Minnesota Department of Transportation
Anoka County
City of Coon Rapids
MAIN STREET/T.H. 242

ORIGINAL COPY 12/21/04

CONSTRUCTION PLAN FOR GRADING, AGGREGATE BASE, BITUMINOUS SURFACING, BITUMINOUS PATH, LANDSCAPING, UTILITY IMPROVEMENTS, STREET LIGHTING AND TRAFFIC SIGNAL IMPROVEMENTS

LOCATED ON: MAIN STREET (CSAH 14) from ROUND LAKE BLVD.(CSAH 9) to TH 10/47 WEST RAMP [Geographic Description]

LOCATED ON: MAIN STREET/TH 242 from TH 10/47 WEST RAMP to COON CREEK [Geographic Description]
and TH 10/47 & TH 242 INTERCHANGE: RAMPS A, B, C & D

LOCATED ON: COON CREEK BLVD. (CSAH 18) BETWEEN 180 m SOUTH OF COON CREEK BRIDGE AND 140 m NORTH OF COON CREEK BRIDGE [Geographic Description]

LOCATED ON: NORTHDALE BOULEVARD BETWEEN 124TH AVE. NW AND 288 m NORTH OF MAIN ST. (CSAH 14) [Geographic Description]

LOCATED ON: 124th AVE. NW BETWEEN NORTHDALE BOULEVARD AND CROOKED LAKE BOULEVARD [Geographic Description]

LOCATED ON: CROOKED LAKE BLVD. BETWEEN 124th AVENUE NW AND 120 m SOUTH OF 123rd AVE. NW [Geographic Description]

BEGIN CONSTRUCTION
242 RAMP C STA. 7+535.458 =
EB TH10/47 STA. 7+530.000

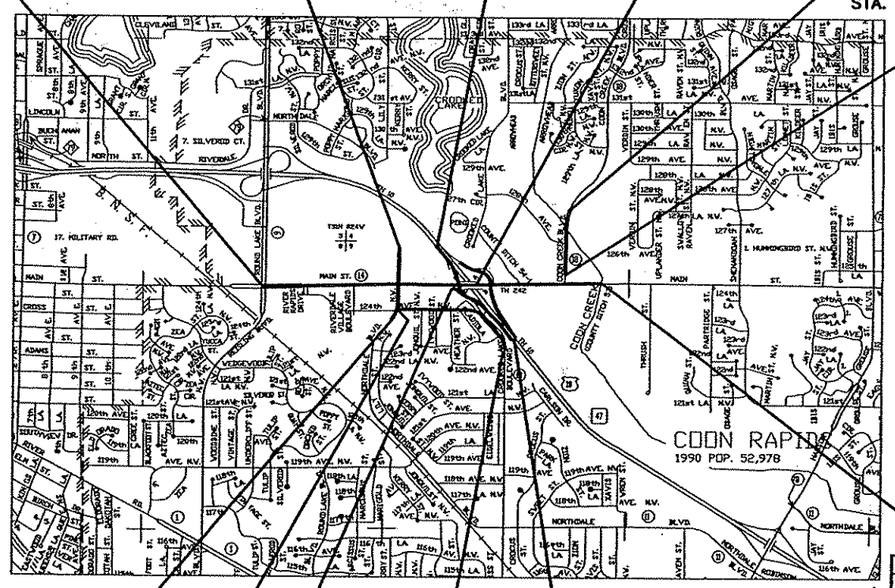
PROPOSED BRIDGE No. 02559
MAIN STREET/TH 242
E.B. STA. 3+351.384 TO STA. 3+426.445

BEGIN S.A.P. No. 02-614-19
BEGIN S.A.P. No. 114-020-19
MAIN STREET (CSAH 14)
STA. 2+007.985

END S.A.P. No. 114-127-02
NORTHDALE BOULEVARD
STA. 1+288.000

END S.A.P. No. 02-618-24
COON CREEK BOULEVARD (CSAH 18)
STA. 1+520.000

BEGIN S.A.P. No. 02-618-24
COON CREEK BOULEVARD (CSAH 18)
STA. 1+200.000



LEGEND

- GV — EXISTING GATE VALVE
- HYD. — EXISTING HYDRANT
- CS — EXISTING CURB BOX
- SAN MH / STM MH — EXISTING MANHOLE, FOR STORM AND SANITARY SEWER
- CB — EXISTING CATCH BASIN
- P,P — EXISTING POWER POLE
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- EXISTING CURB AND GUTTER
- GAS — EXISTING UNDERGROUND GAS MAIN
- TEL — EXISTING UNDERGROUND TELEPHONE LINE
- UGP — EXISTING UNDERGROUND POWER
- OHP — EXISTING OVERHEAD POWER
- EXISTING FENCE
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING STREET SIGN
- 900 — EXISTING CONTOUR
- 900 — PROPOSED CONTOUR
- 23-30-26-11-0070 — PIN NUMBER
- PROPOSED REDUCER
- PROPOSED TEE
- PROPOSED GATE VALVE
- PROPOSED HYDRANT
- MH — PROPOSED MANHOLE, FOR STORM AND SANITARY SEWER
- CB — PROPOSED CATCH BASIN
- PROPOSED WATERMAIN
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED CURB AND GUTTER

BEGIN S.A.P. No. 114-127-02
NORTHDALE BOULEVARD
STA. 0+750.215

BEGIN S.A.P. No. 114-136-02
CROOKED LAKE BLVD. STA. 0+980.255

END S.A.P. No. 02-614-19
END S.A.P. No. 114-020-19
BEGIN S.P. No. 0212-40 (T.H. 242=242)
BEGIN S.P. No. 114-010-11
MAIN STREET (CSAH 14/TH 242)
STA. 3+211.698

END S.A.P. No. 114-136-02
CROOKED LAKE BLVD. STA. 1+890.110

END CONSTRUCTION
242 RAMP D STA. 9+018.138 =
EB TH10/47 STA. 8+996.588

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SEE SHEET 2 of 2 FOR PROJECT LENGTH DATA AND DESIGN DESIGNATION DATA

SCALES IN METERS

INDEX MAP 200 0 400 800 1000

PLAN 5 0 10 20

PROFILE 1 0 2 4

PROJECT LOCATION
ANOKA COUNTY
METRO DIVISION

END S.P. No. 0212-40 (T.H. 242=242)
END S.P. No. 114-010-11
MAIN ST/TH 242 STA. 4+248.576

1 OF 2

	DATE	PLAN REVISONS SHEET NO.	APPROVED BY
1	2/11/00	REVISED: 1,5,6,7,8,22,28,51,53,55,57,62,129,153,172A,	KPK
		183,212,216,217,218,219,221,286,385,387,390	KPK
1	2/11/00	ADDED: 52B,52C,68A,69A,74A,108A-D	KPK
2	2/16/00	REVISED: 1,5,15,22,28,201,217,219,223,229,345	KPK
	5/09/00	MOD.REQ.#19: ADDED 235A & 272A	KPK
	6/30/00	MOD.REQ.#19A: ADDED 272B & 272C	KPK
	7/05/00	MOD.REQ.#36: ADDED 433A, 434A & 435A	KPK
	7/19/00	MOD.REQ.#12: ADDED 297A, 297B, 297C, 297D	KPK
	7/20/00	MOD.REQ.#11: ADDED 20A	KPK
	7/24/00	MOD.REQ.#44A: ADDED 86A,90A-D	KPK
	8/04/00	MOD.REQ.#53: ADDED 42A	KPK
	10/5/00	MOD.REQ.#67: ADDED 87A, 88A	KPK
	11/29/00	MOD.REQ.#71: ADDED A1-A17	KPK
	6/13/01	MOD.REQ.#77: ADDED 112A	KPK
	2/27/04	AS-BUILT DRAWING	TSR

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

MINN. PROJ. NO. ACNH 242-1(100)
MINN. PROJ. NO.

GOVERNING SPECIFICATIONS

THE 1995 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
ALL TRAFFIC CONTROL SIGNING AND DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS DATED JANUARY 1998.

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THIS PLAN SET CONTAINS 659 SHEETS

DC&M GROUP BRW — A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 11/5/99 REG. NO. 23211
ENGINEER Kevin P Kidd

Approved Steven O. Hinton 1/6/00
CITY OF COON RAPIDS ENGINEER

Approved [illegible] 1/6/00
ANOKA COUNTY ENGINEER

Recommended for Approval [illegible] 1/25/00
FOR METRO DIVISION

Recommended for Approval [illegible] 1/26/00
STATE TRAFFIC ENGINEER

Recommended for Approval [illegible] 1/26/00
FOR STATE PRE-LETTING ENGINEER

Office of Land Management Approval [illegible] 1-26-00
DIRECTOR, LAND MANAGEMENT

Approved Delbert W. Tuttle 1-27-2000
STATE DESIGN ENGINEER

[illegible] 1/25/00
METRO-ASSISTANT DIVISION ENGINEER-STATE AID; REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY

For [illegible] 1/26/00
APPROVED FOR STATE AND FEDERAL AID FUNDING; STATE AID ENGINEER

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, OF THIS PLAN WERE MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Steve Wen
DATE 2/27/04 REG. NO. 40545

S.P. No. S.P. 0212-40 (T.H. 242=242), S.A.P. 02-618-24, S.A.P. 02-614-19, S.A.P. 114-127-02, S.P. 114-010-11, S.A.P. 114-020-19, S.A.P. 114-136-02

SHEET NO. 1 OF 539 SHEETS

PLOT DATE: Aug 24, 2... 4:17pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\2421101.o...

Drawings
SAPBOX

MAIN STREET/(CSAH 14)
from ROUND LAKE BOULEVARD (CSAH 9) to TH 10/47 WEST RAMP
STATE AID PROJ. No. 02-614-19 and 114-020-19

GROSS LENGTH 1203.733 m
BRIDGE-LENGTH 0 m
EXCEPTIONS-LENGTH 0 m
NET-LENGTH 1203.733 m

DESIGN DESIGNATION: MAIN STREET/CSAH 14 (S.A.P. No. 02-614-19) (S.A.P. No. 114-020-19)
Functional Classification: MINOR ARTERIAL
No. of Traffic Lanes : 6 **No. of Parking Lanes** = 0
ADT (Current Yr.) 2000 : 44,000-51,000 **Design Speed** 90 km/h
ADT (Future Yr.) 2020 : 52,000-63,000 **Based on** STOPPING **Sight Distance**
DHV (Design Hr. Vol.) : N.A. **Height of eye** 1070 mm **Height of Object** 150 mm
D (Directional Distr.) : 50 % **Design Speed not achieved at:** N.A.
T (Heavy Commercial) : 5.9 % **STA.** N.A. **TO STA.** N.A. **km/h** N.A.
R-Value 60 **20 YR ESALS** 5,100,000 TO 6,056,000 **Design Load** 9.1 **metric ton**

DESIGN DESIGNATION: BIKE PATH - (S.P. No. 02-614-19)
Design Speed 30 **km/h**
Based on STOPPING **Sight Distance**
Height of eye 1400 mm **Height of Object** 0 mm
Design Speed not achieved at: N.A.
STA. N.A. **TO STA.** N.A. **km/h** N.A.

MAIN STREET/T.H. 242
from TH 10/47 WEST RAMPS to COON CREEK
STATE PROJ. No. 0212-40 and 114-010-11

GROSS LENGTH 1036.879 m
BRIDGE-LENGTH 75.061 m
EXCEPTIONS-LENGTH 0 m
NET-LENGTH 1036.879 m

DESIGN DESIGNATION: MAIN STREET/TH 242 - (S.P. No. 0212-40)
Functional Classification: PRINCIPAL ARTERIAL (S.P. No. 114-010-11)
No. of Traffic Lanes : 6 **No. of Parking Lanes** = 0
ADT (Current Yr.) 2000 : 44,000 **Design Speed** 90 km/h
ADT (Future Yr.) 2020 : 53,000 **Based on** STOPPING **Sight Distance**
DHV (Design Hr. Vol.) : N.A. **Height of eye** 1070 mm **Height of Object** 150 mm
D (Directional Distr.) : 50 % **Design Speed not achieved at:** N.A.
T (Heavy Commercial) : 5.9 % **STA.** N.A. **TO STA.** N.A. **km/h** N.A.
R-Value 60 **20 YR ESALS** 5,153,000 **Design Load** 9.1 **metric ton**
Ref. Pt. BEGIN SP 0212-40, MN-242 @ STA. 3+211.698=REF. PT. 2+00.499
(Jct. W. RAMPS US-10). END @ STA. 4+248.576=REF. PT. 3+00.154
Ref. Pt. BEGIN SP 0212-40, US-10 @ STA. 7+530.0 = REF. PT. 226+00.965.
END @ STA. 8+996.588=REF. PT. 227+00.876

DESIGN DESIGNATION: BIKE PATH - (S.P. No. 0212-40)
Design Speed 30 **km/h**
Based on STOPPING **Sight Distance**
Height of eye 1400 mm **Height of Object** 0 mm
Design Speed not achieved at: N.A.
STA. N.A. **TO STA.** N.A. **km/h** N.A.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NORTHDALE BOULEVARD - from 84.849 m SOUTH of 124th AVE. NW to 288 m NORTH of MAIN ST. (CSAH 14)
STATE AID PROJ. No. 114-127-02

GROSS LENGTH 537.785 m
BRIDGE-LENGTH 0 m
EXCEPTIONS-LENGTH 0 m
NET-LENGTH 537.785 m

DESIGN DESIGNATION: NORTHDALE BOULEVARD (S.A.P. 114-127-02)
Functional Classification: COLLECTOR
No. of Traffic Lanes : 4 **No. of Parking Lanes** = 0
ADT (Current Yr.) 2000 : 5,600-37,500 **Design Speed** 70 km/h
ADT (Future Yr.) 2020 : 18,000-40,000 **Based on** STOPPING **Sight Distance**
DHV (Design Hr. Vol.) : N.A. **Height of eye** 1070 mm **Height of Object** 150 mm
D (Directional Distr.) : 50 % **Design Speed not achieved at:** N.A.
T (Heavy Commercial) : 5.9 % **STA.** N.A. **TO STA.** N.A. **km/h** N.A.
R-Value 60 **20 YR ESALS** 1,254,000 to 4,117,000 **Design Load** 9.1 **metric ton**

124th AVE. NW/CROOKED LAKE BOULEVARD (CSAH 18)
from NORTHDALE BLVD. to 120 m SOUTH of 123rd AVENUE NW
STATE AID PROJ. No. 114-136-02

GROSS LENGTH 909.855 m
BRIDGE-LENGTH 0 m
EXCEPTIONS-LENGTH 0 m
NET-LENGTH 909.855 m

DESIGN DESIGNATION: 124th AVE. NW/CROOKED LAKE BOULEVARD (CSAH 18) (S.A.P. 114-020-20)
Functional Classification: LOCAL
No. of Traffic Lanes : 2 **No. of Parking Lanes** = 0
ADT (Current Yr.) 2000 : 5,400-7,200 **Design Speed** 50 km/h
ADT (Future Yr.) 2020 : 9,000 **Based on** STOPPING **Sight Distance**
DHV (Design Hr. Vol.) : N.A. **Height of eye** 1070 mm **Height of Object** 150 mm
D (Directional Distr.) : 50 % **Design Speed not achieved at:** N.A.
T (Heavy Commercial) : 5.9 % **STA.** N.A. **TO STA.** N.A. **km/h** N.A.
R-Value 60 **20 YR ESALS** 850,000 to 956,000 **Design Load** 9.1 **metric ton**

COON CREEK BOULEVARD (CSAH 18)
from 180 m SOUTH of COON CREEK BRIDGE to 140 m NORTH of COON CREEK BRIDGE
STATE AID PROJ. No. 02-618-24

GROSS LENGTH 320.000 m
BRIDGE-LENGTH 39.612 m
EXCEPTIONS-LENGTH 0 m
NET-LENGTH 280.388 m

DESIGN DESIGNATION: COON CREEK BOULEVARD (CSAH 18) (S.A.P. 02-618-24)
Functional Classification: COLLECTOR
No. of Traffic Lanes : 4 **No. of Parking Lanes** = 0
ADT (Current Yr.) 2000 : 21,600 **Design Speed** 70 km/h
ADT (Future Yr.) 2020 : 26,500 **Based on** STOPPING **Sight Distance**
DHV (Design Hr. Vol.) : N.A. **Height of eye** 1070 mm **Height of Object** 150 mm
D (Directional Distr.) : 50 % **Design Speed not achieved at:** N.A.
T (Heavy Commercial) : 5.9 % **STA.** N.A. **TO STA.** N.A. **km/h** N.A.
R-Value 60 **20 YR ESALS** 2,839,000 **Design Load** 9.1 **metric ton**

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED REF. Pts. SP 0212-40 & BIKE PATH DESIGN DATA
			REVISED 124th AVE. BEGIN STA. & LENGTH
			REVISED NET LENGTH FOR SP 0212-40 (TH242=242)
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: 242TTL02
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Sielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
SUPPLEMENTAL TITLE SHEET
DESIGN DATA
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO. 2 / 539

PLOT DATE: Jan 15, J 5:37pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\.ING\242ttl02.dwg

LF DRAWINGS
42_GL
42-ALIW
42E-ALI

BEGIN CONSTRUCTION
EB TH 10/47 STA. 7+530.000
242 RAMP C STA. 7+535.459

PROPOSED BRIDGE No. 02559
MAIN STREET/TH 242
STA. 3+337.689 to
STA. 3+426.445

END S.A.P. No. 02-618-24
COON CREEK BLVD. (CSAH 18)
STA. 1+520.000

BEGIN S.A.P. No. 02-618-24
COON CREEK BLVD. (CSAH 18)
STA. 1+200.000

COON CREEK BOULEVARD

COON CREEK

END S.A.P. No. 02-614-19
END S.A.P. No. 114-020-19
BEGIN S.P. No. 0212-40
BEGIN S.P. No. 114-010-11
MAIN ST. (CSAH 14/TH 242)
B/L STA. 3+211.698

BEGIN S.A.P. No. 02-614-19
BEGIN S.A.P. No. 114-020-19
MAIN STREET (CSAH 14)
B/L STA. 2+007.965

MAIN STREET
(CSAH 14) BASELINE

RAMP A
RAMP B
RAMP C
RAMP D

BY OTHERS
BY OTHERS
BY OTHERS

MAIN STREET/TH 242 BASELINE

END S.P. No. 0212-40
END S.P. No. 114-010-11
MAIN STREET/TH 242
B/L STA. 4+248.576

ACCESS ROAD (BY OTHERS)

END S.A.P. No. 114-127-02
NORTHDALE BOULEVARD
STA. 1+288.000

NORTHDALE BOULEVARD CONSTRUCTION C/L
MAIN STREET (CSAH 14/TH 242) BASELINE

RIVER RAPIDS DRIVE
RIVERDALE VILLAGE BLVD.
124th AVENUE NW
LEG D1
CROOKED LAKE BLVD
TH 10/47

BEGIN S.A.P. No. 114-136-02
124th AVE./CROOKED LAKE BLVD.
STA. 0+980.255

BEGIN S.A.P. No. 114-127-02
NORTHDALE BOULEVARD
STA. 0+750.215

END S.A.P. No. 114-136-02
124th AVE./CROOKED LAKE BLVD.
STA. 1+890.110

END CONSTRUCTION
EB TH 10/47 STA. 8+996.588
242 RAMP D STA. 9+018.139

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LEGEND

(000) EXISTING TOPOGRAPHY, UTILITIES and REMOVALS

[000] PLANNED CONSTRUCTION

50 0 100 200
HORIZONTAL SCALE IN METERS

1 OF 1

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED 124th AVE/CROOKED LAKE BLVD. BEGIN STA.
			RENUMBERED SHEETS PER MN/DOT COMMENTS AND
			PLAN CHANGES
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242GLO
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.15
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
GENERAL LAYOUT
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 3 / 539

PLOT DATE: Dec 28, ...99 11:31am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\42glo.dwg

STATEMENT OF ESTIMATED QUANTITES

TAB	NOTE	ITEM NO.	ITEM	UNITS	TOTAL QUANTITIES	MAIN STREET (C.S.A.H. 14) (S.A.P. 02-614-19) (S.A.P. 114-020-19)		STORM SEWER	LAND-SCAPING	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE) (S.P. 0212-40) (S.P. 114-010-11)		COON CREEK BOULEVARD (CSAH 18) (S.A.P. 02-618-24)		NORTHDALE BOULEVARD (S.A.P. 114-127-02)		CROOKED LAKE BLVD AND 124TH AVENUE (S.A.P. 114-136-02)	
						ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	ESTIMATED QUANTITIES	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING
		2015.601	COMPUTER EQUIPMENT	LS	1	0.18	0.01	0.11	0.09	0.51	0.00	0.02	0.00	0.04	0.00	0.04	0.00
		2021.501	MOBILIZATION	LS	1	0.18	0.01	0.11	0.09	0.51	0.00	0.02	0.00	0.04	0.00	0.04	0.00
		2031.501	FIELD OFFICE TYPE D-MODIFIED	EACH	1	0.18	0.01	0.11	0.09	0.51	0.00	0.02	0.00	0.04	0.00	0.04	0.00
		2031.503	FIELD LABORATORY TYPE DX	EACH	1	0.18	0.01	0.11	0.09	0.51	0.00	0.02	0.00	0.04	0.00	0.04	0.00
		2041.610	TRAINEES	HR	3000	1500				1500							
A		2101.501	CLEARING	ha	1.5	0.1				0.8				0.5		0.1	
A		2101.502	CLEARING	TREE	201	49				50				19		83	
A		2101.506	GRUBBING	ha	1.5	0.1				0.8				0.5		0.1	
A		2101.507	GRUBBING	TREE	201	49				50				19		83	
		2102.501	PAVEMENT MARKING REMOVAL - TEMPORARY	m^2	100	60				40							
		2102.502	PAVEMENT MARKING REMOVAL - TEMPORARY	m	3200	1050				1500		200				150	
		2102.502	PAVEMENT MARKING REMOVAL	m	7176	1080				3096							
	2	2103.501	BUILDING REMOVAL (A)	LS	1											1	
	3	2103.501	BUILDING REMOVAL (B)	LS	1											1	
	4	2103.501	BUILDING REMOVAL (C)	LS	1											1	
I		2104.501	REMOVE BITUMINOUS CURB	m	1204	338.0				139		13		24.0		572.0	
D		2104.501	REMOVE CHAIN LINK FENCE	m	59											59	
D		2104.501	REMOVE WOOD FENCE	m	153											153	
J		2104.501	REMOVE PIPE CULVERTS	m	315	47				242						26	
H		2104.501	REMOVE CURB AND GUTTER	m	4105	166				1960		506		543		930	
K		2104.501	REMOVE FORCE MAIN	m	386	121				58						207	
G		2104.501	REMOVE GUARD RAIL -PLATE BEAM	m	327					327							
G2		2104.501	REMOVE WATER MAIN	m	252	8								4		240	
K		2104.501	REMOVE SEWER PIPE (SANITARY)	m	300											300	
J		2104.501	REMOVE SEWER PIPE (STORM)	m	312	135				45		91		23		18	
K, G2		2104.501	REMOVE STEEL CASING	m	458	121				130						207	
G2		2104.501	REMOVE PVC SPRINKLER PIPES	m	20	20											
I	15	2104.503	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	m^2	1604	1035						52				517	
I	15, 20	2104.503	REMOVE BITUMINOUS PAVEMENT	m^2	75691	34214				23909		4862		4035		8671	
I	15	2104.503	REMOVE BITUMINOUS SHOULDER PAVEMENT	m^2	6893	884				20		649					
I	15	2104.503	REMOVE BITUMINOUS WALK	m^2	181											181	
H		2104.503	REMOVE CONCRETE APPROACH PANEL	m^2	265							265					
H		2104.503	REMOVE CONCRETE DRIVEWAY PAVEMENT	m^2	887											887	
H		2104.503	REMOVE CONCRETE MEDIAN	m^2	884	50				248		169		417			
H		2104.503	REMOVE CONCRETE NOSE	m^2	164					164							
H		2104.503	REMOVE CONCRETE PAVEMENT	m^3	27											27	
H		2104.503	REMOVE CONCRETE WALK	m^2	726	2						223		290		191	
H		2104.503	REMOVE CONCRETE SLOPE PAVING	m^2	426					426							
J		2104.509	REMOVE CATCH BASIN	EACH	17	5				5		3		1		3	
G	21	2104.509	REMOVE TWISTED END TREATMENT	EACH								2					
G		2104.509	REMOVE IMPACT ATTENUATOR	EACH	6					6							
F		2104.509	REMOVE LIGHT STANDARD AND LUMINAIRE	EACH	12	7								1		4	
S		2104.509	REMOVE LIGHTING UNIT	EACH	19					19							
S		2104.509	REMOVE LIGHT STANDARD BASE	EACH	19					19							
J		2104.509	REMOVE PIPE APRON	EACH	44	6				32						6	
K		2104.509	REMOVE MANHOLE	EACH	3											3	
K		2104.509	REMOVE LIFT STATION	EACH	1	1											
B		2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)	m	35	6				3		3		2		21	
B		2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	m	1858	312				1265		51				91	
D		2104.521	SALVAGE CHAIN LINK FENCE	m	180							180					
G		2104.521	SALVAGE GUARD RAIL -PLATE BEAM	m	212							212					
		2104.523	SALVAGE DELINEATOR	EACH	45					36		4		1		4	
E		2104.523	SALVAGE HYDRANT AND VALVE	EACH	8	4								1		3	
S		2104.523	SALVAGE SERVICE CABINET	EACH	1					1							
		2104.523	SALVAGE SIGN TYPE C	EACH	162	49				56		25		14		18	
		2104.523	SALVAGE SIGN TYPE D	EACH	20	5				13		1				1	
G	21	2104.523	SALVAGE TWISTED END TREATMENT	EACH	2							2					
		2104.601	ASBESTOS EVALUATION	LS	1											1	
		2104.601	REMOVE COOLING SYSTEM	LS	1											1	
	17	2104.601	HAUL SALVAGED MATERIAL	LS	1	0.42				0.50				0.08			
J		2104.603	ABANDON STORM SEWER	m	41	41											
P		2105.501	COMMON EXCAVATION (P)	m3	218542	85412				109377		696		18595		4462	

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	REVISED QUANTITIES PER MN/DOT COMMENTS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JJL | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: SEQTAB1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / TH 242
STATEMENT OF ESTIMATED QUANTITIES
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 4 / 539

PLOT DATE: Aug 2, 04 4:46pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SEQTAB1.dwg

APBOX

STATEMENT OF ESTIMATED QUANTITES

TAB	NOTE	ITEM NO.	ITEM	UNITS	TOTAL QUANTITIES	MAIN STREET (C.S.A.H. 14) (S.A.P. 02-614-19) (S.A.P. 114-020-19) ESTIMATED QUANTITIES	MAIN STREET (C.S.A.H. 14) NON-PARTICIPATING	STORM SEWER ESTIMATED QUANTITIES	LAND-SCAPING ESTIMATED QUANTITIES	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE) (S.P. 0212-40) (S.P. 114-010-11) ESTIMATED QUANTITIES	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE) NON-PARTICIPATING	COON CREEK BOULEVARD (CSAH 18) (S.A.P. 02-618-24) ESTIMATED QUANTITIES	COON CREEK BOULEVARD (CSAH 18) NON-PARTICIPATING	NORTHDALE BOULEVARD (S.A.P. 114-127-02) ESTIMATED QUANTITIES	NORTHDALE BOULEVARD NON-PARTICIPATING	CROOKED LAKE BLVD AND 124TH AVENUE (S.A.P. 114-136-02) ESTIMATED QUANTITIES	CROOKED LAKE BLVD AND 124TH AVENUE NON-PARTICIPATING
P		2105.505	MUCK EXCAVATION	m3	163427					163427							
P		2105.507	SUBGRADE EXCAVATION (P)	m3	18873	14024				4849							
P		2105.521	GRANULAR BORROW (CV) (P)	m3	857							857					
P		2105.521	GRANULAR BORROW (LV)	m3	31842	2588				29254							
P		2105.522	SELECT GRANULAR BORROW (CV) (P)	m3	42895	16706				26102		87					
P		2105.522	SELECT GRANULAR BORROW MOD 5% (P)	m3	216534					216534							
P		2105.535	SALVAGED TOPSOIL (EV) (P)	m3	27932	3492				21541		515		949		1435	
P		2105.607	TOPSOIL PLACEMENT (LV)	m3	32230	4029				24855		595		1095		1656	
P		2105.607	WOOD CHIPS (LV)	m3	9969					9969							
	19	2211.501	AGGREGATE BASE CLASS 5	m3	5215	2869.0				2346							
N, O		2211.503	AGGREGATE BASE (CV) CLASS 5 (P)	m3	32334	12279				14274		1567		2697		1517	
E		2232.501	MILL BITUMINOUS SURFACE (25 mm)	m²	2865					2865							
B		2232.501	MILL BITUMINOUS SURFACE (50 mm)	m²	4990	187				747		918		83		55	
		2301.553	BRIDGE APPROACH PANELS A (P)	m²	1380					1380							
		2301.553	BRIDGE APPROACH PANELS B (P)	m²	(1) 535							(1) 535					
	19	2350.604	TYPE LV 3 NON-WEAR COURSE MIX 50 mm THICK (1)	m²	8220	4547				3673							
	19	2350.604	TYPE LV 3 NON-WEAR COURSE MIX 100 mm THICK (1)	m²	8220					3673							
O		2350.609	TYPE MV 3 WEARING COURSE MIXTURE	T	1333					629				704			
O		2350.609	TYPE MV 3 NON-WEARING COURSE MIXTURE	T	(2) 2877					943		615		1319			
O		2350.609	TYPE LV 3 WEARING COURSE MIXTURE	T	(2) 2097	333				644		124				996	
O		2350.609	TYPE LV 3 NON-WEARING COURSE MIXTURE (2)	T	(2) 2993	501				289				784		1419	
O		2350.609	TYPE HV 3 WEARING COURSE MIXTURE	T	1275							792		483			
O		2350.609	TYPE HV 3 NON-WEARING COURSE MIXTURE (2)	T	(2) 1584							800		784			
O		2357.502	BITUMINOUS MATERIAL FOR TACK COAT	L	58793	23636				26772		2409		4084		1892	
O		2360.609	TYPE SP 12.5 WEARING COURSE MIX (4,F)	T	23015	11127				11888							
O		2360.609	TYPE SP 19.0 NON-WEAR COURSE MIX (4,B)	T	17261	8345				8916							
		2411.604	MODULAR BLOCK RETAINING WALL	m²	559	432				127							
		2433.604	SEAL OVERLAY CRACKS	m2	878							878					
		2451.607	TRENCH STABILIZATION MATERIAL (CV)	m3	700	500				100					100		
	19	2501.511	600 mm CS PIPE CULVERT	m	20.0					20.0							
	19	2501.515	600 mm GS PIPE APRON	EACH	2					2							
Z	6	2501.515	375 mm RC PIPE APRON	EACH	7			5		2							
Z	6	2501.515	525 mm RC PIPE APRON	EACH	5			5									
Z	6	2501.515	600 mm RC PIPE APRON	EACH	1			1									
Z	6	2501.515	900 mm RC PIPE APRON	EACH	8			6		2							
Z	6	2501.515	1500 mm RC PIPE APRON	EACH	1			1									
Z	5	2501.525	560 mm SPAN RC PIPE - ARCH APRON	EACH	1			1									
Z	5	2501.525	1485 mm SPAN RC PIPE - ARCH APRON	EACH	4			0		4							
Z		2501.567	560 mm SPAN RC SAFETY APR & GR DES 3126	EACH	1			1									
Z	18	2501.569	600 mm RC SAFETY APRON	EACH	4			0		4							
Z		2501.602	TRASH GUARD FOR 375 mm APRON	EACH	7			5		2							
Z		2501.602	TRASH GUARD FOR 525 mm APRON	EACH	5			5									
Z		2501.602	TRASH GUARD FOR 600 mm APRON	EACH	1			1									
Z		2501.602	TRASH GUARD FOR 900 mm APRON	EACH	8			6		2							
Z		2501.602	TRASH GUARD FOR 1500 mm APRON	EACH	1			1									
Z		2501.602	TRASH GUARD FOR 560 mm SPAN PIPE APRON	EACH	1			1									
Z		2501.602	TRASH GUARD FOR 1485 mm SPAN PIPE APRON	EACH	4			0		4							
		2502.541	100 mm PERF PVC PIPE DRAIN	m	540.0			540.0									
Z		2503.521	560 mm SPAN RC PIPE-ARCH SEWER CL IIA	m	159.7			159.7									
Z		2503.521	1485 mm SPAN RC PIPE-ARCH CULV CLASS IIA (1)	m	157.2			0.0		157.2							
Z	1	2503.541	375 mm RC PIPE SEWER DES 3006 CL III	m	(1) 2169.4			(1) 2100.6				68.8					
Z	1	2503.541	375 mm RC PIPE SEWER DES 3006 CL IV	m	44.2			44.2									
Z		2503.541	375 mm RC PIPE SEWER DES 3006 CL V	m	60.0			0.0		60.0							
Z		2503.541	450 mm RC PIPE SEWER DES 3006	m	277.2			219.7				57.5					
Z		2503.541	450 mm RC PIPE SEWER DES 3006 CL III	m	69.0			69.0									

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	REVISED QUANTITIES PER MN/DOT COMMENTS
2	JJL	2/11/00	ADDEND (1) MODIFIED QUANTITIES, REVISED PIPE CLASS
3	JJL	2/16/00	ADDEND (2) MODIFIED MIX DESIGNS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JJL | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: SEQTAB2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE 700 THIRD STREET SOUTH MINNEAPOLIS, MN 55415 (612)370-0700 (TEL) (612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / TH 242
STATEMENT OF ESTIMATED QUANTITIES
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO. 5 / 539

PLOT DATE: Aug 25, 4 4:48pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SEQ Jwg

APBOX

STATEMENT OF ESTIMATED QUANTITES

TAB	NOTE	ITEM NO.	ITEM	UNITS	TOTAL QUANTITIES	MAIN STREET (C.S.A.H. 14) (S.A.P. 02-614-19) (S.A.P. 114-020-19) ESTIMATED QUANTITIES	MAIN STREET (C.S.A.H. 14) (S.A.P. 02-614-19) (S.A.P. 114-020-19) NON-PARTICIPATING	STORM SEWER ESTIMATED QUANTITIES	LAND-SCAPING ESTIMATED QUANTITIES	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE) (S.P. 0212-40) (S.P. 114-010-11) ESTIMATED QUANTITIES	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE) (S.P. 0212-40) (S.P. 114-010-11) NON-PARTICIPATING	COON CREEK BOULEVARD (CSAH 18) (S.A.P. 02-618-24) ESTIMATED QUANTITIES	COON CREEK BOULEVARD (CSAH 18) (S.A.P. 02-618-24) NON-PARTICIPATING	NORTHDALE BOULEVARD (S.A.P. 114-127-02) ESTIMATED QUANTITIES	NORTHDALE BOULEVARD (S.A.P. 114-127-02) NON-PARTICIPATING	CROOKED LAKE BLVD AND 124TH AVENUE (S.A.P. 114-136-02) ESTIMATED QUANTITIES	CROOKED LAKE BLVD AND 124TH AVENUE (S.A.P. 114-136-02) NON-PARTICIPATING
Z		2503.541	450 mm RC PIPE SEWER DES 3006 CL IV	m	23.9			23.9									
Z		2503.541	450 mm RC PIPE SEWER DES 3006 CL	m	42.2			42.2									
Z		2503.541	525 mm RC PIPE SEWER DES 3006	m	1 201.3			1 201.3									
Z		2503.541	525 mm RC PIPE SEWER DES 3006 CL IV	m	10.9			10.9									
Z		2503.541	600 mm RC PIPE SEWER DES 3006 CL III	m	85.4			12.8		72.6							
Z		2503.541	600 mm RC PIPE SEWER DES 3006 CL IV	m	1 89.5			1 89.5									
Z		2503.541	750 mm RC PIPE SEWER DES 3006	m	1 84.3			1 84.3									
Z		2503.541	750 mm RC PIPE SEWER DES 3006 CL IV	m	1 128.1			1 128.1									
Z		2503.541	900 mm RC PIPE SEWER DES 3006	m	162.9			0.0		162.9							
Z		2503.541	900 mm RC PIPE SEWER DES 3006 CL III	m	56.1			56.1									
Z		2503.541	900 mm RC PIPE SEWER DES 3006 CL IV	m	251.4			212.0		39.4							
Z		2503.541	900 mm RC PIPE SEWER DES 3006 CL V	m	51.2			51.2									
Z		2503.541	1050 mm RC PIPE SEWER DES 3006	m	46.0			46.0									
Z		2503.541	1050 mm RC PIPE SEWER DES 3006 CL III	m	51.0			51.0									
Z		2503.541	1200 mm RC PIPE SEWER DES 3006	m	243.1			243.1									
Z		2503.541	1200 mm RC PIPE SEWER DES 3006 CL III	m	167.1			167.1									
Z		2503.541	1350 mm RC PIPE SEWER DES 3006 CL III	m	181.0			181.0									
Z		2503.541	1350 mm RC PIPE SEWER DES 3006 CL IV	m	181.1			181.1									
Z		2503.541	1500 mm RC PIPE SEWER DES 3006 CL IV	m	131.0			131.0									
Z		2503.541	1500 mm RC PIPE SEWER DES 3006 CL V	m	479.5			479.5									
Z		2503.541	1500 mm RCP SEWER DES 3006 CL IV-JACKED	m	56.7			56.7									
T		2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	3		3										
Z		2503.602	CONNECT TO EXISTING STORM SEWER	EACH	7							1					
T		2503.603	200 mm PVC PIPE SEWER	m	5.0		5.0										
T		2503.603	250 mm PVC PIPE SEWER	m	486.7		486.7										
		2504.601	IRRIGATION SYSTEM	LS	1				1								
Q		2504.602	CONNECT TO EXISTING WATER MAIN	EACH	16	3	4						1	1		7	
Q		2504.602	INSTALL HYDRANT AND VALVE	EACH	7	3								1		2	
Q		2504.602	HYDRANT	EACH	1								1				
Q		2504.602	150 mm PIPE PLUG	EACH	2	2											
Q		2504.602	200 mm PIPE PLUG	EACH	2		1						1				
Q		2504.602	400 mm PIPE PLUG	EACH	2		2										
Q		2504.602	150 mm GATE VALVE AND BOX	EACH	2		1						1				
Q		2504.602	200 mm GATE VALVE AND BOX	EACH	1		1										
Q		2504.602	400 mm BUTTERFLY VALVE	EACH	1		1										
Q		2504.602	450 mm BUTTERFLY VALVE	EACH	1											1	
Q		2504.602	200 mm x 150 mm REDUCER	EACH	1								1				
Q		2504.602	300 mm x 200 mm REDUCER	EACH	1								1				
Q		2504.602	200 mm x 200 mm TEE FITTING	EACH	1								1				
Q		2504.602	400 mm x 150 mm TEE FITTING	EACH	1		1										
Q		2504.602	400 mm x 400 mm TEE FITTING	EACH	1		1										
Q		2504.602	450 mm x 150 mm TEE FITTING	EACH	1											1	
Q		2504.602	150 mm DIP BEND - 45	EACH	1											1	
Q		2504.602	150 mm DIP BEND - 90	EACH	1									1			
Q		2504.602	300 mm DIP BEND - 45	EACH	2								2				
Q		2504.602	400 mm DIP BEND - 45	EACH	2		2										
Q		2504.602	450 mm DIP BEND - 11 1/4	EACH	4											4	
Q		2504.602	450 mm DIP BEND - 22 1/2	EACH	1											1	
Q		2504.602	450 mm DIP BEND - 45	EACH	2											2	
Q		2504.603	150 mm WATERMAIN DUCTILE IRON CL	m	74.5	37.9	8.0						2.0	4.0		22.6	
Q		2504.603	200 mm WATERMAIN DUCTILE IRON CL 52	m	97.0		10.0						87.0				
Q		2504.603	300 mm WATERMAIN DUCTILE IRON CL 52	m	88.0								88.0				
Q		2504.603	400 mm WATERMAIN DUCTILE IRON CL 52	m	108.2		108.2										
Q		2504.603	450 mm WATERMAIN DUCTILE IRON CL 52	m	224.7											224.7	
Q, T		2504.603	400 mm STEEL CASING PIPE	m	70.0								10.0		60.0		
Q		2504.603	750 mm STEEL CASING PIPE	m	67.3								67.3				
Q		2504.604	75 mm POLYSTYRENE INSULATION	m^2	111		12						63			36	
Z		2506.501	CONST. DRAINAGE STRUCTURE DES 1200mm 4020	m	1 278.1			1 267.0				11.1					
Z		2506.501	CONST. DRAINAGE STRUCTURE DES 1350mm 4020	m	1 42.4			1 34.7		7.7							
Z		2506.501	CONST. DRAINAGE STRUCTURE DES 1500mm 4020	m	4.9			4.9									
Z		2506.501	CONST. DRAINAGE STRUCTURE DES 1800mm 4020	m	29.3			29.3									
Z		2506.501	CONST. DRAINAGE STRUCTURE DES 1950mm 4020	m	28.2			28.2									
Z		2506.501	CONST. DRAINAGE STRUCTURE DES 2100mm 4020	m	19.7			19.7									
Z		2506.501	CONST. DRAINAGE STRUCTURE DES 2400mm 4020	m	8.4			8.4									
Z		2506.516	CASTING ASSEMBLY	EACH	217		6	203				8					
T, Z		2506.522	ADJUST FRAME AND RING CASTING	EACH	3			3									
T		2506.603	CONSTRUCT SANITARY MANHOLES	m	27.6		27.6										

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED QUANTITIES PER MN/DOT COMMENTS
2	JJL	2/11/00	ADDEND 1 MODIFIED QUANTITIES
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JJL | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: SEQTAB3
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DEM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / TH 242
STATEMENT OF ESTIMATED QUANTITIES
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 6 / 539

PLOT DATE: Aug 25, J4 4:57pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SEQ...dwg

APBOX

STATEMENT OF ESTIMATED QUANTITES

TAB	NOTE	ITEM NO.	ITEM	UNITS	TOTAL QUANTITIES	MAIN STREET (C.S.A.H. 14) (S.A.P. 02-614-19) (S.A.P. 114-020-19) ESTIMATED QUANTITIES	MAIN STREET (C.S.A.H. 14) NON-PARTICIPATING	STORM SEWER ESTIMATED QUANTITIES	LAND-SCAPING ESTIMATED QUANTITIES	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE) (S.P. 0212-40) (S.P. 114-010-11) ESTIMATED QUANTITIES	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE) NON-PARTICIPATING	COON CREEK BOULEVARD (CSAH 18) (S.A.P. 02-618-24) ESTIMATED QUANTITIES	COON CREEK BOULEVARD (CSAH 18) NON-PARTICIPATING	NORTHDALE BOULEVARD (S.A.P. 114-127-02) ESTIMATED QUANTITIES	NORTHDALE BOULEVARD NON-PARTICIPATING	CROOKED LAKE BLVD AND 124TH AVENUE (S.A.P. 114-136-02) ESTIMATED QUANTITIES	CROOKED LAKE BLVD AND 124TH AVENUE NON-PARTICIPATING
Z		2511.501	RANDOM RIPRAP CLASS III	m^3	277.5			189.1		88.4							
Z		2511.515	GEOTEXTILE FILTER TYPE IV	m^2	597			384		213							
		2511.515	GEOTEXTILE FILTER TYPE V	m^2	164					164							
N		2521.501	100 mm CONCRETE WALK	m^2	8761	1918.0				1769.0		1382		2244		1448	
N		2521.501	100 mm CONCRETE WALK SPECIAL 1	m^2	1223				1223								
N		2521.501	100 mm CONCRETE WALK SPECIAL 2	m^2	5664				5664								
N		2521.603	SPECIAL WALK	m	1523				1523								
L	7	2531.501	CONCRETE CURB AND GUTTER DESIGN SPECIAL	m	26												
		2531.501	CONCRETE CURB AND GUTTER DESIGN B418 /1	m	/1 23							/1 23				26	
L		2531.501	CONCRETE CURB AND GUTTER DESIGN B424 (MOD)	m	8117	4505				361							
L		2531.501	CONCRETE CURB AND GUTTER DESIGN B618 (MOD)	m	807	123								684			
L		2531.501	CONCRETE CURB AND GUTTER DESIGN B618	m	92	92				64		500		872		1207	
L		2531.501	CONCRETE CURB AND GUTTER DESIGN B612	m	525	494				31							
L		2531.501	CONCRETE CURB AND GUTTER DESIGN D424	m	479					479							
N		2531.507	150 mm CONCRETE DRIVEWAY PVMT	m^2	171					0							
N	22	2531.507	200 mm CONCRETE DRIVEWAY PVMT	m^2	286									45		126	
M		2531.602	PEDESTRIAN CURB RAMP	EACH	68					23		3		286			
		2531.602	CONCRETE MEDIAN NOSE DESIGN 7109	EACH	1							1		9		10	
		2531.602	CONCRETE ENTRANCE NOSE DESIGN 7113	EACH	22	9				12		1					
	23	2533.603	CONRETE MEDIAN BARRIER DESIGN B337	m	/1 2930	820				/1 2110							
		2533.603	RELOCATE CONRETE MEDIAN BARRIER	m	1630	820				810							
	11	2540.602	COMMUNITY ENTRANCE MONUMENT	EACH	9				9								
C		2540.602	RELOCATE MAIL BOX	EACH	3												
	12	2540.603	LANDSCAPE EDGER	m	1290				1290							3	
K		2545.511	LIGHTING UNIT, TYPE 1X-9	EACH	21					21							
S		2545.511	LIGHTING UNIT, TYPE 3-12	EACH	2					2							
S		2545.511	LIGHTING UNIT, TYPE 4-12	EACH	12					12							
		2545.511	LIGHTING UNIT, TYPE SPECIAL	EACH	60				60								
		2545.511	LIGHTING UNIT, TYPE SPECIAL 1	EACH	6												
		2545.511	LIGHTING UNIT, TYPE SPECIAL 2	EACH	9				9								
		2545.513	LUMINAIRE 250 W (HPS)	EACH	8					8							
R,S		2545.515	LIGHT BASE DESIGN E	EACH	35					35							
		2545.515	LIGHT BASE, DESIGN SPECIAL	EACH	60		55			5							
		2545.521	53 mm RIGID STEEL CONDUIT	m	305		90			5							
S		2545.521	78 mm RIGID STEEL CONDUIT	m	89		35			5							
S		2545.521	78 mm RIGID STEEL CONDUIT (PUSHED)	m	56					56							
		2545.523	27 mm NON-METALLIC CONDUIT	m	540		540										
		2545.523	53 mm NON-METALLIC CONDUIT	m	2920		1880			1040							
		2545.531	UNDERGROUND WIRE 1 COND NO 2	m	45					45							
		2545.531	UNDERGROUND WIRE 1 COND NO 3/0	m	50		50										
S		2545.531	ARMORED CABLE 3 COND NO 4	m	1729					1729							
		2545.531	UNDERGROUND WIRE 1 COND NO 6	m	12707		7887			4820							
		2545.531	UNDERGROUND WIRE 1 COND NO 8	m	6950		6950										
		2545.537	OVERHEAD LIGHT CABLE, 4 COND. NO 4	m	400					400							
S		2545.541	SERVICE CABINET SECONDARY, TYPE L1	EACH	3					3							
		2545.541	SERVICE CABINET SECONDARY, TYPE L2	EACH	2	2											
S		2545.545	EQUIPMENT PAD B	EACH	5	2				3							
		2545.553	PULL BOX (LIGHTING)	EACH	23	14				9							
	16	2545.602	GFI RECEPTACLE	EACH	88				88								
		2545.602	MAST ARM	EACH	8					8							
		2545.602	INSTALL WOOD POLE	EACH	8					8							
AF		2550.511	PEDESTAL FOUNDATION	EACH	1					1							
AF		2550.512	HANDHOLE TYPE-PVC CONCRETE COVER	EACH	8					8							
AF		2550.512	HANDHOLE TYPE-PVC METAL COVER	EACH	1					1							
AF		2550.523	53 mm NON-METALLIC CONDUIT	m	5					5							
AF		2550.523	78 mm NON-METALLIC CONDUIT	m	100					100							
AF		2550.602	LOOP DETECTOR DESIGN PREFORMED	EACH	5					5							
		2554.501	TRAFFIC BARRIER DESIGN B8307	m	186					186							
		2554.501	TRAFFIC BARRIER DESIGN SPECIAL /1	m	/1 23							/1 23					
		2554.505	PERMANENT BARRICADES	m	102					80				22			
		2554.509	GUIDE POST TYPE B	EACH	27			19		8							
		2554.511	INSTALL TRAFFIC BARRIER DESIGN B8307	m	212							212					
		2554.523	END TREATMENT - ECCENTRIC LOADER BCT	EACH	1							1					

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	REVISED QUANTITIES PER MN/DOT COMMENTS
2	JJL	2/11/00	ADDEND./1 ADDED B418 C&G, MODIFIED QUANTITIES, /1 ADDED TRAFFIC BARRIER DESIGN SPECIAL
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JJL | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: SEQTAB4
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / TH 242
STATEMENT OF ESTIMATED QUANTITIES
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 7 / 539

PLOT DATE: Aug 25, 04 4:49pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SEQ...dwg

STATEMENT OF ESTIMATED QUANTITES

TAB	NOTE	ITEM NO.	ITEM	UNITS	TOTAL QUANTITIES	MAIN STREET (C.S.A.H. 14) (S.A.P. 02-614-19) (S.A.P. 114-020-19)		STORM SEWER	LAND-SCAPING	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE) (S.P. 0212-40) (S.P. 114-010-11)		COON CREEK BOULEVARD (CSAH 18) (S.A.P. 02-618-24)		NORTHDALE BOULEVARD (S.A.P. 114-127-02)		CROOKED LAKE BLVD AND 124TH AVENUE (S.A.P. 114-136-02)	
						ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	ESTIMATED QUANTITIES	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING
	13	2554.523	END TREATMENT - ENERGY ABSORBING TERMINAL	EACH	2					2							
	14	2554.602	ENERGY ABSORBING TERMINAL	EACH	1							1					
		2554.602	INSTALL TWISTED END TREATMENT	EACH	2							2					
		2554.602	IMPACT ATTENUATOR BARRELS	EACH	150	47				103							
		2554.602	RELOCATE IMPACT ATTENUATOR BARRELS	EACH	97	47				50							
		2557.603	INSTALL CHAIN LINK FENCE	m	180							180					
		2557.603	ORNAMENTAL FENCE DESIGN SPECIAL A	m	180				180								
		2563.601	TRAFFIC CONTROL	LS	1	0.18	0.01	0.11	0.09	1	0.00	0.02	0.00	0.04	0.00	0.04	0.00
		2563.602	MEDIAN BARRIER DELINEATOR	EACH	[illegible]	120				165							
		2563.604	CONSTRUCTION SIGNS-SPECIAL	m^2	1 907	18.2				1 72.5							
AB		2564.531	SIGN PANELS TYPE C	m^2	175.6	62.2				59.7		9.7		28.0		16.0	
AC		2564.531	SIGN PANELS TYPE D	m^2	48.7	[illegible]6				39.1							
AE		2564.537	INSTALL SIGN TYPE SPECIAL	EACH	4							1				3	
AE		2564.537	INSTALL SIGN TYPE D	EACH	5	1				3		1					
AD		2564.550	DELINEATOR TYPE (X4-6)	EACH	16					16							
AD		2564.602	HAZARD MARKER (X4-2)	EACH	39	14				16		3		6			
AD		2564.602	CLEARANCE MARKER (X4-4)	EACH	10	1				2		4		3			
AD		2564.602	SNOW PLOW MARKER (X4-5)	EACH	4							4					
AA		2564.602	PAVEMENT MESSAGE (LT ARROW) POLY PREFORM	EACH	94	39				27		2		15		11	
AA		2564.602	PAVEMENT MESSAGE (RT ARROW) POLY PREFORM	EACH	50	24				20		2		4			
AA		2564.602	PAVEMENT MESSAGE (LT-THRU ARROW) POLY PREF	EACH	7	1				6							
AA		2564.602	PAVEMENT MESSAGE (RT-THRU ARROW) POLY PREF	EACH	4	2										2	
AA		2564.602	PAVEMENT MESSAGE (HOV DIAMOND) POLY PREFORM	EACH	2					2							
		2564.602	INTERNALLY LIT SIGN TYPE D	EACH	18				18								
AA		2564.603	100 mm SOLID LINE WHITE-PAINT	m	17994	5792				7574		878		1905		1845	
AA		2564.603	200 mm SOLID LINE WHITE-PAINT	m	1174	124				1050							
AA		2564.603	100 mm BROKEN LINE WHITE-PAINT	m	2492	1732				547		39		174			
AA		2564.603	100 mm SOLID LINE YELLOW-PAINT	m	7792	2740				3692		186		694		480	
AA		2564.603	100 mm DOUBLE SOLID LINE YELLOW-PAINT	m	1611					146		309		512		644	
AA		2564.603	600 mm STOP LINE WHITE-POLY PREFORMED	m	383	236				61		6		71		9	
AA		2564.603	600 mm SOLID LINE WHITE-PAINT	m	9					9							
AA		2564.603	600 mm SOLID LINE YELLOW-PAINT	m	132							12		100		20	
AA		2564.603	100 mm BROKEN LINE YELLOW-PAINT	m	96											96	
AA		2564.603	200 mm DOTTED LINE WHITE-PAINT	m	269	98				158		13					
AA		2564.604	ZEBRA CROSSWALK - WHITE POLY PREFORMED	m^2	643	[illegible]				184		10		131		12	
		2565.511	FULL T ACT T CONTROL SIGNAL SYSTEM B	SIG SYS	1	1											
		2565.511	FULL T ACT T CONTROL SIGNAL SYSTEM C	SIG SYS	1	1											
		2565.511	FULL T ACT T CONTROL SIGNAL SYSTEM D	SIG SYS	1	0.5								0.5			
		2565.511	FULL T ACT T CONTROL SIGNAL SYSTEM E	SIG SYS	1									0.5		0.5	
		2565.511	FULL T ACT T CONTROL SIGNAL SYSTEM F	SIG SYS	1					1							
		2565.511	FULL T ACT T CONTROL SIGNAL SYSTEM G	SIG SYS	1					1							
		2565.511	FULL T ACT T CONTROL SIGNAL SYSTEM H	SIG SYS	1					0.5		0.25	0.25				
		2565.601	EMERGENCY VEHICLE PREEMPTION SYS A	LS	1	1											
		2565.601	EMERGENCY VEHICLE PREEMPTION SYS B	LS	1	1											
		2565.601	EMERGENCY VEHICLE PREEMPTION SYS C	LS	1	1											
		2565.601	EMERGENCY VEHICLE PREEMPTION SYS D	LS	1	1								1			
		2565.601	EMERGENCY VEHICLE PREEMPTION SYS E	LS	1									0.5		0.5	
		2565.601	EMERGENCY VEHICLE PREEMPTION SYS F	LS	1					1							
		2565.601	EMERGENCY VEHICLE PREEMPTION SYS G	LS	1					1							
		2565.601	EMERGENCY VEHICLE PREEMPTION SYS H	LS	1					0.50		0.25	0.25				
		2565.601	TRAFFIC CONTROL INTERCONNECTION	LS	1	0.49				0.35		0.04	0.04	[illegible]			
		2565.602	PVC HANDHOLE (METAL FRAME AND COVER)	EACH	10	5				4							
		2565.602	NMC LOOP DETECTOR	EACH	10	5				4				1			
		2565.616	REVISE SIGNAL SYSTEM A	SYSTEM	1	1											
		2565.616	TEMPORARY SIGNAL SYSTEM A	SYSTEM	1	1											
		2565.616	TEMPORARY SIGNAL SYSTEM C	SYSTEM	1	1											
		2565.616	TEMPORARY SIGNAL SYSTEM D	SYSTEM	1	0.5								0.5			
		2565.616	TEMPORARY SIGNAL SYSTEM F	SYSTEM	1					1							
		2565.616	TEMPORARY SIGNAL SYSTEM G	SYSTEM	1					1							
		2565.616	TEMPORARY SIGNAL SYSTEM H	SYSTEM	1					0.5		0.25	0.25				
AG		2571.501	CONIFEROUS TREE 1.8 m HT B&B	TREE	116											116	
AG		2571.502	DECIDUOUS TREE 25 mm CAL B&B	TREE	41											41	
AG		2571.502	DECIDUOUS TREE 40 mm CAL B&B	TREE	44					38						6	
AG		2571.502	DECIDUOUS TREE 50 mm CAL B&B	TREE	51											51	
AG		2571.502	DECIDUOUS TREE 60 mm CAL B&B	TREE	227	185				32						10	
AG		2571.503	ORNAMENTAL TREE 1.8 m HT B&B	TREE	24				12							12	

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5 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	REVISED QUANTITIES PER MN/DOT COMMENTS
2	JJL	2/11/00	ADDEND 1 MODIFIED QUANTITIES
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JJL
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: SEQTAB5
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / TH 242
STATEMENT OF ESTIMATED QUANTITIES
CITY PROJECT 98-20

S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 8 / 539

PLOT DATE: Aug 24 8:47am DISK FILE NAME: (15.06) R:\33889\33869028\33889E\TABS\SEQ

STATEMENT OF ESTIMATED QUANTITES

TAB	NOTE	ITEM NO.	ITEM	UNITS	TOTAL QUANTITIES	MAIN STREET (C.S.A.H. 14) (S.A.P. 02-614-19) (S.A.P. 114-020-19)		STORM SEWER	LAND-SCAPING	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE) (S.P. 0212-40) (S.P. 114-010-11)		COON CREEK BOULEVARD (CSAH 18) (S.A.P. 02-618-24)		NORTHDALE BOULEVARD (S.A.P. 114-127-02)		CROOKED LAKE BLVD AND 124TH AVENUE (S.A.P. 114-136-02)	
						ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	ESTIMATED QUANTITIES	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING
AG		2571.505	DECIDUOUS SHRUB NO. 2 CONTAINER	SHRB	3539				3539								
AG		2571.507	PERENNIAL 150 mm CONT.	PLT	1218				1218								
X	9	2573.603	SILT FENCE, TYPE MACHINE SLICED	m	4528	630				3510		332		36		20	
W		2575.501	SEEDING	ha	13.1	0.3				11.5				0.2		1.1	
W		2575.502	SEED MIXTURE SPECIAL 1	kg	5.5					5.5							
W		2575.502	SEED MIXTURE SPECIAL 2	kg	104.0					104.0							
W		2575.502	SEED MIXTURE SPECIAL 3	kg	141.5					141.5							
W		2575.502	SEED MIXTURE 50A	kg	399.5	[illegible]				324.0				9.0		53.0	
W		2575.505	SODDING TYPE SALT RESISTANT	m2	[illegible]	18450				2830		3250		4065		3070	
W		2575.511	MULCH MATERIAL TYPE 7B	t	45.7	1.0				40.3				0.7		3.7	
W		2575.519	DISC ANCHORING		13.1	0.3				11.5				0.2		1.1	
	8	2575.523	EROSION CONTROL BLANKETS CATEGORY 3	m^2	1000					1000							
W	10	2575.532	COMMERCIAL FERTILIZER 22-05-10	kg	7286	151.0				6440				101.0		594.0	
		2575.545	WEED SPRAYING	ha	13.1	0.3				11.5				0.2		1.1	
		2575.547	WEED SPRAYING [illegible]	L	77.4	1.6				68.4				1.1		6.3	
	24	[illegible]	INTERIM PAVEMENT MARKING	m	35871	19115				16056							
		2581.501	REMOVABLE PREFORMED PLASTIC MARKING	m	7540	210				7230		100					
		2581.603	REMOVABLE PREFORMED PLASTIC MASK (BLACK)	m	360	200				150						10	

NOTES:
1. PIPE CLASS SHOWN IS MINIMUM ALLOWABLE. HIGHER CLASS OF PIPE MAY BE SUBSTITUTED FOR CLASS SHOWN.
2. 10 STRUCTURES
3. 1 STRUCTURE
4. 4 STRUCTURES
5. DESIGN 3110 G
6. DESIGN 3100 G
7. SURMOUNTABLE
8. QUANTITY ESTIMATED. TO BE PLACED AS DIRECTED IN THE FIELD BY ENGINEER.
9. INCLUDES MAINTENANCE, UPKEEP, AND REMOVAL OF SILT FENCE
10. SLOW RELEASE TYPE
11. FEATURE WALL
12. STEEL EDGER
13. QUADGUARD SYSTEM OR EQUAL
14. BRAKE MASTER SYSTEM OR EQUAL
15. FOR ALL BITUMINOUS PAVEMENT REGARDLESS OF DEPTH
16. INCLUDES BASE
17. INCLUDES HAULING OF SIGNAL SYSTEMS
18. DESIGN M3128F
19. FOR TEMPORARY CONSTRUCTION ONLY
20. VARIES FROM 50 mm TO 250 mm
21. INCLUDES REMOVING CONCRETE BLOCK
22. REINFORCED
23. CONTRACTOR OWNED
24. 9 m GAP, 1 m STRIPE

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/98	REVISED QUANTITIES PER MN/DOT COMMENTS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JJL | DESIGN BY: JJL
CHKD. BY: KPK | DWG. NAME: SEQTAB6
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / TH 242
STATEMENT OF ESTIMATED QUANTITIES
CITY PROJECT 98-20

S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 9 / 539

PLOT DATE: Aug 2, 04 8:48am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SEQ.dwg

F DRAWINGS
APBOX

SOILS & CONSTRUCTION NOTES

1. THE TOP OF THE GRADING GRADE IS DEFINED AS THE BOTTOM OF THE CLASS 5 AGGREGATE BASE.
2. SELECT GRADING MATERIAL ON THIS PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED WITH THE EXCEPTION OF TOPSOIL, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL.
3. SELECT GRANULAR MATERIAL, REGARDLESS OF SOURCE SHALL MEET THE REQUIREMENTS OF MN/DOT SPEC. 3149.2B2.
4. DISPOSITION OF EXCESS EXCAVATED MATERIAL SHALL BE IN ACCORDANCE WITH MN/DOT SPEC. 2105.3D WITH NO DIRECT COMPENSATION MADE THEREFORE.
5. OBTAIN COMPACTION ON GRADING AND AGGREGATE BASE PORTIONS OF CONSTRUCTION IN ACCORDANCE WITH THE SPECIFIED DENSITY METHOD REQUIREMENTS (2211.3C1).
6. COMPACTION OF ALL BITUMINOUS LAYERS SHALL BE PER 2350 AND 2360 SPECIFICATION.
7. STABILIZING AGGREGATE SHALL BE INCORPORATED INTO THE SUBGRADE TO ACHIEVE SATISFACTORY SURFACE STABILITY, IF DEEMED NECESSARY BY THE ENGINEER, IN ACCORDANCE WITH SPEC. 2105.3G. USE AN APPLICATION RATE OF 110 + kg PER SQUARE METER. STABILIZING MATERIAL SHALL BE AT THE CONTRACTOR'S EXPENSE WHEN MATERIAL NEEDING STABILIZATION IS FURNISHED AS A BORROW ITEM.
8. STRIP ALL TOPSOIL AND INPLACE SLOPE DRESSING WHERE PRESENT IN AREAS TO BE DISTURBED BY CONSTRUCTION AND REUSE AS SLOPE DRESSING. SLOPE DRESSING ON THIS PROJECT IS DEFINED AS THE TOPSOIL OR OTHER "A" HORIZON SOIL WHICH HAS BEEN PLACED DURING PREVIOUS CONSTRUCTION TO PROVIDE A MEDIUM FOR ESTABLISHING TURF. THE AVERAGE DEPTH OF TOPSOIL LAYER IS ASSUMED TO BE 200 mm.
10. WHERE CONNECTING NEW SURFACING TO EXISTING SURFACING, THE EXCAVATION SHALL BE BACKFILLED AS SOON AS PRACTICABLE. WHERE CONNECTING TO EXISTING SURFACING AT THE TERMINI OF PROPOSED SURFACING, CUT VERTICALLY TO THE BOTTOM OF THE EXISTING SURFACING OR THE NEW SURFACING WHICHEVER IS DEEPER, THEN AT A 1(V) TO 20(H) TO THE BOTTOM OF THE SUBCUT. WHERE MATCHING ADJACENT TO EXISTING SURFACING, CUT AT A 1(V) TO 2(H) TO THE BOTTOM OF THE SUBCUT.
11. DISPOSITION OF CONCRETE AND BITUMINOUS REMOVALS SHALL BE IN ACCORDANCE WITH MN/DOT SPEC. 2104.3C3, WITH NO DIRECT COMPENSATION MADE THEREFORE.
12. THE TOP OF BACKSLOPES AND THE TOE OF FILL SLOPES SHALL BE ROUNDED.
13. THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AND DEPTHS AS REQUIRED BEFORE EXCAVATION. EXCAVATIONS TO LOCATE UTILITIES SHALL BE INCIDENTAL. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE UTILITY COMPANIES AND CALL THE "GOPHER STATE ONE CALL" (1-800-252-1166) AT LEAST 48 HOURS PRIOR TO EXCAVATION/CONSTRUCTION.
14. USE TACK COAT BETWEEN ALL BITUMINOUS MIXTURES PRIOR TO PLACING BITUMINOUS MIXTURES AND PRIOR TO PLACING BITUMINOUS MIXTURES ON EXISTING CONCRETE OR BITUMINOUS SURFACES. THE BITUMINOUS TACK COAT MATERIAL SHALL BE APPLIED AT UNIFORM RATE OF 0.23 L/m2 BETWEEN BITUMINOUS LAYERS. THE APPLICATION RATES ARE FOR UNDILUTED EMULSION (AS SUPPLIED FROM THE REFINERY); ASPHALT EMULSION MAY BE FURTHER DILUTED IN THE FIELD IN ACCORDANCE WITH SPEC. 2357.
15. PLACE MINIMUM 150 mm TOPSOIL OR SLOPE DRESSING AN ALL AREAS DISTURBED BY CONSTRUCTION AND SCHEDULED FOR PERMANENT TURF ESTABLISHMENT. TOPSOIL BORROW TO BE UTILIZED AT THE DIRECTION OF THE ENGINEER IN FIELD. FERTILIZE WITH COMMERCIAL FERTILIZER, ANALYSIS (OR EQUIVALENT), AT RATE OF 560 kg PER ha.
16. USE MIXTURE 50A SEED AND TYPE 7B MULCH IN AREAS TO BE SEEDED.
17. SOD ALL MAINTAINED LAWNS DISTURBED BY CONSTRUCTION.
18. ALL SOD UTILIZED WITHIN THE PROJECT LIMITS SHALL MEET THE REQUIREMENTS OF SPEC. 3878.2C (SALT RESISTANCY).
19. ORGANIC AND NONGRANULAR EXCAVATED MATERIAL MAY BE USED IN EMBANKMENT CONSTRUCTION, CONSTRUCTION IN AREAS OUTSIDE OF 1 1/2:1 SLOPE FROM THE BACK OF CURB OR GRADING P.I..

SOILS & CONSTRUCTION NOTES CONTINUED

20. BITUMINOUS REMOVAL QUANTITY BASED ON SQUARE METER REMOVED REGARDLESS OF PAVEMENT DEPTH. CONTRACTOR SHALL INVESTIGATE AND MAKE OWN DETERMINATION OF ACTUAL PAVEMENT DEPTH.
21. ALL SILT FENCING AS SHOWN IN THE PLANS SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF GRADING OPERATIONS.
22. A DOUBLE ROW OF BALE CHECKS OR MACHINE SLICED SILT FENCE SHALL BE INSTALLED ALONG DITCH RUNS FOR EROSION CONTROL AS DIRECTED BY THE ENGINEER IN THE FIELD.
23. SALVAGED SIGNS SHALL BE STORED ON-SITE AT LOCATION DESIGNATED BY THE ENGINEER. SIGNS SHALL BE STORED TO PREVENT DAMAGE UNTIL THEY ARE RETRIEVED BY LOCAL COUNTY OR STATE FORCES.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 15 RE: TOPSOIL FROM 100 TO 150 mm. CHANGED NOTE 22 RE: SILT FENCE FROM SLOTTED TO MACHINED SLICED.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK | DWG. NAME: SOILNOTE
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
SOILS AND CONSTRUCTION NOTES
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 10 / 539

PLOT DATE: Jan 04, 00 11:30am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT_...RING\soilnote.dwg

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBGRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SAP 02-614-19, SAP 114-020-19								
MAIN STREET (CSAH 14)								
2+020 N	-	-	-	-	-	-	-	-
2+020 S	-	-	-	-	-	-	-	-
2+024.727 N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2+024.727 S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2+040 N	51.2	0.0	0.0	51.2	4.6	11.5	0.0	16.1
2+040 S	56.5	0.0	0.0	56.5	11.5	46.6	0.0	58.1
2+060 N	150.0	0.0	0.0	150.0	16.0	46.0	0.0	62.0
2+060 S	150.0	0.0	0.0	150.0	30.0	146.0	0.0	176.0
2+080 N	201.0	0.0	0.0	201.0	19.0	36.0	0.0	55.0
2+080 S	202.0	0.0	0.0	202.0	26.0	142.0	0.0	168.0
2+100 N	347.0	0.0	0.0	347.0	20.0	6.0	0.0	26.0
2+100 S	391.0	0.0	0.0	391.0	25.0	61.0	0.0	86.0
2+120 N	548.0	0.0	0.0	548.0	23.0	2.0	0.0	25.0
2+120 S	646.0	0.0	0.0	646.0	30.0	8.0	0.0	38.0
2+140 N	731.0	0.0	0.0	731.0	27.0	2.0	0.0	29.0
2+140 S	827.0	0.0	0.0	827.0	31.0	8.0	0.0	39.0
2+160 N	865.0	0.0	0.0	865.0	30.0	4.0	0.0	34.0
2+160 S	896.0	0.0	0.0	896.0	27.0	6.0	0.0	33.0
2+180 N	893.0	0.0	0.0	893.0	30.0	7.0	0.0	37.0
2+180 S	883.0	0.0	0.0	883.0	18.0	3.0	0.0	21.0
2+200 N	853.0	0.0	0.0	853.0	30.0	8.0	0.0	38.0
2+200 S	843.0	0.0	0.0	843.0	13.0	2.0	0.0	15.0
2+220 N	811.0	0.0	0.0	811.0	29.0	8.0	0.0	37.0
2+220 S	796.0	0.0	0.0	796.0	13.0	2.0	0.0	15.0
2+240 N	814.0	0.0	0.0	814.0	29.0	8.0	0.0	37.0
2+240 S	753.0	0.0	0.0	753.0	12.0	2.0	0.0	14.0
2+260 N	816.0	0.0	0.0	816.0	31.0	8.0	0.0	39.0
2+260 S	722.0	0.0	0.0	722.0	12.0	2.0	0.0	14.0
2+280 N	782.0	0.0	0.0	782.0	31.0	8.0	0.0	39.0
2+280 S	657.0	0.0	0.0	657.0	12.0	2.0	0.0	14.0
2+300 N	663.0	0.0	0.0	663.0	15.0	4.0	0.0	19.0
2+300 S	583.0	0.0	0.0	583.0	6.0	1.0	0.0	7.0
2+320 N	581.0	0.0	0.0	581.0	0.0	0.0	0.0	0.0
2+320 S	568.0	0.0	0.0	568.0	0.0	0.0	0.0	0.0
2+340 N	723.0	0.0	0.0	723.0	9.0	1.0	0.0	10.0
2+340 S	629.0	0.0	0.0	629.0	11.0	4.0	0.0	15.0
2+360 N	926.0	0.0	0.0	926.0	20.0	2.0	0.0	22.0
2+360 S	769.0	0.0	0.0	769.0	26.0	8.0	0.0	34.0
2+380 N	1059.0	0.0	0.0	1059.0	21.0	2.0	0.0	23.0
2+380 S	951.0	0.0	0.0	951.0	30.0	8.0	0.0	38.0
2+400 N	1164.0	0.0	0.0	1164.0	22.0	2.0	0.0	24.0
2+400 S	1025.0	0.0	0.0	1025.0	30.0	8.0	0.0	38.0
2+420 N	1306.0	0.0	0.0	1306.0	27.0	2.0	0.0	29.0
2+420 S	1039.0	0.0	0.0	1039.0	30.0	8.0	0.0	38.0
2+440 N	1503.0	0.0	0.0	1503.0	31.0	2.0	0.0	33.0
2+440 S	1139.0	0.0	0.0	1139.0	31.0	8.0	0.0	39.0
2+460 N	1620.0	0.0	0.0	1620.0	35.0	4.0	0.0	39.0
2+460 S	1243.0	0.0	0.0	1243.0	32.0	6.0	0.0	38.0
2+480 N	1575.0	0.0	0.0	1575.0	36.0	7.0	0.0	43.0
2+480 S	1303.0	0.0	0.0	1303.0	33.0	3.0	0.0	36.0
2+500 N	1430.0	0.0	0.0	1430.0	35.0	8.0	0.0	43.0
2+500 S	1267.0	0.0	0.0	1267.0	32.0	2.0	0.0	34.0
2+520 N	1265.0	0.0	0.0	1265.0	35.0	8.0	0.0	43.0
2+520 S	1181.0	0.0	0.0	1181.0	27.0	2.0	0.0	29.0
2+540 N	1127.0	0.0	0.0	1127.0	33.0	8.0	0.0	41.0
2+540 S	1092.0	0.0	0.0	1092.0	24.0	2.0	0.0	26.0

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SAP 02-614-19, SAP 114-020-19								
MAIN STREET (CSAH 14) CONTINUED								
2+560 N	1004.0	0.0	0.0	1004.0	27.0	8.0	0.0	35.0
2+560 S	956.0	0.0	0.0	956.0	21.0	2.0	0.0	23.0
2+580 N	875.0	0.0	0.0	875.0	22.0	8.0	0.0	30.0
2+580 S	815.0	0.0	0.0	815.0	17.0	2.0	0.0	19.0
2+600 N	708.0	0.0	0.0	708.0	11.0	4.0	0.0	15.0
2+600 S	673.0	0.0	0.0	673.0	8.0	1.0	0.0	9.0
2+620 N	603.0	0.0	0.0	603.0	0.0	0.0	0.0	0.0
2+620 S	596.0	0.0	0.0	596.0	0.0	0.0	0.0	0.0
2+640 N	662.0	0.0	0.0	662.0	9.0	1.0	0.0	10.0
2+640 S	657.0	0.0	0.0	657.0	15.0	4.0	0.0	19.0
2+660 N	786.0	0.0	0.0	786.0	21.0	2.0	0.0	23.0
2+660 S	730.0	0.0	0.0	730.0	30.0	8.0	0.0	38.0
2+680 N	930.0	0.0	0.0	930.0	23.0	2.0	0.0	25.0
2+680 S	761.0	0.0	0.0	761.0	30.0	8.0	0.0	38.0
2+700 N	1137.0	0.0	0.0	1137.0	27.0	2.0	0.0	29.0
2+700 S	848.0	0.0	0.0	848.0	30.0	8.0	0.0	38.0
2+720 N	1270.0	0.0	0.0	1270.0	31.0	2.0	0.0	33.0
2+720 S	938.0	0.0	0.0	938.0	27.0	8.0	0.0	35.0
2+740 N	1220.0	0.0	0.0	1220.0	27.0	2.0	0.0	29.0
2+740 S	986.0	0.0	0.0	986.0	21.0	8.0	0.0	29.0
2+760 N	1159.0	0.0	0.0	1159.0	28.0	4.0	0.0	32.0
2+760 S	1033.0	0.0	0.0	1033.0	25.0	6.0	0.0	31.0
2+780 N	1177.0	0.0	0.0	1177.0	34.0	11.0	0.0	45.0
2+780 S	1057.0	0.0	0.0	1057.0	31.0	3.0	0.0	34.0
2+800 N	1186.0	0.0	0.0	1186.0	34.0	12.0	0.0	46.0
2+800 S	1089.0	0.0	0.0	1089.0	24.0	2.0	0.0	26.0
2+820 N	1170.0	0.0	0.0	1170.0	34.0	8.0	0.0	42.0
2+820 S	1052.0	0.0	0.0	1052.0	17.0	2.0	0.0	19.0
2+840 N	1085.0	0.0	0.0	1085.0	35.0	8.0	0.0	43.0
2+840 S	958.0	0.0	0.0	958.0	16.0	2.0	0.0	18.0
2+860 N	906.0	0.0	0.0	906.0	33.0	8.0	0.0	41.0
2+860 S	853.0	0.0	0.0	853.0	16.0	2.0	0.0	18.0
2+880 N	667.0	0.0	0.0	667.0	16.0	4.0	0.0	20.0
2+880 S	682.0	0.0	0.0	682.0	8.0	1.0	0.0	9.0
2+900 N	510.0	0.0	0.0	510.0	0.0	0.0	0.0	0.0
2+900 S	549.0	0.0	0.0	549.0	0.0	0.0	0.0	0.0
2+914 N	555.0	0.0	0.0	555.0	3.0	1.0	0.0	4.0
2+914 S	648.0	0.0	0.0	648.0	3.0	12.0	0.0	15.0
2+920 N	603.0	0.0	0.0	603.0	11.0	2.0	0.0	13.0
2+920 S	814.0	0.0	0.0	814.0	6.0	16.0	0.0	22.0
2+940 N	570.0	0.0	0.0	570.0	16.0	2.0	0.0	18.0
2+940 S	694.0	0.0	0.0	694.0	8.0	13.0	0.0	21.0
2+960 N	539.0	0.0	0.0	539.0	14.0	2.0	0.0	16.0
2+960 S	502.0	0.0	0.0	502.0	10.0	22.0	0.0	32.0
2+980 N	444.0	0.0	0.0	444.0	15.0	2.0	0.0	17.0
2+980 S	387.0	0.0	0.0	387.0	17.0	57.0	0.0	74.0
3+000 N	291.0	0.0	0.0	291.0	14.0	12.0	0.0	26.0
3+000 S	261.0	0.0	0.0	261.0	24.0	148.0	0.0	172.0
3+020 N	180.0	0.0	0.0	180.0	15.0	12.0	0.0	27.0
3+020 S	198.0	0.0	0.0	198.0	25.0	268.0	0.0	293.0
3+040 N	140.0	0.0	0.0	140.0	23.0	90.0	0.0	113.0
3+040 S	171.0	0.0	0.0	171.0	26.0	349.0	0.0	375.0
3+060 N	139.0	0.0	0.0	139.0	27.0	234.0	0.0	261.0
3+060 S	137.0	0.0	0.0	137.0	28.0	441.0	0.0	469.0
3+080 N	156.0	0.0	0.0	156.0	28.0	369.0	0.0	397.0
3+080 S	114.0	0.0	0.0	114.0	32.0	629.0	0.0	661.0

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SAP 02-614-19, SAP 114-020-19								
MAIN STREET (CSAH 14) CONTINUED								
3+100 N	141.0	0.0	0.0	141.0	28.0	716.0	0.0	744.0
3+100 S	111.0	0.0	0.0	111.0	36.0	849.0	0.0	885.0
3+120 N	63.0	0.0	0.0	63.0	37.0	1033.0	0.0	1070.0
3+120 S	112.0	0.0	0.0	112.0	43.0	1044.0	0.0	1087.0
3+128.436 N	28.7	0.0	0.0	28.7	12.2	494.3	0.0	506.5
3+128.436 S	46.0	0.0	0.0	46.0	20.2	498.1	0.0	518.3
3+140 N	91.0	0.0	0.0	91.0	23.7	683.4	0.0	707.1
3+140 S	64.8	0.0	0.0	64.8	24.9	737.2	0.0	762.1
3+160 N	85.0	0.0	0.0	85.0	44.0	1339.0	0.0	1383.0
3+160 S	116.0	0.0	0.0	116.0	46.0	1549.0	0.0	1595.0
3+180 N	115.0	0.0	0.0	115.0	49.0	1666.0	0.0	1715.0
3+180 S	123.0	0.0	0.0	123.0	52.0	1825.0	0.0	1877.0
3+200 N	116.0	0.0	0.0	116.0	63.0	2164.0	0.0	2227.0
3+200 S	130.0	0.0	0.0	130.0	58.0	2146.0	0.0	2204.0
3+211.698 N	74.3	0.0	0.0	74.3	43.3	1435.3	0.0	1478.6
3+211.698 S	82.5	0.0	0.0	82.5	41.5	1514.9	0.0	1556.4
RIVER RAPIDS DRIVE								
0+940	-	-	-	-	-	-	-	-
0+952	64.8	0.0	0.0	64.8	7.2	16.8	0.0	24.0
0+960	85.5	0.0	0.0	85.5	10.8	25.2	0.0	36.0
0+980.500	396.7	0.0	0.0	396.7	21.5	28.7	0.0	50.2
1+020	-	-	-	-	-	-	0.0	-
1+040	804.0	0.0	0.0	804.0	36.0	19.0	0.0	55.0
1+050	265.0	0.0	0.0	265.0	31.5	17.0	0.0	48.5
RIVERDALE BOULEVARD								
0+940	-	-	-	-	-	-	-	-
0+941.253	12.1	0.0	0.0	12.1	1.1	1.2	0.0	2.3
0+960	204.4	0.0	0.0	204.4	30.9	16.9	0.0	47.8
0+980.500	577.1	0.0	0.0	577.1	49.2	16.4	0.0	65.6
1+020	-	-	-	-	-	-	-	-
1+040	682.0	0.0	0.0	682.0	9.0	7.0	0.0	16.0
1+060	125.0	0.0	0.0	125.0	17.0	99.0	0.0	116.0
1+080	84.0	0.0	0.0	84.0	17.0	99.0	0.0	116.0
1+086	32.5	0.0	0.0	32.5	3.0	3.0	0.0	6.0
SUBTOTAL	88079.1	0.0	0.0	88079.1	3160.1	23572.5	0.0	26732.6

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	6/28/00	MOD.REQ.#31: REMOVED SUBGRADE EX AND SELECT GRANULAR BORROW FROM CSAH 14
2	JJL	7/5/00	MOD.REQ.#36: REVISE MENARDS ENTRANCE, REMOVE RETAINING WALL
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB20
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
TABULATED QUANTITIES
EARTHWORK TABULATION

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 11 / 539

APBOX
PLOT DATE: Aug 25, 04 4:50pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242...dwg

APBOX

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SP 0212-40, SP 114-010-11 (INTERCHANGE)								
TH 242 INTERCHANGE								
3+211.698	-	-	-	-	-	-	-	-
3+220	91.3	0.0	0.0	91.3	47.[illegible]	1814.0	0.0	1861.3
3+240	183.0	0.0	0.0	183.0	72.0	3665.0	0.0	3757.0
3+260	114.0	0.0	0.0	114.0	50.0	2893.0	0.0	2943.0
3+261.335	2.1	0.0	0.0	2.1	0.0	121.2	0.0	121.2
3+279.163	84.7	0.0	0.0	84.7	32.1	2317.6	0.0	2349.7
3+280	6.6	0.0	0.0	6.6	3.0	143.7	0.0	146.7
3+300	206.0	0.0	0.0	206.0	92.0	4050.0	0.0	4142.0
3+320	277.0	0.0	0.0	277.0	122.0	5183.0	0.0	5305.0
3+340	263.0	0.0	0.0	263.0	98.0	4086.0	0.0	4184.0
3+360	129.0	0.0	0.0	129.0	32.0	1217.0	0.0	1249.0
3+380	17.0	0.0	0.0	17.0	0.0	0.0	0.0	0.0
3+400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3+420	133.0	0.0	0.0	133.0	40.0	1869.0	69.0	1978.0
3+440	296.0	0.0	0.0	296.0	115.0	4685.0	209.0	5009.0
3+460	322.0	0.0	0.0	322.0	151.0	5118.0	278.0	5547.0
3+480	305.0	0.0	0.0	305.0	142.0	4133.0	276.0	4551.0
3+500	263.0	0.0	0.0	263.0	112.0	2973.0	284.0	3369.0
3+510.631	109.0	0.0	0.0	109.0	33.5	956.3	161.1	1151.9
3+520	41.2	0.0	0.0	41.2	28.6	561.7	160.2	750.5
3+523.642	0.0	0.0	0.0	0.0	11.7	162.6	54.1	228.4
3+540	90.7	0.0	0.0	90.7	56.0	1344.8	255.2	1656.0
SUBTOTAL	2933.6	0.0	0.0	2933.6	1258.2	47293.9	1747.6	50299.7

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)						
	COMMON	SUBRADE	(1) MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	SELECT GRANMOD	GRANULAR	LIGHT-WT FILL	TOTAL FILL
SP 0212-40, SP 114-010-11											
TH 242											
3+540	-	-	-	-	-	-	-	-	-	-	-
3+560	741.0	0.0	0.0	741.0	143.0	2752.0	248.0	0.0	0.0	0.0	3143.0
3+580	1045.0	0.0	0.0	1045.0	211.0	4118.0	240.0	0.0	0.0	0.0	4569.0
3+600	794.0	0.0	260.0	1054.0	204.0	3813.0	240.0	0.0	1398.0	0.0	5655.0
3+620	675.0	0.0	1276.0	1951.0	202.0	2612.0	240.0	0.0	3574.0	0.0	6628.0
3+640	539.0	0.0	3287.0	3826.0	205.0	2352.0	237.0	941.0	4600.0	0.0	8335.0
3+660	473.0	0.0	5506.0	5979.0	182.0	2100.0	232.0	3086.0	4474.0	0.0	10074.0
3+680	433.0	0.0	6195.0	6628.0	152.0	1774.0	233.0	4191.0	3798.0	0.0	10148.0
3+700	401.0	0.0	5656.0	6057.0	151.0	1454.0	237.0	3972.0	3194.0	0.0	8988.0
3+720	400.0	0.0	5152.0	5552.0	138.0	1133.0	237.0	3739.0	2638.0	0.0	7885.0
3+740	452.0	0.0	4708.0	5160.0	138.0	936.0	236.0	3525.0	2180.0	0.0	7015.0
3+760	394.0	0.0	4708.0	5102.0	134.0	740.0	256.0	3727.0	1829.0	0.0	6686.0
3+761.081	283.0	0.0	4871.0	5154.0	113.0	597.0	278.0	4003.0	1681.0	0.0	6672.0
3+770	222.0	0.0	5030.0	5252.0	93.0	503.0	308.0	4225.0	1727.0	0.0	6860.0
3+773.628	188.0	0.0	5265.0	5453.0	84.0	442.0	323.0	4563.0	1792.0	0.0	7204.0
3+780	330.0	0.0	4877.0	5207.0	119.0	651.0	267.0	4272.0	1697.0	0.0	6816.0
3+800	415.0	0.0	5204.0	5619.0	120.0	668.0	267.0	4798.0	1250.0	0.0	7103.0
3+820	472.0	0.0	5825.0	6297.0	120.0	618.0	276.0	5387.0	1123.0	0.0	7524.0
3+840	488.0	0.0	6317.0	6805.0	120.0	576.0	276.0	5974.0	1035.0	0.0	7981.0
3+852.540	327.3	0.0	4238.5	4565.8	72.1	343.0	173.1	4034.1	605.7	0.0	5228.0
3+860	157.8	0.0	2618.8	2776.6	42.9	196.2	102.9	2505.8	344.7	0.0	3192.5
3+880	419.0	0.0	7342.0	7761.0	120.0	501.0	276.0	7113.0	866.0	0.0	8876.0
3+900	552.0	0.0	7962.0	8514.0	120.0	467.0	274.0	7691.0	783.0	0.0	9335.0
3+920	573.0	0.0	7876.0	8449.0	120.0	429.0	271.0	7481.0	700.0	0.0	9001.0
3+940	618.0	0.0	6950.0	7568.0	120.0	391.0	267.0	6825.0	631.0	0.0	7834.0
3+960	716.0	0.0	5975.0	6691.0	120.0	368.0	259.0	5361.0	605.0	0.0	6713.0
3+970	413.5	0.0	2678.0	3091.5	121.0	176.0	136.0	2339.0	312.5	0.0	3084.5
3+980	246.5	0.0	2390.5	2637.0	94.0	199.0	152.5	2233.5	344.0	0.0	3023.0
4+000	245.0	125.0	4634.0	5004.0	33.0	321.0	489.0	4016.0	794.0	0.0	5653.0
4+003.613	69.9	45.3	881.2	996.4	0.0	34.5	118.9	639.5	158.1	0.0	951.0
4+005.120	31.1	19.1	360.8	411.0	0.0	14.2	49.6	258.8	67.6	0.0	390.2
4+020	198.6	94.5	3586.8	3879.9	29.4	183.8	375.0	2413.5	694.2	0.0	3705.9
4+040	108.0	0.0	3646.0	3754.0	95.0	155.0	365.0	1550.0	483.0	1428.0	4076.0
4+045.416	31.1	0.0	640.4	671.5	23.0	0.0	102.9	0.0	0.0	759.1	885.0
4+057.515	174.0	26.0	122.4	322.4	9.5	0.0	30.9	0.0	0.0	188.9	229.3
4+060	21.5	2.0	149.9	173.4	11.1	0.0	36.9	0.0	0.0	232.0	280.0
4+080	223.0	50.0	0.0	273.0	99.0	0.0	213.0	0.0	0.0	819.0	1131.0
4+100	230.0	71.0	0.0	301.0	102.0	0.0	220.0	0.0	0.0	787.0	1109.0
4+120	255.0	102.0	0.0	357.0	110.0	0.0	210.0	0.0	0.0	754.0	1074.0
4+140	282.0	115.0	0.0	397.0	120.0	0.0	166.0	0.0	0.0	479.0	765.0
4+160	268.0	70.0	0.0	338.0	120.0	0.0	113.0	0.0	0.0	275.0	508.0
4+180	256.0	40.0	0.0	296.0	126.0	0.0	92.0	0.0	0.0	639.0	857.0
4+200	308.0	41.0	0.0	349.0	140.0	0.0	80.0	0.0	0.0	1005.0	1225.0
4+220	376.0	41.0	0.0	417.0	149.0	0.0	73.0	0.0	0.0	1082.0	1304.0
4+240	409.0	20.0	0.0	429.0	163.0	0.0	40.0	0.0	0.0	1187.0	1390.0
4+248.576	121.8	0.0	0.0	121.8	51.9	0.0	0.0	0.0	0.0	334.0	385.9
SUBTOTAL	16376.1	861.9	136189.3	153427.3	4950.9	31597.7	9317.7	110468.2	45188.8	9969.0	211492.3

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3				EMBANKMENT m3			
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SP 0212-40, SP 114-010-11								
POND								
4+030	-	-	-	-	-	-	-	-
4+035	750.5	0.0	0.0	750.5	109.5	0.0	0.0	109.5
4+040	1383.0	0.0	0.0	1383.0	116.0	0.0	0.0	116.0
4+045	2028.8	0.0	0.0	2028.8	118.3	0.0	0.0	118.3
4+050	2555.5	0.0	0.0	2555.5	112.5	0.0	0.0	112.5
4+055	2902.3	0.0	0.0	2902.3	70.0	0.0	0.0	70.0
4+060	3167.3	0.0	0.0	3167.3	27.8	0.0	0.0	27.8
4+065	3514.5	0.0	0.0	3514.5	21.5	0.0	0.0	21.5
4+070	3754.5	0.0	0.0	3754.5	21.0	0.0	0.0	21.0
4+075	3583.3	0.0	0.0	3583.0	21.3	0.0	0.0	21.3
4+080	3201.0	0.0	0.0	3201.0	22.0	0.0	0.0	22.0
4+085	2883.3	0.0	0.0	2883.3	35.8	0.0	0.0	35.8
4+090	2615.0	0.0	0.0	2615.0	50.3	0.0	0.0	50.3
4+095	2280.8	0.0	0.0	2280.8	52.0	0.0	0.0	52.0
4+100	2036.8	0.0	0.0	2036.8	37.0	0.0	0.0	37.0
4+105	1986.5	0.0	0.0	1986.5	21.5	0.0	0.0	21.5
4+110	1954.5	0.0	0.0	1954.5	22.3	0.0	0.0	22.3
4+115	1827.8	0.0	0.0	1827.8	36.0	0.0	0.0	36.0
4+120	1689.5	0.0	0.0	1689.5	52.3	0.0	0.0	52.3
4+125	1652.8	0.0	0.0	1652.8	55.0	0.0	0.0	55.0
4+130	1735.8	0.0	0.0	1735.8	42.3	0.0	0.0	42.3
4+135	1988.5	0.0	0.0	1988.5	29.5	0.0	0.0	29.5
4+140	2280.5	0.0	0.0	2280.5	28.0	0.0	0.0	28.0
4+145	2435.8	0.0	0.0	2435.8	28.5	0.0	0.0	28.5
4+150	2408.8	0.0	0.0	2408.8	30.3	0.0	0.0	30.3
4+155	2252.8	0.0	0.0	2252.8	29.5	0.0	0.0	29.5
4+160	2040.3	0.0	0.0	2040.3	27.3	0.0	0.0	27.3
4+165	1819.0	0.0	0.0	1819.0	23.5	0.0	0.0	23.5
4+170	1649.5	0.0	0.0	1649.5	21.3	0.0	0.0	21.3
4+175	1577.0	0.0	0.0	1577.0	29.0	0.0	0.0	29.0
4+180	1579.5	0.0	0.0	1579.5	38.5	0.0	0.0	38.5
4+185	1557.8	0.0	0.0	1557.8	44.0	0.0	0.0	44.0
4+190	1467.8	0.0	0.0	1467.8	44.3	0.0	0.0	44.3
4+195	1315.8	0.0	0.0	1315.8	33.8	0.0	0.0	33.8
4+200	1178.8	0.0	0.0	1178.8	28.3	0.0	0.0	28.3
4+205	1072.8	0.0	0.0	1072.8	27.8	0.0	0.0	27.8
4+210	953.3	0.0	0.0	953.3	27.8	0.0	0.0	27.8
4+215	838.8	0.0	0.0	838.8	28.5	0.0	0.0	28.5
4+220	748.8	0.0	0.0	748.8	26.5	0.0	0.0	26.5
4+225	679.8	0.0	0.0	679.8	24.8	0.0	0.0	24.8
4+230	620.3	0.0	0.0	620.3	22.5	0.0	0.0	22.5
4+235	562.5	0.0	0.0	562.5	21.0	0.0	0.0	21.0
4+240	374.8	0.0	0.0	374.8	19.3	0.0	0.0	19.3
4+245	298.0	0.0	0.0	298.0	17.8	0.0	0.0	17.8
4+250	321.0	0.0	0.0	321.0	25.3	0.0	0.0	25.3
4+255	196.0	0.0	0.0	196.0	28.5	0.0	0.0	28.5
Berm north of pond - OLD	983.0			983.0		983.0		983.0
Berm north of pond - NEW	539.0			539.0	538.0	4168.0		4706.0
Middle Pond Berm Construction				0.0	246.0	1551.0		1797.0
East Pond Berm Construction				0.0	230.0	1272.0		1502.0
Removal of Knolls	448.0			448.0				0.0
SUBTOTAL	81691.2	0.0	0.0	81691.2	2764.0	7974.0	0.0	10738.0

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

2 OF 5

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	REVISED QUANTITIES PER MN/DOT COMMENTS
2	JJL	6/28/00	MOD.REQ.#31: REMOVED SELECT GRAN. WEST OF BRIDGE
3	JJL	6/30/00	MOD.REQ.#19A: ADDED EARTHWORK FOR BERM NEAR POND
4	JJL	7/5/00	MOD.REQ.#36: REVISED MENARDS ENTRANCE, REMOVED RETAINING WALL
5	JJL	7/17/01	MOD. REQ. #74: REVISED POND EARTHWORK
6	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 3388902B
DRAWN BY: PJM — DESIGN BY: JJL
CHKED. BY: KPK/JJL — DWG. NAME: 242TAB21
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
TABULATED QUANTITIES
EARTHWORK TABULATION

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 12 / 539

PLOT DATE: Aug 25, J4 4:52pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242\ .dwg

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SP 0212-40, SAP 114-010-11 RAMP A								
7+840	-	-	-	-	-	-	-	-
7+860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
7+880	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
7+900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
7+920	55.0	59.0	0.0	114.0	26.0	0.0	60.0	86
7+940	134.0	112.0	0.0	246.0	58.0	0.0	120.0	178
7+960	183.0	95.0	0.0	278.0	68.0	5.0	120.0	193
7+980	206.0	72.0	0.0	278.0	70.0	21.0	123.0	214
8+000	223.0	49.0	0.0	272.0	48.0	35.0	128.0	211
8+020	182.0	30.0	0.0	212.0	50.0	63.0	135.0	248
8+040	158.4	12.0	0.0	170.4	96.0	154.0	143.0	393
8+060	249.4	1.0	0.0	250.4	132.0	490.0	149.0	771
8+080	267.0	0.0	0.0	267.0	145.0	940.0	154.0	1239
8+100	284.0	0.0	0.0	284.0	147.0	1218.0	156.0	1521
8+120	490.0	0.0	0.0	490.0	145.0	1308.0	156.0	1609
8+140	719.0	0.0	0.0	719.0	164.0	1161.0	156.0	1481
8+160	708.0	0.0	0.0	708.0	158.0	854.0	156.0	1193
8+167.596	626.7	0.0	0.0	626.7	70.6	239.7	61.1	371
8+171.293	496.9	0.0	0.0	496.9	40.7	111.5	31.8	184
8+180	953.0	0.0	0.0	953.0	103.2	332.2	84.0	519
SUBTOTAL	5935.3	430.0	0.0	6365.3	1546.5	6932.3	1933.0	10412

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SP 0212-40, SAP 114-010-11 RAMP B								
8+220	-	-	-	-	-	-	-	-
8+236.4	58.2	0.0	0.0	58.2	22.1	505.1	77.1	604.3
8+240	108.1	0.0	0.0	108.1	51.7	858.2	119.7	1029.5
8+260	197.0	0.0	0.0	197.0	124.0	1497.0	153.0	1774.0
8+280	215.0	0.0	0.0	215.0	144.0	1842.0	142.0	2128.0
8+300	202.0	0.0	0.0	202.0	130.0	1967.0	142.0	2239.0
8+320	177.0	0.0	0.0	177.0	110.0	1839.0	142.0	2091.0
8+340	154.0	0.0	0.0	154.0	94.0	1584.0	142.0	1820.0
8+360	142.0	0.0	0.0	142.0	74.0	1289.0	142.0	1515.0
8+380	127.0	0.0	0.0	127.0	71.0	957.0	142.0	1170.0
8+400	100.0	0.0	0.0	100.0	50.0	575.0	142.0	767.0
8+400.1	0.5	0.1	0.0	0.6	0.3	2.0	0.7	3.0
8+420	123.4	30.8	0.0	154.2	59.7	344.3	149.3	553.2
8+440	140.0	39.0	0.0	179.0	39.0	231.0	149.0	419.0
8+460	140.0	36.0	0.0	176.0	36.0	194.0	140.0	370.0
8+480	136.0	29.0	0.0	165.0	33.0	106.0	123.0	262.0
8+500	120.0	25.0	0.0	145.0	32.0	104.0	106.0	242.0
8+520	101.0	24.0	0.0	125.0	35.0	195.0	93.0	322.0
8+540	98.0	24.0	0.0	122.0	35.0	206.0	84.0	325.0
8+560	95.0	25.0	0.0	120.0	35.0	207.0	80.0	322.0
8+570	77.0	14.0	0.0	91.0	21.0	71.5	45.5	138.0
8+571.8	19.1	3.1	0.0	22.1	4.1	7.0	9.8	20.9
8+580	76.3	15.6	0.0	91.8	16.8	29.9	46.7	93.5
8+600	151.0	38.0	0.0	189.0	40.0	65.0	107.0	212.0
8+620	141.0	38.0	0.0	179.0	41.0	58.0	97.0	196.0
8+640	124.0	38.0	0.0	162.0	37.0	49.0	87.0	173.0
8+660	98.0	38.0	0.0	136.0	31.0	41.0	77.0	149.0
8+680	84.0	39.0	0.0	123.0	30.0	34.0	68.0	132.0
8+700	74.0	39.0	0.0	113.0	31.0	30.0	59.0	120.0
8+720	65.0	39.0	0.0	104.0	31.0	21.0	49.0	101.0
8+740	68.0	40.0	0.0	108.0	31.0	10.0	44.0	85.0
8+758.2	65.5	35.5	0.0	101.0	28.2	8.2	40.0	76.4
SUBTOTAL	3477.1	610.0	0.0	4087.1	1527.9	14926.2	2998.8	19452.9

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SP 0212-40, SAP 114-010-11 RAMP C								
7+536.264	-	-	-	-	-	-	-	-
7+540	5.8	9.2	0.0	14.9	3.2	1.9	10.5	15.5
7+560	32.0	49.0	0.0	81.0	19.0	12.0	56.0	87.0
7+580	37.0	48.0	0.0	85.0	22.0	20.0	56.0	98.0
7+600	67.0	48.0	0.0	115.0	32.0	28.0	62.0	122.0
7+620	109.0	49.0	0.0	158.0	43.0	40.0	75.0	158.0
7+640	144.0	51.0	0.0	195.0	44.0	37.0	88.0	168.0
7+660	175.0	54.0	0.0	229.0	44.0	28.0	101.0	173.0
7+680	191.0	56.0	0.0	247.0	43.0	31.0	115.0	189.0
7+700	215.0	58.0	0.0	273.0	42.0	34.0	128.0	204.0
7+706.683	79.9	20.7	0.0	100.6	14.4	11.4	44.8	70.5
7+720	167.1	43.9	0.0	211.1	28.6	21.3	91.9	141.8
7+720.980	7.7	3.3	0.0	11.1	1.4	2.9	6.3	10.5
7+740	61.8	58.0	0.0	119.8	18.1	79.9	101.8	199.7
7+760	73.0	47.0	0.0	120.0	24.0	89.0	100.0	213.0
7+780	78.0	37.0	0.0	115.0	27.0	115.0	100.0	242.0
7+800	81.0	34.0	0.0	115.0	36.0	167.0	100.0	303.0
7+820	86.0	34.0	0.0	120.0	48.0	267.0	100.0	415.0
7+829.458	44.5	16.1	0.0	60.5	27.0	178.3	47.3	252.5
7+840	52.2	9.0	0.0	61.2	34.8	248.8	48.5	332.1
7+860	99.0	0.0	0.0	99.0	77.0	567.0	84.0	828.0
7+880	108.0	0.0	0.0	108.0	80.0	959.0	86.0	1125.0
7+887	119.0	0.0	0.0	119.0	84.0	1164.0	91.0	1339.0
7+900	121.0	0.0	0.0	121.0	87.0	1258.0	122.0	1467.0
7+920	132.0	0.0	0.0	132.0	90.0	1465.0	153.0	1708.0
7+940	167.0	0.0	0.0	167.0	118.0	1986.0	158.0	2262.0
7+960	198.0	0.0	0.0	198.0	145.0	2536.0	160.0	2841.0
7+980	206.0	0.0	0.0	206.0	150.0	2703.0	160.0	3013.0
7+994.868	155.4	0.0	0.0	155.4	111.5	1906.8	118.9	2137.3
8+000	55.7	0.0	0.0	55.7	38.7	661.0	39.8	739.5
8+020	112.0	0.0	0.0	112.0	76.0	1346.0	75.0	1497.0
SUBTOTAL	3180.0	725.2	0.0	3905.2	1608.6	18063.2	2679.7	22351.5

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3				EMBANKMENT m3			
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SP 0212-40, SAP 114-010-11 RAMP D, LEG D1								
8+002.908	-	-	-	-	-	-	-	-
8+020	112.0	0.0	0.0	112.0	66.7	1936.5	34.2	2037.4
8+038.350	115.6	0.0	0.0	115.6	67.9	2064.4	42.2	2174.5
8+040	9.9	0.0	0.0	9.9	5.8	176.8	4.0	186.6
8+041.680	9.7	0.0	0.0	9.7	5.6	173.9	4.0	183.4
8+060	99.8	0.0	0.0	99.8	58.6	1607.6	50.4	1716.6
8+078.80	94.9	0.0	0.0	94.9	57.3	1138.3	63.0	1258.7
8+080	5.6	0.0	0.0	5.6	3.5	54.1	3.7	61.3
8+090	45.5	0.0	0.0	45.5	29.5	405.5	28.0	463.0
8+100	40.0	0.0	0.0	40.0	28.5	324.5	28.0	381.0
8+112.467	39.3	0.0	0.0	39.3	34.3	313.5	34.9	382.7
SUBTOTAL	572.4	0.0	0.0	572.4	357.7	8195.2	292.3	8845.2

EARTHWORK TABULATION

P

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SP 0212-40, SAP 114-010-11 RAMP D								
8+040	-	-	-	-	-	-	-	-
8+060	40.0	0.0	0.0	40.0	11.0	382.0	61.0	454.0
8+080	72.0	0.0	0.0	72.0	38.0	699.0	114.0	851.0
8+100	68.0	0.0	0.0	68.0	54.0	590.0	97.0	741.0
8+112.468	44.3	0.0	0.0	44.3	48.0	337.9	53.0	438.9
8+120	38.4	0.0	0.0	38.4	38.0	284.7	41.4	364.2
8+130	131.0	0.0	0.0	131.0	101.0	954.0	141.0	1196.0
8+140	133.0	0.0	0.0	133.0	96.0	954.0	158.0	1208.0
8+160	109.0	0.0	0.0	109.0	88.0	844.0	174.0	1206.0
8+180	154.0	0.0	0.0	154.0	88.0	807.0	174.0	1069.0
8+200	402.0	0.0	0.0	402.0	106.0	559.0	170.0	835.0
8+220	518.0	1.0	0.0	519.0	111.0	313.0	167.0	591.0
8+240	412.0	17.0	0.0	429.0	96.0	126.0	160.0	382.0
8+260	327.0	59.0	0.0	386.0	89.0	29.0	156.0	274.0
8+280	372.0	79.0	0.0	451.0	88.0	63.0	157.0	306.0
8+300	495.0	66.0	0.0	561.0	88.0	91.0	156.0	335.0
8+320	593.0	49.0	0.0	642.0	104.0	94.0	156.0	354.0
8+340	643.0	28.0	0.0	671.0	116.0	225.0	156.0	497.0
8+360	646.0	24.0	0.0	670.0	116.0	350.0	156.0	622.0
8+380	619.0	39.0	0.0	658.0	113.0	354.0	156.0	623.0
8+400	634.0	57.0	0.0	691.0	110.0	295.0	156.0	561.0
8+402.478	85.9	9.8	0.0	95.7	13.6	30.5	20.7	64.8
8+420	661.5	89.4	0.0	750.8	96.4	173.5	155.1	424.9
8+440	880.0	124.0	0.0	1004.0	108.0	110.0	175.0	393.0
8+460	999.0	146.0	0.0	1145.0	106.0	44.0	174.0	324.0
8+480	1047.0	157.0	0.0	1204.0	105.0	17.0	182.0	304.0
8+500	964.0	163.0	0.0	1127.0	98.0	12.0	189.0	299.0
8+508.449	363.3	67.6	0.0	430.9	38.9	8.0	76.0	122.9
8+520	459.2	82.6	0.0	541.7	52.6	19.6	98.8	171.0
8+540	599.0	101.0	0.0	700.0	83.0	55.0	163.0	301.0
8+560	328.0	51.0	0.0	379.0	71.0	85.0	145.0	301.0
8+580	182.0	29.0	0.0	211.0	60.0	98.0	83.0	241.0
8+591.340	77.1	13.6	0.0	90.7	27.2	61.8	39.1	128.1
8+600	52.8	10.4	0.0	63.2	18.6	58.9	46.8	124.3
8+620	118.0	24.0	0.0	142.0	43.0	150.0	105.0	298.0
8+636.525	87.6	22.3	0.0	109.9	36.6	128.1	74.4	233.0
8+640	18.1	6.1	0.0	24.1	5.1	25.4	16.3	47.1
8+660	109.0	40.0	0.0	149.0	37.0	212.0	102.0	351.0
8+666.608	36.7	13.2	0.0	49.9	15.2	104.1	31.4	150.7
8+680	71.6	26.8	0.0	98.4	30.8	227.0	38.8	296.6
8+700	105.0	40.0	0.0	145.0	46.0	349.0	23.0	418.0
8+720	107.0	41.0	0.0	148.0	46.0	329.0	48.0	423.0
8+740	106.0	42.0	0.0	148.0	44.0	275.0	71.0	390.0
8+760	104.0	41.0	0.0	145.0	45.0	258.0	68.0	371.0
8+780	102.0	39.0	0.0	141.0	45.0	252.0	65.0	362.0
8+800	103.0	39.0	0.0	142.0	45.0	220.0	62.0	327.0
8+820	112.0	40.0	0.0	152.0	52.0	210.0	59.0	321.0
8+840	116.0	39.0	0.0	155.0	58.0	243.0	56.0	357.0
8+860	113.0	37.0	0.0	150.0	59.0	264.0	53.0	376.0
8+880	107.0	34.0	0.0	141.0	60.0	252.0	51.0	363.0
8+900	104.0	33.0	0.0	137.0	60.0	239.0	48.0	347.0
8+920	103.0	34.0	0.0	137.0	59.0	213.0	45.0	317.0
8+940	97.0	33.0	0.0	130.0	58.0	190.0	43.0	291.0
8+960	95.0	33.0	0.0	128.0	58.0	179.0	42.0	279.0
8+980	94.0	34.0	0.0	128.0	53.0	154.0	41.0	248.0
9+000	110.0	35.0	0.0	145.0	58.0	124.0	38.0	220.0
9+018.139	117.9	31.7	0.0	149.6	63.5	102.5	31.7	197.7
SUBTOTAL	15386.3	2221.5	0.0	17607.7	3646.7	13924.9	5519.5	23091.2

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3 OF 5

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB22
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE 700 THIRD STREET SOUTH MINNEAPOLIS, MN 55415 (612)370-0700 (TEL) (612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMPS
TABULATED QUANTITIES
EARTHWORK TABULATION

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO. 13 / 539

PLOT DATE: Aug 25, 4 4:54pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242\ .dwg

EARTHWORK TABULATION

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)				
	COMMON	SUBGRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	GRANULAR	TOTAL FILL
SAP 02-618-24									
COON CREEK BOULEVARD (CSAH 18)									
1+180	-	-		-	-	-	-	-	-
1+200	85.0	0.0	0.0	85.0	65.0	53.0	0.0	34.0	118.0
1+220	140.0	0.0	0.0	140.0	61.0	159.0	2.0	68.0	290.0
1+240	96.0	0.0	0.0	96.0	59.0	210.0	36.0	68.0	373.0
1+260	86.0	0.0	0.0	86.0	56.0	181.0	42.0	68.0	347.0
1+276.708	81.0	0.0	0.0	81.0	47.6	108.6	6.7	65.2	218.1
1+300	118.8	0.0	0.0	118.8	41.9	72.2	0.0	88.5	202.6
1+320	100.0	0.0	0.0	100.0	33.0	23.0	0.0	61.0	117.0
1+340	94.0	0.0	0.0	94.0	44.0	117.0	0.0	57.0	218.0
1+420	61.0	0.0	0.0	61.0	31.0	103.0	0.0	57.0	191.0
1+440	50.0	0.0	0.0	50.0	2.0	0.0	0.0	58.0	60.0
1+460	64.0	0.0	0.0	64.0	0.0	0.0	0.0	58.0	58.0
1+480	66.0	0.0	0.0	66.0	0.0	0.0	0.0	58.0	58.0
1+500	79.0	0.0	0.0	79.0	0.0	0.0	0.0	58.0	58.0
1+520	91.0	0.0	0.0	91.0	0.0	0.0	0.0	58.0	58.0
SUBTOTAL	**1211.8**	**0.0**	**0.0**	**1211.8**	**396.5**	**1026.8**	**86.7**	**856.7**	**2366.7**

EARTHWORK TABULATION

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBGRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SAP 114-127-02								
NORTHDALE BOULEVARD								
0+740	-	-	-	-	-	-	-	-
0+760	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0+780	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0+800	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0+820	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0+840	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0+860	63.0	0.0	0.0	63.0	15.0	25.0	0.0	40.0
0+880	128.0	0.0	0.0	128.0	30.0	46.0	0.0	76.0
0+900	129.0	0.0	0.0	129.0	27.0	30.0	0.0	57.0
0+920	124.0	0.0	0.0	124.0	21.0	17.0	0.0	38.0
0+943.302	136.3	0.0	0.0	136.3	14.0	10.5	0.0	24.5
0+960	101.5	0.0	0.0	101.5	6.0	0.3	0.0	6.3
0+980.500	802.6	0.0	0.0	802.6	24.6	0.0	0.0	24.6
1+019.500	1866.2	0.0	0.0	1866.2	17.6	0.0	0.0	17.6
1+040	1072.2	0.0	0.0	1072.2	22.6	0.0	0.0	22.6
1+060	1452.0	0.0	0.0	1452.0	52.0	0.0	0.0	52.0
1+080	1693.0	0.0	0.0	1693.0	62.0	0.0	0.0	62.0
1+100	1696.0	0.0	0.0	1696.0	62.0	0.0	0.0	62.0
1+120	1618.0	0.0	0.0	1618.0	60.0	0.0	0.0	60.0
1+140	1619.0	0.0	0.0	1619.0	45.0	0.0	0.0	45.0
1+146.018	492.3	0.0	0.0	492.3	9.0	0.0	0.0	9.0
1+160	1038.9	0.0	0.0	1038.9	30.1	0.0	0.0	30.1
1+180	1213.0	0.0	0.0	1213.0	51.0	0.0	0.0	51.0
1+200	1014.0	0.0	0.0	1014.0	44.0	0.0	0.0	44.0
1+220	931.0	0.0	0.0	931.0	40.0	0.0	0.0	40.0
1+240	823.0	0.0	0.0	823.0	38.0	0.0	0.0	38.0
1+242.708	98.6	0.0	0.0	98.6	3.5	0.0	0.0	3.5
1+260	495.4	0.0	0.0	495.4	17.3	0.0	0.0	17.3
1+280	163.5	0.0	0.0	163.5	9.8	0.0	0.0	9.8
SUBTOTAL	**18770.5**	**0.0**	**0.0**	**18770.5**	**701.5**	**128.8**	**0.0**	**830.3**

EARTHWORK TABULATION

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBGRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SAP 114-136-02								
124TH AVENUE / CROOKED LAKE BOULEVARD								
1+300	-	-	-	-	-	-	-	-
1+319.686	21	0	0	21	5	5	0	0
1+324.179	15	0	0	15	3	3	0	0
1+329.130	24	0	0	24	2	2	0	0
1+340	51.1	0.0	0.0	51.1	6.0	2.7	0.0	8.7
1+348.394	37.4	0.0	0.0	37.4	4.6	2.1	0.0	6.7
1+351.803	14.8	0.0	0.0	14.8	1.4	0.7	0.0	2.1
1+360	33.2	0.0	0.0	33.2	4.5	2.5	0.0	7.0
1+367.221	30.3	0.0	0.0	30.3	2.2	1.1	0.0	3.3
1+372.329	17.9	0.0	0.0	17.9	1.3	0.5	0.0	1.8
1+381.131	40.9	0.0	0.0	40.9	8.8	5.7	0.0	14.5
1+400	127.4	0.0	0.0	127.4	47.2	57.6	0.0	104.8
1+409.919	48.6	0.0	0.0	48.6	17.4	24.8	0.0	42.2
1+411.723	5.7	0.0	0.0	5.7	0.0	0.1	0.0	0.1
1+420	54.6	0.0	0.0	54.6	7.4	11.2	0.0	18.6
1+440	265.0	0.0	0.0	265.0	29.0	28.0	0.0	57.0
1+460	340.0	0.0	0.0	340.0	23.0	4.0	0.0	27.0
1+480	387.0	0.0	0.0	387.0	27.0	4.0	0.0	31.0
1+500	419.0	0.0	0.0	419.0	22.0	4.0	0.0	26.0
1+520	430.0	0.0	0.0	430.0	16.0	4.0	0.0	20.0
1+540	412.0	0.0	0.0	412.0	18.0	4.0	0.0	22.0
1+560	353.0	0.0	0.0	353.0	18.0	4.0	0.0	22.0
1+580	310.0	0.0	0.0	310.0	17.0	4.0	0.0	21.0
1+600	248.0	0.0	0.0	248.0	14.0	4.0	0.0	18.0
1+620	194.0	0.0	0.0	194.0	11.0	4.0	0.0	15.0
1+640	176.0	0.0	0.0	176.0	10.0	4.0	0.0	14.0
1+660	155.0	0.0	0.0	155.0	10.0	4.0	0.0	14.0
1+680	124.0	0.0	0.0	124.0	10.0	4.0	0.0	14.0
1+700	126.0	0.0	0.0	126.0	10.0	4.0	0.0	14.0
1+720	163.0	0.0	0.0	163.0	10.0	4.0	0.0	14.0
1+740	219.0	0.0	0.0	219.0	11.0	5.0	0.0	16.0
1+760	189.0	0.0	0.0	189.0	11.0	6.0	0.0	17.0
1+771.656	53.0	0.0	0.0	53.0	4.1	3.5	0.0	7.6
1+780	43.8	0.0	0.0	43.8	2.9	4.2	0.0	7.1
1+793.194	135.9	0.0	0.0	135.9	4.6	11.2	0.0	15.8
1+800	85.8	0.0	0.0	85.8	4.4	11.2	0.0	15.6
1+820	170.0	0.0	0.0	170.0	23.0	123.0	0.0	146.0
1+824.273	22.2	0.0	0.0	22.2	3.6	43.6	0.0	47.2
1+840	88.9	0.0	0.0	88.9	15.7	166.7	0.0	182.4
1+860	110.0	0.0	0.0	110.0	34.0	183.0	0.0	217.0
1+880	93.0	0.0	0.0	93.0	28.0	85.0	0.0	113.0
1+890.104	42.4	0.0	0.0	42.4	9.1	11.1	0.0	20.2
1+900	21.3	0.0	0.0	21.3	4.5	5.9	0.0	10.4
BASEMENT FILL						4130.0		
BERM NORTH OF 124TH					115.9	575.2		
BERM WEST OF CL BLVD					591.2	4345.5		
SUBTOTAL	**5898.2**	**0.0**	**0.0**	**5898.2**	**1218.8**	**9913.1**	**0.0**	**13541**

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4 OF 5

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	9/29/00	MOD. REQ. #69: MOD. ND BLVD EARTHWORK QUANTITIES
2	JJL	11/29/00	MOD. REQ. #72: MOD. E.W. FOR BERM WEST OF CL BLVD
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB23
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BLVD, NORTHDALE BLVD,
124TH AVE/CROOKED LAKE BLVD
TABULATED QUANTITIES
EARTHWORK TABULATION
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 14 / 539

PLOT DATE: Aug 25, 4 4:56pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242t.dwg

EARTHWORK SUMMARY (NEAT VOLUMES BASED UPON CROSS-SECTIONS)

TABLE 1
P

NOTES	ITEM	UNIT	CSAH 14 SAP 02-614-19 SAP 114-020-19	INTERCHANGE SP 0212-40 SP 114-010-11	TH 242 SP 0212-40 SP 114-010-11	COON CREEK BOULEVARD SAP 02-618-24	NORTHDALE BOULEVARD SAP 114-127-02	CROOKED LAKE BOULEVARD SP 114-136-02	PROJECT TOTALS
	EXCAVATION								
	COMMON EXCAVATION (TOPSOIL) (EV)	m3	9090	15660	11499 (1)	576	2609	1853	41287
	COMMON EXCAVATION (REGULAR) (EV)	m3	79012	15690	86570 (2)	636	16162	4044	202114
	SUBGRADE EXCAVATION (EV)	m3	0	3987	862	0	0	0	4849
	MUCK EXCAVATION (EV)	m3	0	0	136189	0	0	0	136189
	EMBANKMENT								
	GRANULAR BORROW (CV)	m3	0	0	45189	857	0	0	46046
	SELECT GRANULAR BORROW (CV)	m3	0	15171	9318	87	0	0	24576
	SELECT GRAN BORROW MOD 5% (CV)	m3	0	0	110468	0	0	0	110468
	SELECTED GRADING (CV)	m3	23573	109335	39572	1027	129	9912 (4)	183548
	LIGHTWEIGHT FILL (CV)	m3	0	0	9969	0	0	0	9969
	TOPSOIL REQUIRED (CV)	m3	3160	9945	7715 (3)	397	702	1219 (5)	23138

TABLE 1 NOTES:
1. INCLUDES 5 495 m3 FOR EXCAVATION OF THE POND AND BERM EAST OF COON CREEK BOULEVARD
2. INCLUDES 76 197 m3 FOR EXCAVATION OF THE POND AND BERM EAST OF COON CREEK BOULEVARD
3. INCLUDES 2 764 m3 FOR EMBANKMENT FOR THE POND EAST OF COON CREEK BOULEVARD
4. INCLUDES 4 920 m3 FOR BERM CONSTRUCTION AND 4130 m3 FOR FILLING BASEMENTS
5. INCLUDES 707 m3 FOR BERM CONSTRUCTION

EARTHWORK BALANCE

TABLE 2
P

NOTES	ITEM	UNIT	CSAH 14 SAP 02-614-19 SAP 114-020-19	INTERCHANGE SP 0212-40 SP 114-010-11	TH 242 SP 0212-40 SP 114-010-11	COON CREEK BOULEVARD SAP 02-618-24	NORTHDALE BOULEVARD SAP 114-127-02	CROOKED LAKE BOULEVARD SP 114-136-02	PROJECT TOTALS
1	TOPSOIL REQUIRED (EV)	m3	4108	12929	10030	515	913	1585	30080
2	TOPSOIL MATERIAL GENERATED (EV)	m3	9090	15660	11499	576	2609	1853	41287
	COMMON EXCAVATION (REGULAR) (EV)	m3	79012	15690	86570	636	16162	4044	202114
	SUBGRADE EXCAVATION (EV)	m3	0	3987	862	0	0	0	4849
3	ON-SITE MATERIAL AVAILABLE FOR EMBANKMENT (EV)	m3	83994	22407	88901	697	17858	4312	218169
4	EMBANKMENT MATERIAL REQUIRED (EV)	m3	28288	141202	47486	1232	155	11894	220257
5	GRANULAR BORROW (CV)	m3	0	0	0	857	0	0	857
	SELECT GRANULAR BORROW (CV)	m3	0	15171	9318	87	0	0	24576
	LIGHT WEIGHT FILL (CV)	m3	0	0	9969	0	0	0	9969
	MUCK EXCAVATION AREA								
6	MUCK EXCAVATION (EV)	m3	0	0	163427	0	0	0	163427
7	SELECT GRANULAR BORROW MOD 5% (CV)	m3	0	0	137706	0	0	0	137706
	GRANULAR MATERIAL REQUIRED (CV)	m3	0	0	45189	0	0	0	45189
8	GRANULAR BORROW REQUIRED (CV)	m3	0	0	46929	0	0	0	46929

TABLE 2 NOTES:
1. 150 mm TOPSOIL PLACEMENT WITH A SHRINKAGE FACTOR OF 1.3 FROM EV TO CV
2. ASSUMES UPPER 200 mm OF ON-SITE MATERIAL IS SUITABLE FOR TOPSOIL STRIPPING
3. EXCESS TOPSOIL, REGULAR COMMON EXCAVATION AND SUBGRADE EXCAVATION
4. INCLUDES FACTOR OF 1.2 FROM CV TO EV
5. UTILIZE BELOW SELECT GRANULAR BORROW
6. INCLUDES A FACTOR OF 1.2 TO ACCOUNT FOR SLOUGHING (RESULTS IN ADDITIONAL 27 238 m3 EV)
7. SAND HAVING LESS THAN 5% BY WEIGHT PASSING THE 0.075 mm SIEVE. INCLUDES ADDITIONAL 27 238 m3 (EV) TO ACCOUNT FOR SUBSIDENCE AND SLOUGHING OF MUCK EXCAVATION.
8. EQUAL TO GRANULAR MATERIAL REQUIRED LESS FILL MATERIAL AVAILABLE, WHERE FILL MATERIAL AVAILABLE = 218 169 m3 (EV) - 220 257 m3 (EV) = -2 088 m3 (EV) / 1.2 = -1 740 m3 (CV), AND GRANULAR BORROW REQUIRED = 45 189 m3 (CV) + 1 740 m3 (CV) = 46 929m3 (CV)

EARTHWORK QUANTITIES

TABLE 3
P

NOTES	SPEC NO.	ITEM		UNIT	CSAH 14 SAP 02-614-19 SAP 114-020-19	INTERCHANGE SP 0212-40 SP 114-010-11	TH 242 SP 0212-40 SP 114-010-11	COON CREEK BOULEVARD SAP 02-618-24	NORTHDALE BOULEVARD SAP 114-127-02	CROOKED LAKE BOULEVARD SP 114-136-02	PROJECT TOTALS
1	2105.501	COMMON EXCAVATION (EV)	(P)	m3	85224 (4)	21711 (5)	88464 (6)	696	17858	4312	218265
	2105.505	MUCK EXCAVATION (EV)		m3	0	0	163427	0	0	0	163427
	2105.507	SUBGRADE EXCAVATION (EV)	(P)	m3	0	3987	862	0	0	0	4849
	2105.521	GRANULAR BORROW (CV)	(P)	m3	0	0	0	857	0	0	857
2	2105.521	GRANULAR BORROW (LV)		m3	2588 (7)	0	74541 (8)	0	0		77129
	2105.522	SELECT GRANULAR BORROW (CV)	(P)	m3	0	15171	9318	87	0	0	24576
2	2105.522	SELECT GRAN BORROW MOD 5% (LV)		m3	0	9975 (9)	206559	0	0	0	216534
	2105.535	SALVAGED TOPSOIL (EV)	(P)	m3	4108	12929	10030	515	913	1585	30080
	2105.607	TOPSOIL PLACEMENT (CV)	(P)	m3	3160	9945	7715	397	702	1219	23138
	2105.607	WOOD CHIPS (LV)		m3	0	0	9969	0	0	0	9969

TABLE 3 NOTES:
1. INCLUDES REGULAR COMMON EXCAVATION PLUS EXCESS TOPSOIL MATERIAL
2. INCLUDES SHRINKAGE FACTOR OF 1.5 FROM LV TO CV
3. INCLUDES SHRINKAGE FACTOR OF 1.3 FROM EV TO CV
4. INCLUDES 1230 m3 FOR TEMPORARY PAVEMENT
5. INCLUDES 95 m3 FOR CONSTRUCTION OF TEMPORARY PAVEMENT AND 3195 m3 FOR BRIDGE STRUCTURE EXCAVATION
6. INCLUDES 423 m3 FOR CONSTRUCTION OF TEMPORARY PAVEMENT
7. INCLUDES 2588 m3 FOR CONSTRUCTION OF TEMPORARY PAVEMENT
8. INCLUDES 3148 m3 FOR CONSTRUCTION OF TEMPORARY PAVEMENT
9. INCLUDES 9975 m3 FOR BRIDGE ABUTMENT BACKFILL

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	2/16/00	ADDEN MODIFIED TABLE 2, NOTE 7.
2	JJL	6/28/00	MOD.REQ.#SD631: CHANGED TOPSOIL TO A PLAN QUANTITY & REMOVED SUBGRADE EX & SELECT GRANULAR BORROW FROM CSAH 14
3	JJL	6/30/00	MOD.REQ.#19A: ADDED EARTHWORK FOR BERM NEAR POND
4	JJL	7/5/00	MOD.REQ.#36: REVISED MENARDS ENTRANCE, REMOVED RETAINING WALL
5	JJL	9/29/00	MOD.REQ.#69: MOD. ND BLVD EARTHWORK QUANTITIES
6	JJL	11/29/00	MOD.REQ.#72: MOD. BERM WEST OF CL BLVD
7	JJL	7/17/01	MOD.REQ.#74: REVISED POND EARTHWORK
8	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33B89028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB24
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/TH 242
TABULATED QUANTITIES
EARTHWORK SUMMARY
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 15 / 539

5 OF 5

PLOT DATE: Aug 24 4:59pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242 .dwg

PBOX

THE FOLLOWING STANDARD PLATES, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT

STANDARD PLATES

PLATE NO.	DESCRIPTION
M3000	REINFORCED CONCRETE PIPE (5 SHEETS)
M3006	GASKET JOINT FOR R.C. PIPE (2 SHEETS)
M3007	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
M3014	REINFORCED CONCRETE PIPE ARCH
M3022	PRECAST CONCRETE END SECTION (3 SHEETS)
M3100	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
M3110	CONCRETE APRON FOR REINFORCED CONCRETE PIPE-ARCH
M3128	SAFETY APRON
M3133	RIPRAP AT RCP OUTLETS
M3139	RIPRAP AT PRECAST CONCRETE END SECTIONS
M3145	CONCRETE PIPE TIES
M4005	MANHOLE OR CATCH BASIN (TYPE A & B)
M4007	PRECAST MECHANICAL JOINT SEWER MANHOLE
M4010	CONC. SHORT CONE & ADJUSTING RING (SECTIONAL CONCRETE)
M4011	PRECAST CONCRETE BASE
M4018	MANHOLE OR CATCH BASIN REDUCER CONE SECTION
M4020	MANHOLE OR CATCH BASIN COVER
M4101	RING CASTING FOR MANHOLE OR CATCH BASIN
M4110	COVER CASTING FOR MANHOLE
M4126	CATCH BASIN FRAME CASTING
M4129	CATCH BASIN FRAME CASTING (FOR SQUARE GRATE)
M4132	CATCH BASIN FRAME CASTING
M4134	CURB BOX CASTING FOR CATCH BASIN
M4143	STOOL GRATE AND CONCRETE FRAME (MEDIAN DRAINS)
M4149	GRATE CASTING FOR CATCH BASIN
M4154	CATCH BASIN GRATE CASTING
M4160	CURB BOX CASTING FOR CATCH BASIN
M4161	CURB BOX CASTING FOR CATCH BASIN
M4180	MANHOLE OR CATCH BASIN STEP
M7035	CONCRETE WALK & CURB RETURNS AT ENTRANCES
M7036	PEDESTRIAN CURB RAMP
M7100	CONCRETE CURB & GUTTER
M7102	CONCRETE CURB & GUTTER
M7107	CONCRETE ENTRANCE NOSE
M7109	MEDIAN NOSE AND ISLAND
M7111	INSTALLATION OF CATCH BASIN CASTINGS
M7113	CONCRETE APPROACH NOSE DETAIL

STANDARD PLATES

PLATE NO.	DESCRIPTION
M8000	STANDARD BARRICADES
M8002	PERMANENT BARRICADE
M8106	EQUIPMENT PAD B
M8110	TRAFFIC SIGNAL BRACKETING - POLE MOUNTED
M8111	TRAFFIC SIGNAL BRACKETING - PEDESTAL MOUNTED
M8112	PEDESTAL FOUNDATION
M8114	PVC HANDHOLE/ PULLBOX
M8115	PEDESTRIAN PUSH BUTTON INSTALLATION
M8117	PRECAST CONCRETE HANDHOLE
M8118	SERVICE EQUIPMENT AND POLE - TRAFFIC CONTROL SIGNALS
M8119	GROUND MOUNTED CABINET FOUNDATION
M8120	POLE FOUNDATION (PA85)
M8121	TRANSFORMER BASE AND POLE BASE PLATE
M8122	PEDESTAL AND PEDESTAL BASE
M8123	POLE AND MAST ARM
M8124	MAST ARM SIGNAL HEAD MOUNTS
M8126	POLE FOUNDATION (PA90 AND PA100)
M8127	LIGHT BASE - DESIGN E
M8128	LIGHT BASE - DESIGN H
M8130	SAWCUT LOOP DETECTORS
M8140	ROADWAY LIGHTING SERVICE CABINET
M8150	INSTALLATION OF CULVERT MARKERS
M8307	STEEL PLATE BEAM GUARDRAIL (2 SHEETS)
M8318	GUARDRAIL ANCHORAGE PLATE FOR BRIDGES AND BCT'S
M8329	ECCENTRIC LOADER BREAKAWAY CABLE TERMINAL (ELT)
M8337	TEMPORARY PORTABLE PRECAST CONCRETE BARRIER
M9000	APPROACHES AND ENTRANCES
M9102	TURF ESTABLISHMENT AREAS (AT PIPE CULVERT ENDS)

INDEX OF TABULATION CHARTS

SHEET No.	CHART No.	DESCRIPTION
17	A	CLEARING & GRUBBING
17	B	SAWCUT AND MILLING
17	C	RELOCATE MAIL BOX
18	D	FENCE REMOVAL
18	E	SALVAGE HYDRANT AND VALVE
18	F	LIGHTING REMOVALS
18	G	GUARDRAIL SALVAGE AND REMOVAL
18	G2	WATER MAIN REMOVAL
19	H	CONCRETE REMOVAL
19	I	BITUMINOUS REMOVAL
20	J	STORM SEWER AND CULVERT REMOVALS
20	K	SANITARY SEWER REMOVALS
20A	K2	EXISTING UTILITY ADJUSTMENTS-WATER MAIN & SANITARY SEWER
21	L	CURB & GUTTER
21	M	CONCRETE PEDESTRIAN CURB RAMP
21	N	WALK AND CONCRETE PAVEMENT
22	O	BITUMINOUS AND AGGREGATE SUMMARY
11-15	P	EARTHWORK TABULATIONS AND SUMMARY
23	Q	WATER MAIN
331	R	LIGHTING STANDARDS, BASES AND GFI'S
333	S	INTERCHANGE STREET LIGHTING
24	T	SANITARY SEWER
24	W	TURF ESTABLISHMENT
25	X	TEMPORARY EROSION CONTROL
26, 27	Y	EXISTING UTILITIES
216-219	Z	DRAINAGE TABULATION
219	Z2	FURNISH AND INSTALL CASTING ASSEMBLIES
219	Z3	DRAINAGE TABULATION - SPECIAL BRIDGE STORM SEWER
301	AA	PAVEMENT MARKINGS
298-299	AB	FURNISH AND INSTALL SIGN PANELS TYPE C
299	AC	FURNISH AND INSTALL SIGN PANELS TYPE D
300	AD	FURNISH AND INSTALL DELINEATORS AND MARKERS
300	AE	SALVAGE AND INSTALL SIGN PANELS TYPE D AND SPECIAL SIGNS
415	AF	TRAFFIC MANAGEMENT SYSTEM - ESTIMATED QUANTITIES
286	AG	PLANT SCHEDULE

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED STD. PLATE 7108F
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	JJL	12/30/99	ADDED SHEET NUMBERS IN INDEX OF TABULATIONS CHART
3	BJK	7/20/00	MOD. REQ. #11: ADDED PAGE 20A TO INDEX OF TABS
4	BJK	12/4/00	MOD. REQ. #70: ADDED TAB Z3 TO INDEX OF TABS
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242TAB14
DATE: NOVEMBER 5, 1999

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
REMOVALS

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 16 / 539

PLOT DATE: (15.06) R:\33889\33889028\33889E\TABS\242tab14.dwg
DISK FILE NAME: Aug 25, 2004 5:00

CLEARING & GRUBBING — A

STATION TO STATION	LOCATION	CLEARING		GRUBBING	
		TREE	ha	TREE	ha
SAP 02-614-19, SAP 114-020-19					
MAIN ST. (C.S.A.H. 14)					
2+008-2+303	LT	1	.11	1	.11
2+008-2+303	RT	9		9	
2+303-2+614	RT	8		8	
2+614-2+894	RT	7		7	
2+894-3+211	LT	58		52	
SAP 02-614-19, SAP 114-020-19					
TOTAL =		83	.11	77	.11
SP 0212-40, SP 114-010-11					
MAIN ST/TH 242					
3+211-3+344	RT	3		3	
3+538-4+248.576	LT-RT	44	.81	44	.81
RAMP D					
8+610-8+635	RT	3		3	
SP 0212-40, SP 114-010-11 TOTAL =		50	.81	50	.81
SAP 114-127-02					
NORTHDALE BLVD.					
1+030-1+288	LT-RT		.52		.52
1+170-1+280	LT-RT	19		19	
SAP 114-127-02 TOTAL =		19	.52	19	.52
SAP 114-136-02					
124th/CROOKED LAKE BOULEVARD					
1+200	RT	1		1	
1+295	RT	1		1	
1+330-1+400	LT-RT	7		7	
1+425-1+750	LT-RT	56		56	
1+450-1+480	LT-RT		.05		.05
1+695-1+700	LT	2		2	
1+790-1+830	RT	16		16	
SAP 114-136-02 TOTAL =		83	.05	83	.05
PROJECT TOTAL=		235	1.49	229	1.49

RELOCATE MAIL BOX — C

STATION TO LOCATION	RELOCATE MAIL BOX EACH
SAP 114-136-02	
124th/CROOKED LK. BLVD.	
1+380 RT	2
1+422 LT	1
SAP 114-136-02 TOTAL=	3
PROJECT TOTAL =	3

SAWCUT & MILLING — B

STATION TO STATION	LOCATION	BITUMINOUS	CONCRETE	BIT. MILL (50 mm)	BIT. MILL (25 mm)
		m	m	m2	m2
SAP 02-614-19, SAP 114-020-19					
MAIN ST. STA. 2+025	LT-RT	75		45	
MAIN ST. STA. 2+030	RT		3		
RIVER RAPIDS DR. STA. 0+952	LT-RT	25		15	
RIVERDALE BLVD. 0+941	LT-RT	22		13	
RIVERDALE BLVD. 0+941	LT-RT		3		
RIVERDALE BLVD. 0+941	RT	12		7	
RIVERDALE BLVD. 0+941	LT-RT	25		15	
MAIN ST. 2+979-3+074	LT	104		63	
MAIN ST. 3+074-3+096	LT	18	2	11	
MAIN ST. 3+096-3+204	LT	138		82	
SAP 02-614-19, SAP 114-020-19 TOTAL =		419	8	251	
SP 0212-40, SP 114-010-11					
MAIN ST/TH 242					
RAMP A 7+920	LT-RT	5		3	
RAMP B 8+400	RT	3		2	
RAMP B 8+772	LT	3		2	
RAMP B 8+400-8+772	LT-RT	372		210	
RAMP C 7+545	LT	3		2	
RAMP C 7+830	RT	3		2	
RAMP C 7+543-7+829	LT-RT	283		170	
RAMP D 9+018	RT	3		2	
RAMP D 8+402-9+018	LT-RT	571		343	
TH 242 3+996-4+017	LT	19	3	11	
TH 242. 4+017-4+248.576	LT-RT				2865
TH 10/47 BENEATH BRIDGE	LT-RT	120			
SP 0212-40, SP 114-010-11 TOTAL =		1385	3	747	2865
SAP 02-618-24					
COON CREEK BLVD.					
1+052-1+200	LT	149		1061	
1+052-1+200	RT			1277	
1+200	LT-RT	19	3	11	
1+275	LT	12		7	
1+520	LT-RT	20		12	
SAP 02-618-24 TOTAL =		200	3	2368	
SAP 114-127-02					
NORTHDALE BOULEVARD					
0+840	LT-RT	47		28	
0+945	LT	33		20	
0+831	LT-RT	26		16	
0+750	RT	9	2	5	
0+700-0+784	LT	33		20	
0+815-0+831	LT-RT	16		9	
SAP 114-127-02 TOTAL =		164	2	98	

SAWCUT & BITUMINOUS MILLING (CONTINUED) — B

STATION TO STATION	LOCATION	BITUMINOUS	CONCRETE	BIT. MILL (50 mm)	BIT. MILL (25 mm)
		m	m	m	m
SAP 114-136-02					
124th AVE. NW/CROOKED LK. BLVD.					
1+320	LT-RT	10		6	
1+329	LT	5		3	
1+348	LT	6		4	
1+350	RT		5		
1+367	LT	5		3	
1+381	LT	5		3	
1+410	LT	11		6	
1+790	RT		7		
1+821	RT	5		3	
1+893	RT	16	2	10	
HEATHER ST. 0+977	LT-RT	9		6	
GLADIOLA ST. 0+989	LT-RT	9		5	
123rd AVE. 0+080	LT-RT	10		6	
123rd AVE. 0+990	RT		7		
SAP 114-136-02 TOTAL =		91	21	55	
PROJECT TOTAL =		2259	37	2519	2865

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	UPDATED CLEARING AND GRUBBING QUANTITY
2	JJL	5/9/00	MOD. REQ. #26: ADDED CURB REMOVAL QUANTITY CLARIFIED BIT MILLING AREA ON COON CREEK BLVD
3	JJL	7/5/00	MOD.REQ.#35: ADDED CLEAR & GRUB, SAWCUT, & MILL
4	JJL	7/12/00	MOD. REQ. #40: MODIFY MILLING & SAWCUT TABS
5	JJL	8/4/00	MOD. REQ. #53: ADD. SAWCUT UNDER BRIDGE
6	JJL	9/7/00	MOD. REQ. #59: MODIFY MILLING & SAWCUT TABS
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: PJM
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
REMOVALS

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 17 / 539

PLOT DATE: (15.06) R:\33889\33889028\33889E\TABS\242tab01.dwg
DISK FILE NAME: Aug 25, 2004 5:01

LIGHTING REMOVALS — F

STATION	LOCATION	STANDARD & LUMINAIRE EACH	REMARKS
SAP 02–614–19, SAP 114–020–19			
MAIN STREET (CSAH 14)			
3+020	LT	1	
3+025	LT	1	
3+060	LT	1	
3+113	LT	1	
3+118	LT	1	
3+130	LT		
3+136	LT	1	
3+155	LT	2	
SAP 02–614–19, SAP 114–020–19 TOTAL=		9	
SAP 114–127–02			
NORTHDALE BLVD.			
0+830	RT	1	
SAP 114–127–02 TOTAL =		1	
SAP 114–136–02			
124th AVE. NW/CROOKED LAKE BLVD			
1+168	RT	1	
1+270	RT	1	
1+370	RT	1	
1+410	RT	1	
1+590, 1+725, 1+780	LT	3	[1]
SAP 114–136–02 TOTAL=		4	
PROJECT TOTAL =		14	

NOTE: [1] TO BE REMOVED BY POWER COMPANY.

SALVAGE HYDRANT AND VALVE — E

STATION TO STATION	LOCATION	SALVAGE EACH
SAP 02–614–19, SAP 114–020–19		
MAIN STREET (CSAH 14)		
2+930	LT	1
3+010	LT	1
3+115	LT	1
3+170	LT	1
SAP 02–614–19, SAP 114–020–19 TOTAL =		4
SAP 114–127–02		
NORTHDALE BOULEVARD		
0+937	LT	1
SAP 114–127–02 TOTAL =		1
SAP 114–136–02		
124th AVE. NW/CROOKED LK. BLVD.		
1+410	RT	1
1+535	LT	1
1+655	LT	1
SAP 114–136–02 TOTAL =		3
PROJECT TOTAL =		8

FENCE REMOVAL — D

STATION TO STATION	LOCATION	REMOVE WOODEN FENCE m	REMOVE CHAIN LINK FENCE m	SALVAGE & INSTALL CHLK FENCE m
SAP 02–618–24				
COON CREEK BLVD.				
1+415–1+493	LT			84
1+390–1+490	RT			96
SAP 02–618–24 TOTAL =				180
SAP 114–136–02				
124th AVE. N.W./CROOKED LK. BLVD.				
1+500–1+620	CROSSING	153	59	
SAP 114–136–02 TOTAL =		153	59	
PROJECT TOTAL =		153	59	180

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WATER MAIN REMOVAL — G2

STATION TO STATION	LOCATION	WATER MAIN m	STEEL CASING m	PVC SPRINKLER PIPE m	ABANDON WATER MAIN m
SAP 02–614–19, SAP 114–020–19					
MAIN STREET (CSAH 14)					
2+930	LT	2			
3+010	LT	2			
3+045	LT			10	
3+085	LT			10	
3+115	LT	2			
3+138	LT			7	
3+170	LT	2			
SAP 02–614–19, SAP 114–020–19 TOTAL=		8		27	
SP 0212–40, SP 114–010–11					
TH 242					
3+217	RT	2			
3+980 – 4+025	LT		44		
SP 0212–40, SP 114–010–11 TOTAL =		2	44		
SAP 114–127–02					
NORTHDALE BLVD.					
0+937	LT	4			
SAP 114–127–02 TOTAL =		4			
SAP 114–136–02					
124th AVE. NW/CROOKED LAKE BLVD.					
1+410	RT	3			
1+460 – 1+825	LT				391
1+535	LT	1			
1+655	RT	1			
1+775	LT	18			
SAP 114–136–02 TOTAL=		23			
PROJECT TOTAL =		37	44	27	391

GUARDRAIL SALVAGE AND REMOVAL — G

STATION TO STATION	LOCATION	REMOVE m	SALVAGE m	REMOVE IMPACT ATTENUATOR EACH	SALVAGE TWISTED END TREATMENT EACH	REMOVE TWISTED END TREATMENT EACH
SP 0212–40, SP 114–010–11						
TH 242						
3+295.890–3+341.552	LT	46		1		
3+306.900–3+348.666	RT	42		1		
3+416.210–3+461.840	LT	46		1		
3+423.240–3+468.680	RT	46		1		
TH 10/47						
EB 8+044–8+072	RT	28		1		
EB 8+070–8+114	MEDIAN	91				
WB 8+112–8+140	LT	28		1		
SP 0212–40, SP 114–010–11 TOTAL =		327		6		
SAP 02–618–24						
COON CREEK BOULEVARD						
1+408–1+485	LT		69		1	
1+395–1+485	RT		68			1
1+330–1+367	LT		37		1	
1+300–1+338	RT		38			1
SAP 02–618–24 TOTAL =			212		2	2
PROJECT TOTAL =		327	212	6	2	3

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	UPDATED GUARDRAIL REMOVAL TABULATION
			MODIFIED LIGHTING REMOVALS HEADING
			DEL. SALV. DELINEATOR COLUMN FROM GUARDRAIL TAB
			ADDED GUARDRAIL REMOVAL TH10/47 AT TH242 BRIDGE
2	JJL	5/01/00	MOD. REQ. #14: ADDED ABANDON WATER MAIN TO TAB
3	BJK	7/05/00	MOD. REQ. #36: ADDED LIGHTS & PVC SPRINKLER PIPE
4	JJL	8/10/00	MOD. REQ. #57: ADDED WATER MAIN REMOVAL
5	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242TAB04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
REMOVALS

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 18 / 539

3 OF 10

PLOT DATE: Aug 25, 2004 5:02
DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242tab04.dwg

PBOX

CONCRETE REMOVAL — H

STATION TO STATION	LOCATION	CURB & GUTTER	NOSE	WALK	DRIVEWAY PAVEMENT	MEDIAN	SLOPE PAVEMENT	APPROACH PANEL	CONCRETE PAVEMENT
		m	m2	m2	m2	m2	m2	m2	m2
SAP 02-614-19, SAP 114-020-19									
MAIN STREET (CSAH 14)									
STA 2+025-2+085	LT-RT	111		22		50			
STA 2+979-3+204	LT	254							
RIVER RAPIDS DR.	LT-RT	13							
RIVERDALE BLVD.	LT	4							
SAP 02-614-19, SAP 114-020-19 TOTAL =		382		22		50			
SP 0212-40, SP 114-010-11									
MAIN STREET/TH 242									
3+211.712-3+540							426		
4+008	LT	60				48			
242RAMPA		90				29			
242RAMPB		208							
242RAMPC		474	4						
242RAMPD		818	160						
242RAMPD	ISLAND	25				35			
242RAMPD	MEDIAN	285				136			
SP 0212-40, SP 114-010-11 TOTAL =		1960	164			248	426		
SAP 02-618-24									
COON CREEK BLVD.									
1+200-1+420		594		223		169		265	
SAP 02-618-24 TOTAL =		594		223		169		265	
SAP 114-127-02									
NORTHDALE BOULEVARD									
0+750-0+958	LT-RT	562		290	46	417			
SAP 114-127-02 TOTAL =		562		290	46	417			
SAP 114-136-02									
124th AVE. NW/CROOKED LAKE BLVD.									
1+000-1+893		930		191					
1+350-1+735	LT-RT				924				
1+480	LT								27
SAP 114-136-02 TOTAL =		930		191	924				27
PROJECT TOTAL =		4372	164	726	970	884	426	265	27

BITUMINOUS REMOVAL — I

STATION TO STATION	LOCATION	BIT. CURB	SIDEWALK	SHOULDER	PAVEMENT	DRIVEWAY
		m	m2	m2	m2	m2
SAP 02-614-19, SAP 114-020-19						
MAIN STREET (CSAH 14)						
2+007.965-2+303.426		90		299	6613	1016
2+303.426-2+613.573				190	6804	
2+613.573-2+894.240				395	6310	
2+894.240-3+211.712					4576	
2+979-3+204	MENARDS				3391	
RIVER RAPIDS DR. 0+800-1+000		98			689	
RIVER RAPIDS DR. 1+000-1+100						19
RIVERDALE BLVD 0+800-1+000		150			889	
RIVERDALE BLVD. 1+024-1+085					1749	
SAP 02-614-19, SAP 114-020-19						
TOTAL =		338		884	35568 (2)	1035
SP 0212-40, SP 114-010-11						
MAIN STREET/TH 242						
3+212-3+345	LT-RT				1850	
3+419-3+538	LT-RT			220	1325	
RAMP A	LT-RT				1856	
RAMP B	LT-RT			1046	1817	
RAMP C	LT-RT			433	2318	
RAMP D	LT-RT			1398	4242	
3+538-4+038	LT-RT	139		2263	6828	
TH 10/47 BENEATH BRIDGE	LT-RT			70		
SP 0212-40, SP 114-010-11						
TOTAL =		139		5430	23909 (3)	
SAP 02-618-24						
COON CREEK BOULEVARD						
	LT-RT	280		649	4937	52
SAP 02-618-24 TOTAL =		280		649	4937	52
SAP 114-127-02						
NORTHDALE BLVD.						
0+750-0+831		24			835	219
0+840-0+976					3240	
SAP 114-127-02 TOTAL =		24			4075	219
SAP 114-136-02						
124th AVE. NW/CROOKED LAKE BLVD.						
1+324-1+926		572	181		8671	563
SAP 114-136-02 TOTAL =		572	181		8671	563
PROJECT TOTAL =		1353	181	6963	77160 (1)	1869

NOTES:
(1) FOR ALL BITUMINOUS PAVEMENT REGARDLESS OF DEPTH
(2) INCLUDES 4547 m2 FOR TEMPORARY PAVEMENT
(3) INCLUDES 3673 m2 FOR TEMPORARY PAVEMENT

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	5/09/00	MOD. REQ. #26: ADDED BIT CURB REMOVAL QUANTITY
2	JJL	6/01/00	MOD. REQ. #27: ADDED CONC. & BIT D/W REMOVAL
3	BJK	7/05/00	MOD. REQ. #36: ADDED C&G, CONC PAVE, BIT PAVE REM
4	JJL	7/12/00	MOD. REQ. #40: MODIFY BIT REMOVAL TABS
5	JJL	8/04/00	MOD. REQ. #53: ADD PAVE REMOVAL UNDER BRIDGE
6	JJL	9/07/00	MOD. REQ. #59: MOD. CURB AND DRIVEWAY REMOVALS
7	JJL	9/08/00	MOD. REQ. #65: MOD. CONCRETE & D/W REMOVAL
8	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: PJM
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
REMOVALS

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 19 / 539

PLOT DATE: (15.06) R:\33889\33889028\33889E\TABS\242tab03.dwg
DISK FILE NAME: Aug 25, 2004 5:0

STORM SEWER AND CULVERT REMOVALS

J

STATION	LOCATION	ITEM INPLACE	REMOVE STORM PIPE m	REMOVE PIPE CULVERT m	REMOVE CATCH BASIN EACH	REMOVE APRON EACH	ABANDON STORM PIPE m	SALVAGE STORM PIPE m	SALVAGE CATCH BASIN EACH
SAP 02-614-19, SAP 114-020-19									
MAIN STREET (CSAH 14)									
ROUND LAKE BLVD.	RT	825 mm RCP	21			1			
ROUND LAKE BLVD.	RT	525 mm RCP					12		
2+048	CROSSING	600 mm RCP	32		2	1			
2+048-2+130	LT	750 mm RCP	82						
3+015	LT	375 mm RCP		26		2			
3+114 (CB 78C)	LT	375 mm RCP			1			59.5	
3+120	LT	450 mm RCP		21		2			
3+167 (CB 85A)	LT	375 mm RCP						10.3	1
RIVER RAPIDS DR.	LT-RT	375 mm RCP			2		17		
RIVERDALE BLVD.	RT	375 mm RCP			1		12		
SAP 02-614-19, SAP 114-020-19									
TOTAL =			135	47	6	6	41	69.8	1
SP 0212-40, SP 114-010-11									
MAIN STREET (TH 242)									
3+775	RT	900 mm CMP		20		2			
3+800	CROSSING	1200 mm CMP		40		2			
3+855	LT	900 mm CMP		15		2			
4+015	RT	900 mm CMP		18		2			
4+015	RT	900 mm CMP		16		2			
4+015	LT	900 mm CMP		57		2			
RAMP B									
8+250	CROSSING					2			
8+380	RT	600 mm RCP		6		2			
8+405	RT	300 mm RCP	3		1	1			
RAMP C									
7+840	LT	300 mm RCP	3		1	1			
7+895	CROSSING	600 mm RCP		18		2			
RAMP D									
8+185	RT	300 mm RCP	3		1	1			
8+190	CROSSING	450 mm RCP	33		1	2			
8+285	LT	450 mm RCP		17		2			
8+295	LT	300 mm RCP	4		1	1			
8+325	LT	450 mm RCP		25		2			
SP 0212-40, SP 114-010-11									
TOTAL =			45	242	5	32 (1)			
SAP 02-618-24									
COON CREEK BLVD.									
1+275	LT	300 mm RCP	10		1				
1+275	CROSSING	375 mm RCP	29		2				
1+280-1+330	RT	450 mm RCP	52						
SAP 02-618-24									
TOTAL =			91		3				
SAP 114-127-02									
NORTHDALE BOULEVARD									
0+830 - 0+850	RT	300 mm RCP	23		1				
SAP 114-127-02									
TOTAL =			23		1				

STORM SEWER AND CULVERT REMOVALS (CONTINUED)

J

STATION	LOCATION	ITEM INPLACE	REMOVE STORM PIPE m	REMOVE PIPE CULVERT m	REMOVE CATCH BASIN EACH	REMOVE APRON EACH	ABANDON STORM PIPE m	SALVAGE STORM PIPE m	SALVAGE CATCH BASIN EACH
SAP 114-136-02									
CROOKED LAKE BOULEVARD									
1+560	LT	300 mm RCP	9		2	1			
1+775	LT	450 mm RCP		12		2			
1+825	LT	450 mm CMP		14		2			
1+880	LT	375 mm RCP	9		1	1			
SAP 114-136-02 TOTAL =			18	26	3	6			
PROJECT TOTAL =			312	315	18	44	41	69.8	1

NOTES: (1) INCLUDES 4 APRONS FOR 600 mm RCP CULVERTS BENEATH BRIDGE OVER TH 10/47

SANITARY SEWER REMOVALS

K

STATION	LOCATION	ITEM INPLACE	REMOVE SEWER PIPE m	REMOVE FORCE MAIN m	REMOVE MANHOLE EACH	REMOVE LIFT STA. EACH	REMOVE CASING m
SAP 02-614-19, SAP 114-020-19							
MAIN STREET (CSAH 14)							
2+906-2+926	LT	250 mm PVC	20				
2+925	LT	200 mm PVC	15				
3+100	LT					1	
3+100	LT	50 mm PVC		8			
3+100	LT	200 mm					8
3+100-3+211	LT	50 mm PVC		113			
3+100-3+211	LT	200 mm					113
SAP 02-614-19, SAP 114-020-19							
SUBTOTAL =			35	121		1	121
SP 0212-40, SP 114-010-11							
MAIN STREET (TH 242)							
3+213	CROSSING	50 mm PVC		58			
3+213	CROSSING	200 mm					58
3+213	CROSSING	250 mm					28
SP 0212-40, SP 114-010-11							
SUBTOTAL =				58			86
SAP 114-136-02							
CROOKED LAKE BOULEVARD							
1+330-1+490	LT	50 mm PVC		207			
1+330-1+490	LT	200 mm					207
1+490	LT				1		
1+490-1+773	LT	200 mm	300				
1+600	LT				1		
1+680	LT				1		
SAP 114-136-02 SUBTOTAL =			300	207	3		207
PROJECT TOTAL =			335	386	3	1	414

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

5 OF 10

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED COLUMN REMOVE CULVERT MARKER
2	JJL	5/25/00	MOD. REQ. #108: ADDED SANITARY SEWER PIPE REMOVAL
3	BJK	7/5/00	MOD. REQ. #38: ADDED COL FOR SALVAGE STORM SEWER
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: PJM
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
REMOVALS

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 20 / 539

PLOT DATE: (15.06) R:\33889\33889028\33889E\TABS\242tab02.dwg
DISK FILE NAME: Aug 25, 2004 5:08

EXISTING UTILITY ADJUSTMENTS - WATERMAIN & SANITARY SEWER

K2

STATION TO STATION	LOCATION	OFFSET	ADJUST VALVE		FRAME & RING CASTING		RECONSTRUCT MANHOLE		
			EXIST ELEV	PROP ELEV	EXIST ELEV	PROP ELEV	EXIST ELEV	PROP ELEV	ELEV DIFF
		m	m	m	m	m	m	m	m
SAP 02-614-19, SAP 114-020-19									
MAIN STREET (CASH 14)									
3+005.749	LT	19.807	266.028	265.834					
3+105.980	LT	19.807	266.081	267.580					
3+108.647	LT	22.855	266.319	267.714					
RIVERDALE BLVD, 0+967.488	LT	4.294	266.025	265.599					
RIVERDALE BLVD, 1+032.008	LT	3.823	266.398	265.351					
RIVERDALE BLVD, 1+033.505	LT	0.959					266.366	265.260	(1.106)
RIVERDALE BLVD, 1+038.470	LT	0.559					266.335	265.253	(1.082)
RIVERDALE BLVD, 1+059.415	RT	8.690					266.394	265.693	(0.701)
SUBTOTAL				5		0			2.889
SAP 114-127-02									
NORTHDALE BOULEVARD									
0+938.195	LT	14.957	264.846	265.015					
SUBTOTAL				1		0			0.000
SAP 114-136-02									
124TH AVE. NW/CROOKED LAKE BLVD.									
(1) 1+026.869	RT	8.376							
(1) 1+049.357	RT	8.362							
(1) 1+340.064	LT	8.935							
1+365.235	RT	5.617	266.028	266.118					
1+369.871	RT	11.751	266.179	265.998					
1+391.996	RT	4.529	266.171	266.195					
(1) 1+395.973	LT	9.328							
1+399.330	RT	7.081	266.235	266.375					
1+399.415	LT	1.117			266.267	266.317			
(1) 1+423.184	LT	22.829							
1+451.642	LT	43.437	266.266	267.034					
1+456.143	LT	36.973	266.131	266.368					
1+774.880	LT	19.954					265.688	264.090	(1.598)
1+822.387	LT	8.698			264.652	264.768			
SUBTOTAL				6		2			1.598
PROJECT TOTALS				12		2			4.487

NOTES: 1. PROTECT EXISTING VALVE OR MANHOLE - NO ADJUSTMENT REQUIRED

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	BJK	7/20/00	MOD REQ #11: ADDED EXISTING UTILITY ADJUSTMENTS TAB
2	JJL	8/10/00	MOD. REQ. #57: REMOVED ONE VALVE ADJUSTMENT
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: PJM
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB02A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 7/19/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
REMOVALS

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 20A / 539

PLOT DATE: (15.06) R:\33889\33889028\33889E\TABS\242tab02A.dwg
DISK FILE NAME: Aug 25, 2004 5:09p

PBOX

CURB & GUTTER

L

PROJECT NO.	ROADWAY	STA. TO STA.	LOCATION	B424 (MOD.)	B618 (MOD.)	B618	B612	B418	D424	SURM. (SPEC.)
				m	m	m	m	m	m	m
SAP 02-614-19	W.B. CSAH 14	2+037-3+212	LT	1149						
SAP 114-020-19		2+031-3+212	RT	1094						
	MENARDS LOT	2+979-3+089	LT				257			
	E.B. CSAH 14	2+031-3+212	LT	1072						
		2+025-3+212	RT	1198						
	RIVER RAPIDS DR.	SOUTH OF TH 242	LT-RT		51	35				
		NORTH OF TH 242	LT-RT				96			
	RIVERDALE BLVD	SOUTH OF TH 242	LT-RT		72	57				
		NORTH OF TH 242	LT-RT				237			
	SUBTOTAL=			4513	123	92	590			
SP 114-010-11	W.B. TH 242	3+212-3+537	LT	213						
SP 0212-40		3+212-3+500	RT	244						
	E.B. TH 242	3+212-3+500	LT	236						
		3+212-3+516	RT	288						
	RAMP B	8+237-8+570	LT						312	
	RAMP C	7+720-7+887	RT						167	
	RAMP D	8+160-8+508	RT	702						
	TH 10/47 UNDER BRIDGE		LT-RT						118	
	SUBTOTAL =			1683					597	
SP 114-010-11	W.B. TH 242	3+537-3+998	LT	509						
SP 0212-40		3+540-3+990	RT	455						
		4+005-4+008	LT			64				
	E.B. TH 242	3+540-3+990	LT	469						
		3+537-3+998	RT	456						
		4+002-4+005	RT							
	SUBTOTAL =			1929		64				
SAP 02-618-24	COON CREEK BLVD.	1+032-1+367	LT			312				
		1+200-1+320	LT-RT			198				
		1+200-1+339	RT			86		53		
	SUBTOTAL =					596		53		
SAP 114-127-02	NORTHDALE BLVD.	0+750-1+288	RT			462				
		0+835-1+288	LT			373				
		0+849-0+977	LT-RT		263		32			
		1+024-1+134	LT-RT		229					
		1+158-1+250	LT-RT		165					
	SUBTOTAL =				657	835	32			
SAP 114-136-02	CROOKED LK/124th	1+320-1+890	LT			580				
		1+324-1+890	RT			627				
	HEATHER STREET	0+977-0+987	LT-RT							26
	SUBTOTAL =					1207				26
	PROJECT TOTAL =			8125	780	2794	622	53	597	26

WALK AND CONCRETE PAVEMENT

N

PROJECT NO.	ROADWAY	STA. TO STA.	LOC.	100 mm CONC. WALK	AGG. BASE CL 5	100 mm CONC. SPEC. 1	AGG. BASE CL 5	100 mm CONC. SPEC. 2	AGG. BASE CL 5	SPEC. WALK	AGG. BASE CL 5	150 mm CONC. D/W PVMT.	AGG. BASE CL 5	200 mm CONC. D/W PVMT.	AGG. BASE CL 5
				m2	m3	m2	m3	m2	m3	m	m3	m	m3	m	m3
SAP 02-614-19	W.B. CSAH 14	2+029-3+118	LT			621	92	677	88	908	447				
SAP 114-020-19	E.B. CSAH 14	2+031-3+212	LT					1527	200						
		2+025-3+212	RT	1607	235	478	70	726	95						
	RIVER RAPIDS DR.	N & S OF TH242	LT-RT	161	23										
	RIVERDALE BLVD	N & S OF TH242	LT-RT	134	19										
	SUBTOTAL=			1902	277	1099	162	2930	388	908	447				
SP 114-010-11	W.B. TH 242	3+212-3+503	LT			72	11	114	15	157	77				
SP 0212-40		3+212-3+253	RT					94	12						
	E.B. TH 242	3+212-3+514	RT	258	37	72	11	428	56						
		3+295-3+498	LT					162	21						
	RAMP D	8+160-8+508	RT	696	105										
	SUBTOTAL =			954	142	144	22	798	104	157	77				
SP 114-010-11	W.B. TH 242	3+537-3+998	LT					385	50	465	229				
SP 0212-40	E.B. TH 242	3+540-4+040	LT					1222	160						
		3+537-4+003	RT	797	116			328	43						
	SUBTOTAL =			797	116			1935	253	465	229				
SAP 02-618-24	COON CREEK BLVD.	1+032-1+338	LT-RT	1382	201										
	SUBTOTAL =			1382	201										
SAP 114-127-02	NORTHDALE BLVD.	0+750-1+288	LT-RT	1004	292										
		0+912.460	RT									41	8		
		0+940	LT									45	8		
		1+085	RT									21	4		
		1+145	RT											144	24
		1+242.116	RT									38	8		
		1+260	LT											46	8
	SUBTOTAL =			2004	292							145	28	190	32
SAP 114-136-02	CROOKED LK/124th	1+017-1+875	RT	1187	171										
		1+330	LT									10	2		
		1+348	LT									9	2		
		1+350	RT									20	4		
		1+370	LT									8	2		
		1+382	LT									8	2		
		1+410	LT									20	4		
		1+795	RT									70	14		
		1+825	RT									8	2		
	SUBTOTAL =			1187	171							153	34		
	PROJECT TOTAL =			8226	1199	1243	184	5663	740	1530	753	298	60	190	32

CONCRETE PEDESTRIAN CURB RAMP

M

PROJECT NO.	ROADWAY	PED. RAMP EACH
SAP 02-614-19, SAP 114-020-19	CSAH 14	23
SP 0212-40, SP 114-010-11	INTERCHANGE	12
SP 0212-40, SAP 114-010-11	TH 242	11
SAP 02-618-24	COON CREEK BOULEVARD	3
SAP 114-127-02	NORTHDALE BOULEVARD	7
SAP 114-136-02	124th/CROOKED LAKE BLVD.	10
	PROJECT TOTAL =	66

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

6 OF 10

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	12/30/99	MOVED QUANTITIES FOR 3+852 D/W TO CORRECT ROW
1			CHANGED TEXT: CONC. APRON TO CONC. D/W PAVEMENT
			REVISED TOTAL CL 5 AGG. FOR 100 mm CONC. SPEC 2
			REVISED TOTAL FOR PED. CURB RAMPS
			DEL. D/W AT 3+852, MODIFIED BIT. & AGG. QUANTITIES
2	JJL	5/09/00	MOD.REQ.#26: ADDED B618 CURB QUANTITY
3	JJL	5/30/00	MOD.REQ.#32: MOD. WALK, CURB, RAMP & D/W QUANT.
4	JJL	6/01/00	MOD.REQ.#27: ADD WALK, SPEC. 1 & 150 mm D/W
5	BJK	7/05/00	MOD. REQ. #36: MOD. QUANT. FOR MENARDS LOT
6	JJL	7/10/00	MOD. REQ. #47: MOD. QUANT. SPEC WALK & CL V
7	JJL	7/14/00	MOD. REQ. #51: MOD. QUANT. CONC. WALK, CL V & CURB
8	JJL	7/31/00	MOD. REQ. #52: MOD. QUANT. CONC. WALK & CL V
9	JJL	8/01/00	MOD. REQ. #55: ADD COLUMN FOR B418, MOD. QUANT.
10	JJL	8/04/00	MOD. REQ. #53: ADD CURB UNDER BRIDGE
11	JJL	8/08/00	MOD. REQ. #56: MOD. WALK QUAN. FOR ND BLVD & 124TH
12	JJL	9/07/00	MOD. REQ. #59: MOD. CURB & GUTTER FOR BANK DRIVE
13	JJL	9/08/00	MOD. REQ. #65: MOD. CONCRETE D/W PAVEMENT
14	JJL	9/12/00	MOD. REQ. #64: ADDED CONC. D/W APRONS AT AMOCO
15	JJL	9/29/00	MOD. REQ. #69: MOD. MEDIAN AND ENTRANCE AT ND BLVD
16	PMJ	4/30/01	MOD. REQ. #86: MODIFIED WALK QUANTITY FOR 124TH.
17	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR/PJM
DESIGN BY: PBD
CHKED. BY: KPK/JJL
DWG. NAME: 242TAB07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 21 / 539

PLOT DATE: (15.06) R:\33889\33889028\33889E\TABS\242tab07.dwg
DISK FILE NAME: Aug 25, 2004 5:12

BITUMINOUS AND AGGREGATE SUMMARY

O

STATION TO STATION	LOC.	INSET	AGG. BASE 2211.503	2360.609														2357.502
			CLASS 5 (CV) (P) m3	SPWEB440F INSET 1 WEAR T	SPNWC430B INSET 1 NON-WEAR T	MVWE35035F INSET 2 WEAR T	MVNW35035F INSET 2 NON-WEAR T	LVWE35030B INSET 3,4,6,15 SHLD. WEAR T	HVWE37540C INSET 5 WEAR T	HVNW37540C INSET 5 NON-WEAR T	MVNW35035B INSET 5 NON-WEAR T	MVWE35035C INSET 7 WEAR T	MVNW35035B INSET 7, 8 NON-WEAR T	HVNW35040B INSET 8 NON-WEAR T	LVNW35030B INSET 3,8 NON-WEAR T	HVWE37540B INSET 8 WEAR T	LVWE35030B INSET 9, 10 WEAR T	LVNW35030B INSET 9, 10 NON-WEAR T	BIT. TACK COAT l
SAP 02-614-19, SAP 114-020-19																				
MAIN STREET (CSAH 14)																				
2+007.965 - 3+211.698	W.B.	1	5165	5389	4042															10549
2+007.965 - 3+211.699	E.B.	1	5316	5555	4166															12077 (3)
MENARDS LOT	LT	9 & 10	836															538	717	1224
RIVER RAPIDS DRIVE		9	150															97	145	189
RIVERDALE VILLAGE BOULEVARD		9	355															237	356	464
SAP 02-614-19, SAP 114-020-19		**TOTAL =**	**11822**	**10944**	**8208**													**872**	**1218**	**24503**
SP 0212-40, SP 114-010-11 (INTERCHANGE)																				
TH 242																				
3+211.698 - 3+540	W.B.	1	1100	1157	868															2267
3+211.698 - 3+540	E.B.	1	1166	1217	912															2382
TH 10/47 BENEATH BRIDGE		15	152					179												
RAMP A																				476
7+920 - 8+185	RT-LT	2	270			244	365													
7+920 - 8+185	SHLD.	4	292					101												
RAMP B																				
8+220 - 8+780	RT-LT	1	1573	1596	1197															3123
RAMP C																				
7+535 - 8+015	RT-LT	2	456			385	369													754
7+535 - 8+015	SHLD.	4	221					81												
7+720 - 7+830	SHLD.	1	111	99	74															193
RAMP D, LEG D1																				
8+049 - 9+059.530	RT-LT	1	3321	3209	2407															6368 (4)
SP 0212-40, SP 114-010-11		**TOTAL =**	**8663**	**7278**	**5458**	**629**	**943**	**361**												**15564**
SP 0212-40, SP 114-010-11																				
TH 242 (EAST OF INTERCHANGE)																				
3+540 - 4+040	W.B.	1	2154	2220	1664															4342
3+540 - 4+040	E.B.	1	2300	2399	1800															4697
4+040 - 4+248.576	W.B.	3	236					219							153					615
4+040 - 4+248.576	E.B.	3	224					243							136					1571 (5)
SP 0212-40, SP 114-010-11		**TOTAL =**	**4914**	**4619**	**3464**			**462**							**289**					**11225**
SAP 02-618-24																				
COON CREEK BLVD (CSAH 18)																				
1+052 - 1+520	RT-LT	5	1053						792	813	626									2448
1+200 - 1+520	SHLD.	6	358					124												
SAP 02-618-24		**TOTAL =**	**1411**					**124**	**792**	**813**	**626**									**2448**
SAP 114-127-02																				
NORTHDALE BOULEVARD																				
0+750.215 - 1+000	RT-LT	8	1270												853	853	526			2570
0+750.215 - 1+000	RT-LT	10	39															21	26	50
1+000 - 1+340	RT-LT	7	1080									672	1259							1643
SAP 114-127-02		**TOTAL =**	**2389**									**672**	**1259**	**853**	**853**	**526**	**21**	**26**	**4263**	
SAP 114-136-02																				
124TH/CROOKED LAKE BLVD																				
1+000.121 - 1+890.110		9&15	1205	(1)				53	(2)									325	1358	1772
HEATHER, GLADIOLA, 123RD AVENUE		10	83															49	61	121
SAP 114-136-02		**TOTAL =**	**1288**					**53**										**954**	**1419**	**1893**
PROJECT TOTALS			**30487**	**22841**	**17130**	**629**	**943**	**1000**	**792**	**813**	**626**	**672**	**1259**	**853**	**1142**	**526**	**1847**	**2663**	**59896**	

NOTES: 1. INCLUDES 39 m3 FOR RESIDENTIAL DRIVEWAYS (INSET 15)
2. INCLUDES 53 T FOR RESIDENTIAL DRIVEWAYS (INSET 15)
3. INCLUDES 1203 l FOR TEMPORARY CONSTRUCTION (INSET 16)
4. INCLUDES 85 l FOR TEMPORARY CONSTRUCTION (INSET 16)
5. INCLUDES 887 l FOR TEMPORARY CONSTRUCTION (INSET 16)

BASIS FOR ESTIMATED QUANTITIES

BITUMINOUS MIXTURE:
BASE = 2.35 kg/m2/mm
BINDER = 2.35 kg/m2/mm
WEAR = 2.35 kg/m2/mm

TACK COAT: 0.23 L / m2 PER LIFT APPLIED

CLASS 5 AGGREGATE: VOLUMES BASED ON END AREAS FROM CROSS SECTIONS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED INSET No. TO NOTES 1 & 2
2	JJL	2/11/00	ADDEND 2 MODIFIED INSET 1 & 2 MIXES
3	JJL	2/16/00	ADDEND 2 MODIFIED MIX DESIGNS
4	JJL	5/9/00	MOD. REQ. #26: MOD. QUANTITIES FOR COON CREEK BLVD
5	JJL	6/01/00	MOD.REQ.#27: MOD. QUANTITIES FOR ND BLVD
6	JJL	7/5/00	MOD.REQ.#36: ADDED PAVEMENT FOR MENARDS LOT
7	JJL	7/12/00	MOD. REQ. #40: MOD. PAVE AT WEST END OF CSAH 14
8	JJL	7/14/00	MOD. REQ. #51: ADD PAVE FOR MARCUS DRIVEWAY
9	JJL	8/04/00	MOD. REQ. #53: ADD. PAVEMENT BENEATH BRIDGE
10	JJL	9/07/00	MOD. REQ. #59: MOD. WELLS FARGO ENTRANCE
11	JJL	9/08/00	MOD. REQ. #65: MOD. RES. DRIVES-CROOKED LAKE BLVD
12	JJL	9/29/00	MOD. REQ. #69: MOD. MEDIAN AND ENTRANCE AT ND BLVD
13	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33B89028
DRAWN BY: JJL | DESIGN BY: JJL
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
BITUMINOUS AND AGGREGATE SUMMARY
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 22 / 539

7 OF 10

DRAWINGS
BOX
(15.06) R:\33889\33889028\33889E\TABS\242tc
Aug 25, 5:14pm

APBOX

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

WATER MAIN

Q

PROJECT NO.	ROADWAY	STATION	LOCATION	CONNECT TO EXISTING EACH	INSTALL HYDRANT & VALVE EACH	HYD.	SALVAGE & INSTALL W. M. m	450 mm DIP CL52 m	400 mm DIP CL52 m	300 mm DIP CL52 m	200 mm DIP CL52 m	150 mm DIP CL52 m	50 mm COPPER PIPE m	750 mm STEEL CASING m	400 mm STEEL CASING m	450 mm VALVE EACH	400 mm VALVE EACH	200 mm GATE VALVE EACH	150 mm GATE VALVE EACH	50 mm CORP STOP EACH	50 mm CURB STOP EACH	300x200 REDUCER EACH	200x150 REDUCER EACH	450x150 WET TAP & SADDLE EACH	450x150 TEE FITTING EACH	400x400 TEE FITTING EACH	400x150 TEE FITTING EACH	200x200 TEE FITTING EACH	200x150 TEE FITTING EACH	50 mm SERVICE TAP EACH	450 mm DIP BEND 45 EACH	450 mm DIP BEND 11 1/4 EACH	300 mm DIP BEND 45 EACH	200 mm DIP BEND 90 EACH	200 mm DIP BEND 45 EACH	150 mm DIP BEND 90 EACH	150 mm DIP BEND 45 EACH	400 mm DIP PLUG EACH	200 mm DIP PLUG EACH	150 mm DIP PLUG EACH	INSUL. m2
SAP 02-614-19	CSAH 14	2+854-2+890	LT						45.7																														
SAP 114-020-19		2+852.624	19.956 LT																																	1.0			
		2+853.858	19.984 LT																						1.0														
		2+853.958	23.204 LT														1.0																						
		2+854.163	30.075 LT																																	1.0			
		2+890.624	19.812 LT	1.0																																			
		2+931.939	19.945 LT																																				1.0	
		3+008.535	19.976 LT	1.0								8.8																											
		3+008.564	28.790 LT		1.0																																		
		3+094.220	28.746 LT		1.0																																		
		3+094.221	19.807 LT	1.0								10.8																								2.0			
		3+115.941	20.946 LT																																				1.0	
	RIVER RAPIDS	0+960	LT																																				
	DRIVE	0+966-1+032	LT				10.9		55.5																														12.0
		0+966.030	3.415 LT	1.0													1.0																						
		1+030.480	5.977 LT									8.8															1.0												
		1+030.498	14.735 LT		1.0																																		
		1+031.401	5.969 LT	1.0																																			
	SUBTOTAL=			5.0	3.0	0.0	10.9	0.0	101.2	0.0	0.0	28.4	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	0.0	2.0	12.0
SP 0212-40	TH 242	3+217	32.5 RT	2.0				2.0																															
SP 114-010-11	SUBTOTAL=			2.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SAP 02-618-24	COON CREEK	0+943-1+033	LT							88.0																													
	BOULEVARD	0+942.880	11.278 LT	1.0																																			
	(CSAH 18)	0+944.607	11.103 LT																																	1.0			
		0+950.454	17.208 LT																																	1.0			
		0+964-1+031	LT											67.3																									
		0+970	LT																																				
		1+035.209	17.054 LT																				1.0																
		1+035-1+117	LT								87.0																													
		1+037-1+047	LT												10.0																									
		1+045	LT																																				
		1+114.524	17.030 LT									2.0																												
		1+114.524	19.010 LT																					1.0																
		1+114.524	19.990 LT																1.0																				
		1+114.524	20.750 LT			1.0																																	
		1+116.913	17.030 LT																																			1.0		
	SUBTOTAL=			1.0	0.0	1.0	0.0	0.0	0.0	88.0	87.0	2.0	0.0	67.3	10.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0	63.0
SAP 114-127-02	NORTHDALE	0+934.258	15.143 LT		1.0																																		
	BOULEVARD	0+934.129	12.437 LT																																	1.0			
		0+937.025	12.602 LT	1.0								4.0																												
		1+024.294	3.286 RT	1.0						6.1																													
		1+030.000	3.285 RT																				1.0																
		1+030-1+273	LT-RT								247.1																													
		1+032.890	3.285 RT															1.0																					
		1+035.389	3.321 LT																																		1.0			
		1+045.420	6.711 RT																																		1.0			
		1+090	6.747 RT									19.1																												
		1+090	14.824 RT																1.0																					
		1+090	25.850 RT																																				1.0	
		1+114.650	6.748 RT									19.1																												
		1+114.650	14.824 RT																1.0																					
		1+114 650	25.850 RT																																				1.0	
		1+205.412	6.750 RT										19.1							1.0																				
		1+205.412	14.823 RT																		1.0																			
		1+225	6.750 RT									23.2																												
		1+225	29.220 RT																1.0																					
		1+225	29.982 RT			1.0																																		
		1+273.350	6.748 RT								2.5																													
		1+273.350	9.250 RT									16.6																												
		1+273.350	14.059 RT																1.0																					
		1+273.350	25.850 RT																																				1.0	
	SUBTOTAL=			2.0	1.0	1.0	0.0	0.0	0.0	6.1	249.6	82.0	19.1	0.0	0.0	0.0	0.0	1.0	4.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0	0.0	0.0	1.0	2.0	1.0	0.0	0.0	0.0	3.0	0.0
SAP 114-136-02	124TH AVE /	1+409.404	0.164 LT	1.0								11.6																											
	CROOKED	1+414.091	9.553 RT																																	1.0			
	LAKE BLVD	1+417.827	10.703 RT																																				
		1+419.363	11.144 RT		1.0																																		
		1+450-1+828	LT - RT					392.2																															
		1+450.454	42.747 L	1.0												1.0																							
		1+454.621	35.192 L	1.0								4.6																											
		1+456.553	38.789 L																																	2.0			
		1+456.873	40.336 L																					1.0															
		1+461.032	39.006 LT																												1.0								
		4+162.110	38.336 LT													1.0																							
		1+483.481	2.502 RT																												1.0								
		1+534.723	2.594 RT																													1.0							
		1+545	LT																																				12.0
		1+556.535	1.995 RT																													1.0							
		1+656.452	2.504 RT									7.9														1.0													
		1+656.274	10.368 RT		1.0																																		
		1+760	LT																																				12.0
		1+773.773	2.502 RT													1.0																							
		1+775.586	4.493 RT	1.0															1.0																				
		1+775.780	2 502 RT																						1.0														
		1+826.814	3.270 LT																													1.0							
		1+827.684	2.851 LT	1.0																																			
		1+875	RT																																				12.0
	SUBTOTAL=			5.0	2.0	0.0	0.0	392.2	0.0	0.0	0.0	24.1	0.0	0.0	0.0	3.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	0.0	.0.0	0.0	0.0	3.0	0.0	0.0	0.0	36.0
PROJECT TOTAL=				15.0	6.0	2.0	10.9	394.2	101.2	94.1	336.6	136.5	19.1	67.3	10.0	3.0	2.0	1.0	6.0	1.0	1.0	2.0	2.0	1.0	2.0	1.0	1.0	1.0	3.0	1.0	3.0	2.0	2.0	1.0	2.0	3.0	3.0	2.0	1.0	5.0	111.0

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	3/21/00	REVISED HYDRANT LOCATION, ADDED 450mm WET TAP
2	JJL	4/17/00	MOD. REQ. #10: MOD. STUB AT NORTHDALE BLVD
3	JJL	5/01/00	MOD. REQ. #14: MOD. WATER MAIN QUANTITIES
4	JJL	5/08/00	MOD. REQ. #24: MOD. QUANTITIES, ADD ITEMS
5	JJL	5/25/00	MOD. REQ. #10RS: ADD WATER MAIN TO NORTHDALE BLVD
6	JJL	8/10/00	MOD. REQ. #57: ADDED WATER MAIN REMOVAL
7	JJL	9/13/00	MOD. REQ. #62: ADD VALVE TO RIVER RADIDS DRIVE
8	JJL	9/20/00	MOD. REQ. #68: MODIFIED WATER MAIN ON 124TH AVENUE
9	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB19
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/TH 242
TABULATED QUANTITIES
WATER MAIN TABULATION

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO. 23 / 539

8 OF 10

PLOT DATE: Aug 25, .4 5:15pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242_____.dwg

TURF ESTABLISHMENT

STATION TO STATION	LOCATION	2575.501 SEEDING AREA	2575.502 SEED MIX 50A	2575.502 SEED MIX 1	2575.502 SEED MIX 2	2575.502 SEED MIX 3	2575.505 SODDING TYPE SALT RESISTANT	2575.511 MULCH MATERIAL TYPE 7	2575.519 DISC ANCHORING	2575.532 COMMERCIAL FERTILIZER ANALYSIS 22-05-10
		ha	kg	kg	kg	kg	m2	t	ha	kg
SAP 02-614-19, SAP 114-020-19										
MAIN STREET (CSAH 14)										
2+007 - 3+212	RT-LT	.27	20.0	0	0	0	19230	1.0	.27	151
SAP 02-614-19, SAP 114-020-19 TOTAL=		.27	20.0	0	0	0	19230	1.0	.27	151
SP 0212-40, SP 114-010-11										
MAIN STREET/TH 242										
3+212 - 4+248.576	RT-LT	12.90	479.5	8.1	177.9	289.0	2830	45.2	12.90	7224
SP 0212-40, SP 114-010-11 TOTAL=		12.90	479.5	8.1	177.9	289.0	2830	45.2	12.90	7224
SP 02-618-24										
COON CREEK BLVD.										
0+920 - 1+520	RT-LT	0	0	0	0	0	3250	0.0	0	0
SP 02-618-24 TOTAL=		0	0	0	0	0	3250	0.0	0	0
SAP 114-127-02										
NORTHDALE BLVD										
0+750 - 1+340	RT-LT	.34	25.2	0	0	0	3238	1.2	.34	190
SAP 114-127-02 TOTAL=		.34	25.2	0	0	0	3238	1.2	.34	190
SAP 114-136-02										
124th AVE/CROOKED LAKE BLVD										
1+000 - 1+890	RT-LT	0.90	23.8	0	42.8	0	3263	3.7	0.90	504
SAP 114-136-02 TOTAL=		0.90	23.8	0	42.8	0	3263	3.7	0.90	504
PROJECT TOTAL =		14.41	548.5	8.1	220.7	289.0	31811	51.1	14.41	8069

BASIS FOR TURF ESTABLISHMENT QUANTITIES
SEED MIX TYPE 50A : 74 kg / ha
SEED MIX TYPES 1, 2, AND 3: 74 kg / ha
TYPE 7 MULCH MATERIAL : 3.5 METRIC TONS / ha
COMMERCIAL FERTILIZER ANALYSIS 22-05-10 : 560 kg / ha

SANITARY SEWER TABULATION

NOTES	STRUCTURE NUMBER	STATION	OFFSET (1)	STRUCT. DESIGN (5)	RIM ELEV.	LOW STRUCT. ELEV.	PAY HEIGHT m	F & I CASTING ASSEMBLY (4)	DRAINS TO STRUCTURE NUMBER	DRAINS TO SLOPE %	150 mm SDR 35 PVC m	200 mm SDR 35 PVC m	250 mm SDR 35 PVC m	250 mm DIP CL 52 m	150 mm PIPE PLUG m	ADJUST FRAME & CASTING EACH	CONNECT TO EXISTING EACH	250 mm OUTSIDE DROP m
MAIN STREET (CSAH 14)																		
SAP 02-614-19, SAP 114-020-19																		
(2)	MH 505	3+100.661	25.640 LT	1200	267.535	263.521	4.014	R-1733	MH 504	0.40			100.7				2	
	MH 504	3+000.000	26.493 LT	1200	266.082	263.113	2.969	R-1733	MH 503	0.40			74.5					
	MH 503	2+925.505	26.493 LT	1200	265.340	260.839	4.501	R-1733	MH 503A	0.40				19.9				
(3)	MH 503A	2+905.576	26.493 LT	1200	264.935	260.639	4.296	R-1733	MH 502	0.40			105.6				2	1.971
	MH 502	2+800.000	26.519 LT	1200	265.100	260.332	4.768	R-1733	MH 501	0.40			100.0					
	MH 501	2+700.000	26.531 LT	1200	265.623	259.927	5.696	R-1733	MH 500	0.40			61.2					
	MH 500	2+638.852	27.982 LT	1200	265.750	259.677	6.073	R-1733	EXIST MH	0.40			24.8					
	EXIST MH 1	2+613.400	33.500 LT	–	265.260				SOUTH							1	1	
	EXIST MH 2	2+613.800	38.465 LT	–	265.253				EX MH 1							1		
	SUBTOTAL =						32.517	7					466.8	19.9		2	5	1.971
NORTHDALE BOULEVARD																		
SAP 114-127-02																		
	STUB	1+270.000	25.850 RT			262.712			MH 508	2.00	16.2				1			
	MH 508	1+270.000	9.653 RT	1200	265.913	262.083	3.830	R-1733	MH 507	0.40		67.6						
	STUB	1+202.364	25.850 RT	–		263.156			MH 507	5.00	15.7				1			
	MH 507	1+202.364	10.197 RT	1200	265.343	261.808	3.535	R-1733	MH 506	0.40		84.4						
	STUB	1+118.000	25.850 RT	–		262.344			MH 506	2.00	15.4				1			
	MH 506	1+118.000	10.499 RT	1200	264.620	261.465	3.155	R-1733	MH 503A	0.90		91.2						
	SUBTOTAL =						10.520	3			47.3	243.2			3			
	PROJECT TOTAL =						42.837	10			47.3	243.2	466.8	19.9	3	2	5	1.971

NOTES:
(1) OFFSETS ARE TO CENTER OF STRUCTURE FOR ALL MANHOLES
(2) FIELD VERIFY EXISTING SANITARY INVERT ELEVATIONS PRIOR TO CONSTRUCTION
(3) CONSTRUCT DROP MANHOLE – SEE SANITARY SEWER DETAIL SHEET
(4) R-1733 DENOTES NEENAH R-1733 SERIES MANHOLE FRAMES WITH VENTED LIDS OR APPROVED EQUAL
(5) SEE SANITARY SEWER DETAIL SHEET FOR MANHOLE DETAIL

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	MODIFIED QUANTITIES TO REFLECT PLAN CHANGES
2	JJL	4/17/00	MOD REQ #10: REVISED MH 503 LOCATION AND STUB
3	JJL	5/9/00	MOD REQ #19: MOD. TURF ESTABLISHMENT QUANTITIES
4	JJL	5/25/00	MOD REQ #108: ADD SAN. TO ND BLVD, MH 503A
5	JJL	6/01/00	MOD REQ #27: ADDED SOD TO NORTHDALE BLVD
6	BJK	7/5/00	MOD REQ #36: ADDED SOD, CHANGE RIM ELEV
7	JJL	8/09/00	MOD. REQ. #56: MOD. RESTORATION QUANTITIES
8	JJL	9/29/00	MOD. REQ. #69: MOD. RESTORATION QUANTITIES
9	JJL	6/21/01	MOD. REQ. #100: MOD. TURF ESTABLISHMENT QUANTITIES
10	BJK	7/17/01	MOD. REQ. #74: MOD. REST. QUANTITIES, APP. RATES
11	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 24 / 539

(15.06) R:\33689\33889028\33889E\TABS\242to....dwg Aug 25, 4 5:18pm PBOX

TEMPORARY EROSION CONTROL

STATION TO STATION	LOCATION	2573.603 SILT FENCE MACHINE SLICED (m)	2573.603 SILT FENCE DITCH CHECK (m)
SAP 02-614-19, SAP 114-020-19			
MAIN STREET (CASH 14)			
2+049 TO 2+081	LT	32	
2+032 TO 2+090	RT	58	
2+149	LT - RT		38
RIVER RAPIDS DRIVE 0+900	LT - RT		31
2+461	LT - RT		48
RIVERDALE VILLAGE BLD. 0+549	LT - RT		31
2+804	LT - RT		48
2+934 TO 3+211.698	RT	276	
3+030 TO 3+091	LT	65	
SUBTOTAL		434	196
SP 0212-40, SP 114-010-11			
INTERCHANGE			
RAMP C, 7+532 TO 7+589	RT	60	
RAMP C, 7+718	RT		10
RAMP C, 7+850 TO BRIDGE	LT	207	
RAMP C, 7+870 TO 7+989	RT	134	
RAMP C, 7+960	RT		10
RAMP D, 8+000 TO 8+166	RT	150	
RAMP D, BRIDGE TO 8+333	LT	236	
RAMP D, 8+140	RT		10
RAMP D, 8+170	RT		10
RAMP D, 8+200	RT		10
RAMP D, 8+307	LT		10
RAMP D, 8+311	RT		10
RAMP D, 8+508	RT		10
RAMP D, 8+555	RT		10
RAMP D, 8+583 TO 8+662	RT	81	
RAMP D, 8+598	RT		10
RAMP D, 8+638	RT		10
RAMP A, 7+913 TO BRIDGE	RT	283	
RAMP A, 7+950	LT		10
RAMP A, 7+980	LT		10
RAMP A, 8+010 TO 8+140	LT	196	
RAMP A, 8+160	LT		10
RAMP B, BRIDGE TO 8+387	RT	216	
RAMP B, 8+257 TO 8+294	LT	128	
RAMP B, 8+255	RT		10
RAMP B, 8+310	RT		10
RAMP B, 8+390	RT		10
RAMP B, 8+400	RT		10
RAMP B, 8+5[illegible]	RT		10
RAMP B, 8+[illegible]01	RT		10
RAMP B, 8+640	RT		10
RAMP B, 8+675	RT		10
RAMP B, 8+720	RT		10
SUBTOTAL		1691	230

TEMPORARY EROSION CONTROL

STATION TO STATION	LOCATION	2573.603 SILT FENCE MACHINE SLICED (m)	2573.603 SILT FENCE DITCH CHECK (m)
SP 0212-40, SAP 114-010-11			
MAIN STREET (TH 242)			
3+540 TO 3+862	LT	325	
3+554 TO 3+761	RT	212	
3+602	RT		10
3+622	LT		10
3+755	RT		10
3+779 TO 3+982	RT	203	
3+868	LT		10
3+874 TO 3+972	LT	192	
3+875	LT		20
3+905	LT		20
3+938	LT		20
3+967	LT		20
3+970	RT		10
4+020 TO 4+248	RT	232	
4+035 TO 4+250	RT	295	
4+043	RT		10
4+075	RT		10
4+105	RT		10
4+135	RT		10
4+170	RT		10
4+207	RT		10
4+240	RT		10
SUBTOTAL		1389	200
SAP 02-618-24			
COON CREEK BOULEVARD (CSAH 18)			
1+192 TO 1+268	LT	79	
1+194 TO 1+324	RT	137	
1+273	RT		7
1+270	LT		7
1+283	LT		7
1+285 TO 1+380	LT	95	
SUBTOTAL		311	21
SAP 114-127-02			
NORTHDALE BOULEVARD			
1+072	LT - RT		36
SUBTOTAL		0	36
SAP 114-136-02			
124TH AVE NW/CROOKED LAKE BLVD.			
1+551	LT		10
1+893	LT		10
SUBTOTAL		0	20
PROJECT TOTAL		3825	703

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED QUANTITIES PER MN/DOT COMMENTS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK/JJL | DWG. NAME: 242TAB09
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
TEMPORARY EROSION CONTROL

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

(15.06) R:\33889\33889028\33889E\TABS\242tab09.dwg Aug 25, 2004 5:19pm

GAS (Y)

STATION TO STATION	LOCATION	OFFSET m	ITEM IN PLACE	REMARKS
SAP 02-614-19, SAP 114-020-19				
MAIN STREET (C.S.A.H. 14)				
2+00-2+945	LT	18	BURIED	2
2+945	RT-LT	18-15	BURIED	2, ACROSS MAIN ST.
2+945-3+335	RT	15-18	BURIED	2
3+027	RT-LT	19-24	BURIED	2
SP 0212-40, SP 114-010-11				
TH 242				
TH 242				
3+335-3+365	RT-LT	70-65	BURIED	PROTECT
RAMP C				
2+945-3+335	LT	60-80	BURIED	PROTECT-UNDER TH 10
RAMP D				
8+040-8+231	RT	6-30	BURIED	2
8+040-8+213	RT-LT	6-60	BURIED	PROTECT
8+213-8+495	RT	2-28	BURIED	2
8+495	RT	2-20	BURIED	2
SAP 114-136-02				
124th AVE. NW/CROOKED LK. BLVD.				
0+980-1+400	LT	3-7	BURIED	1
1+400-1+460	LT	3-50	BURIED	2
1+515-1+766	LT	0-15	BURIED	2
1+766	RT-LT	20-20	BURIED	2, ACROSS CSAH 18
1+766-1+900	LT	5-38	BURIED	2

TELEPHONE (Y)

STATION TO STATION	LOCATION	OFFSET m	ITEM IN PLACE	REMARKS
SAP 02-614-19, SAP 114-020-19				
MAIN STREET (C.S.A.H. 14)				
2+000-3+210	RT	24	BURIED	2
SP 0212-40, SP 114-010-11				
MAIN STREET/TH 242				
3+355-4+100	RT	29	BURIED	2
3+584	RT-LT	50-30	BURIED	2, ACROSS TH 242
4+145	RT-LT	27-25	BURIED	2, ACROSS TH 242
RAMP D				
8+069-8+185	RT	25-55	BURIED	2
SAP 114-127-02				
NORTHDALE BLVD.				
0+700-0+925	RT	18-19	BURIED	1
0+790-0+812	RT-LT	17-23	BURIED	1, ACROSS ND. BLVD.
0+812-0+832	RT	18	BURIED	1
0+925	RT-LT	19-30	BURIED	1, ACROSS ND. BLVD.
SAP 114-136-02				
124th AVE. NW/CROOKED LK. BLVD.				
1+018-1+381	LT	8-11	BURIED	RELOCATE BOXES
1+266-1+323	RT	9	BURIED	RELOCATE BOXES
1+281-1+323	RT	10	BURIED	RELOCATE BOXES
1+281-1+420	LT	7-18	BURIED	2
1+367-1+420	RT	2-48	BURIED	2
1+386-1+470	RT-LT	21-11	BURIED	2

CABLE TV. (Y)

STATION TO STATION	LOCATION	OFFSET m	ITEM IN PLACE	REMARKS
SAP 02-614-19, SAP 114-020-19				
MAIN STREET (C.S.A.H. 14)				
2+000-3+200	RT	22	OVERHEAD	2
2+045-2+335	LT	21	BURIED	2
2+334-2+336	RT-LT	22-22	BURIED	2, ACROSS MAIN ST.
3+111	RT-LT	21-30	OVERHEAD	2
SP 0212-40, SP 114-010-11				
MAIN STREET/TH 242				
3+200-3+613	RT	24	BURIED	2
3+613-4+040	RT	27	OVERHEAD	2
RAMP B				
8+260-8+600	LT	12	OVERHEAD	1
ROUND LK. BLVD.				
1+020-1+240	RT	27	BURIED	2
SAP 114-127-02				
NORTHDALE BLVD.				
0+700-0+977	RT	15-20	BURIED	1
0+825-0+977	LT	12-16	BURIED	2
0+977	RT-LT	12-20	BURIED	2, ACROSS ND. BLVD.
SAP 114-136-02				
124th AVE. NW/CROOKED LK. BLVD.				
0+985-1+325	RT	9	BURIED	1
1+325-1+530	LT	8-49	BURIED	2
1+366-1+369	RT-LT	4-10	BURIED	2
1+416-1+500	RT-LT	70-30	OVERHEAD	2
1+500-1+723	RT	30-44	OVERHEAD	1
1+530-1+900	LT	8	OVERHEAD	2
1+723-1+725	RT-LT	44-8	OVERHEAD	2
1+834-1+853	RT-LT	18-45	OVERHEAD	2

PRIVATE UTILITY OWNERS

U.S. WEST COMMUNICATIONS
9700 SCHMIDT LAKE RD. ROOM 155
PLYMOUTH, MN 55442
CONTACT: COREY CROASTON (WEST OF TH10)
TEL: 612/531-6320
CONTACT: JIM KLOSTERMAN (EAST OF TH 10)
TEL: 612/531-6385

MINNEGASCO
P.O. BOX 1165
MINNEAPOLIS, MN 55440-1165
CONTACT: RICK PILON
TEL: 612/321-5426

MEDIA ONE CABLE
6901 WINNETKA AVE. N.
BROOKLYN PARK, MN 55428
CONTACT: JIM BEVILAQUA
TEL: 651/312-5316

CONNEXUS ENERGY
14601 RAMSEY BLVD.
RAMSEY, MN 55303
CONTACT: STEVE ZIMMERMAN
TEL: 612/323-2766

GENERAL NOTES:

THE REMARKS COLUMN IS BASED UPON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT THE ACTUAL EFFECTS ON THE UTILITIES BY CONSTRUCTION. ACTUAL DETERMINATION WILL BE MADE IN THE FIELD DURING CONSTRUCTION.

ALL UTILITY WORK SHOWN SHALL BE DONE BY OTHERS UNLESS NOTED.

UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL UTILITIES IN THE FIELD.

FOR TRAFFIC MANAGEMENT SYSTEMS MODIFICATIONS, PLEASE REFER TO THE TRAFFIC MANAGEMENT SYSTEM PLANS AND TABULATIONS.

REMARKS:
1 = LEAVE AS IS
2 = RELOCATE (BY OTHERS)

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/1/99	ADDED "BY OTHERS" TO REMARKS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EUTAB
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/TH 242
TABULATED QUANTITIES
EXISTING UTILITIES

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 26 / 539

PLOT DATE: Aug 24, 2004 5:13pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242eutab.dwg

POWER [Y]

STATION TO STATION	LOCATION	OFFSET m	ITEM IN PLACE	REMARKS
SAP 02-614-19, SAP 114-020-19				
MAIN STREET (C.S.A.H. 14)				
2+000-3+200	RT	22	OVERHEAD	2
2+032-2+060	RT	21-30	BURIED	2
2+056	RT-LT	22-26	BURIED	2, ACROSS MAIN ST.
2+061	RT-LT	22-25	OVERHEAD	2, ACROSS MAIN ST.
2+278	RT-LT	21-20	OVERHEAD	2, ACROSS MAIN ST.
2+378-2+380	RT-LT	21-22	OVERHEAD	2, ACROSS MAIN ST.
2+836-2+877	RT	22	BURIED	2
2+924-2+967	RT	15	BURIED	2
2+969	RT-LT	22-22	BURIED	2, ACROSS MAIN ST.
2+967	RT-LT	16-25	BURIED	2, ACROSS MAIN ST.
3+020	RT	22	BURIED	2
3+021-3+023	LT	16-26	BURIED	2
3+023-3+111	LT	16	BURIED	2
3+111	RT-LT	21-16	OVERHEAD	2
3+200-3+212	RT	21-28	OVERHEAD	2
SP 0212-40, SP 114-010-11				
MAIN STREET/TH 242				
3+212-3+254	RT	21-28	OVERHEAD	2
3+220-3+234	RT	28	BURIED	2
3+535	RT-LT	40-20	BURIED	2
3+545-3+610	RT	49	BURIED	2
3+613	RT	22-49	OVERHEAD	2
3+613-4+040	RT	20-27	OVERHEAD	2
4+038-4+040	RT-LT	27-21	OVERHEAD	2
3+212-3+254	RT	21-28	OVERHEAD	2
3+220-3+234	RT	28	BURIED	2
3+535	RT-LT	40-20	BURIED	2
3+545-3+610	RT	49	BURIED	2
3+613	RT	22-49	OVERHEAD	2
3+613-4+040	RT	20-27	OVERHEAD	2
4+038-4+040	RT-LT	27-21	OVERHEAD	2
RAMP A				
7+880-8+180	RT-LT	5-21	BURIED	2
7+983	RT-LT	8-3	BURIED	2
RAMP B				
8+230-8+487	RT-LT	14-10	BURIED	2
8+280-8+685	LT	10-85	OVERHEAD	1
8+372-8+377	RT-LT	2-24	BURIED	2
RAMP C				
7+760-7+873	LT	1-4	BURIED	2
7+873-7+876	LT	1-19	BURIED	2
RAMP D				
8+060-8+320	RT	3-45	BURIED	2
8+213-8+247	RT	4-19	OVERHEAD	2
8+213-8+320	RT	4-19	BURIED	2
8+320-8+323	RT-LT	29-4	BURIED	2
8+323-8+465	LT	4-12	BURIED	2
8+592-8+650	RT-LT	11-60	OVERHEAD	1

POWER [Y]

STATION TO STATION	LOCATION	OFFSET m	ITEM IN PLACE	REMARKS
SAP 02-614-19, SAP 114-020-19				
ROUND LAKE BLVD.				
1+036-1+240	RT	22	BURIED	2
SAP 114-127-02				
NORTHDALE BLVD.				
0+700-0+840	LT	11-18	BURIED	1
0+840-0+977	LT	15-18	BURIED	1
SAP 114-136-02				
124th AVE. NW/CROOKED LK. BLVD.				
0+980-1+166	RT	9	BURIED	1
1+266-1+360	LT	8-JAN	BURIED	1
1+360-1+435	LT	8-32	BURIED	2
1+416-1+500	RT-LT	70-30	OVERHEAD	2
1+435-1+470	RT-LT	15-32	OVERHEAD	2, ACROSS 124th AVE.
1+500-1+723	RT	30-44	OVERHEAD	1
1+530-1+900	LT	8	OVERHEAD	2
1+590-1+900	LT	9-19	OVERHEAD	2
1+723-1+725	RT-LT	44-8	OVERHEAD	2
1+725	LT	8-25	OVERHEAD	2
1+834-1+853	RT-LT	18-45	OVERHEAD	2
SAP 02-618-24				
COON CREEK BLVD.				
1+020-1+268	RT	14-32	OVERHEAD	1

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: PBD
CHKED. BY: KPK | DWG. NAME: 242EUTAB
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Fields
DATE: 11/5/99 MINN. REG. NO. 23211

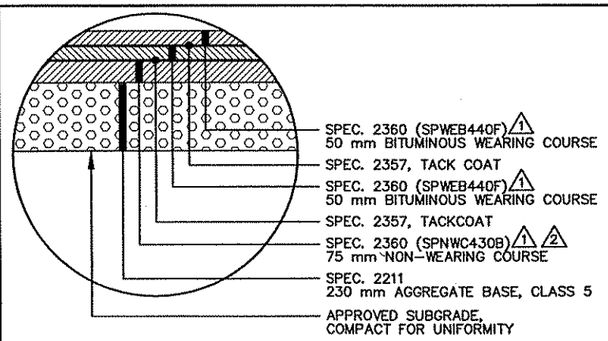
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/TH 242
TABULATED QUANTITIES
EXISTING UTILITIES

CITY PROJECT 98-20

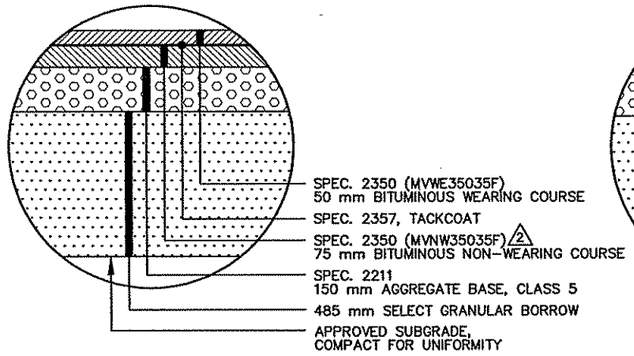
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 27 / 539

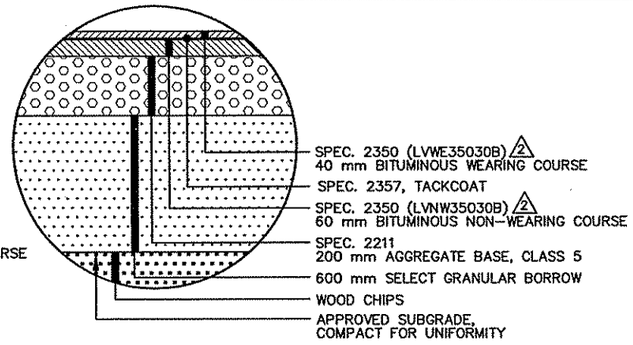
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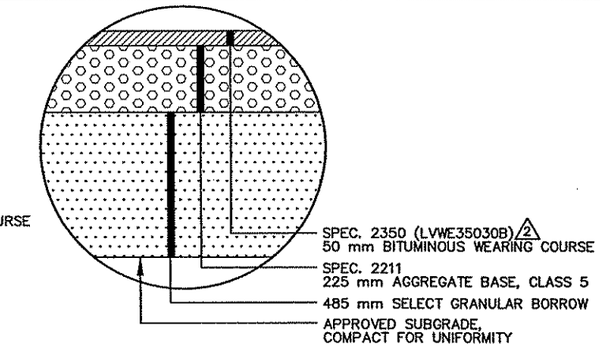
BITUMINOUS PAVEMENT for
MAIN STREET (CSAH 14/TH 242),
RAMP B, RAMP D and LEG D1
INSET 1



BITUMINOUS PAVEMENT for
RAMP A and RAMP C
INSET 2

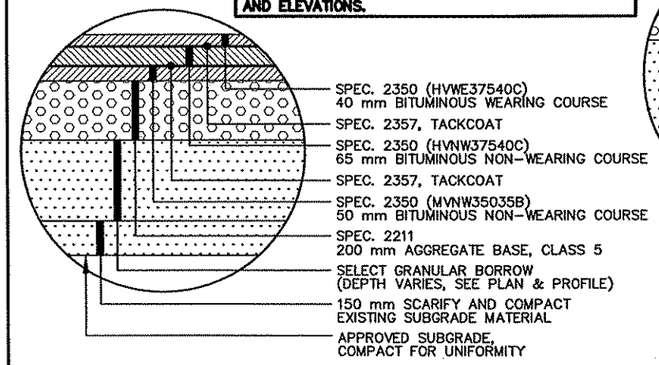


TEMPORARY BITUMINOUS PAVEMENT
for MAIN STREET/TH 242 from
COON CREEK BOULEVARD to COON CREEK
INSET 3

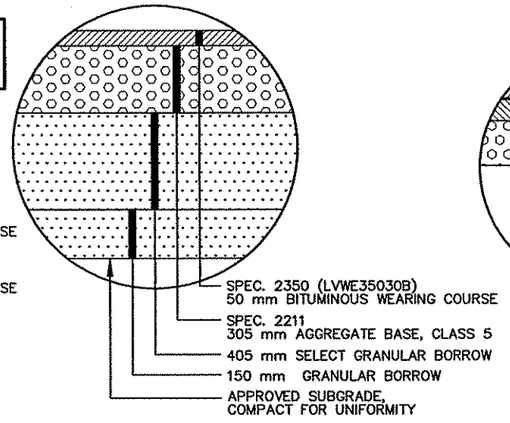


BITUMINOUS SHOULDERS for
RAMP A and RAMP C
INSET 4

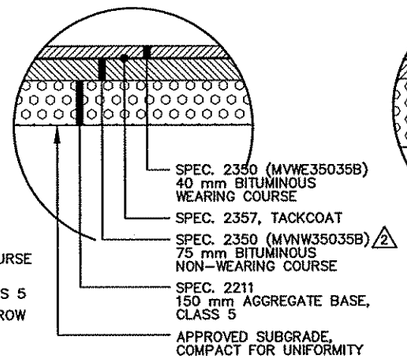
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



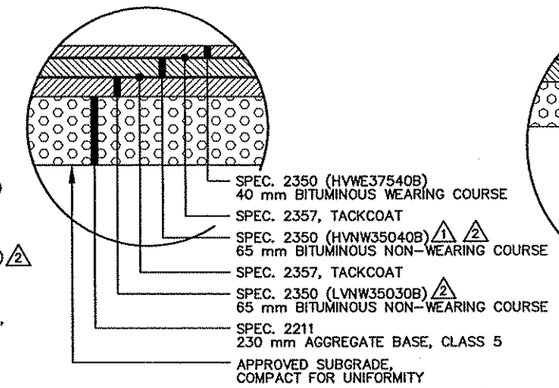
BITUMINOUS PAVEMENT for
COON CREEK BOULEVARD
INSET 5



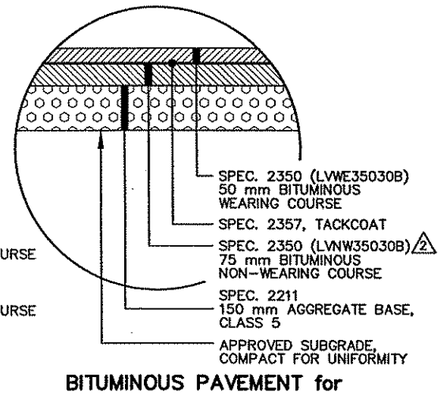
BITUMINOUS SHOULDERS for
COON CREEK BOULEVARD
INSET 6



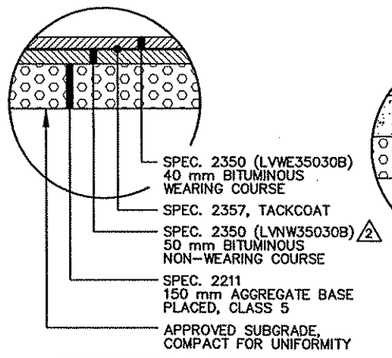
BITUMINOUS PAVEMENT for
NORTHDALE BOULEVARD
(North of Main Street)
INSET 7



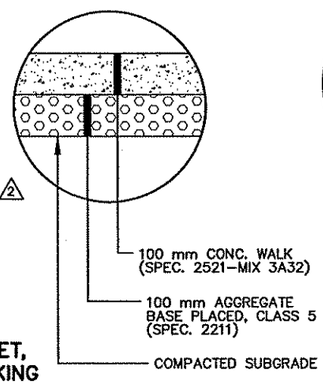
BITUMINOUS PAVEMENT for
NORTHDALE BOULEVARD
(South of Main Street)
INSET 8



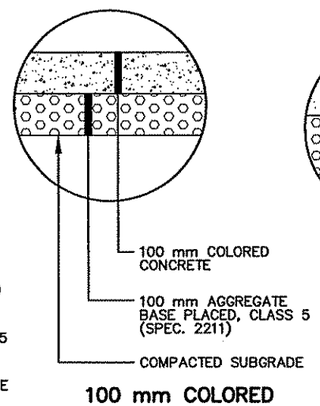
BITUMINOUS PAVEMENT for
RIVER RAPIDS DRIVE,
RIVERDALE VILLAGE BOULEVARD,
124th AVE. NW/CROOKED LAKE BOULEVARD
and MENARD's PARKING LOT
INSET 9



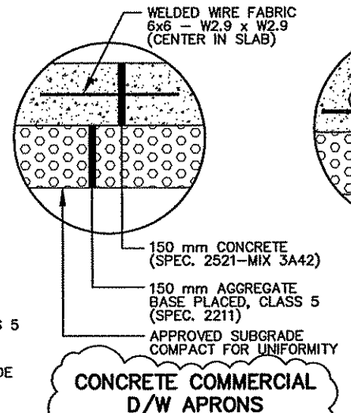
BITUMINOUS PAVEMENT for
GLADIOLA STREET, HEATHER STREET,
123rd AVENUE NW, MENARD'S PARKING
LOT & WELLS FARGO PARKING LOT
INSET 10



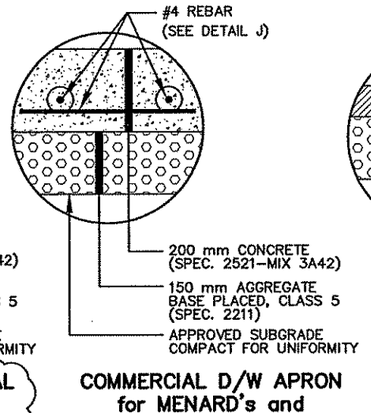
100 mm CONCRETE WALK
INSET 11



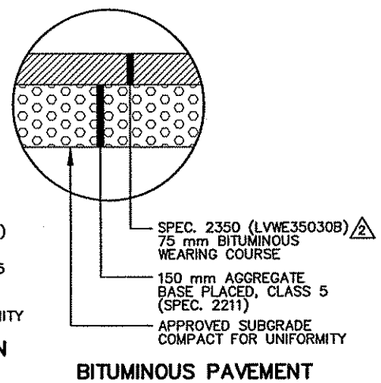
100 mm COLORED
CONCRETE WALK
INSET 12



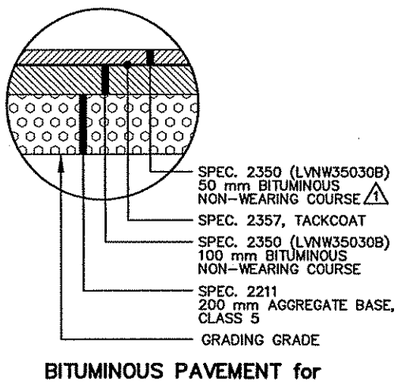
CONCRETE COMMERCIAL
D/W APRONS
and RESIDENTIAL D/W's
INSET 13



COMMERCIAL D/W APRON
for MENARD's and
RIVERDALE VILLAGE ENTRANCE
INSET 14



BITUMINOUS PAVEMENT
for RESIDENTIAL D/W's
INSET 15



BITUMINOUS PAVEMENT for
TEMPORARY BYPASS CONSTRUCTION
INSET 16

1 OF 16

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED INSET 8 NON-WEAR FROM MV TO HV
			CHANGED INSET 3 NON-WEAR FROM 100 mm TO 60 mm
			ADDED TEMP. PAVEMENT SECTION (INSET 16)
2	JJL	2/11/00	ADDEND/1: MODIFIED MIX DESIGNS FOR INSETS 1, 8 & 16
3	JJL	2/16/00	ADDEND/2: MOD. MIX DESIGNS INSETS 1,2,3,4,7,8,9,10,15
4	JJL	6/28/00	MOD.REQ.#31: MOD. INSET 1 -- REMOVE SELECT GRANULAR
5	JJL	7/05/00	MOD.REQ. #36: ADDED MENARDS LOT TO INSETS 9 & 10
6	JJL	9/07/00	MOD. REQ. #59: ADDED BANK LOT TO INSET 10
7	JJL	9/12/00	MOD. REQ. #64: ADDED COMMERCIAL APRONS TO INSET 13
8	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

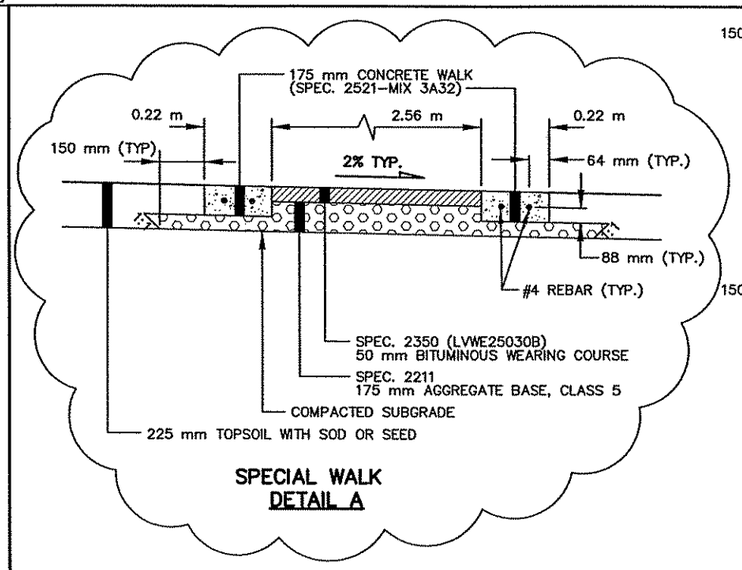
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TYPICAL SECTIONS
PAVEMENT INSETS

CITY PROJECT 98-20

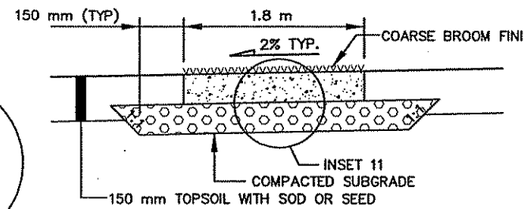
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 28 / 539

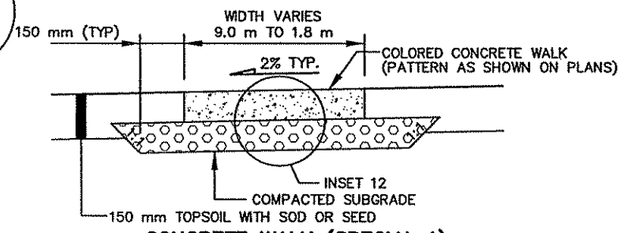
PLOT DATE: Aug 23, 2004 9:01am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242ets01.dwg



SPECIAL WALK
DETAIL A



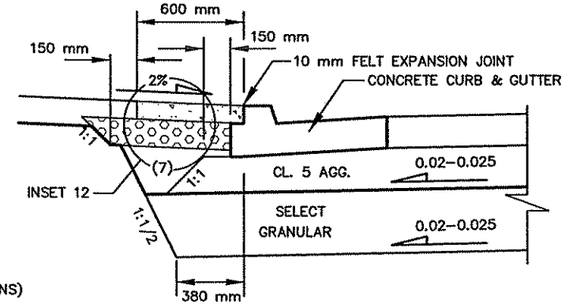
CONCRETE WALK



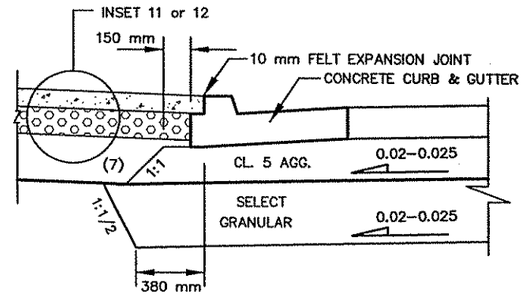
CONCRETE WALK (SPECIAL 1)

CONTRACTION JOINT EVERY 1.8 m OR AS SHOWN ON PLANS

CONCRETE WALK
DETAIL B



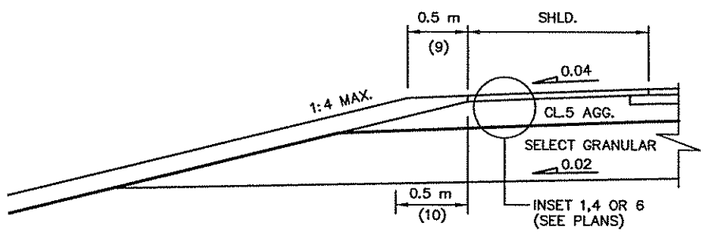
CONCRETE WALK (SPECIAL 2)
(MAINTENANCE STRIP)
DETAIL C



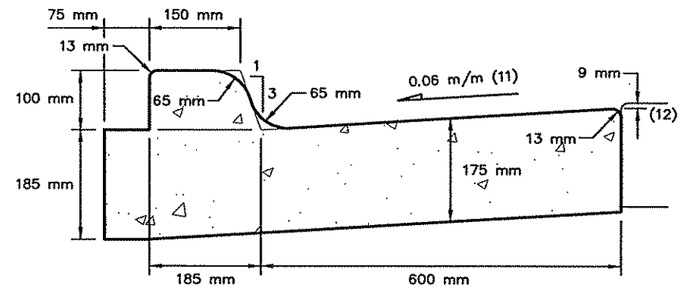
CONCRETE MEDIAN
DETAIL D

GENERAL NOTES:

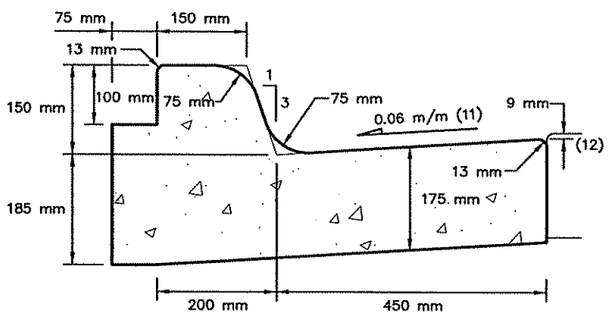
1. DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
2. ALL CROSS SLOPES ARE IN METER PER METER.
3. UNLESS OTHERWISE SPECIFIED, THE GRADING GRADE CROSS SLOPES WILL BE THE SAME AS THE FINISHED GRADE.
4. USE 150 mm STEPPING ON BITUMINOUS LIFTS.
5. FOR CLARITY, THE BOTTOM OF THE WEARING COURSE AND BINDER COURSE ARE NOT SHOWN ON THE TYPICAL SECTIONS.
6. FOR A MEDIAN WIDTH OF 2.70 m OR GREATER, THE MEDIAN SHALL BE CONSTRUCTED PER MnDOT STANDARD PLATES.
7. BACKFILL WITH APPROVED GRADING MATERIAL .
8. REFER TO THE PLANNED CONSTRUCTION AND LANDSCAPE PLAN SHEETS FOR CONCRETE AND PLANTING AREAS.
9. PLACE A MINIMUM OF 2 ROLLS (1.2 m) OF SOD BEHIND ALL CURBS AND SHOULDERS UNLESS OTHERWISE NOTED IN THE PLANS.
10. 0.6 m ON RAMPS.
11. OUTFALL GUTTER SLOPE TO MATCH PAVEMENT SLOPE WHERE NECESSARY.
12. DEPRESS ASPHALT 9 mm FROM GUTTER LIP WITH OUTFALL GUTTER.



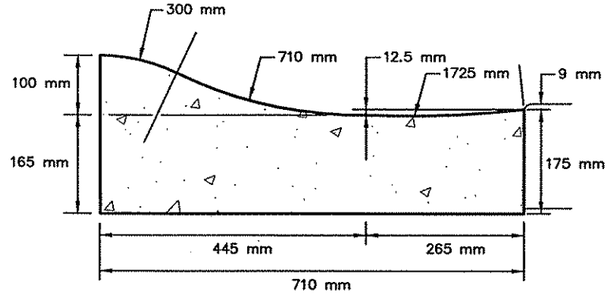
TYPICAL SHOULDER DETAIL
(Rural Section)
DETAIL E



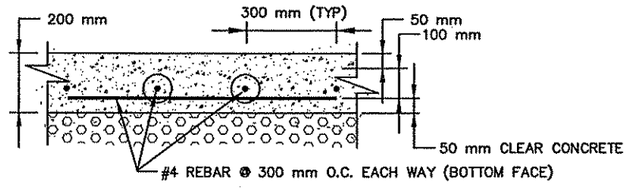
B424 MODIFIED CURB & GUTTER
DETAIL F



B618 MODIFIED CURB & GUTTER
DETAIL G



SURMOUNTABLE CURB & GUTTER (SPECIAL)
DESIGN SPECIAL
DETAIL H



COMMERCIAL DRIVEWAY APRON REINFORCEMENT
MENARD's ENTRANCE
RIVERDALE VILLAGE ENTRANCE
DETAIL J

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/10/00	MOD. REQ. #47 REVISED SPECIAL WALK
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TYPICAL SECTIONS
DETAILS AND GENERAL NOTES

CITY PROJECT 98-20

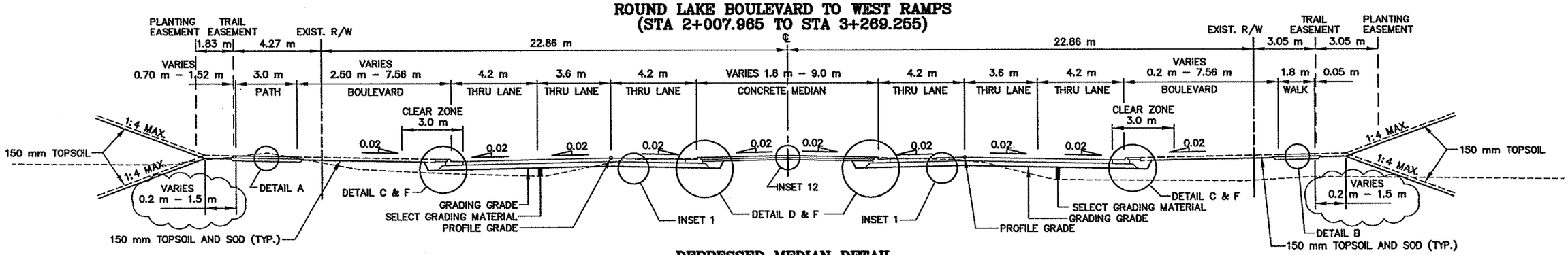
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 29 / 539

PLOT DATE: Aug 23, ...4 8:58am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242et....dwg

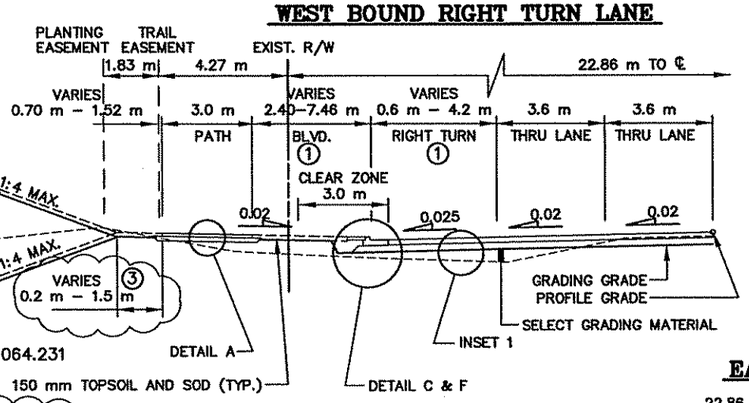
APBOX

PROPOSED TYPICAL SECTION MAIN STREET
ROUND LAKE BOULEVARD TO WEST RAMPS
(STA 2+007.965 TO STA 3+269.255)



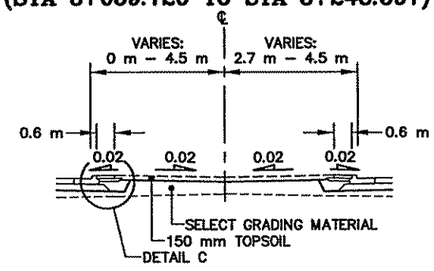
STATIONS
2+303.354 – 2+448.263
2+614.359 – 2+773.438
2+894.301 – 3+043.292
3+102.514 – 3+201.860

WEST BOUND RIGHT TURN LANE

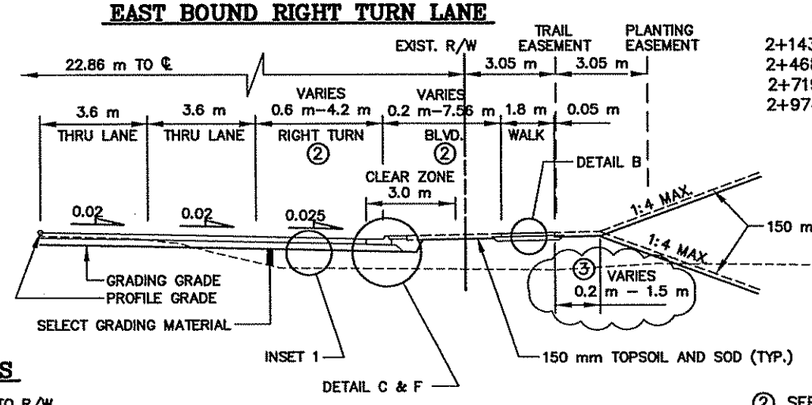


① SEE PLANS FOR
STA 2+007.965 TO STA 2+064.231

DEPRESSED MEDIAN DETAIL
MAIN STREET (C.S.A.H. 14)
(STA 3+059.720 TO STA 3+248.597)



EAST BOUND RIGHT TURN LANE

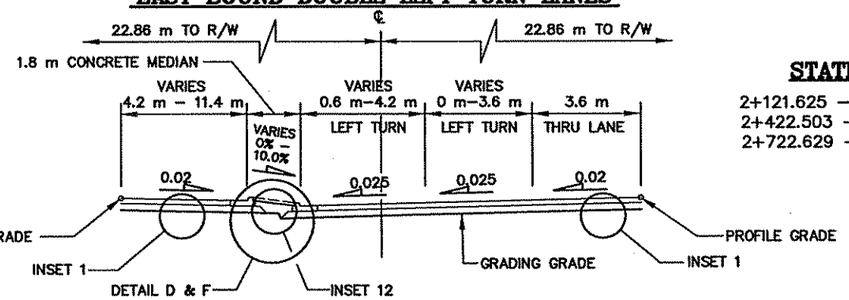


STATIONS
2+143.402 – 2+303.354
2+468.539 – 2+614.359
2+719.047 – 2+894.301
2+974.067 – 3+216.017

② SEE PLANS FOR
STA 2+894.301 TO STA 2+974.067
AND
STA 3+216.017 TO STA 3+269.255

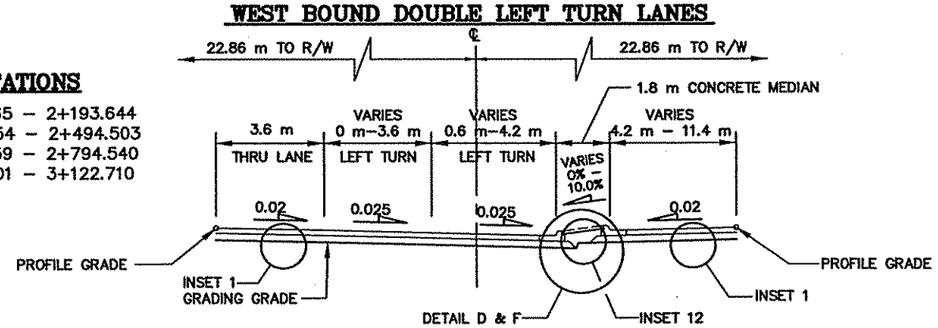
③ 0.2 m IN ALL CUT SECTIONS,
0.2 – 1.5 m IN FILL SECTIONS
AS NOTED ON CROSS SECTIONS

EAST BOUND DOUBLE LEFT TURN LANES



STATIONS
2+121.625 – 2+303.354
2+422.503 – 2+614.359
2+722.629 – 2+894.301

WEST BOUND DOUBLE LEFT TURN LANES



STATIONS
2+007.965 – 2+193.644
2+303.354 – 2+494.503
2+614.359 – 2+794.540
2+894.301 – 3+122.710

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTE:
NOT ALL EASEMENTS ARE SHOWN ON PLAN VIEW FOR CLARITY. ALL EASEMENTS ARE SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED DIMENSIONS WB RIGHT TURN LANE
			ADDED DEPRESSED MEDIAN DETAIL
2	JJL	6/30/00	MOD.REQ.#31: 2+007.965–3+269.255, OMITTED SUBCUT &
			SELECT GRANULAR, BACKFILL IS SELECT GRADING MATL.
3	PMJ	7/5/00	MOD. REQ. #36: REVISED SIDE SLOPE DIMENSIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242-TYP1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
TYPICAL SECTIONS
ROUND LAKE BOULEVARD TO WEST RAMPS

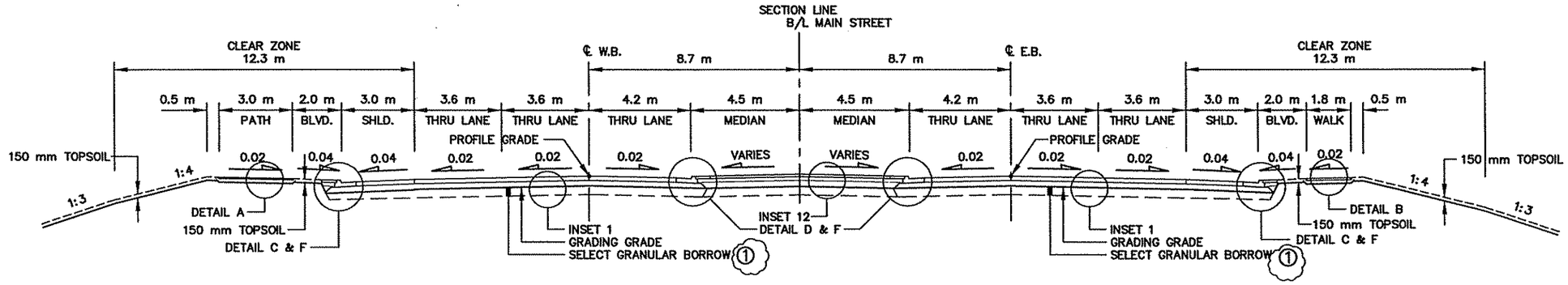
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

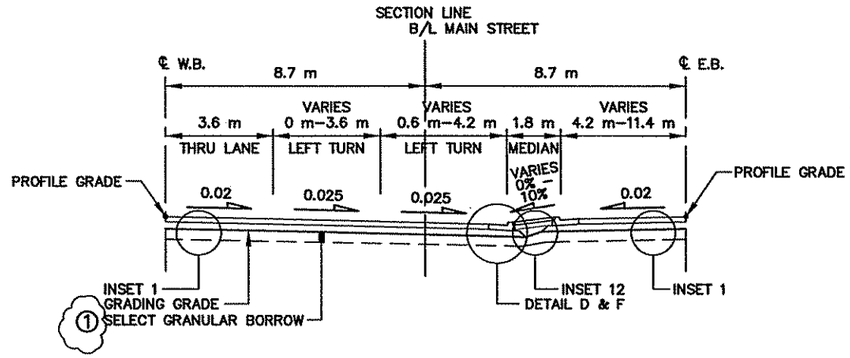
SHEET NO. 30 / 539

PLOT DATE: Aug 23, 2004 9:02am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\242-typ1.dwg

PROPOSED TYPICAL SECTION MAIN STREET
WEST RAMPS TO EAST RAMPS
(STA. 3+269.255 TO STA. 3+525.303)



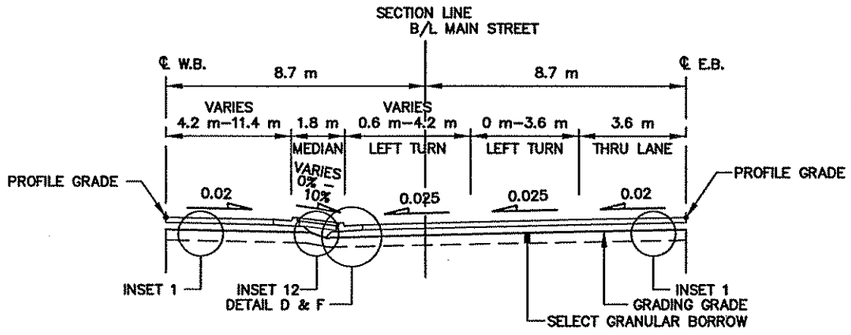
WEST BOUND DOUBLE LEFT TURN LANES



STATIONS

3+269.255 – 3+436.767

EAST BOUND DOUBLE LEFT TURN LANES



STATIONS

3+400.935 – 3+525.303

MAIN STREET/TH 242 : CLEAR ZONE DISTANCES
STA. 3+269.255 TO STA. 3+525.303 , TANGENT, 90 km/hr, 12.30 m

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NOTES:

NOT ALL EASEMENTS ARE SHOWN ON PLAN VIEW FOR CLARITY. ALL EASEMENTS ARE SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.

① SELECT GRANULAR SHALL ONLY BE INSTALLED EAST OF BRIDGE NO. 02559

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	6/28/00	MOD.REQ.#31: ADDED NOTE 1
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Fields
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
TYPICAL SECTIONS
WEST RAMPS TO EAST RAMPS

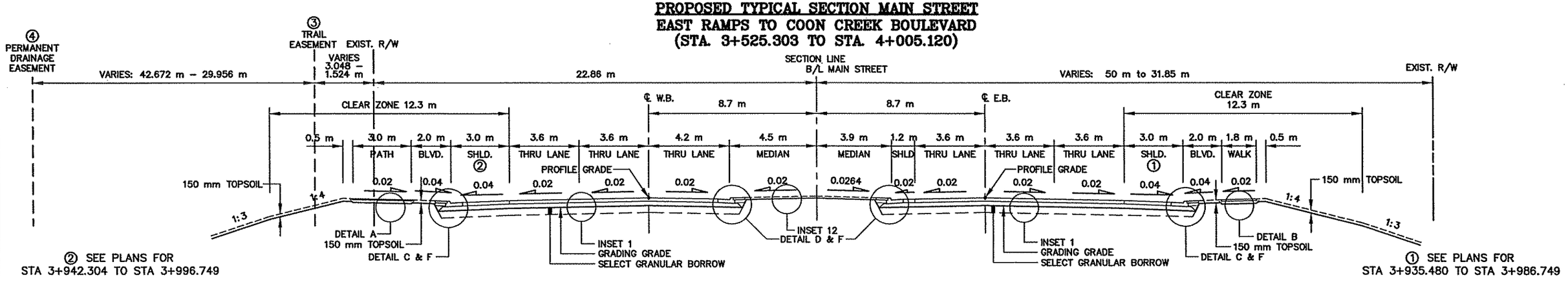
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 31 / 539

PLOT DATE: Aug 23, ...04 8:58am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242ets....dwg

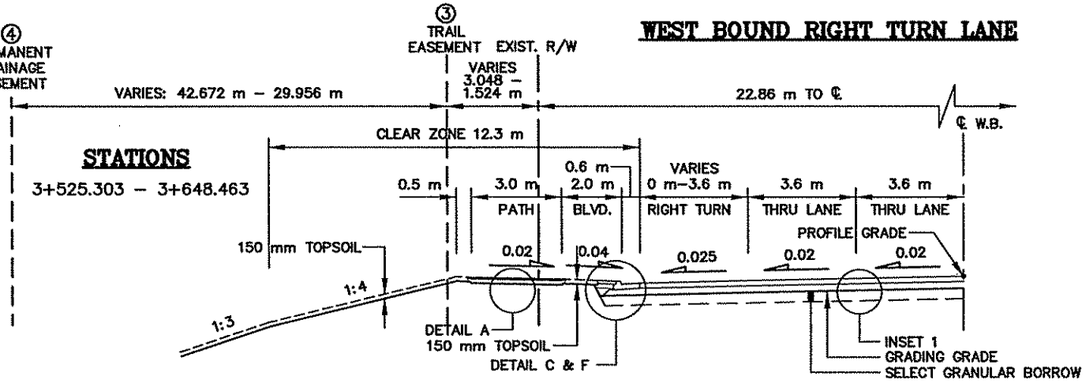
PROPOSED TYPICAL SECTION MAIN STREET
EAST RAMPS TO COON CREEK BOULEVARD
(STA. 3+525.303 TO STA. 4+005.120)



② SEE PLANS FOR
STA 3+942.304 TO STA 3+996.749

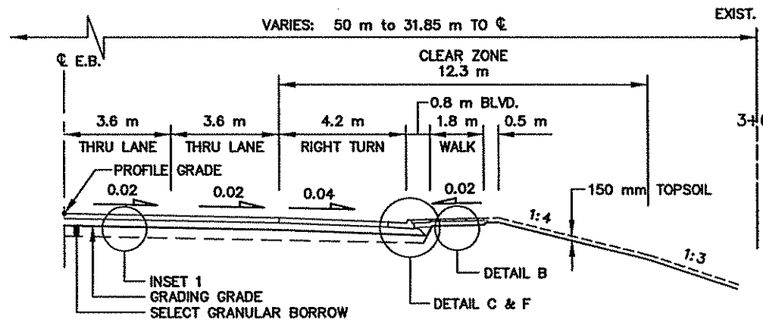
① SEE PLANS FOR
STA 3+935.480 TO STA 3+986.749

WEST BOUND RIGHT TURN LANE



STATIONS
3+525.303 – 3+648.463

EAST BOUND RIGHT TURN LANE

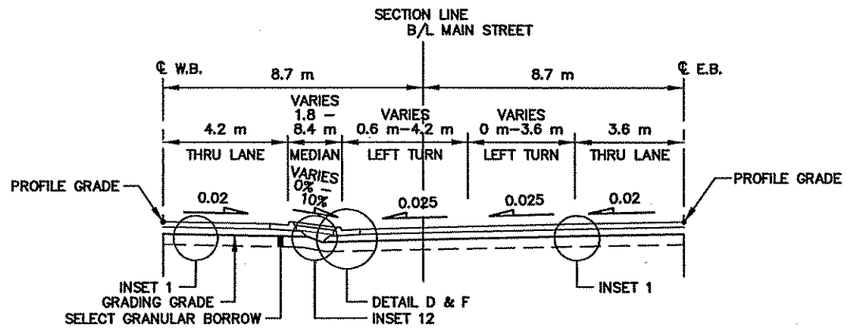


STATIONS
3+665.248 – 3+770.189

③ 3.048 m TRAIL EASEMENT
STA. 3+600.851 TO STA. 3+764.101
1.524 m TRAIL EASEMENT
STA. 3+809.685 TO STA. 3+987.515

④ 42.672 m PERMANENT DRAINAGE EASEMENT
STA. 3+548.127 TO STA. 3+719.654
29.956 m PERMANENT DRAINAGE EASEMENT
STA. 3+778.483 TO STA. 3+988.352

EAST BOUND DOUBLE LEFT TURN LANES



STATIONS
3+739.841 – 4+003.613

NOTE:

NOT ALL EASEMENTS ARE SHOWN ON PLAN VIEW FOR CLARITY. ALL EASEMENTS ARE SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.

MAIN STREET/TH 242 : CLEAR ZONE DISTANCES
TH 10/47 EAST RAMPS TO COON CREEK BOULEVARD, TANGENT, 90 km/hr, 12.30 m

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED CLEAR ZONE LEFT TO 12.3 m
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1375 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
TYPICAL SECTIONS
EAST RAMPS TO COON CREEK BOULEVARD

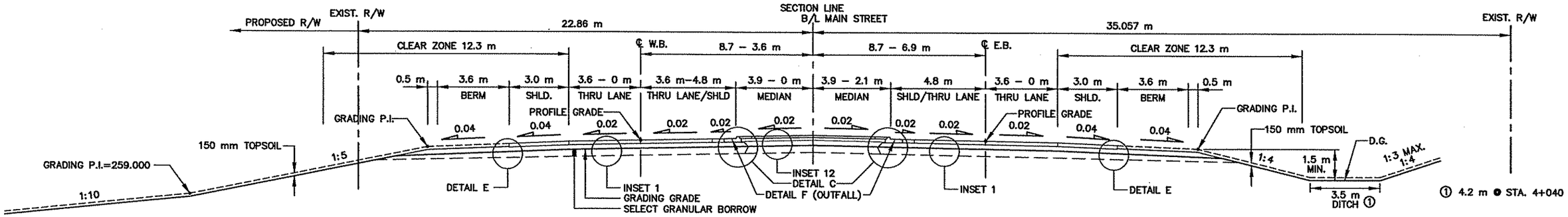
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

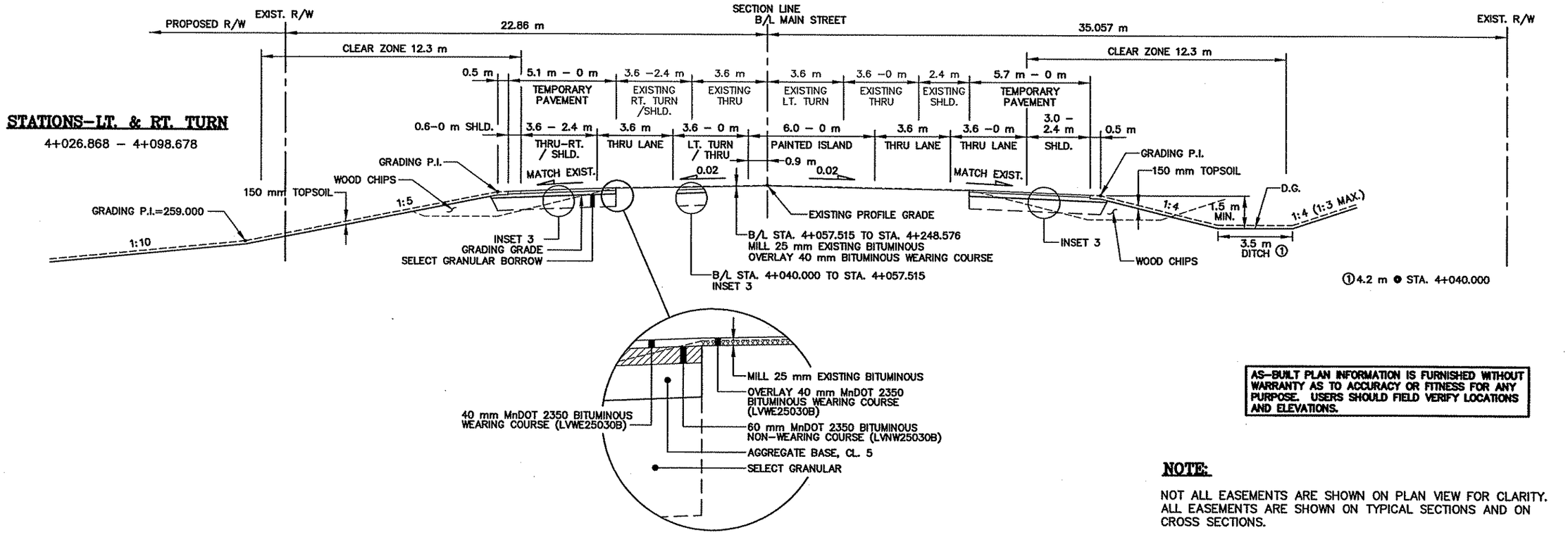
SHEET NO. 32 / 539

PLOT DATE: Aug 23, 2004 8:57am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242ets...dwg

PROPOSED TYPICAL SECTION MAIN STREET
COON CREEK BOULEVARD TO END MEDIAN
(STA. 4+005.120 TO STA. 4+040.000)



PROPOSED TYPICAL SECTION MAIN STREET
END MEDIAN TO COON CREEK BRIDGE
(STA. 4+040.000 TO STA. 4+248.576)



STATIONS–LT. & RT. TURN

4+026.868 – 4+098.678

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTE:

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED TYPICALS, ADDED DETAIL FOR MILLED PAVEMENT
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS05
DATE: NOVEMBER 5, 1999

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BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
TYPICAL SECTIONS
COON CREEK BOULEVARD TO END CONSTRUCTION

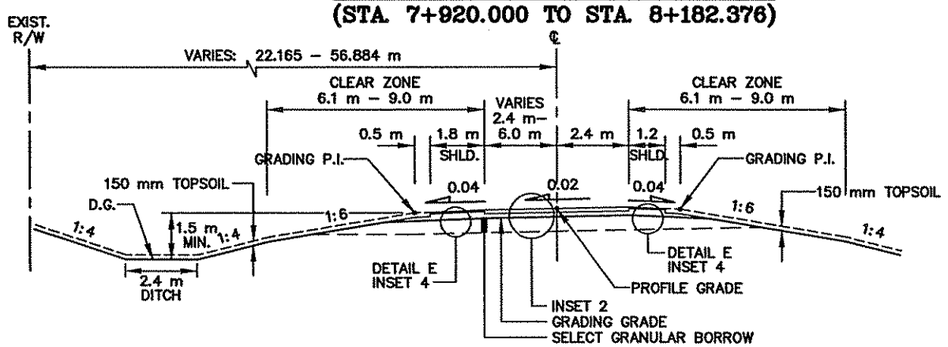
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 33 / 539

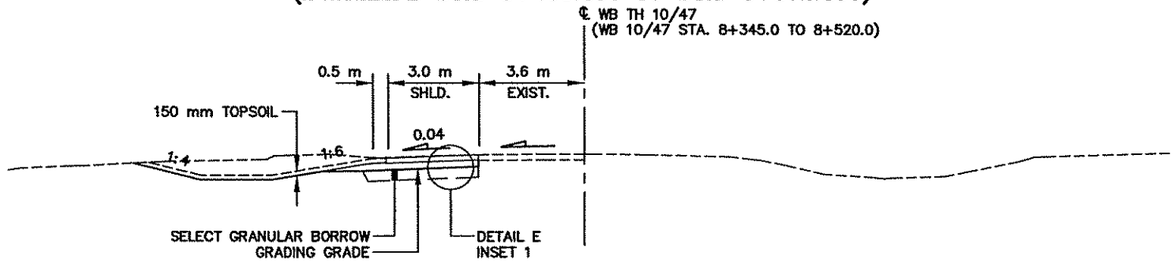
PLOT DATE: Aug 23, ...04 8:56am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242et...dwg

PROPOSED TYPICAL SECTION RAMP A
(STA. 7+920.000 TO STA. 8+182.376)

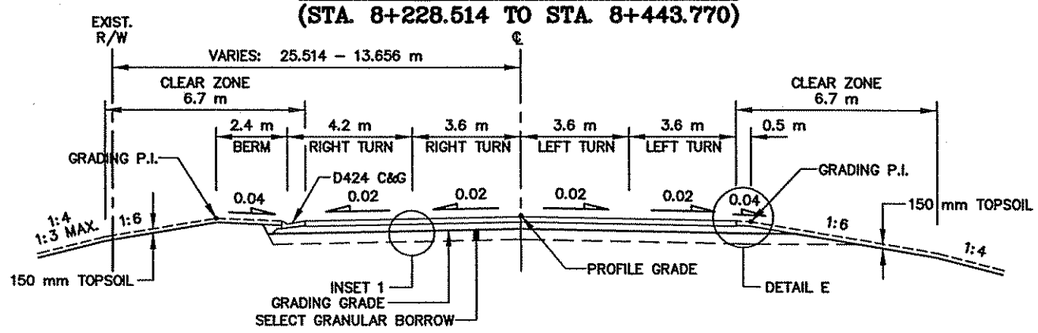


242RAMPA : CLEAR ZONE DISTANCES
STA. 7+833.769 TO STA. 7+935.765, R=291.063 m, 80 km/hr, FILL: 9.0 m
STA. 7+935.765 TO STA. 8+098.747, TANGENT, 80 km/hr, FILL: 6.6 m
STA. 8+098.747 TO STA. 8+155.837, R=100.000 m, 50 km/hr, (USE 6.1 m)
STA. 8+155.837 TO STA. 8+182.376, TANGENT, 50 km/hr, (USE 6.1 m)

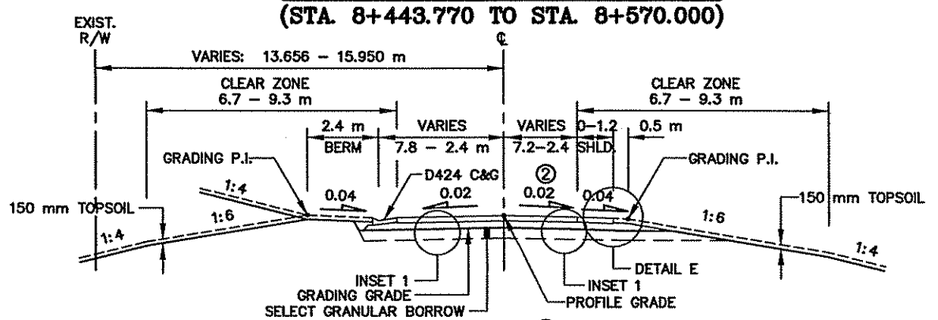
PROPOSED TYPICAL SECTION WB TH 10/47 SHOULDER
(242RAMPB STA. 8+400.353 TO STA. 8+572.396)



PROPOSED TYPICAL SECTION RAMP B
(STA. 8+228.514 TO STA. 8+443.770)

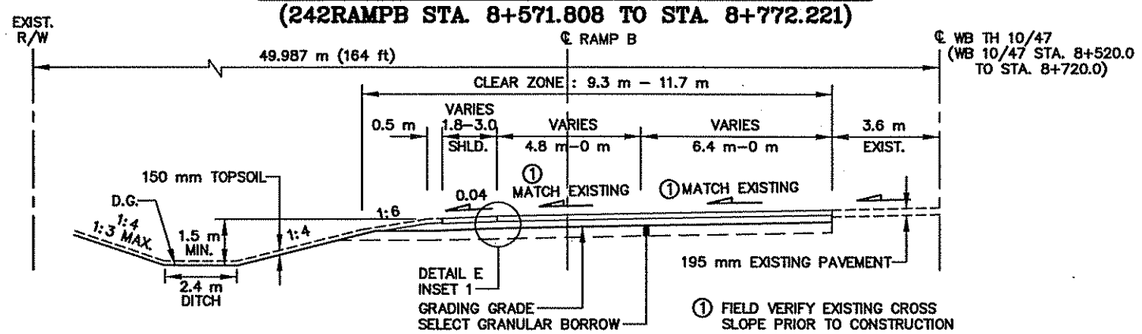


PROPOSED TYPICAL SECTION RAMP B
(STA. 8+443.770 TO STA. 8+570.000)



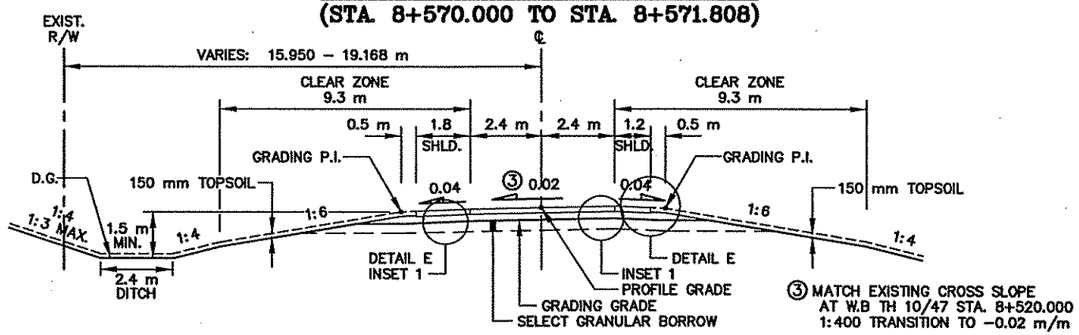
② CROSS SLOPE TRANSITION
1:400 TRANSITION FROM +0.02 m/m TO –0.02 m/m
STA. 8+458.170 TO STA. 8+515.770

PROPOSED TYPICAL SECTION RAMP B ACCESS AREA
(242RAMPB STA. 8+571.808 TO STA. 8+772.221)



① FIELD VERIFY EXISTING CROSS SLOPE PRIOR TO CONSTRUCTION

PROPOSED TYPICAL SECTION RAMP B
(STA. 8+570.000 TO STA. 8+571.808)



③ MATCH EXISTING CROSS SLOPE AT W.B TH 10/47 STA. 8+520.000
1:400 TRANSITION TO –0.02 m/m

RAMP B ACCESS AND 242RAMPB : CLEAR ZONE DISTANCES
STA. 8+228.514 TO STA. 8+239.938, TANGENT, 50 km/hr, (USE 4.5 m)
STA. 8+239.938 TO STA. 8+449.043, R=425.000 m, 70 km/hr, 6.7 m
STA. 8+449.043 TO STA. 8+510.000, TANGENT, 70 km/hr, FILL : 5.7 m, CUT: 5.1 m
STA. 8+510.000 TO STA. 8+571.808, TANGENT, 90 km/hr, FILL : 9.3 m, CUT: 7.5 m
STA. 8+520.000 TO STA. 8+720.000 (W.B. TH10/47), TANGENT, 110 km/hr, FILL: 11.7 m, CUT : 9.3 m

NOTE:

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS08
DATE: NOVEMBER 5, 1999

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BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242RAMPA, RAMP B ACCESS, 242RAMPB
TYPICAL SECTIONS
RAMP A, RAMP B ACCESS, RAMP B

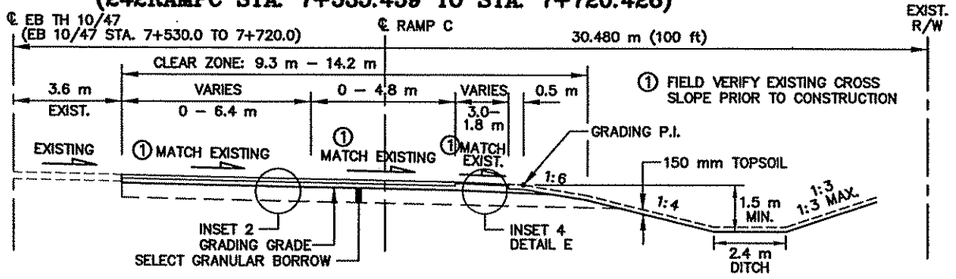
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

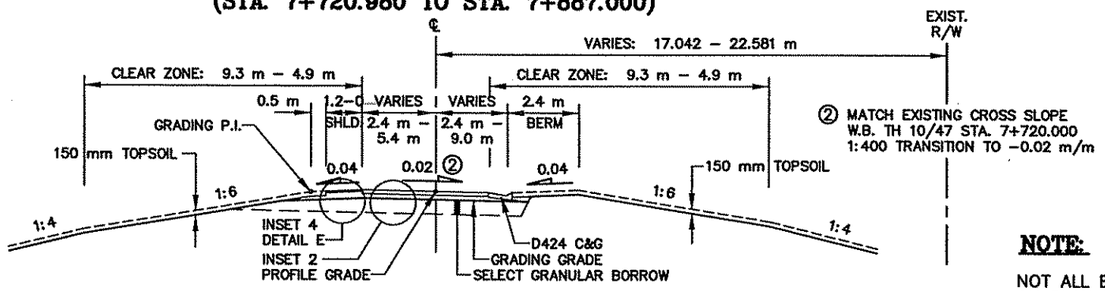
SHEET NO. 34 / 539

PLOT DATE: Aug 23, ...4 8:55am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242ets...dwg
APBOX

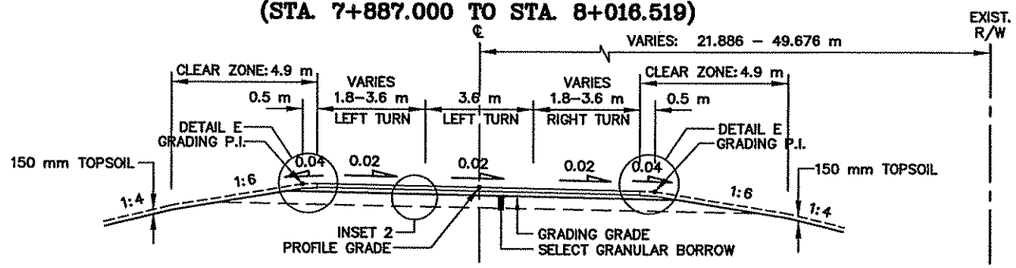
PROPOSED TYPICAL SECTION RAMP C ACCESS AREA
(242RAMPC STA. 7+535.459 TO STA. 7+720.426)



PROPOSED TYPICAL SECTION RAMP C
(STA. 7+720.980 TO STA. 7+887.000)

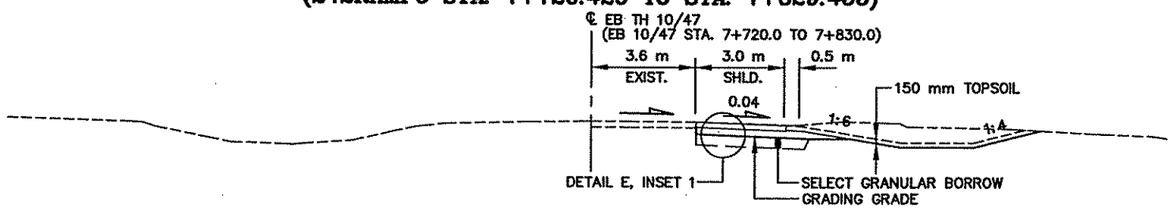


PROPOSED TYPICAL SECTION RAMP C
(STA. 7+887.000 TO STA. 8+016.519)

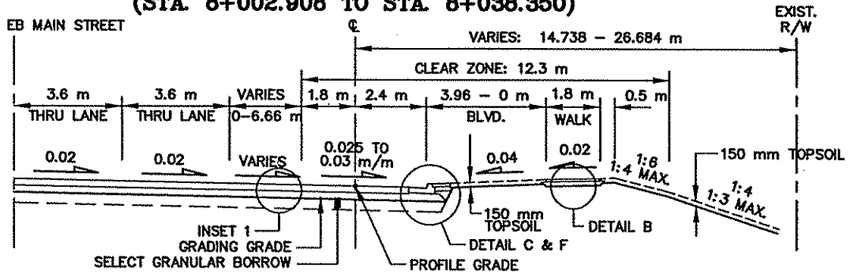


RAMP C ACCESS AND 242RAMPC : CLEAR ZONE DISTANCES
STA. 7+530.000 TO STA. 7+710.879 (EB 10/47), R=1164.253, 110 km/hr, FILL : 14.2 m, CUT : 11.0 m
STA. 7+710.879 TO STA. 7+720.000 (EB 10/47), TANGENT, 110 km/hr, FILL: 14.2 m, CUT : 9.3 m
STA. 7+720.980 TO STA. 7+943.919, TANGENT, 90 km/hr, FILL: 9.30 m, CUT: 7.5 m
STA. 7+943.919 TO STA. 7+796.943, TANGENT, 60 km/hr, (USE 4.5 m)
STA. 7+796.943 TO STA. 8+004.969, R=582.000 m, 60 km/hr, FILL: 4.9 m
STA. 8+004.969 TO STA. 8+016.519, TANGENT, 60 km/hr, (USE 4.5 m)

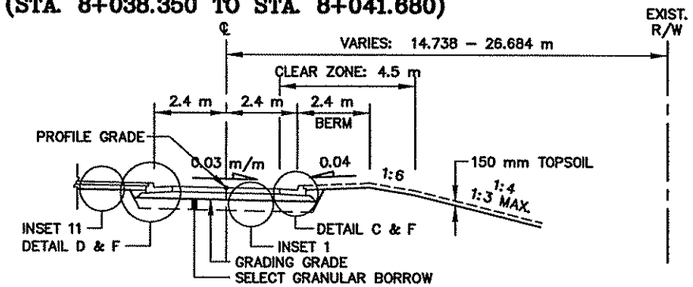
PROPOSED TYPICAL SECTION EB TH 10/47 SHOULDER
(242RAMPC STA. 7+720.426 TO STA. 7+829.455)



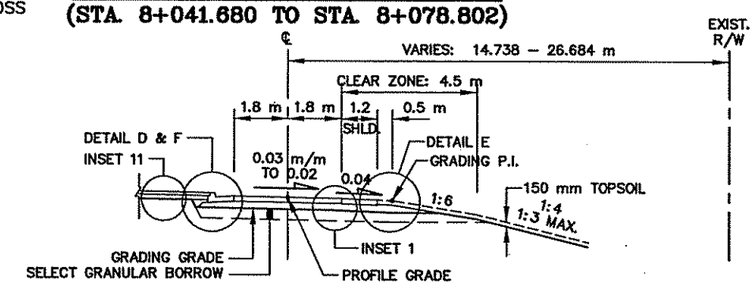
PROPOSED TYPICAL SECTION LEG D1
(STA. 8+002.908 TO STA. 8+038.350)



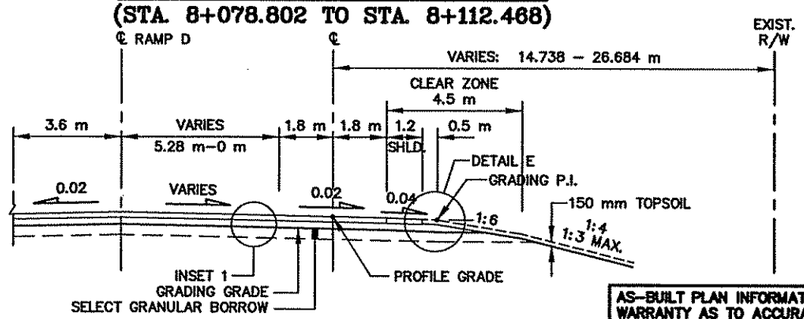
PROPOSED TYPICAL SECTION LEG D1
(STA. 8+038.350 TO STA. 8+041.680)



PROPOSED TYPICAL SECTION LEG D1
(STA. 8+041.680 TO STA. 8+078.802)



PROPOSED TYPICAL SECTION LEG D1
(STA. 8+078.802 TO STA. 8+112.468)



242 LEG D1 : CLEAR ZONE DISTANCES
STA. 8+002.908 TO STA. 8+112.468, 50 km/hr, (USE 4.5 m)

NOTE:

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS09
DATE: NOVEMBER 5, 1999

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BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242RAMPC, 242LEGD1
TYPICAL SECTIONS
RAMP C ACCESS, RAMP C
LEG D1

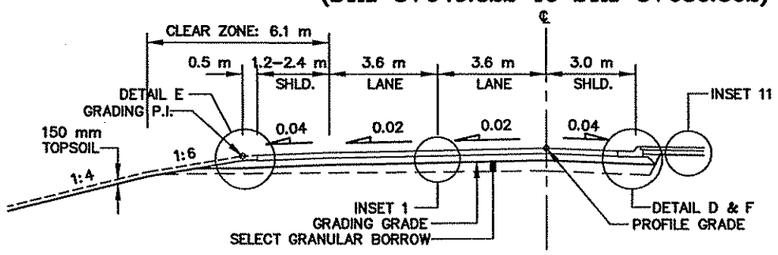
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

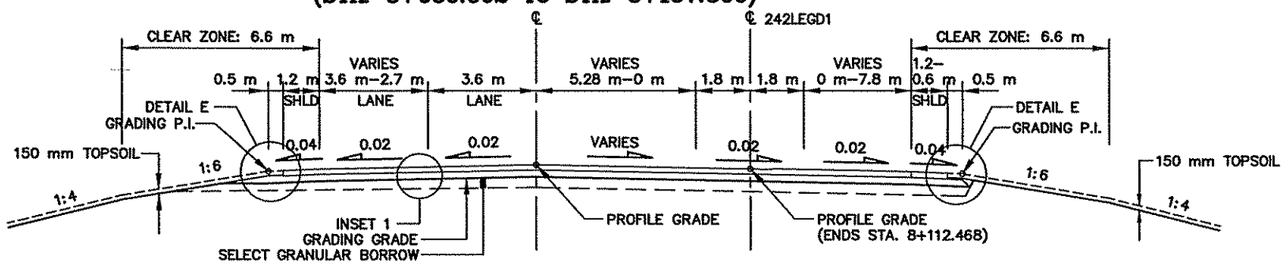
SHEET NO. 35 / 539

APBOX
PLOT DATE: Aug 23, 2004 8:54am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242etsxx.dwg

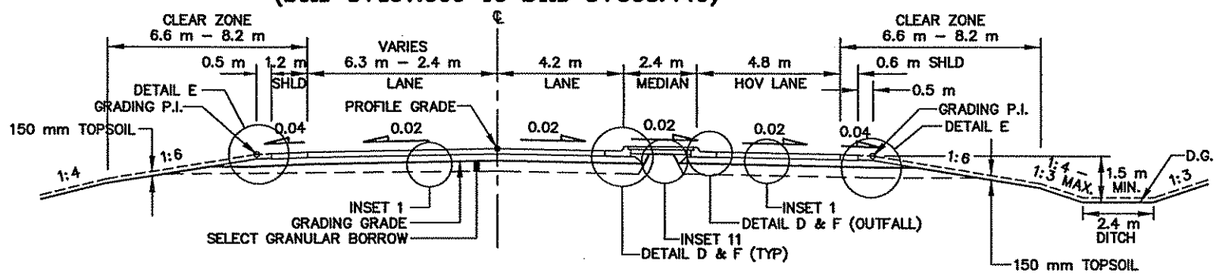
PROPOSED TYPICAL SECTION RAMP D
(STA. 8+049.822 TO STA. 8+080.502)



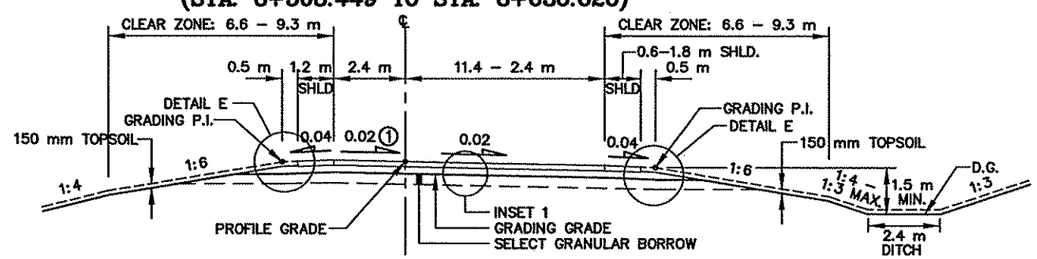
PROPOSED TYPICAL SECTION RAMP D
(STA. 8+080.502 TO STA. 8+167.500)



PROPOSED TYPICAL SECTION RAMP D
(STA. 8+167.500 TO STA. 8+508.449)



PROPOSED TYPICAL SECTION RAMP D
(STA. 8+508.449 TO STA. 8+636.626)



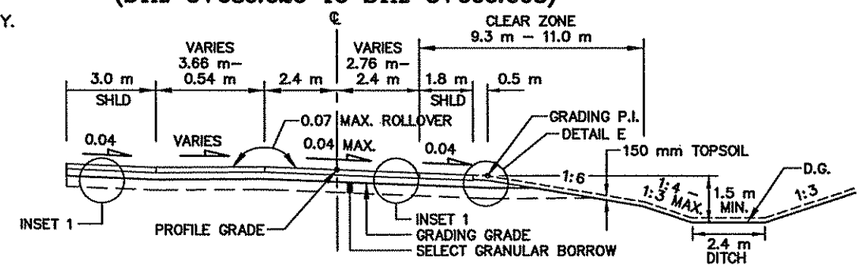
① CROSS SLOPE TRANSITION
1:200 TRANSITION FROM –0.02 m/m TO +0.02 m/m, STA. 8+508.449 TO STA. 8+527.649

NOTE:

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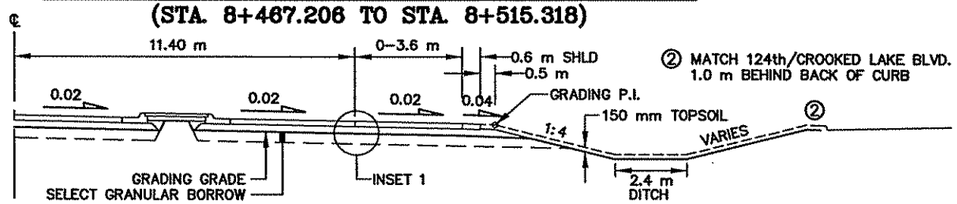
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PROPOSED TYPICAL SECTION RAMP D
RAMP WITH SUPERELEVATION
(STA. 8+636.626 TO STA. 8+666.608)

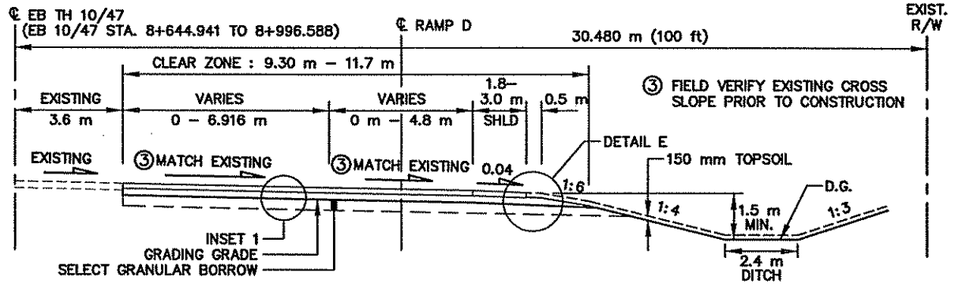


242RAMPD AND RAMP D MERGE AREA : CLEAR ZONE DISTANCES
STA. 8+048.480 TO STA. 8+112.468, R=100.000 m, 50 km/hr, (USE 6.1 m)
STA. 8+112.468 TO STA. 8+221.177, TANGENT, 80 km/hr, 6.6 m
STA. 8+221.177 TO STA. 8+347.182, R=435.000 m, 80 km/hr, 8.2 m
STA. 8+347.182 TO STA. 8+562.358, TANGENT, 80 km/hr, 6.6 m
STA. 8+562.358 TO STA. 8+599.924, R=425.000 m, 80 km/hr, 8.2 m
STA. 8+599.924 TO STA. 8+636.626, TANGENT, 90 km/hr, 9.3 m
STA. 8+636.626 TO STA. 8+723.991, R=863.554, 90 km/hr, 11.0 m
STA. 8+702.940 TO STA. 9+037.911 (E.B. TH 10/47), TANGENT, 110 km/hr, CUT : 9.3 m, FILL : 11.70 m

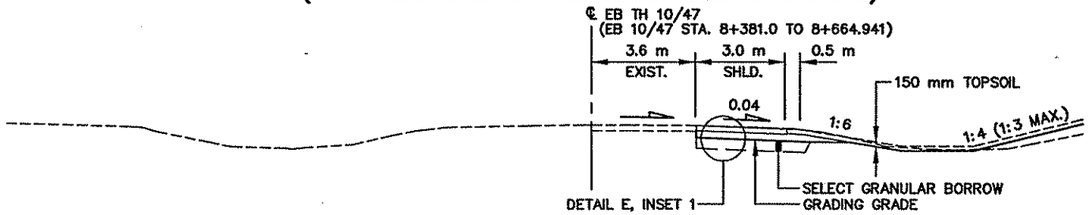
PROPOSED TYPICAL SECTION FOR RAMP D PATROL PAD
(STA. 8+467.206 TO STA. 8+515.318)



RAMP D MERGE AREA
(242RAMPD STA. 8+666.608 TO STA. 9+018.139)



PROPOSED TYPICAL SECTION EB TH 10/47 SHOULDER
(242RAMPD STA. 8+402.500 TO STA. 8+666.608)



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED RAMP D EXIT NOSE 8+636.626–8+666.608
			ADDED SUPERELEVATION TO RAMP D CURVE #122
			ADDED TYPICAL SECTION FOR PATROL PAD
			MOVED APPROACH NOSE FROM 8+160 TO 8+167.50
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS10
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242RAMPD and RAMP D MERGE AREA
TYPICAL SECTIONS
RAMP D and RAMP D MERGE AREA

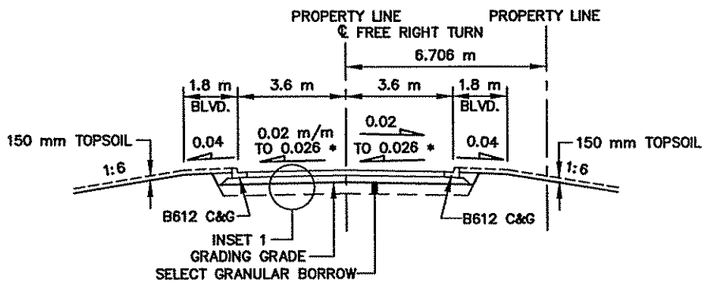
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

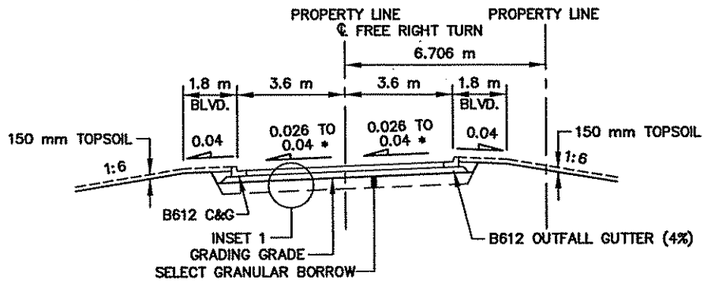
SHEET NO. 36 / 539

PLOT DATE: Aug 23, 2004 8:54am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242ets...dwg

PROPOSED TYPICAL SECTION PRIVATE DRIVE
(FREE RIGHT TURN TO MARCUS THEATRE SITE)
(STA. 0+000.000 TO STA. 0+013.962)



PROPOSED TYPICAL SECTION PRIVATE DRIVE
(FREE RIGHT TURN TO MARCUS THEATRE SITE)
(STA. 0+013.962 TO STA. 0+066.196

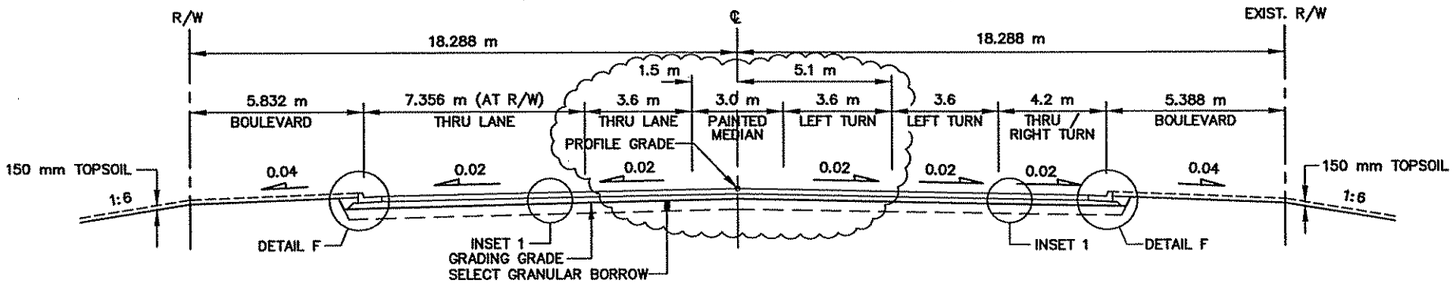


* 1:80 CROSS SLOPE TRANSITION
FROM −0.02 m/m TO +0.04 m/m, RT., STA. 0+000.714 TO STA. 0+017.994
FROM +0.02 m/m TO +0.04 m/m, LT., STA. 0+012.234 TO STA. 0+017.994

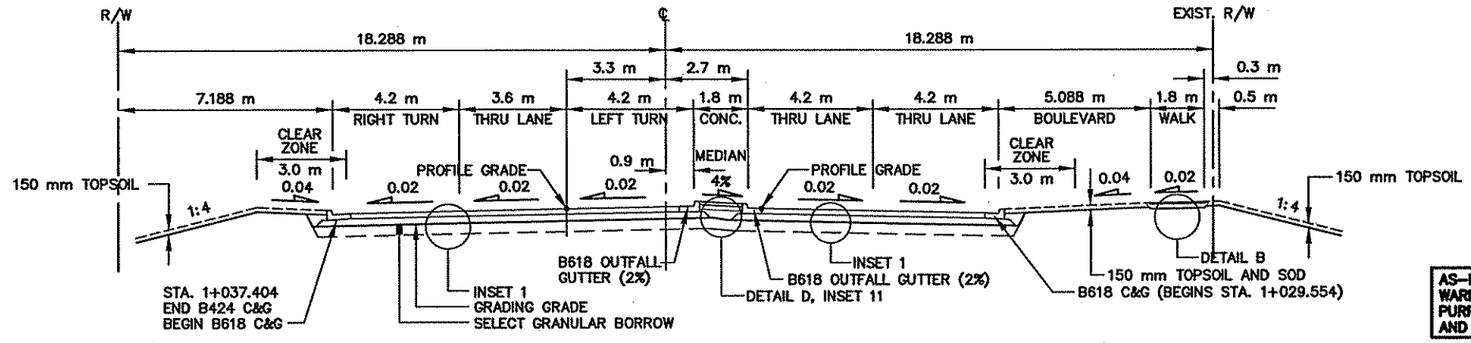
NOTE:

NOT ALL EASEMENTS ARE SHOWN ON PLAN VIEW FOR CLARITY. ALL EASEMENTS ARE SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.

PROPOSED TYPICAL SECTION PRIVATE DRIVE
SOUTH OF MAIN STREET/T.H. 242
(STA. 0+965.256 TO STA. 1+000.000)



PROPOSED TYPICAL SECTION COON CREEK BOULEVARD
NORTH OF MAIN STREET/T.H. 242
(STA. 1+000 TO STA. 1+051.516)



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCES TO NOTE 8
2	IKR	07/14/00	MOD.REQ.#51: MODIFIED TYP PRIVATE DR. S. OF MAIN ST.
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS06
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
PRIVATE DRIVE, COON CREEK BOULEVARD
TYPICAL SECTIONS
PRIVATE DRIVE for MARCUS THEATRE and COON CREEK BOULEVARD

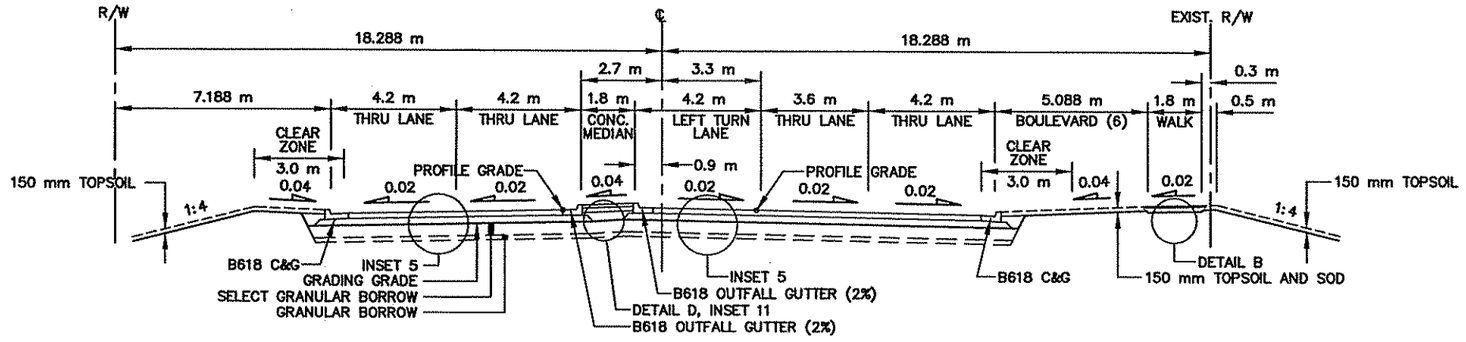
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

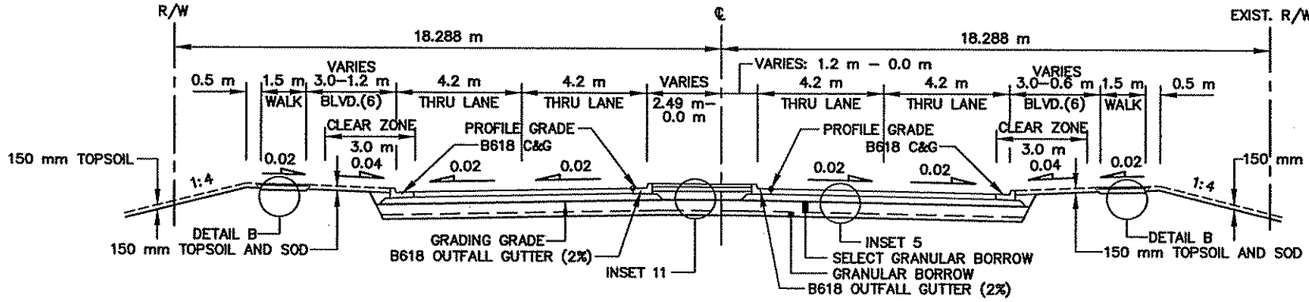
SHEET NO. 37 / 539

PLOT DATE: Aug 23, 2004 8:53am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242ets...dwg

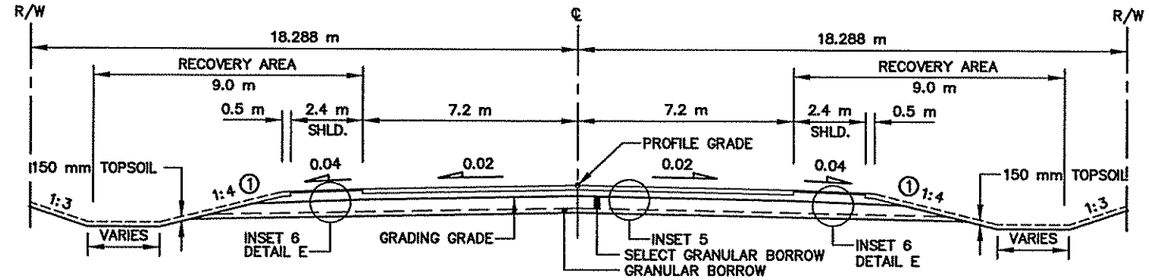
PROPOSED TYPICAL SECTION COON CREEK BOULEVARD
BEGINNING OF RECONSTRUCTION TO 128th AVENUE NW
(STA. 1+200.000 TO STA. 1+278.301)



PROPOSED TYPICAL SECTION COON CREEK BOULEVARD
128th AVE. NW TO BRIDGE APPROACH
(STA. 1+278.301 TO STA. 1+353.264)



PROPOSED TYPICAL SECTION COON CREEK BOULEVARD
BRIDGE APPROACH TO END RECONSTRUCTION
(STA. 1+405.494 TO STA. 1+520.000)



① WHERE DITCH SLOPE IS GREATER THAN 1:4, GUARDRAIL WILL BE PROVIDED

NOTE:

NOT ALL EASEMENTS ARE SHOWN ON PLAN VIEW FOR CLARITY. ALL EASEMENTS ARE SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS11
DATE: NOVEMBER 5, 1999

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BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
TYPICAL SECTIONS
128th AVE. NW to END RECONSTRUCTION

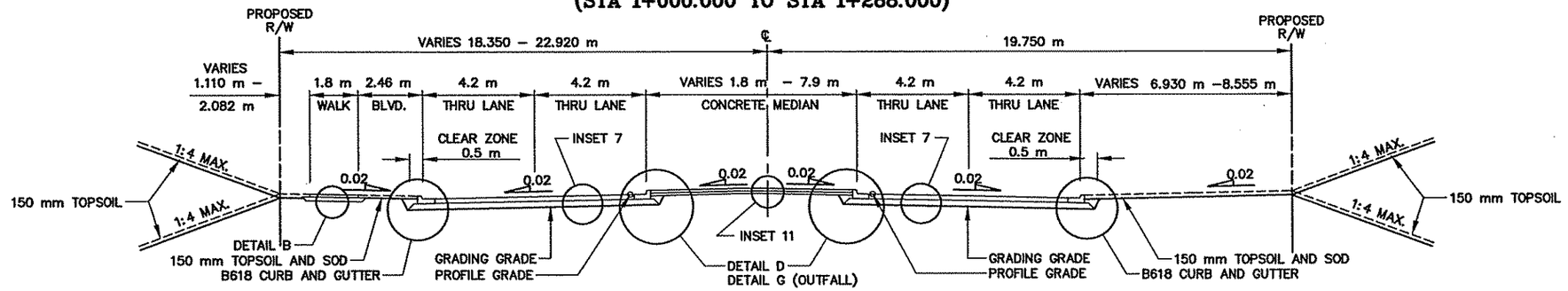
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 38 / 539

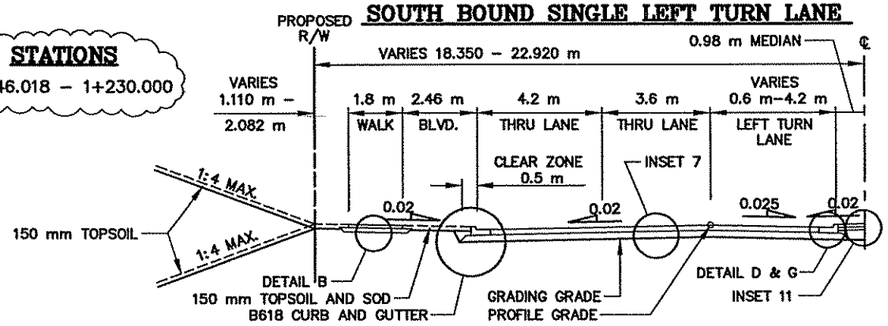
PLOT DATE: Aug 23, ...04 8:52am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242et....dwg

PROPOSED TYPICAL SECTION NORTHDALE BOULEVARD
(STA 1+000.000 TO STA 1+288.000)



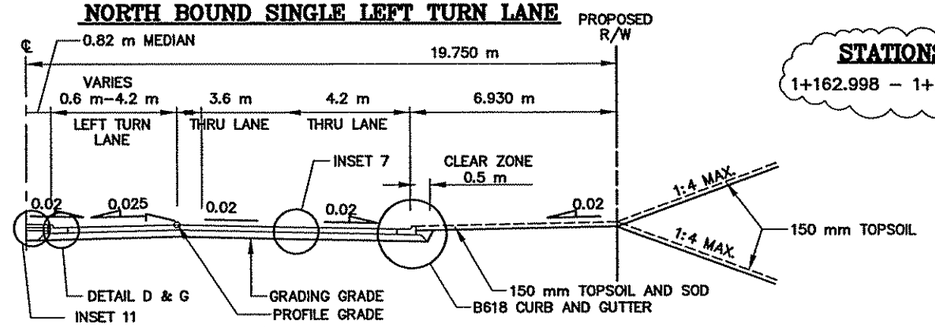
SOUTH BOUND SINGLE LEFT TURN LANE

STATIONS
1+146.018 – 1+230.000



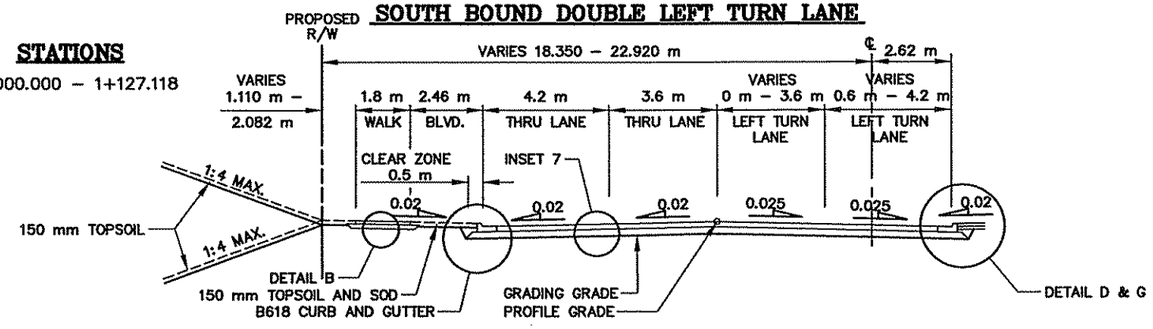
NORTH BOUND SINGLE LEFT TURN LANE

STATIONS
1+162.998 – 1+242.059



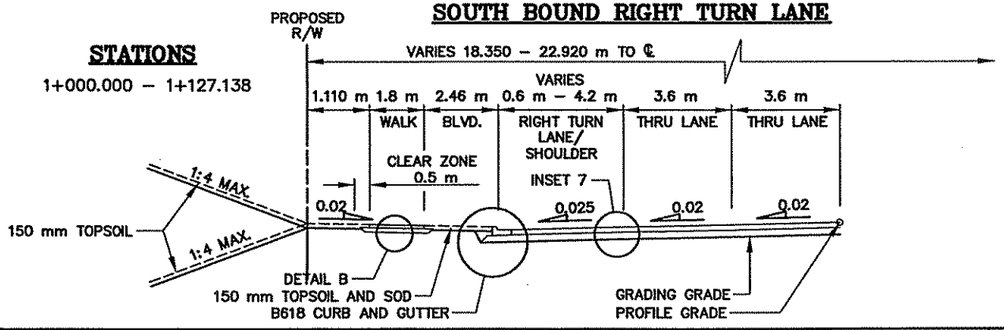
SOUTH BOUND DOUBLE LEFT TURN LANE

STATIONS
1+000.000 – 1+127.118



SOUTH BOUND RIGHT TURN LANE

STATIONS
1+000.000 – 1+127.138



NOTE:

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	8/08/00	MOD.REQ.#56: REMOVED 1.8 m WALK 1+000–1+288, RT.
2	JJL	9/29/00	MOD. REQ. #69: MOD. TURN LANE AND MEDIAN
3	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242–TYP2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Fields
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD
TYPICAL SECTIONS
STATION 1+000.000 TO STATION 1+288.000

CITY PROJECT 98–20

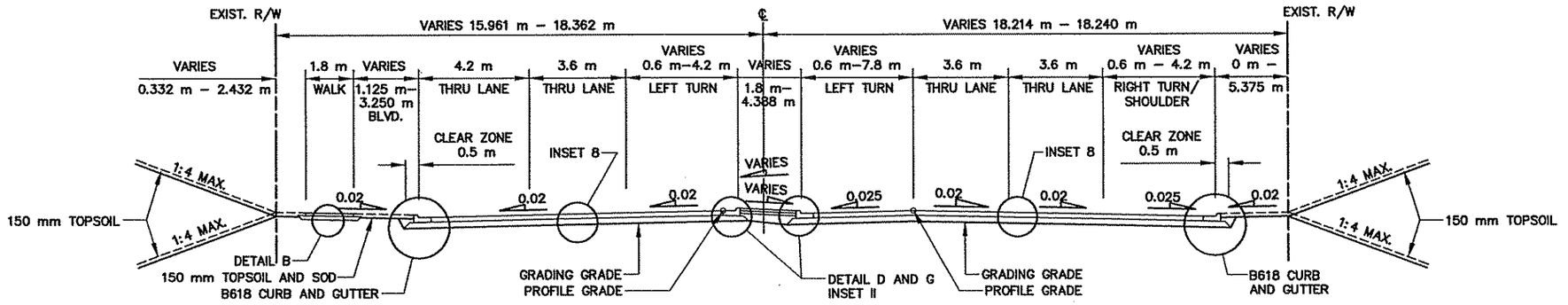
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 39 / 539

PLOT DATE: Aug 23, 2004 9:02 J:\SK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\242–typ2.dwg

APBOX

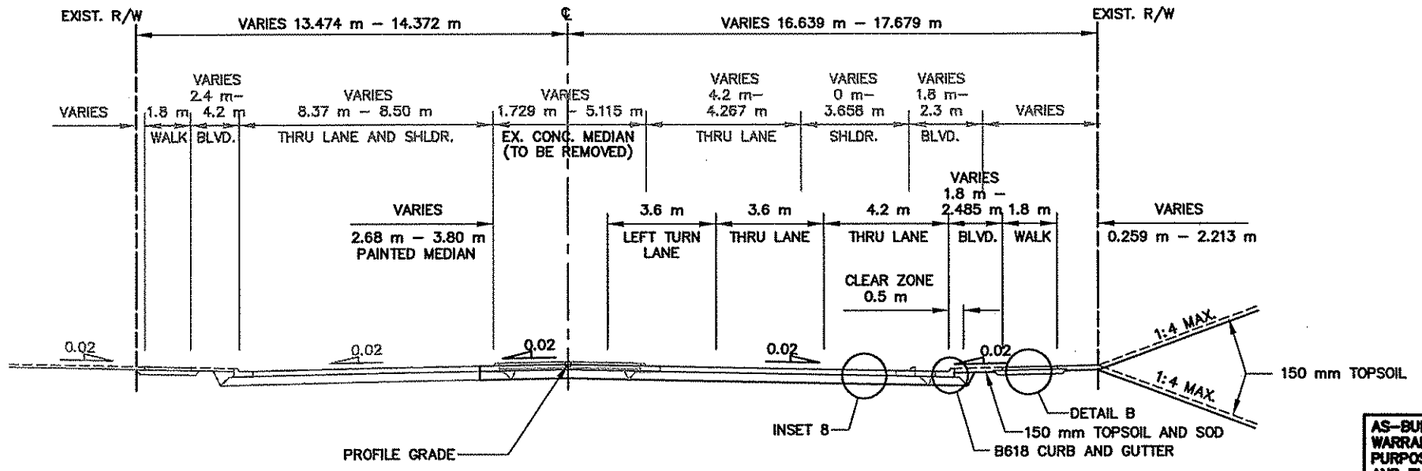
PROPOSED TYPICAL SECTION NORTHDALE BOULEVARD
(STA. 0+835.064 TO STA. 1+000.000)



NOTE:

NOT ALL EASEMENTS ARE SHOWN ON PLAN VIEW FOR CLARITY. ALL EASEMENTS ARE SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.

PROPOSED TYPICAL SECTION NORTHDALE BOULEVARD
(STA. 0+750.215 TO STA. 0+835.064)



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	6/01/00	MOD.REQ.#27: REV.TYP. 0+750.215–0+835.064 TO SHOW MEDIAN REMOVED, MODIFIED TYPICAL 0+835.064–1+000.
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242–TYP5
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD
TYPICAL SECTIONS
STATION 0+750.215 TO STATION 1+000.000

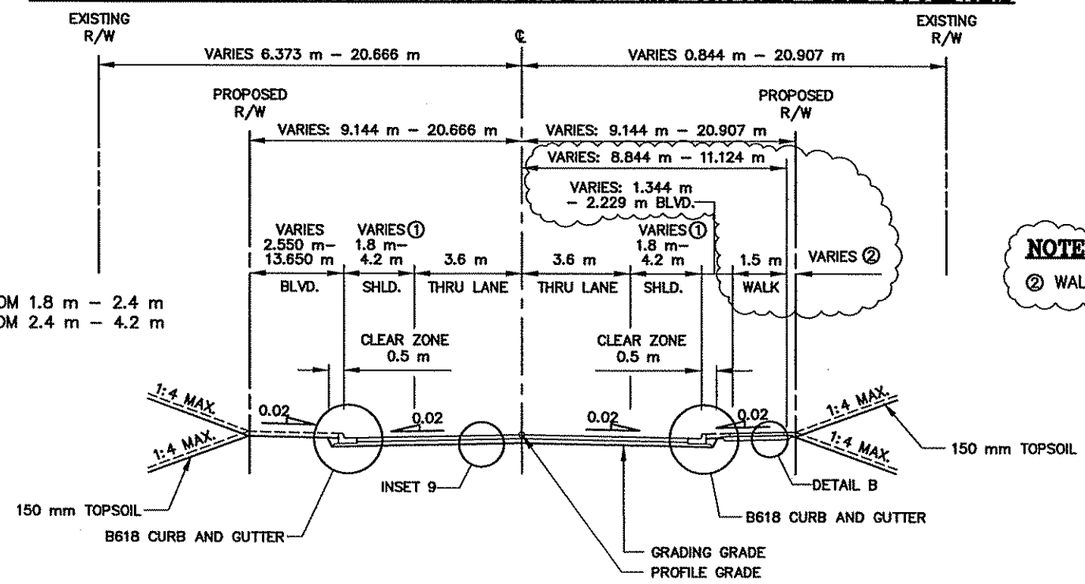
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 40 / 539

PLOT DATE: Aug 23, 2004 9:03am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\242–typ5.dwg

PROPOSED TYPICAL SECTION – 124th AVENUE NW and CROOKED LAKE BOULEVARD



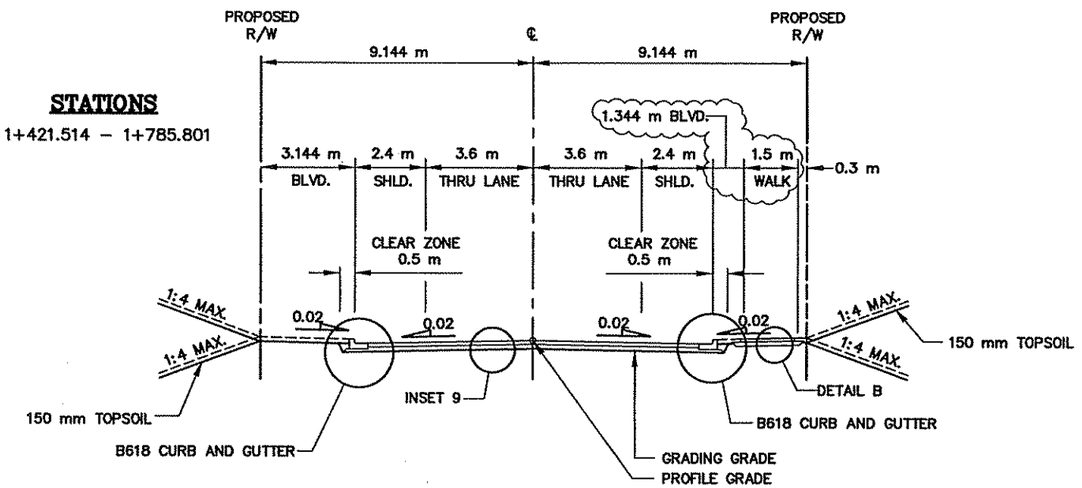
STATIONS ①

1+319.686 – 1+421.514: SHLD. WIDTH VARIES FROM 1.8 m – 2.4 m
1+785.801 – 1+890.110: SHLD. WIDTH VARIES FROM 2.4 m – 4.2 m

NOTE:

② WALK VARIES FROM 0.2 m SOUTH OF R/W TO 12.06 m NORTH OF R/W

PROPOSED TYPICAL SECTION – 124th AVENUE NW and CROOKED LAKE BOULEVARD



STATIONS

1+421.514 – 1+785.801

NOTE:

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AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	8/09/00	MOD.REQ.#58: REVISED WALK WIDTH FROM 1.8 TO 1.5 m
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242-TYP4
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Gilb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
124th AVENUE NW and
CROOKED LAKE BOULEVARD
TYPICAL SECTIONS

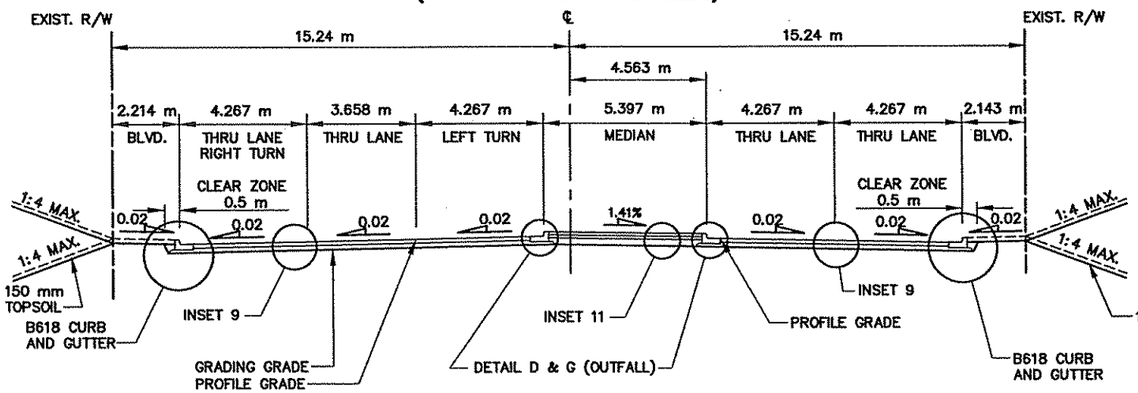
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

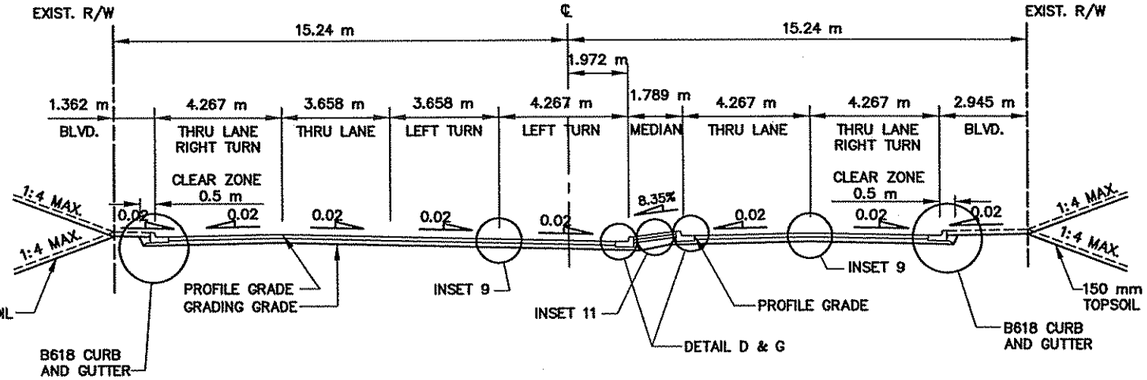
SHEET NO. 41 / 539

PLOT DATE: Aug 23, 2004 DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\242-typ4.dwg

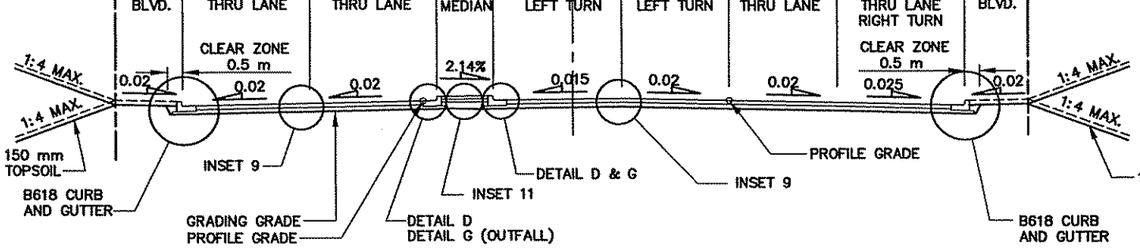
PROPOSED TYPICAL SECTION – RIVER RAPIDS DRIVE (NORTH OF MAIN STREET)



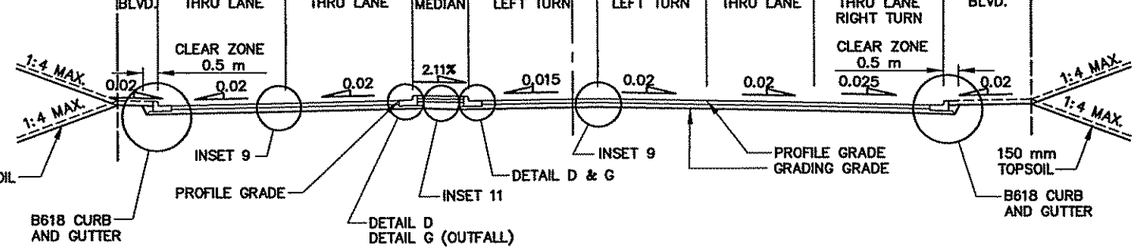
PROPOSED TYPICAL SECTION – RIVERDALE VILLAGE BOULEVARD (NORTH OF MAIN STREET)



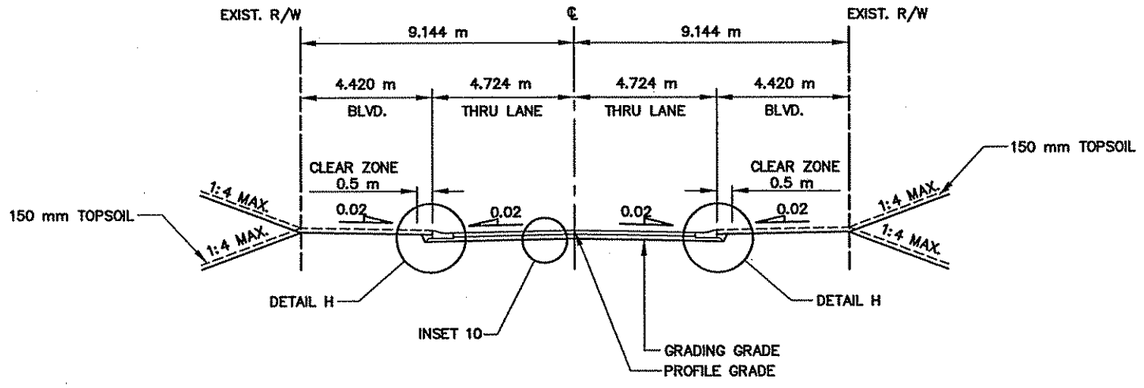
PROPOSED TYPICAL SECTION – RIVER RAPIDS DRIVE (SOUTH OF MAIN STREET)



PROPOSED TYPICAL SECTION – RIVERDALE VILLAGE BOULEVARD (SOUTH OF MAIN STREET)



PROPOSED TYPICAL SECTION – HEATHER STREET, GLADIOLA STREET AND 123RD AVENUE



NOTE:

NOT ALL EASEMENTS ARE SHOWN ON PLAN VIEW FOR CLARITY. ALL EASEMENTS ARE SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242-TYP3
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION

RIVER RAPIDS DRIVE, RIVERDALE VILLAGE BOULEVARD, 124th AVE. NW/CROOKED LAKE BOULEVARD, HEATHER STREET, GLADIOLA STREET and 123rd AVE.
TYPICAL SECTIONS

CITY PROJECT 98-20

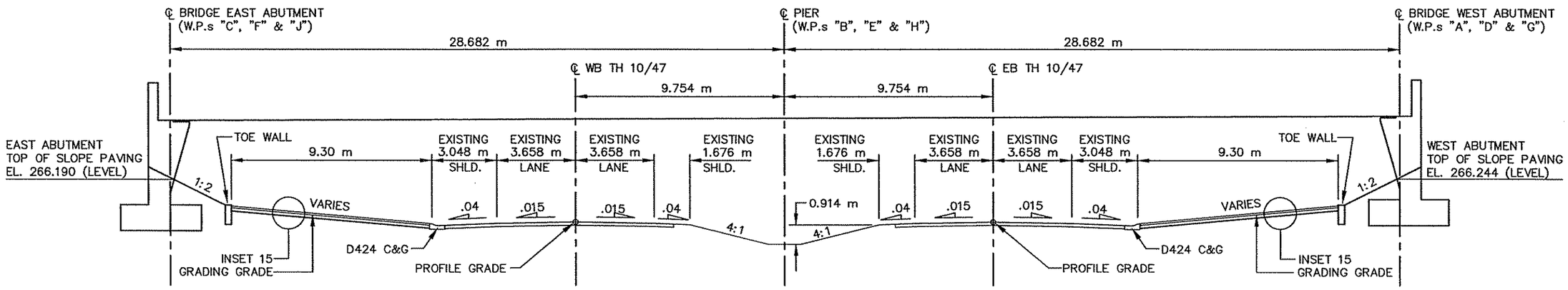
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 42 / 539

PLOT DATE: Aug 23, 2004 9:... DISK FILE NAME: (15.08) R:\33889\33889028\33889WPLAN_SHT\ENGRING\242-typ3.dwg

APBOX

PROPOSED TYPICAL SECTION – T.H. 10\47 at T.H. 242 BRIDGE
(STA. 8+048.540 TO STA. 8+132.839)



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	8/04/00	MOD. REQ. #53: ADDED SHEET (TYPICAL FOR TH 10/47)
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242TYPTH10
DATE: AUGUST 4, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 8/04/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
TRUNK HIGHWAY 10/47
TYPICAL SECTION
T.H. 10/47 UNDER T.H. 242 BRIDGE

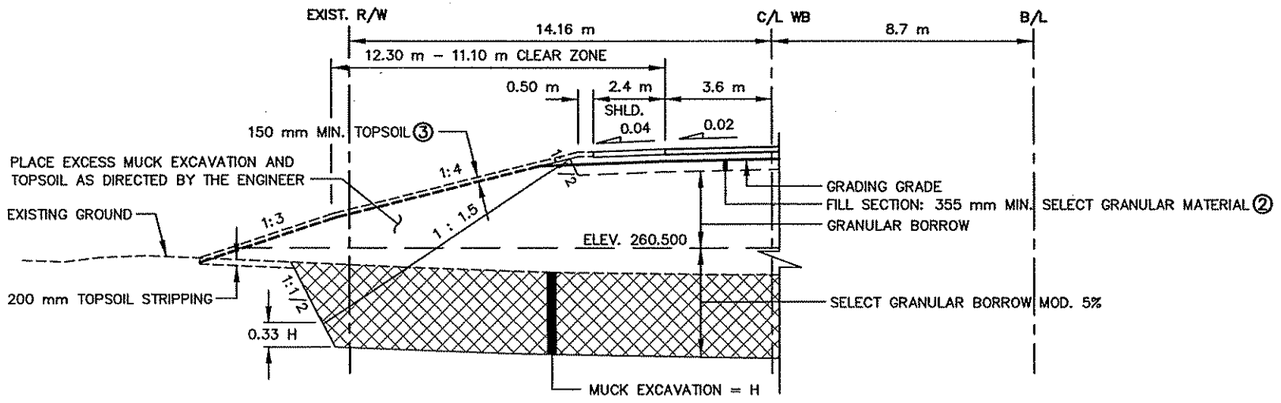
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
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S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

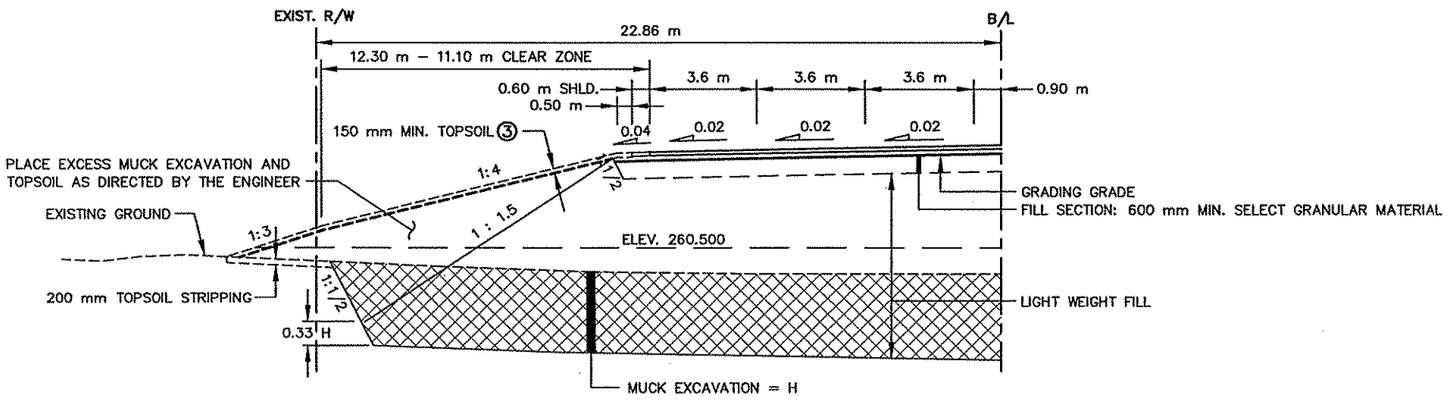
SHEET NO. 42A / 539

PLOT DATE: Aug 23, 2004 8:51am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242typTH10.dwg

MUCK EXCAVATION DETAIL
MAIN STREET/TH 242 TO STA. 4+040.000
(SEE CROSS SECTIONS FOR LOCATION)



MUCK EXCAVATION DETAIL
MAIN STREET/TH 242 STA. 4+040.000 TO STA. 4+056.854
(SEE CROSS SECTIONS FOR LOCATION)



MUCK EXCAVATION NOTES:

① ALL FILLSLOPES, BACKSLOPES, AND DITCH BOTTOMS ARE TO BE FINISHED TO A ROUNDED SECTION .

② 355 mm OF SELECT GRANULAR MATERIAL TO BE PLACED BELOW GRADING GRADE .

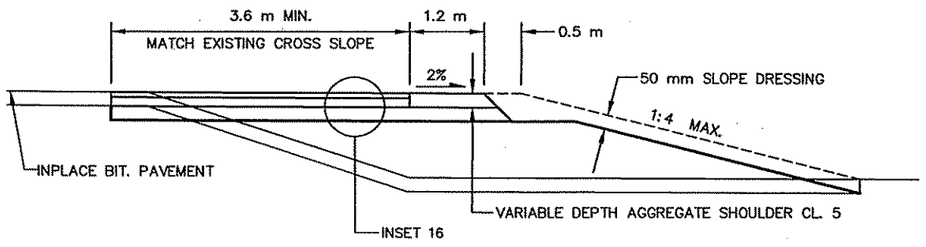
③ REFER TO TURF ESTABLISHMENT SHEETS FOR SOD OR SEED AREAS

④ SEE PROFILES AND CROSS SECTIONS FOR MUCK EXCAVATION DEPTH.

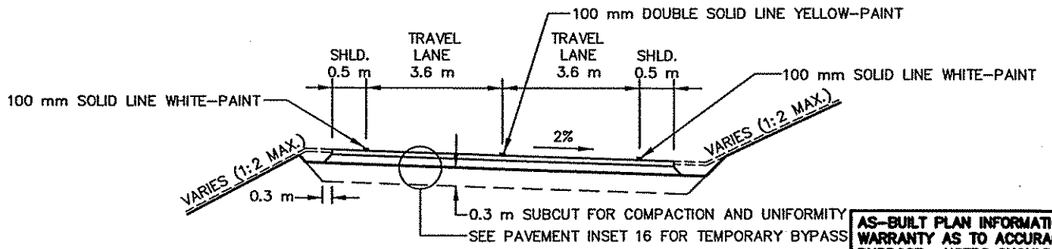
NOTE:

NOT ALL EASEMENTS ARE SHOWN ON PLAN VIEW FOR CLARITY. ALL EASEMENTS ARE SHOWN ON TYPICAL SECTIONS AND ON CROSS SECTIONS.

MAIN STREET (CSAH 14/TH 242)
TEMPORARY PAVEMENT SECTION



TYPICAL SECTION TH 242 AT COON CREEK BLVD.
TEMPORARY BYPASS CONSTRUCTION



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16 OF 16

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED TYPICALS FOR CONSTRUCTION STAGING
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ETS07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

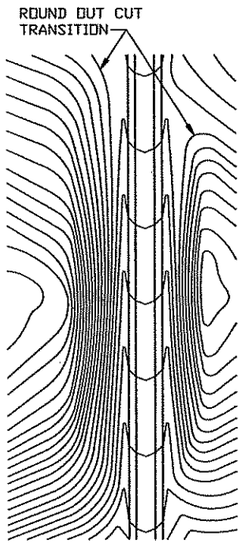
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
TYPICAL SECTIONS
TYPICAL FOR MUCK EXCAVATION

CITY PROJECT 98–20

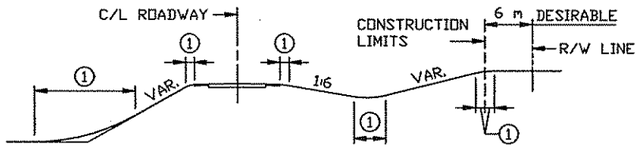
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 43 / 539

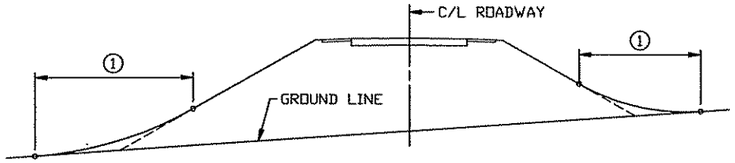
APBOX
PLOT DATE: Aug 2: 4 8:49am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242e .dwg



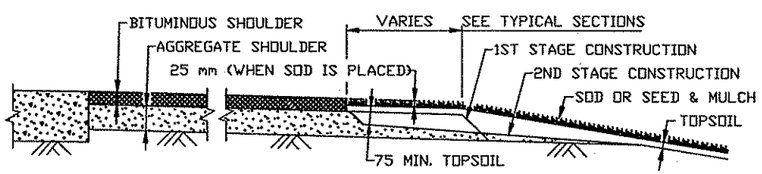
CONTOURING ROAD CUTS



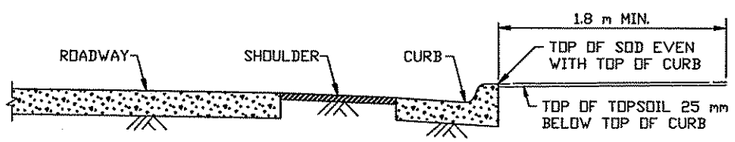
ROUNDING SHOULDERS AND BACKSLOPES



SHAPING FOR DRAINAGE ALONG THE TOE OF FILL SLOPES



SHAPING AND TOPSOILING INSLOPES



SHAPING ADJACENT TO CURBS WHEN SOD IS PLACED

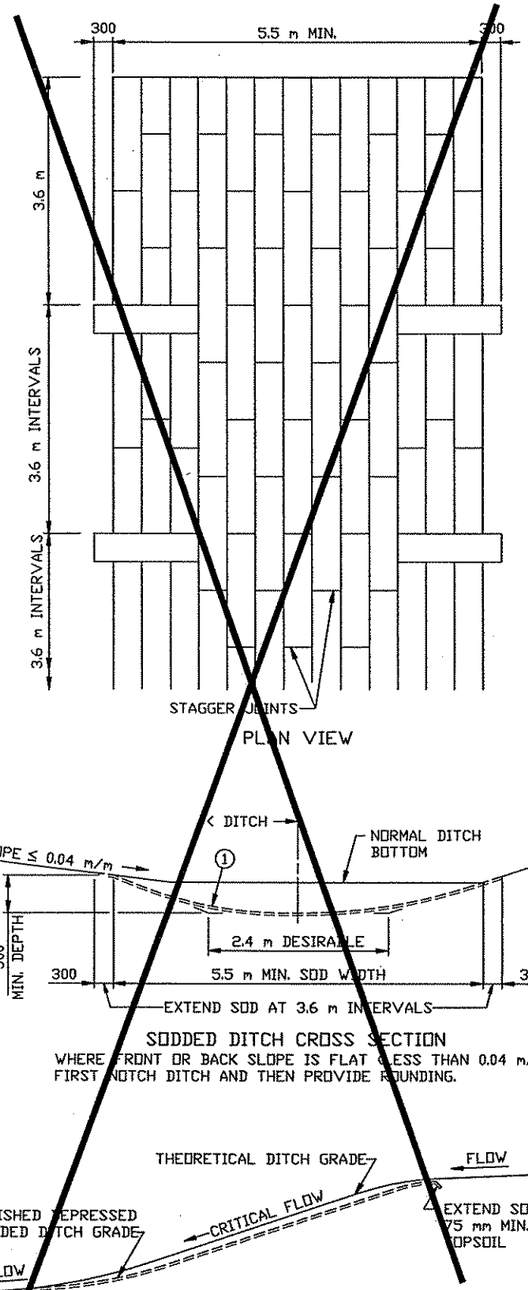
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:

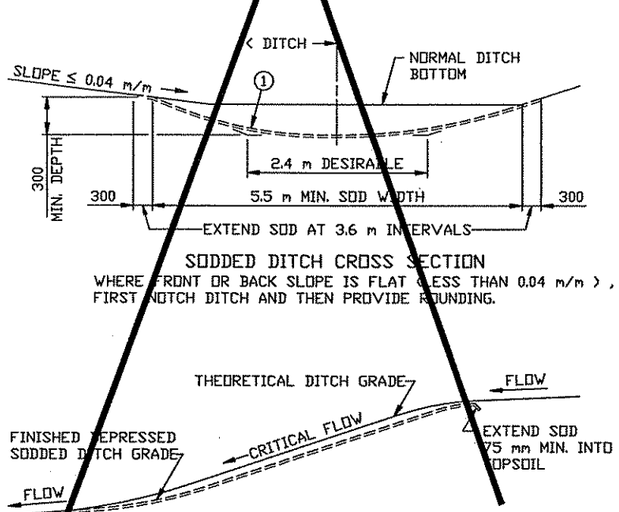
SEE SPEC. 2575.3 FOR ADDITIONAL INFORMATION.

① FOR ROUNDING, SEE ROAD DESIGN MANUAL.

② CONSTRUCT TAPER AS DIRECTED BY THE ENGINEER.



PLAN VIEW

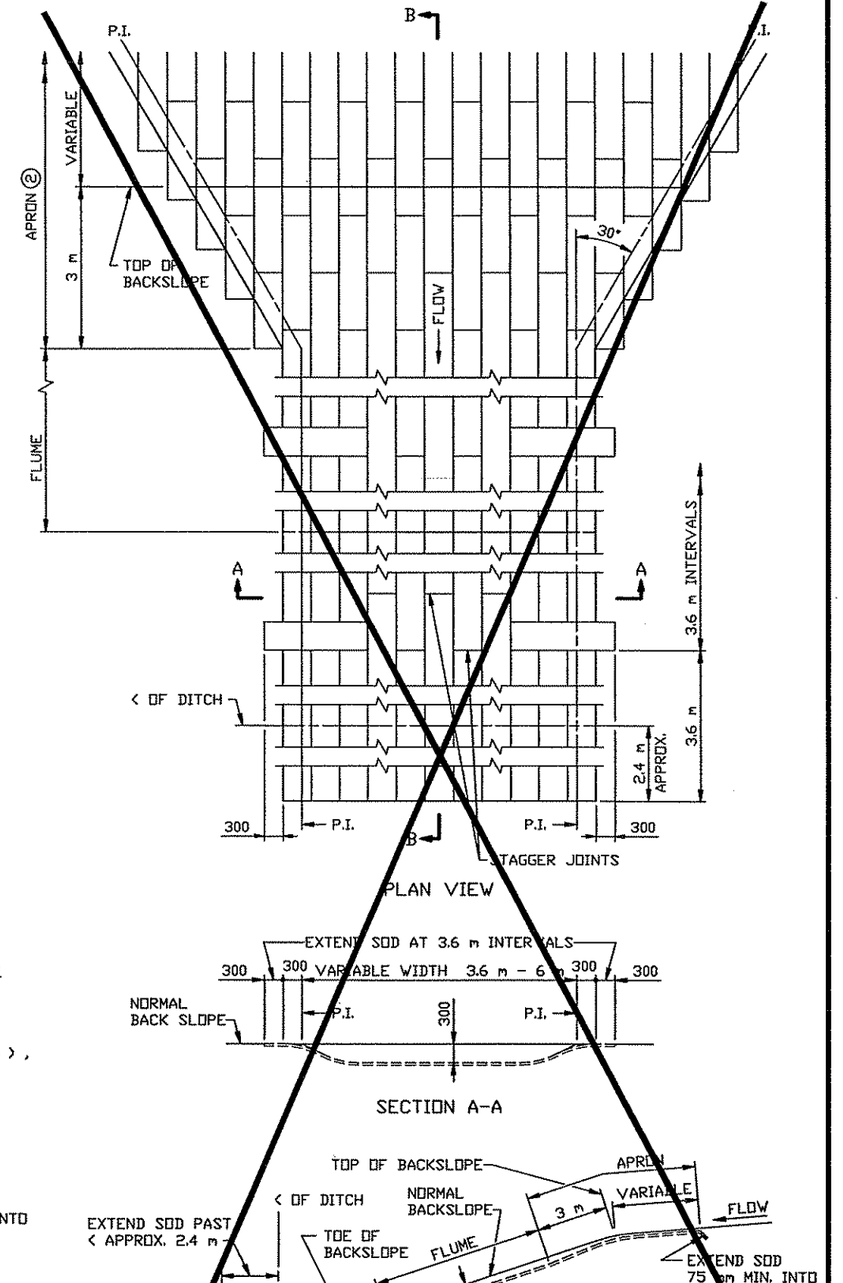


SODDED DITCH CROSS SECTION

WHERE FRONT OR BACK SLOPE IS FLAT (LESS THAN 0.04 m/m), FIRST NOTCH DITCH AND THEN PROVIDE ROUNDING.

DITCH PROFILE

SODDED DITCH DETAILS



PLAN VIEW

SECTION A-A

SECTION B-B

SODDED FLUME DETAILS

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

minnesota metric

REVISION DATE 3-6-95

STANDARD SHEET NO. 5-297.404M

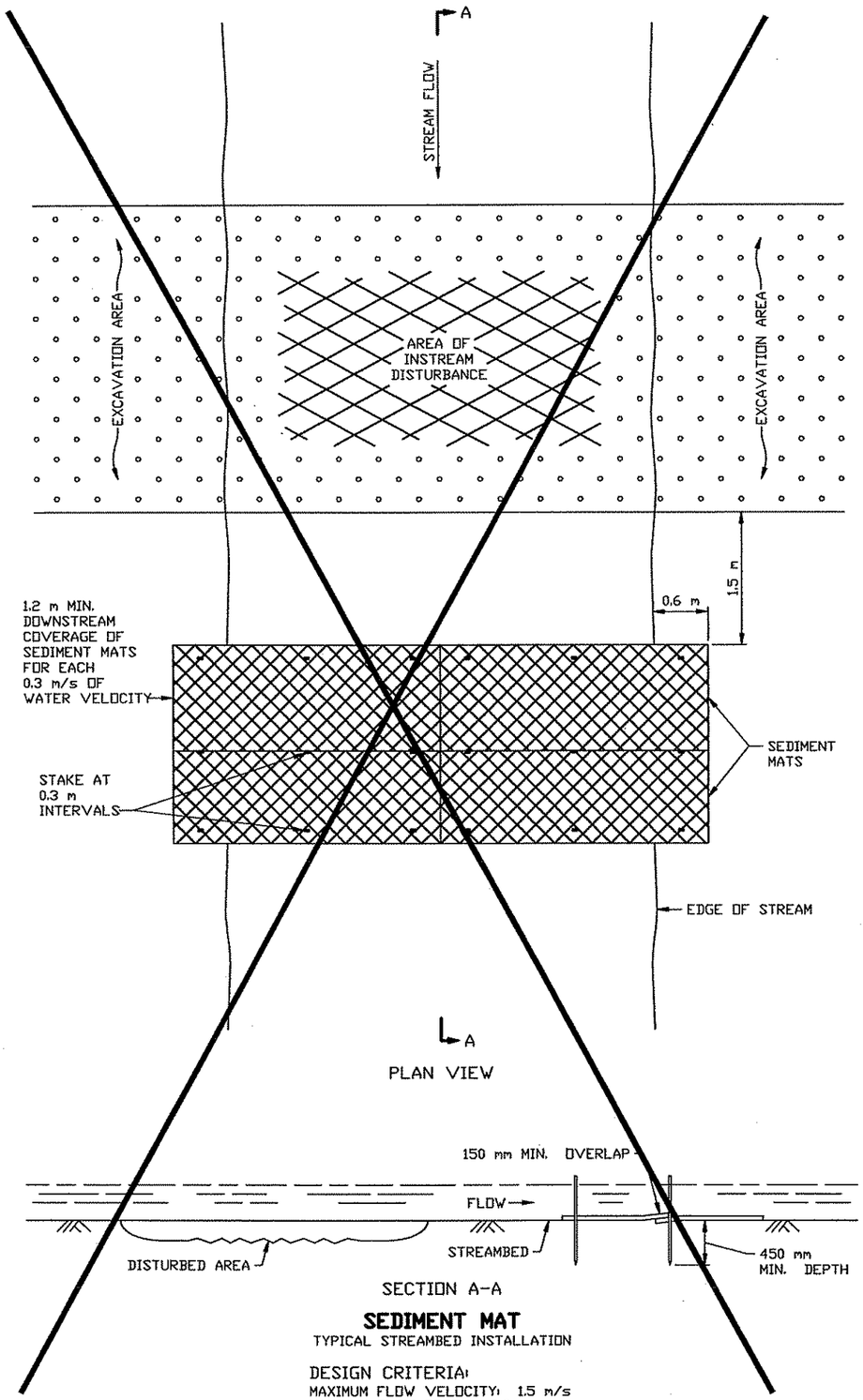
STANDARD APPROVED DECEMBER 19, 1990

TITLE: **PERMANENT EROSION CONTROL** ALONG ROADWAYS, DITCHES AND FLUMES

STATE PROJ NO. 0212-40

SHEET NO. 44 OF 539 SHEETS

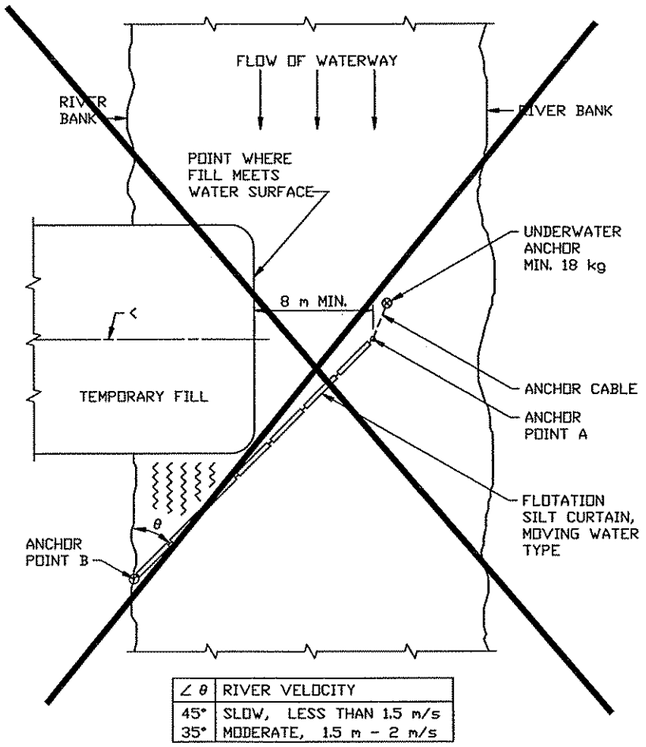
PLOT DATE: Aug 11 12:41pm DISK FILE NAME: (15.06) R:\33689\33689028\33689W\PLAN_SHEET\sm404190.dwg
FILE NAME SM404L90.SPN



SEDIMENT MAT

TYPICAL STREAMBED INSTALLATION

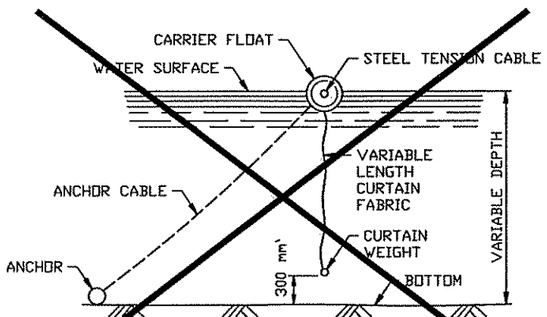
DESIGN CRITERIA:
MAXIMUM FLOW VELOCITY: 1.5 m/s
MAXIMUM FLOW DEPTH: 0.6 m



∠ θ	RIVER VELOCITY
45°	SLOW, LESS THAN 1.5 m/s
35°	MODERATE, 1.5 m - 2 m/s

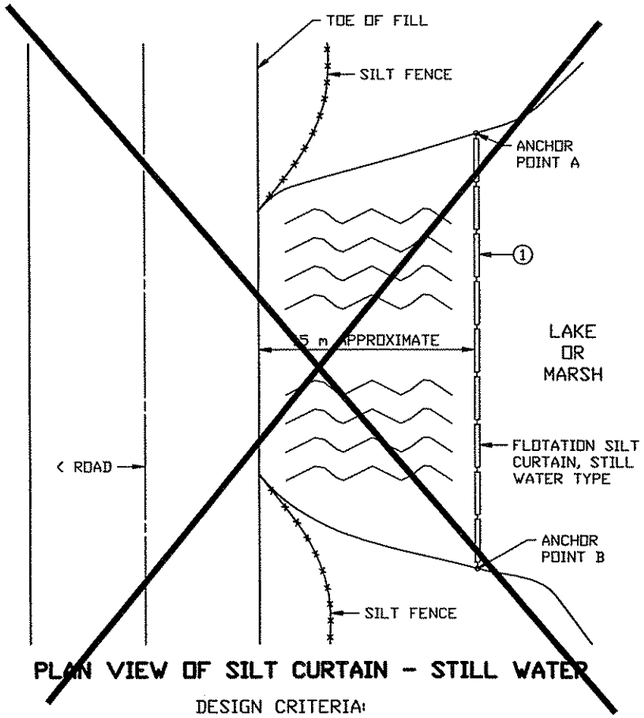
PLAN VIEW OF SILT CURTAIN - MOVING WATER

DESIGN CRITERIA:
MAXIMUM WATER DEPTH: 3.6 m
MAXIMUM WATER VELOCITY: 2.1 m/s



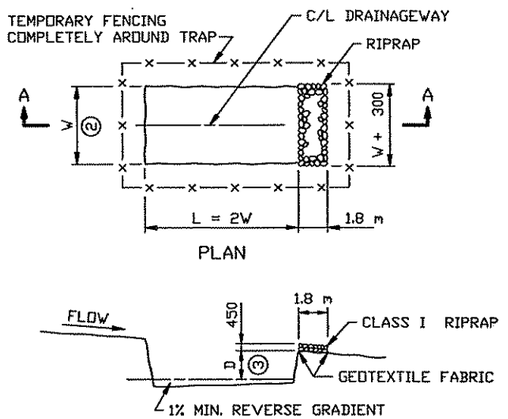
FLOTATION SILT CURTAIN DETAIL

(SEE SPEC. 3887)



PLAN VIEW OF SILT CURTAIN - STILL WATER

DESIGN CRITERIA:
MAXIMUM WATER DEPTH: 3.6 m



TEMPORARY SEDIMENT TRAP DETAIL

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:
1. CURTAIN 300 mm FROM BOTTOM
2. W = 3 m MIN., 6 m MAX.
3. D = 1 m MIN., 1.8 m MAX.

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

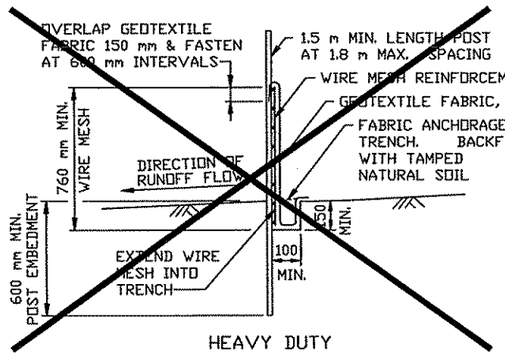
Minnesota metric
REVISION DATE 5-19-97

STANDARD SHEET NO. 5-297.405M (1 OF 3)
STANDARD APPROVED: MAY 1, 1995

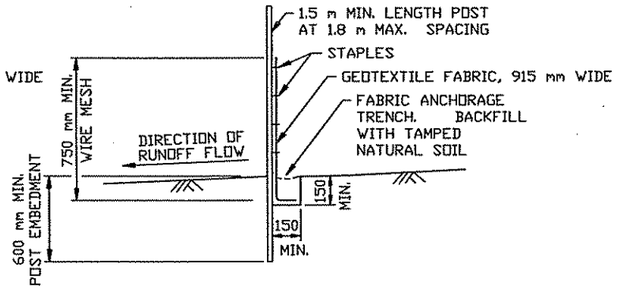
TITLE:
TEMPORARY EROSION CONTROL

STATE PROJ NO. 0212-40

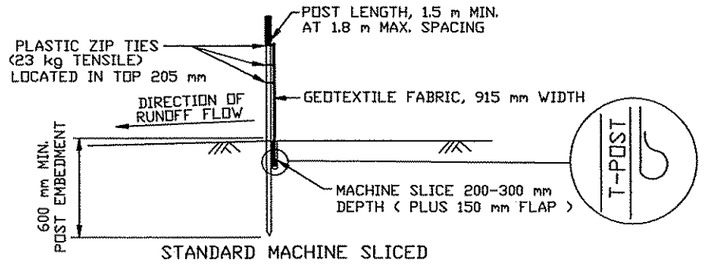
PLOT DATE: Aug 19, 4 12:59pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH...RING\sm4051e95.dwg
FILE NAME SM4us1E95.SPN



HEAVY DUTY



PREASSEMBLED

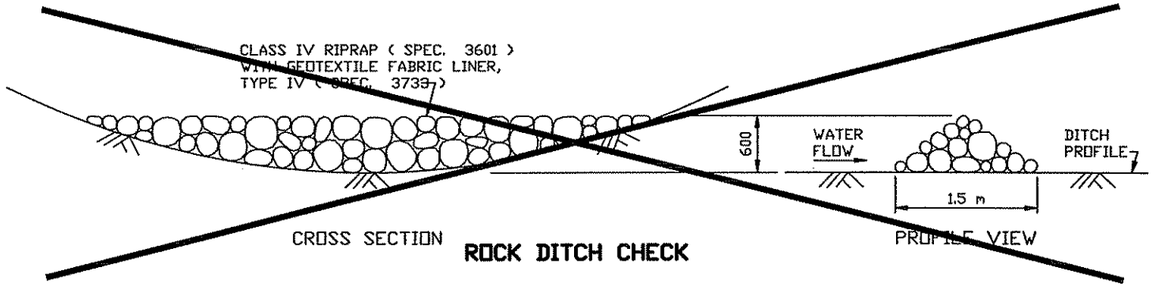


STANDARD MACHINE SLICED

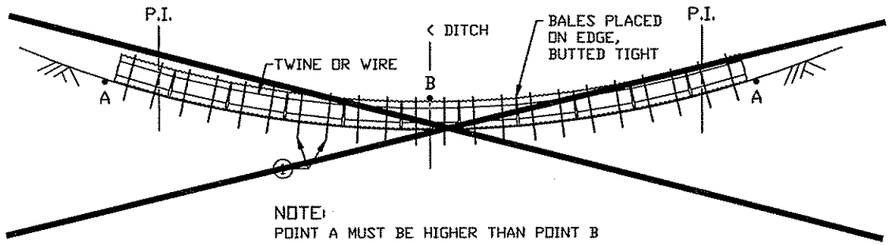
DESIGN CRITERIA:
MAXIMUM CONTRIBUTING AREA: 1.2 ha

SILT FENCE DETAILS

TO PROTECT AREAS FROM SHEET FLOW
(SEE SPEC. 3886)

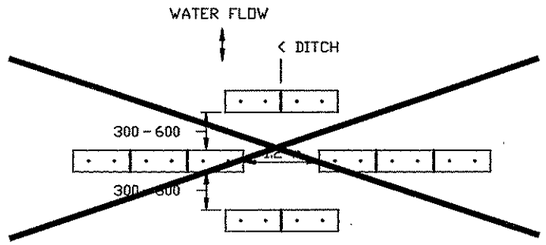


ROCK DITCH CHECK

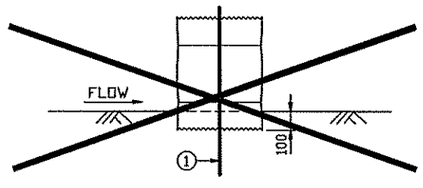


NOTE:
POINT A MUST BE HIGHER THAN POINT B

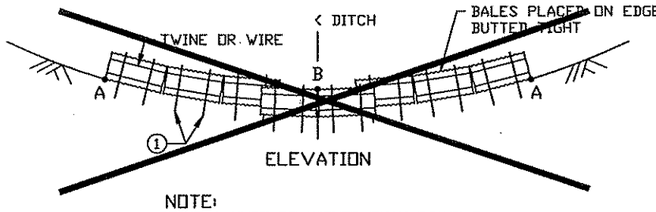
BALE DITCH SEDIMENT CHECK



PLAN VIEW



BALE CHECK DETAIL



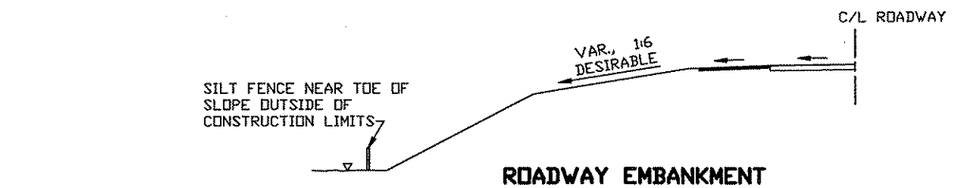
ELEVATION

NOTE:
POINT A MUST BE HIGHER THAN POINT B

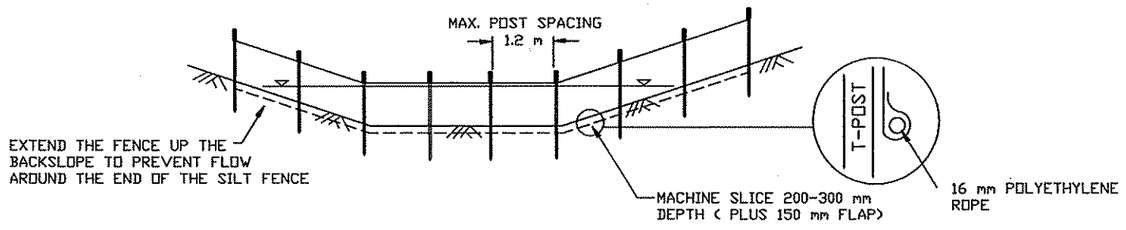
BALE DITCH VELOCITY CHECKS

(WILL REQUIRE A MINUMUM OF 10 BALES PER SITE)

RECOMMENDED SPACING BETWEEN DITCH CHECKS	
DITCH GRADE (%)	SPACING (m)
2	30
4	23
6	15
8	12
10	8



ROADWAY EMBANKMENT



SPACING DISTANCE = SILT FENCE HEIGHT/ % CHANNEL SLOPE

SILT FENCE DITCH CHECK TYPE MACHINE SLICED

DESIGN CRITERIA	
STORM FREQUENCY	2 YR.- 24 HR.
MAX. DITCH GRADE	5%
MAX. DRAINAGE AREA	0.40 ha

~~DESIGN CRITERIA:~~

	BALE	ROCK
STORM FREQUENCY:	2 YR. - 24 HR.	10 YR. - 24 HR.
MAX. FLOW VELOCITY:	1.5 m/s	3.6 m/s
MAX. DITCH GRADE:	5%	—
MAX. DRAINAGE AREA:	0.8 ha	20 ha

NOTE:
(1) ~~TWO 50 mm X 50 mm WOOD STAKES OR REINFORCING BARS IN EACH BALE AND EMBEDDED IN THE GROUND 250 mm MINIMUM.~~

NOTE: WHEN SEDIMENT BUILD UP REACHES 460 mm THE SILT SHOULD BE REMOVED OR A SECOND SILT FENCE BUILT UPSTREAM THE EXISTING ONE AT A SUITABLE DISTANCE.

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kiel
DATE: 11/5/99 MINN. REG. NO. 23211

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

minnesota metric
REVISION DATE 3-25-99

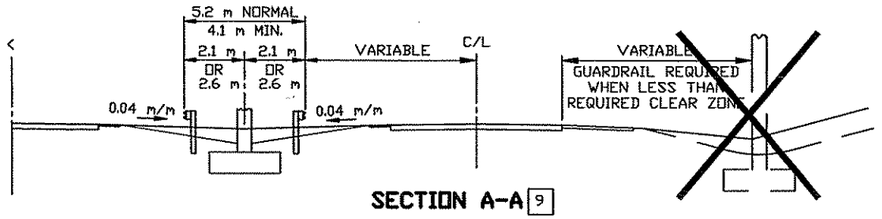
STANDARD SHEET NO. 5-297.405M (2 OF 3)
STANDARD APPROVED MAY 1, 1995

TITLE: TEMPORARY EROSION CONTROL

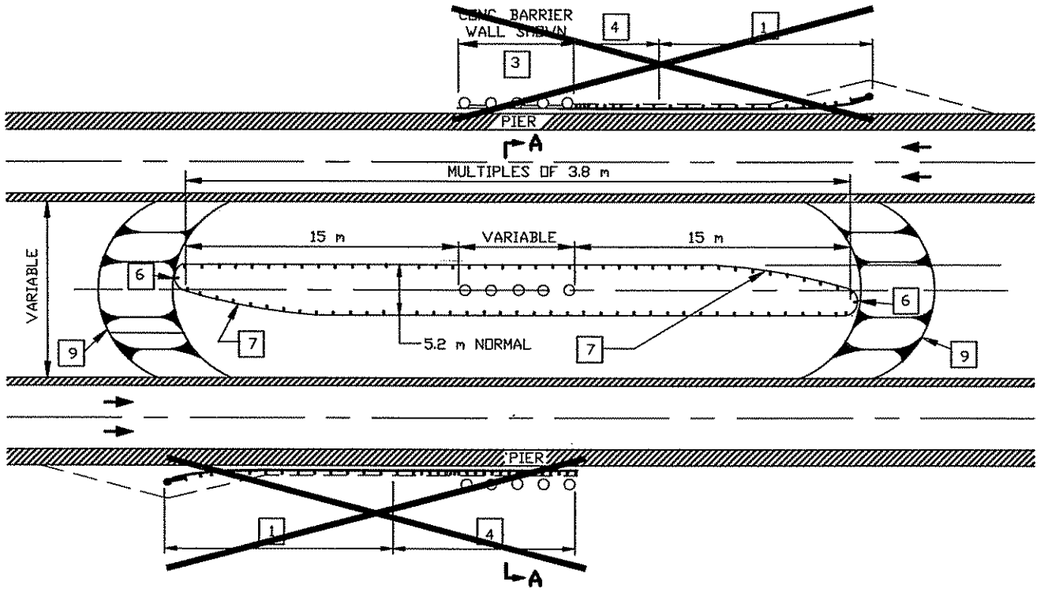
STATE PROJ NO. 0212-40

SHEET NO 46 OF 539 SHEETS

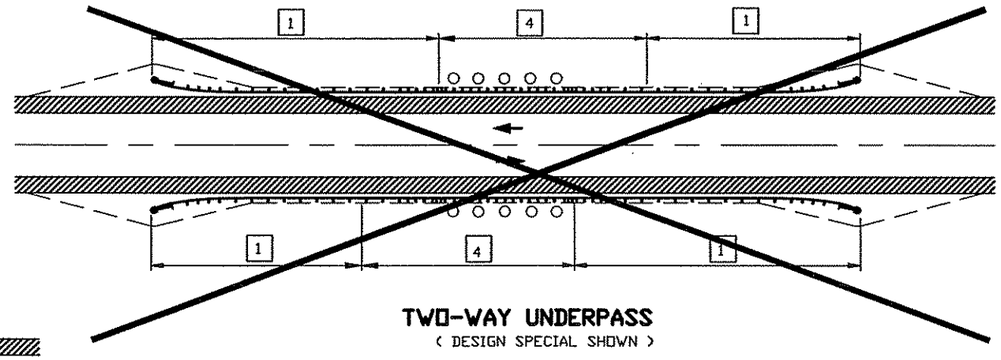
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FILE NAME: SM4052E95.DGN RING\sm4052e95.dwg



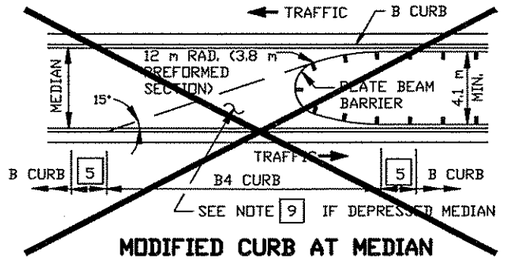
SECTION A-A [9]



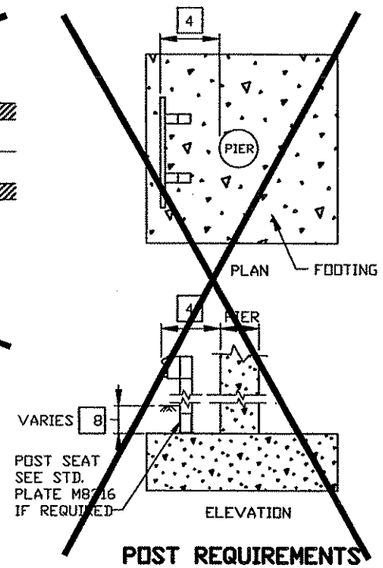
UNDERPASS-DEPRESSED MEDIAN
(DESIGN SPECIAL SHOWN)



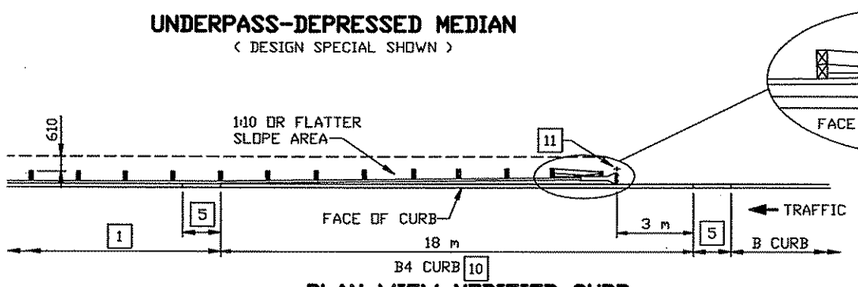
TWO-WAY UNDERPASS
(DESIGN SPECIAL SHOWN)



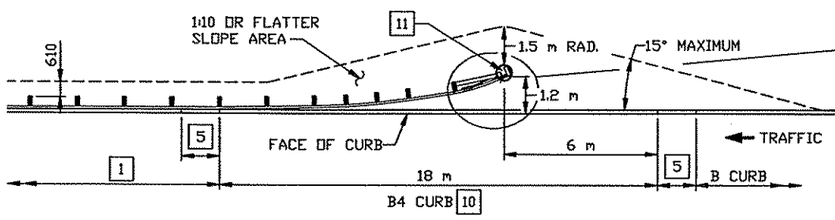
MODIFIED CURB AT MEDIAN
(OPTIONAL GUARDRAIL PLACEMENT SHOWN)



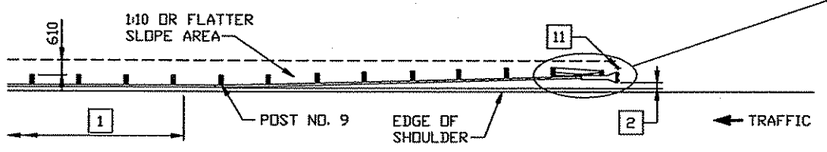
POST REQUIREMENTS



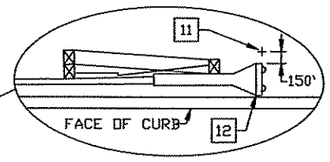
PLAN VIEW MODIFIED CURB

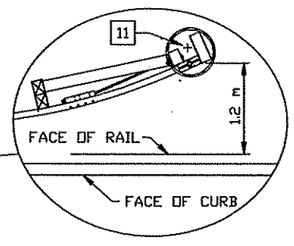


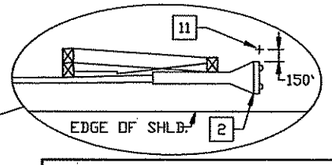
PLAN VIEW MODIFIED CURB AND SLOPE



PLAN VIEW NO CURB







AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:

ALL GUARDRAIL POSTS SHALL BE 1.9 m CTR. TO CTR., EXCEPT WHERE NOTED.

THE LATEST APPROVED VERSION OF STANDARD PLATES SHOWN OR AS INDICATED IN THE PLANS SHALL APPLY.

WHEN THE APPROACHING PLATE BEAM FLARE CAN BE BURIED IN THE BACKSLOPE ELIMINATE THE END TREATMENT AND ADD REQUIRED RAIL LENGTH TO REACH BACKSLOPE.

[1] FOR REQUIRED L LENGTH SEE DESIGN MANUAL 10-7.03 FOR DESIGN PARAMETERS SEE STD. PLATE M8329 FOR END TREATMENT SHOWN.

[2] SET EDGE OF EXTRUDER BOX 230 mm FROM FACE OF RAIL EXTENDED FROM POST NO. 9.

[X] CONCRETE BARRIER WALL BETWEEN PIER COLUMNS MAY BE USED . SEE SHEET NO. __ OF __ FOR WALL DETAILS. CONNECT GUARDRAIL TO BARRIER WALL ANCHORAGE PLATE SEE SHEET NO. __ OF __ FOR DETAILS.

[X]

DISTANCE FROM FACE OF RAIL TO HAZARD	GUARDRAIL POST SPACING
OVER 1.2 m	1.9 m
1.2 m TO 600 mm	950 mm
LESS THAN 600 mm	DESIGN SPECIAL B & [3]

[5] 1.5 m CURB TRANSITION, USE IF ADJACENT CURB IS A DIFFERENT TYPE OR HEIGHT,

[6] 1.5 m RADIUS NOSE SECTION (3.8 m PREFORMED CURVED RAIL SECTION, SEE DETAIL, ON SHEET 2 OF 2).

[7] 7.6 m OF PREFORMED (12 m RADIUS) RAIL SECTIONS.

[X] IF EMBEDMENT IS GREATER THAN 915 mm OR IF EMBEDMENT IS 760 mm TO 915 mm AND ADJACENT POSTS ARE EMBEDDED 915 mm OR MORE, POST SEAT IS NOT REQUIRED.

[9] THE MEDIAN DITCH SHALL BE FILLED TO PROVIDE AN ELEVATION OF GUARDRAIL APPROXIMATELY (WITHIN 150 mm') THE SAME AS IF INSTALLED ON THE SHOULDER. EXTEND FILL TO GUARDRAIL NOSE AND TAPER TO MEDIAN DITCH ON 1:10 SLOPE.

[10] IF 150 mm+ HIGH CURB, MILL TO 75 mm HEIGHT. NEW: CONSTRUCT 100 mm HIGH CURB.

[11] SNOW PLOW MARKER (X4-5) WITH A 3 kg/m DELINEATOR POST 2.4 m LG. (SPEC. 3401) DRIVEN INTO GROUND. EXTEND 915 mm ABOVE TERMINAL.

[12] SET EDGE OF EXTRUDER BOX 230 mm FROM FACE OF CURB.

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

minnesota metric
REVISION DATE 9-10-98

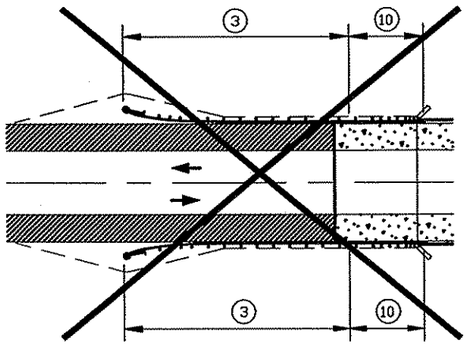
STANDARD SHEET NO. 5-297.601M (1 OF 2)
STANDARD APPROVED: OCTOBER 13, 1995

TITLE:
GUARDRAIL INSTALLATIONS AT MEDIANS AND END TREATMENTS

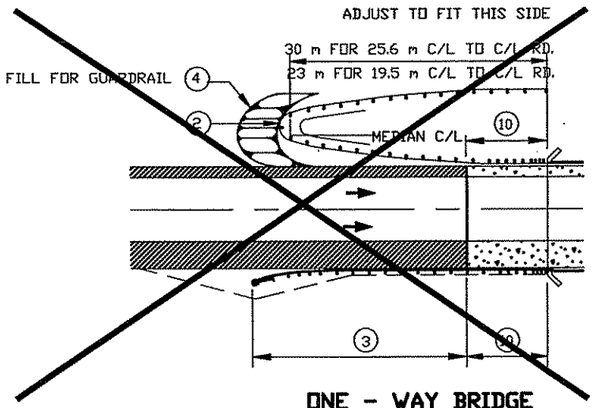
STATE PROJ NO. 0212-40

SHEET NO 47 OF 539 SHEETS

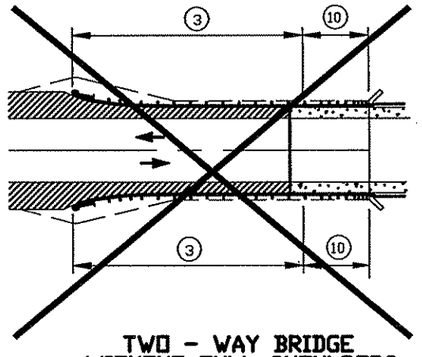
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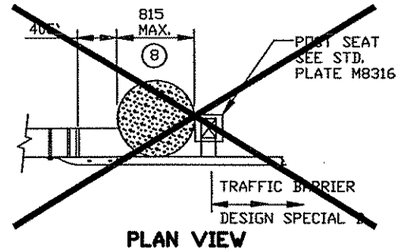
TWO - WAY BRIDGE
WITH FULL SHOULDERS



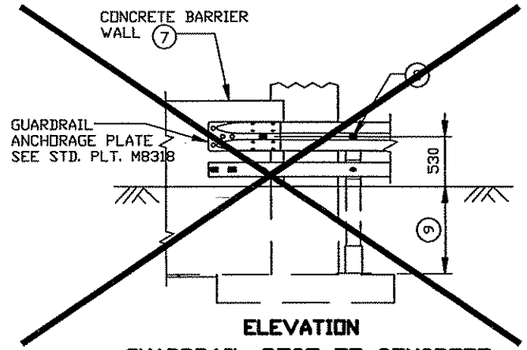
ONE - WAY BRIDGE
WITH FULL RIGHT SHOULDER



TWO - WAY BRIDGE
WITHOUT FULL SHOULDERS

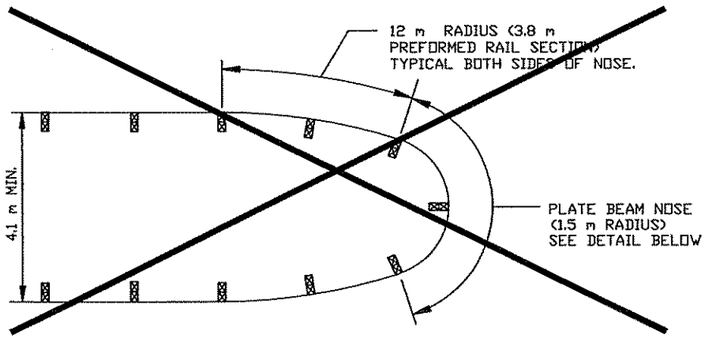


PLAN VIEW



ELEVATION

GUARDRAIL POST TO CONCRETE
BARRIER WALL CONNECTION 6



OPTIONAL GUARDRAIL INSTALLATION 1

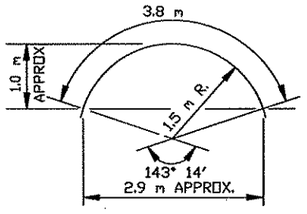
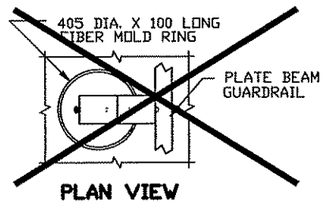
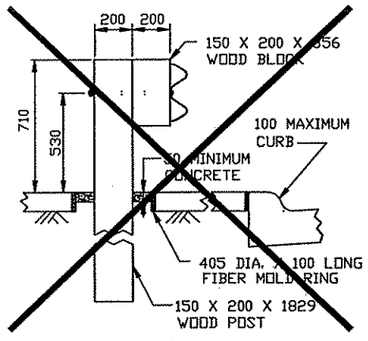


PLATE BEAM NOSE 5
(1.5 m RADIUS)



PLAN VIEW



ELEVATION

TYPICAL SECTION AT POST
SET IN CONCRETE

NOTES:

ALL GUARDRAIL POSTS SHALL BE 1.9 m CTR. TO CTR., EXCEPT WHERE NOTED.

WHEN THE APPROACHING PLATE BEAM FLARE CAN BE BURIED IN THE BACKSLOPE ELIMINATE THE END TREATMENT AND ADD REQUIRED RAIL LENGTH TO REACH BACKSLOPE.

THE LATEST APPROVED VERSION OF STANDARD PLATES SHOWN OR AS INDICATED IN THE PLANS SHALL APPLY.

- ☒ OPTIONAL GUARDRAIL AS DETERMINED BY THE DESIGNER AND SPECIFIED ON SHEET NO. ____ OF ____ .
- ☒ 1.5 m RADIUS NOSE SECTION (3.8 m PREFORMED CURVED RAIL SECTION, SEE DETAIL).
- ☒ FOR THE REQUIRED L LENGTH SEE ROAD DESIGN MANUAL 10-7.03 FOR DESIGN PARAMETERS. SEE STANDARD PLATE M8329 FOR END TREATMENT SHOWN.
- ☒ THE MEDIAN DITCH SHALL BE FILLED TO PROVIDE AN ELEVATION OF GUARDRAIL APPROXIMATELY (WITHIN 150 mm) THE SAME AS IF INSTALLED ON THE SHOULDER. EXTEND FILL TO GUARDRAIL NOSE AND TAPER TO MEDIAN DITCH ON 1:10 SLOPE.
- (5) STANDARD PLATE BEAM GUARDRAIL SECTION HAVING STANDARD PUNCHING AT BOTH ENDS WITH INTERMEDIATE 19 mm X 62 mm SLOT. SEE STANDARD PLATE M8307.
- ☒ NOTE (7), AND ALTERNATE GUARDRAIL AS DETERMINED BY THE DESIGNER AND SPECIFIED ON SHEET NO. ____ .
- ☒ CONCRETE BARRIER WALL BETWEEN BRIDGE PIER COLUMNS. SEE SHEET NO. ____ , FOR WALL DETAILS.
- ☒ FOR COLUMN DIAMETERS LARGER THAN 815 mm, FIELD PUNCH THE GUARDRAIL FOR THE FIRST POST AS SHOWN.
- ☒ IF EMBEDMENT IS GREATER THAN 915 mm OR IF EMBEDMENT IS 760 mm TO 915 mm AND ADJACENT POSTS ARE EMBEDDED 915 mm OR MORE, POST SEAT IS NOT REQUIRED.
- ☒ DESIGN SPECIAL OR DESIGN SPECIAL A.

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

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NOTE: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

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Kevin P Kiella
DATE: 11/5/99 MINN. REG. NO. 23211

minnesota metric

REVISION DATE 9-16-98

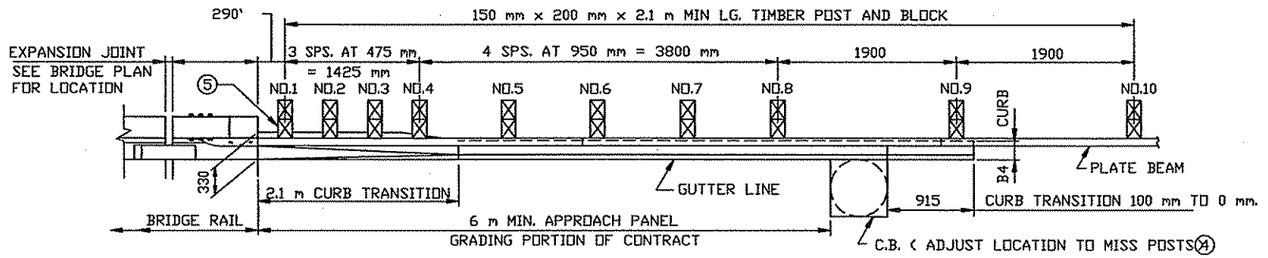
STANDARD SHEET NO. 5-297.601M (2 OF 2)
STANDARD APPROVED: OCTOBER 13, 1995

TITLE: GUARDRAIL INSTALLATIONS AT MEDIANS AND END TREATMENTS

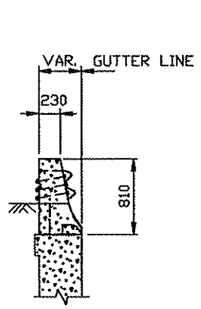
STATE PROJ NO. 0212-40

SHEET NO. 47A OF 539 SHEETS

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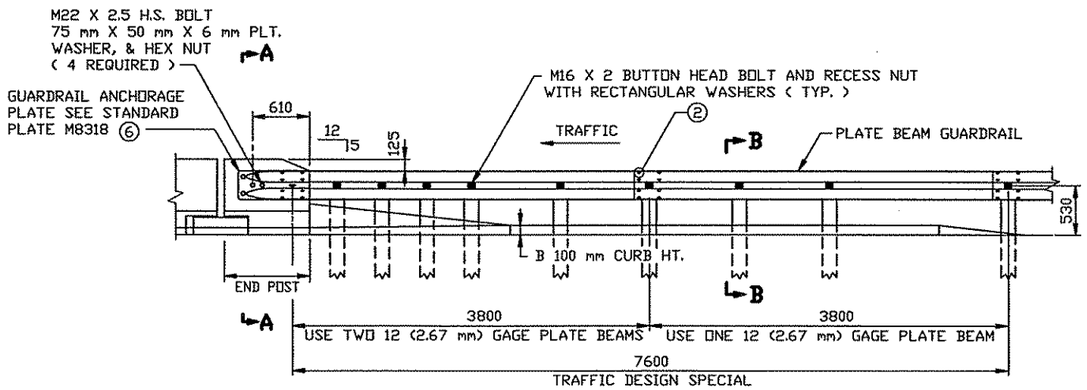


PLAN

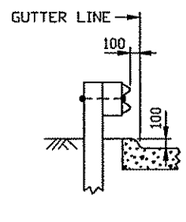


SECTION A-A

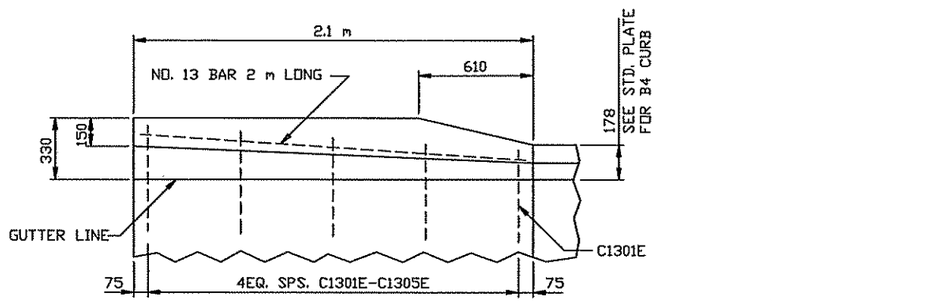
(PARALLEL WINGWALL SHOWN)



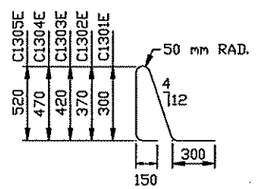
ELEVATION



SECTION B-B



CURB TRANSITION DETAILS



C1301E-C1305E③

NOTES:

① END OF TRANSITION TO MATCH BRIDGE RAIL SURFACE.
② M16 X 2 X 32 mm LG. BUTTON HEAD BOLTS AND NUTS TYPICAL AT SPLICES.
③ REINFORCEMENT TO BE EPOXY COATED AS PER SPEC. 3301.
④ SEE ROAD PLANS TO VERIFY ACTUAL DIMENSION AND LOCATION.
⑤ ADDITIONAL BLOCKING MAY BE REQUIRED TO CLEAR BRIDGE STRUCTURE. VERIFY IN FIELD.
⑥ SANDWICH ANCHOR PLATE BETWEEN RAIL BEAMS.

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

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TRAFFIC BARRIER DESIGN SPECIAL

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

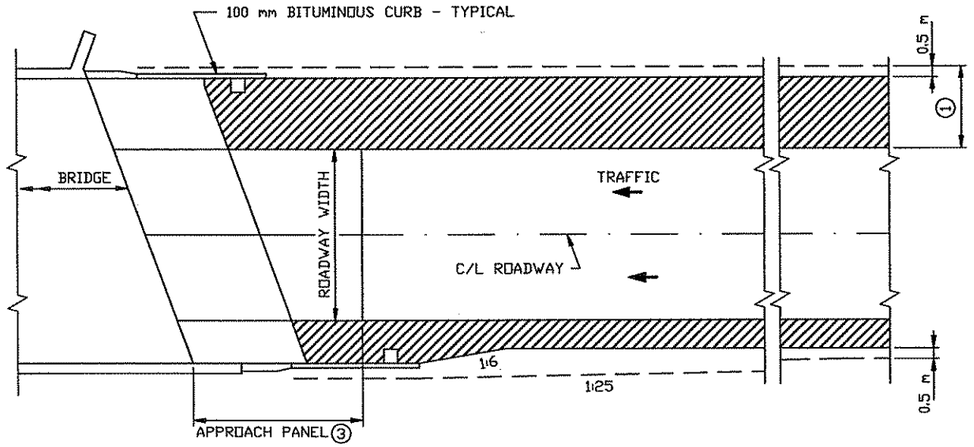
minnesota metric

STANDARD SHEET NO. 5-297.605M
STANDARD APPROVED: JANUARY 23, 1992
REVISION DATE 9-8-98

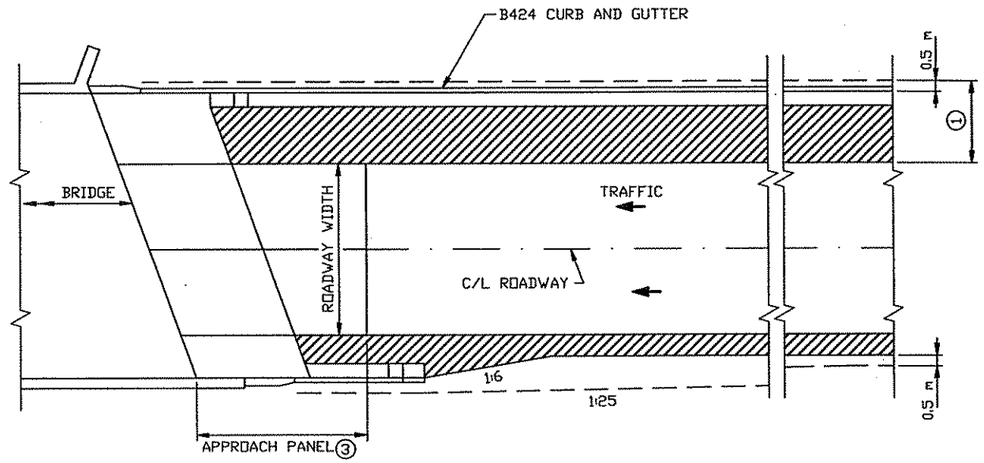
TITLE: GUARDRAIL TRANSITION FOR CONCRETE SAFETY SHAPED BARRIER WITH APPROACH CURB

STATE PROJ NO. 0212-40

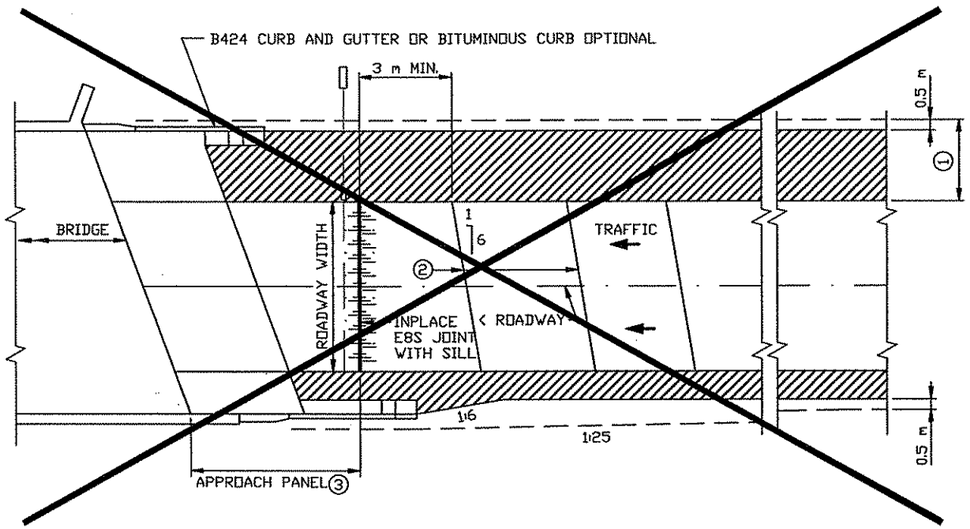
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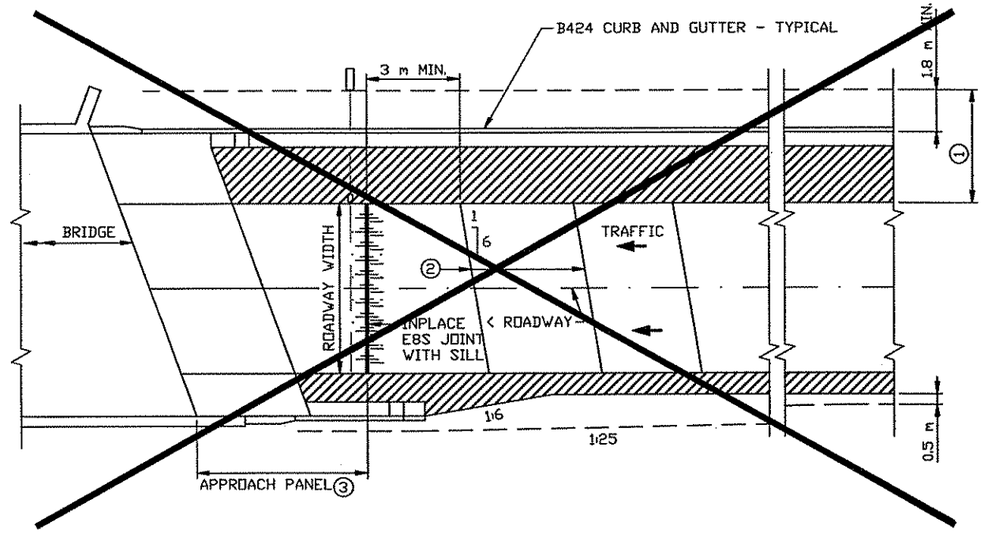
BITUMINOUS SURFACED MAINLINE (RURAL)



BITUMINOUS SURFACED MAINLINE (URBAN)



CONCRETE SURFACED MAINLINE (RURAL)



CONCRETE SURFACED MAINLINE (URBAN)

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 127 - 02
S.A.P.	114 - 136 - 02

NOTES:

1. TWO-WAY ROADWAYS HAVE THIS SHOULDER DESIGN IN EACH DIRECTION.
2. ~~SEE STANDARD PLAN SHEET FOR JOINT INFORMATION.~~
3. MAY BE MODIFIED FOR SKEWS OVER 45°. CHECK BRIDGE APPROACH PANEL SHEET.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Gilb

DATE: 11/5/99 MINN. REG. NO. 23211

STANDARD SHEET NO. 5-297.222M

STANDARD APPROVED: MARCH 23, 1993

TITLE:

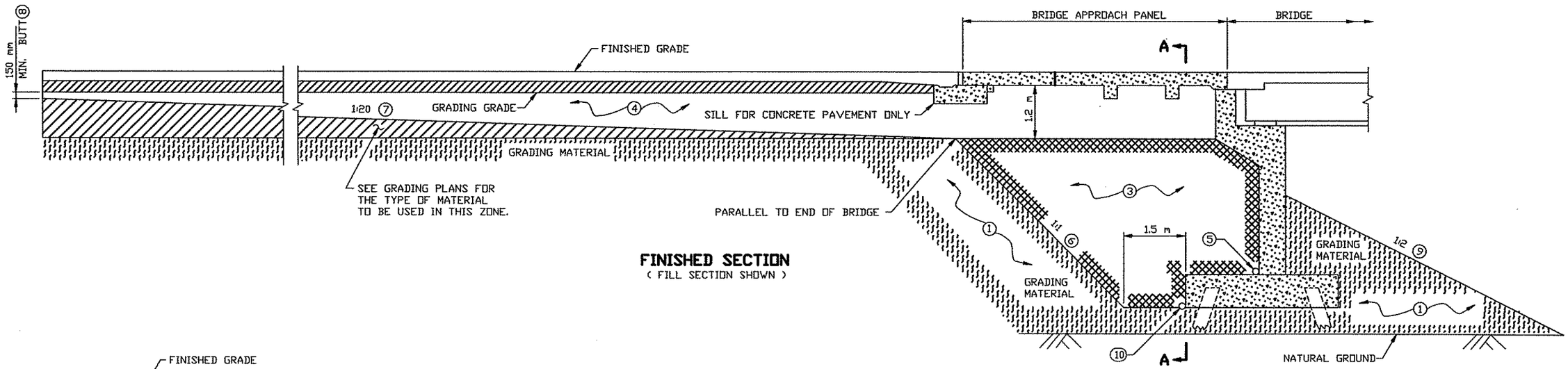
ADJACENT BRIDGE APPROACH AREA

(CONCRETE AND BITUMINOUS ROADWAYS)

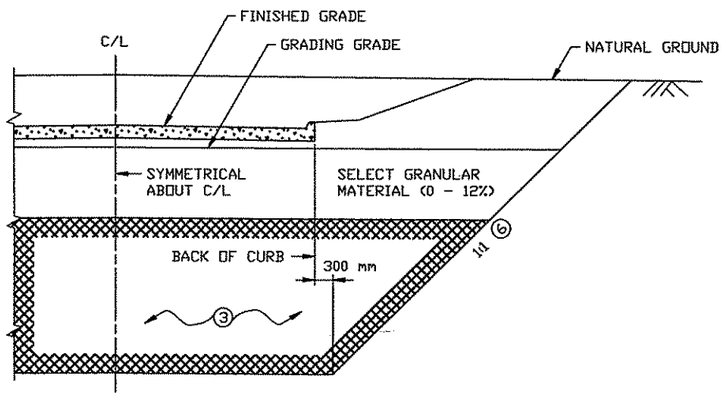
STATE PROJ. NO. 0212-40

SHEET NO. 49 OF 539 SHEETS

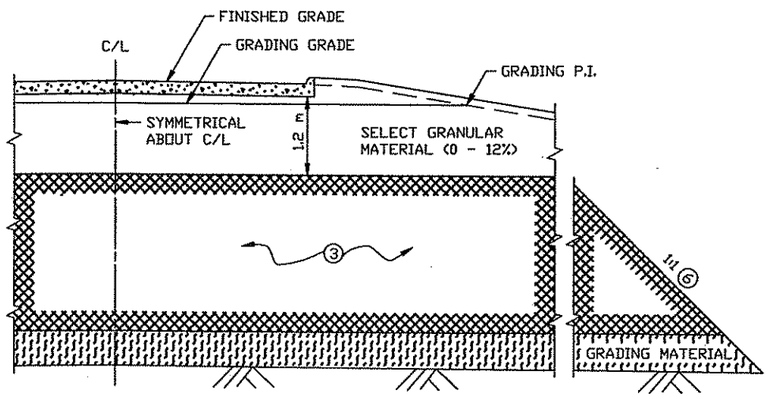
FILE NAME SM22C93.SPN



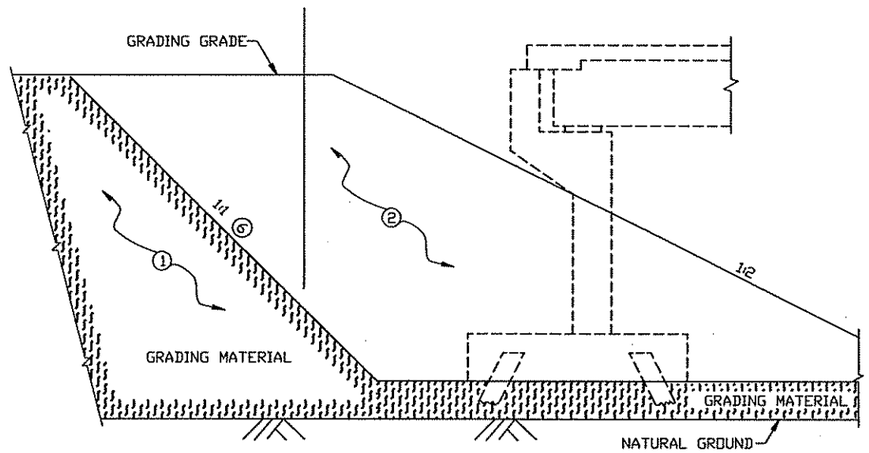
FINISHED SECTION
(FILL SECTION SHOWN)



HALF SECTION A-A
(CUT SECTION)



HALF SECTION A-A
(FILL SECTION)



GRADING SECTION AT ABUTMENT

S.P. 0212-40 (T.H.242=242)	
S.A.P.	**02 - 614 - 19**
S.A.P.	**02 - 618 - 24**
S.P.	**114 - 010 - 11**
S.A.P.	**114 - 020 - 19**
S.A.P.	**114 - 136 - 02**
S.A.P.	**114 - 127 - 02**

NOTES:
1. GRADING MATERIAL PLACED BY THE CONTRACTOR.
2. GRADING MATERIAL CONSTRUCTED BY THE CONTRACTOR PRIOR TO THE BRIDGE CONSTRUCTION. TO BE REMOVED LATER BY THE CONTRACTOR.
3. ~~SELECT GRANULAR MATERIAL MODIFIED SHALL COMPLY WITH SPEC. 3149.2B, MODIFIED TO 10% OR LESS PASSING THE NUMBER 75 µm SIEVE. MATERIAL SHALL BE PLACED BY THE CONTRACTOR AFTER COMPLETION OF THE ABUTMENT.~~
4. BACKFILL PLACED BY THE CONTRACTOR. MATERIAL SHALL COMPLY WITH SPEC. 3149.2B (SELECT GRANULAR BORROW).
5. DRAIN IF REQUIRED. SEE BRIDGE STANDARD DETAIL B910M.
6. ACTUAL SLOPE TO BE DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR, DEPENDING ON INSITU SOIL PROPERTIES AND/OR SAFETY FACTORS. (USE 1:1 FOR DESIGN)
7. START 1:20 TAPER AT END OF APPROACH PANELS ON SKEWED BRIDGES.
8. GRADING TO BE SQUARED OFF ON SKEWED APPROACHES.
9. SEE BRIDGE PLANS FOR SLOPE PAVING.
10. SUBSURFACE PIPE DRAIN WHEN REQUIRED AS DIRECTED BY THE DISTRICT SOILS ENGINEER. 100 mm NOM. DIA. PLASTIC PIPE PER SPEC. 3245 PLACED BY THE CONTRACTOR. PERFORATED PIPE TO BE WRAPPED WITH GEOTEXTILE MEETING THE REQUIREMENTS OF SPEC. 3733 TYPE 1. FOUNDATION SHALL BE SHAPED TO FIT LOWER ONE THIRD CIRCUMFERENCE OF PIPE.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

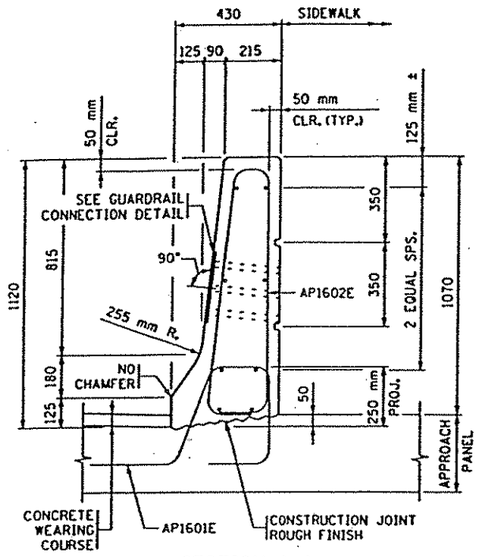
REVISION DATE 8-20-99

STANDARD SHEET NO. 5-297.233M
STANDARD APPROVED: AUGUST 4, 1992

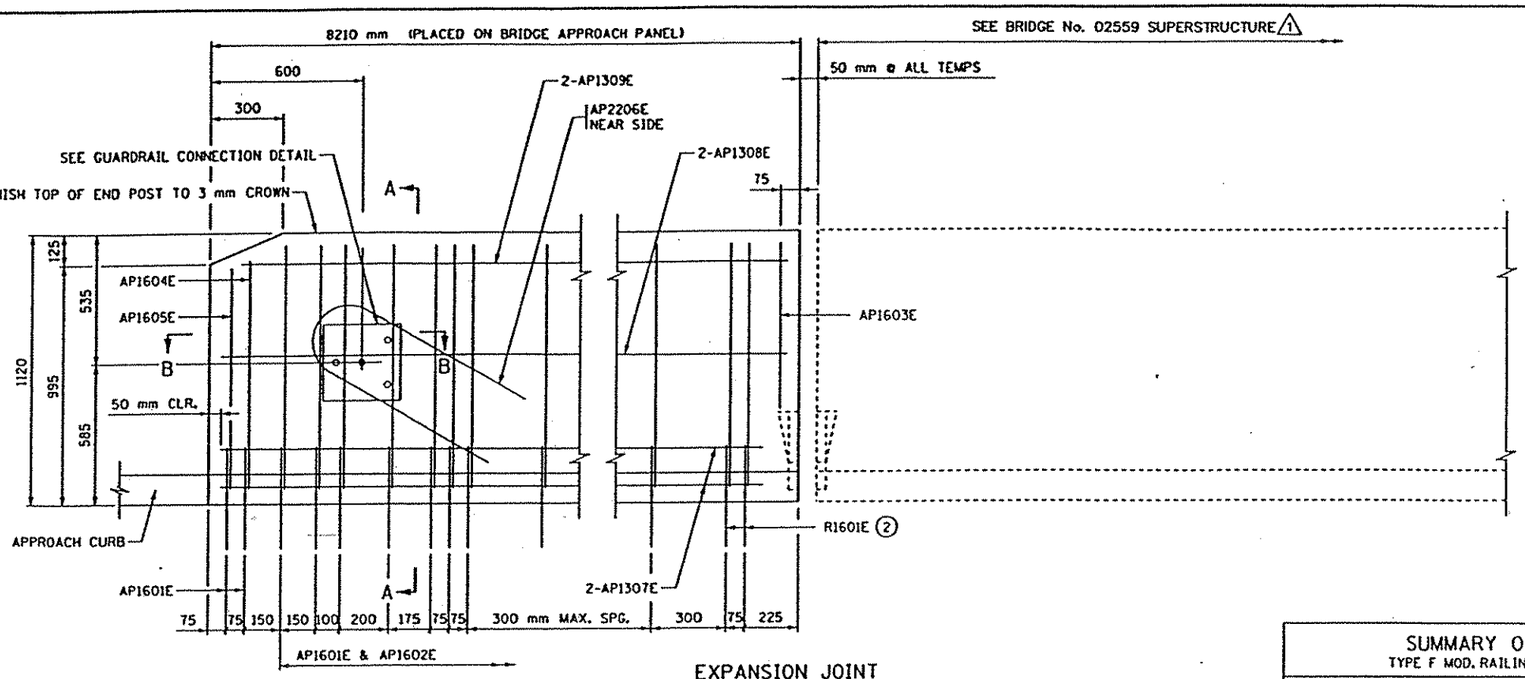
TITLE:
BRIDGE APPROACH TREATMENT
FOR BOTH HIGH AND LOW ABUTMENTS ON PILING

STATE PROJ. NO. 0212-40

FILE NAME SM233H92.SPN



SECTION A-A



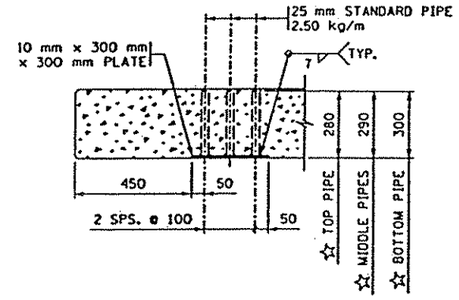
EXPANSION JOINT

(EXPANSION DEVICE NOT SHOWN) 1

INSIDE ELEVATION OF RAILING ON APPROACH PANEL

(CONCRETE WEARING COURSE NOT SHOWN)

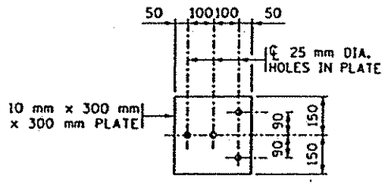
SUMMARY OF QUANTITIES TYPE F MOD. RAILING ON APPROACH PANEL		
ITEM	UNIT	QUANTITY
TYPE F MOD. RAILING CONCRETE (3Y46)	METER	32.8
REINFORCEMENT BARS (EPOXY COATED)	Kg	1135



SECTION B-B

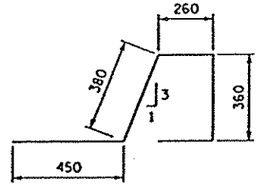
(REINFORCEMENT NOT SHOWN)

☆ DIMENSIONS INCLUDE 10 mm PLATE

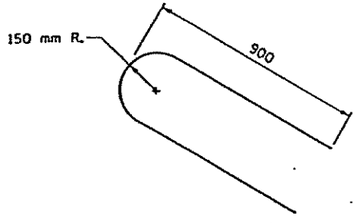


GUARDRAIL CONNECTION DETAIL

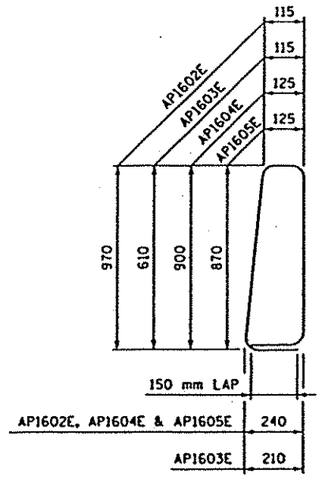
GALVANIZE AFTER FABRICATION PER Mn/DOT SPEC. 3394
ESTIMATED WEIGHT = 9.9 kg



AP1601E



AP2206E



AP1602E, AP1603E, AP1604E & AP1605E

BILL OF REINFORCEMENT FOR RAILING				
BAR	NO.	LENGTH	SHAPE	LOCATION
AP1601E	124	1650		RAIL DOWEL
AP1602E	132	2430		RAIL VERTICAL
AP1603E	4	1680		RAIL VERTICAL
AP1604E	4	2300		RAIL VERTICAL
AP1605E	4	2240		RAIL VERTICAL
AP2206E	4	1970		RAIL VERTICAL
AP1307E	16	8010		RAIL LONGITUDINAL
AP1308E	8	8110		RAIL LONGITUDINAL
AP1309E	8	8060		RAIL LONGITUDINAL

GENERAL NOTES

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.

LENGTH OF RAILING FOR PAYMENT SHALL BE MEASURED BETWEEN THE OUTSIDE FACES OF THE CONCRETE RAIL.

CONCRETE RAILING = 8.08 kN/m (0.343 m^3/m)

FINISH ALL EDGES OF RAIL WITH 13 mm VEE, EXCEPT WHERE OTHERWISE NOTED.

GUARDRAIL CONNECTION TO BE STRUCTURAL STEEL. Mn/DOT SPEC. 3306.

GUARDRAIL CONNECTION TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

1 SEE BRIDGE PLANS FOR WATERPROOF EXPANSION JOINT DEVICE DETAILS.

2 R1601E PLACED WITH BRIDGE SUPERSTRUCTURE.

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

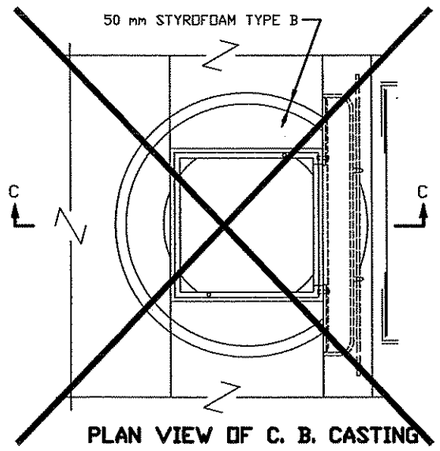
REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	2/11/00	ADDEND 1 ADDED TEXT "No. 02559"
2	TSR	2/27/04	AS-BUILT DRAWING

CERTIFIED BY: David D Tony PROFESSIONAL ENGINEER
REG. NO. 24384 10-29 1999

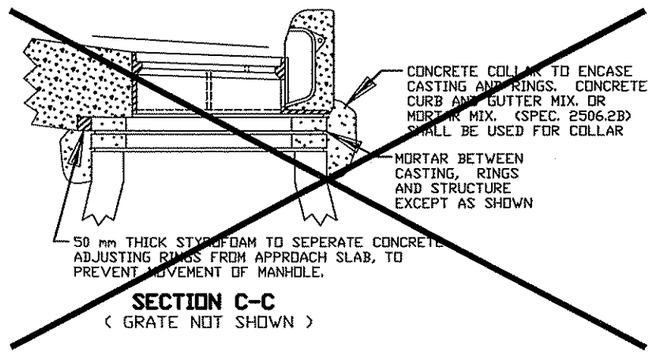
TITLE: CONCRETE RAILING (TYPE F) ON APPROACH PANEL

DES: DDL | DR: DDL | APPROVED:
CHK: CDR | CHK: CDR

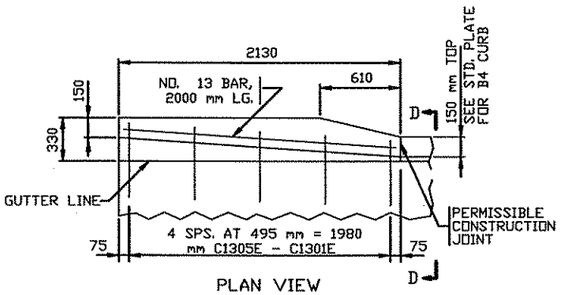
SHEET NO. 51 OF 539 SHEETS



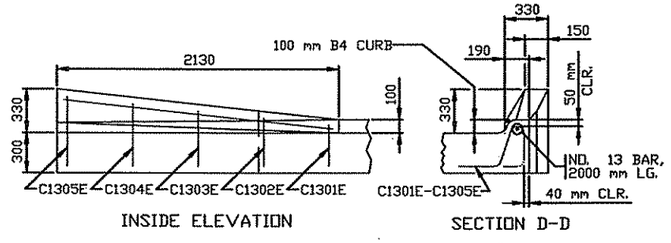
PLAN VIEW OF C. B. CASTING



SECTION C-C
(GRATE NOT SHOWN)

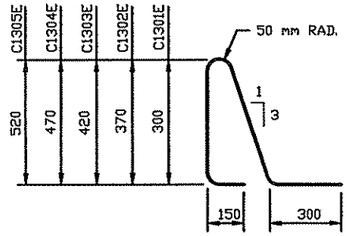


PLAN VIEW

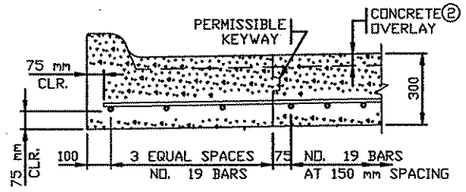


INSIDE ELEVATION SECTION D-D

CURB TRANSITION DETAILS ①

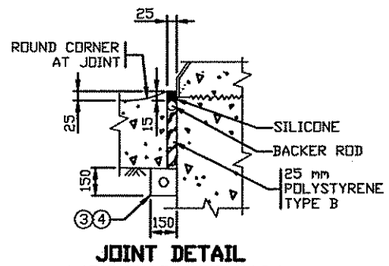


C1301E- C1305E



CURB DETAIL ①

(B4 INTEGRANT CURB OR B424 MODIFIED CURB AND GUTTER)



JOINT DETAIL

(AT PARALLEL WINGWALLS)

SUMMARY OF QUANTITES FOR BRIDGE APPROACH PANEL	
CONCRETE MIX NO. 3X42	m^3
REINFORCEMENT BARS	kg
CURB DESIGN B4 INTEGRANT	m
CURB DESIGN B424	m

NOTE TO DESIGNER:

USE THESE DETAILS WHEN THE MAINLINE ROAD IS BITUMINOUS. SEE SHEETS 49-52, 172A FOR REQUIRED ADDITIONAL DETAILS OF APPROACH PANEL.

NOTES:

① ALL REINFORCEMENT IN APPROACH PANEL AND CURB SHALL BE GRADE 420 AND EPOXY COATED AS PER SPEC. 3301.

② APPROACH SLAB THICKNESS SHOWN INCLUDES ANY CONCRETE OVERLAY THAT MAY BE REQUIRED. SEE BRIDGE PLANS FOR REQUIREMENTS. CONCRETE OVERLAYS TO BE ~~INCLUDED IN BRIDGE QUANTITIES AND~~ DONE AT THE SAME TIME BY BRIDGE CONTRACTOR.

③ 50 mm NOMINAL DIA. THERMOPLASTIC PIPE, AS PER ASTM D1785M, SCHEDULE 40. SLOPE PIPE TO DITCH. FURNISHING AND INSTALLING DRAIN SYSTEM SHALL BE INCIDENTAL, WITH NO DIRECT PAYMENT. WRAP PERFORATED PIPE WITH GEOTEXTILE AS PER SPEC. 3733. 3 mm PER 300 mm MINIMUM SLOPE.

④ BACKFILL WITH FINE AGGREGATE, SPEC. 3149, MODIFIED TO 0-3% PASSING A 75 µm SIEVE.

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kiell

DATE: 11/5/99 MINN. REG. NO. 23211

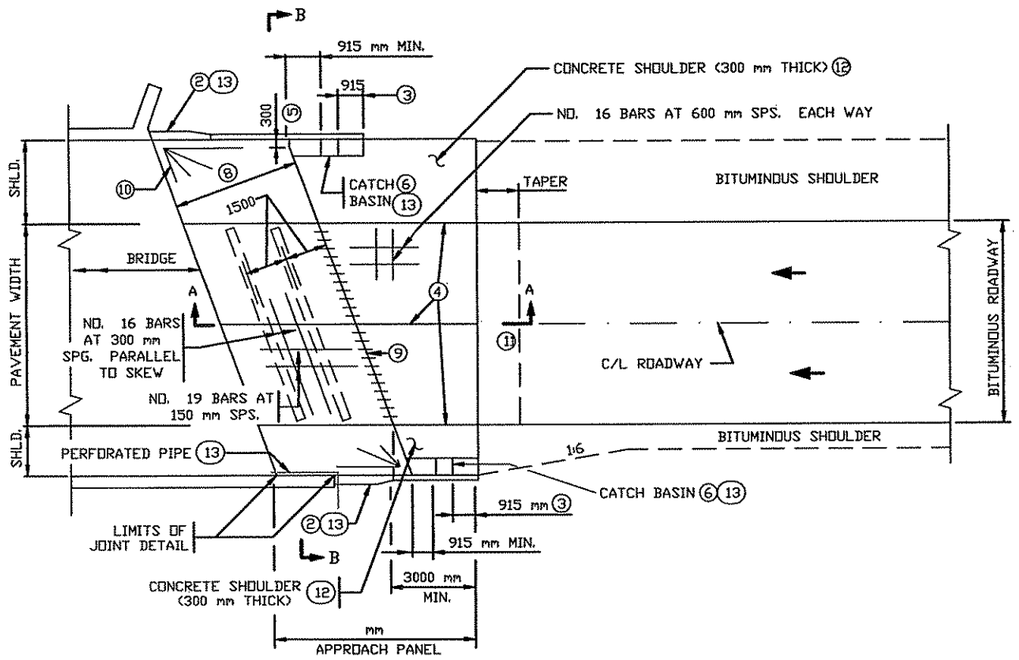
STANDARD SHEET NO. 5-297.224M

STANDARD APPROVED: NOVEMBER 9, 1999

TITLE: **BRIDGE APPROACH PANEL**
BITUMINOUS MAINLINE ROADWAY
(MISCELLANEOUS DETAILS)

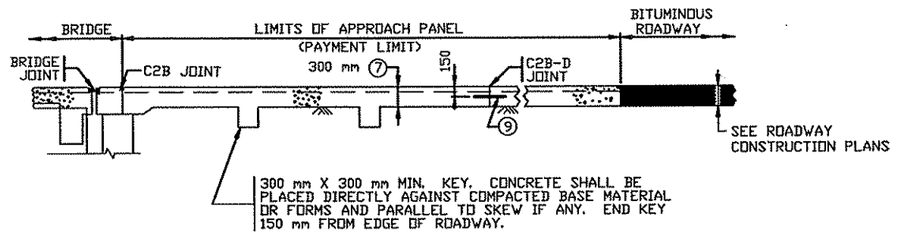
STATE PROJ NO. 0212-40 **SHEET NO. 52 OF 539 SHEETS**

PLOT DATE: Aug 19, J4 1:16pm DISK FILE NAME: (15.06) R:\33889\3388902B\33889W\PLAN_SH_...RING\Sm224k99.dwg
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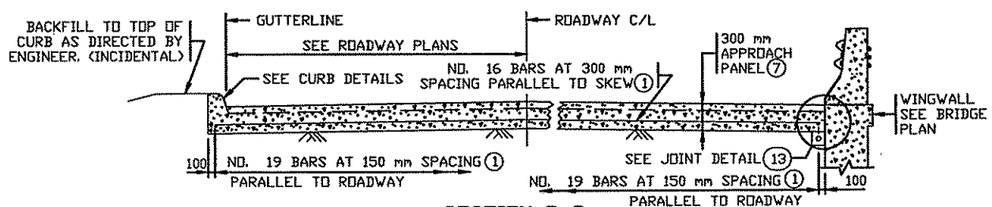
DIVIDED-URBAN ROADWAY PLAN

PARALLEL & NONPARALLEL WINGWALLS



SECTION A-A

(REINFORCEMENT NOT SHOWN)



SECTION B-B

(SEE ROADWAY PLAN VIEW)

NOTES:

1. ALL REINFORCEMENT IN APPROACH PANEL AND CURB SHALL BE GRADE 420 AND EPOXY COATED AS PER SPEC. 3301.
2. TRANSITION FACE OF 100 mm CURB INTO PROFILE OF BRIDGE RAILING. SEE CURB TRANSITION DETAILS.
3. TRANSITION APPROACH PANEL CURB HEIGHT 100 mm TO 0 mm WHERE THERE IS NO ROADWAY CURB.
4. L2KT OR L1T LONGITUDINAL JOINTS IS REQUIRED BEFORE AND AFTER CONCRETE OVERLAY IS APPLIED. SEE STANDARD PAVEMENT JOINT SHEET FOR DETAILS.
5. EDGE OF PANEL PERPENDICULAR TO GUTTER FOR SKEWS OVER 45° .
6. LOCATION MAY BE ON OR OFF THE APPROACH PANEL AS DETERMINED BY THE DESIGNER. SEE ROAD DESIGN MANUAL CHAPTER 7 FOR CATCH BASIN INFORMATION.
7. APPROACH SLAB THICKNESS SHOWN INCLUDES ANY CONCRETE OVERLAY THAT MAY BE REQUIRED. SEE BRIDGE PLANS FOR REQUIREMENTS. CONCRETE OVERLAYS TO BE ~~INCLUDED IN BRIDGE QUANTITIES AND~~ DONE AT THE SAME TIME BY BRIDGE CONTRACTOR.
8. 6100 mm TO 40° SKEWS, 4600 mm OVER 40° SKEWS.
9. CONTRACTION JOINT C2B-D WITH 38 mm DIA. X 450 mm LG. EPOXY COATED DOWEL BARS AT 305 mm SPACING PARALLEL TO C/L OF ROADWAY. CAGES NOT REQUIRED.
10. FAN 4 - NO. 16 BARS 2400 mm LONG AS SHOWN FOR SKEWS OVER 45° .
11. SEE PLAN SHEETS 138 & 153 FOR BRIDGE APPROACH ROADWAY INFORMATION.
12. CONCRETE SHOULDERS INCLUDED IN PAYMENT FOR APPROACH PANEL QUANTITY.
13. SEE SHEETS 49-52, 172A FOR REQUIRED MISCELLANEOUS DETAILS NOT SHOWN.

