

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

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: NORTHDALÉ BOULEVARD BETWEEN 124TH AVE. NW AND 288 m NORTH OF MAIN ST. (CSAH 14) (Geographic Description)

LOCATED ON: 124th AVE. NW BETWEEN NORTHDALÉ 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)

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 MUTCD, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS DATED JANUARY 1998.

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THIS PLAN SET CONTAINS 659 SHEETS

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

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

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

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

BEGIN S.A.P. No. 114-127-02
NORTHDALÉ 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

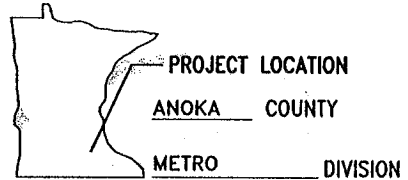
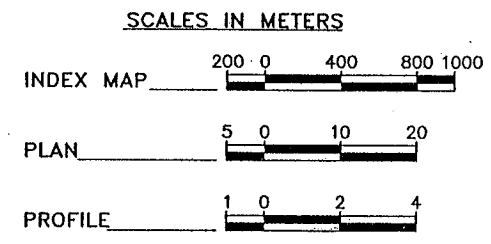
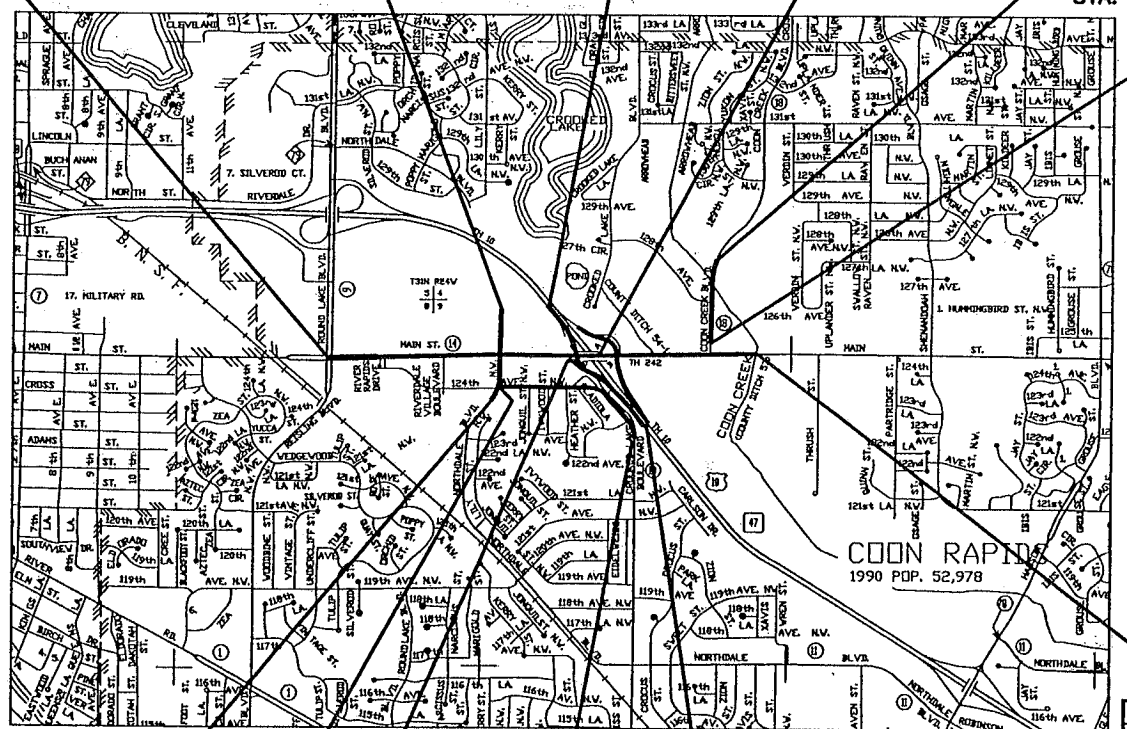
END S.A.P. No. 114-136-02
CROOKED LAKE BLVD. STA. 1+890.110

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

- LEGEND**
- GV EXISTING GATE VALVE
 - HYD. EXISTING HYDRANT
 - CS EXISTING CURB BOX
 - MANHOLE EXISTING MANHOLE FOR STORM AND SANITARY SEWER
 - CB EXISTING CATCH BASIN
 - PP EXISTING POWER POLE
 - SS EXISTING SANITARY SEWER
 - SS EXISTING STORM SEWER
 - WM EXISTING WATERMAIN
 - CG EXISTING CURB AND GUTTER
 - GAS EXISTING UNDERGROUND GAS MAIN
 - TEL EXISTING UNDERGROUND TELEPHONE LINE
 - UGP EXISTING UNDERGROUND POWER
 - OHP EXISTING OVERHEAD POWER
 - FENCE EXISTING FENCE
 - TREE EXISTING TREE
 - TREE LINE EXISTING TREE LINE
 - ST SIGN EXISTING STREET SIGN
 - CONTOUR EXISTING CONTOUR
 - CONTOUR PROPOSED CONTOUR
 - PIN PIN NUMBER
 - REDUCER PROPOSED REDUCER
 - TEE PROPOSED TEE
 - GATE VALVE PROPOSED GATE VALVE
 - HYDRANT PROPOSED HYDRANT
 - MANHOLE PROPOSED MANHOLE FOR STORM AND SANITARY SEWER
 - CB PROPOSED CATCH BASIN
 - WATERMAIN PROPOSED WATERMAIN
 - SANITARY SEWER PROPOSED SANITARY SEWER
 - STORM SEWER PROPOSED STORM SEWER
 - CURB AND GUTTER PROPOSED CURB AND GUTTER



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	SHEET NO.	APPROVED BY
2/11/00	REVISED: 1,5,6,7,8,22,28,51,53,55,57,62,129,153,172A	KPK
2/11/00	ADDED: 52B,52C,68A,69A,74A,108A-D	KPK
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.

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. No. S.P. 114-010-11, S.A.P. 114-020-19, S.A.P. 114-136-02

BRW GROUP
A DAMES & MOORE GROUP COMPANY

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 Benjamin P. Kith

Approved: Steve O. Martin 1/6/00
CITY OF COON RAPIDS ENGINEER

Approved: Paul S. O'Neil 1/6/00
ANOKA COUNTY ENGINEER

Recommended for Approval: Michael J. Hays 1/25/00
FOR METRO DIVISION

Recommended for Approval: Michael J. Hays 1/25/00
STATE TRAFFIC ENGINEER

Recommended for Approval: John R. Krasner 1/26/00
FOR STATE FIRE-LETTING ENGINEER

Office of Land Management Approval: Michael J. Hays 1-26-00
DIRECTOR, LAND MANAGEMENT

Approved: Robert W. Feider 1-27-00
SENIOR DESIGN ENGINEER

Approved: Kevin R. Krasner 1/25/00
METRO-ASSISTANT DIVISION ENGINEER-STATE AID: REVIEWED FOR COMPLIANCE WITH STATE AID POLICY

Approved: Michael J. Hays 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.

DATE: 2/27/04 REG. NO. 40545
Steve W. Wain

PLOT DATE: Aug 24, 2004 1:17pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\2421101.c

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

PLOT DATE: Jun 15, 5:37pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\RING\242tt02.dwg

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
CHKD. BY: PBD	DWG. NAME: 242TTL02	
DATE: NOVEMBER 5, 1999		



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



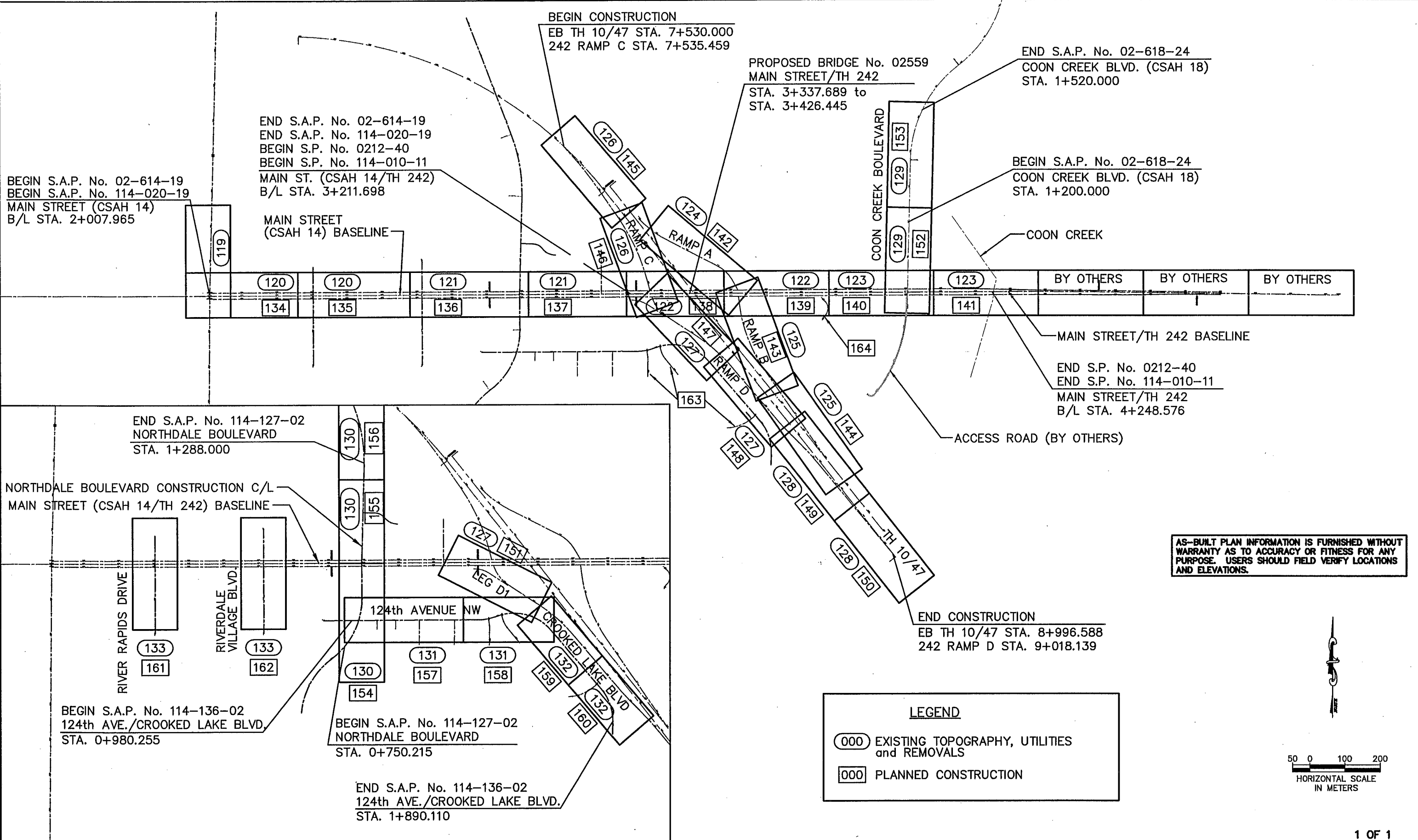
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P. Kiehl
 DATE: 11/5/99 MINN. REG. NO. 23211

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

42-GL
42-ALI
42E-ALI

PLOT DATE: Dec 28, 1999 11:31am DISK FILE NAME: (14-01) R:\33889\33889028\33889E\PLAN-SHT\33889028.dwg

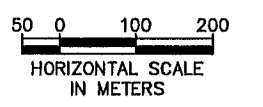


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LEGEND

000 EXISTING TOPOGRAPHY, UTILITIES and REMOVALS

000 PLANNED CONSTRUCTION



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
CHKD. 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 328.02 TO 328.16

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)

GENERAL LAYOUT

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02-614-19	3
S.A.P. 02-618-24	
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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STATEMENT OF ESTIMATED QUANTITIES

TAB	NOTE	ITEM NO.	ITEM	UNITS	TOTAL QUANTITIES	MAIN STREET (C.S.A.H. 14)		STORM SEWER	LAND-SCAPING	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE)		COON CREEK BOULEVARD (CSAH 18)		NORTHDALE BOULEVARD		CROOKED LAKE BLVD AND 124TH AVENUE	
						(S.A.P. 02-614-19) (S.A.P. 114-020-19)				(S.P. 0212-40) (S.P. 114-010-11)		(S.A.P. 02-618-24)		(S.A.P. 114-127-02)		(S.A.P. 114-136-02)	
						ESTIMATED QUANTITIES	NON-PARTICIPATING			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	41	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	2080				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				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											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											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						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 ²	27							223		290			191
H		2104.503	REMOVE CONCRETE WALK	m ²	726												
H		2104.503	REMOVE CONCRETE SLOPE PAVING	m ²	426					426							
J		2104.509	REMOVE CATCH BASIN	EACH	17	5				5				1			3
G	21	2104.509	REMOVE TWISTED END TREATMENT	EACH													
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				2			21
B		2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	m	1858	312				1265							91
D		2104.521	SALVAGE CHAIN LINK FENCE	m	180												
G		2104.521	SALVAGE GUARD RAIL -PLATE BEAM	m	212												
		2104.523	SALVAGE DELINEATOR	EACH	45					36							4
E		2104.523	SALVAGE HUB 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				14			18
		2104.523	SALVAGE SIGN TYPE D	EACH	20	5				13							1
G	21	2104.523	SALVAGE TWISTED END TREATMENT	EACH	2												
		2104.601	ASBESTOS EVALUATION	LS	1												1
		2104.601	REMOVE COOLING SYSTEM	LS	1									0.08			
J	17	2104.601	HAUL SALVAGED MATERIAL	LS	1	0.42				0.50							
		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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PLOT DATE: Aug 2 04 4:46pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\tabs\sec.dwg

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

DESIGN FILE: 33889028	DRAWN BY: JUL	DESIGN BY: JUL
CHKD. BY: KPK	DWG. NAME: SEQTAB1	
DATE: NOVEMBER 5, 1999		



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. Xie
 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

STATEMENT OF ESTIMATED QUANTITIES

TAB	NOTE	ITEM NO.	ITEM	UNITS	TOTAL QUANTITIES	MAIN STREET (C.S.A.H. 14)		STORM SEWER	LAND-SCAPING	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE)		COON CREEK BOULEVARD (CSAH 18)		NORTHDALE BOULEVARD		CROOKED LAKE BLVD AND 124TH AVENUE	
						ESTIMATED QUANTITIES	NON-PARTICIPATING			ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	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	m ²	5215	2869.0				2346							
N. O		2211.503	AGGREGATE BASE (CV) CLASS 5 (P)	m ²	32334	12279				14277		1567		2697		1517	
B		2232.501	MILL BITUMINOUS SURFACE (25 mm)	m ²	2865					2865							
B		2232.501	MILL BITUMINOUS SURFACE (50 mm)	m ²	1990	187				747		918		83		55	
		2301.553	BRIDGE APPROACH PANELS A (P)	m ²	1380					1380							
		2301.553	BRIDGE APPROACH PANELS B (P)	m ²	535							535					
19		2350.604	TYPE LV 3 NON-WEAR COURSE MIX 50 mm THICK	m ²	8220					3673							
19		2350.604	TYPE LV 3 NON-WEAR COURSE MIX 100 mm THICK	m ²	8220	4547				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	2877					943		615		1319			
O		2350.609	TYPE LV 3 WEARING COURSE MIXTURE	T	2097					644		124					
O		2350.609	TYPE LV 3 NON-WEARING COURSE MIXTURE	T	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	T	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	m ²	559					127							
		2433.604	SEAL OVERLAY CRACKS	m2	878							878					
		2451.607	TRENCH STABILIZATION MATERIAL (CV)	m3	700	500						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					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					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					4							
Z		2501.567	560 mm SPAN RC SAFETY APR & GR DES 312	EACH	1					1							
Z	18	2501.569	600 mm RC SAFETY APRON	EACH	4					4							
Z		2501.602	TRASH GUARD FOR 375 mm APRON	EACH	7					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					4							
		2502.541	100 mm PE 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	m	157.2					157.2							
Z	1	2503.541	375 mm RC PIPE SEWER DES 3006 CL III	m	2169.4				2100.6			68.8					
Z	1	2503.541	375 mm RC PIPE SEWER DES 3006 CL IV	m	44.2												
Z		2503.541	375 mm RC PIPE SEWER DES 3006 CL V	m	60.0					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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PLOT DATE: Aug 25 4 4:48pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SEQ.dwg

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

DESIGN FILE: 33889028	
DRAWN BY: JL	DESIGN BY: JL
CHKD. BY: KPK	DWG. NAME: SEQTAB2
DATE: NOVEMBER 5, 1999	

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

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Kevin P. Kielbaso

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

STATEMENT OF ESTIMATED QUANTITIES

TAB	NOTE	ITEM NO.	ITEM	UNITS	TOTAL QUANTITIES	MAIN STREET (C.S.A.H. 14)		STORM SEWER	LAND-SCAPING	MAIN STREET (T.H. 242) CSAH 14 TO COON CREEK (INCLUDES INTERCHANGE)		COON CREEK BOULEVARD (CSAH 18)		NORTHDALE BOULEVARD		CROOKED LAKE BLVD AND 124TH AVENUE	
						(S.A.P. 02-614-19) (S.A.P. 114-020-19)				(S.P. 0212-40) (S.P. 114-010-11)		(S.A.P. 02-618-24)		(S.A.P. 114-127-02)		(S.A.P. 114-136-02)	
						ESTIMATED QUANTITIES	NON-PARTICIPATING			ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	NON-PARTICIPATING	ESTIMATED QUANTITIES	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 III	m	42.2			42.2									
Z		2503.541	525 mm RC PIPE SEWER DES 3006	m	201.3			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	89.5			89.5									
Z		2503.541	750 mm RC PIPE SEWER DES 3006	m	84.3			84.3									
Z		2503.541	750 mm RC PIPE SEWER DES 3006 CL IV	m	128.1			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			7									
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									
O		2504.601	IRRIGATION SYSTEM	LS	1			1									
O		2504.602	CONNECT TO EXISTING WATER MAIN	EACH	16	3	4					1	1			7	
O		2504.602	INSTALL HYDRANT AND VALVE	EACH	7	3							1			2	
O		2504.602	HYDRANT	EACH	1							1					
O		2504.602	150 mm PIPE PLUG	EACH	2	2											
O		2504.602	200 mm PIPE PLUG	EACH	2		1					1					
O		2504.602	400 mm PIPE PLUG	EACH	2		2										
O		2504.602	150 mm GATE VALVE AND BOX	EACH	2		1					1					
O		2504.602	200 mm GATE VALVE AND BOX	EACH	1		1										
O		2504.602	400 mm BUTTERFLY VALVE	EACH	1		1										
O		2504.602	450 mm BUTTERFLY VALVE	EACH	1											1	
O		2504.602	200 mm x 150 mm REDUCER	EACH	1							1					
O		2504.602	300 mm x 200 mm REDUCER	EACH	1							1					
O		2504.602	200 mm x 200 mm TEE FITTING	EACH	1							1					
O		2504.602	400 mm x 150 mm TEE FITTING	EACH	1		1										
O		2504.602	400 mm x 400 mm TEE FITTING	EACH	1		1										
O		2504.602	450 mm x 150 mm TEE FITTING	EACH	1											1	
O		2504.602	150 mm DIP BEND - 45	EACH	1											1	
O		2504.602	150 mm DIP BEND - 90	EACH	1												
O		2504.602	300 mm DIP BEND - 45	EACH	2							2					
O		2504.602	400 mm DIP BEND - 45	EACH	2		2										
O		2504.602	450 mm DIP BEND - 11 1/4	EACH	4											4	
O		2504.602	450 mm DIP BEND - 22 1/2	EACH	1											1	
O		2504.602	450 mm DIP BEND - 45	EACH	2											2	
O		2504.603	150 mm WATERMAIN DUCTILE IRON CL 52	m	74.5	37.9	8.0					2.0	4.0			22.6	
O		2504.603	200 mm WATERMAIN DUCTILE IRON CL 52	m	97.0		10.0										
O		2504.603	300 mm WATERMAIN DUCTILE IRON CL 52	m	88.0												
O		2504.603	400 mm WATERMAIN DUCTILE IRON CL 52	m	108.2		108.2										
O		2504.603	450 mm WATERMAIN DUCTILE IRON CL 52	m	224.7											224.7	
O, T		2504.603	400 mm STEEL CASING PIPE	m	70.0							10.0		60.0			
O		2504.603	750 mm STEEL CASING PIPE	m	67.3							67.3					
O		2504.604	75 mm POLYETHYLENE INSULATION	m ²	111		12					63				36	
Z		2506.501	CONST. DRAINAGE STRUCTURE DES 1200mm 4020	m	278.1			267.0				11.1					
Z		2506.501	CONST. DRAINAGE STRUCTURE DES 1350mm 4020	m	42.4			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				6					
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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PLOT DATE: Aug 25, 1999 4:57pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SEC\dwg

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

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



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. Kiehl
 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

STATEMENT OF ESTIMATED QUANTITIES

Table with columns: TAB, NOTE, ITEM NO., ITEM, UNITS, TOTAL QUANTITIES, MAIN STREET (C.S.A.H. 14), STORM SEWER, LAND-SCAPING, MAIN STREET (T.H. 242), COON CREEK BOULEVARD (CSAH 18), NORTHDALE BOULEVARD, CROOKED LAKE BLVD AND 124TH AVENUE. Includes a large diagonal 'X' across the table.