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

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NOTE: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

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Kevin P Kiefer

DATE: 11/5/99 MINN. REG. NO. 23211

minnesota metric

STANDARD SHEET NO. 5-297.230M

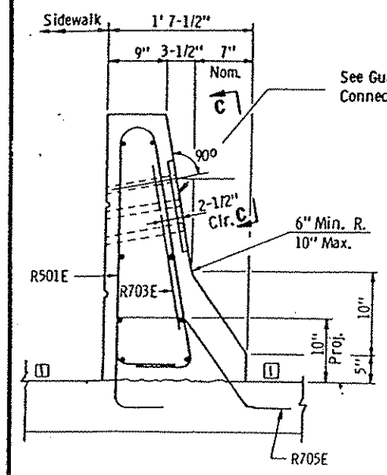
STANDARD APPROVED NOVEMBER 9, 1999

TITLE: **BRIDGE APPROACH PANEL**
BITUMINOUS MAINLINE - JOINT AT ABUTMENT
OVER 10° - 60° SKEWS

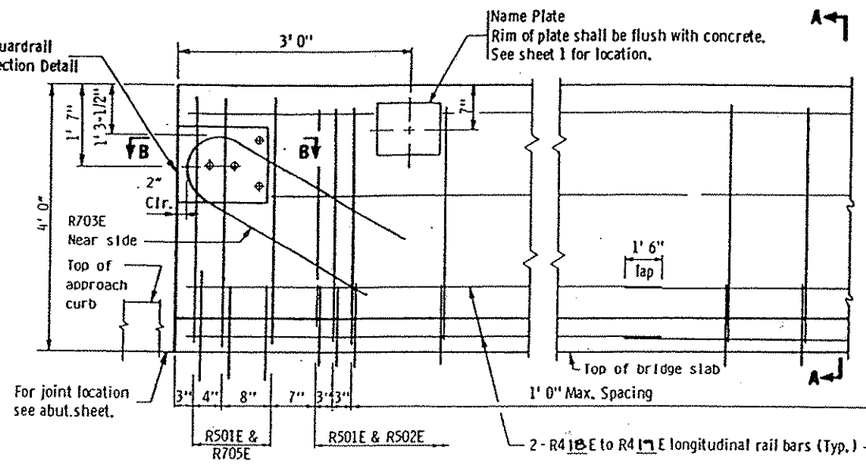
STATE PROJ NO. 0212-40

SHEET NO. 52A OF 539 SHEETS

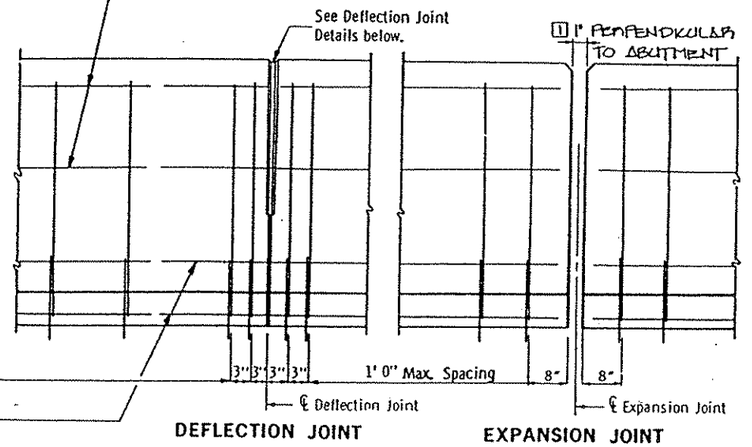
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END VIEW

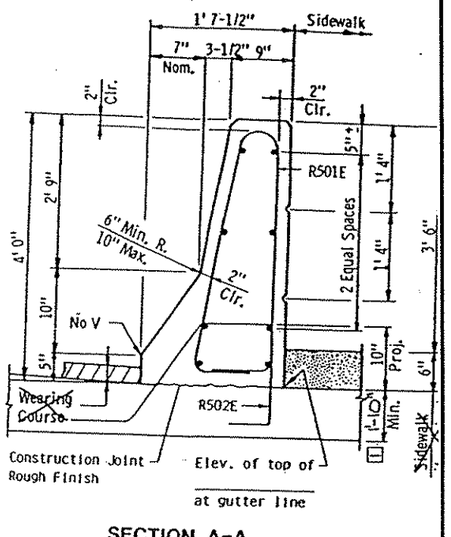


INSIDE ELEVATION OF RAILING
(WEARING COURSE NOT SHOWN)

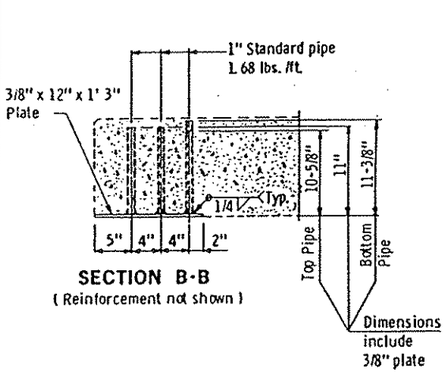


DEFLECTION JOINT

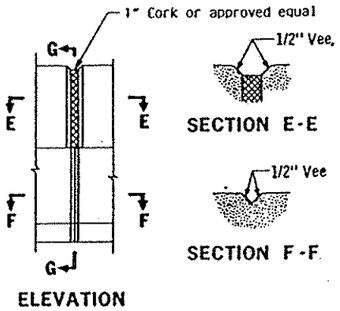
EXPANSION JOINT
(EXPANSION DEVICE NOT SHOWN)
Expansion joint required only if expansion device is used.
See superstructure sheets.



SECTION A-A



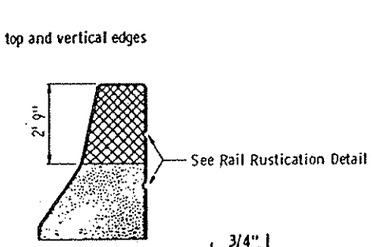
SECTION B-B
(Reinforcement not shown)



ELEVATION

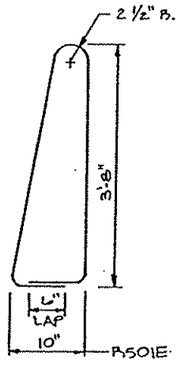
SECTION E-E

SECTION F-F

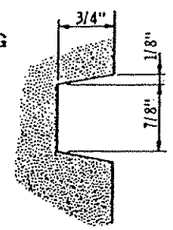


SECTION G-G

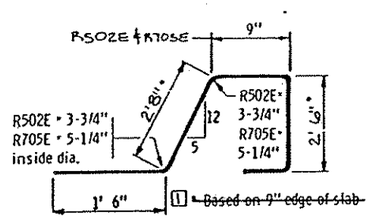
DEFLECTION JOINT DETAILS



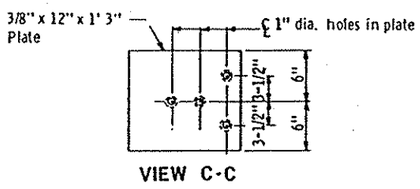
R501E



RAIL RUSTICATION

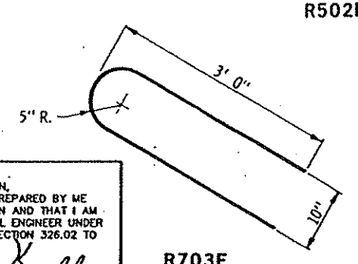


R502E & R705E



VIEW C-C

GUARDRAIL CONNECTION DETAIL
Galvanize after fabrication per Spec. 3394
Estimated Weight = 25 lbs.



R703E

BILL OF REINFORCEMENT FOR RAILING				
BAR	NO.	LENGTH	SHAPE	LOCATION
R501E	400	8'-11"	BENT	RAIL - VERTICAL
R502E	388	7'-1"	BENT	RAIL - VERTICAL
P705E	4	6'-6"	BENT	END POST
P705E	12	7'-11"	BENT	END POST
P406E	4	17'-3"	STR.	RAIL - LONGIT.
P406E	4	15'-8"	STR.	RAIL - LONGIT.
P416E	16	16'-8"	STR.	RAIL - LONGIT.
P416E	4	15'-10"	STR.	RAIL - LONGIT.
P416E	16	14'-8"	STR.	RAIL - LONGIT.
P416E	4	20'-6"	STR.	RAIL - LONGIT.
P416E	16	16'-8"	STR.	RAIL - LONGIT.
P416E	16	16'-2"	STR.	RAIL - LONGIT.
P416E	16	3'-0"	STR.	RAIL - LONGIT.
P416E	16	35'-5"	STR.	RAIL - LONGIT.

GENERAL NOTES:

Conc. Railing = 640 lbs./ft.
Conc. Railing = .158 cu. yds./ft.

Rail and end post to be Concrete Mix No. 3x46

Guardrail connection to be Structural Steel, Spec. 3306

Finish all edges of rail and end post with 1/2" vee except where otherwise noted.

See superstructure sheet for joint spacing.

Maximum spacing of concrete deflection joints shall be 20' 0"

Guardrail connection to be included in price bid for other items.

Rail quantities are included in summary of quantities for superstructure.

Length of railing concrete to be measured for payment between outside faces of railing.

Bars marked with the suffix "E" shall be epoxy coated in accordance with Spec. 3301

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	2/11/00	ADDEND 1 ADDED PLAN SHEET
2	TSR	2/27/04	AS-BUILT DRAWING

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Kevin P Kiefle

DATE: 11/5/99 MINN. REG. NO. 23211

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

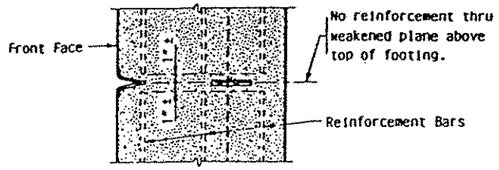
REVISED: 1 April 15, 1988 | APPROVED: Nov. 26, 1985 | FIG. 5-397.119

TITLE:
CONCRETE RAILING (TYPE J-SW)
WITH SIDEWALK AND INTEGRAL END POST

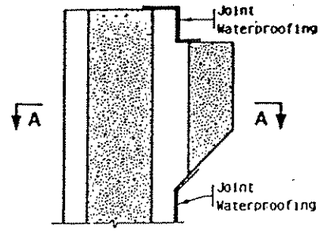
DES: MN/DOT | DR: MN/DOT | APPROVED:
CHK: B.J.J. | CHK: B.J.J.

Sheet No. 52B of 539 Sheets

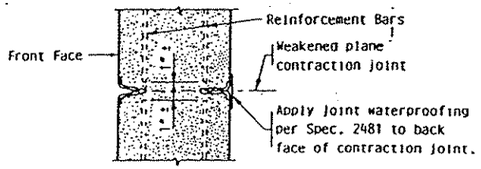
Bridge No. 02549



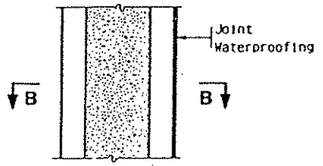
SECTION A-A



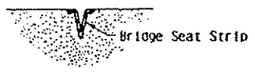
SECTION THRU PAVING BRACKET



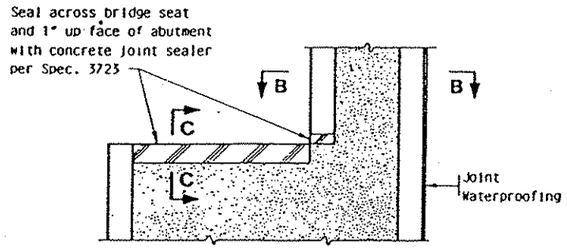
SECTION B-B



SECTION THRU WALL

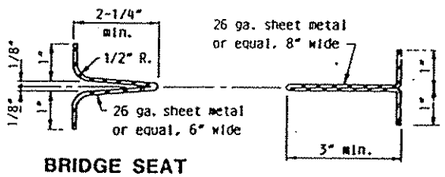


SECTION C-C



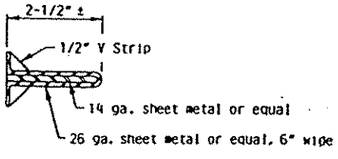
SECTION THRU BRIDGE SEAT

PART SECTION THRU ABUTMENT AT JOINT



BRIDGE SEAT and FRONT STRIP

BACK STRIP



ALTERNATE BRIDGE SEAT and FRONT STRIP

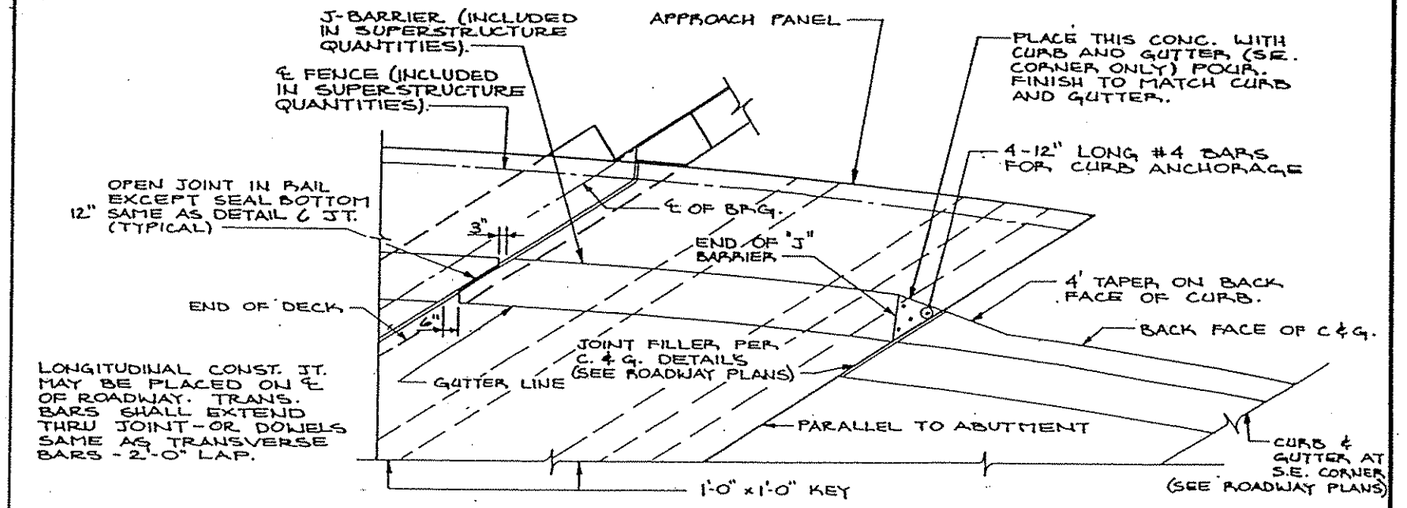
NOTES:

The methods and materials indicated on this sheet shall be considered as suggested only. Variations will be permitted, subject to approval by the Engineer, but must provide dummy joints of a depth not less than the depth shown, and a width at the front face of the abutment of not greater than 5/16". The separation of the horizontal reinforcement bars shall be not less than 1-1/2" nor more than 3", centered as shown, regardless of the procedure used for forming the dummy joint.

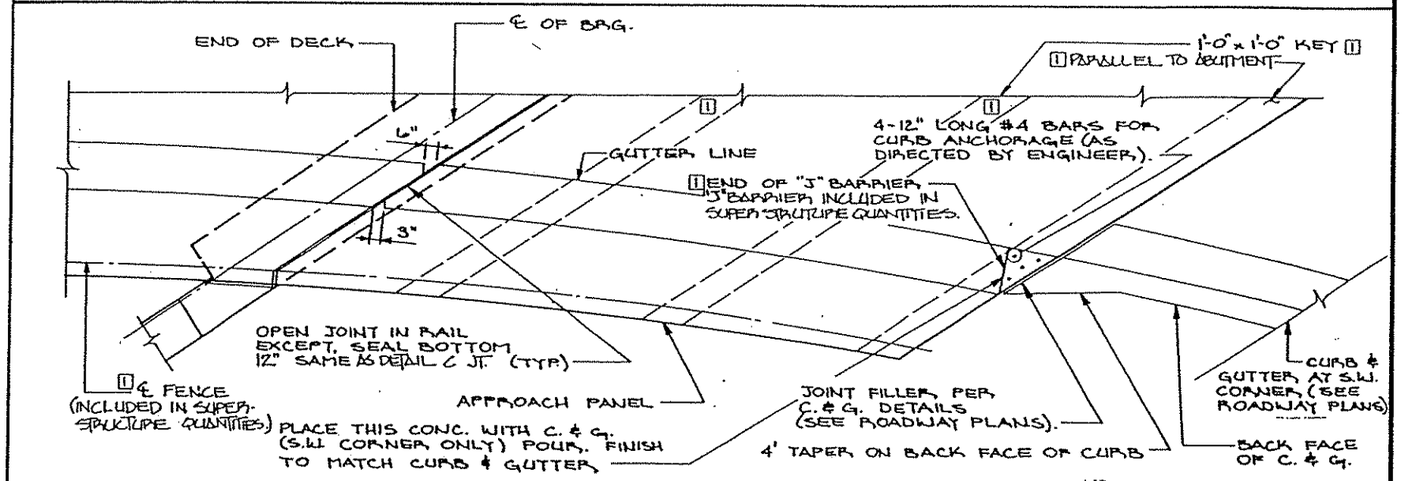
If the front and bridge seat strips are galvanized metal, they shall be securely fastened to the forms so that they will be removed with the forms. If a suitable plastic or other durable material, satisfactory to the Engineer, is used, the material may be left in place.

The back strip may be galvanized metal, a suitable plastic, or other durable material satisfactory to the Engineer. The back strip shall remain in place after the forms are removed.

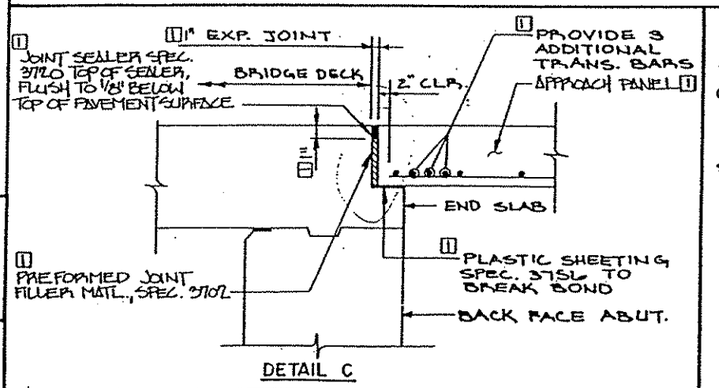
The cost of forming the joint shall be included in the price bid for other items.



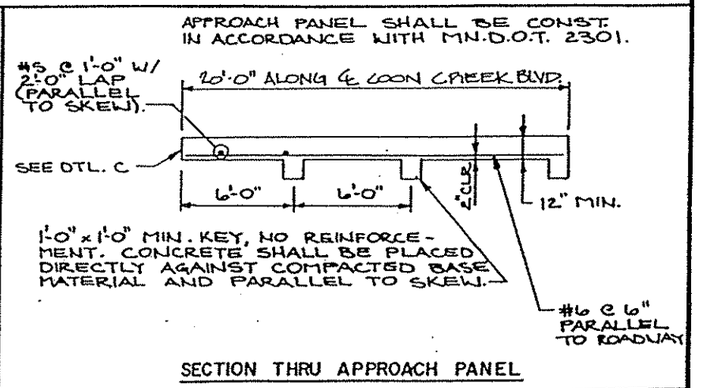
NW CORNER DETAIL
SE CORNER SIMILAR



NE CORNER DETAIL
SW CORNER SIMILAR



DETAIL C



SECTION THRU APPROACH PANEL

CONCRETE APPROACH PANEL

APPROVED February 20, 1987

Developed by: ENGINEERING STANDARDS and BRIDGES & STRUCTURES

Issued by: ENGINEERING STANDARDS

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

CONTRACTION JOINT

REVISION

DETAIL NO. B801

	BY	DATE	REVISIONS DESCRIPTION
1	JJL	2/11/00	ADDEND 1 ADDED PLAN SHEET
2	TSR	2/27/04	AS-BUILT DRAWING

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kuelbs

DATE: 11/5/99 MINN. REG. NO. 23211

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

[1] REVISIONS APRIL 15, 1988

TITLE: DETAILS

DES: MN/DOT	DR: MN/DOT	APPROVED:
CHK: B.J.J.	CHK: B.J.J.	

Sheet No. 52C of 539 Sheets

Bridge No. 02549

SPECIAL SIGNS

24" OVERLAY

MINNESOTA 242 MAIN ST. CLOSED
Coon Creek Blvd
TO
T.H. 10/47
FOLLOW DETOUR

8" 8" 10.7"–8" 8" 10.7"–8" 8"

1

132" x 108"

53–56

24" OVERLAY

MINNESOTA 242 COUNTY 14 MAIN ST
RAMP CLOSED
USE
Round Lake Blvd
BEGINS XX

8" 10.7" 8" 10.7"–8" 8"

7

△1 132" x 108"

24" OVERLAY

MINNESOTA 242 MAIN ST. CLOSED
AT
COUNTY 18 Coon Creek Blvd
BEGINS FEB. XX

8" 8" 8" 10.7"–8" 10.7"–8" 8"

2

132" x 108"

RAMP
CLOSED
BEGINNING
DATE

8" 8" 8" 8"

8

△1 72" x 60"

24" OVERLAY

MINNESOTA 242 MAIN ST. CLOSED
USE
Round Lake Blvd
WEST STATE 14 OPEN
BEGINS FEB XX

8" 8" 8" 10.7"–8" 8" 8"

18" OVERLAY

3

132" x 108"

24" OVERLAY

MINNESOTA 242 COUNTY 14 MAIN ST. CLOSED
USE
Hanson Blvd
BEGINS FEB. XX

8" 8" 8" 10.7"–8" 10.7"–8" 8"

4

132" x 108"

24" OVERLAY

8"

MINNESOTA 242 MAIN ST CLOSED
AT 10 MINNESOTA 47
EASTBOUND RAMP OPEN
BEGINS FEB XX

8" 8" 18" OVERLAY 8" 8" 8"

5

132" x 108"

ROAD
CLOSED
BEGINNING
DATE

8" 8" 8" 8"

6

72" x 60"

INDEX

SHEET NO.	DESCRIPTION
1	TITLE, NOTES, AND SPECIAL SIGNS
2	SUGGESTED ADVANCED SIGNING/DETOUR PLAN
3–5	TRAFFIC CONTROL TABULATION
6–18	TRAFFIC CONTROL/STAGING PHASE 1, STAGE 1
19–32	TRAFFIC CONTROL/STAGING PHASE 2, STAGE 1
33–51	TRAFFIC CONTROL/STAGING PHASE 3, STAGE 1
52	TRAFFIC CONTROL/STAGING PHASE 3, STAGE 2
53–56	TRAFFIC CONTROL/STAGING PHASE 4, STAGE 1
57–60	TRAFFIC CONTROL/STAGING PHASE 4, STAGE 2

TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

SYMBOL	DESCRIPTION
●	TRAFFIC CONTROL SIGN
■	CHANNELIZER SYMBOL =
⊥⊥	TYPE III BARRICADE =
●	DRUM–LIKE CHANNELIZER =
(F)	TYPE A OR B FLASHING WARNING LIGHT (SPECIFY HIGH INTENSITY)
(S)	TYPE C STEADY BURN WARNING LIGHT
(R)	RED FLASHING LIGHT
	FLASHING ARROW BOARD TYPE C (4' X 8' UNLESS OTHERWISE NOTED).
	AREA CLOSED TO TRAFFIC / WORK AREA
	PORTABLE CHANGEABLE MESSAGE SIGN
	SOLID LINE PAVEMENT MARKING WITH TRPMS (TEMPORARY RAISED PAVEMENT MARKERS) AT 10' SPACES
	PORTABLE BARRIER WITH BARRIER DELINEATORS AT 50' SPACES
△	TYPE I OR II BARRICADE =
	INPACT ATTENUATOR BARRELS – SPEED DESIGN

NOTES & GUIDELINES

GENERAL INFORMATION:

1. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN THE DEVICES IN THIS TRAFFIC CONTROL PLAN UNLESS OTHERWISE NOTED.
2. FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF THIS LAYOUT AS DEEMED NECESSARY BY THE ENGINEER.
3. ALL DISTANCES ARE APPROXIMATE.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH THE MNMUTCD.
5. AN ANNUAL FALL REVIEW OF ALL TRAFFIC CONTROLS WILL BE MADE TO PREPARE FOR WINTER MAINTENANCE OF THE PROJECT. THIS MAY INCLUDE ADJUSTMENTS OR EXCHANGE OF ONE TRAFFIC CONTROL DEVICE FOR ANOTHER. READJUSTMENTS MAY AGAIN BE REQUIRED IN THE SPRING.
6. IF THE CONTRACTOR DECIDES TO PERFORM THE CONSTRUCTION WORK IN A SEQUENCE OTHER THAN SHOWN IN THIS TRAFFIC CONTROL PLAN THE CONTRACTOR SHALL PROVIDE COMPLETE REVISED TRAFFIC CONTROL PLANS TO BE APPROVED BY THE ENGINEER.

SIGNING:

1. ALL TRAFFIC CONTROL DEVICES, INCLUDING OVERHEAD SIGNS ON ROADS OPEN TO TRAFFIC THAT ARE NOT CONSISTENT WITH TRAFFIC OPERATION SHALL BE COVERED, REMOVED OR REVISED AS DIRECTED BY THE ENGINEER.
2. WHEN SIGNS ARE INSTALLED, THEY SHALL BE MOUNTED ON POSTS DRIVEN INTO THE GROUND AT THE PROPER HEIGHT AND LATERAL OFFSET AS DETAILED IN THE MNMUTCD. IF THIS IS NOT POSSIBLE THEY WILL BE MOUNTED ON PORTABLE SUPPORTS AT 5–7', AS APPROVED BY THE ENGINEER. WHEN THE SIGNS ARE REMOVED THE SIGN POSTS SHALL ALSO BE REMOVED AS SOON AS POSSIBLE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA SIGNING NEEDED TO FACILITATE TRAFFIC SWITCHES OR FOR TRANSITIONING TRAFFIC FROM ONE STAGE TO ANOTHER.
4. ALL ORANGE SIGNS SHALL BE MADE OF DIAMOND GRADE ORANGE REFLECTIVE SHEETING OR AN APPROVED SUBSTITUTE.
5. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF THE TEMPORARY SIGNS TO ASSURE THAT THE FINAL SIGNS ARE INSTALLED AS NEEDED, OR PROVIDE TEMPORARY SIGNING UNTIL THE FINAL SIGNING IS INSTALLED.

PAVEMENT MARKING:

1. OBLITERATE ANY CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.
2. PAINT, POLYMER LANE TAPE AND/OR TRPM'S ARE ACCEPTABLE TEMPORARY STRIPING ALTERNATIVES ACCORDING TO ACTUAL CONDITIONS ENCOUNTERED AS DIRECTED BY THE ENGINEER. GENERALLY, ONLY PAINT WILL BE USED BEFORE MAY 1ST OR WHEN THE OTHER MANUFACTURERS' SPECIFICATIONS CAN NOT BE MET.
3. TRPM'S (TEMPORARY RAISED PAVEMENT MARKERS) SHOULD BE USED TO SUPPLEMENT THE LONG TERM (MORE THAN 7 DAYS) EDGELINES ON ALL TRANSITION AREAS WHEN THE CONDITIONS ARE WITHIN THE MANUFACTURERS' SPECIFICATIONS.

BARRIER & DELINEATION:

1. BARRIER DELINEATORS WILL HAVE A MINIMUM OF 24 SQ. IN. OF REFLECTIVE SURFACE AREA AND BE PLACED AT 50' SPACES ON TOP OF THE BARRIER WHEN THE BARRIER IS WITHIN 10' OF TRAFFIC UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE ENGINEER. IF A SMALLER APPROVED BARRIER DELINEATOR IS USED IT SHALL BE AT ONE HALF THE SPACING AND ONE HALF THE BID PRICE.

SPECIAL SIGNS:

1. ALL DIMENSIONS AND SIZES ARE SUBJECT TO FINAL VERIFICATION BEFORE FABRICATION BEGINS.
2. SIGN PANELS SHALL BE BLACK BORDER AND LETTERING ON REFLECTIVE ORANGE BACKGROUND.
3. UNLESS OTHERWISE NOTED, BORDER TO BE 1" AND RADIUS TO BE 3".
4. MEASUREMENT WILL BE MADE BY THE SQUARE METER OF SIGN PANELS FURNISHED AND INSTALLED, PAYMENT WILL BE MADE UNDER ITEM NO. 0564.604 CONSTRUCTION SIGNS – SPECIAL.

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

△1

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND △ ADD'L SIGNS 7 AND 8
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: 242SGDT1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

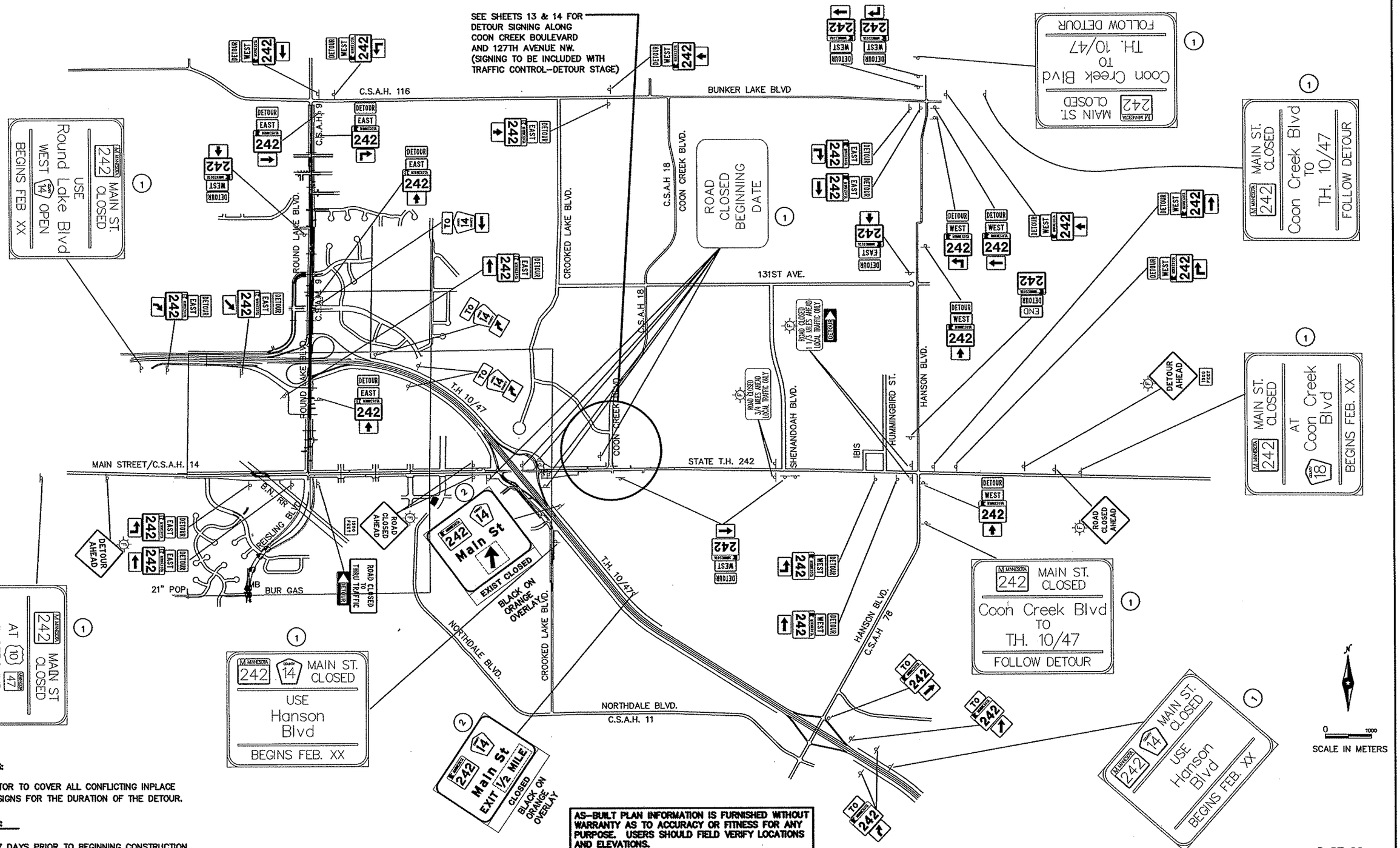
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TRAFFIC CONTROL
SPECIAL SIGN DETAILS

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 53 / 539

PLOT DATE: Aug 15, 04 12:04pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH_AF–CON\242sgdt1.dwg



GENERAL NOTES:

1. CONTRACTOR TO COVER ALL CONFLICTING INPLACE TRAFFIC SIGNS FOR THE DURATION OF THE DETOUR.

SPECIFIC NOTES:

(1) INSTALL 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: 242SGD01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)

TRAFFIC CONTROL LAYOUT
ADVANCED SIGNING / DETOUR PLAN
PHASE 1, STAGE 1

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 54 / 539

PLOT DATE: Aug 19, 04 12:05pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH1_AF–CON\242sgd01.dwg

TRAFFIC CONTROL

SIGN	SIGN NO.	SIZE AND COLOR	QUANTITY PER PHASE						
			PH 1 ST 1	PH 2 ST 1	PH 3 ST 1	PH 3 ST 2	PH 4 ST 1	PH 4 ST 2	PH 5 ST 1
10	M1-4A	18" x 18" BLACK ON WHITE	1	0	0	0	0	0	0
MINNESOTA 242	M1-5A	30" x 24" WHITE & GOLD ON BLUE	35	⚠1 11	0	0	0	0	0
MINNESOTA 242	M1-5B	30" x 24" WHITE & GOLD ON BLUE	8	0	0	0	0	0	0
MINNESOTA 47	M1-5B	18" x 18" WHITE & GOLD ON BLUE	1	0	0	0	0	0	0
ANOKA 18 COUNTY	M1-6A	24" x 24" YELLOW & WHITE ON BLUE	1	0	0	0	0	0	0
ANOKA 14 COUNTY	M1-6-A14	24" x 24" YELLOW & WHITE ON BLUE	4	0	0	0	0	0	0
ANOKA 14 COUNTY	M1-6A-A14	18" x 18" YELLOW & WHITE ON BLUE	1	0	0	0	0	0	0
ANOKA 14 COUNTY	M1-6A-A14	24" x 24" YELLOW & WHITE ON BLUE	2	0	0	0	0	0	0
EAST	M3-2	24"x 12" BLACK ON WHITE	13	0	0	0	0	0	0
WEST	M3-4	24"x 12" BLACK ON WHITE	17	0	0	0	0	0	0
TO	M4-5	24"x 12" BLACK ON WHITE	8	⚠1 11	0	0	0	0	0

TRAFFIC CONTROL (CONT.)

SIGN	SIGN NO.	SIZE AND COLOR	QUANTITY PER PHASE						
			PH 1 ST 1	PH 2 ST 1	PH 3 ST 1	PH 3 ST 2	PH 4 ST 1	PH 4 ST 2	PH 5 ST 1
BEGIN	M2-X1	24"x 12" BLACK ON WHITE	0	2	0	0	0	0	0
END	M4-6	24"x 12" BLACK ON WHITE	1	2	0	0	0	0	0
DETOUR	M4-8	24"x 12" BLACK ON ORANGE	31	0	0	0	0	0	0
DETOUR	M4-10R	48" x 18" BLACK ON ORANGE	1	0	0	0	0	0	0
DETOUR	M4-10L	48" x 18" BLACK ON ORANGE	1	0	0	0	0	0	0
	M5-1R	21"x 15" BLACK ON WHITE	4	0	0	0	0	0	0
	M5-1L	21"x 15" BLACK ON WHITE	4	⚠1 2	0	0	0	0	0
	M5-2R	21"x 15" BLACK ON WHITE	5	⚠1 2	0	0	0	0	0
	M6-2R	21"x 15" BLACK ON WHITE	3	⚠1 2	0	0	0	0	0
	M6-3	21"x 15" BLACK ON WHITE	9	⚠1 2	0	0	0	0	0
	M6-1R	21"x 15" BLACK ON WHITE	5	⚠1 1	0	0	3	0	0

TRAFFIC CONTROL (CONT.)

SIGN	SIGN NO.	SIZE AND COLOR	QUANTITY PER PHASE						
			PH 1 ST 1	PH 2 ST 1	PH 3 ST 1	PH 3 ST 2	PH 4 ST 1	PH 4 ST 2	PH 5 ST 1
	M6-1L	21"x 15" BLACK ON WHITE	8	⚠1 2	0	0	0	0	0
	R3-1	24"x 24" BLACK ON WHITE	0	0	1	0	0	0	0
	R3-2	24"x 24" BLACK ON WHITE	2	2	4	0	2	0	0
WRONG WAY	R5-1A	36"x 24" WHITE ON RED	0	1	2	0	0	0	0
DO NOT ENTER	R5-1	30"x 30" WHITE ON RED	0	2	4	0	0	0	0
RIGHT TURN LANE	R3-1	30"x 30" BLUE ON WHITE	0	0	2	0	1	0	0
YIELD	R1-2	36"x 36" RED ON WHITE	0	0	0	0	0	1	0
ALL TRAFFIC MUST TURN LEFT	R3-7L	30" x 30" BLACK ON WHITE	1	0	0	0	0	0	0
RIGHT LANE MUST TURN RIGHT	R3-7R	30" x 30" BLACK ON WHITE	2	0	0	0	0	0	0
ROAD CLOSED	R11-2	48" x 30" BLACK ON WHITE	2	1	5	1	3	0	2
ROAD CLOSED 1 1/3 MILES AHEAD LOCAL TRAFFIC ONLY	R11-3	60" x 30" BLACK ON WHITE	2	0	0	0	0	0	0

⚠1

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND ⚠1 ADDITIONAL SIGNS
2	JJL	6/13/01	MOD.REQ.#77: ADDED PHASE 5, STAGE 1
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: 242SGTB1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TRAFFIC CONTROL TABULATION
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 55 / 539

PLOT DATE: Aug 15, 04 12:06pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH_F-CON\242sgtb1.dwg

TRAFFIC CONTROL (CONT.)

SIGN	SIGN NO.	SIZE AND COLOR	QUANTITY PER PHASE						
			PH 1 ST 1	PH 2 ST 1	PH 3 ST 1	PH 3 ST 2	PH 4 ST 1	PH 4 ST 2	PH 5 ST 1
ROAD CLOSED 3/4 MILES AHEAD LOCAL TRAFFIC ONLY	R11–3	60" x 30" BLACK ON WHITE	2	0	0	0	0	0	0
ROAD CLOSED TO THRU TRAFFIC	R11–4	60" x 30" BLACK ON WHITE	0	0	0	0	7	0	0
STOP	R1–1	30" X 30" WHITE ON RED	1	0	0	0	0	0	0
1000 FEET	W20–7aP	24"x 18" BLACK ON ORANGE	2	0	0	0	0	0	0
1500 FEET	W20–7aP	24"x 18" BLACK ON ORANGE	3	0	0	0	0	0	0
10 M.P.H.	W13–1	18" x 18" BLACK ON ORANGE	3	0	0	0	0	0	0
ROAD WORK AHEAD	W21–4	48"x 48" BLACK ON ORANGE	18	10	25	3	16	5	0
DETOUR AHEAD	W20–2	48"x 48" BLACK ON ORANGE	2	0	0	0	0	0	0
ROAD CLOSED AHEAD	W20–3	48"x 48" BLACK ON ORANGE	9	0	1	0	1	0	0
NO SHOULDER	W21–X1	48"x 48" BLACK ON ORANGE	5	4	0	0	3	2	0
TRAFFIC CONTROL CHANGE AHEAD	SPECIAL	48"x 48" BLACK ON ORANGE	2*	0	0	0	0	0	0

TRAFFIC CONTROL (CONT.)

SIGN	SIGN NO.	SIZE AND COLOR	QUANTITY PER PHASE						
			PH 1 ST 1	PH 2 ST 1	PH 3 ST 1	PH 3 ST 2	PH 4 ST 1	PH 4 ST 2	PH 5 ST 1
RAMP CLOSED AHEAD	W20–X16	48"x 48" BLACK ON ORANGE	2	2	0	0	0	0	0
LANES NARROW	W20–X17	48"x 48" BLACK ON ORANGE	2	2	0	0	2	0	0
RIGHT LANE CLOSED	W21–X5R	48" x 48" BLACK ON ORANGE	3	0	3	0	0	0	1
TURN LANE CLOSED	SPECIAL	48" x 48" BLACK ON ORANGE	0	1	2	0	0	0	0
LEFT TWO LANES CLOSED	W20–X13L	48" x 48" BLACK ON ORANGE	0	0	0	0	1	0	0
MERGE	W20–X3L	30" x 30" BLACK ON ORANGE	1	0	0	0	2	0	1
	W6–3	30" x 30" BLACK ON YELLOW	3	6	5	1	0	0	0
	W4–2L	36" x 36" BLACK ON YELLOW	1	1	0	0	3	0	0
	W1–1L	30" x 30" BLACK ON YELLOW	2	0	0	0	0	0	0
	W1–1R	30" x 30" BLACK ON YELLOW	2	0	0	0	0	0	0
	W1–4R	30"x 30" BLACK ON YELLOW	0	0	2	0	0	0	0

TRAFFIC CONTROL (CONT.)

SIGN	SIGN NO.	SIZE AND COLOR	QUANTITY PER PHASE						
			PH 1 ST 1	PH 2 ST 1	PH 3 ST 1	PH 3 ST 2	PH 4 ST 1	PH 4 ST 2	PH 5 ST 1
	W1–3R	30"x 30" BLACK ON YELLOW	0	0	2	0	0	1	0
	W1–5R	30"x 30" BLACK ON YELLOW	0	0	0	0	1	0	0
	W1–7	48"x 24" BLACK ON YELLOW	0	0	2	0	0	0	0
	W1–6	48"x 24" BLACK ON YELLOW	3	0	3	0	0	0	4
	TYPE III BARRI–CADE	BLACK ON ORANGE	21	5	62	11	23	0	23
	PLASTIC DRUM		118	60	350	37	128	16	0
	TYPE A LOW INTENSITY WARNING LIGHT		54	27	85	15	51	6	3
WORK ZONE	R2–X6P	24" x 18" BLACK ON WHITE	0	2	2	0	3	0	0
SPEED LIMIT 40	R2–1–40	24"x 30" BLACK ON WHITE	0	2	2	0	3	0	0
20 M.P.H.	R1–2	24"x 24" BLACK ON WHITE	0	0	0	0	0	1	0
30 M.P.H.	W13–1–30	24"x 24" BLACK ON ORANGE	2	0	2	0	0	0	0

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	6/13/01	MOD.REQ.#77: ADDED PHASE 5, STAGE 1
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: 242SGTB2
DATE: NOVEMBER 5, 1999

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TRAFFIC CONTROL TABULATION
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 56 / 539

PLOT DATE: Aug 1 04 12:07pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SI AF–CON\242sgtb2.dwg

TRAFFIC CONTROL (CONT.)

SIGN	SIGN NO.	SIZE AND COLOR	QUANTITY PER PHASE						
			PH 1 ST 1	PH 2 ST 1	PH 3 ST 1	PH 3 ST 2	PH 4 ST 1	PH 4 ST 2	PH 5 ST 1
ONLY	R3-5R	30"x 36" BLACK ON WHITE	0	0	3	0	0	0	0
	R4-7	24" x 30" BLACK ON WHITE	1	0	8	2	1	0	2
ONLY ONLY	R3-8B	36" x 30" BLACK ON WHITE	0	0	0	0	2	0	0
ONLY	R3-8B	36" x 30" BLACK ON WHITE	0	5	5	0	0	0	0
ONLY	R3-8B	36" x 30" BLACK ON WHITE	0	1	1	0	0	0	0
ONLY ONLY	R3-8	30" x 30" BLACK ON WHITE	0	1	5	0	0	0	0
ONLY ONLY	R3-8F	30" x 30" BLACK ON WHITE	0	0	2	0	2	0	0
ONLY ONLY	R3-8E	36" x 30" BLACK ON WHITE	1	2	2	0	0	0	0
ONLY	R3-8R	36"x 30" BLACK ON WHITE	1	0	0	0	0	0	0
ONLY ONLY ONLY	R3-8H	54"x 30" BLACK ON WHITE	0	1	4	0	0	0	0
ONLY ONLY	R3-8	54"x 30" BLACK ON WHITE	0	0	2	0	0	0	0

TRAFFIC CONTROL (CONT.)

SIGN	SIGN NO.	SIZE AND COLOR	QUANTITY PER PHASE						
			PH 1 ST 1	PH 2 ST 1	PH 3 ST 1	PH 3 ST 2	PH 4 ST 1	PH 4 ST 2	PH 5 ST 1
CENTER LANE ONLY	R3-9B	24" x 36" BLACK ON WHITE	0	5	0	0	0	0	0
	X4-2	18" x 18" YELLOW ON YELLOW	1	1	8	2	1	0	0
END ROAD WORK	G20-2A	48"x 24" BLACK ON ORANGE	5	3	3	0	3	1	0
242 MAIN ST. CLOSED Coon Creek Blvd TO TH. 10/47 FOLLOW DETOUR	G20-X1 SPECIAL 1	132" x 108" BLACK ON ORANGE	3	0	0	0	0	0	0
242 MAIN ST. CLOSED AT 18 Coon Creek Blvd BEGINS FEB. XX	G20-X1 SPECIAL 2	132" x 108" BLACK ON ORANGE	1	0	0	0	0	0	0
242 MAIN ST. CLOSED USE Round Lake Blvd WEST 47 OPEN BEGINS FEB. XX	G20-X1 SPECIAL 3	132" x 108" BLACK ON ORANGE	1	0	0	0	0	0	0
242 14 MAIN ST. CLOSED USE Hanson Blvd BEGINS FEB. XX	G20-X1 SPECIAL 4	132" x 108" BLACK ON ORANGE	2	0	0	0	0	0	0
242 MAIN ST CLOSED AT 10 47 EASTBOUND RAMP OPEN BEGINS FEB. XX	G20-X1 SPECIAL 5	132" x 108" BLACK ON ORANGE	1	0	0	0	0	0	0
RAMP CLOSED BEGINNING DATE	G20-X1 SPECIAL 6	72" x 60" BLACK ON ORANGE	6	0	0	0	0	0	0
242 W MAIN ST RAMP CLOSED USE Round Lake Blvd BEGINS XX	G20-X1 SPECIAL 7	132" x 108" BLACK ON ORANGE	0	2	0	0	0	0	0
RAMP CLOSED BEGINNING DATE	G20-X1 SPECIAL 8	72" x 60" BLACK ON ORANGE	0	1	0	0	0	0	0

TRAFFIC CONTROL (CONT.)

SIGN	SIGN NO.	SIZE AND COLOR	QUANTITY PER PHASE						
			PH 1 ST 1	PH 2 ST 1	PH 3 ST 1	PH 3 ST 2	PH 4 ST 1	PH 4 ST 2	PH 5 ST 1
LANE ENDS MERGE LEFT	SPECIAL	72" x 38" BLACK ON YELLOW							1
RIGHT LANE ENDS	W9-1(R)	36" x 36" BLACK ON YELLOW							1
	W4-2(R)	36" x 36" BLACK ON YELLOW							1

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND 1 ADD'L SIGNS
2	JJL	6/13/01	MOD.REQ.#77: ADDED PHASE 5, STAGE 1, ADDED SIGNS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: 242SGTB3
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

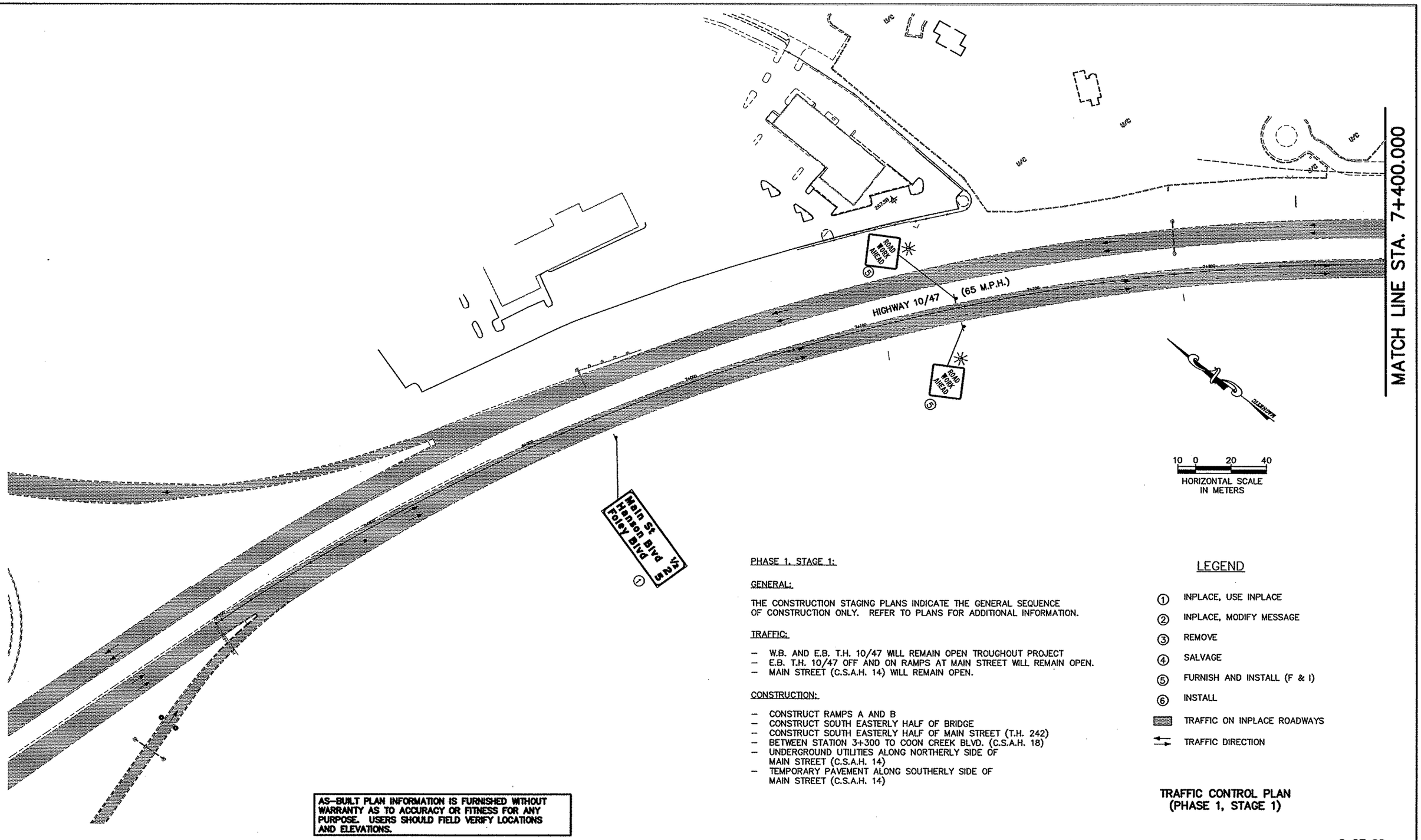
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TRAFFIC CONTROL TABULATION
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 57 / 539

PLOT DATE: Aug 19, ...04 12:07pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH:...AF-CON\242sgtb3.dwg

APBOX
42E-ALI
42E-PLN
42MHETO



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PHASE 1, STAGE 1:

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN TROUGHOUT PROJECT
- E.B. T.H. 10/47 OFF AND ON RAMPS AT MAIN STREET WILL REMAIN OPEN.
- MAIN STREET (C.S.A.H. 14) WILL REMAIN OPEN.

CONSTRUCTION:

- CONSTRUCT RAMPS A AND B
- CONSTRUCT SOUTH EASTERLY HALF OF BRIDGE
- CONSTRUCT SOUTH EASTERLY HALF OF MAIN STREET (T.H. 242)
- BETWEEN STATION 3+300 TO COON CREEK BLVD. (C.S.A.H. 18)
- UNDERGROUND UTILITIES ALONG NORTHERLY SIDE OF MAIN STREET (C.S.A.H. 14)
- TEMPORARY PAVEMENT ALONG SOUTHERLY SIDE OF MAIN STREET (C.S.A.H. 14)

LEGEND

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

TRAFFIC CONTROL PLAN
(PHASE 1, STAGE 1)

6 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S105X
DATE: NOVEMBER 5, 1999

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 6+700.000 TO STA. 7+400.000

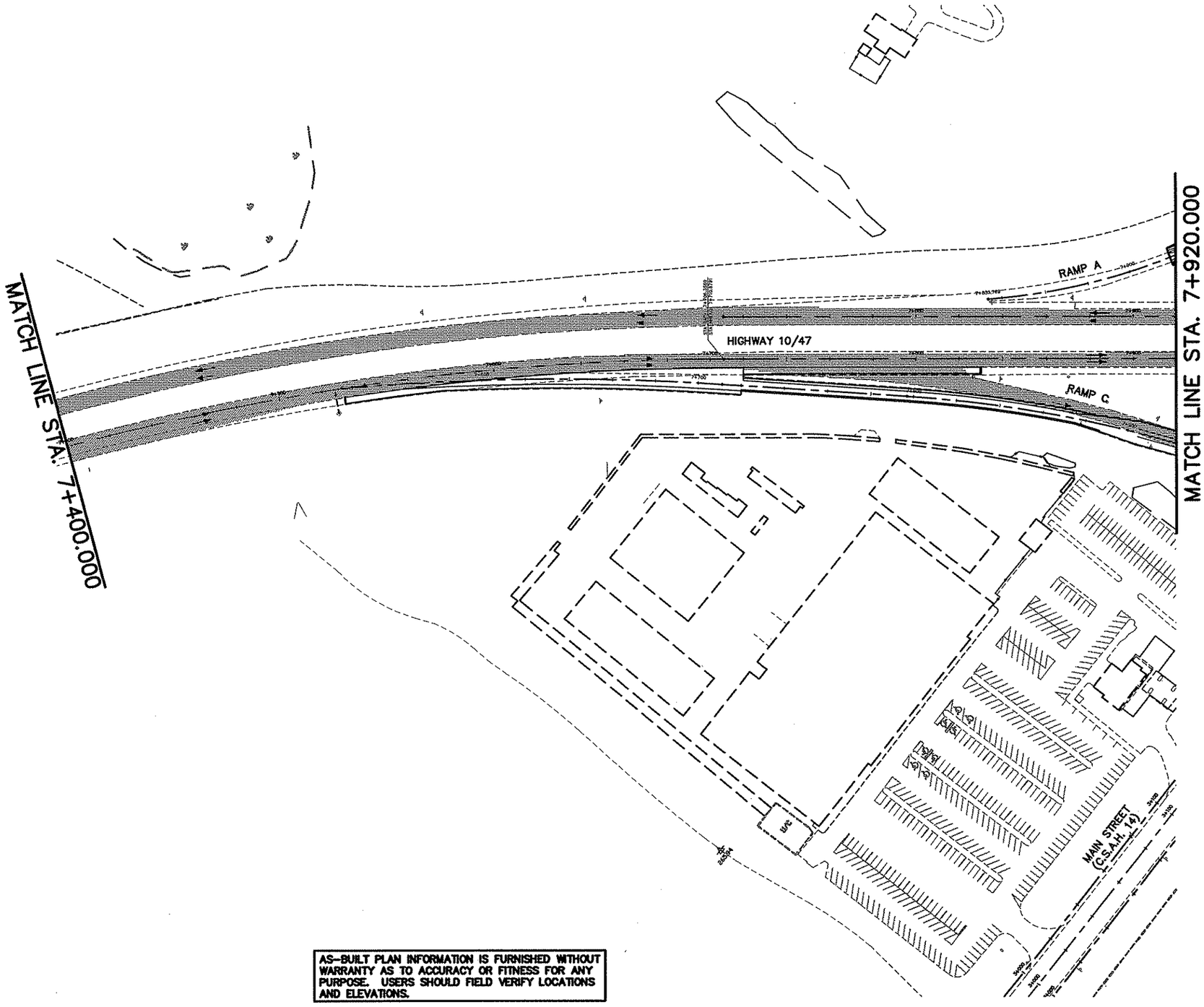
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 58 / 539

PLOT DATE: Aug 19, 2004 12:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH1_TRAF-CON\Tcp1s105X.dwg

\PBOX
12E-AL1
12E-PLN
12MHETO



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 1, STAGE 1)

7 OF 60

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCP1S111
DATE: NOVEMBER 5,1999

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Fiella

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
CONSTRUCTION STAGING PLAN
STA. 7+400.000 TO STA. 7+920.000

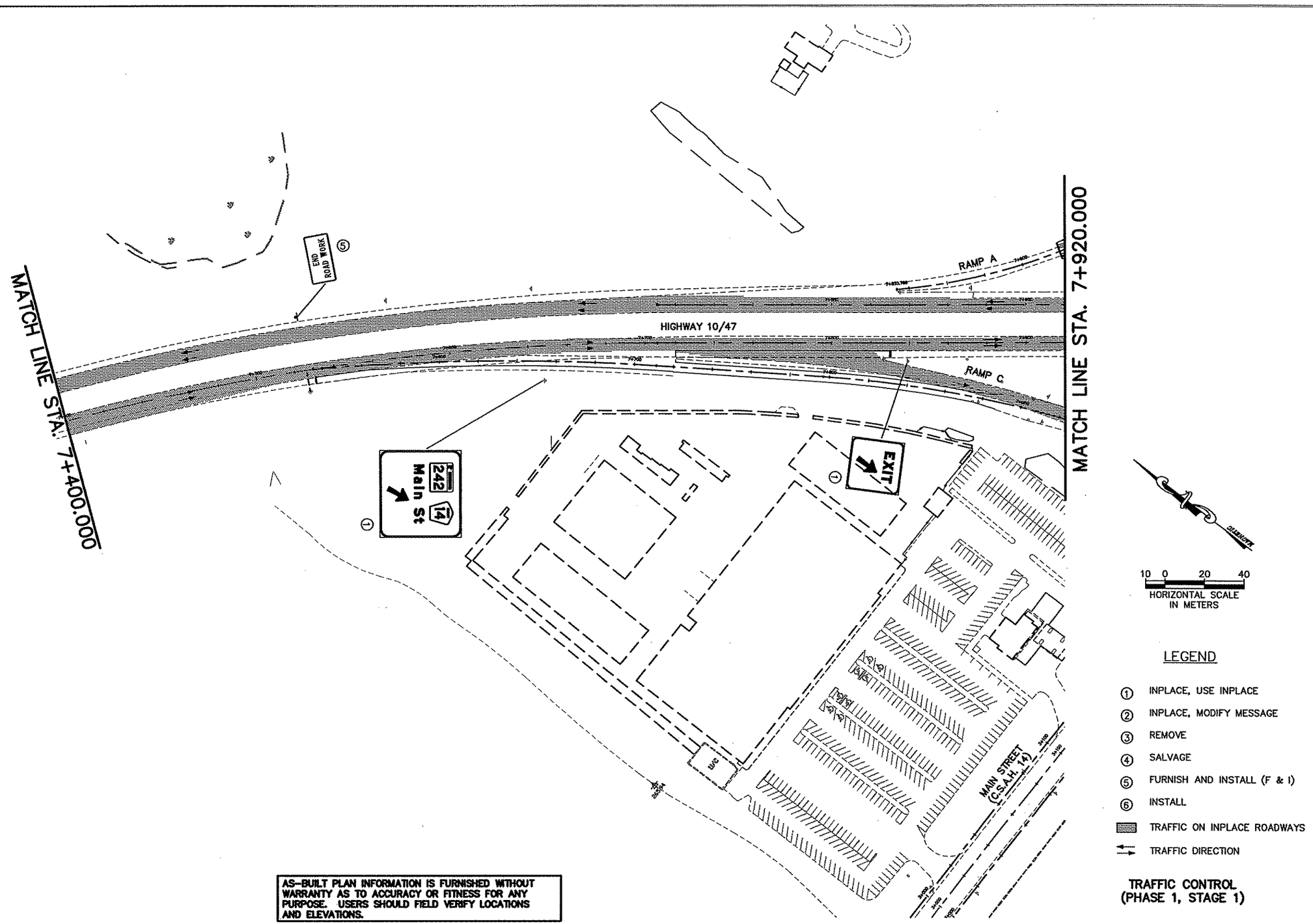
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 59 / 539

PLOT DATE: Aug 19, ...04 12:08pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH..._AF-CON\Tcp1s111.dwg

APBOX
42E-ALI
42E-PLN
42MHETO



LEGEND

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

TRAFFIC CONTROL (PHASE 1, STAGE 1)

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S111X
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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MINNEAPOLIS, MN 55415
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 7+400.000 TO STA. 7+920.000

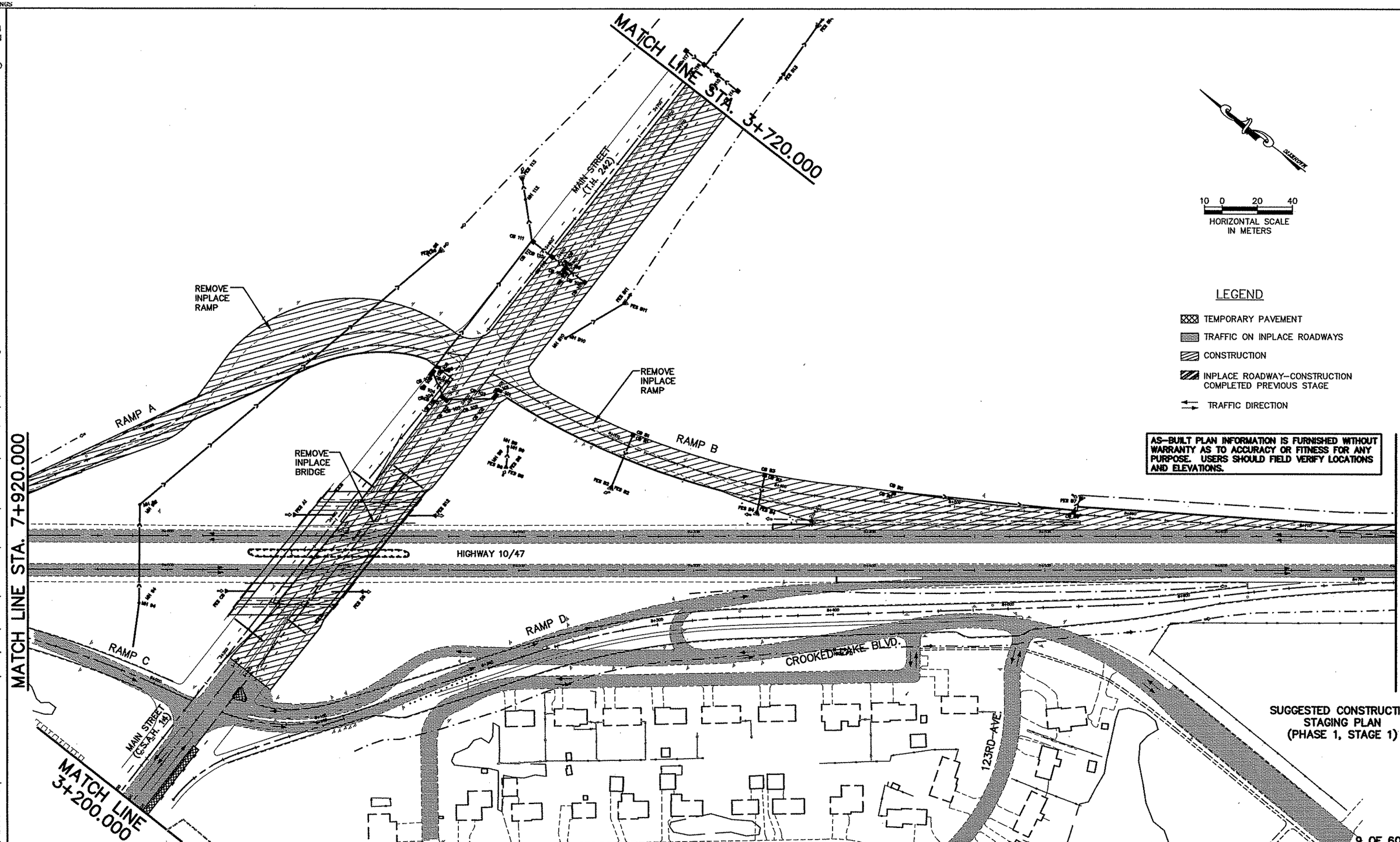
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 60 / 539

PLOT DATE: Aug 19, 2004 12:24pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\...\AF-CON\Tcp1s111X.dwg

REF DRAWINGS
ONPISI
_NWPISI
42E-PLN
APBOX
42E-ALI
42MHETO



10 0 20 40
HORIZONTAL SCALE IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

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SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 1, STAGE 1)

9 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S10X
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION HIGHWAY 10/47 AND MAIN STREET

CONSTRUCTION STAGING PLAN
STA. 7+920.000 TO STA. 8+700.000
STA. 3+200.000 TO STA. 3+720.000

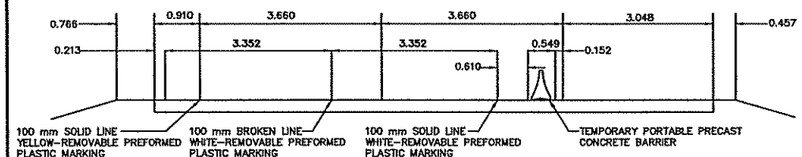
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

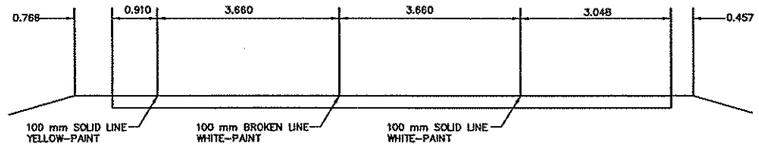
SHEET NO. 61 / 539

PLOT DATE: Jan 20, 2000 1:47pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SH...\RAF-CON\Tcp1s10X.dwg

-2E--PLN
-PBOX
-2E--ALI
-2MHETO



PHASE 1 STAGE 1
℄ W.B. 10/47 INP



⚠1 ⚠3 ⚠1 ⚠3 EXISTING
℄ W.B. 10/47

MATCH LINE STA. 3+720.000

MAIN STREET (T.H. 242)

WEST 10 47 NORTH



AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REMOVE INPLACE RAMP

SPEED TO ℄ TAPER
(1.006 m LANE SHIFT)
1.006 m x 65 M.P.H. = 66 m

REMOVE CONFLICTING PAVEMENT MARKING
REMOVABLE PREFORMED PLASTIC MARKING

LEGEND

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL
TRAFFIC ON INPLACE ROADWAYS
TRAFFIC DIRECTION

RAMP A

REMOVE INPLACE BRIDGE

REMOVE INPLACE RAMP

RAMP B

100 mm SOLID LINE YELLOW–REMOVABLE PREFORMED PLASTIC MARKING

100 mm BROKEN LINE YELLOW–REMOVABLE PREFORMED PLASTIC MARKING

100 mm SOLID LINE YELLOW–REMOVABLE PREFORMED PLASTIC MARKING

CONCRETE MEDIAN BARRIER W/ BARRIER REFLECTORS

65 MPH IMPACT ATTENUATORS (TYP.) ⚠1

CONCRETE MEDIAN BARRIER W/ BARRIER REFLECTORS

CONCRETE MEDIAN BARRIER W/ BARRIER REFLECTORS

HIGHWAY 10/47 3.35 mLANES (65 M.P.H.) 3.35 m LANES

RAMP C

RAMP D

RIGHT LANE CLOSED

ROAD WORK AHEAD

CROOKED LAKE BLVD.

123RD AVE.

MAIN STREET (C.S.A.H. 14)

ROAD CLOSED

ROAD CLOSED AHEAD

RIGHT LANE CLOSED

RIGHT LANE CLOSED

MATCH LINE STA. 7+920.000

MATCH LINE STA. 8+700.000

TRAFFIC CONTROL (PHASE 1, STAGE 1)

⚠1 10 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND ⚠1 EXTEND MEDIAN BARRIER
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S10XX
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION HIGHWAY 10/47 AND MAIN STREET

TRAFFIC CONTROL PLAN
STA. 7+920.000 TO STA. 8+700.000
STA. 3+200.000 TO STA. 3+720.000

CITY PROJECT 98–20

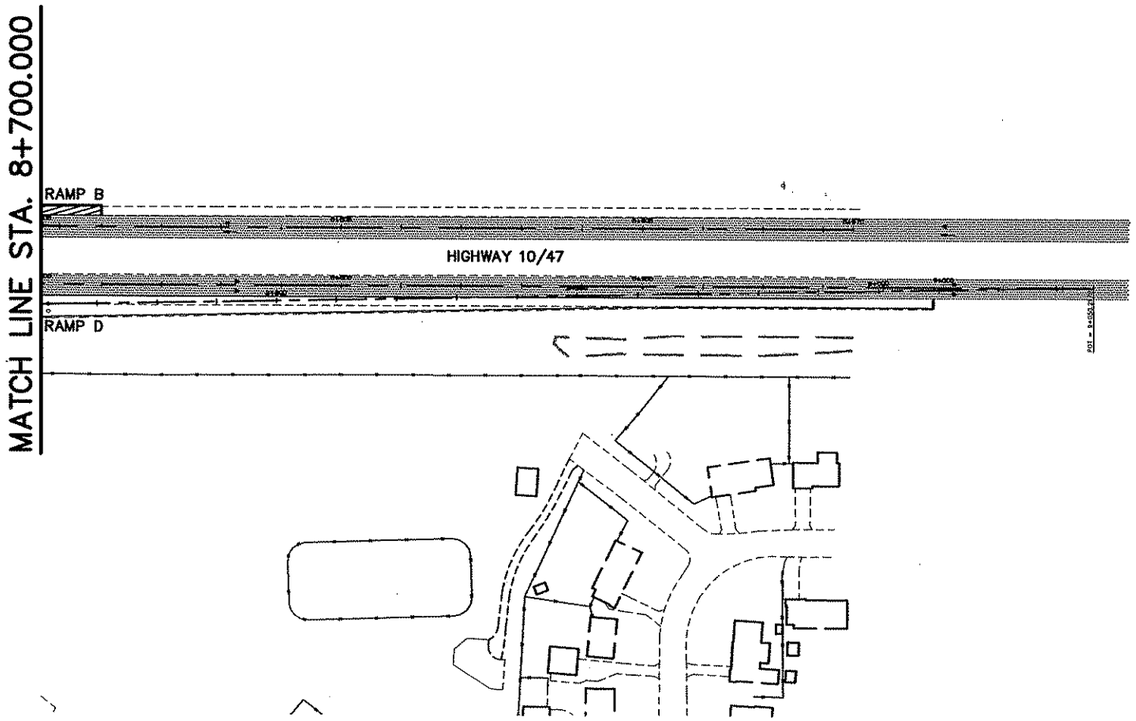
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

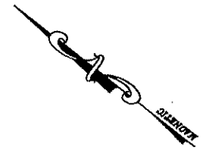
SHEET NO. 62 / 539

PLOT DATE: Aug 19, ...04 12:39pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\...AF–CON\Tcp1s10XX.dwg

REF DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO





10 0 20 40
HORIZONTAL SCALE
IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 1, STAGE 1)

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD | DWG. NAME: TCP1S102X
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL.)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Fields
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
CONSTRUCTION STAGING PLAN
STA. 8+700.000 TO STA. 9+050.000

CITY PROJECT 98–20

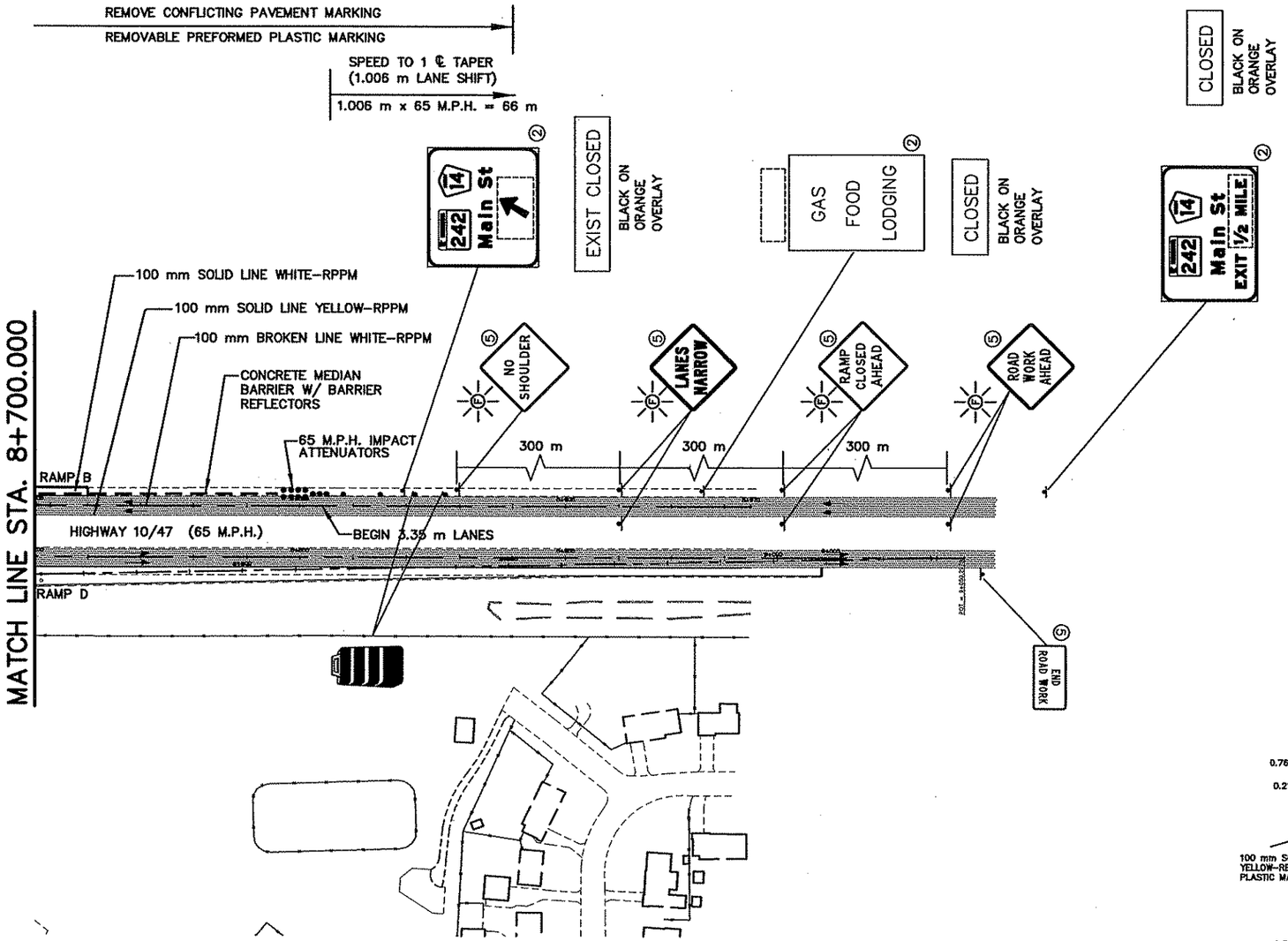
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 63 / 539

PLOT DATE: Dec 1999 12:58pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_...\RAF–CON\Tcp1s102X.dwg

XREF DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO





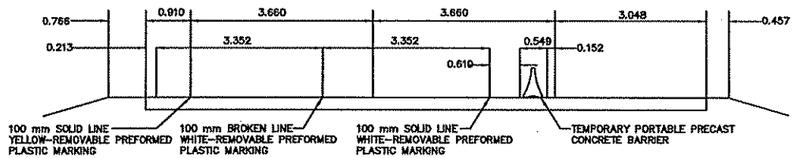
10 0 20 40
HORIZONTAL SCALE IN METERS

LEGEND

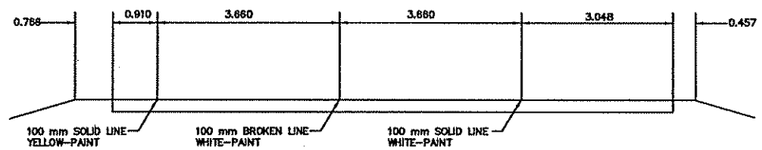
1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION



PHASE 1 STAGE 1
℄ W.B. 10/47 INP



EXISTING
℄ W.B. 10/47

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL
(PHASE 1, STAGE 1)

12 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD
DWG. NAME: TCP1S102XX
DATE: NOVEMBER 5, 1999

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Gulb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 8+700.000 TO STA. 9+050.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 64 / 539

PLOT DATE: Jan 2x, 4000 2:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh...\RAF-CON\Top1s102XX.dwg

REF DRAWINGS

APBOX
42E--ALI
42E--PLN
42MHETO

MATCH LINE STA. 3+720.000

MAIN STREET
(T.H. 242)

COON CREEK BLVD

COON CREEK BOULEVARD

SEE SHEETS 28 AND 43 OF 539
FOR TEMPORARY BYPASS CONSTRUCTION
(PAVEMENT INSET AND TYPICAL SECTION)

CONSTRUCT 600 mm
CMP W/ FES TO
ALLOW THROUGH
DRAINAGE

BYPASS

50 : 1

MAIN ST

MAGNETIC

10 0 20 40
HORIZONTAL SCALE
IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY--CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

SUGGESTED CONSTRUCTION
STAGING PLAN
(PHASE 1, STAGE 1)

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

13 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S103X
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Gielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
CONSTRUCTION STAGING PLAN
STA. 3+720.000 TO STA. 4+350.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 65 / 539

PLOT DATE: Jan 21, 2000 11:57am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SH\RAF-CON\Tcp1s103x.dwg

REF DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO

MATCH LINE STA. 3+720.000

SOUTH 47 / NORTH
EAST 10 / WEST
④

COON CREEK BLVD (18)

COON CREEK BOULEVARD (C.S.A.H. 18)
(45 M.P.H.)

30 M.P.H. IMPACT ATTENUATORS (TYP.)

PROPOSED TEMPORARY BYPASS

CONCRETE MEDIAN BARRIERS W/ BARRIER REFLECTORS

MAIN STREET (T.H. 242)

MAIN STREET (T.H. 242)
(55 M.P.H.)

Coon Creek Blvd (18) ①

JCT 10 / 47 ½ MILE ②

CLOSED
BLACK ON ORANGE OVERLAY

ROAD CLOSED BEGINNING DATE

INSTALL A MINIMUM OF 7 DAYS BEFORE CLOSING

COON CREEK BLVD (18) ④

SEE SHEETS 15 & 16 FOR TRAFFIC CONTROL (SIGNING) ALONG COON CREEK BOULEVARD AND MAIN STREET (T.H. 242)

MAGNETIC

10 0 20 40
HORIZONTAL SCALE IN METERS

LEGEND

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL
TRAFFIC ON INPLACE ROADWAYS
TRAFFIC DIRECTION

TRAFFIC CONTROL (PHASE 1, STAGE 1)

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S103XX
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
TRAFFIC CONTROL PLAN
STA. 3+720.000 TO STA. 4+350.000

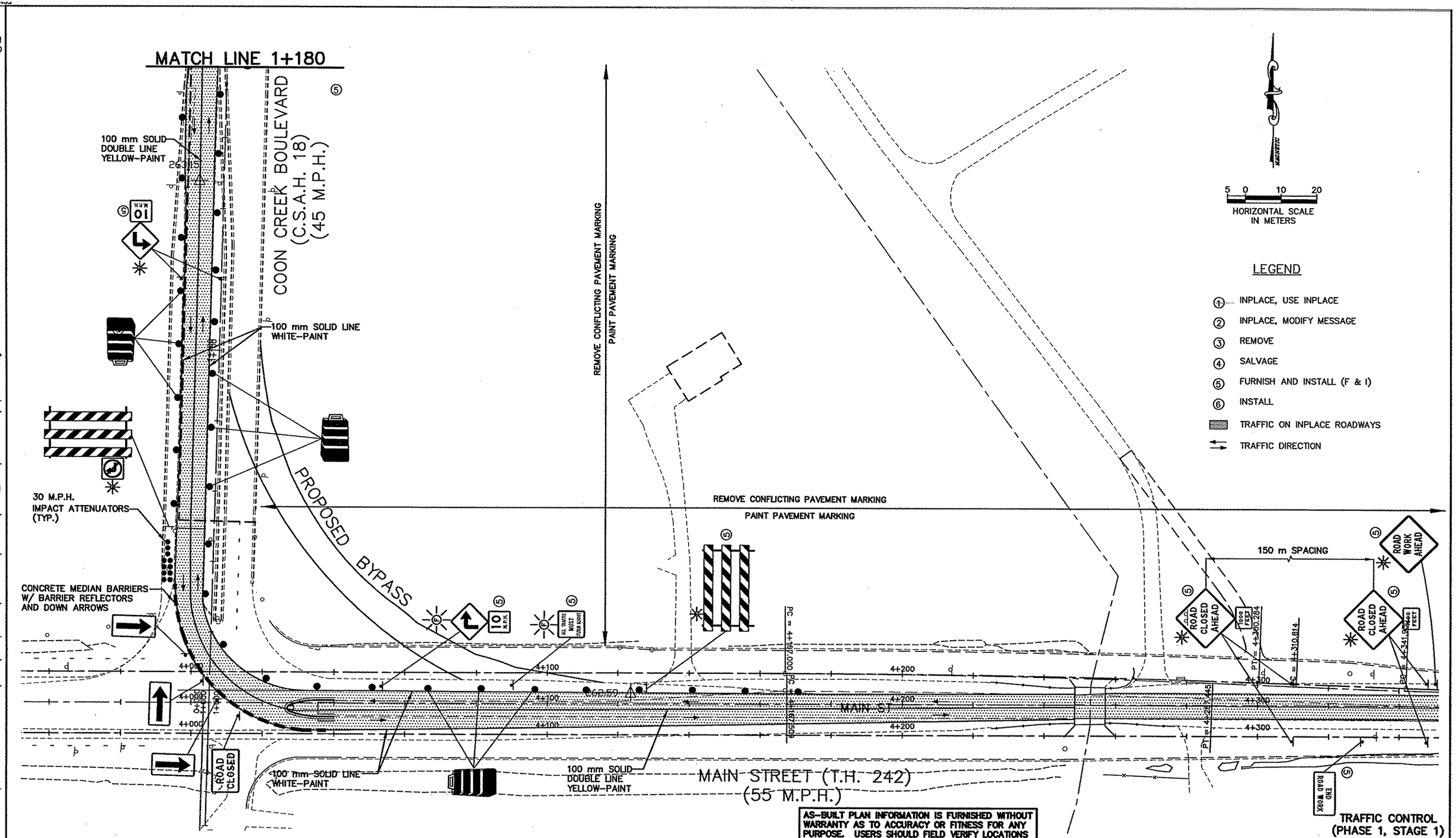
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 66 / 539

PLOT DATE: Jan 21, 2000 11:58am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\RAF-CON\Tcp1s103XX.dwg

SAPBOX
242E-ALI
242E-PLN
242MHETO



5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL (PHASE 1, STAGE 1)

15 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCPXSX46
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bulb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN ST./T.H. 242 & COON CREEK BLVD.
TRAFFIC CONTROL PLAN
STA. 4+000.000 TO STA. 9+350.000
STA. 1+000.000 TO STA. 1+180.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 67 / 539

PLOT DATE: Aug 19, 2004 12:16pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\TRAF-CON\Tcpxsx46.dwg

\PBOX
12E-AL I
12E-PLN
12MHETO

MATCH LINE 1+180

COON CREEK BOULEVARD

127TH AVE N.W.

LEGEND

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

MAGNETIC

5 0 10 20

HORIZONTAL SCALE IN METERS

ROAD WORK AHEAD

ROAD CLOSED

ONLY

STOP

600 mm SOLID STOP LINE YELLOW--PAINT

100 mm SOLID DOUBLE LINE YELLOW--PAINT

100 mm SOLID LINE WHITE--PAINT

100 mm SOLID DOUBLE LINE YELLOW--PAINT

REMOVE CONFLICTING PAVEMENT MARKING

PAINT PAVEMENT MARKING

1+200

1+300

1+400

1+500

PC = +374.5695

COON CREEK BOULEVARD
(C.S.A.H. 18)

(45 M.P.H.)

END ROAD WORK

REMOVE CONFLICTING PAVEMENT MARKING

PAINT PAVEMENT MARKING

TRAFFIC CONTROL
PHASE 1, STAGE 1

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16 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028

DRAWN BY: PMJ/JRJ | DESIGN BY: MSL

CHKED. BY: PBD/KPK | DWG. NAME: TCPXSX44

DATE: NOVEMBER 5, 1999

minnesota metric

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BLVD. (C.S.A.H. 18)
TRAFFIC CONTROL PLAN
STA. 1+180.000 TO STA. 1+500.000

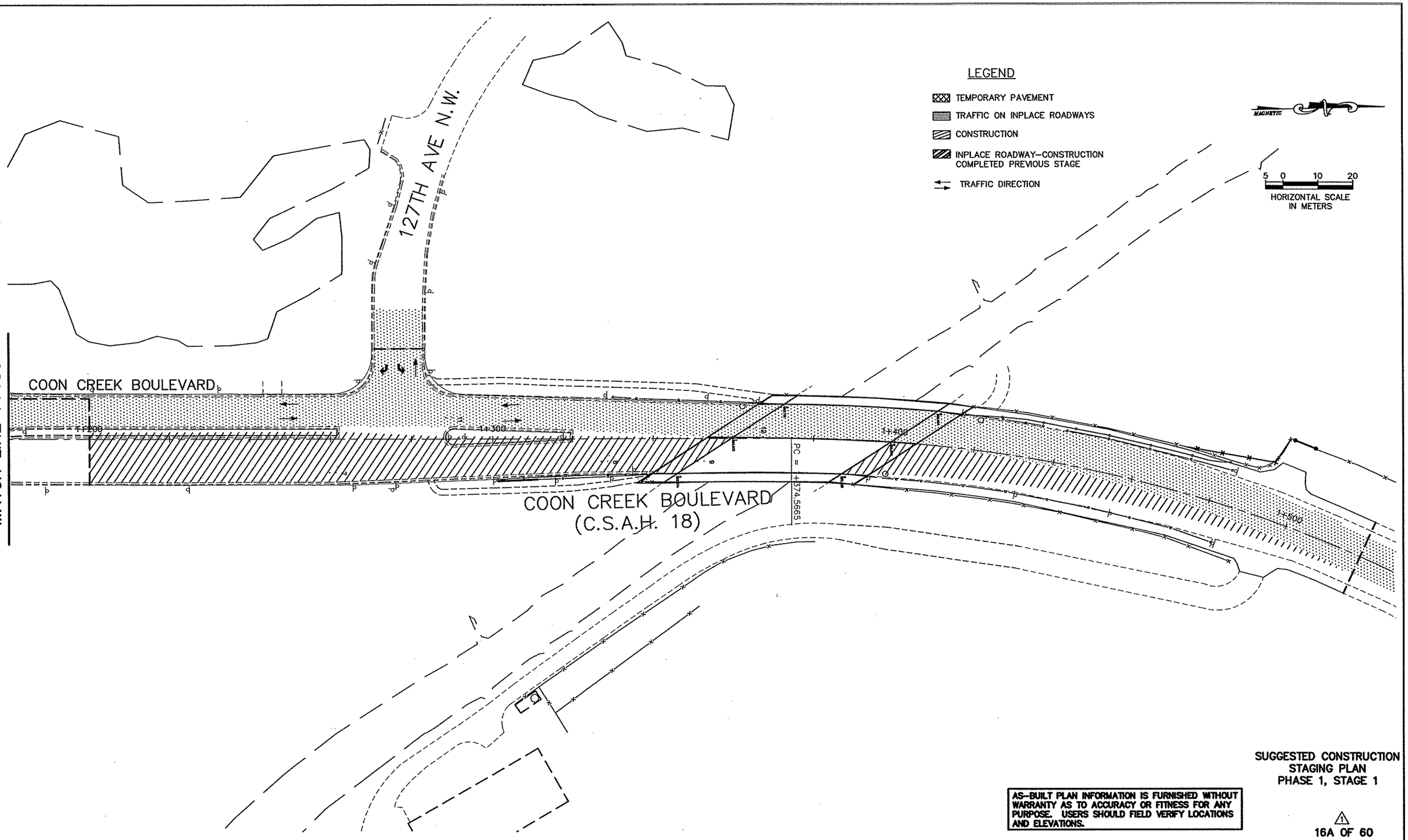
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 68 / 539

PLOT DATE: Aug 19, ...04 12:15pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH...AF-CON\Tcpxsx44.dwg

\PBOX
\2E-ALI
\2E-PLN
\2MHETO



SUGGESTED CONSTRUCTION
STAGING PLAN
PHASE 1, STAGE 1

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND 1 ADD'L CONSTR/TRAFFIC CONTROL SHEET P4, S1
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCPXSX44A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BLVD. (C.S.A.H. 18)
CONSTRUCTION STAGING PLAN
STA. 1+180.000 TO STA. 1+500.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 68A / 539

PLOT DATE: Aug 19, ..04 12:29pm DISK FILE NAME: (15.06) R:\3388\33889028\33889W\PLAN_SH\ ..AF–CON\Tcpxsx44A.dwg

APBOX
42E-ALI
42E-PLN
42MHETO

MATCH LINE 1+180

100 mm SOLID LINE WHITE-REMOVABLE PREFORMED PLASTIC MARKING.

COON CREEK BOULEVARD (C.S.A.H. 18) (45 M.P.H.)

30 M.P.H. IMPACT ATTENUATORS (TYP.)

ROAD CLOSED

100 mm SOLID LINE WHITE-PAINT

100 mm SOLID DOUBLE LINE YELLOW-PAINT

CONCRETE MEDIAN BARRIERS W/ BARRIER REFLECTORS AND DOWN ARROWS

BYPASS

REMOVE CONFLICTING PAVEMENT MARKING
PAINT PAVEMENT MARKING

REMOVE CONFLICTING PAVEMENT MARKING
PAINT PAVEMENT MARKING

10 0 20 40
HORIZONTAL SCALE IN METERS

LEGEND

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL
TRAFFIC ON INPLACE ROADWAYS
TRAFFIC DIRECTION

30 M.P.H.

150 m SPACING

ROAD WORK AHEAD

ROAD CLOSED AHEAD

ROAD CLOSED AHEAD

4+000 4+100 4+200 4+300

MAIN STREET / T.H. 242
(55 M.P.H.)

ROAD CLOSED

55 M.P.H. IMPACT ATTENUATORS (TYP.)

END ROAD WORK

TRAFFIC CONTROL PHASE 1, STAGE 1A

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

17 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCPXSX43
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1078 (FAX)

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Kevin P Gielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN ST./T.H. 242 & COON CREEK BLVD.
TRAFFIC CONTROL PLAN
STA. 4+000.000 TO STA. 9+350.000
STA. 1+000.000 TO STA. 1+180.000
CITY PROJECT 98-20

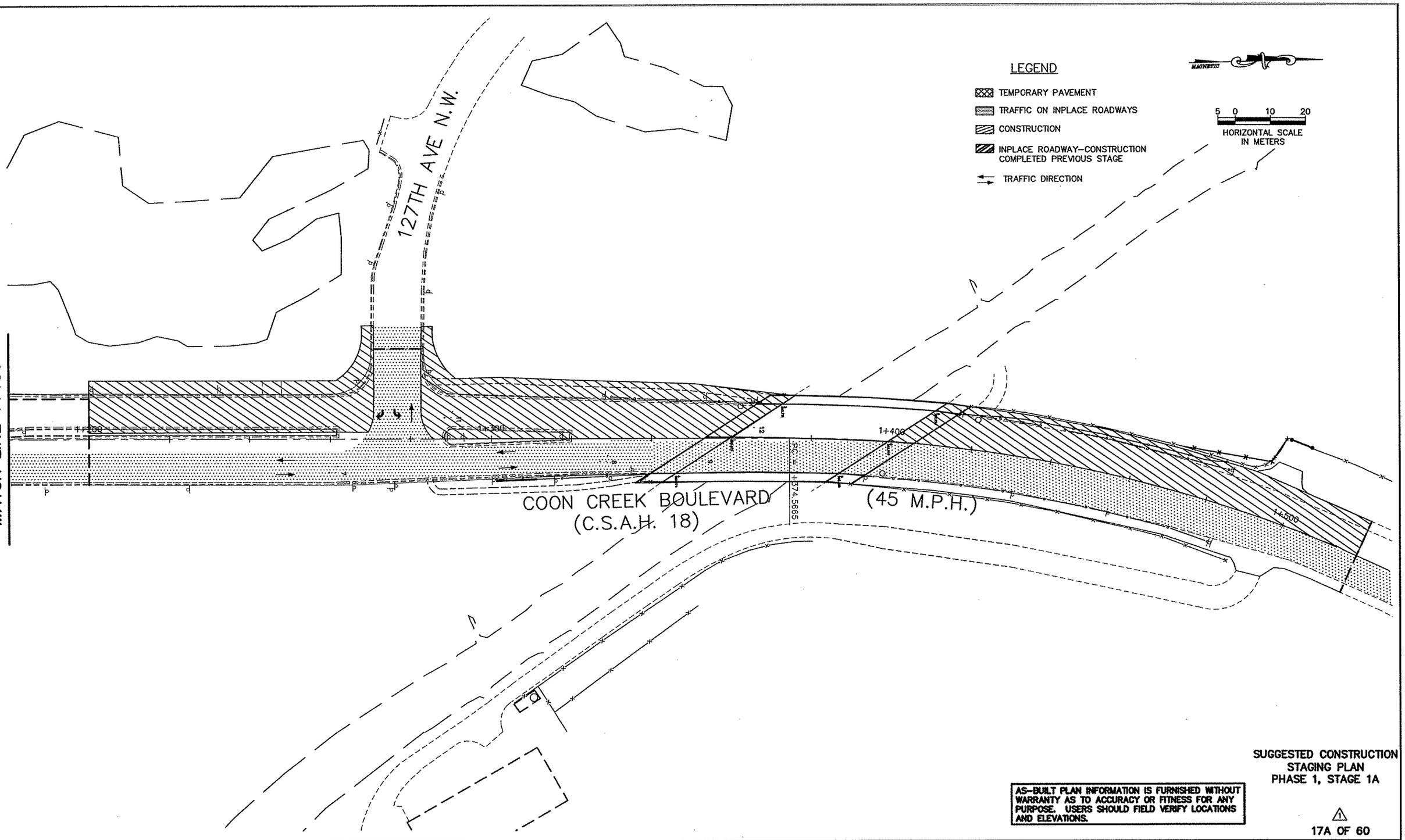
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 69 / 539

PLOT DATE: Aug 19, 2004 12:15pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH...RAF-CON\Tcpxsx43.dwg

REF DRAWINGS

)11AA
:MHETO
:E-PLN
:BOX
:E-AL1



SUGGESTED CONSTRUCTION STAGING PLAN
PHASE 1, STAGE 1A

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

17A OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND 1 ADD'L CONSTR. STAGING SHEET
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCPXSX45A
DATE: NOVEMBER 5, 1999

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BLVD. (C.S.A.H. 18)
CONSTRUCTION STAGING PLAN
STA. 1+180.000 TO STA. 1+500.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 69A / 539

PLOT DATE: Aug 19, ...04 12:31pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...AF-CON\Tcpxsx45A.dwg

'P1IAA
·2MHETO
·2E–PLN
\PBOX
·2E–ALI

LEGEND

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL
TRAFFIC ON INPLACE ROADWAYS
TRAFFIC DIRECTION

MAGNETIC

5 0 10 20
HORIZONTAL SCALE IN METERS

MATCH LINE 1+180

127TH AVE N.W.

ROAD WORK AHEAD ①

ROAD CLOSED

600 mm SOLID STOP LINE WHITE–PAINT

ATNO ATNO ⑤

100 mm SOLID DOUBLE LINE YELLOW–PAINT

100 mm SOLID LINE WHITE–PAINT

REMOVE CONFLICTING PAVEMENT MARKING

PAINT PAVEMENT MARKING

100 mm SOLID LINE WHITE PAINT

1+200

1+300

1+400

1+500

100 mm SOLID LINE WHITE–PAINT ⑤

100 mm SOLID DOUBLE LINE YELLOW–PAINT

STOP ⑤

STOP

COON CREEK BOULEVARD (C.S.A.H. 18)

(45 M.P.H.)

ROAD WORK AHEAD

END ROAD WORK ⑤

REMOVE CONFLICTING PAVEMENT MARKING

PAINT PAVEMENT MARKING

TRAFFIC CONTROL
PHASE 1, STAGE 1A

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18 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCPXSX45
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

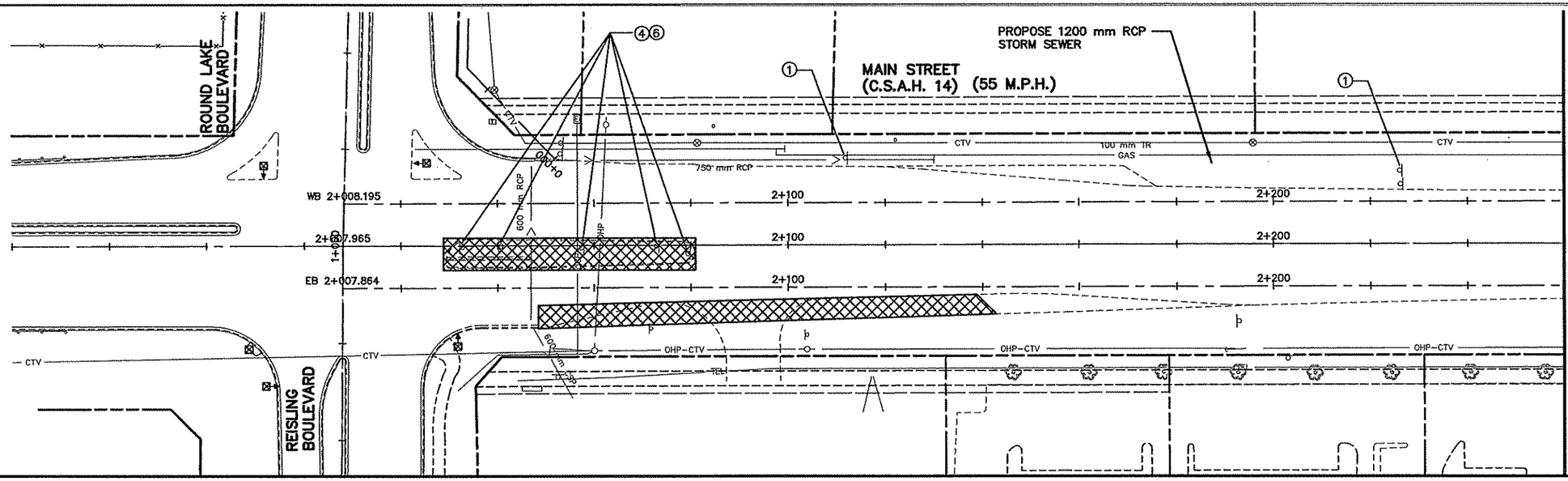
MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BLVD. (C.S.A.H. 18)
TRAFFIC CONTROL PLAN
STA. 1+180.000 TO STA. 1+500.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 70 / 539

PLOT DATE: Aug 19, 2004 12:16pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\TRAF–CON\Tcpxsx45.dwg



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 1, STAGE 1)

MATCH LINE 2+260

5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

(1) INPLACE, USE INPLACE
(2) INPLACE, MODIFY MESSAGE
(3) REMOVE
(4) SALVAGE
(5) FURNISH AND INSTALL (F & I)
(6) INSTALL

PHASE 1, STAGE 1:

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

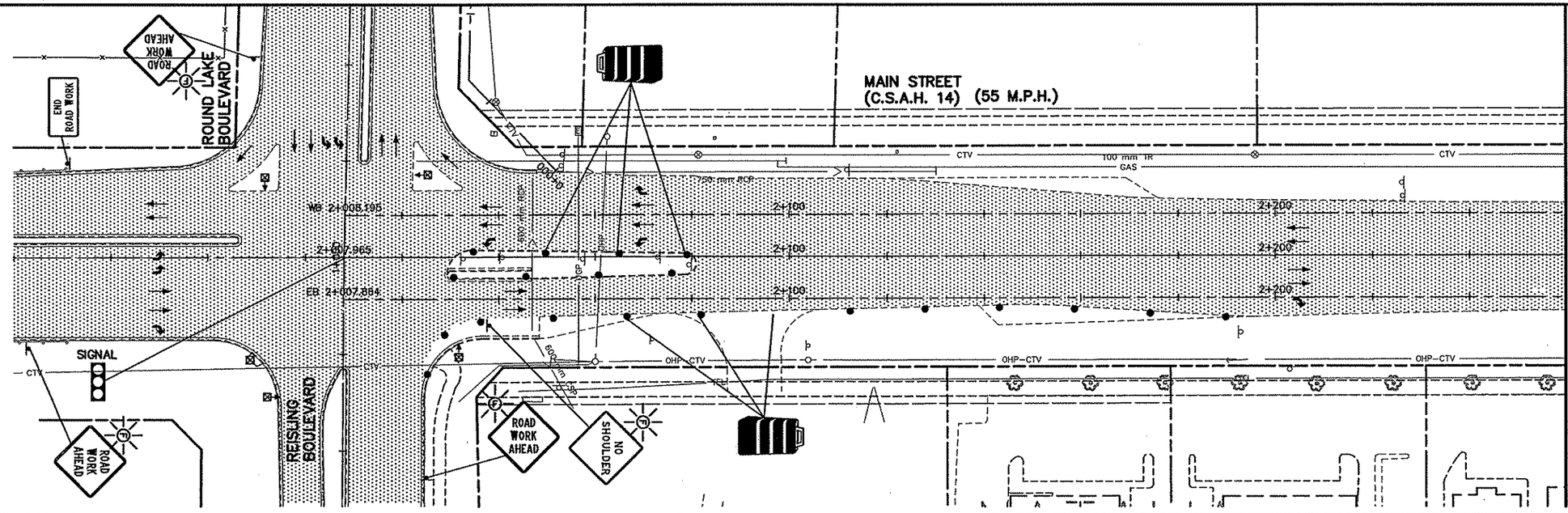
TRAFFIC:

- W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN TROUGHOUT PROJECT
- E.B. T.H. 10/47 OFF AND ON RAMPS AT MAIN STREET WILL REMAIN OPEN.
- MAIN STREET (C.S.A.H. 14) WILL REMAIN OPEN.

CONSTRUCTION:

- CONSTRUCT RAMPS A AND B
- CONSTRUCT SOUTH EASTERLY HALF OF BRIDGE
- CONSTRUCT SOUTH EASTERLY HALF OF MAIN STREET (T.H. 242)
- BETWEEN STATION 3+300 TO COON CREEK BLVD. (C.S.A.H. 18)
- UNDERGROUND UTILITIES ALONG NORTHERLY SIDE OF MAIN STREET (C.S.A.H. 14)
- TEMPORARY PAVEMENT ALONG SOUTHERLY SIDE OF MAIN STREET (C.S.A.H. 14)

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



TRAFFIC CONTROL (PHASE 1, STAGE 1)

MATCH LINE 2+260

18A OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCP1S1D1
DATE: NOVEMBER 5, 1999

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

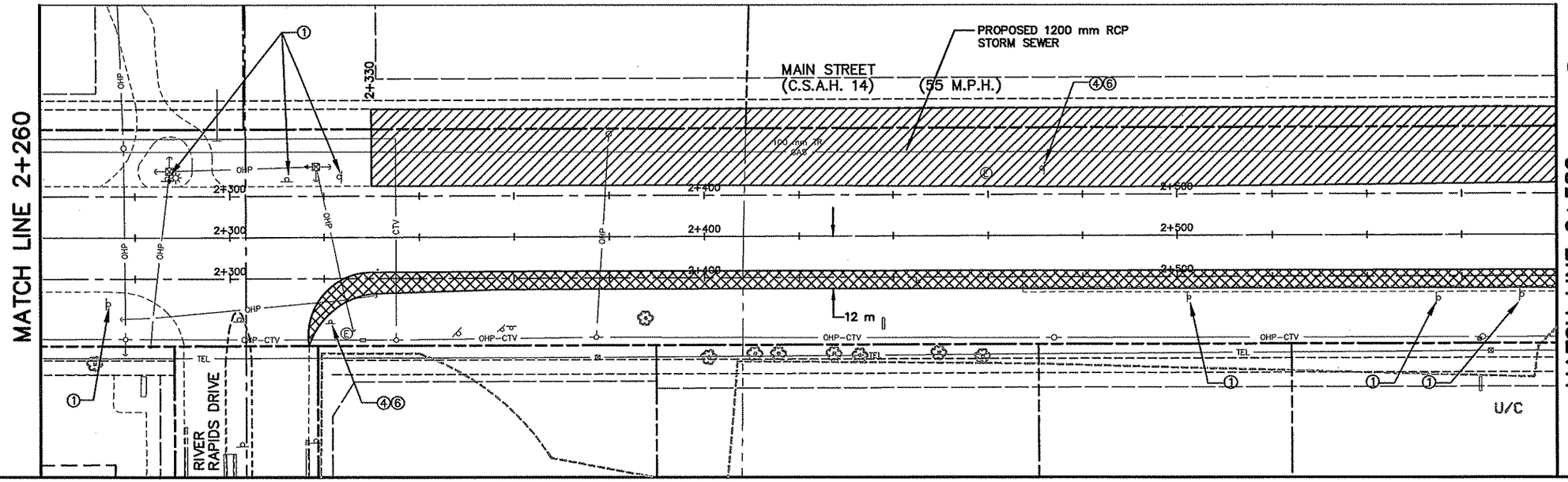
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+580.000 TO STA. 2+920.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 70A / 539

PLOT DATE: Aug 19, 2004 12:14pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\TCP1S1D1-CON\Tcp1s1D1dwg.dwg



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 1, STAGE 1)

5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL

PHASE 1, STAGE 1:

GENERAL:

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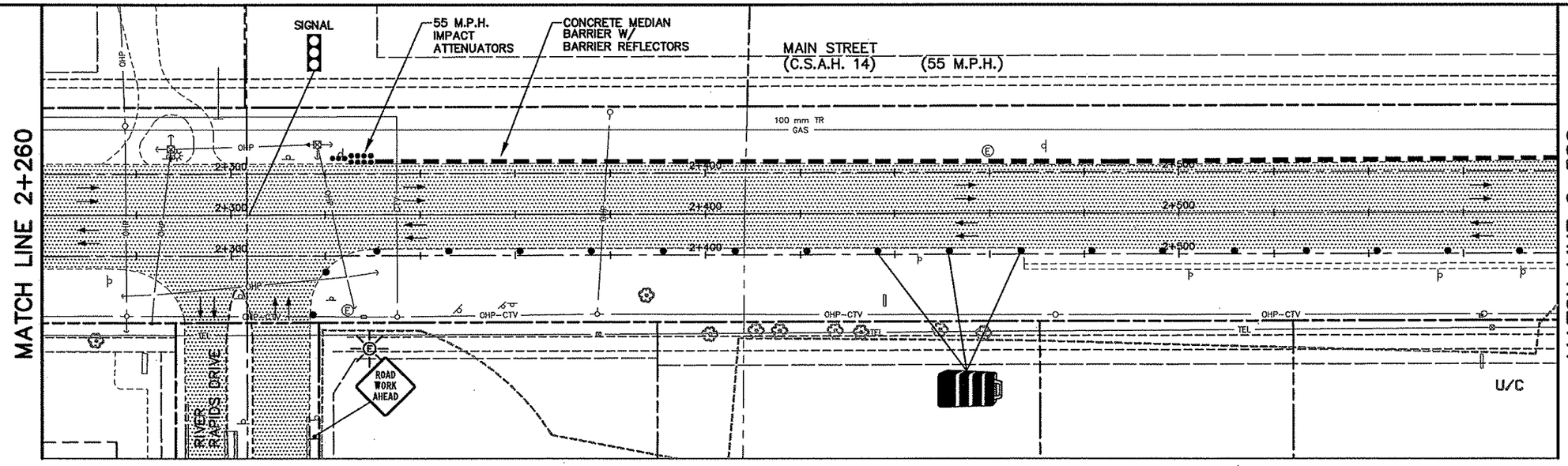
TRAFFIC:

- W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN TROUGHOUT PROJECT
- E.B. T.H. 10/47 OFF AND ON RAMPS AT MAIN STREET WILL REMAIN OPEN.
- MAIN STREET (C.S.A.H. 14) WILL REMAIN OPEN.

CONSTRUCTION:

- CONSTRUCT RAMPS A AND B
- CONSTRUCT SOUTH EASTERLY HALF OF BRIDGE
- CONSTRUCT SOUTH EASTERLY HALF OF MAIN STREET (T.H. 242)
- BETWEEN STATION 3+300 TO COON CREEK BLVD. (C.S.A.H. 18)
- UNDERGROUND UTILITIES ALONG NORTHERLY SIDE OF MAIN STREET (C.S.A.H. 14)
- TEMPORARY PAVEMENT ALONG SOUTHERLY SIDE OF MAIN STREET (C.S.A.H. 14)

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TRAFFIC CONTROL (PHASE 1, STAGE 1)

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCP1S1C1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

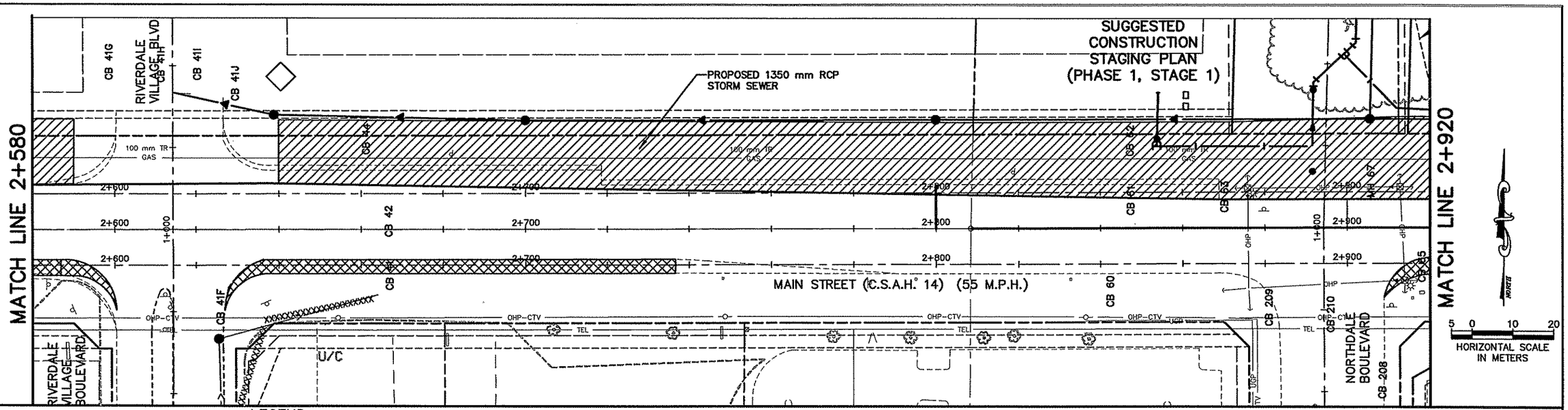
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+580.000 TO STA. 2+920.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 70B / 539

PLOT DATE: Aug 1?,...004 12:14pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_...\AF-CON\Tcp1s1C1dwg.dwg



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL

PHASE 1, STAGE 1:

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

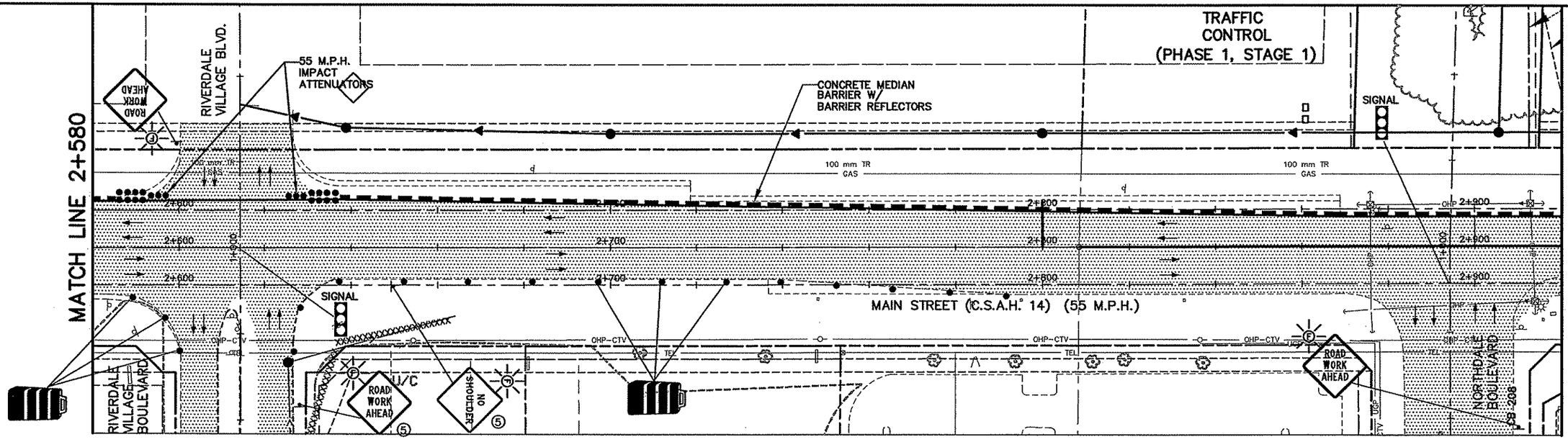
TRAFFIC:

- W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN TROUGHOUT PROJECT
- E.B. T.H. 10/47 OFF AND ON RAMPS AT MAIN STREET WILL REMAIN OPEN.
- MAIN STREET (C.S.A.H. 14) WILL REMAIN OPEN.

CONSTRUCTION:

- CONSTRUCT RAMPS A AND B
- CONSTRUCT SOUTH EASTERLY HALF OF BRIDGE
- CONSTRUCT SOUTH EASTERLY HALF OF MAIN STREET (T.H. 242)
- BETWEEN STATION 3+300 TO COON CREEK BLVD. (C.S.A.H. 18)
- UNDERGROUND UTILITIES ALONG NORTHERLY SIDE OF MAIN STREET (C.S.A.H. 14)
- TEMPORARY PAVEMENT ALONG SOUTHERLY SIDE OF MAIN STREET (C.S.A.H. 14)

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18C OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCP1S1B1
DATE: NOVEMBER 5, 1999

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Kevin P Fiebig

DATE: 11/5/99 MINN. REG. NO. 23211

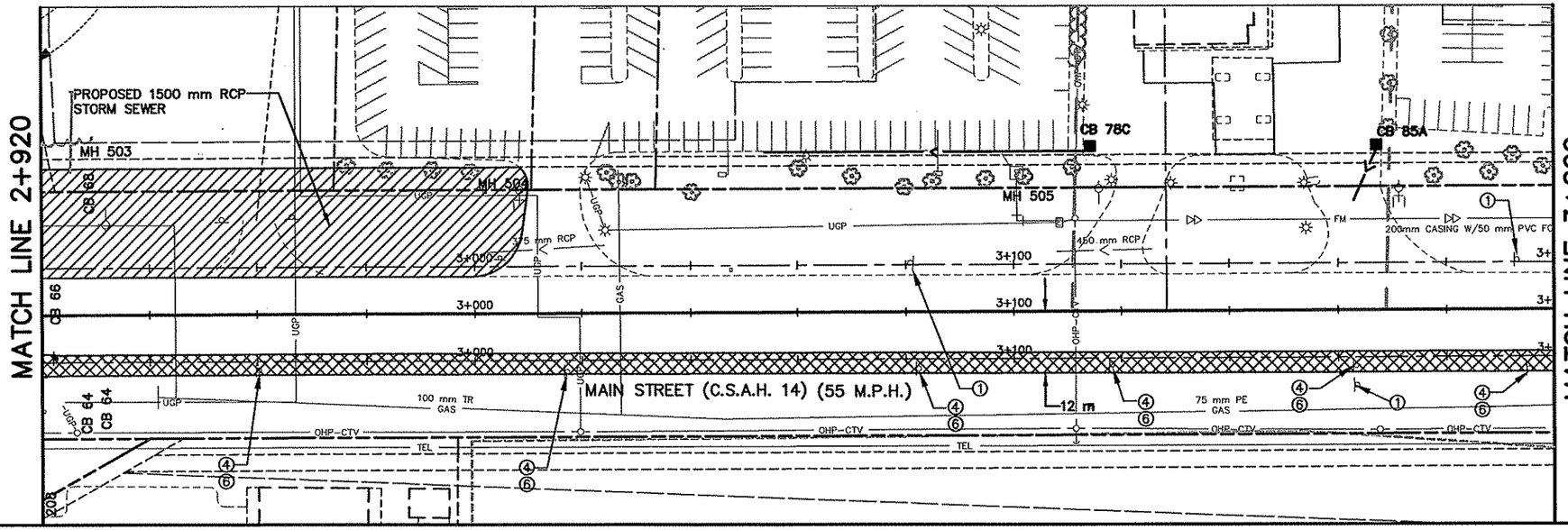
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+580.000 TO STA. 2+920.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 70C / 539

PLOT DATE: Aug 1_ J04 12:13pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh_ _AF–CON\Tcp1s1B1dwg.dwg



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 1, STAGE 1)

5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL

PHASE 1, STAGE 1:

GENERAL:

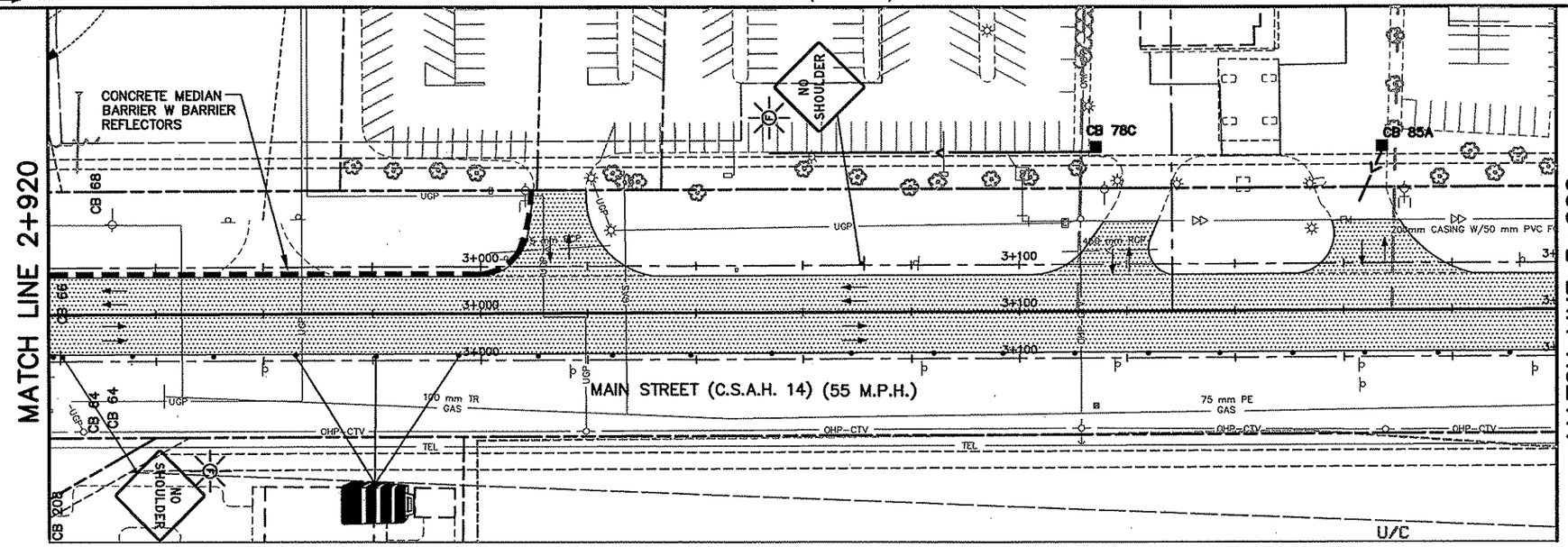
THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN TROUGHOUT PROJECT
- E.B. T.H. 10/47 OFF AND ON RAMPS AT MAIN STREET WILL REMAIN OPEN.
- MAIN STREET (C.S.A.H. 14) WILL REMAIN OPEN.

CONSTRUCTION:

- CONSTRUCT RAMPS A AND B
- CONSTRUCT SOUTH EASTERLY HALF OF BRIDGE
- CONSTRUCT SOUTH EASTERLY HALF OF MAIN STREET (T.H. 242)
- BETWEEN STATION 3+300 TO COON CREEK BLVD. (C.S.A.H. 18)
- UNDERGROUND UTILITIES ALONG NORTHERLY SIDE OF MAIN STREET (C.S.A.H. 14)
- TEMPORARY PAVEMENT ALONG SOUTHERLY SIDE OF MAIN STREET (C.S.A.H. 14)



TRAFFIC CONTROL (PHASE 1, STAGE 1)

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

18D OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S1A1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DEM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)570-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

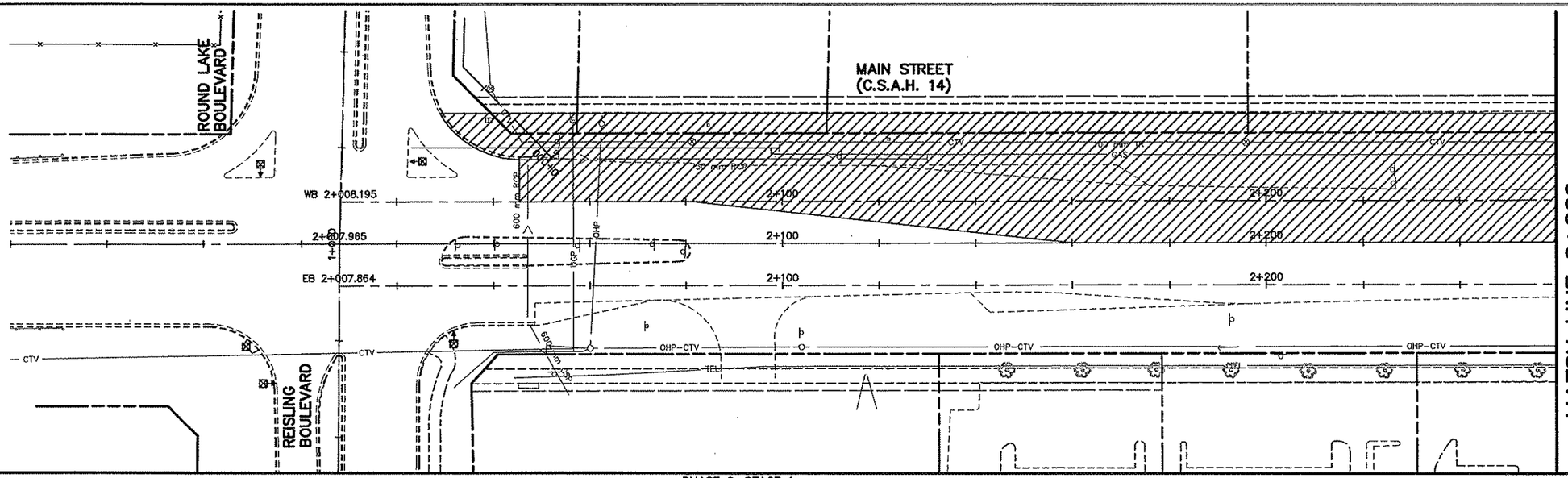
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+580.000 TO STA. 2+920.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 70D / 539

PLOT DATE: Aug 19, 2004 12:13pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\TRAF-CON\Top1s1A1dwg.dwg



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 2, STAGE 1)

MATCH LINE 2+260

5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL

PHASE 2, STAGE 1:

GENERAL:

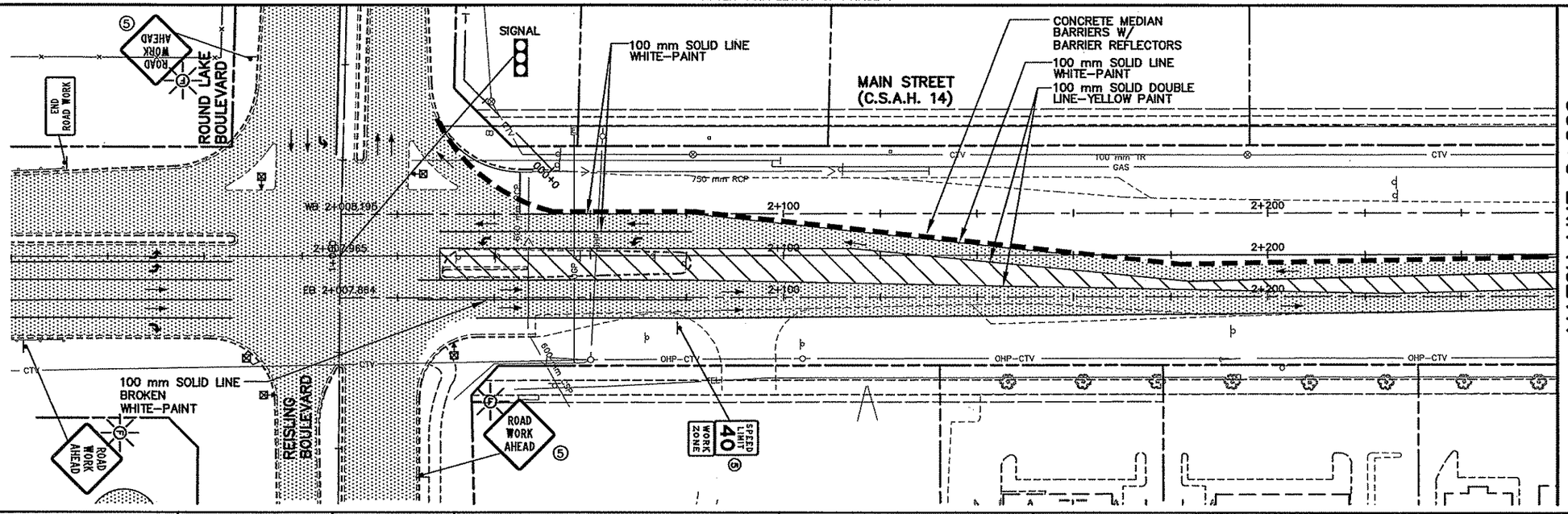
THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN THROUGHOUT PROJECT
- E.B. T.H. 10/47 ON RAMP D WILL REMAIN OPEN
- MAIN STREET (C.S.A.H. 14/T.H. 242) IS CONTINUOUS AND TWO–WAY
- TRAFFIC ON SOUTHERLY HALF OF INPLACE AND NEW ROADWAY
- W.B. T.H. 10/47 OFF AND ON RAMPS A AND B ARE OPEN AFTER COMPLETION OF PHASE 1

CONSTRUCTION:

- RAMP C
- NORTH HALF MAIN STREET (C.S.A.H. 14) BETWEEN ROUND LAKE BLVD. AND T.H. 10/47



TRAFFIC CONTROL (PHASE 2, STAGE 1)

MATCH LINE 2+260

19 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S101
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Bielb
DATE: 11/5/99 MINN. REG. NO. 23211

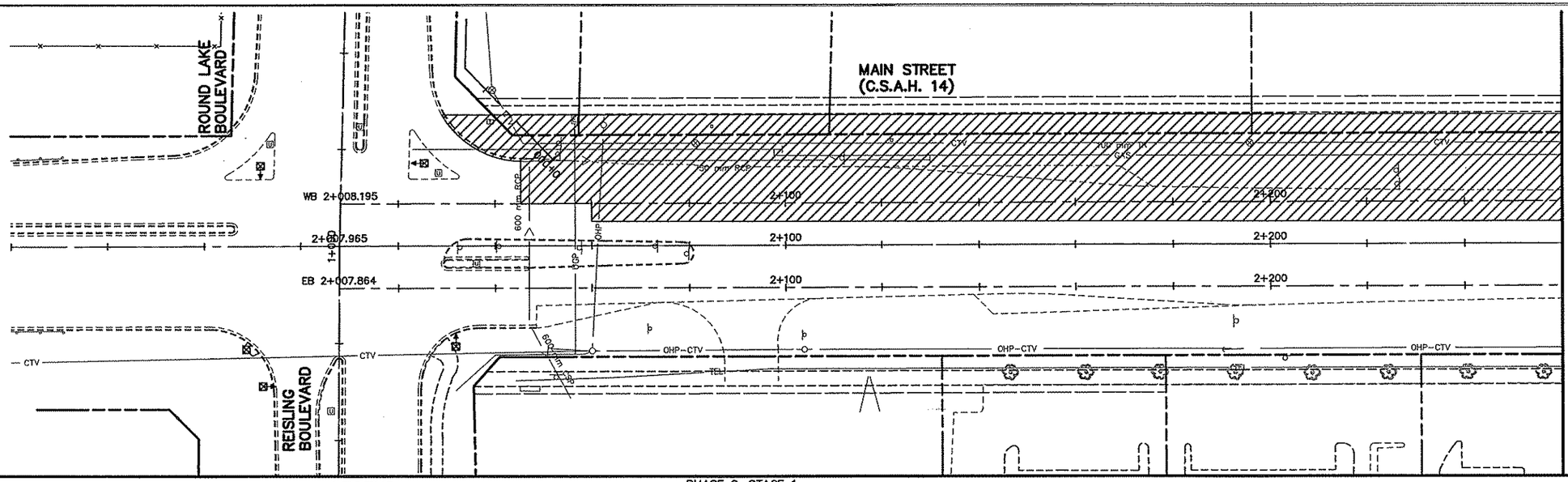
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 1+940.000 TO STA. 2+260.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 71 / 539

PLOT DATE: Aug 17, 2004 9:16am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\TRAF–CON\Tcp1s101.dwg



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 2, STAGE 1A)

MATCH LINE 2+260

5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL

PHASE 2, STAGE 1:

GENERAL:

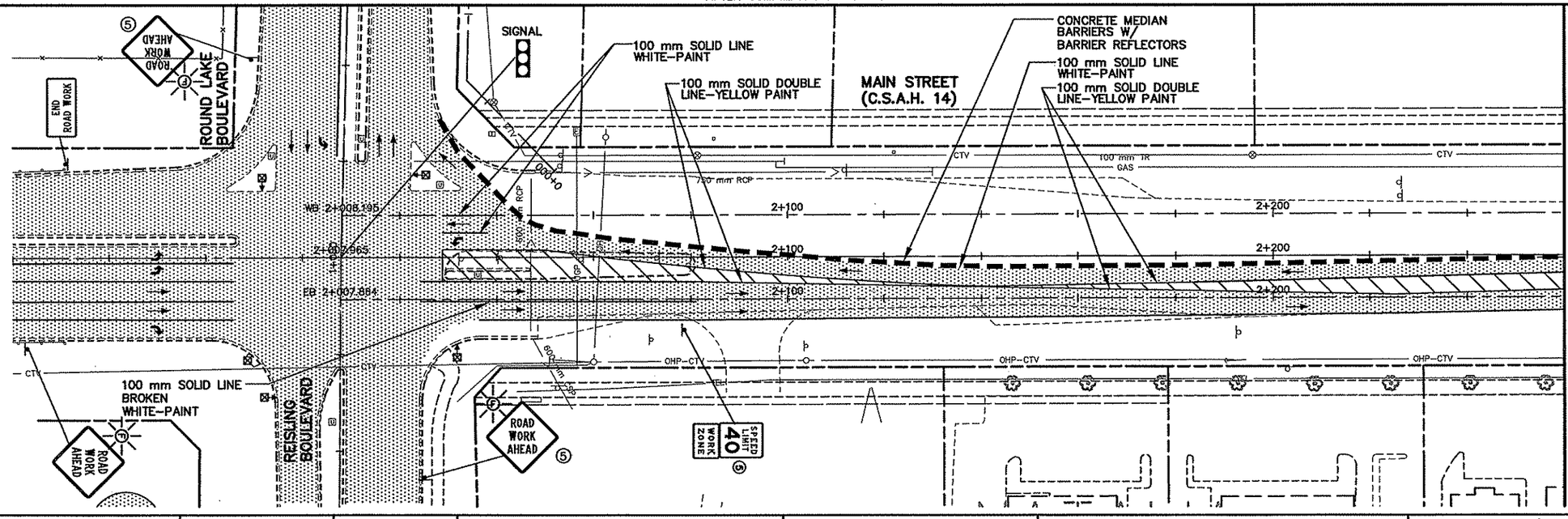
THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN THROUGHOUT PROJECT
- E.B. T.H. 10/47 ON RAMP D WILL REMAIN OPEN
- MAIN STREET (C.S.A.H. 14/T.H. 242) IS CONTINUOUS AND TWO–WAY
- TRAFFIC ON SOUTHERLY HALF OF INPLACE AND NEW ROADWAY
- W.B. T.H. 10/47 OFF AND ON RAMPS A AND B ARE OPEN AFTER COMPLETION OF PHASE 1

CONSTRUCTION:

- RAMP C
- NORTH HALF MAIN STREET (C.S.A.H. 14) BETWEEN ROUND LAKE BLVD. AND T.H. 10/47



TRAFFIC CONTROL (PHASE 2, STAGE 1A)

MATCH LINE 2+260

19A OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	KPK	7/10/00	MOD. REQ. #44: ADDITIONAL STAGE
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S101Z
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 1+940.000 TO STA. 2+260.000

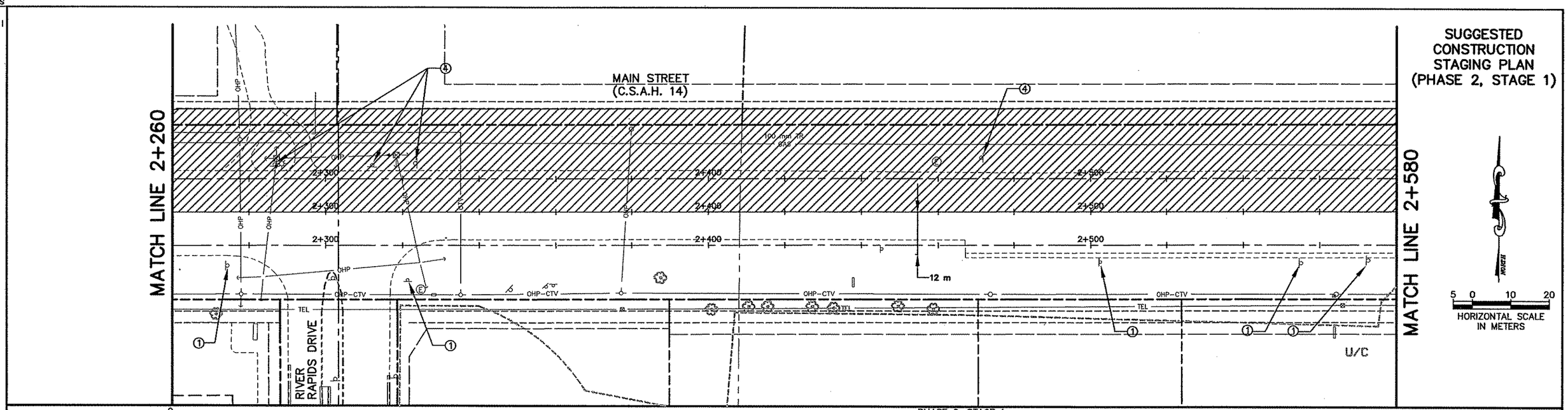
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 71A / 539

PLOT DATE: Aug 17, 2004 9:15am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH1\TRAF–CON\Tcp1s101z.dwg

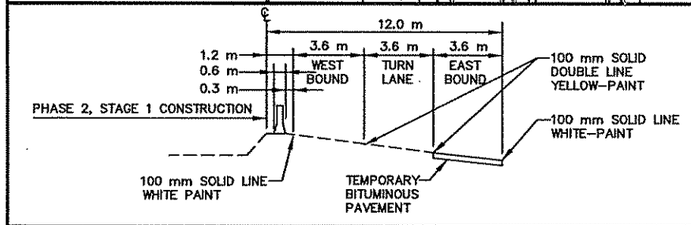
DRAWINGS
PBOX
RIPWPISI
2PLNW
2-ALIW
2-ESUM
2MHVEG
2MHETO
2-F



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 2, STAGE 1)

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY-CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL

PHASE 2, STAGE 1:

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

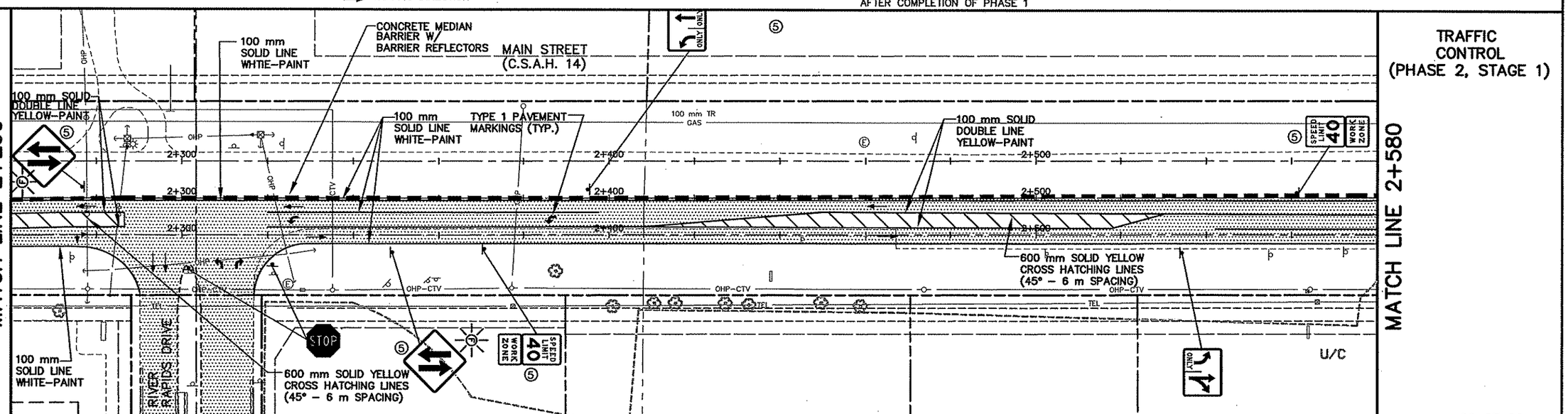
TRAFFIC:

- W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN THROUGHOUT PROJECT
- E.B. T.H. 10/47 ON RAMP D WILL REMAIN OPEN
- MAIN STREET (C.S.A.H. 14/T.H. 242) IS CONTINUOUS AND TWO-WAY
- TRAFFIC ON SOUTHERLY HALF OF INPLACE AND NEW ROADWAY
- W.B. T.H. 10/47 OFF AND ON RAMPS A AND B ARE OPEN AFTER COMPLETION OF PHASE 1

CONSTRUCTION:

- RAMP C
- NORTH HALF MAIN STREET (C.S.A.H. 14) BETWEEN ROUND LAKE BLVD. AND T.H. 10/47

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



TRAFFIC CONTROL (PHASE 2, STAGE 1)

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD | DWG. NAME: TCP1S102
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

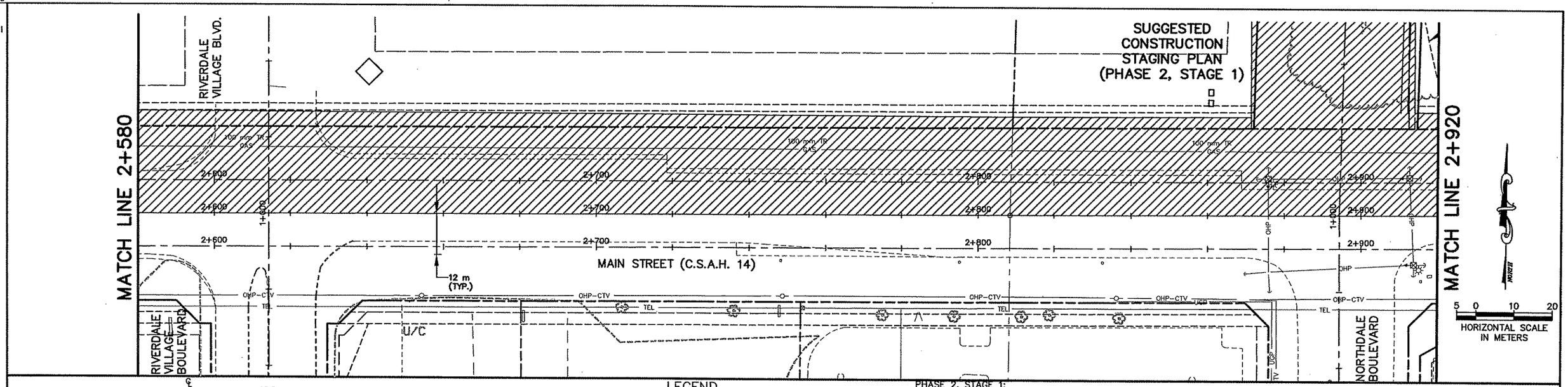
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+260.000 TO STA. 2+580.000

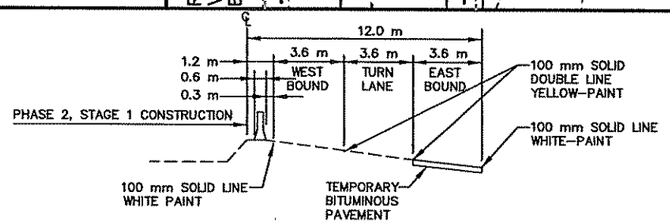
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 72 / 539

PLOT DATE: Jan 4, 2000 3:44pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S...\TRAF-CON\Tcp1s102.dwg





LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL

PHASE 2, STAGE 1:

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

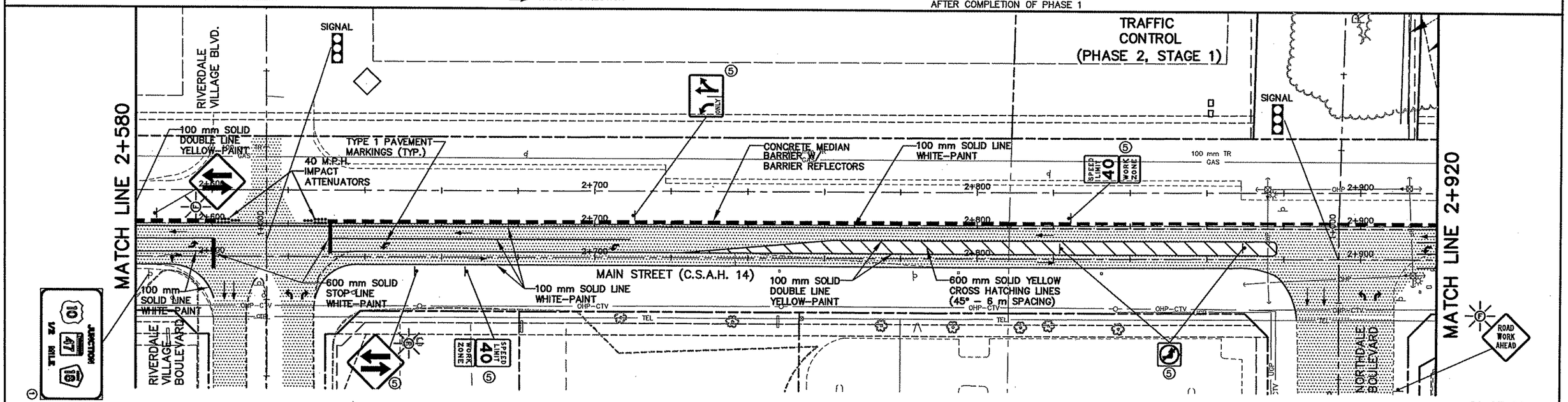
TRAFFIC:

- W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN THROUGHOUT PROJECT
- E.B. T.H. 10/47 ON RAMP D WILL REMAIN OPEN
- MAIN STREET (C.S.A.H. 14/T.H. 242) IS CONTINUOUS AND TWO-WAY
- TRAFFIC ON SOUTHERLY HALF OF INPLACE AND NEW ROADWAY
- W.B. T.H. 10/47 OFF AND ON RAMPS A AND B ARE OPEN AFTER COMPLETION OF PHASE 1

CONSTRUCTION:

- RAMP C
- NORTH HALF MAIN STREET (C.S.A.H. 14) BETWEEN ROUND LAKE BLVD. AND T.H. 10/47

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCP1S103
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kuelbs

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+580.000 TO STA. 2+920.000

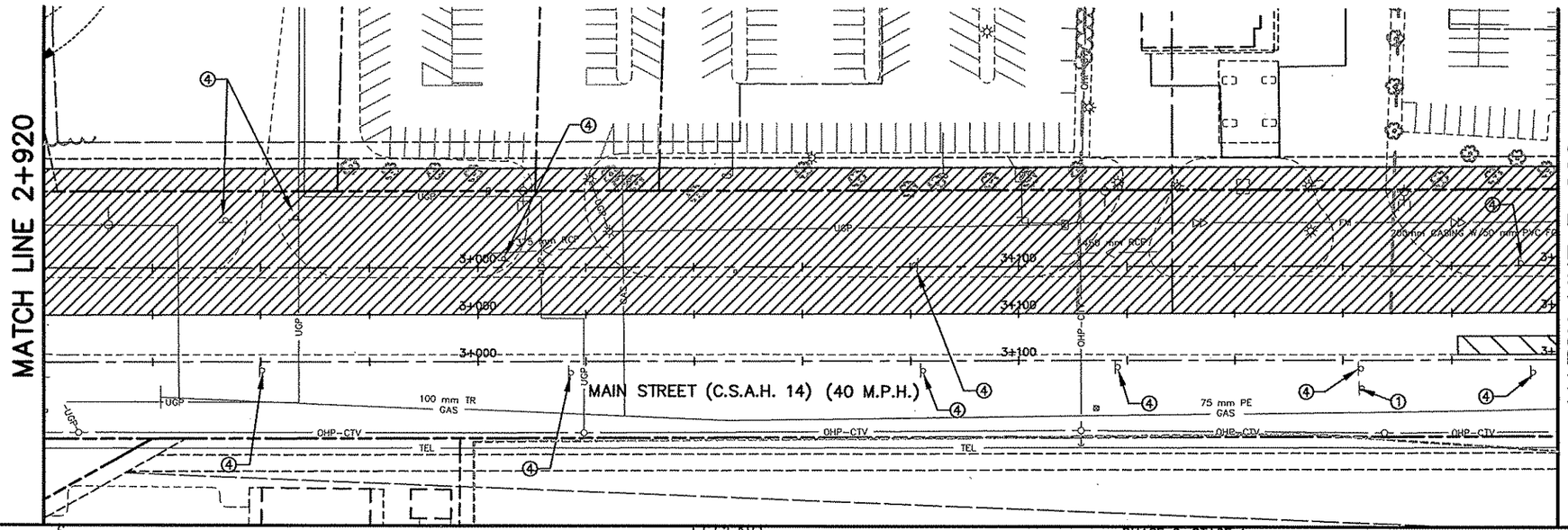
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

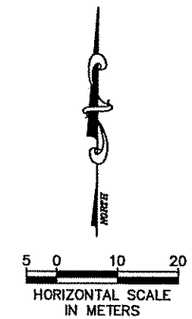
SHEET NO. 73 / 539

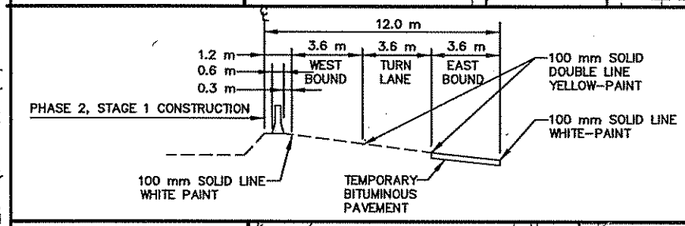
PLOT DATE: Jan 2_,000 3:45pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh_RAF-CON\Tcp1s103.dwg

F DRAWINGS
'BOX
'IPWPIS
'PLNW
'-ALIW
'-ESUM
'MHVEG
'MHETO
'-F



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 2, STAGE 1)





LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

PHASE 2, STAGE 1:

GENERAL:

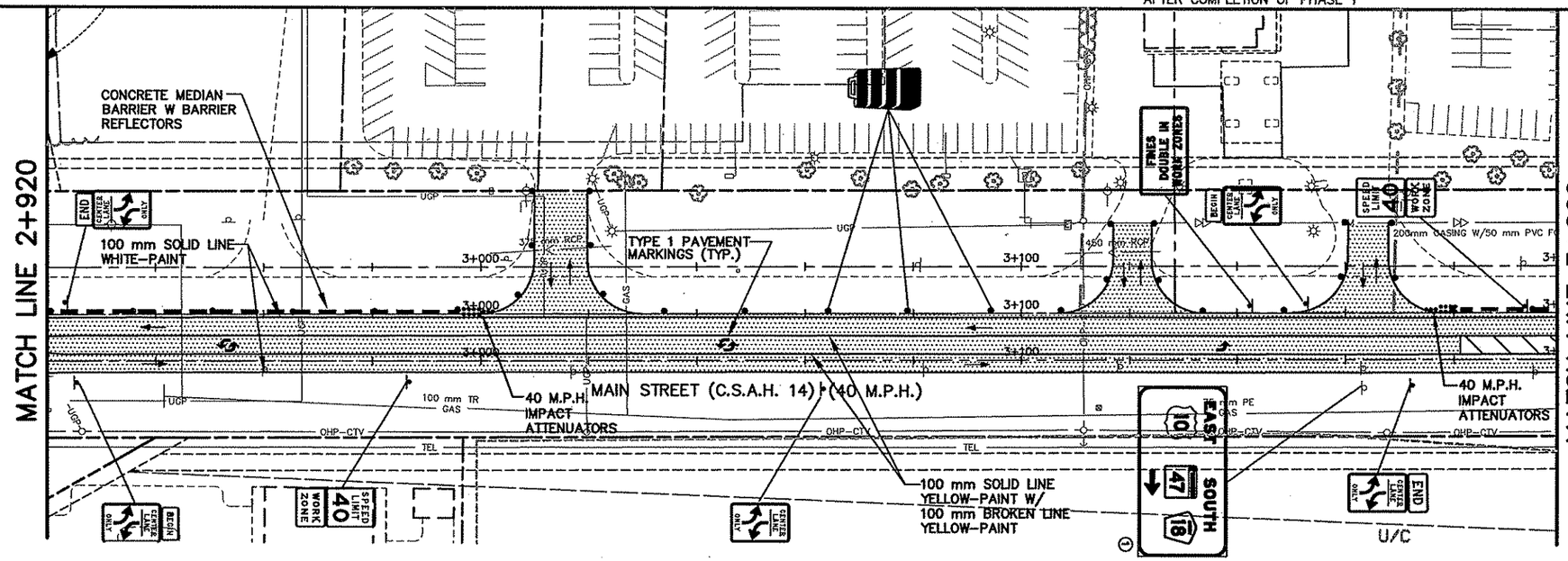
THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN THROUGHOUT PROJECT
- E.B. T.H. 10/47 ON RAMP D WILL REMAIN OPEN
- MAIN STREET (C.S.A.H. 14/T.H. 242) IS CONTINUOUS AND TWO–WAY
- TRAFFIC ON SOUTHERLY HALF OF INPLACE AND NEW ROADWAY
- W.B. T.H. 10/47 OFF AND ON RAMPS A AND B ARE OPEN AFTER COMPLETION OF PHASE 1

CONSTRUCTION:

- RAMP C
- NORTH HALF MAIN STREET (C.S.A.H. 14) BETWEEN ROUND LAKE BLVD. AND T.H. 10/47



TRAFFIC CONTROL (PHASE 2, STAGE 1)

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

22 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCP1S104
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION MAIN STREET (C.S.A.H. 14)

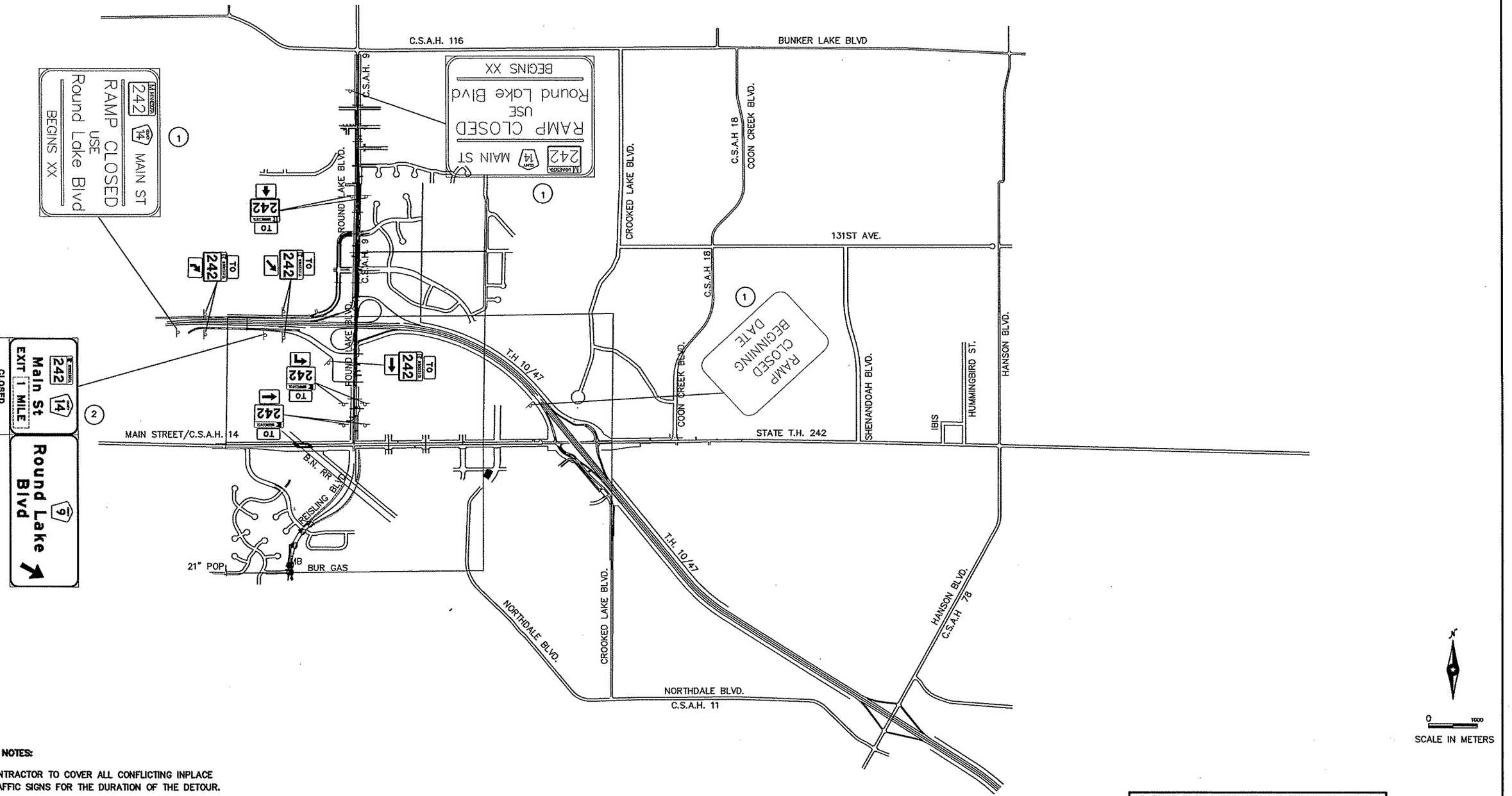
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+920.000 TO STA. 3+200.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 74 / 539

PLOT DATE: Jan 2, 2000 8:44am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh...\RAF–CON\Top1s104.dwg



GENERAL NOTES:

1. CONTRACTOR TO COVER ALL CONFLICTING INPLACE TRAFFIC SIGNS FOR THE DURATION OF THE DETOUR.

SPECIFIC NOTES:

(1) INSTALL 7 DAYS PRIOR TO BEGINNING CONSTRUCTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

△1

22A OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND △1 ADD'L ADV. SIGNING SHEET FOR P4, S1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: 242SGD02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Fields

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TRAFFIC CONTROL LAYOUT
ADVANCED SIGNING / DETOUR PLAN
PHASE 2, STAGE 1

CITY PROJECT 98-20

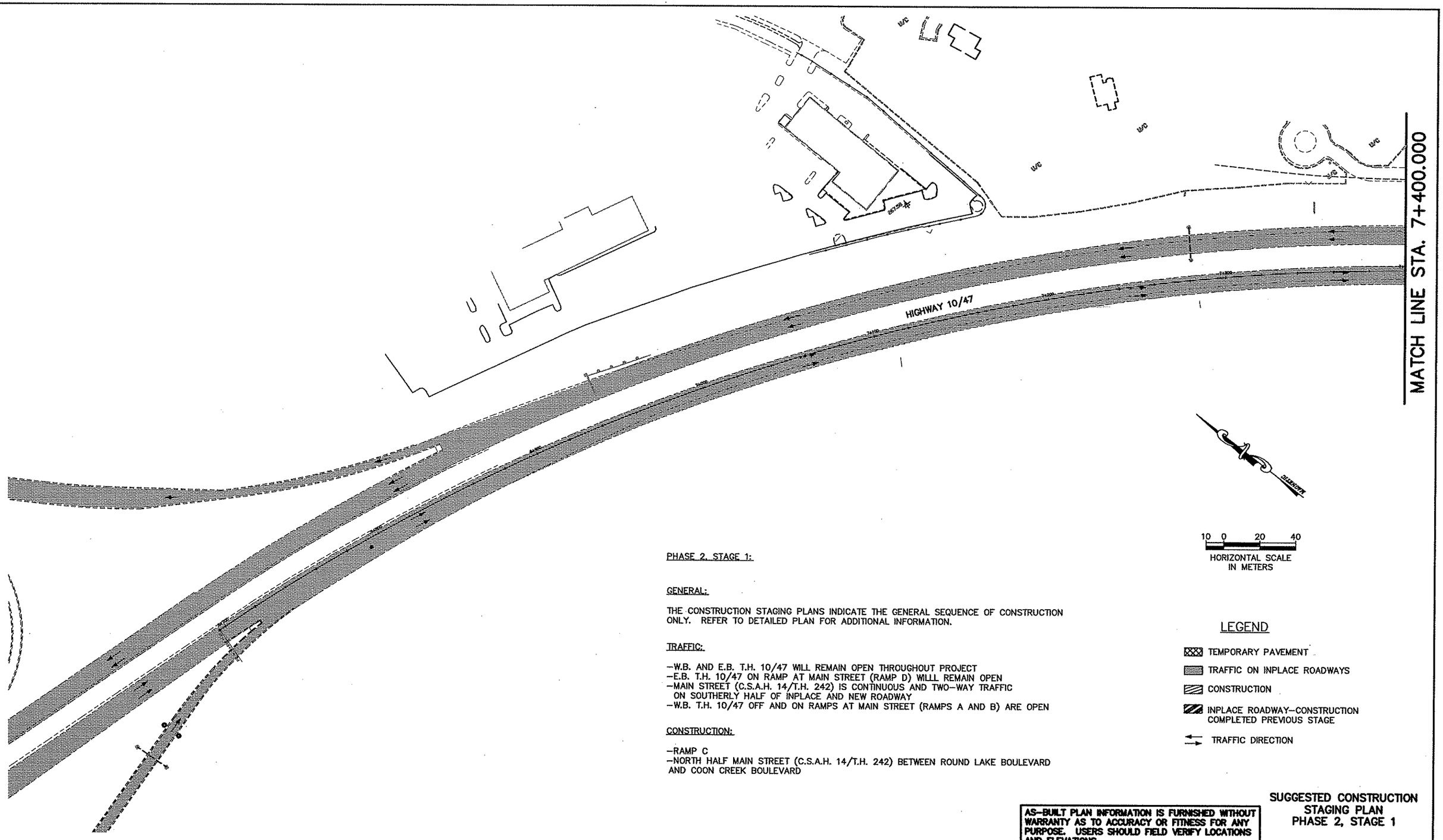
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 74A / 539

PLOT DATE: Aug 1, 04 9:19am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH AF-CON\242sgd02.dwg

REF DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO



10 0 20 40
HORIZONTAL SCALE
IN METERS

PHASE 2, STAGE 1:

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO DETAILED PLAN FOR ADDITIONAL INFORMATION.

TRAFFIC:

-W.B. AND E.B. T.H. 10/47 WILL REMAIN OPEN THROUGHOUT PROJECT
-E.B. T.H. 10/47 ON RAMP AT MAIN STREET (RAMP D) WILLL REMAIN OPEN
-MAIN STREET (C.S.A.H. 14/T.H. 242) IS CONTINUOUS AND TWO-WAY TRAFFIC ON SOUTHERLY HALF OF INPLACE AND NEW ROADWAY
-W.B. T.H. 10/47 OFF AND ON RAMPS AT MAIN STREET (RAMPS A AND B) ARE OPEN

CONSTRUCTION:

-RAMP C
-NORTH HALF MAIN STREET (C.S.A.H. 14/T.H. 242) BETWEEN ROUND LAKE BOULEVARD AND COON CREEK BOULEVARD

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY-CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN
PHASE 2, STAGE 1

23 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S105B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
CONSTRUCTION STAGING PLAN
STA. 6+700.000 TO STA. 7+400.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 75 / 539

PLOT DATE: Dec 4, 1999 1:10pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SI...\AF-CON\Tcp1s105B.dwg

XREF DRAWINGS

:APBOX
:42E-ALI
:42E-PLN
:42MHETO

REMOVE CONFLICTING PAINT MARKING
REMOVALBE PREFORMED PLASTIC MARKI

SPEED TO 1 ℄ TAPER
(1.006 m LANE SHIFT)
1.006 m x 65 M.P.H. = 66 m

100 mm SOLID LINE YELLOW-RPPM
100 mm SOLID LINE WHITE-RPPM
100 mm BROKEN LINE WHITE-RPPM

END ROAD WORK ⑤

HIGHWAY 10/47 (65 M.P.H.)

300 m
300 m
300 m

ROAD WORK AHEAD ⑤
RAMP CLOSED AHEAD ⑤
LANES NARROW ⑤
NO SHOULDER ⑤

MATCH LINE STA. 7+400.000

Main St
Hanson Blvd
Foley Blvd
CLOSED
BLACK ON ORANGE OVERLAY

10 0 20 40
HORIZONTAL SCALE IN METERS

LEGEND

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL
TRAFFIC ON INPLACE ROADWAYS
TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL (PHASE 2, STAGE 1)

24 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCP1S105A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 6+700.000 TO STA. 7+400.000

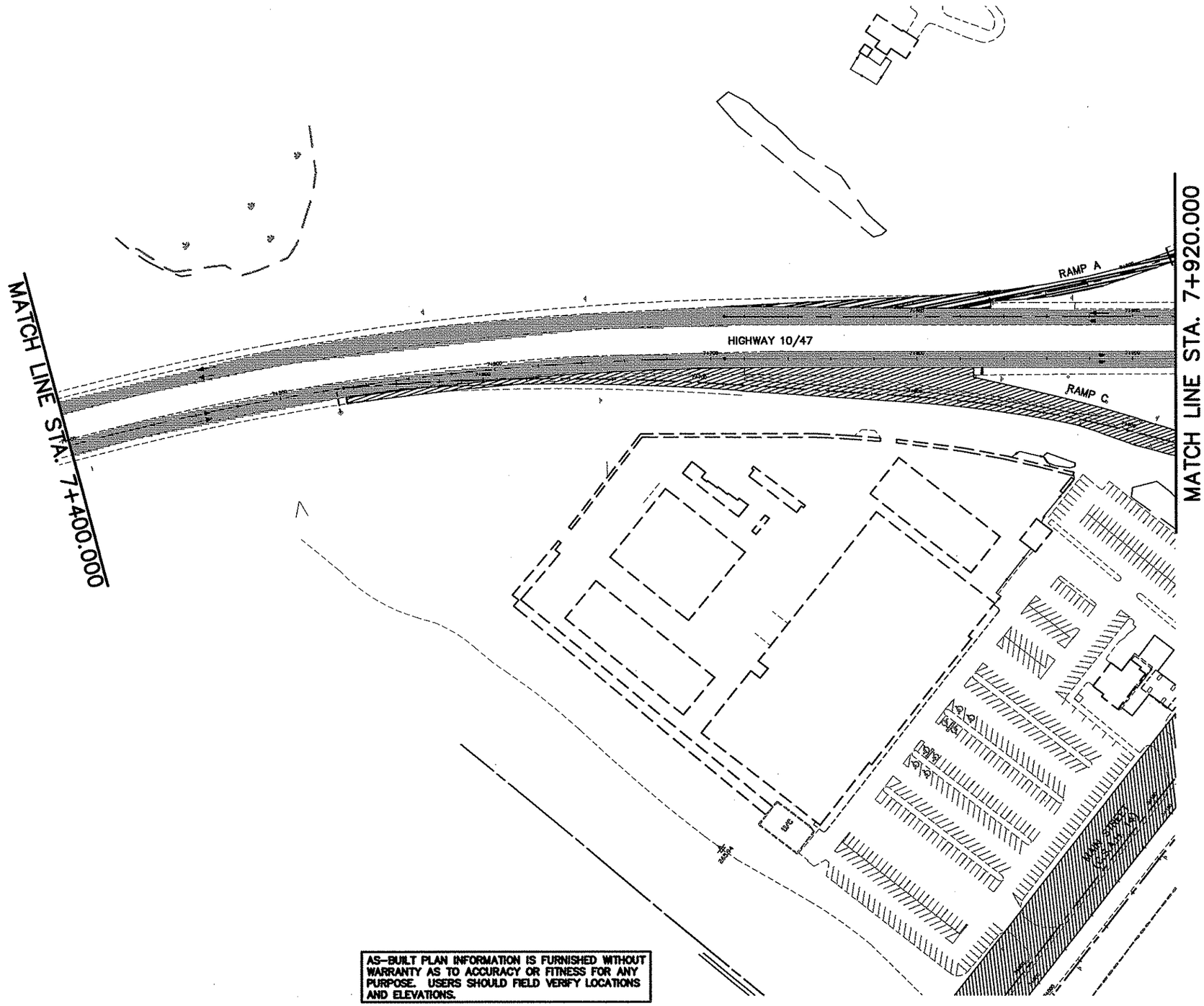
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 76 / 539

PLOT DATE: Jan 4, 000 8:47am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_St...\RAF-CON\Tcp1s105A.dwg

APBOX
42E--AL I
42E--PLN
42MHETO



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 2, STAGE 1)

25 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCP1S111B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HWY. 10/47 & MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING PLAN
STA. 7+400.000 TO STA. 7+920.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 77 / 539

PLOT DATE: Aug 12, 2004 5:34pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...,RAF-CON\Tcp1s111B.dwg

APBOX
42E-ALI
42E-PLN
42MHETO

REMOVE CONFLICTING PAINT MARKING
REMOVALBE PREFORMED PLASTIC MARKING

SPEED TO 1 ℄ TAPER
(1.006 m LANE SHIFT)
1.006 m x 65 M.P.H. = 66 m

SPEED TO 1 ℄ TAPER
(1.006 m LANE SHIFT)
1.006 m x 65 M.P.H. = 66 m

100 mm SOLID LINE
YELLOW-RPPM

100 mm SOLID LINE
WHITE-RPPM

100 mm BROKEN LINE
WHITE-RPPM

MATCH LINE STA. 7+400.000

MATCH LINE STA. 7+920.000

RAMP A

RAMP C

BEGIN 3.35 m LANES

3.35 m LANES

HIGHWAY 10/47 (65 M.P.H.)

CONCRETE MEDIAN
BARRIER W/ BARRIER
REFLECTORS

65 M.P.H.
IMPACT ATTENUATORS
(TYP.)

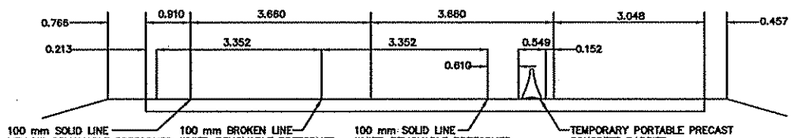
242 14 Main St

BLACK ON ORANGE OVERLAY

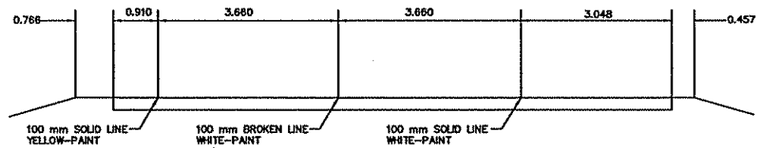
EXIT CLOSED

MAIN STREET (C.S.A.H. 14)

10 0 20 40
HORIZONTAL SCALE
IN METERS



PHASE 1 STAGE 1
℄ E.B. 10/47 INP



EXISTING
℄ E.B. 10/47

LEGEND

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL
(PHASE 2, STAGE 1)

26 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S111A
DATE: NOVEBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 7+400.000 TO STA. 7+920.000

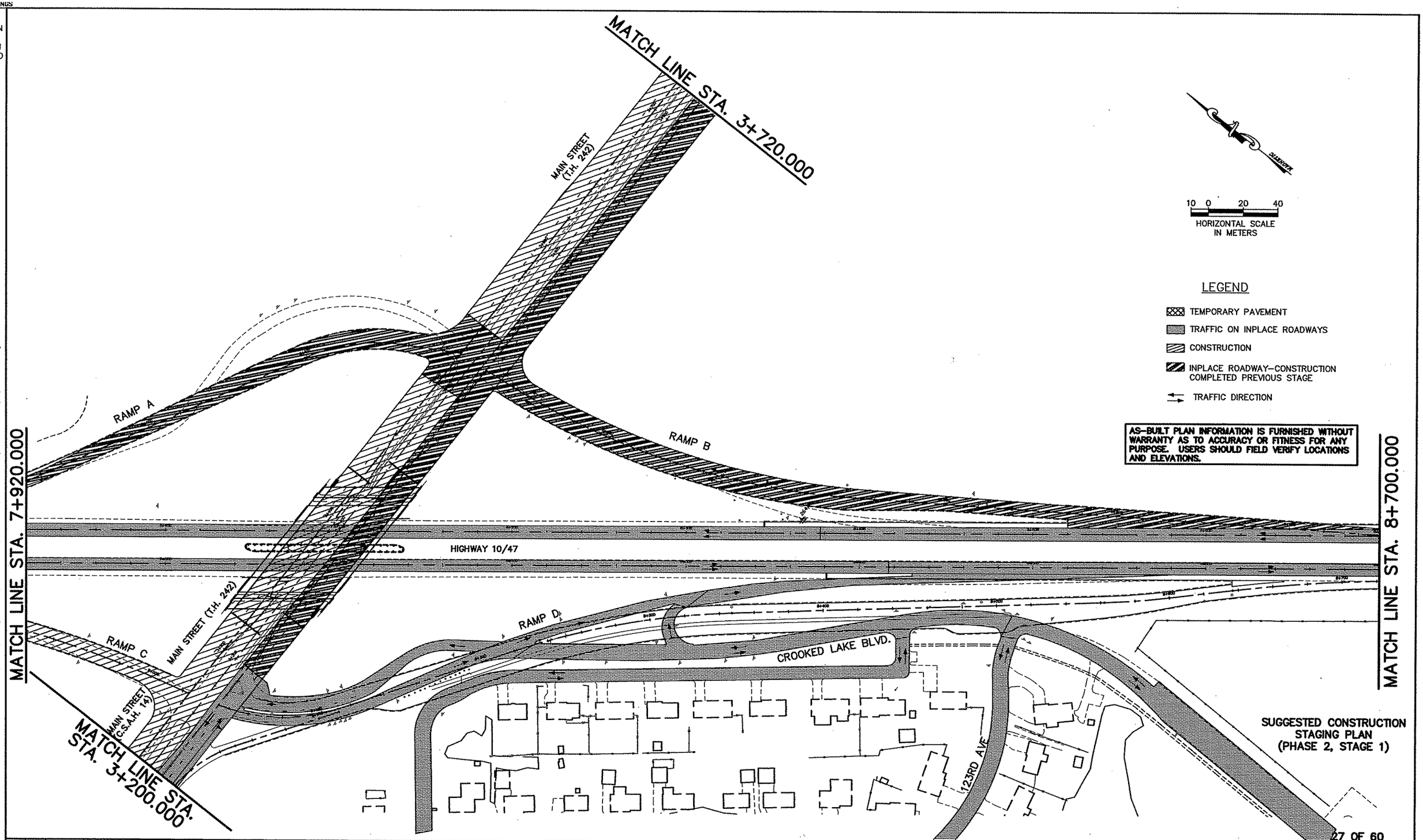
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 78 / 539

PLOT DATE: Aug 12, 2004 5:33pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...rAF-CON\Tcp1s111A.dwg

XREF DRAWINGS
:CNP2S1
:42E-PLN
:APBOX
:42E-AL1
:42MHETO



10 0 20 40
HORIZONTAL SCALE IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 2, STAGE 1)

27 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S10B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION HIGHWAY 10/47 AND MAIN STREET

CONSTRUCTION STAGING PLAN
STA. 7+920.000 TO STA. 8+700.000
STA. 3+200.000 TO STA. 3+720.000

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 79 / 539

PLOT DATE: Jan 2..2000 8:51am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh...\RAF-CON\Tcp1s10B.dwg

REF DRAWINGS

42E-PLN
APBOX
42E-ALI
42MHETO

MATCH LINE STA. 3+720.000

MAIN STREET (T.H. 242)

CONCRETE MEDIAN BARRIER W/ BARRIER REFLECTORS

40 M.P.H. IMPACT ATTENUATORS (TYP.)

SIGNAL

RAMP A

RAMP B

RAMP C

RAMP D

MAIN STREET (C.S.A.H. 14)

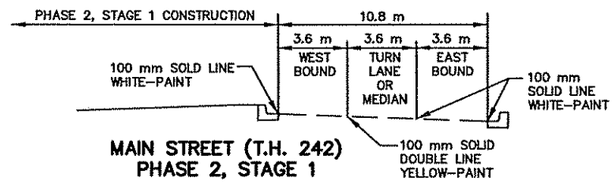
65 M.P.H. IMPACT ATTENUATORS (TYP.)

HIGHWAY 10/47 (65 M.P.H.)

MATCH LINE STA. 7+920.000

MATCH LINE STA. 3+200.000

MATCH LINE STA. 8+700.000



MAIN STREET (T.H. 242)
PHASE 2, STAGE 1
STA. 3+200 TO 4+000

10 0 20 40
HORIZONTAL SCALE IN METERS

LEGEND

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL
TRAFFIC ON INPLACE ROADWAYS
TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL (PHASE 2, STAGE 1)

28 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/98	ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S10A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P. Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47 AND MAIN STREET
HIGHWAY 10/47 AND MAIN STREET
STA. 7+920.000 TO STA. 8+700.000
STA. 3+200.000 TO STA. 3+720.000

CITY PROJECT 98-20

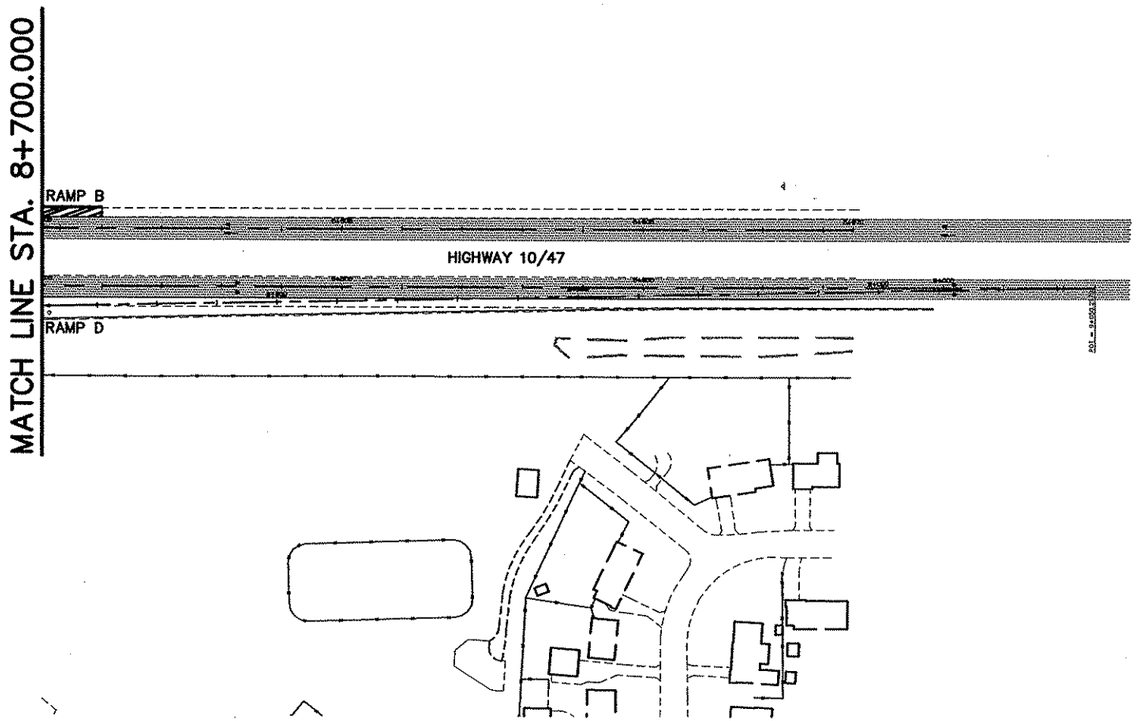
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

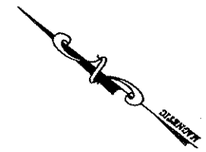
SHEET NO. 80 / 539

PLOT DATE: Jan 2, 2000 8:55am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh...\TRAF-CON\Tcp1s10A.dwg

USE DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO





10 0 20 40
HORIZONTAL SCALE
IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY-CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 2, STAGE 1)

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD
DWG. NAME: TCP1S102B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
CONSTRUCTION STAGING PLAN
STA. 8+700.000 TO STA. 9+050.000

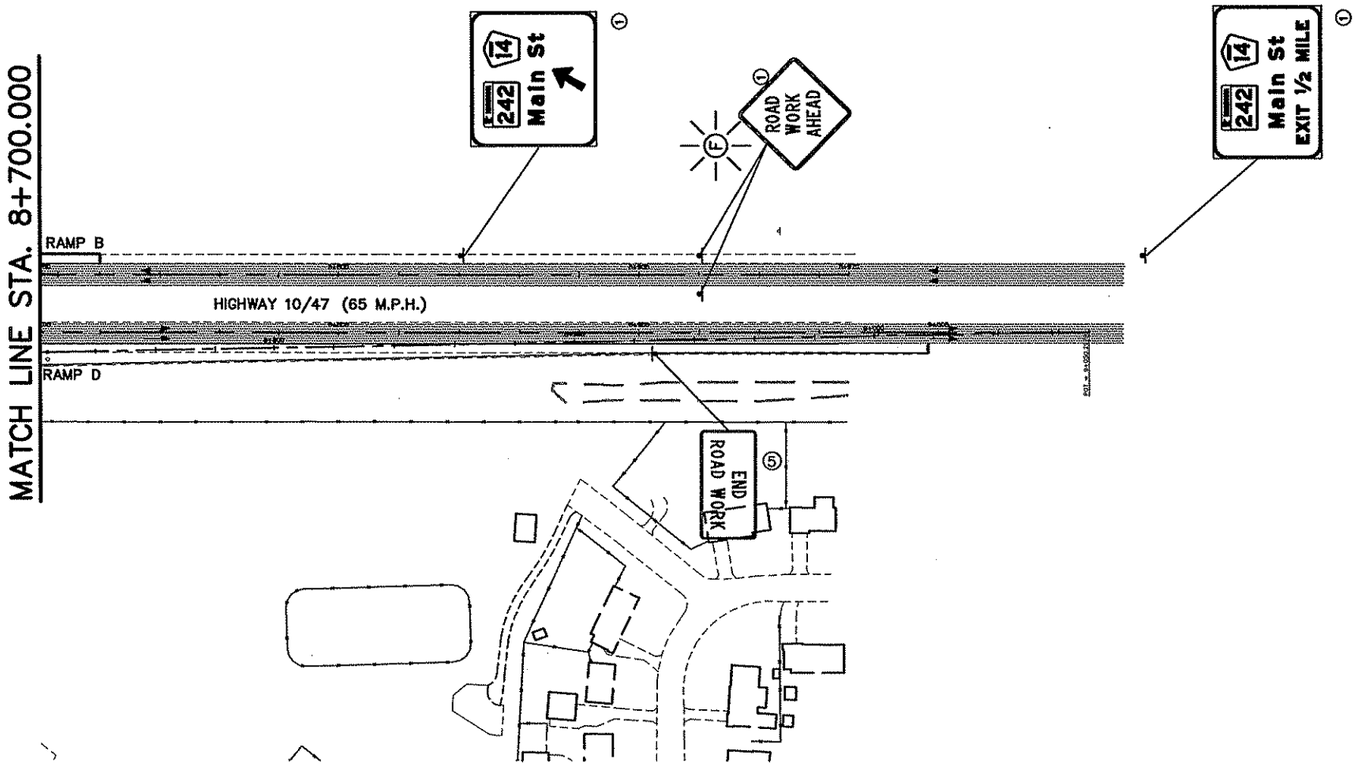
CITY PROJECT 98-20

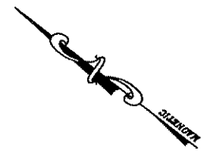
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 81 / 539

PLOT DATE: Dec ,999 1:15pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN...\RAF-CON\Tcp1s102B.dwg

:APBOX
:42E-ALI
:42E-PLN
:42MHETO





10 0 20 40
HORIZONTAL SCALE
IN METERS

LEGEND

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL
(PHASE 2, STAGE 1)

30 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD | DWG. NAME: TCP1S102A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 8+700.000 TO STA. 9+050.000

CITY PROJECT 98-20

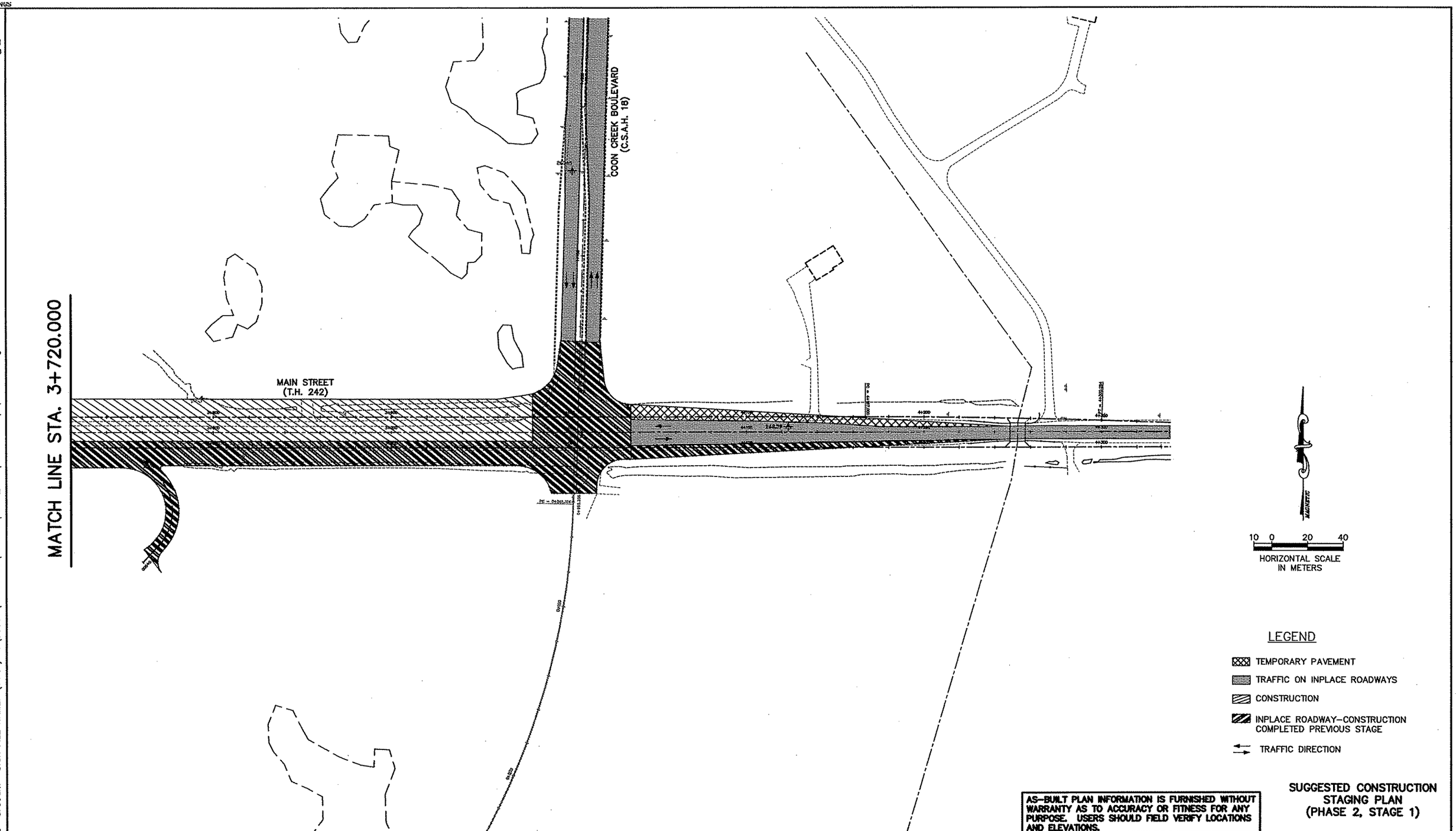
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 82 / 539

PLOT DATE: Aug 1 ...004 9:12am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_St...RAF-CON\Tcp1s102A.dwg

REF DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 2, STAGE 1)

31 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S103A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
CONSTRUCTION STAGING PLAN
STA. 3+720.000 TO STA. 4+350.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 83 / 539

PLOT DATE: Jan 21, 2000 8:59am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh-v\RAF-CON\Tcp1s103A.dwg

KRF DRAWINGS

:42E-PLN
:APBOX
:42E-ALI
:42MHETO

MATCH LINE STA. 3+720.000

REMOVE CONFLICTING PAVEMENT MARKING
PAINT PAVEMENT MARKINGS

COON CREEK BOULEVARD

CONCRETE "J" BARRIER W/ BARRIER REFLECTORS

MAIN STREET (T.H. 242)

NO SHOULDER

ROAD WORK AHEAD

ONLY

ROAD CLOSED

SPEED LIMIT 40 WORK ZONE

REMOVE CONFLICTING PAVEMENT MARKING
PAINT PAVEMENT MARKINGS

100 mm SOLID LINE WHITE-PAINT

SIGNAL

100 mm SOLID LINE WHITE-PAINT

ONLY ONE LANE ONLY

Coon Creek Blvd 18

ROAD WORK AHEAD

JCT 10 47 1/2 MILE

50 : 1

40 M.P.H. IMPACT ATTENUATORS (TYP.)

100 mm SOLID LINE WHITE-PAINT

100 mm SOLID LINE WHITE-PAINT

100 mm SOLID LINE YELLOW-PAINT

ROAD WORK AHEAD

END ROAD WORK

SOUTH 47 NORTH

EAST 10 WEST

COON CREEK BLVD 18

10 0 20 40
HORIZONTAL SCALE IN METERS

LEGEND

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL
TRAFFIC ON INPLACE ROADWAYS
TRAFFIC DIRECTION

PHASE 2, STAGE 1 CONSTRUCTION — 10.8 m

3.6 m	3.6 m	3.6 m
WEST BOUND	TURN LANE OR MEDIAN	EAST BOUND

100 mm SOLD LINE WHITE-PAINT

100 mm SOLID LINE WHITE-PAINT

100 mm SOLID DOUBLE LINE YELLOW-PAINT

MAIN STREET (T.H. 242)
PHASE 2, STAGE 1
STA. 3+200 TO 4+000

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL
(PHASE 2, STAGE 1)

32 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED D/W AT 3+852.540
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S103B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

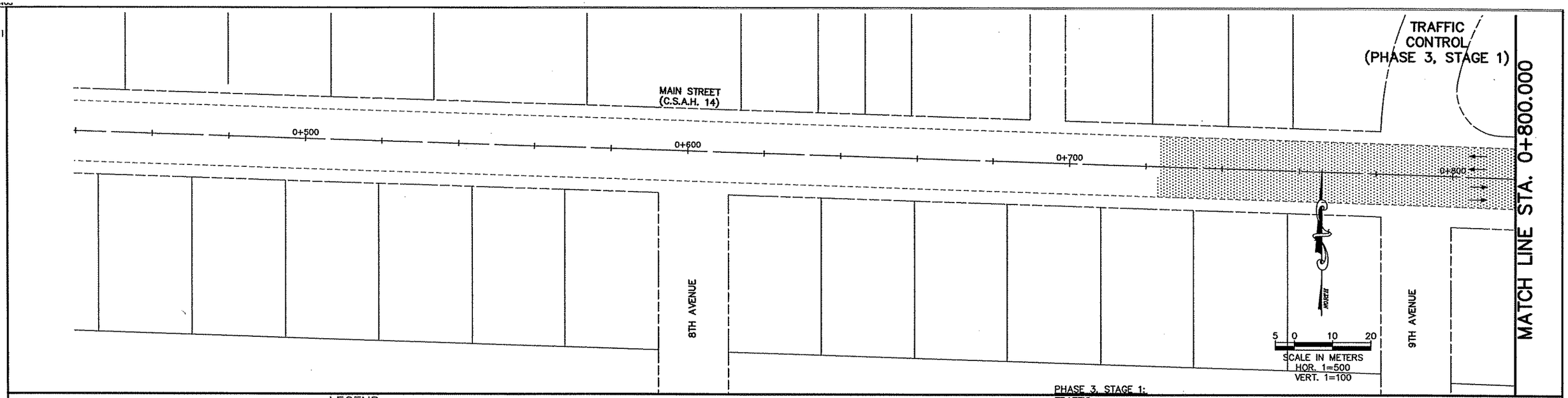
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
TRAFFIC CONTROL PLAN
STA. 3+720.000 TO STA. 4+350.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 84 / 539

PLOT DATE: Jan 21, 2000 9:00am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\TRAF-CON\Top1s103B.dwg



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET / T.H. 242
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

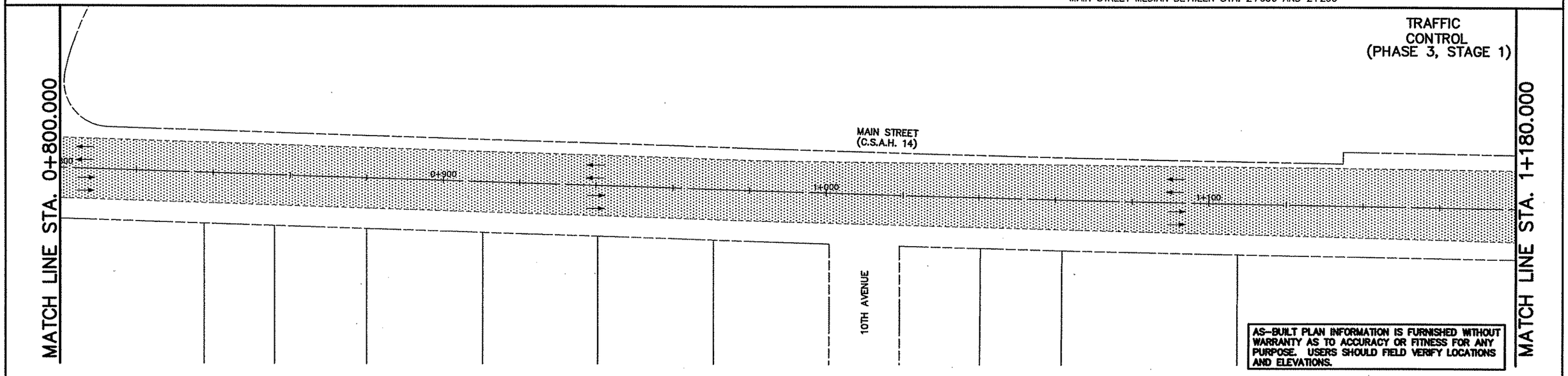
PHASE 3, STAGE 1:

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14/T.H. 242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H. 14/T.H. 242) E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200



AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

33 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S108A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 0+660.000 TO STA. 1+180.000

CITY PROJECT 98–20

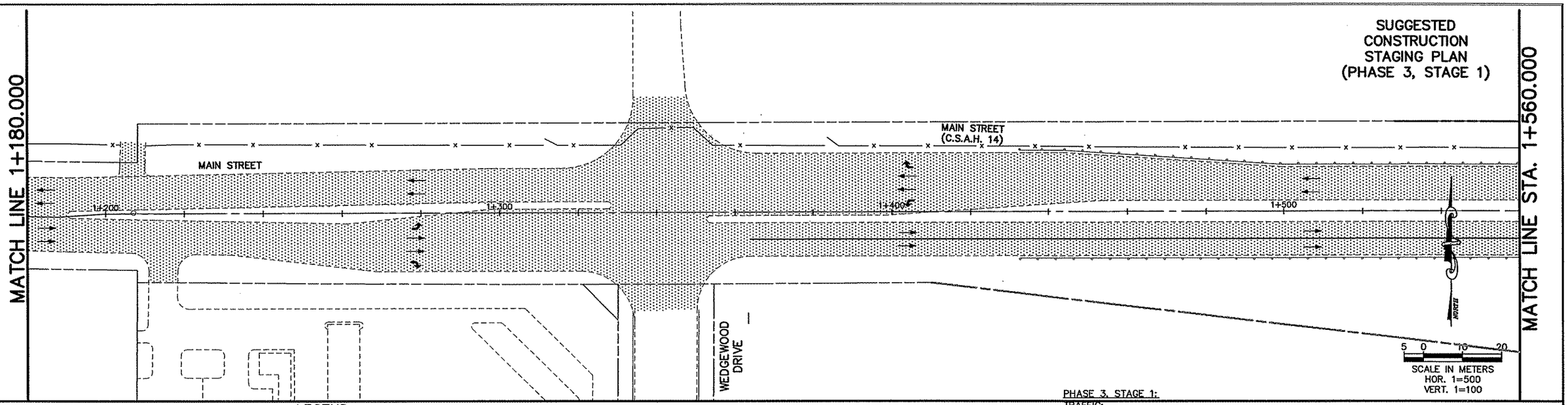
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 85 / 539

PLOT DATE: Aug 1, ...J04 5:30pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SI...\AF–CON\Tcp2si08A.dwg

BOX
IPWP2SI
-ALIW
-ESUM
MHVEG
MHETO
-EUT

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1)



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

PHASE 3, STAGE 1: (SUBSTAGE A)

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1:

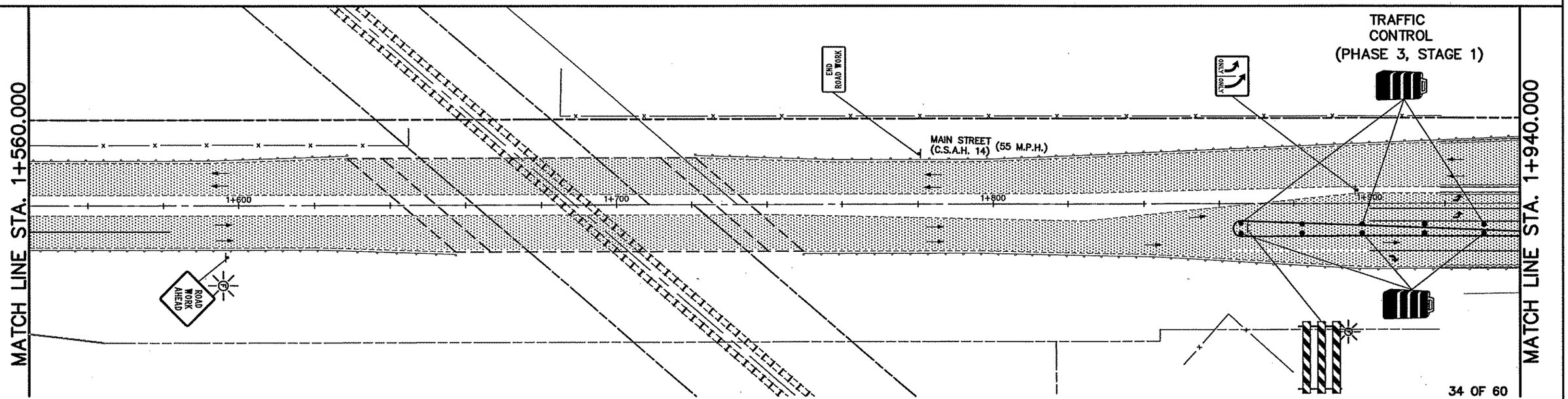
TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14/T.H. 242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H. 14/T.H. 242) E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

TRAFFIC CONTROL (PHASE 3, STAGE 1)



34 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S107A
DATE: NOVEMBER 5, 1999

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 1+180.000TO STA. 1+940.000

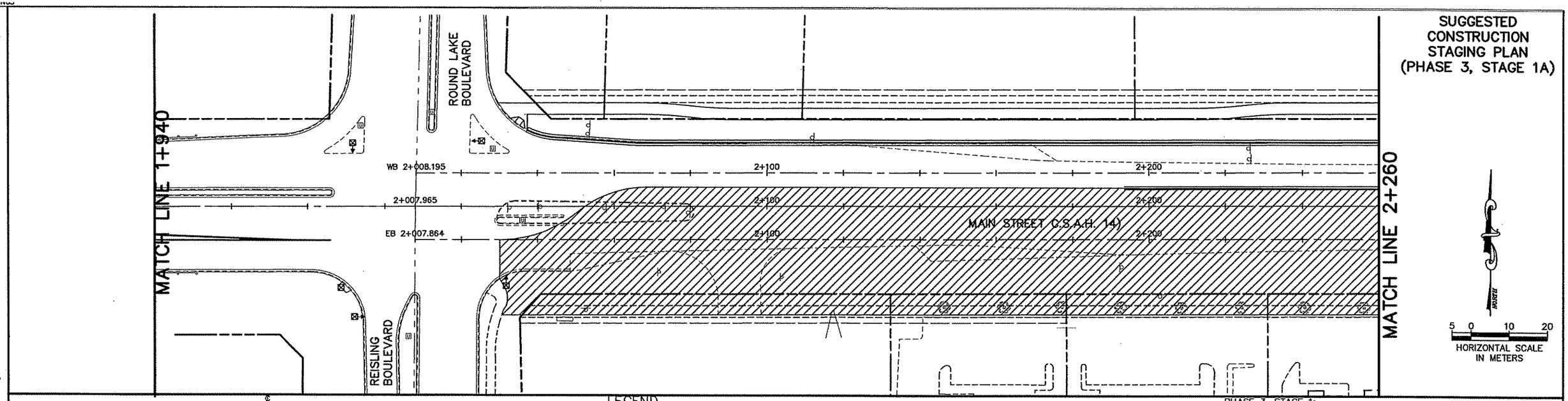
CITY PROJECT 98–20

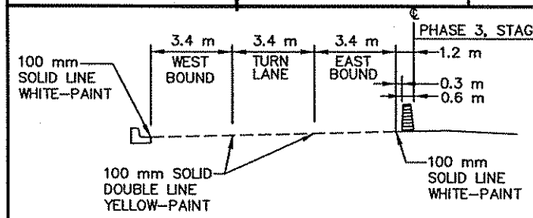
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 86 / 539

PLOT DATE: Aug 1_,_304 5:29pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh_...XAF–CON\Tcp2s107A.DWG

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1A)





LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1:

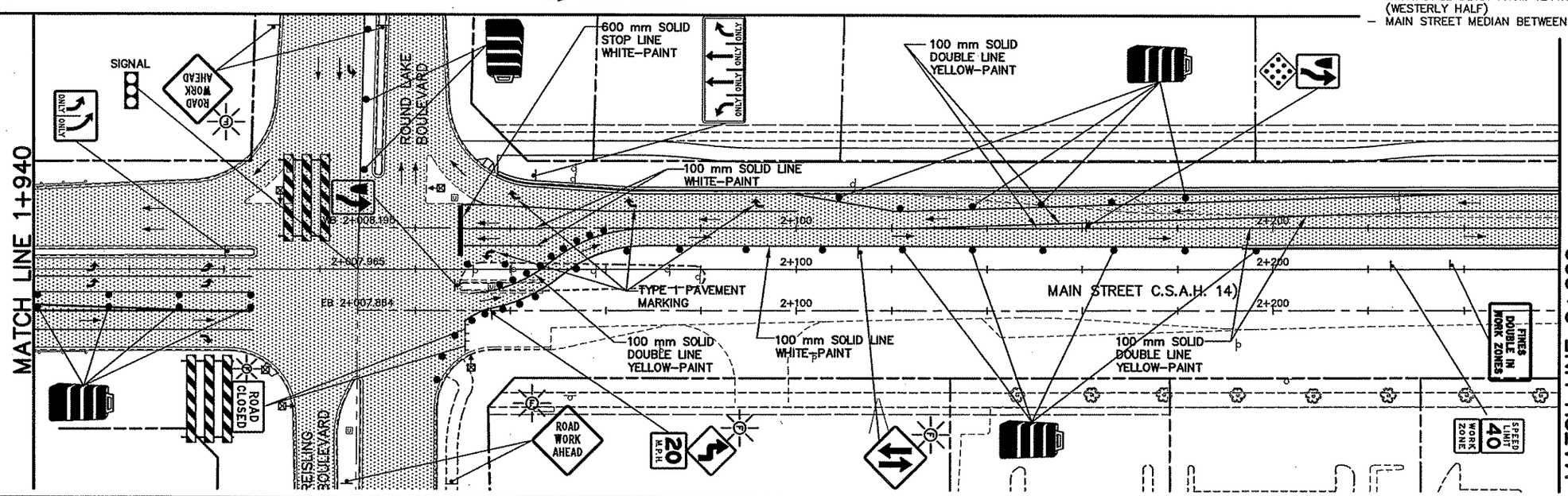
TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H.14/T.H.242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H.14/T.H.242) E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

TRAFFIC CONTROL (PHASE 3, STAGE 1A)



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	KPK	7/24/00	MOD.REQ. #44A: ADDITIONAL STAGE 1A
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S101Z
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1376 (FAX)

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Kevin P Fiedler

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 1+940.000 TO STA. 2+260.000

CITY PROJECT 98–20

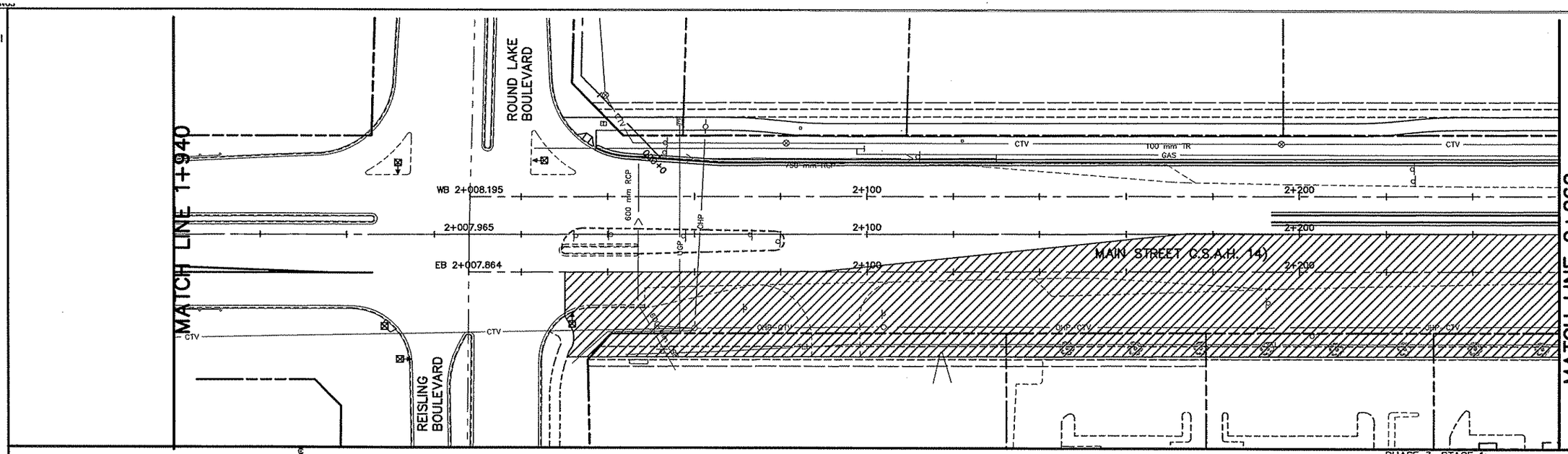
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

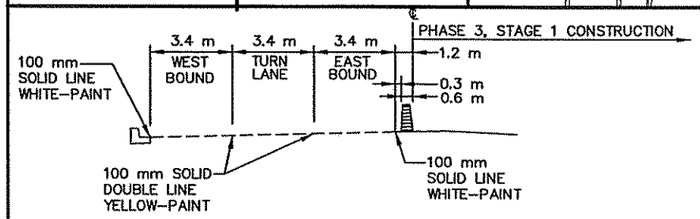
SHEET NO. 86A / 539

PLOT DATE: Aug 12, 2004 5:29pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHEET\RAF–CON\Tcp2s101z.dwg

PLOT DATE: Aug 1_,_004 5:24pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_St_...RAF-CON\Tcp2s101.dwg

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1A)





LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1:

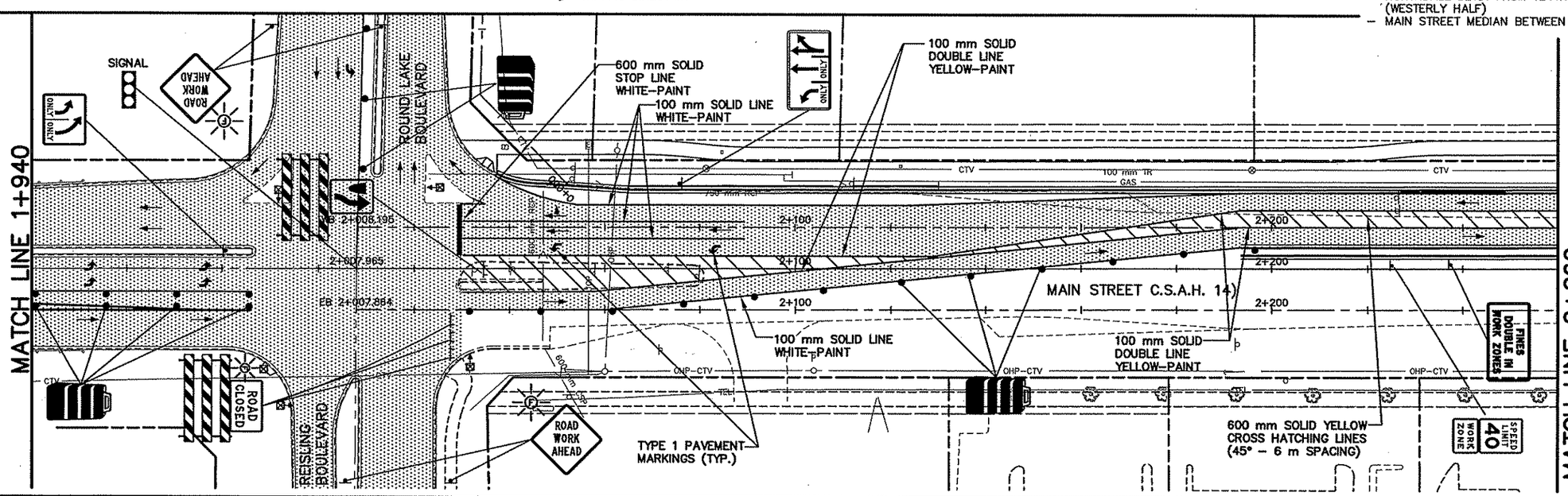
TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H.14/T.H.242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H.14/T.H.242) E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

TRAFFIC CONTROL (PHASE 3, STAGE 1A)



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S101
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION MAIN STREET (C.S.A.H. 14)

CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 1+940.000 TO STA. 2+260.000

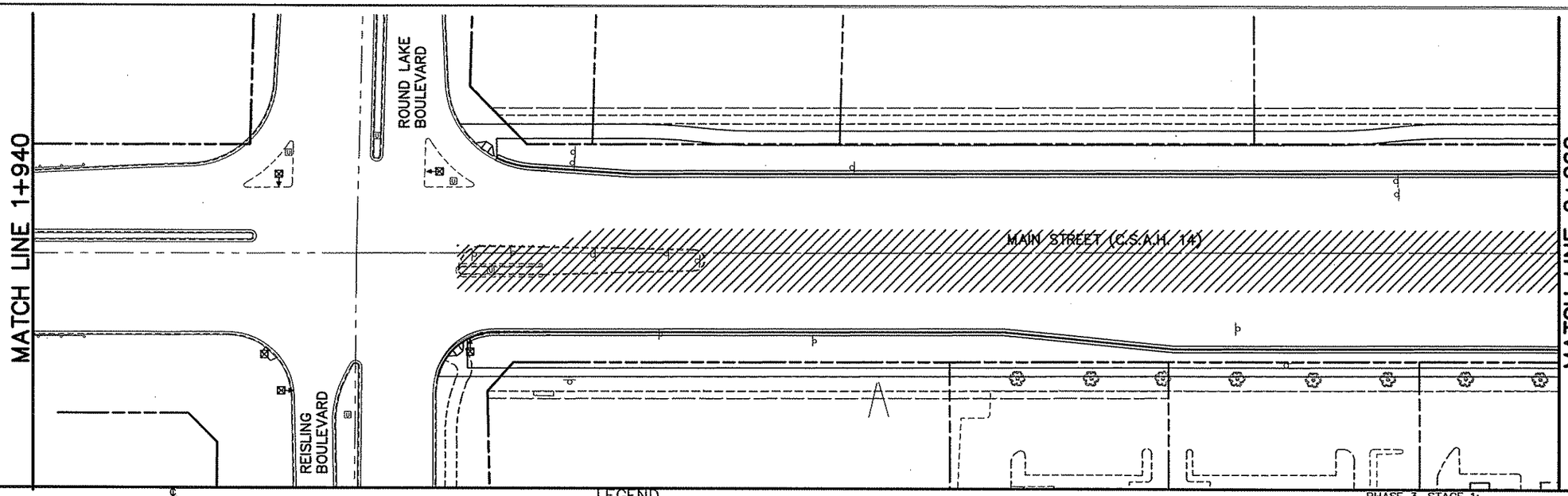
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

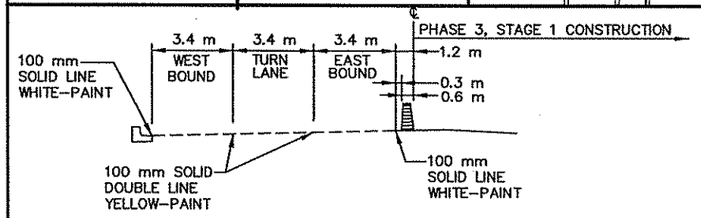
SHEET NO. 87 / 539

-EUT
BOX
PLNW
-ALW
-ESUM
MHVEG
MHETO

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1A)



5 0 10 20
HORIZONTAL SCALE IN METERS



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1:

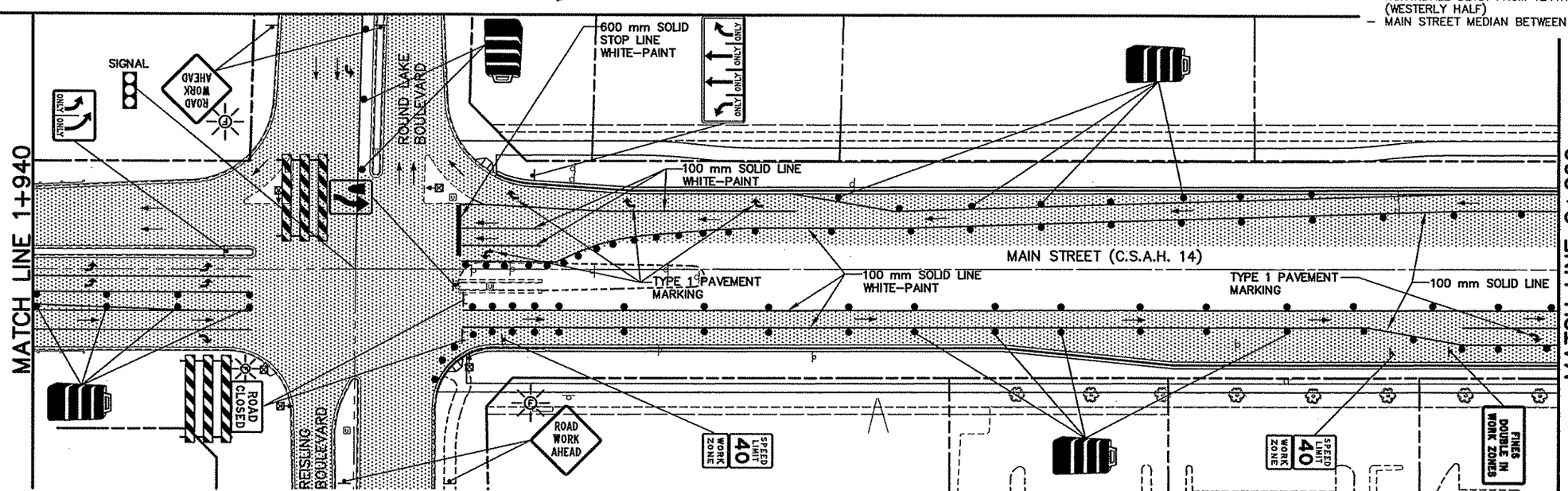
TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H.14/T.H.242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H.14/T.H.242) E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

TRAFFIC CONTROL (PHASE 3, STAGE 1A)



34A OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	KPK	7/24/00	MOD.REQ. #44A; ADDITIONAL STAGE 1A
2	PMJ	10/05/00	MOD. REQ. #67; ADDED PHASE 3 STAGE 1A
3	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S101Y
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

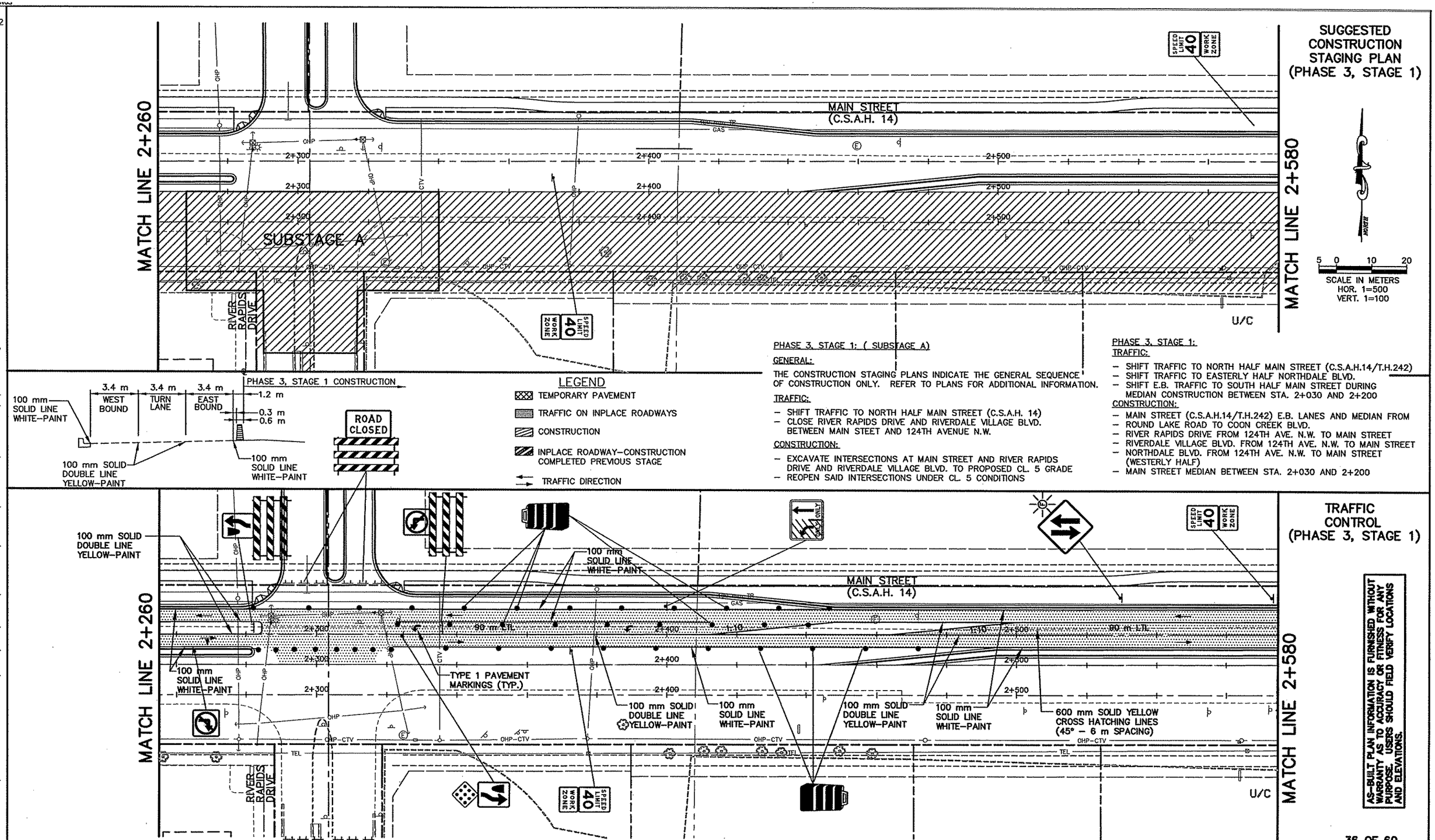
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 1+940.000 TO STA. 2+260.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 87A / 539

PLOT DATE: Aug 1, ...04 8:51am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh... ..\AF–CON\Tcp2s101Y.dwg



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1)

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1:

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H.14/T.H.242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H.14/T.H.242) E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

TRAFFIC CONTROL (PHASE 3, STAGE 1)

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S202
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+260.000 TO STA. 2+580.000

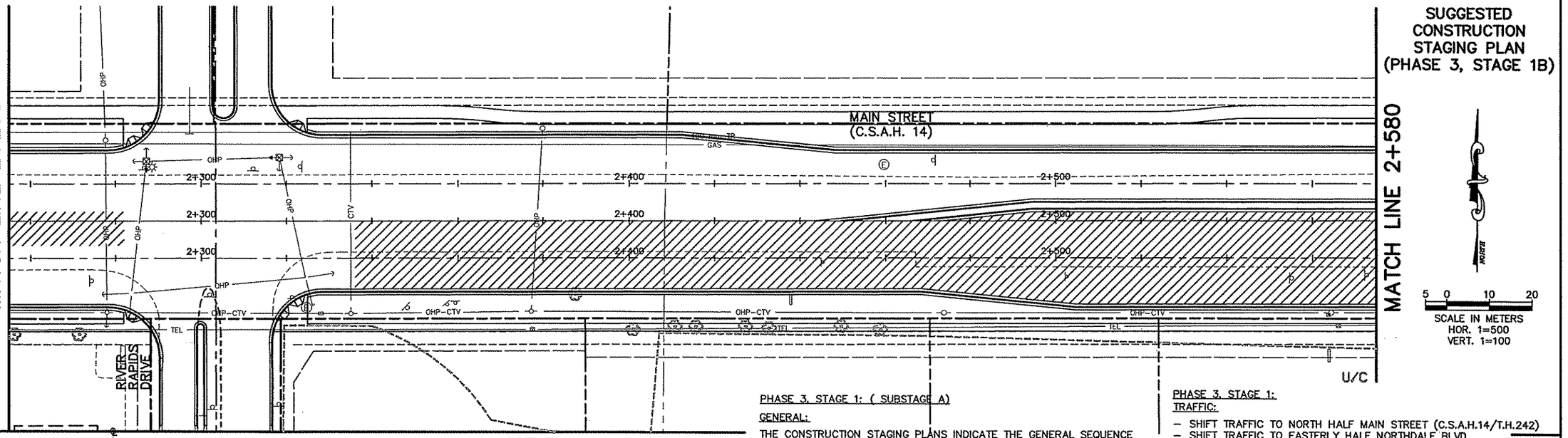
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 88 / 539

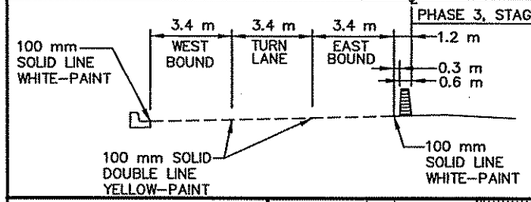
PLOT DATE: Aug 12, 2004 5:30pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\TCP2S202.dwg

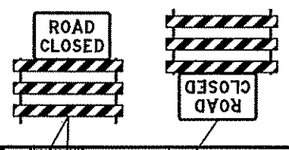
SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1B)



SCALE IN METERS
HOR. 1=500
VERT. 1=100

PHASE 3, STAGE 1 CONSTRUCTION





LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1:

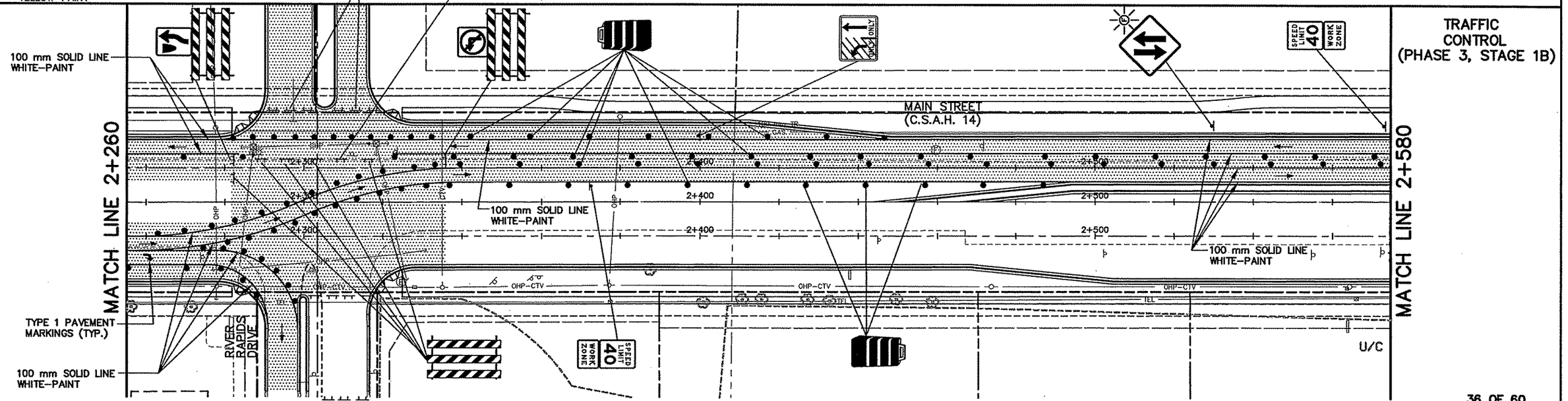
TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H.14/T.H.242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H.14/T.H.242) E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

TRAFFIC CONTROL (PHASE 3, STAGE 1B)



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	PMJ	10/05/00	MOD. REQ. #67: ADDED PHASE 3, STAGE 1B
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S202Y
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+260.000 TO STA. 2+580.000

CITY PROJECT 98-20

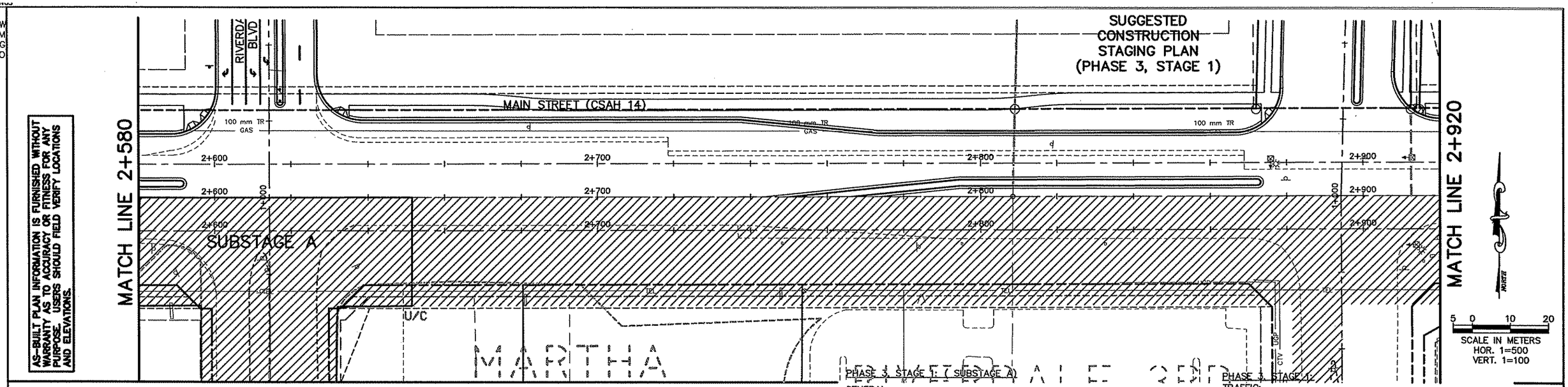
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 88A / 539

PLOT DATE: Aug 17, 2004 8:53am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHEETS\RAF-CON\Tcp2s202Y.dwg

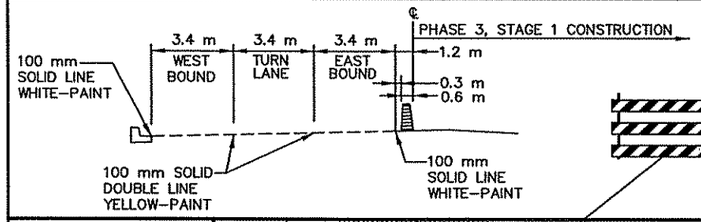
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242-ALIW
242-ESUM
242MHVEG
242MHETO
242-EUT

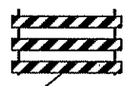
SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1)



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SCALE IN METERS
5 0 10 20
HOR. 1=500
VERT. 1=100





LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1: (SUBSTAGE B)

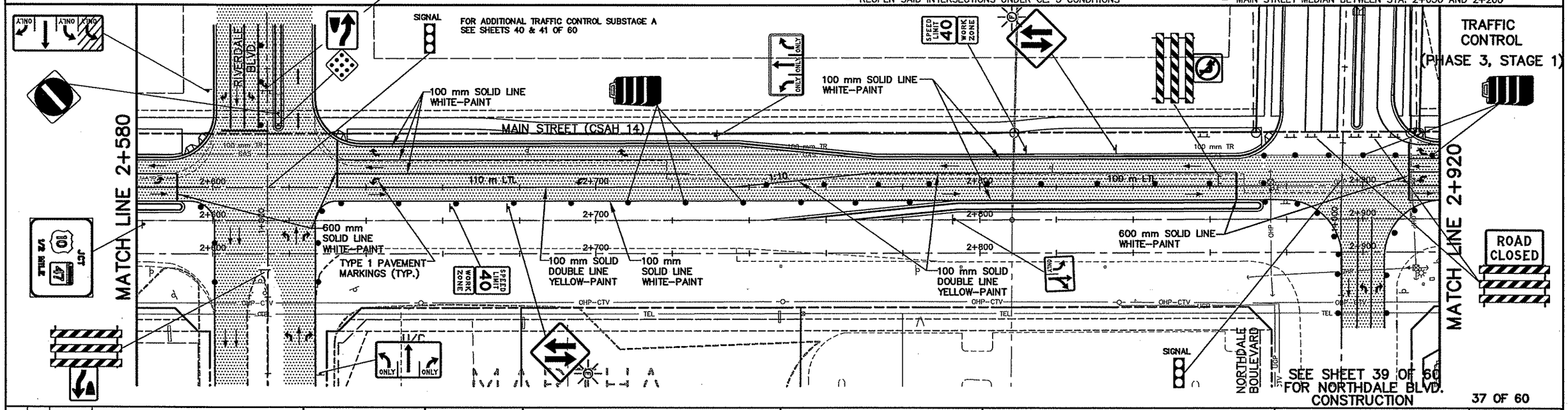
TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H.14/T.H.242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H.14/T.H.242) E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

TRAFFIC CONTROL (PHASE 3, STAGE 1)



37 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S203
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+580.000 TO STA. 2+290.000

CITY PROJECT 98-20

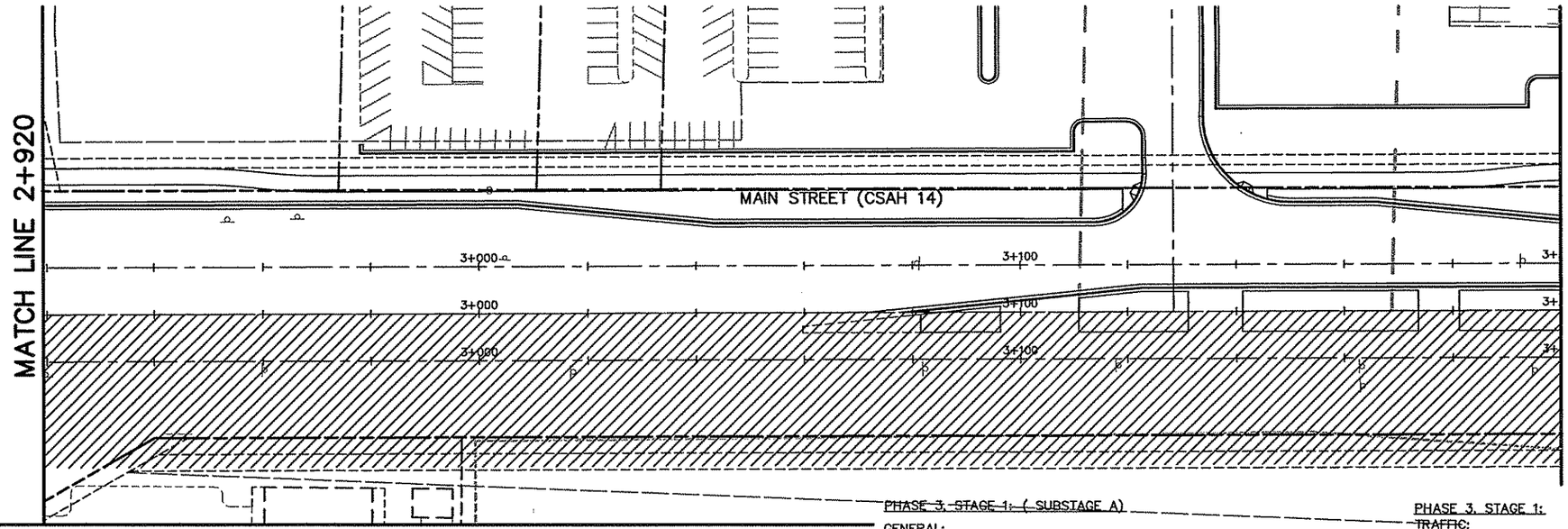
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 89 / 539

PLOT DATE: Aug 1 04 5:31pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SI ...AF-CON\Tcp2s203.dwg

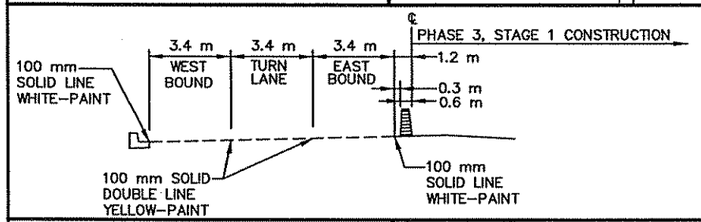
BOX
IPWP2S2
WP2S2
PLNW
-ALIW
-ESUM
MHVEG
MH
-(

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1)



5 0 10 20
SCALE IN METERS
HOR. 1=500

VERT. 1=100



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE BLVD. BETWEEN MAIN STREET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1:

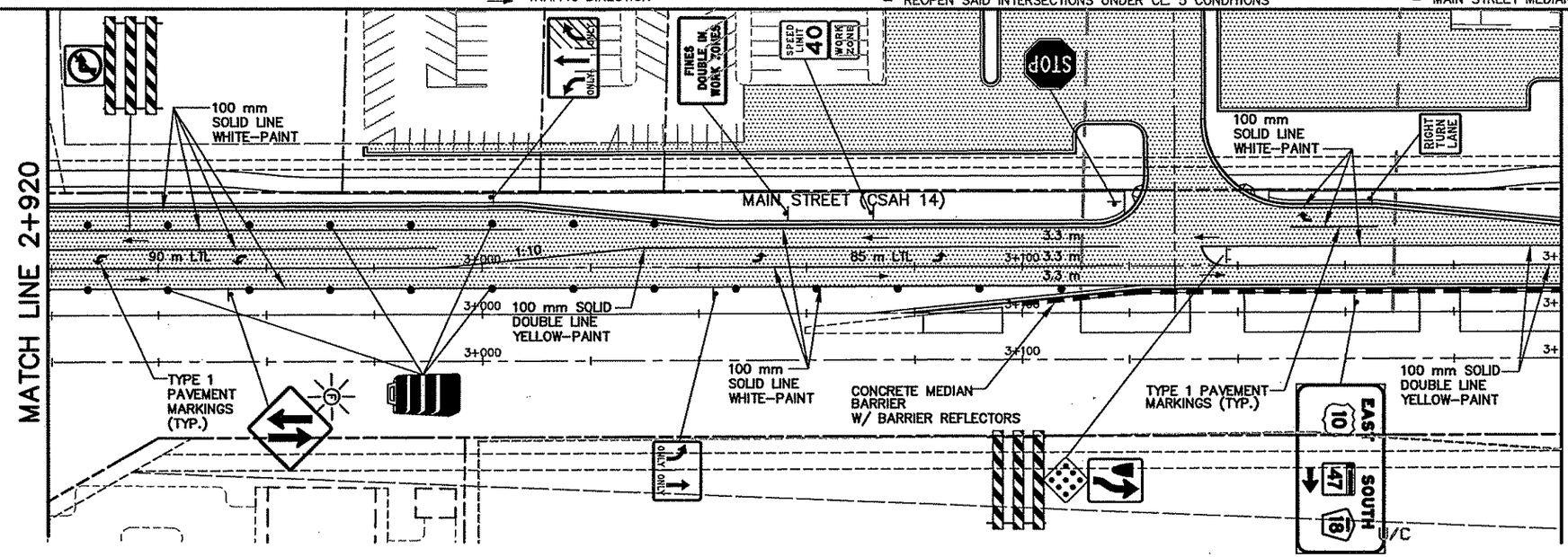
TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H.14/T.H.242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H.14/T.H.242) E.B. LANES AND MEDIAN FROM ROUND LAKE BLVD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

TRAFFIC CONTROL (PHASE 3, STAGE 1)



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	7/5/00	MOD. REQ. #36: REVISED MENARDS ENTRANCE
2	PMJ	7/24/00	MOD REQ. #44A: REVISED STAGE 3, PHASE 1
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S204
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Fiedler

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+920.000 TO STA. 3+200.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 90 / 539

PLOT DATE: Aug 1...2004 5:32pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_St...,RAF-CON\Tcp2s204.dwg

42E-PLN
APBOX
42E-ALI
42MHETO

TRAFFIC CONTROL (PHASE 3, STAGE 1)

5 0 10 20
HORIZONTAL SCALE IN METERS

MATCH LINE STA. 3+200.000

MATCH LINE STA. 3+580.000

RAMP C

RAMP A

RAMP B

HIGHWAY 10/47 (65

100 mm DOUBLE SOLID LINE YELLOW-PAINT

100 mm SOLID LINE WHITE-PAINT

100 mm SOLID LINE WHITE-PAINT

TYPE 1 PAVEMENT MARKING (TYP.)

90 m CENTERLINE CURVE RADIUS

SIGNAL

SIGNAL

WRONG WAY

DO NOT ENTER

DO NOT ENTER

ONLY

ONLY

ONLY

ONLY

ONLY

ONLY

ONLY

SPEED LIMIT 40 WORK ZONE

SPEED LIMIT 40 WORK ZONE

30 M.P.H.

WRONG WAY

ROAD CLOSED

110 m LTL

69 m LTL

3.6 m

3.6 m

3.6 m

3.6 m

3.6 m

3.6 m

3+200

3+300

3+400

3+500

LEGEND

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

38A OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: ADDITIONAL DWG FOR STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S10E
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47 AND MAIN STREET
TRAFFIC CONTROL PLAN
STA. 3+200.000 TO STA. 3+580.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 90A / 539

PLOT DATE: Aug 1, 2004 8:55am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh\RAF-CON\TCP1S10e.dwg

42E-PLN
APBOX
42E-ALI
42MHETO

PLOT DATE: Aug 1, 2004 8:56am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\TRAF-CON\TCP1S10f.dwg

TRAFFIC CONTROL (PHASE 3, STAGE 1)

5 0 10 20
HORIZONTAL SCALE IN METERS

MAIN STREET (T.H. 242)

MATCH LINE STA. 3+580.000

MATCH LINE STA. 3+960.000

3+600 3+700 3+800 3+900

3.6 m

1:40 TAPER

100 m TURN BAY

100 mm DOUBLE SOLID LINE YELLOW–PAINT

WEST NORTH 47 10

30 M.P.H.

FINES DOUBLE IN WORK ZONES

SOUTH 47 NORTH
EAST 10 WEST

100 mm SOLID LINE WHITE–PAINT

SPEED LIMIT 40 WORK ZONE

90 m CENTERLINE CURVE RADIUS

WORK ZONE SPEED LIMIT 40

3+715.981 BEGIN TAPER

100 mm SOLID DOUBLE LINE YELLOW–PAINT

100 mm SOLID LINE YELLOW–PAINT

100 mm SOLID LINE WHITE–PAINT

ONLY

ROAD CLOSED

COON CREEK BLVD 18

LEGEND

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: ADDITIONAL DWG FOR STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S10F
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Fields
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION HIGHWAY 10/47 AND MAIN STREET

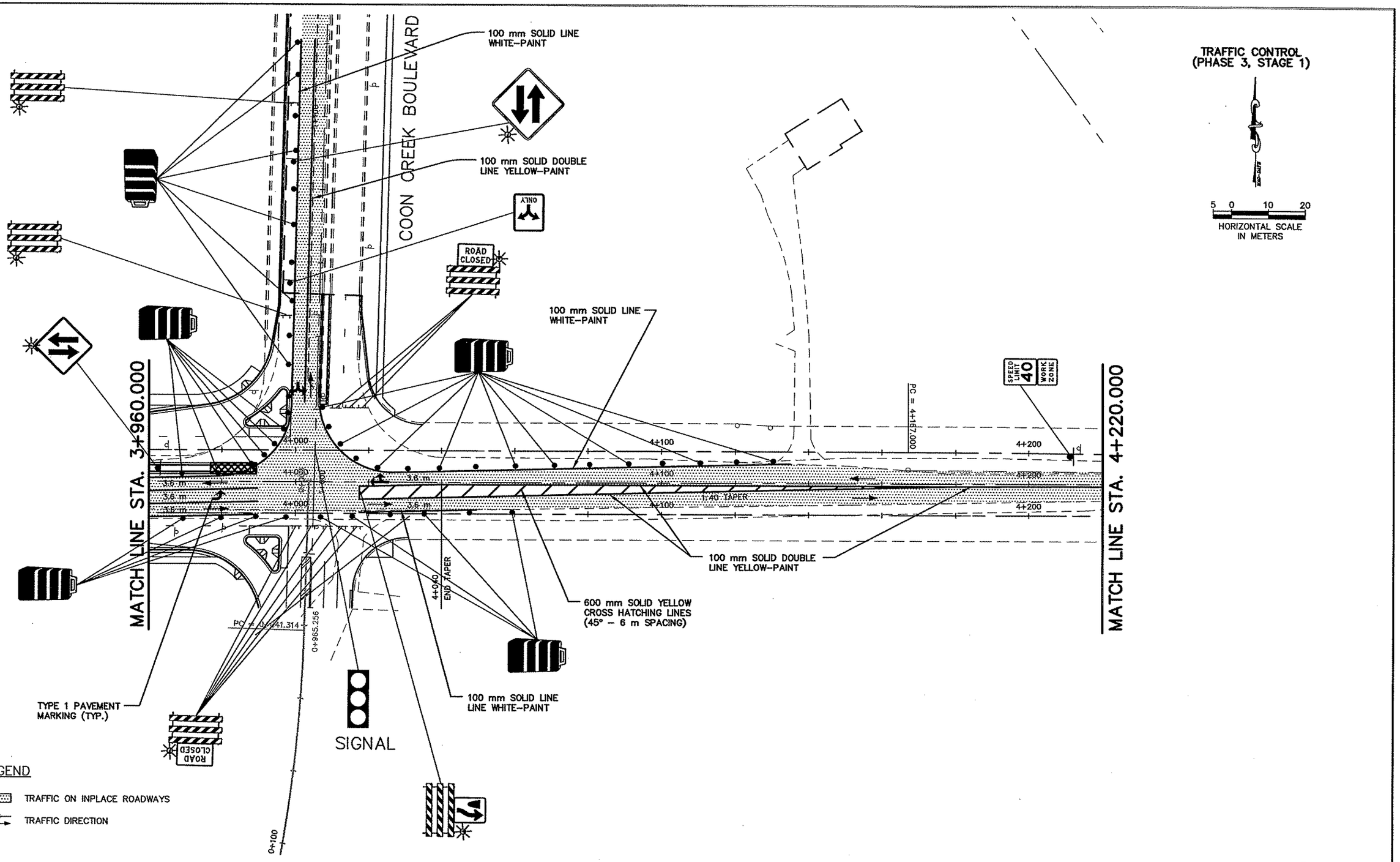
TRAFFIC CONTROL PLAN
STA. 3+580.000 TO STA. 3+960.000

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 90B / 539

PLOT DATE: Aug 1?, 2004 8:59am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh?\RAF-CON\TCP1S10g.dwg



TRAFFIC CONTROL (PHASE 3, STAGE 1)

5 0 10 20

HORIZONTAL SCALE IN METERS

38C OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: ADDITIONAL DWG FOR STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S10G
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
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(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION HIGHWAY 10/47 AND MAIN STREET

TRAFFIC CONTROL PLAN
STA. 3+960.000 TO STA. 4+420.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

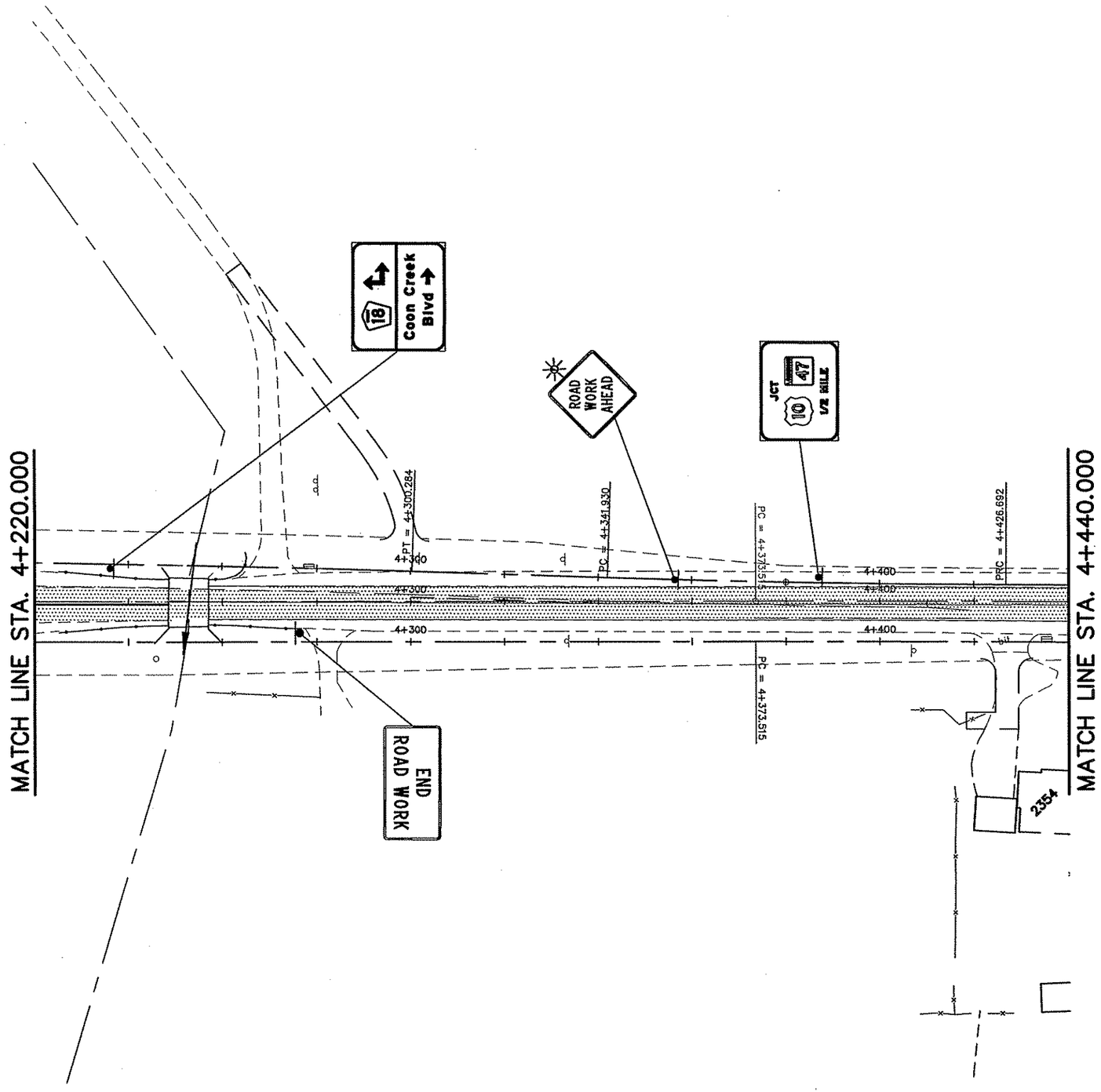
SHEET NO. 90C / 539

42E-PLN
APBOX
42E-ALI
42MHETO

PLOT DATE: Aug 1?-2004 9:02am DISK FILE NAME: (15.06) R:\33869\33869028\33889W\PLAN_Sh...\RAF-CON\TCP1S10h.dwg

TRAFFIC CONTROL (PHASE 3, STAGE 1)

5 0 10 20
HORIZONTAL SCALE IN METERS



LEGEND

- TRAFFIC ON INPLACE ROADWAYS
- TRAFFIC DIRECTION

38D OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: ADDITIONAL DWG FOR STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S10H
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION HIGHWAY 10/47 AND MAIN STREET

TRAFFIC CONTROL PLAN
STA. 4+420.000 TO STA. 4+440.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 90D / 539

BEGIN CONSTRUCTION
BEGIN S.A.P. 114–127–02
NORTHDALE BOULEVARD
STA. 0+750.215

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1)

SCALE IN METERS
HOR. 1=500
VERT. 1=100

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1: (SUBSTAGE B)

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14/T.H. 242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H. 14/T.H. 242) E.B. LANES AND MEDIAN FROM ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

TRAFFIC CONTROL (PHASE 3, STAGE 1)

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39 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A; REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S205
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL.)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

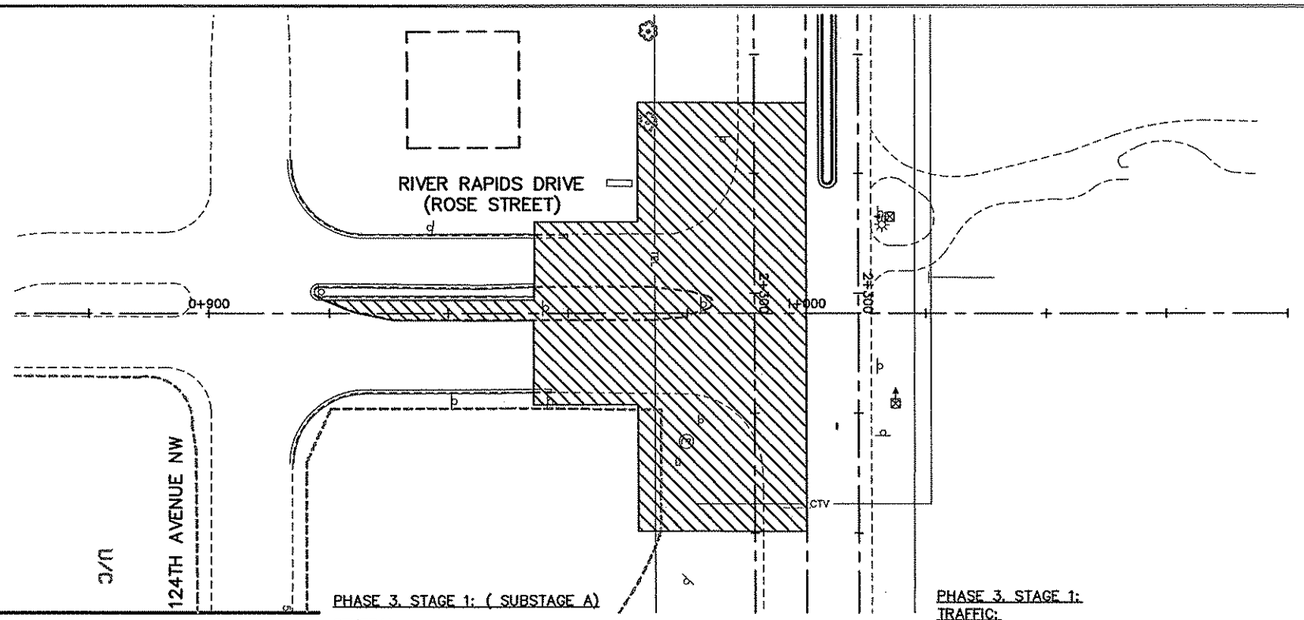
MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 0+750.215 TO STA. 1+000.000

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 91 / 539

PLOT DATE: Jul 24, ..00 8:56am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh...\RAF–CON\Tcp2s205.dwg



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1) (SUBSTAGE A)

MAGNETIC

5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

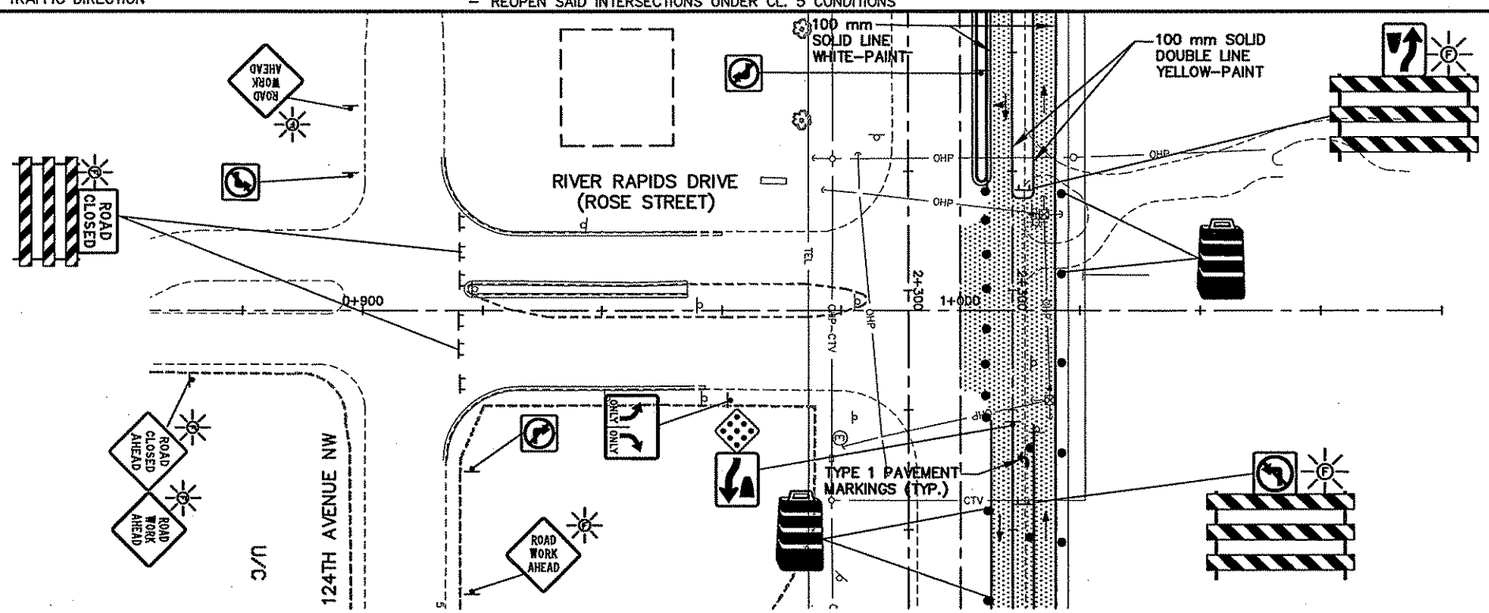
- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1:
TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14/T.H. 242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H. 14/T.H. 242) E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200



TRAFFIC CONTROL (PHASE 3, STAGE 1)

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40 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S105
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVER RAPIDS DRIVE
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 0+860.000 TO STA. 1+080.000

CITY PROJECT 98–20

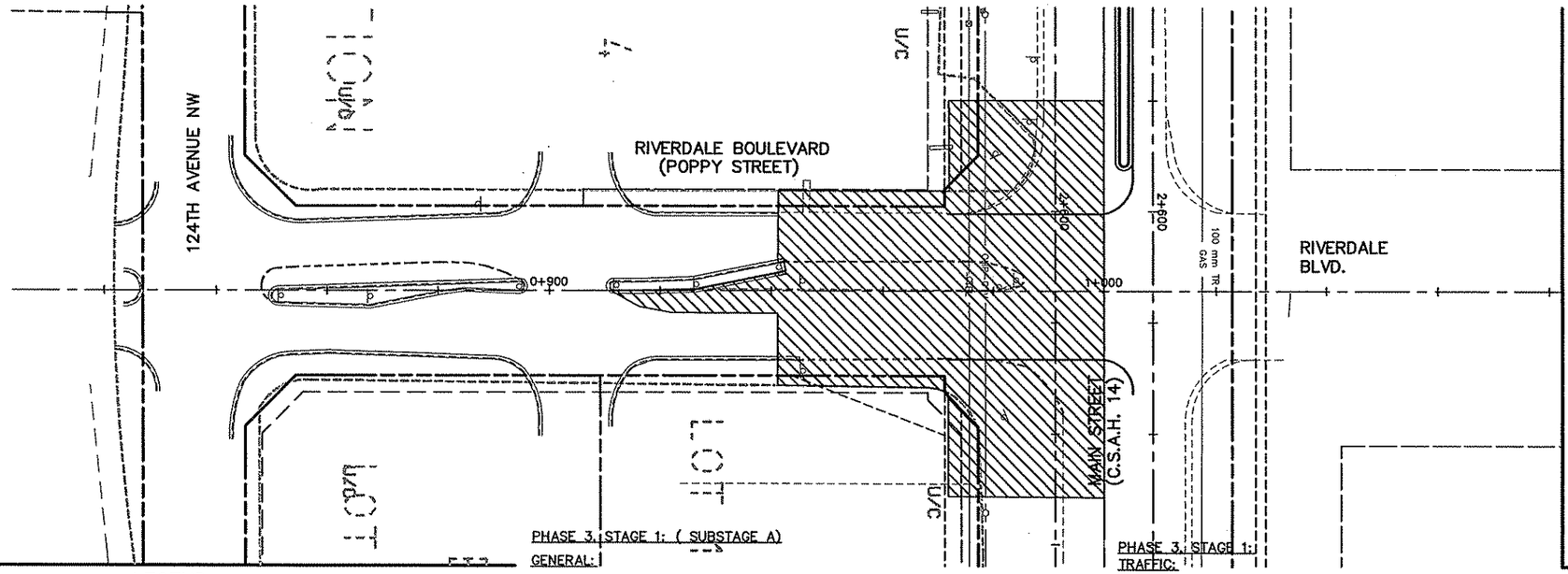
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 92 / 539

PLOT DATE: Jul 24, 2000 9:00am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh...\RAF–CON\Tcp2s105.dwg

BOX
IPWP2SI
WP2SI
PLNW
-ALIW
-ESUM
MP
MI
-EL

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1)



5 0 10 20
SCALE IN METERS
HOR. 1=500
VERT. 1=100

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

PHASE 3, STAGE 1: (SUBSTAGE A)

GENERAL:

THE CONSTRUCTION STAGING PLANS INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO PLANS FOR ADDITIONAL INFORMATION.

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1:

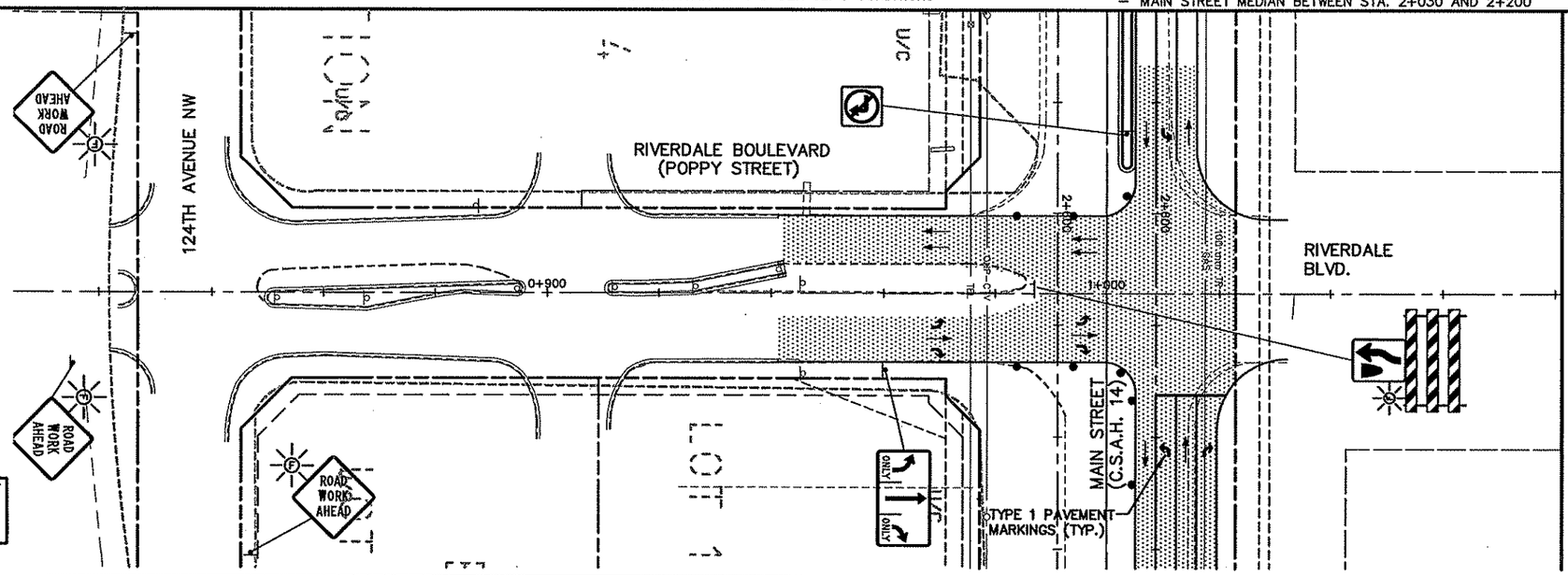
TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14/T.H. 242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H. 14/T.H. 2420 E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

TRAFFIC CONTROL (PHASE 3, STAGE 1)



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP2S106
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVERDALE VILLAGE BOULEVARD
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 0+820.000 TO STA. 1+080.000

CITY PROJECT 98-20

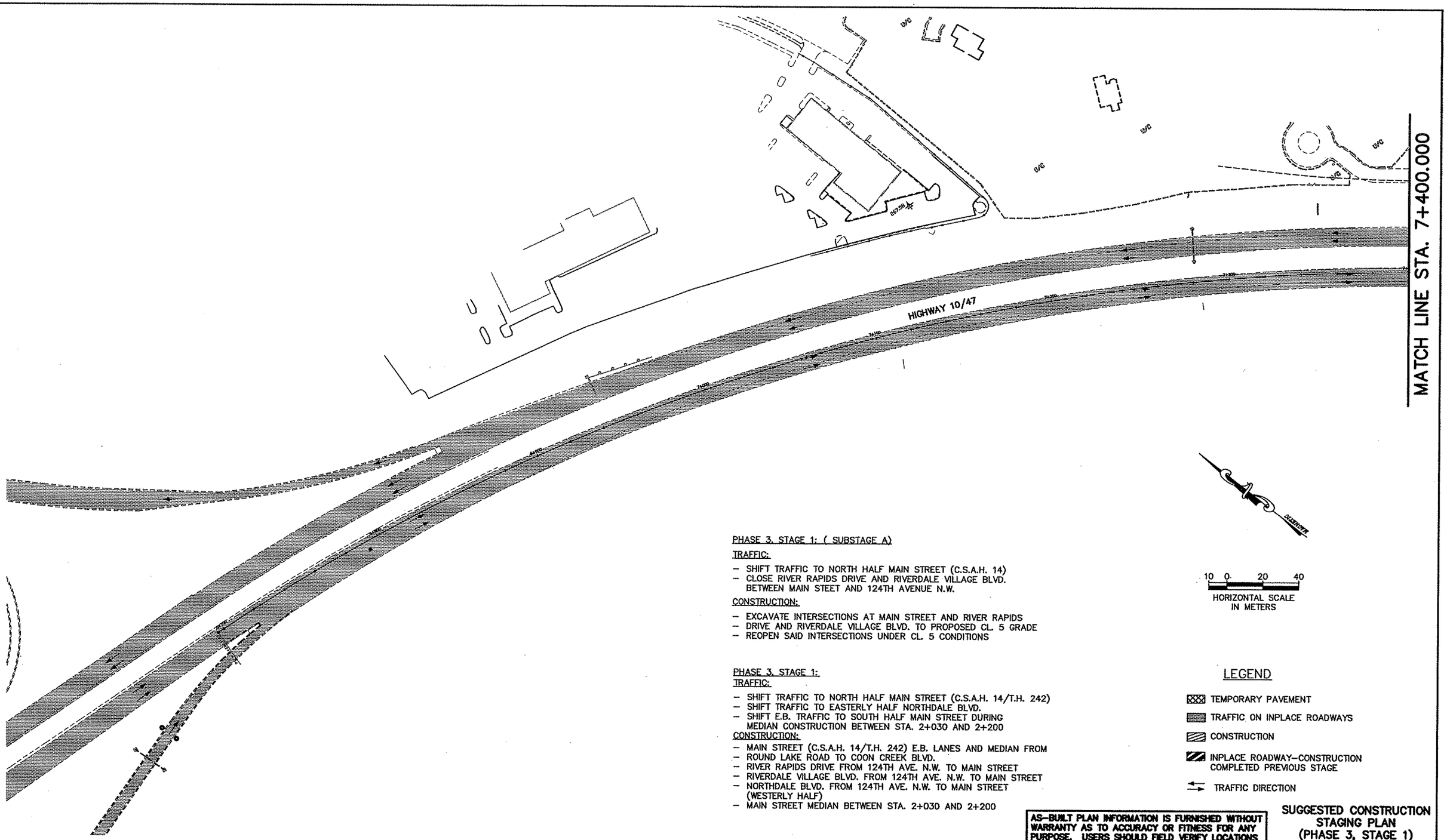
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 93 / 539

PLOT DATE: Jul 2 ...00 9:03am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S... ...AF-CON\Tcp2s106.dwg

ORIF DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO



PHASE 3, STAGE 1: (SUBSTAGE A)

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14)
- CLOSE RIVER RAPIDS DRIVE AND RIVERDALE VILLAGE BLVD. BETWEEN MAIN STEET AND 124TH AVENUE N.W.

CONSTRUCTION:

- EXCAVATE INTERSECTIONS AT MAIN STREET AND RIVER RAPIDS
- DRIVE AND RIVERDALE VILLAGE BLVD. TO PROPOSED CL. 5 GRADE
- REOPEN SAID INTERSECTIONS UNDER CL. 5 CONDITIONS

PHASE 3, STAGE 1:

TRAFFIC:

- SHIFT TRAFFIC TO NORTH HALF MAIN STREET (C.S.A.H. 14/T.H. 242)
- SHIFT TRAFFIC TO EASTERLY HALF NORTHDALE BLVD.
- SHIFT E.B. TRAFFIC TO SOUTH HALF MAIN STREET DURING MEDIAN CONSTRUCTION BETWEEN STA. 2+030 AND 2+200

CONSTRUCTION:

- MAIN STREET (C.S.A.H. 14/T.H. 242) E.B. LANES AND MEDIAN FROM
- ROUND LAKE ROAD TO COON CREEK BLVD.
- RIVER RAPIDS DRIVE FROM 124TH AVE. N.W. TO MAIN STREET
- RIVERDALE VILLAGE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET
- NORTHDALE BLVD. FROM 124TH AVE. N.W. TO MAIN STREET (WESTERLY HALF)
- MAIN STREET MEDIAN BETWEEN STA. 2+030 AND 2+200

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY-CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1)

42 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S105C
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Sielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
CONSTRUCTION STAGING PLAN
STA. 6+700.000 TO STA. 7+400.000

CITY PROJECT 98-20

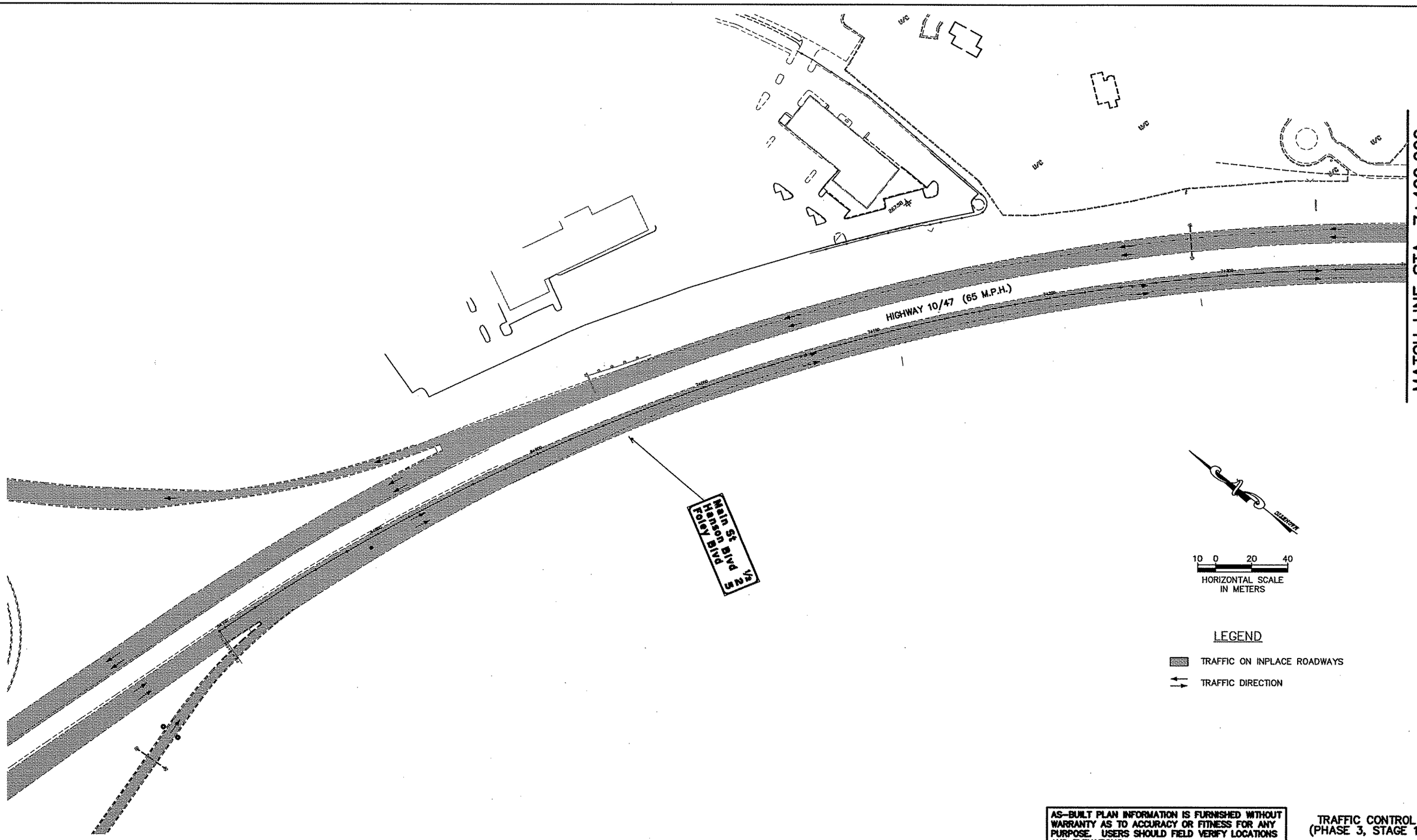
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 94 / 539

PLOT DATE: Jul 2, 000 8:44am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S...,RAF-CON\Tcp1s105C.dwg

ORD DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL
(PHASE 3, STAGE 1)

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S105D
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 6+700.000 TO STA. 7+400.000

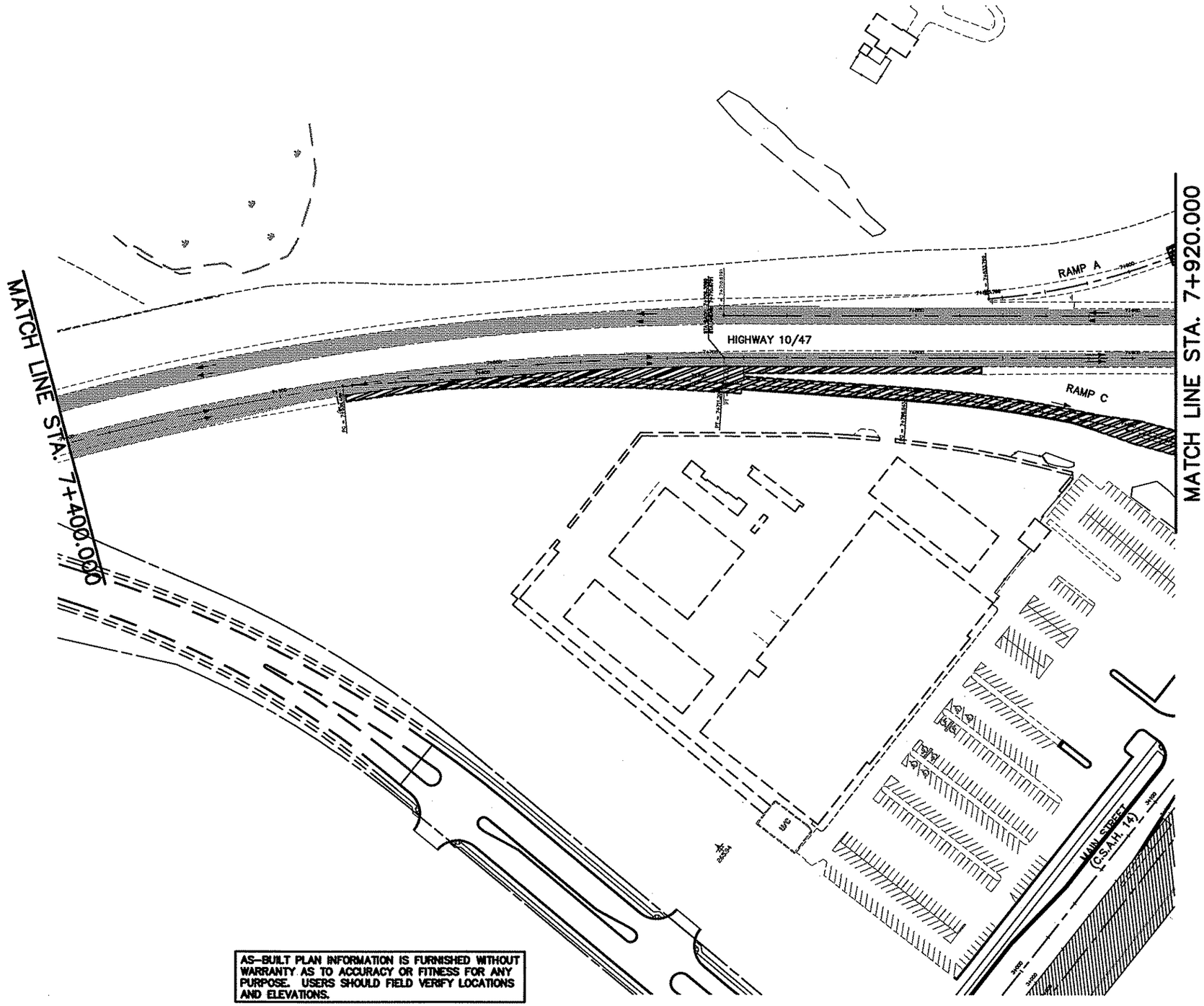
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 95 / 539

PLOT DATE: Jul 2, 00 8:46am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S...\RAF-CON\Tcp1s105D.dwg

P3S1
BOX
E-ALI
E-PLN
MHETO



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1)

44 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	7/5/00	MOD. REQ. #36: REVISED MENARDS ENTRANCE
2	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S111C
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
CONSTRUCTION STAGING PLAN
STA. 7+400.000 TO STA. 7+920.000

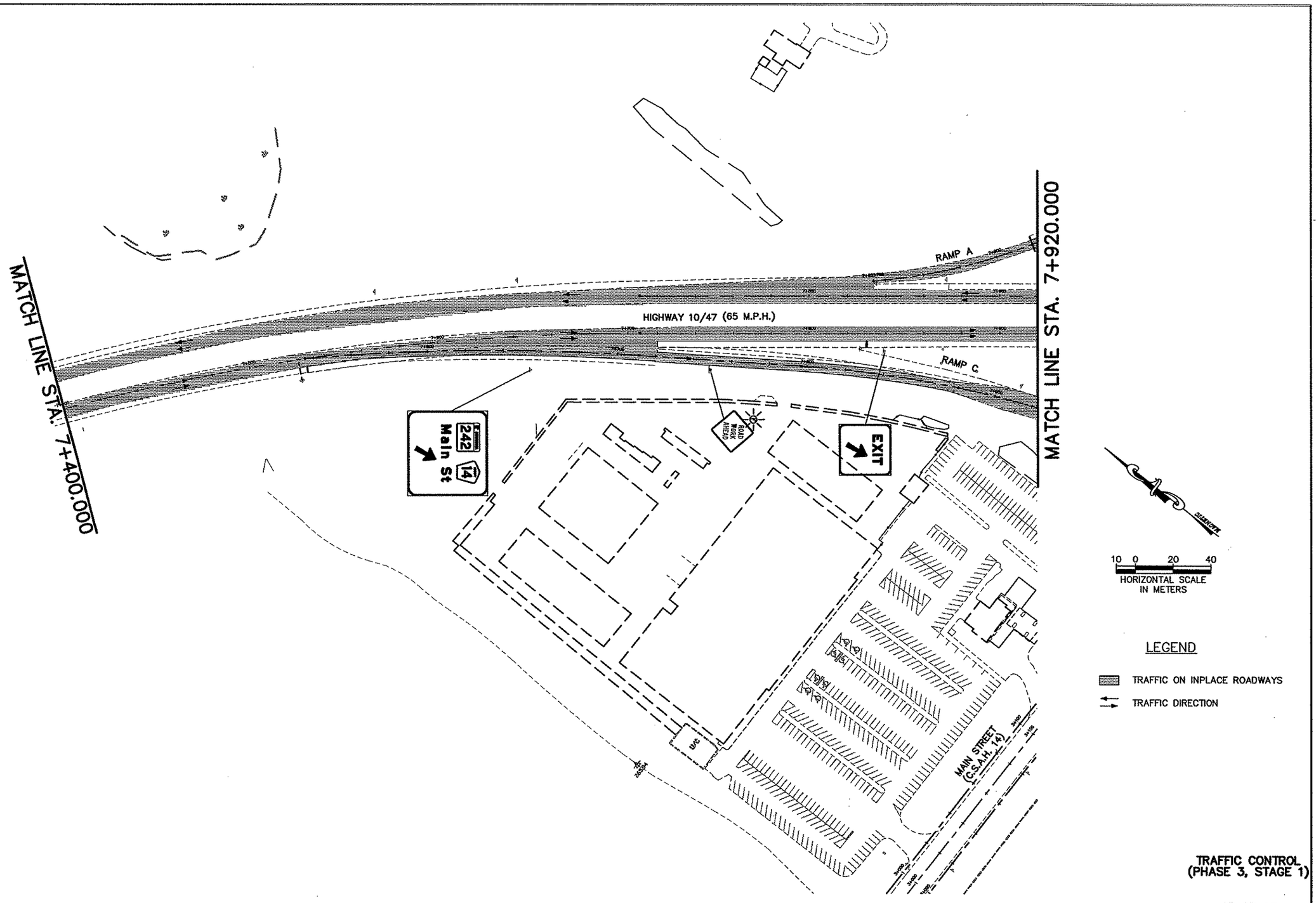
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 96 / 539

PLOT DATE: Aug 1, 2004 1:51pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...\RAF-CON\Top1s111C.dwg

APBOX
42E-ALI
42E-PLN
42MHETO



TRAFFIC CONTROL
(PHASE 3, STAGE 1)

45 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S111D
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bilb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 7+400.000 TO STA. 7+920.000

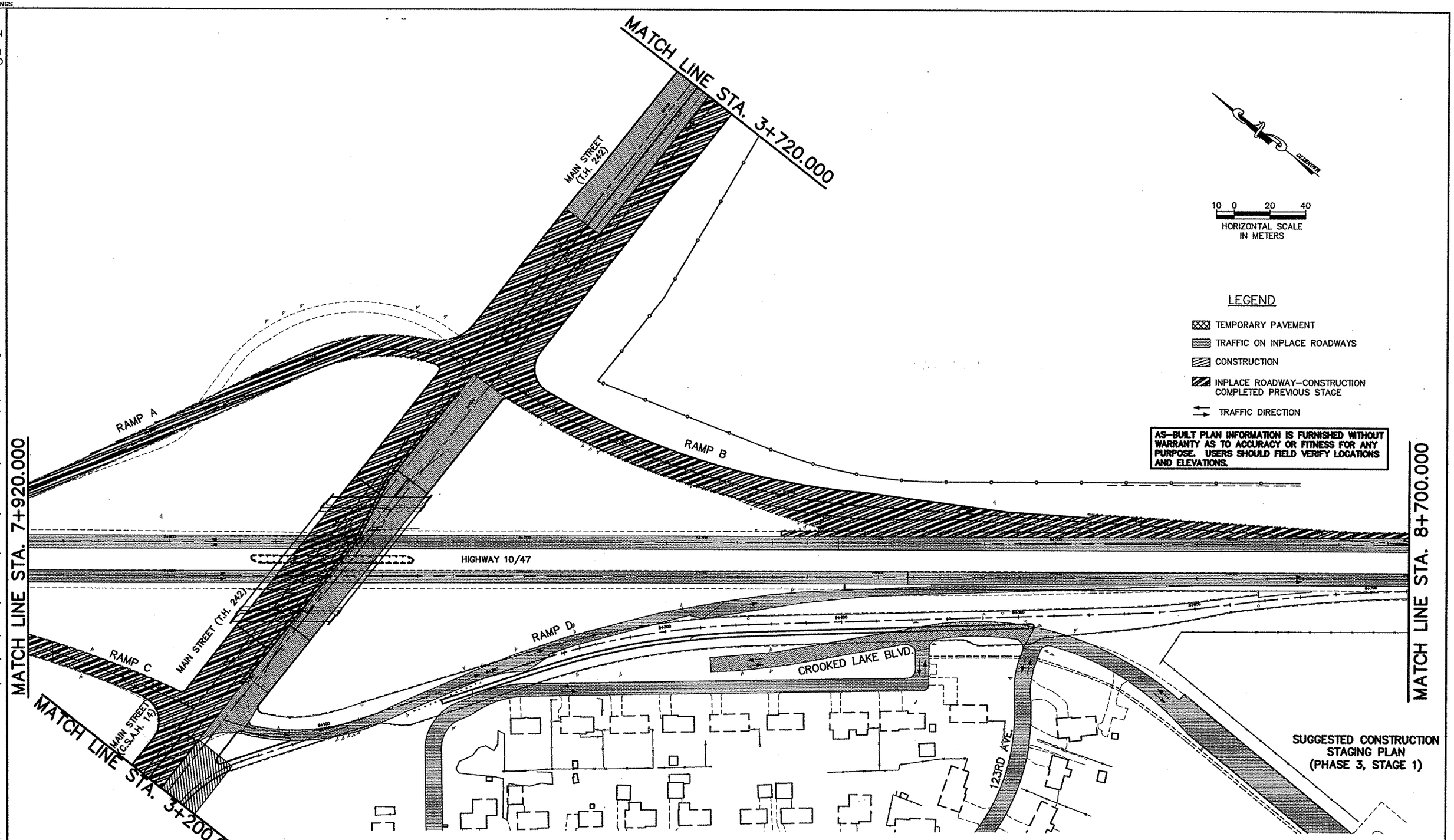
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 97 / 539

PLOT DATE: Aug 1., 2004 1:52pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...\RAF-CON\Tcp1s111D.dwg

DRAWINGS
ONP3S1
42E-PLN
APBOX
42E-ALI
42MHETO



10 0 20 40
HORIZONTAL SCALE IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD
2	PMJ	7/24/00	MOD. REQ. #44A: REVISED PER ACTUAL CONSTRUCTION
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S10C
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bird
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47 AND MAIN STREET
CONSTRUCTION STAGING PLAN
STA. 7+920.000 TO STA. 8+700.000
STA. 3+200.000 TO STA. 3+720.000
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 98 / 539

PLOT DATE: Jul 2-, 2000 8:50am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S...\TRAF-CON\Tcp1s10C.dwg

XREF DRAWINGS

42E-PLN
APBOX
42E-ALI
42MHETO

MATCH LINE STA. 7+920.000

MATCH LINE STA. 3+720.000

MATCH LINE STA. 3+200.000

MATCH LINE STA. 8+700.000

WEST NORTH 10 47

MAIN STREET (T.H. 242)

3+715.981 BEGIN TAPER

SPEED LIMIT 40 WORK ZONE

100 mm SOLID LINE YELLOW-PAINT

TYPE 1 PAVEMENT MARKING (TYP.)

100 mm SOLID LINE WHITE-PAINT

SIGNAL

90 m CENTERLINE CURVE RADIUS

100 mm DOUBLE SOLID LINE YELLOW-PAINT

ROAD CLOSED

RAMP A

RAMP B

RAMP C

RAMP D

MAIN STREET (C.S.A.H. 14)

ONLY

ROAD WORK AHEAD

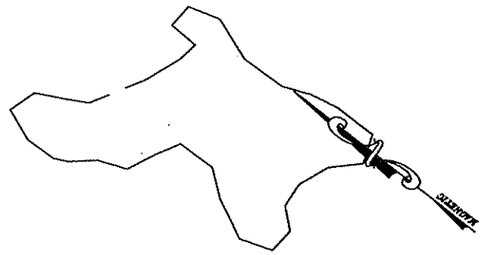
400 mm SOLID LINE WHITE-PAINT

HIGHWAY 10/47 (65 M.P.H.)

30 KPH

DO NOT ENTER

WRONG WAY



LEGEND

- TRAFFIC ON INPLACE ROADWAYS
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL (PHASE 3, STAGE 1)

47 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD
2	PMJ	7/24/00	MOD. REQ. #44A: REVISED PER ACTUAL CONSTRUCTION
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S10D
DATE: NOVEMBER 5, 1999

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION HIGHWAY 10/47 AND MAIN STREET

TRAFFIC CONTROL PLAN
STA. 7+920.000 TO STA. 8+700.000
STA. 3+200.000 TO STA. 3+720.000

CITY PROJECT 98-20

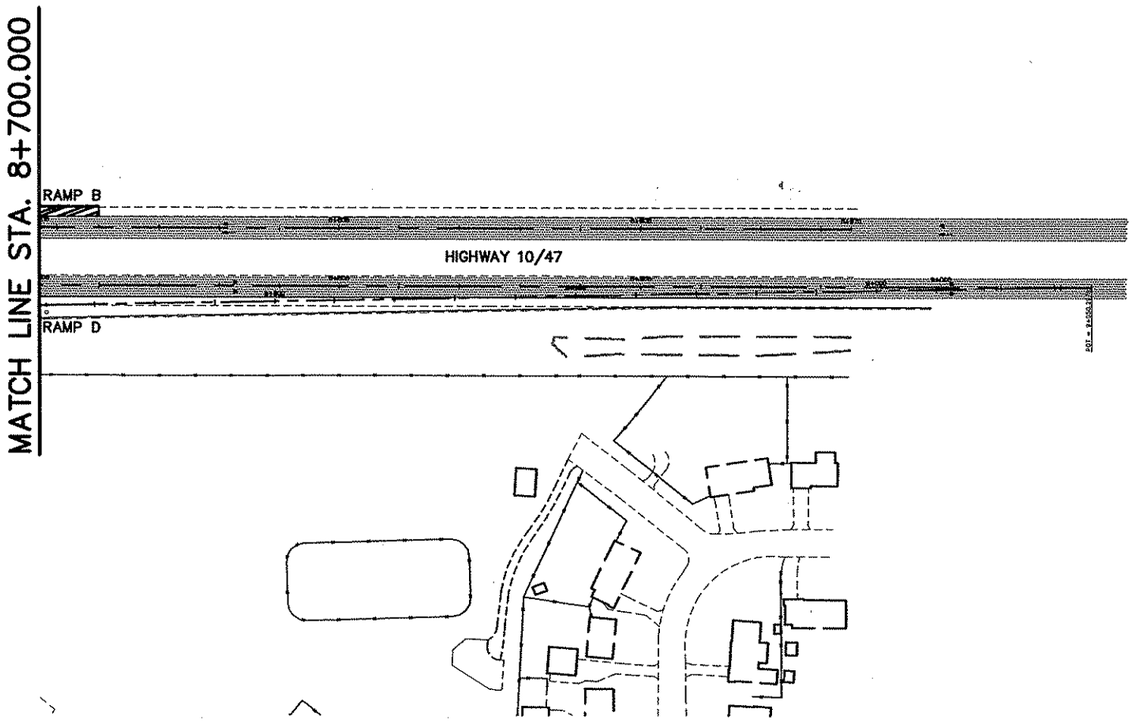
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

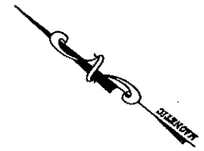
SHEET NO. 99 / 539

PLOT DATE: Jul 24, 2000 8:60am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\TRAF-CON\Tcp1s10D.dwg

ORF DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO





10 0 20 40
HORIZONTAL SCALE
IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY--CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

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SUGGESTED CONSTRUCTION
STAGING PLAN
PHASE 3, STAGE 1

48 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD
DWG. NAME: TCP1S102C
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1379 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
CONSTRUCTION STAGING PLAN
STA. 8+700.000 TO STA. 9+050.000

CITY PROJECT 98-20

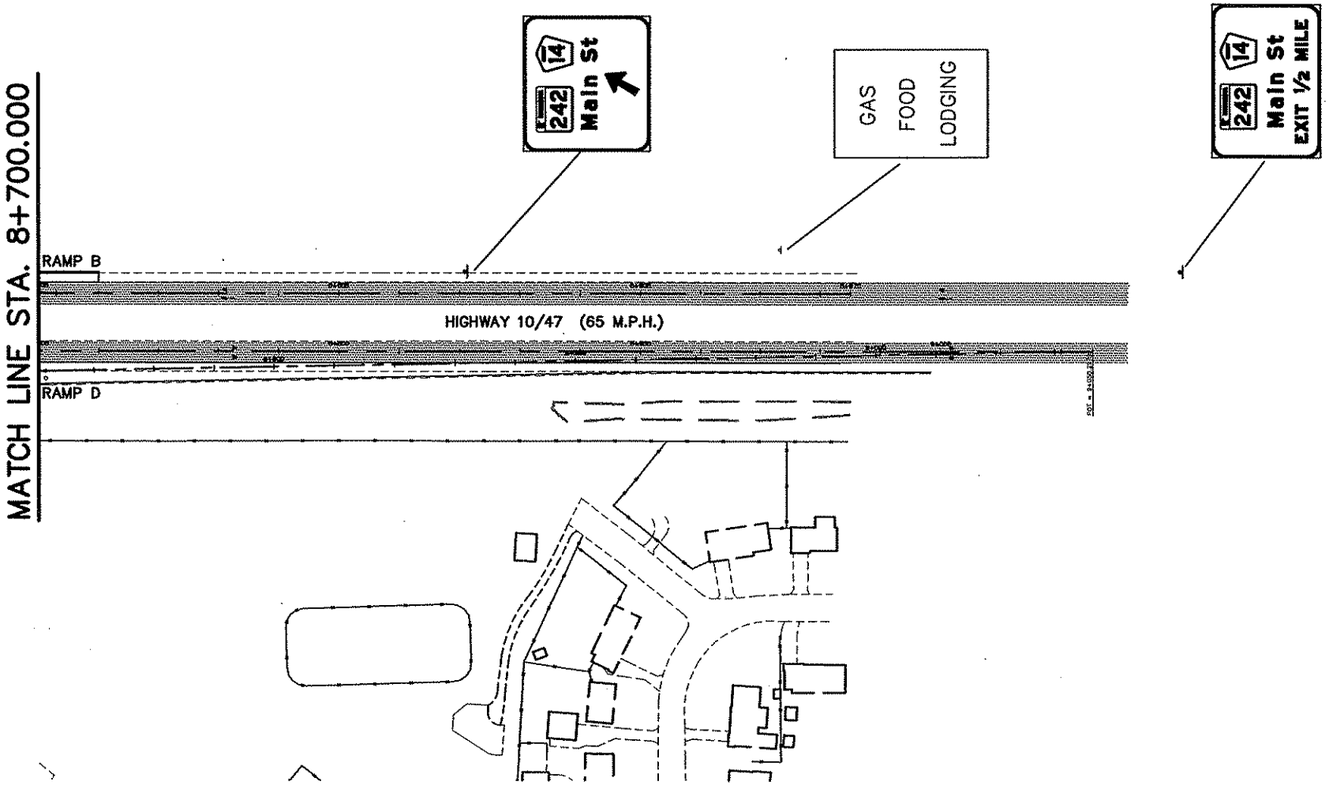
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

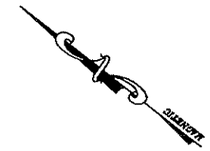
SHEET NO. 100 / 539

PLOT DATE: Jul 4 ,000 9:01am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_ (RAF-CON\Tcp1s102C.dwg

ONE DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO





10 0 20 40
HORIZONTAL SCALE
IN METERS

LEGEND

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL
(PHASE 3, STAGE 1)

49 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED STAGE 3, PHASE 1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD
DWG. NAME: TCP1S102D
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(812)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 8+700.000 TO STA. 9+050.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 101 / 539

PLOT DATE: Jul 2000 9:02am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_TRAF-CON\Tcp1s102D.dwg

REF DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO

MAIN STREET
(T.H. 242)

COON CREEK BOULEVARD

MATCH LINE STA. 3+720.000

10 0 20 40
HORIZONTAL SCALE
IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY-CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 3, STAGE 1)

50 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED PER ACTUAL CONSTRUCTION
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S103C
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
CONSTRUCTION STAGING PLAN
STA. 3+720.000 TO STA. 4+350.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 102 / 539

PLOT DATE: Jul 27, 2000 9:03am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Str...\TRAF-CON\Tcp1s103C.dwg

XREF DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO

MATCH LINE STA. 3+720.000

COON CREEK BOULEVARD

MAIN STREET (T.H. 242)

100 mm SOLID LINE WHITE-PAINT

100 mm SOLID DOUBLE LINE YELLOW-PAINT

100 mm SOLID LINE WHITE-PAINT

100 mm SOLID DOUBLE LINE YELLOW-PAINT

100 mm SOLID LINE WHITE-PAINT

100 mm SOLID DOUBLE LINE YELLOW-PAINT

100 mm SOLID LINE YELLOW-PAINT

100 mm SOLID LINE WHITE-PAINT

TYPE 1 PAVEMENT MARKING (TYP.)

600 mm SOLID YELLOW CROSS HATCHING LINES (45° - 6 m SPACING)

100 mm SOLID LINE LINE WHITE-PAINT

SIGNAL

FINES DOUBLE IN WORK ZONES

30 KPH

EAST 10 WEST

SOUTH 47 NORTH

SPEED LIMIT 40 WORK ZONE

ROAD CLOSED

ONLY

COON CREEK BLVD 18

Coon Creek Blvd 18

JCT 47 10 1/2 MILE

ROAD WORK AHEAD

END ROAD WORK

10 0 20 40
HORIZONTAL SCALE IN METERS

LEGEND

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL (PHASE 3, STAGE 1)

51 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/24/00	MOD. REQ. #44A: REVISED PER ACTUAL CONSTRUCTION
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP1S103D
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
TRAFFIC CONTROL PLAN
STA. 3+720.000 TO STA. 4+350.000

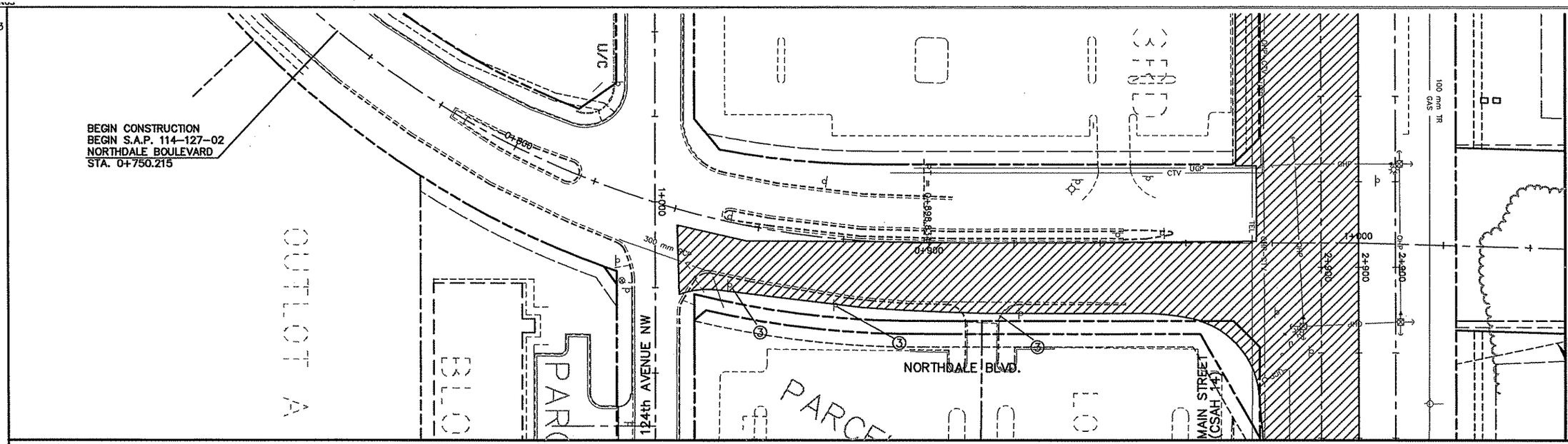
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 103 / 539

PLOT DATE: Jul 2x,2000 9:04am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh...\TRAF-CON\Tcp1s103D.dwg

PLOT DATE: Aug 12, 2004 1:30pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...RAF-CON\Tcp2s301.dwg



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY-CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL

PHASE 3, STAGE 2:

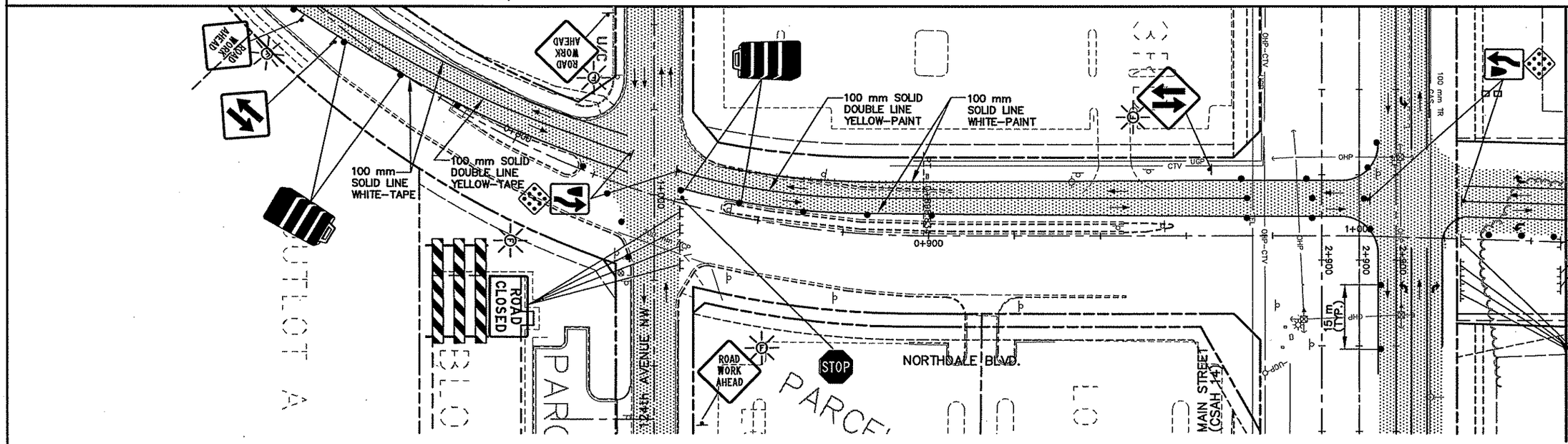
TRAFFIC

- SHIFT TRAFFIC TO WEST SIDE OF NORTHDALE BLVD.

CONSTRUCTION:

- NORTHDALE BLVD. EAST SIDE FROM 124TH AVE. TO MAIN STREET

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



52 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCP2S301
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Gidlb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION NORTHDALE BOULEVARD

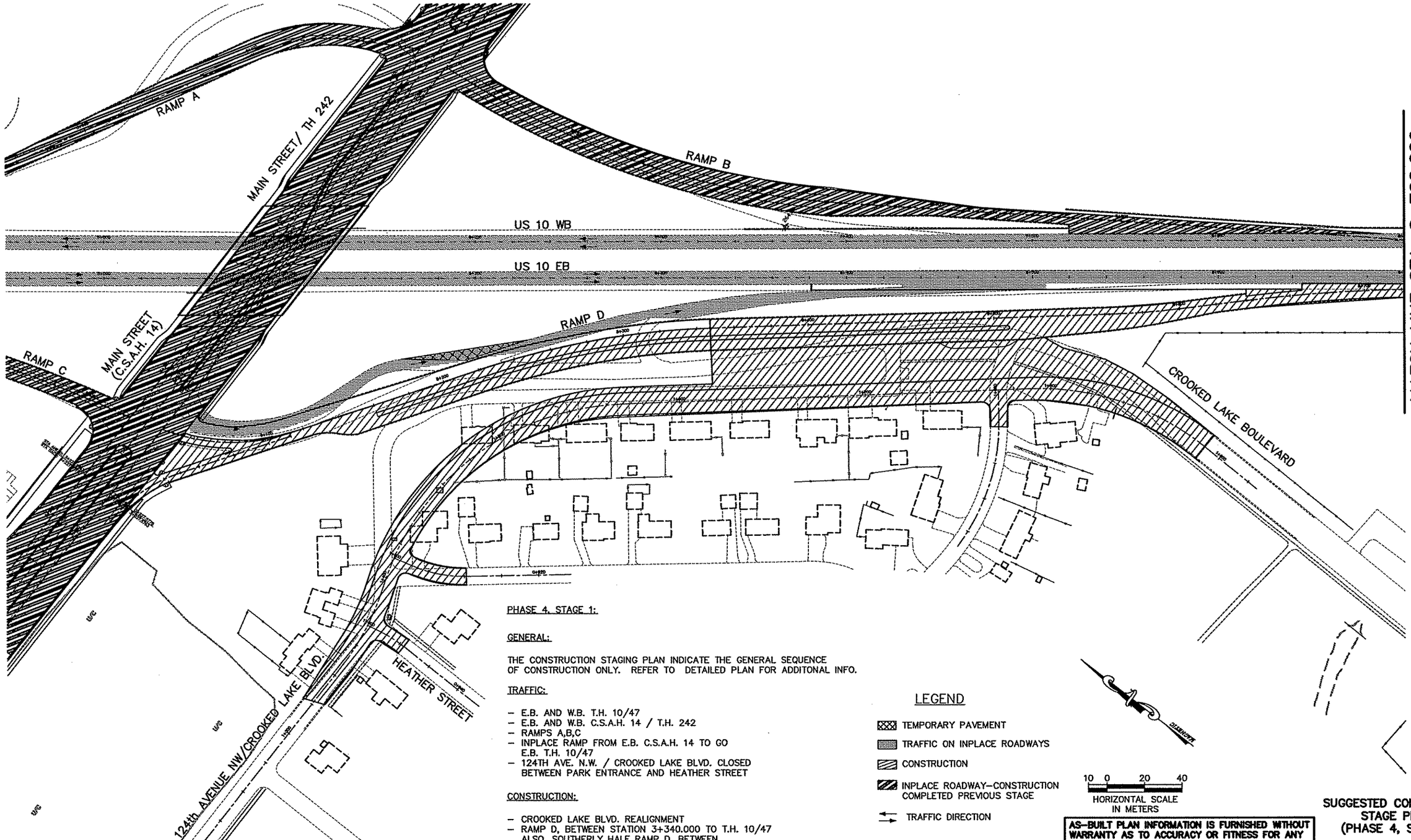
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 0+750.215 TO STA. 1+000.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 104 / 539

)NP4S1
12-ALIW
\PBOX
12E-ALI
12MHETO



PHASE 4, STAGE 1:

GENERAL:

THE CONSTRUCTION STAGING PLAN INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO DETAILED PLAN FOR ADDITONAL INFO.

TRAFFIC:

- E.B. AND W.B. T.H. 10/47
- E.B. AND W.B. C.S.A.H. 14 / T.H. 242
- RAMPS A,B,C
- INPLACE RAMP FROM E.B. C.S.A.H. 14 TO GO E.B. T.H. 10/47
- 124TH AVE. N.W. / CROOKED LAKE BLVD. CLOSED BETWEEN PARK ENTRANCE AND HEATHER STREET

CONSTRUCTION:

- CROOKED LAKE BLVD. REALIGNMENT
- RAMP D, BETWEEN STATION 3+340.000 TO T.H. 10/47 ALSO, SOUTHERLY HALF RAMP D, BETWEEN MAIN STREET (C.S.A.H. 14) AND STATION 8+340.000

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY-CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

10 0 20 40
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGE PLANS (PHASE 4, STAGE 1)

53 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCPXSX41
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bird

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP D, 124th/CROOKED LAKE BLVD.
CONSTRUCTION STAGING PLAN
STA. 8+350.000 TO STA. 9+050.000
STA. 1+320.000 TO STA. 1+890.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 105 / 539

PLOT DATE: Aug 1;...J04 1:37pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...\AF-CON\Tcpxsx41.dwg

42-ALIW
APBOX
42E-ALI
42MHETO

LEGEND

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

REMOVE CONFLICTING PAINT MARKING

REMOVALBE PREFORMED PLASTIC MARKING

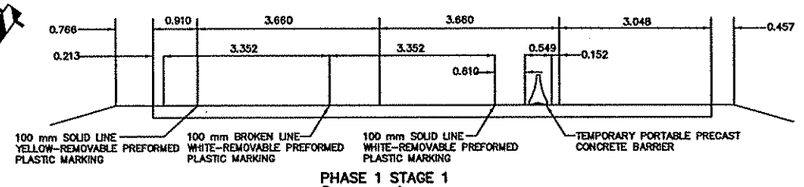
SPEED TO 1 ℄ TAPER (1.006 m LANE SHIFT)

1.006 m x 65 M.P.H. = 66 m

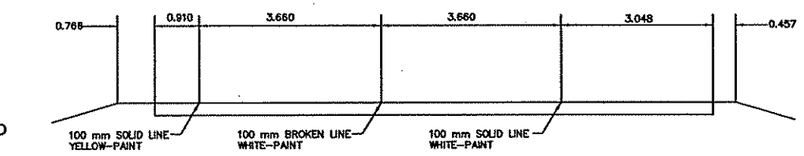
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

10 0 20 40
HORIZONTAL SCALE IN METERS

RAMP A
RAMP B
RAMP C
RAMP D
MAIN STREET/ TH 242
MAIN STREET (C.S.A.H. 14)
US 10 WB
US 10 EB (65 M.P.H.)
SIGNAL
SIGNAL
ROAD WORK AHEAD
LANES NARROW
ROAD WORK AHEAD
NO SHOULDER
300 m
ROAD CLOSED
65 M.P.H. IMPACT ATTENUATORS (TYP.)
CONCRETE MEDIAN BARRIER W/ BARRIER REFLECTORS
BEGIN 3.35 m LANES
3.35 m LANES
100 mm SOLID LINE YELLOW-RPPM
100 mm SOLID LINE WHITE-RPPM
100 mm BROKEN LINE WHITE-RPPM
MATCH LINE STA. 8+700.000
END CONSTRUCTION
END S.A.P. 114-020-20
CROOKED LAKE BOULEVARD
STA. 1+890.110
ROAD CLOSED
ROAD CLOSED TO THRU TRAFFIC
ROAD CLOSED TO THRU TRAFFIC
ROAD CLOSED
ROAD CLOSED TO THRU TRAFFIC
ROAD CLOSED
INSTALL A MINIMUM OF 7 DAYS BEFORE CLOSING
ROAD CLOSED BEGINNING DATE
CROOKED LAKE BLVD.
121ST LANE N.W.
NORTHDALE BLVD.
ROAD CLOSED AHEAD
CONCRETE MEDIAN BARRIER W/ BARRIER REFLECTORS
40 M.P.H. IMPACT ATTENUATORS (TYP.)
ROAD WORK AHEAD
NO SHOULDER
ROAD WORK AHEAD
CROOKED LAKE BLVD.
124th AVENUE NW/CROOKED LAKE BLVD.
ROAD CLOSED TO THRU TRAFFIC
ROAD CLOSED TO THRU TRAFFIC
ROAD WORK AHEAD
**BARRICADE TO BE INSTALLED ON 124TH AVENUE NW AT NORTHDALE BLVD.



PHASE 1 STAGE 1
℄ E.B. 10/47 INP



EXISTING
℄ E.B. 10/47

TRAFFIC CONTROL (PHASE 4, STAGE 1)

* BARRICADE SHOULD BE PLACED ON CROOKED LAKE BOULEVARD AT NORTHDALE BOULEVARD WITH A SPECIAL SIGN "ROAD CLOSED BEYOND PARK ENTRANCE".

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	KR	12/30/99	ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCPXSX36
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP D, 124th/CROOKED LAKE BLVD.
TRAFFIC CONTROL PLAN
STA. 8+350.000 TO STA. 9+050.000
STA. 1+320.000 TO STA. 1+890.000

CITY PROJECT 98-20

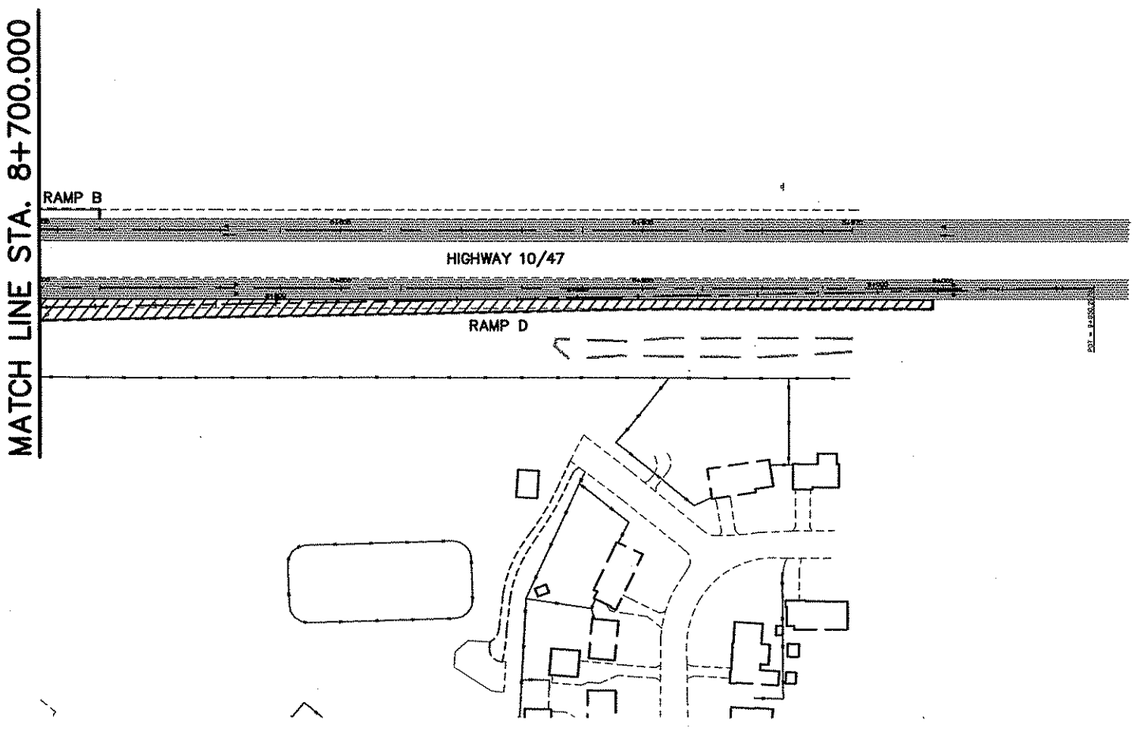
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

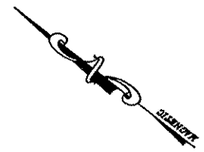
SHEET NO. 106 / 539

PLOT DATE: Aug 12, 2004 1:32pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\TRAF-CON\Tcpxsx36.dwg

REF DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO





10 0 20 40
HORIZONTAL SCALE
IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 4, STAGE 1)

55 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD
DWG. NAME: TCP1S102F
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
CONSTRUCTION STAGING PLAN
STA. 8+700.000 TO STA. 9+050.000

CITY PROJECT 98-20

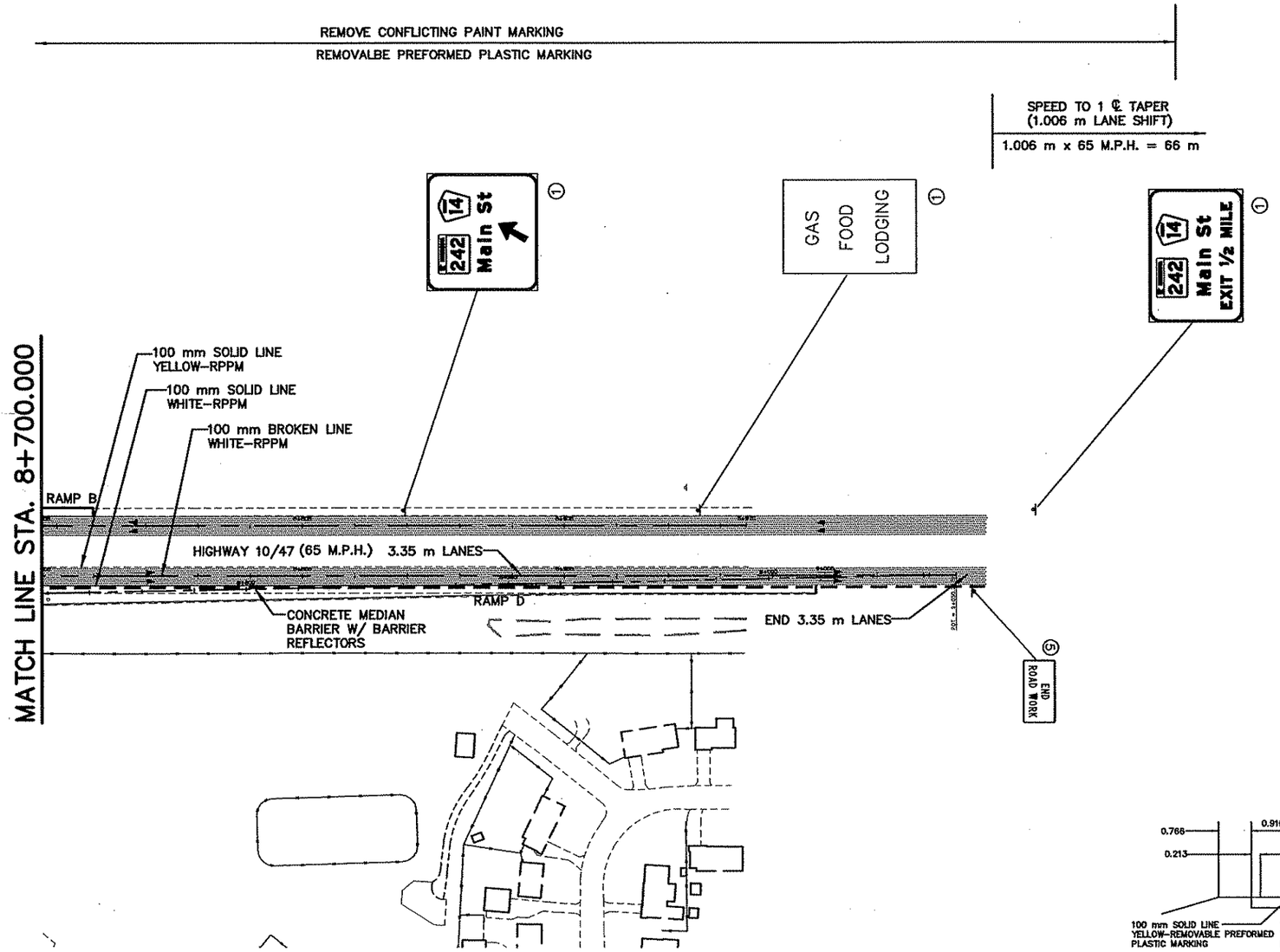
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

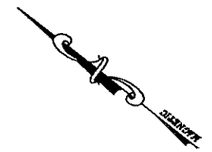
SHEET NO. 107 / 539

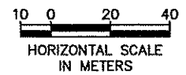
PLOT DATE: Dec 4 ,999 9:05am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S...RAF-CON\Tcp1s102F.dwg

NLP DRAWINGS

APBOX
42E-ALI
42E-PLN
42MHETO



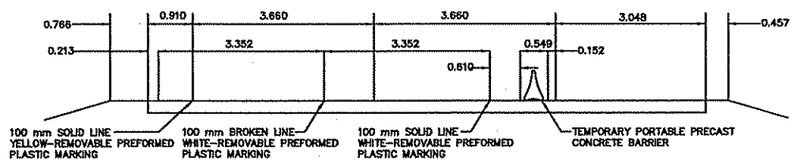




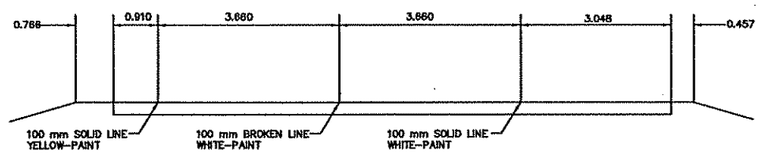
LEGEND

- ① INPLACE, USE INPLACE
- ② INPLACE, MODIFY MESSAGE
- ③ REMOVE
- ④ SALVAGE
- ⑤ FURNISH AND INSTALL (F & I)
- ⑥ INSTALL
- TRAFFIC ON INPLACE ROADWAYS
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



PHASE 1 STAGE 1
℄ E.B. 10/47 INP



EXISTING
℄ E.B. 10/47

TRAFFIC CONTROL (PHASE 4, STAGE 1)

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33B89028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD | DWG. NAME: TCP1S102E
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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THRESHER SQUARE
700 THIRD STREET SOUTH
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(612)370-1378 (FAX)

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Kevin P Bielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 8+700.000 TO STA. 9+050.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

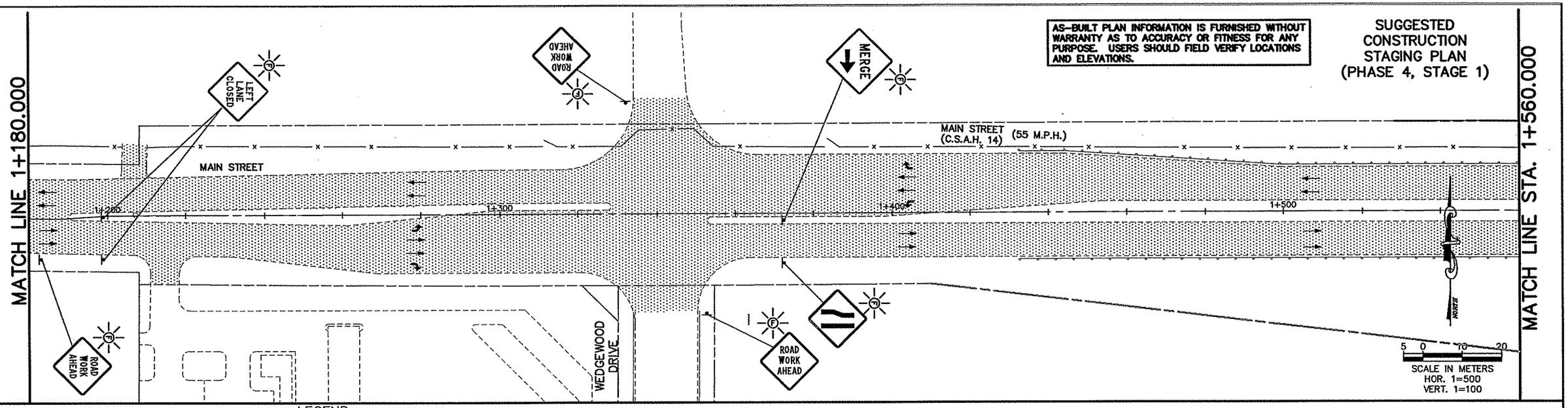
SHEET NO. 108 / 539

PLOT DATE: Jan 4 ,000 9:41am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S RAF-CON\Tcp1s102E.dwg

RP41
PBOX
2-ALIW
2-ESUM
2MHVEG
2MHETO
2-

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 4, STAGE 1)



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL

PHASE 4, STAGE 1:

GENERAL:

THE CONSTRUCTION STAGING PLAN INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO DETAILED PLAN FOR ADDITONAL INFO.

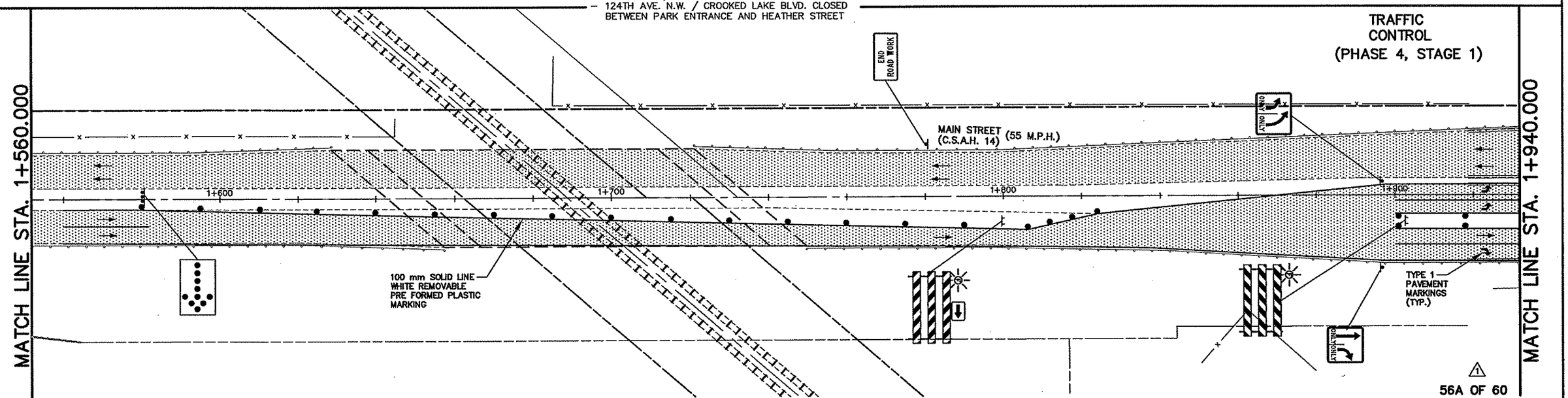
TRAFFIC:

- E.B. AND W.B. T.H. 10/47
- E.B. AND W.B. C.S.A.H. 14 / T.H. 242
- RAMPS A,B,C
- INPLACE RAMP FROM E.B. C.S.A.H. 14 TO GO E.B. T.H. 10/47
- 124TH AVE. N.W. / CROOKED LAKE BLVD. CLOSED BETWEEN PARK ENTRANCE AND HEATHER STREET

CONSTRUCTION:

- CROOKED LAKE BLVD. REALIGNMENT
- RAMP D, BETWEEN STATION 3+340.000 TO T.H. 10/47 ALSO, SOUTHERLY HALF RAMP D, BETWEEN MAIN STREET (C.S.A.H. 14) AND STATION 8+340.000
- REMAINING CONCRETE MEDIAN ON MAIN STREET (C.S.A.H. 14) BETWEEN STATION 2+200 AND ROUND LAKE BOULEVARD
- BITUMINOUS PAVING ON MAIN STREET (C.S.A.H. 14) ALONG BOTH SIDES OF SAID CONCRETE MEDIAN

TRAFFIC CONTROL (PHASE 4, STAGE 1)



56A OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND 1 ADD'L CONSTR./TRAFFIC CONTROL SHEET P4,S1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP4S101
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

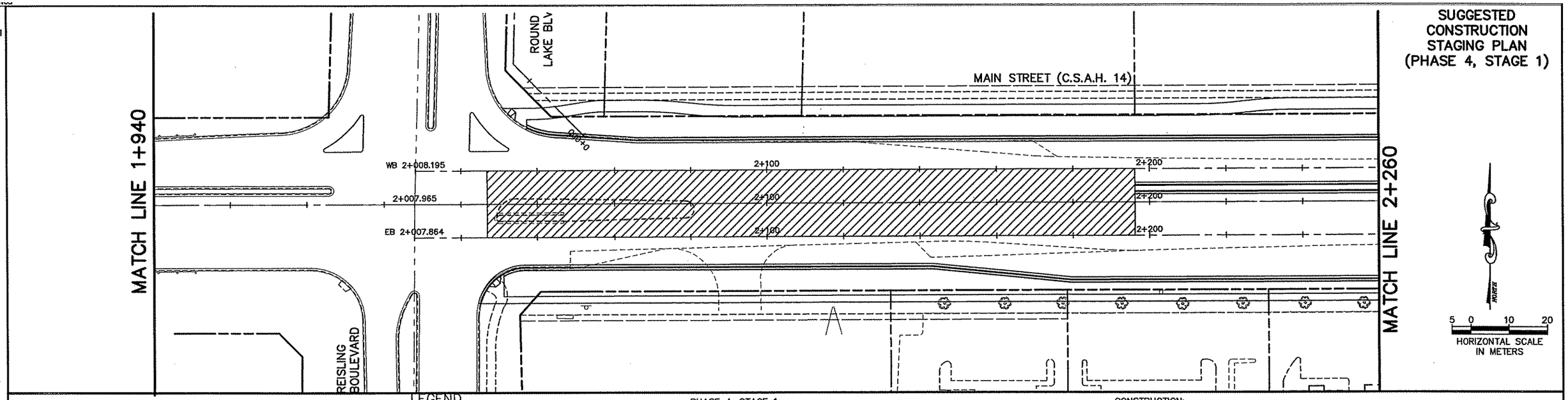
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 1+180.000TO STA. 1+940.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 108A / 539

PLOT DATE: Aug 26, 2004 6:02pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH...\TCP4S101.dwg



SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 4, STAGE 1)

5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

① INPLACE, USE INPLACE
② INPLACE, MODIFY MESSAGE
③ REMOVE
④ SALVAGE
⑤ FURNISH AND INSTALL (F & I)
⑥ INSTALL

PHASE 4, STAGE 1:

GENERAL:

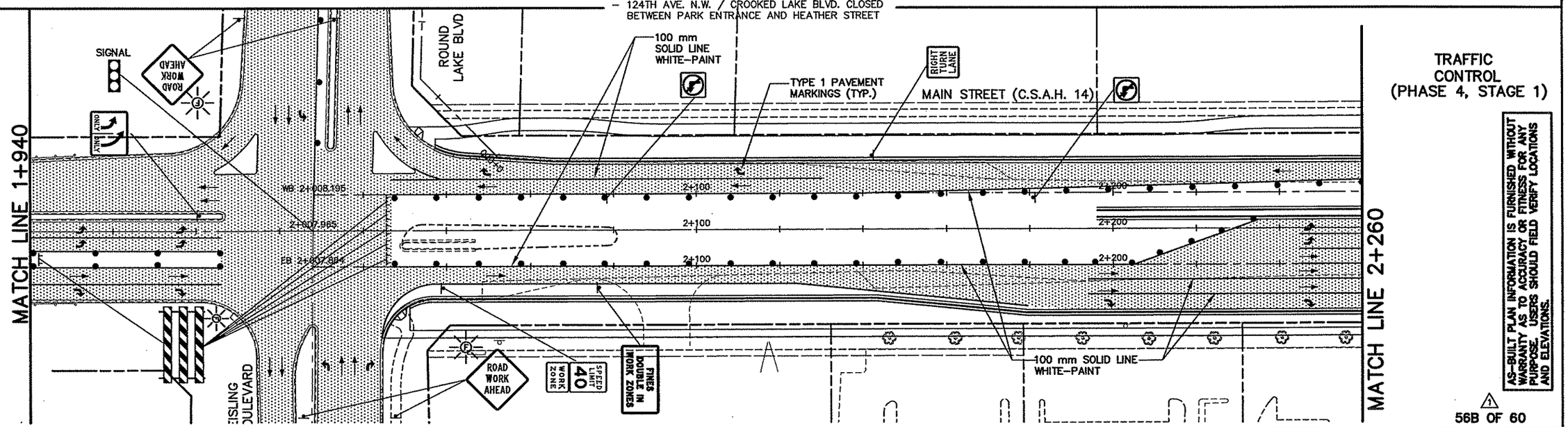
THE CONSTRUCTION STAGING PLAN INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO DETAILED PLAN FOR ADDITONAL INFO.

TRAFFIC:

- E.B. AND W.B. T.H. 10/47
- E.B. AND W.B. C.S.A.H. 14 / T.H. 242
- RAMPS A,B,C
- INPLACE RAMP FROM E.B. C.S.A.H. 14 TO GO E.B. T.H. 10/47
- 124TH AVE. N.W. / CROOKED LAKE BLVD. CLOSED BETWEEN PARK ENTRANCE AND HEATHER STREET

CONSTRUCTION:

- CROOKED LAKE BLVD. REALIGNMENT
- RAMP D, BETWEEN STATION 3+340.000 TO T.H. 10/47 ALSO, SOUTHERLY HALF RAMP D, BETWEEN MAIN STREET (C.S.A.H. 14) AND STATION 8+340.000
- REMAINING CONCRETE MEDIAN ON MAIN STREET (C.S.A.H. 14) BETWEEN STATION 2+200 AND ROUND LAKE BOULEVARD
- BITUMINOUS PAVING ON MAIN STREET (C.S.A.H. 14) ALONG BOTH SIDES OF SAID CONCRETE MEDIAN



TRAFFIC CONTROL (PHASE 4, STAGE 1)

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

56B OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND 1 ADD'L CONSTR/TRAFFIC CONTROL SHEET P4,S1
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP4S102
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
TRAFFIC CONTROL PLAN
STA. 1+940.000 TO STA. 2+260.000

CITY PROJECT 98–20

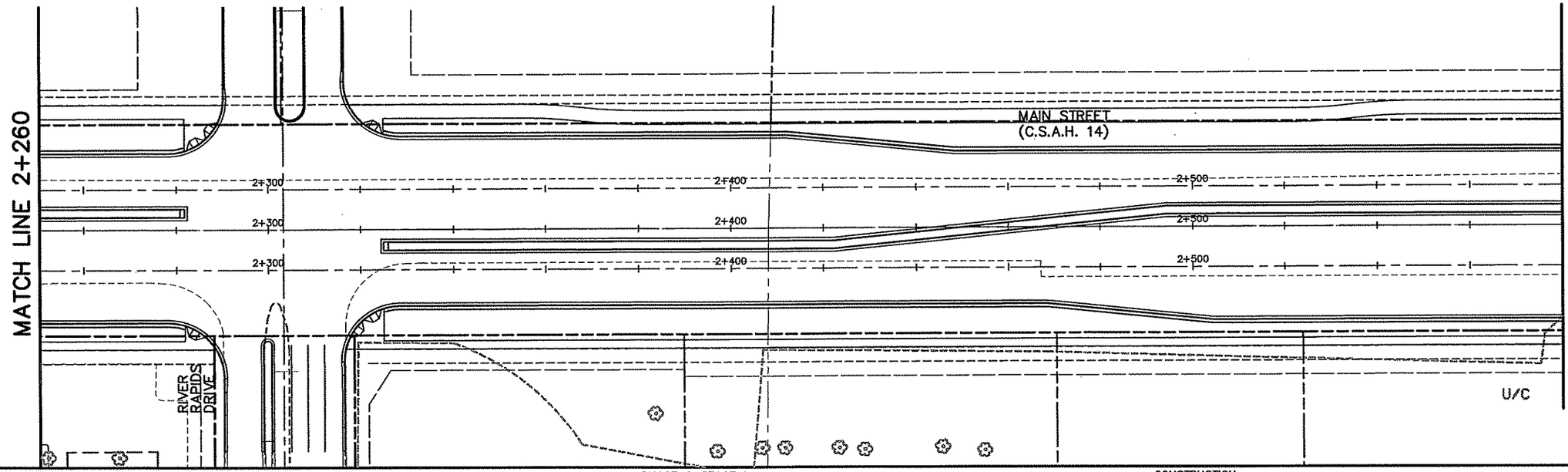
S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 108B / 539

PLOT DATE: Aug 26, 2004 6:08pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\TCP4S102.dwg

BOX
IPWP2S2
WP2S2
PLNW
-ALIW
-ESUM
MHVEG
MI
-E

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 4, STAGE 1)



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

PHASE 4, STAGE 1:

GENERAL:

THE CONSTRUCTION STAGING PLAN INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO DETAILED PLAN FOR ADDITONAL INFO.

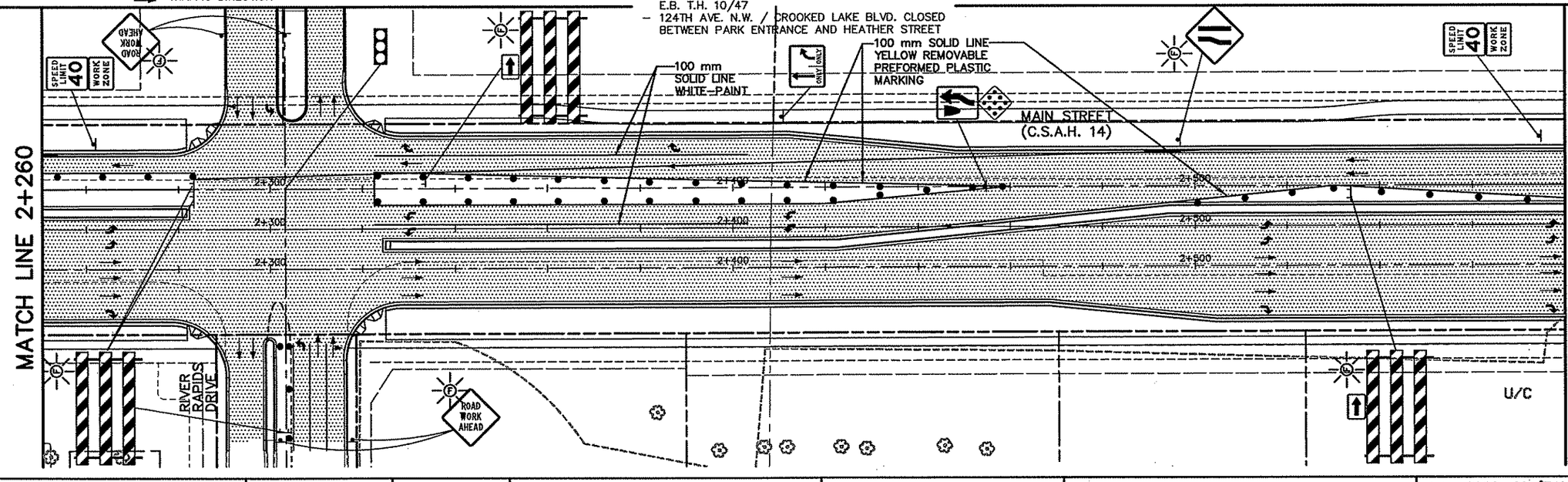
TRAFFIC:

- E.B. AND W.B. T.H. 10/47
- E.B. AND W.B. C.S.A.H. 14 / T.H. 242
- RAMPS A,B,C
- INPLACE RAMP FROM E.B. C.S.A.H. 14 TO GO E.B. T.H. 10/47
- 124TH AVE. N.W. / CROOKED LAKE BLVD. CLOSED BETWEEN PARK ENTRANCE AND HEATHER STREET

CONSTRUCTION:

- CROOKED LAKE BLVD. REALIGNMENT
- RAMP D, BETWEEN STATION 3+340.000 TO T.H. 10/47 ALSO, SOUTHERLY HALF RAMP D, BETWEEN MAIN STREET (C.S.A.H. 14) AND STATION 8+340.000
- REMAINING CONCRETE MEDIAN ON MAIN STREET (C.S.A.H. 14) BETWEEN STATION 2+200 AND ROUND LAKE BOULEVARD
- BITUMINOUS PAVING ON MAIN STREET (C.S.A.H. 14) ALONG BOTH SIDES OF SAID CONCRETE MEDIAN

TRAFFIC CONTROL (PHASE 4, STAGE 1)



AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

△1 56C OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND △1 ADD'L CONSTR/TRAFFIC CONTROL SHEET P4,S1
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP4S103
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+260.000 TO STA. 2+580.000

CITY PROJECT 98–20

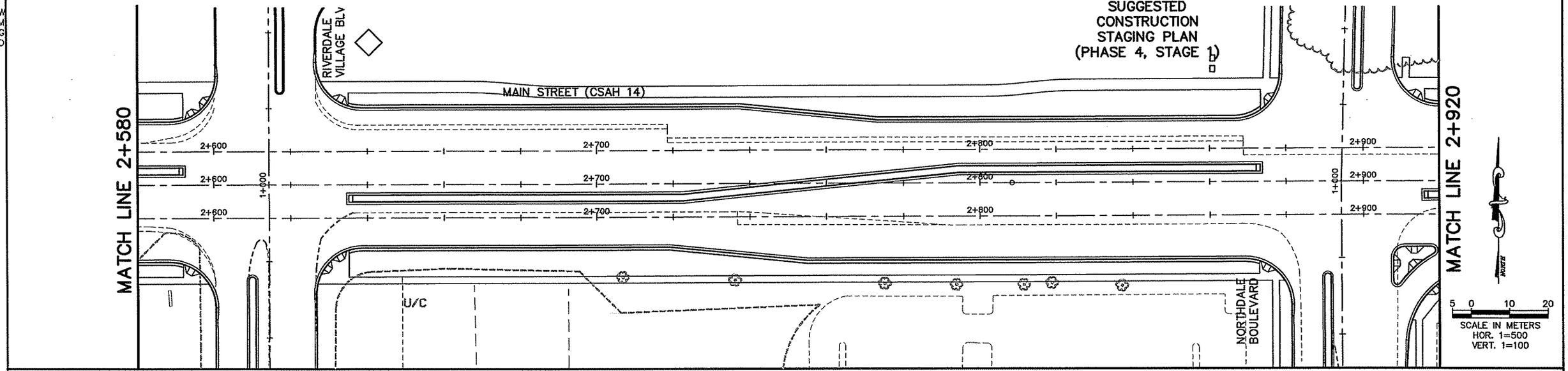
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 108C / 539

PLOT DATE: Aug 2..004 6:10pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...\AF–CON\Tcp4s103.dwg

242PLNW
242-ALIW
242-ESUM
242MHVEG
242MHETO
242-EUT

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 4, STAGE 1)



LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

- ① INPLACE, USE INPLACE
- ② INPLACE, MODIFY MESSAGE
- ③ REMOVE
- ④ SALVAGE
- ⑤ FURNISH AND INSTALL (F & I)
- ⑥ INSTALL

PHASE 4, STAGE 1:

GENERAL:

THE CONSTRUCTION STAGING PLAN INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO DETAILED PLAN FOR ADDITONAL INFO.

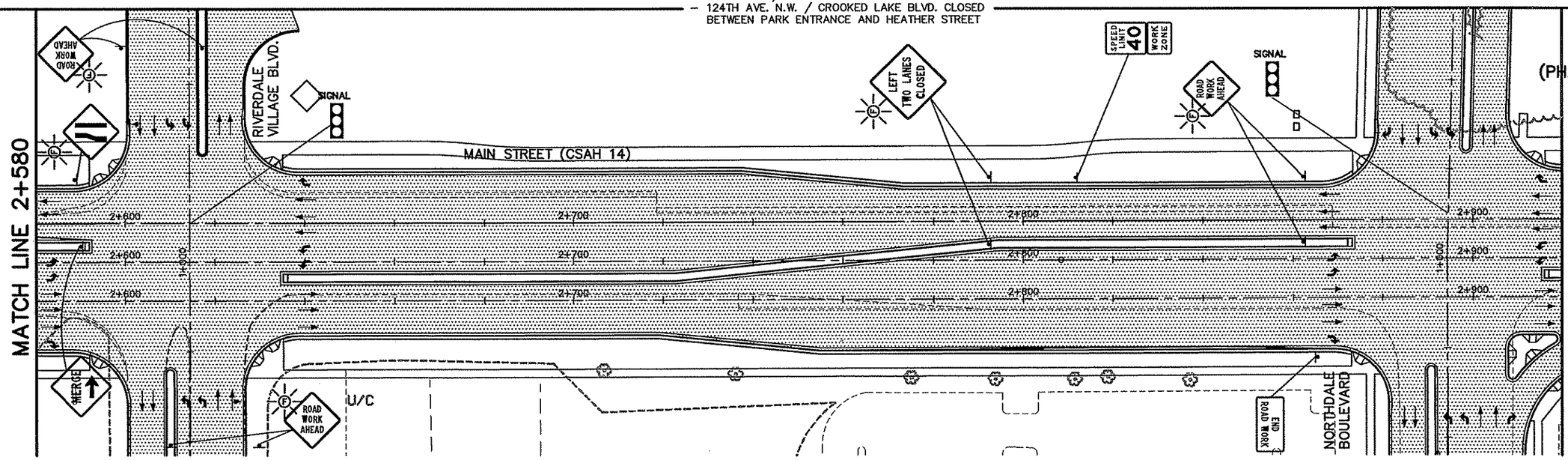
TRAFFIC:

- E.B. AND W.B. T.H. 10/47
- E.B. AND W.B. C.S.A.H. 14 / T.H. 242
- RAMPS A,B,C
- INPLACE RAMP FROM E.B. C.S.A.H. 14 TO GO E.B. T.H. 10/47
- 124TH AVE. N.W. / CROOKED LAKE BLVD. CLOSED BETWEEN PARK ENTRANCE AND HEATHER STREET

CONSTRUCTION:

- CROOKED LAKE BLVD. REALIGNMENT
- RAMP D, BETWEEN STATION 3+340.000 TO T.H. 10/47 ALSO, SOUTHERLY HALF RAMP D, BETWEEN MAIN STREET (C.S.A.H. 14) AND STATION 8+340.000
- REMAINING CONCRETE MEDIAN ON MAIN STREET (C.S.A.H. 14) BETWEEN STATION 2+200 AND ROUND LAKE BOULEVARD
- BITUMINOUS PAVING ON MAIN STREET (C.S.A.H. 14) ALONG BOTH SIDES OF SAID CONCRETE MEDIAN

TRAFFIC CONTROL (PHASE 4, STAGE 1)



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

56D OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MSL	2/11/00	ADDEND 1 ADD'L CONSTR/TRAFFIC CONTROL SHEET P4,S1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCP4S104
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CONSTRUCTION STAGING/TRAFFIC CONTROL PLAN
STA. 2+580.000 TO STA. 2+290.000

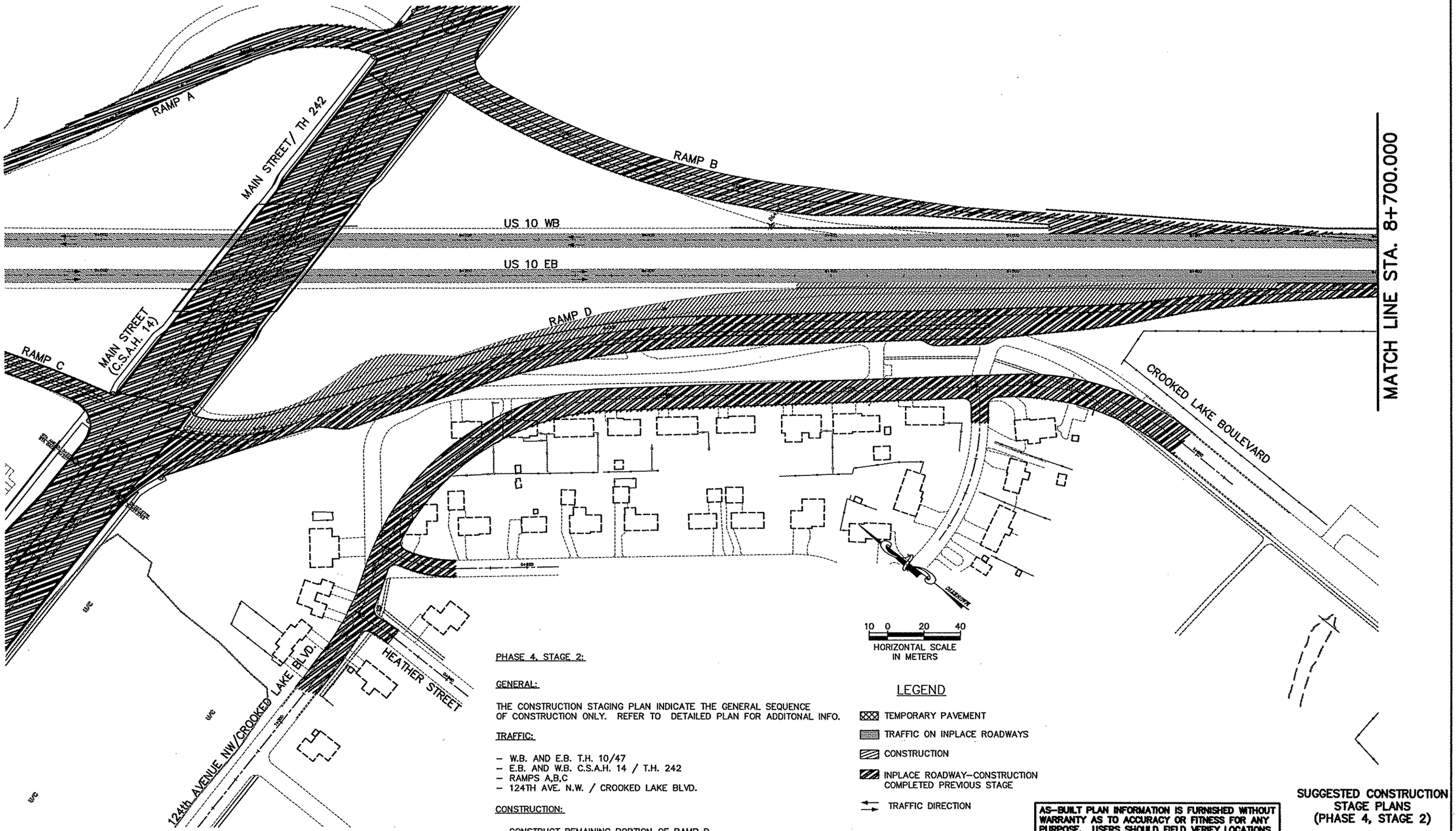
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 108D / 539

PLOT DATE: Aug 2, 04 6:11pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH F-CON\Tcp4s104.dwg

:ONP4S2
:42-ALIW
:APBOX
:42E-ALI
:42MHETO



PHASE 4, STAGE 2:

GENERAL:

THE CONSTRUCTION STAGING PLAN INDICATE THE GENERAL SEQUENCE OF CONSTRUCTION ONLY. REFER TO DETAILED PLAN FOR ADDITONAL INFO.

TRAFFIC:

- W.B. AND E.B. T.H. 10/47
- E.B. AND W.B. C.S.A.H. 14 / T.H. 242
- RAMPS A,B,C
- 124TH AVE. N.W. / CROOKED LAKE BLVD.

CONSTRUCTION:

- CONSTRUCT REMAINING PORTION OF RAMP D

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY-CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGE PLANS (PHASE 4, STAGE 2)

57 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCPXSX38
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP D, 124th/CROOKED LAKE BLVD.
CONSTRUCTION STAGING PLAN
STA. 8+350.000 TO STA. 9+050.000
STA. 1+320.000 TO STA. 1+890.000

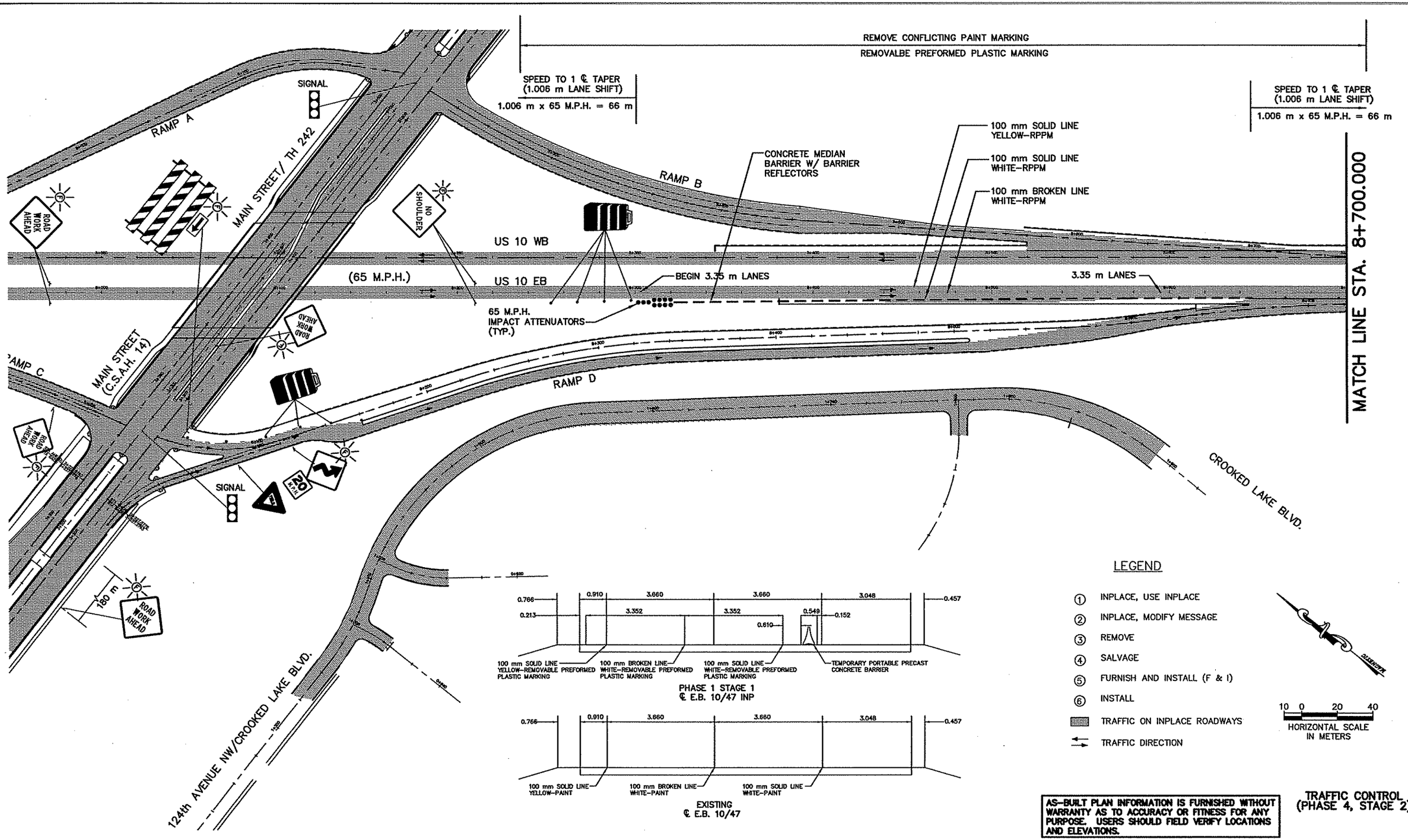
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 109 / 539

PLOT DATE: Dec 29, 1999 2:33pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\rAF-CON\Tcpxsx38.dwg

42-ALIW
APBOX
42E-ALI
42MHETO



LEGEND

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

10 0 20 40
HORIZONTAL SCALE
IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TRAFFIC CONTROL (PHASE 4, STAGE 2)

58 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: MSL
CHKED. BY: PBD/KPK
DWG. NAME: TCPXSX42
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP D, 124th/CROOKED LAKE BLVD.
TRAFFIC CONTROL PLAN
STA. 8+350.000 TO STA. 9+050.000
STA. 1+320.000 TO STA. 1+890.000

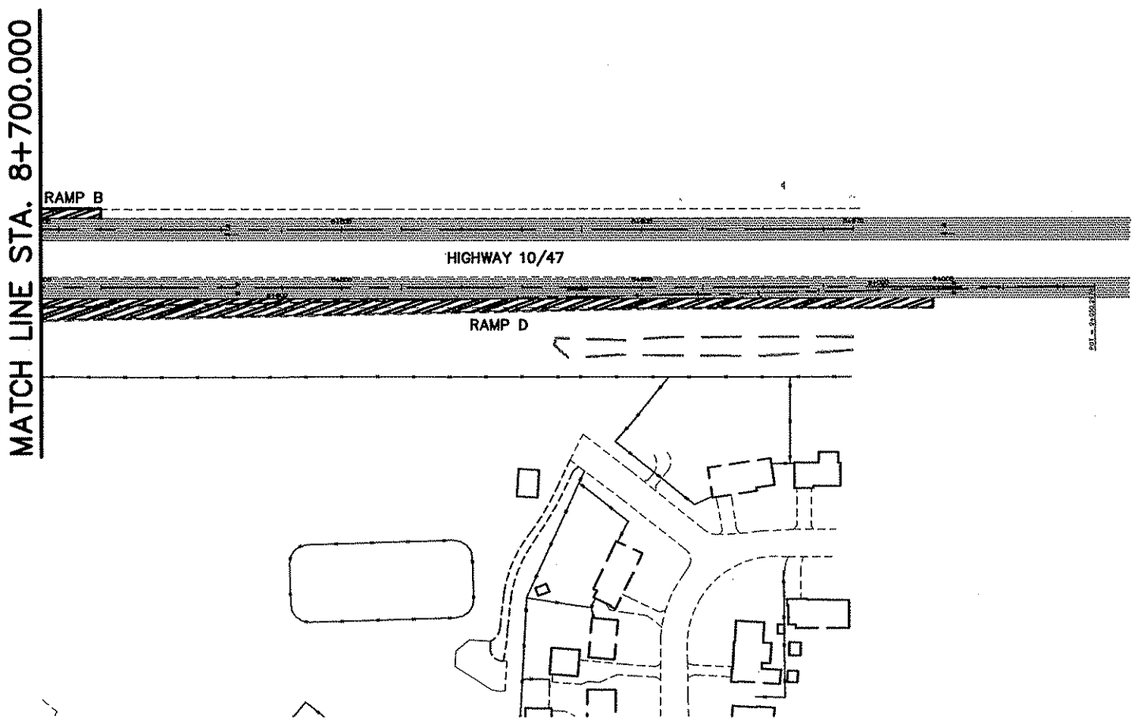
CITY PROJECT 98-20

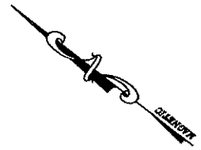
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 110 / 539

PLOT DATE: Jan 21, ...00 9:44am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SH...AF-CON\Tcpxsx42.dwg

REF DRAWINGS
APBOX
12E-ALI
12E-PLN
12MHETO





10 0 20 40
HORIZONTAL SCALE
IN METERS

LEGEND

- TEMPORARY PAVEMENT
- TRAFFIC ON INPLACE ROADWAYS
- CONSTRUCTION
- INPLACE ROADWAY–CONSTRUCTION COMPLETED PREVIOUS STAGE
- TRAFFIC DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SUGGESTED CONSTRUCTION STAGING PLAN (PHASE 4, STAGE 2)

59 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD | DWG. NAME: TCP1S102G
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
CONSTRUCTION STAGING PLAN
STA. 8+700.000 TO STA. 9+050.000

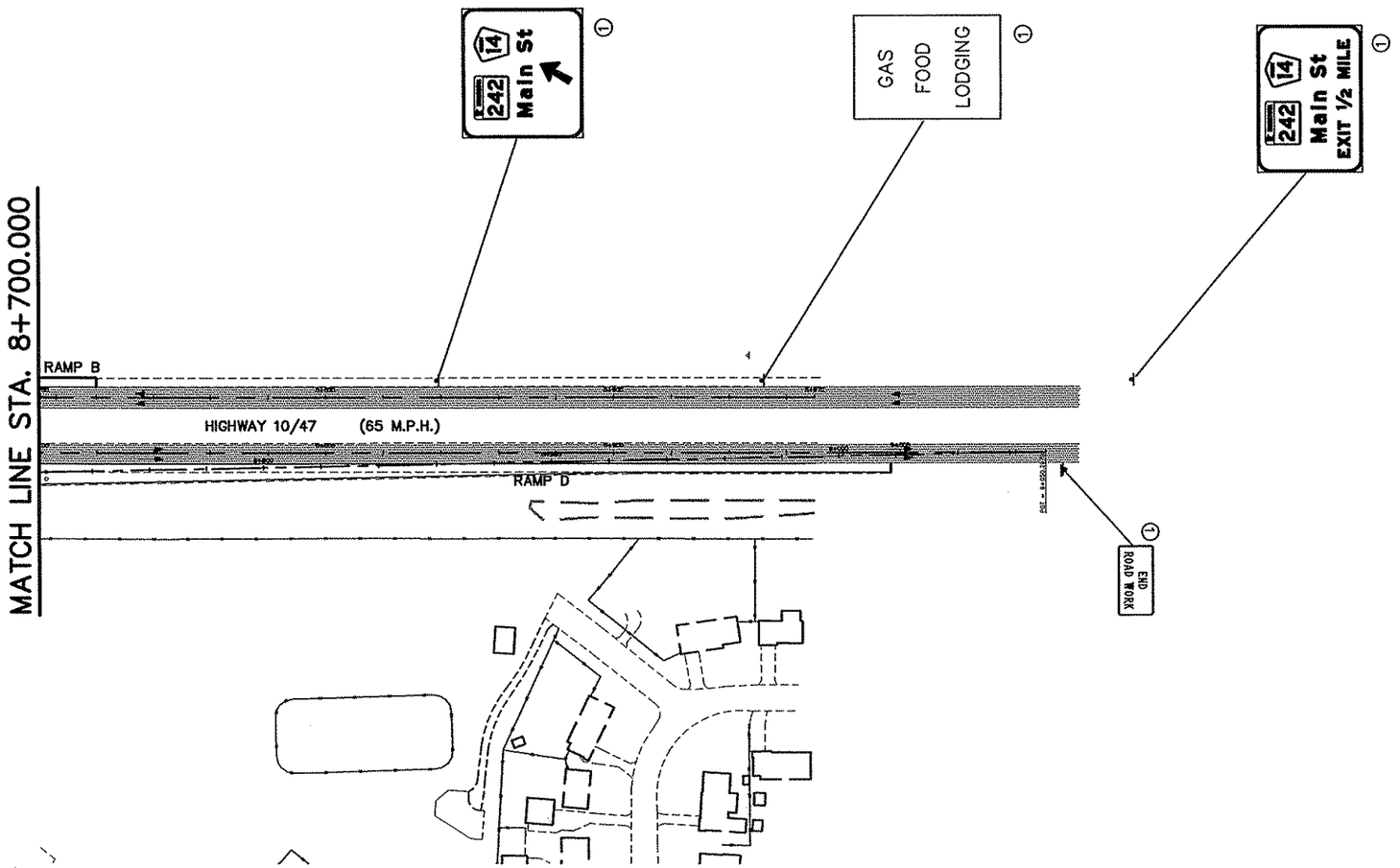
CITY PROJECT 98-20

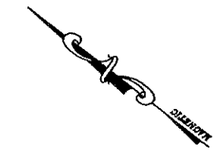
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 111 / 539

PLOT DATE: Dec 9 1999 9:08am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S...\AF-CON\Tcp1s102G.dwg

:APBOX
:42E-ALI
:42E-PLN
:42MHETO





LEGEND

1. INPLACE, USE INPLACE
2. INPLACE, MODIFY MESSAGE
3. REMOVE
4. SALVAGE
5. FURNISH AND INSTALL (F & I)
6. INSTALL

TRAFFIC ON INPLACE ROADWAYS

TRAFFIC DIRECTION

TRAFFIC CONTROL (PHASE 4, STAGE 2)

60 OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ | DESIGN BY: MSL
CHKED. BY: PBD | DWG. NAME: TCP1S102H
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

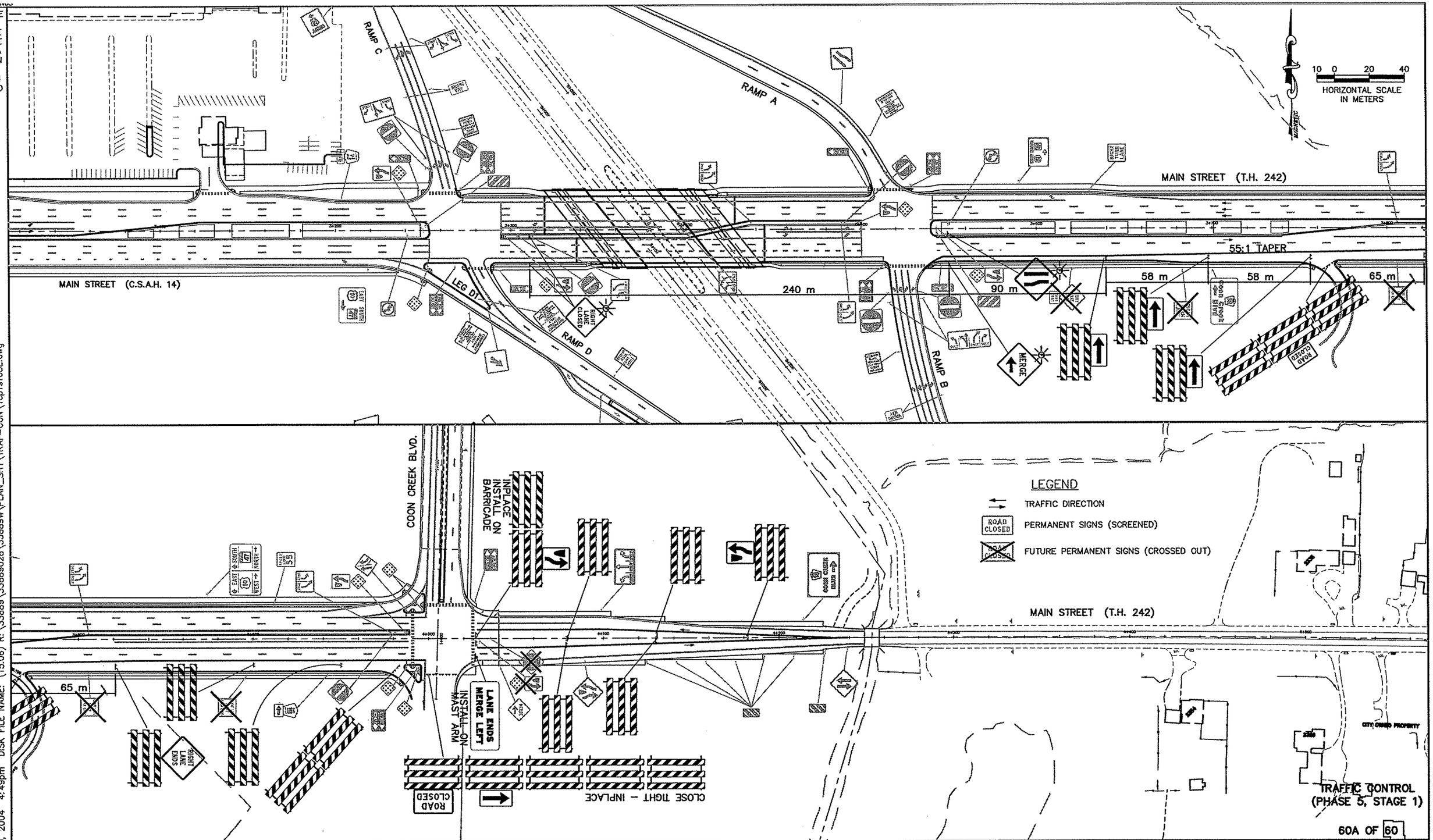
MAIN STREET/T.H. 242 RECONSTRUCTION
HIGHWAY 10/47
TRAFFIC CONTROL PLAN
STA. 8+700.000 TO STA. 9+050.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 112 / 539

PLOT DATE: Dec 29, 1999 1:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SH\TCPAF-CON\Tcp1s102H.dwg



TRAFFIC CONTROL (PHASE 5, STAGE 1)

60A OF 60

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	6/13/01	MOD. REQ. #77: ADD PLAN SHEET
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JJL | DESIGN BY: MSL
CHKED. BY: PBD/KPK | DWG. NAME: TCP1S105E
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
TRAFFIC CONTROL PLAN
STA. 3+680.000 TO STA. 4+480.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 112A / 539

PLOT DATE: Aug 10, 2004 4:49pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\TRAF-CON\Tcp1s105E.dwg

HORIZONTAL CONTROL:

THE HORIZONTAL CONTROL SHOWN ON THIS PLAN IS METRIC IN NAD 83 DATUM (1986 ADJUSTMENT), STATE PLANE MINNESOTA SOUTH ZONE, ANOKA COUNTY COORDINATES

VERTICAL CONTROL:

ELEVATIONS SHOWN ON THIS PLAN ARE METRIC AND ARE BASED ON MEAN SEA LEVEL, NGVD 29, DATUM ADJUSTED, AND TIED TO THE U.S. LEVEL NETWORK THROUGH THE FOLLOWING VERTICAL CONTROL BENCH MARKS:

MnDOT VERTICAL CONTROL MARKS: 0215 I 1970 ELEV. 270.308M SE CORNER TH242 BRIDGE 02011 OVER TH10/47
0212 A 1980 ELEV. 262.788M SE CORNER TH242 BRIDGE 3656 OVER COON CREEK

WB MAIN STREET (CSAH 14) STA. 2+008.194 = EXIST. C/L ROUND LAKE BOULEVARD (CSAH 9)

MAIN STREET (CSAH 14) B/L STA. 2+614.359 = C/L RIVERDALE VILLAGE BOULEVARD STA. 1+000.000
N 48 516.142
E 145 825.763

WESTBOUND MAIN STREET (CSAH 14)

EASTBOUND MAIN STREET (CSAH 14)

MAIN STREET (CSAH 14) BASELINE

BEGIN S.A.P. No. 02–614–19
BEGIN S.A.P. No. 114–020–19
MAIN STREET (CSAH 14) BASELINE
STA. 2+007.965

EB MAIN STREET (CSAH 14) STA. 2+007.864 = EXIST. C/L ROUND LAKE BOULEVARD (CSAH 9)

MAIN STREET (CSAH 14) B/L STA. 2+303.354 = C/L RIVER RAPIDS DRIVE STA. 1+000.000
N 48 515.495
E 145 514.758

RIVER RAPIDS DRIVE

RIVER VILLAGE BOULEVARD

MENARD's ENTRANCE

END S.A.P. No. 02–614–19
END S.A.P. No. 114–020–19
BEGIN S.P. No. 0212–40
BEGIN S.P. No. 114–010–11
MAIN STREET (CSAH 14/TH 242)
BASELINE STA. 3+211.698
N 48 517.888
E 146 423.098

MAIN STREET (CSAH 14) B/L STA. 2+894.300 = C/L NORTHDALE BOULEVARD STA. 1+000
N 48 516.837
E 146 105.703

124TH AVENUE NW/CROOKED LAKE BOULEVARD

242RAMPC

242RAMPA

242LEGD1

242RAMPD

0215 I

COON CREEK BOULEVARD C/L

COON CREEK C/L

242RAMPA

242RAMPB

242RAMPD

WESTBOUND MAIN STREET/TH 242

MAIN STREET/TH 242 BASELINE

EASTBOUND MAIN STREET/TH 242

PRIVATE DRIVE/FREE RT. TURN (TO MARCUS THEATRE SITE)

MAIN STREET/TH 242 B/L STA. 4+005.120 = C/L COON CREEK BLVD. STA. 1+000.000
N 48 520.380
E 147 216.534

MAIN STREET/TH 242 B/L STA. 4+003.599 = C/L ACCESS ROAD (BY OTHERS)
N 48 520.376
E 147 214.996

ACCESS ROAD (BY OTHERS)

END S.P. No. 0212–40
END S.P. No. 114–010–11
MAIN STREET/TH 242 BASELINE
STA. 4+248.576

0212 I

(60) Δ= 01°54'33" D= n/a R= 4000.000 m T= 66.648 m L= 133.284 m 90 km/h e = Normal Crown

(61) Δ= 01°37'08" D= n/a R= 3000.000 m T= 42.384 m L= 84.762 m 90 km/h e = Normal Crown

(62) Δ= 00°40'35" D= n/a R= 10 481.873 m T= 61.876 m L= 123.752 m 90 km/h e = Normal Crown

(320) Δ= 01°30'32" D= n/a R= 33.698 m T= 0.444 m L= 0.888 m 30 km/h e = 0.04 m/m

(321) Δ= 10°00'12" D= n/a R= 28.492 m T= 37.157 m L= 52.234 m 30 km/h e = 0.04 m/m

(30) Δ= 00°58'00" D= n/a R= 10 478.273 m T= 88.403 m L= 176.802 m 90 km/h e = Normal Crown

(40) Δ= 00°58'00" D= n/a R= 10 469.573 m T= 88.330 m L= 176.654 m 90 km/h e = Normal Crown

(41) Δ= 01°54'33" D= n/a R= 4000.000 m T= 66.648 m L= 133.284 m 90 km/h e = Normal Crown

(42) Δ= 01°54'33" D= n/a R= 3000.000 m T= 49.986 m L= 99.962 m 90 km/h e = Normal Crown

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

20 0 40 80
HORIZONTAL SCALE IN METERS

1 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED STATION FOR COON CREEK BLVD.
			MODIFIED NOTE FOR HORZ. & VERT. CONTROL
			ADDED 100 m COORDINATE GRID MARKS
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: 242EALN1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE 700 THIRD STREET SOUTH MINNEAPOLIS, MN 55415 (612)370–0700 (TEL) (612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

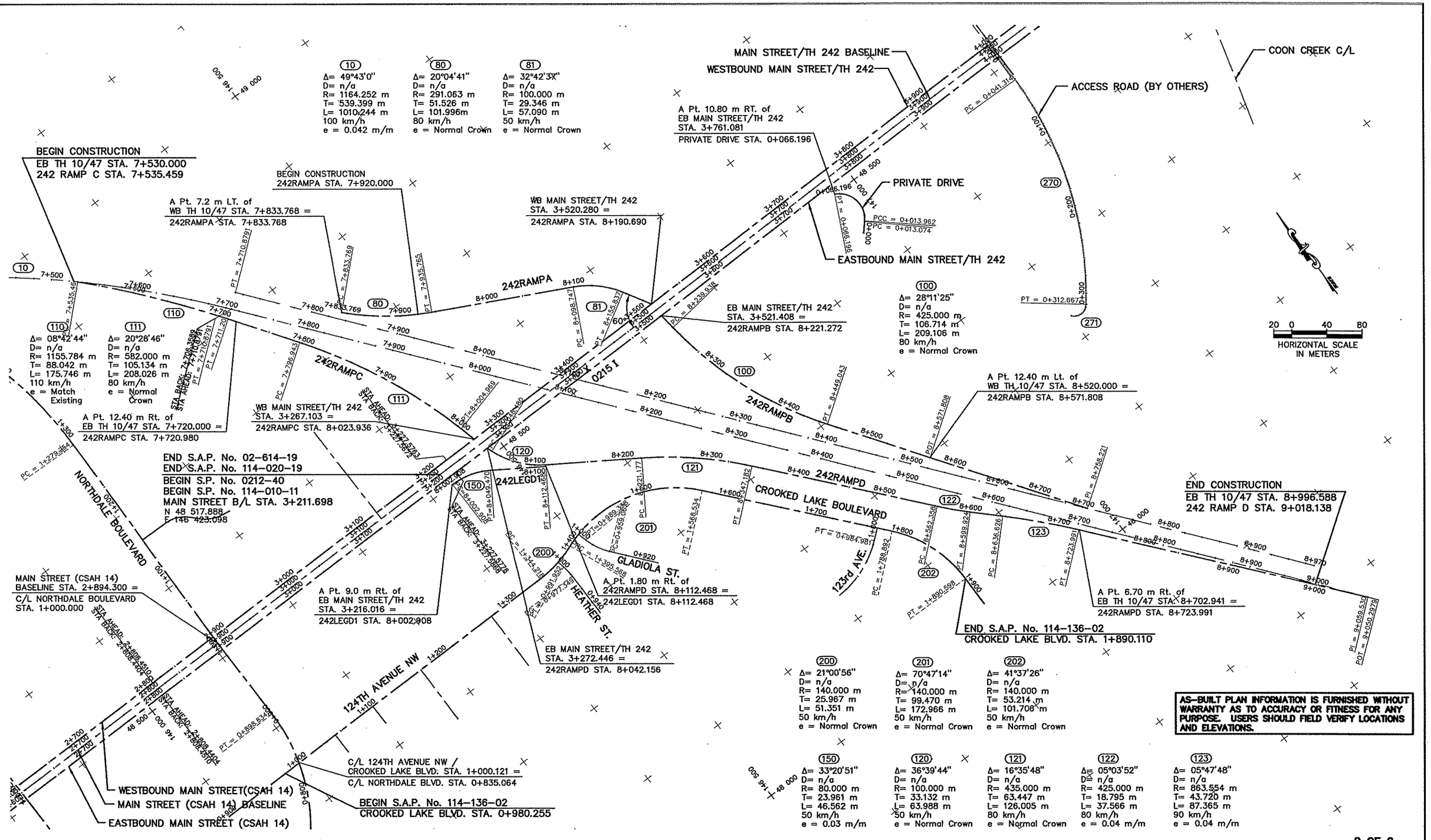
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
ALIGNMENT
ALIGNMENT LAYOUT

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 113 / 539

PLOT DATE: Aug 1, ...04 6:01pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\24...11.dwg



AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED 124th AVE. BEGIN STA.
			ADDED SUPERELEVATION TO RAMP D CURVE #122
			ADDED 100 m COORDINATE GRID MARKS
			ADDED CONTROL POINT
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: 242EALN2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

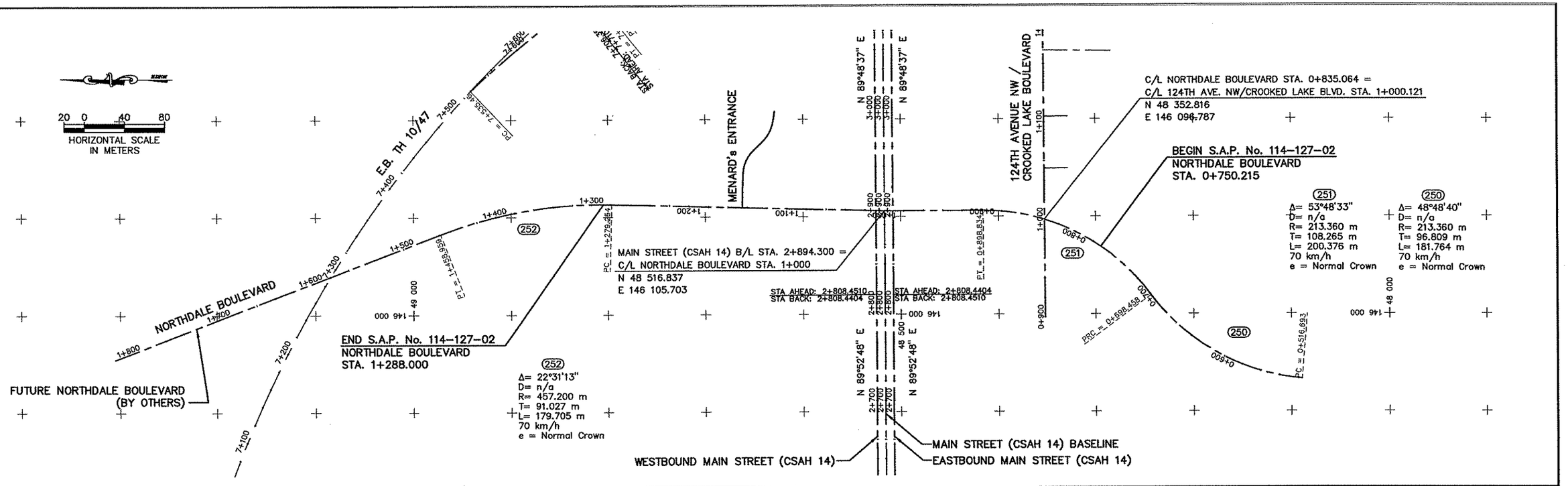
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
ALIGNMENT
ALIGNMENT LAYOUT

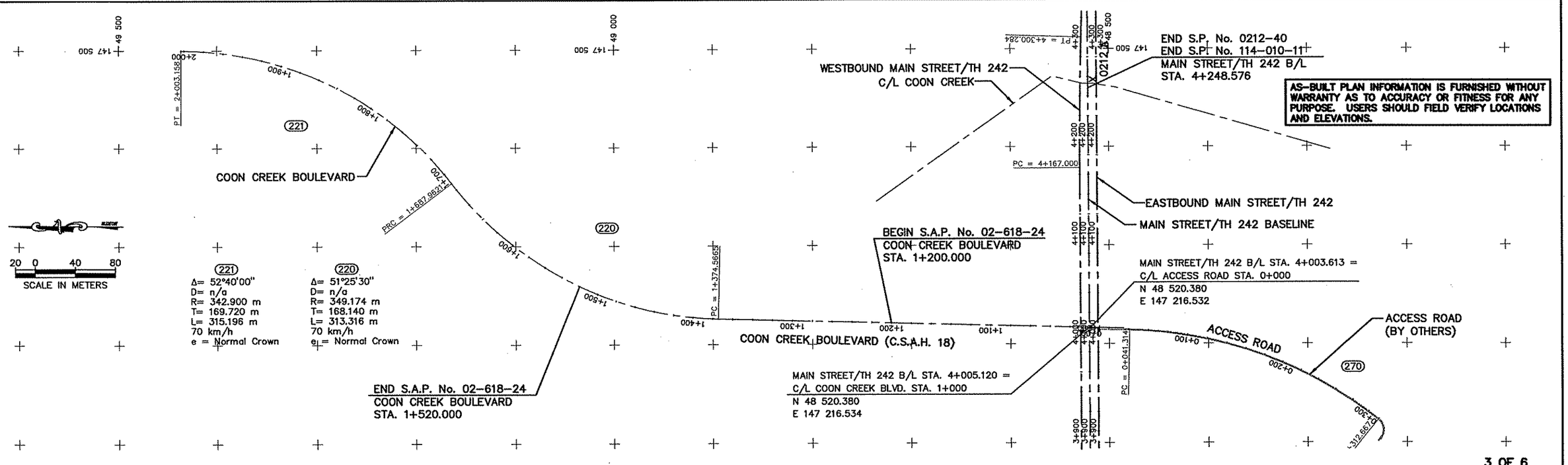
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 114 / 539

PLOT DATE: Dec 22, ...99 6:28pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\TABS\242e....dwg





3 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED 100 m COORDINATE GRID MARKS
			ADDED CONTROL POINT
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM
DESIGN BY: KPK
CHKED. BY: KPK/PDB
DWG. NAME: 242EALN6
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION NORTHDALE BLVD. & COON CREEK BLVD.