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PLOT DATE: Aug 25 4:49pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\tabs\seq.dwg

Table with columns: REV. NO., BY, DATE, REVISIONS DESCRIPTION. Includes revision history for the drawing.

DESIGN FILE: 33889028. Includes fields for DRAWN BY, DESIGN BY, CHECKED BY, and DATE (NOVEMBER 5, 1999).



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. Signature: Kevin P. Kiehl. 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

STATEMENT OF ESTIMATED QUANTITIES

Table with columns: TAB, NOTE, ITEM NO., ITEM, UNITS, TOTAL QUANTITIES, MAIN STREET (C.S.A.H. 14), STORM SEWER, LAND-SCAPING, MAIN STREET (T.H. 242), COON CREEK BOULEVARD (CSAH 18), NORTHDALE BOULEVARD, CROOKED LAKE BLVD AND 124TH AVENUE. Includes a large diagonal 'X' across the table.

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PLOT DATE: Aug 21 4 8:47am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SEC_jwg

Table with columns: REV. NO., BY, DATE, REVISIONS DESCRIPTION. Includes revision history for quantities and drawing status.

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



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. Kiel
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

STATEMENT OF ESTIMATED QUANTITIES

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	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 SOA	kg	399.5					324.0				9.0			53.0	
W		2575.505	SODDING TYPE SALT RESISTANT	m2	3150	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	L	77.4	1.6				68.4				1.1			6.3	
	24	2581.501	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:
- PIPE CLASS SHOWN IS MINIMUM ALLOWABLE. HIGHER CLASS OF PIPE MAY BE SUBSTITUTED FOR CLASS SHOWN.
 - 10 STRUCTURES
 - 1 STRUCTURE
 - 4 STRUCTURES
 - DESIGN 3110 G
 - DESIGN 3100 G
 - SURMOUNTABLE
 - QUANTITY ESTIMATED. TO BE PLACED AS DIRECTED IN THE FIELD BY ENGINEER.
 - INCLUDES MAINTENANCE, UPKEEP, AND REMOVAL OF SILT FENCE
 - SLOW RELEASE TYPE
 - FEATURE WALL
 - STEEL EDGER
 - QUADGUARD SYSTEM OR EQUAL
 - BRAKE MASTER SYSTEM OR EQUAL
 - FOR ALL BITUMINOUS PAVEMENT REGARDLESS OF DEPTH
 - INCLUDES BASE
 - INCLUDES HAULING OF SIGNAL SYSTEMS
 - DESIGN M3128F
 - FOR TEMPORARY CONSTRUCTION ONLY
 - VARIES FROM 50 mm TO 250 mm
 - INCLUDES REMOVING CONCRETE BLOCK
 - REINFORCED
 - CONTRACTOR OWNED
 - 9 m GAP, 1 m STRIPE

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PLOT DATE: Aug 2 14 8:48am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SEC.dwg

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

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



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
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S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO.
9
539

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.

PLOT DATE: Jan 04, 2000 11:30am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT\RING\soilnote.dwg

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 16 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: JLJ/BDB
CHKD. BY: PBD/KPK	DWG. NAME: SOILNOTE
DATE: NOVEMBER 5, 1999	



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



A DAMES & MOORE GROUP COMPANY

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55416
(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. Kiehl

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: Aug 25, 1999 4:50pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242.dwg

EARTHWORK TABULATION									
STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)				TOTAL FILL
	COMMON	SUBGRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR		
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	0.0
2+024.727 S	0.0	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	20.0	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	4.0	0.0	0.0	4.0	
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									
STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)				TOTAL FILL
	COMMON	SUBGRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR		
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	18.0	0.0	42.0	
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									
STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)				TOTAL FILL
	COMMON	SUBGRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR		
SAP 02-614-19, SAP 114-020-19 MAIN STREET (CSAH 14) CONTINUED									
3+100 N	41.0	0.0	0.0						

EARTHWORK TABULATION

Table with columns: STATION TO STATION, EXCAVATION m3 (CV) COMMON, SUBRADE, MUCK, TOTAL CUT, EMBANKMENT m3 (CV) TOPSOIL, SELECTED GRADING, SELECT GRANULAR, TOTAL FILL. Includes project details: SP 0212-40, SP 114-010-11 (INTERCHANGE) TH 242 INTERCHANGE.

EARTHWORK TABULATION

Table with columns: STATION TO STATION, EXCAVATION m3 (CV) COMMON, SUBRADE, MUCK, TOTAL CUT, EMBANKMENT m3 (CV) TOPSOIL, SELECTED GRADING, SELECT GRANULAR, SELECT GRANMOD, GRANULAR, LIGHT-WT FILL, TOTAL FILL. Includes project details: SP 0212-40, SP 114-010-11 TH 242.

EARTHWORK TABULATION

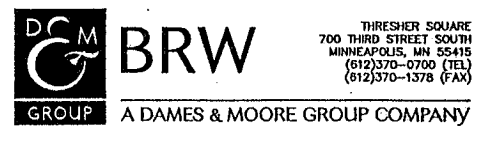
Table with columns: STATION TO STATION, EXCAVATION m3 COMMON, SUBRADE, MUCK, TOTAL CUT, EMBANKMENT m3 TOPSOIL, SELECTED GRADING, SELECT GRANULAR, TOTAL FILL. Includes project details: SP 0212-40, SP 114-010-11 POND.

PLOT DATE: Aug 25, 2004 4:52pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242\...dwg

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Table with columns: REV. NO., BY, DATE, REVISIONS DESCRIPTION. Includes revision history for design file 33889028.

Table with columns: DESIGN FILE, DRAWN BY, DESIGN BY, CHKD. BY, DWG. NAME, DATE. Includes design information for 33889028.



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. Kiehl 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

2 OF 5 SHEET NO. 12 539

EARTHWORK TABULATION

STATION TO STATION	EXCAVATION m3 (CV)			EMBANKMENT m3 (CV)				
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SAP 02-618-24 COON CREEK BOULEVARD (CSAH 18)								
1+180								
1+200	85.0	0.0	0.0	85.0	57.0	53.0	0.0	118.0
1+220	140.0	0.0	0.0	140.0	61.0	159.0	2.0	290.0
1+240	96.0	0.0	0.0	96.0	59.0	210.0	36.0	373.0
1+260	86.0	0.0	0.0	86.0	56.0	181.0	42.0	347.0
1+276.708	81.0	0.0	0.0	81.0	57.6	108.6	6.7	218.1
1+300	118.8	0.0	0.0	118.8	41.9	72.2	0.0	202.6
1+320	100.0	0.0	0.0	100.0	33.0	23.0	0.0	117.0
1+340	94.0	0.0	0.0	94.0	44.0	117.0	0.0	218.0
1+420	61.0	0.0	0.0	61.0	31.0	103.0	0.0	191.0
1+440	50.0	0.0	0.0	50.0	2.0	0.0	0.0	60.0
1+460	64.0	0.0	0.0	64.0	0.0	0.0	0.0	58.0
1+480	66.0	0.0	0.0	66.0	0.0	0.0	0.0	58.0
1+500	79.0	0.0	0.0	79.0	0.0	0.0	0.0	58.0
1+520	91.0	0.0	0.0	91.0	0.0	0.0	0.0	58.0
SUBTOTAL	1211.8	0.0	0.0	1211.8	396.5	1026.8	86.7	2366.7

EARTHWORK TABULATION

STATION TO STATION	EXCAVATION m3 (CV)				EMBANKMENT m3 (CV)			
	COMMON	SUBRADE	MUCK	TOTAL CUT	TOPSOIL	SELECTED GRADING	SELECT GRANULAR	TOTAL FILL
SAP 114-136-0 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	37.2	0.0	0.0	37.2	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	8.2	5.7	0.0	14.5
1+400	127.4	0.0	0.0	127.4	7.2	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	1.2	0.0	7.1
1+793.194	135.9	0.0	0.0	135.9	4.6	11.1	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

EARTHWORK TABULATION

STATION TO STATION	EXCAVATION m3 (CV)			EMBANKMENT m3 (CV)				
	COMMON	SUBRADE	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+275	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

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PLOT DATE: Aug 25, 2004 4:56pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\2421.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	9/29/00	MOD. REQ. #69: MOD. ND BLVD EARTHWORK QUANTITIES
2	JUL	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: JUL
CHKD. BY: KPK/JUL	DWG. NAME: 242TAB23	
DATE: NOVEMBER 5, 1999		



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

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

EARTHWORK SUMMARY (NEAT VOLUMES BASED UPON CROSS-SECTIONS)

TABLE 1
P

NOTES	ITEM	UNIT	CSAH 14	INTERCHANGE	TH 242	COON CREEK BOULEVARD	NORTHDALE BOULEVARD	CROOKED LAKE BOULEVARD	PROJECT TOTALS
			SAP 02-614-19 SAP 114-020-19	SP 0212-40 SP 114-010-11	SP 0212-40 SP 114-010-11	SAP 02-618-24	SAP 114-127-02	SP 114-136-02	
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	INTERCHANGE	TH 242	COON CREEK BOULEVARD	NORTHDALE BOULEVARD	CROOKED LAKE BOULEVARD	PROJECT TOTALS
			SAP 02-614-19 SAP 114-020-19	SP 0212-40 SP 114-010-11	SP 0212-40 SP 114-010-11	SAP 02-618-24	SAP 114-127-02	SP 114-136-02	
1	TOPSOIL REQUIRED (EV)	m3	4100	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	15202	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) - 270 257 m3 (EV) = -2 088 m3 (EV) / 1.2 = -1 740 m3 (CV), AND GRANULAR BORROW REQUIRED = 45 189 m3 (CV) - 1 740 m3 (CV) = 46 929 m3 (CV)

EARTHWORK QUANTITIES

TABLE 3
P

NOTES	SPEC NO.	ITEM	UNIT	CSAH 14	INTERCHANGE	TH 242	COON CREEK BOULEVARD	NORTHDALE BOULEVARD	CROOKED LAKE BOULEVARD	PROJECT TOTALS
				SAP 02-614-19 SAP 114-020-19	SP 0212-40 SP 114-010-11	SP 0212-40 SP 114-010-11	SAP 02-618-24	SAP 114-127-02	SP 114-136-02	
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	2105.511	GRANULAR BORROW (LV)	m3	2588 (7)	0	74541 (8)	0	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 420 m3 FOR CONSTRUCTION OF TEMPORARY PAVEMENT
7. INCLUDES 588 m3 FOR CONSTRUCTION OF TEMPORARY PAVEMENT.
8. INCLUDES 4148 m3 FOR CONSTRUCTION OF TEMPORARY PAVEMENT
9. INCLUDES 9975 m3 FOR BRIDGE ABUTMENT BACKFILL

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PLOT DATE: Aug 21 4 4:59pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	2/16/00	ADDEN & MODIFIED TABLE 2, NOTE 7.
2	JUL	6/28/00	MOD. REQ. #50: CHANGED TOPSOIL TO A PLAN QUANTITY & REMOVED SUBGRADE EX & SELECT GRANULAR BORROW FROM CSAH 14
3	JUL	6/30/00	MOD. REQ. #19A: ADDED EARTHWORK FOR BERM NEAR POND
4	JUL	7/5/00	MOD. REQ. #36: REVISED MENARD'S ENTRANCE, REMOVED RETAINING WALL
5	JUL	9/29/00	MOD. REQ. #69: MOD. MD BLVD EARTHWORK QUANTITIES
6	JUL	11/29/00	MOD. REQ. #72: MOD. BERM WEST OF CL BLVD
7	JUL	7/17/01	MOD. REQ. #74: REVISED POND EARTHWORK
8	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
 DRAWN BY: PJM
 DESIGN BY: JUL
 CHKED. BY: KPK/JUL
 DWG. NAME: 242TAB24
 DATE: NOVEMBER 5, 1999



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: 11/9/99 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

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

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

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

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

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/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 - 136 - 02	S.A.P. 114 - 127 - 02

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


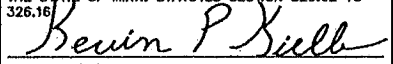
CLEARING & GRUBBING					
STATION TO STATION	LOCATION	CLEARING		GRUBBING	
		TREE	ha	TREE	ha
SAP 02-614-19, SAP 114-020-19					
MAIN ST. (C.S.A.H. 14)					
2+008-2+303	LT	1	.11	1	.11
2+008-2+303	RT	9		9	
2+303-2+614	RT	8		8	
2+614-2+894	RT	7		7	
2+894-3+211	LT	58		52	
SAP 02-614-19, SAP 114-020-19					
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+750-1+830	RT	16		16	
SAP 114-136-02 TOTAL =					
		83	.05	83	.05
PROJECT TOTAL =					
		235	1.49	229	1.49

RELOCATE MAIL BOX	
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					
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					
MAIN ST. STA. 2+030	LT-RT	75		45	
RIVER RAPIDS DR. STA. 0+952	RT		3		
RIVERDALE BLVD. 0+941	LT-RT	25		5	
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+014	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	7		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+750-0+784	LT	33		20	
0+815-0+831	LT-RT	16		9	
SAP 114-127-02 TOTAL =					
		164	2	98	

SAWCUT & BITUMINOUS MILLING (CONTINUED)					
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+959	LT-RT	9		5	
123rd AVE. 0+880	LT-RT	10		6	
123rd AVE. 0+990	RT		7		
SAP 114-136-02 TOTAL =					
		91	21	55	
PROJECT TOTAL =					
		2259	37	2519	2865

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<table border="1"> <thead> <tr> <th>REV. NO.</th> <th>BY</th> <th>DATE</th> <th>REVISIONS DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>JLL</td> <td>12/30/99</td> <td>UPDATED CLEARING AND GRUBBING QUANTITY</td> </tr> <tr> <td>2</td> <td>JLL</td> <td>5/9/00</td> <td>MOD. REQ. #26: ADDED CURB REMOVAL QUANTITY CLARIFIED BIT MILLING AREA ON COON CREEK BLVD</td> </tr> <tr> <td>3</td> <td>JLL</td> <td>7/5/00</td> <td>MOD. REQ. #36: ADDED CLEAR & GRUB, SAWCUT, & MILL</td> </tr> <tr> <td>4</td> <td>JLL</td> <td>7/12/00</td> <td>MOD. REQ. #40: MODIFY MILLING & SAWCUT TABS</td> </tr> <tr> <td>5</td> <td>JLL</td> <td>8/4/00</td> <td>MOD. REQ. #53: ADD SAWCUT UNDER BRIDGE</td> </tr> <tr> <td>6</td> <td>JLL</td> <td>9/7/00</td> <td>MOD. REQ. #55: MODIFY MILLING & SAWCUT TABS</td> </tr> <tr> <td>7</td> <td>TSR</td> <td>2/27/04</td> <td>AS-BUILT DRAWING</td> </tr> </tbody> </table>	REV. NO.	BY	DATE	REVISIONS DESCRIPTION	1	JLL	12/30/99	UPDATED CLEARING AND GRUBBING QUANTITY	2	JLL	5/9/00	MOD. REQ. #26: ADDED CURB REMOVAL QUANTITY CLARIFIED BIT MILLING AREA ON COON CREEK BLVD	3	JLL	7/5/00	MOD. REQ. #36: ADDED CLEAR & GRUB, SAWCUT, & MILL	4	JLL	7/12/00	MOD. REQ. #40: MODIFY MILLING & SAWCUT TABS	5	JLL	8/4/00	MOD. REQ. #53: ADD SAWCUT UNDER BRIDGE	6	JLL	9/7/00	MOD. REQ. #55: MODIFY MILLING & SAWCUT TABS	7	TSR	2/27/04	AS-BUILT DRAWING	DESIGN FILE: 33889028 DRAWN BY: PJM DESIGN BY: PJM CHKED BY: KP/JLL DWG. NAME: 242TAB01 DATE: NOVEMBER 5, 1999	 BRW A DAMES & MOORE GROUP COMPANY	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 (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
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PLOT DATE: (15.06) R:\33889\33889E\TABS\242tab04.dwg
Aug 25, 2004 5:02
DISK FILE NAME:

LIGHTING REMOVALS			
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	1	
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	

SALVAGE HYDRANT AND VALVE		
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				
STATION TO STATION	LOCATION	REMOVE WOODEN FENCE	REMOVE CHAIN LINK FENCE	SALVAGE & INSTALL CHLK FENCE
		m	m	m
SAP 02-618-24 COON CREEK BLVD.				
1+415-1+493	LT			84
1+390-1+490	RT			9
SAP 02-618-24 TOTAL =				93
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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GUARDRAIL SALVAGE AND REMOVAL						
STATION TO STATION	LOCATION	REMOVE	SALVAGE	REMOVE IMPACT ATTENUATOR	SALVAGE TWISTED END TREATMENT	REMOVE TWISTED END TREATMENT
		m	m	EACH	EACH	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+467.840	LT	46		1		
3+423.240-3+458.680	RT	46		1		
TH 10/47						
EB 8+044-8+072	RT	28				
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+208-1+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	2

WATER MAIN REMOVAL					
STATION TO STATION	LOCATION	WATER MAIN	STEEL CASING	PVC SPRINKLER PIPE	ABANDON WATER MAIN
		m	m	m	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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	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	JUL	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	JUL	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: JUL
CHKD. BY: KPK	DWG. NAME: 242TAB04	
DATE: NOVEMBER 5, 1999		



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. Kiehl

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

DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242tab03.dwg

PLOT DATE:

Aug 25, 2004 5:01

CONCRETE REMOVAL

H

STATION TO STATION	LOCATION	CURB & GUTTER m	NOSE m2	WALK m2	DRIVEWAY PAVEMENT m2	MEDIAN m2	SLOPE PAVEMENT m2	APPROACH PANEL m2	CONCRETE PAVEMENT 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			
242RAMP A		90				29			
242RAMP B		208							
242RAMP C		474	4						
242RAMP D		818	180						
242RAMP D	ISLAND	25				35			
242RAMP D	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 m	SIDEWALK m2	SHOULDER m2	PAVEMENT m2	DRIVEWAY 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		867	563
SAP 114-136-02 TOTAL =		572	181		867	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	JUL	5/09/00	MOD. REQ. #26: ADDED BIT CURB REMOVAL QUANTITY
2	JUL	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	JUL	7/12/00	MOD. REQ. #40: MODIFY BIT REMOVAL TABS
5	JUL	8/04/00	MOD. REQ. #53: ADD PAVE REMOVAL UNDER BRIDGE
6	JUL	9/07/00	MOD. REQ. #59: MOD. CURB AND DRIVEWAY REMOVALS
7	JUL	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
CHCKD. BY: KPK/JUL	DWG. NAME: 242TAB03	DATE: NOVEMBER 5, 1999



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. Kullb

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

4 OF 10
SHEET NO.
19
539

STORM SEWER AND CULVERT REMOVALS

STATION	LOCATION	ITEM INPLACE	REMOVE				ABANDON		SALVAGE	
			STORM PIPE m	PIPE CULVERT m	CATCH BASIN EACH	APRON EACH	STORM PIPE m	STORM PIPE m	CATCH BASIN EACH	
SAP 02-614-19, SAP 114-020-19 MAIN STREET (CSAH 14)										
ROUND LAKE BLVD.	RT	825 mm RCP	21							
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				2				
RAMP B										
8+250	CROSSING					2				
8+380	RT	600 mm RCP				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				
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)

STATION	LOCATION	ITEM INPLACE	REMOVE				ABANDON		SALVAGE	
			STORM PIPE m	PIPE CULVERT m	CATCH BASIN EACH	APRON EACH	STORM PIPE m	STORM PIPE m	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

STATION	LOCATION	ITEM INPLACE	REMOVE				
			SEWER PIPE m	FORCE MAIN m	MANHOLE EACH	LIFT STA. EACH	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			3		
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.

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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLR	12/30/99	DELETED COLUMN REMOVE CULVERT MARKER
2	JLL	5/25/00	MOD. REQ. #108: ADDED SANITARY SEWER PIPE REMOVAL
3	BJK	7/7/00	MOD. REQ. #36: ADDED COL FOR SALVAGE STORM SEWER
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DESIGNED BY: PJM	DESIGN BY: PJM
CHKED. BY: KPK/JLL	DWG. NAME: 242TAB02	DATE: NOVEMBER 5, 1999



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. Kullb
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

EXISTING UTILITY ADJUSTMENTS - WATERMAIN & SANITARY SEWER										K2
STATION TO STATION	LOCATION	OFFSET m	ADJUST VALVE		FRAME & RING CASTING		RECONSTRUCT MANHOLE			
			EXIST ELEV m	PROP ELEV m	EXIST ELEV m	PROP ELEV m	EXIST ELEV m	PROP ELEV m	ELEV DIFF 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	8.590					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	3.376								
(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	B.K.	7/20/00	MOD. REQ. #11: ADDED EXISTING UTILITY ADJUSTMENTS TAB
2	J.L.	8/10/00	MOD. REQ. #57: REMOVED ONE VALVE ADJUSTMENT
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028

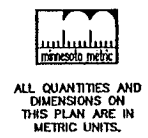
DRAWN BY:
PJM

DESIGN BY:
PJM

CHKD. BY:
KPK/JUL

DWG. NAME:
242TABO2A

DATE:
NOVEMBER 5, 1999



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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

5A OF 10

SHEET NO.
20A

539

CURB & GUTTER

PROJECT NO.	ROADWAY	STA. TO STA.	LOCATION	B424	B618	B618	B612	B418	D424	SURM.	
				(MOD.)	(MOD.)	m	m	m	m	m	(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	2	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+270	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

PROJECT NO.	ROADWAY	STA. TO STA.	LOC.	100 mm	AGG.	100 mm	AGG.	100 mm	AGG.	SPEC.	AGG.	150 mm	AGG.	200 mm	AGG.
				CONC. WALK	BASE CL 5	CONC. SPEC. 1	BASE CL 5	CONC. SPEC. 2	BASE CL 5	WALK	BASE CL 5	CONC. D/W PVMT.	BASE CL 5	CONC. D/W PVMT.	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	387	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+553	RT					94	12						
	E.B. TH 242	3+212-3+514	RT	258	37	72	11	28	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	2004	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									10	14		
		1+825	RT									8	2		
SUBTOTAL =				1187	171			153	3						
PROJECT TOTAL =				8226	1199	1243	184	5663	740	1530	753	298	60	150	32

CONCRETE PEDESTRIAN CURB RAMP

PROJECT NO.	ROADWAY	PED. RAMP EACH
SAP 02-614-19, SAP 114-020-19	CSAH 14	23
SP 0212-40, SP 114-010-11	TH 242	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.

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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	MOVED QUANTITIES FOR 3+852 D/W TO CORRECT ROW 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
2	JLL	5/09/00	DEL. D/W AT 3+852, MODIFIED BIT. & AGG. QUANTITIES MOD. REQ. #26: ADDED B618 CURB QUANTITY
3	JLL	5/30/00	MOD. REQ. #32: MOD. WALK, CURB, RAMP & D/W QUANT.
4	JLL	6/01/00	MOD. REQ. #27: ADD WALK, SPEC. 1 & 150 mm D/W
5	BJR	7/05/00	MOD. REQ. #36: MOD. QUANT. FOR MENARDS LOT
6	JLL	7/10/00	MOD. REQ. #47: MOD. QUANT. SPEC WALK & CL V
7	JLL	7/14/00	MOD. REQ. #51: MOD. QUANT. CONC. WALK, CL V & CURB
8	JLL	7/31/00	MOD. REQ. #52: MOD. QUANT. CONC. WALK & CL V
9	JLL	8/01/00	MOD. REQ. #53: ADD COLUMN FOR B418, MOD. QUANT.
10	JLL	8/04/00	MOD. REQ. #53: ADD CURB UNDER BRIDGE
11	JLL	8/08/00	MOD. REQ. #56: MOD. WALK QUAN. FOR ND BLVD & 124TH
12	JLL	9/07/00	MOD. REQ. #59: MOD. CURB & GUTTER FOR BANK DRIVE
13	JLL	9/08/00	MOD. REQ. #65: MOD. CONCRETE D/W PAVEMENT
14	JLL	9/12/00	MOD. REQ. #64: ADDED CONC. D/W APRONS AT AMOCO
15	JLL	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
 CHECKED BY: KPK/JLL
 DWG. NAME: 242TAB07
 DATE: NOVEMBER 5, 1999



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. Kiel
 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
 6 OF 10

BITUMINOUS AND AGGREGATE SUMMARY

0

STATION TO STATION	LOC.	INSET	AGG. BASE														BIT. TACK COAT			
			2211.503	2360.609			2357.502													
			CLASS 5 (CV) (P)	SPWEB440F INSET 1 WEAR	SPNWC430B INSET 1 NON-WEAR	MVWE35035F INSET 2 WEAR	MVNW35035F INSET 2 NON-WEAR	LVWE35030B INSET 3,4,6,15 SHLD. WEAR	HVWE37540C INSET 5 WEAR	HVNW37540C INSET 5 NON-WEAR	MVNW35035B INSET 5 NON-WEAR	MVWE35035C INSET 7 WEAR	MVNW35035B INSET 7, 8 NON-WEAR	HVNW35040B INSET 8 NON-WEAR	LVNW35030B INSET 3,8 NON-WEAR	HVWE37540B INSET 8 WEAR	LVWE35030B INSET 9, 10 WEAR	LVNW35030B INSET 9, 10 NON-WEAR	2357.502	
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			355														237	356		464
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	1117	912															2382
TH 10/47 BENEATH BRIDGE		15	152					179												
RAMP A																				
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	57													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)
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)
TOTAL =			4914	4619	3464			462								289				11225
SAP 02-618-24																				
COON CREEK BLVD (CSAH 18)																				
1+052 - 1+520	RT-LT	5	1053					124	792	813	626									2448
1+200 - 1+520	SHLD.	6	358																	
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																	1643
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)												1358
HEATHER, GLADIOLA, 123RD AVENUE																				
		10	83															49	61	121
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	

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

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

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

(15.06) R:\33889\33889028\33889E\TABS\242c.dwg
 Aug 25, 5:14pm

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

DESIGN FILE:
33889028
 DRAWN BY:
JUL
 CHECKED BY:
KPK/JUL
 DWG. NAME:
242TAB05
 DATE:
NOVEMBER 5, 1999



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

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

7 OF 10
 SHEET NO.
 22
 539

TURF ESTABLISHMENT

Table with columns: STATION TO STATION, LOCATION, SEEDING AREA, SEED MIX 50A, SEED MIX 1, SEED MIX 2, SEED MIX 3, SODDING TYPE SALT RESISTANT, MULCH MATERIAL TYPE 7, DISC ANCHORING, COMMERCIAL FERTILIZER ANALYSIS 22-05-10. Includes rows for MAIN STREET (CSAH 14) and COON CREEK BLVD.

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

Table with columns: NOTES, STRUCTURE (STRUCTURE NUMBER, STATION, OFFSET, STRUCT. DESIGN, RIM ELEV., LOW STRUCT. ELEV., PAY HEIGHT, F & I CASTING ASSEMBLY), DRAINS TO (STRUCTURE NUMBER, SLOPE), 150 mm SDR 35 PVC, 200 mm SDR 35 PVC, 250 mm SDR 35 PVC, 250 mm DIP CL 52, 150 mm PIPE PLUG, ADJUST FRAME & CASTING EACH, CONNECT TO EXISTING EACH, 250 mm OUTSIDE DROP. Includes rows for MAIN STREET (CSAH 14) and NORTHDALE BOULEVARD.

- 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

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

(15.06) R:\33889\33889028\33889E\TABS\242tab.dwg Aug 25, 1999 4 5:18pm

Table with columns: REV. NO., BY, DATE, REVISIONS DESCRIPTION. Includes revision history for plan changes and modifications.

DESIGN FILE: 33889028
DRAWN BY: IKR
DESIGN BY: JIL
CHECKED BY: KPK/JUL
DWG. NAME: 242TAB08
DATE: NOVEMBER 5, 1999



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. Kull
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

9 OF 10
SHEET NO. 24
539

TEMPORARY EROSION CONTROL

X

STATION TO STATION	LOCATION	2573.603	2573.603
		SILT FENCE MACHINE SLICED m	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+349	LT - RT		31
2+804	LT - RT		48
2+934 TO 3+211.698	RT	275	
3+030 TO 3+091	LT	55	
SUBTOTAL		434	196
SP 0212-40, SP 114-010-11			
INTERCHANGE			
RAMP C, 7+532 TO 7+589	RT	60	10
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+367	RT	216	
RAMP B, 8+257 TO 8+394	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+575	RT		10
RAMP B, 8+601	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

X

STATION TO STATION	LOCATION	2573.603	2573.603
		SILT FENCE MACHINE SLICED m	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	172	
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.

Aug 25, 1999 5:19pm (15.06) R:\33889\33889028\33889E\TABS\242tab.dwg

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	DESIGN BY: JUL
DRAWN BY: IKR	DWG. NAME: 242TAB09
CHKD. BY: KPK/JUL	DATE: NOVEMBER 5, 1999



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. Kuelb

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.P. 02 - 614 - 19
S.A.P.	02 - 618 - 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: Aug 24, 2004 5:13pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\tabs\242e\242e.dwg

GAS				
STATION TO STATION	LOCATION	OFFSET	ITEM IN PLACE	REMARKS
		m		
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				
STATION TO STATION	LOCATION	OFFSET	ITEM IN PLACE	REMARKS
		m		
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.				
STATION TO STATION	LOCATION	OFFSET	ITEM IN PLACE	REMARKS
		m		
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 BEVLAQUA
 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	JUL	12/1/99	ADDED "BY OTHERS" TO REMARKS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DESIGN BY: JUL
DRAWN BY: PJM	CHKD. BY: KPK
DWG. NAME: 242EUTAB	DATE: NOVEMBER 5, 1999



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. Kiehl
 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)	SHEET NO.
S.A.P. 02 - 614 - 19	26
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

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

POWER				
STATION TO STATION	LOCATION	OFFSET	ITEM IN PLACE	REMARKS
		m		
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				
STATION TO STATION	LOCATION	OFFSET	ITEM IN PLACE	REMARKS
		m		
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	DESIGN BY: PBD
DRAWN BY: PJM	CHKD. BY: KPK
DWG. NAME: 242EUTAB	DATE: NOVEMBER 5, 1999

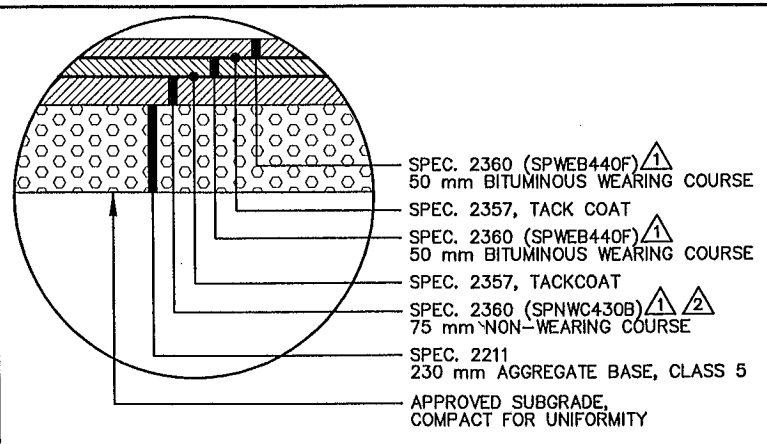


I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kiehl
 DATE: 11/5/99 MINN. REG. NO. 23211

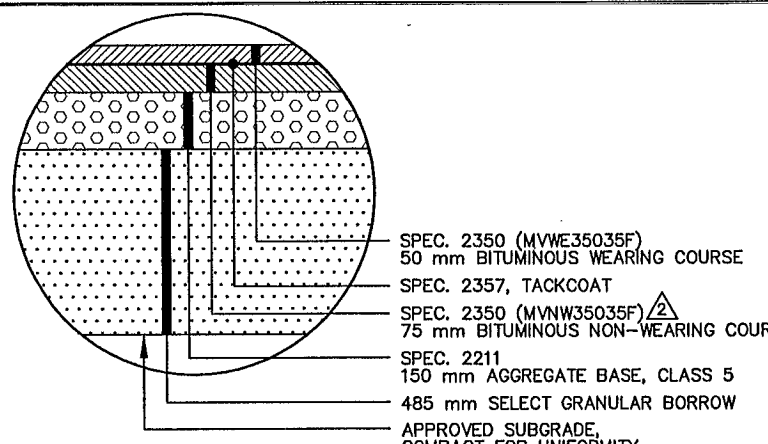
MAIN STREET/T.H. 242 RECONSTRUCTION
 MAIN STREET/TH 242
 TABULATED QUANTITIES
 EXISTING UTILITIES
 CITY PROJECT 98-20

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	

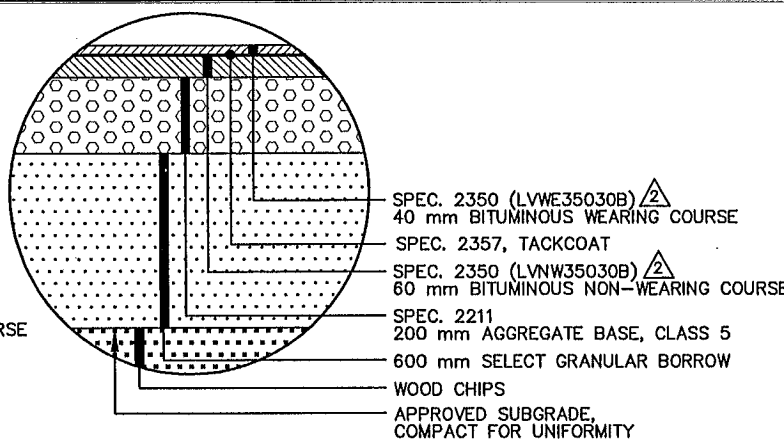
SHEET NO.
 27
 539



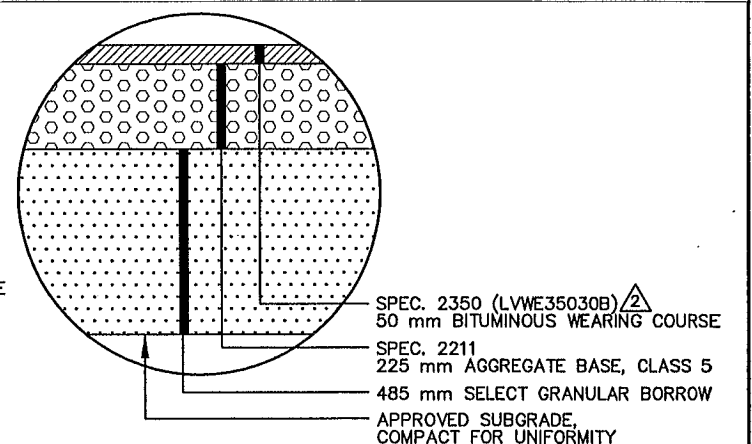
**BITUMINOUS PAVEMENT for
MAIN STREET (CSAH 14/TH 242),
RAMP B, RAMP D and LEG D1
INSET 1**



**BITUMINOUS PAVEMENT for
RAMP A and RAMP C
INSET 2**

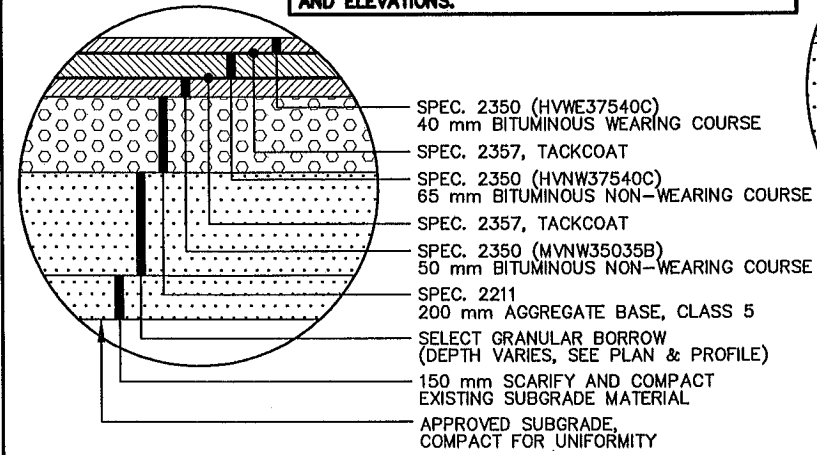


**TEMPORARY BITUMINOUS PAVEMENT
for MAIN STREET/TH 242 from
COON CREEK BOULEVARD to COON CREEK
INSET 3**

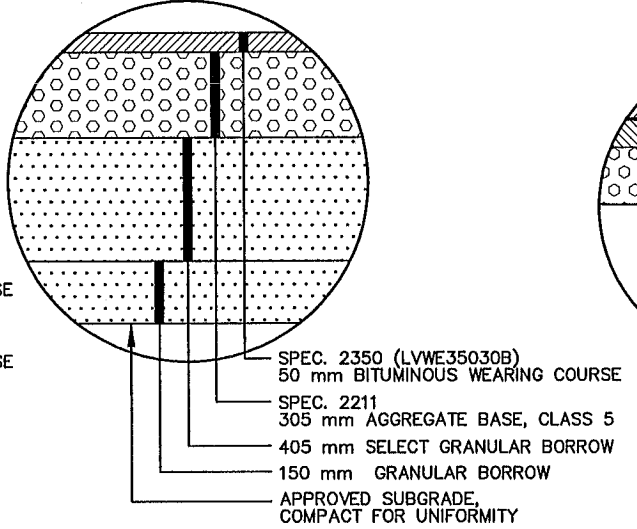


**BITUMINOUS SHOULDERS for
RAMP A and RAMP C
INSET 4**

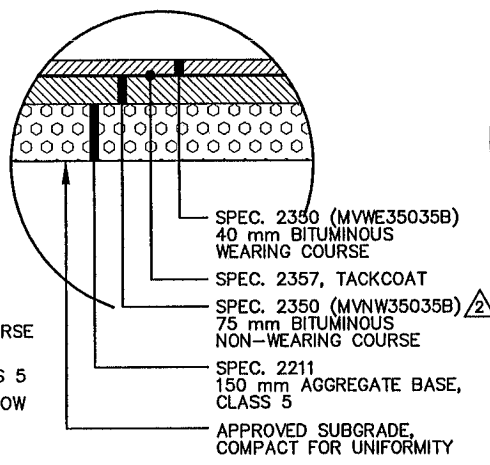
**AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT
WARRANTY AS TO ACCURACY OR FITNESS FOR ANY
PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS
AND ELEVATIONS.**



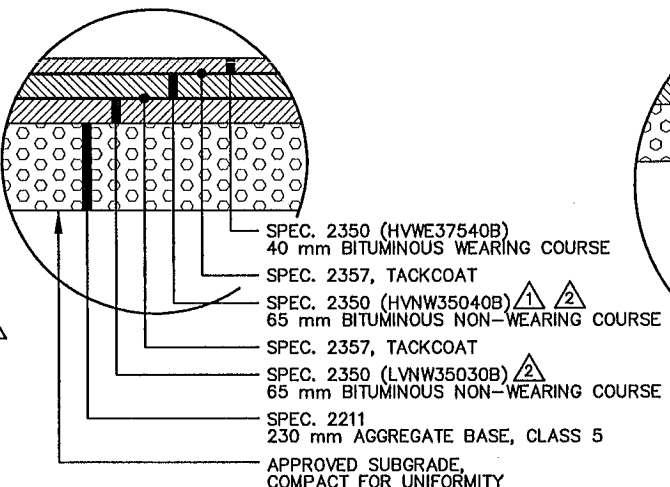
**BITUMINOUS PAVEMENT for
COON CREEK BOULEVARD
INSET 5**