ALIGNMENT
ALIGNMENT LAYOUT

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 115 / 539

PLOT DATE: Dec 2, 99 6:28pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\TABS\24...d.dwg

SAPBOX

ALIGNMENT TABULATION

CURVE NO.	POINT NO.	POINT TYPE	STATION (km)	NOTES	CURVE DATA DELTA	R (m)	T (m)	L (m)	COORDINATES NORTH	EAST	AZIMUTH
MAIN STREET (C.S.A.H. 14/T.H. 242) BASELINE											
	30	PI	2+007.965	= C/L CSAH No. 9 (ROUND LAKE BOULEVARD)					48 514.876	145 219.370	89–52–48
	31	PI	2+808.446						48 516.553	146 019.849	89–48–37
	32	PI	3+227.577						48 517.940	146 438.978	89–49–13
(30)	33	PI	4+461.918						48 521.814	147 673.313	
	34	PC	4+373.515		00°58'00"	10 478.273	88.403	176.802	48 521.536	147 584.910	89–49–13
	35	RP							38 043.314	147 617.796	
	36	PT	4+550.317						48 520.600	147 761.708	90–47–13
	37	PI	5+237.117						48 511.167	148 448.443	
EASTBOUND MAIN STREET (C.S.A.H. 14/T.H. 242)											
	40	PI	2+007.864						48 506.176	145 219.288	89–52–48
	41	PI	2+808.440						48 507.853	146 019.872	89–48–37
			EQUATION:	BACK: 2+808.4510 = AHEAD: 2+808.4405							
	42	PI	3+227.578						48 509.240	146 439.006	89–49–13
			EQUATION:	BACK: 3+227.5868 = AHEAD: 3+227.5778							
(40)	43	PI	4+461.844						48 513.114	147 673.266	
	44	PC	4+373.515		00°58'00"	10 469.573	88.330	176.654	48 512.836	147 584.938	89–49–13
	45	RP							38 043.314	147 617.796	
	46	PT	4+550.170						48 511.900	147 761.588	88–52–40
(41)	47	PI	4+626.818						48 510.848	147 838.229	
	48	PC	4+560.170		01°54'33"	4000.000	66.648	133.284	48 511.763	147 771.587	88–52–40
	49	RP							52 511.386	147 826.524	
	50	PT	4+693.454						48 512.153	147 904.864	88–52–40
(42)	51	PI	4+779.890						48 513.846	147 991.284	
	52	PC	4+729.904		01°54'33"	3000.000	49.986	99.962	48 512.867	147 941.308	88–52–40
	53	RP							45 513.442	148 000.063	
	54	PT	4+829.868						48 513.160	148 041.266	90–47–13
			EQUATION:	BACK: 4+829.8768 = AHEAD: 4+829.9512							
	55	PI	4+900.000						48 512.197	148 111.308	
WESTBOUND MAIN STREET (C.S.A.H. 14/T.H. 242)											
	60	PI	2+008.194						48 523.576	145 219.581	89–52–48
	61	PI	2+808.451						48 525.253	146 019.825	89–48–37
			EQUATION:	BACK: 2+808.4404 = AHEAD: 2+808.4510							
	62	PI	3+227.576						48 526.640	146 438.950	89–49–13
			EQUATION:	BACK: 3+227.5672 = AHEAD: 3+227.5763							
(60)	63	PI	4+233.648						48 529.797	147 445.017	
	64	PC	4+167.000		01°54'33"	4000.000	66.648	133.284	48 529.588	147 378.369	89–49–13
	65	RP							44 529.608	147 390.923	
	66	PT	4+300.284						48 527.786	147 511.635	90–06–38
(61)	67	PI	4+384.314						48 525.250	147 595.626	
	68	PC	4+341.930		01°37'08"	3000.000	42.384	84.762	48 526.529	147 553.262	90–06–38
	69	RP							51 525.163	147 643.796	
	70	PT	4+426.692						48 525.168	147 638.010	90–47–13
(62)	71	PI	4+488.568						48 525.049	147 699.886	
	72	PC	4+426.692		00°40'35"	10 481.873	61.876	123.752	48 525.168	147 638.010	90–47–13
	73	RP							38 043.314	147 617.796	
	74	PT	4+550.316						48 524.199	147 761.757	90–47–13
			EQUATION:	BACK: 4+550.4346 = AHEAD: 4+550.3169							
	75	PI	4+900.000						48 519.396	148 111.407	
EXISTING EASTBOUND TH 10/47											
	1	PI	6+696.114						49 252.089	145 475.742	91–54–58
(10)	2	PI	7+235.513						49 234.054	146 014.840	
	3	PC	6+696.114		49°43'00"	1164.252	539.399	1010.244	49 252.089	145 475.742	91–54–58
	4	RP							48 088.488	145 436.816	
			EQUATION:	BACK: 7+706.358 = AHEAD: 7+710.879							
	5	PT	7+710.879						48 811.140	146 349.646	
	6	POT	9+050.298						47 760.972	147 181.024	141–37–58
EXISTING WESTBOUND TH 10/47											
			EQUATION:	BACK: 7+723.288 = AHEAD: 7+710.879							
	20	PI	7+710.879						48 823.248	146 364.940	141–37–58
	21	POT	8+970						47 836.037	147 146.478	
242 RAMP A											
	80	PI	7+833.768	A Pt. 7.826 m Lt. of WB TH 10/47 Sta. 7+833.768 (=257+01.29)					48 731.980	146 447.298	137–11–17
(80)	81	PI	7+885.295						48 694.180	146 482.316	
	82	PC	7+833.769		20°04'41"	291.063	51.526	101.996	48 731.980	146 447.298	117–06–36
	83	RP							48 929.784	146 660.819	
	84	PT	7+935.765						48 670.700	146 528.181	117–06–36
(81)	85	PI	8+128.094						48 583.055	146 699.379	
	86	PC	8+098.747		32°42'37"	100.000	29.346	57.090	48 596.428	146 673.257	117–06–36
	87	RP							48 507.415	146 627.686	
	88	PT	8+155.837						48 557.686	146 714.132	149–49–13
	89	POT	8+190.690	A Pt. 0 m Lt. of WB MAIN ST/TH 242 Sta. 3+520.280					48 527.558	146 731.652	149–49–13
	90	PI	8+200.736	A Pt. 0 m Lt. of MAIN ST/TH 242 B/L Sta. 3+525.304					48 518.874	146 736.703	

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: 242EALN3
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
ALIGNMENT
ALIGNMENT TABULATION

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 116 / 539

PLOT DATE: Jan 21, 2000 11:09am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\TABS\242ealn3.dwg

SAPBOX

ALIGNMENT TABULATION

CURVE NO.	POINT NO.	POINT TYPE	STATION (km)	NOTES	CURVE DATA DELTA	R (m)	T (m)	L (m)	COORDINATES NORTH	EAST	AZIMUTH
242 RAMP B											
	100	PI	8+212.521	A Pt. 0 m Rt. of MAIN ST/TH 242 B/L Sta. 3+520.466					48 518.859	146 731.865	173-38-13
	101	POT	8+221.272	A Pt. 0 m Rt. of EB MAIN ST/TH 242 Sta. 3+521.408					48 510.162	146 732.835	
(100)	102	PI	8+346.652						48 385.554	146 746.730	145-26-48
	103	PC	8+239.938		28°11'25"	425.000	106.714	209.106	48 491.611	146 734.904	173-38-13
	104	RP							48 538.712	147 157.286	
	105	PT	8+449.043						48 297.664	146 807.256	145-26-48
	106	POT	8+571.808	A Pt. 12.40 m Lt. of WB TH 10/47 Sta. 8+520.000					48 196.556	146 876.884	145-26-48
	107	PI	8+758.221	A Pt. 0 m Lt. of WB TH 10/47 Sta. 8+706.000					48 043.026	146 982.612	145-26-48
242 RAMP C											
	110	PI	7+535.458	A Pt. 0 m Lt. of EB TH 10/47 Sta. 7+529.477					48 940.966	146 229.762	136-44-04
	111	PI	7+623.501						48 876.855	146 290.105	145-26-48
(110)	110	PC	7+535.458		08°42'44"	1155.784	88.042	175.746	48 940.966	146 229.762	136-44-04
	112	RP							48 148.816	145 388.138	
	113	PT	7+711.204						48 804.344	146 340.040	145-26-48
	114	PI	7+720.980	A Pt. 12.40 m Rt. of EB TH 10/47 Sta. 7+720.000					48 796.292	146 345.585	145-26-48
	115	PI	7+902.078						48 647.140	146 448.298	165-55-34
(111)	116	PC	7+796.943		20°28'46"	582.000	105.134	208.026	48 733.728	146 388.669	145-26-48
	117	RP							48 403.634	145 909.334	
	118	PT	8+004.969						48 545.161	146 473.864	165-55-34
	119	P.O.T.	8+023.936	A Pt. 0 m Lt. of WB MAIN ST/TH 242 Sta. 3+267.103					48 526.764	146 478.476	165-55-34
	120	PI	8+032.898	A Pt. 0 m Lt. of MAIN ST/TH 242 B/L Sta. 3+269.255					48 518.070	146 480.656	165-55-34
242 RAMP D											
	121	PI	8+032.898	A Pt. 0 m Rt. of MAIN ST/TH 242 B/L Sta. 3+269.279					48 518.070	146 480.680	159-49-13
	122	POT	8+042.156	A Pt. 0 m Rt. of EB MAIN ST/TH 242 Sta. 3+272.446					48 509.380	146 483.874	159-49-13
(120)	123	PI	8+081.612						48 472.347	146 497.484	123-09-29
	124	PC	8+048.480		36°39'44"	100.000	33.132	63.988	48 503.445	146 486.055	159-49-13
	125	RP							48 537.942	146 579.916	
	126	PT	8+112.468	A Pt. 1.80 m Lt. of 242 LEG D1 Sta. 8+112.468					48 454.226	146 525.222	123-09-29
(121)	127	PI	8+284.624						48 360.064	146 669.345	139-45-17
	128	PC	8+221.177		16°35'48"	435.000	63.447	126.005	48 394.766	146 616.230	123-09-29
	129	RP							48 030.600	146 378.306	
	130	PT	8+347.182						48 311.636	146 710.336	139-45-17
(122)	131	PI	8+581.153						48 133.050	146 861.495	134-41-25
	132	PC	8+562.358		05°03'52"	425.000	18.795	37.566	48 147.396	146 849.352	139-45-17
	133	RP							48 421.972	147 173.748	
	134	PT	8+599.924						48 119.832	146 874.856	134-41-25
	135	PI	8+680.345						48 063.274	146 932.030	140-29-13
(123)	136	PC	8+636.626		05°47'48"	863.554	43.720	87.365	48 094.020	146 900.949	134-41-25
	137	RP							47 480.104	146 293.634	
	138	PT	8+723.991	A Pt. 6.70 m Rt. of EB TH 10/47 Sta. 8+702.439					48 029.544	146 959.847	140-29-13
	138	POT	9+059.530	A Pt. 0 m Rt. of EB TH 10/47 Sta. 9+037.911					47 770.684	147 173.336	140-29-13
242 LEG D1											
	160	PI	8+002.908	A Pt. 9.0 m Rt. of EB MAIN ST/TH 242 Sta. 3+216.016					48 500.212	146 427.476	89-48-37
	161	PI	8+026.869						48 500.281	146 451.437	123-09-29
(150)	162	PC	8+002.908		33°20'51"	80.000	23.961	46.562	48 500.202	146 427.476	89-48-37
	163	RP							48 420.202	146 427.741	
	164	PT	8+049.470						48 487.176	146 471.497	123-09-29
	165	PI	8+112.468	A Pt. 1.80 m Rt. of 242RAMPD Sta. 8+112.468					48 452.718	146 524.237	123-09-29
COON CREEK BOULEVARD (C.S.A.H. 18)											
	219	P.O.T.	0+965.256						48 485.647	147 215.656	01-25-15
	220	P.O.T.	1+000.000	= MAIN STREET/TH 242 BASELINE Sta. 4+005.120					48 520.380	147 216.517	01-25-15
	221	PI	1+374.566						48 894.832	147 225.804	01-25-15
(220)	222	PI	1+542.706						49 062.920	147 229.974	52-50-45
	223	PC	1+374.566		51°25'30"	349.174	168.140	313.396	48 894.832	147 225.804	01-25-15
	224	RP							48 886.174	147 574.871	
	225	PT	1+687.962						49 164.469	147 363.984	52-50-45
(221)	226	PI	1+857.682						49 266.974	147 499.253	0-10-45
	227	PC	1+687.962		52°40'00"	342.900	169.720	315.196	49 164.469	147 363.984	
	228	RP							49 437.766	147 156.884	
	229	PT	2+003.158						49 436.694	147 499.784	0-10-45
ACCESS ROAD (BY OTHERS)											
	270	PI	0+000	=MAIN STREET/TH 242 B/L Sta. 4+003.613					48 520.697	147 251.004	181-25-21
	271	PI	0+181.945						48 338.808	147 210.487	218-32-48
(270)	272	PC	0+041.314		37°07'26"	418.796	140.631	271.353	48 479.396	147 213.978	181-25-21
	273	RP							48 489.794	146 795.312	
	274	PT	0+312.667						48 228.820	147 122.852	
	275	PI	0+329.933						48 215.316	147 112.092	321-37-17
(271)	276	PC	0+312.667		103°04'29"	13.716	17.266	24.675	48 228.820	147 122.852	
	277	RP							48 237.368	147 112.125	
	278	PT	0+337.342						48 228.852	147 101.372	

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: 242EALN4
DATE: NOVEMBER 5, 1999

XREF DRAWINGS

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
ALIGNMENT
ALIGNMENT TABULATIONS

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 117 / 539

PLOT DATE: Jan 21, 00 11:09am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\TABS\242...4.dwg

SAPBOX

ALIGNMENT TABULATION

CURVE NO.	POINT NO.	POINT TYPE	STATION (km)	NOTES	CURVE DATA DELTA	R (m)	T (m)	L (m)	COORDINATES NORTH	EAST	AZIMUTH
NORTHDALE BOULEVARD											
	250	PI	0+516.693						48 089.300	145 933.176	04–48–30
(250)	251	PI	0+613.502						48 185.768	145 941.292	53–37–10
	252	PC	0+516.693		48°48'40"	213.360	96.809	181.764	48 089.230	145 933.176	53–37–10
	253	RP							48 071.414	146 145.786	
	254	PT	0+698.458						48 243.190	146 019.232	53–37–10
(251)	255	PI	0+806.722						48 307.406	146 106.396	359–48–37
	256	PC	0+698.458		53°48'33"	213.360	108.265	200.376	48 243.190	146 019.232	359–48–37
	257	RP							48 414.965	145 892.679	
	258	P.O.C.	0+835.064	= 124TH AVE NW/CROOKED LAKE BLVD. Sta. 1+000.121					48 352.816	146 096.787	359–48–37
	259	PT	0+898.834						48 415.672	146 106.038	359–48–37
	260	PI	1+000.000	= MAIN STREET/TH 242 BASELINE Sta. 2+894.300					48 516.837	146 105.703	01–29–10
(252)	261	PI	1+370.282						48 886.994	146 115.306	338–57–56
	262	PC	1+279.254		22°31'13"	457.200	91.027	179.705	48 795.997	146 112.946	338–57–56
	263	RP							48 807.854	145 655.899	
	264	PT	1+458.959						48 971.956	146 082.634	338–57–56
	265	PI	1+815.826						49 305.043	145 954.545	338–57–56
124TH AVENUE NW/CROOKED LAKE BOULEVARD											
	200	PI	0+900.000						48 352.479	145 996.666	89–48–26
	201	P.O.T.	1+000.121	= NORTHDALE BOULEVARD C/L Sta. 0+835.064					48 352.816	146 096.787	89–48–26
(200)	202	PI	1+370.185						48 354.060	146 466.848	68–47–30
	203	PC	1+344.218		21°00'56"	140.000	25.967	51.351	48 353.974	146 440.881	89–48–26
	204	RP							48 493.972	146 440.410	
	205	PT	1+395.568						48 363.454	146 491.056	68–47–30
(201)	206	PI	1+495.038						48 399.439	146 583.789	139–34–44
	207	PC	1+395.568		70°47'14"	140.000	99.470	172.966	48 363.454	146 491.056	68–47–30
	208	RP							48 232.937	146 541.703	
	209	PT	1+568.534						48 323.712	146 648.285	139–34–44
(202)	210	PI	1+842.106						48 115.442	146 825.668	181–12–10
	211	PC	1+788.892		41°37'26"	140.000	53.214	101.706	48 155.955	146 791.164	139–34–44
	212	RP							48 065.179	146 684.582	
	213	PT	1+890.598						48 062.240	146 824.552	181–12–10
	214	PI	1+925.890						48 026.955	146 823.810	181–12–10
RIVER RAPIDS DRIVE											
	170	PI	0+800.000						48 315.495	145 515.177	359–52–48
	171	P.O.T.	1+000.000	= MAIN STREET/TH 242 BASELINE Sta. 2+303.354					48 515.495	145 514.758	
	172	PI	1+080.000						48 595.494	145 514.590	
RIVERDALE VILLAGE BOULEVARD											
	180	PI	0+800.000						48 316.142	145 826.182	359–52–48
	181	P.O.T.	1+000.000	= MAIN STREET/TH 242 BASELINE Sta. 2+614.359					48 516.142	145 825.763	
	182	PI	1+100.000						48 616.141	145 825.554	
HEATHER STREET	320	PI	0+925.242						48 282.388	146 471.648	0–15–17
(320)	321	PI	0+984.677						48 341.823	146 471.912	348–18–09
	322	PC	0+977.349		11°57'08"	70.000	7.328	14.602	48 334.496	146 471.879	0–15–17
	323	RP							48 334.806	146 401.880	
	324	PT	0+991.952						48 348.998	146 470.426	348–18–09
	325	POT	1+000.000	= 124TH AVENUE NW C/L Sta. 1+372.329					48 356.880	146 468.794	348–18–09
	326	PI	1+020.000						48 376.464	146 464.740	348–18–09
GLADIOLA STREET	340	PI	0+902.994						48 287.989	146 558.309	320–37–33
(340)	341	PI	0+974.443						48 343.221	146 512.982	345–24–11
	342	PC	0+959.067		24°46'38"	70.000	15.376	30.271	48 331.335	146 522.737	320–37–33
	343	RP							48 375.742	146 576.848	
	344	PT	0+989.338						48 358.100	146 509.108	345–24–11
	345	POT	1+000.000	= 124TH AVENUE NW C/L Sta. 1+411.723					48 368.418	146 506.421	345–24–11
	346	PI	1+020.000						48 387.772	146 501.380	345–24–11
123RD AVENUE NW	300	PI	0+910.107						48 133.636	146 699.554	88–08–05
(300)	301	PI	0+948.942						48 134.900	146 738.368	50–36–35
	302	PC	0+910.107		37°31'31"	114.322	38.834	74.874	48 133.636	146 699.554	88–08–05
	303	RP							48 247.896	146 695.833	
	304	PT	0+984.980						48 159.544	146 768.382	50–36–35
	305	POT	1+000.000	= CROOKED LAKE BOULEVARD C/L Sta. 1+771.656					48 169.076	146 779.990	50–36–35
	306	PI	1+040.000						48 194.460	146 810.903	50–36–35
PRIVATE DRIVE	320	PI	0+000.000						48445.435	146971.856	42–25–24
	321	PI	0+013.074						48455.086	146980.676	42–52–38
(320)	322	PI	0+013.518						48455.412	146980.978	41–22–06
	323	PC	0+013.074		01°30'32"	33.698	0.444	0.888	48455.086	146980.676	41–22–06
	324	RP							48478.016	146955.982	
	325	PT	0+013.962						48455.744	146981.272	
	326	PI	0+013.962						48455.744	146981.272	296–20–56
(321)	327	PI	0+051.119						48483.622	147005.838	
	328	PC	0+013.962		10°0'12"	28.492	37.157	52.234	48455.744	146981.272	296–20–56
	329	RP							48474.582	146959.894	
	330	PT	0+066.196						48500.114	146972.540	
	331	PI	0+066.196	= EB MAIN STREET STA. 3+761.081, 10.80 m RT.					48500.114	146972.540	

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

6 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED 124th AVE. STA.=NORTHDALE BLVD. STA.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: 242EALN5
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
ALIGNMENT
ALIGNMENT TABULATION

CITY PROJECT 98–20

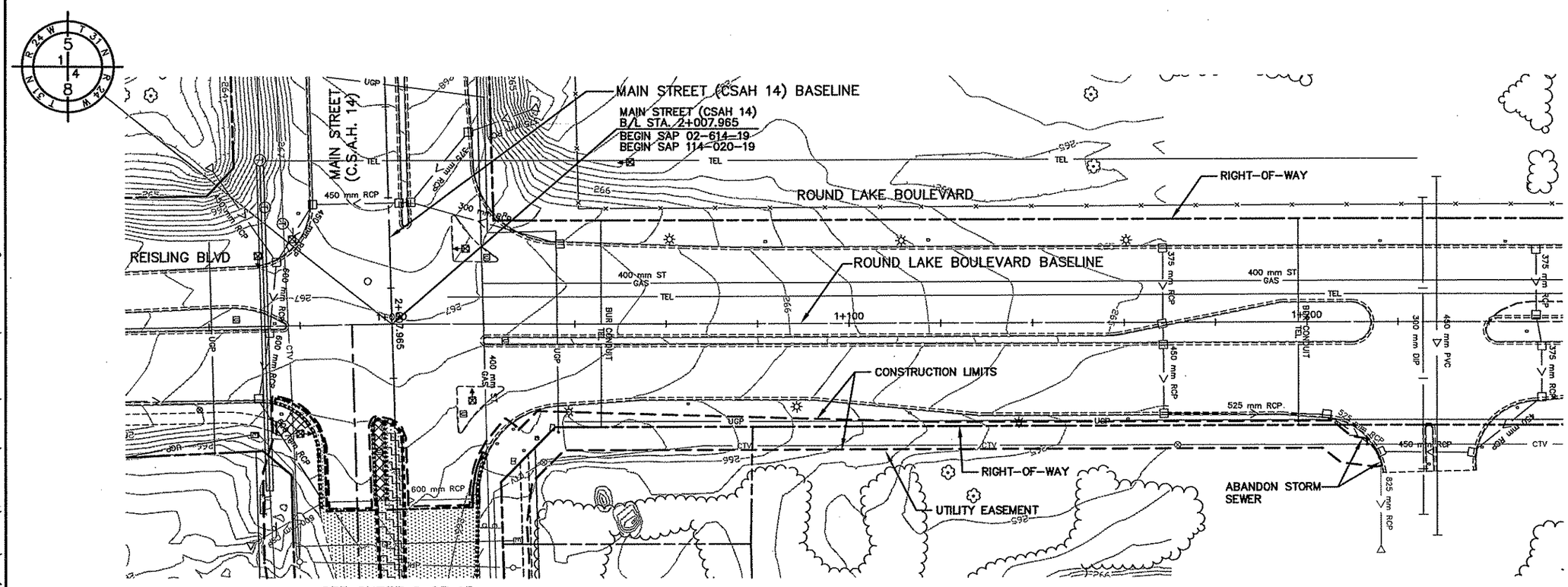
S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 118 / 539

PLOT DATE: Jan 21, 2000 11:10am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\TABS\242e...5.dwg

REF DRAWINGS

\PBOX
\2CLM-W
\MW-HAT
\2-ALIW
\2MHVEG
\2MHFCN
\2E-ESUM
\2-EUT
\2MHETO



SEE SHEET 2 OF 15

LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED STREET NAME TO BEGIN STA. DELETED NOTE RE: REMOVE STORM PIPE 1+218, RT.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/JRJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: RONDRE01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
ROUND LAKE BOULEVARD (CSAH 9)
EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
STATION 1+000.000 TO STATION 1+255.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 119 / 539

PLOT DATE: Jan 13, 2000 10:55am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH\RONDRE01.dwg

REF DRAWINGS

242_GRID
APBOX
242CLM-W
CMW-HAT
242PLNW
242MHECN
242
242
242MHETO
242-EUT

SEE SHEET 1 OF 15

ROUND LAKE BOULEVARD
REISLING BLVD.
MAIN STREET (C.S.A.H. 14)
MAIN STREET BASELINE
MATCH LINE 2+260

ADJUST HANDHOLE (2)
REMOVE CONCRETE CURB AND GUTTER
REMOVE CATCH BASIN
SALVAGE SIGNS(2) (TYPE C)
SALVAGE SIGN (TYPE C)
TEMPORARY CONSTRUCTION EASEMENT
CONSTRUCTION LIMITS
RIGHT-OF-WAY
SALVAGE SIGNS(2) (TYPE C)
REMOVE SEWER PIPE (STORM)
MILL BITUMINOUS 0.7 m WIDE (50 mm DEPTH)
SALVAGE SIGNS(4) (TYPE C)
SALVAGE DELINEATOR
REMOVE SEWER PIPE (STORM)
REMOVE BITUMINOUS CURB
2+007.965
REMOVE CONCRETE MEDIAN
BEGIN S.A.P. NO. 02-614-19
BEGIN S.A.P. NO. 114-020-19
MAIN ST.(CSAH 14) STA. 2+007.965
REMOVE CONCRETE CURB AND GUTTER
SALVAGE SIGN (TYPE C)
SAWING BIT. PAVEMENT (FULL DEPTH)
REMOVE BITUMINOUS SHOULDER PAVEMENT
REMOVE EARTHEN MEDIAN
ADJUST HANDHOLE
SAW CONCRETE PAVEMENT (FULL DEPTH)
REMOVE SEWER PIPE TO EASEMENT LINE (STORM)
REMOVE CATCH BASIN
REMOVE CONCRETE CURB AND GUTTER
REMOVE CONCRETE WALK
REMOVE GRAVEL DRIVEWAY
CONSTRUCTION LIMITS
PROTECT SIGN
TEMPORARY CONSTRUCTION EASEMENT
REMOVE BITUMINOUS PAVEMENT
SALVAGE SIGNS (2) (TYPE C)
RIGHT-OF-WAY
MAIN STREET BASELINE

LEGEND
- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS

MATCH LINE 2+580

TEMPORARY CONSTRUCTION EASEMENT
REMOVE GRAVEL DRIVEWAY
REMOVE BIT DRIVEWAY
RIVER RAPIDS DRIVE BASELINE
RIGHT-OF-WAY
CONSTRUCTION LIMITS
PLANTING EASEMENT
TRAIL EASEMENT
SALVAGE SIGN (TYPE C)
REMOVE BIT. PAVEMENT
MAIN STREET (C.S.A.H. 14)
SALVAGE SIGN (TYPE C)
SALVAGE SIGNS(2) (TYPE C)
SALVAGE SIGN (TYPE C)
SALVAGE SIGN (TYPE C)
SALVAGE SIGNS(2) (TYPE C)
TRAIL EASEMENT
PLANTING EASEMENT
T.C.E.
MILL BITUMINOUS 0.7 m WIDE (50 mm DEPTH)
TRAIL EASEMENT
RIGHT-OF-WAY
PLANTING EASEMENT
TEMPORARY CONSTRUCTION EASEMENT
MAIN STREET BASELINE
REMOVE BITUMINOUS SHOULDER PAVEMENT
SALVAGE SIGN (TYPE C)
SALVAGE SIGN (TYPE D)

SEE SHEET 15 OF 15

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED TH 242 TO CSAH 14 AT BEGN STA.
			REVISE NOTE RE: PIPE REMOVAL @ 2+055, RT
			CLARIFIED EASEMENTS SW QUAD RIVER RAPIDS DR.
2	JJL	7/12/00	MOD. REQ. #40: MOD. REMOVAL LIMITS
3	JJL	6/14/01	MOD. REQ. #90: ADDED ADJUST HANDHOLE
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242RE01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
EXISTING TOPOGRAPHY, UTILITIES AND REMOVALS
STATION 2+007.965 TO STATION 2+580.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 120 / 539

PLOT DATE: Apr 04, 2004 3:23pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHEET ENGRING\242re01.dwg

REF DRAWINGS

IOX
W-HAT
GRID
IHEON
LM-W
ALIW
ESUM
IHVEG
IHETO
EU

SEE SHEET 15 OF 15

MATCH LINE 2+580

PLANTING EASEMENT
SALVAGE SIGN (TYPE C)
GRAVEL SHOULDERS
MAIN STREET (C.S.A.H. 14)
SALVAGE SIGN (TYPE C)
REMOVE BITUMINOUS PAVEMENT
SALVAGE SIGN(2) (TYPE C)
SALVAGE SIGNS (2) (TYPE C)
SALVAGE SIGNS (2) TYPE C
REMOVE BITUMINOUS SHOULDER PAVEMENT
BITUMINOUS PAVEMENT
SALVAGE SIGN (TYPE C)
ADJUST VALVE
RIGHT-OF-WAY
PROTECT SIGN
MAIN STREET BASELINE
PROTECT SIGN
SALVAGE SIGN
CONSTRUCTION LIMITS
PLANTING EASEMENT
RIVERDALE BLVD
RIVERDALE BOULEVARD

SEE SHEET 15 OF 15
SEE SHEET 12 OF 15

MATCH LINE 2+920

LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS

MATCH LINE 2+920

SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
REMOVE PVC PIPE
SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
SAWING CONCRETE PAVEMENT (FULL DEPTH)
TEMPORARY CONSTRUCTION EASEMENT
REMOVE PVC PIPE
MAIN STREET BASELINE
REMOVE BITUMINOUS DRIVEWAY PAVEMENT
RIGHT-OF-WAY
SALVAGE SIGN
AMOCO REMOVAL BY OTHERS
SALVAGE SIGN (TYPE D)
SALVAGE SIGNS(2) (TYPE C)
ADJUST VALVES (2)
ADJUST VALVE
MAIN STREET (C.S.A.H. 14)
REMOVE CULVERT
REMOVE SANITARY SEWER LIFT STATION
REMOVE CONCRETE CURB AND GUTTER
SALVAGE SIGN (TYPE C)
SALVAGE SIGN (TYPE C)
REMOVE FORCE MAIN (50 mm PVC)
REMOVE CONCRETE CULVERT
REMOVE BITMINOUS DRIVEWAY PAVEMENT
REMOVE GRAVEL DRIVEWAY (INCIDENTAL TO COMMON EXCAVATION)
REMOVE BITUMINOUS PAVEMENT
SALVAGE SIGNS(2) (TYPE C)
SALVAGE SIGN (TYPE C)
SALVAGE SIGNS(2) (TYPE C)
SALVAGE SIGN (TYPE D)
PLANTING EASEMENT
CONSTRUCTION LIMITS
RIGHT-OF-WAY
SALVAGE SIGN (TYPE D)
TEMPORARY CONSTRUCTION EASEMENT

MATCH LINE 3+200

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3 OF 15

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED HATCH FOR GRAVEL D/W REMOVAL
2	JJL	7/5/00	MOD. REQ. #36: REVISED MENARDS ENTRANCE
3	BJK	7/20/00	MOD. REQ. #11: ADDED UTILITY ADJUSTMENTS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242RE02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
EXISTING TOPOGRAPHY, UTILITIES AND REMOVALS
STATION 2+580.000 TO STATION 3+200.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 121 / 539

PLOT DATE: Apr 07, 2004 3:23pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...\ENGRING\242re02.dwg

END SAP 02-614-19
END SAP 114-020-19
BEGIN SP 0212-40 (TH242=242)
BEGIN SP 114-010-11
MAIN STREET (CSAH 14/TH 242)
STA. 3+211.698

SEE SHEET 8 OF 15

MATCH LINE 3+200

RAMP C BASELINE
SALVAGE SIGNAL SYSTEM (TYP.)
REMOVE IMPACT ATTENUATOR
REMOVE APRON
REMOVE FORCE MAIN (50 mm PVC)
MAIN STREET (TH 242)
SALVAGE DELINEATORS(2)
REMOVE GUARD RAIL-PLATE BEAM
REMOVE CONCRETE CURB AND GUTTER
SALVAGE SIGNS (TYPE C)
REMOVE ELT
SALVAGE DELINEATORS(2)
REMOVE BITUMINOUS PAVEMENT
REMOVE STEEL CASING
REMOVE 2.0 m WATER MAIN AND VALVE (VALVE INCIDENTAL TO WATER MAIN REMOVAL) (1.0 m EACH SIDE OF VALVE)
TEMP. CONSTRUCTION EASEMENT
SALVAGE SIGNS(3) (TYPE C)
RAMP D BASELINE
SALVAGE SIGN (TYPE C)
CONSTRUCTION LIMITS
REMOVE APRON
REMOVE GUARD RAIL-PLATE BEAM
SAW AND REMOVE 0.6 m BITUMINOUS SHOULDER PAVEMENT
SALVAGE SIGN (TYPE D)
MAIN STREET/ TH 242 BASELINE
REMOVE CONCRETE SLOPE PAVING
REMOVE BRIDGE (02011)
REMOVE APRON
REMOVE BITUMINOUS SHOULDER PAVEMENT
REMOVE CONCRETE SLOPE PAVING
REMOVE BITUMINOUS PAVEMENT
SALVAGE DELINEATORS(2)
REMOVE GUARD RAIL-PLATE BEAM
SALVAGE DELINEATORS(2)
SALVAGE SIGN (TYPE D)
REMOVE ELT
REMOVE APRON
SALVAGE SIGN (TYPE D)
REMOVE IMPACT ATTENUATOR
SAW AND REMOVE 0.6 m BITUMINOUS SHOULDER PAVEMENT

MATCH LINE 3+480

LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS

SEE SHEET 9 OF 15

SEE SHEET 6 OF 15

MATCH LINE 3+480

RAMP A BASELINE
SALVAGE SIGN (TYPE C)
SALVAGE SIGN (TYPE C)
SALVAGE SIGN (TYPE D)
SALVAGE SIGN (TYPE C)
MAIN STREET (TH 242)
PERMANENT DRAINAGE EASEMENT
CONSTRUCTION LIMITS
PERMANENT EASEMENT
RIGHT-OF-WAY
MAIN STREET/TH 242 BASELINE
SALVAGE SIGNS (2) (TYPE D)
SALVAGE SIGNS (2) (TYPE C)
SALVAGE SIGN (TYPE C)
REMOVE BITUMINOUS SHOULDER PAVEMENT
REMOVE BITUMINOUS PAVEMENT
CONSTRUCTION LIMITS
REMOVE METAL CULVERT
RAMP B BASELINE
PERMANENT EASEMENT
RIGHT-OF-WAY

MATCH LINE 3+780

SEE SHEET 7 OF 15

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

4 OF 15

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED CONTROL PT. TH242 BRIDGE OVER TH10/47
			ADDED GUARDRAIL REMOVAL TH10/47 UNDER 242 BRIDGE
			EB: 8+044-8+114.5, WB: 8+070-8+140.5
			REMOVED APRONS ON CULVERTS UNDER 242 BRIDGE
			CHANGED NOTE FROM DRAIN.& UTIL. TO PERM. EASEMENT
2	JJL	7/5/00	MOD. REQ. #36: REVISED MENARDS, REMOVED WALL
3	BJK	7/20/00	MOD. REQ. #1: ADDED UTILITY ADJUSTMENTS
4	PMJ	8/04/00	MOD. REQ. #53: SAW & BIT REMOVAL BENEATH BRIDGE
5	JJL	8/10/00	MOD. REQ. #57: ADDED WATER MAIN AND VALVE REMOVAL
6	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/JRJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242ERE01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (TH 242)
EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
STATION 3+200.000 TO STATION 3+780.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 122 / 539

PLOT DATE: Aug 1 04 4:55pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SH... 2ere01.dwg

REF DRAWINGS

\PBOX
\-HATCH
:2MHVEG
:2MHECN
:2_GRID
:2E-CLM
:2
:2
:2-
:2MHETO

SEE SHEET 11 OF 15

MATCH LINE 3+780

MATCH LINE 4+080

CONSTRUCTION LIMITS
REMOVE METAL CULVERT
TRAIL EASEMENT
SALVAGE SIGN (TYPE D)
RIGHT-OF-WAY
COON CREEK BLVD. (C.S.A.H. 18)
END FULL CONSTRUCTION AT END RADIUS OF NEW PAVEMENT
REMOVE BITUMINOUS PAVEMENT
MILL 25 mm BITUMINOUS
REMOVE EARTHEN DRIVEWAY
MAIN STREET (TH 242)
SALVAGE SIGN (TYPE C)
MAIN STREET/TH 242 BASELINE
SALVAGE SIGN (TYPE C)
SALVAGE SIGN (TYPE D)
CONSTRUCTION LIMITS
REMOVE BITUMINOUS SHOULDER PAVEMENT
REMOVE BITUMINOUS PAVEMENT
PERMANENT EASEMENT
RIGHT-OF-WAY
SALVAGE SIGN (TYPE C)
SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
REMOVE METAL CULVERT (2)
REMOVE METAL CULVERT
REMOVE BUILDING
COON CREEK (COUNTY DITCH 54)
END CONSTRUCTION
END S.P. 0212-40 (TH242=242)
END S.P. 114-010-11
MAIN STREET/TH 242
B/L STA. 4+248.576
CONSTRUCTION LIMITS
RIGHT-OF-WAY
REMOVE METAL CULVERT
REMOVE BITUMINOUS DRIVEWAY PAVEMENT
MILL 25 mm BITUMINOUS PAVEMENT
MAIN STREET/TH 242 BASELINE
SALVAGE SIGN (TYPE C)
MAIN STREET (TH 242)
0212 A
PC = 4+378.516
CONSTRUCTION LIMITS
RIGHT-OF-WAY

LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

5 OF 15

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED S.A.P. TO S.P., ADDED HATCH FOR GRAVEL D/W REMOVAL, ADDED CONTROL PT. TH242 BRIDGE OVER COON CREEK
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/JRJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242ERE02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 328.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (TH 242)
EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
STATION 3+780.000 TO STATION 4+380.000

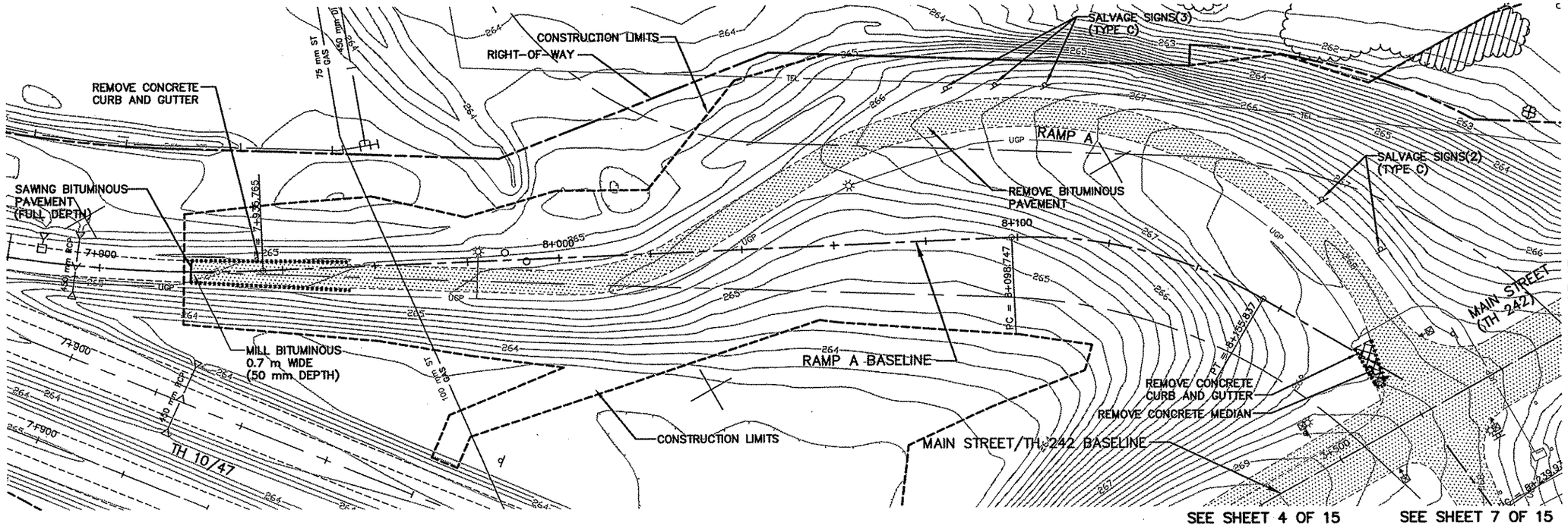
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 123 / 539

PLOT DATE: Jul 11, 2000 9:49am DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\Jjo89E\PLAN-SHT\242ere02.dwg

REF DRAWINGS
\PBOX
-2E-ALI
I-HATCH
-2MHECN
-2_GRID
HPLAN
-2E-
-2-
-2MHVEG
-2MHETO



LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242ERE04
DATE: NOVEMBER 5, 1999

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BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
STATION 7+920.000 TO STATION 8+016.519

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 124 / 539

PLOT DATE: Dec 2 ,9 2:59pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh .ere04.dwg

REF DRAWINGS
APBOX
42E-ALI
M-HATCH
42-EUT
42MHECN
42-GRID
42-
42-
42MHVEG
42MHETO

SEE SHEET 4 OF 15

SEE SHEET 6 OF 15

MAIN STREET/TH 242 BASELINE
PERMANENT EASEMENT
RIGHT-OF-WAY
CONSTRUCTION LIMITS
RAMP B BASELINE
REMOVE CONCRETE CURB AND GUTTER
SALVAGE SIGN (TYPE A) (BY OTHERS)
SALVAGE SIGNS(3) (TYPE C)
SALVAGE SIGN (TYPE D)
SALVAGE SIGN (TYPE C)
REMOVE CONCRETE CULVERT
REMOVE CATCH BASIN AND SEWER PIPE (STORM)
SALVAGE DELINEATOR
RAMP B
SALVAGE SIGNS(3) (TYPE C)
REMOVE BITUMINOUS PAVEMENT
CONSTRUCTION LIMITS
SALVAGE DELINEATORS(5)
SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
REMOVE CONCRETE NOSE
SALVAGE SIGN (TYPE D)
TH 10/47
MATCH LINE 8+520

SEE SHEET 4 OF 15

MATCH LINE 8+520
RAMP B BASELINE
RIGHT-OF-WAY
CONSTRUCTION LIMITS
SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
REMOVE BITUMINOUS SHOULDER PAVEMENT
RAMP B
TH 10/47
RAMP D
RAMP D BASELINE

LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED SAWCUT STA. RAMP B
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR/PJM
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242ERE05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B, RAMP B ACCESS AREA
EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
STATION 8+228.514 TO STATION 8+758.221

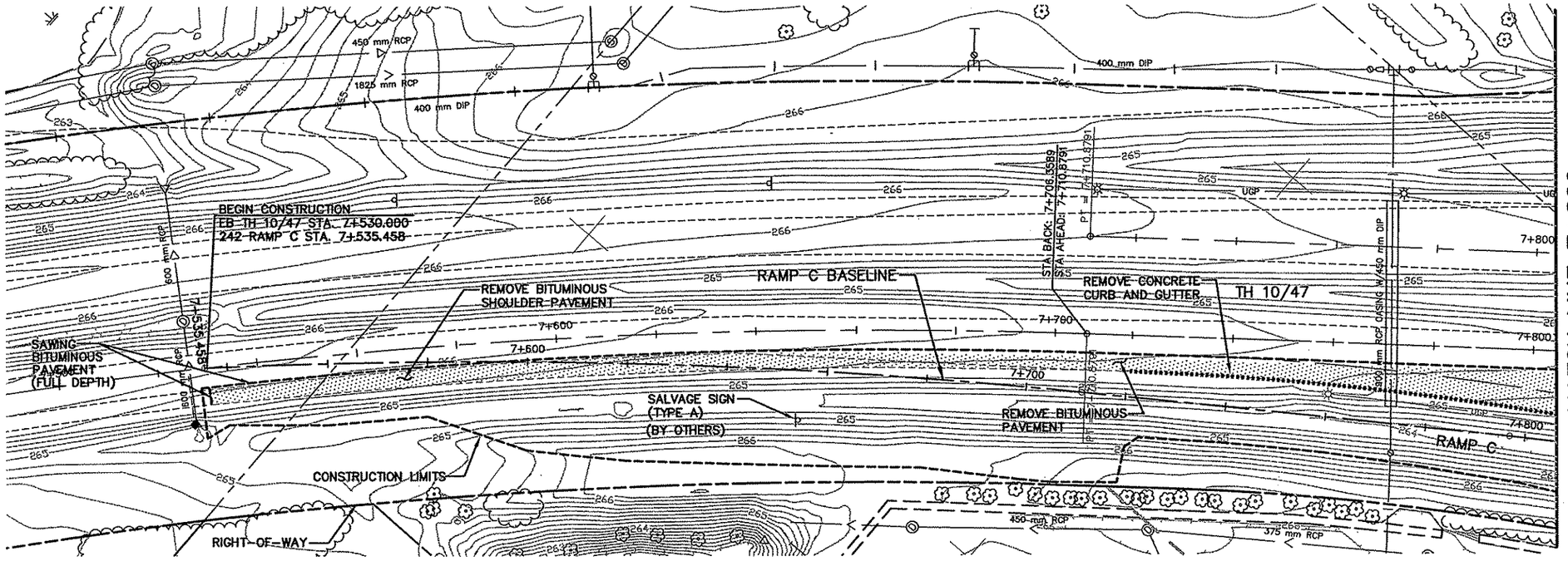
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

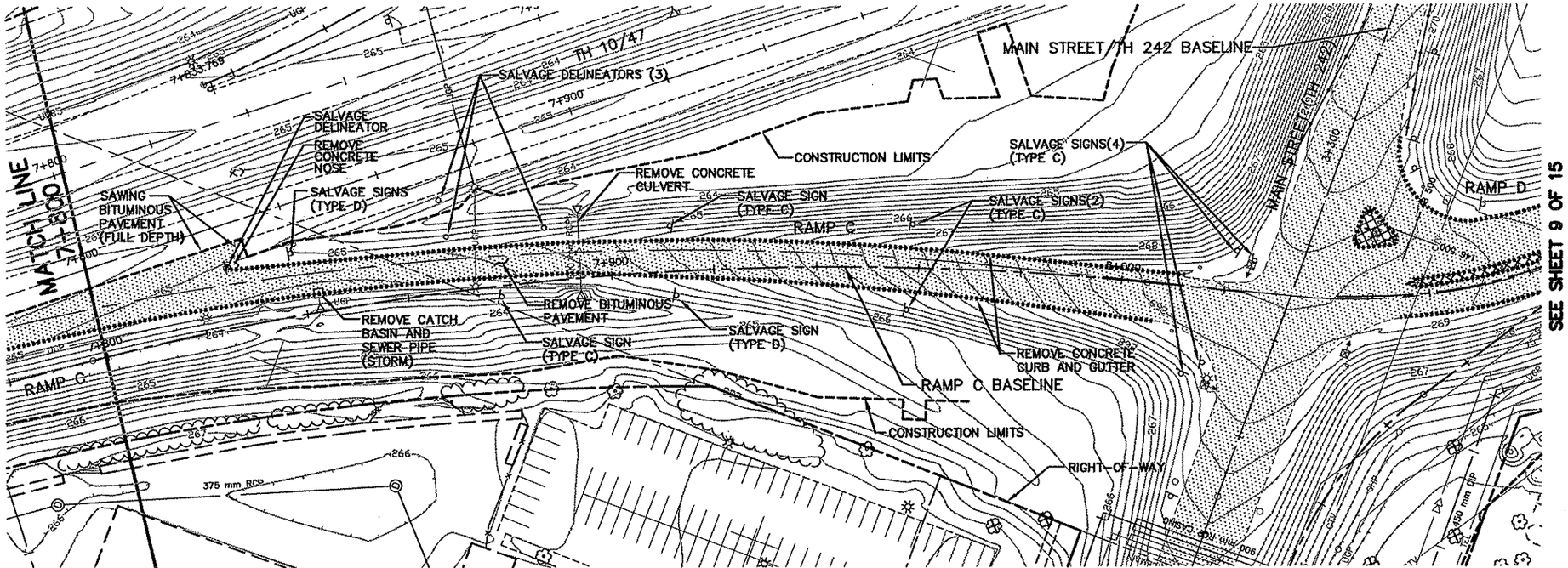
SHEET NO. 125 / 539

PLOT DATE: Dec 2.9 4:55pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH .ere05.dwg

REF DRAWINGS
\PBOX
I2E-ALI
4-HATCH
I2_GRID
I2MHECN
I2E-CLM
I2-ESLIM
I2
I2
I2MHLTO



SEE SHEET 4 OF 15



SEE SHEET 9 OF 15

SEE SHEET 4 OF 15

LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO S.P. No.s FOR RAMP C
			REVISED RAMP C BEGIN STA.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242ERE06
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Bielb
DATE: 11/5/99 MINN. REG. NO. 23211

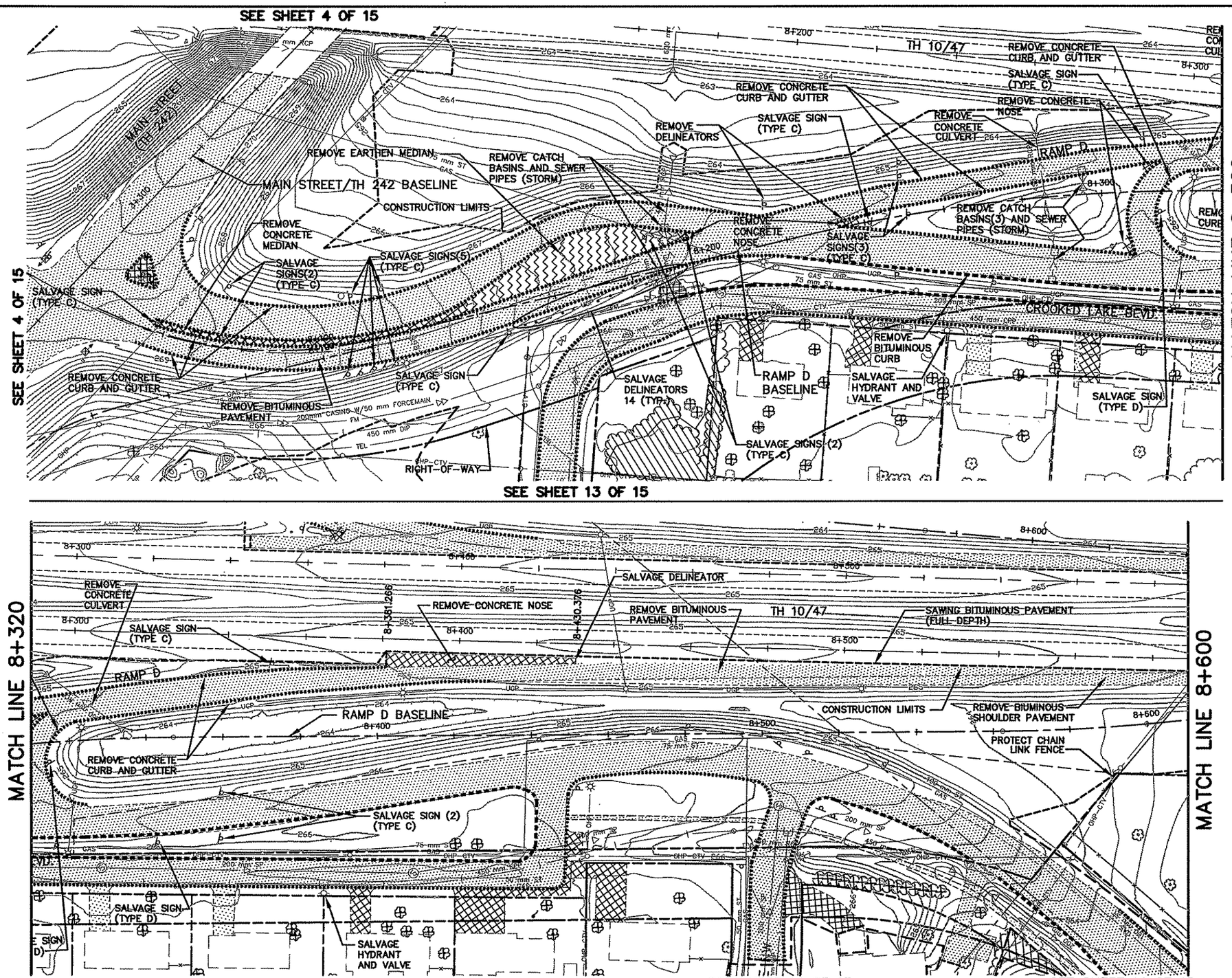
MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP C ACCESS AREA, 242 RAMP C
EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
STATION 7+537.182 TO STATION 8+023.212

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 126 / 539

PLOT DATE: Jan 0 JO 3:12pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH ere06.dwg



LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS

NOTE:

SP 0212-40 (TH242=242) & SP 114-010-11
WORK ASSOCIATED WITH RAMP D AND BUILDING/LOT DEMOLITION WORK

SAP 114-136-02
WORK ASSOCIATED WITH 124th STREET, FRONTAGE ROAD AND CROOKED LAKE BOULEVARD

5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242ERE07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Bilb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
STATION 8+049.822 TO STATION 8+600.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 127 / 539

PLOT DATE: Jul 15, 0 12:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH. 2ere07.dwg

REF DRAWINGS
\PBOX
42E-ALI
4-HATCH
42MHECN
42_GRID
42E-CLM
42-ESUM
42
42M

MATCH LINE 8+600

MATCH LINE 8+860

RAMP B

RAMP D

TH 10/47

CONSTRUCTION LIMITS

SAWING BITUMINOUS PAVEMENT (FULL-DEPTH)

RAMP D BASELINE

REMOVE BITUMINOUS SHOULDER PAVEMENT

PROTECT FENCE CORNER

PROTECT CHAIN LINK FENCE

CONSTRUCTION LIMITS

RIGHT-OF-WAY

REMOVE BITUMINOUS SHOULDER-PAVEMENT

SAWING BITUMINOUS PAVEMENT (FULL DEPTH)

RAMP D

CONSTRUCTION LIMITS

242 RAMP D BASELINE

9+018.138

END CONSTRUCTION
242 RAMP D STA. 9+018.138
EB TH 10/47 STA. 8+966.588

RIGHT-OF-WAY

LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

10 OF 15

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO S.P. Nos FOR RAMP D
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242ERE08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D, RAMP D MERGE AREA
EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
STATION 8+600.000 TO STATION 9+020.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

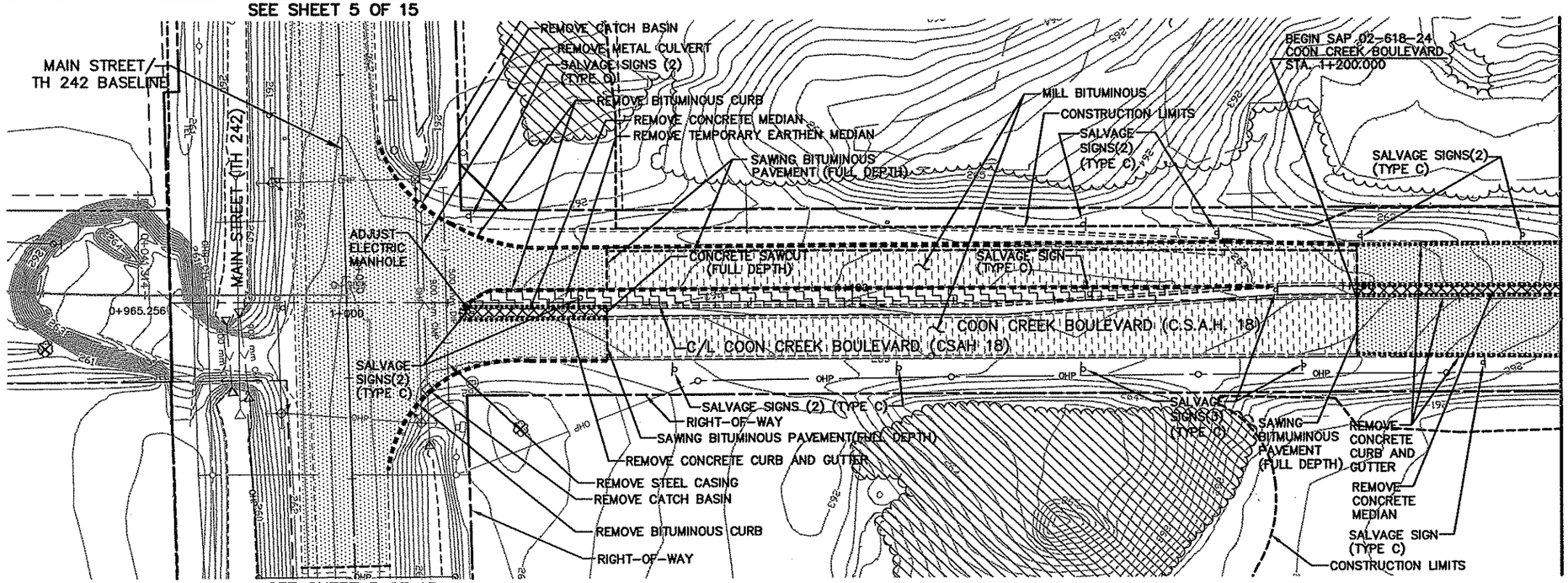
SHEET NO. 128 / 539

PLOT DATE: Dec 2..1999 3:23pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh...42ere08.dwg

REF DRAWINGS

\PBOX
\2MHECN
\2_GRID
\4-HATCH
\2E-CLM
\2E-ALL
\2-
\2-
\2MHvcG
\2MHETO

SEE SHEET 5 OF 15

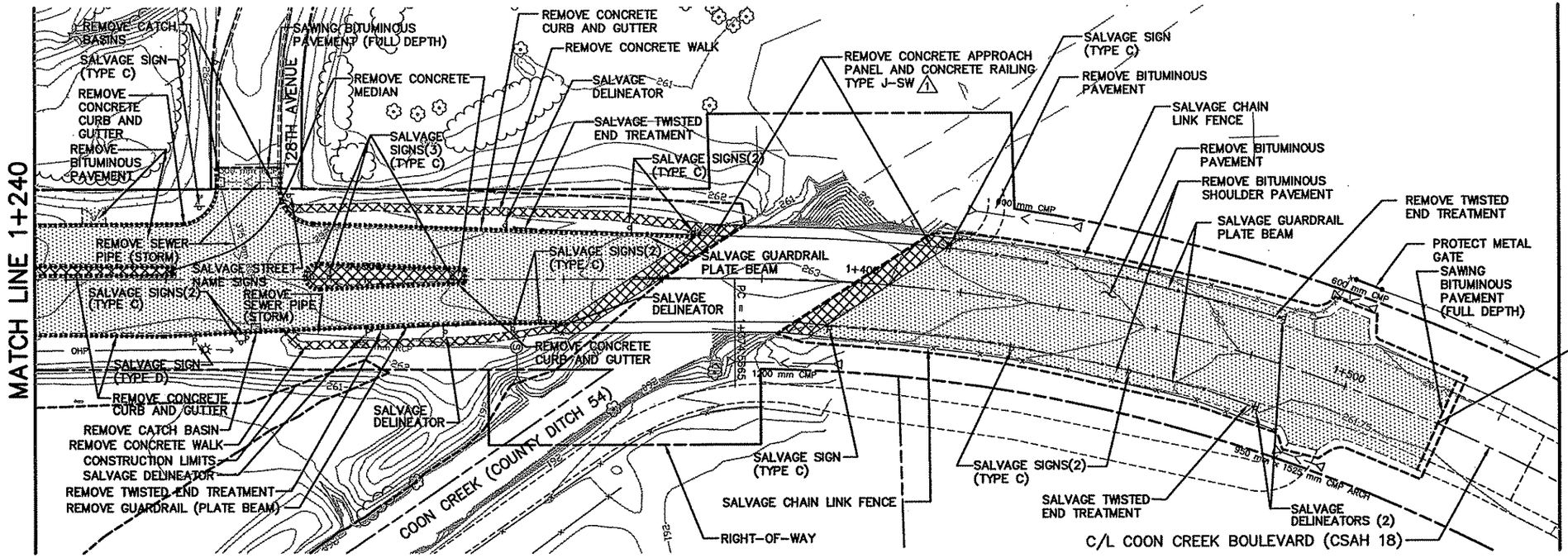


SEE SHEET 5 OF 15

LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

11 OF 15

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED HATCH FOR TREE REMOVAL, CHANGED NOTE: REMOVE CONC. SIDEWALK TO REMOVE CONC. WALK
2	JJL	2/11/00	ADDEND. 1 ADDED NOTE: REMOVE CONCRETE RAILING TYPE J-SW
3	JJL	5/9/00	MOD. REQ. #26: ADDED BIT CURB REMOVAL, SAWCUT, & PAVEMENT REMOVAL
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242ERE09
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD (C.S.A.H. 18)
EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
STATION 1+000.000 TO STATION 1+520.000

CITY PROJECT 98-20

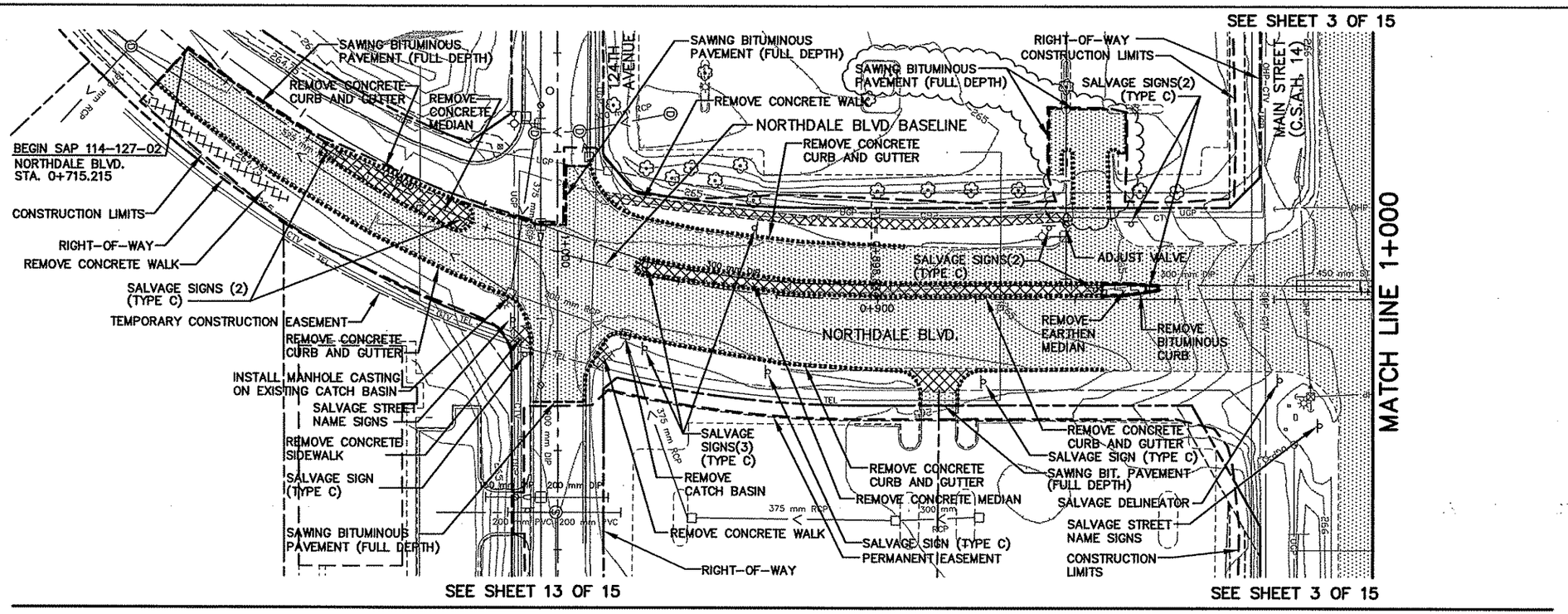
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 129 / 539

PLOT DATE: May C 30 2:07pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SI 1ere09.dwg

REF DRAWINGS

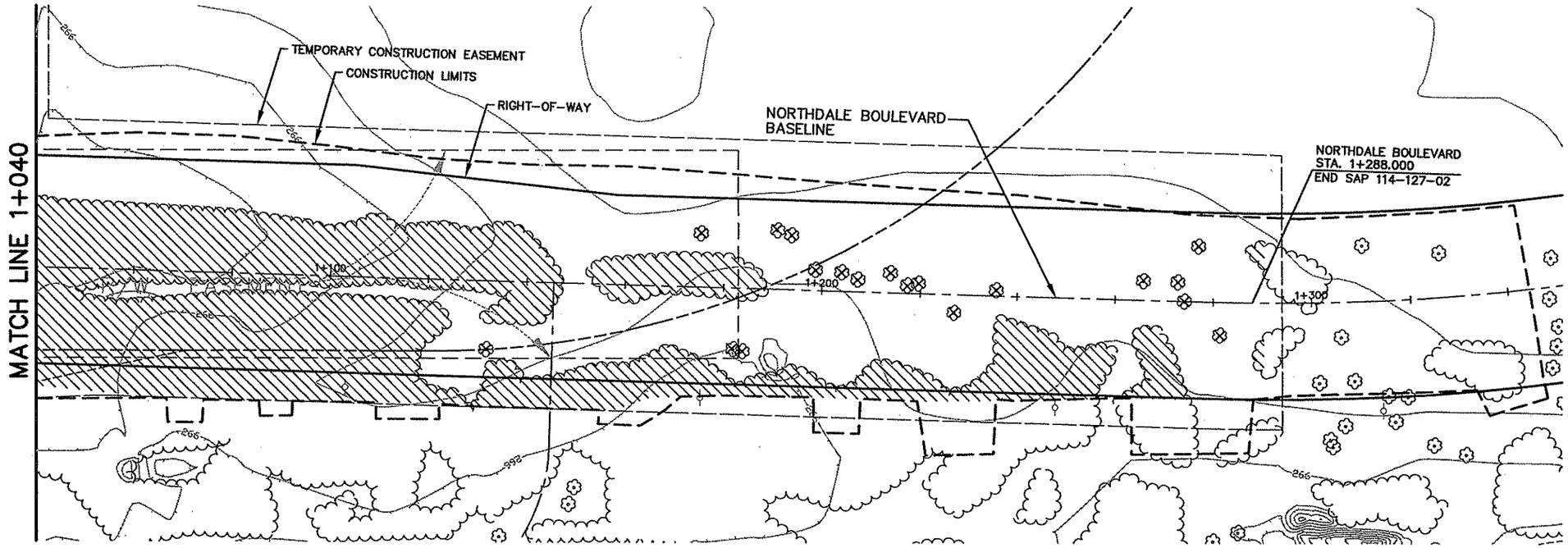
\PBOX
\2CLM-W
\MW-HAT
\2_GRID
\2E-CLM
\2MHECN
\86SITE
\2-
\2
\2M
\2MHETO
\2-EUT



LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED CB 30A NOTE FROM ADJUST TO INSTALL
			STA.1+288 CHANGED BEGIN TO END
2	JJL	6/01/00	MOD.REQ.#27: D/W 0+912.460 RT, REMOVE C&G, CONC.
			APRON & BITUMINOUS
3	BJK	7/20/00	MOD. REQ. #11: ADDED UTILITY ADJUSTMENTS
4	JJL	9/07/00	MOD.REQ.#59: MODIFIED BANK ENTRANCE
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242RE05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

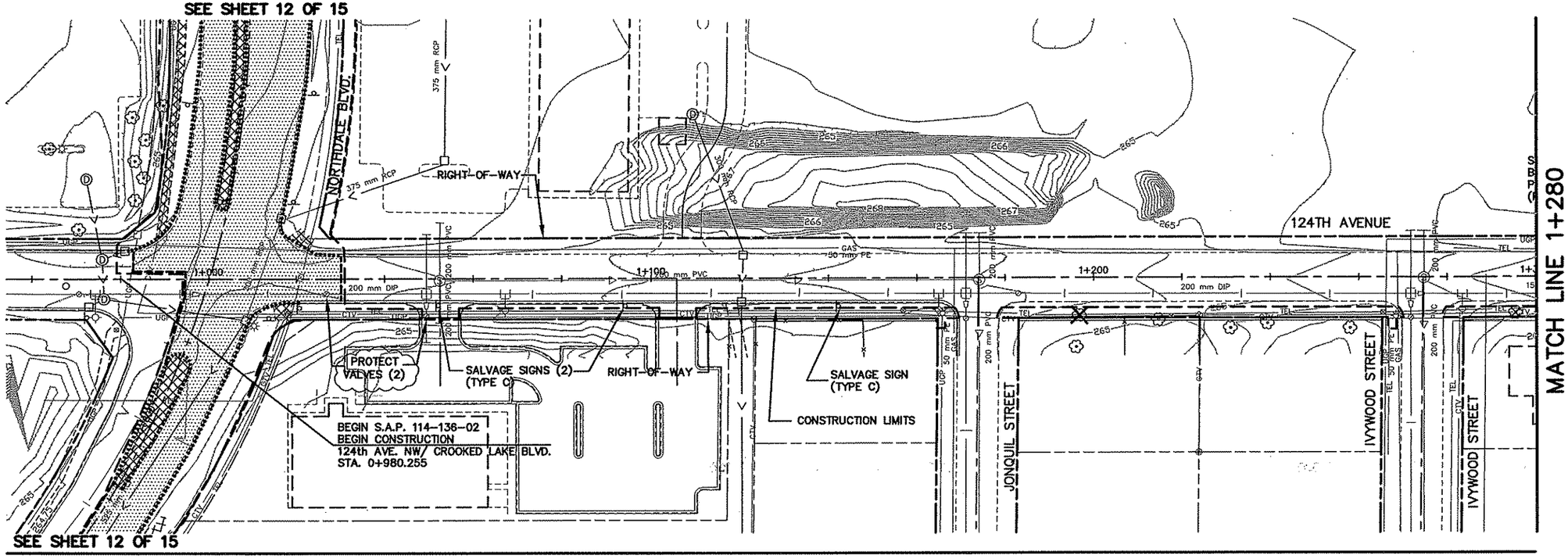
MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD
EXISTING TOPOGRAPHY, UTILITIES AND REMOVALS
STATION 0+715.215 TO STATION 1+288.000

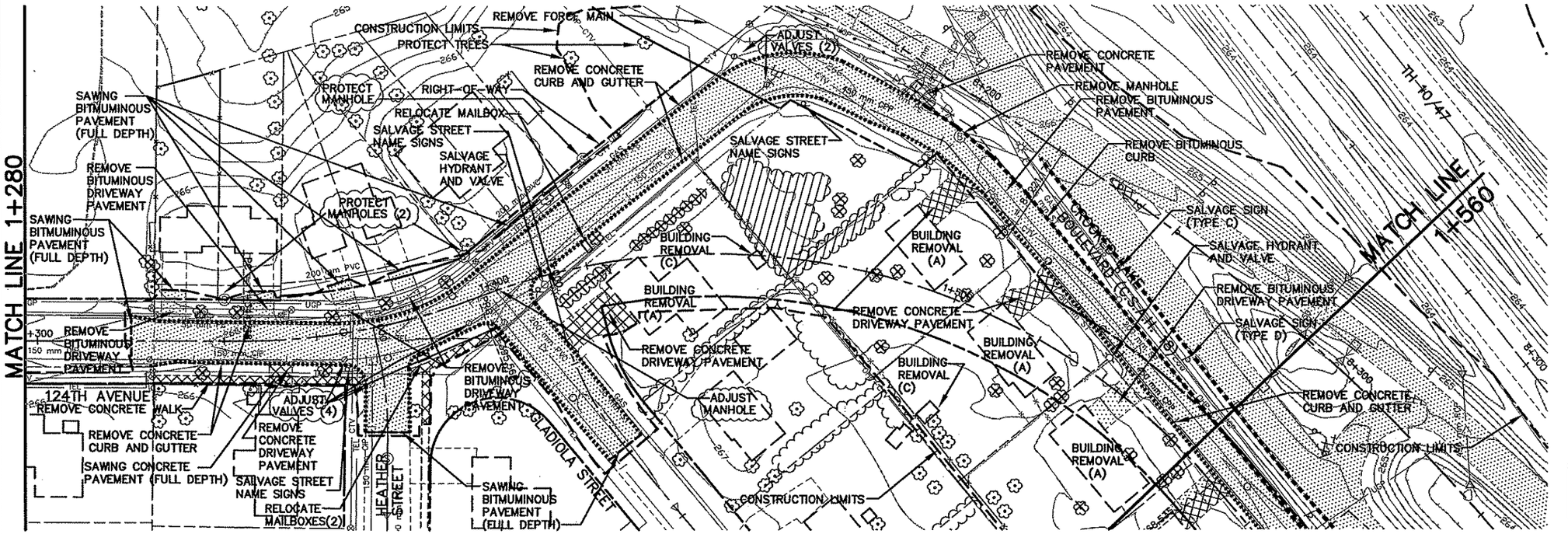
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

PLOT DATE: Apr 0-, 2004 3:26pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh-\ENGRING\242re05.dwg

DRAWINGS
2_GRID
2E-ALI
PBOX
MW-HAT
2E-CLM
2MHECN
2CLM-W
2-
2
2M
2MHETO
2-EUT





LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS

NOTE:

SP 0212-40 (TH242=242) & SP 114-010-11
WORK ASSOCIATED WITH RAMP D AND BUILDING/LOT DEMOLITION WORK.

SAP 114-136-02
WORK ASSOCIATED WITH 124th STREET, FRONTAGE ROAD AND CROOKED LAKE BOULEVARD

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

13 OF 15

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED 124th AVE. BEGIN STA.
2	BJK	7/20/00	MOD. REQ. #11: ADDED UTILITY ADJUSTMENTS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242RE03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./
CROOKED LK. BLVD. (C.S.A.H. 18)
EXISTING TOPOGRAPHY, UTILITIES AND REMOVALS
STATION 1+000.000 TO STATION 1+560.000

CITY PROJECT 98-20

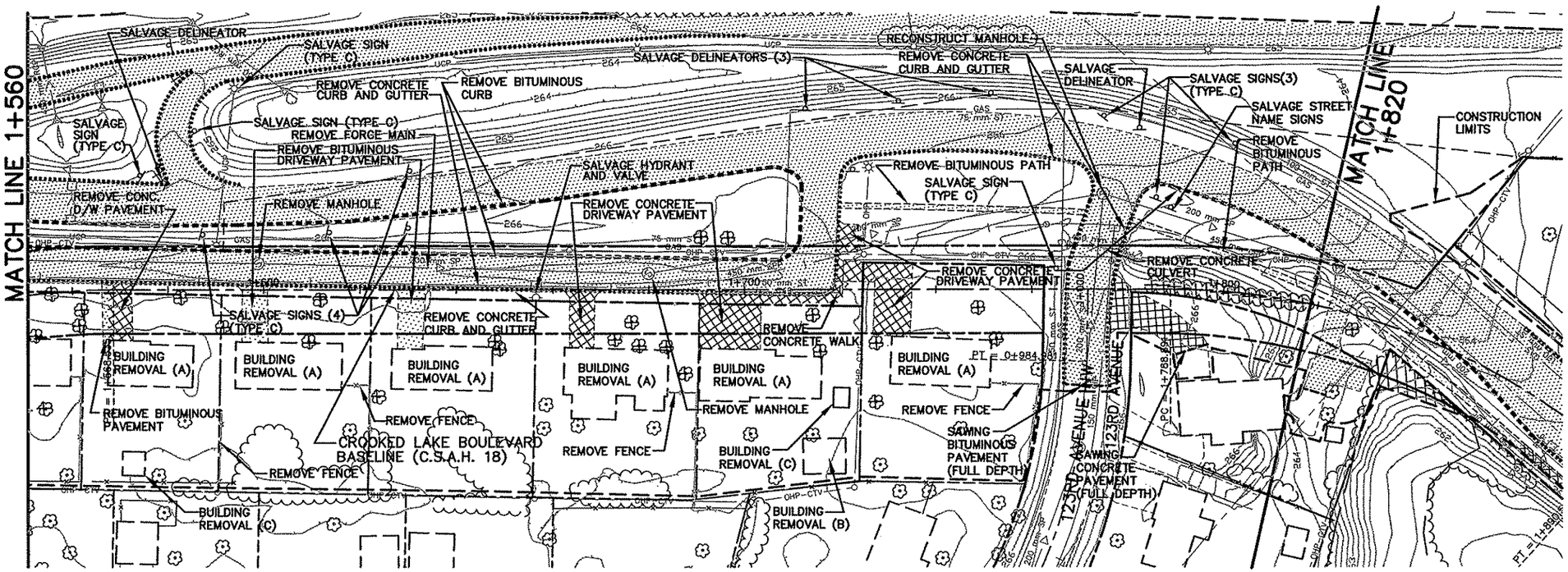
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 131 / 539

PLOT DATE: Apr 04, 2004 3:24pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\ENGRING\242re03.dwg

REF DRAWINGS

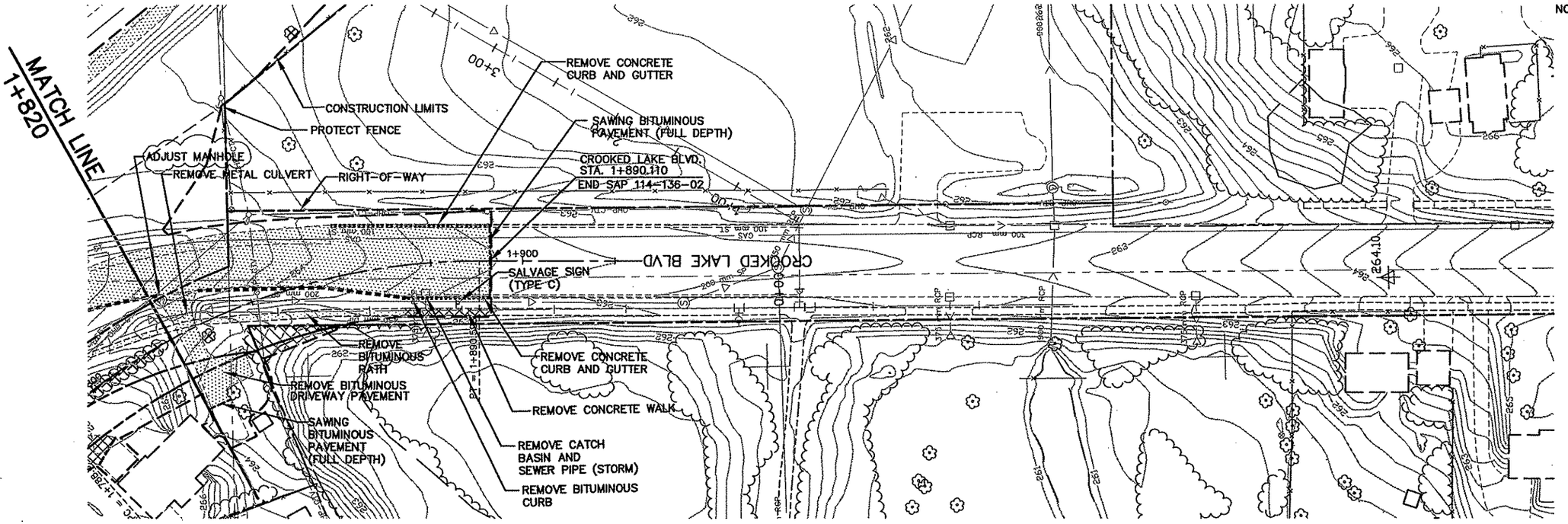
APBOX
M-HATCH
42-ALIW
EMW-HAT
42MHETO
42_GRID
42E-CLM
42[illegible]V
42[illegible]I
42-ESUM
42MHVEG
42-EUT



LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

5 0 10 20
HORIZONTAL SCALE IN METERS



NOTE:

SP 0212-40 (TH242=242) & SP 114-010-11
WORK ASSOCIATED WITH RAMP D AND BUILDING/LOT DEMOLITION WORK.

SAP 114-136-02
WORK ASSOCIATED WITH 124th STREET, FRONTAGE ROAD AND CROOKED LAKE BOULEVARD

5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADJUSTED MATCH LINE 1+820
			ADDED RDWY NAME TO END STA.
2	JJL	7/5/00	MOD. REQ. #36: REVISED MENARDS ENTRANCE
3	BJK	7/20/00	MOD. REQ. #11: ADDED RECONSTRUCT & ADJUST MANHOLE
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242RE04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION 124TH AVE. N.W./ CROOKED LK. BLVD. (C.S.A.H. 18)

EXISTING TOPOGRAPHY, UTILITIES AND REMOVALS
STATION 1+560.000 TO STATION 1+900.000

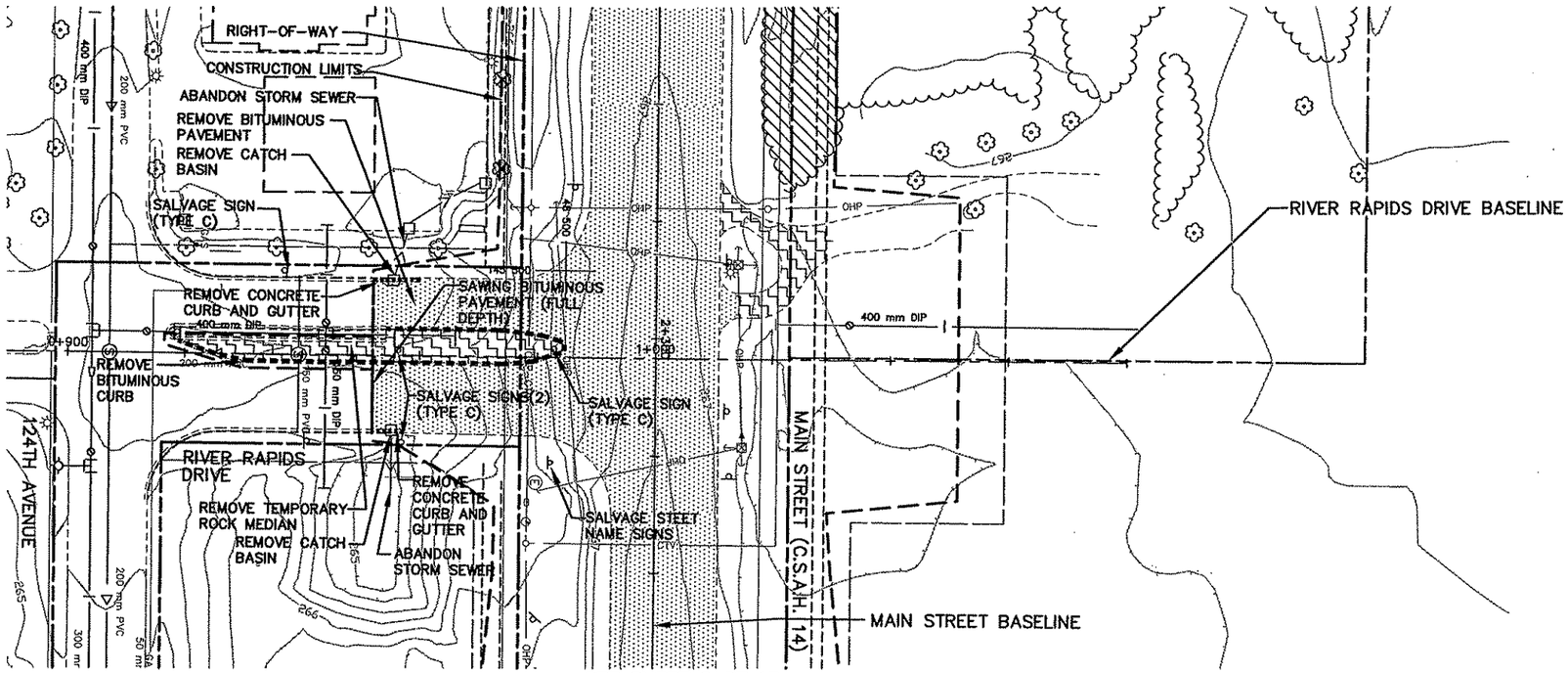
CITY PROJECT 98-20

S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 132 / 539

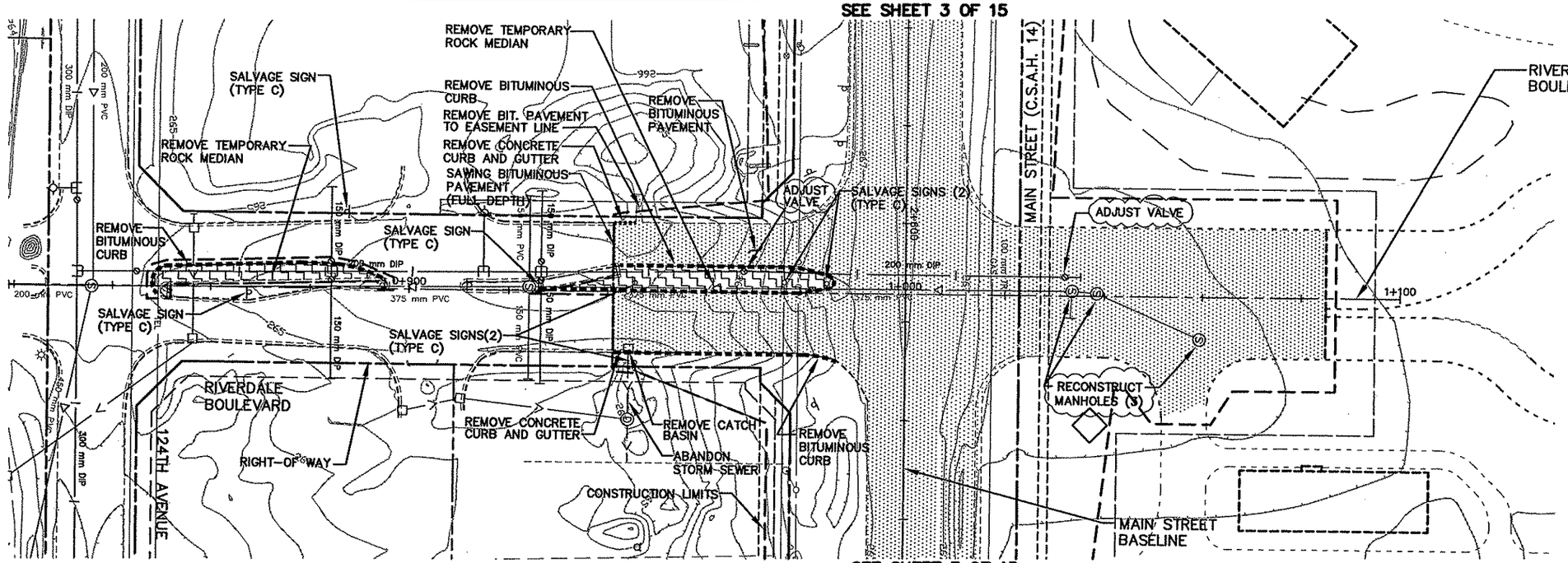
PLOT DATE: Apr [illegible], 2004 3:25pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...\ENGRING\242re04.dwg

REF DRAWINGS
-2_GRID
I86SITE
PBOX
MW-HAT
-2MHETO
-2E-CLM
-2MHFCN
-2
-2
-2
-2MHVEG
-2-EUT



SEE SHEET 2 OF 15

SEE SHEET 3 OF 15



SEE SHEET 3 OF 15

LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

15 OF 15

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REV. NOTE REMOVE BIT. TO EASEMENT LINE 0+947, LT.
2	BJK	7/20/00	MOD. REQ. #11: ADDED UTILITY ADJUSTMENTS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242RE06A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Bell
DATE: 11/5/99 MINN. REG. NO. 23211

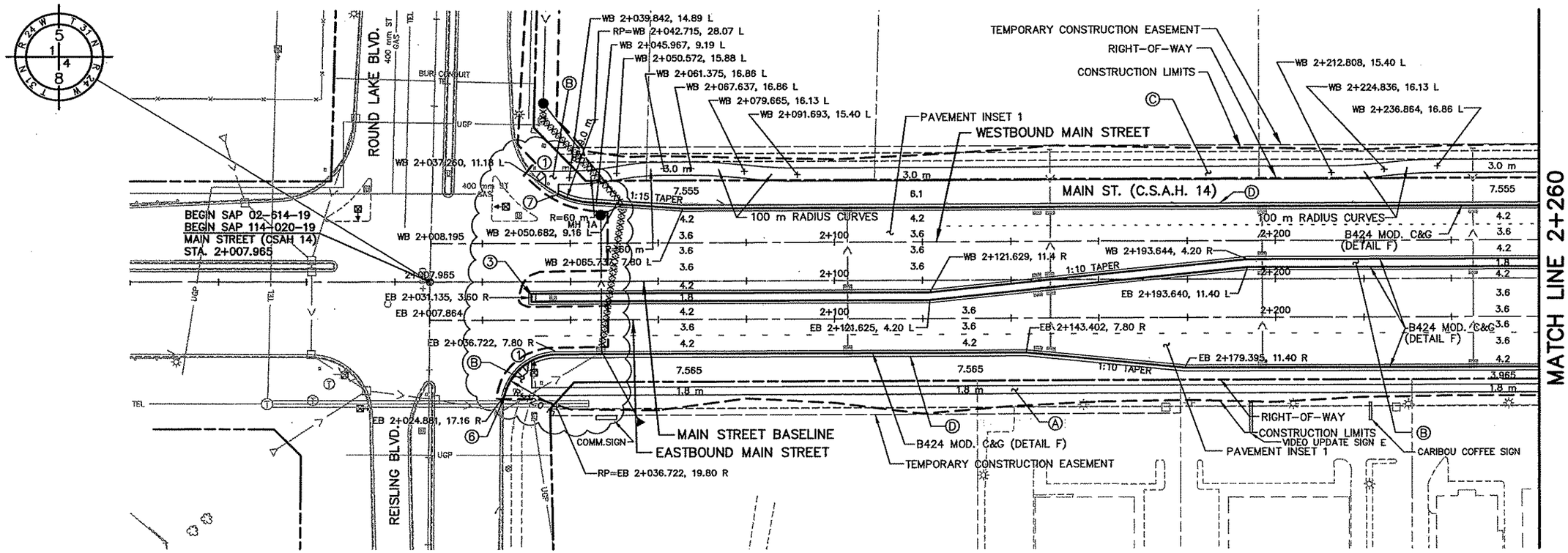
MAIN STREET/T.H. 242 RECONSTRUCTION
RIVERDALE BOULEVARD & RIVER RAPIDS DRIVE
EXISTING TOPOGRAPHY, UTILITIES AND REMOVALS
RIVER RAPIDS DRIVE STA. 0+900.000 TO STA. 1+000.000
RIVERDALE VILL. BLVD STA. 0+820.00 TO STA. 1+000.000
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 133 / 539

PLOT DATE: Apr 07, 2004 3:27pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH...ENGRING\242re06A.dwg

J DRAWINGS
\PBOX
12-ALIW
12CLM-W
_STRIPE
12E-TXT
12-PUT
12PLANV
12-
12MHVEG
12MHETO
12-BUT

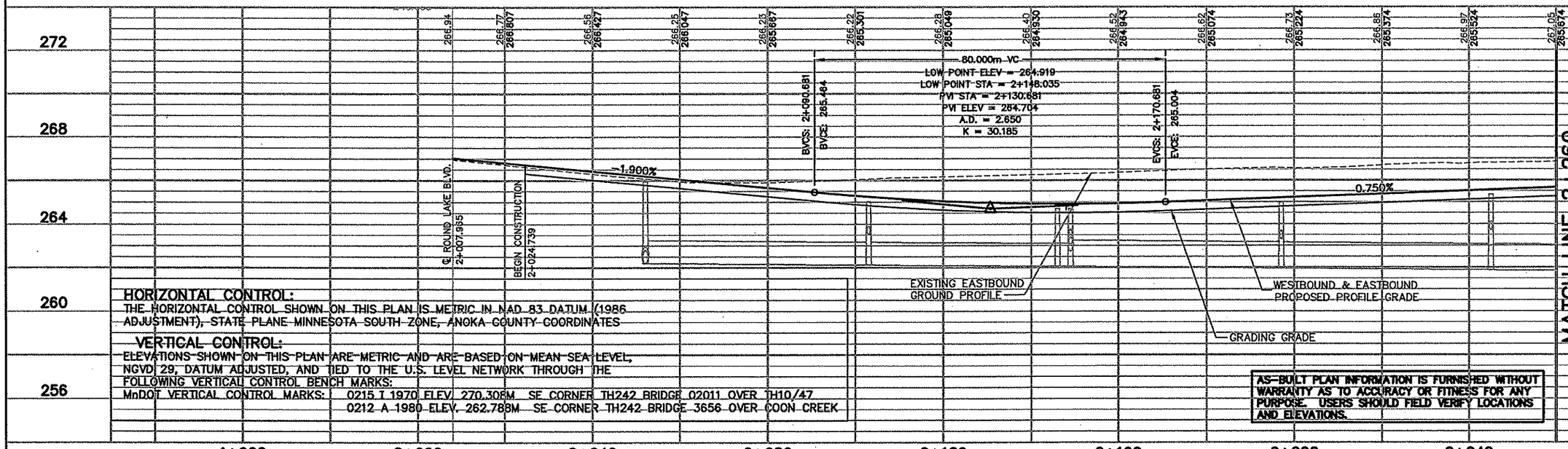


5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
- Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
- Ⓒ BITUMINOUS PATH (DETAIL A)
- Ⓓ MAINTENANCE STRIP (DETAIL C)
- ① CONST. CONC. PEDESTRIAN CURB RAMP
- ② DROP CURB
- ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- ④ CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- ⑤ CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- ⑥ 3.0 m C&G TRANSITION, B618 TO B424
- ⑦ 3.0 m C&G TRANSITION B624 TO B424
- ⑧ 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- ⑨ 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



HORIZONTAL CONTROL:
THE HORIZONTAL CONTROL SHOWN ON THIS PLAN IS METRIC IN NAD 83 DATUM (1986 ADJUSTMENT), STATE PLANE MINNESOTA SOUTH ZONE, ANOKA COUNTY COORDINATES

VERTICAL CONTROL:
ELEVATIONS SHOWN ON THIS PLAN ARE METRIC AND ARE BASED ON MEAN SEA LEVEL, NGVD 29, DATUM ADJUSTED, AND TIED TO THE U.S. LEVEL NETWORK THROUGH THE FOLLOWING VERTICAL CONTROL BENCH MARKS:
MnDOT VERTICAL CONTROL MARKS: 0215 T 1970 ELEV. 270.308M SE CORNER TH242 BRIDGE 02011 OVER TH10/47
0212 A 1980 ELEV. 262.788M SE CORNER TH242 BRIDGE 3656 OVER COON CREEK

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

1 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			ADDED NOTE FOR HORZ. & VERT. CONTROL
2	JJL	6/28/00	MOD.REQ.#31: REMOVED SUBCUT FROM PROFILE
3	PMJ	7/10/00	MOD. REQ. #47: MODIFIED BIT PATH C
4	JJL	7/12/00	MOD. REQ. #40: MOD. CONSTRUCTION LIMITS
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/PJM | DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242WPP01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLANNED CONSTRUCTION
STATION 2+007.965 TO STATION 2+260.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02-614-19
S.A.P.	02-618-24
S.P.	114-010-11
S.A.P.	114-020-19
S.A.P.	114-136-02
S.A.P.	114-127-02

SHEET NO. 134 / 539

PLOT DATE: Apr 2004 3:36pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_ENGRING\242wpp01.dwg

SEE SHEET 28 OF 31

MATCH LINE 2+260

MATCH LINE 2+580

WB 2+290.328, 19.80 L

WB 2+316.451, 23.40 L

WB 2+412.263, 11.4 L

TEMPORARY CONSTRUCTION EASEMENT

RIGHT-OF-WAY

PAVEMENT INSET 1

CONSTRUCTION LIMITS

WESTBOUND MAIN STREET

MAIN STREET BASELINE

WB 2+355.663, 16.86 L

WB 2+367.691, 16.13 L

WB 2+379.719 15.40 L

WB 2+522.961, 15.40 L

WB 2+534.989, 16.13 L

WB 2+547.017, 16.86 L

RIGHT-OF-WAY

B424 MOD. C&G (DETAIL F)

WB 2+448.263, 7.80 L

RP=WB 2+278.328, 19.80 L

RP=WB 2+328.451 23.40 L

R=12.0 m

WB 2+278.328, 7.80 L

WB 2+328.451, 11.40 L

WB 2+494.503, 4.20 R

100 m RADIUS CURVES

WB 2+281.832, 5.10 R

EB 2+324.951, 5.10 L

WB 2+422.503, 11.40 R

1:10 TAPER

EB 2+278.338, 11.40 R

EB 2+494.503, 11.40 L

B424 MOD. C&G (DETAIL F)

EB 2+328.451, 16.50 R

EB 2+290.338, 23.40 R

EB 2+422.503, 4.20 L

EB 2+504.539, 11.40 R

CONOCO SIGN

RP=EB 2+278.338, 23.40 R

RP=EB 2+328.451, 19.80 R

EB 2+316.451, 28.50 R

SCHLOTZKY'S DELI SIGN

PAVEMENT INSET 1

EASTBOUND MAIN STREET

ARBY'S SIGN

EB 2+468.539, 7.80 R

CONSTRUCTION LIMITS

TEMPORARY CONSTRUCTION EASEMENT

RIGHT-OF-WAY

B424 MOD. C&G (DETAIL F)

PEP BOYS SIGN

RIVER RAPIDS DRIVE

50 mm DIP

150 mm PVC

SEE SHEET 28 OF 31

5 0 10 20

HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

272

268

264

260

256

75.000m VC

HIGH POINT ELEV = 265.859

HIGH POINT STA = 2+303.437

PVI STA = 2+303.426

PVI ELEV = 266.000

A.D. = -1.500

K = 49.999

BVCS: 2+265.926

BVCE: 265.719

EVCS: 2+340.926

EVCE: 265.719

EXISTING EASTBOUND GROUND PROFILE

-0.750%

+3.354 ℄ RIVER RAPIDS DRIVE

55.000m VC

BVCS: 2+432.500

BVCE: 265.032

EVCS: 2+487.500

EVCE: 265.032

LOW POINT STA = 2+459.995

PVI STA = 2+460

PVI ELEV = 264.826

A.D. = 1.500

K = 36.671

0.750%

WESTBOUND & EASTBOUND PROPOSED PROFILE GRADE

BVCS: 2+576.900

BVCE: 265.703

GRADING GRADE

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2+260 2+300 2+340 2+380 2+420 2+460 2+500 2+540 2+580

2 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	JJL	6/28/00	MOD.REQ.#31: REMOVED SUBCUT FROM PROFILE
3	PMJ	7/10/00	MOD. REQ. #47: MODIFIED BIT PATH C
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028

DRAWN BY: PJM/JRJ

DESIGN BY: KPK/JJL

CHKED. BY: PBD/KPK

DWG. NAME: 242WPP02

DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLANNED CONSTRUCTION
STATION 2+260.000 TO STATION 2+580.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 135 / 539

PLOT DATE: Apr 6 04 3:36pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...NGRING\242wpp02.dwg

DRAWINGS
PBOX
2E-TXT
STRIPE
2CLM-W
2-PUT
2PLMW
2-
2-ESOM
2MHVEG
2MHETO
2-EUT

SEE SHEET 29 OF 31

MATCH LINE 2+580

WB 0+601.328, 27.00 L
RP=WB 2+638.654, 23.40 L
WB 2+638.654, 11.40 L
WB 2+588.481, 7.80 L
RP=WB 2+588.481, 19.80 L
WB 0+575.154, 23.40 L
WESTBOUND MAIN STREET
MAIN STREET BASELINE
WB 2+691.321, 15.40 L
CONSTRUCTION LIMITS
WB 2+665.866, 16.86 L
WB 2+678.594 16.13 L
WB 2+737.438, 11.40 L
RIGHT-OF-WAY
T.C.E.
R=12.0 m
4.2 m
3.6
1.8
3.0 m
3.955
1:10 TAPER
100 m RADIUS CURVES
WB 2+773.438, 7.80 L
WB 2+794.540, 4.20 R
WB 2+722.540, 11.40 R
1.5 m
2+600
2+700
2+800
WB 2+591.975 5.10 R
B424 C&G (DETAIL F)
EB 2+635.154, 5.10 L
EB 2+722.629, 4.20 L
EB 2+794.629, 11.40 L
B424 MOD. C&G (DETAIL F)
EB 2+588.467, 11.40 R
EB 2+600.467, 23.40 R
EB 2+719.047, 7.80 R
EB 2+755.047, 11.40 R
7.565
1.8 m
HOLLYWOOD VIDEO SIGN
EB 2+638.654, 7.80 R
RP=EB 2+638.654, 19.80 R
EB 2+626.654, 19.80 R
KINKO'S SIGN
EASTBOUND MAIN STREET
COMM. SIGN
B424 MOD. C&G (DETAIL F)
COMM. SIGN
PAVEMENT INSET I
RIGHT-OF-WAY
CONSTRUCTION LIMITS
TEMPORARY CONSTRUCTION EASEMENT
RP=EB 2+588.467, 23.40 R
RIVERDALE VILLAGE BOULEVARD
200 mm DIP

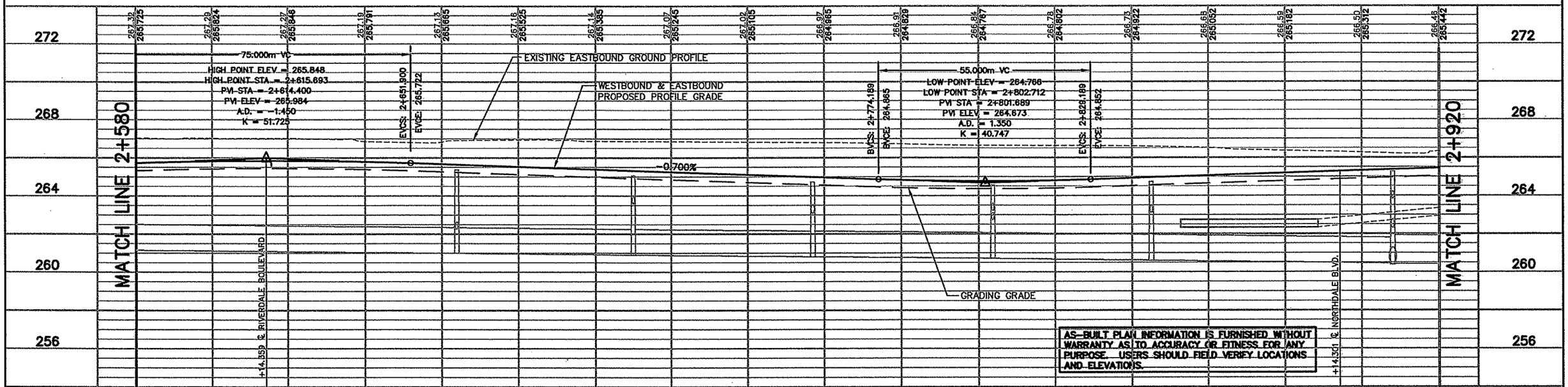
TEMPORARY CONSTRUCTION EASEMENT
WB 2+800.923, 15.40 L
WB 2+813.065, 16.13 L
WB 2+825.055, 16.86 L
NORTHDALE BLVD.
WB 2+878.538, 19.45 L
RP=WB 2+866.543, 19.60 L
WB 2+866.543, 7.80 L
WB 2+920.078, 23.40 L
WB 2+908.078, 23.75 L
1.8 m
2.46
2.48
R=12.0 m
B424 MOD. C&G (DETAIL F)
7.555
WB 2+920.071, 11.40 L
WB 2+873.267, 5.10 R
EB 2+915.968, 5.10 L
2+900
R=1.0 m
RP=EB 2+917.921, 9.40 R
EB 2+869.333, 11.40 R
RP=EB 2+910.726, 11.40 R
RP=EB 2+908.726 17.42 R
WELLS FARGO SIGN
EB 2+869.333, 23.40 R
B424 MOD. C&G (DETAIL F)
TEMPORARY CONSTRUCTION EASEMENT
EB 2+881.326, 23.40 R
EB 2+911.522, 32.98 R
NORTHDALE BLVD.

SEE SHEET 22 OF 31
MATCH LINE 2+920
SEE SHEET 21 OF 31

HORIZONTAL SCALE IN METERS
5 0 10 20

CONSTRUCTION NOTES:
- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



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3 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			ADDED APPROACH NOSE 7113 TO CONC. ISLAND CORNERS
2	JJL	6/28/00	MOD.REQ.#31: REMOVED SUBCUT FROM PROFILE
3	PMJ	7/10/00	MOD. REQ. #47: MODIFIED BIT PATH C
4	JJL	8/09/00	MOD.REQ.#56:REMOVED WALK, NDALE 1+032.8-1+288, RT.
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/PJM
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242WPP03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

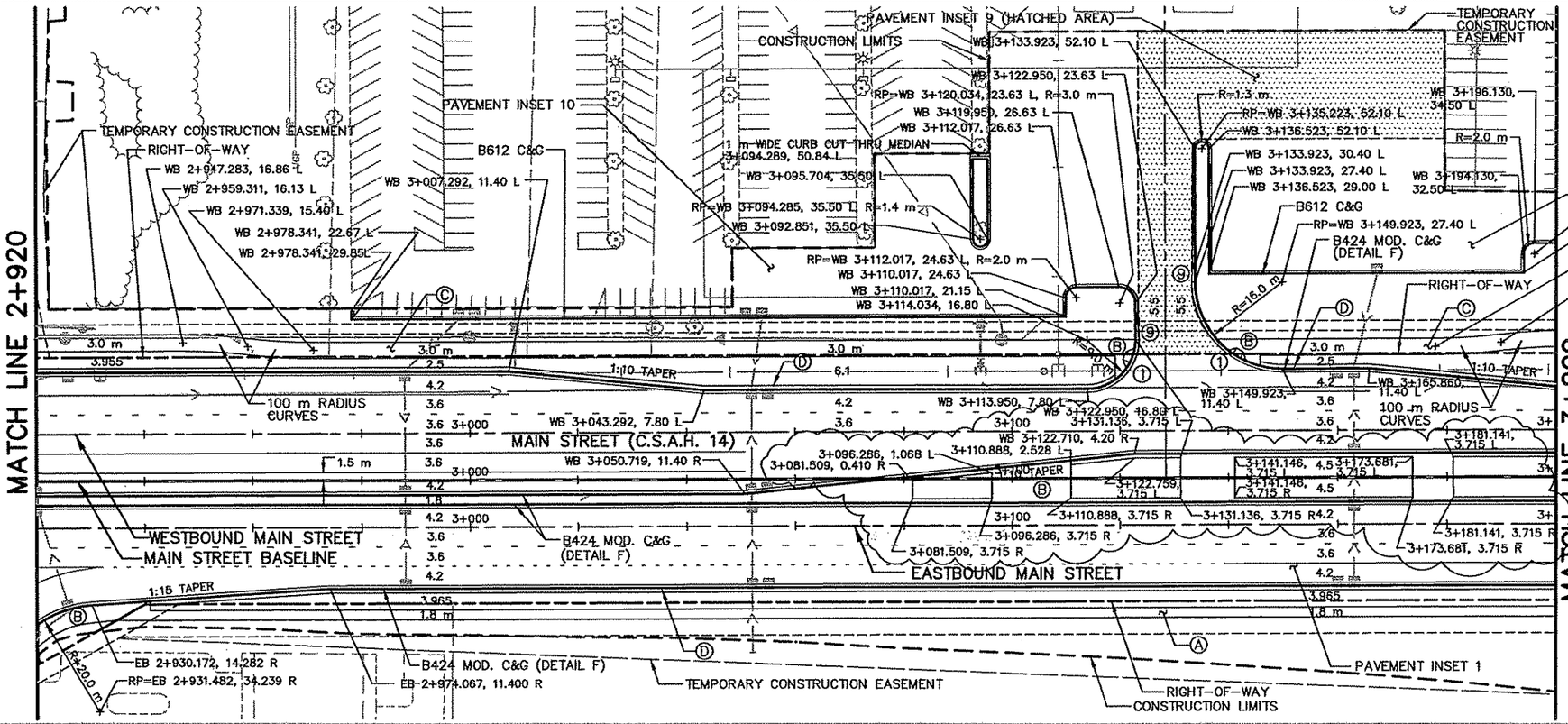
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLANNED CONSTRUCTION
STATION 2+580.000 TO STATION 2+920.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 136 / 539

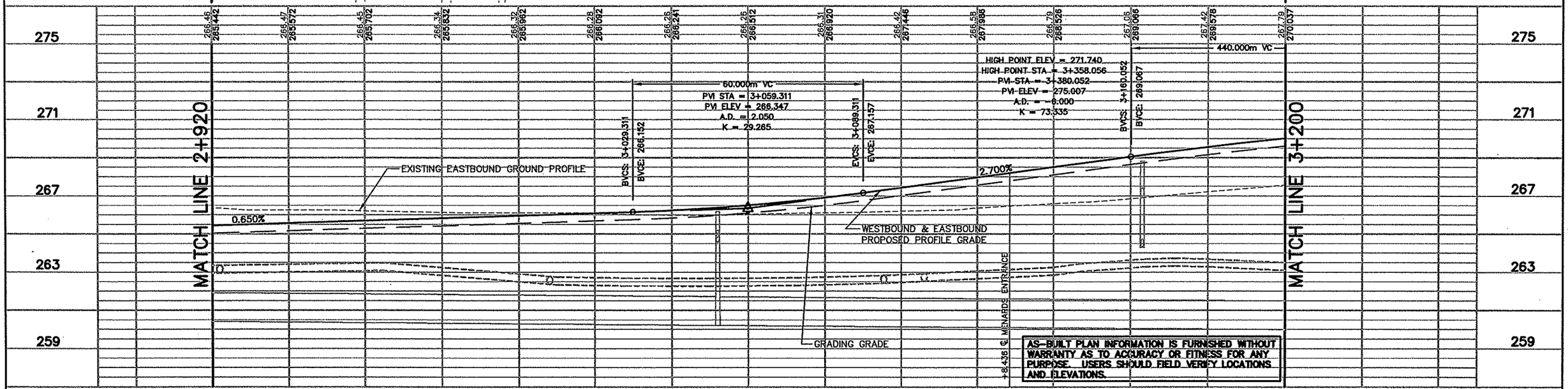
PLOT DATE: Apr 04 4 3:37pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\RING\242wpp03.dwg



CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



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4 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			REVISED OFFSET FOR B612 CURB CONSTRUCTION
2	JJL	6/28/00	MOD. REQ. #31: REMOVED SUBCUT FROM PROFILE
3	PMJ	6/28/00	MOD. REQ. #47: MODIFIED BIT PATH C
4	PMJ	7/5/00	MOD. REQ. #36: REVISED PER NEW MENARDS LAYOUT
5	PMJ	7/10/00	MOD. REQ. #47: MODIFIED BIT PATH C
6	JJL	10/12/00	CLAR #13: ADD STATIONS FOR MED. LANDSCAPING
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/PJM
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242WPP04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLANNED CONSTRUCTION
STATION 2+920.000 TO STATION 3+200.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 137 / 539

PLOT DATE: Apr 0_ J04 3:38pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S_ GRING\242wpp04.dwg

SEE SHEET 13 OF 31

END S.A.P. 02-614-19
END S.A.P. 114-020-19
BEGIN S.P 0212-40 (TH242=242)
BEGIN S.P. 114-010-11
MAIN STREET (CSAH 14/TH 242)
B/L STA. 3+211.698

MATCH LINE 3+200

242RAMPC C/L

WB 3+254.240, 26.65 L (2)
WB 3+203.564, 34.50 L
B612 C&G
RP=WB 3+239.743, 22.80 L
WB 3+202.000, 16.86 L
WB 3+201.860, 7.80 L
T.C.E.
STA AHEAD: 3+222.5783
STA BACK: 3+222.6778
R=15.0 m
B424 MOD. C&G (DETAIL F)
7.555
WB 3+240.316, 7.80 L
WB 3+249.771, 4.200 R
RP=WB 3+249.771, 7.20 R
WB 3+252.723, 6.66 R
EB 3+294.708, 5.10 L
EB 3+253.269, 7.74 L
RP=EB 3+252.855, 12.20 R
RP=EB 3+250.317, 7.20 L
EB 3+250.317, 4.20 L
EB 3+252.855, 10.20 R
EB 3+216.017, 11.40 R
EB 3+236.092, 14.852 R
450 mm DIP
(2) EB 3+252.174, 20.33 R
EB 3+251.758, 13.87 R
EB 3+271.022, 10.20 R
TEMPORARY CONSTRUCTION EASEMENT
242LEGD1 C/L

BEGIN D424 C & G HWY 10/47 8+048.540
(2) (1.0m TRANSITION TO FLAT)
PCC=WB 3+313.292, 12.913 L
PT=WB 3+319.517, 12.125 L
PC=WB 3+307.066, 13.70 L
(2) WB 3+268.854, 15.41 L
WB 3+269.579, 12.48 L
PC=WB 3+272.895 12.986 L
R=25.0 m
PT=WB 3+278.829, 13.70 L
B424 MOD. C&G (DETAIL F)
WB 3+272.491 10.20 L
RP=EB 3+271.022 13.200 R
EB 3+291.484, 10.20 R
RP=EB 3+291.484 13.200 R
B424 MOD. C&G (DETAIL F)
EB 3+343.409, 13.10 R
F & I IMPACT ATTENUATOR (QUADGUARD)
242RAMPD C/L
CONSTRUCTION LIMITS

RP=EB TH10/47 8+047.634, 10.2 m L
INSTALL TRAFFIC BARRIER TYPE B8307
BEGIN D424 C & G HWY 10/47 8+074.527
(2) (1.0m TRANSITION TO FLAT)
WB 3+321.898, 10.20 L
CONSTRUCTION LIMITS
WESTBOUND MAIN STREET/TH 242
MAIN STREET/TH 242 BASELINE
PC=WB 3+417.628, 12.986 L
PT=WB 3+417.030, 12.839 L
R=25.0 m
F & I IMPACT ATTENUATOR (QUADGUARD)
PAVEMENT INSET 1
WB 3+412.486, 10.20 L
PC=WB 3+411.096 12.125 L
PT=WB 3+423.562, 13.70 L
B424 MOD. C&G (DETAIL F)
PAVEMENT INSET 1
MAIN STREET (TH 242)
CONSTRUCT APPROACH PANELS, DESIGN A (SEE SHEET 172A)
WB 3+400.748, 11.40 R
WB 3+436.767, 4.20 R
WB 3+436.927, 6.0 R
CONSTRUCT APPROACH PANELS, DESIGN A (SEE SHEET 172A)
EB 3+401.935, 4.20 L
EB 3+454.144, 13.10 R
EB 3+447.699, 11.53 R
EB 3+442.235, 10.20 R
EB 3+351.649, 10.20 R
EB 3+349.855, 11.53 R
END D424 C & G HWY 10/47 8+106.493
(2) (1.0m TRANSITION TO FLAT)
RP=EB TH10/47 8+135.820, 8.8 m L
INSTALL TRAFFIC BARRIER TYPE B8307
PAVEMENT INSET 15 (SHADED AREA - PAVING BETWEEN SLOPE-PAVING TOE-WALL AND TH 10/47 SHOULDER)
END D424 C & G HWY 10/47 8+132.839
(2) (4.0m TRANSITION TO FLAT)
CONSTRUCTION LIMITS
EASTBOUND MAIN STREET/TH 242
B424 MOD. C&G (DETAIL F)

MATCH LINE 3+480

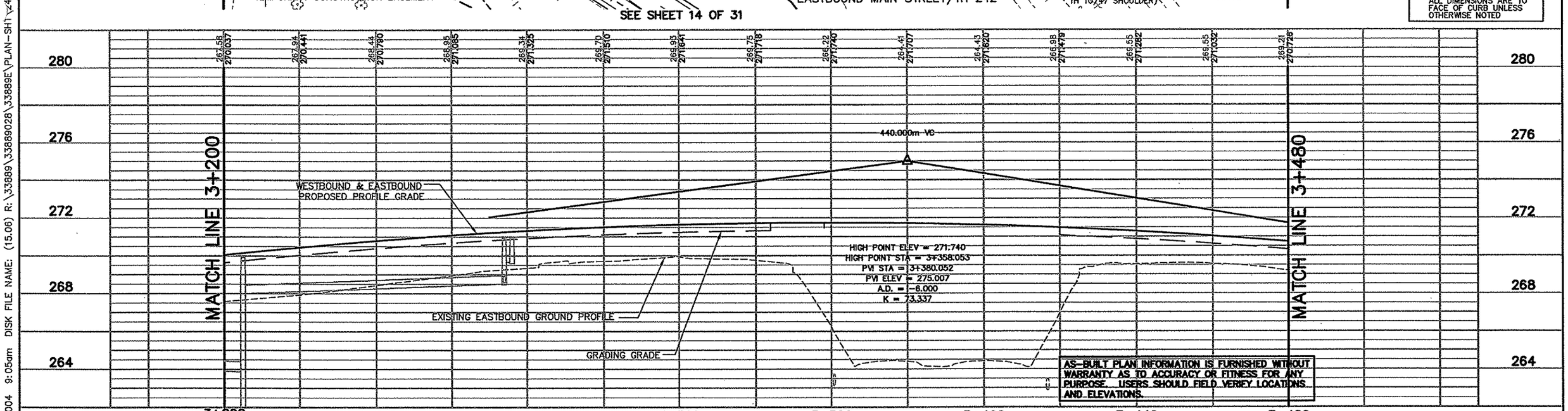
SEE SHEET 14 OF 31

HORIZONTAL SCALE IN METERS
5 0 10 20

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

5 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED 25 m RAD TO BIKE PATH, CHNG NOTE 5 STD. PLATE 7108F TO 7109, REMOVED LETTER DESIGNATION FOR STD. PLATES, ADDED APPROACH NOSE 7113 TO CONC. ISLAND CORNERS, DEL. PED RAMP EB 3+256 RT
2	PMJ	6/28/00	MOD. REQ. #47: MODIFIED BIT PATH C
3	PMJ	7/5/00	MOD. REQ. #36: REMOVED WALL FROM PROJECT
4	PMJ	7/10/00	MOD. REQ. #47: MODIFIED BIT PATH C
5	PMJ	8/04/00	MOD. REQ. #53: ADD C&G AND PAVING BENEATH BRIDGE
5	JJL	10/12/00	CLARIFICATION #13: ADD STATIONS FOR MED. LANDSCAPING
6	JJL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kiefer
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (TH 242)
PLANNED CONSTRUCTION
STATION 3+200.000 TO STATION 3+480.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 138 / 539

PLOT DATE: Aug 10, 2004 9:05am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SHT\242epp05.dwg

DRAWINGS
\PBOX
I2E_DRN
I2E-TXT
I2E-PLN
I2E-CLM
I2EPROF
I2-
I2-EUT
I2MHVEG
I2MHETO

SEE SHEET 9 OF 31

242RAMPA C/L

END B424 MOD. C&G ②
WB 3+504.881, 16.70 L
WB 3+505.674, 13.96 L
WB 3+515.489, 23.90 L
+RP=WB 3+537.131, 36.40 L

BEGIN B424 C&G
WB 3+523.889, 15.20 L
PC=WB 3+536.898, 13.70 L
R=25.0 m
PCC=WB 3+542.343, 14.30 L
R=25.0 m
PT=WB 3+547.787, 14.90 L
WB 3+543.433, 4.20 R

WB 3+502.773
10.200 L

B424 C&G
MOD.

WB 3+537.139, 11.40 L
RP=WB 3+502.773, 13.20 L
RP=WB 3+543.432, 7.20 R
WB 3+499.572, 5.10 R
WB 3+540.433, 7.20 R
EB 3+540.433, 7.80 L
RP=EB 3+543.432, 7.80 L
EB 3+512.579, 2.60 R
EB 3+543.433, 4.80 L
EB 3+515.561, 12.88 R
EB 3+510.822, 12.20 R
EB 3+511.000, 14.00 R
RP=EB 3+512.578,
13.200 R
EB 3+515.842, 15.47 R

WESTBOUND MAIN STREET/TH 242
MAIN STREET/TH 242 BASELINE
PC=WB 3+629.751, 14.90 L
R=25.0 m
PT=WB 3+631.414, 14.845 L
PC=WB 3+647.749, 13.755 L
R=25.0 m
PT=WB 3+649.412, 13.70 L

CONSTRUCTION LIMITS
PROPOSED DITCH ALIGNMENT, LT.
PERMANENT EASEMENT
RIGHT-OF-WAY
B424 MOD. C&G (DETAIL F)
MAIN STREET (TH 242)

WB 3+648.463, 10.200 L
WB 3+630.473, 11.40 L
3+546.309, 3.715 L
3+546.309, 3.115 R
3+652.181, 3.715 L
3+662.726, 3.715 L
3+685.315, 3.715 L
3+700.893, 3.715 L
3+716.551, 3.715 L
3+733.480, 3.715 L
3+739.822, 3.115 R
3+743.485, 3.715 L
EB 3+739.841, 4.80
3+743.485, 2.747 R
3+619.768, 3.715 L
3+619.768, 3.115 R
3+610.681, 3.715 L
3+3+610.681, 3.115 R
3+662.726, 3.115 R
3+652.181, 3.115 R
EB 3+665.248, 10.20 R
3+700.893, 3.115 R
3+716.551, 3.115 R
3+685.315, 3.115 R
3+733.480, 3.115 R
EB 3+771.989, 10.2 R
RP=EB 3+771.989, 12.0 R
0+066.196
EB 3+748.355, 11.40 R
EB 3+683.248, 11.40 R

1:15 TAPER
1:10 TAPER
1.2 m SHLD
3.0 m SHLD
1.8 m
1.5 m

B424 MOD. C&G
(DETAIL F)
PAVEMENT INSET 1

EB 3+547.177, 10.20 R
END D424 C&G
TRANSITION TO B424 MOD. C&G
EB 3+536.922, 14.25 R
RP=EB 3+547.176, 25.20 R
EB 3+532.305, 27.16 R

EASTBOUND MAIN STREET/TH 242
℄ PRIVATE DRIVE
R=24.893 m
PERMANENT EASEMENT
RIGHT-OF-WAY
CONSTRUCTION BY OTHERS
PROPOSED DITCH
ALIGNMENT, RIGHT
CONSTRUCTION LIMITS
242RAMPB C/L

SEE SHEET 10 OF 31
SEE SHEET 31 OF 31

MATCH LINE 3+480
MATCH LINE 3+780

5 0 10 20
HORIZONTAL SCALE
IN METERS

CONSTRUCTION NOTES:

Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
Ⓒ BITUMINOUS PATH (DETAIL A)
Ⓓ MAINTENANCE STRIP (DETAIL C)
① CONST. CONC. PEDESTRIAN CURB RAMP
② DROP CURB
③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
④ CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
⑤ CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
⑥ 3.0 m C&G TRANSITION, B618 TO B424
⑦ 3.0 m C&G TRANSITION B624 TO B424
⑧ 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
⑨ 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

272
268
264
260
256

MATCH LINE 3+480
MATCH LINE 3+780

WESTBOUND & EASTBOUND
PROPOSED PROFILE GRADE
120.000m VC
PVI STA = 3+741.342
PVI ELEV = 283.085
A.D. = 2.800
K = 42.857
BVCS: 3+600.052
EVCE: 267.747
BVCS: 3+881.342
EVCE: 285.065
-3.30%
GRADING GRADE
EXISTING EASTBOUND GROUND PROFILE
PROPOSED DITCH PROFILE, RT.
PROPOSED DITCH PROFILE, LEFT
LIMITS OF MUCK EXCAVATION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

3+480 3+520 3+560 3+600 3+640 3+680 3+720 3+760

6 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED 25 m RADII TO BIKE PATH
			CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			DEL. PED RAMP WB 3+539 LT.
			ADDED CONTROLLED ACCESS 3+548-3+780, RT.
2	PMJ	7/10/00	MOD. REQ. #47: MODIFIED BIT PATH C
3	IKR	8/18/00	ADJUSTED PROFILE VIEW FOR MUCK
4	JJL	10/12/00	CLAR #13: ADD STATIONS FOR MEDIAN LANDSCAPING
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP06
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (TH 242)
PLANNED CONSTRUCTION
STATION 3+480.000 TO STATION 3+780.000

CITY PROJECT 98-20

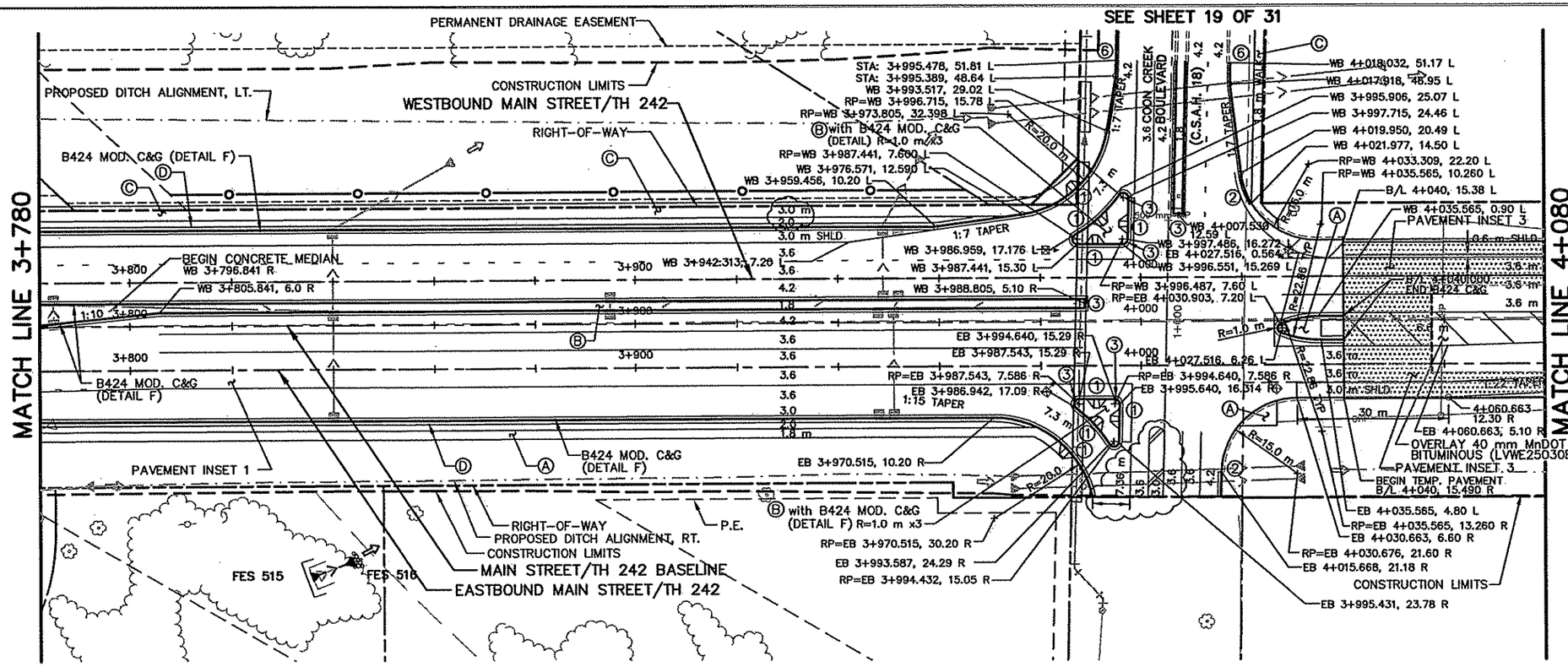
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 139 / 539

PLOT DATE: Oct 12, 2000 11:14am DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\Cad9E\PLAN-SHT\242epp06.dwg

DRAWINGS

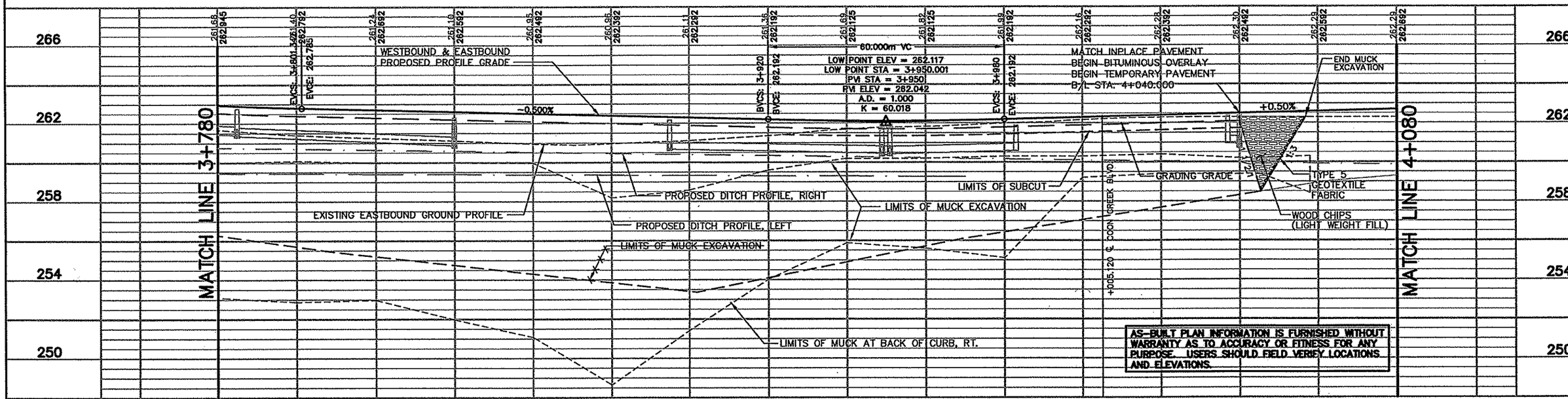
2PLN2A
PBOX
2E_DRN
2E-TXT
2E-PLN
2E-CLM
2E
2E
2-ESCM
2-EUT
2MHVEG
2MHETO



CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

7 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			ADDED NOTE FOR BITUMINOUS OVERLAY
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			DELETED D/W AT 3+852.540
			ADDED APPROACH NOSE 7113 TO CONC. ISLAND CORNERS
			ADDED CONTROLLED ACCESS 3+810-3+970, LT.
2	PMJ	7/10/00	MOD.REQ.#47: MODIFIED BIT. PATH C
3	IKR	7/14/00	MOD.REQ.#51: DELETED MEDIAN 4+005, RT. (PRIVATE DR.)
	IKR	8/18/00	ADJUSTED PROFILE VIEW FOR MUCK
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/(TH 242)
PLANNED CONSTRUCTION
STATION 3+780.000 TO STATION 4+040.000

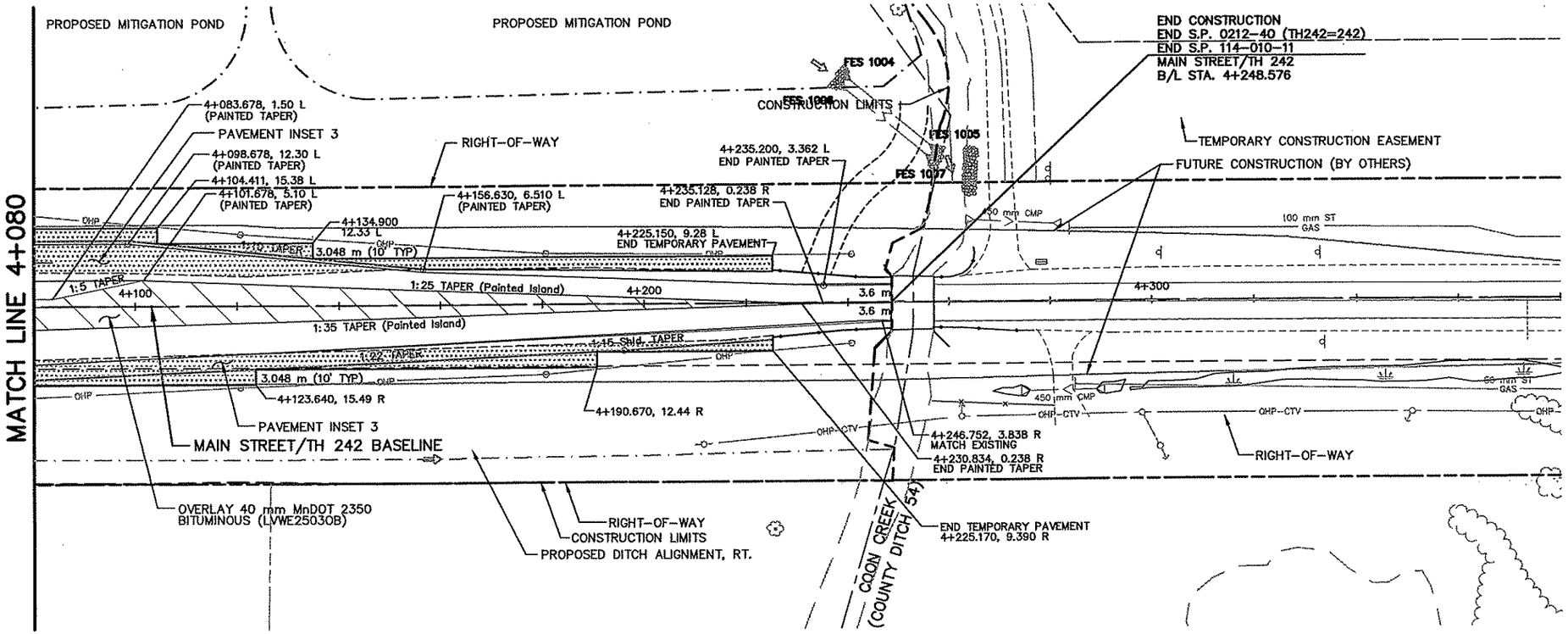
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 140 / 539

PLOT DATE: Aug 1 04 4:32pm DISK FILE NAME: (15.06) R:\33889\3889028\3889E\PLAN-SI 2epp07.dwg

DRAWINGS
_STRIPE
12PLN2A
IT_POND
\PBOX
12MHETO
12E-PLN
12EPROF
12E-ALI
12-ESUM
12-EUT
12MHVEG

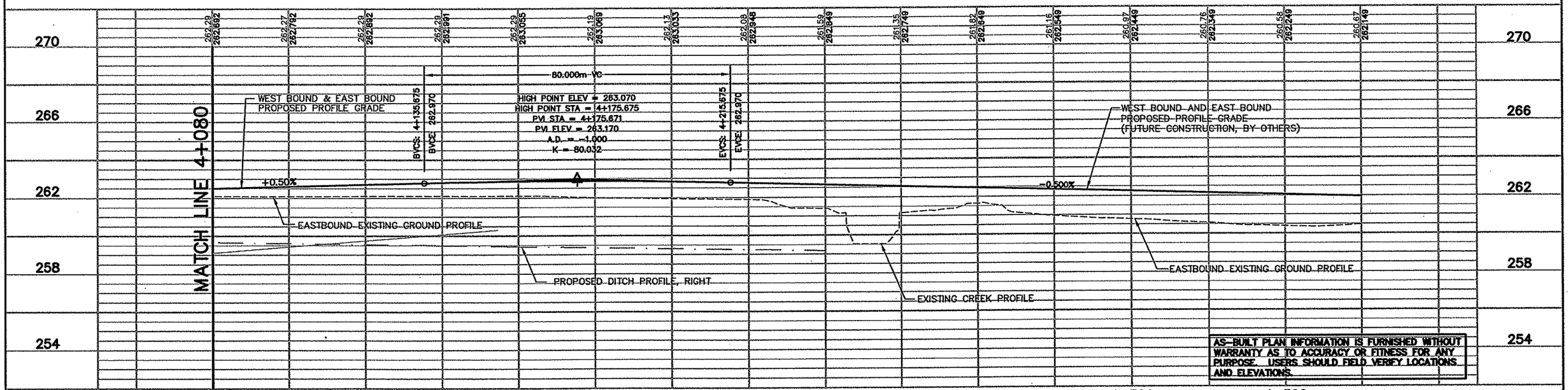


5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)570-1378 (FAX)

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Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (TH 242)
PLANNED CONSTRUCTION
STATION 4+080.000 TO STATION 4+380.000

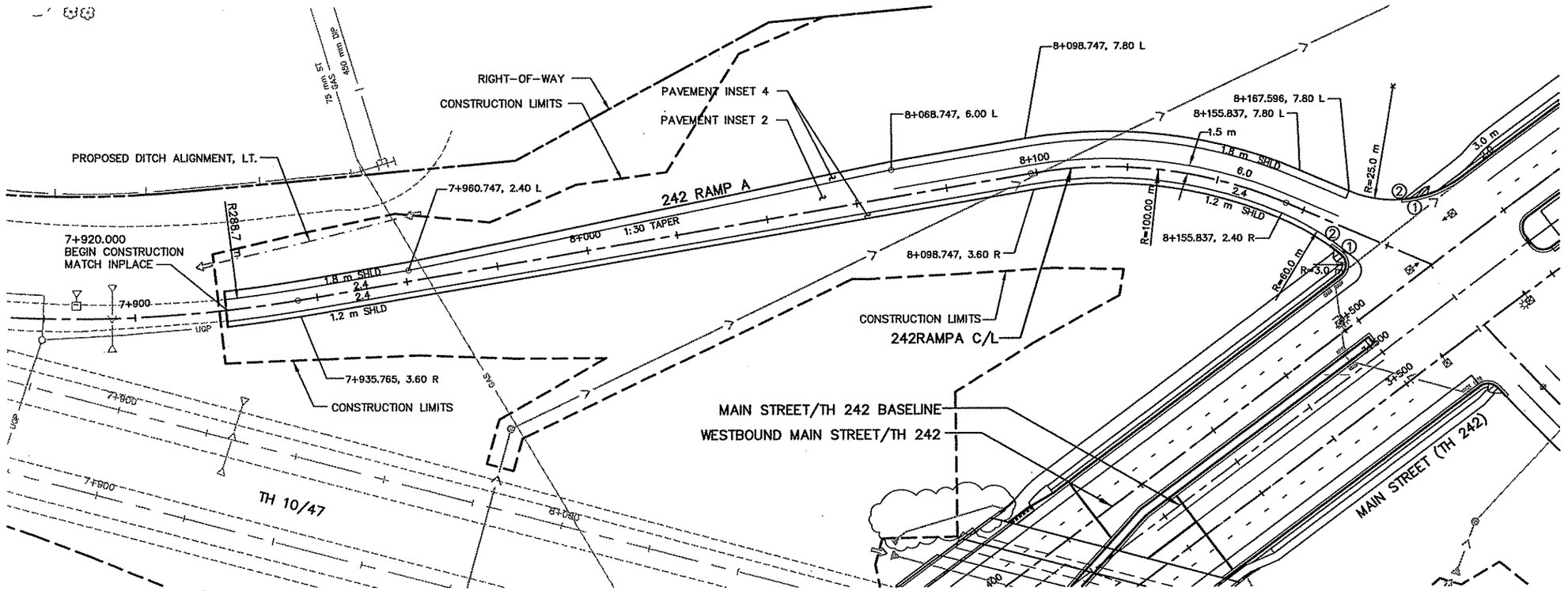
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 141 / 539

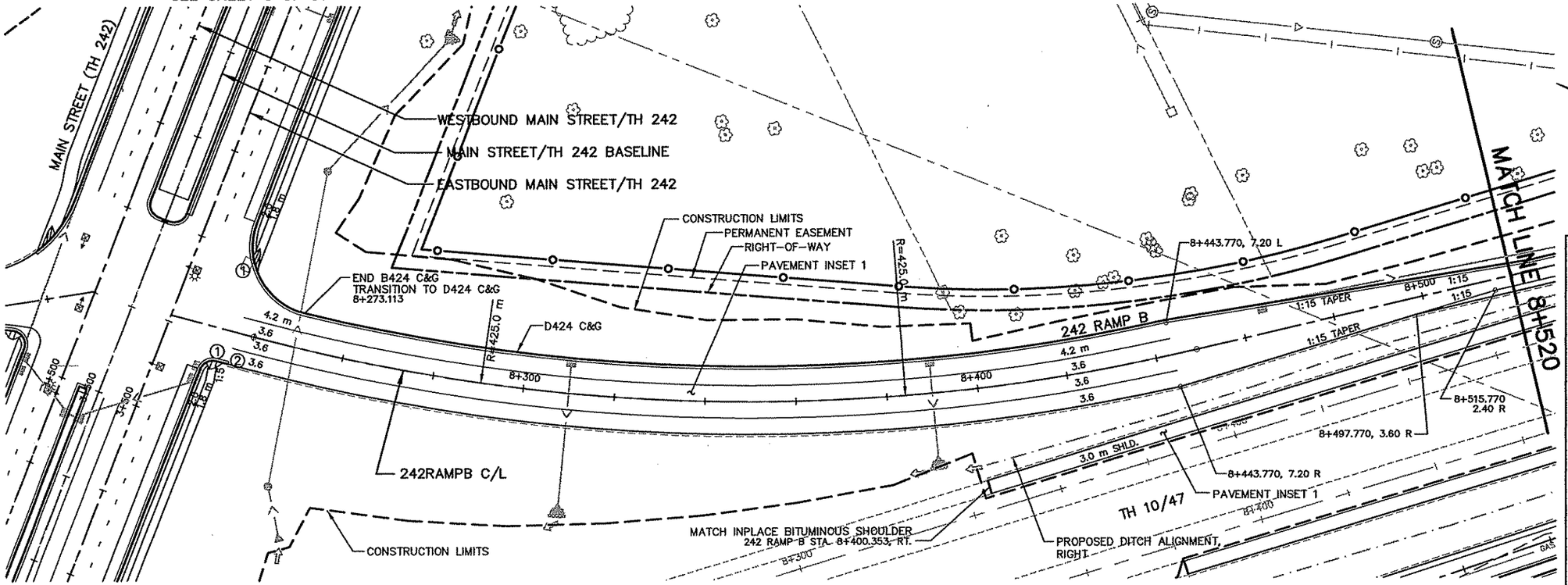
PLOT DATE: Jul 12, 3:38pm DISK FILE NAME: (14.01h (Hardware Lock)) R:\33889\33889028\E\PLAN-SHT\242epp08.dwg

DRAWINGS
APBOX
42E_DRN
42EPROF
42E-TXT
42E-PLN
42E-CLM
42MHVEG
42MHETO



DRAWINGS
APBOX
42E_DRN
42MHETO
42E-TXT
42E-PLN
42E-CLM
42E
42-M
42-EUT
42MHVEG

SEE SHEET 6 OF 31



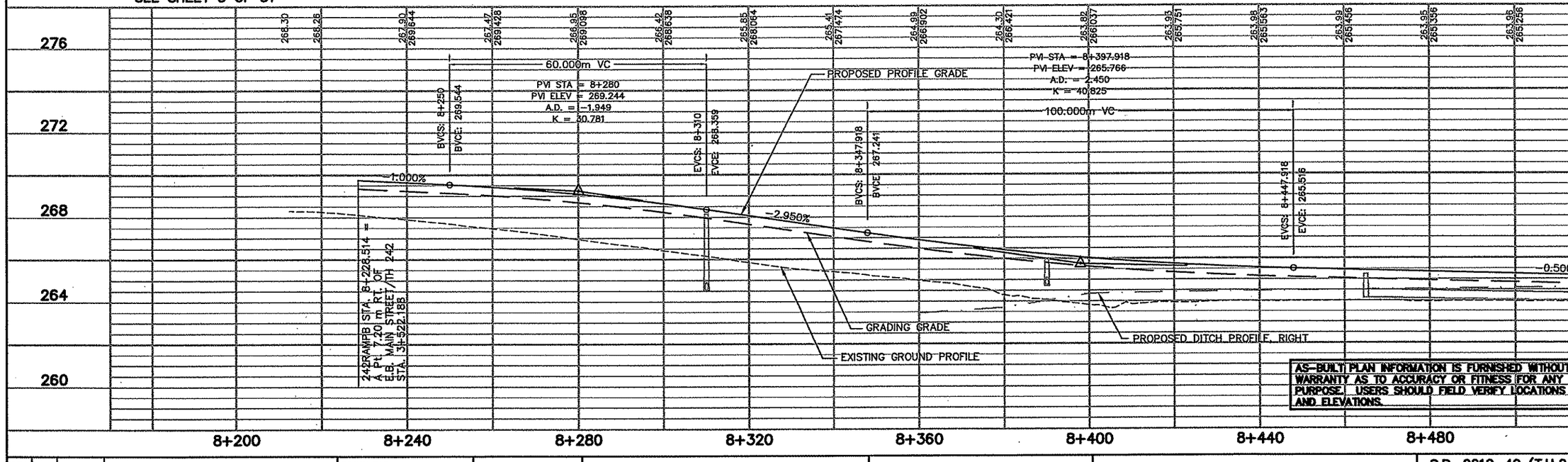
SEE SHEET 5 OF 31

5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

10 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATE
			ADDED CONTROLLED ACCESS 8+285-8+520, LT.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP13
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.15.

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B
PLANNED CONSTRUCTION
STATION 8+221.272 TO STATION 8+520.000

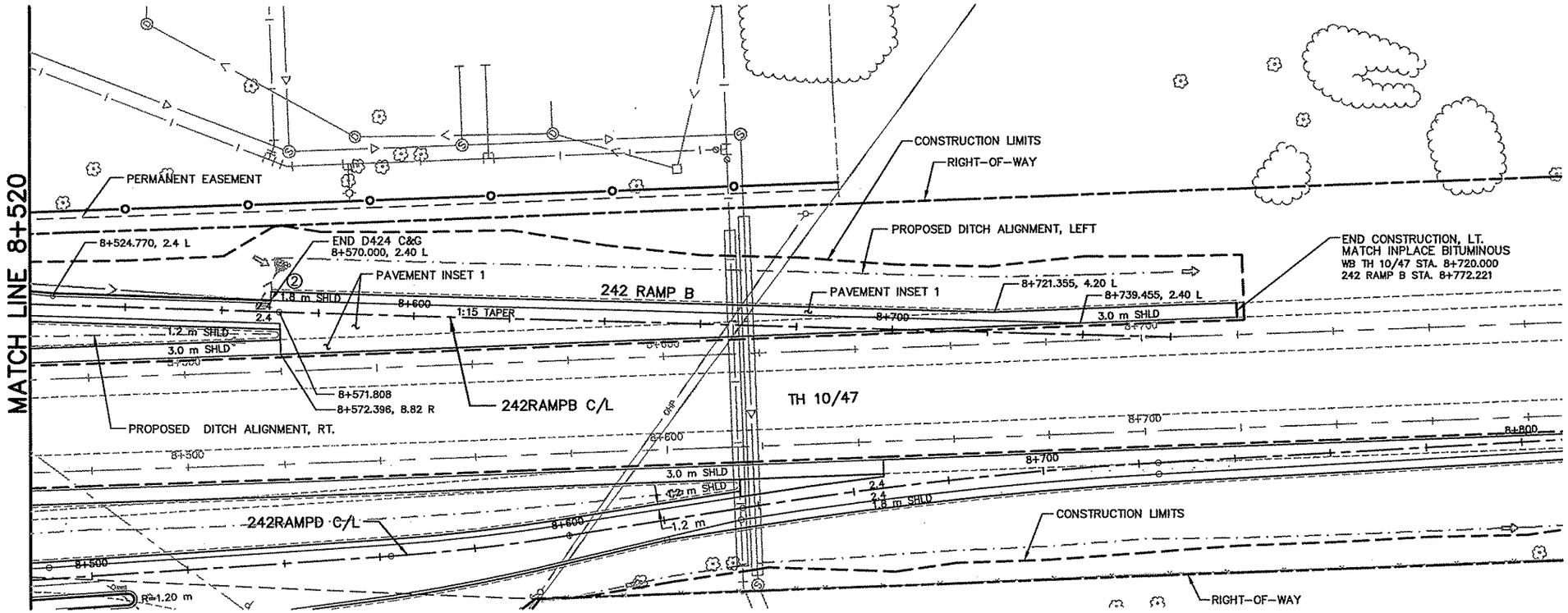
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 143 / 539

PLOT DATE: Jan 13, 00 12:49pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\...epp13.dwg

DRAWINGS
APBOX
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42E_DRN
42EPROF
42E-PLN
42E-CLM
42E
42
42-
42MHVEG
42MHETO

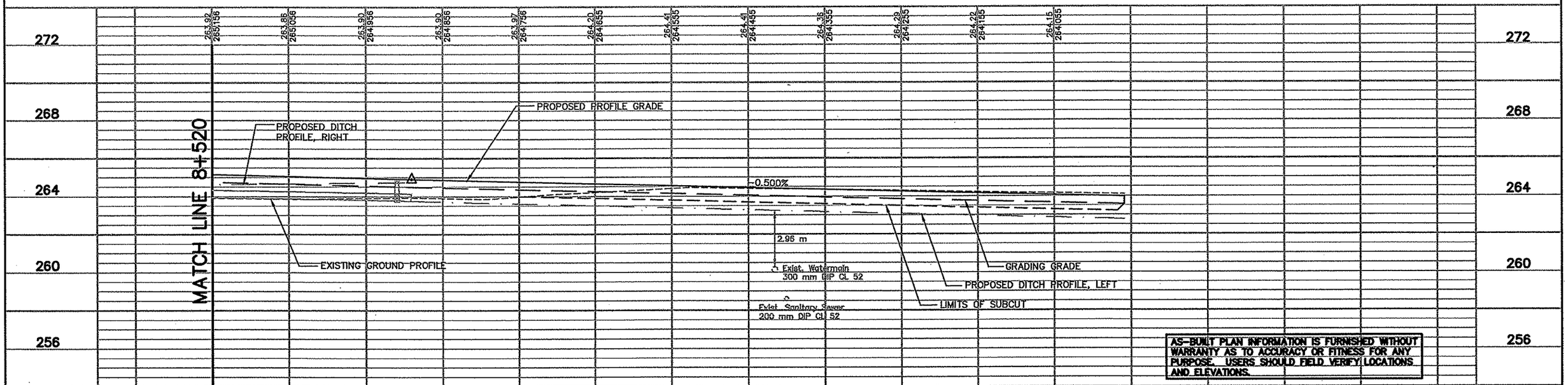


5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
- Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
- Ⓒ BITUMINOUS PATH (DETAIL A)
- Ⓓ MAINTENANCE STRIP (DETAIL C)
- ① CONST. CONC. PEDESTRIAN CURB RAMP
- ② DROP CURB
- ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- ④ CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- ⑤ CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- ⑥ 3.0 m C&G TRANSITION, B618 TO B424
- ⑦ 3.0 m C&G TRANSITION B624 TO B424
- ⑧ 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- ⑨ 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			ADDED CONTROLLED ACCESS 8+520-8+688, LT.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP14
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.15.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B, RAMP B ACCESS AREA
PLANNED CONSTRUCTION
STATION 8+520.000 TO STATION 8+780.000

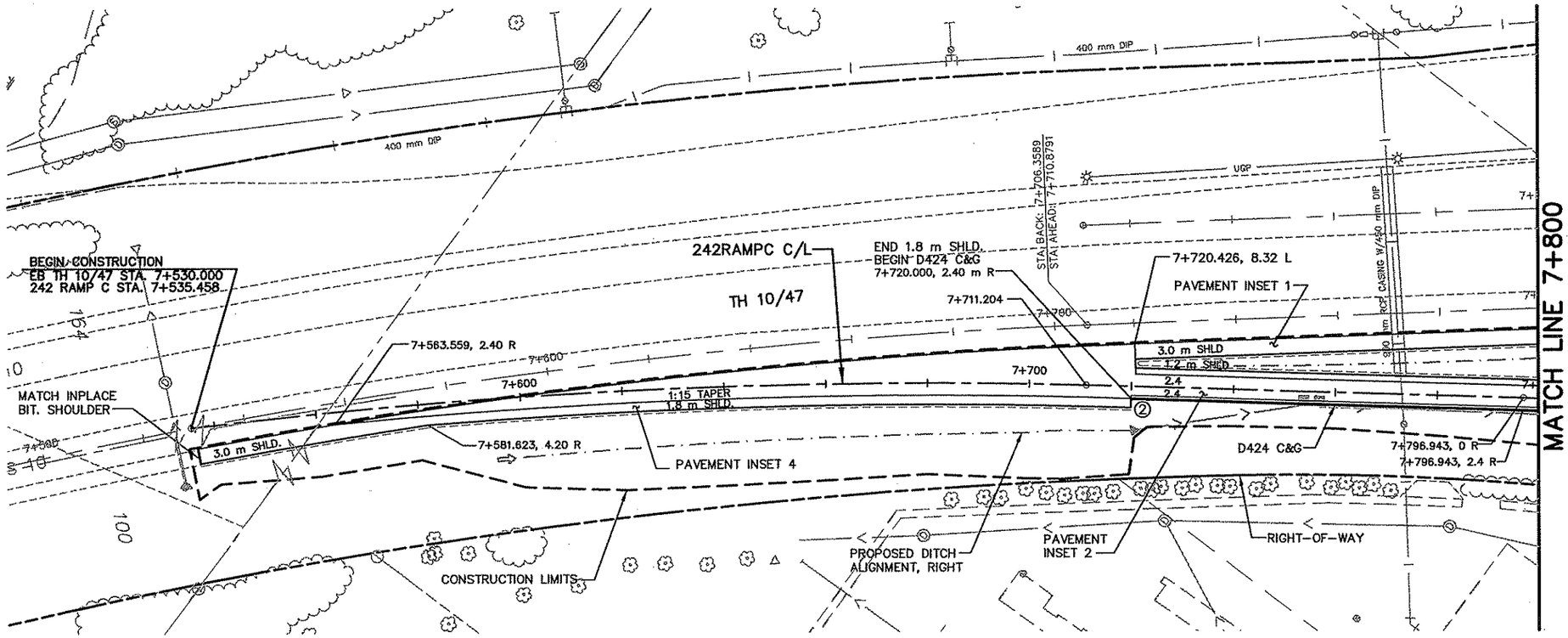
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 144 / 539

PLOT DATE: Jan 13 12:45pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\epp14.dwg

DRAWINGS
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42E-TXT
42E-PLN
42E-CLM
42EPROF
42
42-EOF
42MHVEG
42MHETO



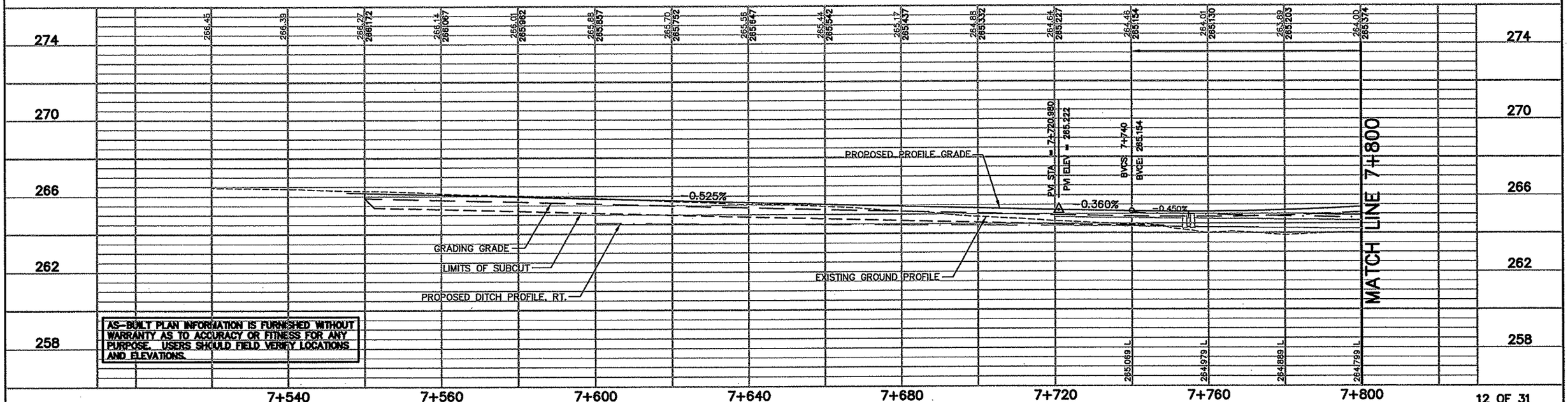


5 0 10 20
HORIZONTAL SCALE
IN METERS

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP15
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP C ACCESS AREA, 242 RAMP C
PLANNED CONSTRUCTIION
STATION 7+540.000 TO STATION 7+800.000

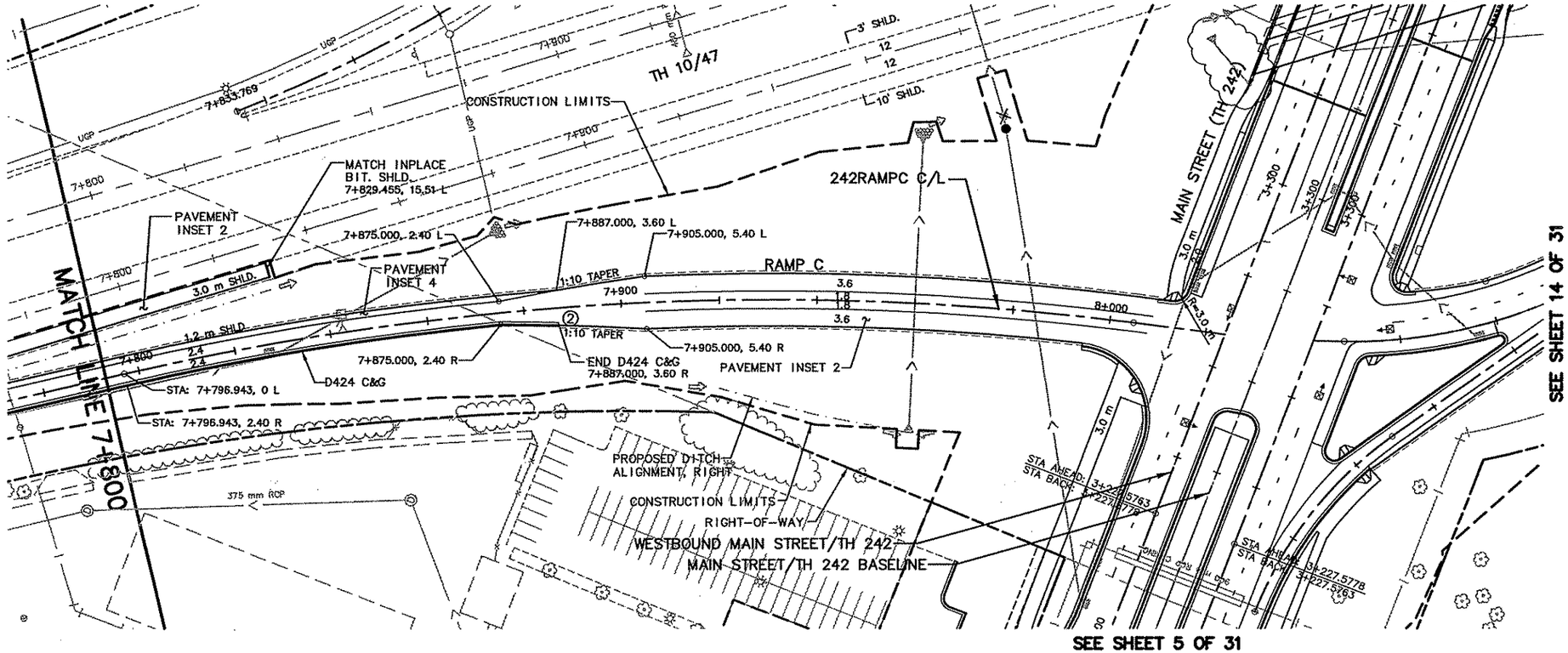
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 145 / 539

PLOT DATE: Jan 03 5:45pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH app15.dwg

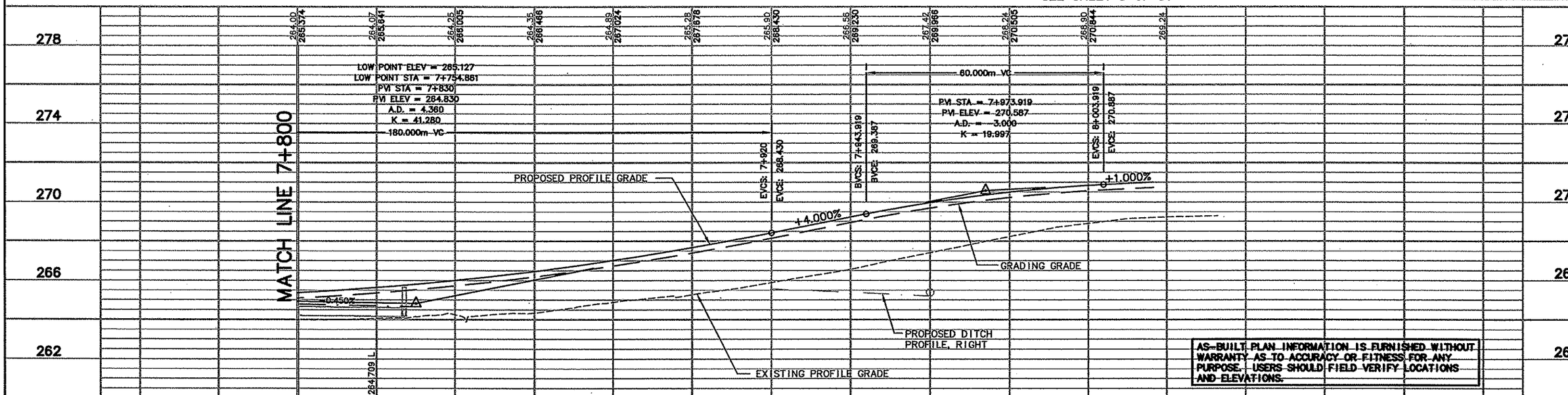
DRAWINGS
APBOX
42PLNW
42E_DRN
42CLM-W
42EPROF
42E-TXT
42E PLN
42 M
42 I
42-ESUM
42-EUT
42MHVEG
42MHETO



CONSTRUCTION NOTES:

- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
- Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
- Ⓒ BITUMINOUS PATH (DETAIL A)
- Ⓓ MAINTENANCE STRIP (DETAIL C)
- ① CONST. CONC. PEDESTRIAN CURB RAMP
- ② DROP CURB
- ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- ④ CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- ⑤ CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- ⑥ 3.0 m C&G TRANSITION, B618 TO B424
- ⑦ 3.0 m C&G TRANSITION B624 TO B424
- ⑧ 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- ⑨ 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



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13 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	JJL	7/5/00	MOD. REQ. #36: REMOVED WALL FROM PROJECT
3	JJL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP16
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C
PLANNED CONSTRUCTION
STATION 7+800.000 TO STATION 8+015.901

CITY PROJECT 98-20

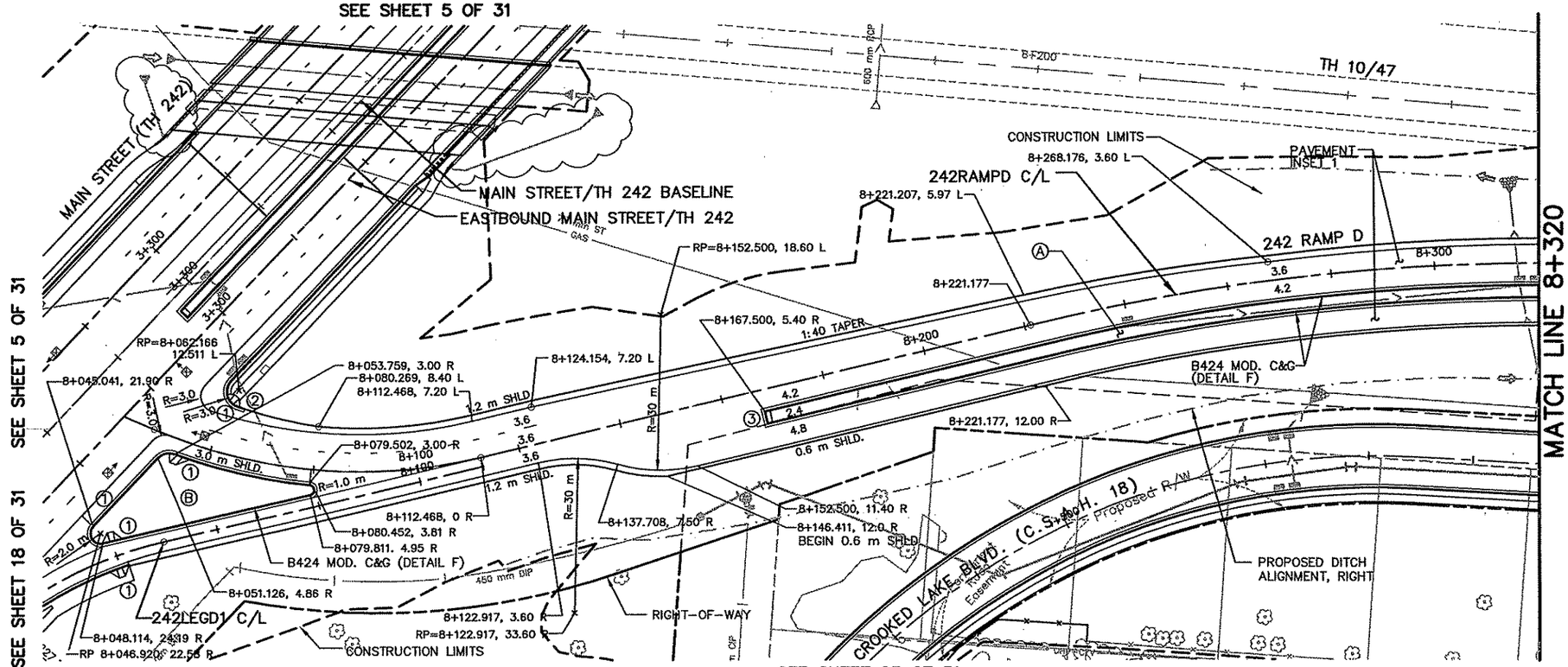
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 146 / 539

PLOT DATE: Dec 04 4:36pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SHT pp16.DWG

J DRAWINGS
12CLM-W
\PBOX
12-PUT
12-ALIW
12PLNW
12E_DRN
12[illegible]
12L
12E-PLN
12E-CLM
12E-ALI
12-ESUM
12-EUT
12MHVEG
12MHETO

SEE SHEET 5 OF 31

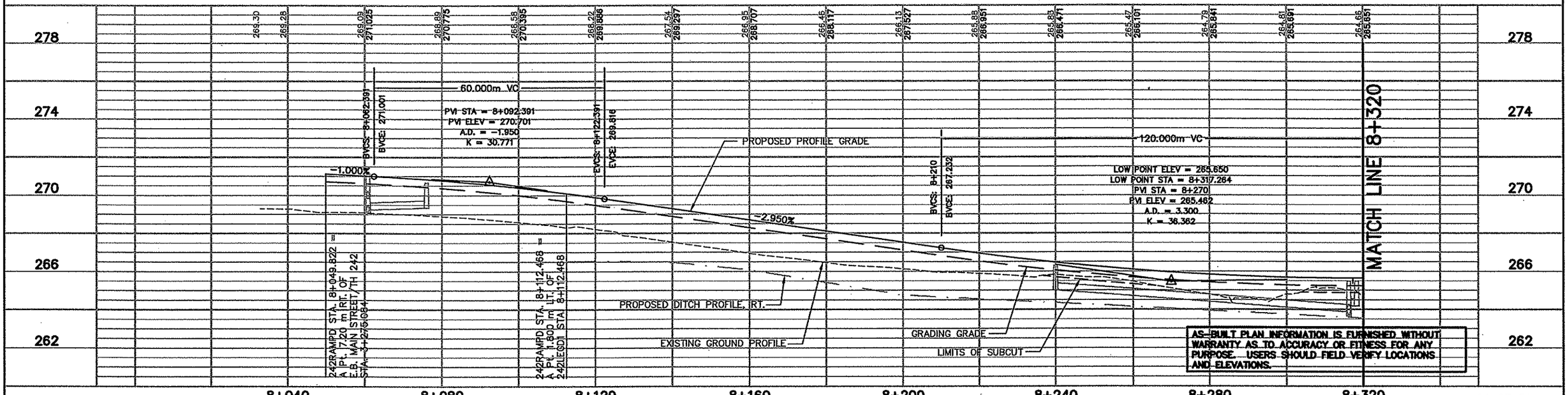


5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109C
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			MOVED D APPROACH NOSE FROM 8+180 TO 8+167.50
2	JJL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP17
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.18.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
PLANNED CONSTRUCTION
STATION 8+049.822 TO STATION 8+320.000

CITY PROJECT 98-20

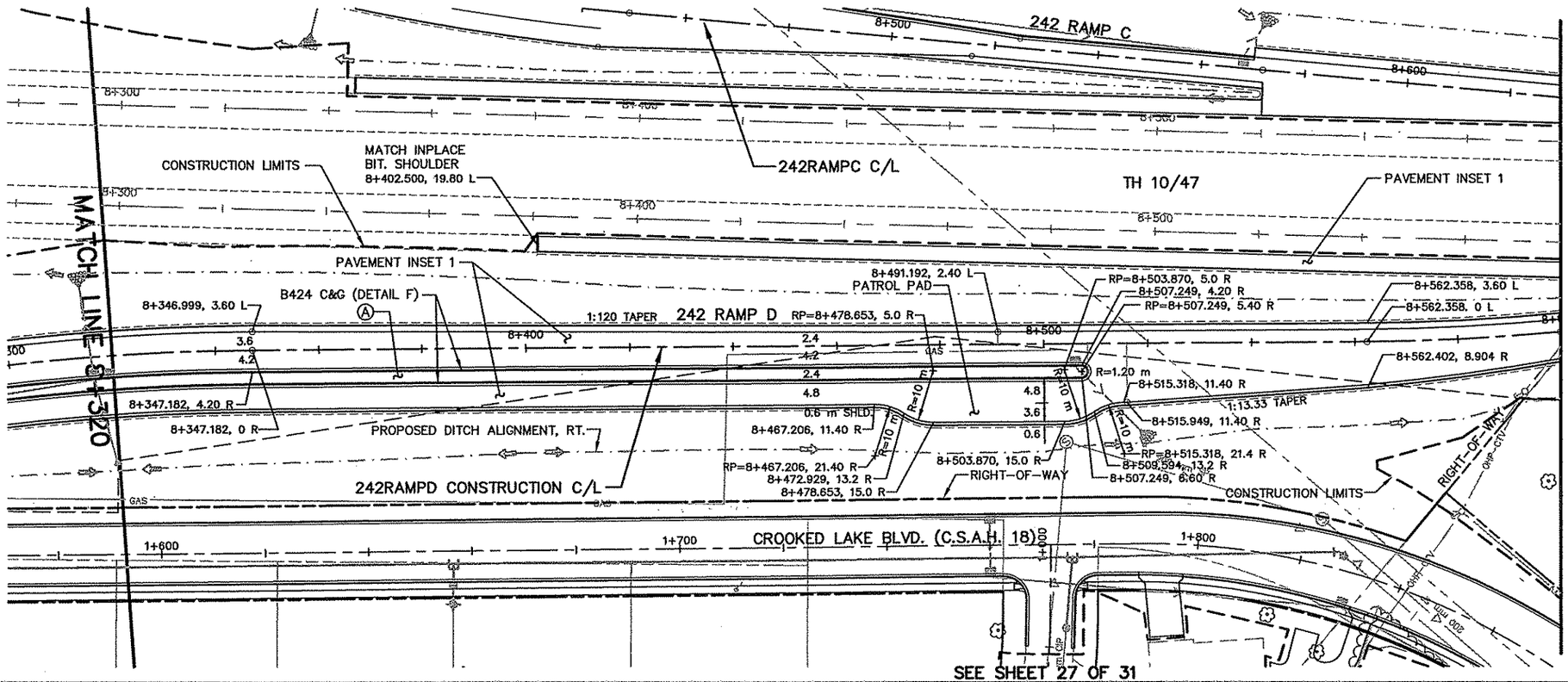
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 147 / 539

PLOT DATE: Dec 0,...00 4:53pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SHI...\242epp17.dwg

REF DRAWINGS

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APBOX
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42PLNW
42-PUT
42E_DRN
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42E-[illegible]M
42EPROF
42E-ALI
42-ESUM
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42MHVEG
42MHETO

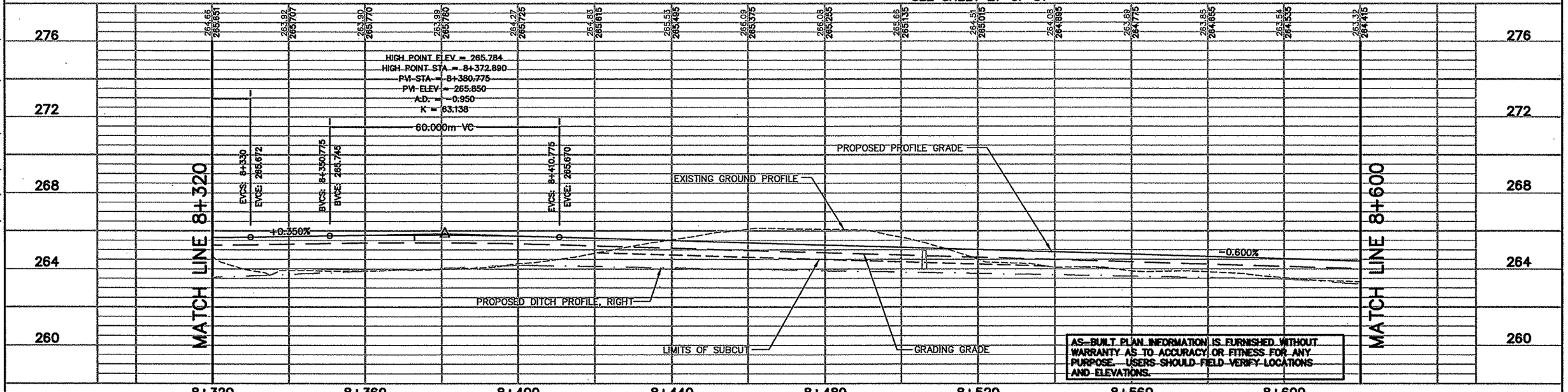


5 0 10 20
HORIZONTAL SCALE
IN METERS

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



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15 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP18
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
PLANNED CONSTRUCTION
STATION 8+320.000 TO STATION 8+600.000

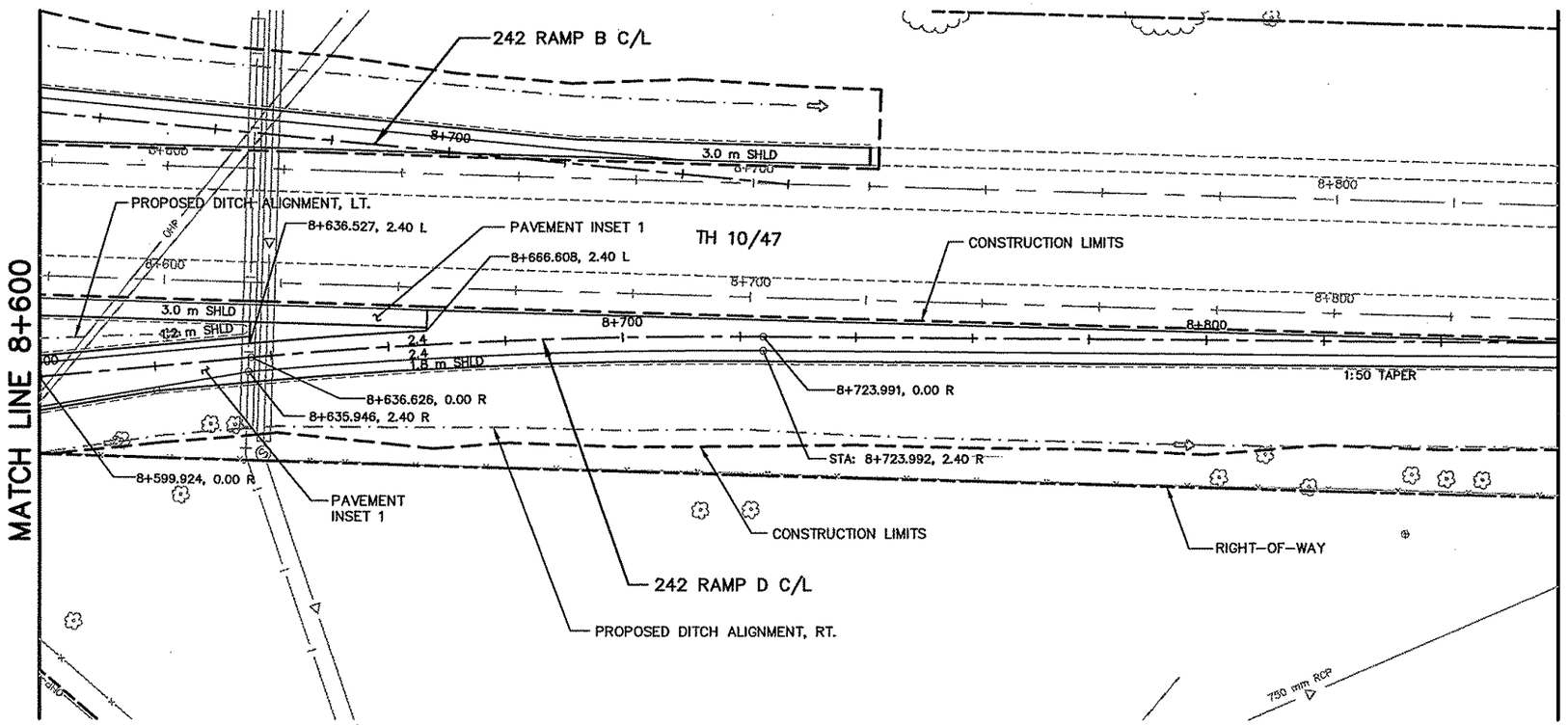
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 148 / 539

PLOT DATE: Jan 06, 2000 11:41am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\242epp18.dwg

+ DRAWINGS
APBOX
12E-TXT
12E_DRN
12E-PLN
12E-CLM
12EPROF
12
12-EUT
12MHVEG
12MHETO



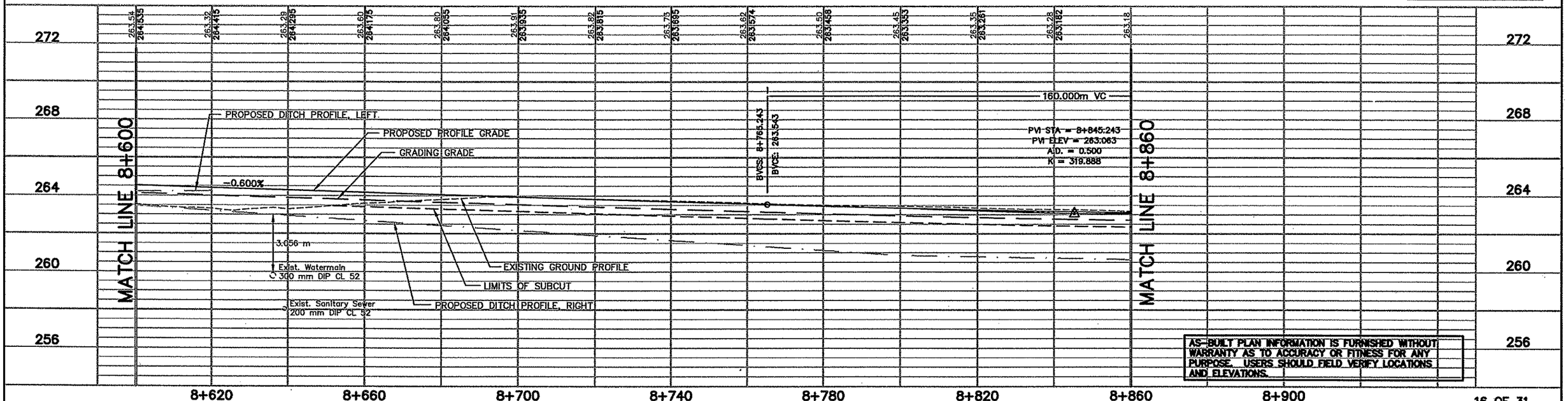


5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



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16 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO NOTE 5
			CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP19
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D, RAMP D MERGE AREA
PLANNED CONSTRUCTION
STATION 8+600.000 TO STATION 8+860.000

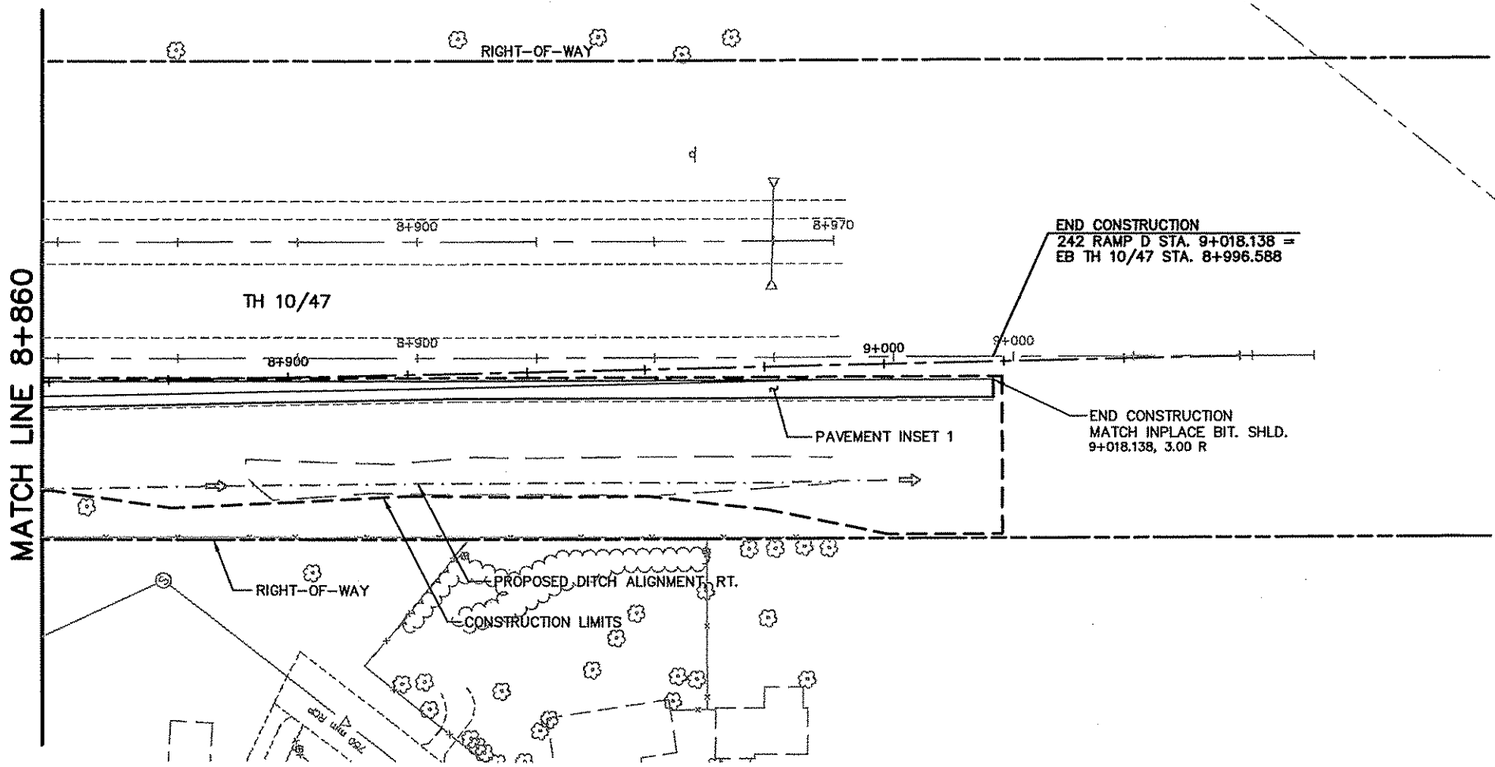
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 149 / 539

PLOT DATE: Jan 04, ..00 8:35am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH...+2epp19.dwg

P DRAWINGS
I2E_DRN
\PBOX
I2EPROF
I2E-CLM
I2E-PLN
I2E-ALI
I2
I2
I2MHVCG
I2MHETO



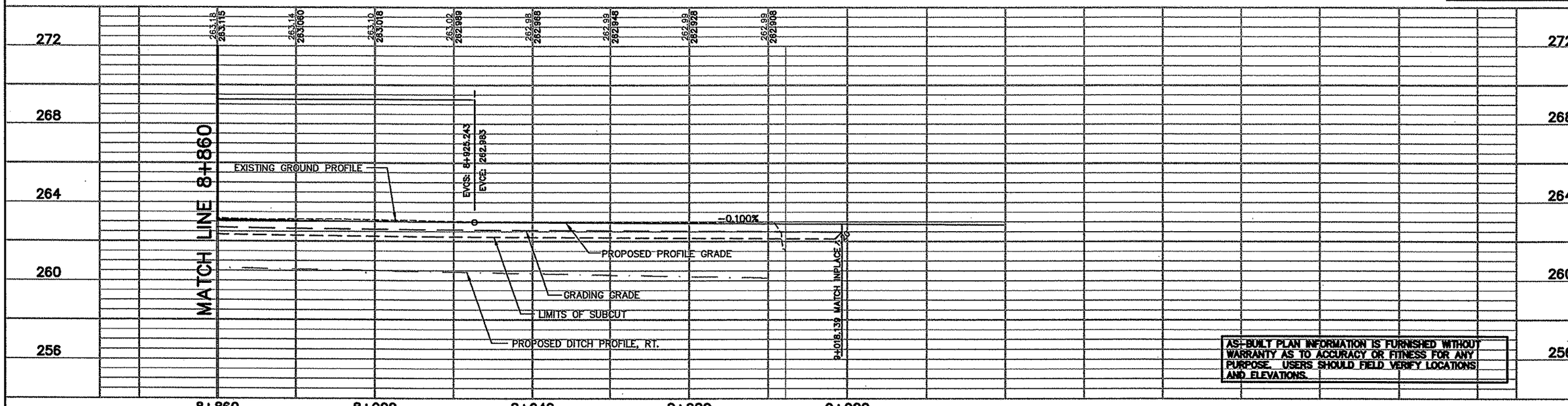


5 0 10 20
HORIZONTAL SCALE
IN METERS

CONSTRUCTION NOTES:

- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
- Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
- Ⓒ BITUMINOUS PATH (DETAIL A)
- Ⓓ MAINTENANCE STRIP (DETAIL C)
- ① CONST. CONC. PEDESTRIAN CURB RAMP
- ② DROP CURB
- ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- ④ CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- ⑤ CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- ⑥ 3.0 m C&G TRANSITION, B618 TO B424
- ⑦ 3.0 m C&G TRANSITION B624 TO B424
- ⑧ 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- ⑨ 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK
CHKED. BY: PBD/KPK
DWG. NAME: 242EPP20
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D MERGE AREA
PLANNED CONSTRUCTION
STATION 8+860.000 TO STATION 9+020.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 150 / 539

PLOT DATE: Jan 04, 00 8:39am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH\...epp20.dwg

DRAWINGS

242-PUT
SAPBOX
242E-TXT
242-ALIN
242E_DRN
242PLNW
242CLM-W
242EPROF
242F-TN
24-
2-
24-
242-LUT
242MHVEG
242MHETO

END S.A.P. 02-614-19
END S.A.P. 114-020-19
BEGIN S.P. 0212-40 (TH242=242)
BEGIN S.P. 114-010-11
MAIN STREET (CSAH 14/TH 242)
B/L STA. 3+211.698

SEE SHEET 13 OF 31

SEE SHEET 5 OF 31

SEE SHEET 14 OF 31

SEE SHEET 14 OF 31

MAIN STREET (C.S.A.H. 14)

MAIN STREET/T.H. 242

EB TH 10/47

CONSTRUCTION LIMITS

242RAMPD C/L

END ALIGNMENT
8+112.468, 0 R

242 LEG D1

B424 MOD. C&G (DETAIL F)

PAVEMENT INSET 1

8+002.908, 0 R

CONSTRUCTION LIMITS

PROTECT CORNER

242LEGD1 C/L

RIGHT-OF-WAY

B424 MOD. C&G (DETAIL F)

WESTBOUND MAIN STREET/TH 242

TEMPORARY CONSTRUCTION EASEMENT

MAIN STREET BASELINE

EASTBOUND MAIN STREET

CROOKED LAKE BLVD. (C.S.A.H. 18)

HORIZONTAL SCALE IN METERS
5 0 10 20

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 1.0 m C&G TRANSITION, B618 TO B424
- (7) 1.0 m C&G TRANSITION B624 TO B424
- (8) 1.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 1.0 m C&G TRANSITION B624 TO B424

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

278
274
270
266
262

PROPOSED PROFILE GRADE

60.000m VC
HIGH POINT ELEV = 270.834
HIGH POINT STA = 8+058.746
PVI STA = 8+063.946
PVI ELEV = 271.101
A.D. = 3.665
K = 16.372
BVCS: 8+033.946
BVCE: 270.646
EVCS: 8+093.646
EVCE: 270.455

+1.515%
-2.150%

GRADING GRADE

EXISTING GROUND PROFILE

242LEGD1 STA. 8+002.908 = A Pt. 9.0 m RT. OF E.B. MAIN STREET/TH242 STA. 3+216.017

242LEGD1 STA. 8+112.468 = A Pt. 1.80 m RT. OF 242RAMPD STA. 8+112.468

266.38 270.435 | 266.30 270.727 | 265.84 270.833 | 267.08 270.698 | 266.77 270.325 | 265.58

8+000 8+040 8+080 8+120

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

18 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109 REMOVED LETTER DESIGNATION FOR STD. PLATES
2	JJL	7/5/00	MOD. REQ. #36: REMOVED WALL FROM PROJECT
3	JJL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: 242EPP21
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 LEG D1
PLANNED CONSTRUCTION
STATION 8+002.908 TO STATION 8+112.393

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 151 / 539

PLOT DATE: Dec 000 5:24pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SH. 2epp21.dwg

DRAWINGS
2PLN2A
STRIPE
PBOX
2E_DRN
2E-TXT
2E-CLM
2-
OI
2E-
2-ESUM
2MHVEG
2MHETO
2-EUT

SEE SHEET 7 OF 31

PROPOSED DITCH ALIGNMENT

CONSTRUCTION LIMITS

B618 C&G

RIGHT-OF-WAY

OVERLAY 40 mm MNDOT 2350 BITUMINOUS (HVWE37540C)

BEGIN S.A.P. 02-618-24
COON CREEK BOULEVARD
STA. 1+200.000

B618 C&G
PAVEMENT INSET 6

RIGHT-OF-WAY

1:15 TAPER

1:7 TAPER

R=20.00 m

7.3 m

7.36 m

COON CREEK BOULEVARD (C.S.A.H. 18)

MATCH EXISTING PAVEMENT

MATCH EXISTING MEDIAN

1.8 m MEDIAN

1+050

1+100

1+200

MATCH EXISTING PAVEMENT

B618 C&G (DETAIL G)

B618 C&G (DETAIL G)

1.8 m WALK

0.3 m INSIDE R/W

R=15.00 m

CONSTRUCTION LIMITS

PROPOSED DITCH ALIGNMENT, RT.

MAIN STREET (TH 242)

COON CREEK BOULEVARD BASELINE

OVERLAY 40 mm MNDOT 2350 BITUMINOUS (HVWE37540C)

RIGHT-OF-WAY

B618 C&G

PAVEMENT INSET 5

MATCH EXISTING B618 C&G
STA: 1+200.000, 11.283 R

CONSTRUCTION LIMITS

MATCH LINE 1+240

SEE SHEET 7 OF 31

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 1.0 m C&G TRANSITION, B618 TO B424
- (7) 1.0 m C&G TRANSITION B624 TO B424
- (8) 1.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 1.0 m C&G TRANSITION B624 TO B424

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

LOW POINT ELEV = 262.033
LOW POINT STA = 0+0970.817
PVI STA = 0+0975.052
PVI ELEV = 261.985
A.D. = 2.720
K = 6.617
18.000m VC

EVCS: 0+965.052
EVCE: 262.050
BVCS: 0+984.052
EVCE: 262.185

PROPOSED PROFILE GRADE

EXISTING GROUND PROFILE

-0.72%
+1.325%
-1.176%
2.0% -2.0% +2.0% -2.0%

GRADING GRADE

LIMITS OF SUBCUT

SELECT GRANULAR FILL

0+955.971 BEGIN CONSTRUCTION

EASTBOUND MAIN ST/TH 242

WESTBOUND MAIN ST/TH 242

1+051.518 END CONSTRUCTION

+200 BEGIN RECONSTRUCTION

MATCH LINE 1+240

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0+960 1+000 1+040 1+080 1+120 1+160 1+200 1+240

19 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	12/30/99	CHANGED STREET GRADE STA 1+200-1+240
			CHANGED NOTE 5 STD. PLATE 7108 TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	JJL	5/9/00	MOD. REQ. #26: ADDED CURB ALONG COON CREEK BLVD
3	JJL	5/15/00	MOD.REQ.#28 ;REVISED MATCH CURB OFFSET 1+200.0, RT
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: COONPP01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

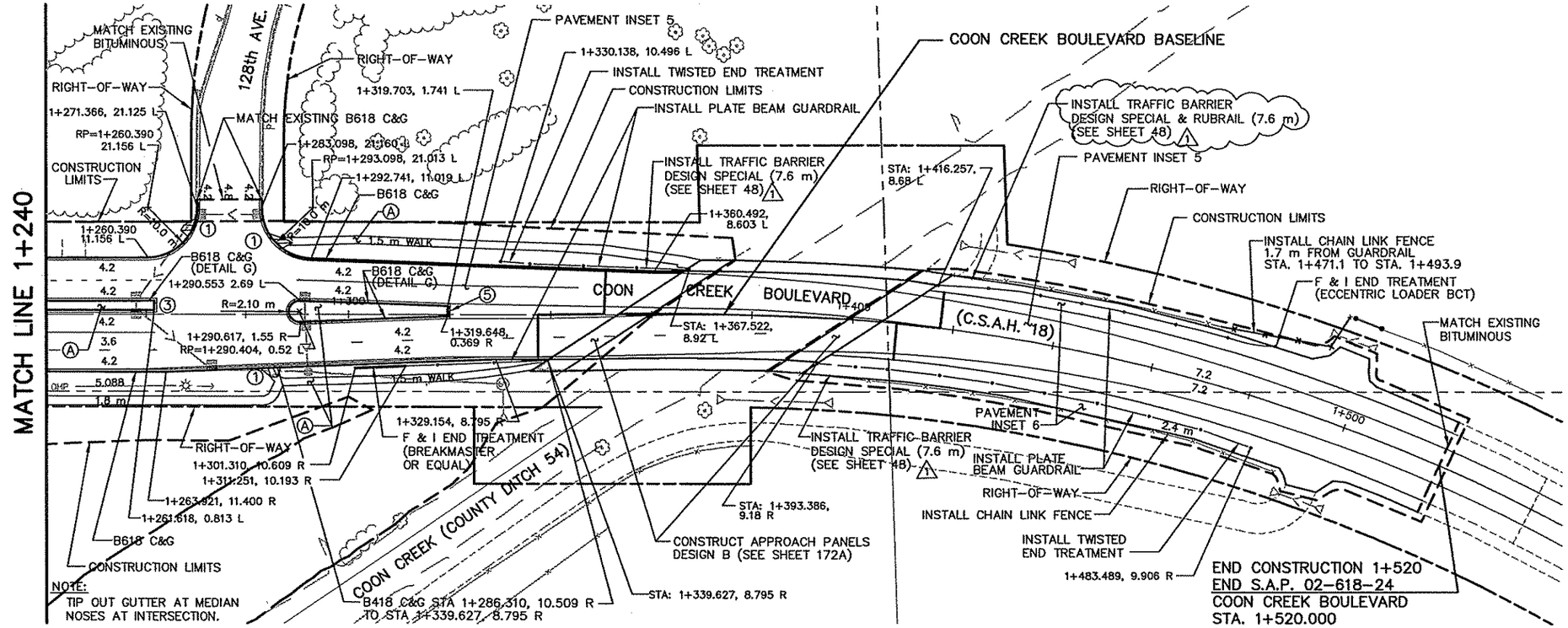
MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
PLANNED CONSTRUCTION
STATION 0+920.000 TO STATION 1+240.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 152 / 539

PLOT DATE: Jul .000 10:31am DISK FILE NAME: 389W\PLAN_SHT\ENGRING\Coonpp01.dwg R:\33889\338890



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	12/30/99	CHNGD GRADE STA 1+240-1+272 & CURVE LENGTH FOR CURVES AT STA 1+272.375 AND STA 1+494.638
			CHANGED INSTALL TO F&I END TREATMENT
			CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	JJL	2/11/00	ADDEND/1 MODIFIED APPROACH PANELS, ADDED INSTALL TRAFFIC BARRIER, MODIFIED CONSTR. LIMITS
3	JJL	5/15/00	MOD.REQ.#28; REV. CURB 1+264-1+360.5 LT.&RT. REV. PROFILE STA. FOR APRON & BRIDGE
4	PMJ	8/2/00	MOD. REQ. # 55; BREAKMASTER AND CURB MODIFICATION
5	JJL	9/14/00	MOD.REQ.#63; REVISED PROP. FENCE LOCATION (NW OF BRIDGE)
6	JJL	12/12/00	MOD.REQ.#42; ADDED RUBRAIL
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/PJM
DESIGN BY: KPK
CHKED. BY: PBD/KPK
DWG. NAME: COONPP02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
PLANNED CONSTRUCTION
STATION 1+240.000 TO STATION 1+520.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 153 / 539

20 OF 31

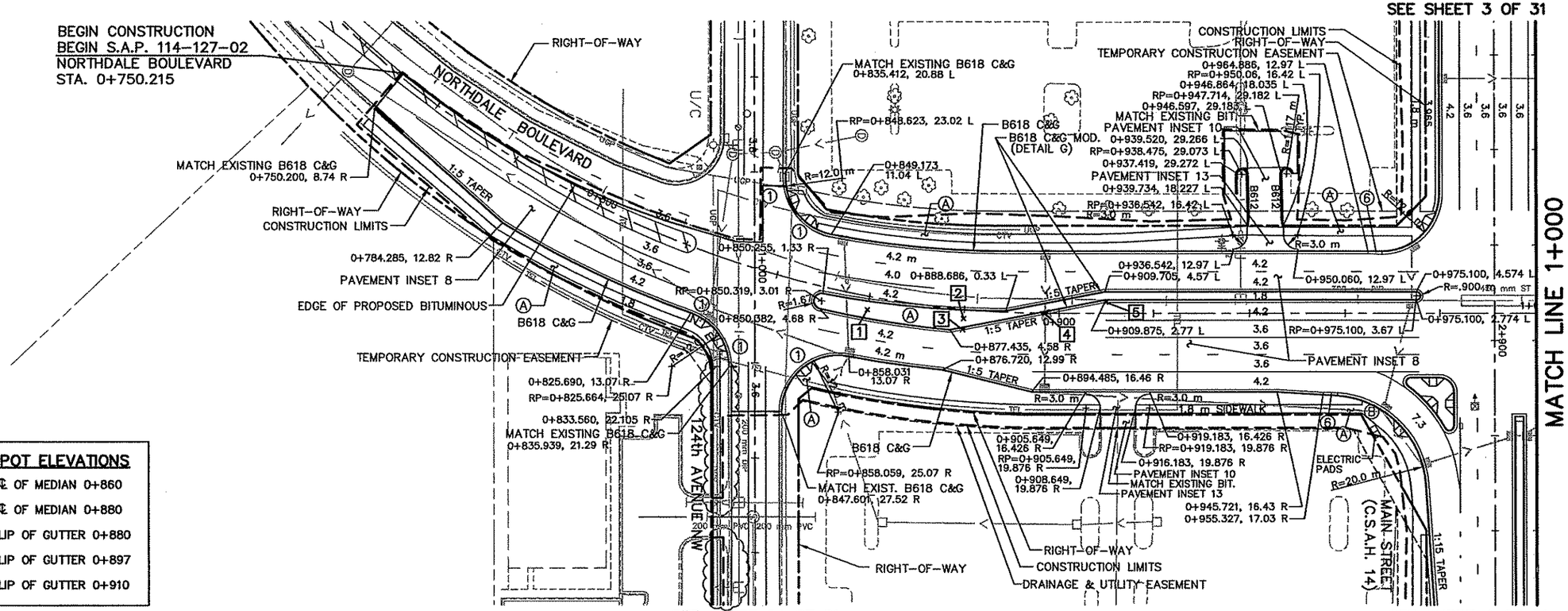
PLOT DATE: Dec 12, 2000 4:53pm DISK FILE NAME: (15.0) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\Coonpp02.dwg

DRAWINGS

STRIPE
PBOX
ALEPRF
2CLM–W
2–PUT
2E–TXT
2PI
2–
2–
2MHVEG
2MHETO
2–EUT

BEGIN CONSTRUCTION
BEGIN S.A.P. 114–127–02
NORTHDALE BOULEVARD
STA. 0+750.215

SEE SHEET 3 OF 31



SEE SHEET 24 OF 31

SEE SHEET 4 OF 31

NORTH

5 0 10 20
HORIZONTAL SCALE
IN METERS

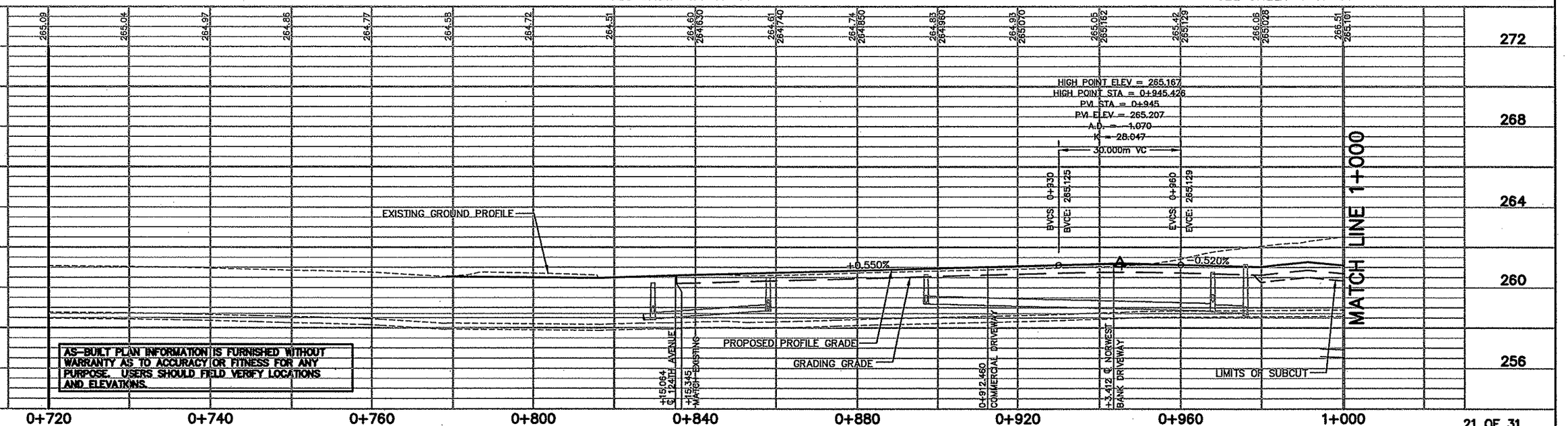
CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
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- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

PROPOSED SPOT ELEVATIONS

1	264.873	℄ OF MEDIAN 0+860
2	264.967	℄ OF MEDIAN 0+880
3	264.835	LIP OF GUTTER 0+880
4	264.748	LIP OF GUTTER 0+897
5	264.831	LIP OF GUTTER 0+910



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	IKR	6/01/00	MOD.REQ.#27: 0+850.5–0+970.4 RT. ADDED 1.8 m WALK, CONCRETE PADS FOR UTILITIES, DRIVEWAY & SPOT ELEVS. MODIFIED LIMITS 0+880–0+900
3	JJL	8/09/00	MOD.REQ.#56: DEL.WALK 124th AVE. 1+000.B–1+117.4, RT
4	JJL	9/07/00	MOD.REQ.#59: MODIFIED BANK ENTRANCE
4	PMJ	4/30/01	MOD. REQ. #88: ADDED CONC. WALK.
5	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: DALEPP01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
PLANNED CONSTRUCTION
STATION 0+750.000 TO STATION 1+000.000

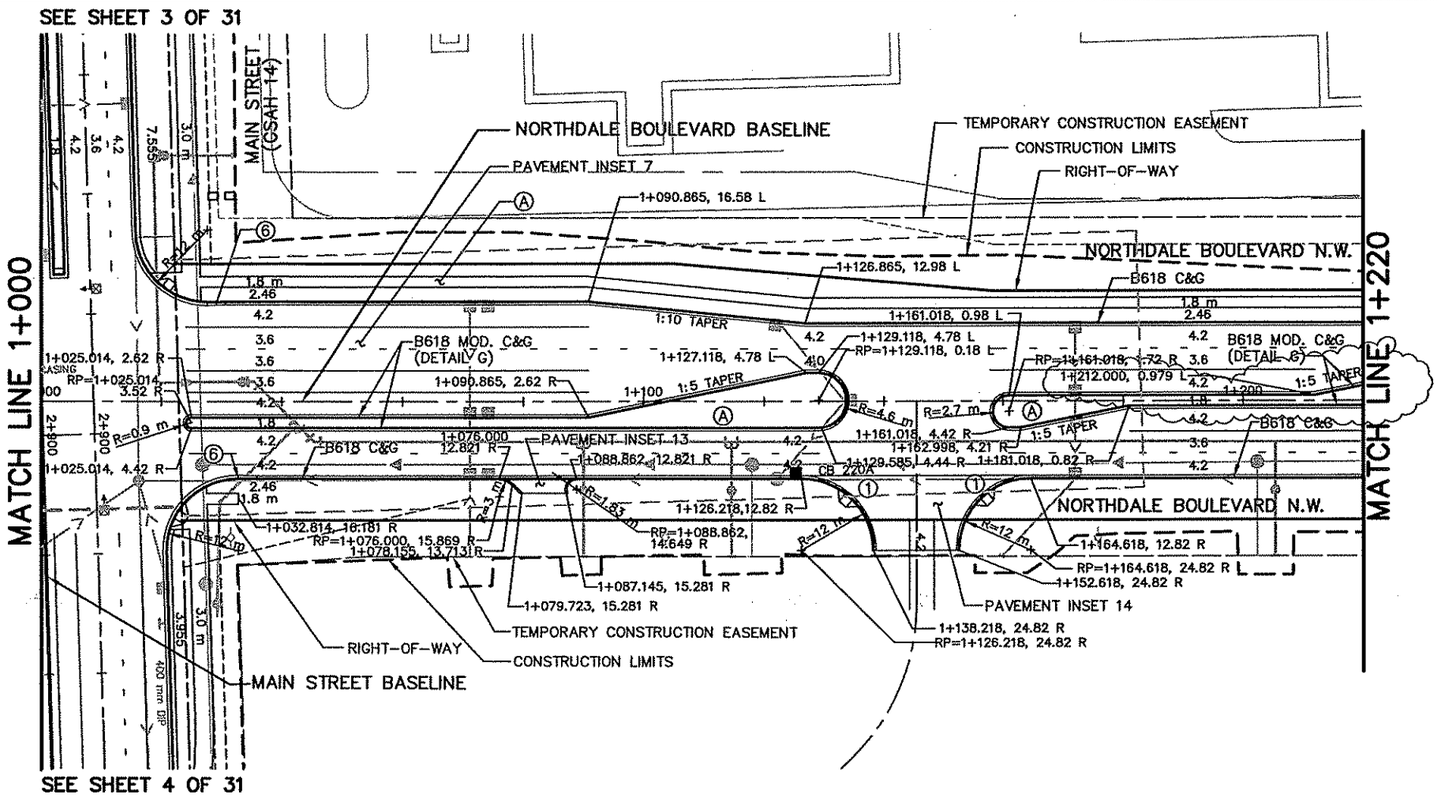
CITY PROJECT 98–20

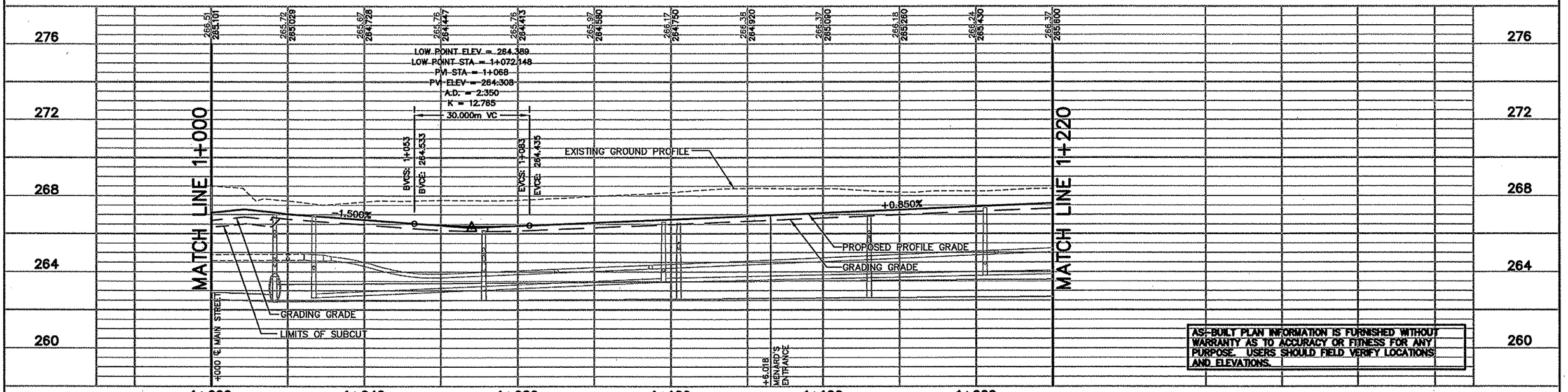
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 154 / 539

PLOT DATE: Sep 0 00 6:29pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SI\DALEPP01.dwg

F DRAWINGS
\PBOX
)2CLM-W
)2E-TXT
_STRIPE
)2-ALIW
)ALEPRF
)2-PUT
)8F
)2I
)2-EOOM
)2MHVEG
)2MHETO
)2-EUT





NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
- Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
- Ⓒ BITUMINOUS PATH (DETAIL A)
- Ⓓ MAINTENANCE STRIP (DETAIL C)
- ① CONST. CONC. PEDESTRIAN CURB RAMP
- ② DROP CURB
- ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- ④ CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- ⑤ CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- ⑥ 3.0 m C&G TRANSITION, B618 TO B424
- ⑦ 3.0 m C&G TRANSITION B624 TO B424
- ⑧ 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- ⑨ 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER REFERENCE FOR STD. PLATES
2	JJL	5/25/00	MOD.REQ.#32: ADDED COMMERCIAL D/W ENTRANCE
3	JJL	8/09/00	MOD.REQ.#56: REMOVED WALK 1+032.814–1+288.0, RT.
4	JJL	9/12/00	MOD.REQ.#84: ADDED ENTRANCE TO AMOCO SITE
5	PMJ	9/29/00	MOD. REQ. #89: REVISED MEDIAN, ADDED STA/OFFSET
6	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: DALEPP02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
PLANNED CONSTRUCTION
STATION 1+000.000 TO STATION 1+220.000

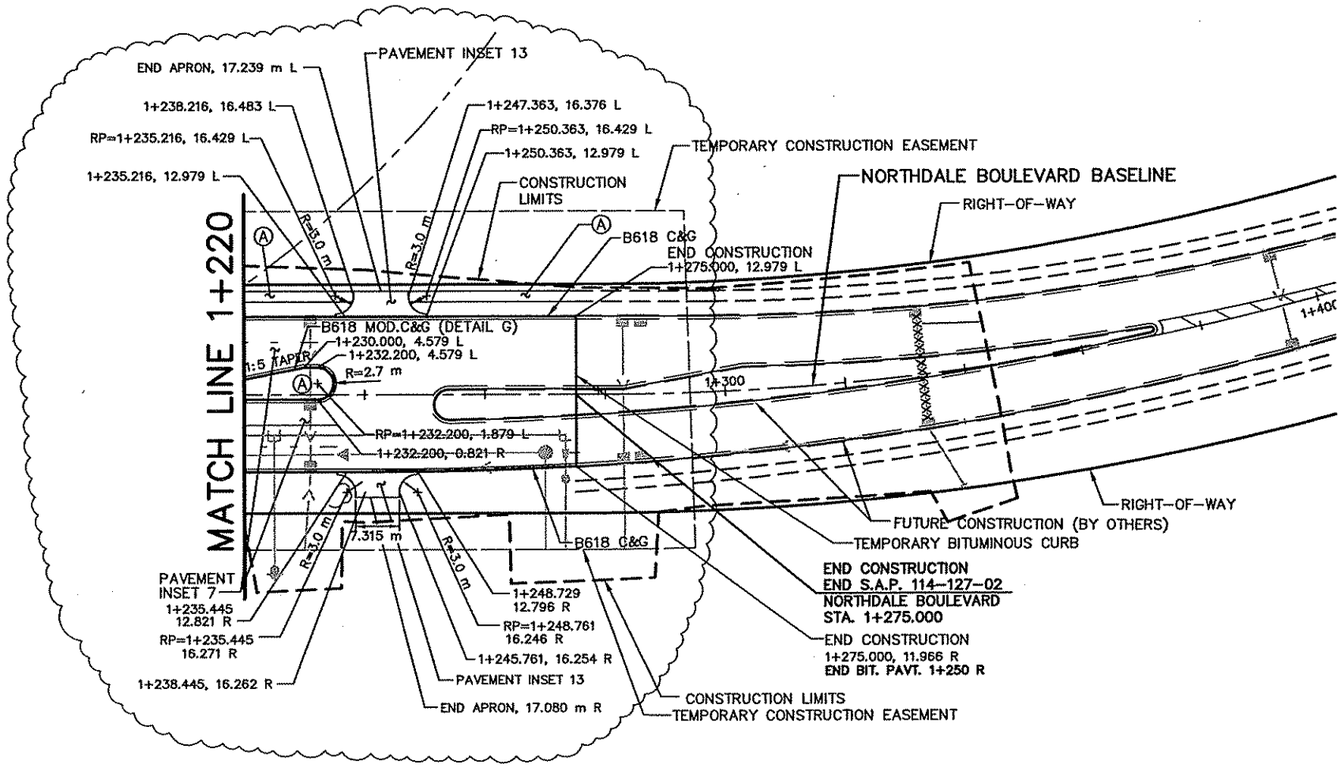
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 155 / 539

PLOT DATE: Sep .000 3:29pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S
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P DRAWINGS
12-ESUM
\PBOX
12CLM-W
12E-TXT
_STRIPE
12-ALIW
)ALEPPRE
12
12
12MHVEG
12MHETO
12-EUT



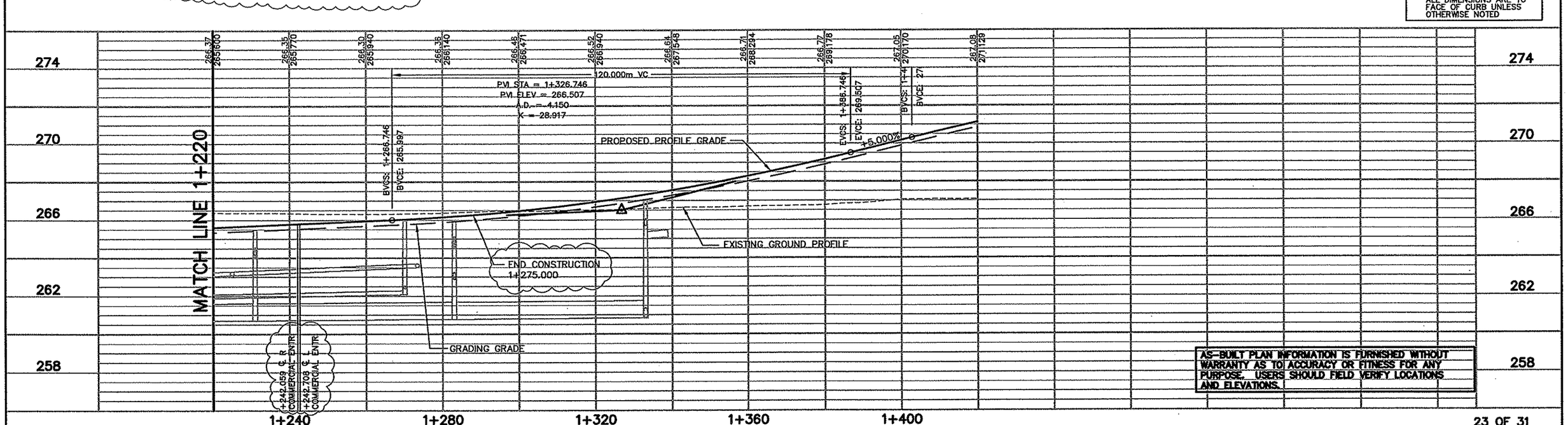
NORTH

5 0 10 20
HORIZONTAL SCALE
IN METERS

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

23 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			ADDED STA/OFFSETS FOR MEDIAN CONSTRUCTION 1+278
2	IKR	5/25/00	MOD.REQ.#32: ADDED COMMERCIAL D/W ENTRANCE
3	JJL	8/09/00	MOD.REQ.#36: REMOVED WALK 1+032.814-1+288.0, RT.
4	PMJ	9/29/00	MOD. REQ. #69: REVISED MEDIAN AND ADDED DRIVEWAY ENTRANCE, ADDED STA /OFFSET
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: DALEPP03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
PLANNED CONSTRUCTION
STATION 1+220.000 TO STATION 1+420.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 156 / 539

PLOT DATE: Oct 0_ ,00 6:12pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SI
...\GRING\Dalepp03.dwg

DRAWINGS
X
4-W
UT
IPE
RR
IW
UW
SUM
VEG
ETC
UT

SEE SHEET 21 OF 31

NORTHDALE BLVD. N.W.

REFER TO SHEET 154 FOR INTERSECTION CONSTRUCTION

RIGHT-OF-WAY

D/W APRONS BY OTHERS

CONSTRUCTION LIMITS

124th AVENUE NW

1+000

1+100

1+200

50 m RAD.

GAS 90 mm PE

1+117.485, 7.794 R

1+145.602, 7.794 R

1+148.196, 7.862 R

1+160.607, 8.506 R

1+163.199, 8.574 R

RELOCATE LIGHT POLE

RIGHT-OF-WAY

124th AVENUE BASELINE

BEGIN S.A.P. NO. 114-136-02
124th AVE. NW/CROOKED LAKE BOULEVARD
STA. 0+980.255

JONQUIL STREET

TRAIL EASEMENT

1+198.557, 7.456 R
1+193.988, 7.669 R
1+186.525, 8.359 R
1+182.071, 8.571 R

1+247.922, 7.457 R
1+251.739, 7.606 R
1+262.898, 8.473 R
1+266.775, 8.624 R

RELOCATE LIGHT POLE

IVYWOOD STREET

1+299.863, 8.094 R
1+298.125, 8.125 R
1+284.863, 8.593 R
1+283.124, 8.624 R

MATCH LINE 1+300

SEE SHEET 21 OF 31

5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
- Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
- Ⓒ BITUMINOUS PATH (DETAIL A)
- Ⓓ MAINTENANCE STRIP (DETAIL C)
- ① CONST. CONC. PEDESTRIAN CURB RAMP
- ② DROP CURB
- ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- ④ CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- ⑤ CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- ⑥ 3.0 m C&G TRANSITION, B618 TO B424
- ⑦ 3.0 m C&G TRANSITION B624 TO B424
- ⑧ 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- ⑨ 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

264.60 264.54 264.58 264.47 264.35 264.25 264.23 264.28 264.41 264.53 264.67 264.82 264.96 265.15 265.37 265.60

272
268
264
260

EXISTING GROUND PROFILE

EXISTING WATERMAIN

-0.033 LOW PT.

-13.991 ℄ JONQUIL ST.

-14.584 ℄ IVYWOOD ST.

MATCH LINE 1+300

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

1+020 1+060 1+000 1+140 1+180 1+220 1+260 1+300

24 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED 124th AVE. BEGIN STA., CHANGED S.A.P. No.
			CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	JJL	8/09/00	MOD.REQ.#58: REMOVED WALK 1+000.751-1+117.485, RT. REVISED WALK WIDTH FROM 1.8 TO 1.5 m
3	JJL	9/26/00	MOD.REQ.#61: RELOCATE LIGHT STANDARDS AT C.L.B.
4	PMJ	4/30/01	MOD. REQ. #86: ADDED CONC. WALK.
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: 124PP01
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

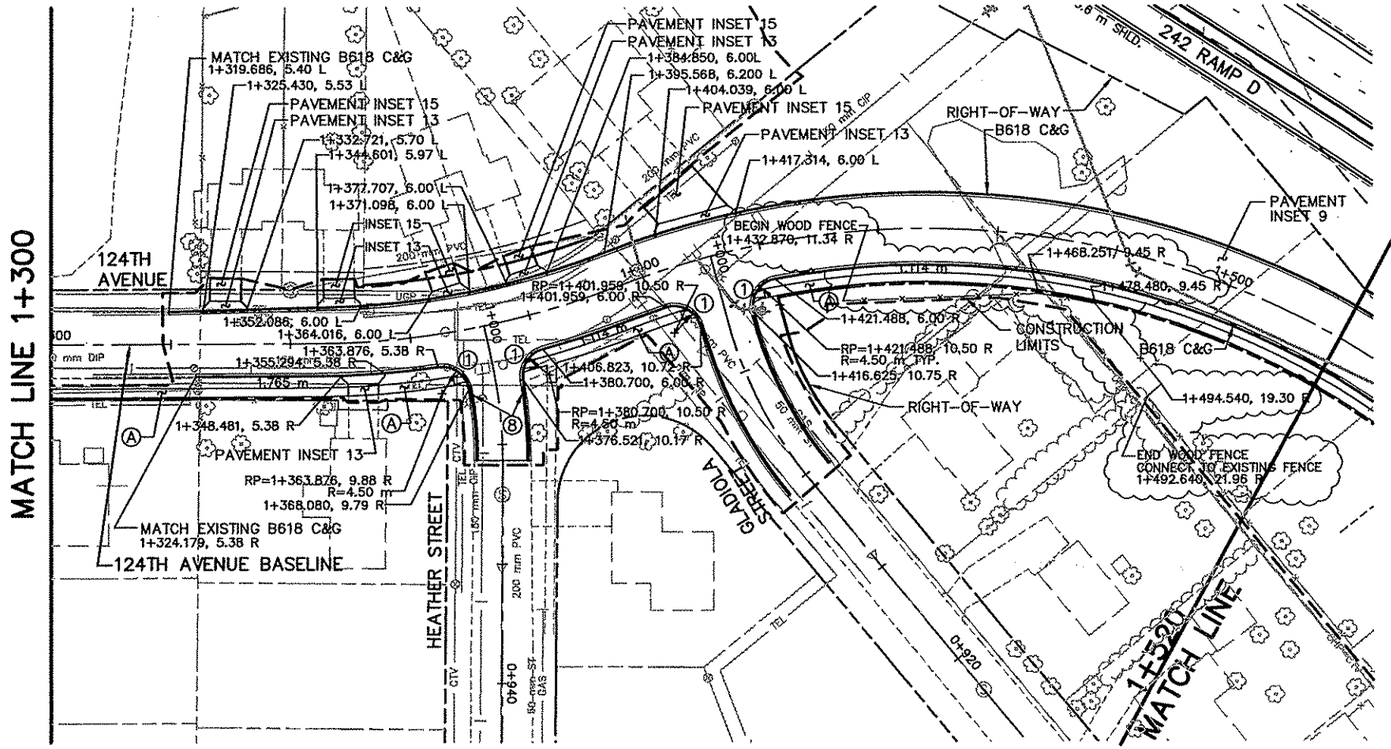
MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVENUE N.W.
PLANNED CONSTRUCTION
STATION 0+960.000 TO STATION 1+300.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 157 / 539

PLOT DATE: Apr 6, 2004 3:04pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...NGRING\124pp01.dwg

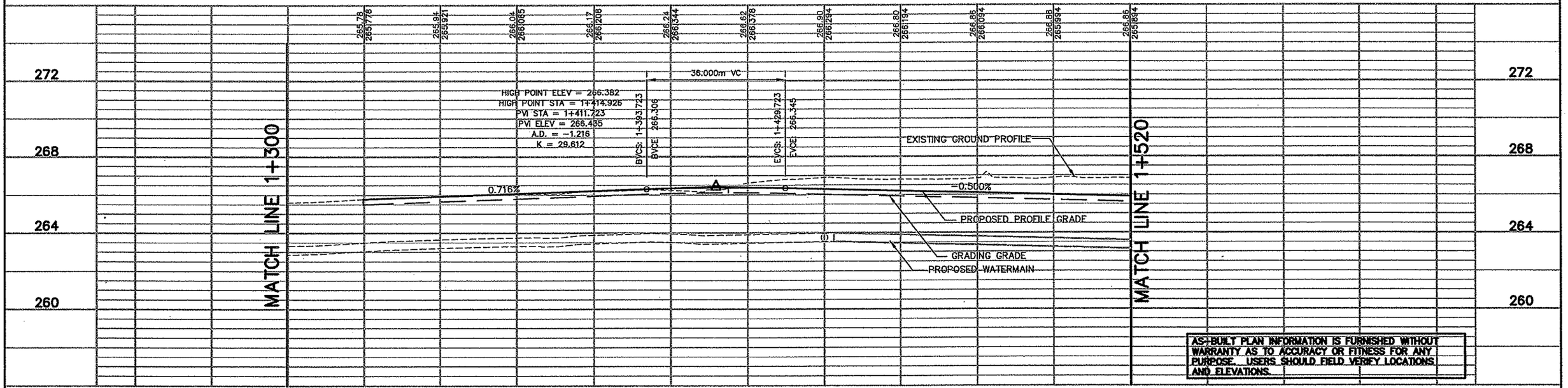


HORIZONTAL SCALE IN METERS
5 0 10 20

CONSTRUCTION NOTES:

- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
- Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
- Ⓒ BITUMINOUS PATH (DETAIL A)
- Ⓓ MAINTENANCE STRIP (DETAIL C)
- ① CONST. CONC. PEDESTRIAN CURB RAMP
- ② DROP CURB
- ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- ④ CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- ⑤ CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- ⑥ 3.0 m C&G TRANSITION, B618 TO B424
- ⑦ 3.0 m C&G TRANSITION B624 TO B424
- ⑧ 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- ⑨ 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

25 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			MOVED R/W LABEL & 1+520 MATCHLINE
2	JJL	8/09/00	MOD.REQ.#56: REVISED WALK WIDTH FROM 1.8 TO 1.5 m
3	JJL	8/15/00	MOD. REQ. #58: MOD. CONSTRUCTION LIMITS
4	JJL	6/19/01	MOD. REQ. #97: ADDED FENCE ALONG 124TH AVE
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK | DWG. NAME: 124PP02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP — A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./CROOKED LK. BLVD.
PLANNED CONSTRUCTION
STATION 1+300.000 TO STATION 1+520.000

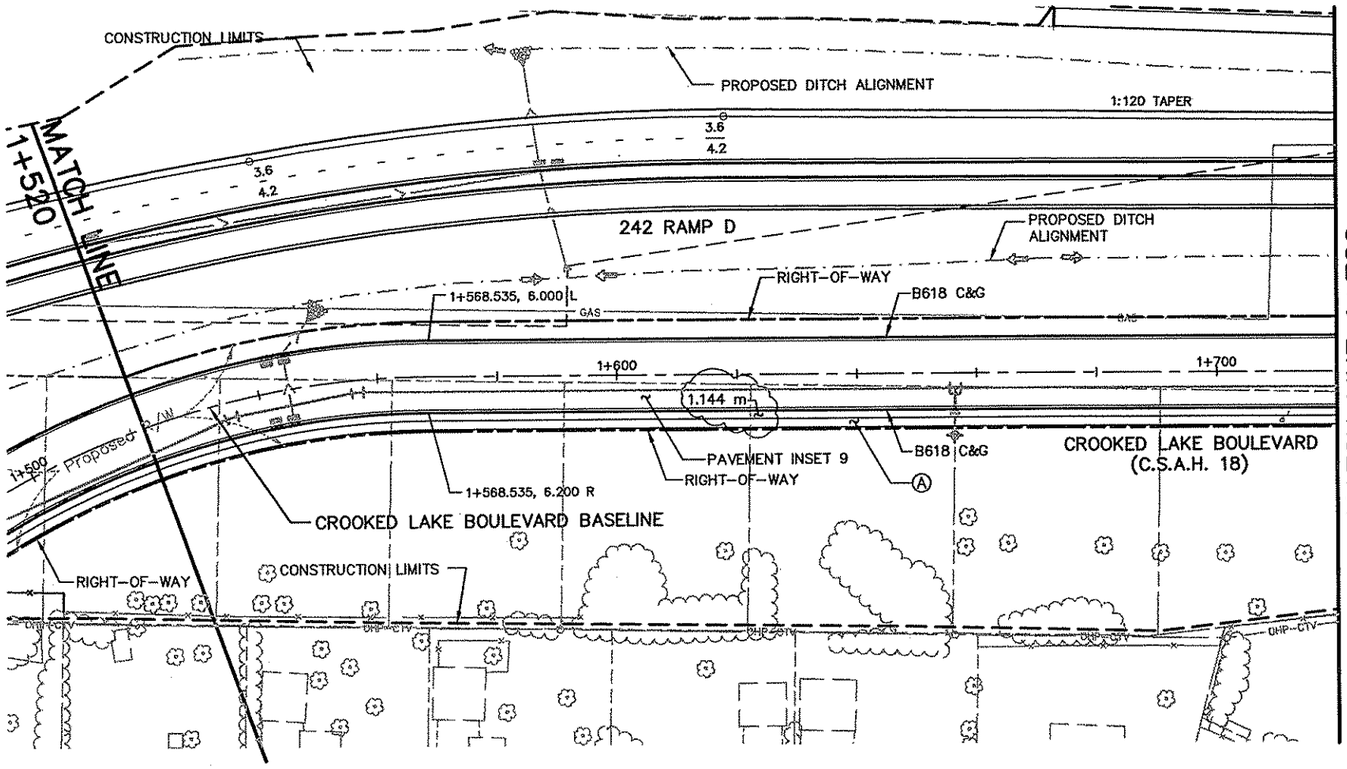
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 158 / 539

PLOT DATE: Apr ..004 3:07pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN..NGRING\124pp02.dwg

P DRAWINGS
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A-W
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PLN
CLM
TXT
RF
UT
IW
LW
SU
VEG
ETC
UT



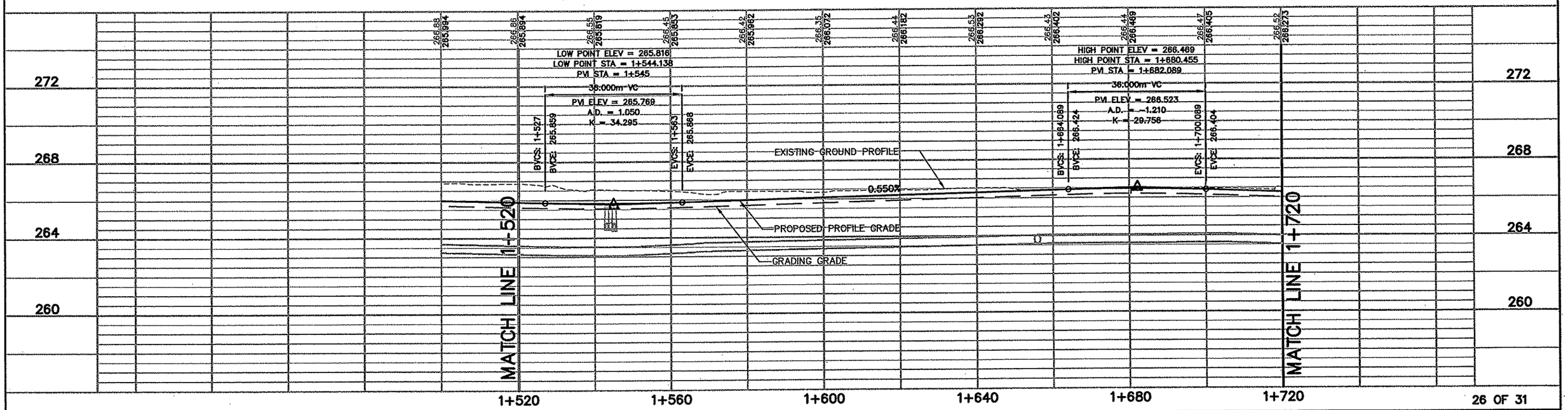
HORIZONTAL SCALE IN METERS
5 0 10 20

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			LABELED R/W
2	JJL	8/09/00	MOD.REQ.#56: REVISED WALK WIDTH FROM 1.8 TO 1.5 m
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: 124PP03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BLVD. N.W. (C.S.A.H. 18)
PLANNED CONSTRUCTION
STATION 1+520.000 TO STATION 1+720.000

CITY PROJECT 98-20

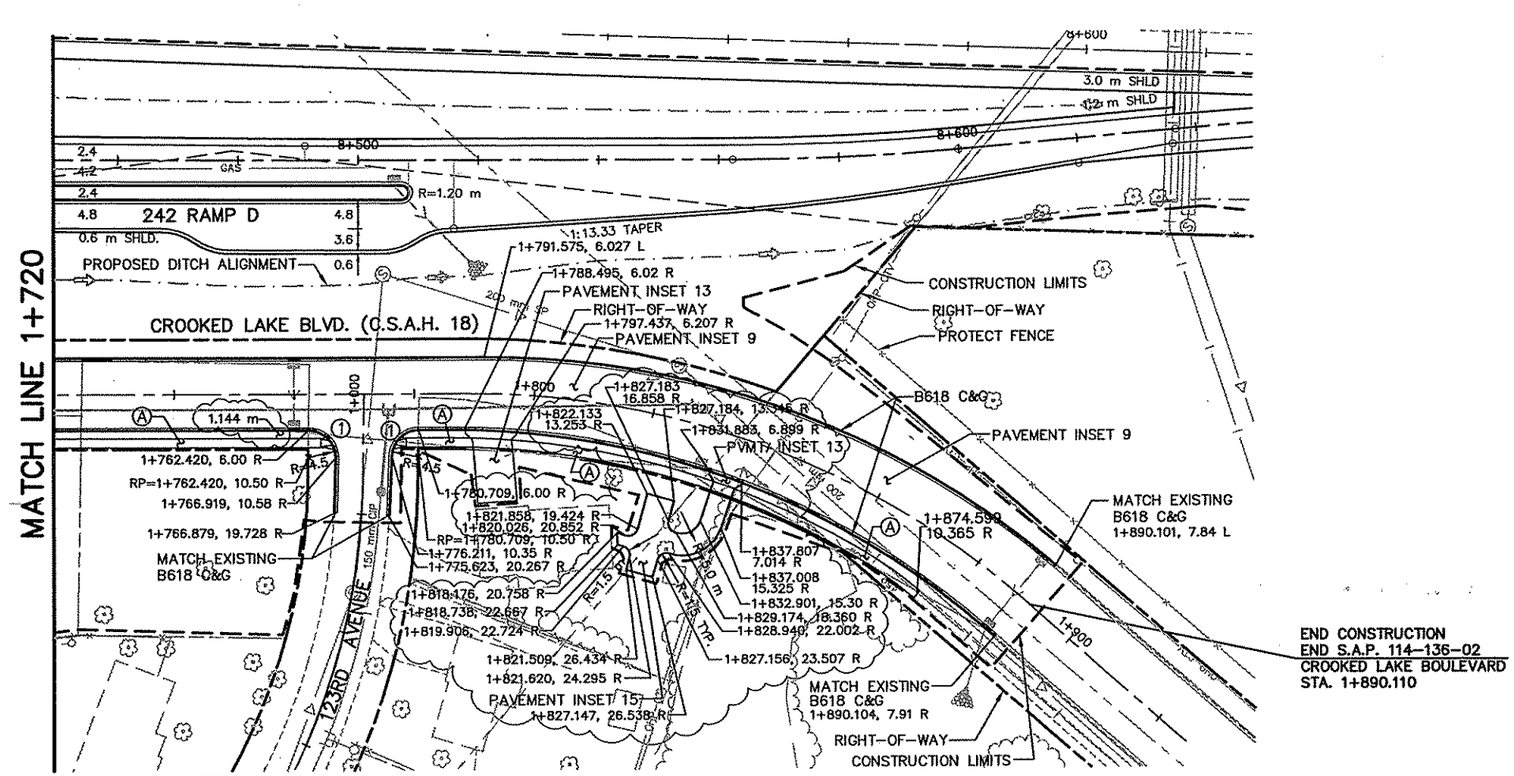
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 159 / 539

PLOT DATE: Apr 6 J04 3:08pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...\GRING\124pp03.dwg

REF DRAWINGS

I2E-ALI
\PBOX
I2CLM-W
I2E-PLN
I2E-TXT
I2E-CLM
I2E_DRN
24
I2
I2PLTW
I2-ALIW
I2-ESUM
I2MHVEG
I2MHETO
I2-EUT

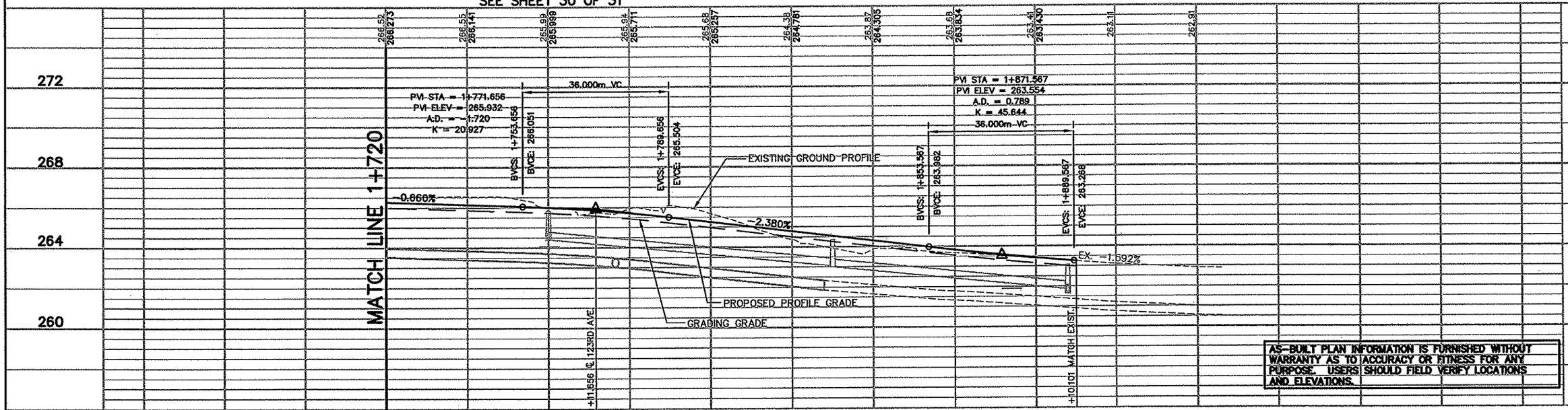


5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
- Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
- Ⓒ BITUMINOUS PATH (DETAIL A)
- Ⓓ MAINTENANCE STRIP (DETAIL C)
- ① CONST. CONC. PEDESTRIAN CURB RAMP
- ② DROP CURB
- ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- ④ CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- ⑤ CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- ⑥ 1.0 m C&G TRANSITION, B618 TO B424
- ⑦ 1.0 m C&G TRANSITION B624 TO B424
- ⑧ 1.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- ⑨ 1.0 m C&G TRANSITION B624 TO B424

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

27 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			REVISED SAP No., ADDED RAMP D PATROL PAD
2	JJL	8/09/00	MOD.REQ.#56: REVISED WALK WIDTH FROM 1.8 TO 1.5 m
3	JJL	9/08/00	MOD. REQ. #65: MODIFIED DRIVEWAY DESIGNS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK | DWG. NAME: 124PP04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BLVD. N.W. (C.S.A.H. 18)
PLANNED CONSTRUCTION
STATION 1+720.000 TO STATION 1+920.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

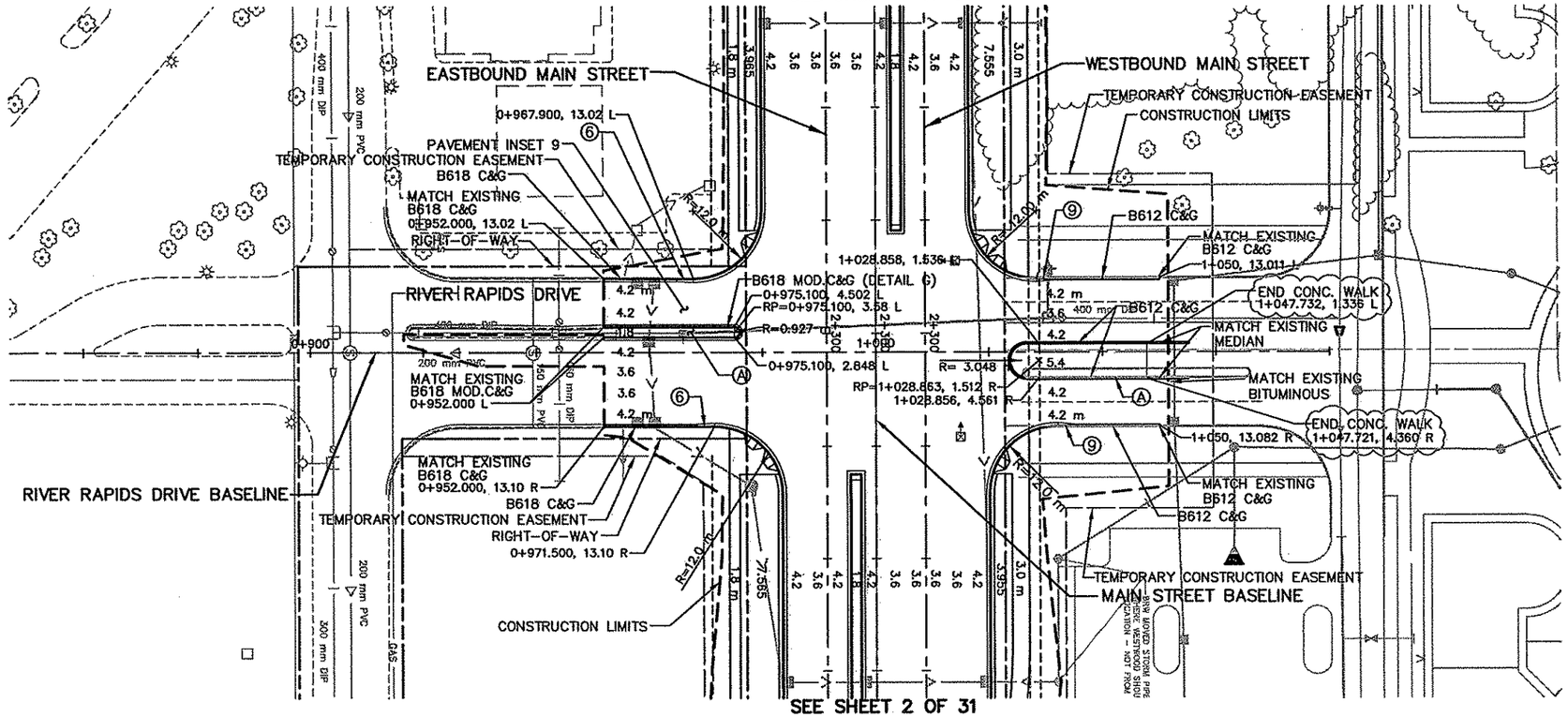
SHEET NO. 160 / 539

PLOT DATE: Apr 6 ...004 3:08pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...NGRING\124pp04.dwg

DRAWINGS

PBOX
SE-PRF
86UTIL
86SITE
2CLM-W
2E-[illegible]T
2-
2R
2-ESUM
2-ALI
2MHVEG
2MHETO
2-EUT

SEE SHEET 1 OF 31



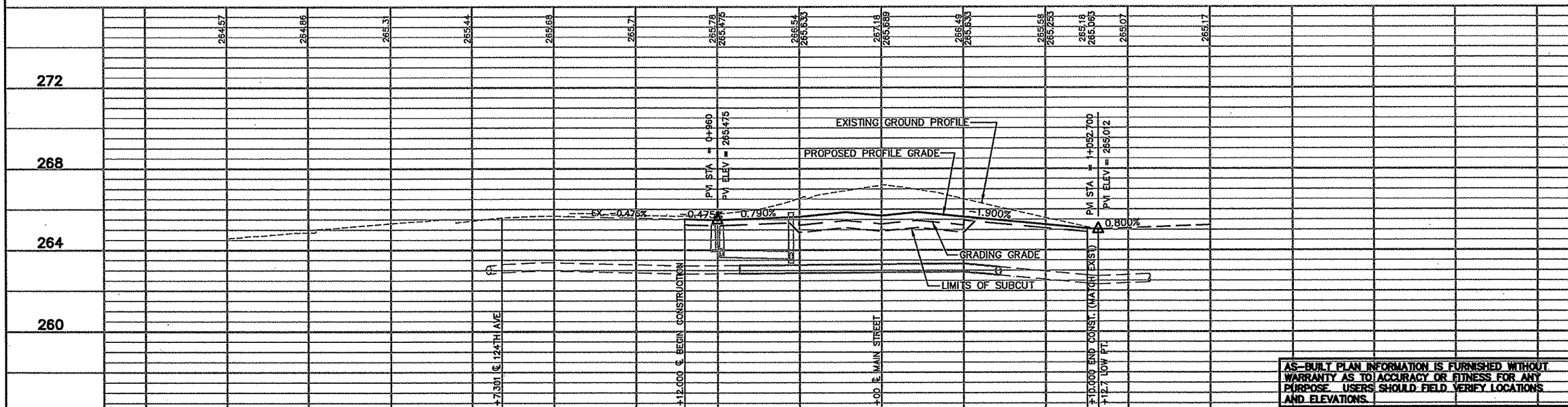
SEE SHEET 2 OF 31

5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C).
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

28 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			LABELED R/W & T.C.E.
2	JJL	7/31/00	MOD. REQ. #52: MOD. CONC. WALK IN MEDIAN
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK | DWG. NAME: ROSEPP01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVER RAPIDS DRIVE
PLANNED CONSTRUCTION
STATION 0+907.018 TO STATION 1+050.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

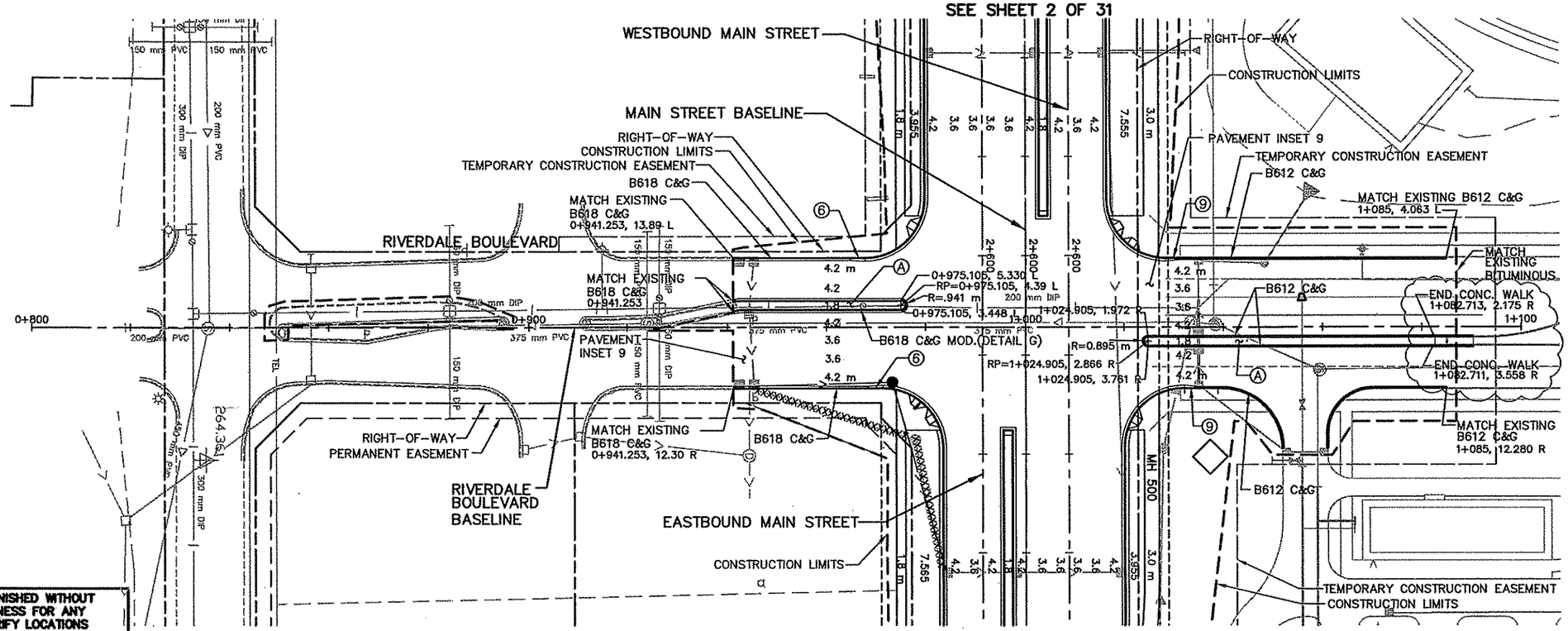
SHEET NO. 161 / 539

PLOT DATE: Jul 28, 1:31pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SH1

DRAWINGS

PBOX
PP-PRF
36UTIL
36SITE
2E-TXT
2CLM-W
2-
2P
2-
2-ALI
2MHVEG
2MHETO
2-EUT

SEE SHEET 2 OF 31



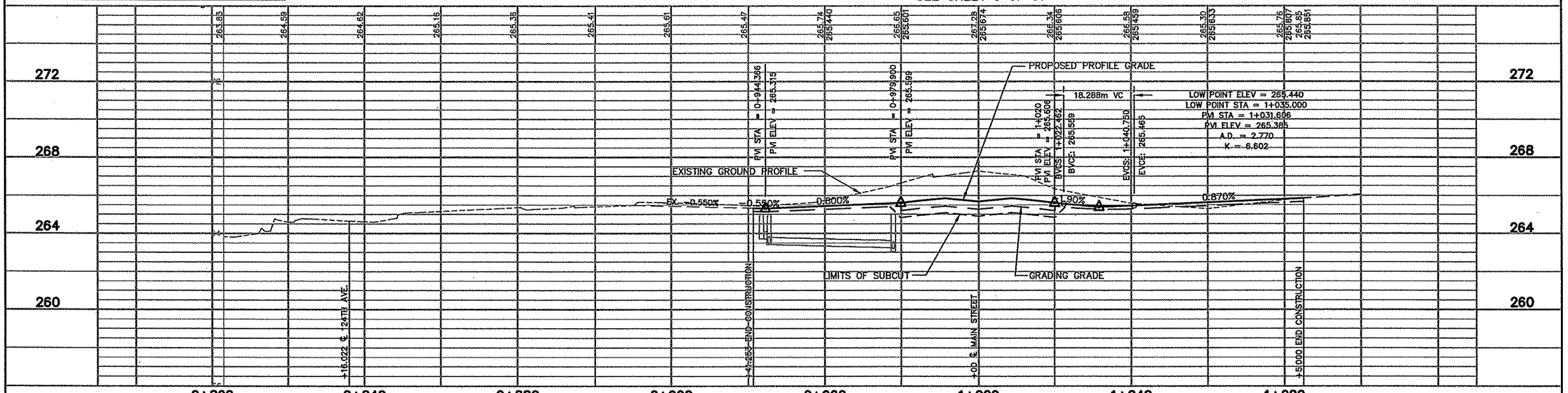
CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SEE SHEET 3 OF 31



29 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	JJL	7/31/00	MOD. REQ. #52: MOD. CONC. WALK IN MEDIAN
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK | DWG. NAME: POPPPP01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVERDALE BOULEVARD
PLANNED CONSTRUCTION
STATION 0+835.993 TO STATION 1+085.000

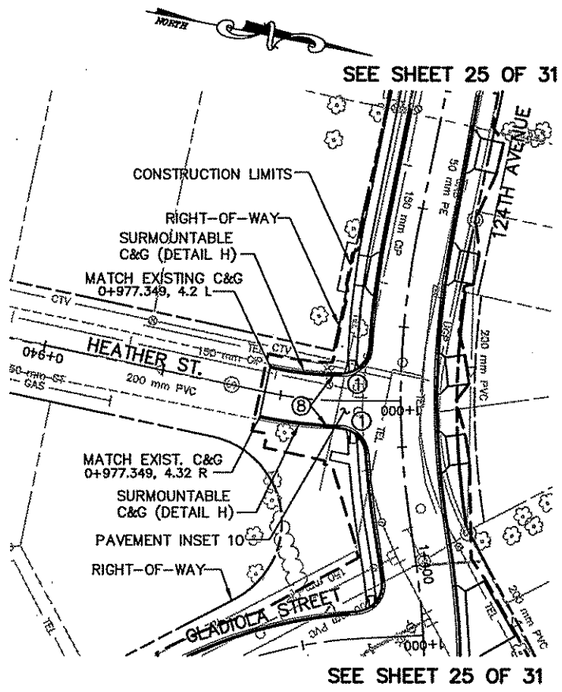
CITY PROJECT 98-20

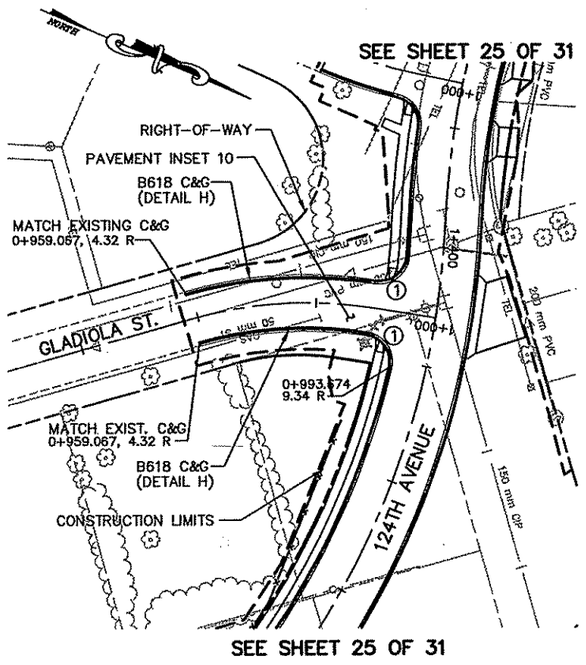
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

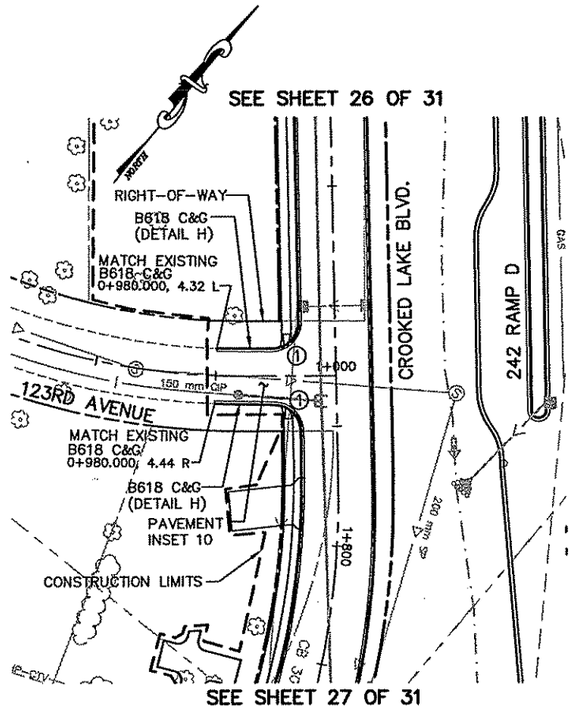
SHEET NO. 162 / 539

PLOT DATE: Jul 2, JO 1:30pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S.
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+ DRAWINGS
12E_DRN
\PBOX
12CLM-W
12E-PLN
12E-CLM
12E-TXT
12-PUT
12PLNW
12-ESUM
12-ALI
12MHVEG
12MHETO
12-EUT





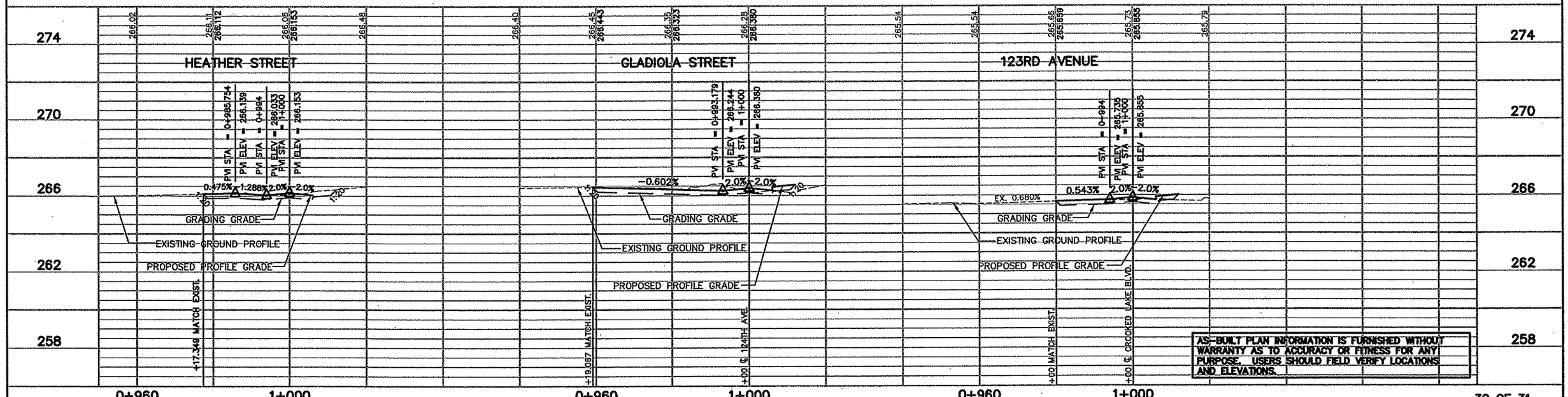


5 0 10 20
HORIZONTAL SCALE IN METERS

CONSTRUCTION NOTES:

- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
- Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
- Ⓒ BITUMINOUS PATH (DETAIL A)
- Ⓓ MAINTENANCE STRIP (DETAIL C)
- ① CONST. CONC. PEDESTRIAN CURB RAMP
- ② DROP CURB
- ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- ④ CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- ⑤ CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- ⑥ 3.0 m C&G TRANSITION, B618 TO B424
- ⑦ 3.0 m C&G TRANSITION B624 TO B424
- ⑧ 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- ⑨ 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

30 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
			ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK/JJL
CHKED. BY: PBD
DWG. NAME: ROADPP01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HEATHER ST, GLADIOLA ST, & 123RD AVE.
PLANNED CONSTRUCTION

CITY PROJECT 98-20

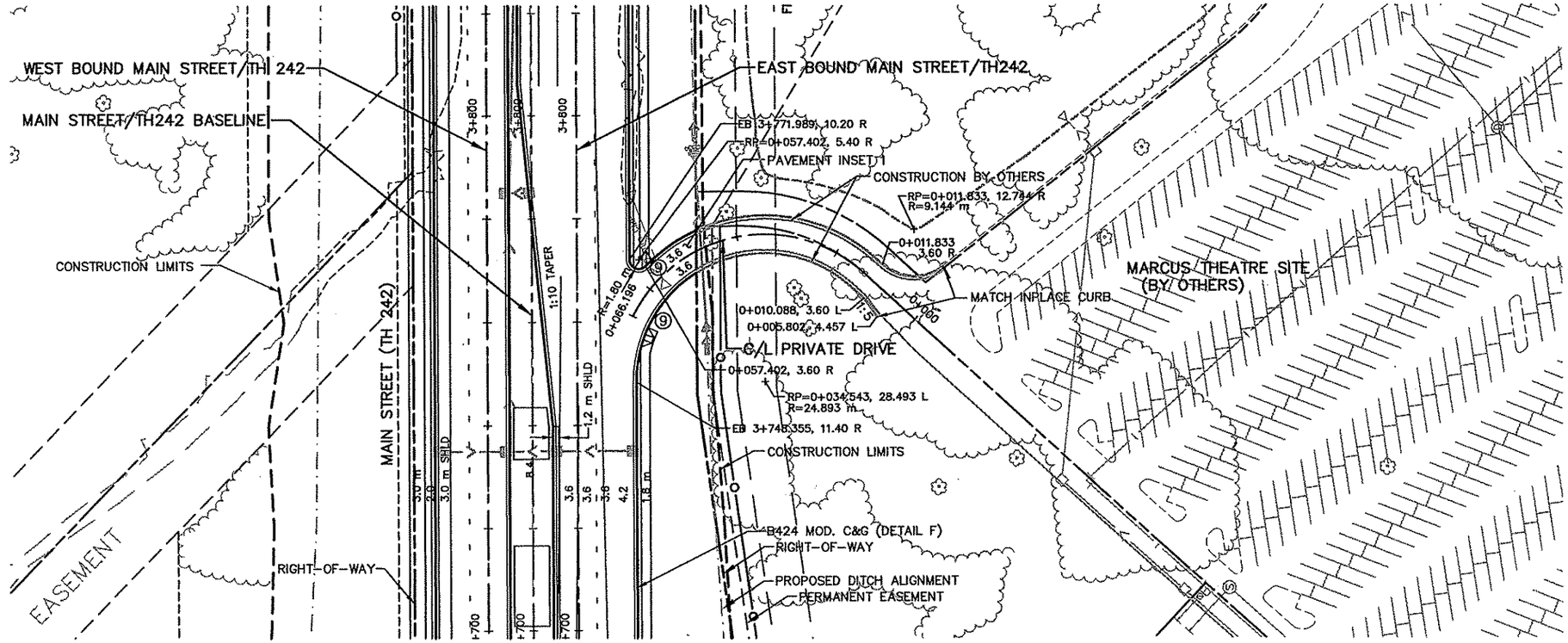
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 163 / 539

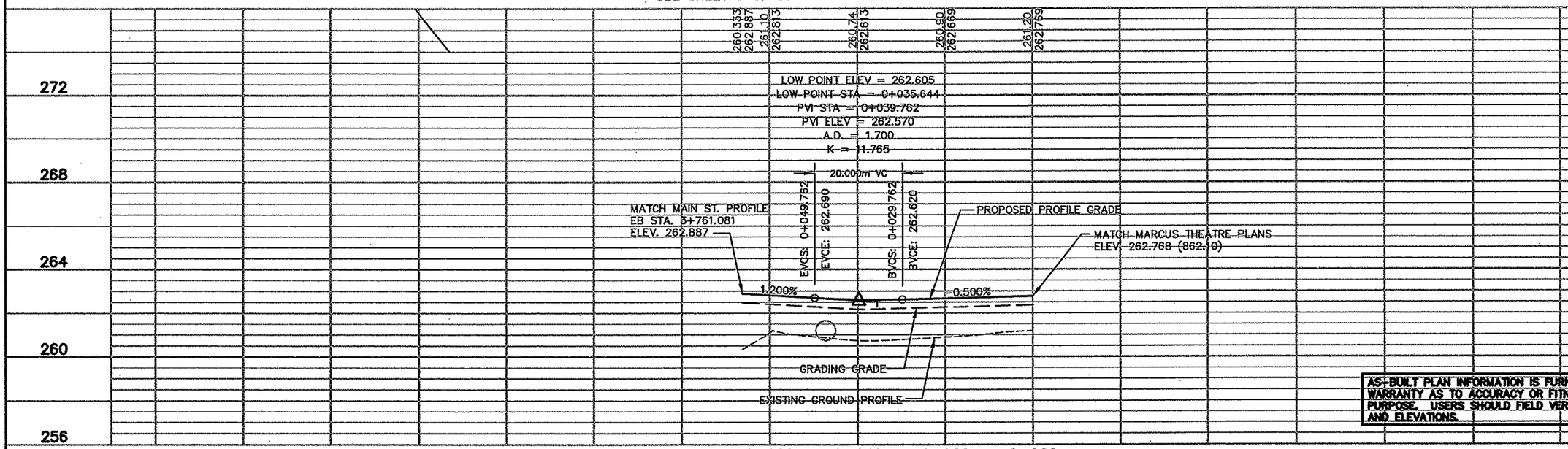
PLOT DATE: Jan 0_ 00 5:32pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SH_ _GRING\ROADppl01.dwg

P DRAWINGS
RIVE1
263SITE
APBOX
42E_DRN
42E-TXT
42E-PLN
42F M
42 I
42 M
42-EUT
42MHVEG
42MHETO

SEE SHEET 7 OF 31



SEE SHEET 6 OF 31



HORIZONTAL SCALE IN METERS
5 0 10 20

CONSTRUCTION NOTES:

- (A) CONCRETE WALK (DETAIL B & INSET 11)
- (B) COLORED CONCRETE WALK (DETAIL B & INSET 12)
- (C) BITUMINOUS PATH (DETAIL A)
- (D) MAINTENANCE STRIP (DETAIL C)
- (1) CONST. CONC. PEDESTRIAN CURB RAMP
- (2) DROP CURB
- (3) CONST. CONC. APPROACH NOSE, STD. PLATE M7113
- (4) CONST. CONC. ENTRANCE NOSE, STD. PLATE M7107
- (5) CONST. CONCRETE MEDIAN NOSE, STD. PLATE M7109
- (6) 3.0 m C&G TRANSITION, B618 TO B424
- (7) 3.0 m C&G TRANSITION B624 TO B424
- (8) 3.0 m C&G TRANSITION B618 TO SURMOUNTABLE (DETAIL H)
- (9) 3.0 m C&G TRANSITION B424 TO B612

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

31 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
			REMOVED LETTER DESIGNATION FOR STD. PLATES
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242EPP22
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
PRIVATE DRIVE/FREE RT. TURN
PLANNED CONSTRUCTION
STATION 0+000.000 TO STATION 0+066.196

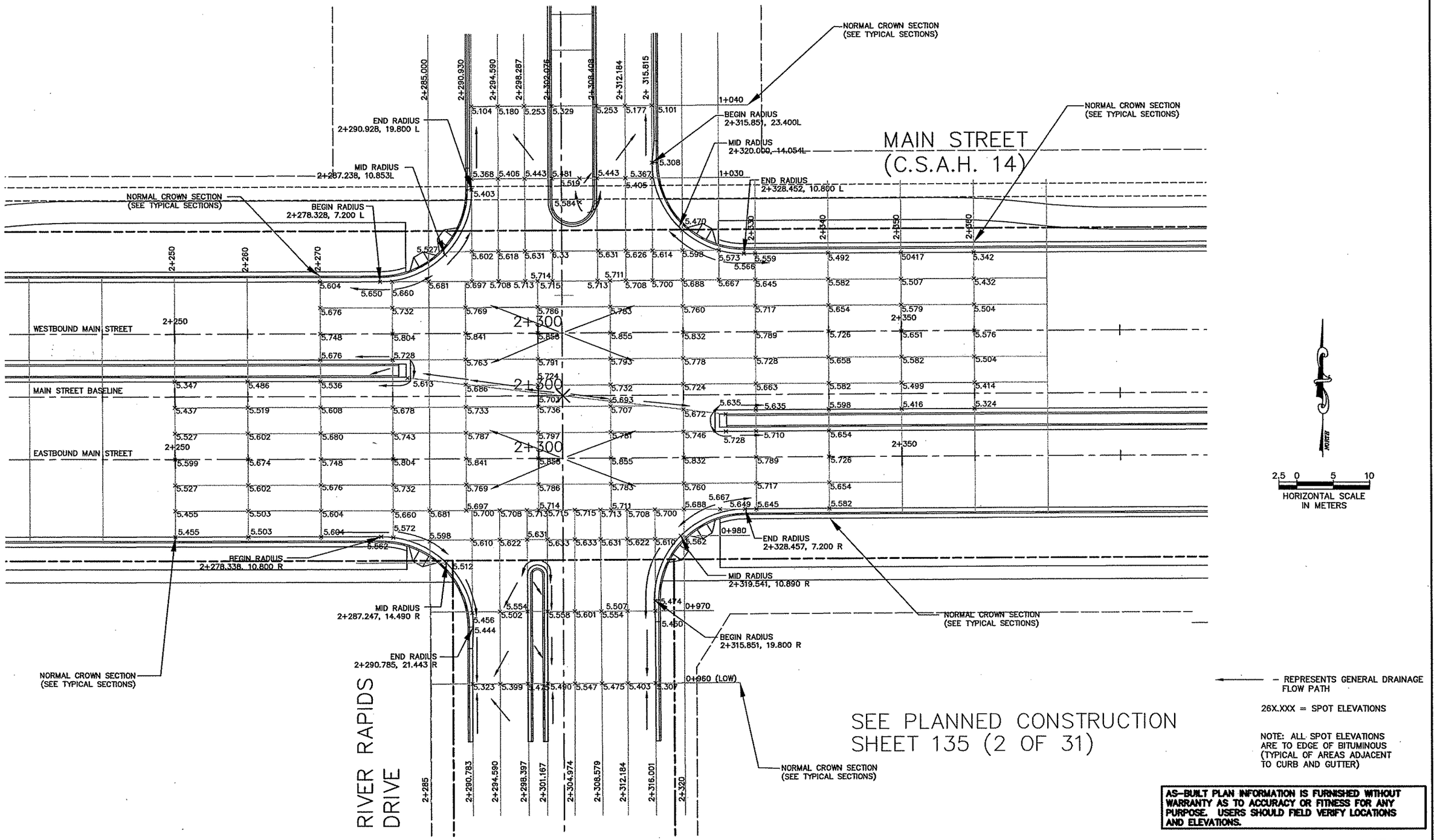
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 164 / 539

PLOT DATE: Jan 0... ...00 5:34pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH... ...2epp22.dwg

F DRAWINGS
\PBOX
\2PLNW
\2-ALIW
\2-ESUM
PLOT: Apr 04, 2004 3:21pm - DISK FILE NAME: (15.06) R:\33889\33889028\33...\PLAN_SHT\ENGRING\242int02.dwg



SEE PLANNED CONSTRUCTION SHEET 135 (2 OF 31)

← – REPRESENTS GENERAL DRAINAGE FLOW PATH

26X.XXX = SPOT ELEVATIONS

NOTE: ALL SPOT ELEVATIONS ARE TO EDGE OF BITUMINOUS (TYPICAL OF AREAS ADJACENT TO CURB AND GUTTER)

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ/RDH | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242INT02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
INTERSECTION DETAIL
MAIN STREET AND RIVER RAPIDS DRIVE

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 165 / 539

F DRAWINGS
:2PLNW
:2-ALIW
:2-ESUM
:2MHETO

MAIN STREET (C.S.A.H. 14)

NORMAL CROWN SECTION (SEE TYPICAL SECTIONS)

END RADIUS 2+601.081, 19.800 L

BEGIN RADIUS 2+588.481, 7.200 L

MID RADIUS 2+597.391, 10.890 L

1+035(LOW)

NORMAL CROWN SECTION (SEE TYPICAL SECTIONS)

BEGIN RADIUS 2+626.054, 23.400 L

MID RADIUS 2+629.745, 14.490 L

1+030

END RADIUS 2+638.654, 10.800 L

NORMAL CROWN SECTION (SEE TYPICAL SECTIONS)

2+560 2+570 2+580 2+590 2+640 2+650 2+660 2+670

WESTBOUND MAIN STREET

MAIN STREET BASELINE

EASTBOUND MAIN STREET

2+600

2+600

2+600

100

RIVERDALE VILLAGE BOULEVARD

NORMAL CROWN SECTION (SEE TYPICAL SECTIONS)

BEGIN RADIUS 2+588.467, 10.800 R

MID RADIUS 2+597.376, 14.490 R

END RADIUS 2+601.067, 23.400 R

END RADIUS 2+638.654, 7.200 R

NORMAL CROWN SECTION (SEE TYPICAL SECTIONS)

MID RADIUS 2+629.745, 10.890 R

0+970

BEGIN RADIUS 2+626.054, 19.800 R

0+960

0+950

0+944.366(LOW)

NORMAL CROWN SECTION (SEE TYPICAL SECTIONS)

SEE PLANNED CONSTRUCTION SHEET 136 (3 OF 31)

RADIUS

2,5 0 5 10
HORIZONTAL SCALE IN METERS

← REPRESENTS GENERAL DRAINAGE FLOW PATH

26X.XXX = SPOT ELEVATIONS

NOTE: ALL SPOT ELEVATIONS ARE TO EDGE OF BITUMINOUS (TYPICAL OF AREAS ADJACENT TO CURB AND GUTTER)

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ/RDH | DESIGN BY: JJL
CHKED. BY: KPK/PBD | DWG. NAME: 242INT03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
INTERSECTION DETAIL
MAIN STREET AND RIVERDALE VILLAGE BOULEVARD

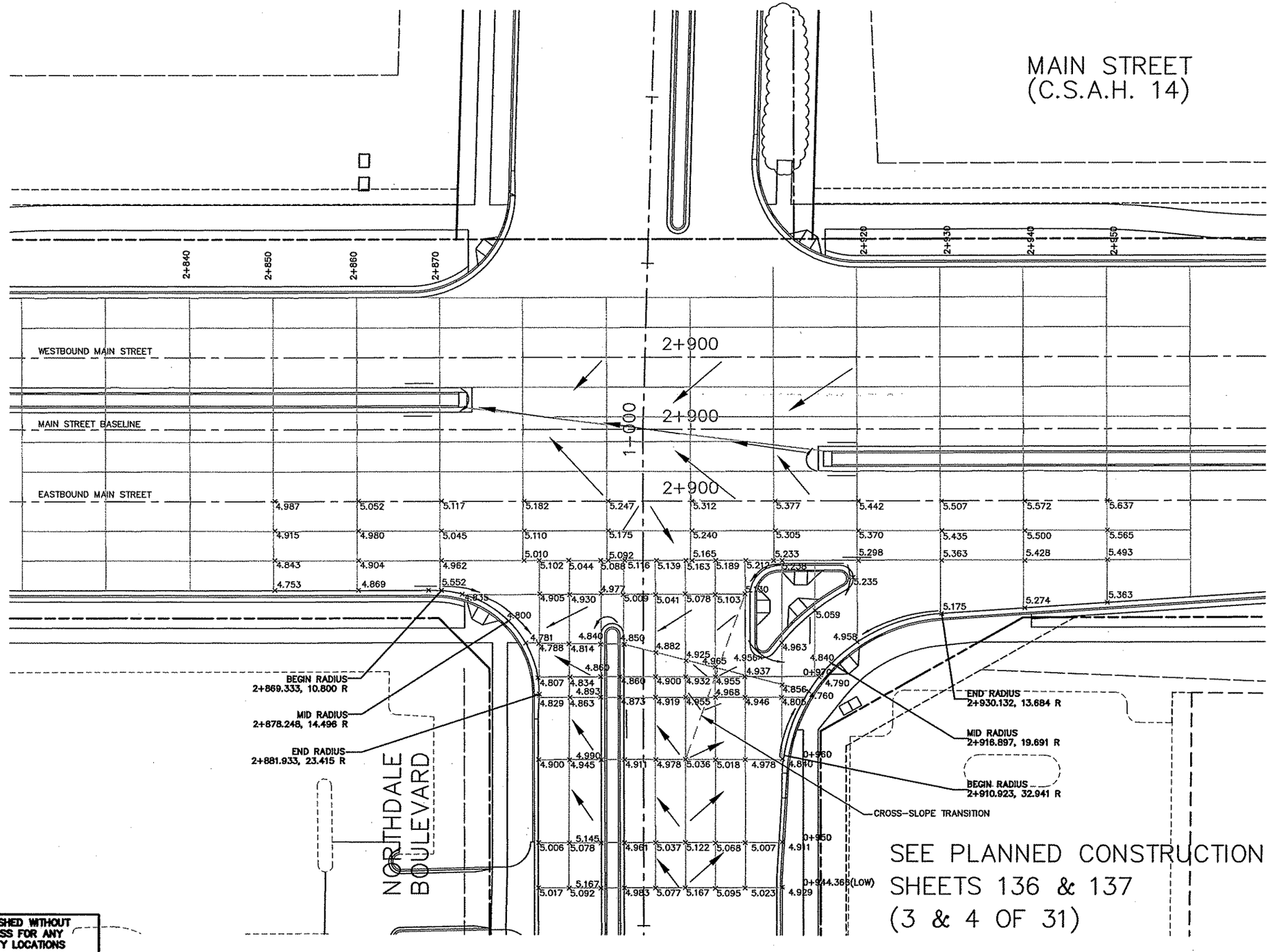
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 166 / 539

PLOT DATE: 04, 2004 3:21pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\SHT\ENGRING\242int03.dwg

PBOX
2-ALIW
2PLNW
2-ESUM
2MHETO



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3 OF 8

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	8/09/00	MOD.REQ.#56: REM. WALK NDALE 1+032.814-1+228.0, RT
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JRJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242INT04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
INTERSECTION DETAIL
MAIN STREET AND NORTHDALE BOULEVARD

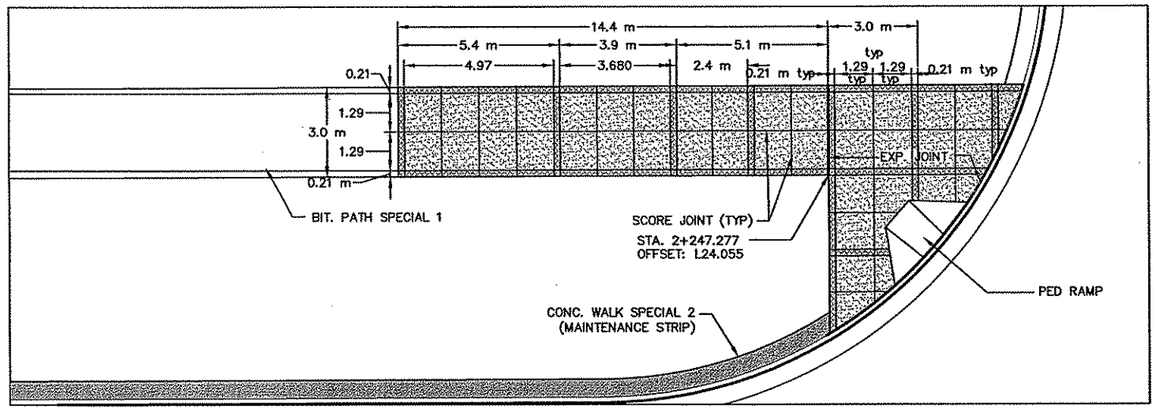
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

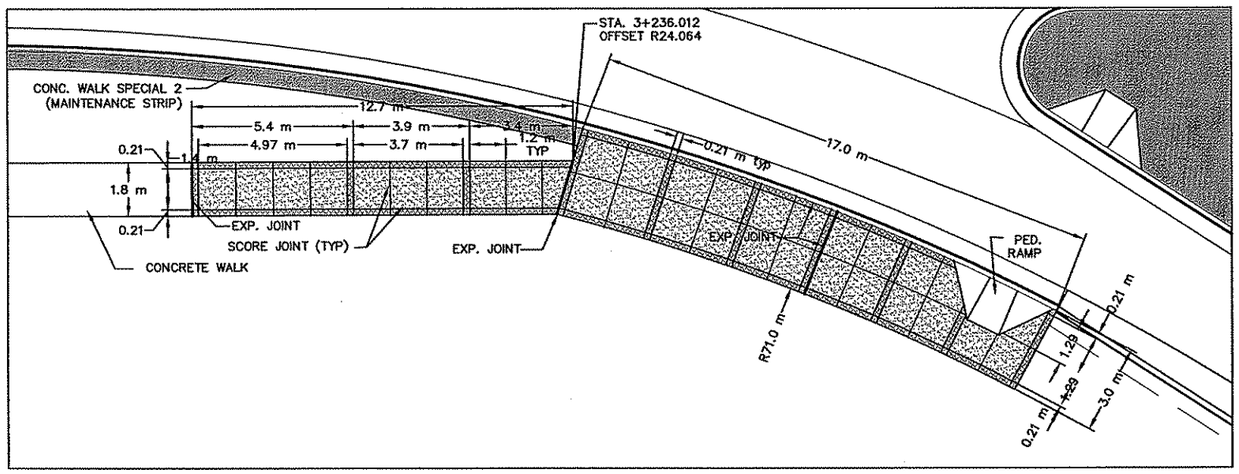
SHEET NO. 167 / 539

PLOT DATE: Apr 04, 2004 .m DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\242int04.dwg

F DRAWINGS
PBOX
2E-PLN
IGBASE
V-HTCH
2W-MLS
2W
2
2
PLOT DATE: Aug 10, 2004 8:34am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\PLANNING\Misc\Plazas\RAMPS-REV1.dwg



RAMP C & MAIN STREET-- NORTH PLAZA PAVING PLAN



RAMP D & MAIN STREET-- SOUTH PLAZA PAVING PLAN

LEGEND

100 mm CONCRETE WALK
SPECIAL 1 TYPE "A"

100 mm CONCRETE WALK
SPECIAL 1 TYPE "B"

100 mm CONCRETE WALK
SPECIAL 2
(MAINTENANCE STRIP)

NOTE: SPACE SCORE JOINTS EQUALLY BETWEEN COLORED BANDING

NORTH

1 0 2 4
HORIZONTAL SCALE
IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TH	07/14/00	MOD. 47A - SCORE JOINT DIMENSIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: HMH | DESIGN BY: TPH
CHKED. BY: KPK | DWG. NAME: RAMPS.dwg
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

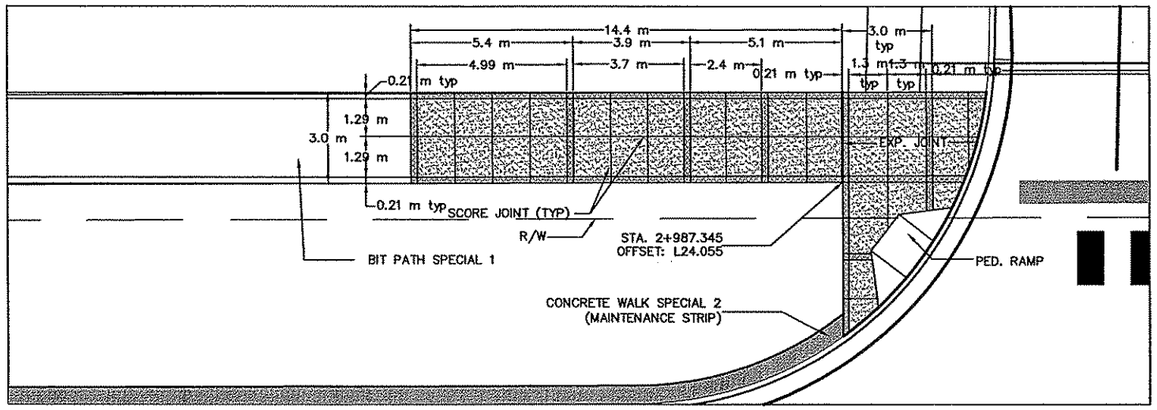
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLAZA PAVING DETAIL PLAN
HWY. 10 RAMPS C & D & MAIN STREET

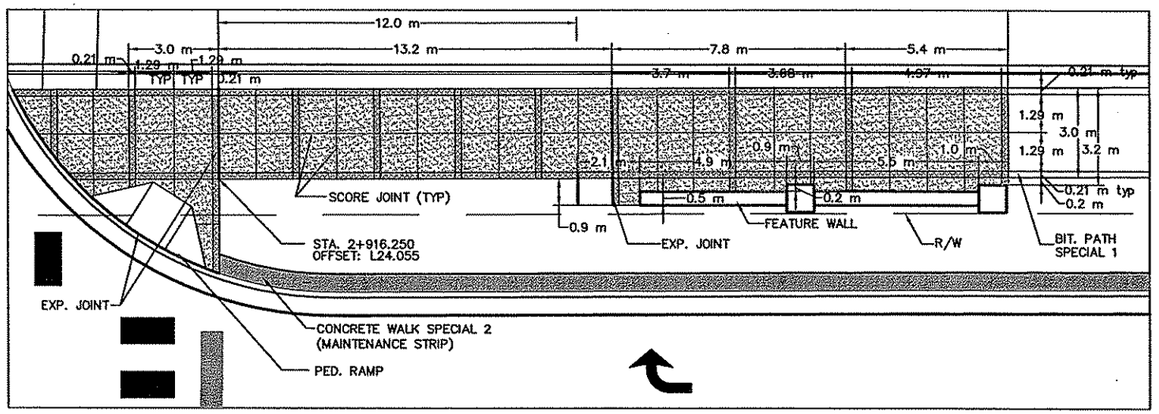
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

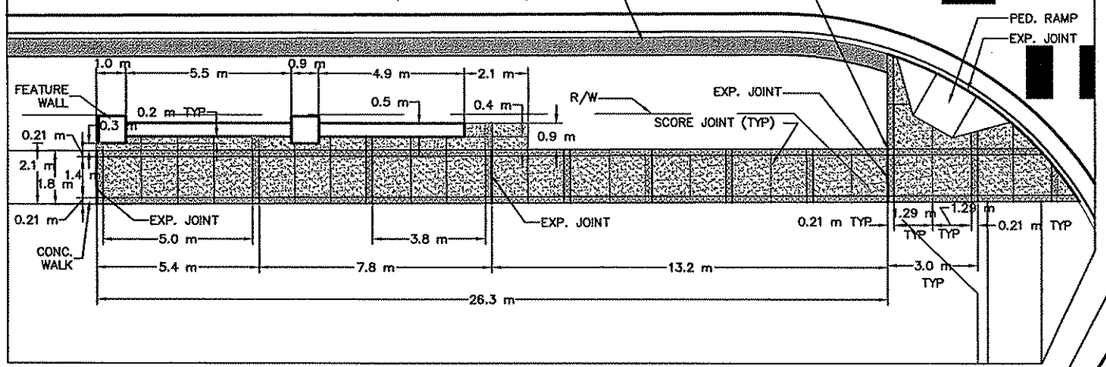
SHEET NO. 168 / 539



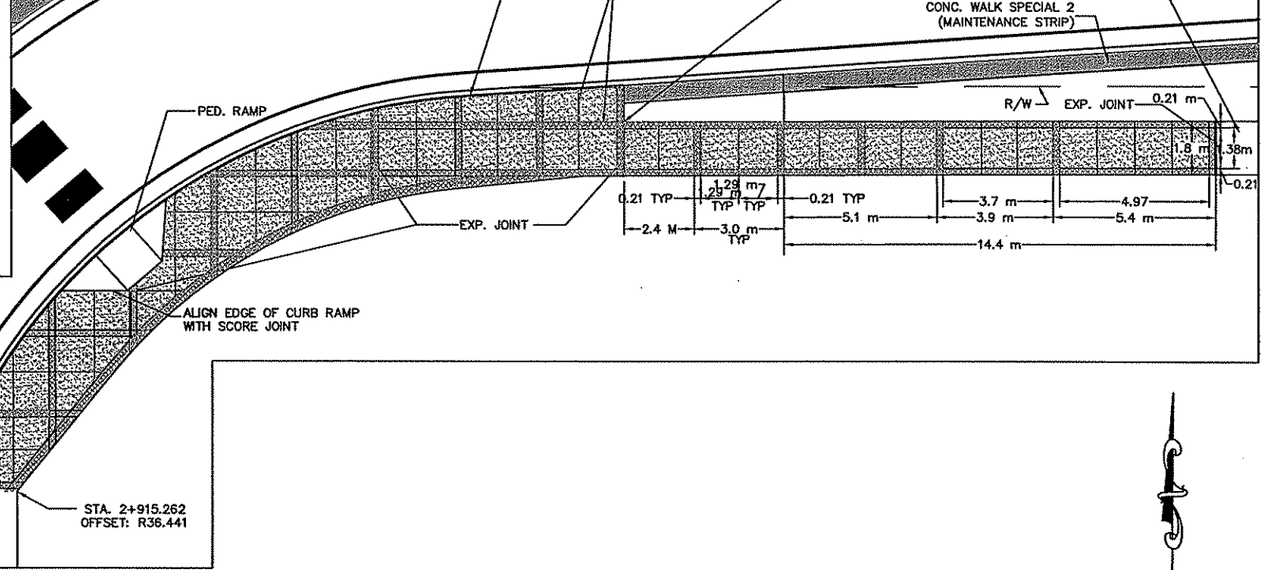
NORTHDALE BOULEVARD & MAIN STREET--N.W. PLAZA PAVING PLAN



NORTHDALE BOULEVARD & MAIN STREET--N.E. PLAZA PAVING PLAN



NORTHDALE BOULEVARD & MAIN STREET--S.W. PLAZA PAVING PLAN

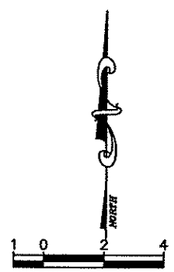


NORTHDALE BOULEVARD & MAIN STREET--S.E. PLAZA PAVING PLAN

LEGEND

- 100 mm CONCRETE WALK SPECIAL 1 TYPE "A"
- 100 mm CONCRETE WALK SPECIAL 1 TYPE "B"
- 100 mm CONCRETE WALK SPECIAL 2 (MAINTENANCE STRIP)

NOTE: SPACE SCORE JOINTS EQUALLY BETWEEN COLORED BANDING



HORIZONTAL SCALE
IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MJF	6/01/00	MOD. REQ. #27: MODIFIED S.E. PLAZA PAVING
2	TH	07/14/00	MOD. 47A – SCORE JOINT DIMENSIONS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: HMH
DESIGN BY: TPH
CHKED. BY: KPK
DWG. NAME: Northdale.dwg
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

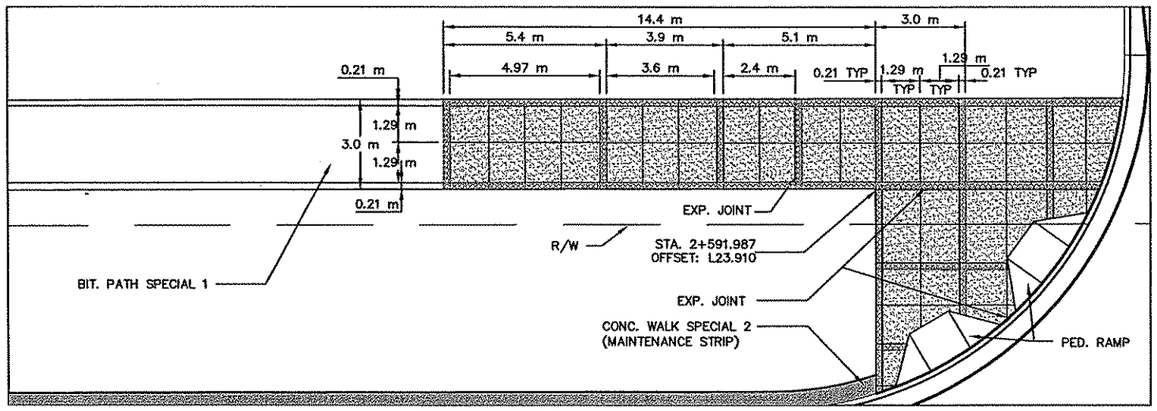
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLAZA PAVING DETAIL PLAN
NORTHDALE BOULEVARD & MAIN STREET

CITY PROJECT 98-20

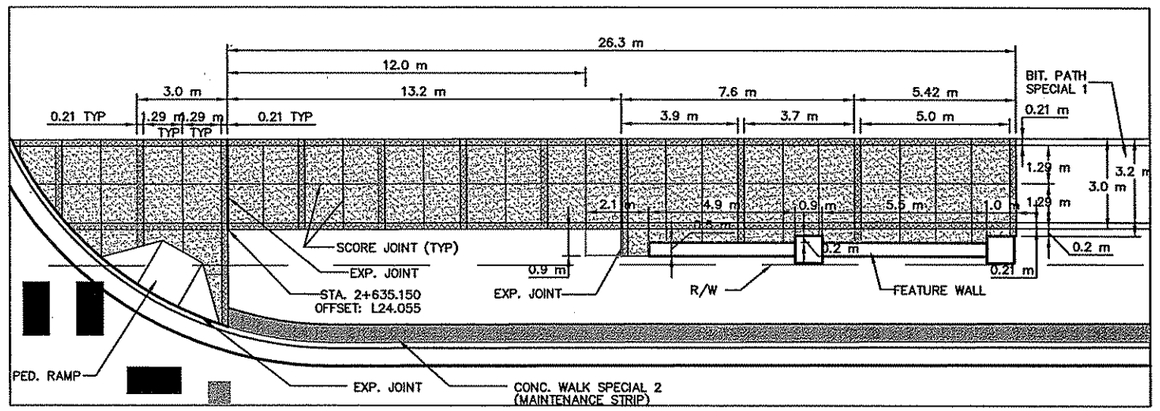
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 169 / 539

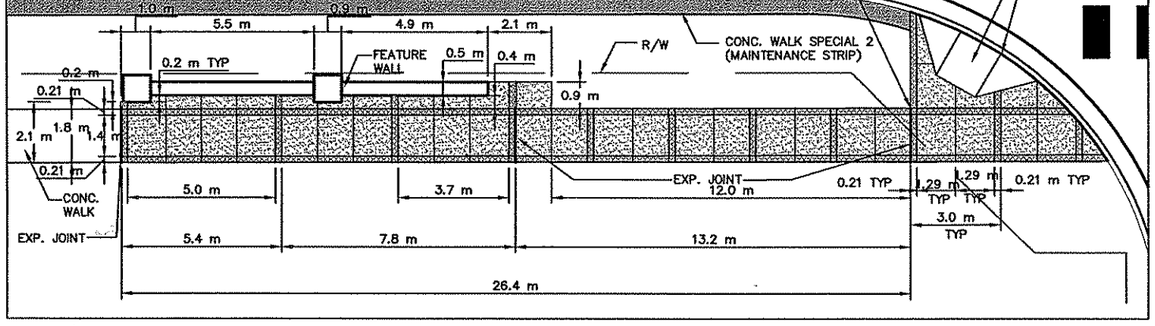
PLOT DATE: Aug 10, 2004 8:35am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\PLANNING\Misc\Plazas\Northdale-rev1.DWG



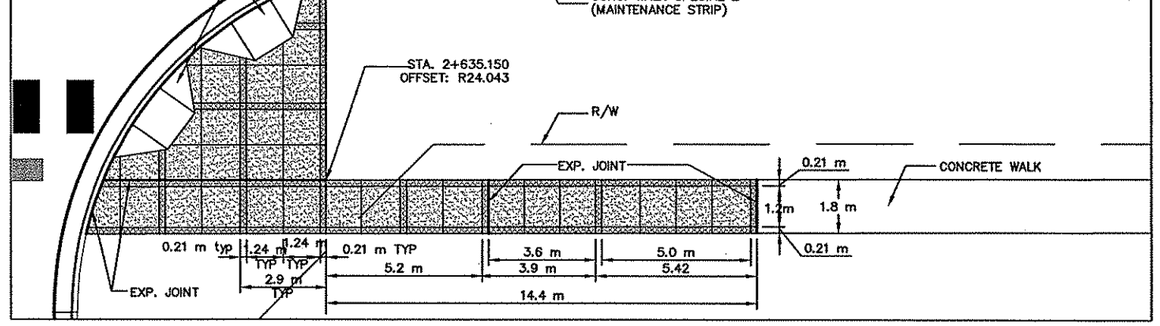
RIVERDALE VILLAGE BOULEVARD & MAIN STREET--N.W. PLAZA PAVING PLAN



RIVERDALE VILLAGE BOULEVARD & MAIN STREET--N.E. PLAZA PAVING PLAN



RIVERDALE VILLAGE BOULEVARD & MAIN STREET--S.W. PLAZA PAVING PLAN



RIVERDALE VILLAGE BOULEVARD & MAIN STREET-- S.E. PLAZA PAVING PLAN

LEGEND

100 mm CONCRETE WALK
SPECIAL 1 TYPE "A"

100 mm CONCRETE WALK
SPECIAL 1 TYPE "B"

100 mm CONCRETE WALK
SPECIAL 2
(MAINTENANCE STRIP)

NOTE: SPACE SCORE JOINTS EQUALLY BETWEEN COLORED BANDING

NORTH

1 0 2 4
HORIZONTAL SCALE
IN METERS

6 OF 8

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TH	07/14/00	MOD. 47A – SCORE JOINT DIMENSIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: HMH | DESIGN BY: TPH
CHKED. BY: KPK | DWG. NAME: Riv_Vill.dwg
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Gilb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLAZA PAVING DETAIL PLAN
RIVERDALE VILLAGE BOULEVARD & MAIN STREET

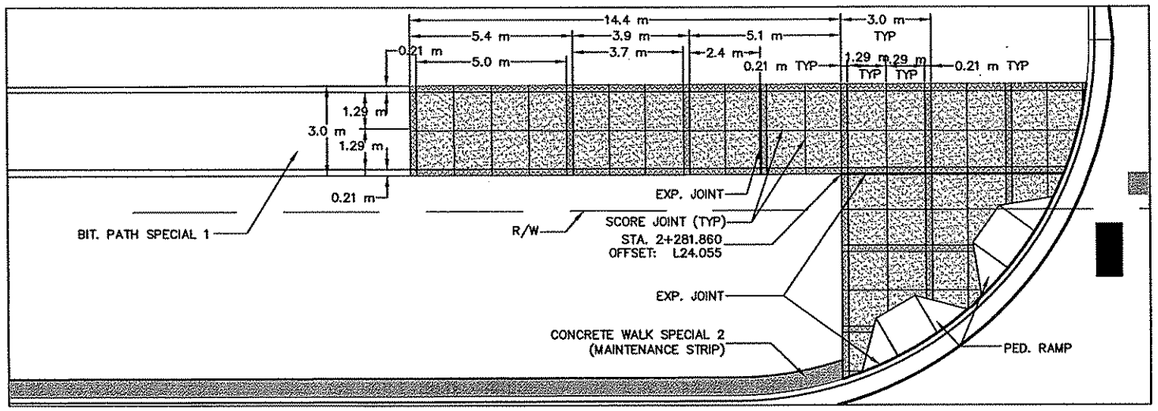
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

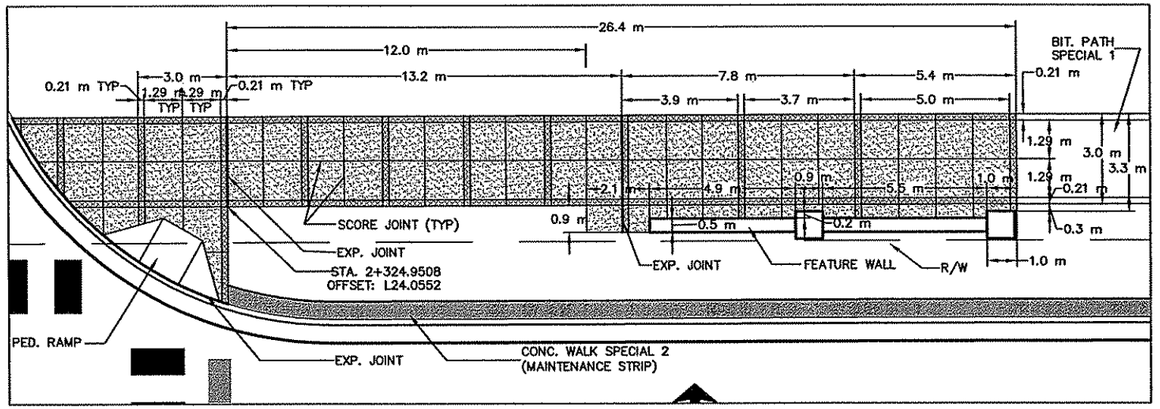
SHEET NO. 170 / 539

PLOT DATE: Aug 10, 2004 8:37am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH1 - rev1.DWG

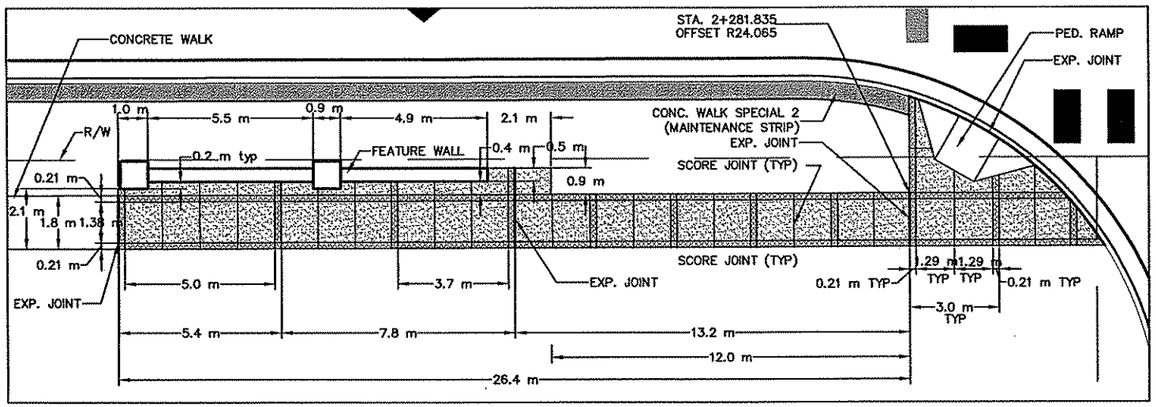
PBOX
2E-PLN
2W-MLS
1GBASE
2-ESUM
.STR
V-
2W
2PLNW
2-ALIW
2MHETO



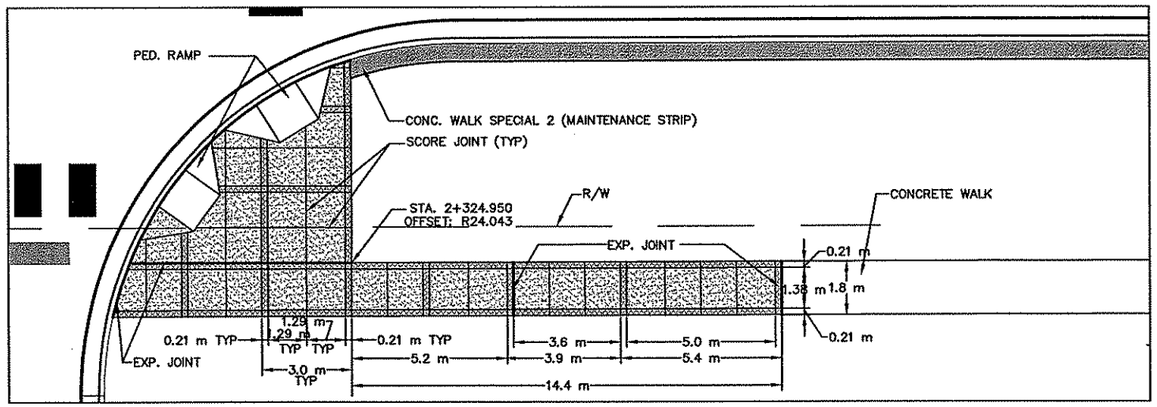
RIVER RAPIDS DRIVE & MAIN STREET--N.W. PLAZA PAVING PLAN



RIVER RAPIDS DRIVE & MAIN STREET--N.E. PLAZA PAVING PLAN



RIVER RAPIDS DRIVE & MAIN STREET--S.W. PLAZA PAVING PLAN



RIVER RAPIDS DRIVE & MAIN STREET--S.E. PLAZA PAVING PLAN

LEGEND

100 mm CONCRETE WALK SPECIAL 1 TYPE "A"

100 mm CONCRETE WALK SPECIAL 1 TYPE "B"

100 mm CONCRETE WALK SPECIAL 2 (MAINTENANCE STRIP)

NOTE: SPACE SCORE JOINTS EQUALLY BETWEEN COLORED BANDING

NORTH

1 0 2 4
HORIZONTAL SCALE IN METERS

7 OF 8

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TH	07/14/00	MOD. 47A – SCORE JOINT DIMENSIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: HMH
DESIGN BY: TPH
CHKED. BY: KPK
DWG. NAME: RR_Drive-rev1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

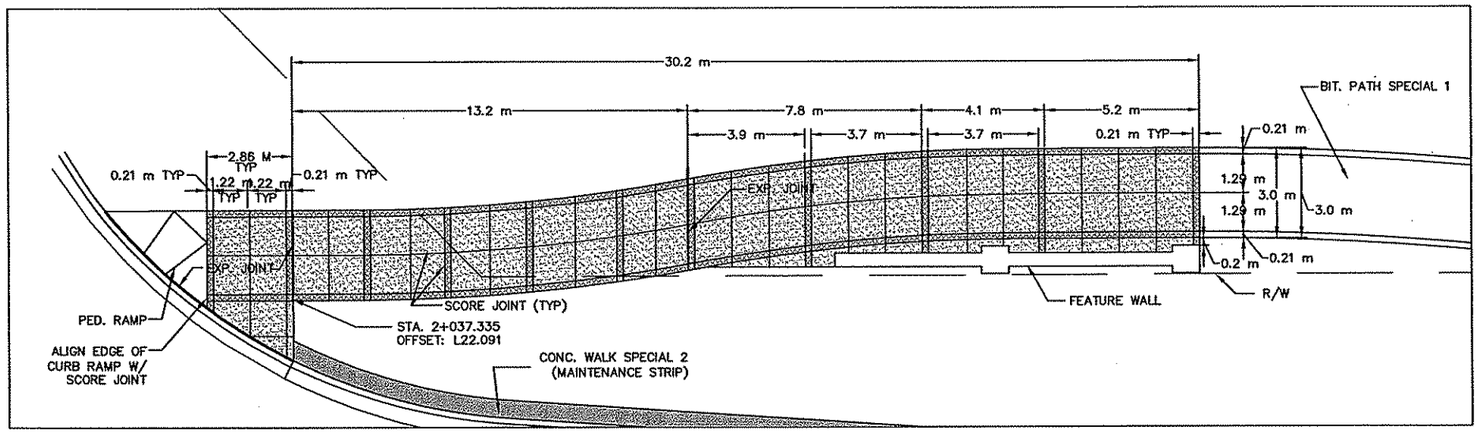
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLAZA PAVING DETAIL PLAN
RIVER RAPIDS DRIVE & MAIN STREET

CITY PROJECT 98-20

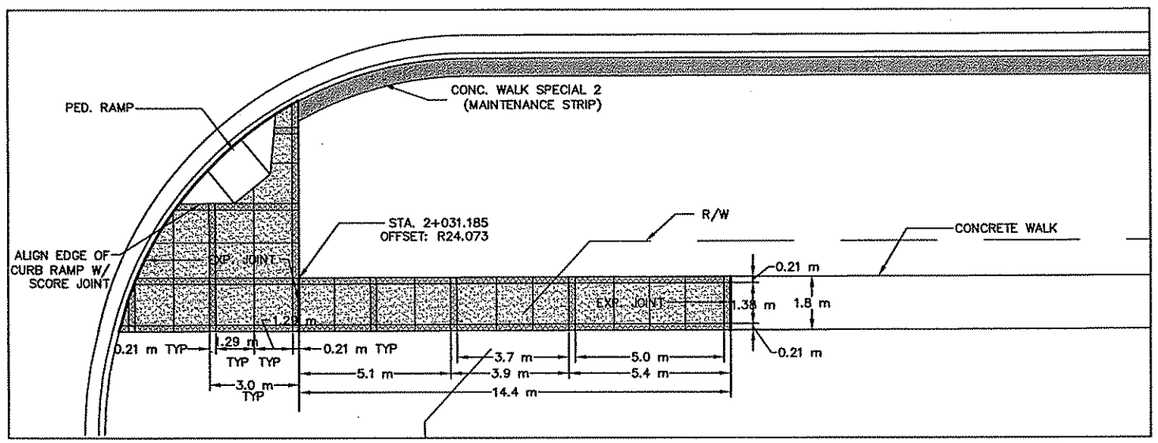
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 171 / 539

PLOT DATE: Aug 10, 2004 8:39am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHEET_PLANNING\Misc\Plazas\RR_Drive-rev1.DWG



ROUND LAKE BOULEVARD & MAIN STREET-- NORTH PLAZA PAVING PLAN



ROUND LAKE BOULEVARD & MAIN STREET-- SOUTH PLAZA PAVING PLAN

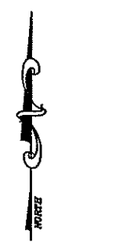
LEGEND

100 mm CONCRETE WALK SPECIAL 1 TYPE "A"

100 mm CONCRETE WALK SPECIAL 1 TYPE "B"

100 mm CONCRETE WALK SPECIAL 2 (MAINTENANCE STRIP)

NOTE: SPACE SCORE JOINTS EQUALLY BETWEEN COLORED BANDING



8 OF 8

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TH	07/14/00	MOD. 47A - SCORE JOINT DIMENSIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: HMH
DESIGN BY: TPH
CHKED. BY: KPK
DWG. NAME: Round_Lk-rev1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLAZA PAVING DETAIL PLAN
ROUND LAKE BOULEVARD & MAIN STREET

CITY PROJECT 98-20

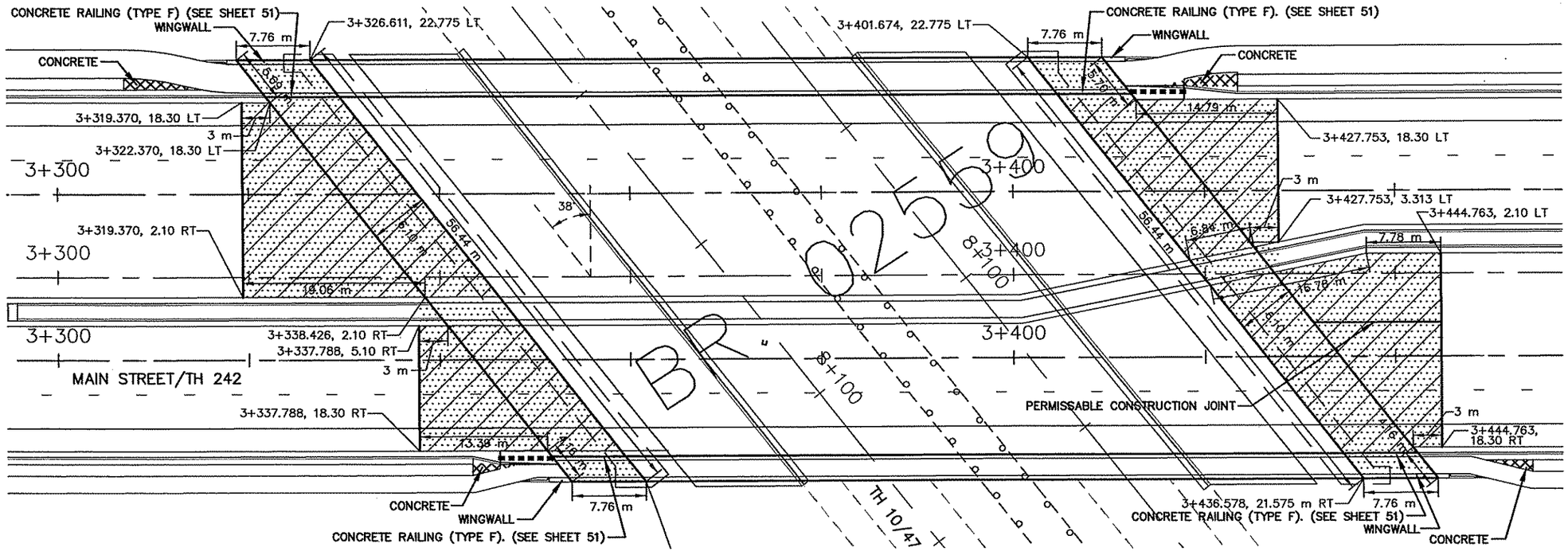
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 172 / 539

PLOT DATE: Aug 10, 04 8:41am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\PLANNING\Misc\Plazas\Round_Lk-rev1.dwg

42MHETO
42E-PLN
APBOX
42E-ALI

APPROACH PANELS A (38° SKEW)



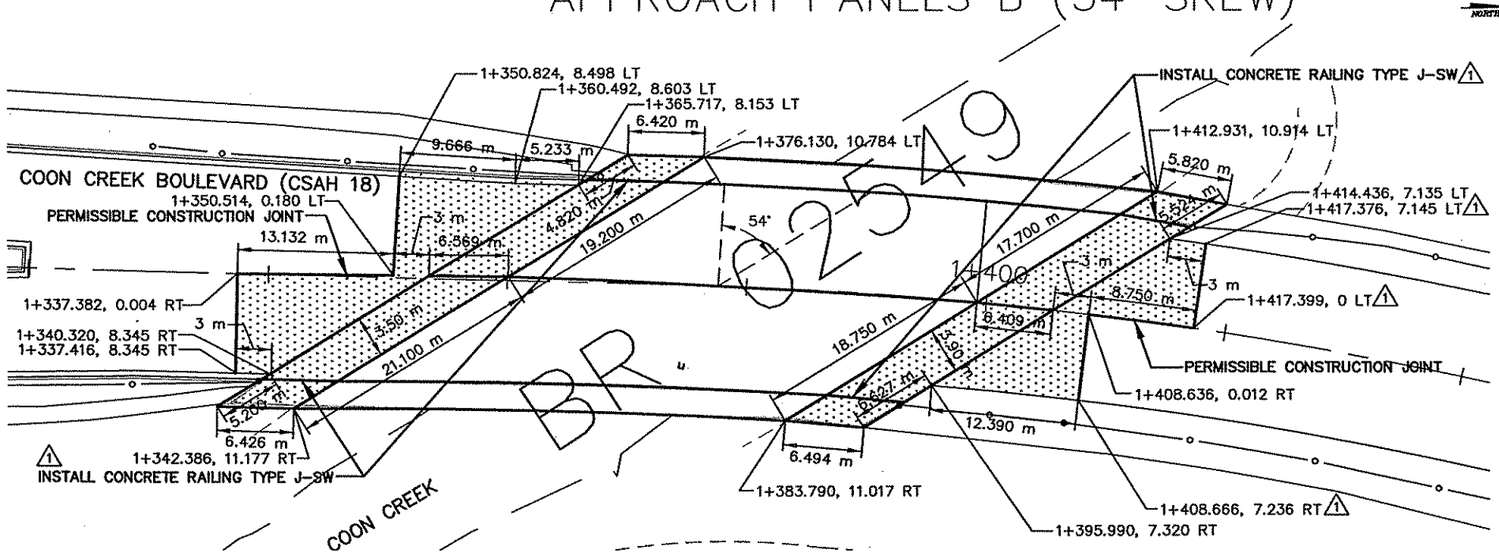
5 0 5 10
HORIZONTAL SCALE IN METERS

ALL DIMENSIONS ARE TO EDGE OF BIT UNLESS OTHERWISE NOTED

CONCRETE APPROACH PANEL

LOW SLUMP CONCRETE OVERLAY (1)

APPROACH PANELS B (54° SKEW)



REBAR REQUIREMENTS FOR BRIDGE APPROACH PANELS	
BRIDGE TO CONTRACTION JOINT	19.7 kg/m2 PLUS 3 EXTRA No. 16 FOR EXPANSION JOINT (IF NEEDED)
CONTRACTION JOINT TO END OF APPROACH PANEL	5.1 kg/m2
KEYWAY	4.8 kg/m
7.0' CURB TRANSITION	9.1 kg/EACH
SILL (IF REQUIRED)	20.2 kg/m

ANY DOWEL BARS REQUIRED ARE NOT INCLUDED IN THE TAB ABOVE

NOTES:
1. CONCRETE OVERLAY FOR BR. 02559 IS INCIDENTAL TO THE BID PRICE FOR APPROACH PANELS
2. CONCRETE OVERLAY NOT REQUIRED FOR BR. 02549
3. SELECT GRANULAR MATERIAL REQUIRED FOR EMBANKMENT BEHIND BRIDGE ABUTMENTS SHALL COMPLY WITH SPEC. 3149.2B, MODIFIED TO 5% OR LESS PASSING THE 75 µm SIEVE. MATERIAL SHALL BE PLACED BY THE CONTRACTOR AFTER COMPLETION OF THE ABUTMENT. REFER TO PLAN SHEET 50 FOR ADDITIONAL INFORMATION REGARDING THIS BACKFILL.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	ADDED PLAN SHEET
2	JJL	2/11/00	ADDEND ⚠1 MODIFIED APPROACH PANEL AREAS. ADDED ⚠1 NOTE TO INSTALL RAILING TYPE J-SW
3	JJL	5/15/00	MOD.REQ.#28: REV. APPROACH PANELS, ADDED DIMS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR/JJL
DESIGN BY: JJL
CHKED. BY: KPK/PBD
DWG. NAME: 242EDET2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
TH 242 AND COON CREEK BLVD. BRIDGES
CONSTRUCTION PLAN DETAILS
BRIDGE APPROACH PANELS

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 172A / 539

PLOT DATE: Aug 10, 2004 8:43am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SHT\242edet2.dwg

P DRAWINGS
42-ESUM
42MHETO
_STRIPE
_STRIPE
42PLNW
42E-SUP
42E-

MAIN STREET (C.S.A.H. 14)

STA AHEAD: 3+227.5763
STA BACK: 3+227.5778

STA AHEAD: 3+227.5778
STA BACK: 3+227.5763

3+200
3+300
4.2 m
3.6 m
3.6 m
4.2 m
3.0 m SHLD.
MAIN STREET/TH 242

END SAP 02-614-19
END SAP 114-020-19
BEGIN SP 0212-40 (TH242=242)
BEGIN SP 114-010-11
MAIN ST. (CSAH 14/TH 242)
B/L STA. 3+211.698

8+002.908
8+010.108
8+039.515
8+042.270
8+049.470

LEG D1
RAMP D
2.4 m
1.8 m
1.8 m SHLD.
8+100

RAMP C
8+600
8+700
WB TH 10/47
EB TH 10/47
8+500
3.6 m
3.0 m SHLD.

RAMP D
1.2 m SHLD
2.4 m
4.2 m
2.4 m MEDIAN
4.8 m HOV LANE
3.6 m (PATROL PAD)
0.6 m SHLD
1:13.33 TAPER
0.6 m SHLD.
VARIES
1.8 m SHLD.

8+630.866
8+636.626
8+650.066
8+710.551
8+723.991
8+729.751

CROOKED LAKE BOULEVARD
1+000
1+800

5 0 10 20
HORIZONTAL SCALE
IN METERS

ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

1 OF 3

PLOT DATE: Jan 10, 2000 9:53am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH1\242sup05.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED PLAN SHEET
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242SUP05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D and 242 LEG D1
SUPERELEVATION
SUPERELEVATION PLAN

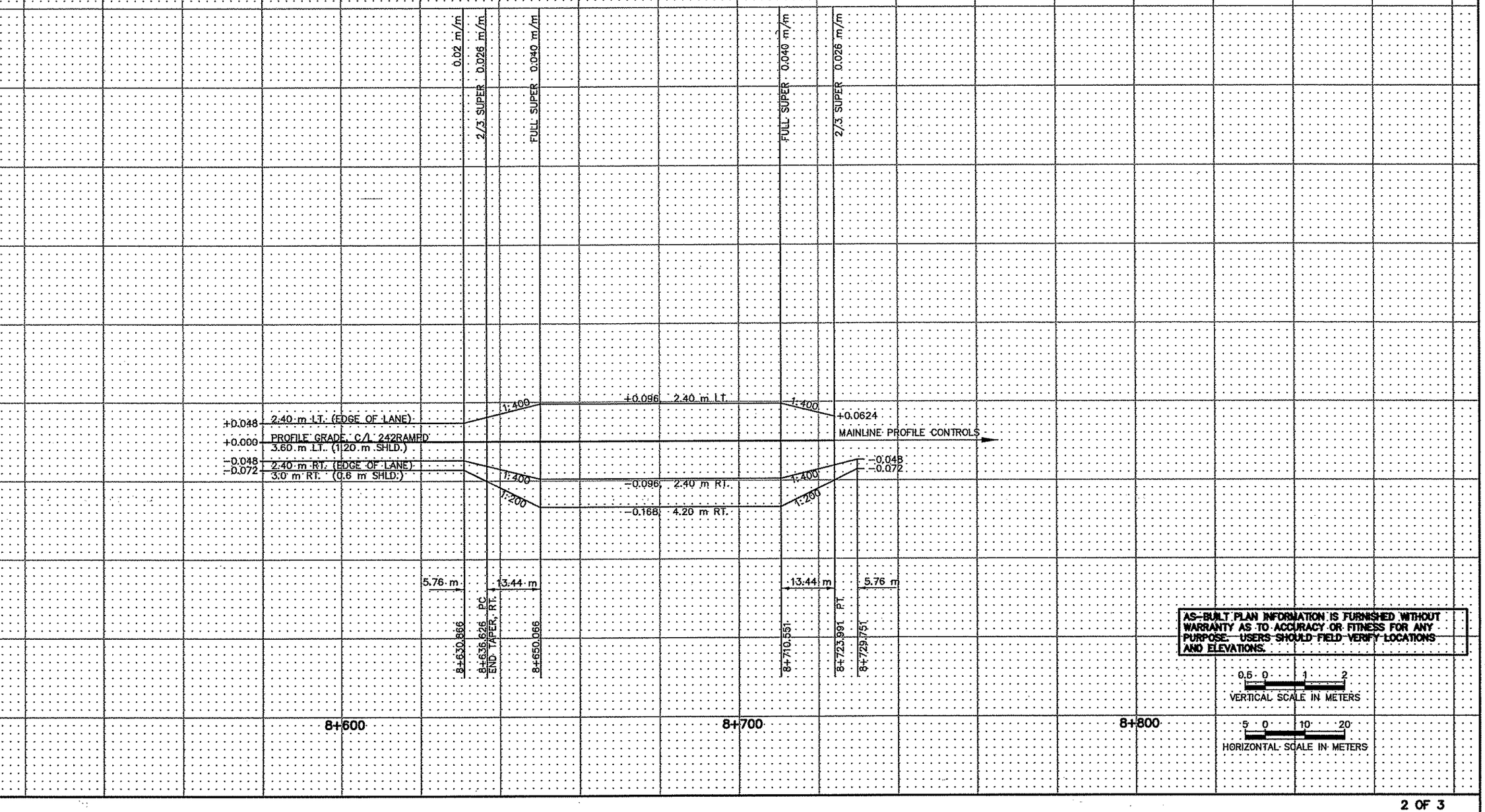
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 173 / 539

F DRAWINGS
SAPBOX

242RAMPD
CURVE #123
R = 863.554 m
90 km/hr
e = 0.040 m/m
PC = 8+636.300
PT = 8+724.166



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

0.5 0 1 2
VERTICAL SCALE IN METERS

5 0 10 20
HORIZONTAL SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242SUP03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D, CURVE #123
SUPERELEVATION
SUPERELEVATION TRANSITION DIAGRAM

CITY PROJECT 98-20

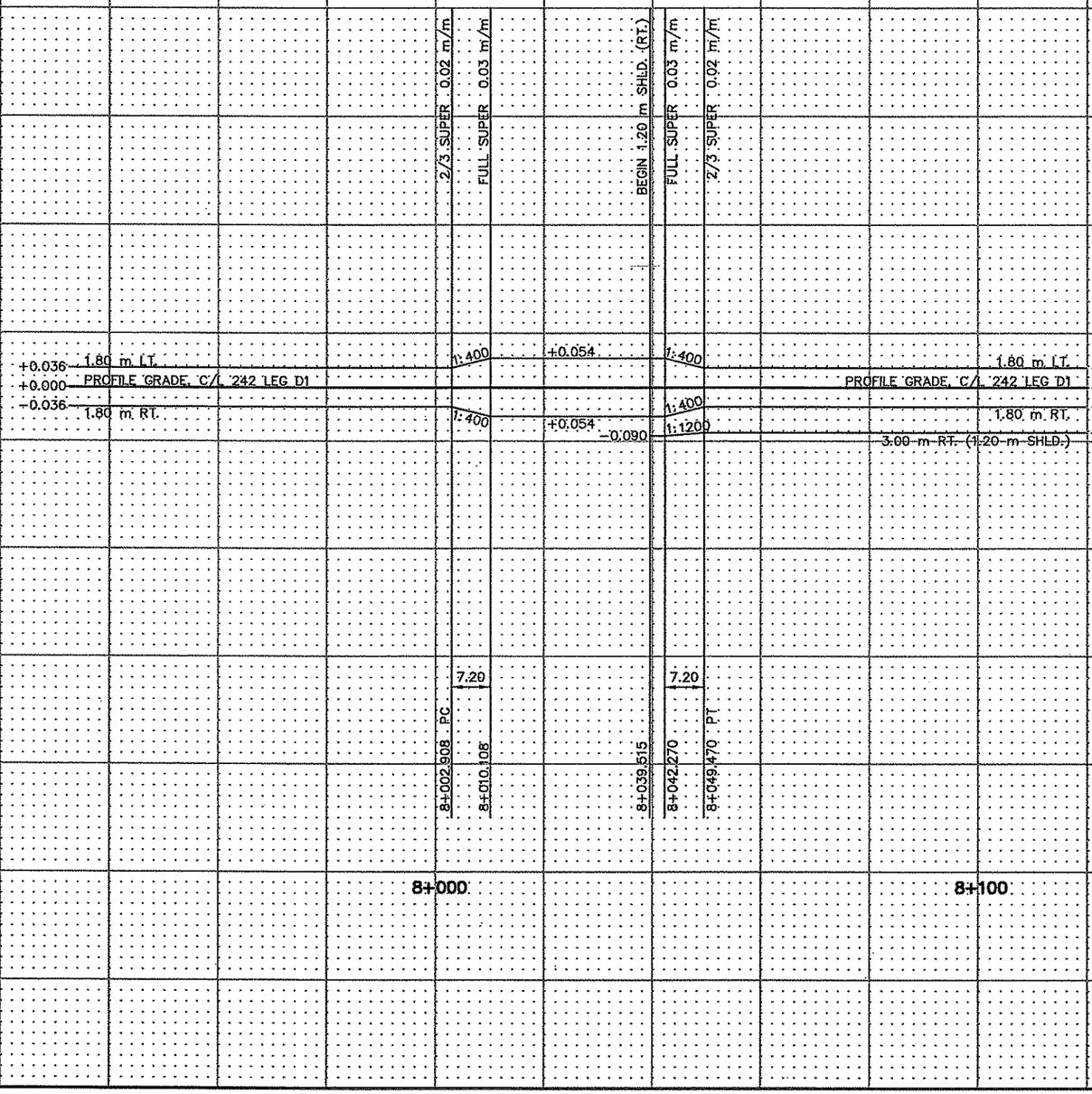
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 174 / 539

PLOT DATE: Dec 2x,,999 5:05pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH...42sup03.dwg

+ DRAWINGS
SAPBOX

242LEGD1
CURVE #150
R = 80.000 m
50 km/hr
e = 0.03 m/m
PC = 8+002.908
PT = 8+049.470



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

0.5 0 1 2
VERTICAL SCALE IN METERS

5 0 10 20
HORIZONTAL SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242SUP04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Fields
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242LEGD1, CURVE #150
SUPERELEVATION
SUPERELEVATION TRANSITION DIAGRAM

CITY PROJECT 98-20

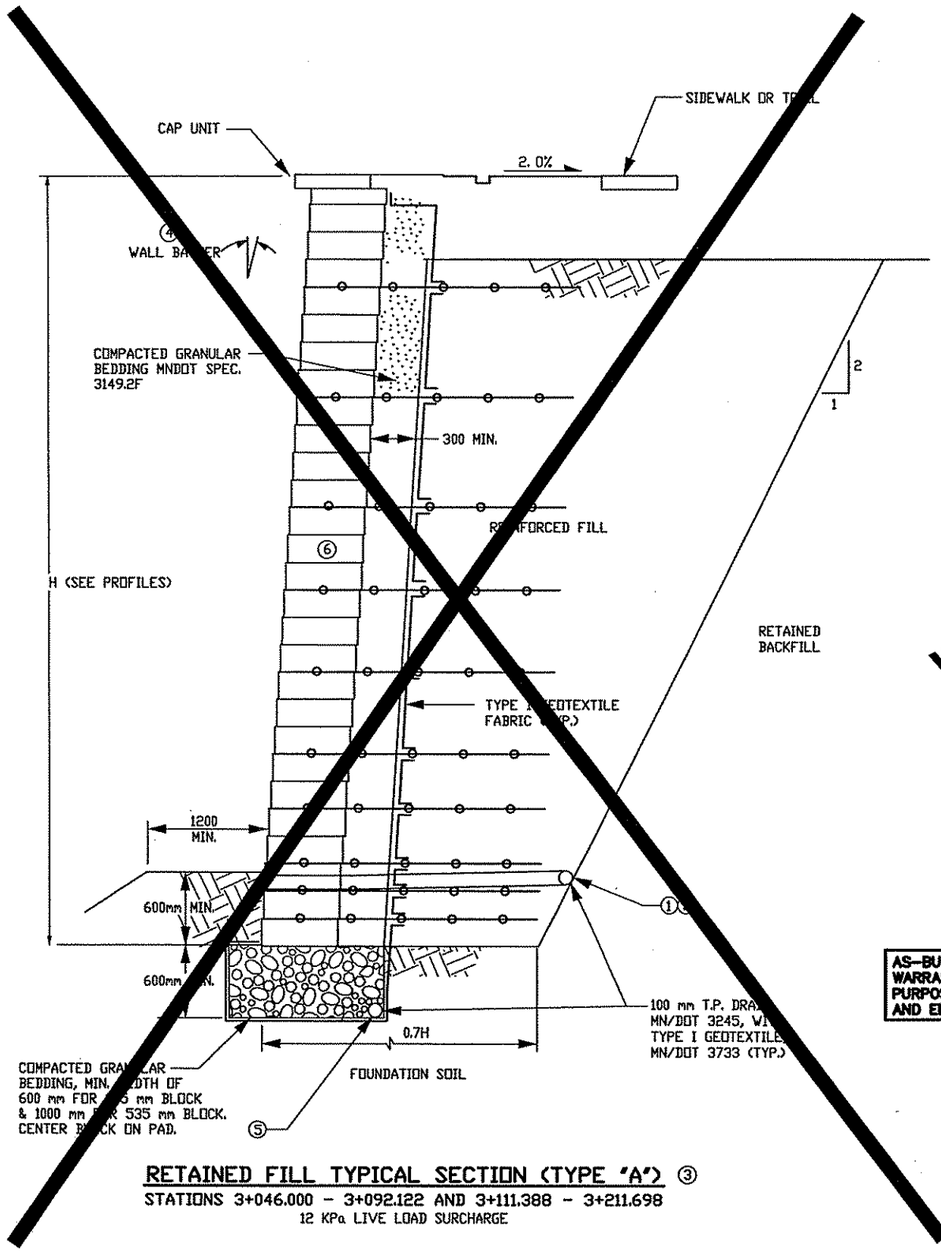
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 175 / 539

PLOT DATE: Dec 2..,1999 5:13pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh...242sup04.dwg

NOTES:

1. INSPECT EXCAVATION SLOPES FOR ACTIVE SEEPAGE AND PLACE ADDITIONAL DRAINS WHERE SEEPAGE OCCURS AS DIRECTED BY THE ENGINEER.
2. PLACE DRAIN AT BOTTOM OF REINFORCED SOIL IF PIPE CAN BE SLOPED TO OUTLET. DO NOT OUTLET ONTO A SIDEWALK OR TRAIL.
3. BLOCK & GEOTEXTILE REINFORCEMENT TO BE DESIGNED BY CONTRACTOR AND APPROVED BY ENGINEER.
4. WALL BATTER TO BE DESIGNED BY CONTRACTOR AND APPROVED BY ENGINEER.
5. DRAIN - DELETE IF PIPE AT THIS ELEVATION CANNOT BE SLOPED TO DRAIN, AS APPROVED BY ENGINEER.
6. BLOCK SHALL BE 6000 PSI MINIMUM W/SEALER.



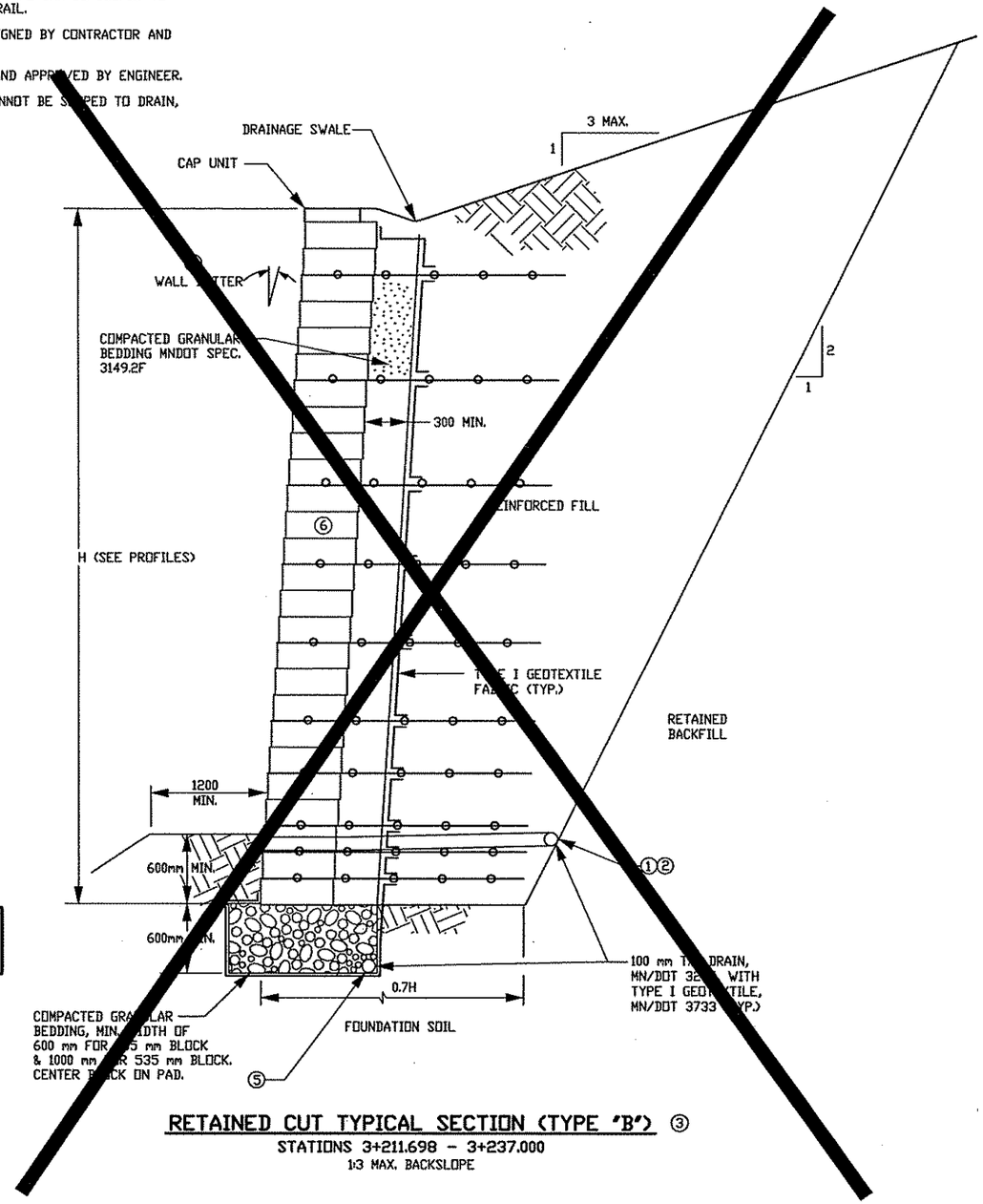
RETAINED FILL TYPICAL SECTION (TYPE "A") ③

STATIONS 3+046.000 - 3+092.122 AND 3+111.388 - 3+211.698

12 KPa LIVE LOAD SURCHARGE

WALL REMOVED FROM PROJECT

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



RETAINED CUT TYPICAL SECTION (TYPE "B") ③

STATIONS 3+211.698 - 3+237.000

1:3 MAX. BACKSLOPE

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJR	7/5/00	MOD. REQ. #36: REMOVED WALL FROM PROJECT
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: MKM
CHKED. BY: PBD/KPK
DWG. NAME: 242WDET1
DATE: NBOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)

MODULAR BLOCK RETAINING WALL DETAILS

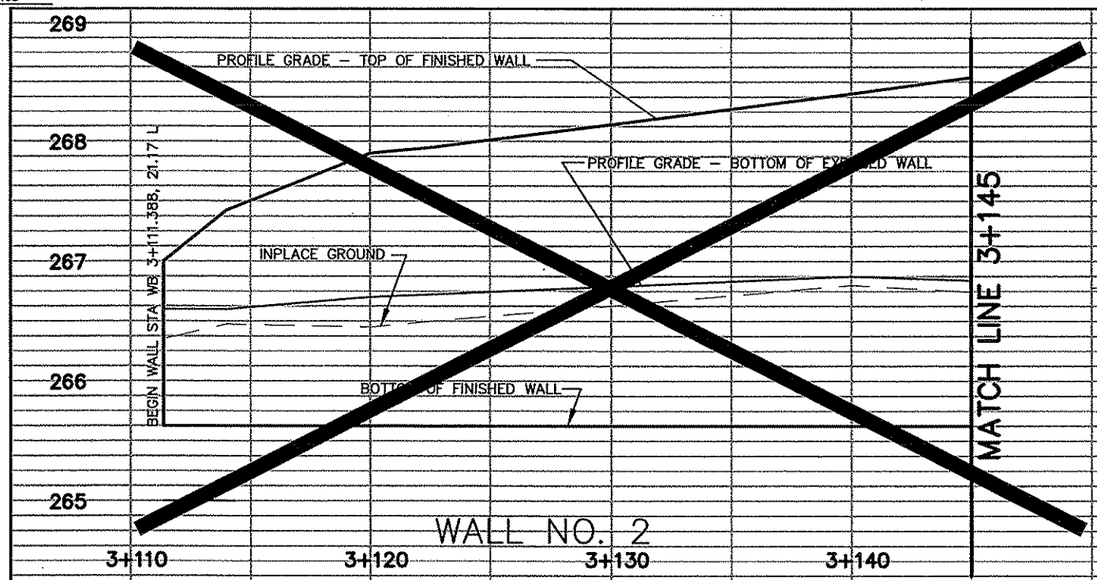
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

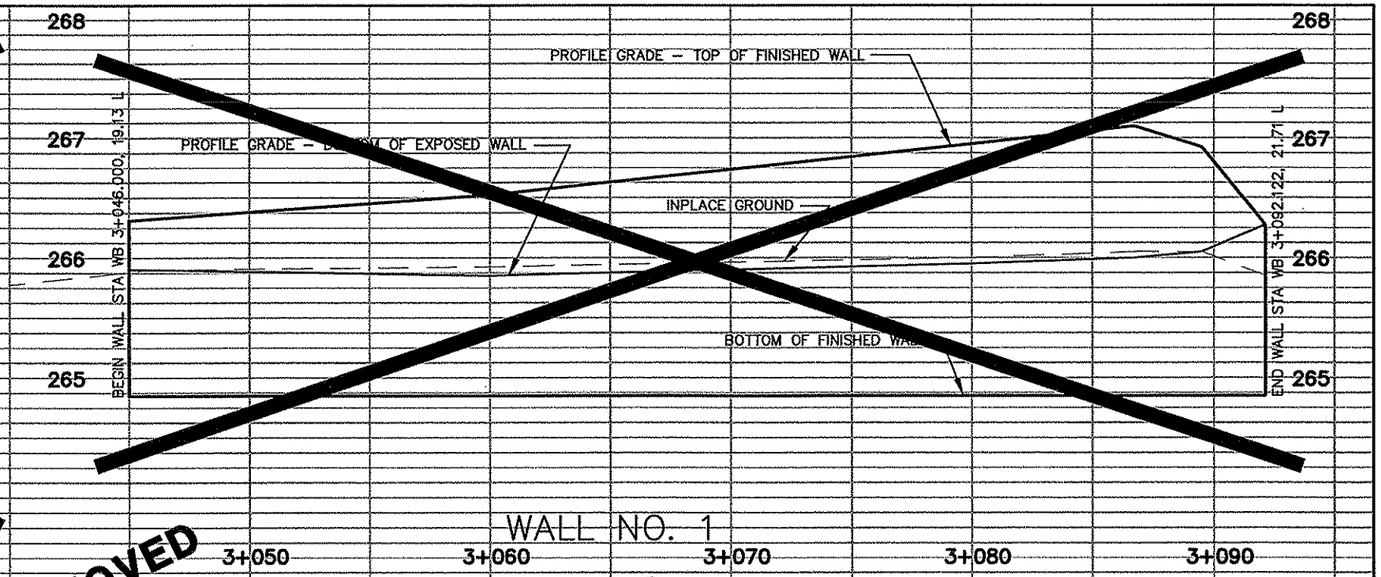
SHEET NO. 176 / 539

PLOT DATE: Jun 28, 2000 - DISK FILE NAME: (14.01) R:\33889\33889028\33889WPLAN_SHT\ENGRING\242WDET1.dwg

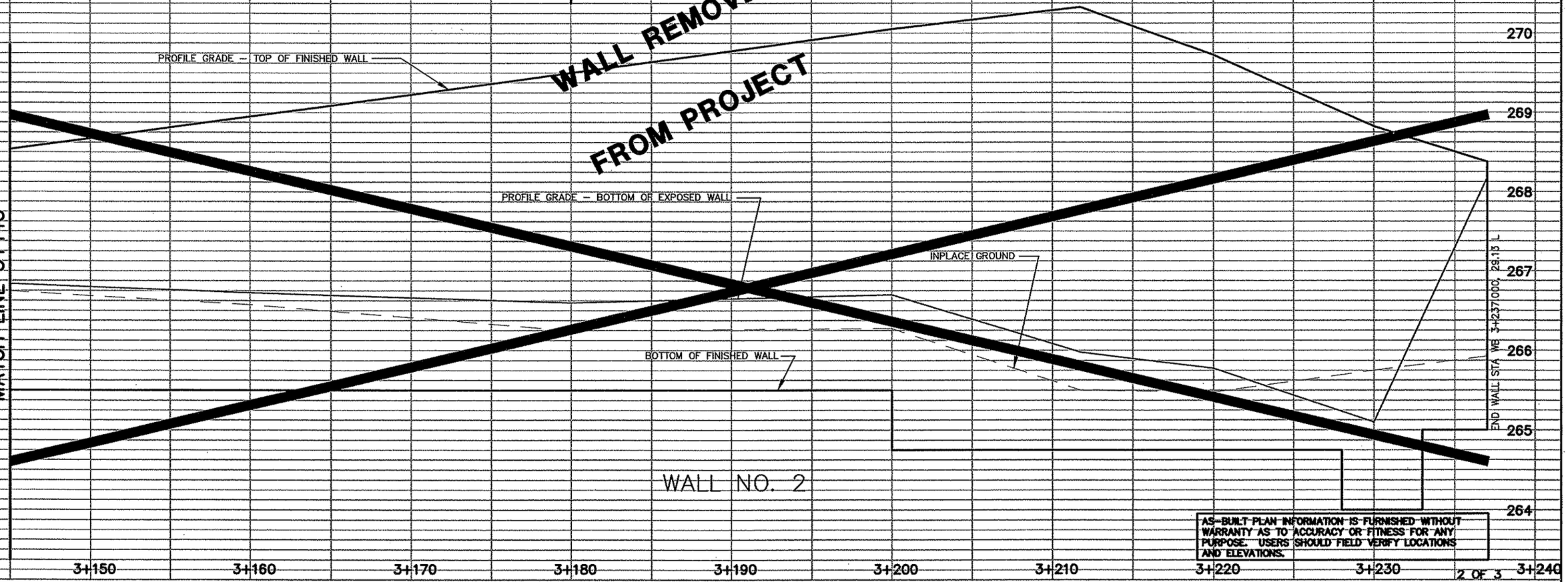
SAPBOX



MATCH LINE 3+145



WALL REMOVED FROM PROJECT



MATCH LINE 3+145

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	7/5/00	MOD. REQ. #36: REMOVED WALL FROM PROJECT
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: MKM
CHKED. BY: PBD/KPK | DWG. NAME: WALLPROF
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)

RETAINING WALL PROFILES

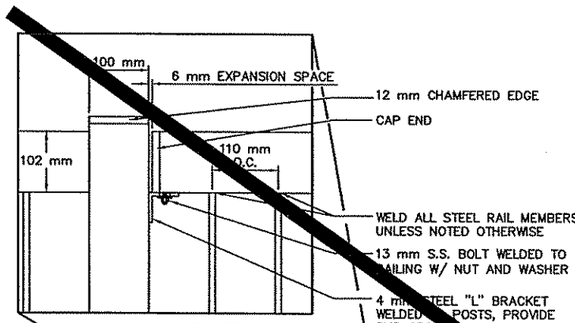
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 177 / 539

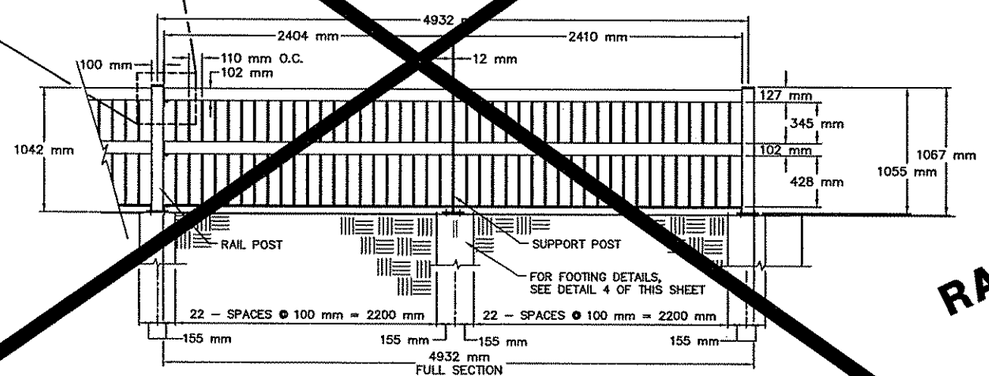
PLOT DATE: Jun 28, 2000 .n DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\WALLPROF.dwg

P DRAWINGS
SAPBOX

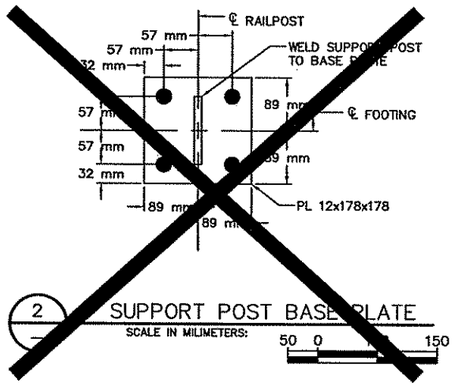


TYP. RAIL TO POST ATTACHMENT DETAIL
N.T.S.

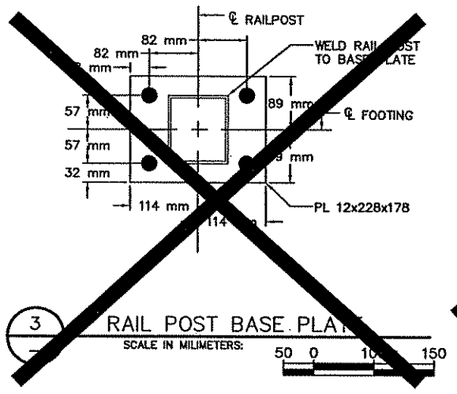
NOTE: INCLUDE RAIL TO POST ATTACHMENT PER EACH FULL SECTION.



1 ELEVATION OF ORNAMENTAL FENCE DESIGN SPECIAL A
SCALE IN MILIMETERS: 200 0 400 800



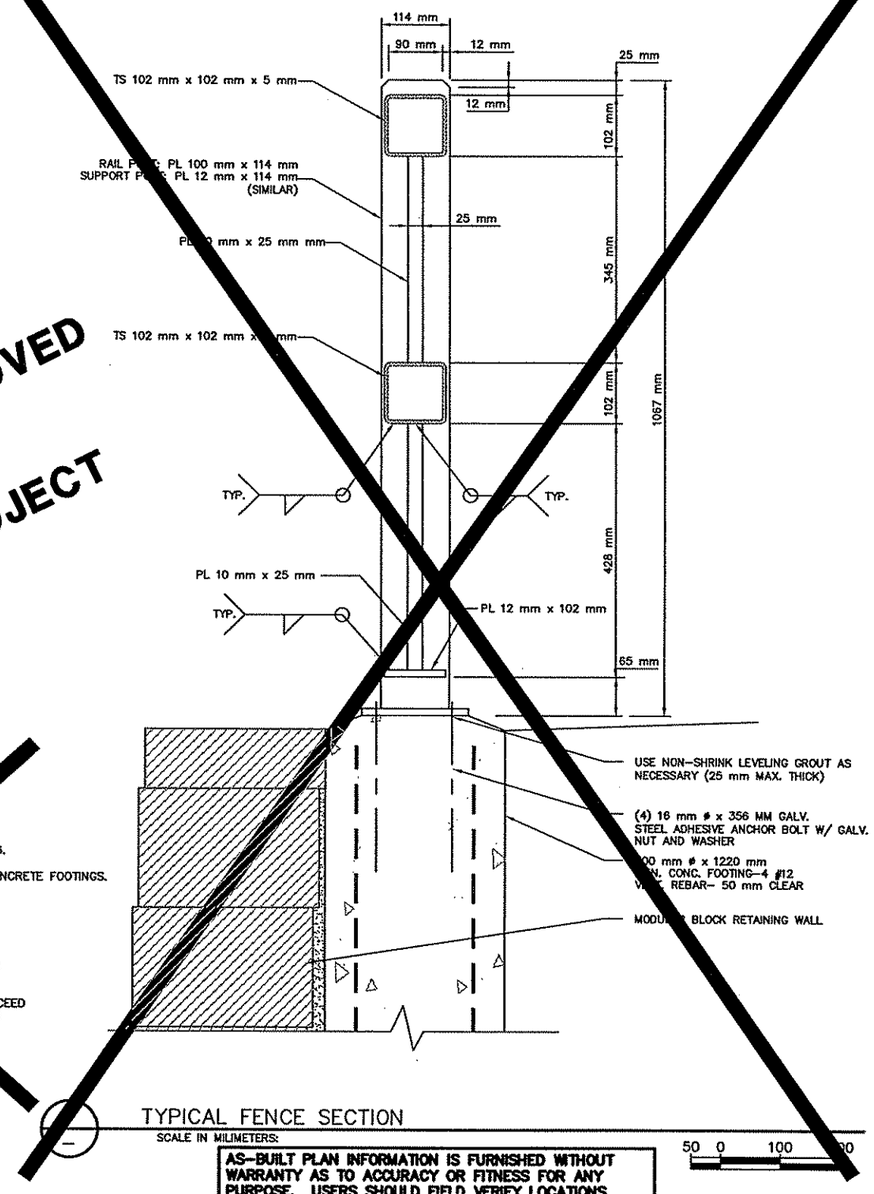
2 SUPPORT POST BASE PLATE
SCALE IN MILIMETERS: 50 0 100 150



3 RAIL POST BASE PLATE
SCALE IN MILIMETERS: 50 0 100 150

GENERAL NOTES:

1. ALL STRUCTURAL STEEL TUBING IN THE RAIL SHALL BE A500, GRADE B AND A513, GRADE 2.
2. MATERIAL FOR PLATES SHALL CONFORM TO SPEC. 3306.
3. RAIL POSTS AND BRACKETS SHALL BE INCIDENTAL TO CONCRETE FOOTINGS. FOR RAIL COLOR SEE SPECIAL PROVISIONS.
4. THE RAILING, BASE PLATES AND ALL EXPOSED METAL SURFACES SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH SPECIFICATIONS, RAL 8017.
5. RAILING SHALL BE GROUNDED WITH 6mm DIA. COPPER ROD AS PER SPEC. 2557.
6. ADHESIVE ANCHOR BOLT CAPACITY SHALL MEET OR EXCEED THOSE PUBLISHED FOR THE HILTI "HIT HY150" INJECTION ADHESIVE ANCHOR."
7. COLOR OF NON-SHRINK GROUT SHALL BE GREY.
8. ALL FOOTING CONCRETE TO BE 3Y43.



4 TYPICAL FENCE SECTION
SCALE IN MILIMETERS: 50 0 100

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RAILING REMOVED FROM PROJECT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED NOTE 8 CONC. FOOTING FROM 1A43 TO 3Y43
2	JJL	7/5/00	MOD. REQ. #36: REMOVED RAIL FROM PROJECT
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: KPK/PBD | DWG. NAME: RW_RAILG
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
RAILING DETAIL ON RETAINING WALL
MAIN STREET NEAR AMOCO STATION

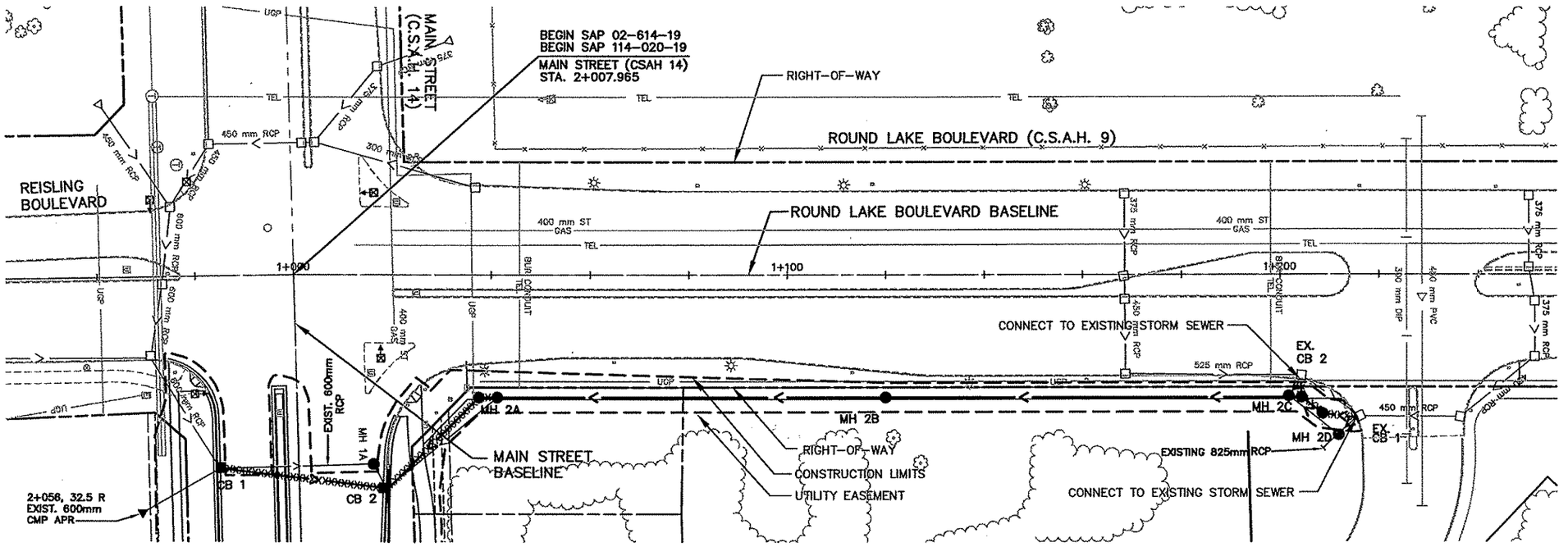
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 178 / 539

PLOT DATE: .8, 2000 2:06pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLA...T\PLANNING\Misc\E_misc\RW_railg.dwg

E DRAWINGS
PBOX
2E-CLM
2-PUT
M-LATI
2-ALIW
86SITE
2PLNW
2-
2
2M
2-EUT



SEE SHEET 2 OF 31

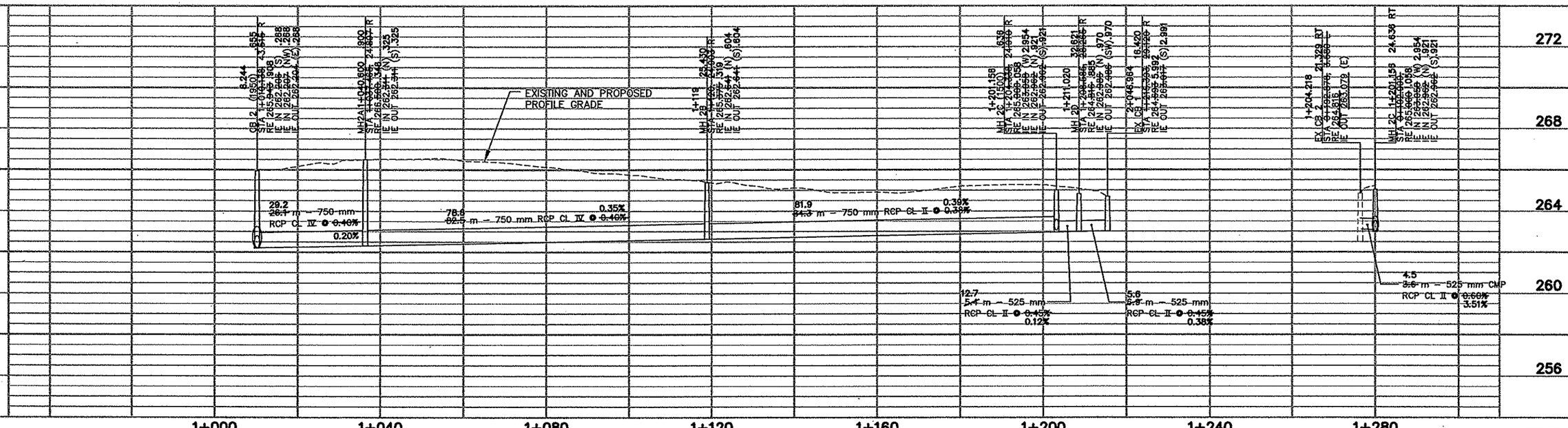
NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

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NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED NOTES: CONNECT TO EXIST. STORM SEWER
2	TSR	2/27/04	AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK
DWG. NAME: RONDDR01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

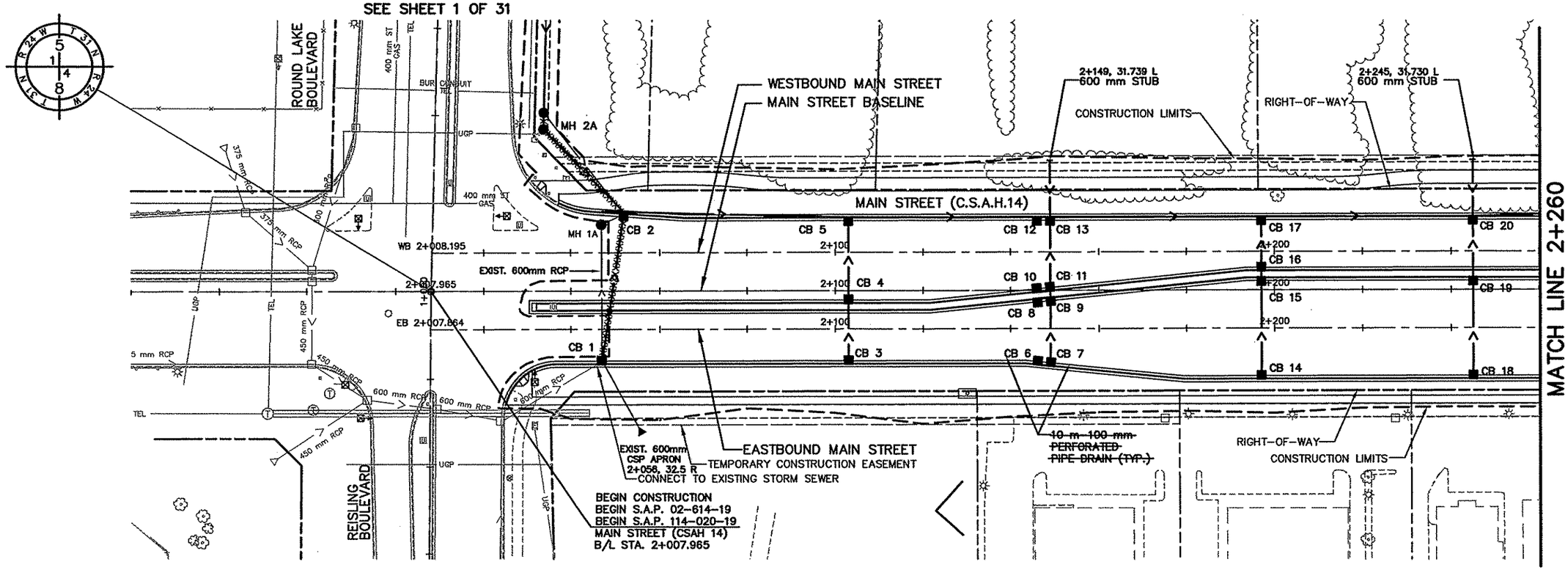
MAIN STREET/T.H. 242 RECONSTRUCTION
ROUND LAKE BOULEVARD
DRAINAGE PLAN AND PLAN AND PROFILE
STATION 1+000.000 TO STATION 1+255.000

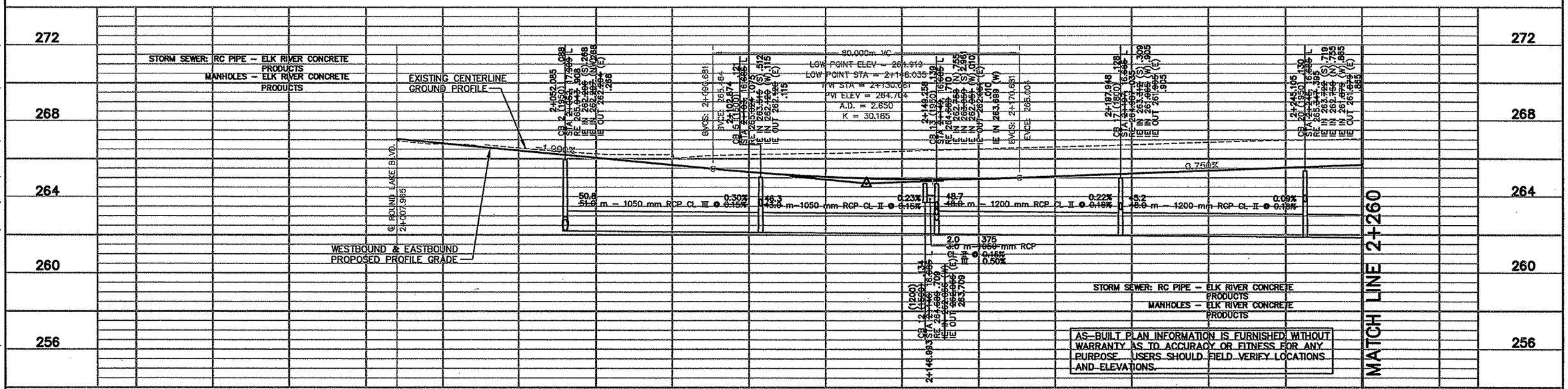
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 179 / 539

PLOT DATE: Jan 04, 2000 12:03pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SH...\ENGRING\RONDdr01.dwg





REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CORRECTED MAIN ST. SAP No.s
			ADDED NOTE: CB1 CONNECT TO EXIST. STORM SEWER
2	JJL	3/06/00	MOVED CB No's 6,8,10,12. REVISED IE CB 13.
3	JJL	4/06/00	MOD.REQ.#8: MOD. STRUC. SIZE CB 12, CB 13 & CB 20
4	TSR	2/27/04	AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: PMJ/IKR
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242DR01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
DRAINAGE PLAN AND PROFILE
STATION 2+007.965 TO STATION 2+260.000

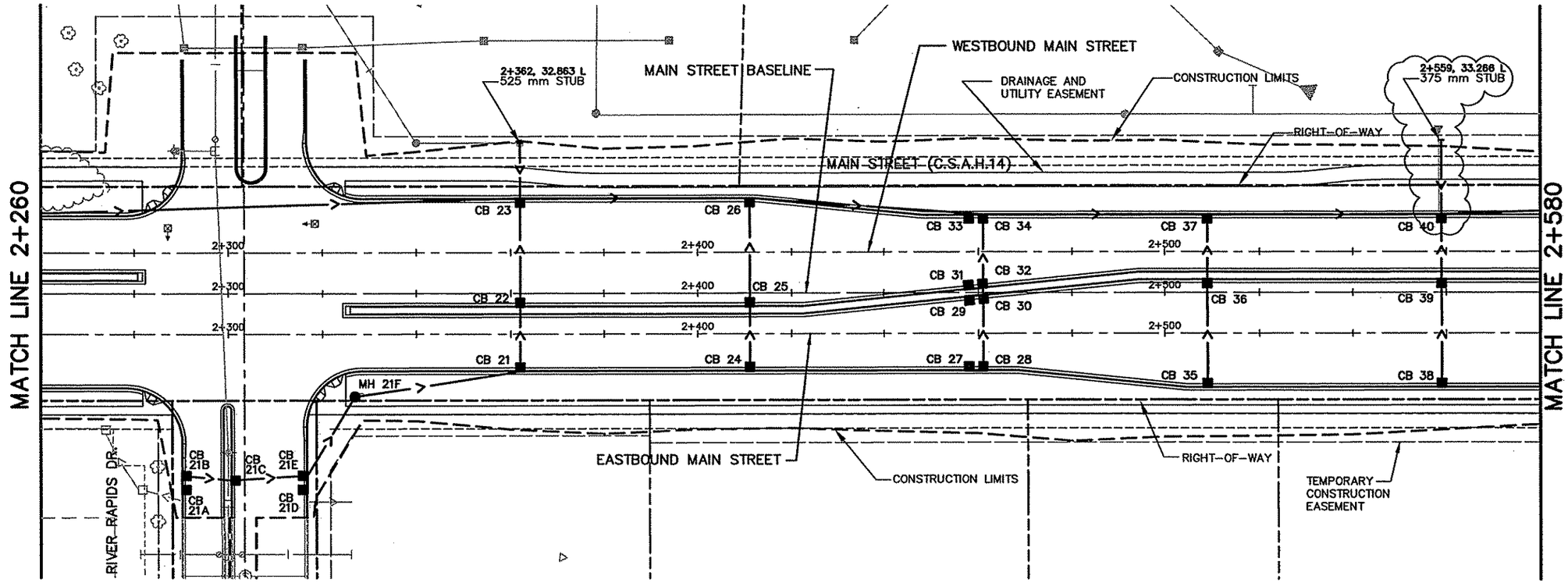
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 180 / 539

PLOT DATE: Dec 1..04 4:29pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...GRING\242dr01.dwg

F DRAWINGS
8386UTIL
SAPBOX
242CLM-W
242-PUT
242PLNW
242-ALIW
MAIN-PRF
242-ESUM
242MHVEG



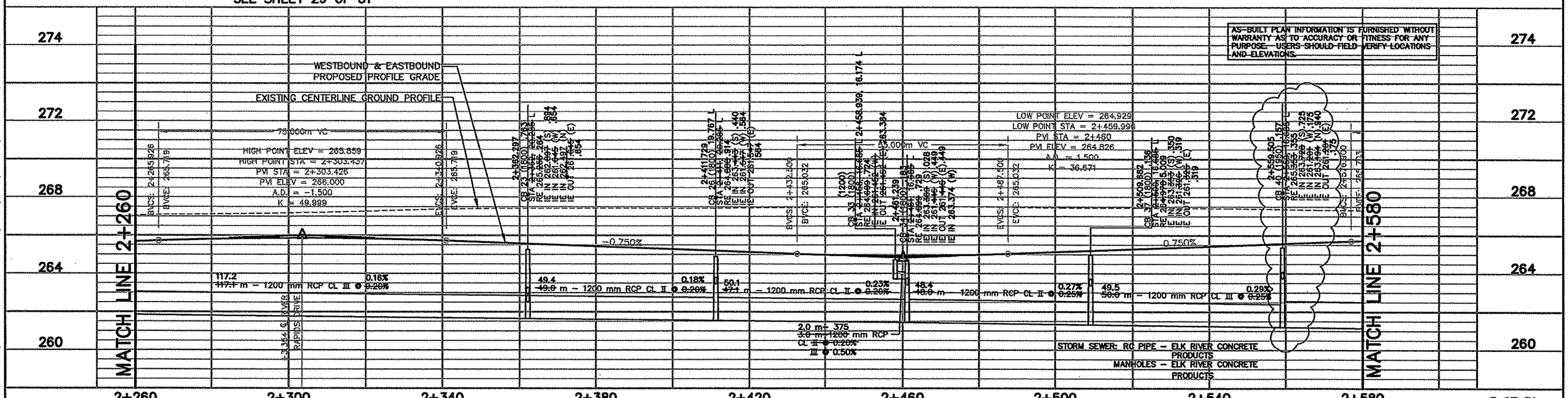
SEE SHEET 29 OF 31

5 0 10 20
HORIZONTAL SCALE IN METERS

STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:

ELEVATION AND VERTICAL CURVE DATA SHOWN ARE BASED ON THE EASTBOUND AND WESTBOUND ROADWAY PROFILES. STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

3 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	3/06/00	MOVED CB No's. 21A,21D,27,29,31,33.
2	JJL	4/06/00	MOD.REQ.#8: MODIFIED CB 33
3	JJL	7/07/00	MOD. REQ. #46: ADDED STUB TO CB 23
4	JJL	04/04/01	MOD. REQ. #83: ADDED STUB TO CB 40
5	TSR	2/27/04	AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242DR02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
DRAINAGE PLAN AND PROFILE
STATION 2+260.000 TO STATION 2+580.000

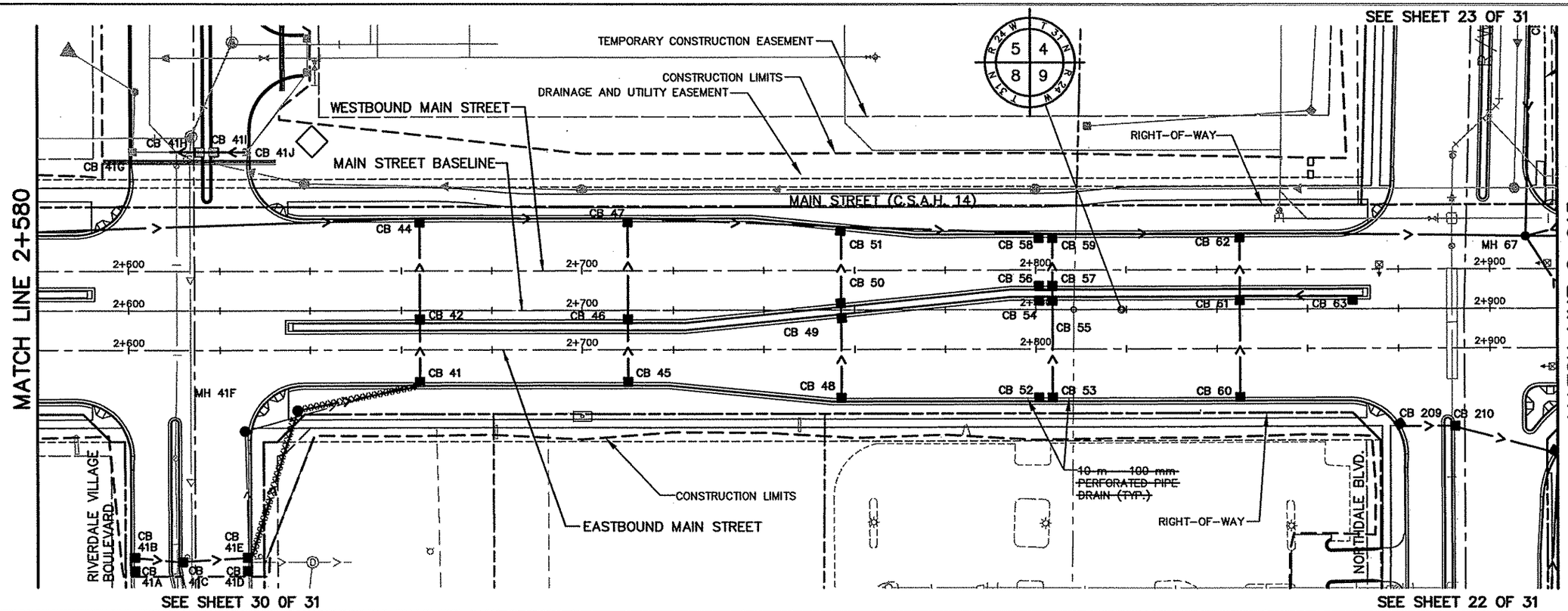
CITY PROJECT 98-20

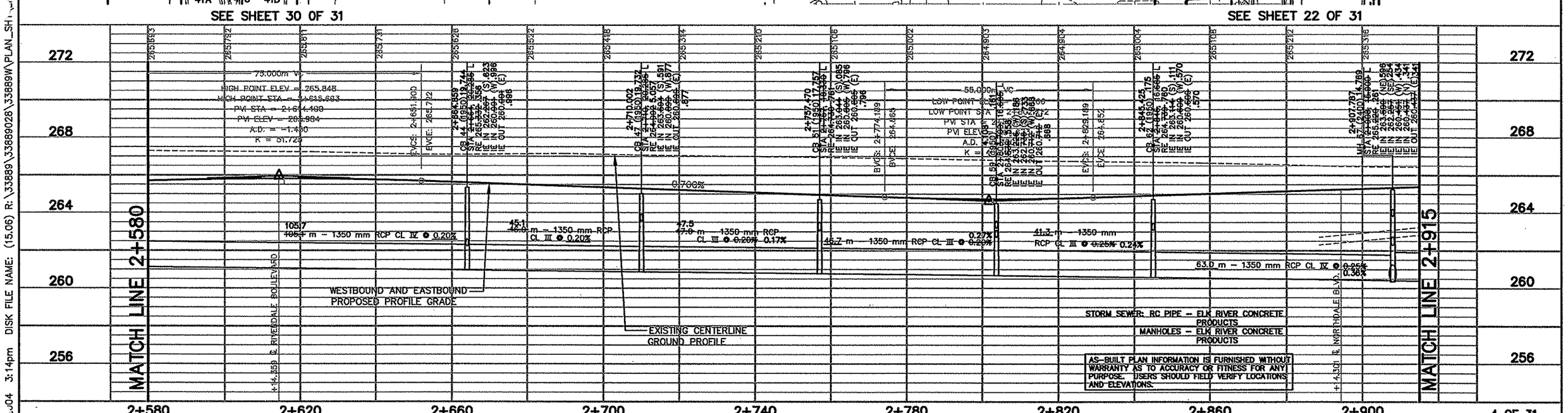
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 181 / 539

PLOT DATE: Dec 15, 2004 5:14pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\242dr02.dwg

EP DRAWINGS
PBOX
86UTIL
2CLM-W
2EPROF
2-PUT
2PLNW
2-
2-
2MHETO
2-EUT





REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	MOVED CALL-OUTS FOR CLARITY
2	JJL	3/06/00	MOVED CB No's 41A,41D,52,54,56,58.
3	JJL	3/20/00	MOVED MH 67
4	JJL	4/17/00	MOD. REQ. #10:MOVED CB 58, MOD. IE IN (NE) TO MH 67
5	TSR	2/27/04	AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242DR03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

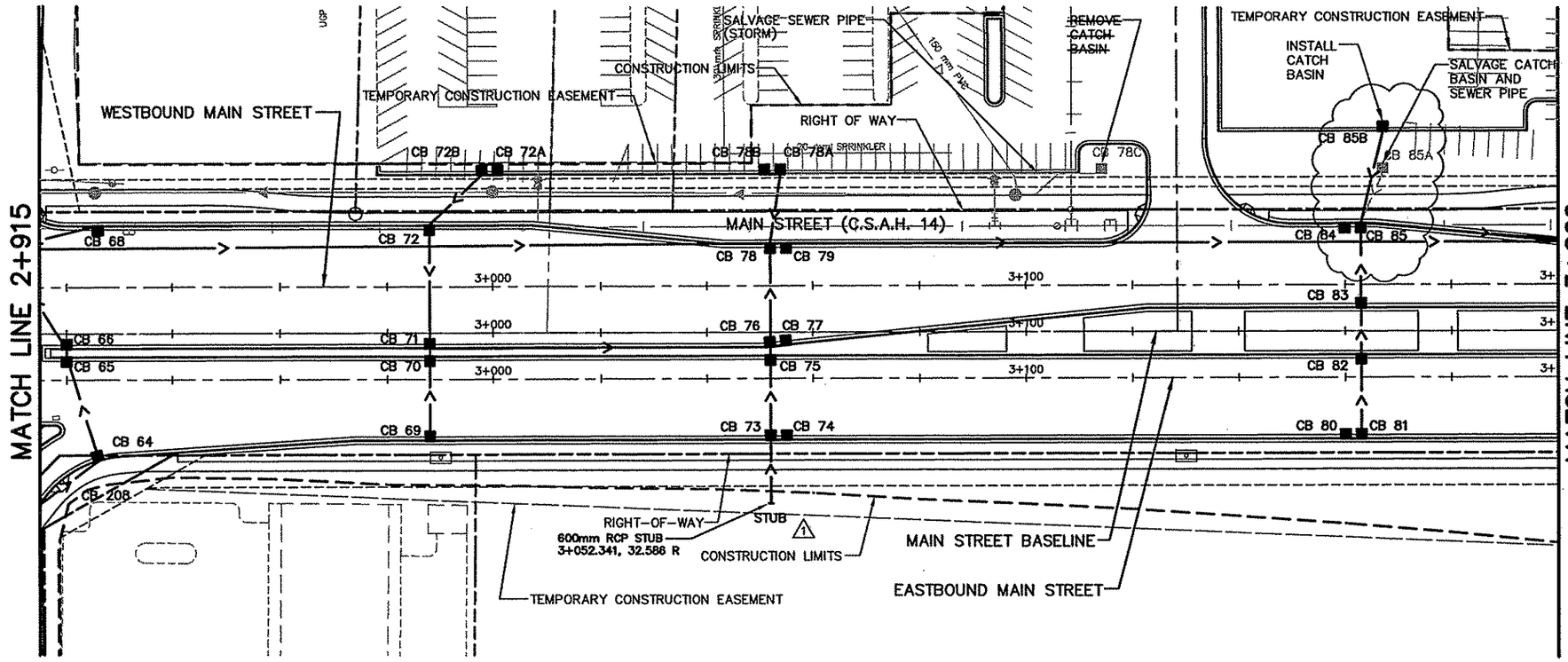
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
DRAINAGE PLAN AND PROFILE
STATION 2+580.000 TO STATION 2+915.000

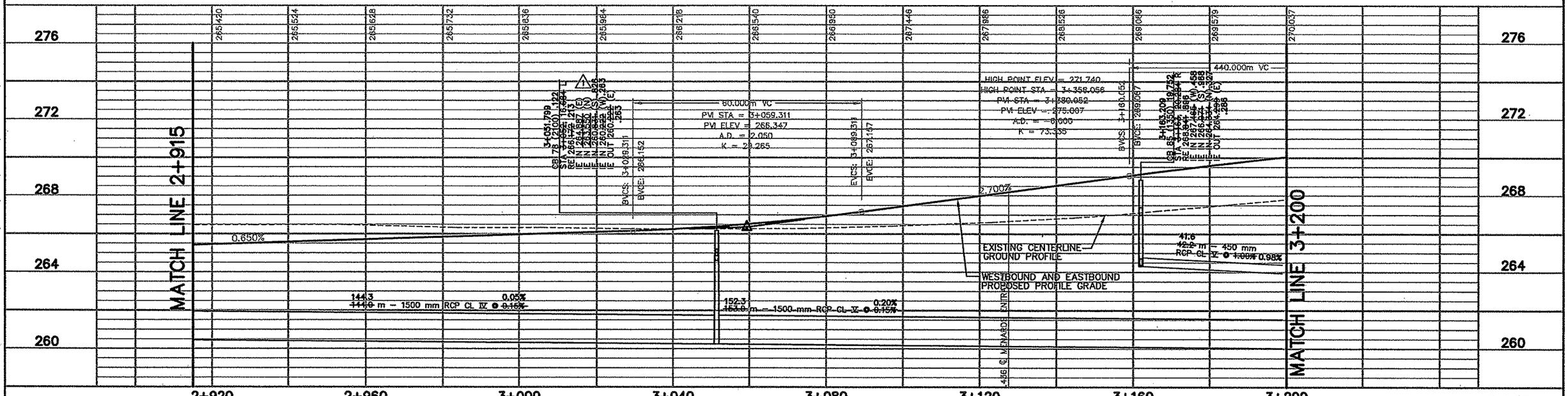
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 182 / 539

PLOT DATE: Apr 04, 2004 3:14pm DISK FILE NAME: (15.06) R:\33889\33889028\33889WPLAN_SH1_ENGRING\242dr03.dwg





HORIZONTAL SCALE IN METERS
5 0 10 20

STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTE:

ELEVATION AND VERTICAL CURVE DATA SHOWN ARE BASED ON THE EASTBOUND AND WESTBOUND ROADWAY PROFILES. STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	LABELED T.C.E.
2	JJL	2/11/00	ADDEND 1 ADDED STUB, LOWERED LATERAL SYSTEM
3	JJL	3/06/00	MOVED CB Nos 72A,74,77,78B,79,80,84.
4	JJL	3/20/00	MOVED MH 67
5	JJL	4/06/00	MOD.REQ.#8: MODIFIED SIZE OF CB 85
6	JJL	4/17/00	MOD. REQ. #10: MOVED CB 68
7	JJL	7/5/00	MOD. REQ. #36: REMOVED CB78C & CB85A, ADDED CB85B
8	TSR	2/27/04	AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242DR04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
DRAINAGE PLAN AND PROFILE
STATION 2+915.000 TO STATION 3+200.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 183 / 539

PLOT DATE: Apr 04, ...04 3:15pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH...GRING\242dr04.dwg

SEE SHEET 15 OF 31

END SAP 02-614-19
END SAP 114-020-19
BEGIN SP 0212-40 (T.H. 242=242)
BEGIN SP 114-010-11
MAIN STREET (CSAH14/TH 242)
B/L STA. 3+211.698

MATCH LINE 3+200

MAIN STREET (TH 242)

TEMPORARY CONSTRUCTION EASEMENT

242RAMPC C/L

242LEGD1 C/L

242RAMPD C/L

RIGHT-OF-WAY

CONSTRUCTION LIMITS

INSTALL SAFETY APRON

300mm CM PIPE APRON
2.0m – 300mm CM PIPE
300mm BEND – 33¾°
12.2m – 300mm CM PIPE
300mm BEND – 45°
0.5m – 300mm CM PIPE

300mm CM PIPE APRON
2.5m – 300mm CM PIPE
300mm BEND – 33¾°
21.6m – 300mm CM PIPE
300mm BEND– 45°
2.0m – 300mm CM PIPE
300mm BEND – 45°
0.5m – 300mm CM PIPE

0.5m – 300mm CM PIPE
300mm BEND – 45°
2.5m – 300mm CM PIPE
300mm BEND – 33¾°
25.9m – 300mm CM PIPE
300mm BEND – 33¾°
4.0m – 300mm CM PIPE
300mm CM PIPE APRON

0.5m – 300mm CM PIPE
300mm BEND – 33¾°
13.6m – 300mm CM PIPE
300mm BEND – 33¾°
2.5m – 300mm CM PIPE
300mm CM PIPE APRON

FES C6, FES C10, FES C9, FES C8, FES A1, FES A3, FES D8, FES D10, FES B12, FES B14

CB 93, CB 92, CB 91, CB 90, CB 89, CB 88, CB 87, CB 86, CB D9, CB A2, CB B13

WESTBOUND MAIN STREET/TH 242

MAIN STREET/TH 242 BASELINE

EASTBOUND MAIN STREET/TH 242

TH 10/47 EB

TH 10/47 WB

MATCH LINE 3+480

SEE SHEET 16 OF 31

5 0 10 20
HORIZONTAL SCALE IN METERS

STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

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NOTE:

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276
272
268
264
260

MATCH LINE 3+200

MH 93 3+205.241 (2100) 1140
STA 3+205.241 16.000 L
RIE 269.903 (S) .008
IE IN 264.877 (W) 259.863
IE OUT 259.863 .963

WESTBOUND & EASTBOUND PROPOSED PROFILE GRADE

69.0 m – 450 mm RCP CL III @ 0.75% 0.78%

2.6 m – 375 mm RCP CL III @ 0.50% 2.46%

EXISTING CENTERLINE GROUND PROFILE

CB 91 3+273.954 18.417 L
STA 3+277.141 18.086
RIE 270.942 .988
IE IN 268.877 (SE) .857
IE IN 269.969 (E) 1.545
IE OUT 268.969 (W)

CB 92 3+276.109 18.430
STA 3+279.296 18.099 L
RIE 270.956 1.011 (W)
IE OUT 269.975 .721

440.000m VC

HIGH POINT ELEV = 274.740
HIGH POINT STA = 3+356.653
PVI STA = 3+388.652
PVI ELEV = 273.007
A.D. = 6.000
K = 73.338

MATCH LINE 3+480

3+200 3+240 3+280 3+320 3+360 3+400 3+440 3+480

6 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	EXTENDED CULVERTS UNDER TH242 BRIDGE
2	JJL	3/06/00	MOVED CB No's 88 & 92, REVISED IE CB 92,
3	JJL	7/5/00	MOD. REQ. #36: REVISED MENARDS, REMOVED WALL
4	JJL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
5	TSR	2/27/04	AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: PJ/IR/JJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EDR05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Gulb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
DRAINAGE PLAN AND PROFILE
STATION 3+200.000 TO STATION 3+480.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 184 / 539

PLOT DATE: Dec 0...00 1:45pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SH1 ...edr05.dwg

DRAWINGS
TILLPND
TMXING1
APBOX
42E_DRN
42MHETO
42-EUT
42E-ALI
42E-CLM
42-ESUM

SEE SHEET 15 OF 31

SEE SHEET 11 OF 31

SEE SHEET 6 OF 31

SEE SHEET 8 OF 31

242RAMPC C/L

CONSTRUCTION LIMITS

RIGHT-OF-WAY

FES C7

FES C6

MH 95

MH 94

8+000

8+100

WESTBOUND MAIN STREET/TH 242

MAIN STREET/TH 242 BASELINE

TH 10/47 WB

TH 10/47 EB

STA AHEAD 3+229.9763
STA BACK 3+22XX.9778

CB 93

CB 92

CB 91

CB C9

FES C8

FES C10

CB 90

CB 89

FES A1

FES A3

CB A2

3+200

3+300

3+400

MAIN STREET (TH 242)

242RAMPA C/L

FES 96

20.0 m³ RIPRAP CL III

SEE STILLING POND GRADING PLAN FOR CONTINUATION

HORIZONTAL SCALE IN METERS
5 0 10 20

NOTE:
ELEVATION AND VERTICAL CURVE DATA SHOWN ARE BASED ON THE EASTBOUND AND WESTBOUND ROADWAY PROFILES. STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

272
268
264
260
256

C/L RAMP C

PROPOSED PROFILE GRADE

C/L EB TH 10/47

C/L WB TH 10/47

C/L RAMP A

EXISTING GROUND PROFILE

JACKED

98.5
~~101.1~~ m – 1500 mm RCP CL V @ ~~0.15%~~ 0.11%

58.2
~~66.7~~ m – 1500 mm RCP CL IV @ ~~0.15%~~ 0.41%

222.5
~~225.4~~ m – 1500 mm RCP CL V @ 0.15%

7 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	MOVED FES 98
2	JJL	4/06/00	MOD.REQ.#8: MOD. PIPE LENGTH: MH 95 TO FES 98
3	JJL	7/5/00	MOD. REQ. #36: REVISED MENARDS, REMOVED WALL
4	JJL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
5	TSR	2/27/04	AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: PM/IR/JJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EDR24
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

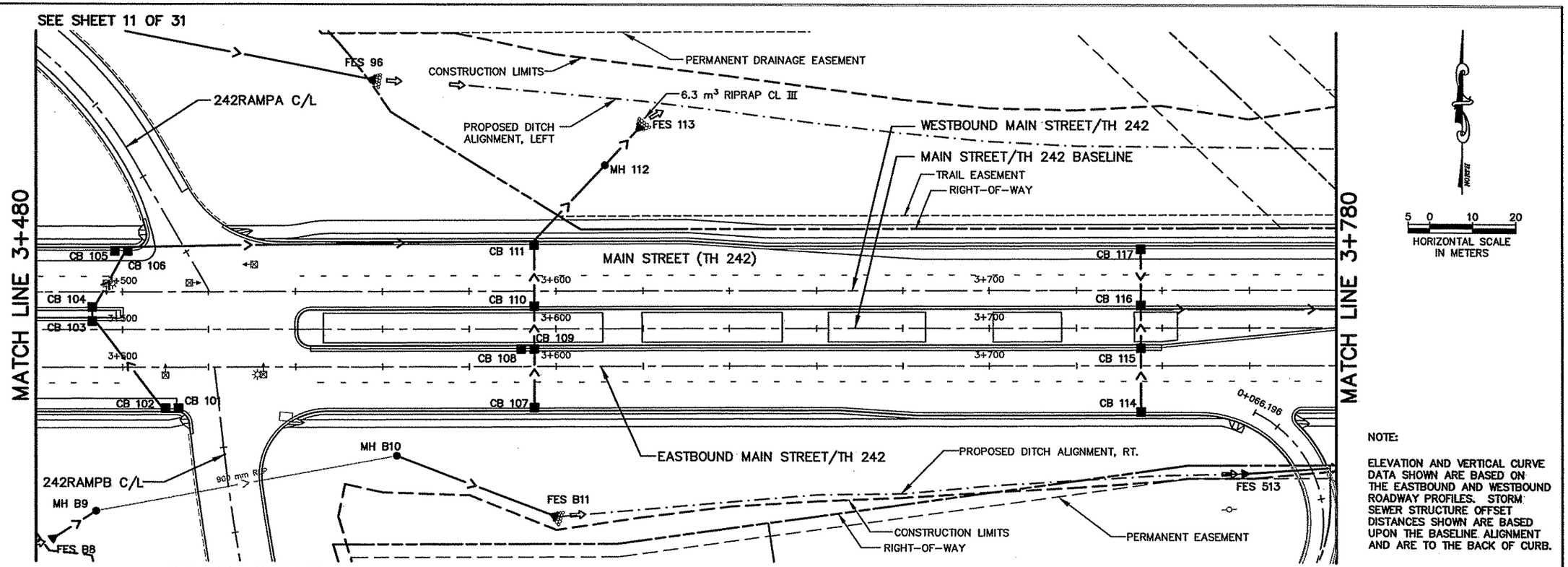
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
DRAINAGE PLAN AND PROFILE
MH 93 TO FES 96

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

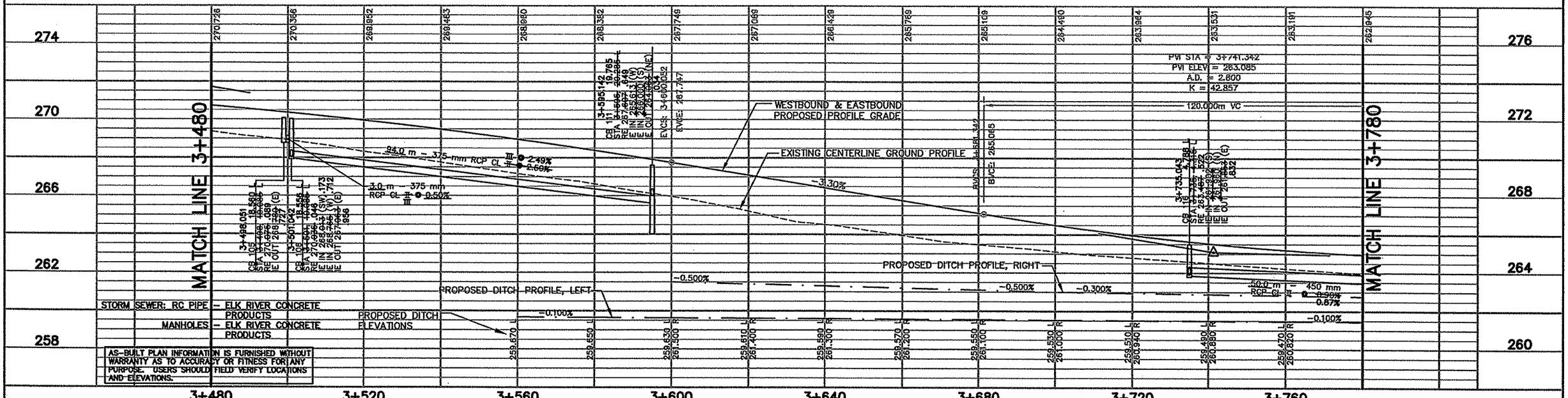
SHEET NO. 185 / 539

PLOT DATE: Dec 04, ..00 5:34pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SHT_...edr24.dwg



NOTE:

ELEVATION AND VERTICAL CURVE DATA SHOWN ARE BASED ON THE EASTBOUND AND WESTBOUND ROADWAY PROFILES. STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.



8 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CORRECTED EASEMENT LABELS
			CHANGED NOTE RE: DRAINAGE & UTIL. EASEMENT TO PERMANENT DRAINAGE EASEMENT
2	JJL	3/06/00	MOVED CB's 102,105,108. REVISED IE CB 105.
3	TSR	2/27/04	AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: IKR/JRJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EDR06
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
DRAINAGE PLAN AND PROFILE
STATION 3+480.000 TO STATION 3+780.000

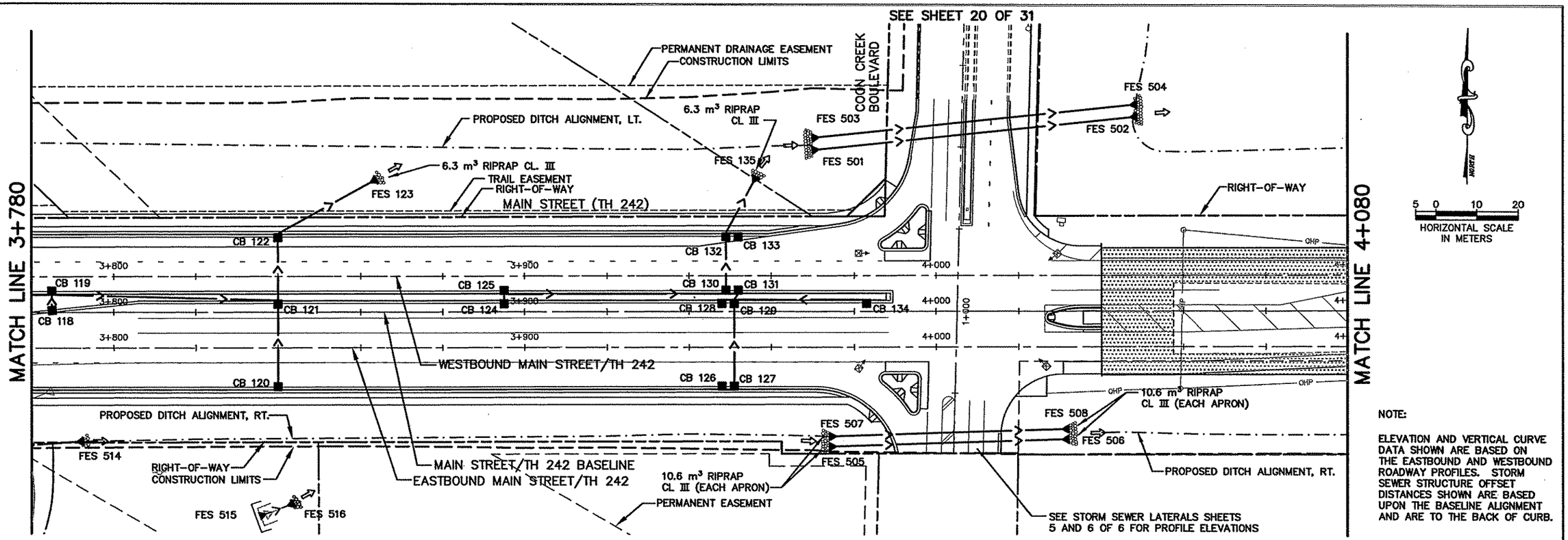
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 186 / 539

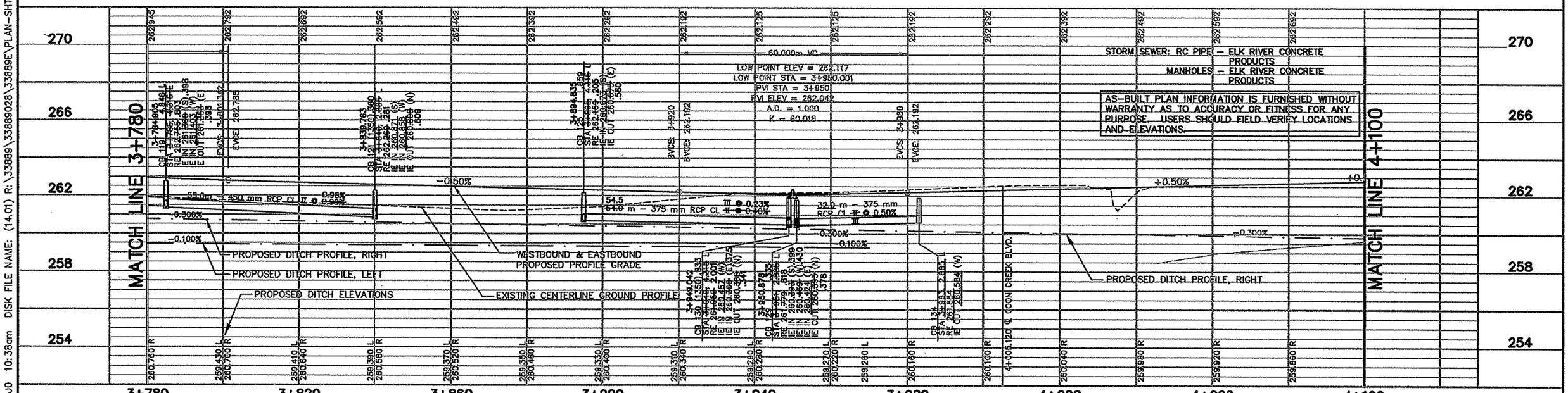
PLOT DATE: Mar 0,...00 3:27pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH...\242edr06.dwg

F DRAWINGS
ITPOND2
12PLN2A
APBOX
12E-CLM
12MHETO
12E_DRN
12
12
12E-_LN
12E-ALI
12-ESUM



NOTE:

ELEVATION AND VERTICAL CURVE DATA SHOWN ARE BASED ON THE EASTBOUND AND WESTBOUND ROADWAY PROFILES. STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED D/W 3+852.540, DEL. FES 509, 510, 511 & 512
			ADDED RIPRAP TO FES 505 & 507
			LABELED EASEMENTS & R/W. CHANGED NOTE RE: DRAIN. & UTIL. EASEMENT TO PERM. DRAINAGE EASEMENT
2	JJL	3/06/00	MOVED CB NO.s 126,128,131,133. REVISED IE CB 130.
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PM/IR/JJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EDR07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
DRAINAGE PLAN AND PROFILE
STATION 3+780.000 TO STATION 4+100.00

CITY PROJECT 98-20

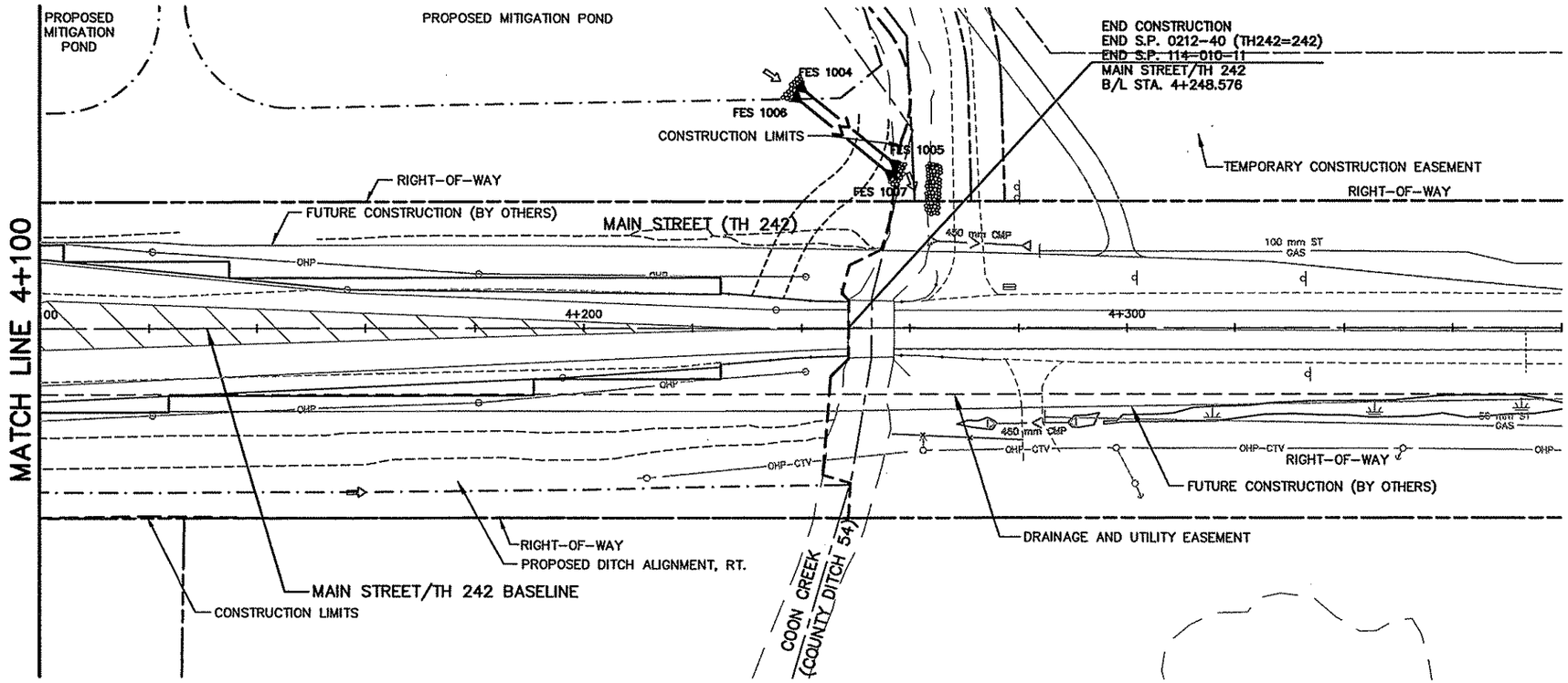
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

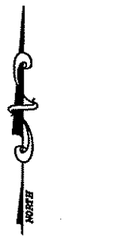
SHEET NO. 187 / 539

9 OF 31

PLOT DATE: Jul 11, 2000 10:38am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\s+42edr07.dwg

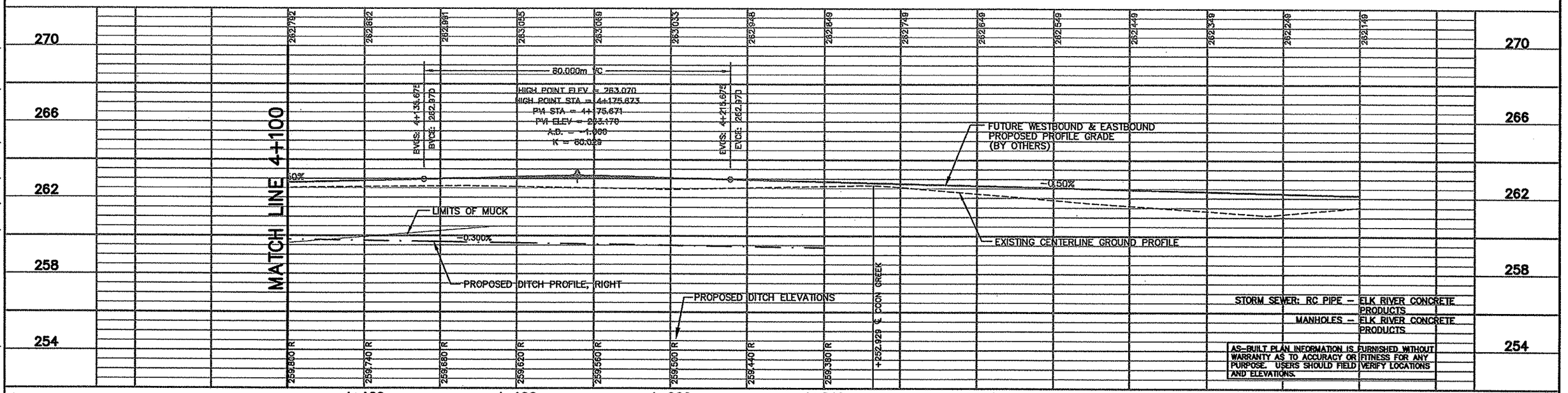
ITPOND2
I2PLN2A
\PBOX
I2E-CLM
I2MHETO
I2E_DRN
I2E...
I2E-ALI
I2-ESUM





NOTE:

ELEVATION AND VERTICAL CURVE DATA SHOWN ARE BASED ON THE EASTBOUND AND WESTBOUND ROADWAY PROFILES. STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.



STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

10 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO EB & WB ALIGNMENTS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PM/IR/JJ | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242EDR08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
DRAINAGE PLAN AND PROFILE
STATION 4+100.000 TO STATION 4+380.000

CITY PROJECT 98-20

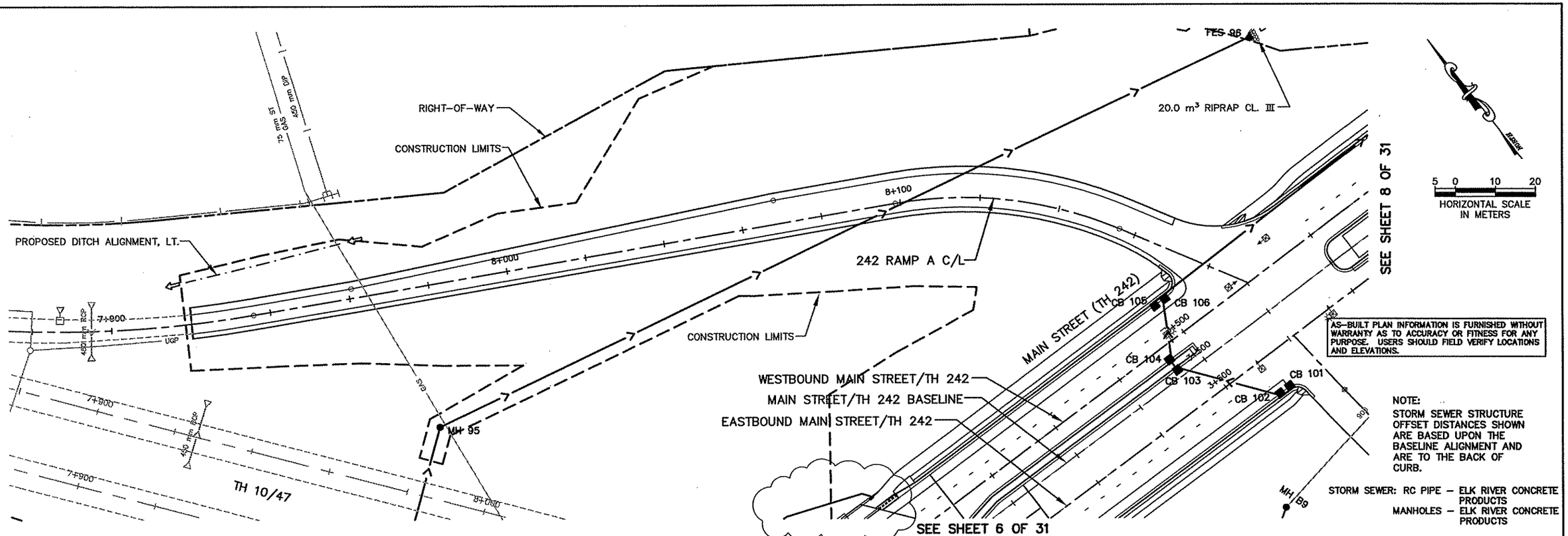
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

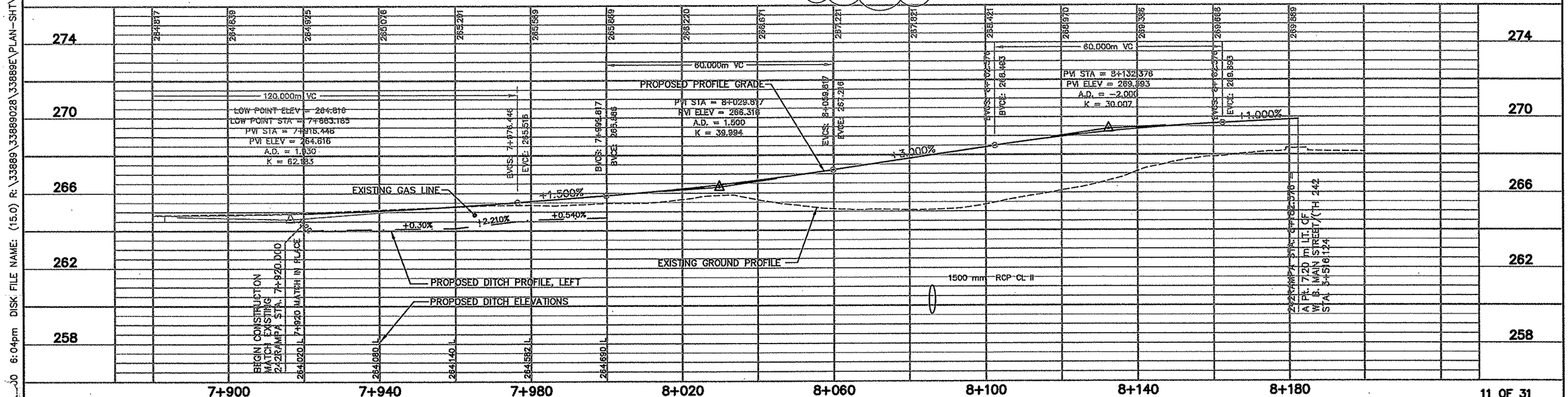
SHEET NO. 188 / 539

PLOT DATE: Jan 07, ...00 1:09pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT...-SH1 ...-2edr08.dwg

REF DRAWINGS

APBOX
12MHETO
12E_DRN
12-EUT
12E-SUP
12EPROF
12
12
12E-ALI
12-ESUM





11 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	MOVED FES 96
2	JJL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EDR12
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Bielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
DRAINAGE PLAN AND PROFILE
STATION 7+920.000 TO STATION 8+181.683

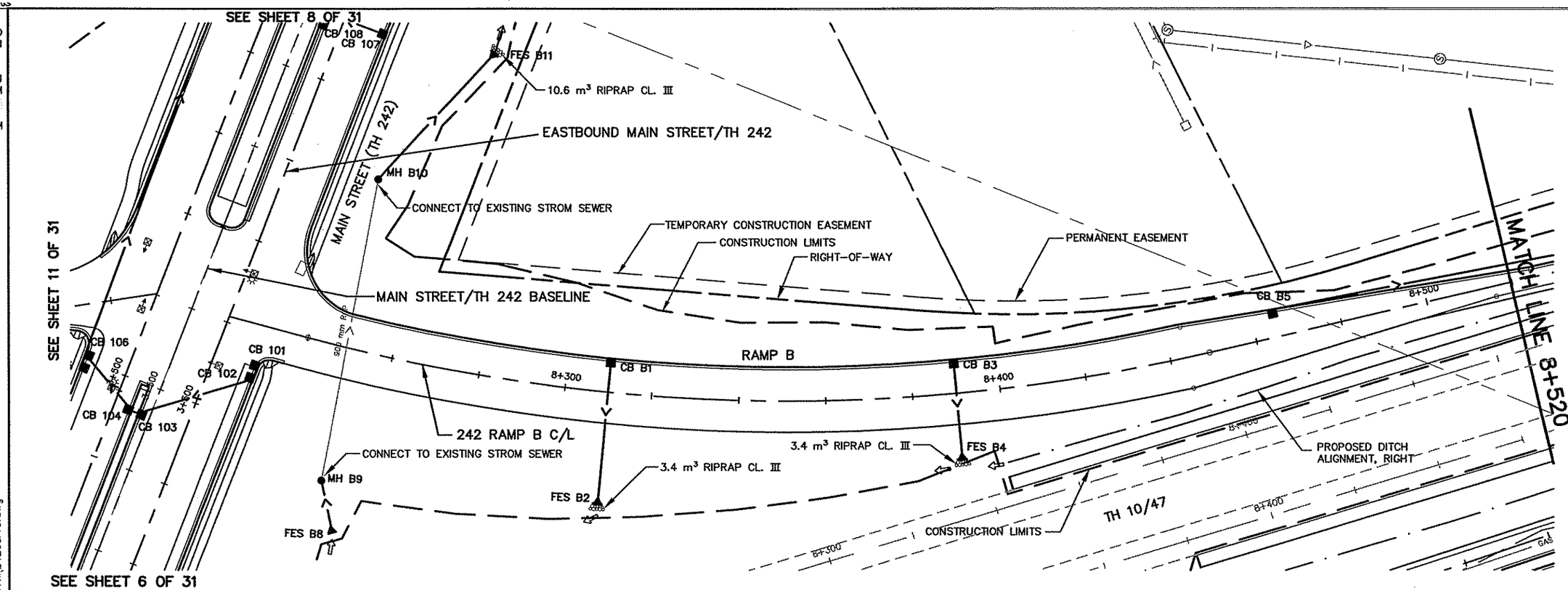
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 189 / 539

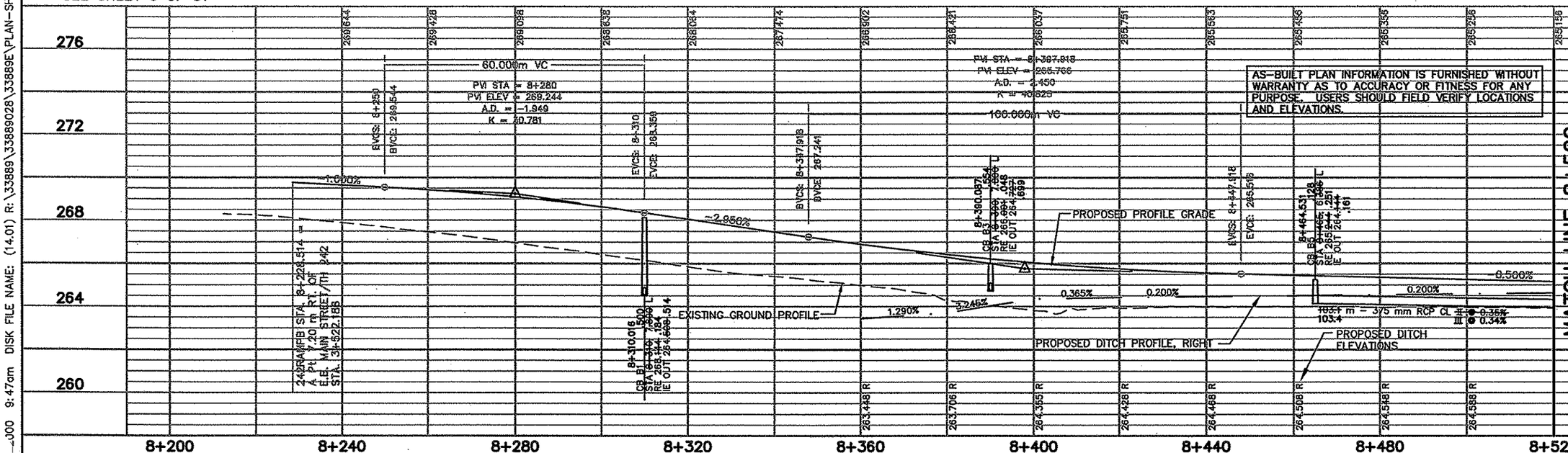
PLOT DATE: Dec 04, 00 6:04pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SHT\2-26dr12.dwg

EF DRAWINGS
\PBOX
I2MHETO
I2E_DRN
I2-PUT
I2-EUT
I2E-PLN
I2E-M
I2
I2L
I2-ESUM



NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

STORM SEWER
RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS



12 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED NOTE: MH B9 & B10 CONNECT TO EXIST. STORM SEWER.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK
DWG. NAME: 242EDR13
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B
DRAINAGE PLAN AND PROFILE
STATION 8+221.272 TO STATION 8+520.000

CITY PROJECT 98-20

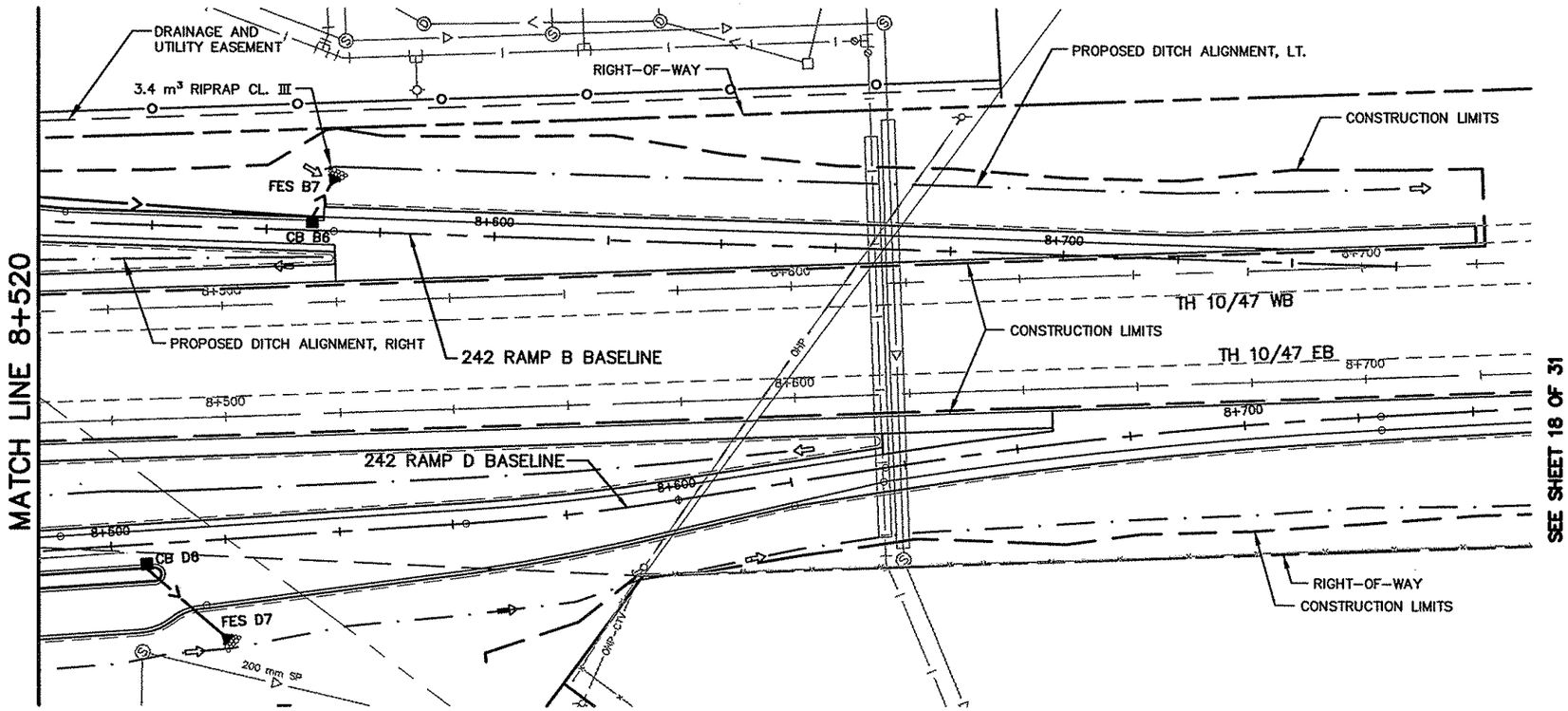
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

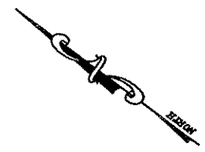
SHEET NO. 190 / 539

PLOT DATE: Mar 0,...000 9:47am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh...+2edr13.dwg

REF DRAWINGS

\PBOX
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12MHETO
12-EUT
12EPROF
12E-PLN
12F
12
12-

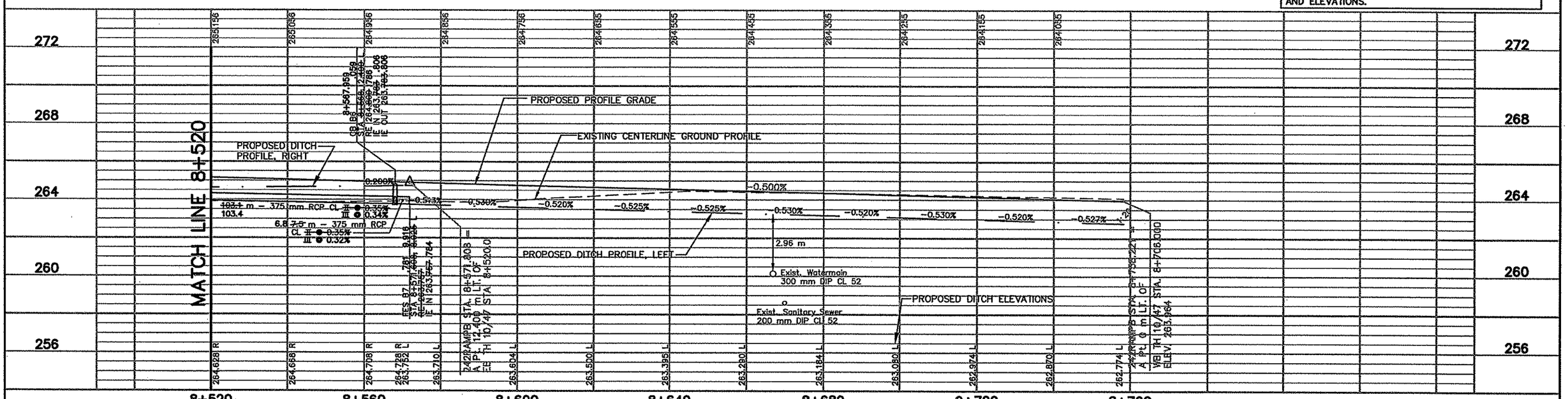




STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



13 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR | DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK | DWG. NAME: 242EDR14
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B, RAMP B ACCESS AREA
DRAINAGE PLAN AND PROFILE
STATION 8+520.000 TO STATION 8+780.000

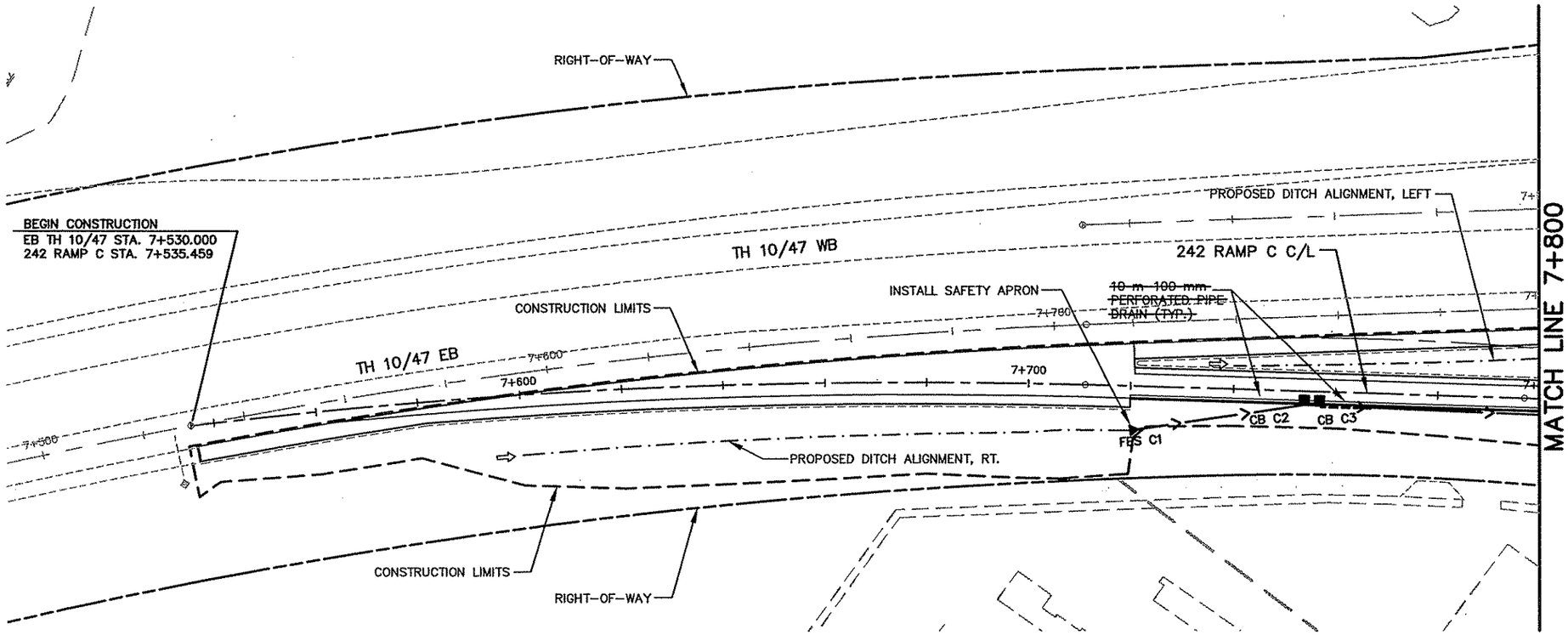
CITY PROJECT 98-20

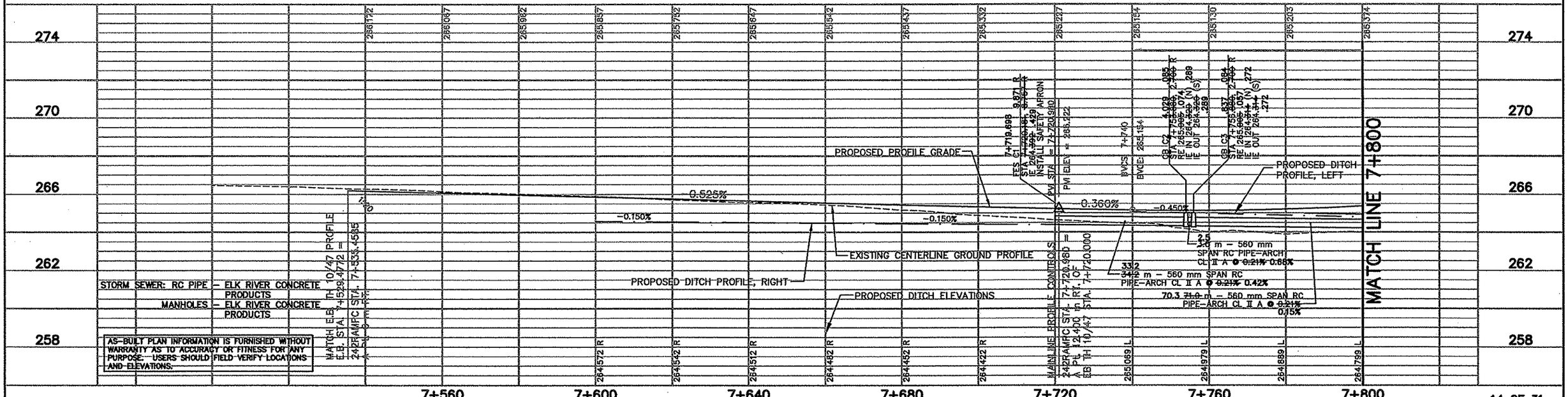
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 191 / 539

PLOT DATE: Jan 0, ...J00 4:02pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh...+2edr14.dwg

\PBOX
TCHALI
2W–MEL
2–PUT
2E_DRN
2MHFTO
2E–ALI
2EPROF
2E–ALI
2–ESUM





STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO S.P. No.s FOR RAMP C
			ADDED SAFETY APRON TO FES C1
2	JJL	3/06/00	MOVED CB C3. REVISED IE CB C3.
3	JJL	4/12/00	MOD.REQ.#9: MODIFIED LOCATION OF FES C1
4	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK
DWG. NAME: 242EDR15
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP C ACCESS AREA, 242 RAMP C
DRAINAGE PLAN AND PROFILE
STATION 7+720.000 TO STATION 7+800.000

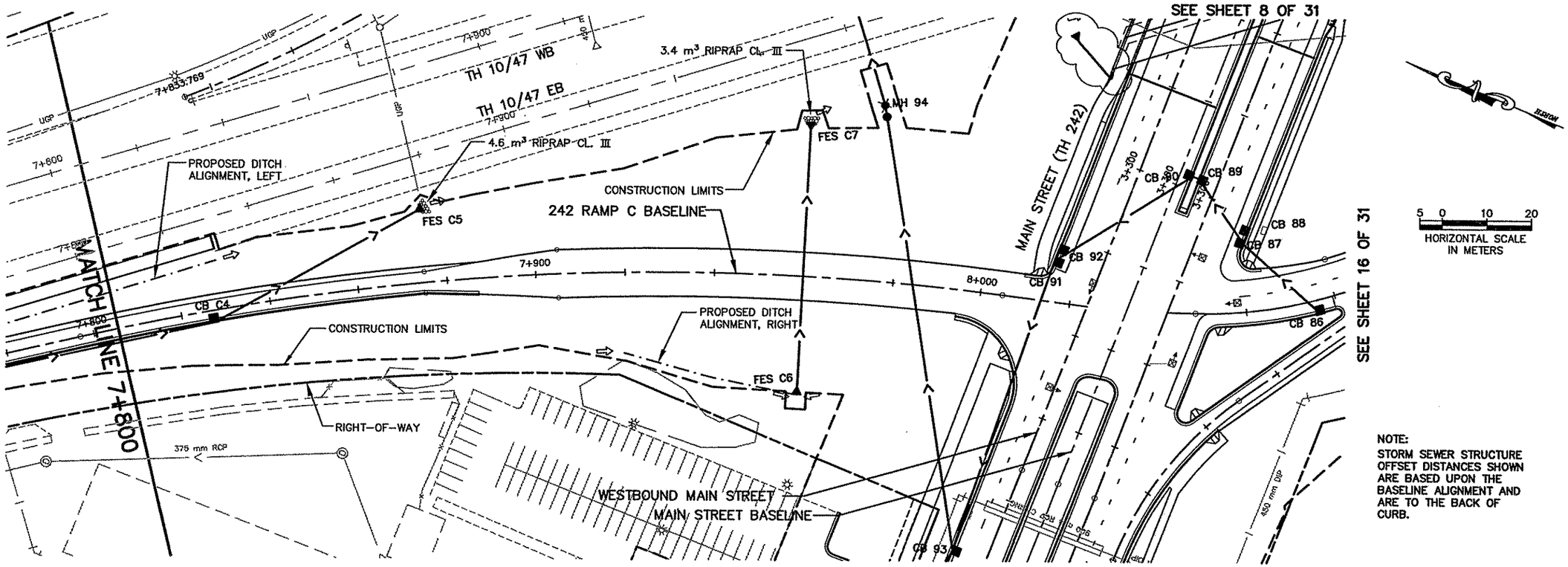
CITY PROJECT 98–20

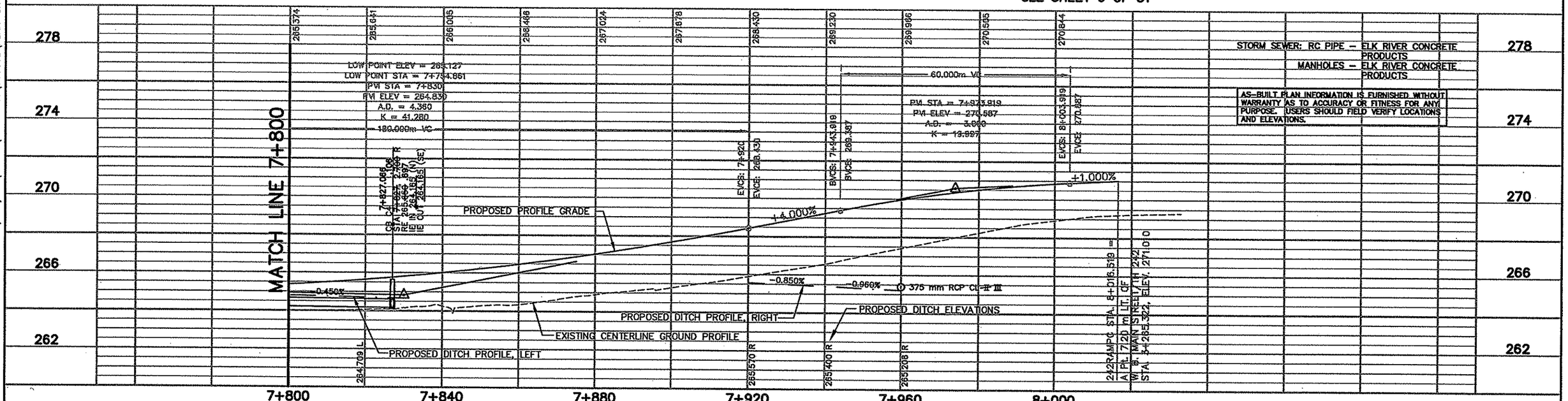
S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 192 / 539

PLOT DATE: Apr 12 7:14am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN–SH sdr15.dwg

REF DRAWINGS
\PBOX
\2PLNW
\2E_DRN
\2MHETO
\2-EUT
\2CLM-W
\2E-ALI
\2-ESUM





15 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	3/06/00	REVISED IE CB C4.
2	JJL	7/5/00	MOD. REQ. #38: REVISED MENARDS, REMOVED WALL
3	JJL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK
DWG. NAME: 242EDR16
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C
DRAINAGE PLAN AND PROFILE
STATION 7+800.000 TO STATION 8+015.901

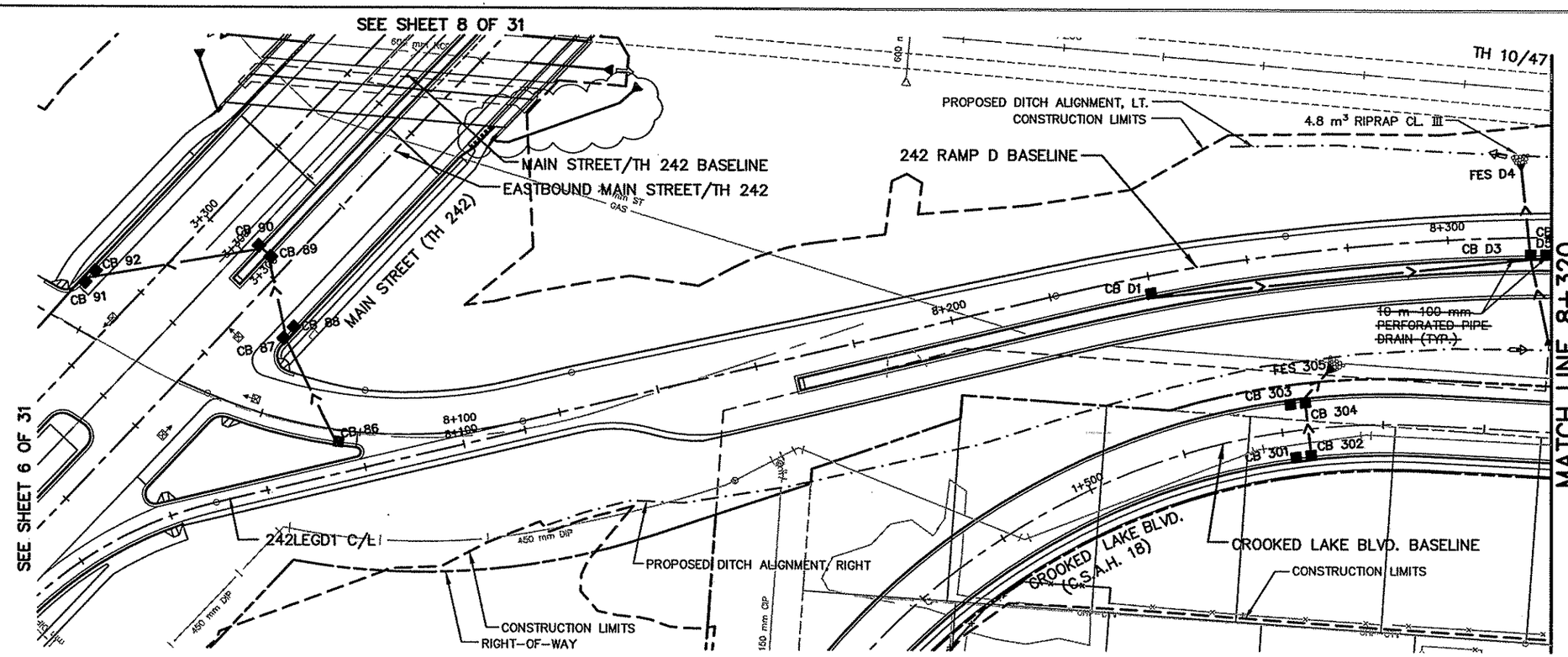
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 193 / 539

PLOT DATE: Dec ..000 11:05am DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SH..+2edr16.dwg

REF DRAWINGS
42CLM–W
42E–CLM
APBOX
42–PUT
42–ALIW
42PLNW
42E–SUP
42EPROF
42E–PLN
42E–ALI
42–ESUM

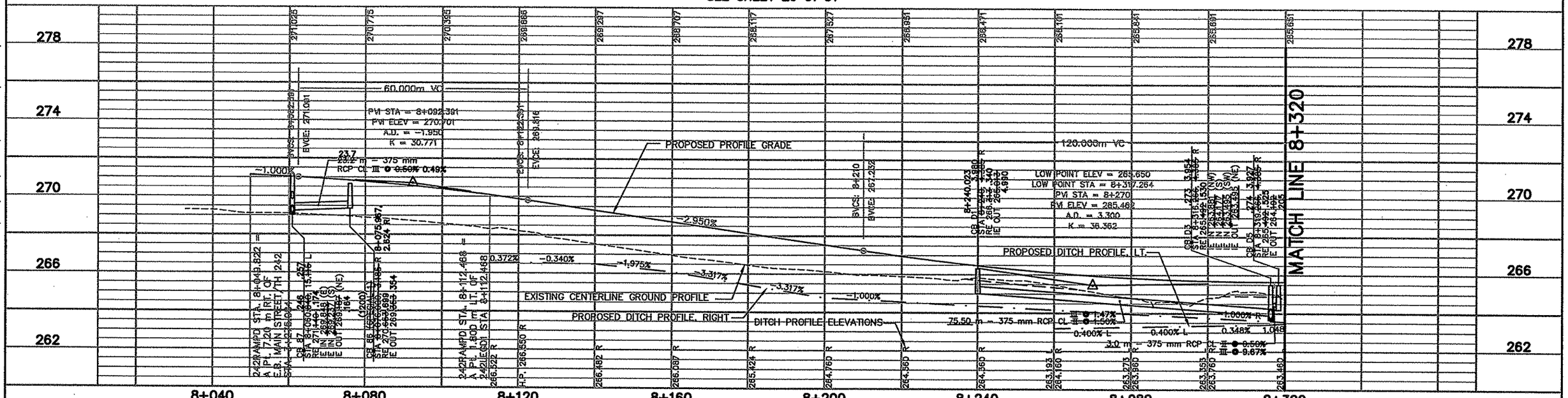


5 0 10 20
HORIZONTAL SCALE IN METERS

STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	3/06/00	MOVED CB D5. REVISED IE CB D3.
2	JJL	4/06/00	MOD.REQ.#8: MOVED FES D4
3	JJL	4/12/00	MOD.REQ.#9: REV. LT. D.G. 8+240–8+340, REV. IE CB D3
4	JJL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE.
5	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK
DWG. NAME: 242EDR17
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
DRAINAGE PLAN AND PROFILE
STATION 8+049.822 TO STATION 8+320.000

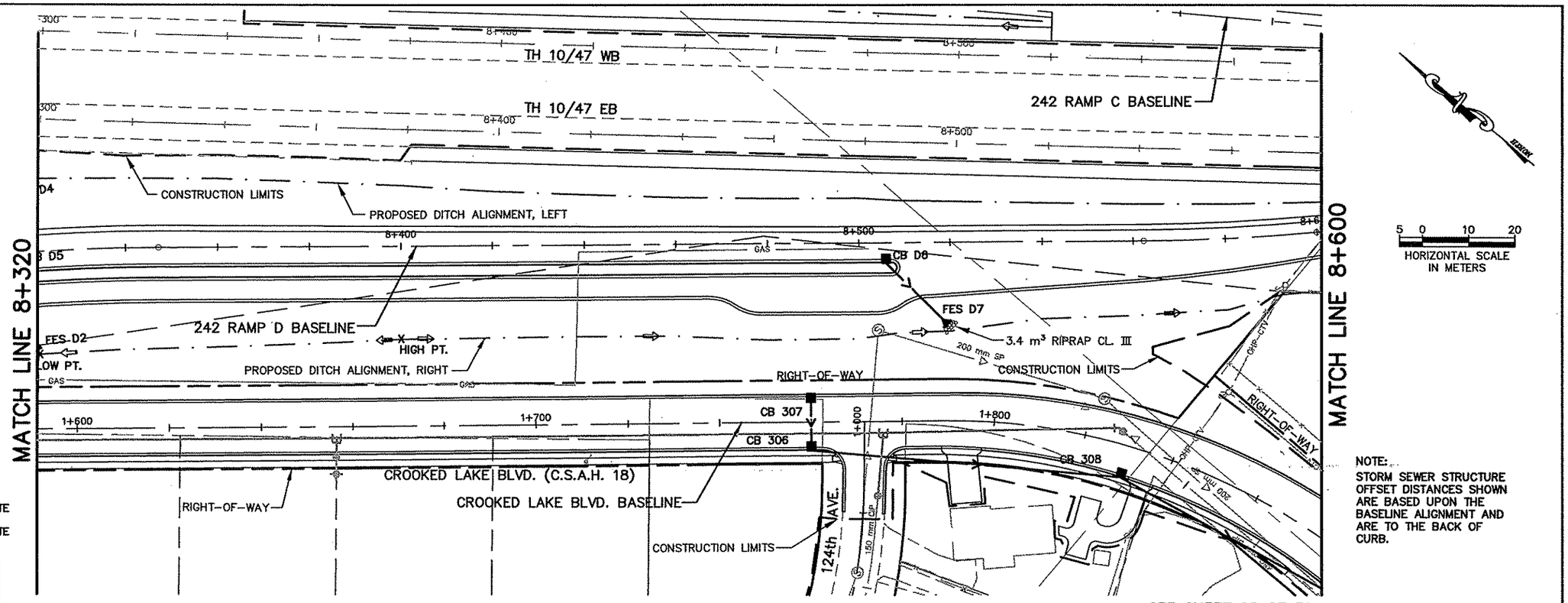
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 194 / 539

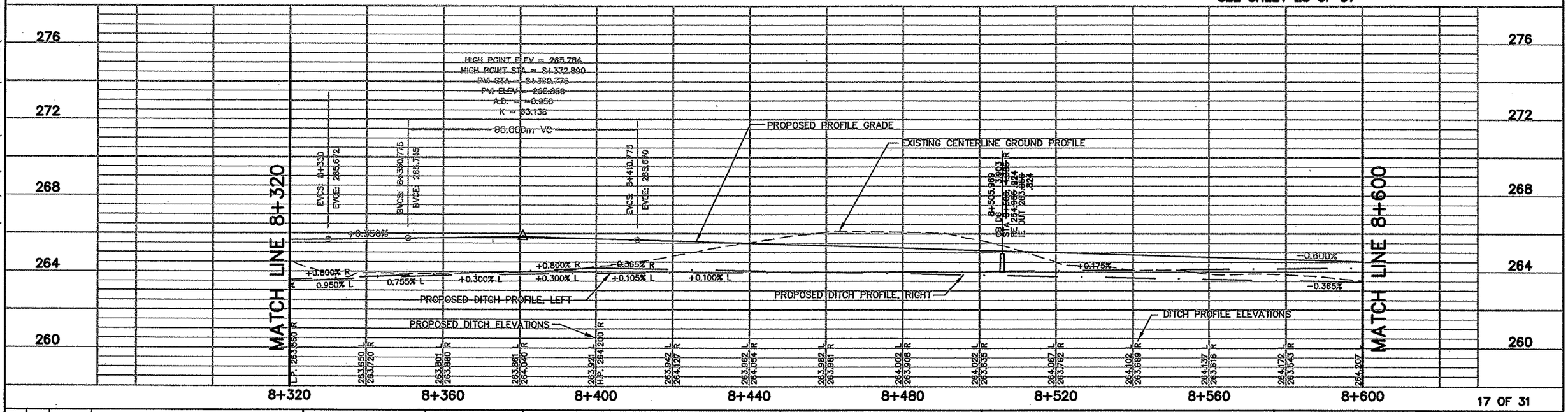
PLOT DATE: Dec ..2000 9:56am DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-Sh...42edr17.dwg

DRAWINGS
42CLM-W
APBOX
42-PUT
42-ALIW
42E_DRN
42PLNW
42M[illegible]TO
42[illegible]
42[illegible]
42E-CLM
42EPROF
42E-ALI
42-ESUM



STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



17 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADJUSTED LEADERS FOR LIMITS & R/W
			ADDED RAMP D PATROL PAD, MOVED FES D7
2	JJL	4/12/00	MOD.REQ.#9: REV. LT. D.G. B+240–B+340 FOR FES D4
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR
DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK
DWG. NAME: 242EDR18
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Fiedler

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
DRAINAGE PLAN AND PROFILE
STATION 8+320.000 TO STATION 8+600.000

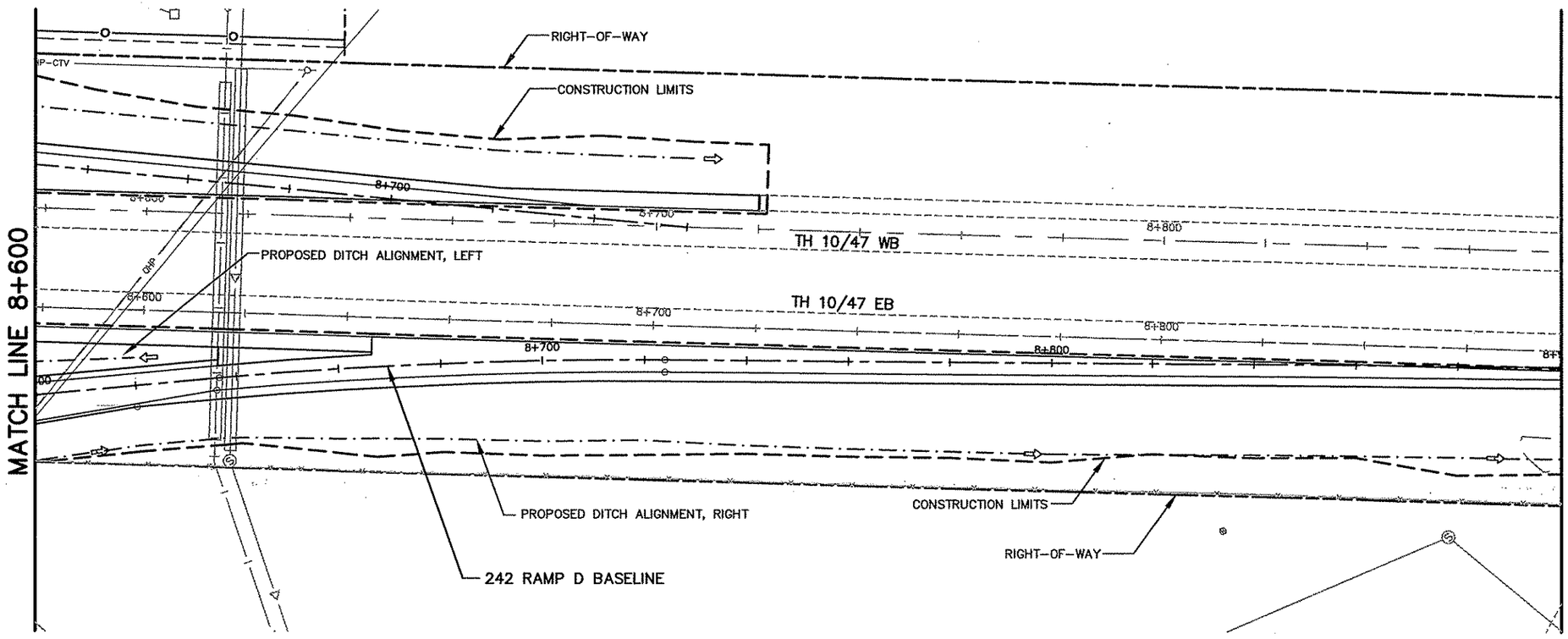
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 195 / 539

PLOT DATE: Apr 1..000 7:42am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh...v42edr18.dwg

ER DRAWINGS
APBOX
12E_DRN
12PLNW
12MHETO
12-EUT
12E-PLN
12E-CLM
12
12
12-ESUM

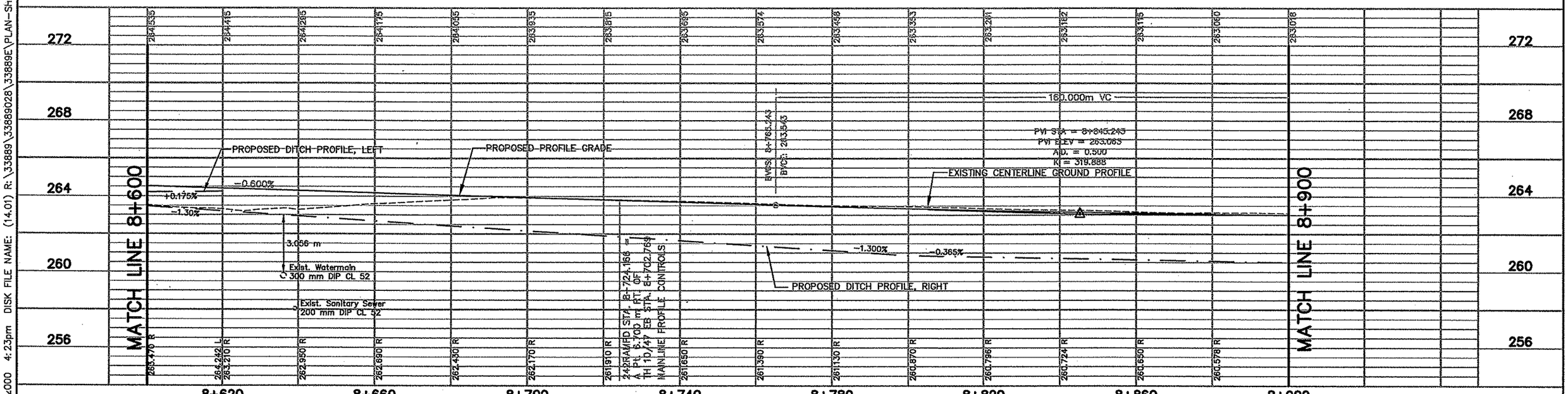




STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/IKR | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242EDR19
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D, RAMP D MERGE AREA
DRAINAGE PLAN AND PROFILE
STATION 8+600.000 TO STATION 9+018.139

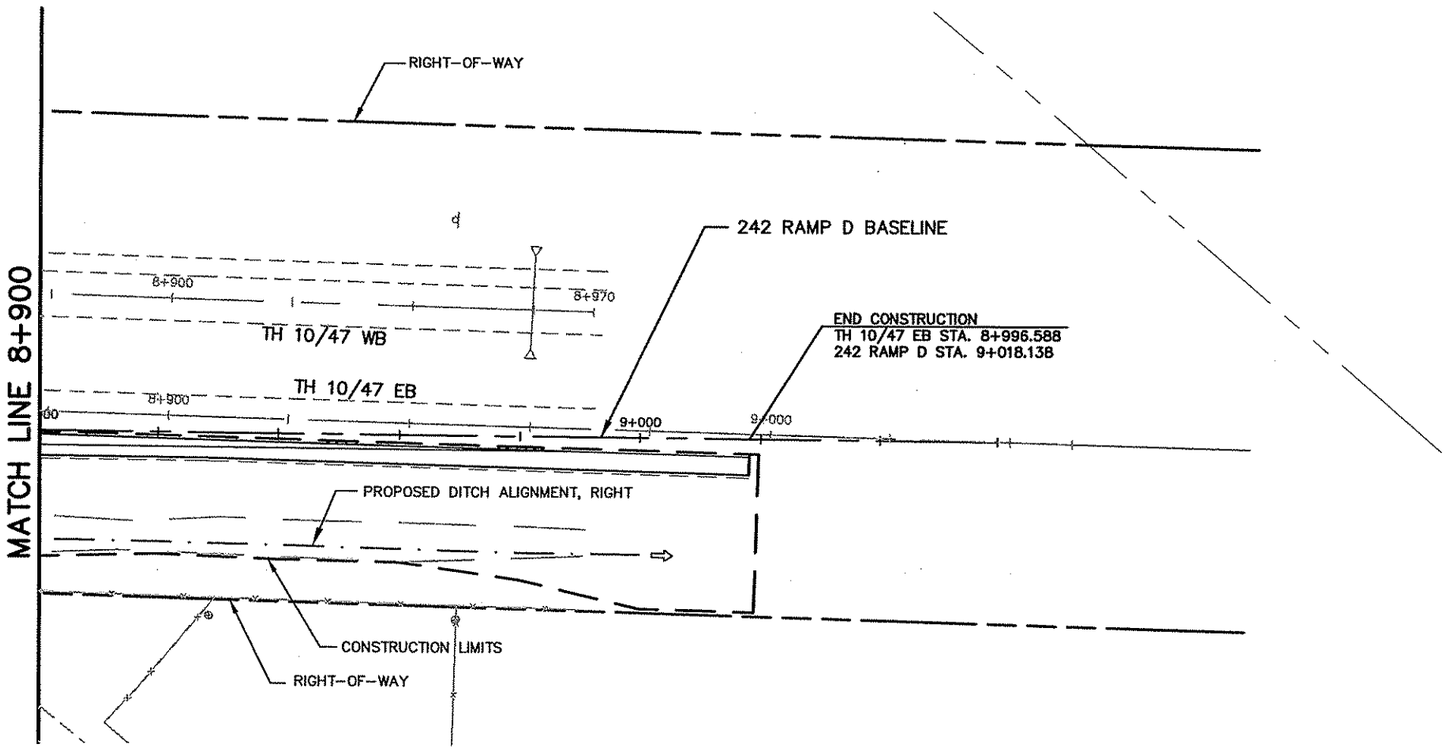
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 196 / 539

PLOT DATE: Jan 04, 2000 4:23pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH\...242edr19.dwg

ELK DRAWINGS
APBOX
42E_DRN
42PLNW
42MHETO
42-EUT
42E-SUP
42E-PLN
42
42
42E-ALI
42-ESUM

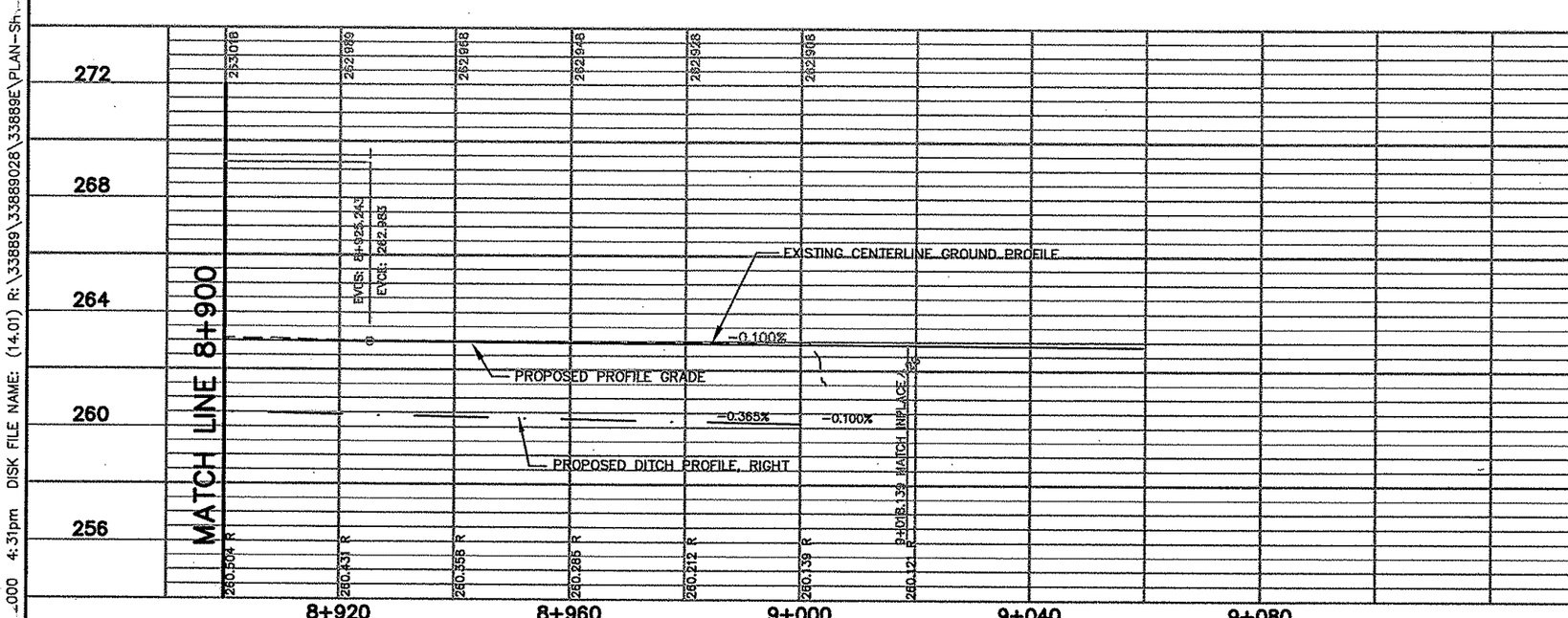




STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.