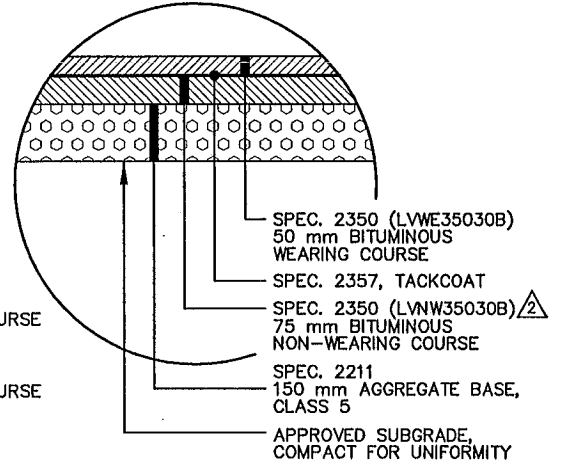
**BITUMINOUS SHOULDERS for
COON CREEK BOULEVARD
INSET 6**



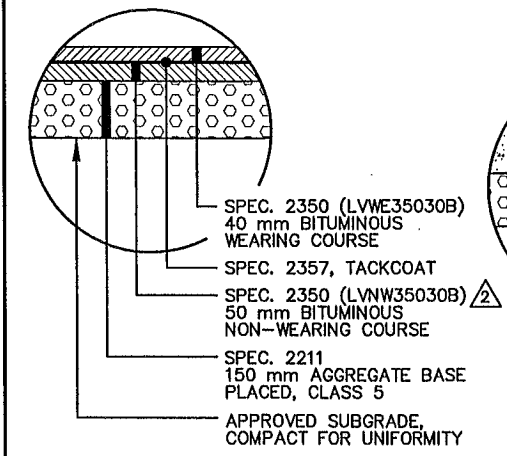
**BITUMINOUS PAVEMENT for
NORTHDALE BOULEVARD
(North of Main Street)
INSET 7**



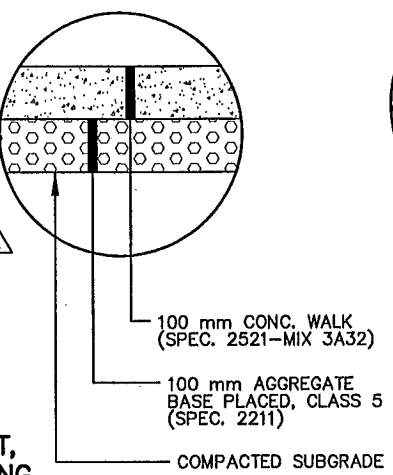
**BITUMINOUS PAVEMENT for
NORTHDALE BOULEVARD
(South of Main Street)
INSET 8**



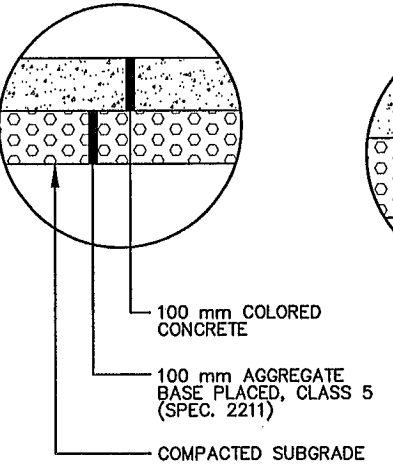
**BITUMINOUS PAVEMENT for
RIVER RAPIDS DRIVE,
RIVERDALE VILLAGE BOULEVARD,
124th AVE. NW/CROOKED LAKE BOULEVARD
and MENARD'S PARKING LOT
INSET 9**



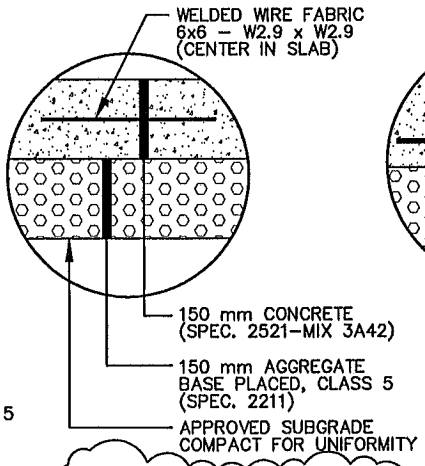
**BITUMINOUS PAVEMENT for
GLADIOLA STREET, HEATHER STREET,
123rd AVENUE NW, MENARD'S PARKING
LOT & WELLS FARGO PARKING LOT
INSET 10**



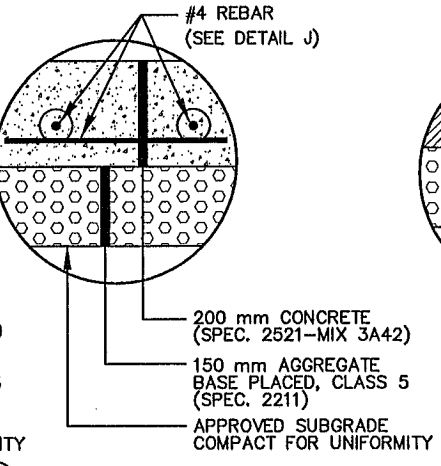
**100 mm CONCRETE WALK
INSET 11**



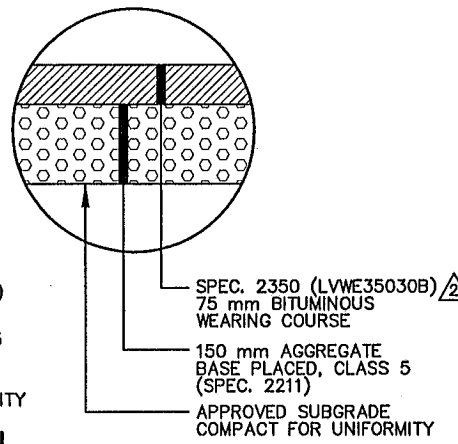
**100 mm COLORED
CONCRETE WALK
INSET 12**



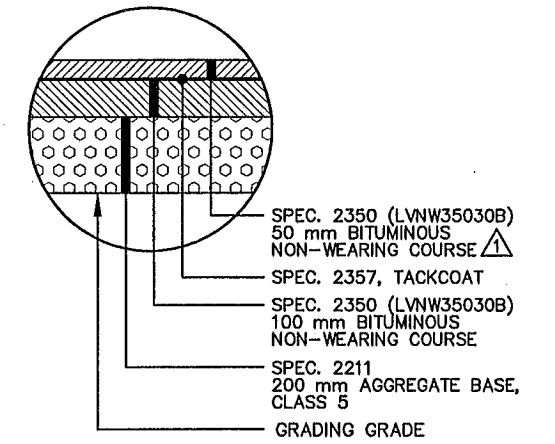
**CONCRETE COMMERCIAL
D/W APRONS
and RESIDENTIAL D/W's
INSET 13**



**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**

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

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 SECTIONS (INSET 16)
2	JUL	2/11/00	ADDEND 72 MODIFIED MIX DESIGNS FOR INSETS 1, 8 & 16
3	JUL	2/16/00	ADDEND 72 MOD. MIX DESIGNS INSETS 1, 2, 3, 4, 7, 8, 9, 10, 15
4	JUL	6/28/00	MOD. REQ. #31: MOD. INSET 1 - REMOVE SELECT GRANULAR
5	JUL	7/05/00	MOD. REQ. #36: ADDED MENARD'S LOT TO INSETS 9 & 10
6	JUL	9/07/00	MOD. REQ. #56: ADDED BANK LOT TO INSET 10
7	JUL	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
CHKD. BY: KPK/PBD	DWG. NAME: 242ETS01	
DATE: NOVEMBER 5, 1999		



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Kevin P. Kiehl

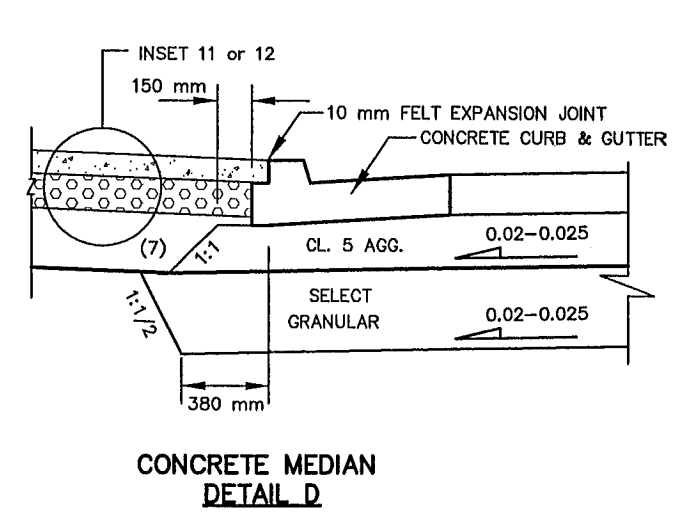
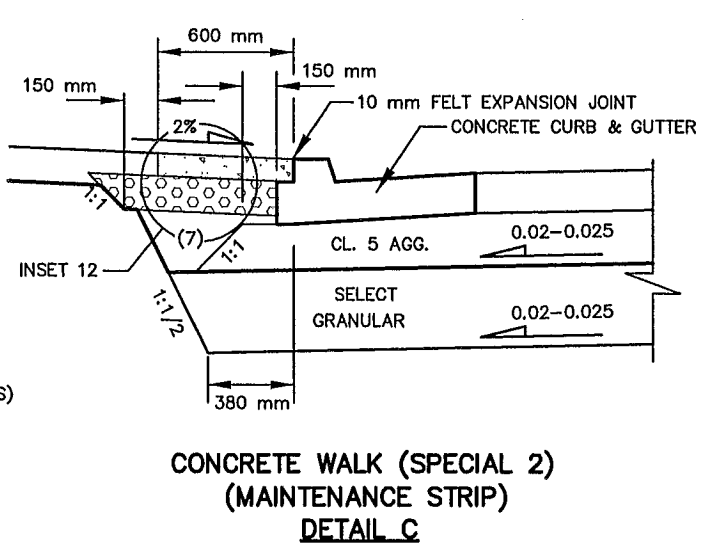
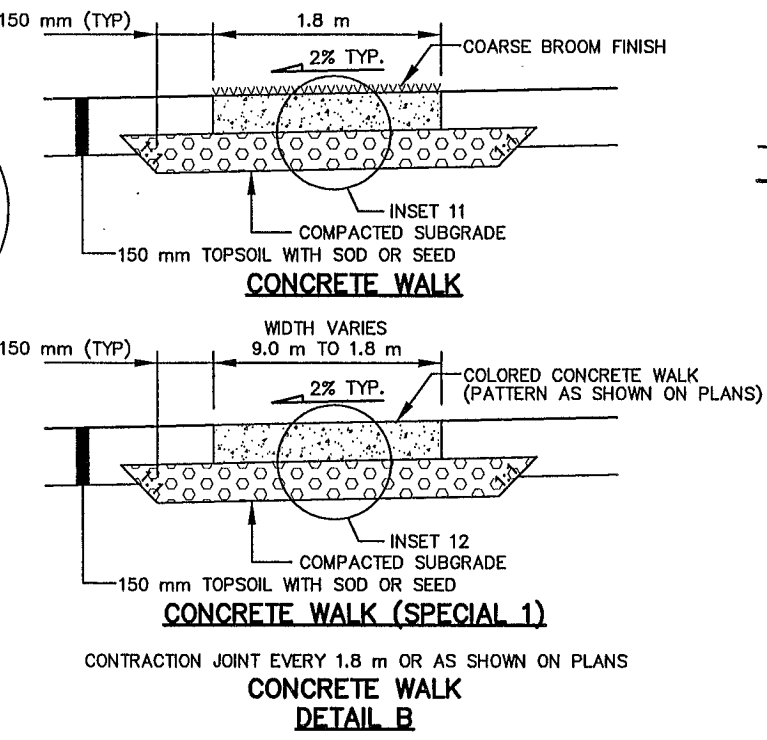
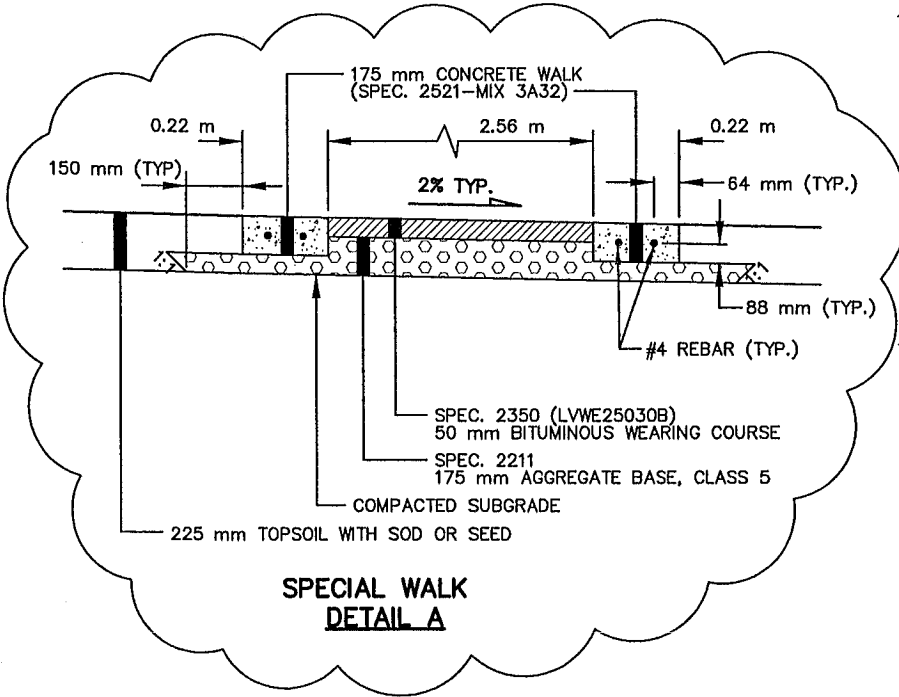
DATE: 11/5/99 MINN. REG. NO. 23211

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

TYPICAL SECTIONS
PAVEMENT INSETS

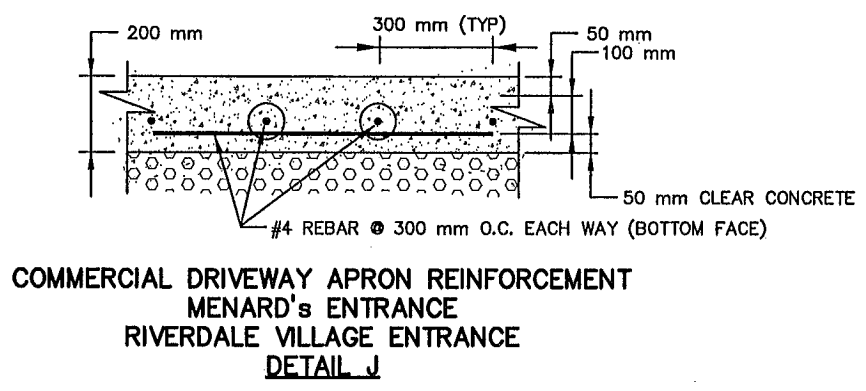
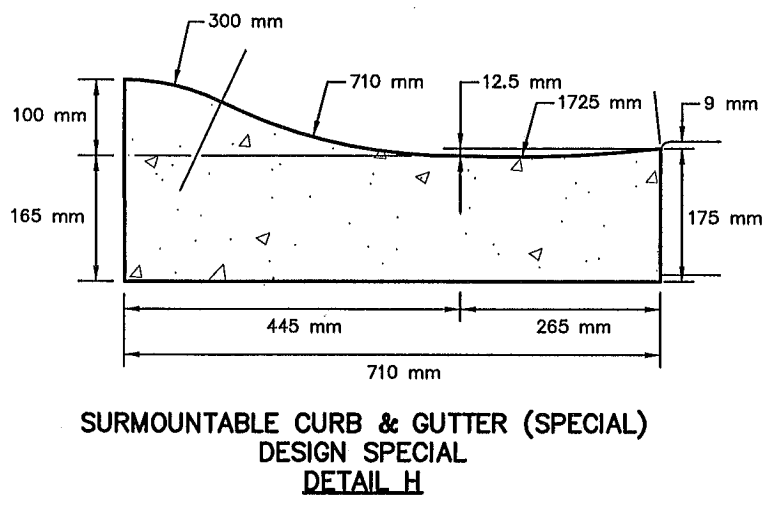
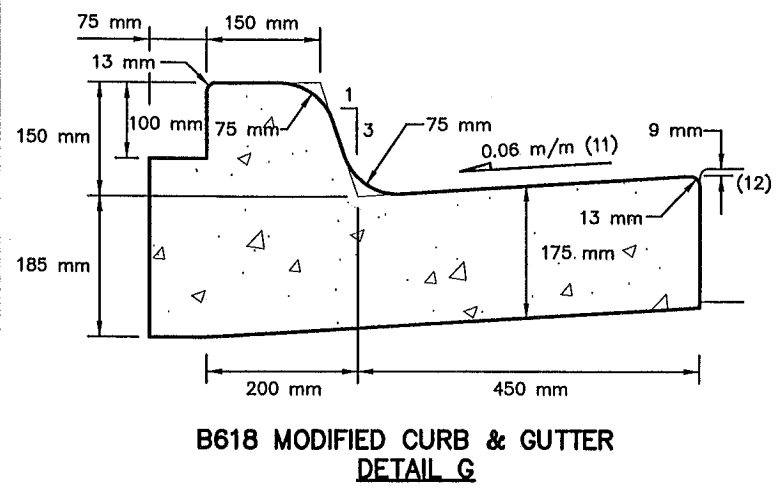
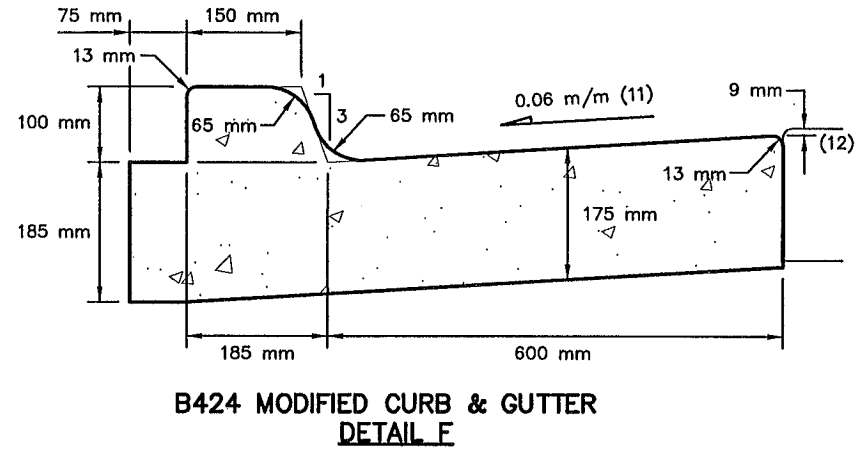
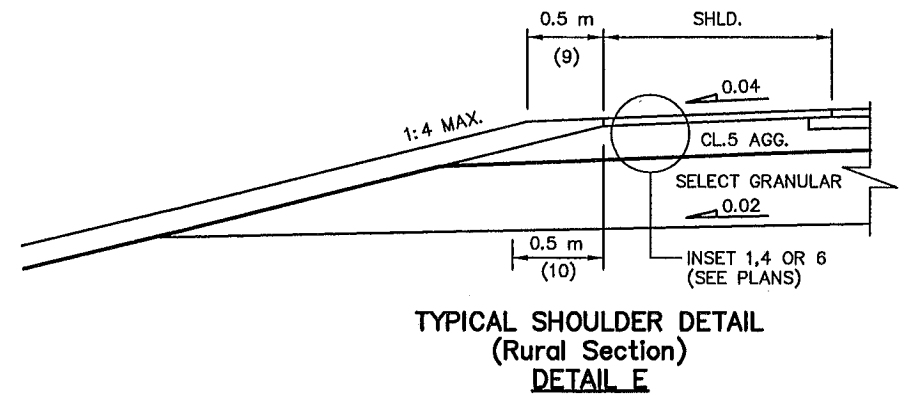
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	28
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539



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.