19 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO S.P. Nos FOR RAMP D
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242EDR20
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D MERGE AREA
DRAINAGE PLAN AND PROFILE
STATION 8+900.000 TO STATION 9+018.139

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 197 / 539

PLOT DATE: Jan 0-...4000 4:31pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh...42edr20.dwg

ITPOND2
APBOX
42E_DRN
42E-CLM
42-ALIW
OONPRFI
42E-PLN
42-
42-
42-
42-EUT

SEE SHEET 9 OF 31

CB 126 CB 128 CB 130 CB 132
CB 127 CB 129 CB 131 CB 133
FES 135
18.6 m³ RIPRAP CL III (EACH APRON)
DRAINAGE AND UTILITY EASEMENT
FES 501 FES 503
COON CREEK BOULEVARD BASELINE
CONSTRUCTION LIMITS
RIGHT-OF-WAY
BEGIN SAP 02-618-24
STA. 1+200.000
FES 505 FES 507
MAIN STREET (TH 242)
CB 134
4+000
1+060
1+100
1+220
CB 402
CB 403
COON CREEK BOULEVARD (C.S.A.H. 18)
OHP
MAINSTREET/TH 242 BASELINE
FES 508
FES 506
SEE STORM SEWER LATERAL PROFILE SHEETS
5 & 6 OF 6 FOR PROFILE ELEVATIONS
RIGHT-OF-WAY
FES 502
FES 504
CONSTRUCTION LIMITS
EASTBOUND MAIN STREET/TH 242
WESTBOUND MAIN STREET/TH 242
18.6 m³ RIPRAP CL III (EACH APRON)
PROPOSED MITIGATION POND
SEE SHEETS 9 & 10 OF 31

MATCH LINE 1+240

NORTH

5 0 10 20
HORIZONTAL SCALE
IN METERS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

LOW POINT ELEV = 262.033
LOW POINT STA = 0+0978.817
PVI STA = 0+0975.052
PVI ELEV = 261.363
A.D. = 2.720
K = 6.61
18.000m VC
EVCS: 0+960.052
E/OE: 262.050
BVCS: 0+984.052
EVCE: 262.185
-0.72%
+2.03%
+2.03%
+2.03%
-2.0%
+1.325%
-1.176%
EXISTING CENTERLINE GROUND PROFILE
PROPOSED PROFILE GRADE
STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
MANHOLES - ELK RIVER CONCRETE PRODUCTS
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.
0+958.871 BEGIN CONSTRUCTION
EASTBOUND MAIN ST/TH 242
WESTBOUND MAIN ST/TH 242
1+051.518 END CONSTRUCTION
+200 BEGIN RECONSTRUCTION
262.770
262.535
262.360
268
264
260
256
252
0+080
1+000
1+040
1+080
1+120
1+160
1+200
1+240

20 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RIPRAP TO FES 501 & 503
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK
DWG. NAME: COONDR01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 328.16
Kevin P Bulb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
DRAINAGE PLAN AND PROFILE
STATION 1+000.000 TO STATION 1+240.000

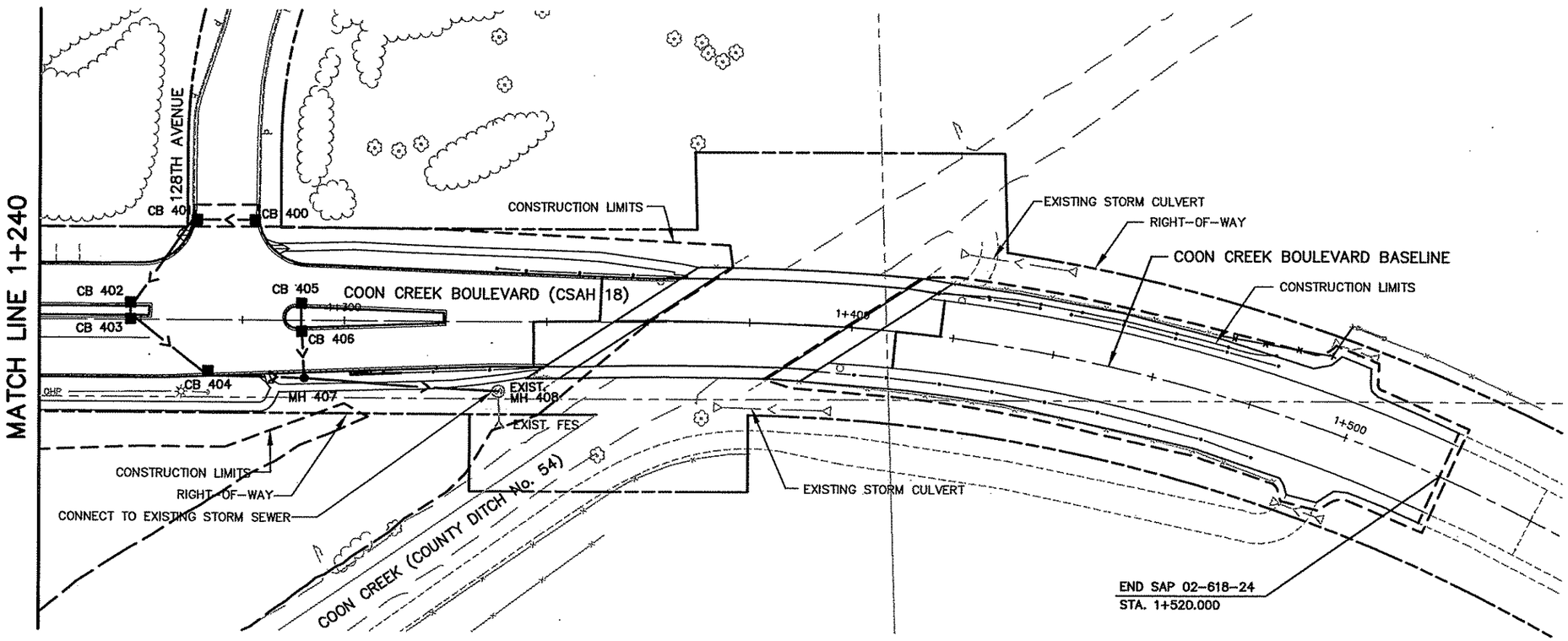
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 198 / 539

PLOT DATE: Jul 11, 2000 9:29am DISK FILE NAME: (14.01h (Hardware Lock)) R:\33889\33889028\PLAN-SHT\CoonDR01.dwg

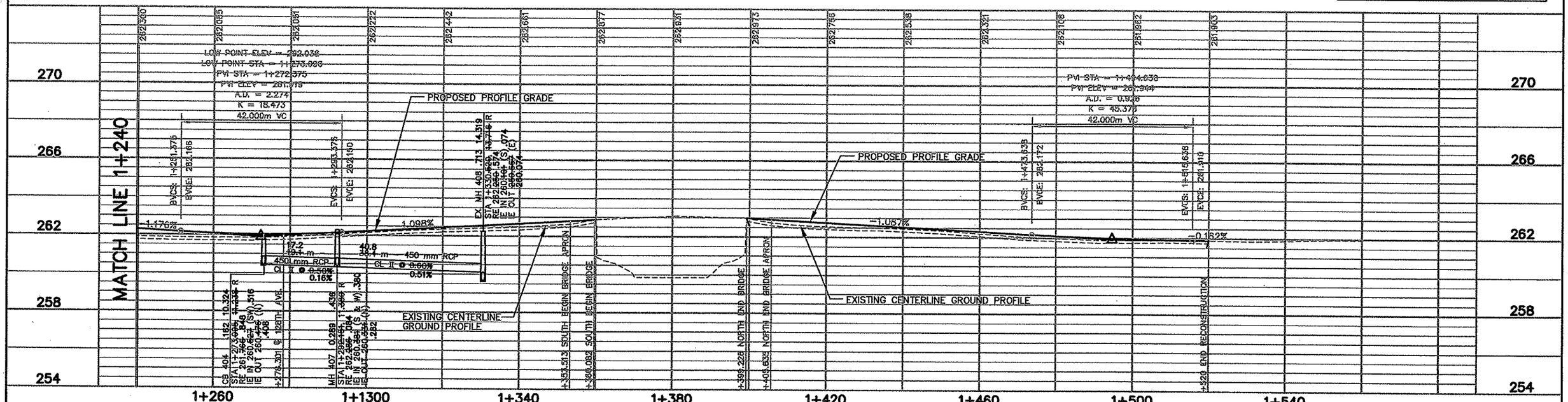
DRAWINGS
APBOX
42E-PLN
42E-CLM
42E_DRN
42E-ALI
OONPRFI
42-FSUM



STORM SEWER: RC PIPE -- ELK RIVER CONCRETE PRODUCTS
MANHOLES -- ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	12/30/99	ADJUSTED RE FOR CB 404, ADDED NOTE: CONNECT TO EXIST. STORM SEWER AT EXIST. CB 408
2	JJL	5/15/00	MOD.REQ.#28: MOVED CB 404
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/JKR
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: COONDR02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
DRAINAGE PLAN AND PROFILE
STATION 1+240.000 TO STATION 1+520.000

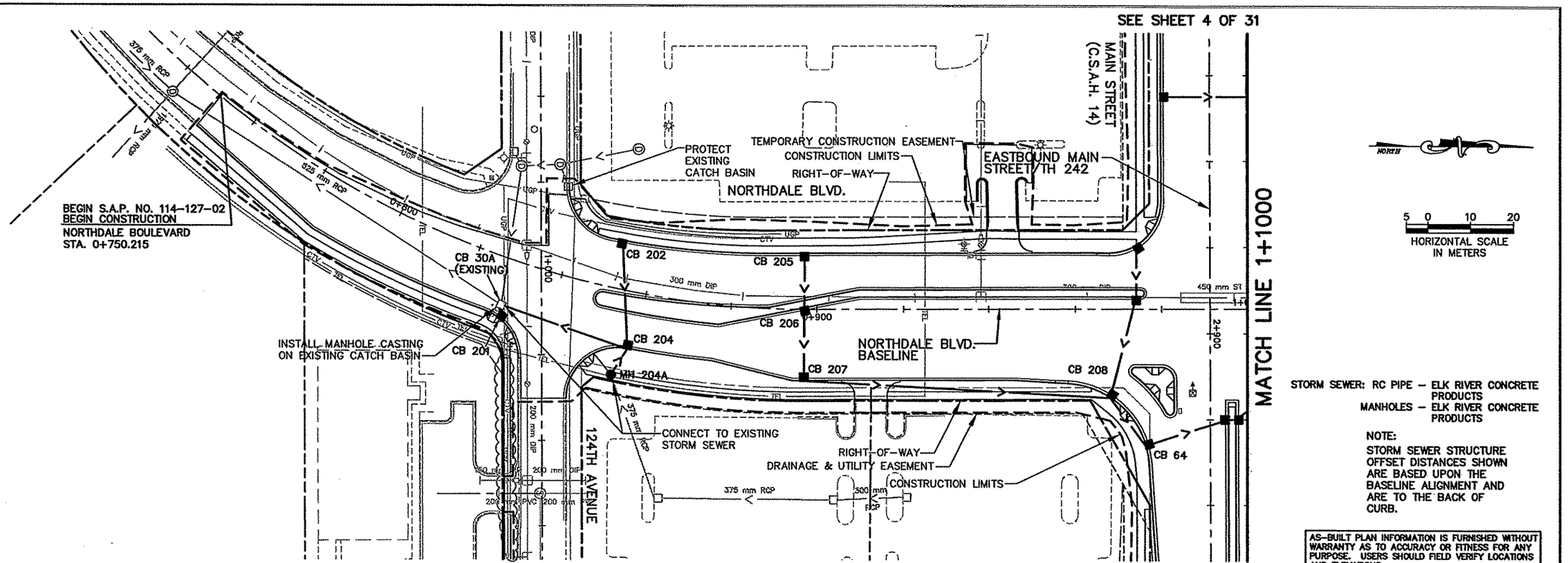
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 199 / 539

PLOT DATE: May 300 10:36am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-S\oonDR02.dwg

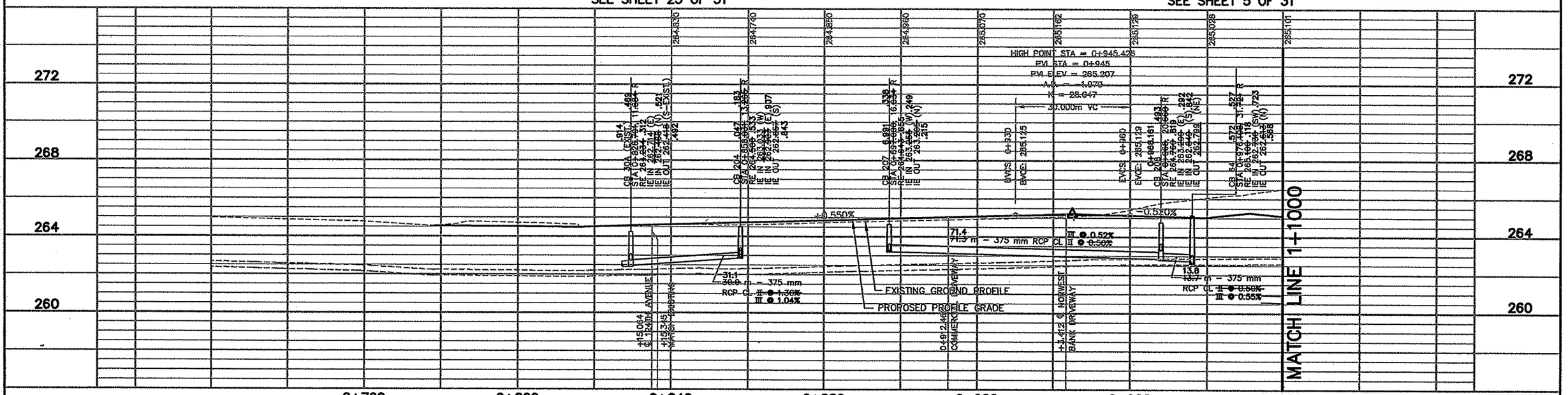
J DRAWINGS
PBOX
2CLM-W
2-PUT
ALEPRF
2PLNW
2-ESUM
2-
2N
2-L...



STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED S.A.P. No. & BEGIN STA. FOR NORTHDALE BLVD.
			CLARIFIED NOTE CONNECT TO EXISTING CB 30A
2	JJL	6/01/00	MOD.REQ.#27: MOVED CB206, DELETED CB203
3	JJL	8/09/00	MOD.REQ.#56: REM. WALK 124th 1+000.8-1+117.4, RT
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK
DWG. NAME: DALEDR01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

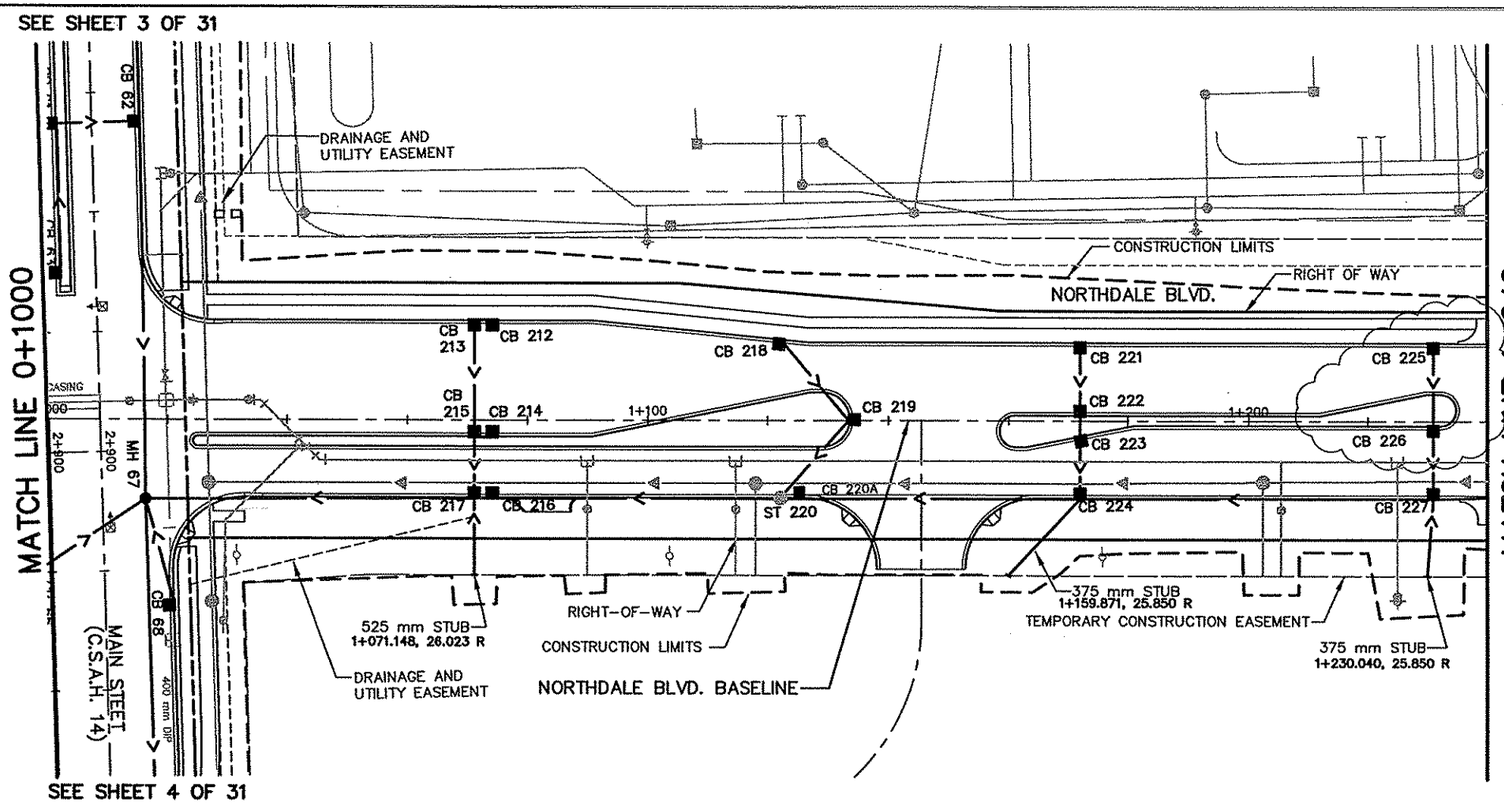
MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
DRAINAGE PLAN AND PROFILE
STATION 0+760.000 TO STATION 1+000.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

PLOT DATE: Dec 1x, 04 8:56am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...GRING\Daledr01.dwg

PBOX
86UTIL
2CLM-W
2-PUT
2-ALTW
ALEPRF
86S
2F
2-
2MHETO
2-EUT



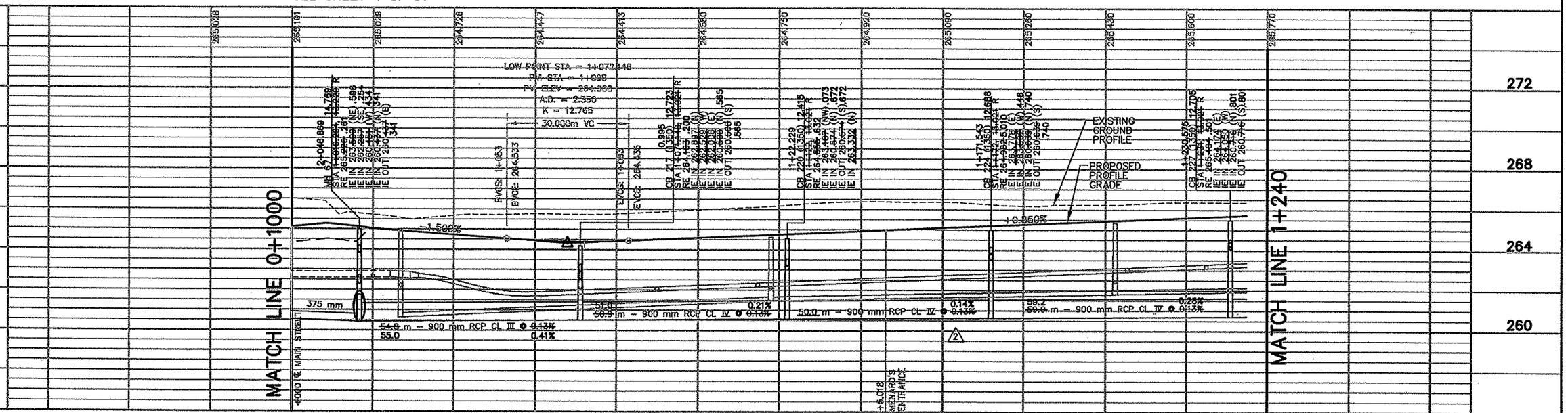
NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	2/16/00	ADDEND 2 DELETED TEXT RELATED TO STEEL CASING.
2	JJL	3/20/00	MOVED MH 67
3	JJL	4/17/00	MOD. REQ. #10: MOD. IE FOR MH 67, ADD IE FOR MH 217
4	JJL	5/25/00	MOD. REQ. #10B: ADDED STUB FROM CB 224, MODIFIED STUBS FROM CB 217 & CB 227
5	JJL	6/12/00	MOD. REQ. #10C: REVISED STUB LOCATION
6	JJL	8/09/00	MOD.REQ. #58: REMOVED WALK 1+032.814–1+288.0, RT
7	PMJ	9/29/00	MOD. REQ. #69: REVISED MEDIAN, ADDED DRIVE ENTRANCE
8	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK
DWG. NAME: DALEDR02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
DRAINAGE PLAN AND PROFILE
STATION 1+000.000 TO STATION 1+240.000

CITY PROJECT 98-20

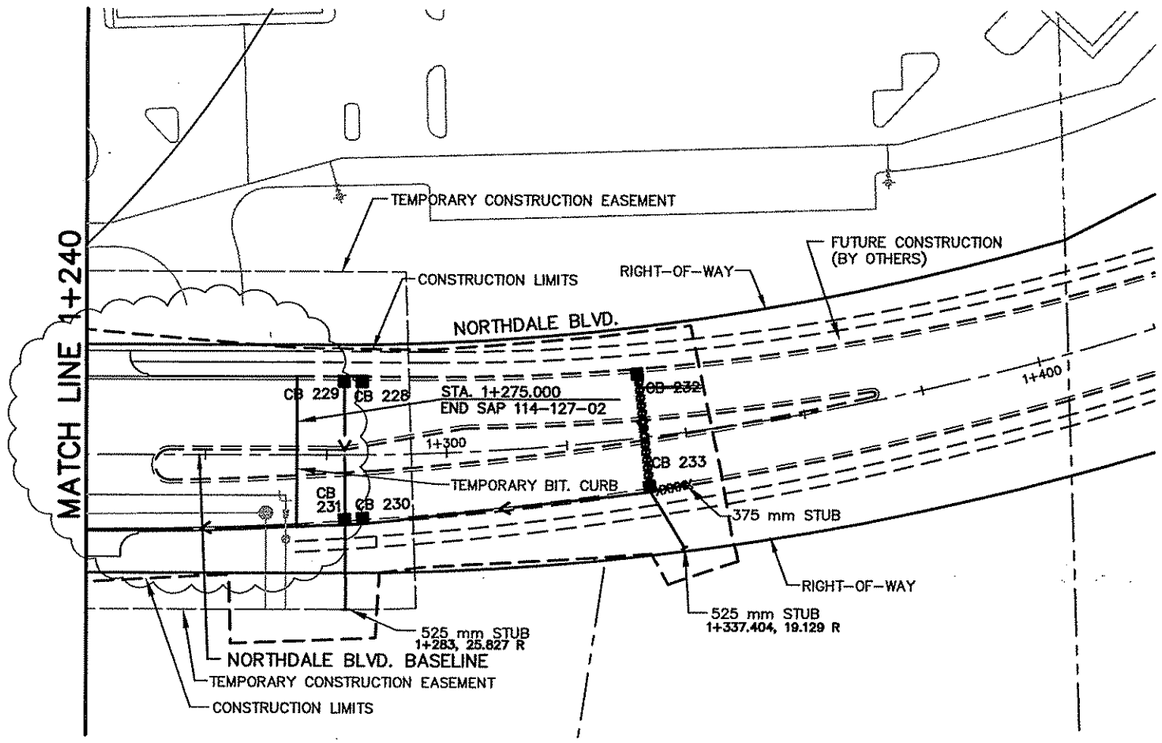
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 201 / 539

PLOT DATE: Aug 1..004 9:07am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh..\NGRING\Daledr02.dwg

ELK DRAWINGS

\PBOX
\86UTIL
\86SITE
\2-ALIW
\2CLM-W
)ALEPRF
\2-PUT
\2P
\2
\2M...O
\2-EUT



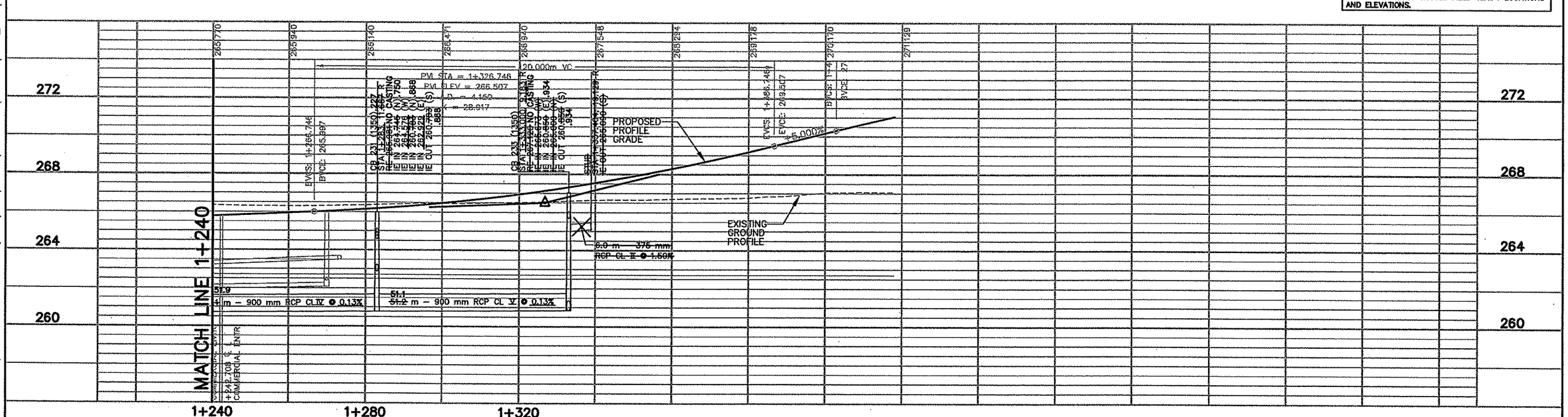


5 0 10 20
HORIZONTAL SCALE IN METERS

STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	LABELED T.C.E.
2	JJL	4/06/00	MOD.REQ.#8: MOD. LOC. OF 525 mm STUB TO CB 233
3	JJL	5/25/00	MOD. REQ. #10B: ADDED STUB TO CB 231
4	JJL	8/09/00	MOD.REQ.#5B: REMOVED WALK 1+032.814–1+288.0, RT.
5	PMJ	9/28/00	MOD. REQ. #6B: REVISED MEDIAN, ADDED DRIVE ENTRANCE
8	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK
DWG. NAME: DALEDR03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
DRAINAGE PLAN AND PROFILE
STATION 1+240.000 TO STATION 1+420.000

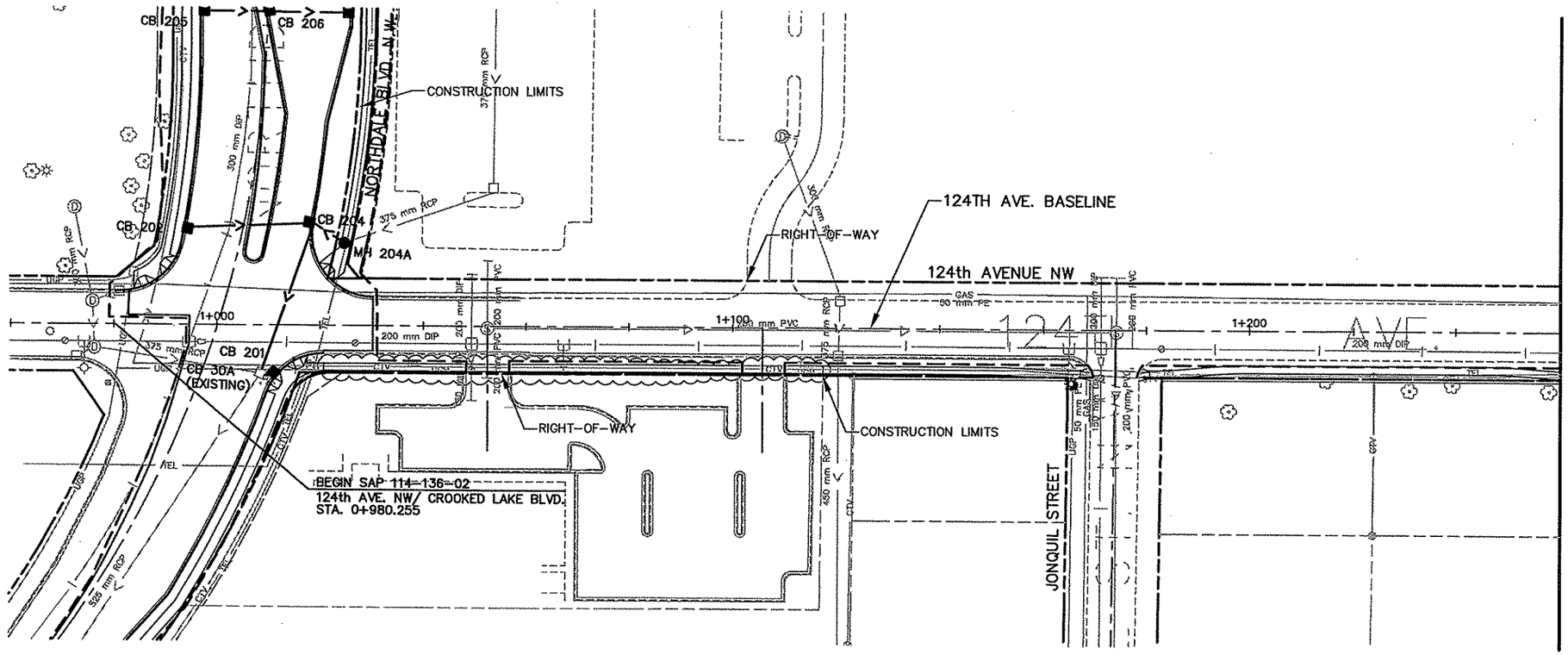
CITY PROJECT 98-20

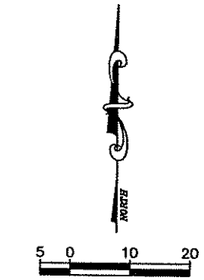
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 202 / 539

PLOT DATE: Oct ... 2000 6:15pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S...\ENGRING\DaledR03.DWG

42CLM–W
42E–CLM
APBOX
42–PUT
24–PRF
42PLNW
42[illegible]W
42[illegible]M
42[illegible]G
42MHETO
42–EUT

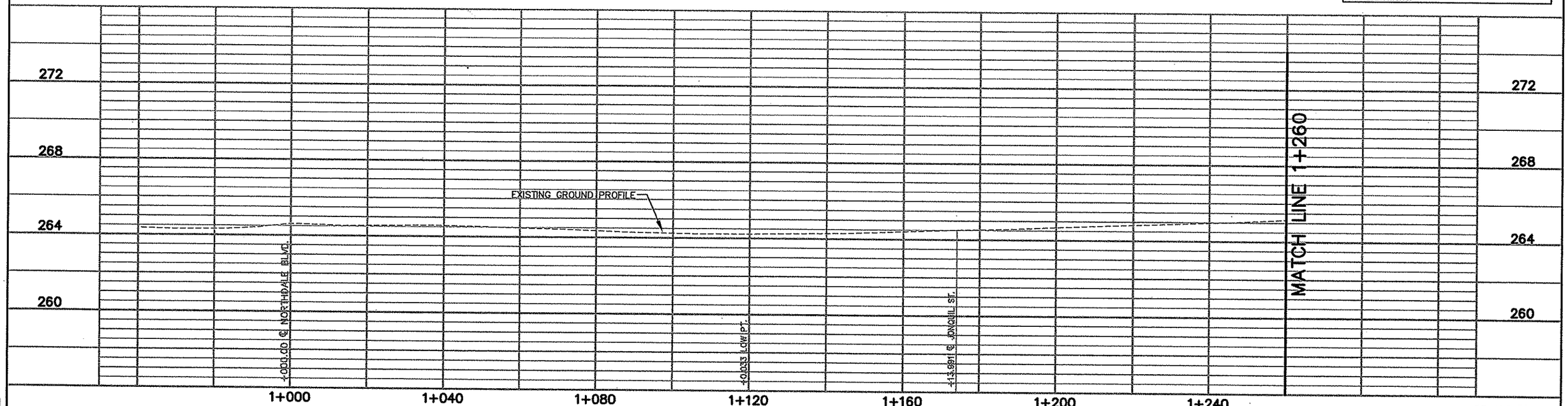




STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED 124th BEGIN STA., CHANGED SAP No.
2	JJL	8/09/00	MOD.REQ.#56: REM. WALK 124th 1+000.8–1+117.4, RT.
3	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK | DWG. NAME: 124DR01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVENUE N.W.
DRAINAGE PLAN AND PROFILE
STATION 0+960.000 TO STATION 1+260.000

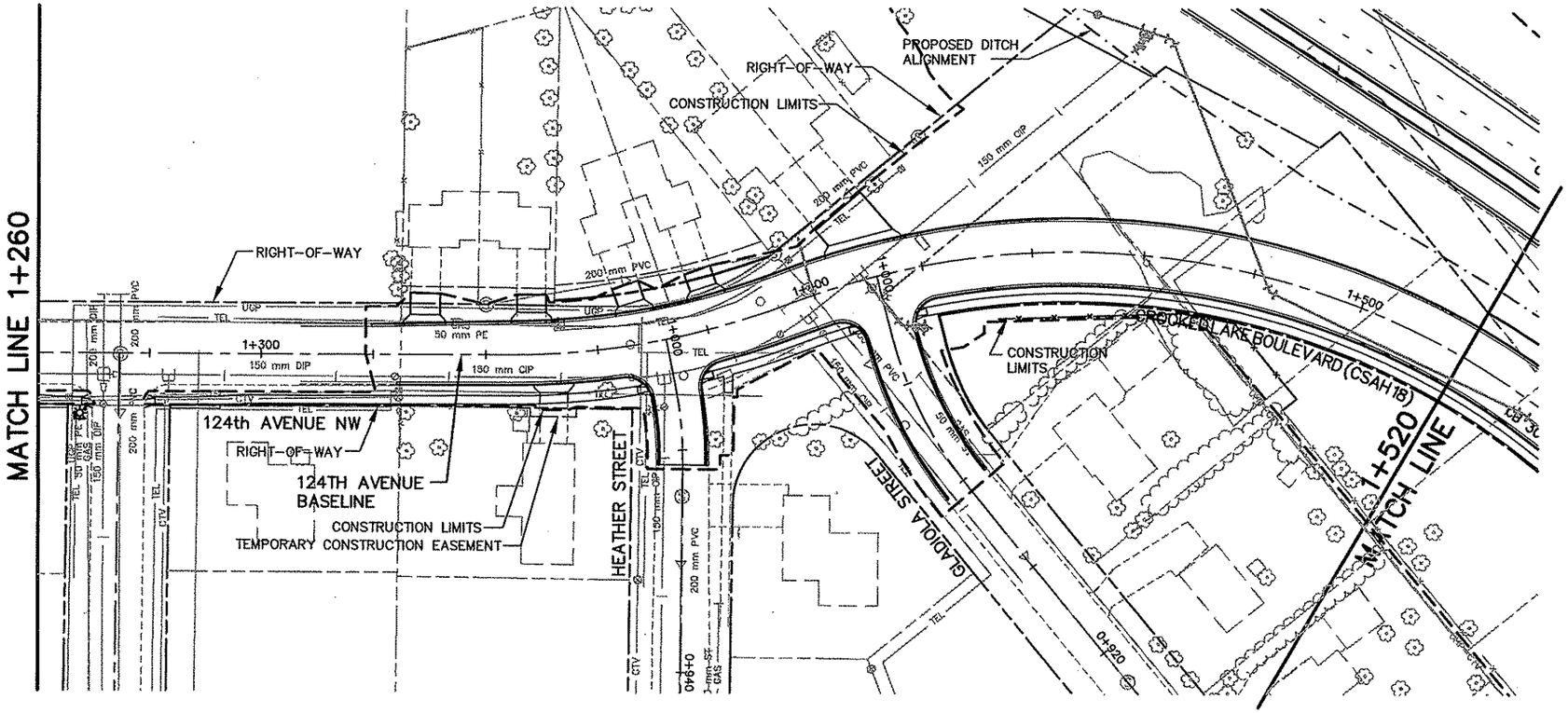
CITY PROJECT 98–20

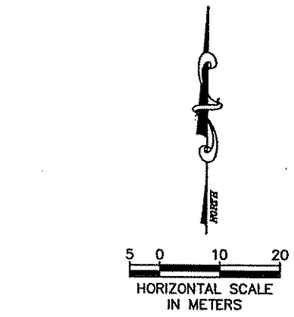
S.P.	0212–40 (T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 203 / 539

PLOT DATE: Aug [illegible].00 3:46pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh[illegible]RING\124DR01.dwg

12E_DRN
12CLM-W
APBOX
12E-PLN
12E-TXT
12E-CLM
24-PRF
12
12
12-
12-ESUM
12MHVEG
12MHETO
12-EUT

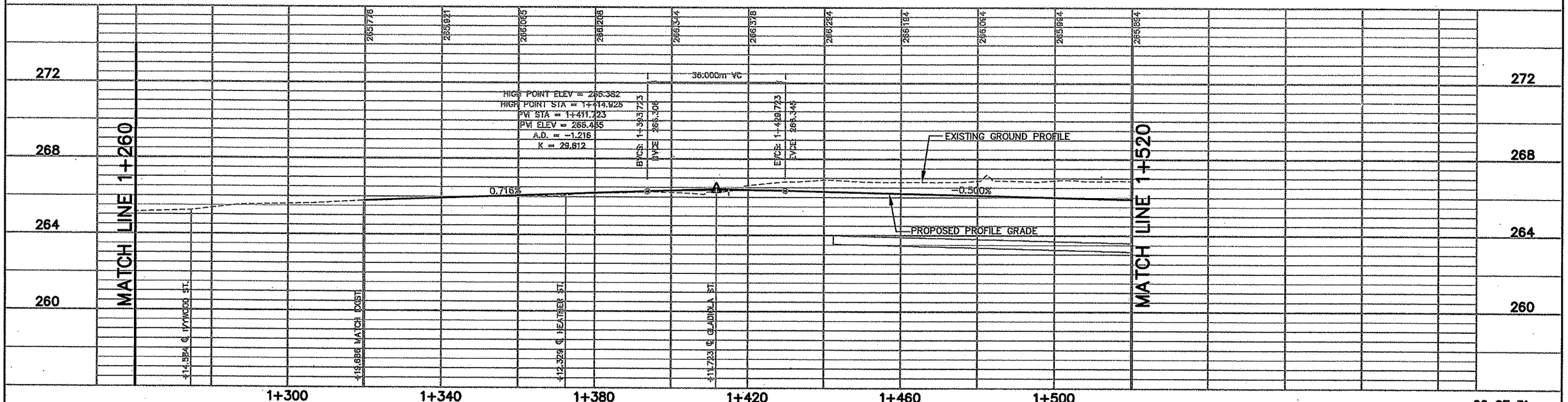




STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADJUSTED LEADERS FOR LIMITS & R/W
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 124DR02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Siell

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./CROOKED LK. BLVD.
DRAINAGE PLAN AND PROFILE
STATION 1+260.000 TO STATION 1+520.000

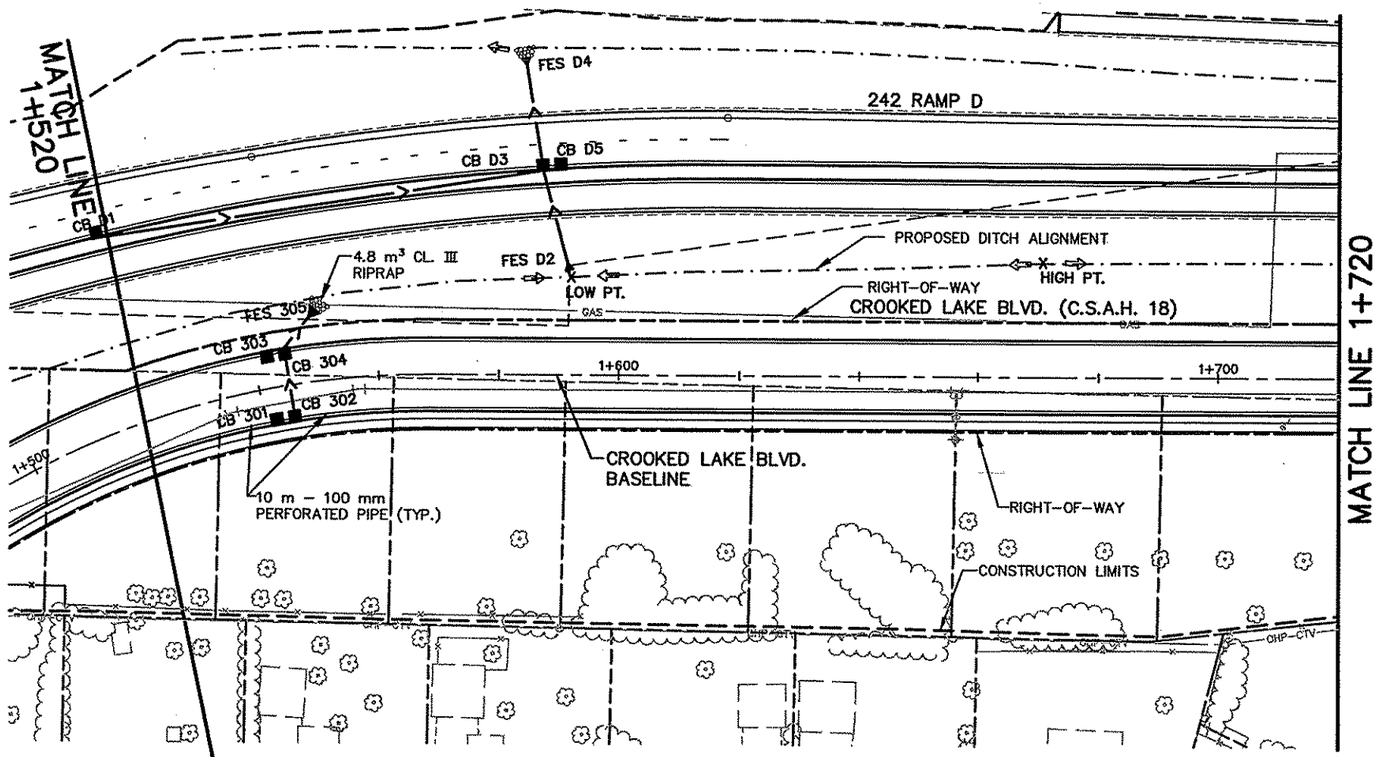
CITY PROJECT 98-20

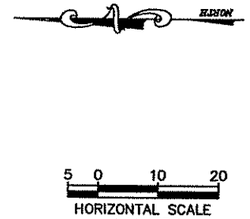
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 204 / 539

PLOT DATE: Apr 2004 3:02pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN...\ENGRING\124DR02.dwg

42CLM-W
42E-CLM
APBOX
42MHVEG
42E_DRN
42E-PLN
24-PRF
42-PUT
42PLNW
42-
42
42\
42-EU1

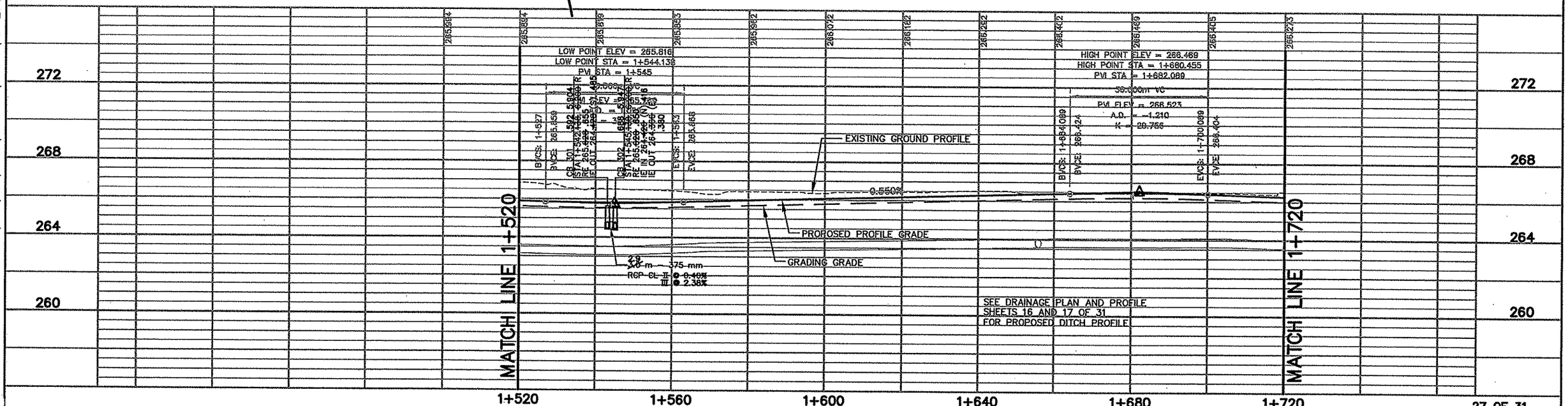




STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
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AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADJUSTED LEADERS FOR LIMITS & R/W
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/IKR | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 124DR03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BLVD. N.W. (C.S.A.H. 18)
DRAINAGE PLAN AND PROFILE
STATION 1+520.000 TO STATION 1+720.000

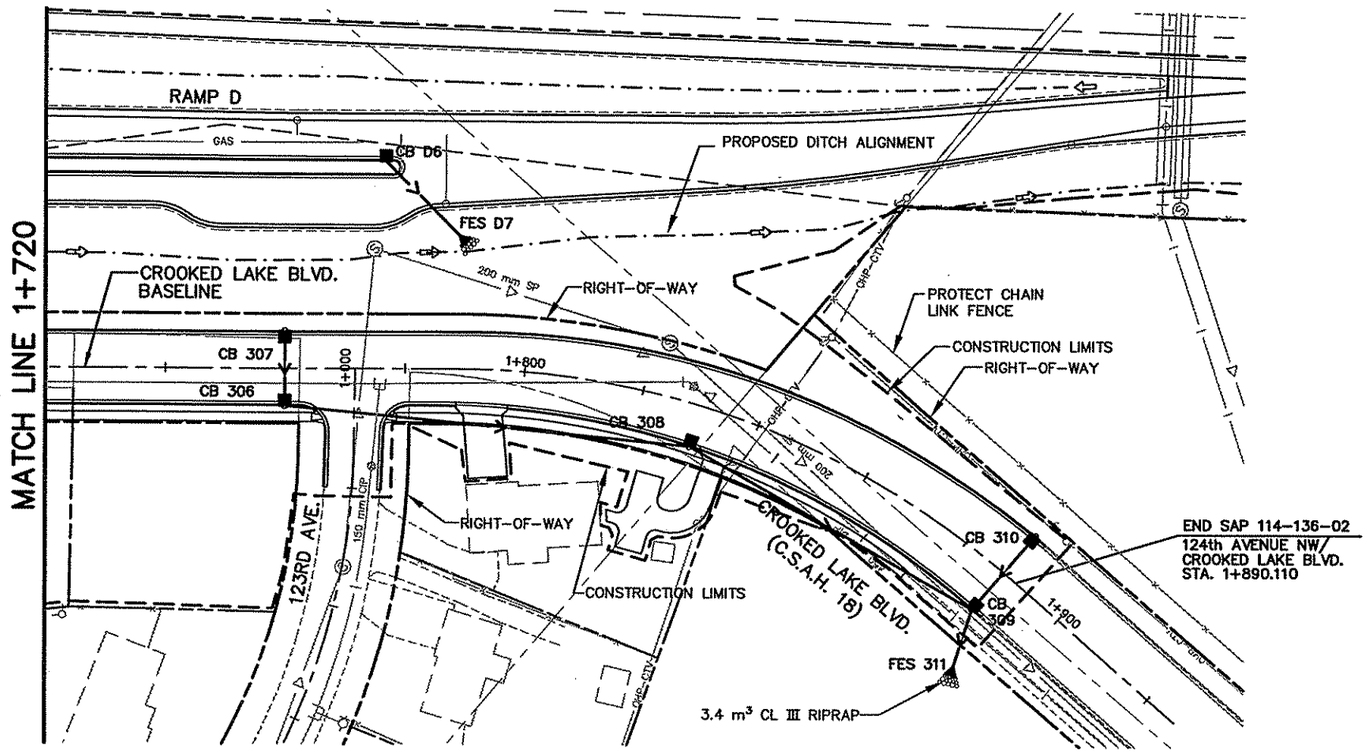
CITY PROJECT 98-20

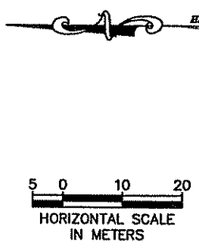
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 205 / 539

PLOT DATE: Dec 1 J4 8:58am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SI\GRING\124dr03.dwg

+ DRAWINGS
2E-CLM
PBOX
2E_DRN
2CLM-W
2E-PLN
2-PUT
4-
2[illegible]
2-
2-ESUM
2MHETO
2-EUT

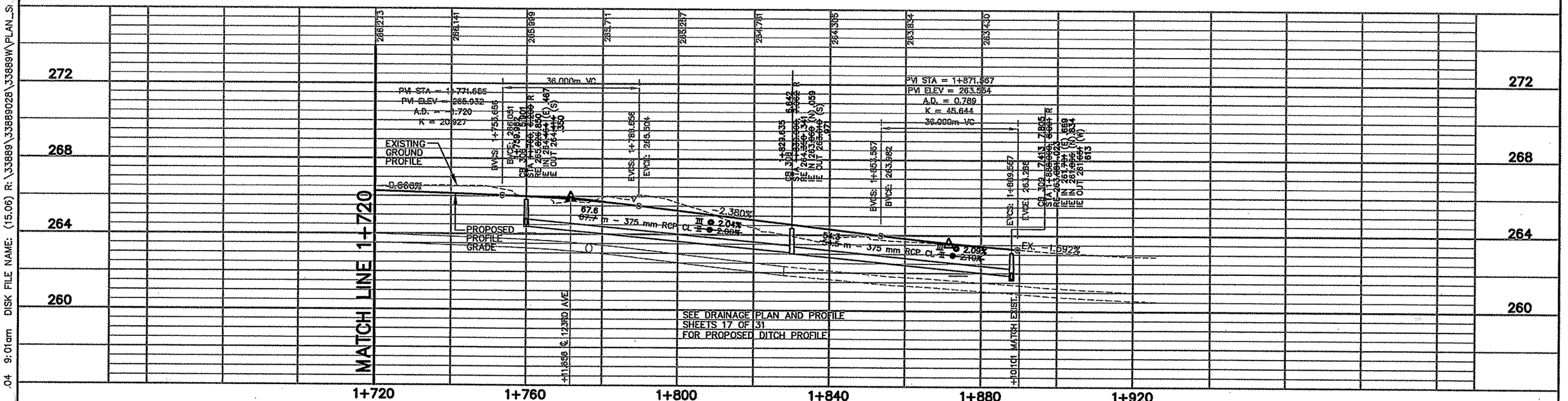




STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



28 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD, MOVED FES D7
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: JJL
CHKED. BY: PBD | DWG. NAME: 124DR04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BLVD. N.W. (C.S.A.H. 18)
DRAINAGE PLAN AND PROFILE
STA. 1+720.000 TO STA. 1+920.000

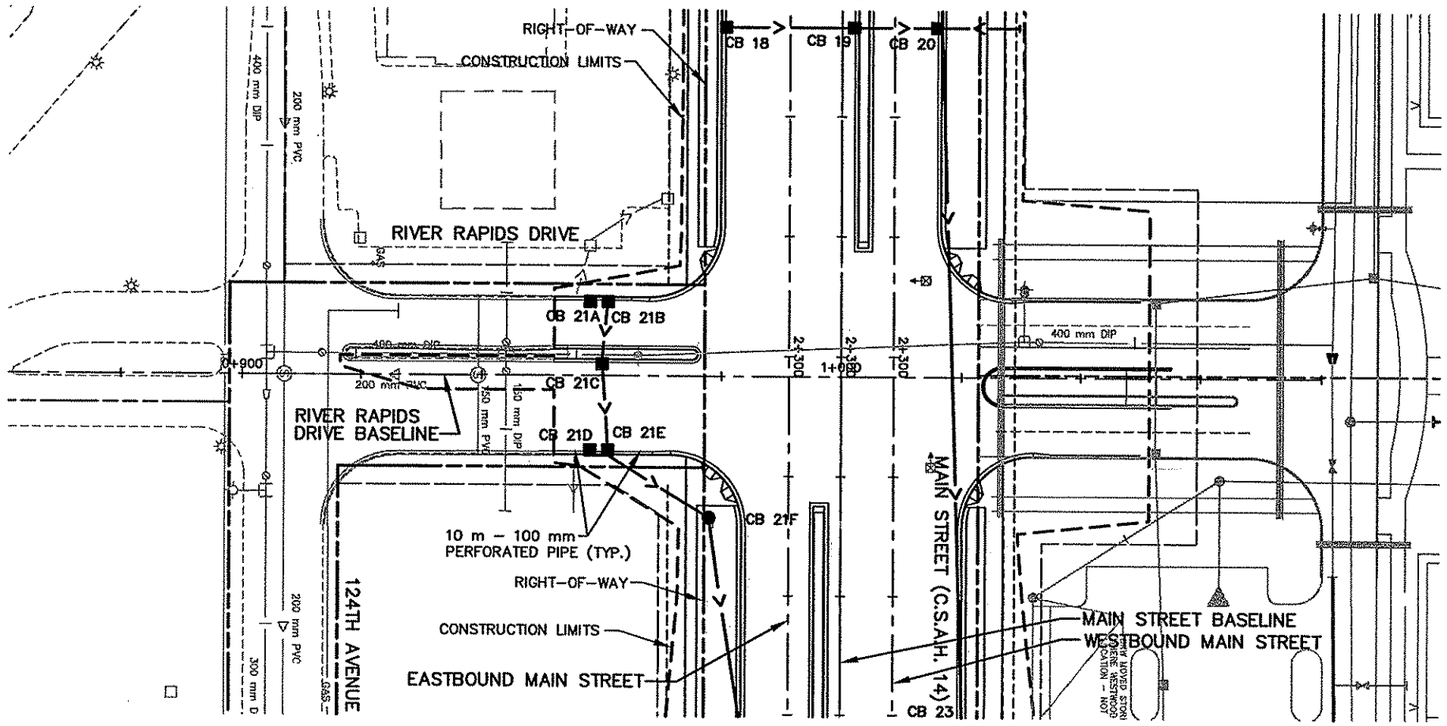
CITY PROJECT 98-20

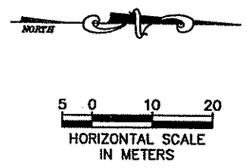
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 206 / 539

PLOT DATE: Dec 1, .04 9:01am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SI...\GRING\124dr04.dwg

SEE SHEET 2 OF 31



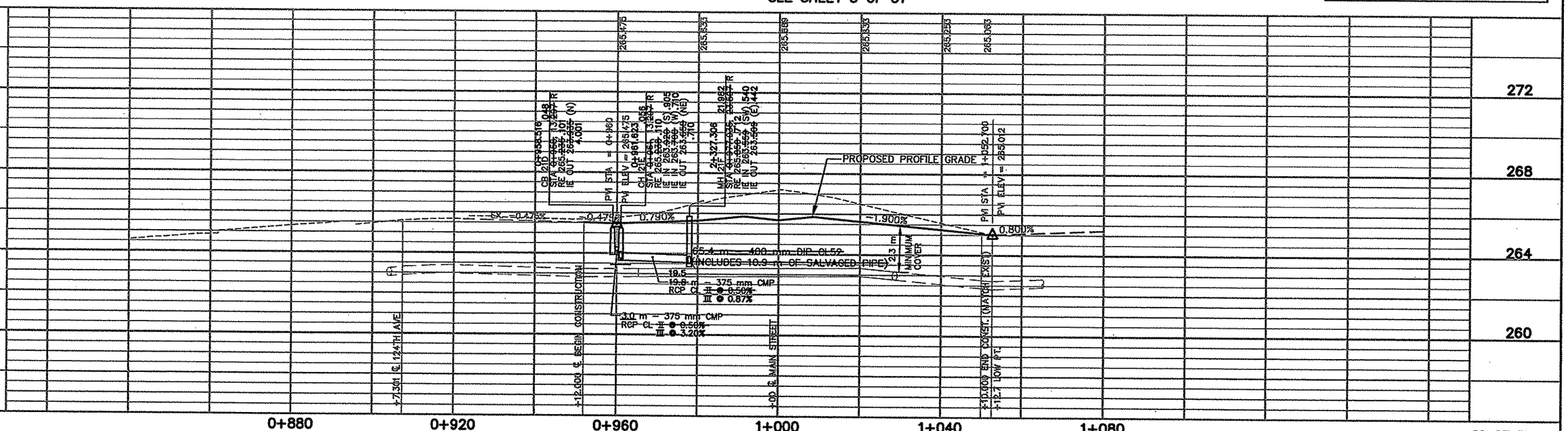


STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SEE SHEET 3 OF 31



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/IKR | DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK | DWG. NAME: ROSEDR01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVER RAPIDS DRIVE
DRAINAGE PLAN AND PROFILE
STATION 0+907.301 TO STATION 1+065.000

CITY PROJECT 98-20

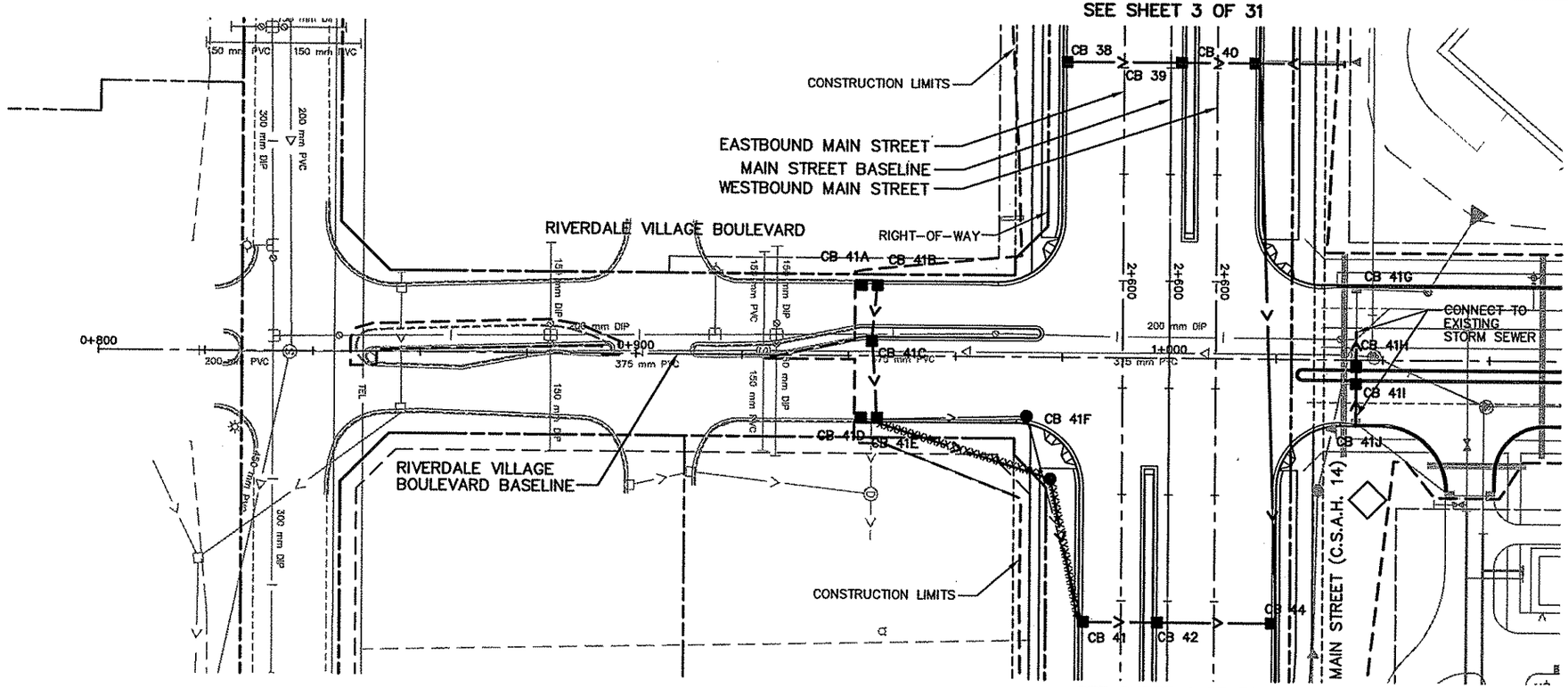
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 – 614 – 19
S.A.P. 02 – 618 – 24
S.P. 114 – 010 – 11
S.A.P. 114 – 020 – 19
S.A.P. 114 – 136 – 02
S.A.P. 114 – 127 – 02

SHEET NO. 207 / 539

PLOT DATE: Dec 1..04 9:04am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...\ENGRING\Rosedr01.dwg

DRAWINGS
PBOX
86UTIL
86SITE
2CLM-W
2-PUT
PP-PRF
2P
2
2-
2MHETO
2-EUT

SEE SHEET 3 OF 31



SEE SHEET 4 OF 31

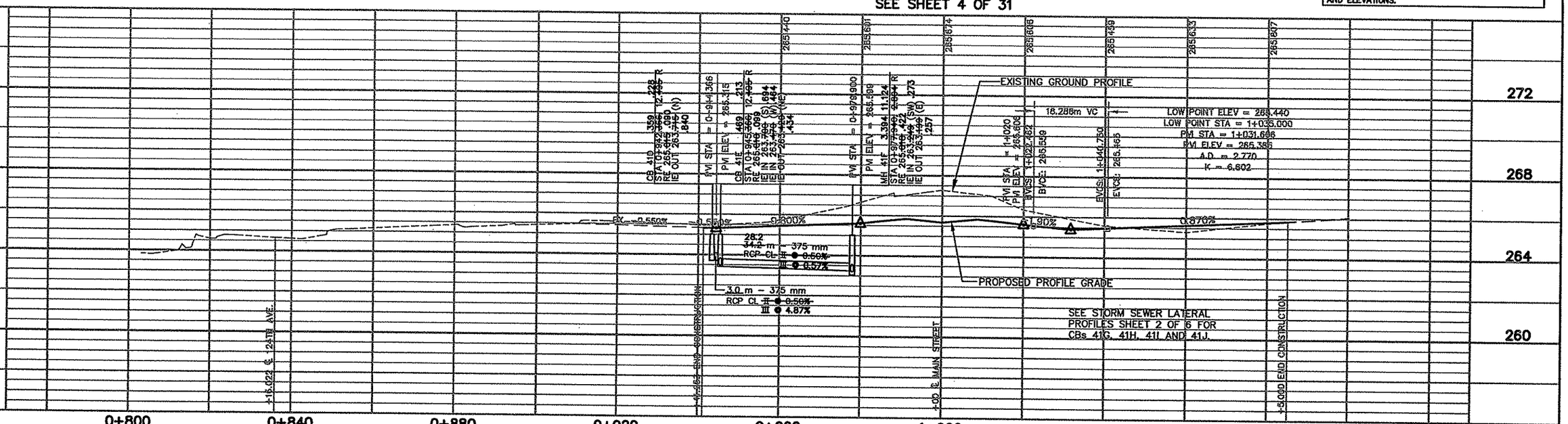
NORTH

5 0 10 20
SCALE IN METERS
HOR. 1=500
VERT. 1=100

STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



30 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	6/06/00	MOD.REQ.#37: ADDED CB41G, CB41H, CB41I & CB41J.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/IKR | DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK | DWG. NAME: POPPDR01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVERDALE VILLAGE BOULEVARD
DRAINAGE PLAN AND PROFILE
STATION 0+835.993 TO STATION 1+085.000

CITY PROJECT 98-20

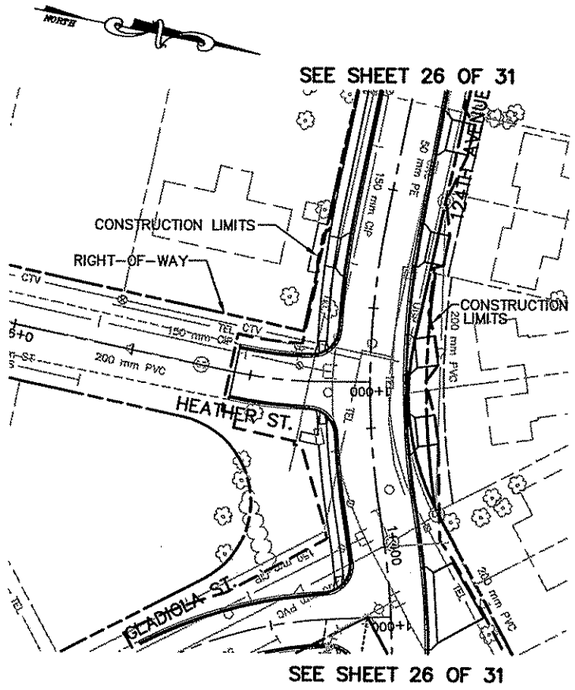
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

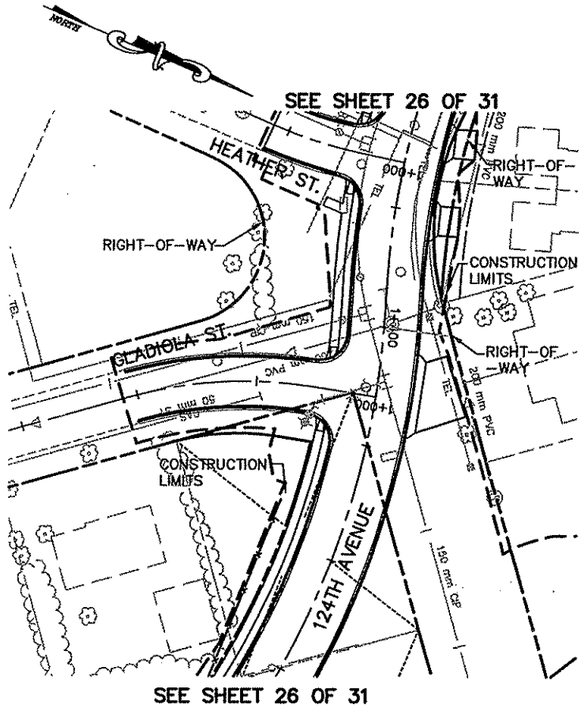
SHEET NO. 208 / 539

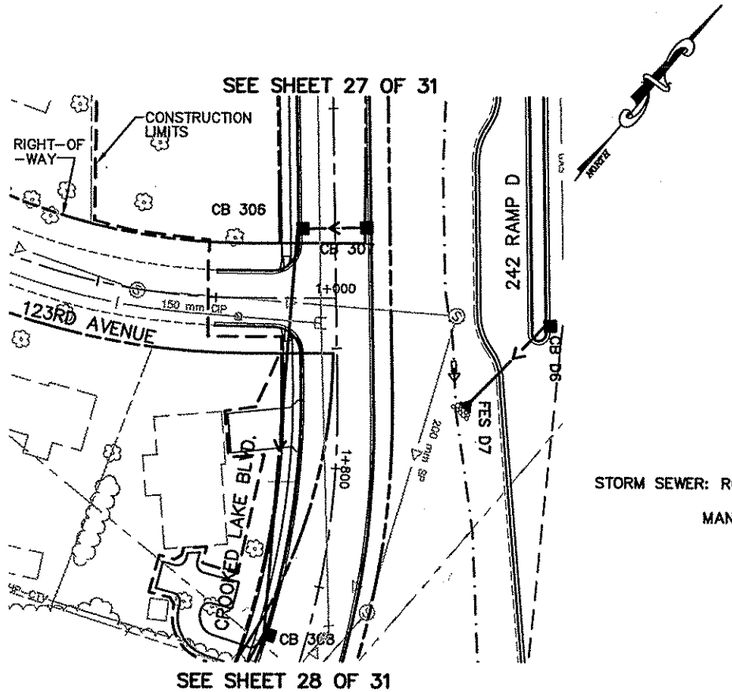
PLOT DATE: Dec 1..04 9:07am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...NGRING\Poppdr01.dwg

REF DRAWINGS

42E_DRN
APBOX
42-PUT
42CLM-W
42E-PLN
42E-CLM
23-PRF
LA[illegible]F
E[illegible]
42[illegible]
42-ESUM
42-ALI
42MHVEG
42MHETO
42-EUT





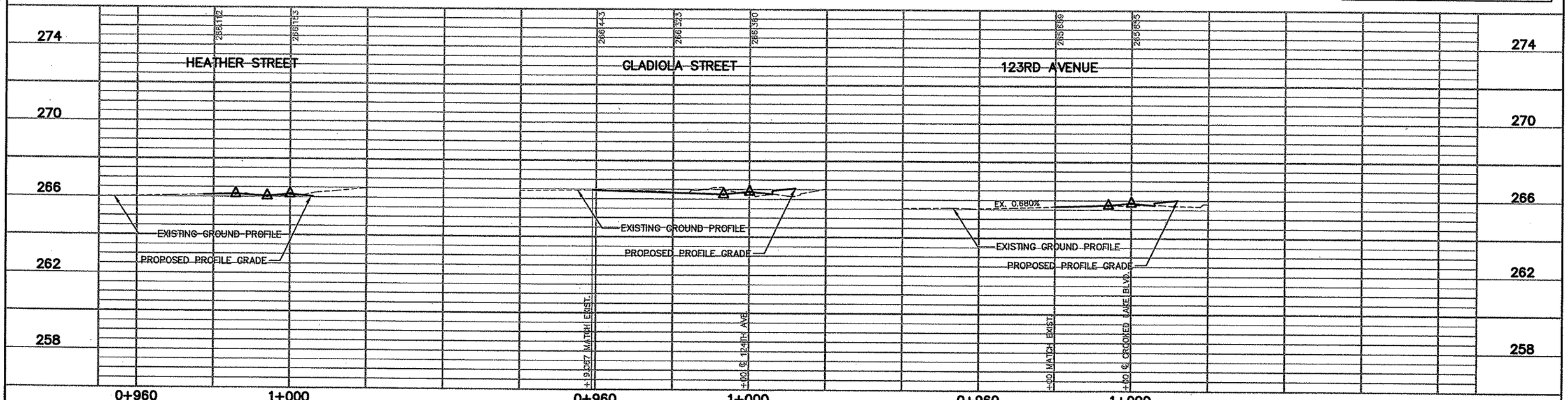


5 0 10 20
SCALE IN METERS
HOR. 1=500
VERT. 1=100

STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DEL. REFERENCE TO NOTE 8 FOR HEATHER & 123rd
			ADDED RAMP D PATROL PAD, MOVED FES 07
2	TSR	2/6/04	AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: ROADDR01
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
HEATHER ST, GLADIOLA ST, & 123RD AVE.
DRAINAGE PLANS AND PROFILES
VARIOUS STATIONS

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 209 / 539

31 OF 31

PLOT DATE: Jan .000 8:11am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_ENGRING\ROADDR01.dwg

SAPBOX
STM-LATI

EXISTING 600 mm
35.0 m — 600 mm
RCP CL IV @ 0.44%

5.5 m — 600mm
RCP CL IV @ 0.14%

18.5
19.6 m — 375 mm
RCP CL III @ 0.50%
0.31%

13.8 m — 375-mm
RCP CL III @ 0.50%
0.56%

15.6
11.8 m — 600 mm RCP
RCP CL III @ 0.18%

15.9 16.8 m — 450 mm RCP
RCP CL II @ 0.50%

14.7
11.1 m — 375 mm RCP
RCP CL III @ 0.60%
0.86%

2.4
1.4 m — 375 mm RCP
RCP CL III @ 0.60%
5.25%

2.0
3.0 m — 375-mm
RCP CL III @ 0.50% 5.10%

2.0
3.0 m — 375 mm
RCP CL III @ 0.50% 0.25%

2.0
3.0 m — 375 mm
RCP CL III @ 0.50%
2.10%

3.0 m — 375-mm
RCP CL III @ 0.50% 3.57%

3.0 m — 375 mm
RCP CL III @ 0.50% 0.53%

22.2
23.2 m — 375 mm
RCP CL III @ 0.50%
0.38%

11.1
12.1 m — 375 mm
RCP CL III @ 0.60%
0.24%

2.4
1.4 m — 375 mm
RCP CL III @ 0.60%
0.25%

13.5
13.8 m — 375-mm
RCP CL III @ 0.50%

15.6
12.8 m — 600 mm
RCP CL IV @ 0.16%

22.2
23.2 m — 375 mm
RCP CL III @ 0.50%
0.56%

21.9
23.2 m — 375 mm
RCP CL III @ 1.00%
1.02%

13.1
11.8 m — 525 mm
RCP CL IV @ 1.00%

35.6
35.6 m — 375 mm
RCP CL III @ 0.50%
0.36%

13.2
13.8 m — 375 mm
RCP CL III @ 0.75%
0.34%

21.9
23.2 m — 375 mm
RCP CL III @ 0.50%
8.82%

13.2
13.8 m — 375 mm
RCP CL III @ 0.50%
0.69%

14.5
10.7 m — 450 mm
RCP CL II @ 0.75%
0.94%

17.6
16.2 m — 375 mm
RCP CL III @ 0.50%
0.48%

2.4
1.4 m — 375 mm
RCP CL III @ 0.60% 1.33%

3.0 m — 375 mm CMP
RCP CL III @ 0.50%
3.27%

15.7
16.2 m — 375 mm CMP
RCP CL III @ 0.50%
0.37%

10.5
10.4 m — 375 mm CMP
RCP CL III @ 0.50%
0.92%

STORM SEWER: RC PIPE — ELK RIVER CONCRETE PRODUCTS
MANHOLES — ELK RIVER CONCRETE PRODUCTS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

5 0 10 20
HORIZONTAL SCALE IN METERS

1 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	3/06/00	MOVED CB No's: 6,8,10,12,21A,27,29,31,33
2	JJL	4/06/00	MOD. REQ. #8: DELETED PROFILES: CB 12 TO CB 13 & CB 33 TO CB 34
3	JJL	7/700	MOD. REQ #46: ADDED STUB TO CB23
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242DR05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Gulb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)

STORM SEWER LATERAL PROFILES

CITY PROJECT 98-20

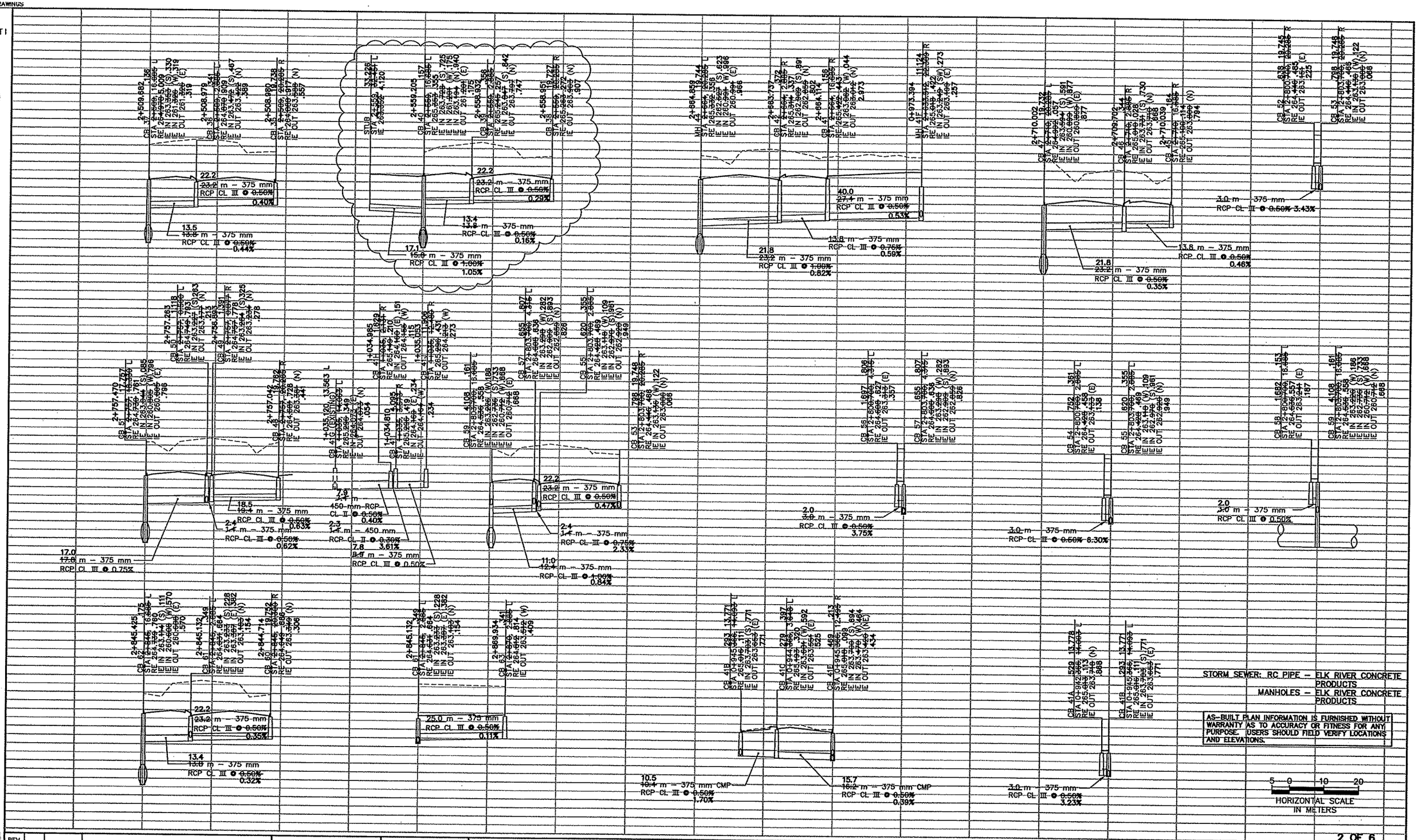
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 210 / 539

PLOT DATE: Apr 2004 3:16pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_...\ENGRING\242dr05.dwg

XREF DRAWINGS

CAPBOX
TM--LATI



STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

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5 0 10 20
HORIZONTAL SCALE IN METERS

2 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	3/06/00	MOVED CB No's: 41A,52,54,56,58. ADDED CB41D & CB41E.
2	JJL	6/06/00	MOD.REQ.#37: ADDED CBs 41G, 41H, 41I & 41J.
3	JJL	04/02/01	MOD. REQ. #83: ADDED STUB TO CB 40
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242DR06
DATE: NOVEMBER 5 ,1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
STORM SEWER LATERAL PROFILES
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 211 / 539

PLOT DATE: Apr 04, 20.. pm DISK FILE NAME: (15.06) R:\33889\33889028\33889WPLAN_SHT\ENGRING\242dr06.dwg

PBOX
M-LATI

STORM SEWER: RC PIPE — ELK RIVER CONCRETE PRODUCTS
MANHOLES — ELK RIVER CONCRETE PRODUCTS

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REMOVED CB78C AND STORM SEWER PIPE

HORIZONTAL SCALE IN METERS

3 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	2/11/00	ADDEND 1 ADDED STUB, MODIFIED PIPE SIZES AND SEWER DEPTH
2	JJL	3/06/00	MOVED CB No's: 72A,74,77,78B,79,80,84,303.
3	JJL	3/20/00	MOVED MH 87
4	JJL	4/06/00	MOD. REQ. #8: MOD. PIPE LENGTH FROM CB 78A TO 78
5	JJL	4/17/00	MOD. REQ. #10: MOD. CB 68 LOCATION, IE'S, PIPE LENGTH
6	JJL	7/5/00	MOD. REQ. #36: ADDED CB 85B, REMOVED CB 78C
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242DR07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Gulb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
STORM SEWER LATERAL PROFILES
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 212 / 539

PLOT DATE: Apr 2004 3:17pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_...\ENGRING\242dr07.dwg

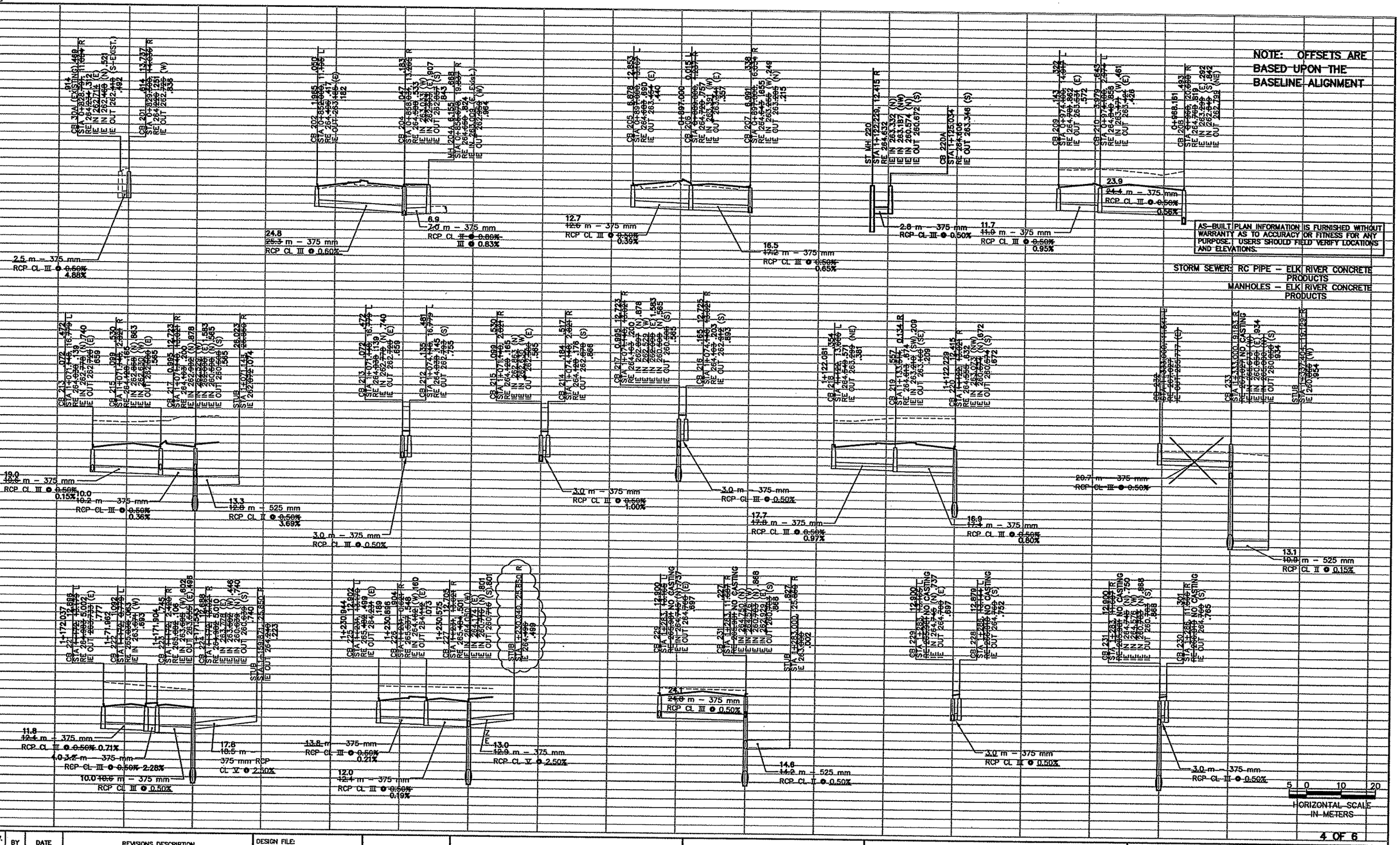
XREF DRAWINGS

APBOX
TM-LATI

NOTE: OFFSETS ARE BASED UPON THE BASELINE ALIGNMENT

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STORM SEWER: RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS



4 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	3/06/00	MOVED CB No's: 212,214,216,228,230.
2	JJL	4/06/00	MOD. REQ. #8: MODIFIED LOCATION OF STUB TO CB 233
3	JJL	5/25/00	MOD. REQ.#109: ADDED STUBS TO CB224, 231, MOD STUBS TO CB217 & CB227
4	JJL	6/01/00	MOD.REQ.#27: MODIFIED INVERTS FROM CB205 & CB206
5	JJL	6/12/00	MOD.REQ.#10C: REVISED STUB LOCATION
6	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242DR08
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)

STORM SEWER LATERAL PROFILES

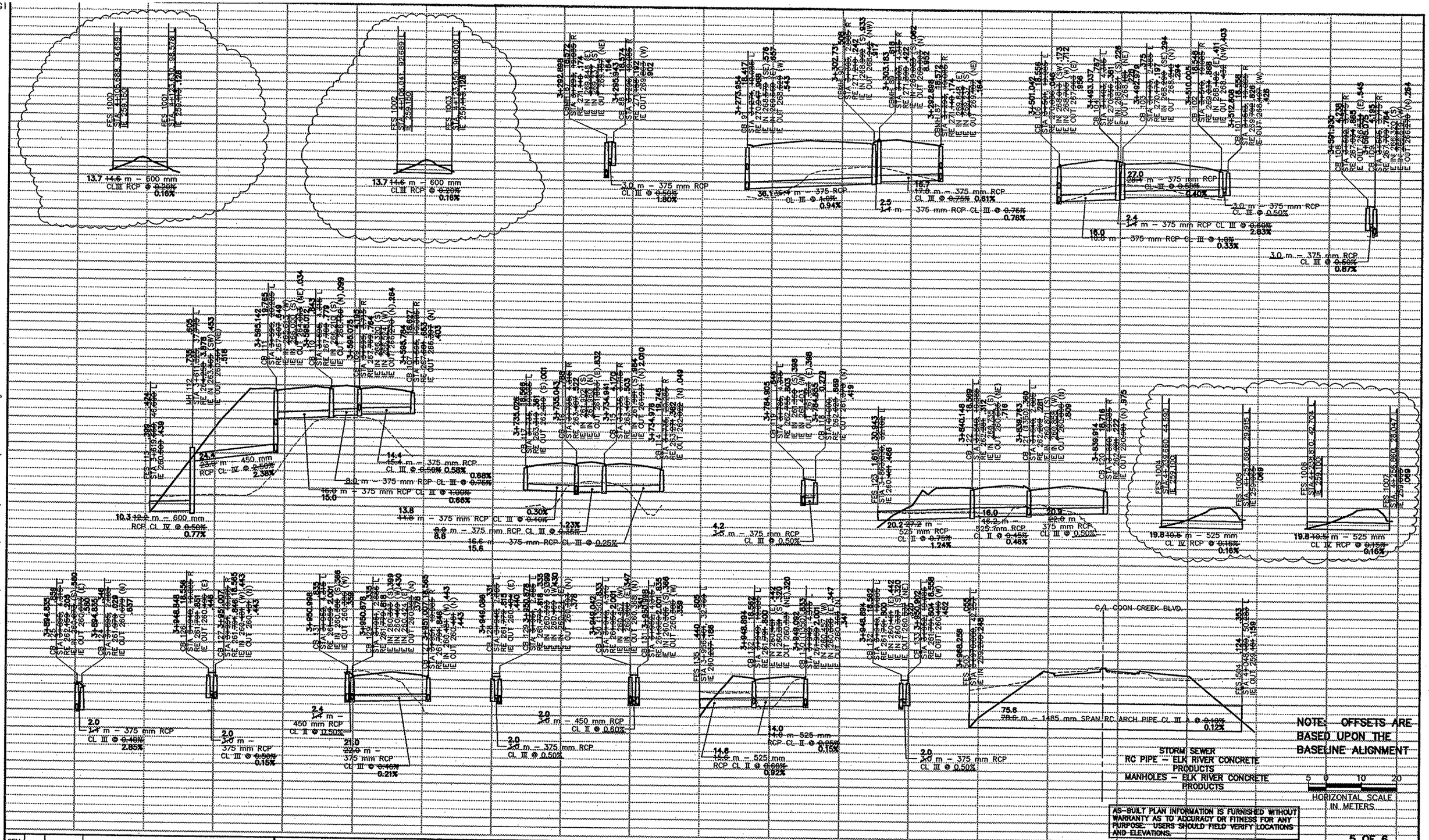
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 213 / 539

PLOT DATE: Dec 04 9:09am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S\GRING\242dr08.dwg

STMXING1
SAPBOX



NOTE: OFFSETS ARE BASED UPON THE BASELINE ALIGNMENT

STORM SEWER
RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

HORIZONTAL SCALE IN METERS
5 0 10 20

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5 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED FES 509, 510, 511 & 512
2	JJL	3/06/00	MOVED CB Nos: 101,106,126,128,131,133.
			REVISED IE CB's 88,101,109,126,128,130,132,133,135.
3	BJK	07/17/01	MOD. REQ. #74: ADDED CULVERTS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EDRX1
DATE: NOVEMBER 5, 1999

minnesota public

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DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)

STORM SEWER LATERAL PROFILES

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 214 / 539

PLOT DATE: Jan 16, 2001 12:58pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SHT\242EDRX1.dwg

XREF DRAWINGS
TMXING1
APBOX

C/L COON CREEK BLVD.

FES 501 260.683 38.671 L
STA 3+973.552 38.671 L
IE IN 259.860 2.47
IE OUT 259.860 2.47

FES 502 260.375 38.293 L
STA 4+043.746 38.293 L
IE OUT 259.467 1.55

78.6
78.0 m – 1485 mm SPAN RC ARCH PIPE CL III A @ 0.10%
0.12%

C/L PRIVATE DRIVE/
FREE RT. TURN

FES 513 260.655 38.701 R
STA 3+781.241 38.640 R
IE IN 259.716

FES 514 260.742 38.609
STA 3+792.995 38.554 R
IE OUT 260.742 .609

23.6
24.15 m – 900 mm
RCP CL III @ 0.30%
0.37%

3+973.449
FES 507 260.798 30.455 R
STA 3+974.774 30.555 R
IE 260.798 .077

58.0 m – 900 mm RCP CL II @ 0.30%
53.1
0.31%

4+032.040
FES 508 260.864 28.798 R
STA 4+032.922 28.898 R
IE 260.864 259.898

3+973.308
FES 505 260.798 30.555 R
STA 3+974.774 30.655 R
IE 260.798 .103

58.0 m – 900 mm RCP CL II @ 0.30%
53.1
0.34%

4+031.888
FES 506 260.864 31.283 R
STA 4+032.922 31.383 R
IE 260.864 .921

QB 401 260.666 19.783 L
STA 1+270.722 19.783 L
RE 261.736 .022
IE IN 260.666 .730
IE OUT 260.666 .730

QB 402 260.744 19.773 L
STA 1+257.797 19.773 L
RE 261.774 .022
IE OUT 260.744 .720

12.6
13.2 m – 375 mm
RCP CL III @ 0.35%
0.42%

QB 403 260.666 19.783 L
STA 1+270.722 19.783 L
RE 261.736 .022
IE IN 260.666 .730
IE OUT 260.666 .730

QB 404 260.744 19.773 L
STA 1+257.797 19.773 L
RE 261.774 .022
IE OUT 260.744 .720

1.8 m – 375 mm RCP CL III @ 0.35%
2.4
0.17%

20.9 21.4 m – 375 mm
RCP CL III
@ 0.35%
0.14%

18.6
19.4 m –
375 mm RCP
CL III @ 0.40%
0.17%

C/L RAMP B

FES B11 260.666 8.990
STA 8+269.666 8.990
IE 261.479 .487

MH B9 260.641 30.875
STA 8+250.641 31.215 L
RE 264.509 5.327
IE IN 262.295 .157

EXISTING 900 mm CULVERT

36.9 39.4 m – 900 mm RCP
CL IV @ 0.650%
0.73%

10.3
10.4 m – 900 mm RCP
CL II @ 0.650%
1.11%

FES B8 260.772 42.458 R
STA 8+235.772 42.458 R
IE 262.346 .221

8+310.016
CB B7 260.500 7.900 L
STA 8+310.016 7.900 L
RE 268.144 .184
IE OUT 264.500 .514

C/L RAMP B

8+310.017
FES B7 260.500 26.692 R
STA 8+310.017 26.692 R
IE 264.000 .009

32.0
33.9 m – 375 mm RCP
CL III @ 1.56%
IV @ 1.58%

8+390.087
CB B3 260.661 7.900 L
STA 8+390.087 7.900 L
RE 268.554 .048
IE OUT 264.227.698

C/L RAMP B

8+390.031
FES B3 260.661 14.900 R
STA 8+390.031 14.900 R
IE 264.500 .485

20.8
21.9 m – 375 mm RCP
CL III @ 1.09%
1.03%

RAMP C
C/L

C4 260.666 2.100 R
STA 7+827.086 2.100 R
RE 265.666 .887
IE IN 264.166 (N)187
IE OUT 264.166 (SE)

FES C5 260.666 7.444 L
STA 7+875.666 7.444 L
IE 264.666 .068
INSTALL SAFETY APRON

50.5 52.5 m – 560 mm SPAN RC
PIPE-ARCH CL II A @ 0.20%
0.20%

C/L RAMP C

7+950.044
FES C7 260.666 34.966 L
STA 7+950.044 34.966 L
IE 263.666 .787

66.0 m
56.3 CL V
375 mm RCP
@ 2.50%
2.62%

C/L RAMP D

7+960.198
FES C6 260.666 14.587
STA 7+960.198 14.587
IE 263.666 .274

FES D4 260.666 14.676 L
STA 8+319.666 14.676 L
IE IN 263.666 .428
INSTALL SAFETY APRON

FES D2 260.666 21.163 R
STA 8+319.666 21.163 R
IE OUT 263.666 .575

15.7
17.1 m –
RCP CL III @ 0.38%
0.51%

16.8
19.0 m – 525 mm
RCP CL II @ 0.46%
0.40%

C/L RAMP D

8+505.989
CB D6 260.666 4.386 L
STA 8+505.989 4.386 L
RE 265.666 .924
IE OUT 263.666 .824

FES D7 260.666 4.386 R
STA 8+519.435 17.822 R
IE OUT 263.666 .748

17.6
19.0 m –
375 mm RCP
CL III @ 0.30%
0.43%

DATUM
260.0

B/L MAIN ST.

242 RAMP A 681 .742
STA 8+054.681 77.415 R
FES A1 263.999 .111
IE IN
INSTALL SAFETY APRON
& GRATE

242 RAMP A 681 87.040 R
STA 8+075.261 .010
Existing
IE 263.999

42.8 m @ 0.42%
EXISTING 600 mm RCP

19.5 22.9 m – 600 mm
RCP CL III @ 0.39%
0.52%

B/L MAIN ST.

242 RAMP B
STA 8+224.569 94.744 R
Existing
IE 262.999 .837

242 RAMP B1 880 .620
STA 8+237.462 86.238 R
FES B12 262.260 .814
INSTALL SAFETY APRON
& GRATE

12.2 15.0 m – 600 mm
RCP CL II @ 0.39%
0.19%

242 RAMP C1 176 .537
STA 8+015.666 65.426
FES C8 263.666 .463
INSTALL SAFETY APRON
& GRATE

242 RAMP C
STA 8+031.224 77.364 L
Existing
IE 263.666 .464

43.4 m @ 0.94%
EXISTING 600 mm RCP

14.6
17.5 m – 600 mm
RCP CL III @ 0.88%
0.13%

242 RAMP D
STA 8+129.278 69.439 L
Existing
IE 263.666 .085

6.081 84.128
STA 8+148.666 53.044 L
FES D8 260.666 .054
INSTALL SAFETY APRON
& GRATE

14.6
17.5 m – 600 mm
RCP CL III @ 0.88%
0.28%

NOTE: OFFSETS ARE BASED UPON THE BASELINE ALIGNMENT

HORIZONTAL SCALE IN METERS
5 0 10 20

STORM SEWER
RC PIPE – ELK RIVER CONCRETE PRODUCTS
MANHOLES – ELK RIVER CONCRETE PRODUCTS

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6 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	12/30/99	ADJUSTED RE FOR CB 402 & CB 403. MOVED FES D7
			EXTENDED CULVERTS UNDER 242 BRIDGE
2	JJL	3/06/00	REVISED IE CB's C4 & C5.
3	JJL	4/06/00	MOD. REQ. #8: MODIFIED LOCATION FES D4
4	JJL	4/12/00	MOD.REQ.#9: MOD. PIPE LENGTH FES D2/CB D3/FES D4
			ADDED SAFETY GRATES: FES A1, B12, C5, C8, D4, D8
5	JJL	5/15/00	MOD.REQ.#28: MOVED CB 404
6	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242EDRX2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Bielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
STORM SEWER LATERAL PROFILES
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 215 / 539

PLOT DATE: Dec J04 9:13am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-S...42EDRX2.dwg

KREF DRAWINGS
SAPBOX

DRAINAGE TABULATION

Z

NOTES	STRUCTURE NO.	STATION [1]	OFFSET [1]	STRUCT. DESIGN	RIM ELEV.	LOW STRUCT. ELEV.	PAY HEIGHT m	F & I CAST ASSY	STRUCT. NO.	SLOPE %	375mm RCP CL III m	375mm RCP CL IV m	375mm RCP CL V m	450mm RCP CL II m	450mm RCP CL III m	450mm RCP CL IV m	450mm RCP CL V m	560mm Span RCP–ARCH CL IIA m	525mm RCP CL II m	525mm RCP CL IV m	600mm RCP CL III m	600mm RCP CL IV m	750mm RCP CL II m	750mm RCP CL IV m	900mm RCP CL II m	900mm RCP CL III m	900mm RCP CL IV m	900mm RCP CL V m	1050mm RCP CL II m	1050mm RCP CL III m	1200mm RCP CL I m	1200mm RCP CL III m	1485mm Span RCP – ARCH CL IIA m	1350mm RCP CL III m	1350mm RCP CL IV m	1500mm RCP CL IV m	1500mm RCP CL V m	RCP APRON & TRASH RACK STD [9] EACH	RIPRAP CL III m3	FILTER FABRIC TYPE IV m2
	MAIN STREET (C.S.A.H. 14)																																								
[2]	MH 2A	1+037.465	24.897 RT	1200	266.500	262.311	4.189	R–1733	CB 2	0.40																																
[2]	MH 2B	1+120.000	24.910 RT	1200	265.375	262.641	2.734	R–1733	MH 2A	0.40														26.1																	
[2]	MH 2C	1+204.338	24.910 RT	1500	265.000	262.962	2.038	R–1733	MH 2B	0.38														82.5																	
[2]	MH 2D	1+208.585	28.265 RT	1200	264.816	262.986	1.830	R–1733	MH 2C	0.45													84.3																	
[8]	EX 2	1+204.218	21.329 RT	–	264.816	263.079	–	–	MH 2C	0.60									5.4																					
[8]	EX 1	1+215.393	29.120 RT	–	266.693	263.017	–	–	MH 2D	0.45									3.6																					
[6][8]	CB 1	2+046.905	16.685 RT	1200	265.95[illegible]	262.360	3.593	R–3250	CB 2	0.44									6.9																					
[6]	CB 2	2+052	17.909 LT	1950	265.943	262.204	3.739	R–3250	CB 5	0.15												35.0																		
[6]	CB 3	2+103	16.685 RT	1200	265.032	263.732	1.300	R–3250	CB 4	0.50	13.8																		51.0											
[6]	CB 4	2+103	2.885 RT	1200	264.932	263.613	1.319	R–3250	CB 5	0.50	19.6																													
[6]	CB 5	2+103	16.685 LT	1500	265.024	262.120	2.904	R–3250	CB 12	0.15																														
[4][6]	CB 6	2+146	17.046 RT	1200	264.681	263.386	1.295	R–3250	CB 7	0.50	3.0																		43.0											
[4][6]	CB 7	2+149	17.246 RT	1200	264.678	263.321	1.357	R–3250	CB 9	0.50	15.7																													
[4][6]	CB 8	2+146	1.777 RT	1200	264.698	263.403	1.295	R–3250	CB 9	0.50	3.0																													
[4][6]	CB 9	2+149	1.577 RT	1200	264.693	263.192	1.500	R–3250	CB [illegible]	0.60	1.4																													
[4][6]	CB 10	2+146	0.349 RT	1200	264.646	263.351	1.295	R–3250	CB 11	[illegible]50	3.0																													
[4][6]	CB 11	2+149	0.149 RT	1200	264.651	263.134	1.517	R–3250	CB 13	0.50				16.8																										
[4][6]	CB 12	2+146	16.685 LT	1500	264.689	262.056	2.633	R–3250	CB 13	0.15																														
	STUB	2+149	29.493 LT	–	–	262.781	–	–	CB 13	0.50																			20.0										
[4][6]	CB 13	2+149	16.685 LT	1950	264.689	262.051	2.638	R–3250	CB 17	0.18											12.8																		
[6]	CB 14	2+197	20.285 RT	1200	264.897	263.597	1.300	R–3250	CB 15	0.50	23.2																			48.0										
[6]	CB 15	2+197	2.885 LT	1200	264.879	263.431	1.448	R–3250	CB 16	0.50	1.4																													
[6]	CB 16	2+197	4.315 LT	1200	265.059	263.374	1.685	R–3250	CB 17	0.50	12.4																													
[6]	CB 17	2+197	16.685 LT	1800	264.987	261.965	3.022	R–3250	CB 20	0.18																														
[6]	CB 18	2+245	20.285 RT	1200	265.257	263.957	1.300	R–3250	CB 19	0.50	23.2																			48.0										
[6]	CB 19	2+245	2.885 LT	1200	265.239	263.791	1.448	R–3250	CB 20	0.50	13.8																													
	STUB	2+245	29.493 LT	–	–	262.781	–	–	CB 20	0.50																													
[6]	CB 20	2+245	16.685 LT	1950	265.347	261.879	3.468	R–3250	CB 23	0.20												12.8																		
[6]	CB 21	2+362	16.685 RT	1200	265.346	263.281	2.065	R–3250	CB 22	0.75	13.8																				117.1									
	RIVER RAPIDS DRIVE																																								
[3][4]	CB 21A	0+958	13.216 LT	1200	265.251	263.956	1.295	R–3067	CB 21B	0.50	3.0																													
[3][4]	CB 21B	0+961	13.216 LT	1200	265.254	263.891	1.363	R–3067	CB 21C	0.50	10.4																													
[3][4]	CB 21C	0+960	2.848 LT	1200	265.413	263.789	1.624	R–3067	CB 21E	0.50	16.2																													
[3][4]	CB 21D	0+958	13.297 RT	1200	265.235	263.935	1.300	R–3067	CB 21E	0.50	3.0																													
[3][4]	CB 21E	0+961	13.297 RT	1200	265.238	263.658	1.581	R–3067	MH 21F	0.50	19.8																													
[2]	MH 21F	0+977.935	23.597 RT	1200	265.850	263.509	2.341	R–1733	CB 21	0.50	35.5																													
[6]	CB 22	2+362	2.885 RT	1200	265.238	263.128	2.110	R–3250	CB 23	1.00	23.2																													
[8]	STUB	2+362	32.122 LT	–	–	262.615	–	–	CB 23	1.00																													
[6]	CB 23	2+362	20.285 LT	1800	265.256	261.645	3.611	R–3250	CB 26	0.20										11.8																			
[6]	CB 24	2+411	16.685 RT	1200	264.978	263.678	1.300	R–3250	CB 25	0.50	13.8																			49.0										
[6]	CB 25	2+411	2.885 RT	1200	264.870	263.559	1.311	R–3250	CB 26	0.50	23.2																													
[6]	CB 26	2+411	20.285 LT	1800	264.888	261.547	3.341	R–3250	CB 33	0.20																													
[4][6]	CB 27	2+458	16.685 RT	1200	264.699	263.404	1.295	R–3250	CB 28	0.50	3.0																			47.1										
[4][6]	CB 28	2+461	16.685 RT	1200	264.699	263.339	1.360	R–3250	CB 30	0.50	16.2																													
[4][6]	CB 29	2+458	0.664 RT	1200	264.680	263.385	1.295	R–3250	CB 30	0.50	3.0																													
[4][6]	CB 30	2+461	0.464 RT	1200	264.675	263.208	1.467	R–3250	CB 32	0.60	1.4																													
[4][6]	CB 31	2+458	0.764 LT	1200	264.682	263.387	1.295	R–3250	CB 32	0.50	3.0																													
[4][6]	CB 32	2+461	0.964 LT	1200	264.687	263.149	1.538	R–3250	CB 34	0.75				15.7																										
[4][6]	CB 33	2+458	16.685 LT	1800	264.699	261.452	3.247	R–3250	CB 34	0.20																													
[4][6]	CB 34	2+461	16.685 LT	1800	264.699	261.446	3.253	R–3250	CB 37	0.25																				3.0										
[6]	CB 35	2+509	20.285 RT	1200	264.888	263.588	1.300	R–3250	CB 36	0.50	23.2																			48.0										
[6]	CB 36	2+509	2.885 LT	1200	264.870	263.422	1.448	R–3250	CB 37	0.50	13.8																													
[6]	CB 37	2+509	16.685 LT	1800	264.978	261.326	3.652	R–3250	CB 40	0.25																													
[6]	CB 38	2+559	20.285 RT	1200	265.263	263.963	1.300	R–3250	CB 39	0.50	23.2																				50.0									
[6]	CB 39	2+559	2.885 LT	1200	265.245	263.797	1.448	R–3250	CB 40	0.50	13.8																													
~~[6]~~	~~CB 40~~	~~2+559~~	~~16.685 LT~~	~~1950~~	~~265.305~~	~~261.201~~	~~4.152~~	~~R–3250~~	~~CB [illegible]~~	~~0.20~~																													
[8]	STUB	2+559	32.451 LT	–	265.500	263.352	–	–	CB 40	1.00	15.8																													
~~[6]~~	~~CB 41~~	~~2+564~~	~~16.685 RT~~	~~1200~~	~~265.922~~	~~263.012~~	~~2.410~~	~~R–3250~~	CB 42	0.75	13.8																													
	RIVERDALE BOULEVARD																																								
[3][4]	CB 41A	0+942.366	14.093 LT	1200	265.013	263.718	1.295	R–3067	CB 41B	0.50	3.0																													
[3][4]	CB 41B	0+945.366	14.093 LT	1200	265.016	263.653	1.363	R–3067	CB 41C	0.50	10.4																													
[3][4]	CB 41C	0+944.366	3.648 LT	1200	265.193	263.551	1.642	R–3067	CB 41E	0.50	16.2																													
[3][4]	CB 41D	0+942.366	12.495 RT	1200	265.015	263.715	1.300	R–3067	CB 41E	0.50	3.0																													
[3][4]	CB 41E	0+945.366	12.495 RT	1200	265.018	263.420	1.598	R–3067	MH 41F	0.50	34.2																													
[2]	MH 41F	0+977.940	22.804 RT	1200	265.825	263.199	2.626	R–1733	CB 41	0.50	27.4																													
[8]	EX 41G	1+035	14.063 LT	EXIST	265.296	264.073	–	–	EXIST	–																													
[6]	CB 41H	1+035	2.131 RT	1200	265.149	264.155	0.993	R–3250	CB 41G	0.50				7.4																									
[6]	CB 41I	1+035	3.573 RT	1200	265.296	264.164	1.132	R–3250	CB 41H	0.30				1.4																									
[8]	EX 41J	1+035	12.490 LT	EXIST	265.296	264.213	–	–	CB 41I	0.50	8.9																													
[6]	CB 42	2+664	2.885 RT	1200	265.314	262.859	2.455	R–3250	CB 44	1.00	23.2																													
[6]	CB 44	2+664	15.900 LT	1950	265.332	260.991	4.341	R–3250	CB 47	0.20																													
[6]	CB 45	2+710	16.685 RT	1200	265.100	263.800	1.300	R–3250	CB 46	0.50	13.8																													
[6]	CB 46	2+710	20.285 LT	1200	265.010	263.710	1.300	R–3250	CB 47	0.50	23.2																													
[6]	CB 47	2+710	2.885 RT	1950	264.992	260.899	4.093	R–3250	CB 51	0.20																													
[6]	CB 48	2+757	20.285 RT	1200	264.681	263.381	1.300	R–3250	CB 49	0.50	19.4																													
[6]	CB 49	2+757	0.877 RT	1200	264.757	263.234	1.523	R–3250	CB 50	0.50	1.4																													
[6]	CB 50	2+757	0.560 LT	1200	264.749	263.177	1.572	R–3250	CB 51	0.75	17.8																													
[6]	CB 51	2+757	18.330 LT	1950	264.730	260.805	3.925	R–3250																																

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

1 OF 4

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	REVISED QUANTITIES PER MN/DOT COMMENTS
2	JJL	2/11/00	ADDEND 1: CHANGED PIPE CLASS FOR ARCH PIPE, ADDED SEWER STUB, LOWERED LATERAL
3	JJL	2/16/00	ADDEND 2: MODIFIED CASTING ASSEMBLY FOR 7BA & 7BC
4	JJL	3/8/00	ADDED CURB BOXES AND MOVED CB'S AT LOW POINTS
5	JJL	3/21/00	MOD. MH 67 LOCATION AND ASSOCIATED PIPE LENGTHS
6	JJL	4/6/00	MOD.REQ.#6: MODIFIED SIZE OF CB 12,13,20,33
7	JJL	6/08/00	MOD.REQ.#7: ADD CB 41G,41H,41I,41J
8	JJL	7/07/00	MOD.REQ.#8: ADDED STUB TO CB 23
9	JJL	04/04/01	MOD. REQ. #3: ADDED STUB TO CB 40
10	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM
DESIGN BY: JJL
CHKD. BY: KPK
DWG. NAME: 242TAB15
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 326.16

Kevin P. Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H 14/TH 242)
TABULATED QUANTITIES
DRAINAGE TABULATION

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 216 / 539

PLOT DATE: Aug 4, 2004 9:02am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242tab15.dwg

REF DRAWINGS
SAPBOX

DRAINAGE TABULATION

Z

NOTES	STRUCTURE								DRAINS TO			375mm RCP CL III	375mm RCP CL IV	375mm RCP CL V	450mm RCP CL II	450mm RCP CL III	450mm RCP CL IV	450mm RCP CL V	560mm Span RCP–ARCH CL IIA	525mm RCP CL II	525mm RCP CL IV	600mm RCP CL III	600mm RCP CL IV	750mm RCP CL II	750mm RCP CL IV	900mm RCP CL II	900mm RCP CL III	900mm RCP CL IV	900mm RCP CL V	1050mm RCP CL II	1050mm RCP CL III	1200mm RCP CL II	1200mm RCP CL III	1485mm Span RCP – ARCH CL IIA	1350mm RCP CL III	1350mm RCP CL IV	1500mm RCP CL IV	1500mm RCP CL V	RCP APRON & TRASH GUARD [9] EACH	RIP RAP CL III	FILTER FABRIC TYPE IV
	STRUCT NO.	STATION [1]	OFFSET [1]	STRUCT. DESIGN	RIM ELEV.	LOW STRUCT. ELEV.	PAY HEIGHT m	F & I CAST ASSY	STRUCT. NO.	SLOPE %		m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	EACH	m3	m2
[4][6]	CB 52	2+800.700	20.285 RT	1200	264.446	263.151	1.295	R–3250	CB 53	0.50	3.0																														
[4][6]	CB 53	2+803.700	20.285 RT	1200	264.446	263.086	1.360	R–3250	CB 55	0.50	23.2																														
[4][6]	CB 54	2+800.700	2.885 LT	1200	264.428	263.133	1.295	R–3250	CB 55	0.50	3.0																														
[4][6]	CB 55	2+803.700	2.885 LT	1200	264.428	262.920	1.508	R–3250	CB 57	0.75	1.4																														
[4][6]	CB 56	2+800.700	4.315 LT	1200	264.608	263.313	1.295	R–3250	CB 57	0.50	3.0																														
[4][6]	CB 57	2+803.700	4.315 LT	1200	264.608	262.859	1.749	R–3250	CB 59	1.00	12.4																														
[4][6]	CB 58	2+800.700	16.685 LT	1200	264.[illegible]	263.241	1.295	R–3250	CB 59	0.50	3.0																														
[4][6]	CB 59	2+803.700	16.685 LT	1950	264.536	[illegible]712	3.824	R–3250	CB 62	0.25																															
[6]	CB 60	2+845	20.300 RT	1200	264.649	263.3[illegible]	1.300	R–3250	CB 61	0.50	23.2																														
[6]	CB 61	2+845	2.885 LT	1200	264.631	263.183	[illegible]48	R–3250	CB 62	0.50	13.8																														
[6]	CB 62	2+845	16.685 LT	1950	264.739	260.609	4.130	R–3250	MH 67	0.25																															
[6]	CB 63	2+870	2.885 LT	1200	264.812	263.512	1.300	R–3250	CB 61	0.50	25.0																														
[6]	CB 64	2+926.121	23.863 RT	1200	265.106	262.615	2.491	R–3250	CB 65	0.40					20.5																										
[6]	CB 65	2+920	4.315 RT	1200	265.299	262.483	2.816	R–3250	CB 66	0.50					1.4																										
[6]	CB 66	2+920	2.885 RT	1200	265.119	262.426	2.693	R–3250	MH [illegible]	0.75					22.3																										
[2]	MH 67	2+908	15.900 LT	2400	265.220	260.437	4.783	R–1733	CB 78	[illegible]15																														
[6]	CB 68	2+926	20.285 LT	1200	265.176	263.876	1.300	R–3250	MH 67	1.50	18.5																												144.0				
[6]	CB 69	2+988	20.285 RT	1200	265.579	264.279	1.300	R–3250	CB 70	0.50	[illegible]																														
[6]	CB 70	2+988	4.315 RT	1200	265.741	264.149	1.592	R–3250	CB 71	0.50	1.4																														
[6]	CB 71	2+988	2.885 RT	1200	265.561	264.137	1.424	R–3250	CB 76	0.50																														
[4][6]	CB 72A	3+001	29.647 LT	1200	265.832	264.755	1.195	R–3250	CB 72B	0.50	3.0																														
[4][6]	CB 72B	2+998	29.647 LT	1200	265.832	264.690	1.260	R–3250	CB 72	1.00	13.7																														
[6]	CB 72	2+988	20.285 LT	1200	265.579	264.303	1.276	R–3250	CB 71	0.50					[illegible]2																										
	STUB	3+052	32.220 RT	–	–	261.392	–	–	CB 73	0.75																														
[6]	CB 73	3+052	20.285 RT	1200	266.082	261.252	4.830	R–3250	CB 75	1.00													11.9																	
[6]	CB 74	3+055	20.285 RT	1200	266.112	264.812	1.300	R–3250	CB 73	0.50	3.0												16.0																	
[6]	CB 75	3+052	4.315 RT	1200	266.244	261.043	5.201	R–3250	CB 76	1.00																														
[6]	CB 76	3+052	2.758 RT	1350	266.064	260.977	5.087	R–3250	CB 78	0.75													1.6																	
[6]	CB 77	3+055	2.558 RT	1200	266.098	264.798	1.300	R–3250	CB 76	0.50	3.0														19.4															
[4][6]	CB 78B	3+051	29.647 LT	1200	265.800	264.305	1.495	R–3250	CB 78A	0.75					3.0																										
[4][6]	CB 78A	3+054	29.647 LT	1200	265.800	263.650	2.150	R–3250	CB 78	0.75										13.0																				
[6]	CB 78	3+052	16.684 LT	2100	266.172	260.222	5.950	R–3250	CB 93	0.15																														
[6]	CB 79	3+055	16.684 LT	1200	266.202	264.902	1.300	R–3250	CB 78	0.50	3.0																													153.0			
[6]	CB 80	3+160	20.285 RT	1200	268.788	267.480	1.308	R–3250	CB 81	0.50	3.0																														
[6]	CB 81	3+163	20.285 RT	1200	268.841	267.415	1.426	R–3250	CB 82	0.75	16.0																														
[6]	CB 82	3+163	4.315 RT	1200	269.003	267.245	1.758	R–3250	CB 83	0.75	8.6																														
[6]	CB 83	3+163	4.314 RT	1200	269.003	267.131	1.872	R–3250	CB 85	1.00	16.0																														
[6]	CB 84	3+160	20.284 LT	1200	268.788	267.480	1.308	R–3250	CB 85	0.50	3.0																														
[4][6]	CB 85B	3+167.254	37.476 LT	1200	266.588	264.467	2.121	R–3250	CB 85	0.75			17.7																												
[6]	CB 85	3+163	20.284 RT	1350	268.841	264.299	4.542	R–3250	CB 93	1.00								42.[illegible]																						
[6]	CB 86	8+076	3.185 RT	1200	270.653	269.353	1.300	R–3250	CB 87	0.50	23.2																														
[6]	CB 87	3+293	19.085 RT	1200	271.140	269.187	1.953	R–3250	CB 89	0.75	17.8																														
[6]	CB 88	3+296	19.085 RT	1200	271.158	269.863	1.295	R–3250	CB 87	0.50	3.0																														
[6]	CB 89	3+303	4.315 RT	1200	271.390	269.003	2.387	R–3250	CB 90	0.75	1.4																														
[6]	CB 90	3+303	2.885 RT	1200	271.210	268.942	2.268	R–3250	CB 91	1.00	36.4																														
[6]	CB 91	3+274	19.085 LT	1200	270.947	268.529	2.418	R–3250	CB 93	0.75																														
[6]	CB 92	3+277	19.085 LT	1200	270.970	269.675	1.295	R–3250	CB 91	0.50	3.0																														
[6]	CB 93	3+205	16.684 LT	2100	269.928	259.993	9.935	R–3250	MH 94	0.15						69.0																									
[2][7]	MH 94	3+292.491	67.300 LT	2100	263.618	259.841	3.777	R–1733	MH 95	0.15																														
[2]	MH 95	3+337.351	101.970 LT	2400	263.350	259.756	3.594	R–1733	FES 96	0.15																														
	FES 96	3+558.367	57.633 LT	–	–	259.418	–	–	–	–																														
	MAIN STREET (TH 242)																																						
[6]	CB 101	3+513	19.085 RT	1200	269.792	268.497	1.295	R–3250	CB 102	[illegible]50	3.0																														
[6]	CB 102	3+510	19.085 RT	1200	269.834	268.432	1.402	R–3250	CB [illegible]	0.50	28.4																														
[6]	CB 103	3+493	2.885 LT	1200	270.176	268.240	1.936	R–3250	[illegible] 104	0.60	1.4																														
[6]	CB 104	3+493	4.315 LT	1200	270.356	268.181	2.175	R–3250	CB 106	1.00	16.8																														
[6]	CB 105	3+498	19.085 LT	1200	270.075	268.780	1.295	R–3250	CB 106	0.50	3.0																														
[6]	CB 106	3+501	19.085 LT	1200	270.036	267.963	2.073	R–3250	CB 111	2.50	94.0																														
[6]	CB 107	3+595	19.085 RT	1200	267.601	266.397	[illegible]204	R–3250	CB 109	0.50	15.4																														
[6]	CB 108	3+592	3.715 RT	1200	267.834	266.[illegible]	1.300	R–3250	CB 109	0.50	3.0																														
[6]	CB 109	3+595	3.715 LT	1200	267.769	[illegible].270	1.499	R–3250	CB 110	0.75	8.0																														
[6]	CB 110	3+595	4.315 LT	1200	267.[illegible]	266.160	1.609	R–3250	CB 111	1.00	16.0																														
[6]	CB 111	3+595	20.285 LT	1200	[illegible].607	264.063	3.544	R–3250	MH 112	2.50								23.9																						
[2]	MH 112	3+611.325	37.775 LT	1200	264.250	260.561	3.689	R–1733	FES 113	0.50																														
	FES 113	3+619.649	46.690 LT	–	–	260.500	–	–	–	–																														
[6]	CB 114	3+735	19.085 [illegible]	1200	263.271	262.022	1.249	R–3250	CB 115	0.25	16.6												12.2																	
[6]	CB 115	3+735	[illegible]5 RT	1200	263.487	261.931	1.556	R–3250	CB 116	0.35	8.0																														
[6]	CB 116	3+7[illegible]	4.315 LT	1200	263.487	261.853	1.634	R–3250	CB 119	0.90					50.0																										
[6]	CB 117	[illegible]735	19.085 LT	1200	263.319	262.019	1.300	R–3250	CB 116	0.40	14.8																														
[6]	CB 118	3+785	0.802 LT	1200	262.628	261.378	1.250	R–3250	CB 119	0.50	3.5																														
[6]	CB 119	3+785	4.315 LT	1200	262.755	261.353	1.402	R–3250	CB 121	0.90					55.0																										
[6]	CB 120	3+840	19.085 RT	1200	262.281	260.981	1.300	R–3250	CB 121	0.50	22.0																														
[6]	CB 121	3+840	2.885 LT	1350	262.259	260.808	1.461	R–3250	CB 122	0.45																														
[6]	CB 122	3+840	19.085 LT	1200	262.281	260.685	1.596	R–3250	FES 123	0.75										16.2																				
	FES 123	3+863.830	32.182 LT	–	–	260.481	–	–	–	–										27.2																				
[6]	CB 124	3+895	2.885 LT	1200	261.979	260.679	1.300	R–3250	CB 125	0.40	1.4																												525	4.8	12.5	

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	REVISED QUANTITIES PER MN/DOT COMMENTS
2	JJL	2/11/00	ADDEND/1 CHANGED PIPE CLASS FOR ARCH PIPE, ADDED SEWER STUB, LOWERED LATERAL SYSTEM AND MODIFIED PIPE SIZES.
3	JJL	2/16/00	ADDEND/2 MODIFIED CASTING ASSEMBLY FOR 78A & 78C
4	JJL	3/8/00	ADDED CURB BOXES AND MOVED CB'S AT LOW POINTS
5	JJL	3/21/00	MOD. MH 67 LOCATION AND ASSOCIATED PIPE LENGTHS
6	JJL	4/06/00	MOD. REQ. #8: MOD. PIPE SIZE FROM CB 78A TO CB 78
7	JJL	4/17/00	MOD. REQ. #10: MOD. CB 68
8	JJL	7/5/00	MOD. REQ. #36: DELETED CB 78C & 85A,ADDED CB 85B
9	JJL	7/7/00	MOD. REQ. #46: ADDED STUB TO CB 23
10	JJL	04/04/01	MOD. REQ. #83: ADDED STUB TO CB 40
11	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242TAB16
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)37D–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H 14/TH 242)
TABULATED QUANTITIES
DRAINAGE TABULATION

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

2 OF 4
SHEET NO. 217 / 539

PLOT DATE: Aug --, 2004 8:59am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242tab16.dwg

XREF DRAWINGS
SAPBOX

DRAINAGE TABULATION

Z

NOTES	STRUCTURE NO.	STATION [1]	OFFSET [1]	STRUCT. DESIGN	RIM ELEV.	LOW STRUCT. ELEV.	PAY HEIGHT	F & I CAST ASSY	STRUCT. NO.	SLOPE %	375mm RCP CL III m	375mm RCP CL IV m	375mm RCP CL V m	450mm RCP CL II m	450mm RCP CL III m	450mm RCP CL IV m	450mm RCP CL V m	560mm Span RCP–ARCH CL IIA m	525mm RCP CL II m	525mm RCP CL IV m	600mm RCP CL III m	600mm RCP CL IV m	750mm RCP CL II m	750mm RCP CL IV m	900mm RCP CL II m	900mm RCP CL III m	900mm RCP CL IV m	900mm RCP CL V m	1050mm RCP CL II m	1050mm RCP CL III m	1200mm RCP CL II m	1200mm RCP CL III m	1485mm Span RCP – ARCH CL IIA m	1350mm RCP CL III m	1350mm RCP CL IV m	1500mm RCP CL IV m	1500mm RCP CL V m	RCP ARCH & TRASH GUARD [9] EACH	RIPRAP CL III m3	FILTER FABRIC TYPE IV m2
[6]	CB 125	3+895	4.315 LT	1200	262.159	260.673	1.486	R–3250																																
[4][6]	CB 126	3+948	19.085 LT	1200	261.791	260.496	1.295	R–3250	CB 127	0.50	3.0																														
[4][6]	CB 127	3+951	19.085 LT	1200	261.791	260.481	1.310	R–3250	CB 129	0.40	22.0																														
[4][6]	CB 128	3+948	2.885 LT	1200	261.779	260.484	1.295	R–3250	CB 129	0.50	3.0																														
[4][6]	CB 129	3+951	2.885 LT	1200	261.779	260.393	1.386	R–3250	CB 131	0.50					1.4																									
[4][6]	CB 130	3+949	4.315 LT	1350	261.959	260.368	1.591	R–3250	CB 132	0.25									14.8																				
[4][6]	CB 131	3+952	4.315 LT	1200	261.959	260.386	1.573	R–3250	CB 130	0.60					3.0																									
[4][6]	CB 132	3+949	19.085 LT	1200	261.791	260.331	1.460	R–3250	FES 135	0.60									15.6																				
[4][6]	CB 133	3+952	19.085 LT	1200	261.791	260.496	1.295	R–3250	CB 132	0.50	3.0																														
[6]	CB 134	3+983	2.885 LT	1200	261.890	260.584	1.306	R–3250	CB 129	0.50	32.0																														
	FES 135	3+956.481	32.751 LT	–	–	260.237	–	–	–	–																														
	NORTHDALE BOULEVARD							R–1733																															525	4.8	12.5
[2][8]	CB 30A	0+828.791	11.684 RT	–					–																														
[3][4]	CB 201	0+829.500	14.036 RT	1200	264.226	262.726	1.500	R–3067	EX. 30A	0.50	2.5																														
[3][4]	CB 202	0+852	11.195 LT	1200	264.406	263.185	1.221	R–3067	CB 204	0.60	2																														
[3][4]	CB 204	0+858.031	13.265 RT	1200	264.508	262.857	1.651	R–3067	EX. 30A	1.30	30.0																														
[2][8]	MH 204A	0+855.678	19.837 RT	1200	264.650	262.959	1.691	R–1733	CB 204	0.80	7.0																														
[3][4]	CB 205	0+897	13.167 LT	1200	264.683	263.454	1.229	R–3067	CB 206	0.50	12.6																														
[3][4]	CB 206	0+897	0.519 LT	1200	264.720	263.341	1.380	R–3067	CB 207	0.50	17.2																														
[3][4]	CB 207	0+897	16.634 RT	1200	264.643	263.205	1.438	R–3067	CB 208	0.50	71.3																														
[6]	CB 208	0+968	20.660 RT	1200	264.760	262.799	1.961	R–3250	CB 64	0.50	13.7																														
[4][6]	CB 209	0+974.100	14.917 LT	1200	264.781	263.531	1.250	R–3250	CB 210	0.50	11.9																														
[6]	CB 210	0+974.100	2.974 LT	1200	264.840	263.421	1.419	R–3250	CB 208	0.50	24.4																														
[3][4]	CB 212	1+074.148	16.779 LT	1200	264.038	262.793	1.245	R–3067	CB 213	0.50	3.0																														
[3][4]	CB 213	1+071.148	16.779 LT	1200	264.038	262.728	1.310	R–3067	CB 215	0.50	19.6																														
[3][4]	CB 214	1+074.148	2.821 RT	1200	264.128	262.878	1.250	R–3067	CB 215	0.50	3.0																														
[3][4]	CB 215	1+071.148	2.821 RT	1200	264.128	262.580	1.548	R–3067	CB 217	0.50	10.2																														
[3][4]	CB 216	1+074.148	13.021 RT	1200	264.162	262.912	1.250	R–3067	CB 217	0.50	3.0																														
	STUB	1+071.148	25.850 RT	–	–	262.072	–	–	CB 217	0.50									12.8																				
[3][4]	CB 217	1+071.148	13.021 RT	1350	264.163	260.508	3.655	R–3067	MH 67	0.13															54.8														
[3][4]	CB 218	1+122	13.622 LT	1200	264.549	263.299	1.250	R–3067	CB 219	0.50	17.8																														
[3][4]	CB 219	1+133.514	0.000 RT	1200	264.613	263.160	1.453	R–3067	CB 220	0.50	17.4																														
[3][4]	CB 220	1+122	13.021 RT	1350	264.555	260.574	3.981	R–3067	CB 217	0.13																														
[3][4]	CB 221	1+172	13.179 LT	1200	264.983	263.733	1.250	R–3067	CB 222	0.50	12.4																50.9													
[3][4]	CB 222	1+172	0.779 LT	1200	265.036	263.621	1.415	R–3067	CB 223	0.50	3.2																														
[3][4]	CB 223	1+172	2.420 RT	1200	265.082	263.555	1.527	R–3067	CB 224	0.50	10.6																														
	STUB	1+159.871	25.850 RT	–	–	264.240	–	–	CB 224	2.50			18.5																												
[3][4]	CB 224	1+172	13.021 RT	1350	264.982	260.639	4.343	R–3067	CB 220	0.13																50.0													
[3][4]	CB 225	1+231	13.179 LT	1200	265.482	264.232	1.250	R–3067	CB 226	0.50	13.8																														
[3][4]	CB 226	1+231	0.621 RT	1200	265.537	264.113	1.425	R–3067	CB 227	0.50	12.4																														
	STUB	1+231	25.850 RT	–	–	264.496	–	–	CB 227	2.50																														
[3][4]	CB 227	1+231	13.021 RT	1350	265.484	260.716	4.768	R–3067	CB 224	0.13			12.9																												
[3][4]	CB 228	1+286	13.144 LT	1200	266.010	264.760	1.250	R–3067	CB 229	0.50	3.0																														
[3][4]	CB 229	1+283	13.165 LT	1200	265.981	264.695	1.286	R–3067	CB 231	0.50	24.9																59.0													
[3][4]	CB 230	1+286	11.566 RT	1200	266.010	264.760	1.250	R–3067	CB 231	0.50	3.0																														
	STUB	1+283	25.850 RT	–	–	263.000	–	–	CB 231	0.50																														
[3][4]	CB 231	1+283	11.687 RT	1350	265.981	260.783	5.198	R–3067	CB 227	0.13									14.2																				
[2]	CB 232	1+333	11.541 LT	1200	267.120	265.870	1.250	R–1733	CB 233	0.50	20.7																52.1													
	STUB (E)	1+337.404	19.129 RT	–	–	260.866	–	–	POND	0.15																														
	STUB (N)	1+338.859	8.676 RT	–	–	265.090	–	–	CB 233	1.50	6.0											10.9																		
[2]	CB 233	1+333	9.183 RT	1350	267.120	260.850	6.270	R–1733	CB 231	0.13																														
	124TH AVENUE / CROOKED LAKE BOULEVARD																											51.2											
[3][4]	CB 301	1+542.138	6.200 RT	1200	265.628	264.428	1.200	R–3067	CB 302	0.40	3.0																														
[3][4]	CB 302	1+545.138	6.200 RT	1200	265.628	264.366	1.262	R–3067	CB 304	0.40	12.4																														
[3][4]	CB 303	1+542.138	6.200 LT	1200	265.628	264.428	1.200	R–3067	CB 304	0.40	3.0																														
[3][4]	CB 304	1+545.138	6.200 LT	1200	265.628	264.266	1.362	R–3067	CB 305	0.25									8.2																				
	FES 305	1+550.739	11.832 LT	–	–	264.246	–		–	–																														
[3]	CB 306	1+760	6.200 RT	1200	265.826	264.414	1.412	R–3067	CB 308	2.00	67.7																												525	4.8	12.5
[3]	CB 307	1+760	6.200 LT	1200	265.826	264.526	1.300	R–3067	CB 306	0.50	12.4																														
[3]	CB 308	1+830	7.062 RT	1200	264.350	263.010	1.340	R–3067	CB 309	2.10	54.5																														
[3]	CB 309	1+888.001	8.091 RT	1200	263.081	261.651	1.430	R–3067	FES 311	0.50	11.7																														
[3]	CB 310	1+888.001	8.004 LT	1200	263.081	261.781	1.300	R–3067	CB 309	0.50	16.1																														
	FES 311	1+892.934	18.770 RT	–		261.592	–	–	–	–																														
	COON CREEK BOULEVARD (CSAH 18)																																					375	3.4	8.5
[4][6]	CB 400	1+283.307	19.760 LT	1200	261.774	260.879	0.895	R–3250	CB 401	0.35	13.2																														
[4][6]	CB 401	1+270.132	19.759 LT	1200	261.752	260.783	0.969	R–3250	CB 402	0.35	21.1																														
[4][6]	CB 402	1+258.000	2.475 LT	1200	262.038	260.659	1.378	R–3250	CB 403	0.35	1.5																														
[4][6]	CB 403	1+258.000	16.238 LT	1200	262.038	260.604	1.434	R–3250	CB 404	0.40	19.4																														
[4][6]	CB 404	1+273.000	11.238 RT	1200	261.765	260.476	1.289	R–3250	MH 407	0.50						19.1																								
[4][6]	CB 405	1+291.500	2.442 LT	1200	262.068	260.506	1.562	R–3250	CB 406	0.50	3.7																														
[4][6]	CB 406	1+291.500	1.284 RT	1200	262.068	260.437	1.630	R–3250	MH 407	0.55	10.1																														
[2][8]	MH 407	1+292.151	11.380 RT	1200	262.286	260.331	1.955	R–1733	MH 408	0.60							38.4																								
	MAIN STREET (TH 242)																																						
	FES 501	3+970	39.257 LT	–	–	259.260	–	–	FES 502	0.10																														
	FES 502	4+048.189	47.283 LT	–	–	259.181	–	–	–	–																														
	FES 503	3+970	42.257 RT	–	–	259.260	–	–	FES 504	0.10																														

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78.6 — 1485 Span A — 18.6 — 45.0
78.6 — 1485 Span A — 18.6 — 45.0
1485 Span A — 18.6 — 45.0

REV. NO.	BY	DATE.	REVISIONS DESCRIPTION
1	JJL	12/30/99	REVISED QUANTITIES PER MN/DOT COMMENTS
2	JJL	2/11/00	ADDENDA: CHANGED PIPE CLASS FOR ARCH PIPE, ADDED SEWER STUB, LOWERED LATERAL SYSTEM AND MODIFIED PIPE SIZES.
3	JJL	3/8/00	ADDED CURB BOXES AND MOVED CB'S AT LOW POINTS, REVISED CASTING TYPES, ADDED MH 204A, MOD. INVERTS
4	JJL	3/21/00	MODIFIED CB217 TO MH67 PIPE LENGTH
5	JJL	4/06/00	MOD. REQ. #8: MOD. CB 233, MOVED STUB(E) TO CB 233
6	JJL	5/15/00	MOD.REQ.#28: MOVED CB 404
7	JJL	5/25/00	MOD.REQ.#106: MOD. STUBS IN NORTHDALE BLVD
8	JJL	6/01/00	MOD.REQ.#27: DELETE CB 203, MOD. CB 206, MOD. RE & IE'S
9	JJL	04/04/01	MOD.REQ.#83: ADDED STUB TO CB 40
10	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242TAB17
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
TH 242, NORTHDALE BLVD, 124TH AVE/
CROOKED LAKE BLVD, COON CREEK BLVD
TABULATED QUANTITIES
DRAINAGE TABULATION
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

3 OF 4
SHEET NO. 218 / 539

PLOT DATE: Aug 26, 2004 8:53am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242tab17.dwg

SAPBOX

DRAINAGE TABULATION

Z

NOTES	STRUCTURE										375mm RCP CL III	375mm RCP CL IV	375mm RCP CL V	450mm RCP CL II	450mm RCP CL III	450mm RCP CL IV	450mm RCP CL V	560mm Span RCP--ARCH CL IIA	525mm RCP CL II	525mm RCP CL IV	600mm RCP CL III	600mm RCP CL IV	750mm RCP CL II	750mm RCP CL IV	900mm RCP CL II	900mm RCP CL III	900mm RCP CL IV	900mm RCP CL V	1050mm RCP CL II	1050mm RCP CL III	1200mm RCP CL II	1200mm RCP CL III	1485mm Span RCP -- ARCH CL IIA	1350mm RCP CL III	1350mm RCP CL IV	1500mm RCP CL IV	1500mm RCP CL V	RCP APRON & TRASH GUARD [9]	RIPRAP CL III	FILTER FABRIC TYPE IV
	STRUCT NO.	STATION [1]	OFFSET [1]	STRUCT. DESIGN	RIM ELEV.	LOW STRUCT. ELEV.	PAY HEIGHT	F & I CAST ASSY	STRUCT. NO.	SLOPE %	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	EACH	m3	m2
	FES 504	4+048.189	50.283 LT	--	--	259.181	--	--	--	--																										1485 Span A	18.6	45.0
	FES 505	3+974	33.035 RT	--	--	260.178	--	--	FES 506	0.30														58.0												900	10.6	24.5
	FES 506	4+032	31.283 RT	--	--	260.004	--	--	--	--																										900	10.6	24.5
	FES 507	3+974	30.533 RT	--	--	260.178	--	--	FES 508	0.30														58.0												900	10.6	24.5
	FES 508	4+032	28.782 RT	--	--	260.004	--	--	--	--																										900	10.6	24.5
	FES 513	3+758.231	33.831 RT	--	--	260.825	--	--	FES 514	0.30														34.5												900	10.6	24.5
	FES 514	3+792.609	31.554 RT	--	--	260.722	--	--	--	--																										900	10.6	24.5
	FES 1000	4+105.688	94.659 LT	--	--	259.150	--	--	FES 1001	0.20											14.6															900	10.6	24.5
	FES 1001	4+123.630	98.578 LT	--	--	259.113	--	--	--	--																										600	6.3	15.5
	FES 1002	4+106.041	92.689 LT	--	--	259.150	--	--	FES 1003	0.20											14.6															600	6.3	15.5
	FES 1003	4+123.950	96.600 LT	--	--	259.113	--	--	--	--																										600	6.3	15.5
	FES 1004	4+239.660	44.590 LT	--	--	259.100	--	--	FES 1005	0.15										19.5																600	6.3	15.5
	FES 1005	4+257.690	29.915 LT	--	--	259.065	--	--	--	--																										525	4.8	12.5
	FES 1006	4+238.810	42.704 LT	--	--	259.100	--	--	FES 1007	0.15										19.5																525	4.8	12.5
	FES 1007	4+256.860	28.047 LT	--	--	259.065	--	--	--	--																										525	4.8	12.5
	TH 10/47 AND TH 242 INTERCHANGE																																			525	4.8	12.5
[11]	FES A1	8+054.489	77.445 RT	--	--	263.090			EX.CULV.	0.39											22.9															600		
[5]	CB B1	8+310	7.800 LT	1200	268.144	264.508	3.636	M4154B	FES B2	1.50		33.9																											
	FES B2	8+310	26.072 RT	--	--	264.000	--	--	--	--																										375	3.4	8.5
[5]	CB B3	8+390	7.800 LT	1200	266.001	264.727	1.274	M4154B	FES B4	1.00	22.7																												
	FES B4	8+390	14.900 RT	--	--	264.500	--	--	--	--																										375	3.4	8.5
[5]	CB B5	8+465	6.386 LT	1200	265.244	264.144	1.100	M4154B	CB B6	0.35	103.1																												
[5]	CB B6	8+568	2.400 LT	1200	264.809	263.783	1.026	M4154B	FES B7	0.35	7.5																												
	FES B7	8+571.698	8.925 LT	--	--	263.757	--	--	--	--																										375	3.4	8.5
	FES B8	8+255.402	42.438 RT	--	--	262.315	--	--	MH B9	0.65														12.4												900		
[2],[8]	MH B9	8+250.641	31.219 RT	1350	264.500	262.235	2.265	R-1733	EX. CULV.	--																												
[2],[8]	MH B10	8+246.930	39.295 LT	1350	267.250	261.769	5.481	R-1733	FES B11	0.65																												
	FES B11	8+269.559	73.513 LT	--	--	261.513	--	--	--	--																		39.4									
	EX.CULV.	8+224.969	94.744 RT	--	--	262.820	--	--	FES B12	0.39											15.0															900	10.6	24.5
[11]	FES B12	8+237.667	86.728 RT	--	--	262.761	--	--	--	--																												
[11]	FES C1	7+720.181	8.757 RT	--	--	264.392	--	--	CB C2	0.21																											600		
[5]	CB C2	7+753.880	2.700 RT	1200	265.005	264.320	0.685	M4154B	CB C3	0.21								34.2																		560 Span A		
[5]	CB C3	7+756.880	2.700 RT	1200	265.005	264.314	0.691	M4154B	CB C4	0.21								3.0																				
[5]	CB C4	7+827.000	2.700 RT	1200	265.65	264.165	1.485	M4154B	FES C5	0.21								71.0																				
[11]	FES C5	7+875.290	16.464 LT	--	--	264.055	--	--	--	--								52.5																				
	FES C6	7+960	26.000 RT	--	--	265.208	--	--	FES C7	2.50			60.0																								560 Span A	4.6	15.5
	FES C7	7+960	34.000 LT	--	--	263.708	--	--	--	--																										375	3.4	8.5
[11]	FES C8	8+015.565	65.416 LT	--	--	263.60	--	--	EX.CULV.	0.88																										375	3.4	8.5
[5]	CB D1	8+240	4.385 RT	1200	266.313	265.013	1.300	M4154B	CB D3	1.50	75.5										17.2															600		
	FES D2	8+319.720	21.153 RT	--	--	263.560	--	--	CB D3	0.38									17.1																			
[5]	CB D3	8+316.266	4.385 RT	1200	265.492	263.495	1.997	M4154B	FES D4	0.48									19.0																	525		
[10]	FES D4	8+314.656	14.545 LT	--	--	263.404	--	--	--	--																												
[5]	CB D5	8+319.266	4.385 RT	1200	265.492	264.192	1.300	M4154B	CB D3	0.50	3.0																									525	4.8	12.5
[5]	CB D6	8+316.656	4.385 RT	1200	264.956	263.856	1.100	M4154B	FES D7	0.30	19.0																												
	FES D7	7+519.435	17.280 RT	--	--	263.799	--	--	--	--																										375	3.4	8.5
	EX.CULV.	8+129.278	69.439 LT	--	--	263.060	--	--	FES D8	0.88											17.5															600		
	FES D8	8+145.896	63.943 LT	--	--	262.905	--	--	--	--																												
	PIPE TOTALS										2184.3	51.6	91.4	278.5	69.0	23.9	42.2	160.7	237.9	61.7	114.6	89.5	84.3	128.1	162.9	54.8	251.4	51.2	46.0	51.0	243.1	167.1	157.2	181.0	168.1	200.7	479.5		40	312.9 (12)	789.0 (13)

NOTE:
[1] LOCATIONS AND OFFSETS ARE TO BACK OF CURB FOR ALL CATCH BASINS AND TO CENTER OF STRUCTURE FOR ALL MANHOLES
[2] R-1733 DENOTES NEENAH R-1733 SERIES MANHOLE FRAMES WITH VENTED LIDS OR APPROVED EQUAL
[3] R-3067 DENOTES NEENAH R-3067 CASTING WITH DR/ DL GRATE OR APPROVED EQUAL
[4] CONSTRUCT WITH CURB BOX
[5] M4154B REFERS TO MNDOT STANDARD PLATE M4154B.
[6] R-3250 DENOTES NEENAH R-3250A CASTING OR APPROVED EQUAL
[7] JACKED
[8] CONNECT TO EXISTING STORM SEWER
[9] INSTALL GUIDE POST TYPE B AT EACH APRON
[11] INSTALL SAFETY APRON WITH GRATE -- REFER TO MNDOT STANDARD PLATE M3128F
[12] INCLUDES 46 m3 FOR LOW FLOW CHANNEL IN PROPOSED POND
[13] INCLUDES 140 m2 FOR LOW FLOW CHANNEL IN PROPOSED POND

FURNISH AND INSTALL CASTING ASSEMBLIES

Z2

CASTING ASSEMBLY (2)	SAP 02-614-19 SAP 114-020-19 MAIN ST. (CSAH 14)	SAP 0212-40 (TH242=242) SAP 114-010-11 MAIN ST. INTERCHANGE	MAIN ST. RAMPS TO COON CREEK BLVD.	SAP 02-618-24 COON CREEK BOULEVARD	SAP [illegible]-127-02 NORTHDALE BOULEVARD	SAP 114-136-02 124th AVENUE NW/ CROOKED LAKE BLVD.	TOTAL
R-1733	17 (1)	2	1		6 (5)		27
R-3067 DR/DL	10				26	9	45
R-3250A	97	4	31	7			139 (4)
M4154B (3)		11					11
R-4990-AX		4					4

(1) INCLUDES 7 CASTINGS FOR SANITARY SEWER
(2) REFERS TO NEENAH CASTINGS OR APPROVED EQUALS
(3) REFERS TO MNDOT STANDARD PLATE M4154B (GRATE) AND M4132F (CASTING)
(4) REQUIRES 45 CURB BOXES AND 94 STEEL PLATES
(5) INCLUDES 3 CASTINGS FOR SANITARY SEWER

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DRAINAGE TABULATION -- SPECIAL BRIDGE STORM SEWER

Z3

NOTES	STRUCTURE								DRAINS TO						
	STRUCT NO.	STATION [1]	OFFSET [1]	STRUCT. DESIGN	RIM ELEV. [6]	LOW STRUCT. ELEV.	PAY HEIGHT	F & I CAST ASSY	STRUCT. NO.	SLOPE %	300 mm CMP	300 mm CMP BEND--45°	300 mm CMP BEND--33½°	METAL APRON [4]	RIPRAP CL III	FILTER FABRIC TYPE IV
							m				m	EACH	EACH	EACH	m3	m2
[3],[5]	CB A2	3+412.577	22.440 L	SPECIAL	271.200	270.336	0.864	R-4990AX	FES A3	--	27.0	2.0	1.0			
[7]	FES A3	3+389.300	31.500 L	--		263.400		--	--					300	3.6	7.5
[3],[5]	CB B13	3+446.258	21.255 R	SPECIAL	270.850	269.986	0.864	R-4990AX	FES B14	--	17.0	0.0	2.0			
[7]	FES B14	3+443.000	35.800 R	--		263.300		--	--					300	3.6	7.5
[3],[5]	CB C9	3+317.143	22.440 L	SPECIAL	271.250	270.386	0.864	R-4990AX	FES C10	--	15.0	1.0	1.0			
[7]	FES C10	3+323.000	33.400 L	--		263.900		--	--					300	3.6	7.5
[3],[5]	CB D9	3+350.440	21.255 R	SPECIAL	271.400	270.536	0.864	R-4990AX	FES D10	--	33.0	1.0	2.0			
[7]	FES D10	3+370.000	35.000 R	--		263.200		--	--					300	3.6	7.5
PIPE TOTALS							3.46	4.0			92.0	4.0	6.0	4.0	14.4	30.0

NOTES:
[1] LOCATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE. LOCATIONS OF BENDS SHALL BE PLACED IN THE FIELD BY THE ENGINEER.
[2] SLOPE BETWEEN CB'S, BENDS, AND APRONS SHALL VARY BASED UPON FINAL LOCATION OF BENDS. PIPE SHALL BE A MINIMUM OF 0.5 m BELOW FINISHED GRADE. PIPE SLOPE BETWEEN APRON AND FINAL BEND SHALL BE LESS THAN 4.0%.
[3] R-4990AX DENOTES NEENAH R-4990--AX CASTING OR APPROVED EQUAL
[4] REFER TO MNDOT STANDARD PLATE M3123J FOR INSTALLATION OF APRONS. ALSO INSTALL GUIDE POST TYPE B AT EACH APRON.
[5] SPECIAL STRUCTURE INCLUDES CAST IN PLACE CONCRETE BOX FOR USE WITH R-4990--AX CASTING OR APPROVED EQUAL
[6] RIM ELEVATIONS FOR CB'S ARE APPROXIMATE. ELEVATIONS SHALL BE FIELD VERIFIED AND SHALL BE 0.05m LOWER THAN THE SIDEWALK. ADJACENT TO THE STRUCTURE.
[7] ACTUAL STATION AND OFFSET MAY VARY DUE TO EXISTING CONDITIONS IN THE FIELD. TO BE PLACED IN THE FIELD BY THE ENGINEER.

4 OF 4

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	ADDED TABULATION FOR F&I CASTING ASSEMBLIES
			REVISED QUANTITIES PER MN/DOT COMMENTS
2	JJL	2/11/00	ADDED 1\ CHANGED CLASS FOR ARCH PIPE, ADD STUB, LOWERED LAT. SYSTEM AND MOD. PIPE SIZES
3	JJL	2/18/00	ADDED 2\ MOD. NOTES 3 & 4, MOD. CASTING SUMMARY
4	JJL	3/8/00	REVISED CASTING TAB, MODIFIED CASTING TYPES
5	JJL	3/21/00	MODIFIED PIPE TOTALS
6	JJL	4/06/00	MOD. REQ. #8: MOVED FES D4, MOD.
7	JJL	4/12/00	MOD. REQ. #9: MOVED D2&D4, MOD. TOTALS, ADD GRATES
8	JJL	4/17/00	MOD. REQ. #10: MOD. PIPE TOTALS
9	JJL	5/15/00	MOD. REQ. #28: MOD. PIPE TOTALS
10	JJL	5/17/00	MOD. REQ. #9a: ADD SAFETY GRATE TO FES C5
11	JJL	5/25/00	MOD. REQ. #10B: MOD. PIPE TOTALS FOR ND BLVD STUBS
12	JJL	6/01/00	MOD. REQ. #27: MOD. TOTALS FOR ND BLVD LATERALS
13	JJL	6/06/00	MOD. REQ. #37: MOD. PIPE & CASTING TOTALS
14	JJL	7/05/00	MOD. REQ. #36: DELETED CB 78C & 85A,ADDED CB 85B
15	JJL	7/07/00	MOD. REQ. #46: ADDED STUB TO CB 23
16	BJK	12/4/00	MOD. REQ. #70: ADDED SPECIAL BRIDGE STORM SEWER
17	JJL	04/04/01	MOD. REQ. #83: ADDED STUB TO CB 40
18	BJK	07/17/01	MOD. REQ. #74: ADDED CULVERTS TO DRAINAGE TAB
19	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242TAB18
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

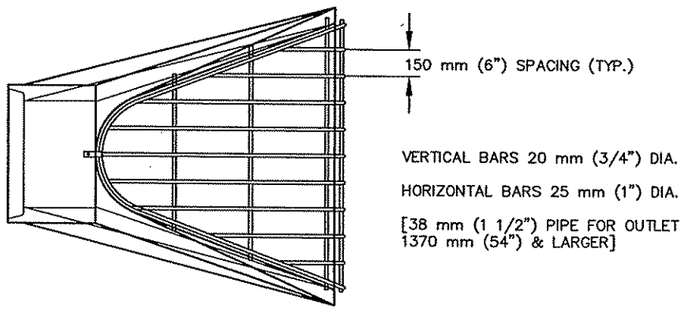
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (TH 242 & RAMPS)
TABULATED QUANTITIES
DRAINAGE TABULATION

CITY PROJECT 98-20

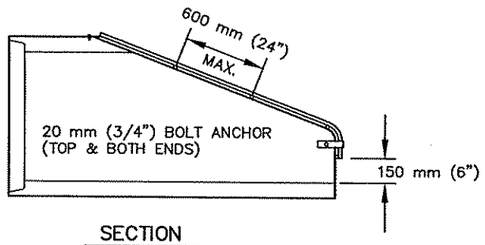
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 219 / 539

PLOT DATE: Aug 2004 8:33am DISK FILE NAME: (15.06) R:\33889\33889028\3389BE\TABS\242tab18.dwg



PLAN VIEW



SECTION

1) MOUNTING HOLES SHALL BE DRILLED IN APRON AT TIME OF INSTALLATION.

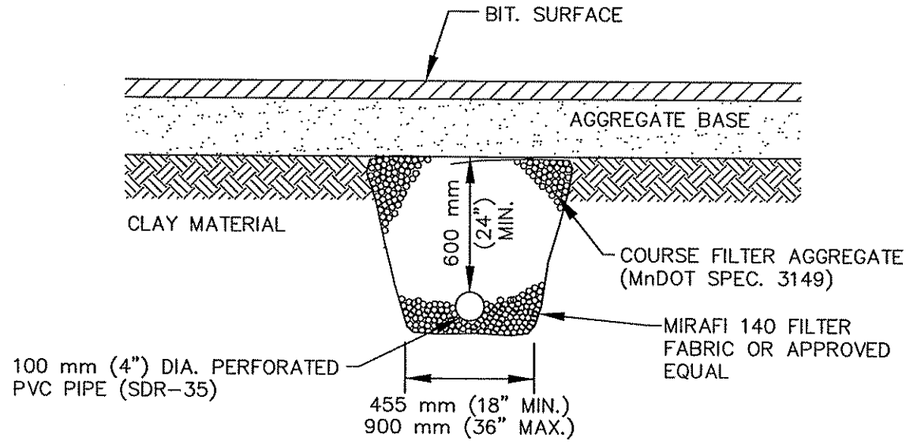
2) THE SIZE OF EACH TRASH GUARD WILL VARY TO FIT APRON.

3) AFTER FABRICATION, TRASH GUARD SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH MnDOT SPEC. 3392.

4) THE LAST 3 PIPE SECTIONS SHALL BE TIED.

TRASH GUARD FOR END SECTION

NOT TO SCALE



NOTES:

1) FABRIC AND CRUSHED ROCK SHALL EXTEND ABOVE ANY IMPERVIOUS LAYER WHICH EXISTS.

2) PAYMENT FOR FABRIC AND FILTER AGGREGATE SHALL BE INCIDENTAL TO PERF. PIPE DRAIN INSTALLATION.

3) PERFORATED PIPE DRAIN SHALL BE INSTALLED AT LOCATIONS SHOWN ON PLANS AND AS DIRECTED BY THE ENGINEER.

4) ALL PIPE DRAINS SHOWN ON THE DRAINAGE PLANS ARE LOCATED AT LOW POINTS IN THE ROADWAY. CONNECT TO MANHOLES LOCATED AT LOW POINTS.

PERFORATED PIPE DRAIN

NOT TO SCALE

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED METRIC DIMENSIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242WDET5
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)

STORM SEWER DETAILS

CITY PROJECT 98-20

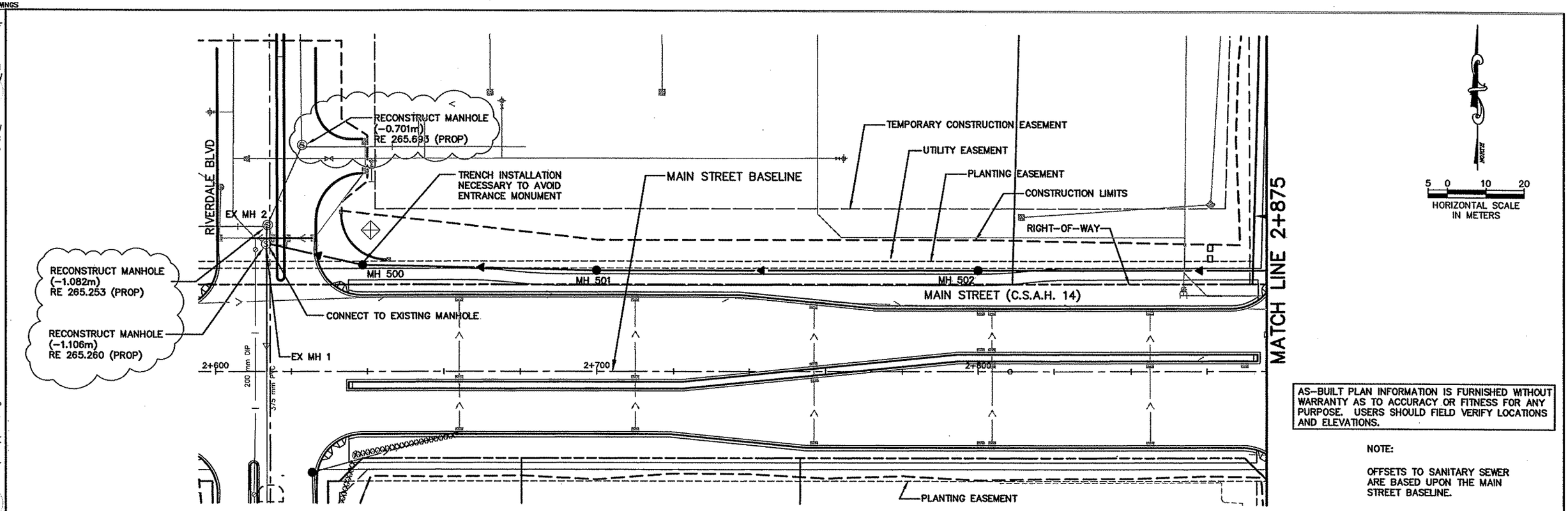
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 220 / 539

PLOT DATE: Dec 999 6:06pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_...NGRING\242WDET5.dwg

XREF DRAWINGS

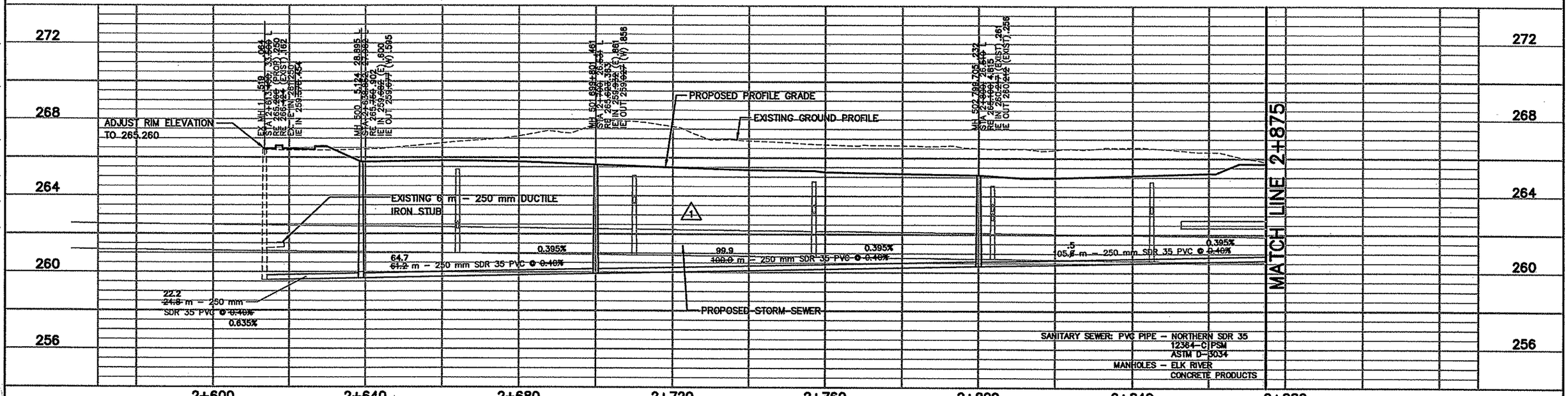
\IN-PRF
PBOX
86SITE
86UTIL
2-ESUM
2CL'' W
N-
2-
2-PUI
2PLNW
2-ALIW
2MHVEG
2MHETO



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTE:

OFFSETS TO SANITARY SEWER ARE BASED UPON THE MAIN STREET BASELINE.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	2/11/00	ADDEND 1 MODIFIED PROFILE VIEW ELEVATIONS
2	JJL	4/17/00	MOD. REQ.#10: REVISED LOCATION OF MH 503, STUB
3	JJL	5/25/00	MOD.REQ.#08: MODIFIED PIPE LENGTHS MH 502-MH 503A
4	JJL	8/10/00	MOD. REQ. #57: ADD PROP. RIM ELEV.
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: SANPP01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
SANITARY SEWER PLAN AND PROFILE
STA. 2+613.530 TO STA. 2+875.000

CITY PROJECT 98-20

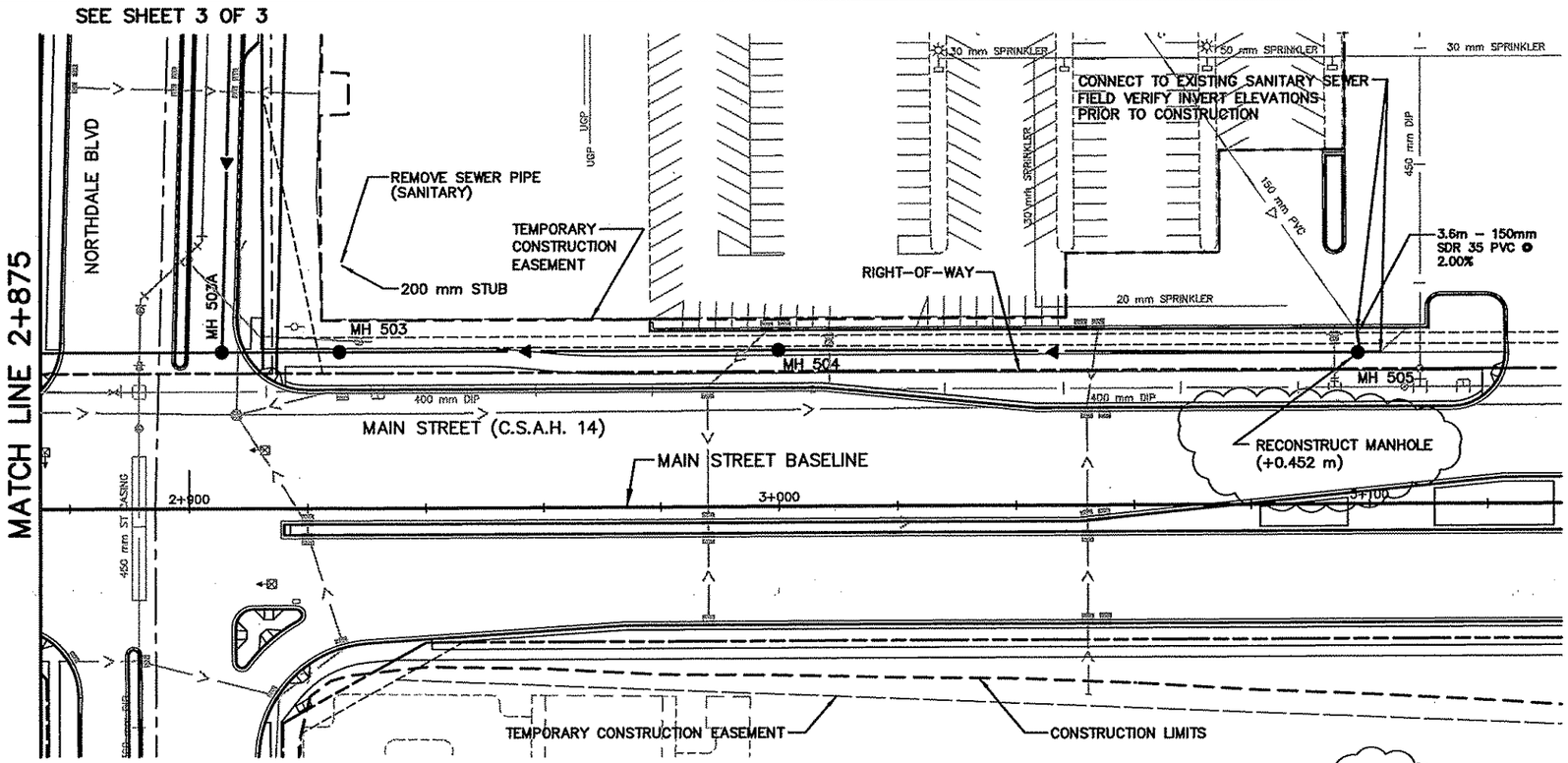
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

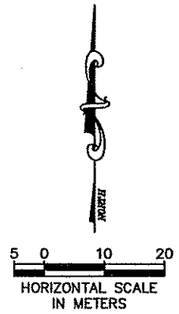
SHEET NO. 221 / 539

1 OF 3

PLOT DATE: Aug 11, J 7:28am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SH\...RING\SANpp01.dwg

DRAWINGS
AIN–PRF
APBOX
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42CLM–W
42–ESUM
AN–PRF
42–EUT
42
42 N
42MHVEG
42MHETO
42–EUT

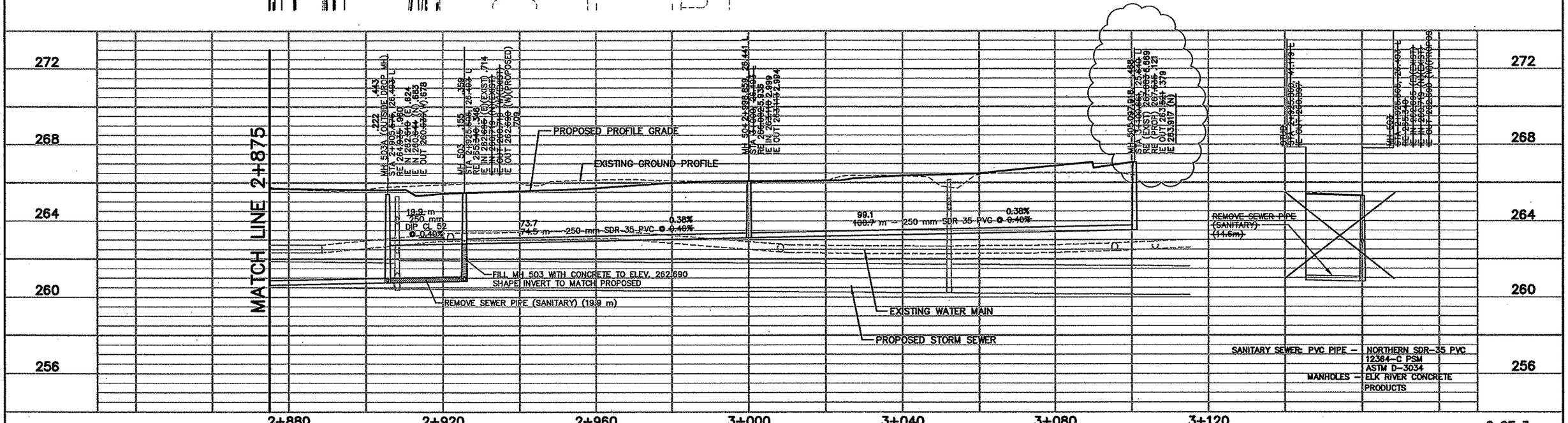




AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:

–OFFSETS TO SANITARY SEWER ARE BASED UPON THE MAIN STREET BASELINE.



2 OF 3

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	4/17/00	MOD.REQ.#10: REVISED LOCATION OF MH 503, STUB
2	JJL	5/19/00	MOD.REQ.#10B: ADDED MH 503A, MODIFIED MH 503, ADDED DIP SEWER PIPE & REMOVED SANITARY
3	JJL	7/5/00	MOD. REQ. #36: RECONSTRUCT MH 505
4	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: SANPP02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
SANITARY SEWER PLAN AND PROFILE
STATION 2+875.000 TO STATION 3+100.661

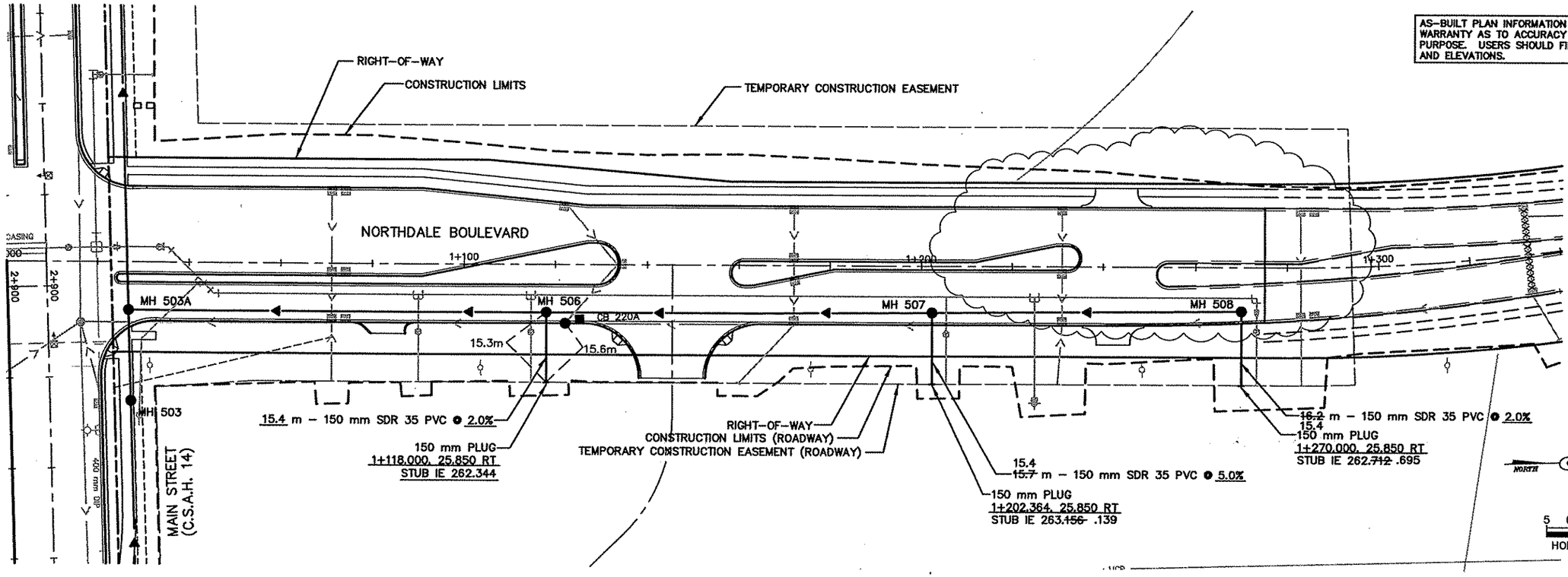
CITY PROJECT 98–20

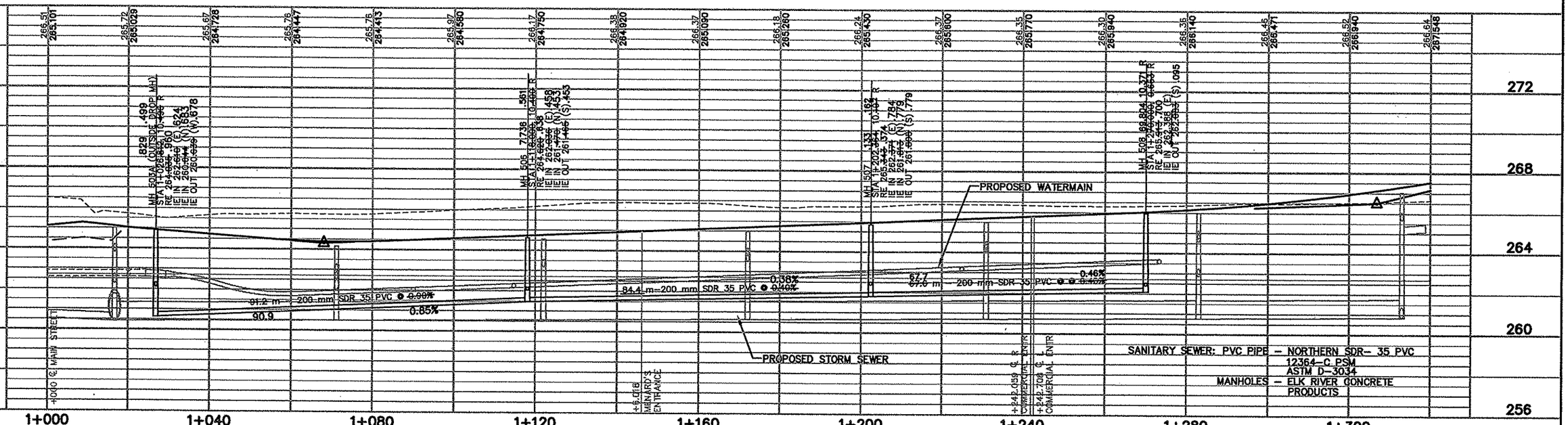
S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 222 / 539

PLOT DATE: Jun 26, 2000 2:36pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHEETS\SANPP02.dwg

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	2/16/00	ADDEND 2 CHANGED STEEL CASING DIAMETER TO mm
2	JJL	4/19/00	MOD.REV.REQ.#10: ADDED SANITARY SEWER
3	JJL	5/25/00	MOD.REV.REQ.#10B: ADDED SANITARY SEWER TO ND BLVD
4	PMJ	9/29/00	MOD. REQ. #69: REVISED MEDIAN, ADDED DRIVEWAY
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: SANPP03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

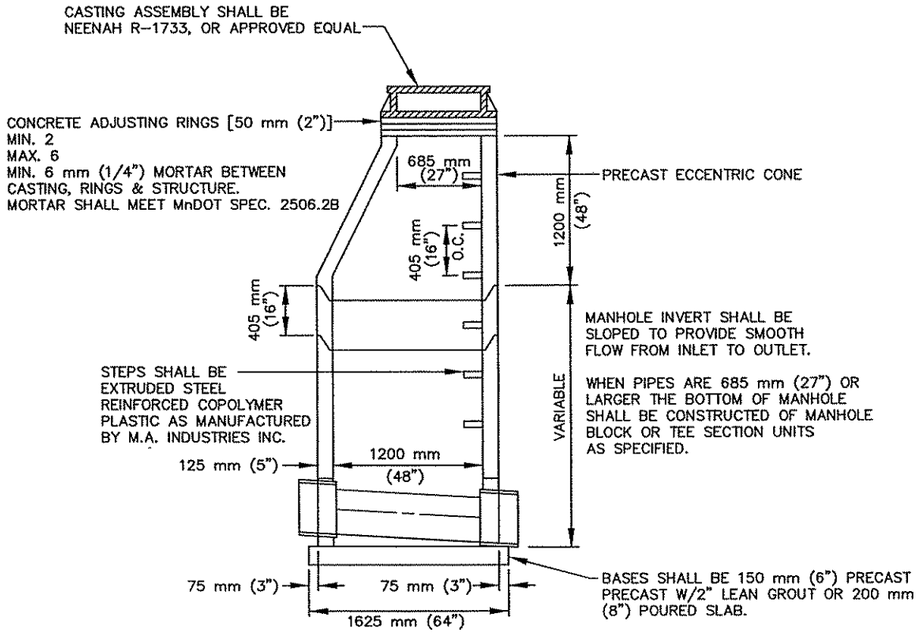
MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
SANITARY SEWER AND PROFILE
STATION 1+000.000 TO STATION 1+340.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

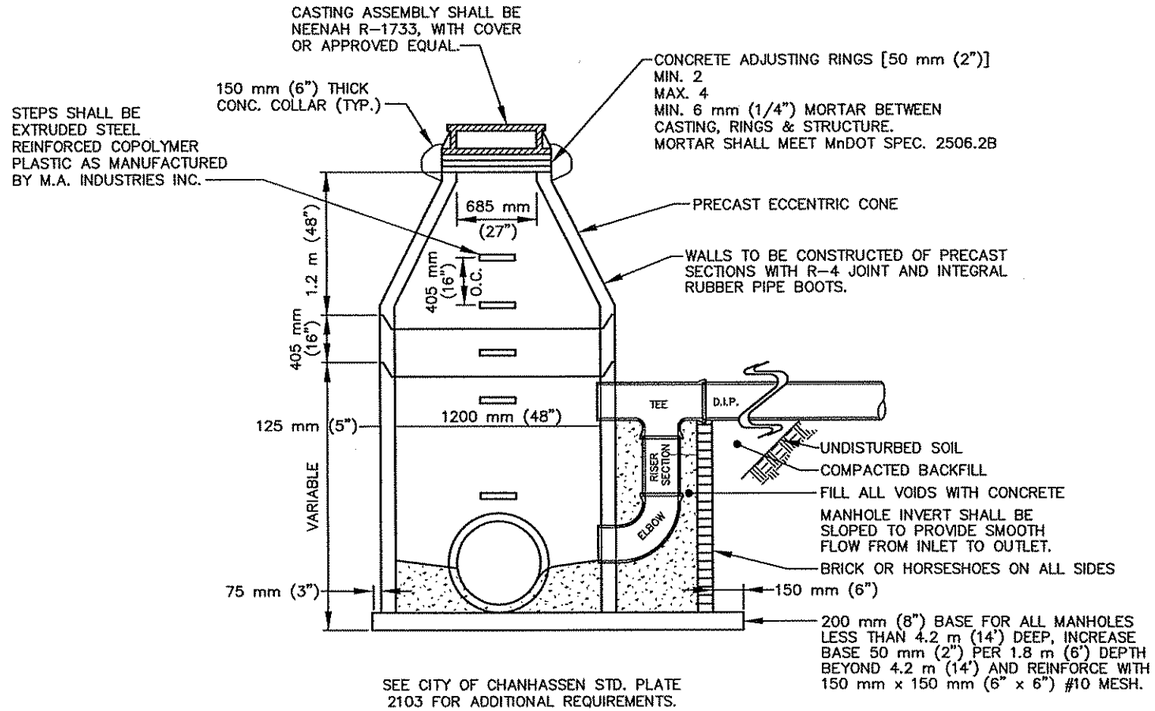
3 OF 3
SHEET NO. 223 / 539

PLOT DATE: Oct .000 6:16pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S..NGRING\SANpp03.dwg



SANITARY MANHOLE

NOT TO SCALE



SEE CITY OF CHANHASSEN STD. PLATE 2103 FOR ADDITIONAL REQUIREMENTS.

STANDARD DROP MANHOLE

NOT TO SCALE

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED METRIC DIMENSIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242WDET4
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

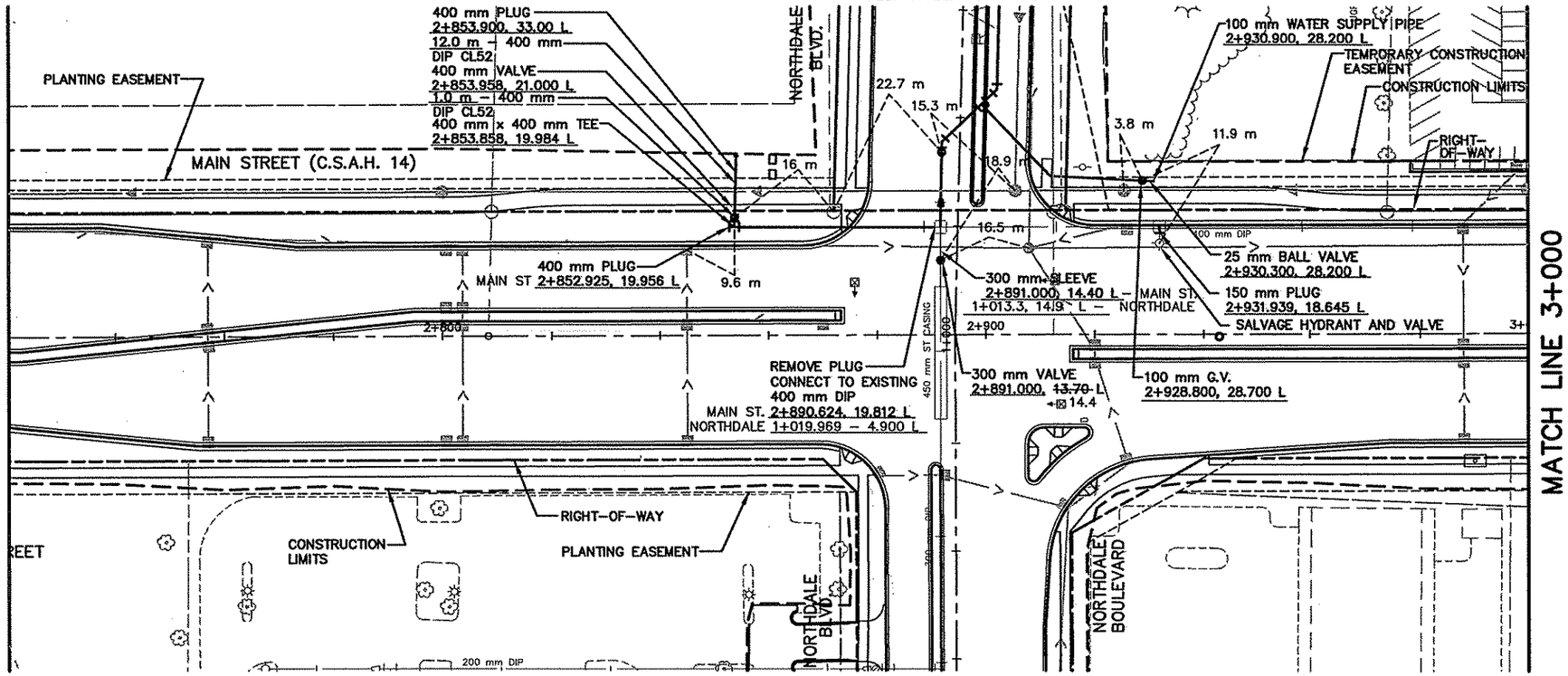
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
SANITARY SEWER DETAILS
CITY PROJECT 98-20

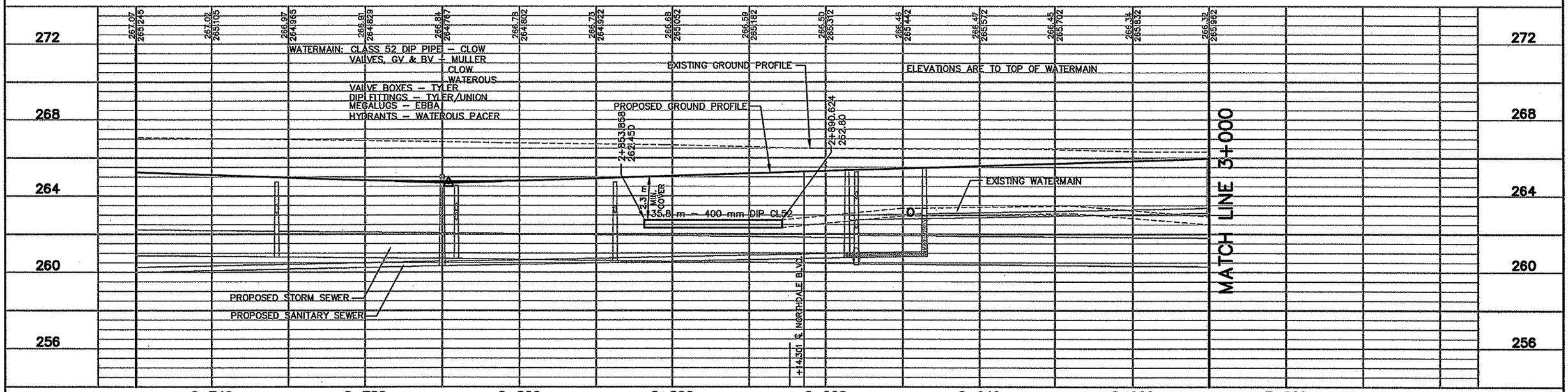
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 224 / 539

PLOT DATE: Jan 1 00 11:23am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S...GRING\242WDET4.dwg

SEE SHEET 5 OF 8





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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	ADDED NOTE "SALVAGE HYDRANT AND VALVE"
2	JJL	4/17/00	MOD.REQ. #10: MODIFIED STUB AT NORTHDALE BLVD
3	JJL	5/19/00	MOD.REQ.#108: DELETED 200 mm WM STUB & VALVE
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ | DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK | DWG. NAME: 242WAT06
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
WATER MAIN
STATION 2+720.000 TO STATION 3+000.000

CITY PROJECT 98-20

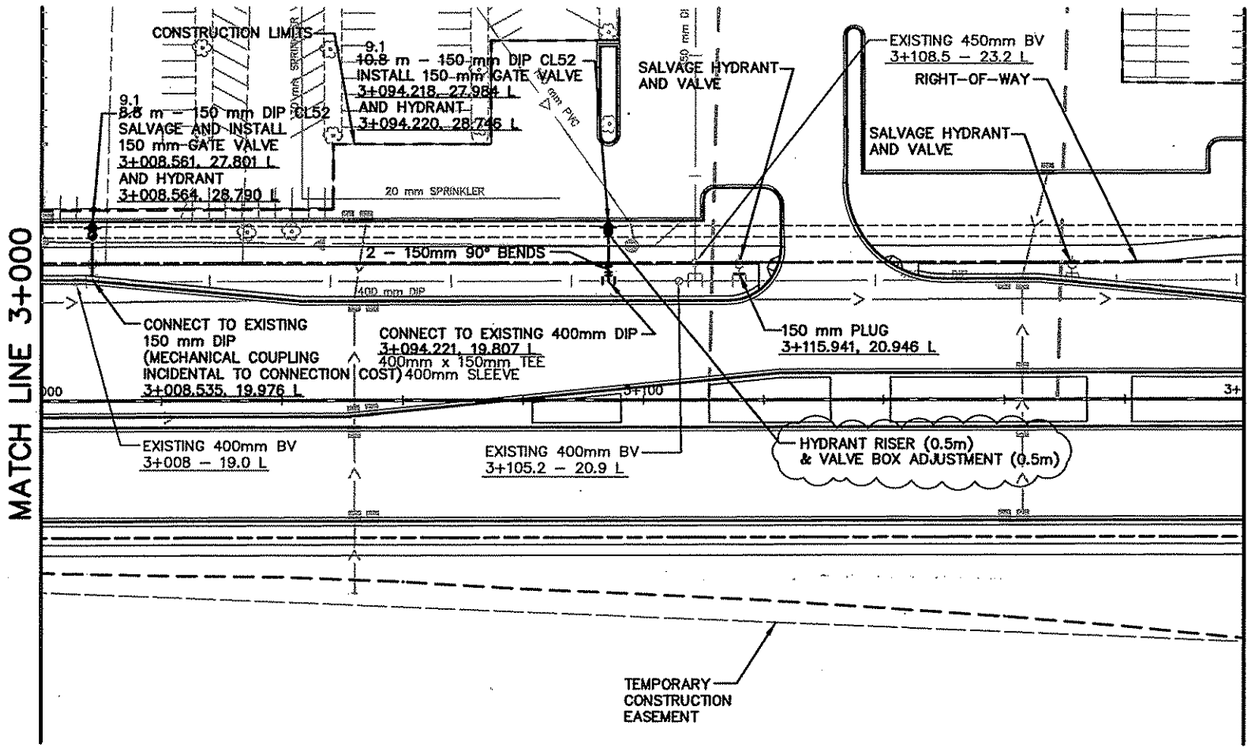
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

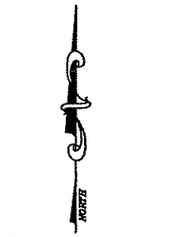
SHEET NO. 225 / 539

PLOT DATE: Apr 04, 4 3:34pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\242WAT06.dwg

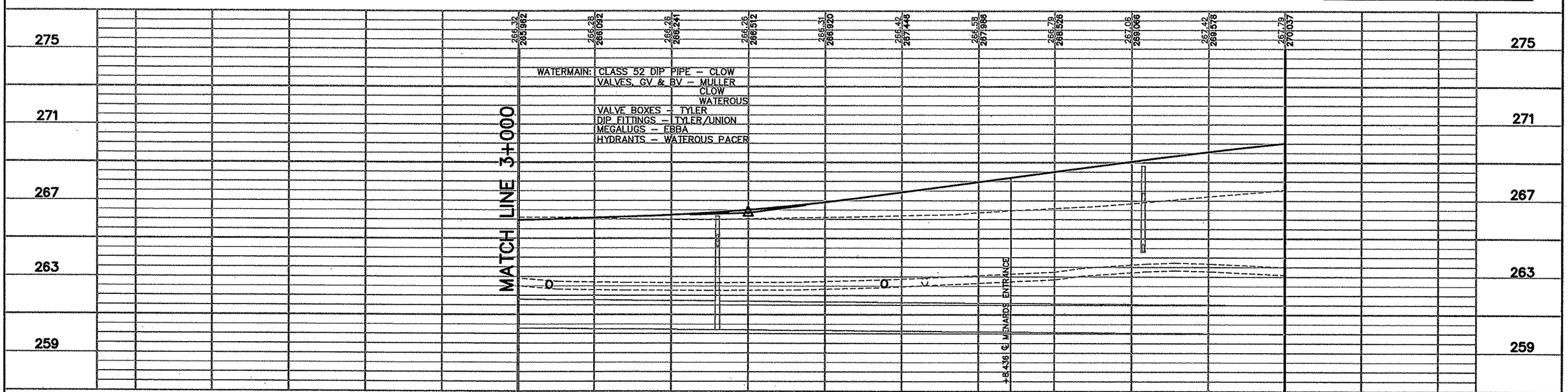
LF DRAWINGS

\PBOX
12E-TXT
_STRIPE
12CLM-W
12-PUT
12PLNW
12-A[illegible]W
\[illegible]
12
12MhveG
12MHETO
12-EUT





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2 OF 8

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	3/21/00	REVISED LOCATION OF HYDRANT NEAR MENARDS ENTRANCE, ADDED WET TAP NOTE
2	JJL	4/19/00	MOD. REQ. #14: MODIFY HYD. LOCATION, ADD 90° BENDS
3	JJL	5/01/00	MOD. REQ. #14: MOVE ONE AND ELIMATE ONE HYDRANT
4	JJL	7/5/00	MOD. REQ. #38: ADD HYD. RISER & VALVE BOX ADJUST.
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: KPK
DESIGN BY: JJL
CHKED. BY: PBD/KPK
DWG. NAME: 242WAT08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bell
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
WATER MAIN
STATION 3+000.000 TO STATION 3+200.000

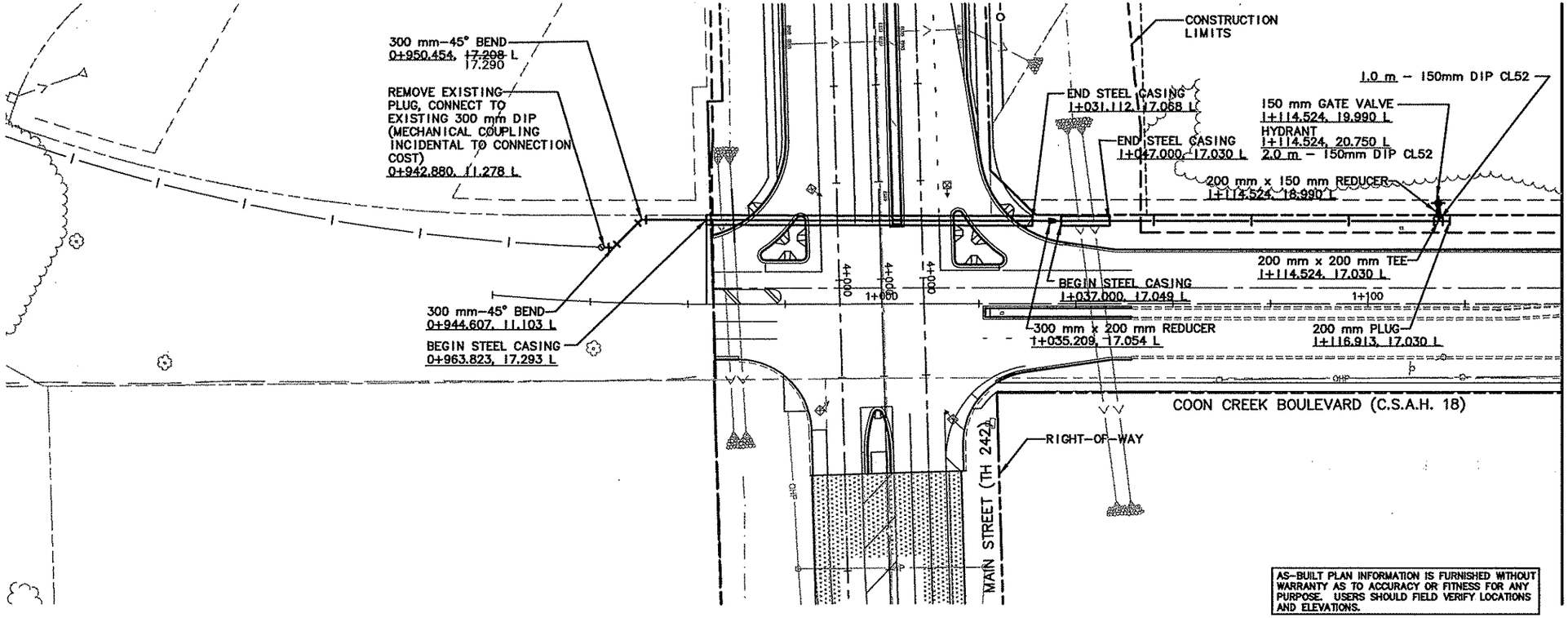
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

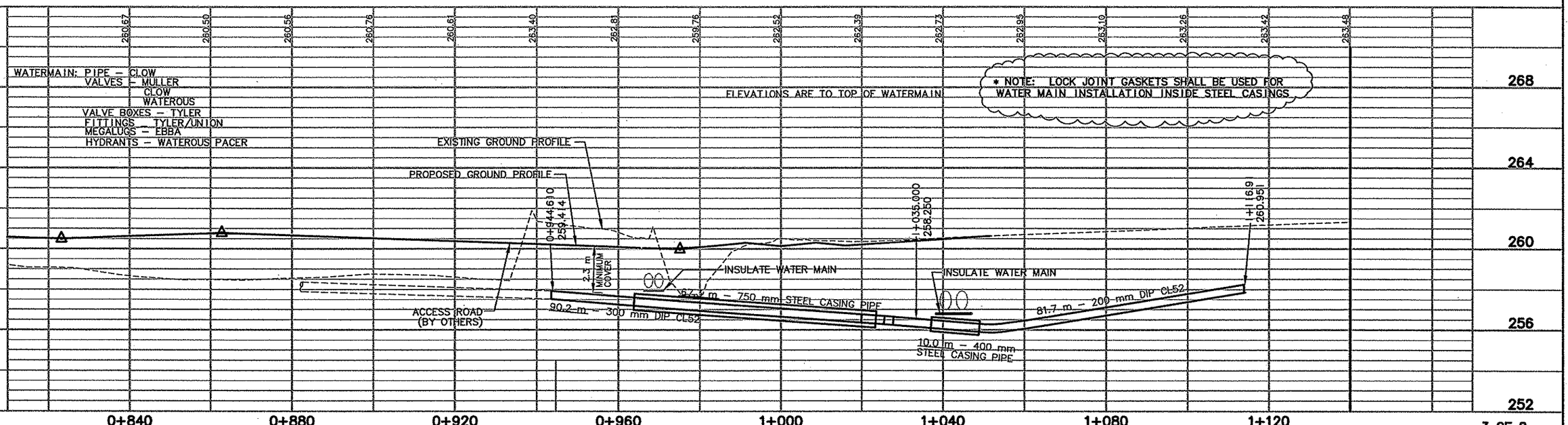
SHEET NO. 226 / 539

PLOT DATE: Apr 6 04 3:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S[illegible]NGRING\242wat08.dwg

▸ DRAWINGS
I2PLN2A
I2E-ALI
I2-PUT
\PBOX
I2E_DRN
I2E-CLM
I2-ALIW
I2MHVEG
I2MHETO
I2-EUT



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	9/13/00	MOD.REQ.#19: ADDED NOTE FOR LOCK JOINT PIPE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242WAT02
DATE: NOVEMBER 5,1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Fields
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD (C.S.A.H. 18)
WATER MAIN
STATION 0+020.000 TO STATION 1+240.000

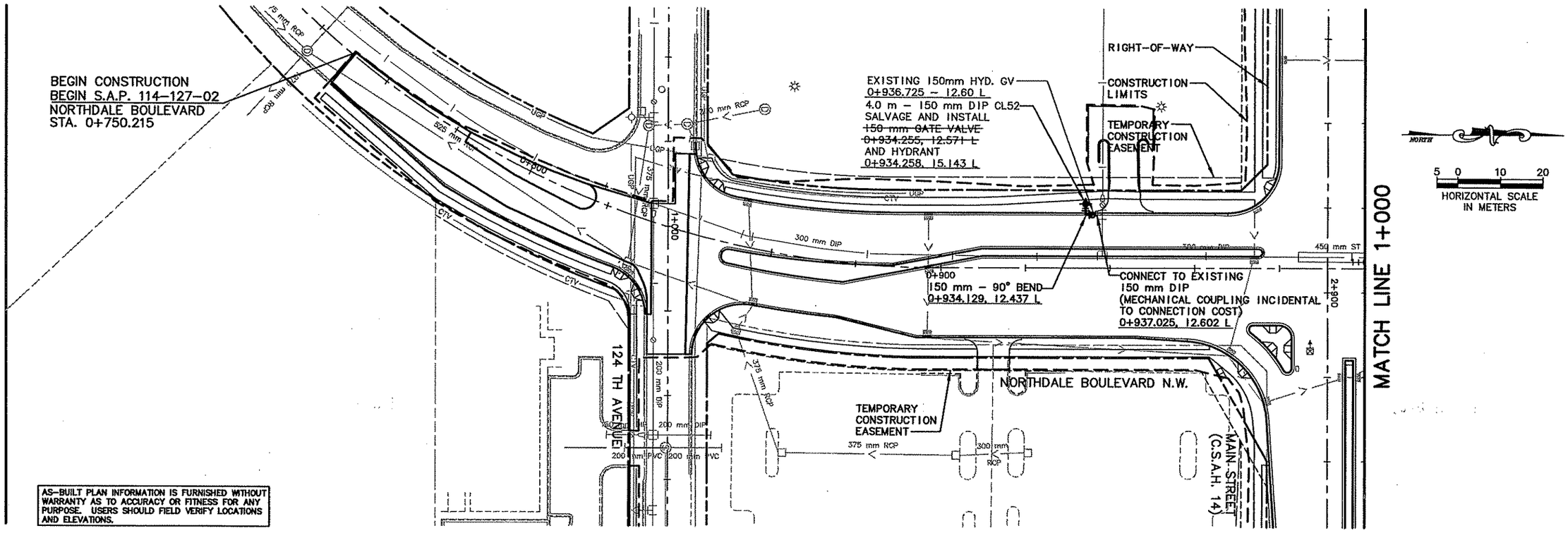
CITY PROJECT 98-20

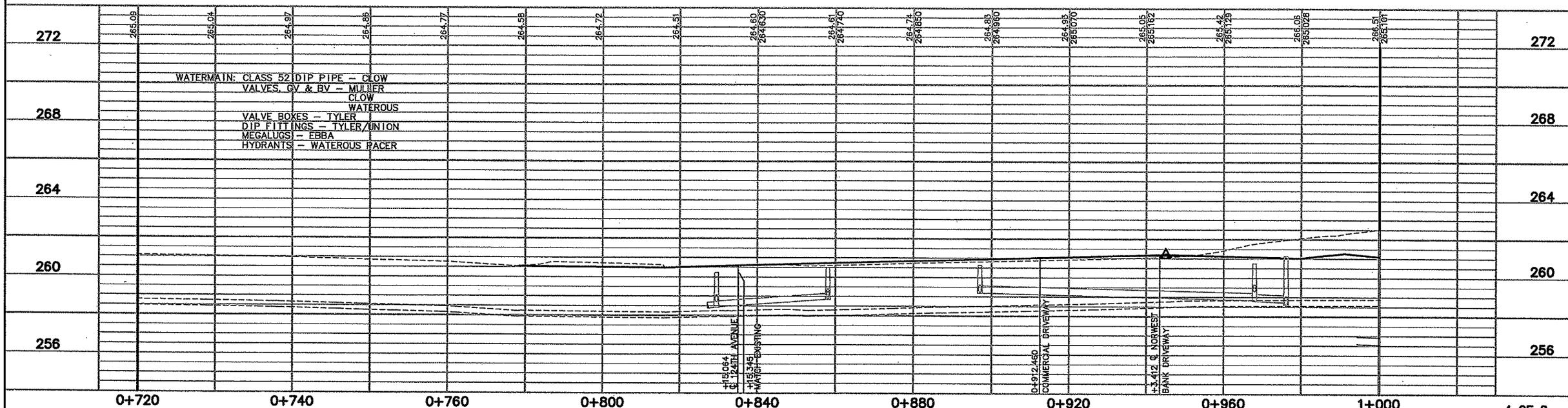
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 227 / 539

PLOT DATE: Apr 07, 2004 3:31pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sht\ENGRING\242wat02.dwg

REF DRAWINGS
CONSTNTS
/_STRIPE
.42E-TXT
.42CLM-W
IDALEPRF
.42PLNW
.42-PUT
42-ESLIM
42
42
42MHLTO
42-EUT





REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242WAT05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
WATER MAIN
STATION 0+750.000 TO STATION 1+000.000

CITY PROJECT 98-20

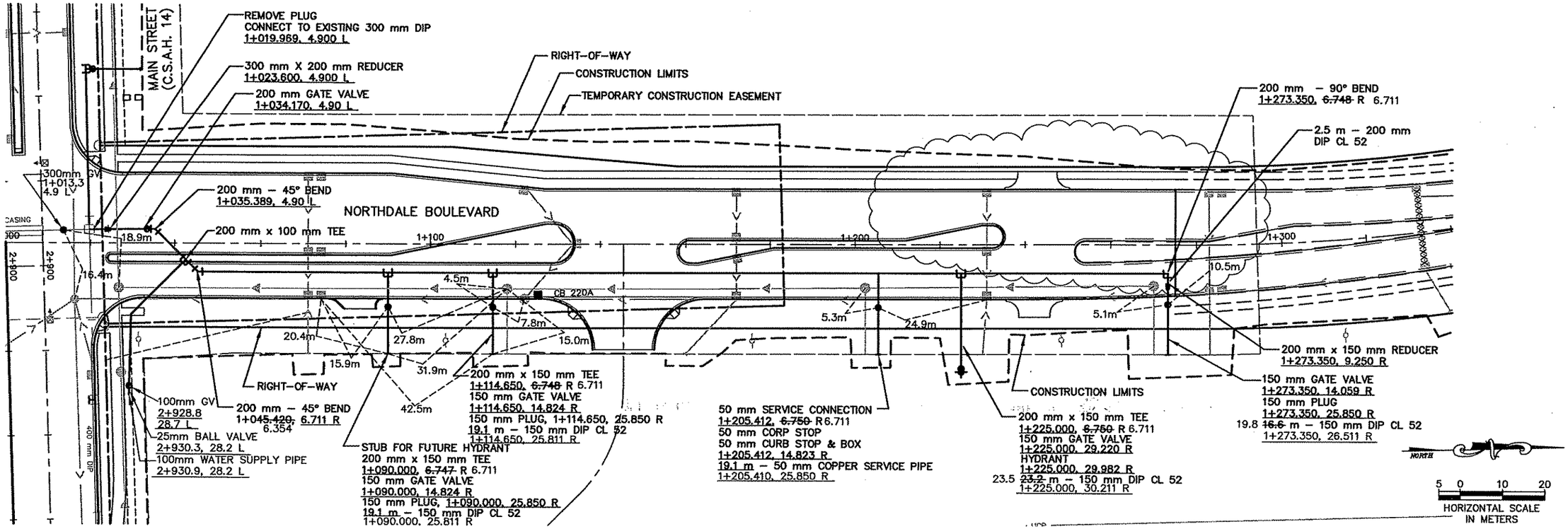
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

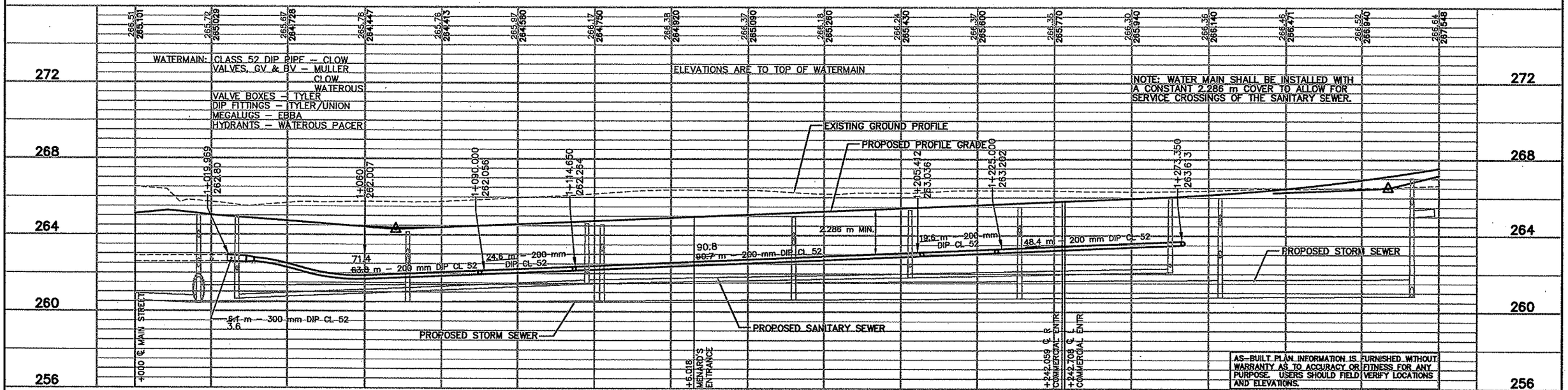
SHEET NO. 228 / 539

4 OF 8

PLOT DATE: Apr 304 3:33pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN-...NGRING\242wat05.dwg

PLOT DATE: Apr .004 3:34pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_NGRING\242wat07.DWG
XR DRAWINGS
APBOX
42CLM-W
42-ALIW
DALEPRF
42-PUT
42PLNW
42-ESUM
42MDVEG





5 OF 8

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	2/28/00	ADDEND 2 CHANGED STEEL CASING DIAMETER TO mm
2	JJL	4/19/00	MOD.REQ.#10: ADDED WATERMAIN
3	JJL	5/25/00	MOD.REQ.#108: ADDED WATERMAIN TO NORTHDALE BLVD
4	PMJ	9/29/00	MOD. REQ. #69: REVISED MEDIAN, ADDED DRIVEWAY
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242WAT07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
WATER MAIN
STATION 1+000.000 TO STATION 1+340.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 229 / 539

REF DRAWINGS

SAPBOX
242MHVEG
242E_DRN
242CLM-W
242E-PLN
124-PRF
242-PUT
242PLNW
24[illegible]W
2[illegible]M
2[illegible]O
24[illegible]

450 mm x 150 mm WET TAP & SADDLE WITH 150 mm G.V. ATTACHED TO SADDLE
8+160.000, 19.300 R
(RAMP D BASELINE)

BUTTERFLY VALVE
450 mm GATE VALVE
CONNECT TO EXISTING 450 mm DIP
(MECHANICAL COUPLING INCIDENTAL TO CONNECTION COST)
8+150.700, 21.1 R
(RAMP D BASELINE)

EXISTING WATER MAIN TO BE ABANDONED

SALVAGE HYDRANT AND VALVE

EXISTING WATER MAIN TO BE ABANDONED

GAS

1+600

CROOKED LAKE BLVD. BASELINE

MATCH LINE 1+630

21.2m

14m

450 mm – 45° BEND
1+483.481, 2.502 R

1+500

450 mm – 45° BEND
1+461.032, 39.006 L

450 mm – 11 1/4° BEND
1+534.723, 2.594 R

450 mm – 11 1/4° BEND
1+556.535, 1.995 R

RIGHT-OF-WAY

450 mm DIP

25m

26m

150 mm – 22½° BEND
1+456.653, 38.789 L
150 mm – 45° BEND

NORTHWESTERN BELL TELEPHONE CABINET 2020-124

150 mm CIP

150 mm SLEEVE
CONNECT TO EXISTING 150 mm DIP
(MECHANICAL COUPLING INCIDENTAL TO CONNECTION COST)
1+454.621, 35.192 L
4.6 m 150 mm DIP

CONSTRUCTION LIMITS

2 – CONNECT TO EXISTING 450 mm DIP
(MECHANICAL COUPLING INCIDENTAL TO CONNECTION COST)
3+216.946, 33.717 R
3+216.953, 31.717 R

150 mm G.V.

14.8 m – 150 mm DIP
SALVAGE AND INSTALL HYDRANT
1+418.189, 10.808 R

CONNECT TO EXISTING 150 mm DIP
(MECHANICAL COUPLING INCIDENTAL TO CONNECTION COST)
1+409.404, 0.164 L

200 mm PVC

TEL

1+400

2.0 m – 450 mm DIP CL 52
REMOVE 450mm BV

1+440

150 mm – 45° BEND
1+414.091, 9.553 R

0+920

HORIZONTAL SCALE IN METERS
5 0 10 20

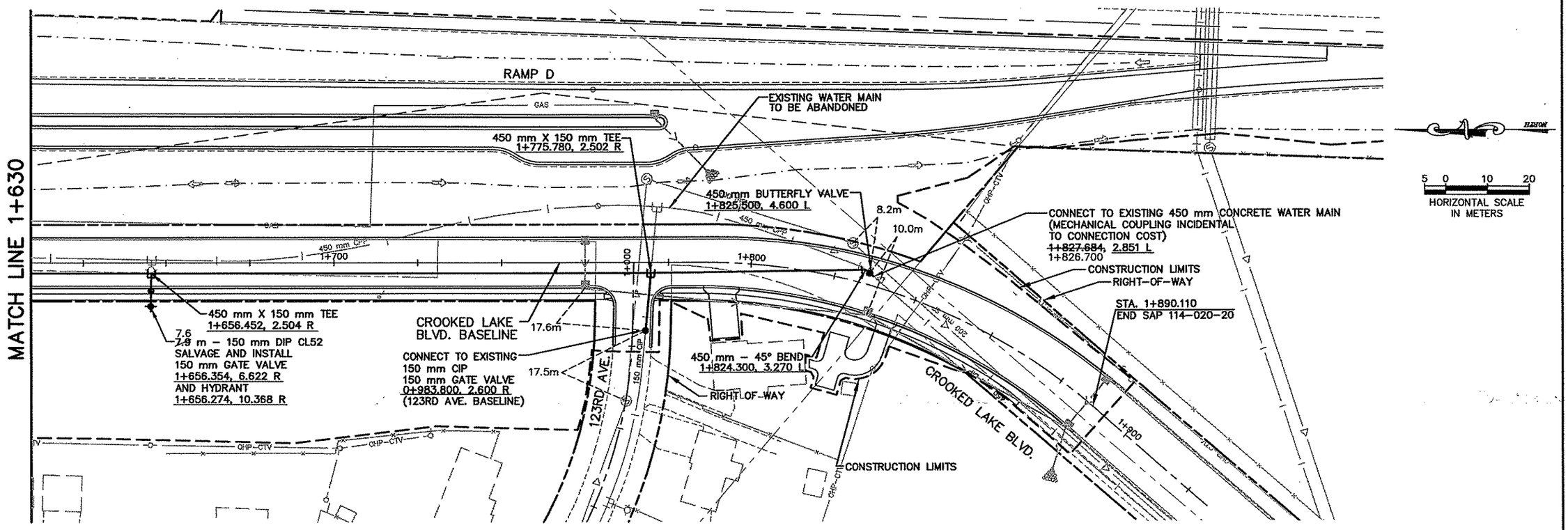
NOTE: WATER MAIN PROFILE FOLLOWS 124TH AVENUE ALIGNMENT

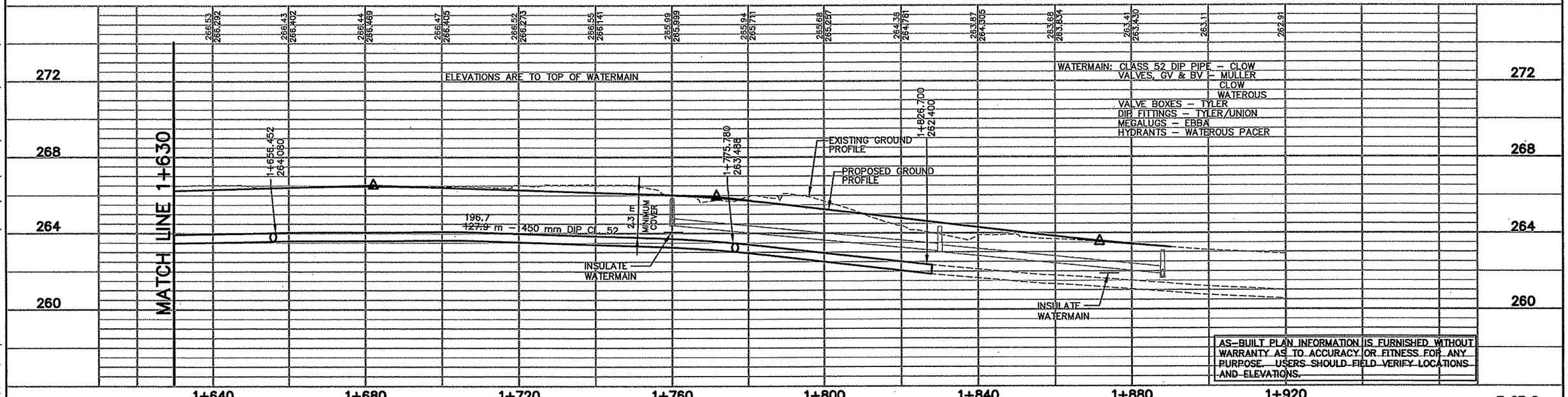
WATERMAIN: CLASS 52 DIP PIPE – CLOW
VALVES, GV & BV – MULLER
CLOW
WATEROUS
VALVE BOXES – TYLER
DIP FITTINGS – TYLER/UNOIN
MEGALUGS – EBBA
HYDRANTS – WATEROUS PACER

ELEVATIONS ARE TO TOP OF WATERMAIN

| | | |

ET DRAWINGS
12E-CLM
24-PRF
APBOX
12E_DRN
12CLM-W
12E-PLN
12-PUT
12 N
12-EOUM
12MHETO
12-EUT





AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD
2	JJL	5/01/00	MOD. REQ. #14: MOD. WATER MAIN DESIGN IN C.L. BLVD
3	JJL	8/10/00	MOD. REQ. #57: REMOVED VALVE, MOD. VIEWPORTS
4	TSR	2/20/04	AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: JRJ
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242WAT04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BLVD. N.W.
WATER MAIN
STA. 1+700.000 TO STA. 1+920.000

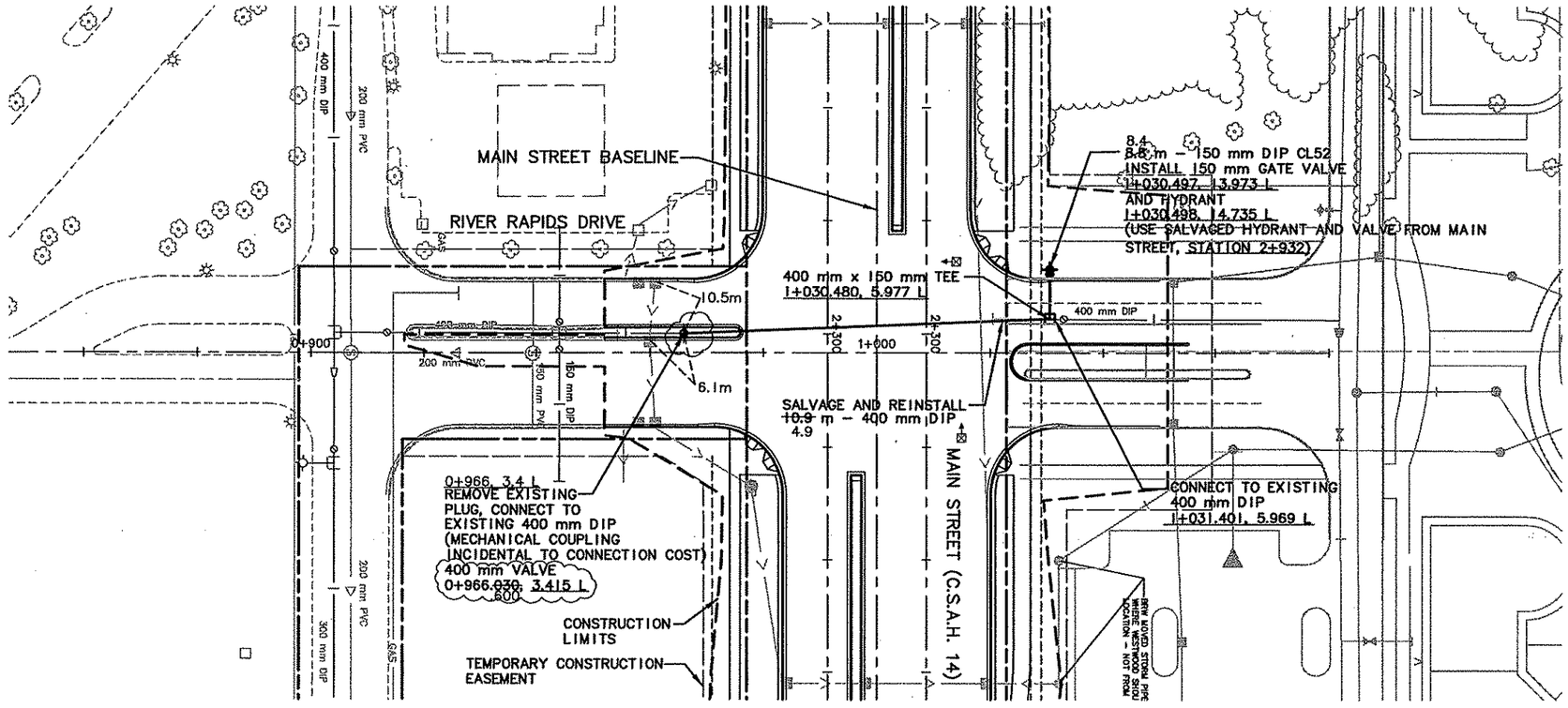
CITY PROJECT 98-20

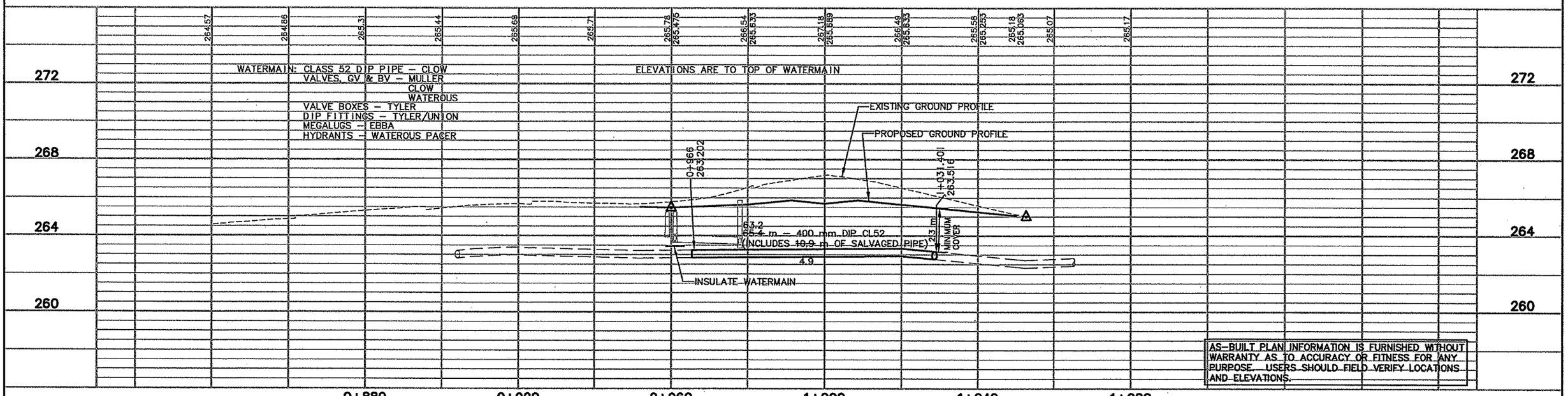
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 231 / 539

PLOT DATE: Apr 07, 2004 3:32pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...\ENGRING\242wat04.dwg

XREF DRAWINGS
242E-TXT
V_STRIPE
242CLM-W
CONSTNTS
ROSE-PRF
242-PUT
242PLNW
242-ESUM
242 G
242 TO
242-EUT





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8 OF 8

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	12/30/99	ADDED NOTE "USE SALVAGED HYDRANT AND VALVE..."
2	JJL	5/5/00	MOD. REQ. #24: MOD. HYD. LOCATION, MOD. ALIGNMENT
3	JJL	9/13/00	MOD. REQ. #62: ADD GATE VALVE AT RIVER RAPIDS DRIVE
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242WAT01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

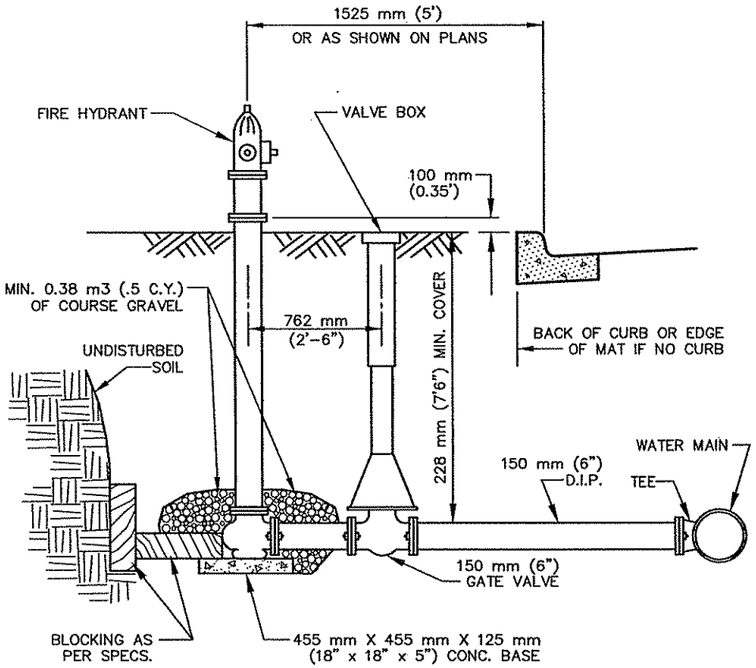
MAIN STREET/T.H. 242 RECONSTRUCTION
RIVER RAPIDS DRIVE
WATER MAIN
STATION 0+907.018 TO STATION 1+050.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 232 / 539

PLOT DATE: Apr 004 3:30pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S_NGRING\242wat01.dwg



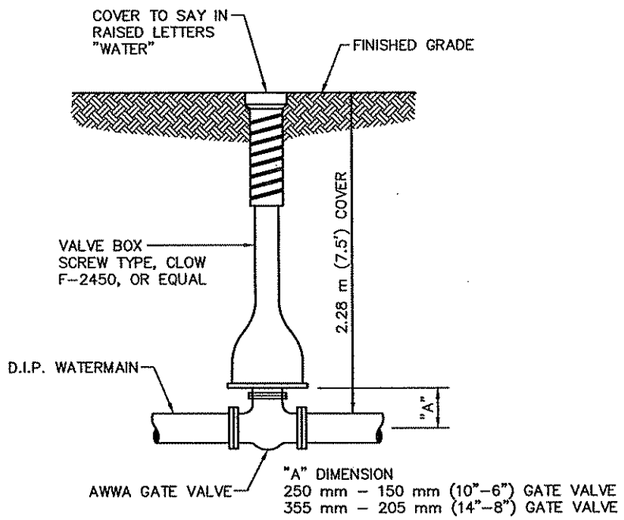
NOTES:

1) HYDRANTS TO BE ORDERED FOR 2.6 m (8'-6") COVER. IN AREAS OF EXTRA DEPTH ON THE WATERMAIN, HYDRANT EXTENSIONS MAY BE REQUIRED.

2) HYDRANT SHALL BE BLOCKED OR TIED TO THE TEE AT MAIN WITH 2-19 mm (3/4") TIE RODS. ALL TIE RODS TO BE COAL TAR COATED AFTER INSTALLATION. RESTRAINED JOINT PIPE AND RETAINER GLANDS MAY BE USED WHERE APPROVED BY THE ENGINEER.

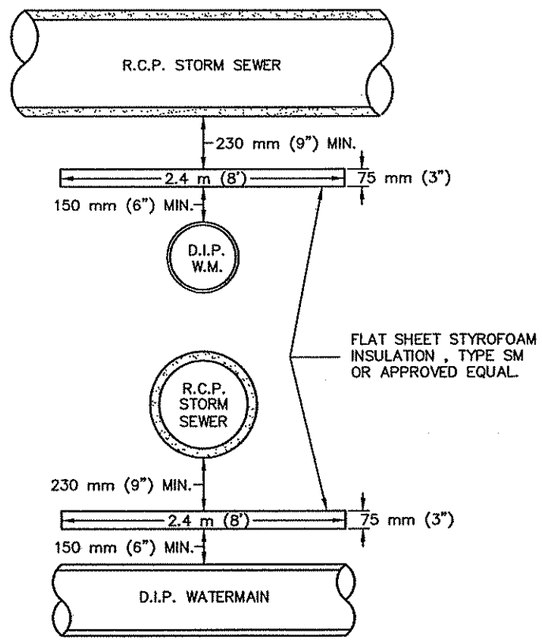
TYPICAL HYDRANT INSTALLATION

NOT TO SCALE



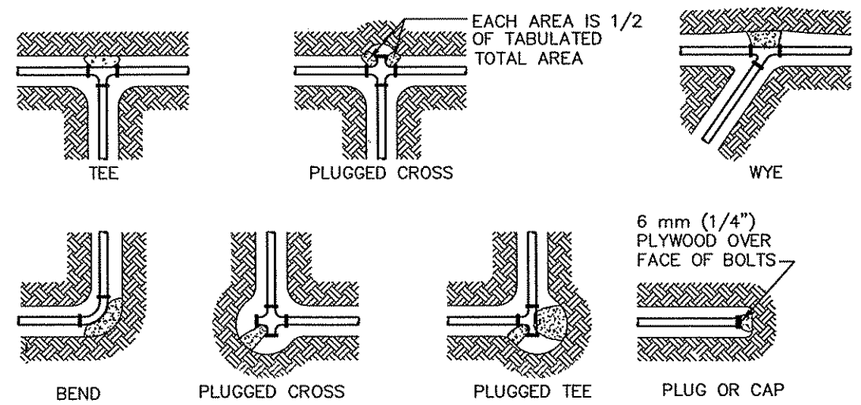
GATE VALVE BOX

NOT TO SCALE



TYPICAL WATER MAIN INSULATION

NOT TO SCALE



NOMINAL FITTING SIZE,	TEE, WYE, PLUG OR CAP	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22 1/2° BEND	11 1/4° BEND
mm	m2	m2	A^1	A^2	m2	m2	m2
100	0.093	0.130	0.177	0.130	0.093	0.000	0.000
150	0.195	0.279	0.399	0.279	0.149	0.093	0.000
200	0.353	0.492	0.706	0.502	0.269	0.139	0.093
250	0.548	0.780	1.096	0.780	0.427	0.242	0.111
300	0.790	1.115	1.579	1.115	0.613	0.316	0.158
355	1.068	1.514	2.137	1.514	0.827	0.427	0.214
400	1.394	1.979	2.787	1.979	1.078	0.557	0.279
450	1.765	2.508	3.530	2.508	1.356	0.706	0.353
500	2.183	3.094	4.366	3.094	1.682	0.873	0.437
600	3.159	4.459	4.459	6.317	2.434	1.263	0.632

NOTES:
1) CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2) KEEP CONCRETE CLEAR OF JOINTS AND ACCESSORIES.
3) IF NOT SHOWN ON PLANS, REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED ABOVE, ADJUST IF NECESSARY TO CONFORM TO THE TEST PRESSURES AND ALLOWABLE SOIL BEARING STRESS(ES).
4) BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.

NOTE: ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 1034 kPa (150 P.S.I.) AND AN ALLOWABLE SOIL BEARING STRESS OF 95.760 kPa (2000 POUNDS PER SQ. FT.) TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:
BEARING AREA = (TEST PRESSURE/1034) x (95.760/SOIL BEARING STRESS) x (TABLE VALUE).

WATER MAIN THRUST BLOCKING

NOT TO SCALE

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED METRIC DIMENSIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242WDET6
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

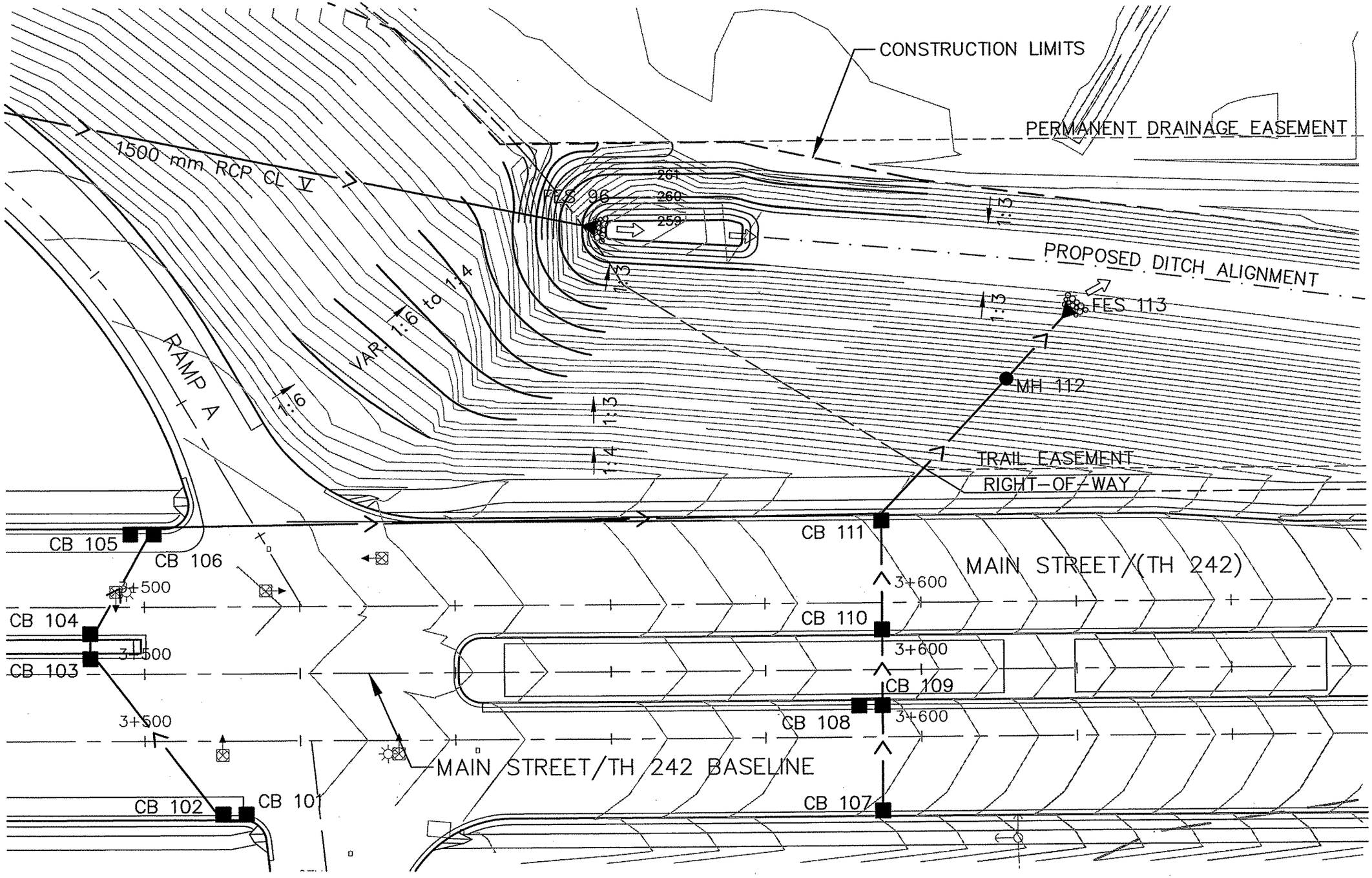
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
WATER MAIN DETAILS
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 233 / 539

PLOT DATE: Jan 5 JOO 1:09pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SI .GRING\242WDET6.dwg

F DRAWINGS
42-EUT
TILLPND
42MHETO
APBOX
42-WET
42-ESUM
42 N
42 4
42E- nL I
42E-CLM



NORTH
2.5 0 5 10
HORIZONTAL SCALE IN METERS

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1 OF 4

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	5/5/00	MOD. REQ. #19: CHANGED TO SHEET 1 OF 4
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM | DESIGN BY: KPK/JJL
CHKD. BY: KPK/PBD | DWG. NAME: 242EDR25
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
GRADING PLAN
STILLING POND

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 234 / 539

PLOT DATE: May 0_, _000 11:44am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH_ _+2edr25.dwg

DRAWINGS
osp-pond
242PLN2A
242MHETO
242MHECN
SAPBOX
242-WET
242E-ALI
242E-CLM

℄ COON CREEK BOULEVARD
CONSTRUCTION LIMITS
WETLAND BOUNDARY
SEE PLAN SHEET 235A FOR BERM GRADING PLAN
5.5 m MAINTENANCE SHELF (SHADED)
COON CREEK (COUNTY DITCH 57)
COON CREEK BOULEVARD (C.S.A.H. 18)
259.90
X 261.10
250.90
FES 1001
FES 1003
FES 1000
FES 1002
LOW FLOW CHANNELS, EACH w/18 m3 CL III RIPRAP AND 60 m2 CL IV FILTER FABRIC (6m x 10m EACH)
STORM WATER POND
N.W.L. 259.15
H.W.L. 261.82
X 255.00
PRIMARY WETLAND MITIGATION AREA
N.W.L. 259.10
H.W.L. 261.82
X 258.00
FES 504
FES 502
FES 1004
FES 1006
FES 1005
FES 1007
10 m3 CL III RIPRAP AND 20 m2 CL IV FILTER FABRIC
MAIN STREET/TH 242
FES 508
MAIN STREET/TH 242 BASELINE
1:10
1:4
1:3
1:2
5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

2 OF 4

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED POND GRADING ON NORTH AND NOTHEAST SIDE
2	JJL	5/5/00	MOD. REQ. #19: MOD. NE CORNER OF POND, ADDED BERM
3	JJL	07/17/01	MOD. REQ. #74: MODIFY GRADING PLAN, ADD CULVERTS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM
DESIGN BY: KPK/JJL
CHKED. BY: KPK/PBD
DWG. NAME: 242EDR22
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
DRAINAGE PLAN
PROPOSED MITIGATION POND

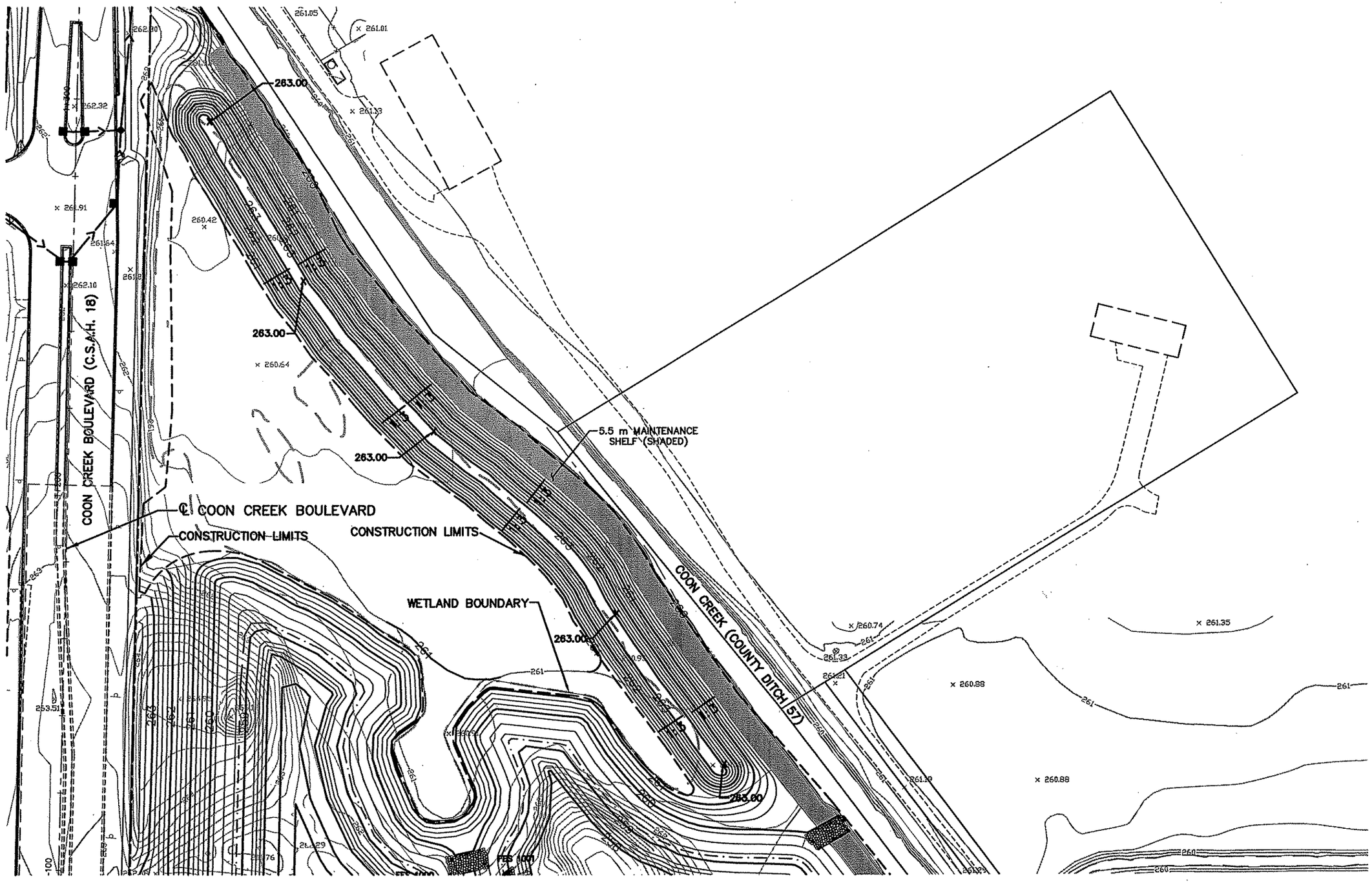
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 235 / 539

PLOT DATE: Jul 16, 01 1:02pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SHT\...edr22.dwg

F DRAWINGS
osp-pond
242PLN2A
242MHETO
242MHECN
SAPBOX
242-WET
242E-ALI
242E-CLM



3 OF 4

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	5/5/00	MOD. REQ. #19: DESIGNED BERM NORTH OF POND
2	JJL	07/17/01	MOD. REQ. #74: MODIFIED GRADING PLAN

DESIGN FILE: 33889028
DRAWN BY: PJM/JJL
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242EDR23
DATE: MAY 5, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 5/4/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
DRAINAGE PLAN
PROPOSED BERM

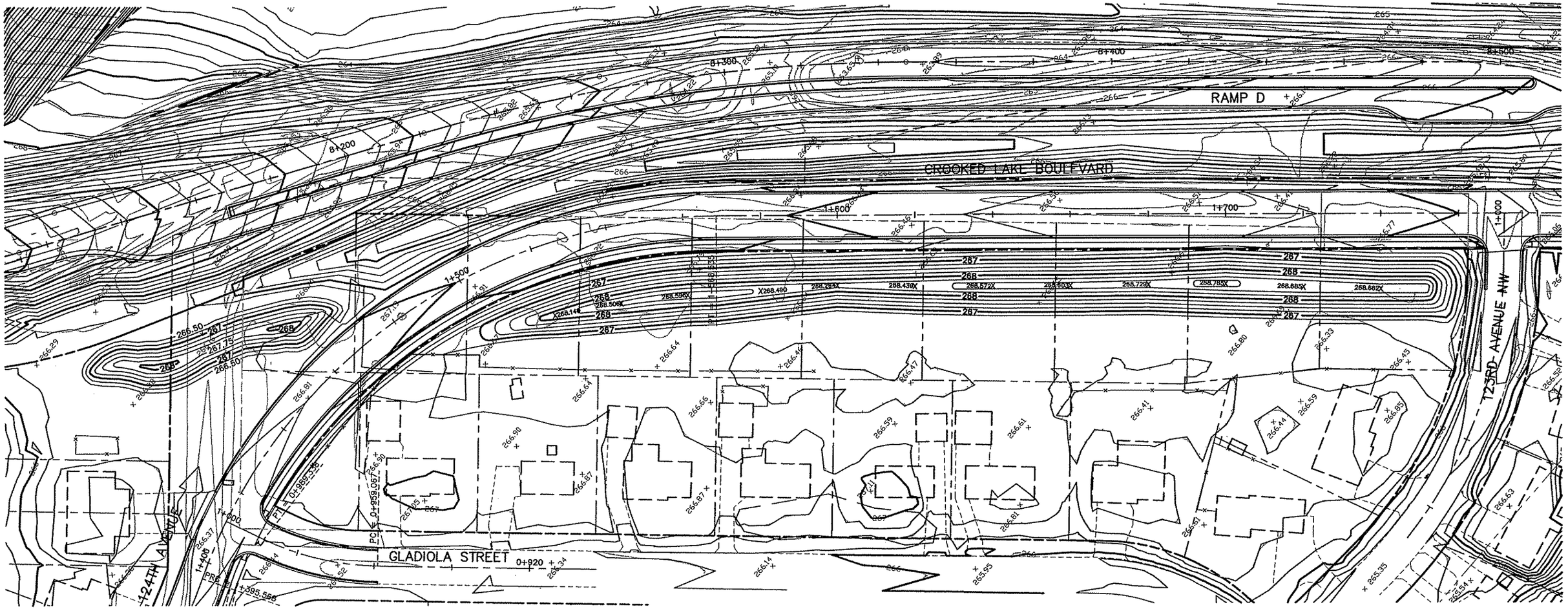
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 235A / 539

PLOT DATE: Jul 16, 01 1:04pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SH1 edr23.dwg

DRAWINGS
12-ESUM
12MHECN
12PRCON
12E-ALI
12E-PLN
12PLNW
12-ALIW
12" "O
Af



LEGEND:

PROPOSED CONTOUR ——268——

EXISTING CONTOUR —— 266 ——

5 0 10 20

HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

4 OF 4

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD, MODIFIED GRADING
2	JJL	5/5/00	MOD. REQ. #19: ROUND BERM, CHANG TO SHEET 4 OF 4
3	JJL	11/29/00	MOD REQ. #72: MOD. BERM ON WEST SIDE
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY:
CHKED. BY: PBD/KPK
DWG. NAME: CRKLKGD
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BOULEVARD

GRADING PLAN

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

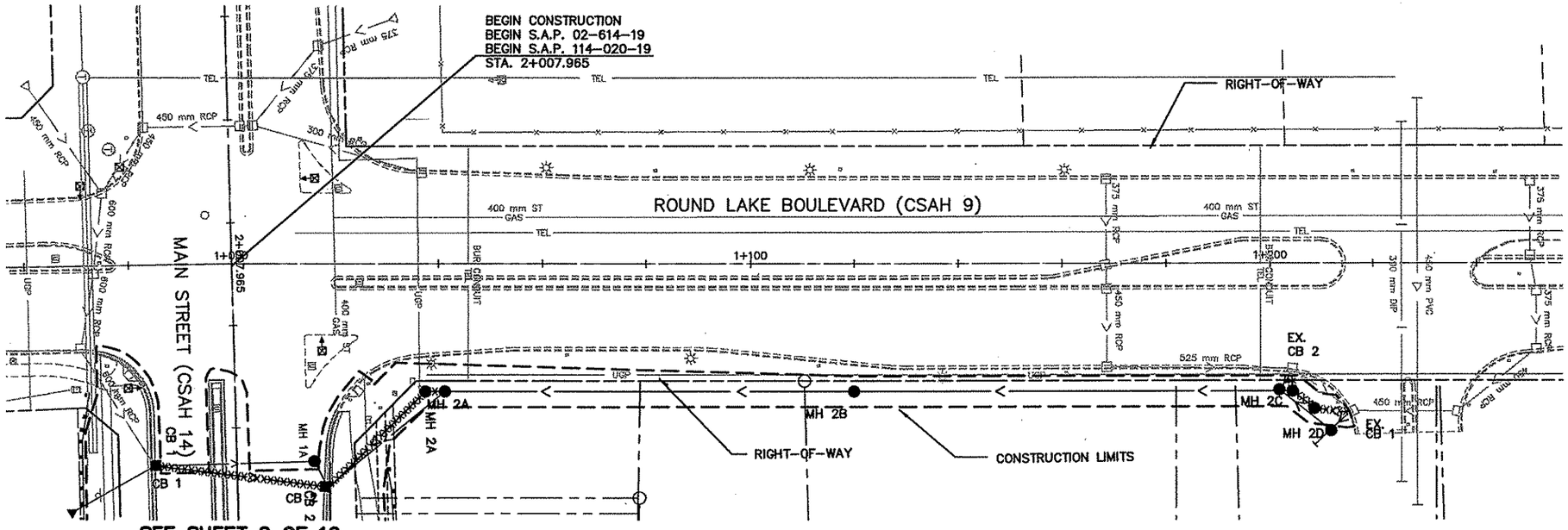
SHEET NO. 236 / 539

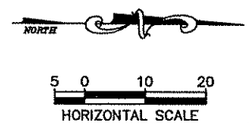
PLOT DATE: Nov 4, 00 2:58pm DISK FILE NAME: (15.0in (Hardware Lock)) R:\33889\33889028\...GW\PLAN_SHT\ENGRING\CRKLKGD.dwg

J DRAWINGS
42CLM-W
42-ESUM
42-EUT
42-PUT
42EROSN
APBOX
42PLNW
42-ALIW
42 D

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE APPROPRIATE EROSION CONTROL DEVICES FOR STOCKPILE AREAS.
2. SILT FENCE SHALL FOLLOW, AS CLOSE AS POSSIBLE, A SINGLE CONTOUR LINE.
3. IF SEDIMENT DEPOSITS IN WATERS OF THE STATE, THE MATERIAL MUST BE REMOVED WITHIN SEVEN DAYS. SEE NPDES PERMIT SECTION 1EC.





AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND

CONSTRUCTION LIMITS - THIS CONTRACT	— — — —
STRUCTURE NUMBER	CBMH 123
CATCH BASIN	■
APRON	▶
INPLACE APRON	▷
SEWER (STORM)	→→
CULVERT	▶→◀
SILT FENCE	▪▪▪▪▪▪
SILT CURTAIN	xxxxxxxxxxxxxxx
HAY OR STRAW BALES - BALE CHECKS	+++++
RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE	▩
SOD APRON INLET OR OUTLET	Ⓢ
SURFACE FLOW DIRECTION	⇨

LAND FEATURE CHANGES (IN HECTARES)	BEFORE CONSTRUCTION	AFTER CONSTRUCTION
TOTAL PROJECT AREA:	30.745 ha	30.745 ha
TOTAL IMPERVIOUS SURFACE AREA OF PROJECT:	8.636 ha	14.215 ha
TOTAL PERVIOUS AREA OF PROJECT:	22.109 ha	16.530 ha
TOTAL ESTIMATED AREA OF ULTIMATE DEVELOPMENT:	39.420 ha	39.420 ha
TOTAL ESTIMATED IMPERVIOUS SURFACE AREA OF ULTIMATE DEVELOPMENT:	10.450 ha	19.491 ha
TOTAL ESTIMATED PERVIOUS AREA OF ULTIMATE DEVELOPMENT:	28.970 ha	19.929 ha

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC00
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
ROUND LAKE BOULEVARD

EROSION CONTROL PLAN
STA. 1+000-STA. 1+260

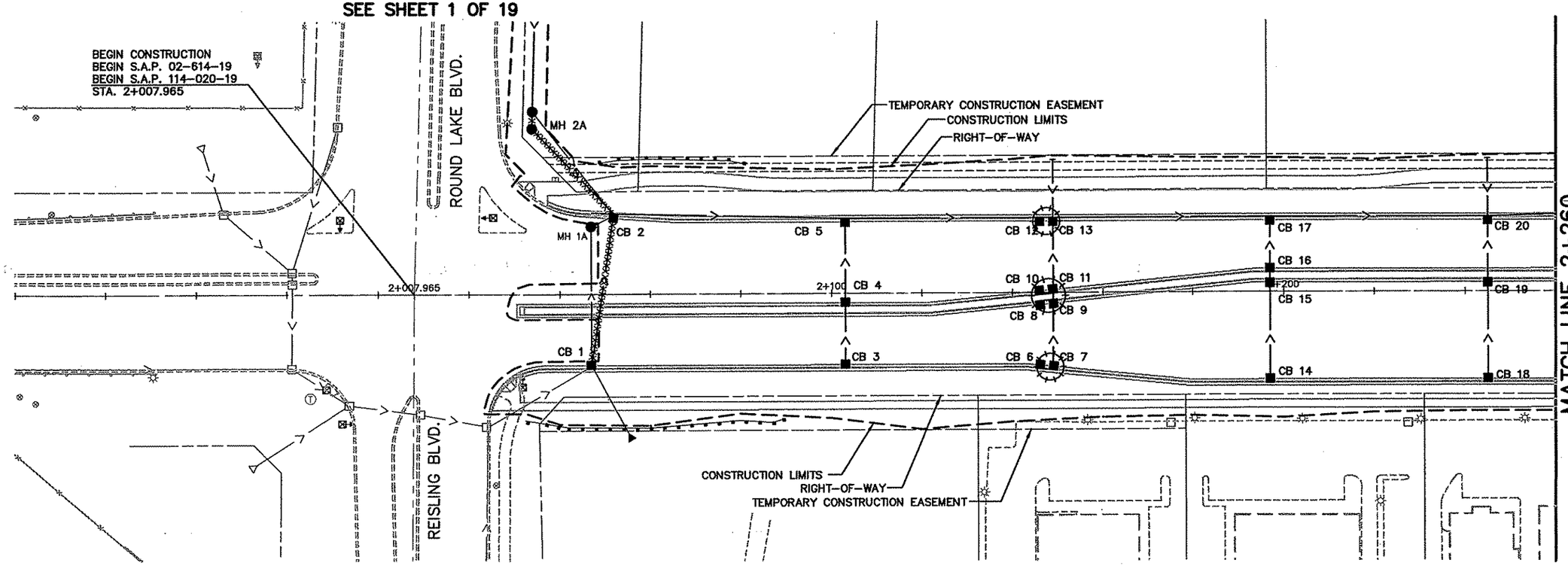
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 237 / 539

PLOT DATE: Apr 6, 2004 3:1pm DISK FILE NAME: (15.06) R:\33889\33889028\33889WPLAN_Sh--\ENGRING\242EC00.dwg

J DRAWINGS
I2EROSN
I2CLM-W
I2-PUT
\PBOX
I2PLNW
I2-ALIW
I2-ESUM



LEGEND

CONSTRUCTION LIMITS – THIS CONTRACT	
STRUCTURE NUMBER	CBMH 123
CATCH BASIN	
APRON	
INPLACE APRON	
SEWER (STORM)	
CULVERT	
SILT FENCE	
SILT CURTAIN	
HAY OR STRAW BALES – BALE CHECKS	
RIPRAP CLASS III / TEMPORARY CONST. ENTRANCE	
SOD APRON INLET OR OUTLET	S
SURFACE FLOW DIRECTION	

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
EROSION CONTROL PLAN
STATION 2+007.965 TO STATION 2+260.000

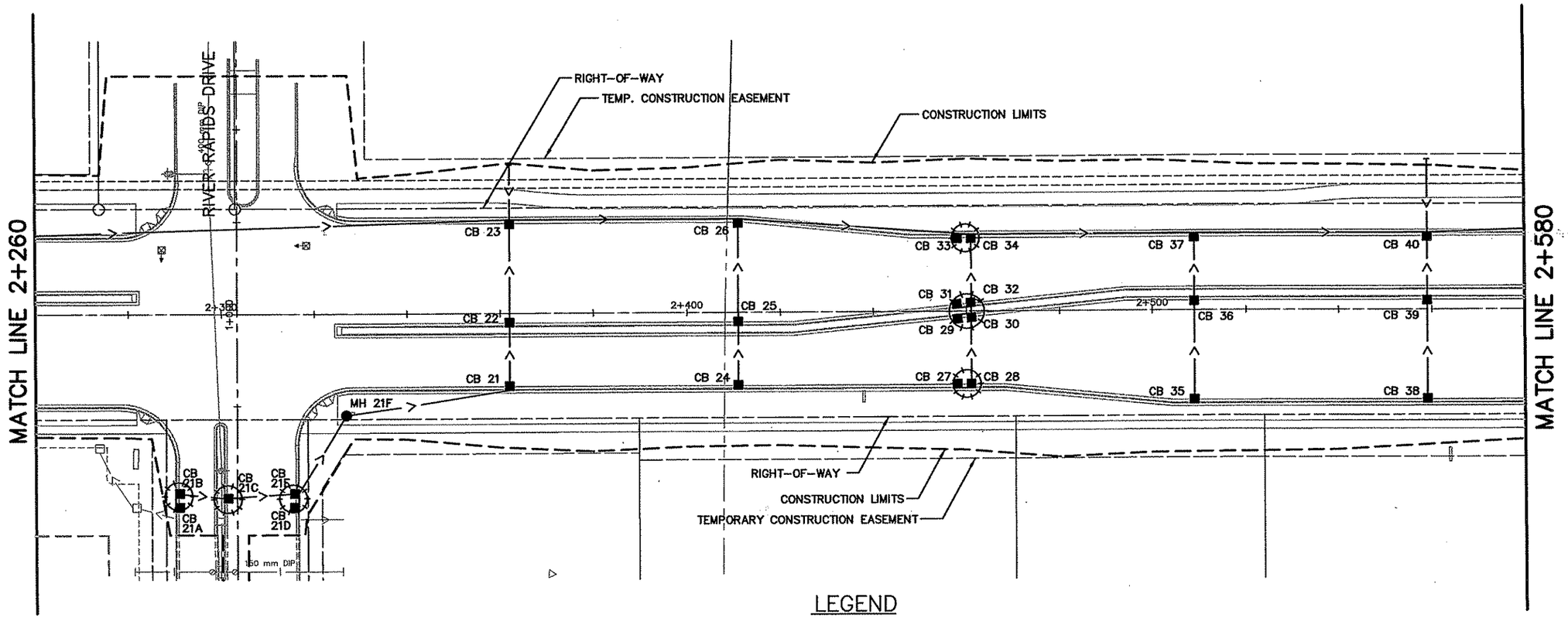
CITY PROJECT 98-20

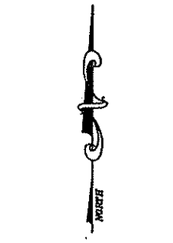
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 238 / 539

PLOT DATE: Apr 04, ..004 3:19pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...\NGRING\242ec01.dwg

DRAWINGS
12EROSN
12-PUT
12CLM-W
\PBOX
12-ESUM
12PLNW
12-ALIW
12M"TO
12





LEGEND

CONSTRUCTION LIMITS – THIS CONTRACT	
STRUCTURE NUMBER	CBMH 123
CATCH BASIN	■
APRON	▶
INPLACE APRON	▷
SEWER (STORM)	
CULVERT	
SILT FENCE	
SILT CURTAIN	xxxxxxxxxxxxxxx
HAY OR STRAW BALES – BALE CHECKS	
RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE	
SOD APRON INLET OR OUTLET	Ⓢ
SURFACE FLOW DIRECTION	

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
EROSION CONTROL PLAN
STATION 2+260.000 TO STATION 2+580.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 239 / 539

PLOT DATE: Apr 6, 2004 3:19pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...\ENGRING\242ec02.dwg

DRAWINGS
42EROSN
42CLM-W
42-PUT
APBOX
42PLNW
42-ALIW
42-COLM
42
42

LEGEND

CONSTRUCTION LIMITS – THIS CONTRACT	
STRUCTURE NUMBER	CBMH 123
CATCH BASIN	■
APRON	▶
INPLACE APRON	▷
SEWER (STORM)	
CULVERT	
SILT FENCE	
SILT CURTAIN	xxxxxxxxxxxxxxx
HAY OR STRAW BALES – BALE CHECKS	
RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE	
SOD APRON INLET OR OUTLET	Ⓢ
SURFACE FLOW DIRECTION	⇨

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

SEE SHEET 17 OF 19

MATCH LINE 2+580

RIVER VILLAGE BOULEVARD

TEMP. CONSTRUCTION EASEMENT

CONSTRUCTION LIMITS

RIGHT-OF-WAY

CB 41G, CB 41H, CB 41, CB 41J, MH 500, MH 501, MH 502, CB 44, CB 47, CB 51, CB 58, CB 59, CB 62, CB 50, CB 56, CB 57, CB 54, CB 55, CB 61, CB 63, CB 42, CB 46, CB 49, CB 41, CB 45, CB 48, CB 52, CB 53, CB 60, MH 41F, CB 41B, CB 41E, CB 41A, CB 41C, CB 41D, CB 212, CB 213, CB 214, CB 215, CB 209, CB 210

2+600, 2+700, 1+800, 1+900, 2+000, 2+100

200 mm DIP, 375 mm PVC, 450 mm ST CASING, 300 mm PVC, 150 mm DIP

RIGHT-OF-WAY

CONSTRUCTION LIMITS

PLANTING EASEMENT

NORTHDALE BLVD.

MATCH LINE 2+900

SEE SHEET 16 OF 19

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242EC03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
EROSION CONTROL PLAN
STATION 2+580.000 TO STATION 2+900.000

CITY PROJECT 98-20

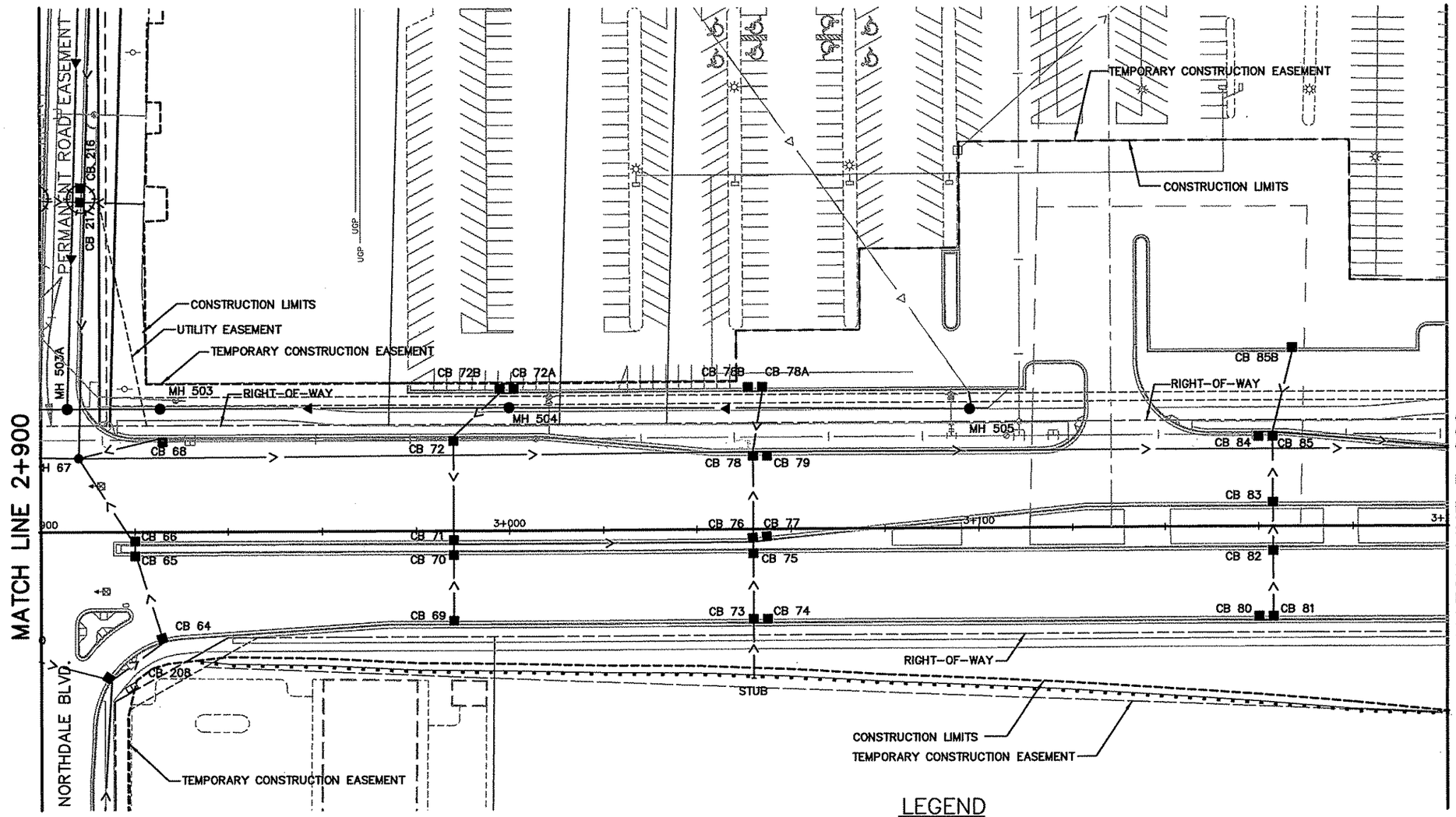
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 240 / 539

PLOT DATE: Apr 04, 2004 3:20pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\242ec03.dwg

F DRAWINGS
42EROSN
42—PUT
42CLM—W
APBOX
42PLNW
42—ALIW
42—ESUM
42MISTO
42

SEE SHEET 17 OF 19



SEE SHEET 16 OF 19

5 0 10 20
HORIZONTAL SCALE
IN METERS

LEGEND

CONSTRUCTION LIMITS — THIS CONTRACT	— — — —
STRUCTURE NUMBER	CBMH 123
CATCH BASIN	■
APRON	▶
INPLACE APRON	▷
SEWER (STORM)	→→
CULVERT	▶→◀
SILT FENCE	▪▪▪▪▪
SILT CURTAIN	xxxxxxxxxxxxxxx
HAY OR STRAW BALES — BALE CHECKS	+++++
RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE	▩
SOD APRON INLET OR OUTLET	Ⓢ
SURFACE FLOW DIRECTION	⇨

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	7/5/00	MOD. REQ. #36: REVISED MENARDS ENTRANCE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JUL
CHKED. BY: KPK | DWG. NAME: 242EC04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
EROSION CONTROL PLAN
STATION 2+900.000 TO STATION 3+200.000

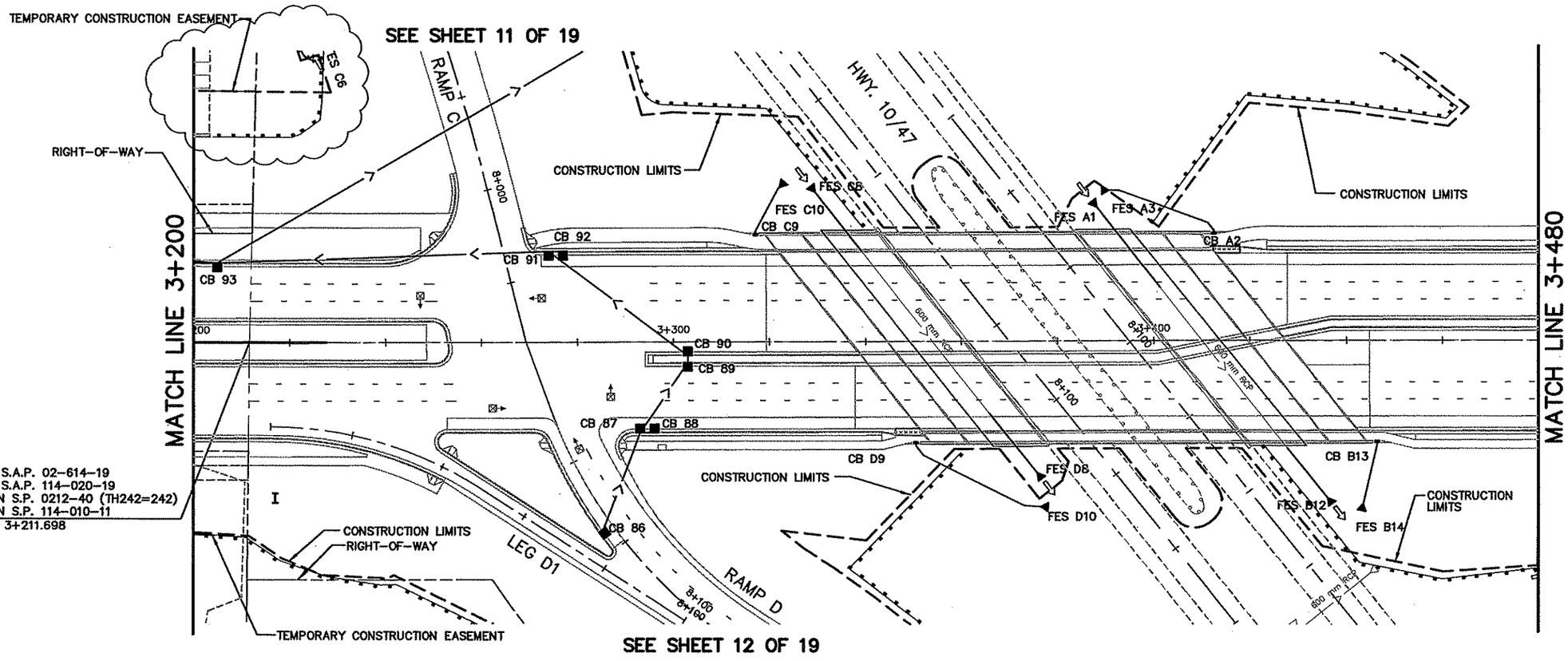
CITY PROJECT 98-20

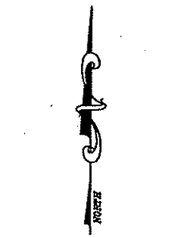
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 241 / 539

PLOT DATE: Apr 04, 2004 3:20pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\242ec04.dwg

LF DRAWINGS
42-EUT
42-ESUM
42MHETO
42E_DRN
42EROSN
42-PUT
AP
42 N
42E LN
42E-CLM
42E-ALI
42PLNW





LEGEND

CONSTRUCTION LIMITS – THIS CONTRACT	
STRUCTURE NUMBER	CBMH 123
CATCH BASIN	■
APRON	▶
INPLACE APRON	▷
SEWER (STORM)	
CULVERT	
SILT FENCE	
SILT CURTAIN	
HAY OR STRAW BALES – BALE CHECKS	
RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE	
SOD APRON INLET OR OUTLET	Ⓢ
SURFACE FLOW DIRECTION	

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

6 OF 19

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	7/5/00	MOD. REQ. #36: REMOVED WALL, MOD. SILT FENCE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242EC05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/TH 242)
EROSION CONTROL PLAN
STATION 3+200.000 TO STATION 3+480.000

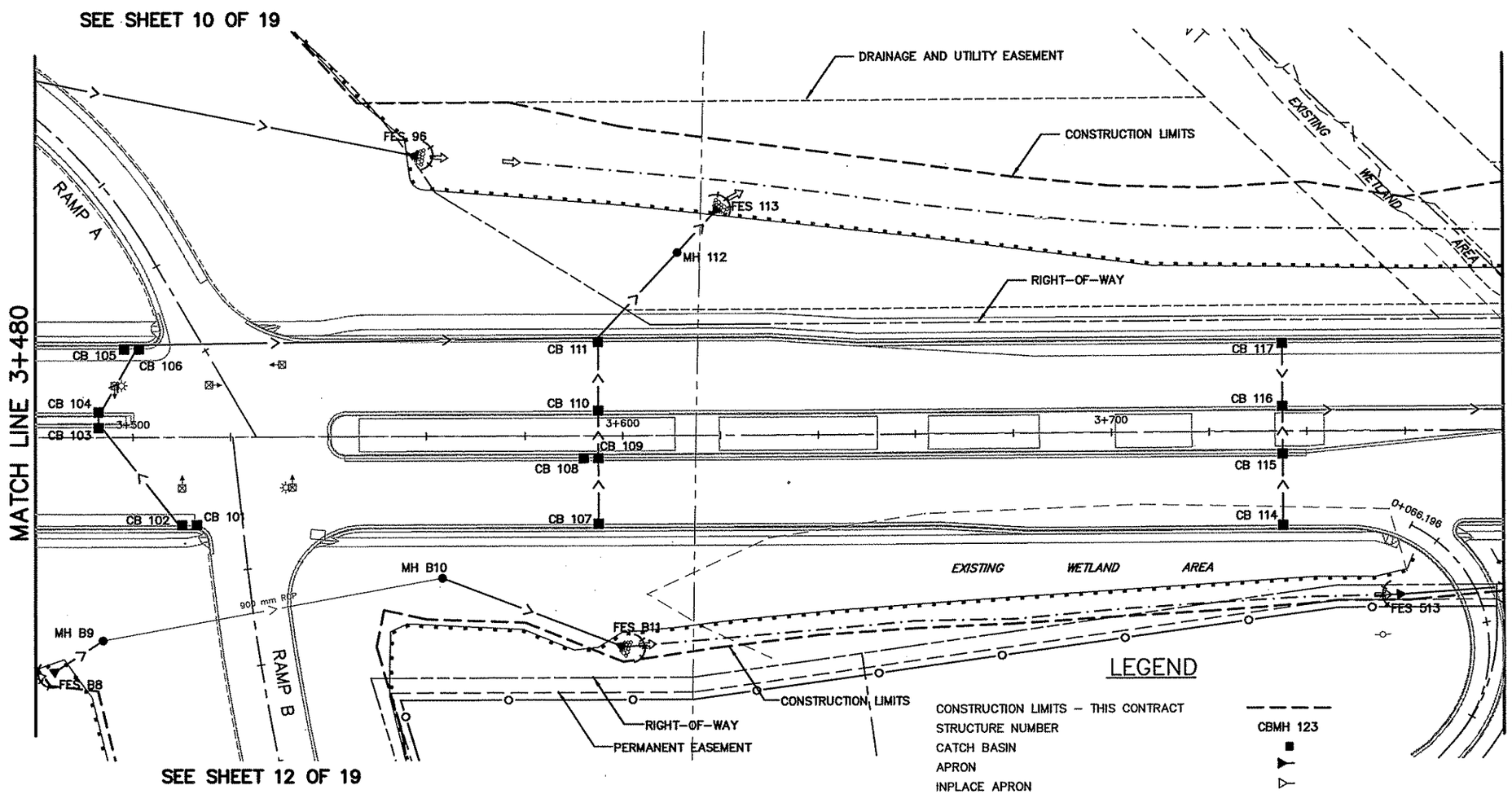
CITY PROJECT 98-20

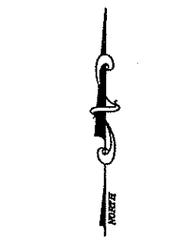
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 242 / 539

PLOT DATE: Jun 28, 2000 2:40pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\242EC05.dwg

F DRAWINGS
12-ESUM
12-WET
12EROSN
12-EUT
12MHETO
12E_DRN
\PB^
12'
12\
12E-AL1





LEGEND

CONSTRUCTION LIMITS – THIS CONTRACT	
STRUCTURE NUMBER	CBMH 123
CATCH BASIN	
APRON	
INPLACE APRON	
SEWER (STORM)	
CULVERT	
SILT FENCE	
SILT CURTAIN	xxxxxxxxxxxxxxx
HAY OR STRAW BALES – BALE CHECKS	
RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE	
SOD APRON INLET OR OUTLET	Ⓢ
SURFACE FLOW DIRECTION	

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33B89028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC06
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
DATE: 11/5/99 MINN. REG. NO. 23211

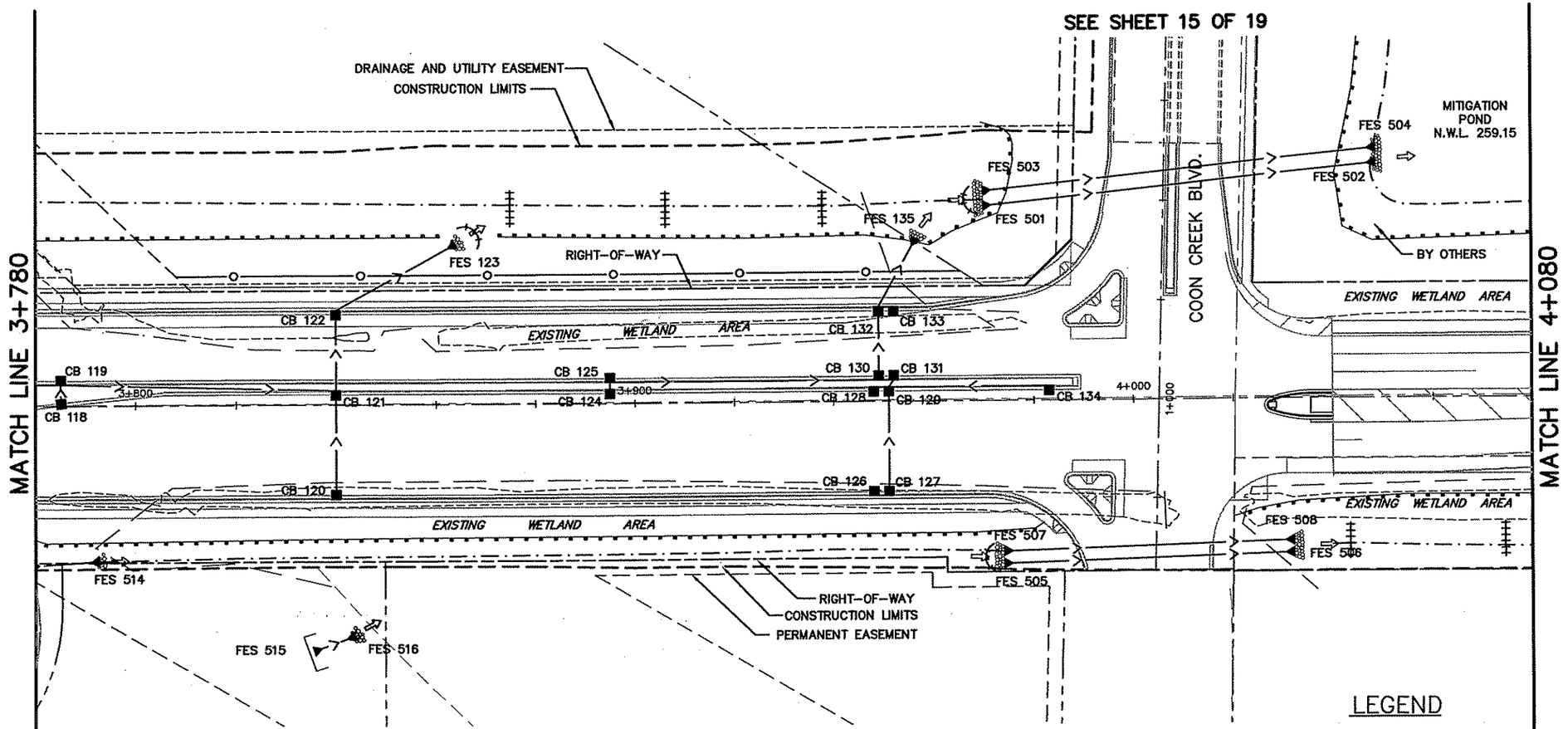
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
EROSION CONTROL PLAN
STATION 3+480.000 TO STATION 3+780.000

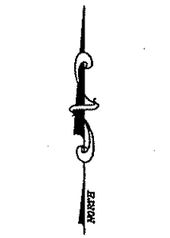
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 243 / 539

PLOT DATE: Dec 31, 1999 12:52pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\242EC06.dwg





LEGEND

- CONSTRUCTION LIMITS – THIS CONTRACT
- STRUCTURE NUMBER (1111)
- CATCH BASIN
- APRON
- INPLACE APRON
- SEWER (STORM)
- CULVERT
- SILT FENCE
- SILT CURTAIN
- HAY OR STRAW BALES – BALE CHECKS
- RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE
- SOD APRON INLET OR OUTLET
- SURFACE FLOW DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED D/W 3+852.540, EXTENDED SILT FENCE
			DELETED FES 509, 510, 511 & 512
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (TH 242)
EROSION CONTROL PLAN
STATION 3+780.000 TO STATION 4+080.000

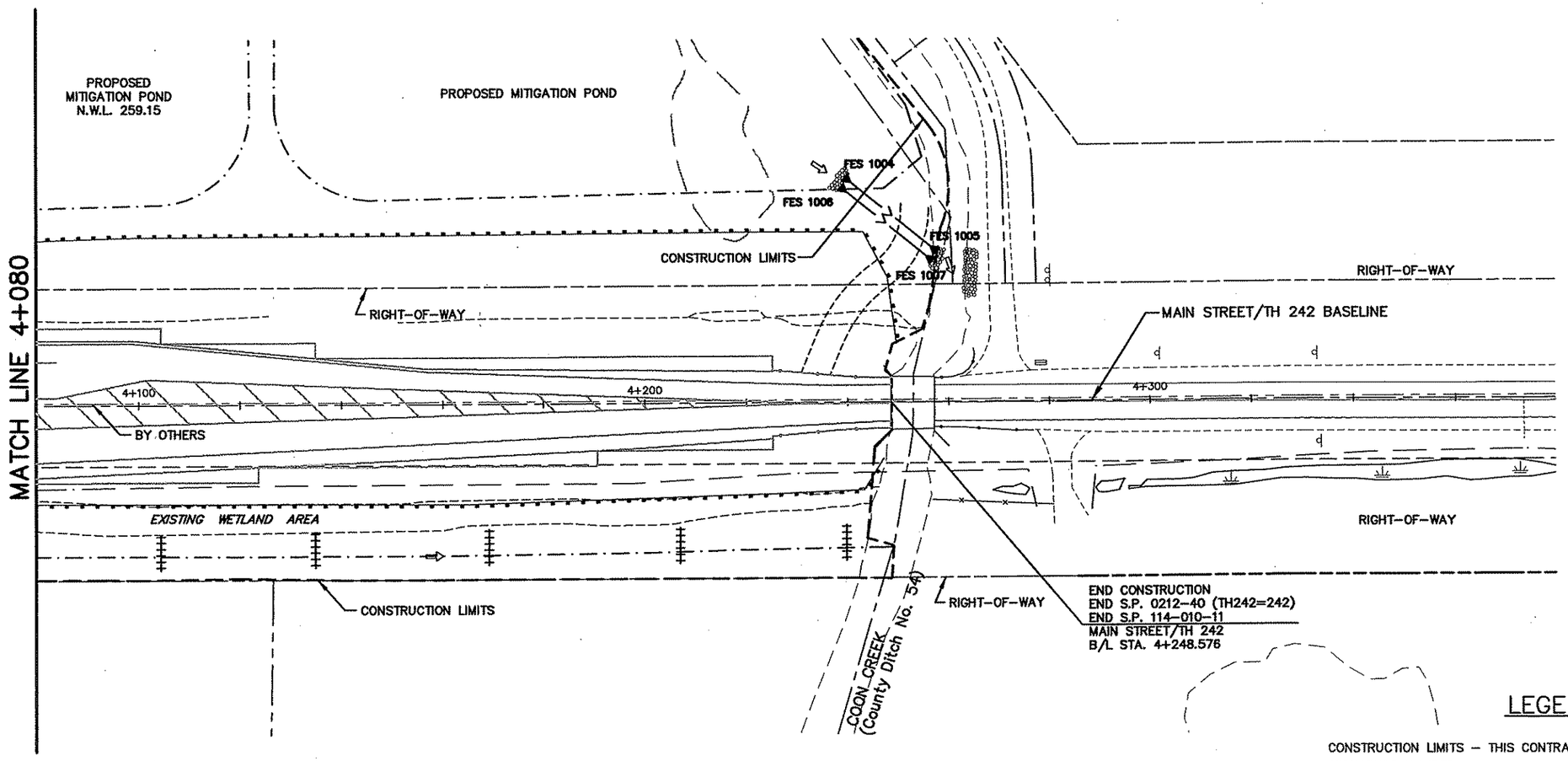
CITY PROJECT 98-20

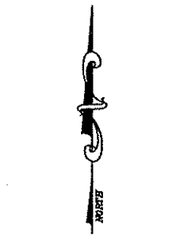
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 244 / 539

PLOT DATE: Apr 06, 2004 7:13pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SHT\2+2EC07.dwg

P DRAWINGS
ITPOND2
42PLN2A
42EROSN
42MHETO
42-WET
42-ESUM
42-N
AF
42E-N
42E-CLM
42E-ALI
42-EUT





LEGEND

- CONSTRUCTION LIMITS – THIS CONTRACT
- STRUCTURE NUMBER (1111)
- CATCH BASIN
- APRON
- INPLACE APRON
- SEWER (STORM)
- CULVERT
- SILT FENCE
- SILT CURTAIN
- HAY OR STRAW BALES – BALE CHECKS
- RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE
- SOD APRON INLET OR OUTLET
- SURFACE FLOW DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC07a
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO.: 23211

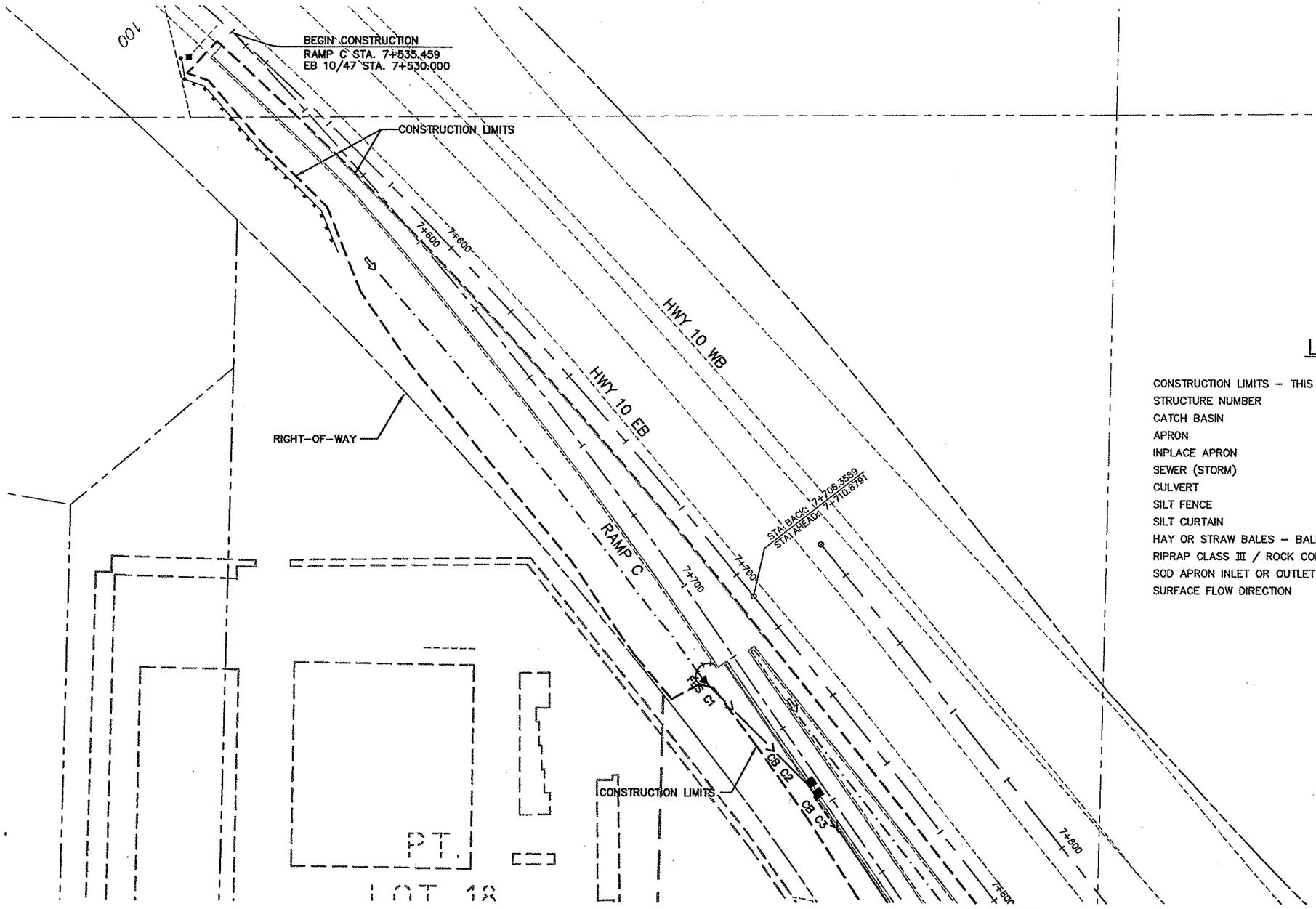
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (TH 242)
EROSION CONTROL PLAN
STATION 4+080.000 TO STATION 4+248.576

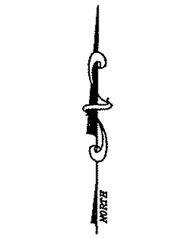
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 245 / 539

PLOT DATE: Apr 06, 2004 7:13pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SHT\242EC07a.dwg





LEGEND

- CONSTRUCTION LIMITS – THIS CONTRACT
- STRUCTURE NUMBER — CBMH 123
- CATCH BASIN
- APRON
- INPLACE APRON
- SEWER (STORM)
- CULVERT
- SILT FENCE
- SILT CURTAIN
- HAY OR STRAW BALES – BALE CHECKS
- RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE
- SOD APRON INLET OR OUTLET
- SURFACE FLOW DIRECTION

SEE SHEET 11 OF 19

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
US HIGHWAY 10, RAMP C ACCESS AREA
EROSION CONTROL PLAN
STATION 7+520.000 TO STATION 7+800.000

CITY PROJECT 98-20

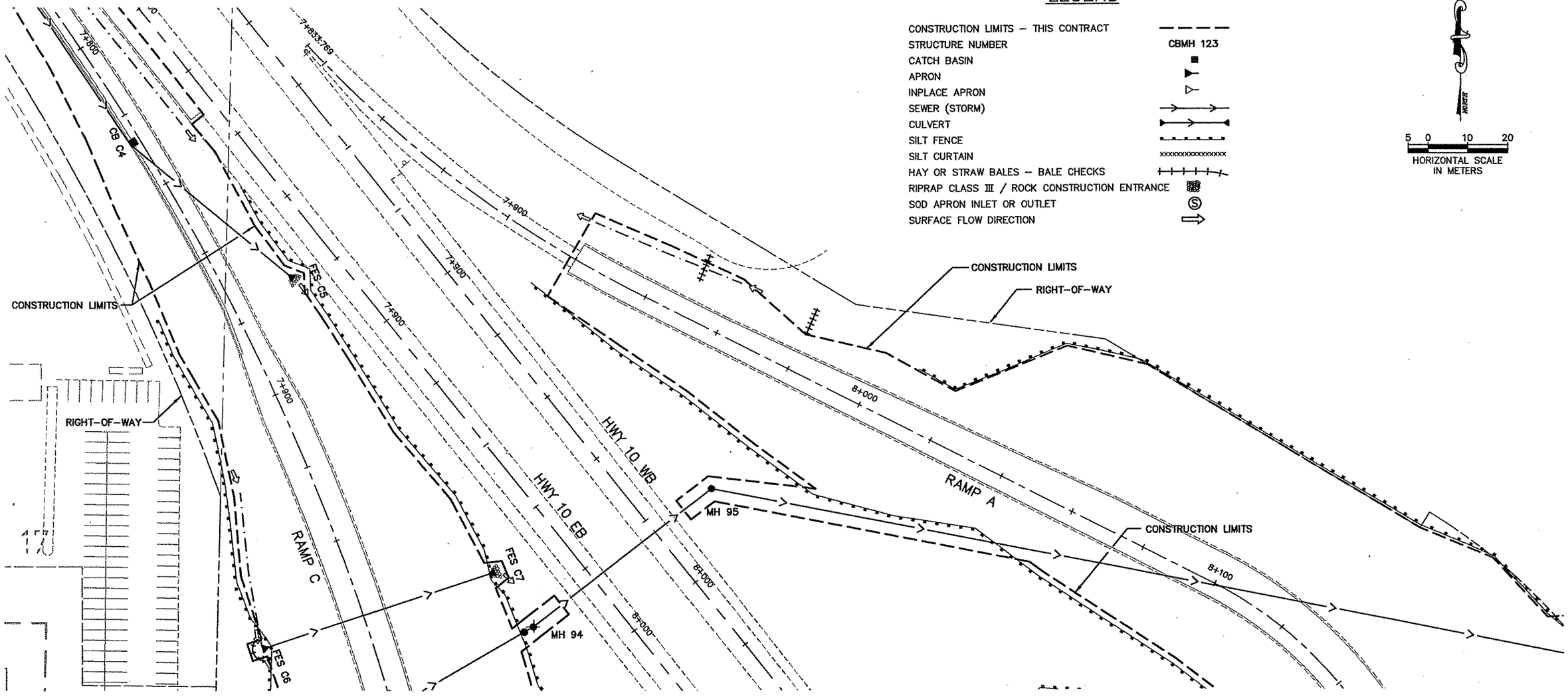
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 246 / 539

PLOT DATE: Apr 0_ ,04 7:19pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SH_ _42EC08.dwg

42--WET
42--ESUM
42EROSN
42E_DRN
42E--PLN
42E--CLM
42E--ALI
APP
42)

SEE SHEET 10 OF 19



LEGEND

- CONSTRUCTION LIMITS – THIS CONTRACT
- STRUCTURE NUMBER — CBMH 123
- CATCH BASIN
- APRON
- INPLACE APRON
- SEWER (STORM)
- CULVERT
- SILT FENCE
- SILT CURTAIN
- HAY OR STRAW BALES – BALE CHECKS
- RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE
- SOD APRON INLET OR OUTLET
- SURFACE FLOW DIRECTION

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

SEE SHEET 6 OF 19

SEE SHEET 7 OF 19

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC09
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
US HIGHWAY 10, RAMP C, RAMP A
EROSION CONTROL PLAN
STATION 7+800.000 TO STATION 8+020.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 247 / 539

PLOT DATE: Dec 29, 1999 6:56pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\x+42EC09.dwg

DRAWINGS
2-PUT
2-ESUM
2EROSN
2E_DRN
PBOX
2CLM-W
2E-CLM
2F
2L
2PLnW
2-ALIW
2MHETO

SEE SHEET 7 OF 19

SEE SHEET 8 OF 19

LEGEND

- CONSTRUCTION LIMITS – THIS CONTRACT
- STRUCTURE NUMBER — CBMH 123
- CATCH BASIN
- APRON
- INPLACE APRON
- SEWER (STORM)
- CULVERT
- SILT FENCE
- SILT CURTAIN
- HAY OR STRAW BALES – BALE CHECKS
- RIPRAP CLASS III / ROCK CONST. ENTRANCE
- SOD APRON INLET OR OUTLET
- SURFACE FLOW DIRECTION

CONSTRUCTION LIMITS
RAMP D
RAMP B
HWY. 10 EB
HWY. 10 WB
CROOKED LAKE BOULEVARD
124TH AVE. N.W.
GLADIOLA ST. N.W.
HEATHER ST.
MATCH LINE 1+380
SEE SHEET 18 OF 19
RIGHT-OF-WAY
PERMANENT EASEMENT
CONSTRUCTION LIMITS
CB 301
CB 302
CB 303
CB 304
CB D1
CB D3
CB D5
CB B1
CB B3
CB B4
FES 305
FES D4
FES B2
FES B4
FOW PT.
8+100
8+150
8+200
8+250
8+300
8+400
1+500
1+600
1+700
0+920
0+940
600 mm RCP
200 mm PVC
150 mm CIP
NORTH
5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SEE SHEET 13 OF 19

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC11
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

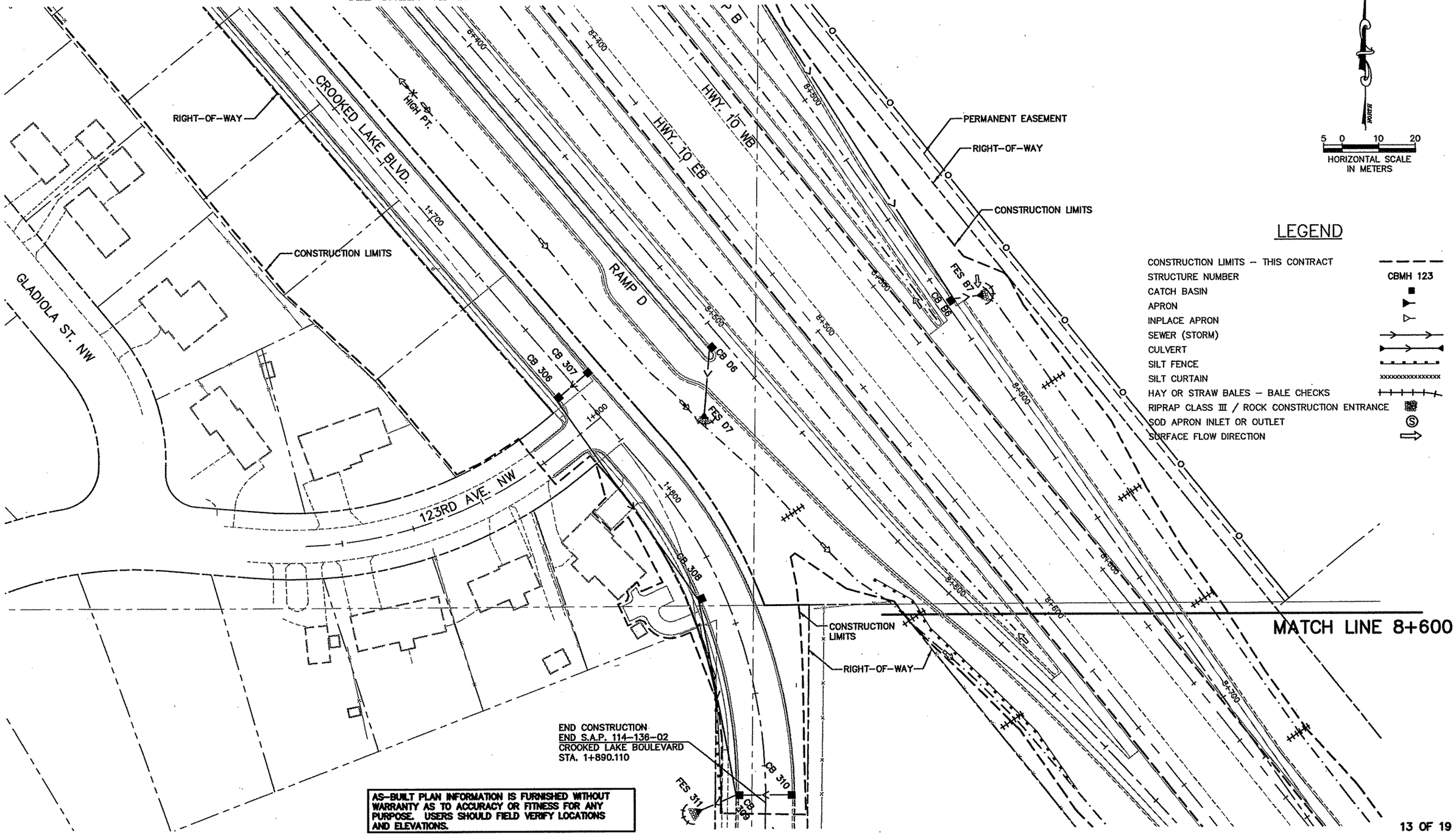
MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP B, RAMP D, 124TH AVE. N.W./
CROOKED LAKE BOULEVARD (C.S.A.H. 18)
EROSION CONTROL PLAN
STATIONS VARY
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 248 / 539

PLOT DATE: Dec 31, 1999 12:04pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\242EC11.dwg

SEE SHEET 12 OF 19



LEGEND

- CONSTRUCTION LIMITS – THIS CONTRACT
- STRUCTURE NUMBER — CBMH 123
- CATCH BASIN
- APRON
- INPLACE APRON
- SEWER (STORM)
- CULVERT
- SILT FENCE
- SILT CURTAIN
- HAY OR STRAW BALES – BALE CHECKS
- RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE
- SOD APRON INLET OR OUTLET
- SURFACE FLOW DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED 124th AVE./CROOKED LK. BLVD. SAP No.
			ADDED RAMP D PATROL PAD, MOVED FES D7
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC12
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP B, RAMP D and CROOKED LAKE BOULEVARD (C.S.A.H. 18)
EROSION CONTROL PLAN
STATIONS VARY

CITY PROJECT 98-20

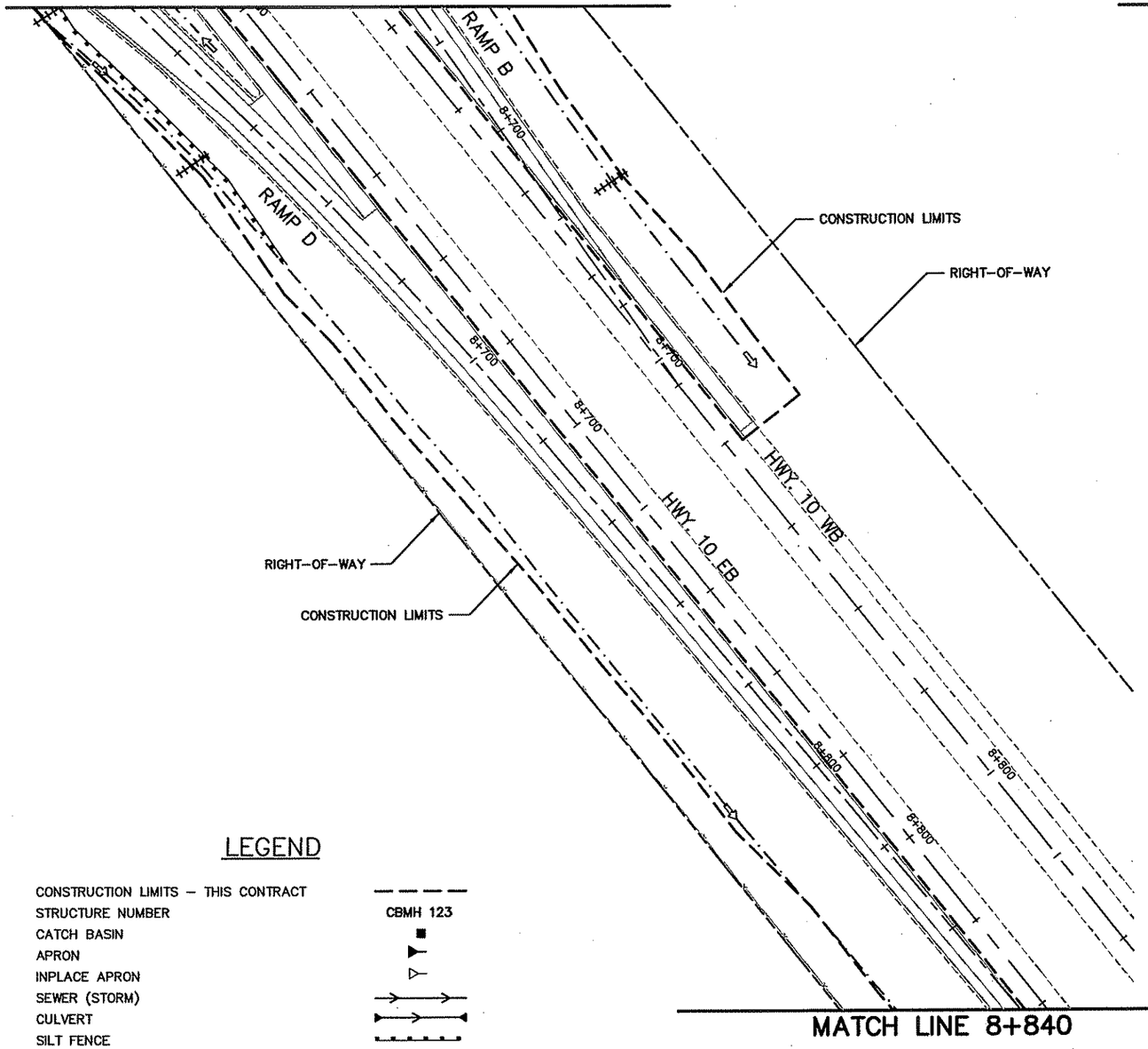
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 249 / 539

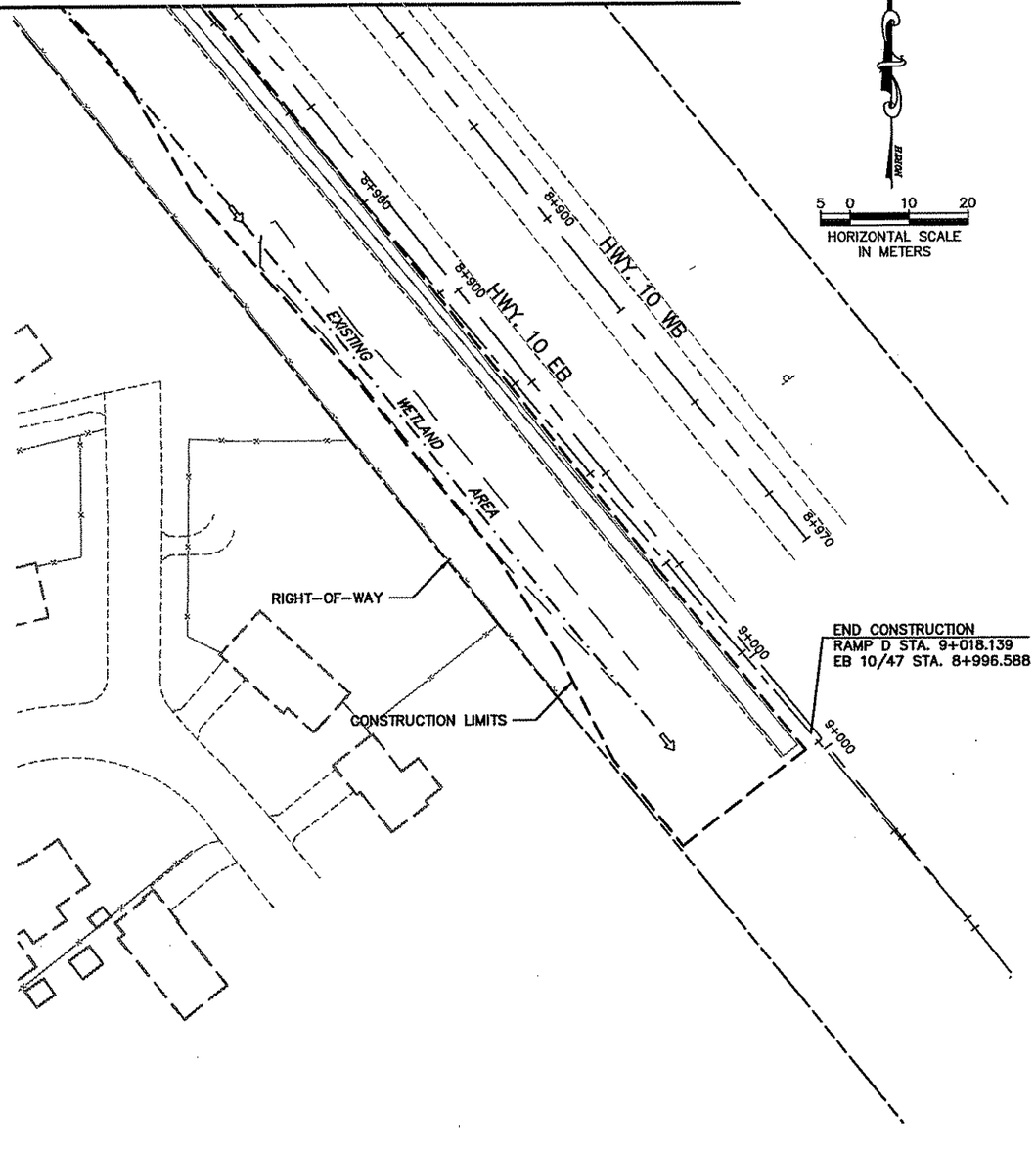
PLOT DATE: Dec 31, ...99 12:08pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT ...\EC12.dwg

DRAWINGS
12EROSN
12-ESUM
12E_DRN
12E-PLN
12E-CLM
12E-ALT
&PROV
12

MATCH LINE 8+600



MATCH LINE 8+840



LEGEND

CONSTRUCTION LIMITS – THIS CONTRACT	
STRUCTURE NUMBER	CBMH 123
CATCH BASIN	
APRON	
INPLACE APRON	
SEWER (STORM)	
CULVERT	
SILT FENCE	
SILT CURTAIN	
HAY OR STRAW BALES – BALE CHECKS	
RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE	
SOD APRON INLET OR OUTLET	
SURFACE FLOW DIRECTION	

MATCH LINE 8+840

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED REFERENCE TO SP NOs FOR TH 10/47
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC13
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP B ACCESS AREA,
RAMP D MERGE AREA, US HWY 10
EROSION CONTROL PLAN
STATION 8+600.000 TO STATION 8+996.588

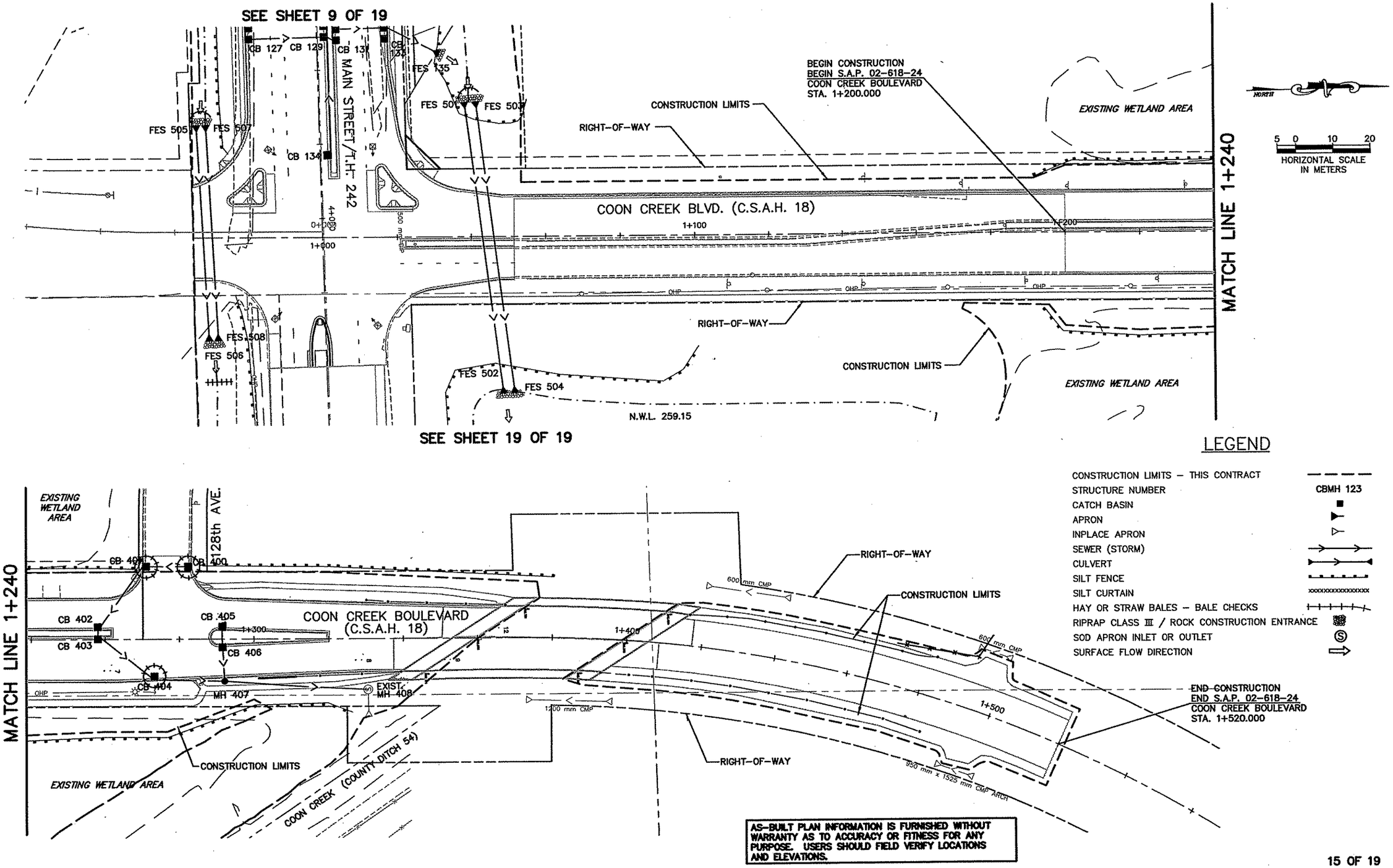
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 250 / 539

PLOT DATE: Dec 31, 99 12:13pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\242EC13.dwg

DRAWINGS
42PLN2A
ITPOND2
42-PUT
42-EUT
42-WET
42E-URN
APBOX
42E-CLM
42E-PLN
42MHETO



LEGEND

- CONSTRUCTION LIMITS – THIS CONTRACT
- STRUCTURE NUMBER — CBMH 123
- CATCH BASIN
- APRON
- INPLACE APRON
- SEWER (STORM)
- CULVERT
- SILT FENCE
- SILT CURTAIN
- HAY OR STRAW BALES – BALE CHECKS
- RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE
- SOD APRON INLET OR OUTLET
- SURFACE FLOW DIRECTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

15 OF 19

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED STA. CALL OUTS FOR SILT FENCE
			ADDED ALIGNMENT NAME FOR BEGIN & END STA.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242EC14
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.15.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

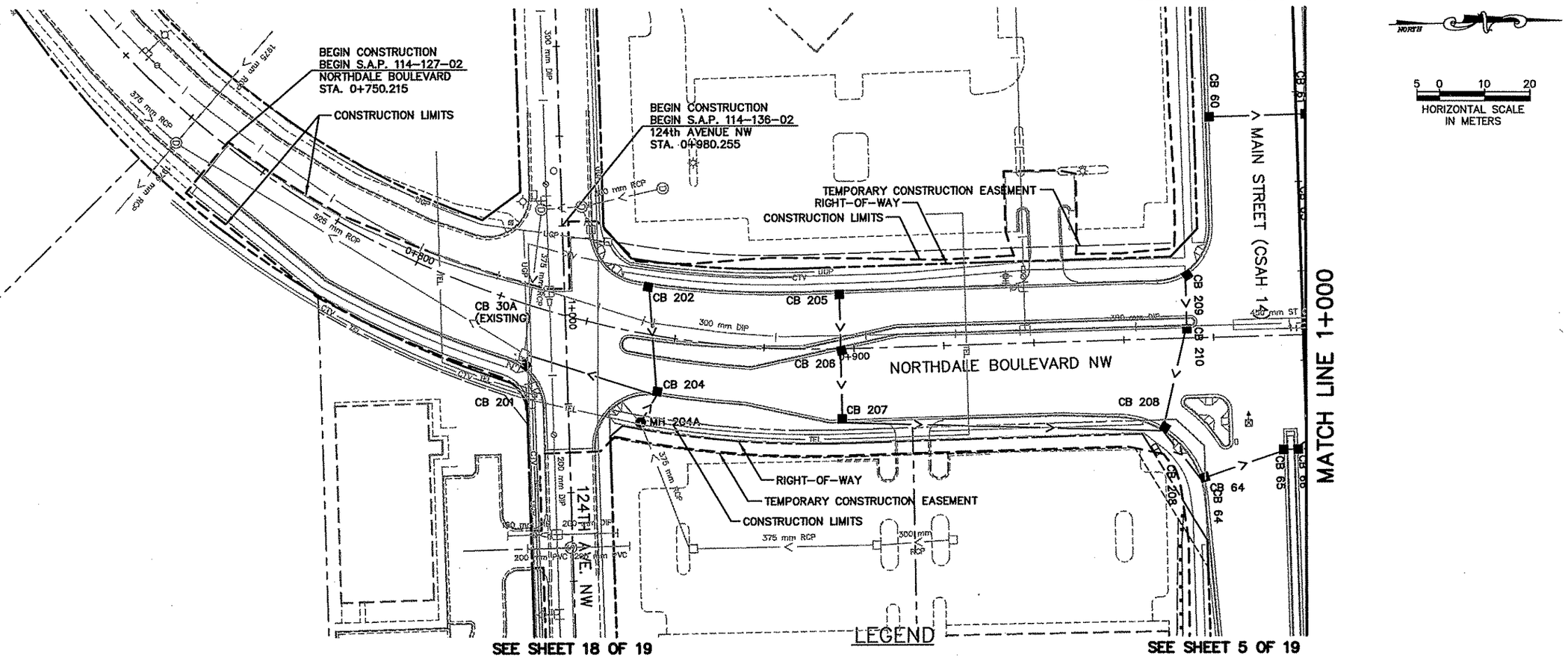
MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD (C.S.A.H. 18)
EROSION CONTROL PLAN
STATION 0+965.279 TO STATION 1+520.000
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 – 614 – 19
S.A.P. 02 – 618 – 24
S.P. 114 – 010 – 11
S.A.P. 114 – 020 – 19
S.A.P. 114 – 136 – 02
S.A.P. 114 – 127 – 02

SHEET NO. 251 / 539

PLOT DATE: Jan 300 10:57am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-S 42EC14.dwg

DRAWINGS
-2-EUT
-2EROSN
-2-ESUM
-2-PUT
-2CLM-W
-2-AL1W
-2PL
-2I



LEGEND

CONSTRUCTION LIMITS – THIS CONTRACT	
STRUCTURE NUMBER	CBMH 123
CATCH BASIN	
APRON	
INPLACE APRON	
SEWER (STORM)	
CULVERT	
SILT FENCE	
SILT CURTAIN	
HAY OR STRAW BALES – BALE CHECKS	
RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE	
SOD APRON INLET OR OUTLET	
SURFACE FLOW DIRECTION	

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

16 OF 19

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED 124th AVE. BEGIN STA.
			ADDED ALIGNMENT NAME TO BEGIN STATIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242EC15
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
EROSION CONTROL PLAN
STATION 0+750.215 TO STATION 1+000.000

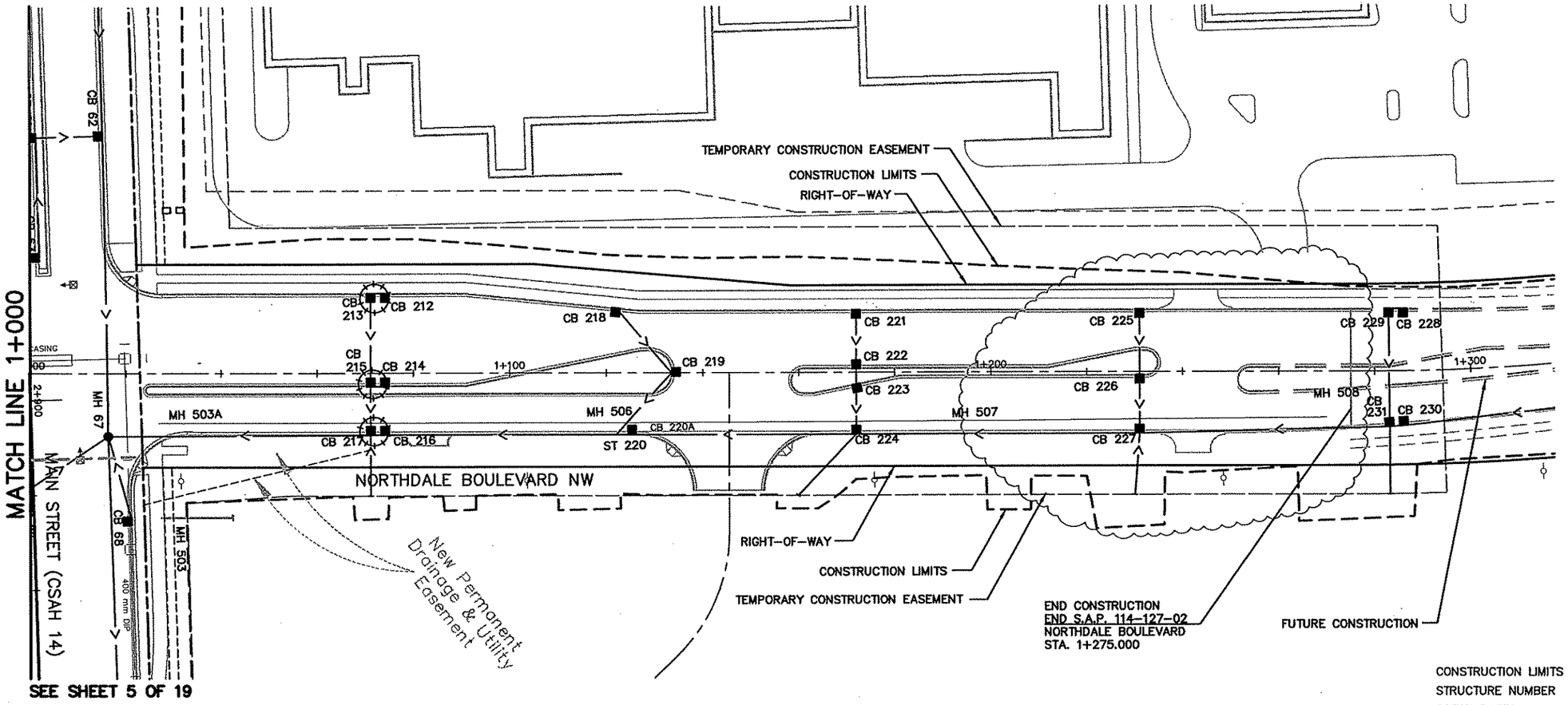
CITY PROJECT 98-20

S.P.	0212 – 40
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.A.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 020 – 20
S.A.P.	114 – 127 – 20

SHEET NO. 252 / 539

PLOT DATE: Dec 3 9 1:29pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH EC15.dwg

SEE SHEET 4 OF 19



SEE SHEET 5 OF 19

NORTH

5 0 10 20
HORIZONTAL SCALE
IN METERS

LEGEND

CONSTRUCTION LIMITS – THIS CONTRACT	
STRUCTURE NUMBER	CBMH 123
CATCH BASIN	■
APRON	
INPLACE APRON	
SEWER (STORM)	
CULVERT	
SILT FENCE	
SILT CURTAIN	xxxxxxxxxxxxxxx
HAY OR STRAW BALES – BALE CHECKS	
RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE	
SOD APRON INLET OR OUTLET	Ⓢ
SURFACE FLOW DIRECTION	

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED ALIGNMENT NAME TO END STA.
2	PMJ	9/28/00	MOD.REQ. #69: MODIFIED MEDIAN, & END CONSTRUCTION
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC16
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
EROSION CONTROL PLAN
STATION 1+000.000 TO STATION 1+288.000

CITY PROJECT 98-20

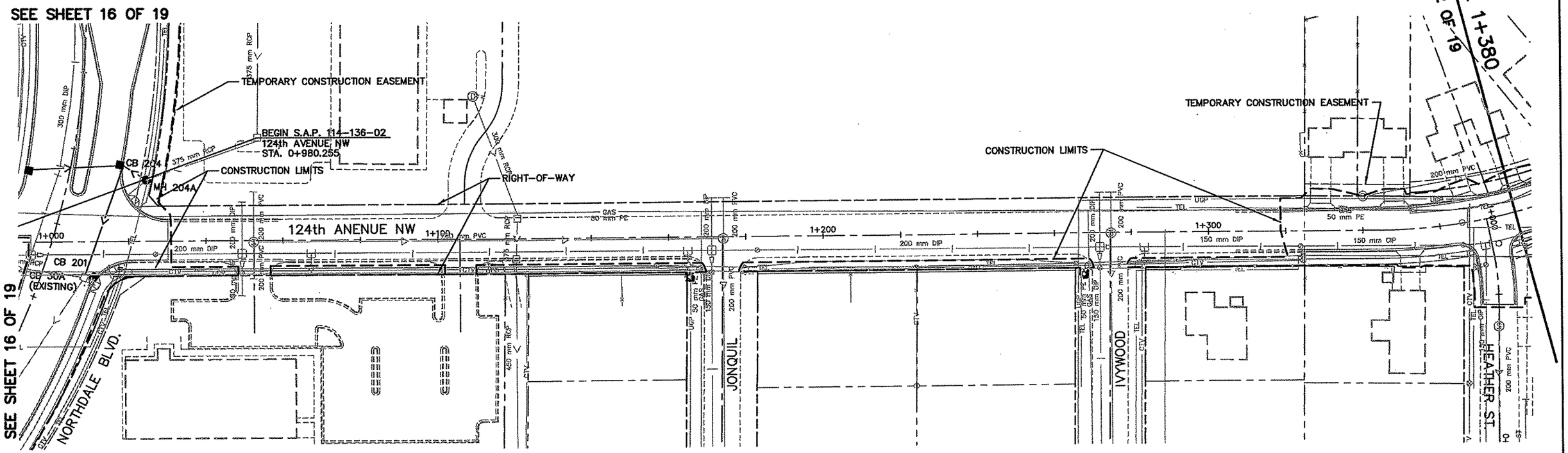
S.P.	0212 – 40
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.A.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 020 – 20
S.A.P.	114 – 127 – 20

SHEET NO. 253 / 539

PLOT DATE: Sep 21 JO 3:41pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH_EC16.dwg

DRAWINGS
2-ESUM
2-EUT
2-PUT
2CLM-W
2EROSN
PBOX
2F
2-
2MH
PLOT DATE: Dec 31, 2009 2:09pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\33889EC10.dwg

SEE SHEET 16 OF 19



LEGEND

- CONSTRUCTION LIMITS – THIS CONTRACT
- STRUCTURE NUMBER — CBMH 123
- CATCH BASIN
- APRON
- INPLACE APRON
- SEWER (STORM)
- CULVERT
- SILT FENCE
- SILT CURTAIN
- HAY OR STRAW BALES – BALE CHECKS
- RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE
- SOD APRON INLET OR OUTLET
- SURFACE FLOW DIRECTION

5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED 124th AVE. BEGIN STA.
			ADDED ALIGNMENT NAME TO BEGIN STA.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: 242EC10
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Gilb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION 124th AVE. NW/CROOKED LAKE BLVD.

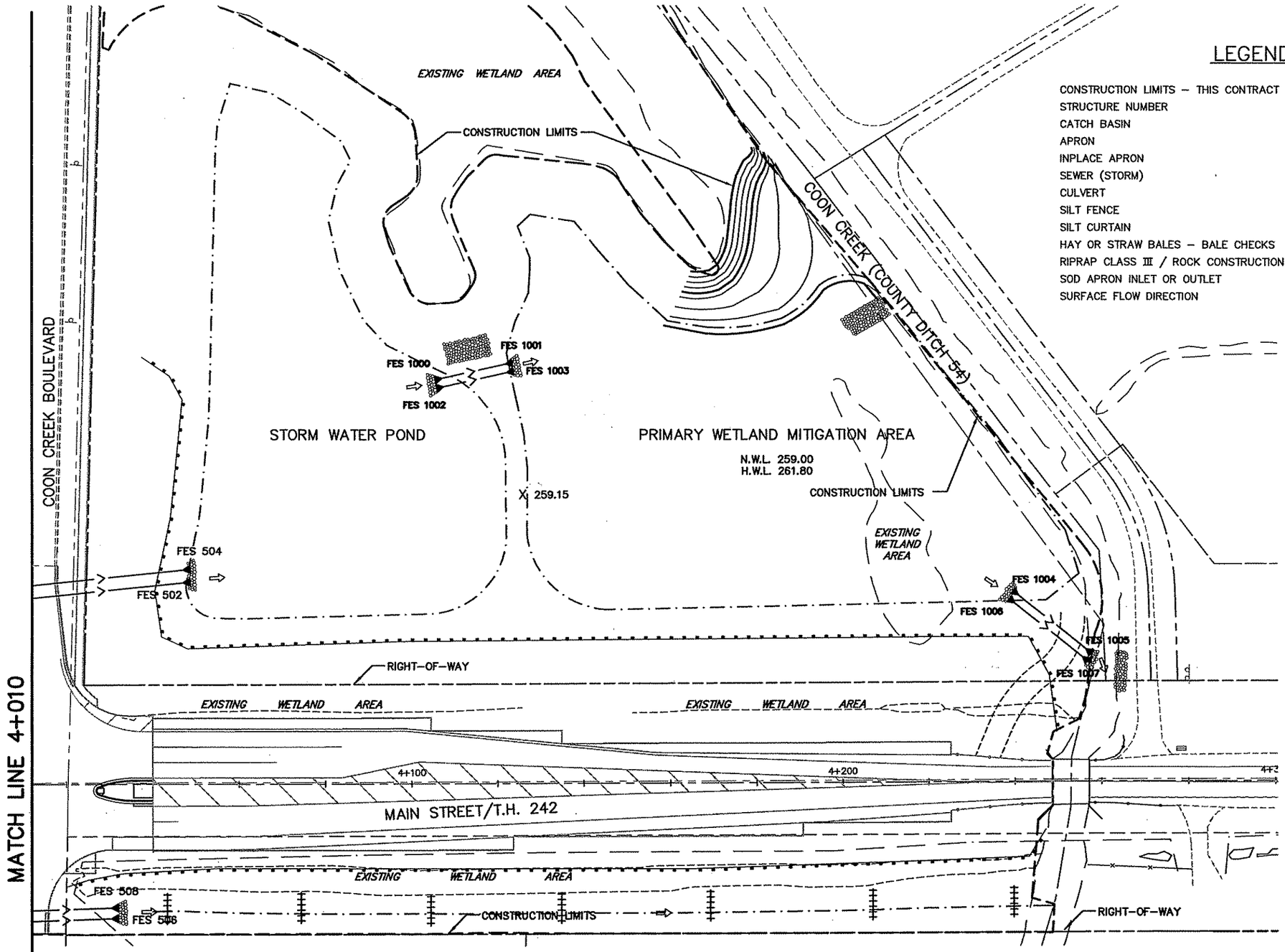
EROSION CONTROL PLAN
STA. 0+994.635 – STA. 1+380.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 254 / 539

DRAWINGS
ITPOND2
42PLN2A
42MHETO
42EROSN
42E_DRN
42-FSUM
47
AI
42E_LN
42E-CLM
42E-ALI



LEGEND

- CONSTRUCTION LIMITS – THIS CONTRACT
- STRUCTURE NUMBER — CBMH 123
- CATCH BASIN
- APRON
- INPLACE APRON
- SEWER (STORM)
- CULVERT
- SILT FENCE
- SILT CURTAIN
- HAY OR STRAW BALES – BALE CHECKS
- RIPRAP CLASS III / ROCK CONSTRUCTION ENTRANCE
- SOD APRON INLET OR OUTLET
- SURFACE FLOW DIRECTION

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

19 OF 19

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRJ | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: 242EC17
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.18.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

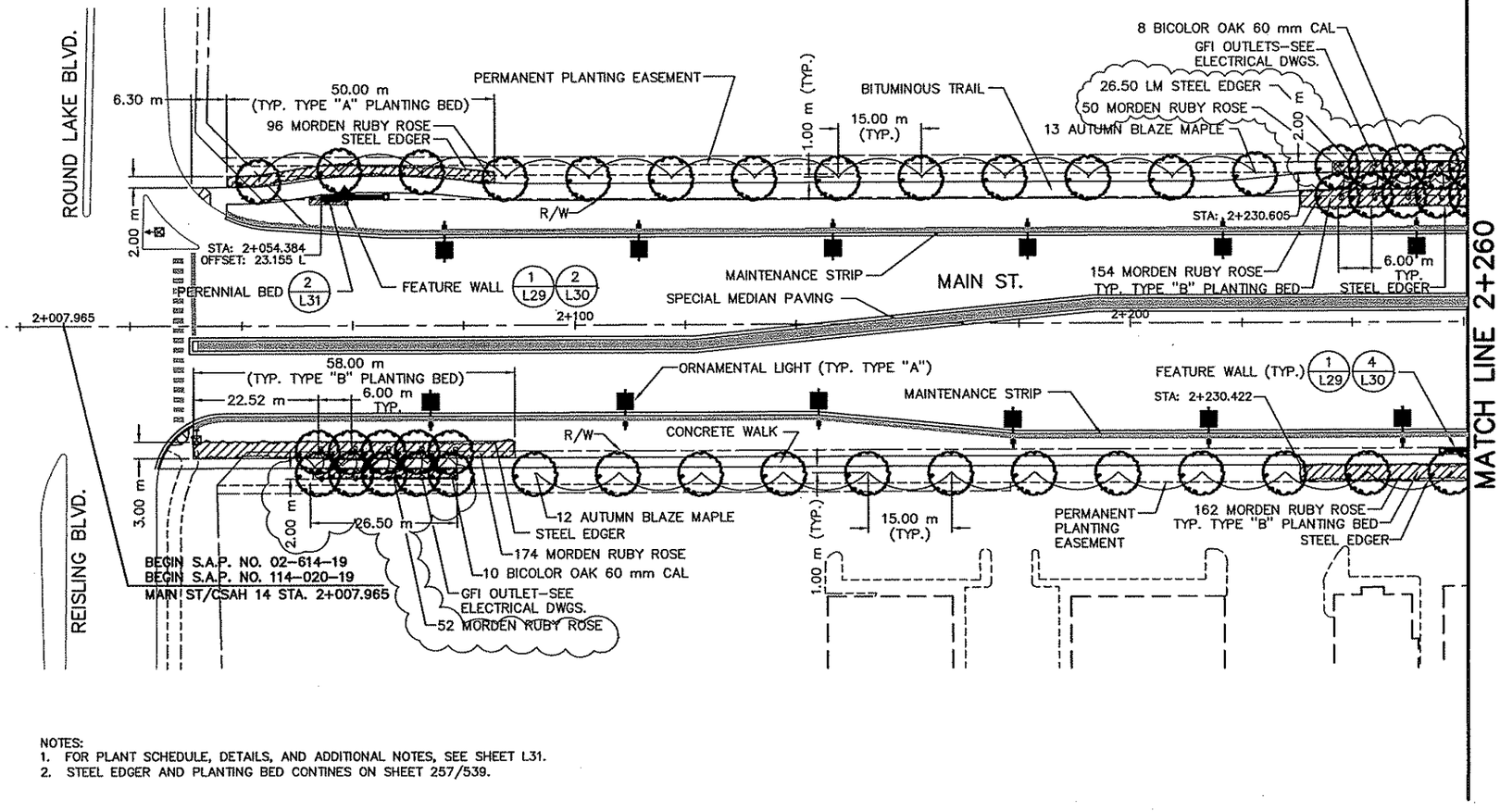
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
EROSION CONTROL PLAN
STATION 4+010.000 TO STATION 4+300.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 255 / 255

PLOT DATE: Dec 3 39 2:20pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh 2ec17.dwg



5 0 10 20
HORIZONTAL SCALE
IN METERS

NOTES:
1. FOR PLANT SCHEDULE, DETAILS, AND ADDITIONAL NOTES, SEE SHEET L31.
2. STEEL EDGER AND PLANTING BED CONTINES ON SHEET 257/539.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L01 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	11/24/99	CHANGED TH242 TO CSAH 14 AT BEGIN STA.
2	TPH	6/8/01	MOD. REQ. #98: REVISED SHRUB BEDS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242WLS01A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

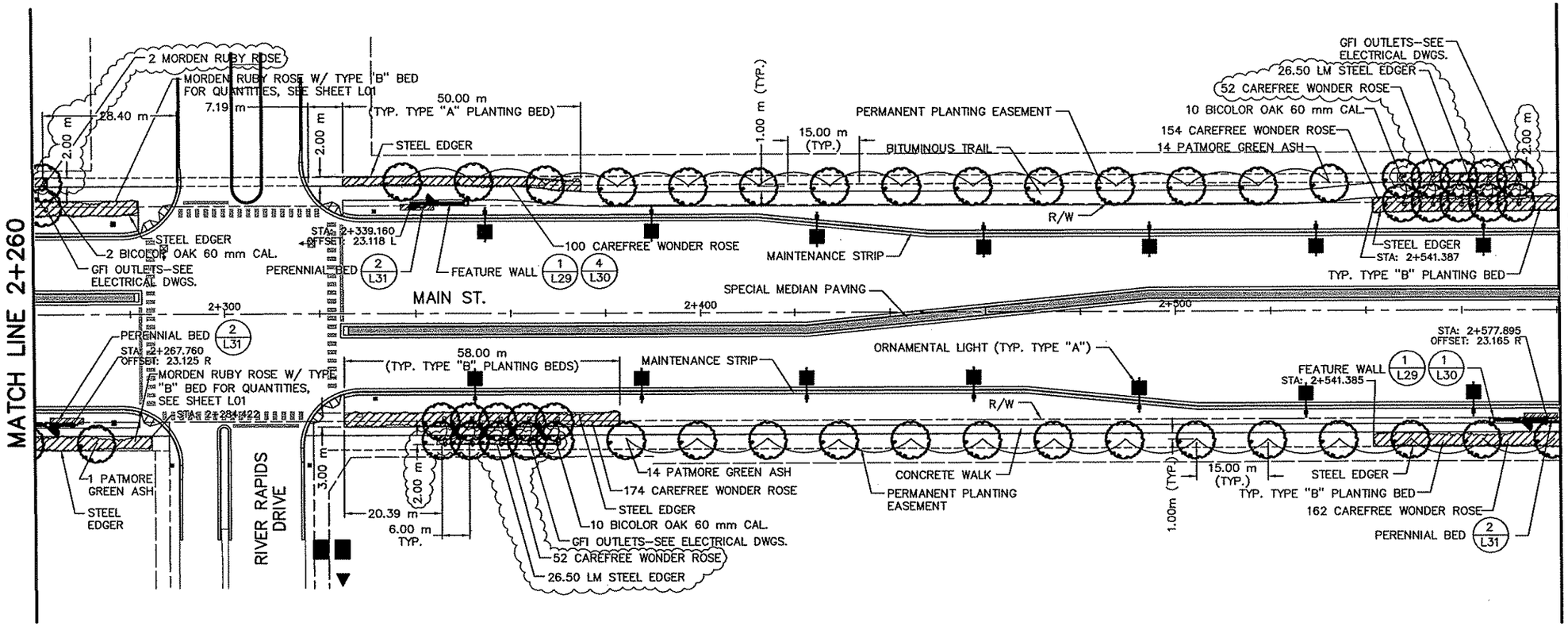
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
LANDSCAPE PLAN
STATION 2+007.965 TO STATION 2+260.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 256/539

PLOT DATE: Jan 08, 2001 9:59am DISK FILE NAME: (15.0) R:\33889\33889028\33889W\PLAN_SH1 v:\PLANNING\plans\242WLS01A.DWG



5 0 10 20
HORIZONTAL SCALE IN METERS

NOTES:
1. FOR PLANT SCHEDULE, DETAILS, AND ADDITIONAL NOTES, SEE SHEET L31.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L02 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TPH	6/8/01	MOD. REQ. #98: REVISED SHRUB BEDS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242WLS02A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

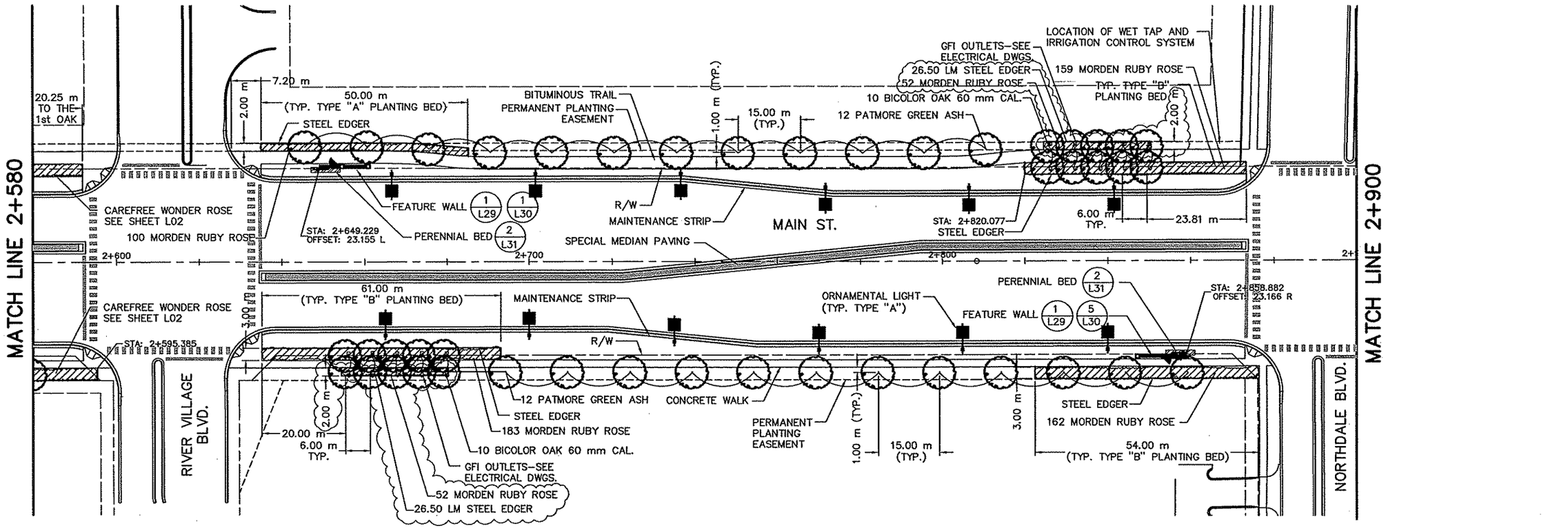
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
LANDSCAPE PLAN
STATION 2+260.00 TO STATION 2+580.00

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 257 / 539

PLOT DATE: Aug 03, 2004 12:37pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\...ANNING\plans\242WLS02A.DWG



5 0 10 20
HORIZONTAL SCALE IN METERS

NOTES:
1. FOR PLANT SCHEDULE, DETAILS, AND ADDITIONAL NOTES, SEE SHEET L31.

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L03 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TPH	6/8/01	MOD. REQ. #98: REVISED SHRUB BEDS
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242WLS03A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

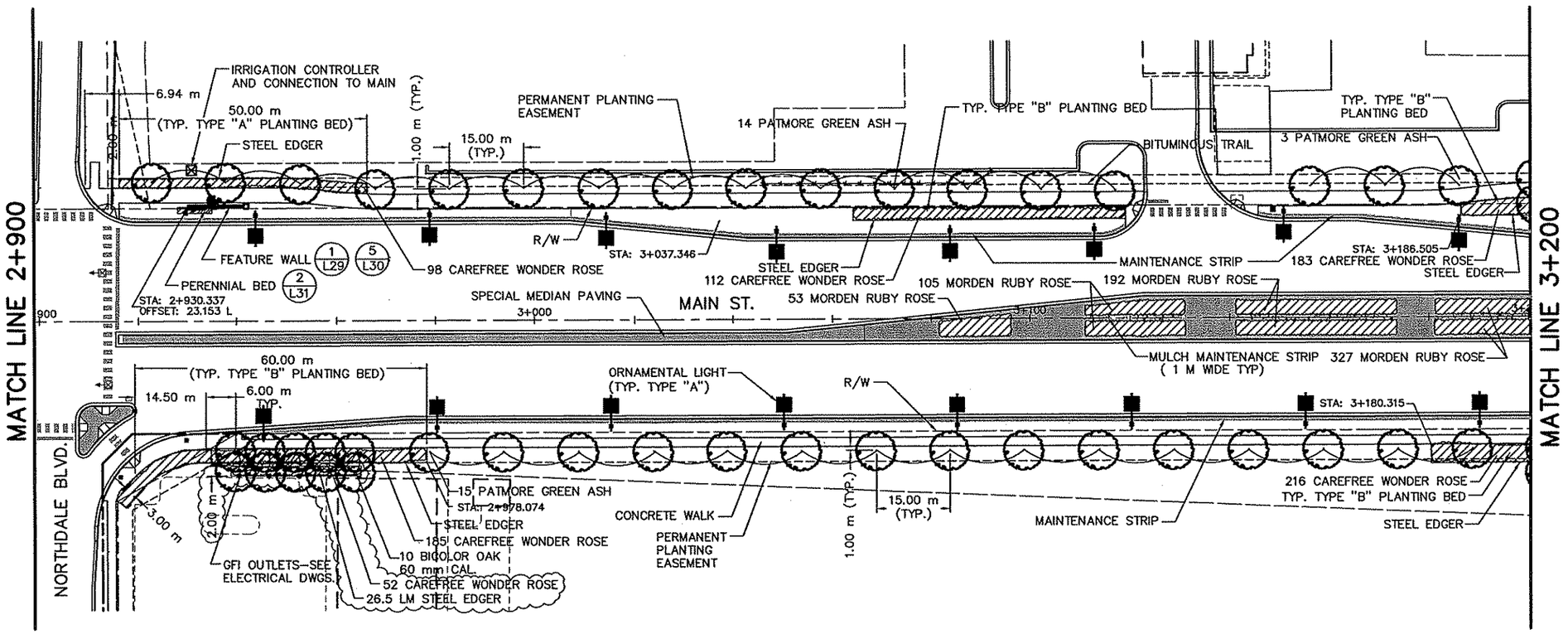
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
LANDSCAPE PLAN
STATION 2+580.000 TO STATION 2+900.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 258 / 539

PLOT DATE: Aug 03, ...04 12:41pm DISK FILE NAME: (15.06) R:\33889\33889028\33889WP\PLAN_SHT_...ANNING\plans\242WLS03A.DWG



5 0 10 20
HORIZONTAL SCALE IN METERS

NOTES:
1. FOR PLANT SCHEDULE, DETAILS, AND ADDITIONAL NOTES, SEE SHEET L31.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L04 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TPH	07/05/00	MOD. REQ. #36: REVISED MENARDS ENTRANCE
2	TPH	07/31/00	MOD. REQ. #52 ADD/DELETE SHRUBS TO MEDIAN
3	TPH	6/8/01	MOD. REQ. #98: REVISED SHRUB BEDS
4	TSR	2/2/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF/M.PAUN
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242WLS04A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-9700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. SECTION 326.02 TO 326.15.
DATE: 11/5/99 MINN. REG. NO. 24900

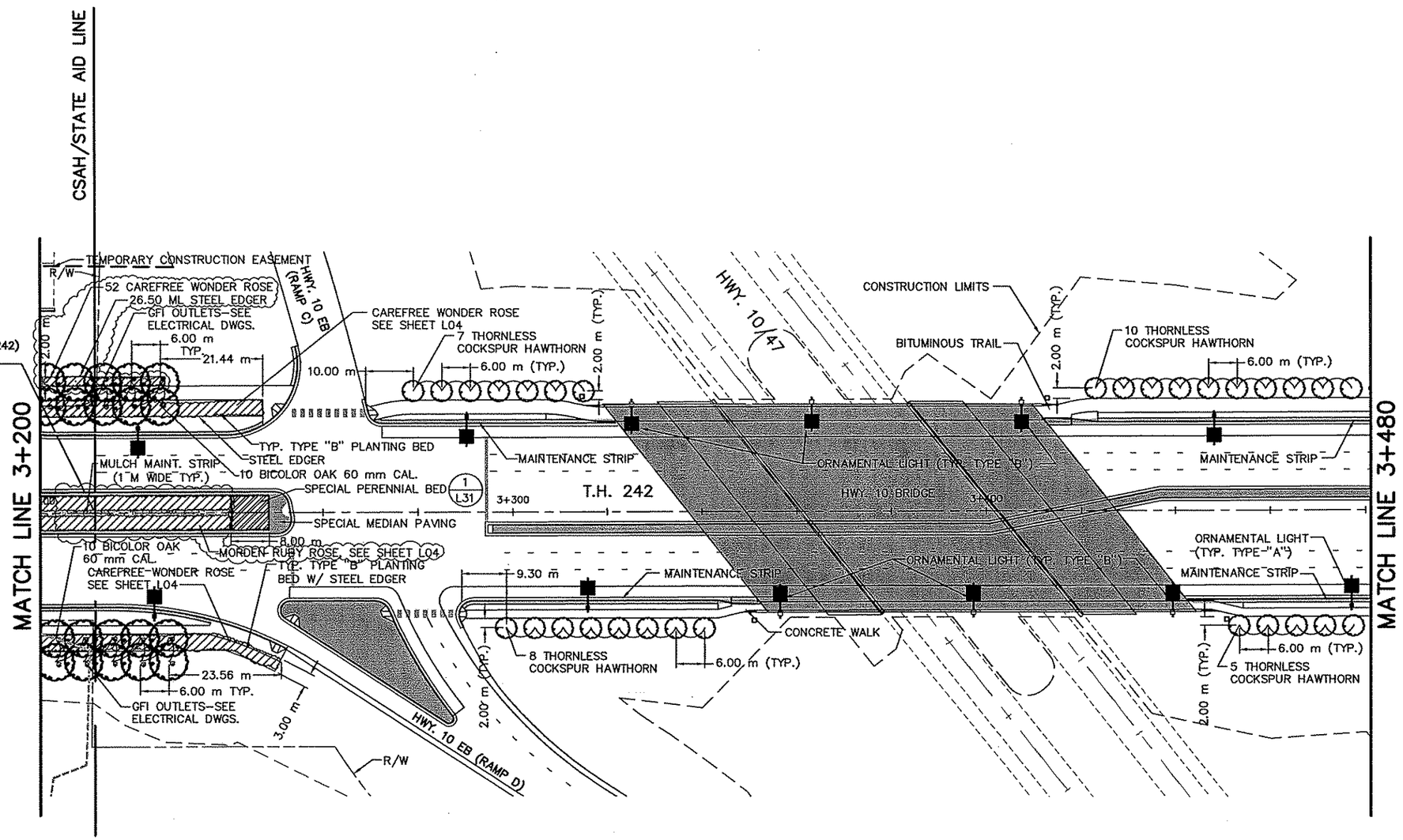
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
LANDSCAPE PLAN
STATIOJN 2+900.000 TO STATION 3+200.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 259 / 539

PLOT DATE: Jun 13, ...01 9:11am DISK FILE NAME: (15.0) R:\33889\33889028\33889W\PLAN_SHT\...NING\plans\242WLS04A.DWG



NORTH

5 0 10 20

HORIZONTAL SCALE IN METERS

NOTES:
1. FOR PLANT SCHEDULE, DETAILS, AND ADDITIONAL NOTES, SEE SHEET L31.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L05 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED MAIN STREET SAP & SP No.s ADDED TH242 TO SHEET TITLE
2	TPH	7/05/00	MOD. REQ. #38: REVISED MENARDS ENTRANCE
3	THP	7/31/00	MOD. REQ. #52: ADD/DELETE SHRUBS TO MEDIAN
4	TPH	6/8/01	MOD. REQ. #98: REVISED SHRUB BEDS
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF/M.PAUN
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242ELS01A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
LANDSCAPE PLAN
STATION 3+200.000 TO STATION 3+480.000

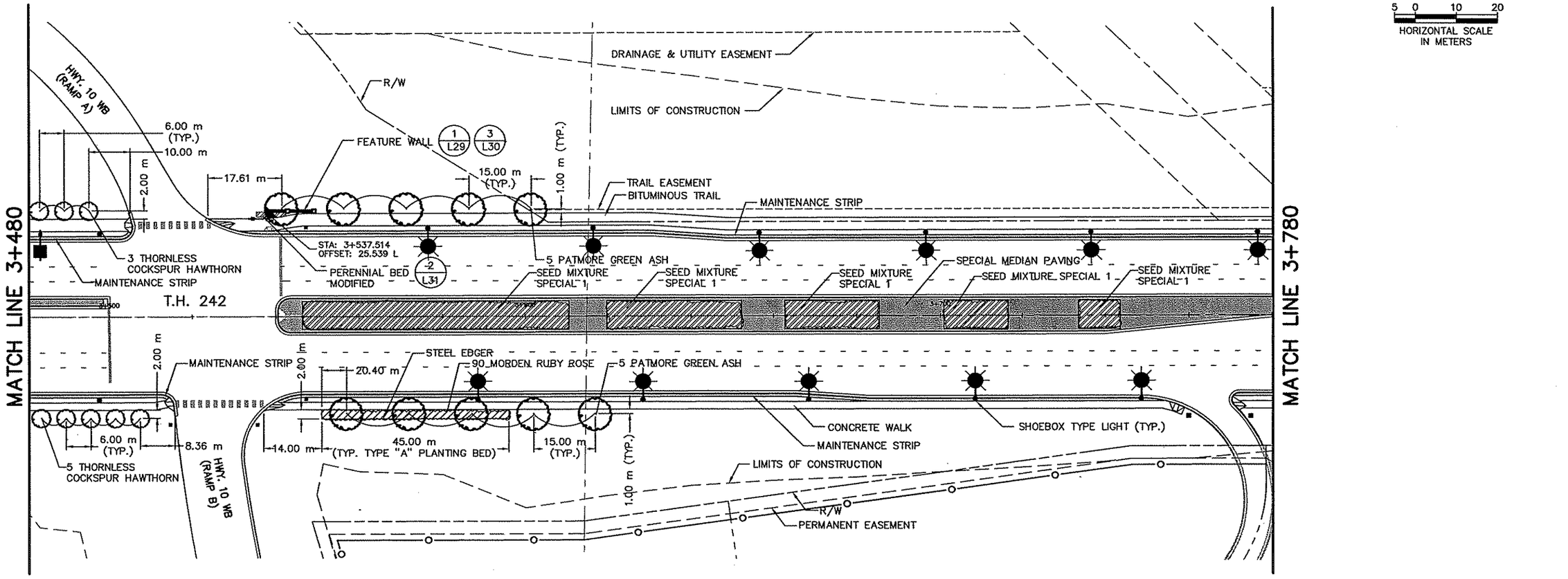
CITY PROJECT 98-20

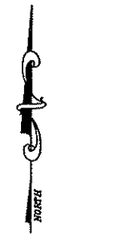
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 260 / 539

PLOT DATE: Jun 15 J1 9:09am DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SHT...ning\242ELS01A.DWG

42-ESUM
APBOX
_STRIPE
AV-HTCH
42W-MLS
42W-LGT
42MHVEG





5 0 10 20
HORIZONTAL SCALE IN METERS

NOTES:
1. FOR PLANT SCHEDULE, DETAILS, AND ADDITIONAL NOTES, SEE SHEET L31.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L06 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED CSAH 14 TO TH 242 IN SHEET TITLE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242ELS02A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

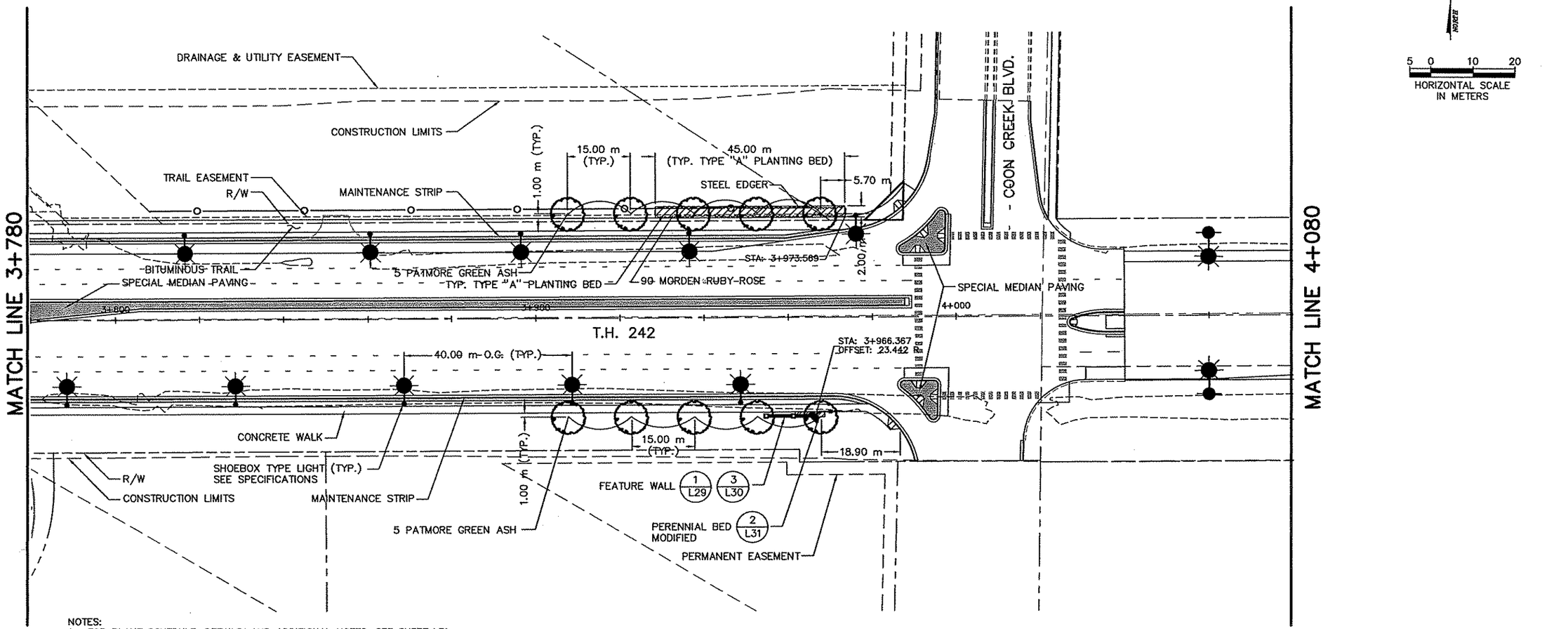
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
LANDSCAPE PLAN
STATION 3+480.000 TO STATION 3+780.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 261 / 539

PLOT DATE: Jan 06, ...00 3:05pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH...



NOTES:
1. FOR PLANT SCHEDULE, DETAILS, AND ADDITIONAL NOTES, SEE SHEET L31.

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L07 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGE CSAH 14 TO TH 242 IN SHEET TITLE
			DELETED D/W AT 3+852.540
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242ELS03A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
LANDSCAPE PLAN
STATION 3+780.000 TO STATION 4+080.000

CITY PROJECT 98-20

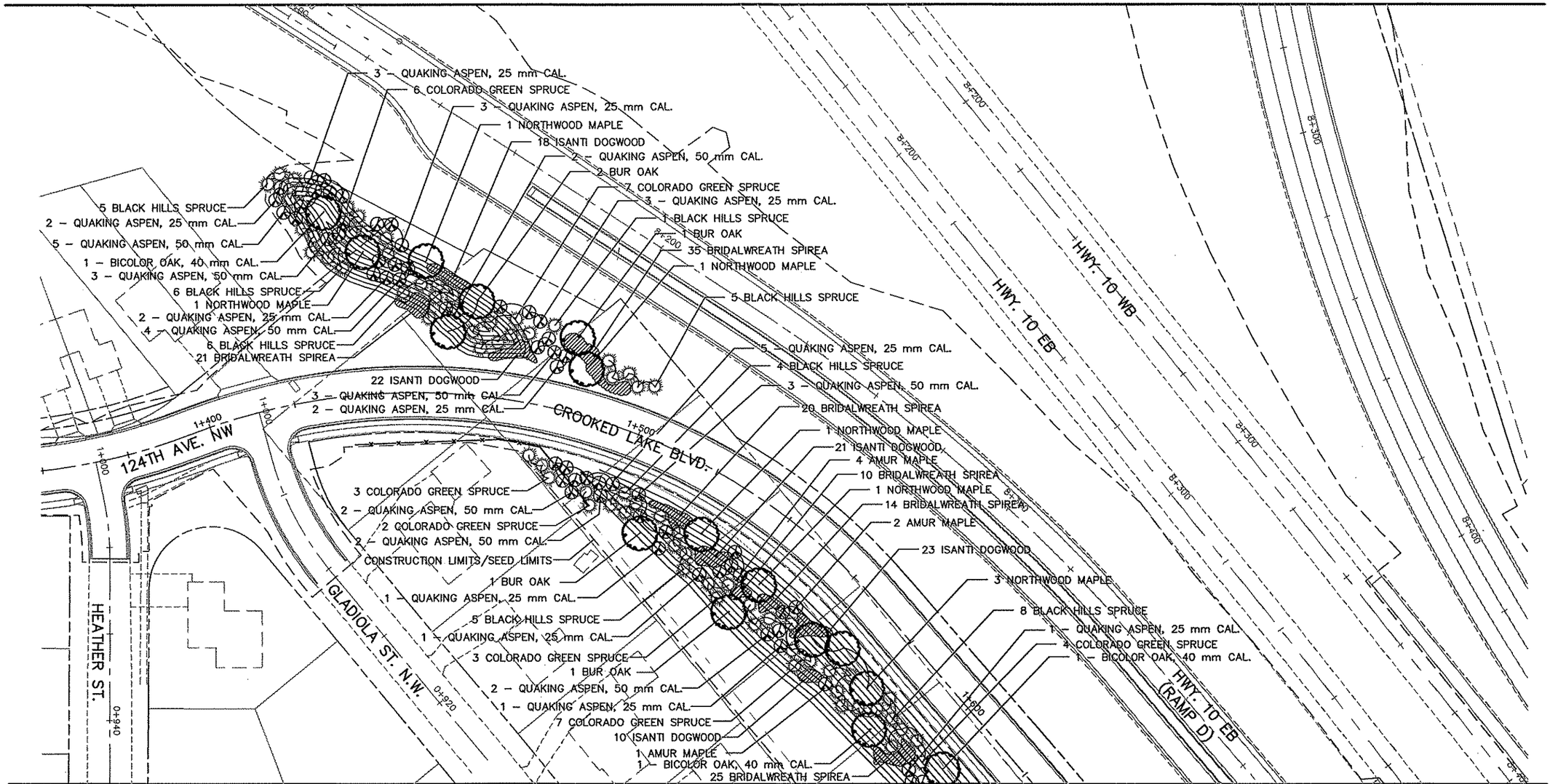
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 262 / 539

PLOT DATE: Jan 08, 00 2:59pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\...rning\242ELS03A.DWG

12E-CLM
24-BERM
APBOX
12CLM-W
12E-PLN
12E-ALT
12
12 W
RKDLK
12MHETO
12-ESUM

MATCH LINE W/ SHEET L05



MATCH LINE W/ SHEET L09

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

NOTES:
1. FOR PLANT SCHEDULE, DETAILS, AND ADDITIONAL NOTES, SEE SHEET L31.
2. ALL AREAS WITHIN CONSTRUCTION LIMITS, NOT OTHERWISE DESIGNATED, SHALL BE SEEDED W/ MNDOT MIX 50A. SEE RESTORATION PLANS.
3. SOD AREAS BETWEEN B.O.C. AND SIDEWALK AND A 1 m WIDE STRIP ALONG OUTSIDE OF SIDEWALK.
4. AREAS WITHOUT SIDEWALK, SOD A 1 m WIDE STRIP FROM B.O.C.
5. THIS PLANTING AREA RECEIVES NO IRRIGATION.
6. INSTALL SHREDDED HARDWOOD MULCH WITHOUT EDGING WITHIN ALL SHRUB MASSINGS AS PER SPEC.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L08 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: CrkdLk01A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./
CROOKED LK. BLVD. (C.S.A.H. 18)
LANDSCAPE PLAN
STATION 1+360.000 TO STATION 1+620.000

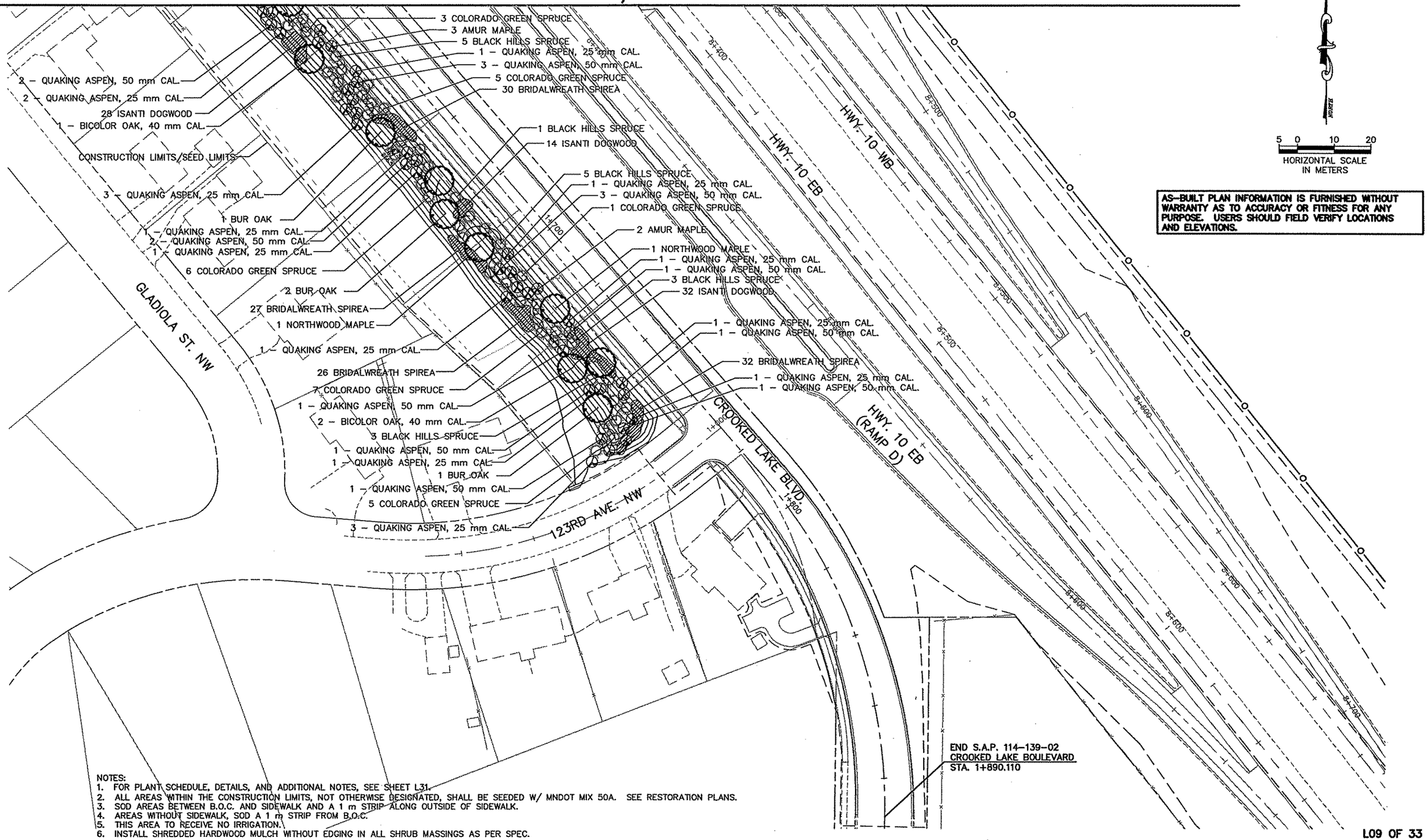
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 263 / 539

PLOT DATE: Jan 07, 2000 3:32pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\...ANNING\plans\CrkdLk01A.dwg

MATCH LINE W/ SHEET L08



AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:
1. FOR PLANT SCHEDULE, DETAILS, AND ADDITIONAL NOTES, SEE SHEET L31.
2. ALL AREAS WITHIN THE CONSTRUCTION LIMITS, NOT OTHERWISE DESIGNATED, SHALL BE SEEDED W/ MNDOT MIX 50A. SEE RESTORATION PLANS.
3. SOD AREAS BETWEEN B.O.C. AND SIDEWALK AND A 1 m STRIP ALONG OUTSIDE OF SIDEWALK.
4. AREAS WITHOUT SIDEWALK, SOD A 1 m STRIP FROM B.O.C.
5. THIS AREA TO RECEIVE NO IRRIGATION.
6. INSTALL SHREDDED HARDWOOD MULCH WITHOUT EDGING IN ALL SHRUB MASSINGS AS PER SPEC.

L09 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADED CROOKED LAKE BLVD. SAP No. & END STA.
			ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: CrkdLk02A
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./
CROOKED LK. BLVD. (C.S.A.H. 18)
LANDSCAPE PLAN
STATION 1+620.000 TO STATION 1+760.000

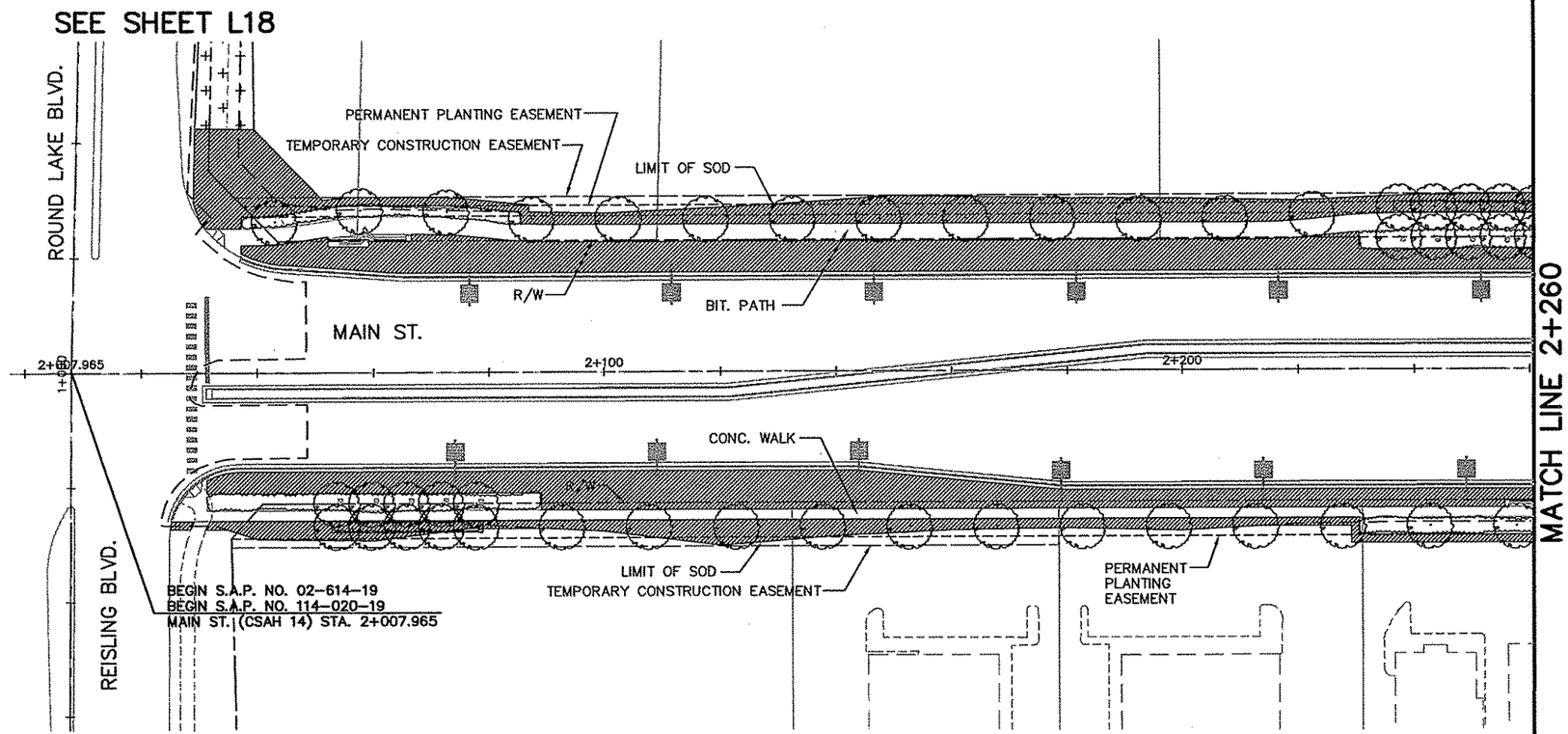
CITY PROJECT 98–20

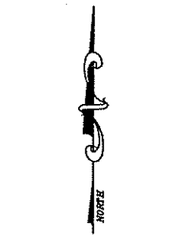
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 264 / 539

PLOT DATE: Jan 0_, _000 2:56pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_...ANNING\plans\CrkdLk02A.dwg

-2CLM-W
\PBOX
-2-SEED
_STRIPE
-2W-MLS
-2W-
-2
-2-ESUM
-2MHVEG
-2MHETO
-2-EUT





LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED TH 242 TO CSAH 14 AT BEGIN STA.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242WLS01B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
RESTORATION PLAN
STATION 2+007.965 TO STATION 2+260.000

CITY PROJECT 98-20

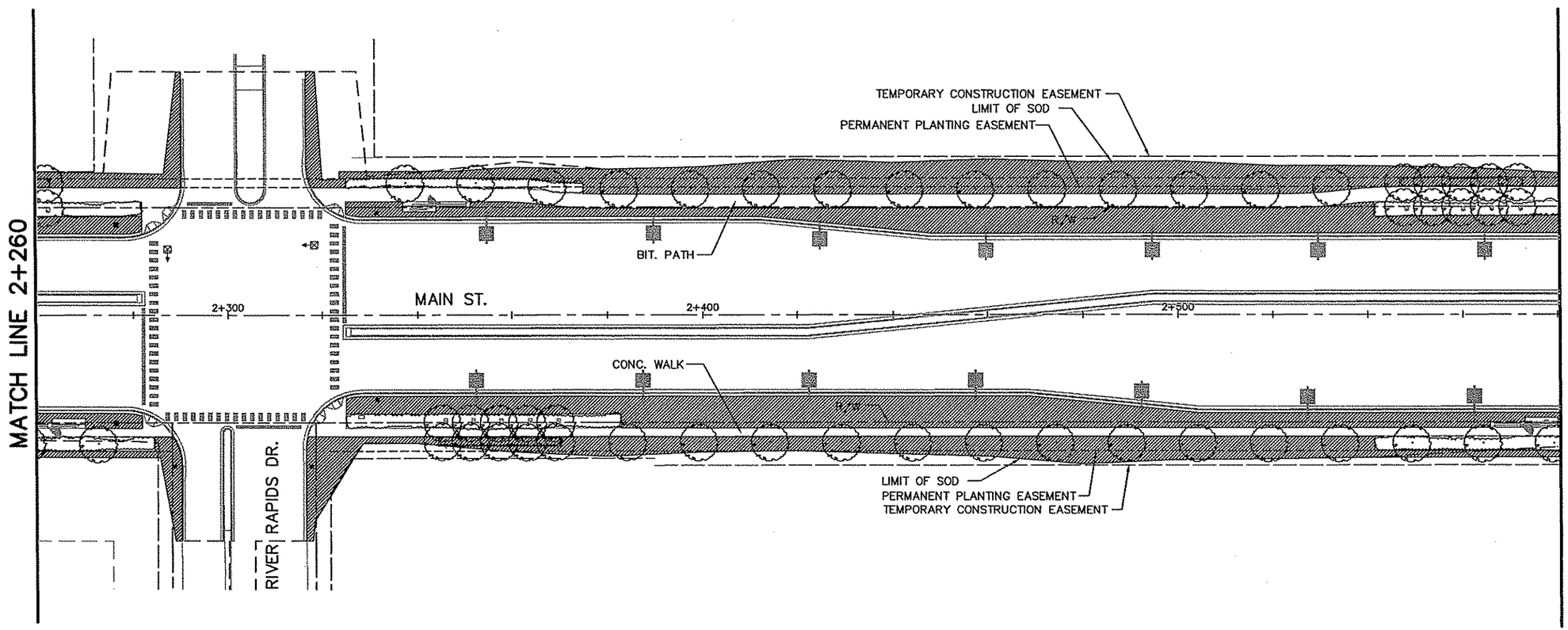
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 265 / 539

PLOT DATE: Aug 03, ...04 12:39pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT...NNING\plans\242WLS01B.DWG

2CLM-W
.PBOX
2-SEED
_STRIPE
2W-MLS
2W-'GT
2
2
2-ALTW
2MHVEG
2MHETO
2-EUT

PLOT DATE: Aug 0_, 2004 12:40pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH_ _ LANNING\plans\242WLS02B.DWG



5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND:
- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

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L11 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242WLS02B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
RESTORATION PLAN
STATION 2+260.000 TO STATION 2+580.000

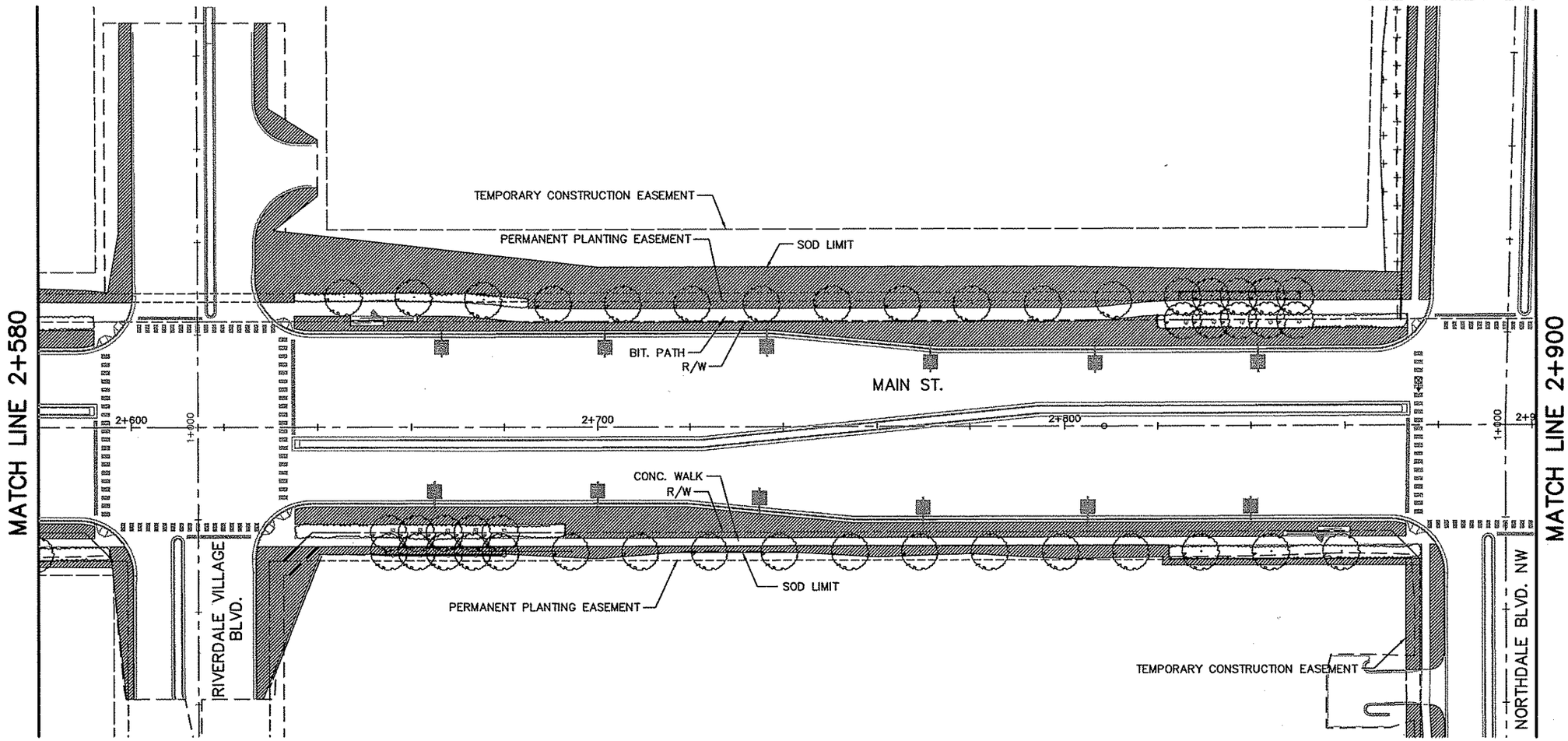
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 266 / 539

2CLM-W
PBOX
2-SEED
_STRIPE
2W-MLS
2W-LGT
2P
2
2
2MHETO
2-EUT

SEE SHEET L19



SEE SHEET L23

5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND:
- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242WLS03B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
RESTORATION PLAN
STATION 3+580.000 TO STATION 3+900.000

CITY PROJECT 98-20

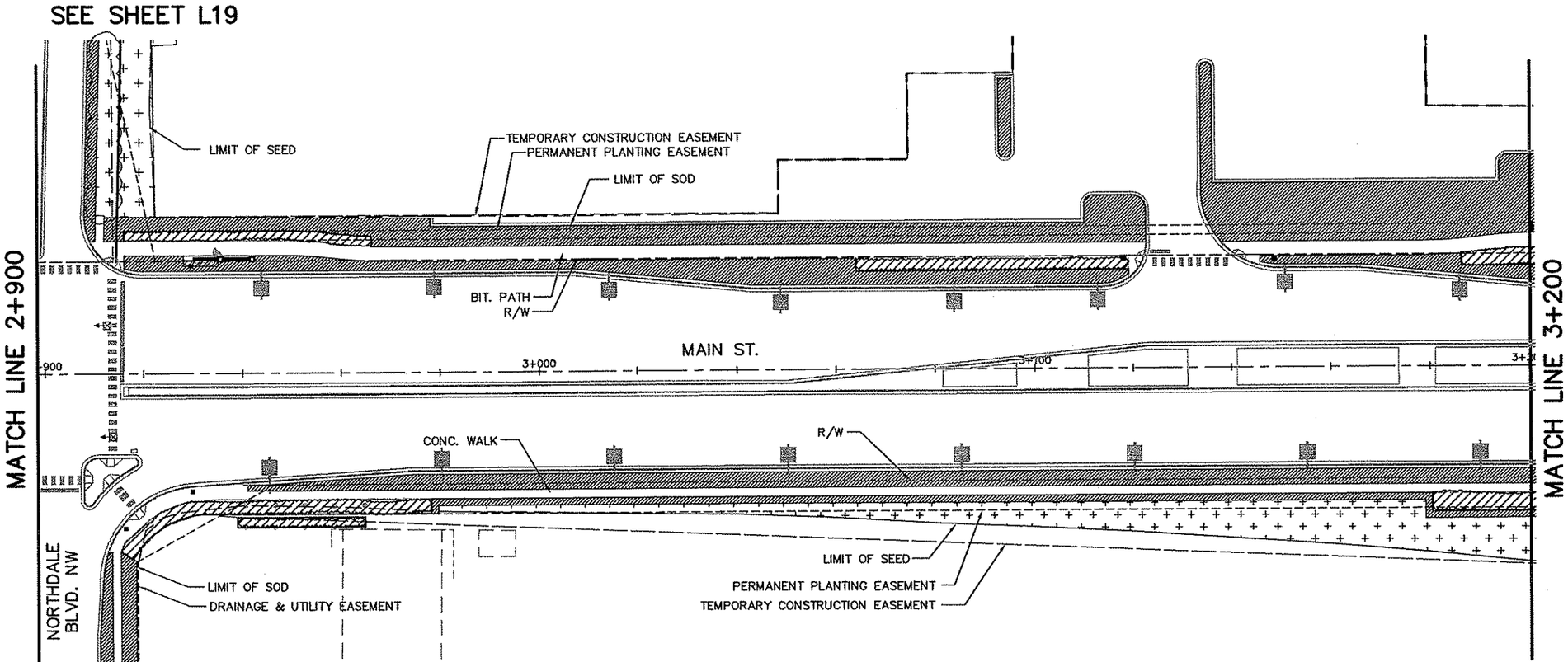
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 267 / 539

PLOT DATE: Aug [illegible].004 12:41pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S[illegible]ANNING\plans\242WLS03B.DWG

2CLM-W
PBOX
2-SEED
,STRIPE
2W-MLS
2W
2P
2-
2-ESUM
2MHVEG
2MHETO
2-EUT

SEE SHEET L19



SEE SHEET L23

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND:
- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DEL. SODDING OUTSIDE OF CONSTR. LIMIT SE QUADRANT MAIN/NDALE.
2	MJF	6/01/00	MOD. REQ. #27: MOD. SOD LIMITS/S.E. QUAD. N.DALE
3	TPH	7/5/00	MOD. REQ. #36: REVISED MENARDS ENTRANCE
4	JJL	8/09/00	MOD.REQ.#56:REM. WALK NDALE 1+032.8-1+288.0, RT.
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF/M.PAUN
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242WLS04B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DEM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. SECTION 326.02 TO 326.16.

DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
RESTORATION PLAN
STATION 2+900.000 TO STATION 3+200.000

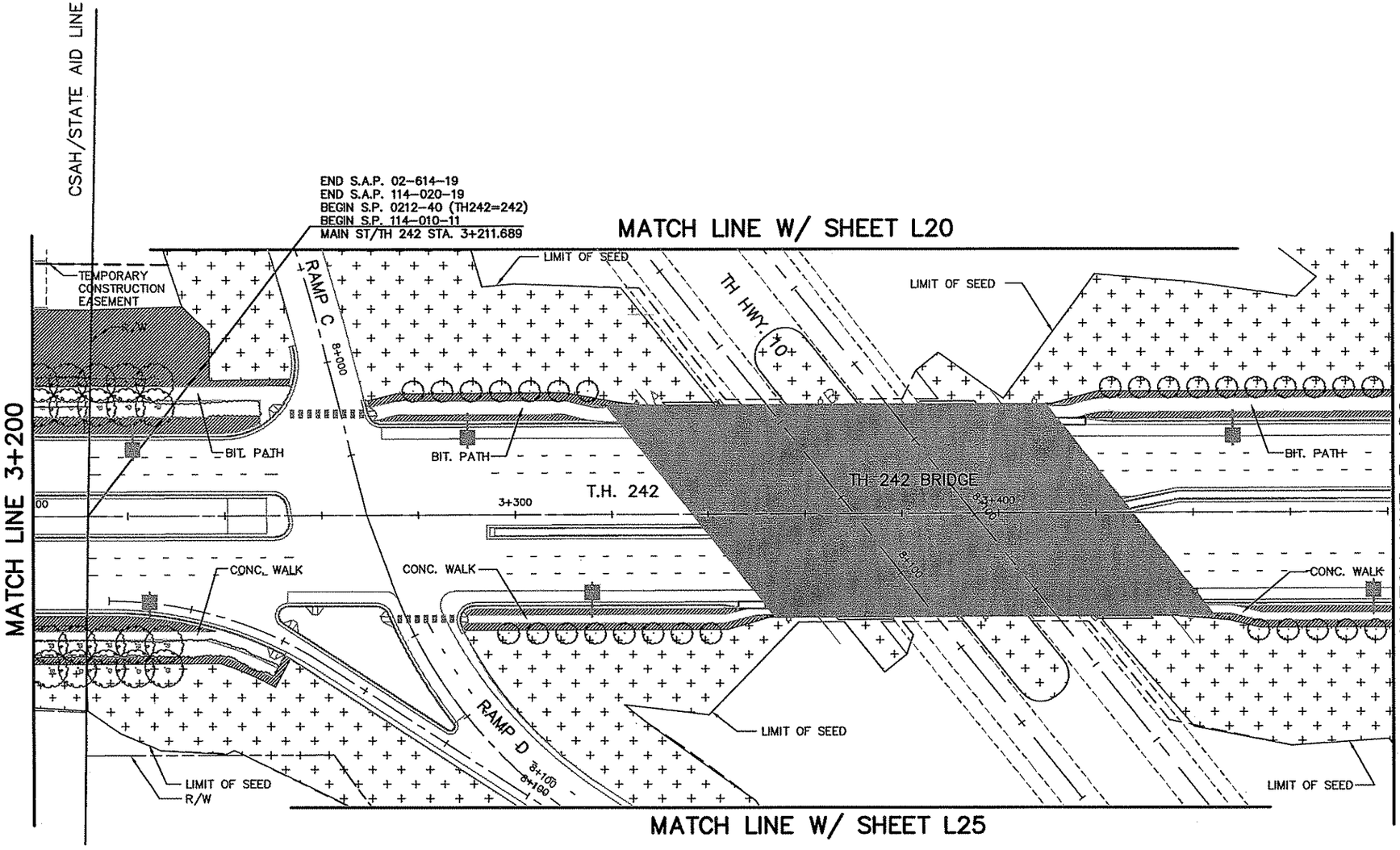
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 268 / 539

PLOT DATE: Aug 08, 00 11:56am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT__ANNING\plans\242WLS04B.DWG

2MHETO
PBOX
2-SEED
STRIPE
2W-MLS
2W-
2
2L
2E-CLM
2E-ALI
2PLNW
2-ESUM
2MHVEG
2-EUT



5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L14 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED SAP TO SP, ADDED TH242 TO SHEET TITLE
2	TPH	7/5/00	MOD. REQ. #38: REVISED MENARDS ENTRANCE
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF/M.PAUN
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242ELS01B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
RESTORATION PLAN
STATION 3+200.000 TO STATION 3+480.000

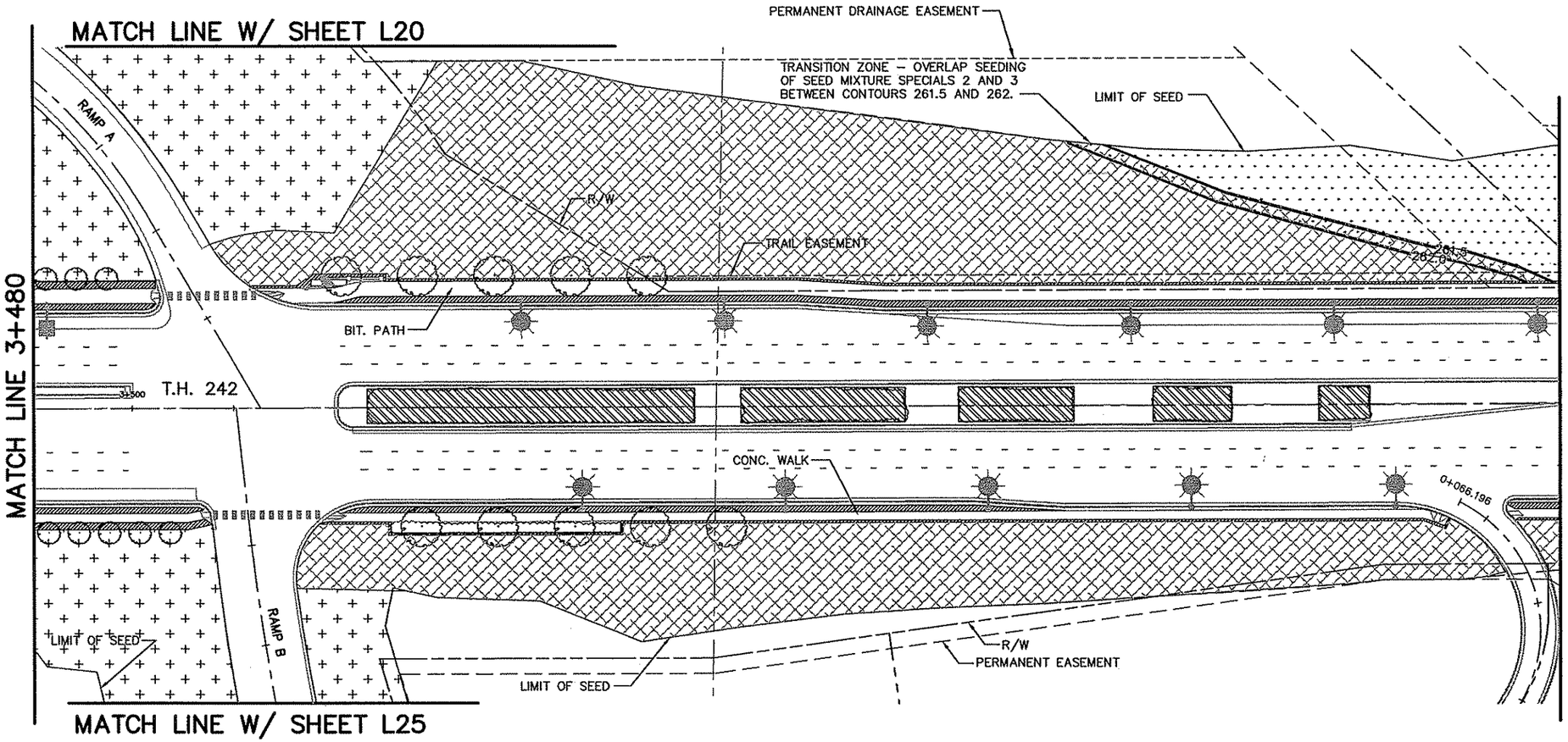
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 269 / 539

PLOT DATE: Jun 28, 2000 2:48pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT_...ning\242ELS01B.DWG

-2W-LGT
-2-ESUM
\PBOX
-2-SEED
_STRIPE
-2W S
-2
-2L M
I2E-ALI
I2MHETO



NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS

LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L15 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED CSAH 14 TO TH 242 IN SHEET TITLE
			CHANGED NOTE RE: DRAINAGE & UTIL. EASEMENT TO PERMANENT DRAINAGE EASEMENT
			DELETED SEEDING OUTSIDE OF CONSTRUCTION LIMITS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242ELS02B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
RESTORATION PLAN
STATION 3+480.000 TO STATION 3+780.000

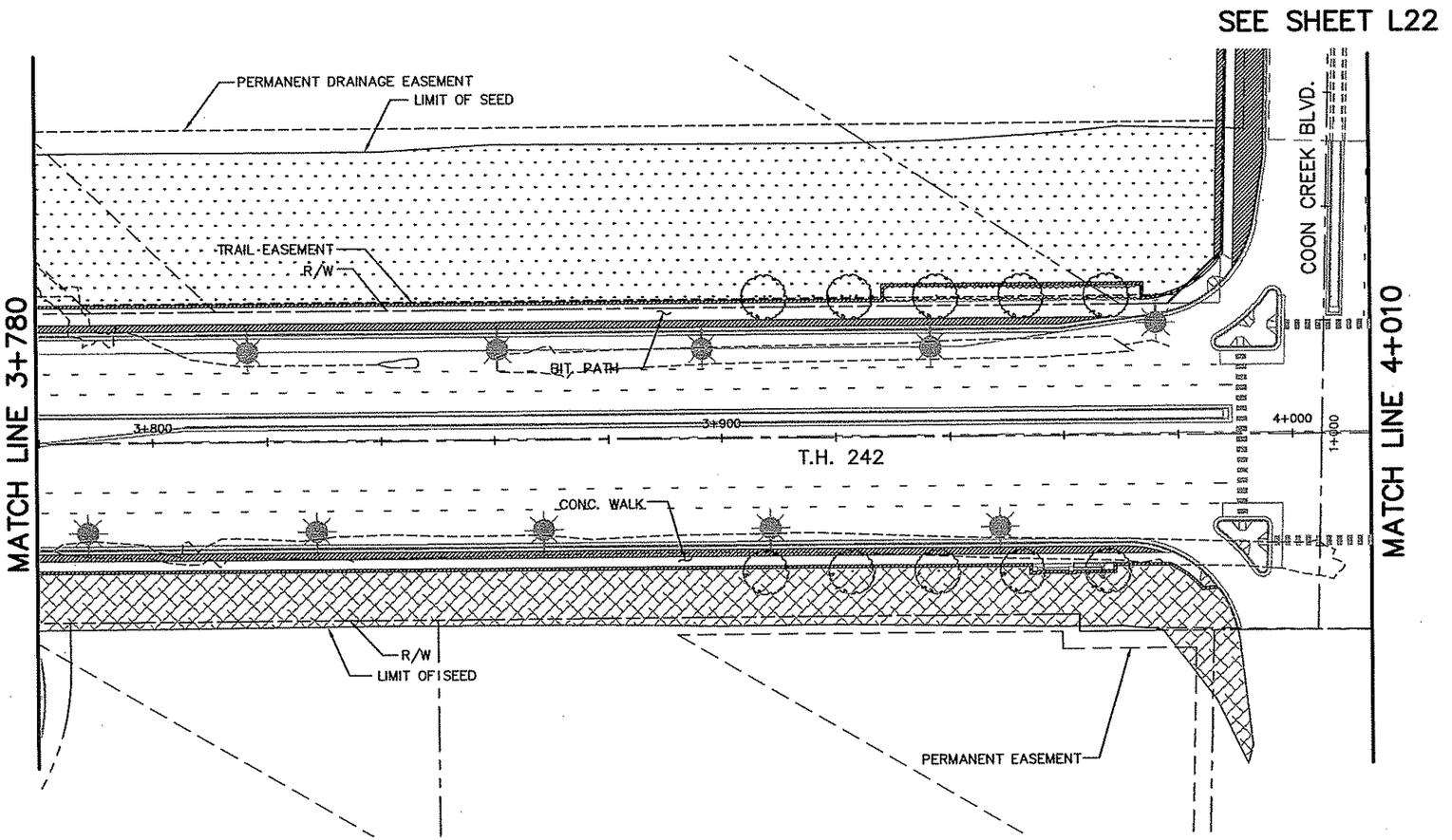
CITY PROJECT 98-20

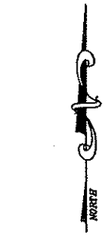
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 270 / 539

PLOT DATE: Jan 13, 2... 1:16pm DISK FILE NAME: (14.01) R:\33689\3388028\33889E\PLAN-SHT\p...ing\242ELS02B.DWG

2-ESUM
2MHETO
PBOX
2-SEED
STRIPE
2
2
2E-PLN
2E-CLM
2E-ALT





5 0 10 20
HORIZONTAL SCALE
IN METERS

LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L16 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED CSAH 14 TO TH 242 IN SHEET TITLE
			DELETED D/W AT 3+852.54Q. CHANGED NOTE RE: DRAIN.
			& UTIL. EASEMENT TO PERMANENT DRAINAGE EASEMENT
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242ELS03B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
RESTORATION PLAN
STATION 3+780.000 TO STATION 4+010.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 271 / 539

PLOT DATE: Jan 13, 2000 1:21pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\...ing\242ELS03B.DWG

osp-pond
242e_drn
42e-seed
242-ESUM
242PLN2A
242MUETO
24[illegible]T
24[illegible].N
SAr dOX
242-SEED
E_STRIPE
42W-MLS
42W-LGT
242E-PLN
242E-ALI

MATCH LINE TO SHEET 272A

WETLAND BOUNDARY

LIMIT OF SOD

LIMIT OF SEED

COON CREEK BLVD.

COON CREEK (COUNTY DITCH 54)

STORM WATER POND
N.W.L. 259.15
H.W.L. 261.82
X 255.00

PRIMARY WETLAND MITIGATION POND
N.W.L. 259.10
H.W.L. 261.82
X 260.00

X 261.10

MATCH LINE 4+010

4+100

4+200

T.H. 242

LIMIT OF SEED

LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE:
1. FOR EAST SIDE OF COON CREEK BLVD. BETWEEN STA. PTS. 1+000 AND 1+300 ONLY – AREA SHALL BE SODDED BETWEEN B.O.C. AND SIDEWALK. OUTSIDE OF SIDEWALK SHALL HAVE .5 m STRIP OF SOD BEFORE SEED BEGINS.
2. LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION
3. SEED MIXTURE SPECIAL 3 TO START AT ELEV. 258 AND CONTINUE TO ELEV. 261. SEED MIXTURE SPECIAL 2 SHALL BE INSTALLED AT ELEVATIONS ABOVE 261 TO LIMIT OF SEED BOUNDARY.

5 0 10 20
HORIZONTAL SCALE IN METERS

END S.P. 0212–40 (TH242=242)
END S.P. 114–010–11
MAIN STREET/TH 242
STA. 4+248.576

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L17 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED MAIN STREET END STA., CHANGED SAP TO SP
			CHANGED CSAH 14 TO TH 242 IN SHEET TITLE
2	MJF	5/9/00	MOD. REQ. #19: MODIFIED SEEDING AREA
3	JJL	07/17/01	MOD. REQ. #74: MODIFIED SEEDING AREA
4	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242ELS04B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1379 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
RESTORATION PLAN
STATION 4+010.000 TO STATION 4+300.000

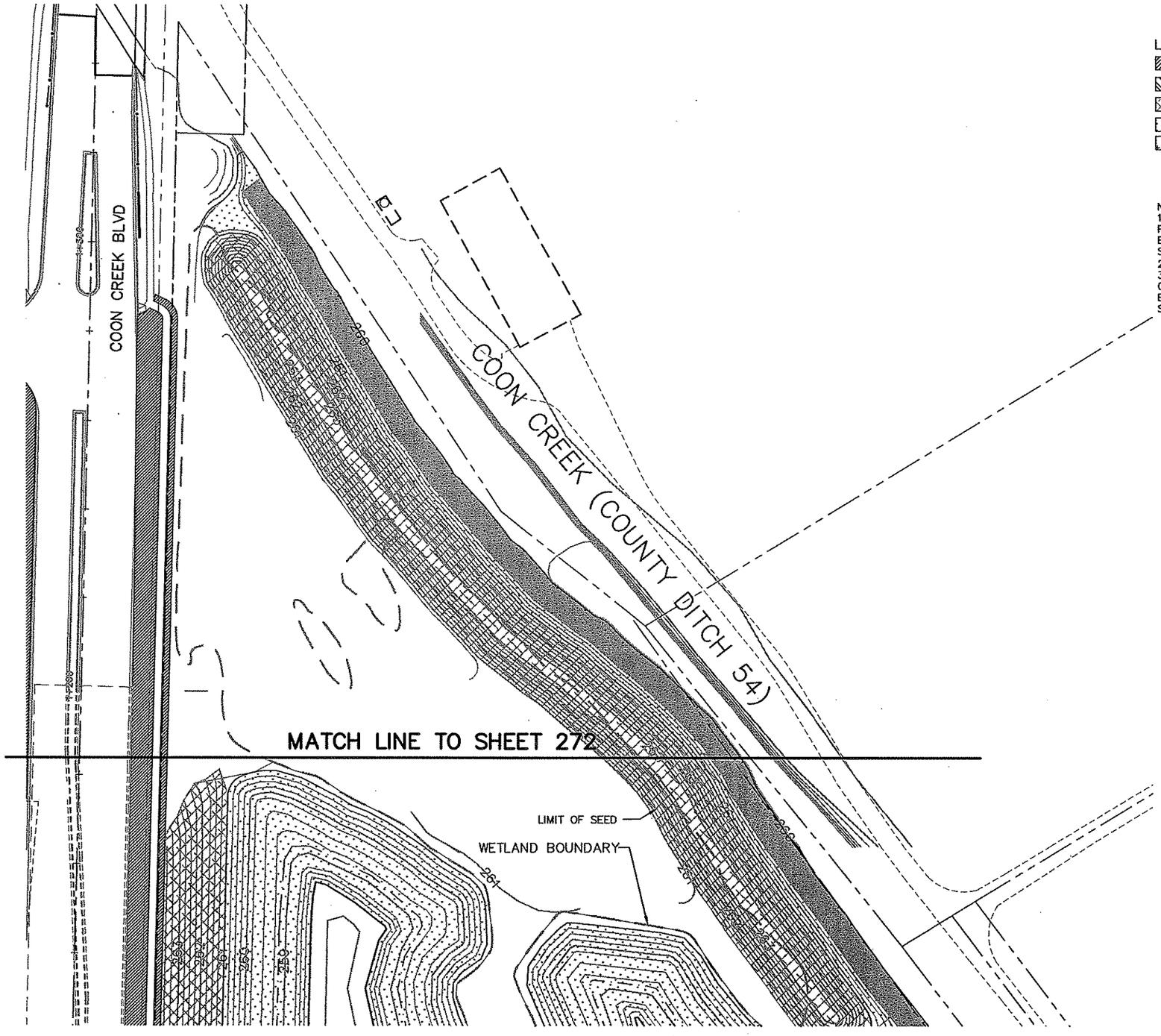
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 272 / 539

PLOT DATE: Jul 16, 1:06pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN–SHT\ling\242ELS04B.DWG

osp–pond
42e–seed
242–ESUM
242PLN2A
242MHETO
242–WET
24' 'N
JX
242–SEED
_STRIPE
42W–MLS
42W–LGT
242E–PLN
242E–ALI



LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE:
1. FOR EAST SIDE OF COON CREEK BLVD. BETWEEN STA. PTS. 1+000 AND 1+300 ONLY – AREA SHALL BE SODDED BETWEEN B.O.C. AND SIDEWALK. OUTSIDE OF SIDEWALK SHALL HAVE .5 m STRIP OF SOD BEFORE SEED BEGINS.
2. LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION
3. SEED MIXTURE SPECIAL 3 TO START AT ELEV. 258 AND CONTINUE TO ELEV. 261. SEED MIXTURE SPECIAL 2 SHALL BE INSTALLED AT ELEVATIONS ABOVE 261 TO LIMIT OF SEED BOUNDARY.

5 0 10 20
HORIZONTAL SCALE IN METERS

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L17A OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED MAIN STREET END STA., CHANGED SAP TO SP
			CHANGED CSAH 14 TO TH 242 IN SHEET TITLE
2	MJF	5/9/00	MOD. REQ. #19: MODIFIED SEEDING AREA
3	JJL	07/17/01	MOD. REQ. #74: MODIFIED SEEDING AREA
4	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242ELS04C
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

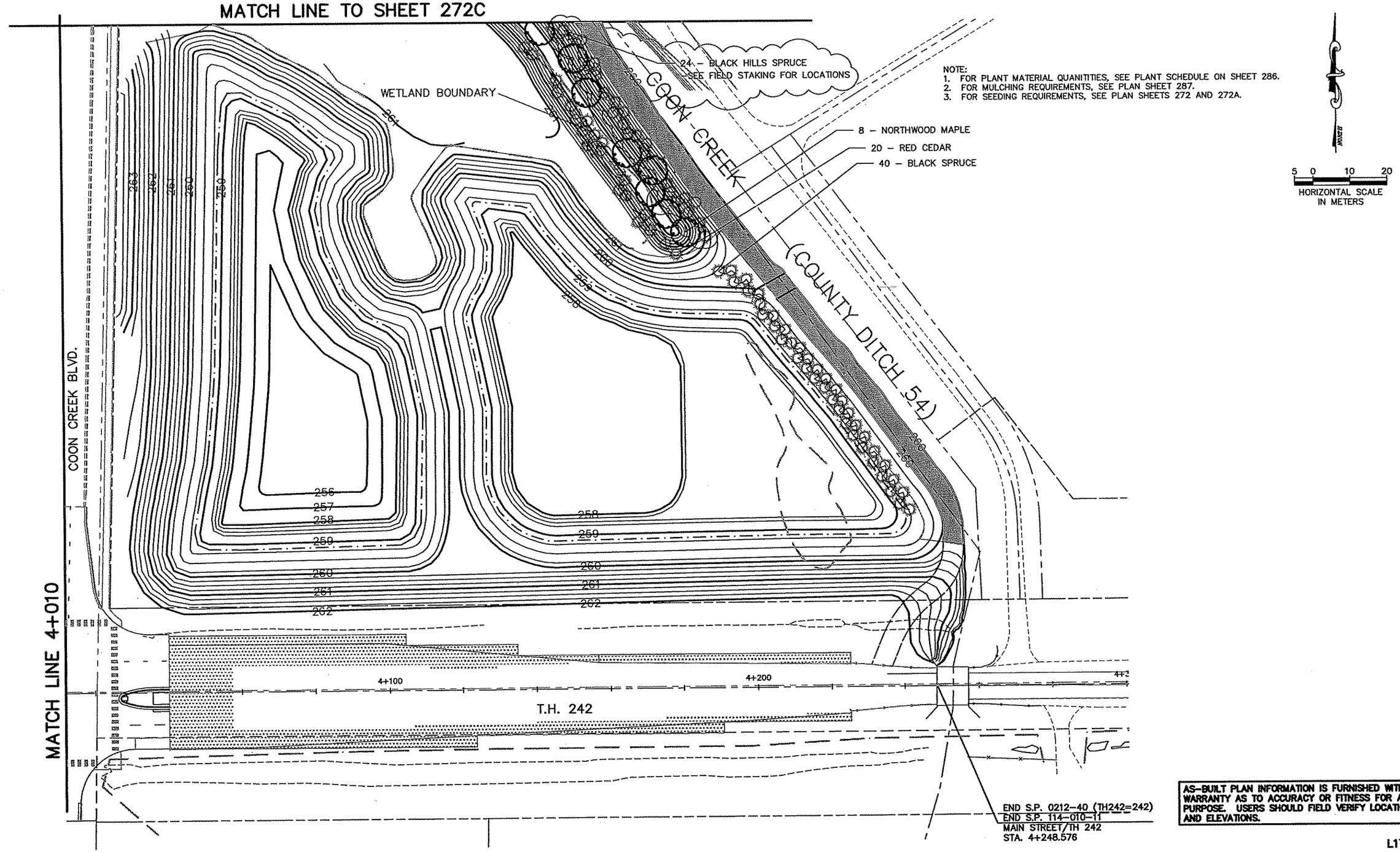
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
RESTORATION PLAN
STATION 4+010.000 TO STATION 4+300.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 272A / 539

PLOT DATE: Jul 16, 1:07pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN–SHT\...ning\242ELS04C.DWG



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L17B OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MJF	6/30/00	MOD. REQ. #19A: ADDED TREES TO BERM
2	JJL	7/17/01	MOD. REQ. #74: MODIFIED POND GRADING
3	TPH	7/24/01	MOD. REQ. #107: MODIFIED BERM PLANTING
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242ELS04A1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
LANDSCAPE PLAN
STATION 4+010.000 TO STATION 4+300.000

CITY PROJECT 98-20

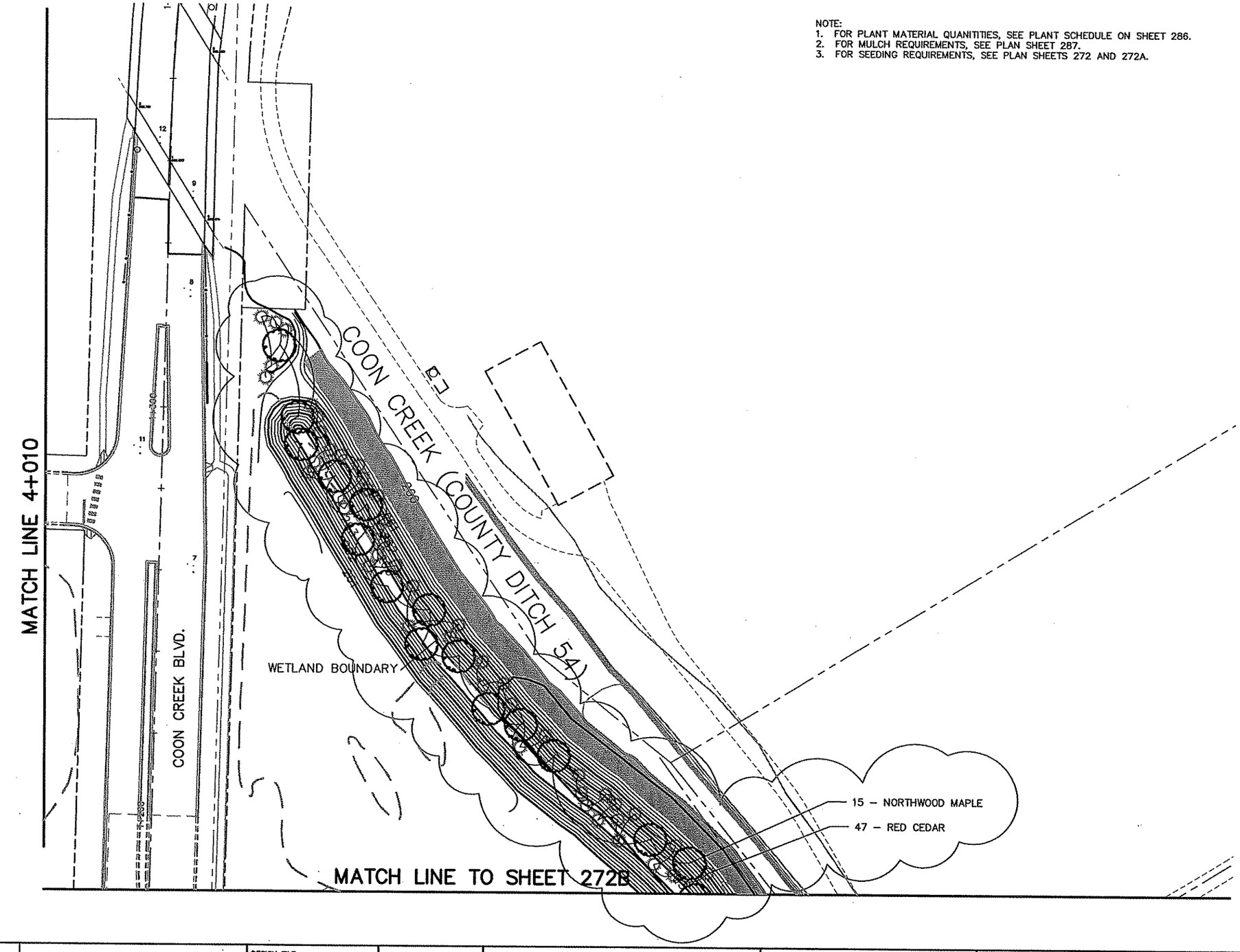
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

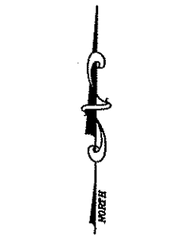
SHEET NO. 272B / 539

PLOT DATE: Jul 24, 2001 11:26am DISK FILE NAME: (15.05) R:\33889\33889028\33889E\PLAN-SHT\...nlng\242ELS04A1.DWG

osp-pond
42e-trees
242-ESUM
242PLN2A
242MHETO
242-WET
242-TCN
)X
PE
242W-MLS
242W-LGT
242E-PLN
242E-AL

NOTE:
1. FOR PLANT MATERIAL QUANITITIES, SEE PLANT SCHEDULE ON SHEET 286.
2. FOR MULCH REQUIREMENTS, SEE PLAN SHEET 287.
3. FOR SEEDING REQUIREMENTS, SEE PLAN SHEETS 272 AND 272A.





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L17C OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	MJF	6/30/00	MOD. REQ. #19A: TREES ADDED TO BERMS
2	JJL	07/17/01	MOD. REQ. #74: MODIFIED POND GRADING
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242ELS04A2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
LANDSCAPE PLAN
STATION 4+010.000 TO STATION 4+300.000

CITY PROJECT 98-20

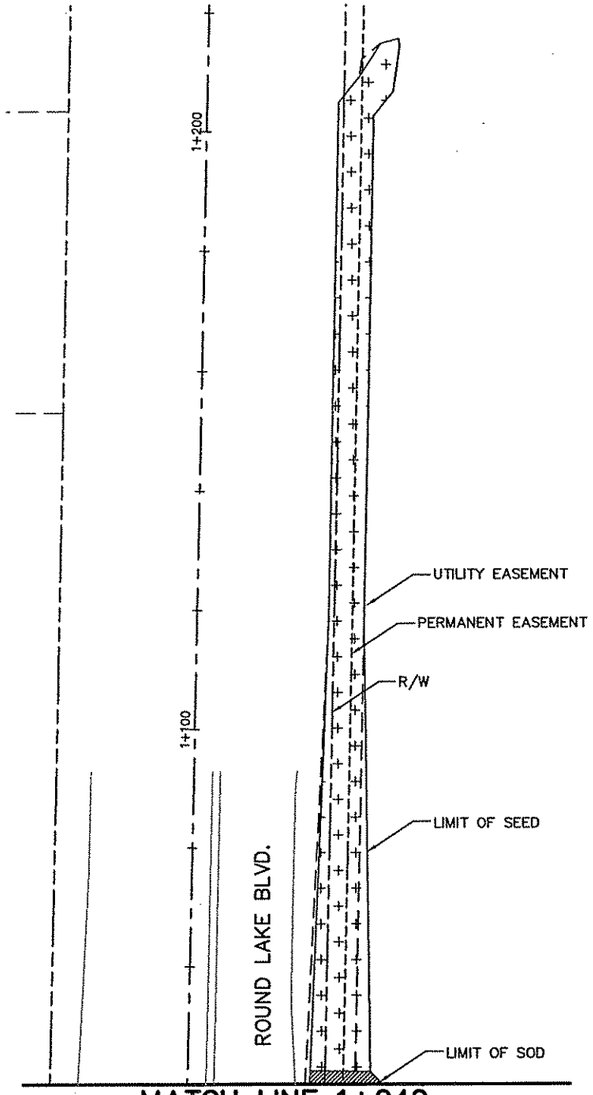
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 272C / 539

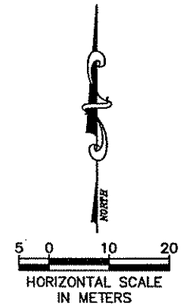
PLOT DATE: Jul 1(J1 1:09pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SH(anning)\242ELS04A2.DWG

2CLM-W
PBOX
2-SEED
_STRIPE
2W-MLS
2W
2F
2-
2-ESUM
2MHVEG
2MHETO
2-EUT

T\...NING\plans\RndLk01B.DWG
PLOT DATE: Jan 08, 2... 6:25pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\



MATCH LINE 1+040
SEE SHEET L10



LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: RndLk01B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
ROUND LAKE BOULEVARD
RESTORATION PLAN
STATION 1+000.000 TO STATION 1+220.000

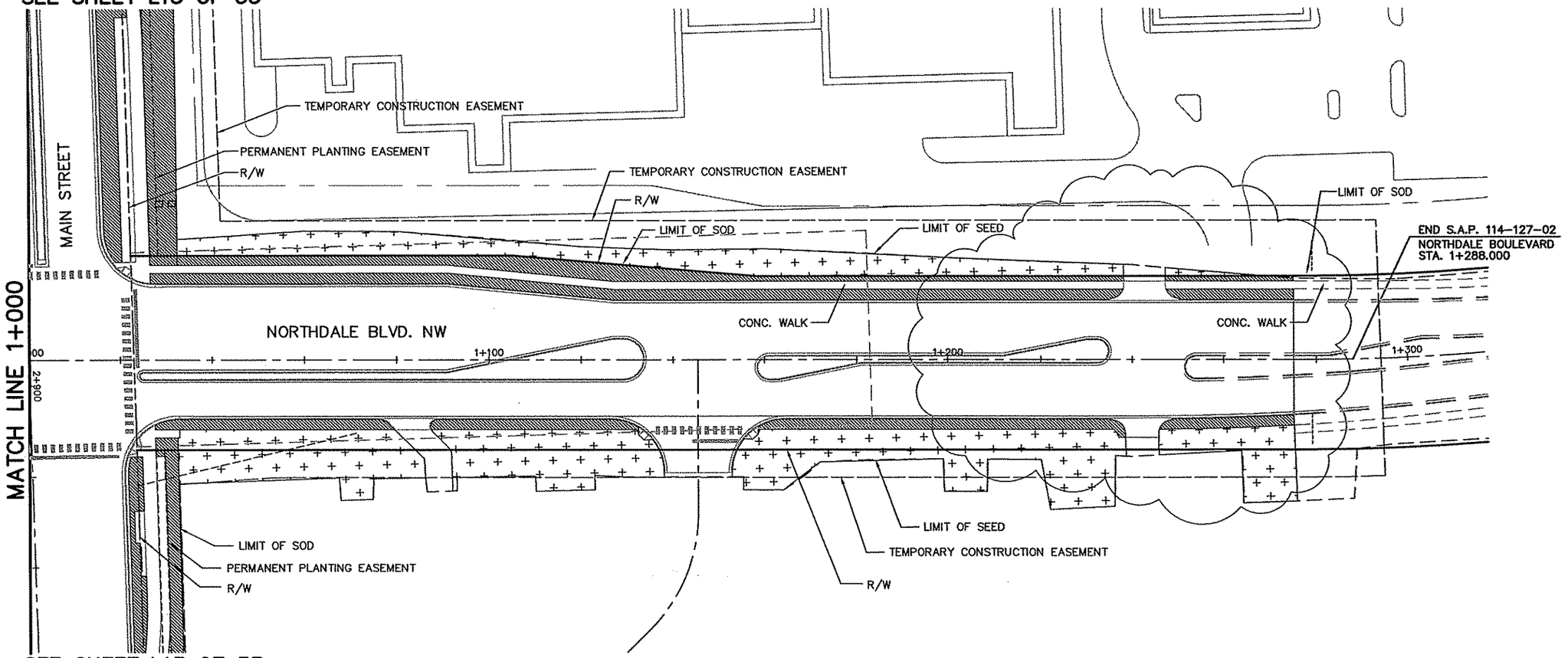
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 273 / 539

12-ESUM
12-SEED
12CLM-W
_STRIPE
12-ALTW
58
12
12MILL TO

SEE SHEET L13 OF 33



SEE SHEET L13 OF 33

NORTH

5 0 10 20
HORIZONTAL SCALE
IN METERS

LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	8/09/00	MOD.REQ.#56: REMOVED WALK, ADD SEED, REMOVE SOD
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: DALE02B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
RESTORATION PLAN
STATION 1+000.000 TO STATION 1+300.000

CITY PROJECT 98-20

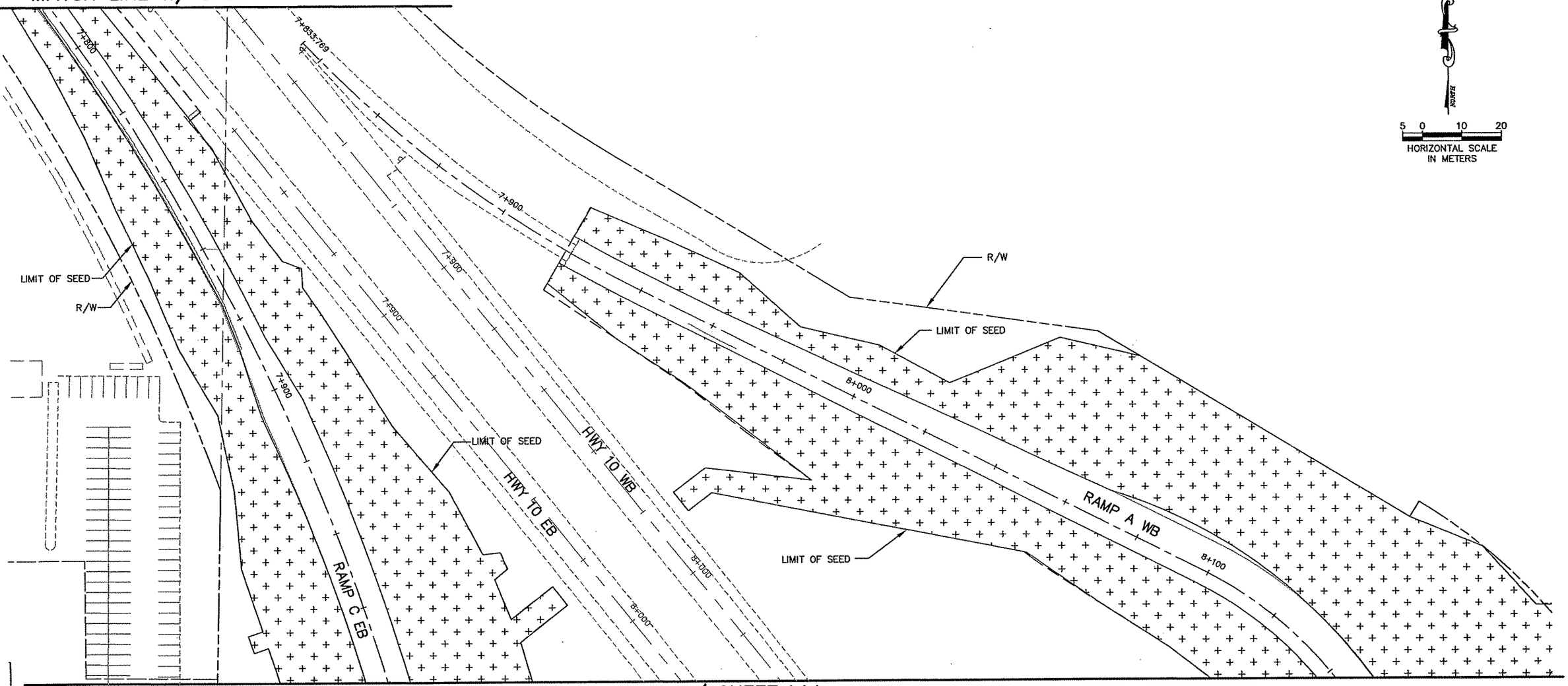
S.P.	0212 - 40
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.A.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 020 - 20
S.A.P.	114 - 127 - 20

SHEET NO. 274 / 539

PLOT DATE: Oct 02, J 6:18pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT \NING\plans\Dale02B.dwg

12E–CLM
12–ESUM
12–SEED
12E–PLN
12E–ALI
\PL
12

MATCH LINE W/ SHEET L21



5 0 10 20
HORIZONTAL SCALE
IN METERS

MATCH LINE W/ SHEET L14

LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L20 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: HWY01B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
US HIGHWAY 10
RESTORATION PLAN
STATION 7+800.000 TO STATION 8+020.000

CITY PROJECT 98–20

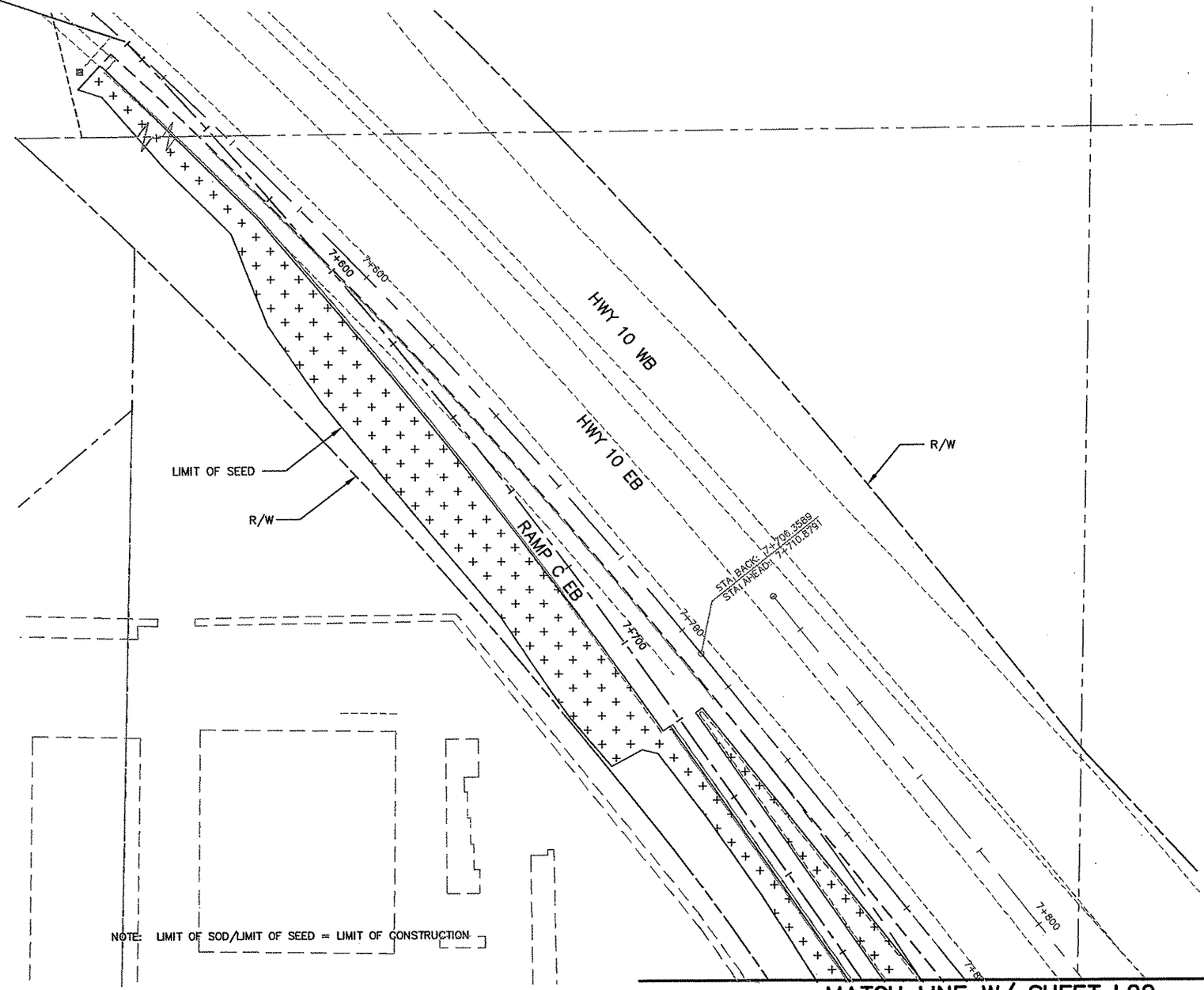
S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 275 / 539

PLOT DATE: Jan 08, 2000 7:09pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHTS\...NING\plans\Hwy01B.dwg

2–ESUM
2–SEED
2E–PLN
2E–CLM
2E–ALI
PF
2.

BEGIN CONSTRUCTION
E.B. TH 10/47 STA. 7+530.000
242 RAMP C STA. 7+535.458



5 0 10 20
HORIZONTAL SCALE
IN METERS

LEGEND:
- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

MATCH LINE W/ SHEET L20

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L21 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO SP No. FOR TH 10
			ADDED RAMP C BEGIN STA.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: HWY02B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
US HIGHWAY 10
RESTORATION PLAN
STATION 7+520.000 TO STATION 7+800.000

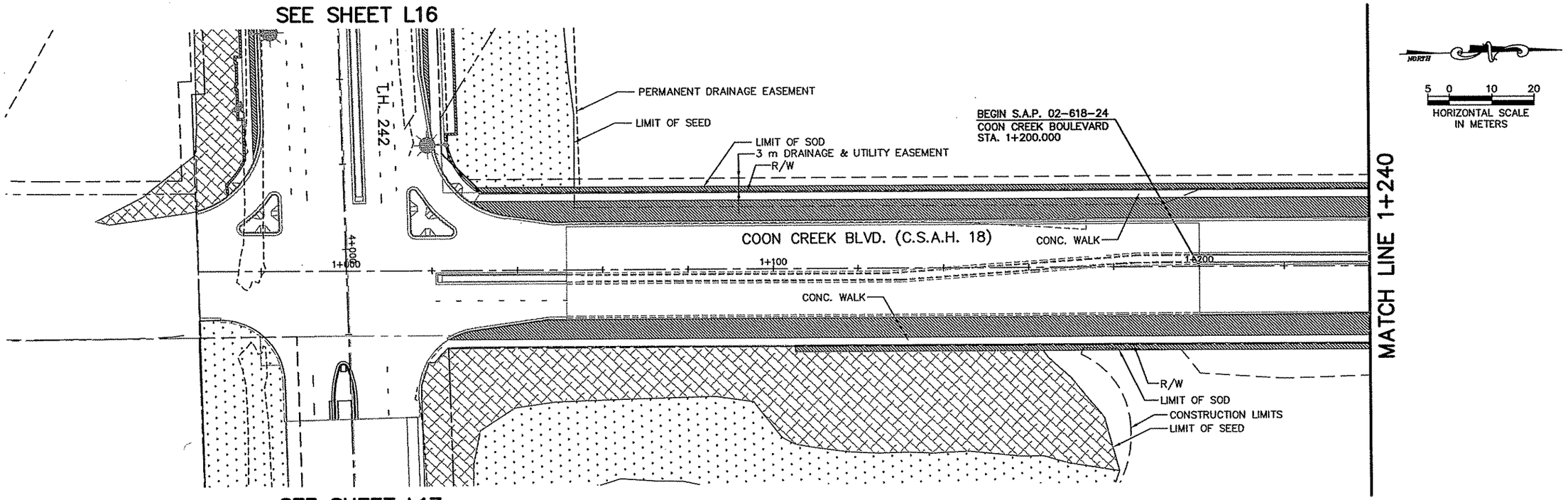
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

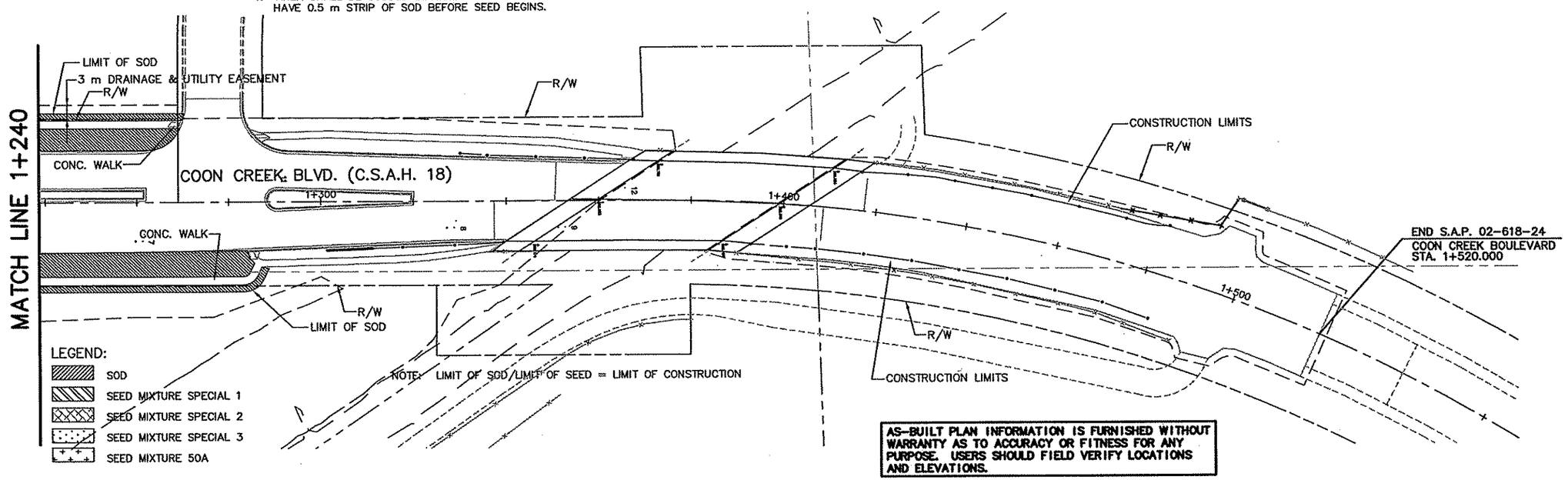
SHEET NO. 276 / 539

PLOT DATE: Nov 03, 1999 9:27am DISK FILE NAME: (14.01) R:\33689\33889028\33889W\PLAN_SHT\PLANNING\plans\Hwy02B.dwg

I2W-LGT
I2MHETO
I2-ESUM
I2PLN2A
I2-SEED
\PB
I2
I2
I2E-PLN



NOTE: (FOR EAST SIDE OF COON CREEK BLVD. BETWEEN STA. PTS. 1+000 AND 1+300 ONLY)
1. AREA SHALL BE SODDED BETWEEN B.O.C. AND SIDEWALK. OUTSIDE OF SIDEWALK SHALL HAVE 0.5 m STRIP OF SOD BEFORE SEED BEGINS.



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE RE: DRAIN. & UTIL. EASEMENT TO PERM. DRAINAGE EASEMENT. ADDED 3 m DRAINAGE & UTILITY EASEMENT COON CREEK BLVD. 1+208-1+269, LT.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: COON01B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BLVD.
RESTORATION PLAN
STATION 0+920.000 TO STATION 1+520.000

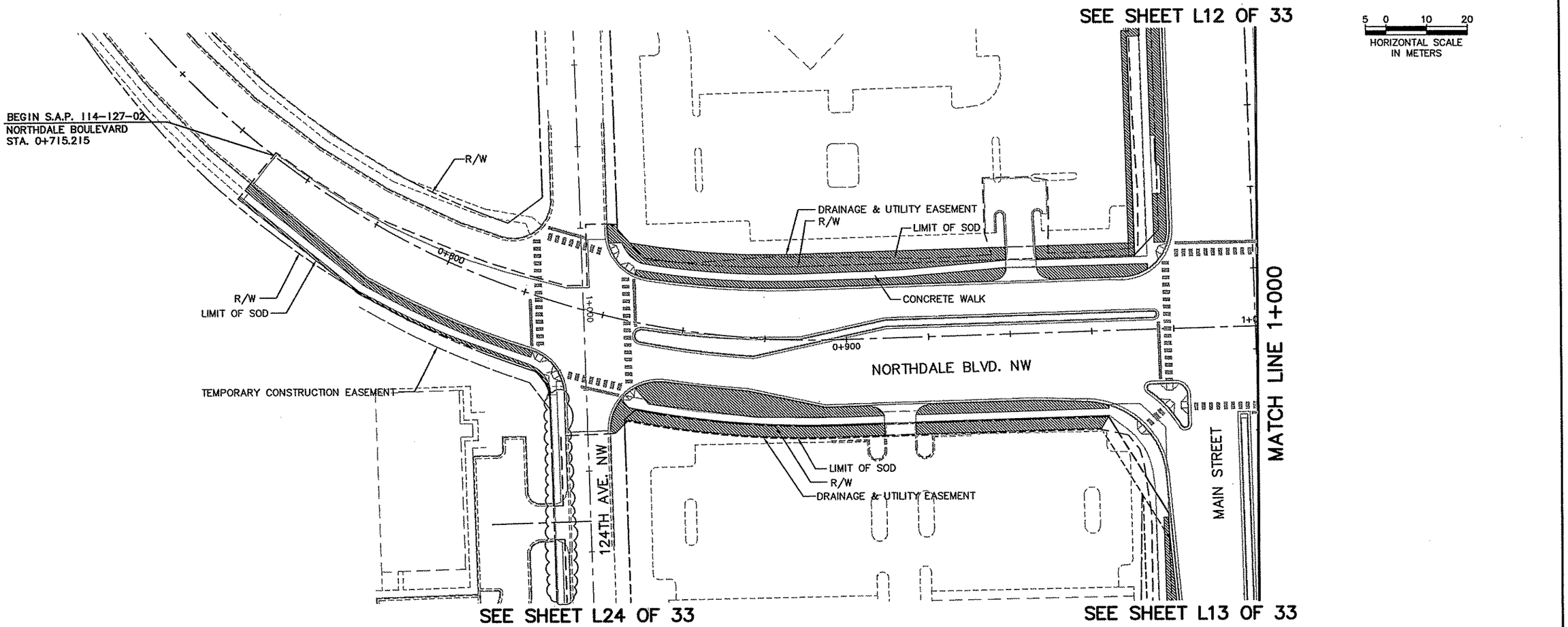
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 277 / 539

PLOT DATE: Jan .000 1:32pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S\PLANNING\plans\Coon01B.dwg

PLOT DATE: Aug 09, 2000 3:39pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\...NNING\plans\Dale01B.dwg



LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L23 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NORTHDALE BLVD. SAP No & BEGIN STA.
			DEL. SOD OUTSIDE CONSTR. LIMITS SE QUAD. MAIN/NDALE
2	MJF	6/01/00	MOD. REQ. #27: MODIFIED E. SIDE SOD LIMITS
3	JJL	8/09/00	MOD.REQ.#56:REMOVED WALK AND SOD ON 124TH
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: DALE01B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

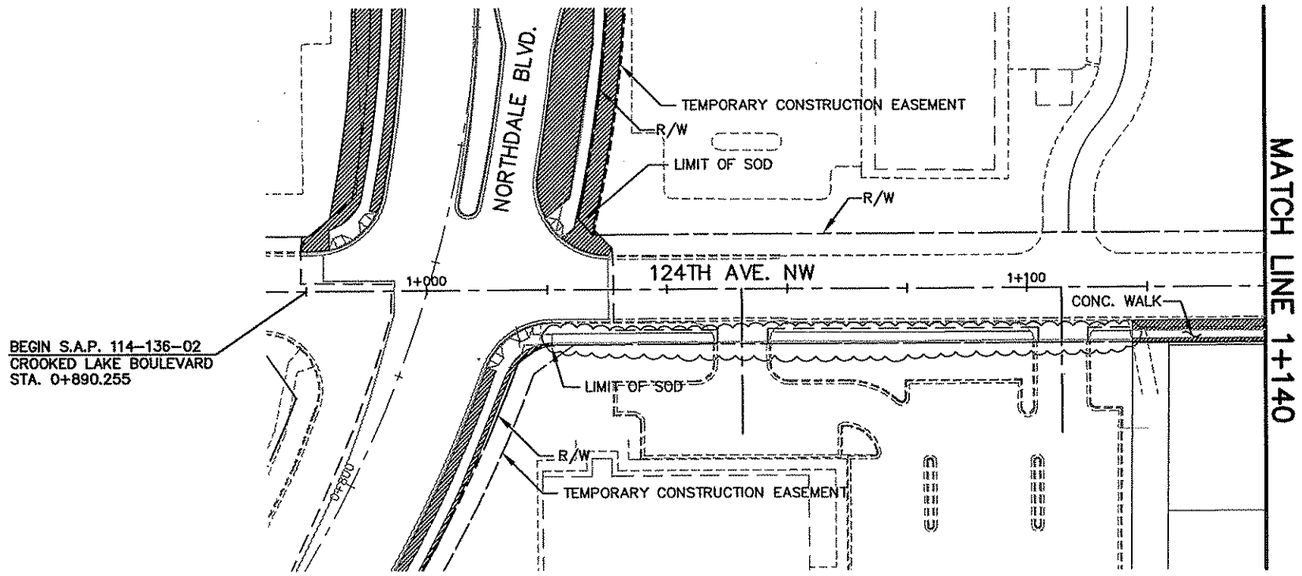
MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
RESTORATION PLAN
STATION 0+750.000 TO STATION 1+000.000

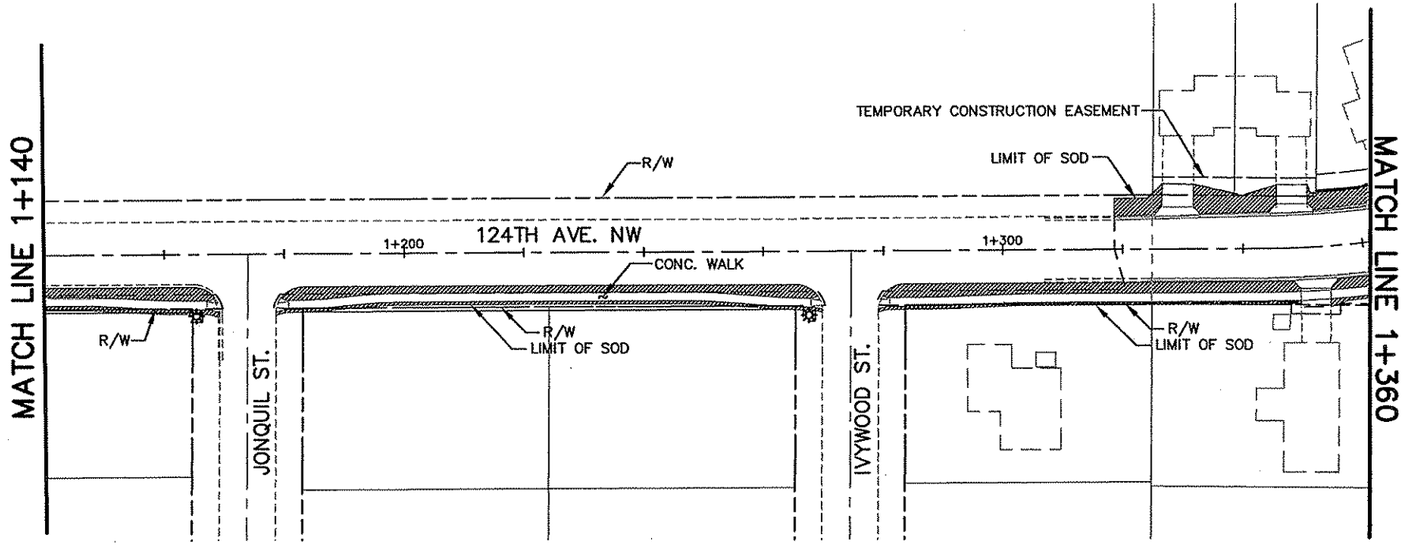
CITY PROJECT 98-20

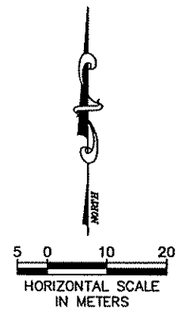
S.P.	0212 - 40
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.A.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 020 - 20
S.A.P.	114 - 127 - 20

SHEET NO. 278 / 539

SEE SHEET L23







LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED CROOKED LAKE BLVD SAP No. & BEGIN STA.
2	JJL	8/09/00	MOD.REQ.#56:(124th)REMOVED WALK 1+000.8-1+117.4, RT. (124th)CHANGED WALK WIDTH FROM 1.8 TO 1.5 m
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: CrkdLk03B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./
CROOKED LK. BLVD. (C.S.A.H. 18)
RESTORATION PLAN
STATION 1+000.000 TO STATION 1+360.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 279 / 539

PLOT DATE: Aug 09, 2000 4:05pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\...NING\plans\CrkdLk03B.dwg

MATCH LINE W/ SHEET L14

MATCH LINE 1+360

LIMIT OF SEED
R/W
LIMIT OF SOD
TEMPORARY CONSTRUCTION EASEMENT
124TH AVE. NW
CROOKED LAKE BLVD.
CONC. WALK
HEATHER ST.
GLADIOLA ST. N.W.
RESTORE ALL AREAS DISTURBED OUTSIDE OF DESIGNATED AREA TO BE SEEDED WITH SOD.
HWY. 10 EB
HWY. 10 WB
RAMP B
HWY. 10 EB (RAMP D)
P.E.
1+400
1+500
1+600
1+800
8+200
8+300
8+400
0+920
0+960

5 0 10 20
HORIZONTAL SCALE IN METERS

MATCH LINE W/ SHEET L26

LEGEND:
- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTES:
1. INSTALL SEED MIXTURE 2 ON BERMS UNDER ALL DECIDUOUS TREES AND UP TO CONIFERS & MULCH UNDER SHRUB BEDS.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L25 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	8/09/00	MOD.REQ.#56: REV.WALK WIDTH FROM 1.8 TO 1.5 m
2	SPM	6/21/01	MOD.REQ.#100: REVISED SEEDING AREA
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: CrkdLk01B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./
CROOKED LK. BLVD. (C.S.A.H. 18)
RESTORATION PLAN
STATION 1+360.000 TO STATION 1+620.000

CITY PROJECT 98-20

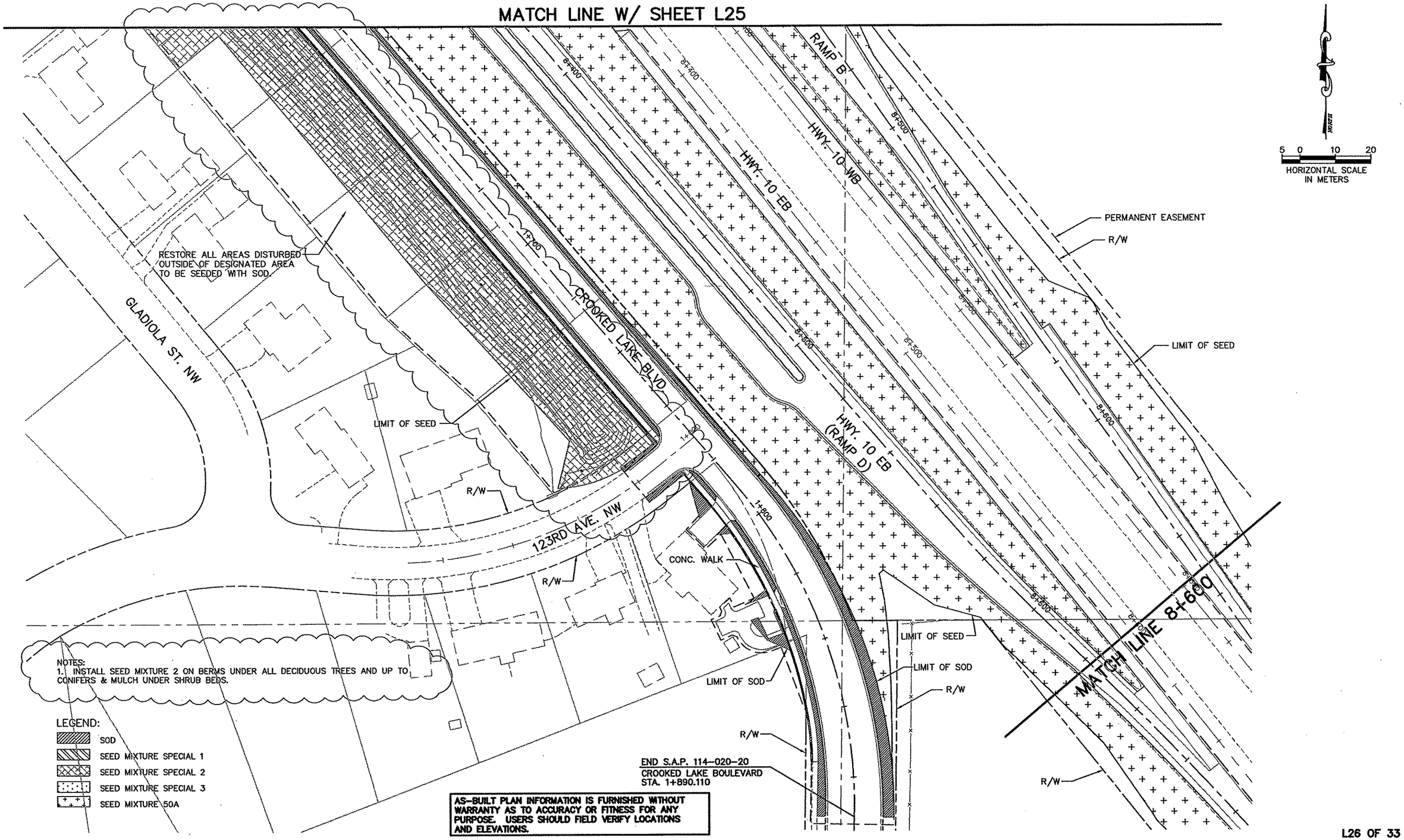
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 280 / 539

PLOT DATE: Jun 21, 2001 10:45am DISK FILE NAME: (15.0) R:\33889\33889028\33889W\PLAN_SHT\...NING\plans\CrkdLk01B.dwg

24–BERM
RLKSEED
12–SEED
12E–PLN
12E–CLM
12
12
12
12CLM–W
APBOX
RKDLK
12MHETO
12–ESUM

MATCH LINE W/ SHEET L25



NOTES:
1. INSTALL SEED MIXTURE 2 ON BERMS UNDER ALL DECIDUOUS TREES AND UP TO CONIFERS & MULCH UNDER SHRUB BEDS.

LEGEND:
- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L26 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD, REV. SEED ALONG C.L.B.
2	JJL	8/09/00	MOD.REQ.#56:REV.WALK WIDTH FROM 1.8 TO 1.5 m
3	SPM	6/21/01	MOD. REQ.#100: REVISED SEEDING AREA
4	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: CrkdLk02B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.18.

DATE: 11/5/99 MINN. REG. NO. 24900

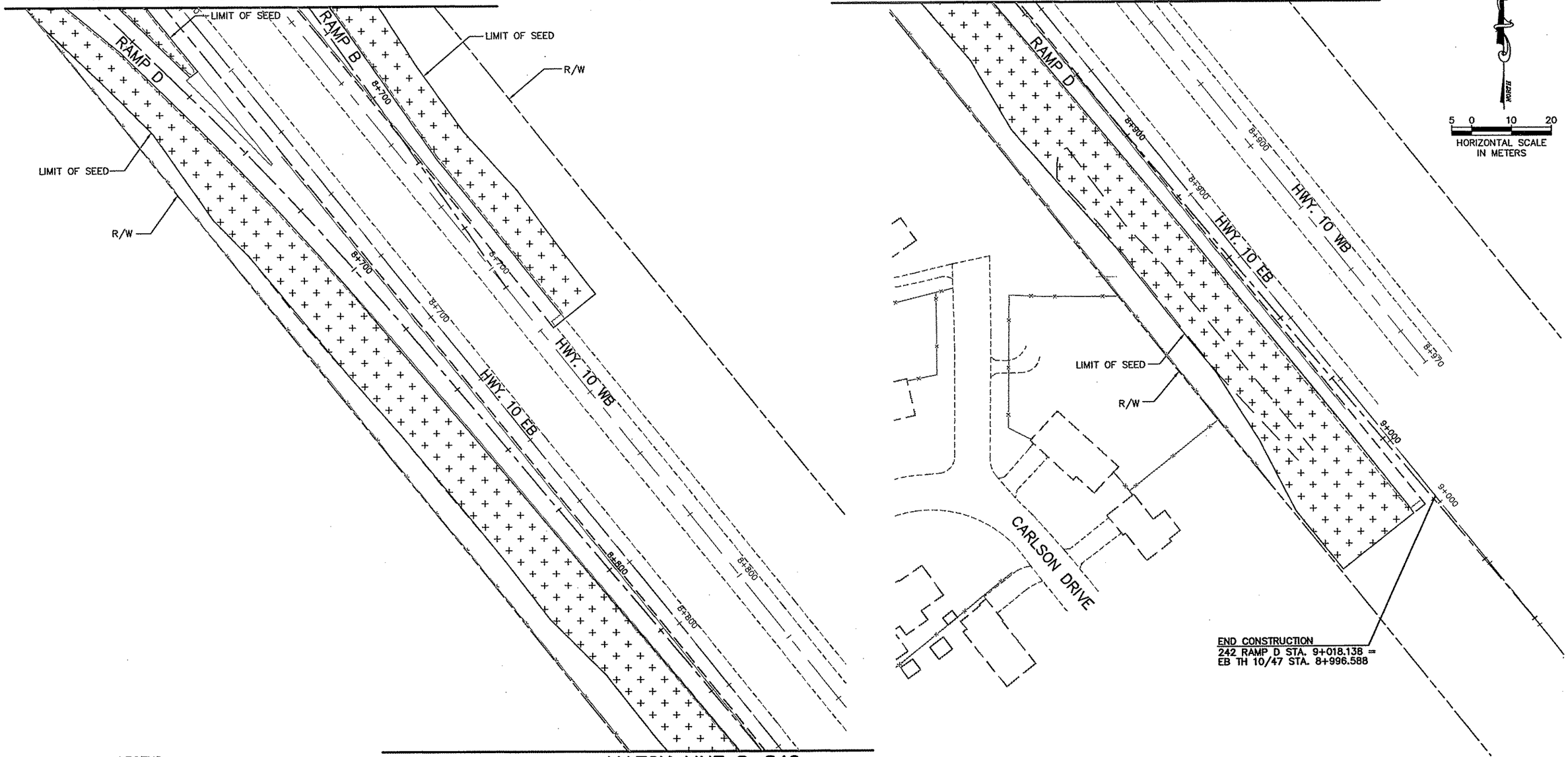
MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./ CROOKED LK. BLVD. (C.S.A.H. 18)
RESTORATION PLAN
STATION 1+620.000 TO STATION 1+900.000

CITY PROJECT 98–20

S.P.	0212–40 (T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 281 / 539

PLOT DATE: Jun 21, 2001 10:4..... DISK FILE NAME: (15:0) R:\33889\33889028\33889W\PLAN_SHT\PLANNING\plans\CrkdLk02B.dwg



LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L27 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO SP No FOR TH 10
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: CrkdLk04B
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./
CROOKED LK. BLVD. (C.S.A.H. 18)
RESTORATION PLAN
STATION 8+600.000 TO STATION 9+000.000

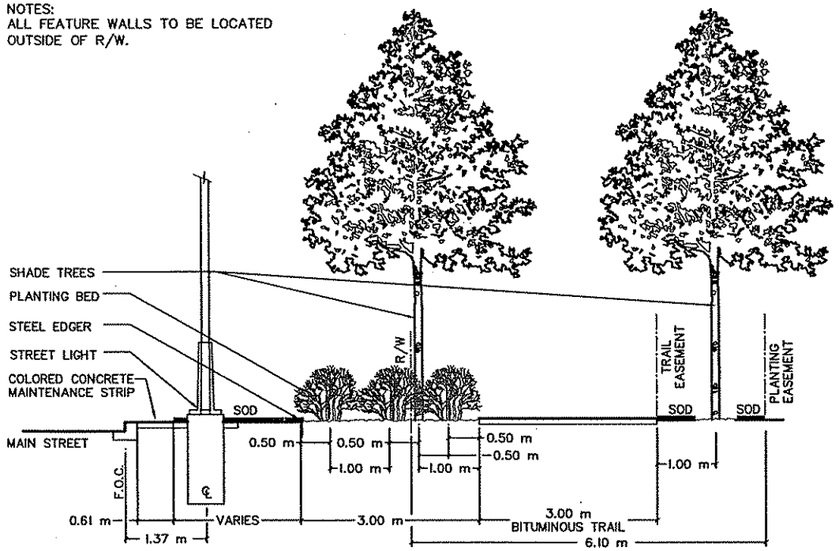
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 282 / 539

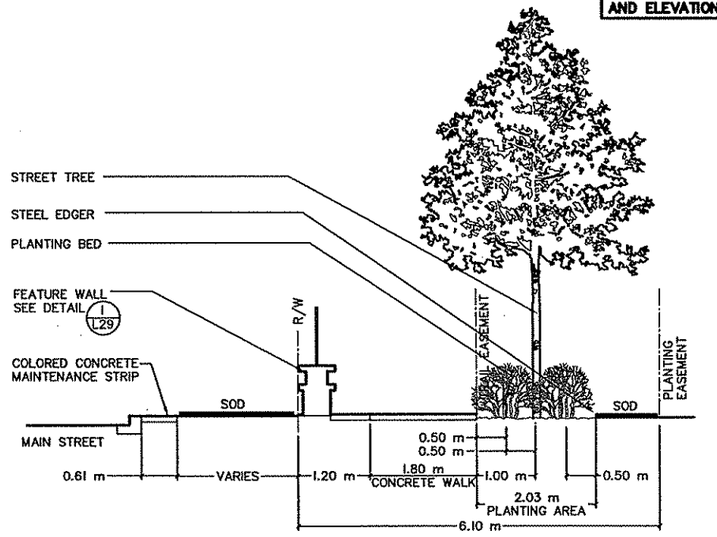
PLOT DATE: Jan 08, 2000 7:47pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\PLANNING\plans\CrkdLk04B.dwg

NOTES:
ALL FEATURE WALLS TO BE LOCATED OUTSIDE OF R/W.



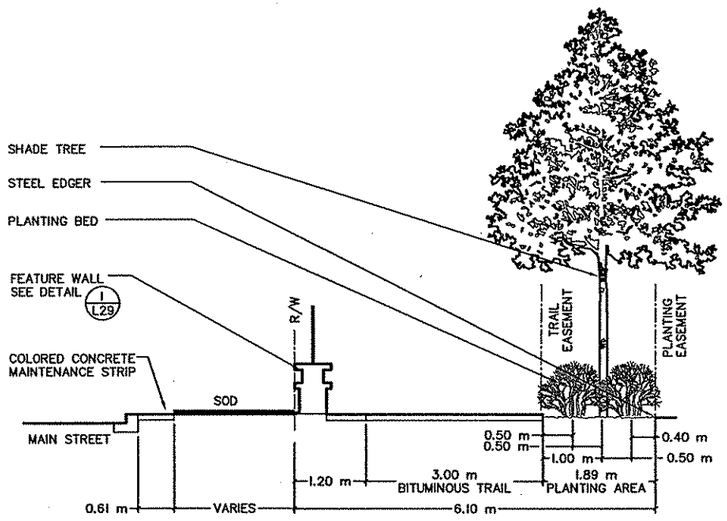
1 L28 TYPICAL SECTION OF NW CORNER @ INTERSECTIONS

SCALE IN METERS: 0.5 0 1.0 2.0



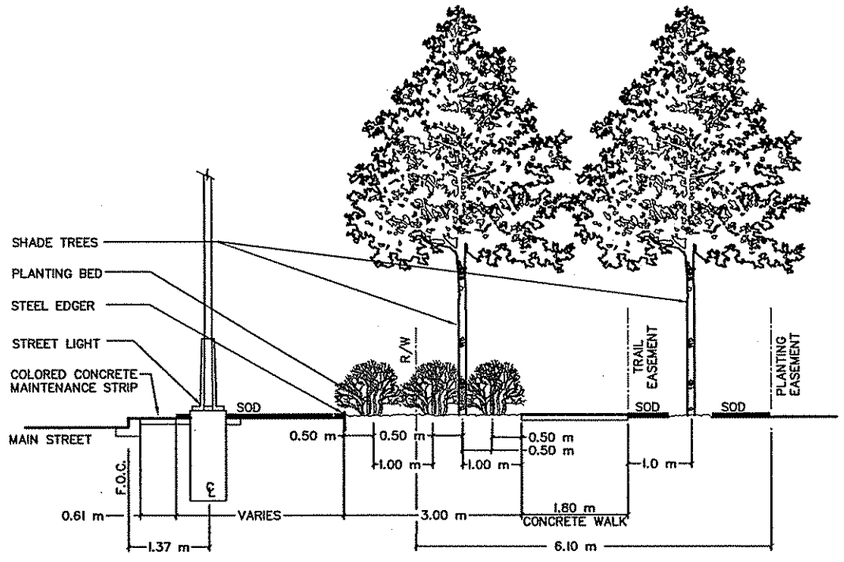
2 L28 TYPICAL SECTION OF SW CORNER @ INTERSECTIONS

SCALE IN METERS: 0.5 0 1.0 2.0



3 L28 TYPICAL SECTION OF NE CORNER @ INTERSECTIONS

SCALE IN METERS: 0.5 0 1.0 2.0



4 L28 TYPICAL SECTION OF SE CORNER @ INTERSECTIONS

SCALE IN METERS: 0.5 0 1.0 2.0

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L28 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242wd02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

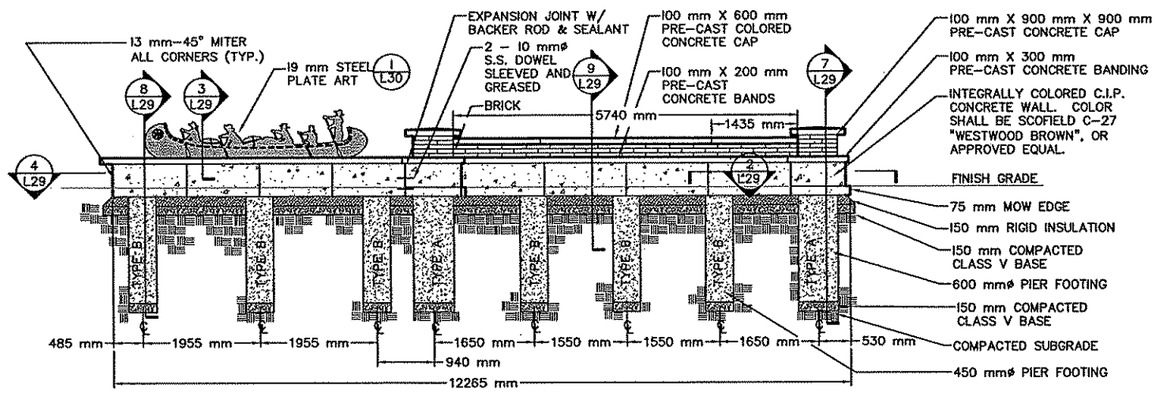
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
URBAN DESIGN DETAILS
PLANTING SECTIONS

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 283 / 539

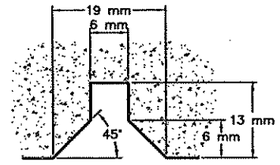
PLOT DATE: Nov 0...999 9:33am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sh...\LANNING\DETAILS\242wd02.dwg



1 / L29 FEATURE WALL ELEVATION

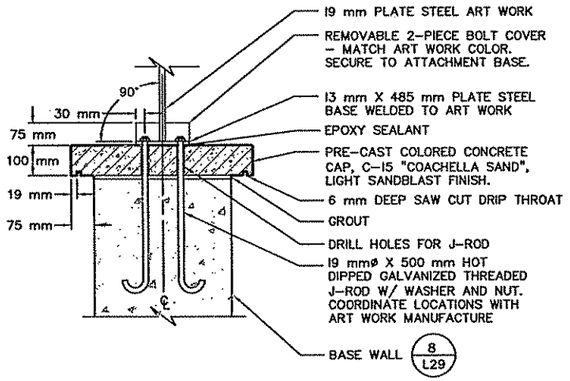
SCALE IN METERS: 0.5 0 1.0 2.0

NOTES:
1. ALL PRE–CAST CAPS AND BANDING TO BE 1.2 m MAXIMUM LENGTH.
2. PROVIDE SHOP DRAWINGS FOR ALL PRE–CAST CAPS AND BANDING.
3. PROVIDE SHOP DRAWINGS FOR ART WORK ATTACHMENT BOLT COVER PLATE.
4. PRIME AND PAINT ALL STEEL PLATE MEMBERS PER SPEC.
5. ALL FOOTING CONCRETE TO BE 1A43. ALL WALL CONCRETE TO BE 3Y43.
6. ALL REBAR TO BE EPOXY COATED IN ACCORDANCE WITH MN/DOT SPEC. 3301.



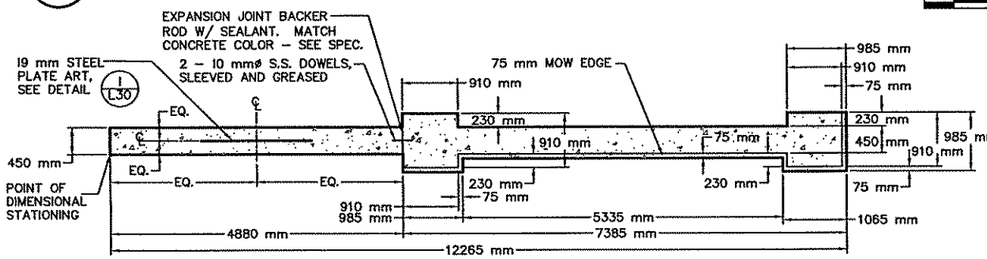
2 / L29 FEATURE WALL VERTICAL REVEAL

SCALE IN METRIC: N.T.S.



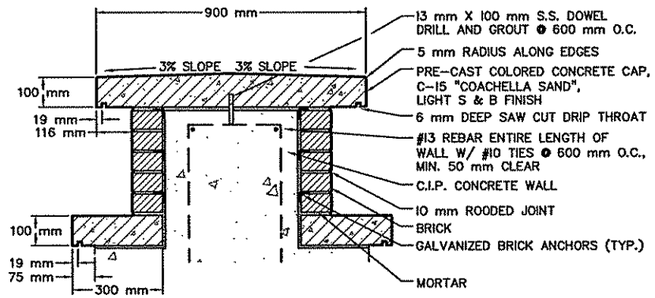
3 / L29 FEATURE WALL ART ATTACHMENT

SCALE IN METERS: 0.1 0 0.2 0.4



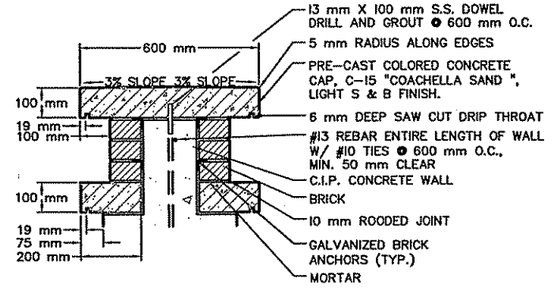
4 / L29 FEATURE WALL CAST IN PLACE (C.I.P.) CONCRETE CORE PLAN

SCALE IN METERS: 0.5 0 1.0 2.0



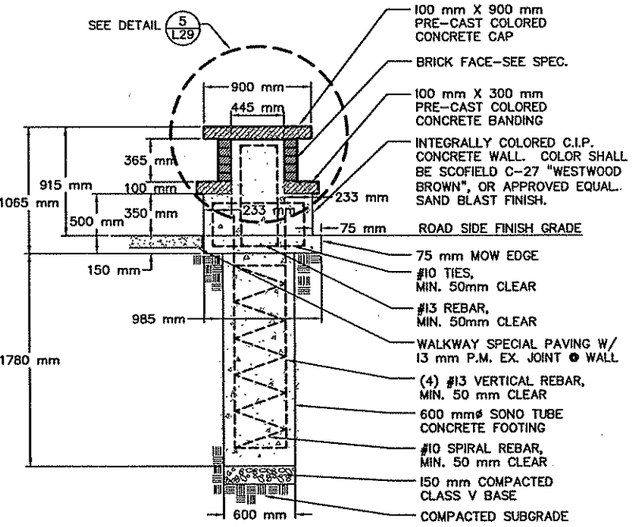
5 / L29 FEATURE WALL UPPER COLUMN SECTION

SCALE IN METERS: 0.1 0 0.2 0.4



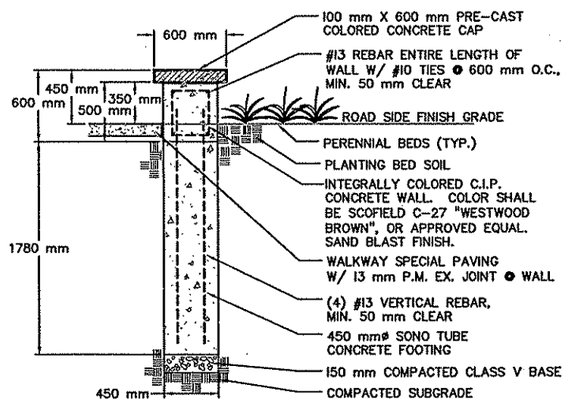
6 / L29 FEATURE WALL UPPER TIER SECTION

SCALE IN METERS: 0.1 0 0.2 0.4



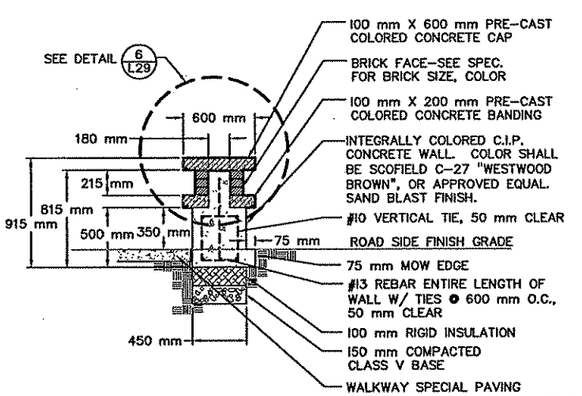
7 / L29 FEATURE WALL W/ TYPE A PIER FOOTING

SCALE IN METERS: 0.25 0 0.5 1.0



8 / L29 FEATURE WALL W/ TYPE B PIER FOOTING

SCALE IN METERS: 0.25 0 0.5 1.0



9 / L29 FEATURE WALL SECTION

SCALE IN METERS: 0.25 0 0.5 1.0

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

L29 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242WD01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
URBAN DESIGN DETAILS
FEATURE WALLS

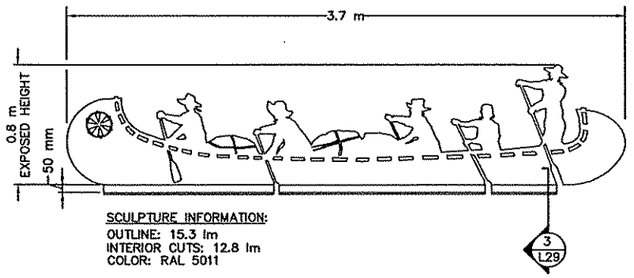
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

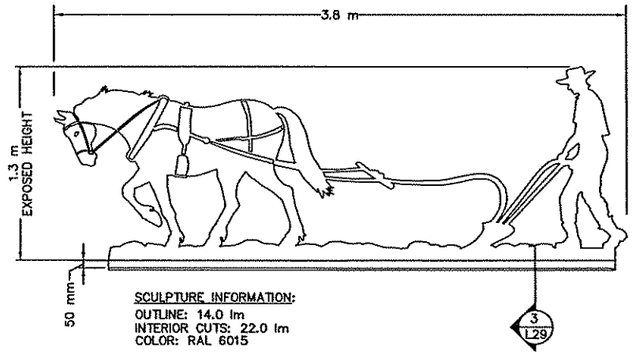
SHEET NO. 284 / 539

PLOT DATE: Dec 22, 1:53pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\NING\DETAILS\242wd01.dwg

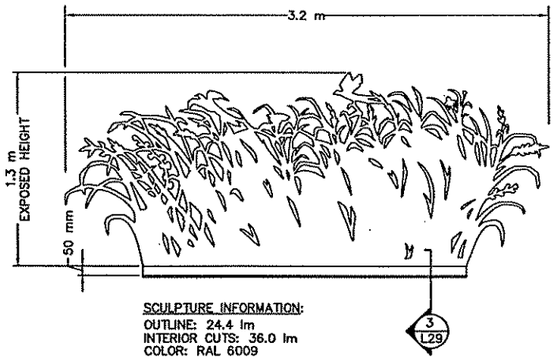
NOTES:
1. ALL VERTICAL SCULPTURE PLATE STEEL TO BE 19 mm THICK. SEE SPECIFICATIONS FOR CUTTING METHODS AND PROCEDURES.
2. SEE DETAIL 3 OF SHEET L29 FOR ATTACHMENT OF ART WORK TO WALL.
3. SPACE ATTACHMENT BOLTS 450 mm MIN. O.C.
4. PROVIDE WALL CONTRACTOR WITH BOLTING TEMPLATE PRIOR TO WALL CONSTRUCTION.
5. SEE SPECIFICATIONS FOR PAINTING METHODS AND PROCEDURES.
6. ELECTRONIC FILES FOR ART WORK CAN BE PROVIDED IN .DXF, .DWG, OR .TIF FORMAT.
7. PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION.



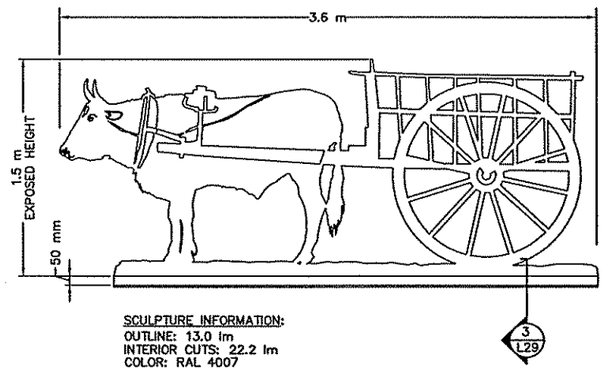
1 / L30 VOYAGEURS
SCALE IN METERS: 0,2 0 0,4 0,8



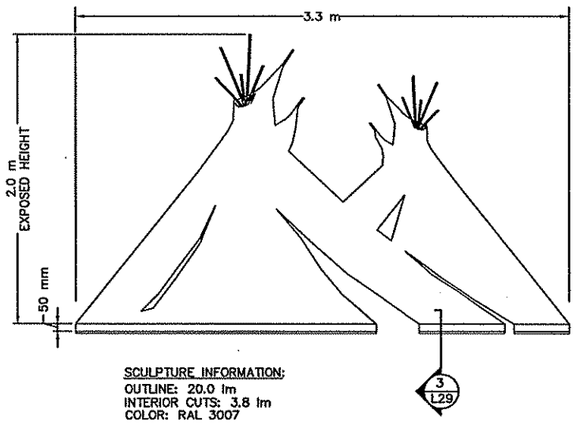
2 / L30 HORSE AND PLOW
SCALE IN METERS: 0,2 0 0,4 0,8



3 / L30 PRAIRIE
SCALE IN METERS: 0,2 0 0,4 0,8



4 / L30 OXCART
SCALE IN METERS: 0,2 0 0,4 0,8



5 / L30 TEEPEE
SCALE IN METERS: 0,2 0 0,4 0,8

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: KEF | DESIGN BY: KEF
CHKED. BY: THP | DWG. NAME: SCULPTURE
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

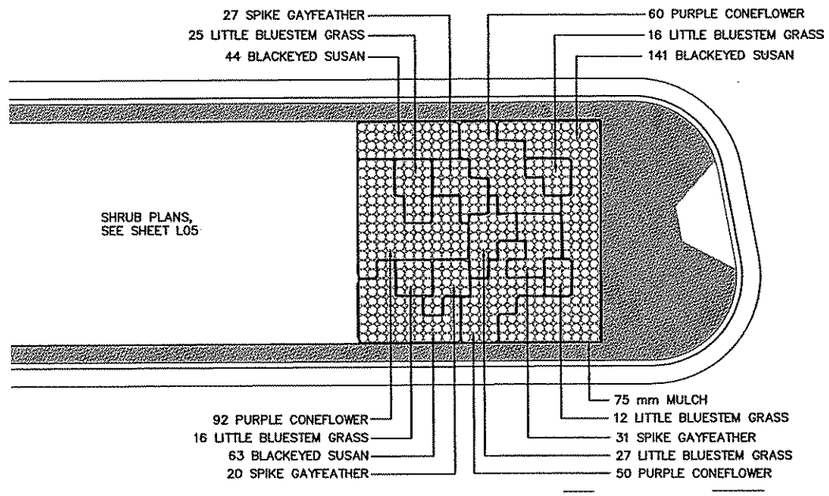
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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
URBAN DESIGN DETAILS
FEATURE WALL SCULPTURES
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

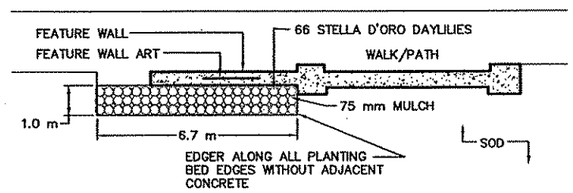
SHEET NO. 285 / 539

PLOT DATE: Jan 06, 2000 7:24pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SH\LANNING\DETAILS\sculpture.dwg



1 / L31 MEDIAN PERENNIAL BED PLAN @ STA. 3+240

SCALE IN METERS: 1.0 0 2.0 4.0



2 / L31 TYP. PERENNIAL BED PLAN @ FEATURE WALL

SCALE IN METERS: 1.0 0 2.0 4.0

PLANT SCHEDULE

AG

QTY.	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
12	AMUR MAPLE	Acer ginnala	1.8 m HT.	B&B	CLUMP, 3 CANES MIN.
10	NORTHWOOD MAPLE	Acer rubrum 'Northwood'	60 mm CAL.	B&B	SINGLE, STRAIGHT LEADER
23	NORTHWOOD MAPLE	Acer rubrum 'Northwood'	85 mm CAL.	B&B	SINGLE, STRAIGHT LEADER
38	THORNLESS COCKSPUR HAWTHORN	Crataegus crusgalli var. inermis	40 mm CAL.	B&B	SINGLE, STRAIGHT LEADER
130	PATMORE GREEN ASH	Fraxinus pennsylvanica 'Patmore'	60 mm CAL.	B&B	SINGLE, STRAIGHT LEADER
90	BICOLOR OAK	Quercus bicolor	60 mm CAL.	B&B	SINGLE, STRAIGHT LEADER
6	BICOLOR OAK	Quercus bicolor	40 mm CAL.	B&B	SINGLE, STRAIGHT LEADER
9	BUR OAK	Quercus macrocarpa	50 mm CAL.	B&B	SINGLE, STRAIGHT LEADER
41	QUAKING ASPEN	Populus tremuloides	25 mm CAL.	B&B	SINGLE, STRAIGHT LEADER
42	QUAKING ASPEN	Populus tremuloides	50 mm CAL.	B&B	SINGLE, STRAIGHT LEADER
81	BLACK HILLS SPRUCE	Picea glauca densata	1.8 m HT.	B&B	FULL FORM TO GROUND
59	COLORADO GREEN SPRUCE	Picea pungens	1.8 m HT.	B&B	FULL FORM TO GROUND
40	BLACK SPRUCE	Picea mariana	1.8 m HT.	B&B	FULL FORM TO GROUND
67	COLORADO REDCEDAR	Juniperus scopulorum	1.8 m HT.	B&B	FULL FORM TO GROUND
168	ISANTI DOGWOOD	Cornus sericea 'Isanti'	800 mm HT.	CONT.	SPACE 1220 mm O.C.
2294	MORDEN RUBY SHRUB ROSE	Rosa 'Morden Ruby'	NO. 2	CONT.	SPACE 1000 mm O.C.
1592	CAREFREE WONDER SHRUB ROSE	Rosa 'Meipitac'	NO. 2	CONT.	SPACE 1000 mm O.C.
240	BRIDALWREATH SPIREA	Spiraea prunifolia	600 mm HT.	CONT.	SPACE 1220 mm O.C.
96	LITTLE BLUESTEM GRASS	Andropogon scoparius	150 mm POT	CONT.	SPACE 330 mm O.C.
202	PURPLE CONEFLOWER	Echinacea purpurea	150 mm POT	CONT.	SPACE 330 mm O.C.
594	STELLA D'ORO DAYLILY	Hemerocallis 'Stella D'Oro'	150 mm POT	CONT.	SPACE 330 mm O.C.
78	SPIKE GAYFEATHER	Liatris spicata 'Kobold'	150 mm POT	CONT.	SPACE 330 mm O.C.
248	BLACKEYED SUSAN	Rudbeckia fulgida 'Goldsturm'	150 mm POT	CONT.	SPACE 330 mm O.C.

GENERAL NOTES – THESE NOTES REFER TO SHEETS L01 THROUGH L09 ONLY

1. TYPE "A" PLANTING BEDS TO BE 2 m WIDE W/ 2 ROWS OF SHRUBS.
2. TYPE "B" PLANTING BEDS TO BE 3 m WIDE W/ 3 ROWS OF SHRUBS.
3. ALL PLANTING BEDS TO HAVE STEEL EDGER ON ALL SIDES NOT BORDERED BY CONCRETE OR BITUMINOUS PAVING.
1 4. ALL PLANTING BEDS, TREES AND SOD ON MAIN STREET AND MAIN STREET MEDIAN, INSIDE OF CONCRETE WALK SPECIAL 1, CONCRETE WALK SPECIAL 2 AND BIT. PATH SPECIAL 1 BETWEEN STA. PTS. 2+020 AND 3+250 SHALL BE IRRIGATED. ALSO, BETWEEN THE MENARD'S PARKING LOT AND TRAIL SOUTH OF MENARDS/AMOCO BETWEEN STA. PTS. 2+980 AND 3+250 SHALL BE IRRIGATED. PROVIDE SHOP DRAWINGS FOR IRRIGATION SYSTEM DESIGN.
6. ALL PLANTINGS SHALL BE MULCHED WITH SHREDDED HARDWOOD. SEE DETAIL SHEET L32.
7. RESTORE ALL DISTURBED AREAS, NOT OTHERWISE NOTED, WITH NEW SOD. CONSULT LANDSCAPE ARCHITECT IF AREAS IN QUESTION EXCEEDS MORE THAN 50 SQUARE METERS. FINE GRADE TOPSOIL PRIOR TO LAYING SOD.
8. STAKE ALL TREES, SHRUB BEDS AND GENERAL SEEDING AREAS FOR LANDSCAPE ARCHITECTS APPROVAL PRIOR TO INSTALLATION OF MATERIAL.
9. DUE TO THE ADDITION OF THE ABOVE SHRUB ROSES INTALL 244.0 LINEAR METERS OF STEEL EDGER PER THIS PLAN REVISION. INSTALL ADDITIONAL HARDWOOD SHREDDED MULCH PER DETAIL. MULCH IS CONSIDERED INCIDENTAL TO SHRUB PLANTINGS.

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	11/24/99	ADDED CHART No. TO TABULATION
2	TPH	2/11/00	ADDEND 1 MODIFY GENERAL NOTE # 4
3	MJF	6/05/00	MOD. REQ. #19A: REVISED PLANT QUANITIES TO REFLECT NEW BERM PLANTINGS
4	TPH	7/05/00	MOD. REQ. #38: REVISED MENARDS ENTRANCE
5	TRH	7/31/00	MOD. REQ. #52: ADD/DELETE SHRUB TO MEDIANS
6	TPH	6/8/01	MOD. REQ. #98: REVISED SHRUB BEDS
7	TPH	7/24/01	MOD. REQ. #107: MODIFIED BERM PLANTING
8	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF/M.PAUN
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242wd07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 11/5/99 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLANTING DETAILS

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 286 / 539

PLOT DATE: Jul 24, 2001 11:29am DISK FILE NAME: (15.05) R:\33889\33889028\33889W\PLAN_SHT\PLANNING\DETAILS\242wd07.dwg
PBOX
2W-MLS
2W-LGT
2E-PLN



ZONE 1 ▭ BELOW −45° C
ZONE 2 ▭ −45° to −40°
ZONE 3 ▭ −40° to −35°
ZONE 4 ▭ −35° to −30°

STATE INSPECTED PLANTS GROWN WITHIN ZONES 1–4 AND THE ACCEPTABLE GROWING RANGE FOR A MINIMUM OF 2 YEARS MAY BE USED ON ALL PROJECTS UNLESS OTHERWISE SPECIFIED.

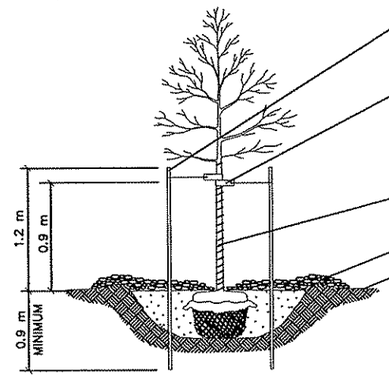
ZONE 5 ▭ −30° to −25°

STATE INSPECTED PLANTS GROWN WITHIN ZONE 5 AND THE ACCEPTABLE GROWING RANGE FOR A MINIMUM OF 2 YEARS ARE ALLOWED ONLY ON PROJECTS WITHIN ZONE 4 IN MINNESOTA. UNLESS CERTIFIED AS MINNESOTA ZONE HARDY IN ZONES 3 AND 2.

PLANT STOCK NOT GROWN WITHIN THE THE ACCEPETABLE ZONES AND GROWING RANGE FOR A MINIMUM OF 2 YEARS MAY BE ACCEPTED IF THE SEED SOURCE OR ROOT AND GRAFT STOCK IS CERTIFIED AND DOCUMENTED AS MIDWEST AND NORTHERN GROWN AND MINNESOTA ZONE HARDY.

1 / L32 ACCEPTABLE GROWING RANGE FOR MIDWEST AND NORTHERN GROWN PLANT STOCK

SCALE IN METRIC: N.T.S.
SOURCE: U.S.D.A. PLANT HARDINESS ZONE MAP



2.1 m ROLLED STEEL POST (Mn/DOT 3403) OR APPROVED EQUAL

FLAT WOVEN TAPE CONSTRUCTED OF A HIGH TENACITY SYNTHETIC FIBER 19 mm WIDE WITH A BREAK STRENGTH OF 410 kg. OR 406 mm LONG POLYPROPYLENE OR POLYETHYLENE (40 MIL) 38 mm WIDE STRAPS WITH 10 GA. WIRE ATTACHED BY GROMMETS

WRAP TREE TO FIRST BRANCHING W/ APPROVED TREE WRAP. START AT BOTTOM.

MULCH

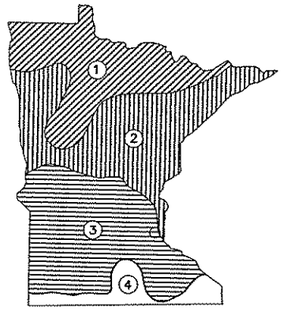
FINISHED GRADE

NOTES:
1. STEEL POSTS TO BE NOTCHED OR DRILLED TO RETAIN GUY WIRES. PLACE OUTSIDE OF ROOT BALL. DRIVE PLUMB REGARDLESS OF GROUND SLOPE.
2. REQUESTS TO SUBSTITUTE RUBBER HOSE AND WIRE GUYING SYSTEMS WILL NOT BE APPROVED.
3. USE EITHER STRAPPING TAPE OR WIRE WITH POLYPROPYLENE STRAPS.
4. STAKING/ GUYING IS NOT ANTICIPATED TO BE REQUIRED (NOR IS IT DESIRED), BUT IF STAKING/GUYING BECOMES NECESSARY, AS DETERMINED BY THE ENGINEER, THE STAKING/GUYING SHALL BE DONE IN ACCORDANCE WITH THE STANDARD TREE STAKING/ GUYING DETAIL.

2 / L32 STANDARD TREE STAKING / GUYING

SCALE IN METRIC: N.T.S.

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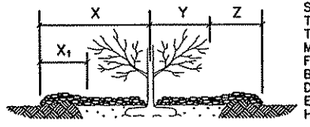
○ – INDICATES PROJECT LOCATION

	SPRING			FALL	
	SEEDLING	DECIDUOUS	EVERGREEN	DECIDUOUS	EVERGREEN
1	APRIL 15 TO MAY 15	APRIL 21 TO JUNE 1	APRIL 21 TO JUNE 1	OCT. 1 TO NOV. 1	AUG. 25 TO SEPT. 15
2	APRIL 7 TO MAY 15	APRIL 14 TO JUNE 1	APRIL 14 TO MAY 24	OCT. 1 TO NOV. 6	AUG. 25 TO SEPT. 15
3	APRIL 1 TO MAY 15	APRIL 7 TO JUNE 1	APRIL 7 TO MAY 17	OCT. 10 TO NOV. 15	AUG. 25 TO SEPT. 15
4	APRIL 1 TO MAY 15	APRIL 1 TO MAY 25	APRIL 1 TO MAY 15	OCT. 15 TO NOV. 20	SEPT. 5 TO OCT. 1

NOTES:
1. SEEDLING INCLUDES DECIDUOUS AND EVERGREEN STOCK.
2. ACTUAL DATES MAY CHANGE DEPENDING UPON SEASONAL CONDITIONS AS DETERMINED BY THE ENGINEER.
3. FALL PLANTING MAY NOT BE RECOMMENDED OR ALLOWED. SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS. THE FOLLOWING PLANTS ARE NOT RECOMMENDED FOR FALL INSTALLATION. HAWTHORNE, RUSSIAN OLIVE, DOGWOOD, POPLAR, HACKBERRY, LINDEN, IRONWOOD, HONEYLOCUST, BIRCH, MOUNTAIN ASH, MAPLE, WILLOW, CRABAPPLE, PLUM/CHERRY, OAKS,SUMAC.

3 / L32 OPTIMUM PLANTING DATE ZONES IN MINNESOTA

SCALE IN METRIC: N.T.S.



SUBSIDENCE OR DETERIORATION OF MULCH THROUGHOUT THE CONTRACT IS ACCEPTABLE TO THE EXTENT THAT THE MULCH DEPTH IS MAINTAINED AT A MINIMUM DEPTH OF 75 mm AT ALL TIMES AND UPON FINAL ACCEPTANCE. REPLACEMENT MULCH SHALL BE REQUIRED TO PROVIDE THE MINIMUM MULCH DEPTH SPECIFIED WHEN SUBSIDENCE OR LOSS IS EXCESSIVE OR WHEN THE CONTRACTOR'S OPERATIONS HAVE CONTAMINATED THE MULCH WITH SOIL.

TYPE OF PLANT	X CENTER OF PLANT TO MULCH LINE	X_1 EDGE OF BRANCHING TO MULCH LINE	Y DEPTH OF MULCH (mm) MIN.	Y MAX.	Z DEPTH OF MULCH (mm) MIN.	Z MAX.
EVERGREEN TREES	VARIES	0.9 m MIN.	100	150	100	150
DECIDUOUS TREES	0.9 m MIN.	N/A	100	150	100	150
DECIDUOUS SHRUBS	0.9 m MIN.	N/A	100	150	100	150
GROUNDCOVERS	VARIES	0.6 m MIN.	75	100	75	100

NOTE:
REMOVE MULCH PLACED TO A DEPTH GREATER THAN THAT SPECIFIED WHEN DIRECTED BY THE ENGINEER.

4 / L32 MULCH PLACEMENT DETAIL

SCALE IN METRIC: N.T.S.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: 242wd04
DATE: NOVEMBER 5,1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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DATE: 11/5/99 MINN. REG. NO. 24900

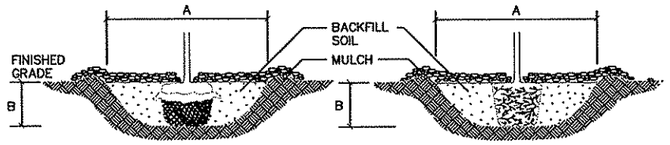
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLANTING DETAILS

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
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S.A.P.	114 – 136 – 02
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SHEET NO. 287 / 539

PLOT DATE: Jan 08, 2004 7:27pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\...NING\DETAILS\242wd04.dwg



BALLED & BURLAPPED STOCK

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY ENGINEER.
3. SET PLANT ON UNDISTURBED NATIVE SOIL, OR THOROUGHLY COMPACTED BACKFILL SOIL AT THE SAME DEPTH (IF PROPER) AS IT WAS GROWN IN THE NURSERY.
4. PLANT SHALL BE PLACED IN PLANTING HOLE WITH BURLAP AND WIRE BASKET, IF USED, INTACT. ONCE IN PLACE, THE PLANT SHALL BE BACKFILLED TO WITHIN 300 mm OF THE TOP OF THE ROOTBALL AND WATERED. THE TOP LOOPS OF THE WIRE BASKETS SHALL BE REMOVED AND THE BURLAP SHALL BE FOLDED OR CUT BACK.
5. PLUMB AND BACKFILL WITH THE BACKFILL SOIL SPECIFIED.
6. APPLY WATER TO SETTLE PLANTS AND FILL VOIDS THEN CONSTRUCT 75 mm DEPTH WATERING BASIN.
7. WATER THOROUGHLY WITHIN 2 HOURS.
8. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
9. BIODEGRADABLE TWINE MAY BE LEFT ON AS SUPPORT BETWEEN THE ROOT BALL AND ROOT COLLAR UNTIL THE ENDOF THE PLANT ESTABLISHMENT PERIOD AT WHICH TIME IT MUST BE CUT AND TOTALLY REMOVED FROM THE ROOT COLLAR, THE TWINE MUST BE TIED OR RETIED TO MID-LEVEL LOOPS OR POINTS ON THE BASKET. USE OF NONBIODEGRADABLE TWINE SHALL NOT BE PERMITTED.

CONTAINER STOCK

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY ENGINEER.
3. REMOVE CONTAINER AND SCORE OR PRUNE OUTSIDE OF SOIL MASS TO REDIRECT CIRCLING FIBROUS ROOTS AS NECESSARY.
4. SET PLANT ON UNDISTURBED NATIVE SOIL, OR THOROUGHLY COMPACTED BACKFILL SOIL AT THE SAME DEPTH (IF PROPER) AS IT WAS GROWN IN THE NURSERY.
5. APPLY WATER TO SETTLE PLANTS AND FILL VOIDS THEN CONSTRUCT 75 mm DEPTH WATERING BASIN.
6. WATER THOROUGHLY WITHIN 2 HOURS.
7. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

NOTES:

1. THE PLANTING DETAILS REPRESENT ADEQUATELY DRAINED SOIL CONDITIONS, THE CONTRACTOR SHOULD EXERCISE DISCRETION IN SETTING PLANTS 25 mm – 75 mm HIGHER IN POORLY DRAINED SOILS.
2. ON 2:1 SLOPES OR GREATER, DO NOT CONSTRUCT THE UPHILL HALF OF THE WATERING BASIN.
3. ON WET, POORLY DRAINED SOILS, DO NOT CONSTRUCT WATERING BASIN.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE DRAINAGE IN HEAVY POORLY DRAINED OR IMPERVIOUS SOILS.
5. PLANTS SHOULD BE SET AT THE PROPER DEPTH WHEREBY THE BEGINNING TAPER OF THE ROOT FLARE IS AT THE SAME ELEVATION AS THE FINISHED SOIL GRADE. THIS SHOULD BE THE SAME DEPTH AS THE PLANTS WERE GROWN AT IN THE NURSERY. NOTE THAT THE ROOTS OF BALLED AND BURLAPPED PLANTS ARE UNACCEPTABLE WHEN THEY ARE COVERED BY MORE THAN 100 mm OF SOIL IN THE TOP OF THE BALL.
6. DELAY MULCH PLACEMENT IF NECESSARY TO ALLOW MORE TIME FOR EXCESS SOIL MOISTURE TO EVAPORATE FROM PLANTING AREAS BEFORE PLACING MULCH.

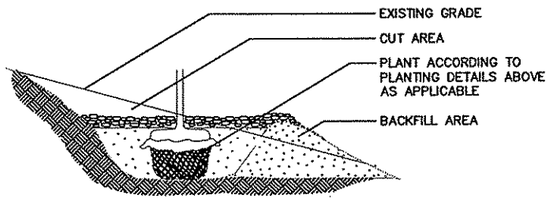
1 / L33 PLANTING DETAILS FOR ISOLATED PLANTING LOCATIONS

SCALE IN METRIC: N.T.S.

PLANTING HOLE DIMENSIONS

(MINIMUM WIDTH DOES NOT APPLY IN MASS PLANTING BEDS)

PLANT TYPE	PLANT SIZE (UP TO AND INCLUDING)	MINIMUM HOLE WIDTH (mm) A	APPROXIMATE HOLE DEPTH (mm) B
EVERGREEN TREES	1.8 m HT. BB	1680	400
SHADE & FLOWERING TREES	25 mm BB	1370	360
	40 mm BB	1680	380
	50 mm BB	1829	406
	60 mm BB	2134	483
DECIDUOUS SHRUBS	800 mm POT	1067	279
CONTAINER GROWN PLANTS	150 mm CONT.	330	250

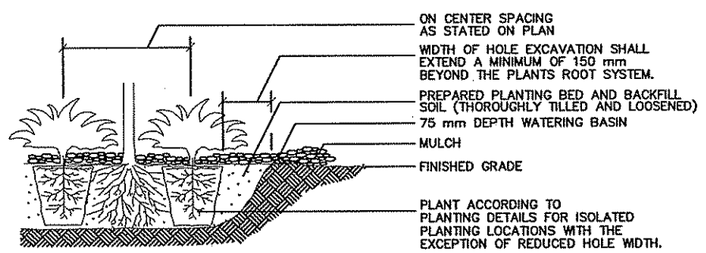


NOTE:

1. EXTENDED EXCAVATION AND BACKFILL SOIL TO A POINT DOWNSLOPE EQUAL TO OR LOWER IN ELEVATION THAN THE BOTTOM OF THE HOLE DIRECTLY BENEATH THE PLANT TO INSURE ADEQUATE DRAINAGE IN HEAVY SOILS. GRANULAR SOIL MUST BE ADDED AS BACKFILL IN AREAS OF POOR DRAINAGE.

2 / L33 PLANTING DETAIL FOR STEEP SLOPES

SCALE IN METRIC: N.T.S.



3 / L33 PLANTING DETAIL FOR MASS PLANTING BEDS

SCALE IN METRIC: N.T.S.

GENERAL NOTES – SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS

PLANTING HOLE AND BED CULTIVATION: ALL ISOLATED TREE PLANTING LOCATIONS AND PLANTING BEDS SHALL BE CULTIVATED BY TILLING TO A MINIMUM DEPTH OF 250 mm. SOIL AMENDMENTS SHALL BE APPLIED DURING CULTIVATION.

BACKFILL SOIL: USE CULTIVATED AND AMENDED SOIL EXCAVATED FROM PLANTING HOLES. REMOVE ALL DEBRIS INCLUDING ROCKS LARGER THAN 75 mm DIA.

FERTILIZER: ___ NONE
_X_ MN/DOT 3881

COMPOST: ___ NONE
_X_ Mn/DOT 3890

MULCH MATERIAL: Mn/DOT 3882 TYPE 6. MULCH IS CONSIDERED AN INCIDENTAL COST TO ALL TREES, SHRUBS AND PERENNIALS.

TREE STAKING: TREE STAKING (ALL SIZES) WILL NOT BE REQUIRED UNLESS SPECIFIED OR NECESSARY TO MAINTAIN TREES IN A PLUMB CONDITION WHERE VANDALISM, SOIL, OR WIND CONDITIONS ARE A PROBLEM OR AS REQUESTED BY THE ENGINEER. COST OF TREE STAKING IS CONSIDERED INCIDENTAL.

TREE PROTECTION: 102 mm WIDE TREE WRAP AS APPROVED BY ENGINEER

MASS PLANTINGS: CULTIVATE BY TILLING. PROVIDE 1 m RADIUS CLEAR OF SHRUBS AROUND EACH DECIDUOUS TREE AND 2.4 m RADIUS AROUND EACH EVERGREEN TREE. THIS RADIUS (CLEARANCE) SHALL BE MEASURED FROM THE CENTER OF THE TREE TO THE CENTER OF THE SHRUB. NOTIFY ENGINEER OF GROSS PLANT QUANTITY SURPLUS OR DEFICIENCY IMMEDIATELY. PLANT SPACINGS OF 3 m OR LESS SHALL BE MASS MULCHED.

PLANTING PLAN: RESPECT STATED DIMENSIONS BEFORE SCALING FROM PLAN.

WATERING GUIDELINES:

PLANT TYPE	AVERAGE AMOUNT OF WATER PER APPLICATION (LITERS)
BALLED & BURLAPPED TREES	75±
BARE ROOT TREES	55±
BALLED & BURLAPPED SHRUBS	40±
BARE ROOT OR CONTAINER SHRUBS	25±
WOODY SEEDLINGS	15±
HERBACEOUS GROUNDCOVERS AND VINES	10±

1) THE WATERING GUIDELINES ASSUME A SOIL CONDITION WITH ADEQUATE BUT NOT EXCESSIVE OR POOR DRAINAGE. WATERING INTERVALS AND AMOUNT OF APPLICATION MUST BE VARIED CONSIDERING PREVAILING SOIL MOISTURE AND WEATHER CONDITIONS THROUGHOUT THE GROWING SEASON. ADEQUATE BUT NOT EXCESSIVE SOIL MOISTURE IN THE ROOT ZONE OF NEW PLANTINGS MUST BE MAINTAINED AT ALL TIMES THROUGHOUT THE GROWING SEASON FOR THE FIRST TWO YEARS FOLLOWING PLANTING. WATERING MAY BE REQUIRED WEEKLY OR INFREQUENTLY. THIS DETERMINATION SHALL BE MADE BY THE CONTRACTOR.

2) THE CONTRACTOR IS ADVISED THAT THE WATERING GUIDELINES ARE NOT REQUIREMENTS OF THE CONTRACT ALTHOUGH FAILURE TO CORRECT WATER DEFICITS BY SUPPLEMENTAL WATERING OR FAILURE TO COMPENSATE FOR EXCESSIVE SOIL MOISTURE AND DRAINAGE PROBLEMS MAY RESULT IN UNACCEPTABLE PLANTS LEADING TO REDUCED OR NO PAYMENT.

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L33 OF 33

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: TPH | DWG. NAME: 242wd05
DATE: NOVEMBER 5, 1999

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BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
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DATE: 11/5/99 MINN. REG. NO. 24900

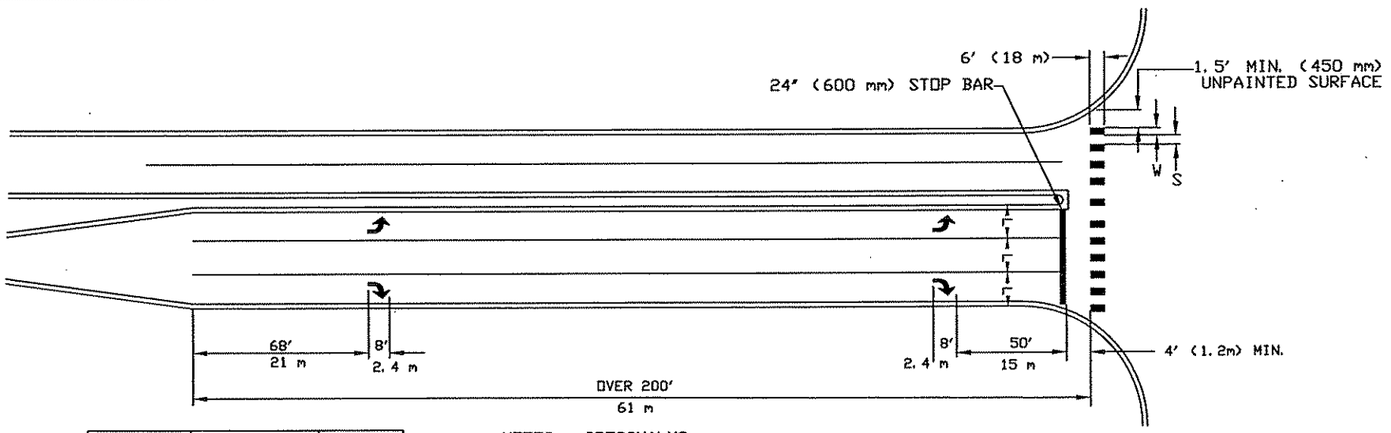
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
PLANTING DETAILS

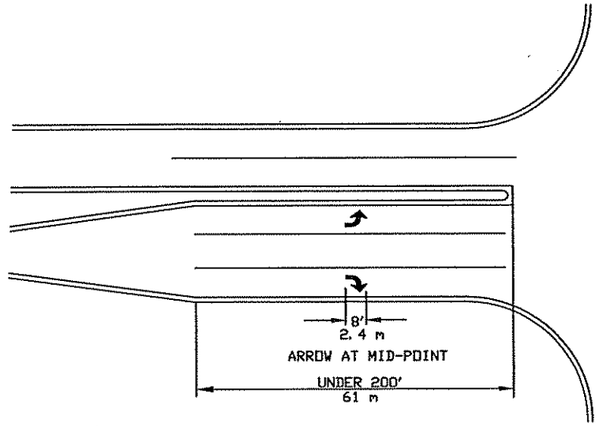
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
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SHEET NO. 288 / 539

PLOT DATE: Jan 08, 2000 7:29pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\...NING\DETAILS\242wd05.dwg





(L) WIDTH OF INSIDE LANE	(W) WIDTH OF PAINTED AREAS	(S) WIDTH OF SPACE
9'	2.0'	2.5'
10'	2.5'	2.5'
11'	2.5'	3.0'
12'	3.0'	3.0'
13'	3.0'	3.5'

(L) WIDTH OF INSIDE LANE	(W) WIDTH OF PAINTED AREAS	(S) WIDTH OF SPACE
2.7 m	600 mm	750 mm
3.0 m	750 mm	750 mm
3.3 m	750 mm	900 mm
3.6 m	900 mm	900 mm
4.0 m	900 mm	1100 mm

NOTES: CROSSWALKS:

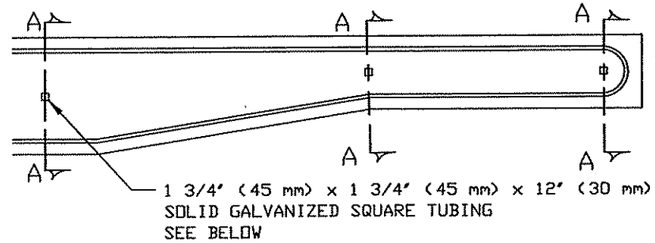
1.) PAINTED AREAS ARE TO BE CENTERED ON CENTER AND LANE LINES, EVEN IF INTERSECTION IS NOT ALIGNED.

2.) LOCATION OF ZEBRA CROSSWALKS AND STOP BARS, SIGNAL LOOPS AND PED RAMPS ARE APPROXIMATE. FINAL LOCATIONS ARE TO BE DETERMINED AND FIELD VERFIED DURING CONSTRUCTION BY THE FIELD ENGR.

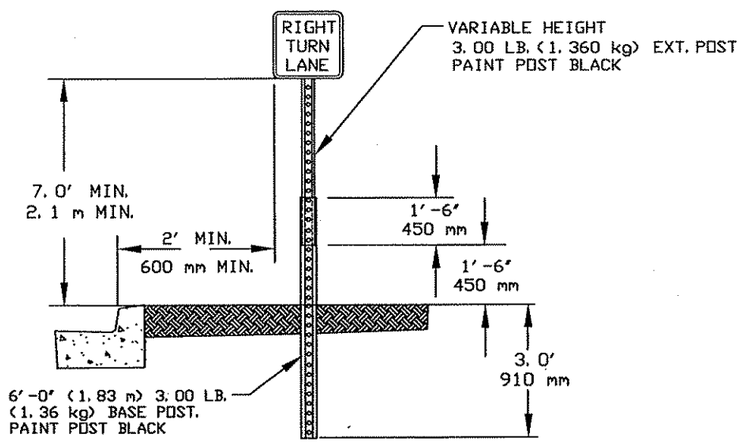
3.) ZEBRA CROSSWALKS ARE TO BE PARALLEL TO THE DRIVING LANE OR LANES, EVEN IF THE STREET IS ON AN ANGLE TO THE INTERSECTION.

4.) A MIN. OF 1.5' (450 mm) CLEAR DISTANCE MUST BE LEFT ADJACENT TO THE CURB. IF LAST PAINTED AREA FALLS INTO THIS AREA, IT MUST BE OMITTED.

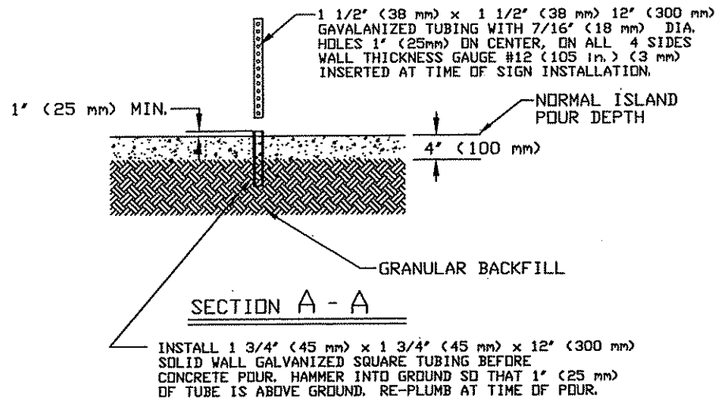
5.) ON TWO LANE STREETS, USE SPACING SHOWN FOR AN 11' (3.3 m) INSIDE LANE.



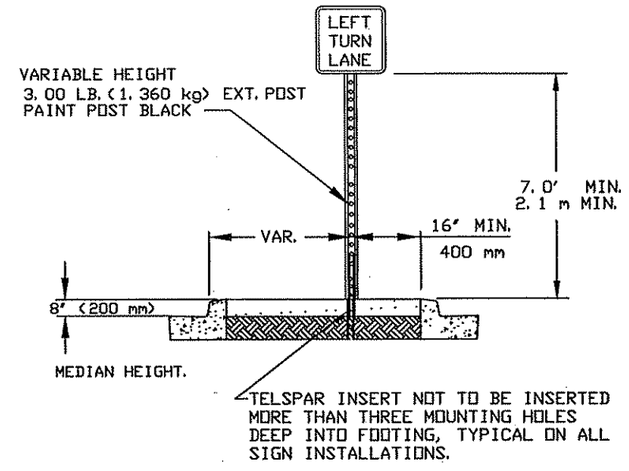
TYPICAL TURN LANE AND INTERSECTION STRIPING
MAIN ST. (C.S.A.H. 14) and COON CREEK BLVD. (C.S.A.H. 18)



GROUND POST MOUNTED SIGN
TYPICAL INSTALLATION
MAIN ST. (C.S.A.H. 14) and
COON CREEK BLVD. (C.S.A.H. 18)



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ISLAND MOUNT BREAK-AWAY SIGN
TYPICAL INSTALLATION
MAIN ST. (C.S.A.H. 14) and
COON CREEK BLVD. (C.S.A.H. 18)

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: JJL/BDB
CHKED. BY: PBD/KPK | DWG. NAME: 242SGDT2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

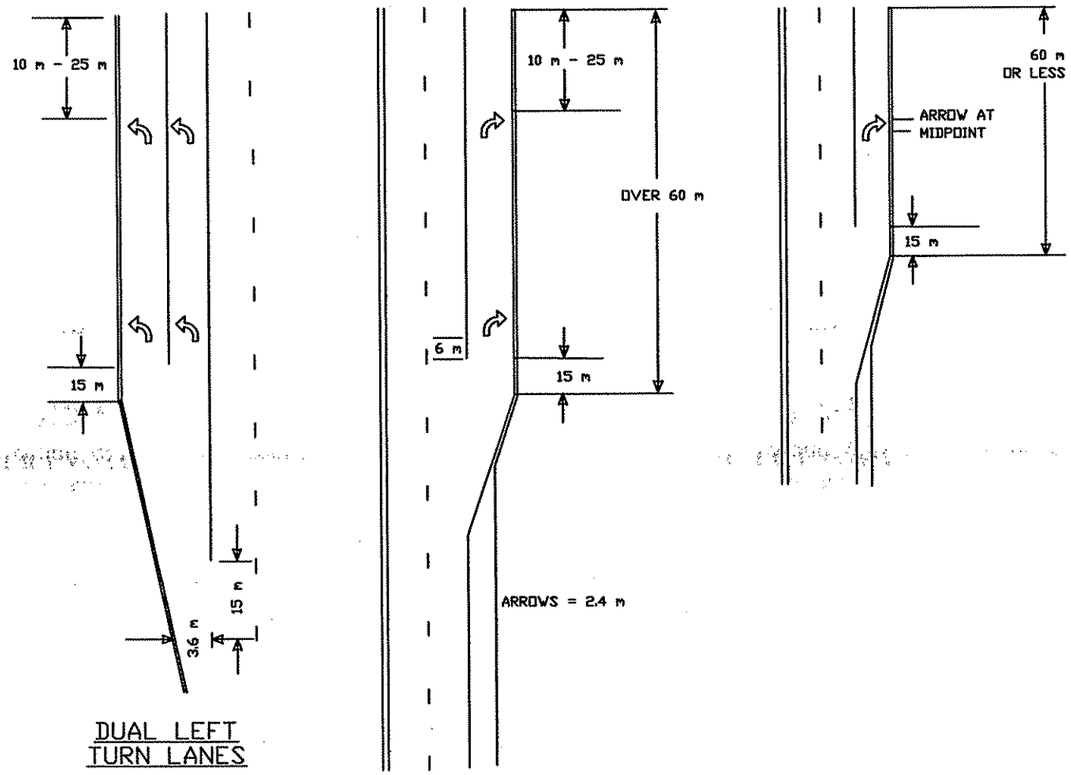
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14) AND
COON CREEK BOULEVARD (C.S.A.H. 18)
SIGNING AND STRIPING DETAILS
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02-614-19
S.A.P.	02-618-24
S.P.	114-010-11
S.A.P.	114-020-19
S.A.P.	114-136-02
S.A.P.	114-127-02

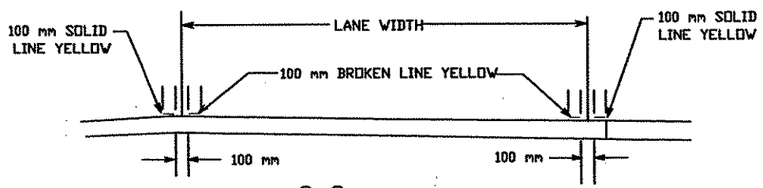
SHEET NO. 289 / 539

PLOT DATE: Apr 0...004 3:10pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...NGRING\242SGDT2.dwg

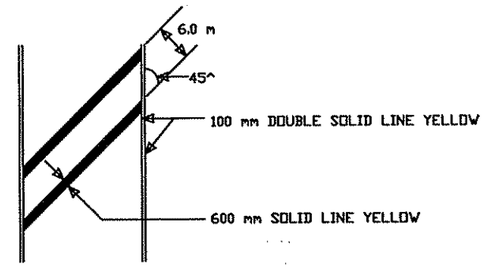
TYPICAL MESSAGE PLACEMENT FOR TURN LANES
TH 242, NORTHDALE BOULEVARD, 124th AVE. NW and INTERCHANGE RAMPS



DUAL LEFT
TURN LANES

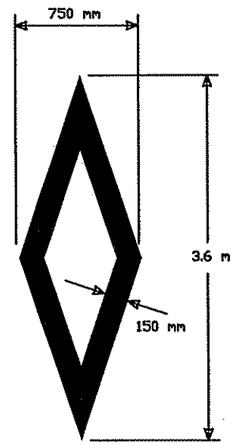


C-C
TWO WAY LEFT TURN LANE



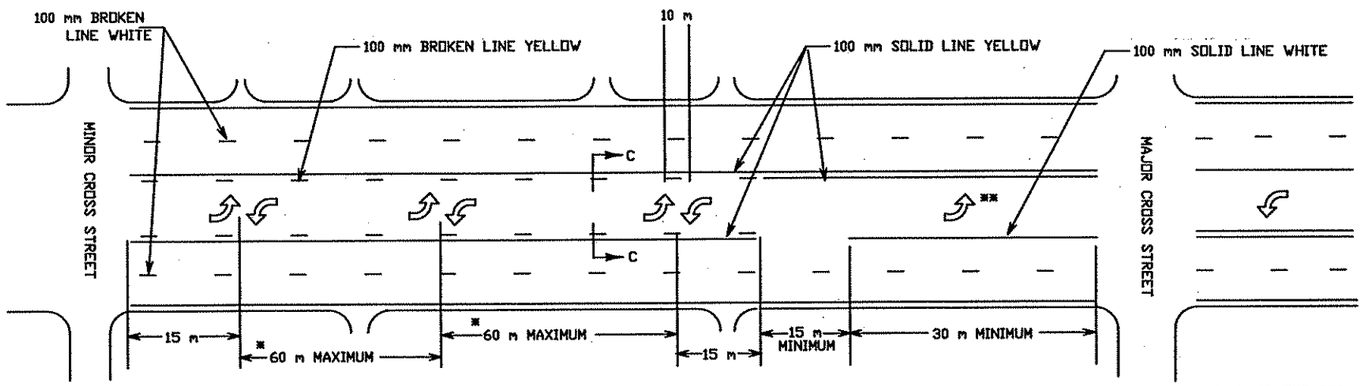
NOTES:

1. AT SPEEDS LESS THAN 40 MPH THE WIDTH OF THE CROSSHATCH LINE MAY BE REDUCED TO 300 mm.
2. AT SPEEDS OVER 40 MPH THE SPACING MAY BE INCREASED TO 10 m BETWEEN CROSSHATCH LINES.



WHITE HOV
PAVEMENT MARKER

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* THESE DISTANCES SHOULD BE EQUAL. THE ARROWS ARE PLACED TO SHOW THE OPERATION AND DO NOT HAVE TO LINE UP WITH ANY OF THE DRIVEWAYS.

TWO WAY LEFT TURN LANE

** SEE "TYPICAL MESSAGE PLACEMENT FOR TURN LANES" FOR NUMBER AND PLACEMENT OF ARROWS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: PDB
CHKED. BY: KPK | DWG. NAME: SGN9416
DATE: NOVEMBER 5, 1999

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BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)
PAVEMENT MARKING DETAILS
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 290 / 539

PLOT DATE: Aug 03, 2004 10:24am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\DETAILS\s...9416.dwg

F DRAWINGS

SAPBOX

NOTES & GUIDELINES

GENERAL INFORMATION:

THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD CONSULTATION AND INSPECTION. THE CONTRACTOR WILL PLACE NECESSARY "SPOTTING" AT APPROPRIATE POINTS TO PROVIDE HORIZONTAL CONTROL FOR STRIPING AND TO DETERMINE NECESSARY STARTING AND CUTOFF POINTS. LONGITUDINAL JOINTS, PAVEMENT EDGES AND EXISTING MARKINGS MAY SERVE AS HORIZONTAL CONTROL WHEN SO DIRECTED.

EDGE LINES AND LANE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES OR CROSSWALKS.

A TOLERANCE OF 1/4 INCH UNDER OR 1/4 INCH OVER THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE. BROKEN LINE SEGMENTS MAY VARY UP TO ONE-HALF FOOT FROM THE SPECIFIED LENGTHS PROVIDED THE OVER AND UNDER VARIATIONS ARE REASONABLY COMPENSATORY. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 1 INCH. MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS. ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.

EPOXY:

THE ROAD SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER JUST PRIOR TO APPLICATION. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER. NEW PORTLAND CEMENT CONCRETE SURFACES SHALL BE SANDBLAST CLEANED TO REMOVE ANY SURFACE TREATMENTS AND/OR LAITANCE. ON LOW SPEED (SPEED LIMIT 35 OR LESS) URBAN PORTLAND CEMENT CONCRETE ROADWAYS, SANDBLAST CLEANING SHALL BE USED FOR ALL EPOXY PAVEMENT MARKINGS.

THE EPOXY MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING. GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE EPOXY RESIN LINE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.

AN EPOXY RESIN LINE 4" WIDE AND 15 MILL THICKNESS (WET), REQUIRES AN APPLICATION RATE OF ONE (1) GALLON OF COMPONENTS FOR 320 FEET OF LINE. GLASS BEADS SHALL BE APPLIED AT A POUND PER GALLON RATE SUFFICIENT TO ACHIEVE AN ACCEPTABLE NO-TRACK SYSTEM.

OPERATIONS SHALL BE CONDUCTED ONLY WHEN THE ROAD PAVEMENT SURFACE TEMPERATURES ARE 50 DEGREES F^ OR GREATER.

PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.

PAINT:

AT THE TIME OF APPLYING THE MARKING MATERIAL, THE APPLICATION AREA SHALL BE FREE OF CONTAMINATION. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE PRIOR TO THE LINE APPLICATION IN A MANNER AND TO THE EXTENT REQUIRED BY THE ENGINEER.

GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE PAINT LINE.

EXCEPT WHEN USED AS A TEMPORARY MARKING, PAVEMENT MARKINGS SHALL ONLY BE APPLIED IN SEASONABLE WEATHER WHEN AIR TEMPERATURE IS 50^F OR HIGHER AND SHALL NOT BE APPLIED WHEN THE WIND OR OTHER CONDITIONS CAUSE A FILM OF DUST TO BE DEPOSITED ON THE PAVEMENT SURFACE AFTER CLEANING AND BEFORE THE MARKING MATERIAL CAN BE APPLIED.

THE FILLING OF TANKS, POURING OF MATERIALS OR CLEANING OF EQUIPMENT SHALL NOT BE PERFORMED ON UNPROTECTED PAVEMENT SURFACES UNLESS ADEQUATE PROVISIONS ARE MADE TO PREVENT SPILLAGE OF MATERIAL.

POLY PREFORM INLAY APPLICATION:

MAT TEMPERATURE SHALL BE CHECKED USING A THERMOMETER TO MAKE SURE THE INLAY IS BEING DONE IN THE PROPER TEMPERATURE RANGE. THE TEMPERATURE SHOULD MEASURE BETWEEN 150^ F (ASPHALT FIRM ENOUGH TO WALK ON) AND 120^ F. APPLICATION BELOW 120^ F MAY NOT GET A PROPER INLAY. INLAYS ARE NOT RECOMMENDED AFTER SEPTEMBER 15th AS THE ASPHALT COOLS TOO FAST AT THIS TIME OF THE YEAR.

NO PRIMERS ARE USED FOR INLAY APPLICATION. DO NOT INSTALL LANE LINES ON AN ASPHALT SEAM. ROLLING OF ALL THE MARKINGS SHOULD BE LENGTHWISE IN THE DIRECTION THEY WERE LAID. FOR CROSSWALKS AND STOP BARS, INITIAL TAMPING WITH THE TAMPING CART IS RECOMMENDED USING ONLY 100 LBS. OF WEIGHT.

USE COMPACTION ROLLER TO EMBED (INLAY) MARKINGS INTO PAVEMENT SURFACE. USE MINIMUM SPEED AND WATER ON ROLLER. DO NOT USE VIBRATOR. IF MARKING BUCKLES OR DISTORTS SEVERELY IN FRONT OF ROLLER, MAT TEMPERATURE OR ROLLER SPEED MAY BE TOO HIGH.

POLY PREFORM OVERLAY APPLICATION (ONLY IF SPECIFIED OR AUTHORIZED BY THE ENGINEER):

TEMPERATURE REQUIREMENTS
- MINIMUM AIR TEMPERATURE 60^ F (16^C) AND RISING
- MINIMUM PAVEMENT TEMPERATURE 70^ F (21^C) AND RISING
- MINIMUM OVERNIGHT TEMPERATURE 60^ F (16^C) AND RISING
- NO OVERLAY APPLICATIONS AFTER SEPTEMBER 1.

SURFACE PREPARATION

A. NEW CONCRETE (LESS THAN 3 MONTHS OLD)
   1. REMOVE CURING COMPOUND BY SANDBLASTING, HYDROBLASTING OR SHOT BLASTING WHERE TAPE IS TO BE APPLIED (HYDROBLASTING LEAVES SURFACE WET, TIME SHALL BE ALLOWED FOR PAVEMENT TO DRY)
   2. SWEEP OR BLOW THE BLASTED AREAS
   3. APPLY REQUIRED PRIMER
B. ASPHALT- LESS THAN 11 DAYS OLD
   1. ALL - SWEEP OR BLOW CLEAN
   2. 0 - 3 DAYS OLD - NO PRIMER
   3. 4 - 10 DAYS OLD - STAMARK™ SP44 ONLY
   4. 11+ DAYS - STAMARK™ E44 OR SP44 DEPENDING ON APPLICATION. SEE MANUFACTURERS SPECIFICATION
C. OLD CONCRETE
   1. SWEEP OR BLOW CLEAN
   2. APPLY REQUIRED PRIMER
D. OLD MARKINGS
   1. DO NOT APPLY OVER PAINT, EPOXY, OR THERMOPLASTIC UNLESS WELL WORN AND WELL ADHERED TO THE ROAD. OLD MARKINGS MUST BE AT LEAST 75%-80% WORN AWAY.
   2. GRIND OR SANDBLAST OLD MARKINGS AND SWEEP OR BLOW SURFACE CLEAN
   3. APPLY REQUIRED PRIMER
E. WORN STAMARK™ MARKINGS
   1. OK TO APPLY NEW MATERIAL OVER WORN STAMARK™. REMOVE ALL LOOSE MATERIAL WITH SCRAPER OR KNIFE.
   2. SWEEP OR BLOW SURFACE CLEAN
   3. APPLY REQUIRED PRIMER

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: PDB
CHKED. BY: KPK | DWG. NAME: MNTYP-01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

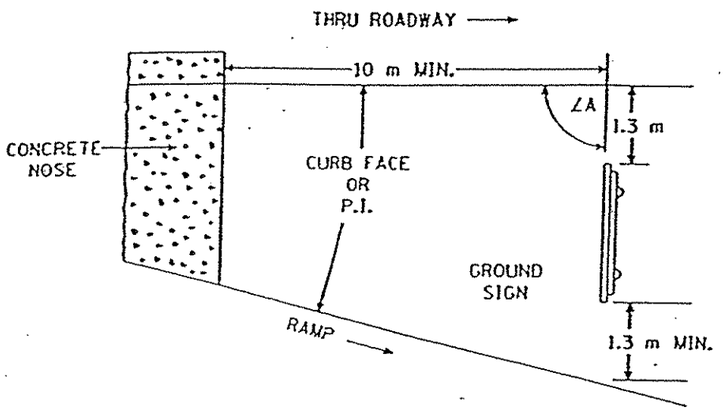
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)
PAVEMENT MARKING DETAILS
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
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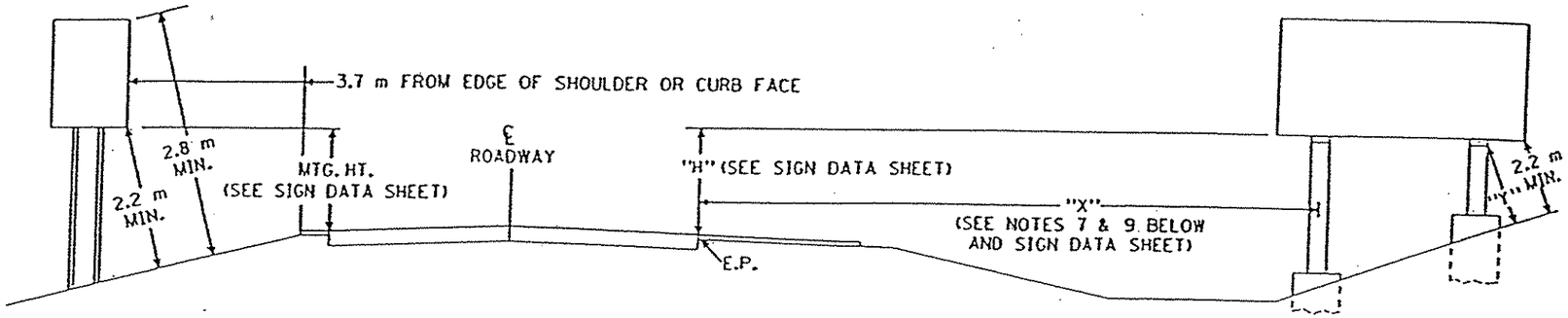
SHEET NO. 291 / 539

PLOT DATE: Aug 03, 04 10:26am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\DETAILS\Mn_-01.dwg

GORE PLACEMENT



ROADSIDE PLACEMENT



ROUTE MARKER, REGULATORY & WARNING SIGNS - TYPE "C"
MINOR GUIDE SIGNS - TYPE "D"

MAJOR GUIDE SIGN - TYPE "A"

NOTES:

1. IF A SECONDARY SIGN IS MOUNTED BELOW A MAJOR SIGN, THE MAJOR SIGN SHALL BE AT LEAST 2.5 m ABOVE THE PAVEMENT EDGE AND THE SECONDARY SIGN AT LEAST 1.6 m.
2. ALL ROUTE MARKERS, WARNING AND REGULATORY SIGNS SHALL BE AT LEAST 1.9 m ABOVE PAVEMENT EDGE EXCEPT WHERE HEAVY PEDESTRIAN TRAFFIC IS ENCOUNTERED THEY SHALL BE 2.2 m.
3. SIGN FACES SHALL BE VERTICAL.
4. OVERHEAD SIGNS SHALL BE POSITIONED AT RIGHT ANGLES TO THE THRU ROADWAY UNLESS OTHERWISE NOTED.
5. TO AVOID SPECULAR GLARE, ∠A SHALL BE APPROXIMATELY 93° FOR SIGNS LOCATED LESS THAN 9 m FROM THE EDGE OF PAVEMENT AND APPROXIMATELY 92° FOR SIGNS LOCATED 9 m OR MORE FROM EDGE OF PAVEMENT. THIS APPLIES TO SIGNS TYPE "A", "C", & "D" AND INCLUDES SIGNS IN THE GORE.
6. "Y" IS THE PERPENDICULAR DISTANCE FROM THE GROUND LINE TO THE FRICTION FUSE ON THE POST. THIS DISTANCE SHALL BE AT LEAST 2.2 m.
7. WHERE "X" IS LESS THAN 9 m, "H" SHALL BE 2.2 m +150 mm. WHERE "X" IS 9 m OR GREATER, MINIMUM AND PREFERED "H" IS 1.5 m.
8. LATERAL CLEARANCES GIVEN APPLY TO RIGHT AND OR LEFT SIDE INSTALLATION.
9. WHEN A TYPE A SIGN IS INSTALLED DIRECTLY BEHIND TRAFFIC BARRIER, THE LEFT EDGE OF THE SIGN PANEL SHALL BE LOCATED A MINIMUM OF 1.3 m BEHIND THE FACE OF THE TRAFFIC BARRIER.

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SIGN PLACEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	SAW	7/19/00	MOD. REQ. #2: REVISED NOTE 7

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: PDB
CHKED. BY: KPK | DWG. NAME: SGNPLACE
DATE: NOVEMBER 5, 1999

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THRESHER SQUARE 700 THIRD STREET SOUTH MINNEAPOLIS, MN 55415 (612)370-0700 (TEL) (612)370-1378 (FAX)

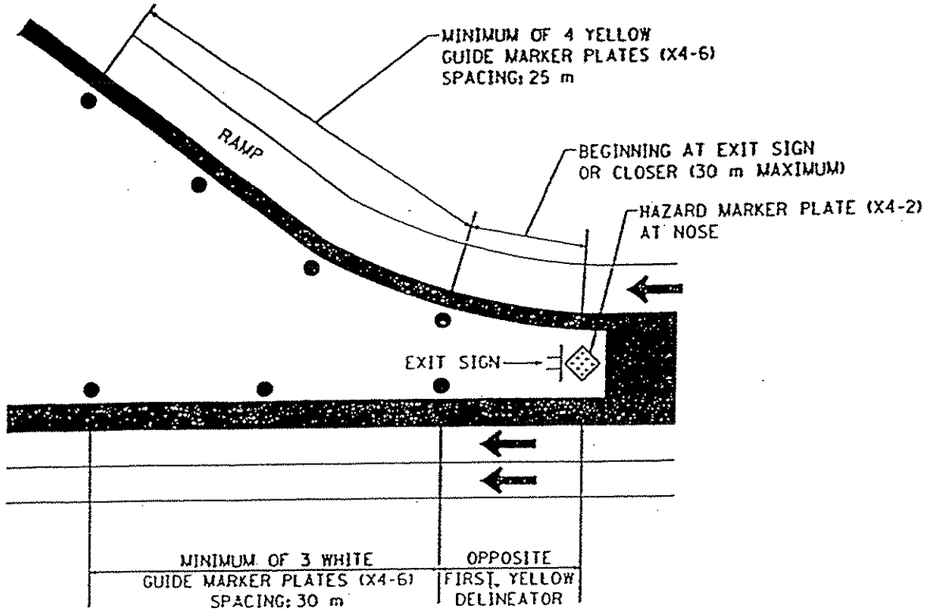
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Kevin P Kilb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)
SIGN PLACEMENT DETAILS
CITY PROJECT 98-20

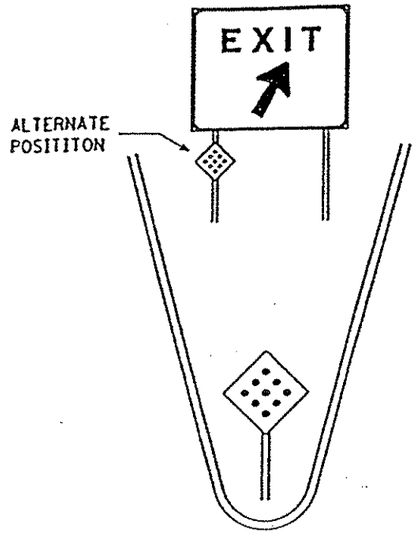
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02-614-19
S.A.P.	02-618-24
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S.A.P.	114-020-19
S.A.P.	114-136-02
S.A.P.	114-127-02

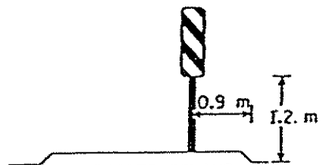
SHEET NO. 292 / 539

PLOT DATE: Jul 19 2000 2:24pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\...9E\DETAILS\Sgnplace.dwg

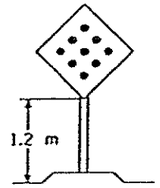


PLAN A
RAMP DELINEATION

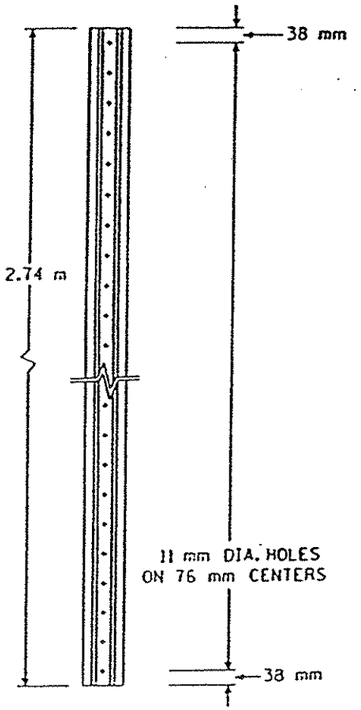




RAISED ISLAND
CLEARANCE MARKER
(X4-4)

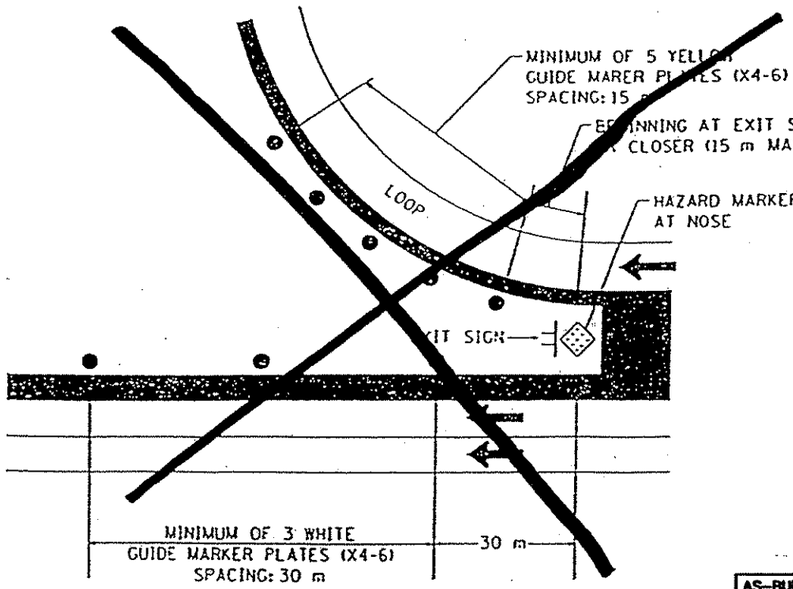


RAISED ISLAND
HAZARD MARKER PLATE
(X4-2)

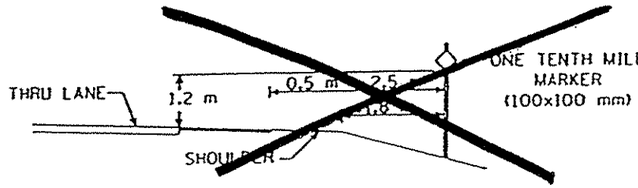


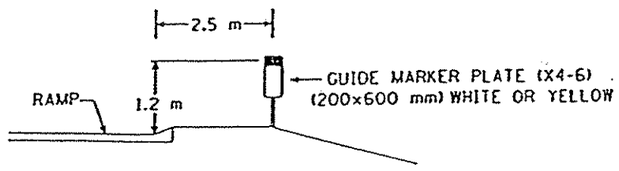
MN/DOT 3401
NORMAL WEIGHT= 3.0 kg/m

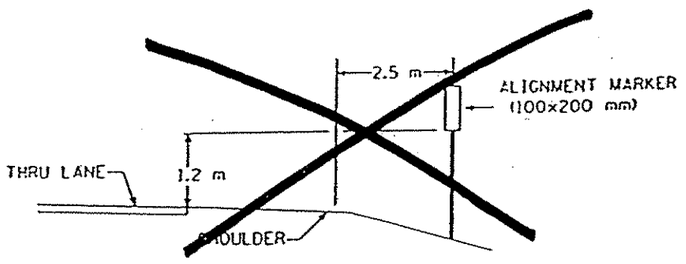
DELINEATOR POST



PLAN B
LOOP DELINEATION







TYPICAL PLACEMENT

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DELINEATORS AND MARKERS

Revised 1-16-98

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: PDB
CHKED. BY: KPK | DWG. NAME: SGNPLACE
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)

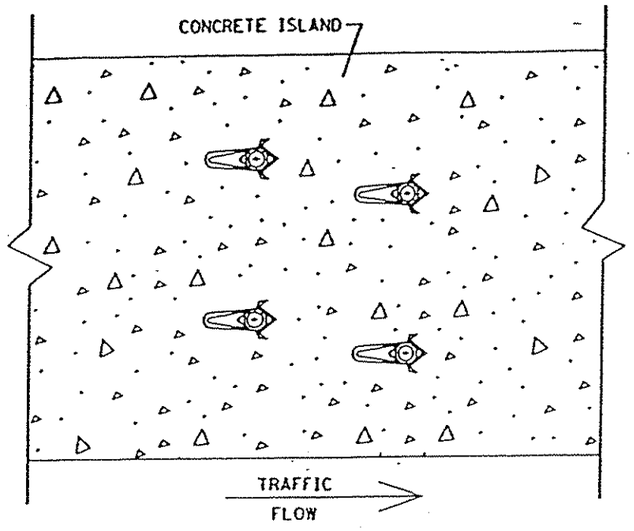
DELINEATORS AND MARKERS

CITY PROJECT 98-20

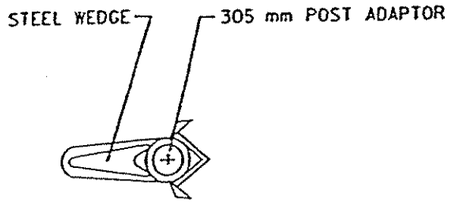
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 293 / 539

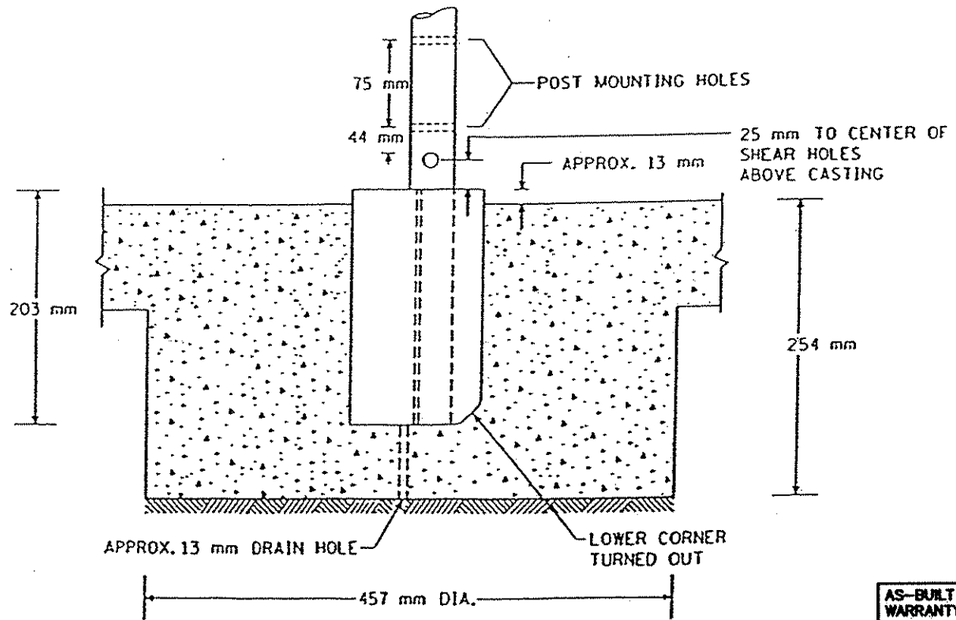
PLOT DATE: Dec. 99 8:41am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\DETAILS\...ce.dwg



TOP VIEW
2 POSTS SIGN WITH 2 KNEE BRACES



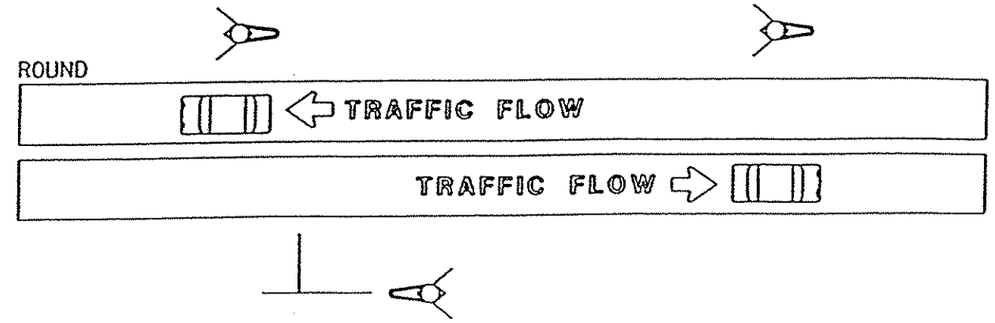
TOP VIEW - LOCKING DEVICE



ELEVATION VIEW

ROADSIDE OR MEDIAN PLACEMENT FOR ROUND AND U CHANNEL SOCKETS

THE AXIS OF THE SIGNPOST SUPPORT WEDGE SHOULD ALIGN PARALLEL TO THE ROAD FOR MAXIMUM RESISTANCE TO IMPACT AS SHOWN BELOW:



GENERAL NOTES:

1. SEAL BOTTOM OF SIGNPOST SUPPORT WITH DUCT TAPE BEFORE INSTALLATION IN NEW CONCRETE.
2. SIGNPOST SUPPORTS SHALL BE INSTALLED PLUMB AND APPROXIMATELY 13 mm ABOVE THE TOP OF THE CONCRETE SURFACE.

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SIGNPOST SUPPORT IN CONCRETE

Revised 1-27-98

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CHKD. BY: KPK | DWG. NAME: SGNPLACE
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO.: 23211

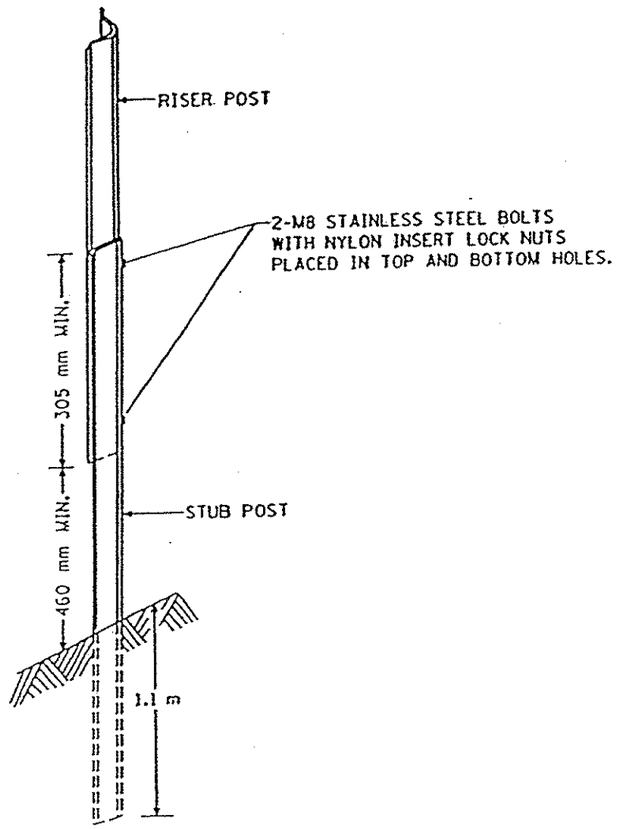
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)
SIGNPOST SUPPORT IN CONCRETE
CITY PROJECT 98-20

S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

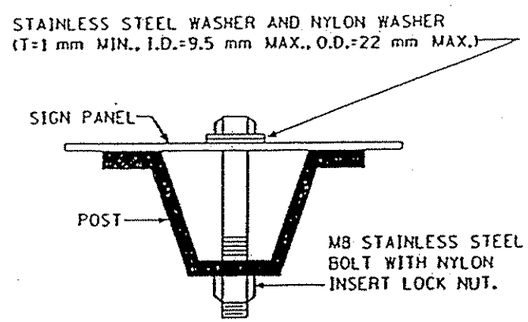
SHEET NO. 294 / 539

PLOT DATE: Dec 199 8:43am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\DETAILS\...ace.dwg

TYPE "C" & "D" POST

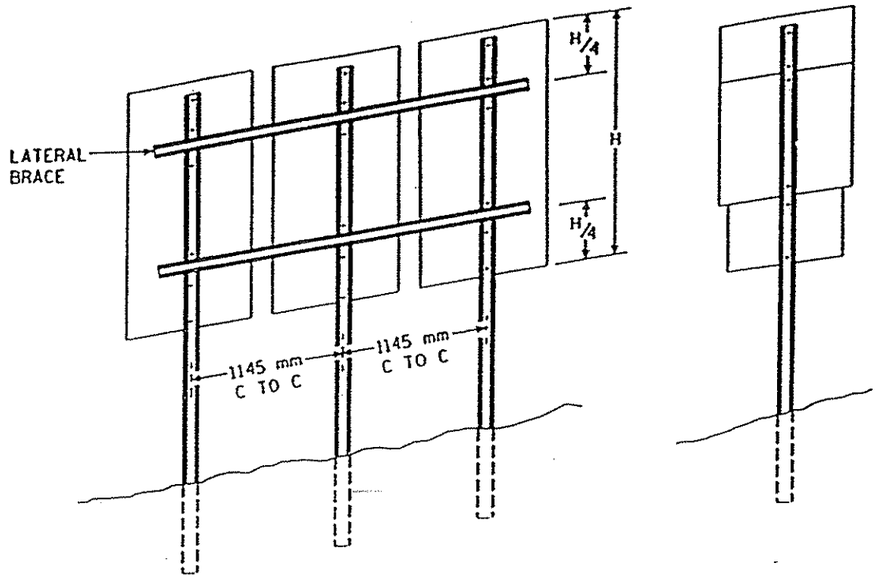


"U POST" SPLICE

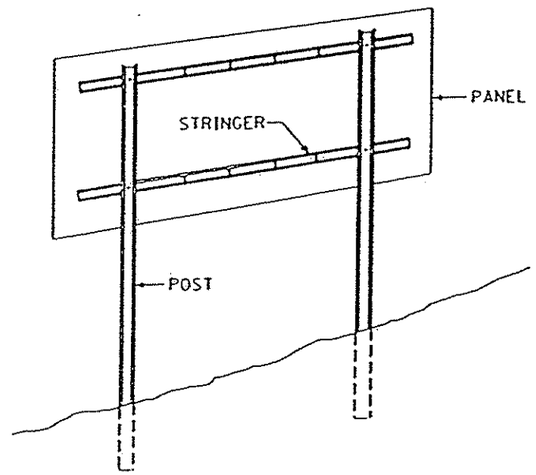


"U POST" MOUNTING TYPE "C" SIGNS

Revised 1-16-98



TYPICAL TYPE "C" INSTALLATIONS



TYPICAL TYPE "D" INSTALLATION

NOTES:

1. USE 4.45 kg/m STUB POSTS, RISER POSTS, STRINGERS, KNEE BRACES, LATERAL BRACES AND KNEE BRACE STUB POSTS. ALL SHALL CONFORM TO MN/DOT 3401.
2. FOR TYPE "D" SIGN POSTS LENGTHS AND SPACINGS, SEE SIGN DATA SHEET.
3. TYPE "D" SIGN PANELS SHALL BE BOLTED TO STRINGERS AT 610 mm MAXIMUM INTERVALS IN ACCORDANCE WITH TYPE "D" STRINGER AND PANEL-JOINT DETAIL (SEE STANDARD SIGNS MANUAL).
4. MOUNTING (PUNCHING CODE) FOR TYPE "C" SIGN PANELS SHALL BE AS INDICATED IN THE STANDARD SIGNS MANUAL UNLESS OTHERWISE SPECIFIED.
5. ALL RISER (VERTICAL) "U POSTS" SHALL BE SPLICED. DRIVEN STUB POSTS SHALL BE AT LEAST 2.2 m LONG.
6. USE STAINLESS STEEL M8 BOLTS, WASHERS, AND NYLON INSERT LOCK NUTS AS SHOWN FOR ALL GROUND MOUNTED AND OVERHEAD MOUNTED SIGNS.
7. STAINLESS STEEL WASHER WITH SAME DIMENSIONS SHALL BE PROVIDED BETWEEN ALL NYLON WASHERS AND BOLT HEADS.
8. BRACING STUBS SHALL BE NO MORE THAN 100 mm ABOVE GROUND AND EMBEDDED AT LEAST 1.1 m.
9. A-FRAME BRACKET SHALL BE STEEL CONFORMING TO MN/DOT 3306 AND GALVANIZED IN ACCORDANCE WITH MN/DOT 3394.
10. COLLARS SHALL BE USED TO SHIM OVERLAYS AND DEMOUNTABLE LEGEND AWAY FROM PANEL WHERE INTERFERENCE WITH BOLT HEADS IS ENCOUNTERED. MN/DOT 3352.2A7.
11. 2 AND 3 POST TYPE "C" SIGNS SHALL BE REINFORCED WITH AT LEAST ONE LATERAL BRACE. INSTALLATIONS WHERE THE TOTAL PANEL HEIGHT IS 1525 mm OR MORE SHALL HAVE TWO LATERAL BRACES LOCATED APPROXIMATELY AT THE QUARTER POINTS.
12. WHERE 2 OR MORE SINGLE POST SIGNS (TYPE "C") ARE MOUNTED SIDE BY SIDE, THEY SHALL BE REINFORCED LATERALLY BY AT LEAST 2 POST SECTIONS, BOLTED AT EACH POST AND LOCATED APPROXIMATELY AT THE QUARTER POINTS AS SHOWN IN SKETCH:

"C" & "D" SIGN DETAILS

DESIGN A

Sheet 1 of 3

7 OF 31

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)
"C" & "D" SIGN DETAILS
DESIGN A (Sheet 1 of 3)

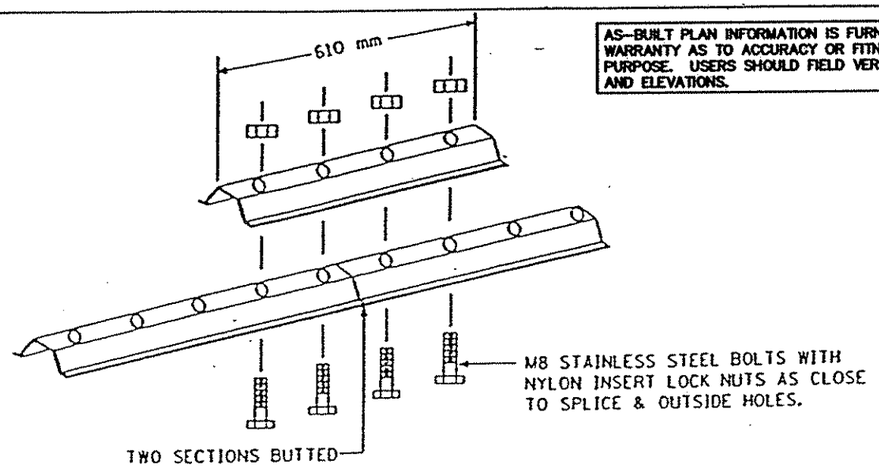
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

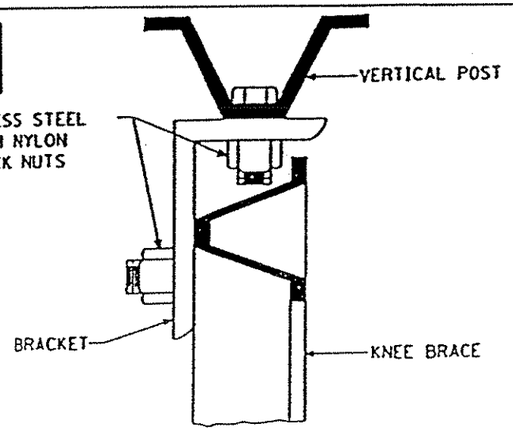
SHEET NO. 295 / 539

PLOT DATE: Dec 199 8:46am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\DETAILS\...lace.dwg

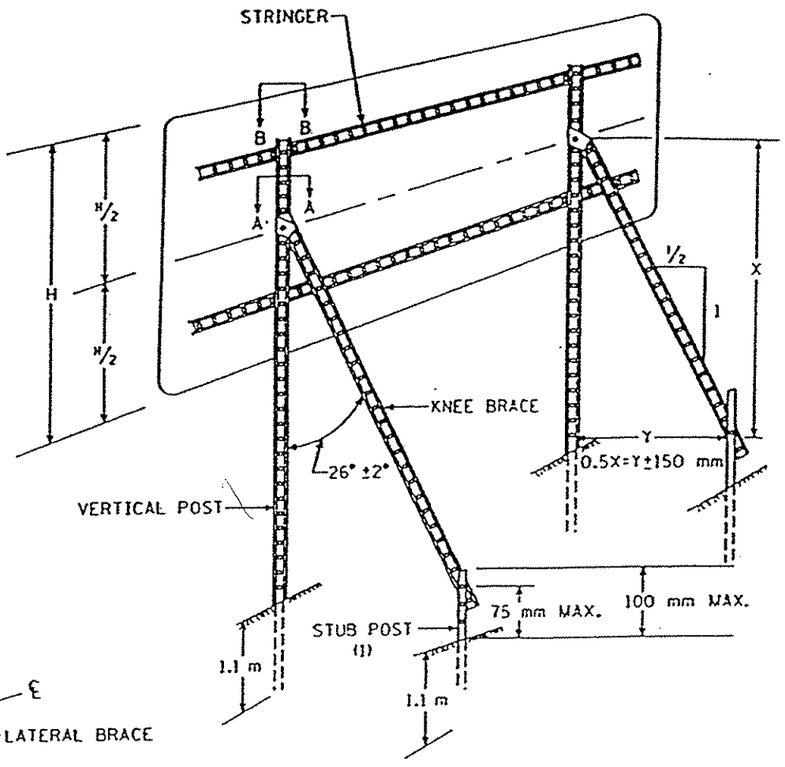
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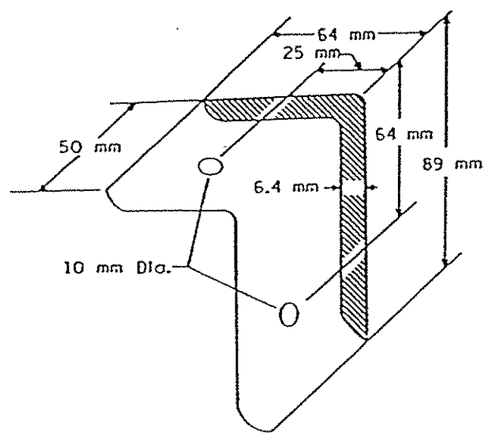
LATERAL BRACE OR STRINGER
SPLICE DETAIL (EXPLODED VIEW)



SECTION A-A

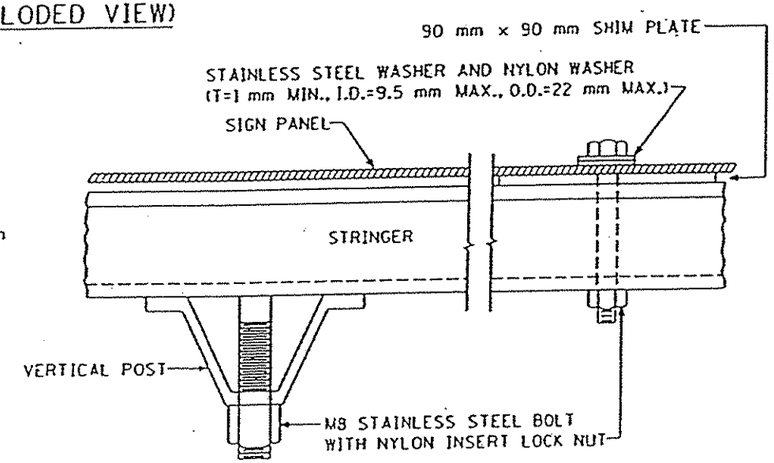


TYPICAL "A-FRAME" INSTALLATION
TYPE "D" SIGNS

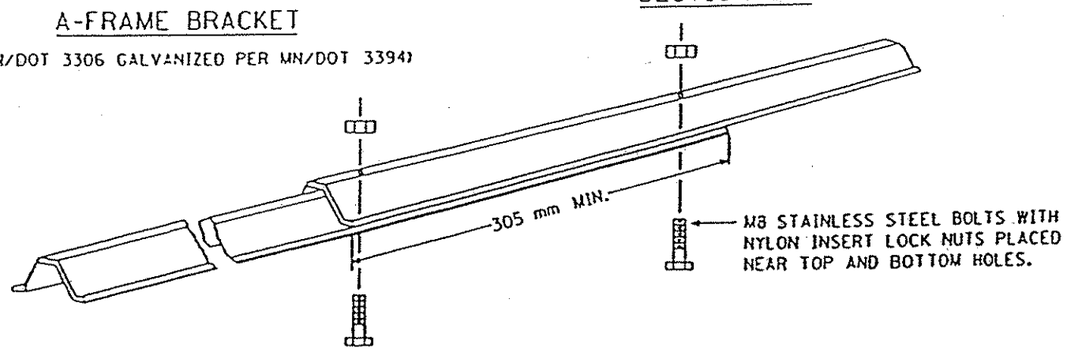


A-FRAME BRACKET

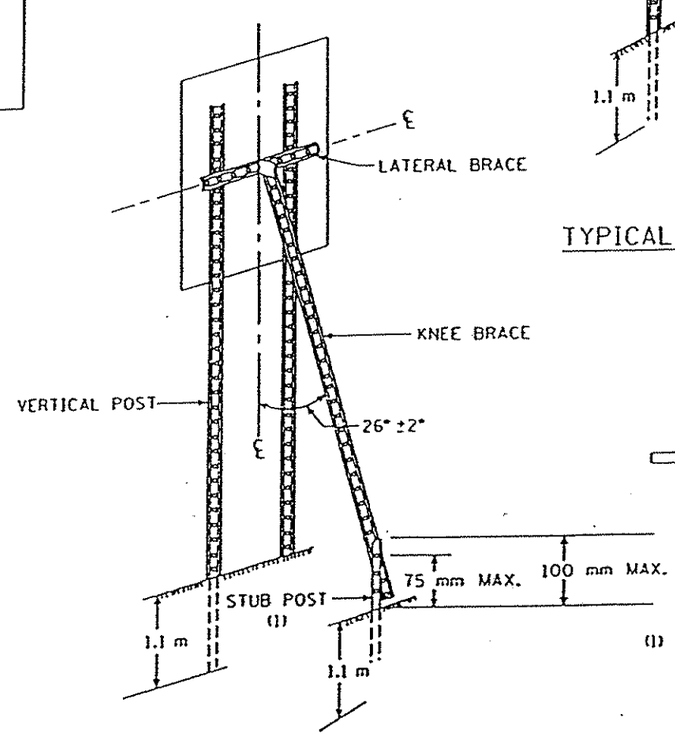
(STEEL MN/DOT 3306 GALVANIZED PER MN/DOT 3394)



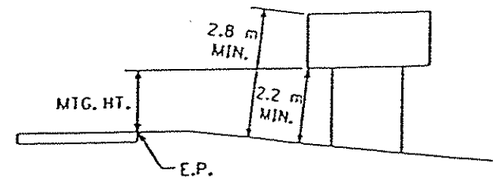
SECTION B-B



KNEE BRACE SPLICE



TYPICAL "A-FRAME" INSTALLATION
TYPE "C" SIGNS



TYPICAL MOUNTING

(1) OFFSET STUB POST 300 mm TOWARD ROADWAY RELATIVE TO VERTICAL POST.

"C" & "D" SIGN DETAILS

DESIGN A
Sheet 2 of 3

Revised 8-13-97

8 OF 31

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CHKED. BY: KPK | DWG. NAME: SGNPLACE
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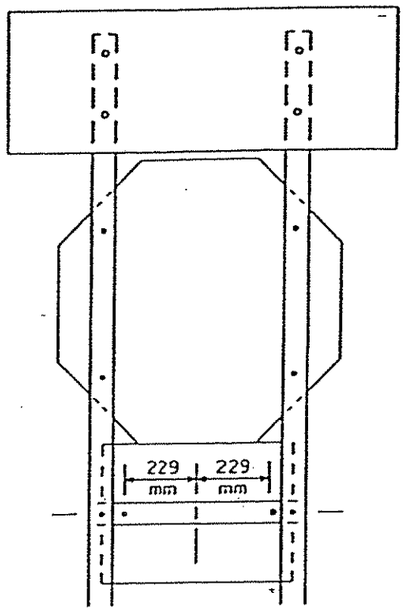
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)
"C" & "D" SIGN DETAILS
DESIGN A (Sheet 2 of 3)

CITY PROJECT 98-20

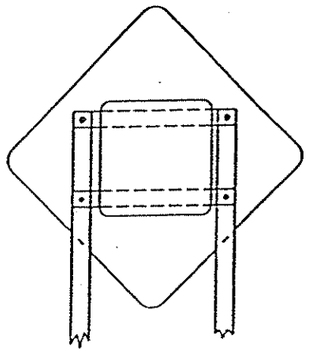
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
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S.A.P.	114 - 020 - 19
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S.A.P.	114 - 127 - 02

SHEET NO. 296 / 539

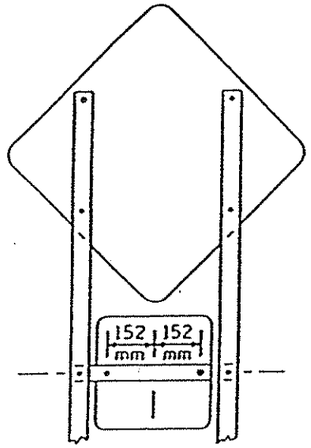
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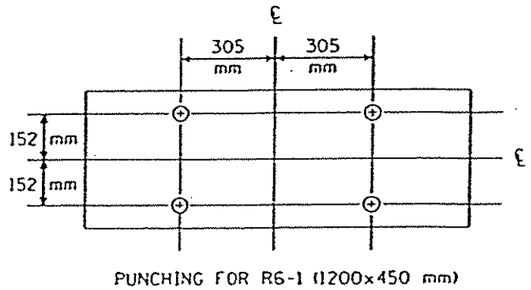
R6-1, R1-1 & (R6-3 OR R6-3a)
MOUNTING



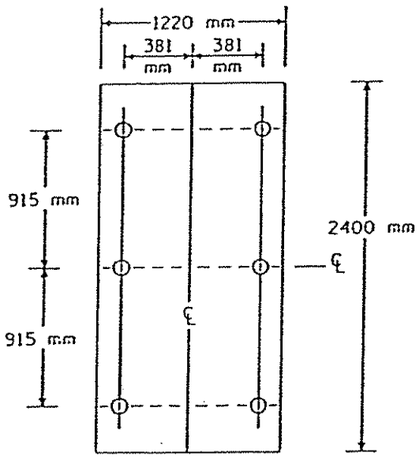
BACK TO BACK MOUNTING
OF R4-7 AND W9-2



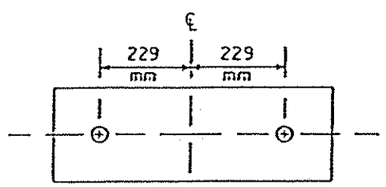
(W1-1, W1-2, W1-3, W1-4 OR W1-5) & W13-1
MOUNTING



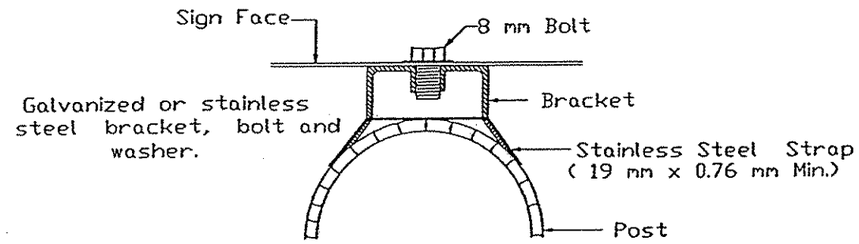
PUNCHING FOR R6-1 (1200x450 mm)



PUNCHING FOR R2-4a
SPEED LIMIT



PUNCHING FOR R6-1 (900x300mm)



STRAP MOUNTING DETAIL

Revision 1-16-98

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"C" & "D" SIGN DETAILS

DESIGN A
Sheet 3 of 3

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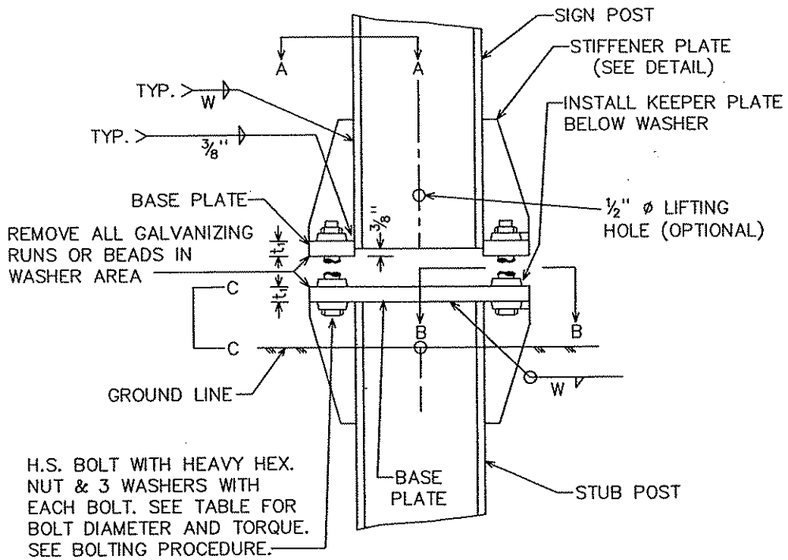
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)
"C" & "D" SIGN DETAILS
DESIGN A (Sheet 3 of 3)

CITY PROJECT 98-20

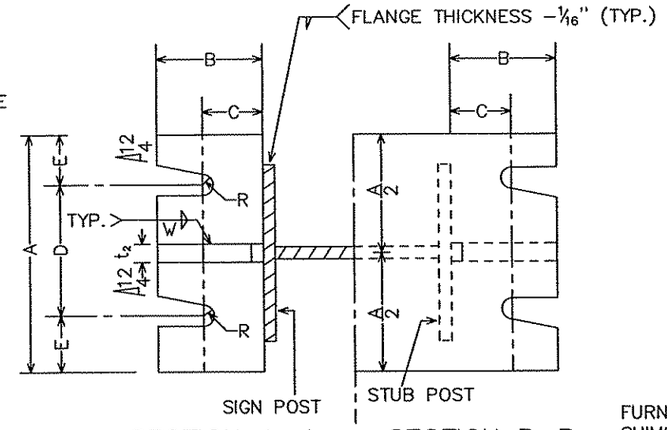
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SHEET NO. 297 / 539

PLOT DATE: Dec 1999 8:48am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\DETAILS\face.dwg



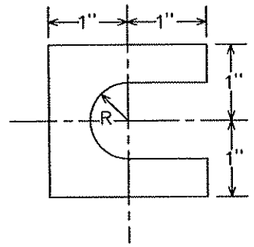
SIGN POST AND STUB POST ELEVATION



SECTION A−A SECTION B−B

(SEE TABLE FOR DIMENSIONS)

SECTIONS SHOWN ARE FOR INSTALLATIONS ON RIGHT SHOULDER AND IN GORE. PLATE SLOT BEVELS ARE OPPOSITE HAND FROM THAT SHOWN FOR INSTALLATIONS ON LEFT SHOULDER.

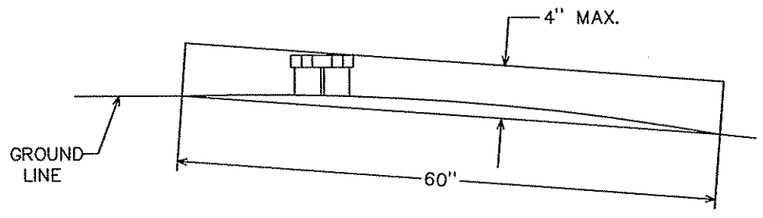


FURNISH TWO−.012"± THICK AND TWO−.032"± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M. B36.

SHIM DETAIL

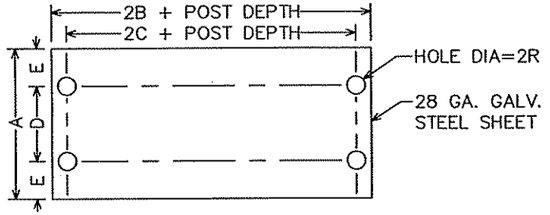
BOLTING PROCEDURE − BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND WITH ONE OF THE FLAT WASHERS ON EACH BOLT BETWEEN PLATES.
2. SHIM AS REQUIRED TO PLUMB POST.
3. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS AND SHIMS AND TO CLEAN BOLT TREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
4. BURR TREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

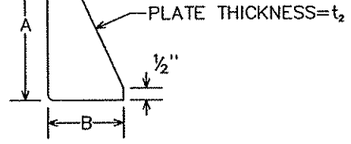


VIEW C−C

MAXIMUM PROJECTION OF STUB POST SHALL NOT EXTEND BEYOND A LINE, ABOVE AND 4" PARALLEL TO ANY CHORD, WHICH IS PERPENDICULAR TO (OR ALIGNED RADIALLY TO) THE CENTERLINE OF THE HIGHWAY AND HAS ITS (THE CHORD'S) END POINTS ON THE GROUND SURFACE ON OPPOSITE SIDES OF THE STUB POST.

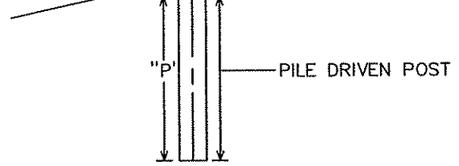


KEEPER PLATE



STIFFENER PLATE DETAIL

(SEE TABLE FOR DIMENSIONS)



H−PILE FOOTING

DIMENSION / POST SIZE	BOLT SIZE AND TORQUE	A	B	C	D	E	t_1	t_2	W	R	G	H	J	K	L	M	d_1	d_2	t_3	BOLT DIA.	STUB POST LENGTH ②	H PILE POST "P" (MIN. LENGTH)
W4X13	3/4" ø x 3 1/2" TORQUE=600"#	6"	2 1/2"	1 1/2"	3 1/2"	1 1/4"	1"	1/2"	1/4"	13/32"	2"	1 1/4"	4"	2 1/4"	7/8"	1"	11/16"	3/4"	3/8"	5/8"	2'	12'
~~W5X16~~											2 1/2"	1 1/4"	5"	2 3/4"	1 1/8"	1 1/8"	13/16"	7/8"	3/8"	3/4"	2'	12'
W6X20	7/8" ø x 4 1/4" TORQUE=800"#	8"	3"	1 3/4"	4"	2"	1 1/4"	1/2"	1/4"	15/32"	2 1/2"	1 1/4"	6"	3 1/2"	1 1/4"	1 3/8"	13/16"	1 1/8"	3/8"	3/4"	2'	12'
W8X24											2 1/2"	1 1/2"	6 1/2"	3 1/2"	1 1/2"	1 1/2"	15/16"	1 1/4"	1/2"	7/8"	2'	12'
W8X28	1" ø x 5" TORQUE=1000"#	8"	3"	2"	4"	2"	1 1/2"	3/4"	5/16"	17/32"	2 1/2"	1 1/2"	6 1/2"	3 1/2"	1 1/2"	1 5/8"	1 1/16"	1 1/8"	1/2"	1"	2'	12'
W8X31	1−1/8" ø x 5" TORQUE=1200"#	9"	3 1/2"	2"	5"	2"	1 1/2"	3/4"	5/16"	19/32"	3"	1 3/4"	8"	5 1/2"	1 1/4"	2"	1 1/16"	1 1/2"	1/2"	1"	2'	12'
③ W10X39											3"	1 3/4"	8"	5 1/2"	1 1/4"	1 7/8"	1 3/16"	1 3/8"	1/2"	1 1/8"	2'	12'

SPECIFIC NOTES:
① SAME THICKNESS AS SIGN POST
② MEASURED FROM TOP OF BASE PLATE
③ OLD BEAM DEPTH = 10". NEW REVISED BEAM DEPTH = 9 7/8". KEEPER PLATES MUST BE FABRICATED ACCORDINGLY

AS−BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTE: THIS PLAN SHEET IS IN ENGLISH UNITS

minnesota metric

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kielb

DATE: 7/19/00 MINN. REG. NO. 23211

S.P.	0212−40 (T.H.242=242)
S.A.P.	02 − 614 − 19
S.A.P.	02 − 618 − 24
S.P.	114 − 010 − 11
S.A.P.	114 − 020 − 19
S.A.P.	114 − 136 − 02
S.A.P.	114 − 127 − 02

TYPE A SIGN STRUCTURAL DETAILS

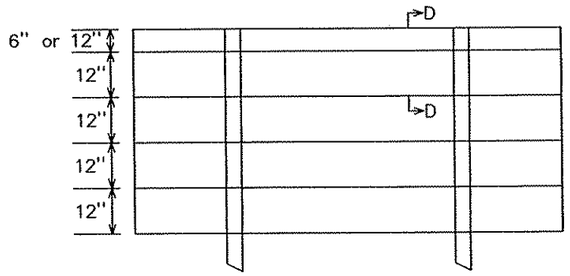
H−PILE FOOTING

SHEET 1 OF 2

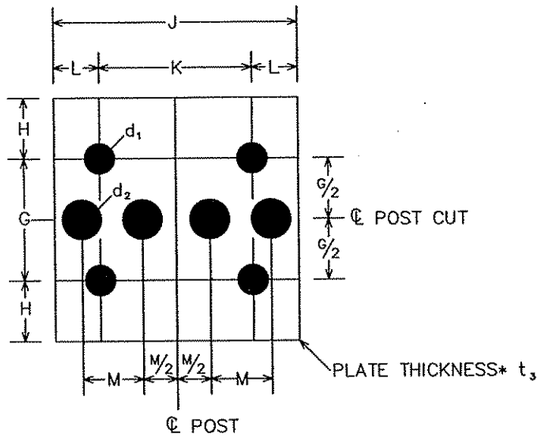
Sheet No. 297A of 539 Sheets

Revised 3−12−98

PLOT DATE: Aug 03, 2004 10:47am DISK FILE NAME: (15.06) R:\33889\338902...\33889W\FR−OTHER\MnDOT\asign.dwg
ASIGN.STR HF 3−12−98

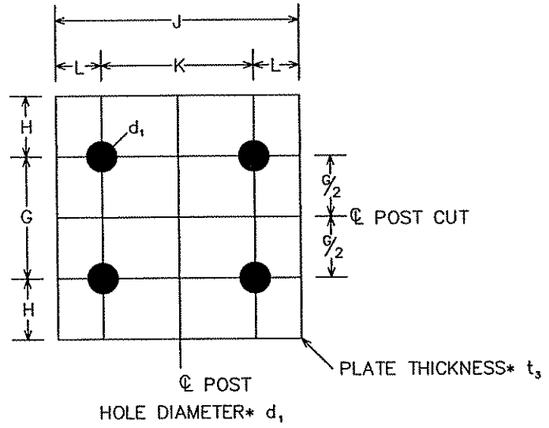


TYPICAL PANEL MOUNTING



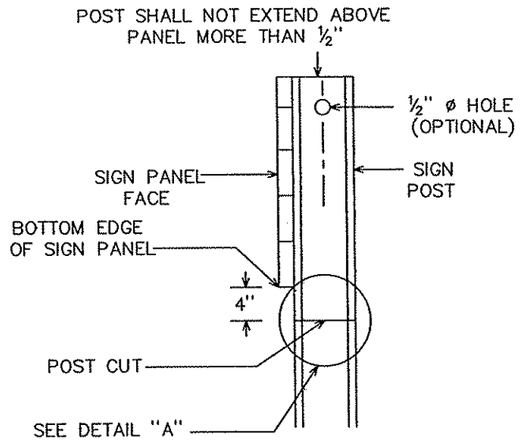
FRICTION FUSE PLATE DETAIL

(SEE TABLE ON SHEET 1 OF 2 FOR DIMENSIONS)

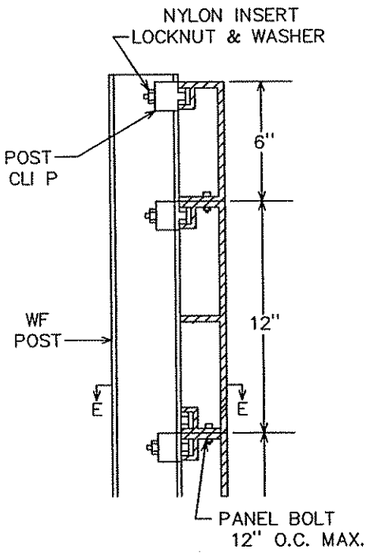


HINGE PLATE DETAIL

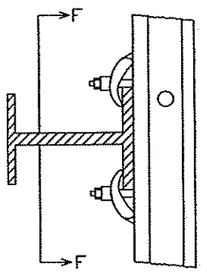
(SEE TABLE ON SHEET 1 OF 2 FOR DIMENSIONS)



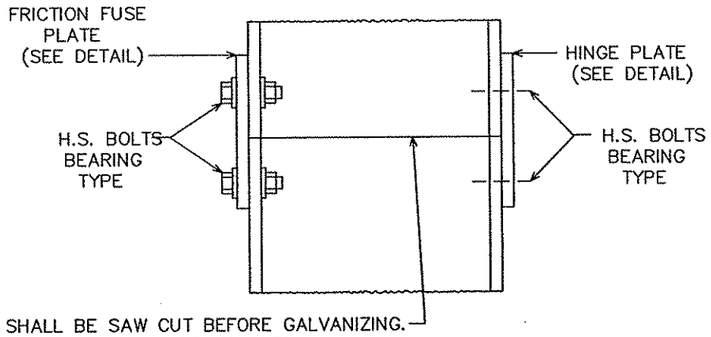
FRICTION FUSE SIDE VIEW



SECTION D–D

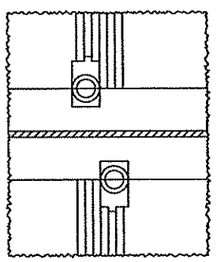


SECTION E–E



POST SHALL BE SAW CUT BEFORE GALVANIZING.
USE H.S. BOLTS WITH HEX. HD., HEX. NUT,
AND TWO FLAT WASHERS.

DETAIL "A" FRICTION FUSE



NOTE: POST CLIPS SHALL BE INSTALLED ON BOTH SIDES OF EACH POST AT EACH PANEL JOINT AS INDICATED.

SECTION F–F

CONTRACTOR NOTE: ALL FRICTION FUSE BOLTS SHALL BE TORQUE WRENCH TIGHTENED IN THE FIELD IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE. NUTS SHALL HAVE BEEN RETAPPED AND BOLT THREADS SHALL HAVE BEEN CLEANED WITH A 1/64" OVERSIZED RETHREADING DIE AFTER GALVANIZING. BEFORE TIGHTENING MAY BEGIN, THE TORQUE WRENCH SHALL BE CALIBRATED WITH A BOLT–TENSION–CALIBRATOR USING TYPICAL BOLT–NUT–WASHER ASSEMBLIES OF EACH SIZE AND LOT TO BE USED SO AS TO SHOW THE TORQUE NECESSARY TO OBTAIN THE FOLLOWING MINIMUM RESIDUAL TENSION IN EACH BOLT.

BOLT SIZE	MIN. RESIDUAL, BOLT TENSION
½" ø	12,050#
⅝" ø	19,200#
¾" ø	28,400#
⅞" ø	39,250#
1" ø	51,500#
1⅛" ø	56,450#

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

GENERAL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO MN/DOT 3308. REINFORCING BARS SHALL CONFORM TO MN/DOT 3301. SPIRALS SHALL CONFORM TO MN/DOT 3305–NO SPLICES. HIGH STRENGTH BOLTS SHALL CONFORM TO A.S.T.M.–A325.
2. FORMS WILL BE REQUIRED FOR THE EXPOSED VERTICAL SURFACES OF THE FOOTINGS.
3. REFER TO "SIGN DATA" SHEET FOR SPECIFIC DATA ON EACH INDIVIDUAL SIGN INSTALLATION.
4. FRICTION FUSE PLATE SHALL BE INSTALLED ON SIDE OF POST FACING TRAFFIC.
5. ALL POST CUTS SHALL BE SAW CUTS. PLATES MAY BE SHEARED OR FLAME CUT USING A MECHANICALLY GUIDED CUTTING TORCH. EDGE PREPARATION SHALL BE IN ACCORDANCE WITH MN/DOT 2471.3C4 AND MN/DOT 2471.3d4.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kielb

DATE: 7/19/00 MINN. REG. NO. 23211

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

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NOTE: THIS PLAN SHEET IS IN ENGLISH UNITS

TYPE A SIGN STRUCTURAL DETAILS

SHEET 2 OF 2

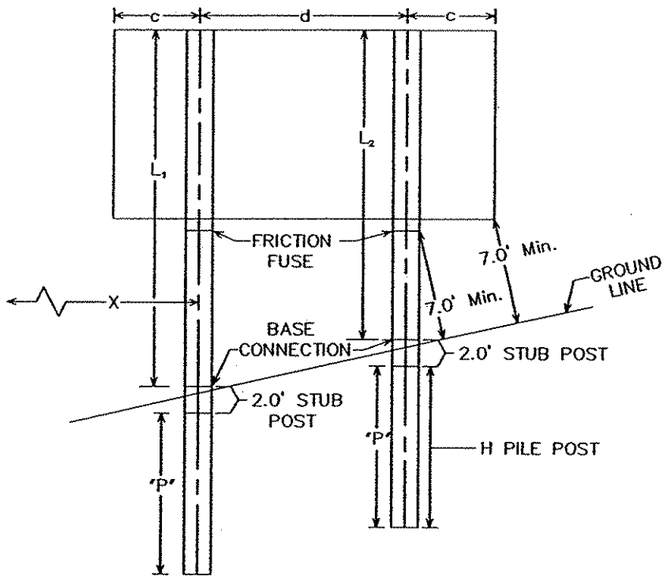
Sheet No. 297B of 539 Sheets

Revised 10–14–98

PLOT DATE: Aug 03, 2004 10:47am DISK FILE NAME: (15.06) R:\33889\338902_\33889W\FR–OTHER\MnDOT\asign.dwg
ASIGNSTR 2 10–14–98

SALVAGE & INSTALL SIGN TYPE A (H PILE FOOTINGS)																
SIGN NO.	PRESENT LOCATION	NEW LOCATION [1]	PANEL SIZE (IN.)		POST						d (IN.)	"P" (FT.)	PILE		"X" (FT.)	"H" (FT.)
					SIZE		LENGTH (FT.)						ADDITIONAL STEEL PER PILE (LBS.)	WEIGHT (LBS.)		
			EXISTING	REQUIRED	PROPOSED	ALTERNATE	EXISTING		REQUIRED							
							L1	L2	L1	L2						
A1	SALVAGED	8+711, 17.000-19.286 LT	126 x 120	126 x 120	W 6 X 20	W X			17.5	17.5	90	12		480	44.0	5.7
A2	SALVAGED	7+520, 17.000-19.286 RT	126 x 120	126 x 120	W 6 X 20	W X			19.0	18.5	90	12		480	41.2	5.0
TOTAL														960		

NOTES
[1] TRUNK HIGHWAY 10 STATIONING (METRIC UNITS)



BREAKAWAY POSTS–H–PILE FOOTING
(L_1 IS POST NEAREST ROADWAY)

TYPE "A" SIGNS

NOTE: THIS PLAN SHEET IS IN ENGLISH UNITS

minnesota metric

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

SPECIFIC NOTE:
(1) Constant includes stub post weight

GENERAL NOTES:
1. Pile shall be the same size as the sign post and is to be driven to a 8 to 10 ton bearing capacity.
2. See sheets and for Structural Details, Type "A" Signs (Breakaway).
3. Post lengths are approximate.
4. "X" is the distance from the edge of the thru lane to the first post.
5. "H" is the height above the pavement edge to the bottom edge of panel.
6. P is the length of H–pile post.

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Kevin P Kielb

DATE: 7/19/00 MINN. REG. NO. 23211

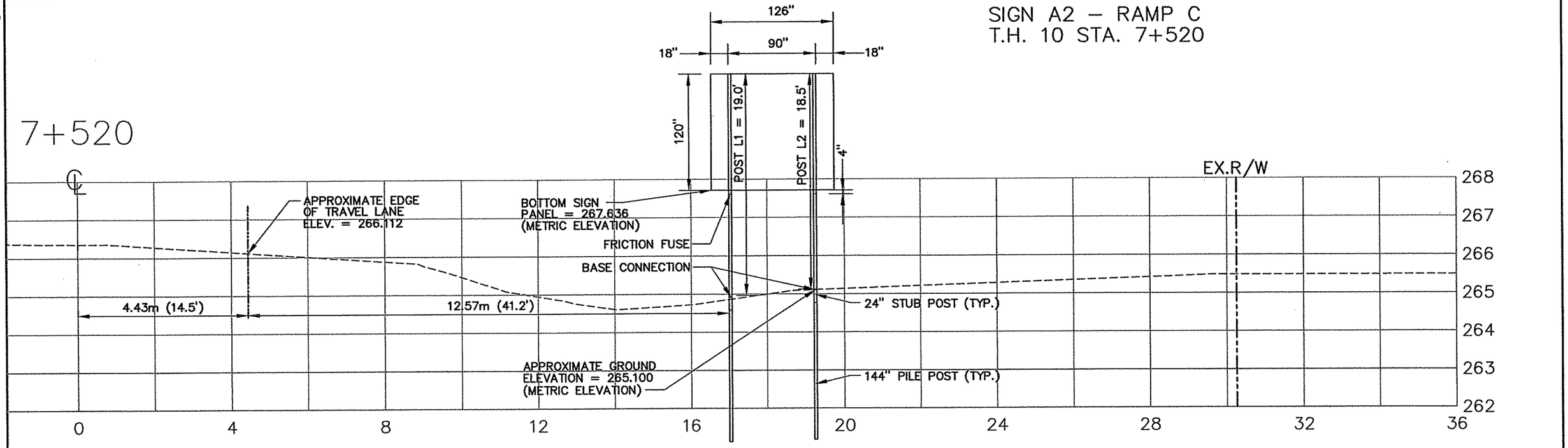
S.P.	0212–40 (T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

"A" SIGN DATA SHEET
H–PILE FOOTING

PLOT DATE: 19, 2000 8:25am DISK FILE NAME: (15.0h (Hardware Lock)) 33889\33889028\33889W\FR-OTHER\MnDOT\asign.dwg
CHARTDSN A2 8-14-98

asignrampc
Rampb-xs
SAPBOX

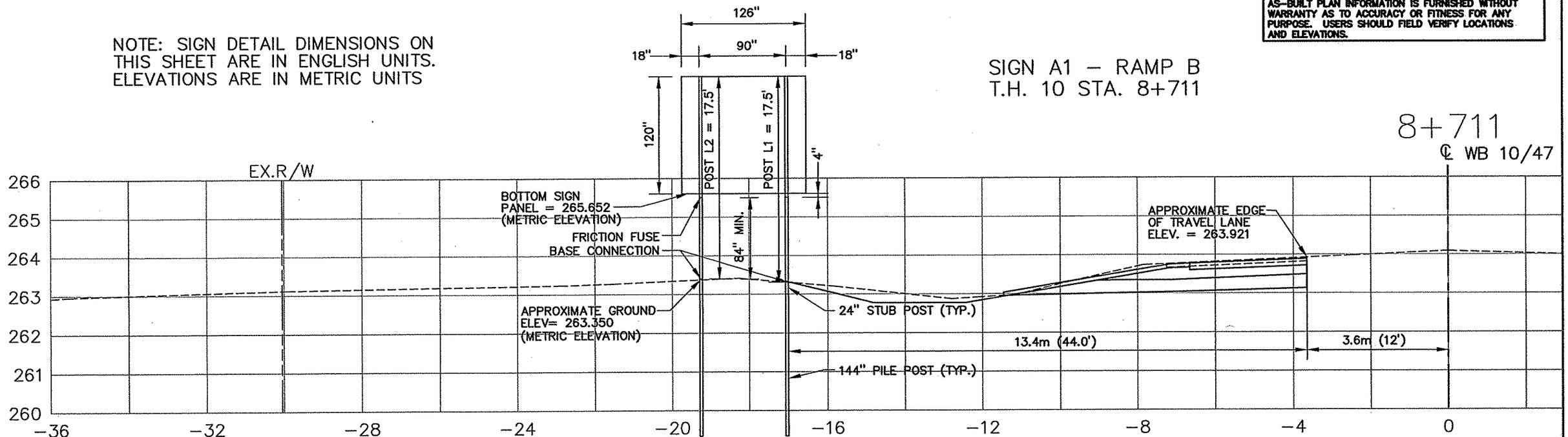
SIGN A2 – RAMP C
T.H. 10 STA. 7+520



NOTE: SIGN DETAIL DIMENSIONS ON THIS SHEET ARE IN ENGLISH UNITS. ELEVATIONS ARE IN METRIC UNITS

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SIGN A1 – RAMP B
T.H. 10 STA. 8+711



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	SAW	7/19/00	MOD. REQ. #12: ADDED SHEET
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JRL | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242ESG10
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 7/19/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
TYPE "A" SIGN DETAILS
STATION 7+540 AND STATION 8+763

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 297D / 539

PLOT DATE: Aug 03, 04 10:6am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SH\...esg10.dwg

SAPBOX

FURNISH AND INSTALL SIGN PANELS TYPE C

AB

SIGN NUMBER	POST TYPE	KNEE BRACE (EACH)	MINIMUM MOUNTING HEIGHT (m)	PANEL CODE (No.)	SIZE (INCHES)	SIGN EACH (m2)	MAIN STREET (CSAH 14) 02-614-19 114-020-19		INTERCHANGE 0212-40 114-010-11		MAIN STREET (TH 242) 0212-40 114-010-11		COON CREEK BOULEVARD 02-618-24		NORTHDALE BOULEVARD 114-127-02		124TH AVE. NW CROOKED LAKE BOULEVARD 114-136-02		SIGN LEGEND	NOTES
							QTY	m2	QTY	m2			QTY	m2	QTY	m2	QTY	m2		
C-1	1U		2.2	R4-7	24 X 30	0.464	5	2.320	3	1.392	4	1.856	3	1.392	6	2.784			KEEP RIGHT	2
				X4-2	18 X 18	0.209	5		3		4		3		6				HAZARD MARKER	1
C-2	2U		2.2	R3-8F	36 X 30	0.696	17	11.832	4	2.784	2	1.392			4	2.784			DOUBLE LEFT TURN	
C-3	1U		2.2	R3-7R	30 X 30	0.580	2	1.160			3	1.740							RIGHT LANE MUST TURN RIGHT	
C-4	1U		2.2	R3-X1	30 X 30	0.580	9	5.220			2	1.160							RIGHT TURN LANE	
C-5	1U		2.2	R1-1	30 X 30	0.580											5	2.900	STOP	
C-6	2U		2.2	R5-1	30 X 30	0.580	16	9.280	6	3.480	3	1.740	1	0.580	5	2.900			DO NOT ENTER	
C-7	1U		2.2	R4-7	24 X 30	0.464	6	2.784											KEEP RIGHT	2,4
				X4-2	18 X 18	0.209	6												HAZARD MARKER	1,4
C-8	2U		2.2	R6-1(R)	36 X 12	0.278	2	0.556	2	0.556									ONE WAY	
C-9	2U		2.2	R6-1(L)	36 X 12	0.278			2	0.556			1	0.278	1	0.278			ONE WAY	
C-10	2U	1	2.2	R3-8	36 X 30	0.696											1	0.696	LEFT TURN, THRU/RIGHT TURN	3
C-11	2U	1	2.2	R3-8	36 X 30	0.696													LEFT TURN/THRU, RIGHT TURN	3
C-12	1U		2.2	R3-X2	30 X 30	0.580	3	1.740			3	1.740			3	1.740			LEFT TURN LANE	
C-13	1U		2.5	M3-2A	24 X 12	0.186	1	0.186											WEST (DIRECTIONAL)	
			1.9	M1-6	24 X 24	0.372	1	0.372											COUNTY ROUTE MARKER (14)	
C-15	1U		2.3	W9-1R	36 X 36	0.836					1	0.836							RIGHT LANE ENDS	
			1.9	W20-100P	24 X 18	0.278					1	0.278							1200 FEET PLAQUE	
C-16	2U	1	2.2	W4-2(R)	36 X 36	0.836			2	1.672	1	0.836	1	0.836	1	0.836			LANE REDUCTION TRANSITION	
C-17	2U	2	2.2	R3-8	72 X 30	1.393			4	5.572									LEFT TURN, LEFT/THRU, DOUBLE RIGHT TURN	3
C-18	2U	1	2.2	R3-8	54 X 30	1.045			4	4.180									LEFT TURN, LEFT/THRU, RIGHT TURN	3
C-19	2U	1	2.2	R16-X4	36 X 36	0.836			3	2.508									FREEWAY ENT. RAMP INFORMATION SIGN	
C-20	1U		2.2	W4-1(R)	30 X 30	0.580			2	1.160									MERGE (RIGHT)	
C-21	1U		2.2	R10-X7	24 X 30	0.464			1	0.464									FORM 2 LANES WHEN METERED	
C-22	2U	1	2.2	R3-X3	36 X 60	1.394			1	1.394									RESTRICTED RAMP	
C-23	1U		2.2	R3-2	24 X 24	0.372			1	0.372	1	0.372							NO LEFT TURN	
C-24	2U		2.2	R5-1a	36 X 24	0.557			4	2.228									WRONG WAY	
C-25	1U		2.2	R5-10d	18 X 24	0.278			2	0.556									FREEWAY RAMP RESTRICTIONS	
C-26	2U	1	2.2	W3-3	36 X 36	0.836			2	1.672			1	0.836	2	1.672	1	0.836	SIGNAL AHEAD	
C-28	1U		2.9	M3-1A	24 X 12	0.186													NORTH (DIRECTIONAL)	
			2.3	M1-6	24 X 24	0.372													COUNTY ROUTE MARKER (18)	
			1.9	M6-3A	21 X 15	0.203													UP ARROW (DIRECTIONAL)	
C-29	2U	2	2.2	R2-1	36 X 48	1.115	3	3.345			1	1.115							SPEED LIMIT (55 MPH)	
C-30	2U	2	2.2	W6-2	36 X 36	0.836					1	0.836							DIVIDED HIGHWAY ENDS	
C-34	1U		2.2	R2-1	24 X 30	0.464											5	2.320	SPEED LIMIT (30 MPH)	
C-35	1U		2.5	R3-9b	24 X 36	0.557											6	3.342	LEFT TURN CENTER LANE ONLY	
			1.9	R8-3a	24 X 24	0.372											6	2.232	NO PARKING	
C-36	2U	1	2.2	R3-8	54 X 30	1.045	1	1.045							1	1.045			LEFT TURN, THRU, RIGHT TURN/THRU	3
C-37	2U		2.2	R3-8	36 X 30	0.696	2	1.392											LEFT TURN/THRU, RIGHT TURN/THRU	3
C-39	SIG. POLE		2.2	R6-1(R)	36 X 12	0.278	10	2.780	3	0.834	4	1.112			2	0.556	2	0.556	ONE WAY	
C-40	SIG. POLE		2.2	R6-1(L)	36 X 12	0.278	10	2.780	4	1.112	4	1.112			2	0.556	2	0.556	ONE WAY	
C-41	1U		2.2	R1-1	30 X 30	0.580	1	0.580					1	0.580	3	1.740			STOP	
			3.0	R6-1(R)	36 X 12	0.278	1	0.278					1	0.278	2	0.556			ONE WAY	
			3.0	R6-1(L)	36 X 12	0.278									1	0.278			ONE WAY	
C-42	2U	2	2.2	R3-8	72 X 30	1.393	3	4.179											DOUBLE LEFT TURN, THRU, RIGHT TURN	3
C-43	1U		2.2	R1-1	30 X 30	0.580	2	1.160											STOP	
			3.0	R6-1(R)	36 X 12	0.278	2	0.556											ONE WAY	
			3.0	R6-1(L)	36 X 12	0.278	2	0.556											ONE WAY	
C-44	2U	1	2.2	R3-8	54 X 30	1.045	2	2.090			1	1.045							LEFT TURN, THRU, RIGHT TURN	3
C-44A	2U		2.2	R3-8	36 X 30	0.696					1	0.696							THRU, RIGHT TURN	6
C-49	1U		2.2	R8-3a	24 X 24	0.372							3	1.116	14	5.208	7	2.604	NO PARKING	
C-50	1U		2.5	R2-1	24 X 30	0.464					1	0.464	1	0.464					SPEED LIMIT (45 MPH)	
			1.9	R8-3a	24 X 24	0.372					1	0.372	1	0.372					NO PARKING	
C-51	2U	1	2.2	W9-2R	36 X 36	0.836							1	0.836					LANE ENDS MERGE LEFT	
C-52	1U		2.2	W6-3	30 X 30	0.580					1	0.580	1	0.580	1	0.580			TWO WAY TRAFFIC	
C-53	1U		2.5	M3-1A	24 X 12	0.186					1	0.186							NORTH (DIRECTIONAL)	
			1.9	M1-6	24 X 24	0.372					1	0.372							COUNTY ROUTE MARKER (18)	
C-55	1U		2.2	W14	30 X 30	0.580									1	0.580			DEAD END	
C-57	1U		2.5	X1	30 X 30	0.580					1	0.580	1	0.580	2	1.160			RIGHT TURN LANE	
				R8-3a	24 X 24	0.372					1	0.372	1	0.372	2	0.744			NO PARKING	
C-58	1U		2.9	M4-5	24 X 12	0.186					1	0.186							TO (DIRECTIONAL)	
			2.3	M1-4	24 X 24	0.372					1	0.372							U.S. HIGHWAY ROUTE MARKER (10)	
			1.9	M6-1A	21 X 15	0.203					1	0.203							RIGHT ARROW (DIRECTIONAL)	
C-59	1U		2.3	M1-5A	24 X 24	0.372					1	0.372							STATE HIGHWAY ROUTE MARKER (242)	
			1.9	M6-4A	21 X 15	0.203					1	0.203							DOUBLE ARROW (DIRECTIONAL)	
C-60	1U		2.9	M4-5A	24 X 12	0.186					1	0.186							TO (DIRECTIONAL)	
			2.3	M1-5A	24 X 24	0.372					1	0.372							STATE HIGHWAY ROUTE MARKER (24	
			1.9	M5-1A(R)	21 X 15	0.203					1	0.203							UP-RIGHT ARROW (DIRECTIONAL)	
C-61	1U		2.2	W1-5R	30 X 30	0.580	1	0.580			1	0.580							WINDING ROAD	
C-62	1U		2.9	M3-1A	24 X 12	0.186	1	0.186											NORTH (DIRECTIONAL)	
			2.3	M1-6	24 X 24	0.372	1	0.372											COUNTY ROUTE MARKER (9)	
			1.9	M6-1A	21 X 15	0.203	1	0.203											RIGHT ARROW (DIRECTIONAL)	

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED C-7, C-15, C-30. DELETED C-27.
			CSAH 14: MOVED 6 C-1 TO C-7, ADDED 1 C-12, DEL.
			1 C-36. TH 242: DELETED 1 C-3.
			NORTHDALE: MODIFIED SIGNS
2	JJL	7/5/00	MOD. REQ. #56: REMOVED 1 TYPE C-1 SIGN
3	IKR	7/14/00	MOD. REQ. #51: DELETED 1 EACH TYPE C-1 & C-6.
4	JJL	9/29/00	MOD. REQ. #69: MOD. SIGNS FOR ND BLVD
5	JJL	6/13/01	MOD.REQ.#77: MOD. SIGNS FOR MAIN ST (TH 242)
6	JJL	7/30/01	MOD.REQ.#108: MOD. SIGNS FOR TH 242 LANE TRANSITION
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/JJL
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: SIGNTAB1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kuhl
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
SIGN TABULATIONS

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 298 / 539

PLOT DATE: Aug 03, 2004 11:09am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SIGNTAB1.dwg

SAPBOX

FURNISH AND INSTALL SIGN PANELS TYPE C

AB

SIGN NUMBER	POST TYPE	KNEE BRACE (EACH)	MINIMUM MOUNTING HEIGHT (m)	PANEL CODE (No.)	SIZE (INCHES)	SIGN EACH (m2)	MAIN STREET (CSAH 14) 02-614-19 114-020-19		INTERCHANGE 0212-40 114-010-11		MAIN STREET (TH 242) 0212-40 114-010-11		COON CREEK BOULEVARD 02-618-24		NORTHDALE BOULEVARD 114-127-02		124TH AVE. NW CROOKED LAKE BOULEVARD 114-136-02		SIGN LEGEND	NOTES
							QTY	m2	QTY	m2			QTY	m2	QTY	m2	QTY	m2		
C-63	1U		2.5	M3-2A	24 X 12	0.186	1	0.186											EAST (DIRECTIONAL)	
			1.9	M1-6	24 X 24	0.372	1	0.372											COUNTY ROUTE MARKER (14)	
C-64	1U		2.9	M2-1A	21 X 15	0.203	1	0.203											JUNCTION	
			2.3	M1-6	24 X 24	0.372	1	0.372											COUNTY ROUTE MARKER (9)	
C-65	1U		2.3	M1-6	24 X 24	0.372					1	0.372							COUNTY ROUTE MARKER (18)	
			1.9	M6-1A	21 X 15	0.203					1	0.203							LEFT ARROW (DIRECTIONAL)	
C-66	2U	1	2.2	W4-2R	36 X 36	0.836	1	0.836	1	0.836	1	0.836							ADDED LANE	
C-67	1U		2.2	W1-4R	30 X 30	0.580									2	1.160			REVERSE TURN	
			1.9	W13-1	18 X 18	0.209									2	0.418			ADVISORY SPEED PLATE (35 MPH)	
C-68	1U		2.9	M2-1A	21 X 15	0.203									2	0.406			JUNCTION	
			2.3	M1-6	24 X 24	0.372									2	0.744			COUNTY ROUTE MARKER (14)	
			1.9	M6-4A	21 X 15	0.203									2	0.406			DOUBLE ARROW (DIRECTIONAL)	
C-69	1U		2.2	W11-4	30 X 30	0.580					1	0.580	1	0.580					CATTLE CROSSING	
C-70	1U		2.3	M2-1A	21 X 15	0.203					1	0.203							JUNCTION	
			1.9	M1-5A	24 X 24	0.372					1	0.372							STATE HIGHWAY ROUTE MARKER (242)	
C-71	2U	1	2.3	W9-1R	36 X 36	0.836	2	1.672			1	0.836							RIGHT LANE ENDS	
			1.9	W20-100P	24 X 18	0.278	2	0.556											750 FEET PLAQUE	
C-72	2U	1	2.1	W20-3L	48 X 48	1.486					2	2.972							MERGE	
C-73	2U	1	2.3	W2-2	36 X 36	0.836											1	0.836	SIDE ROAD - 90 DEGREE	
			1.9	W20-100P	24 X 18	0.278											1	0.278	300 FEET PLAQUE	
C-74			1.9	SPECIAL	36X12	0.278	1	0.278											ONCOMING TRAFFIC DOES NOT STOP	5
C-75			1.9	SPECIAL	36X12	0.278	1	0.278											TRAFFIC FROM LEFT DOES NOT STOP	5
C-76			1.9	SPECIAL	36X12	0.278	1	0.278											TRAFFIC FROM RIGHT DOES NOT STOP	5
TOTALS								62.563		33.328		29.843		9.680		29.131		17.156		

NOTES:
1) NINE YELLOW REFLECTORS ON YELLOW BACKGROUND, PAID FOR AS DELINEATOR TYPE X4-2 (EACH)
2) DELINEATION MARKING REQUIRED ON BACK OF SIGN PANEL
3) SPECIAL SIGN, NOT FOUND IN STANDARD SIGNS MANUAL
4) MOUNTED ON PEDESTRIAN PUSH BUTTON STATION POLE.
5) ATTACH UNDER EXISTING STOP SIGN
6.) SIGN R3-30CA IN STANDARD SIGNS MANUAL UNDER R3-8 DETAILS

GENERAL NOTES:
SIGN POSTS ON COUNTY ROADS SHALL BE PAINTED BLACK PER PROJECT SPECIFICATIONS (SAP 02-614-19, SAP 114-020-19, SAP 02-618-24)
SIGN POSTS ON CITY STREETS AND STATE TRUNK HIGHWAYS SHALL BE GALVANIZED STEEL PER MNDOT STANDARD SPECIFICATIONS (SP 0212-40, SP 114-010-11, SAP 114-127-02, SAP 114-136-02)

FURNISH AND INSTALL SIGN PANELS TYPE D

AC

NOTES	SIGN NUMBER	POST TYPE	KNEE BRACE (EACH)	MOUNTING HEIGHT (m)	SIZE (INCHES)	SIGN EACH (m2)	MAIN STREET (CSAH 14) 02-614-19 114-020-19		INTERCHANGE 0212-40 114-010-11		MAIN STREET (TH 242) 0212-40 114-010-11		COON CREEK BOULEVARD (CSAH 18) 02-618-24		NORTHDALE BOULEVARD 114-127-02		124TH AVE. NW CROOKED LAKE BOULEVARD 114-136-02		SIGN LEGEND
							QTY	m2	QTY	m2	QTY	m2	QTY	m2	QTY	m2	QTY	m2	
	D-1	2U	2	2.2	84 X 66	3.465	1	3.465											JUNCTION HWY 10/47 1/2 MILE
	D-2	3U	3	2.2	120 X 78	6.143	1	6.143											WEST/EAST HWY 10, NORTH/SOUTH HWY 47
	D-3	2U	2	2.2	90 X 72	4.050			1	4.050									EAST HWY 10, SOUTH HWY 47
	D-4	3U	3	2.2	132 X 78	6.728					1	6.728							EAST/WEST HWY 10, SOUTH/NORTH HWY 47
	D-5	3U	3	2.2	90 X 72	4.050					1	4.050							COON CREEK BOULEVARD/COUNTY. RD. 18, LEFT
	D-6	3U	3	2.2	90 X 72	4.050					1	4.050							COON CREEK BOULEVARD, COUNTY RD. 18, RIGHT
	D-8	2U	2	2.2	72 X 60	2.700													EXIT (E5-1)
1	D-10	3U	3	2.2	60 X 72	2.700			1	2.700									WEST COUNTY ROAD 14, LEFT
1	D-11			2.2	60 X 72	2.700			1	2.700									EAST HIGHWAY 242, RIGHT
	D-12	2U	2	2.2	60 X 72	2.700			1	2.700									EAST HIGHWAY 242, LEFT
	D-13	2U	2	2.2	60 X 72	2.700			1	2.700									WEST COUNTY ROAD 14, RIGHT
	D-14	2U	2	2.2	72 X 60	2.700			2	5.400									EXIT (E5-1)
	D-15	2U	2	2.2	90 X 72	4.050			1	4.050									WEST HWY 10, NORTH HWY 47
	TOTALS							9.608	8	24.3	3	14.828	0	0	0	0	0	0	

NOTES:
1) D-10 AND D-11 TO BE MOUNTED SIDE BY SIDE WITH TWO LATERAL BRACES LOCATED AT THE QUARTER POINTS OF THE SIGNS. CONTRACTOR TO INSTALL A BATTEN STRIP TO ELIMINATE A GAP BETWEEN THE SIGNS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

11 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED DIRECTIONAL ARROW FROM C-64.
			MOVED D SIGN D-15 FROM MAST ARM TO ROADWAY.
2	JJL	7/5/00	MOD. REQ. #36: MOD. TYPE C SIGN QUANTITY
3	IKR	7/14/00	MOD. REQ. #51: MOD. TYPE C SIGN QUANTITY
4	SAW	07/19/00	MOD. REQ. #12: REVISED D-10 AND D-11 POSTS
5	JJL	9/29/00	MOD. REQ. #69: MOD. ND BLVD SIGNS
6	JJL	6/13/01	MOD. REQ. #77: MOD. SIGNS FOR MAIN ST (TH 242)
7	JJL	6/19/01	MOD. REQ. #97: MOD 124TH AVE SIGNS
8	JJL	6/26/01	MOD. REQ. #101: ADDED TYPE C SIGNS
9	JJL	7/30/01	MOD. REQ. #108: MOD. SIGNS FOR TH242 LANE TRANSITION
10	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/JJL | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: SIGNTAB2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
SIGN TABULATIONS

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 299 / 539

PLOT DATE: Aug 03, 2004 11:09am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SIGNTAB2.dwg

FURNISH AND INSTALL DELINEATORS AND MARKERS — AD

TYPE	QUANTITY (EACH)	LOCATION
SAP 02-614-19, SAP 114-020-19		
MAIN STREET (CSAH 14)		
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 2+032 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)		CONC. ISLAND, MAIN STREET 2+281 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 2+326 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 2+591 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 2+637 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 2+872 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	2	CONC. ISLAND, MAIN STREET 2+909 RT
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 2+917 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, RIVER RAPIDS DR. 0+976 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, RIVER RAPIDS DR. 1+027 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-4L)	1	CONC. ISLAND, RIVER RAPIDS DR. 1+030 RT
YELLOW (X4-2)	1	CONC. ISLAND, RIVERDALE VILL. BLVD. 0+976 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, RIVERDALE VILL. BLVD. 1+026 RT (ON "KEEP RIGHT" POST)
SAP 02-614-19, SAP 114-020-19 TOTAL =	**14**	
SP 0212-40, SP 114-010-11		
INTERCHANGE		
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 3+250 CL (ON "KEEP RIGHT" POST)
YELLOW (X4-4L)	1	CONC. ISLAND, MAIN STREET 3+252 LT
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 3+252 RT
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 3+297 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 3+498 LT (ON "KEEP RIGHT" POST)
WHITE (X4-6)	4	ENT. NOSE RAMP B, RT OF HWY 10/47 WESTBOUND LANE
YELLOW (X4-6)	4	ENT. NOSE RAMP B, LT OF HIGHWAY 10 EXIT RAMP
YELLOW (X4-2)	1	ENT. NOSE RAMP B
YELLOW (X4-2)	1	ENT. NOSE RAMP C
WHITE (X4-6)	4	ENT. NOSE RAMP C, RT OF HWY 10/47 EASTBOUND LANE
YELLOW (X4-6)	4	ENT. NOSE RAMP C, LT OF HIGHWAY 10 ENTRANCE RAMP
YELLOW (X4-2)	1	CONC. ISLAND, RAMP D 8+160 RT
SP 0212-40, SP 114-010-11 TOTAL =	**24**	
SP 0212-40, SAP 114-010-11		
MAIN STREET (TH 242)		
YELLOW (X4-4L)	1	CONC. ISLAND, MAIN STREET 3+544 RT
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 3+544 CL (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 3+987 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 3+988 RT
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 3+995 RT
YELLOW (X4-2)	2	CONC. ISLAND, MAIN STREET 3+997 LT
YELLOW (X4-2)	1	CONC. ISLAND, COON CREEK BLVD. 1+025 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, MAIN STREET 4+029 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-4(R))	6	MAIN STREET E.B. 4+120 TO 4+250
SP 0212-40, SAP 114-010-11 TOTAL =	**15**	
SAP 02-618-24		
COON CREEK BOULEVARD		
YELLOW (X4-2)	1	CONC. ISLAND, COON CREEK BLVD. 1+262 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, COON CREEK BLVD. 1+290 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, COON CREEK BLVD. 1+318 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-4R)	4	COON CREEK BOULEVARD BRIDGE CORNERS
YELLOW (X4-5)	4	COON CREEK BOULEVARD BRIDGE GUARDRAIL
SAP 02-618-24 TOTAL =	**11**	
SAP 114-127-02		
NORTHDALE BOULEVARD		
YELLOW (X4-2)	1	CONC. ISLAND, NORTHDALE BLVD. 0+850 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, NORTHDALE BLVD. 0+976 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, NORTHDALE BLVD. 1+025 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-4L)	1	CONC. ISLAND, NORTHDALE BLVD. 1+030 LT
YELLOW (X4-2)	1	CONC. ISLAND, NORTHDALE BLVD. 1+133 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-2)	1	CONC. ISLAND, NORTHDALE BLVD. 1+160 RT (ON "KEEP RIGHT" POST)
YELLOW (X4-4L)	1	CONC. ISLAND, NORTHDALE BLVD. 1+163 RT
YELLOW (X4-2)	1	CONC. ISLAND, NORTHDALE BLVD. 1+249 LT (ON "KEEP RIGHT" POST)
YELLOW (X4-4L)	1	CONC. ISLAND, NORTHDALE BLVD. 1+245 LT
SAP 114-127-02 TOTAL =	**9**	
PROJECT TOTAL =	**73**	

SALVAGE AND INSTALL SIGN PANELS TYPE D AND SPECIAL SIGNS — AE

NOTES	SIGN NUMBER	LOCATION	MAIN STREET (CSAH 14) 02-614-19 114-020-19 QTY	INTERCHANGE 0212-40 114-010-11 QTY	MAIN STREET (TH 242) 0212-40 114-010-11 QTY	COON CREEK BOULEVARD (CSAH 18) 02-618-24 QTY	NORTHDALE BOULEVARD 114-127-02 QTY	124TH AVE. NW CROOKED LAKE BOULEVARD 114-136-02 QTY	SIGN LEGEND
	D	MAIN STREET (CSAH 14) STA 3+92 LT	1						ADOPT A HIGHWAY
	D	MAIN STREET (INTERCHANGE) STA 3+479 RT		1					ADOPT A HIGHWAY
	D	RAMP B		1					MN LOGO SIGN
1	D	RAMP C STA 7+82[illegible]		1					MN LOGO SIGN
	D	COON CREEK BOULEVARD STA 1+266 RT				1			ADOPT A HIGHWAY
		TOTAL TYPE D	**1**	**3**	**0**	**1**	**0**	**0**	
	SPECIAL	COON CREEK BOULEVARD STA 1+288 LT				1			STREET NAME SIGNS
	SPECIAL	124TH AVENUE NW STA 1+364 RT						1	STREET NAME SIGNS
	SPECIAL	124TH AVENUE NW STA 1+418 RT						1	STREET NAME SIGNS
	SPECIAL	124TH AVENUE NW STA 1+778 RT						1	STREET NAME SIGNS
		TOTAL TYPE SPECIAL	**0**	**0**	**0**	**1**	**0**	**3**	

NOTES:
1) SALVAGE ONLY, NOT TO BE REINSTALLED

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED QTY. CLEARANCE MARKER FOR NORTHDALE BLVD.
2	JJL	7/5/00	MOD. REQ. #36: REVISED DELINEATOR QUANTITY
3	IKR	7/14/00	MOD. REQ. #51: REVISED DELINEATOR QUANTITY
4	SAW	07/19/00	MOD. REQ. #12: REVISED LOGO SIGNS
5	JJL	6/13/01	MOD.REQ.#77: MOD. DELINEATORS FOR MAIN ST (TH 242)
6	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/JJL
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: SIGNTAB3
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
SIGN TABULATIONS

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 300 / 539

PLOT DATE: Aug 03, J4 11:11am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SIGN.dwg

PAVEMENT MARKINGS

AA

STATION TO STATION	NOTES	PAVEMENT MESSAGE (LT ARROW)	PAVEMENT MESSAGE (RT ARROW)	PAVEMENT MESSAGE (LT-THRU ARROW)	PAVEMENT MESSAGE (RT-THRU ARROW)	PAVEMENT MESSAGE (HOV)	100 mm SOLID LINE WHITE	200 mm SOLID LINE WHITE	100 mm BROKEN LINE WHITE [1]	100 mm SOLID LINE YELLOW	100 mm DOUBLE SOLID LINE YELLOW [2]	600 mm SOLID LINE WHITE	600 mm STOP LINE WHITE	600 mm SOLID LINE YELLOW	100 mm BROKEN LINE YELLOW [1]	200 mm DOTTED LINE WHITE [1]	ZEBRA CROSSWALK
		EACH	EACH	EACH	EACH	EACH	m	m	m	m	m	m	m	m	m	m	m2
SAP 02-614-19, SAP 114-020-19																	
MAIN STREET (CSAH 14)																	
1+770 TO 2+007.965			2				318						19				
2+007.965 TO 2+303.354		8	4				994	111	152	518			35			33	54
2+303.354 TO 2+614.359		8	4				1122		1080	546			40				58
2+614.359 TO 2+894.300		8	4				1056		192	488			42				60
2+894.300 TO 3+211.698		4	5				1109	13	238	600	12		25			42	44
RIVER RAPIDS DRIVE (SOUTH OF MAIN ST.)		2	1	1	1		262		12	126			13			13	24
RIVER RAPIDS DRIVE (NORTH OF MAIN ST.)			2				192		10	88			14				18
RIVERDALE VILLAGE BLVD. (SOUTH OF MAIN ST.)		5	1		1		426		36	24			25			10	24
RIVERDALE VILLAGE BLVD. (NORTH OF MAIN ST.)		2	1				318		12	28			14				24
SAP 02-614-19, SAP 114-020-19	**TOTAL**	**39**	**2**	**1**	**2**	**0**	**5797**	**124**	**1732**	**2740**	**12**	**0**	**227**	**0**	**0**	**98**	**306**
SP 0212-40, SAP 114-010-11																	
MAIN STREET / HWY 10/47 INTERCHANGE																	
3+211.698 TO 3+269.255							62		34	92			11			44	
3+269.255 TO 3+525.303		8					866		131	428			36			43	
RAMP A							258		22	256							16
RAMP B		4	8	4			1090	98		338							20
HIGHWAY 10/47 WESTBOUND 8+364 TO 8+615							156	95									
RAMP C		2	2	2			65[illegible]	90		294							15
HIGHWAY 10/47 EASTBOUND 7+626 TO 7+830							[illegible]08	90									
RAMP D						2	1372	322	62	968							12
HIGHWAY 10/47 EASTBOUND 8+380 TO 8+680							[illegible]36	66									
	SUBTOTAL	**14**	**10**	**6**	**0**	**2**	**4804**	**761**	**249**	**2376**	**0**	**0**	**47**	**0**	**0**	**87**	**63**
SP 0212-40, SAP 114-010-11																	
MAIN STREET (TH 242)																	
3+525.303 TO 4+005		8	2				1484	200	262	930	30		14	8		6	54
4+005 TO 4+248.576		0	2				570			30	390	9		175			67
COON CREEK BOULEVARD 1+023 TO 1+200		2	2				598		36	356						15	
	SUBTOTAL	**10**	**6**	**[illegible]**	**0**	**0**	**2652**	**200**	**298**	**[illegible]6**	**420**	**9**	**14**	**183**	**0**	**21**	**121**
SP 0212-40, SAP 114-010-11	**TOTAL**	**24**	**16**	**6**	**0**	**2**	**7456**	**961**	**547**	**3692**	**420**	**9**	**61**	**183**	**0**	**108**	**184**
SAP 02-618-24																	
COON CREEK BOULEVARD (CSAH 18)																	
COON CREEK BOULEVARD 1+200 TO 1+574.871		2	2				878		39	186	309		6	12		13	10
SAP 02-618-24	**TOTAL**	**2**	**2**	**0**	**0**	**0**	**878**	**0**	**39**	**186**	**309**	**0**	**6**	**12**	**0**	**13**	**10**
SAP 114-127-02				—													
NORTHDALE BOULEVARD																	
0+516.693 TO 0+835.064		2	1				667		32		512		10	100			21
0+835.064 TO 1+000		5	2				519		52	268			24				49
1+000 TO 1+280		8	1				660		84	396			27				31
SAP 114-127-02	**TOTAL**	**15**	**4**	**0**	**0**	**0**	**1846**	**0**	**168**	**664**	**512**	**0**	**61**	**100**	**0**	**0**	**101**
SAP 114-036-20																	
124TH AVENUE / CROOKED LAKE BOULEVARD																	
1+000 TO 1+890.110		11			2		1845			480	644		9	20	96		12
SAP 114-036-20	**TOTAL**	**11**	**0**	**0**	**2**	**0**	**1845**	**0**	**0**	**480**	**644**	**0**	**9**	**20**	**96**	**0**	**12**
PROJECT TOTAL		**91**	**46**	**7**	**4**	**2**	**17822**	**1085**	**2486**	**7762**	**1897**	**9**	**364**	**315**	**96**	**219**	**613**

NOTES:
[1] BROKEN LINES WILL BE MEASURED BY THE ACTUAL LINE MARKED AND WILL NOT INCLUDE THE GAP BETWEEN THE BROKEN LINES
[2] DOUBLE SOLID LINES WILL BE MEASURED BY THE ACTUAL LENGTH OF BOTH 100 MM LINES, IE A DOUBLE SOLID LINE WITH A CENTERLINE DISTANCE OF 1000 m WILL BE MEASURED AS 1000 m OF DOUBLE SOLID LINE INSTALLED

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

13 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED COLUMN FOR 600 mm STOP LINE WHITE.
			CSAH 14: REV. PVMT MARKINGS 0+900 TO 2+007.965.
			TH 242: ADDED 2 LT PVMT. MESSAGES AT PRIVATE DR.
			DEL. CROSSWALK AT E. & W. RAMPS, ADDED STOPBAR
2	JJL	7/5/00	MOD. REQ. #36: REVISED QUAN. FOR MENARDS ENTRANCE
3	IKR	7/14/00	MOD. REQ. #51: REVISED STRIPING QUANTITY (4+005, RT)
4	JJL	9/29/00	MOD. REQ. #69: MOD. QUANTITIES FOR ND BLVD
5	JJL	6/26/01	MOD. REQ. #101: MOD. QUANTITIES FOR RIVER RAPIDS DR.
6	JJL	7/30/01	MOD. REQ. #108: MOD. QUAN. FOR 242 LANE TRANSITION
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PJM/JJL
DESIGN BY: JJL
CHKED. BY: KPK
DWG. NAME: SIGNTAB4
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DEM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN. 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
PAVEMENT MARKING TABULATIONS

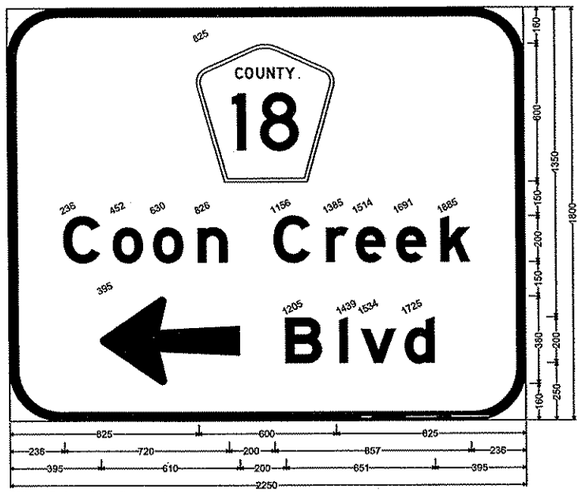
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 301 / 539

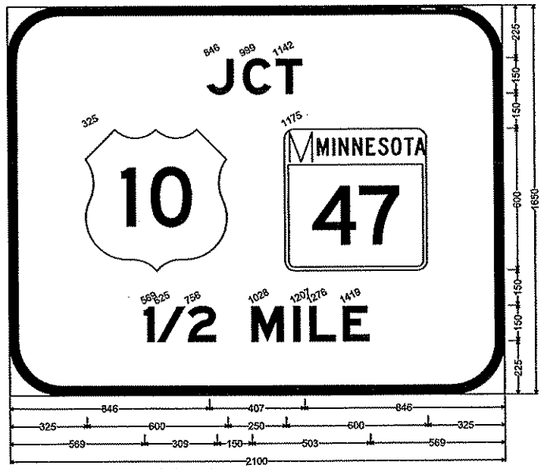
PLOT DATE: Aug 0_ J4 11:15am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SIGI .dwg
\PBOX

PBOX



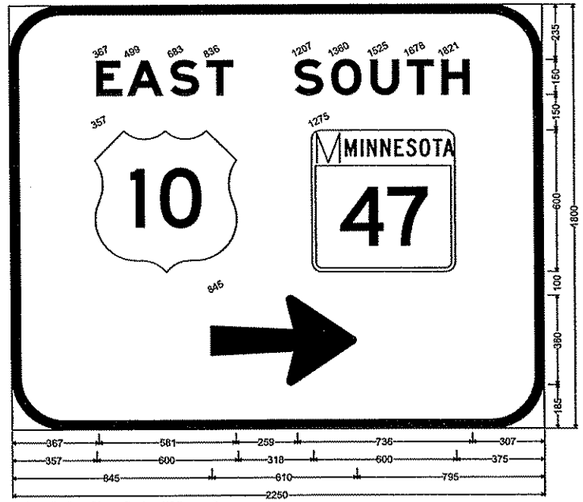
225mm Radius, 38mm Border, White on Green;
[Coon Creek] E Mod; Arrow 15 - 610mm 180°; [Blvd] E Mod;

SIGN DETAIL
D-5



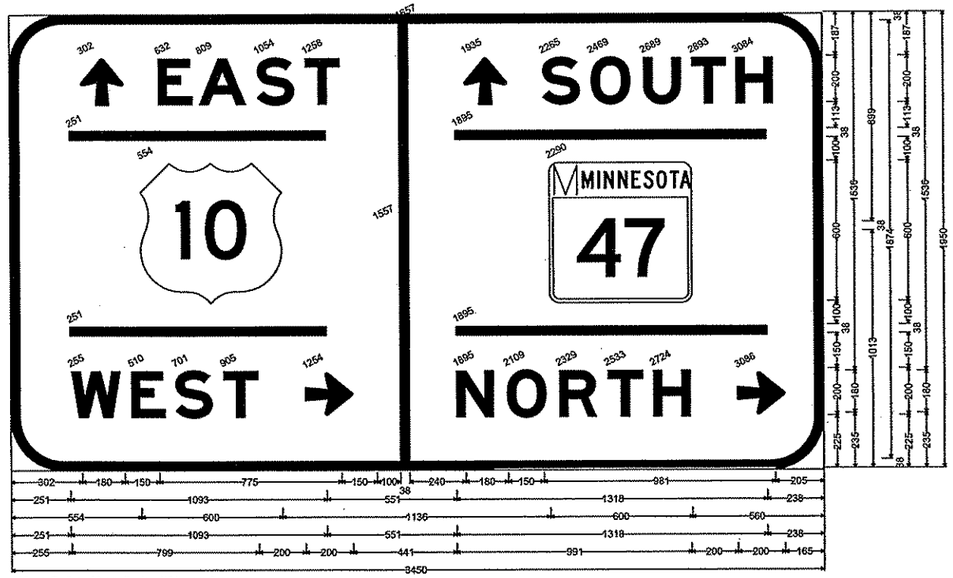
225mm Radius, 38mm Border, White on Green;
[JCT] E Mod; [1/2 MILE] E Mod;

SIGN DETAIL
D-1



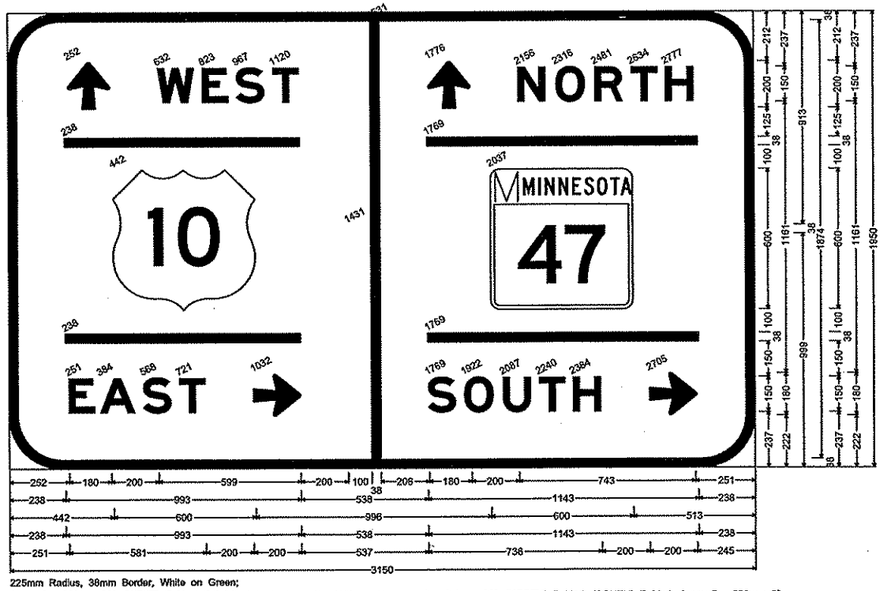
225mm Radius, 38mm Border, White on Green;
[EAST] E Mod; [SOUTH] E Mod; Arrow 15 - 610mm 0°;

SIGN DETAIL
D-3



225mm Radius, 38mm Border, White on Green;
Arrow 2 - 200mm 90°; [EAST] E Mod; [WEST] E Mod; Arrow 2 - 200mm 0°; Arrow 2 - 200mm 90°; [SOUTH] E Mod; [NORTH] E Mod; Arrow 2 - 200mm 0°;

SIGN DETAIL
D-4



225mm Radius, 38mm Border, White on Green;
Arrow 2 - 200mm 90°; [WEST] E Mod; [EAST] E Mod; Arrow 2 - 200mm 0°; Arrow 2 - 200mm 90°; [NORTH] E Mod; [SOUTH] E Mod; Arrow 2 - 200mm 0°;

SIGN DETAIL
D-2

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	SLP	12/30/99	MODIFIED SIGN DETAIL D-5 FROM UPPERCASE TO UPPER & LOWER CASE LETTERS.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP
DESIGN BY: SLP
CHKED. BY: PBD/KPK
DWG. NAME: 242WDET2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kidd
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
TYPE "D" SIGN DETAILS
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

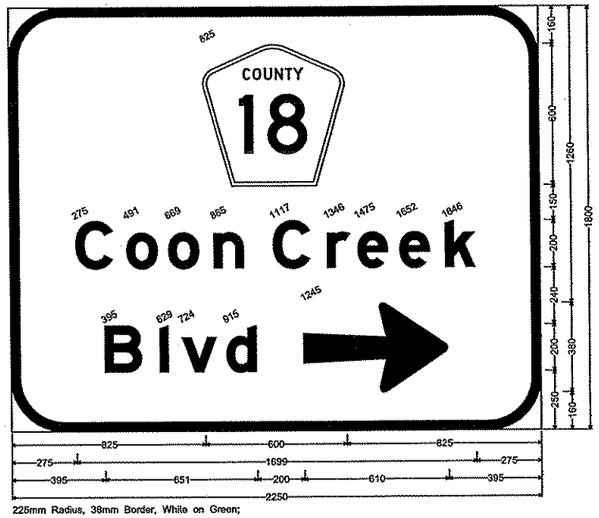
SHEET NO. 302 / 539

PLOT DATE: Aug 6, 2004 11:27am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SI...GRING\242WDET2.dwg



152mm Radius, 32mm Border, White on Green;
[EAST] E Mod; Arrow 5 - 330mm 180°;

SIGN DETAIL
D-12



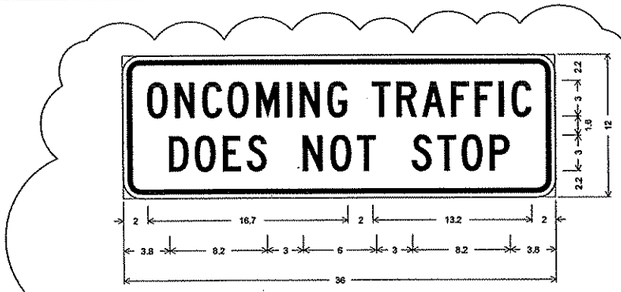
225mm Radius, 38mm Border, White on Green;
[CoonCreek] E Mod; [Blvd] E Mod; Arrow 15 - 610mm 0°;

SIGN DETAIL
D-6



152mm Radius, 32mm Border, White on Green;
[EAST] E Mod; Arrow 5 - 330mm 0°;

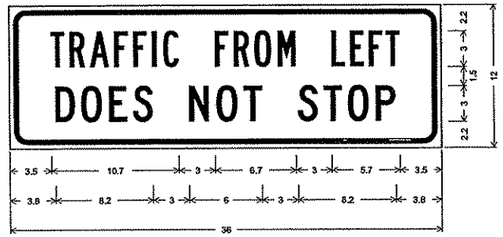
SIGN DETAIL
D-11



1.5" Radius, 0.4" Border, 0.4" Indent, Black on White;
[ONCOMING TRAFFIC] White C;
[DOES NOT STOP] White C;

SIGN DETAIL
C-74

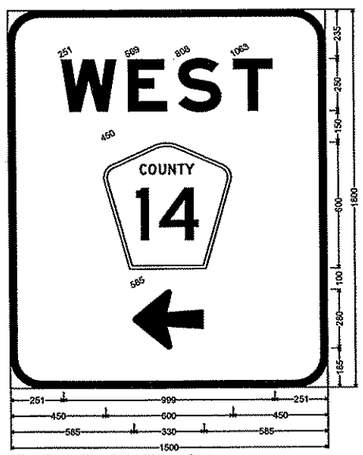
NOTE: DIMENSIONS FOR C-74 ARE IN INCHES



1.5" Radius, 0.4" Border, 0.4" Indent, Black on White;
[TRAFFIC FROM LEFT] White B;
[DOES NOT STOP] White C;

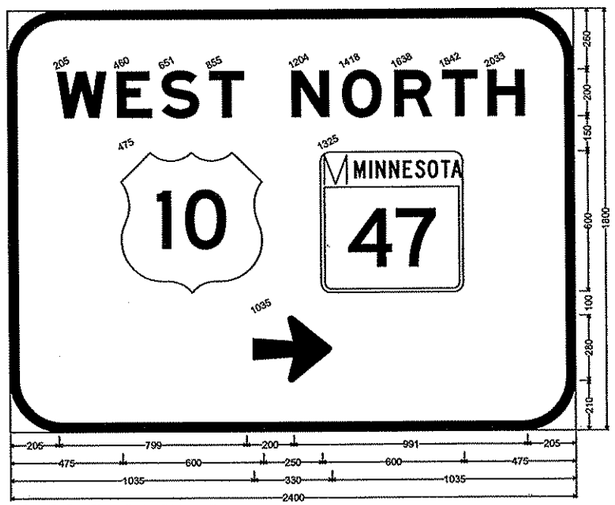
SIGN DETAIL
C-75

NOTE: DIMENSIONS FOR C-75 ARE IN INCHES



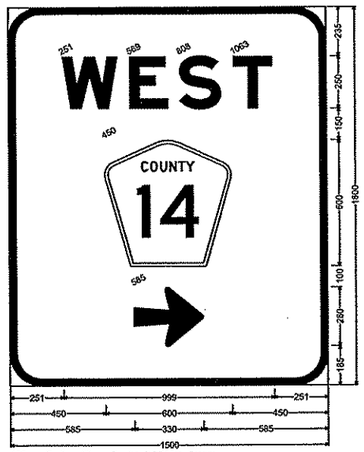
152mm Radius, 32mm Border, White on Green;
[WEST] E Mod; Arrow 5 - 330mm 180°;

SIGN DETAIL
D-10



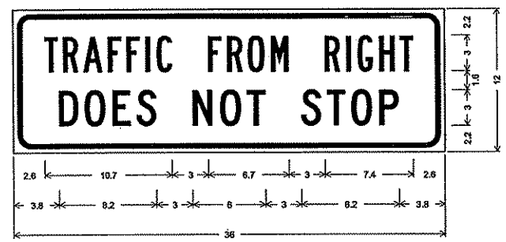
225mm Radius, 38mm Border, White on Green;
[WEST NORTH] E Mod; Arrow 5 - 330mm 0°;

SIGN DETAIL
D-15



152mm Radius, 32mm Border, White on Green;
[WEST] E Mod; Arrow 5 - 330mm 0°;

SIGN DETAIL
D-13



1.5" Radius, 0.4" Border, 0.4" Indent, Black on White;
[TRAFFIC FROM RIGHT] White B;
[DOES NOT STOP] White C;

SIGN DETAIL
C-76

NOTE: DIMENSIONS FOR C-76 ARE IN INCHES

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	SLP	12/30/99	MODIFIED SIGN DETAIL D6 FROM UPPER CASE TO UPPER & LOWER CASE LETTERS. ADDED SIGN DETAIL D-15.
2	IKR	06/26/01	MOD.REQ.#101: ADDED TYPE C SIGN DETAILS (74,75&76)
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP
DESIGN BY: SLP
CHKED. BY: PBD/KPK
DWG. NAME: 242WDET3
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)

TYPE "C" AND TYPE "D" SIGN DETAILS

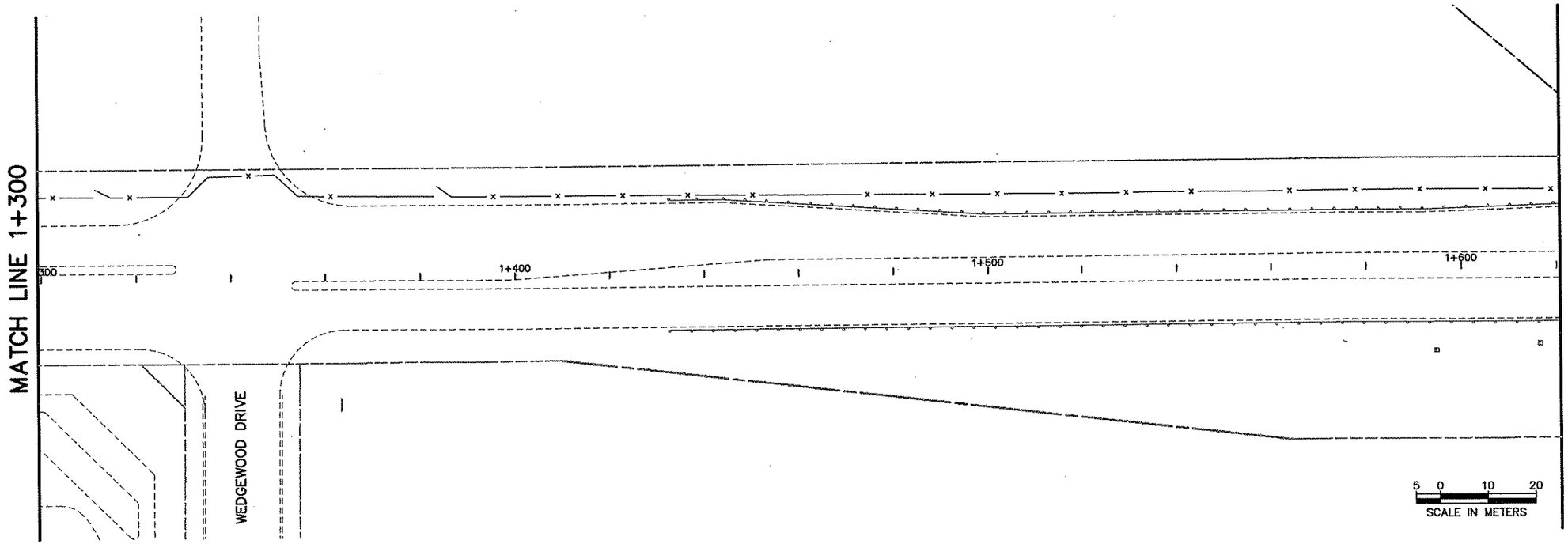
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 303 / 539

PLOT DATE: Jun 26, _J01 1:55pm DISK FILE NAME: (15.0) R:\33889\33889028\33889W\PLAN_SH1___JRING\242WDET3.dwg

DRAWINGS
D-SGN
2-ESUM
_STRIPE
PBOX
2MHETO
2-AI IW
2F



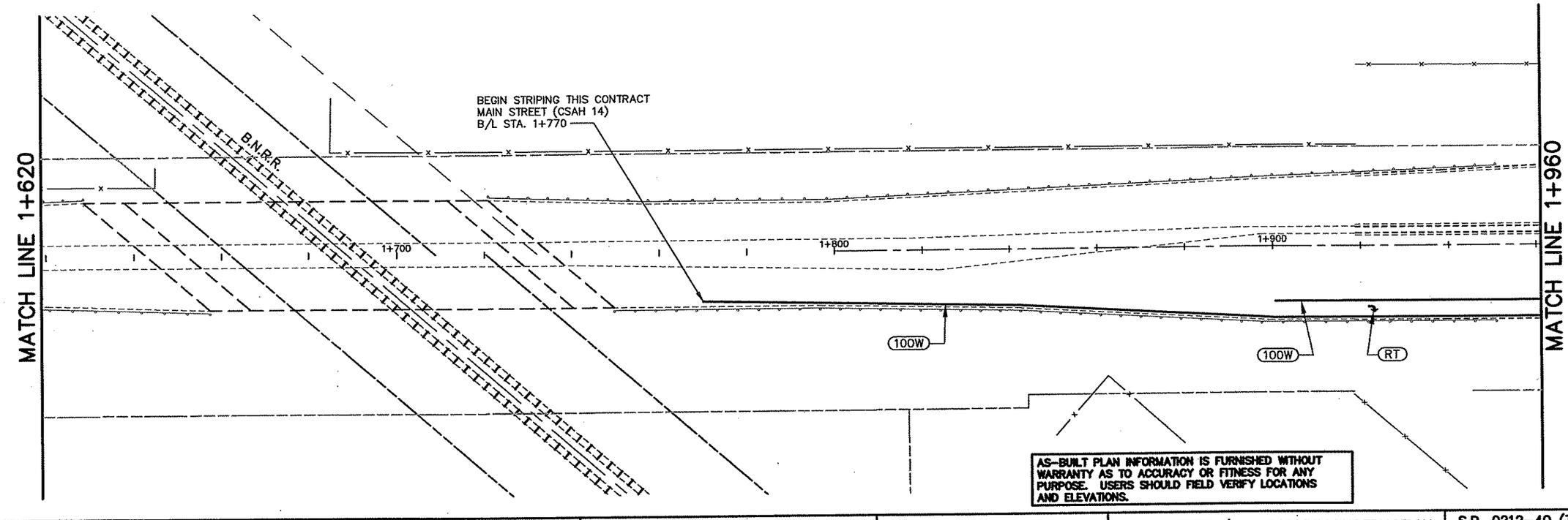
PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND–6m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T–RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGN LEGEND NOTES 3,4,5 & 6
			OMITTED PREV. SHEET; STRIPING 0+900 TO 1+770
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP
DESIGN BY: SAW
CHKED. BY: KPK
DWG. NAME: 242WSG08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/05/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
SIGNING & STRIPING
STATION 1+300.000 TO STATION 1+960.000

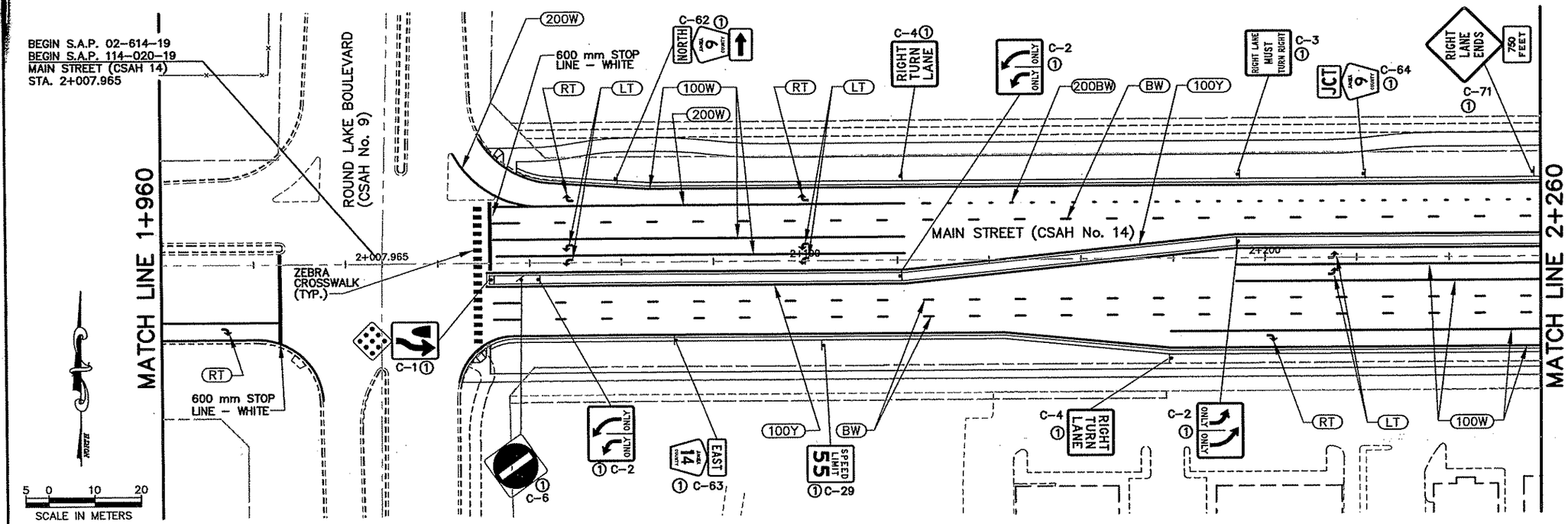
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

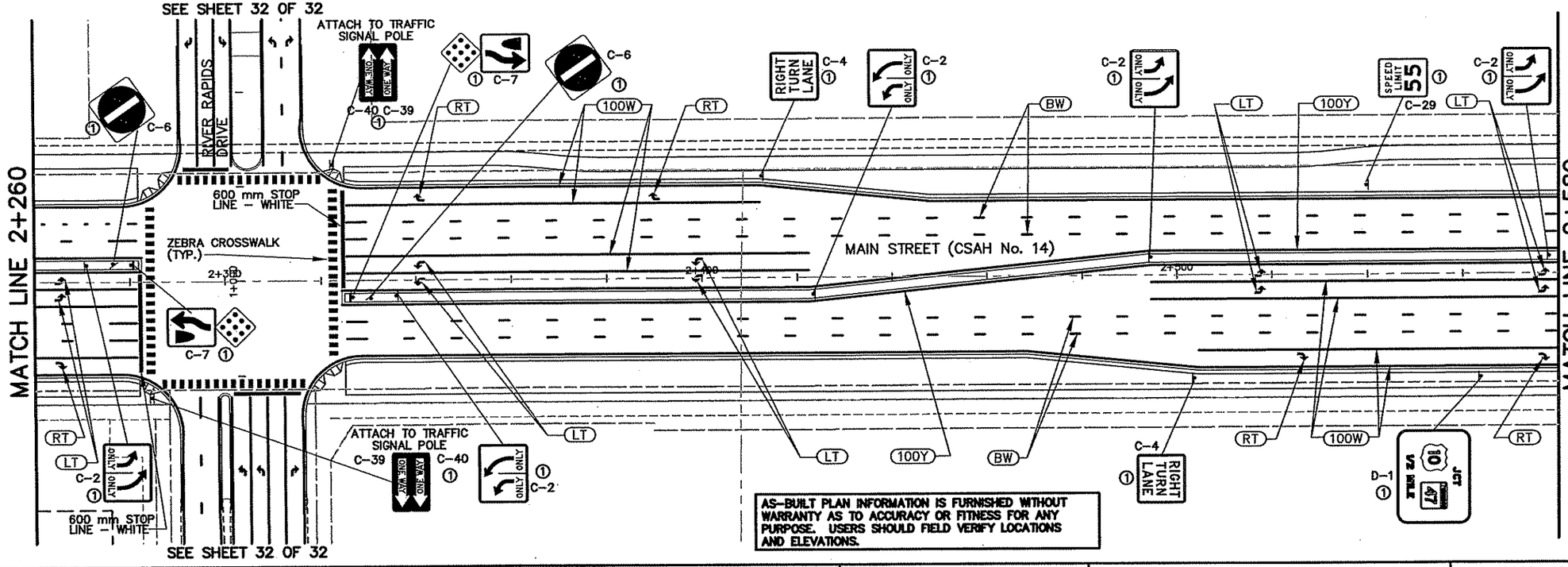
SHEET NO. 304 / 539

PLOT DATE: Apr 6 ,04 3:42pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S GRING\242wsg08.dwg

DRAWING
2-ESUM
2-BASE
STRIPE
D-SGN
PBOX
2METO
2-
2F



SEE SHEET 32 OF 32



SEE SHEET 32 OF 32

PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND–6m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T–RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED "TH 242" TO "CSAH 14" AT BEGIN STA.
			DELETED SIGN LEGEND NOTES 3,4,5 & 8. CHANGED C-1 TO C-7 ON MAIN ST. MEDIAN AT RIVER RAPIDS DR.
			DELETED DIRECTIONAL ARROW FROM C-84
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP | DESIGN BY: SAW
CHKED. BY: KPK | DWG. NAME: 242WSG01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
SIGNING & STRIPING
STATION 2+007.965 TO STATION 2+580.000

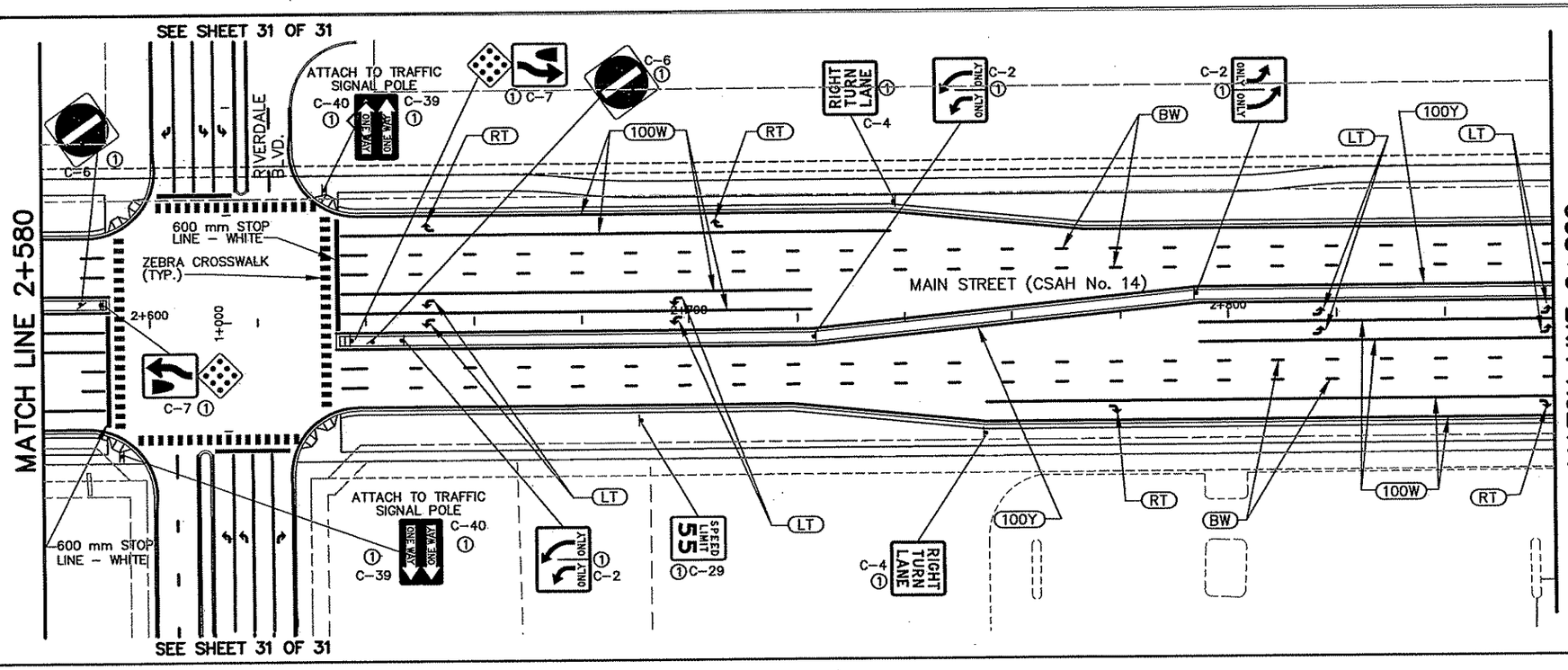
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 305 / 539

PLOT DATE: Apr 04 3:38pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S GRING\242wsg01.dwg

DRAWINGS
-ESUM
-EASE
STRIPE
BOX
-SGN
MH
PLI



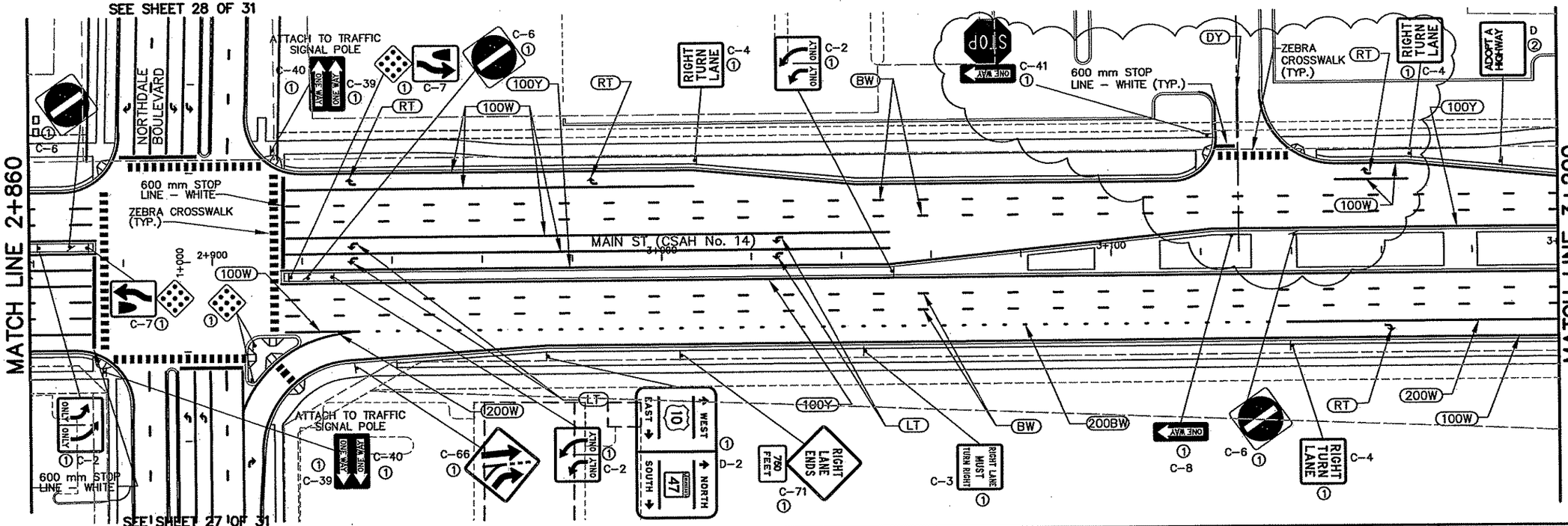
PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

(100W)	100 mm SOLID LINE–WHITE
(BW)	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
(200BW)	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
(200W)	200 mm SOLID LINE–WHITE (CHANNELIZING)
(100Y)	100 mm SOLID LINE–YELLOW
(DY)	100 mm DOUBLE SOLID YELLOW
(600Y)	600 mm SOLID LINE–YELLOW (PAINTED ISLAND–6m SPACING @ 45°)
(RT)	PAVEMENT MESSAGE, RT.
(T–RT)	PAVEMENT MESSAGE, THRU/RT
(LT)	PAVEMENT MESSAGE, LT.
(HOV)	PAVEMENT MESSAGE, HOV DIAMOND



AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

18 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGN LEGEND NOTES 3,4,5, & 6. CHANGED SIGN No. C–1 TO C–7 ON MAIN ST. MEDIAN AT RIVERDALE VILLAGE BLVD. & NORTHDALE BLVD.
2	JJL	7/5/00	MOD. REQ. #36: REVISED MENARDS ENTRANCE
3	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP | DESIGN BY: SAW
CHKED. BY: KPK | DWG. NAME: 242WSG02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
SIGNING & STRIPING
STATION 2+580.000 TO STATION 3+200.000

CITY PROJECT 98–20

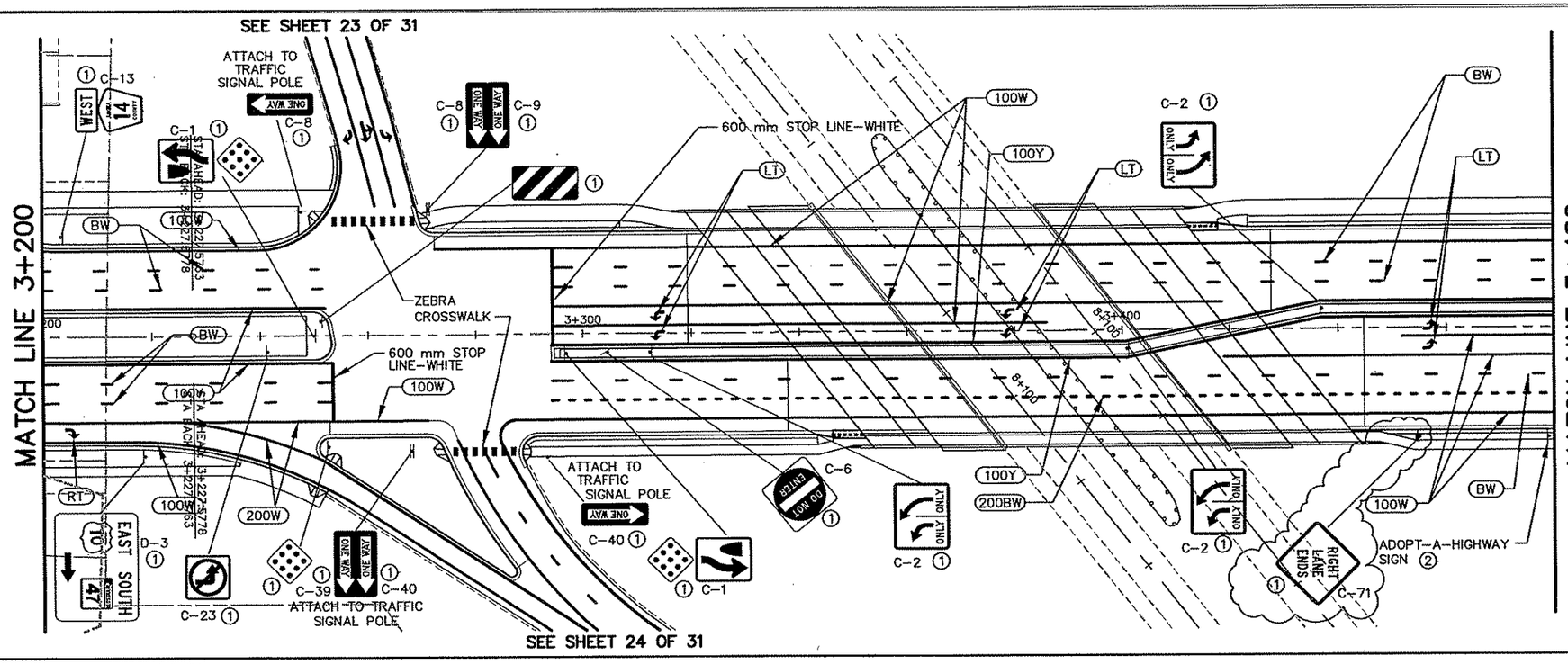
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 306 / 539

PLOT DATE: Apr 04, 2004 3:39pm DISK FILE NAME: (15.06) R:\33889\33889028\33889WPLAN_SH1_...\RING\242wsg02.DWG

DRAWINGS

2MHETO
2—ESUM
_STRIPE
STRIPE
PBOX
2P
2L
2E-...1

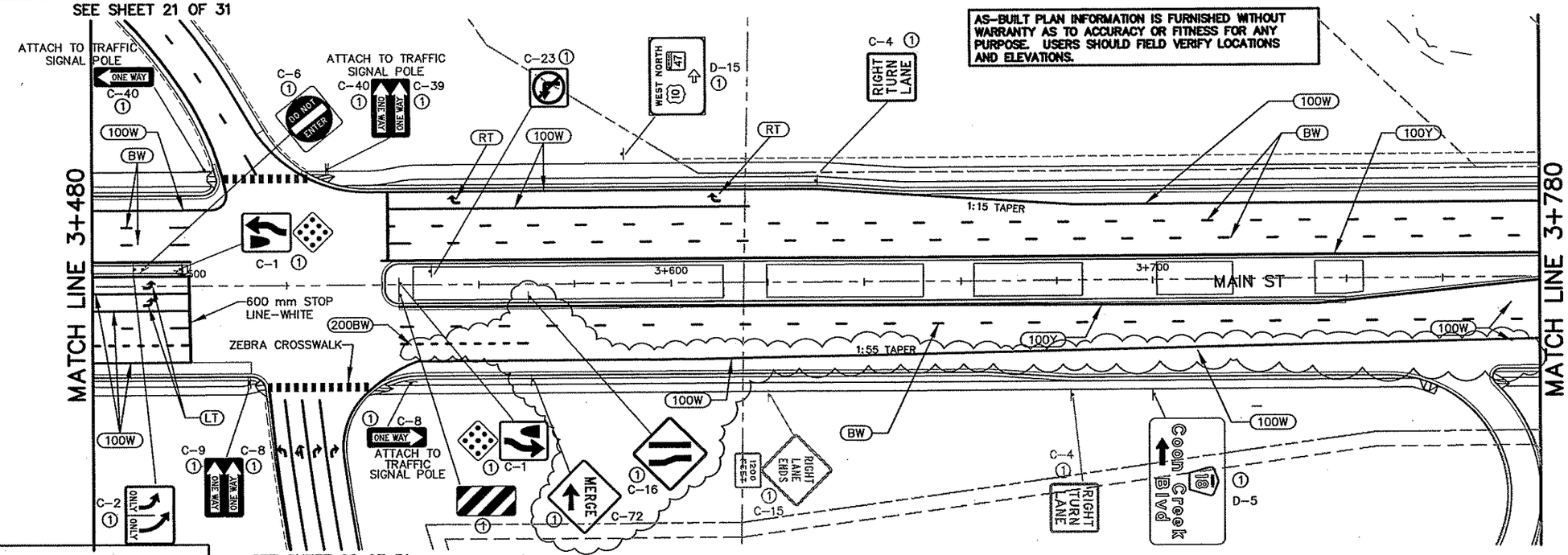


① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

100W	100 mm SOLID LINE—WHITE
BW	100 mm BROKEN LINE—WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE—WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE—WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE—YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE—YELLOW (PAINTED ISLAND — 6 m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T—RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND
KEEP OFF MEDIAN	FUTURE SIGNS

5 0 10 20
HORIZONTAL SCALE IN METERS



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

5 0 10 20
HORIZONTAL SCALE IN METERS

19 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED END/BEGIN STA, ADDED SAP No.s
			ADDED CSAH 14 TO SHEET TITLE, DEL. SIGNING LEGEND
			NOTES 3,4,5 & 6. DELETED CROSSWALK, ADDED STOPBAR
			AT MAIN ST. STA. 3+256 & 3+539.
			DELETED EB MN ROUTE MARKER & DIRECTIONAL SIGN.
			CHANGED C-3 TO C-14(EB), ADDED 200 mm SOLID LINE
			WHITE & PERM. BARRICADES AT FREE RT.TO THEATRE SITE
			MOVED D-15 FROM MAST ARM TO WB 3+590, LT.
2	JJL	7/5/00	MOD. REQ. #36: REMOVED RETAINING WALL
3	JJL	6/13/01	MOD. REQ. #77: REVISED SIGNS
4	JJL	7/30/01	MOD. REQ. #108: REVISED SIGNS AND STRIPING
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR/SLP | DESIGN BY: SAW
CHKED. BY: KPK | DWG. NAME: 242ESG01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H.242)
SIGNING & STRIPING
STATION 3+200.000 TO STATION 3+780.000

CITY PROJECT 98—20

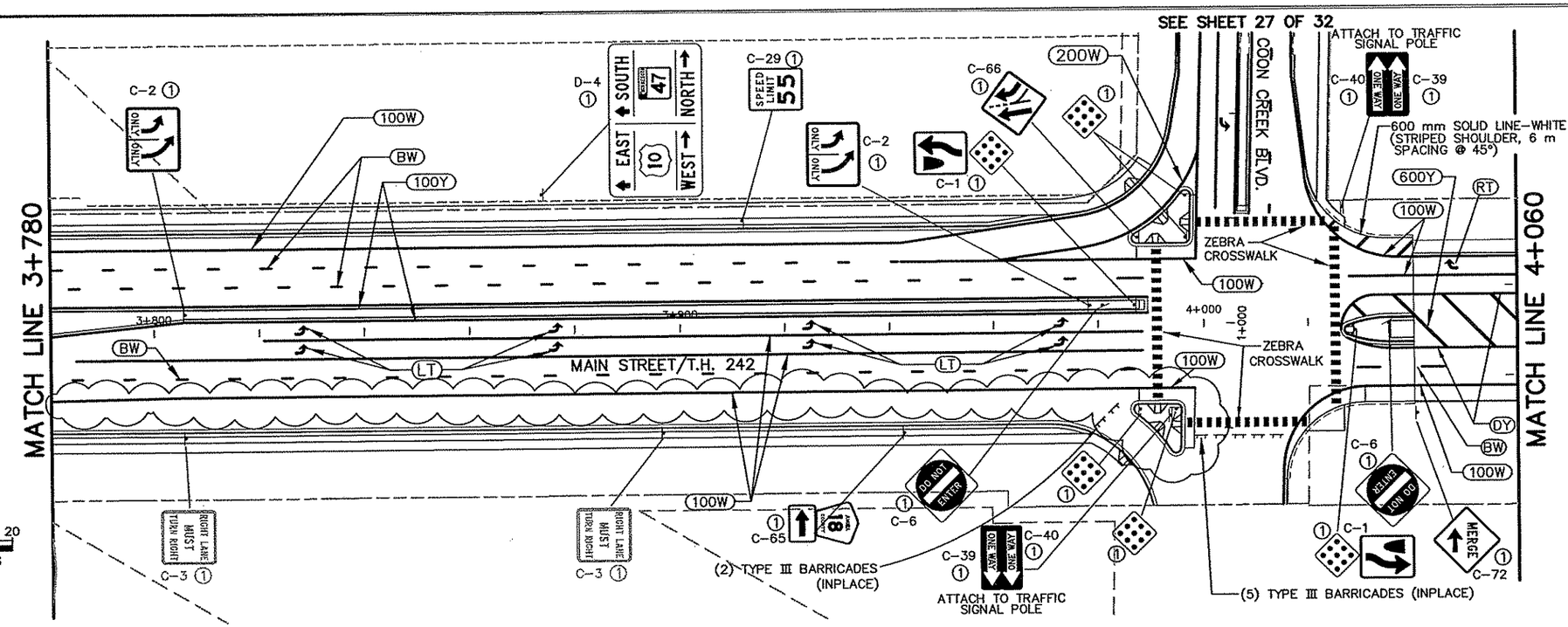
S.P. 0212—40 (T.H.242=242)	
S.A.P.	02 — 614 — 19
S.A.P.	02 — 618 — 24
S.P.	114 — 010 — 11
S.A.P.	114 — 020 — 19
S.A.P.	114 — 136 — 02
S.A.P.	114 — 127 — 02

SHEET NO. 307 / 539

PLOT DATE: Aug 03, ...04 11:59am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SH\...2esg01.dwg

DRAWINGS

2MHETO
2PLN2A
2-ESUM
STRIPE
PBOX
2E
2E



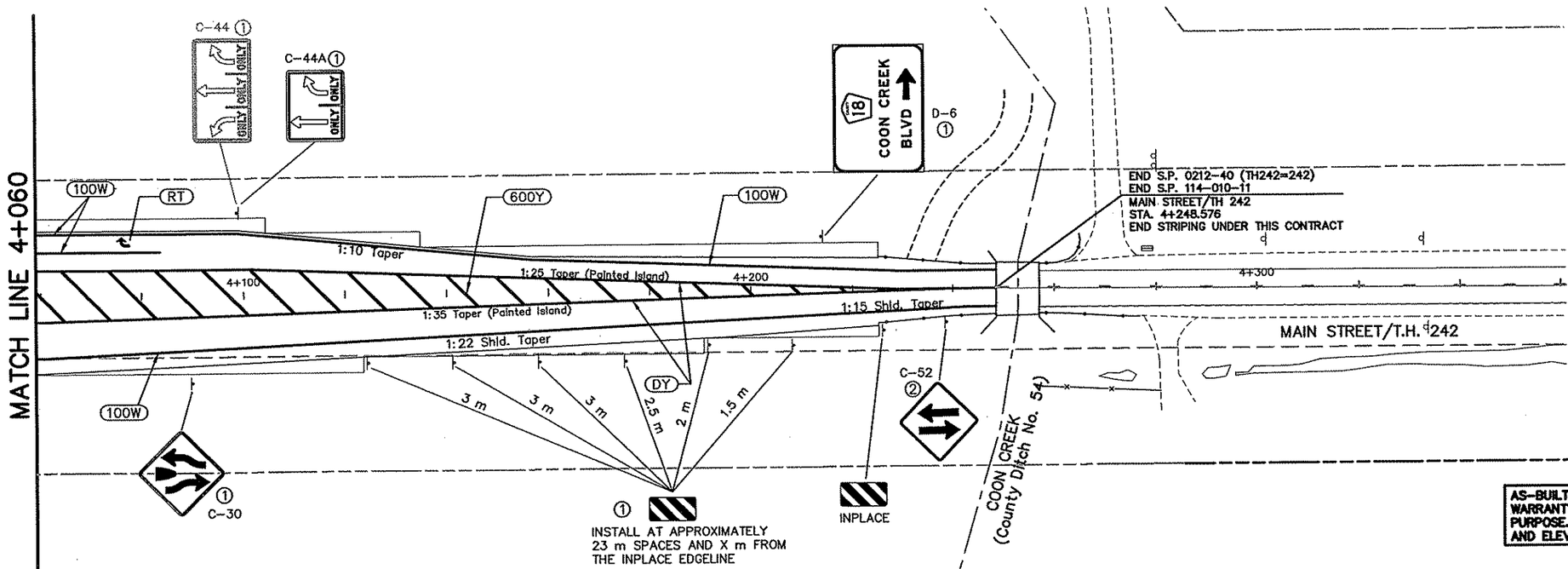
PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND – 6 m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T–RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND
KEEP OFF MEDIAN	FUTURE SIGNS



AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGN LEGEND NOTES 3,4,5, & 6
			DELETED D/W AT 3+852.540
			CHANGED C–16 TO C–30 (EB)
			ADDED LT PVMT. MESSAGES AT PRIVATE DR.
			ADDED PERMANENT BARRICADES AT PRIVATE DRIVE
2	IKR	7/14/00	MOD.REQ.#51: 4+005, RT (PRIVATE DR), DELETED MEDIAN, REVISED STRIPING & SIGNING.
3	JJL	6/13/01	MOD.REQ.#77: ADD X4–4 & W20–X3L, DEL. W9–1R
4	JJL	7/12/01	MOD. REQ. #103: MODIFIED MEDIAN STRIPING
5	JJL	7/30/01	MOD. REQ. #108: MODIFIED TH 242 TAPER STRIPING
6	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR/SLP
DESIGN BY: SAW
CHKED. BY: KPK
DWG. NAME: 242ESG02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H.242)
SIGNING & STRIPING
STATION 3+780.000 TO STATION 4+248.576

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 308 / 539

PLOT DATE: Aug 03, 2004 12:08pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SHT\242esg02.dgn

DRAWINGS
2-ESUM
STRIPE
PBOX
HPLAN
2E-PLN
2E-

PERMANENT SIGNING LEGEND

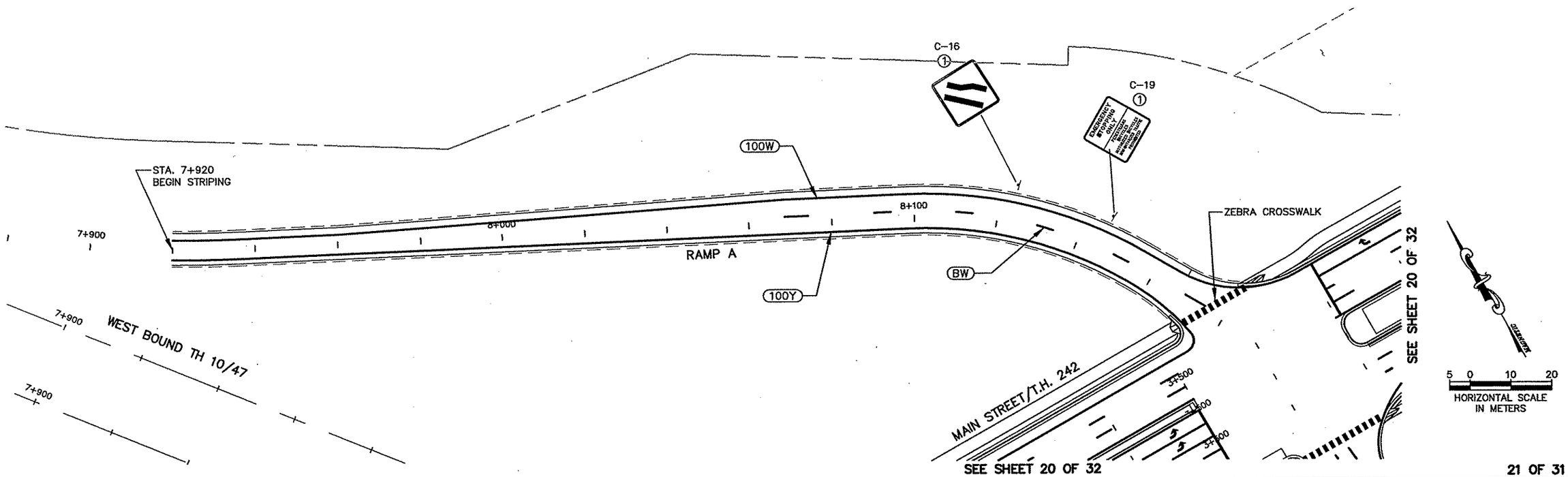
① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

(100W)	100 mm SOLID LINE–WHITE
(BW)	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
(200BW)	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
(200W)	200 mm SOLID LINE–WHITE (CHANNELIZING)
(100Y)	100 mm SOLID LINE–YELLOW
(DY)	100 mm DOUBLE SOLID YELLOW
(600Y)	600 mm SOLID LINE–YELLOW (PAINTED ISLAND – 6 m SPACING @ 45°)
(RT)	PAVEMENT MESSAGE, RT.
(T–RT)	PAVEMENT MESSAGE, THRU/RT
(LT)	PAVEMENT MESSAGE, LT.
(HOV)	PAVEMENT MESSAGE, HOV DIAMOND

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



21 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR/SLP
DESIGN BY: SAW
CHKED. BY: KPK
DWG. NAME: 242ESG04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
SIGNING & STRIPING
STATION 7+920.000 TO STATION 8+182.376

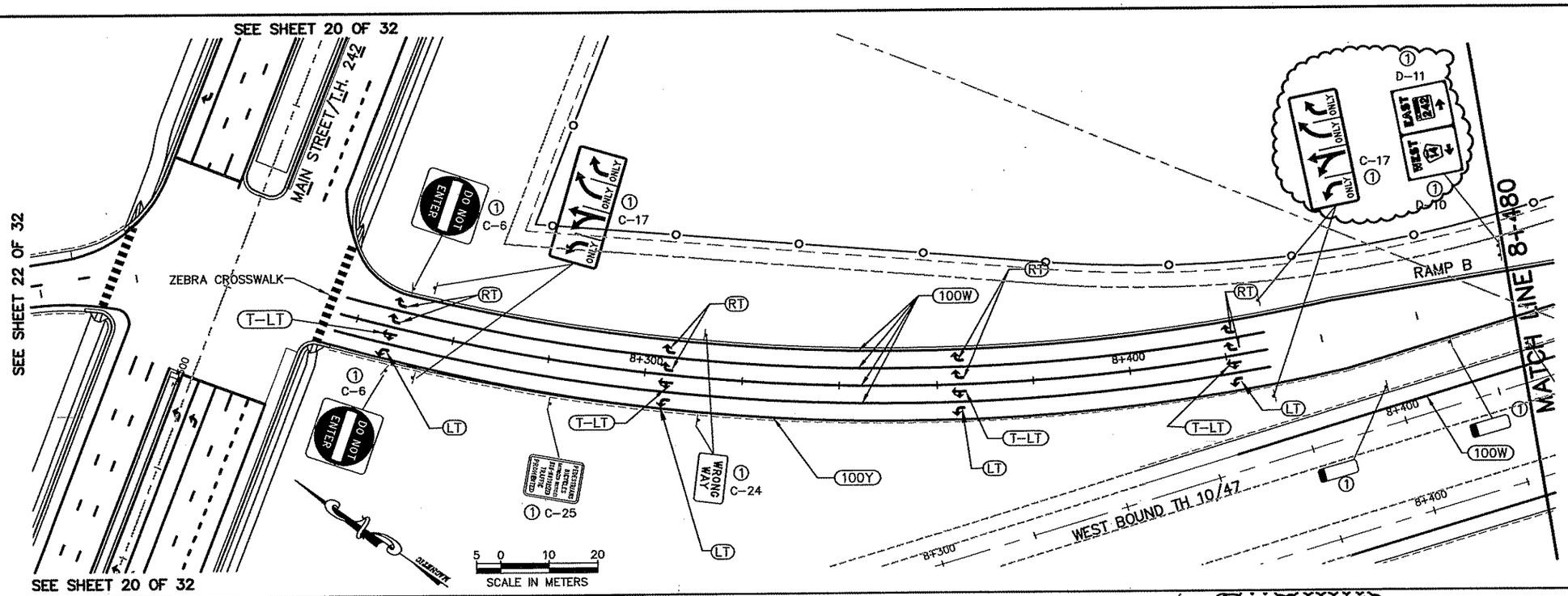
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 309 / 539

PLOT DATE: Dec 24, '99 10:20am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\esg04.dwg

DRAWINGS
2MHETO
2-ESUM
STRIPE
PBOX
2E-PLN
2E-
PLOT DATE: Jul 19, J 2:16pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\3389\3388902B\E\PLAN-SHT\242esg05.dwg



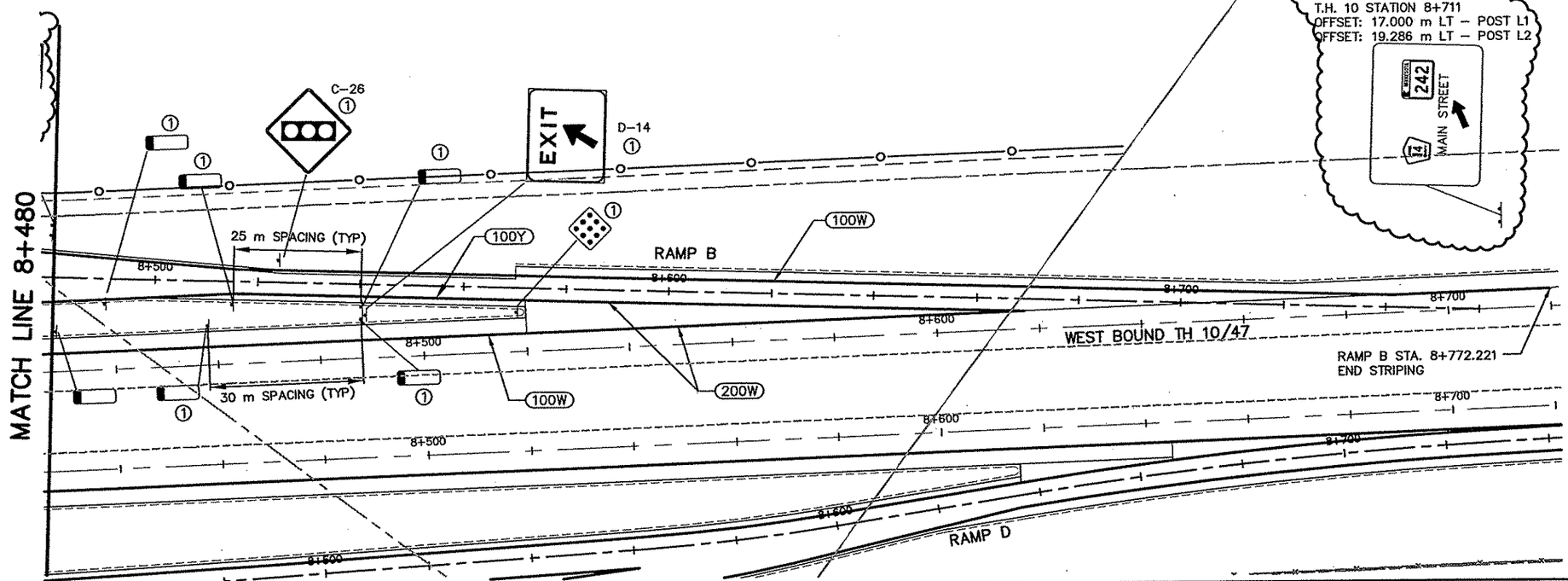
PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

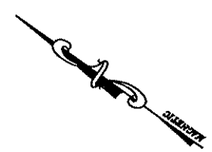
PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND – 6 m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T-RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND



② SALVAGE AND INSTALL
SIGN TYPE A (A1)
T.H. 10 STATION 8+711
OFFSET: 17.000 m LT – POST L1
OFFSET: 19.286 m LT – POST L2

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



22 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	SAW	7/19/00	MOD. REQ. #12: TYPE "A" SIGN LOCATION AND NOTE D–10, D–11, C–17 LOC., DELETED LOGO SIGN
3	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR/SLP | DESIGN BY: SAW
CHKED. BY: KPK | DWG. NAME: 242ESG05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

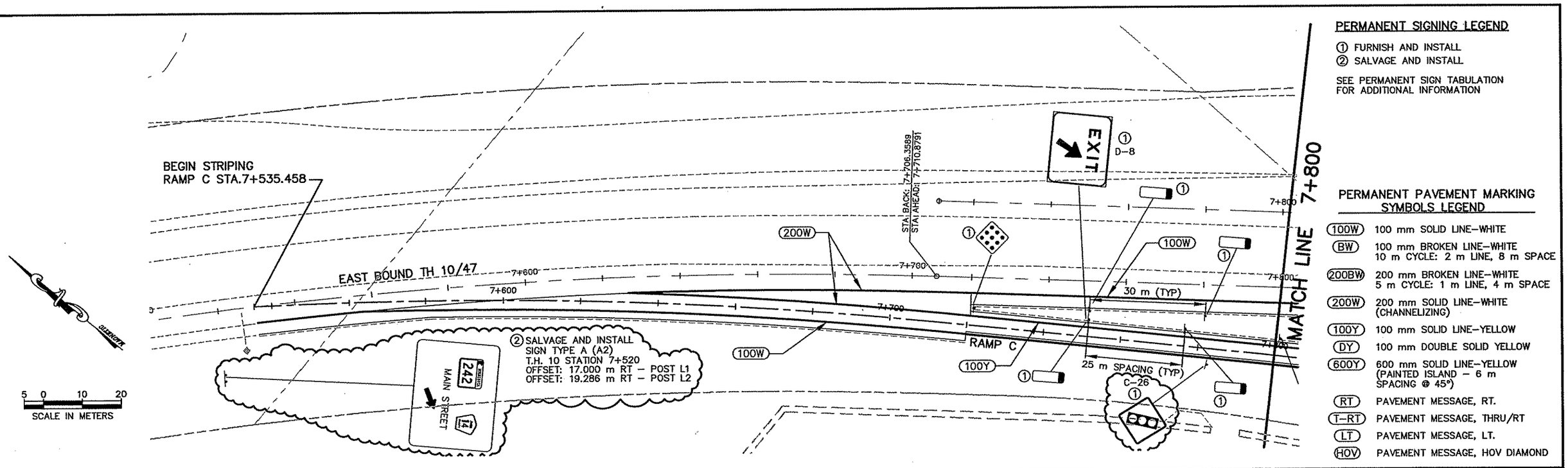
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B, RAMP B ACCESS AREA
SIGNING & STRIPING
STATION 8+221.272 TO STATION 8+772.221

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 310 / 539

EF DRAWINGS
·2PLNW
·2–ESUM
·STRIPE
·PBOX
·2MHETO
·2F N
·2



PERMANENT SIGNING LEGEND

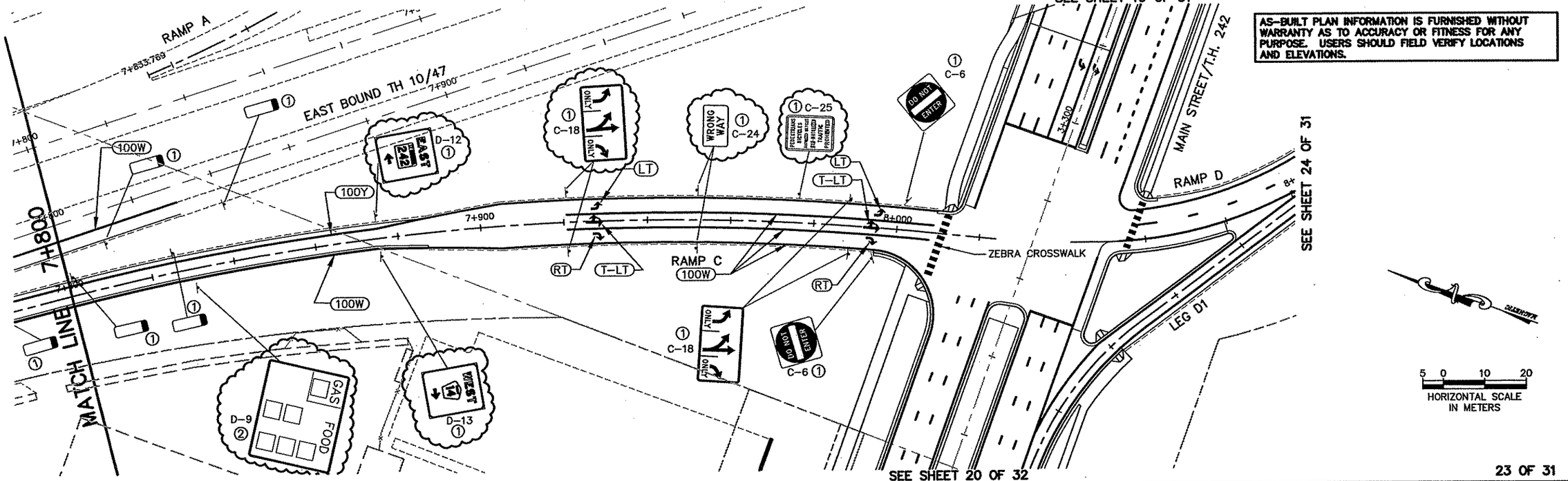
① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND – 6 m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T–RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND

SEE SHEET 19 OF 31



SEE SHEET 24 OF 31

SEE SHEET 20 OF 32

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	JJL	7/5/00	MOD. REQ. #36: REMOVED RETAINING WALL
3	SAW	7/19/00	MOD. REQ. #12: TYPE "A" SIGN LOC./NOTE, D-13 NOTE C-26, D-9, D-12, D-13, C-18, C-24, C-25 LOC.
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR/SLP
DESIGN BY: SAW
CHKED. BY: KPK
DWG. NAME: 242ESG06
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP C ACCESS AREA, 242 RAMP C
SIGNING & STRIPING
STATION 7+535.458 TO STATION 8+015.901

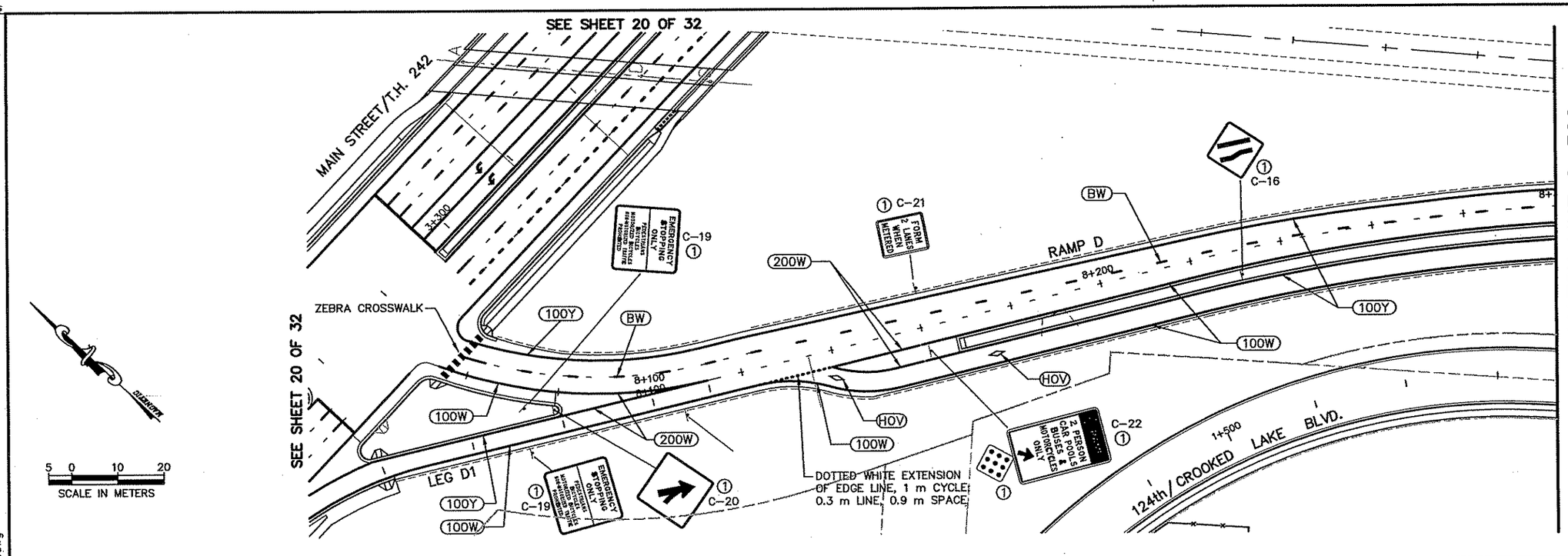
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 311 / 539

PLOT DATE: Jul 19, 2000 2:23pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\3...\E\PLAN–SHT\242esg06.dwg

DRAWINGS
12MHETO
12PLNW
12-ALIW
12-ESUM
_STRIPE
\PR
12
12L



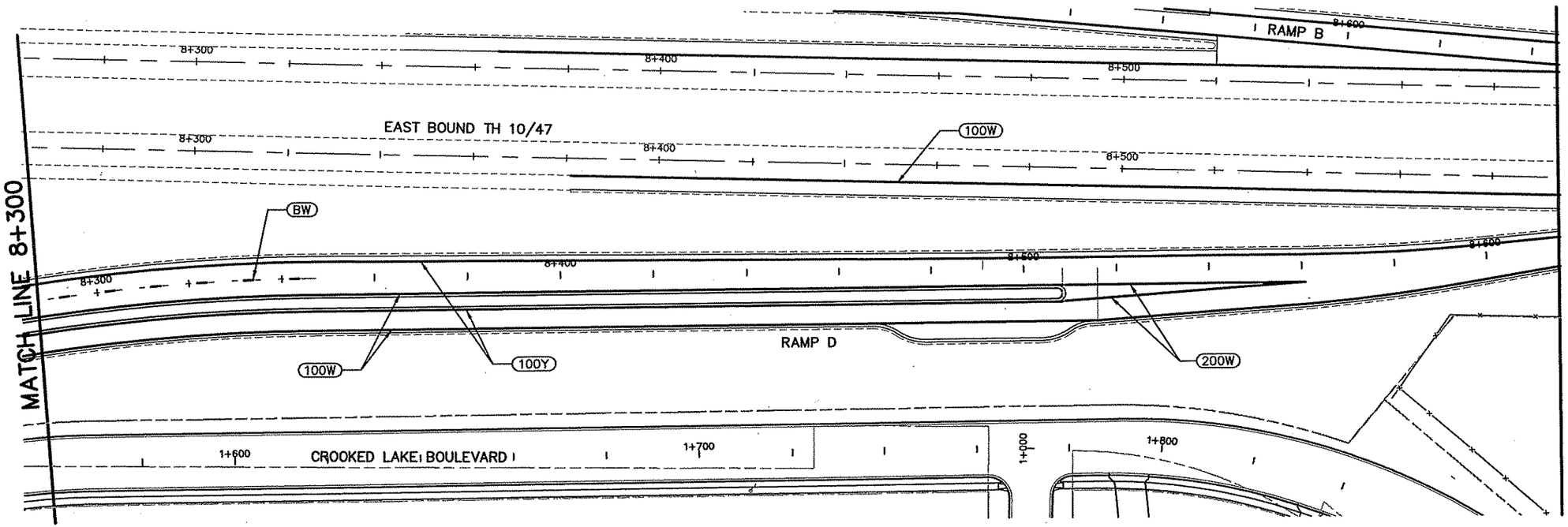
PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND – 6 m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T-RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	TSR	2/27/04	ADDED RAMP D PATROL PAD
			AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR/SLP
DESIGN BY: SAW
CHKED. BY: KPK
DWG. NAME: 242ESG07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 328.18.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

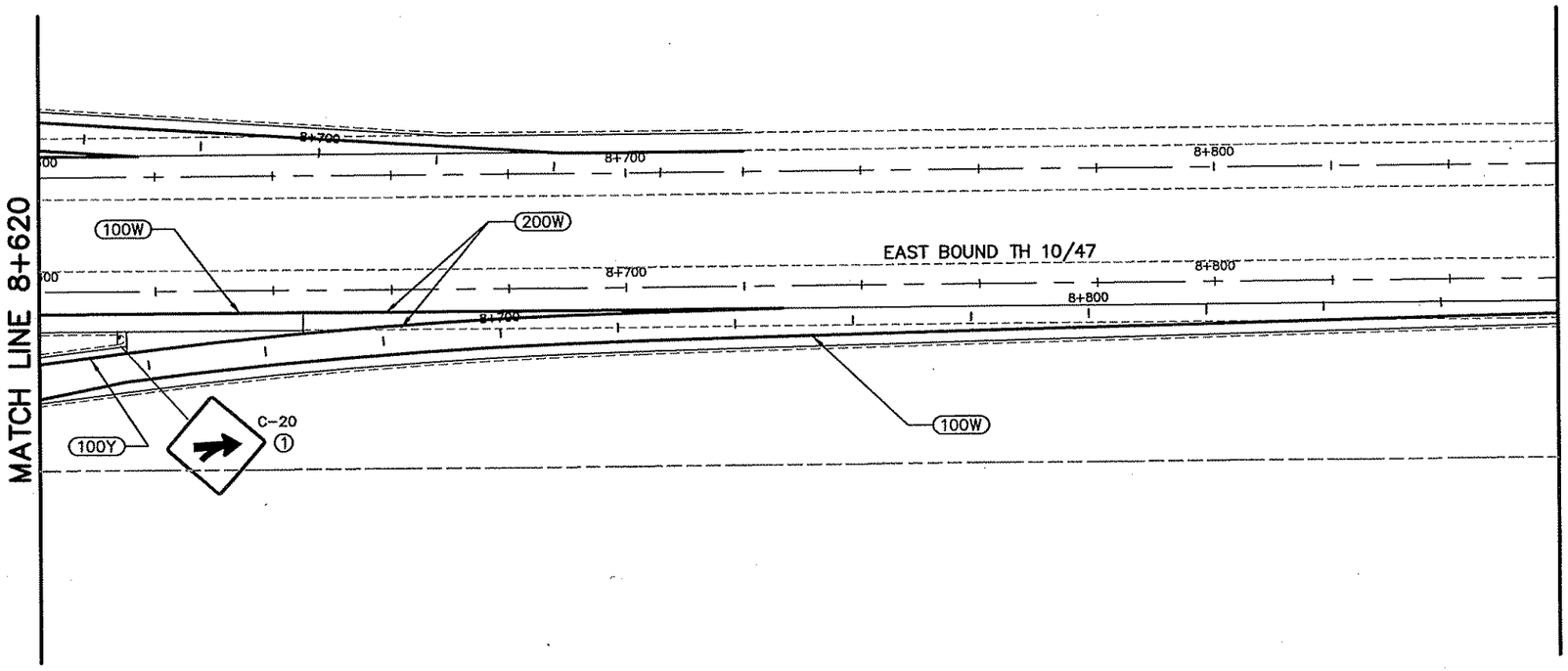
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D & 242 LEG D1
SIGNING & STRIPING
RAMP D: STATION 8+049.181 TO STATION 8+620.000
LEG D1: STATION 8+002.908 TO STATION 8+112.468
CITY PROJECT 98-20

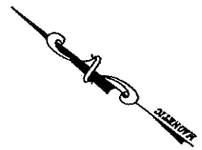
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 312 / 539

PLOT DATE: Dec 24, 1999 10:24am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\r-r2esg07.dwg

P DRAWINGS
42--ESUM
_STRIPE
APBOX
42MHETO
42E-PLN
42F- AL I





5 0 10 20
SCALE IN METERS

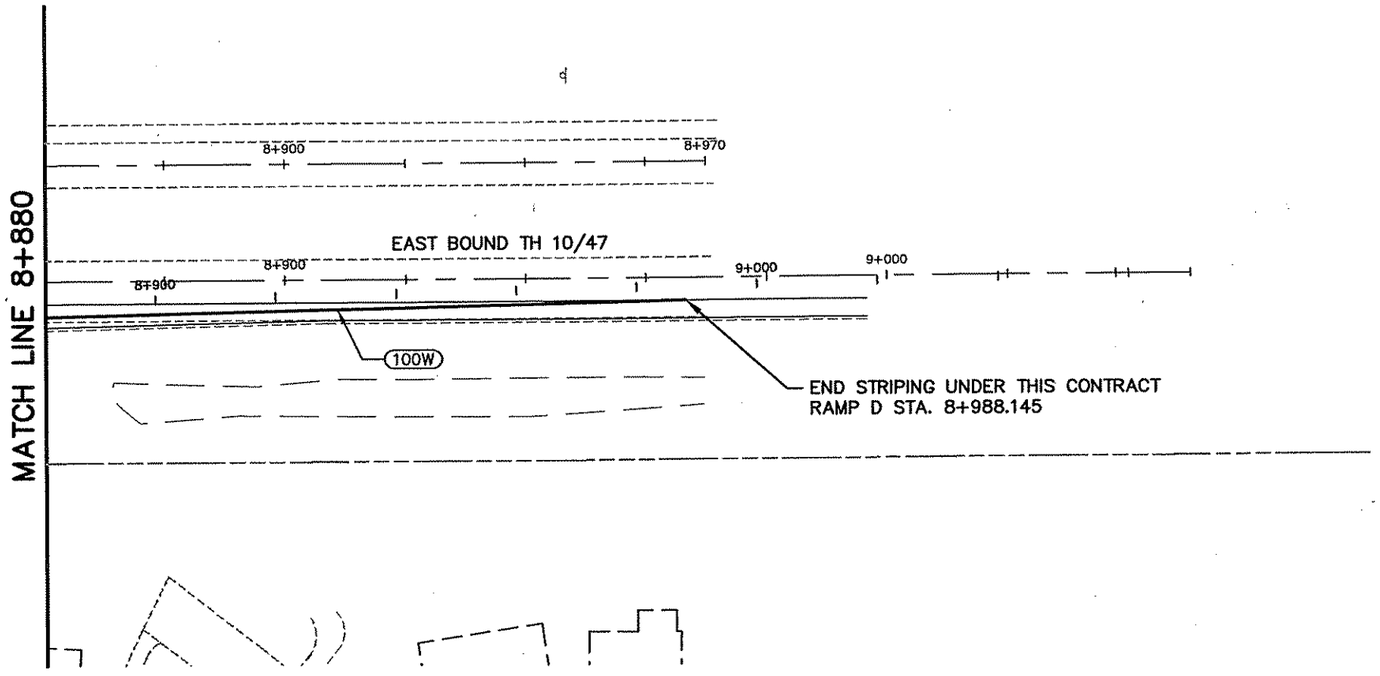
PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND – 6 m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T–RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND





5 0 10 20
HORIZONTAL SCALE IN METERS

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR/SLP
DESIGN BY: SAW
CHKED. BY: KK
DWG. NAME: 242ESG08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

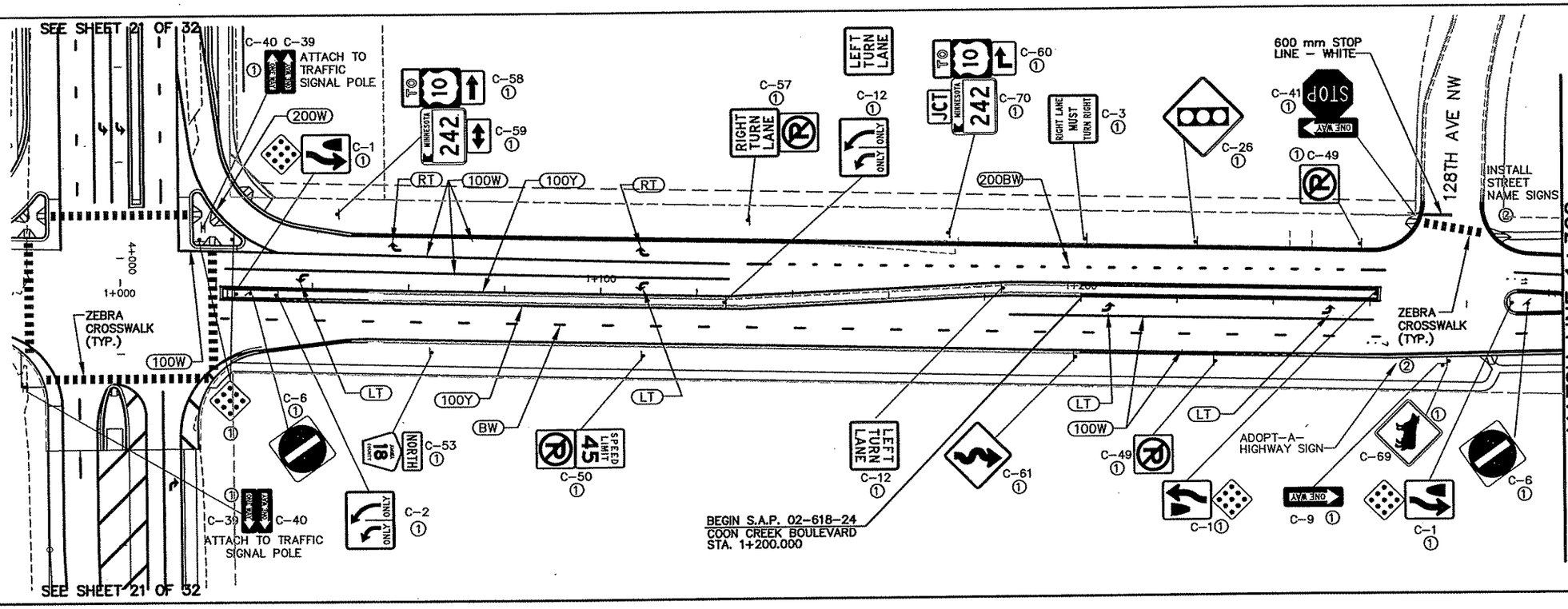
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D, RAMP D MERGE AREA
SIGNING & STRIPING
STATION 8+620.000 TO STATION 8+988.145

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 313 / 539

PLOT DATE: Dec 24, 99 10:25am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH. 2esg08.dwg



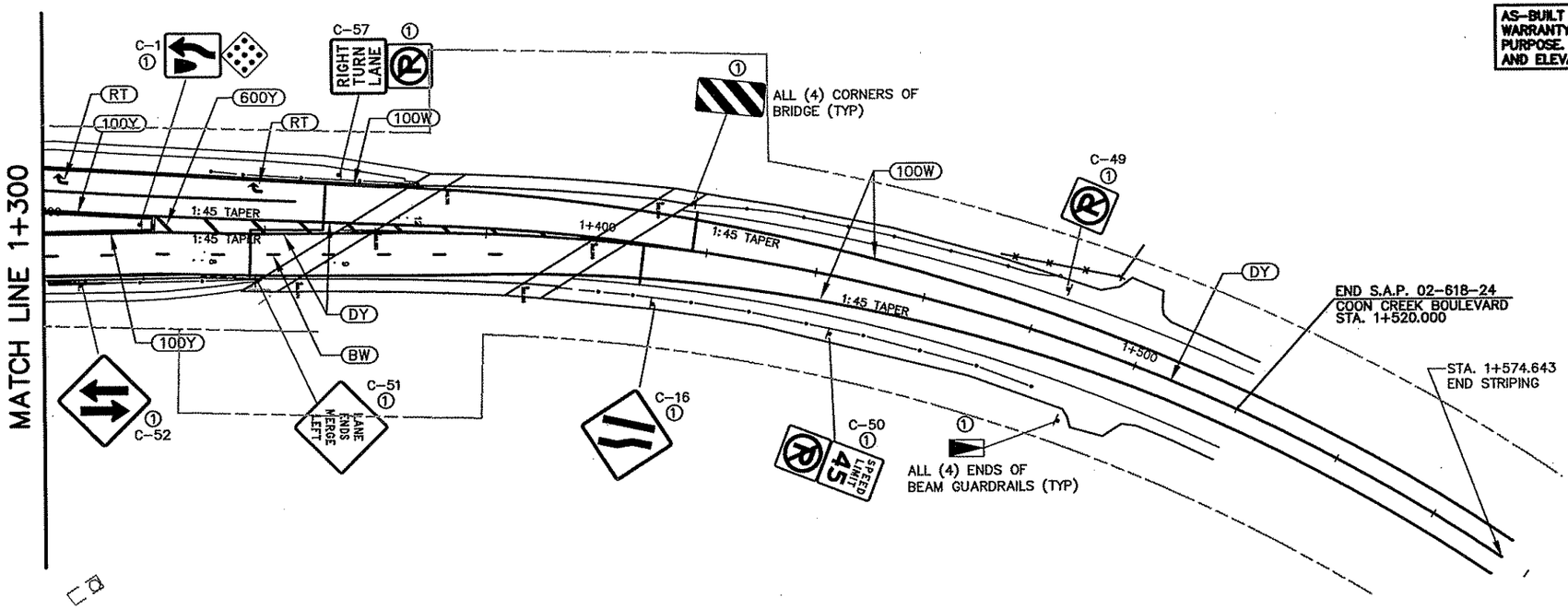
PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND – 6 m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T–RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP | DESIGN BY: SAW
CHKED. BY: PBD/KPK | DWG. NAME: 242ESG09
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL.)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

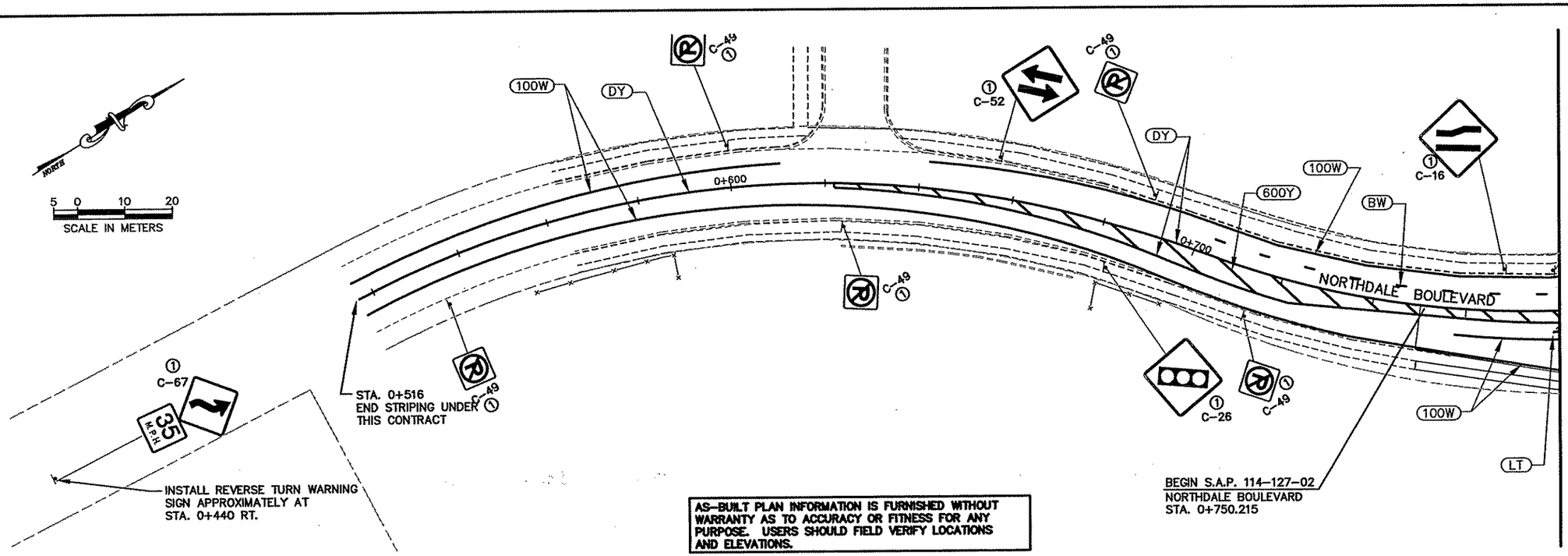
MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
SIGNING AND STRIPING
STATION 1+000.000 TO STATION 1+574.643

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 314 / 539

PLOT DATE: Dec 24, 1999 10:27am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh...\42Esg09.dwg



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PERMANENT SIGNING LEGEND

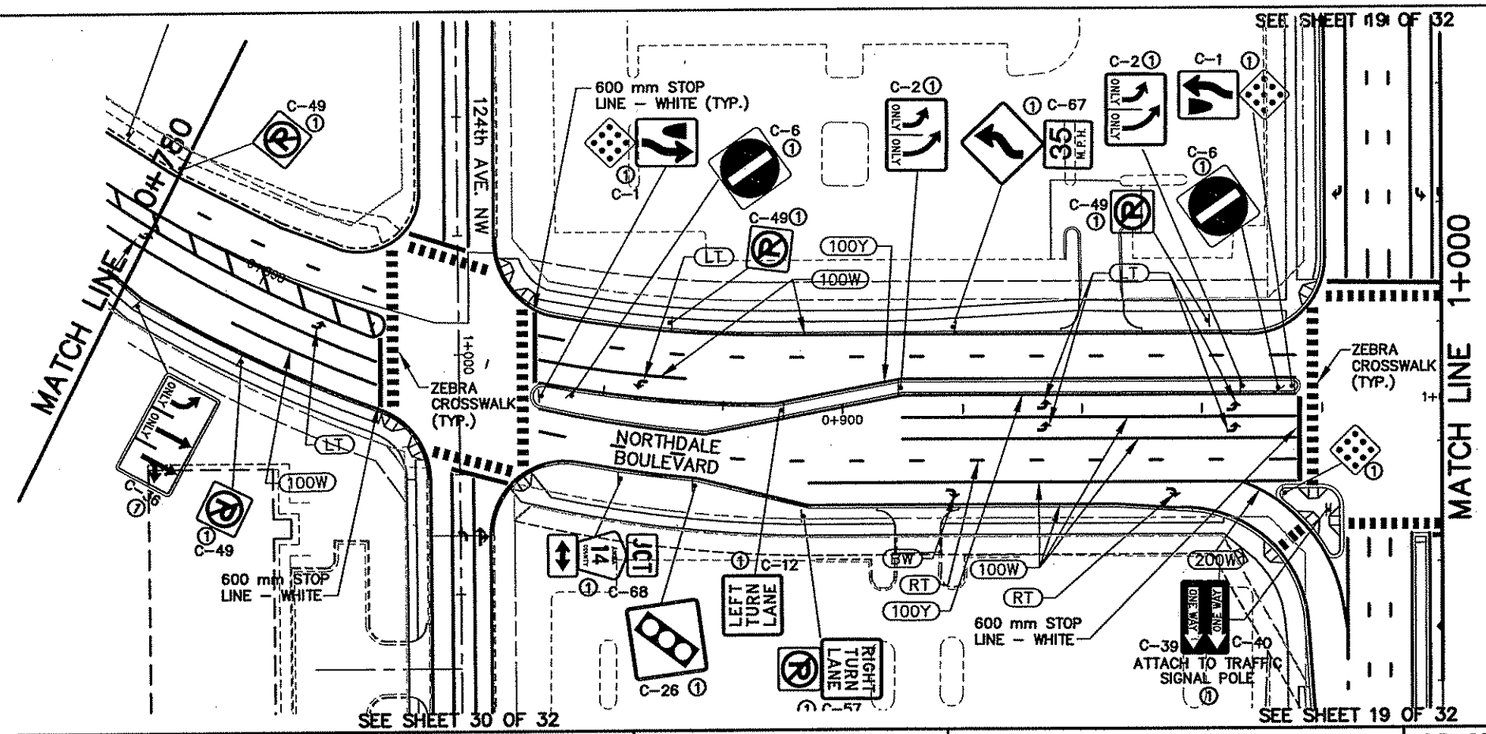
① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND–6m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T–RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND

SEE SHEET 19 OF 32



SEE SHEET 30 OF 32

SEE SHEET 19 OF 32

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	tKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP
DESIGN BY: SAW
CHKED. BY: KPK
DWG. NAME: 242WSG03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
SIGNING & STRIPING
STATION 0+516.000 TO STATION 1+000.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 315 / 539

PLOT DATE: Apr 0,,,2004 3:39pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...\GRING\242wsg03.dwg

PERMANENT SIGNING LEGEND

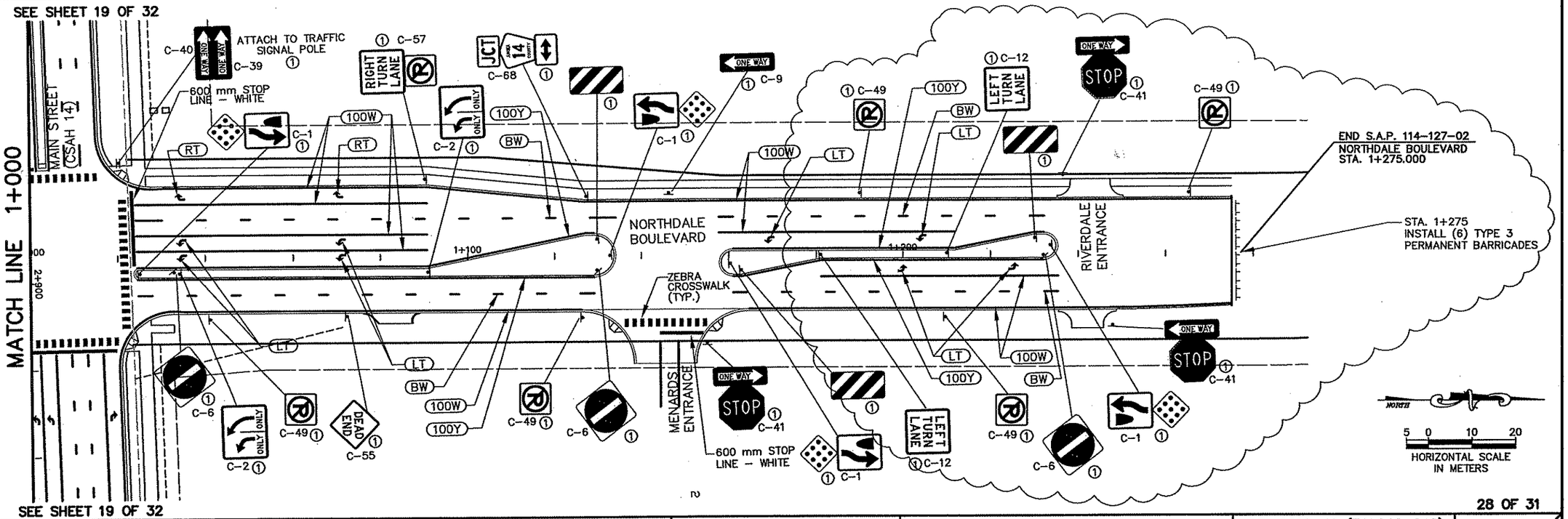
① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND–6m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T–RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND

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28 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	PMJ	9/28/00	MOD. REQ. #89: REVISED NO BLVD SIGNS
3	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP | DESIGN BY: SAW
CHKED. BY: KPK | DWG. NAME: 242WSG04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION NORTHDALE BOULEVARD N.W.

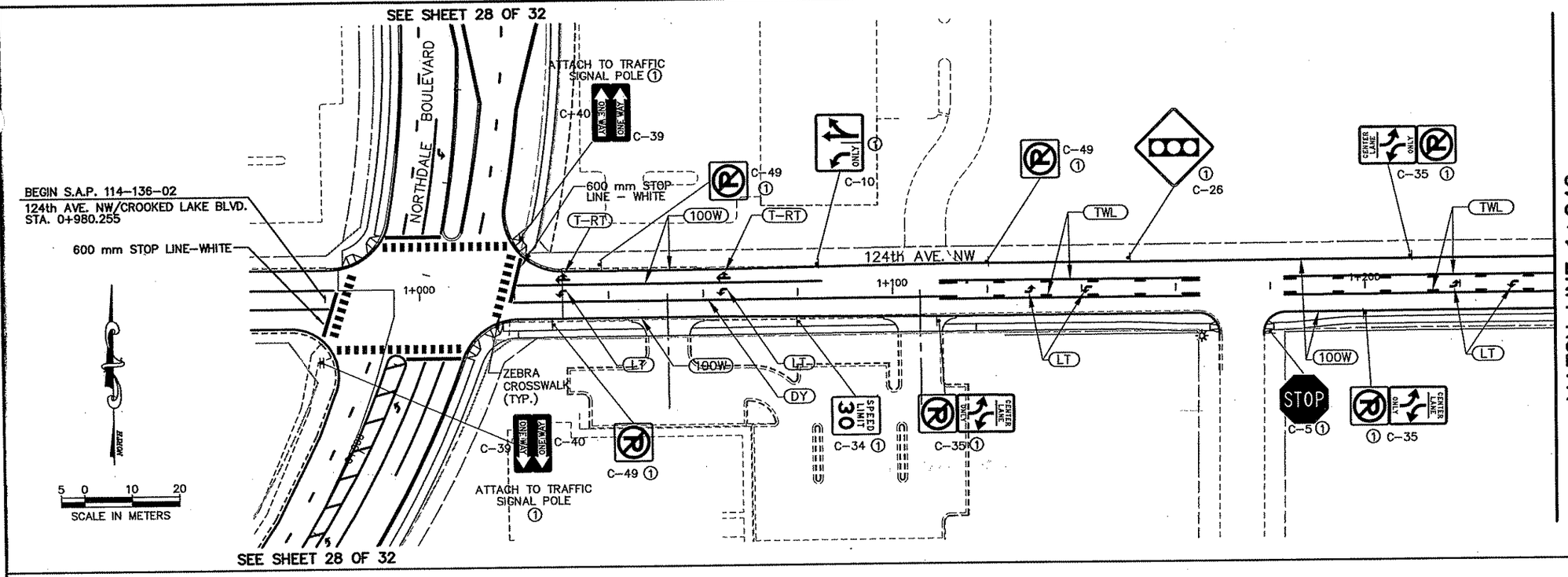
SIGNING & STRIPING
STATION 1+000.000 TO STATION 1+288.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 316 / 539

PLOT DATE: Apr 04 3:40pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S IGRING\242wsg04.dwg



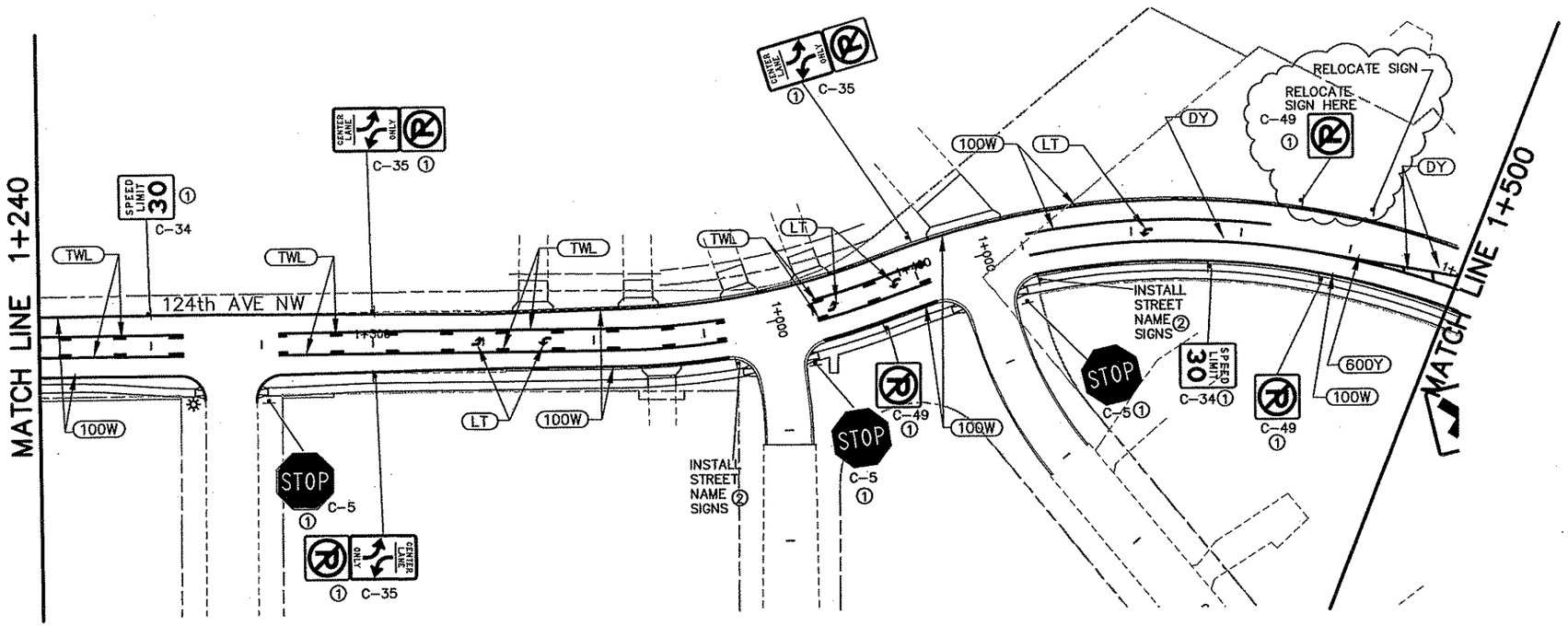
PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND–6m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T–RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND



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29 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REV. SAP No., CHANGED 124th AVE. BEGIN STA.
			DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	JJL	6/19/01	MOD. REQ. #47: MOVED NO PARKING SIGN
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP
DESIGN BY: SAW
CHKED. BY: KPK
DWG. NAME: 242WSG05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16

Kevin P Bulb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
124th AVENUE N.W.
SIGNING & STRIPING
STATION 1+000.000 TO STATION 1+500.000

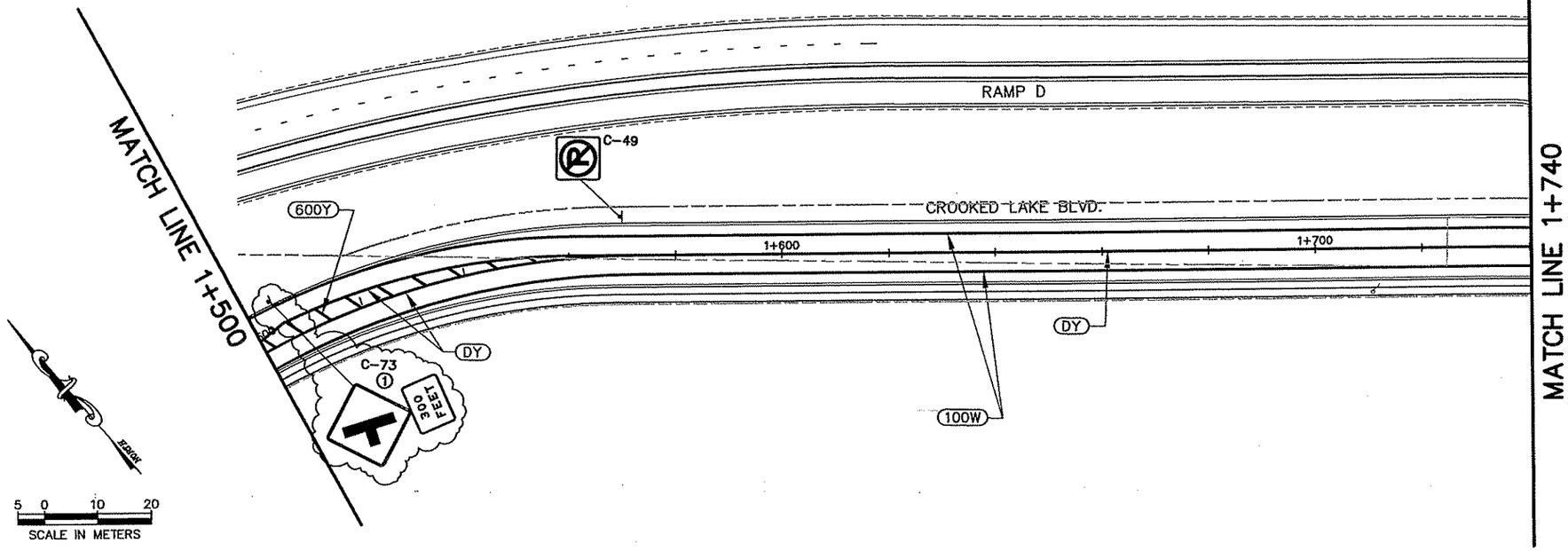
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 317 / 539

PLOT DATE: Apr 004 3:40pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_ NGRING\242wsg05.dwg

· DRAWINGS
-2E-PLN
-2-ESUM
_STRIPE
\PBOX
!D-SGN
!2MHETO
!2-A! !W
!2F



PERMANENT SIGNING LEGEND

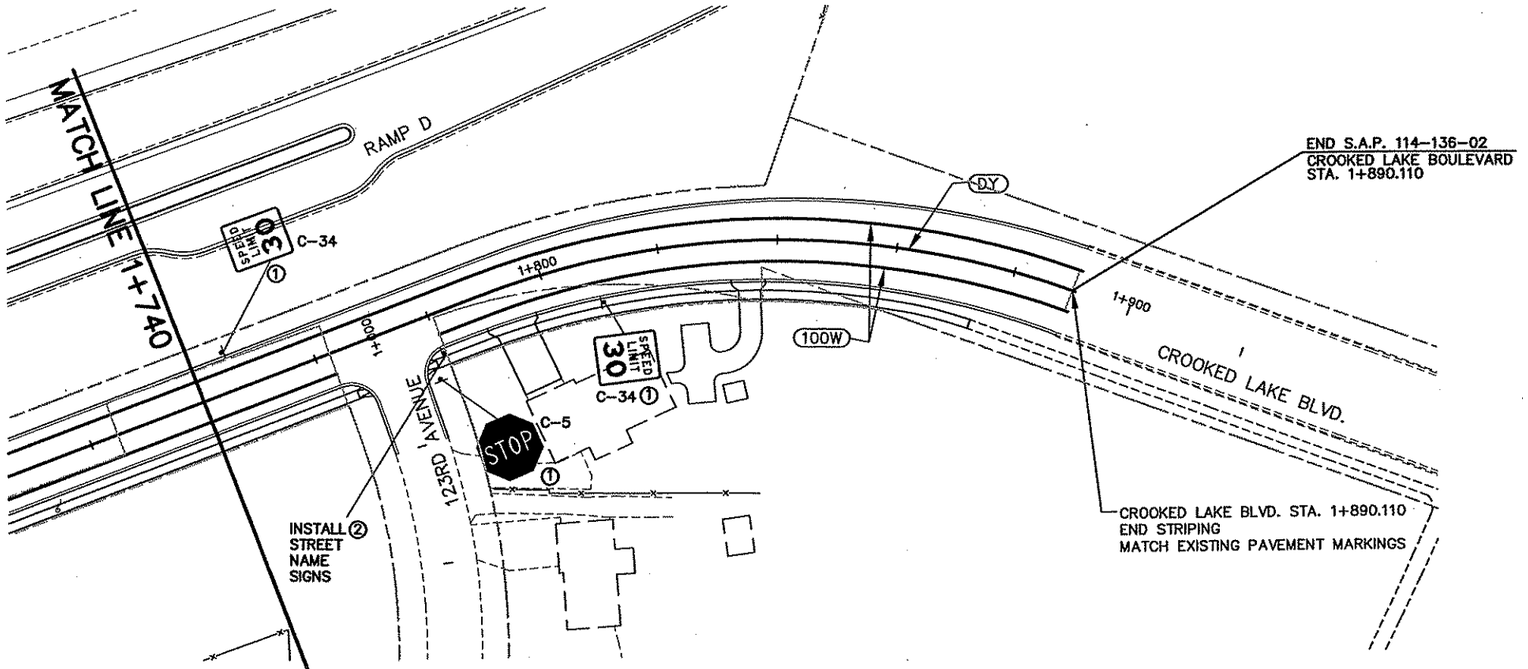
① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND–6m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T–RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5 &6
2	JJL	6/19/01	MOD. REQ. #47: ADDED WARNING SIGNS
3	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP | DESIGN BY: SAW
CHKED. BY: KPK | DWG. NAME: 242WSG06
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
124th AVENUE N.W./CROOKED LAKE BLVD.
SIGNING & STRIPING
STATION 1+500.000 TO STATION 1+890.110

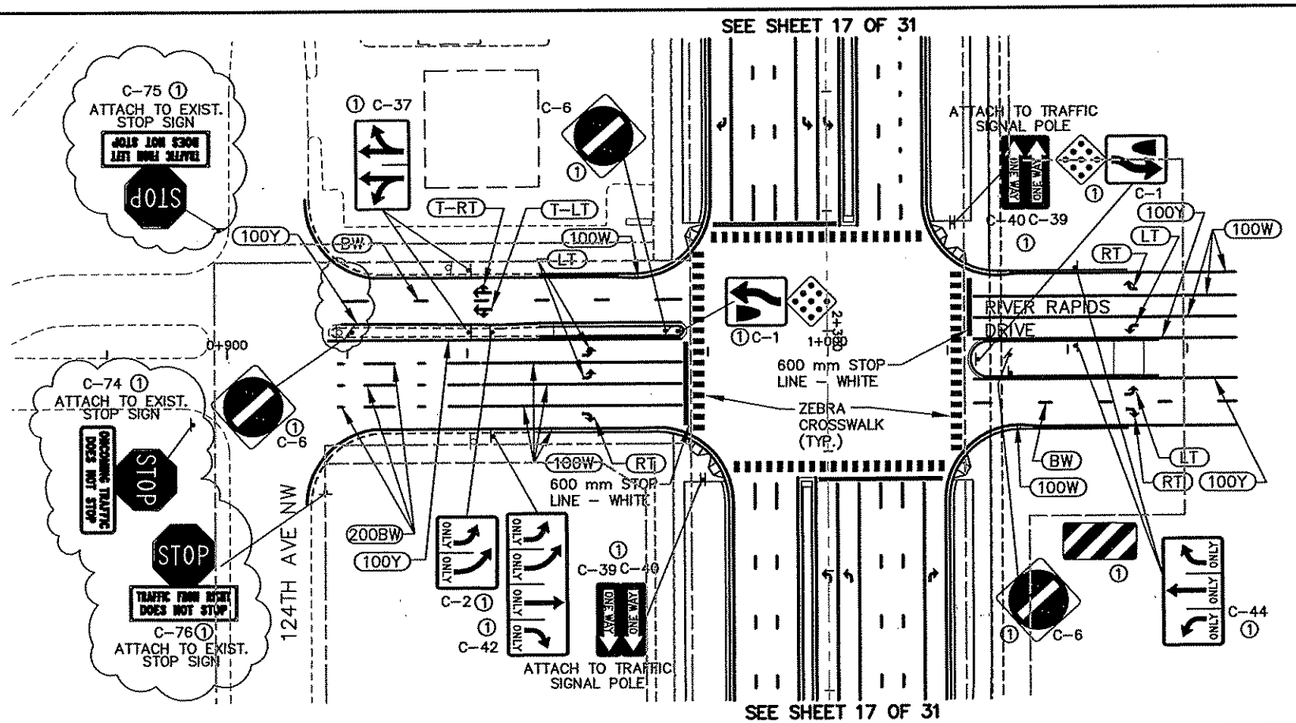
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 318 / 539

PLOT DATE: Apr 0-, 2004 3:41pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...\NGRING\242wsg06.dwg

-2-ESUM
_STRIPE
PBOX
D-SGN
2MHETO
2-ALIW
2P



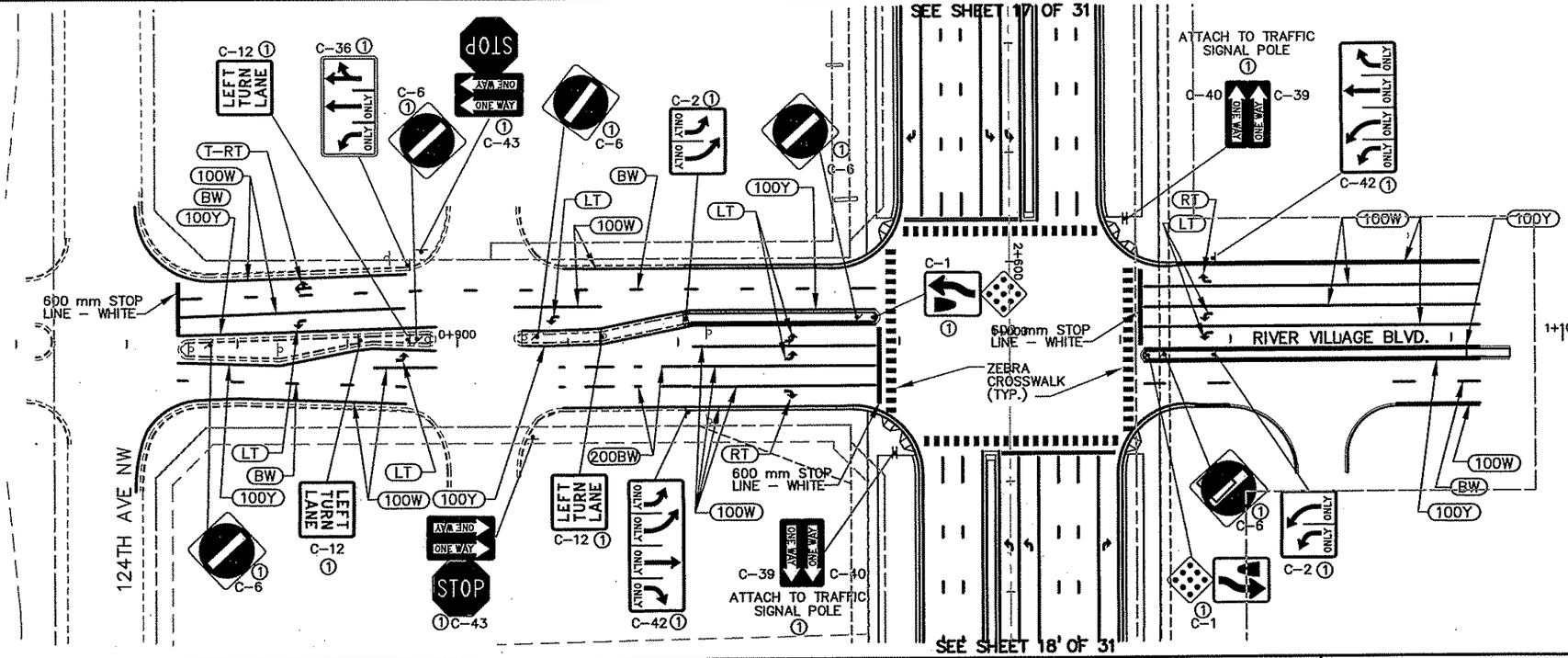
PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

100W	100 mm SOLID LINE–WHITE
BW	100 mm BROKEN LINE–WHITE 10 m CYCLE: 2 m LINE, 8 m SPACE
200BW	200 mm BROKEN LINE–WHITE 5 m CYCLE: 1 m LINE, 4 m SPACE
200W	200 mm SOLID LINE–WHITE (CHANNELIZING)
100Y	100 mm SOLID LINE–YELLOW
DY	100 mm DOUBLE SOLID YELLOW
600Y	600 mm SOLID LINE–YELLOW (PAINTED ISLAND–6m SPACING @ 45°)
RT	PAVEMENT MESSAGE, RT.
T-RT	PAVEMENT MESSAGE, THRU/RT
LT	PAVEMENT MESSAGE, LT.
HOV	PAVEMENT MESSAGE, HOV DIAMOND



NOTE: CONTRACTOR TO SALVAGE ALL CONFLICTING SIGNS

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5 & 6
2	IKR	08/26/01	MOD.REQ. #101: ADDED TYPE C SIGNS, REMOVE STOP BAR
3	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: SLP
DESIGN BY: SAW
CHKED. BY: KPK
DWG. NAME: 242WSG07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

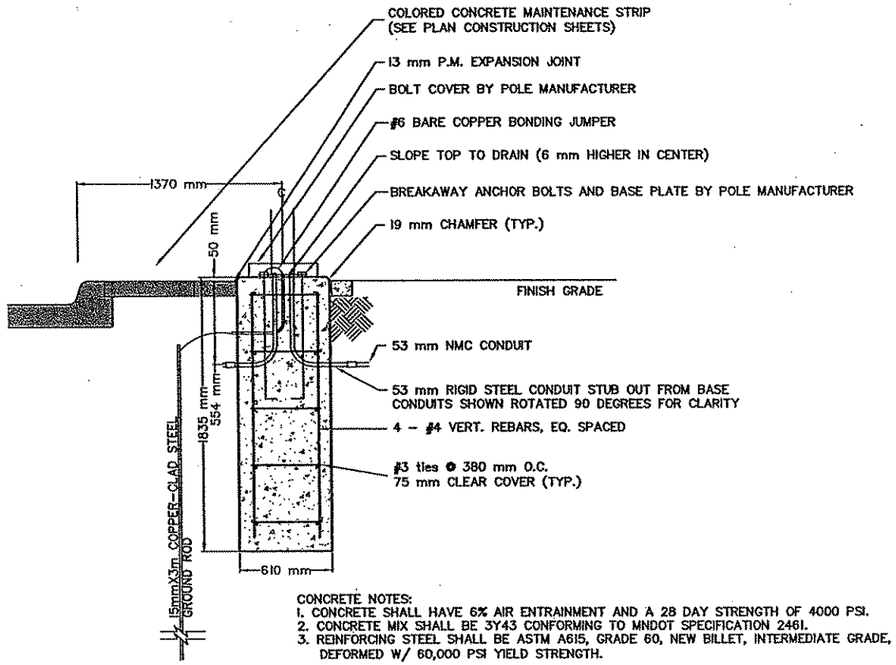
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVER RAPIDS DRIVE & RIVERDALE VILLAGE BOULEVARD
SIGNING & STRIPING
STATION 0+920 TO 1+060 & STATION 0+840 TO 1+100
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

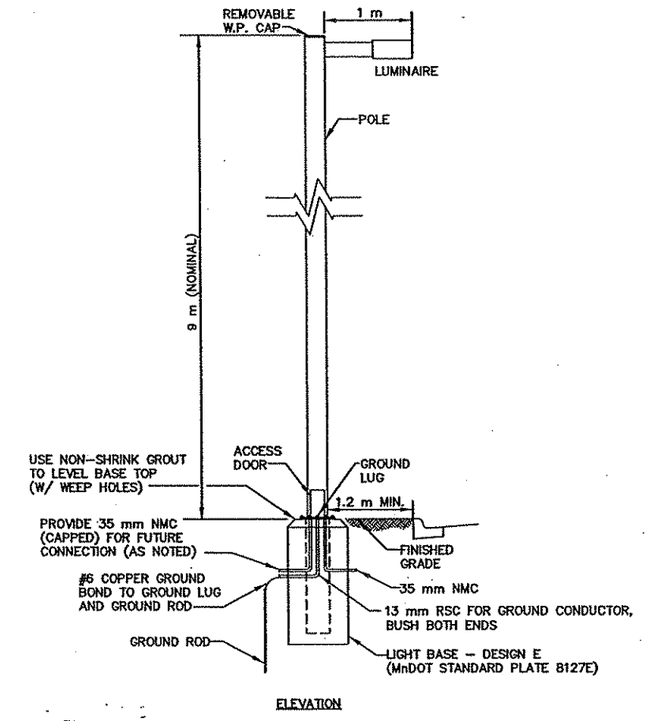
SHEET NO. 319 / 539

PLOT DATE: Apr 0_, 2004 3:42pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...cNGRING\242wsg07.dwg



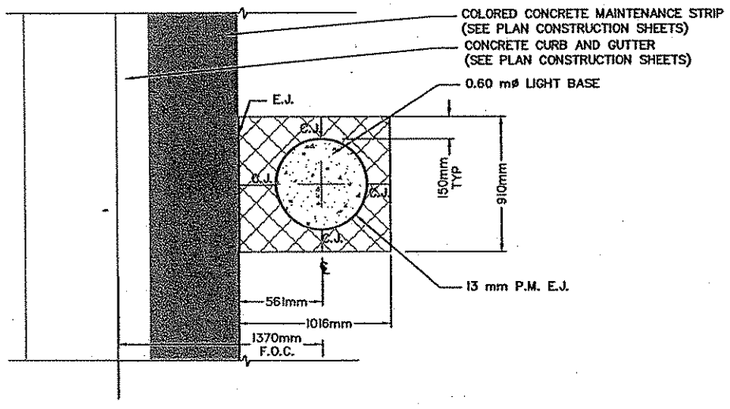
CONCRETE NOTES:
1. CONCRETE SHALL HAVE 6% AIR ENTRAINMENT AND A 28 DAY STRENGTH OF 4000 PSI.
2. CONCRETE MIX SHALL BE 3Y43 CONFORMING TO MNDOT SPECIFICATION 2461.
3. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, NEW BILLET, INTERMEDIATE GRADE, DEFORMED W/ 60,000 PSI YIELD STRENGTH.

TYPICAL SECTION @ LIGHT FOUNDATION FOR LIGHTING UNIT, TYPE SPECIAL



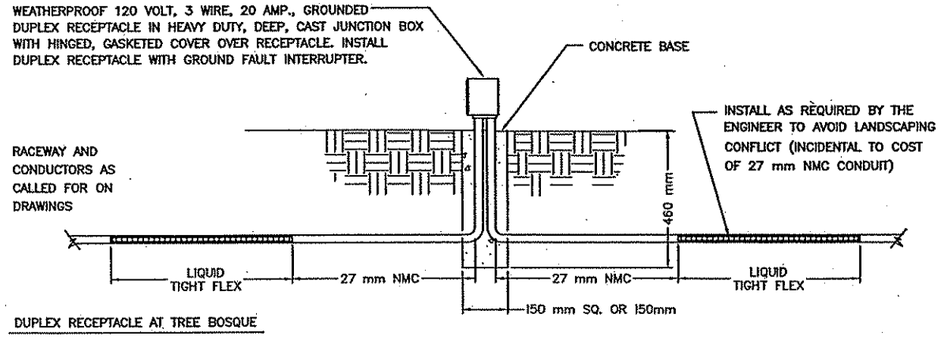
ELEVATION

LIGHT POLE AND BASE DETAIL FOR LIGHTING UNIT TYPE IX-9, 3-12, 4-12



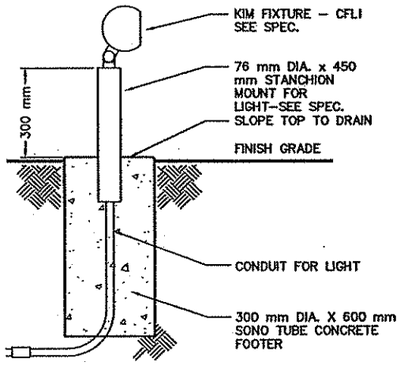
TYPICAL PLAN @ LIGHT FOUNDATION

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



DUPLEX RECEPTACLE AT TREE BOSQUE

TYPICAL GFI OUTLET DETAILS



NOTE: LOCATE FIXTURE & BASE 1.5 m FROM CENTERLINE OF FEATURE WALL ART WORK

LIGHTING UNIT TYPE SPECIAL 2 DETAIL

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	01-19-00	ADDED "ROTATED 90 DEGREES" TO TYP. SECT. LIGHT BASE
2	JAS	04-22-04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: MJF | DESIGN BY: TPH
CHKED. BY: RJG | DWG. NAME: LIT_DET1.DWG
DATE: DECMBER 29, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Brem

DATE: 11-05-99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
LIGHTING SYSTEM DETAILS

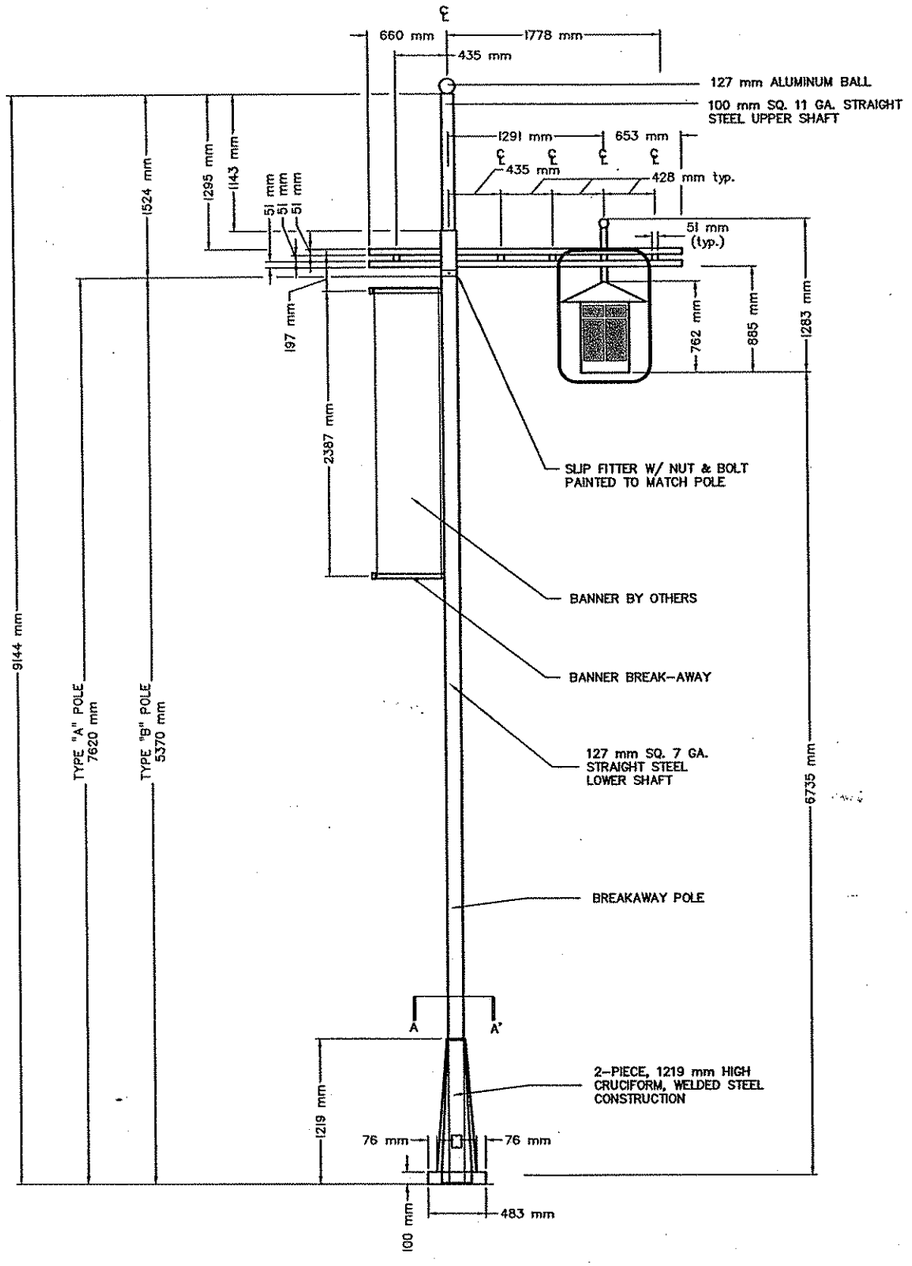
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 320 / 539

PLOT DATE: Apr 22, 2004 - 2:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main Via-Built\LIT_det1.dwg

EF DRAWINGS
SAPBOX



LIGHTING UNIT TYPE SPECIAL ELEVATION

SCALE IN METRIC

LUMINAIRE SPECIFICATIONS:

CANOPY: 810 mm SQ. X 171 mm HIGH ALL ALUMINUM CONSTRUCTION

BALLAST COVER: ALL ALUMINUM CONSTRUCTION, PAINTED HIGH REFLECTANCE WHITE

DIFFUSER PANELS: (4) AMBER MICA GLASS PANELS, CLEAR TEMPERED GLASS OVERLAY.

REFLECTOR: DIE-FORMED ALLUMINUM, WITH SPECULAR FINISH FOR A TYPE (3) E.I.S. DISTRIBUTION, REFLECTOR MODIFIED TO ILLUMINATE COLORED GLASS PANELS.

LENS: CLEAR FLAT TEMPERED GLASS

DOOR: ALL ALUMINUM CONSTRUCTION

ELECTRICAL SPECIFICATIONS:

BALLAST: 250 WATT/ 240 VOLT CORE AND COIL MOUNTED IN CANOPY.

LAMPHOLDER: MOGUL BASE PORCELAIN

LAMP: 250 WATT METAL HALIDE, BY OTHERS

POLE SPECIFICATIONS:

UPPER SHAFT: SQ. STRAIGHT STEEL, 100mm SQ X 11 GA. WALL

LOWER SHAFT: SQUARE STRAIGHT STEEL, 127mm SQ. X 7 GA WALL

ARMS: 51 mm X 127 mm RECTANGULAR STEEL TUBE

HANDHOLE: WITH COVER

BASE COVER: TWO-PIECE, 1220mm HIGH CRUCIFORM WELDED STEEL CONSTRUCTION

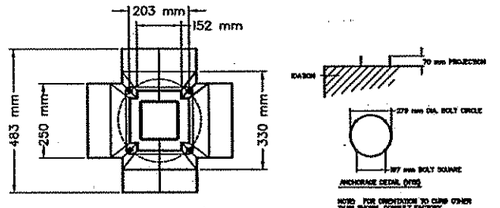
BASE: 240 mm SQ. X 19 mm THICK STEEL PLATE, CONTINUOUSLY WELDED TO POLE

ANCHORAGE: (4)-19 mm X 812 mm X 100 mm GALVANIZED STEEL ANCHOR BOLTS ON A 280 mm BOLT CIRCLE.

FINISH SPECIFICATIONS:

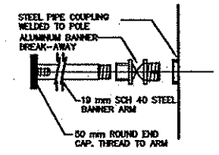
FINISH SHALL BE SHOP-APPLIED, ELECTROSTATICALLY-APPLIED, BAKED ACRYLIC FINISH, RAL 8017, DARK BROWN.

NOTE:
1. FOR FOOTING DETAILS, SEE SHEET 320.



SECTION A-A'

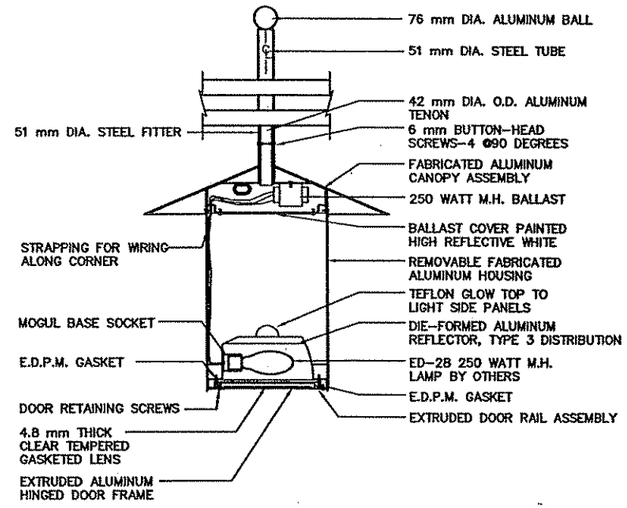
SCALE IN METRIC: 1:10



BANNER BREAK-AWAY

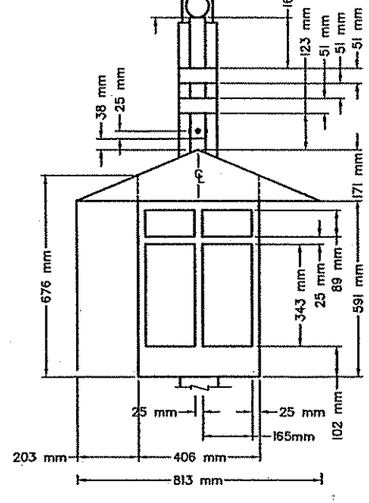
NOT TO SCALE

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LIGHTING UNIT TYPE SPECIAL FIXTURE

SCALE IN METRIC



LIGHTING UNIT TYPE SPECIAL FIXTURE

SCALE IN METRIC

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: HH, MJF
DESIGN BY: TPH
CHKED. BY: RJG
DWG. NAME: LIT_DET2.DWG
DATE: DECEMBER 29, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Robert J. Grum

DATE: 11-05-99 MINN. REG. NO. 22793

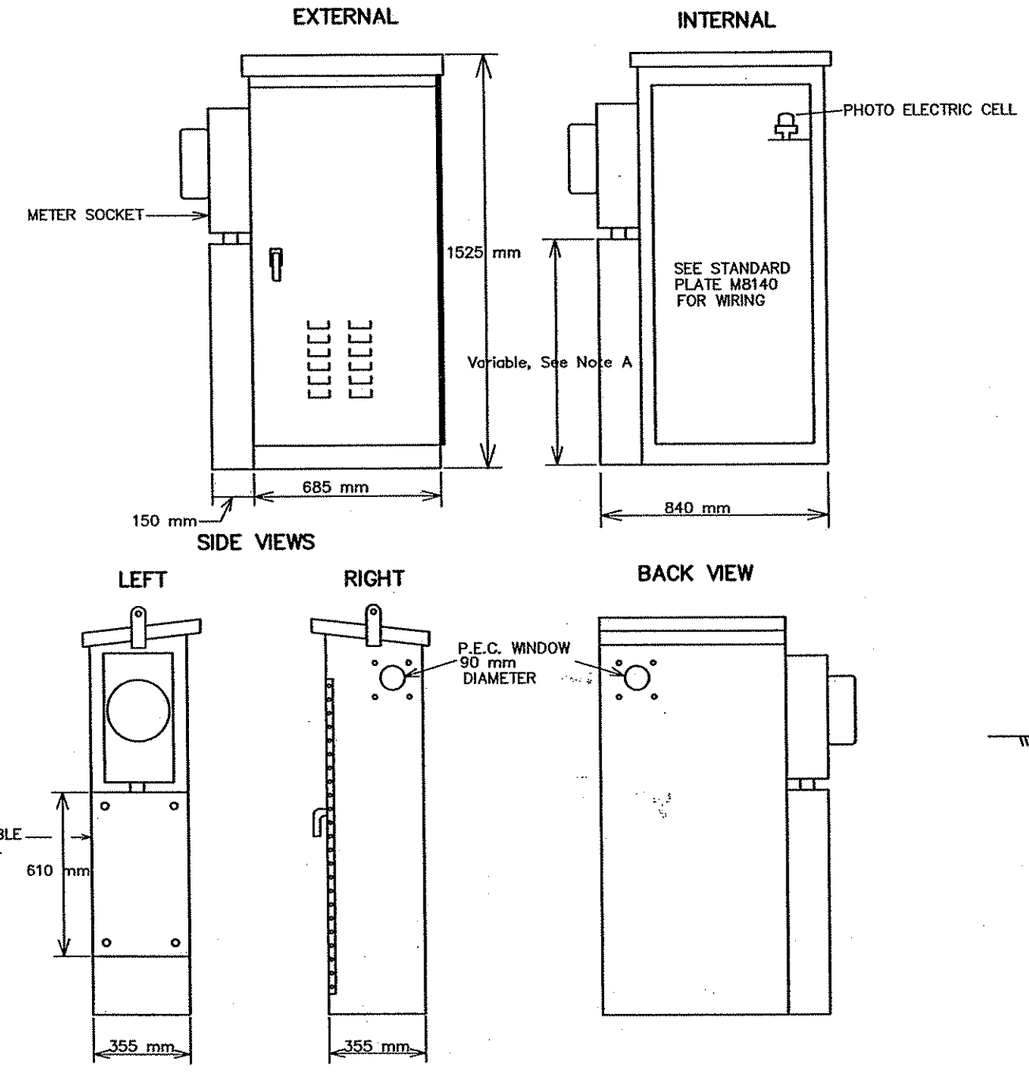
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
LIGHTING SYSTEM DETAILS

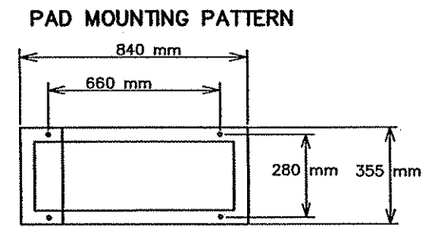
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

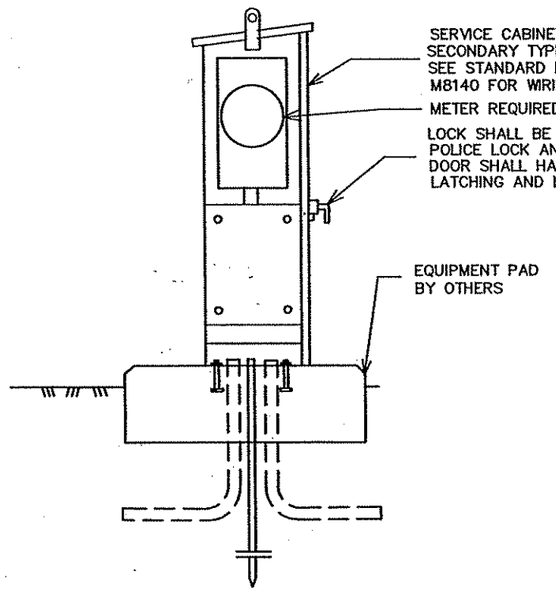
SHEET NO. 321 / 539

PLOT DATE: Apr 22, 2004 2:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\wdln\As-Built\Lit_det2.dwg





Note A: Height of compartment is approximately 840 mm.
May vary depending upon size of meter socket.



LIGHTING SERVICE CABINET

SERVICE CABINET SECONDARY TYPE L1 & L2

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: PANEL
DATE: DECEMBER 29, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Robert J. Green
DATE: 11-05-99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
TRAFFIC SIGNAL SYSTEM
SERVICE CABINET DETAILS
SECONDARY TYPE L1 & L2
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 12Z - 02

SHEET NO. 322 / 539

PLOT DATE: Apr 22, 2004 2:36pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALs\Main\As-Built\Lit_det3.dwg

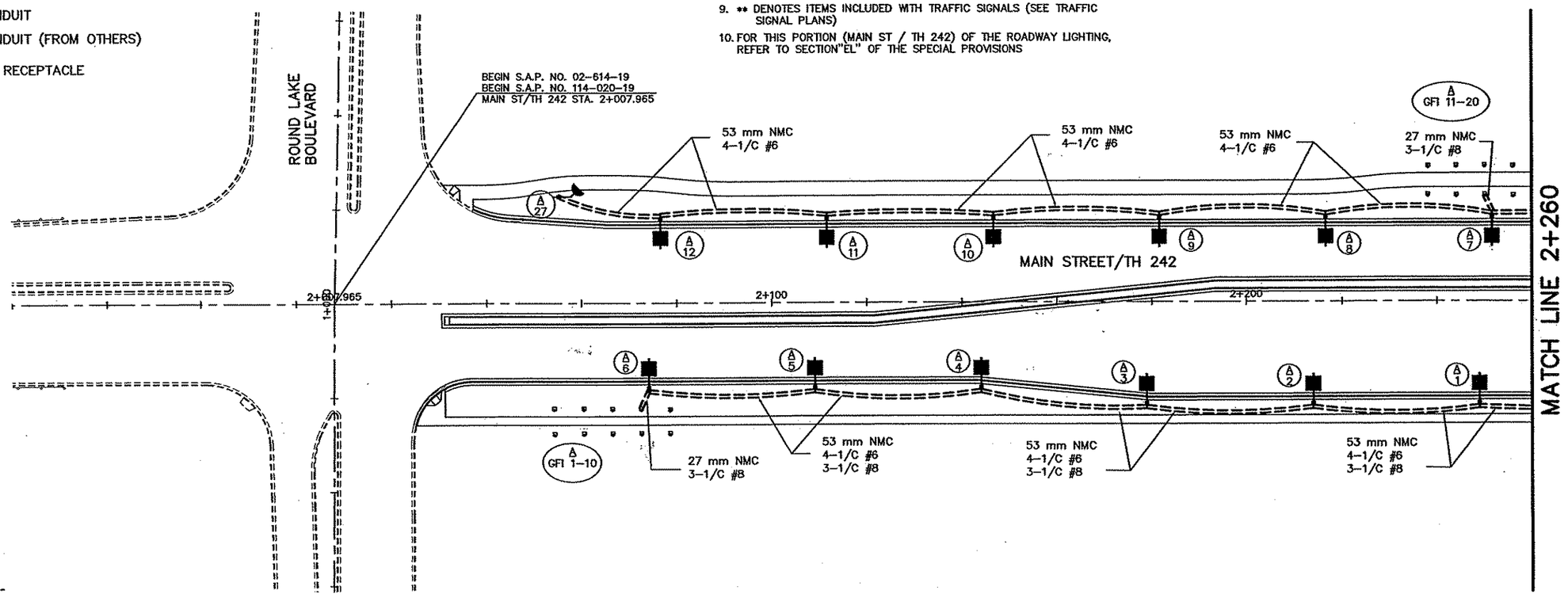
N-LGT
MHET2
-ALIW
PLNW
BOX

LEGEND

- LIGHTING UNIT TYPE SPECIAL AND FOUNDATION
- LIGHTING UNIT TYPE SPECIAL 1 ON BRIDGE MOUNT
- 250 WATT METAL HALIDE LUMINAIRE, SHOE BOX TYPE ON 9m POLE
- LIGHTING UNIT TYPE SPECIAL 2 (FEATURE WALL UPLIGHT)
- F & I FEED POINT (120/240V)
- HANDHOLE
- CONDUIT
- CONDUIT (FROM OTHERS)
- GFI RECEPTACLE

GENERAL PLAN NOTES:

1. ALL LIGHTING ASSEMBLIES SHALL BE LOCATED MINIMUM 1.2 m BEHIND CURB UNLESS NOTED OTHERWISE.
2. ALL CONDUIT SHALL BE BURIED AT A MINIMUM DEPTH OF 600 mm UNLESS STATED OTHERWISE IN THE PLANS.
3. LIGHTING ASSEMBLIES SHALL CONTAIN ALL MODIFICATIONS NECESSARY TO COMPLY WITH N.S.P. MAINTENANCE PROGRAM AND SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION BY THE AUTHORIZED N.S.P. REPRESENTATIVE.
5. ALL WIRING WITHIN THE LIGHTING STANDARD SHALL BE TYPE-THHN, 600 VOLT, EXCEPT GROUND.
6. ALL LIGHTING ASSEMBLIES SHALL BE PROVIDED WITH GROUND ROD AND CONDUCTORS AS REQUIRED.
7. GFI RECEPTACLES SHALL BE CONNECTED BY 27 mm NMC AND 3-1/C #8 CABLE IN A CLOCKWISE DIRECTION (SEE DETAIL SHEET X)
8. * DENOTES ITEM INCLUDED WITH BRIDGE DESIGN (SEE BRIDGE PLANS)
9. ** DENOTES ITEMS INCLUDED WITH TRAFFIC SIGNALS (SEE TRAFFIC SIGNAL PLANS)
10. FOR THIS PORTION (MAIN ST / TH 242) OF THE ROADWAY LIGHTING, REFER TO SECTION"EL" OF THE SPECIAL PROVISIONS



5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	6/16/00	MOD.REQ.#22 : ADDED 1-1/C#8 TO LIGHTING SYSTEM
2	JAS	4/22/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: TWS | DESIGN BY: RJG
CHKED. BY: TWS | DWG. NAME: LITE_1W
DATE: JUNE 12, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.15.
Robert J. Green
DATE: 06-12-00 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / TH 242
LIGHTING SYSTEM LAYOUT
STATION 2+007.965 TO STATION 2+260.000
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 323 / 539

PLOT DATE: Apr 22, 200... 4:36pm DISK FILE NAME: (15.08) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Lite_1w.dwg

EF DRAWINGS

r_STA
42W-LGT
42-ALIW
42PLNW
APBOX

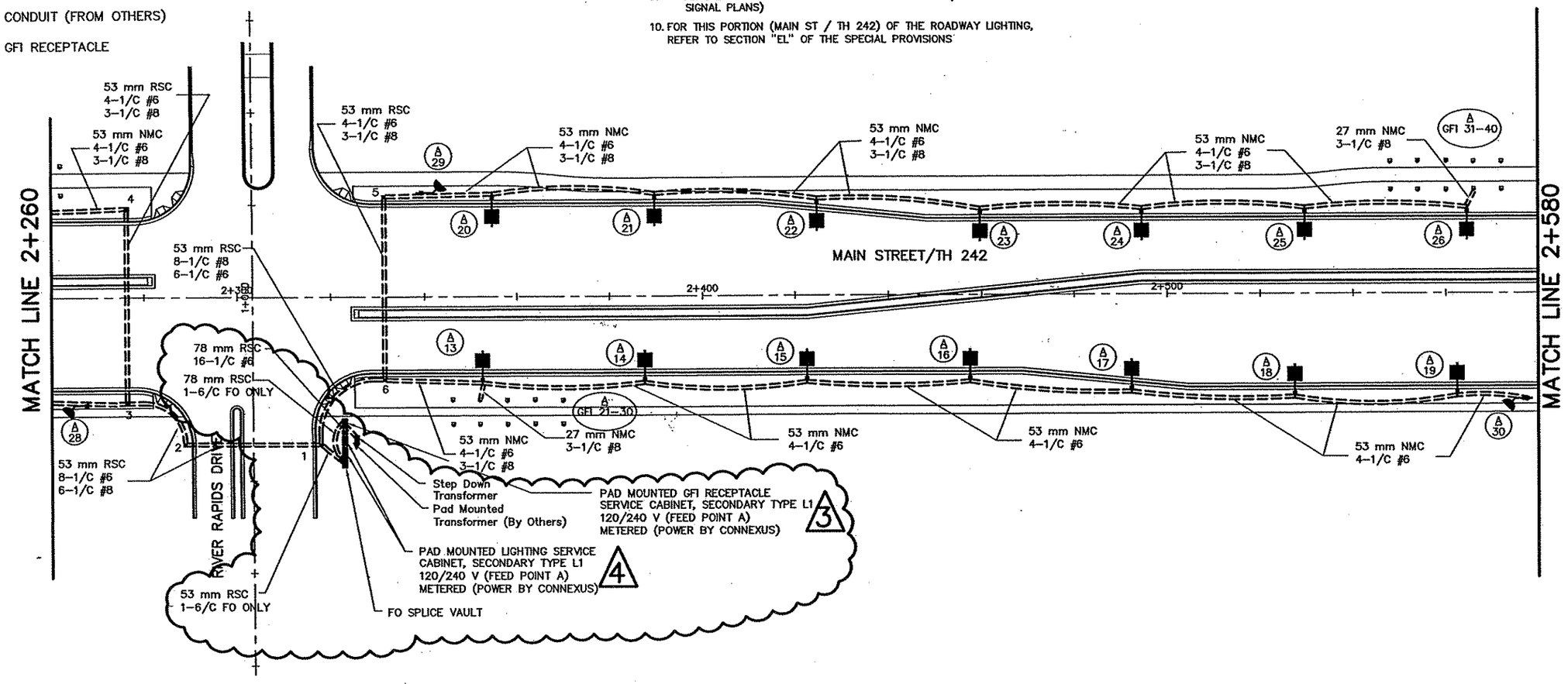
LEGEND

- LIGHTING UNIT TYPE SPECIAL AND FOUNDATION
- LIGHTING UNIT TYPE SPECIAL 1 ON BRIDGE MOUNT
- 250 WATT METAL HALIDE LUMINAIRE, SHOE BOX TYPE ON 9m POLE
- LIGHTING UNIT TYPE SPECIAL 2 (FEATURE WALL UPLIGHT)
- F & I FEED POINT (120/240V)
- HANDHOLE
- CONDUIT
- CONDUIT (FROM OTHERS)
- GFI RECEPTACLE

GENERAL PLAN NOTES:

1. ALL LIGHTING ASSEMBLIES SHALL BE LOCATED MINIMUM 1.2 m BEHIND CURB UNLESS NOTED OTHERWISE.
2. ALL CONDUIT SHALL BE BURIED AT A MINIMUM DEPTH OF 600 mm UNLESS STATED OTHERWISE IN THE PLANS.
3. LIGHTING ASSEMBLIES SHALL CONTAIN ALL MODIFICATIONS NECESSARY TO COMPLY WITH N.S.P. MAINTENANCE PROGRAM AND SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION BY THE AUTHORIZED N.S.P. REPRESENTATIVE.
5. ALL WIRING WITHIN THE LIGHTING STANDARD SHALL BE TYPE-THHN, 600 VOLT, EXCEPT GROUND.
6. ALL LIGHTING ASSEMBLIES SHALL BE PROVIDED WITH GROUND ROD AND CONDUCTORS AS REQUIRED.
7. GFI RECEPTACLES SHALL BE CONNECTED BY 27 mm NMC AND 3-1/C #8 CABLE IN A CLOCKWISE DIRECTION (SEE DETAIL SHEET 320)
8. * DENOTES ITEM INCLUDED WITH BRIDGE DESIGN (SEE BRIDGE PLANS)
9. ** DENOTES ITEMS INCLUDED WITH TRAFFIC SIGNALS (SEE TRAFFIC SIGNAL PLANS)
10. FOR THIS PORTION (MAIN ST / TH 242) OF THE ROADWAY LIGHTING, REFER TO SECTION "EL" OF THE SPECIAL PROVISIONS

5 0 10 20
HORIZONTAL SCALE IN METERS



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	1-3-00	CHANGED CABINET TYPE TO L2
2	TWS	1-3-00	CHANGED CABLE SIZE FROM CABINET TO TRANSFORMER
3	TWS	6/16/00	MOD.REQ.#22: ADDED CABINET FOR GFI RECEPT. (BOTH (CABINETS ARE TYPE L1, 120/240V); ADDED 1-1/C #6 TO LIGHTING SYSTEM; ADDED STEP DOWN TRANSFORMER (TO GO FROM 240/480V TO 120/240V)
4	JAS	4-22-04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: TWS | DESIGN BY: RJG
CHKED. BY: TWS | DWG. NAME: LITE_2W
DATE: JUNE 12, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Robert J. Green
DATE: 06-12-00 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
LIGHTING SYSTEM LAYOUT
STATION 2+260.000 TO STATION 2+580.000

CITY PROJECT 98-20

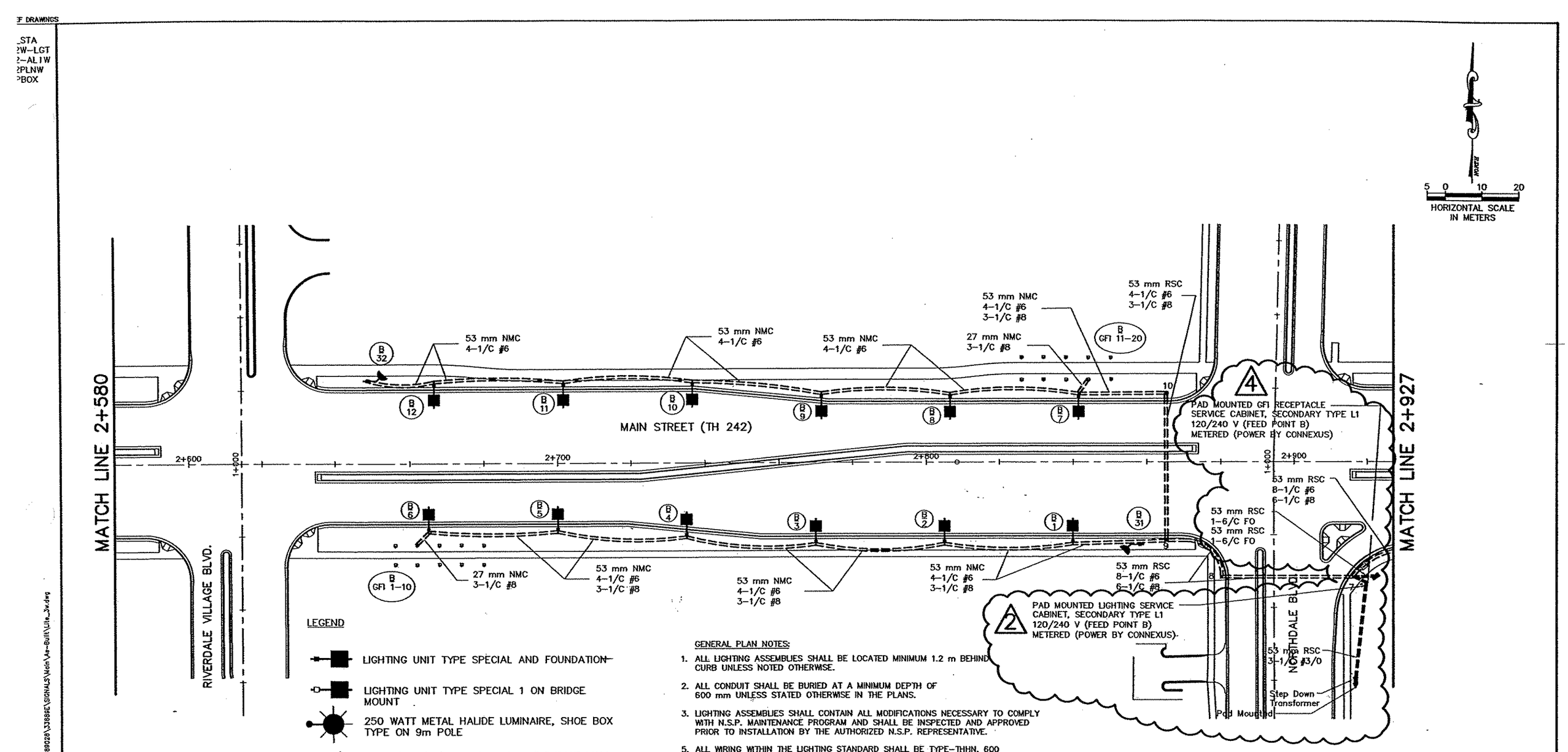
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 324 / 539

PLOT DATE: Apr 22, 2004 - 3:12pm DISK FILE NAME: (15.06) R:\33889\33889028\33688E\SIGNALS\Main\As-Built\Lite_2w.dwg

F DRAWINGS

_STA
2W-LGT
2-AL1W
2PLNW
2BOX



LEGEND

- LIGHTING UNIT TYPE SPECIAL AND FOUNDATION
- LIGHTING UNIT TYPE SPECIAL 1 ON BRIDGE MOUNT
- 250 WATT METAL HALIDE LUMINAIRE, SHOE BOX TYPE ON 9m POLE
- LIGHTING UNIT TYPE SPECIAL 2 (FEATURE WALL UPLIGHT)
- F & I FEED POINT (120/240V)
- HANDHOLE
- CONDUIT
- CONDUIT (FROM OTHERS)
- GFI RECEPTACLE

GENERAL PLAN NOTES:

1. ALL LIGHTING ASSEMBLIES SHALL BE LOCATED MINIMUM 1.2 m BEHIND CURB UNLESS NOTED OTHERWISE.
2. ALL CONDUIT SHALL BE BURIED AT A MINIMUM DEPTH OF 600 mm UNLESS STATED OTHERWISE IN THE PLANS.
3. LIGHTING ASSEMBLIES SHALL CONTAIN ALL MODIFICATIONS NECESSARY TO COMPLY WITH N.S.P. MAINTENANCE PROGRAM AND SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION BY THE AUTHORIZED N.S.P. REPRESENTATIVE.
5. ALL WIRING WITHIN THE LIGHTING STANDARD SHALL BE TYPE-THHN, 600 VOLT, EXCEPT GROUND.
6. ALL LIGHTING ASSEMBLIES SHALL BE PROVIDED WITH GROUND ROD AND CONDUCTORS AS REQUIRED.
7. GFI RECEPTACLES SHALL BE CONNECTED BY 27 mm NMC AND 3-1/C #8 CABLE IN A CLOCKWISE DIRECTION (SEE DETAIL SHEET 320)
8. * DENOTES ITEM INCLUDED WITH BRIDGE DESIGN (SEE BRIDGE PLANS)
9. ** DENOTES ITEMS INCLUDED WITH TRAFFIC SIGNALS (SEE TRAFFIC SIGNAL PLANS)
10. FOR THIS PORTION (MAIN ST / TH 242) OF THE ROADWAY LIGHTING, REFER TO SECTION "EL" OF THE SPECIAL PROVISIONS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	1-3-00	CHANGED CABLE SIZE FROM CABINET TO TRANSFORMER
2	TWS	6/16/00	MOD.REQ.#22: ADDED CABINET FOR GFI RECEPT. (BOTH CABINETS ARE TYPE L1, 120/240V); ADDED 1-1/C #6 TO LIGHTING SYSTEM; ADDED STEP DOWN TRANSFORMER TRANSFORMER (TO GO FROM 240/480V TO 120/240V)
3	JAS	4/22/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: TWS | DESIGN BY: RJG
CHKED. BY: TWS | DWG. NAME: LITE_3W
DATE: JUNE 12, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Green

DATE: 06-12-00 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
LIGHTING SYSTEM LAYOUT
STATION 2+580.000 TO STATION 2+920.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 325 / 539

PLOT DATE: Apr 22, 20... 3pm DISK FILE NAME: (15.00) R:\33889\33889028\33889E\SIGNALS\Mainline\As-Built\Lite_3w.dwg

REF DRAWINGS

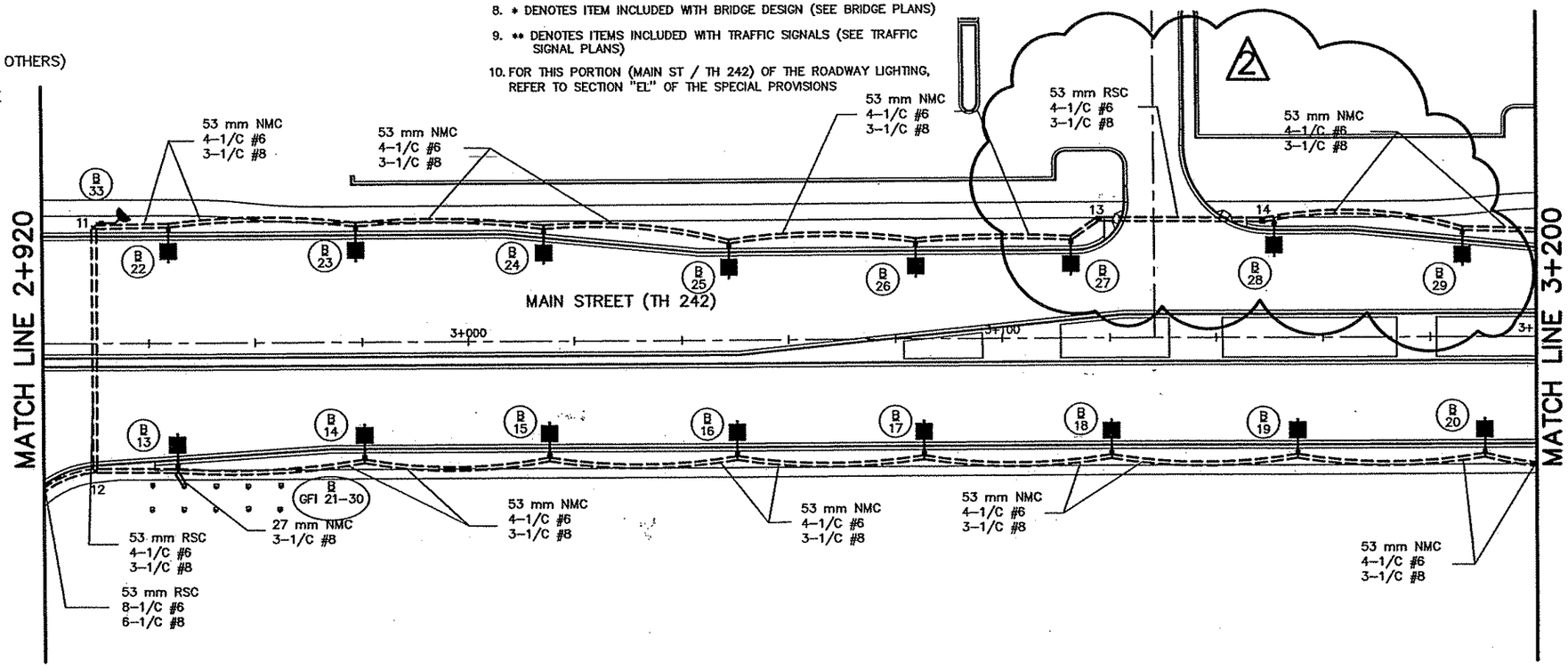
r_STA
12W-LGT
12-ALIW
12PLNW
APBOX

LEGEND

- LIGHTING UNIT TYPE SPECIAL AND FOUNDATION
- LIGHTING UNIT TYPE SPECIAL 1 ON BRIDGE MOUNT
- 250 WATT METAL HALIDE LUMINAIRE, SHOE BOX TYPE ON 9m POLE
- LIGHTING UNIT TYPE SPECIAL 2 (FEATURE WALL UPLIGHT)
- F & I FEED POINT (120/240V)
- HANDHOLE
- CONDUIT
- CONDUIT (FROM OTHERS)
- GFI RECEPTACLE

GENERAL PLAN NOTES:

1. ALL LIGHTING ASSEMBLIES SHALL BE LOCATED MINIMUM 1.2 m BEHIND CURB UNLESS NOTED OTHERWISE.
2. ALL CONDUIT SHALL BE BURIED AT A MINIMUM DEPTH OF 600 mm UNLESS STATED OTHERWISE IN THE PLANS.
3. LIGHTING ASSEMBLIES SHALL CONTAIN ALL MODIFICATIONS NECESSARY TO COMPLY WITH N.S.P. MAINTENANCE PROGRAM AND SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION BY THE AUTHORIZED N.S.P. REPRESENTATIVE.
5. ALL WIRING WITHIN THE LIGHTING STANDARD SHALL BE TYPE--THHN, 600 VOLT, EXCEPT GROUND.
6. ALL LIGHTING ASSEMBLIES SHALL BE PROVIDED WITH GROUND ROD AND CONDUCTORS AS REQUIRED.
7. GFI RECEPTACLES SHALL BE CONNECTED BY 27 mm NMC AND 3-1/C #8 CABLE IN A CLOCKWISE DIRECTION (SEE DETAIL SHEET 320)
8. * DENOTES ITEM INCLUDED WITH BRIDGE DESIGN (SEE BRIDGE PLANS)
9. ** DENOTES ITEMS INCLUDED WITH TRAFFIC SIGNALS (SEE TRAFFIC SIGNAL PLANS)
10. FOR THIS PORTION (MAIN ST / TH 242) OF THE ROADWAY LIGHTING, REFER TO SECTION "EL" OF THE SPECIAL PROVISIONS



5 0 10 20
HORIZONTAL SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	6/16/00	MOD.REQ.#22: ADDED 1-1/C #6 TO LIGHTING SYSTEM
2	TWS	6/19/00	MOD.REQ.#22: MOVE HH 13&14 AND LIGHTS B-27, B-28, AND B-29 FOR NEW DRIVEWAY LOCATION
3	JAS	4/22/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: TWS | DESIGN BY: RJG
CHKED. BY: TWS | DWG. NAME: LITE_4W
DATE: JUNE 12, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Brown

DATE: 6-12-00 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
LIGHTING SYSTEM LAYOUT
STATION 2+920.000 TO STATION 3+200.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 326 / 539

PLOT DATE: Apr 22, 2004 12:14pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main Vas-Built\Lite_4w.dwg

F DRAWINGS

42PLNW
42W-LGT
42E-PLN
42E-ALI
APBOX

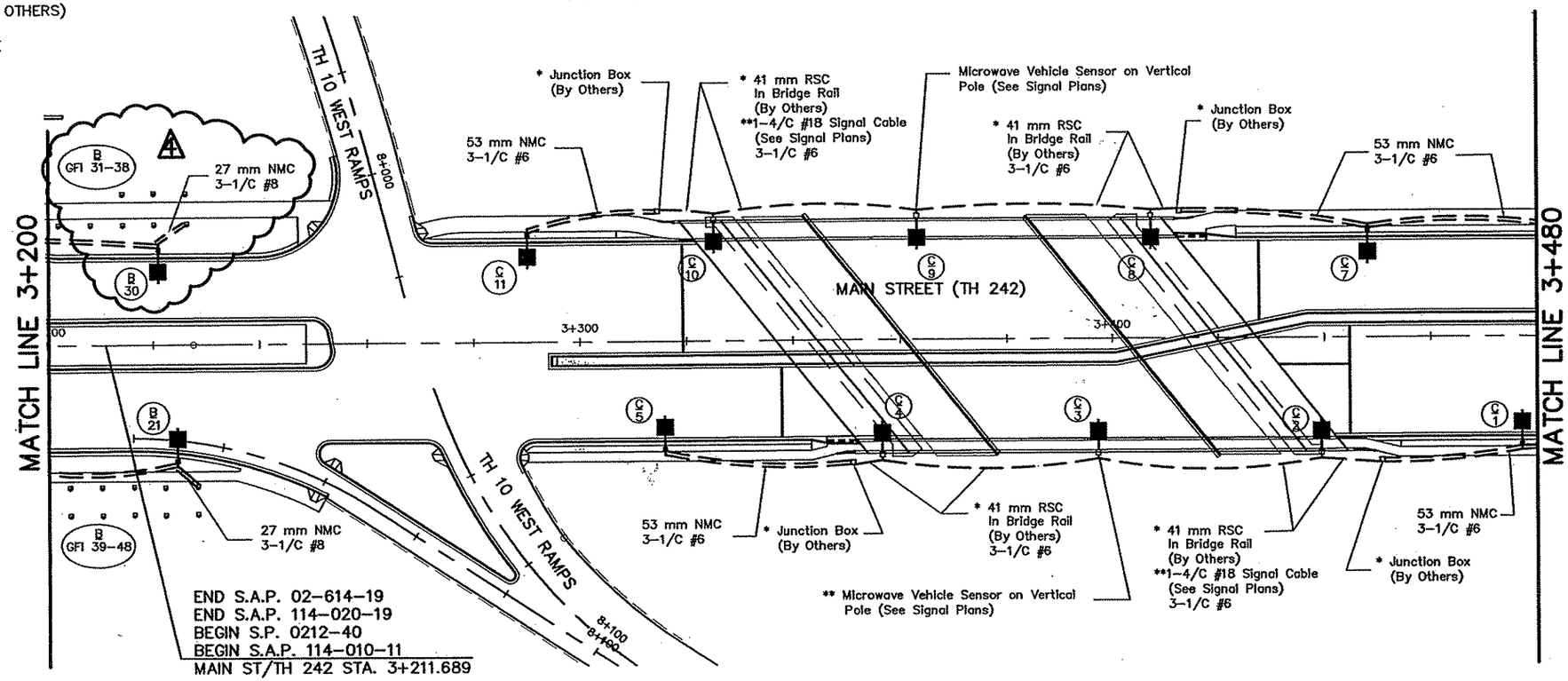
LEGEND

- LIGHTING UNIT TYPE SPECIAL AND FOUNDATION
- LIGHTING UNIT TYPE SPECIAL 1 ON BRIDGE MOUNT
- 250 WATT METAL HALIDE LUMINAIRE, SHOE BOX TYPE ON 9m POLE
- LIGHTING UNIT TYPE SPECIAL 2 (FEATURE WALL UPLIGHT)
- F & I FEED POINT (120/240V)
- HANDHOLE
- CONDUIT
- CONDUIT (FROM OTHERS)
- GFI RECEPTACLE

GENERAL PLAN NOTES:

1. ALL LIGHTING ASSEMBLIES SHALL BE LOCATED MINIMUM 1.2 m BEHIND CURB UNLESS NOTED OTHERWISE.
2. ALL CONDUIT SHALL BE BURIED AT A MINIMUM DEPTH OF 600 mm UNLESS STATED OTHERWISE IN THE PLANS.
3. LIGHTING ASSEMBLIES SHALL CONTAIN ALL MODIFICATIONS NECESSARY TO COMPLY WITH N.S.P. MAINTENANCE PROGRAM AND SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION BY THE AUTHORIZED N.S.P. REPRESENTATIVE.
5. ALL WIRING WITHIN THE LIGHTING STANDARD SHALL BE TYPE-THHN, 600 VOLT, EXCEPT GROUND.
6. ALL LIGHTING ASSEMBLIES SHALL BE PROVIDED WITH GROUND ROD AND CONDUCTORS AS REQUIRED.
7. GFI RECEPTACLES SHALL BE CONNECTED BY 27 mm NMC AND 3-1/C #8 CABLE IN A CLOCKWISE DIRECTION (SEE DETAIL SHEET 320)
8. * DENOTES ITEM INCLUDED WITH BRIDGE DESIGN (SEE BRIDGE PLANS)
9. ** DENOTES ITEMS INCLUDED WITH TRAFFIC SIGNALS (SEE TRAFFIC SIGNAL PLANS)
10. FOR THIS PORTION (MAIN ST / TH 242) OF THE ROADWAY LIGHTING, REFER TO SECTION "EL" OF THE SPECIAL PROVISIONS

5 0 10 20
HORIZONTAL SCALE IN METERS



END S.A.P. 02-614-19
END S.A.P. 114-020-19
BEGIN S.P. 0212-40
BEGIN S.A.P. 114-010-11
MAIN ST/TH 242 STA. 3+211.689

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	tws	1-3-00	Added microwave detector from Signal Plans to north side
2	tws	1-3-00	Removed Bridge Design Note
3	tws	1-3-00	Added cable note for microwave detector to north side
4	TWS	8/19/00	MOD. REQ. #22: ADD LIGHT B-30 TO ACCOMMODATE REVISED MENARDS ENTRANCE
5	JAS	4/22/04	AS-BUILT DRAWING

DESIGN FILE: 33B89028
DRAWN BY: TWS | DESIGN BY: RJG
CHKED. BY: TWS | DWG. NAME: LITE_1E
DATE: DECEMBER 29, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Brem
DATE: 11-05-99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
LIGHTING SYSTEM LAYOUT
STATION 3+200.000 TO STATION 3+480.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 327 / 539

PLOT DATE: Apr 22, 2004 2:41pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Lite_1e.dwg

F DRAWINGS

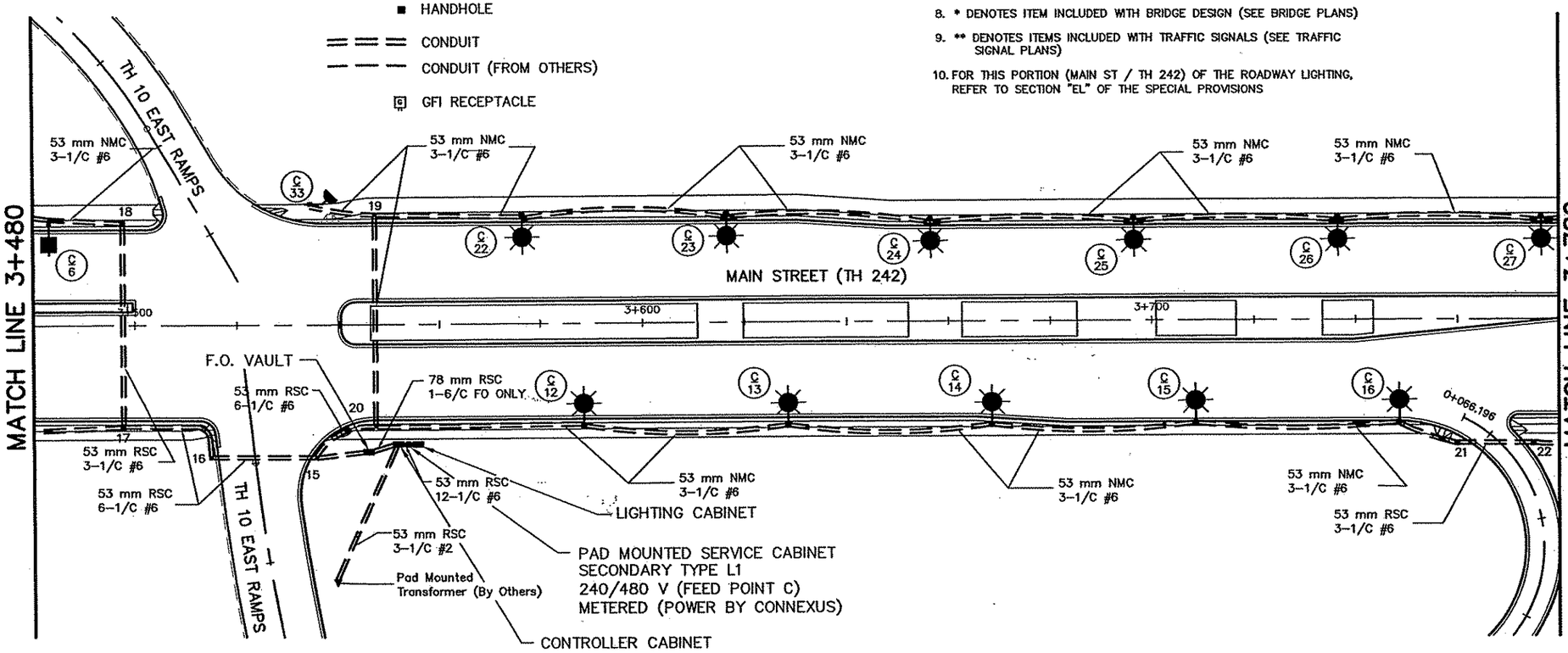
2E-ALI
2W-LGT
2E-PLN
PBOX

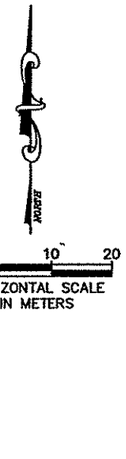
LEGEND

- LIGHTING UNIT TYPE SPECIAL AND FOUNDATION
- LIGHTING UNIT TYPE SPECIAL 1 ON BRIDGE MOUNT
- 250 WATT METAL HALIDE LUMINAIRE, SHOE BOX TYPE ON 9m POLE
- LIGHTING UNIT TYPE SPECIAL 2 (FEATURE WALL UPLIGHT)
- F & I FEED POINT (120/240V)
- HANDHOLE
- CONDUIT
- CONDUIT (FROM OTHERS)
- GFI RECEPTACLE

GENERAL PLAN NOTES:

1. ALL LIGHTING ASSEMBLIES SHALL BE LOCATED MINIMUM 1.2 m BEHIND CURB UNLESS NOTED OTHERWISE.
2. ALL CONDUIT SHALL BE BURIED AT A MINIMUM DEPTH OF 600 mm UNLESS STATED OTHERWISE IN THE PLANS.
3. LIGHTING ASSEMBLIES SHALL CONTAIN ALL MODIFICATIONS NECESSARY TO COMPLY WITH N.S.P. MAINTENANCE PROGRAM AND SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION BY THE AUTHORIZED N.S.P. REPRESENTATIVE.
5. ALL WIRING WITHIN THE LIGHTING STANDARD SHALL BE TYPE-THHN, 600 VOLT, EXCEPT GROUND.
6. ALL LIGHTING ASSEMBLIES SHALL BE PROVIDED WITH GROUND ROD AND CONDUCTORS AS REQUIRED.
7. GFI RECEPTACLES SHALL BE CONNECTED BY 27 mm NMC AND 3-1/C #8 CABLE IN A CLOCKWISE DIRECTION (SEE DETAIL SHEET 320)
8. * DENOTES ITEM INCLUDED WITH BRIDGE DESIGN (SEE BRIDGE PLANS)
9. ** DENOTES ITEMS INCLUDED WITH TRAFFIC SIGNALS (SEE TRAFFIC SIGNAL PLANS)
10. FOR THIS PORTION (MAIN ST / TH 242) OF THE ROADWAY LIGHTING, REFER TO SECTION "EL" OF THE SPECIAL PROVISIONS





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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	6/16/00	MOD.REQ.#22: CHANGED CABINET FROM 120/240 TO A 240/480V SYSTEM
2	JAS	4/22/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: TWS | DESIGN BY: RJG
CHKED. BY: TWS | DWG. NAME: LITE_2E
DATE: JUNE 12, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Robert J. Gruen

DATE: 06-12-00 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/TH 242
LIGHTING SYSTEM LAYOUT
STATION 3+480.000 TO STATION 3+780.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 328 / 539

PLOT DATE: Apr 14, 2004 3:40pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNAL...\Main\As-Built\Lite_2e.dwg

·2PLN2A
\PBOX
·2W–LGT
:2E–ALI
!2E–PLN

LEGEND

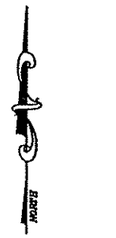
- LIGHTING UNIT TYPE SPECIAL AND FOUNDATION
- LIGHTING UNIT TYPE SPECIAL 1 ON BRIDGE MOUNT
- 250 WATT METAL HALIDE LUMINAIRE, SHOE BOX TYPE ON 9m POLE
- LIGHTING UNIT TYPE SPECIAL 2 (FEATURE WALL UPLIGHT)
- F & I FEED POINT (120/240V)
- HANDHOLE
- CONDUIT
- CONDUIT (FROM OTHERS)
- GFI RECEPTACLE
- 12.2 m WOOD POLE
  3 m LUMINAIR ARM
  250 WATT HPS LUMINAIR
- OVERHEAD CABLE

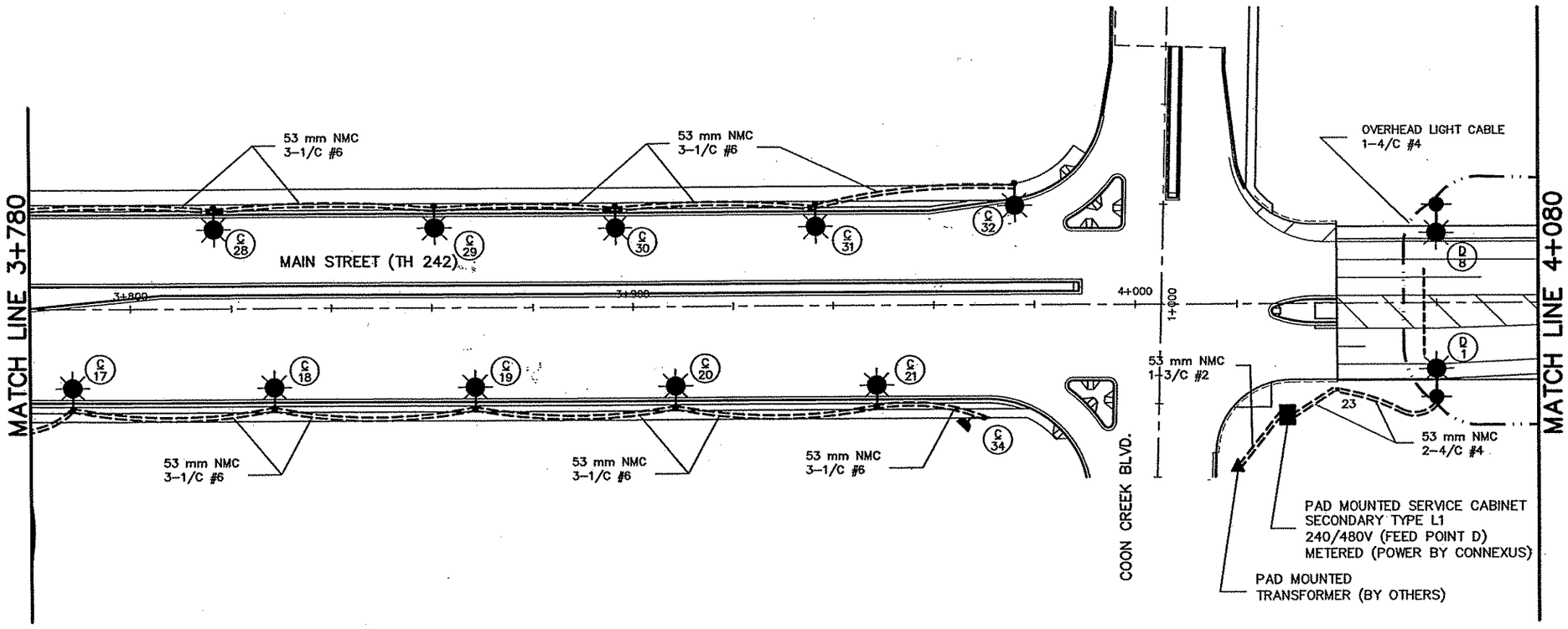
GENERAL PLAN NOTES:

1. ALL LIGHTING ASSEMBLIES SHALL BE LOCATED MINIMUM 1.2 m BEHIND CURB UNLESS NOTED OTHERWISE.
2. ALL CONDUIT SHALL BE BURIED AT A MINIMUM DEPTH OF 600 mm UNLESS STATED OTHERWISE IN THE PLANS.
3. LIGHTING ASSEMBLIES SHALL CONTAIN ALL MODIFICATIONS NECESSARY TO COMPLY WITH N.S.P. MAINTENANCE PROGRAM AND SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION BY THE AUTHORIZED N.S.P. REPRESENTATIVE.
5. ALL WIRING WITHIN THE LIGHTING STANDARD SHALL BE TYPE–THHN, 600 VOLT, EXCEPT GROUND.
6. ALL LIGHTING ASSEMBLIES SHALL BE PROVIDED WITH GROUND ROD AND CONDUCTORS AS REQUIRED.
7. GFI RECEPTACLES SHALL BE CONNECTED BY 27 mm NMC AND 3–1/C #8 CABLE IN A CLOCKWISE DIRECTION (SEE DETAIL SHEET 320)
8. * DENOTES ITEM INCLUDED WITH BRIDGE DESIGN (SEE BRIDGE PLANS)
9. ** DENOTES ITEMS INCLUDED WITH TRAFFIC SIGNALS (SEE TRAFFIC SIGNAL PLANS)
10. FOR THIS PORTION (MAIN ST / TH 242) OF THE ROADWAY LIGHTING, REFER SECTION "EL" OF THE SPECIAL PROVISIONS

(D/1) INSTALL: 12.2 m WOOD POLE
F & I: 3 m LUMINAIRE ARM
250 W HPS LUMINAIRE
53 mm RSC RISER AND WEATHERHEAD
2 – 4/c #4 OVERHEAD LIGHT CABLE

(D/8) INSTALL: 12.2 m WOOD POLE
F & I: 3 m LUMINAIRE ARM
250 W HPS LUMINAIRE
2 – 4/c #4 OVERHEAD LIGHT CABLE





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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	6/16/00	MOD.REQ.#22: CHANGED CABINET FROM 120/240V TO A 240/480V SYSTEM
2	JAS	4/22/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: TWS | DESIGN BY: RJG
CHKED. BY: TWS | DWG. NAME: LITE_3E
DATE: JUNE 12, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL.)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Robert J. Green

DATE 06–12–00 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
LIGHTING SYSTEM LAYOUT /
TEMPORARY LIGHTING SYSTEM LAYOUT
STATION 3+780.000 TO STATION 4+080.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 329 / 539

PLOT DATE: Apr 22, 2004 1:49pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As–Built\Lite_3e.dwg

F DRAWINGS

42E-ALI
42W-LGT
42E-PLN
42PLN2A
42MHETO
APBOX

PLOT DATE: Apr 22, 2004 1:50pm DISK FILE NAME: (15.06) R:\33889\3388928\3388E\SIGNALS\Main\As-Built\Lite_4e1.dwg

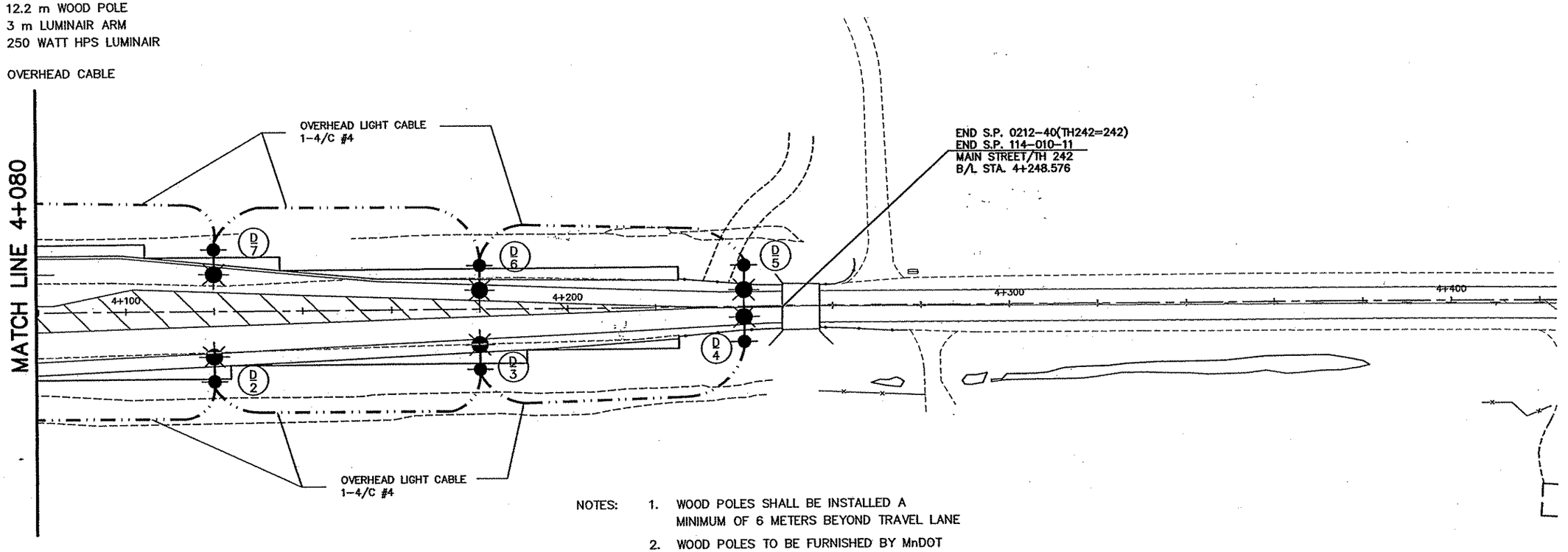
LEGEND

- LIGHTING UNIT TYPE SPECIAL AND FOUNDATION
- LIGHTING UNIT TYPE SPECIAL 1 ON BRIDGE MOUNT
- 250 WATT METAL HALIDE LUMINAIRE, SHOE BOX TYPE ON 9m POLE
- LIGHTING UNIT TYPE SPECIAL 2 (FEATURE WALL UPLIGHT)
- F & I FEED POINT (120/240V)
- HANDHOLE
- CONDUIT
- CONDUIT (FROM OTHERS)
- GFI RECEPTACLE
- 12.2 m WOOD POLE, 3 m LUMINAIR ARM, 250 WATT HPS LUMINAIR
- OVERHEAD CABLE

(D2) THRU (D7) INSTALL: 12.2 m WOOD POLE
F & I: 3 m LUMINAIRE ARM
250 W HPS LUMINAIRE
2 – 4/c #4 OVERHEAD LIGHT CABLE

NORTH

5 0 10 20
HORIZONTAL SCALE IN METERS



NOTES:
1. WOOD POLES SHALL BE INSTALLED A MINIMUM OF 6 METERS BEYOND TRAVEL LANE
2. WOOD POLES TO BE FURNISHED BY MnDOT
3. POLE DEPTH (IN GROUND) IS TO BE 2 m MINIMUM OR 20% THE LENGTH OF THE POLE.