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

PLOT DATE: Aug 23, 2004 8:58am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242et.jwg

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
CHCKED BY: KPK/PBD	DWG. NAME: 242ETS02	DATE: NOVEMBER 5, 1999

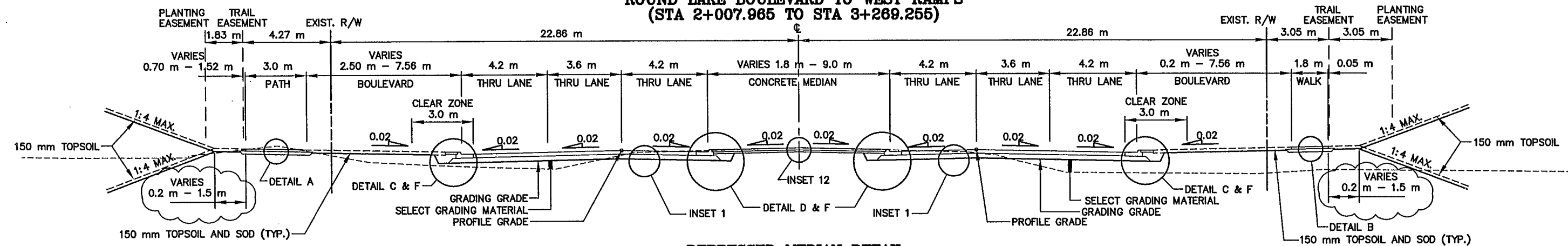


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Kevin P. Kiehl
 DATE: 11/5/99 MINN. REG. NO. 23211

**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	

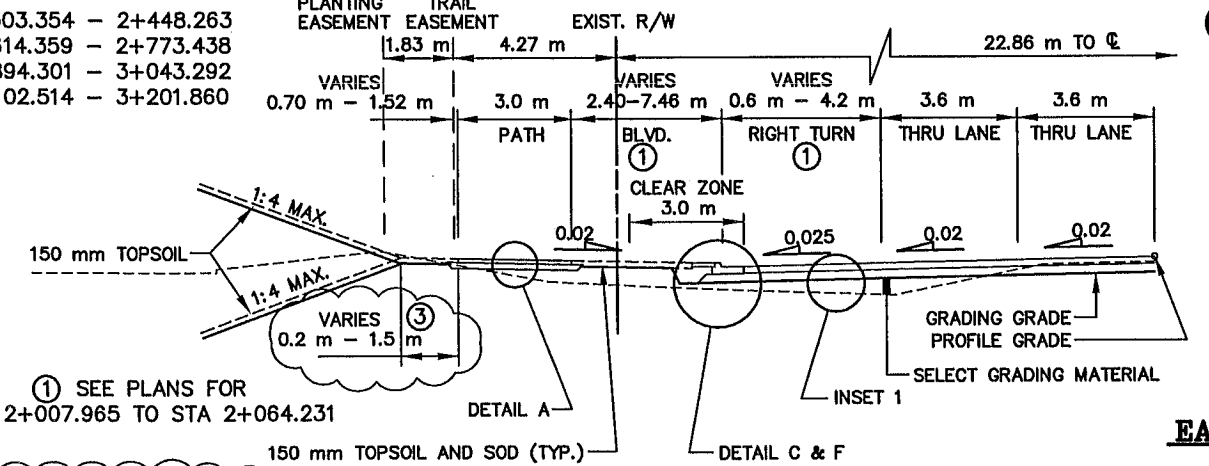
PROPOSED TYPICAL SECTION MAIN STREET ROUND LAKE BOULEVARD TO WEST RAMPS (STA 2+007.965 TO STA 3+269.255)



STATIONS

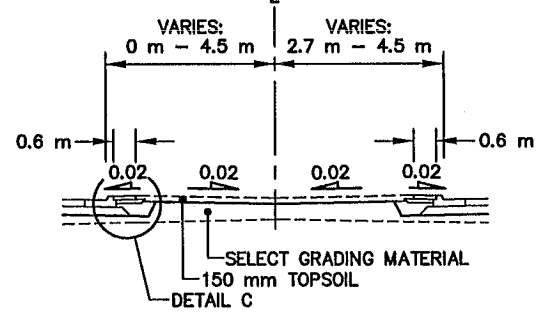
2+303.354 - 2+448.263
2+614.359 - 2+773.438
2+894.301 - 3+043.292
3+102.514 - 3+201.860

WEST BOUND RIGHT TURN LANE

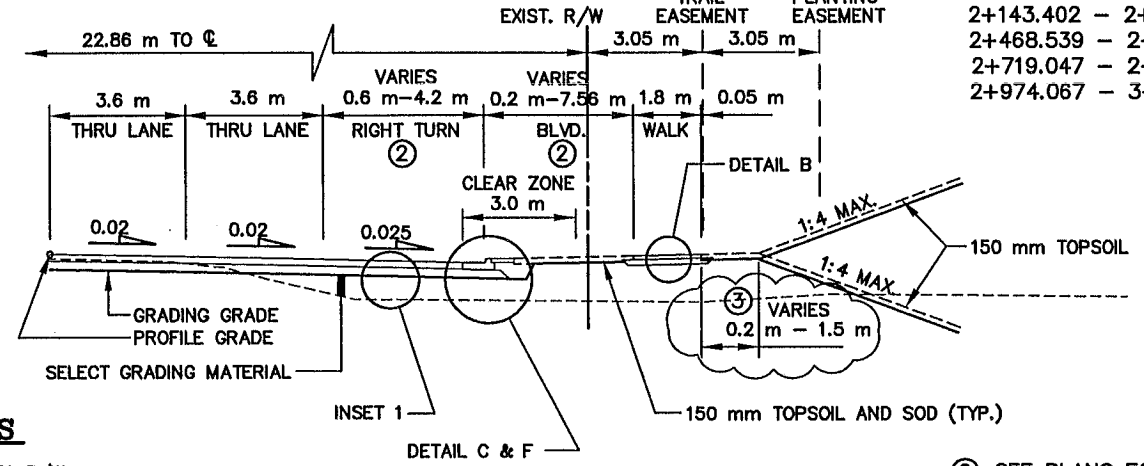


DEPRESSED MEDIAN DETAIL

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



EAST BOUND RIGHT TURN LANE



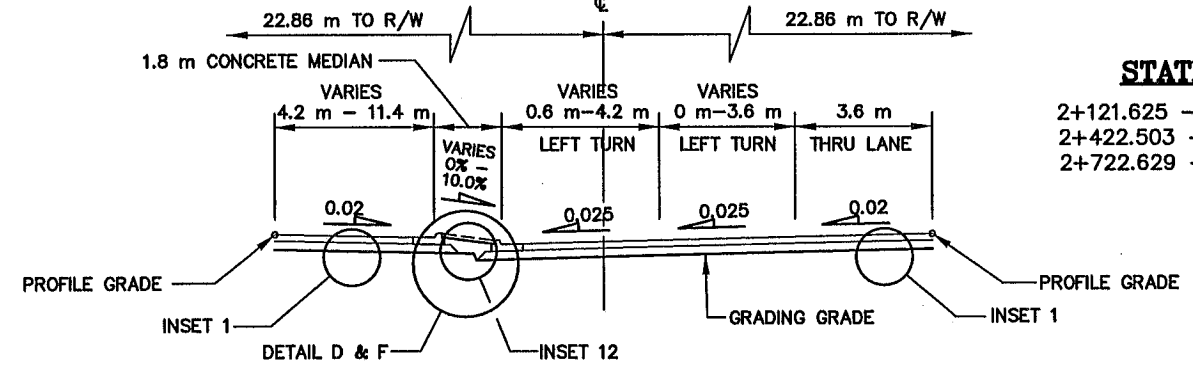
STATIONS

2+143.402 - 2+303.354
2+468.539 - 2+614.359
2+719.047 - 2+894.301
2+974.067 - 3+216.017

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

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

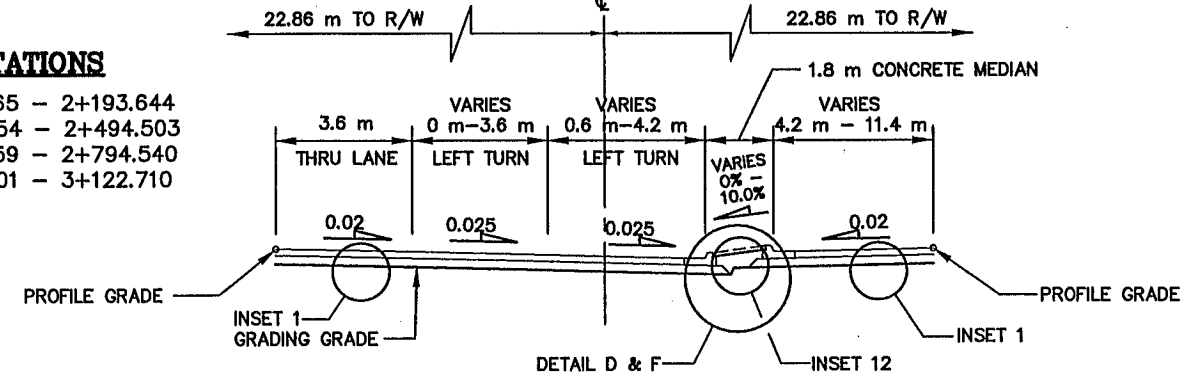
EAST BOUND DOUBLE LEFT TURN LANES



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

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

③ 0.2 m IN ALL CUT SECTIONS, 0.2 - 1.5 m IN FILL SECTIONS AS NOTED 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.

NOTE:

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

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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED DIMENSIONS WB RIGHT TURN LANE
2	JUL	8/30/00	ADDED DEPRESSED MEDIAN DETAIL
3	PMJ	7/5/00	MOD. REQ. #31: 2+007.965-3+269.255, OMITTED SUBCLUT & SELECT GRANULAR BACKFILL IS SELECT GRADING MAT'L.
4	TSR	2/27/04	MOD. REQ. #36: REVISED SIDE SLOPE DIMENSIONS AS-BUILT DRAWING

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

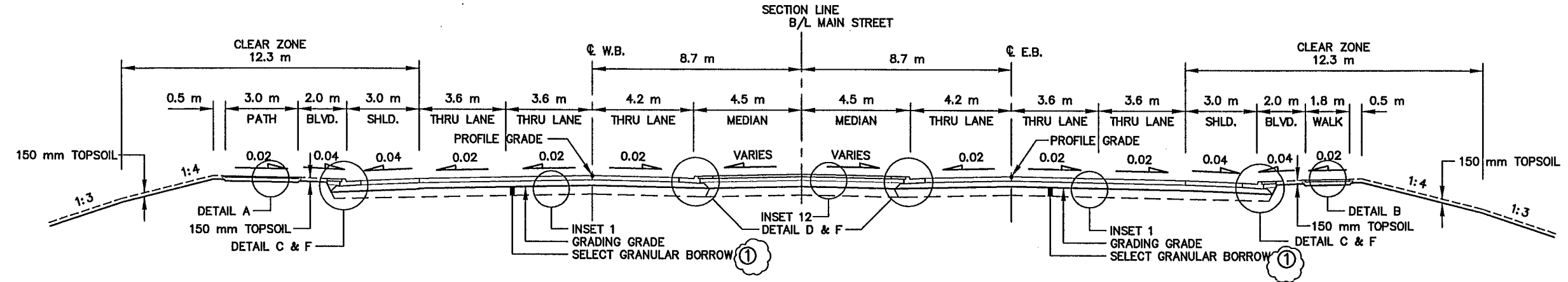


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Kevin P. Kiel
DATE: 11/5/99 MINN. REG. NO. 23211

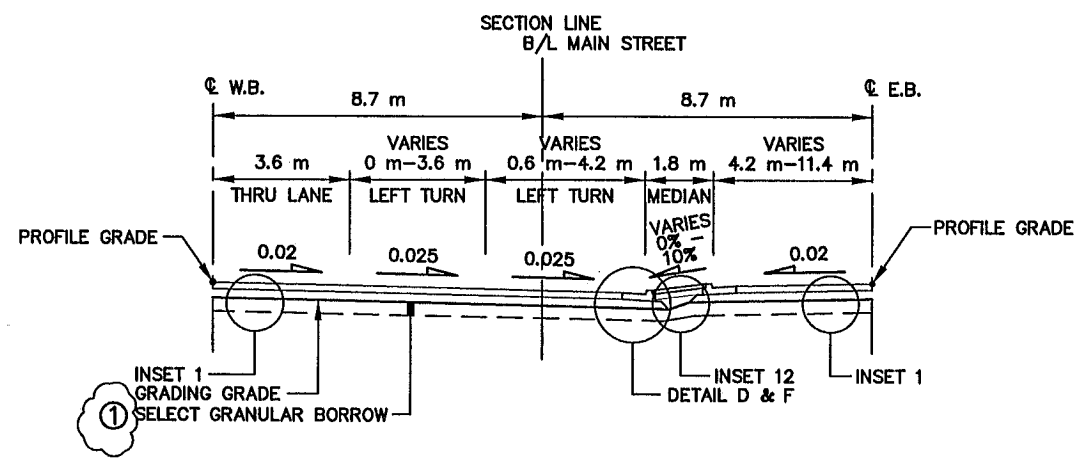
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
TYPICAL SECTIONS
ROUND LAKE BOULEVARD TO WEST RAMPS
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	30
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

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

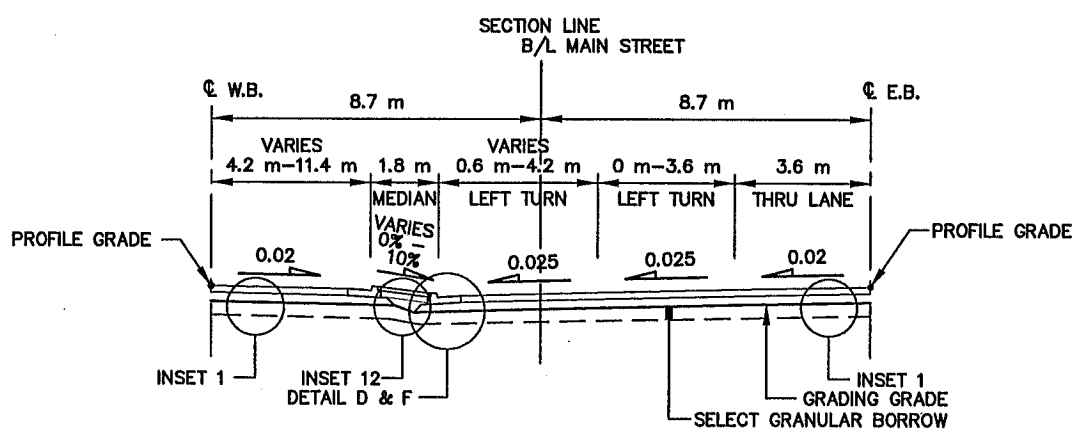


WEST BOUND DOUBLE LEFT TURN LANES



STATIONS
3+269.255 - 3+436.767

EAST BOUND DOUBLE LEFT TURN LANES



STATIONS
3+400.935 - 3+525.303

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

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

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

PLOT DATE: Aug 23, 2004 8:58am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242et.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	J.L.	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
CHKD. BY: KPK/PBD	DWG. NAME: 242ETS03	
DATE: NOVEMBER 5, 1999		

BRW GROUP
A DAMES & MOORE GROUP COMPANY

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Kevin P. Kullb

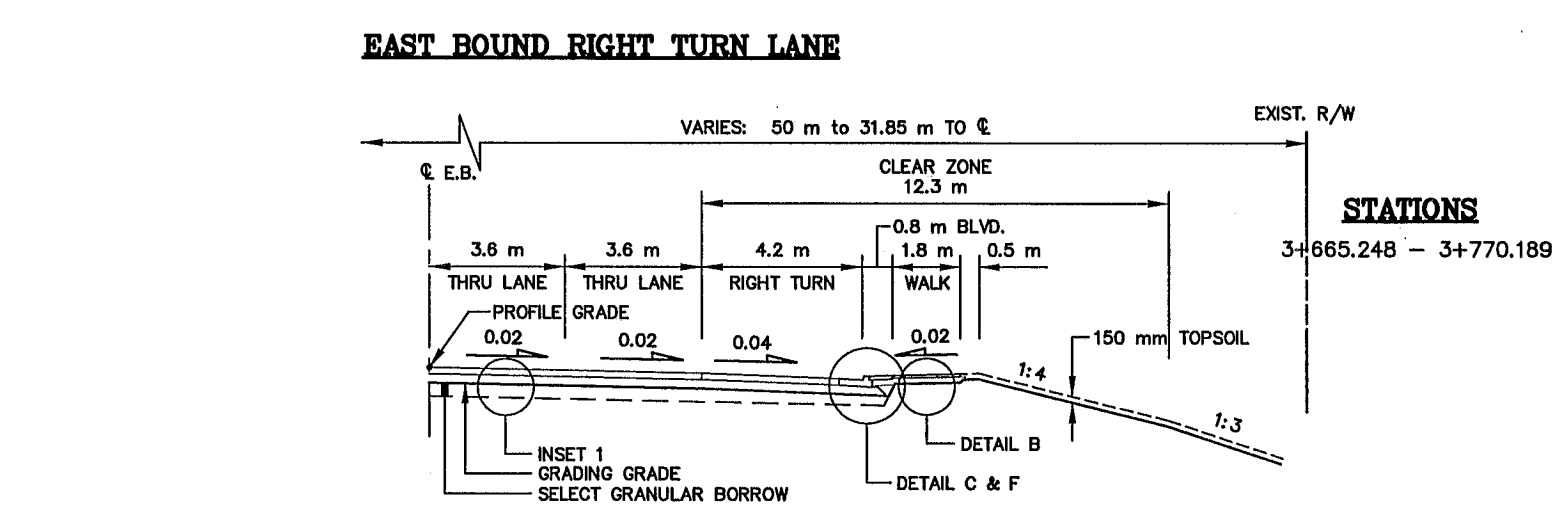
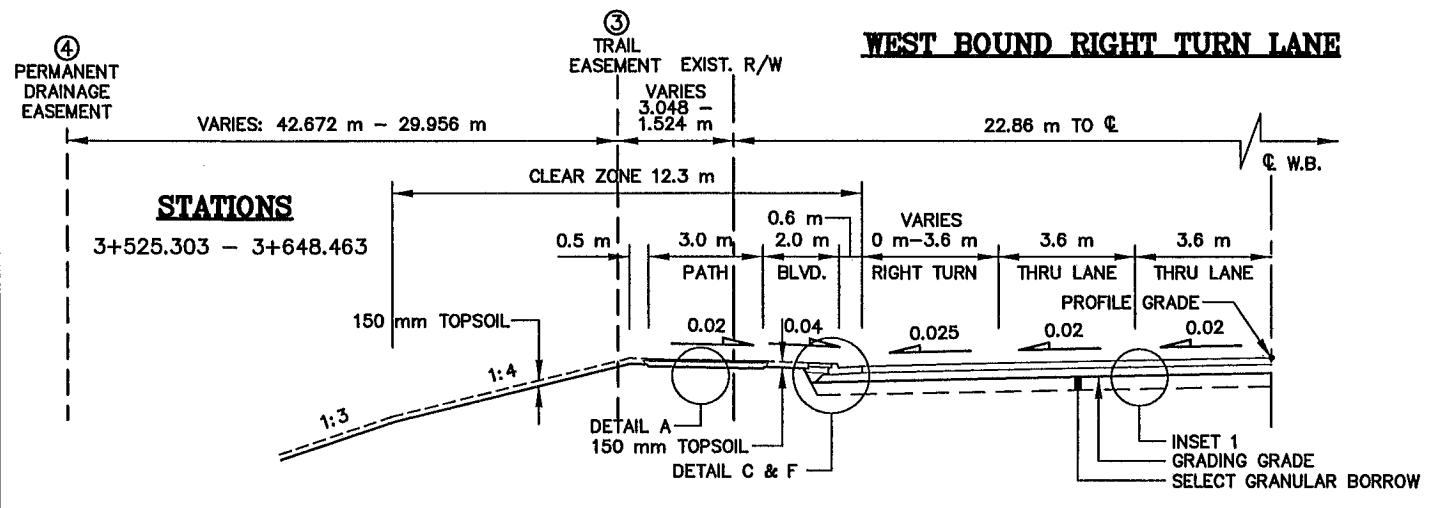
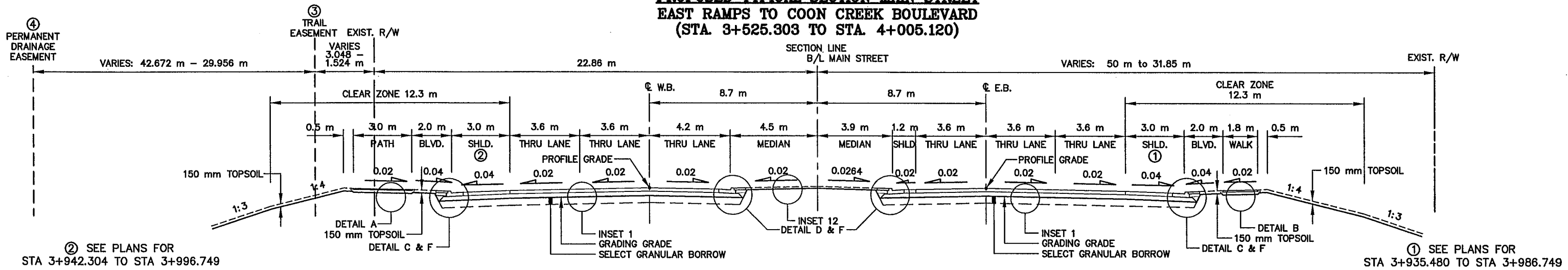
DATE: 11/5/99 MINN. REG. NO. 23211