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	tws	1-3-99	Moved matchline to 4+080
2	JAS	4/22/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: TWS | DESIGN BY: RJG
CHKED. BY: TWS | DWG. NAME: LITE_4E1
DATE: DECEMBER 29, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Brem

DATE: 11-05-99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
TEMPORARY LIGHTING SYSTEM LAYOUT
STATION 4+080.000 TO STATION 4+420.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 330 / 539

R

FEED POINT A
LIGHTING STANDARDS, BASES, & GFI'S

NO.	STATION	LT	RT	TYPE
1	2+248.912		X	SPEC
2	2+213.912		X	SPEC
3	2+178.813		X	SPEC
4	2+143.930		X	SPEC
5	2+108.987		X	SPEC
6	2+073.987		X	SPEC
7	2+251.672		X	SPEC
8	2+216.672	X		SPEC
9	2+181.672	X		SPEC
10	2+148.672	X		SPEC
11	2+111.672	X		SPEC
12	2+076.672	X		SPEC
13	2+352.416		X	SPEC
14	2+387.416		X	SPEC
15	2+422.416		X	SPEC
16	2+457.416		X	SPEC
17	2+492.270		X	SPEC
18	2+527.341		X	SPEC
19	2+562.327		X	SPEC
20	2+354.707	X		SPEC
21	2+389.707	X		SPEC
22	2+424.792	X		SPEC
23	2+459.700	X		SPEC
24	2+494.631	X		SPEC
25	2+529.631	X		SPEC
26	2+564.631	X		SPEC
27	2+060.000	X		SPEC2
28	2+270.000		X	SPEC2
29	2+340.000	X		SPEC2
30	2+590.000		X	SPEC2
31	2+590.000		X	SPEC2

R

FEED POINT B
LIGHTING STANDARDS, BASES, AND GFI'S

NO.	STATION	LT	RT	TYPE
1	2+839.862		X	SPEC
2	2+804.888		X	SPEC
3	2+769.889		X	SPEC
4	2+734.896		X	SPEC
5	2+699.963		X	SPEC
6	2+664.964		X	SPEC
7	2+841.576	X		SPEC
8	2+806.554	X		SPEC
9	2+771.608	X		SPEC
10	2+736.631	X		SPEC
11	2+701.630	X		SPEC
12	2+666.630	X		SPEC
13	2+945.221		X	SPEC
14	2+980.198		X	SPEC
15	3+015.155		X	SPEC
16	3+050.156		X	SPEC
17	3+085.157		X	SPEC
18	3+120.156		X	SPEC
19	3+155.008		X	SPEC
20	3+190.088		X	SPEC
21	3+224.304		X	SPEC
22	2+943.922	X		SPEC
23	2+978.923	X		SPEC
24	3+014.406	X		SPEC
25	3+048.910	X		SPEC
26	3+083.911	X		SPEC
27	3+112.913	X		SPEC
28	3+150.908	X		SPEC
29	3+186.103	X		SPEC
30	3+221.095	X		SPEC
31	2+860.000		X	SPEC2
32	2+650.000	X		SPEC2
33	2+943.922	X		SPEC2

R

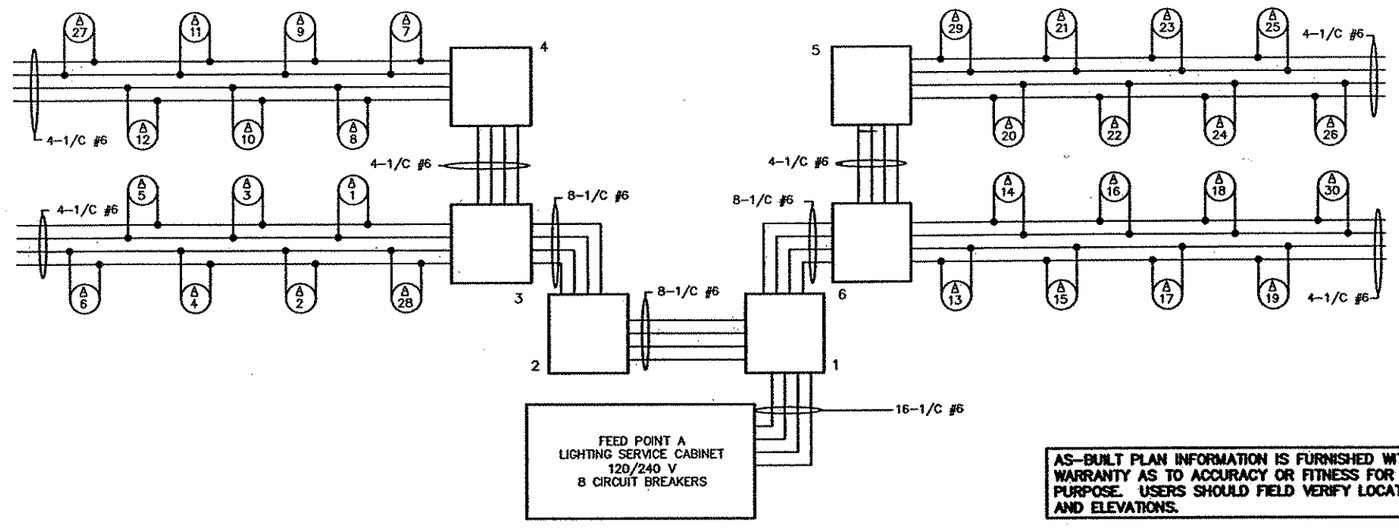
FEED POINT C
LIGHTING STANDARDS AND BASES

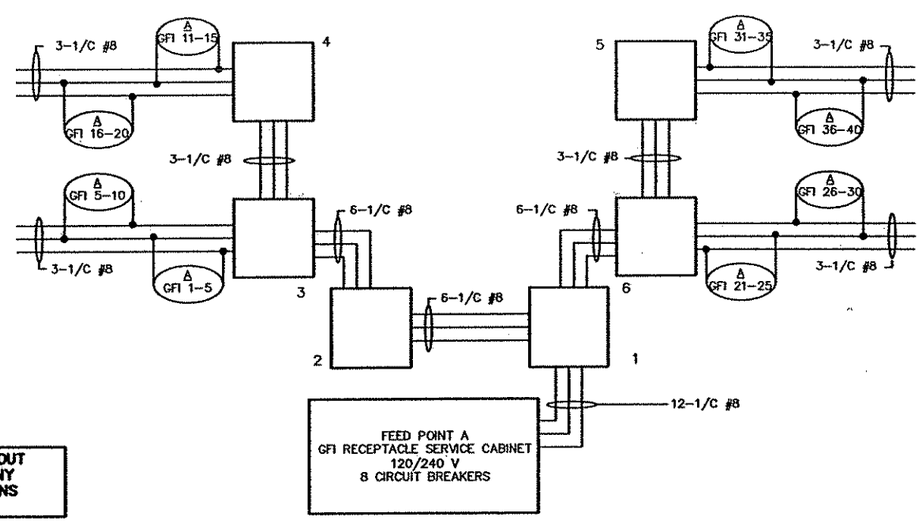
NO.	STATION	LT	RT	TYPE
1	3+475.986		X	SPEC
2	Bridge Mount		X	SPEC1
3	Bridge Mount		X	SPEC1
4	Bridge Mount		X	SPEC1
5	3+315.801		X	SPEC
6	3+484.00	X		SPEC
7	3+448.298	X		SPEC
8	Bridge Mount	X		SPEC1
9	Bridge Mount	X		SPEC1
10	Bridge Mount	X		SPEC1
11	3+290.295	X		SPEC
12	3+588.466		X	1X-9
13	3+628.465		X	1X-9
14	3+668.465		X	1X-9
15	3+708.465		X	1X-9
16	3+746.465		X	1X-9
17	3+788.465		X	1X-9
18	3+828.464		X	1X-9
19	3+868.464		X	1X-9
20	3+908.464		X	1X-9
21	3+948.608		X	1X-9
22	3+576.579	X		1X-9
23	3+616.579	X		1X-9
24	3+656.579	X		1X-9
25	3+696.579	X		1X-9
26	3+736.542	X		1X-9
27	3+776.578	X		1X-9
28	3+816.578	X		1X-9
29	3+856.578	X		1X-9
30	3+896.578	X		1X-9
31	3+936.578	X		1X-9
32	3+980.000	X		1X-9
33	3+535.000	X		SPEC2
34	3+970.000		X	SPEC2

R

GFI RECEPTACLES

FD PT	NO.	STATION	LT	RT
SPEC	GFI 1-10	2+075.000		X
SPEC	GFI 11-20	2+250.000	X	
SPEC	GFI 21-30	2+350.000		X
SPEC	GFI 31-40	2+560.000		
SPEC1	GFI 1-10	2+665.000		X
SPEC1	GFI 11-20	2+842.000	X	
SPEC1	GFI 21-30	2+945.000		X
SPEC1	GFI 31-38	3+210.000	X	
SPEC1	GFI 39-48	3+225.000		X





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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	6/16/00	MOD.REQ.#22: REVISED WIRING DIAGRAM FOR FD PT A
			FOR THE ADDITION OF GFI RECEPT. CABINET; REVISED TAB
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: TWS | DESIGN BY: TWS
CHKED. BY: RJG | DWG. NAME: Feedpt_A
DATE: JUNE 12, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Robert J. Brown

DATE: 06-12-00 MINN. REG. NO. 22793

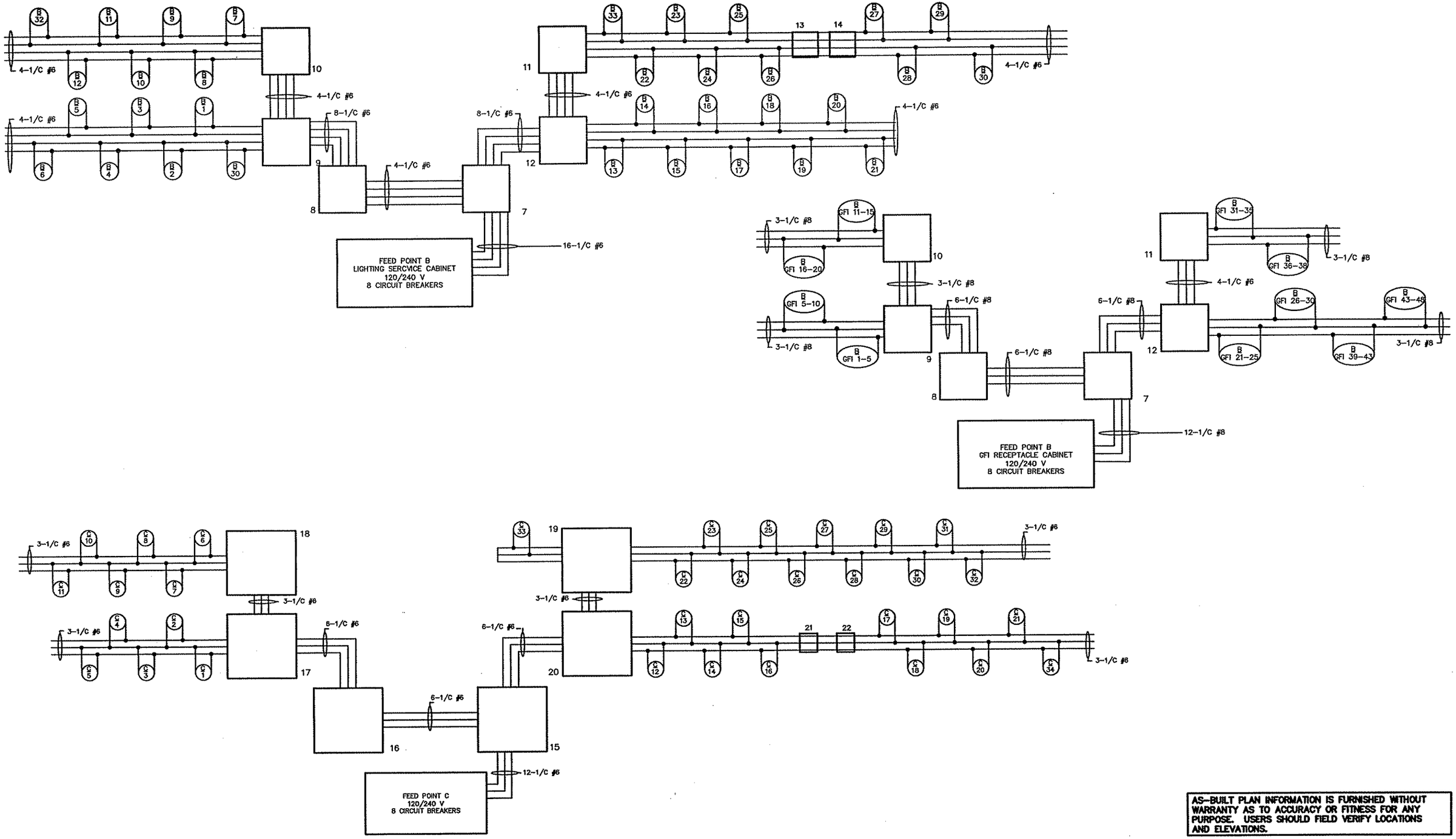
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
LIGHTING SYSTEM WIRING AND TABULATION

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 331 / 539

PLOT DATE: Aug 03, 8:32am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\LIGHTING\Feedpt_a.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	6/16/00	MOD.REQ.#22: REVISED WIRING DIAGRAM FOR FD PT B FOR THE ADDITION OF GFI RECEPT. CABINET
2	TWS	06/19/00	MOD.REQ.#22: ADD LIGHT B-30 TO FEED POINT B
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: TWS | DESIGN BY: TWS
CHKED. BY: RJG | DWG. NAME: Feedpt_B
DATE: JUNE 12, 2000

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Robert J. Grem

DATE: 06-12-00 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
LIGHTING SYSTEM WIRING

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 332 / 539

PLOT DATE: Aug 03, 4 8:34am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\LIGHTING\Feedpt_b.dwg

THE FOLLOWING STANDARD PLATES APPROVED BY THE DEPT. OF TRANSPORTATION AND THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT.

	STANDARD PLATES	
	PLATE NO.	DESCRIPTION
*	8106A	EQUIPMENT PAD B
	M8127B	LIGHT BASE DESIGN E
	M8140B	ROADWAY LIGHTING SERVICE CABINET

* ENGLISH STANDARD PLATE

TABULATION

S

S.P. 0212-40

ITEM	UNIT	ESTIMATED QUANTITIES
REMOVE LIGHTING UNIT	EACH	19
REMOVE LIGHT STANDARD BASE	EACH	19
SALVAGE SERVICE CABINET	EACH	1
LIGHTING UNIT TYPE 3-12	EACH	2
LIGHTING UNIT TYPE 4-12	EACH	12
LIGHT BASE DESIGN E	EACH	14
78 mm RIGID STEEL CONDUIT	m	54
78 mm RIGID STEEL CONDUIT (PUSHED)	m	56
ARMORED CABLE 3 CONDUCTOR NO. 4	m	1729
SERVICE CABINET SECONDARY TYPE L1	EACH	1
EQUIPMENT PAD B	EACH	1

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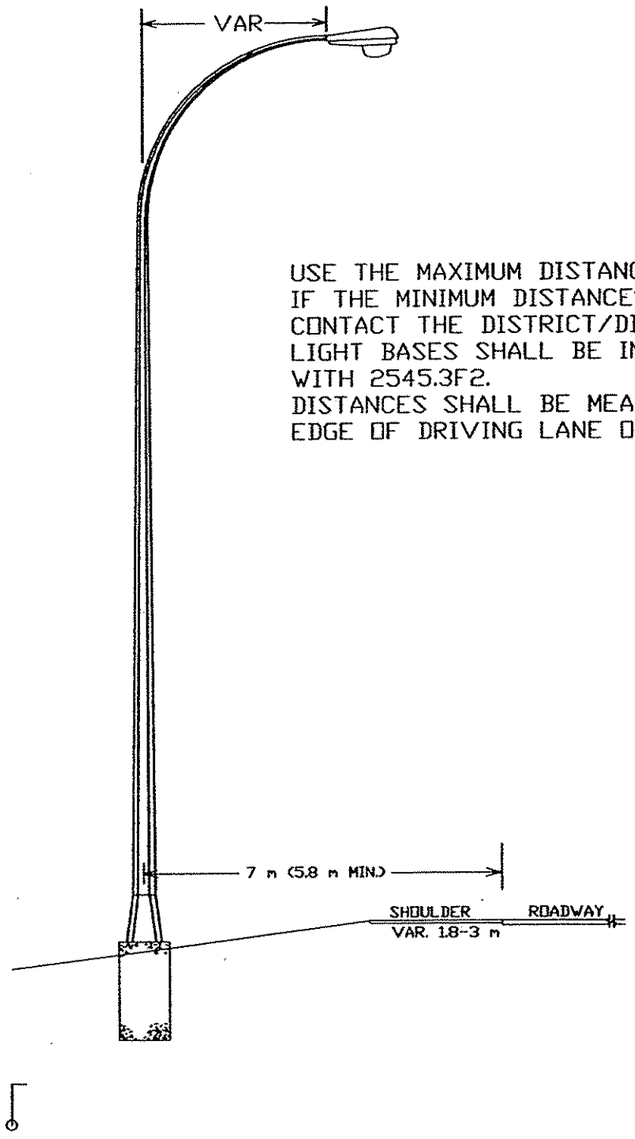
LIGHTING DETAIL

CERTIFIED BY Susan J. Lodale PROFESSIONAL ENGINEER REG. NO. 21180

State Proj. No. 0212-40

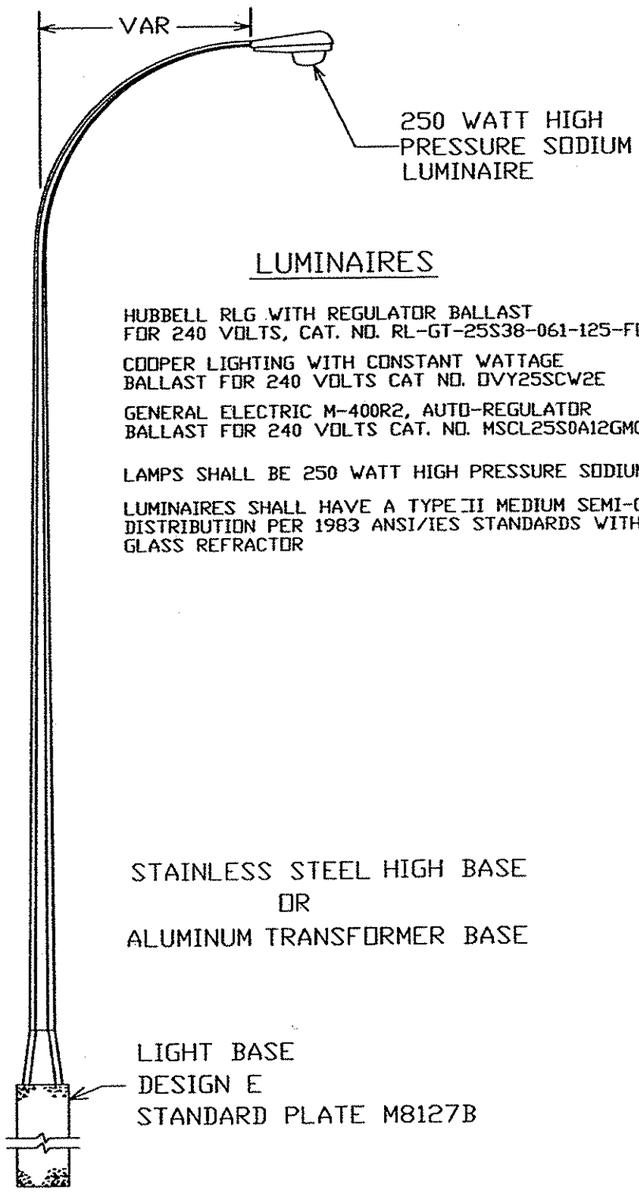
Sheet No. 333 of 539 Sheets

FILE ... 021240-2.DGN



USE THE MAXIMUM DISTANCE WHENEVER POSSIBLE,
IF THE MINIMUM DISTANCE CANNOT BE OBTAINED
CONTACT THE DISTRICT/DIVISION TRAFFIC ENGINEER
LIGHT BASES SHALL BE INSTALLED IN ACCORDANCE
WITH 2545.3F2.
DISTANCES SHALL BE MEASURED FROM THE
EDGE OF DRIVING LANE OR TURN LANE.

PLACEMENT OF LIGHTING UNITS TYPE 3-12 & 4-12



LUMINAIRES

HUBBELL RLG WITH REGULATOR BALLAST
FOR 240 VOLTS, CAT. NO. RL-GT-25S38-061-125-FD-M53

COOPER LIGHTING WITH CONSTANT WATTAGE
BALLAST FOR 240 VOLTS CAT NO. OVY25SCW2E

GENERAL ELECTRIC M-400R2, AUTO-REGULATOR
BALLAST FOR 240 VOLTS CAT. NO. MSCL25S0A12GMC2

} OR APPROVED EQUAL

LAMPS SHALL BE 250 WATT HIGH PRESSURE SODIUM

LUMINAIRES SHALL HAVE A TYPE II MEDIUM SEMI-CUTOFF
DISTRIBUTION PER 1983 ANSI/IES STANDARDS WITH
GLASS REFRACTOR

BREAKAWAY LIGHTING UNIT TYPE 3-12 & 4-12

FILE ...021240-2.DGN

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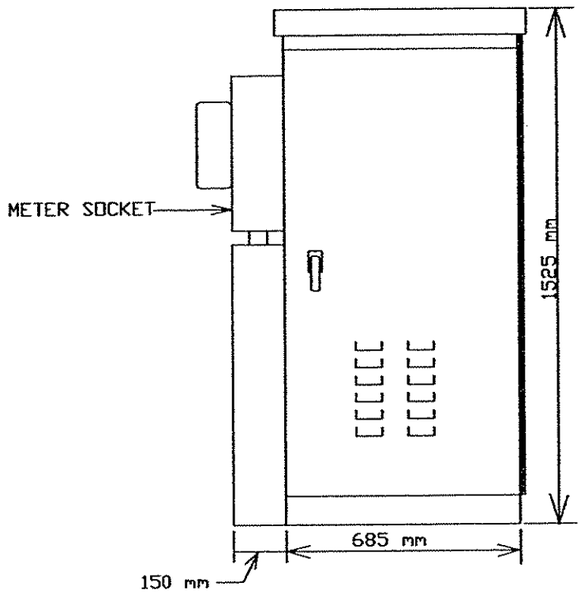
LIGHTING DETAIL

CERTIFIED BY Susan A. Ladale PROFESSIONAL ENGINEER REG. NO. 21180

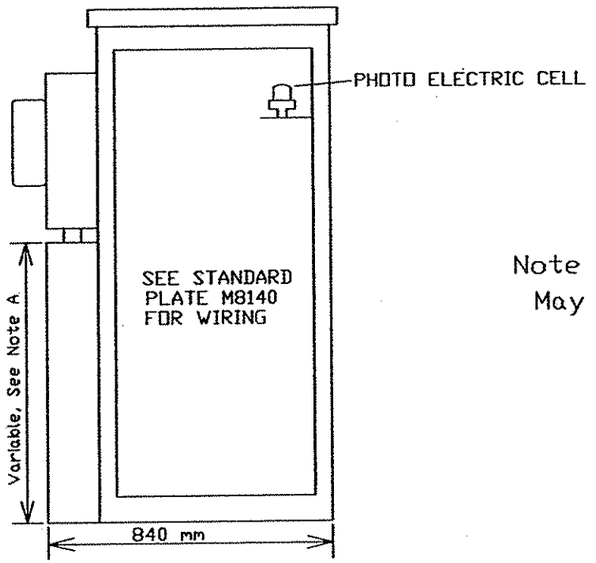
State Proj. No. 0212-40

Sheet No. 334 of 539 Sheets

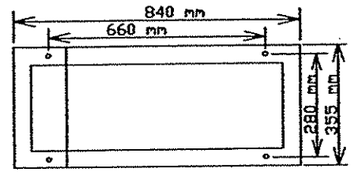
EXTERNAL



INTERNAL



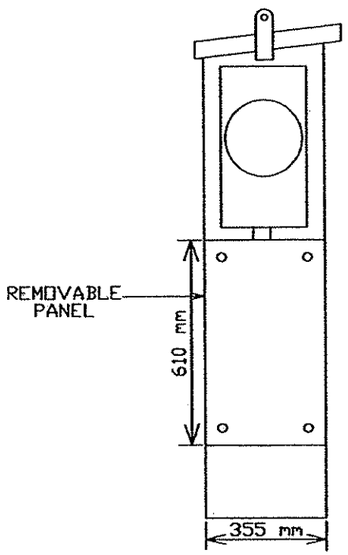
PAD MOUNTING PATTERN



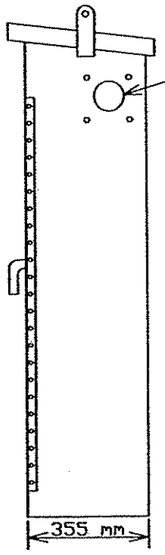
Note A: Height of compartment is approximately 840 mm. May vary depending upon size of meter socket.

SIDE VIEWS

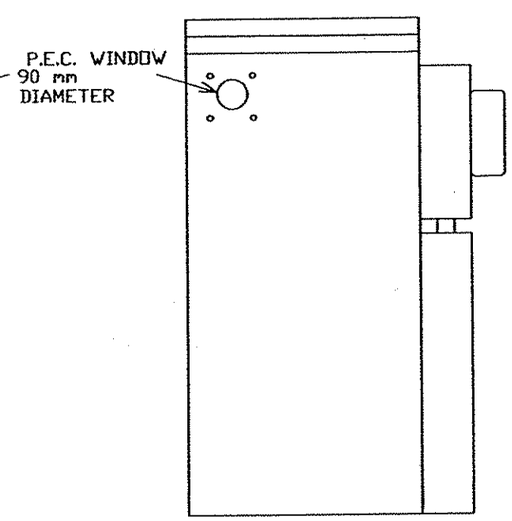
LEFT

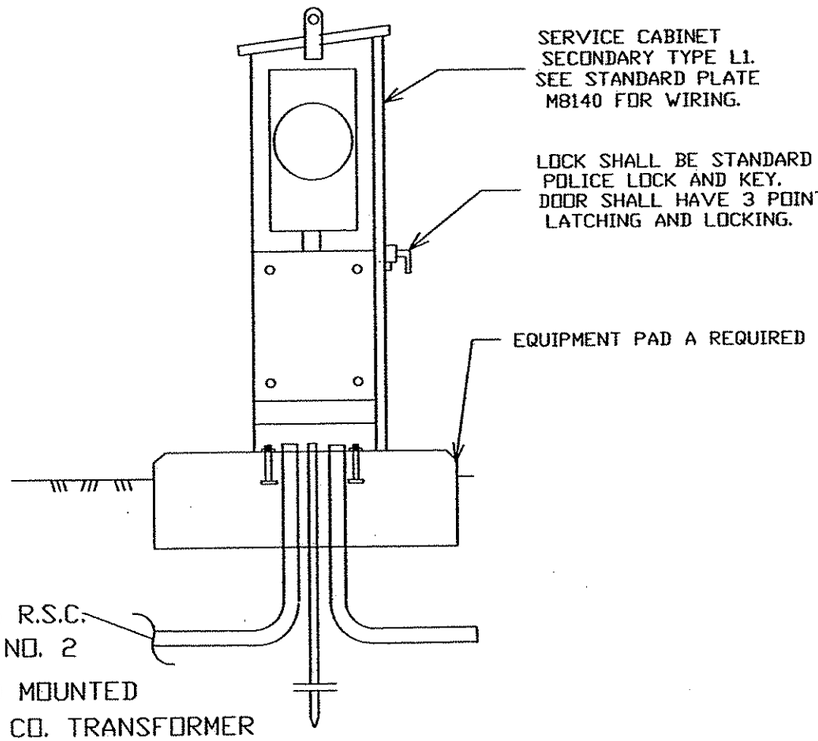


RIGHT



BACK VIEW





LIGHTING SERVICE CABINET

SERVICE CABINET SECONDARY TYPE L1

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FILE : 021240-2.DGN

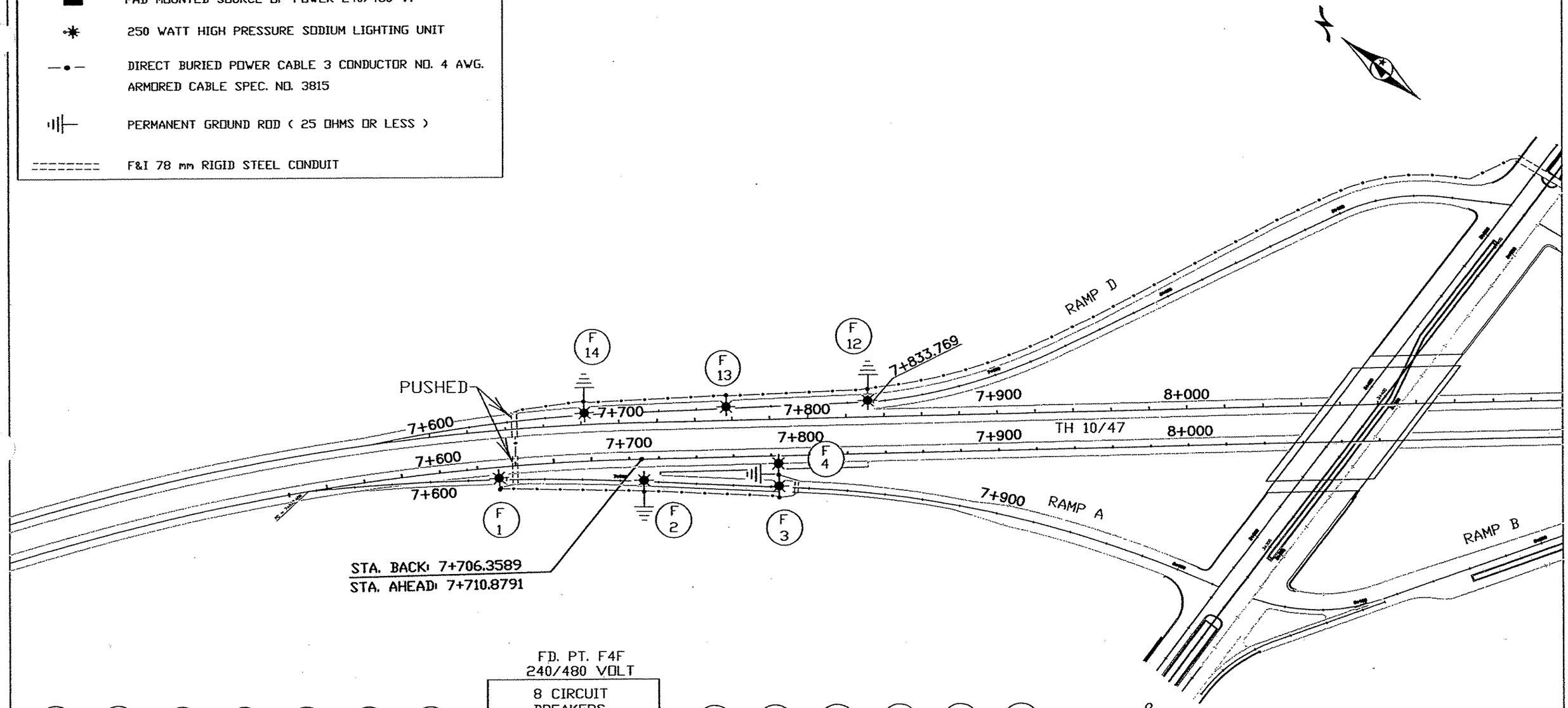
CERTIFIED BY Susan J. Ladale PROFESSIONAL ENGINEER REG. NO. 21180

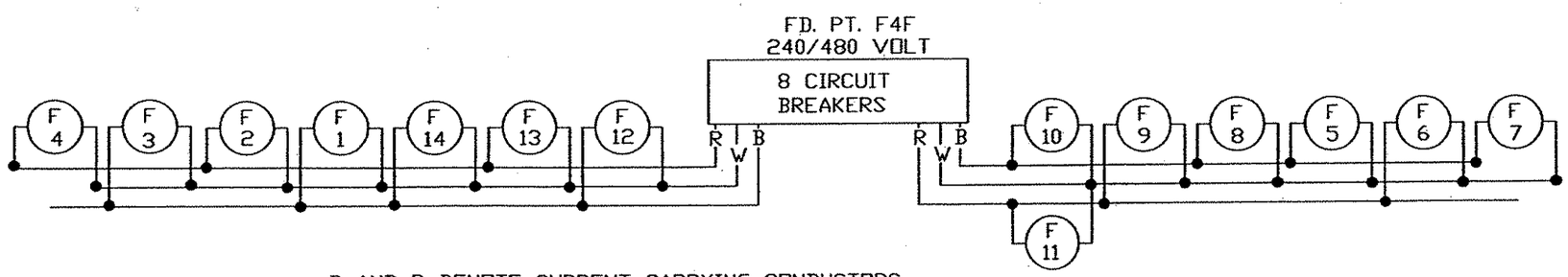
State Proj. No. 0212-40

LIGHTING DETAIL

LEGEND

- PAD MOUNTED SOURCE OF POWER 240/480 V.
- 250 WATT HIGH PRESSURE SODIUM LIGHTING UNIT
- DIRECT BURIED POWER CABLE 3 CONDUCTOR NO. 4 AWG. ARMORED CABLE SPEC. NO. 3815
- PERMANENT GROUND ROD (25 OHMS OR LESS)
- F&I 78 mm RIGID STEEL CONDUIT





B AND R DENOTE CURRENT CARRYING CONDUCTORS
W DENOTES NEUTRAL CONDUCTOR

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

FILE : 021240-2.DGN

CERTIFIED BY Susan J. Ladale PROFESSIONAL ENGINEER REG. NO. 21180

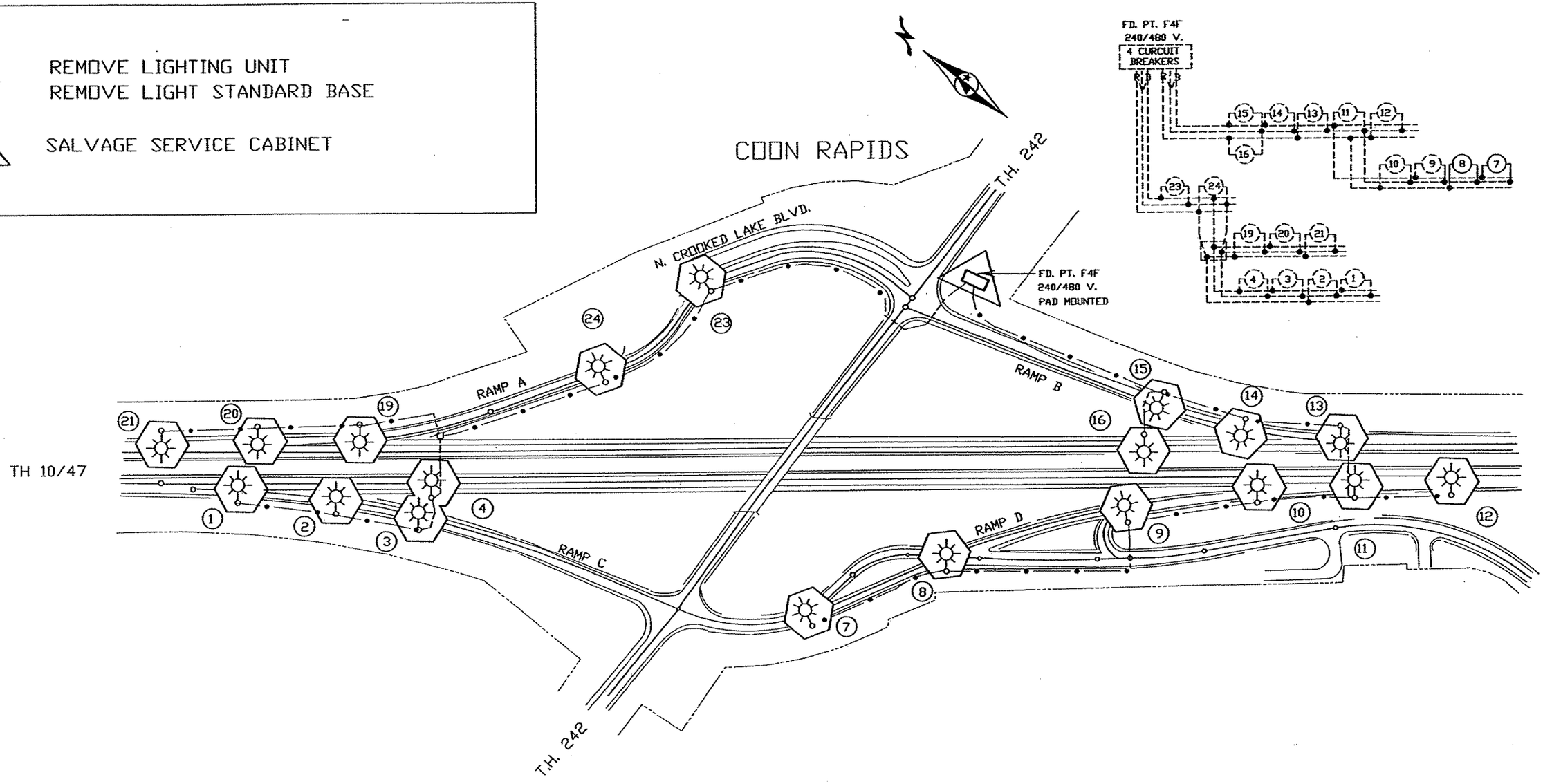
State Proj. No. 0212-40

LIGHTING PLAN

Sheet No. 336 of 539 Sheets

REMOVE LIGHTING UNIT
REMOVE LIGHT STANDARD BASE

SALVAGE SERVICE CABINET



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REMOVAL PLAN

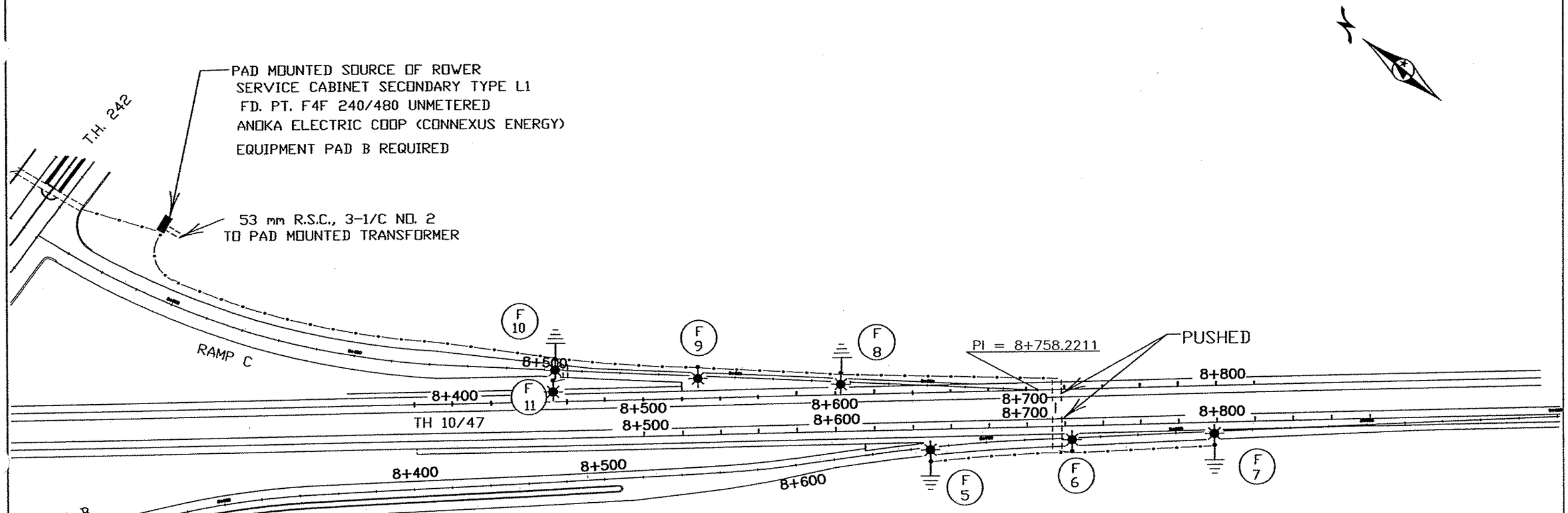
LIGHTING PLAN

CERTIFIED BY Susan J. Lotzar PROFESSIONAL ENGINEER REG. NO. 21180

State Proj. No. 0212-40

Sheet No. 337 of 539 Sheets

FILE J 021240-2.DGN



FD. PT. F4F

LIGHTING STANDARDS AND BASES					
NO.	STATION	LT.	RT.	LOCATION	TYPE
1	7+630		–	T.H. 10	4-12
2	7+709		–	T.H. 10	4-12
3	7+784		–	T.H. 10	3-12
4	7+784		–	T.H. 10	4-12
5	8+648		–	T.H. 10	4-12
6	8+723		–	T.H. 10	4-12
7	8+798		–	T.H. 10	4-12
8	8+603	–		T.H. 10	4-12
9	8+528	–		T.H. 10	4-12
10	8+452	–		T.H. 10	3-12
11	8+452	–		T.H. 10	4-12
12	7+832	–		T.H. 10	4-12
13	7+757	–		T.H. 10	4-12
14	7+682	–		T.H. 10	4-12

FILE 021240-2.DGN

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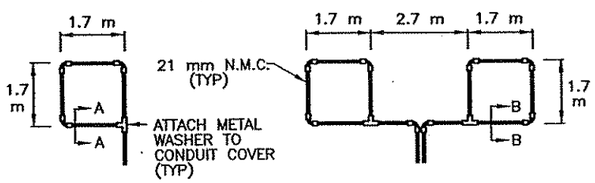
LIGHTING PLAN

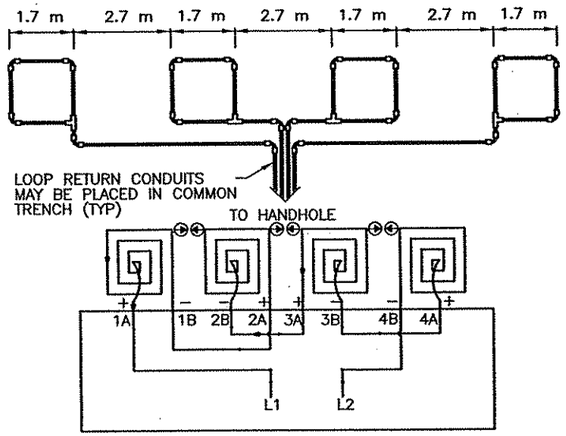
CERTIFIED BY Susan J. Lodale PROFESSIONAL ENGINEER REG. NO. 21180

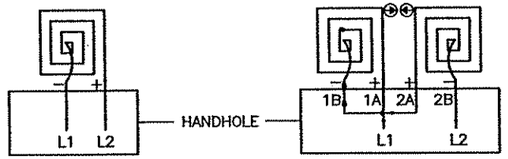
State Proj. No. 0212-40

Sheet No. 338 of 539 Sheets

SAPBOX







LOOP DETECTOR DETAIL 'A'
(LOOP PHASING FOR SINGLE CONNECTION)

LOOP CONNECTIONS SHALL BE LABELED AND SPLICED IN THE HANDHOLE AS FOLLOWS:

L1 TO 1A
1B TO 2A
2B TO L2

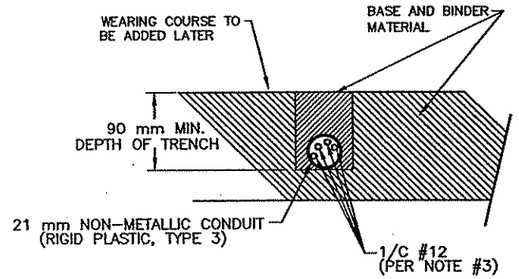
LOOP DETECTOR DETAIL 'B'
(LOOP PHASING FOR SERIES CONNECTION)

LOOP CONNECTIONS SHALL BE LABELED AND SPLICED IN THE HANDHOLE AS FOLLOWS:

L1 TO 1A
1B TO 2A
2B TO 3A
3B TO 4A
4B TO L2

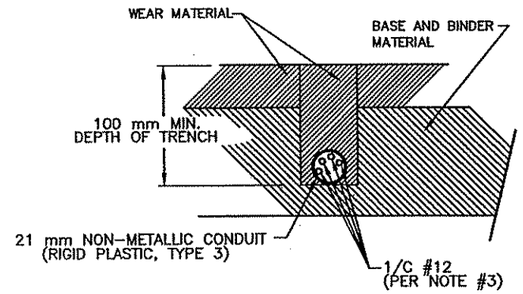
SPLICE CONTROL CABLE TO L1 & L2 IN HANDHOLE. ALL CONDUCTORS SHALL BE TAGGED IN HANDHOLE (1A, 1B, ECT)

LOOP DETECTOR DETAIL 'C'
(LOOP PHASING FOR SERIES CONNECTION)



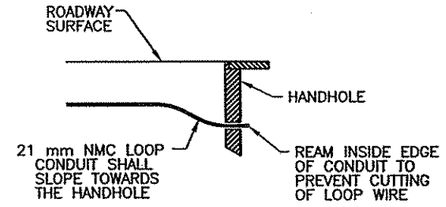
SECTION A–A

DETAIL FOR LOOP INSTALLATION IN NEW ROADWAY



SECTION B–B

DETAIL FOR LOOP INSTALLATION IN EXISTING ROADWAY



DRAINAGE DETAIL

LOOP DETECTOR WIRING

1) ALL CORNERS SHALL BE 90° CONDUIT BENDS.
2) CONNECT WIRES IN HANDHOLES USING SPLICE KIT METHOD DESCRIBED IN THE SPECIAL PROVISIONS.
3) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSSED LINKED POLYETHYLENE (XLP). SEE SPECIAL PROVISIONS.
4) LOOP LEAD IN WIRES SHALL BE TWISTED A MIN. OF (5) TURNS PER 0.3 METER (1 FOOT) THROUGH THE CONDUIT TO THE HANDHOLE.
5) NMC DESIGNATES NON-METALLIC CONDUIT (SPEC. 3803)
6) LOOPS 1.7 m x 1.7 m THRU 1.7 m x 4.3 m SHALL HAVE (4) TURNS.
7) LOOPS 1.7 m x 4.6 m AND LARGER SHALL HAVE (2) TURNS.

STANDARD PLATES

THESE STANDARD PLATES AS APPROVED BY FHWA SHALL APPLY:

	PLATE NO.	DESCRIPTION
*	MB110 D	TRAFFIC SIGNAL BRACKETING – POLE MOUNTED
*	MB111 C	TRAFFIC SIGNAL BRACKETING – PEDESTAL MOUNTED
*	MB112 C	PEDESTAL FOUNDATION
*	MB114 A	PVC HANDHOLE/PULLBOX
*	MB115 D	PEDESTRIAN PUSH BUTTON INSTALLATION
*	MB118 C	SERVICE EQUIPMENT AND POLE–TRAFFIC CONTROL SIGNALS
*	MB119 C	GROUND MOUNTED CABINET FOUNDATION
*	MB120 K	POLE FOUNDATION (PA85)
*	MB121 D	TRANSFORMER BASE AND POLE BASE PLATE
*	MB122 C	PEDESTAL AND PEDESTAL BASE
*	MB123 D	POLE AND MAST ARM
*	MB124 E	MAST ARM SIGNAL HEAD MOUNTS
*	MB126 F	POLE FOUNDATION (PA90 AND PA100)

* – APPLIES TO THIS PROJECT

LEGEND OF SYMBOLS

CONTROLLER AND SERVICE EQUIP. NO's
SIGNAL BASE NO.
SIGNAL FACE NO.
LUMINAIRE NO.
CONTROLLER AND CABINET
CONTROLLER AND CABINET – IN PLACE
HANDHOLE
HANDHOLE – IN PLACE
RIGID STEEL CONDUIT (RSC)
RIGID STEEL CONDUIT (RSC) – IN PLACE
SIGNAL FACE WITH BACKGROUND SHIELD
SIGNAL FACE W/O BACKGROUND SHIELD
SIGNAL FACE – IN PLACE
PEDESTRIAN INDICATORS
PEDESTRIAN INDICATORS – IN PLACE
PEDESTRIAN PUSH BUTTONS ON PEDESTAL OR POLE
PEDESTRIAN PUSH BUTTON STATION
TRAFFIC SIGNAL PEDESTAL
TRAFFIC SIGNAL PEDESTAL – INPLACE
TRAFFIC SIGNAL POLE AND MAST ARM
TRAFFIC SIGNAL POLE AND MAST ARM – IN PLACE
STREET LIGHT POLE AND LUMINAIRE
STREET LIGHT POLE AND LUMINAIRE – IN PLACE
MAST ARM AND LUMINAIRE
MAST ARM AND LUMINAIRE – INPLACE
WOOD POLE
WOOD POLE – IN PLACE
SOURCE OF POWER
RAILROAD SIGNAL – IN PLACE
RIGHT OF WAY LINE
CENTERLINE
EDGE OF ROADWAY
SHOULDERLINE
CURB LINE
STOP BAR
MICROWAVE VEHICLE SENSOR
ONE EVP DETECTOR AND LIGHT

ABBREVIATIONS

3–1(EG)	SIGNAL HEAD PHASE "3" – NO "1"	P2–1(EG)	PEDESTRIAN INDICATION PHASE "2" – NO. "1"
BR. GR.	BARE GROUND	PB	PUSH BUTTON
CH. SW.	CHECK SWITCH	PB2–1(EG)	PUSH BUTTON PHASE "2" – NO. "1"
CLR	CLEAR	PEC	PHOTOELECTRIC CELL
D2–1(EG)	DETECTOR PHASE "2" – NO. "1"	PED	PEDESTRIAN
DWK	DON'T WALK	R	RED
EQG	EQUIPMENT GROUND	R&S	REMOVE AND SALVAGE
EVP	EMERGENCY VEHICLE PRE–EMPTION	RLTA	RED LEFT TURN ARROW
F&I	FURNISH AND INSTALL	RRTA	RED RIGHT TURN ARROW
FL	FLASH/FLASHING	RSC	RIGID STEEL CONDUIT
FO	FIBER OPTIC	SOP	SOURCE OF POWER
G	GREEN	SPR	SPARE
GLTA	GREEN LEFT TURN ARROW	ST. LHT	STREET LIGHT
GRN	GREEN	STA	STATION
GR. R	GROUND ROD	SW	SWITCH
GRTA	GREEN RIGHT TURN ARROW	SWD	SWITCHED
GTHA	GREEN THRU ARROW	S&R	SALVAGE AND REINSTALL
HH	HANDHOLE	TDW	TELEPHONE DROP WIRE
HPS	HIGH PRESSURE SODIUM	WLK	WALK
JB	JUNCTION BOX	YEL	YELLOW
LUM	LUMINAIRE	YLTA	YELLOW LEFT TURN ARROW
NEU	NEUTRAL	YRTA	YELLOW RIGHT TURN ARROW
NMC	NONMETALLIC CONDUIT	YTHA	YELLOW THRU ARROW

CONDUCTOR COLOR CODE

R	RED
O	ORANGE
BL	BLUE
WH	WHITE
R/BLK	RED WITH BLACK TRACER
O/BLK	ORANGE WITH BLACK TRACER
BL/BLK	BLUE WITH BLACK TRACER
WH/BLK	WHITE WITH BLACK TRACER
BLK	BLACK
BLK/WH	BLACK WITH WHITE TRACER
G/BLK	GREEN WITH BLACK TRACER
G	GREEN

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/6/2000	UPDATED LEGEND & SYMBOLS AND ABBREVIATIONS
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: SIGDET_1
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
NMC LOOP DETECTOR DETAILS AND STANDARD PLATES

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

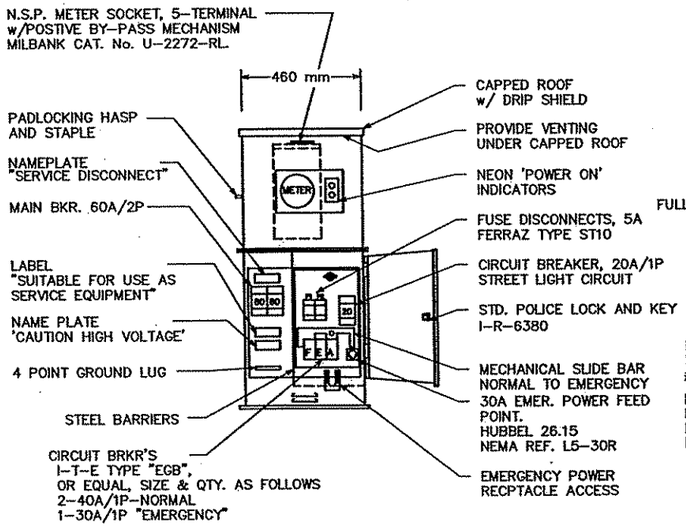
SHEET NO. 339 / 539

PLOT DATE: Jul 06, 2004 12:45pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As–Built\Sigdet_1.dwg

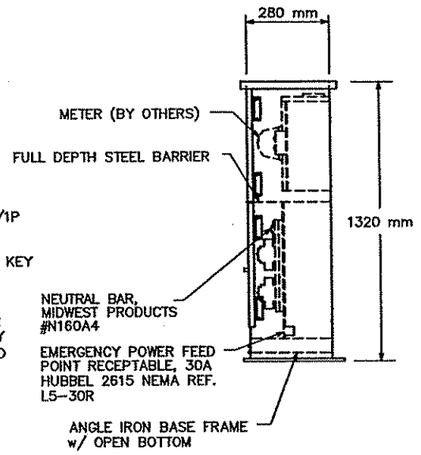
F DRAWINGS

SAPBOX

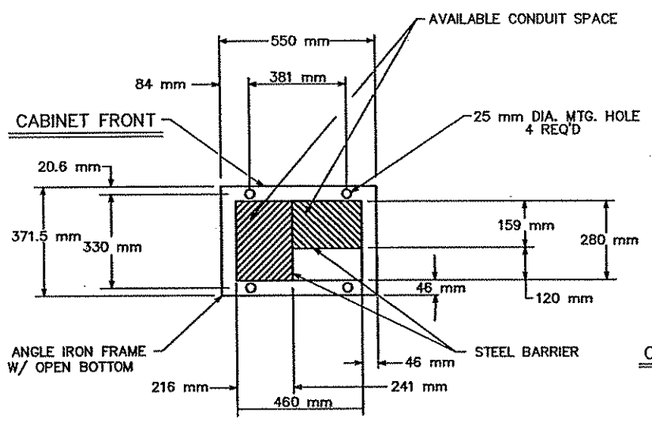
SIGNAL SERVICE CABINET



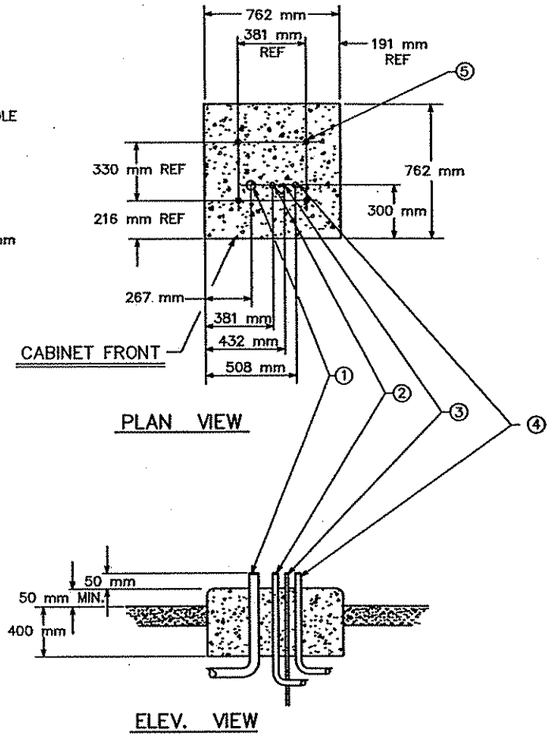
FRONT ELEV.



RIGHT SIDE ELEV.



BASE VIEW



PLAN VIEW

ELEV. VIEW

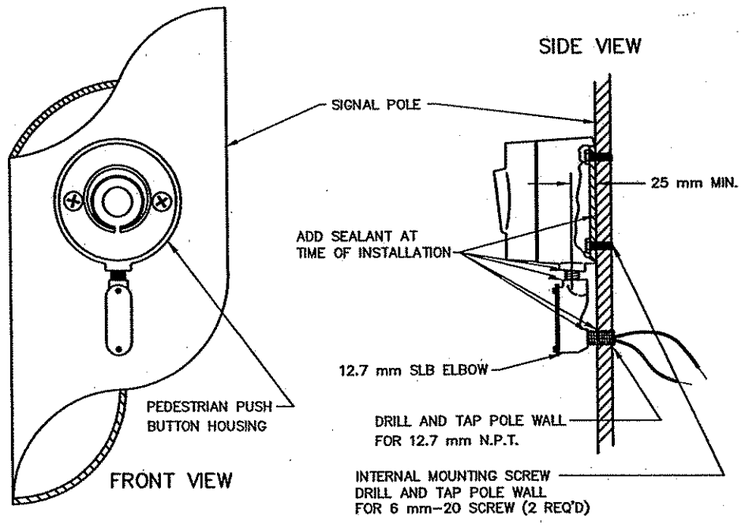
① 53 mm RSC TO HANDHOLE (FOR SOP CONNEXUS)
② 35 mm RSC TO CONTROLLER CABINET (VIA HH)
③ GROUNDING ROD
④ 53 mm RSC TO HANDHOLE (FOR STREET LIGHTING)
⑤ ANCHOR BOLT LOCATIONS (4 REQUIRED)

CONSTRUCTION NOTES

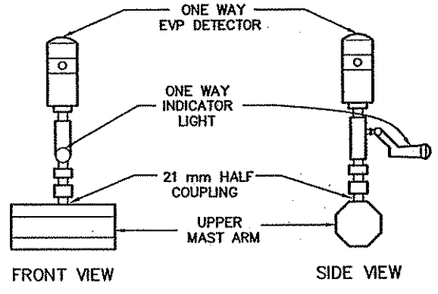
ENCLOSURE SHALL BE FABRICATED FROM #12 GA. ALL WELDED COLD ROLLED STEEL FOR OUTDOOR WEATHER PROOF SERVICE. DOORS TO BE GASKETED, ALL HINGES, PINS AND LOCKS TO BE OF NON CORRODING CONSTRUCTION. CABINET TO BE PRIMED INSIDE AND OUT WITH RUST INHIBITING PRIMER. FINISH PER MN/DOT #3527.

ENCLOSURE SHALL BE 'UL' APPROVED

MAST ARM POLE PEDESTRIAN PUSH BUTTON DETAIL



EVP DETECTOR AND LIGHT MOUNTING DETAIL ON MAST ARM



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: SIGDET_2
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Robert J. Grum

DATE: 12/21/99 MINN. REG. NO. 22793

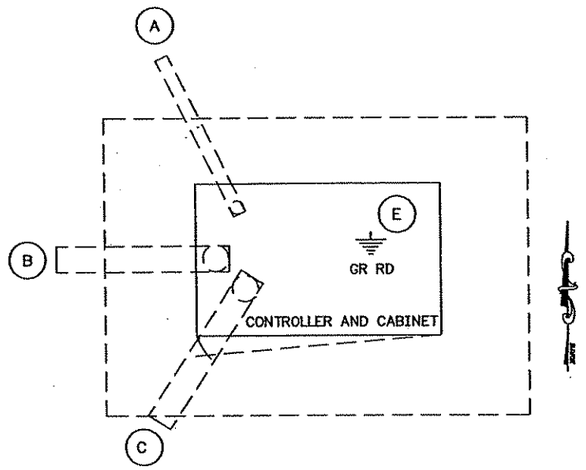
MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
SERVICE CABINET, PEDESTRIAN PUSH BUTTON, AND EVP DETAILS

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 340 / 539

PLOT DATE: Jul 06, 2004 12:45pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Sigdet_2.dwg



(A) INPLACE
35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 1)

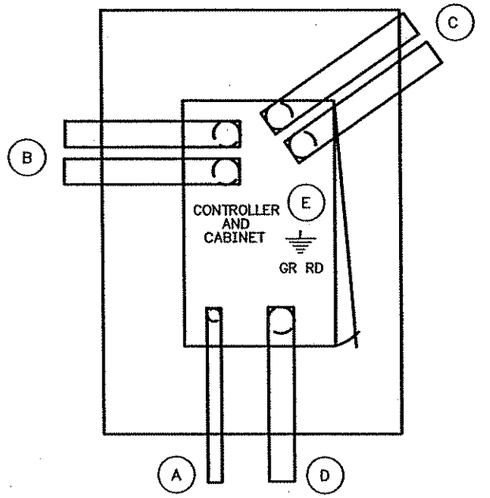
(B) INPLACE
103 mm R.S.C. TO HH 2

(C) INPLACE
103 mm R.S.C. TO HH 3

(E) 15.8 mm DIA X 4.6 m GROUND ROD

SEE INTERSECTION LAYOUT FOR
CONDUIT & CABLE INFORMATION

INPLACE
CONTROLLER CABINET PAD LAYOUT
MAIN ST. (CSAH 14) / ROUND LAKE BLVD.
SIGNAL SYSTEM "A"



(A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 15)

(B) 2–78 mm R.S.C. TO HH 1

(C) 2–78 mm R.S.C. TO HH 15

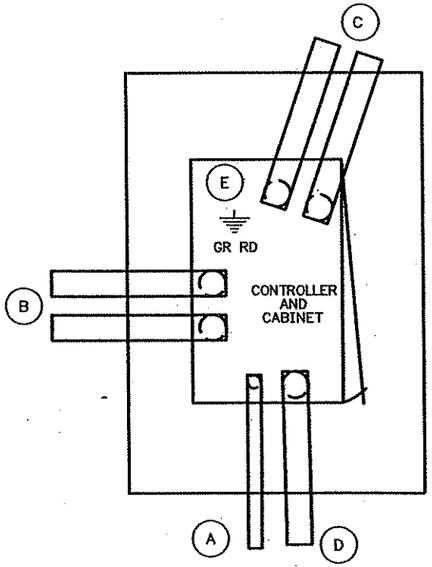
(D) 78 mm R.S.C. TO FIBER–OPTIC VAULT

(E) 15.8 mm DIA X 4.6 m GROUND ROD

CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. M8119 FOR DIMENSIONS.

SEE INTERSECTION LAYOUT FOR
CONDUIT & CABLE INFORMATION

CONTROLLER CABINET PAD LAYOUT
MAIN ST. (CSAH 14) / RIVER RAPIDS DR.
SIGNAL SYSTEM "B"



(A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 16)

(B) 2–78 mm R.S.C. TO HH 1

(C) 2–78 mm R.S.C. TO HH 15

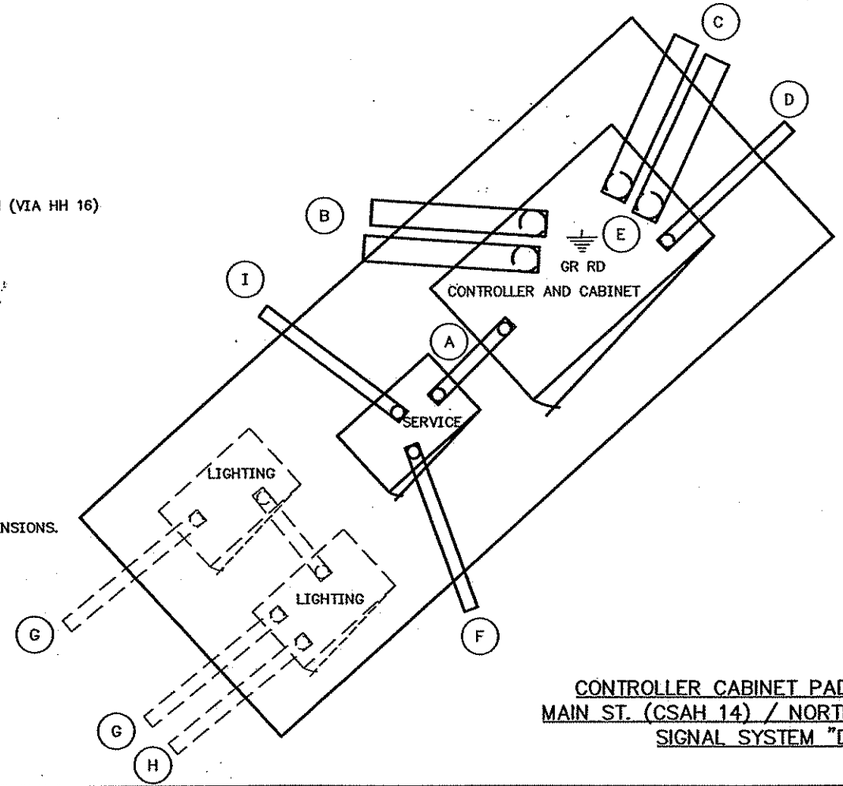
(D) 78 mm R.S.C. TO FIBER–OPTIC VAULT

(E) 15.8 mm DIA X 4.6 m GROUND ROD

CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. M8119 FOR DIMENSIONS.

SEE INTERSECTION LAYOUT FOR
CONDUIT & CABLE INFORMATION

CONTROLLER CABINET PAD LAYOUT
MAIN ST. (CSAH 14) / RIVERDALE VILLAGE BLVD.
SIGNAL SYSTEM "C"



(A) 35 mm R.S.C. BETWEEN SERVICE AND CABINET

(B) 2–103 mm R.S.C. TO HH 1

(C) 2–103 mm R.S.C. TO HH 16

(D) 78 mm R.S.C. STUBOUT, THREAD & CAP BOTH ENDS (FOR FUTURE USE).

(E) 15.8 mm DIA X 4.6 m GROUND ROD

(F) 53 mm R.S.C. TO SOP

(G) 53 mm R.S.C. TO LIGHTING HH 7

(H) 53 mm R.S.C. TO SOP

(I) 53 mm R.S.C. TO HH 16 (STREET LIGHTING)

CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. M8119 FOR DIMENSIONS.

SEE INTERSECTION LAYOUT FOR
CONDUIT & CABLE INFORMATION

CONTROLLER CABINET PAD LAYOUT
MAIN ST. (CSAH 14) / NORTHDALE BLVD.
SIGNAL SYSTEM "D"

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: SIGDET_4
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
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Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
EQUIPMENT PAD LAYOUTS

CITY PROJECT 98–20

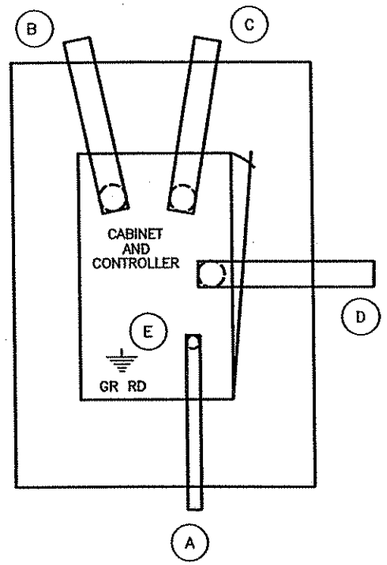
S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 341 / 539

PLOT DATE: Jul 13, 2004 8:13am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As–Built\Sigdet_4.dwg

F DRAWINGS

SAPBOX

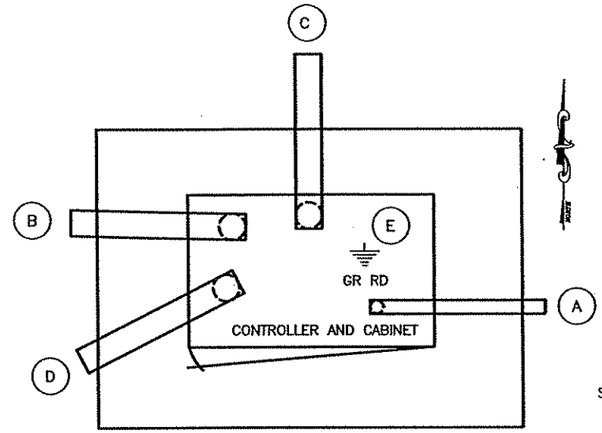


- (A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 12)
- (B) 103 mm R.S.C. TO HH 1
- (C) 103 mm R.S.C. TO HH 11
- (D) 78 mm R.S.C. STUBOUT, THREAD & CAP BOTH ENDS (FOR FUTURE USE).
- (E) 15.8 mm DIA X 4.6 m GROUND ROD

CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. M8119 FOR DIMENSIONS.

SEE INTERSECTION LAYOUT FOR
CONDUIT & CABLE INFORMATION

CONTROLLER CABINET PAD LAYOUT
NORTHDALE BLVD. / 124TH AVE.
SIGNAL SYSTEM "E"

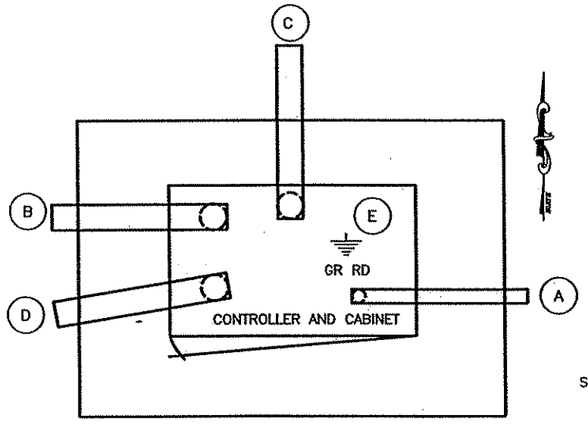


- (A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 13)
- (B) 103 mm R.S.C. TO HH 1
- (C) 103 mm R.S.C. TO HH 12
- (D) 78 mm R.S.C. TO FIBER-OPTIC VAULT
- (E) 15.8 mm DIA X 4.6 m GROUND ROD

CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. M8119 FOR DIMENSIONS.

SEE INTERSECTION LAYOUT FOR
CONDUIT & CABLE INFORMATION

CONTROLLER CABINET PAD LAYOUT
MAIN ST. (CSAH 14) (T.H. 242) / T.H. 10 WEST RAMP
SIGNAL SYSTEM "F"



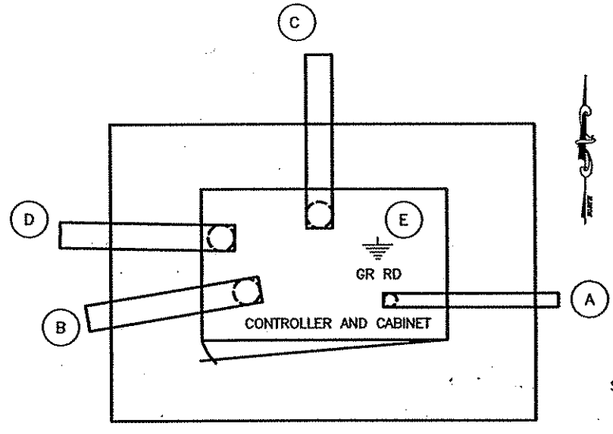
- (A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 13)
- (B) 103 mm R.S.C. TO HH 1
- (C) 103 mm R.S.C. TO HH 12
- (D) 78 mm R.S.C. TO FIBER-OPTIC VAULT
- (E) 15.8 mm DIA X 4.6 m GROUND ROD

CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. M8119 FOR DIMENSIONS.

SEE INTERSECTION LAYOUT FOR
CONDUIT & CABLE INFORMATION

CONTROLLER CABINET PAD LAYOUT
MAIN ST. (T.H. 242) / T.H. 10 EAST RAMP
SIGNAL SYSTEM "G"

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



- (A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 18)
- (B) 103 mm R.S.C. TO HH 1
- (C) 103 mm R.S.C. TO HH 17
- (D) 78 mm R.S.C. TO FIBER-OPTIC VAULT
- (E) 15.8 mm DIA X 4.6 m GROUND ROD

CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. M8119 FOR DIMENSIONS.

SEE INTERSECTION LAYOUT FOR
CONDUIT & CABLE INFORMATION

CONTROLLER CABINET PAD LAYOUT
MAIN ST. (T.H. 242) / COON CREEK BLVD.
SIGNAL SYSTEM "H"

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: SIGDET_5
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

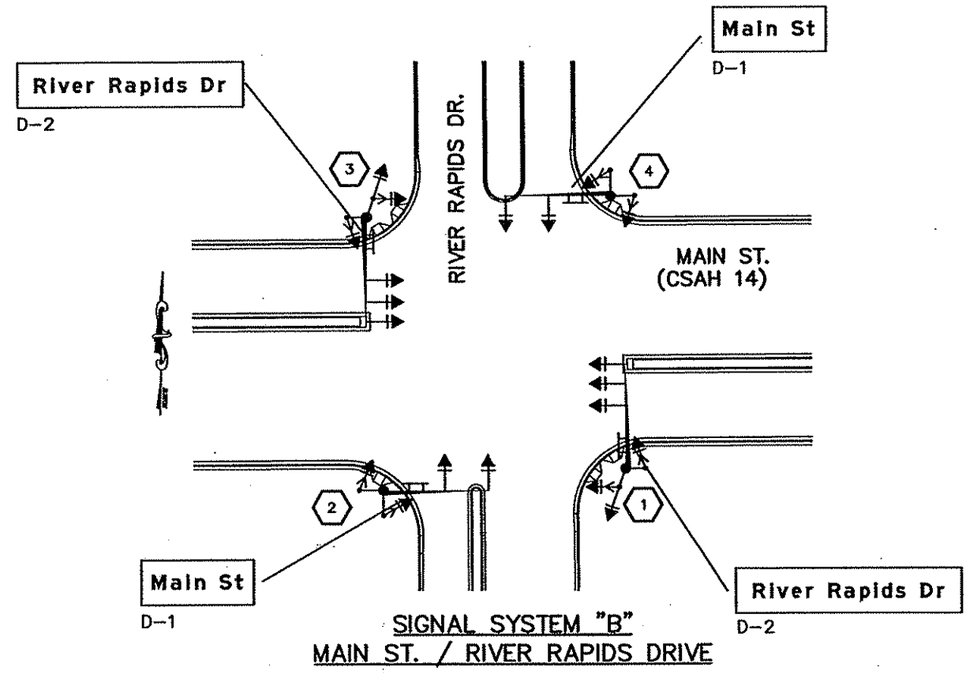
MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
EQUIPMENT PAD LAYOUTS

CITY PROJECT 98-20

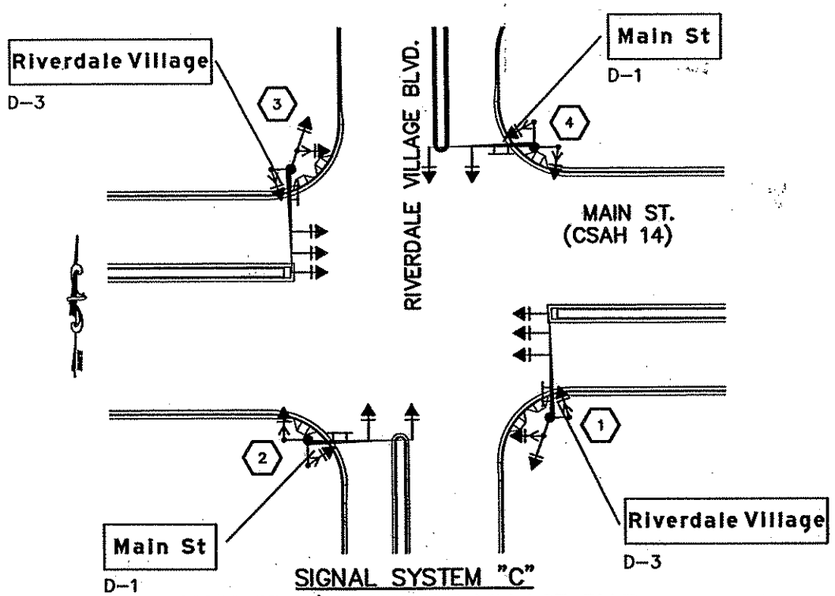
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 342 / 539

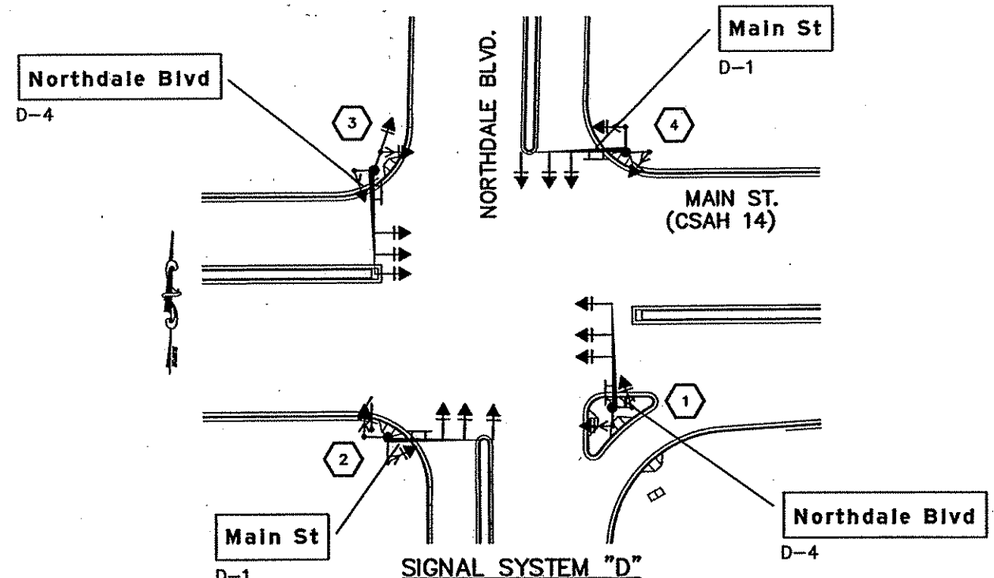
PLOT DATE: Apr 30, 2004 3:19pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNAL\As-Built\Sigdet_5.dwg



SIGNAL SYSTEM "B"
MAIN ST. / RIVER RAPIDS DRIVE



SIGNAL SYSTEM "C"
MAIN ST. / RIVERDALE VILLAGE BLVD.



SIGNAL SYSTEM "D"
MAIN ST. / NORTHDALE VILLAGE

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: DSIGNS2
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Robert J. Gruen

DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
SIGN LAYOUTS

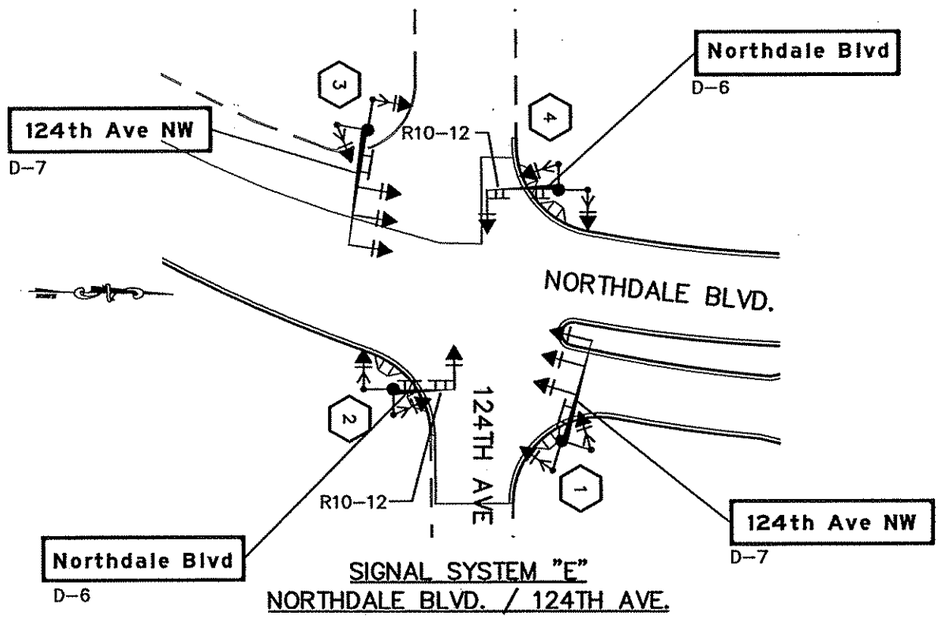
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

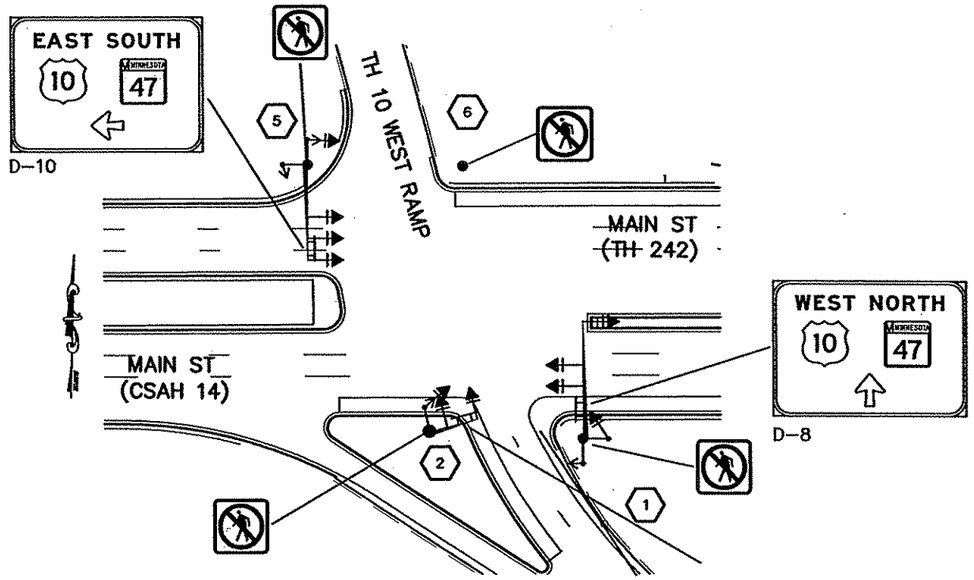
SHEET NO. 343 / 539

PLOT DATE: Apr 30, 2004 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As–Built\Dsigns2.dwg

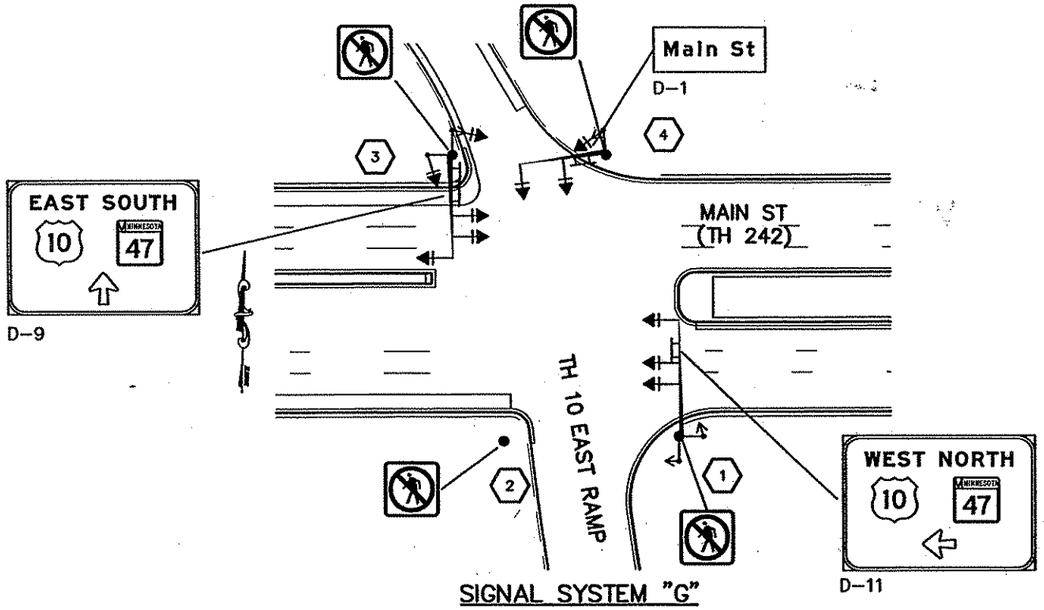
APBOX
42E--PLN
42PLNW



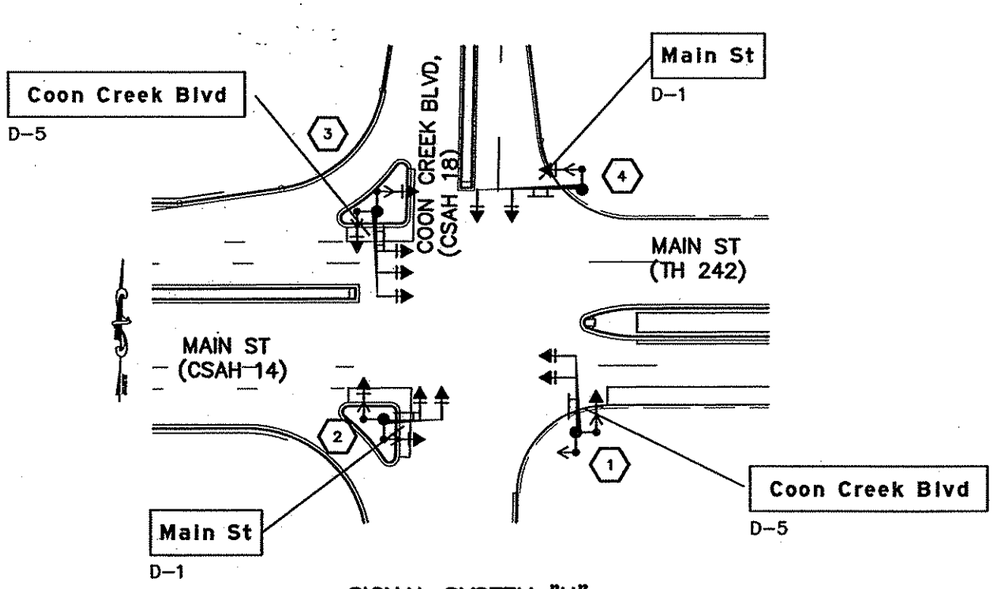
SIGNAL SYSTEM "E"
NORTHDALE BLVD. / 124TH AVE.



SIGNAL SYSTEM "F"
MAIN ST. / T.H. 10 WEST RAMP



SIGNAL SYSTEM "G"
MAIN ST. / T.H. 10 EAST RAMP



SIGNAL SYSTEM "H"
MAIN ST. / COON CREEK BLVD.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	ADDED R10-12 SIGNS TO NORTHDALE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: DSIGNS4
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
SIGN LAYOUTS

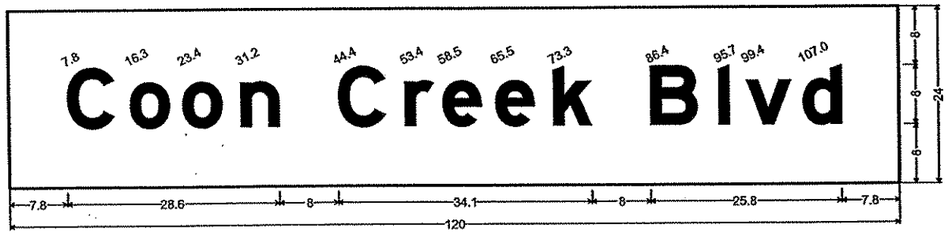
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 344 / 539

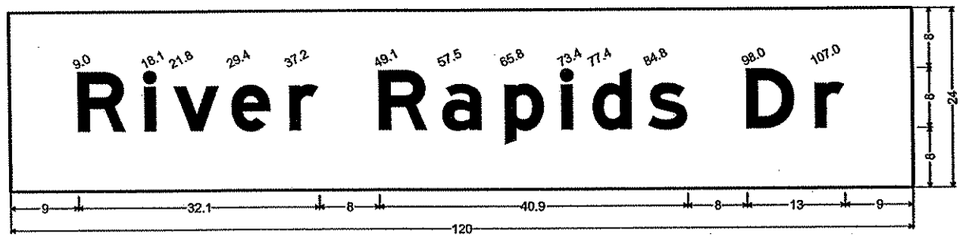
PLOT DATE: Apr 30, 2004 11:45am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Dsigns4.dwg

F DRAWINGS
SAPBOX



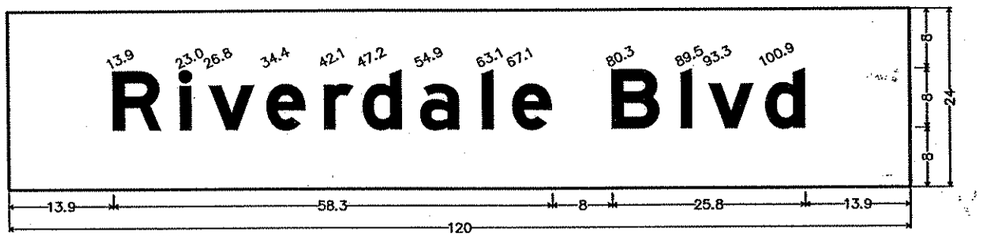
No border, White on Blue;
[Coon Creek Blvd] E Mod;

D-5



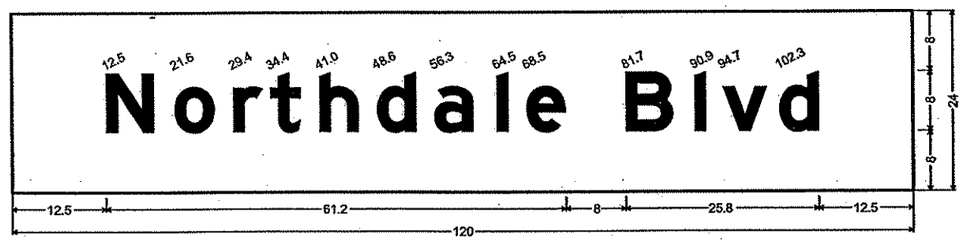
No border, White on Blue;
[River Rapids Dr] E Mod;

D-2



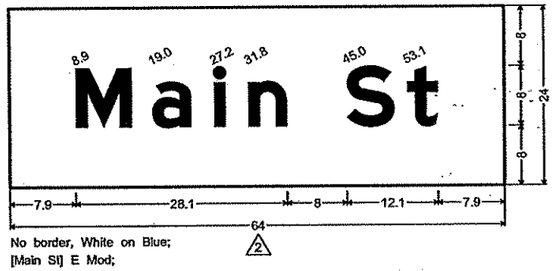
No border, White on White;
[Riverdale Blvd] Black E Mod;

D-3



No border, White on Blue;
[Northdale Blvd] E Mod;

D-4



No border, White on Blue;
[Main St] E Mod;

D-1

NOTE: ALL DIMENSIONS OF DETAILED SIGN PANELS ARE IN INCHES.

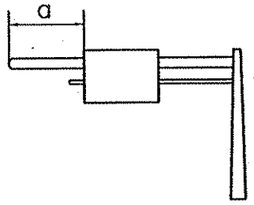
NOTES:

1) SIGNS D-1, D-2, D-3, D-4, AND D-5 SHALL BE INTERNALLY LIT. SEE SPECIAL PROVISIONS
2) INTERNALLY LIT SIGN TYPE "D" COLOR – WHITE LEGEND ON BLUE BACKGROUND, FULLY REFLECTORIZED.
3) INTERNALLY LIT SIGNS SHALL BE PAID FOR SEPARATELY AT THE UNIT PRICE EACH FOR INTERNALLY LIT SIGN TYPE "D", UNDER 2564.602.

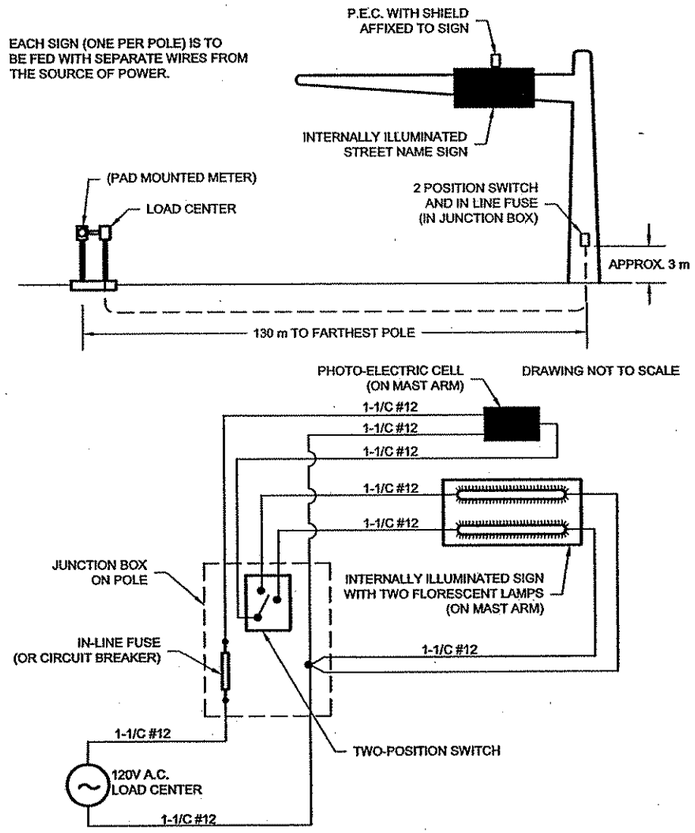
AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

TYPE "D" SIGNS – F & I

SIGN PANEL	SIZE (inches)	SIZE (meters)	NO. REQ.	NO. POSTS PER SIGN	POST SPACING (mm)	AREA (sq.m.) PER SIGN	POLE NUMBER, a (METERS) SYSTEM "B"	SYSTEM "C"	SYSTEM "D"	SYSTEM "E"	SYSTEM "F"	SYSTEM "G"	SYSTEM "H"
D–1	64x24	1.63x0.61	10	2	1375	1.03	(2)(4) 10.5	(2)(4)10.5	(2)(4)10.5		(2)1.5	(4)10.5	(2)5.1 (4)6.9
D–2	120x24	3.05x0.61	2	3	1145	1.86	(1)(3) 12						
D–3	120x24	3.05x0.61	2	3	1145	1.86		(1)(3)12					
D–4	120x24	3.05x0.61	2	3	1145	1.86			(1)13.2(3)12				
D–5	120x24	3.05x0.61	2	3	1145	1.86							(1)5.1 (3)8.7



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Internally Illuminated Street Name Sign Electrical Details

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	SAW	2/16/00	ADDEND 2 REVISE SIGN D–1 SIZE
2	JJL	5/09/00	MOD.REQ.#25: REV. RIVERDALE SIGN TEXT, VILLAGE TO BLVD
3	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: DSIGNS1
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Robert J. Brem
DATE: 12/21/99 MINN. REG. NO. 22793

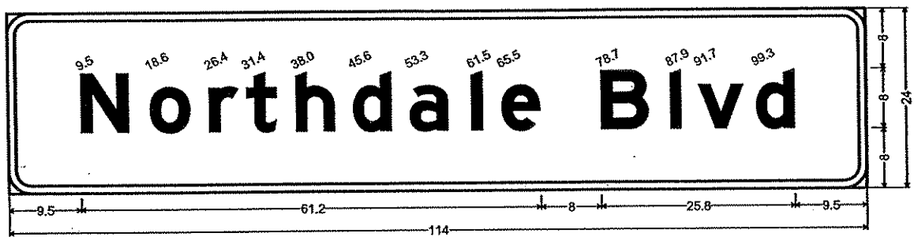
MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
INTERNALLY LIT SIGN TYPE "D" DETAILS

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)
S.A.P. 02 – 614 – 19
S.A.P. 02 – 618 – 24
S.P. 114 – 010 – 11
S.A.P. 114 – 020 – 19
S.A.P. 114 – 136 – 02
S.A.P. 114 – 127 – 02

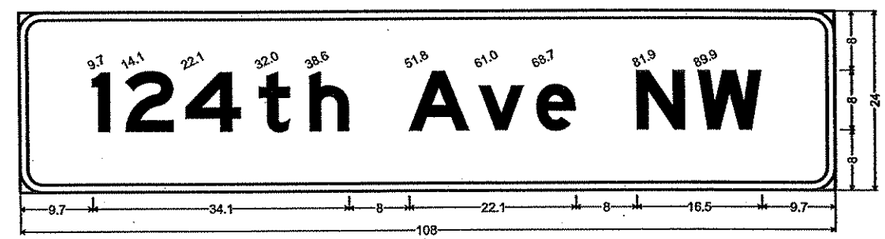
SHEET NO. 345 / 539

PLOT DATE: Apr 30, 2004 11:48am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As–Built\Dsigns1.dwg



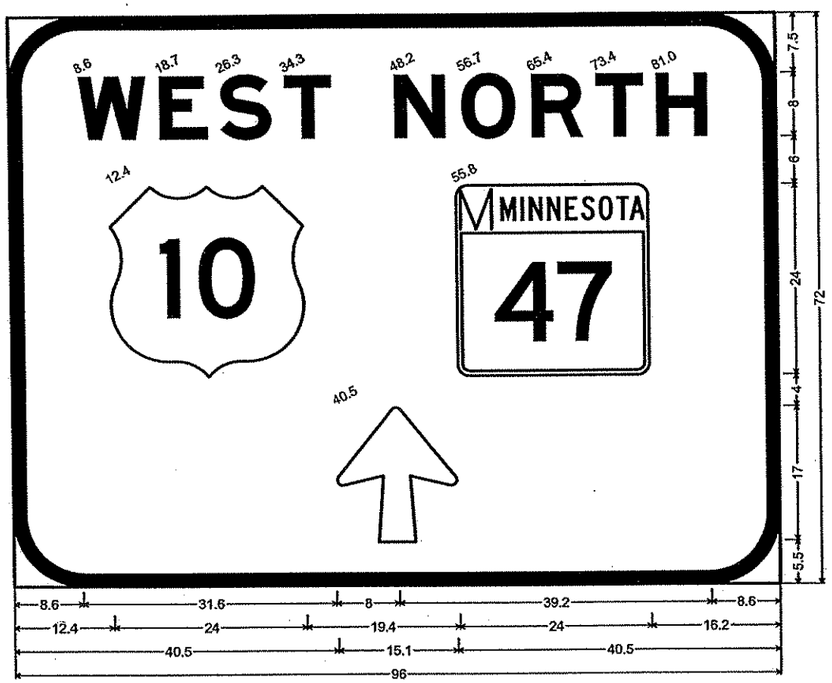
3.0" Radius, 1.0" Border, White on Green;
[Northdale Blvd] E Mod;

D-6



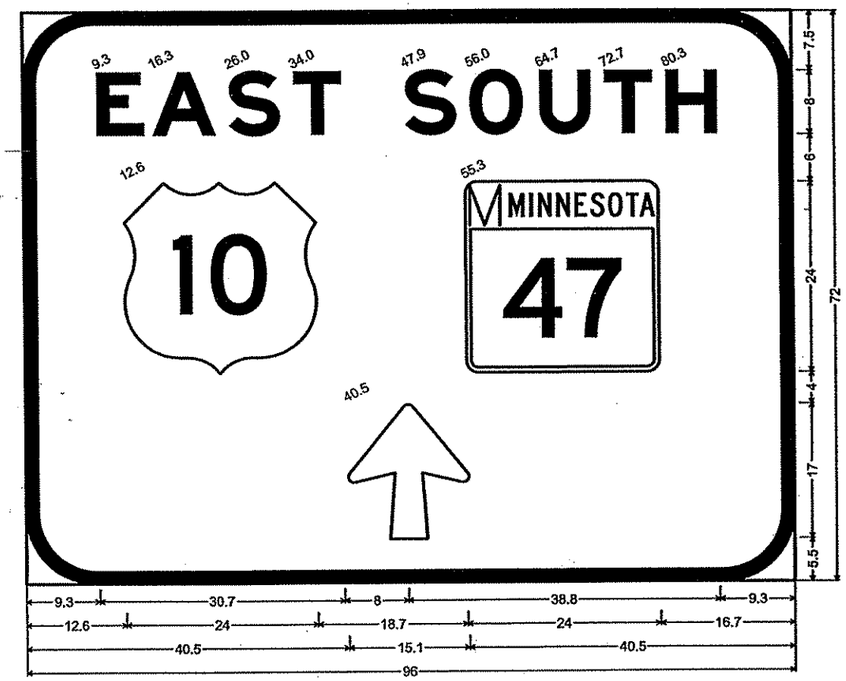
3.0" Radius, 1.0" Border, White on Green;
[124th Ave NW] E Mod;

D-7



9.0" Radius, 1.5" Border, White on Green;
[WEST] Black E Mod; [NORTH] Black E Mod; Arrow 6 - 17.0" 90°;

D-8



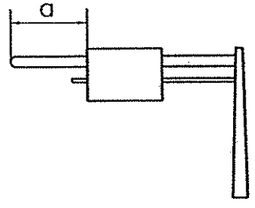
9.0" Radius, 1.5" Border, White on Green;
[EAST] Black E Mod; [SOUTH] Black E Mod; Arrow 6 - 17.0" 90°;

D-9

NOTES:

1) SIGNS D-6, D-7, D-8, D-9, D-10, D-11, AND D-12 SHALL BE STANDARD TYPE "D" SIGNS.
2) TYPE "D" SIGN COLOR-WHITE LEGEND AND BORDER ON GREEN BACKGROUND, FULLY REFLECTORIZED. (D-8,D-9, D-10 & D-11) D-6 AND D-7 WHITE LEGEND AND BORDER ON BLUE BACKGROUND, FULLY REFLECTORIZED.
3) CORNERS EXTENDING BEYOND THE BORDER SHALL NOT BE TRIMMED.
4) SEE STANDARD SIGNS MANUAL FOR ARROW AND OVERLAY DETAILS.
5) FOR STRUCTURAL DETAILS, TYPE "D" SIGNS, SEE DETAILS AND STANDARD SIGNS MANUAL.
6) FOR TYPE "D" STRINGER AND PANEL-JOINT DETAIL, SEE STANDARD SIGNS MANUAL.
7) FURNISHING AND INSTALLING TYPE "D" SIGNS, SHALL BE INCIDENTAL TO THE INDIVIDUAL SIGNAL SYSTEMS. SEE SPECIAL PROVISIONS.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



TYPE "D" SIGNS - F & I

SIGN PANEL	SIZE (inches)	SIZE (meters)	NO. REQ.	NO. POSTS PER SIGN	POST SPACING (mm)	AREA (sq.m.) PER SIGN	POLE NUMBER, a (METERS)						
							SYSTEM "B"	SYSTEM "C"	SYSTEM "D"	SYSTEM "E"	SYSTEM "F"	SYSTEM "G"	SYSTEM "H"
D-6	114x24	2.90x0.61	2	3	965	1.77				(2) (4) 4			
D-7	108x24	2.74x0.61	2	3	916	1.67				(1) 9 (3) 9.5			
D-8	96x72	2.44x1.83	1	3	1145	4.47					(1) 8.7		
D-9	96x72	2.44x1.83	1	3	1145	4.47						(3) 8.7	
D-10	96x72	2.44x1.83	1	3	1145	4.47					(5) 0.3		
D-11	96x72	2.44x1.83	1	3	1145	4.47						(1) 0.3	

NOTE: ALL DIMENSIONS OF DETAILED SIGN PANELS ARE IN INCHES.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/6/2000	ADD CALLOUT OF D-8 & D-9 SIGNS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: DSIGNS3
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
TYPE "D" SIGN DETAILS

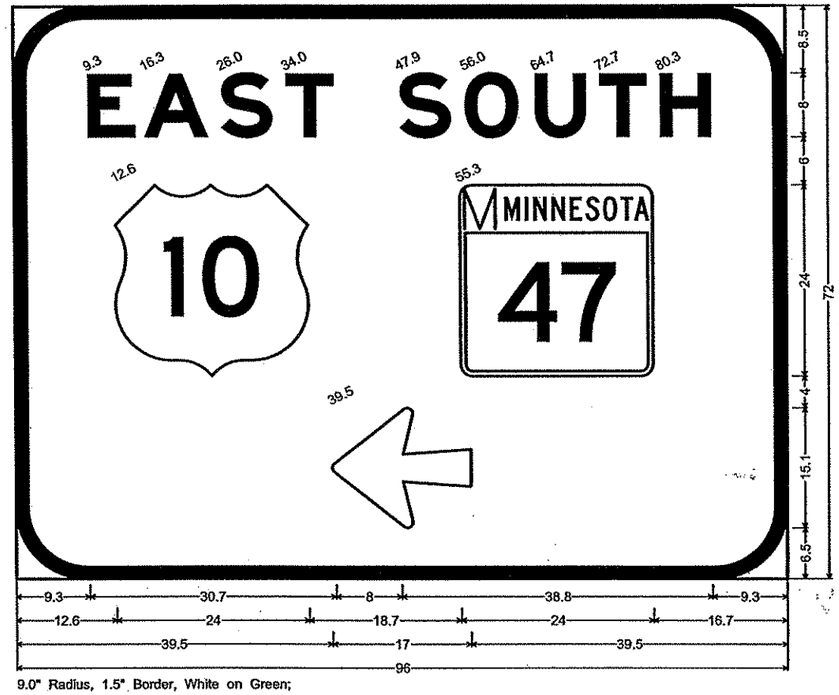
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 346 / 539

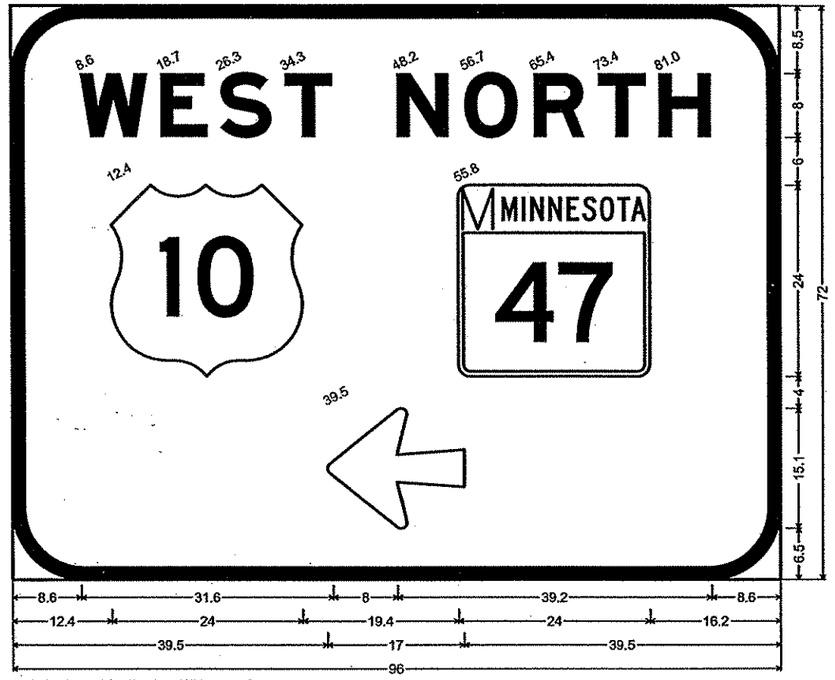
PLOT DATE: Apr 30, 2004 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Dsigns3.dwg

SAPBOX



9.0" Radius, 1.5" Border, White on Green;
[EAST] Black E Mod; [SOUTH] Black E Mod; Arrow 6 - 17.0" 180°;

D-10



9.0" Radius, 1.5" Border, White on Green;
[WEST] Black E Mod; [NORTH] Black E Mod; Arrow 6 - 17.0" 180°;

D-11

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTE: ALL DIMENSIONS OF DETAILED SIGN PANELS ARE IN INCHES.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: DSIGNS5
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.15.

Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
TYPE "D" SIGN DETAILS

CITY PROJECT 98-20

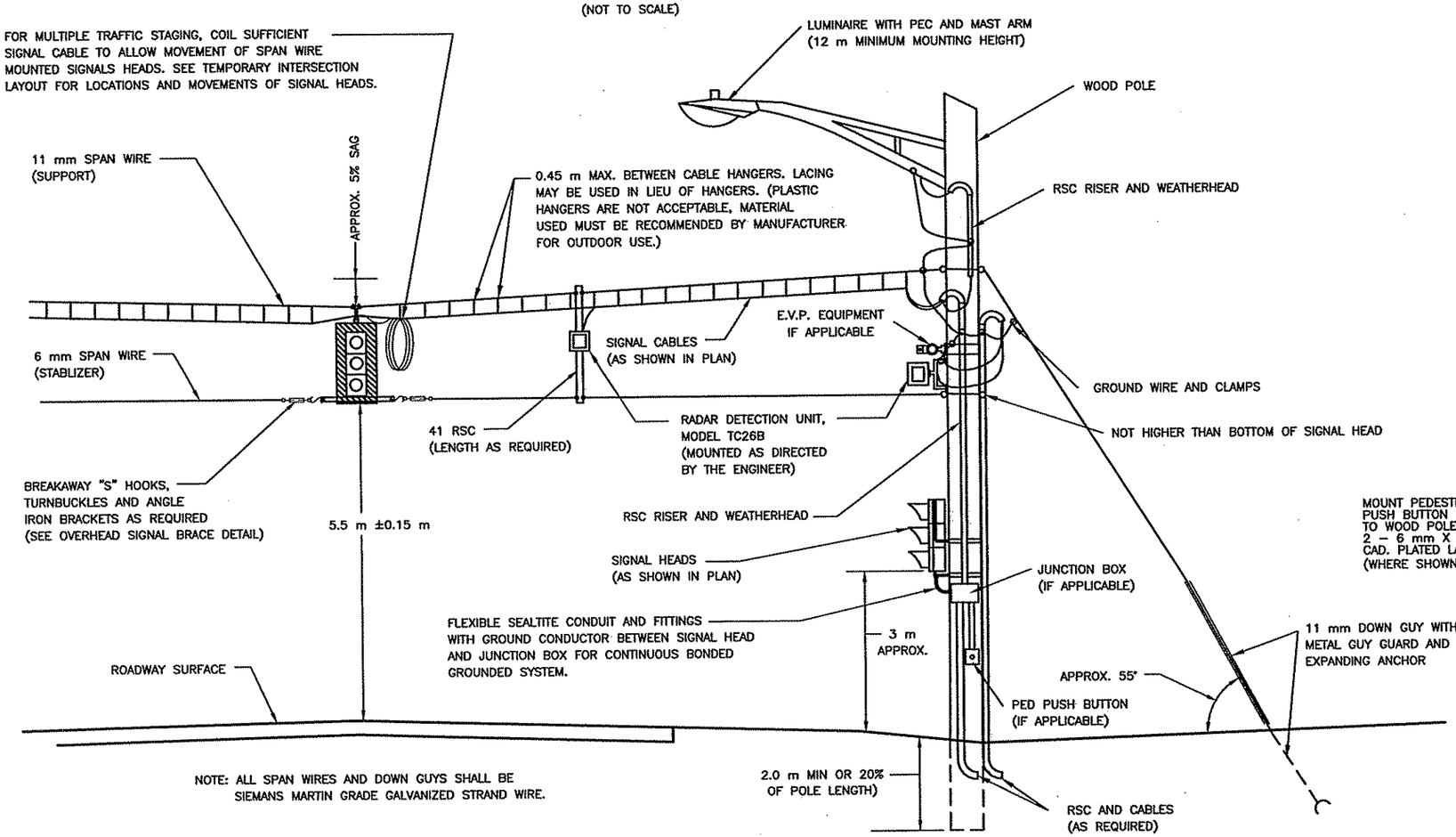
S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 347 / 539

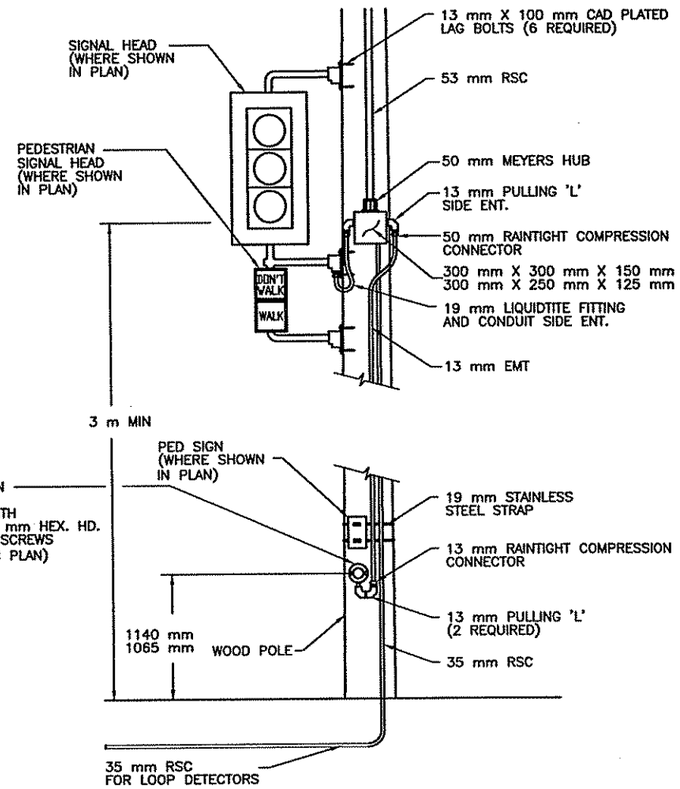
PLOT DATE: Apr 30, 2004 11:47am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNAL\Main\As-Built\Dsigns5.dwg

TYPICAL WOOD POLE AND SPAN WIRE MOUNTED TRAFFIC SIGNALS

(NOT TO SCALE)

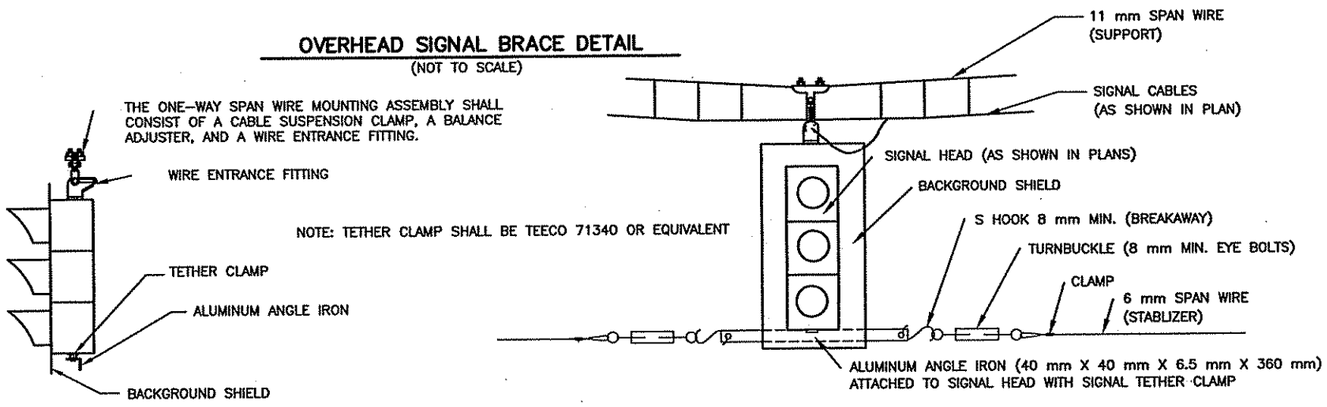


NOTE: ALL SPAN WIRES AND DOWN GUYS SHALL BE SIEMANS MARTIN GRADE GALVANIZED STRAND WIRE.



OVERHEAD SIGNAL BRACE DETAIL

(NOT TO SCALE)



NOTES:

1) 7.5 m CLEARANCE IS REQUIRED ON ALL MOVING ROUTES.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: SIGDET
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
SIGNAL DETAILS

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 348 / 539

PLOT DATE: Apr 24 04 11:48am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\ .dwg

F DRAWINGS

HETO
OX
LNW
SIG

LOOP DETECTORS

NUMBER	SIZE (m)	LOCATION (m)	FUNCTION	STATUS	STAGING
D1–1, D1–2	4–1.7 X 1.7	AS SHOWN	1	INPLACE	INACTIVE
D2–1	3–1.7 X 1.7	101	1	INPLACE	
D3–1	4–1.7 X 1.7	AS SHOWN	1	INPLACE	
D4–1	3–1.7 X 1.7	101	1	INPLACE	
D5–1, D5–2	4–1.7 X 1.7	AS SHOWN	1	INPLACE	
D6–1	2–1.7 X 1.7	101	1	INPLACE	INACTIVE
D7–1	4–1.7 X 1.7	AS SHOWN	1	INPLACE	INACTIVE
D7–2	4–1.7 X 1.7	AS SHOWN	1	INPLACE	
D8–1	2–1.7 X 1.7	101	1	INPLACE	

MICROWAVE DETECTORS MN/DOT FURNISHED)

NUMBER	FUNCTION	STATUS
M1–1	1	INSTALL

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

DETECTOR FUNCTIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – DELAY CALL, IMMEDIATE EXTEND
(8) – STRETCH

(1) INPLACE: TYPE A100–A–16.8–D12.2–2.7(DAVIT AT 350°)
TYPE A100 POLE FOUNDATION
SPECIAL LUMINAIRE – 250 W HPS
4–ONE WAY SIGNALS OVERHEAD
TYPE 10B POLE MOUNTED AT 270°

EXTEND INTO HH 8:
INPLACE: 78 mm RSC
2–12/C#12
2–1/C#10

(2) INPLACE: 3 m PEDESTAL POLE AND BASE
PEDESTAL FOUNDATION
2 – PEDESTRIAN PUSH BUTTONS AND SIGNS
TYPE 2B PEDESTAL MOUNTED

EXTEND INTO HH 9:
78 mm RSC
1–12/C#12
1–3/C#12

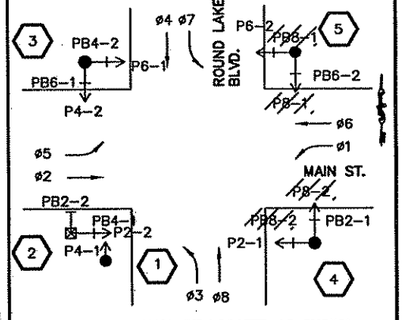
(3) INPLACE: TYPE A100–A–15.2–D12.2–2.7 (DAVIT AT 350°)
TYPE A100 POLE FOUNDATION
SPECIAL LUMINAIRE – 250W HPS
2 – PEDESTRIAN PUSHBUTTONS AND SIGNS
4–ONE WAY SIGNALS OVERHEAD
TYPE 10A POLE MOUNTED AT 180°
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°

EXTEND INTO HH 18:
INPLACE: 78 mm RSC
3–12/C#12
2–1/C#10
1–3/C#12

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE WITH PHASES 1, 3, 5 & 7 BEING PROTECTED LEFT TURN PHASES. IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM RECALL.

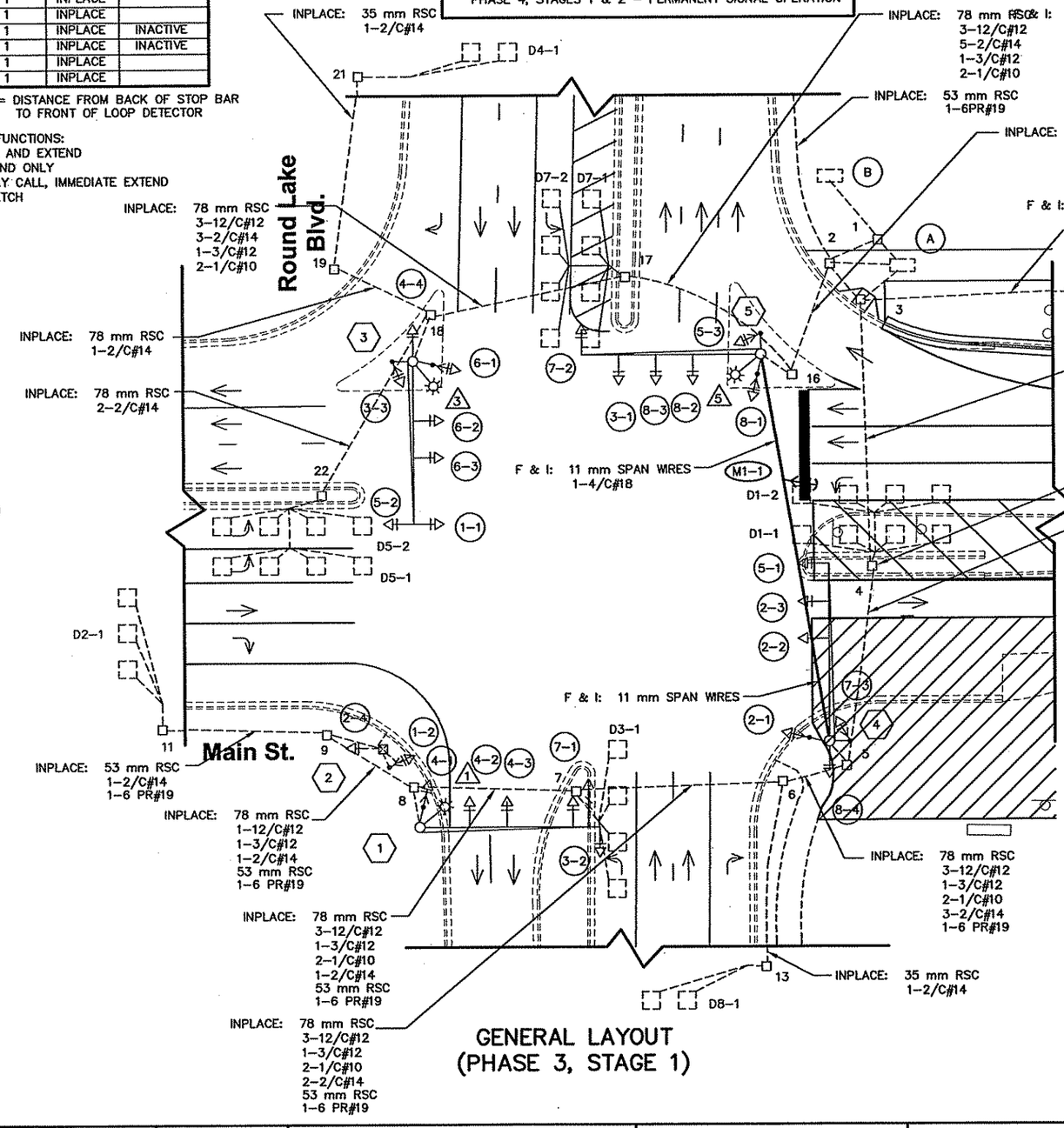
CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

TEMPORARY TRAFFIC SIGNAL SYSTEM "A" STAGING PLAN

PHASE 1, STAGE 1 – EXISTING SIGNAL OPERATION
PHASE 2, STAGE 1 – EXISTING SIGNAL OPERATION
PHASE 3, STAGES 1 & 2 – TEMPORARY SIGNAL SYSTEM (SEE PLAN THIS SHEET)
PHASE 4, STAGES 1 & 2 – PERMANENT SIGNAL OPERATION



GENERAL LAYOUT
(PHASE 3, STAGE 1)

(4) INPLACE: TYPE A100–A–16.8
TYPE A100 POLE FOUNDATION
2 – PEDESTRIAN PUSHBUTTONS AND SIGNS
(COVER PHASE 8 PEDESTRIAN PUSHBUTTON & SIGN)
3 – ONE WAY SIGNALS OVERHEAD
TYPE 10A POLE MOUNTED AT 180°
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 5

EXTEND INTO HH 5:
INPLACE: 78 mm RSC
3–12/C#12
4–1/C#10
1–3/C#12

(5) INPLACE: TYPE A100–A–16.8
TYPE A100 POLE FOUNDATION
SPECIAL LUMINAIRE – 250W HPS
2 – PEDESTRIAN PUSHBUTTONS AND SIGNS
(COVER PHASE 8 PEDESTRIAN PUSHBUTTON & SIGN)
4 – ONE WAY SIGNALS OVERHEAD
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
F & I: "DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 4

EXTEND INTO HH 16:
INPLACE: 78 mm RSC
3–12/C#12
4–1/C#10
1–3/C#12
F & I: 1–4/C#18

(A) INPLACE: CONTROLLER AND CABINET
CABINET FOUNDATION

EXTEND INTO HH 1:
METERED SIGNAL SERVICE
INPLACE: 35 mm RSC
3–1/C#6

EXTEND INTO HH 2:
INPLACE: 103 mm RSC
6–12/C#12
5–2/C#14
2–3/C#12
1–6 PR#19
F & I: 1–4/C#18

EXTEND INTO HH 3:
INPLACE: 103 mm RSC
6–12/C#12
6–2/C#14
2–3/C#12
1–6 PR#19

(B) INPLACE: SERVICE CABINET
CABINET FOUNDATION
INPLACE: 53 mm RSC TO SERVICE

EXTEND INTO HH 1:
METERED SIGNAL SERVICE
INPLACE: 35 mm RSC
3–1/C#6
UNMETERED LIGHTING SERVICE
INPLACE: 35 mm RSC
4–1/C#10

BETWEEN HH 1 AND HH 2:
INPLACE: 53 mm RSC
4–1/C#10

BETWEEN HH 2 AND HH 3:
INPLACE: 53 mm RSC
2–1/C#10

INPLACE: 103 mm RSC 6–12/C#12 2–3/C#12 2–1/C#10 5–2/C#14 53 mm RSC 1–6 PR#19

PLATE AND COVER HANDHOLE DURING CONSTRUCTION OPERATIONS

INPLACE: 103 mm RSC 6–12/C#12 2–3/C#12 2–1/C#10 3–2/C#14 53 mm RSC 1–6 PR#19

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

SIGNAL FACE	R	Y	G	R	Y	G	STATUS
1–1, 1–2				←	←	←	INPLACE
2–1, 2–2, 2–3, 2–4	●	●	●				INPLACE
3–1, 3–2, 3–3				←	←	←	INPLACE
4–1, 4–2, 4–3, 4–4	●	●	●				INPLACE
5–1				←	←	←	INPLACE
5–2, 5–3				←	←	←	INPLACE
6–1, 6–2, 6–3	●	●	●				INPLACE
7–1, 7–2, 7–3				◄	←	←	INPLACE
8–1, 8–2, 8–3, 8–4	●	●	●				INPLACE

NOTES:

1.) SEE SPECIAL PROVISIONS FOR MN/DOT AND ANOKA COUNTY FURNISHED MATERIALS.

2.) THE CONTRACTOR SHALL MODIFY EXISTING TRAFFIC SIGNAL SYSTEM TO ACCOMODATE CONSTRUCTION STAGING AS DIRECTED BY THE ENGINEER. THIS WORK MAY INCLUDE, BUT IS NOT LIMITED TO, RELOCATING SIGNAL HEADS ON THE EXISTING MAST ARMS AND BAGGING OR REMOVING UNUSED SIGNAL HEADS.

3.) PHASE 8 PEDESTRIAN INDICATIONS, AND PHASE 8 PUSHBUTTONS SHALL BE COVERED.

4.) SPAN WIRES SHALL BE ATTACHED TO MAST ARMS BELOW LUMINAIRE EXTENSION ARMS.

SCALE IN METERS
0 5 10

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/7/2000	REVISED NOTES
2	JRN	1/7/2000	REMOVED FURNISHED AND INSTALLED WOOD POLES AND SIGNAL HEADS.
3	JRN	1/7/2000	COVER PHASE 8 PUSHBUTTONS

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: RLBTEMP
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
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DATE: 12/21/99 MINN. REG. NO. 26781

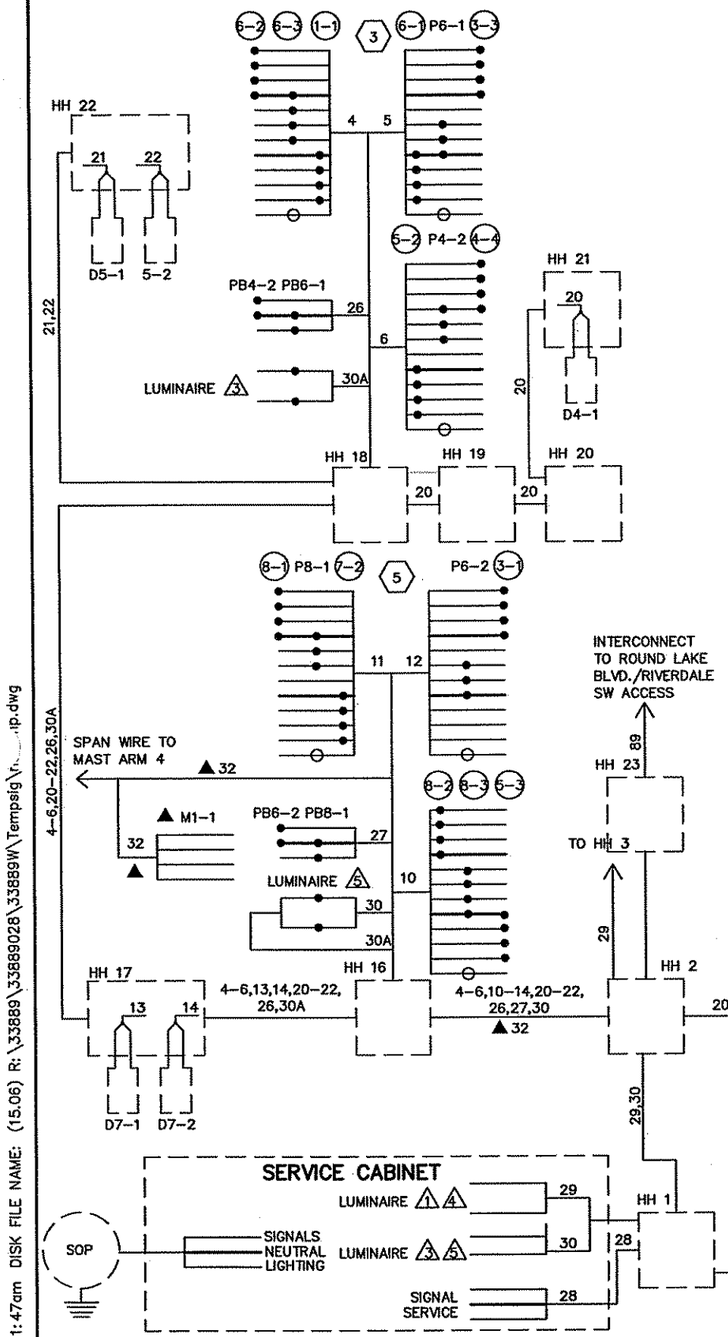
MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "A"
MAIN ST. (CSAH 14) / ROUND LAKE BLVD.
GENERAL LAYOUT

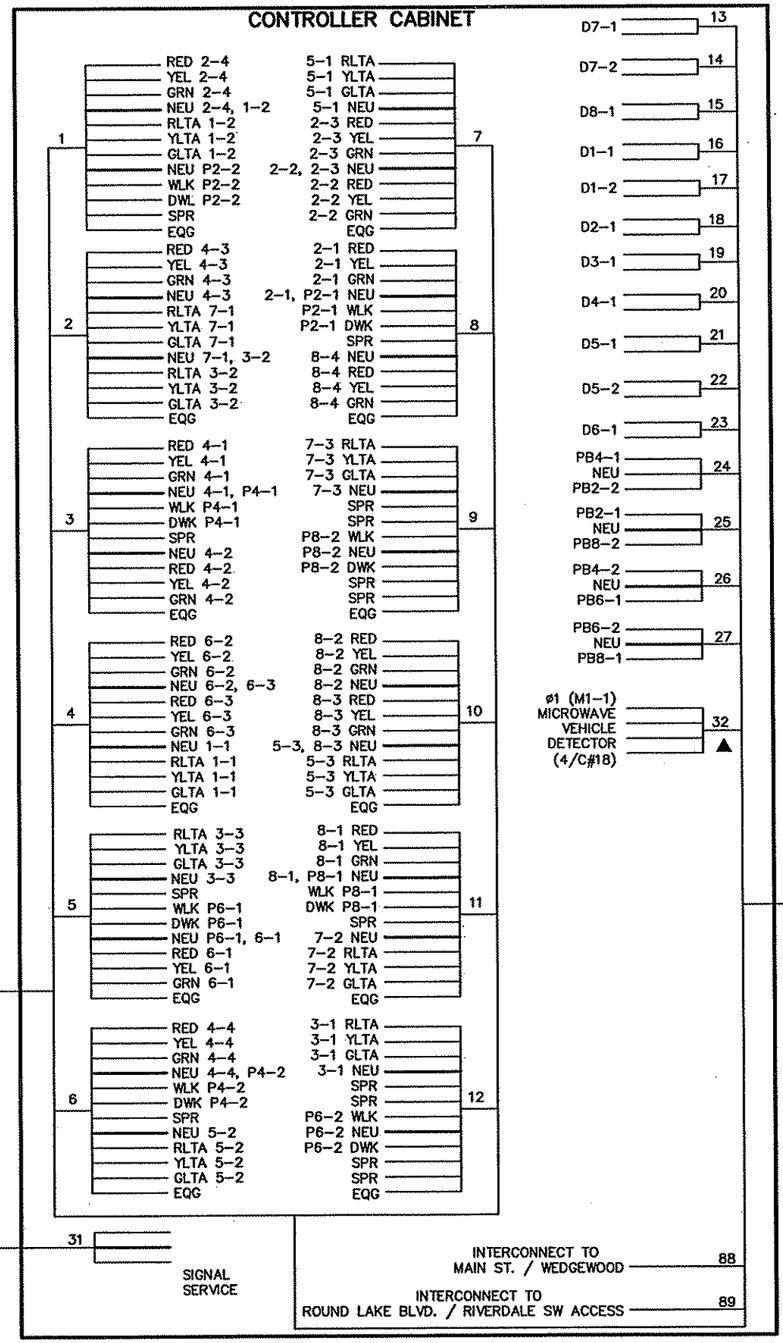
CITY PROJECT 98–20

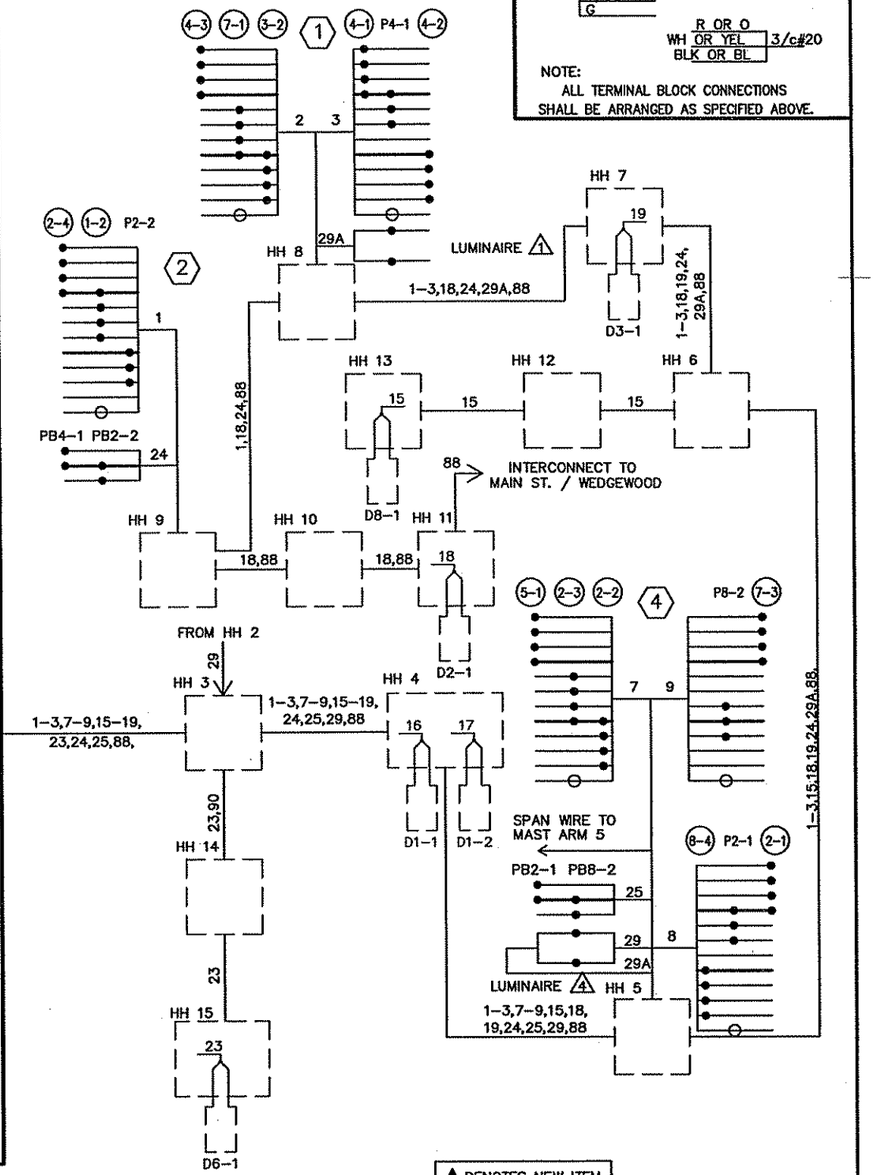
S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 349 / 539

PLOT DATE: Apr 24, /4 11:47am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\ p.dwg







CONDUCTOR COLOR CODING

12/c#12	R, O, BL, WH, R/BLK, O/BLK, BL/BLK, WH/BLK, BLK, BLK/WH, G/BLK, G	BLK, WH — 2-1/c#6
		R, WH, BLK — 3/c#12
		BLK, CLEAR — 2/c#14
		R OR O, WH OR YEL, BLK OR BL — 3/c#20

NOTE:
ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

▲ DENOTES NEW ITEM.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/7/2000	REMOVED FURNISHED AND INSTALLED WOOD POLES AND SIGNAL FACES.

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: RLBTEMP
DATE: DECEMBER 21, 1999

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "A"
MAIN ST. (CSAH 14) / ROUND LAKE BLVD.
FIELD WIRING DIAGRAM

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 350 / 539

PLOT DATE: Apr 22, ...04 11:47am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Temp\sig\r...ip.dwg

F DRAWINGS

SIG
PRD
ESUM
_NW
AL.IW

(1) INPLACE: 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH PEC AND CHECK SWITCH

METAL JUNCTION BOX #1
35 mm RSC BELOW J.B. #1 TO HH 3
REMOVE: 4–2/C#14

53 mm RISER AND WEATHERHEAD ABOVE J.B. #1
REMOVE: 4–2/C#14

2–78 mm RSC RISERS AND WEATHERHEADS TO HH 1
INPLACE: 9–12/C#12
2–3/C#12
2–3/C#12 (LUM)
REMOVE: 8–2/C#14
3–2/C#12 UF
F & I: 4–4/C#18

27 mm RSC RISER AND WEATHERHEAD ABOVE SPAN WIRE
INPLACE: 1–3/C#12 (LUM)

(2) INPLACE: 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR

METAL JUNCTION BOX #2
35 mm RSC BELOW J.B. #2 TO HH 4
REMOVE: 1–2/C#14
1–2/C#12 UF

53 mm RISER AND WEATHERHEAD ABOVE J.B. #2
REMOVE: 1–2/C#14
1–2/C#12 UF

(3) INPLACE: 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH PEC AND CHECK SWITCH

METAL JUNCTION BOX #3
35 mm RSC BELOW J.B. #3 TO HH 6
REMOVE: 3–2/C#14
1–2/C#12 UF

53 mm RISER AND WEATHERHEAD ABOVE J.B. #3
REMOVE: 3–2/C#14
1–2/C#12 UF

27 mm RSC RISER AND WEATHERHEAD ABOVE SPAN WIRE
INPLACE: 1–3/C#12 (LUM)

(4) INPLACE: 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR

METAL JUNCTION BOX #4
35 mm RSC BELOW J.B. #4 TO HH 8
REMOVE: 1–2/C#12 UF

53 mm RISER AND WEATHERHEAD ABOVE J.B. #4
REMOVE: 1–2/C#12 UF

(5) RELOCATE: PEDESTAL FOUNDATION
PEDESTAL POLE & BASE
TYPE 1D PEDESTAL MOUNTED
PEDESTRIAN PUSHBUTTON

AERIAL CONNECTION TO SPAN WIRE:
1–12/C#12
1–3/C#12

(6) RELOCATE: PEDESTAL FOUNDATION
PEDESTAL POLE & BASE
TYPE 1C PEDESTAL MOUNTED
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 7

AERIAL CONNECTION TO SPAN WIRE:
1–12/C#12

(7) RELOCATE: PEDESTAL FOUNDATION
PEDESTAL POLE & BASE
TYPE 1C PEDESTAL MOUNTED
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 6

AERIAL CONNECTION TO SPAN WIRE:
1–12/C#12

(8) RELOCATE: PEDESTAL FOUNDATION
PEDESTAL POLE & BASE
TYPE 1D PEDESTAL MOUNTED
PEDESTRIAN PUSHBUTTON

AERIAL CONNECTION TO SPAN WIRE:
1–12/C#12
1–3/C#12

(9) RELOCATE WOOD POLE

(10) RELOCATE WOOD POLE

TEMPORARY TRAFFIC SIGNAL SYSTEM "C" STAGING PLAN

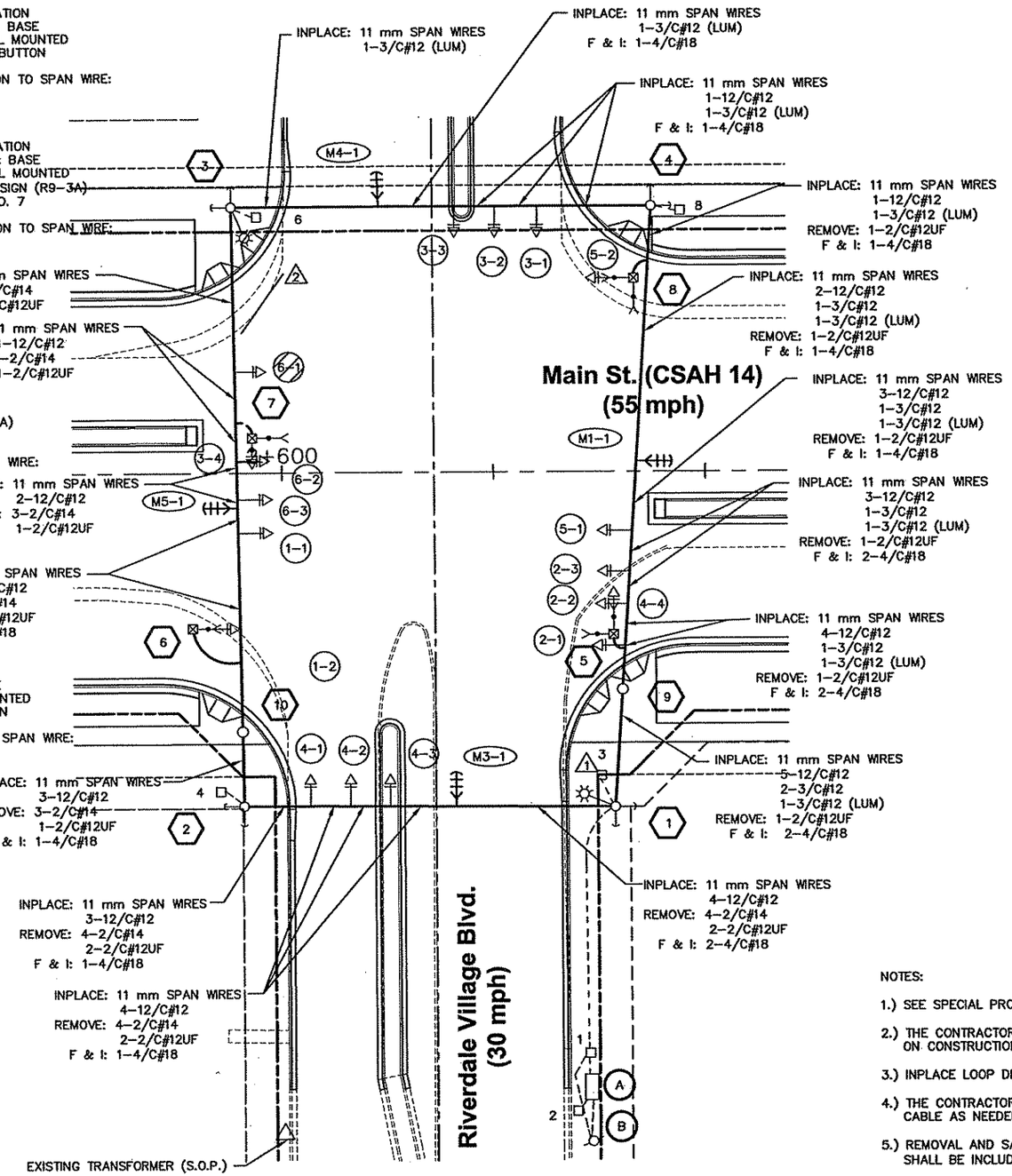
PHASE 1, STAGE 1 – EXISTING SIGNAL OPERATION

PHASE 2, STAGE 1 – TEMPORARY SIGNAL SYSTEM (SEE PHASE 2 PLAN)

PHASE 3, STAGE 1 – TEMPORARY SIGNAL SYSTEM (SEE PHASE 3 PLAN)

PHASE 3, STAGE 1 – TEMPORARY SIGNAL SYSTEM (SUBSTAGE A) (SEE PHASE 3, SUBSTAGE A PLAN)

PHASE 4, STAGES 1 & 2 – PERMANENT SIGNAL OPERATION



GENERAL LAYOUT

INPLACE SIGNAL FACES							
STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1–1, 1–2				←	←	←
BAG OR REMOVE	2–1	●	●	●			
	2–2, 2–3	●	●	●			
	3–1, 3–2	●	●	●			
	3–3, 3–4				←	←	←
	4–1, 4–2	●	●	●			
	4–3, 4–4				←	←	←
	5–1, 5–2				←	←	←
BAG OR REMOVE	6–1	●	●	●			
	6–2, 6–3	●	●	●			

MICROWAVE DETECTORS (MN/DOT FURNISHED)		
NUMBER	FUNCTION	STATUS
M1–1	1	INSTALL
M3–1	1	INSTALL
M4–1	1	INSTALL
M5–1	1	INSTALL

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

DETECTOR FUNCTIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – DELAY CALL, IMMEDIATE EXTEND
(8) – STRETCH

(A) INPLACE: CABINET FOUNDATION
CONTROLLER AND CABINET

TO HH 1:
INPLACE: 2–78 mm RSC
9–12/C#12
2–3/C#3
REMOVE: 8–2/C#14
3–2/C#12 UF
F & I: 4–4/C#18

TO HH 2:
INPLACE: 53 mm RSC
REMOVE: 1–2/C#14

TO SERVICE EQUIPMENT
INPLACE: 27 mm RSC
3–1/C#6

(B) INPLACE: SERVICE EQUIPMENT
(METER SOCKET AND DISCONNECT SWITCH)
4.5 m WOOD POLE

53 mm RSC BELOW SERVICE EQUIPMENT FOR SERVICE

27 mm RSC BELOW SERVICE EQUIPMENT TO CONTROLLER AND CABINET
INPLACE: 3–1/C#6

27 mm RSC BELOW SERVICE EQUIPMENT TO HH 1
INPLACE: 2–3/C#12 (LUM)

NOTES:

1.) SEE SPECIAL PROVISIONS FOR MN/DOT FURNISHED MATERIALS.

2.) THE CONTRACTOR SHALL RELOCATE VEHICLE HEADS AS SHOWN ON CONSTRUCTION STAGING SHEETS.

3.) INPLACE LOOP DETECTORS SHALL BE INACTIVE.

4.) THE CONTRACTOR SHALL REMOVE UNUSED SIGNAL EQUIPMENT AND CABLE AS NEEDED.

5.) REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "C".

6.) THE CONTRACTOR SHALL MODIFY FIELD CABINET WIRING TO ACCOMODATE SPLIT PHASING ON RIVERDALE VILLAGE BLVD.

7.) 6 mm STABALIZER WIRE SHALL BE INSTALLED BETWEEN EACH WOOD POLE.

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 2–TEMP1
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL.)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "C"
MAIN ST. (CSAH 14) / RIVERDALE VILLAGE BLVD.
GENERAL LAYOUT

CITY PROJECT 98–20

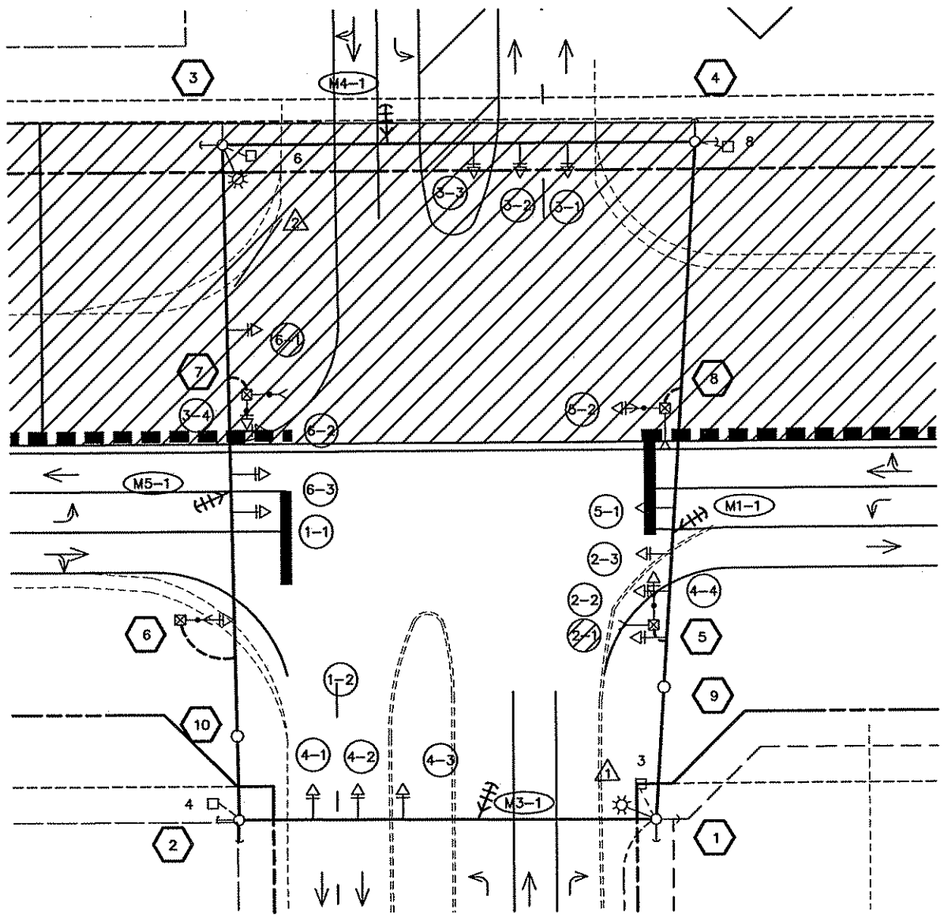
S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 351 / 539

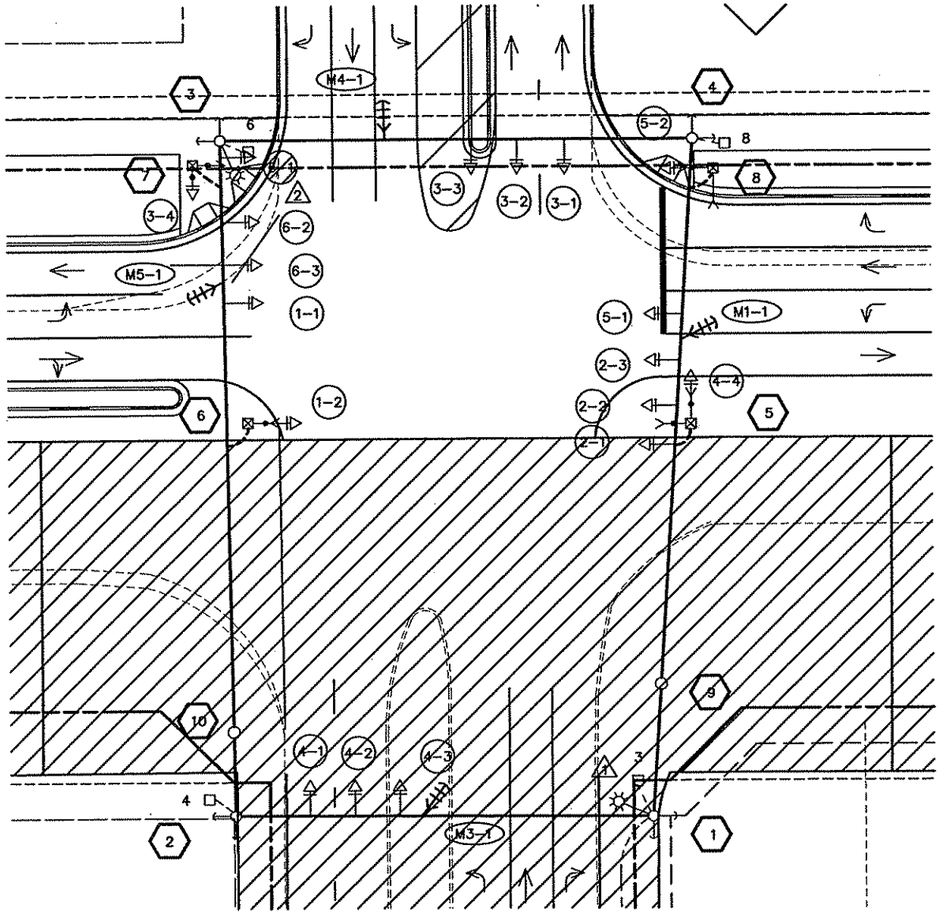
PLOT DATE: Apr 22, _04 11:43am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig_ _np1.dwg

EF DRAWNGS

-PRD
3OX
PLNW
P31
P3S1
P1
1F
PS16



PHASE 2 LAYOUT

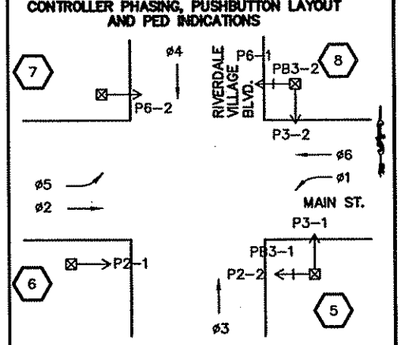


PHASE 3 LAYOUT

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

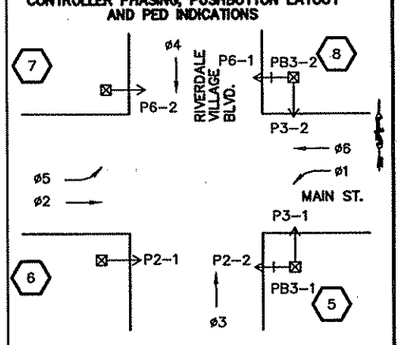
SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1-1, 1-2				←	←	←
BAG OR REMOVE	2-1	●	●	●			
	2-2, 2-3	●	●	●			
	3-1, 3-2	●	●	●			
	3-3, 3-4				←	←	←
	4-1, 4-2	●	●	●			
	4-3, 4-4				←	←	←
	5-1, 5-2				←	←	←
BAG OR REMOVE	6-1	●	●	●			
	6-2, 6-3	●	●	●			

0 5 10
SCALE IN METERS

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1-1, 1-2				←	←	←
BAG OR REMOVE	2-1	●	●	●			
	2-2, 2-3	●	●	●			
	3-1, 3-2	●	●	●			
	3-3, 3-4				←	←	←
	4-1, 4-2	●	●	●			
	4-3, 4-4				←	←	←
	5-1, 5-2				←	←	←
BAG OR REMOVE	6-1	●	●	●			
	6-2, 6-3	●	●	●			

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: RVBTEMP
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "C"
MAIN ST. (CSAH 14) / RIVERDALE VILLAGE BLVD.
SIGNAL STAGING LAYOUT

CITY PROJECT 98-20

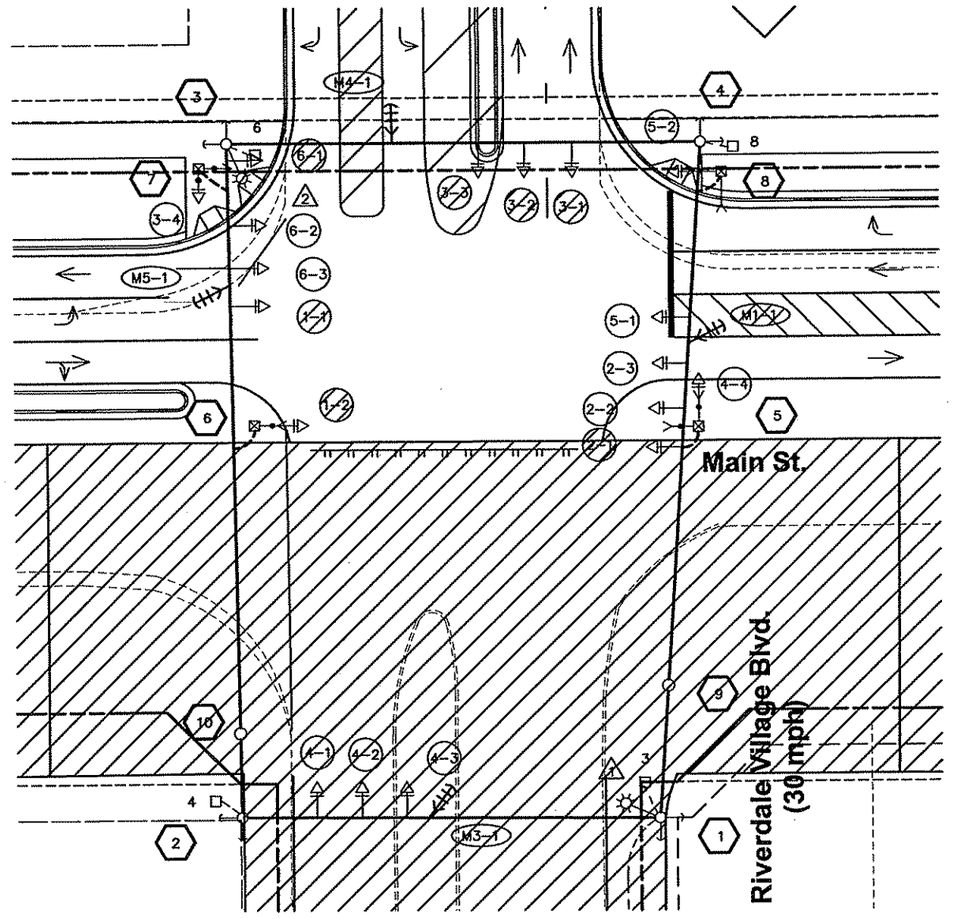
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO. 352 / 539

PLOT DATE: Apr 22, 2004 11:48am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\RVBtemp.dwg

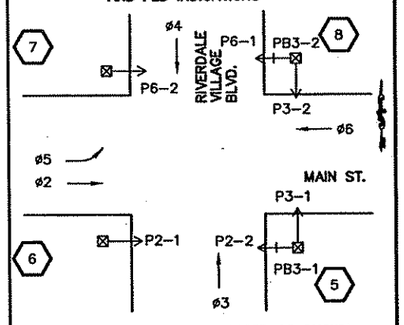
OF DRAWINGS

-PRD
30X
LNW
31
3S1
22
IP
S1



PHASE 3, STAGE 1
SUBSTAGE A
LAYOUT

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 5 PHASE WITH PHASE 5 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
BAG	1-1, 1-2				←	←	←
BAG OR REMOVE	2-1	●	●	●			
	2-2, 2-3	●	●	●			
BAG	3-1, 3-2	●	●	●			
BAG	3-3, 3-4				←	←	←
	4-1, 4-2	●	●	●			
	4-3, 4-4				←	←	←
	5-1, 5-2				←	←	←
BAG OR REMOVE	6-1	●	●	●			
	6-2, 6-3	●	●	●			

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: RVBTEMP
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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DATE: 12/21/99 MINN. REG. NO. 26781

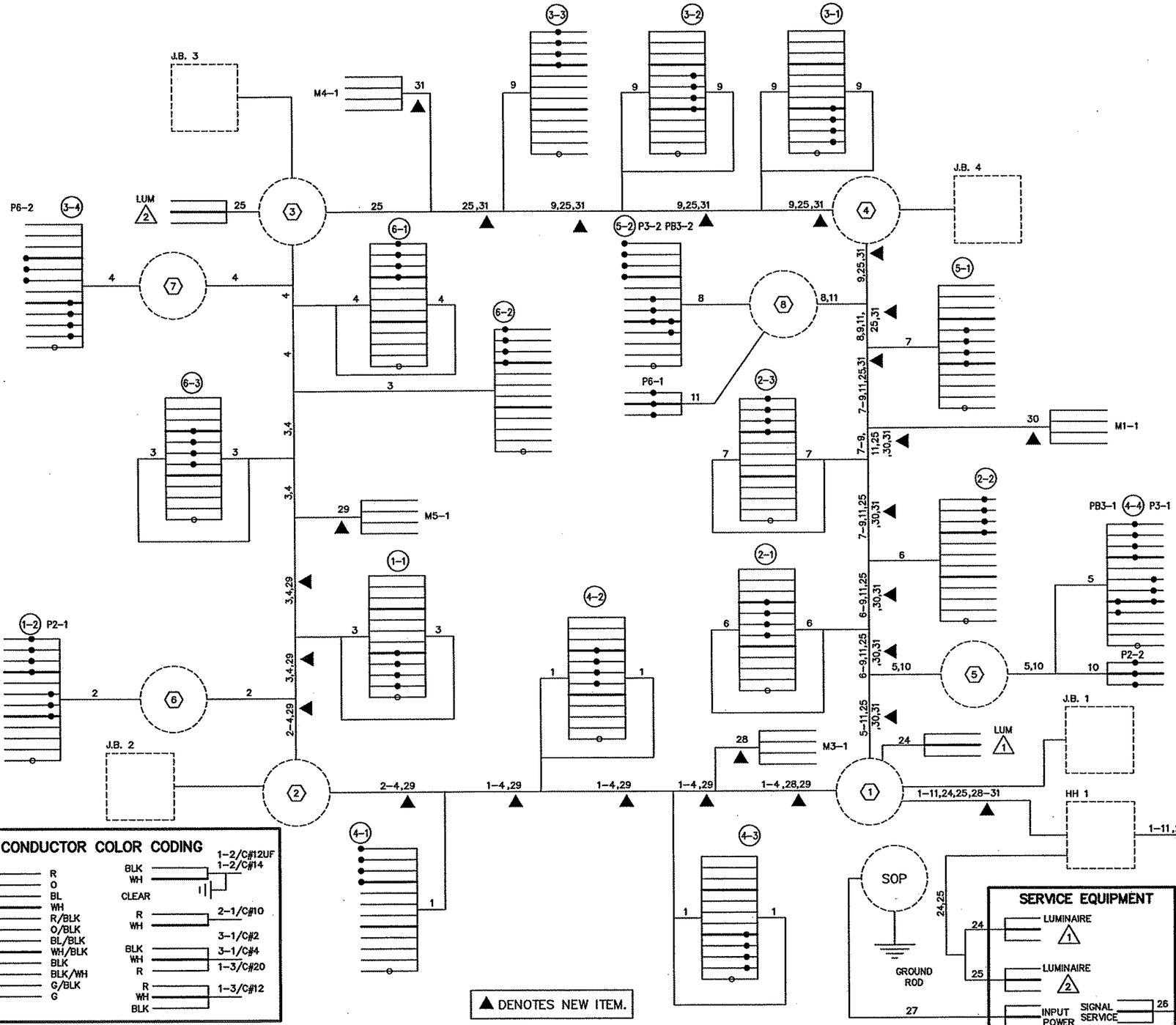
MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "C"
MAIN ST. (CSAH 14) / RIVERDALE VILLAGE BLVD.
SIGNAL STAGING LAYOUT

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO. 353 / 539

PLOT DATE: Apr 22, 04 11:48am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\t np.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 2-TEMP3
DATE: DECEMPER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION TEMPORARY TRAFFIC SIGNAL SYSTEM "C"

MAIN ST. (CSAH 14) / RIVERDALE VILLAGE BLVD.
INTERSECTION LAYOUT

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 354 / 539

PLOT DATE: Apr 2, 04 11:44am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig gwp.gdm

EF DRAWNGS

P3S2
P32
BOX
PLNW
P3I
P3
P2
P1S,
IP2-I
P2SI
PSIG

1 16.7 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH PEC AND CHECK SWITCH

2 – 103 mm RSC RISERS AND WEATHERHEADS TO HH 1
8–12/C#12
6–3/C#12
4–4/C#18
2–3/C#12 (LUM)

27 mm RISER AND WEATHERHEAD ABOVE SPAN WIRE
1–3/C#12 (LUM)

2 16.7 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR

3 TEMPORARY PEDESTAL FOUNDATION
PEDESTAL POLE AND BASE
TYPE 2C PEDESTAL MOUNTED
PEDESTRIAN PUSHBUTTON
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 4 (FOR PHASE 2)

AERIAL CONNECTION TO SPAN WIRE
1–12/C#12
2–3/C#12

4 TEMPORARY PEDESTAL FOUNDATION
PEDESTAL POLE AND BASE
TYPE 1D PEDESTAL MOUNTED
PEDESTRIAN PUSHBUTTON
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 3 (FOR PHASE 2)

AERIAL CONNECTION TO SPAN WIRE
1–12/C#12
1–3/C#12

5 16.7 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH PEC AND CHECK SWITCH

27 mm RISER AND WEATHERHEAD ABOVE SPAN WIRE
1–3/C#12 (LUM)

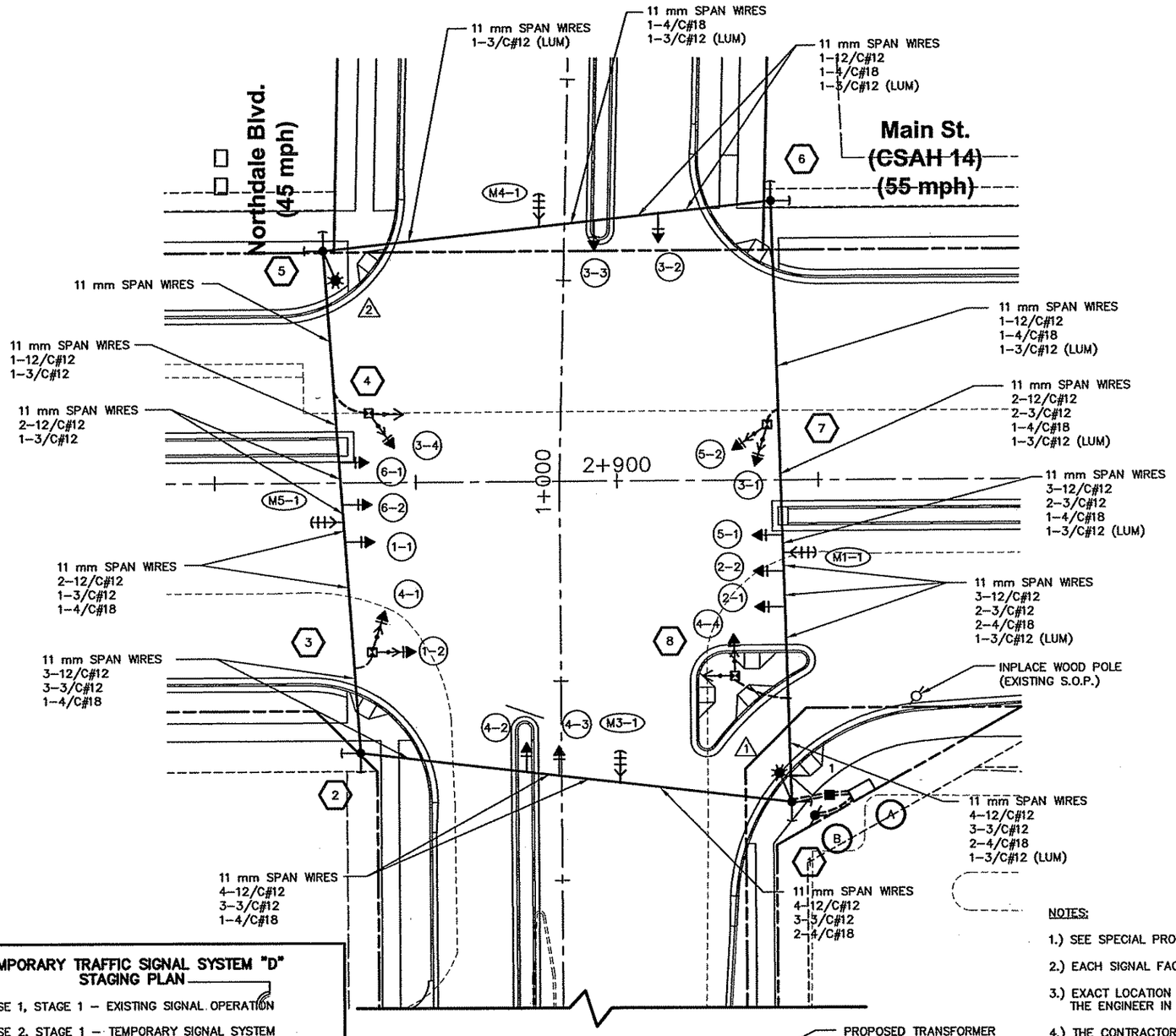
6 16.7 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR

7 TEMPORARY PEDESTAL FOUNDATION
PEDESTAL POLE AND BASE
TYPE 2C PEDESTAL MOUNTED
PEDESTRIAN PUSHBUTTON

AERIAL CONNECTION TO SPAN WIRE
1–12/C#12
2–3/C#12

8 TEMPORARY PEDESTAL FOUNDATION
PEDESTAL POLE AND BASE
TYPE 1D PEDESTAL MOUNTED
PEDESTRIAN PUSHBUTTON

AERIAL CONNECTION TO SPAN WIRE
1–12/C#12
1–3/C#12



GENERAL LAYOUT

TEMPORARY TRAFFIC SIGNAL SYSTEM "D" STAGING PLAN

PHASE 1, STAGE 1 – EXISTING SIGNAL OPERATION

PHASE 2, STAGE 1 – TEMPORARY SIGNAL SYSTEM (SEE PHASE 2 PLAN)

PHASE 3, STAGE 1 – TEMPORARY SIGNAL SYSTEM (SEE PHASE 3, STAGE 1 PLAN)

PHASE 3, STAGE 2 – TEMPORARY SIGNAL SYSTEM (SEE PHASE 3, STAGE 2 PLAN)

PHASE 4, STAGES 1 & 2 – PERMANENT SIGNAL OPERATION

A CABINET FOUNDATION
RELOCATE CONTROLLER AND CABINET

EXTEND INTO HH 1:
2–103 mm RSC
8–12/C#12
6–3/C#12
4–4/C#18

EXTEND INTO SERVICE EQUIPMENT
27 mm RSC
3–1/C#6

B SERVICE EQUIPMENT
(METER SOCKET AND DISCONNECT SWITCH)
4.5 m WOOD POLE CL. 2

STUB OUT 53 mm RSC BELOW SERVICE EQUIPMENT (FOR POWER BY CONNEXUS)

27 mm RSC BELOW SERVICE EQUIPMENT TO CONTROLLER AND CABINET
3–1/C#6

27 mm RSC BELOW SERVICE EQUIPMENT TO HH 1
2–3/C#12 (LUM)

MICROWAVE DETECTORS (MN/DOT FURNISHED)

NUMBER	FUNCTION	STATUS
M1–1	1	INSTALL
M3–1	1	INSTALL
M4–1	1	INSTALL
M5–1	1	INSTALL

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

DETECTOR FUNCTIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – DELAY CALL, IMMEDIATE EXTEND
(8) – STRETCH

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

SIGNAL FACE	R	Y	G	R	Y	G
1–1, 1–2				←	←	←
2–1, 2–2	●	●	●			
3–1, 3–2	●	●	●			
3–3, 3–4	●				←	←
4–1, 4–2	●	●	●			
4–3, 4–4	●				←	←
5–1, 5–2				←	←	←
6–1, 6–2	●	●	●			

NOTES:

1.) SEE SPECIAL PROVISIONS FOR MN/DOT & ANOKA COUNTY FURNISHED MATERIALS.

2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.

3.) EXACT LOCATION OF POLES AND CABINET SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

4.) THE CONTRACTOR SHALL PROVIDE SUFFICIENT SLACK IN CABLE TO ALLOW FOR RELOCATING VEHICLE HEADS AS SHOWN ON SIGNAL STAGING SHEET.

5.) THE CONTRACTOR SHALL COORDINATE THE USE OF THE EXISTING AND PROPOSED SOURCE OF POWER TO ENSURE A FULLY OPERATIONAL TEMPORARY TRAFFIC SIGNAL SYSTEM.

6.) THE CONTRACTOR SHALL REMOVE AND SALVAGE THE INPLACE SIGNAL SYSTEM WHEN DIRECTED BY THE ENGINEER. REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "D".

0 5 10
SCALE IN METERS

PLOT DATE: Apr 22, ...04 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\r... ...ip.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: NDTEMP
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "D"
MAIN ST. (CSAH 14) / NORTHDALE BLVD.
GENERAL LAYOUT

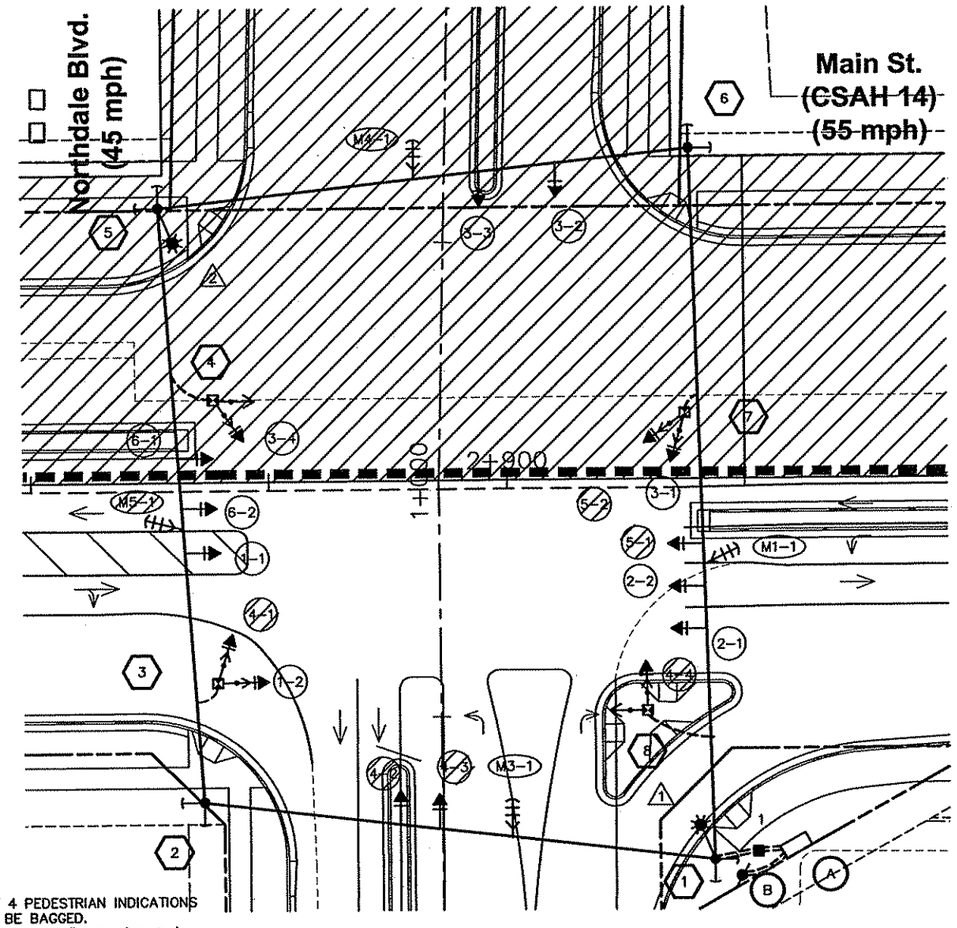
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 355 / 539

EF DRAWINGS

P3S2
P32
BOX
PLNW
P3J
P(
P.
P1S,
IP2-1
P2S1
PS1G

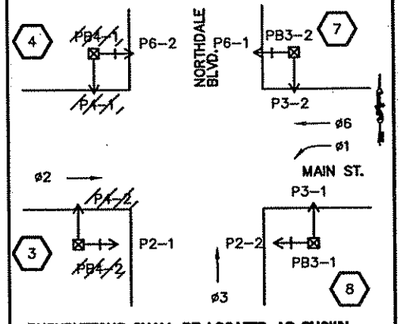


NOTES:

1.) PHASE 4 PEDESTRIAN INDICATIONS SHALL BE BAGGED.
2.) "DO NOT CROSS" SIGN (R9-3A) SHALL BE INSTALLED ON POLE NO. 4 FACING POLE NO. 3.
3.) "DO NOT CROSS" SIGN (R9-3A) SHALL BE INSTALLED ON POLE NO. 3 FACING POLE NO. 4.

PHASE 2 LAYOUT

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

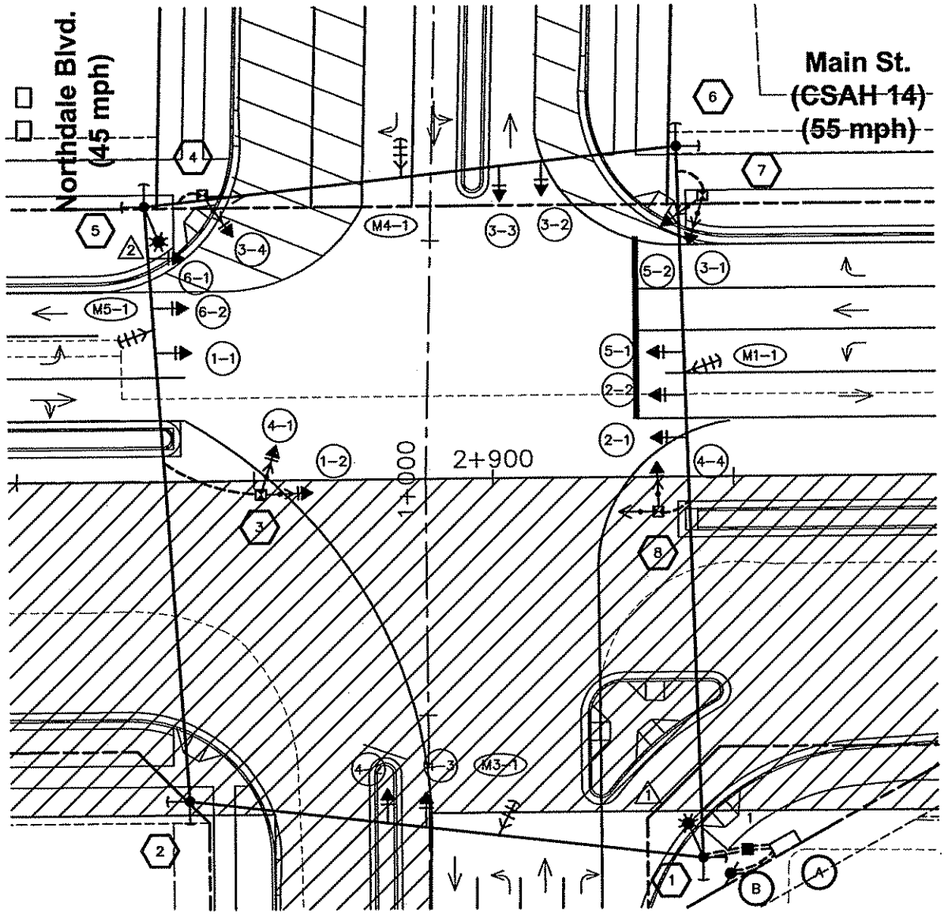
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

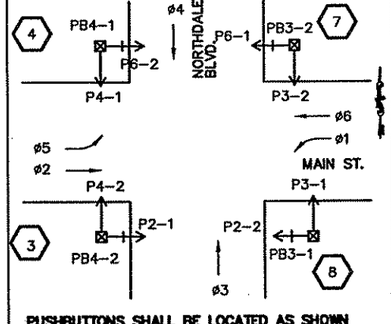
STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1-1, 1-2				←	←	←
	2-1, 2-2	●	●	●			
	3-1, 3-2	●	●	●			
	3-3, 3-4	●				←	←
BAG	4-1, 4-2	●	●	●			
BAG	4-3, 4-4	●				←	←
BAG	5-1, 5-2				←	←	←
	6-1, 6-2	●	●	●			

0 5 10
SCALE IN METERS



PHASE 3, STAGE 1 LAYOUT

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1-1, 1-2				←	←	←
	2-1, 2-2	●	●	●			
	3-1, 3-2	●	●	●			
	3-3, 3-4	●				←	←
	4-1, 4-2	●	●	●			
	4-3, 4-4	●				←	←
	5-1, 5-2				←	←	←
	6-1, 6-2	●	●	●			

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: NDTEMP
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1375 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION TEMPORARY TRAFFIC SIGNAL SYSTEM "D"

MAIN ST. (CSAH 14) / NORTHDALE BLVD.
SIGNAL STAGING LAYOUT

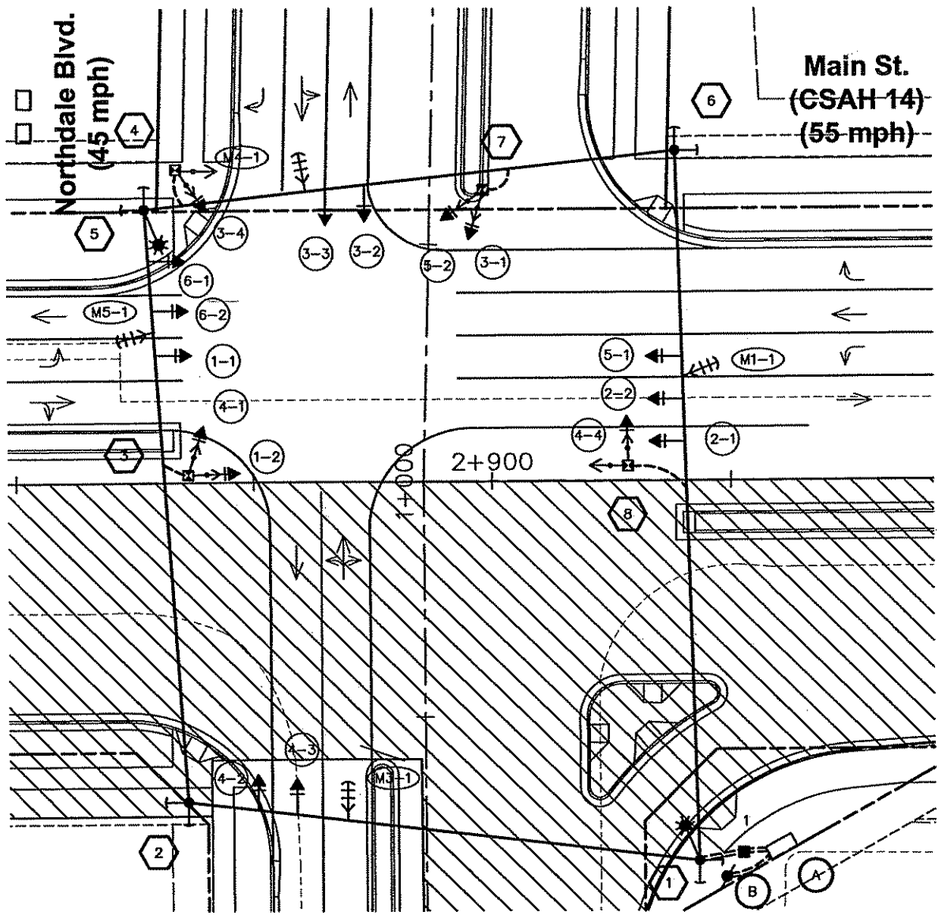
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 356 / 539

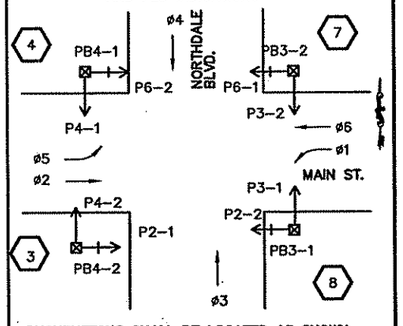
PLOT DATE: Apr 22, 2004 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\ru...sip.dwg

F DRAWINGS
3S2
32
30X
LNW
31
3
2
1S1
P2-1
2S1
S1G



PHASE 3, STAGE 2 LAYOUT

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1-1, 1-2				←	←	←
	2-1, 2-2	●	●	●			
	3-1, 3-2	●	●	●			
	3-3, 3-4	●				←	←
	4-1, 4-2	●	●	●			
	4-3, 4-4	●				←	←
	5-1, 5-2				←	←	←
	6-1, 6-2	●	●	●			

0 5 10
SCALE IN METERS

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION TEMPORARY TRAFFIC SIGNAL SYSTEM "D"

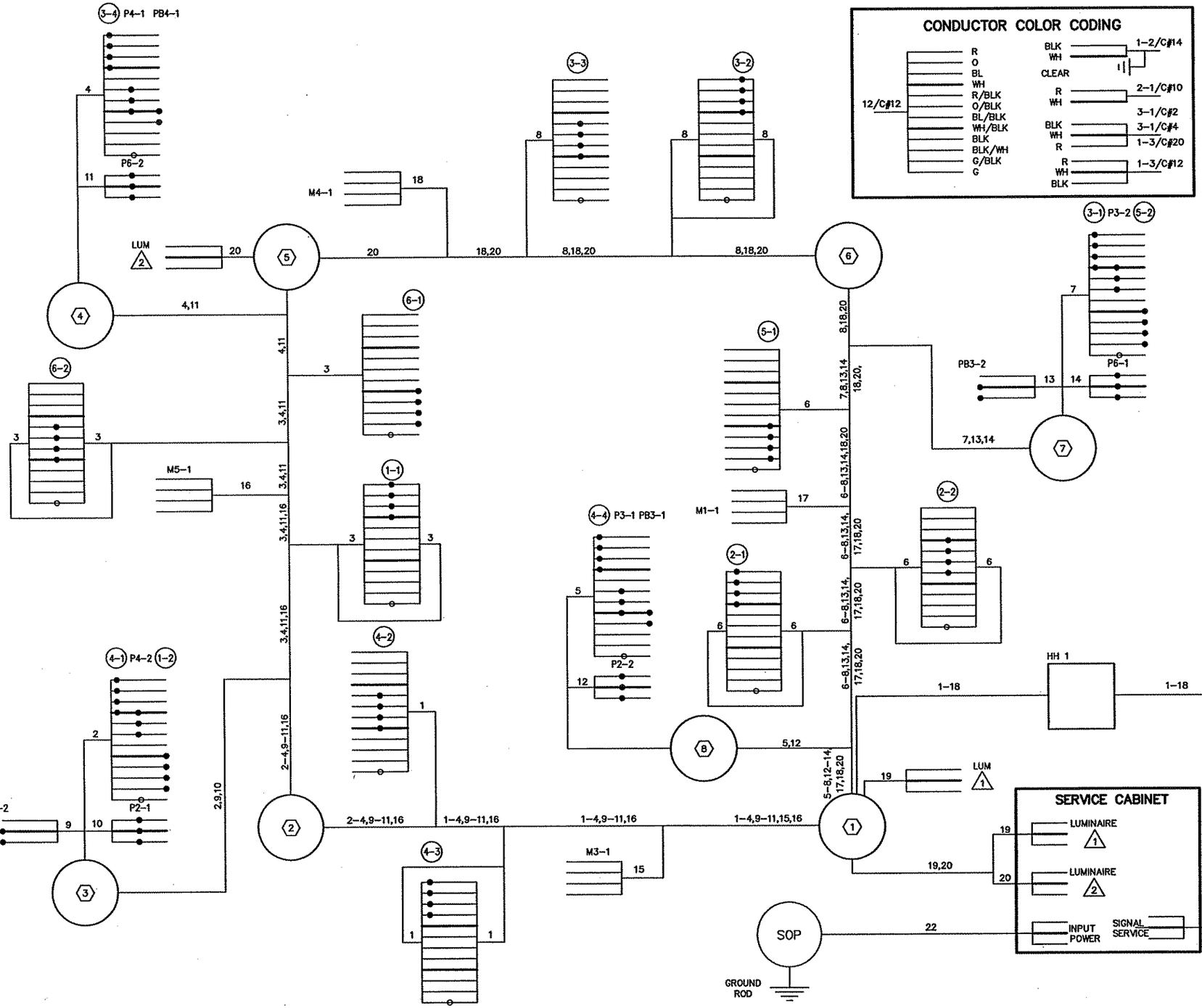
MAIN ST. (CSAH 14) / NORTHDALE BLVD.
SIGNAL STAGING LAYOUT

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 357 / 539

PLOT DATE: Apr 22, 04 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\t...dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 3-TEMP3
DATE: DECEMBER 21, 1999

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "D"
MAIN ST. (CSAH 14) / NORTHDALE BLVD.
FIELD WIRING DIAGRAM

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 358 / 539

PLOT DATE: Apr 2. J4 11:44am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\ tmpsig3.dwg

REF DRAWINGS

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'CON41
'CON31
'CON21
IP4S2
IP
'P
IP3S1
'P21
IP2S1
IPS1G
E-PLN
MHETO
-ESUM
E-ALI

(1) 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH PEC AND CHECK SWITCH
TYPE 10A POLE MOUNTED
TYPE 10B POLE MOUNTED
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 5

METAL JUNCTION BOX #1
53 mm RSC RISER AND WEATHERHEAD
ABOVE J.B. #1
1–12/C#12

2 – 78 mm RSC RISERS & WEATHERHEADS
TO HH 1
10–12/C#12
3–4/C#18
2–3/C#12 (LUM)

27 mm RSC RISER AND WEATHERHEAD
ABOVE SPAN WIRE
1–3/C#12 (LUM)

(2) 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
TYPE 10B POLE MOUNTED
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 4

METAL JUNCTION BOX #2
53 mm RSC RISER AND WEATHERHEAD
ABOVE J.B. #2
1–12/C#12

(3) TEMPORARY PEDESTAL FOUNDATION
PEDESTAL POLE AND BASE
1 – TYPE 2A PEDESTAL MOUNTED

AERIAL CONNECTION TO SPAN WIRE
1–12/C#12

(4) 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH PEC AND CHECK SWITCH
TYPE 10B POLE MOUNTED
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 2

METAL JUNCTION BOX #4
53 mm RSC RISER AND WEATHERHEAD
ABOVE J.B. #4
1–12/C#12

27 mm RSC RISER AND WEATHERHEAD
ABOVE SPAN WIRE
1–3/C#12 (LUM)

(5) 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
TYPE 10B POLE MOUNTED
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 1

METAL JUNCTION BOX #5
53 mm RSC RISER AND WEATHERHEAD
ABOVE J.B. #5
1–12/C#12

(A) CABINET FOUNDATION
RELOCATE CONTROLLER AND CABINET

EXTEND INTO HH 1:
2–78 mm RSC
10–12/C#12
3–4/C#18

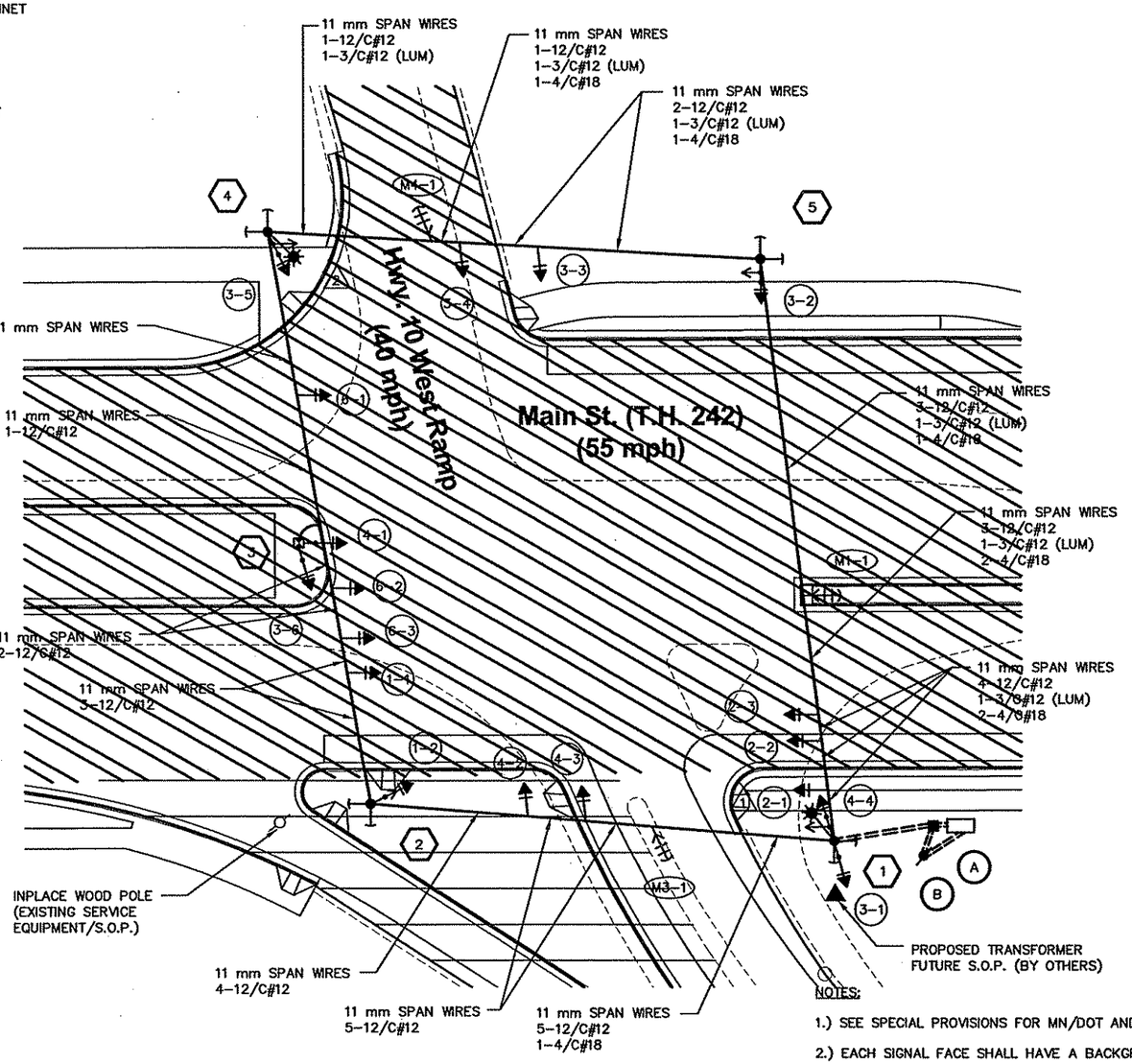
EXTEND INTO SERVICE EQUIPMENT
27 mm RSC
3–1/C#6

(B) SERVICE EQUIPMENT
(METER SOCKET AND DISCONNECT SWITCH)
4.5 m WOOD POLE CL. 2

STUB OUT 53 mm RSC BELOW SERVICE EQUIPMENT
(FOR POWER BY CONNEXUS)

27 mm RSC BELOW SERVICE EQUIPMENT TO CONTROLLER AND CABINET
3–1/C#6

27 mm RSC BELOW SERVICE EQUIPMENT TO HH 1
2–3/C#12 (LUM)



GENERAL LAYOUT

SIGNAL FACES						
ALL INDICATIONS SHALL BE 300 mm						
SIGNAL FACE	R	Y	G	R	Y	G
1–1, 1–2				←	←	←
2–1, 2–2, 2–3	●	●	●			
3–1, 3–2, 3–3	●	●	●			
3–4, 3–5, 3–6	●				←	←
4–1, 4–2	●	●	●			
4–3, 4–4	●				←	←
6–1, 6–2, 6–3	●	●	●			

MICROWAVE DETECTORS (MN/DOT FURNISHED)		
NUMBER	FUNCTION	STATUS
M1–1	1	INSTALL
M3–1	1	INSTALL
M4–1	1	INSTALL

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

DETECTOR FUNCTIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – DELAY CALL, IMMEDIATE EXTEND
(8) – STRETCH

TEMPORARY TRAFFIC SIGNAL SYSTEM "F" STAGING PLAN

PHASE 1, STAGE 1 – STOP CONTROLLED
(SEE CONSTRUCTION STAGING PLANS)

PHASE 2, STAGE 1 – TEMPORARY SIGNAL SYSTEM
(SEE PHASE 2 PLAN)

PHASE 3, STAGES 1 & 2 – TEMPORARY SIGNAL SYSTEM
(SEE PHASE 3 PLAN)

PHASE 4, STAGE 1 – TEMPORARY SIGNAL SYSTEM
(SEE PHASE 4, STAGE 1 PLAN)

PHASE 4, STAGE 2 – TEMPORARY SIGNAL SYSTEM
(SEE PHASE 4, STAGE 2 PLAN)

NOTES:

1.) SEE SPECIAL PROVISIONS FOR MN/DOT AND ANOKA COUNTY FURNISHED MATERIALS.

2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.

3.) EXACT LOCATION OF POLES AND CABINET SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

4.) THE CONTRACTOR SHALL PROVIDE SUFFICIENT SLACK IN CABLE TO ALLOW FOR RELOCATING VEHICLE HEADS AS SHOWN ON SIGNAL STAGING SHEETS.

5.) THE CONTRACTOR SHALL COORDINATE THE USE OF THE EXISTING AND PROPOSED SOURCE OF POWER TO ENSURE A FULLY OPERATIONAL TEMPORARY TRAFFIC SIGNAL SYSTEM.

6.) SIGNAL FACE 3–6 SHALL BE MODIFIED TO SIGNAL FACE 1–3 BETWEEN PHASE 2 AND PHASE 3.

7.) THE CONTRACTOR SHALL REMOVE AND SALVAGE THE INPLACE SIGNAL SYSTEM WHEN DIRECTED BY THE ENGINEER. REMOVAL AND SALVAGE OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "F".

NORTH

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: WRAMPTEMP
DATE: DECEMBER 21, 1999

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "F"
MAIN ST. (T.H. 242) / T.H. 10 WEST RAMP
GENERAL LAYOUT

CITY PROJECT 98–20

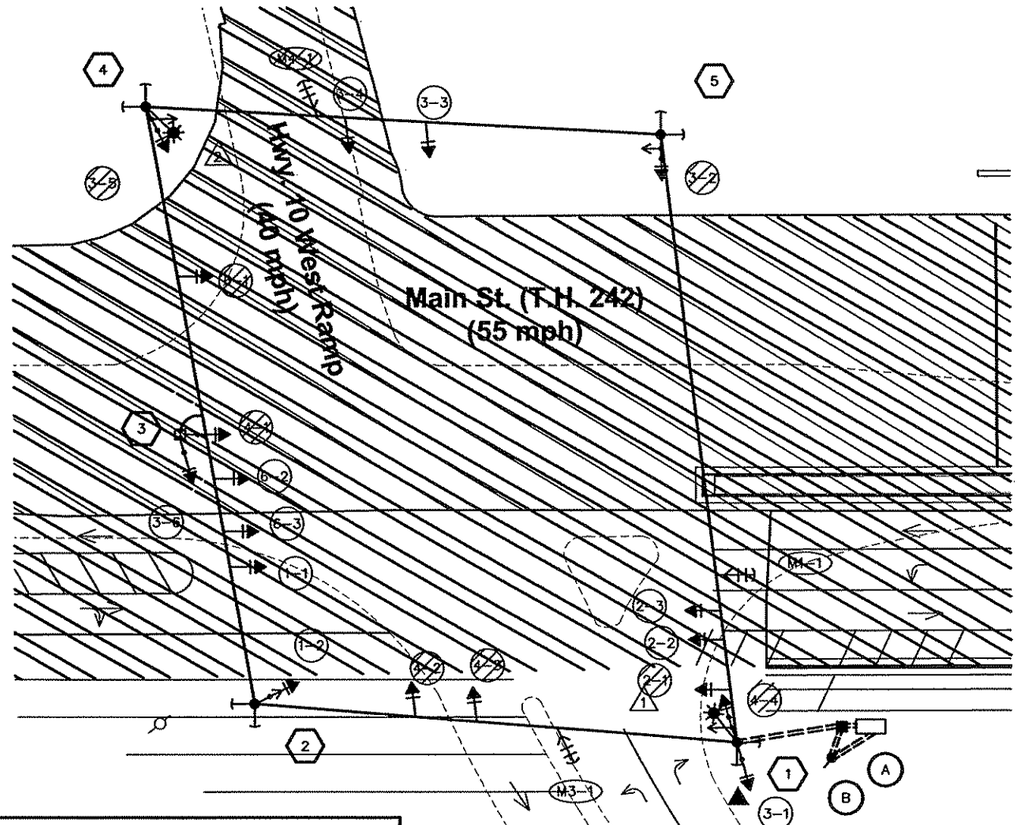
S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 359 / 539

PLOT DATE: Apr 22, 4 11:49am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\w...\temp.dwg

REF DRAWNGS

'CON42
'CON41
'CON31
'CON21
IP4S?
IP/
P2
IP3S1
P21
IP2S1
IPS1G
E-PLN
MHETO
-ESUM
E-AL1



PHASE 2 LAYOUT

SIGNAL SYSTEM OPERATION

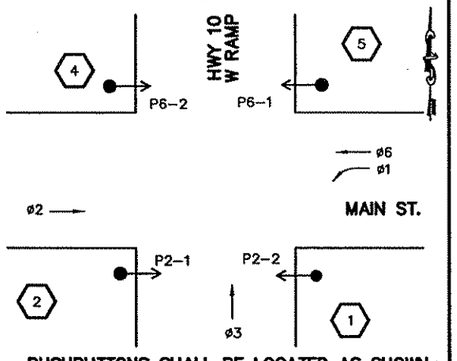
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

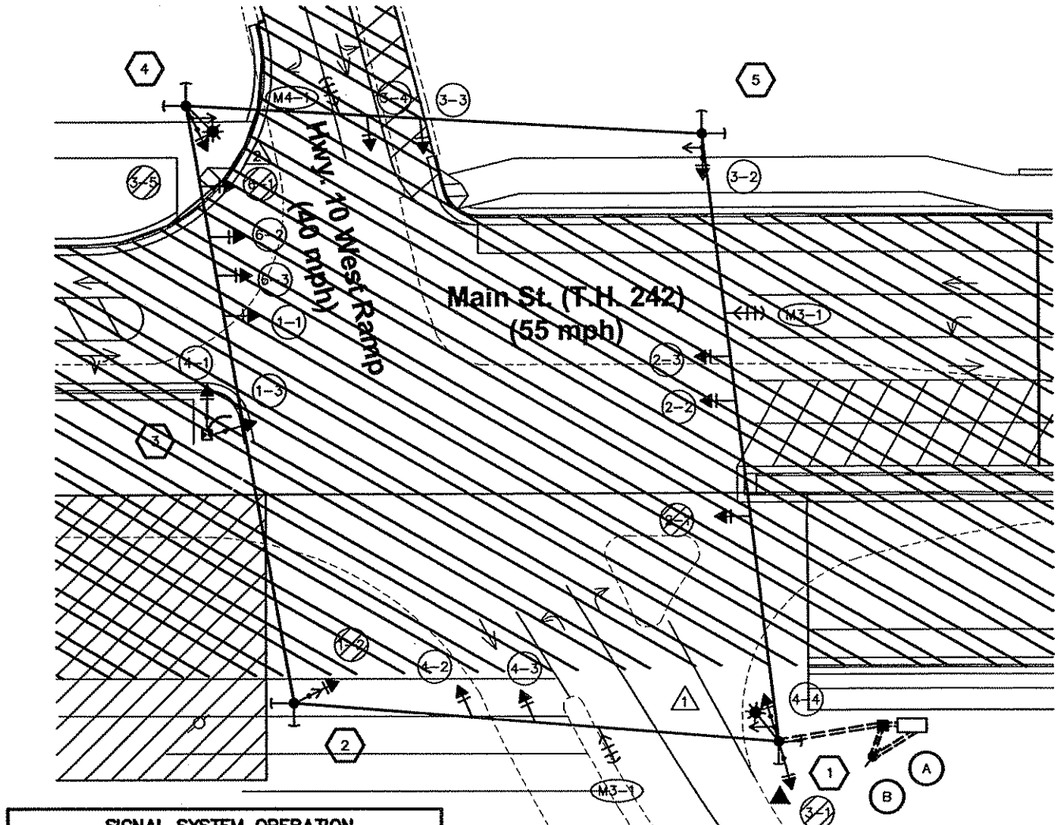
ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1-1, 1-2				←	←	←
BAG	2-1	●	●	●			
	2-2, 2-3	●	●	●			
	3-1, 3-3	●	●	●			
BAG	3-2	●	●	●			
	3-4, 3-6	●				←	←
BAG	3-5	●				←	←
BAG	4-1, 4-2	●	●	●			
BAG	4-3, 4-4	●				←	←
BAG	6-1	●	●	●			
	6-2, 6-3	●	●	●			

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN



PHASE 3 LAYOUT

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 5 PHASE WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

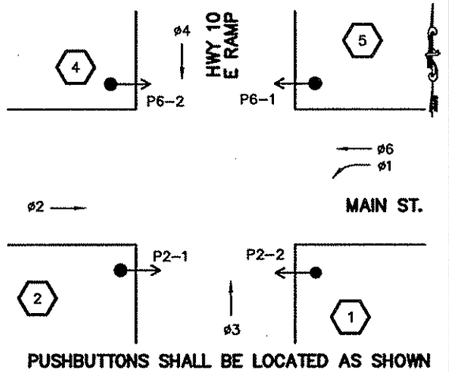
ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1-1				←	←	←
BAG	1-2				←	←	←
	1-3 (WAS 3-6)				←	←	←
BAG	2-1	●	●	●			
	2-2, 2-3	●	●	●			
BAG	3-1	●	●	●			
	3-2, 3-3	●	●	●			
	3-4, 3-5	●				←	←
	4-1, 4-2	●	●	●			
	4-3, 4-4	●				←	←
BAG	6-1	●	●	●			
	6-2, 6-3	●	●	●			

NOTE:

SIGNAL FACE 3-6 SHALL BE MODIFIED TO SIGNAL FACE 1-3 BETWEEN PHASE 2 AND PHASE 3.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: WRAMPTEMP
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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "F"
MAIN ST. (T.H. 242) / T.H. 10 WEST RAMP
SIGNAL STAGING LAYOUT

CITY PROJECT 98-20

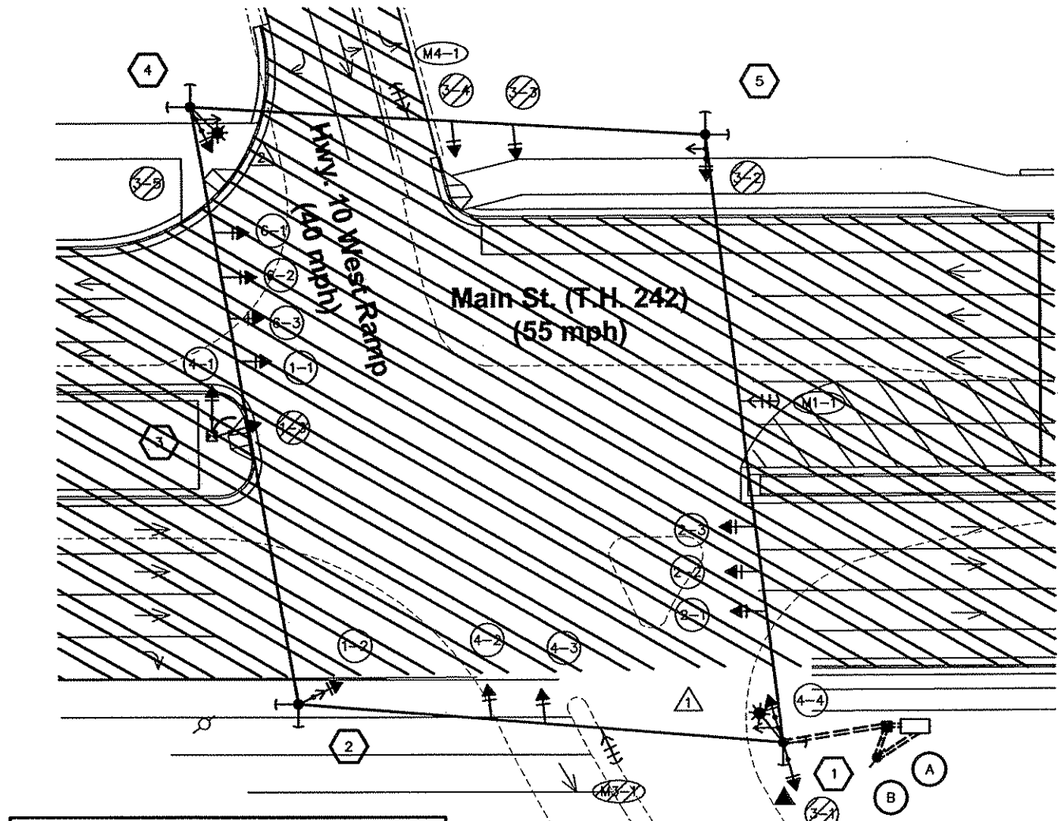
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 360 / 539

PLOT DATE: Apr 22, ...04 11:49am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\W...ptemp.dwg

EF DRAWNGS

CON42
CON41
CON31
CON21
P4S2
P4
P3
P3S
P2I
P2SI
PSIG
E-PLN
MHETO
-ESUM
E-ALI

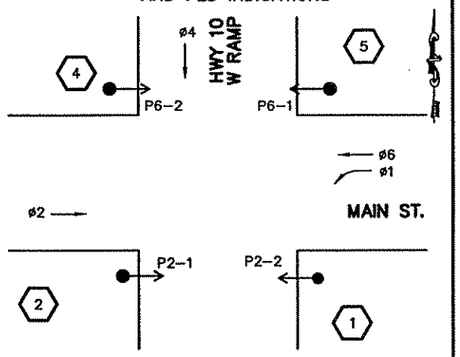


PHASE 4, STAGE 1 LAYOUT

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



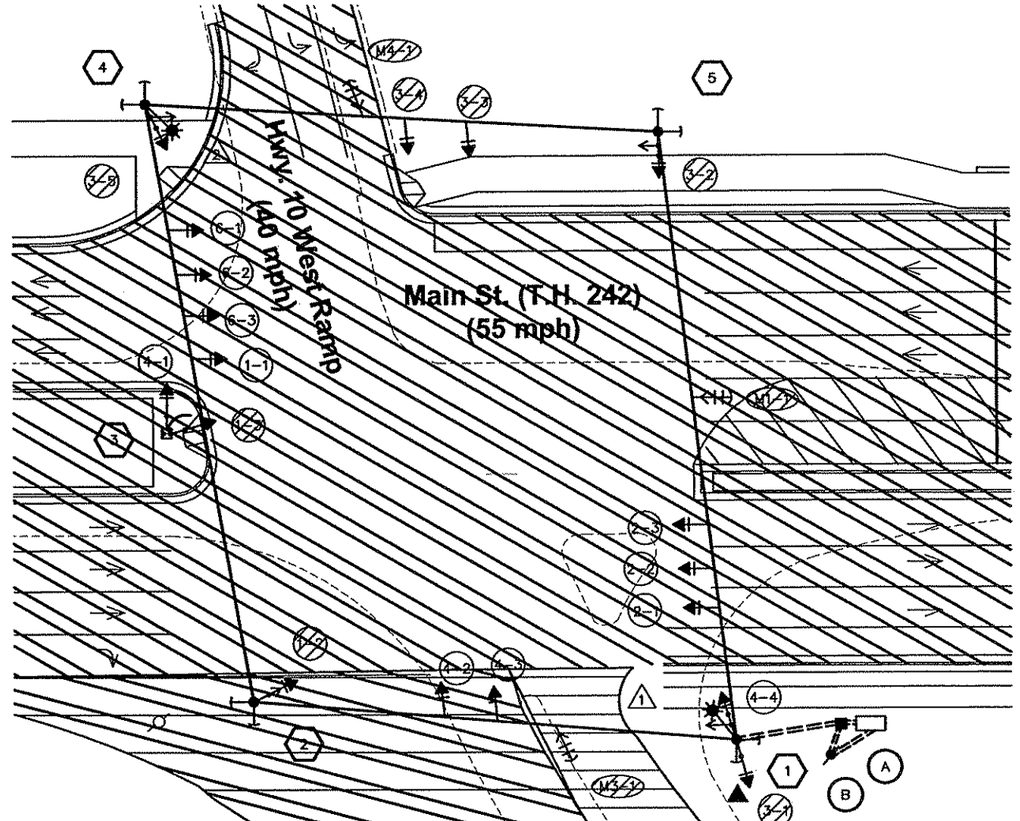
PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1-1, 1-2				←	←	←
BAG	1-3				←	←	←
	2-1, 2-2, 2-3	●	●	●			
BAG	3-1, 3-2, 3-3	●	●	●			
BAG	3-4, 3-5	●				←	←
	4-1, 4-2	●	●	●			
	4-3, 4-4	●				←	←
	6-1, 6-2, 6-3	●	●	●			

0 5 10
SCALE IN METERS

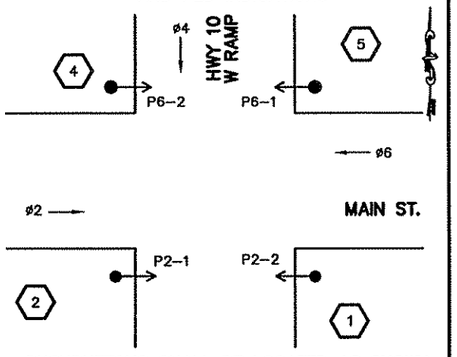


PHASE 4, STAGE 2 LAYOUT

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 3 PHASE WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
BAG	1-1, 1-2, 1-3				←	←	←
	2-1, 2-2, 2-3	●	●	●			
BAG	3-1, 3-2, 3-3	●	●	●			
BAG	3-4, 3-5	●				←	←
	4-1, 4-2	●	●	●			
	4-3, 4-4	●				←	←
	6-1, 6-2, 6-3	●	●	●			

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

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DRAWN BY: JAS | DESIGN BY: JRN
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DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 12/21/99 MINN. REG. NO. 26781

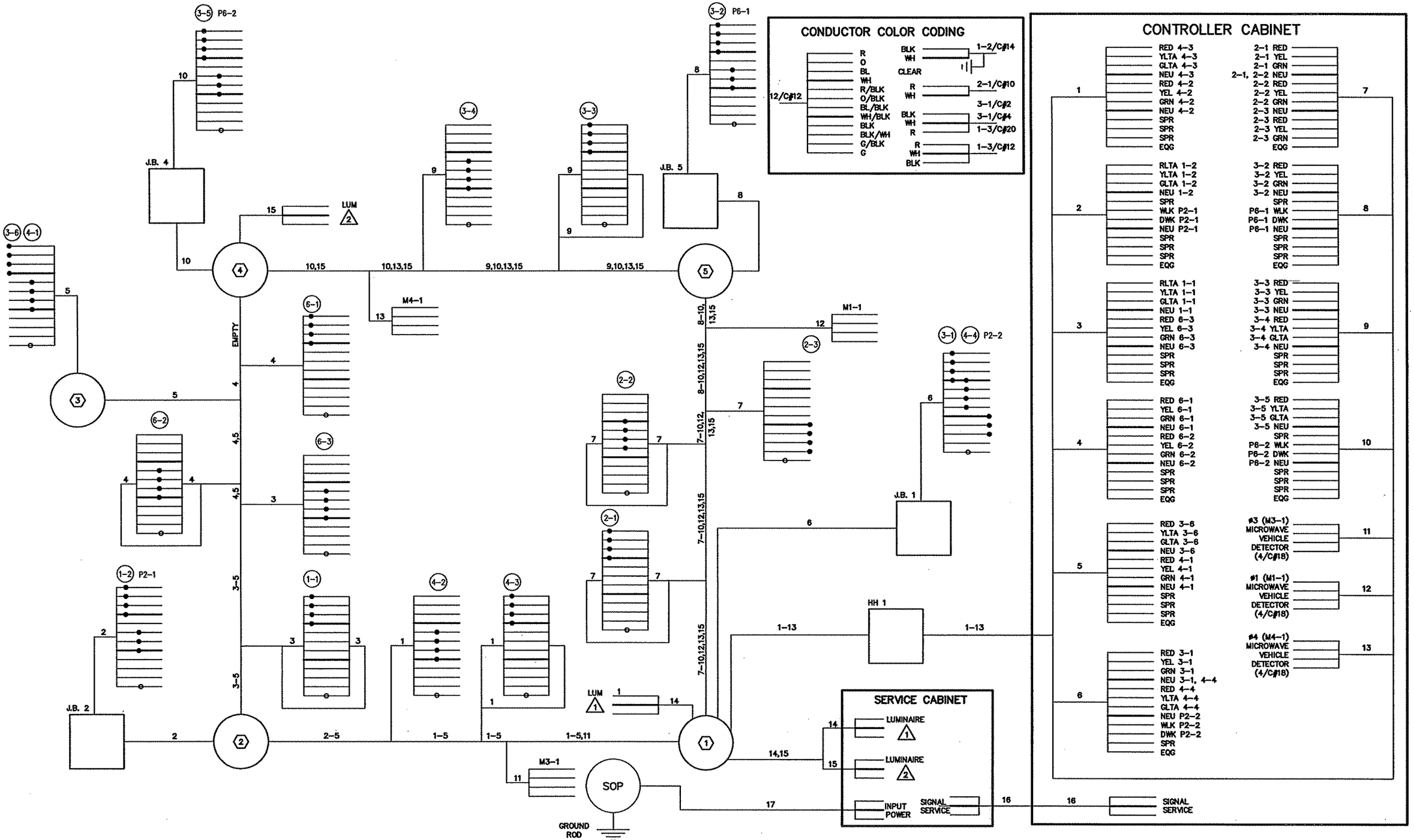
MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "F"
MAIN ST. (T.H. 242) / T.H. 10 WEST RAMP
SIGNAL STAGING LAYOUT

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 361 / 539

PLOT DATE: Apr 22, 04 11:49am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\Temp.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: WRAMPTEMP
DATE: DECEMBER 21, 1999

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "F"
MAIN ST. (T.H. 242) / T.H. 10 WEST RAMP
FIELD WIRING DIAGRAM

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 362 / 539

PLOT DATE: Apr 24, 04 11:49am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\...ptemp.dwg

REF DRAWINGS

IP21
IPSIG
MHETO
-ESUM
E-A1.1

(1) 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH PEC AND CHECK SWITCH
TYPE 30A POLE MOUNTED
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 4

2 – 78 mm RSC RISERS AND WEATHERHEADS
TO HH 1
5–12/C#12
3–3/C#12
2–4/C#18
2–3/C#12 (LUM)

METAL JUNCTION BOX #1
53 mm RISER AND WEATHERHEAD
ABOVE J.B. #1
1–3/C#12

27 mm RSC RISER AND WEATHERHEAD
ABOVE SPAN WIRE
1–3/C#12 (LUM)

(2) 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
TYPE 30A POLE MOUNTED
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 3

METAL JUNCTION BOX #2
53 mm RISER AND WEATHERHEAD
ABOVE J.B. #2
1–3/C#12

(3) 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH PEC AND CHECK SWITCH
TYPE 10B POLE MOUNTED
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 2

METAL JUNCTION BOX #3
53 mm RSC RISER AND WEATHERHEAD
ABOVE SPAN WIRE
1–12/C#12

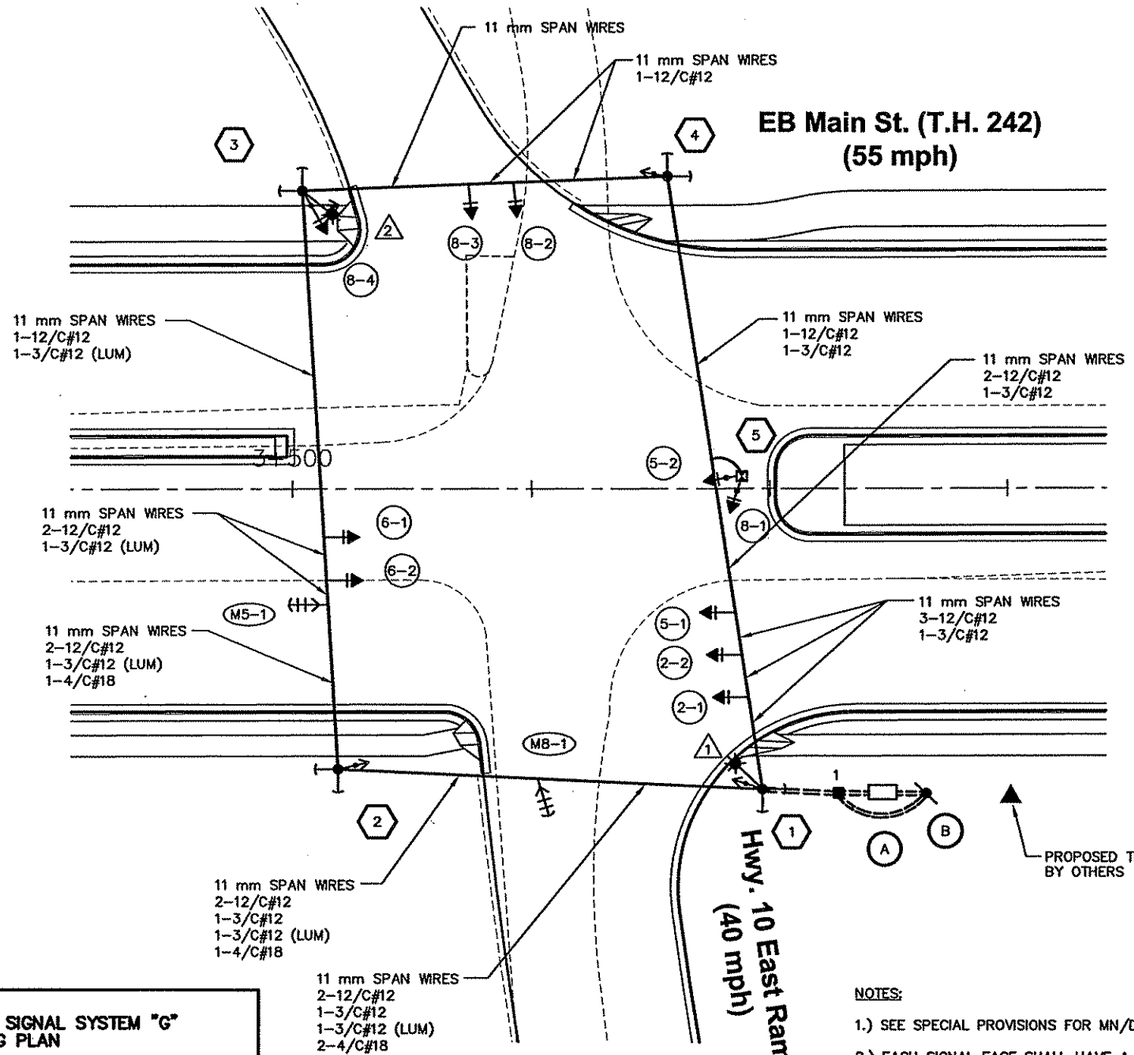
27 mm RSC RISER AND WEATHERHEAD
ABOVE SPAN WIRE
1–3/C#12 (LUM)

(4) 16.8 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
TYPE 30A POLE MOUNTED
"DO NOT CROSS" SIGN (R9–3A)
FACING POLE NO. 1

METAL JUNCTION BOX #4
53 mm RSC RISER AND WEATHERHEAD
ABOVE SPAN WIRE
1–3/C#12

(5) TEMPORARY PEDESTAL FOUNDATION
PEDESTAL POLE & BASE
1 – TYPE 2A PEDESTAL MOUNTED

AERIAL CONNECTION TO SPAN WIRE
1–12/C#12



GENERAL LAYOUT

TEMPORARY TRAFFIC SIGNAL SYSTEM "G" STAGING PLAN

PHASE 1, STAGE 1 – INTERSECTION CLOSED
(SEE CONSTRUCTION STAGING PLAN)

PHASE 2, STAGE 1 – TEMPORARY SIGNAL SYSTEM
(SEE PHASE 2 PLAN)

PHASE 3, STAGES 1 & 2 – TEMPORARY SIGNAL SYSTEM
(SEE PHASE 3 PLAN)

PHASE 4, STAGES 1 & 2– PERMANENT SIGNAL OPERATION

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

SIGNAL FACE	R	Y	G	R	Y	G
2–1, 2–2	●	●	●			
5–1, 5–2				←	←	←
6–1, 6–2	●	●	●			
8–1, 8–2	●	●	●			
8–3	●	●	●			←
8–4	●				←	←

MICROWAVE DETECTORS (MN/DOT FURNISHED)

NUMBER	FUNCTION	STATUS
M5–1	1	INSTALL
M8–1	1	INSTALL

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

DETECTOR FUNCTIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – DELAY CALL, IMMEDIATE EXTEND
(8) – STRETCH

(A) CABINET FOUNDATION
RELOCATE CONTROLLER AND CABINET

EXTEND INTO HH 1:
2–78 mm RSC
5–12/C#12
3–3/C#12
2–4/C#18

EXTEND INTO SERVICE EQUIPMENT
27 mm RSC
3–1/C#6

(B) SERVICE EQUIPMENT
(METER SOCKET AND DISCONNECT SWITCH)
4.5 m WOOD POLE CL. 2

STUB OUT 53 mm RSC BELOW SERVICE EQUIPMENT
(FOR POWER BY CONNEXUS)

27 mm RSC BELOW SERVICE EQUIPMENT TO CONTROLLER AND CABINET
3–1/C#6

27 mm RSC BELOW SERVICE EQUIPMENT TO HH 1
2–3/C#12 (LUM)

NOTES:

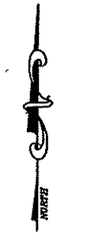
1.) SEE SPECIAL PROVISIONS FOR MN/DOT AND ANOKA COUNTY FURNISHED MATERIALS.

2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.

3.) EXACT LOCATION OF POLES AND CABINET SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

4.) THE CONTRACTOR SHALL PROVIDE SUFFICIENT SLACK IN CABLE TO ALLOW FOR RELOCATING VEHICLE HEADS AS SHOWN ON SIGNAL STAGING SHEET.

5.) THE CONTRACTOR SHALL REMOVE AND SALVAGE THE INPLACE SIGNAL SYSTEM WHEN DIRECTED BY THE ENGINEER. REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "G".



0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: ERAMPTEMP
DATE: DECEMBER 21, 1999

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "G"
MAIN ST. (T.H. 242) / T.H. 10 EAST RAMP
GENERAL LAYOUT

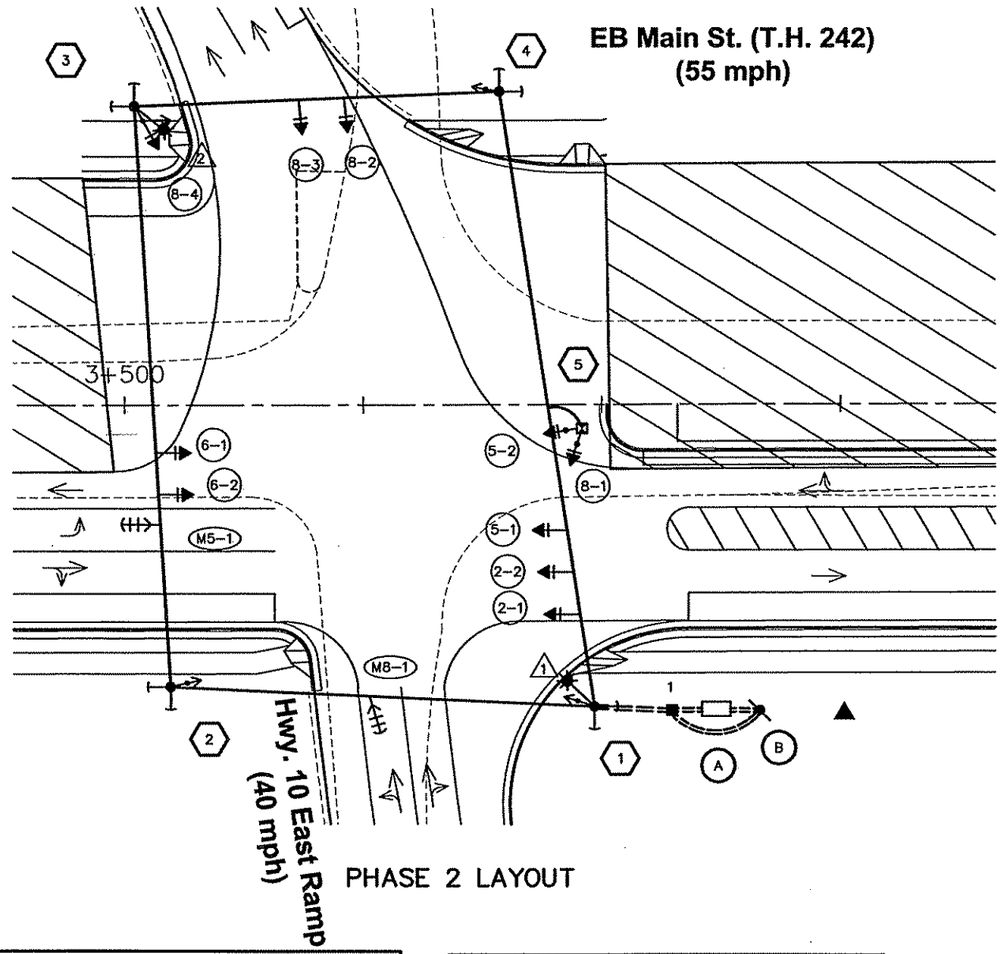
CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

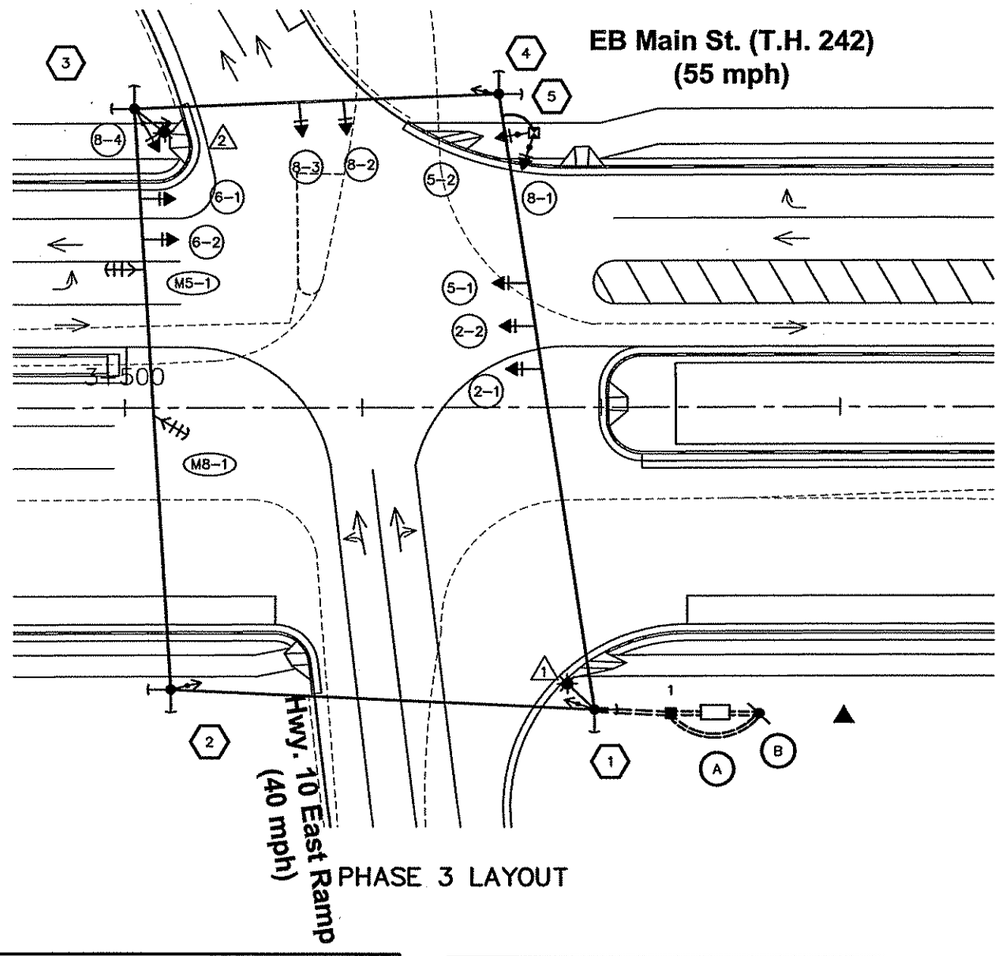
SHEET NO. 363 / 539

PLOT DATE: Apr 22, 04 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\e___\temp.dwg

REF DRAWNGS
IP21
PSIG
MHETO
-ESUM
E-ALL

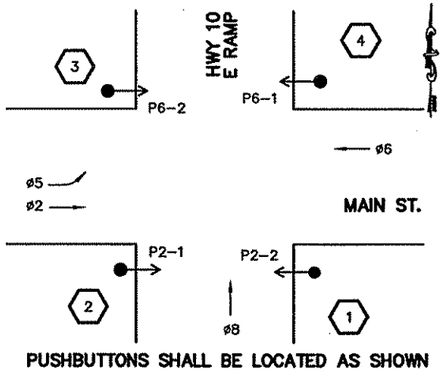


PHASE 2 LAYOUT



PHASE 3 LAYOUT

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE WITH PHASE 5 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

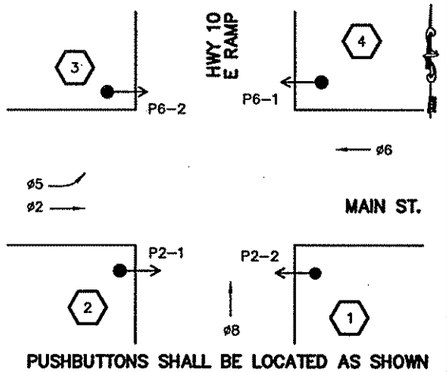
ALL INDICATIONS SHALL BE 300 mm

SIGNAL FACE	R	Y	G	R	Y	G
2-1, 2-2	●	●	●			
5-1, 5-2				←	←	←
6-1, 6-2	●	●	●			
8-1, 8-2	●	●	●			
8-3	●	●	●			←
8-4	●				←	←

NORTH

0 5 10
SCALE IN METERS

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE WITH PHASE 5 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

SIGNAL FACE	R	Y	G	R	Y	G
2-1, 2-2	●	●	●			
5-1, 5-2				←	←	←
6-1, 6-2	●	●	●			
8-1, 8-2	●	●	●			
8-3	●	●	●			←
8-4	●				←	←

NORTH

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "G"
MAIN ST. (T.H. 242) / T.H. 10 EAST RAMP
SIGNAL STAGING LAYOUT

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
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S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 364 / 539

PLOT DATE: Apr 24, J4 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\e...\temp.dwg

CONDUCTOR COLOR CODING

12/C#12: R, O, BL, WH, R/BLK, O/BLK, BL/BLK, WH/BLK, BLK, BLK/WH, G/BLK, G

1-2/C#14: BLK, WH, CLEAR

2-1/C#10: R, WH

3-1/C#2: BLK

3-1/C#4: BLK, WH

1-3/C#20: R

1-3/C#12: R, WH, BLK

CONTROLLER CABINET

1 — 5
- RED 6-1, YEL 6-1, GRN 6-1, NEU 6-1, RED 6-2, YEL 6-2, GRN 6-2, NEU 6-2, SPR, SPR, SPR, EQG
- 8-2 RED, 8-2 YEL, 8-2 GRN, 8-2 NEU, 8-3 RED, 8-3 YEL, 8-3 GRN, 8-3 NEU, 8-3 GLTA, SPR, SPR, EQG

2
- RED 8-4, YLTA 8-4, GLTA 8-4, NEU 8-4, SPR, WLK P6-2, DWK P6-2, NEU P6-2, SPR, SPR, SPR, EQG

3 — 6, 7, 8
- RED 2-2, YEL 2-2, GRN 2-2, NEU 2-2, 2-1, RED 2-1, YEL 2-1, GRN 2-1, NEU 5-1, RLTA 5-1, YLTA 5-1, GLTA 5-1, EQG
- P2-2 WLK, P2-2 NEU, P2-2 DWK
- P2-1 WLK, P2-1 NEU, P2-1 DWK
- P6-1 WLK, P6-1 NEU, P6-1 DWK

4 — 9, 10
- RED 8-1, YEL 8-1, GRN 8-1, NEU 8-1, RLTA 5-2, YLTA 5-2, GLTA 5-2, NEU 5-2, SPR, SPR, SPR, EQG
- ø8 (M8-1) MICROWAVE VEHICLE DETECTOR (4/C#18)
- ø5 (M5-1) MICROWAVE VEHICLE DETECTOR (4/C#18)

SERVICE CABINET

- LUMINAIRE 1
- LUMINAIRE 2
- INPUT POWER
- SIGNAL SERVICE

13 — SIGNAL SERVICE

J.B. 3: 2
J.B. 4: 8
J.B. 2: 7
J.B. 3: 6
HH 1: 1-10

8-4 P6-2 (2) — 8-3 (5) — 8-2 (5,5) — P6-1 (8) — 8-1 (4) — 5-2

LUM (2): 12

M5-1: 10

M8-1: 9

P2-1: 7

P2-2: 6

SOP — GROUND ROD

5-1 (3) — 2-1 (3,3) — 2-2 (3,3)

6-1 (1) — 6-2 (1,1)

3: 2, 2,12, 1,2,12, 1,2,10,12, 5,8, 4,5,8, 3-5,8, 3-5,8, 3-5,8

2: 7, 1,2,7,10,12

1: 6, 1,2,7,9,10,12, 11, 1 LUM (1), 11,12

5: 4

PLOT DATE: Apr 24 J4 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\temp.dwg

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION TEMPORARY TRAFFIC SIGNAL SYSTEM "G"

MAIN ST. (T.H. 242) / T.H. 10 EAST RAMP
FIELD WIRING DIAGRAM

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 365 / 539

F DRAWINGS

31
3SI
21
2SI
SIG
-F
HL
ESU
-AL1

(1) 15.2 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH PEC AND CHECK SWITCH
TYPE 10C POLE MOUNTED
PEDESTRIAN PUSHBUTTON

2 – 103 mm RSC RISERS AND WEATHERHEADS TO HH 1
10–12/C#12
2–3/C#12
4–4/C#18
2–3/C#12 (LUM)

METAL JUNCTION BOX #1
53 mm RSC RISER AND WEATHERHEAD ABOVE J.B. #1
1–12/C#12
1–3/C#12

27 mm RSC RISER AND WEATHERHEAD ABOVE SPAN WIRE
1–3/C#12 (LUM)

(A) CABINET FOUNDATION
RELOCATE CONTROLLER AND CABINET

EXTEND INTO HH 1:
2–103 mm RSC
10–12/C#12
2–3/C#3
4–4/C#18

EXTEND INTO SERVICE EQUIPMENT
27 mm RSC
3–1/C#6

(B) SERVICE EQUIPMENT
(METER SOCKET AND DISCONNECT SWITCH)
4.5 m WOOD POLE CL. 2

STUB OUT 53 mm RSC BELOW SERVICE EQUIPMENT (FOR POWER BY CONNEXUS)

27 mm RSC BELOW SERVICE EQUIPMENT TO CONTROLLER AND CABINET
3–1/C#6

27 mm RSC BELOW SERVICE EQUIPMENT TO HH 1
2–3/C#12 (LUM)

(2) 15.2 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
1 – TYPE 30B POLE MOUNTED
PEDESTRIAN PUSHBUTTON

METAL JUNCTION BOX #2
53 mm RSC RISER AND WEATHERHEAD ABOVE J.B. #2
1–12/C#12

(3) TEMPORARY PEDESTAL FOUNDATION
PEDESTAL POLE AND BASE
TYPE 2A PEDESTAL MOUNTED

AERIAL CONNECTION TO SPAN WIRE
1–12/C#12

(4) 15.2 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH PEC AND CHECK SWITCH
TYPE 10C POLE MOUNTED
PEDESTRIAN PUSHBUTTON

METAL JUNCTION BOX #4
53 mm RSC RISER AND WEATHERHEAD ABOVE J.B. #4
1–12/C#12
1–3/C#12

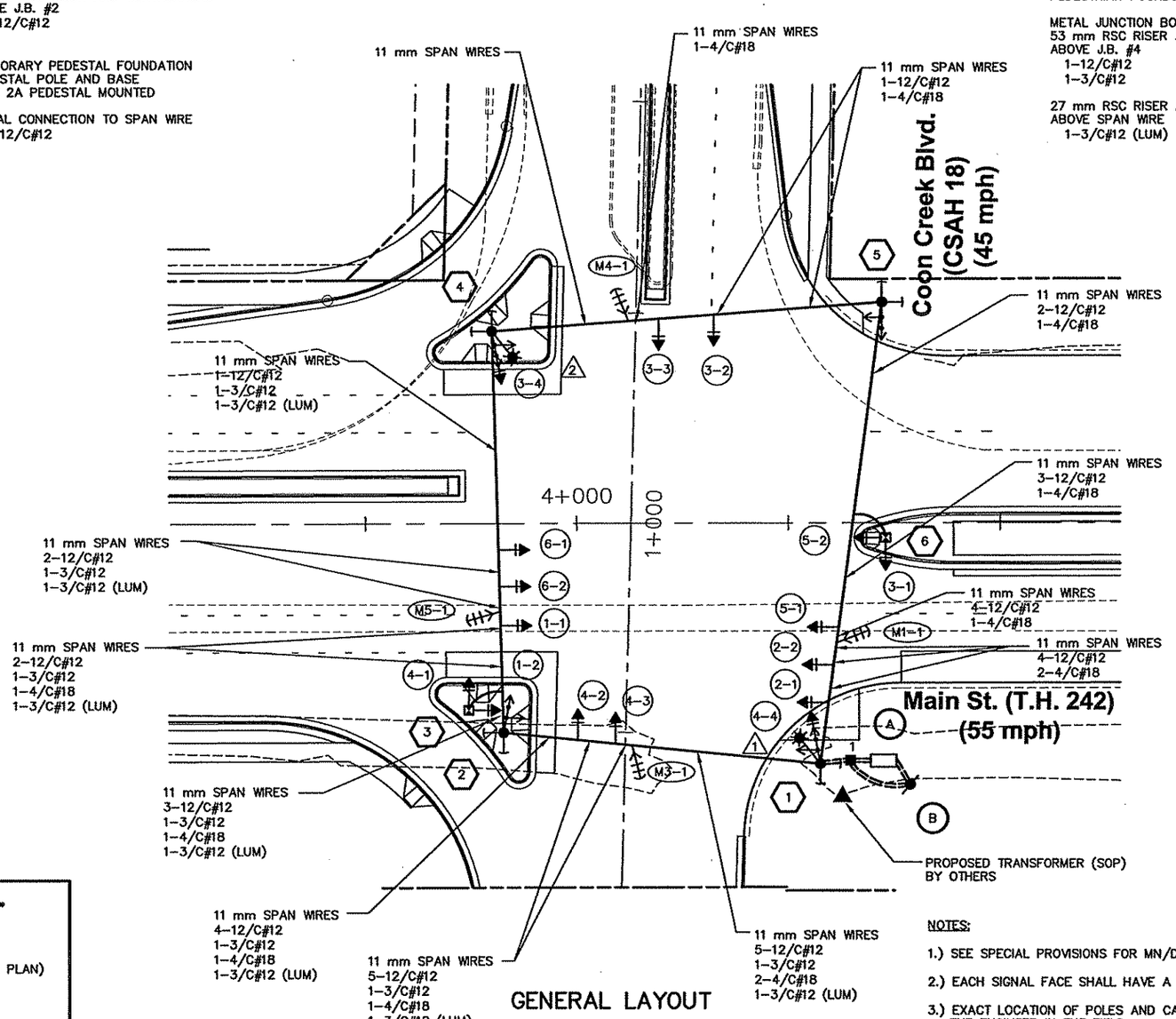
27 mm RSC RISER AND WEATHERHEAD ABOVE SPAN WIRE
1–3/C#12 (LUM)

(5) 15.2 m WOOD POLE CL. 2
2 – DOWNGUY GUARD AND ANCHOR
TYPE 30B POLE MOUNTED
PEDESTRIAN PUSHBUTTON

METAL JUNCTION BOX #5
53 mm RSC RISER AND WEATHERHEAD ABOVE J.B. #5
1–12/C#12

(6) TEMPORARY PEDESTAL FOUNDATION
PEDESTAL POLE AND BASE
TYPE 2A PEDESTAL MOUNTED

AERIAL CONNECTION TO SPAN WIRE
1–12/C#12



GENERAL LAYOUT

MICROWAVE DETECTORS (MN/DOT FURNISHED)		
NUMBER	FUNCTION	STATUS
M1–1	1	INSTALL
M3–1	1	INSTALL
M4–1	1	INSTALL
M5–1	1	INSTALL

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

DETECTOR FUNCTIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – DELAY CALL, IMMEDIATE EXTEND
(8) – STRETCH

SIGNAL FACES						
ALL INDICATIONS SHALL BE 300 mm						
SIGNAL FACE	R	Y	G	R	Y	G
1–1, 1–2				←	←	←
2–1, 2–2	●	●	●			
3–1, 3–2	●	●	●			
3–3, 3–4	●				←	←
4–1, 4–2	●	●	●			
4–3, 4–4	●				←	←
5–1, 5–2				←	←	←
6–1, 6–2	●	●	●			

TEMPORARY TRAFFIC SIGNAL SYSTEM "H" STAGING PLAN

PHASE 1, STAGE 1 – INTERSECTION BYPASS (SEE CONSTRUCTION STAGING PLAN)

PHASE 2, STAGE 1 – TEMPORARY SIGNAL SYSTEM (SEE PHASE 2 PLAN)

PHASE 3, STAGES 1 & 2 – TEMPORARY SIGNAL SYSTEM (SEE PHASE 3 PLAN)

PHASE 4, STAGES 1 & 2 – PERMANENT SIGNAL OPERATION

NOTES:

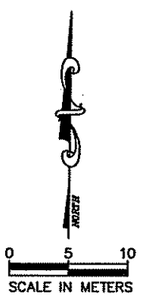
1.) SEE SPECIAL PROVISIONS FOR MN/DOT & ANOKA COUNTY FURNISHED MATERIALS.

2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.

3.) EXACT LOCATION OF POLES AND CABINET SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

4.) THE CONTRACTOR SHALL PROVIDE SUFFICIENT SLACK IN CABLE TO ALLOW FOR RELOCATING VEHICLE HEADS AS SHOWN ON SIGNAL STAGING SHEET.

5.) THE CONTRACTOR SHALL REMOVE AND SALVAGE THE INPLACE SIGNAL SYSTEM WHEN DIRECTED BY THE ENGINEER. REMOVAL AND SALVAGE OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "H".



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: COONTEMP
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1578 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "H"
MAIN ST. (T.H. 242) / COON CREEK BLVD.
GENERAL LAYOUT

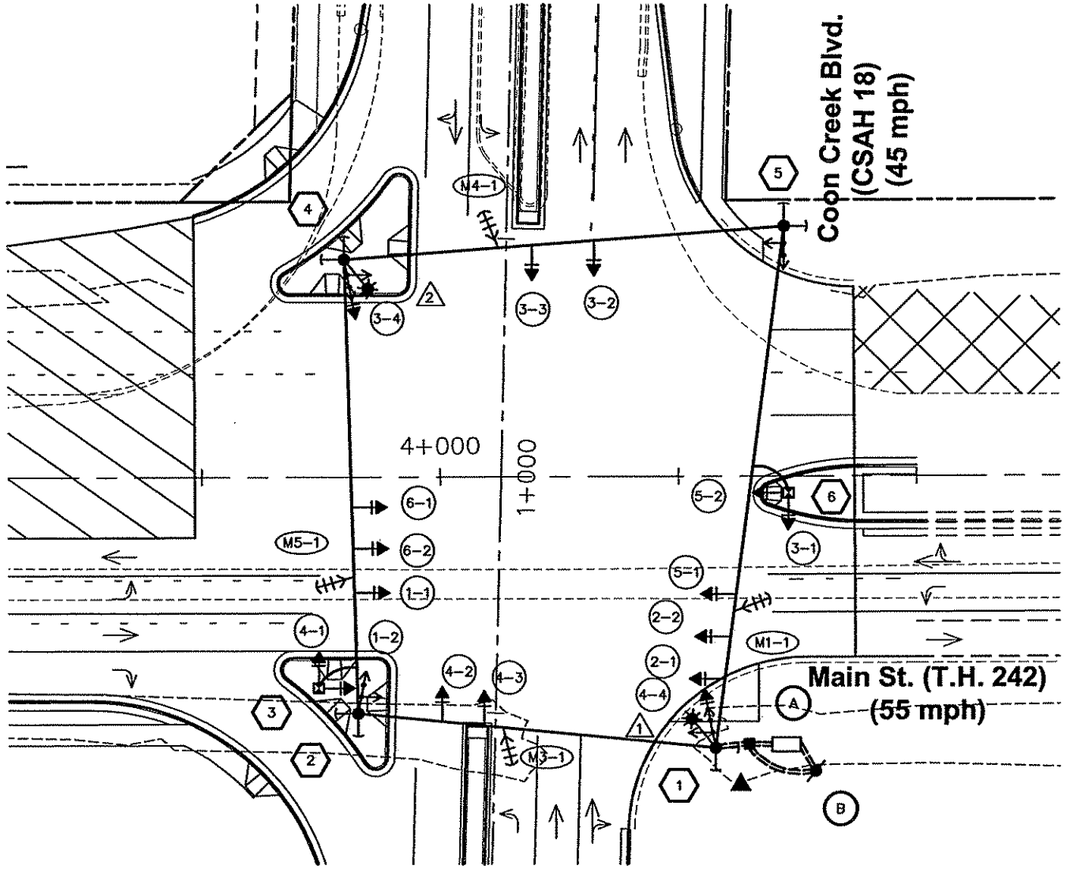
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

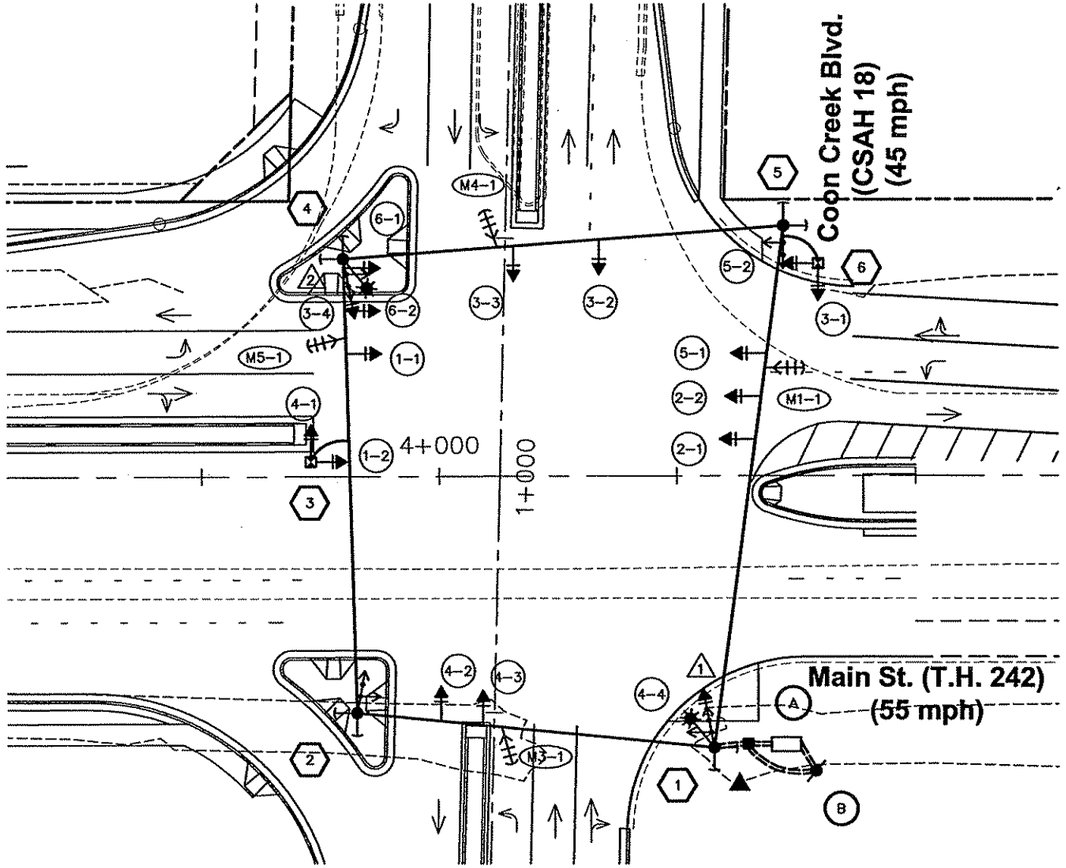
SHEET NO. 366 / 539

PLOT DATE: Apr 22, 04 11:45am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\c_amp.dwg

F DRAWNGS
31
3S1
21
2S1
SIG
-F
HL
ESUm
-ALI

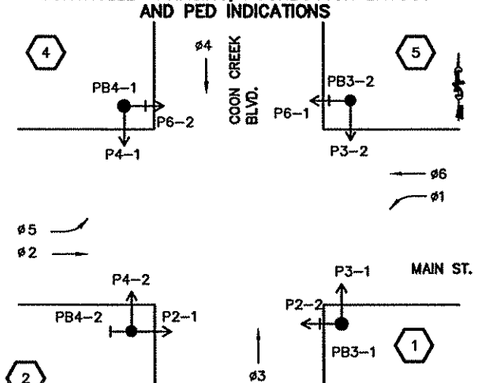


PHASE 2 LAYOUT



PHASE 3 LAYOUT

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

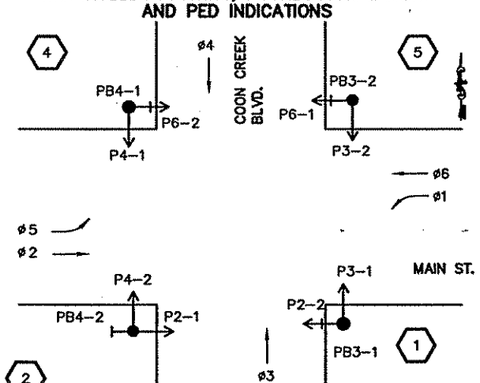
ALL INDICATIONS SHALL BE 300 mm

SIGNAL FACE	R	Y	G	R	Y	G
1-1, 1-2				←	←	←
2-1, 2-2	●	●	●			
3-1, 3-2	●	●	●			
3-3, 3-4	●				←	←
4-1, 4-2	●	●	●			
4-3, 4-4	●				←	←
5-1, 5-2				←	←	←
6-1, 6-2	●	●	●			

NORTH

0 5 10
SCALE IN METERS

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

SIGNAL FACE	R	Y	G	R	Y	G
1-1, 1-2				←	←	←
2-1, 2-2	●	●	●			
3-1, 3-2	●	●	●			
3-3, 3-4	●				←	←
4-1, 4-2	●	●	●			
4-3, 4-4	●				←	←
5-1, 5-2				←	←	←
6-1, 6-2	●	●	●			

NORTH

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: COONTEMP
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM BRW R UP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION TEMPORARY TRAFFIC SIGNAL SYSTEM "H"

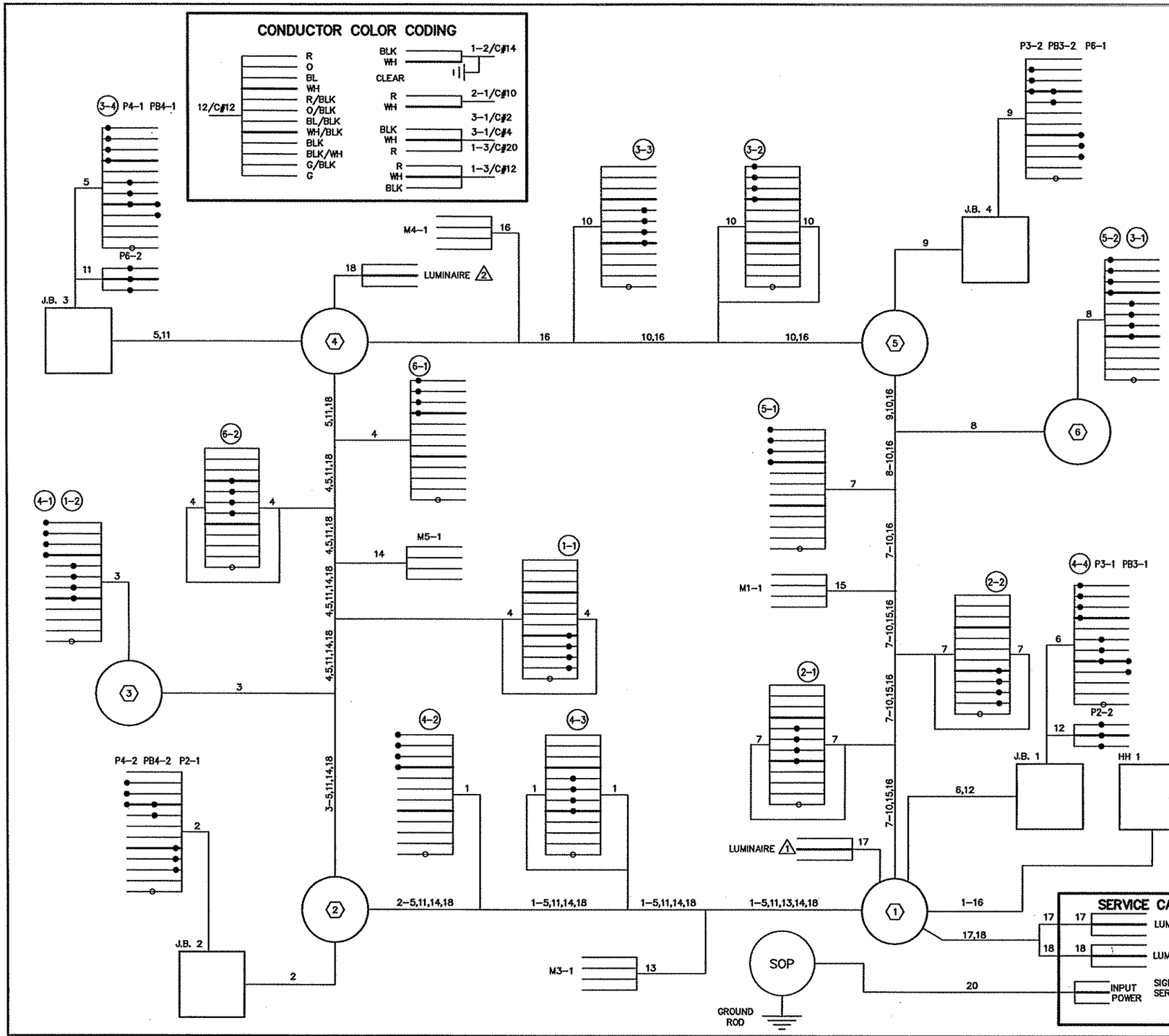
MAIN ST. (T.H. 242) / COON CREEK BLVD.
SIGNAL STAGING LAYOUT

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 367 / 539

PLOT DATE: Apr 22, J4 11:45am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\c emp.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/6/2000	UPDATED MICROWAVE VEHICLE DETECTOR CONTROLLER CABINET WIRING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: COONTEMP
DATE: DECEMBER 21, 1999

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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DATE: 12/21/99 MINN. REG. NO. 26781

MAIN STREET/T.H. 242 RECONSTRUCTION TEMPORARY TRAFFIC SIGNAL SYSTEM "H"

MAIN ST. (T.H. 242) / COON CREEK BLVD.
FIELD WIRING DIAGRAM

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 368 / 539

PLOT DATE: Apr 24, 04 11:45am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\

REF DRAWINGS
PLNW
MHETO
-ESUM
-ALIW
STRIPE
GBASE

LOOP DETECTORS (NMC)

NUMBER	SIZE (m)	LOCATION (m)	FUNCTION	STATUS
D1-1, D1-2	4-1.7 X 1.7	1.5,6,10.5,15	1	F & I
D2-1	3-1.7 X 1.7	101	1	INPLACE
D3-1	4-1.7 X 1.7	AS SHOWN	1	INPLACE
D4-1	3-1.7 X 1.7	101	1	INPLACE
D5-1, D5-2	4-1.7 X 1.7	AS SHOWN	1	INPLACE
D6-1,D6-2	1.7 X 1.7	92	1	F & I
D7-1, D7-2	4-1.7 X 1.7	AS SHOWN	1	INPLACE
D8-1	2-1.7 X 1.7	101	1	INPLACE

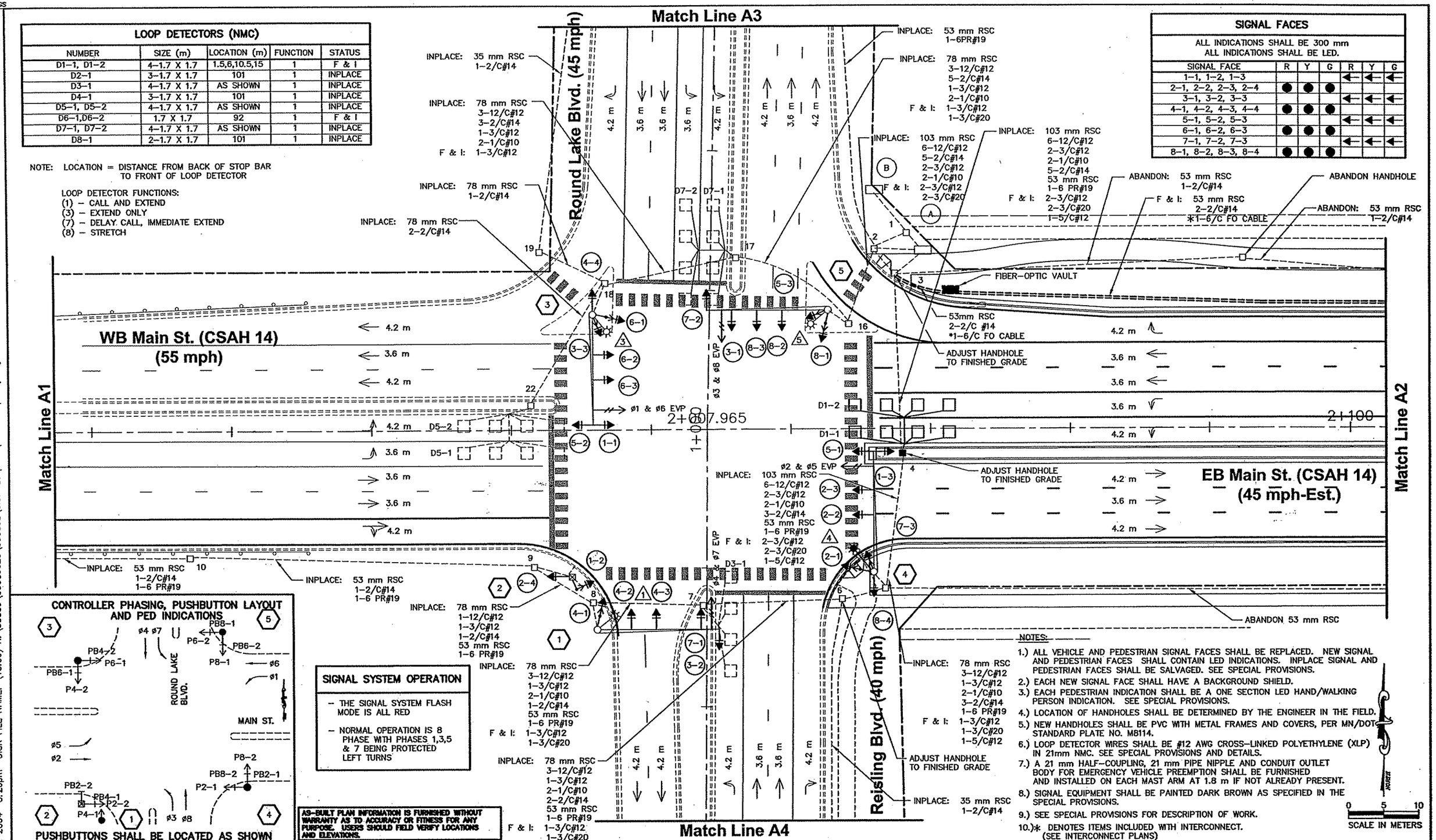
NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

LOOP DETECTOR FUNCTIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – DELAY CALL, IMMEDIATE EXTEND
(8) – STRETCH

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm
ALL INDICATIONS SHALL BE LED.

SIGNAL FACE	R	Y	G	R	Y	G
1–1, 1–2, 1–3				←	←	←
2–1, 2–2, 2–3, 2–4	●	●	●			
3–1, 3–2, 3–3				←	←	←
4–1, 4–2, 4–3, 4–4	●	●	●			
5–1, 5–2, 5–3				←	←	←
6–1, 6–2, 6–3	●	●	●			
7–1, 7–2, 7–3				←	←	←
8–1, 8–2, 8–3, 8–4	●	●	●			



CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS

PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED
- NORMAL OPERATION IS 8 PHASE WITH PHASES 1,3,5 & 7 BEING PROTECTED LEFT TURNS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:

1.) ALL VEHICLE AND PEDESTRIAN SIGNAL FACES SHALL BE REPLACED. NEW SIGNAL AND PEDESTRIAN FACES SHALL CONTAIN LED INDICATIONS. INPLACE SIGNAL AND PEDESTRIAN FACES SHALL BE SALVAGED. SEE SPECIAL PROVISIONS.
2.) EACH NEW SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
3.) EACH PEDESTRIAN INDICATION SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
4.) LOCATION OF HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
5.) NEW HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
6.) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS–LINKED POLYETHYLENE (XLP) IN 21mm NMC. SEE SPECIAL PROVISIONS AND DETAILS.
7.) A 21 mm HALF–COUPLING, 21 mm PIPE NIPPLE AND CONDUIT OUTLET BODY FOR EMERGENCY VEHICLE PREEMPTION SHALL BE FURNISHED AND INSTALLED ON EACH MAST ARM AT 1.8 m IF NOT ALREADY PRESENT.
8.) SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
9.) SEE SPECIAL PROVISIONS FOR DESCRIPTION OF WORK.
10.)* DENOTES ITEMS INCLUDED WITH INTERCONNECT. (SEE INTERCONNECT PLANS)

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/6/2000	UPDATED NOTES
2	JRN	1/6/2000	UPDATED SIGNAL SYSTEM OPERATION
3	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 0–LAY
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–9700 (TEL)
(612)370–1378 (FAX)

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Robert J. Green
DATE: 12/5/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
REVISE TRAFFIC SIGNAL SYSTEM "A"
MAIN ST. (CSAH 14) / ROUND LAKE/REISLING BLVD. INTERSECTION LAYOUT

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 369 / 539

PLOT DATE: Apr 30, 2004 3:26pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS_main\As-Built\0-lay.dwg

F DRAWINGS

LNW
HETO
ESUM
ALIW
TRIPE
BASE

PLOT DATE: Apr 30, 2004 3:30pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\mdin\As-Built\0-lay2.dwg

(1) INPLACE: TYPE A100–A–16.8–D12.2–2.7(DAVIT AT 350°)
TYPE A100 POLE FOUNDATION
SPECIAL LUMINAIRE – 250 W HPS
SALVAGE: 4–ONE WAY SIGNALS OVERHEAD
TYPE 10B POLE MOUNTED AT 270°
F & I: 4–ONE WAY SIGNALS OVERHEAD
TYPE 10B POLE MOUNTED AT 270°
ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (ø4 & ø7)
(1.8 m FROM END OF MAST ARM)

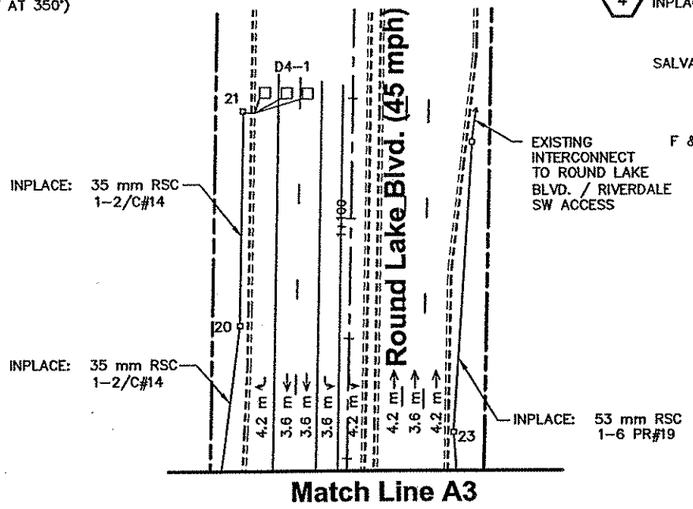
EXTEND INTO HH 8:
INPLACE: 78 mm RSC
2–12/C#12
2–1/C#10
F & I: 1–3/C#12
1–3/C#20

(2) INPLACE: 3 m PEDESTAL POLE AND BASE
PEDESTAL FOUNDATION
2 – PEDESTRIAN PUSH BUTTONS
SALVAGE: TYPE 2B PEDESTAL MOUNTED
PEDESTRIAN PB SIGNS
F & I: TYPE 2B PEDESTAL MOUNTED

INPLACE: EXTEND INTO HH 9:
78 mm RSC
1–12/C#12
1–3/C#12

(3) INPLACE: TYPE A100–A–15.2–D12.2–2.7 (DAVIT AT 350°)
TYPE A100 POLE FOUNDATION
SPECIAL LUMINAIRE – 250W HPS
2 – PEDESTRIAN PUSHBUTTONS
SALVAGE: 4–ONE WAY SIGNALS OVERHEAD
PEDESTRIAN PB SIGNS
TYPE 10A POLE MOUNTED AT 180°
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
F & I: ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (ø1 & ø6)
(1.8 m FROM END OF MAST ARM)
1–TWO WAY SIGNAL OVERHEAD
2–ONE WAY SIGNAL OVERHEAD
(6.2 m & 9.8 m)
TYPE 10A POLE MOUNTED AT 180°
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°

EXTEND INTO HH 18:
INPLACE: 78 mm RSC
3–12/C#12
2–1/C#10
1–3/C#12
F & I: 1–3/C#12
1–3/C#20

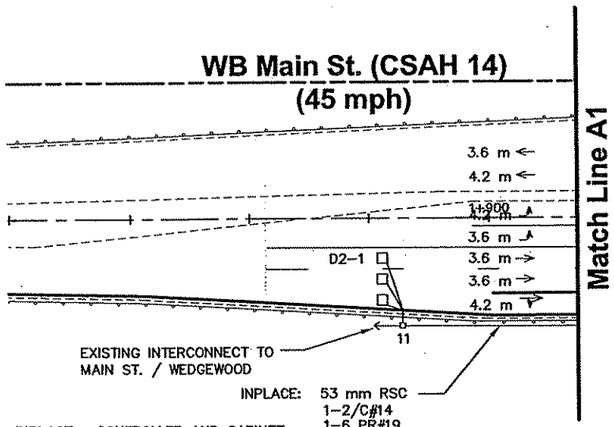


(4) INPLACE: TYPE A100–A–16.8
TYPE A100 POLE FOUNDATION
SPECIAL LUMINAIRE – 250W HPS
2 – PEDESTRIAN PUSHBUTTONS
SALVAGE: 3 – ONE WAY SIGNALS OVERHEAD
PEDESTRIAN PB SIGNS
TYPE 10A POLE MOUNTED AT 180°
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
F & I: 2 – ONE WAY SIGNALS OVERHEAD (4.9 m & 8.5 m)
1–TWO WAY SIGNAL OVERHEAD
LUMINARE EXTENSION D12.2–2.7 (DAVIT AT 350°)
LUMINARE – 250W HPS
TYPE 10A POLE MOUNTED AT 180°
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (ø2 & ø5)
(1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 5:
INPLACE: 78 mm RSC
3–12/C#12
4–1/C#10
1–3/C#12
F & I: 1–3/C#12
1–3/C#20
1–5/C#12

(5) INPLACE: TYPE A100–A–16.8–D12.2–2.7 (DAVIT AT 350°)
TYPE A100 POLE FOUNDATION
SPECIAL LUMINAIRE – 250W HPS
2 – PEDESTRIAN PUSHBUTTONS
SALVAGE: 4 – ONE WAY SIGNALS OVERHEAD
PEDESTRIAN PB SIGNS
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
F & I: 4 – ONE WAY SIGNALS OVERHEAD
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (ø3 & ø8)
(1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 16:
INPLACE: 78 mm RSC
3–12/C#12
4–1/C#10
1–3/C#12
F & I: 1–3/C#12
1–3/C#20



(A) INPLACE: CONTROLLER AND CABINET
CABINET FOUNDATION

EXTEND INTO HH 1:
METERED SIGNAL SERVICE
INPLACE: 35 mm RSC
3–1/C#6

EXTEND INTO HH 2:
INPLACE: 103 mm RSC
6–12/C#12
5–2/C#14
2–3/C#12
1–6 PR#19
F & I: 2–3/C#12
2–3/C#20

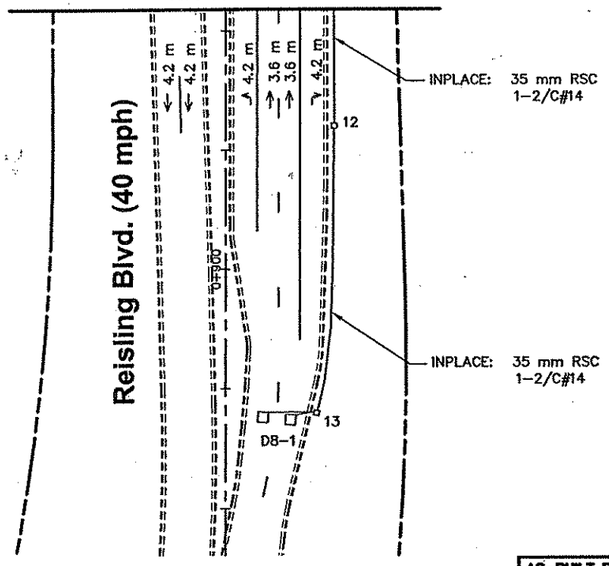
EXTEND INTO HH 3:
INPLACE: 103 mm RSC
6–12/C#12
6–2/C#14
2–3/C#12
1–6 PR#19
REMOVE: 1–2/C#14
F & I: 2–3/C#12
2–3/C#20
2–2/C#14
1–5/C#12
∗1–6/C FO CABLE

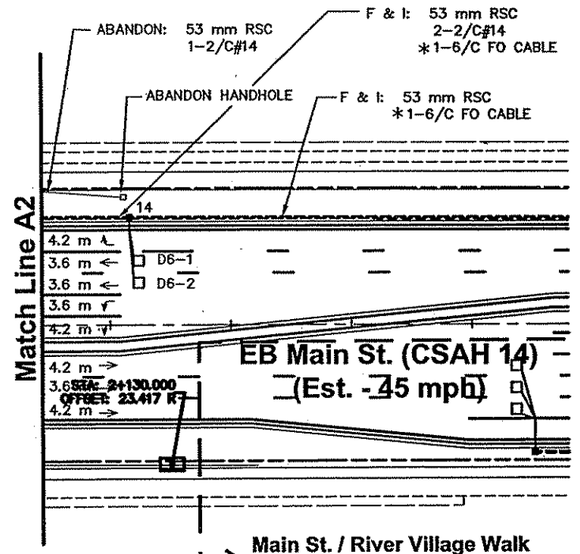
(B) INPLACE: SERVICE CABINET
CABINET FOUNDATION
INPLACE: 53 mm RSC TO SERVICE

EXTEND INTO HH 1:
METERED SIGNAL SERVICE
INPLACE: 35 mm RSC
3–1/C#6
UNMETERED LIGHTING SERVICE
INPLACE: 35 mm RSC
4–1/C#10

BETWEEN HH 1 AND HH 2:
INPLACE: 53 mm RSC
4–1/C#10

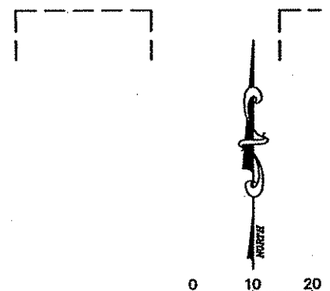
BETWEEN HH 2 AND HH 3:
INPLACE: 53 mm RSC
2–1/C#10





∗ DENOTES ITEMS INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/7/2000	UPDATED LOCATION OF LOOPS D8–1 & D8–2
2	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 0–LAY2
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

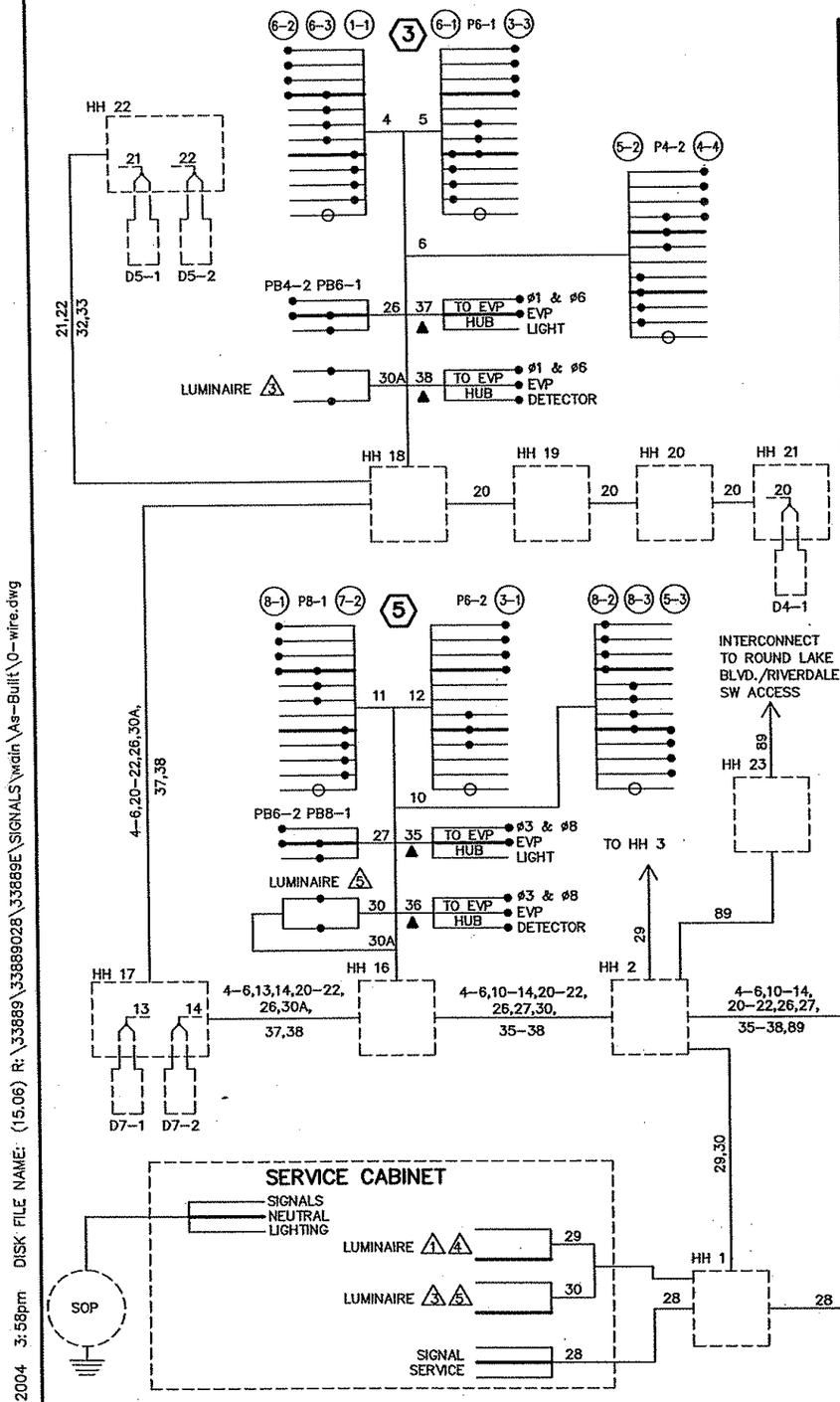
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Robert J. Gruen
DATE: 12/21/99 MINN. REG. NO. 22793

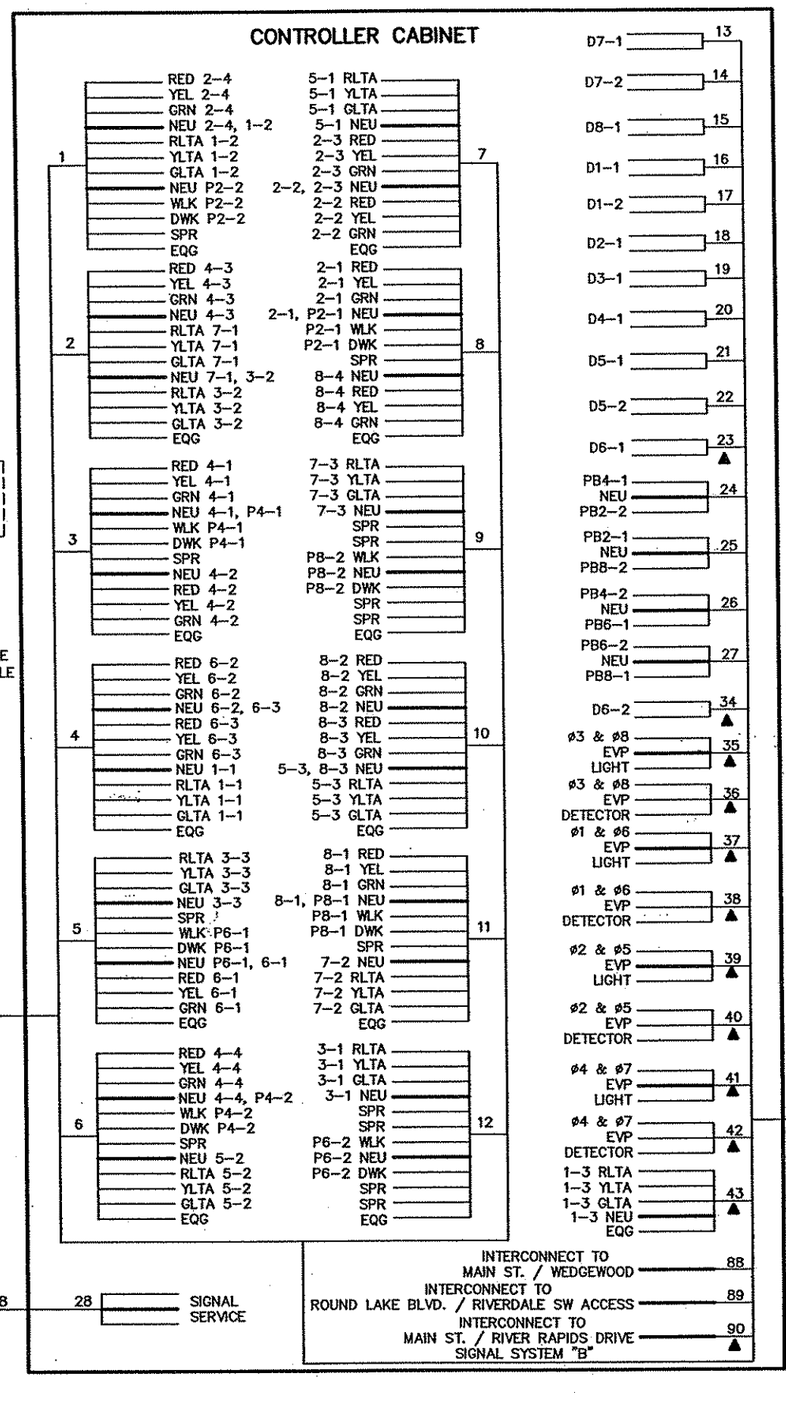
MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "A"
MAIN ST. (CSAH 14) / ROUND LAKE/REISLING BLVD.
INTERSECTION LAYOUT (MATCH LINES)

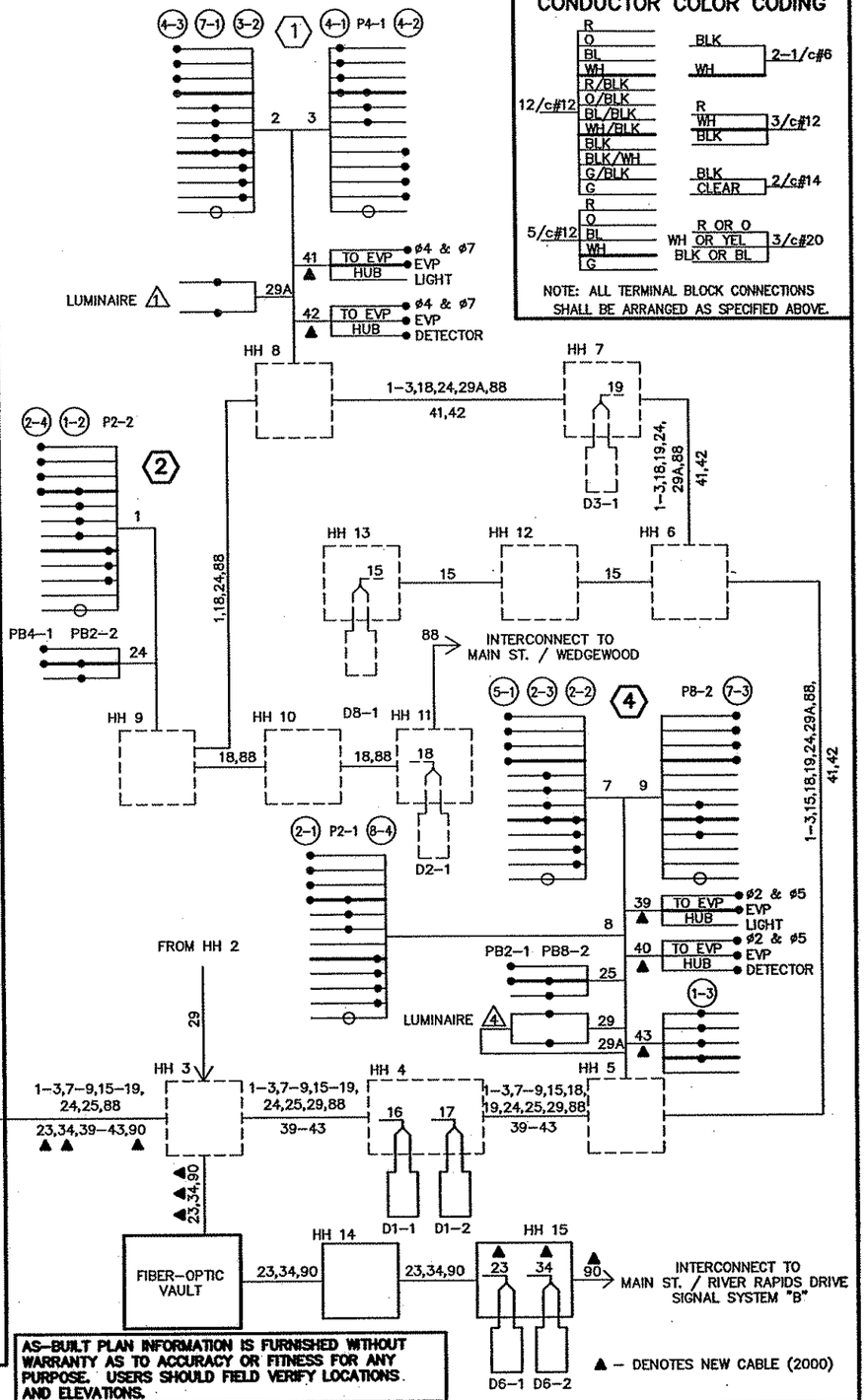
CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 370 / 539







CONDUCTOR COLOR CODING

12/c#12	R, O, BL, WH, R/BLK, O/BLK, BL/BLK, WH/BLK, BLK, BLK/WH, G/BLK, G	BLK, WH	2–1/c#6
		R, WH, BLK	3/c#12
		BLK, CLEAR	2/c#14
5/c#12	R, O, BL, WH, G	R OR O, WH OR YEL, BLK OR BL	3/c#20

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

▲ – DENOTES NEW CABLE (2000)

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 0–WIRE
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Robert J. Grem

DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
REVISE TRAFFIC SIGNAL SYSTEM "A"
MAIN ST. (CSAH 14) / ROUND LAKE/REISLING BLVD.
FIELD WIRING DIAGRAM

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 371 / 539

PLOT DATE: Jul 06, 2004 3:58pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As–Built\0–wire.dwg

F DRAWINGS

OX
-ESUM
'LNW
-ALIW
TRIPE
BASE

LOOP DETECTORS (NMC)			
NUMBER	SIZE (m)	LOCATION (m)	FUNCTION
D1–1	2 – 1.7 X 1.7	3 & 12	1
D1–2	2 – 1.7 X 1.7	3 & 12	1
D2–1, D2–2, D2–3	1.7 X 1.7	92	1
D3–1	2 – 1.7 X 1.7	3 & 12	1
D3–2	1.7 X 1.7	3	1
D4–1	1.7 X 1.7	37	3 & 8
D4–2	1.7 X 3.4	AS SHOWN	7
D4–3	2 – 1.7 X 1.7	AS SHOWN	1
D5–1	2 – 1.7 X 1.7	3 & 12	1
D5–2	2 – 1.7 X 1.7	3 & 12	1
D6–1, D6–2, D6–3	1.7 X 1.7	92	1
D7–1	2–1.7 X 1.7	3 & 12	1
D8–1	2–1.7 X 1.7	37	3 & 8
D8–2	1.7 X 3.4	AS SHOWN	7
D8–3	2–1.7 X 1.7	AS SHOWN	1

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

SIGNAL FACES						
ALL INDICATIONS SHALL BE 300 mm ALL INDICATIONS SHALL BE LED.						
SIGNAL FACE	R	Y	G	R	Y	G
1–1, 1–2,1–3				←	←	←
2–1, 2–2, 2–3	●	●	●			
3–1, 3–2				←	←	←
4–1, 4–2, 4–3	●	●	●			
5–1, 5–2, 5–3				←	←	←
6–1, 6–2, 6–3	●	●	●			
7–1, 7–2				←	←	←
8–1, 8–2, 8–3	●	●	●			

LOOP DETECTOR FUNCTIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – DELAY CALL, IMMEDIATE EXTEND
(8) – STRETCH

Match Line B3

River Rapids Drive (30 mph)

35 mm RSC
1–2/C#14

103 mm RSC
4–12/C#12
3–3/C#12
1–3/C#20
1–3/C#12 (LUM)
3–2/C#14

103 mm RSC
4–12/C#12
3–3/C#12
1–3/C#20
1–3/C#12 (LUM)
4–2/C#14

2–78 mm RSC
6–12/C#12
7–3/C#12
2–3/C#20
2–3/C#12 (LUM)
7–2/C#14

53 mm RSC
3–2/C#14

*53 mm RSC
*1–6/C FO CABLE

*102

*78 mm RSC
*1–6/C FO CABLE

WB Main St. (CSAH 14)
(Est. - 45 mph)

EB Main St. (CSAH 14)
(Est. - 45 mph)

Match Line B1

Match Line B2

Match Line B4

ø1 & ø6 EVP

ø2 & ø5 EVP

ø3 & ø8 EVP

ø4 & ø7 EVP

D4–2 D4–3

D5–1 D5–2

D1–1 D1–2

D7–1

D8–1 D8–2 D8–3

D3–1 D3–2

2+380

1+

2+40

4.2 m
3.6 m

53 mm RSC
2–3/C#12
2–3/C#12 (LUM)

78 mm RSC
1–3/C#12
5–2/C#14
*1–6/C FO CABLE

78 mm RSC
1–3/C#12
2–2/C#14
*1–6/C FO CABLE

103 mm RSC
2–12/C#12
5–3/C#12
1–3/C#20
1–3/C#12 (LUM)
5–2/C#14
*1–6/C FO CABLE

78 mm RSC
*1–6/C FO CABLE

53 mm RSC
*1–6/C FO CABLE

53 mm RSC
*1–6/C FO CABLE

FIBER–OPTIC VAULT

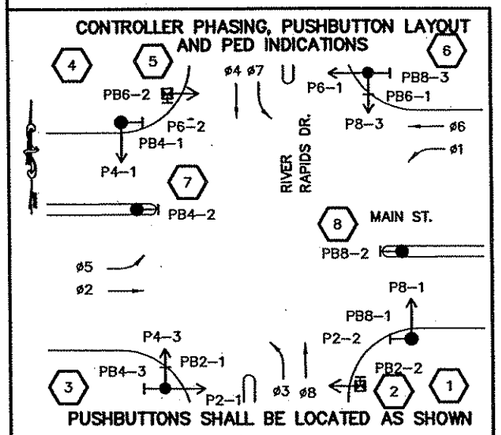
103 mm RSC
2–12/C#12
5–3/C#12
1–3/C#20
1–3/C#12 (LUM)
7–2/C#14
*1–6/C FO CABLE

53 mm RSC
1–2/C#14

TRANSFORMER PAD (BY OTHERS)

LIGHTING CABINET (SEE LIGHTING PLAN)

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

– THE SIGNAL SYSTEM FLASH MODE IS ALL RED.

– NORMAL OPERATION IS 8 PHASE WITH PHASES 1, 3, 5 & 7 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.

– PHASES 2 & 6 SHALL BE ON VEHICLE RECALL.

METER ADDRESS:
MAIN ST. / RIVER RAPIDS DR.
SOUTHEAST QUADRANT

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:

1.) SEE SPECIAL PROVISIONS FOR ANOKA COUNTY FURNISHED MATERIALS.
2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
3.) ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
4.) EACH PEDESTRIAN SIGNAL FACE SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
5.) LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
6.) HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
7.) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS–LINKED POLYETHYLENE (XLP) IN 21 mm NMC. SEE SPECIAL PROVISIONS AND DETAILS.
8.) A 21 mm HALF–COUPLING, 21 mm PIPE NIPPLE AND CONDUIT OUTLET BODY FOR EMERGENCY VEHICLE PREEMPTION SHALL BE FURNISHED AND INSTALLED ON EACH MAST ARM AT 1.8 m FROM END OF MAST ARM.
9.) SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
10.) SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
11.)* DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).
12.) REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "B".

SCALE IN METERS 0 5 10

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	UPDATED NOTES
2	JRN	1/13/2000	MOVED POLES 2, 3, 5 & 6
3	JRN	1/13/2000	UPDATED CONTROLLER PHASING
4	JRN	1/13/2000	UPDATED HANDHOLE NUMBERING
5	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 1–LAY
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
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MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
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Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "B"
MAIN ST. (CSAH 14) / RIVER RAPIDS DRIVE
INTERSECTION LAYOUT

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 372 / 539

PLOT DATE: Jul 13, 2004 8:18am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As–Built\1–lay.dwg

EF DRAWINGS

-AL1W
-ESUM
:TRIPE
GBASE
PLNW

(1) TYPE PA100 POLE FOUNDATION
TYPE PA100–A–16.8–X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
1 – TWO WAY SIGNAL OVERHEAD (0 m)
2 – ONE WAY SIGNALS OVERHEAD
(6.9 m & 10.5 m FROM END OF MAST ARM)
1 – TYPE 10A POLE MOUNTED AT 180°
1 – TYPE 10B POLE MOUNTED AT 90°
1 – PEDESTRIAN PUSHBUTTON
INTERNALLY ILLUMINATED SIGN (D–2) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø2 & ø5) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 1:
78 mm RSC
3–12/C#12
3–3/C#12
1–3/C#20
1–3/C#12 (LUM)

(2) PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
TYPE 1B
1 – PEDESTRIAN PUSHBUTTON

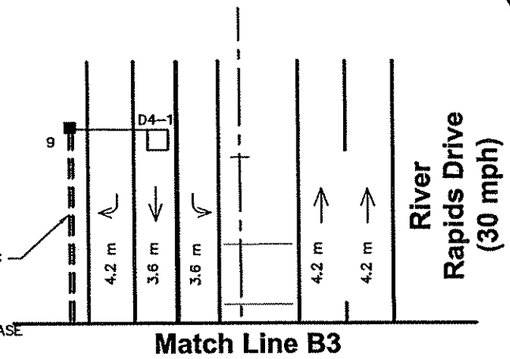
EXTEND INTO HH1
53 mm RSC
1–12/C#12
2–3/C#12

(3) TYPE PA100 POLE FOUNDATION
TYPE PA100–A–16.8–X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
2 – ONE WAY SIGNALS OVERHEAD (0 m &
6.9 m FROM END OF MAST ARM)
2 – TYPE 10B POLE MOUNTED AT 90°& 180°
2 – PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D–1) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø4 & ø7) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 4:
78 mm RSC
2–12/C#12
4–3/C#12
1–3/C#20
1–3/C#12 (LUM)

(7) PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE & BASE
PEDESTRIAN PUSHBUTTON

EXTEND INTO HH 7:
53 mm RSC
1–3/C#12



(4) TYPE PA100 POLE FOUNDATION
TYPE PA100–A–16.8–X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
1 – TWO WAY SIGNAL OVERHEAD (0 m)
2 – ONE WAY SIGNALS OVERHEAD
(6.9 m & 10.5 m FROM END OF MAST ARM)
1 – TYPE 10A POLE MOUNTED AT 180°
1 – TYPE 10B POLE MOUNTED AT 90°
2 – PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D–2) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø1 & ø6) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 8:
78 mm RSC
3–12/C#12
3–3/C#12
1–3/C#20
1–3/C#12 (LUM)

(5) PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
TYPE 1B
1 – PEDESTRIAN PUSHBUTTON

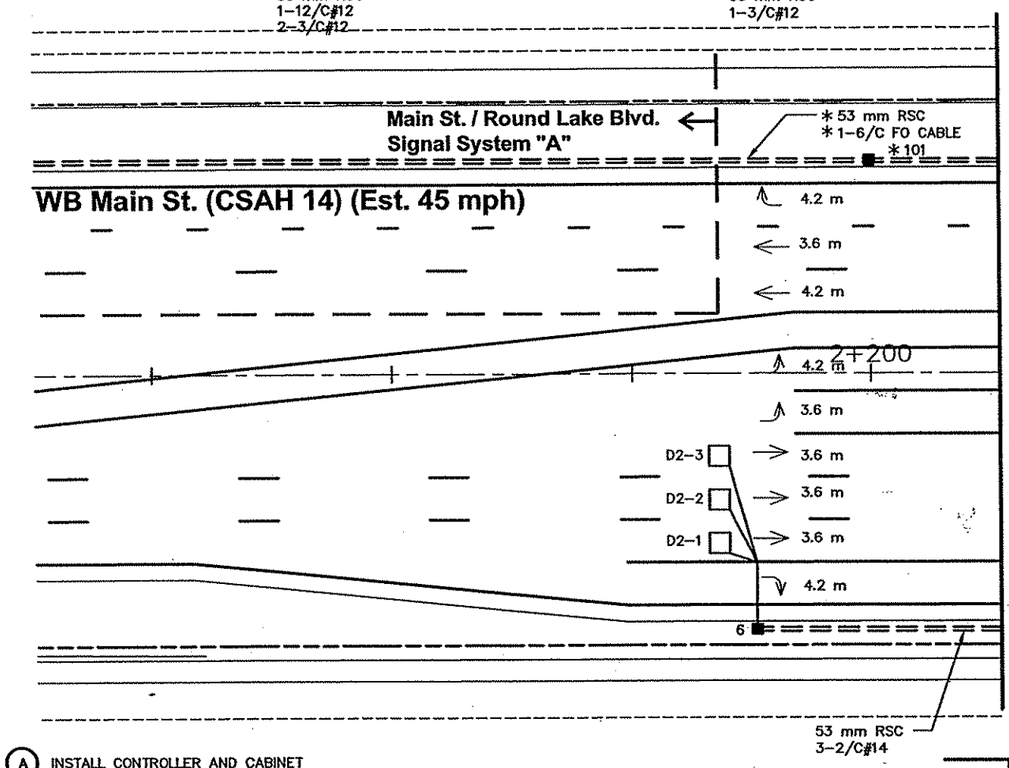
EXTEND INTO HH 8:
53 mm RSC
1–12/C#12
2–3/C#12

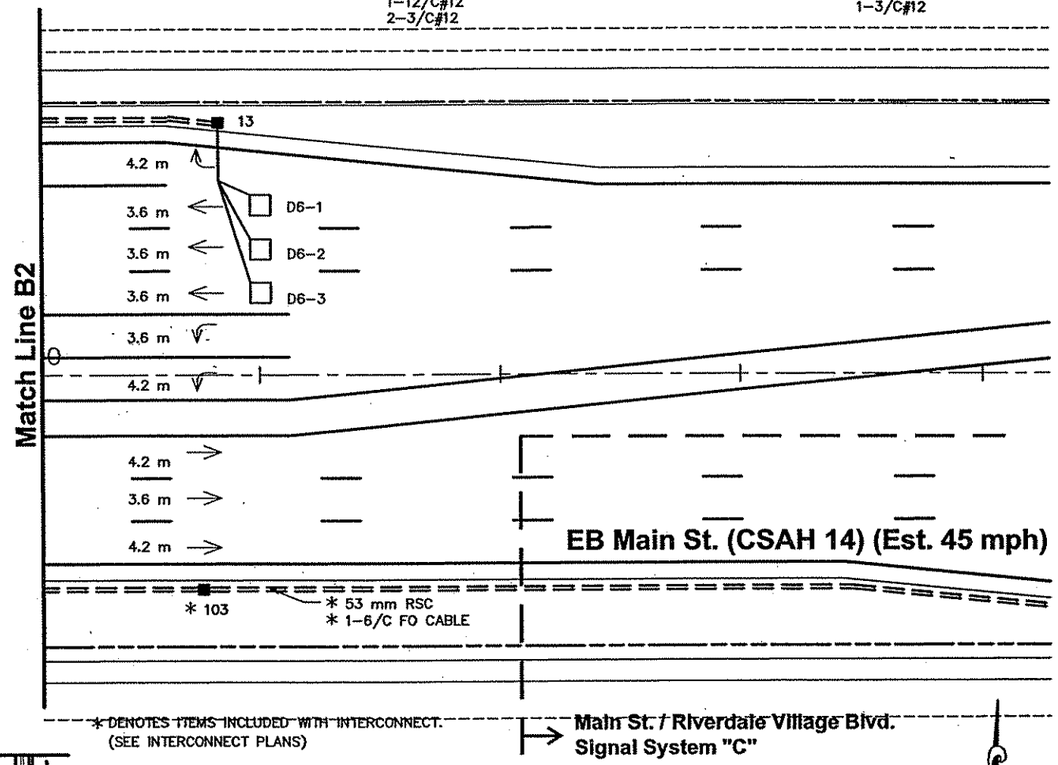
(6) TYPE PA100 POLE FOUNDATION
TYPE PA100–A–16.8–X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
2 – ONE WAY SIGNALS OVERHEAD (0 m &
6.9 m FROM END OF MAST ARM)
2 – TYPE 10B POLE MOUNTED AT 90°& 180°
1 – PEDESTRIAN PUSHBUTTON
INTERNALLY ILLUMINATED SIGN (D–1) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø3 & ø8) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 12:
78 mm RSC
2–12/C#12
4–3/C#12
1–3/C#20
1–3/C#12 (LUM)

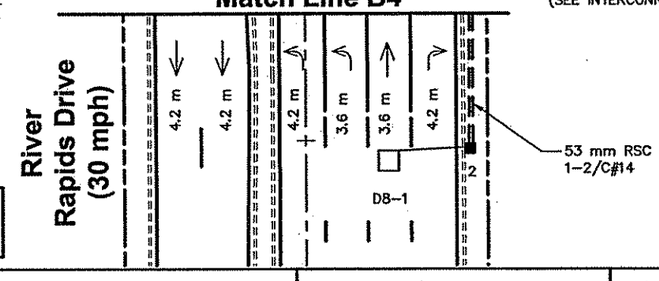
(8) PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE & BASE
PEDESTRIAN PUSHBUTTON

EXTEND INTO HH 14:
53 mm RSC
1–3/C#12





Match Line B4



* DENOTES ITEMS INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)

Main St. / Riverdale Village Blvd.
Signal System "C"

(A) INSTALL CONTROLLER AND CABINET
(FURNISHED BY ANOKA COUNTY)
CABINET FOUNDATION

EXTEND INTO HH 15:
2–78 mm RSC
6–12/C#12
6–3/C#12
2–3/C#20
9–2/C#14

EXTEND INTO HH 1:
2–78 mm RSC
6–12/C#12
6–3/C#12
2–3/C#20
10–2/C#14

EXTEND INTO HH 16:
METERED SIGNAL SERVICE
35 mm RSC
3–1/C#6

EXTEND TO
FIBER–OPTIC VAULT:
78 mm RSC
*1–6/C FO CABLE

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(B) SERVICE CABINET
CABINET FOUNDATION

EXTEND INTO HH 16:
METERED SIGNAL SERVICE
35 mm RSC
3–1/C#6

53 mm RSC TO WEST
(FOR POWER BY CONNEXUS)

EXTEND INTO HH 15:
53 mm RSC
UNMETERED STREET LIGHT SERVICE
4–3/C#12 (LUM)
UNMETERED ILLUMINATED SIGN SERVICE
4–3/C#12

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	CHANGED LENGTH OF POLES 3 & 6 TO 16.8
2	JRN	1/13/2000	UPDATED POLE AND CONTROLLER CABINET NOTES
3	JRN	1/13/2000	UPDATED CONNECTION FOR POWER
4	JRN	1/13/2000	UPDATED HANDHOLE NUMBERING
5	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 1–LAY2
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "B"
MAIN ST. (CSAH 14) / RIVER RAPIDS DRIVE
INTERSECTION LAYOUT (MATCH LINES)

CITY PROJECT 98–20

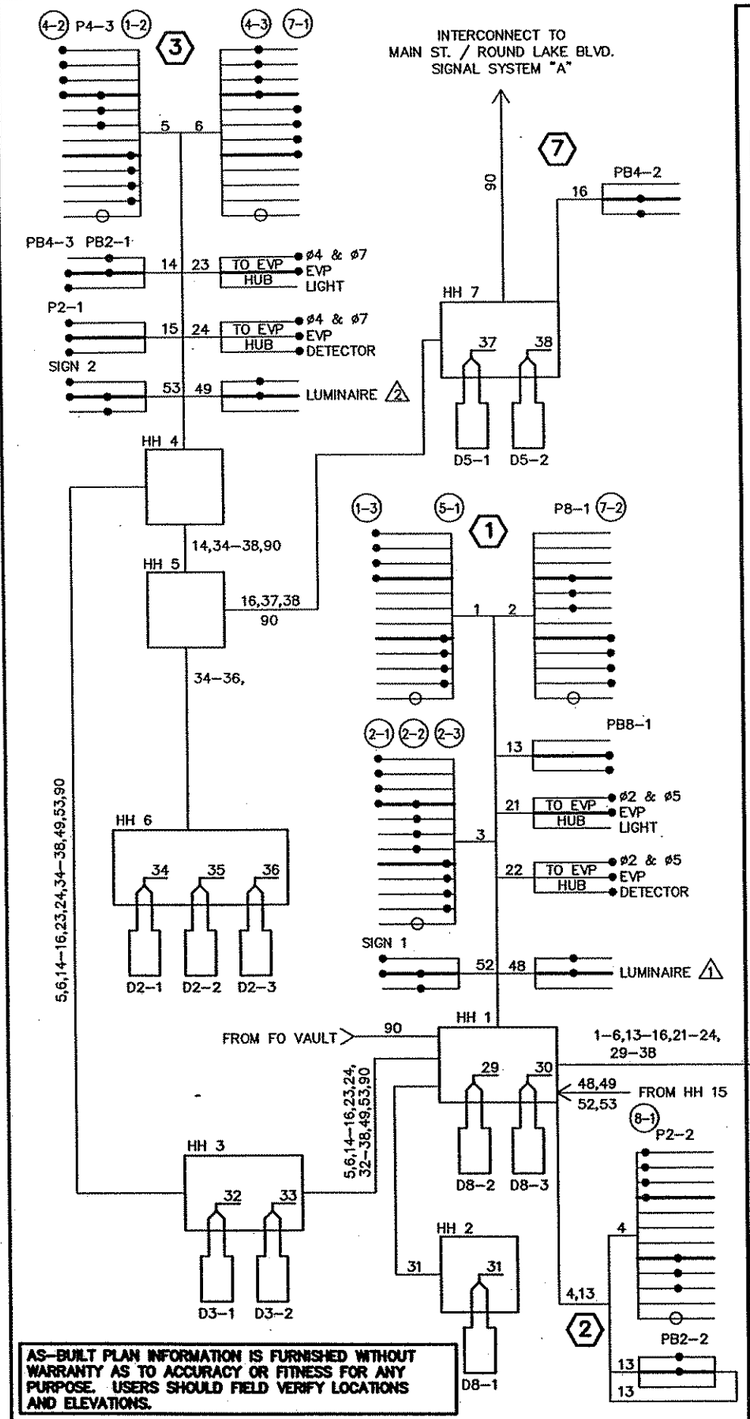
S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

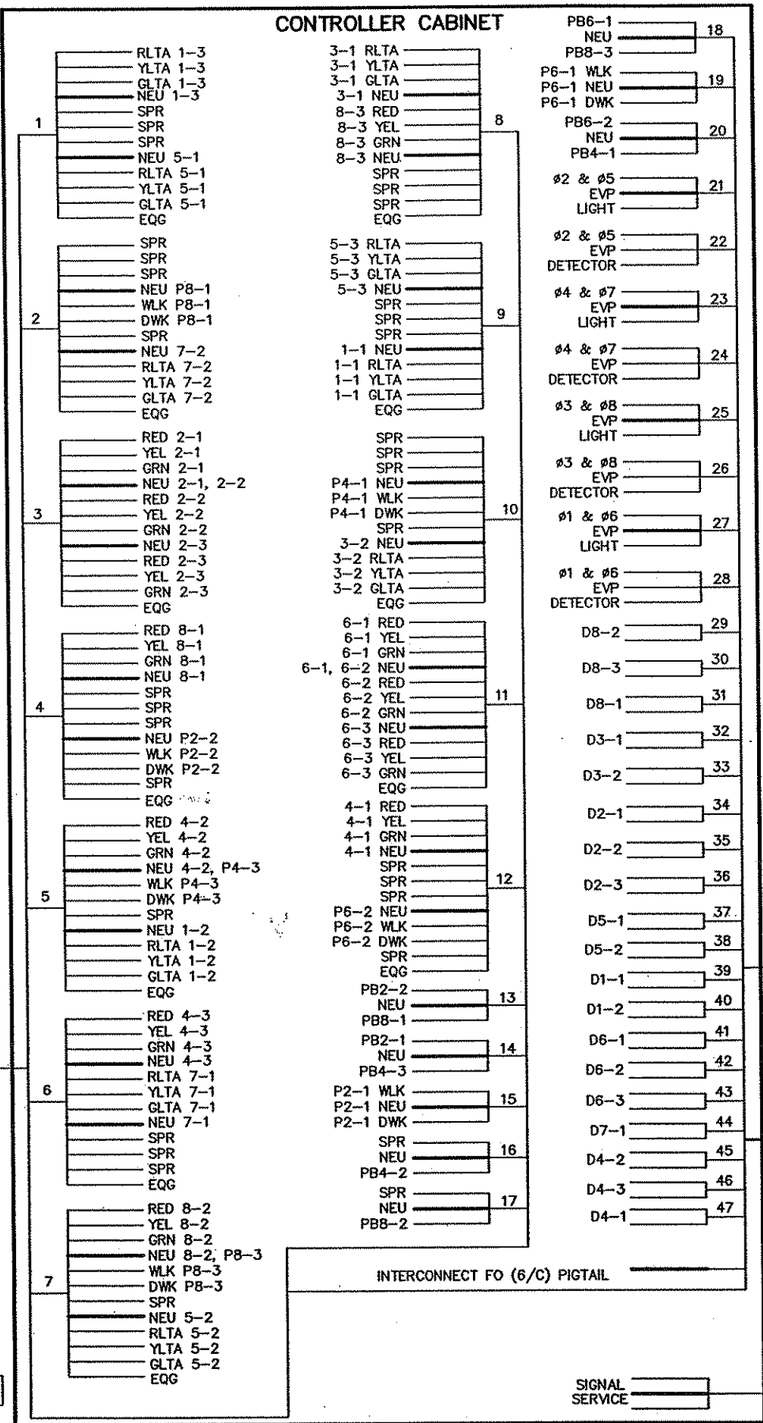
SHEET NO. 373 / 539

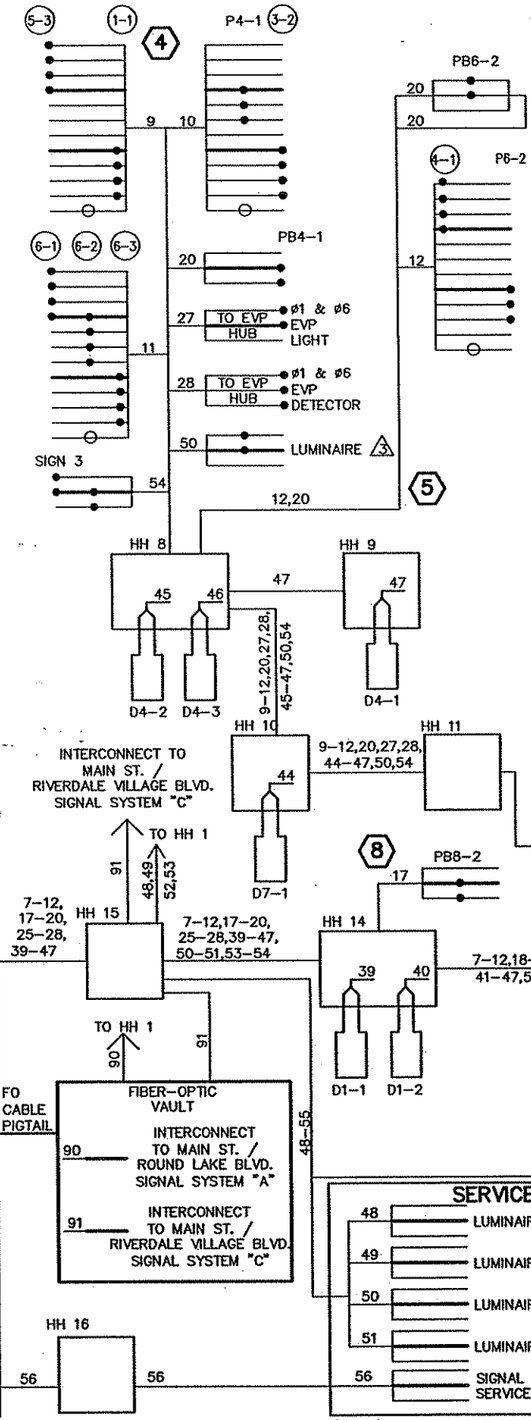
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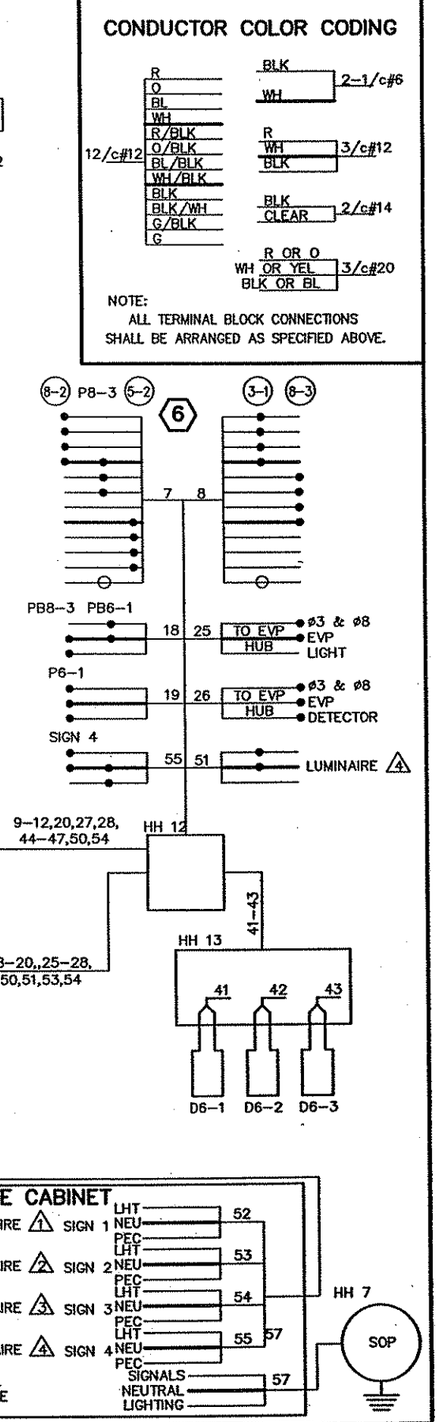
F DRAWINGS

OX









CONDUCTOR COLOR CODING

12/c#12	R, O, BL, WH, R/BLK, O/BLK, BL/BLK, WH/BLK, BLK, BLK/WH, G/BLK, G	BLK, WH — 2-1/c#6
		R, WH, BLK — 3/c#12
		BLK, CLEAR — 2/c#14
		R OR O, WH OR YEL, BLK OR BL — 3/c#20

NOTE:
ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	RENUMBERED CABLES
2	JRN	1/13/2000	UPDATED HANDHOLE NUMBERING
3	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 1-WIRE
DATE: DECEMBER 21, 1999

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Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "B"
MAIN ST. (CSAH 14) / RIVER RAPIDS DRIVE
FIELD WIRING DIAGRAM

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 12Z - 02

SHEET NO. 374 / 539

PLOT DATE: Jul 13, 2004 8:41am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Mwn\As-Built\1-wire.dwg

F DRAWINGS

ESUM
AL IW
TRIPE
BASE
LNW

LOOP DETECTORS			
NUMBER	SIZE (m)	LOCATION (m)	FUNCTION
D1–1	1.7 X 1.7	3,12	1
D1–2	1.7 X 1.7	3,12	1
D2–1, D2–2, D2–3	1.7 X 1.7	92	1
D3–1	2–1.7 X 1.7	3,12	1
D3–2	2–1.7 X 1.7	3,12	1
D4–1	2–1.7 X 1.7	INPLACE (38)	3 & 8
D4–2	1.7x1.7,3.4x1.7	AS SHOWN	7
D4–3	2–1.7 X 1.7	AS SHOWN	1
D5–1	2–1.7 X 1.7	3,12	1
D5–2	2–1.7 X 1.7	3,12	1
D6–1, D6–2, D6–3	1.7 X 1.7	92	1
D7–1	2–1.7 X 1.7	3,12	1
D7–2	2–1.7 X 1.7	3,12	1
D8–1	2–1.7 X 1.7	INPLACE (38)	3 & 8
D8–2	1.7x1.7,3.4x1.7	AS SHOWN	7
D8–3	2–1.7 X 1.7	AS SHOWN	1

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

SIGNAL FACES						
ALL INDICATIONS SHALL BE 300 mm ALL INDICATIONS SHALL BE LED.						
SIGNAL FACE	R	Y	G	R	Y	G
1–1, 1–2, 1–3				←	←	←
2–1, 2–2, 2–3	●	●	●			
3–1, 3–2				←	←	←
4–1, 4–2, 4–3	●	●	●			
5–1, 5–2, 5–3				←	←	←
6–1, 6–2, 6–3	●	●	●			
7–1, 7–2				←	←	←
8–1, 8–2, 8–3	●	●	●			

LOOP DETECTOR FUNCTIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – ~~DELAY CALL, IMMEDIATE EXTEND~~
(8) – STRETCH

Match Line C3

Riverdale Village Blvd. (30 mph)

WB Main St. (CSAH 14)
(Est. - 45 mph)

EB Main St. (CSAH 14)
(Est. - 45 mph)

Match Line C1

Match Line C2

Match Line C4

Riverdale Village Blvd. (30 mph)

2+600

1+000

2+700

103 mm RSC
4–12/C#12
3–3/C#12
1–3/C#20
1–3/C#12 (LUM)
3–2/C#14

103 mm RSC
4–12/C#12
3–3/C#12
1–3/C#20
1–3/C#12 (LUM)
5–2/C#14

2–78 mm RSC
6–12/C#12
7–3/C#12
2–3/C#20
2–3/C#12 (LUM)
8–2/C#14

2–78 mm RSC
6–12/C#12
8–3/C#12
2–3/C#20
2–3/C#12 (LUM)
10–2/C#14

53 mm RSC
3–2/C#14

53 mm RSC
2–3/C#12 (LUM)
2–3/C#12

53 mm RSC
3–2/C#14
∗1–6/C FO CABLE

78 mm RSC
1–3/C#12
5–2/C#14
∗1–6/C FO CABLE

78 mm RSC
1–3/C#12
2–2/C#14

103 mm RSC
2–12/C#12
5–3/C#12
1–3/C#20
1–3/C#12 (LUM)
5–2/C#14
∗1–6/C FO CABLE

103 mm RSC
2–12/C#12
5–3/C#12
1–3/C#20
1–3/C#12 (LUM)
7–2/C#14
∗1–6/C FO CABLE

53 mm RSC
∗1–6/C FO CABLE

∗53 mm RSC
∗1–6/C FO CABLE

53 mm RSC
*1–6/C FO CABLE

FIBER–OPTIC VAULT

ø1 & ø6 EVP

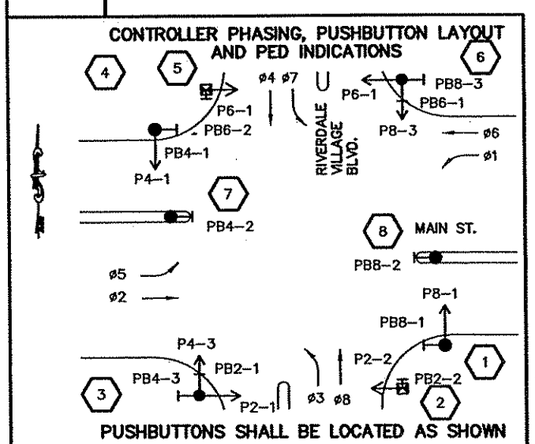
ø2 & ø5 EVP

ø3 & ø8 EVP

ø4 & ø7 EVP

D1–1 D1–2 D2–1 D2–2 D2–3 D3–1 D3–2 D4–1 D4–2 D4–3 D5–1 D5–2 D6–1 D6–2 D6–3 D7–1 D7–2 D8–1 D8–2 D8–3

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

– THE SIGNAL SYSTEM FLASH MODE IS ALL RED.

– NORMAL OPERATION IS 8 PHASE WITH PHASES 1, 3, 5 & 7 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.

– PHASES 2 & 6 SHALL BE ON VEHICLE RECALL.

METER ADDRESS:
MAIN ST. / RIVERDALE VILLAGE BLVD.
SOUTHEAST QUADRANT

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:
1.) SEE SPECIAL PROVISIONS FOR ANOKA COUNTY FURNISHED MATERIALS.
2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
3.) ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
4.) EACH PEDESTRIAN SIGNAL FACE SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
5.) LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
6.) HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
7.) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS–LINKED POLYETHYLENE(XLP) IN 21mm NMC, SEE SPECIAL PROVISIONS AND DETAILS.
8.) A 21 mm HALF–COUPLING, 21 mm PIPE NIPPLE AND CONDUIT OUTLET BODY FOR EMERGENCY VEHICLE PREEMPTION SHALL BE FURNISHED AND INSTALLED ON EACH MAST ARM AT 1.8 m FROM END OF MAST ARM.
9.) SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
10.) SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
11.) ∗ DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).
12.)REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "C".

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	UPDATED NOTES
2	JRN	1/13/2000	MOVED POLES 2, 3, 5 & 6
3	JRN	1/13/2000	UPDATED CONTROLLER PHASING
4	JRN	1/13/2000	UPDATED HANDHOLE NUMBERING
5	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 2–LAY
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "C"
MAIN ST. (CSAH 14) / RIVERDALE VILLAGE BLVD.
INTERSECTION LAYOUT

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 375 / 539

PLOT DATE: Jul 06, 2004 5:10pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As–Built\2–lay.DWG

EF DRAWINGS

-ESUM
TRIPE
-ALIW
GBASE
'LNW

(1) TYPE PA100 POLE FOUNDATION
TYPE PA100–A–16.8–X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
1 – TWO WAY SIGNAL OVERHEAD (0 m)
2 – ONE WAY SIGNALS OVERHEAD
(6.9 m & 10.5 m FROM END OF MAST ARM)
1 – TYPE 10A POLE MOUNTED AT 180°
1 – TYPE 10B POLE MOUNTED AT 90°
1 – PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D–2) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø2 & ø5) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 1:
78 mm RSC
3–12/C#12
3–3/C#12
1–3/C#20
1–3/C#12 (LUM)

(2) PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
TYPE 1B
1 – PEDESTRIAN PUSHBUTTON

EXTEND INTO HH 1:
53 mm RSC
1–12/C#12
2–3/C#12

(3) TYPE PA100 POLE FOUNDATION
TYPE PA100–A–16.8–X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
2 – ONE WAY SIGNALS OVERHEAD (0 m &
6.9 m FROM END OF MAST ARM)
2 – TYPE 10B POLE MOUNTED AT 90°& 180°
2 – PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D–1) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø4 & ø7) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 4:
78 mm RSC
2–12/C#12
4–3/C#12
1–3/C#20
1–3/C#12 (LUM)

EXTEND INTO HH 9
53 mm RSC
1–2/C#14

(7) PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE AND BASE
PEDESTRIAN PUSHBUTTON

EXTEND INTO HH 7:
35 mm RSC
1–3/C#12

(4) TYPE PA100 POLE FOUNDATION
TYPE PA100–A–16.8–X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
1 – TWO WAY SIGNAL OVERHEAD (0 m)
2 – ONE WAY SIGNALS OVERHEAD
(6.9 m & 10.5 m FROM END OF MAST ARM)
1 – TYPE 10A POLE MOUNTED AT 180°
1 – TYPE 10B POLE MOUNTED AT 90°
1 – PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D–2) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø1 & ø6) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 8:
78 mm RSC
3–12/C#12
4–3/C#12
1–3/C#20
1–3/C#12 (LUM)

(5) PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
TYPE 1B
1 – PEDESTRIAN PUSHBUTTON

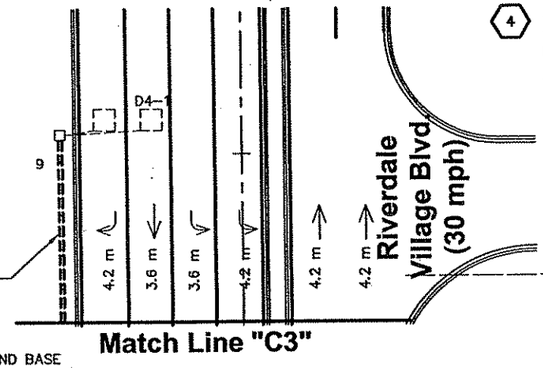
EXTEND INTO HH 8:
53 mm RSC
1–12/C#12
1–3/C#12

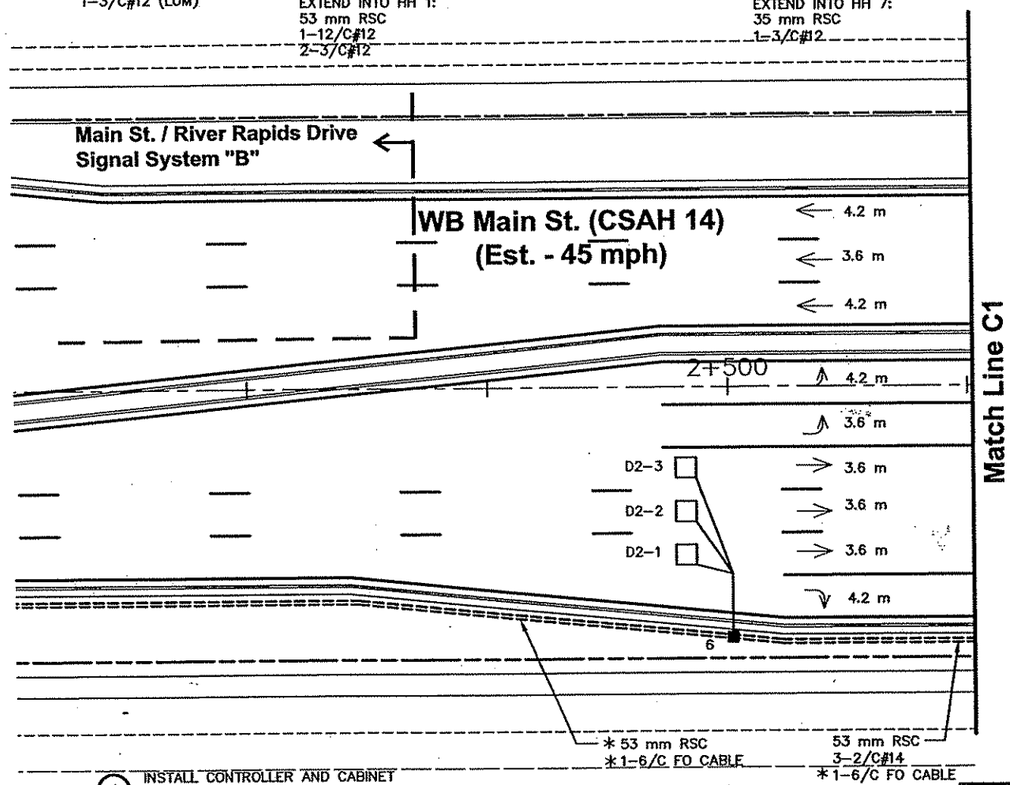
(6) TYPE PA100 POLE FOUNDATION
TYPE PA100–A–16.8–X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
2 – ONE WAY SIGNALS OVERHEAD (0 m &
6.9 m FROM END OF MAST ARM)
2 – TYPE 10B POLE MOUNTED AT 90°& 180°
2 – PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D–1) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø3 & ø8) (1.8 m FROM END OF MAST ARM)

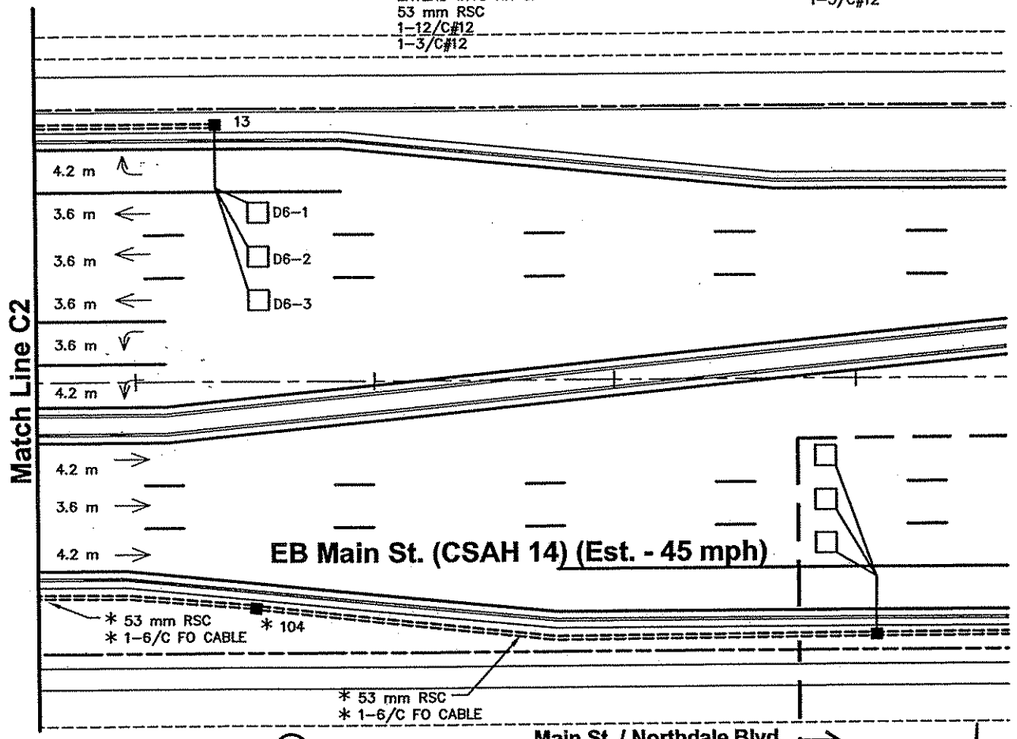
EXTEND INTO HH 12:
78 mm RSC
2–12/C#12
4–3/C#12
1–3/C#20
1–3/C#12 (LUM)

(8) PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE AND BASE
PEDESTRIAN PUSHBUTTON

EXTEND INTO HH 14:
53 mm RSC
1–3/C#12







(A) INSTALL CONTROLLER AND CABINET
(FURNISHED BY ANOKA COUNTY)
CABINET FOUNDATION

EXTEND INTO HH 15:
2–78 mm RSC
6–12/C#12
6–3/C#12
2–3/C#20
10–2/C#14

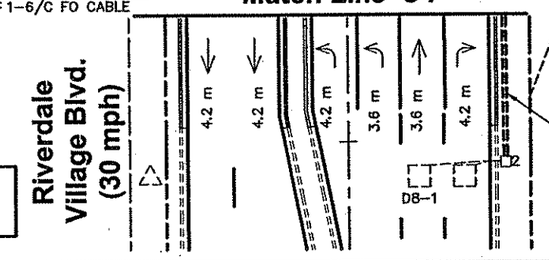
EXTEND TO
FIBER–OPTIC VAULT:
78 mm RSC
*1–6/C FO CABLE

EXTEND INTO HH 1:
2–78 mm RSC
6–12/C#12
6–3/C#12
2–3/C#20
10–2/C#14

EXTEND INTO HH 16:
METERED SIGNAL SERVICE
35 mm RSC
3–1/C#6

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

Match Line C4



(B) SERVICE CABINET
CABINET FOUNDATION

EXTEND INTO HH 16:
METERED SIGNAL SERVICE
35 mm RSC
3–1/C#6

EXTEND INTO HH 15:
53 mm RSC
UNMETERED STREET LIGHT SERVICE
4–3/C#12 (LUM)
UNMETERED ILLUMINATED SIGN SERVICE
4–3/C#12

53 mm RSC TO WEST
(FOR POWER BY CONNEXUS)

Main St. / Northdale Blvd.
Signal System "D"

* DENOTES ITEM INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	CHANGED LENGTHS OF POLES 3 & 6 TO 16.8
2	JRN	1/13/2000	UPDATED POLE AND CONTROLLER CABINET NOTES
3	JRN	1/13/2000	UPDATED CONNECTION FOR POWER
4	JRN	1/13/2000	UPDATED HANDHOLE NUMBERING
5	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 2–LAY2
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.18.
Robert J. Gruen
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "C"
MAIN ST. (CSAH 14) / RIVERDALE VILLAGE BLVD.
INTERSECTION LAYOUT (MATCH LINES)

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 376 / 539

PLOT DATE: Jul 13, 2004 8:43am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\...\dn\As–Built\2–lay2.dwg

F DRAWINGS

CONTROLLER CABINET

RLTA 1–3
YLTA 1–3
GLTA 1–3
NEU 1–3
SPR
SPR
SPR
NEU 5–1
RLTA 5–1
YLTA 5–1
GLTA 5–1
EQG

SPR
SPR
SPR
NEU P8–1
WLK P8–1
DWK P8–1
SPR
NEU 7–2
RLTA 7–2
YLTA 7–2
GLTA 7–2
EQG

RED 2–1
YEL 2–1
GRN 2–1
NEU 2–1, 2–2
RED 2–2
YEL 2–2
GRN 2–2
NEU 2–3
RED 2–3
YEL 2–3
GRN 2–3
EQG

RED 8–1
YEL 8–1
GRN 8–1
NEU 8–1
SPR
SPR
SPR
NEU P2–2
WLK P2–2
DWK P2–2
SPR
EQG

RED 4–2
YEL 4–2
GRN 4–2
NEU 4–2, P4–3
WLK P4–3
DWK P4–3
SPR
NEU 1–2
RLTA 1–2
YLTA 1–2
GLTA 1–2
EQG

RED 4–3
YEL 4–3
GRN 4–3
NEU 4–3
RLTA 7–1
YLTA 7–1
GLTA 7–1
NEU 7–1
SPR
SPR
SPR
EQG

RED 8–2
YEL 8–2
GRN 8–2
NEU P8–3, 8–2
WLK P8–3
DWK P8–3
SPR
NEU 5–2
RLTA 5–2
YLTA 5–2
GLTA 5–2
EQG

3–1 RLTA
3–1 YLTA
3–1 GLTA
3–1 NEU
8–3 RED
8–3 YEL
8–3 GRN
8–3 NEU
SPR
SPR
SPR
EQG

6–4 RED
6–4 YEL
6–4 GRN
6–4, P6–2 NEU
P6–2 WLK
P6–2 DWK
SPR
1–1 NEU
1–1 RLTA
1–1 YLTA
1–1 GLTA
EQG

4–1 RED
4–1 YEL
4–1 GRN
4–1, P4–1 NEU
P4–1 WLK
P4–1 DWK
SPR
3–2 NEU
3–2 RLTA
3–2 YLTA
3–2 GLTA
EQG

6–1 RED
6–1 YEL
6–1 GRN
6–1, 6–2 NEU
6–2 RED
6–2 YEL
6–2 GRN
6–3 NEU
6–3 RED
6–3 YEL
6–3 GRN
EQG

4–1 RED
4–1 YEL
4–1 GRN
4–1, NEU
SPR
SPR
SPR
P6–2 NEU
P6–2 WLK
P6–2 DWK
SPR
EQG

PB2–2
NEU
PB8–1

PB2–1
NEU
PB4–3

P2–1 WLK
P2–1 NEU
P2–1 DWK

SPR
NEU
PB4–2

SPR
NEU
PB8–2

PB6–1
NEU
PB8–3

P6–1 WLK
P6–1 NEU
P6–1 DWK

PB6–2
NEU
PB4–1

Ø2 & Ø5 EVP LIGHT
Ø2 & Ø5 EVP DETECTOR
Ø4 & Ø7 EVP LIGHT
Ø4 & Ø7 EVP DETECTOR
Ø3 & Ø8 EVP LIGHT
Ø3 & Ø8 EVP DETECTOR
Ø1 & Ø6 EVP LIGHT
Ø1 & Ø6 EVP DETECTOR
D8–2
D8–3
D8–1
D3–1
D3–2
D2–1
D2–2
D2–3
D5–1
D5–2
D1–1
D1–2
D6–1
D6–2
D6–3
D7–1
D7–2
D4–2
D4–3
D4–1

INTERCONNECT FO (6/C) PIGTAIL

SIGNAL SERVICE 57

CONDUCTOR COLOR CODING

12/c#12: R, O, BL, WH, R/BLK, O/BLK, BL/BLK, WH/BLK, BLK, BLK/WH, G/BLK, G
2–1/c#6: BLK, WH
3/c#12: R, WH, BLK
2/c#14: BLK, CLEAR
3/c#20: R OR O, WH OR YEL, BLK OR BL

NOTE:
ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	RENUMBERED CABLES
2	JRN	1/13/2000	UPDATED HANDHOLE NUMBERING
3	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 2–WIRE
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–6700 (TEL)
(612)370–1378 (FAX)

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Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "C"
MAIN ST. (CSAH 14) / RIVERDALE VILLAGE BLVD.
FIELD WIRING DIAGRAM

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 377 / 539

PLOT DATE: Jul 13, 2004 8:52am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\wdln\As–Built\2–wire.dwg

EF DRAWNGS

12-ESUM
12-ALIW
_STRIPE
SIGBASE
12PLNW

LOOP DETECTORS (NMC)			
NUMBER	SIZE (m)	LOCATION (m)	FUNCTION
D1-1	2-1.7 X 1.7	3,12	1
D1-2	2-1.7 X 1.7	3,12	1
D2-1, D2-2, D2-3	1.7 X 1.7	92	1
D3-1	2-1.7 X 1.7	3,12	1
D3-2	2-1.7 X 1.7	3,12	1
D4-1	2-1.7 X 1.7	92	3 & 8
D4-2	1.7x1.7,3.4x1.7	AS SHOWN	7
D4-3,D4-4	2-1.7 X 1.7	AS SHOWN	1
D5-1	2-1.7 X 1.7	3,12	1
D5-2	2-1.7 X 1.7	3,12	1
D6-1, D6-2, D6-3	1.7 X 1.7	92	1
D7-1	2-1.7 X 1.7	3,12	1
D7-2	2-1.7 X 1.7	3,12	1
D8-1	2-1.7 X 1.7	92	3 & 8
D8-2, D8-3	2-1.7 X 1.7	AS SHOWN	1

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

LOOP DETECTOR FUNCTIONS:
(1) - CALL AND EXTEND
(3) - EXTEND ONLY
(7) - DELAY CALL, IMMEDIATE EXTEND
(8) - STRETCH

SIGNAL FACES						
ALL INDICATIONS SHALL BE 300 mm ALL INDICATIONS SHALL BE LED.						
SIGNAL FACE	R	Y	G	R	Y	G
1-1, 1-2, 1-3				←	←	←
2-1, 2-2, 2-3	●	●	●			
3-1, 3-2				←	←	←
4-1, 4-2, 4-3, 4-4	●	●	●			
5-1, 5-2, 5-3				←	←	←
6-1, 6-2, 6-3	●	●	●			
7-1, 7-2				←	←	←
8-1, 8-2, 8-3	●	●	●			

Match Line D3

Northdale Blvd. (45 mph)

53 mm RSC
1-2/C#14

103 mm RSC
4-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)
6-2/C#14

103 mm RSC
4-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)
4-2/C#14

2-103 mm RSC
7-12/C#12
6-3/C#12
2-3/C#20
2-3/C#12 (LUM)
9-2/C#14

53 mm RSC
3-2/C#14

WB Main St. (CSAH 14) (Est - 45 mph)

Match Line D1

Match Line D2

ø1 & ø6 EVP

ø3 & ø8 EVP

ø2 & ø5 EVP

ø4 & ø7 EVP

2+900

1+000

D1-1
D1-2
D5-1
D5-2
D7-1
D7-2
D8-2
D8-3
D3-1
D3-2
D4-2
D4-3
D4-4

EB Main St. (CSAH 14) (Est - 45 mph)

2-103 mm RSC
7-12/C#12
7-3/C#12
2-3/C#20
2-3/C#12 (LUM)
11-2/C#14

53 mm RSC
2-3/C#12 (LUM)
2-3/C#12
*1-6/C FO CABLE

53 mm RSC
*1-6/C FO CABLE

53 mm RSC
3-2/C#14
*1-6/C FO CABLE

78 mm RSC
1-3/C#12
2-2/C#14

78 mm RSC
1-3/C#12
5-2/C#14
*1-6/C FO CABLE

103 mm RSC
3-12/C#12
4-3/C#12
1-3/C#20
1-3/C#12 (LUM)
5-2/C#14
*1-6/C FO CABLE

53 mm RSC
*2-6/C FO CABLE

FIBER-OPTIC VAULT

LIGHTING CABINET (SEE LIGHTING PLAN)

78 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)
2-2/C#14

103 mm RSC
3-12/C#12
4-3/C#12
1-3/C#20
1-3/C#12 (LUM)
7-2/C#14
*1-6/C FO CABLE

53 mm RSC
1-2/C#14
*2-6/C FO CABLE
1-3/C #20

*53 mm RSC
*1-6/C FO CABLE

Match Line D4

Northdale Blvd. (45 mph)

METER ADDRESS:
MAIN ST. / NORTHDALE BLVD.
SOUTHEAST QUADRANT

SIGNAL SYSTEM OPERATION
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE WITH PHASES 1, 3, 5 & 7 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON VEHICLE RECALL.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

0 5 10
SCALE IN METERS

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS

NORTHDALE BLVD.
MAIN ST.
PB4-1
PB6-2
PB6-1
PB8-3
PB4-2
PB8-2
PB8-1
PB2-1
PB4-3
PB2-2
P4-1
P6-2
P6-1
P8-3
P4-3
P2-1
P2-2
ø4 ø7
ø6
ø1
ø5
ø2
ø3 ø8

PUSHBUTTONS SHALL BE LOCATED AS SHOWN

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	UPDATED NOTES
2	JRN	1/13/2000	MOVED POLES 2, 3, 5 & 6
3	JRN	1/13/2000	UPDATED CONTROLLER PHASING
4	JRN	1/13/2000	UPDATED HANDHOLE NUMBERING
5	MRA	10/24/2003	MOD. REQ. #123-REV. ADDED EVP DETECTOR CABLE
6	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 3-LAY
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 7/14/04 MINN. REG. NO. 42828

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "D"
MAIN ST. (CSAH 14) / NORTHDALE BLVD.
INTERSECTION LAYOUT

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 378a / 539

PLOT DATE: Jul 13, 2004 8:56am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\3-lay_MOD123-REV.dwg

'RIPE
ESUM
AL\W
BASE
LNW

PLOT DATE: Jul 07, 2004 9:50am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\...dn\As-Built\3-lay2_MOD123-REV.dwg

(1) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
1 – TWO WAY SIGNAL OVERHEAD (0 m)
2 – ONE WAY SIGNALS OVERHEAD
(6.9 m & 10.5 m FROM END OF MAST ARM)
1 – TYPE 10B POLE MOUNTED AT 180°
1 – TYPE 10B POLE MOUNTED AT 90°
2 – PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D-2) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø2 & ø5) (1.8 m FROM END OF MAST ARM)

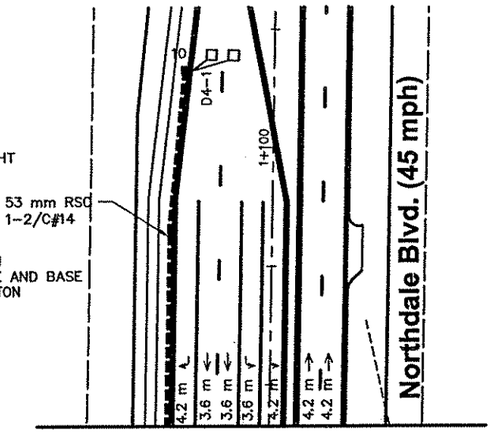
EXTEND INTO HH 3:
78 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)

(2) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 – ONE WAY SIGNALS OVERHEAD (0 m, 5.1 m
& 8.7 m FROM END OF MAST ARM)
2 – TYPE 10B POLE MOUNTED AT 90°& 180°
2 – PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D-1) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø4 & ø7) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 5:
78 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)

(6) PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE AND BASE
PEDESTRIAN PUSHBUTTON

EXTEND INTO HH 8:
53 mm RSC
1-3/C#12



Match Line D3

(3) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
1 – TWO WAY SIGNAL OVERHEAD (0 m)
2 – ONE WAY SIGNALS OVERHEAD
(6.9 m & 10.5 m FROM END OF MAST ARM)
1 – TYPE 10A POLE MOUNTED AT 180°
1 – TYPE 10A POLE MOUNTED AT 90°
1 – PEDESTRIAN PUSHBUTTON
INTERNALLY ILLUMINATED SIGN (D-2) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø1 & ø6) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 9:
78 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)

(4) PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
TYPE 1D
1 – PEDESTRIAN PUSHBUTTON

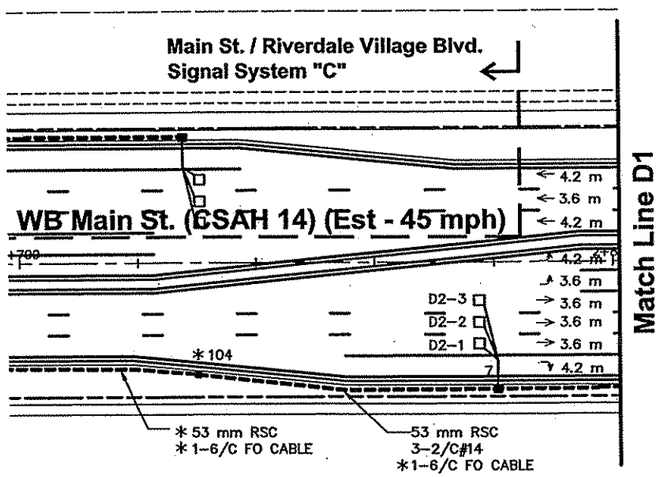
EXTEND INTO HH 9:
53 mm RSC
1-12/C#12
2-3/C#12

(5) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 – ONE WAY SIGNALS OVERHEAD (0 m, 5.1 m
& 8.7 m FROM END OF MAST ARM)
2 – TYPE 10B POLE MOUNTED AT 90°& 180°
2 – PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D-1) WITH P.E.C.
AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø3 & ø8) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 13:
78 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)

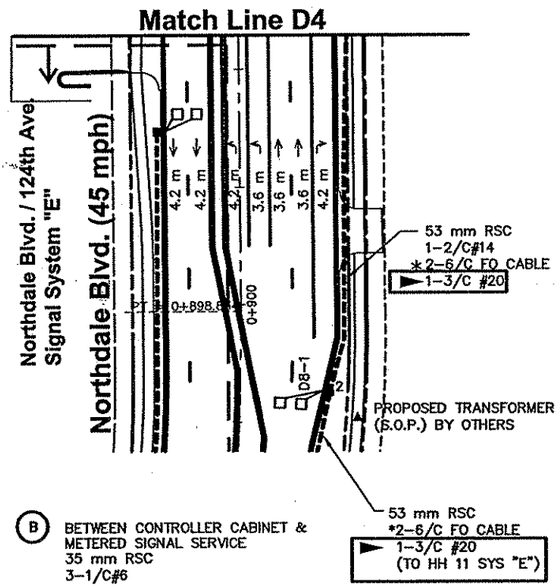
(7) PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE AND BASE
PEDESTRIAN PUSHBUTTON

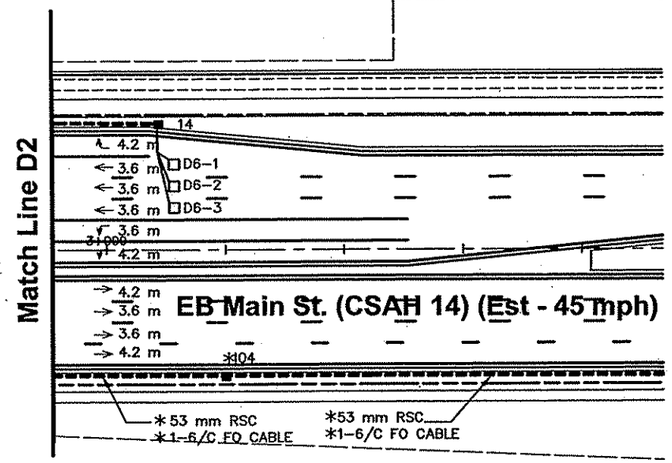
EXTEND INTO HH 15:
53 mm RSC
1-3/C#12



* DENOTES ITEMS INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)

Match Line D4





(A) INSTALL CONTROLLER AND CABINET
(FURNISHED BY ANOKA COUNTY)
CABINET FOUNDATION

EXTEND INTO HH 16:
2-103 mm RSC
7-12/C#12
5-3/C#12
2-3/C#20
11-2/C#14

EXTEND INTO HH 1:
2-103 mm RSC
6-12/C#12
5-3/C#12
2-3/C#20
10-2/C#14
* 1-6/C FO CABLE
►1-3/C#20

BETWEEN SERVICE AND CONTROLLER CABINET:
35 mm RSC
3-1/C#6

STUB OUT 78 mm RSC FROM CABINET TO NORTH
(THREAD AND CAP BOTH ENDS)

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

(B) BETWEEN CONTROLLER CABINET &
METERED SIGNAL SERVICE
35 mm RSC
3-1/C#6

EXTEND INTO HH 16:
53 mm RSC
UNMETERED STREET LIGHT SERVICE
4-3/C#12 (LUM)
UNMETERED ILLUMINATED SIGN SERVICE
4-3/C#12

STUB OUT 53 mm RSC TO SOUTH
(FOR POWER BY CONNEXUS)

NOTES:
1.) SEE SPECIAL PROVISIONS FOR ANOKA COUNTY FURNISHED MATERIALS.
2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
3.) ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED.
SEE SPECIAL PROVISIONS.
4.) EACH PEDESTRIAN SIGNAL FACE SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
5.) LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
6.) HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
7.) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS-LINKED POLYETHYLENE (XLP) IN 21mm NMC, SEE SPECIAL PROVISIONS AND DETAILS.
8.) A 21 mm HALF-COUPLING, 21 mm PIPE NIPPLE AND CONDUIT OUTLET BODY FOR EMERGENCY VEHICLE PREEMPTION SHALL BE FURNISHED AND INSTALLED ON EACH MAST ARM AT 1.8 m FROM END OF MAST ARM.
9.) SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
10.) SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
11.) * DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).
12.)REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "D".
13.) ALL ITEMS THIS SHEET ARE INPLACE UNLESS DENOTED BY ►.
(► DENOTES ITEMS AND NOTES APPLICABLE TO THIS REVISION AND ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.)



NOTE DIFFERENT SCALE
THAN PREVIOUS PAGE

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	CHANGED LENGTHS OF POLES 3 & 6 TO 16.8
2	JRN	1/13/2000	UPDATED POLE AND CONTROLLER CABINET NOTES
3	JRN	1/13/2000	UPDATED CONNECTION FOR POWER
4	JRN	1/13/2000	UPDATED HANDHOLE NUMBERING
5	JJL	7/5/2000	MOD. REQ. #36: REVISED MENAROS ENTRANCE
6	MRA	10/24/2003	MOD. REQ. #123-REV: ADDED EVP DETECTOR CABLE
7	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 3-LAY2
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: ~~12/21/99~~ 7/14/04 MINN. REG. NO. 42828

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "D"
MAIN ST. (CSAH 14) / NORTHDALE BLVD.
INTERSECTION LAYOUT (MATCH LINES)

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 379a / 539

F DRAWINGS

APBOX

NOTE:
ALL ITEMS ON THIS SHEET ARE INPLACE UNLESS DENOTED BY ►.

► DENOTES NEW CABLE AND CONNECTION TO BE FURNISHED & INSTALLED BY THE CONTRACTOR.

CONTROLLER CABINET

CONDUCTOR COLOR CODING

NOTE:
ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

SERVICE CABINET

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	RENUMBERED CABLES
2	JRN	1/13/2000	UPDATED HANDHOLE NUMBERING
3	MRA	10/24/2003	MOD. REQ. #123-REV: ADDED EVP DETECTOR CABLE
4	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 3-WIRE
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE: 7/19/04 MINN. REG. NO. 42828

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "D"
MAIN ST. (CSAH 14) / NORTHDALE BLVD.
FIELD WIRING DIAGRAM

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 380a / 539

PLOT DATE: Jul 13, 2004 9:06am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\...\As-Built\3-wire_MOD123-REV.dwg

EF DRAWINGS

-ESUM
-ALIW
TRIPE
ᵀLNW
AHETO
ɔBASE

LOOP DETECTORS (NMC)

NUMBER	SIZE (m)	LOCATION (m)	FUNCTION
D1–1	4–1.7 X 1.7	1.5,6,10.5,15	1
D2–1	1.7 X 1.7	92	1
D3–1	4–1.7 X 1.7	1.5,6,10.5,15	1
D4–1	1.7 X 1.7	55	3 & 8
D4–2	2–3.4	AS SHOWN	7
D4–3	1.7 X 1.7	AS SHOWN	1
D5–1	4–1.7 X 1.7	1.5,6,10.5,15	1
D6–1, D6–2	1.7 X 1.7	82	1
D7–1	4–1.7 X 1.7	1.5,6,10.5,15	1
D8–1	1.7 X 1.7	37	3 & 8
D8–2	2–3.4	AS SHOWN	7
D8–3	1.7 X 1.7	AS SHOWN	1

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

LOOP DETECTOR FUNCTIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – DELAY CALL, IMMEDIATE EXTEND
(8) – STRETCH

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm
ALL INDICATIONS SHALL BE LED.

SIGNAL FACE	R	Y	G	R	Y	G
1–1, 1–2				←	←	←
2–1, 2–2, 2–3	●	●	●			
4–1	●	●	●			
4–2, 4–3	●	●	●		←	←
5–1, 5–2				←	←	←
6–1, 6–2, 6–3	●	●	●			
8–1	●	●	●			
8–2, 8–3	●	●	●		←	←

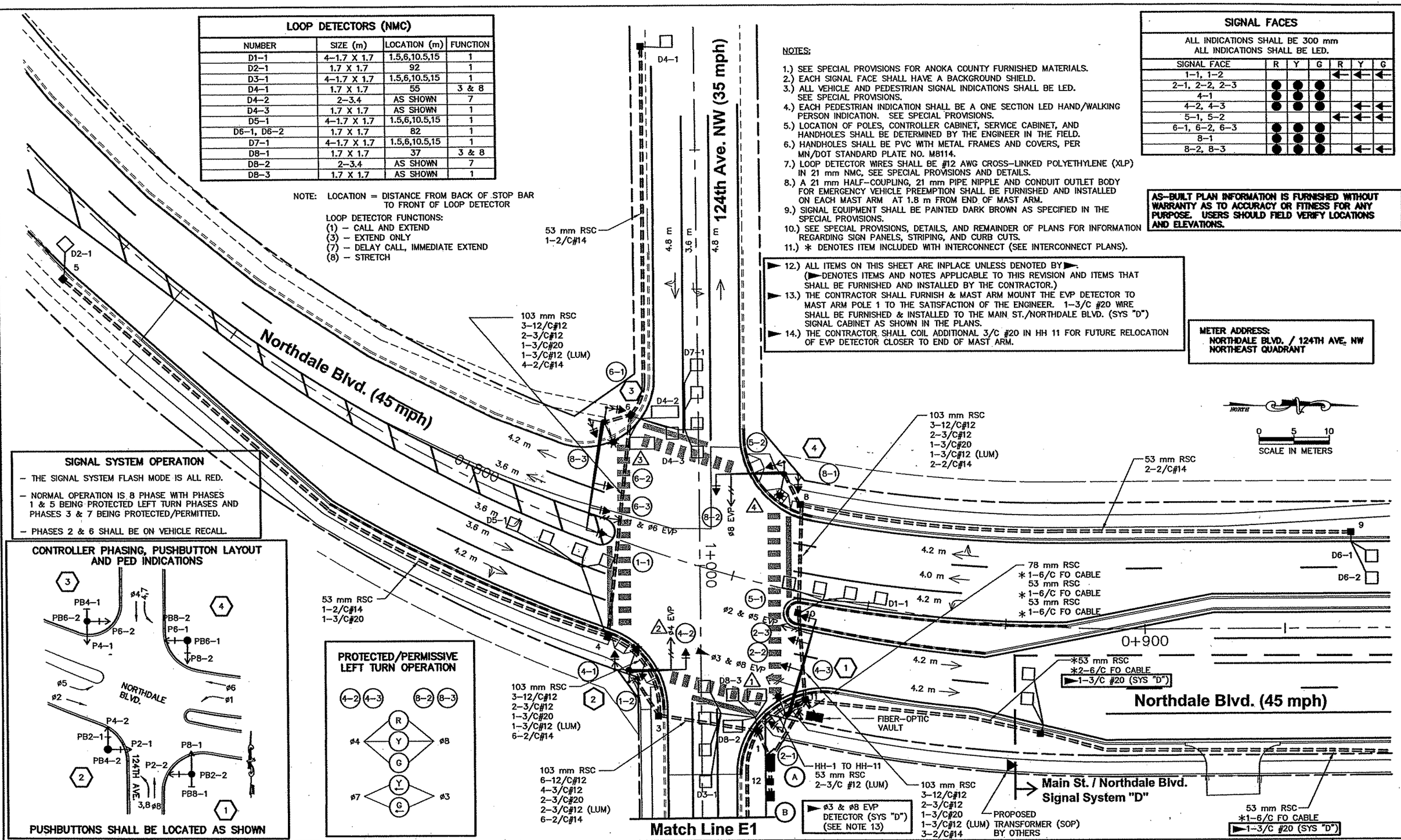
NOTES:

1.) SEE SPECIAL PROVISIONS FOR ANOKA COUNTY FURNISHED MATERIALS.
2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
3.) ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
4.) EACH PEDESTRIAN INDICATION SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
5.) LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
6.) HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
7.) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS–LINKED POLYETHYLENE (XLP) IN 21 mm NMC, SEE SPECIAL PROVISIONS AND DETAILS.
8.) A 21 mm HALF–COUPLING, 21 mm PIPE NIPPLE AND CONDUIT OUTLET BODY FOR EMERGENCY VEHICLE PREEMPTION SHALL BE FURNISHED AND INSTALLED ON EACH MAST ARM AT 1.8 m FROM END OF MAST ARM.
9.) SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
10.) SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
11.) * DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).

► 12.) ALL ITEMS ON THIS SHEET ARE INPLACE UNLESS DENOTED BY ►. (►DENOTES ITEMS AND NOTES APPLICABLE TO THIS REVISION AND ITEMS THAT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.)
► 13.) THE CONTRACTOR SHALL FURNISH & MAST ARM MOUNT THE EVP DETECTOR TO MAST ARM POLE 1 TO THE SATISFACTION OF THE ENGINEER. 1–3/C #20 WIRE SHALL BE FURNISHED & INSTALLED TO THE MAIN ST./NORTHDALE BLVD. (SYS "D") SIGNAL CABINET AS SHOWN IN THE PLANS.
► 14.) THE CONTRACTOR SHALL COIL ADDITIONAL 3/C #20 IN HH 11 FOR FUTURE RELOCATION OF EVP DETECTOR CLOSER TO END OF MAST ARM.

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

METER ADDRESS:
NORTHDALE BLVD. / 124TH AVE. NW
NORTHEAST QUADRANT



SIGNAL SYSTEM OPERATION

– THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
– NORMAL OPERATION IS 8 PHASE WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES AND PHASES 3 & 7 BEING PROTECTED/PERMITTED.
– PHASES 2 & 6 SHALL BE ON VEHICLE RECALL.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS

PUSHBUTTONS SHALL BE LOCATED AS SHOWN

PROTECTED/PERMISSIVE LEFT TURN OPERATION

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/10/2000	UPDATED NOTES
2	JRN	1/10/2000	ADDED LOOPS D4–3 & D8–3
3	MRA	10/24/2003	MOD. REQ. #123–REV. ADDED EVP DETECTOR & CABLE
4	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 4–LAY
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1379 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
DATE: 7/14/04 MINN. REG. NO. 42828

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "E"
NORTHDALE BLVD. / 124TH AVE. NW
INTERSECTION LAYOUT

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 381a / 539

PLOT DATE: Jul 07, 2004 10:27am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\wdln\As–Built\4–lay_MOD123–REV.dwg

F DRAWINGS

ESUM
ALIW
RIPE
LNW
HETO
B

(1) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-13.7-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 - ONE WAY SIGNALS OVERHEAD (0.0 m,
3.3 m & 6.9 m FROM END OF MAST ARM)
2 - TYPE 10B POLE MOUNTED AT 90° & 180°
2 - PEDESTRIAN PUSHBUTTONS
TYPE "D" SIGN PANEL OVERHEAD (D-7)
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø2 & ø5) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 11:
78 mm RSC
3-12/C#12
2-3/C#12
1-3/C#20
1-3/C#12 (LUM)

(2) TYPE PA85 POLE FOUNDATION
TYPE PA85-A-7.6-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
ONE WAY SIGNAL OVERHEAD
(0.0 m FROM END OF MAST ARM)
2 - TYPE 10B POLE MOUNTED AT 90° & 180°
2 - PEDESTRIAN PUSHBUTTONS
TYPE "D" SIGN PANEL OVERHEAD (D-6)
TYPE R10-12 (900 mm X 1200 mm) SIGN NEXT
TO SIGNAL FACE 4-2
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø4) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 3:
78 mm RSC
3-12/C#12
2-3/C#12
1-3/C#20
1-3/C#12 (LUM)

(5)
- PEDESTAL FOUNDATION
- 3 m PEDESTAL POLE AND BASE
- 1-EVP DETECTOR - MOUNTED ON TOP OF PEDESTAL POLE (ø2 & ø5)

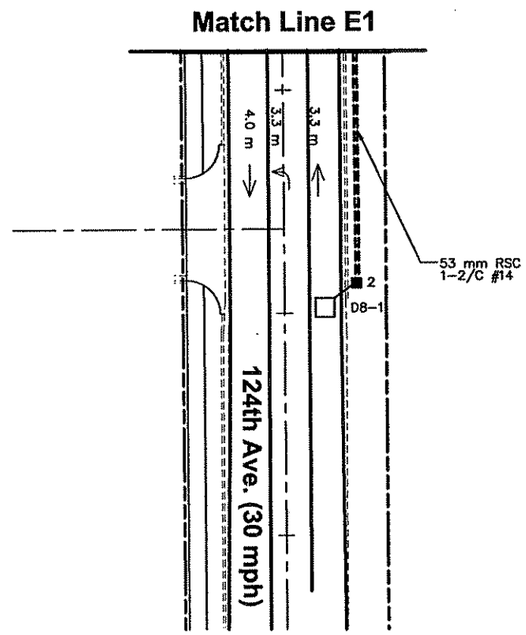
- EXTEND INTO HH 5:
- 53 mm RSC
- 1-3/C#20

(3) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-15.2-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 - ONE WAY SIGNALS OVERHEAD (0.0 m,
3.3 m & 6.9 m FROM END OF MAST ARM)
2 - TYPE 10B POLE MOUNTED AT 90° & 180°
2 - PEDESTRIAN PUSHBUTTONS
TYPE "D" SIGN PANEL OVERHEAD (D-7)
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø1 & ø6) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 6:
78 mm RSC
3-12/C#12
2-3/C#12
1-3/C#20
1-3/C#12 (LUM)

(4) TYPE PA90 POLE FOUNDATION
TYPE PA90-A-9.1-X9.1
LUMINAIRE ARM AT 280°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
ONE WAY SIGNAL OVERHEAD
(0.0 m FROM END OF MAST ARM)
2 - TYPE 10B POLE MOUNTED AT 90° & 180°
2 - PEDESTRIAN PUSHBUTTONS
TYPE "D" SIGN PANEL OVERHEAD (D-6)
TYPE R10-12 (900 mm X 1200 mm) SIGN NEXT
TO SIGNAL FACE 8-2
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
(ø8) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 8:
78 mm RSC
3-12/C#12
2-3/C#12
1-3/C#20
1-3/C#12 (LUM)



(A) INSTALL CONTROLLER AND CABINET
(FURNISHED BY ANOKA COUNTY)
CABINET FOUNDATION

EXTEND INTO HH 11:	EXTEND INTO HH 1:	EXTEND INTO HH 12:
103 mm RSC	103 mm RSC	METERED SIGNAL SERVICE
6-12/C#12	6-12/C#12	35 mm RSC
4-3/C#12	4-3/C#12	3-1/C#6
2-3/C#20	2-3/C#20	
3-2/C#14	10-2/C#14	
* 1-6/C FO CABLE	►1-3/C#20	

STUB OUT 78 mm RSC FROM CABINET TO SOUTH
(THREAD AND CAP BOTH ENDS)

* DENOTES ITEM INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)

(B) SERVICE CABINET
CABINET FOUNDATION

EXTEND INTO HH 12:
METERED SIGNAL SERVICE
35 mm RSC
3-1/C#6

EXTEND INTO HH 1:
UNMETERED STREET LIGHT SERVICE
35 mm RSC
4-3/C#12 (LUM)

STUB OUT 53 mm RSC TO NORTH
(FOR POWER BY CONNEXUS)

NORTH
0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/10/2000	ADDED R10-12 SIGNS
2	JRN	1/10/2000	UPDATED CONNECTION FOR POWER
3	MRA	12/9/2002	MOD.REQ.#123: ADDED MATS. FOR AN ADVANCED EVP DET.
4	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 4-LAY2
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)
A DAMES & MOORE GROUP COMPANY

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Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "E"
NORTHDALE BLVD. / 124TH AVE. NW
INTERSECTION LAYOUT (MATCH LINES)

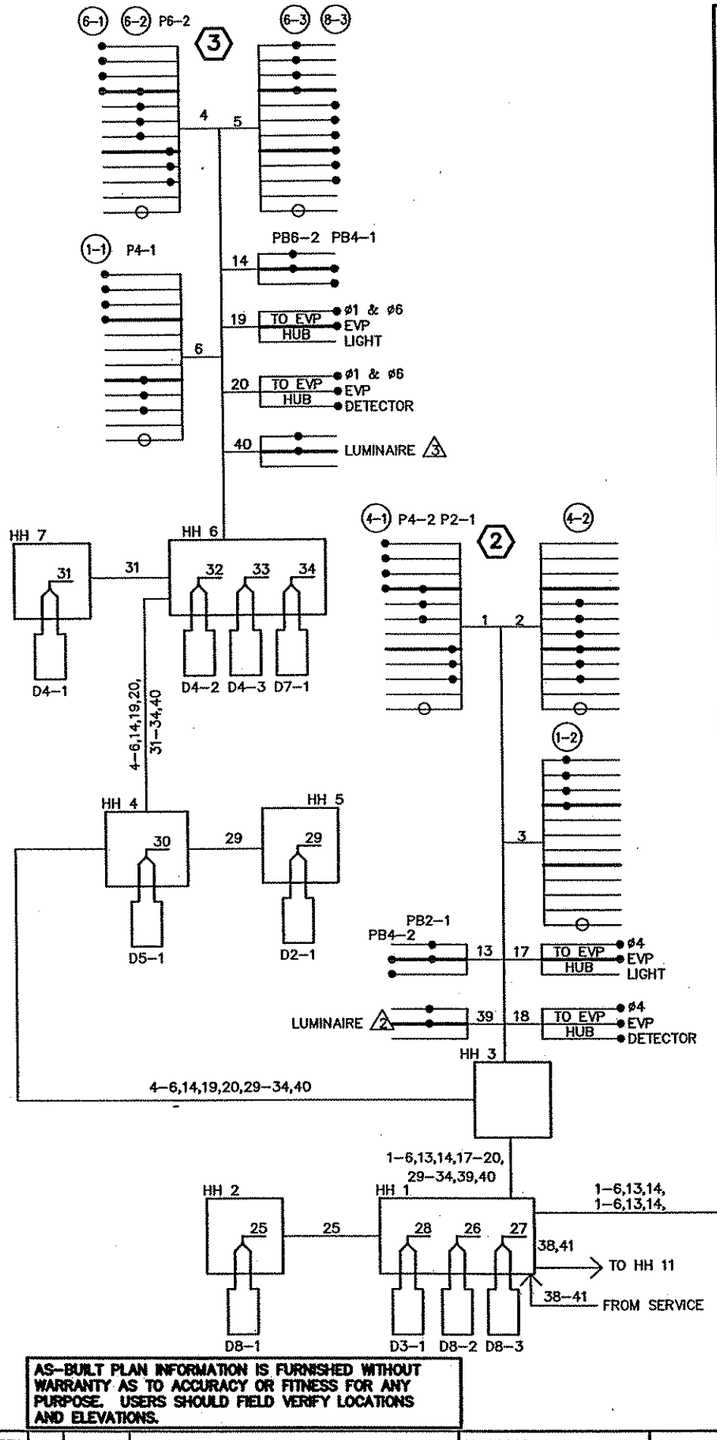
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

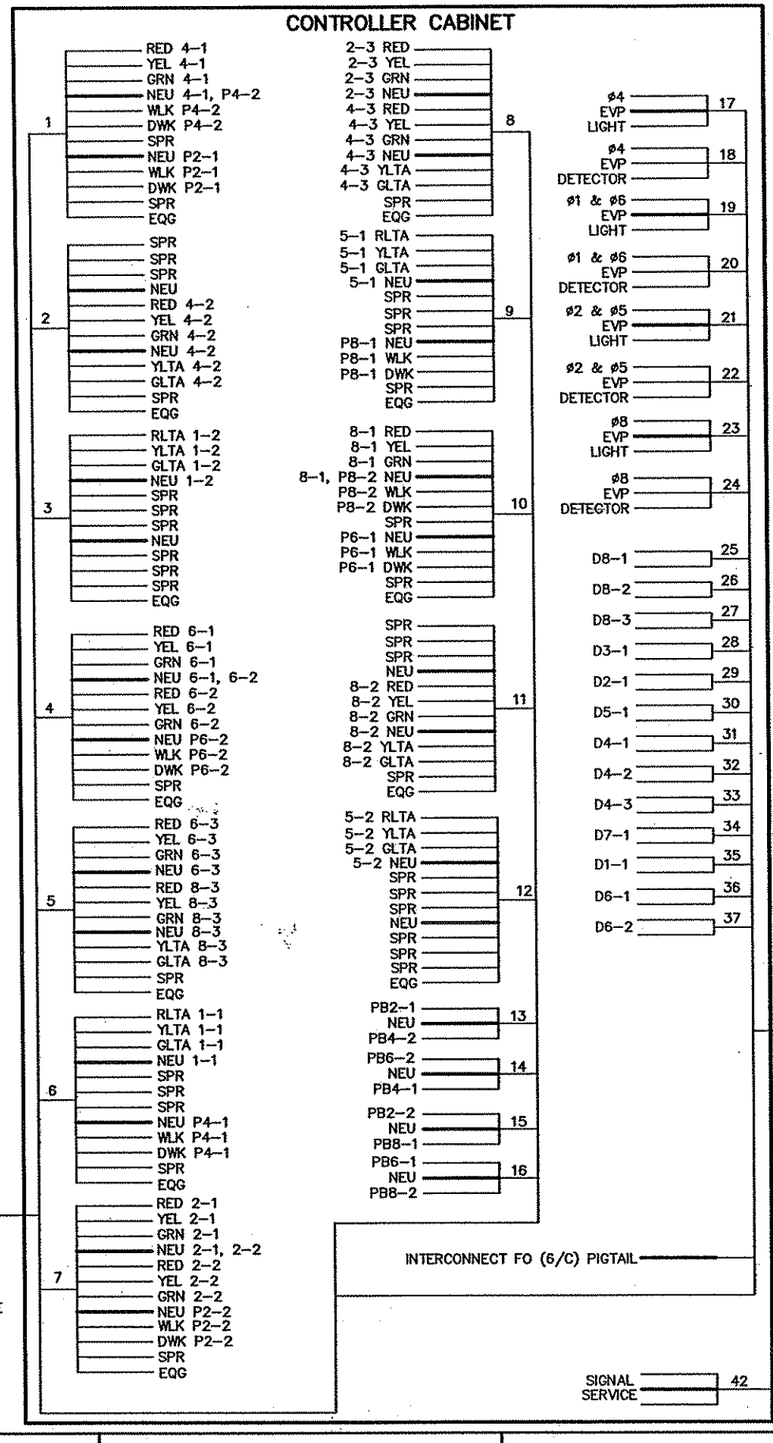
SHEET NO. 382a / 539

PLOT DATE: DEC. 9, ...02 7:53am DISK FILE NAME: (14.0th (Hardware Lock)) R:\33889\33889028\3...dE\SIGNALS\Main\4-lay2_MOD123.dwg

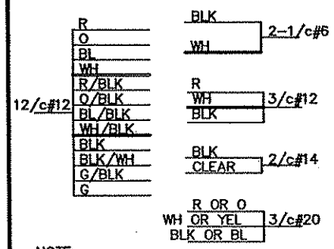
F DRAWINGS



CONTROLLER CABINET

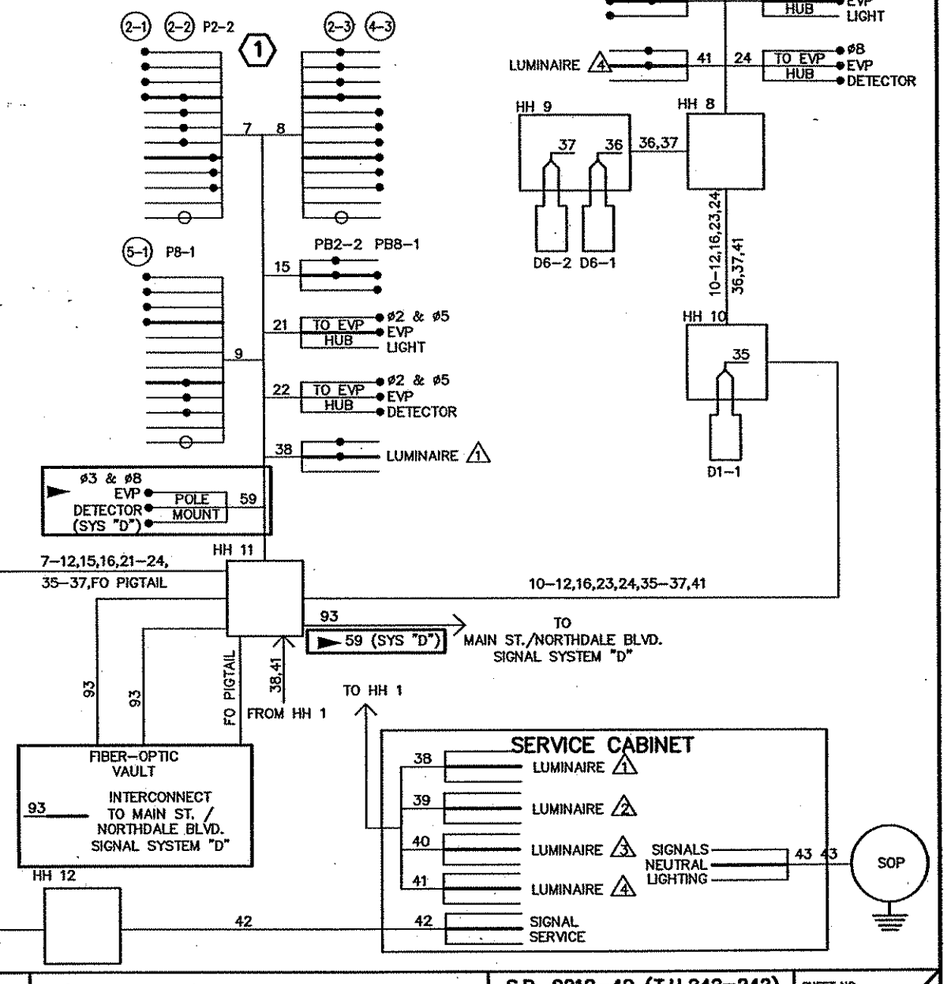


CONDUCTOR COLOR CODING



NOTE:
ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

NOTE:
ALL ITEMS ON THIS SHEET ARE INPLACE UNLESS DENOTED BY ►.
► DENOTES NEW CABLE AND CONNECTION TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/10/2000	ADDED LOOPS D4-3 & D8-3
2	JRN	1/10/2000	REMOVED LOOPS D1-2 & D5-2
3	JRN	1/10/2000	RENUMBERED LOOPS
4	MRA	10/24/2003	MOD. REQ. #123-REV. ADDED EVP DETECTOR & CABLE
5	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 4-WIRE
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DEM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
DATE: 7/14/04 MINN. REG. NO. 42823

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "E"
NORTHDALE BLVD. / 124TH AVE. NW
FIELD WIRING DIAGRAM

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 383a / 539

PLOT DATE: Jul 13, 2004 9:09am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\4-wire_MOD123-REV.dwg

F DRAWINGS

-ALI
ESUM
RIPE
RIPE
BASE
-PLN
LN

LOOP DETECTORS (NMC)			
NUMBER	SIZE (m)	LOCATION (m)	FUNCTION
D1-1	2-1.7 X 1.7	3,12	1
D1-2	2-1.7 X 1.7	3,12	1
D2-1, D2-2, D2-3	1.7 X 1.7	92	1
D4-1, D4-2,D4-3	1.7 X 1.7	76	3, 8
D4-4	2 - 3.4	1.5,6	7
D4-5, D4-6	2-1.7 X 1.7	1.5,6	1
D6-1, D6-2, D6-3	1.7 X 1.7	128	1
*D6-4	MICROWAVE	*111	1

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR / PEDESTRIAN MARKINGS TO FRONT OF LOOP DETECTOR

LOOP DETECTOR FUNCTIONS:
(1) - CALL AND EXTEND
(3) - EXTEND ONLY
(7) - DELAY CALL, IMMEDIATE EXTEND
(8) - STRETCH

* LIGHT POLE MOUNTED

SIGNAL FACES						
ALL INDICATIONS SHALL BE 300 mm ALL INDICATIONS SHALL BE LED.						
SIGNAL FACE	R	Y	G	R	Y	G
1-1, 1-2, 1-3				←	←	←
2-1, 2-2, 2-3	●	●	●			
4-1	●	●	●			
4-2	●	●	●			←
4-3, 4-4	●				←	←
6-1, 6-2, 6-3, 6-4	●	●	●			

Match Line F3

Hwy. 10 West Ramp (40 mph)

3.6 m

3.6 m

3.6 m

53 mm RSC
3-2/C#14

103 mm RSC
2-12/C#12
2-3/C#12
1-3/C#20
1-3/C#12 (LUM)
1-2/C#14

D4-4 D4-5 D4-6

103 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)
6-2/C#14

103 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)
9-2/C#14
1-4/C#18

53 mm RSC
3-2/C#14
1-4/C#18

SIGNAL JUNCTION BOX 1 (BY OTHERS)

41 mm RSC (BY OTHERS)
F & I: 1-4/C#18

LIGHTING JUNCTION BOX (BY OTHERS)

LIGHTING CONDUIT
F & I 1-4/C#18

INSTALL MnDOT FURNISHED MICROWAVE VEHICLE DETECTOR ON LIGHT POLE

78 mm RSC
HANGING FROM BRIDGE DECK (BY OTHERS)
3-2/C#14

D6-4

Match Line F1

WB Main St. (CSAH 14)
(EST. - 45 mph)

4.2 m
3.6 m
4.2 m

ø1 & ø6 EVP

3+200

3+300

D1-1
D1-2

Match Line F2

78 mm RSC
3-2/C#14
*1-6/C FO CABLE

53 mm RSC
1-3/C 12
2-3/C#12 (LUM)

ø2 EVP

EB Main St. (T.H. 242)
(EST. - 45 mph)

4.2 m
3.6 m
3.6 m

53 mm RSC
3-2/C#14
*1-6/C FO CABLE

103 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)
11-2/C#14
1-4/C#18

*53 mm RSC
*1-6/C FO CABLE

Main St. / T.H. 10 East Ramp
Signal System "G"

PROPOSED TRANSFORMER (SOP) BY OTHERS

53 mm RSC
*1-6/C FO CABLE

FIBER-OPTIC VAULT

103 mm RSC
2-12/C#12
3-3/C#12
1-3/C#12 (LUM)
1-3/C#20
3-2/C#14
* 1-6/C FO CABLE

53 mm RSC
*1-6/C FO CABLE

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS

PB6-2
P6-2
ø4
HWY 10 W RAMP
P6-1
PB6-1
ø6
ø1
ø2
MAIN ST.
PB2-2
P2-1
P2-2
PB2-1

PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON VEHICLE RECALL.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

SYSTEM ID NO.:

METER ADDRESS:
MAIN ST. / T.H. 10 WEST RAMP
SOUTHEAST QUADRANT

NOTES:
1.) SEE SPECIAL PROVISIONS FOR Mn/DOT AND ANOKA COUNTY FURNISHED MATERIALS.
2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
3.) ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
4.) EACH PEDESTRIAN SIGNAL FACE SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
5.) LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
6.) HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
7.) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS-LINKED POLYETHYLENE (XLP) IN 21 mm NMC. SEE SPECIAL PROVISIONS AND DETAILS.
8.) A 21 mm HALF-COUPLING, 21 mm PIPE NIPPLE AND CONDUIT OUTLET BODY FOR EMERGENCY VEHICLE PREEMPTION SHALL BE FURNISHED AND INSTALLED ON EACH MAST ARM.
9.) SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
10.) SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
11.) * DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLAN).
12.) REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.611 SIGNAL SYSTEM "F".

SCALE IN METERS
0 5 10

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/10/2000	UPDATED NOTES
2	JRN	1/10/2000	ADDED SIGNAL HEAD 2-1
3	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 5-LAY
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Green

DATE: 11/5/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "F"
MAIN ST. (CSAH 14) (T.H. 242)/ T.H. 10 WEST RAMP INTERSECTION LAYOUT

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 384 / 539

PLOT DATE: Jul 07, 2004 10:51am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\5-lay.dwg

F DRAWNGS

TRIPE
TRIPE
-ESUM
:-ALI
3BASE
:-PLN
>LN

(1) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 - ONE WAY SIGNALS OVERHEAD (0.0 m,
5.2 m & 8.8 m FROM END OF MAST ARM)
1 - TYPE 10A POLE MOUNTED AT 90°
1 - TYPE 10B POLE MOUNTED AT 180°
1 - PEDESTRIAN PUSHBUTTON
1 - "NO PED XING" SIGN (R9-3A) FACING POLE NO. 5
TYPE "D" SIGN PANEL OVERHEAD (D-8)
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (ø2)
(1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 1:
78 mm RSC
2-12/C#12
2-3/C#12
1-3/C#20
1-3/C#12 (LUM)

(2) TYPE PA90 POLE FOUNDATION
TYPE PA90-A-9.1-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
2 - ONE WAY SIGNAL OVERHEAD (0.0 m &
3.3 m, FROM END OF MAST ARM)
1 - TYPE 30A POLE MOUNTED AT 90°
1 - TYPE 10A POLE MOUNTED AT 180°
1 - TYPE 10A POLE MOUNTED AT 270°
1 - PEDESTRIAN PUSHBUTTON
1 - "NO PED XING" SIGN (R9-3A) FACING POLE NO. 3
INTERNALLY ILLUMINATED SIGN
(D-1) WITH PEC AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (ø4)
(1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 2:
78 mm RSC
2-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)

(3) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 - ONE WAY SIGNALS OVERHEAD (0.0 m, 4.4 m
& 8.0 m FROM END OF MAST ARM)
1 - TYPE 10B POLE MOUNTED AT 180°
~~1 - TYPE 30A POLE MOUNTED AT 90°~~ △1
2 - PEDESTRIAN PUSHBUTTONS
1 - "NO PED XING" SIGN (R9-3A) FACING POLE NO. 2
TYPE "D" SIGN PANEL OVERHEAD (D-10)
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (ø1 & ø6)
(1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 6:
78 mm RSC
2-12/C#12
2-3/C#12
1-3/C#20
1-3/C#12 (LUM)

(A) INSTALL CONTROLLER AND CABINET
(FURNISHED BY ANOKA COUNTY)
CABINET FOUNDATION

EXTEND INTO HH 12:
103 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
11-2/C#14
1-4/C#18

EXTEND INTO HH 1:
103 mm RSC
4-12/C#12
4-3/C#12
2-3/C#20
3-2/C#14

EXTEND INTO HH 13:
METERED SIGNAL SERVICE
35 mm RSC
3-1/C#6

EXTEND TO
FIBER-OPTIC VAULT:
78 mm RSC
* 1-6/C FO CABLE

(B) SERVICE CABINET
CABINET FOUNDATION

EXTEND INTO HH 13:
METERED SIGNAL SERVICE
35 mm RSC
3-1/C#6

EXTEND INTO HH 12:
UNMETERED STREET LIGHT SERVICE
35 mm RSC
3-3/C#12 (LUM)
UNMETERED ILLUMINATED SIGN SERVICE
1-3/C#12

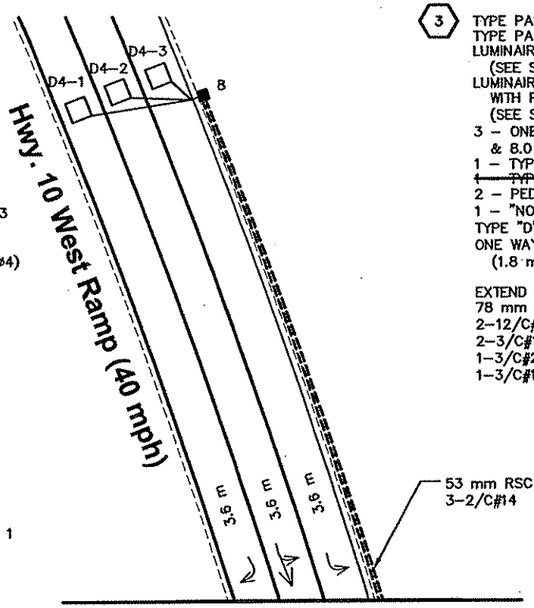
STUB OUT 53 mm RSC TO SOUTH
(FOR POWER BY CONNEXUS)

(4) PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE AND BASE
1 - TYPE 4A
1 - PEDESTRIAN PUSHBUTTON

EXTEND INTO HH 7:
53 mm RSC
1-3/C#12
1-12/C#12

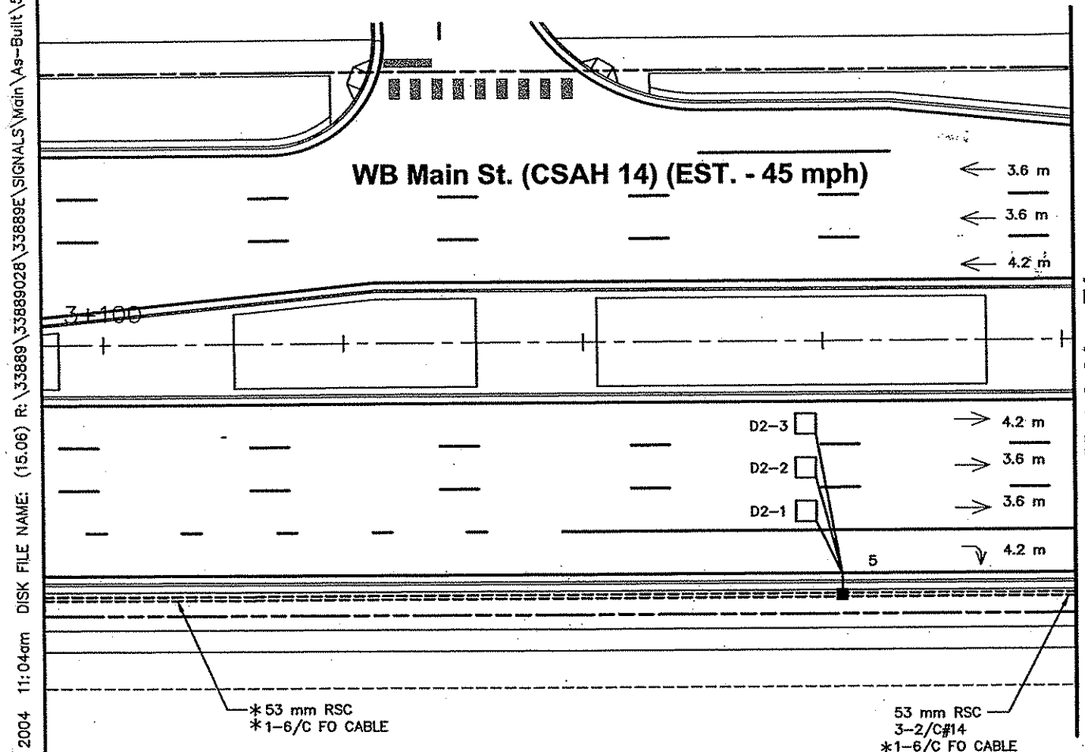
(5) PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE AND BASE
1 - TYPE ~~4A~~ 1A △1
1 - "STOP HERE ON RED" SIGN (R10-6)
1 - "NO PED XING" SIGN (R9-3A) FACING POLE NO. 1

EXTEND INTO HH 9:
53 mm RSC
2-12/C#12



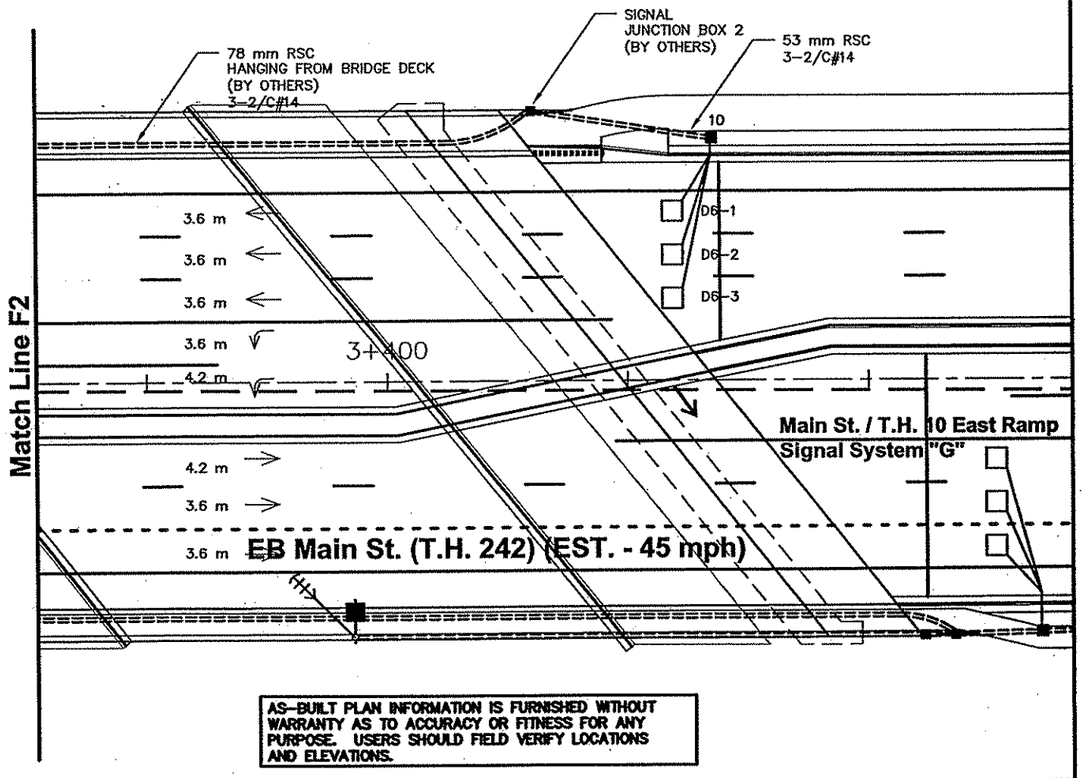
Match Line F3

* DENOTES ITEMS INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)



Match Line F1





Match Line F2

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/10/2000	UPDATED POLE & CONTROLLER CABINET NOTES
2	JRN	1/10/2000	UPDATED CONNECTION FOR POWER
3	KPK	2/11/00	ADDEND. △ POLE FOUNDATION * DELETED NOTE △1 PED FOUNDATION & CHANGED TO TYPE 1A
4	JJL	7/5/00	MOD. REQ. #36: REVISED MENARDS ENTRANCE
5	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 5-LAY2
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "F"
MAIN ST. (CSAH 14) (T.H. 242) / T.H. 10 WEST RAMP
INTERSECTION LAYOUT (MATCH LINES)

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

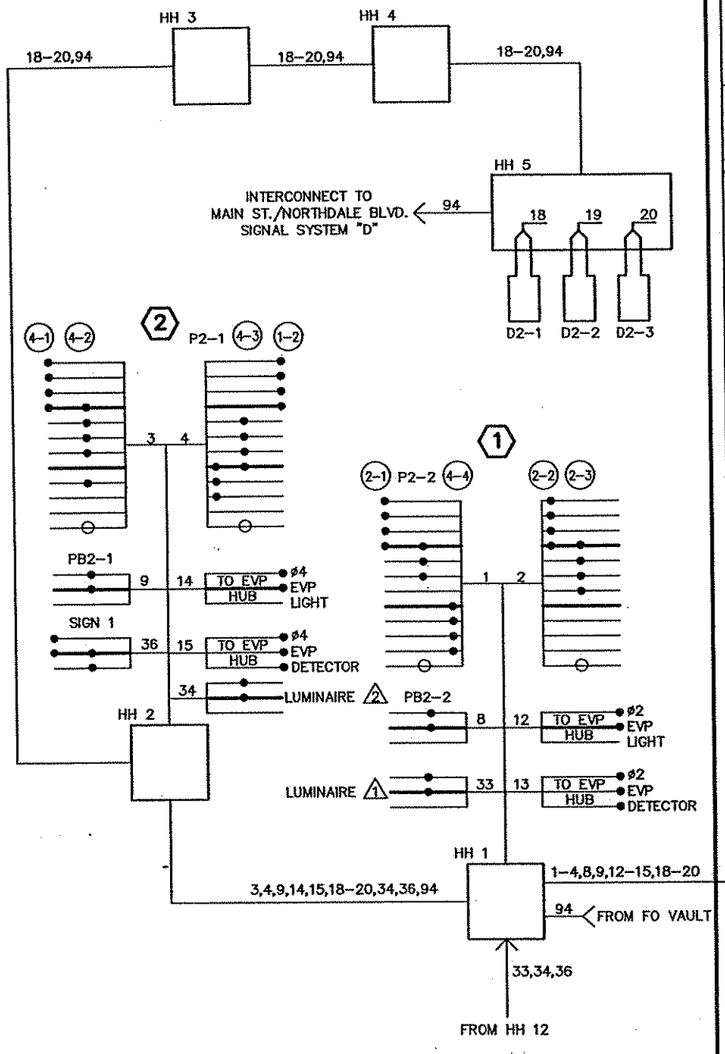
SHEET NO. 385 / 539

PLOT DATE: Jul 07, 2004 11:04am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\5-lay2.dwg

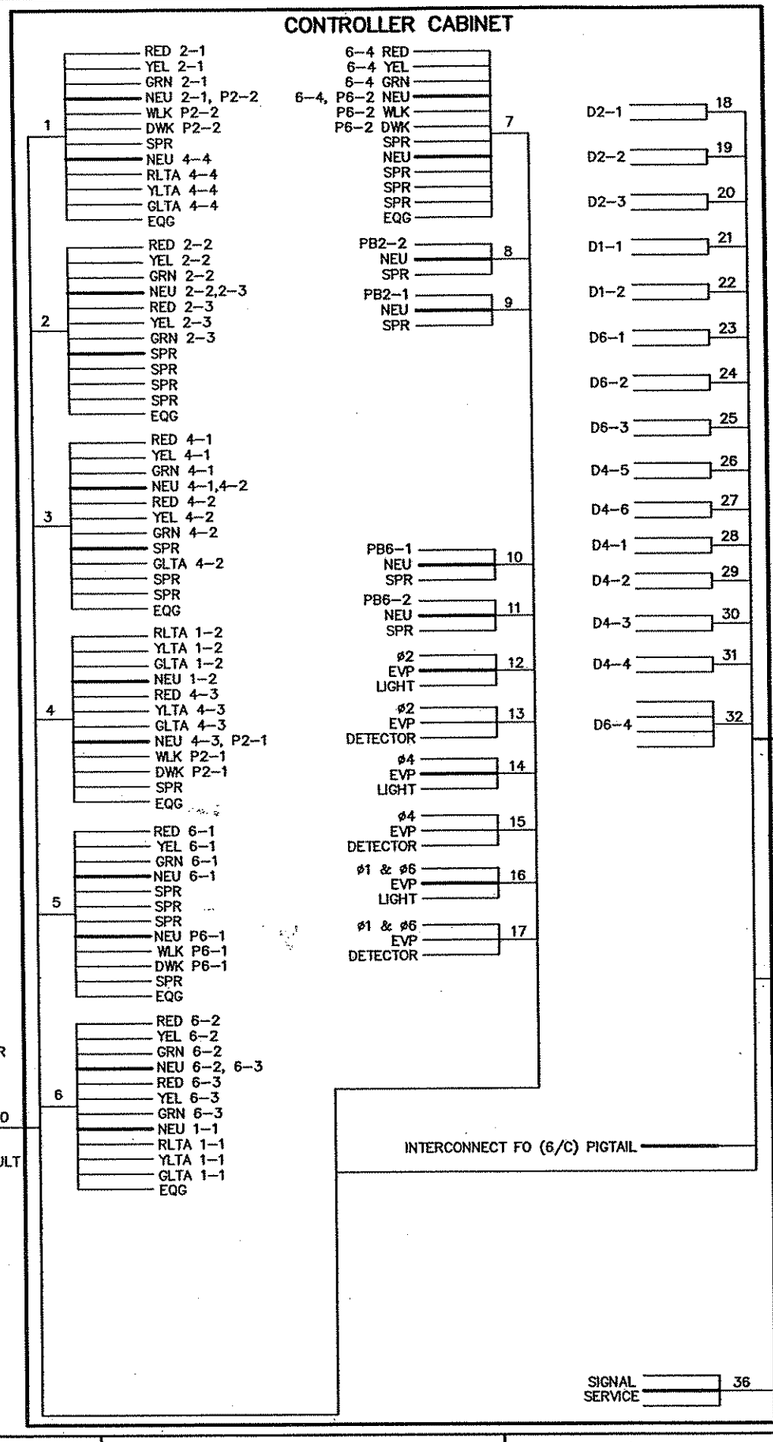
F DRAWINGS

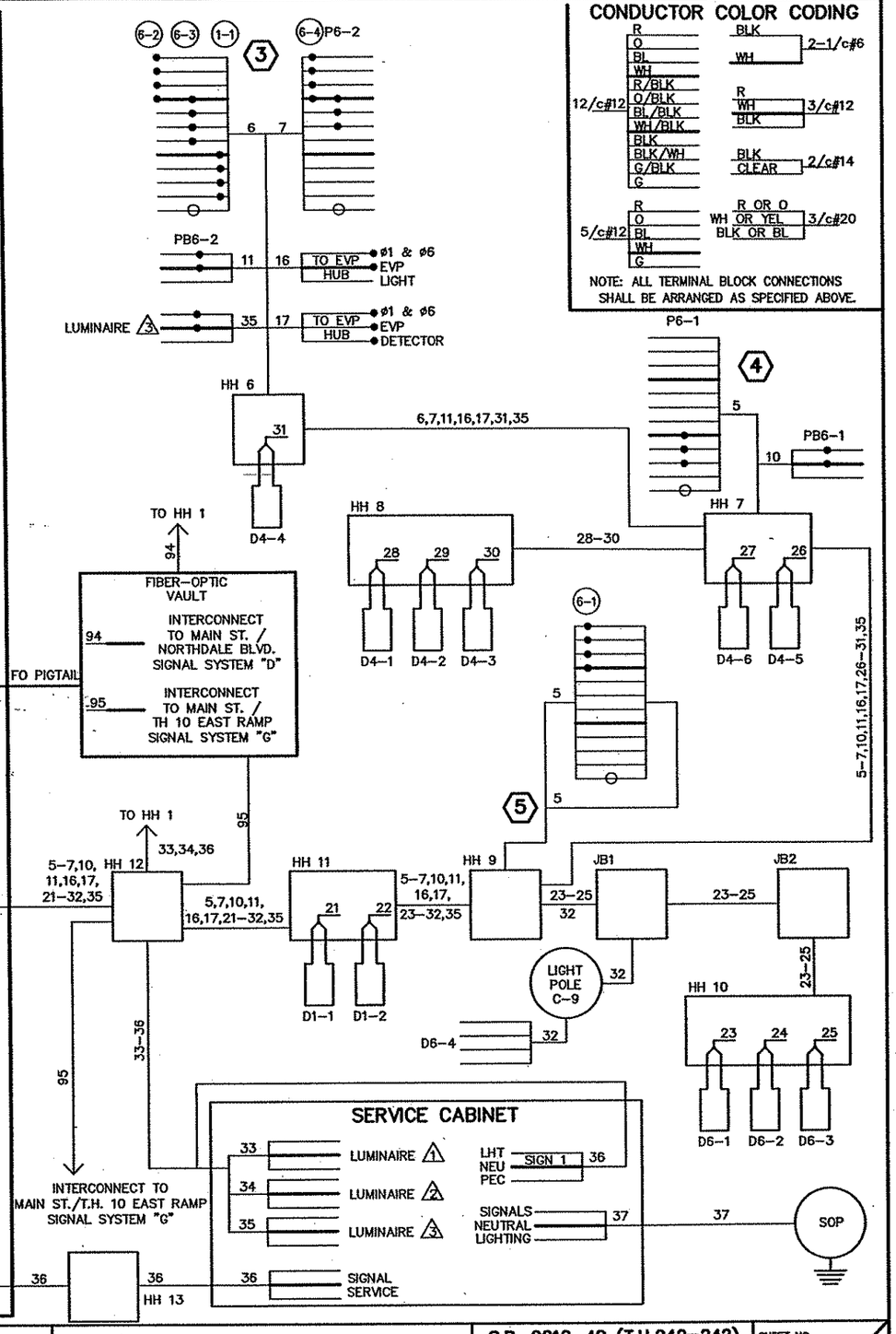
SAPBOX

PLOT DATE: Jul 13, 2004 9:12am DISK FILE NAME: (15.06) R:\33889\33889028\3388E\SIGNALS\main\As-Built\5-wire.dwg



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.