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

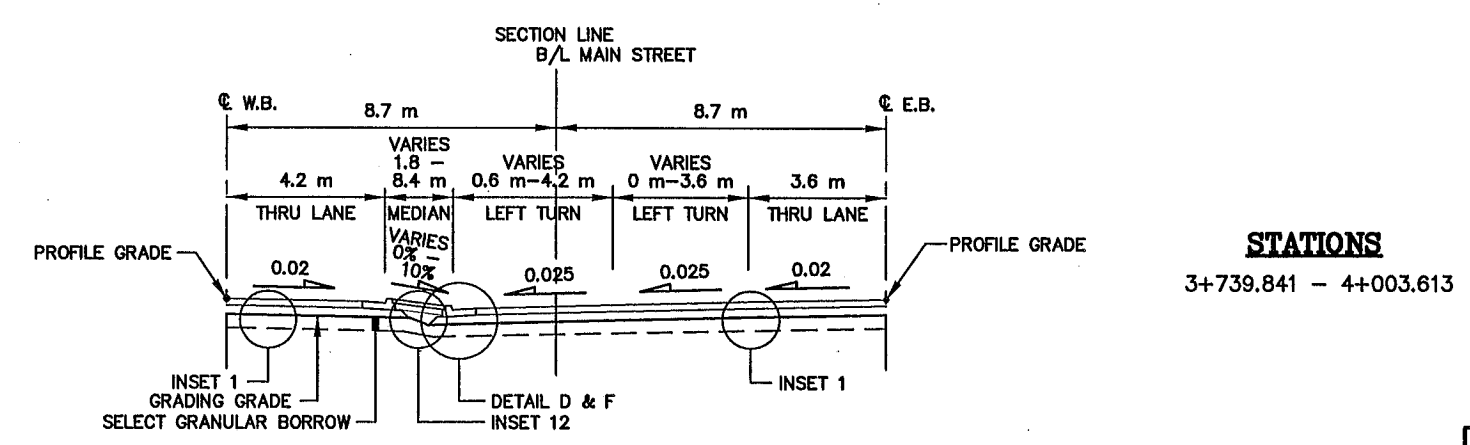
CITY PROJECT 98-20

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	

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



EAST BOUND DOUBLE LEFT TURN LANES



- 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
- 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

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

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

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
CHKD. BY: KPK/PBD	DWG. NAME: 242ETS04	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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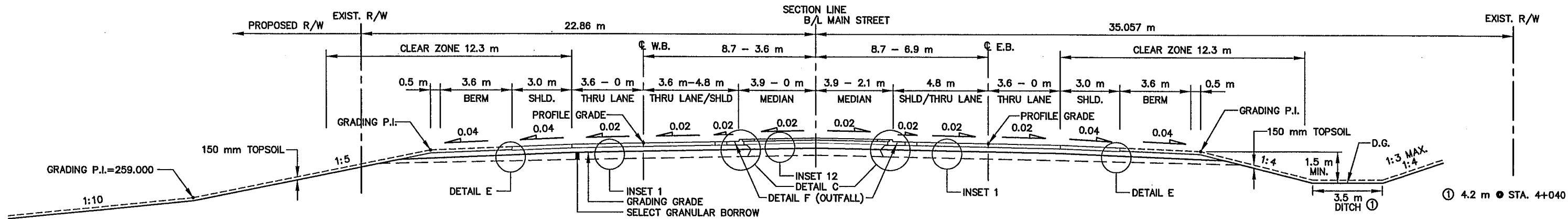
Kevin P. Kullb
DATE: 11/5/99 MINN. REG. NO. 23211

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

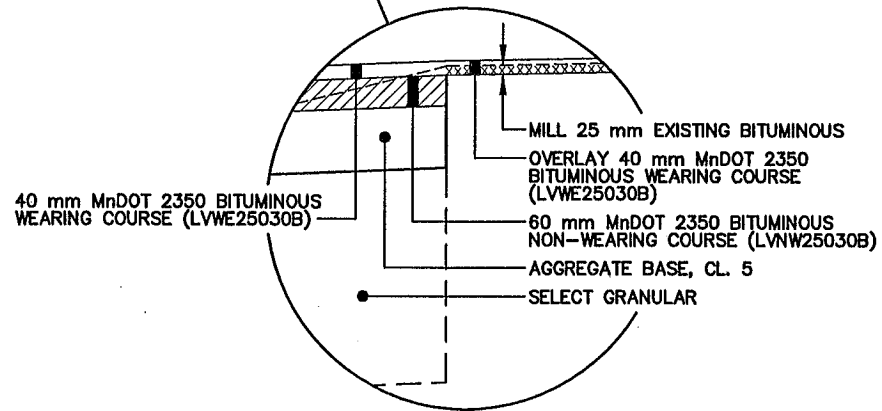
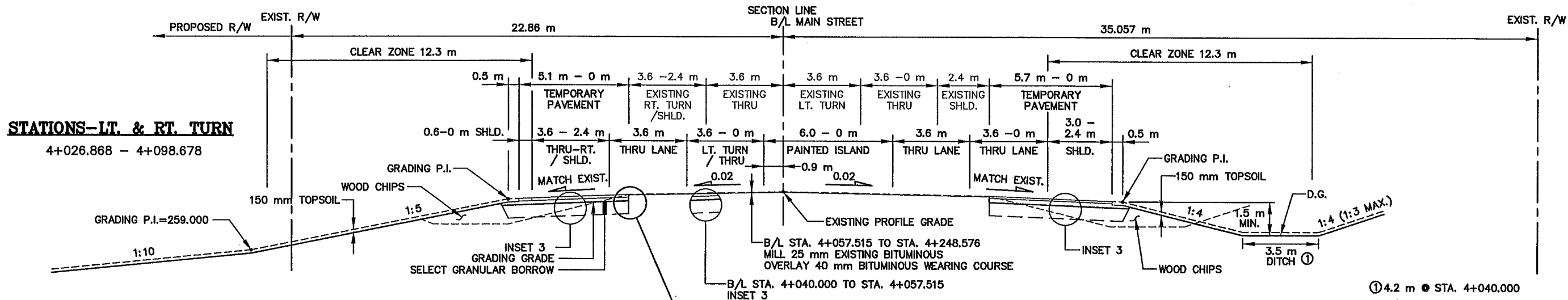
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	32
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 138 - 02	
S.A.P. 114 - 127 - 02	539

**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)**



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

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

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
CHKD. BY: KPK/PBD	DWG. NAME: 242ETS05	
DATE: NOVEMBER 5, 1999		



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

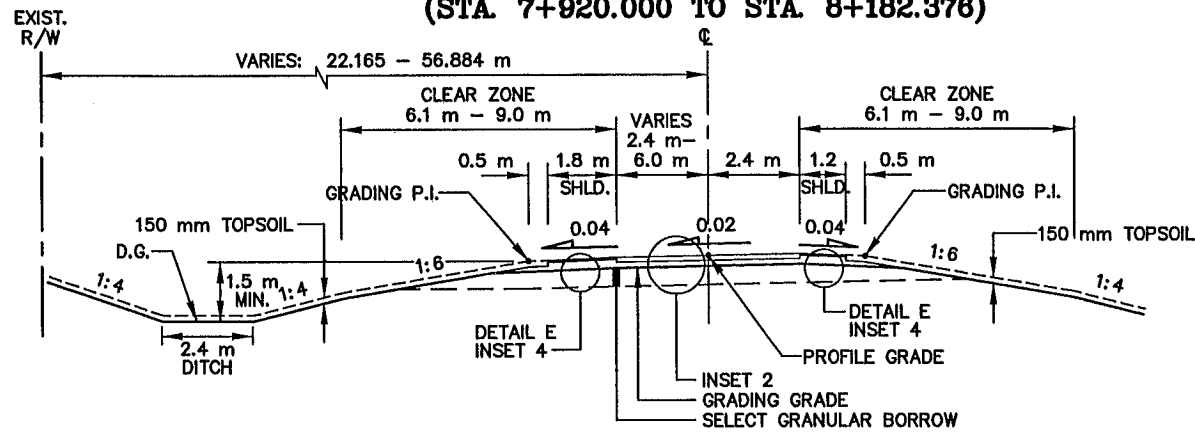
**MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
TYPICAL SECTIONS
COON CREEK BOULEVARD TO END CONSTRUCTION**

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	

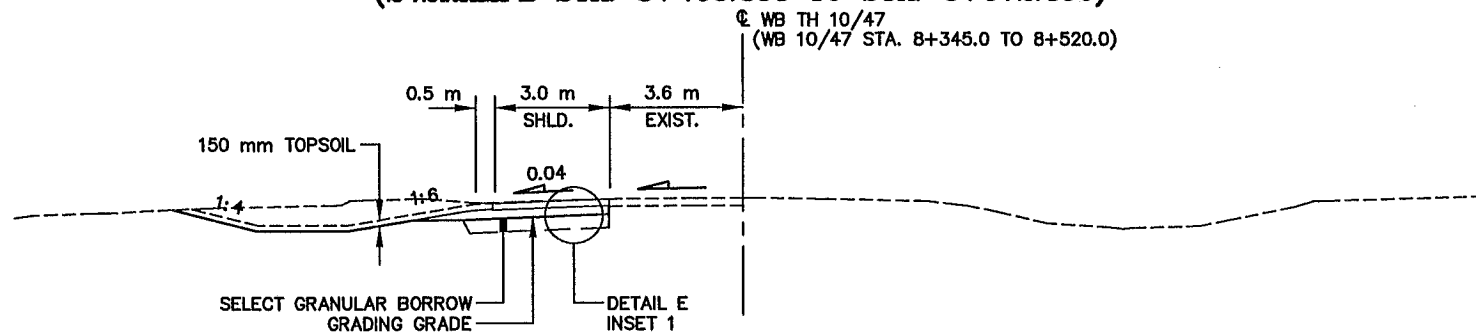
6 OF 16
SHEET NO. 33
539

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

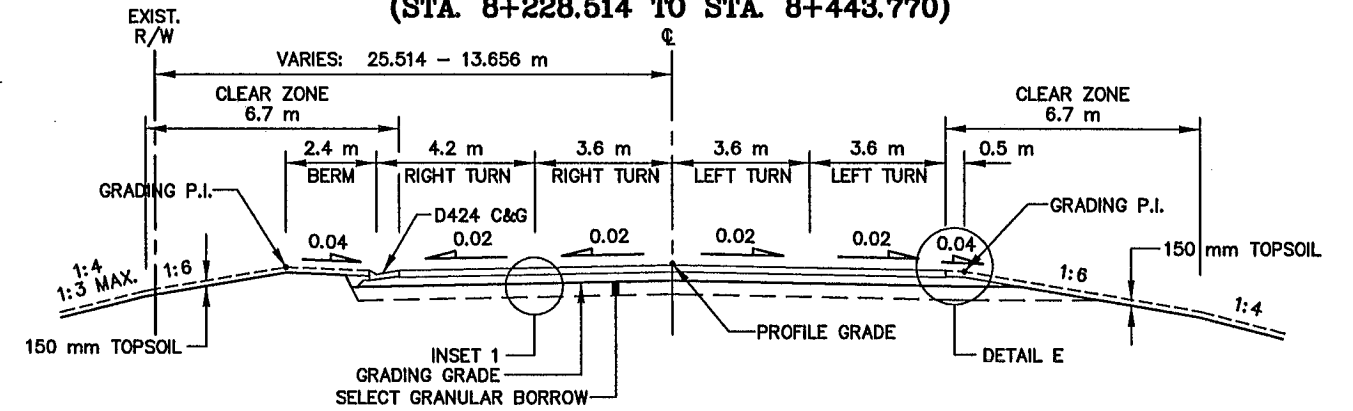


242RAMPA : CLEAR ZONE DISTANCES
 STA. 7+833.769 TO STA. 7+935.765, R=291.063 m, 80 km/hr, FILL: 9.0 m
 STA. 7+935.765 TO STA. 8+098.747, TANGENT, 80 km/hr, FILL: 6.6 m
 STA. 8+098.747 TO STA. 8+155.837, R=100.000 m, 50 km/hr, (USE 6.1 m)
 STA. 8+155.837 TO STA. 8+182.376, TANGENT, 50 km/hr, (USE 6.1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

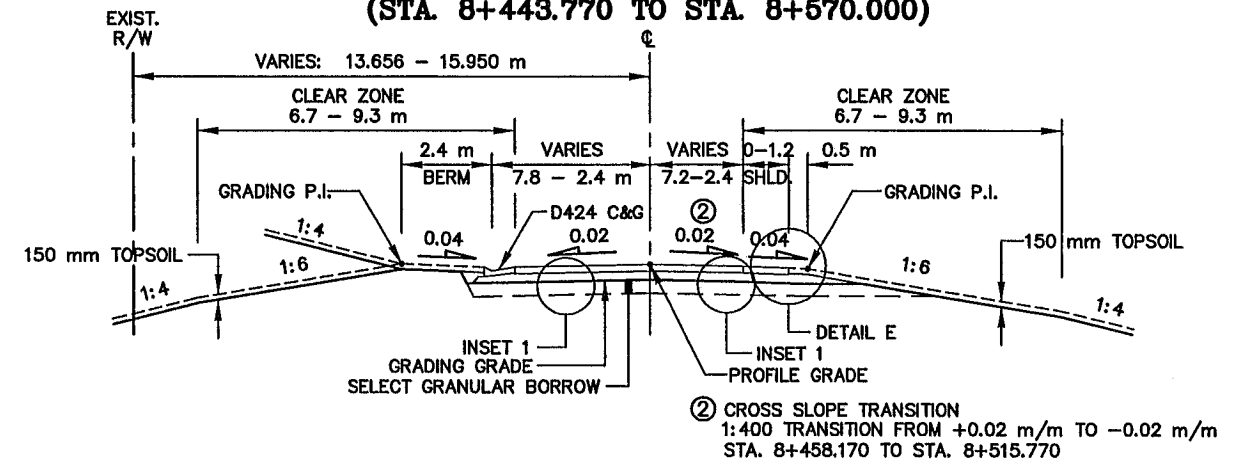
**PROPOSED TYPICAL SECTION WB TH 10/47 SHOULDER
(242RAMPB STA. 8+400.353 TO STA. 8+572.396)**



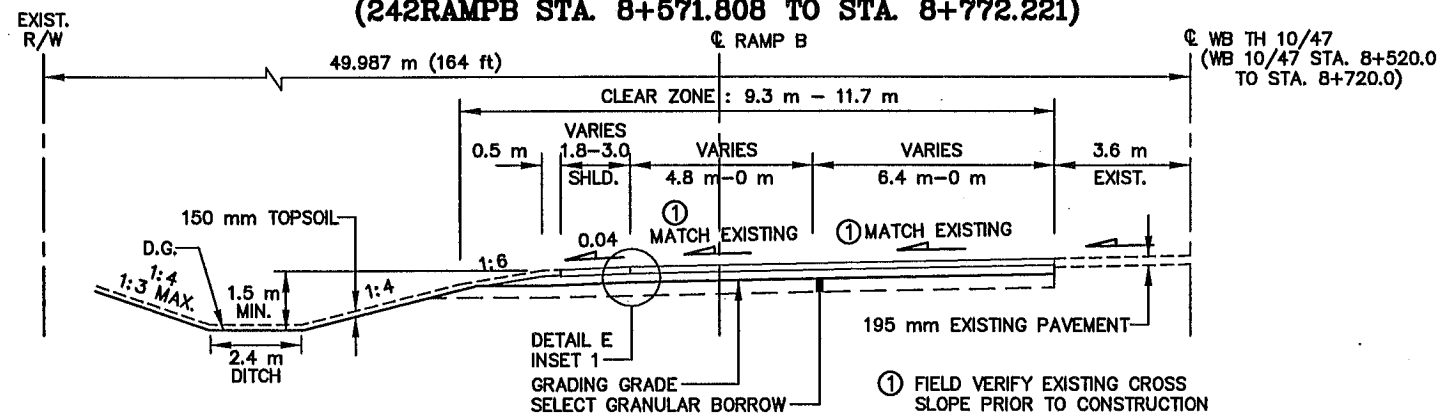
**PROPOSED TYPICAL SECTION RAMP B
(STA. 8+228.514 TO STA. 8+443.770)**



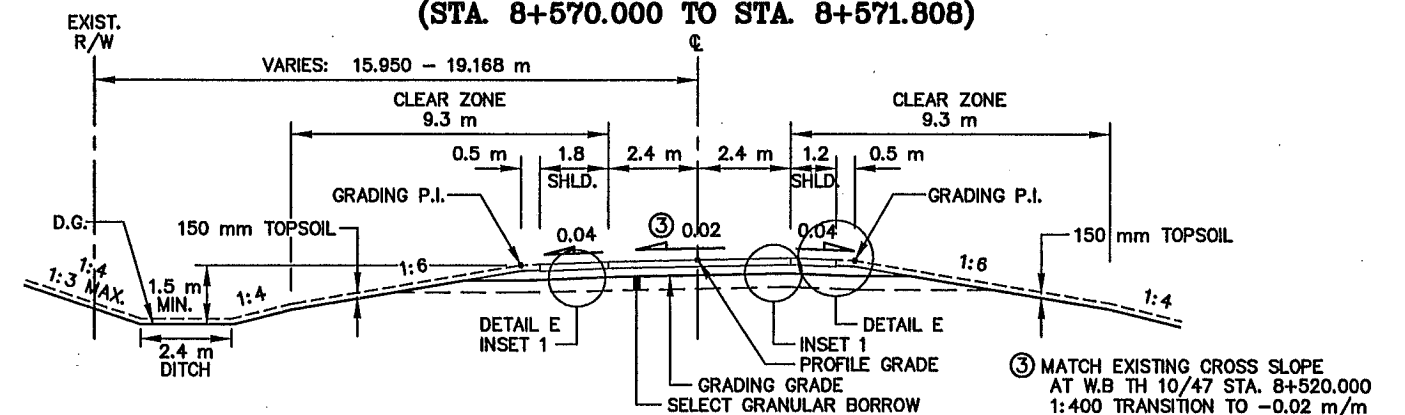
**PROPOSED TYPICAL SECTION RAMP B
(STA. 8+443.770 TO STA. 8+570.000)**



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



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



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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PLOT DATE: Aug 23, 2004 8:55am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TP\242ets.wg

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/PBD	DWG. NAME: 242ETS08	DATE: NOVEMBER 5, 1999