CONDUCTOR COLOR CODING

12/c#12	R, O, BL, WH, R/BLK, O/BLK, BL/BLK, WH/BLK, BLK, BLK/WH, G/BLK, G	BLK, WH — 2-1/c#6
		R, WH, BLK — 3/c#12
		BLK, CLEAR — 2/c#14
5/c#12	R, O, BL, WH, G	R OR O, WH OR YEL, BLK OR BL — 3/c#20

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/10/2000	RENUMBERED CABLE
1	JRN	1/10/2000	MOVED P2-1 FROM WIRE 3 TO WIRE 4
3	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 5-WIRE
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Grem

DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "F"
MAIN ST. (CSAH 14) (T.H. 242) / T.H. 10 WEST RAMP
FIELD WIRING DIAGRAM

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 386 / 539

F DRAWINGS

APBOX
SIGBASE
42-ESUM
42E-ALI
_STRIPE
42E-PLN

LOOP DETECTORS

NUMBER	SIZE (m)	LOCATION (m)	FUNCTION
D1-1, D1-2	1.7 X 1.7	76	3,8
D1-3	2 - 1.7 X 3.4	1.5,6	1
D1-4	2-1.7 X 1.7/3.4	1.5,6	1
D2-1, D2-2, D2-3	1.7 X 1.7	46	1
D5-1	2-1.7 X 1.7	3,12	1
D5-2	2-1.7 X 1.7	3,12	1
D6-1, D6-2, D6-3	1.7 X 1.7	92	1
D8-1, D8-2	1.7 X 1.7	76	3, 8
D8-3, D8-4	2-1.7 X 1.7	1.5,6	1
* D2-4	MICROWAVE	98	1

* LIGHT POLE MOUNTED

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR / PEDESTRIAN MARKINGS TO FRONT OF LOOP DETECTOR

LOOP DETECTOR FUNCTIONS:
(1) - CALL AND EXTEND
(3) - EXTEND ONLY
(7) - DELAY CALL, IMMEDIATE EXTEND
(8) - STRETCH

SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm
ALL INDICATIONS SHALL BE LED.

SIGNAL FACE	R	Y	G	R	Y	G
1-1, 1-2	●				→	→
2-1, 2-2, 2-3, 2-4 (1)	●	●	●			
5-1, 5-2, 5-3				←	←	←
6-1, 6-2, 6-3	●	●	●			
8-1	●	●	●			←
8-2, 8-3	●					←

SIGNAL FACE PHASING

FACE PHASE

1-1, 1-2 → R, Y, G → ø1 & ø8

OVERLAP A

Main St. /
T.H. 10 West Ramp
Signal System "F"

RAMP A

4.2 m

103 mm RSC
2-12/C#12
2-3/C#12
1-3/C#20
1-3/C#12 (LUM)

103 mm RSC
4-12/C#12
6-3/C#12
2-3/C#20
2-3/C#12 (LUM)

103 mm RSC
4-12/C#12
6-3/C#12
2-3/C#20
2-3/C#12 (LUM)
3-2/C#14

53 mm RSC
3-2/C#14

WB Main St. (T.H. 242)
(Est - 45 m.p.h.)

3.6 m
3.6 m
4.2 m

ø8 EVP
ø6 EVP

3+500
3+600

Match Line G1

F & I 1-4/C#18
IN LIGHTING CONDUIT

LIGHTING
JUNCTION BOX
(BY OTHERS)

D2-3
D2-2
D2-1

41 mm RSC
(BY OTHERS)
F & I: 1-4/C#18

D5-2
D5-1

ø2 & ø5 EVP

EB Main St. (T.H. 242)
(Est - 45 m.p.h.)

78 mm RSC HANGING
FROM BRIDGE DECK
(BY OTHERS)
* 1-6/C FO CABLE

SIGNAL
JUNCTION BOX 1
(BY OTHERS)

53 mm RSC
1-4/C#18
* 1-6/C FO CABLE

53 mm RSC
3-2/C#14
1-4/C#18
* 1-6/C FO CABLE

78 mm RSC
2-2/C#14

78 mm RSC
1-12/C#12
1-4/C#18
5-2/C#14
* 1-6/C FO CABLE

53 mm RSC
2-3/C#12 (LUM)

FIBER OPTIC VAULT

* 53 mm RSC
* 1-6/C FO CABLE

PROPOSED TRANFORMER (S.O.P.)
BY OTHERS

Hwy. 10 East Ramp (40 mph)

RAMP B

D8-4 D8-3 D1-4 D1-3

LIGHTING
SERVICE
CABINET
(SEE LIGHTING
PLAN)

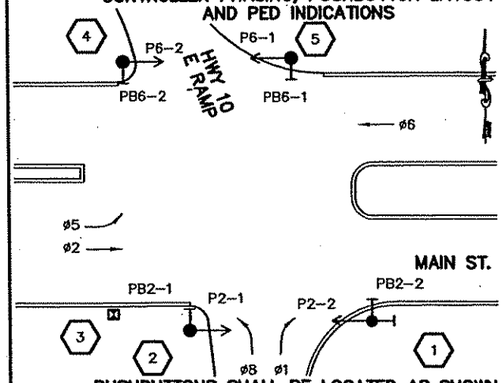
53 mm RSC
4-2/C#14

103 mm RSC
1-12/C#12
1-3/C#12
7-2/C#14
1-3/C#12 (LUM)
1-4/C#18
* 1-6/C FO CABLE

Match Line G3

Match Line G2

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 5 PHASE WITH PHASE 1 BEING A PROTECTED, RIGHT TURN PHASE AND PHASE 5 BEING PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON VEHICLE RECALL.
- OVERLAP A = ø8 + ø1

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:
1.) SEE SPECIAL PROVISIONS FOR Mn/DOT AND ANOKA COUNTY FURNISHED MATERIALS.
2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
3.) ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
4.) EACH PEDESTRIAN SIGNAL FACE SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
5.) LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
6.) HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
7.) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS-LINKED POLYETHYLENE (XLP) IN 21 mm SEE SPECIAL PROVISIONS AND DETAILS.
8.) A 21 mm HALF-COUPLING, 21 mm PIPE NIPPLE AND CONDUIT OUTLET BODY FOR EMERGENCY VEHICLE PREEMPTION SHALL BE FURNISHED AND INSTALLED ON EACH MAST ARM AT 1.8 m FROM END OF MAST ARM.
9.) SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
10.) SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
11.) * DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).
12.) REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "G"

0 5 10
SCALE IN METERS

SYSTEM ID NO.:

METER ADDRESS:
MAIN ST. / T.H. 10 EAST RAMP
SOUTHEAST QUADRANT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	UPDATED NOTES
2	JRN	1/13/2000	CHANGED SIGNAL FACES 8-1 AND 8-2 TO 1-1 AND 1-2
3	JRN	1/13/2000	UPDATED CONTROLLER PHASING AND SIGNAL SYSTEM OPERATION
4	KPK	2/11/00	ADDEND (1) ADDED 2-4 TO SIGNAL FACES
5	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 6-LAY
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION TRAFFIC SIGNAL SYSTEM "G"

MAIN ST. (T.H. 242) / T.H. 10 EAST RAMP
INTERSECTION LAYOUT

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 387 / 539

PLOT DATE: Jul 13, 2004 9:16am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\6-lay.dwg

F DRAWINGS

\PBOX
12-ESUM
12E-ALI
_STRIPE
SIGBASE
12E-PLN

1 TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 - ONE WAY SIGNALS OVERHEAD (0.0 m,
5.2 m & 8.8 m FROM END OF MAST ARM)
1 - TYPE 10B POLE MOUNTED AT 180°
1 - PEDESTRIAN PUSHBUTTON
1 - "NO PED XING" SIGN (R9-3A) FACING POLE 5
TYPE "D" SIGN PANEL OVERHEAD (D-12)
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (ø2 & ø5)
(1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 1:
78 mm RSC
2-12/C#12
2-3/C#12
1-3/C#20
1-3/C#12 (LUM)

2 TYPE PA85 POLE FOUNDATION
TYPE PA85-A-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH PEC AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
1 - TYPE 30A POLE MOUNTED AT 0°
1 - PEDESTRIAN PUSHBUTTON
1 - "NO PED XING" SIGN (R9-3A)
FACING POLE NO.3

EXTEND INTO HH 3:
78 mm RSC
1-3/C#12
1-3/C#12 (LUM)
2-12/C#12

3 PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE AND BASE
1 - TYPE 1A
1 - PEDESTRIAN PUSHBUTTON

EXTEND INTO HH 4:
53 mm RSC
1-12/C#12

4 TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 - ONE WAY SIGNALS OVERHEAD (0.0 m,
5.2 m & 8.8 m FROM END OF MAST ARM)
1 - TYPE 10A POLE MOUNTED AT 90°
1 - TYPE 10B POLE MOUNTED AT 180°
1 - PEDESTRIAN PUSHBUTTON
1 - "NO PED XING" SIGN (R9-3A) FACING POLE NO. 2
TYPE "D" SIGN PANELS OVERHEAD (D-9,D-11)
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (ø6)
(1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 7:
78 mm RSC
2-12/C#12
2-3/C#12
1-3/C#20
1-3/C#12 (LUM)

5 TYPE PA100 POLE FOUNDATION
TYPE PA100-A-13.7-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 - ONE WAY SIGNALS OVERHEAD (0.0 m,
3.3 m & 6.9 m FROM END OF MAST ARM)
1 - TYPE 10A POLE MOUNTED AT 180°
1 - TYPE 10B POLE MOUNTED AT 90°
INTERNALLY ILLUMINATED SIGN (D-1)
WITH PEC AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (ø2 & ø5)
(1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 8:
78 mm RSC
2-12/C#12
4-3/C#12
1-3/C#20
1-3/C#12 (LUM)

A INSTALL CONTROLLER AND CABINET
(FURNISHED BY ANOKA COUNTY)
CABINET FOUNDATION

EXTEND INTO HH 12:
103 mm RSC
4-12/C#12
5-3/C#12
2-3/C#20
3-2/C#14

EXTEND INTO HH 1:
103 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
13-2/C#14
1-4/C#18

EXTEND TO
FIBER-OPTIC VAULT:
78 mm RSC
*1-6/C FO CABLE

B SERVICE CABINET
CABINET FOUNDATION

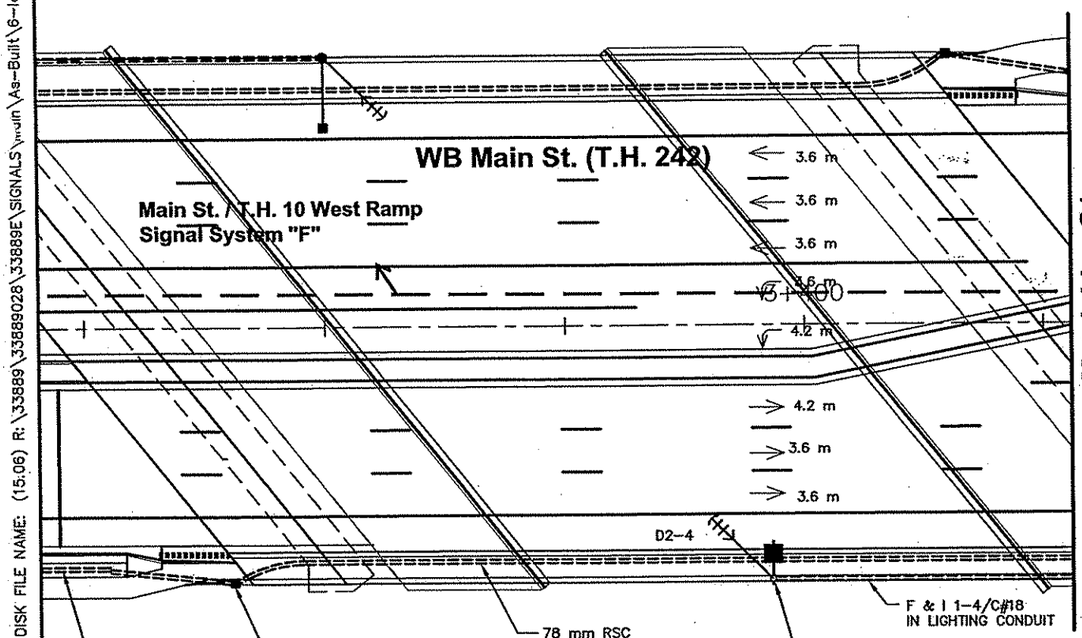
EXTEND INTO HH 13:
METERED SIGNAL SERVICE
35 mm RSC
3-1/C#6

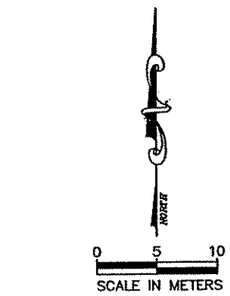
EXTEND INTO HH 12:
UNMETERED STREET LIGHT SERVICE
35 mm RSC
4-3/C#12 (LUM)
UNMETERED ILLUMINATED SIGN SERVICE
1-3/C#12

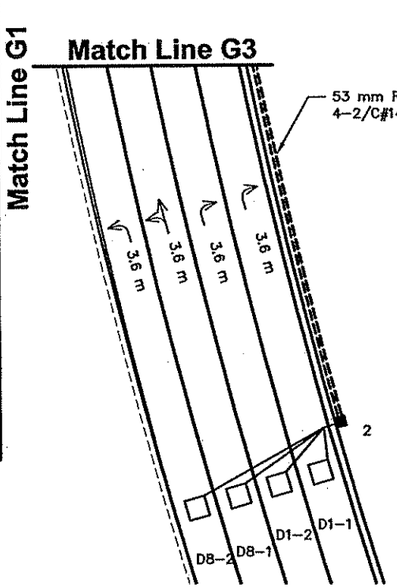
STUB OUT 53mm RSC TO SOUTH
(FOR POWER BY CONNEXUS)

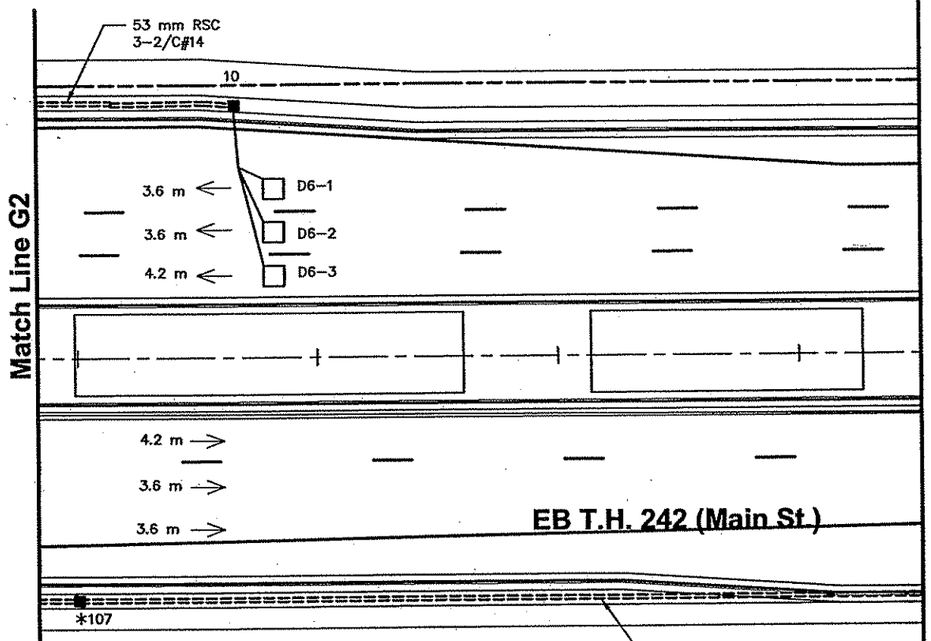
EXTEND INTO HH 13:
METERED SIGNAL SERVICE
35 mm RSC
3-1/C#6

* DENOTES ITEMS INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)









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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	UPDATED POLE AND CONTROLLER CABINET NOTES
2	JRN	1/13/2000	UPDATED CONNECTION FOR POWER
3	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 6-LAY2
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16.
Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "G"
MAIN ST. (T.H. 242) / T.H. 10 EAST RAMP
INTERSECTION LAYOUT (MATCH LINES)

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 388 / 539

PLOT DATE: Jul 07, 2004 11:50am DISK FILE NAME: (15:06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\6-lay2.dwg

F DRAWINGS

APBOX

INTERCONNECT TO
MAIN ST./T.H. 10 WEST RAMP
SIGNAL SYSTEM "F"

95

JB 2

35

D2–4
MICROWAVE
VEHICLE
DETECTOR

LIGHT POLE
(SEE LIGHTING PLAN)

95

35

JB 1

D2–1 D2–2 D2–3

35,95

29 30 31

HH 5

HH 6

27 28

29–31,35,95

HH 4

27,28

D5–1 D5–2

CONDUCTOR COLOR CODING

12/c#12: R, O, BL, WH, R/BLK, O/BLK, BL/BLK, WH/BLK, BLK, BLK/WH, G/BLK, G

2–1/c#6: BLK, WH

3/c#12: R WH, BLK

2/c#14: BLK CLEAR

3/c#20: R OR O WH OR YEL, BLK OR BL

NOTE:
ALL TERMINAL BLOCK CONNECTIONS
SHALL BE ARRANGED AS SPECIFIED ABOVE.

CONTROLLER CABINET

1: RED 2–4, YEL 2–4, GRN 2–4, NEU 2–4, P2–2, WLK P2–2, DWK P2–2, SPR, NEU 5–1, RLTA 5–1, YLTA 5–1, GLTA 5–1, EQG

2: RED 2–2, YEL 2–2, GRN 2–2, NEU 2–2,2–1, RED 2–1, YEL 2–1, GRN 2–1, NEU, SPR, SPR, SPR, EQG

3: RED 2–1, YEL 2–1, GRN 2–1, NEU 2–1,P2–1, WLK P2–1, DWK P2–1, SPR, NEU, SPR, SPR, SPR, EQG

4: RED 1–1, YRTA 1–1, GRTA 1–1, NEU 1–1,1–2, RED 1–2, YRTA 1–2, GRTA 1–2, NEU 8–2, RED 8–2, YLTA 8–2, GLTA 8–2, EQG

5: RLTA 5–2, YLTA 5–2, GLTA 5–2, NEU 5–2, RED 8–1, YEL 8–1, GRN 8–1, NEU 8–1, GLTA 8–1, SPR, SPR, EQG

6: 6–3 RED, 6–3 YEL, 6–3 GRN, 6–3, P6–2 NEU, P6–2 WLK, P6–2 DWK, SPR, 5–3 NEU, 5–3 RTLA, 5–3 YLTA, 5–3 GLTA, EQG

7: 6–1 RED, 6–1 YEL, 6–1 GRN, 6–1, 6–2 NEU, 6–2 RED, 6–2 YEL, 6–2 GRN, 8–3 NEU, 8–3 RED, 8–3 YLTA, 8–3 GLTA, EQG

8: PB2–2 NEU, SPR

9: PB2–1 NEU, SPR

10: P6–1 WLK, P6–1 NEU, P6–1 DWK

11: PB6–1 NEU, SPR

12: PB6–2 NEU, SPR

13: ø2 & ø5 EVP LIGHT

14: ø2 & ø5 EVP DETECTOR

15: ø8 EVP LIGHT

16: ø8 EVP DETECTOR

17: ø6 EVP LIGHT

18: ø6 EVP DETECTOR

19: D1–3

20: D1–4

21: D8–1

22: D8–2

23: D1–1

24: D1–2

25: D8–3

26: D8–4

27: D5–1

28: D5–2

29: D2–1

30: D2–2

31: D2–3

32: D6–1

33: D6–2

34: D6–3

35: D2–4 MICROWAVE VEHICLE DETECTOR (4/C#18)

INTERCONNECT FO (6/C) PIGTAIL

41: SIGNAL SERVICE

P2–1 (3)

3

3

3

37

LUMINAIRE 2

PB2–1 9

P2–4 P2–2 5–1 (1)

1 2

PB2–2 8

13 TO EVP HUB ø2 & ø5 EVP LIGHT

36

14 TO EVP HUB ø2 & ø5 EVP DETECTOR

LUMINAIRE 1

2–2 2–3

HH 3

25 26

D8–3 D8–4

3,9,25–31,35,37,95

HH 1

19 20

1–3,8,9,13,14,
19–31,35

36,37

FROM HH 12

21–24

D1–3 D1–4

95

FROM FO VAULT

HH 2

21 22 23 24

D8–1 D8–2 D1–1 D1–2

3,27–31,35,95

4

6–3 P6–2 5–3

6–1 6–2 8–3

6 7

PB6–2

12 17 TO EVP HUB ø6 EVP LIGHT

LUMINAIRE 3

38 18 TO EVP HUB ø6 EVP DETECTOR

HH 7

5

1–1 1–2 8–2

8–1 5–2

4 5

P6–1

10

PB6–1

11 15 TO EVP HUB ø8 EVP LIGHT

SIGN 1

40 16 TO EVP HUB ø8 EVP DETECTOR

39 LUMINAIRE 4

HH 8

6,7,12,17,18,38

TO HH 1

95

FIBER–OPTIC
VAULT

FO
PIGTAIL

95 INTERCONNECT TO MAIN ST. / TH 10 WEST RAMP SIGNAL SYSTEM "F"

96 INTERCONNECT TO MAIN ST. / COON CREEK BLVD. SIGNAL SYSTEM "H"

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

4–7,10–12,15–18,38–40

INTERCONNECT TO
MAIN ST./COON CREEK BLVD.
SIGNAL SYSTEM "H"

96

HH 12

4–7,10–12,15–18,
32–34

TO HH 1

36,37

HH 11

4–7,10–12,15–18
32–34,38–40

HH 9

4–7,10–12,15–18,
32–34,38–40

32–34

HH 10

32 33 34

D6–1 D6–2 D6–3

36–40

40

36–39

SERVICE CABINET

36 LUMINAIRE 1

37 LUMINAIRE 2

38 LUMINAIRE 3

39 LUMINAIRE 4

SIGN 1 LHT NEU PEC 40

SIGNALS NEUTRAL LIGHTING 42

41 SIGNAL SERVICE

HH 13

41

42

SOP

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	UPDATED SIGNAL FACE NUMBERING
2	JRN	1/13/2000	RENUMBERED CABLES
3	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 6–WIRE
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
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Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "G"
T.H. 242 (MAIN ST.) / T.H. 10 EAST RAMP
FIELD WIRING DIAGRAM

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 389 / 539

PLOT DATE: Jul 13, 2004 9:18am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\wdln\As–Built\6–wire.dwg

F DRAWINGS

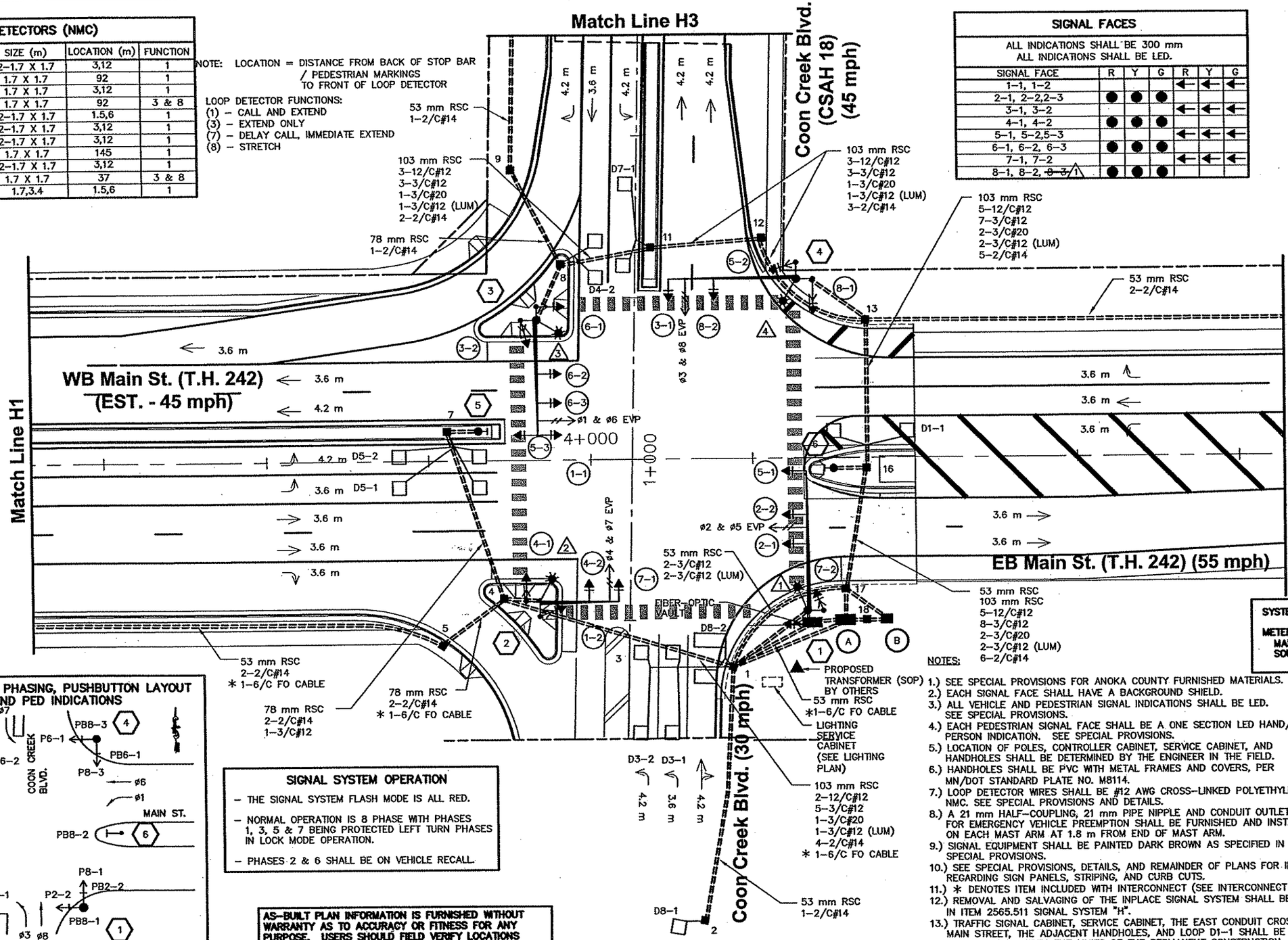
2PLN2A
2-ESUM
2E-ALI
STRIPE
IGBASE
2E-PLN

LOOP DETECTORS (NMC)			
NUMBER	SIZE (m)	LOCATION (m)	FUNCTION
D1-1	2-1.7 X 1.7	3,12	1
D2-1, D2-2	1.7 X 1.7	92	1
D3-1, D3-2	1.7 X 1.7	3,12	1
D4-1	1.7 X 1.7	92	3 & 8
D4-2	2-1.7 X 1.7	1.5,6	1
D5-1	2-1.7 X 1.7	3,12	1
D5-2	2-1.7 X 1.7	3,12	1
D6-1	1.7 X 1.7	145	1
D7-1	2-1.7 X 1.7	3,12	1
D8-1	1.7 X 1.7	37	3 & 8
D8-2	1.7,3.4	1.5,6	1

NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR / PEDESTRIAN MARKINGS TO FRONT OF LOOP DETECTOR

LOOP DETECTOR FUNCTIONS:
(1) - CALL AND EXTEND
(3) - EXTEND ONLY
(7) - DELAY CALL, IMMEDIATE EXTEND
(8) - STRETCH

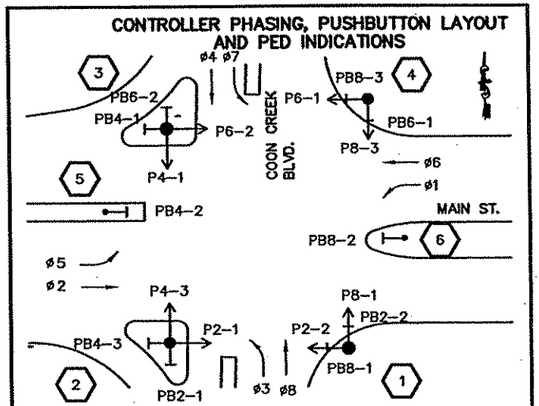
SIGNAL FACES						
ALL INDICATIONS SHALL BE 300 mm ALL INDICATIONS SHALL BE LED.						
SIGNAL FACE	R	Y	G	R	Y	G
1-1, 1-2				←	←	←
2-1, 2-2,2-3	●	●	●			
3-1, 3-2				←	←	←
4-1, 4-2	●	●	●			
5-1, 5-2,5-3				←	←	←
6-1, 6-2, 6-3	●	●	●			
7-1, 7-2				←	←	←
8-1, 8-2, ~~8-3~~	●	●	●			



SYSTEM ID NO.:

METER ADDRESS:
MAIN ST. / COON CREEK BLVD.
SOUTHEAST QUADRANT

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE WITH PHASES 1, 3, 5 & 7 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON VEHICLE RECALL.

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NOTES:
1.) SEE SPECIAL PROVISIONS FOR ANOKA COUNTY FURNISHED MATERIALS.
2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
3.) ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
4.) EACH PEDESTRIAN SIGNAL FACE SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
5.) LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
6.) HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
7.) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS-LINKED POLYETHYLENE (XLP) IN 21 mm NMC. SEE SPECIAL PROVISIONS AND DETAILS.
8.) A 21 mm HALF-COUPLING, 21 mm PIPE NIPPLE AND CONDUIT OUTLET BODY FOR EMERGENCY VEHICLE PREEMPTION SHALL BE FURNISHED AND INSTALLED ON EACH MAST ARM AT 1.8 m FROM END OF MAST ARM.
9.) SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
10.) SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
11.) * DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).
12.) REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "H".
13.) TRAFFIC SIGNAL CABINET, SERVICE CABINET, THE EAST CONDUIT CROSSING OF MAIN STREET, THE ADJACENT HANDHOLES, AND LOOP D1-1 SHALL BE CONSTRUCTED WITHIN THE LIMITS OF THE PERMANENT CONSTRUCTION AREA (WEST OF 4+040).

0 5 10
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	ADDED PUSHBUTTON STATIONS 5 & 6
2	JRN	1/13/2000	UPDATED NOTES
3	JRN	1/13/2000	UPDATED CONTROLLER PHASING
4	JRN	1/13/2000	UPDATED LOOP DETECTOR CHART
5	KPK	2/11/00	ADDEND DELETED 8-3 FROM SIGNAL FACES
6	TWS	7/14/00	MOD.REQ.#51: REMOVED HH IN MEDIAN ON SOUTH APPROACH TO INTERSECTION
7	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 7-LAY
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "H"
MAIN ST. (T.H. 242) / COON CREEK BLVD.
INTERSECTION LAYOUT

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 390 / 539

PLOT DATE: Jul 07, 2004 12:21pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\dgn\As-Built\7-lay.dwg

F DRAWINGS

2-ESUM
STRIPE
2E-ALI
IGBASE
2E-PLN

(1) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 - ONE WAY SIGNALS OVERHEAD (0 m, 5.2 m & 8.8 m FROM END OF MAST ARM)
1 - TYPE 10B POLE MOUNTED AT 90°
1 - TYPE 10B POLE MOUNTED AT 180°
2 - PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D-5)
WITH PEC AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (ø2 & ø5) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 1:
78 mm RSC
2-12/C#12
4-3/C#12
1-3/C#20
1-3/C#12 (LUM)

(3) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-13.7-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 - ONE WAY SIGNALS OVERHEAD (0 m, 3.3 m & 6.9 m FROM END OF MAST ARM)
2 - TYPE 10B POLE MOUNTED AT 90° & 180°
2 - PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D-5)
WITH PEC AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (ø1 & ø6) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 8:
78 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)

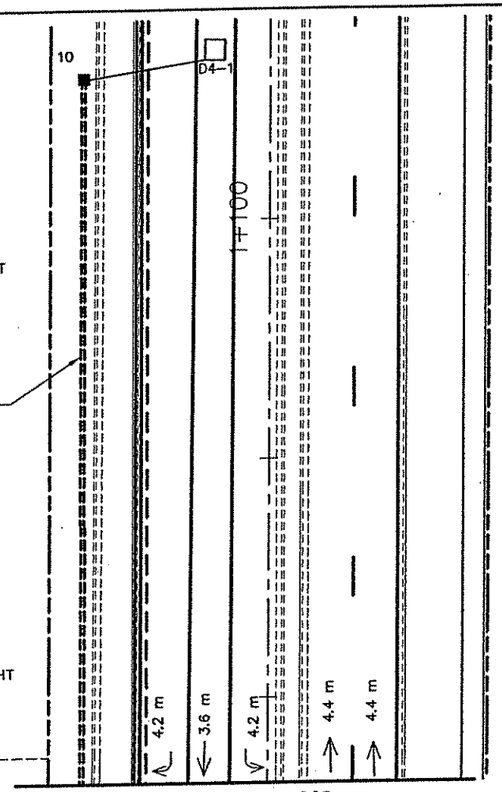
(2) TYPE PA90 POLE FOUNDATION
TYPE PA90-A-9.1-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
2 - ONE WAY SIGNALS OVERHEAD (0 m & 3.3 m FROM END OF MAST ARM)
2 - TYPE 10B POLE MOUNTED AT 90° & 180°
2 - PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D-1)
WITH PEC AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (ø4 & ø7) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 4:
78 mm RSC
2-12/C#12
4-3/C#12
1-3/C#20
1-3/C#12 (LUM)

53 mm RSC
1-2/C#14

(4) TYPE PA100 POLE FOUNDATION
TYPE PA100-A-15.2-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
2 - ONE WAY SIGNALS OVERHEAD (0 m & 5.1 m FROM END OF MAST ARM)
1 - TYPE 10B POLE MOUNTED AT 90°
1 - TYPE 10B POLE MOUNTED AT 270°
2 - PEDESTRIAN PUSHBUTTONS
INTERNALLY ILLUMINATED SIGN (D-1)
WITH PEC AND SIGN SWITCH ON POLE
ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (ø3 & ø8) (1.8 m FROM END OF MAST ARM)

EXTEND INTO HH 12:
78 mm RSC
2-12/C#12
4-3/C#12
1-3/C#20
1-3/C#12 (LUM)



Match Line H3

Coon Creek Blvd. (CSAH 18)
(45 mph)

(A) INSTALL CONTROLLER AND CABINET
(FURNISHED BY ANOKA COUNTY)
CABINET FOUNDATION

EXTEND INTO HH 17:
103 mm RSC
5-12/C#12
6-3/C#12
2-3/C#20
6-2/C#14

EXTEND INTO HH 1:
103 mm RSC
4-12/C#12
7-3/C#12
2-3/C#20
8-2/C#14

EXTEND INTO HH 18:
METERED SIGNAL SERVICE
35 mm RSC
3-1/C#6

EXTEND TO
FIBER-OPTIC VAULT:
78 mm RSC
*1-6/C FO CABLE

(B) SERVICE CABINET
CABINET FOUNDATION

EXTEND INTO HH 18:
METERED SIGNAL SERVICE
35 mm RSC
3-1/C#6

EXTEND INTO HH 17:
53 mm RSC
UNMETERED STREET LIGHT SERVICE
4-3/C#12 (LUM)
UNMETERED ILLUMINATED SIGN SERVICE
4-3/C#12

STUB OUT 53 mm RSC TO SOUTH
(FOR POWER BY CONNEXUS)



(5) PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
PEDESTRIAN PUSHBUTTON

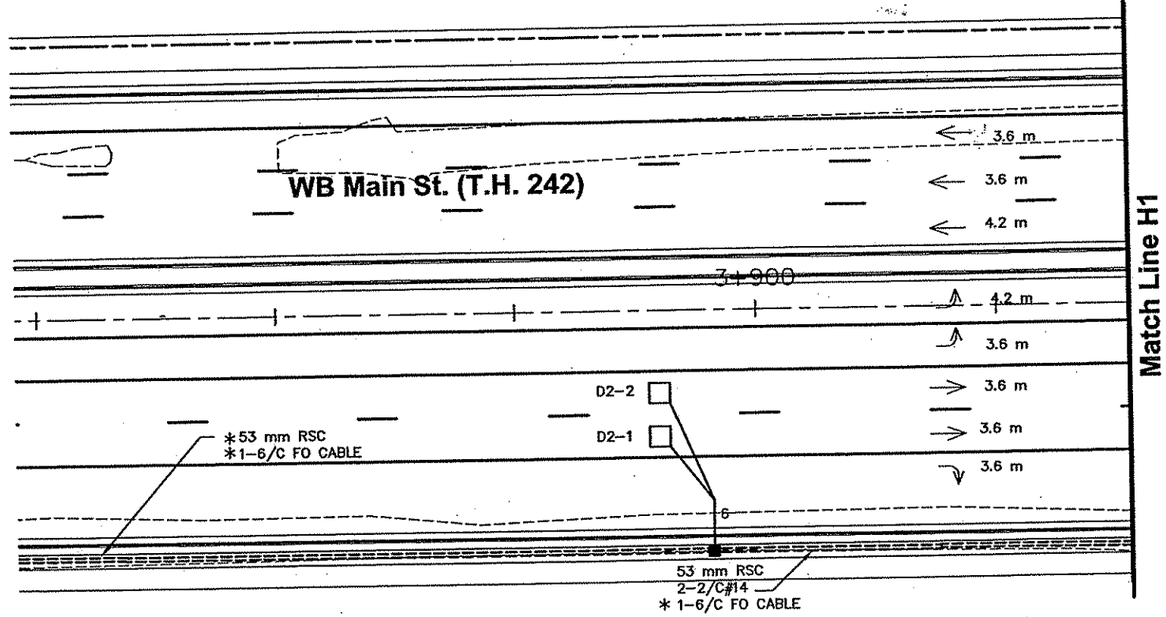
EXTEND INTO HH 7:
53 mm RSC
1-3/C#12

(6) PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
PEDESTRIAN PUSHBUTTON

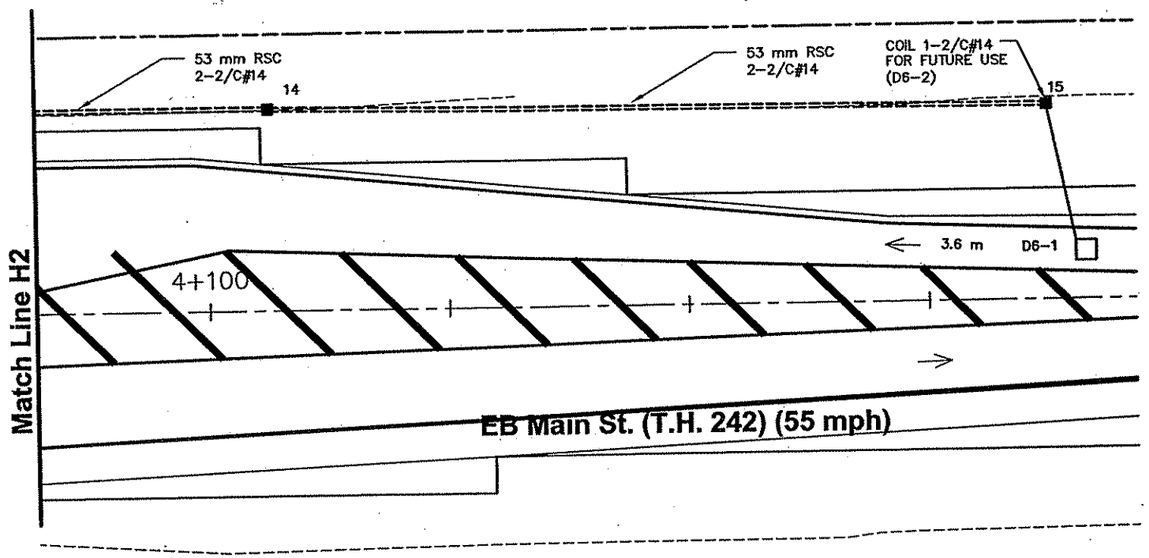
EXTEND INTO HH 16:
53 mm RSC
1-3/C#12

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* DENOTES ITEM INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)



Match Line H1



Match Line H2

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/2000	UPDATED POLE AND CONTROLLER CABINET NOTES
2	JRN	1/13/2000	UPDATED CONNECTION FOR POWER
3	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 7-LAY2
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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TRAFFIC SIGNAL SYSTEM "H"
MAIN ST. (T.H. 242) / COON CREEK BLVD.
INTERSECTION LAYOUT (MATCH LINES)

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 391 / 539

PLOT DATE: Jul 07, 2004 12:32pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\wdln\As-Built\7-lay2.dwg

F DRAWINGS

SAPBOX

CONDUCTOR COLOR CODING

R O BL WH R/BLK O/BLK BL/BLK WH/BLK BLK BLK/WH G/BLK G	12/c#12	BLK WH — 2-1/c#6 R WH BLK — 3/c#12 BLK CLEAR — 2/c#14 R OR O WH OR YEL BLK OR BL — 3/c#20

NOTE:
ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

CONTROLLER CABINET

1: RED 2–1, YEL 2–1, GRN 2–1, NEU 2–1, P2–2, WLK P2–2, DWK P2–2, SPR, NEU 5–1, RLTA 5–1, YLTA 5–1, GLTA 5–1, EQG

2: RLTA 7–2, YLTA 7–2, GLTA 7–2, NEU 7–2, RED 2–2, YEL 2–2, GRN 2–2, NEU 2–2,2–3, RED 2–3, YEL 2–3, GRN 2–3, EQG

3: RED 4–1, YEL 4–1, GRN 4–1, NEU 4–1, P4–3, WLK P4–3, DWK P4–3, SPR, NEU 1–2, RLTA 1–2, YLTA 1–2, GLTA 1–2, EQG

4: RED 4–2, YEL 4–2, GRN 4–2, NEU 4–2, RLTA 7–1, YLTA 7–1, GLTA 7–1, NEU 7–1, SPR, SPR, SPR, EQG

5: RED 8–2, YEL 8–2, GRN 8–2, NEU 8–2, P8–3, WLK P8–3, DWK P8–3, SPR, NEU 3–1, RLTA 3–1, YLTA 3–1, GLTA 3–1, EQG

6: RLTA 5–2, YLTA 5–2, GLTA 5–2, NEU 5–2, RED 8–1, YEL 8–1, GRN 8–1, NEU 8–1, SPR, SPR, SPR, EQG

7: 6–3 RED, 6–3 YEL, 6–3 GRN, 6–3, P6–2 NEU, P6–2 WLK, P6–2 DWK, SPR, 1–1 NEU, 1–1 RLTA, 1–1 YLTA, 1–1 GLTA, EQG

8: 6–1 RED, 6–1 YEL, 6–1 GRN, 6–1, 6–2 NEU, 6–2 RED, 6–2 YEL, 6–2 GRN, NUE, SPR, SPR, SPR, EQG

9: 3–2 RLTA, 3–2 YLTA, 3–2 GLTA, 3–2 NEU, SPR, P4–1 WLK, P4–1 DWK, P4–1 NEU, SPR, SPR, SPR, EQG

10: P8–1 WLK, P8–1 NEU, P8–1 DWK

11: PB2–2 NEU, PB8–1

12: P2–1 WLK, P2–1 NEU, P2–1 DWK

13: PB2–1 NEU, PB4–3

14: SPR, NEU, PB4–2

15: SPR, NEU, PB8–2

16: P6–1 WLK, P6–1 NEU, P6–1 DWK

17: PB6–1 NEU, PB8–3

18: PB6–2 NEU, PB4–1

19: ø2 & ø5 EVP LIGHT

20: ø2 & ø5 EVP DETECTOR

21: ø4 & ø7 EVP LIGHT

22: ø4 & ø7 EVP DETECTOR

23: ø3 & ø8 EVP LIGHT

24: ø3 & ø8 EVP DETECTOR

25: ø1 & ø6 EVP LIGHT

26: ø1 & ø6 EVP DETECTOR

27: D8–1

28: D8–2

29: D3–1

30: D3–2

31: D2–1

32: D2–2

33: D5–1

34: D5–2

35: D1–1

36: D6–1

37: (FUTURE USE) D6–2

38: D7–1

39: D4–2

40: D4–1

INTERCONNECT TO MAIN ST./T.H. 10 EAST RAMP SIGNAL SYSTEM "G" — 96

SIGNAL SERVICE — 49

(4–1) P4–3 (1–2) ② (4–2) (7–1)

P2–1 — 12

PB4–3 PB2–1 — 13 — 21 — TO EVP HUB — ø4 & ø7 EVP LIGHT

LUMINAIRE ② — 42 — 22 — TO EVP HUB — ø4 & ø7 EVP DETECTOR

SIGN 2 — 46

HH 4 — 31,32,96

HH 5 — 31,32,96

HH 6 — 31 — 32 — D2–1 D2–2

3,4,12–14,21,22,31–34,42,46,96

⑤ PB4–2 — 14

HH 7 — 14,33–34 — 33 — 34 — D5–1 D5–2

(2–1) P2–2 (5–1) (7–2) (2–2) (2–3) ① 1 2

P8–1 — 10

PB8–1 PB2–2 — 11 — 19 — TO EVP HUB — ø2 & ø5 EVP LIGHT

LUMINAIRE ① — 41 — 20 — TO EVP HUB — ø2 & ø5 EVP DETECTOR

45 — SIGN 1

HH 3 — 3,4,12–14,21,22, 29–34,42,46,96 — 29 — 30 — D3–1 D3–2

HH 1 — 1–4,10–14,19–22, 27–34 — 28 — 41,42, 45,46 — FROM HH 17

96 — FROM FO VAULT — D8–2

27

HH 2 — 27 — D8–1

96 — INTERCONNECT TO MAIN ST./T.H. 10 EAST RAMP SIGNAL SYSTEM "G"

(6–3) P6–2 (1–1) ③ (6–1) (6–2)

(3–2) P4–1

SIGN 3 — 47

7 8 9

PB6–2 PB4–1 — 18

25 — TO EVP HUB — ø1 & ø6 EVP LIGHT

26 — TO EVP HUB — ø1 & ø6 EVP DETECTOR

43 — LUMINAIRE ③

HH 8 — 39 — D4–2

40

HH 9 — 40 — HH 10 — 40 — D4–1

HH 11 — 38 — D7–1

7–9,18,25,26,39,40,43,47

(8–2) P8–3 (3–1) ④ (8–1) (5–2)

5 6

PB8–3 PB6–1 — 17 — P6–1 — 16

LUMINAIRE ④ — 44 — 23 — TO EVP HUB — ø3 & ø8 EVP LIGHT

SIGN 4 — 48 — 24 — TO EVP HUB — ø3 & ø8 EVP DETECTOR

96 — FIBER–OPTIC VAULT — 96 → TO HH 1

TO HH 1 — 41,42, 45,46

⑥

PB8–2 — 15

HH 16 — 35 — D1–1

HH 17

5–9, 15–18, 23–26, 35–40

5–9,15–18,23–26, 35–40,43,44,47,48

5–9,16–18,23–26, 36–40,43,44,47,48

HH 13

7–9,18,25,26, 38–40,43,47

HH 12

HH 14 — 36,37

HH 15 — 36 — 37 — D6–1 D6–2 (COIL FOR FUTURE USE)

41–48

7–9,18,25,26,38–40,43,47

SERVICE CABINET

41 — LUMINAIRE ① — LHT NEU PEC — SIGN 1 — 45 — 47 — LHT NEU PEC — SIGN 3

42 — LUMINAIRE ② — LHT NEU PEC — SIGN 2 — 46 — 48 — LHT NEU PEC — SIGN 4

43 — LUMINAIRE ③

44 — LUMINAIRE ④

SIGNALS NEUTRAL LIGHTING — 50 — 50 — SOP

HH 18 — 49 — 49 — SIGNAL SERVICE

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/00	ADDED WIRES FOR PB4–2 AND PB8–2
2	JRN	1/13/00	RENUMBERED CABLES
3	JRN	1/13/00	UPDATED HANDHOLE NUMBERING
4	JAS	4/30/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS — DESIGN BY: JRN
CHKED. BY: RJG — DWG. NAME: 7–WIRE
DATE: DECEMBER 21, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE 700 THIRD STREET SOUTH MINNEAPOLIS, MN 55415 (612)370–0700 (TEL) (612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "H"
MAIN ST. (T.H. 242) / COON CREEK BLVD.
FIELD WIRING DIAGRAM

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 392 / 539

PLOT DATE: Jul 07, 2004 12:40pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS ...din\As–Built\7–wire.dwg

7131

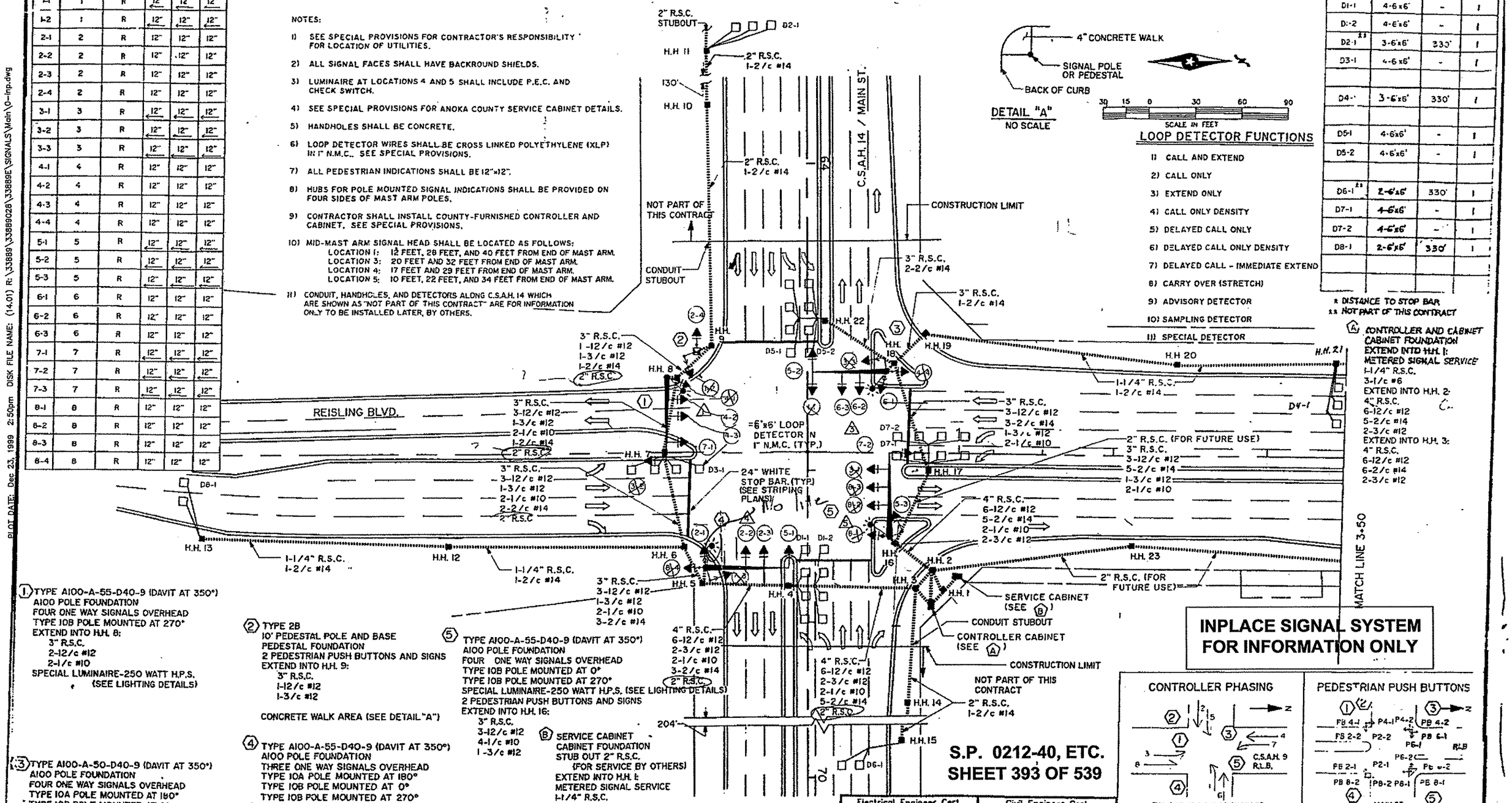
7131

SIGNAL INDICATIONS

FACE	PHASE	FLASH	R	Y	G
1-1	1	R	12"	12"	12"
1-2	1	R	12"	12"	12"
2-1	2	R	12"	12"	12"
2-2	2	R	12"	12"	12"
2-3	2	R	12"	12"	12"
2-4	2	R	12"	12"	12"
3-1	3	R	12"	12"	12"
3-2	3	R	12"	12"	12"
3-3	3	R	12"	12"	12"
4-1	4	R	12"	12"	12"
4-2	4	R	12"	12"	12"
4-3	4	R	12"	12"	12"
4-4	4	R	12"	12"	12"
5-1	5	R	12"	12"	12"
5-2	5	R	12"	12"	12"
5-3	5	R	12"	12"	12"
6-1	6	R	12"	12"	12"
6-2	6	R	12"	12"	12"
6-3	6	R	12"	12"	12"
7-1	7	R	12"	12"	12"
7-2	7	R	12"	12"	12"
7-3	7	R	12"	12"	12"
8-1	8	R	12"	12"	12"
8-2	8	R	12"	12"	12"
8-3	8	R	12"	12"	12"
8-4	8	R	12"	12"	12"

NOTES:

1) SEE SPECIAL PROVISIONS FOR CONTRACTOR'S RESPONSIBILITY FOR LOCATION OF UTILITIES.
2) ALL SIGNAL FACES SHALL HAVE BACKROUND SHIELDS.
3) LUMINAIRE AT LOCATIONS 4 AND 5 SHALL INCLUDE P.E.C. AND CHECK SWITCH.
4) SEE SPECIAL PROVISIONS FOR ANOKA COUNTY SERVICE CABINET DETAILS.
5) HANDHOLES SHALL BE CONCRETE.
6) LOOP DETECTOR WIRES SHALL BE CROSS LINKED POLYETHYLENE (XLP) IN 1" N.M.C., SEE SPECIAL PROVISIONS.
7) ALL PEDESTRIAN INDICATIONS SHALL BE 12"x12".
8) HUBS FOR POLE MOUNTED SIGNAL INDICATIONS SHALL BE PROVIDED ON FOUR SIDES OF MAST ARM POLES.
9) CONTRACTOR SHALL INSTALL COUNTY-FURNISHED CONTROLLER AND CABINET, SEE SPECIAL PROVISIONS.
10) MID-MAST ARM SIGNAL HEAD SHALL BE LOCATED AS FOLLOWS:
    LOCATION 1: 12 FEET, 28 FEET, AND 40 FEET FROM END OF MAST ARM.
    LOCATION 3: 20 FEET AND 32 FEET FROM END OF MAST ARM.
    LOCATION 4: 17 FEET AND 29 FEET FROM END OF MAST ARM.
    LOCATION 5: 10 FEET, 22 FEET, AND 34 FEET FROM END OF MAST ARM.
11) CONDUIT, HANDHOLES, AND DETECTORS ALONG C.S.A.H. 14 WHICH ARE SHOWN AS "NOT PART OF THIS CONTRACT" ARE FOR INFORMATION ONLY TO BE INSTALLED LATER, BY OTHERS.



LOOP DETECTORS

NUMBER	SIZE	LOC.*	FUNC
D1-1	4'x6'x6'	-	1
D1-2	4'x6'x6'	-	1
D2-1 **	3'x6'x6'	330'	1
D3-1	4'x6'x6'	-	1
D4-1	3'x6'x6'	330'	1
D5-1	4'x6'x6'	-	1
D5-2	4'x6'x6'	-	1
D6-1 **	2'x6'x6'	330'	1
D7-1	4'x6'x6'	-	1
D7-2	4'x6'x6'	-	1
D8-1	2'x6'x6'	330'	1

* DISTANCE TO STOP BAR
** NOT PART OF THIS CONTRACT

LOOP DETECTOR FUNCTIONS

1) CALL AND EXTEND
2) CALL ONLY
3) EXTEND ONLY
4) CALL ONLY DENSITY
5) DELAYED CALL ONLY
6) DELAYED CALL ONLY DENSITY
7) DELAYED CALL - IMMEDIATE EXTEND
8) CARRY OVER (STRETCH)
9) ADVISORY DETECTOR
10) SAMPLING DETECTOR
11) SPECIAL DETECTOR

(A) CONTROLLER AND CABINET CABINET FOUNDATION
EXTEND INTO H.H. 1:
METERED SIGNAL SERVICE
1-1/4" R.S.C.
3-1/c #6
EXTEND INTO H.H. 2:
4" R.S.C.
6-12/c #12
5-2/c #14
2-3/c #12
EXTEND INTO H.H. 3:
4" R.S.C.
6-12/c #12
6-2/c #14
2-3/c #12

(1) TYPE A100-A-55-D40-9 (DAVIT AT 350°)
A100 POLE FOUNDATION
FOUR ONE WAY SIGNALS OVERHEAD
TYPE 10B POLE MOUNTED AT 270°
EXTEND INTO H.H. 8:
3" R.S.C.
2-12/c #12
2-1/c #10
SPECIAL LUMINAIRE-250 WATT H.P.S. (SEE LIGHTING DETAILS)

(2) TYPE 2B
10' PEDESTAL POLE AND BASE
PEDESTAL FOUNDATION
2 PEDESTRIAN PUSH BUTTONS AND SIGNS
EXTEND INTO H.H. 9:
3" R.S.C.
1-12/c #12
1-3/c #12
CONCRETE WALK AREA (SEE DETAIL "A")

(3) TYPE A100-A-50-D40-9 (DAVIT AT 350°)
A100 POLE FOUNDATION
FOUR ONE WAY SIGNALS OVERHEAD
TYPE 10A POLE MOUNTED AT 180°
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
SPECIAL LUMINAIRE-250 WATT H.P.S. (SEE LIGHTING DETAILS)
2 PEDESTRIAN PUSH BUTTONS AND SIGNS
EXTEND INTO H.H. 18:
3" R.S.C.
3-12/c #12
2-1/c #10
1-3/c #12

(4) TYPE A100-A-55-D40-9 (DAVIT AT 350°)
A100 POLE FOUNDATION
THREE ONE WAY SIGNALS OVERHEAD
TYPE 10A POLE MOUNTED AT 180°
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
SPECIAL LUMINAIRE-250 WATT H.P.S. (SEE LIGHTING DETAILS)
2 PEDESTRIAN PUSH BUTTONS AND SIGNS
EXTEND INTO H.H. 5:
3" R.S.C.
3-12/c #12
4-1/c #10
1-3/c #12
CONCRETE WALK AREA (SEE DETAIL "A")

(5) TYPE A100-A-55-D40-9 (DAVIT AT 350°)
A100 POLE FOUNDATION
FOUR ONE WAY SIGNALS OVERHEAD
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
SPECIAL LUMINAIRE-250 WATT H.P.S. (SEE LIGHTING DETAILS)
2 PEDESTRIAN PUSH BUTTONS AND SIGNS
EXTEND INTO H.H. 16:
3" R.S.C.
3-12/c #12
4-1/c #10
1-3/c #12

(B) SERVICE CABINET
CABINET FOUNDATION
STUB OUT 2" R.S.C.
(FOR SERVICE BY OTHERS)
EXTEND INTO H.H. 1:
METERED SIGNAL SERVICE
1-1/4" R.S.C.
3-1/c #6
UNMETERED LIGHTING SERVICE
1-1/4" R.S.C.
4-1/c #10
BETWEEN H.H. 1 AND H.H. 2:
2" R.S.C.
4-1/c #10
BETWEEN H.H. 2 AND H.H. 3:
2" R.S.C.
2-1/c #10

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

THIS SHEET IN ENGLISH UNITS

CONTROLLER PHASING

PEDESTRIAN PUSH BUTTONS

S.P. 0212-40, ETC.
SHEET 393 OF 539

Electrical Engineer Cert.	Civil Engineer Cert.
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minnesota Statutes Sections 326.02 to 326.16.	I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16
Date 3/6/99 Minn. Reg. No. 18637	Date 3/5/99 Minn. Reg. No. 18095

BRW

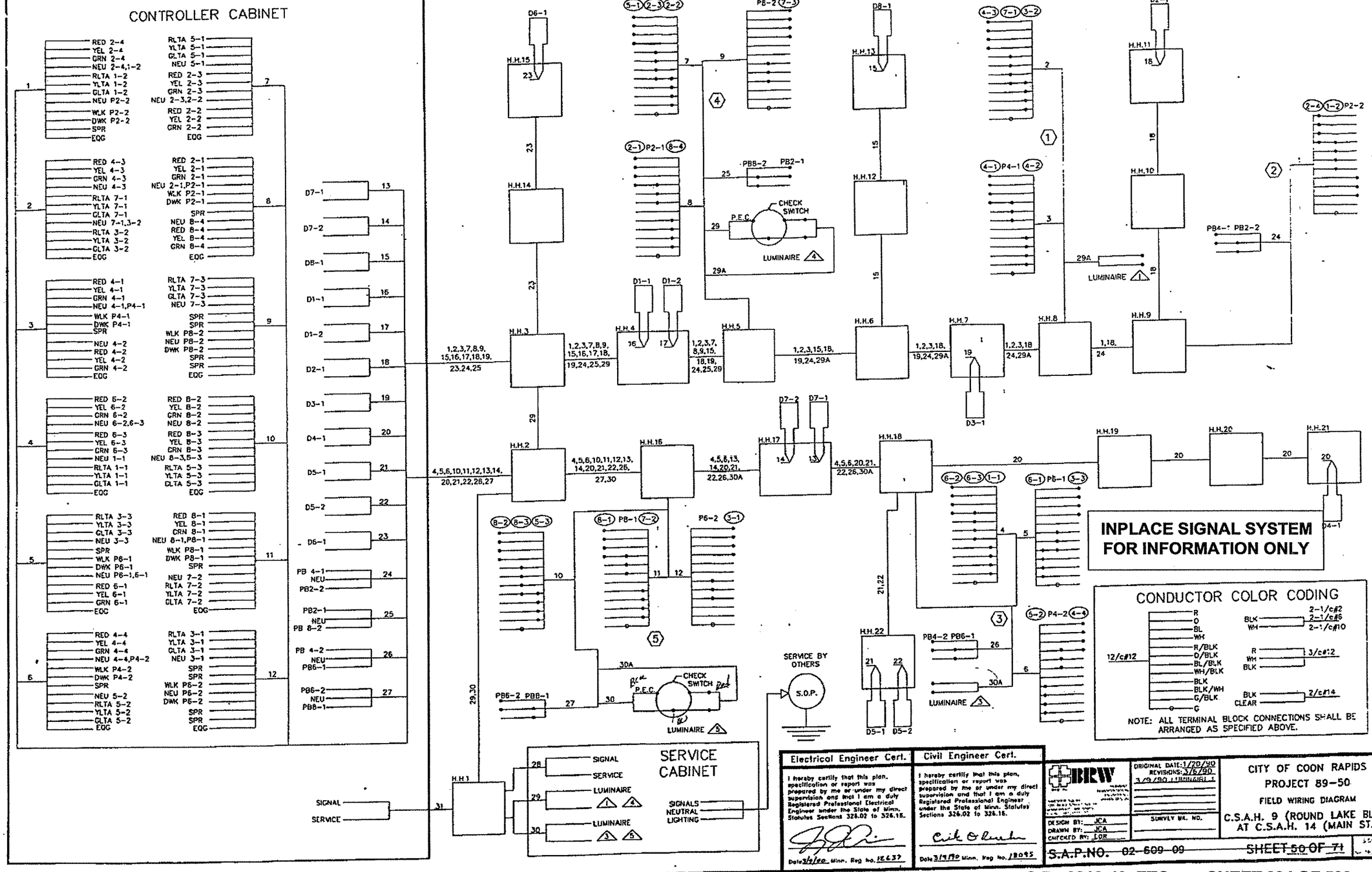
ORIGINAL DATE 1-7-99
REVISIONS 3-5-99
INITIAL

DESIGN BY:
DRAWN BY:
CHKED BY:
SURVEY BOOK

CITY OF COON RAPIDS
PROJECT 89-50
SIGNAL PLAN LAYOUT
C.S.A.H. 9 (ROUND LAKE BLVD.) C.S.A.H. 14 (MAIN STREET)

S.A.P. NO. 02-609-09 SHEET 49 OF 71

PLOT DATE: Dec 23, 1999 2:50pm DISK FILE NAME: (14:01) R:\33889\33889028\33889E\SIGNALS\Main\0-inp.dwg


CONTROLLER CABINET
RED 2-4
YEL 2-4
GRN 2-4
NEU 2-4,1-2
RLTA 1-2
YLTA 1-2
GLTA 1-2
NEU P2-2
WLK P2-2
DWK P2-2
SPR
EOG
RLTA 5-1
YLTA 5-1
GLTA 5-1
NEU 5-1
RED 2-3
YEL 2-3
GRN 2-3
NEU 2-3,2-2
RED 2-2
YEL 2-2
GRN 2-2
EOG
RED 4-3
YEL 4-3
GRN 4-3
NEU 4-3
RLTA 7-1
YLTA 7-1
GLTA 7-1
NEU 7-1,3-2
RLTA 3-2
YLTA 3-2
GLTA 3-2
EOG
RED 2-1
YEL 2-1
GRN 2-1
NEU 2-1,P2-1
WLK P2-1
DWK P2-1
SPR
NEU 8-4
RED 8-4
YEL 8-4
GRN 8-4
EOG
RED 4-1
YEL 4-1
GRN 4-1
NEU 4-1,P4-1
WLK P4-1
DWK P4-1
SPR
NEU 4-2
RED 4-2
YEL 4-2
GRN 4-2
EOG
RLTA 7-3
YLTA 7-3
GLTA 7-3
NEU 7-3
SPR
SPR
WLK P8-2
NEU P8-2
DWK P8-2
SPR
SPR
EOG
RED 5-2
YEL 5-2
GRN 6-2
NEU 6-2,6-3
RED 6-3
YEL 6-3
GRN 6-3
NEU 1-1
RLTA 1-1
YLTA 1-1
GLTA 1-1
EOG
RED 8-2
YEL 8-2
GRN 8-2
NEU 8-2
RED 8-3
YEL 8-3
GRN 8-3
NEU 8-3,5-3
RLTA 5-3
YLTA 5-3
GLTA 5-3
EOG
RLTA 3-3
YLTA 3-3
GLTA 3-3
NEU 3-3
SPR
WLK P6-1
DWK P6-1
NEU P6-1,6-1
RED 6-1
YEL 6-1
GRN 6-1
EOG
RED 8-1
YEL 8-1
GRN 8-1
NEU 8-1,P8-1
WLK P8-1
DWK P8-1
SPR
NEU 7-2
RLTA 7-2
YLTA 7-2
GLTA 7-2
EOG
RED 4-4
YEL 4-4
GRN 4-4
NEU 4-4,P4-2
WLK P4-2
DWK P4-2
SPR
NEU 5-2
RLTA 5-2
YLTA 5-2
GLTA 5-2
EOG
RLTA 3-1
YLTA 3-1
GLTA 3-1
NEU 3-1
SPR
SPR
WLK P6-2
NEU P6-2
DWK P6-2
SPR
SPR
EOG
1
2
3
4
5
6
7
8
9
10
11
12
D7-1
D7-2
D8-1
D1-1
D1-2
D2-1
D3-1
D4-1
D5-1
D5-2
D6-1
PB 4-1
NEU
PB2-2
PB2-1
NEU
PB 8-2
PB 4-2
NEU
PB6-1
PB6-2
NEU
PB8-1
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
SIGNAL
SERVICE
31
H.H.1
H.H.2
H.H.3
H.H.4
H.H.5
H.H.6
H.H.7
H.H.8
H.H.9
H.H.10
H.H.11
H.H.12
H.H.13
H.H.14
H.H.15
H.H.16
H.H.17
H.H.18
H.H.19
H.H.20
H.H.21
H.H.22
1,2,3,7,8,9,15,16,17,18,19,23,24,25
1,2,3,7,8,9,15,16,17,18,19,24,25,29
1,2,3,7,8,9,15,18,19,24,25,29
1,2,3,15,18,19,24,29A
1,2,3,18,19,24,29A
1,2,3,18,24,29A
1,18,24
4,5,6,10,11,12,13,14,20,21,22,26,27
4,5,6,10,11,12,13,14,20,21,22,26,27,30
4,5,8,13,14,20,21,22,26,30A
4,5,6,20,21,22,26,30A
21,22
29,30
29A
30A
P.E.C.
CHECK SWITCH
LUMINAIRE
PB8-2 PB2-1
PB4-2 PB6-1
PB6-2 PB8-1
PB4-1 PB2-2
SERVICE BY OTHERS
S.O.P.
SERVICE CABINET
SIGNAL
SERVICE
LUMINAIRE
SIGNALS
NEUTRAL
LIGHTING
INPLACE SIGNAL SYSTEM
FOR INFORMATION ONLY
CONDUCTOR COLOR CODING
R
O
BL
WH
R/BLK
O/BLK
BL/BLK
WH/BLK
BLK
BLK/WH
G/BLK
G
12/c#12
BLK
WH
2-1/c#2
2-1/c#6
2-1/c#10
R
WH
BLK
3/c#12
BLK
CLEAR
2/c#14
NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.
Electrical Engineer Cert.
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Electrical Engineer under the State of Minn. Statutes Sections 326.02 to 326.15.
Date 3/9/90 Minn. Reg No. 18637
Civil Engineer Cert.
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.15.
Date 3/9/90 Minn. Reg No. 18095
BRW
ORIGINAL DATE: 1/20/90
REVISIONS: 3/6/90
3/9/90 LUMINAIRE 1
DESIGN BY: JCA
DRAWN BY: JCA
CHECKED BY: LOR
SURVEY BK. NO.
CITY OF COON RAPIDS
PROJECT 89-50
FIELD WIRING DIAGRAM
C.S.A.H. 9 (ROUND LAKE BLVD)
AT C.S.A.H. 14 (MAIN ST.)
S.A.P.NO. 02-609-09
SHEET 50 OF 71
PLOT DATE: Dec 23, 1999 3:27pm DISK FILE NAME: (14.01) R:\33869\33869028\33899E\SIGNALS\Main\0-Inp2.dwg

(1) 50' WOOD POLE – CL 2
2–DOWNGUY, GUARD AND ANCHOR
15' LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH P.E.C.
TYPE 10B POLE MOUNTED AT 0°
TYPE 30A POLE MOUNTED AT 90°
2–PEDESTRIAN PUSHBUTTONS AND SIGNS
METAL JUNCTION BOX #1
2" RSC BELOW J.B. #1 TO HH 1
1–12/C #12
1–3/C #12
2–3" RSC RISERS AND WEATHERHEADS
INTO HH 1
8–12/C #12
2–3/C #12 (LUM)
5–2/C #14
1–6PR #19
5–3/C #12
1" RSC RISER AND WEATHERHEAD
ABOVE SPAN WIRE
1–3/C #12 (LUM)

(2) 50' WOOD POLE – CL 2
2–DOWNGUY, GUARD AND ANCHOR
2–TYPE 10B POLE MOUNTED AT 0° & 270°
2–PEDESTRIAN PUSHBUTTONS AND SIGNS
METAL JUNCTION BOX #2
2" RSC BELOW J.B. #2 TO HH 2
1–2/C #14
1–6PR #19

2" RSC RISER AND WEATHERHEAD
ABOVE J.B. #4
1–12/C #12
1–2/C #14
1–6PR #19
2–3/C #12

(3) 50' WOOD POLE – CL 2
2–DOWNGUY, GUARD AND ANCHOR
15' LUMINAIRE MAST ARM
LUMINAIRE – 250W H.P.S. WITH P.E.C.
TYPE 10A POLE MOUNTED AT 270°
TYPE 10B POLE MOUNTED AT 0°
PEDESTRIAN PUSHBUTTONS AND SIGNS
METAL JUNCTION BOX #3
2" RSC BELOW J.B. #3 TO HH 5
2–2/C #14

2" RSC RISER AND WEATHERHEAD
ABOVE J.B. #3
1–12/C #12
2–2/C #14
2–3/C #12

(4) 50' WOOD POLE – CL 2
2–DOWNGUY, GUARD AND ANCHOR
TYPE 10A POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
PEDESTRIAN PUSHBUTTONS AND SIGNS

METAL JUNCTION BOX #4
2" RSC BELOW J.B. #4 TO HH 6
2–2/C #14

2" RSC RISER AND WEATHERHEAD
ABOVE J.B. #4
1–12/C #12
2–2/C #14
1–3/C #12

(A) CABINET FOUNDATION
INSTALL CONTROLLER AND CABINET
(FURNISHED BY ANOKA COUNTY)

CABINET TO HH 1
2–3" RSC
9–12/C #12
8–2/C #14
6–3/C #12
2" RSC
1–6PR #19

CABINET TO HH 9
1 1/4" RSC
3–1/C #6
1–1/C #6 BR GR

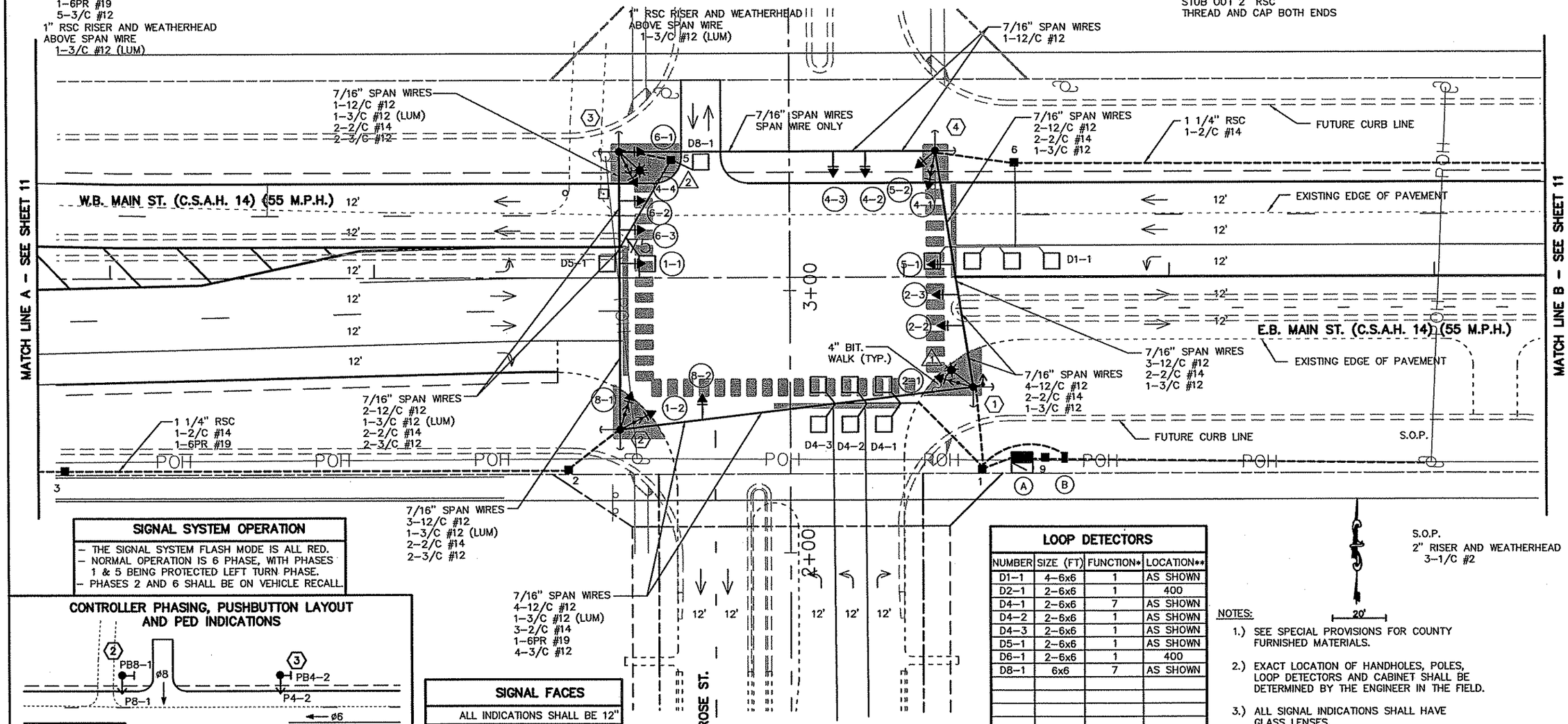
STUB OUT 2" RSC
THREAD AND CAP BOTH ENDS

(B) SERVICE CABINET
CABINET FOUNDATION

EXTEND TO S.O.P.
2" RSC
3–1/C #2

SERVICE TO HH 9
1 1/4" RSC
3–1/C #6
1–1/C #6 BR GR

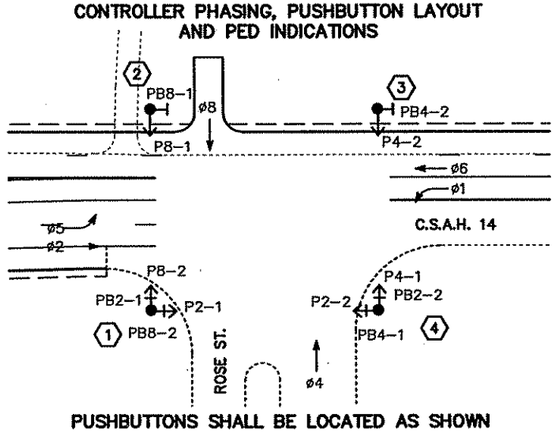
SERVICE CABINET TO HH 1
2–3/C #12 (LUM)



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE, WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASE.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL FACES

ALL INDICATIONS SHALL BE 12"

SIGNAL FACE	R	Y	G
1–1, 1–2	←	←	←
2–1, 2–2, 2–3	●	●	●
4–1, 4–2, 4–3, 4–4	●	●	●
5–1, 5–2	←	←	←
6–1, 6–2, 6–3	●	●	●
8–1, 8–2	●	●	●

THIS SHEET IN ENGLISH UNITS

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

LOOP DETECTORS

NUMBER	SIZE (FT)	FUNCTION*	LOCATION**
D1–1	4–6x6	1	AS SHOWN
D2–1	2–6x6	1	400
D4–1	2–6x6	7	AS SHOWN
D4–2	2–6x6	1	AS SHOWN
D4–3	2–6x6	1	AS SHOWN
D5–1	2–6x6	1	AS SHOWN
D6–1	2–6x6	1	400
D8–1	6x6	7	AS SHOWN

*LOOP DETECTOR FUNCTIONS
1) CALL & EXTEND
3) EXTEND ONLY
7) DELAY CALL/IMMEDIATE EXTEND

LOCATION = DISTANCE IN FEET FROM CROSSWALK OR STOP BAR TO FRONT OF LOOP DETECTOR

S.O.P.
2" RISER AND WEATHERHEAD
3–1/C #2
20'

NOTES:

1.) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.

2.) EXACT LOCATION OF HANDHOLES, POLES, LOOP DETECTORS AND CABINET SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

3.) ALL SIGNAL INDICATIONS SHALL HAVE GLASS LENSES.

4.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.

5.) HANDHOLES SHALL BE CONCRETE.

6.) LOOP DETECTORS SHALL BE INSTALLED IN NMC. SEE SPECIAL PROVISIONS.

7.) PEDESTRIAN INDICATIONS SHALL BE 12" BY 12". SIGNS SHALL BE PROVIDED BY ANOKA COUNTY. SEE SPECIAL PROVISIONS.

S.P. 0212-40, ETC. SHEET 395 OF 593

REV. NO.	DATE	DESCRIPTION
1	4–18–98	PER ANOKA COUNTY COMMENTS

DESIGN FILE: 3193A10
DRAWN BY: JAS
DESIGN BY: RJG
CHKED. BY: RJG
DWG. NAME: LAYOUT
DATE:

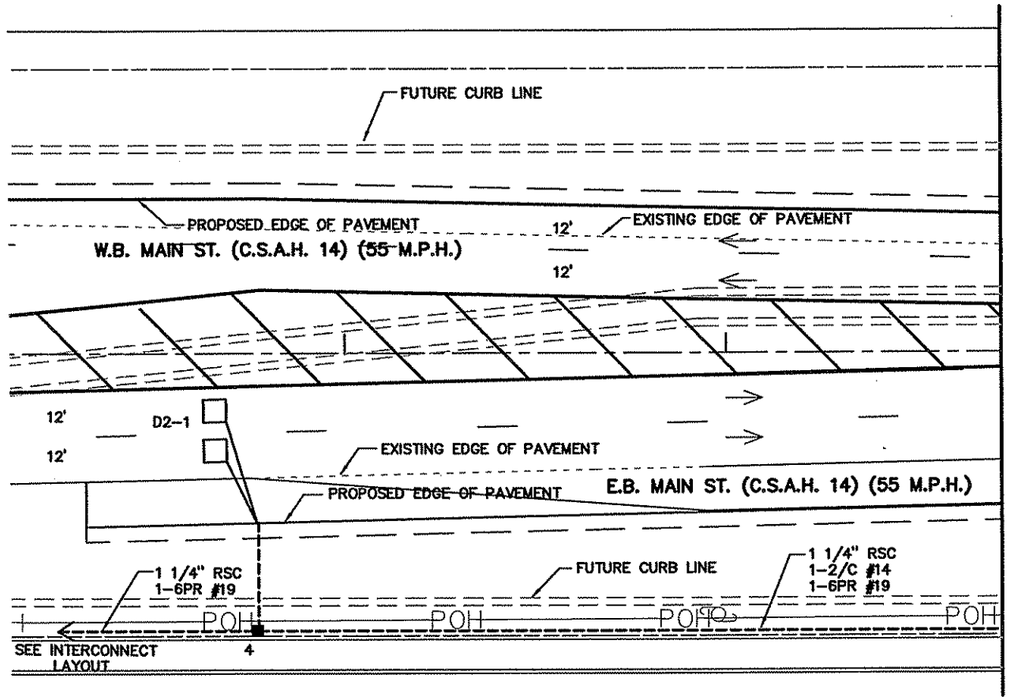
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA STATUTES SECTION 326.02 TO 326.16.
DATE: 4–18–98 MINN. REG. NO. 22783

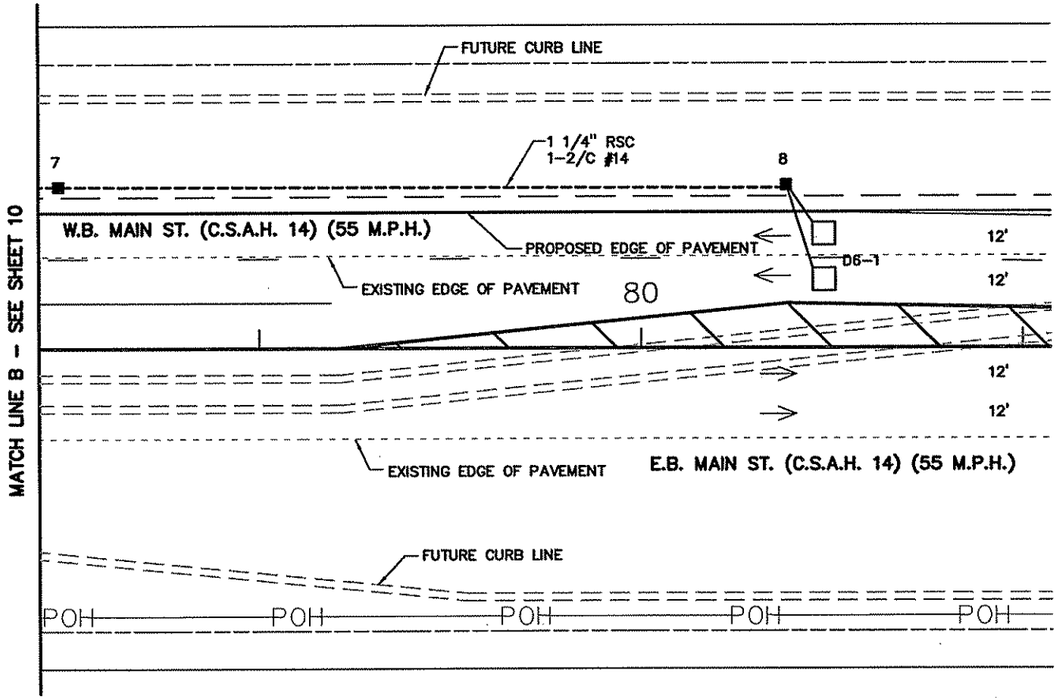
B R W
B R W INC.
Thrasher Square, 700 Third Street So.
Minneapolis, MN 55415, Phone 612/370-0700, Fax 612/370-1378

CITY OF COON RAPIDS
TEMPORARY SIGNAL / STREET IMPROVEMENTS
~~CITY PROJECT 95–290~~
C.S.A.H. / ROSE STREET
INTERSECTION LAYOUT

SHEET NO.

(14.01) R:\33889\33889028\33889E\SIGNALS\Main\T-lnp.dwg
Dec 23, 1999







THIS SHEET IN ENGLISH UNITS

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

REV. NO.	DATE	DESCRIPTION
1	4-16-98	PER ANOKA COUNTY COMMENTS

DESIGN FILE: 3193A10
DRAWN BY: JAS
DESIGN BY: RJG
CHKED. BY: RJG
DWG. NAME: LAYOUT2
DATE:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA STATUTES SECTION 326.02 TO 326.16.

DATE 4-16-98 MINN. REG. NO. 22783

B R W INC.
Thresher Square, 700 Third Street So.
Minneapolis, MN 55415, Phone 612/370-0700, Fax 612/370-1375

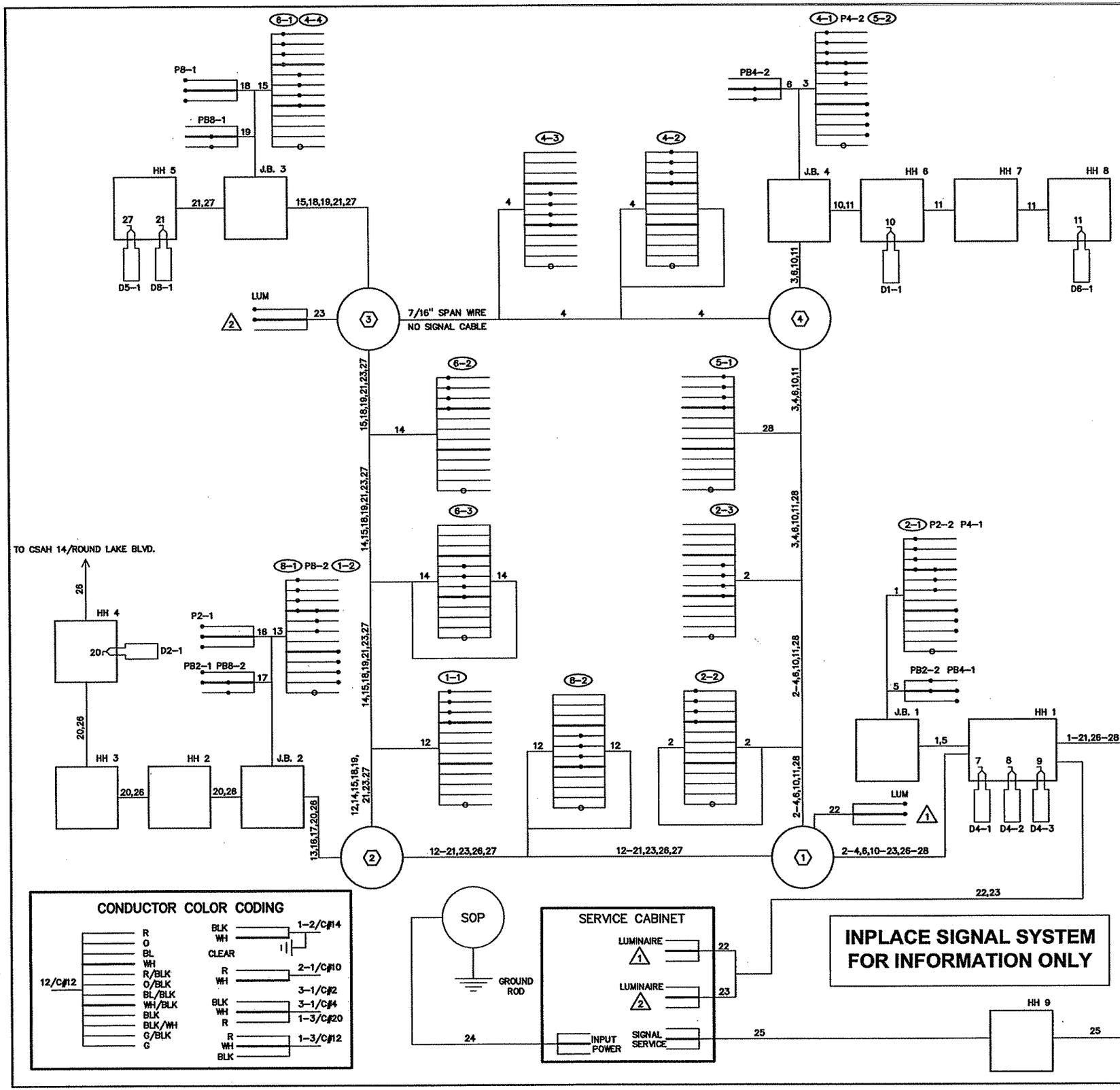
CITY OF COON RAPIDS

TEMPORARY SIGNAL / STREET IMPROVEMENTS
~~CITY PROJECT 95-200~~

C.S.A.H. 14 / ROSE STREET
INTERSECTION LAYOUT

SHEET NO. — / —

(14.01) R:\33689\33889028\33889E\SIGNALS\Main\1-lnp2.dwg
Dec 23, 1999 3:



REV. NO.	DATE	DESCRIPTION
1	4–16–98	PER ANOKA COUNTY COMMENTS

DESIGN FILE: 3193A10
DRAWN BY: JAS
DESIGN BY: RJG
CHKED. BY: RJG
DWG. NAME: WIRE
DATE:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA STATUTES SECTION 326.02 TO 326.16.

DATE: 4–16–98 MINN. REG. NO. 22793

B R W

B E W INC.
Traveler Square, 700 Third Street So.
Minneapolis, MN 55415, Phone 612/370-0700, Fax 612/370-1378

CITY OF COON RAPIDS

TEMPORARY SIGNAL / STREET IMPROVEMENTS
~~CITY PROJECT 95–298~~

C.S.A.H. 14 / ROSE STREET
FIELD WIRING DIAGRAM

SHEET NO. — —

S.P. 0212-40, ETC. SHEET 397 OF 539

(14.01) R:\33889\33889028\33889E\SIGNALS\Main\1-Inp3.dwg
Dec 23, 1999 ...3pm

LOOP DETECTORS

NUMBER	SIZE (m)	LOCATION (m)	FUNCTION	TYPE
D1-1	1.7 X 1.7	15	1	SAWCUT
D2-1	2-1.7 X 1.7	145	1	SAWCUT
D3-1	1.7 X 1.7	12	1	SAWCUT
D4-1	2-1.7 X 1.7	44	3 & 8	PVC
D4-2	2-1.7 X 1.7	AS SHOWN	7	SAWCUT
D4-3	1.7 X 1.7	3.5	1	SAWCUT
D5-1	1.7 X 1.7	15	1	SAWCUT
D6-1	2-1.7 X 1.7	145	1	SAWCUT
D7-1	1.7 X 1.7	12	1	SAWCUT
D8-1	2-1.7 X 1.7	47	3 & 8	PVC
D8-2	2-1.7 X 1.7	AS SHOWN	7	SAWCUT
D8-3	1.7 X 1.7	3.5	1	SAWCUT

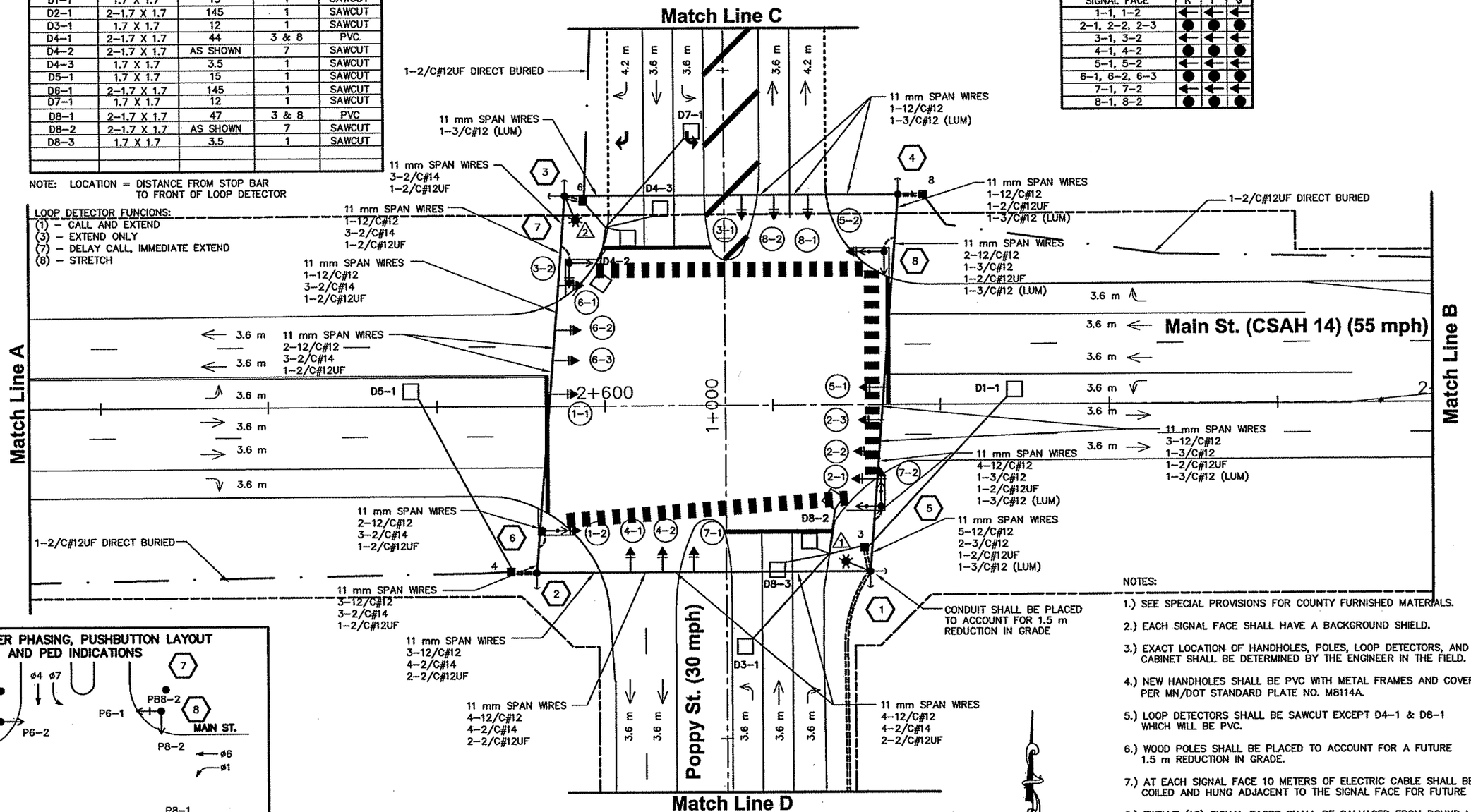
NOTE: LOCATION = DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR

LOOP DETECTOR FUNCIONS:
(1) – CALL AND EXTEND
(3) – EXTEND ONLY
(7) – DELAY CALL, IMMEDIATE EXTEND
(8) – STRETCH

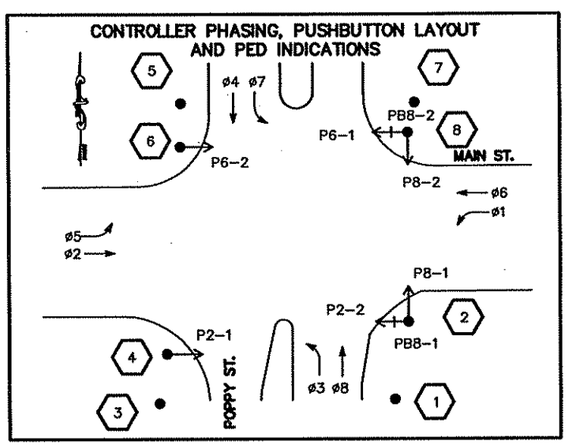
SIGNAL FACES

ALL INDICATIONS SHALL BE 300 mm

SIGNAL FACE	R	Y	G
1-1, 1-2	←	←	←
2-1, 2-2, 2-3	●	●	●
3-1, 3-2	←	←	←
4-1, 4-2	●	●	●
5-1, 5-2	←	←	←
6-1, 6-2, 6-3	●	●	●
7-1, 7-2	←	←	←
8-1, 8-2	●	●	●



CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5 & 7 BEING PROTECTED LEFT TURN PHASES.
- PHASES 2 AND 6 SHALL BE ON PEDESTRIAN RECALL.

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

0 5 10
SCALE IN METERS
HOR. 1=500

NOTES:

1.) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.

2.) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.

3.) EXACT LOCATION OF HANDHOLES, POLES, LOOP DETECTORS, AND CABINET SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

4.) NEW HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS PER MN/DOT STANDARD PLATE NO. M8114A.

5.) LOOP DETECTORS SHALL BE SAWCUT EXCEPT D4-1 & D8-1 WHICH WILL BE PVC.

6.) WOOD POLES SHALL BE PLACED TO ACCOUNT FOR A FUTURE 1.5 m REDUCTION IN GRADE.

7.) AT EACH SIGNAL FACE 10 METERS OF ELECTRIC CABLE SHALL BE COILED AND HUNG ADJACENT TO THE SIGNAL FACE FOR FUTURE USE.

8.) TWELVE (12) SIGNAL FACES SHALL BE SALVAGED FROM ROUND LAKE BLVD. / T.H. 10 SOUTH RAMP SIGNAL SYSTEM, SYSTEM "C", AND USED USED WITH THIS SIGNAL SYSTEM. SIX (6) SIGNAL FACES WILL BE FURNISHED BY THE COUNTY.

9.) CONTRACTOR SHALL FURNISH AND INSTALL NEW SERVICE EQUIPMENT INCLUDING METER SOCKET AND DISCONNECT SWITCH ON WOOD POLE.

S.P. 0212-40, ETC. SHEET OF

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	RJG	5/20/99	ADDENDUM NO. 1

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: RLBSI05
DATE: MAY 20, 1999

XREF DRAWINGS

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Robert J. Green
DATE: 5/20/99 MINN. REG. NO. 22793

ROUND LAKE BOULEVARD IMPROVEMENT PROJECT
SIGNAL SYSTEM "D"
MAIN ST. (T.H. 242) / POPPY ST.
INTERSECTION LAYOUT

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

		SHEET NO.
CITY PROJECT	~~99-18~~	398
COUNTY PROJECT	-	539
S.P.	-	
S.A.P.	-	

PLOT DATE: Dec 23, 1999 DISK FILE NAME: (14.01) R:\33889\33889028\33889\SIGNALS\Main\2-tsp.dwg

(1) 16.8 m WOOD POLE CL 2
2 – DOWNGUY, GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250 W H.P.S. WITH P.E.C. AND CHECK SWITCH

METAL JUNCTION BOX #1
35 mm RSC BELOW J.B. #1 TO HH 3
4–2/C#14

53 mm RISER AND WEATHERHEAD ABOVE J.B. #1
4–2/C#14

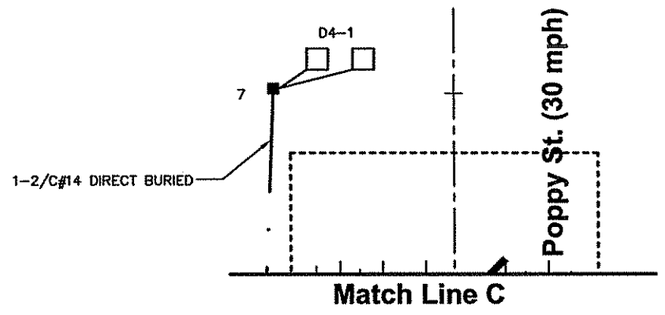
2 – 78 mm RSC RISERS AND WEATHERHEADS TO HH 1
9–12/C#12
2–3/C#3
8–2/C#14
3–2/C#12UF
2–3/C#12 (LUM)

27 mm RSC RISER AND WEATHERHEAD ABOVE SPAN WIRE
1–3/C#12 (LUM)

(2) 16.8 m WOOD POLE CL 2
2 – DOWNGUY, GUARD AND ANCHOR

METAL JUNCTION BOX #2
35 mm RSC BELOW J.B. #2 TO HH 4
1–2/C#14
1–2/C#12UF

53 mm RSC RISER AND WEATHERHEAD ABOVE J.B. 2
1–2/C#14
1–2/C#12UF



(5) PEDESTAL FOUNDATION
PEDESTAL POLE & BASE
1 – TYPE 1D PEDESTAL MOUNTED
1 – PEDESTRIAN PUSHBUTTON

AERIAL CONNECTION TO SPAN WIRE:
1–12/C#12
1–3/C#12

(7) PEDESTAL FOUNDATION
PEDESTAL POLE & BASE
1 – TYPE 1C PEDESTAL MOUNTED
1 – "DO NOT CROSS" SIGN (R9–3A) FACING POLE NO. 6

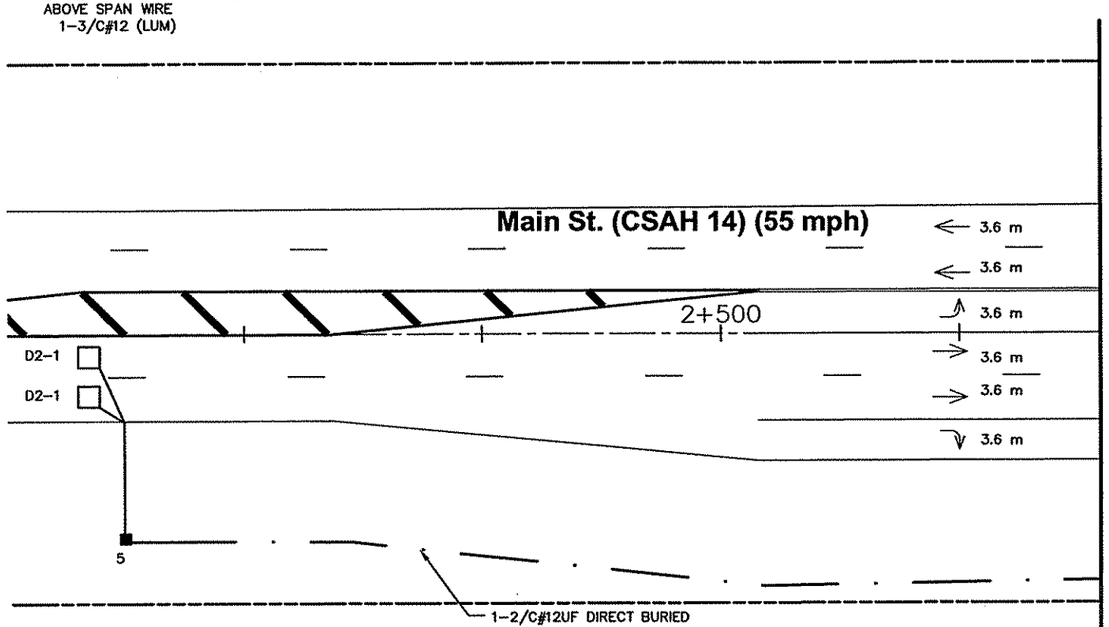
AERIAL CONNECTION TO SPAN WIRE:
1–12/C#12

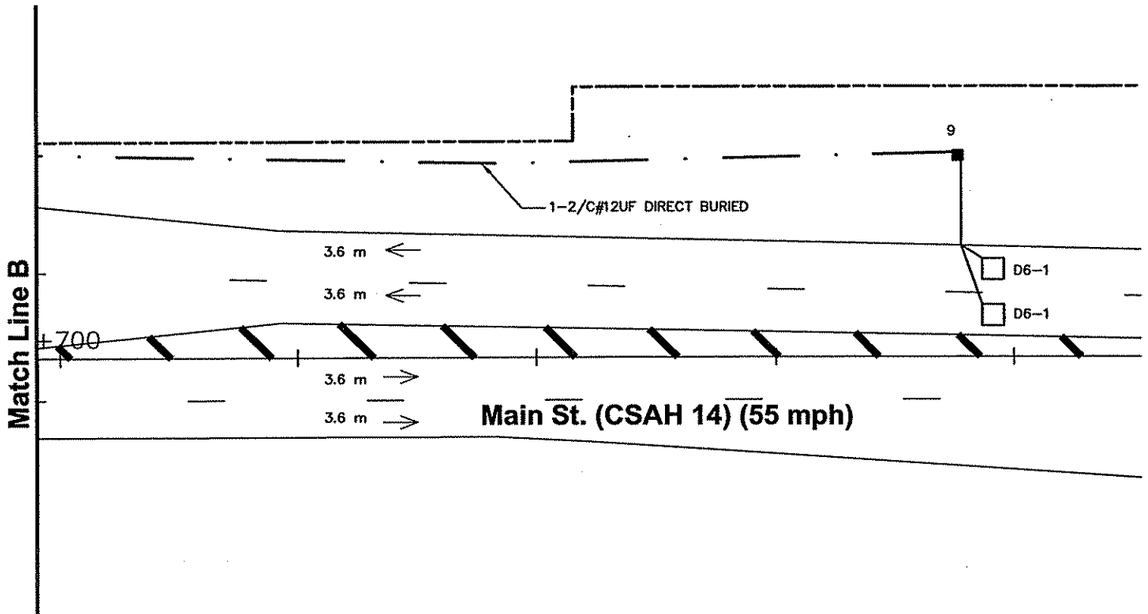
(6) PEDESTAL FOUNDATION
PEDESTAL POLE & BASE
1 – TYPE 1C PEDESTAL MOUNTED
1 – "DO NOT CROSS" SIGN (R9–3A) FACING POLE NO. 7

AERIAL CONNECTION TO SPAN WIRE:
1–12/C#12

(8) PEDESTAL FOUNDATION
PEDESTAL POLE & BASE
1 – TYPE 1D PEDESTAL MOUNTED
1 – PEDESTRIAN PUSHBUTTON

AERIAL CONNECTION TO SPAN WIRE:
1–12/C#12
1–3/C#12





(3) 16.8 m WOOD POLE CL 2
2 – DOWNGUY, GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE – 250 W H.P.S. WITH P.E.C. AND CHECK SWITCH

METAL JUNCTION BOX #3
35 mm RSC BELOW J.B. #3 TO HH 6
3–2/C#14
1–2/C#12UF

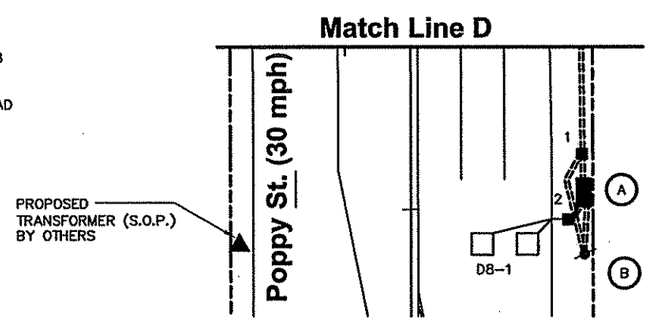
53 mm RSC AND WEATHERHEAD ABOVE J.B. #3
3–2/C#14
1–2/C#12UF

27 mm RSC RISER AND WEATHERHEAD ABOVE SPAN WIRE
1–3/C#12 (LUM)

(4) 16.8 m WOOD POLE CL 2
2 – DOWNGUY, GUARD AND ANCHOR

METAL JUNCTION BOX #4
35 mm RSC BELOW J.B. #4 TO HH 8
1–2/C#12UF

53 mm RSC RISER AND WEATHERHEAD ABOVE J.B. 4
1–2/C#12UF



(A) INSTALL CONTROLLER AND CABINET (FURNISHED BY ANOKA COUNTY)
CABINET FOUNDATION

EXTEND INTO HH 1:
2–78 mm RSC
9–12/C#12
2–3/C#3
8–2/C#14
3–2/C#12UF
2–3/C#12 (LUM)

EXTEND INTO HH 2:
53 mm RSC
1–2/C#14

EXTEND INTO SERVICE EQUIPMENT:
27 mm RSC
3–1/C#6

(B) SERVICE EQUIPMENT
(METER SOCKET AND DISCONNECT SWITCH)
4.5 m WOOD POLE CL. 2

STUB OUT 53 mm RSC BELOW SERVICE EQUIPMENT (FOR POWER BY CONNEXUS)

27 mm RSC BELOW SERVICE EQUIPMENT TO CONTROLLER AND CABINET
3–1/C#6

27 mm RSC BELOW SERVICE EQUIPMENT TO HH 1
2–3/C#12 (LUM)

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY



S.P. 0212-40, ETC. SHEET OF

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	RJG	5/20/99	ADDENDUM NO. 1

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: RLBSI06
DATE: MAY 20, 1999

XREF DRAWINGS

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

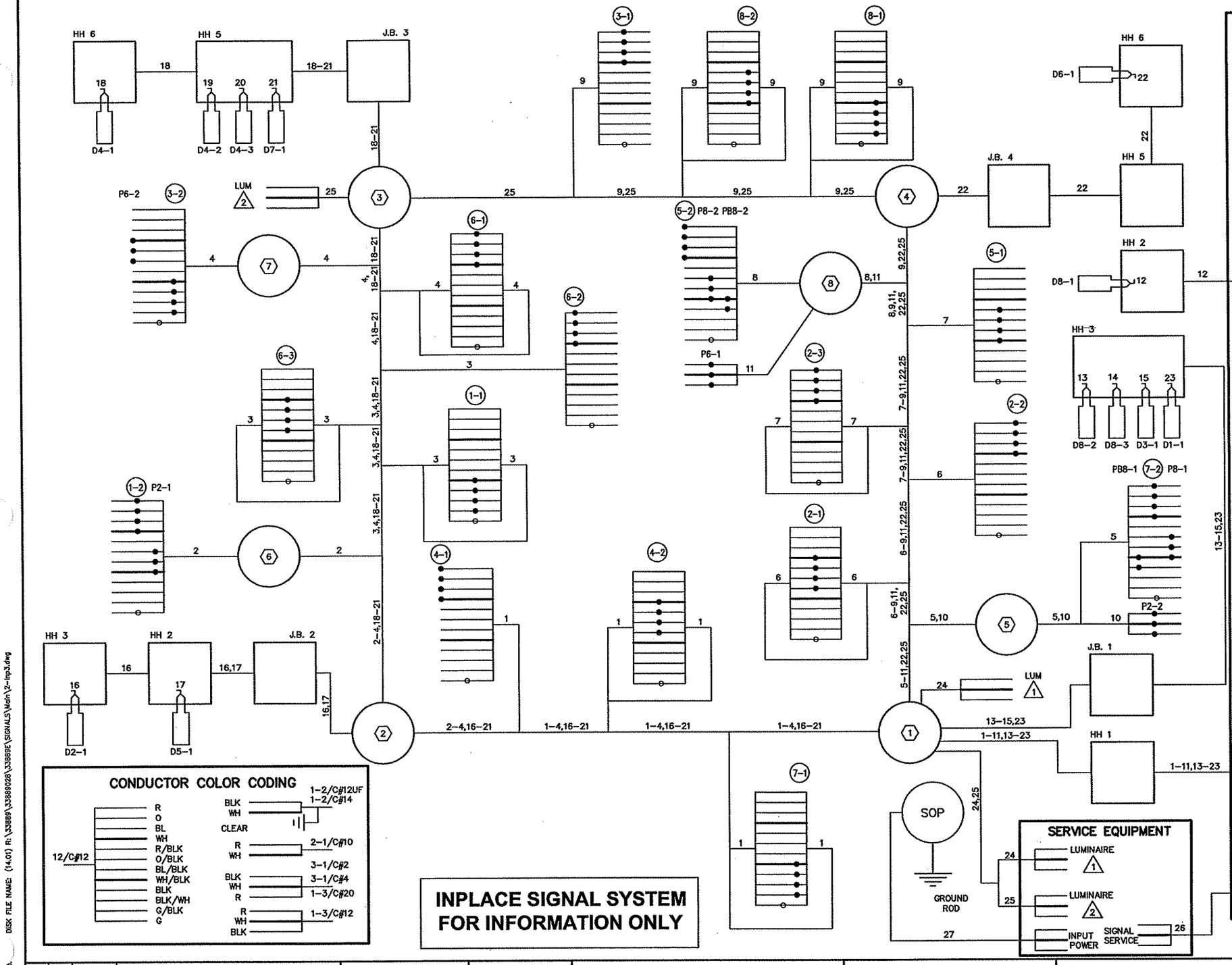
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Robert J. Green
DATE: 5/20/99 MINN. REG. NO. 22793

ROUND LAKE BOULEVARD IMPROVEMENT PROJECT
SIGNAL SYSTEM "D"
MAIN ST. (T.H. 242) / POPPY ST.
INTERSECTION LAYOUT (MATCHLINES)

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

CITY PROJECT	~~99–18~~	SHEET NO. 399
COUNTY PROJECT	–	539
S.P.	–	
S.A.P.	–	

PLOT DATE: Dec 23, 1999
DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\2-insp2.dwg



S.P. 0212-40, ETC. SHEET OF

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	RJG	5/20/99	ADDENDUM NO. 1

DESIGN FILE: 338890300101
DRAWN BY: JAS
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: RLBSI09
DATE: MAY 20, 1999

XREF DRAWINGS

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Robert J. Green
DATE: 5/20/99 MINN. REG. NO. 22793

ROUND LAKE BOULEVARD IMPROVEMENT PROJECT
SIGNAL SYSTEM "D"
MAIN ST. (CSAH 14) / POPPY ST.
FIELD WIRING DIAGRAM

ALL QUANTITIES AND DIMENSIONS ON PLAN ARE IN METRIC UNITS.

CITY PROJECT	~~99-18~~
COUNTY PROJECT	–
S.P.	–
S.A.P.	–

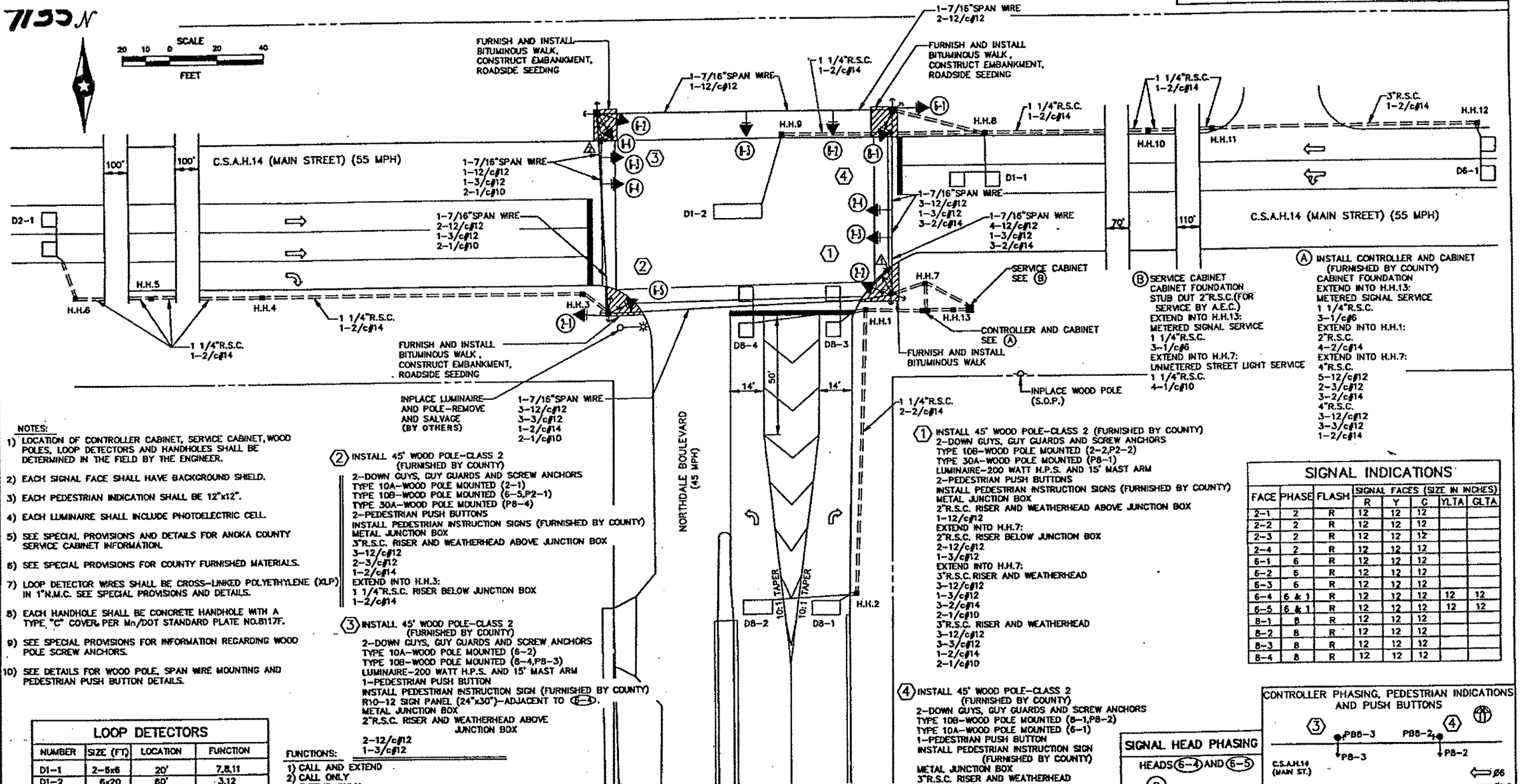
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Fed. Project No. 7133

7133N

SCALE 20 10 0 20 40 FEET



NOTES:

1) LOCATION OF CONTROLLER CABINET, SERVICE CABINET, WOOD POLES, LOOP DETECTORS AND HANDHOLES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2) EACH SIGNAL FACE SHALL HAVE BACKGROUND SHIELD.
3) EACH PEDESTRIAN INDICATION SHALL BE 12"x12".
4) EACH LUMINAIRE SHALL INCLUDE PHOTOELECTRIC CELL.
5) SEE SPECIAL PROVISIONS AND DETAILS FOR ANOKA COUNTY SERVICE CABINET INFORMATION.
6) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
7) LOOP DETECTOR WIRES SHALL BE CROSS-LINKED POLYETHYLENE (XLP) IN 1"N.M.C. SEE SPECIAL PROVISIONS AND DETAILS.
8) EACH HANDHOLE SHALL BE CONCRETE HANDHOLE WITH A TYPE "C" COVER, PER Mn/DOT STANDARD PLATE NO.8117F.
9) SEE SPECIAL PROVISIONS FOR INFORMATION REGARDING WOOD POLE SCREW ANCHORS.
10) SEE DETAILS FOR WOOD POLE, SPAN WIRE MOUNTING AND PEDESTRIAN PUSH BUTTON DETAILS.

(1) INSTALL 45' WOOD POLE-CLASS 2 (FURNISHED BY COUNTY)
2-DOWN GUYS, GUY GUARDS AND SCREW ANCHORS
TYPE 10B-WOOD POLE MOUNTED (2-2,P2-2)
TYPE 30A-WOOD POLE MOUNTED (P8-1)
LUMINAIRE-200 WATT H.P.S. AND 15' MAST ARM
2-PEDESTRIAN PUSH BUTTONS
INSTALL PEDESTRIAN INSTRUCTION SIGNS (FURNISHED BY COUNTY)
METAL JUNCTION BOX
2"R.S.C. RISER AND WEATHERHEAD ABOVE JUNCTION BOX
1-12/c#12
EXTEND INTO H.H.7:
2"R.S.C. RISER BELOW JUNCTION BOX
2-12/c#12
1-3/c#12
EXTEND INTO H.H.7:
3"R.S.C. RISER AND WEATHERHEAD
3-12/c#12
1-3/c#12
3-2/c#14
2-1/c#10
3"R.S.C. RISER AND WEATHERHEAD
3-12/c#12
3-3/c#12
1-2/c#14
2-1/c#10

(2) INSTALL 45' WOOD POLE-CLASS 2 (FURNISHED BY COUNTY)
2-DOWN GUYS, GUY GUARDS AND SCREW ANCHORS
TYPE 10A-WOOD POLE MOUNTED (2-1)
TYPE 10B-WOOD POLE MOUNTED (6-5,P2-1)
TYPE 30A-WOOD POLE MOUNTED (P8-4)
2-PEDESTRIAN PUSH BUTTONS
INSTALL PEDESTRIAN INSTRUCTION SIGNS (FURNISHED BY COUNTY)
METAL JUNCTION BOX
3"R.S.C. RISER AND WEATHERHEAD ABOVE JUNCTION BOX
3-12/c#12
2-3/c#12
1-2/c#14
EXTEND INTO H.H.3:
1 1/4"R.S.C. RISER BELOW JUNCTION BOX
1-2/c#14

(3) INSTALL 45' WOOD POLE-CLASS 2 (FURNISHED BY COUNTY)
2-DOWN GUYS, GUY GUARDS AND SCREW ANCHORS
TYPE 10A-WOOD POLE MOUNTED (6-2)
TYPE 10B-WOOD POLE MOUNTED (6-4,P8-3)
LUMINAIRE-200 WATT H.P.S. AND 15' MAST ARM
1-PEDESTRIAN PUSH BUTTON
INSTALL PEDESTRIAN INSTRUCTION SIGN (FURNISHED BY COUNTY)
R10-12 SIGN PANEL (24"x30")-ADJACENT TO (6-4).
METAL JUNCTION BOX
2"R.S.C. RISER AND WEATHERHEAD ABOVE JUNCTION BOX
2-12/c#12
1-3/c#12

(4) INSTALL 45' WOOD POLE-CLASS 2 (FURNISHED BY COUNTY)
2-DOWN GUYS, GUY GUARDS AND SCREW ANCHORS
TYPE 10B-WOOD POLE MOUNTED (6-1,P8-2)
TYPE 10A-WOOD POLE MOUNTED (6-1)
1-PEDESTRIAN PUSH BUTTON
INSTALL PEDESTRIAN INSTRUCTION SIGN (FURNISHED BY COUNTY)
METAL JUNCTION BOX
3"R.S.C. RISER AND WEATHERHEAD ABOVE JUNCTION BOX
3-12/c#12
1-3/c#12
3-2/c#14
EXTEND INTO H.H.8:
1 1/4"R.S.C. RISER BELOW JUNCTION BOX
3-2/c#14

(A) INSTALL CONTROLLER AND CABINET (FURNISHED BY COUNTY)
CABINET FOUNDATION
EXTEND INTO H.H.13:
METERED SIGNAL SERVICE
1 1/4"R.S.C.
3-1/c#6
EXTEND INTO H.H.1:
2"R.S.C.
4-2/c#14
EXTEND INTO H.H.7:
4"R.S.C.
5-12/c#12
2-3/c#12
3-2/c#14
4"R.S.C.
3-12/c#12
3-3/c#12
1-2/c#14

(B) SERVICE CABINET
CABINET FOUNDATION
STUB OUT 2"R.S.C.(FOR SERVICE BY A.E.C.)
EXTEND INTO H.H.13:
METERED SIGNAL SERVICE
1 1/4"R.S.C.
3-1/c#6
EXTEND INTO H.H.7:
UNMETERED STREET LIGHT SERVICE
1 1/4"R.S.C.
4-1/c#10

LOOP DETECTORS

NUMBER	SIZE (FT)	LOCATION	FUNCTION
D1-1	2-6x6	20'	7,8,11
D1-2	6x20	60'	3,12
D2-1	2-6x6	405'	1
D6-1	2-6x6	405'	1
D8-1	6x12	120'	3,8
D8-2	6x12	120'	3,8
D8-3	2-6x6	5'	7
D8-4	2-6x6	5'	1

NOTE: LOCATION = DISTANCE FROM STOP BAR TO LOOP DETECTOR.

FUNCTIONS:
1) CALL AND EXTEND
2) CALL ONLY
3) EXTEND ONLY
4) CALL ONLY DENSITY
5) DELAYED CALL ONLY
6) DELAYED CALL ONLY DENSITY
7) DELAYED CALL-IMMEDIATE EXTEND
8) CARRY OVER (STRETCH)
9) ADVISORY DETECTOR
10) SAMPLING DETECTOR
11) CALL DURING PHASE 6 CLEARANCE ONLY
12) EXTEND DURING PHASE 1 ONLY

SIGNAL INDICATIONS

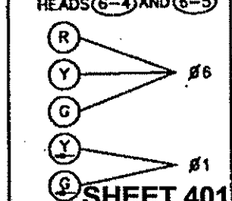
FACE	PHASE	FLASH	SIGNAL FACES (SIZE IN INCHES) R	Y	G	YLTA	GLTA
2-1	2	R	12	12	12		
2-2	2	R	12	12	12		
2-3	2	R	12	12	12		
2-4	2	R	12	12	12		
6-1	6	R	12	12	12		
6-2	6	R	12	12	12		
6-3	6	R	12	12	12		
6-4	6 & 1	R	12	12	12	12	12
6-5	6 & 1	R	12	12	12	12	12
8-1	8	R	12	12	12		
8-2	8	R	12	12	12		
8-3	8	R	12	12	12		
8-4	8	R	12	12	12		

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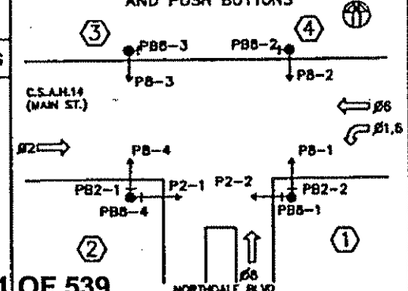
INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

SIGNAL HEAD PHASING

HEADS (6-4) AND (6-5)



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



S.P. 0212-40, ETC.

SHEET 401 OF 539

"ELECTRICAL ENGINEER CERTIFICATION"
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.
Robert A. Ellis
Date: 9/18/92 Reg. No. 5859

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.
Thomas A. Schwerdt
Date: 9/18/92 Reg. No. 20943

ENGINEERS & ARCHITECTS & PLANNERS

ANOKA COUNTY, MINNESOTA
CITY OF COON RAPIDS

TRAFFIC SIGNAL SYSTEM
INTERSECTION LAYOUT
CSAH 14 (MAIN STREET) AT NORTHDALE BOULEVARD

FILE NO. 92219
DATE 9/18/92

S.A.P. _____ S.P. _____ C.P. 92-07-14

Sheet No. 2 of 6 Sheets

NO.	BY	DATE	REVISIONS

PLOT DATE: Dec 23, 1999 3:41pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\3-Inp.dwg

Fed. Project No. _____

CONTROLLER CABINET

1: RED 2-2, YEL 2-2, GRN 2-2, NEU 2-2, P2-2, WLK P2-2, DWK P2-2, SPR, NEU 2-3, RED 2-3, YEL 2-3, GRN 2-3, EQG

8: 8-4 RED, 8-4 YEL, 8-4 GRN, 8-3, 8-4 NEU, 8-3 RED, 8-3 YEL, 8-3 GRN, P8-3 NEU, P8-3 WLK, P8-3 DWK, SPR, EQG

2: SPR, SPR, SPR, NEU, SPR, SPR, SPR, NEU P8-1, WLK P8-1, DWK P8-1, SPR, EQG

9: PB2-2, NEU, PB8-1

10: PB2-1, NEU, PB8-4

11: SPR, NEU, PB8-3

12: SPR, NEU, PB8-2

13: P2-1 WLK, P2-1 NEU, P2-1 DWK

3: RED 6-5, YEL 6-5, GRN 6-5, NEU 6-5, YLTA 6-5, GLTA 6-5, SPR, NEU 2-1, RED 2-1, YEL 2-1, GRN 2-1, EQG

14: D1-1

15: D1-2

16: D2-1

17: D6-1

18: D8-1

19: D8-2

20: D8-3

21: D8-4

4: RED 6-4, YEL 6-4, GRN 6-4, NEU 6-4, YLTA 6-4, GLTA 6-4, SPR, NEU P8-4, WLK P8-4, DWK P8-4, SPR, EQG

5: RED 6-2, YEL 6-2, GRN 6-2, NEU 6-2, 6-3, RED 6-3, YEL 6-3, GRN 6-3, NEU, SPR, SPR, SPR, EQG

24: SIGNAL SERVICE

6: RED 2-4, YEL 2-4, GRN 2-4, NEU 2-4, SPR, SPR, SPR, NEU 6-1, RED 6-1, YEL 6-1, GRN 6-1, EQG

7: RED 8-1, YEL 8-1, GRN 8-1, NEU 8-1, P8-2, WLK P8-2, DWK P8-2, SPR, NEU 8-2, RED 8-2, YEL 8-2, GRN 8-2, EQG

1,2,6,7,8,9,12,14,15,17

3,4,5,10,11,13,16

22,23

H.H.7

1,2,9

3,4,5,10,11,13,16,23

6,7,8,12,14,15,17,22

W.P.1

3,4,5,10,11,13,16,23

1A,6,7,8,12,14,15,17

W.P.2

4A,5,11,23

5,11,23

5A,11,23

LUMINAIRE ⚠1 — 22

2-2 P2-2 — 1A — 1 — PB2-2 PB8-1 — 9 — 1A

P8-1 — 2

6-5 2-1 — P2-1 — 3 — 13

4 — P8-4 — 4A — 10 — PB2-1 PB8-4 — 4A

6-4 — 4A

6-3 — 5 — 5A

H.H.3 — 16

H.H.4 — 16

H.H.5 — 16

H.H.6 — 16 — D2-1

SERVICE CABINET

22 LUMINAIRE ⚠1

23 LUMINAIRE ⚠2

22,23

H.H.13

24 — 24 — 24 SIGNAL SERVICE

SIGNALS NEUTRAL LIGHTING — 25 — 25

S.O.P. — 25

18,19,20,21

H.H.1 — 20 — 21 — D8-3 D8-4

18,19

H.H.2 — 18 — 19 — D8-1 D8-2

2-3 — 1A

2-4 — 6 — 8A

6-1 — 6A

4 — P8-2 — 8-1 — 7 — 7A — PB8-2 — 12 — 7A

6,7,8,12,14,15,17

6A,7,8,12,14,15,17

1A,6,7,8 12,14,15,17

W.P.4

14,15,17

7A,8

14,15,17

H.H.8 — 14 — D1-1

H.H.10 — 17

H.H.11 — 17

H.H.12 — 17 — D6-1

H.H.9 — 15 — D1-2

7A,8

8-2 — 7A — 8

8-3 — 8 — 8A

8A

LUMINAIRE ⚠2 — 23

3 — P8-3 — 8-4 — 11 — PB8-3

6-2 — 5A

5A,11,23

W.P.3

CONDUCTOR COLOR CODING

12/c#12: R, O, BL, WH, R/BLK, O/BLK, BL/BLK, WH/BLK, BLK, BLK/WH, O/BLK, G

BLK, WH — 2-1/c#2, 2-1/c#6, 2-1/c#10

R, WH, BLK — 3/c#12

BLK CLEAR — 2/c#14

R OR O, WH OR YEL, BLK OR BL — 3/c#20

NOTE:
ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

S.P. 0212-40, ETC. SHEET 402 OF 539

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1920714

NO.	BY	DATE	REVISIONS

"ELECTRICAL ENGINEER CERTIFICATION"
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.
Robert A. Elder
Date: 9/18/92 Reg. No. 5859

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.
Thomas A. Johnson
Date: 9/18/92 Reg. No. 20943

SEH ENGINEERS ARCHITECTS PLANNERS

ANOKA COUNTY, MINNESOTA
CITY OF COON RAPIDS

TRAFFIC SIGNAL SYSTEM
FIELD WIRING DIAGRAM
CSAH 14 (MAIN STREET) AT NORTHDALE BOULEVARD

FILE NO. 92219
DATE 9/18/92

S.A.P. _____ S.P. _____ C.P. 92-07-14

Sheet No. 3 of 6 Sheets

Fed. Proj. No.

SIGNAL INDICATION CHART							
FACE	PHASE	FLASH	TYPE AND SIZE (IN INCHES)				
			R	Y	G	Y	G
1-1	1	R	12	12	12		
1-2	1	R	12	12	12		
6-1	6	R	12	12	12		
6-2	6	R	12	12	12	←12	←12
6-3	6	R	12	12	12	←12	←12
3-1	3	R	12	12	12		
3-2	3	R	12	12	12		←12
3-3	3	R	12	12	12		←12
4-1	4	R	12	12	←12		
4-2	4	R	12	12	←12		

SIGNAL HEAD PHASING

HEADS: R, Y, G, 6-2, 6-3 — PHASE: 6, Ø 2*

* SEE SPECIAL PROVISIONS

N

SCALE IN FEET 0 10 20 30 40 50 100

SCALE IN METERS 0 5 10 20 30

ORIGINAL PLAN SIZE: 1 CM

RAMP "C"

2-6'X6' LOOP DETECTORS

3-6'X6' LOOP DETECTORS

3" R.S.C. 2-12/C#12, 2-3/C#12, 2-2/C#14, 2-1/C#10

1 1/4" R.S.C. 1-2/C#14

ONE WAY SIGNAL (TYPE 1B)
1-SET PEDESTRIAN INDICATIONS
1 PEDESTRIAN PUSH BUTTON
3 STEEL GUARD POSTS
EXTEND 3" R.S.C. 1-12/C#12, 1-3/C#12 INTO H.H.12

3" R.S.C. 3-12/C#12, 3-3/C#12, 2-2/C#14, 2-1/C#10

4" RSC 3-12/C#12, 3-3/C#12, 3-2/C#14, 2-1/C#10

4" RSC 4-12/C#12, 3-3/C#12, 3-2/C#14, 4-1/C#10

TYPE A30-D40-9, SWING-AWAY HINGES
ONE WAY SIGNAL (OVERHEAD)
TWO WAY SIGNAL (TYPE 20D POLE MOUNTED 270°)
2-SETS PEDESTRIAN INDICATIONS
2 PEDESTRIAN PUSH BUTTONS
LUMINAIRE (350°)
3 STEEL GUARD POSTS
EXTEND 3" R.S.C. 2-12/C#12, 2-3/C#12, 2-1/C#10 INTO H.H.13

F&I 6'X6' LOOP DETECTOR 1-2/C#14. 11-4-81

T.H.242

D1-1 — 270' — D2-1 — MULTIPLE LOOP DETECTOR — D6-1 — 110 — JB3

6'X6' LOOP DETECTOR

1 1/4" RSC 3-2/C#14

105

160'

JB1 — JB2

3" RSC 2-25PR#19, 2-4/C#22

3" RSC 2-25PR#9

SYSTEM "A" — SEE SHEET 9

MATCH LINE 110+98.6

CONTROLLER PHASING PEDESTRIAN INDICATION AND PUSH BUTTON LAYOUT SYSTEM "B"

PB3-2 P6-1 — PB6-1 P3-2 — PB6-2 P6-2 — PB1-2 P3-1 — PB3-1 P1-2 — PB1-1 P1-1

25' WOOD POLE, CLASS 4
SERVICE EQUIPMENT
EXTEND 1 1/4" RSC 4-1/C#10, INTO HH6
EXTEND 1 1/4" RSC 2-1/C# 6, 1-1/C#6 BR. GR. INTO H.H. 6

TYPE A25
ONE WAY SIGNAL (OVERHEAD)
TWO WAY SIGNAL (TYPE 20D POLE MOUNTED 270°)
2-SET PEDESTRIAN INDICATIONS
2-PEDESTRIAN PUSH BUTTON
3-STEEL GUARD POSTS
EXTEND 3" RSC 2-12/C#12, 1-3/C#12, INTO HH6

3" RSC 2-12/C#12, 1-3/C#12, 3-2/C#14, 4-1/C#10, 2-1/C#6, 1-1/C#6 BR.GR.

10' PEDESTAL POLE
ONE WAY SIGNAL (TYPE 1A)
EXTEND 3" RSC 1-12/C#12 INTO H.H. 4

3" RSC 3-12/C#12, 1-3/C#12, 4-2/C#14, 4-1/C#10, 2-1/C#6, 1-1/C#6 BR.GR.

6'X6' LOOP DETECTOR

C.S.A.H. 18

CONTROLLER AND CABINET
EXTEND 4" RSC 4-12/C#12, 3-3/C#12, 3-2/C#14, 2-25PR#19, 2-4/C#22 INTO HH1
EXTEND 4" RSC 3-12/C#12, 1-3/C#12 3-2/C#14, 2-1/C#6, 1-1/C#6 BR.GR. INTO HH2

3" RSC 4-1/C#10

6'X 6' LOOP DETECTORS

1 1/4" RSC 1-2/C#14

A30-D40-9, SWING-AWAY HINGES
ONE WAY SIGNAL (OVERHEAD)
ONE WAY SIGNAL (TYPE 10B POLE MOUNTED 270°)
1-SET PEDESTRIAN INDICATIONS
1-PEDESTRIAN PUSH BUTTON LUMINAIRE (350°)
EXTEND 3" RSC 1-12/C#12, 2-3/C#12 2-1/C#10 INTO HH 10

FOR CONDUIT ON BRIDGE SEE DETAIL SHEET NO. 13

SYSTEM "B"

WEST RAMP T.H. 242 AND T.H.10

INTERSECTION LAYOUT

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

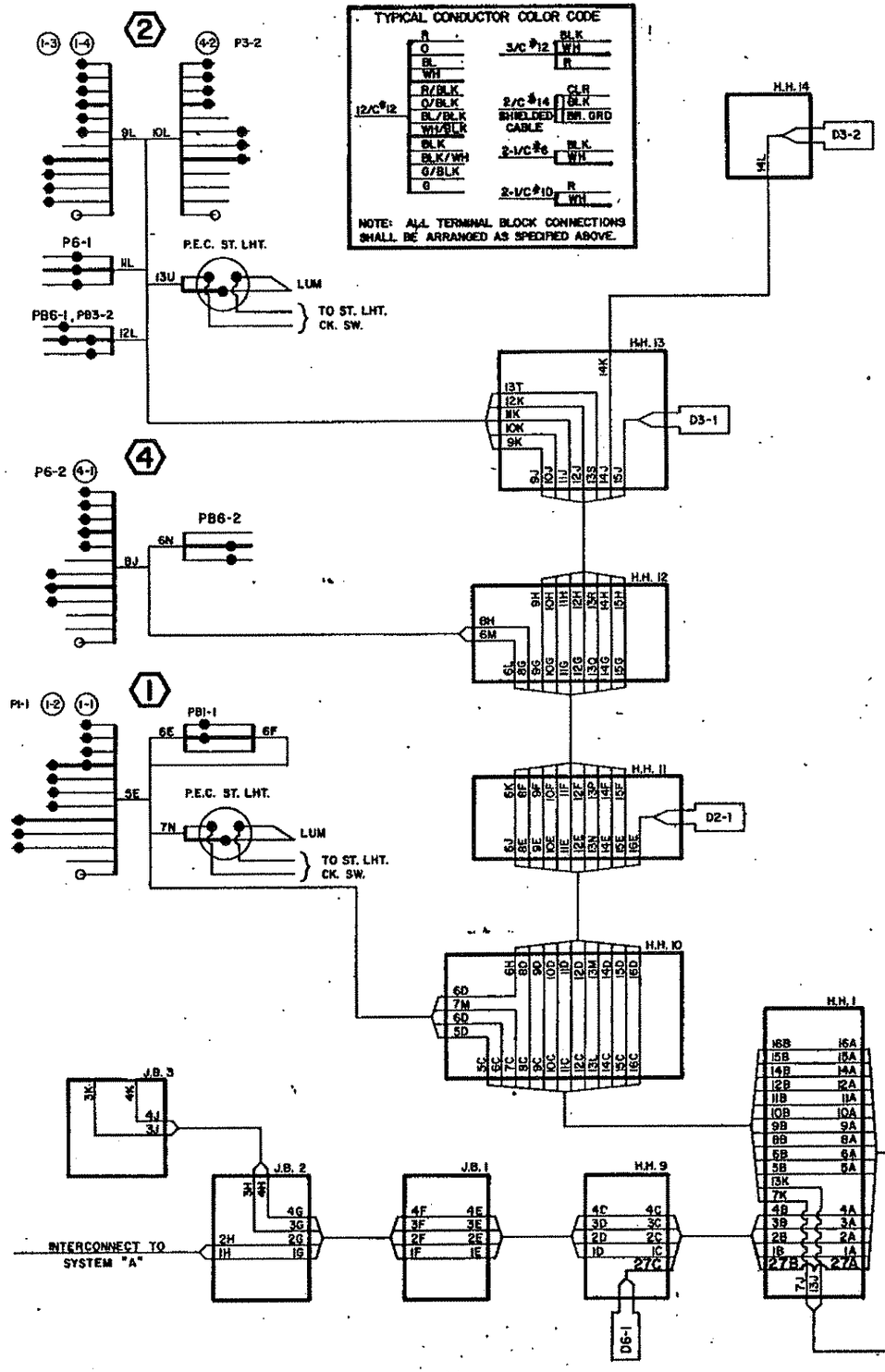
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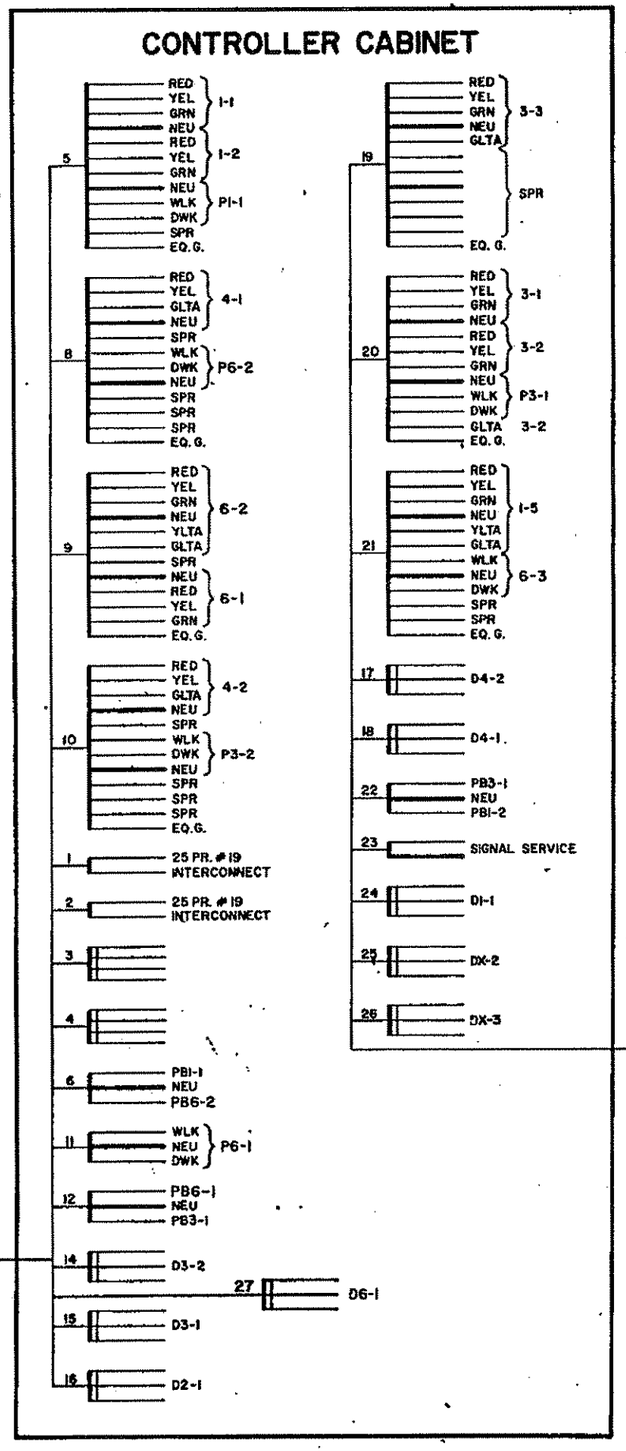
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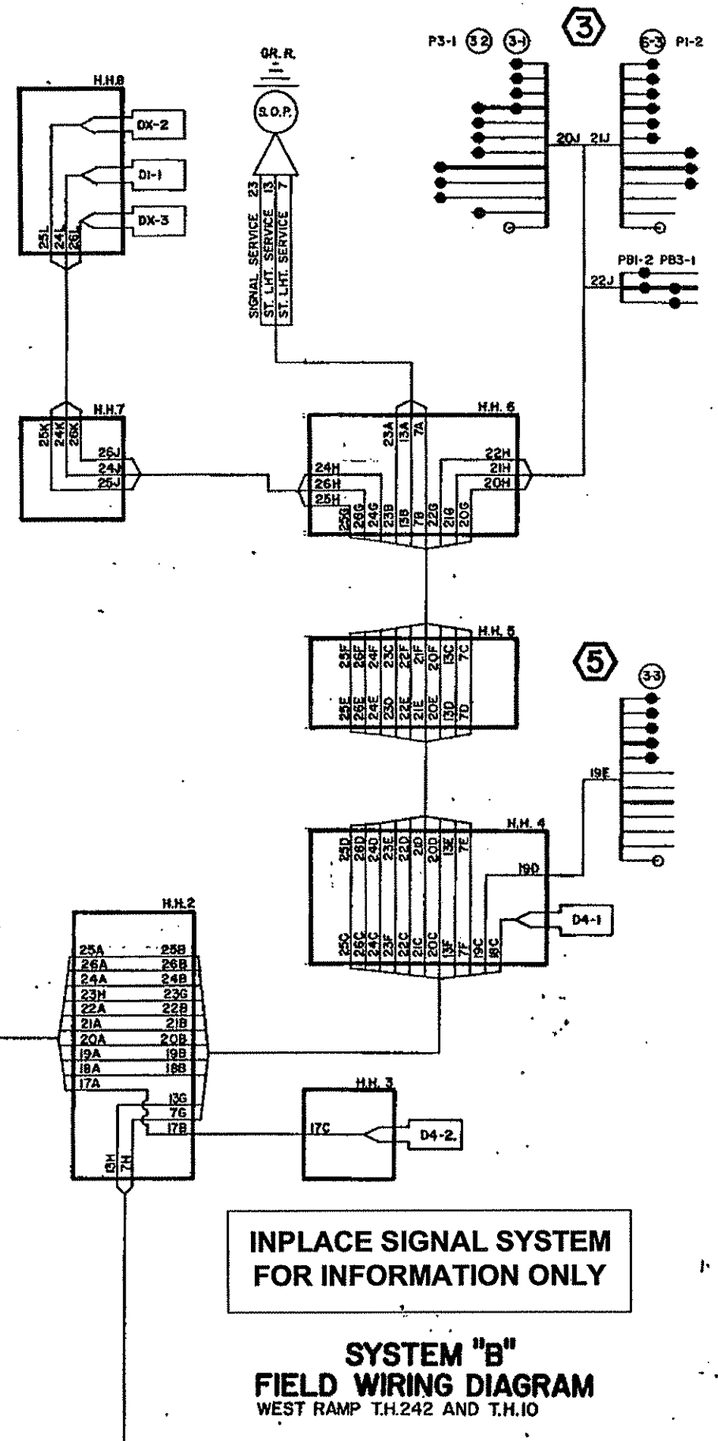
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Fed. Proj. No.



CONTROLLER CABINET





SYSTEM "B"
FIELD WIRING DIAGRAM
WEST RAMP T.H.242 AND T.H.10

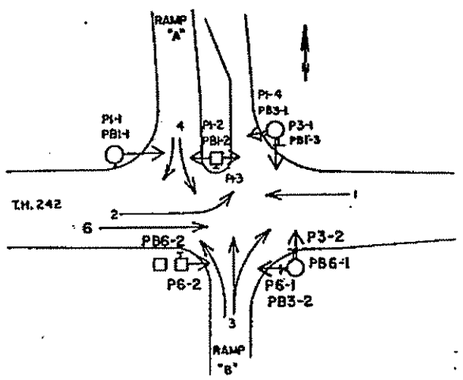
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Fed. Proj. No.

CONTROLLER PHASING PEDESTRIAN INDICATION AND PUSH BUTTON LAYOUT SYSTEM "A"



2-6'X6' LOOP DETECTOR

1¼" R.S.C.
1-12/C#14

MULTIPLE LOOP DETECTORS

TYPE A30-D40-9
SWING-AWAY HINGES
ONE WAY SIGNAL (OVERHEAD)
ONE WAY SIGNAL (TYPE 10B POLE MOUNTED 270°)
1-SET PEDESTRIAN INDICATIONS
1 PEDESTRIAN PUSH BUTTON
LUMINAIRE (350°)
EXTEND 3" R.S.C. 1-12/C#12, 1-3/C#12, 2-1/C#10 INTO H.H. 11
3 STEEL GUARD POSTS

C.S.A.H. 10

3" R.S.C.
1-12/C#12
1-3/C#12
2-2/C#14
2-1/C#10

MULTIPLE LOOP DETECTOR

ONE WAY SIGNAL (TYPE 1D)
2-SETS PEDESTRIAN INDICATIONS
1 PEDESTRIAN PUSH BUTTON
EXTEND 3" R.S.C. 2-3/C#12, 1-12/C#12 INTO H.H. 10

3" R.S.C.
2-12/C#12
1-3/C#12
3-2/C#14
2-1/C#10

TYPE A20
ONE WAY SIGNAL (OVERHEAD)
TWO WAY SIGNAL (TYPE 20D POLE MOUNTED 270°)
2-SETS PEDESTRIAN INDICATIONS
2 PEDESTRIAN PUSH BUTTONS
EXTEND 3" R.S.C. 2-12/C#12, 2-3/C#12 INTO H.H. 9 (3 STEEL GUARD POST)

3" R.S.C.
4-12/C#12
1-3/C#12
3-2/C#14
2-1/C#10

1¼" R.S.C.
1-2/C#14

SIGNAL HEAD PHASING

HEADS	PHASE
R, Y, G	6
6-2, 6-3, Y, G	Ø2

* SEE SPECIAL PROVISIONS

SCALE IN FEET
0 10 20 30 40 50 100
SCALE IN METERS
0 5 10 20 30
ORIGINAL PLAN SIZE: 1CM

T.H. 242
3" R.S.C.
2-25 PR. #19

SYSTEM "B" - SEE SHEET NO.13

JUNCTION BOX 6 (SEE SPECIAL PROVISIONS)

6'X6' LOOP DETECTOR

FOR CONDUIT ON BRIDGE SEE DETAIL SHEET NO. 13

MATCH LINE 110+98.5

MULTIPLE LOOP DETECTOR

3" R.S.C.
1-12/C#14
2-25 PR. #19

ONE WAY SIGNAL (TYPE 1A)
EXTEND 3" R.S.C. 1-12/C#12, INTO H.H. 4 (3 STEEL GUARD POSTS)

ONE WAY SIGNAL (TYPE 1B)
1-SET PEDESTRIAN INDICATIONS
1 PEDESTRIAN PUSH BUTTON
EXTEND 3" R.S.C. 1-12/C#12, 1-3/C#12 INTO H.H. 4 (3 STEEL GUARD POSTS)

3" R.S.C.
2-12/C#12
1-3/C#12
2-2/C#14
2-25 PR. #19

T.H. 242

1¼" R.S.C.
1-2/C#14

3" R.S.C.
4-12/C#12
1-3/C#12
4-2/C#14
2-1/C#10

DX-1

1-6'X6' LOOP DETECTOR

1-5'X6' LOOP DETECTOR

SERVICE EQUIPMENT PAD (SEE DETAILS, SHEET NO. 13A)

1¼" R.S.C.
2-2/C#14

2-6'X6' LOOP DETECTORS

1¼" R.S.C.
1-2/C#14

T.H. 10 OFF RAMP

2-6'X6' LOOP DETECTORS

TYPE A25-D40-9, SWING-AWAY HINGES
ONE WAY SIGNAL (OVERHEAD)
ONE WAY SIGNAL (TYPE 10C POLE MOUNTED 270°)
2-SETS PEDESTRIAN INDICATIONS
2 PEDESTRIAN PUSH BUTTONS
EXTEND 3" R.S.C. 1-12/C#12, 4-3/C#12 INTO H.H. 1
EXTEND 3" R.S.C. 2-1/C#10 INTO H.H. 7
LUMINAIRE (350°)
3 STEEL GUARD POSTS

RAMP "B"

SIGNAL INDICATION CHART

FACE	PHASE	FLASH	TYPE AND SIZE (IN INCHES) R	Y	G	Y	G
1-1	1	R	12	12	12		
1-2	1	R	12	12	12		
6-1	6	R	12	12	12		
6-2	6	R	12	12	12	← 12	← 12
6-3	6	R	12	12	12	← 12	← 12
3-1	3	R	12	12	12		
3-2	3	R	12	12	12		← 12
3-3	3	R	12	12	12		← 12
4-1	4	R	12	12	12	12 →	12 →
4-2	4	R	12	12	12		← 12

I HEREBY CERTIFY THAT SHEETS 3 THROUGH 81 OF THIS PLAN WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Dennis R. Gyba

DATE 11/5/76 REG. NO., 10712

DESIGN SQUAD D. EDSTROM

SYSTEM "A"

EAST RAMP T.H.242 AND T.H.10 INTERSECTION LAYOUT

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

THIS SHEET IN ENGLISH UNITS

S.P. 0212-40, ETC. SHEET 405 OF 539

State Proj. No. 0215-27 (T.H.10=62) Sheet No. 9 of 46 Sheets

PLOT DATE: Dec 23, 1976 3:53pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\6-lnp.dwg

(1) 45' WOOD POLE–CL. 2
DOWNGUY, GUARD AND ANCHOR
LUMINAIRE–200W H.P.S. (WITH PEC & CHECK SWITCH), AND 15' LUMINAIRE MAST ARM
TYPE 10A POLE MOUNTED

METAL JUNCTION BOX #1
3" RSC BELOW J.B. #1 TO HH 1
2–12/C #12
1–3/C #12 (LUM)

3" RSC RISER AND WEATHERHEAD ABOVE J.B. #1
2–12/C #12
1–3/C #12 (LUM)
1" RSC RISER AND WEATHERHEAD ABOVE SPAN WIRE WITH 1 – 3/C #12 (LUM.)

(2) 45' WOOD POLE–CL. 2
2–DOWNGUY, GUARD AND ANCHOR
2–TYPE 10A POLE MOUNTED

METAL JUNCTION BOX #2
2" RSC RISER AND WEATHERHEAD ABOVE J.B. #2
1–12/C #12

(3) 45' WOOD POLE–CL. 2
2–DOWNGUY, GUARD AND ANCHOR
LUMINAIRE–200W H.P.S. (WITH PEC & CHECK SWITCH), AND 15' LUMINAIRE MAST ARM
TYPE 10A POLE MOUNTED

METAL JUNCTION BOX #3
2" RSC RISER AND WEATHERHEAD ABOVE J.B. #3
1–12/C #12
2–2/C #12UF
1–3/C #12

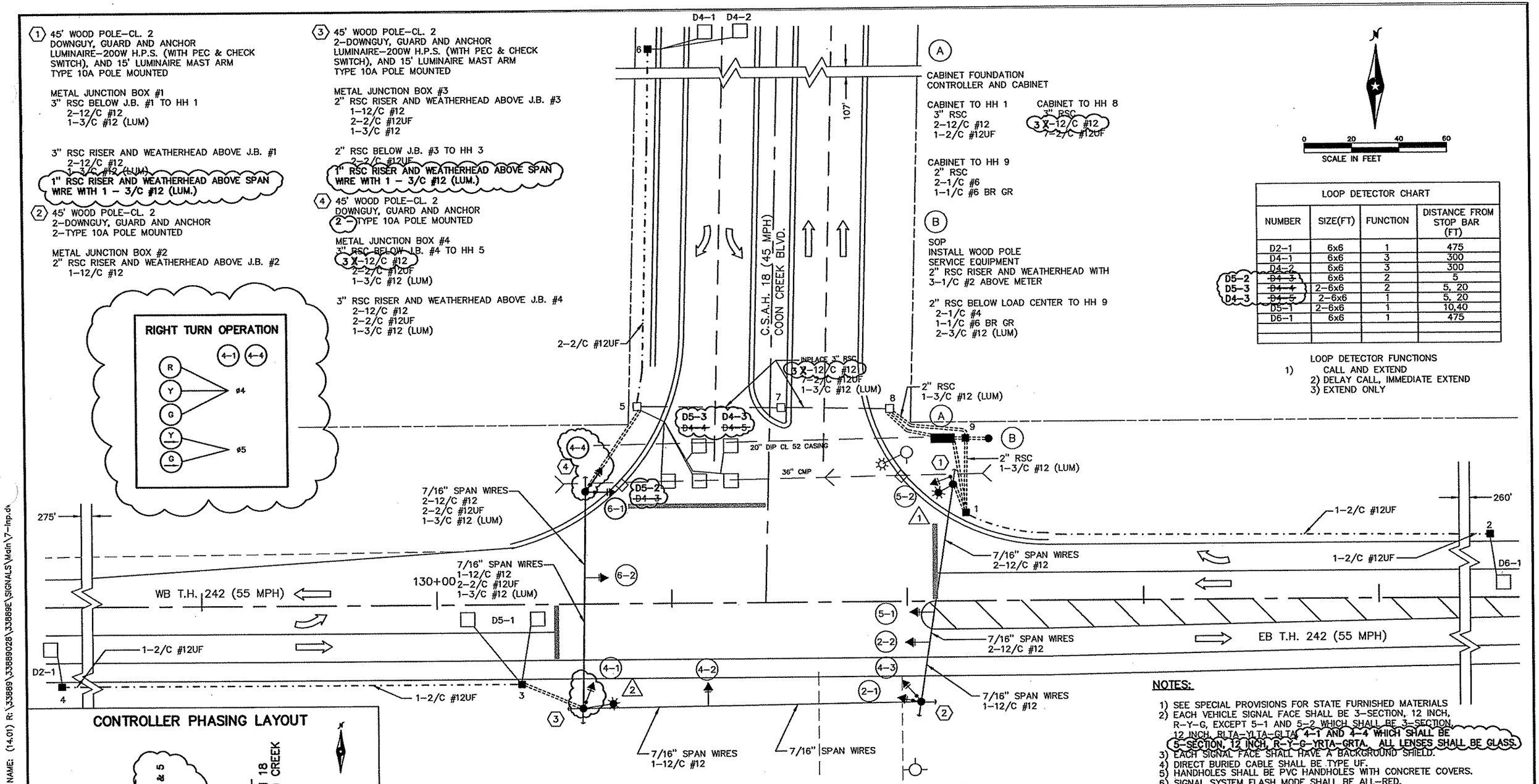
2" RSC BELOW J.B. #3 TO HH 3
2–2/C #12UF
1" RSC RISER AND WEATHERHEAD ABOVE SPAN WIRE WITH 1 – 3/C #12 (LUM.)

(4) 45' WOOD POLE–CL. 2
DOWNGUY, GUARD AND ANCHOR
2 – TYPE 10A POLE MOUNTED

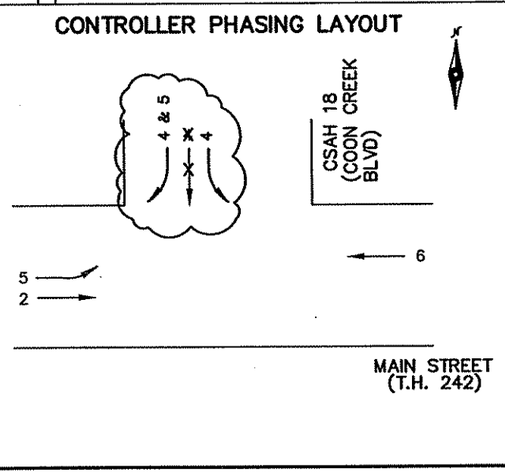
METAL JUNCTION BOX #4
3" RSC BELOW J.B. #4 TO HH 5
3 X–12/C #12
2–2/C #12UF
1–3/C #12 (LUM)

3" RSC RISER AND WEATHERHEAD ABOVE J.B. #4
2–12/C #12
2–2/C #12UF
1–3/C #12 (LUM)

RIGHT TURN OPERATION



CONTROLLER PHASING LAYOUT



LOOP DETECTOR CHART			
NUMBER	SIZE(FT)	FUNCTION	DISTANCE FROM STOP BAR (FT)
D2–1	6x6	1	475
D4–1	6x6	3	300
D4–2	6x6	3	300
D5–2 D4–3	6x6	2	5
D5–3 D4–4	2–6x6	2	5, 20
D4–3 D4–5	2–6x6	1	5, 20
D5–1	2–6x6	1	10,40
D6–1	6x6	1	475

1) LOOP DETECTOR FUNCTIONS
CALL AND EXTEND
2) DELAY CALL, IMMEDIATE EXTEND
3) EXTEND ONLY

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

THIS SHEET IN ENGLISH UNITS

LEGEND:

REVISIONS 12–1–92

NOTES:

1) SEE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS
2) EACH VEHICLE SIGNAL FACE SHALL BE 3–SECTION, 12 INCH, R–Y–G, EXCEPT 5–1 AND 5–2 WHICH SHALL BE 3–SECTION, 12 INCH, RLTA–YLTA–GLTA. 4–1 AND 4–4 WHICH SHALL BE 5–SECTION, 12 INCH, R–Y–G–YRTA–GRTA. ALL LENSES SHALL BE GLASS.
3) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
4) DIRECT BURIED CABLE SHALL BE TYPE UF.
5) HANDHOLES SHALL BE PVC HANDHOLES WITH CONCRETE COVERS.
6) SIGNAL SYSTEM FLASH MODE SHALL BE ALL–RED.
7) TRAFFIC SIGNAL CONTROLLER, WOOD POLES, AND HAND HOLE LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
8) THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES.
9) HANDHOLES 5, 7, AND 8 ARE INPLACE. USE INPLACE.
10) MNDOT SHALL PROVIDE 5–SECTION HEADS 4–1 AND 4–4 FOR RIGHT TURN OPERATION.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date _____ Minn. Reg. No. _____

BRW PLANNING TRANSPORTATION ENGINEERING URBAN DESIGN
BRW INC. 700 THIRD STREET SOUTH, MINNEAPOLIS, MN 55415

DESIGN BY: RJG
DRAWN BY: SAC
CH'KED BY: HP
SURVEY BOOK

ORIGINAL DATE 5/18/92
REVISIONS
12–1–92
12–8–92

CITY OF COON RAPIDS
IMPROVEMENT PROJECT 90–18
COON CREEK BLVD AND T.H. 242 (MAIN STREET)
SIGNAL INTERSECTION LAYOUT

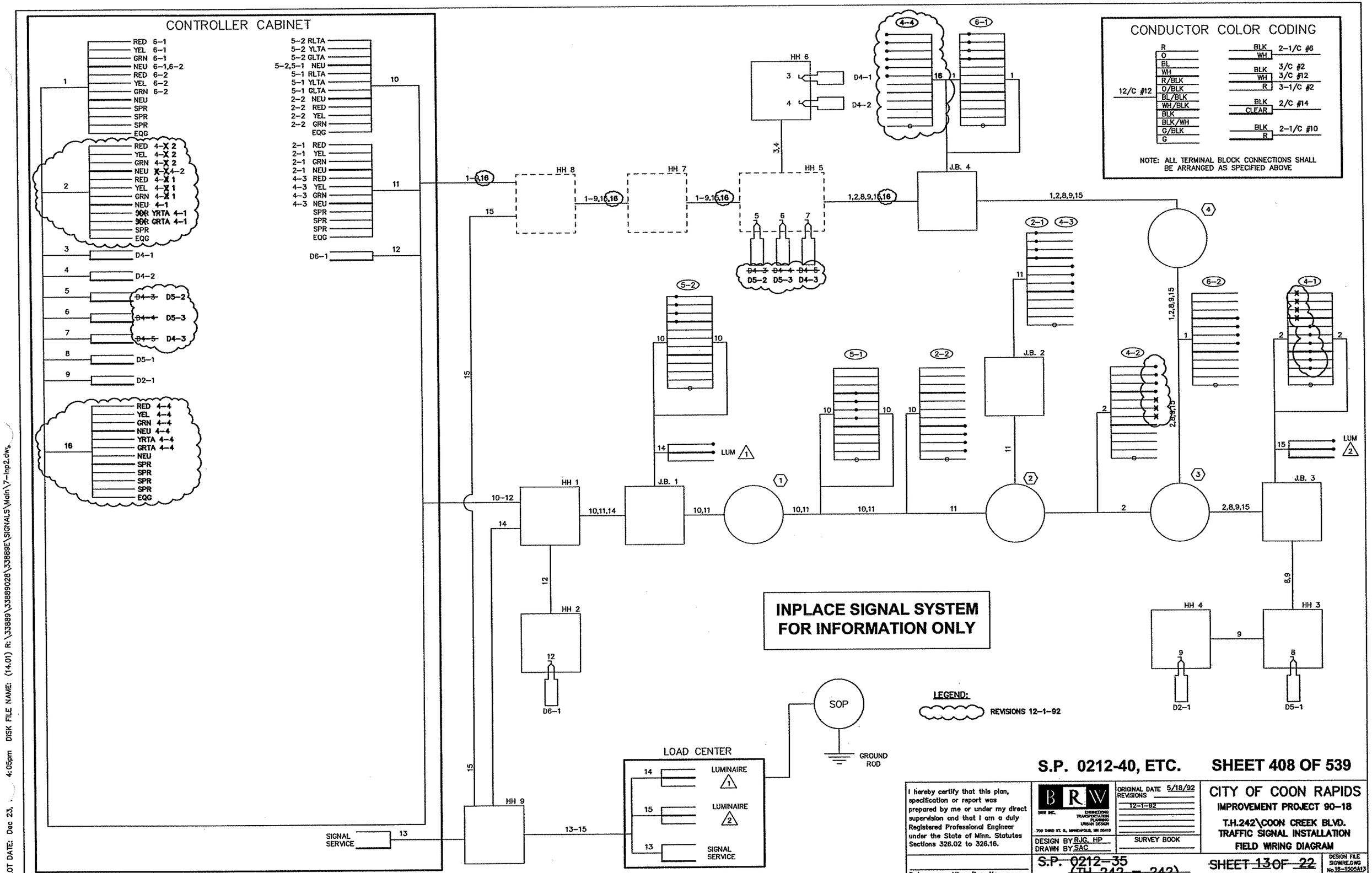
S.P. ~~0212–35~~ (~~TH 242 = 242~~)

~~SHEET 12 OF 22~~

DESIGN FILE SIGPLAN No. 1505A13

S.P. 0212-40, ETC. SHEET 407 OF 539

PLOT DATE: Dec 2. / 3:56pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\7-Inp.dgn



PLOT DATE: Dec 23, 4:05pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\7-Inp2.dgn

S.P. 0212-40, ETC. **SHEET 408 OF 539**

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date_____ Minn. Reg. No._____

BRW INC. ENGINEERING TRANSPORTATION PLANNING URBAN DESIGN 700 THIRD ST. S. MINNEAPOLIS, MN 55415

ORIGINAL DATE 5/18/92
REVISIONS 12-1-92

DESIGN BY RJG, HP
DRAWN BY SAC

SURVEY BOOK

CITY OF COON RAPIDS
IMPROVEMENT PROJECT 90-18
T.H.242\COON CREEK BLVD.
TRAFFIC SIGNAL INSTALLATION
FIELD WIRING DIAGRAM

S.P. 0212-35 (TH 242 = 242)

~~SHEET 13 OF 22~~

DESIGN FILE SIGWIRE.DWG No.18-1505A13

APBOX
NTBASE
42PLNW
42MHETO
42-ALIW

EXISTING INTERCONNECT TO
ROUND LAKE BLVD / RIVERDALE
SW ACCESS

Round Lake Blvd.

INPLACE: 53 mm RSC
1-6PR #19

INPLACE: 103 mm RSC
1-6PR #19

INPLACE: MASTER CONTROLLER
INTERSECTION CONTROLLER &
CABINET

FIBER OPTIC VAULT

F & I: 53 mm RSC
*1-6/C FO CABLE

**Main St. / Round Lake Blvd.
Signal System "A"**

Main St. (CSAH 14)

F & I: *53 mm RSC
*1-6/C FO CABLE

F & I: *53 mm RSC
*1-6/C FO CABLE

F & I: * 78 mm RSC
*1-6/C FO CABLE

F & I: 78 mm RSC
*1-6/C FO CABLE

River Rapids Drive

**Main St. / River Rapids Drive
Signal System "B"**

2+007.965 2+100 2+200 2+300

EXISTING INTERCONNECT TO
MAIN ST. / WEDGEWOOD

INPLACE: 53 mm RSC
1-6PR #19

INPLACE: 78 mm RSC
1-6PR #19

INPLACE: 53 mm RSC
1-6PR #19

F & I: 78 mm RSC
*1-6/C FO CABLE

F & I: 103 mm RSC
*1-6/C FO CABLE

F & I: 53 mm RSC
*1-6/C FO CABLE

FIBER-OPTIC
SPLICE VAULT

F & I: 53 mm RSC
*1-6/C FO CABLE

River Rapids Drive

Match Line I1

0 10 20
SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:

1. * DENOTES ITEMS INCLUDED WITH INTERCONNECT.
2. OTHER ITEMS ARE INCLUDED AS PART OF SIGNAL SYSTEMS "A", "B", "C", "D", "E", "F", "G" OR "H". SEE SIGNAL LAYOUT SHEETS.
3. MASTER CONTROLLER UNIT IS IN PLACE AND LOCATED AT THE MAIN ST. / ROUND LAKE BLVD. INTERSECTION.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/7/2000	LOCATION AND NUMBERING OF HANDHOLES UPDATED
2	JRN	1/7/2000	CONDUIT CALLOUTS UPDATED
3	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 1-INTER
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Robert J. Green

DATE: 11/5/99 MINN. REG. NO. 22793

**MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM**
MAIN ST. (CSAH 14) / TH 242
INTERCONNECT PLAN

CITY PROJECT 98-20

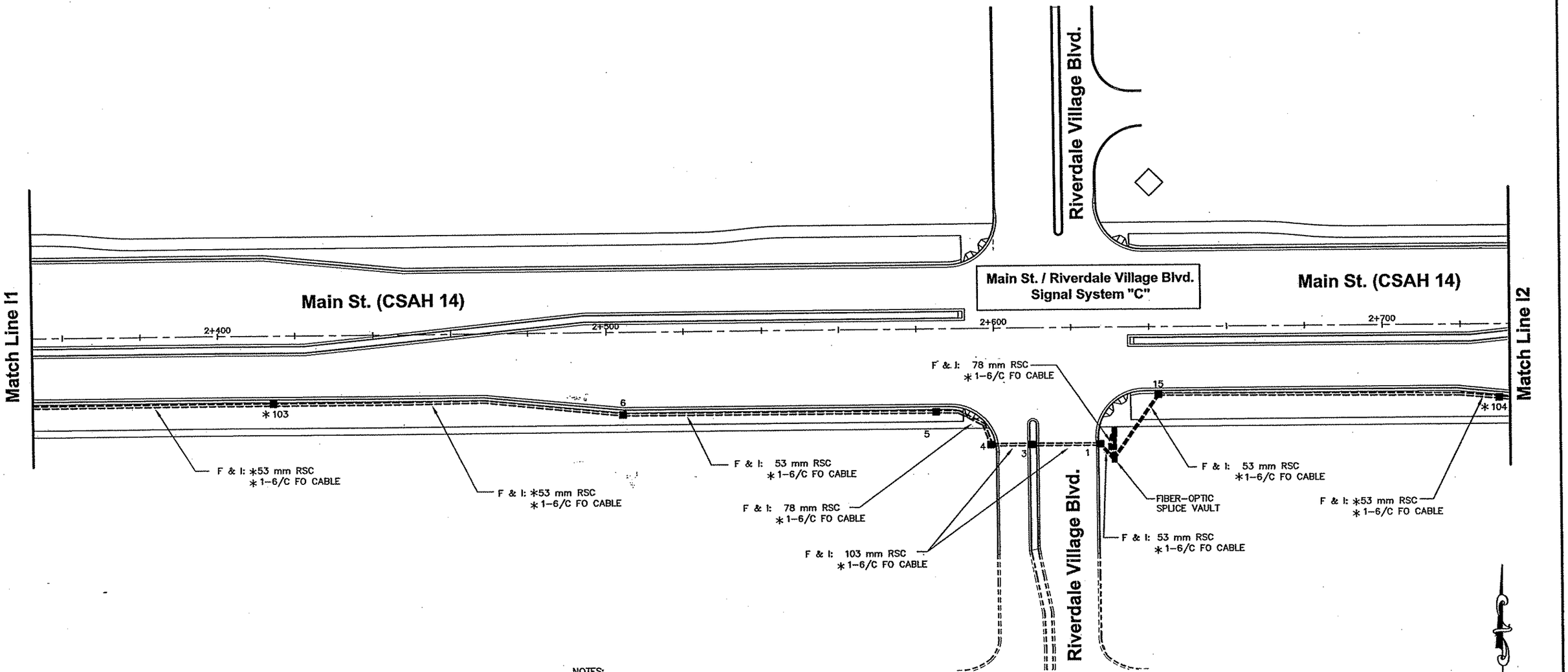
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 409 / 539

PLOT DATE: Jul 13, 2004 9:20am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\I-inter.dwg

F DRAWINGS

PBOX
TBASE
2PLNW
2MHETO
2-ALIW



NOTES:

1. * DENOTES ITEMS INCLUDED WITH INTERCONNECT.
2. OTHER ITEMS ARE INCLUDED AS PART OF SIGNAL SYSTEMS "A", "B", "C", "D", "E", "F", "G" OR "H". SEE SIGNAL LAYOUT SHEETS.
3. MASTER CONTROLLER UNIT IS IN PLACE AND LOCATED AT THE MAIN ST. / ROUND LAKE BLVD. INTERSECTION.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/7/2000	LOCATION & NUMBERING OF HANDHOLES UPDATED
2	JRN	1/7/2000	CONDUIT CALLOUTS UPDATED
3	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 2-INTER
DATE: NOVEMBER 5, 1999

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Grem

DATE: 11/5/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
MAIN ST. (CSAH 14) / TH 242
INTERCONNECT PLAN

CITY PROJECT 98-20

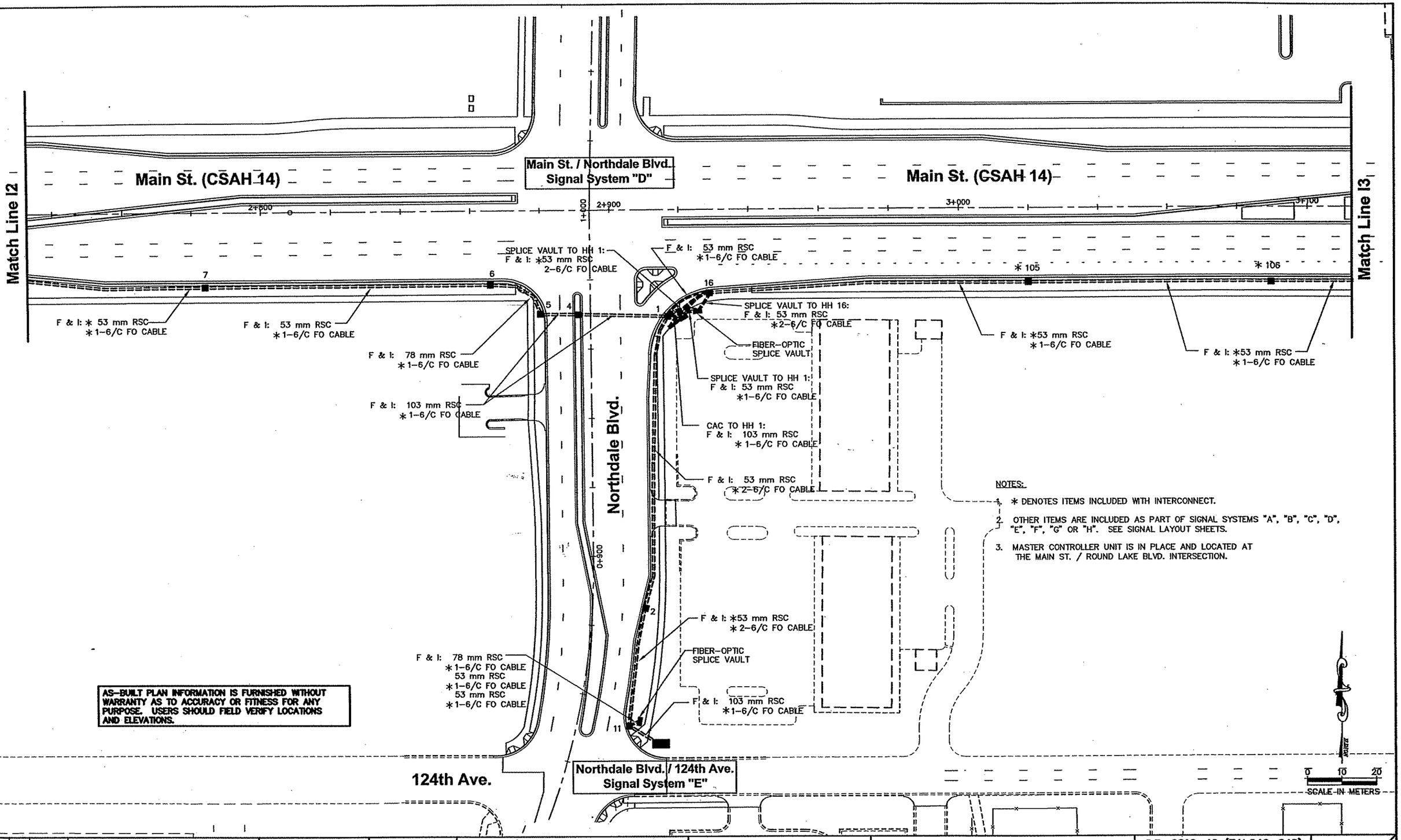
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 410 / 539

PLOT DATE: Jul 07, 2004 1:39pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\2-inter.dwg

F DRAWINGS

NTBASE
42PLNW
42-ALIW



NOTES:

1. * DENOTES ITEMS INCLUDED WITH INTERCONNECT.
2. OTHER ITEMS ARE INCLUDED AS PART OF SIGNAL SYSTEMS "A", "B", "C", "D", "E", "F", "G" OR "H". SEE SIGNAL LAYOUT SHEETS.
3. MASTER CONTROLLER UNIT IS IN PLACE AND LOCATED AT THE MAIN ST. / ROUND LAKE BLVD. INTERSECTION.

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/7/2000	LOCATION & NUMBERING OF HANDHOLES UPDATED
2	JRN	1/7/2000	CONDUIT CALLOUTS UPDATED
3	JJL	7/5/00	MOD. REQ. #56: REVISED MENARDS ENTRANCE
4	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 3-INTER
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Green

DATE: 11/5/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION TRAFFIC SIGNAL SYSTEM

MAIN ST. (CSAH 14) / TH 242
INTERCONNECT PLAN

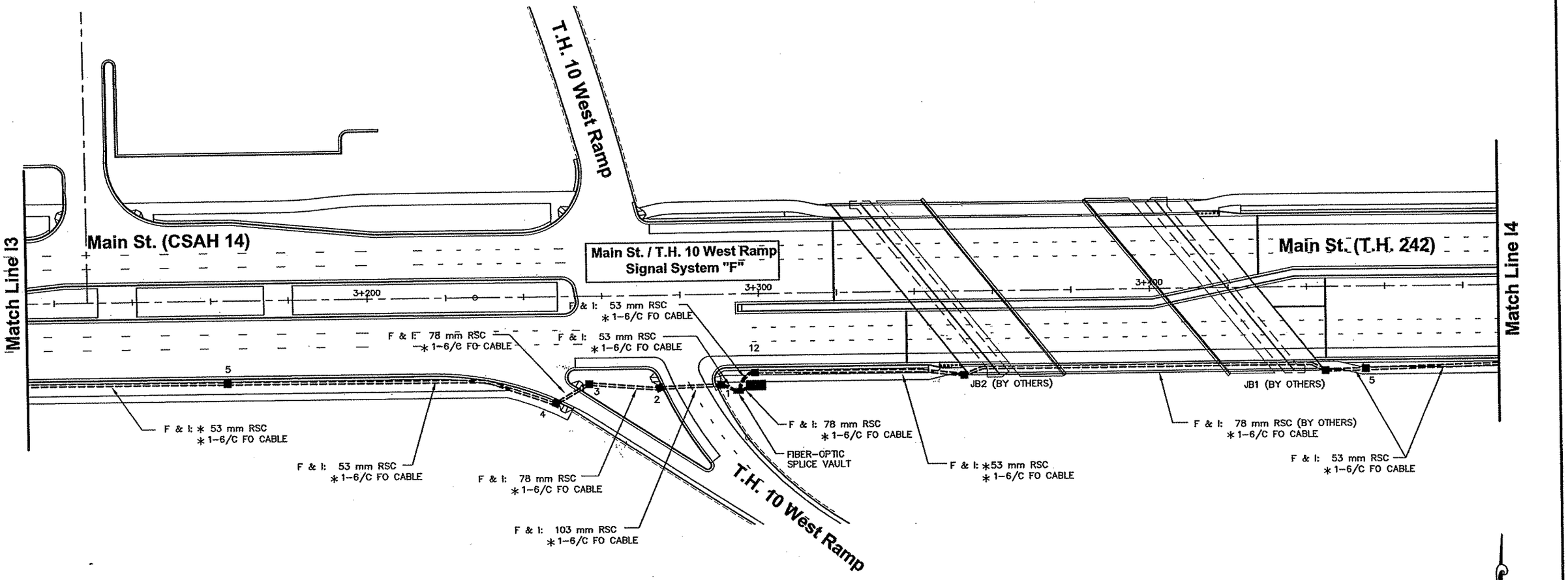
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 411 / 539

PLOT DATE: Jul 13, 2004 9:23am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\3-inter.dwg

F DRAWINGS
APBOX
NTBASE
42E-PLN
42PLNW
42-ALIW



NOTES:

1. * DENOTES ITEMS INCLUDED WITH INTERCONNECT.
2. OTHER ITEMS ARE INCLUDED AS PART OF SIGNAL SYSTEMS "A", "B", "C", "D", "E", "F", "G" OR "H". SEE SIGNAL LAYOUT SHEETS.
3. MASTER CONTROLLER UNIT IS IN PLACE AND LOCATED AT THE MAIN ST. / ROUND LAKE BLVD. INTERSECTION.

0 10 20
SCALE IN METERS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/7/2000	LOCATION & NUMBERING OF HANDHOLES UPDATED
2	JRN	1/7/2000	CONDUIT CALLOUTS UPDATED
3	JJL	7/5/00	MOD. REQ. #36: REVISED MENARDS ENTRANCE
4	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 4-INTER
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DEM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert J. Green

DATE: 11/5/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
MAIN ST. (CSAH 14) / TH 242
INTERCONNECT PLAN

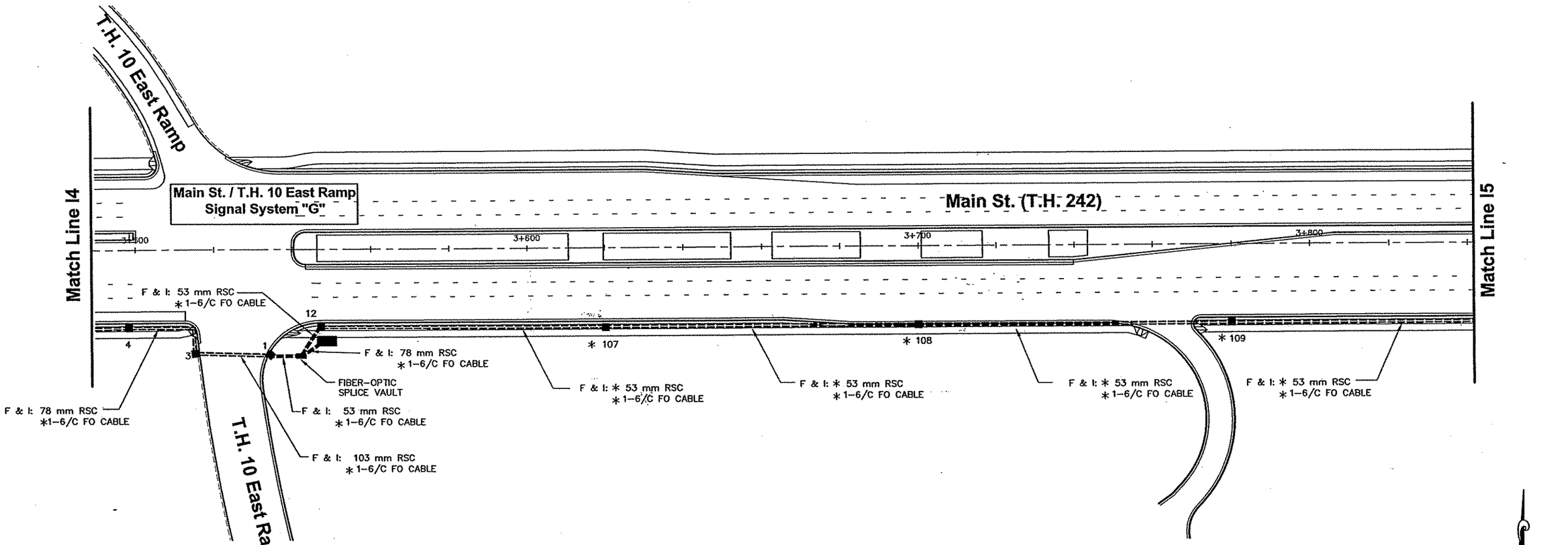
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 412 / 539

PLOT DATE: Jul 07, 2004 1:59pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\4-Inter.dwg

DRAWINGS
\PBOX
)2E--AL I
ITBASE
)2E--PLN
PLOT DATE: Jul 2004 2:08pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNAL...\in\As-Built\5-inter.dwg



NOTES:

1. * DENOTES ITEMS INCLUDED WITH INTERCONNECT.
2. OTHER ITEMS ARE INCLUDED AS PART OF SIGNAL SYSTEMS "A", "B", "C", "D", "E", "F", "G" OR "H". SEE SIGNAL LAYOUT SHEETS.
3. MASTER CONTROLLER UNIT IS IN PLACE AND LOCATED AT THE MAIN ST. / ROUND LAKE BLVD. INTERSECTION.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/7/2000	LOCATION & NUMBERING OF HANDHOLES UPDATED
2	JRN	1/7/2000	CONDUIT CALLOUTS UPDATED
3	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 5-INTER
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Robert J. Green

DATE: 11/5/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION TRAFFIC SIGNAL SYSTEM

MAIN ST. / TH 242
INTERCONNECT PLAN

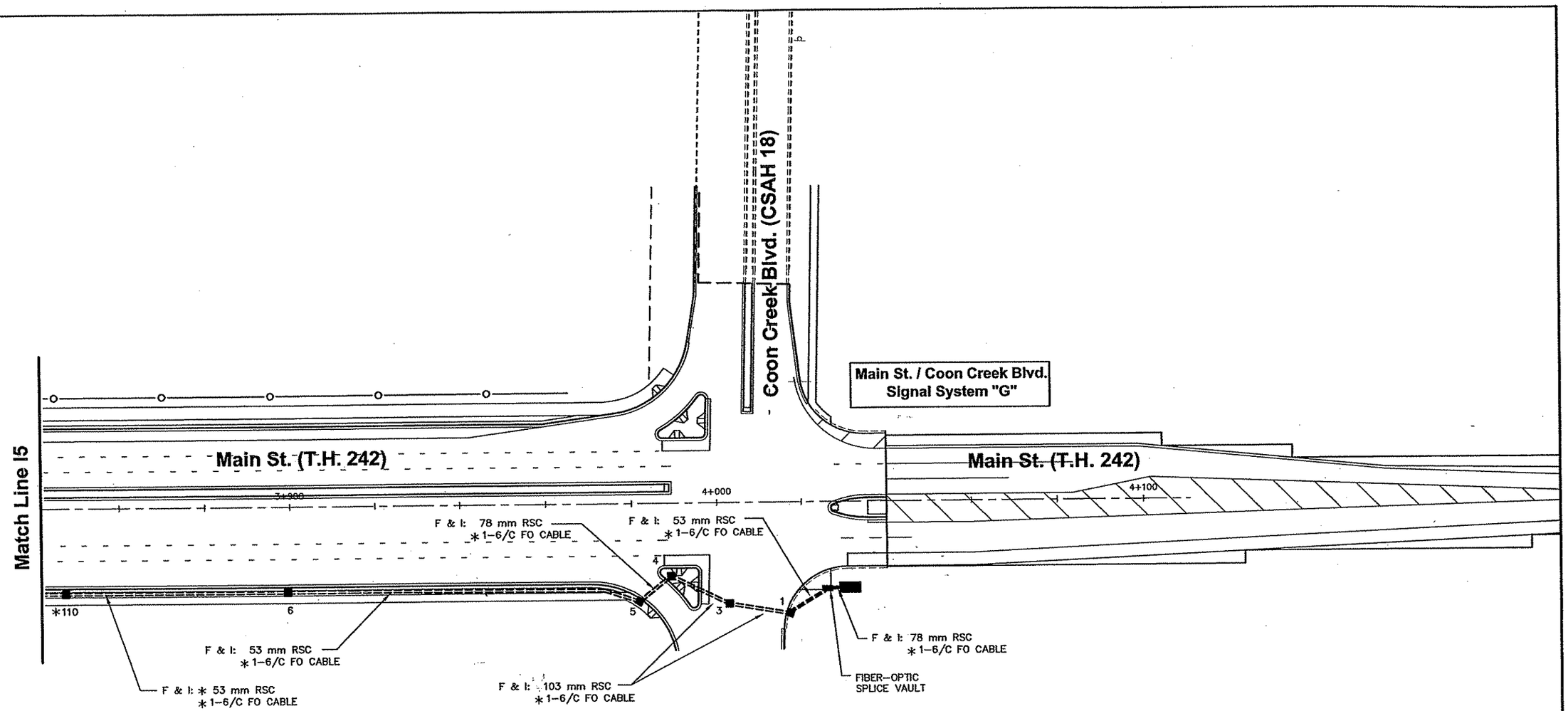
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 413 / 539

F DRAWINGS

LN2A
HETO
OX
—ALI
ASE
—PLN



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

NOTES:

1. *DENOTES ITEMS INCLUDED WITH INTERCONNECT.
2. OTHER ITEMS ARE INCLUDED AS PART OF SIGNAL SYSTEMS "A", "B", "C", "D", "E", "F", "G" OR "H". SEE SIGNAL LAYOUT SHEETS.
3. MASTER CONTROLLER UNIT IS IN PLACE AND LOCATED AT THE MAIN ST. / ROUND LAKE BLVD. INTERSECTION.

0 10 20
SCALE IN METERS

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/7/2000	LOCATION & NUMBERING OF HANDHOLES UPDATED
2	JRN	1/7/2000	CONDUIT CALLOUTS UPDATED
3	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JAS | DESIGN BY: JRN
CHKED. BY: RJG | DWG. NAME: 6-INTER
DATE: NOVEMBER 5, 1999

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Robert J. Green

DATE: 11/5/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
MAIN ST. / TH 242
INTERCONNECT PLAN

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 414 / 539

PLOT DATE: Jul 07, 2004 2:17pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\6-inter.dwg

LEGEND OF SYMBOLS	
	CABLE TRAY
	CONDUIT - F&I
	CONDUIT - INPLACE
	DETECTOR (SPECIFY) - (SPECIFY)
	DIRECT BURIED COMMUNICATION CABLE - F&I
	DIRECT BURIED COMMUNICATION CABLE - INPLACE
	DIRECT BURIED POWER CABLE - F&I
	DIRECT BURIED POWER CABLE - INPLACE
	FLASHER - F&I
	FLASHER - INPLACE
	FLASHING BEACON - F&I
	FOUNDATION F&I, GATE ARM - F&I
	FOUNDATION INPLACE, GATE ARM - F&I
	GATE ARM - INPLACE
	GUARDRAIL END TREATMENT (SPECIFY) - (SPECIFY)
	GUARDRAIL (PLATE BEAM) - (SPECIFY)
	HANDHOLE - F&I
	HANDHOLE - INPLACE
	JUNCTION BOX OR CONDULET - F&I
	JUNCTION BOX OR CONDULET - INPLACE
	LANE ARROW
	OVERHEAD SIGN - F&I
	OVERHEAD SIGN - INPLACE
	PAD (SPECIFY) - F&I
	PAD (SPECIFY) - INPLACE
	PEDESTAL - F&I
	PEDESTAL - INPLACE
	RAMP CONTROL SIGNAL (DESIGN ONE-WAY) - F&I
	RAMP CONTROL SIGNAL (DESIGN TWO-WAY) - F&I
	RAMP CONTROL SIGNAL (DESIGN ONE-WAY) - INPLACE
	RAMP CONTROL SIGNAL (DESIGN TWO-WAY) - INPLACE

LEGEND OF SYMBOLS	
	SHELTER (TMS) - F&I
	SHELTER (TMS) - INPLACE
	SIGN (TYPE A OR D) - (SPECIFY)
	SIGN (TYPE C) - (SPECIFY)
	SIGN (TYPE CMS) - (SPECIFY)
	SIGNAL FACE - F&I
	SIGNAL FACE - INPLACE
S	SPLICE CABINET (SPECIFY) - (SPECIFY)
FO	SPLICE VAULT (FIBER OPTIC) - (SPECIFY)
	TELEVISION CAMERA (CCTV) - (SPECIFY)
	WOOD POLE - F&I
	WOOD POLE - INPLACE
	WOOD POLE F&I, SERVICE INSTALLATION - F&I
	WOOD POLE INPLACE, SERVICE INSTALLATION - F&I
	WOOD POLE INPLACE, SERVICE INSTALLATION - INPLACE
P	FIBER PATCHING SHELTER - F&I
	OUTDOOR FIBER SPLICE ENCLOSURE - F&I

STANDARD PLATES

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT

PLATE NO.	DESCRIPTION
M8112 C	PEDESTAL FOUNDATION

AF

TABULATION OF ESTIMATED QUANTITIES

ITEM	UNIT	SP 0212-40 EST QUAN
PEDESTAL FOUNDATION	EACH	1
HANDHOLE TYPE-PVC CONCRETE COVER	EACH	8
HANDHOLE TYPE-PVC METAL COVER	EACH	1
53 mm NON-METALLIC CONDUIT	m	5
78 mm NON-METALLIC CONDUIT	m	100
LOOP DETECTOR DESIGN PREFORMED	EACH	5

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TMS COMPONENTS AND TABULATION OF ESTIMATED QUANTITIES

REV. NO.	DATE: / /
REV. NO.	DATE: / /

CERTIFIED BY Marvin R Jensen PROFESSIONAL ENGINEER REG.NO. 18431 JULY 7 1999

STATE PROJ. NO. 0212-40 (TH 242) SHEET NO. 415 OF 539 SHEETS

20 JUL 1999 13:39:30
c:\mnsrj\0212\0212tms.dgn

(1) 1-FO CABLE (36SM) & 1-FO PIGTAIL-D (6SM) (BY OTHERS)

(2) 1-FO SPLICE VAULT & OUTDOOR FIBER SPLICE ENCLOSURE (BY OTHERS)

(3) 1-FO CABLE (36SM) (BY OTHERS)

(4) 78 mm HD NMC PUSH & 1-FO CABLE (36 SM)
MAINTAIN EXTRA DEPTH TO ALLOW FOR ROADWAY EXPANSION
AND FUTURE STORM SEWER TO PASS OVER CONDUIT (BY OTHERS)

(5) 53 mm NMC & 2-FO PIGTAILS-B (6SM) (BY OTHERS)

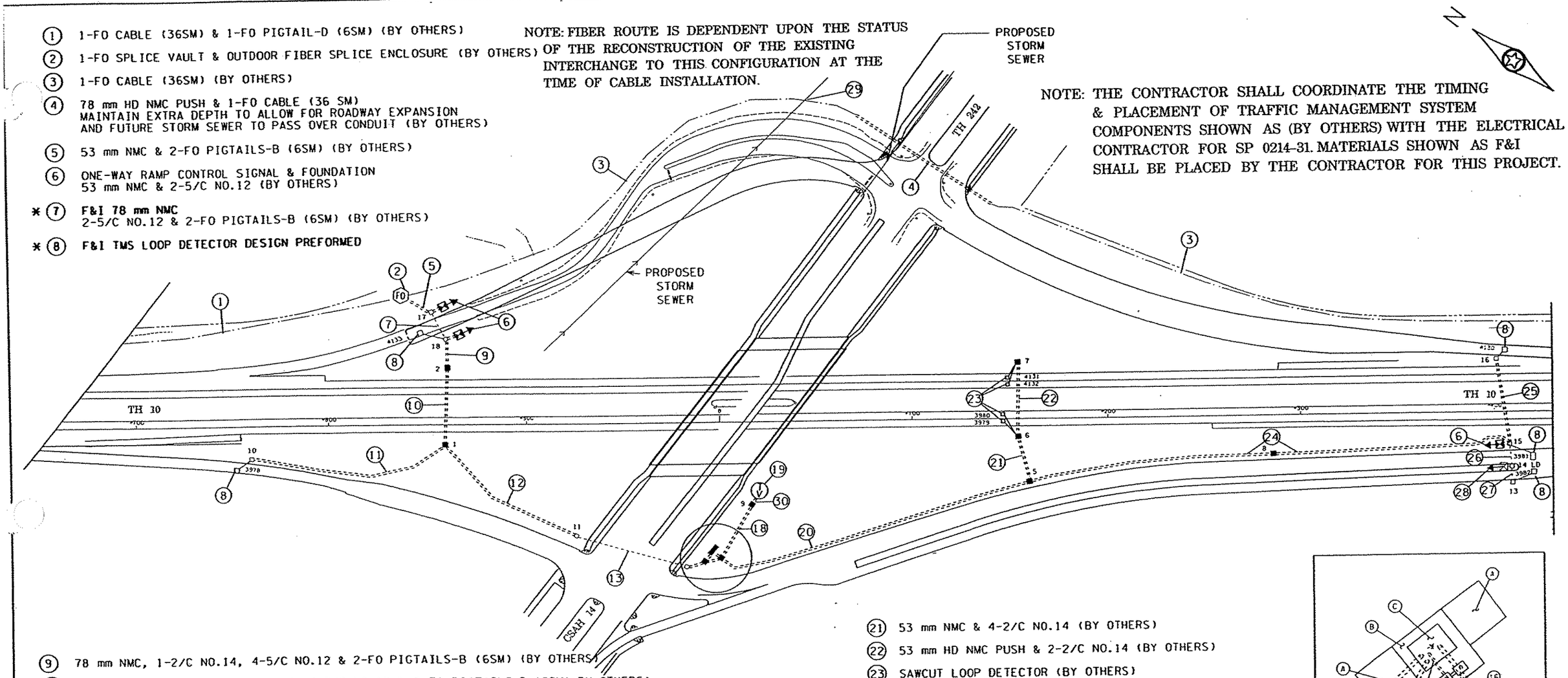
(6) ONE-WAY RAMP CONTROL SIGNAL & FOUNDATION
53 mm NMC & 2-5/C NO.12 (BY OTHERS)

* (7) **F&I 78 mm NMC**
2-5/C NO.12 & 2-FO PIGTAILS-B (6SM) (BY OTHERS)

* (8) **F&I TMS LOOP DETECTOR DESIGN PREFORMED**

NOTE: FIBER ROUTE IS DEPENDENT UPON THE STATUS OF THE RECONSTRUCTION OF THE EXISTING INTERCHANGE TO THIS CONFIGURATION AT THE TIME OF CABLE INSTALLATION.

NOTE: THE CONTRACTOR SHALL COORDINATE THE TIMING & PLACEMENT OF TRAFFIC MANAGEMENT SYSTEM COMPONENTS SHOWN AS (BY OTHERS) WITH THE ELECTRICAL CONTRACTOR FOR SP 0214-31. MATERIALS SHOWN AS F&I SHALL BE PLACED BY THE CONTRACTOR FOR THIS PROJECT.



(9) 78 mm NMC, 1-2/C NO.14, 4-5/C NO.12 & 2-FO PIGTAILS-B (6SM) (BY OTHERS)

(10) 78 mm HD NMC PUSH, 1-2/C NO.14, 4-5/C NO.12 & 2-FO PIGTAILS-B (6SM) BY OTHERS)

(11) 53 mm NMC & 1-2/C NO.14 (BY OTHERS)

(12) 78 mm NMC, 2-2/C NO.14, 4-5/C NO.12 & 2-FO PIGTAILS-B (6SM) (BY OTHERS)

* (13) **F&I 78 mm NMC,**
2-2/C NO.14, 4-5/C NO.12 & 2-FO PIGTAILS-B (6SM) (BY OTHERS)

(14) 78 mm NMC, 2-2/C NO.14 & 4-5/C NO.12 & 1-FO PIGTAIL-B (6SM) (BY OTHERS)

(15) 334 SERIES FOUNDATION (BY OTHERS)
INSTALL 334Z-99 CABINET NO. 10-227.37 (BY OTHERS)
SERVICE EQUIPMENT TYPE B WITH 15 AMP CB FOR CCTV (ADDR TH10-227.37)
SERVICE TO SOP PROVIDED BY CONNEXUS ENERGY-SEE SPECIAL PROVISIONS

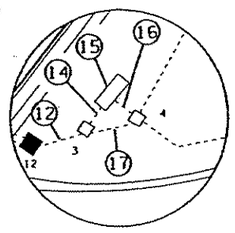
(16) 78 mm NMC, 7-2/C NO.14 & 4-5/C NO.12 (BY OTHERS)
53 mm NMC & 1-3/C NO.8 (BY OTHERS)

(17) 53 mm NMC & 1-FO PIGTAIL-B (6SM) (BY OTHERS)

(18) 53 mm NMC, 1-3/C NO.8 & 1-FO PIGTAIL-B (6SM) (BY OTHERS)

(19) CCTV HARDWARE & POLE FOUNDATION (CAM. NO. 664) (BY OTHERS)

(20) 78 mm NMC, 7-2/C NO.14 & 4-5/C NO.12 (BY OTHERS)



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(21) 53 mm NMC & 4-2/C NO.14 (BY OTHERS)

(22) 53 mm HD NMC PUSH & 2-2/C NO.14 (BY OTHERS)

(23) SAWCUT LOOP DETECTOR (BY OTHERS)

(24) 53 mm NMC, 3-2/C NO.14 & 4-5/C NO.12 (BY OTHERS)

(25) 53 mm HD HMC PUSH & 1-2/C NO.14 (BY OTHERS)

* (26) **F&I 78 mm NMC**
1-2/C NO.14 & 2-5/C NO.12 (BY OTHERS)

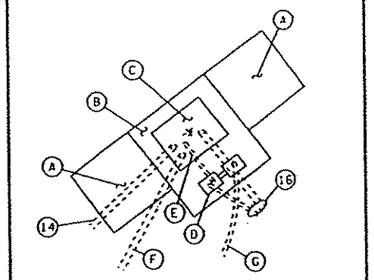
* (27) **F&I 78 mm NMC**
1-2/C NO.14 (BY OTHERS)

* (28) **F&I RAMP CONTROL SIGNAL FOUNDATION & 53 mm NMC**
ONE WAY RAMP CONTROL SIGNAL
WITH 2-5/C NO. 12 (BY OTHERS)

(29) FIBER (BY OTHERS) MAY NOT BE INSTALLED THRU THIS AREA UNTIL THE COMPLETION OF STORM SEWER CONSTRUCTION. STORM SEWER IS SCHEDULED FOR COMPLETION BY MAY 1, 2000

(30) 78 mm NMC, 1-3/C NO.8 & 1-FO PIGTAIL-B (BY OTHERS)

* (31) **F&I HANDHOLE NUMBERS 10,11,12,13,14 LD, 15, 16, 17 & 18**



A) 1 m x 1 m SIDEWALK (SEE STD. PLATE 8119C)

B) 1.2 m X 1.4 m PAD (SEE STD. PLATE 8119C)

C) 334Z-99 CABINET

D) SERVICE EQUIPTMENT TYPE B WITH 15 AMP CB FOR CCTV

E) 38 mm RSC & 3-1/C NO. 6

F) 78 mm NMC STUB OUT CAPPED

G) 53 mm NMC STUBOUT FOR ELECTRIC SERVICE

CABINET NO. 10-227.37
(BY OTHERS)

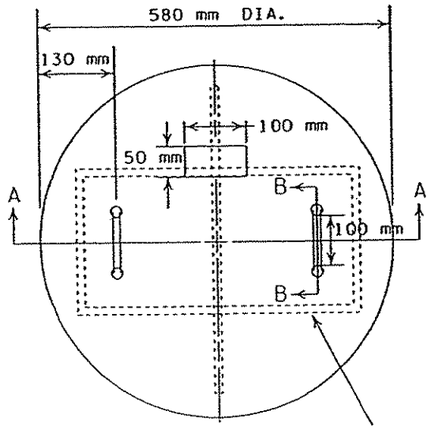
* DENOTES WORK TO BE PERFORMED UNDER SP 0212-40

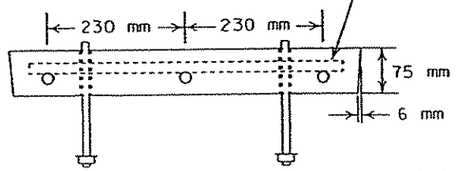
TMS AT TH 10 AND CSAH 14/TH 242

REV. NO.	DATE: / /
REV. NO.	DATE: / /

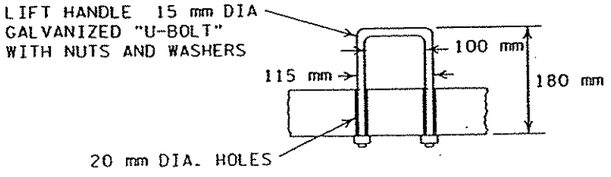
CERTIFIED BY Marcus R. Jensen REG.NO. 18431 JULY 7 1999
PROFESSIONAL ENGINEER

STATE PROJ. NO. 0212-40 (TH 242) SHEET NO. 416 OF 539 SHEETS





SECTION A-A

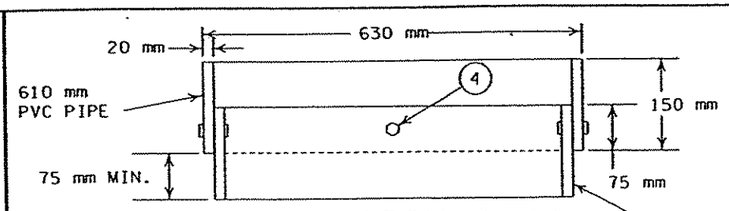


SECTION B-B

NOTES:

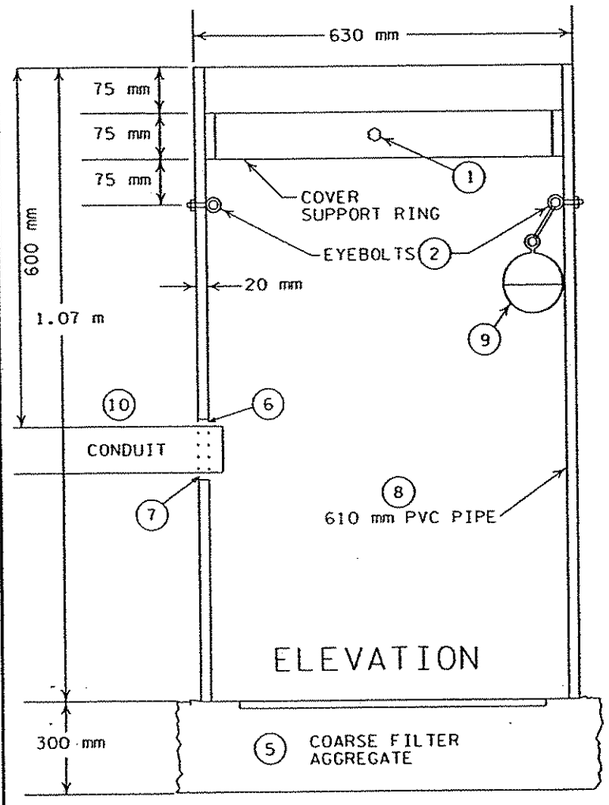
1. INSTALL NUMBER 3 STEEL REINFORCEMENT BARS IN 230 mm RECTANGLES, COAT THE BARS WITH EPOXY AS PER MN/DOT 3301
2. COAT THE ENTIRE COVER WITH EPOXY PER MN/DOT CONCRETE MANUAL 5-694.184E AND AS RECOMMENDED BY THE EPOXY MANUFACTURER.
3. USE 3U32 CONCRETE AS PER MN/DOT 2461.
4. EMBOSS THE CONCRETE COVER WITH "TMS" IN 50 mm LETTERS 5 mm DEEP.

CONCRETE COVER



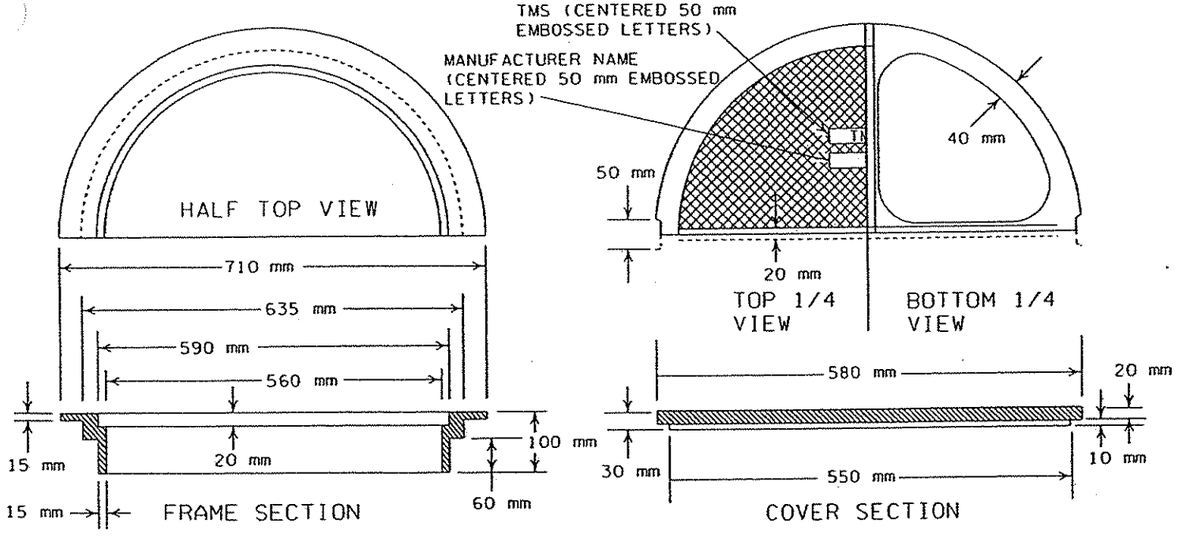
EXTENSION RING
AS REQUIRED

USE APPROVED P.V.C. CEMENT TO ATTACH EXTENSION RING TO HANDHOLE



ELEVATION

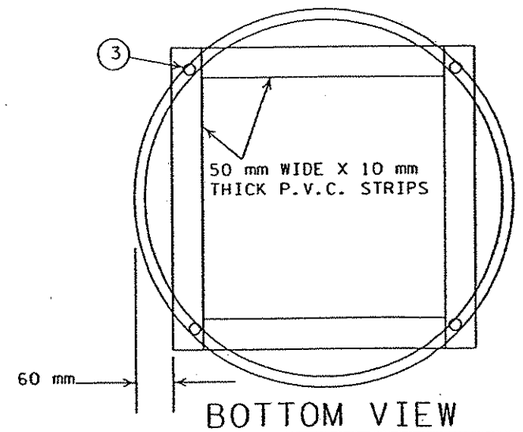
1. ATTACH SPLIT 610 mm DIA. P.V.C. COVER SUPPORT RING WITH FOUR 10mm DIA. X 50 mm LONG BOLTS AND NUTS AT 90° APART.
2. TWO TYPE 2 SHOULDER EYEBOLTS, 10 mm DIA. X 30 mm SHANK LENGTH, WITH HEX. NUTS AT 180° APART (FOR LIFTING HANDHOLES AND SUPPORTING ELECTRICAL CABLES).
3. FOUR 6.4 mm X 30 mm LONG GALVANIZED LAG SCREWS.
4. ATTACH SPLIT 610 mm DIA. PVC EXTENSION RING WITH FOUR 10 mm DIA. X 50mm LONG BOLTS AT 90° APART. THE BOLTS & NUTS COMPLY WITH MN/DOT 3391.2E, THE OTHER HARDWARE WITH 3392.
5. COMPACT COARSE FILTER AGGREGATE COMPLYING WITH MN/DOT 3149.2H TO A 300 mm DEPTH.
6. CONDUIT ENTRANCES IN THE BARREL ARE SIZED 25 mm LARGER THAN THE CONDUIT USED.
7. PLUG HANDHOLE AT CONDUIT INSTALLATION, PROVIDING A WATER TIGHT SEAL.
8. THE PVC PIPE COMPLIES WITH ASTM F 9T-1.
9. INSTALL ORANGE LOCATER BALL WITH TIE WRAP TO EYE BOLT
10. MINIMUM CONDUIT DEPTH FOR LOOP LEAD-IN WIRES SHALL BE 460 mm



FRAME AND COVER CASTING

NOTE:
ALL CASTINGS ARE GRAY IRON PER MN/DOT SPEC. 3321 CLASS 35B

LIGHT DUTY METAL COVER



BOTTOM VIEW

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HANDHOLE DETAIL

REV. NO.	DATE: / /
REV. NO.	DATE: / /

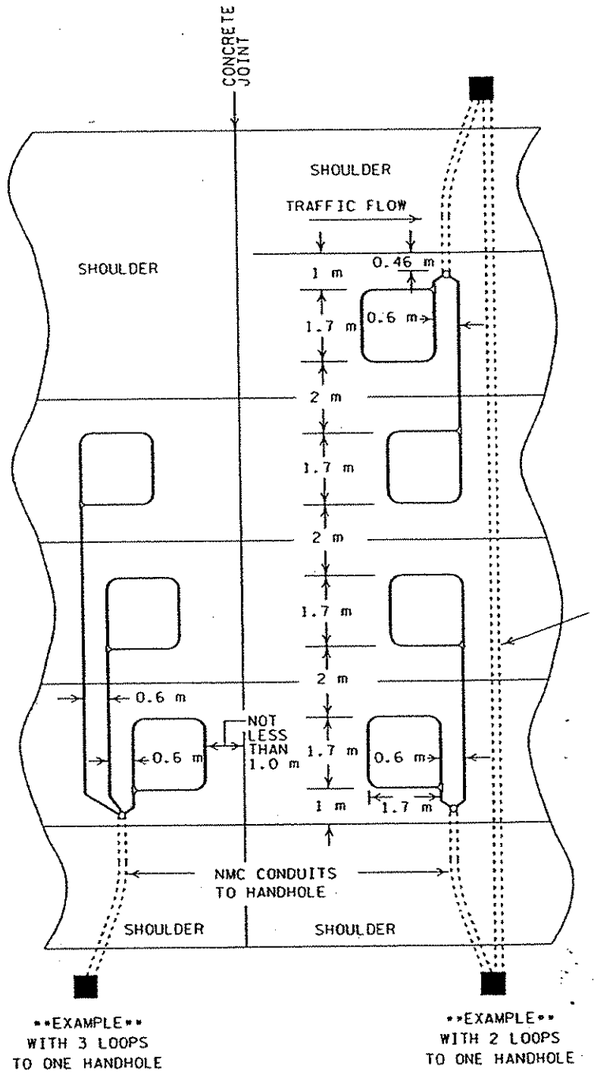
CERTIFIED BY Maureen R Jensen PROFESSIONAL ENGINEER REG.NO. 18431 JULY 7 1999

STATE PROJ. NO. 0212-40 (TH 242) SHEET NO. 417 OF 539 SHEETS

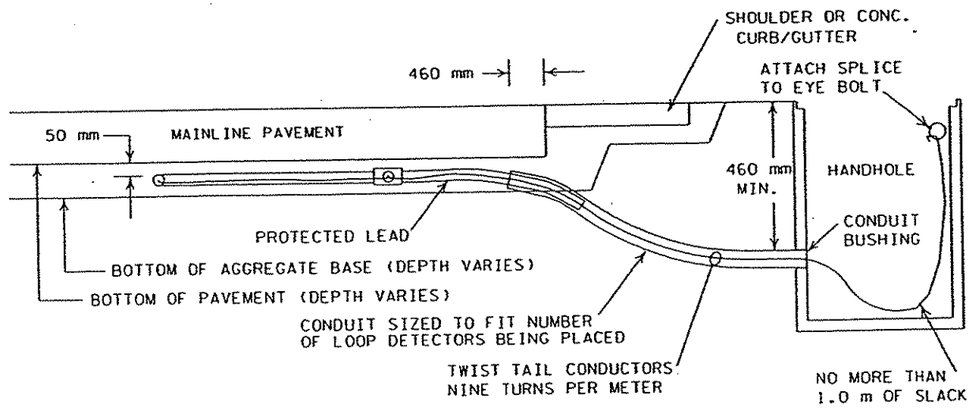
GENERAL NOTES:

1. SEE SPECIAL PROVISIONS FOR REQUIRED LOOP DETECTOR CONDUCTORS AND SPLICE KIT.
2. THE LOOP DETECTOR HEAD SHALL BE 16 mm O.D. POLYPROPOLYENE CONDUIT AND SHALL BE INJECTED WITH HOT RUBBERIZED ASPHALT AFTER CONDUCTOR PLACEMENT TO ENCAPSULATE THE WIRE AND PROVIDE A MOISTURE BARRIER
3. PREFORMED LOOP DETECTORS ARE VARIABLE SIZED DEPENDING ON ROADWAY LOCATION AND SHALL BE INSTALLED IN THE CENTER OF THE LANE.
4. THE LOOP DETECTOR CONDUCTOR IS 1/C NO. 16 XHHW STRANDED COPPER.
5. THE PROTECTED LEAD PORTION OF LOOP SHALL EXTEND FROM THE TEE CONNECTOR TO THE SHOULDER OR CURB, ENDING A MIN. OF 300 mm INSIDE THE NMC CONDUIT
6. THE LOOP DETECTOR CONDUCTORS SHALL BE TWISTED NINE TURNS PER METER FROM THE NMC TEE CONNECTOR TO THE HANDHOLE.
7. EACH LOOP DETECTOR CONDUIT TO THE HANDHOLE SHALL BE SLOPED TOWARDS THE HANDHOLE.
8. THE LOOP DETECTOR CONDUCTORS SHALL END IN THE HANDHOLE.
9. NO SPLICES ALLOWED IN LOOP CONDUCTOR EXCEPT AT HANDHOLE
10. SEE SPECIAL PROVISIONS FOR TESTING REQUIREMENTS OF LOOP DETECTORS
11. THE LOOP DETECTOR CONDUCTORS AND THE LOOP DETECTOR LEAD-IN CABLE CONDUCTORS SHALL BE PROPERLY PREPARED AND CLEANED BEFORE SPLICING. SOLDER THE LOOP CONDUCTOR TO LEAD-IN CONDUCTORS. INSTALL THE SPLICE IN WIRE NUT, THEN PLACE IT INTO THE SPLICE ENCAPSULATOR
12. INSTALL THE SPLICE IN A PLASTIC TUBE WITH END CAPS THAT FUNCTION AS SPOUTS, AND A TWO PART PLASTIC ENVELOPE CONTAINING RESINS THAT TURN BLACK WHEN MIXED AND BECOME HARD WHEN CURED. INSTALL BOTH LOOP CONDUCTORS AND LEAD-IN INTO THE SAME END OF THE TUBE AND ENCAPSULATE THE SPLICE.
13. THE LOOP INSULATION RESISTANCE READING MUST BE GREATER THAN 100 MEG OHM.
14. "NEVER FAIL LOOP SYSTEMS" DETECTORS-MODEL A WITH THE MODIFICATIONS NOTED HAVE MET THESE REQUIREMENTS

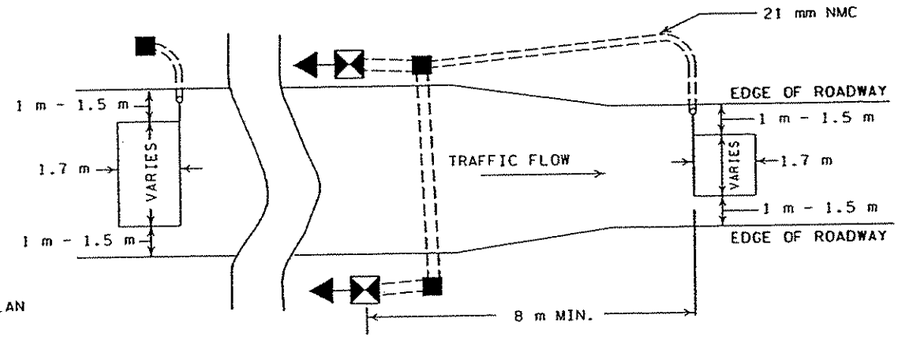
CONTRACTOR SHALL SPECIFY XHHW TYPE WIRE, LOOP DETECTOR TAIL LENGTH AND 5 TURNS OF WIRE WHEN ORDERING PREFORMED LOOP DETECTORS



MAINLINE DETECTORS

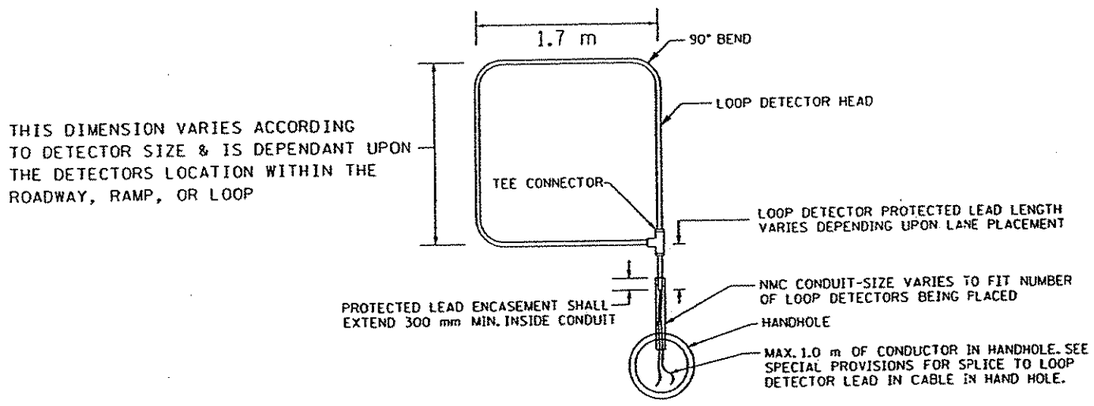


CONDUIT/HANDHOLE INSTALLATION



QUEUE LOOP

RAMP LOOP DETECTION



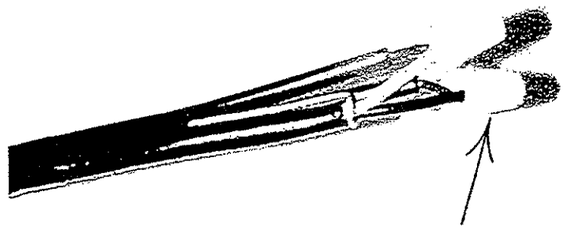
TYPICAL PREFORMED LOOP DETECTOR DETAIL

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TMS "PREFORMED" LOOP DETECTOR-PART ONE

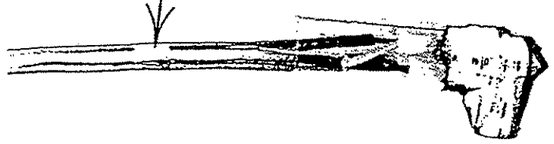
REV. NO. 1	DATE: 07/07/99
REV. NO.	DATE: / /

CERTIFIED BY Marvin R Jensen PROFESSIONAL ENGINEER REG.NO. 18431 JULY 7 1999

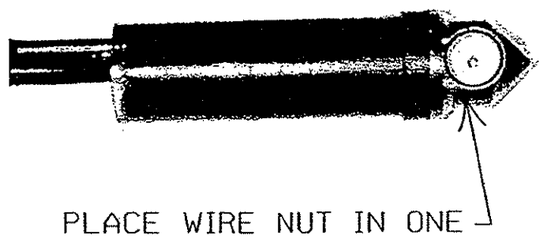


SOLDERED BUTT SPLICE IN WIRE NUT

TAPE WIRE TOGETHER BEFORE SPLICE

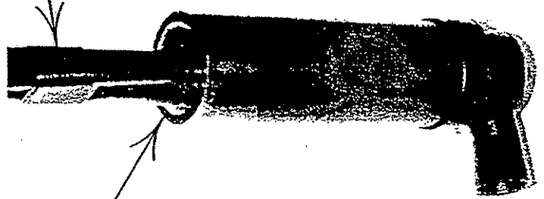


PLACE IN ENCAPSULATOR



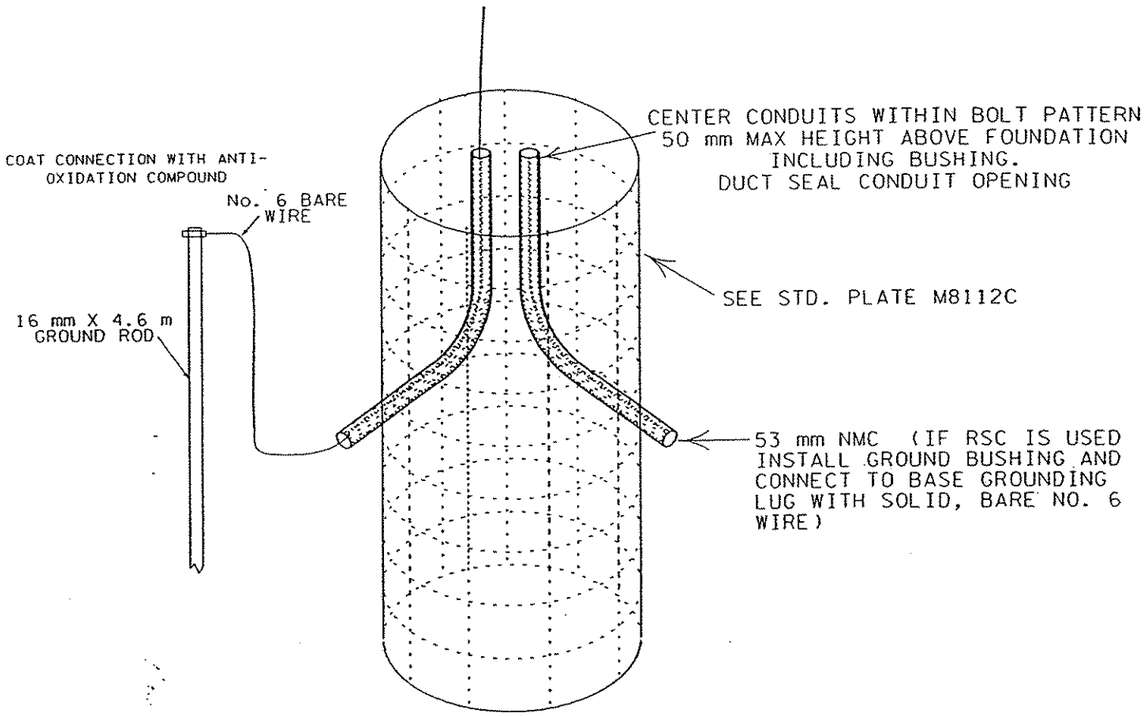
PLACE WIRE NUT IN ONE END TO BLOCK OPENING

TAPE



FILL ENCAPSULATOR COMPLETELY-ALLOW FINISHED SPLICE TO CURE SO EPOXY DOES NOT RUN OUT

LOOP DETECTOR SPLICE FOR SAWCUT AND NMC LOOPS



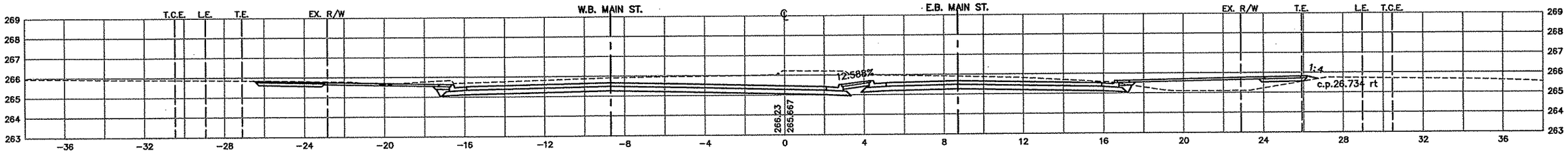
RAMP CONTROL SIGNAL FOUNDATION

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RAMP CONTROL SIGNAL FOUNDATION
TMC LOOP DETECTOR TYPICAL-PART TWO

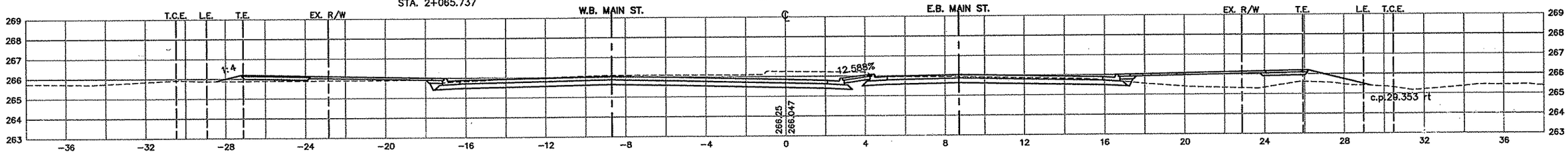
ARCH DRAWINGS
\4TH-XS

2+080



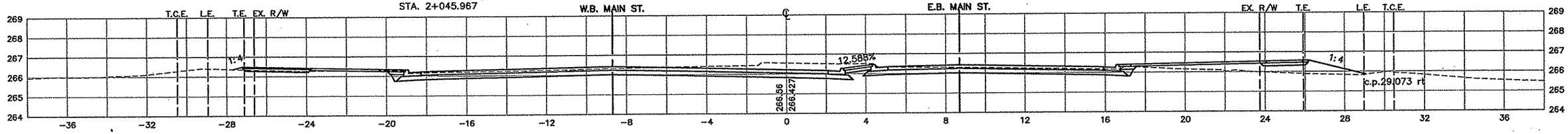
END 1:5 TAPER, LT.
STA. 2+065.737

2+060



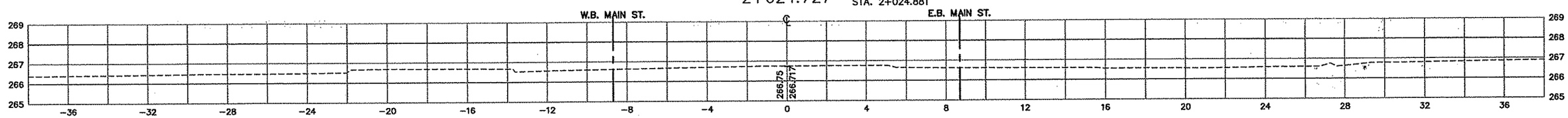
BEGIN 1:5 TAPER, LT.
STA. 2+045.967

2+040

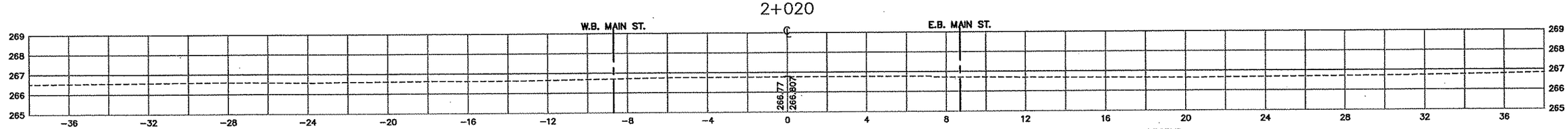


2+024.727

BEGIN CONSTRUCTION
STA. 2+024.881



2+020



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BEGIN S.A.P. 02-614-19
BEGIN S.A.P. 114-020-19
BASELINE STA. 2+007.965

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/84	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+020.000 TO STATION 2+080.000

CITY PROJECT 98-20

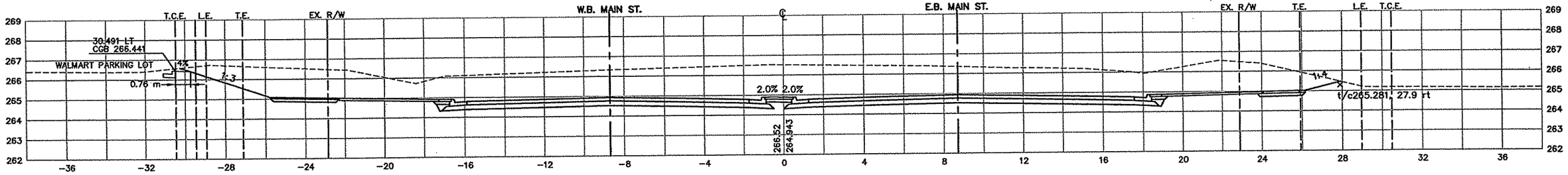
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 420 / 539

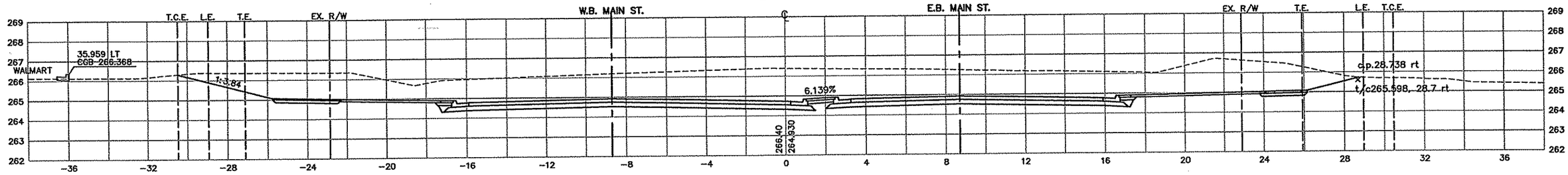
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ARC DRAWINGS
ITH-XS

2+160



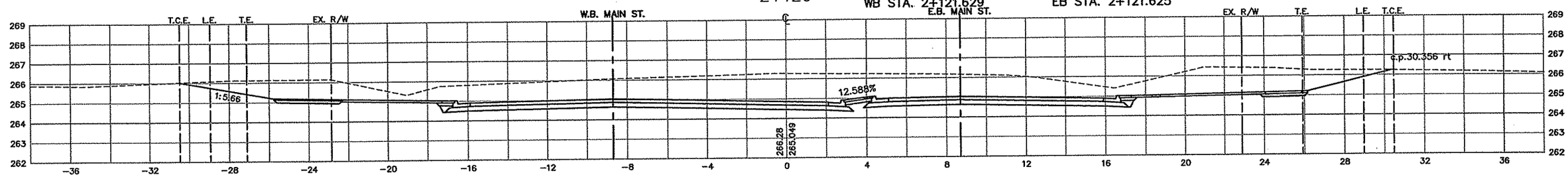
2+140



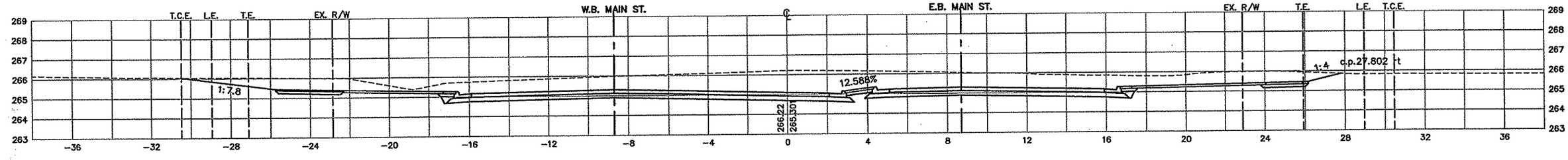
2+120

BEGIN 1:5 TAPER, RT.
WB STA. 2+121.629

BEGIN 1:5 TAPER, RT.
EB STA. 2+121.625



2+100



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+100.000 TO STATION 2+160.000

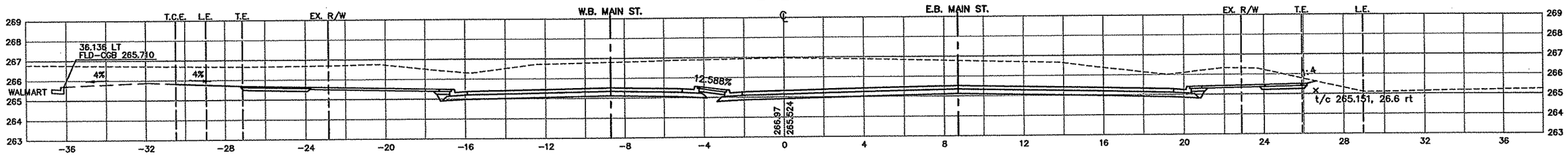
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

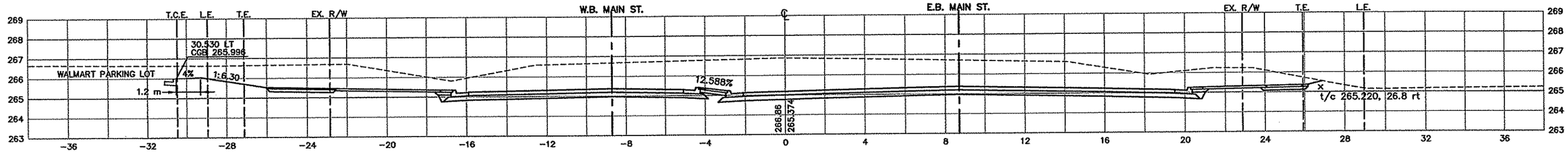
SHEET NO. 421 / 539

PLOT DATE: Mar 2,...001 4:13pm DISK FILE NAME: (15.0) R:\33889\33889028\33889w\xsec\plan...\242xs-02.dwg

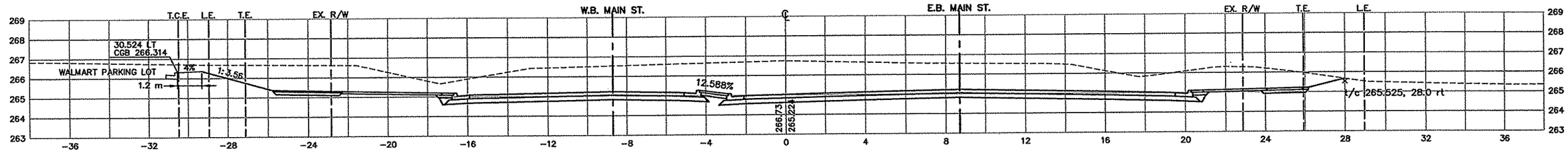
2+240



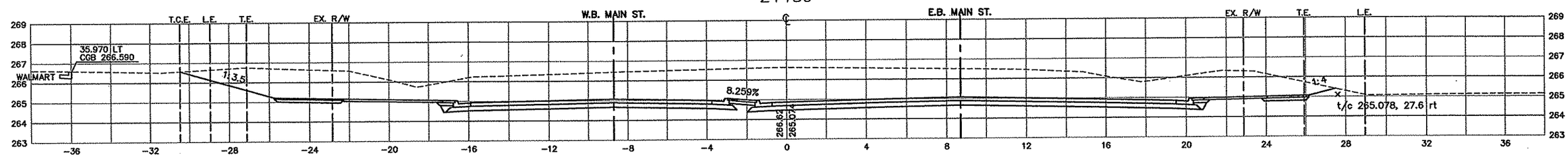
2+220



2+200



2+180



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+180.000 TO STATION 2+240.000

CITY PROJECT 98-20

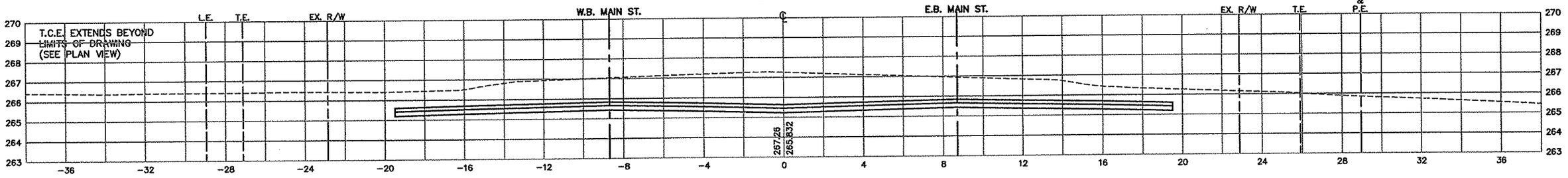
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 422 / 539

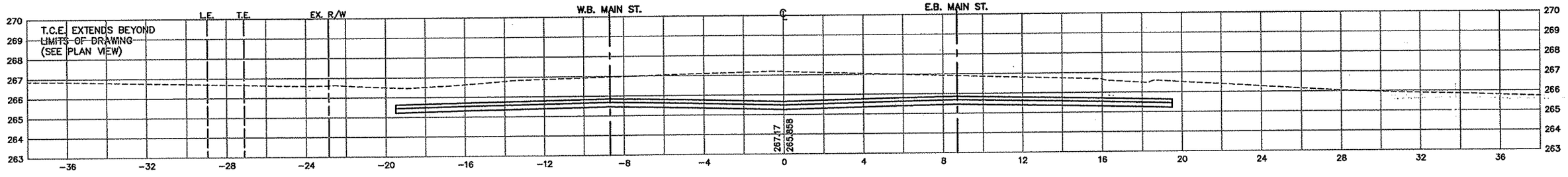
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XREF DRAWINGS
24TH-XS

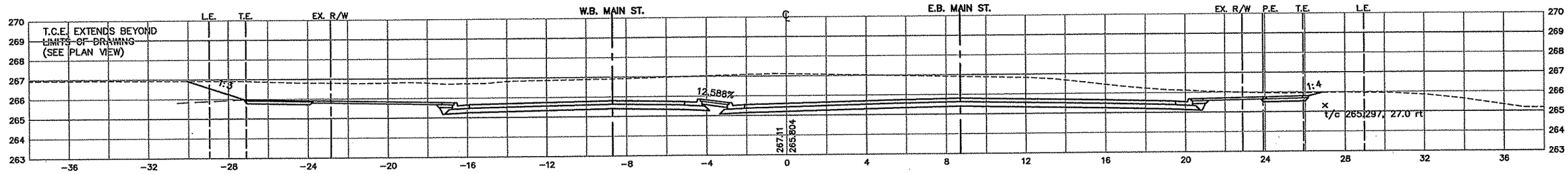
2+320



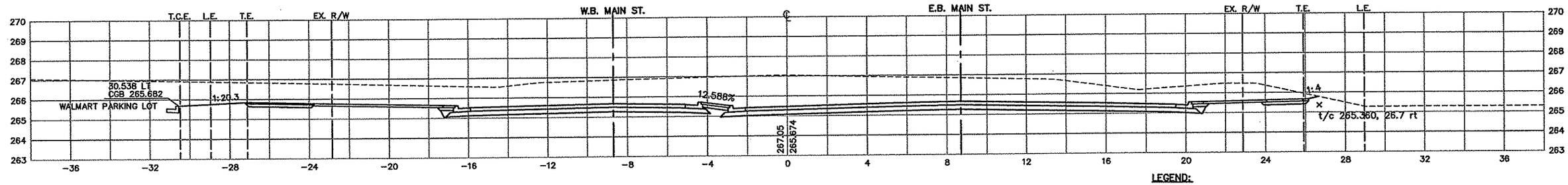
2+300



2+280



2+260



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-04
DATE: NOVEMBER 5, 1999

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+260.000 TO STATION 2+320.000

CITY PROJECT 98-20

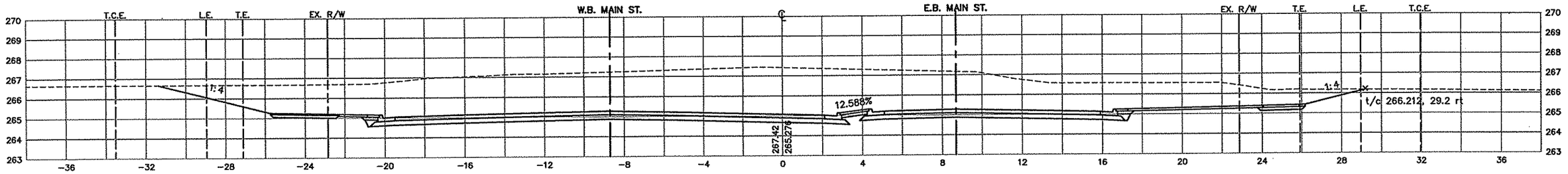
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 423 / 539

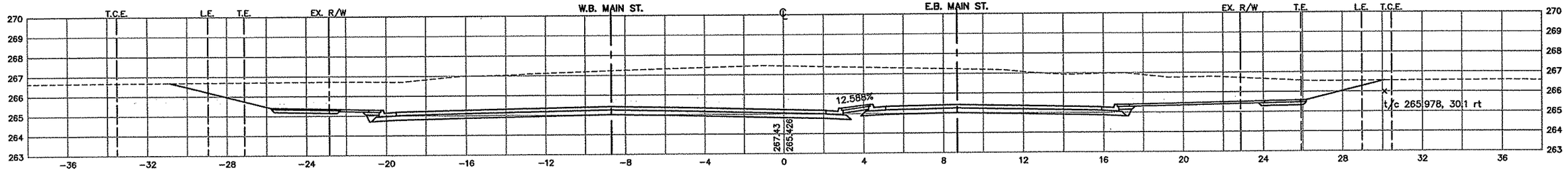
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ANCI DRAWINGS
4TH-XS

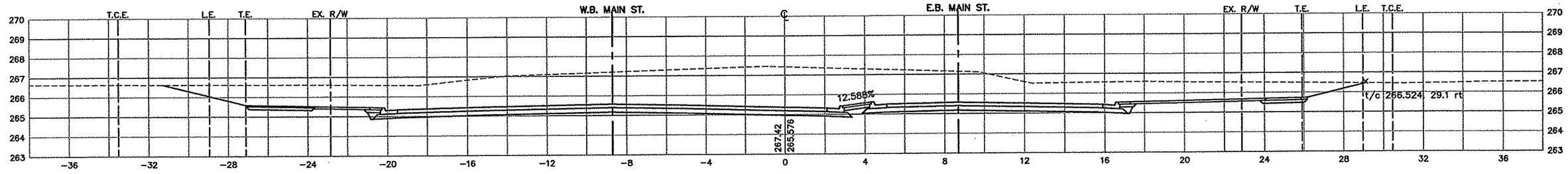
2+400



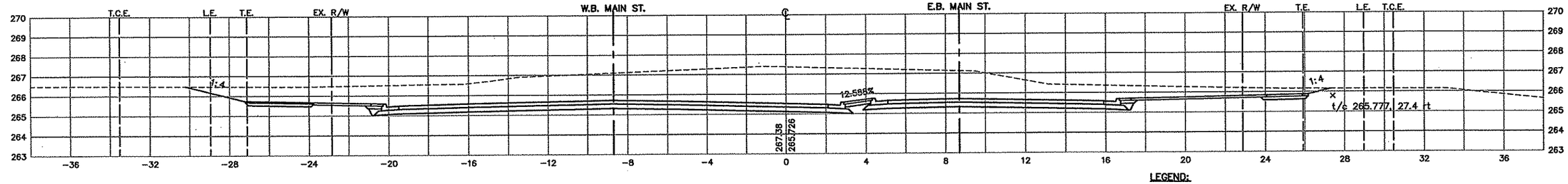
2+380



2+360



2+340



LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-05
DATE: NOVEMBER 5, 1999

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+340.000 TO STATION 2+400.000

CITY PROJECT 98-20

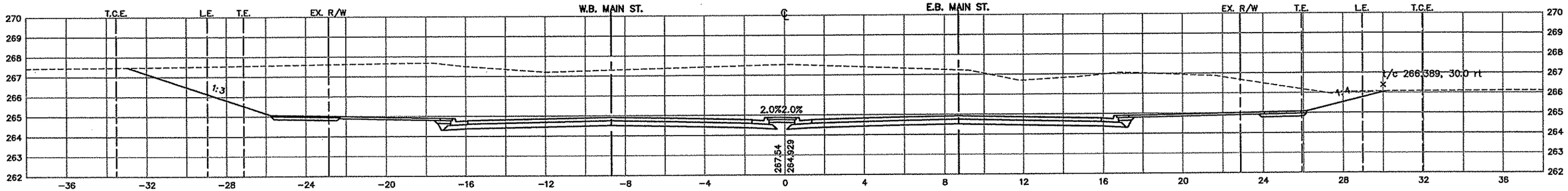
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 424 / 539

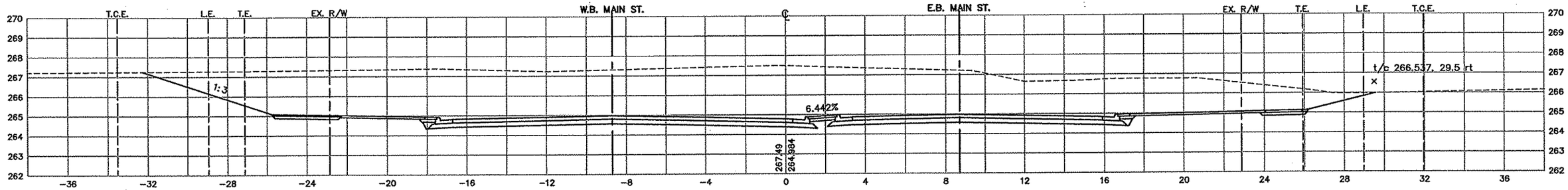
PLOT DATE: Jan 03, 2000 11:24am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs-05.dwg

ARCH DRAWINGS
MATH-XS

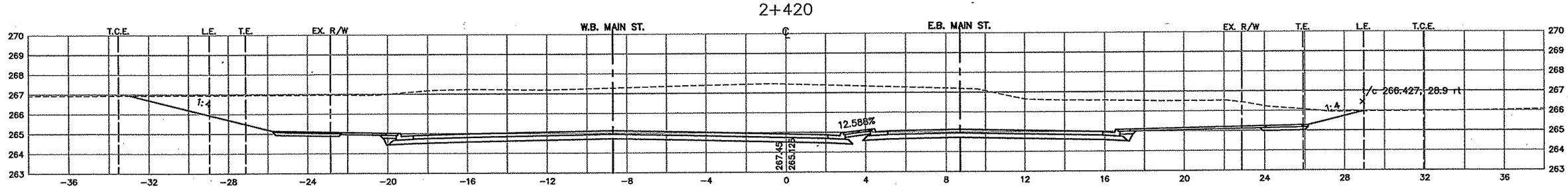
2+460



2+440



2+420



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-06
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+420.000 TO STATION 2+460.000

CITY PROJECT 98-20

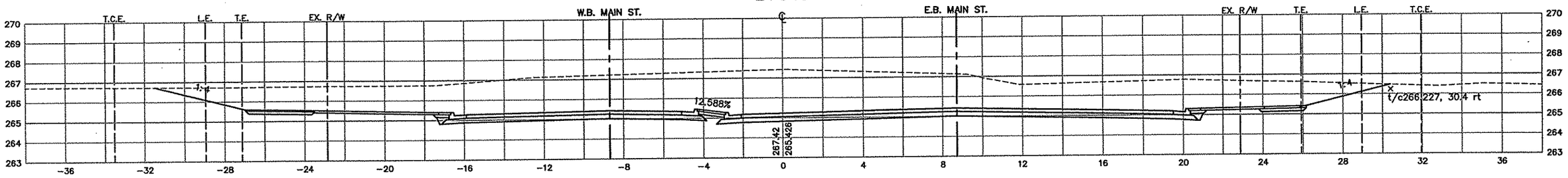
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 425 / 539

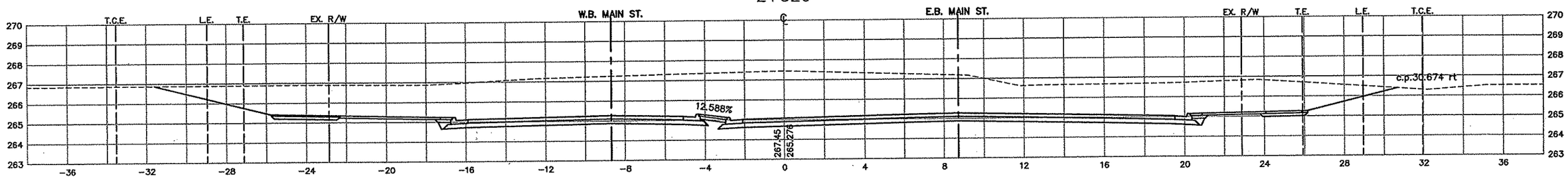
PLOT DATE: Jan 0...000 11:24am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\pla...nt\242xs-06.dwg

XREF DRAWINGS
MATH-XS

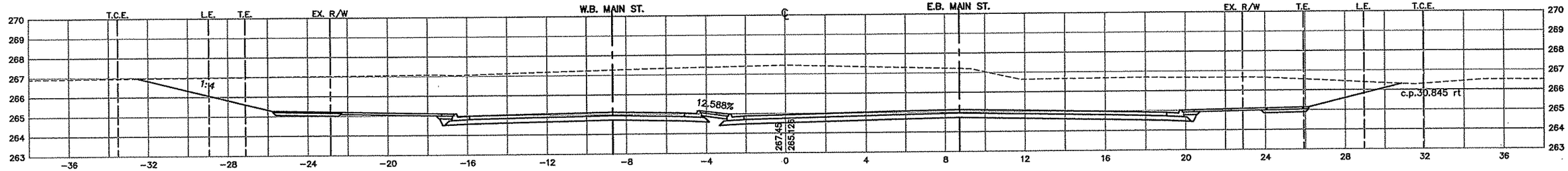
2+540



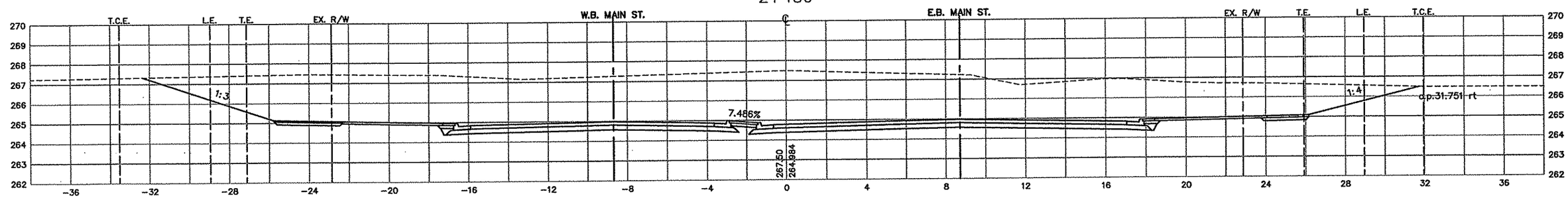
2+520



2+500



2+480



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+480.000 TO STATION 2+540.000

CITY PROJECT 98-20

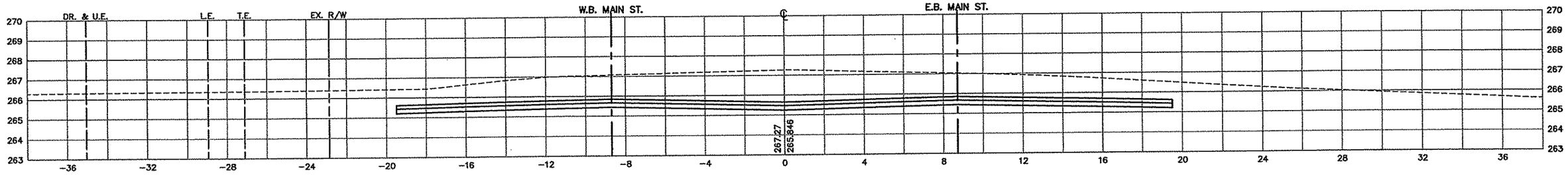
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 426 / 539

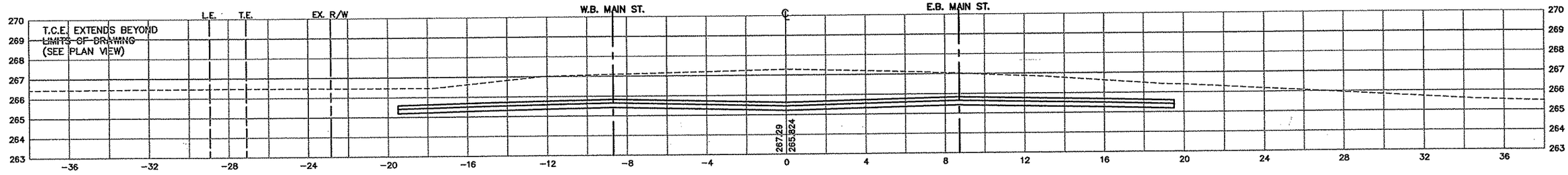
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ADD DRAWINGS
4TH-XS

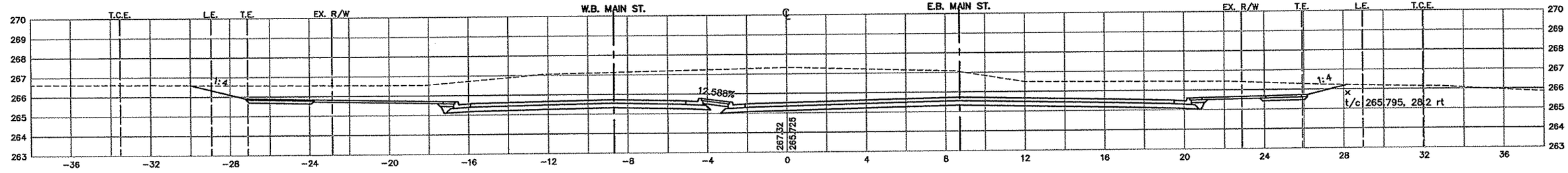
2+620



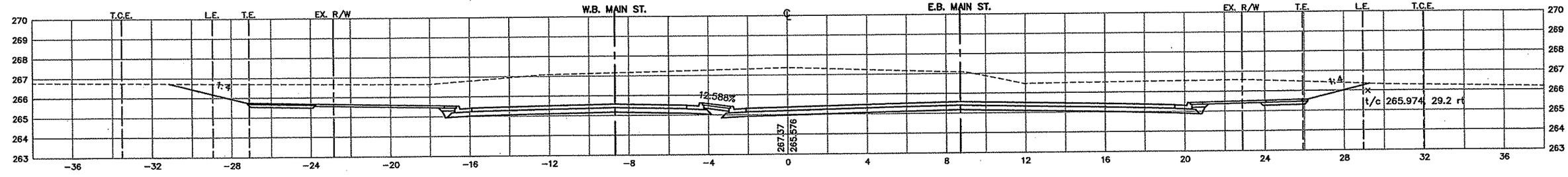
2+600



2+580



2+560



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT
DR. & U.E.	DRAINAGE AND UTILITY EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+560.000 TO STATION 2+620.000

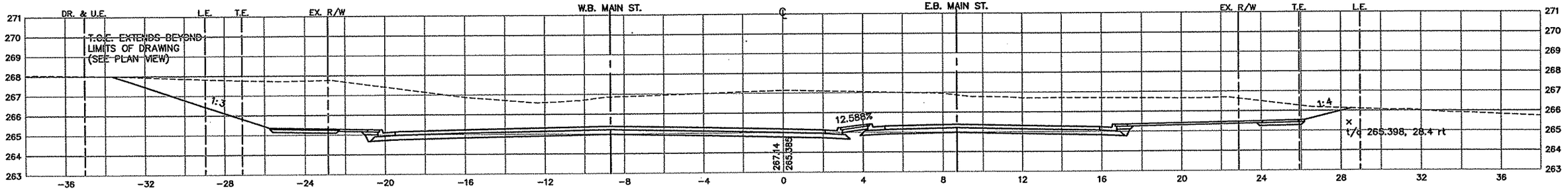
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

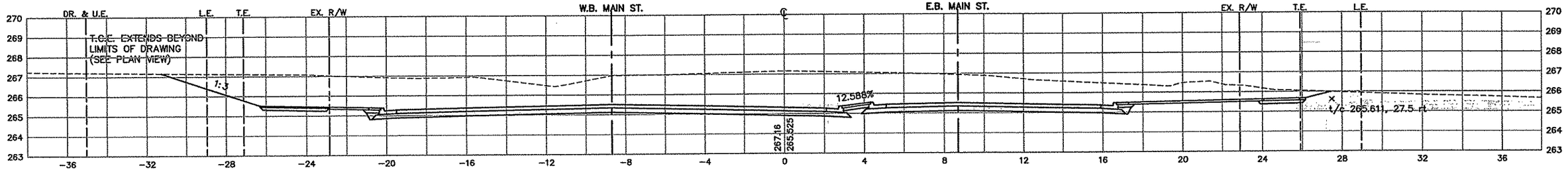
SHEET NO. 427 / 539

PLOT DATE: Jan 03, 2000 11:26am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs-08.dwg

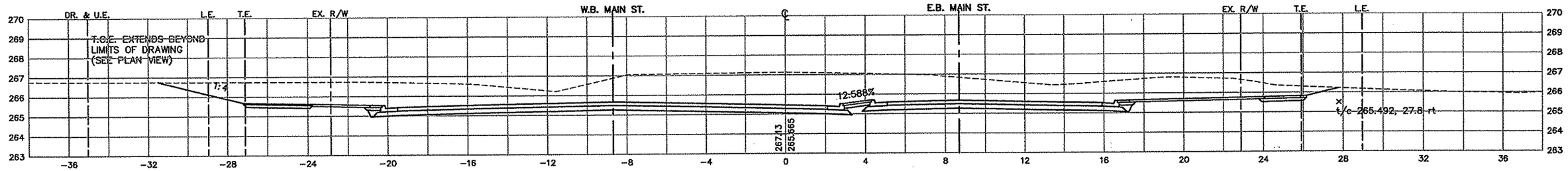
2+700



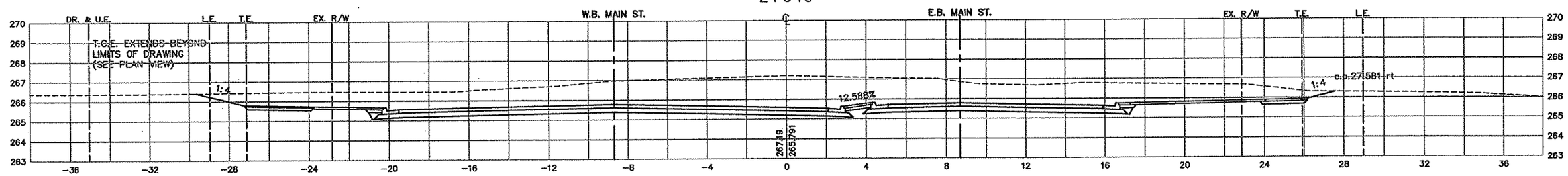
2+680



2+660



2+640



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT
DR. & U.E.	DRAINAGE AND UTILITY EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-09
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+640.000 TO STATION 2+700.000

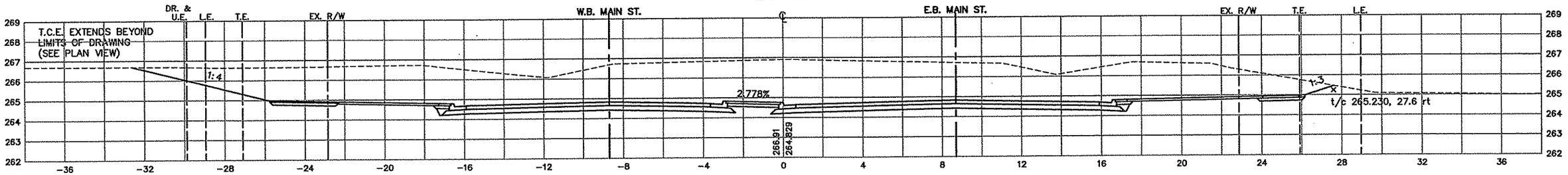
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

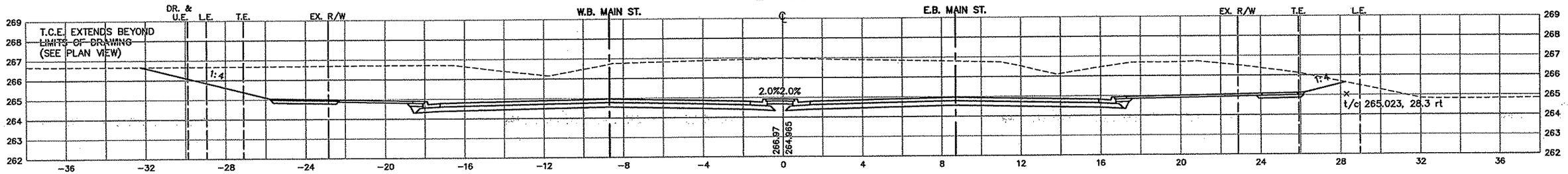
SHEET NO. 428 / 539

PLOT DATE: Jan 07, 2000 11:26am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan\242xs-09.dwg

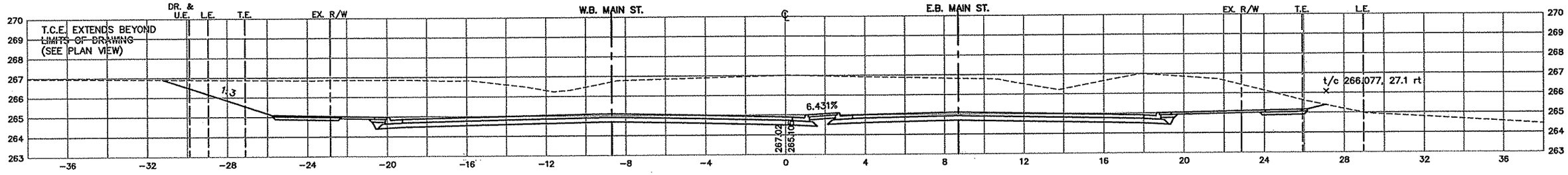
2+780



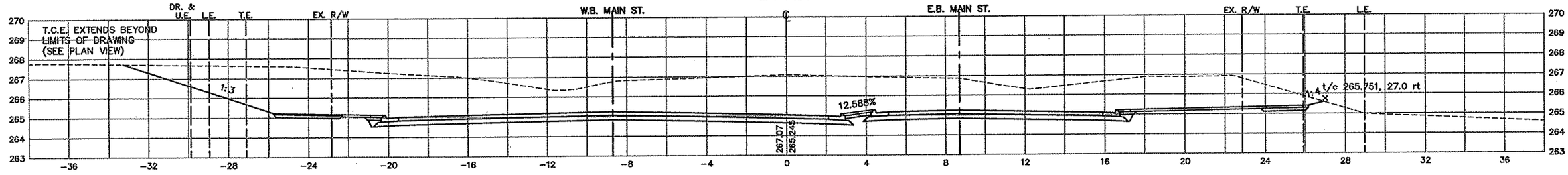
2+760



2+740



2+720



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT
DR. & U.E.	DRAINAGE AND UTILITY EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-10
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)

CROSS SECTIONS
STATION 2+720.000 TO STATION 2+780.000

CITY PROJECT 98-20

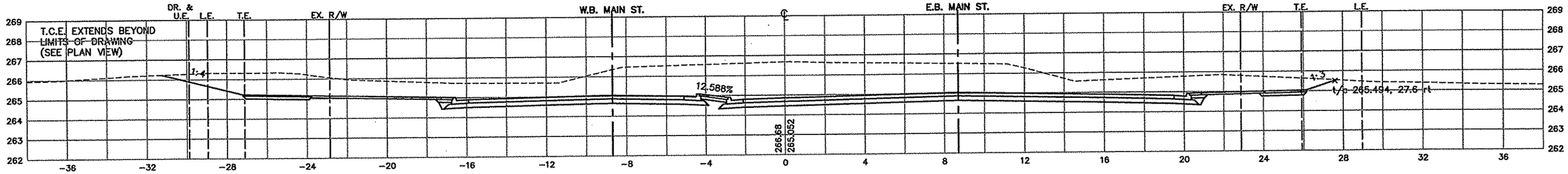
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 429 / 539

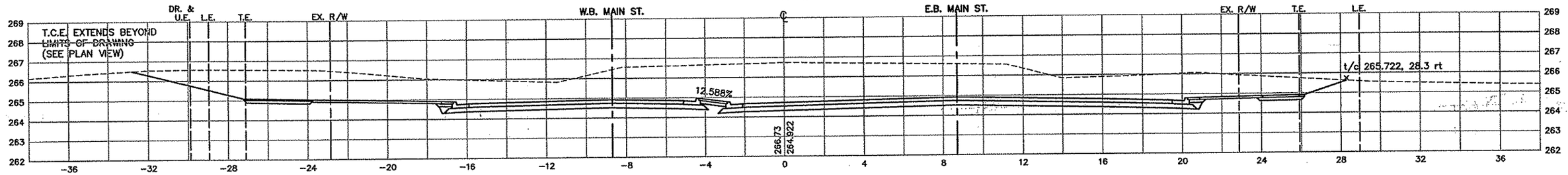
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ARCH DRAWINGS
14TH-XS

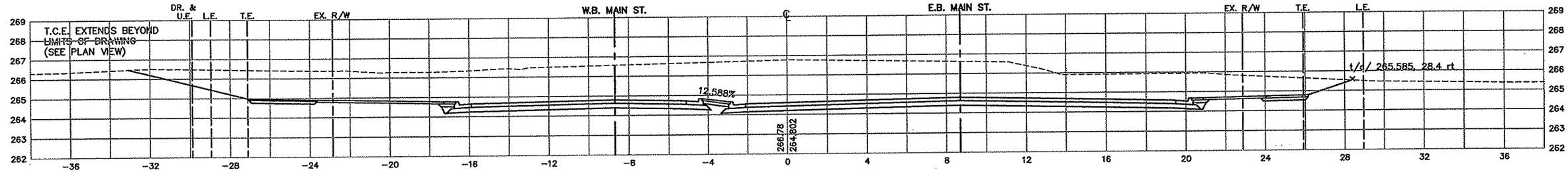
2+860



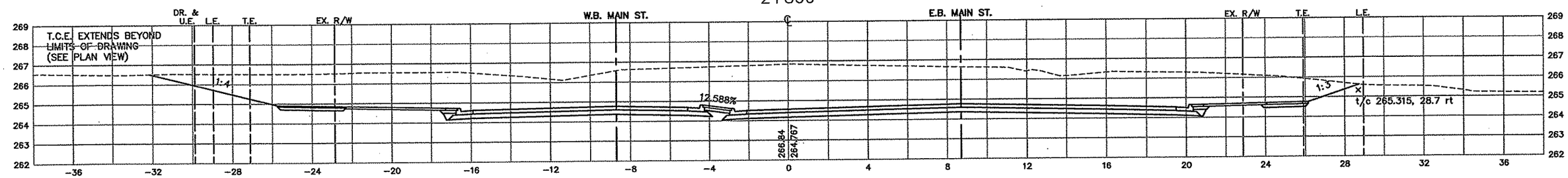
2+840



2+820



2+800



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT
DR. & U.E.	DRAINAGE AND UTILITY EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-11
DATE: NOVEMBER 5, 1999

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BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+800.000 TO STATION 2+860.000

CITY PROJECT 98-20

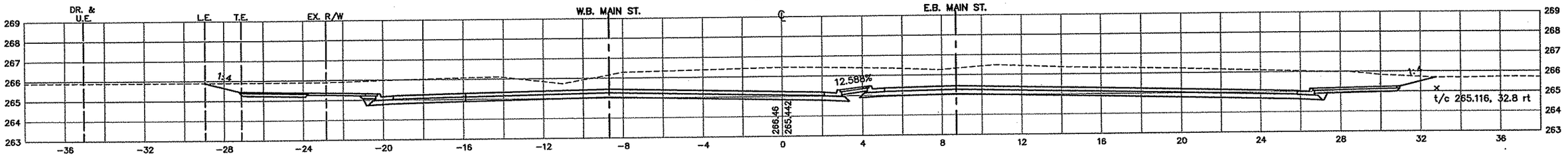
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 430 / 539

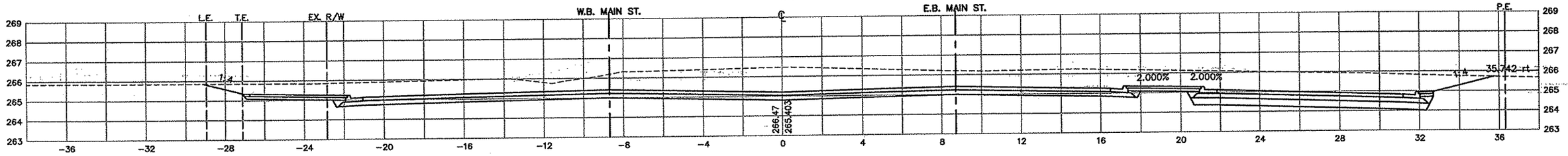
PLOT DATE: Jan 03, 2000 11:28am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs-11.dwg

ANG DRAWINGS
:4TH-XS

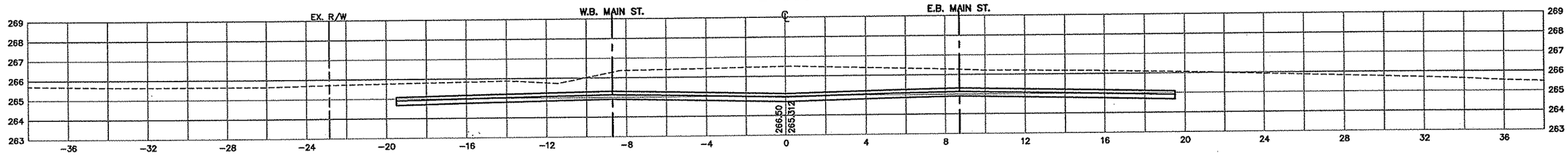
2+920



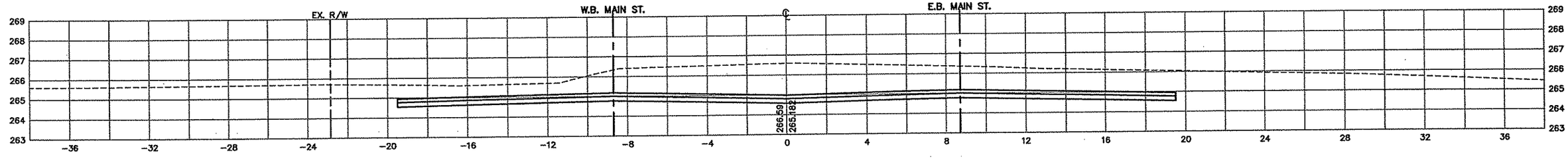
2+914



2+900



2+880



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT
DR. & U.E.	DRAINAGE AND UTILITY EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-12
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)

CROSS SECTIONS
STATION 2+880.000 TO STATION 2+920.000

CITY PROJECT 98-20

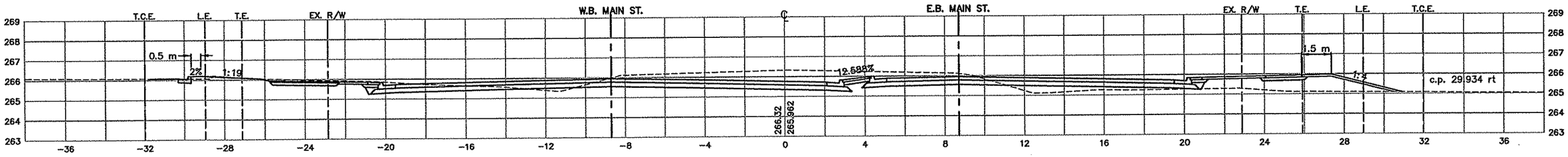
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 431 / 539

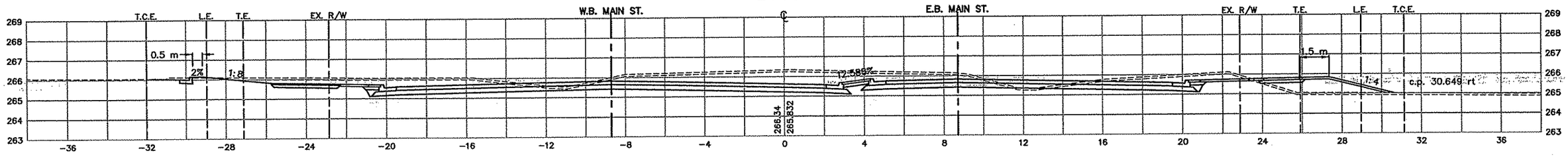
PLOT DATE: Jan 03, 2000 11:28am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs-12.dwg

XREF DRAWINGS
APBOX
42-WXS

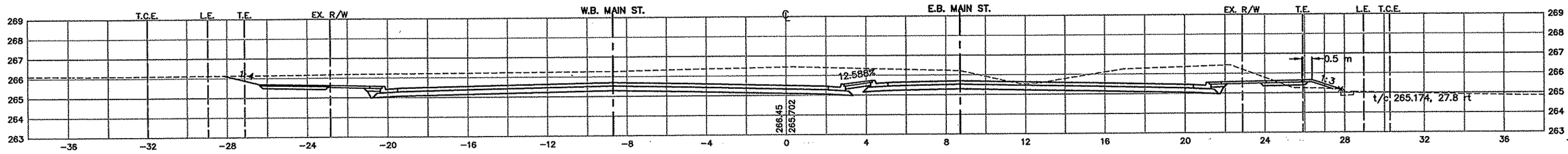
3+000



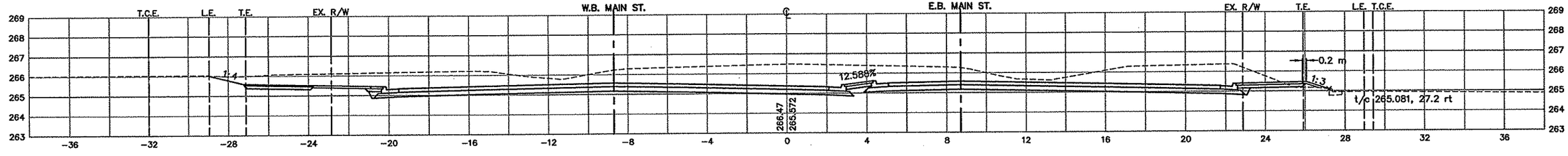
2+980



2+960



2+940



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	MOD. REQ. #36: MODIFIED CROSS SECTIONS 2+940-3+000
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-13
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 2+940.000 TO STATION 3+000.000

CITY PROJECT 98-20

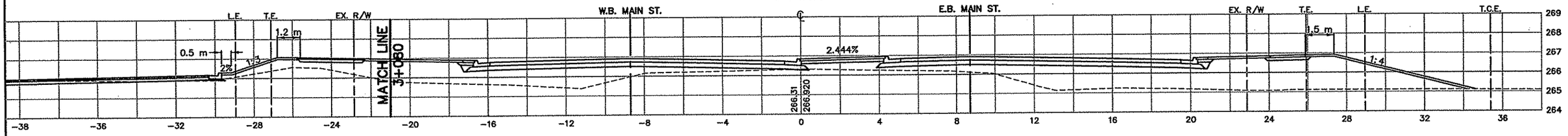
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 432 / 539

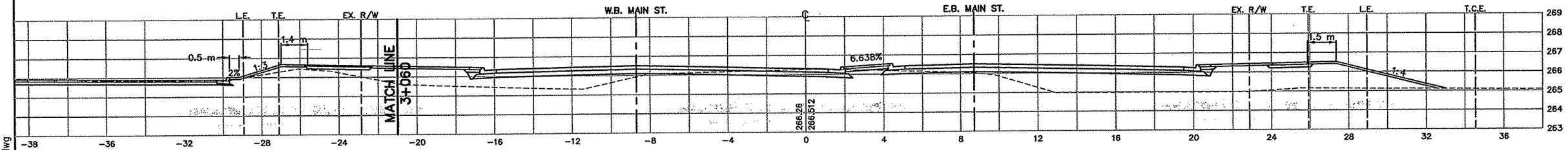
PLOT DATE: Jun 26, 2000 3:08pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs-13.dwg

APBOX
42-WXS

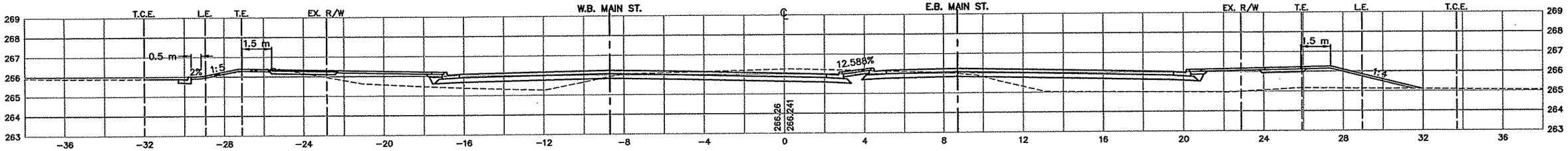
3+080



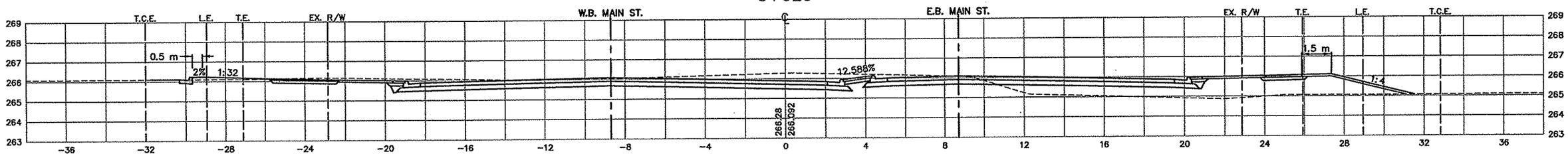
3+060



3+040



3+020



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	MOD. REQ.#36; MODIFIED CROSS SECTIONS 3+060-3+080
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: 242XS-14
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 3+020.000 TO STATION 3+080.000

CITY PROJECT 98-20

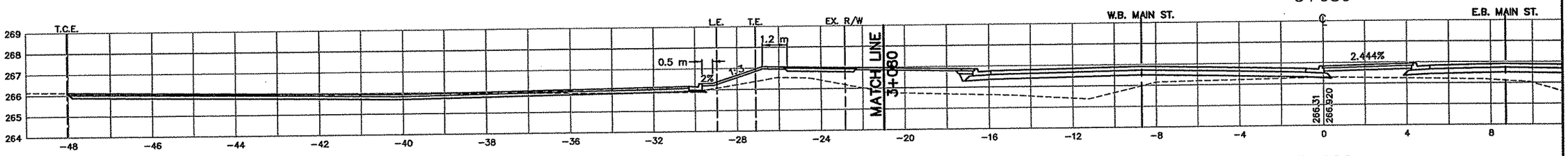
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 433 / 539

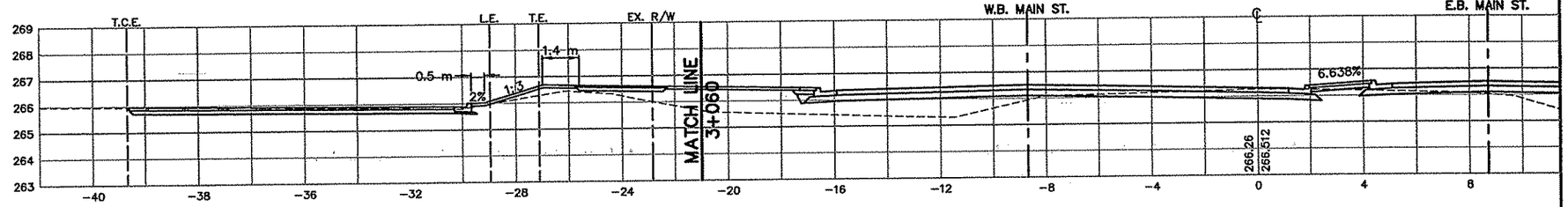
PLOT DATE: Jun 28, 2000 3:07pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs-14.dwg

XRD DRAWINGS
\PBOX
12-WXS

3+080



3+060



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	NEW SHT., MOD. REQ. #36; MODIFIED CROSS SECTION 3+060 - 3+080
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: 242XS14A
DATE: JUNE 19, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 3+060.000 TO STATION 3+080.000

CITY PROJECT 98-20

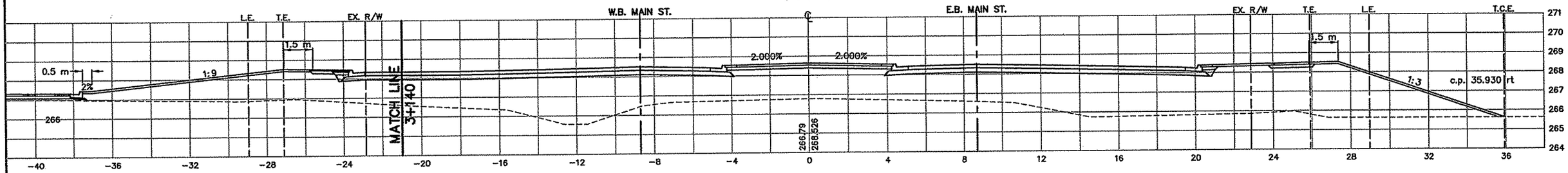
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 433A / 539

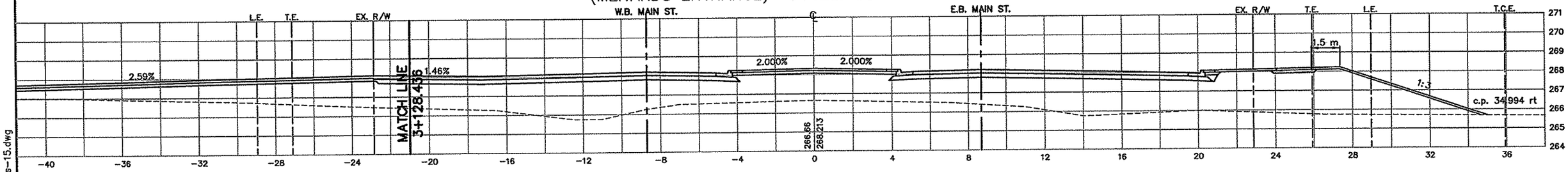
PLOT DATE: Jun 28, 2000 3:08pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs14A.dwg

4TH-XS

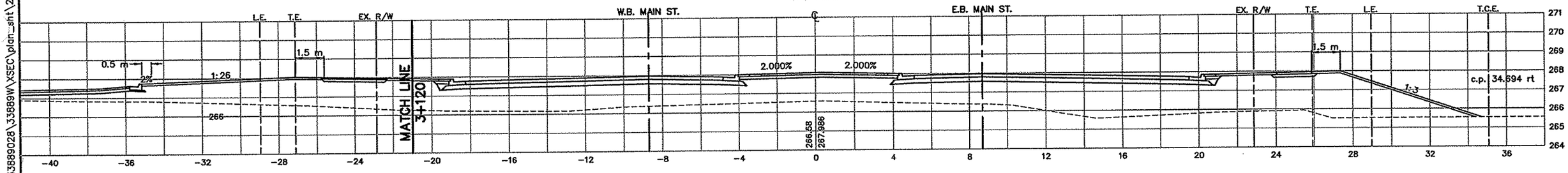
3+140



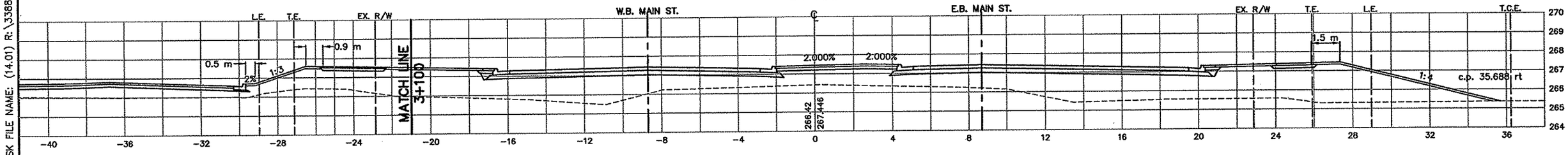
(MENARDS ENTRANCE) 3+128.436



3+120



3+100



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	MOD. REQ. #36; MODIFIED CROSS SECTIONS 3+100-3+140
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: 242XS-15
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DC&M GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 3+100.000 TO STATION 3+160.000

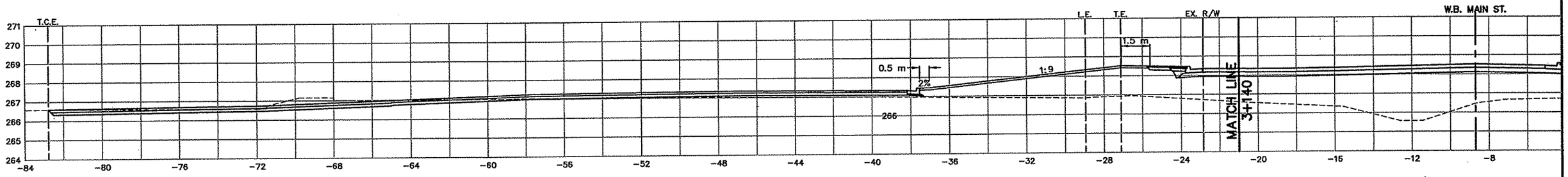
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

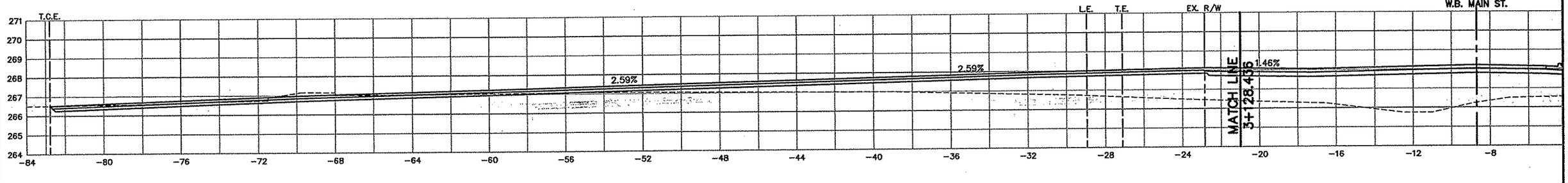
SHEET NO. 434 / 539

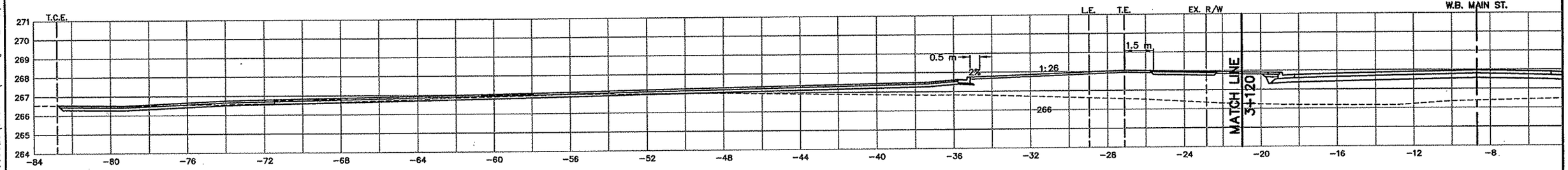
PLOT DATE: Jun 28, 2000 3:09pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs-15.dwg

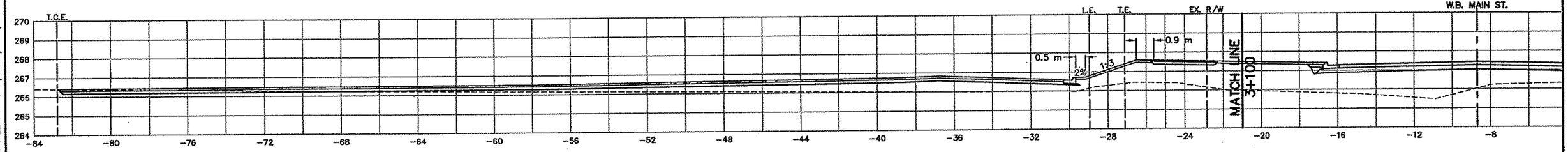
APBOX
42-WXS



(MENARDS ENTRA







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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

15A OF 16

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	NEW SHT., MOD. REQ. #36; MODIFIED CROSS SECTIONS 3+100 - 3+140
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS15a
DATE: JUNE 19, 2000

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 3+100.000 TO STATION 3+160.000

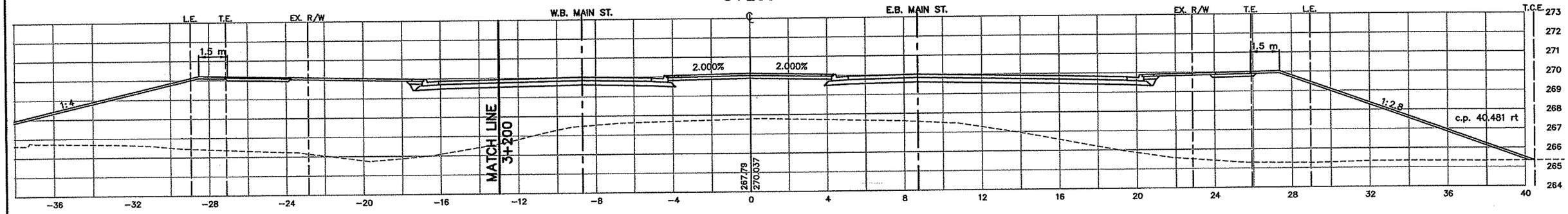
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

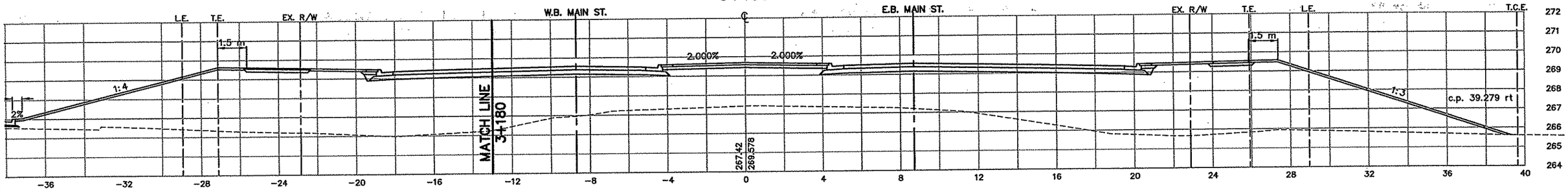
SHEET NO. 434A / 539

PLOT DATE: Jun 26, 2000 3:10pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs15a.dwg

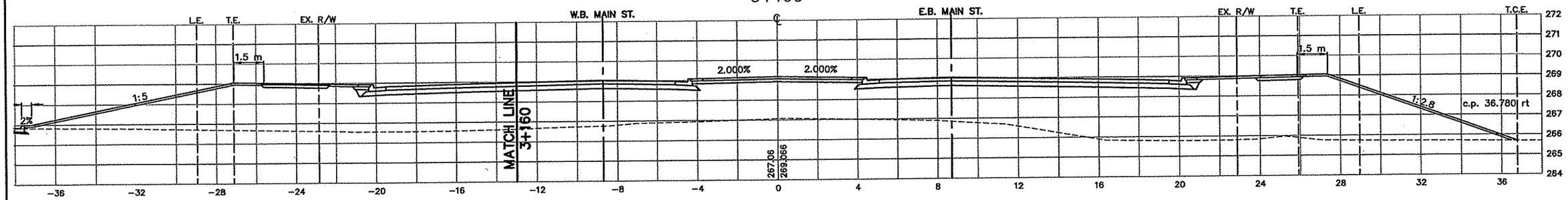
3+200



3+180



3+160



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	MOD. REQ. #36; MODIFIED CROSS SECTIONS 3+160-3+200
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS-16
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
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DATE:_____ MINN. REG. NO._____

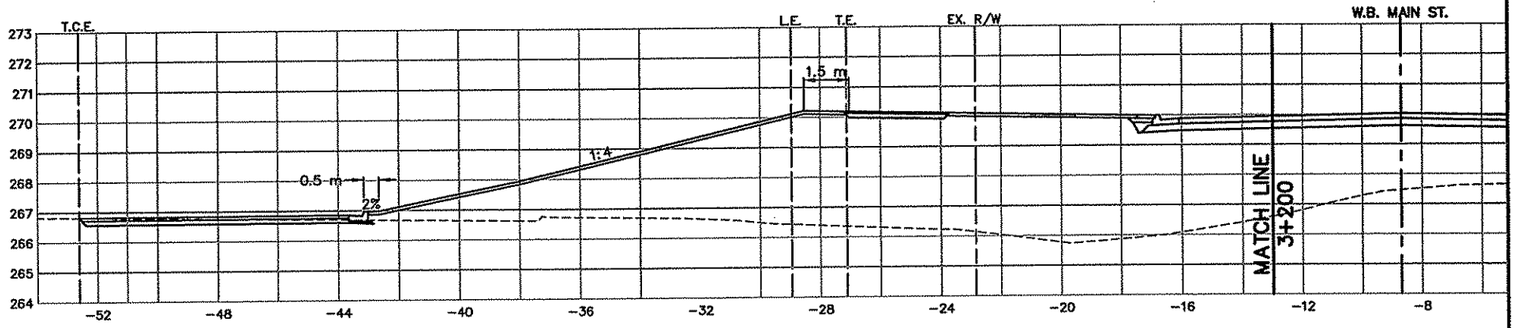
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 3+180.000 TO STATION 3+200.000

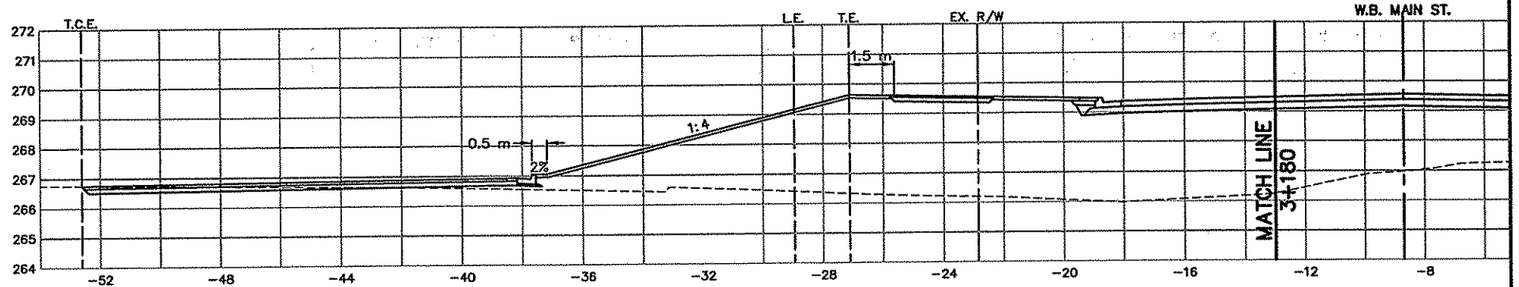
CITY PROJECT 98-20

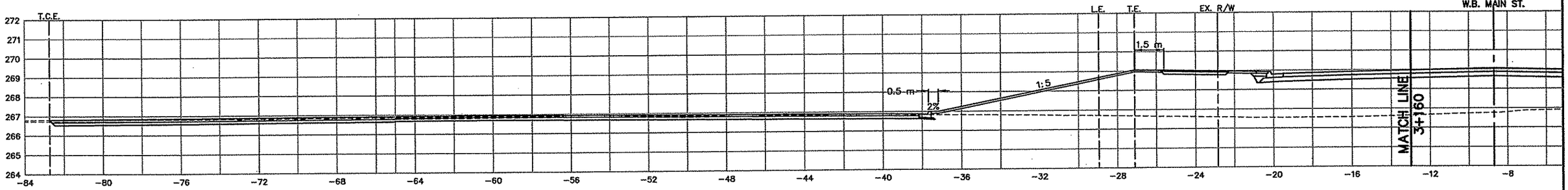
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 435 / 539

PLOT DATE: Jun 2x, ...000 3:10pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plo...\242xs-16.dwg







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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

16A OF 16

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	NEW SHT., MOD. REQ. #36; MODIFIED CROSS SECTIONS 3+160 – 3+200
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 242XS16A
DATE: JUNE 19, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
CROSS SECTIONS
STATION 3+180.000 TO STATION 3+200.000

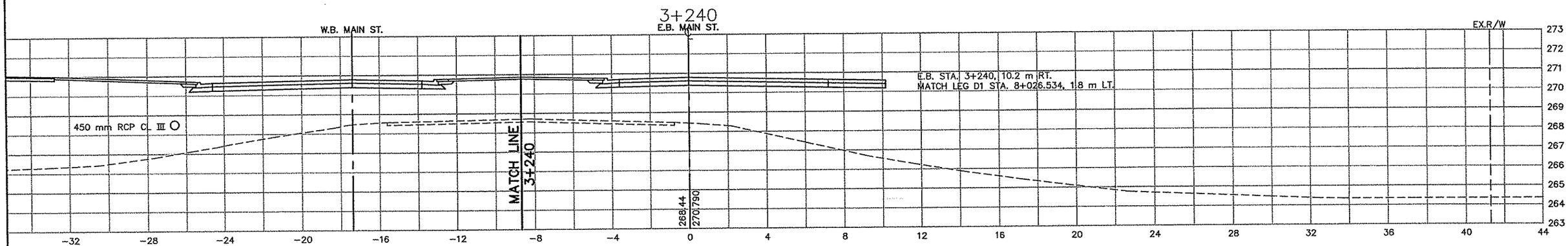
CITY PROJECT 98-20

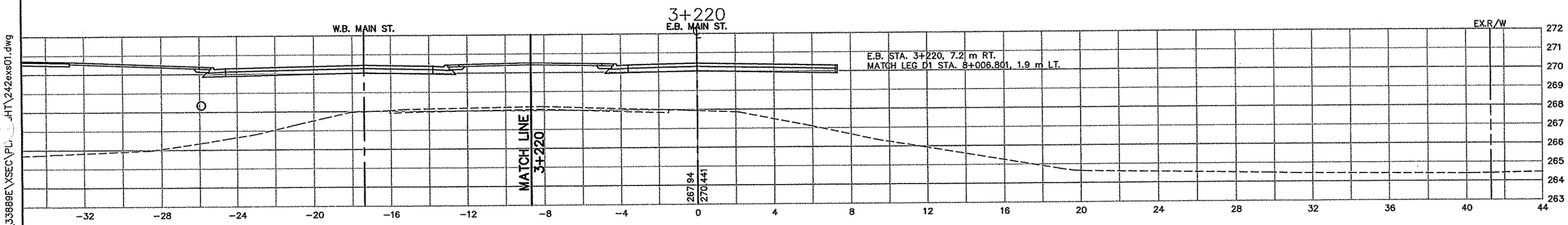
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

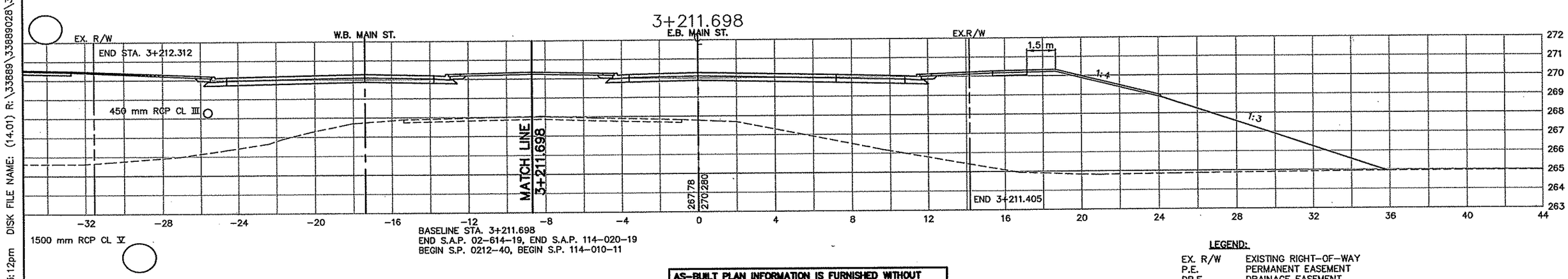
SHEET NO. 435A / 539

PLOT DATE: Jun 28, 2000 3:11pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs16A.dwg

PLOT DATE: Jun 2_ ,00 3:12pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLOT\242exs01.dwg







BASELINE STA. 3+211.698
END S.A.P. 02–614–19, END S.A.P. 114–020–19
BEGIN S.P. 0212–40, BEGIN S.P. 114–010–11

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT–OF–WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	MOD. REQ. #36; MODIFIED CROSS SECTIONS 3+211.698 – 3+240
2	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS01
DATE: NOVEMBER 5, 1999

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

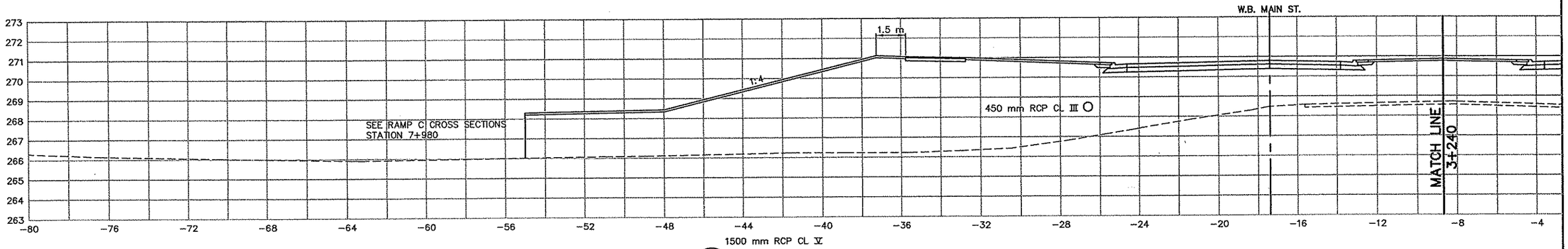
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+211.698 TO STATION 3+240.000

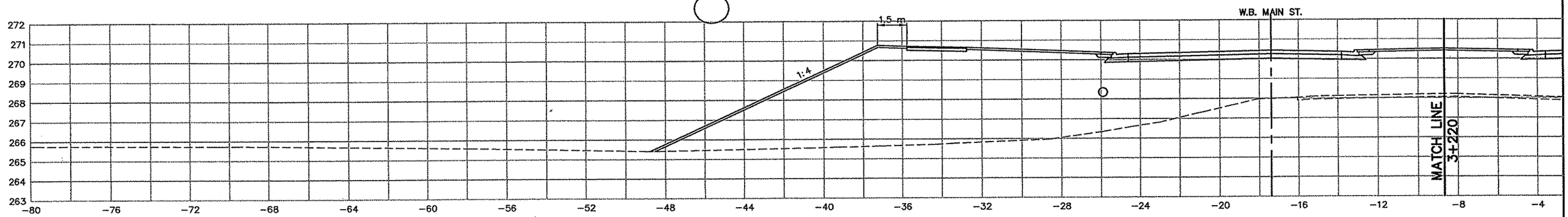
CITY PROJECT 98–20

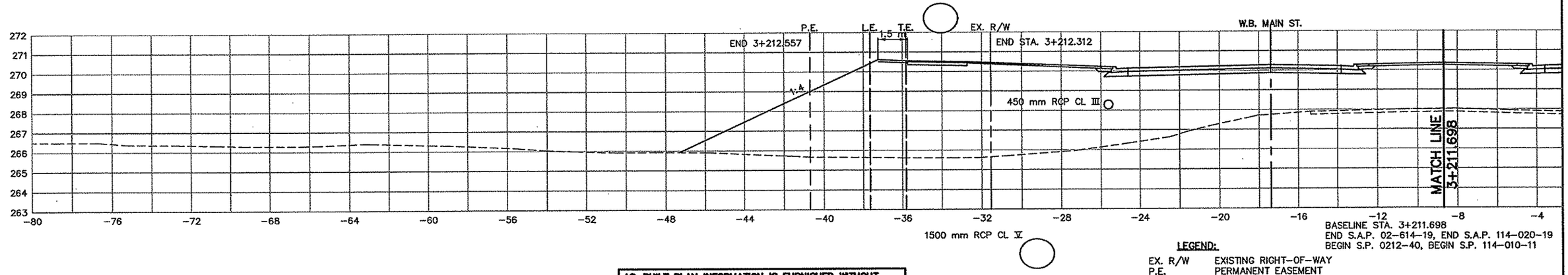
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 436 / 539

XSLEGD
SAPBOX
242E-XS







BASELINE STA. 3+211.698
END S.A.P. 02-614-19, END S.A.P. 114-020-19
BEGIN S.P. 0212-40, BEGIN S.P. 114-010-11

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	MOD. REQ.#36; MODIFIED CROSS SECTIONS 3+211.698 – 3+240
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS02
DATE: NOVEMBER 5, 1999

minnesota metric
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DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+211.698 TO STATION 3+240.000

CITY PROJECT 98-20

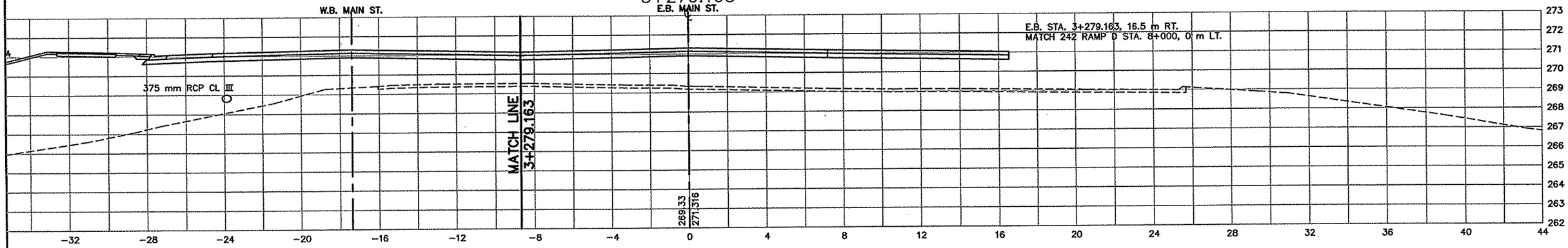
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 437 / 539

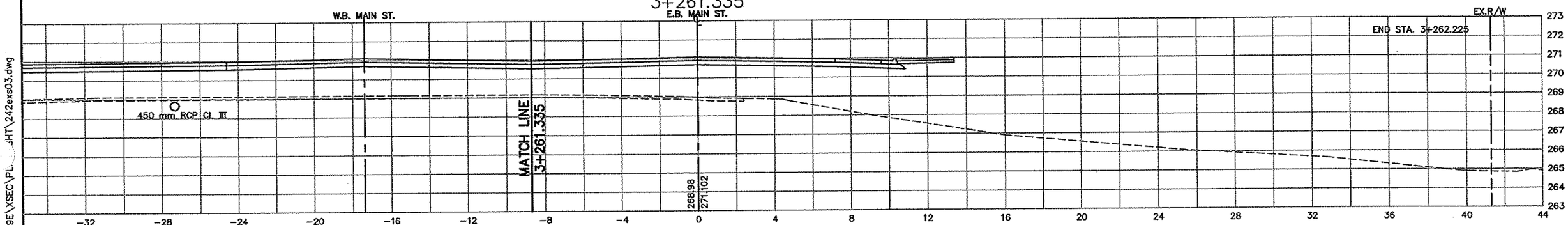
PLOT DATE: Aug 0_ 004 1:28pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL_ SHT\242exs02.dwg

(SLEGD
APBOX
242E-XS

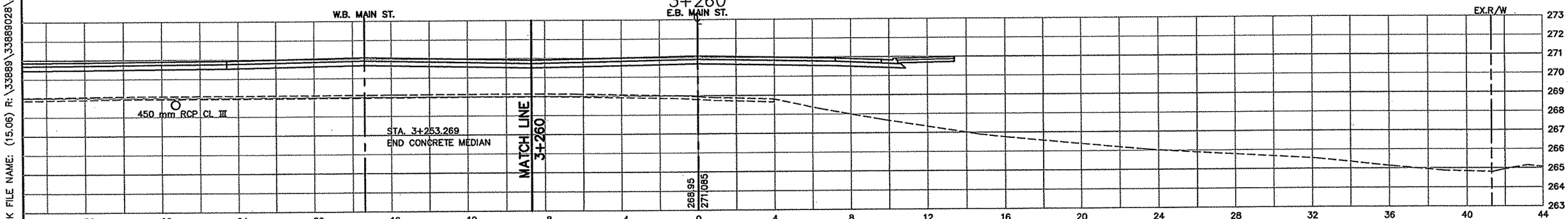
3+279.163



3+261.335



3+260



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS03
DATE: NOVEMBER 5, 1999

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

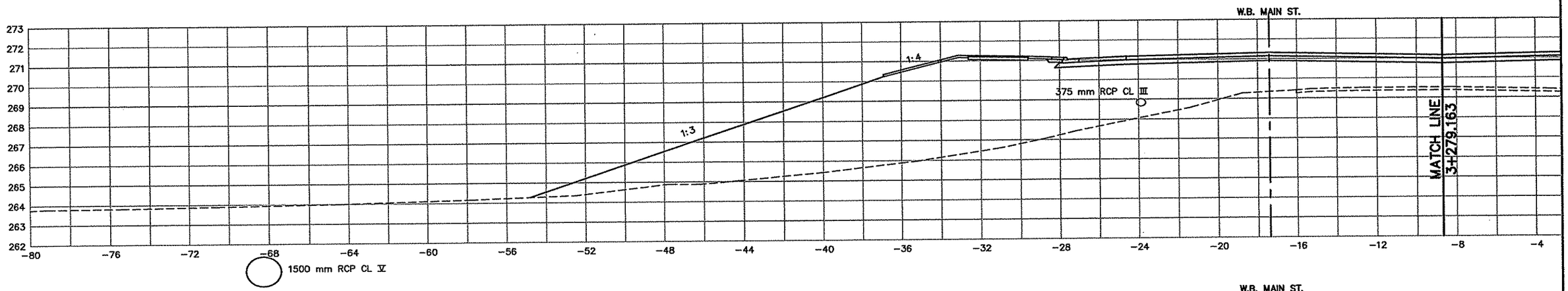
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+260.000 TO STATION 3+279.163

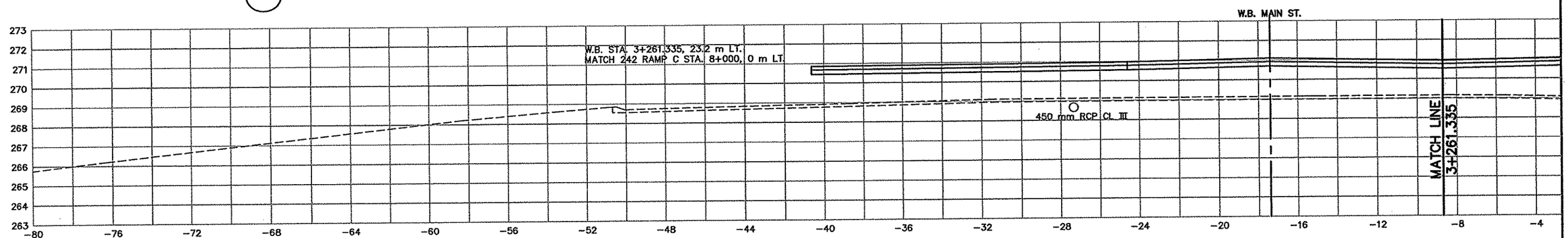
CITY PROJECT 98-20

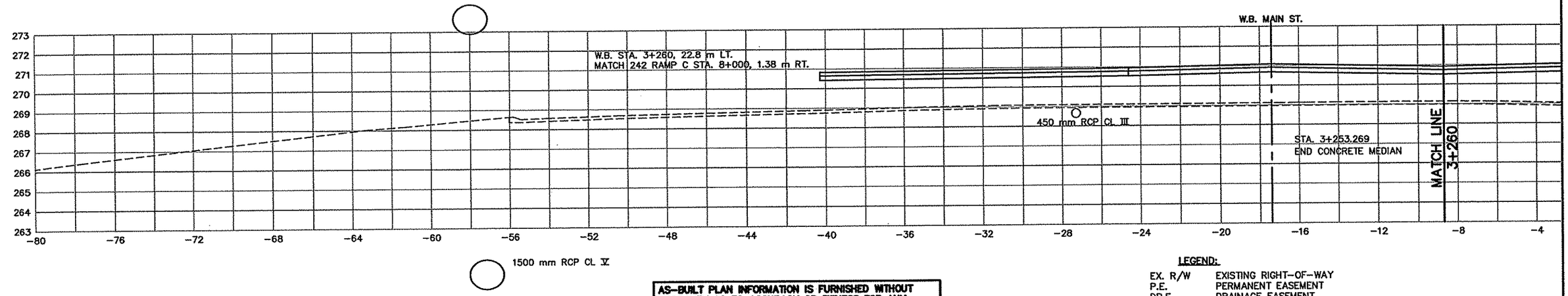
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 438 / 539

PLOT DATE: Aug 6, 2004 1:28pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL...SHT\242exs03.dwg







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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS04
DATE: NOVEMBER 5, 1999

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+260.000 TO STATION 3+279.163

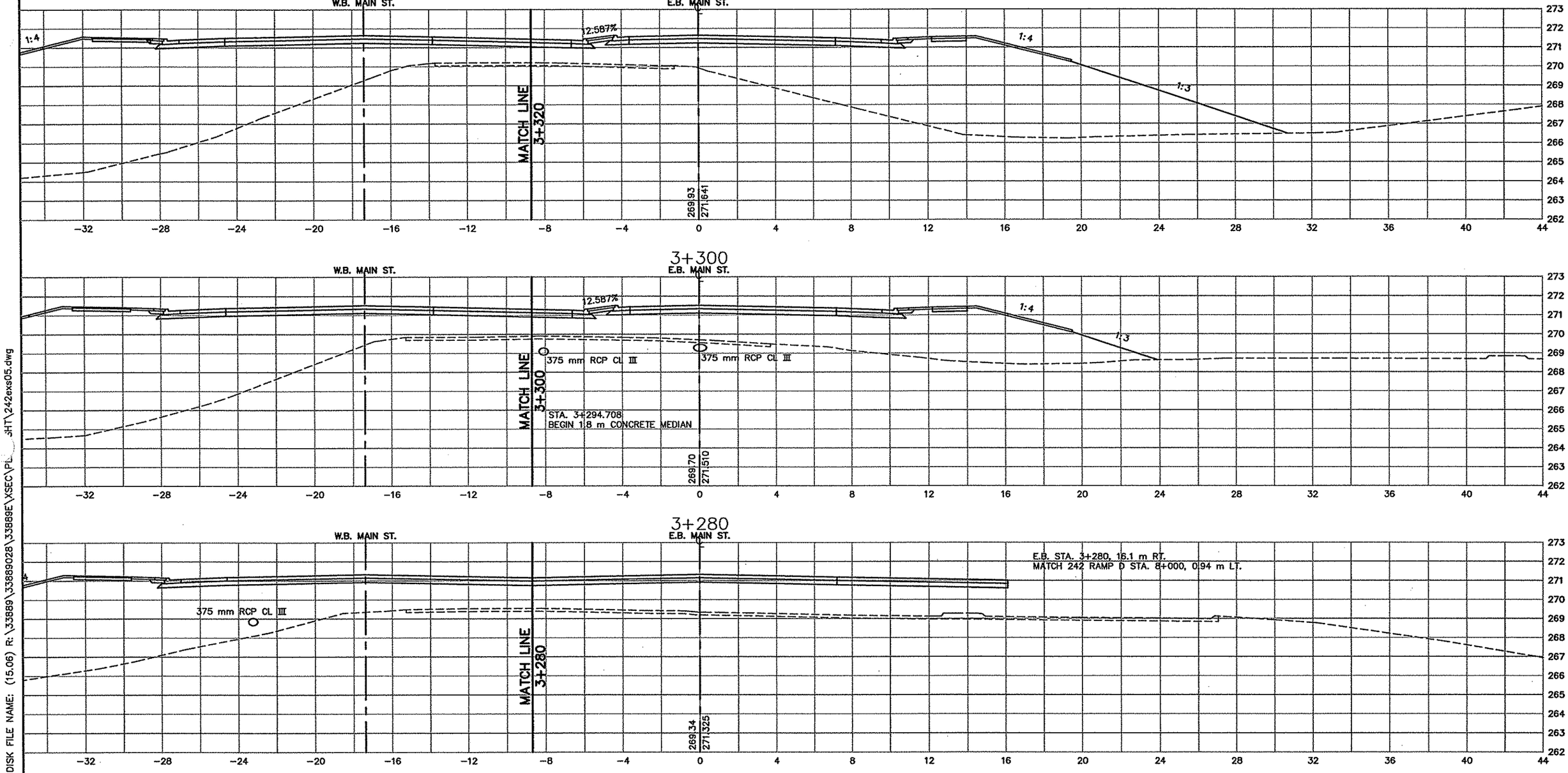
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 439 / 539

PLOT DATE: Aug 0_ _004 1:34pm DISK FILE NAME: (15.06) R:\3388\3388928\3388E\XSEC\PL...SHT\242exs04.dwg

XSLEGD
SAPBOX
242E-XS



PLOT DATE: Aug 6, 2004 1:34pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PLOT\242exs05.dwg

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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS05
DATE: NOVEMBER 5, 1999

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Kevin P Kielb

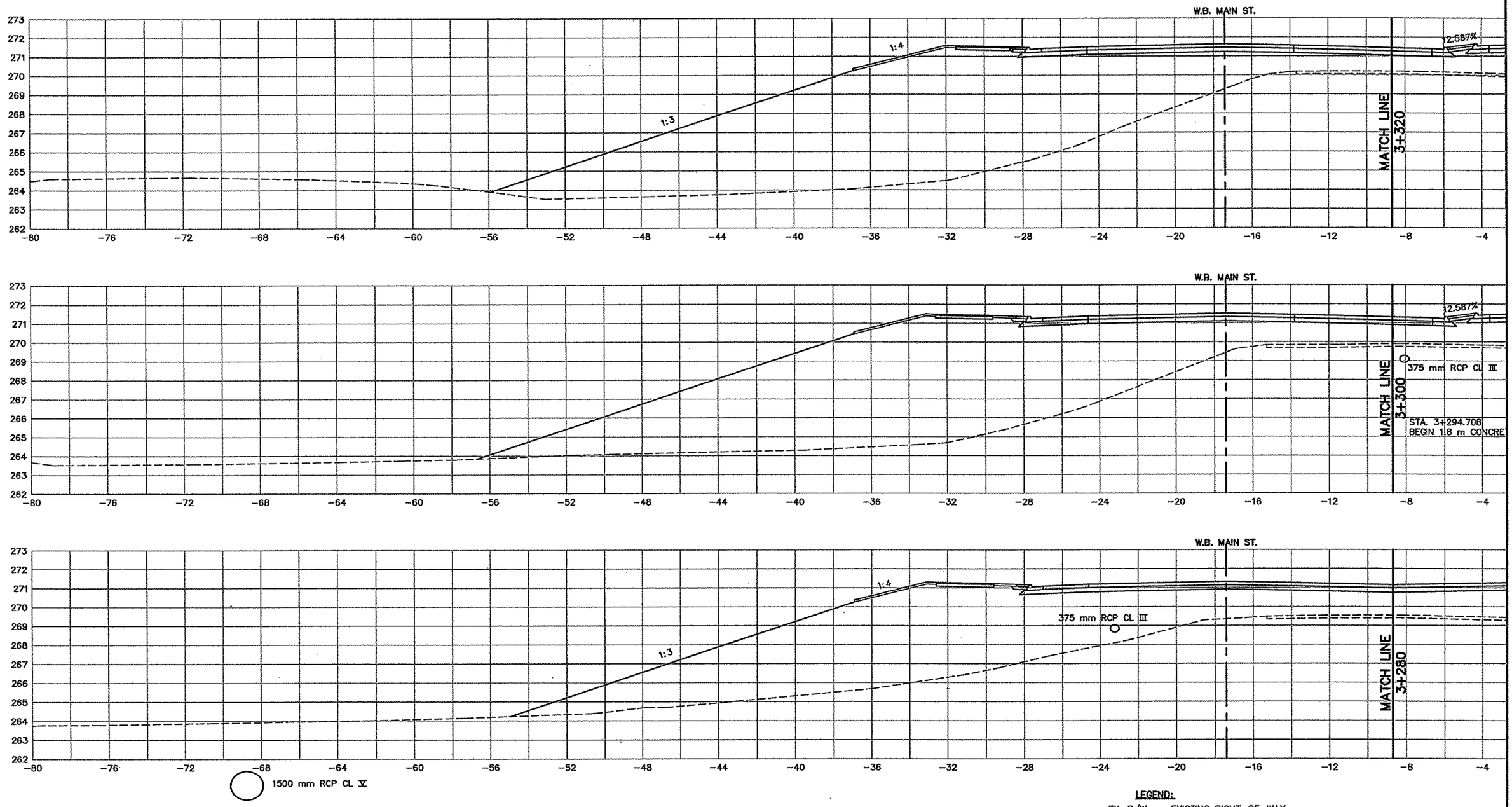
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+280.000 TO STATION 3+320.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 440 / 539



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS06
DATE: NOVEMBER 5, 1999

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MINNEAPOLIS, MN 55415
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+280.000 TO STATION 3+320.000

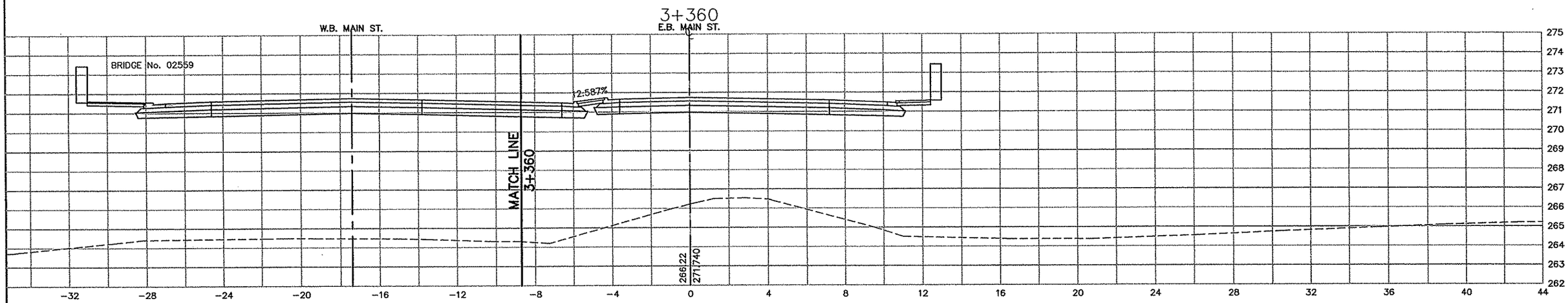
CITY PROJECT 98-20

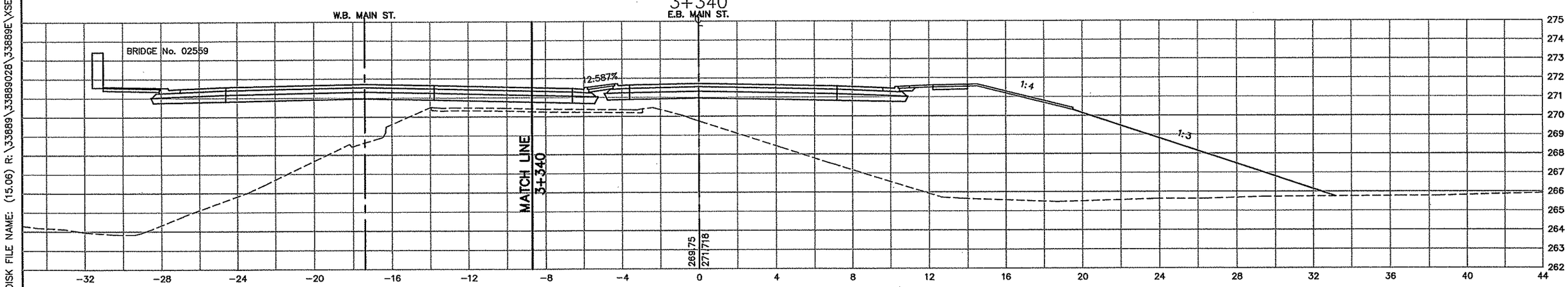
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 441 / 539

PLOT DATE: Aug [illegible].004 1:34pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL[illegible]HT\242exs06.dwg

XSLEGD
SAPBOX
242E-XS





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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS07
DATE: NOVEMBER 5, 1999

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BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+340.000 TO STATION 3+360.000

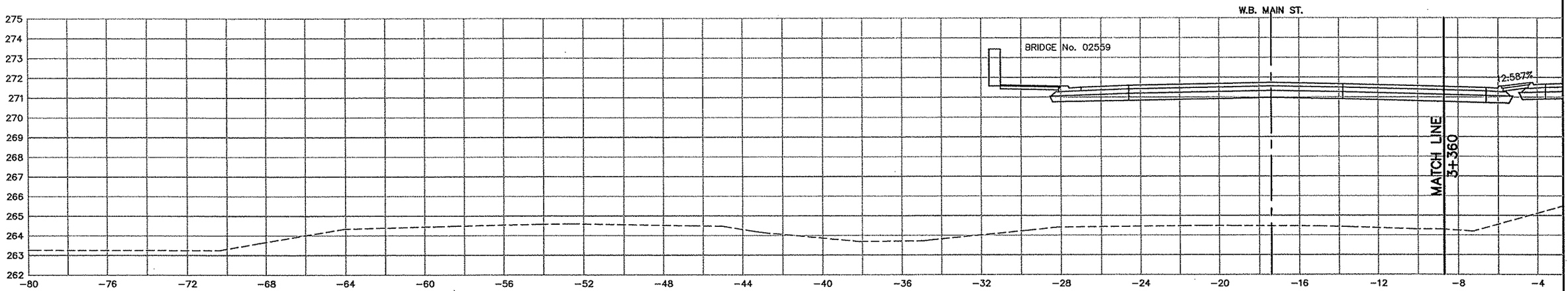
CITY PROJECT 98-20

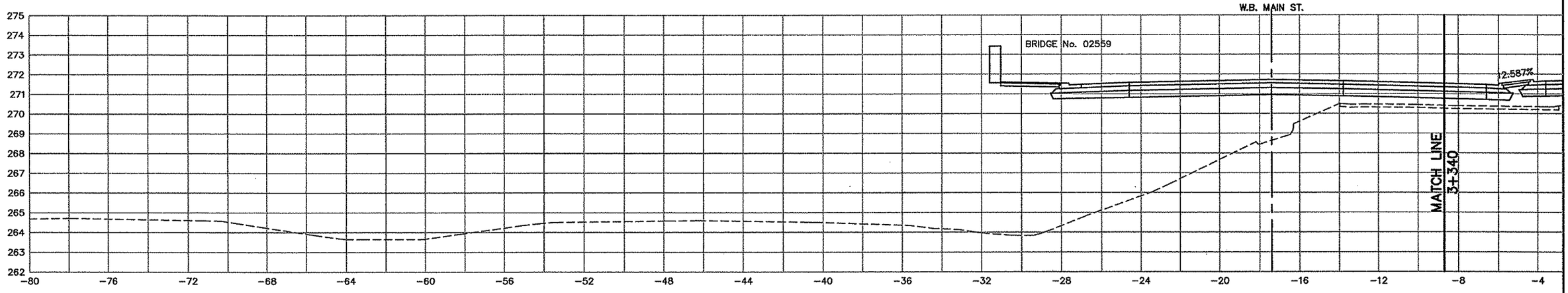
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 442 / 539

PLOT DATE: Aug 02, 2004 1:35pm DISK FILE NAME: (15.06) R:\33689\33889028\33889E\XSEC\PLAN-SHT\242exs07.dwg

XSLEGD
SAPBOX
242E-XS





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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+340.000 TO STATION 3+360.000

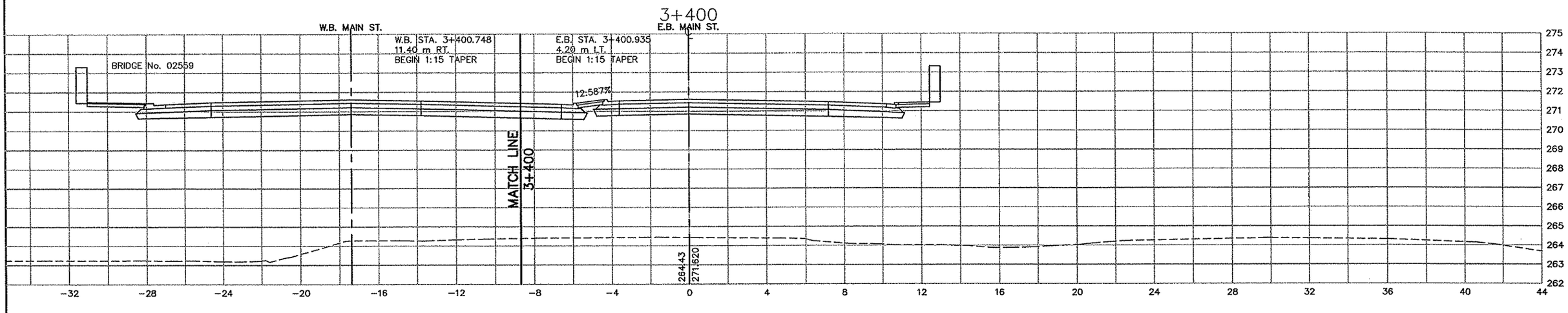
CITY PROJECT 98-20

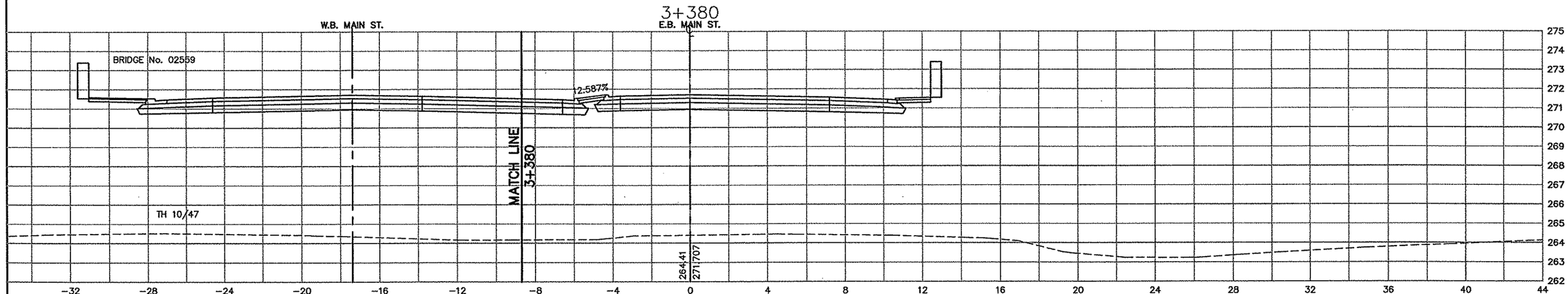
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 443 / 539

PLOT DATE: Aug 02, 2004 1:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs08.dwg

XSLEGD
SAPBOX
242E-XS





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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS09
DATE: NOVEMBER 5, 1999

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+380.000 TO STATION 3+400.000

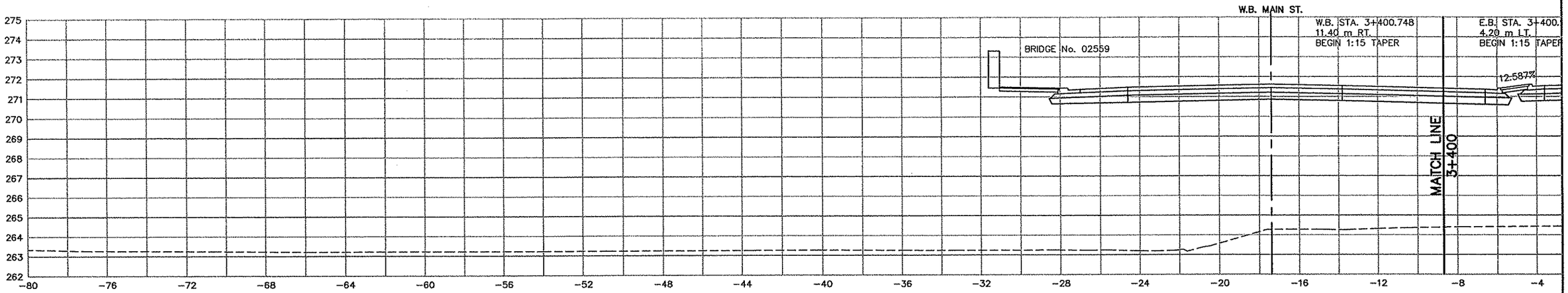
CITY PROJECT 98-20

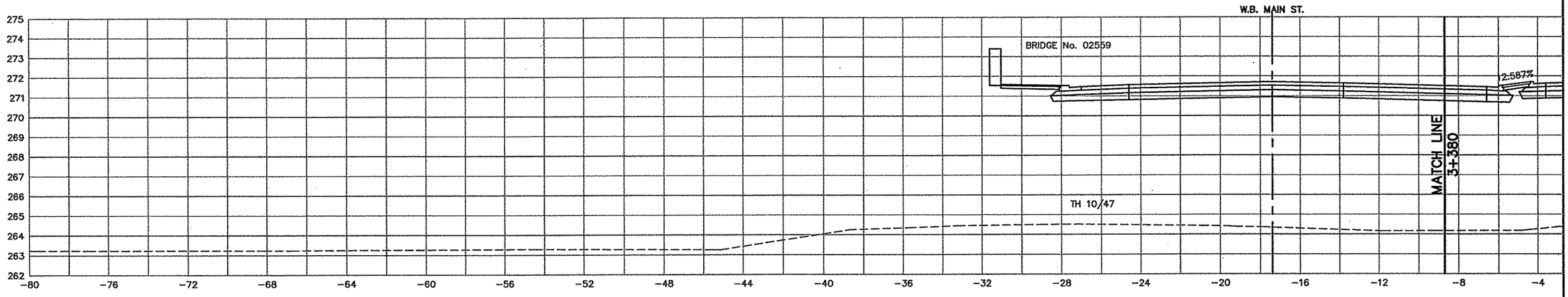
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 444 / 539

PLOT DATE: Aug 0..., 2004 1:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL...SHT\242exs09.dwg

XSLEGD
SAPBOX
242E-XS





AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS10
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+380.000 TO STATION 3+400.000

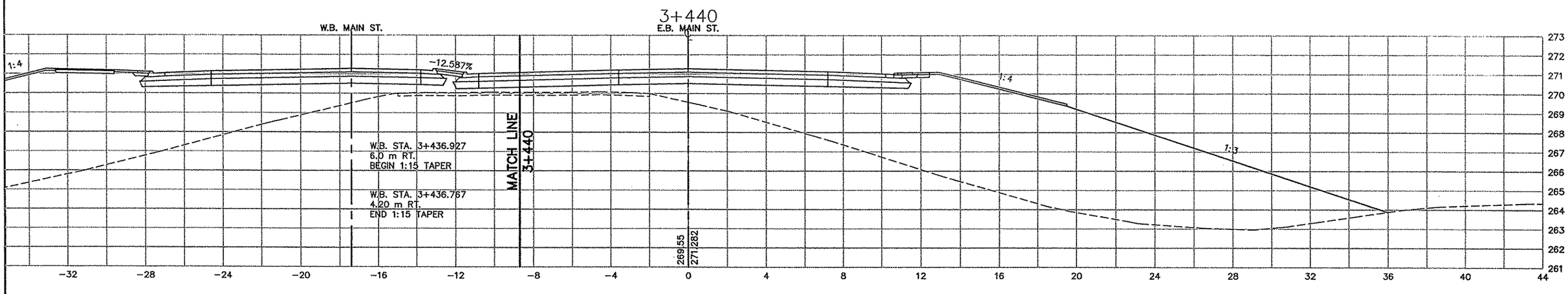
CITY PROJECT 98-20

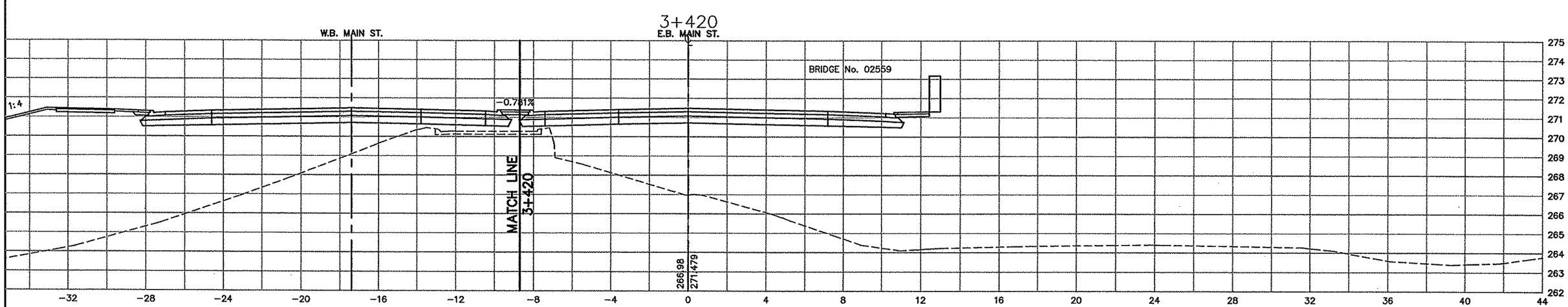
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 445 / 539

PLOT DATE: Aug 02, 2004 1:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PLA...-SHT\242exs10.dwg

XSLEGD
SAPBOX
242E-XS





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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS11
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+420.000 TO STATION 3+440.000

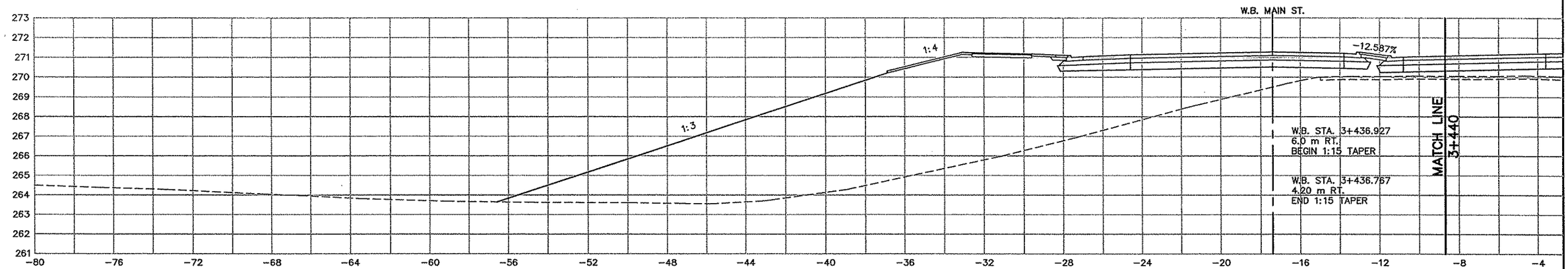
CITY PROJECT 98-20

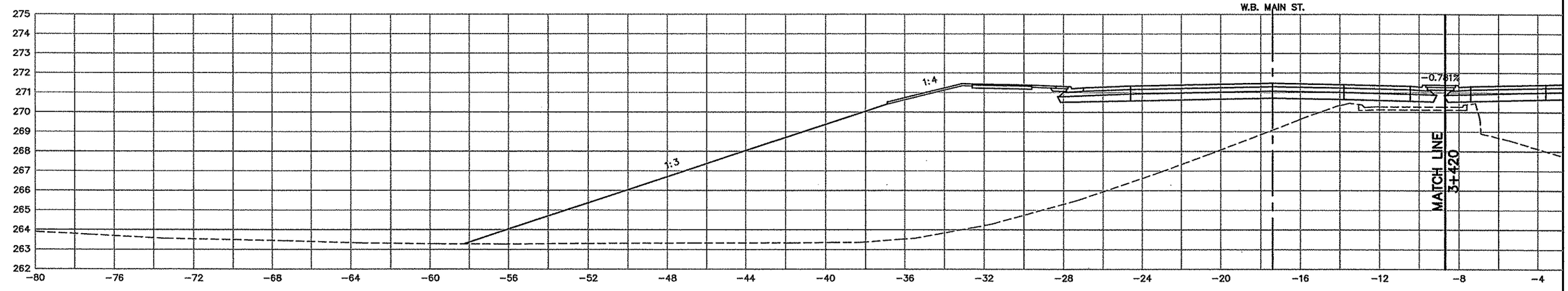
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 446 / 539

PLOT DATE: Aug ... 2004 1:36pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL...SHT\242exs11.dwg

XSLEGD
SAPBOX
242E—XS





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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

12 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS12
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+420.000 TO STATION 3+440.000

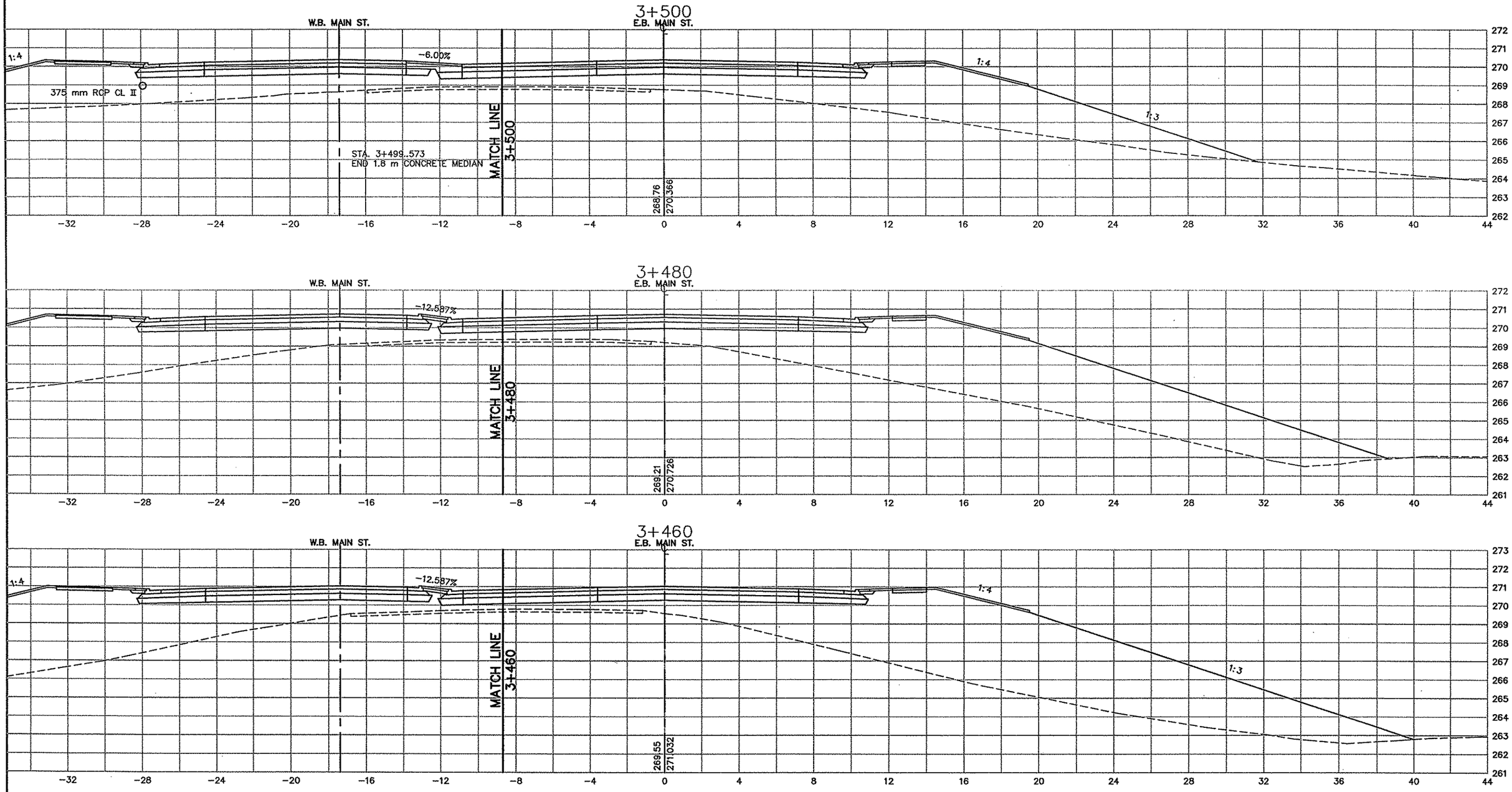
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 447 / 539

PLOT DATE: Aug [illegible] 2004 1:36pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL...SHT\242exs12.dwg

XSLEGD
SAPBOX
242E-XS



PLOT DATE: Aug [illegible] 2004 1:36pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL...SHT\242exs13.dwg

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

13 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS13
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 328.16

Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

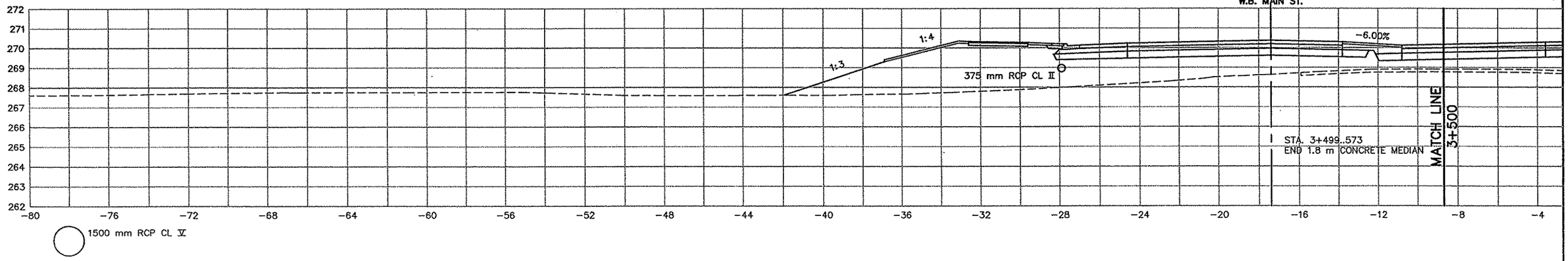
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+460.000 TO STATION 3+500.000

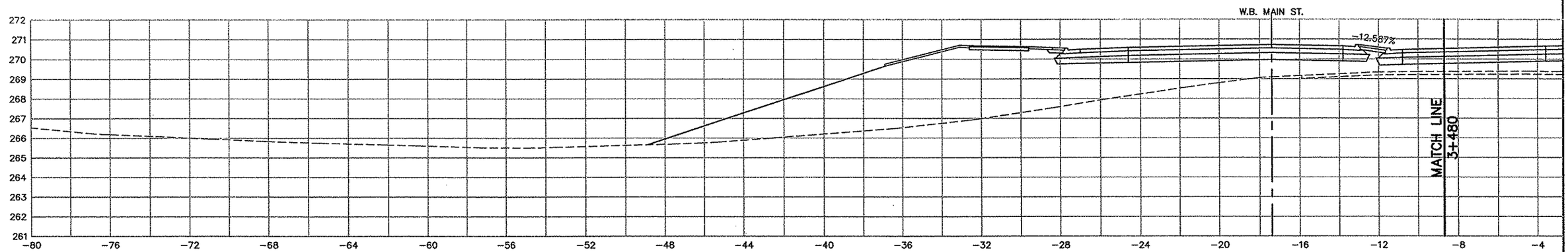
CITY PROJECT 98-20

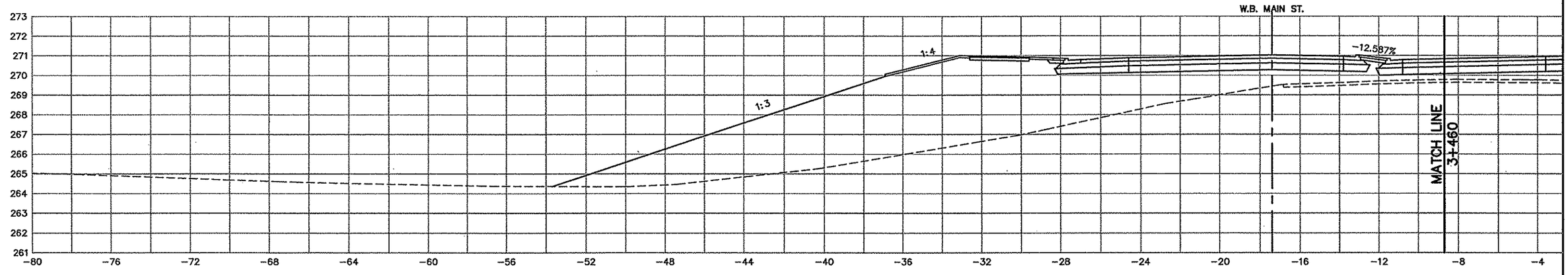
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 448 / 539

XSLEGD
SAPBOX
242E-XS







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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS14
DATE: NOVEMBER 5, 1999

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+460.000 TO STATION 3+500.000

CITY PROJECT 98-02

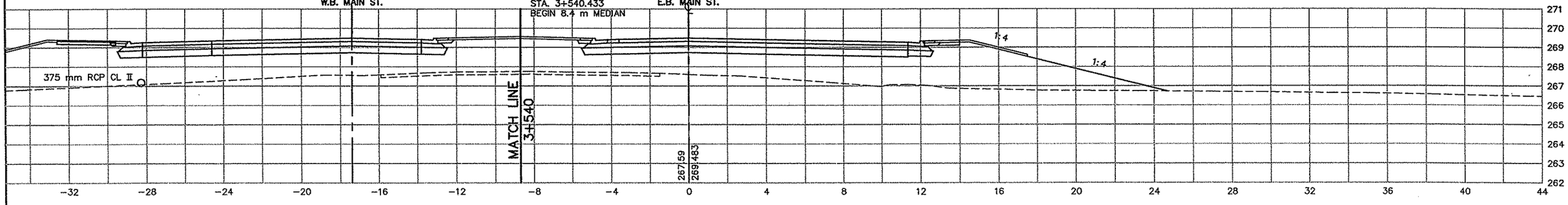
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 449 / 539

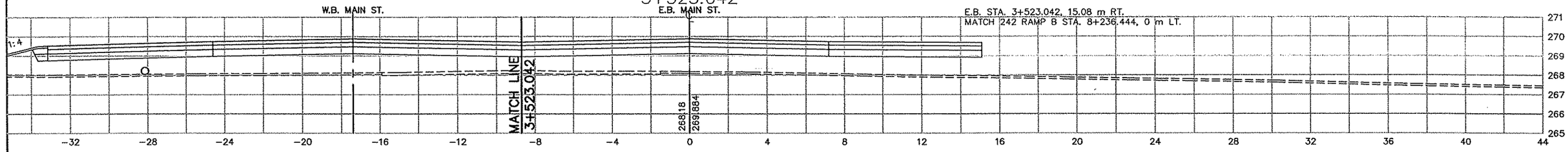
PLOT DATE: Aug 6, 2004 1:37pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL...SHT\242exs14.dwg

XSLEGD
SAPBOX
242E-XS

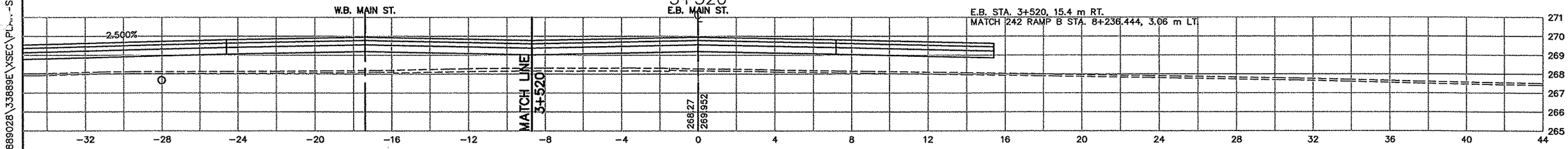
3+540



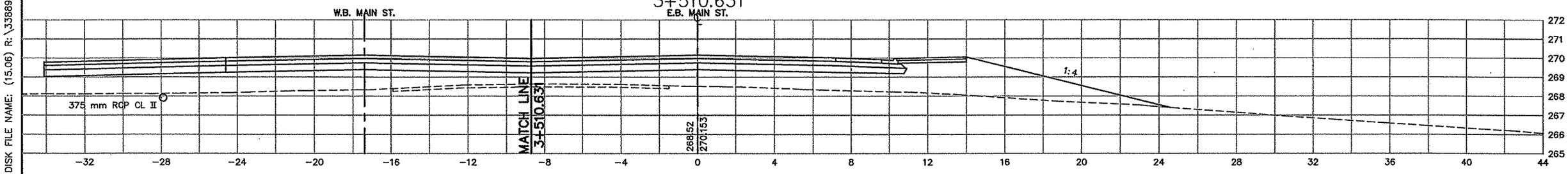
3+523.042



3+520



3+510.631



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS15
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+510.631 TO STATION 3+540.000

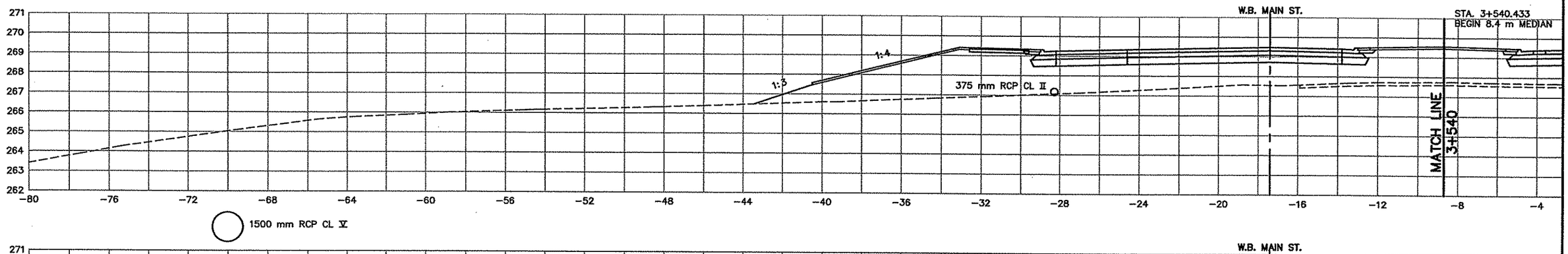
CITY PROJECT 98-20

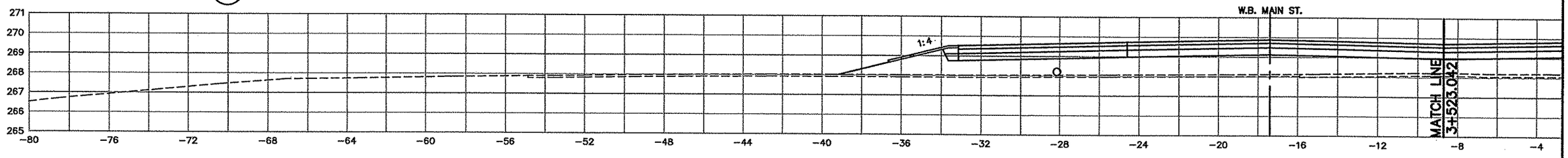
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

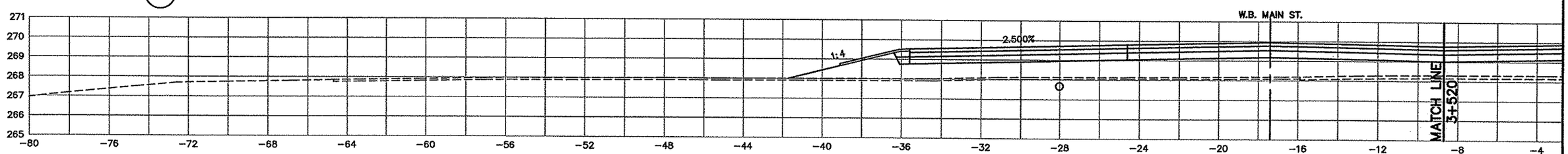
SHEET NO. 450 / 539

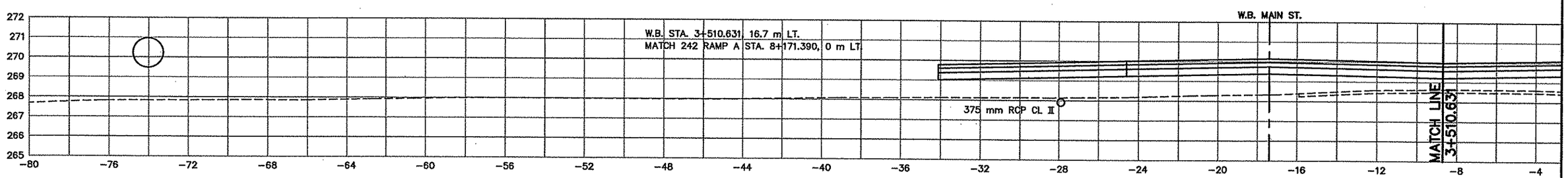
PLOT DATE: Aug 6, 2004 1:37pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs15.dwg

XSLEGD
SAPBOX
242E-XS









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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS16
DATE: NOVEMBER 5, 1999

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BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+510.631 TO STATION 3+540.000

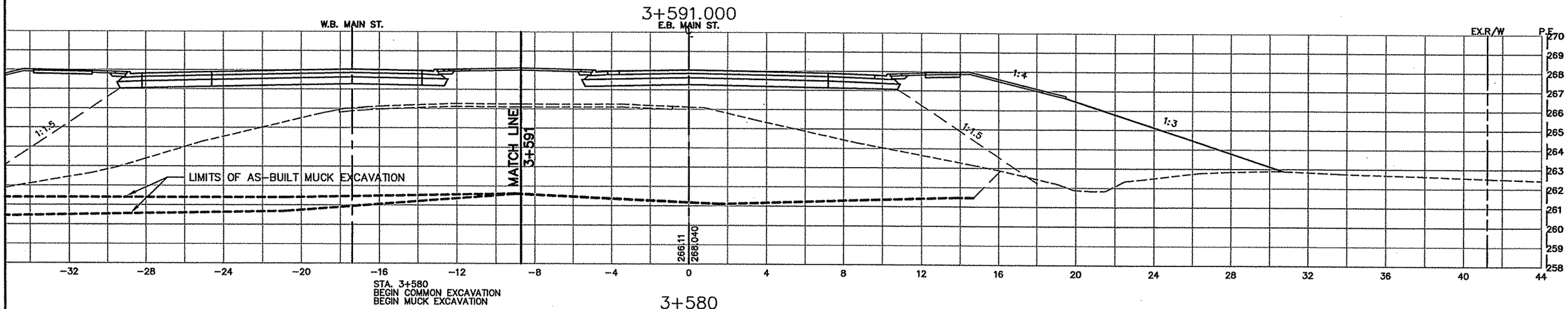
CITY PROJECT 98-20

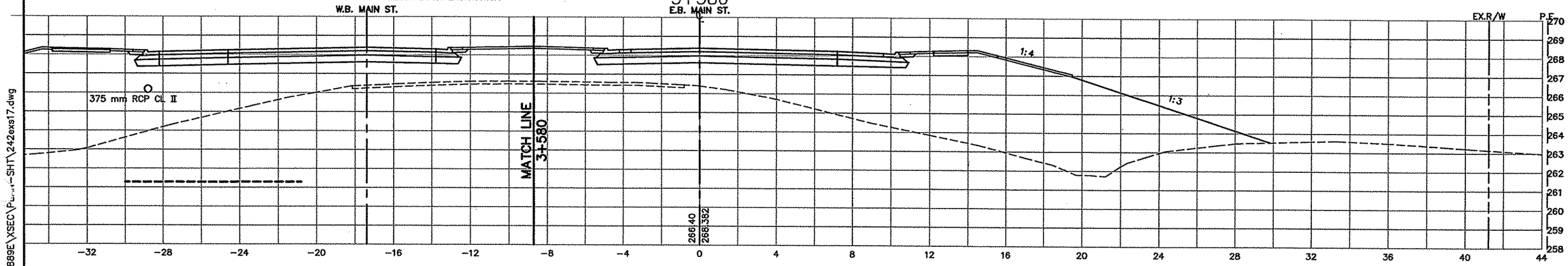
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

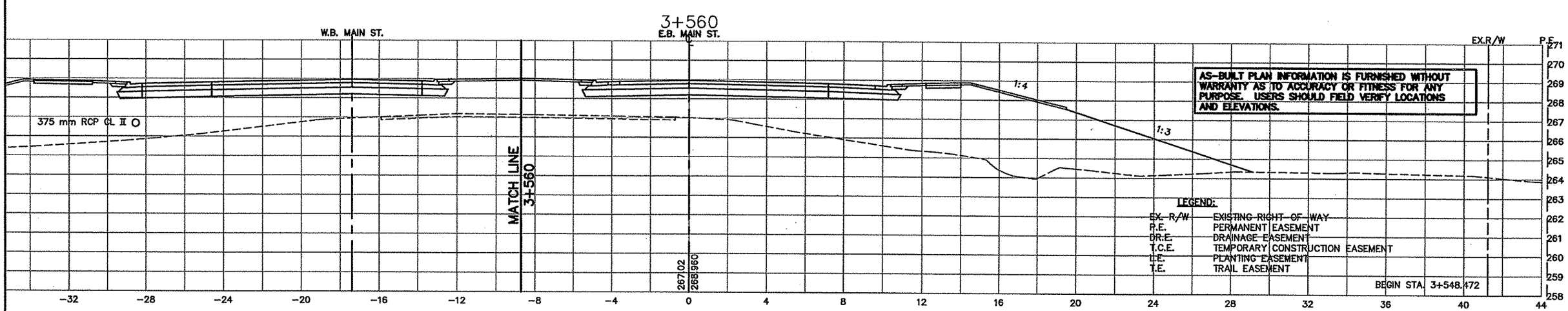
SHEET NO. 451 / 539

PLOT DATE: Jan ..., 2000 11:54am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN SHT\242exs16.dwg

XSLEGD
SAPBOX
242E-XS







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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

BEGIN STA. 3+548.472

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	8/17/00	ADDED CROSS SECTION STA. 3+591
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS17
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.15

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+560.000 TO STATION 3+591.000

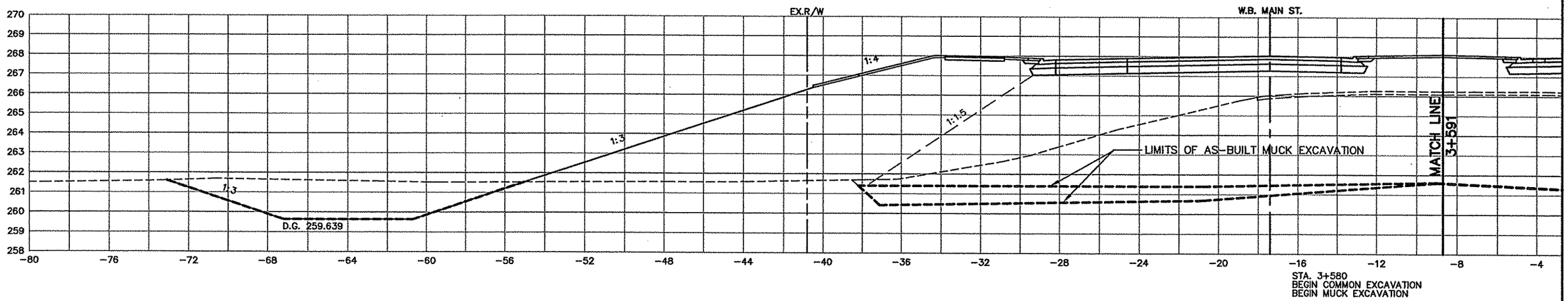
CITY PROJECT 98-20

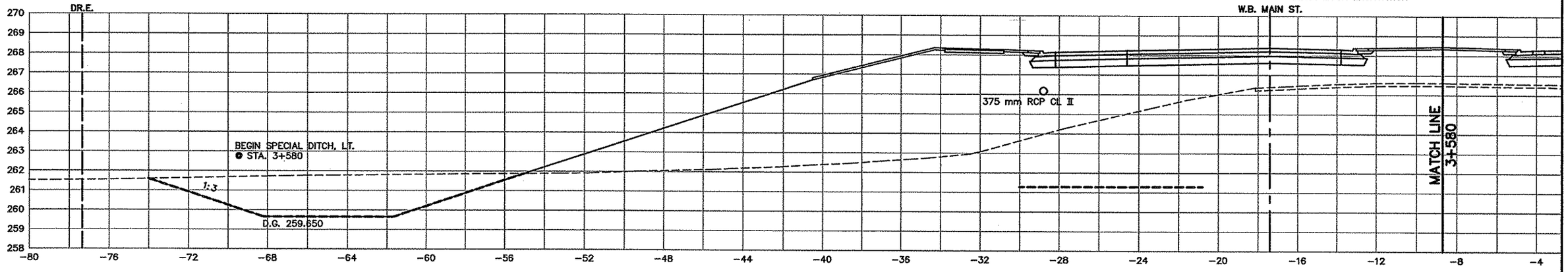
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

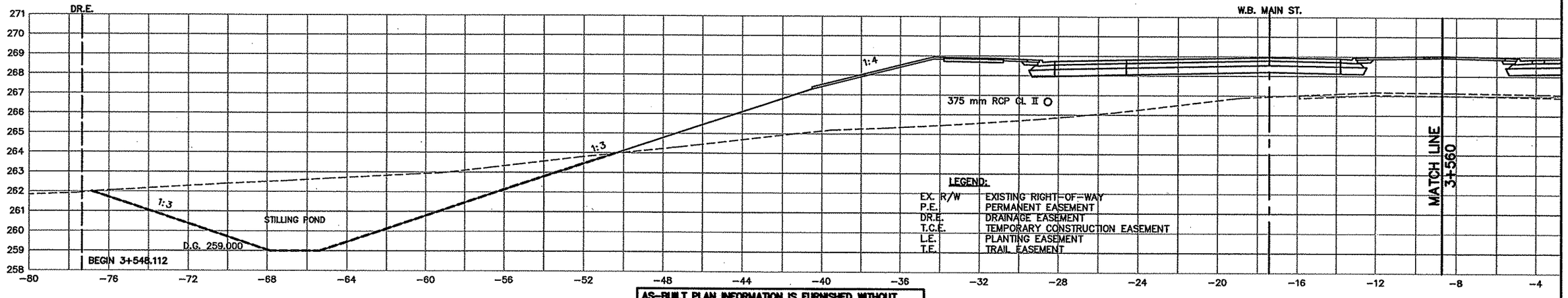
SHEET NO. 452 / 539

PLOT DATE: Aug ..., 2000 3:42pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL...1-SHT\242exs17.dwg

SAPBOX
XSLEGD
242E-XS







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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	8/17/00	ADDED CROSS SECTION STA. 3+591
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS18
DATE: NOVEMBER 5, 1999

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DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+560.000 TO STATION 3+600.000

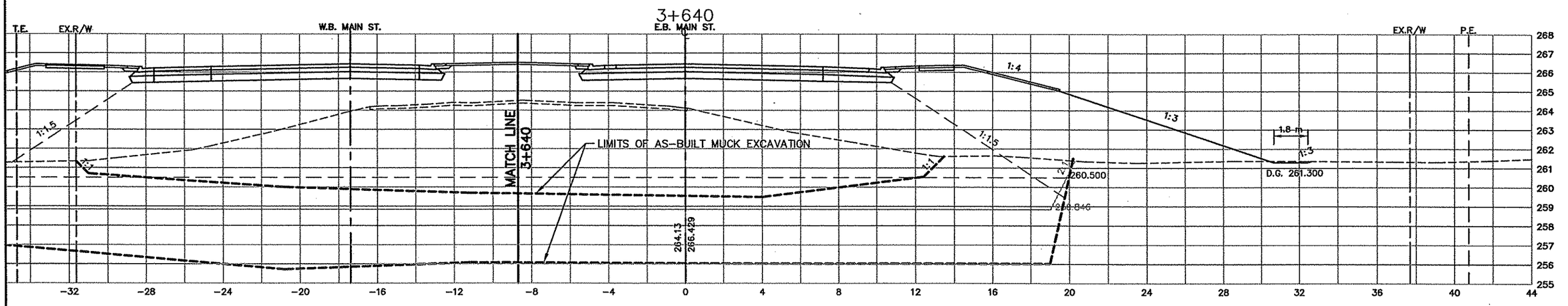
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

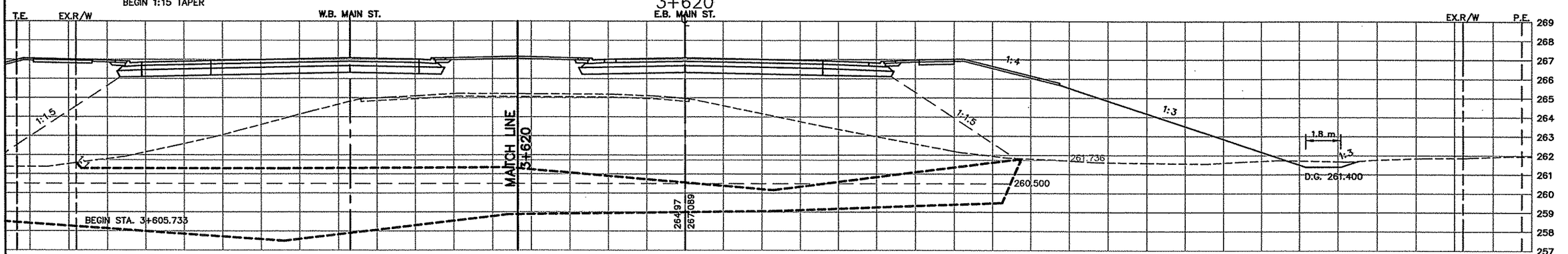
SHEET NO. 453 / 539

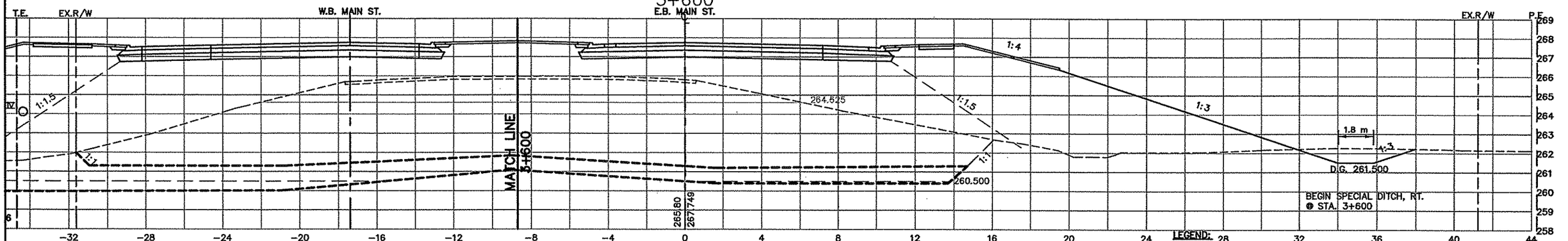
PLOT DATE: Aug 1?, 2000 3:46pm DISK FILE NAME: (14.01) R:\33889\33889028\33889EXSEC\PLAN-SHT\242exs18.dwg

XSLEGD
SAPBOX
242E-XS



W.B. STA. 3+630.473, 11.40 m LT.
BEGIN 1:15 TAPER





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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS19
DATE: NOVEMBER 5, 1999

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DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+600.000 TO STATION 3+640.000

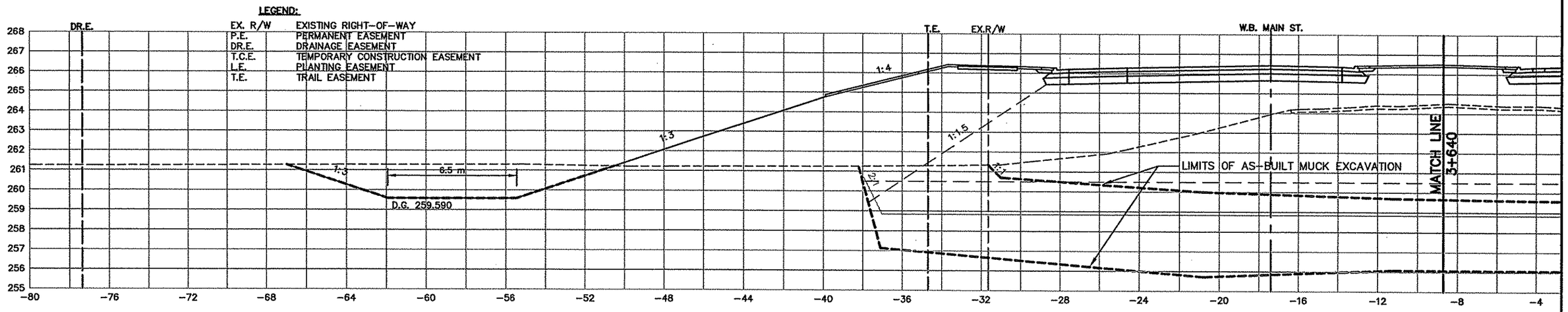
CITY PROJECT 98-20

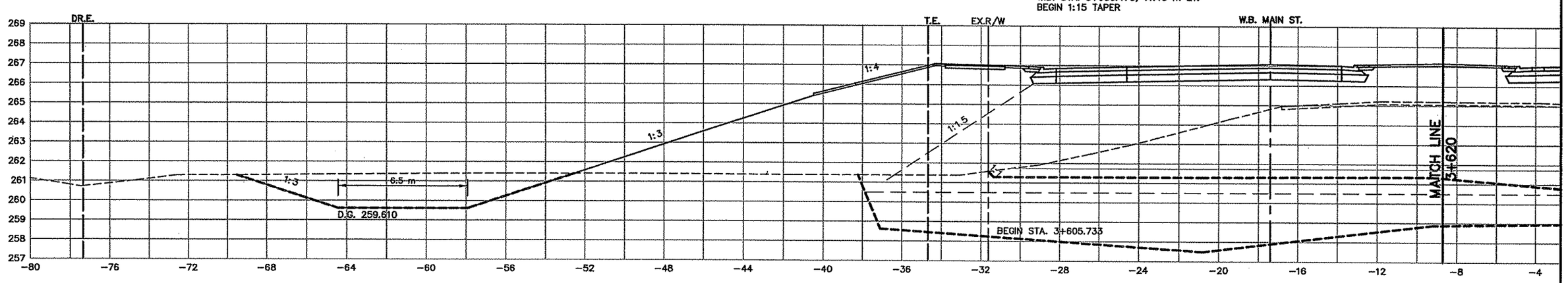
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

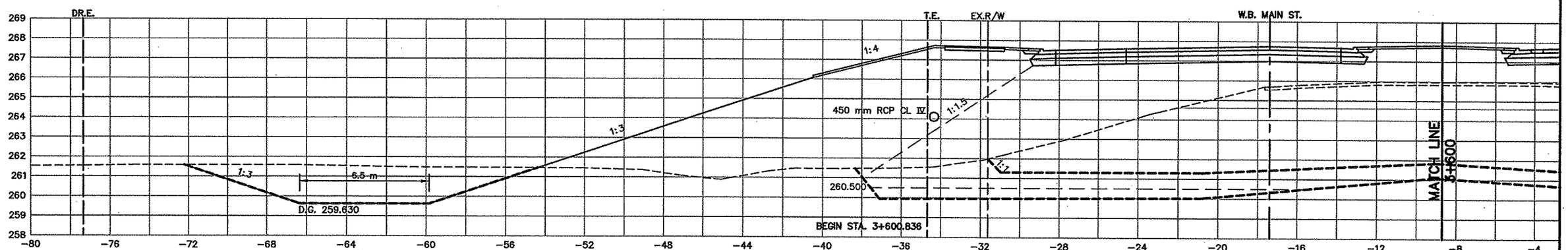
SHEET NO. 454 / 539

PLOT DATE: Aug 15 2000 3:48pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs19.dwg

SAPBOX
XSLEGD
242E-XS







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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS20
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+600.000 TO STATION 3+640.000

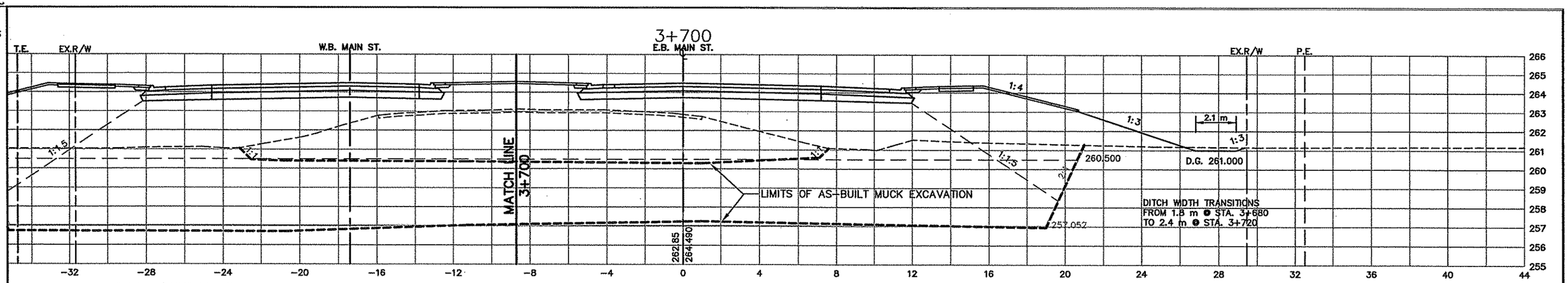
CITY PROJECT 98-20

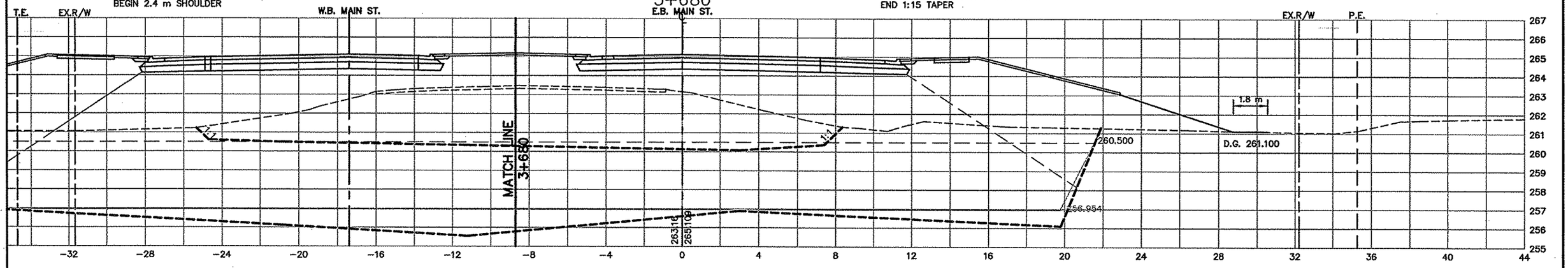
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

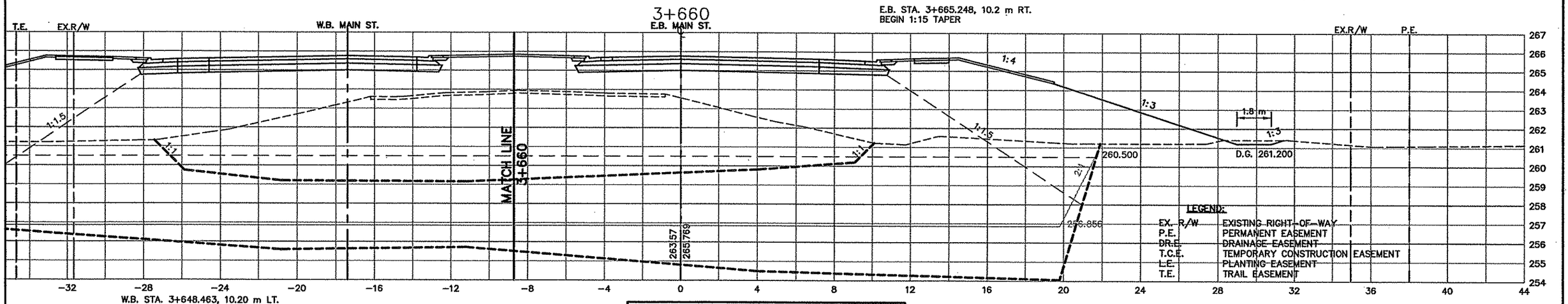
SHEET NO. 455 / 539

PLOT DATE: Aug ..., 2000 3:5pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\P...-SHT\242exs20.dwg

XSLEGD
SAPBOX
242E-XS







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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS21
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+660.000 TO STATION 3+700.000

CITY PROJECT 98-20

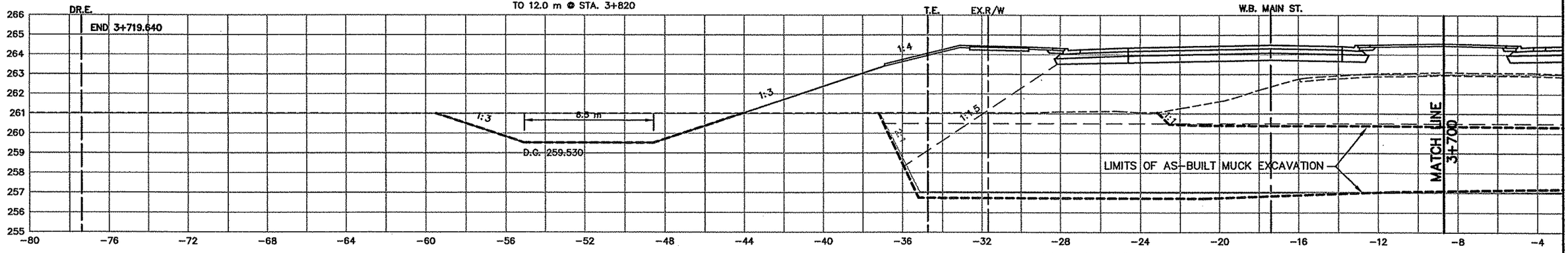
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 456 / 539

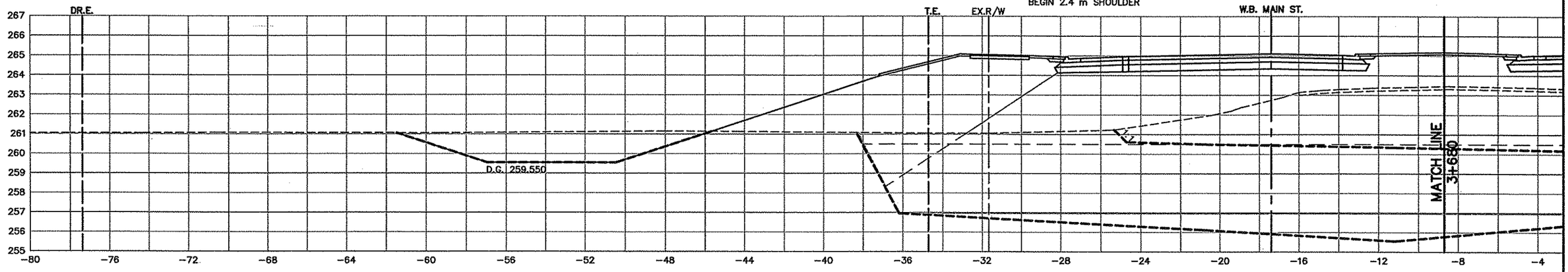
PLOT DATE: Aug 2000 4:3pm DISK FILE NAME: (14.01) R:\33889\33889028\33889EXSEC\P...-SHT\242exs21.dwg

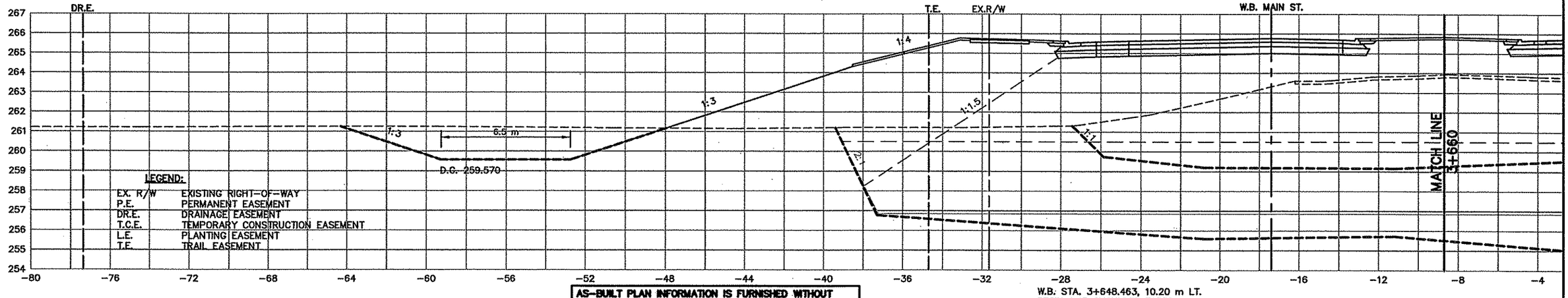
SAPBOX
XSLEGD
242E-XS

DITCH WIDTH TRANSITIONS
FROM 6.5 m @ STA. 3+700
TO 12.0 m @ STA. 3+820



W.B. STA. 3+684.454, 7.2 m LT.
END 1:15 SHOULDER TAPER
BEGIN 2.4 m SHOULDER





LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

W.B. STA. 3+648.463, 10.20 m LT.
BEGIN 1:15 SHOULDER TAPER
END 1:15 TAPER (CURB)

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS22
DATE: NOVEMBER 5, 1999

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+660.000 TO STATION 3+700.000

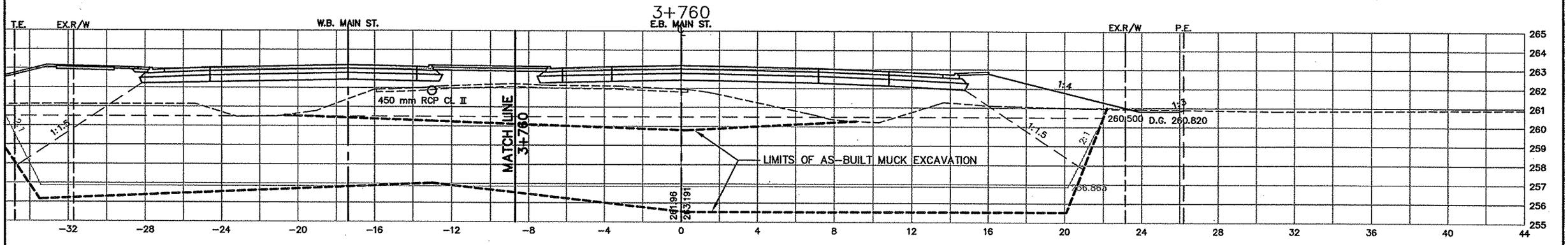
CITY PROJECT 98-20

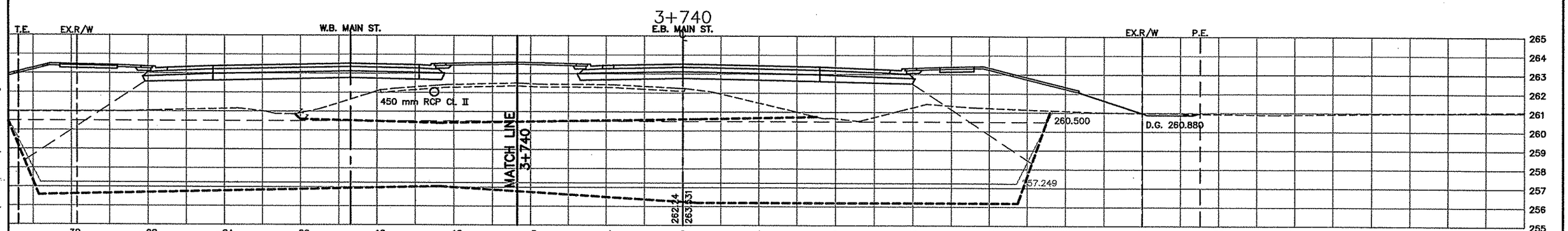
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 457 / 539

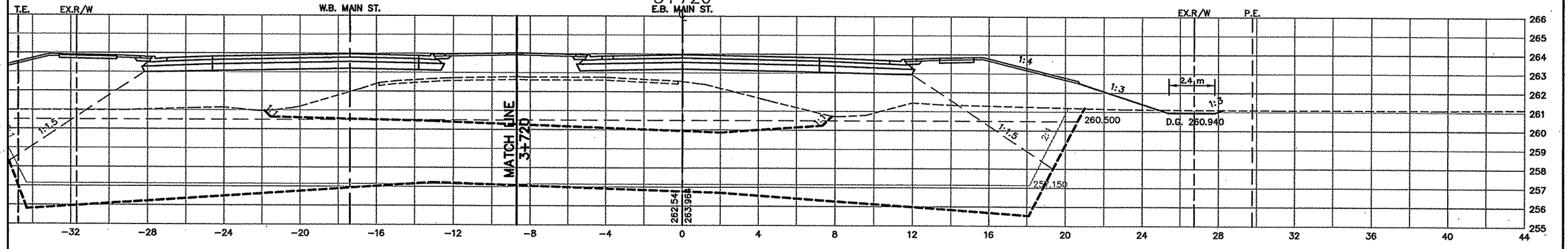
PLOT DATE: Aug 11, 2000 3:45pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs22.dwg

XSLEGD
SAPBOX
242E-XS





E.B. STA. 3+739.841
BEGIN 1:10 TAPER, 4.80 m LT.



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

23 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS23
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+720.000 TO STATION 3+760.000

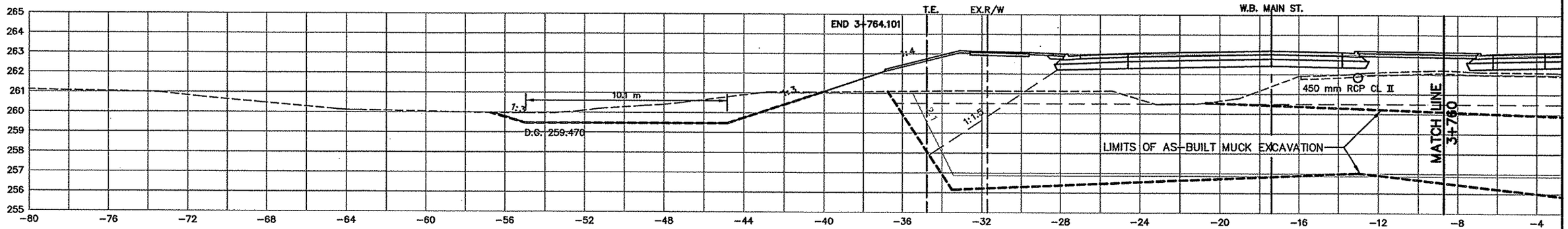
CITY PROJECT 98-20

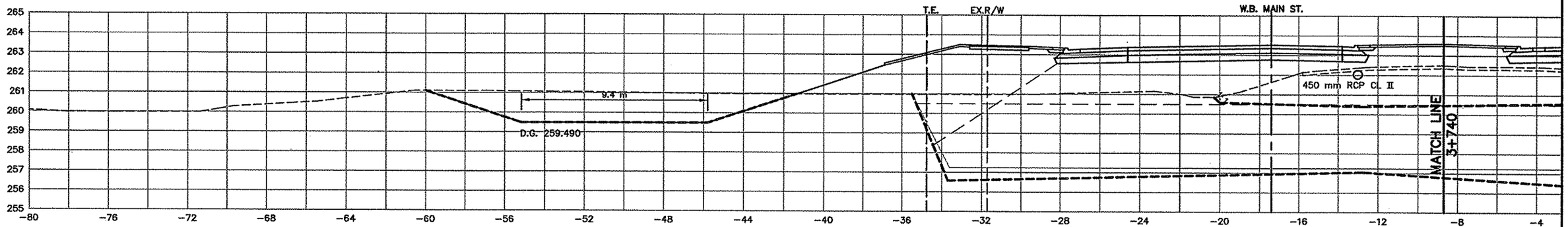
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 458 / 539

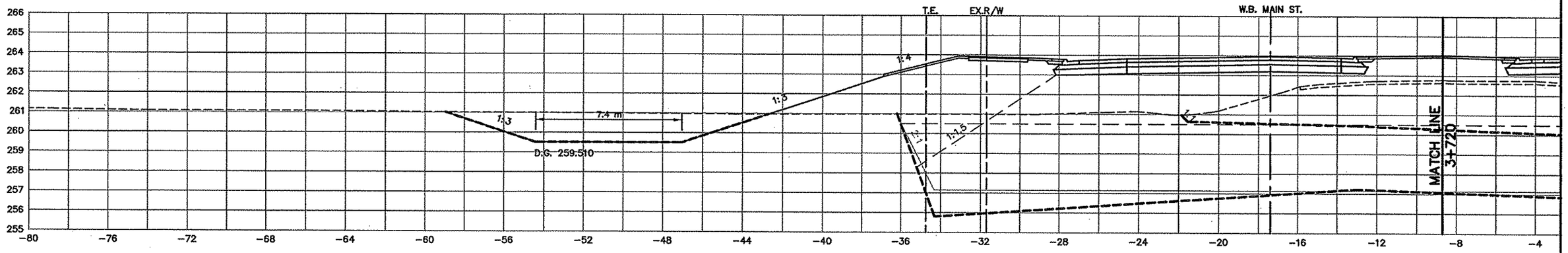
PLOT DATE: Aug — 2000 3:43pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSECT\SHT\242exs23.dwg

SAPBOX
XSLEGD
242E-XS





E.B. STA. 3+739.841
BEGIN 1:10 TAPER, 4.80 m LT.



LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

24 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS24
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+720.000 TO STATION 3+760.000

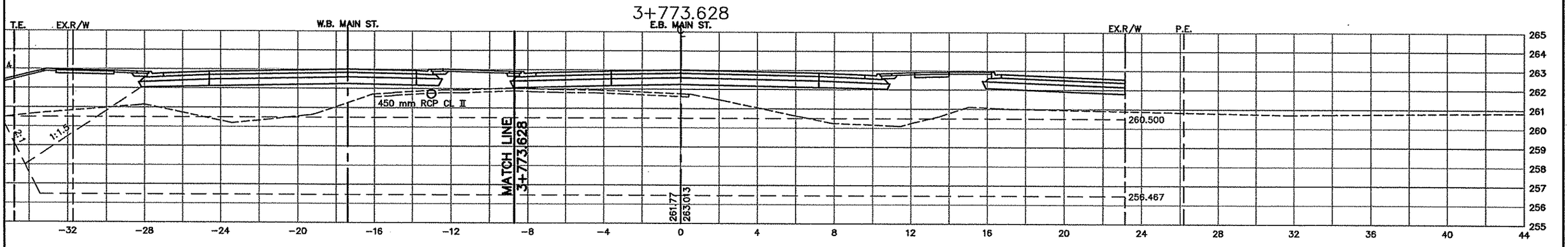
CITY PROJECT 98-20

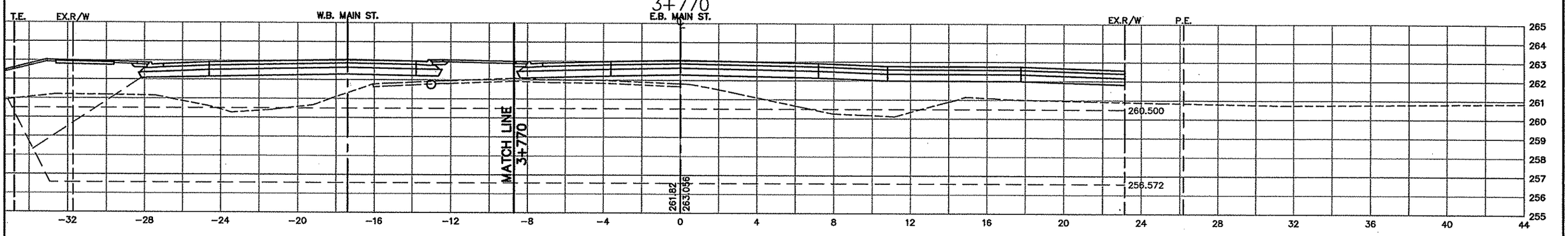
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

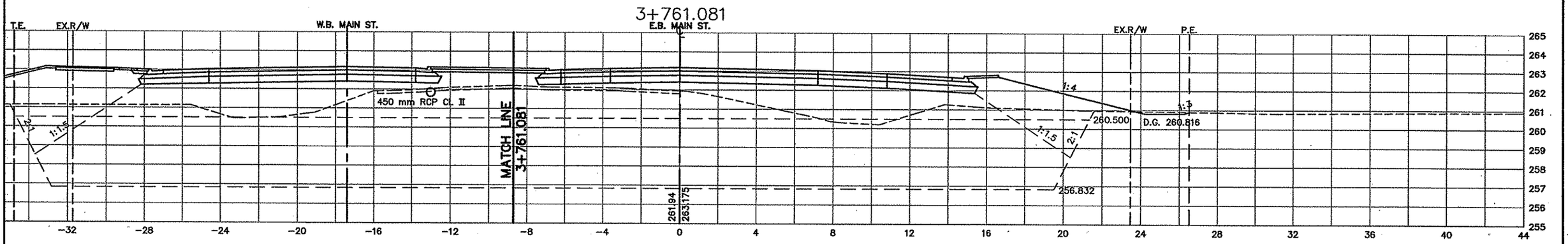
SHEET NO. 459 / 539

PLOT DATE: Aug ..., 2000 3:41pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\P...-SHT\242exs24.dwg

XSLEGD
SAPBOX
242E-XS







AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS25
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+761.081 TO STATION 3+773.628

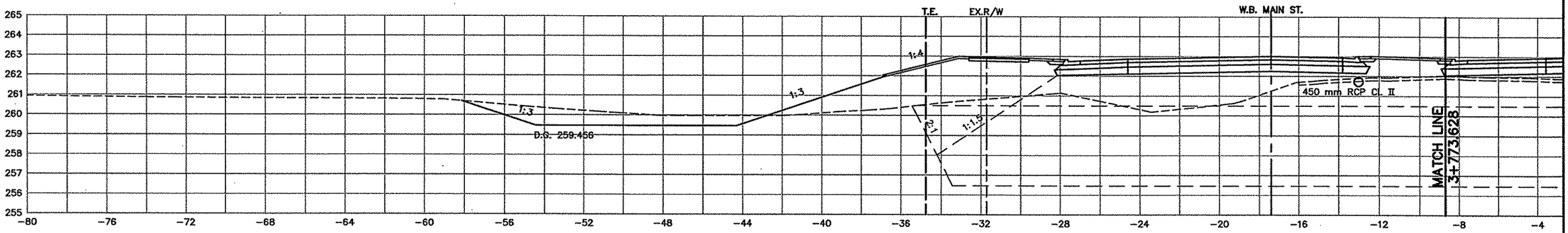
CITY PROJECT 98-20

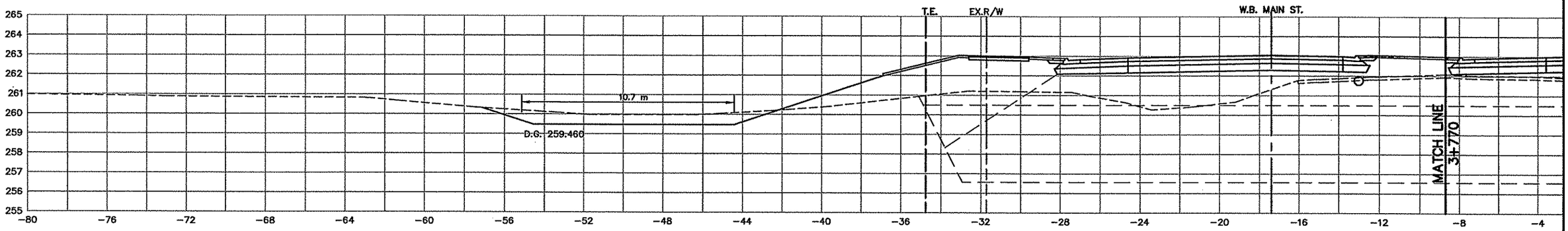
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

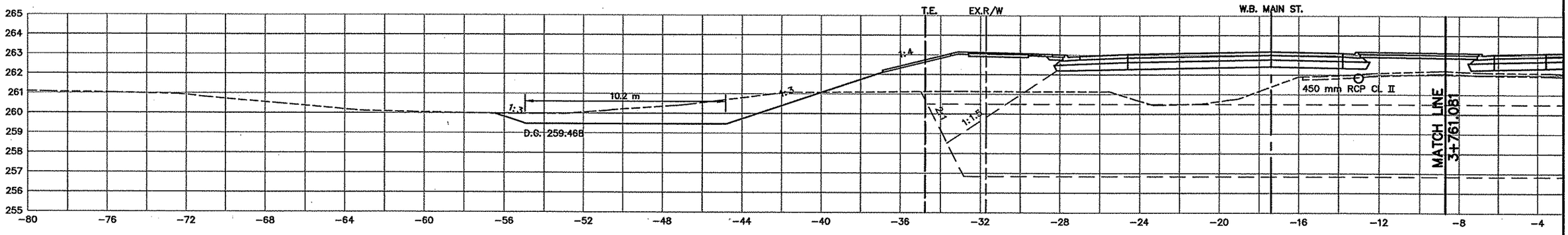
SHEET NO. 460 / 539

PLOT DATE: Aug ..., 2000 4:33pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs25.dwg

SAPBOX
XSLEGD
242E-XS







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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS26
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+761.081 TO STATION 3+773.628

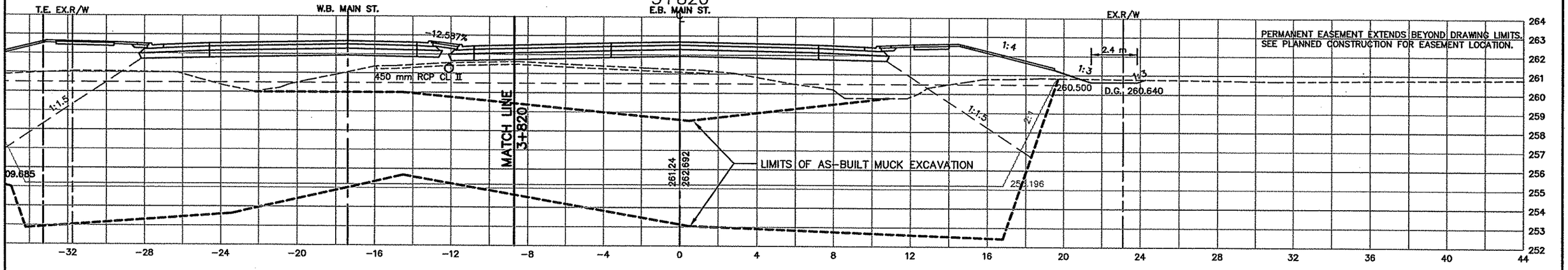
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

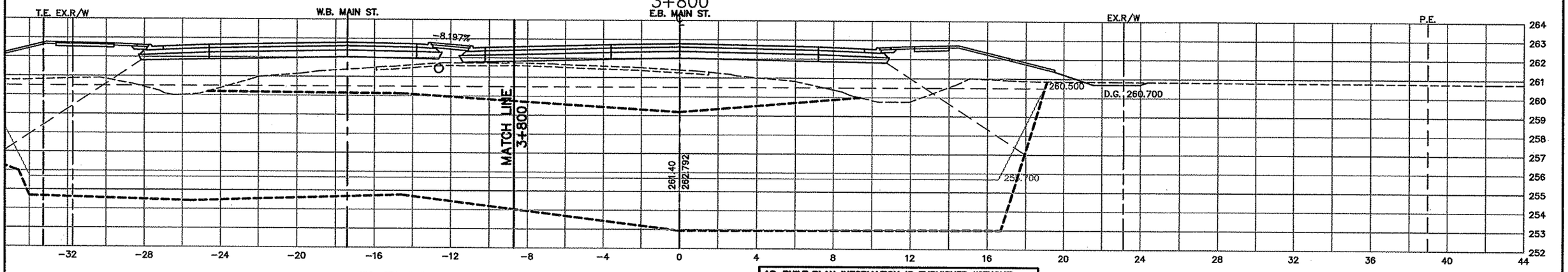
SHEET NO. 461 / 539

PLOT DATE: Aug 17, 2000 4:34pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs26.dwg

XSLEGD
SAPBOX
242E-XS

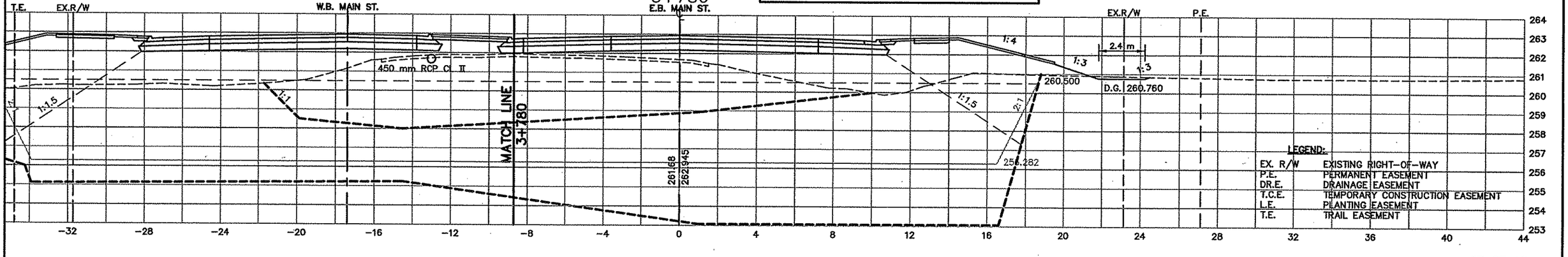


W.B. STA. 3+805.841, LT.
END 1:10 TAPER



W.B. STA. 3+796.841, LT.
BEGIN CONCRETE MEDIAN

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS27
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+780.000 TO STATION 3+820.000

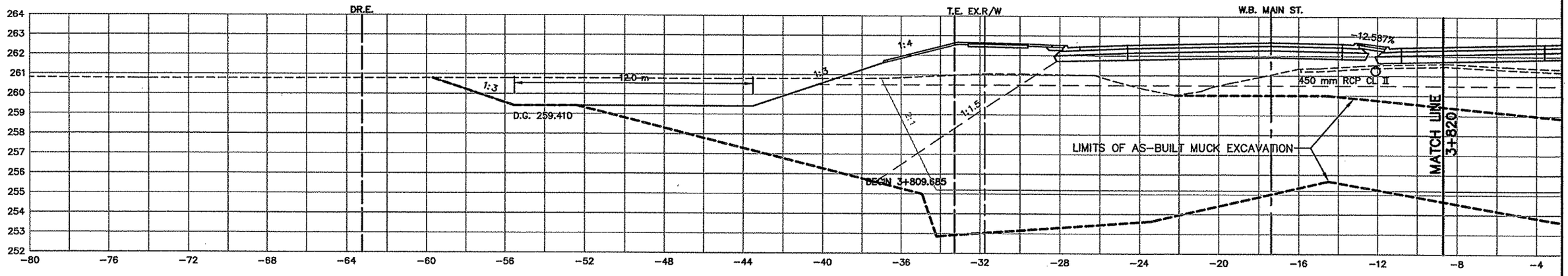
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

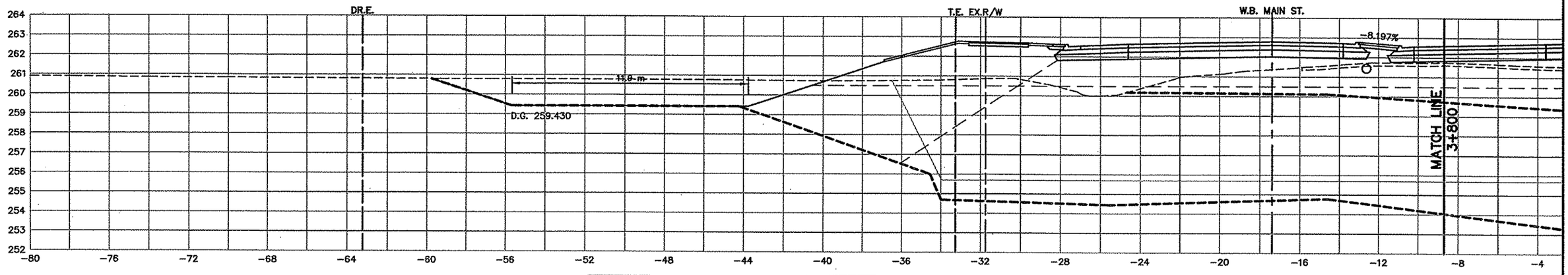
SHEET NO. 462 / 539

PLOT DATE: Aug __, 2000 3:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSECT\242exs27.dwg

SAPBOX
XSLEGD
242E-XS

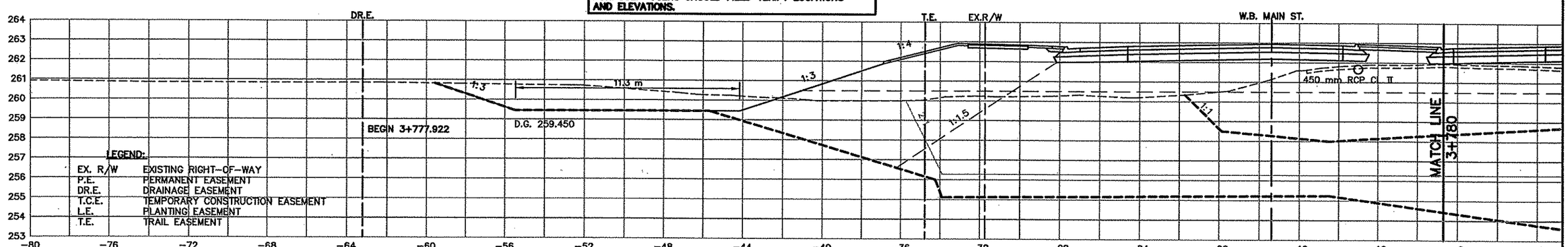


W.B. STA. 3+805.841, LT.
END 1:10 TAPER



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W.B. STA. 3+796.841, LT.
BEGIN CONCRETE MEDIAN



LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS28
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DEM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+780.000 TO STATION 3+820.000

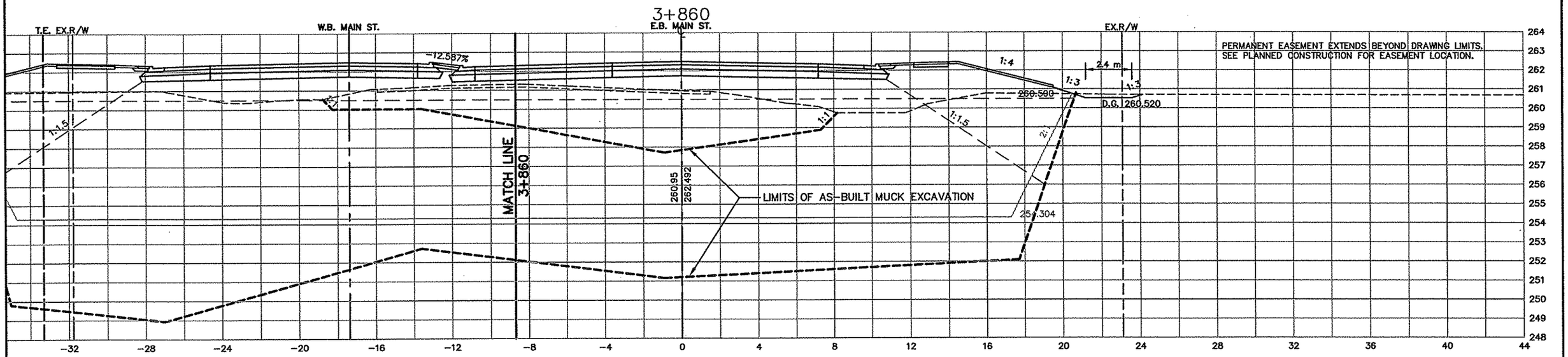
CITY PROJECT 98-20

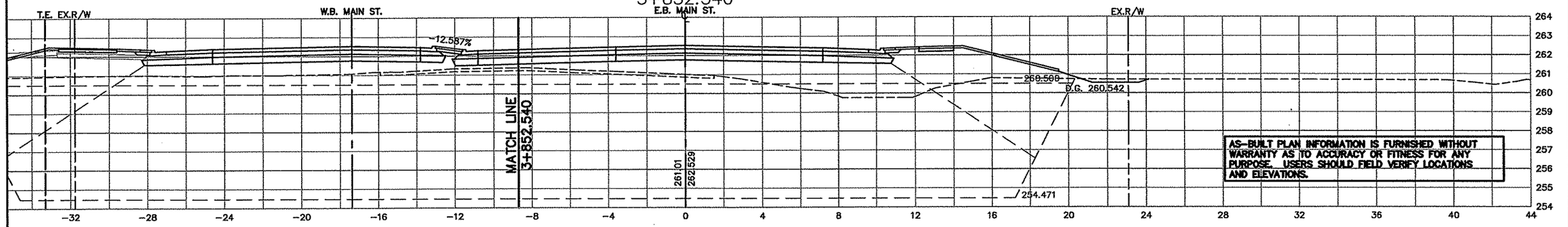
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

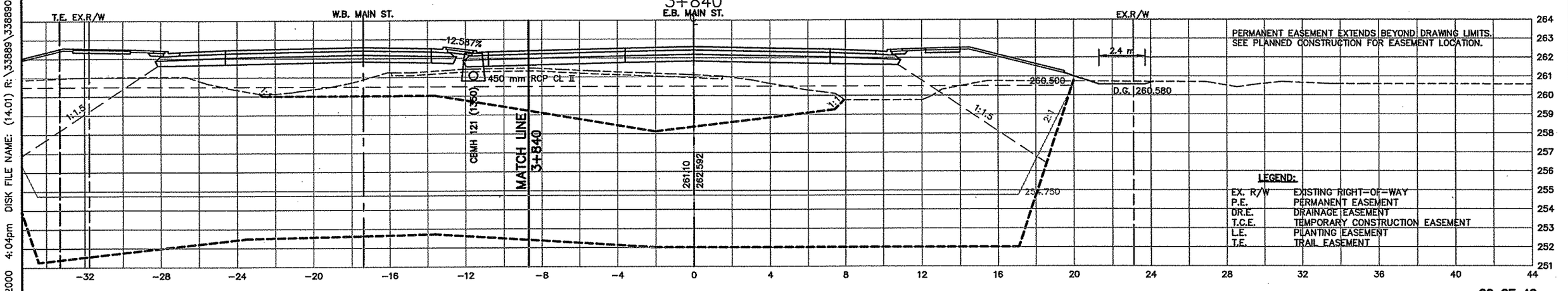
SHEET NO. 463 / 539

PLOT DATE: Aug 2000 4:36pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\FINAL-SHT\242exs28.dwg

XSLEGD
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242E-XS







REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS29
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16

Kevin P Kiedl

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+840.000 TO STATION 3+860.000

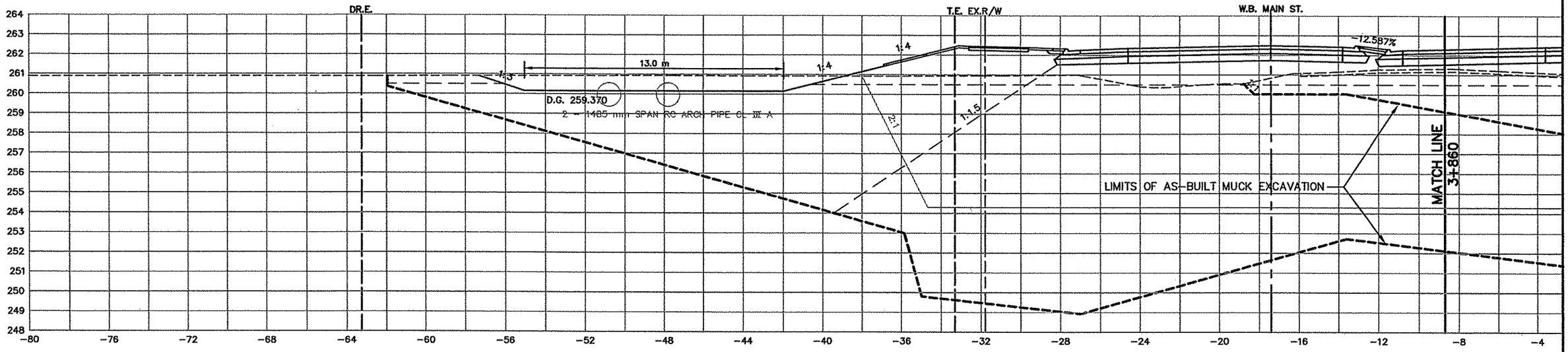
CITY PROJECT 98-20

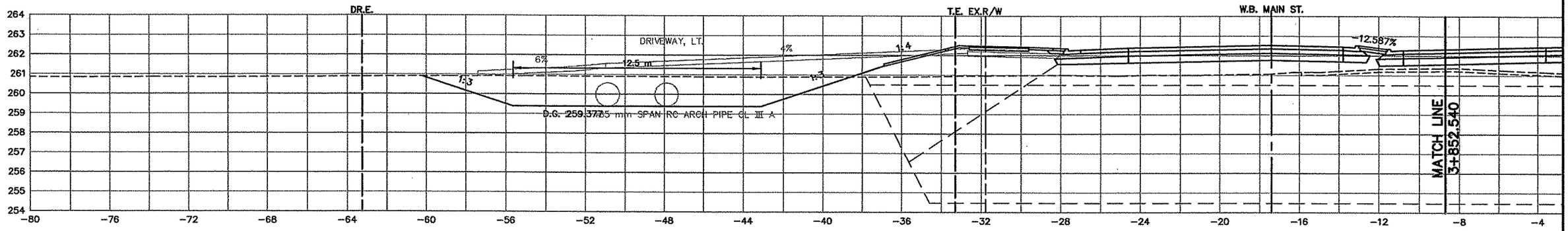
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

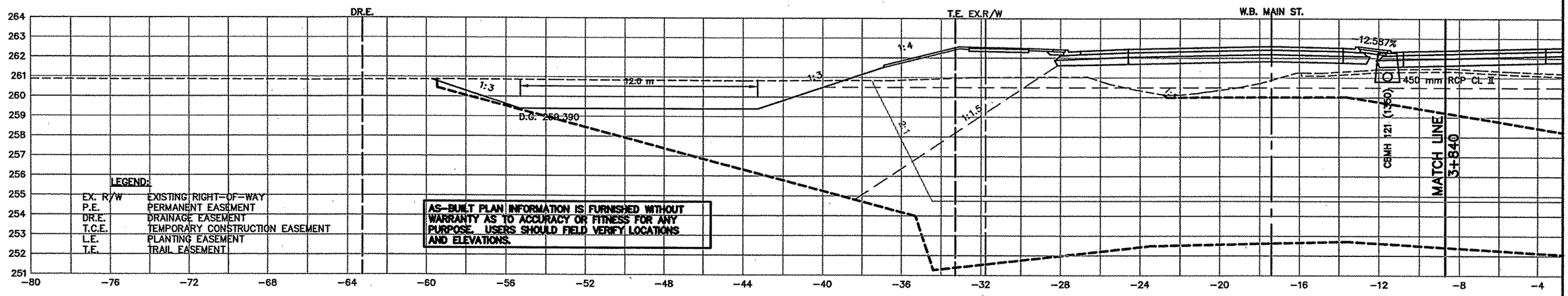
SHEET NO. 464 / 539

PLOT DATE: Aug 1, 2000 4:04pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs29.dwg

SAPBOX
XSLEGD
242E-XS







LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

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30 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED D/W 3+852.540, LT., DELETED CULVERTS
	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS30
DATE: NOVEMBER 5, 1999

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+840.000 TO STATION 3+860.000

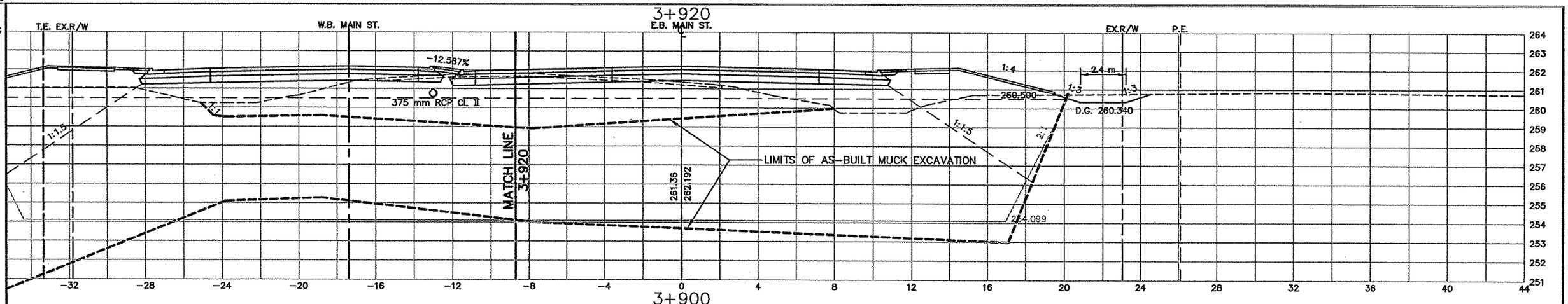
CITY PROJECT 98-20

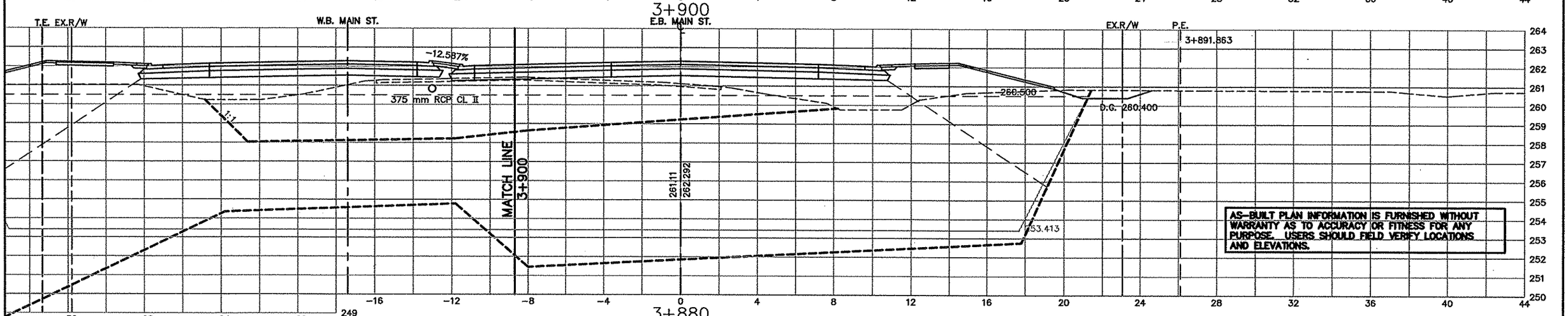
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

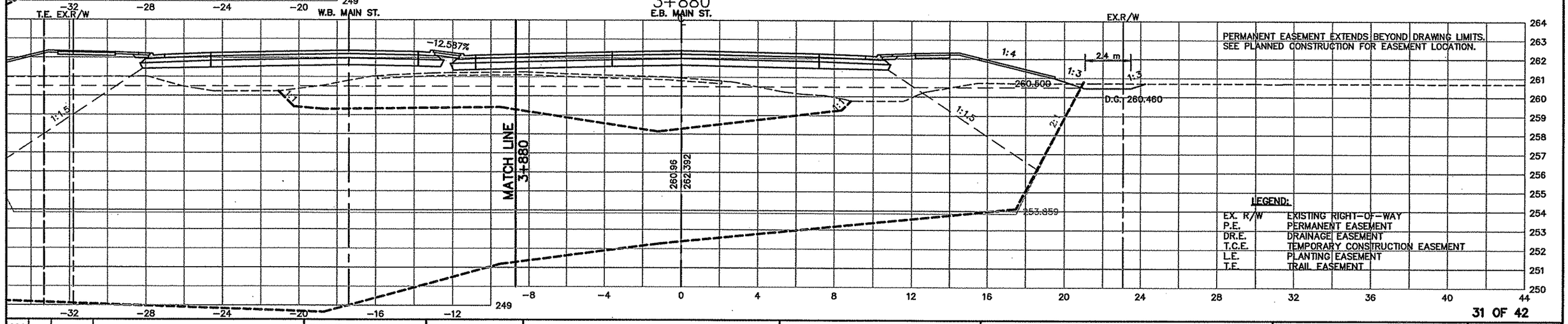
SHEET NO. 465 / 539

PLOT DATE: Aug 17, 2000 4:08pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs30.dwg

XSLEGD
SAPBOX
242E-XS







REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS31
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+880.000 TO STATION 3+920.000

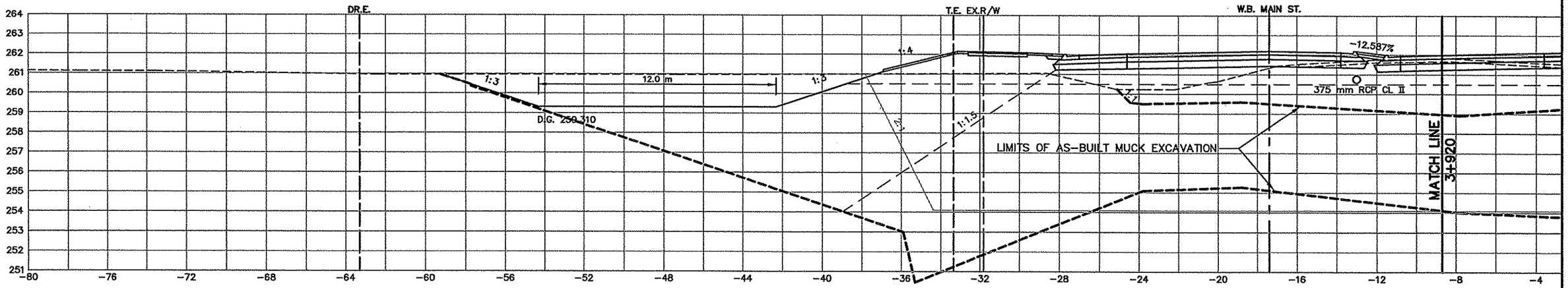
CITY PROJECT 98-20

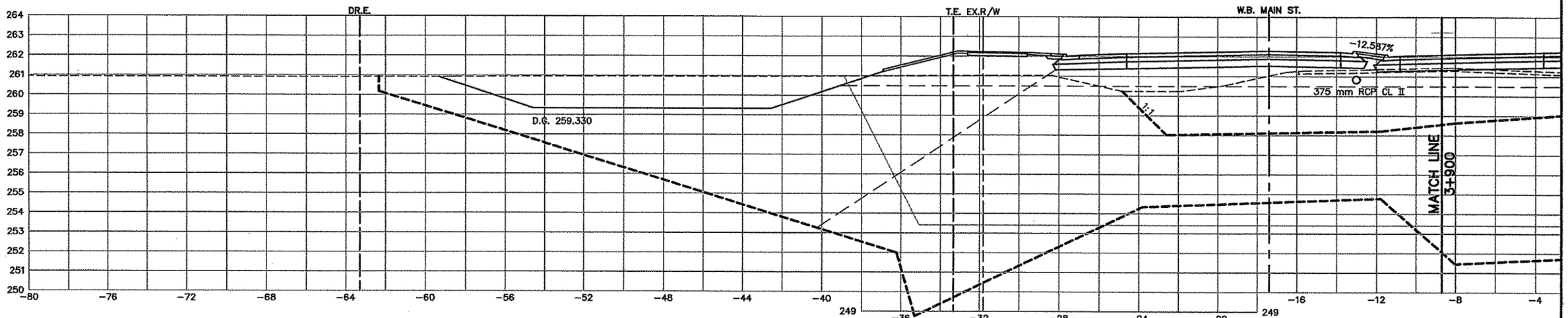
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

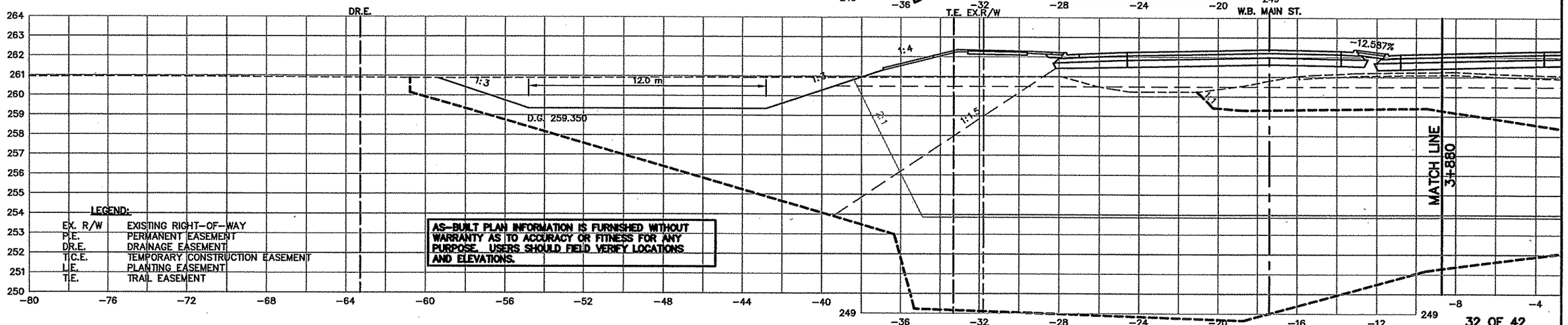
SHEET NO. 466 / 539

PLOT DATE: Aug 2000 4:19pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs31.dwg

SAPBOX
XSLEGD
242E-XS







LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: 242EXS32
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 326.16.

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+880.000 TO STATION 3+920.000

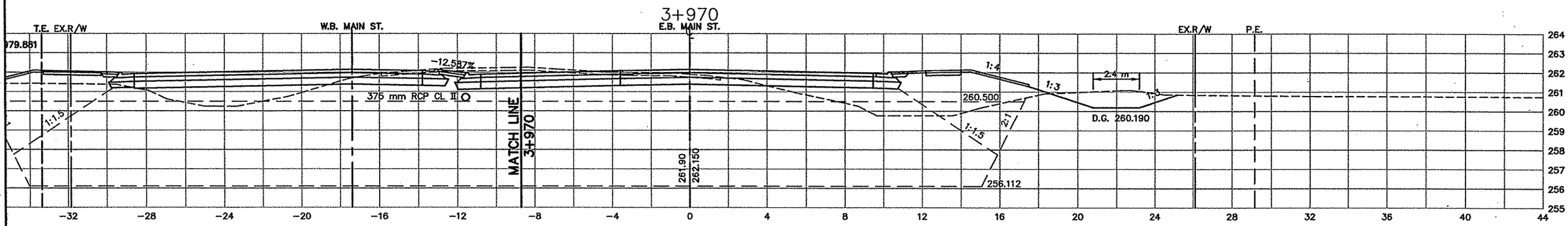
CITY PROJECT 98-20

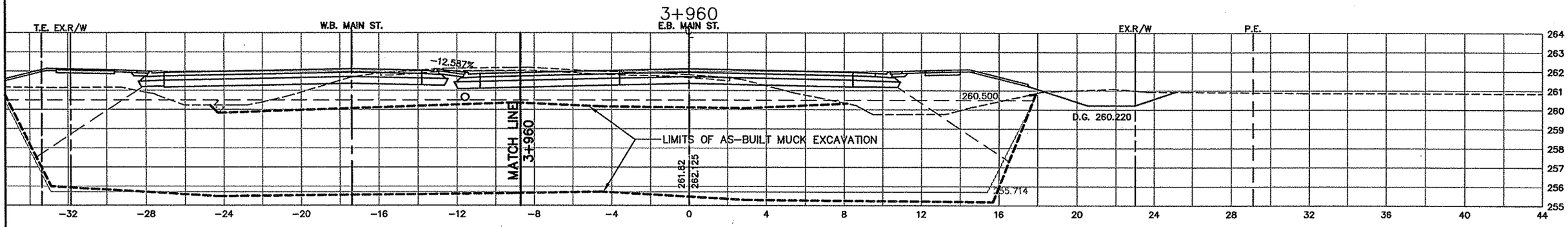
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

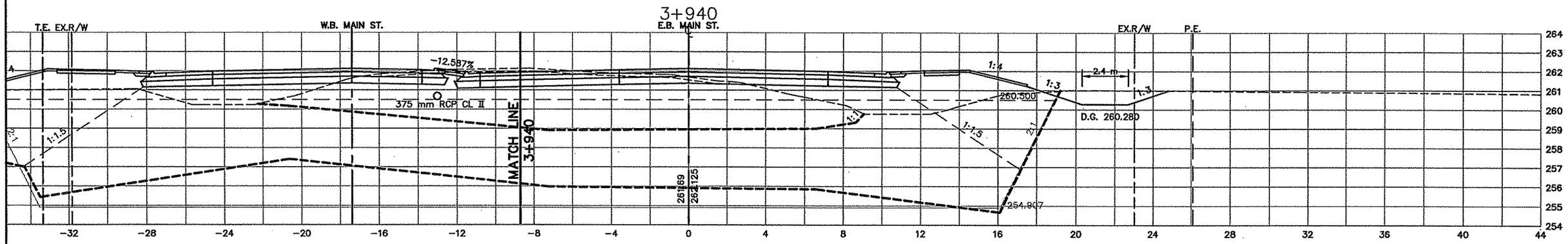
SHEET NO. 467 / 539

PLOT DATE: Aug __, 2000 4:23pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\[illegible]-SHT\242exs32.dwg

XSLEGD
SAPBOX
242E-XS







AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS33
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+940.000 TO STATION 3+970.000

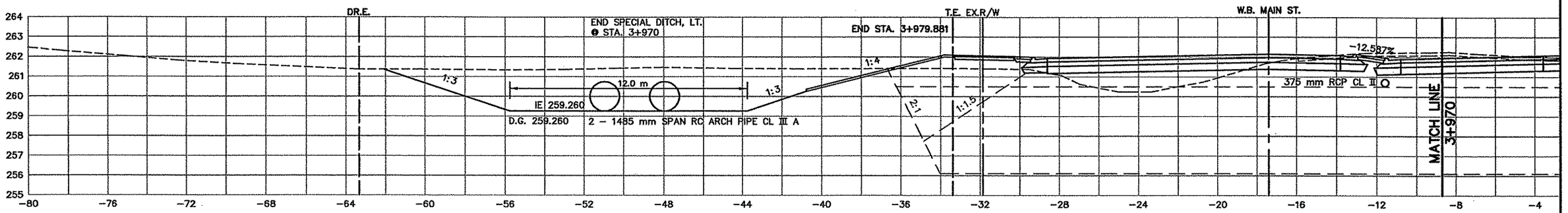
CITY PROJECT 98-20

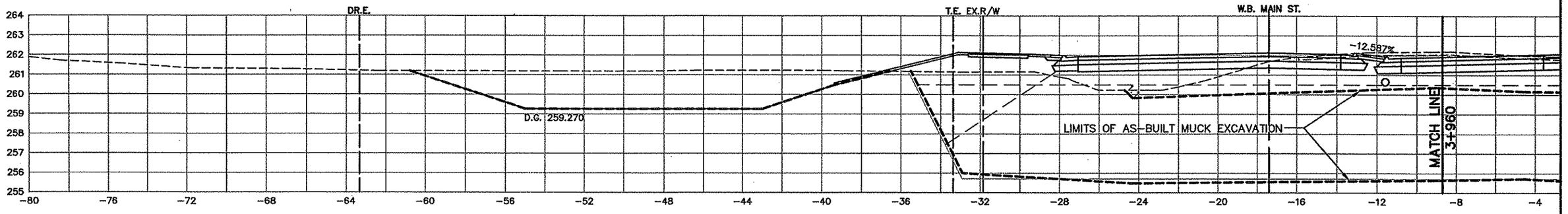
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

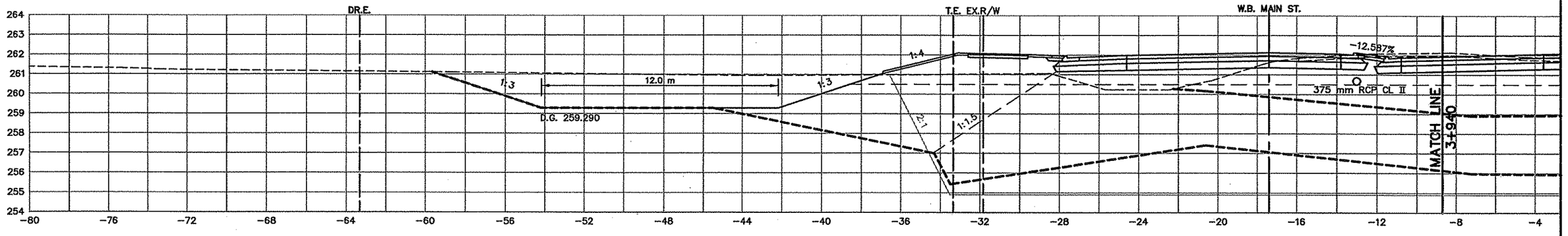
SHEET NO. 468 / 539

PLOT DATE: Aug ... 2000 4:39pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\...-SHT\242exs33.dwg

SAPBOX
XSLEGD
242E-XS







LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

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34 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS34
DATE: NOVEMBER 5, 1999

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+940.000 TO STATION 3+970.000

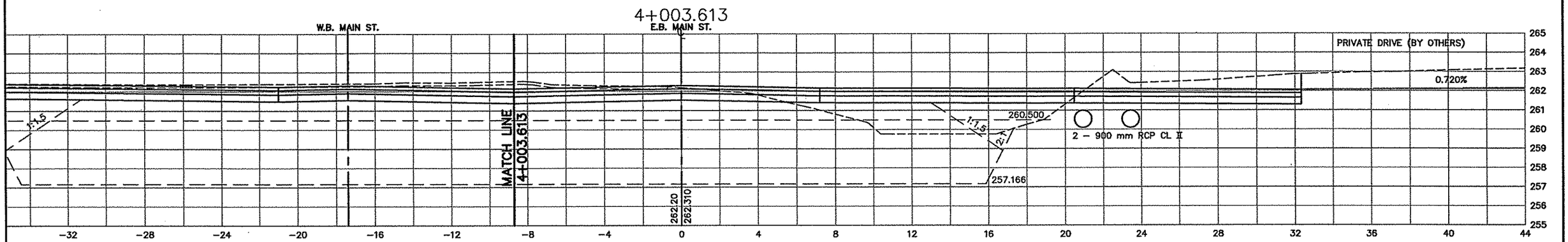
CITY PROJECT 98-20

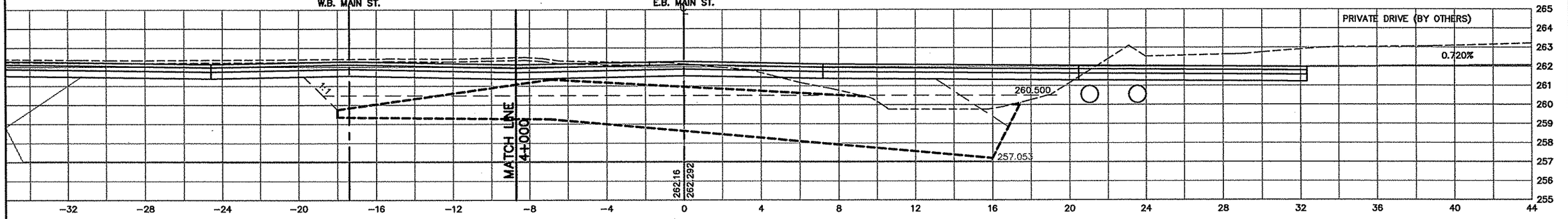
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

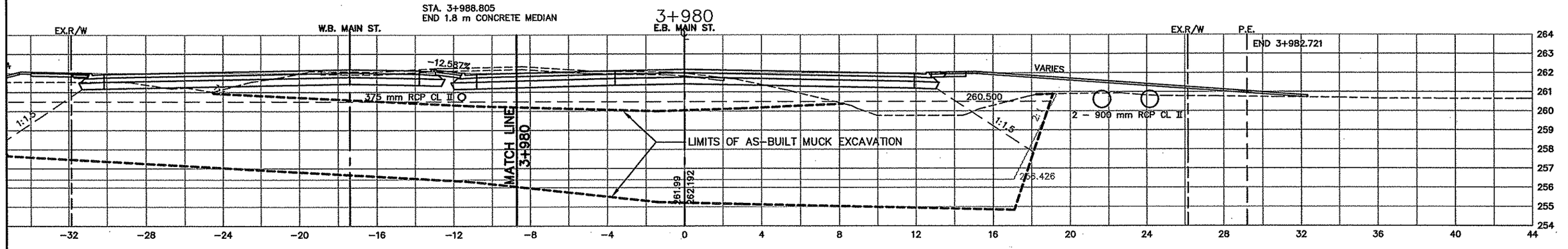
SHEET NO. 469 / 539

PLOT DATE: Aug ..., 2000 4:42pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\...-SHT\242exs34.dwg

XSLEGD
SAPBOX
242E-XS







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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

35 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS35
DATE: NOVEMBER 5, 1999

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Bielb
DATE: 11/5/99 MINN. REG. NO. 23211

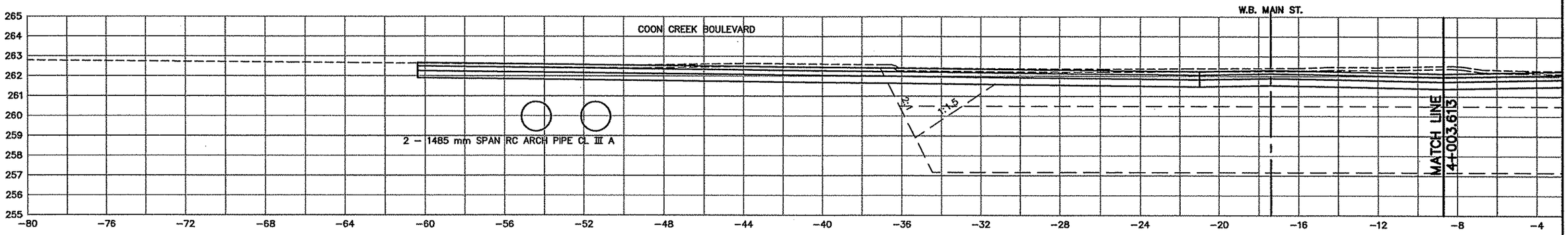
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+980.000 TO STATION 4+003.613

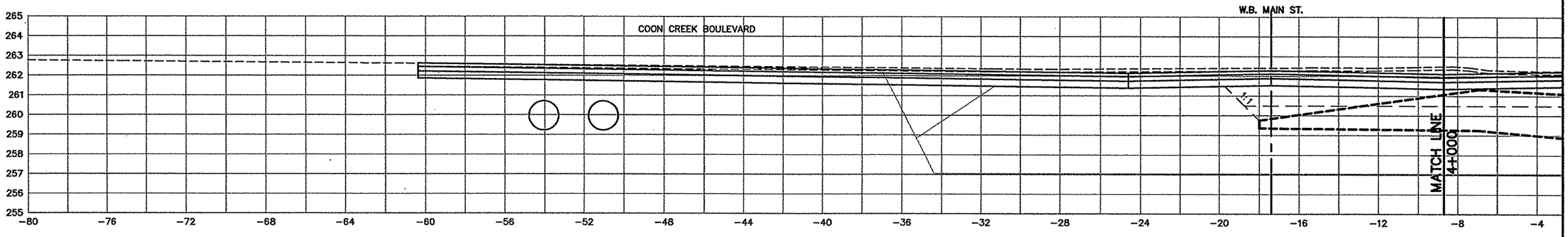
CITY PROJECT 98-20

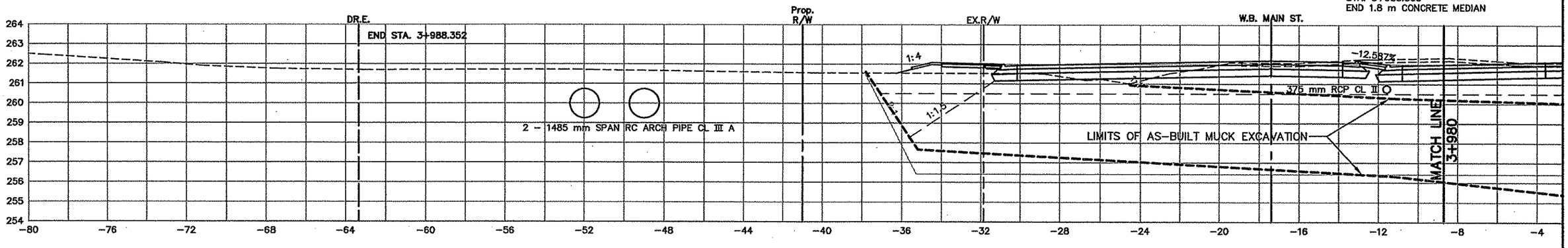
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 470 / 539

PLOT DATE: Aug .., 2000 4:48pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\F...N-SHT\242exs35.dwg







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LEGEND:

EX. R/W	EXISTING RIGHT–OF–WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

36 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS36
DATE: NOVEMBER 5, 1999

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+980.000 TO STATION 4+003.613

CITY PROJECT 98–20

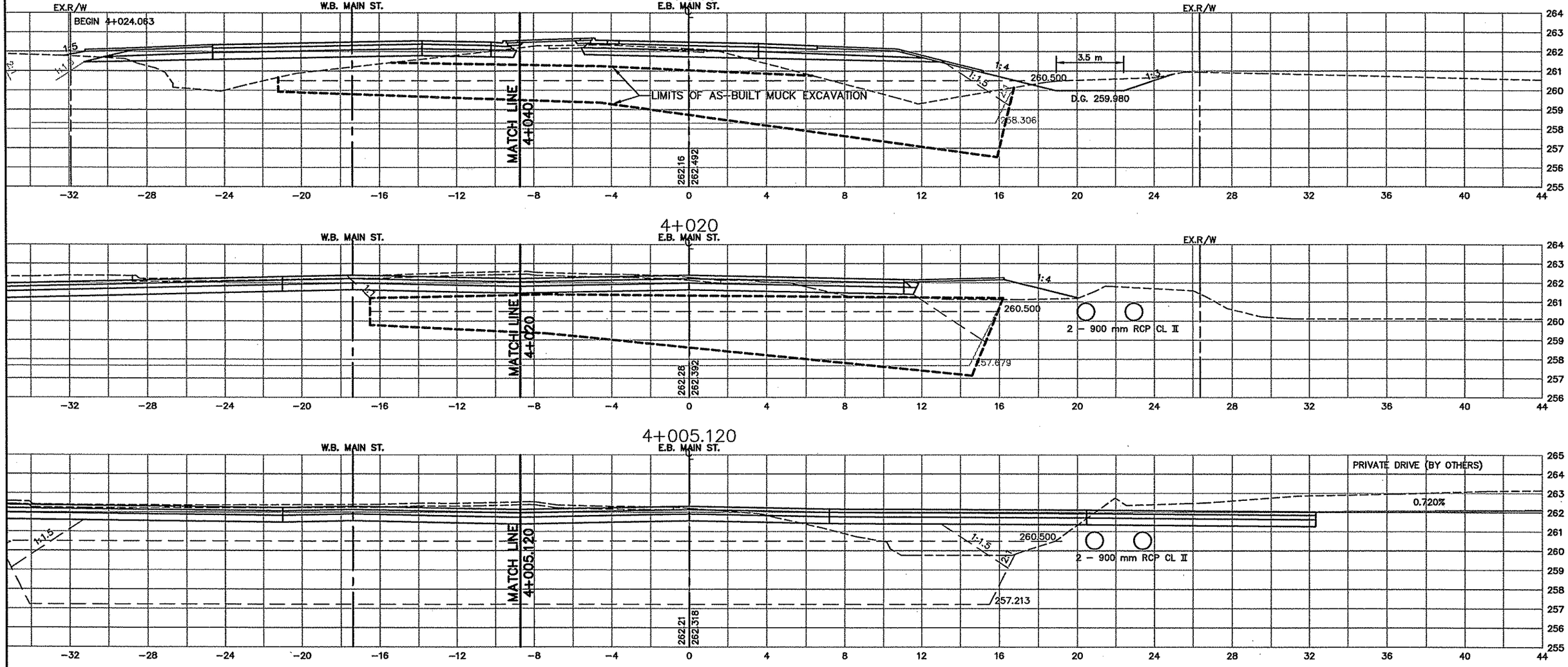
S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 471 / 539

PLOT DATE: Aug 2000 4:5pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\...–SHT\242exs36.dwg

SAPBOX
XSLEGD
242E-XS

BASELINE STA. 4+040.000
END FULL CONSTRUCTION
BEGIN TEMPORARY PAVEMENT, LT. & RT.



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

37 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS37
DATE: NOVEMBER 5, 1999

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 4+005.120 TO STATION 4+040.000

CITY PROJECT 98-20

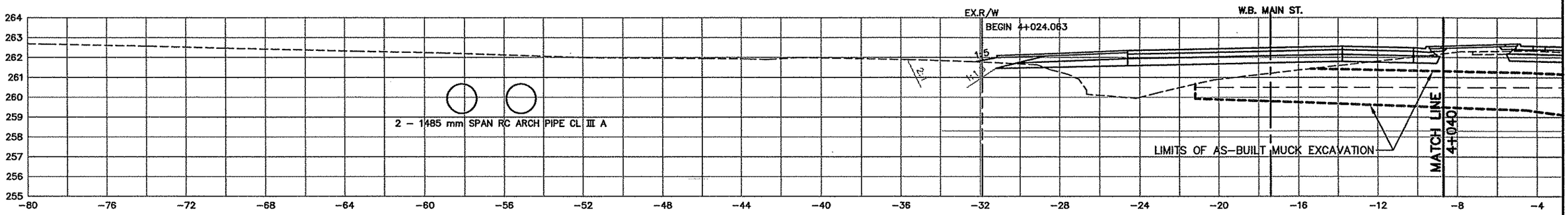
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

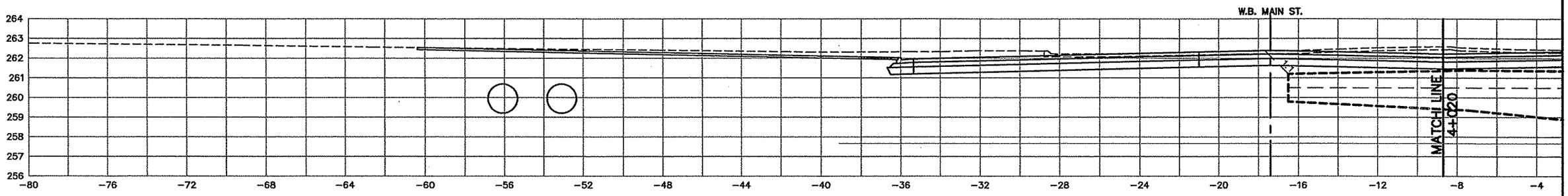
SHEET NO. 472 / 539

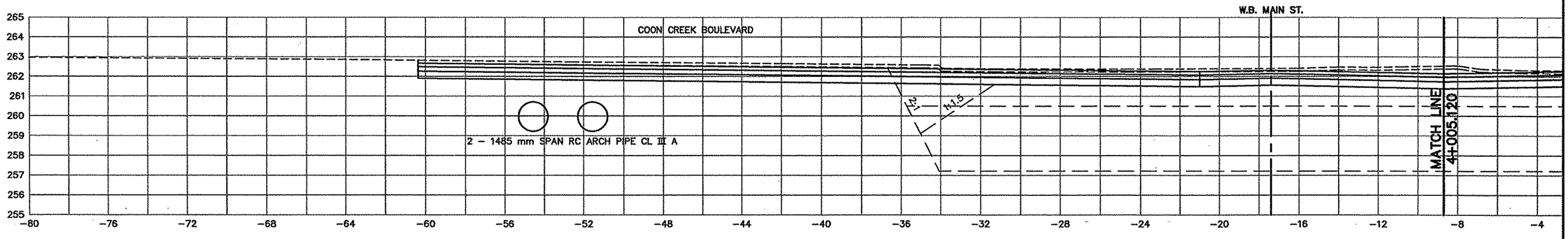
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SAPBOX
XSLEGD
242E-XS

BASELINE STA. 4+040.000
END FULL CONSTRUCTION
BEGIN TEMPORARY PAVEMENT, LT. & RT.







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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS38
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 4+005.120 TO STATION 4+040.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 473 / 539

PLOT DATE: Aug 17, 2000 4:53pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs38.dwg

AIN2AXS
APBOX
SLEGD

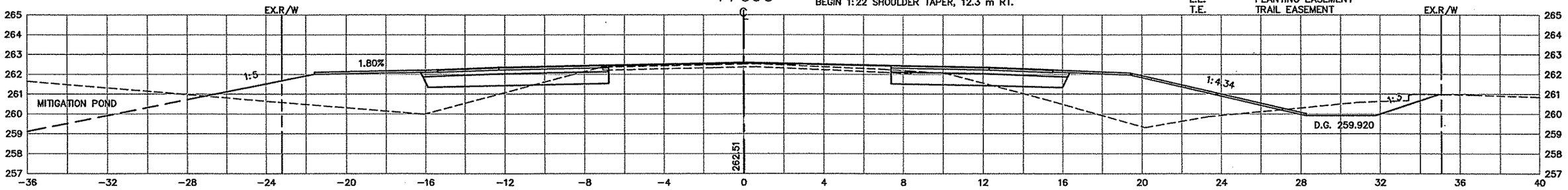
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

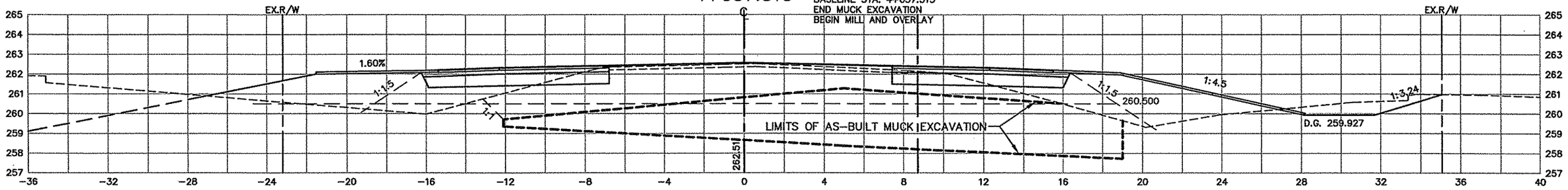
4+060

BASELINE STA. 4+060.663
BEGIN 1:35 LANE TAPER, 5.1 m RT.
BEGIN 1:22 SHOULDER TAPER, 12.3 m RT.

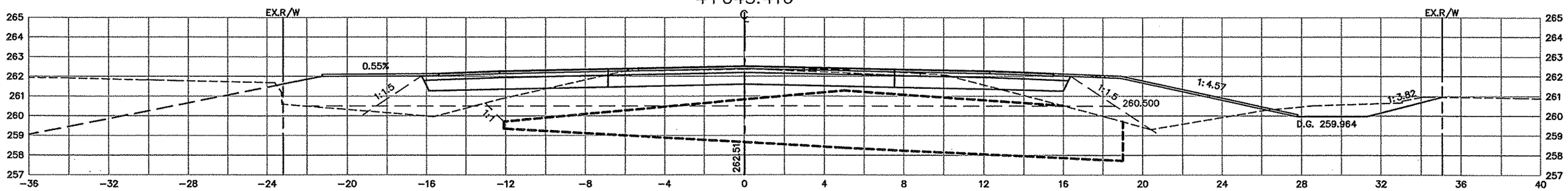


4+057.515

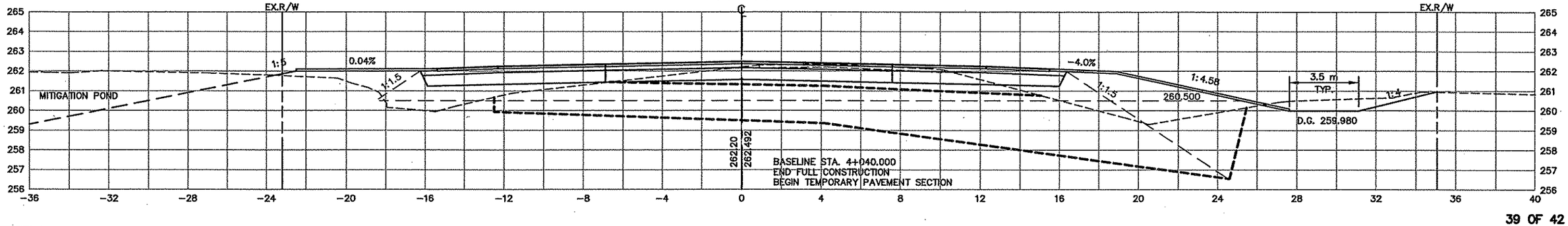
BASELINE STA. 4+057.515
END MUCK EXCAVATION
BEGIN MILL AND OVERLAY



4+045.416



4+040



39 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS39
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 4+040.000 TO STATION 4+060.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 474 / 539

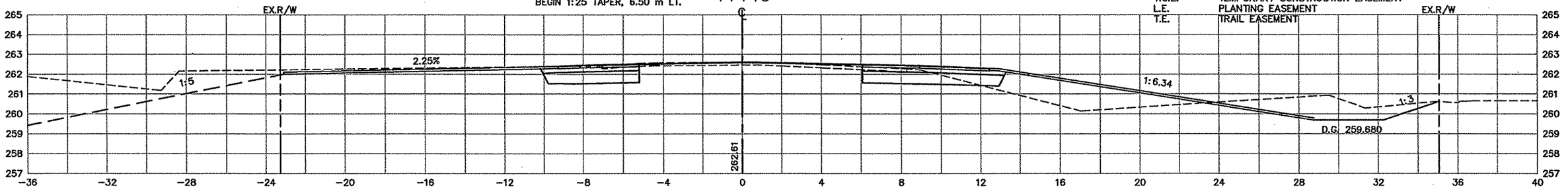
PLOT DATE: Aug 17, 2000 5:09pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs39.dwg

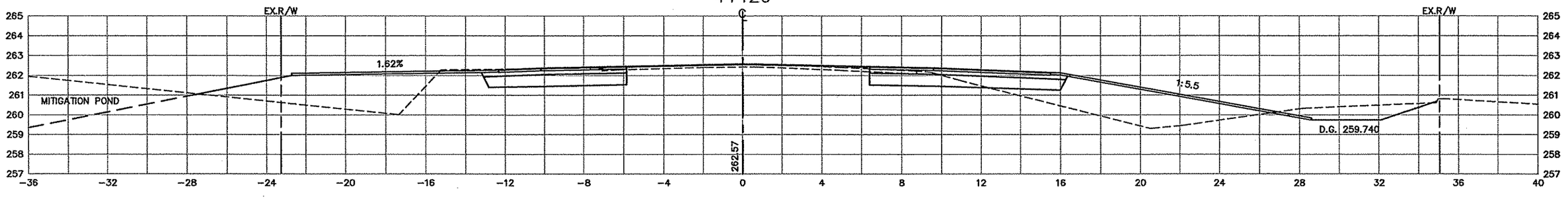
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

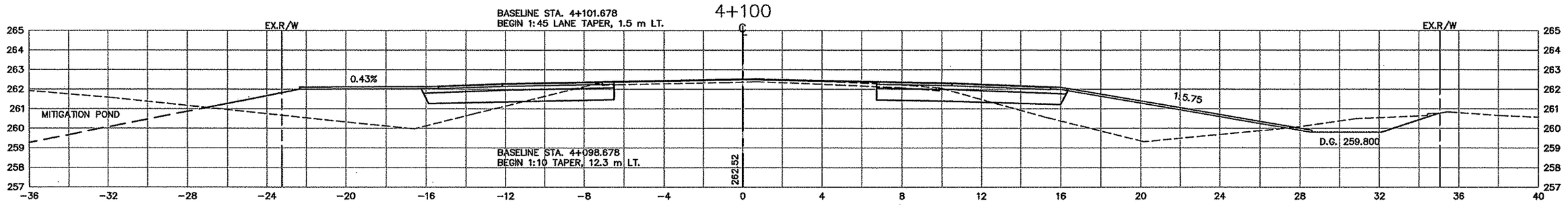
EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

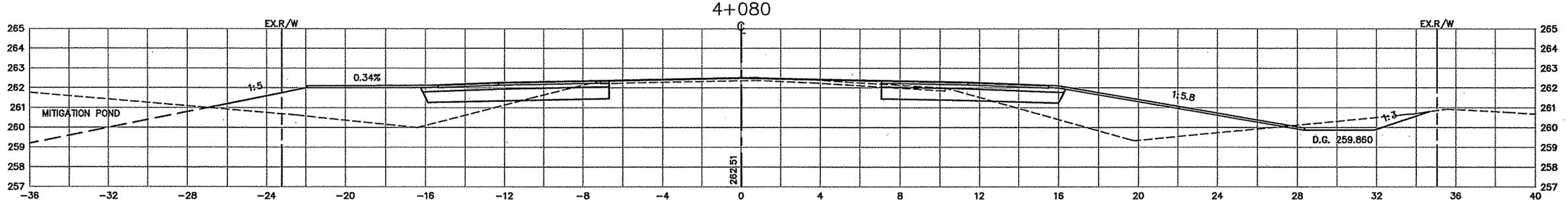
BASELINE STA. 4+156.630
END 1:10 TAPER, 6.50 m LT.
BEGIN 1:25 TAPER, 6.50 m LT.





BASELINE STA. 4+101.678
BEGIN 1:45 LANE TAPER, 1.5 m LT.





REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS40
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 4+080.000 TO STATION 4+140.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 475 / 539

PLOT DATE: Jul 10, 2000 5:32pm DISK FILE NAME: (14.01h (Hardware Lock)) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs40.dwg

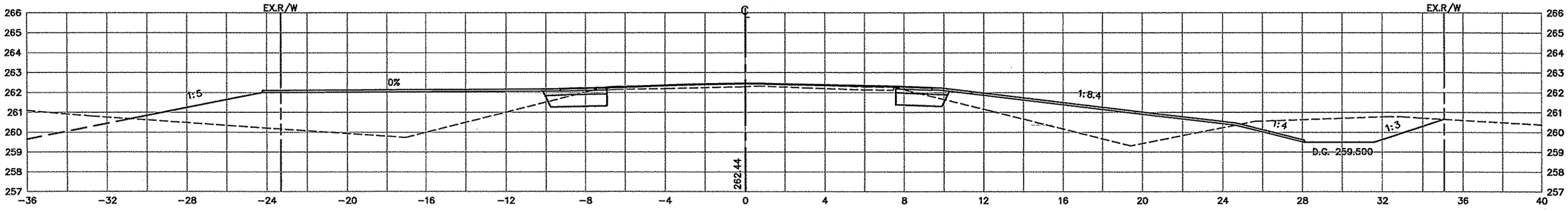
AIN2AXS
APBOX
SLEGD

LEGEND:

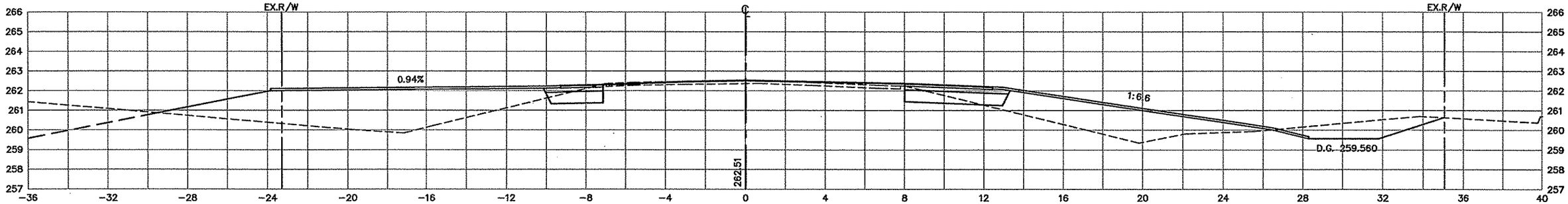
EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

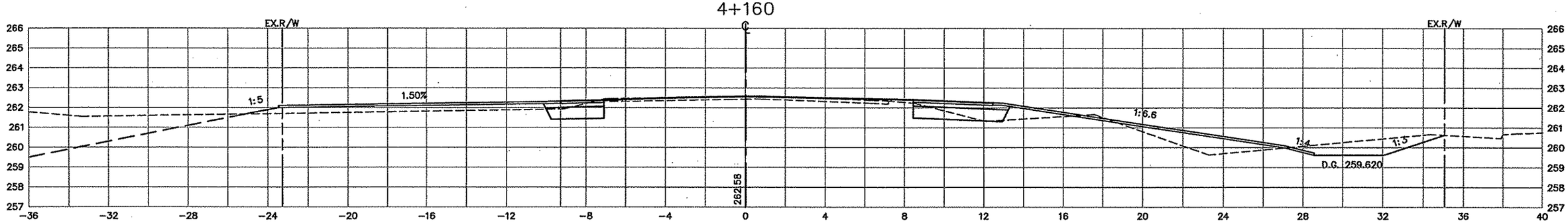
4+200



4+180



4+160



41 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS41
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 4+160.000 TO STATION 4+200.000

CITY PROJECT 98-20

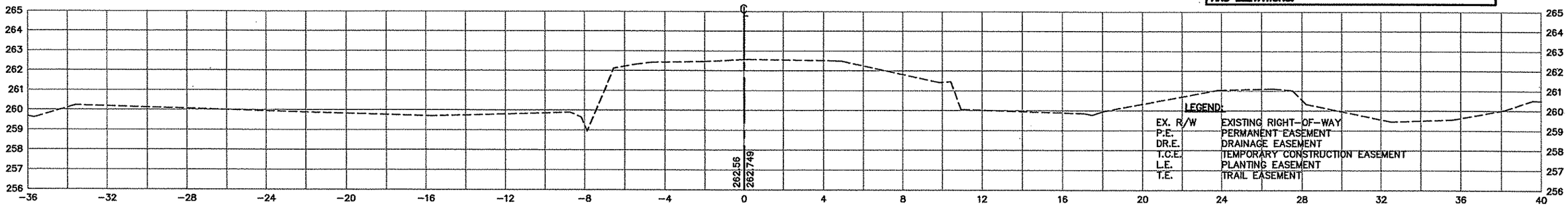
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 476 / 539

PLOT DATE: Jul 10, 2000 5:35pm DISK FILE NAME: (14.01h (Hardware Lock)) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs41.dwg

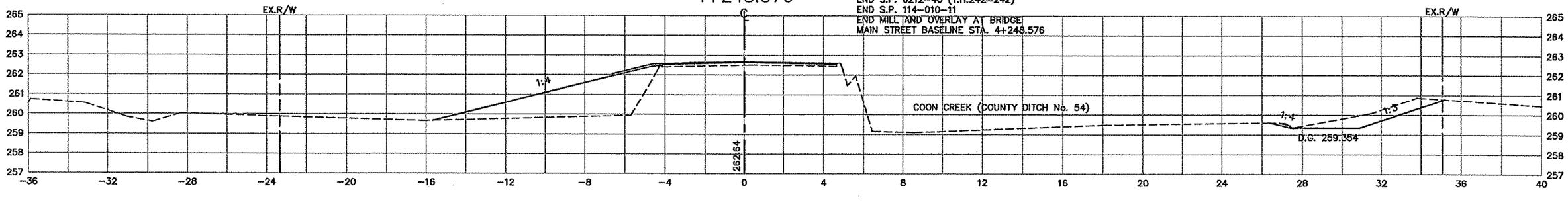
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

4+260

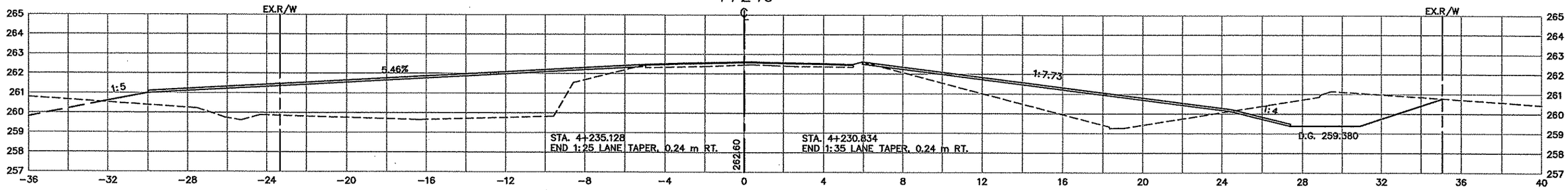


4+248.576

END S.P. 0212-40 (T.H.242=242)
END S.P. 114-010-11
END MILL AND OVERLAY AT BRIDGE
MAIN STREET BASELINE STA. 4+248.576

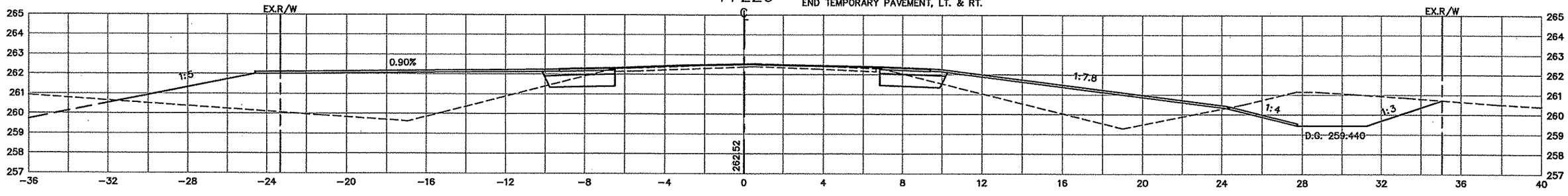


4+240



4+220

STA. 4+225.210
END TEMPORARY PAVEMENT, LT. & RT.



42 OF 42

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: 242EXS42
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.18
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 4+220.000 TO STATION 4+260.000

CITY PROJECT 98-20

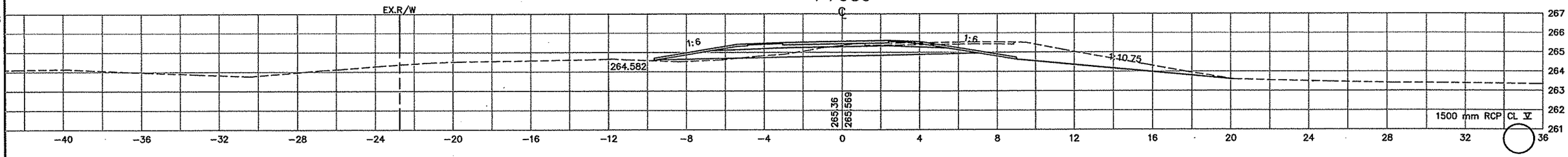
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 477 / 539

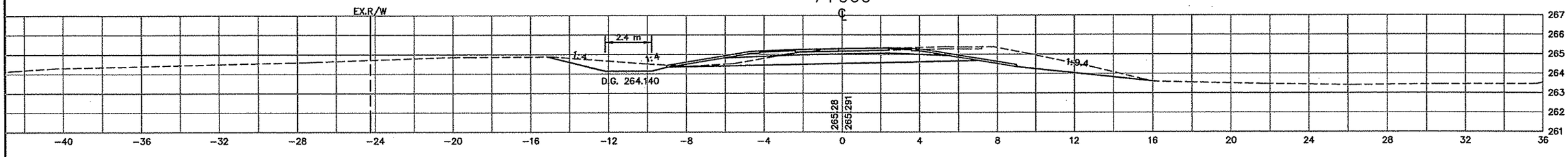
PLOT DATE: Jul 14, 2000 5:36pm DISK FILE NAME: (14.01h (Hardware Lock)) R:\33889\33889028\33889EXS\EC\PLAN-SHT\242exs42.dwg

SLEGD
APBOX
AMPA-XS

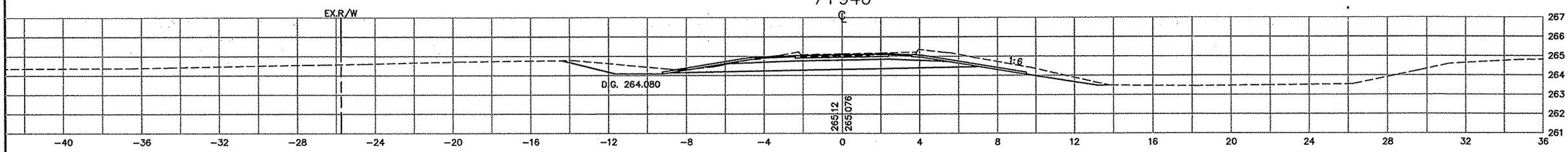
7+980



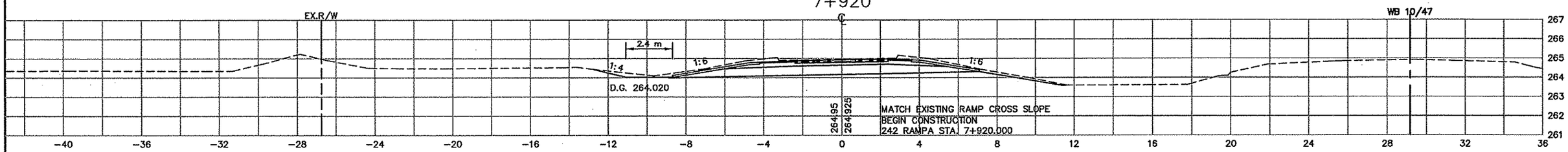
7+960



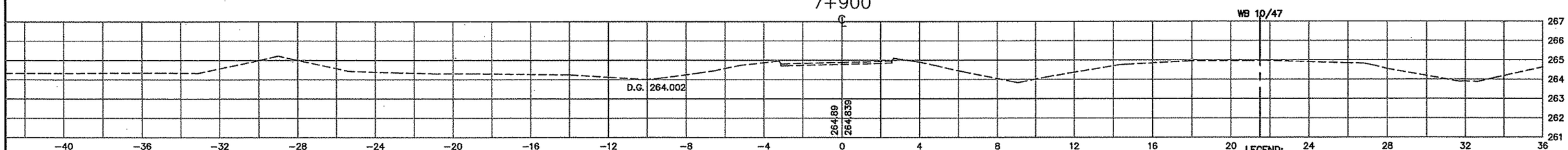
7+940



7+920



7+900



LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: A-XS01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
CROSS SECTIONS
STATION 7+900.000 TO STATION 7+980.000

CITY PROJECT 98-20

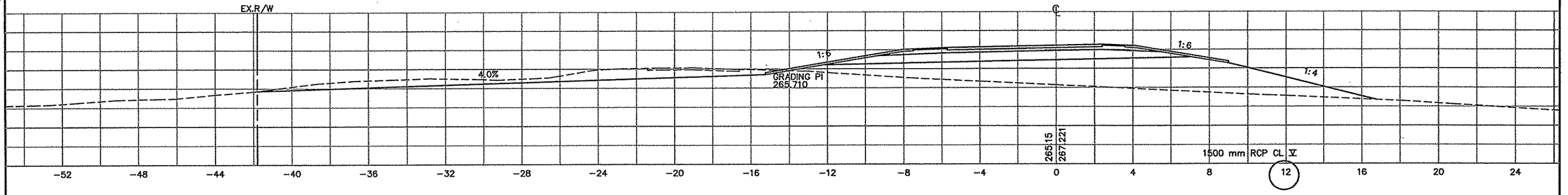
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 478 / 539

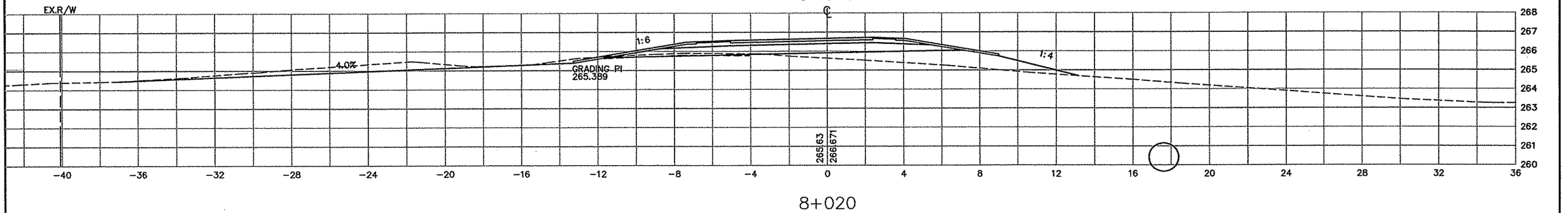
PLOT DATE: Dec 2, 99 6:43pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\33889028-xs01.dwg

SLEGD
APBOX
AMPA-XS

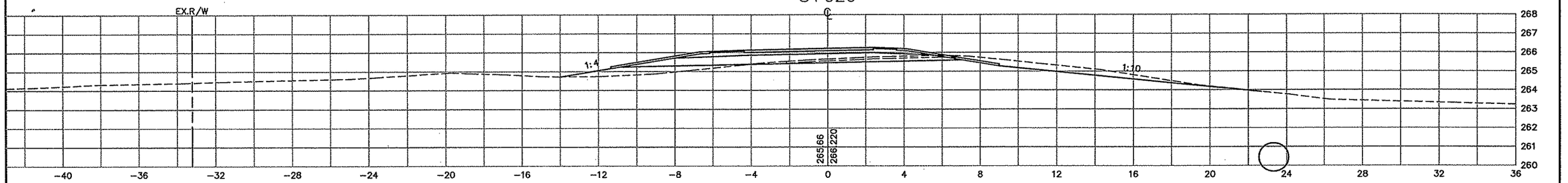
8+060



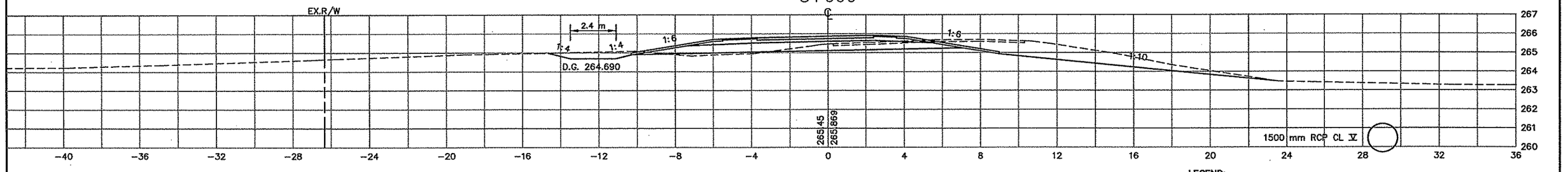
8+040



8+020



8+000



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: A-XS02
DATE: NOVEMBER 5, 1999

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DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
CROSS SECTIONS
STATION 8+000.000 TO STATION 8+060.000

CITY PROJECT 98-20

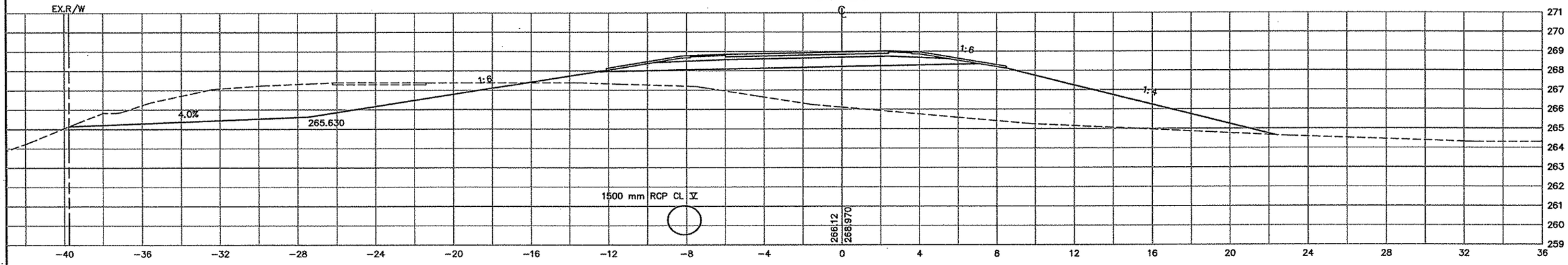
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 479 / 539

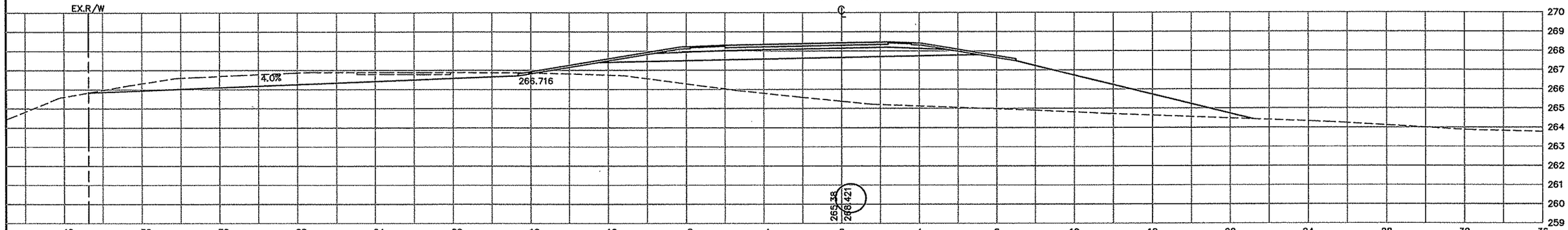
PLOT DATE: Mar 23, 2000 10:06am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\A-xs02.dwg

SLEGD
APBOX
AMPA-XS

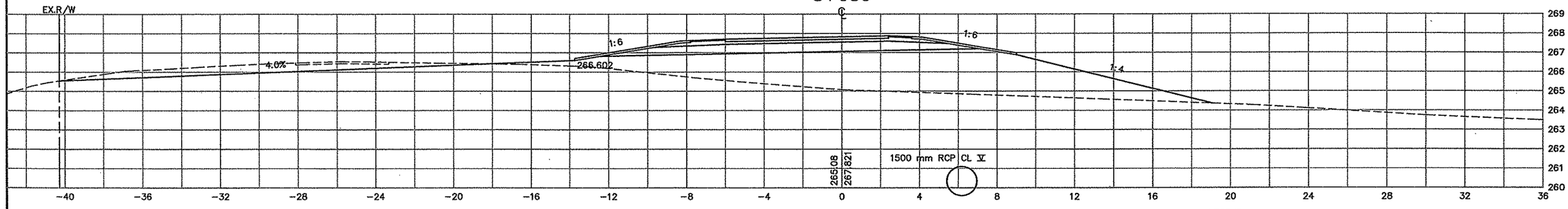
8+120



8+100



8+080



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: A-XS03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
CROSS SECTIONS
STATION 8+080.000 TO STATION 8+120.000

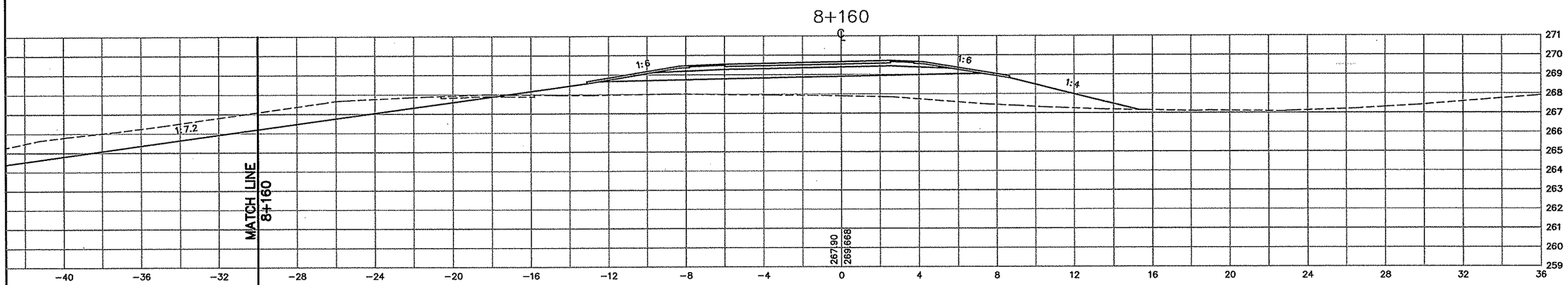
CITY PROJECT 98-20

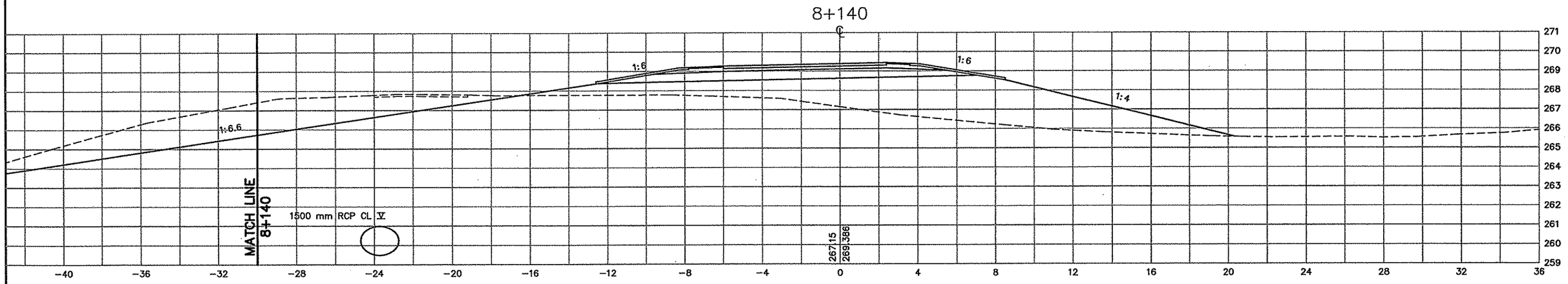
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 480 / 539

PLOT DATE: Dec 22, 1999 6:45pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\A-xs03.dwg

SLEGD
APBOX
AMPA-XS





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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: A-XS04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

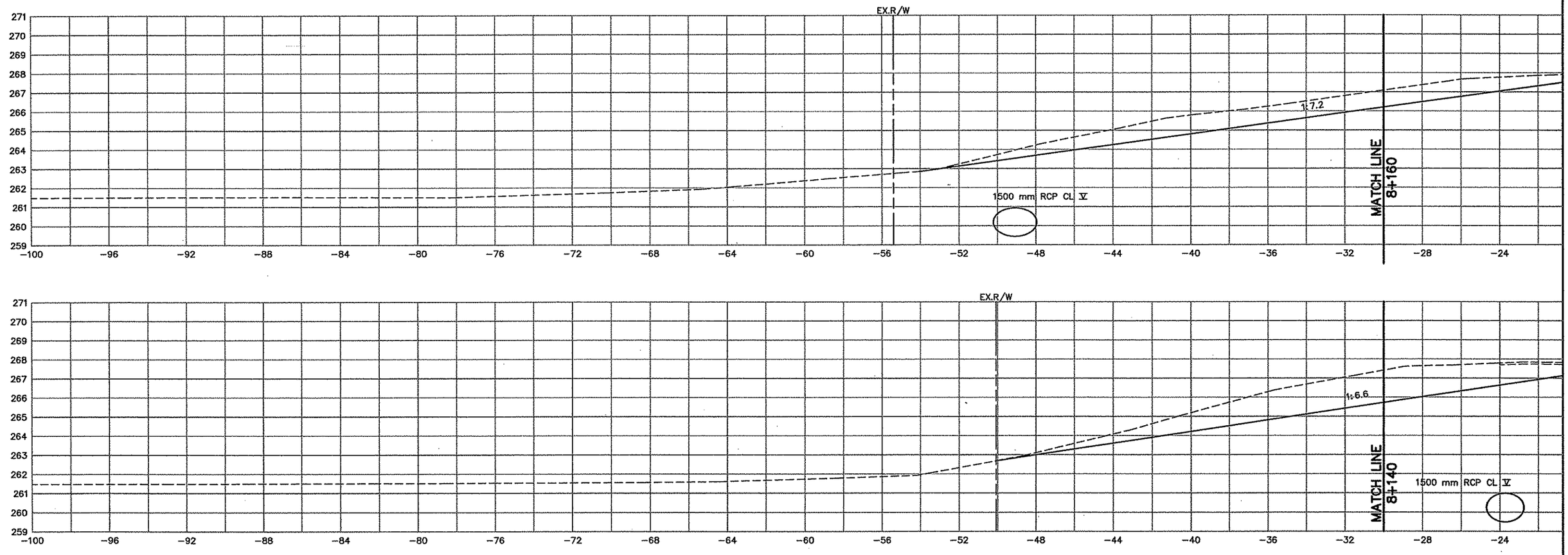
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
CROSS SECTIONS
STATION 8+140.000 TO STATION 8+160.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 481 / 539

PLOT DATE: Mar 2_,00 10:12am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL...RT\A-xs04.dwg



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: A-XS05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
CROSS SECTIONS
STATION 8+140.000 TO STATION 8+160.000

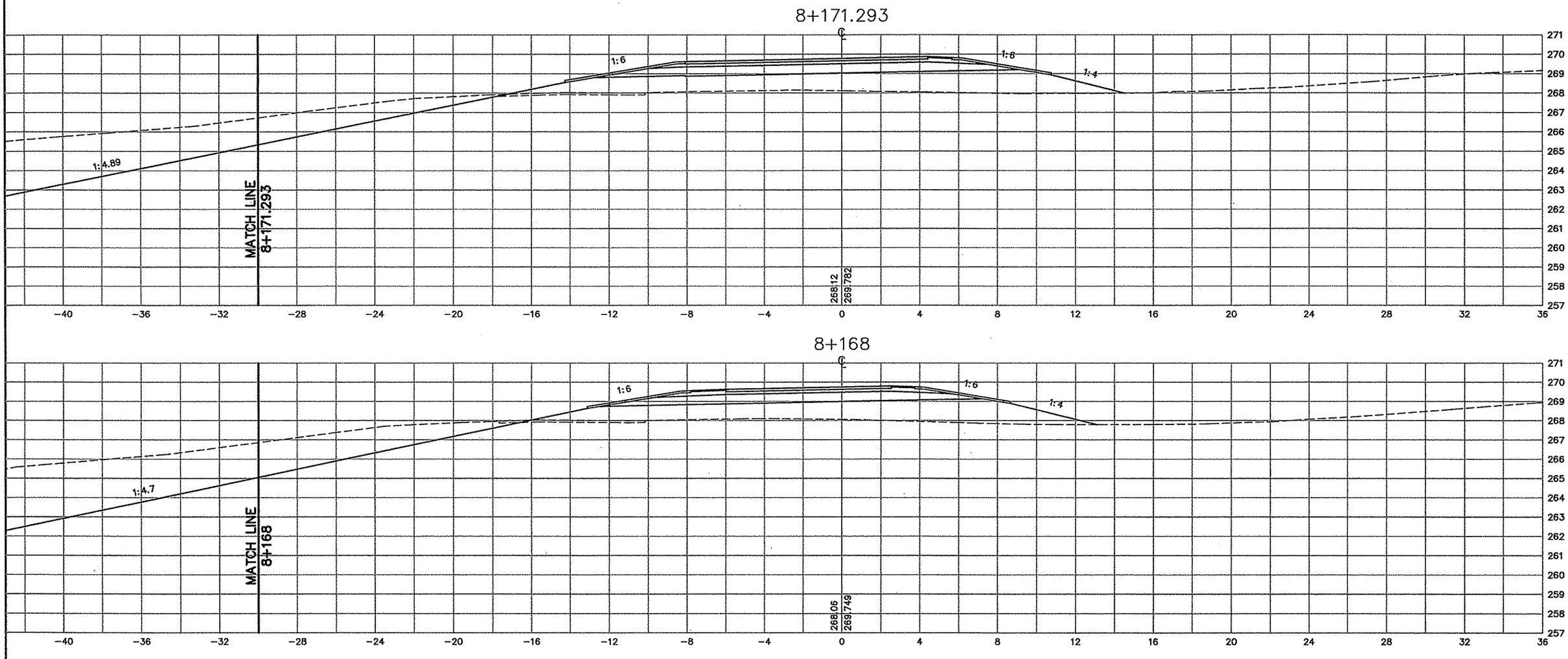
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 482 / 539

PLOT DATE: Dec 2..,.999 6:48pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL...SHT\A-xs05.dwg

SLEGD
APBOX
AMPA-XS



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

6 OF 8

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: A-XS06
DATE: NOVEMBER 5, 1999

minnesota metric
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DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
CROSS SECTIONS
STATION 8+168.000 TO STATION 8+171.293

CITY PROJECT 98-20

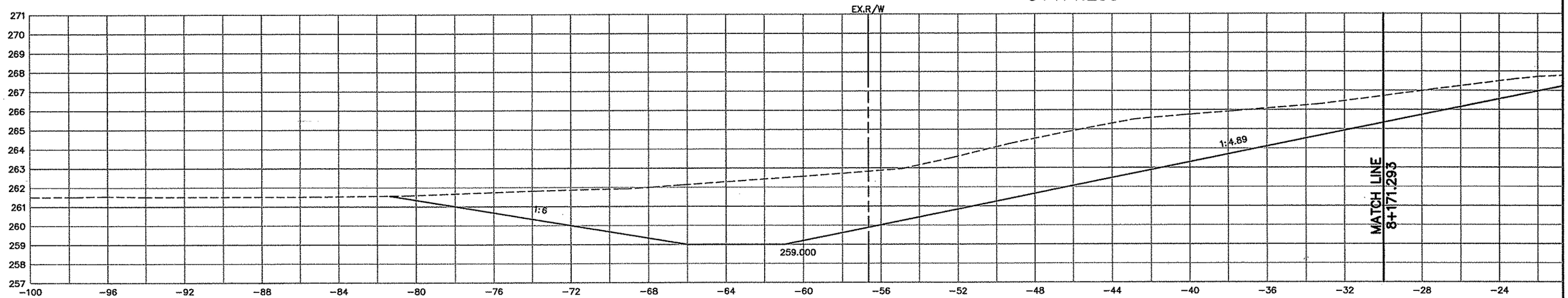
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 483 / 539

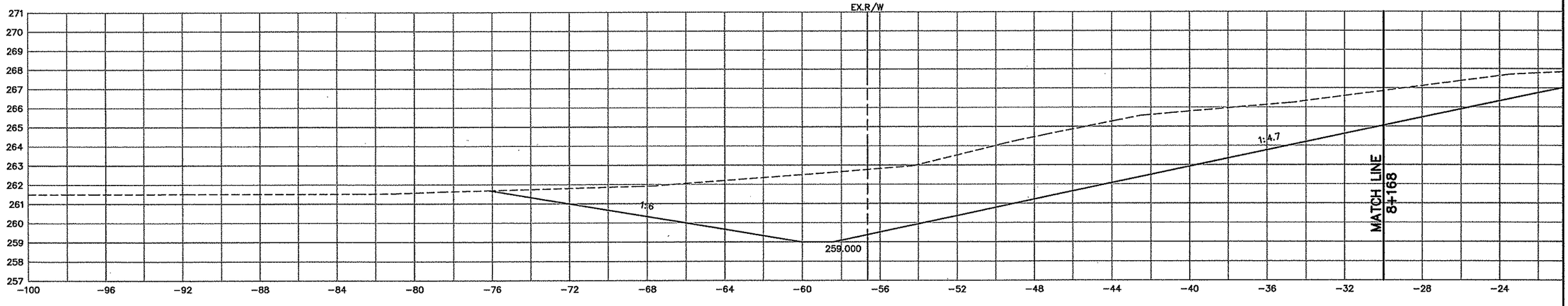
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SLEGD
APBOX
AMPA-XS

8+171.293



8+168



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED CROSS SECTION STATIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: A-XS07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
CROSS SECTIONS
STATION 8+168.000 TO STATION 8+171.293

CITY PROJECT 98-20

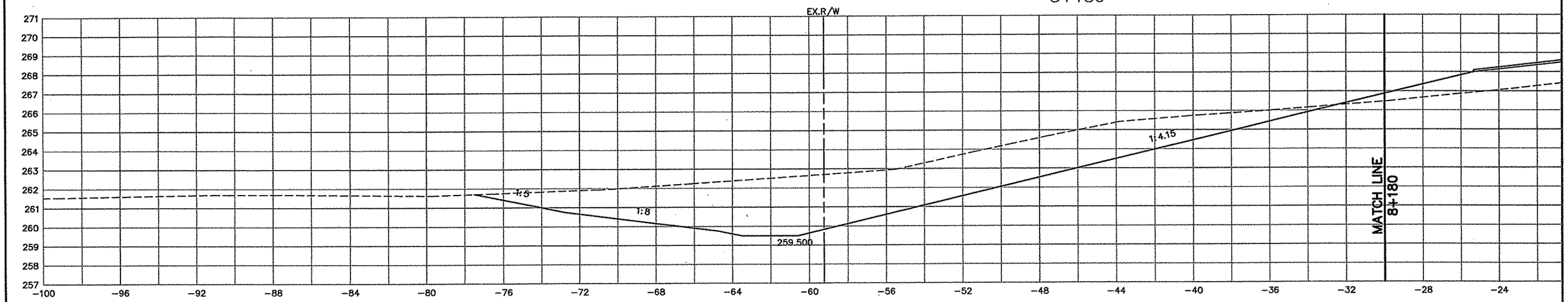
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 484 / 539

PLOT DATE: Dec 2, 1999 6:49pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\A-xs07.dwg

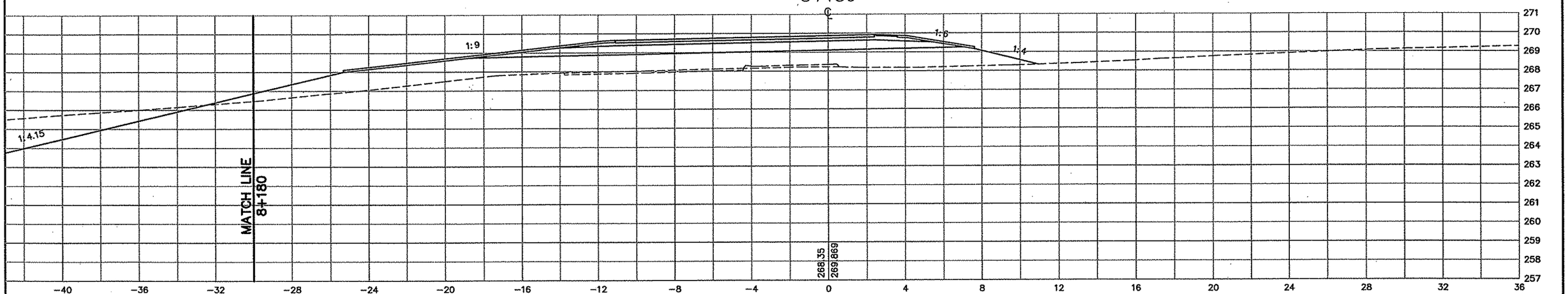
SLEGD
APBOX
AMPA-XS

8+180



MATCH WB MAIN ST. STA. 3+516.124, 7.20 m LT.
END CONSTRUCTION 242 RAMP A
242 RAMPA STA. 8+182.376

8+180



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

8 OF 8

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED CROSS SECTION STATION
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: A-XS08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
CROSS SECTIONS
STATION 8+180.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 485 / 539

PLOT DATE: Dec 2..,.999 6:5pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA...SHT\A-xs08.dwg

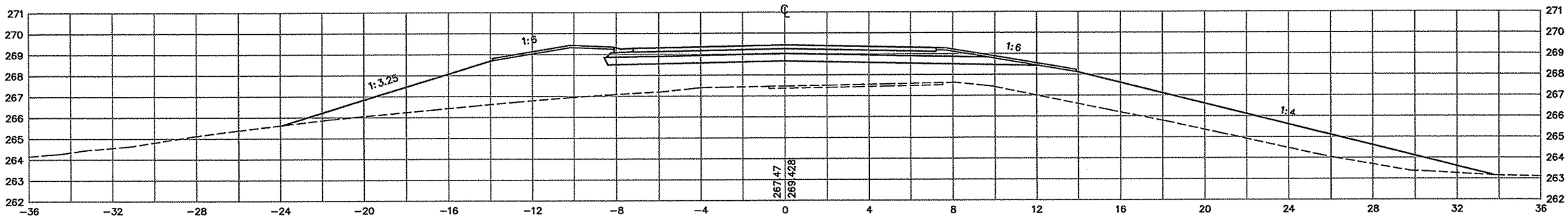
AMPB–XS

LEGEND:

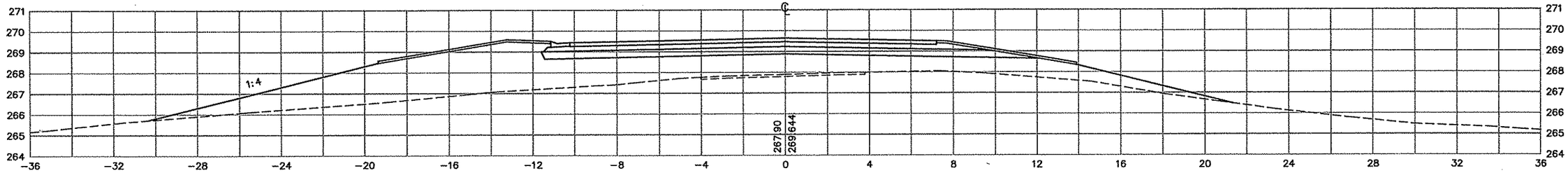
EX. R/W	EXISTING RIGHT–OF–WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

AS–BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

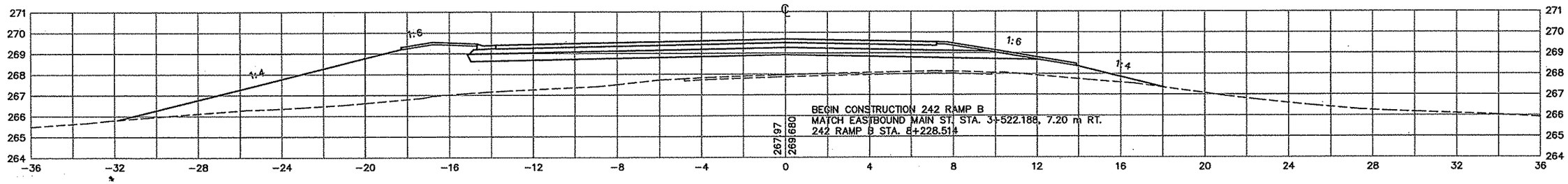
8+260



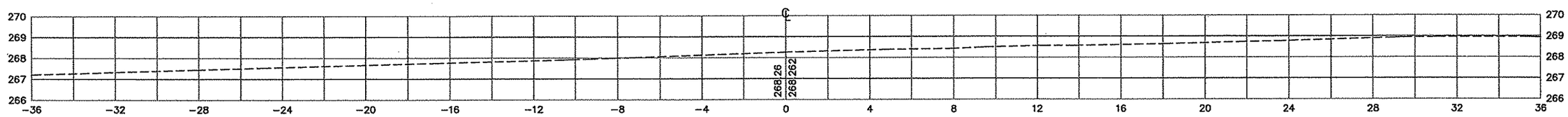
8+240



8+236.444



8+220



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: B–XSBDR
DATE: NOVEMBER 5, 1999

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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(612)370–1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B
CROSS SECTIONS
STATION 8+220.000 TO STATION 8+260.000

CITY PROJECT 98–20

S.P. 0212–40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 486 / 539

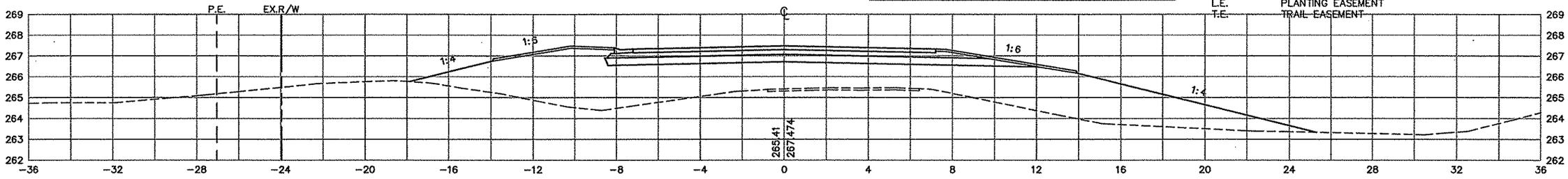
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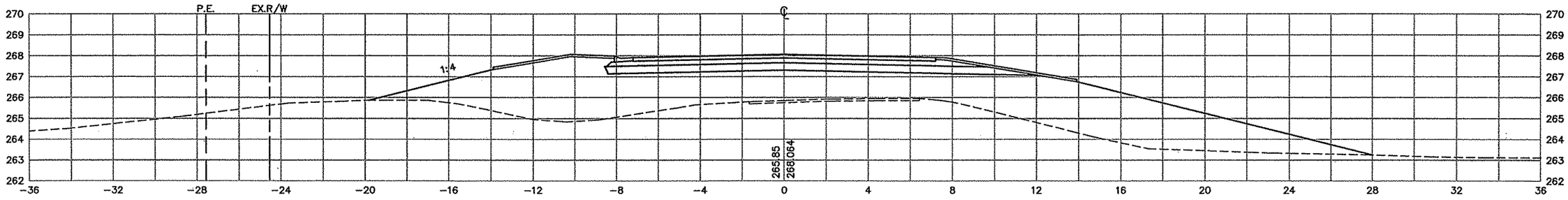
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

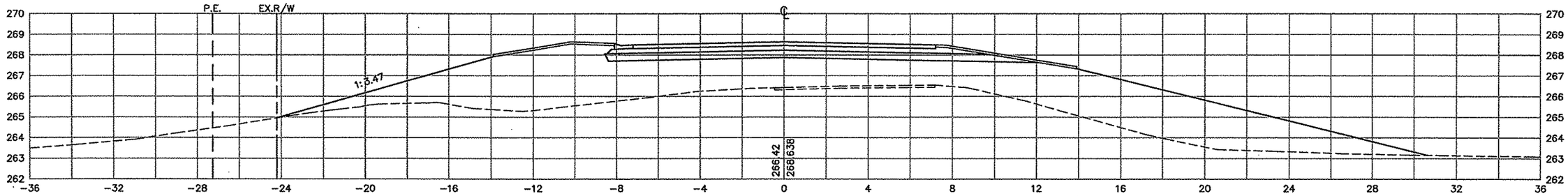
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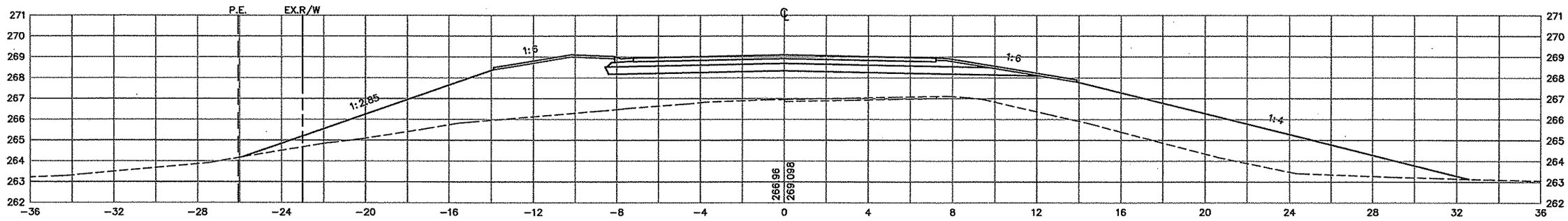
8+320



8+300



8+280



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: B-XSBDR
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B
CROSS SECTIONS
STATION 8+280.000 TO STATION 8+340.000

CITY PROJECT 98-20

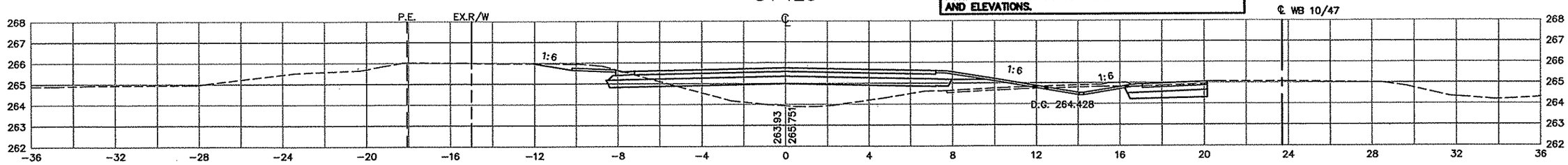
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 487 / 539

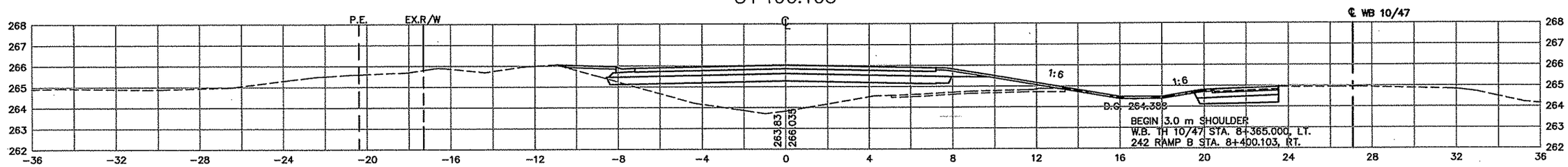
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AMPB-XS

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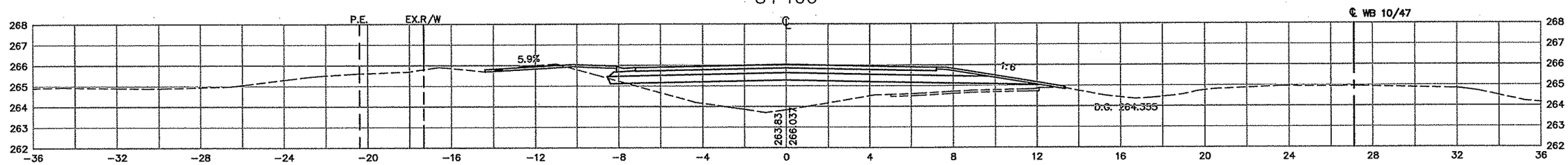
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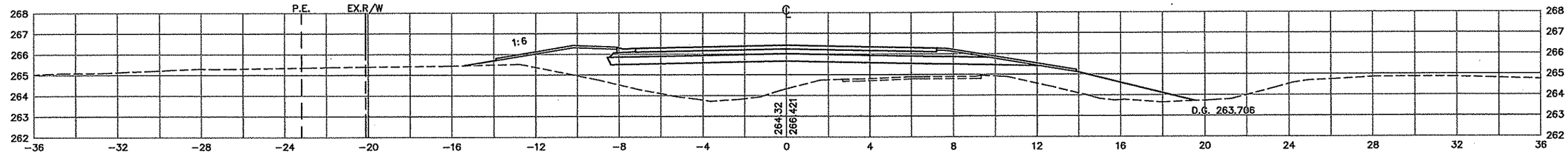
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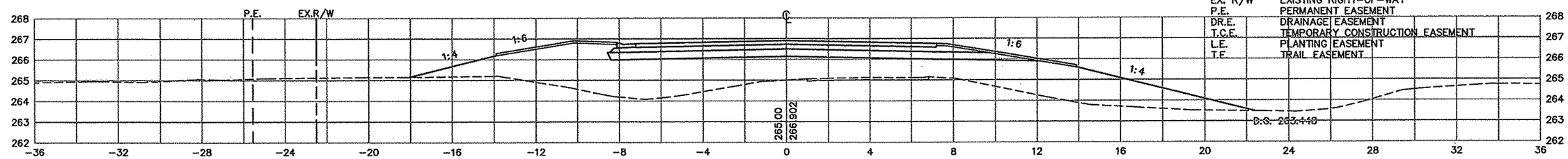
8+400



8+380



8+360



LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: B-XSBDR
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B
CROSS SECTIONS
STATION 8+360.000 TO STATION 8+420.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 488 / 539

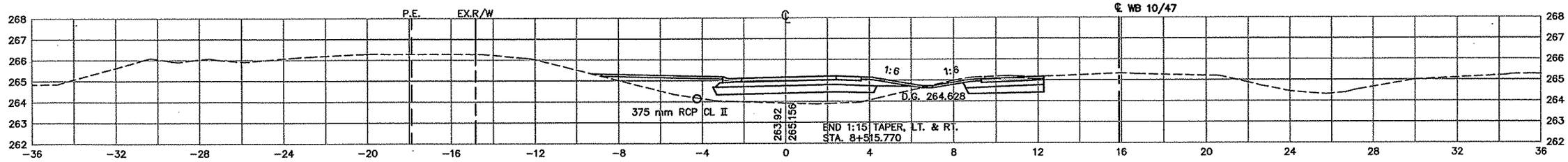
PLOT DATE: Dec 2, ...99 6:54pm DISK FILE NAME: (14.01) R:\33889\3388928\33889E\XSEC\PLA...HT\B-xsbdr.dwg

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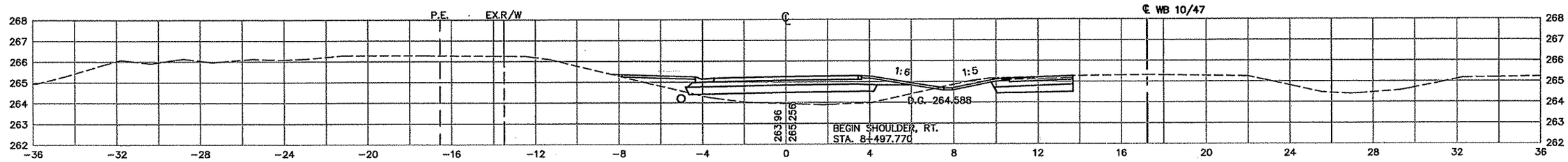
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

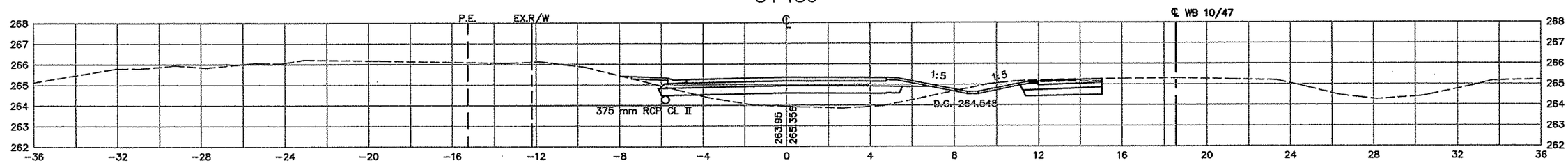
8+520



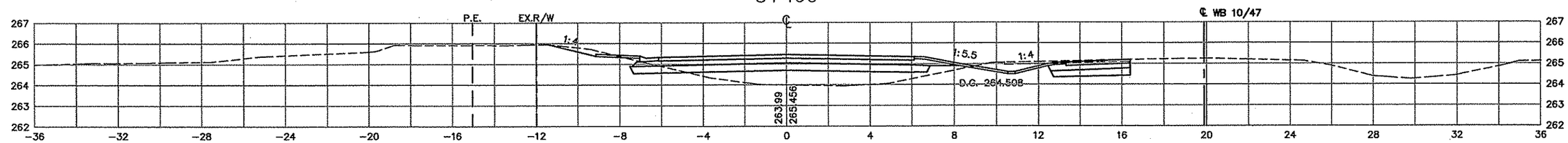
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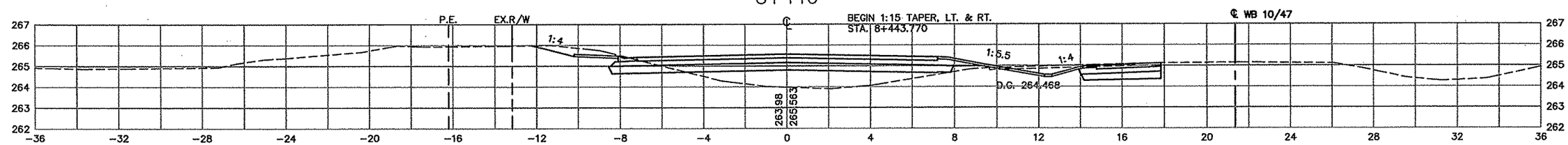
8+480



8+460



8+440



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: B-XSBDR
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.15

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B
CROSS SECTIONS
STATION 8+440.000 TO STATION 8+520.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 489 / 539

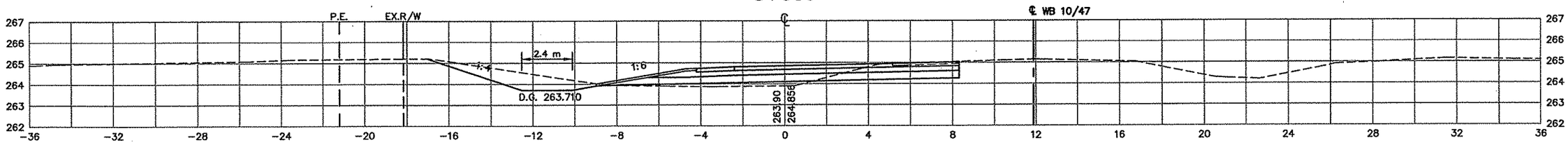
PLOT DATE: Dec 2, ...99 6:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL...HT\B-xsbdr.dwg

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

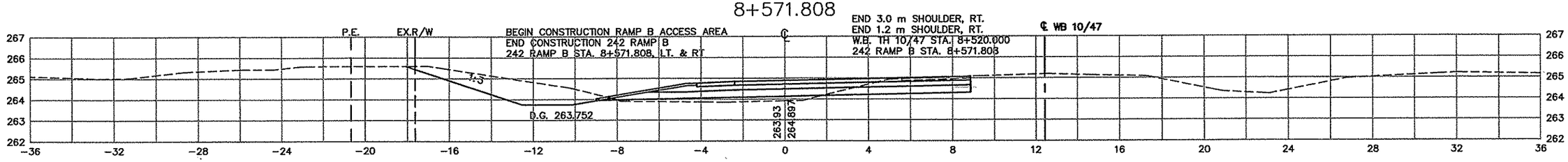
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

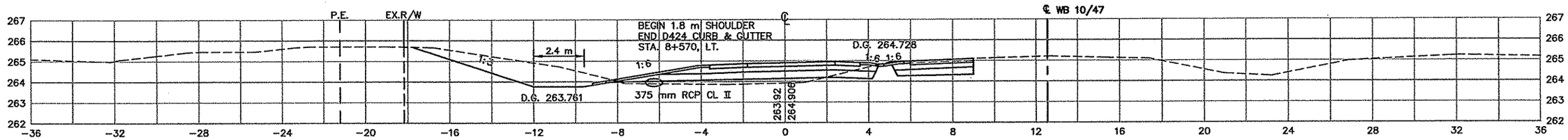
8+580



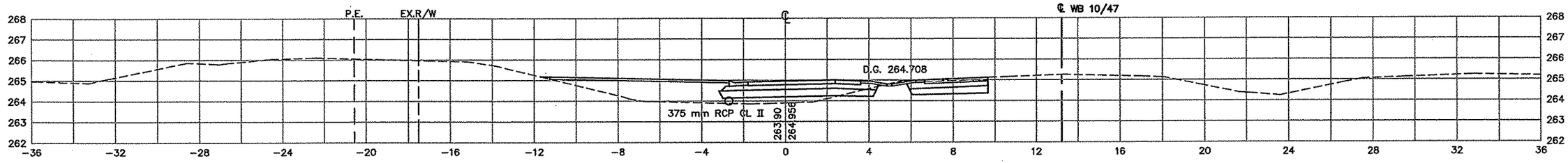
8+571.808



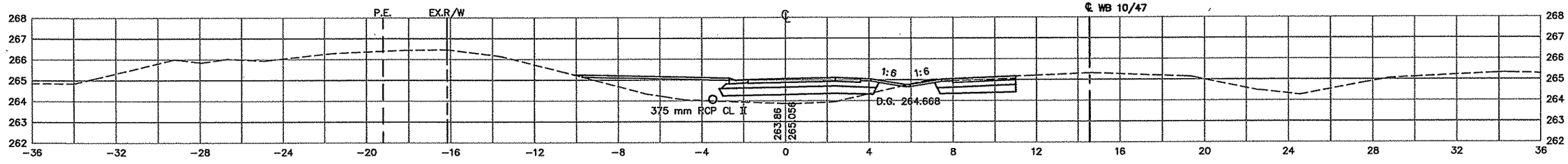
8+570



8+560



8+540



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: B-XSBDR
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B, RAMP B ACCESS AREA
CROSS SECTIONS
STATION 8+540.000 TO STATION 8+580.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 490 / 539

PLOT DATE: Dec 22, 1999 6:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\B-xsbdr.dwg

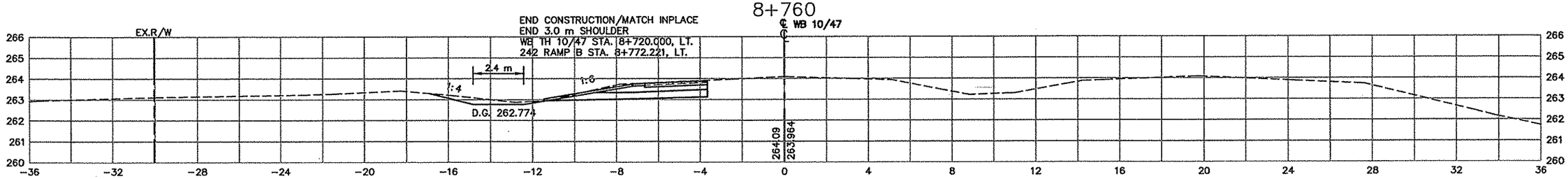
F DRAWINGS
MPB-XS

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

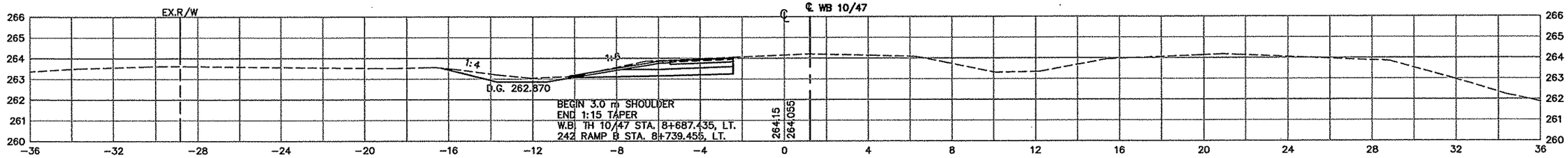
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

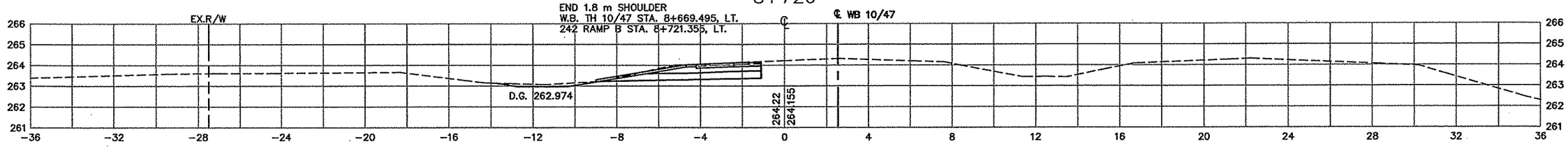
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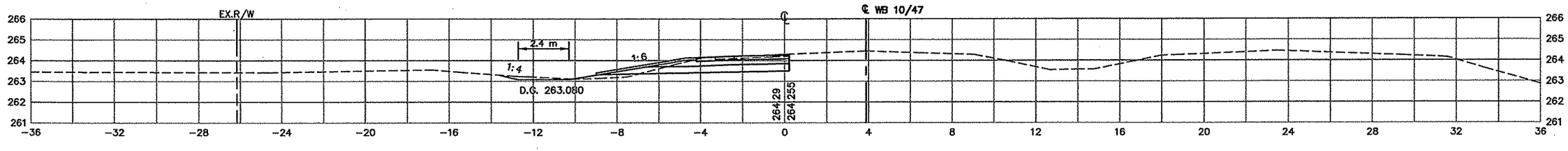
8+740



8+720



8+700



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: B-XSBDR
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1376 (FAX)

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B ACCESS AREA
CROSS SECTIONS
STATION 8+700.000 TO STATION 8+758.221

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 492 / 539

PLOT DATE: Dec 2...99 6:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL...HT\B-xsbdr.dwg

F DRAWINGS
IPC-XS

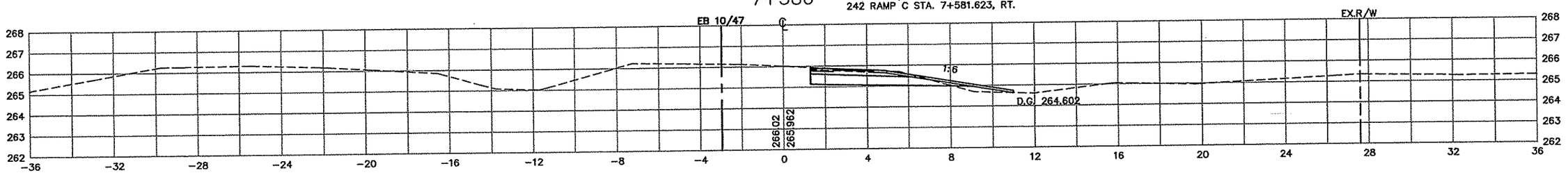
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

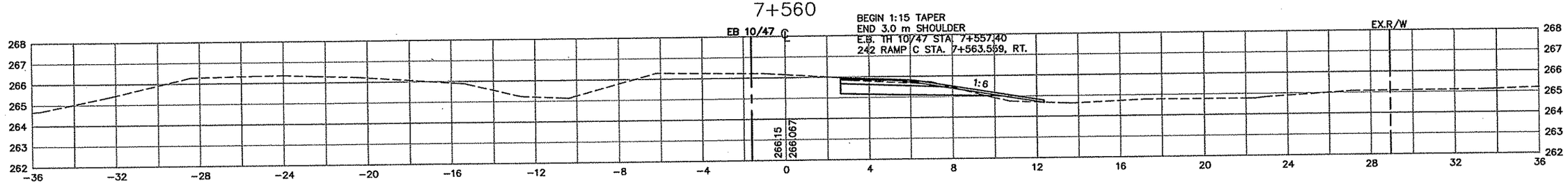
7+580

BEGIN 1.8 m SHOULDER
E.B. TH 10/47 STA. 7+575.322
242 RAMP C STA. 7+581.623, RT.

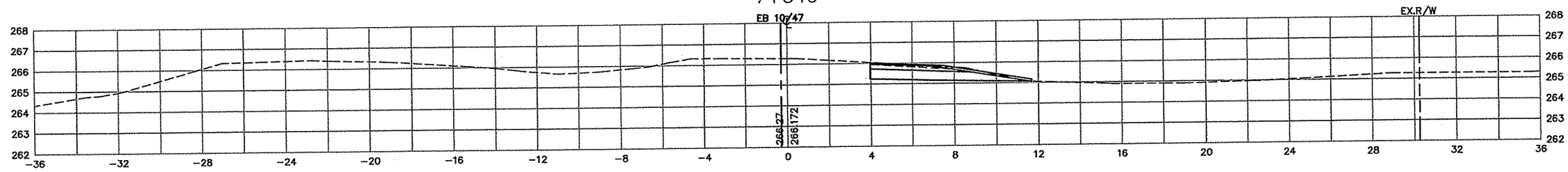


7+560

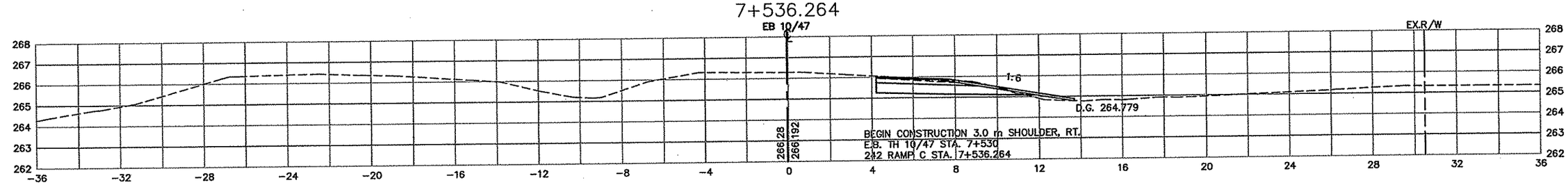
BEGIN 1:15 TAPER
END 3.0 m SHOULDER
E.B. TH 10/47 STA. 7+557.40
242 RAMP C STA. 7+563.569, RT.



7+540



7+536.264



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: RAMPC-XS
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C ACCESS AREA
CROSS SECTIONS
STATION 7+536.264 TO STATION 7+580.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 493 / 539

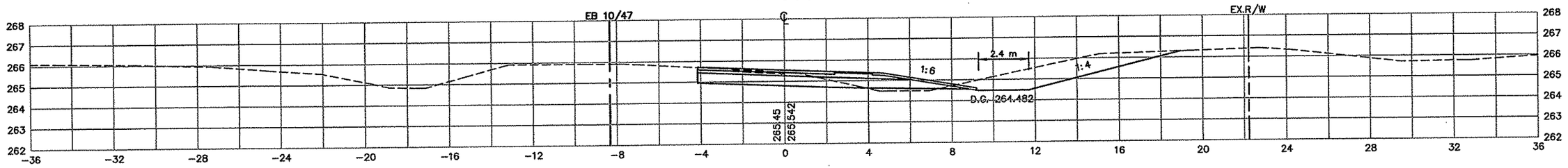
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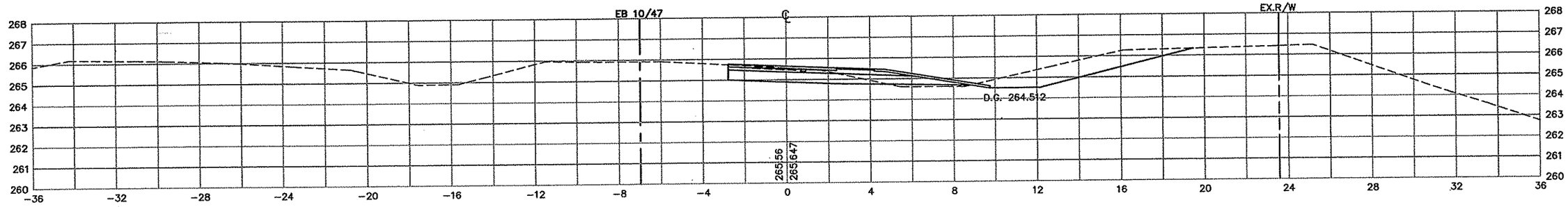
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

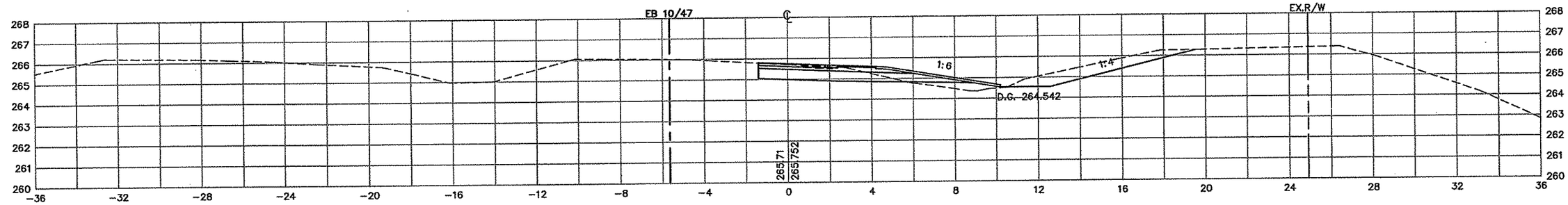
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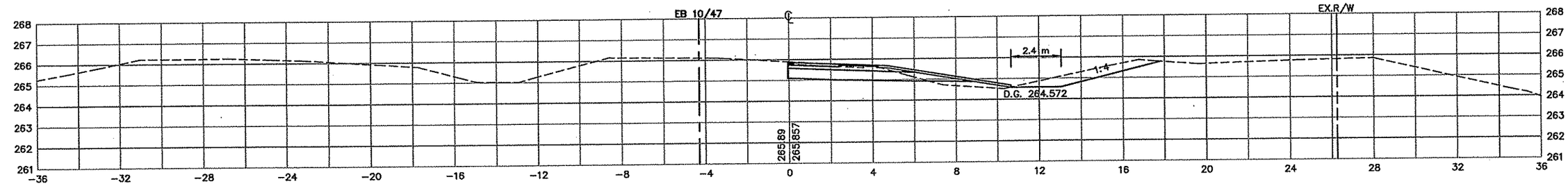
7+640



7+620



7+600



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: RAMPC-XS
DATE: NOVEMBER 5, 1999

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C ACCESS AREA
CROSS SECTIONS
STATION 7+600.000 TO STATION 7+660.000

CITY PROJECT 98-20

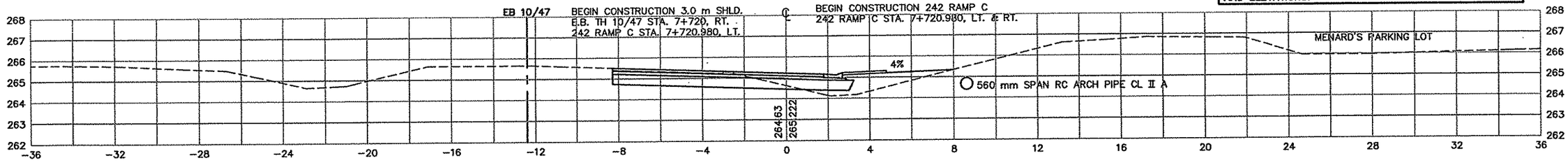
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 494 / 539

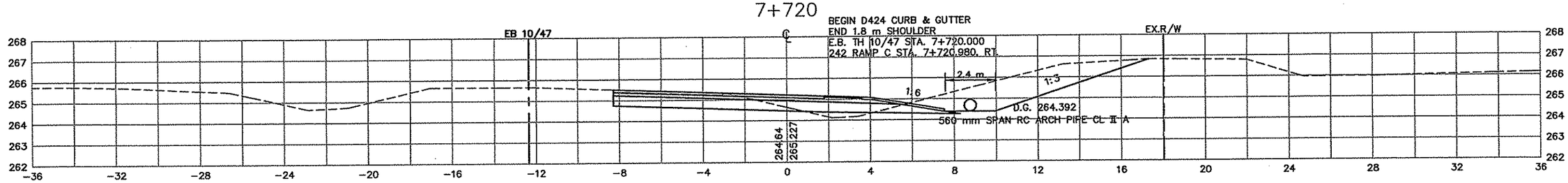
PLOT DATE: Apr 11, 2000 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\C-xsbdr.dwg

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

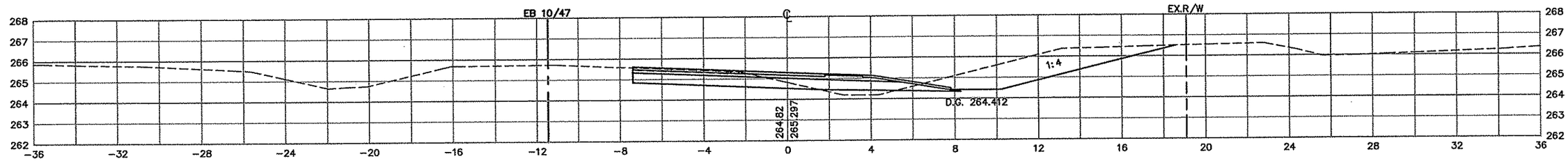
7+720.980



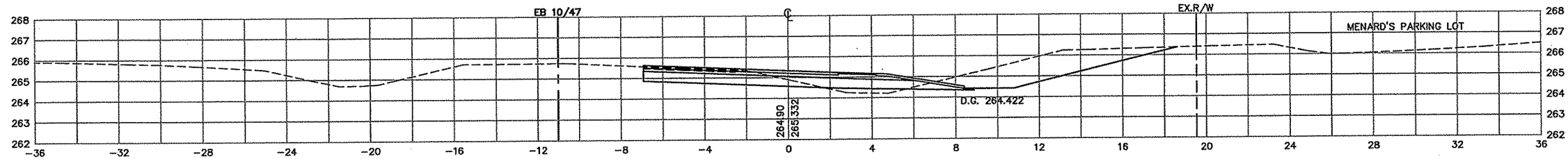
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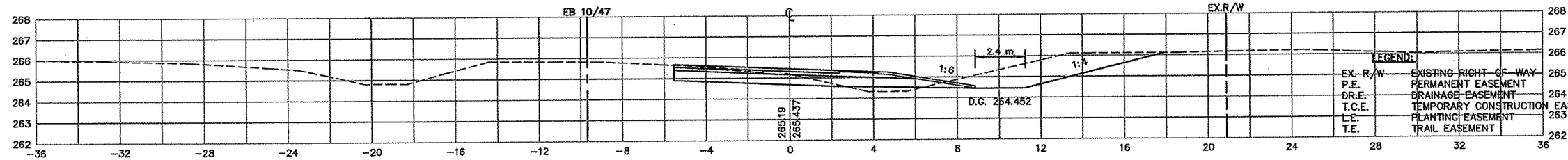
7+706.683



7+700



7+680



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	4/12/00	MOD.REQ.#8: MODIFIED LOCATION FES C1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: RAMPC-XS
DATE: NOVEMBER 5, 1999

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BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP C ACCESS AREA, 242 RAMP C
CROSS SECTIONS
STATION 7+680.000 TO STATION 7+720.980

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 495 / 539

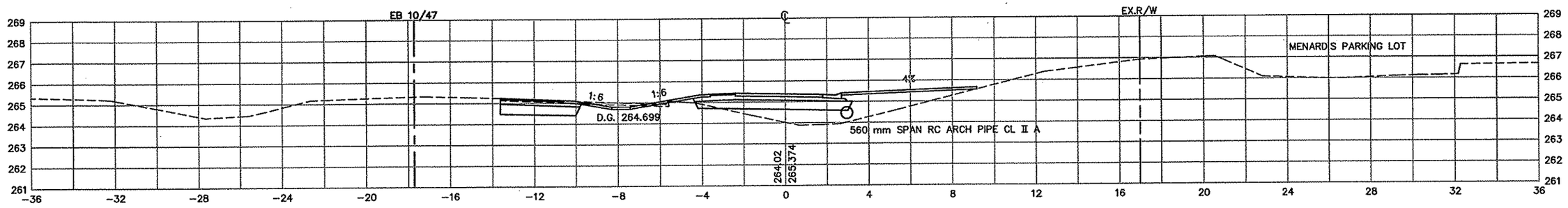
PLOT DATE: Apr 11, ,00 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA...HT\C-xsbdr.dwg
MPC-XS

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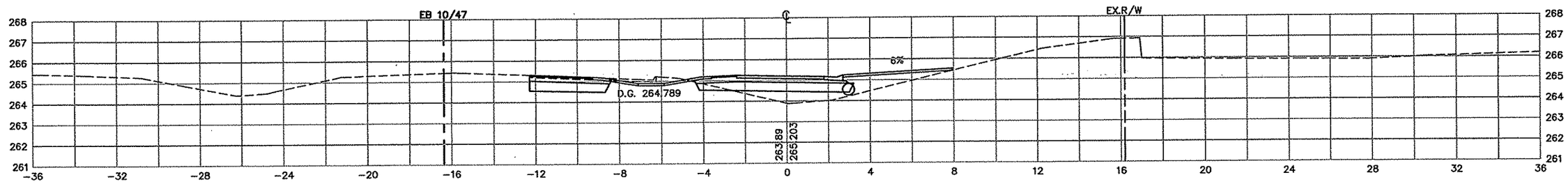
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

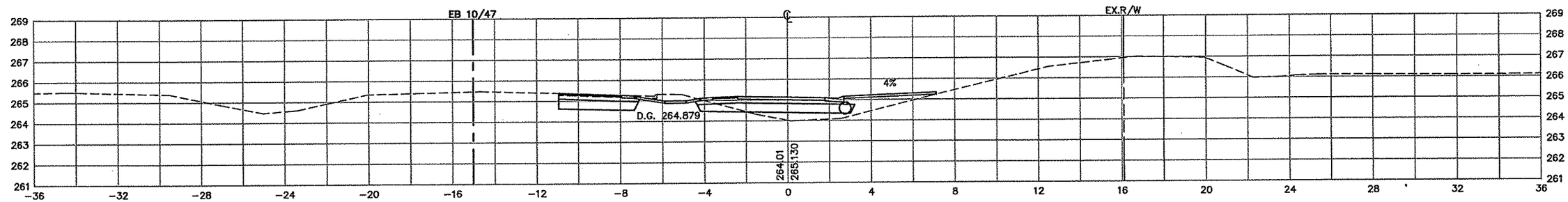
7+800



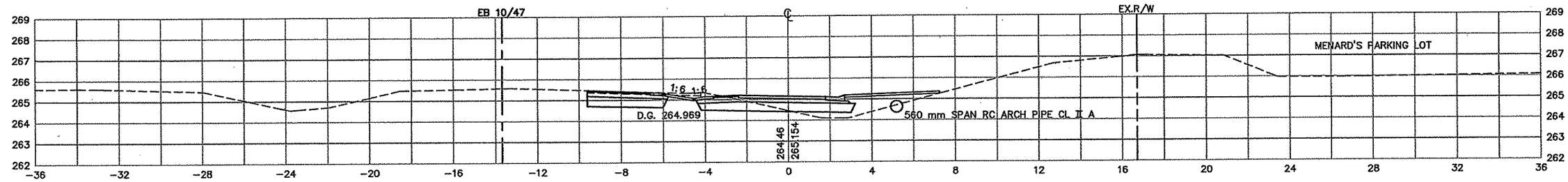
7+780



7+760



7+740



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	4/12/00	MOD.REQ.#9: MODIFIED LOCATION OF FES C1
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PDB
DWG. NAME: RAMPC-XS
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C
CROSS SECTIONS
STATION 7+740.000 TO STATION 7+800.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 496 / 539

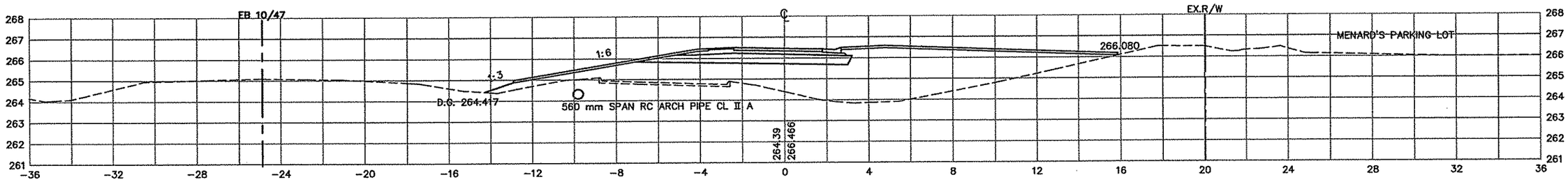
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AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

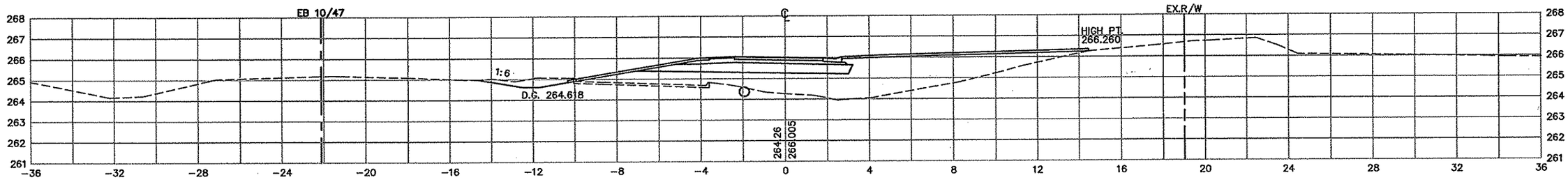
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

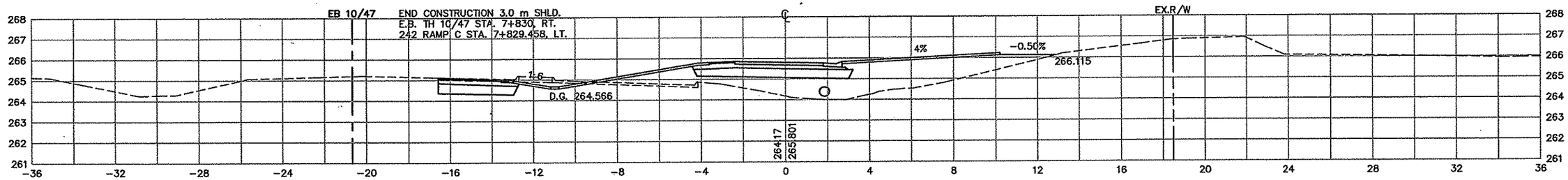
7+860



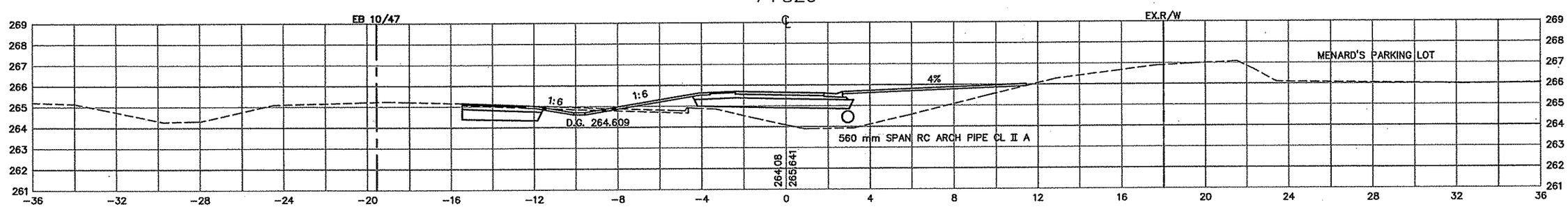
7+840



7+829.458



7+820



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: RAMPC-XS
DATE: NOVEMBER 5, 1999

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BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C
CROSS SECTIONS
STATION 7+820.000 TO STATION 7+860.000

CITY PROJECT 98-20

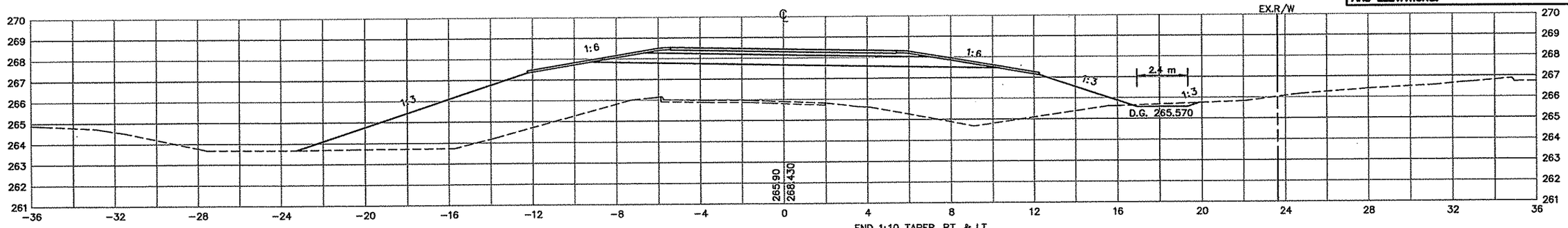
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 497 / 539

PLOT DATE: Apr 1... JO 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL...HT\C-xsbdr.dwg

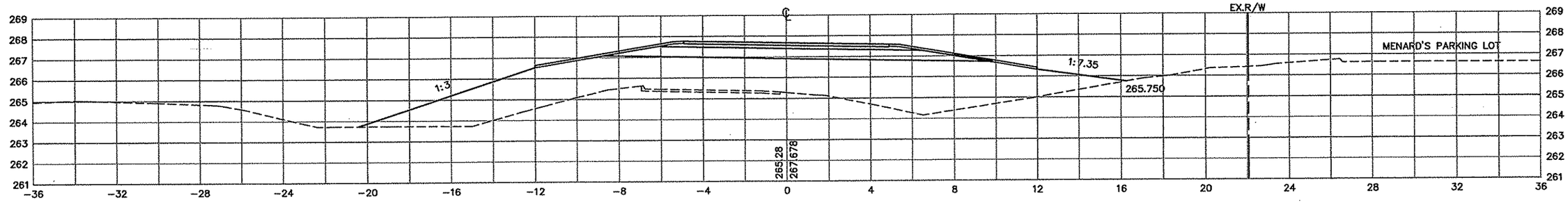
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

7+920



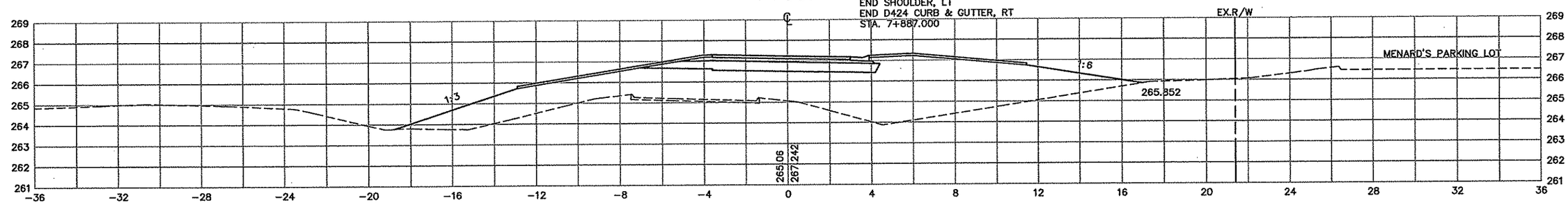
END 1:10 TAPER, RT. & LT.
STA. 7+905.000

7+900

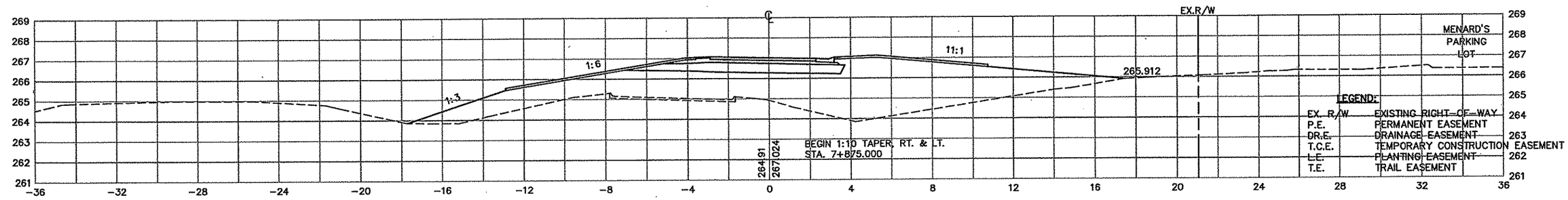


7+887

END SHOULDER, LT
END D424 CURB & GUTTER, RT
STA. 7+887.000



7+880



BEGIN 1:10 TAPER, RT. & LT.
STA. 7+875.000

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: RAMPC-XS
DATE: NOVEMBER 5, 1999

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C
CROSS SECTIONS
STATION 7+880.000 TO STATION 7+920.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 498 / 539

PLOT DATE: Apr 11, ...00 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA...HT\C-xsbdr.dwg

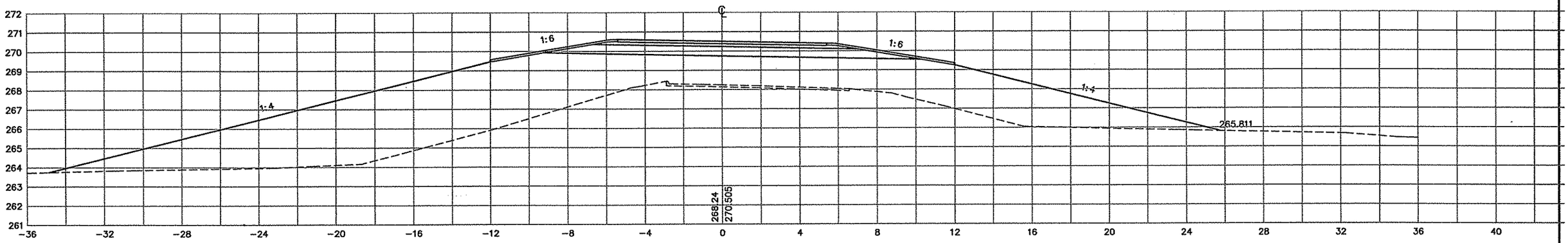
MPC-XS

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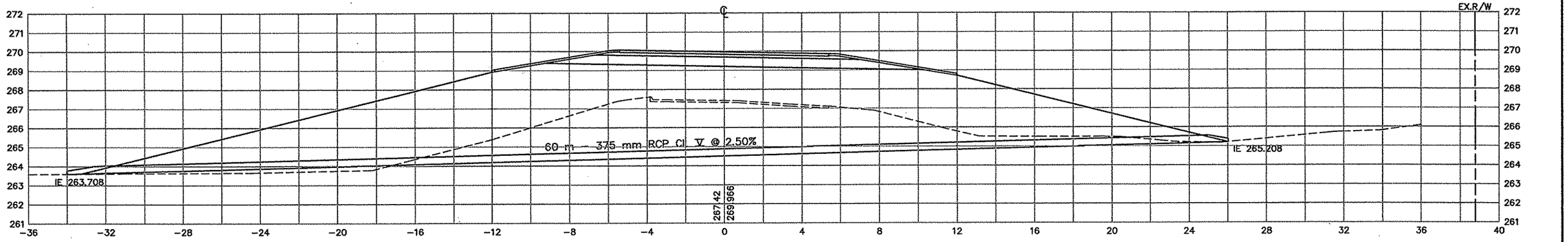
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

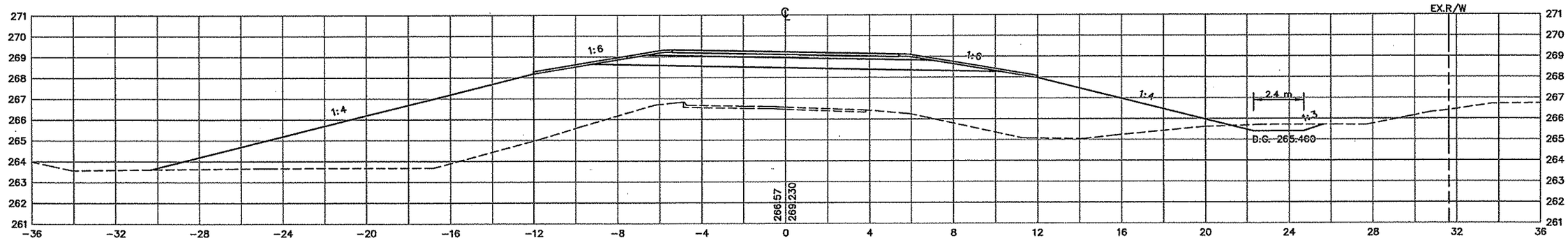
7+980



7+960



7+940



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	
DRAWN BY: IKR	DESIGN BY: KPK
CHKD. BY: KPK/PDB	DWG. NAME: RAMPC-XS
DATE: NOVEMBER 5, 1999	

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C
CROSS SECTIONS
STATION 7+940.000 TO STATION 7+980.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 499 / 539

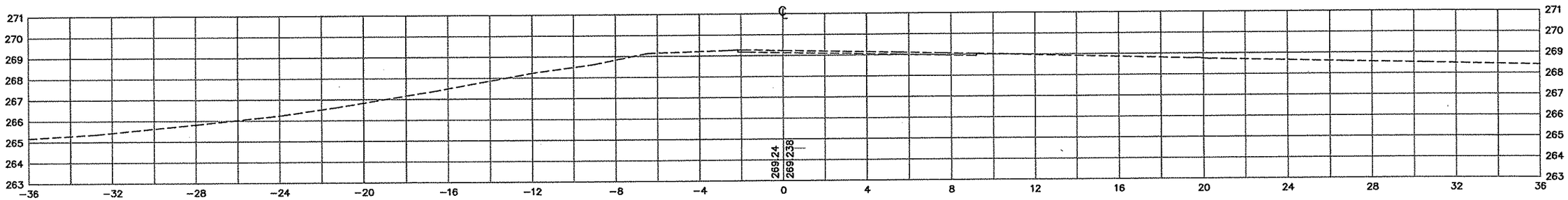
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AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

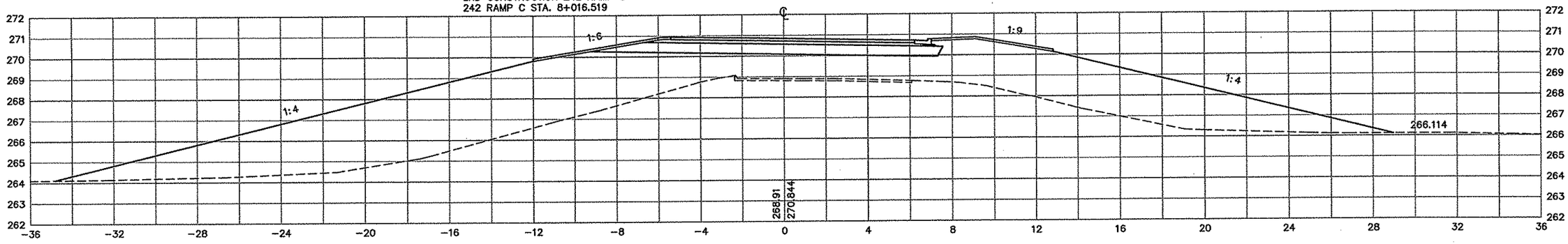
EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

8+020



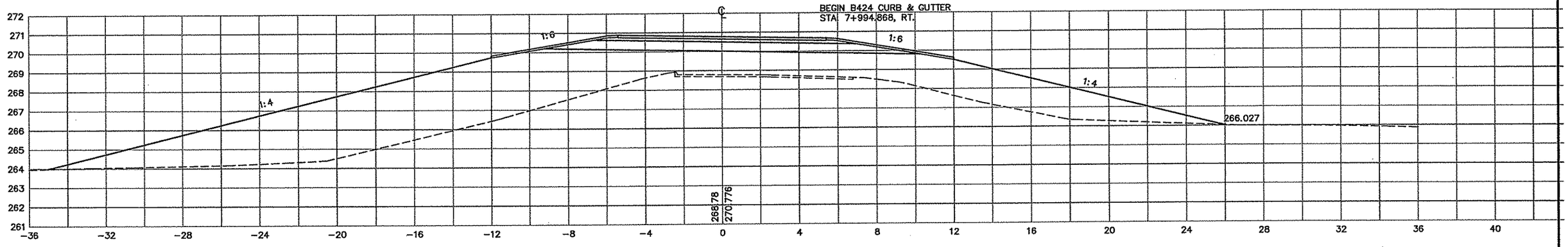
MATCH WB MAIN STREET STA. 3+265.322, 7.20 m LT.
END CONSTRUCTION 242 RAMP C
242 RAMP C STA. 8+016.519

8+000



7+994.868

BEGIN B424 CURB & GUTTER
STA. 7+994.868, RT.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PDB | DWG. NAME: RAMPC-XS
DATE: NOVEMBER 5, 1999

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C
CROSS SECTIONS
STATION 7+994.868 TO STATION 8+020.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 500 / 539

PLOT DATE: Apr 11, 00 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\RAMPC-xsbdr.dwg

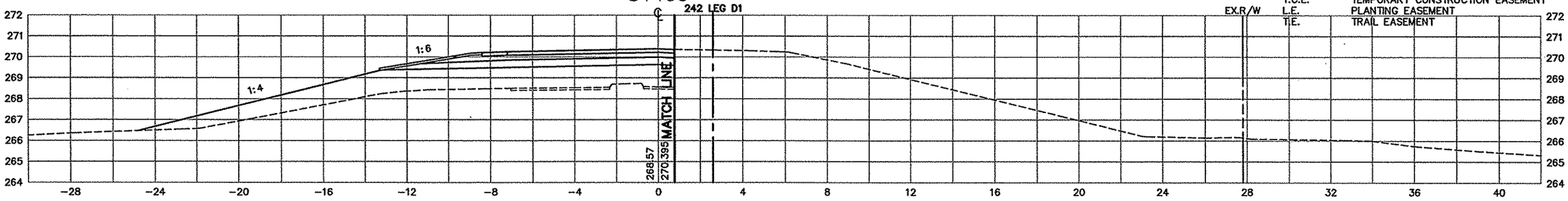
: DRAWINGS
MPD-XS

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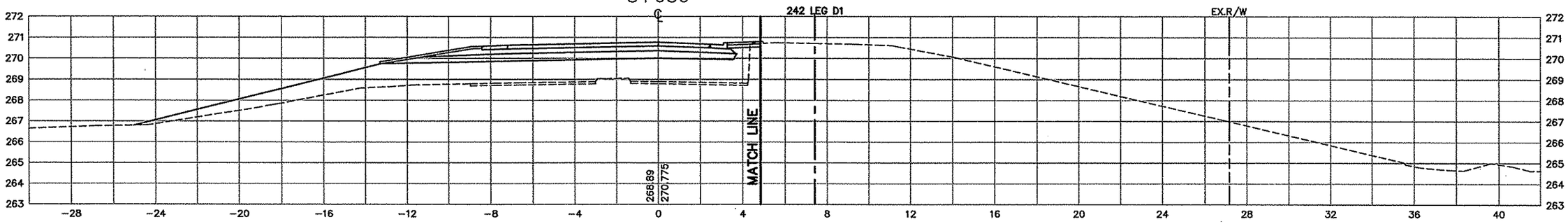
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

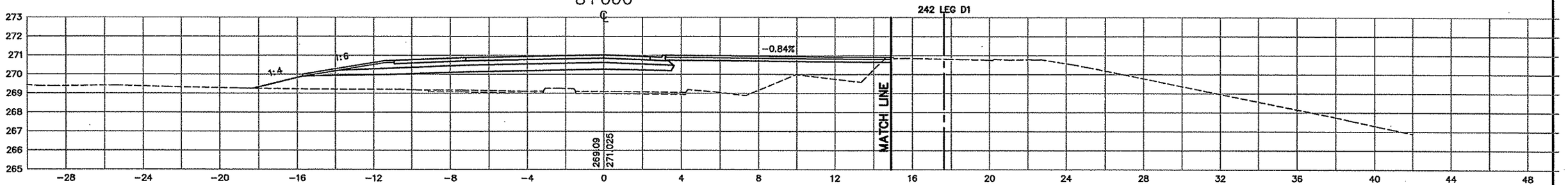
8+100



8+080

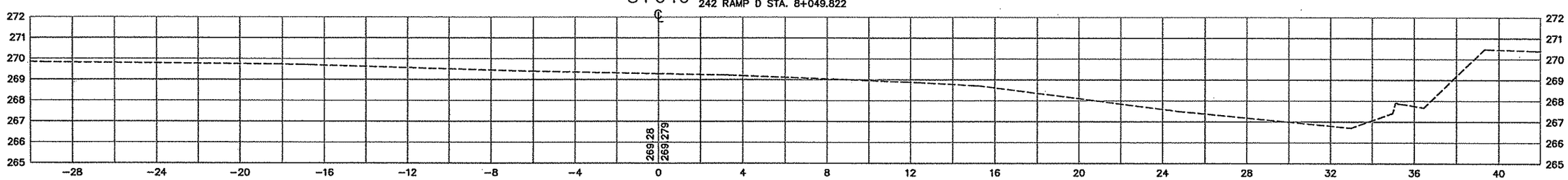


8+060



MATCH EB MAIN STREET STA. 3+275.076, 7.20 m RT.
BEGIN CONSTRUCTION 242 RAMP D
242 RAMP D STA. 8+049.822

8+040



1 OF 13

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
CROSS SECTIONS
STATION 8+040.000 TO STATION 8+100.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 501 / 539

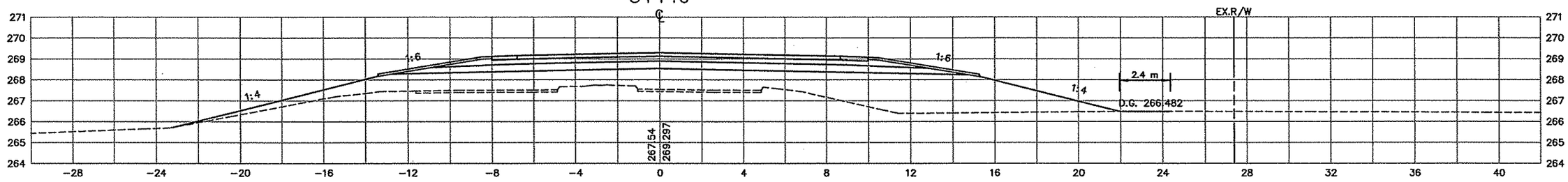
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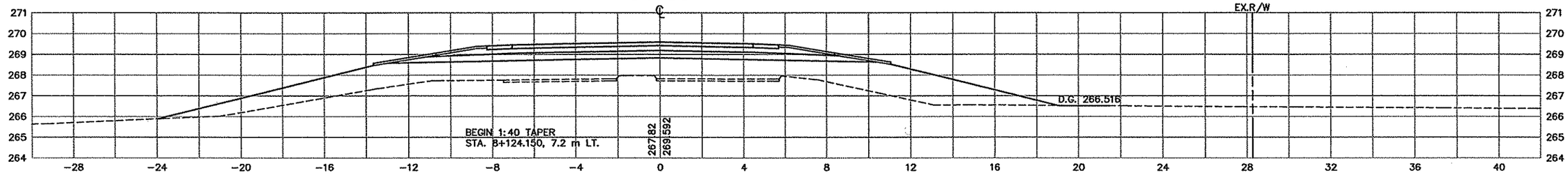
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

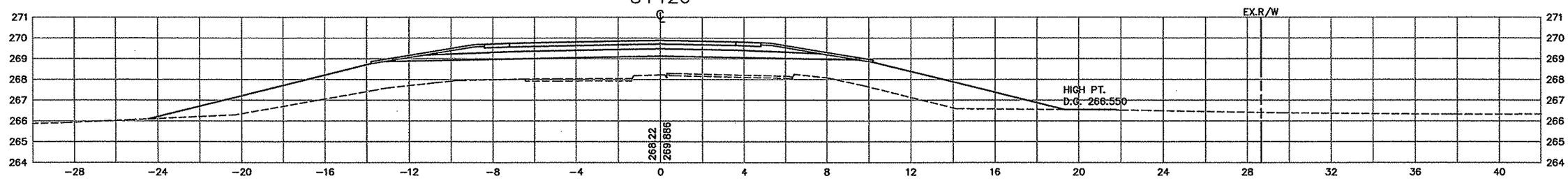
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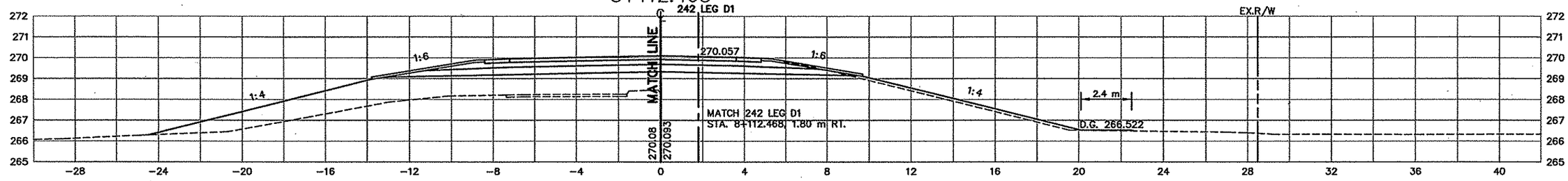
8+130



8+120



8+112.468



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
CROSS SECTIONS
STATION 8+112.468 TO STATION 8+140.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 502 / 539

PLOT DATE: Apr 11, ...00 2:57pm DISK FILE NAME: (14,01) R:\33889\33889028\33889E\XSEC\PLA...rT\D-xsbdr.dwg

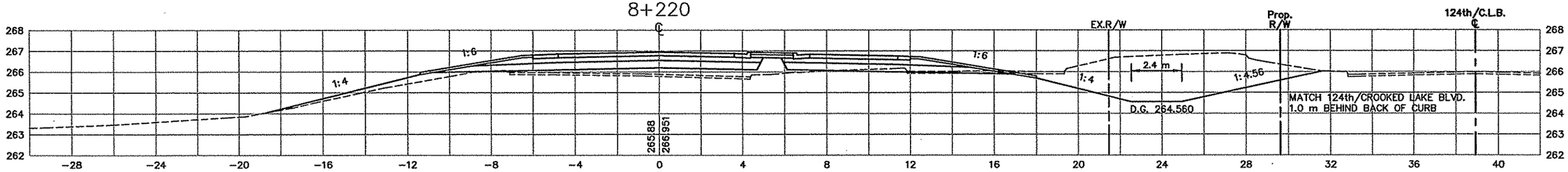
DRAWINGS
MPD-XS

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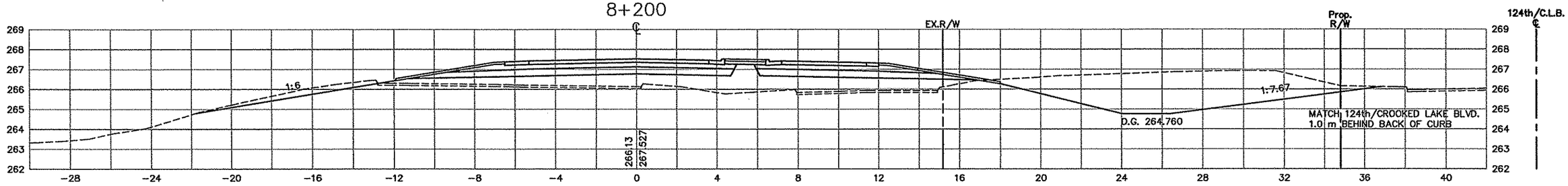
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

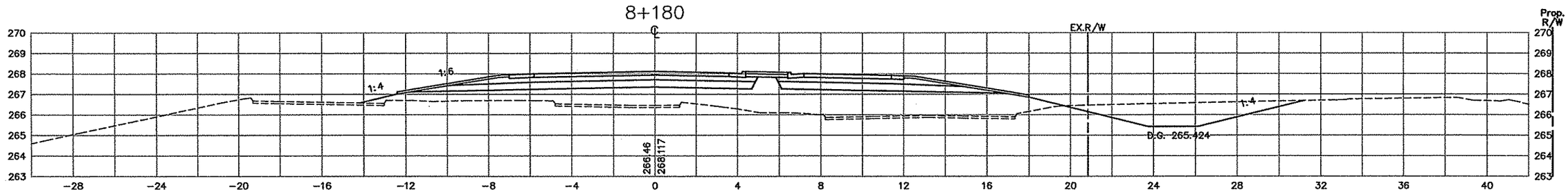
8+220



8+200

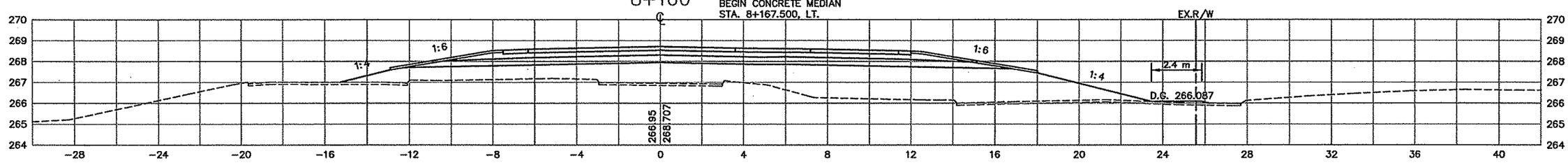


8+180



8+160

BEGIN HOV LANE
BEGIN CONCRETE MEDIAN
STA. 8+167.500, LT.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	MOVED APPROACH NOSE FROM 8+160 TO 8+167.500
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Fields
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
CROSS SECTIONS
STATION 8+160.000 TO STATION 8+220.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

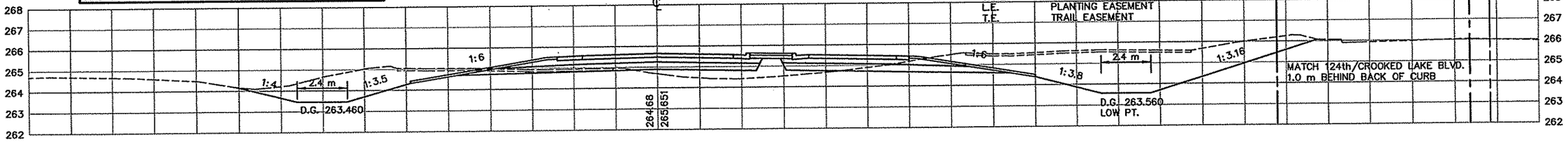
SHEET NO. 503 / 539

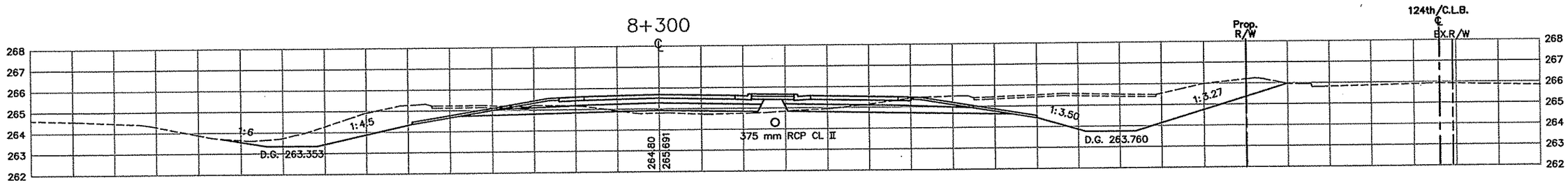
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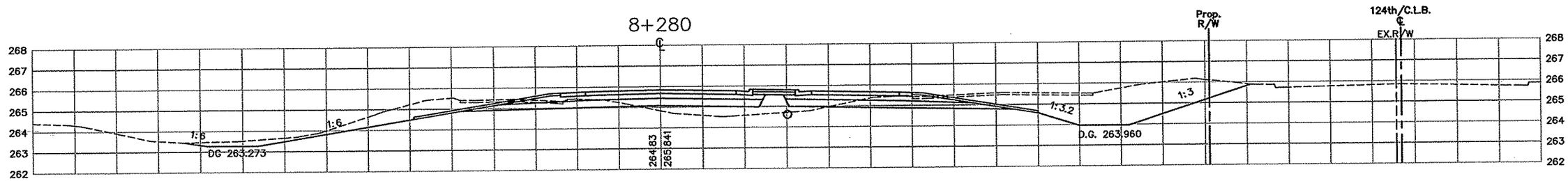
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

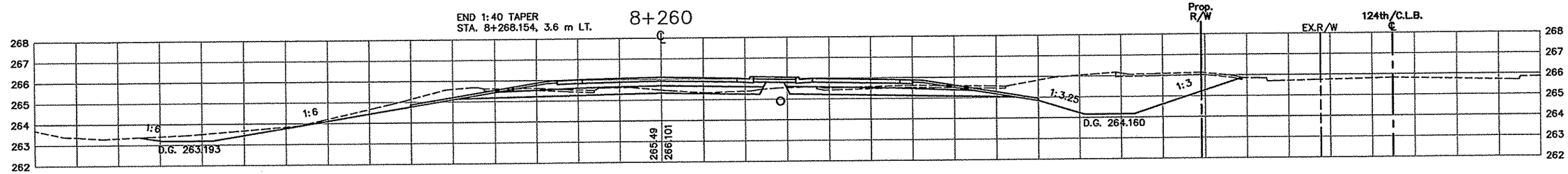
LEGEND:

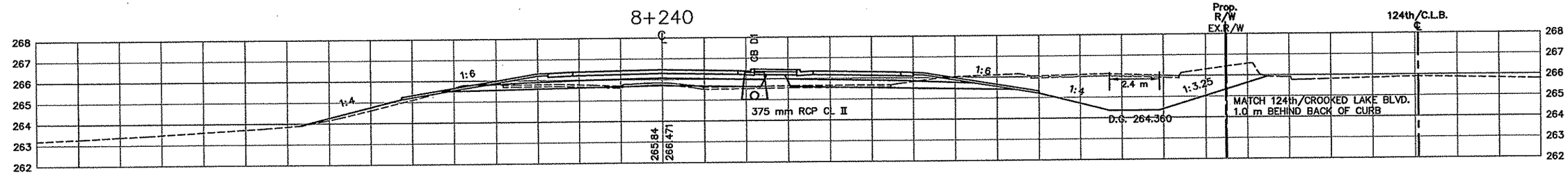
EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT











REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	4/12/00	MOD.REQ.#9: REV. LT. D.G. 8+240-8+340 FOR FES D4
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

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BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
CROSS SECTIONS
STATION 8+240.000 TO STATION 8+320.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 504 / 539

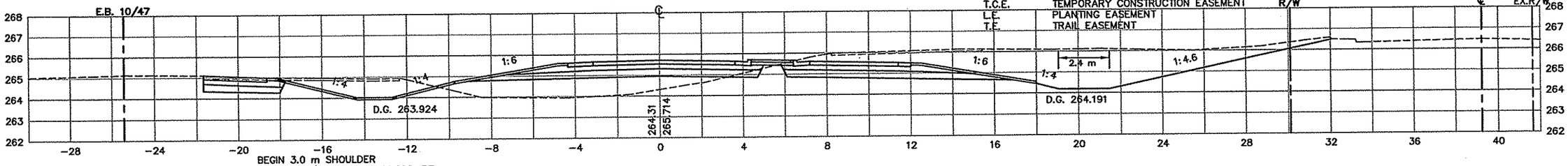
PLOT DATE: Apr 11, J 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\D-xsbdr.dwg
MPD-XS
DRAWINGS

DRAWINGS
MPD-XS

LEGEND:

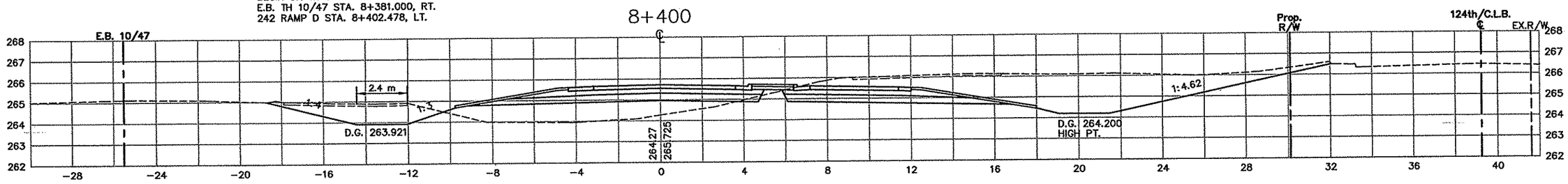
EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

8+402.478

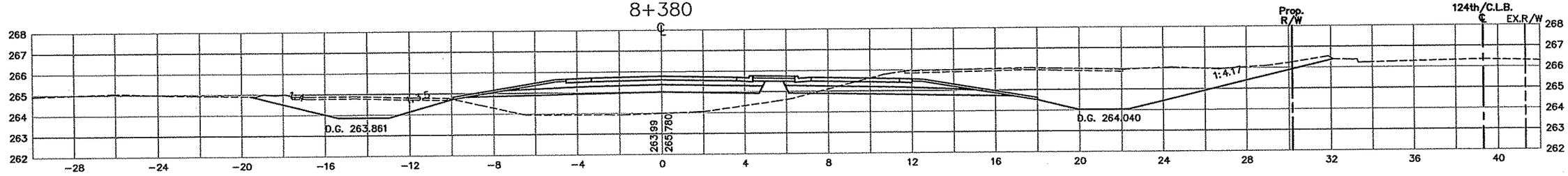


BEGIN 3.0 m SHOULDER
E.B. TH 10/47 STA. 8+381.000, RT.
242 RAMP D STA. 8+402.478, LT.

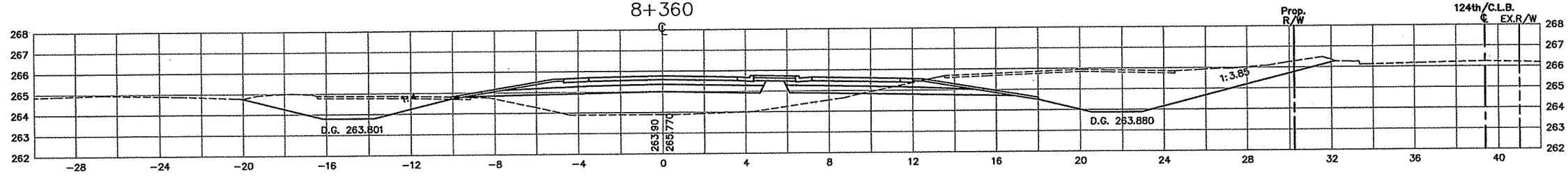
8+400



8+380

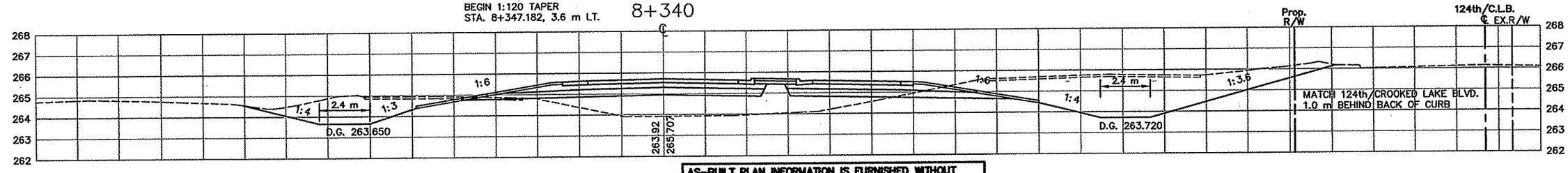


8+360



BEGIN 1:120 TAPER
STA. 8+347.182, 3.6 m LT.

8+340



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	4/12/00	MOD.REQ.#9: REV. LT. D.G. 8+240-8+340 FOR FES D4
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
CROSS SECTIONS
STATION 8+340.000 TO STATION 8+402.478

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 505 / 539

PLOT DATE: Apr 11, J 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\D-xsbdr.dwg

- DRAWINGS
MPD-XS

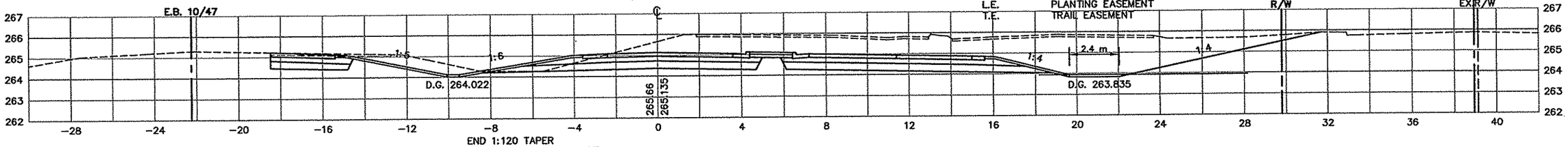
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LEGEND:

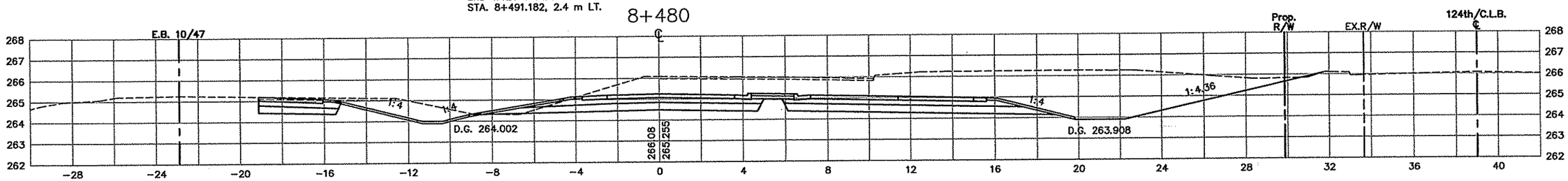
EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

MATCH 124th/CROOKED LAKE BLVD.
1.0 m BEHIND BACK OF CURB

8+500

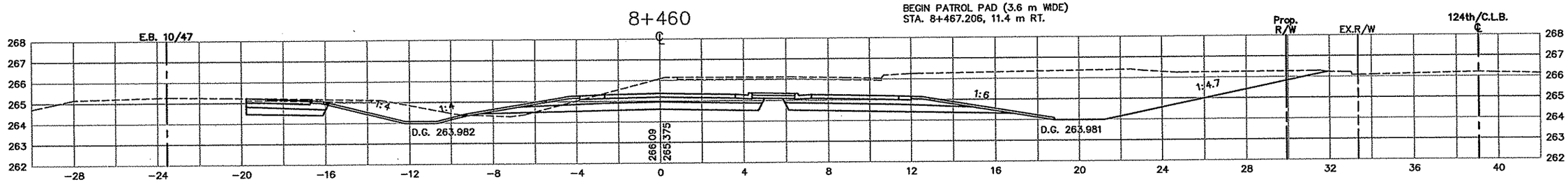


8+480

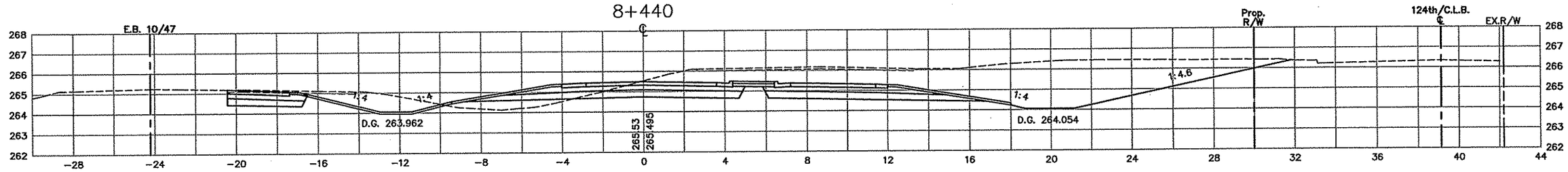


8+460

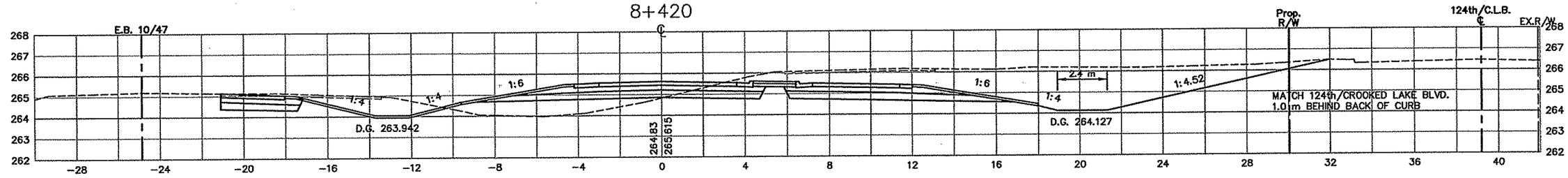
BEGIN PATROL PAD (3.6 m WIDE)
STA. 8+467.206, 11.4 m RT.



8+440



8+420



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED PATROL PAD STA. 8+467.206 TO STA. 8+515.318
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
CROSS SECTIONS
STATION 8+420.000 TO STATION 8+500.000

CITY PROJECT 98-20

S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

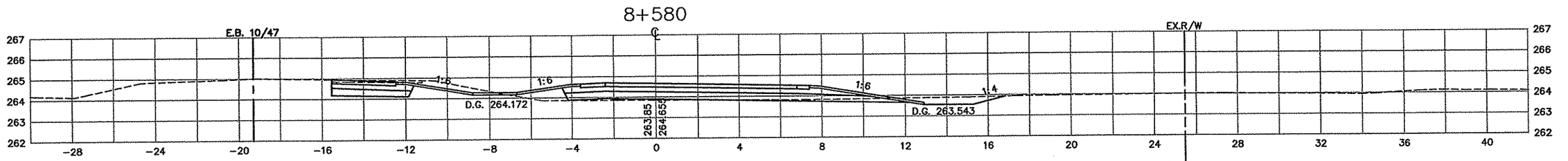
SHEET NO. 506 / 539

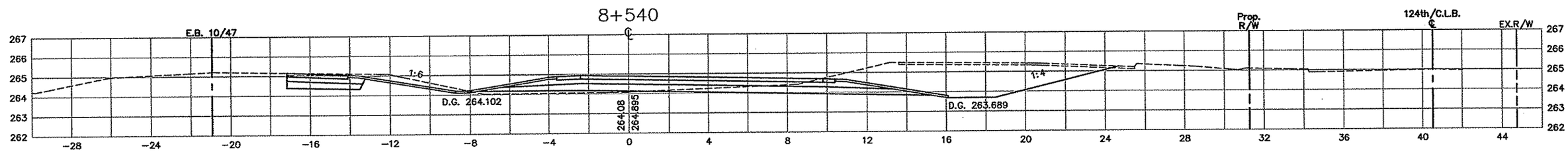
PLOT DATE: Apr 11, J 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA D-xsbdr.dwg

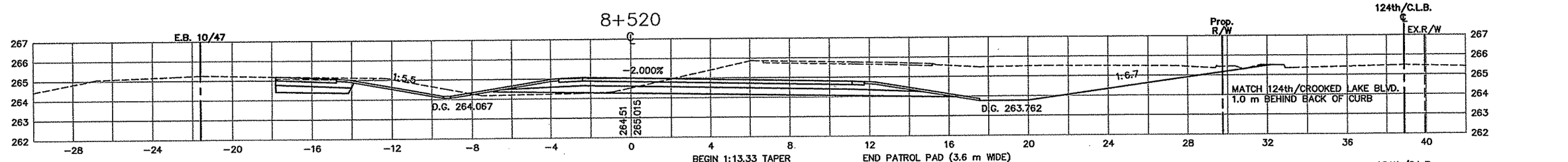
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT







REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED PATROL PAD STA. 8+467.209 TO STA. 8+515.318
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
CROSS SECTIONS
STATION 8+508.449 TO STATION 8+580.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 507 / 539

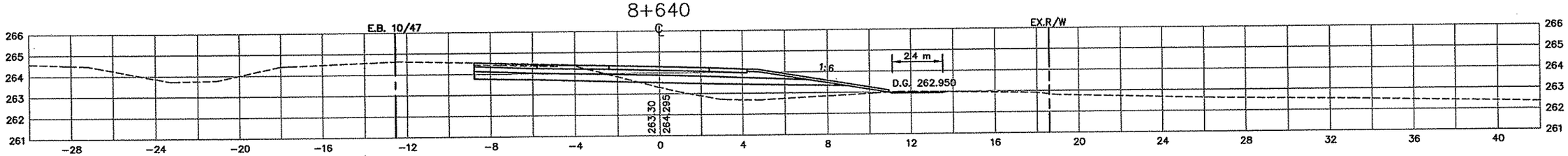
PLOT DATE: Apr 11, 2000 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33899E\XSEC\PLAN...\D-xsbdr.dwg
P DRAWINGS
MPD-XS

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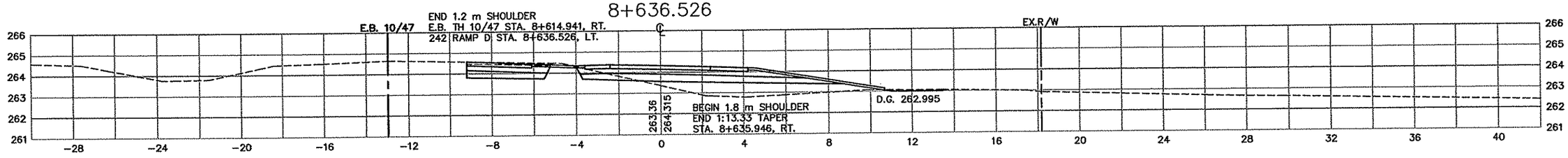
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

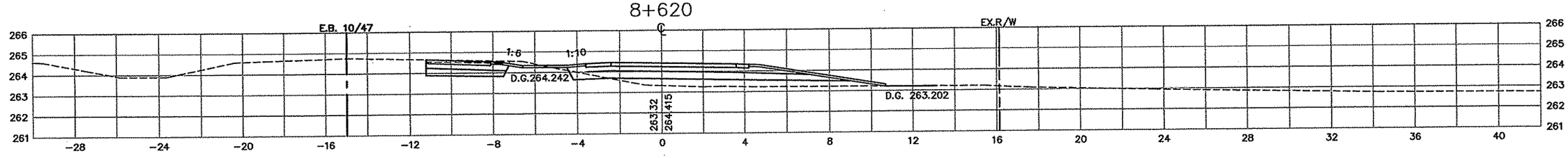
8+640



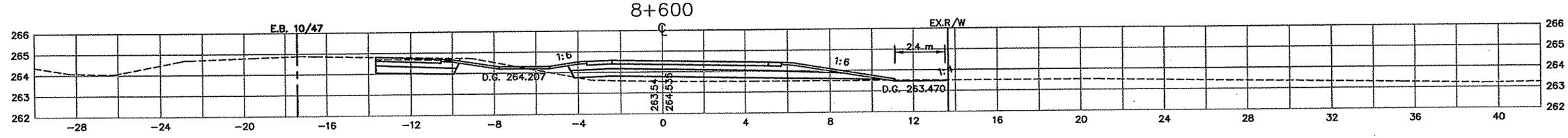
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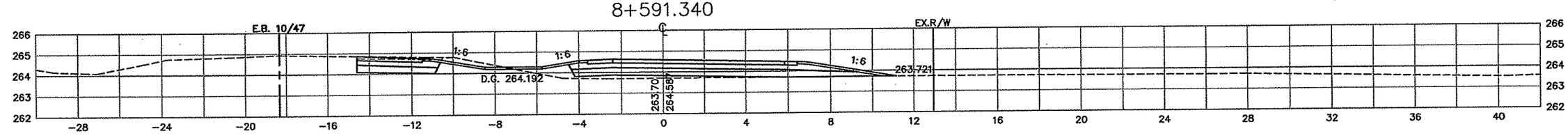
8+620



8+600



8+591.340



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

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A DAMES & MOORE GROUP COMPANY
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
CROSS SECTIONS
STATION 8+591.340 TO STATION 8+640.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 508 / 539

PLOT DATE: Apr 11, ... 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN...\D-xsbdr.dwg

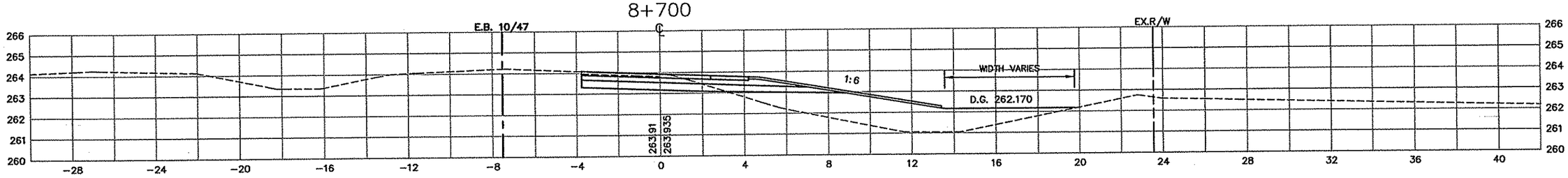
· DRAWINGS
WPD–XS

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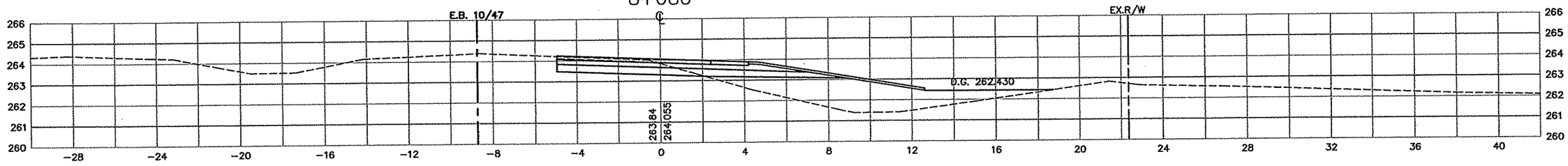
LEGEND:

EX. R/W	EXISTING RIGHT–OF–WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

8+700

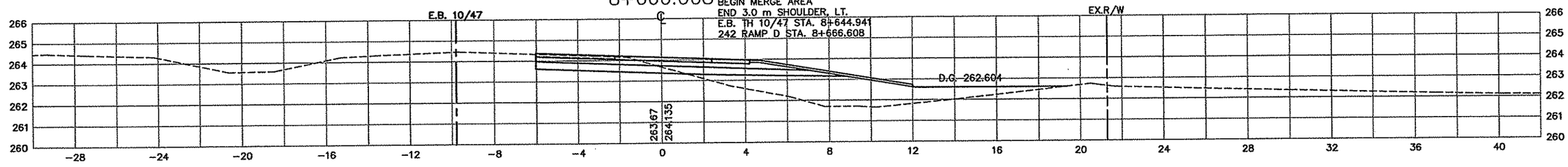


8+680

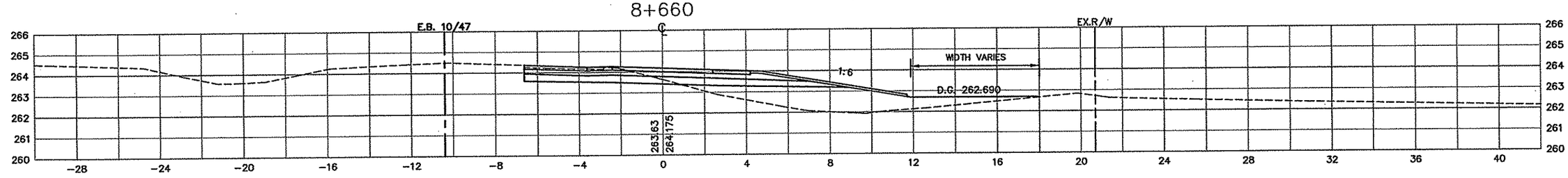


8+666.608 BEGIN MERGE AREA

END 3.0 m SHOULDER, LT.
E.B. TH 10/47 STA. 8+644.941
242 RAMP D STA. 8+666.608



8+660



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS–BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D–XSBDR
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370–0700 (TEL)
(612)370–1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D, RAMP D MERGE AREA
CROSS SECTIONS
STATION 8+660.000 TO STATION 8+700.000

CITY PROJECT 98–20

S.P. 0212–40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 509 / 539

PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\3388028\33889E\XSEC\PLAN\D–xsbdr.dwg

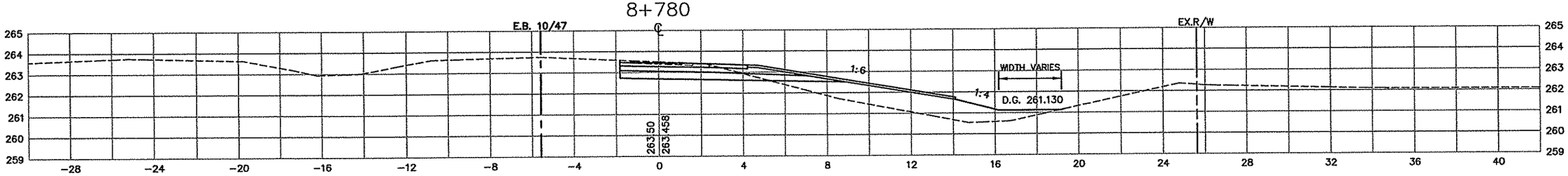
DRAWINGS
WPD-XS

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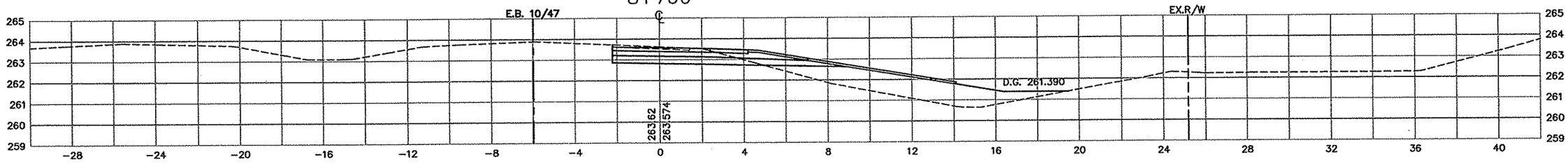
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

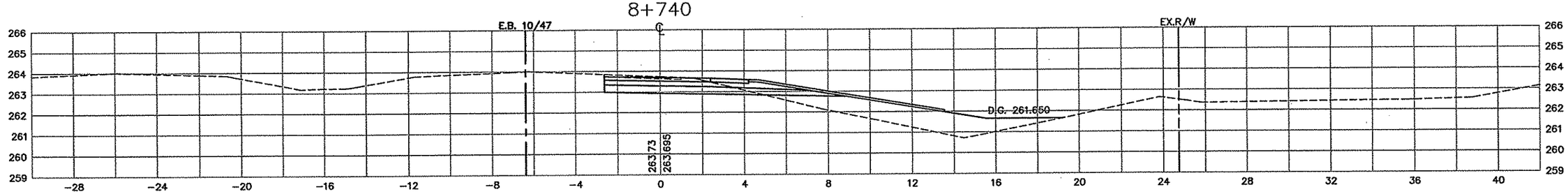
8+780



8+760

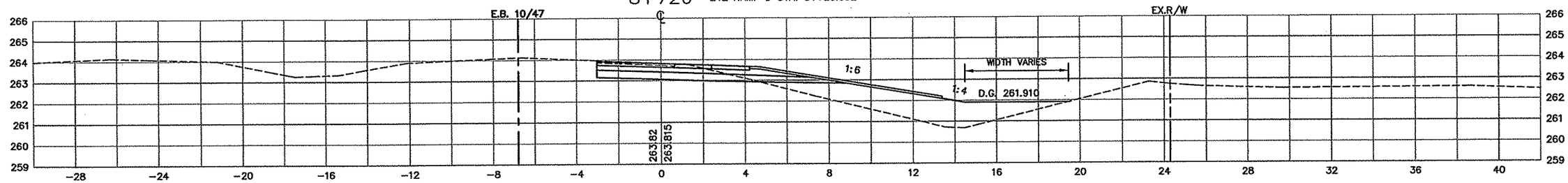


8+740



BEGIN 1:50 TAPER, 2.4 m RT.
242 RAMP D STA. 8+723.992

8+720



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

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BRW GROUP
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D MERGE AREA
CROSS SECTIONS
STATION 8+720.000 TO STATION 8+780.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 510 / 539

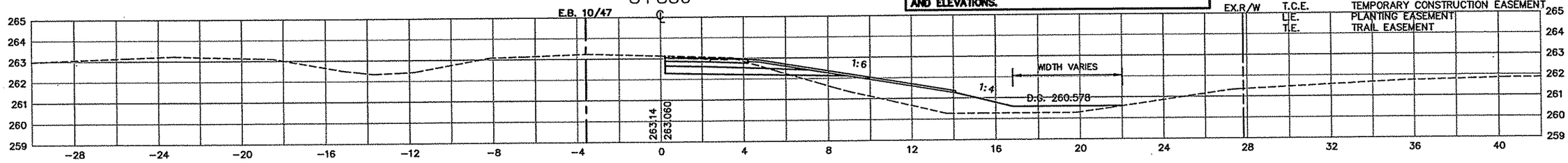
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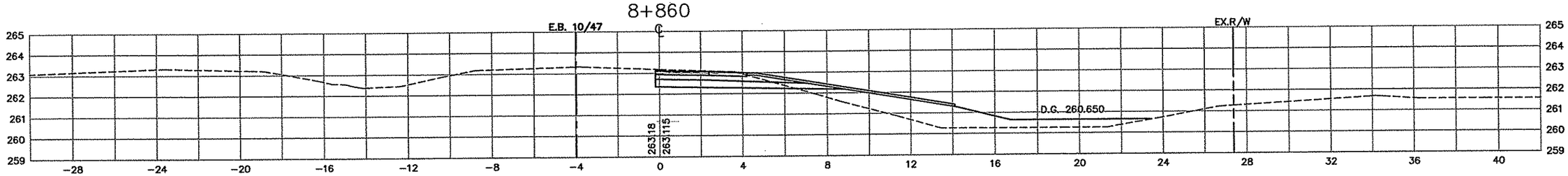
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
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DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

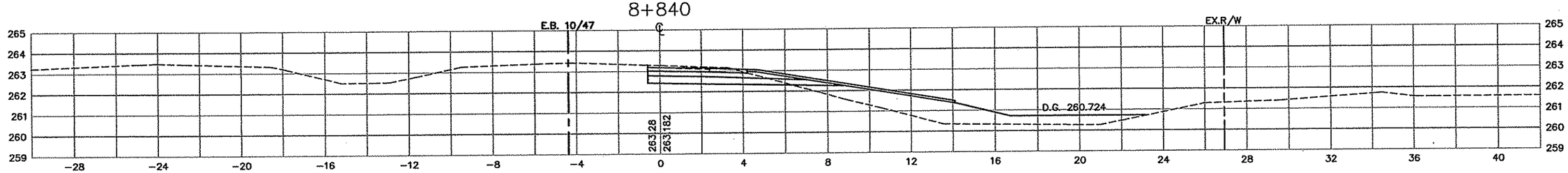
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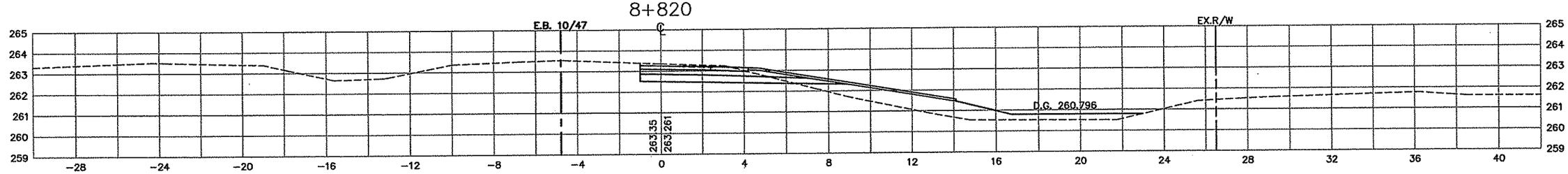
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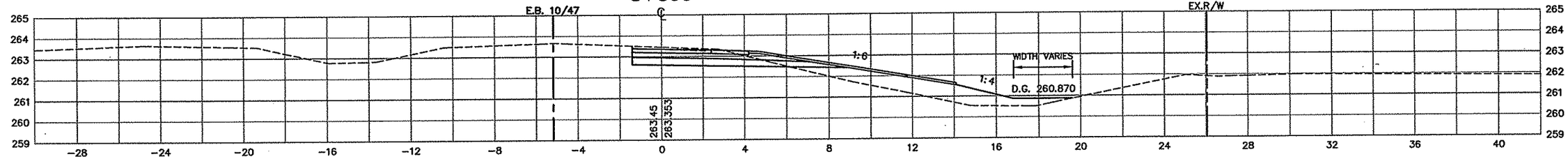
8+840



8+820



8+800



11 OF 13

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

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BRW GROUP
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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D MERGE AREA
CROSS SECTIONS
STATION 8+800.000 TO STATION 8+880.000

CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 511 / 539

PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\D-xsbdr.dwg

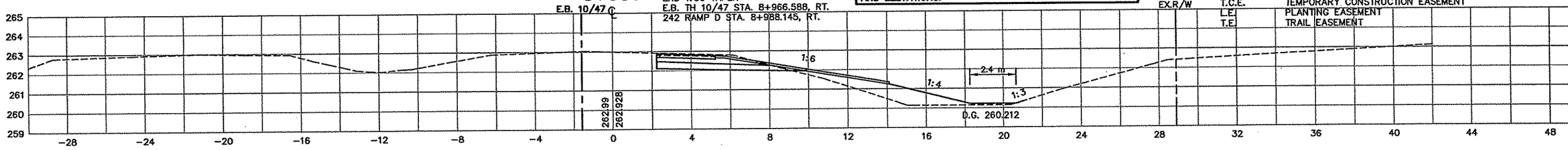
P DRAWINGS
MPD-XS

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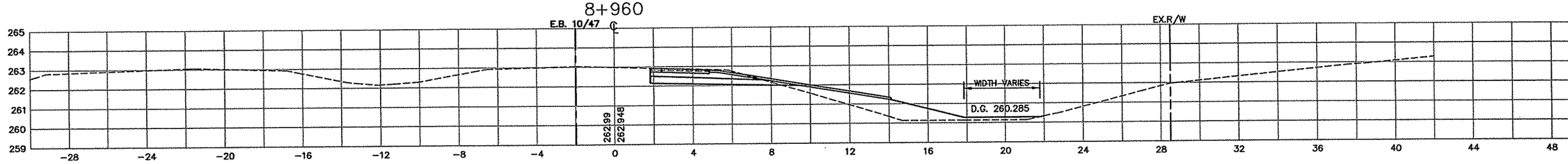
LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

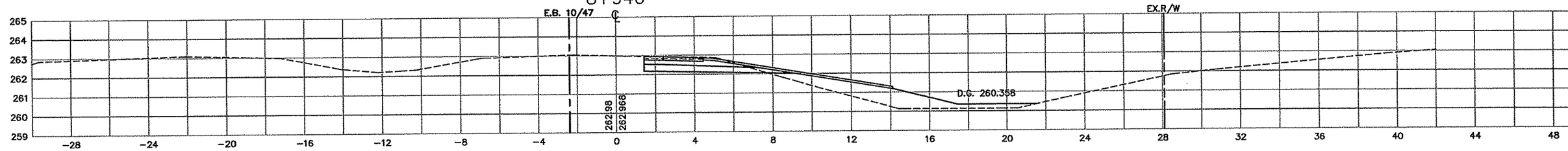
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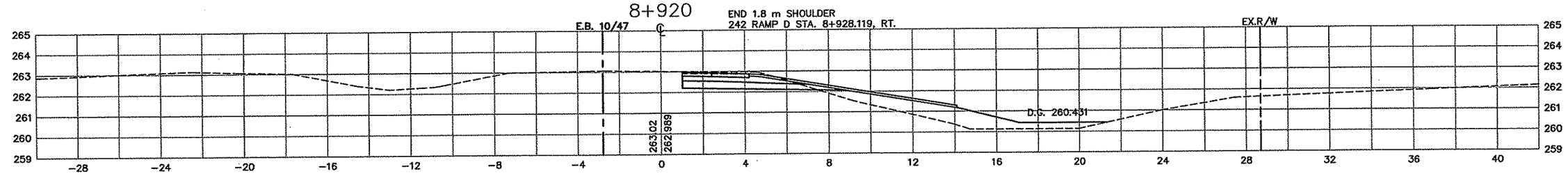
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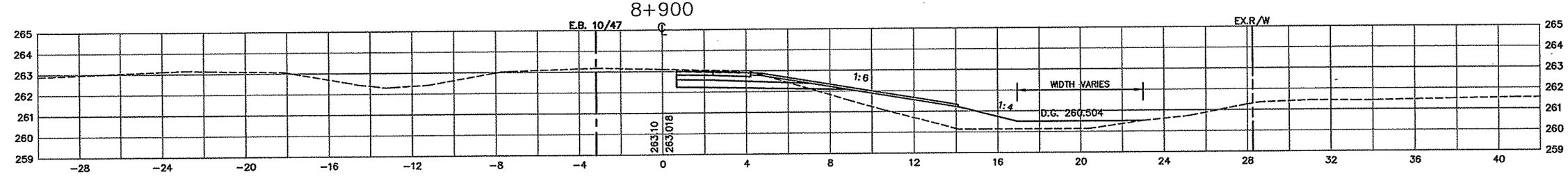
8+940



8+920



8+900



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

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Kevin P Kuhl

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D MERGE AREA
CROSS SECTIONS
STATION 8+900.000 TO STATION 8+980.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

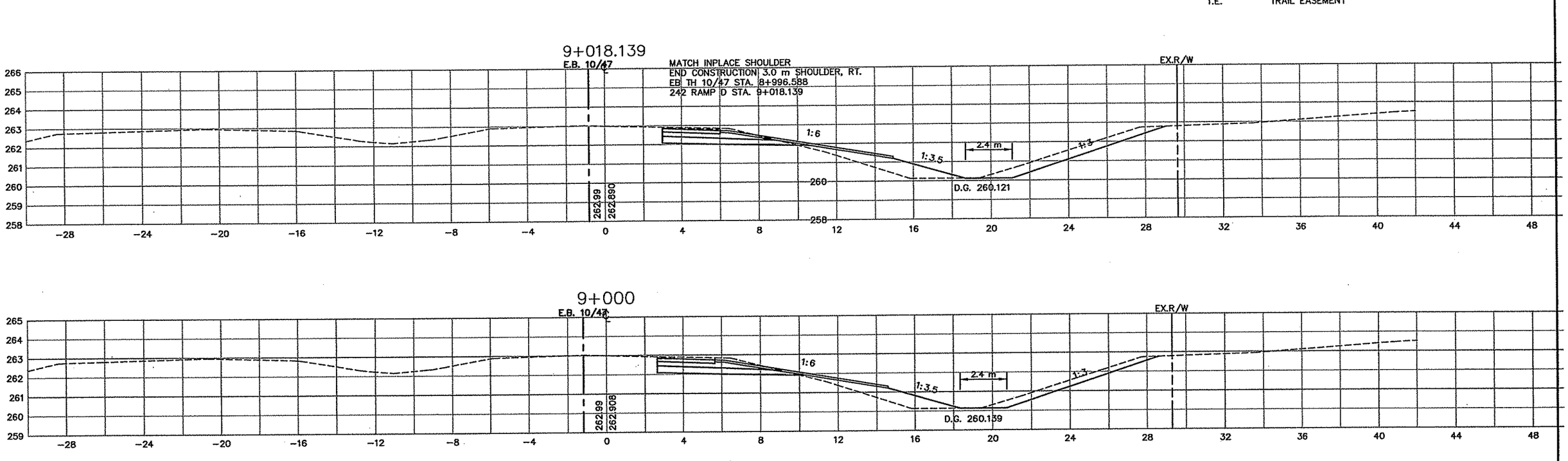
SHEET NO. 512 / 539

PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\D-xsbdr.dwg

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999

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Kevin P Kielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D MERGE AREA
CROSS SECTIONS
STATION 9+000.000 TO STATION 9+018.139

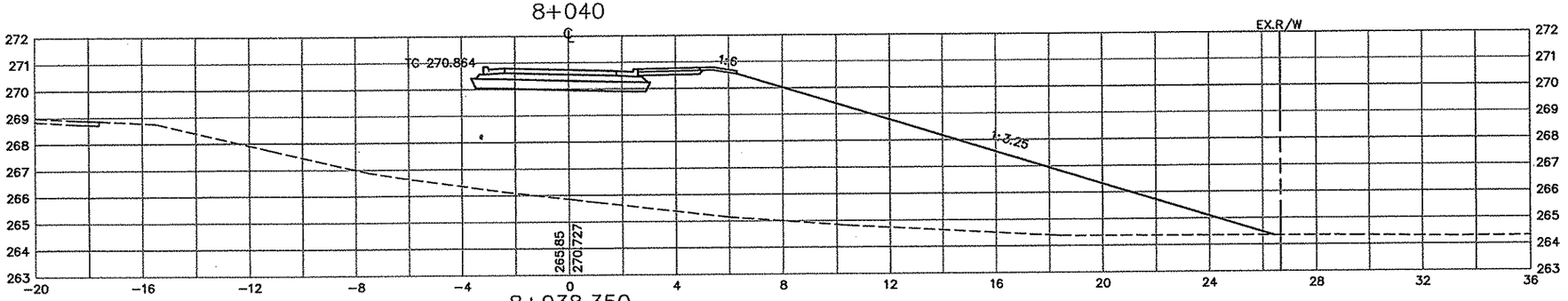
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

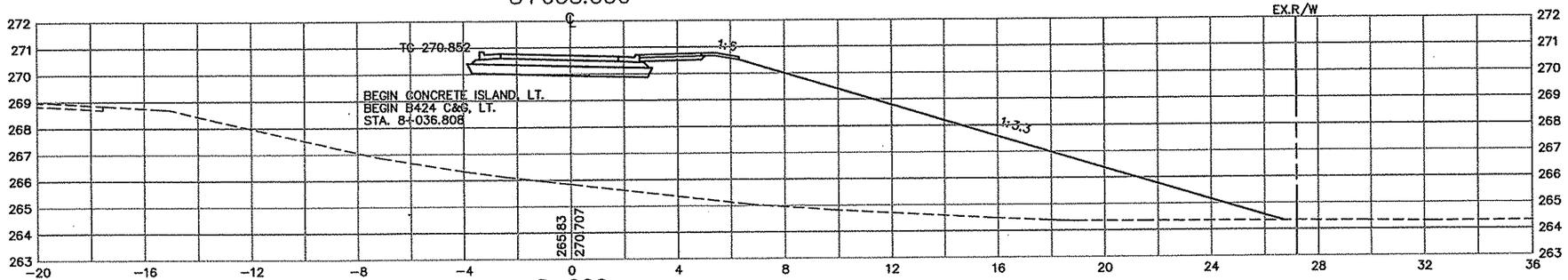
SHEET NO. 513 / 539

PLOT DATE: Apr 11, J 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\D-xsbdr.dwg

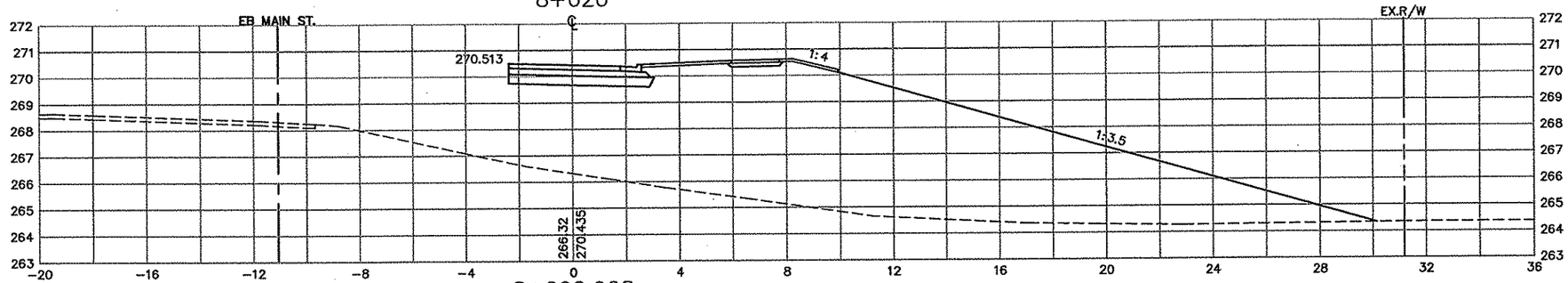
8+040 ℄



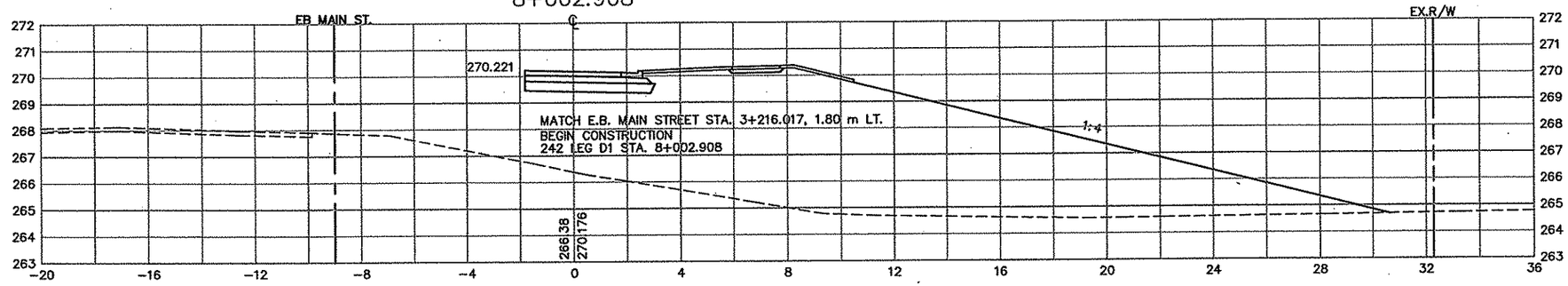
8+038.350 ℄



8+020 ℄



8+002.908 ℄



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LEGEND:

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P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: D1-XSBDR
DATE: NOVEMBER 5, 1999

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Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 LEG D1
CROSS SECTIONS
STATION 8+002.908 TO STATION 8+040.000

CITY PROJECT 98-20

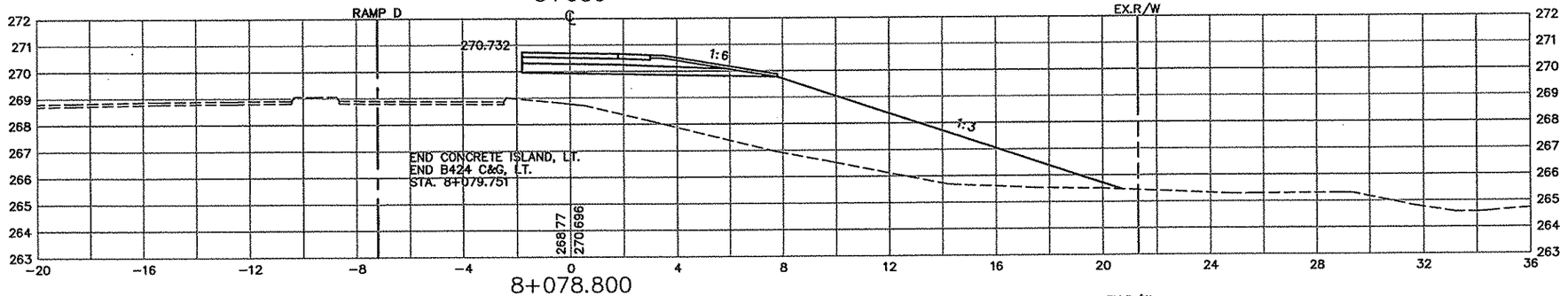
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
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S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
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S.A.P.	114 - 127 - 02

SHEET NO. 514 / 539

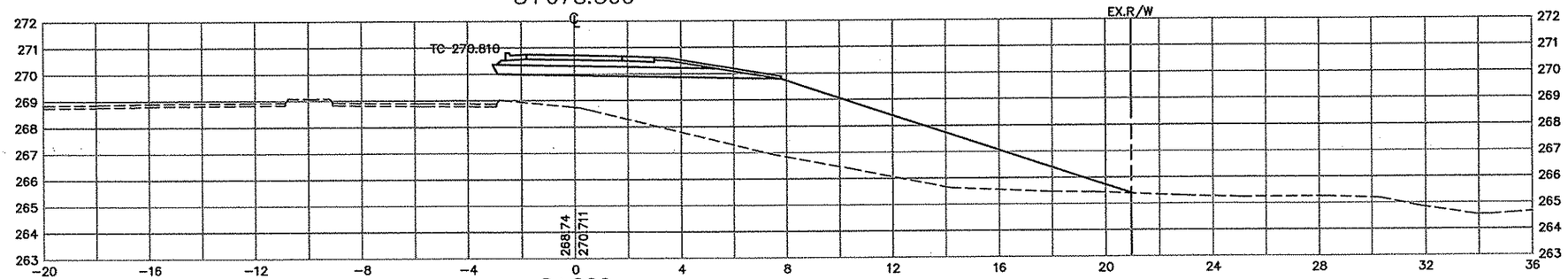
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F DRAWINGS
:GD1-XS

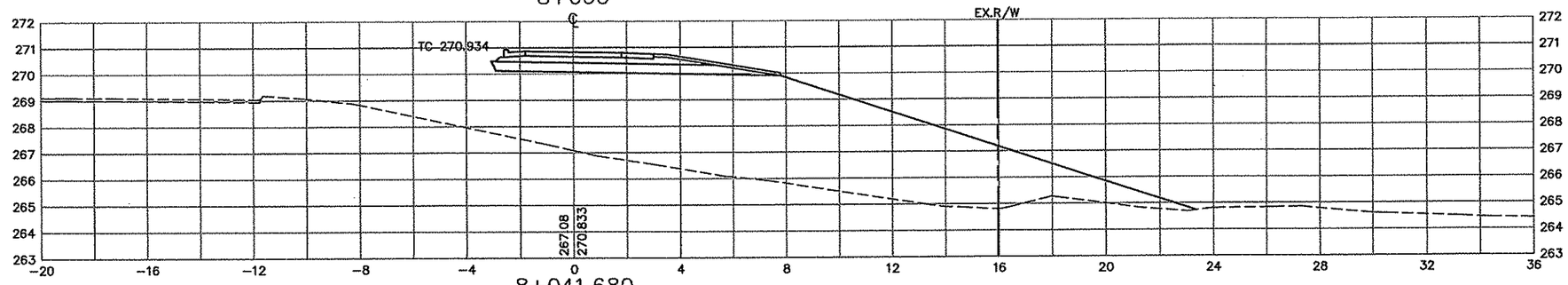
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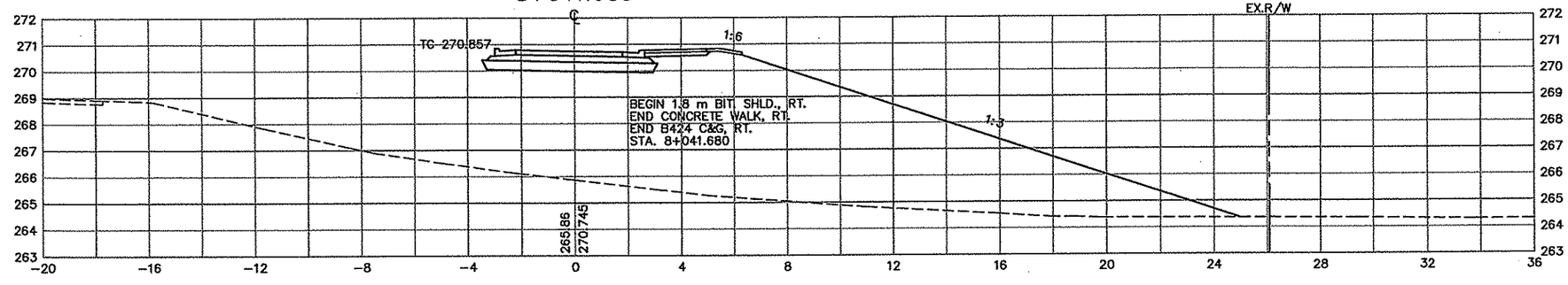
8+078.800



8+060



8+041.680



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LEGEND:

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L.E.	PLANTING EASEMENT
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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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(612)370-0700 (TEL)
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P Bielb

DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 LEG D1
CROSS SECTIONS
STATION 8+041.680 TO STATION 8+080.000

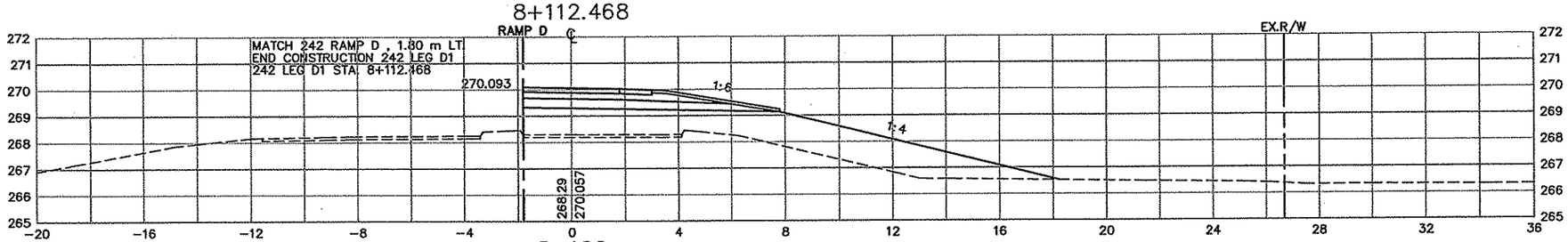
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

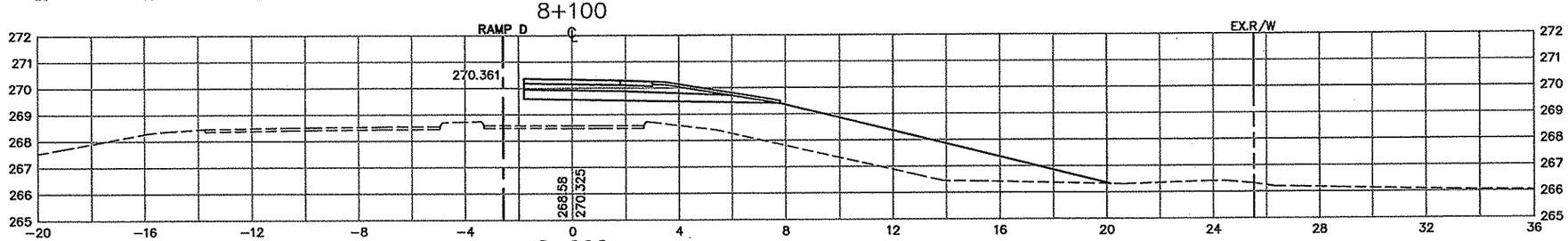
SHEET NO. 515 / 539

PLOT DATE: Dec 22, 99 6:38pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN...T\D1-xsbdr.dwg

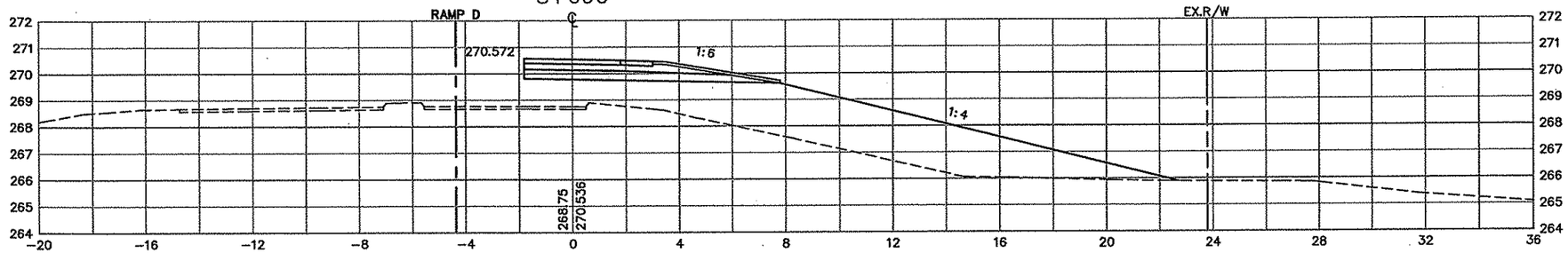
8+112.468



8+100



8+090



AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
DR.E.	DRAINAGE EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: D1-XSBDR
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
242 LEG D1
CROSS SECTIONS
STATION 8+090.000 TO STATION 8+112.468

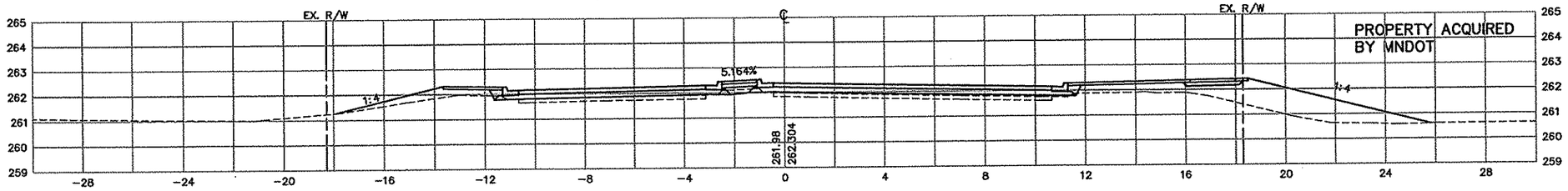
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

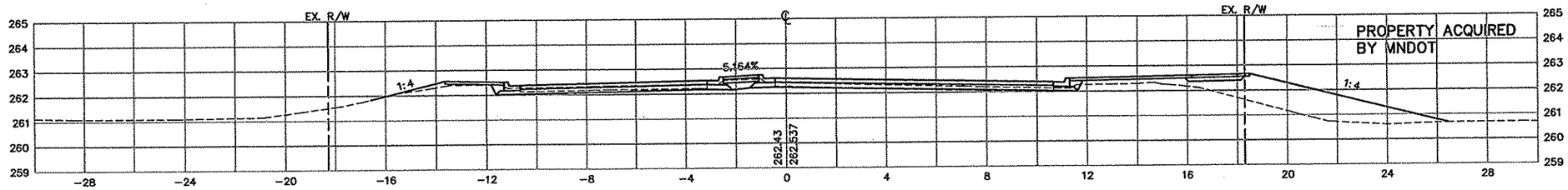
SHEET NO. 516 / 539

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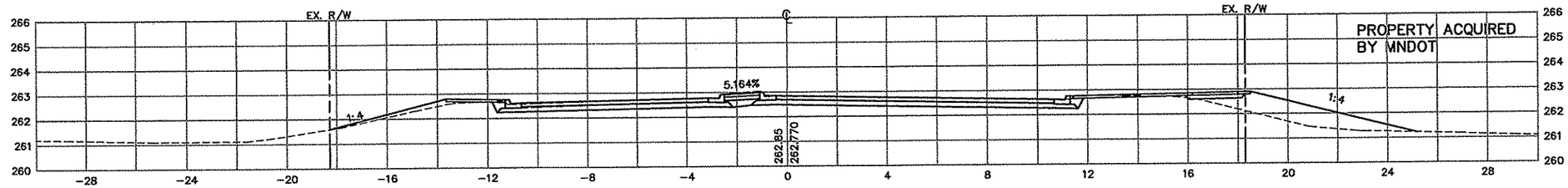
1+240



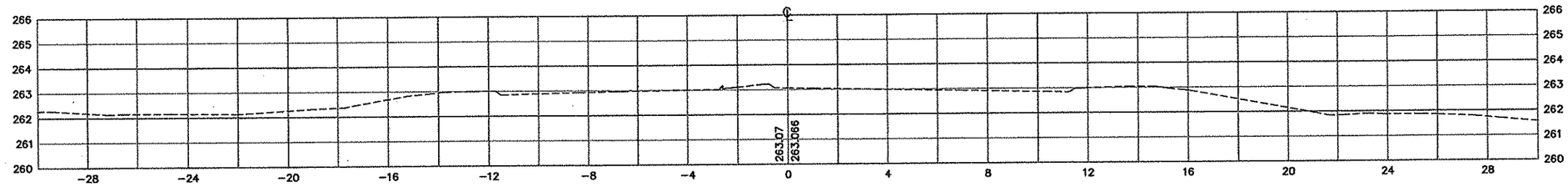
1+220



1+200



1+180



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 3388902B
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: COONXS-1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
CROSS SECTIONS
STATION 1+180.000 TO STATION 1+240.000

CITY PROJECT 98-20

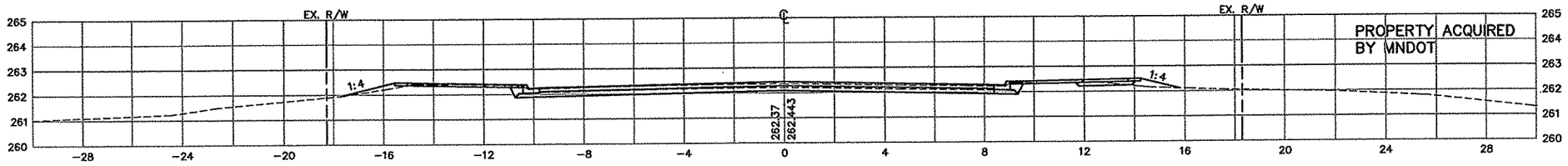
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 517 / 539

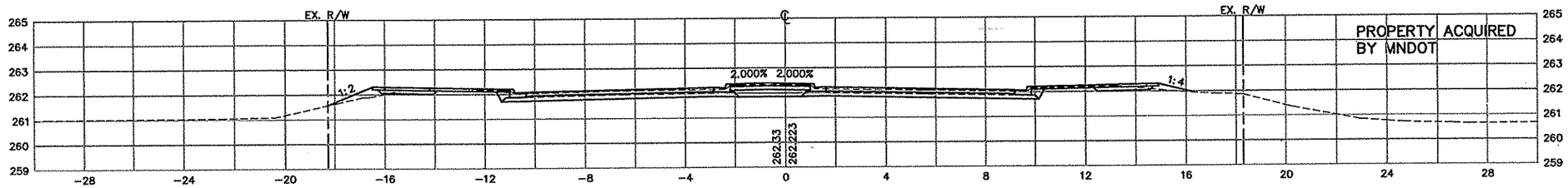
PLOT DATE: Aug 02, 2004 3:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\XSEC\plan_snt\COONxs-1.dwg

DON-XS
APBOX

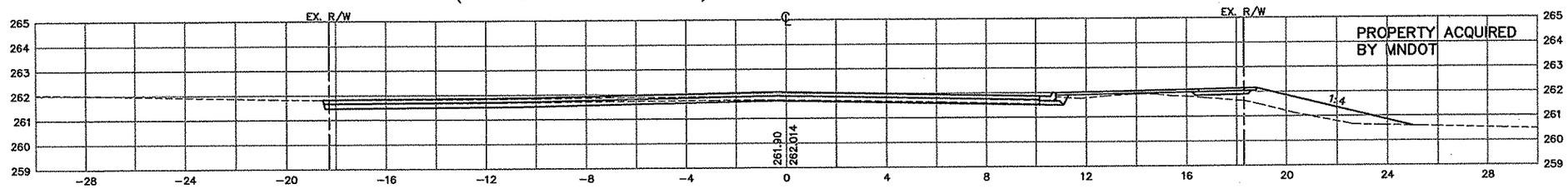
1+320



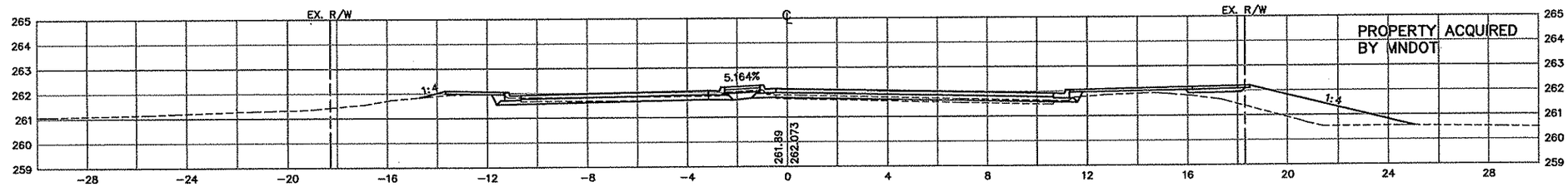
1+300



(℄ 128TH AVE. – LEFT) 1+276.708



1+260



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: COONXS-2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
CROSS SECTIONS
STATION 1+260.000 TO STATION 1+320.000

CITY PROJECT 98-20

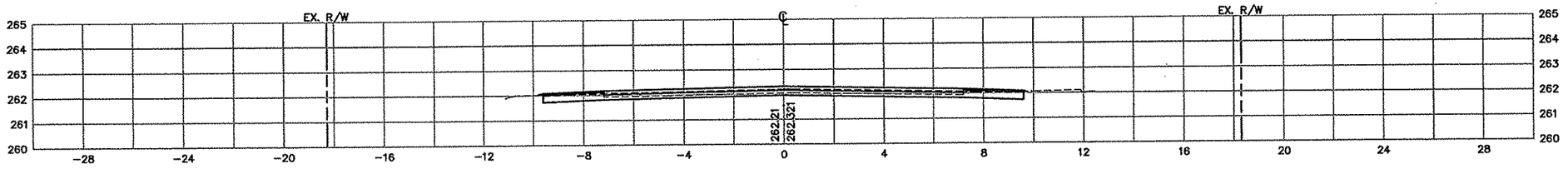
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 518 / 539

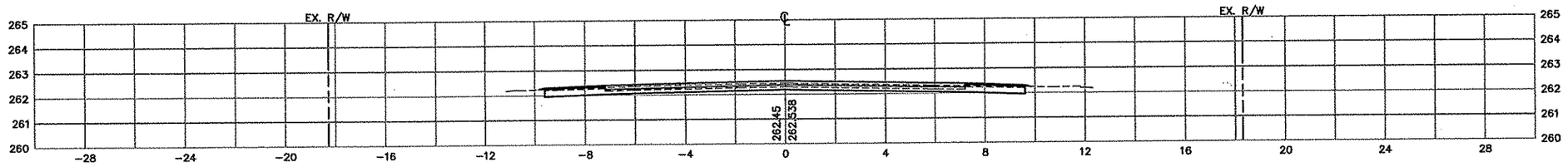
PLOT DATE: Jan 03, 2000 10:50am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\COONxs-2.dwg

DGN-XS
APBOX

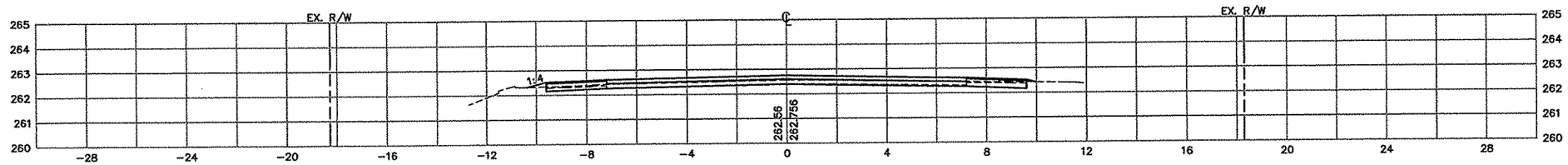
1+460



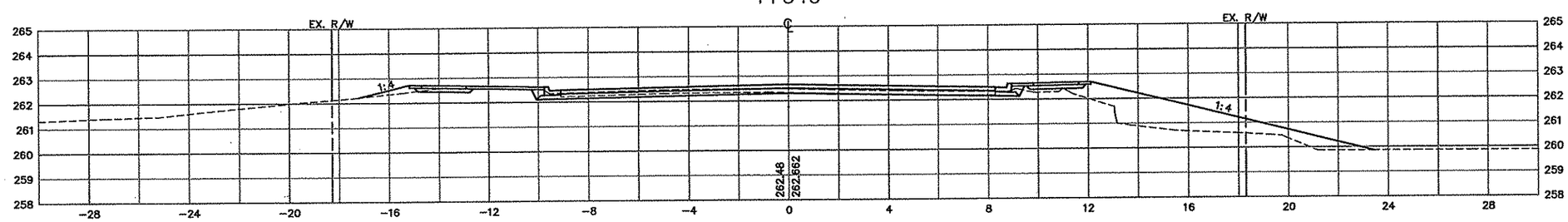
1+440



1+420



1+340



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: COONXS-3
DATE: NOVEMBER 5, 1999

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
CROSS SECTIONS
STATION 1+340.000 TO STATION 1+460.000

CITY PROJECT 98-20

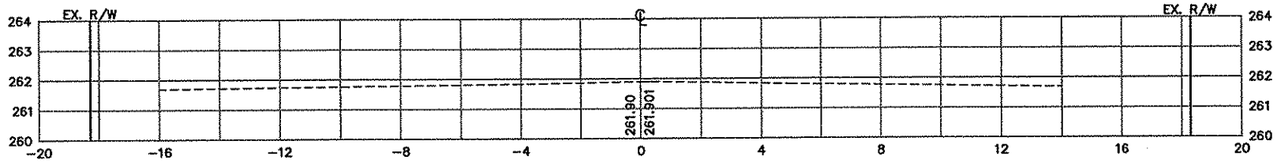
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 519 / 539

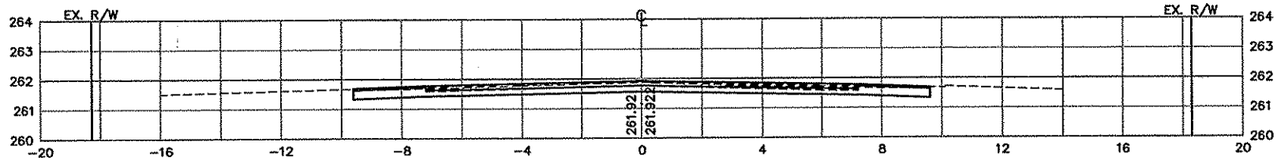
PLOT DATE: Jan 03, 2000 10:50am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_srf\COONxs-3.dwg

OON-XS
APBOX

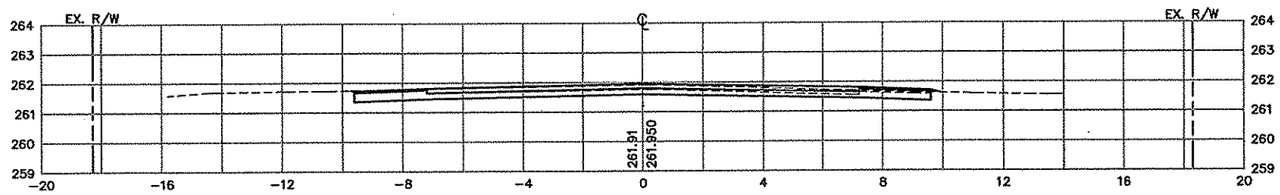
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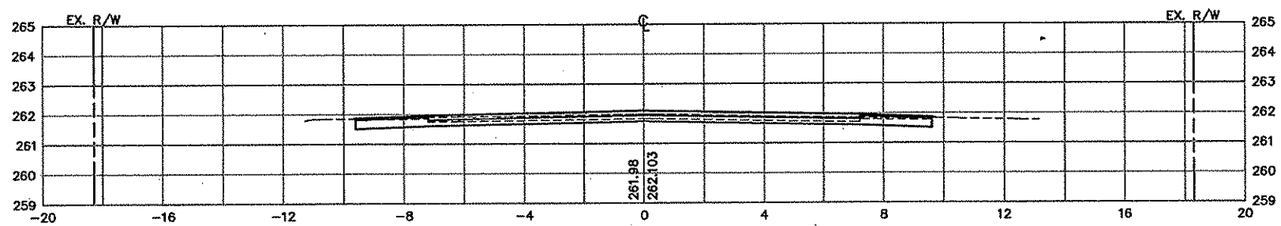
1+520



1+500



1+480



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: COONXS-4
DATE: NOVEMBER 5, 1999

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
CROSS SECTIONS
STATION 1+480.000 TO STATION 1+540.000

CITY PROJECT 98-20

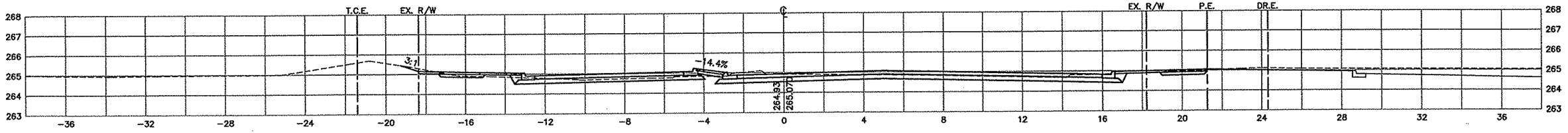
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 520 / 539

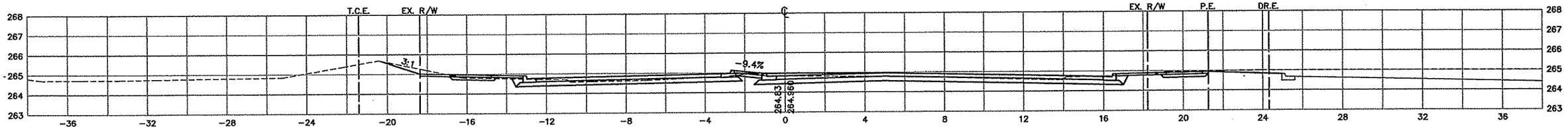
PLOT DATE: Jan 03, 2000 10:51am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_set\COONxs-4.dwg

NDALE-XS

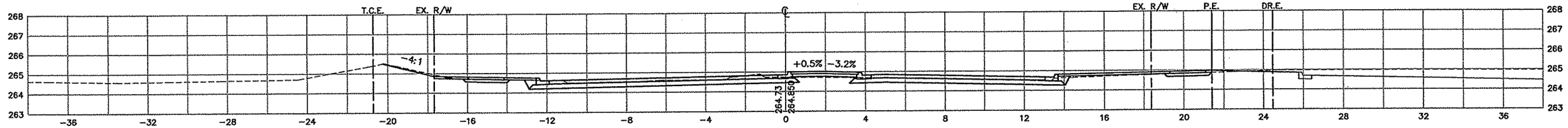
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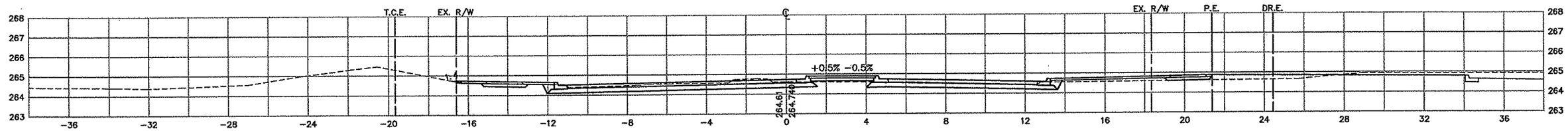
0+900



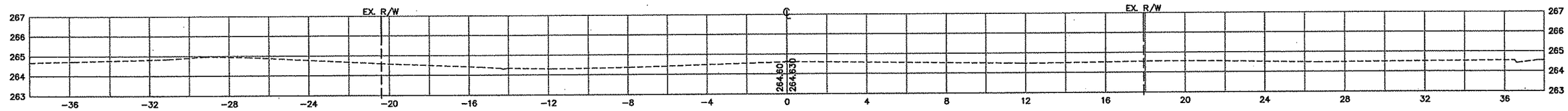
0+880



0+860



0+840



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT
DR.E.	DRAINAGE & UTILITY EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	6/1/00	MOD.REQ.#27: ADDED SIDEWALK & DRAINAGE EASEMENT MODIFIED SB LT. TURN LANE CROSS SLOPE ADDED EXIST. PARKING LOT, RT.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: DALXS-01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD
CROSS SECTIONS
STATION 0+840.000 TO STATION 0+920.000

CITY PROJECT 98-20

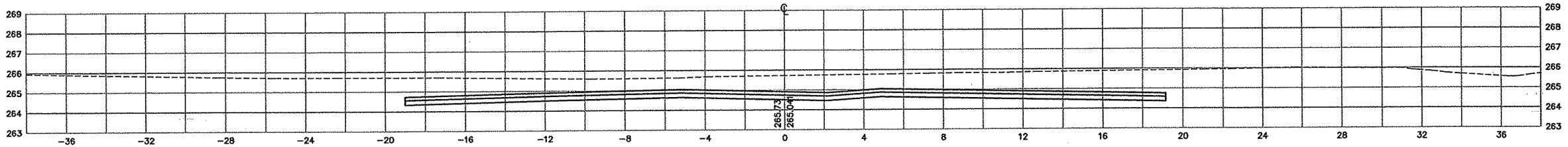
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 521 / 539

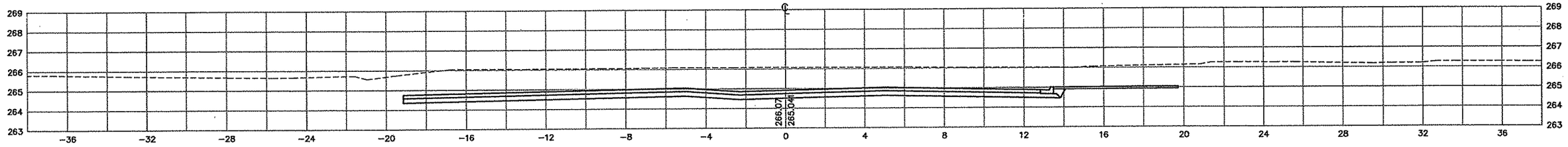
PLOT DATE: Jun 05, 2000 11:06am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_snt\DALxs-01.dwg

DALE-XS

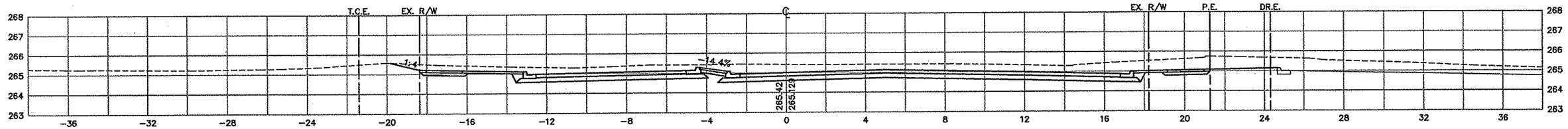
1+019.500



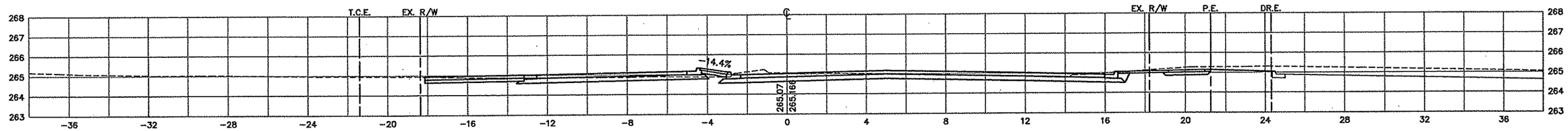
0+980.500



0+960



0+943.302



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT
DR.E.	DRAINAGE & UTILITY EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	6/1/00	MOD. REQ. #27: ADDED SIDEWALK & DRAINAGE EASEMENT MODIFIED MEDIAN CROSS SLOPE 0+943.302-0+960 ADDED EXIST. PARKING LOT, RT.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: DALXS-02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION NORTHDALE BOULEVARD

CROSS SECTIONS
STATION 0+943.302 TO STATION 0+980.500

CITY PROJECT 98-20

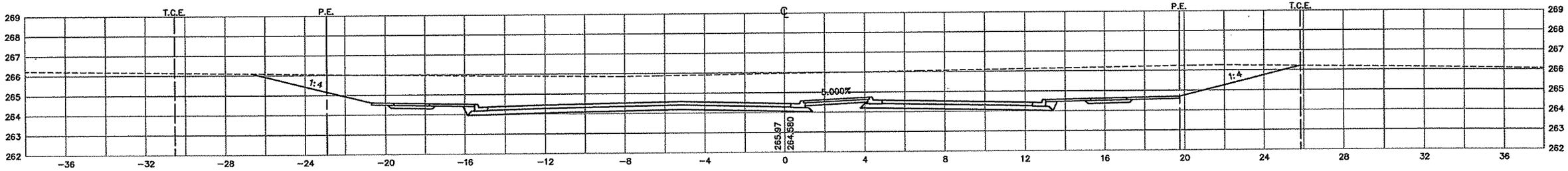
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 522 / 539

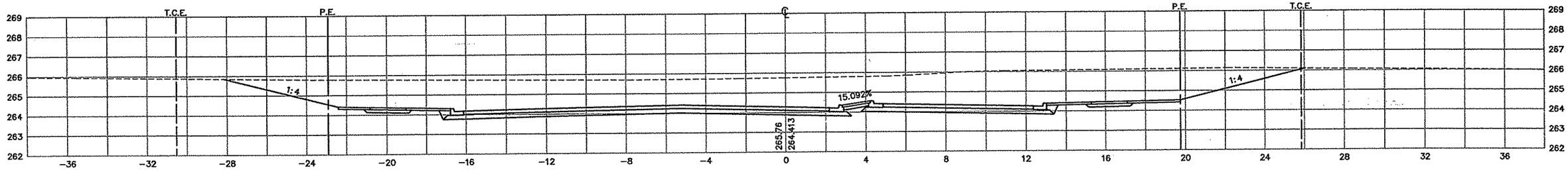
PLOT DATE: Jun 05, 2000 11:10am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\DALxs-02.dwg

DALE-XS

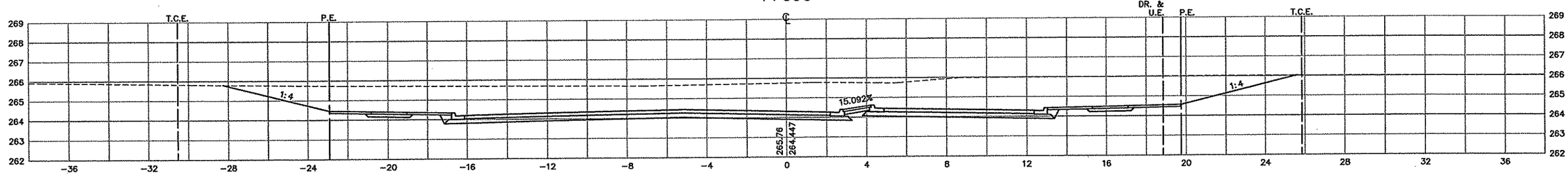
1+100



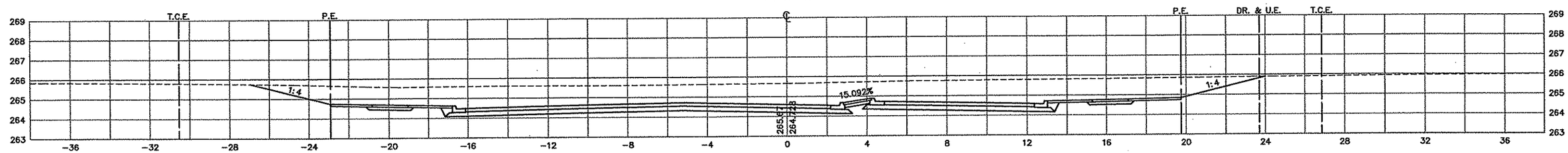
1+080



1+060



1+040



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT
DR. & U.E.	DRAINAGE AND UTILITY EASEMENT

3 OF 6

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: DALXS-03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD
CROSS SECTIONS
STATION 1+000.000 TO STATION 1+060.000

CITY PROJECT 98-20

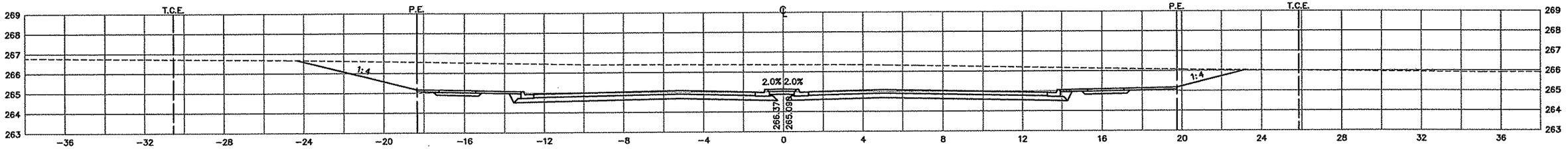
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 523 / 539

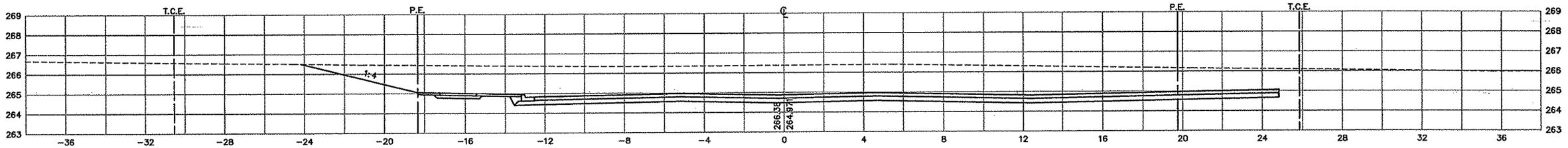
PLOT DATE: Jan 03, 2000 10:55am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\DALxs-03.dwg

ALL DRAWINGS
DALE-XS

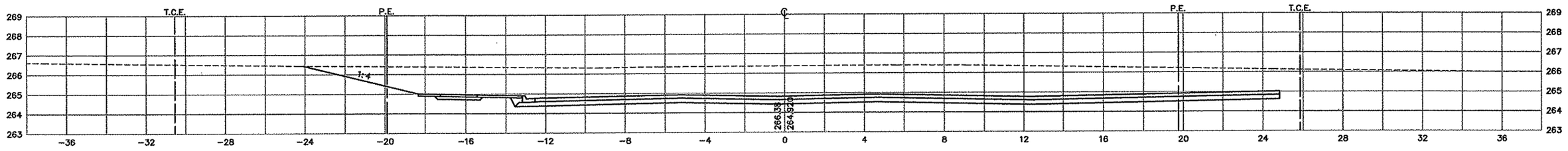
1+160



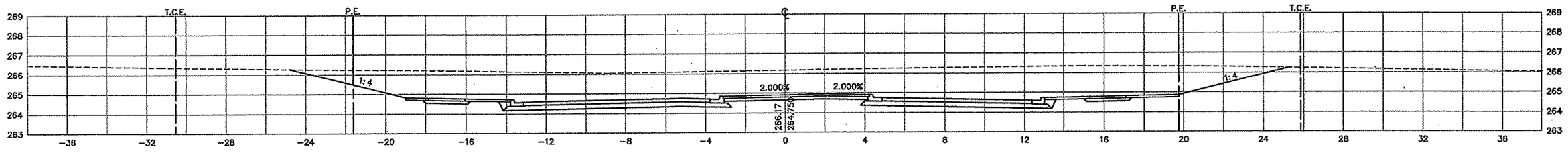
1+146.018



1+140



1+120



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: DALXS-04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-9700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD
CROSS SECTIONS
STATION 1+080.000 TO STATION 1+140.000

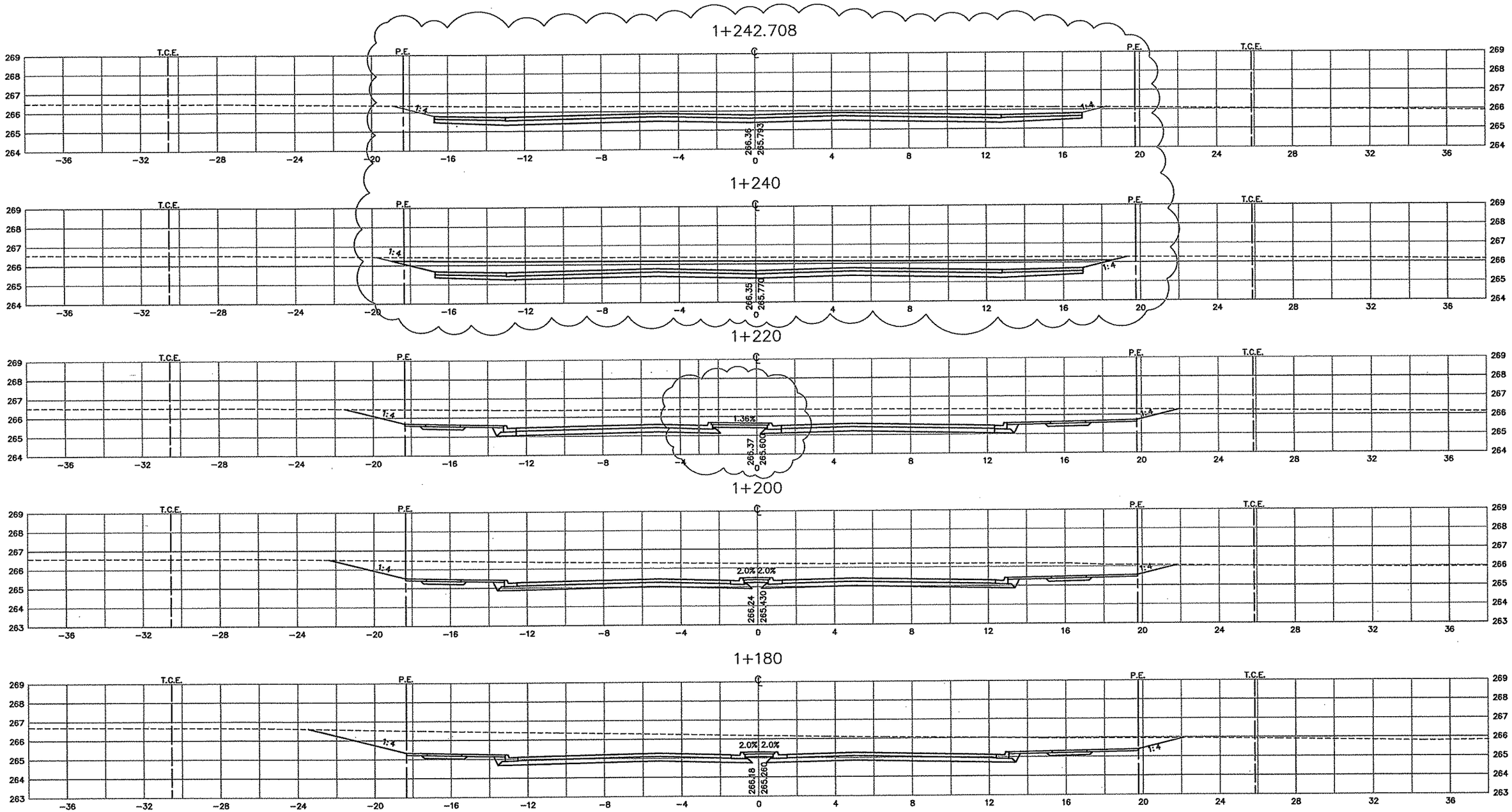
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 524 / 539

PLOT DATE: Jan 03, 2000 10:55am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\DALxs-04.dwg

DALE-XS



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	9/29/00	MOD. REQ. #69: MODIFIED CROSS SECTIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: DALXS-05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD
CROSS SECTIONS
STATION 1+060.000 TO STATION 1+240.000

CITY PROJECT 98-20

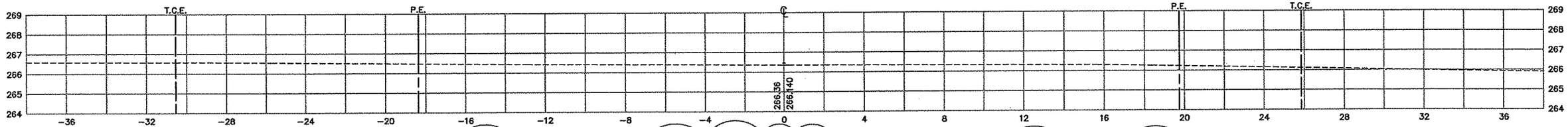
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 525 / 539

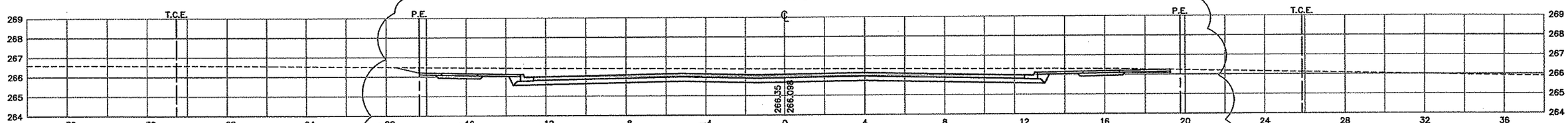
PLOT DATE: Oct 02, 2000 4:07pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\DALxs-05.dwg

DALE-XS

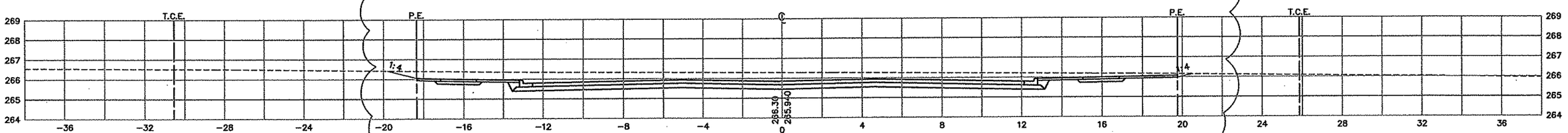
1+280



1+275



1+260



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	9/29/00	MOD. REQ. #69: MODIFIED CROSS SECTIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: DALXS-06
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DC&M GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD
CROSS SECTIONS
STATION 1+260.000 TO STATION 1+300.000

CITY PROJECT 98-20

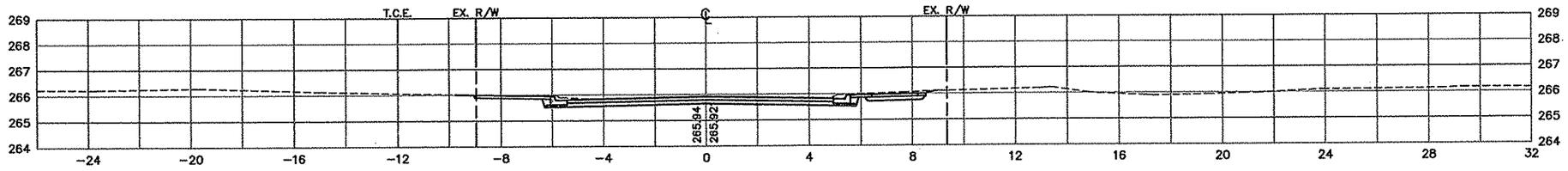
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 526 / 539

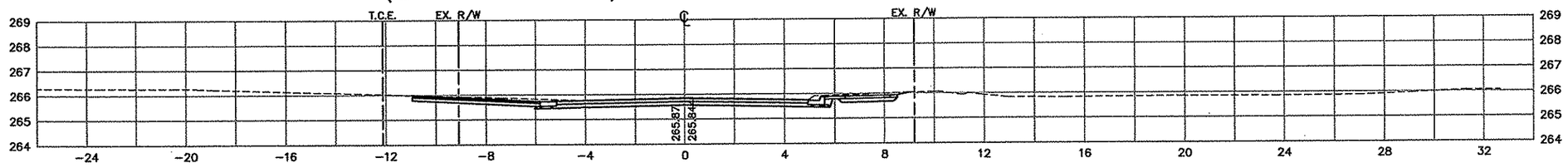
PLOT DATE: Oct 02, 2000 4:17pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_snt\DALxs-06.dwg

ANU DRAWINGS
24TH-XS

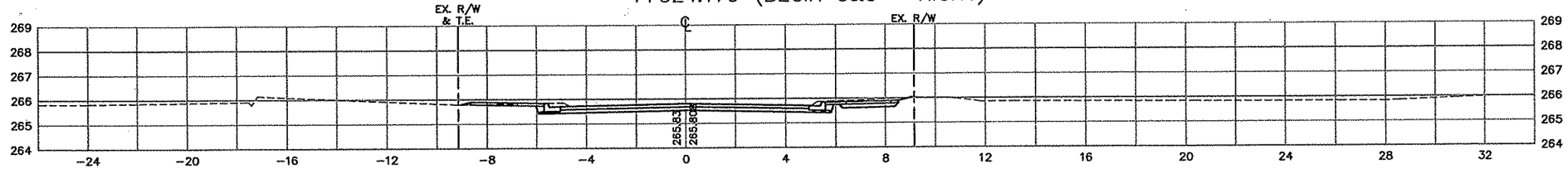
1+340



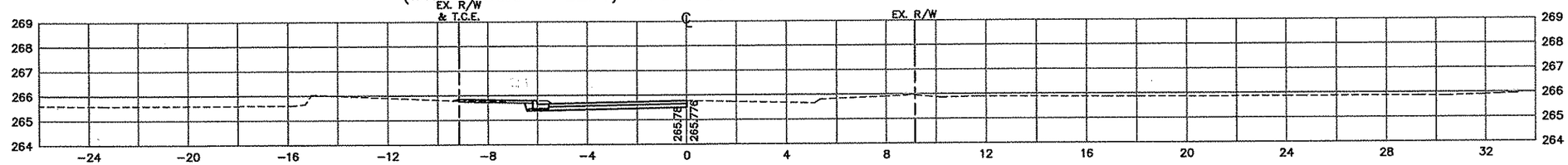
(℄ DRIVEWAY – LEFT) 1+329.130



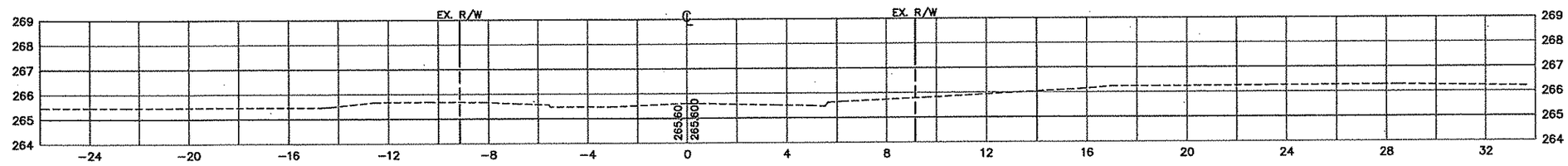
1+324.179 (BEGIN C&G – RIGHT)



(BEGIN C&G – LEFT) 1+319.686



1+300



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 124XS-01
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVENUE
CROSS SECTIONS
STATION 1+300.000 TO STATION 1+340.000

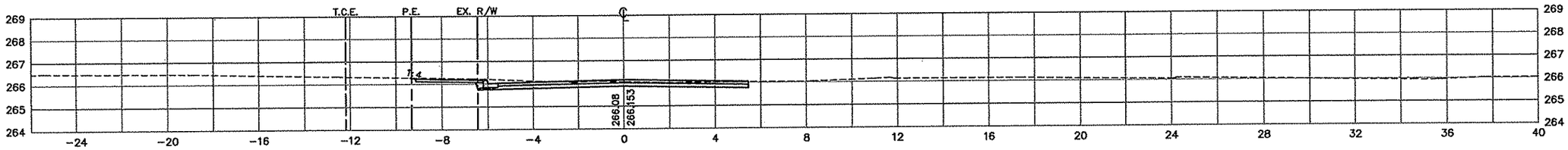
CITY PROJECT 98-20

S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

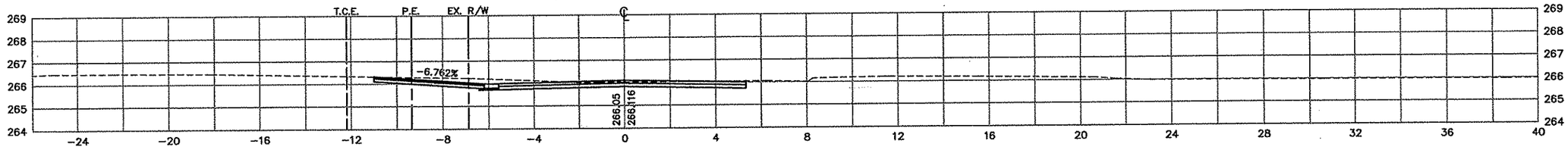
SHEET NO. 527 / 539

PLOT DATE: Aug 09, 2000 9:53am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_set\124xs-01.dwg

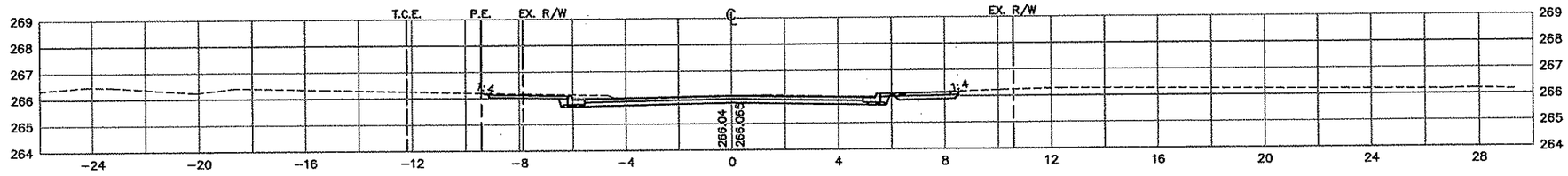
1+372.329 (℄ HEATHER ST. – RIGHT)



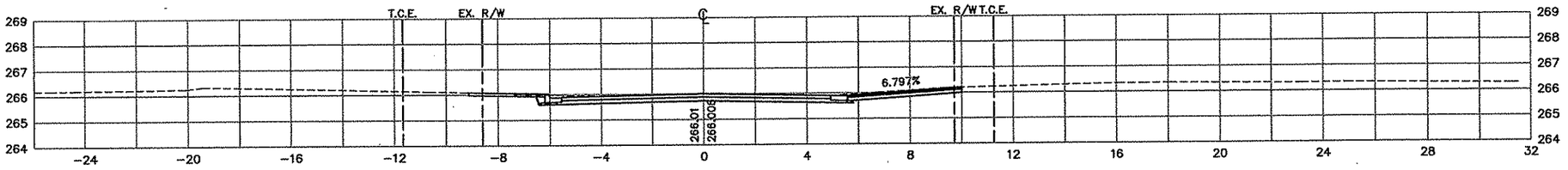
(℄ DRIVEWAY – LEFT) 1+367.221



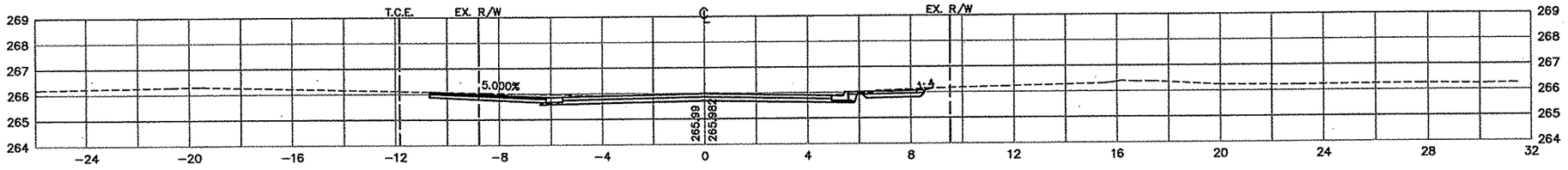
1+360



1+351.803 (℄ DRIVEWAY – RIGHT)



(℄ DRIVEWAY – LEFT) 1+348.394



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PALNTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 124XS-02
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVENUE
CROSS SECTIONS
STATION 1+348.394 TO STATION 1+372.329

CITY PROJECT 98-20

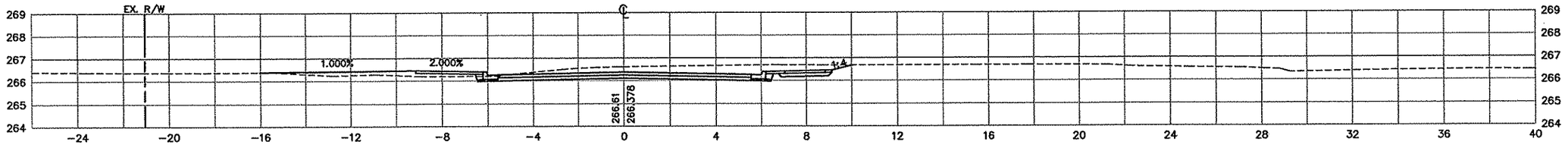
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 528 / 539

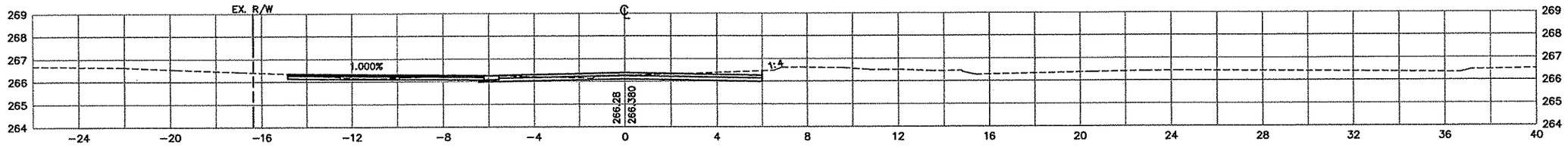
PLOT DATE: Aug 09, 2000 10:00am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\124xs-02.dwg
MTH-XS

4TH-XS

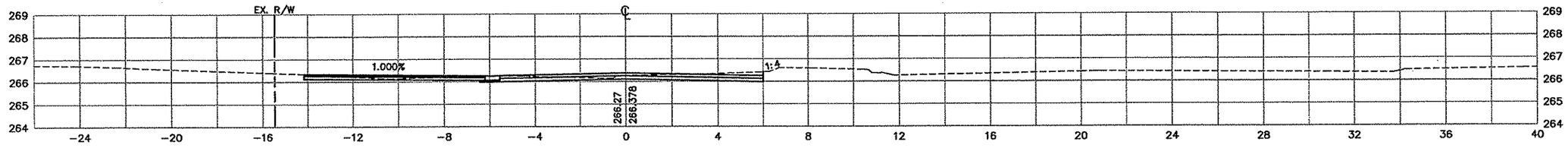
1+420



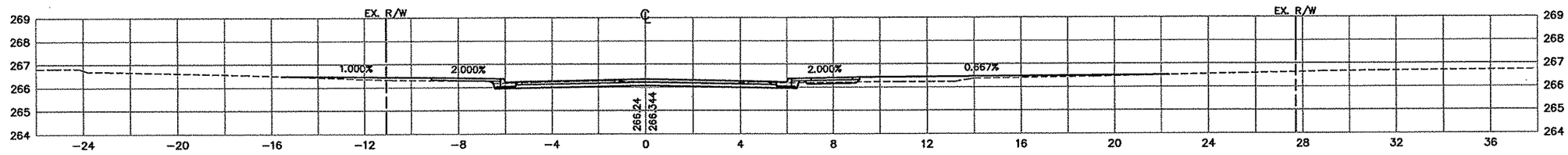
(DRIVEWAY – LEFT) 1+411.723 (℄ GLADIOLA ST. – RIGHT)



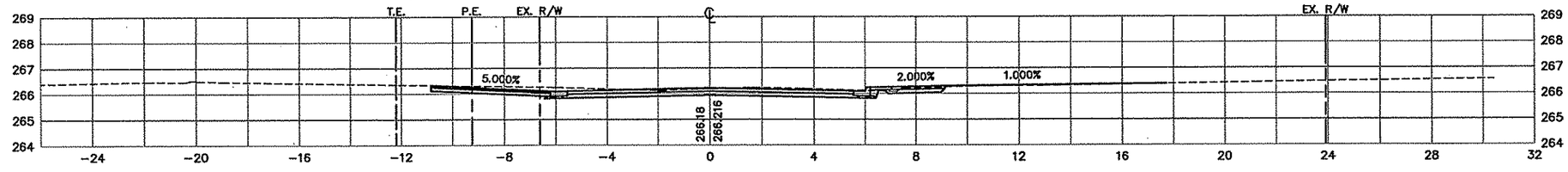
(℄ DRIVEWAY – LEFT) 1+409.919



1+400



(℄ DRIVEWAY – LEFT) 1+381.131



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 124XS-03
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVENUE
CROSS SECTIONS
STATION 1+381.131 TO STATION 1+420.000

CITY PROJECT 98-20

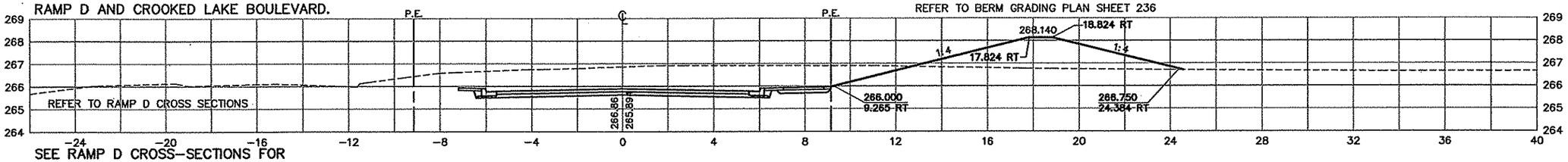
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 529 / 539

PLOT DATE: Aug 09, 2000 10:01am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\124xs-03.dwg

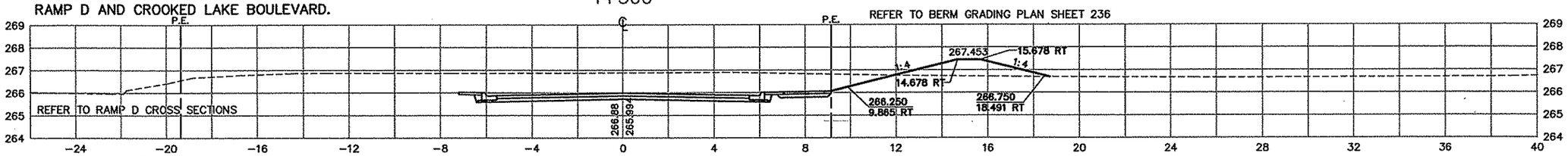
SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+520



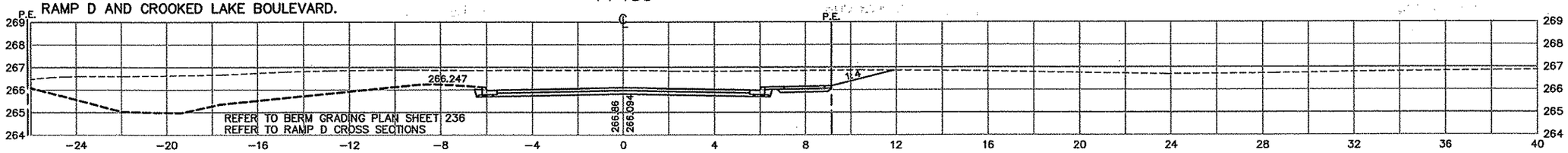
SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+500

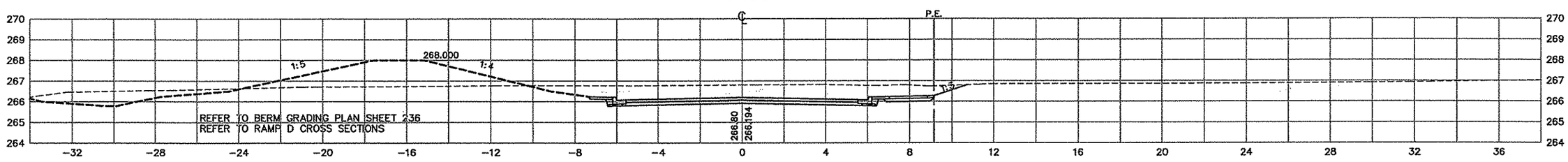


SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

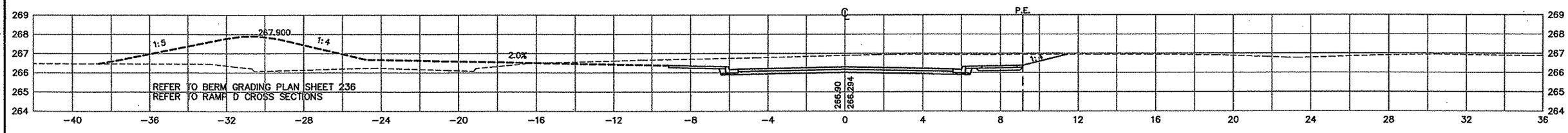
1+480



1+460



1+440



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	8/09/00	CLARIFICATION REQ.#7: ADDED BERMS TO CROSS SECTIONS
2	JJL	8/15/00	MOD. REQ. #58: MOD. CROSS-SECTION AT 1+460
3	JJL	11/28/00	MOD. REQ. #72: MOD. BERM ON WEST SIDE
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: 124XS-04
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVENUE
CROSS SECTIONS
STATION 1+440.000 TO STATION 1+520.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

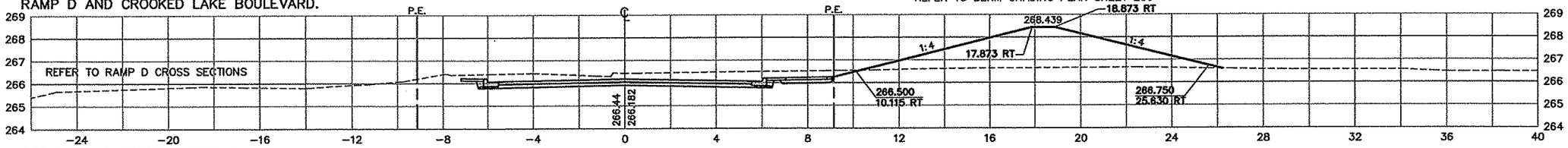
SHEET NO. 530 / 539

APBOX
24TH-XS
PLOT DATE: Nov 22, 2000 2:14pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\33od9W\XSEC\plan_sht\124xs-04.dwg

SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+620

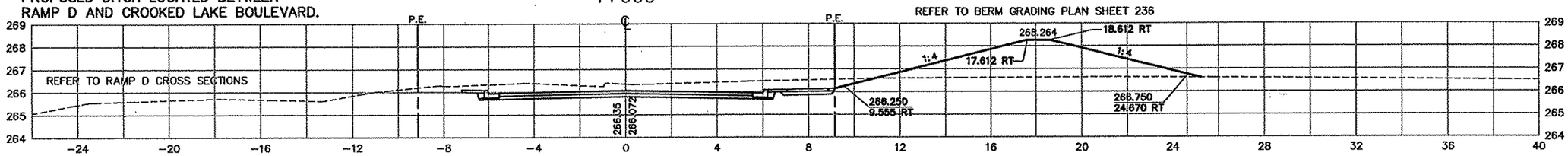
REFER TO BERM GRADING PLAN SHEET 236



SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+600

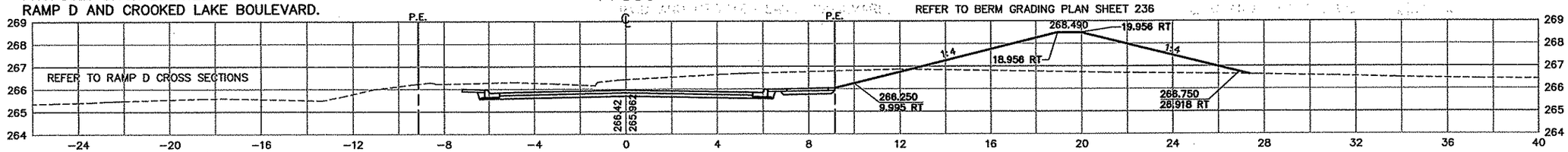
REFER TO BERM GRADING PLAN SHEET 236



SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+580

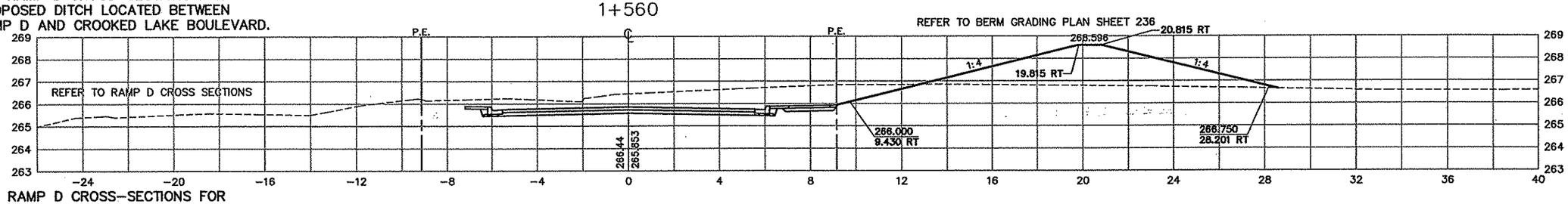
REFER TO BERM GRADING PLAN SHEET 236



SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+560

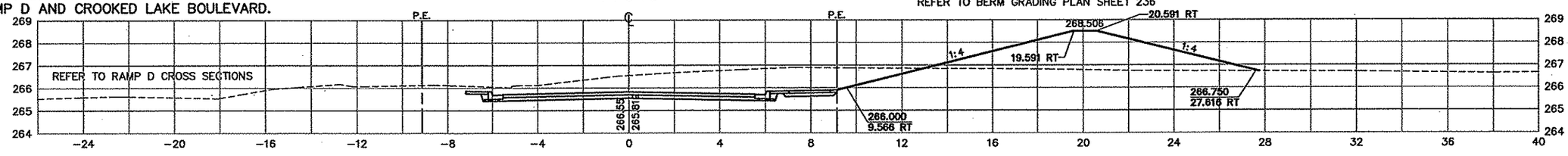
REFER TO BERM GRADING PLAN SHEET 236



SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+540

REFER TO BERM GRADING PLAN SHEET 236



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	8/09/00	CLARIFICATION REQ.#7: ADDED BERMS TO CROSS SECTIONS
2	JJL	11/29/00	MOD. REQ. #72: MOD. BERM ON WEST SIDE
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 124XS-05
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BOULEVARD
CROSS SECTIONS
STATION 1+540.000 TO STATION 1+620.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

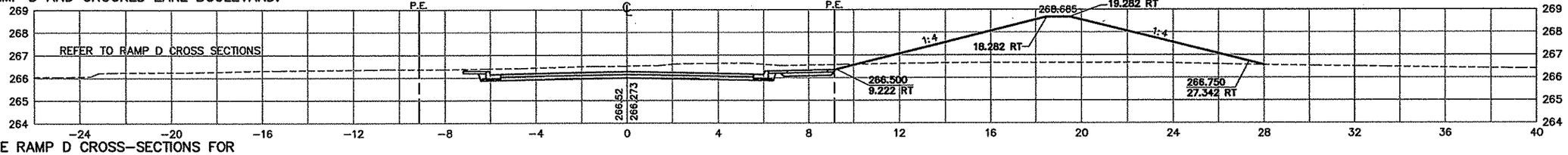
SHEET NO. 531 / 539

PLOT DATE: Nov 22, 2000 2:13pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33689\33889028\33d9W\XSEC\plan_sht\124xs-05.dwg
APBOX 24TH-XS

APBOX
24TH-XS

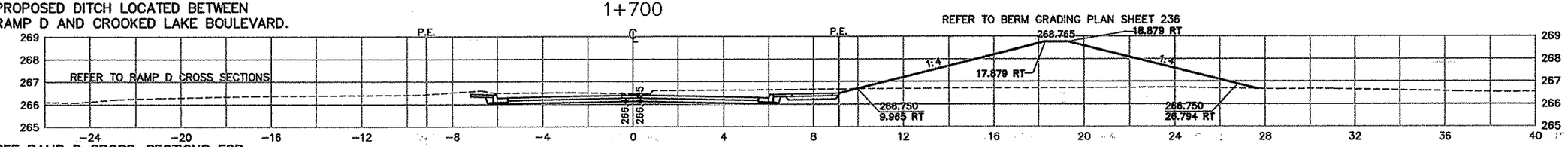
SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+720



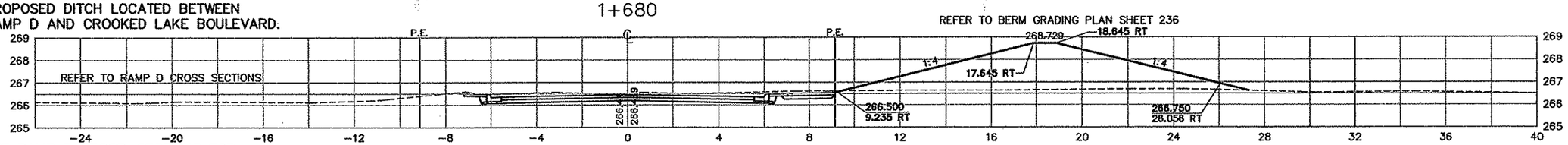
SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+700



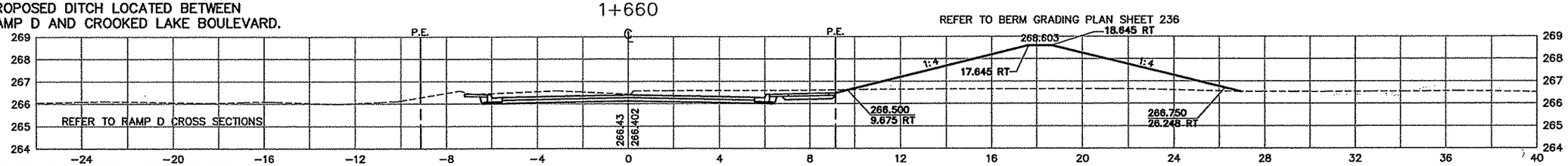
SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+680



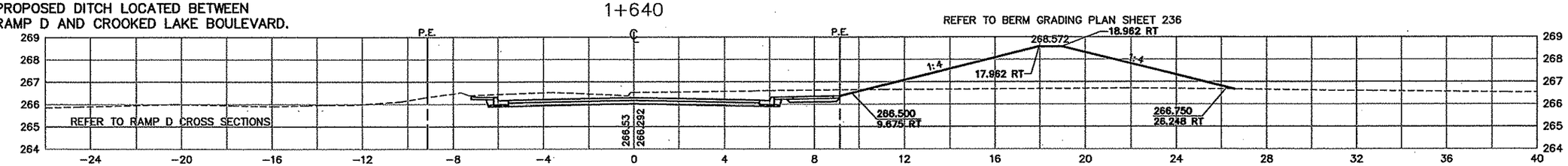
SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+660



SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+640



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	8/09/00	CLARIFICATION REQ.#7: ADDED BERMS TO CROSS SECTIONS
2	JJL	11/29/00	MOD. REQ. #72: MOD. BERM ON WEST SIDE
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: 124XS-06
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BOULEVARD
CROSS SECTIONS
STATION 1+640.000 TO STATION 1+720.000

CITY PROJECT 98-20

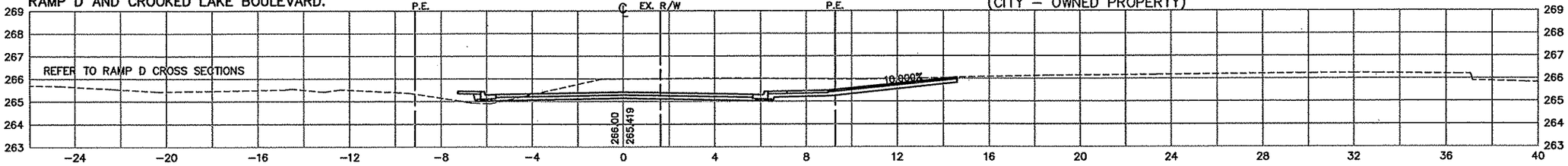
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 532 / 539

PLOT DATE: Nov 22, 2000 2:17pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\33b89W\XSEC\plan_sht\124xs-06.dwg

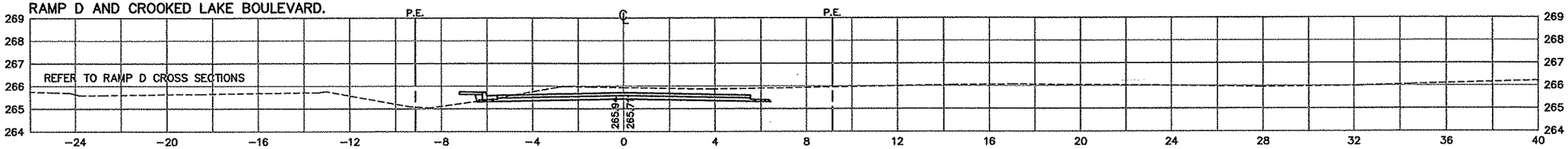
SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+793.194 (℄ DRIVEWAY – RIGHT)



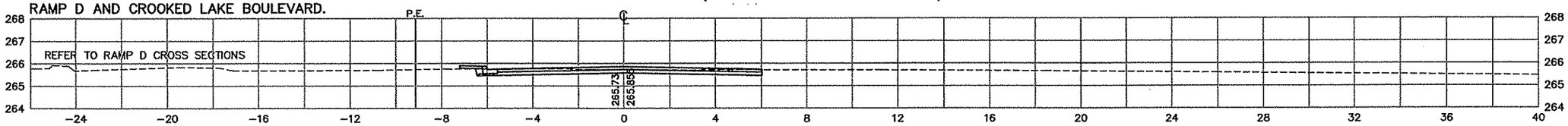
SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+780



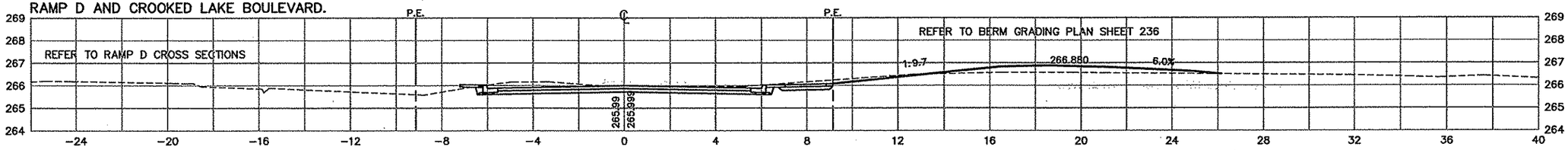
SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+771.656 (℄ 123RD AVE. – RIGHT)



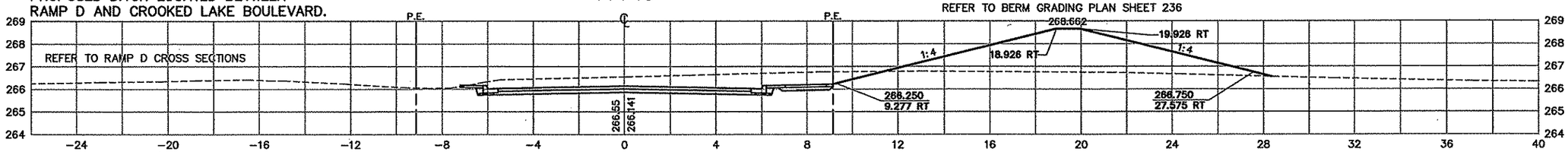
SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+760



SEE RAMP D CROSS-SECTIONS FOR PROPOSED DITCH LOCATED BETWEEN RAMP D AND CROOKED LAKE BOULEVARD.

1+740



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	8/09/00	CLARIFICATION REQ. #7: ADDED BERMS TO CROSS SECTIONS
2	JJL	11/29/00	MOD. REQ. #72: MOD. BERM ON WEST SIDE
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKED. BY: PBD
DWG. NAME: 124XS-07
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BOULEVARD
CROSS SECTIONS
STATION 1+740.000 TO STATION 1+793.194

CITY PROJECT 98-20

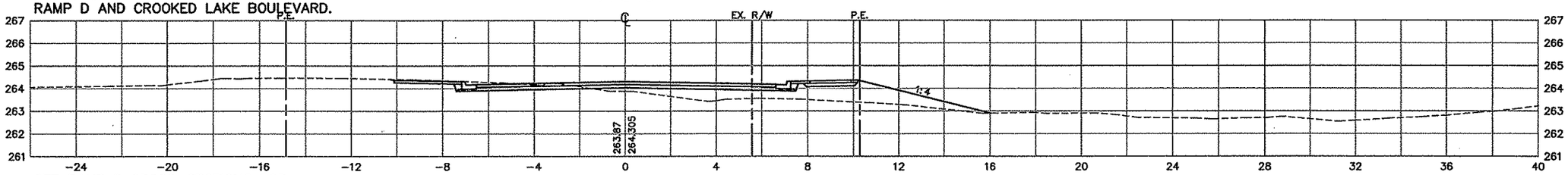
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 533 / 539

PLOT DATE: Nov 28, 2000 3:54pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\33d9W\XSEC\plan_sht\124xs-07.dwg

SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.

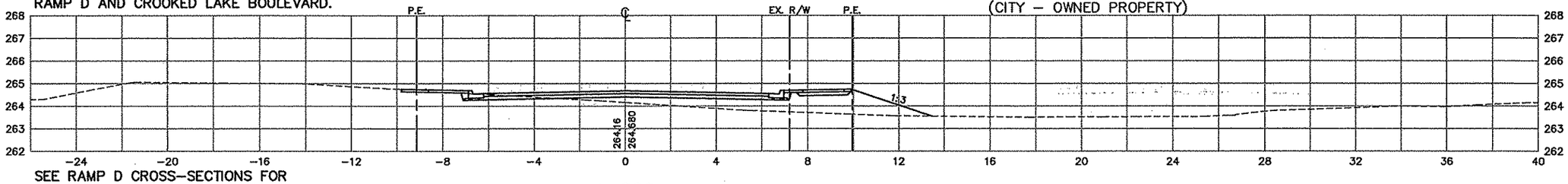
1+840



SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.

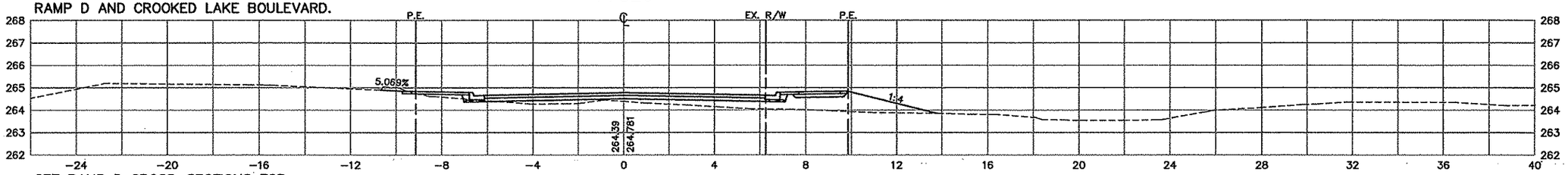
1+824.273 (℄ OLD DRIVEWAY – RIGHT)

(CITY – OWNED PROPERTY)



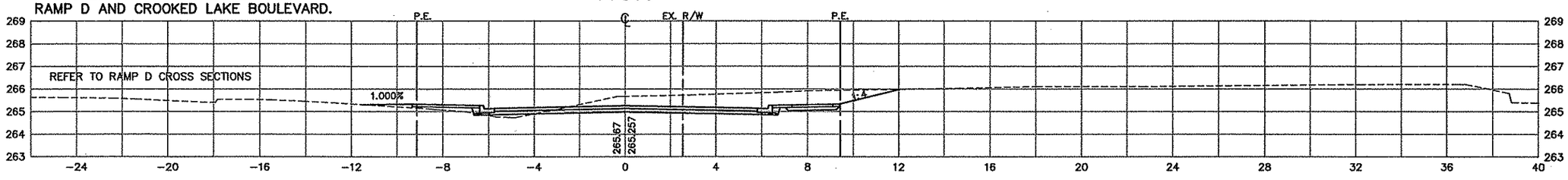
SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.

1+820



SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.

1+800



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 124XS-08
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BOULEVARD

CROSS SECTIONS
STATION 1+800.000 TO STATION 1+840.000

CITY PROJECT 98-20

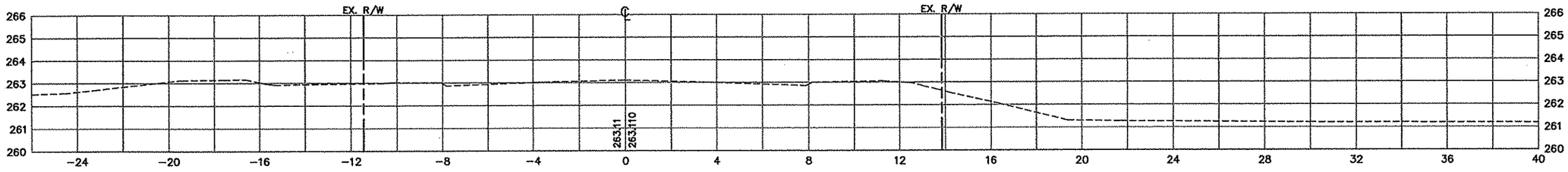
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. 534 / 539

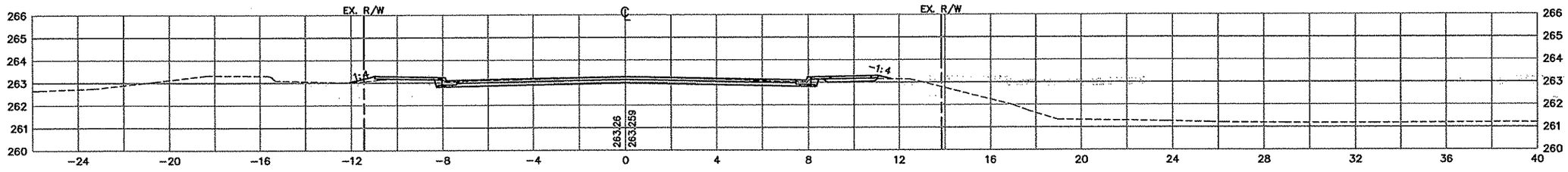
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14TH-XS

APBOX
24TH-XS

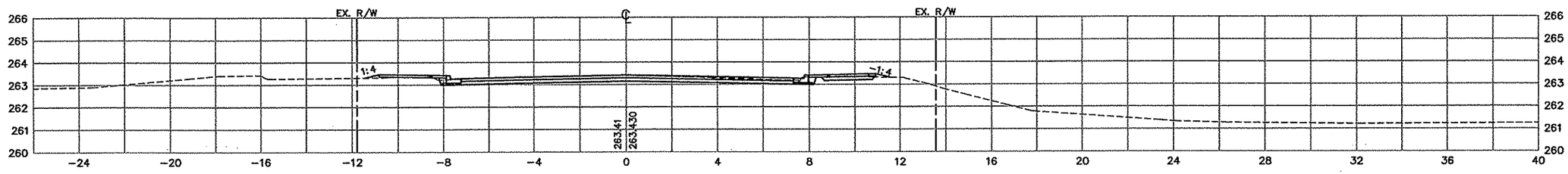
1+900



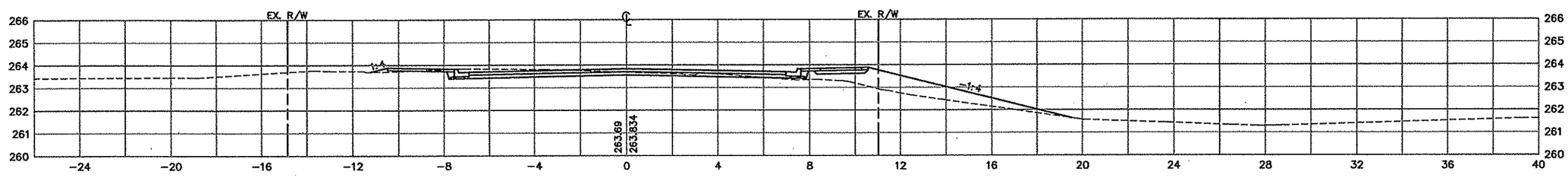
1+890.104



1+880



1+860



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L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: 124XS-09
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BOULEVARD
CROSS SECTIONS
STATION 1+860.000 TO STATION 1+900.000

CITY PROJECT 98-20

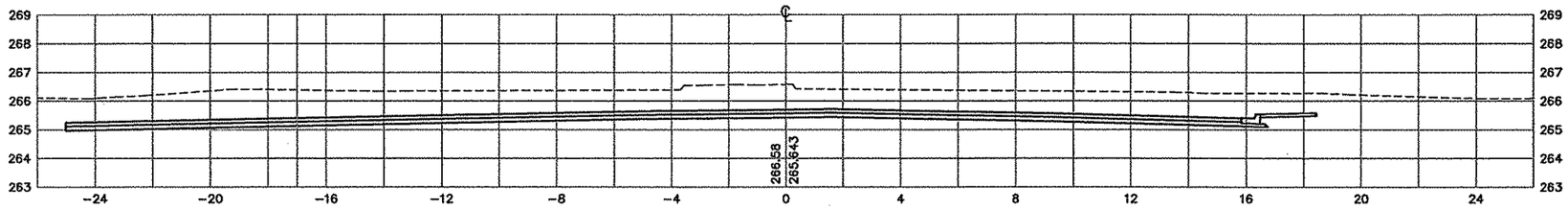
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 535 / 539

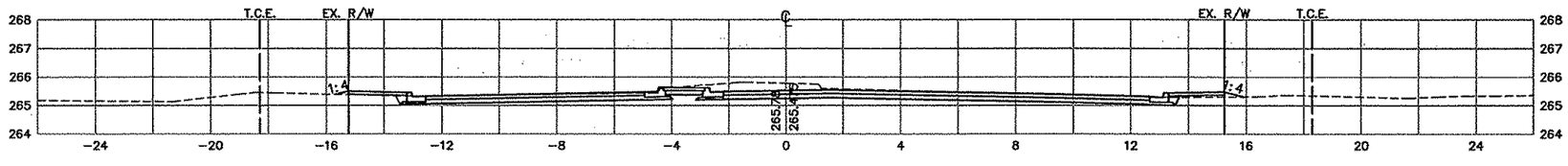
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ALL DRAWINGS
APBOX
OSE-XS

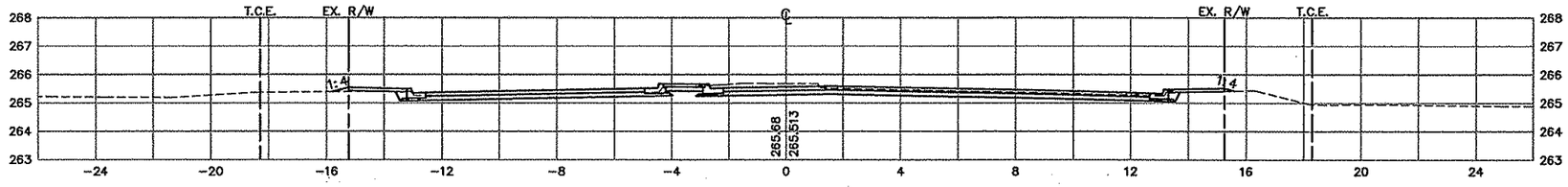
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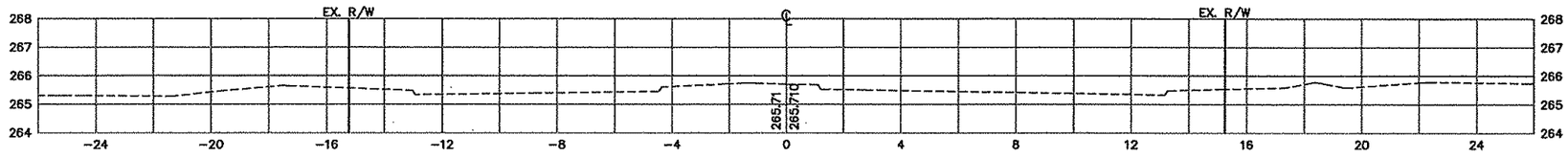
0+960



0+952



0+940



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L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: ROSEXS-1
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(812)370-1378 (FAX)

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVER RAPIDS DRIVE
CROSS SECTIONS
STATION 0+940.000 TO STATION 0+980.500

CITY PROJECT 98-20

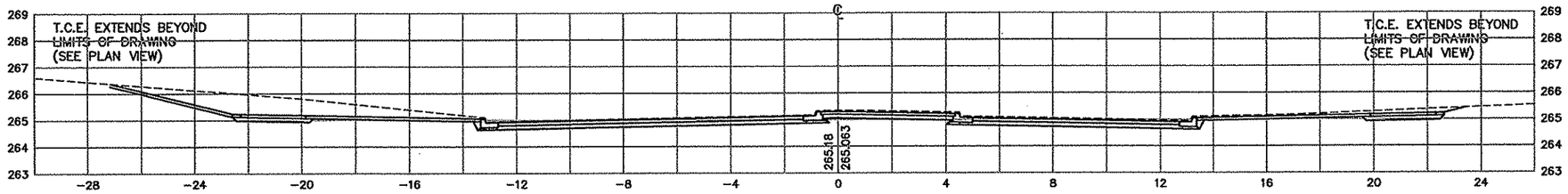
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 536 / 539

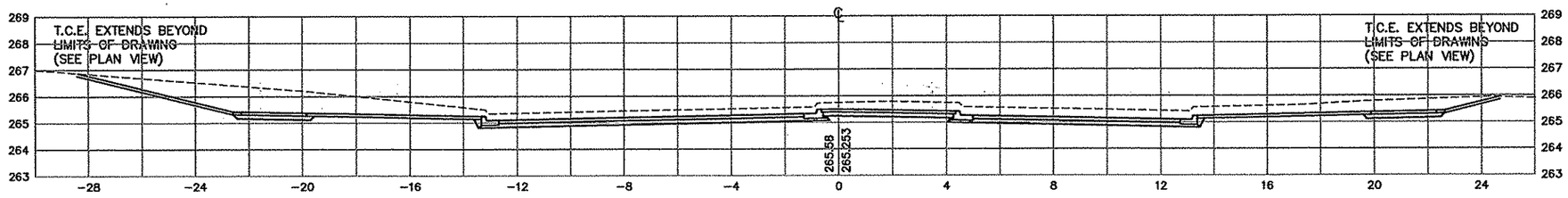
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APBOX
OSE-XS

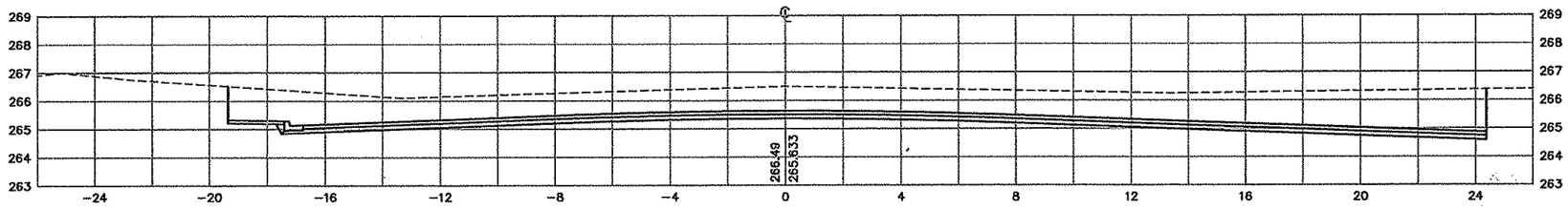
1+050



1+040



1+020



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L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: ROSEXS-2
DATE: NOVEMBER 5, 1999

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVER RAPIDS DRIVE
CROSS SECTIONS
STATION 1+020.000 TO STATION 1+050.000

CITY PROJECT 98-20

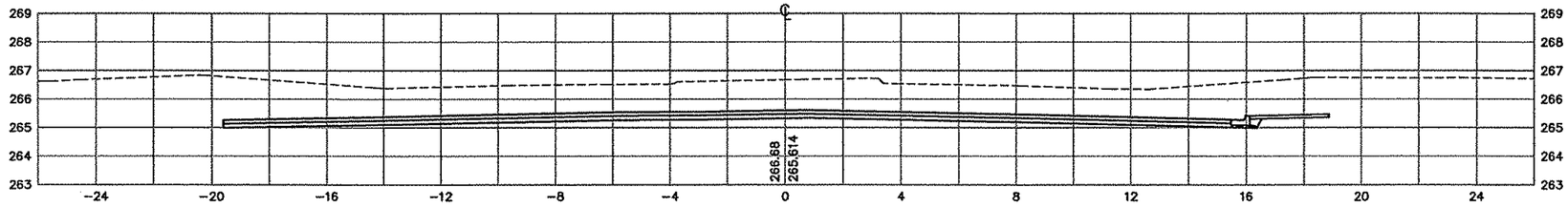
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 537 / 539

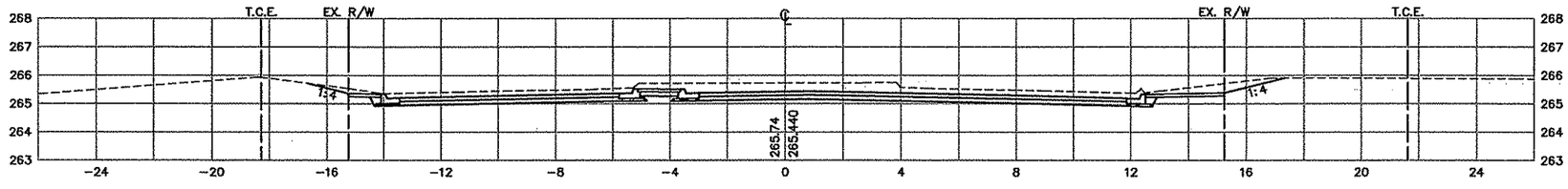
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XREF DRAWINGS
POPP-XS
CAPBOX

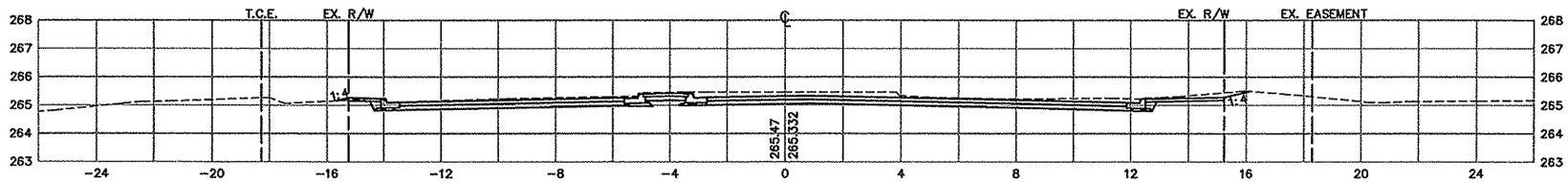
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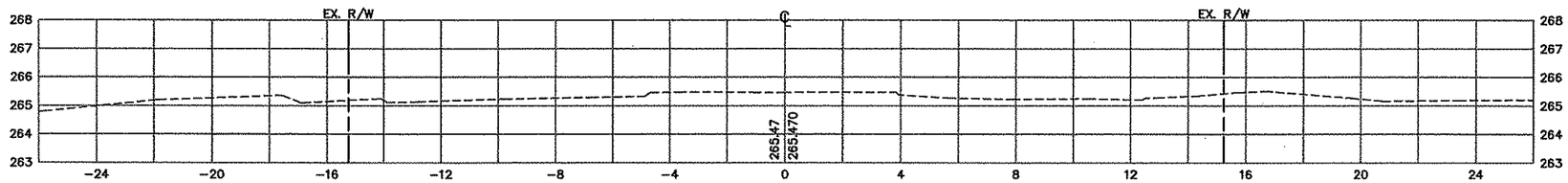
0+960



0+941.253



0+940



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T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: POPPXS-1
DATE: NOVEMBER 5, 1999

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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVERDALE VILLAGE BOULEVARD
CROSS SECTIONS
STATION 0+940.000 TO STATION 0+980.500

CITY PROJECT 98-20

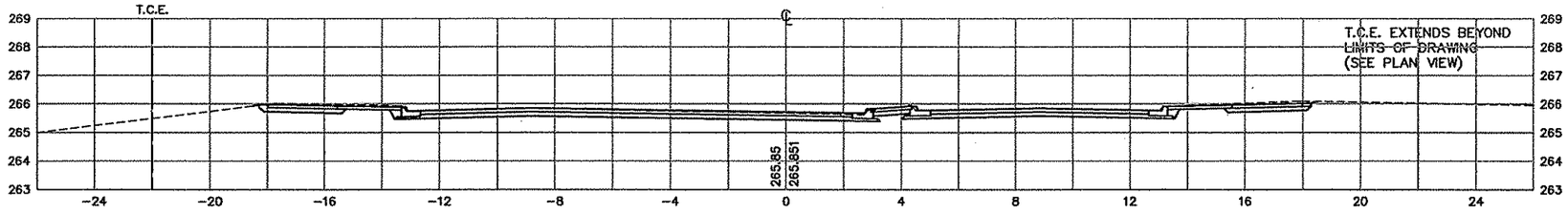
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 538 / 539

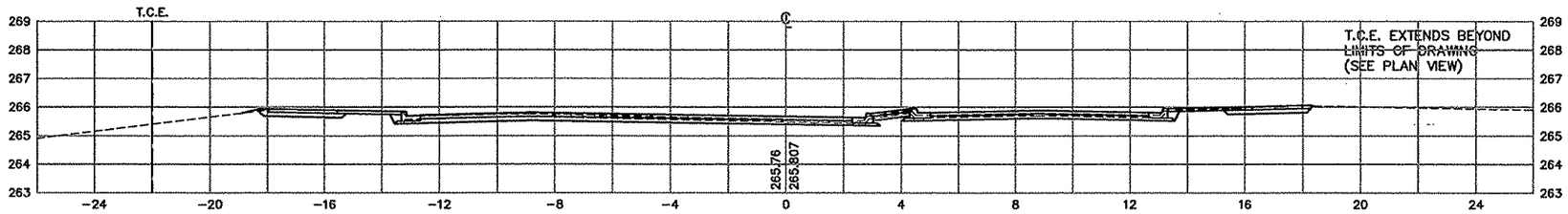
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OPP-XS
APBOX

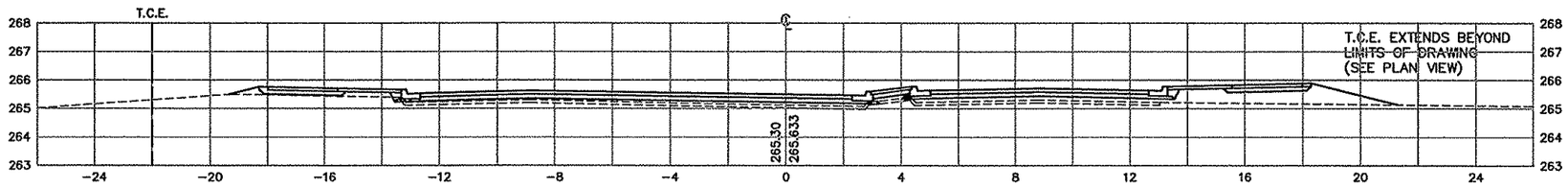
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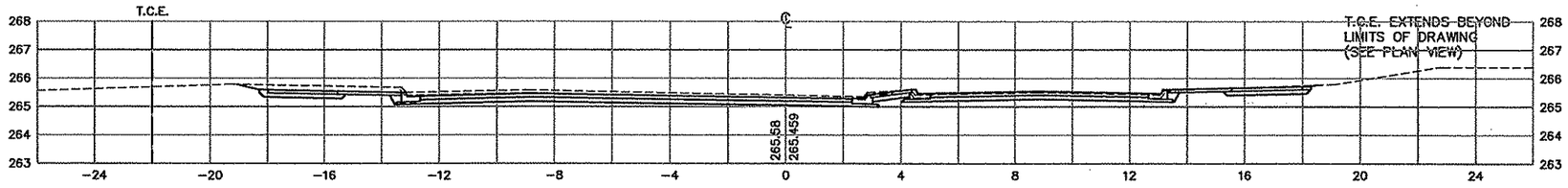
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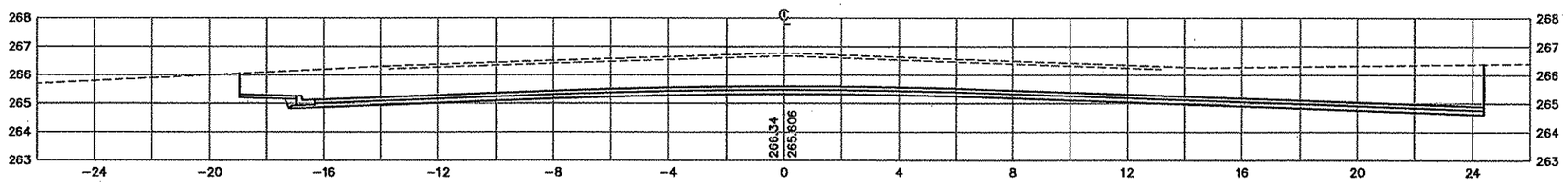
1+060



1+040



1+020



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L.E.	PLANTING EASEMENT
T.E.	TRAIL EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ | DESIGN BY: KPK
CHKED. BY: PBD | DWG. NAME: POPPXS-2
DATE: NOVEMBER 5, 1999

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DCM GROUP
BRW
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THRESHER SQUARE
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DATE:_____ MINN. REG. NO._____

MAIN STREET/T.H. 242 RECONSTRUCTION
RIVERDALE VILLAGE BOULEVARD

CROSS SECTIONS
STATION 1+020.000 TO STATION 1+085.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 539 / 539

PLOT DATE: Jan 03, 2000 11:06am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_snt\POPPxs-2.dwg

SAPBOX

REMOVALS (3+820 - 3+868)			
ITEM #	ITEM	UNITS	QUANTITY
2104.501	Remove Curb and Gutter	m	48.0
2104.501	Remove Sewer Pipe (Storm)	m	5.0
2104.503	Remove Bituminous Pavement	m2	290.0
2104.509	Remove Catch Basin	Each	1.0
2104.513	Sawing Bit Pavement (Full Depth)	m	60.0
2104.521	Salvage Pipe Culvert	m	16.9
2104.523	Salvage Apron	Each	3.0
2104.523	Salvage Control Structure (Baffled Weir)	Each	1.0
2104.523	Salvage Casting	Each	1.0

EARTHWORK			
ITEM #	ITEM	UNITS	QUANTITY
2105.501	Common Excavation (Pond Area - Phase 1)	m3	1779.0
2105.501	Common Excavation (Suitable - Phase 2)	m3	3035.0
2105.501	Common Excavation (Unsuitable - Phase 2)	m3	819.0
2105.501	Common Excavation (Roadway - Phase 3)	m3	220
2105.501	Common Excavation (Toe Berm - Phase 3)	m3	75.0
2105.521	Granular Borrow (LV) (Berm - Phase 1)	m3	9587.0
2105.607	Topsoil Placement (CV) (Phase 2)	m3	1450.0
2105.607	Topsoil Placement (CV) (Phase 3)	m3	352.0

PAVING (3+820 - 3+868)			
ITEM #	ITEM	UNITS	QUANTITY
2105.604	Geogrid	m2	375.0
2105.607	Select Granular Borrow (CV) (P)	m3	125.0
2211.503	Aggregate Base (CV) Class 5 (P)	m3	80.0
2357.502	Bituminous Material for Tack Coat	L	133.0
2360.609	Type SP 12.5 Wearing Course Mix (4,F)	T	34.0
2360.609	Type SP 19.0 Non-Wear Mix (4,B)	T	51.0
2531.501	Concrete Curb & Gutter B424 (Mod)	m	48.0

STORM SEWER			
ITEM #	ITEM	UNITS	QUANTITY
2501.57	Install Pipe Culvert	m	16.9
2501.573	Install Concrete Apron	Each	3.0
2503.541	375mm RC Pipe Sewer Des 3006 CL III	m	5.0
2503.602	Connect to Existing Storm Sewer	Each	2.0
2506.501	Const. Drainage Structure 1200mm Des 4020	m	1.3
2506.521	Install Casting	Each	1.0
2506.602	Install Control Structure (Baffled Weir)	Each	1.0
2511.501	Random Riprap Class III	m3	15.6
2511.515	Geotextile Filter Type IV	m2	38.5
2511.515	Geotextile Fabric Type V	m2	3500.0

SEEDING AND RESTORATION			
ITEM #	ITEM	UNITS	QUANTITY
2575.501	Seeding	ha	0.27
2575.502	Seed Mixture Special 2	kg	2.6
2575.502	Seed Mixture Special 3	kg	10.7
2575.511	Mulch Material Type 7B	t	1.0
2575.519	Disc Anchoring	ha	0.27
2575.532	Commercial Fertilizer 22-6-10	kg	151.0

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD REQ #71: ADDED NEW PLAN SHEET
2	JJL	12/18/00	MOD. REQ. #71A: MODIFIED EARTHWORK QUANTITIES
3	JJL	9/19/01	MOD. REQ. #71C: ADDED GEOGRID BENEATH PAVEMENT
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JJL | DESIGN BY: JJL
CHKED. BY: KPK | DWG. NAME: PVTFAILTAB
DATE: NOVEMBER 27, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H. 242)
TABULATED QUANTITIES
PAVEMENT FAILURE REMEDIATION

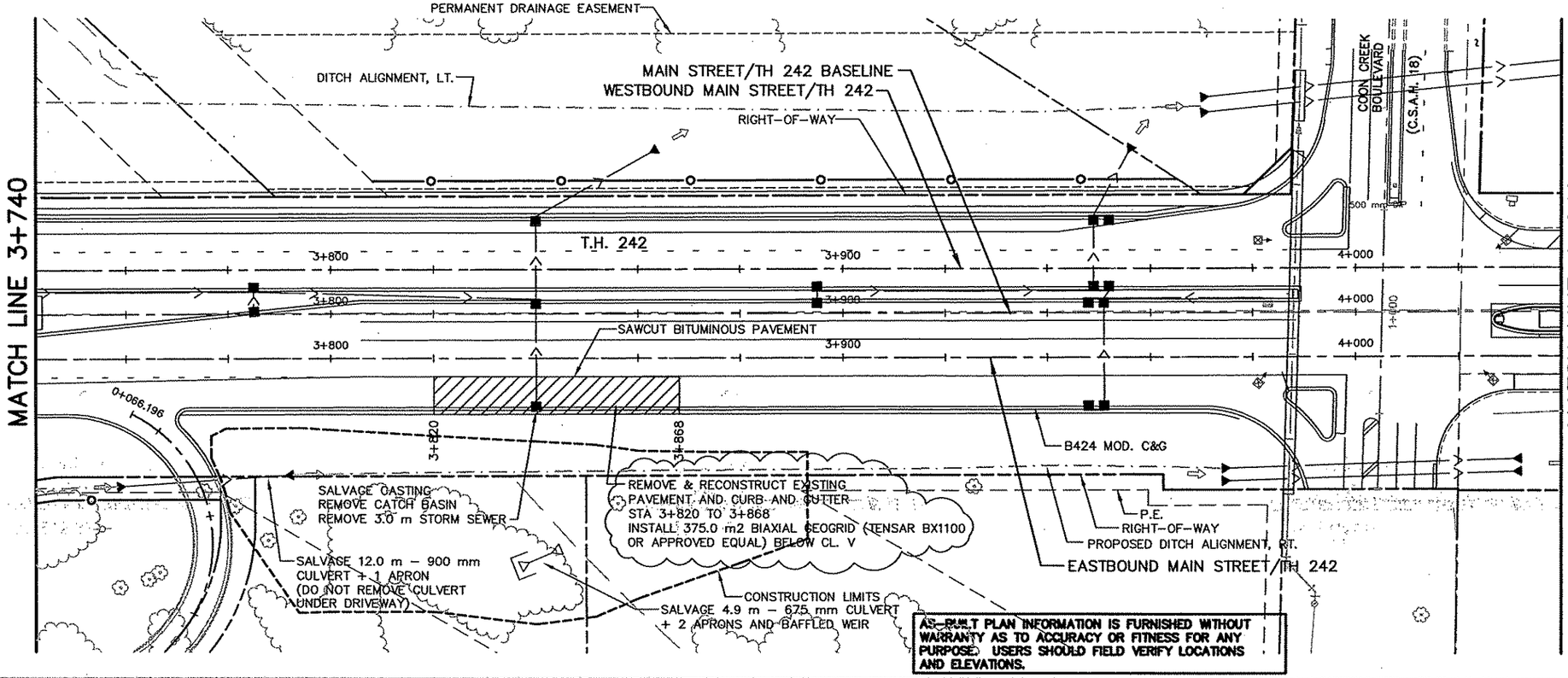
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

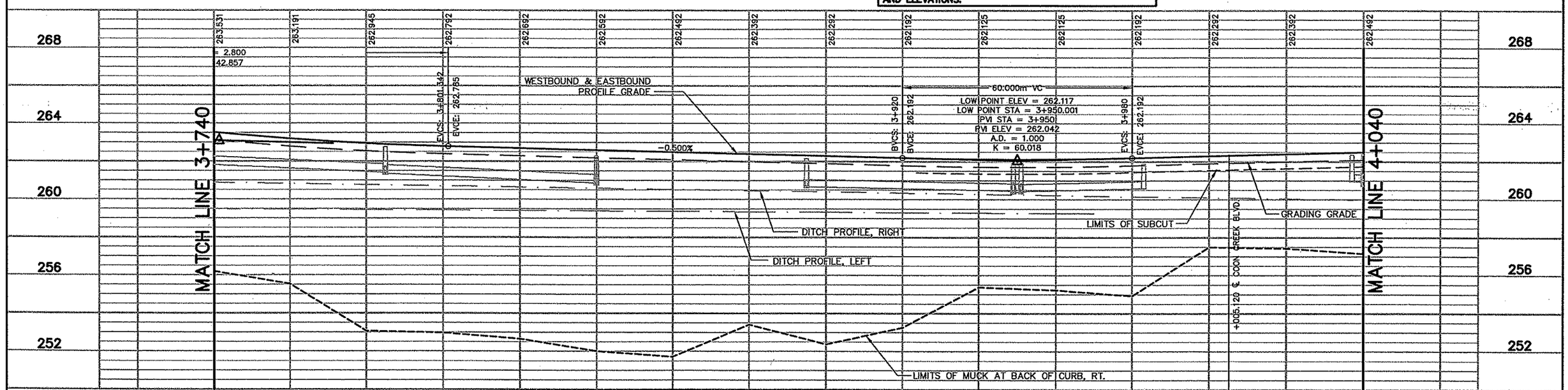
SHEET NO. A1 / A17

DISK FILE NAME: PLOT DATE:
Aug 03, 2004 9:17am (15.06) R:\33889\33889028\33889E\Modreq71\pln-sht\pvtfailtab.dwg

42PLN2A
APBOX
42E_DRN
42E-TXT
42E-PLN
42F_PLM
42
42
42-ESUM
42-EUT
42MHVEG
42MHETO



NOTE:
RECONSTRUCT ROADWAY ACCORDING TO TH 242 PLAN SET. REFER TO PLAN SHEET 140/539.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	9/19/01	MOD. REQ. #71C: ADDED NOTE FOR INSTALLING GEOGRID
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK/JJL
CHKED. BY: PBD/KPK
DWG. NAME: MR71PP07
DATE: NOVEMBER 27, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Fiedler
DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/(TH 242)
REMOVALS FOR TOE BERM CONSTRUCTION
STATION 3+740.000 TO STATION 4+040.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. A2 / A17

PLOT DATE: Aug 0., ..04 9:34am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\...-sht\MR71pp07.dwg

WETLAND
12-ESUM
FAILXSI
FAILCTN
12PLN2A
12M[illegible]
S[illegible]
14[illegible]
12E-PLN
12E_DRN
12E-ALI
12E-CLM

MAIN STREET/TH 242 BASELINE

3+800

3+900

TH 242

CONNECT TO EXIST. STORM SEWER
INSTALL 5.0 m – 375 mm RCP CL III @ 0.50%

CB 120
~~839.914~~
STA. 3+~~840~~, ~~18.085~~ 18.716' RT
RE 262.~~281~~.222
IE 260.~~981~~ (N).975
INSTALL CASTING

CONNECT TO EXIST. STORM SEWER
INSTALL 12.0 m – 900 mm PIPE
CULVERT @ 0.30%

FES 514 .687 .534
STA. 3+792.~~609~~; 31.~~654~~ RT
INSTALL 900 mm PCP APRON
(IE = 860.~~722~~)
.609

5 0 5 10
HORIZONTAL SCALE
IN METERS

262.00
261.00
261.00
261.00
261.00
260.00
260.00

X 261.65
X 261.55
261.55 X
X 261.55
X 261.55
X 259.08
X 259.08

1:3
1:10
1:3
1:10
1:3

RIGHT-OF-WAY

FES 516
STA. 3+843.572, 46.908 RT
IE = 260.552

5.0 m3 CL III RIPRAP AND
14.0 m2 TYPE IV FILTER FABRIC

INSTALL 10.6 m3 CL III
RIPRAP AND 24.5 m2
TYPE IV FILTER FABRIC

FES 515
STA. 3+835.518,
49.924 RT
IE = 260.604

INSTALL 5.0 m – 675 mm RC PIPE
CULVERT @ 0.60% AND APRON
(SEE SHEET A4 OF A17 FOR CULVERT INFORMATION)

INSTALL CONTROL STRUCTURE (BAFFLED WIER)
(SEE SHEET A4 OF A17 FOR BAFFLED WIER INFORMATION)

CONSTRUCTION LIMITS

POND
NWL = 260.604
HWL = 261.52

EXISTING WETLAND BOUNDARY

262.00
261.00
260.00

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: JJL
DESIGN BY: KPK/JJL
CHKED. BY: KPK
DWG. NAME: FINALGRADE
DATE: NOVEMBER 27, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW GROUP
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/27/00 MINN. REG. NO. 23211

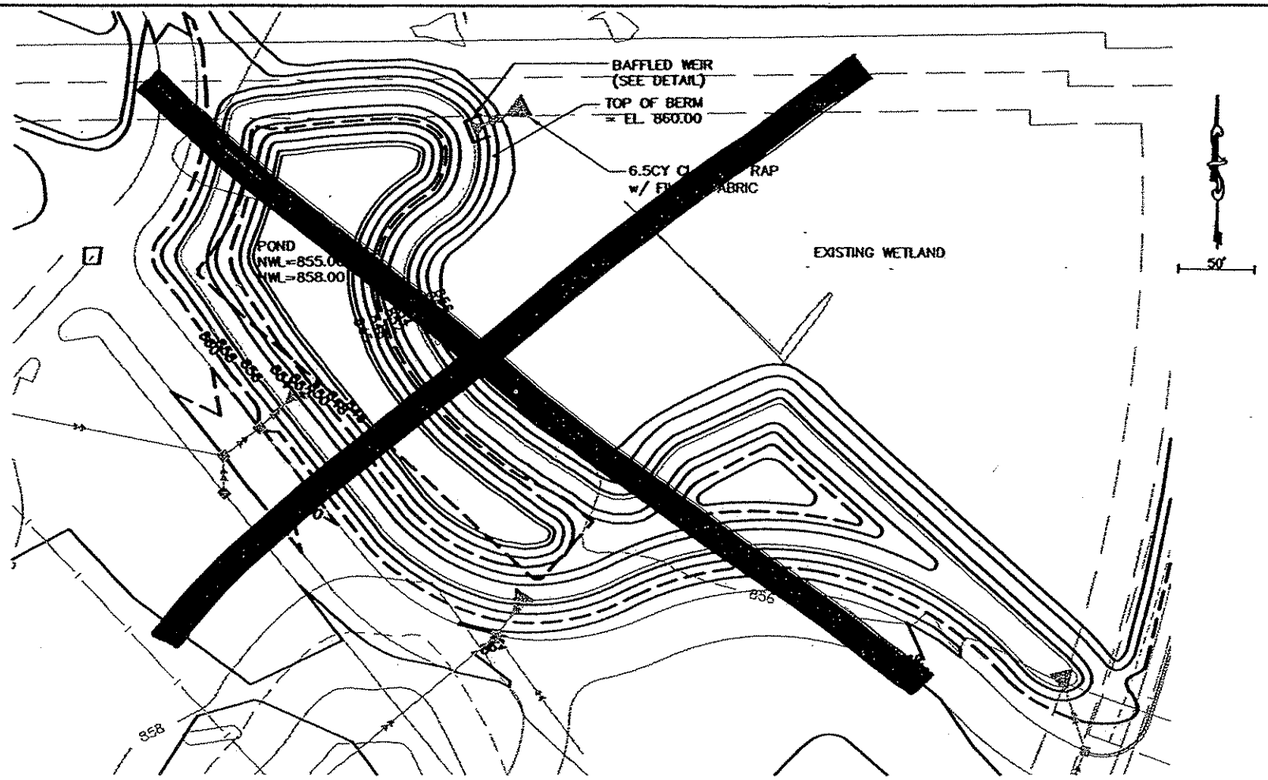
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
FINAL GRADING AND PROPOSED STORM SEWER
PROPOSED MARCUS THEATRE POND

CITY PROJECT 98-20

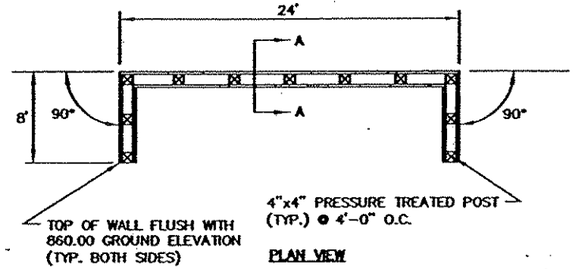
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. A3 / A17

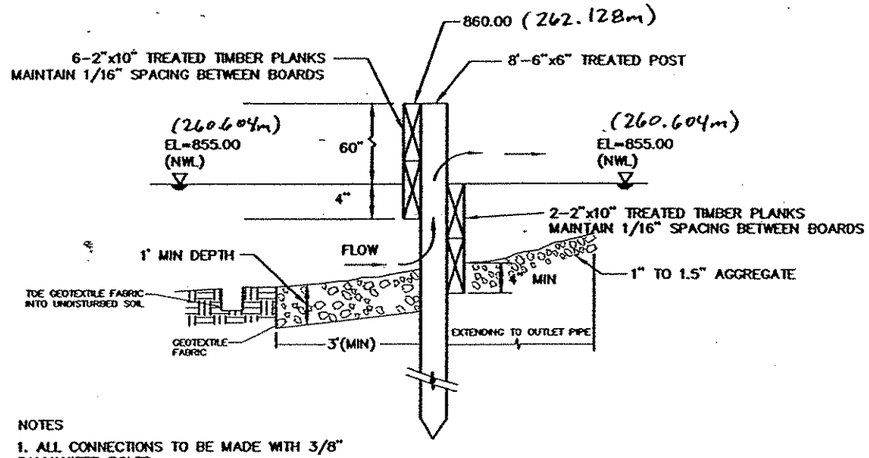
PLOT DATE: Dec 15, _:04 4:05pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\...-sht\finalgrade.dwg



NORTH POND



PLAN VIEW

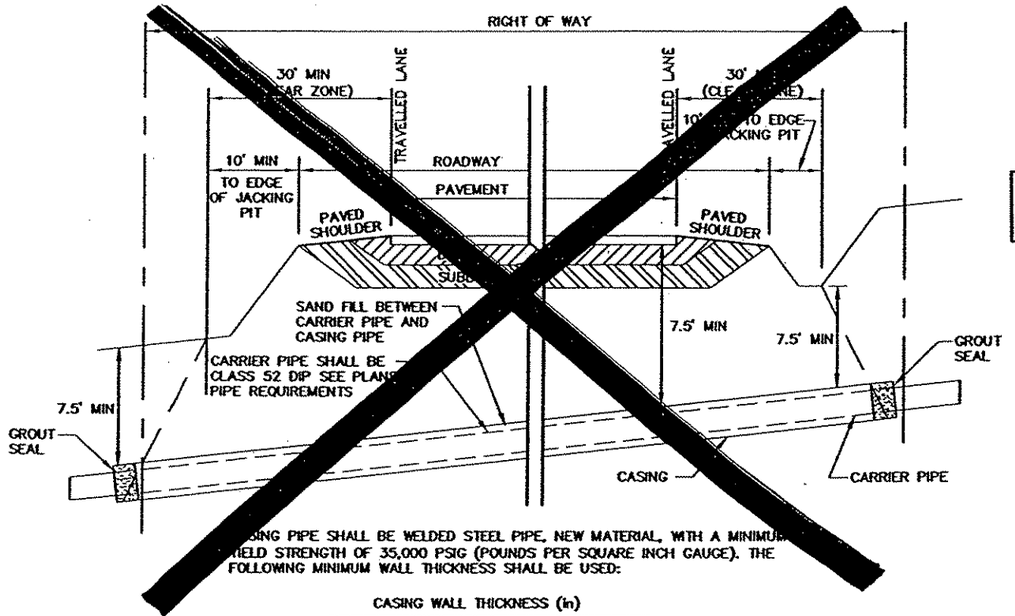


SECTION A-A

NOTES

1. ALL CONNECTIONS TO BE MADE WITH 3/8" GALVANIZED BOLTS
2. BURY TREATED PLANKS ON DOWNSTREAM END AS NEEDED AT SHORE-LINE EDGE. MATERIAL SHALL BE MnDOT FILTER AGG. 3149 & SHALL BE PLACED 8" BELOW BOTTOM OF PLANKS AND 12" EITHER SIDE.
3. BID ITEM FOR BAFFLED WEIR SHALL INCLUDE ALL WOOD MATERIALS, BOLTS, ALL AGGREGATE SHOWN IN THE ASSOCIATED DETAILS, FILTER FABRIC, GRADING, INSTALLATION AND ALL ELSE NECESSARY FOR A COMPLETE INSTALLATION.

BAFFLED WEIR DETAIL



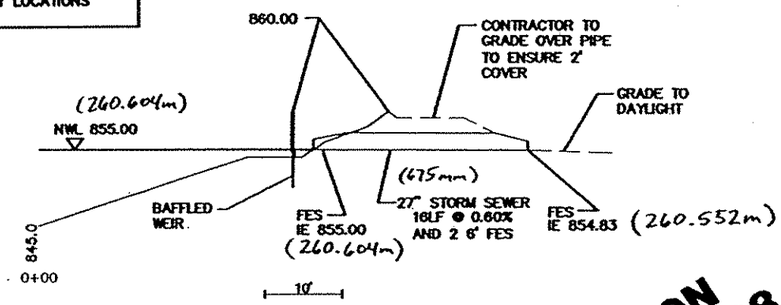
SING PIPE SHALL BE WELDED STEEL PIPE, NEW MATERIAL, WITH A MINIMUM IELD STRENGTH OF 35,000 PSIG (POUNDS PER SQUARE INCH GAUGE). THE FOLLOWING MINIMUM WALL THICKNESS SHALL BE USED:

CASING WALL THICKNESS (in)

OUTSIDE DIAMETER	UNDER HIGHWAY
12" TO 24"	0.250
30"	0.375
36" TO 42"	0.500

PIPE JACKING DETAIL

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



INPLACE BAFFLED WEIR DETAIL AND POND GRADING FOR INFORMATION ONLY

THIS SHEET IN ENGLISH UNITS

CONSTRUCTION REVISED 11-03-98

REV. NO.	DATE	DESCRIPTION
1	11/03/98	UTILITIES REVISED DUE TO CHANGE IN SITE PLAN

DESIGN FILE: 33889024
DESIGN BY: KPK
DRAWN BY: PF
DWG. NAME: MTPF6
CHKED. BY: PBD
DATE:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA STATUTES SECTION 326.02 TO 326.16.

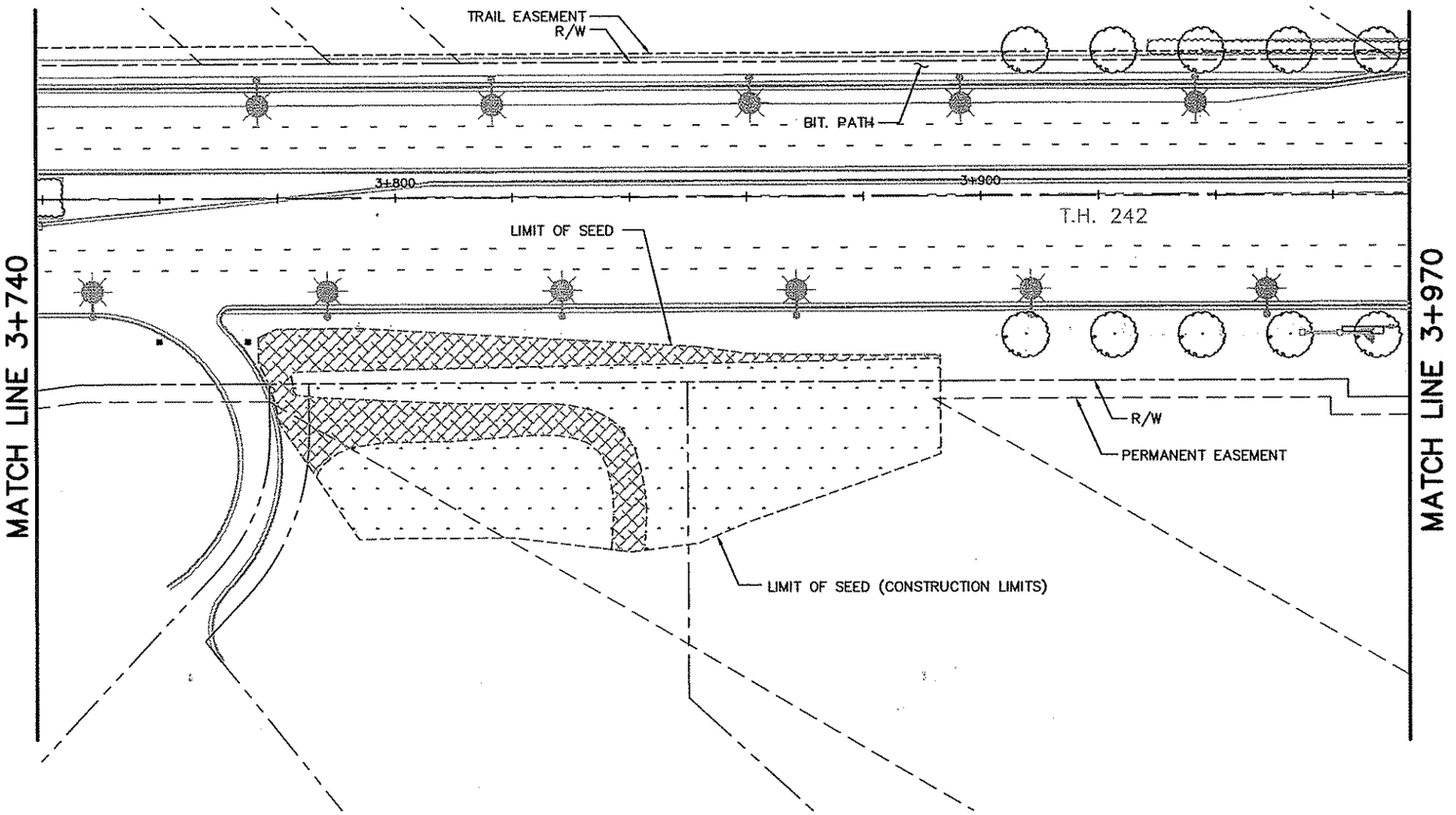
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)
BRW
A DAMES & MOORE GROUP COMPANY

CITY OF COON RAPIDS
MARCUS THEATER
CITY PROJECT NO. 98-26
NORTH POND
BAFFLED WEIR/STORM SEWER

SHEET NO.
A4
A17

DISK FILE NAME: (14\...\33889\33889024\PLAN-SHT\MTPF8.DWG
PLOT DATE: Nov 03, 1998 8:55am

IR71SEED
42-ESUM
42MHETO
APBOX
42-SEED
42E-PLN
42E-CLM
42E-ALI



5 0 10 20
HORIZONTAL SCALE
IN METERS

LEGEND:

- SOD
- SEED MIXTURE SPECIAL 1
- SEED MIXTURE SPECIAL 2
- SEED MIXTURE SPECIAL 3
- SEED MIXTURE 50A

NOTE: LIMIT OF SOD/LIMIT OF SEED = LIMIT OF CONSTRUCTION
APPLY SEED MIXTURE SPECIAL 3 BETWEEN ELEVATIONS 258 – 261.25
APPLY SEED MIXTURE SPECIAL 2 ABOVE ELEVATION 260.75
OVERLAP SEED MIXTURES 2 AND 3 BETWEEN ELEVATIONS 260.75 AND 261.25

NOTE: FOR SEEDING OUTSIDE THE CONSTRUCTION LIMITS FOR PAVEMENT FAILURE REMEDIATION, REFER TO TH 242 PLAN SHEET 271/539.

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	11/27/00	MOD. REQ. #71: ADDED PLAN SHEET
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: TPH
CHKED. BY: TPH
DWG. NAME: RESTORATION
DATE: NOVEMBER 27, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

DATE: 11/27/00 MINN. REG. NO. 24900

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242

PAVEMENT FAILURE REMEDIATION RESTORATION PLAN

CITY PROJECT 98-20

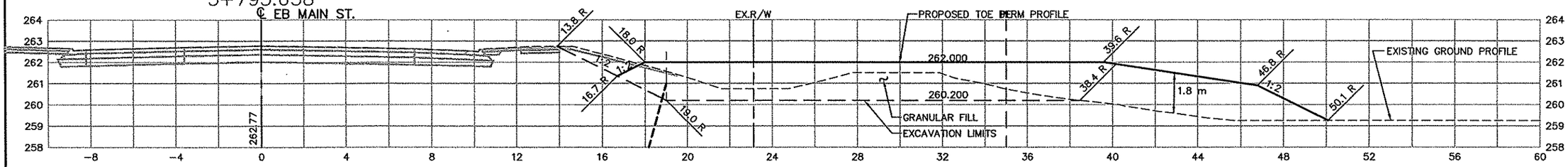
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 – 614 – 19
S.A.P.	02 – 618 – 24
S.P.	114 – 010 – 11
S.A.P.	114 – 020 – 19
S.A.P.	114 – 136 – 02
S.A.P.	114 – 127 – 02

SHEET NO. A5 / A17

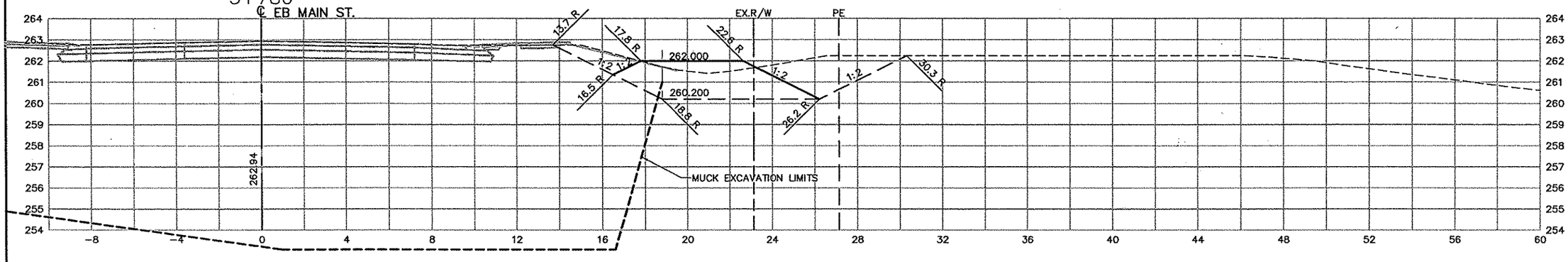
PLOT DATE: Aug 03, ..04 9:44am DISK FILE NAME: (15.06) R:\3388\33889028\3389E\Modreq71\...sht\restoration.DWG

TFAILXS1
\PBOX

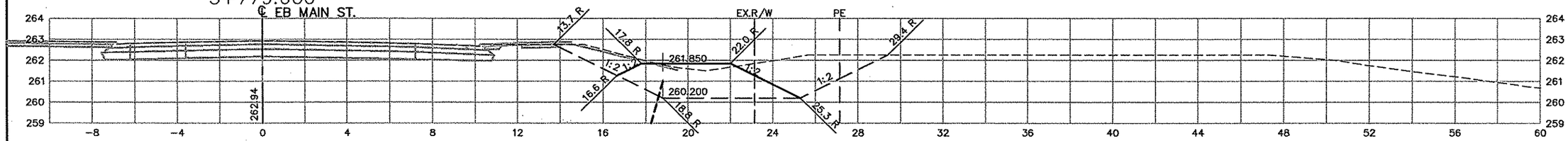
3+793.638
℄ EB MAIN ST.



3+780
℄ EB MAIN ST.

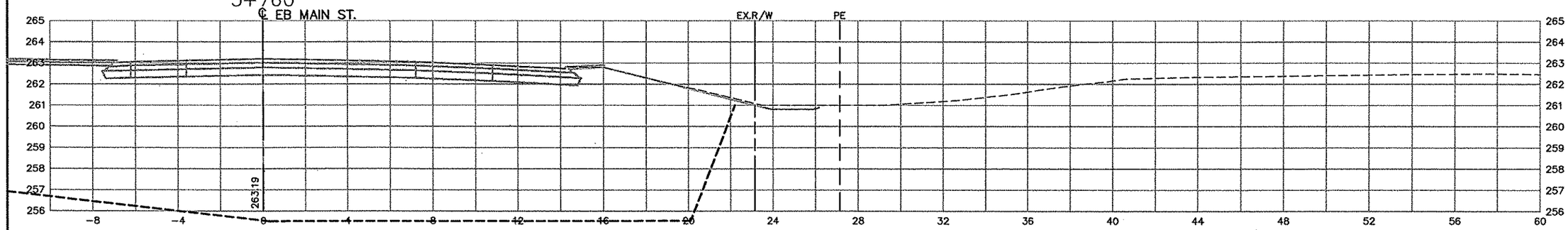


3+779.600
℄ EB MAIN ST.



EB STA. 3+777.300
BEGIN BERM, RT.

3+760
℄ EB MAIN ST.



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: PH1XS01
DATE: NOVEMBER 27, 2000

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
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Kevin P Kielb
DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 1 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+760.000 TO STATION 3+793.638

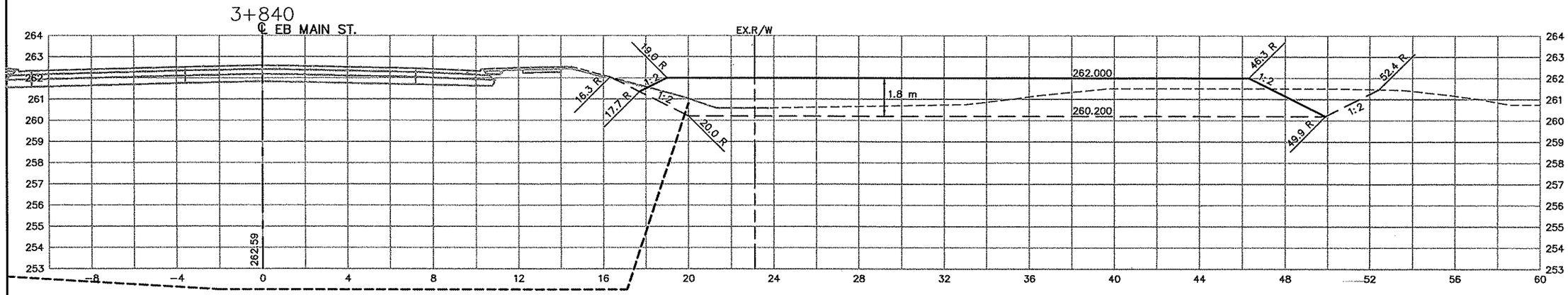
CITY PROJECT 98-20

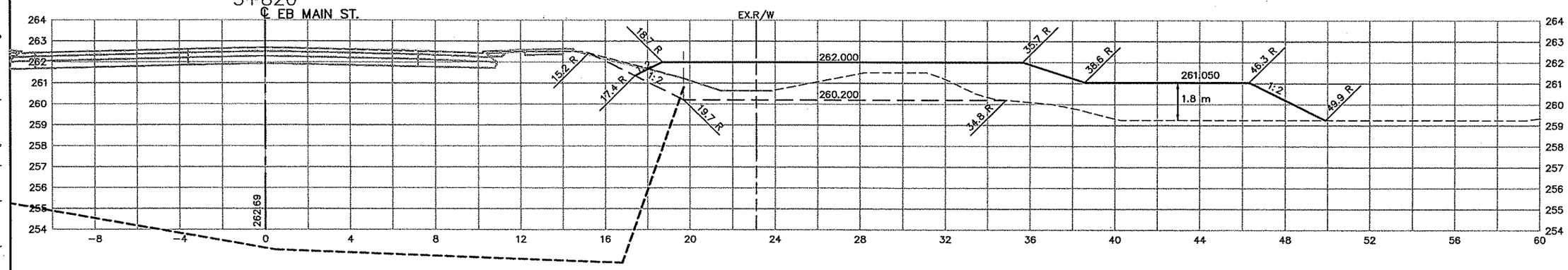
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

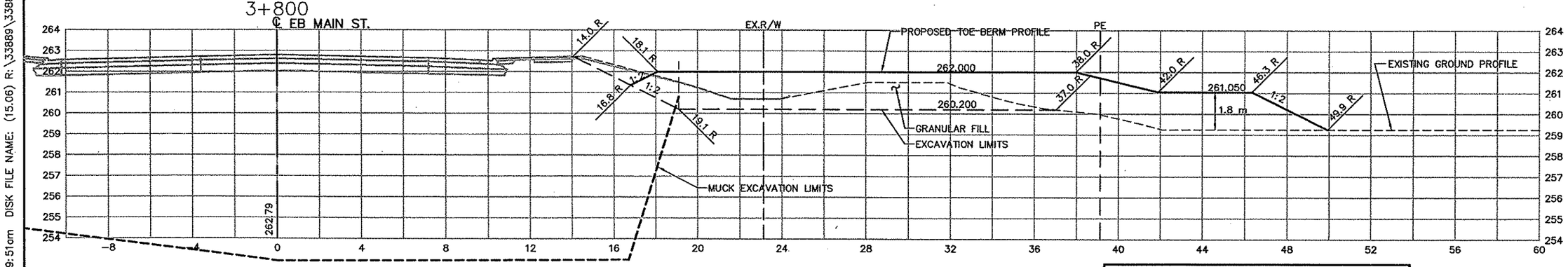
SHEET NO. A6 / A17

PLOT DATE: Aug 0_, _004 9:48am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71_--sht\PH1xs01.dwg

TFAILXSI
APBOX







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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: PH1XS02
DATE: NOVEMBER 27, 2000

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

DCM GROUP BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 1 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+800.000 TO STATION 3+840.000

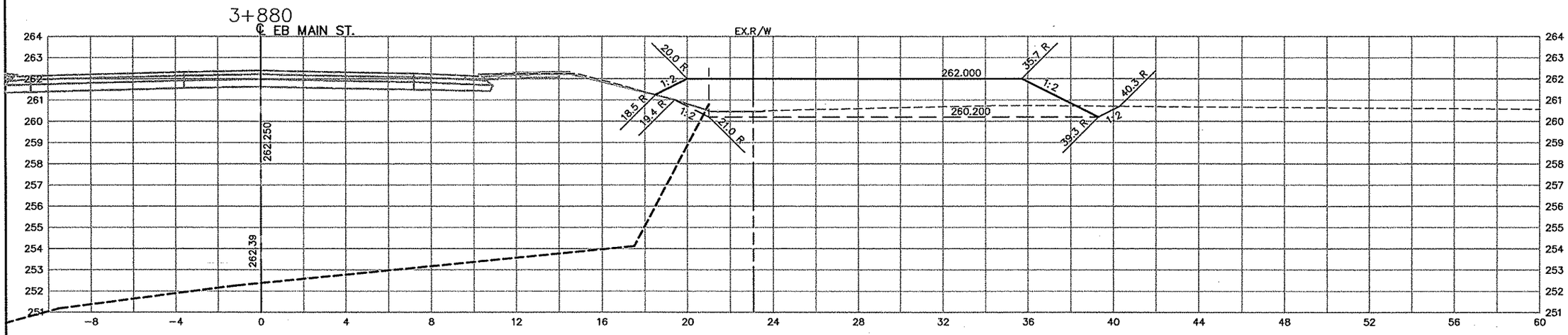
CITY PROJECT 98-20

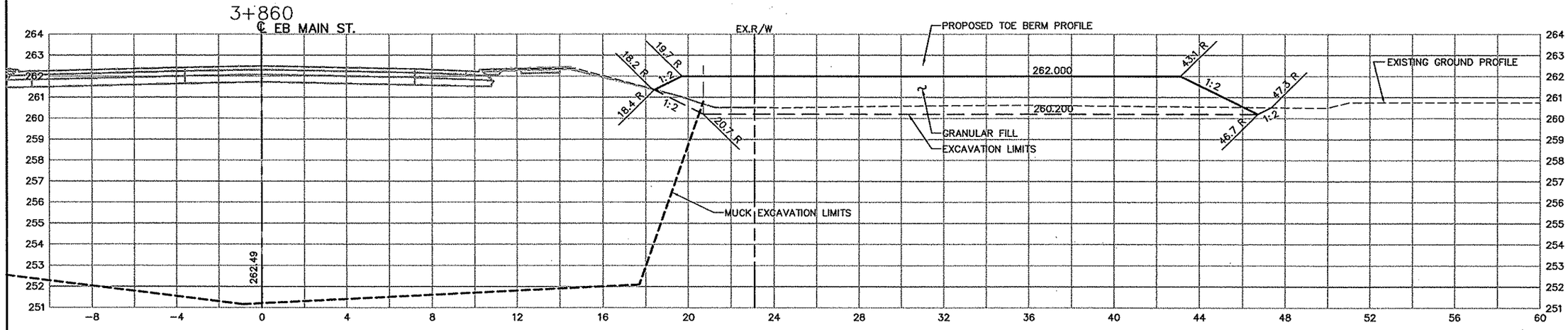
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

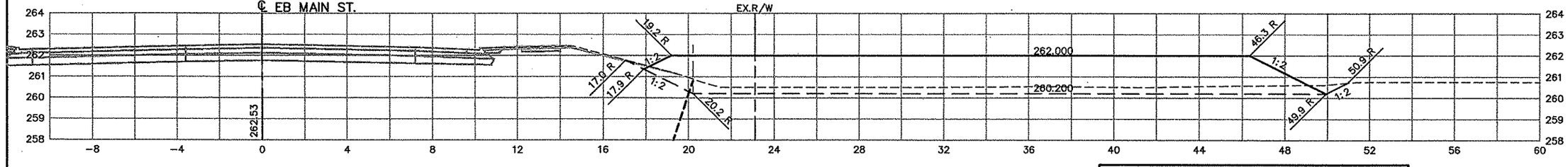
SHEET NO. A7 / A17

PLOT DATE: Aug 0... J04 9:51am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71 ...-sht\PH1xs02.dwg

VTFAILXS
APBOX







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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: PH1XS03
DATE: NOVEMBER 27, 2000

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DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

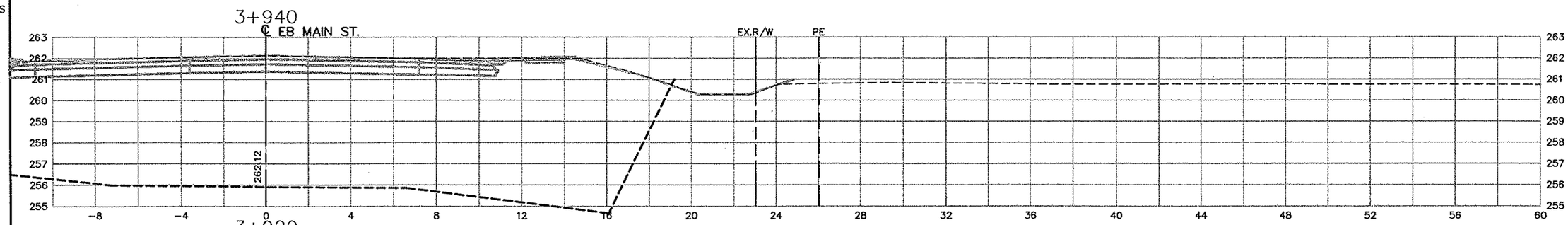
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/27/00 MINN. REG. NO. 23211

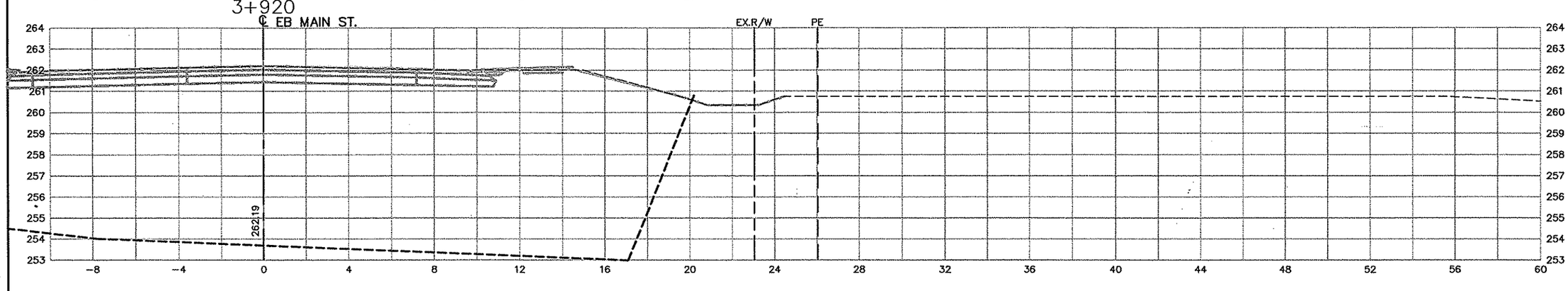
MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 1 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+851.629 TO STATION 3+880.000
CITY PROJECT 98-20

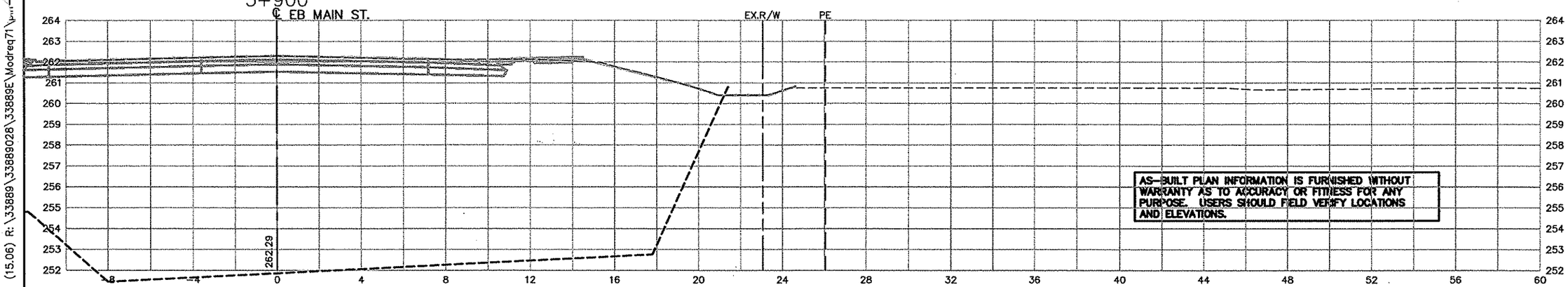
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. A8 / A17

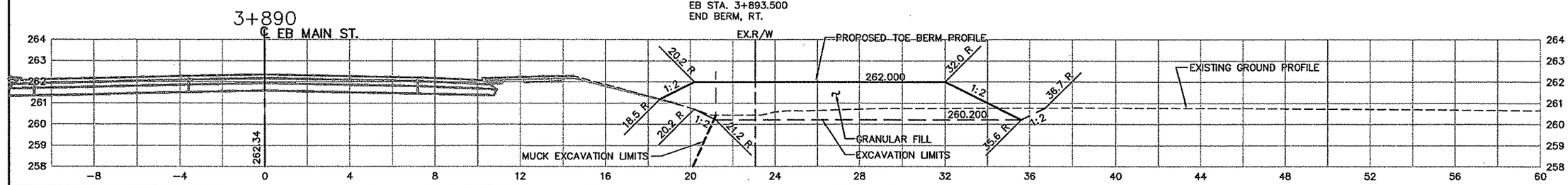
PLOT DATE: Aug 03, 2004 9:53am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\...-sht\PH1xs03.dwg







EB STA. 3+893.500
END BERM, RT.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: PH1XS04
DATE: NOVEMBER 27, 2000

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DCM GROUP BRW A DAMES & MOORE GROUP COMPANY
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700 THIRD STREET SOUTH
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(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/27/00 MINN. REG. NO. 23211

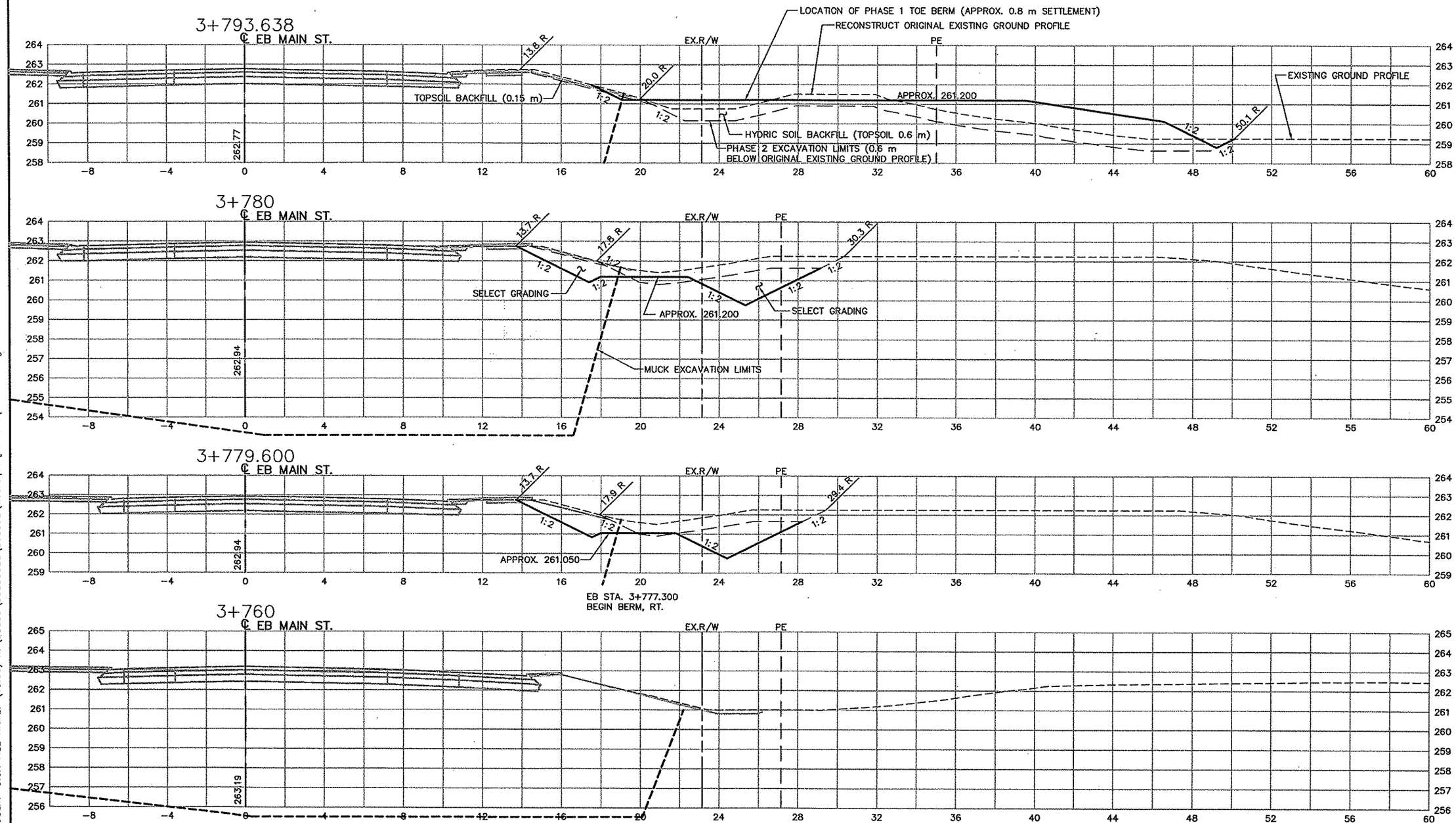
MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 1 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+890.000 TO STATION 3+940.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. A9 / A17

PLOT DATE: Aug 03, 2004 9:56am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\...=sht\PH1xs04.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	BJK	4/13/01	MOD. REQ. #71B: MODIFIED CROSS SECTIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: PH2XS01
DATE: NOVEMBER 27, 2000

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 2 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+760.000 TO STATION 3+793.638

CITY PROJECT 98-20

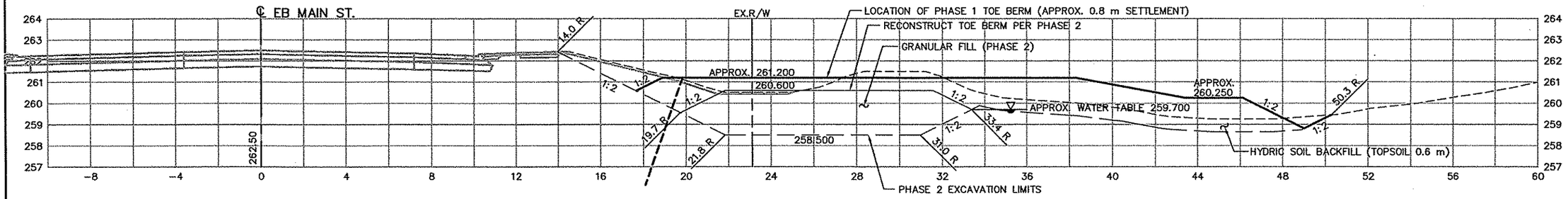
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. A10 / A17

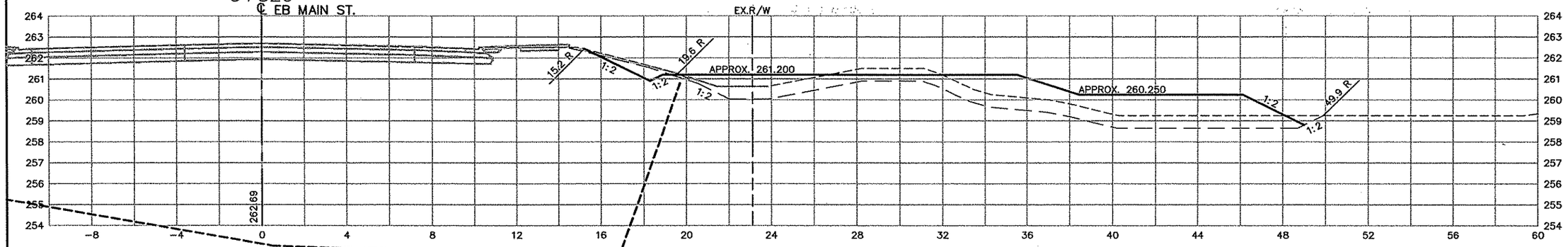
PLOT DATE: Aug 0_,_004 9:58am DISK FILE NAME: (15.06) R:\33889\33889028\33869E\Modreq71_____sht\PH2xs01.dwg

TFAILXS2
\PBOX

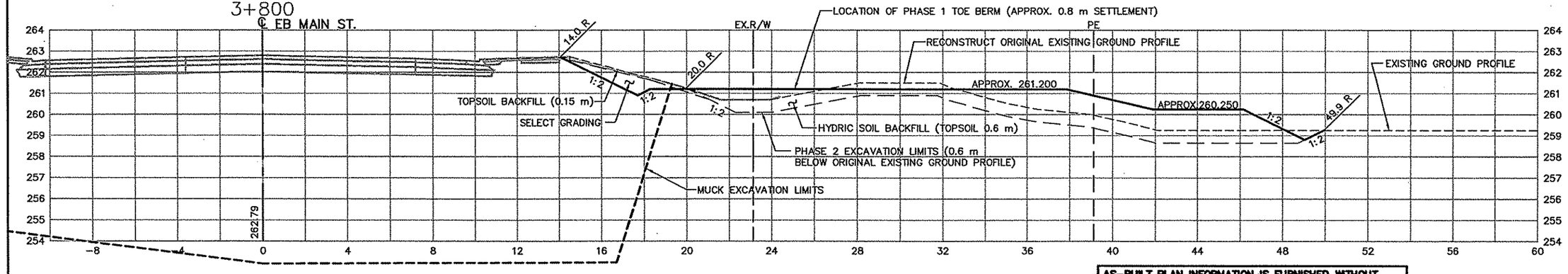
3+830



3+820



3+800



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	BJK	4/13/01	MOD. REQ. #71B: MODIFIED CROSS SECTIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: PH2XS02
DATE: NOVEMBER 27, 2000

minnesota metric
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DCM GROUP
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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

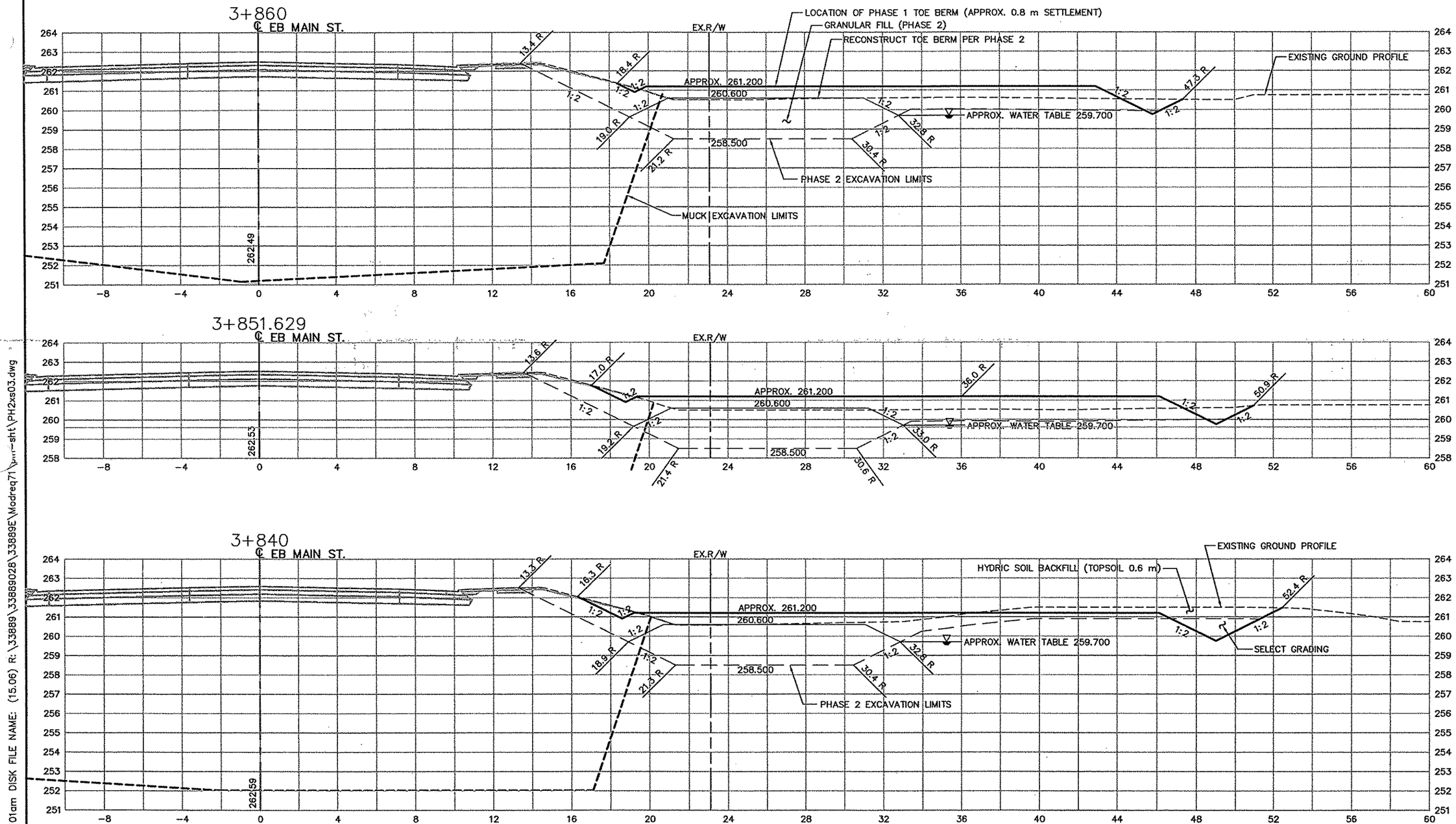
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Kevin P Bulb
DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 2 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+800.000 TO STATION 3+840.000
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. A11 / A17

PLOT DATE: Aug 0_,_004 9:59am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\...-sht\PH2xs02.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	BJK	4/13/01	MOD. REQ. #71B: MODIFIED CROSS SECTIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: PH2XS03
DATE: NOVEMBER 27, 2000

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700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P Kielb

DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 2 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+851.629 TO STATION 3+880.000

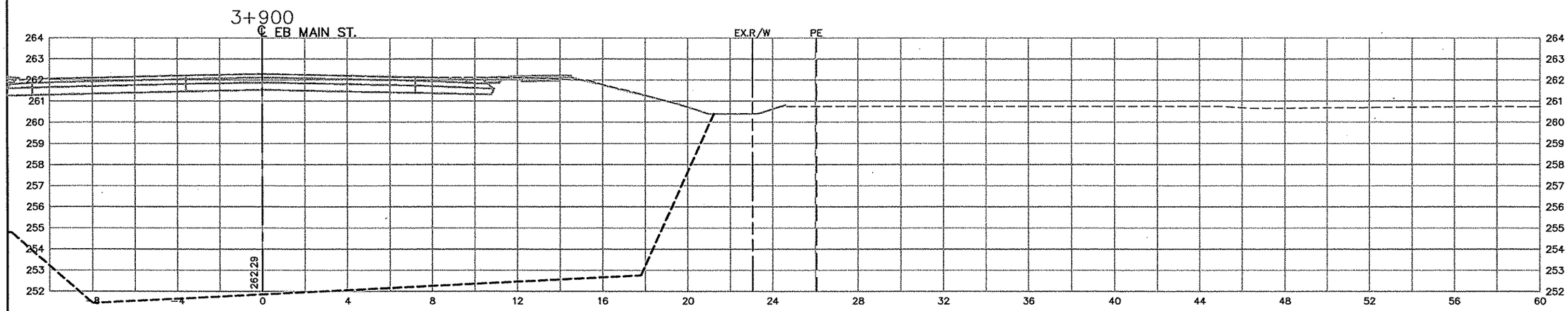
CITY PROJECT 98-20

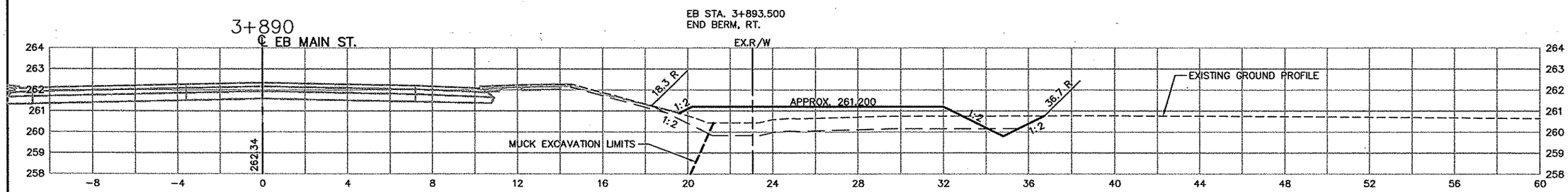
S.P. 0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

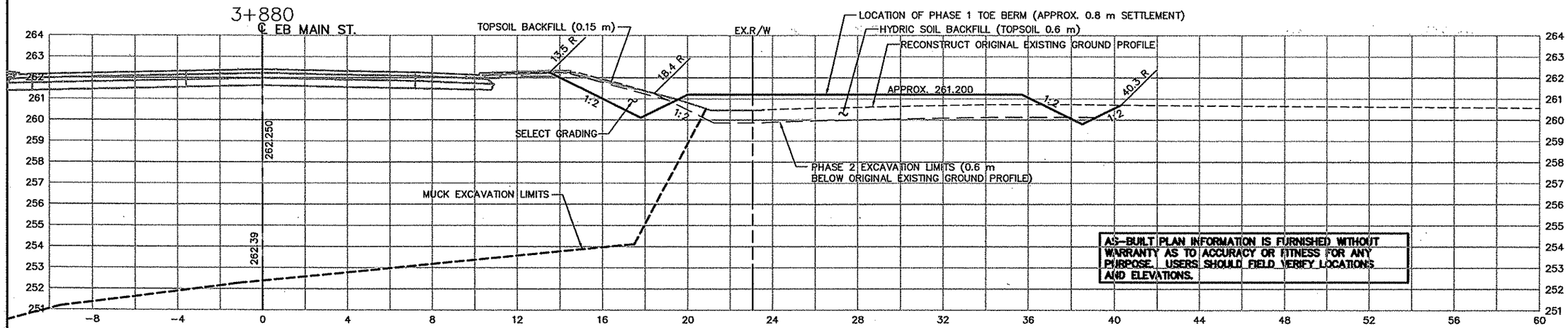
SHEET NO. A12 / A17

PLOT DATE: Aug 03, 2004 10:01am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\PH2xs03.dwg

TFA1LXS2
APBOX







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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	BJK	4/13/01	MOD. REQ. #71B: MODIFIED CROSS SECTIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: PH2XS04
DATE: NOVEMBER 27, 2000

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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(612)370-1378 (FAX)

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Kevin P Kielb
DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 2 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+890.000 TO STATION 3+940.000

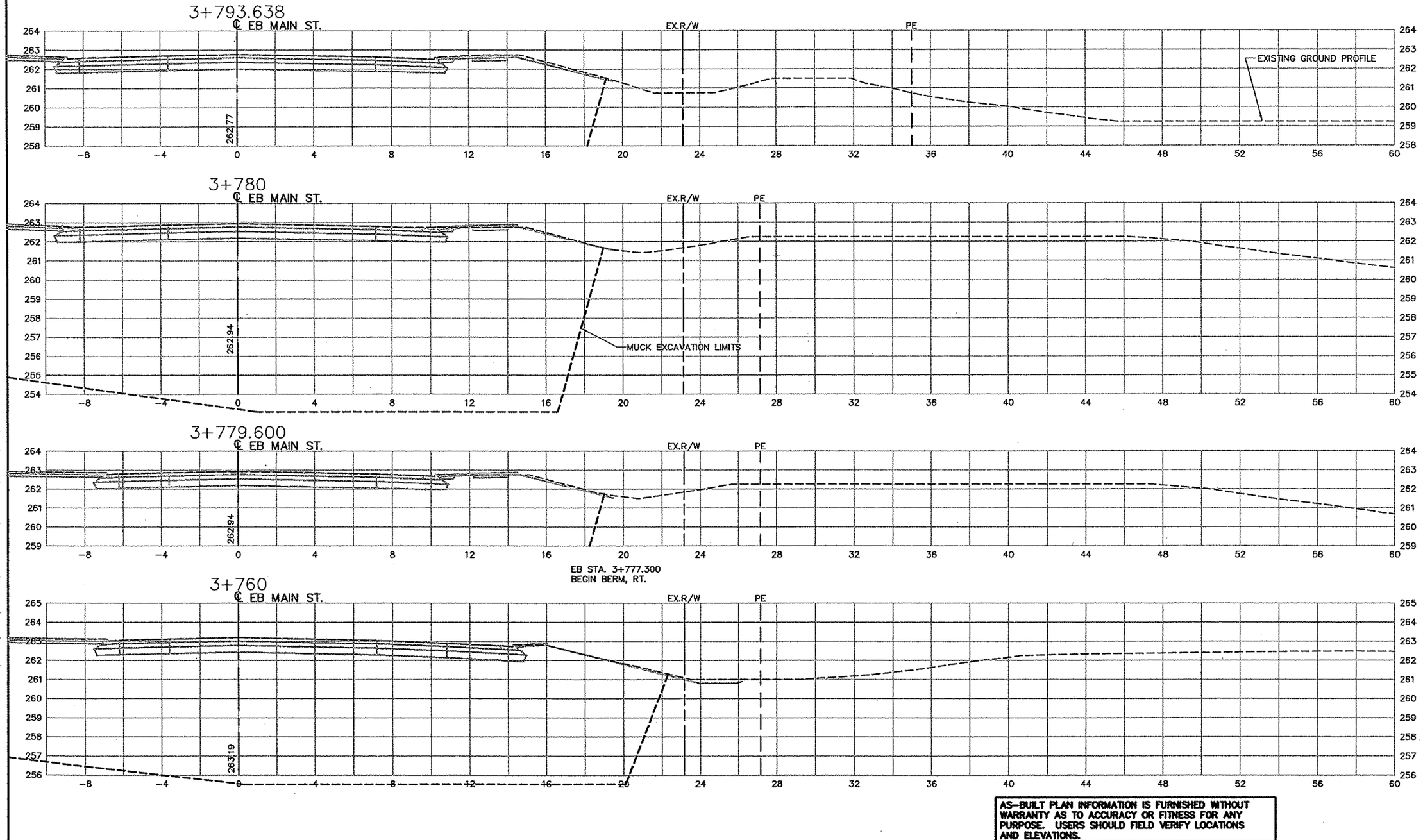
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. A13 / A17

PLOT DATE: Aug 0_, _004 10:03am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71 _..._-sht\PH2xs04.dwg

TFA ILXS3
SAPBOX



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	BJK	4/13/01	MOD. REQ. #71B: MODIFIED CROSS SECTIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: PH3XS01
DATE: NOVEMBER 27, 2000

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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(612)370-1378 (FAX)

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Kevin P Kielb

DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 3 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+760.000 TO STATION 3+793.638

CITY PROJECT 98-20

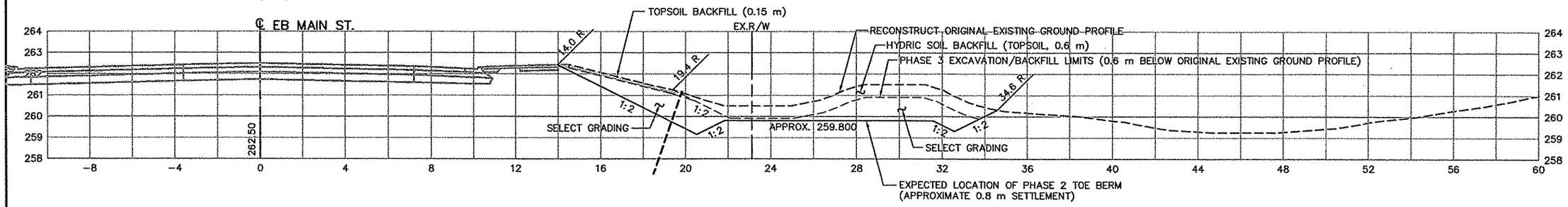
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. A14 / A17

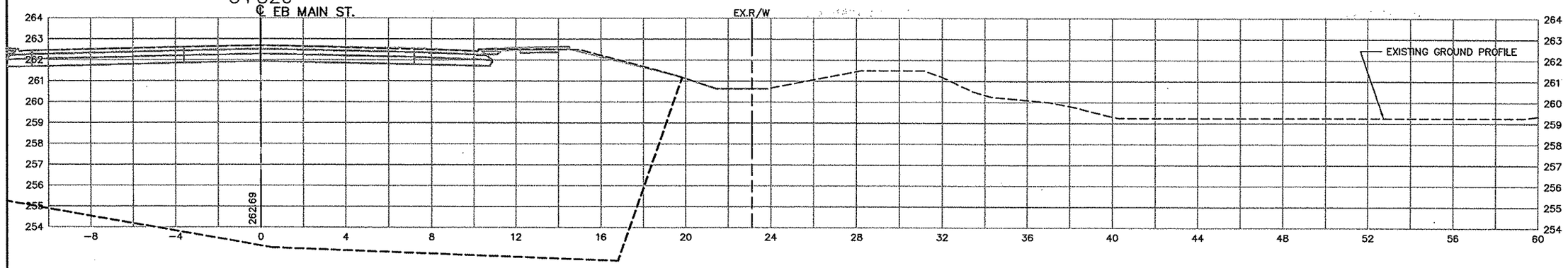
PLOT DATE: Aug 0_, 2004 10:08am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71_...-sht\PH3xs01.dwg

TFA ILXS3
SAPBOX

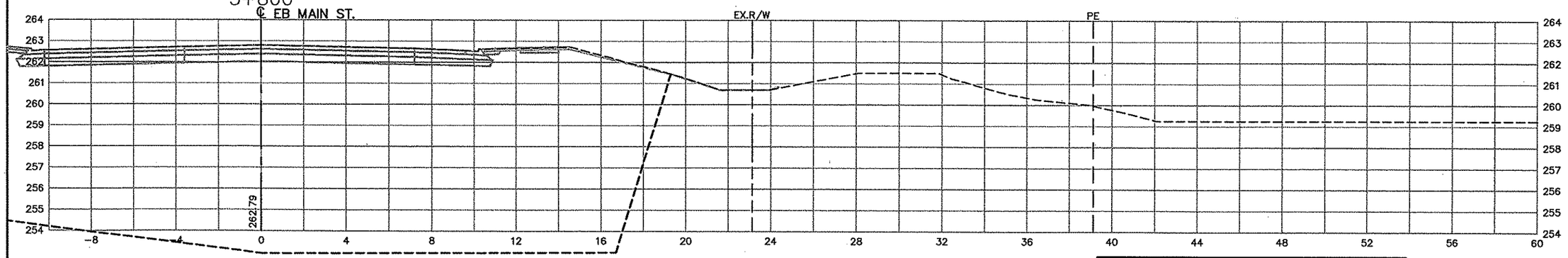
3+830



3+820



3+800



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	BJK	4/13/01	MOD. REQ. #71B: MODIFIED CROSS SECTIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: PH3XS02
DATE: NOVEMBER 27, 2000

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 3 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+800.000 TO STATION 3+840.000

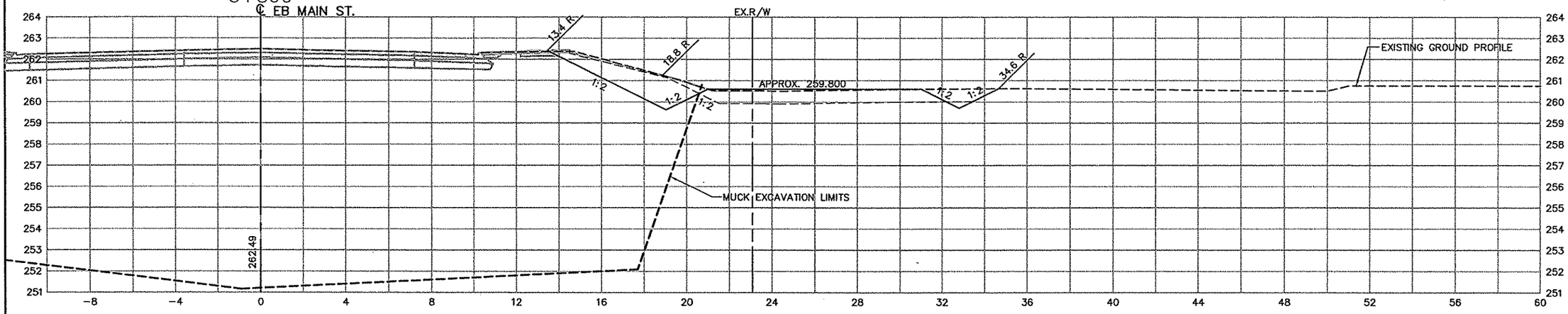
CITY PROJECT 98-20

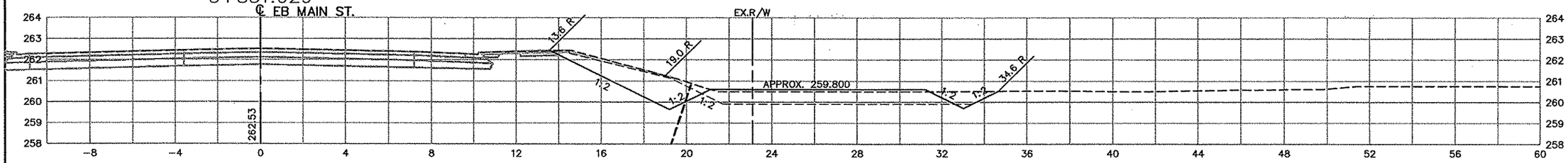
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

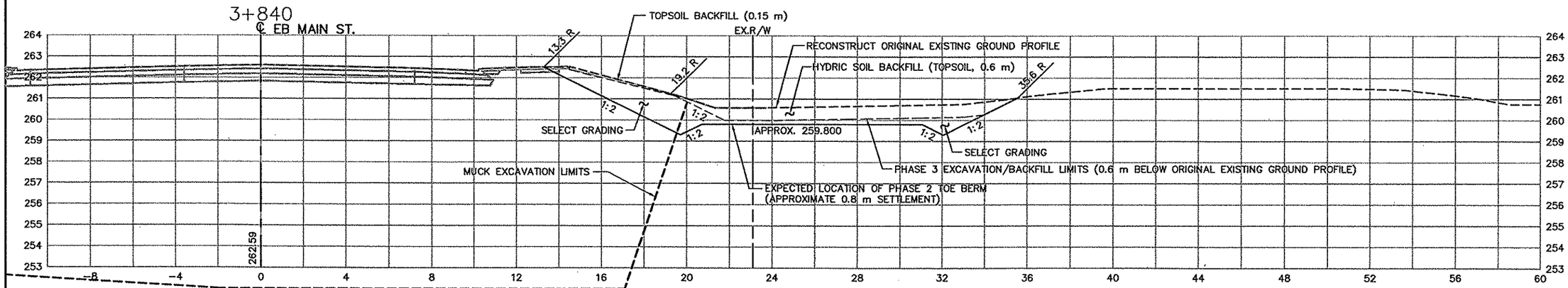
SHEET NO. A15 / A17

PLOT DATE: Aug 02, 2004 10:1am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\PH3xs02.dwg

EB STA. 3+860.000
END BERM, RT.







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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	BJK	4/13/01	MOD. REQ. #71B: MODIFIED CROSS SECTIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR. | DESIGN BY: KPK
CHKED. BY: KPK/PBD | DWG. NAME: PH3XS03
DATE: NOVEMBER 27, 2000

minnesota metric
ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.

BRW
A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P Kielb
DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 3 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+851.629 TO STATION 3+880.000

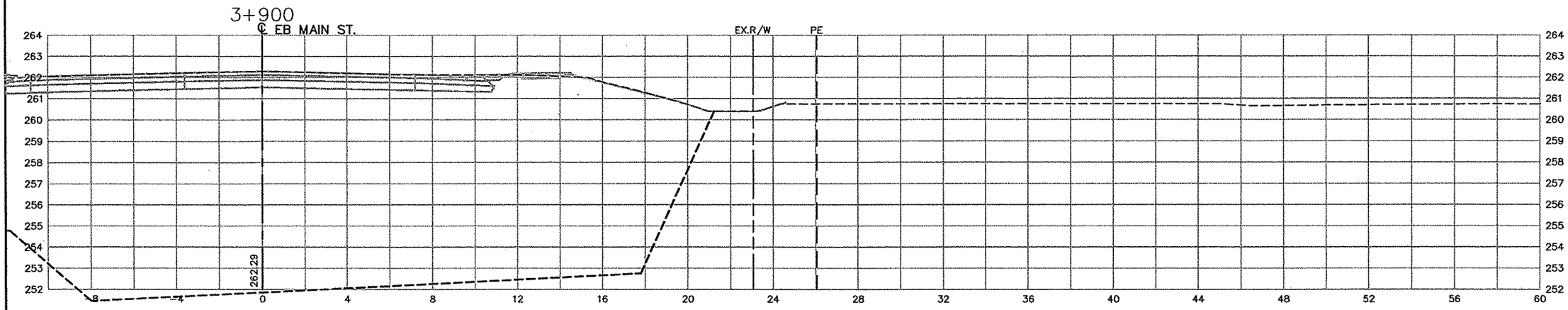
CITY PROJECT 98-20

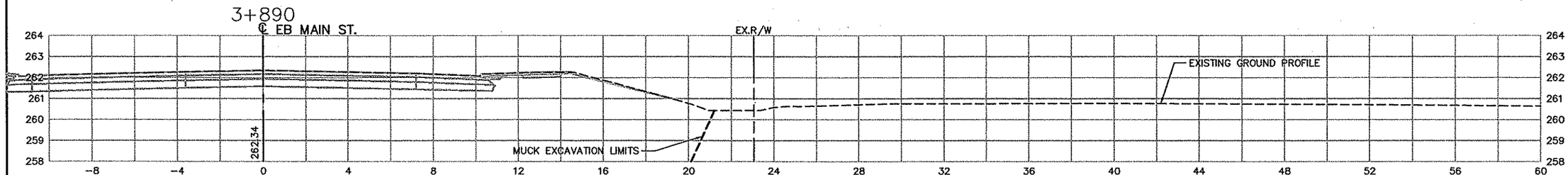
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

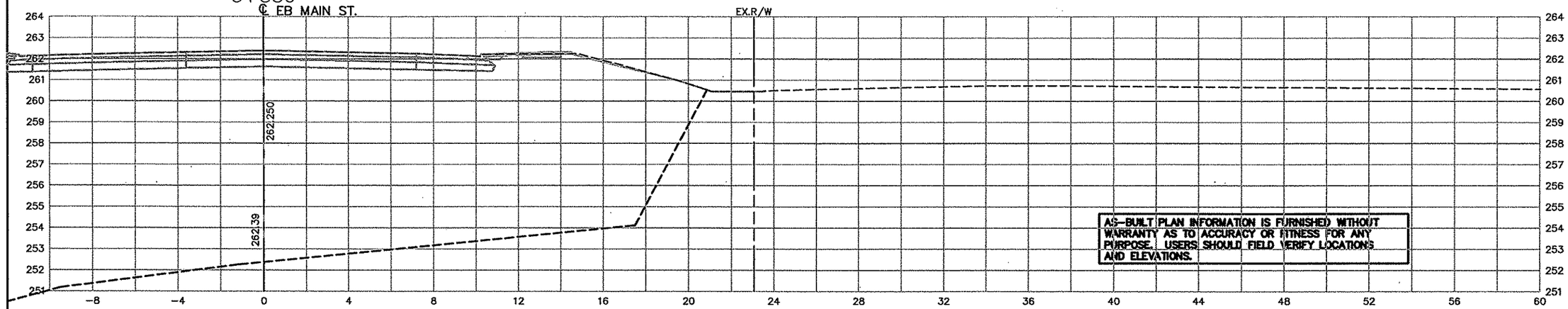
SHEET NO. A16 / A17

PLOT DATE: Aug 03, 2004 10:12am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\pln-sht\PH3xs03.dwg

TFA1LXS3
SAPBOX







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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	11/27/00	MOD.REQ.#71: ADD NEW PLAN SHEET
2	JJL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	BJK	4/13/01	MOD. REQ. #71B: MODIFIED CROSS SECTIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: KPK
CHKED. BY: KPK/PBD
DWG. NAME: PH3XS04
DATE: NOVEMBER 27, 2000

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A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P Kielb

DATE: 11/27/00 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 3 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+890.000 TO STATION 3+940.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO. A17 / A17

PLOT DATE: Aug 0[illegible]004 10:13am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\...-sht\PH3xs04.dwg