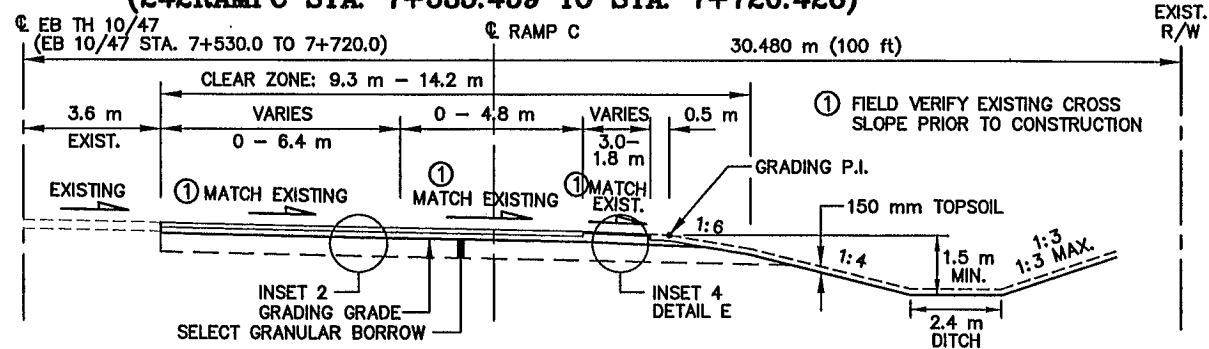


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 SPECIFICATION OR REPORT WAS PREPARED BY ME
 OR UNDER MY DIRECT SUPERVISION AND THAT I AM
 A DULY REGISTERED PROFESSIONAL ENGINEER UNDER
 THE STATE OF MINN. STATUTES SECTION 326.02 TO
 326.16
Kevin P. Kiel
 DATE: 11/5/99 MINN. REG. NO. 23211

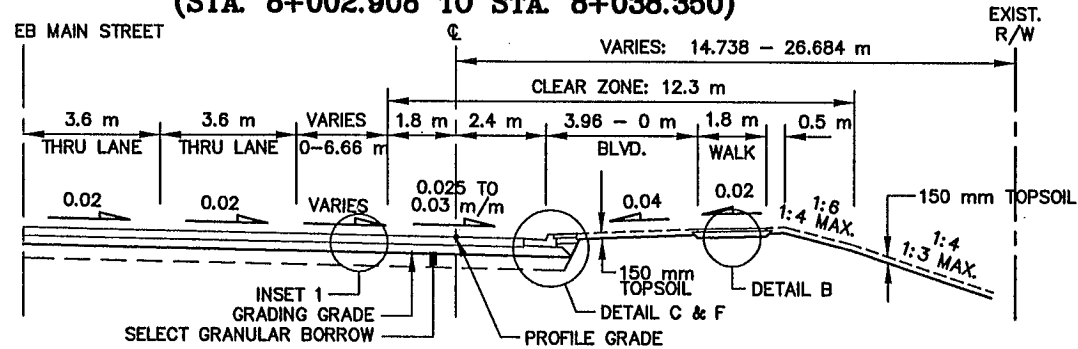
**MAIN STREET/T.H. 242 RECONSTRUCTION
 242RAMPA, RAMP B ACCESS, 242RAMPB**
 TYPICAL SECTIONS
 RAMP A, RAMP B ACCESS, RAMP B
 CITY PROJECT 98-20

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	

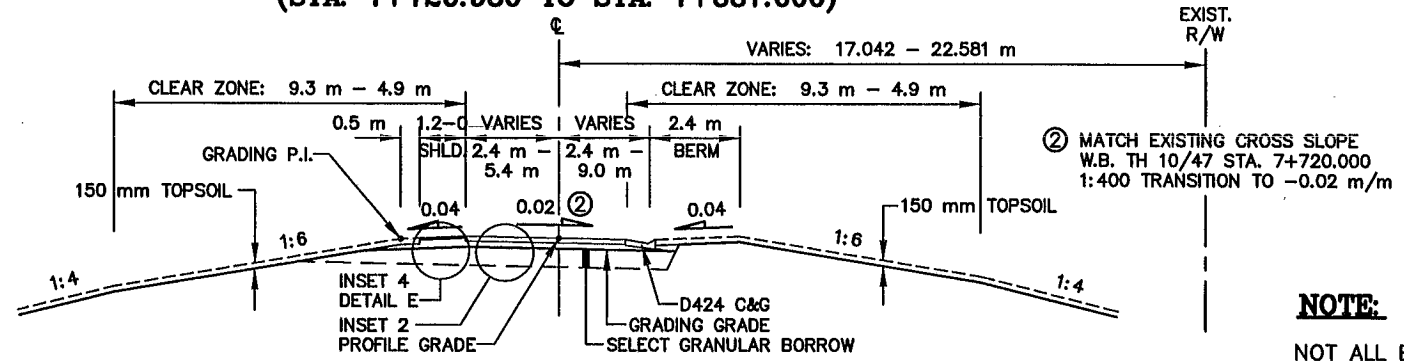
**PROPOSED TYPICAL SECTION RAMP C ACCESS AREA
(242RAMPC STA. 7+535.459 TO STA. 7+720.426)**



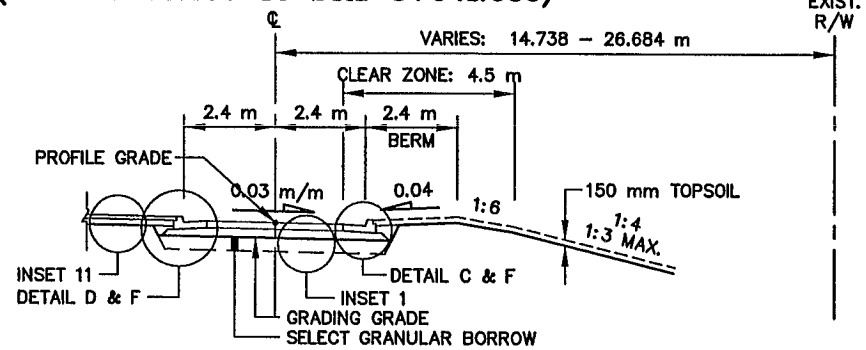
**PROPOSED TYPICAL SECTION LEG D1
(STA. 8+002.908 TO STA. 8+038.350)**



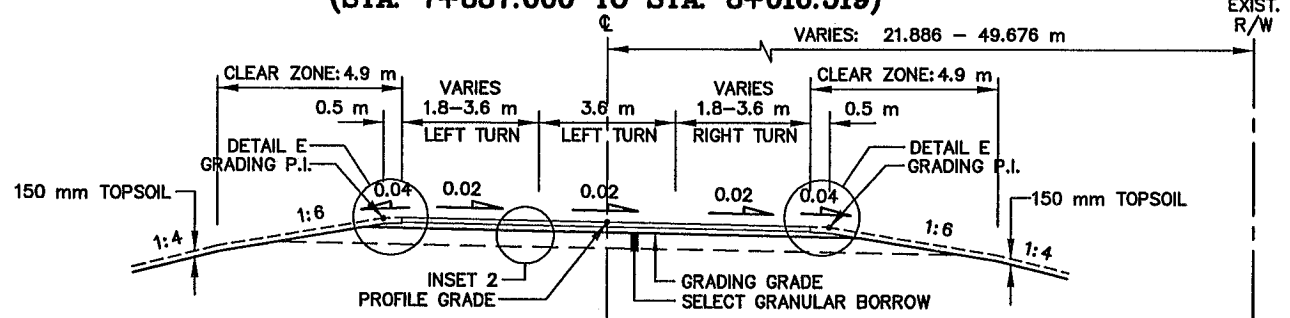
**PROPOSED TYPICAL SECTION RAMP C
(STA. 7+720.980 TO STA. 7+887.000)**



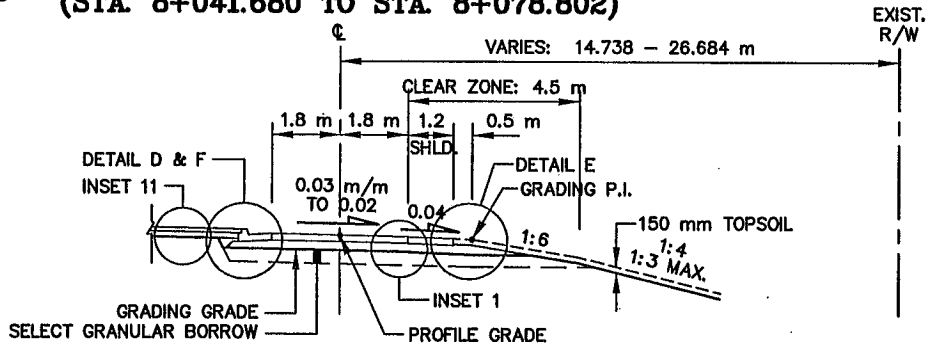
**PROPOSED TYPICAL SECTION LEG D1
(STA. 8+038.350 TO STA. 8+041.680)**



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

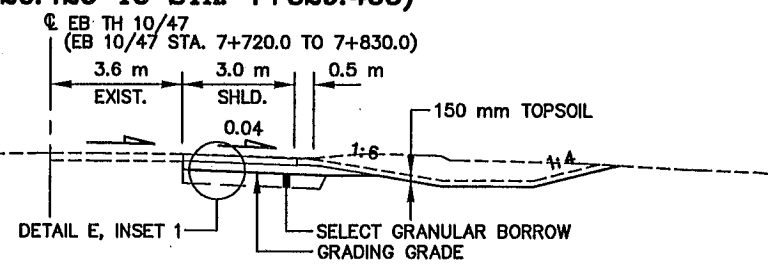


**PROPOSED TYPICAL SECTION LEG D1
(STA. 8+041.680 TO STA. 8+078.802)**

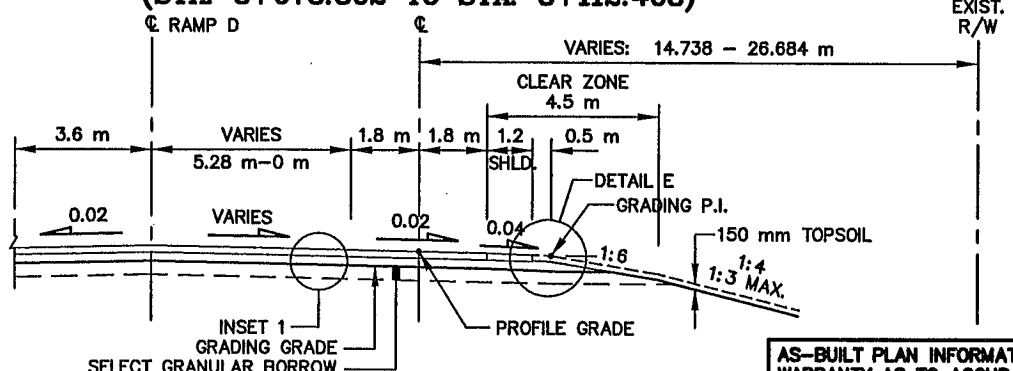


RAMP C ACCESS AND 242RAMPC : CLEAR ZONE DISTANCES
 STA. 7+530.000 TO STA. 7+710.879 (EB 10/47), R=1164.253, 110 km/hr, FILL : 14.2 m, CUT : 11.0 m
 STA. 7+710.879 TO STA. 7+720.000 (EB 10/47), TANGENT, 110 km/hr, FILL : 14.2 m, CUT : 9.3 m
 STA. 7+720.980 TO STA. 7+943.919, TANGENT, 90 km/hr, FILL : 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+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)

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NOTE:
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PLOT DATE: Aug 23, 2004 8:54am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242ets09.dwg

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/PBD	DWG. NAME: 242ETS09	
DATE: NOVEMBER 5, 1999		



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



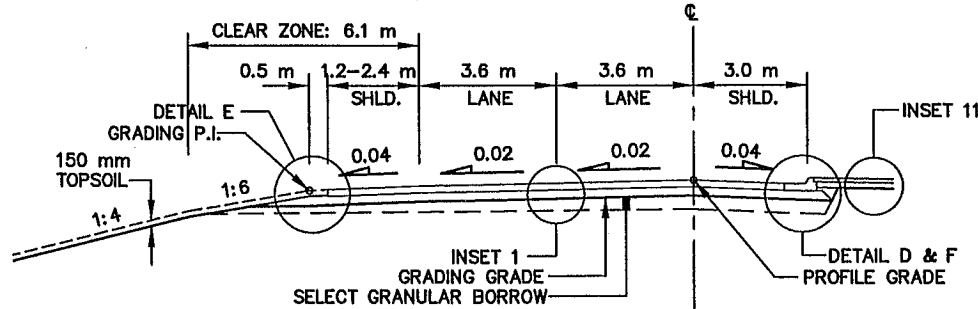
THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

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. Kullb
 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)	SHEET NO.
S.A.P. 02 - 614 - 19	35
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

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

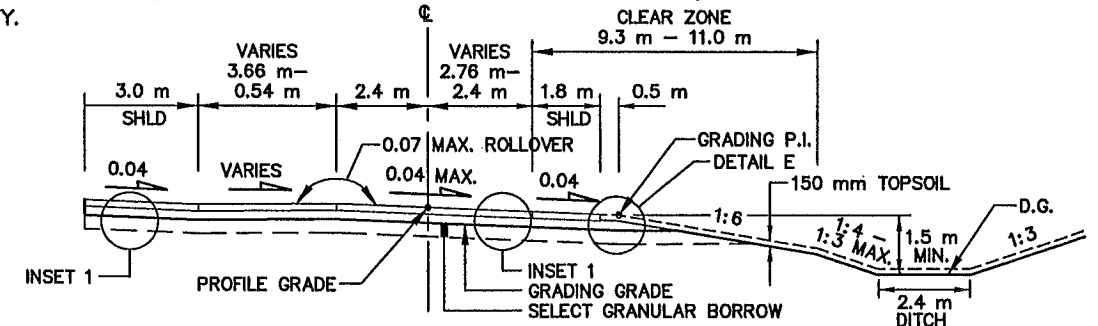


NOTE:

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

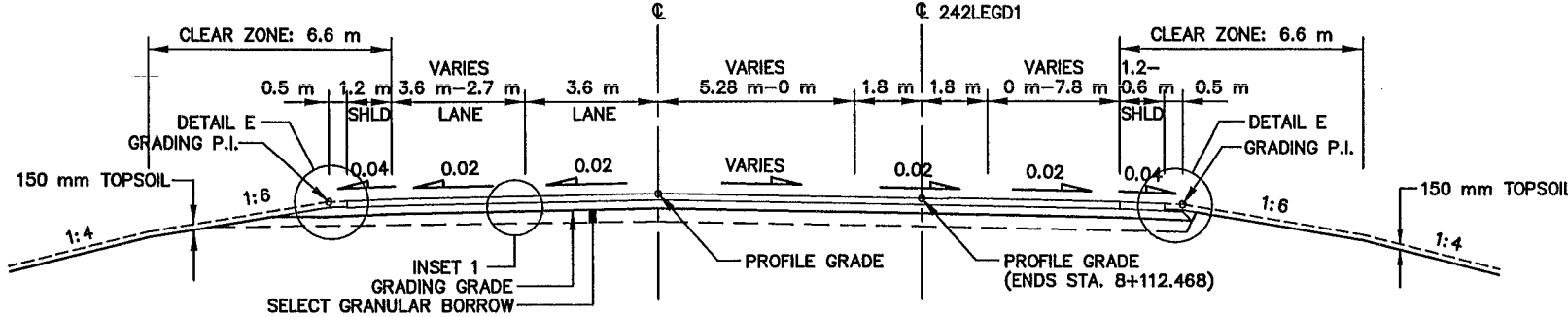
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**PROPOSED TYPICAL SECTION RAMP D
RAMP WITH SUPERELEVATION
(STA. 8+636.626 TO STA. 8+666.608)**

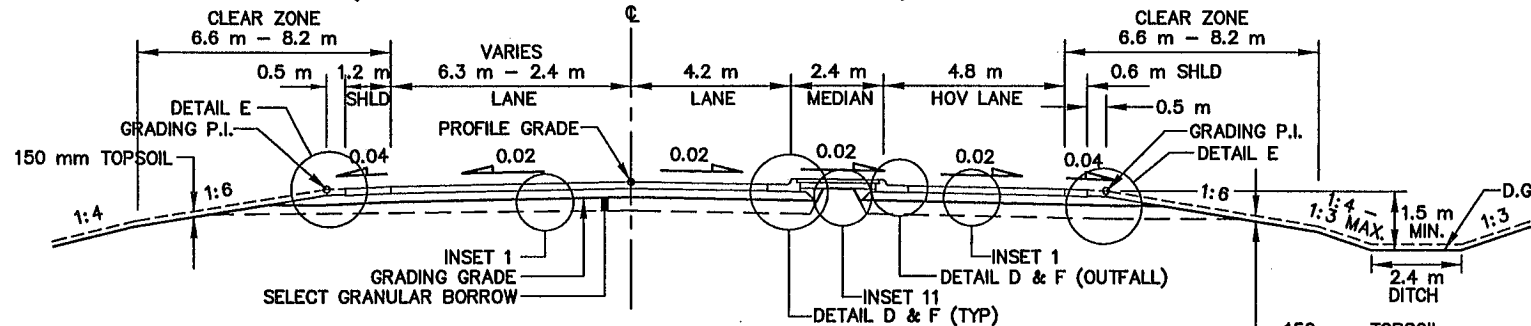


242RAMPD AND RAMP D MERGE AREA : CLEAR ZONE DISTANCES
 STA. 8+048.480 TO STA. 8+112.468, R=100.000 m, 50 km/hr, (USE 6.1 m)
 STA. 8+112.468 TO STA. 8+221.177, TANGENT, 80 km/hr, 6.6 m
 STA. 8+221.177 TO STA. 8+347.182, R=435.000 m, 80 km/hr, 8.2 m
 STA. 8+347.182 TO STA. 8+562.358, TANGENT, 80 km/hr, 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

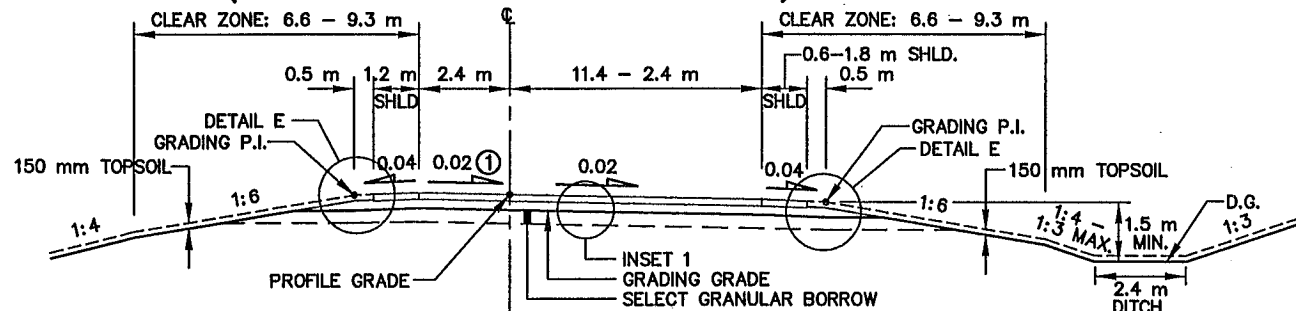
**PROPOSED TYPICAL SECTION RAMP D
(STA. 8+080.502 TO STA. 8+167.500)**



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

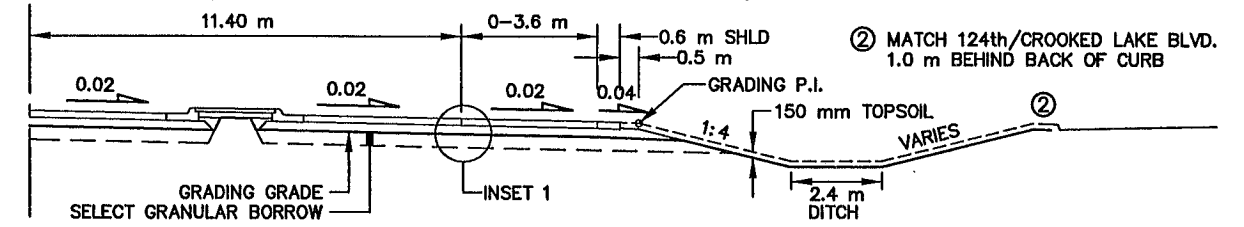


**PROPOSED TYPICAL SECTION RAMP D
(STA. 8+508.449 TO STA. 8+636.626)**

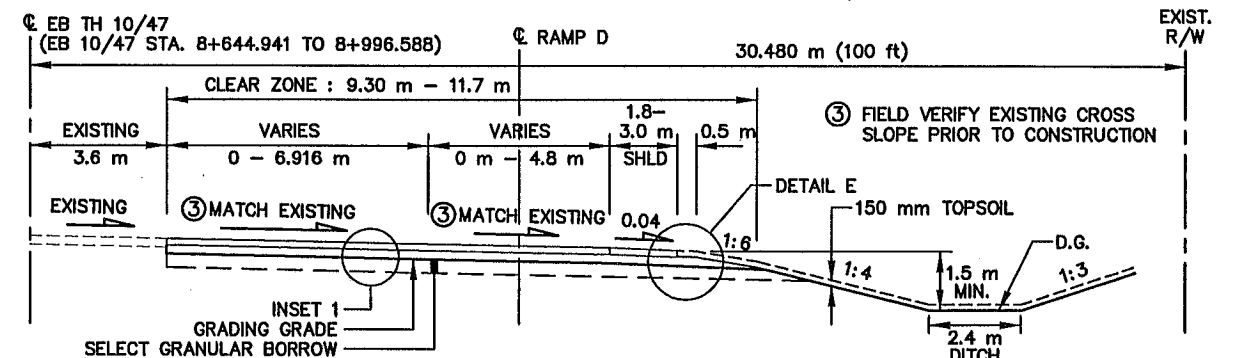


① CROSS SLOPE TRANSITION
 1:200 TRANSITION FROM -0.02 m/m TO +0.02 m/m, STA. 8+508.449 TO STA. 8+527.649

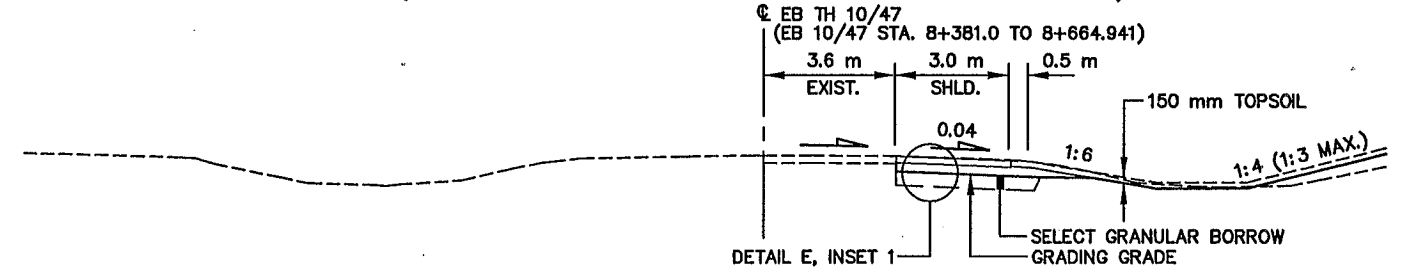
**PROPOSED TYPICAL SECTION FOR RAMP D PATROL PAD
(STA. 8+487.206 TO STA. 8+515.318)**



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



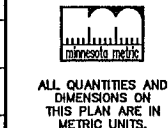
**PROPOSED TYPICAL SECTION EB TH 10/47 SHOULDER
(242RAMPD STA. 8+402.500 TO STA. 8+666.608)**



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

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
CHECKED BY: KPK/PBD	DWG. NAME: 242ETS10	DATE: NOVEMBER 5, 1999



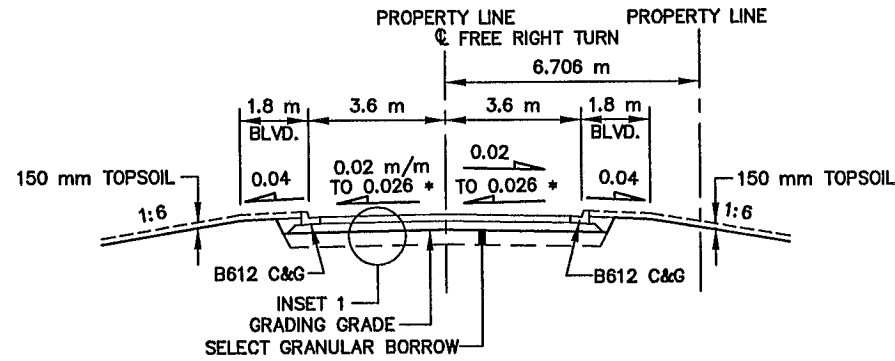
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P. Kiel
 DATE: 11/5/99 MINN. REG. NO. 23211

**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

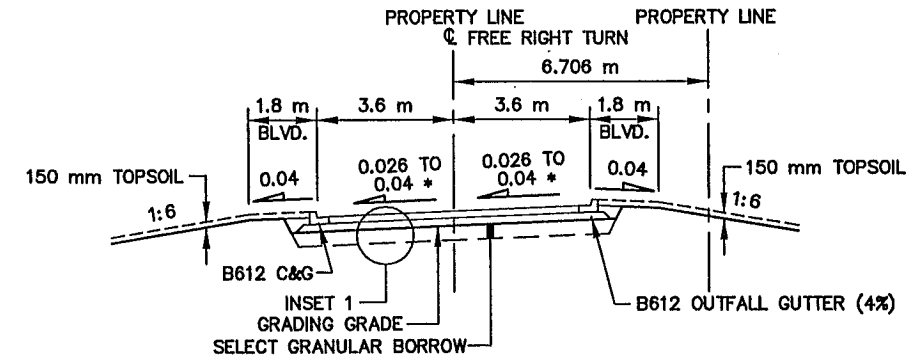
S.P. 0212-40 (T.H.242=242)	S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24	S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19	S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02	

9 OF 16
 SHEET NO. 36
 539

**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)**

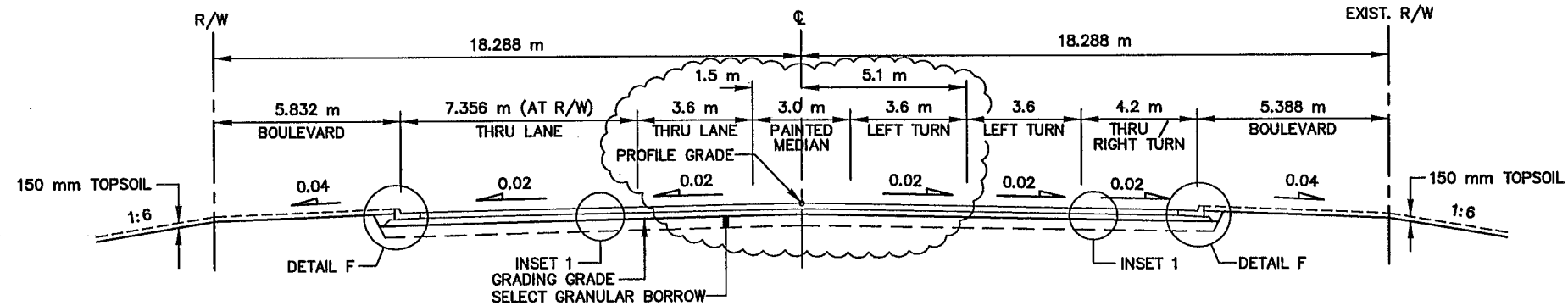


* 1:80 CROSS SLOPE TRANSITION
FROM -0.02 m/m TO +0.04 m/m, RT., STA. 0+000.714 TO STA. 0+017.994
FROM +0.02 m/m TO +0.04 m/m, LT., STA. 0+012.234 TO STA. 0+017.994

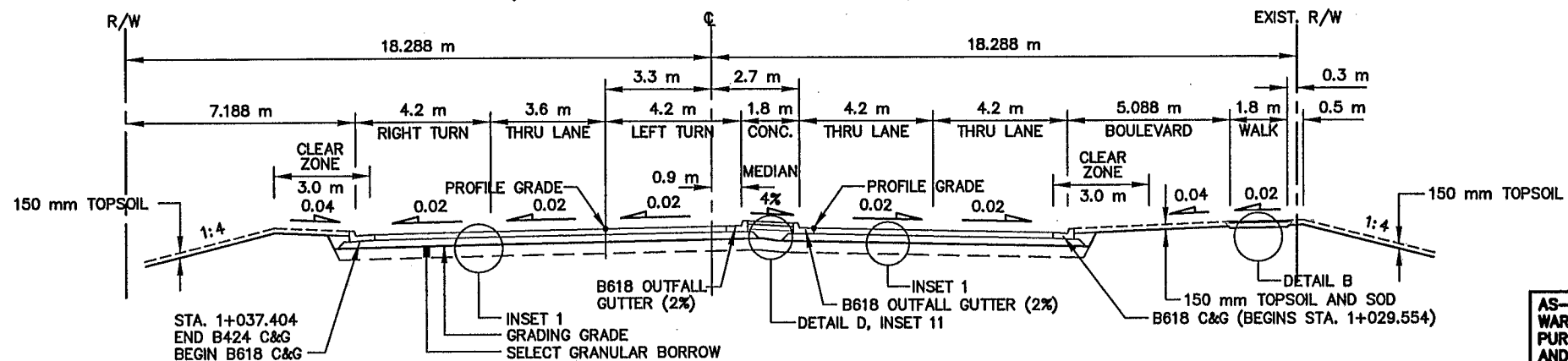
NOTE:

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.

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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCES TO NOTE 6
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.



THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

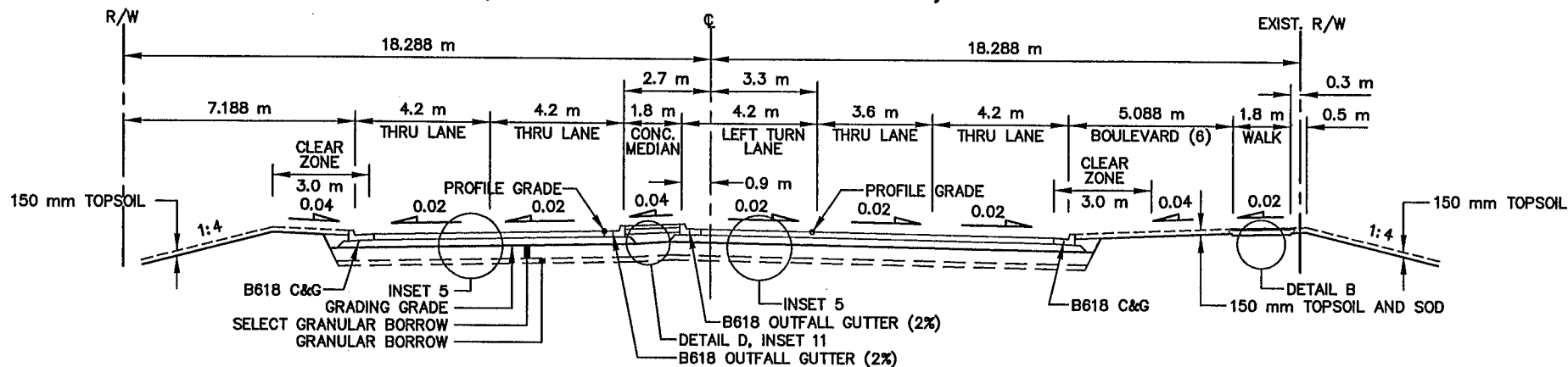
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kullb
DATE: 11/5/99 MINN. REG. NO. 23211

**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

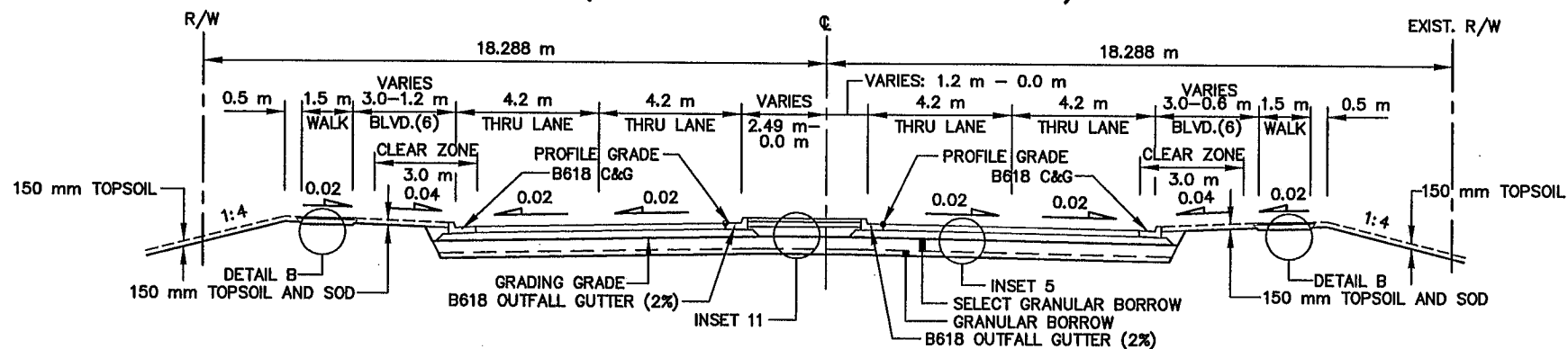
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	37
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

539

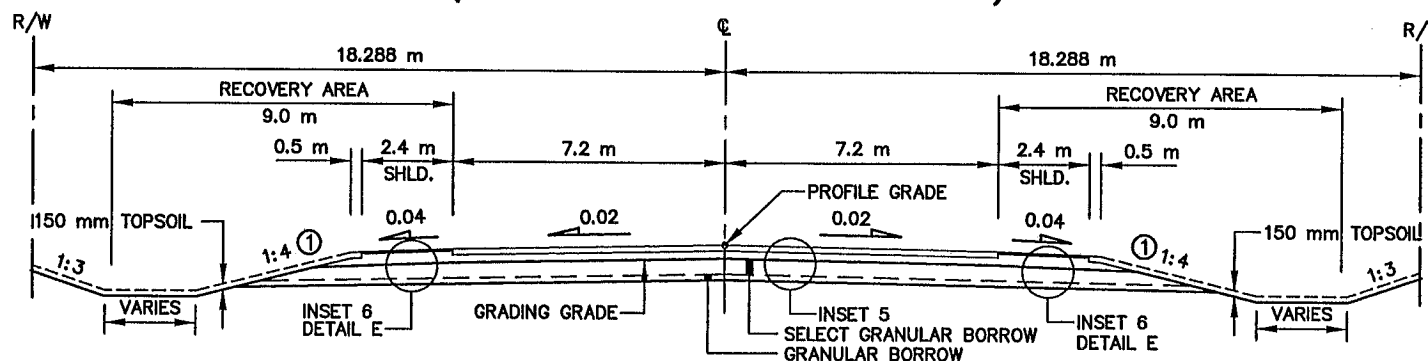
**PROPOSED TYPICAL SECTION COON CREEK BOULEVARD
BEGINNING OF RECONSTRUCTION TO 128th AVENUE NW
(STA. 1+200.000 TO STA. 1+278.301)**



**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)**



NOTE:

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

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

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PLOT DATE: Aug 23, 2004 8:52am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242e.dwg

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/PBD	DWG. NAME: 242ETS11	DATE: NOVEMBER 5, 1999



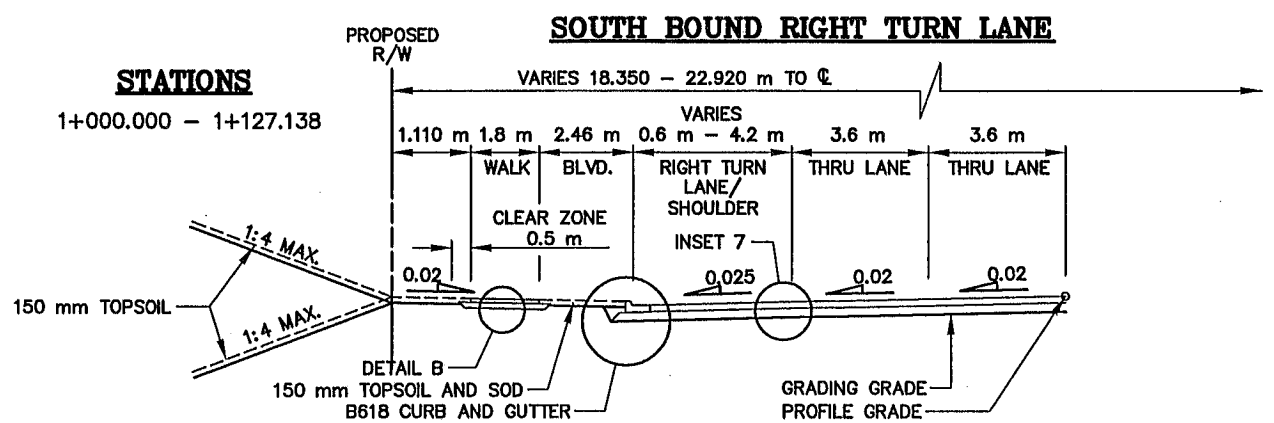
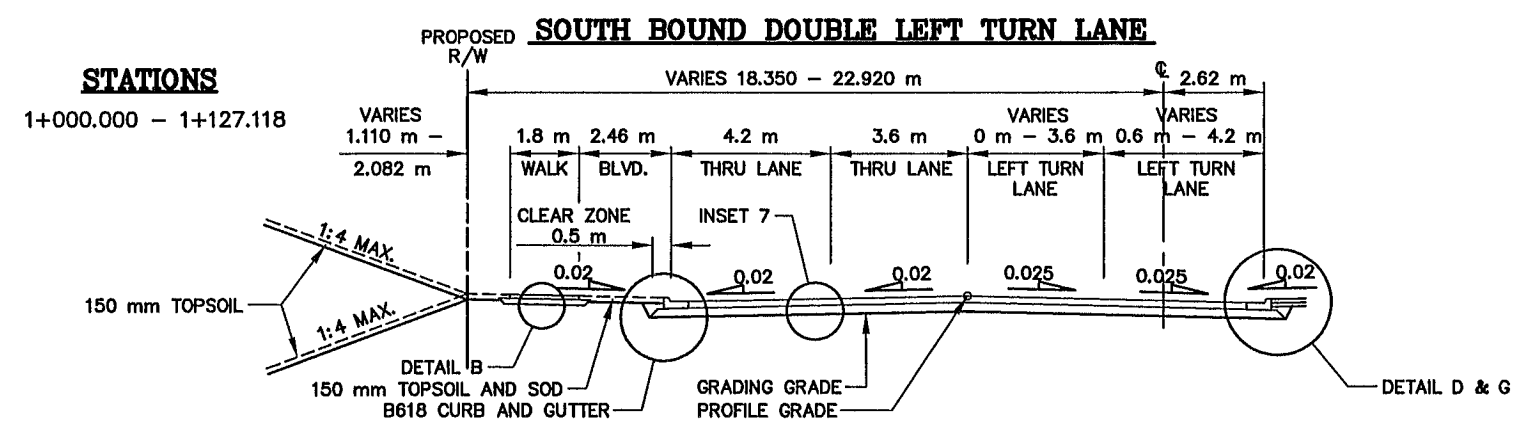
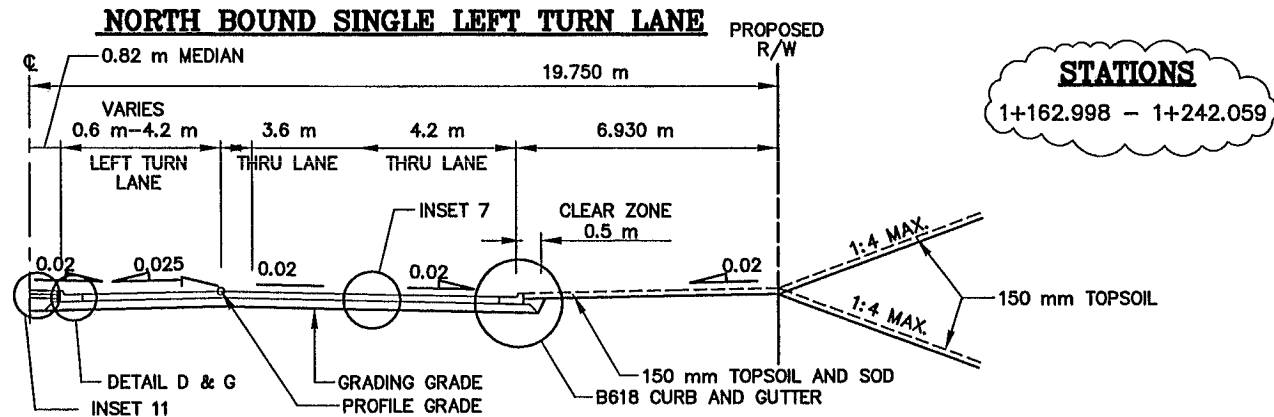
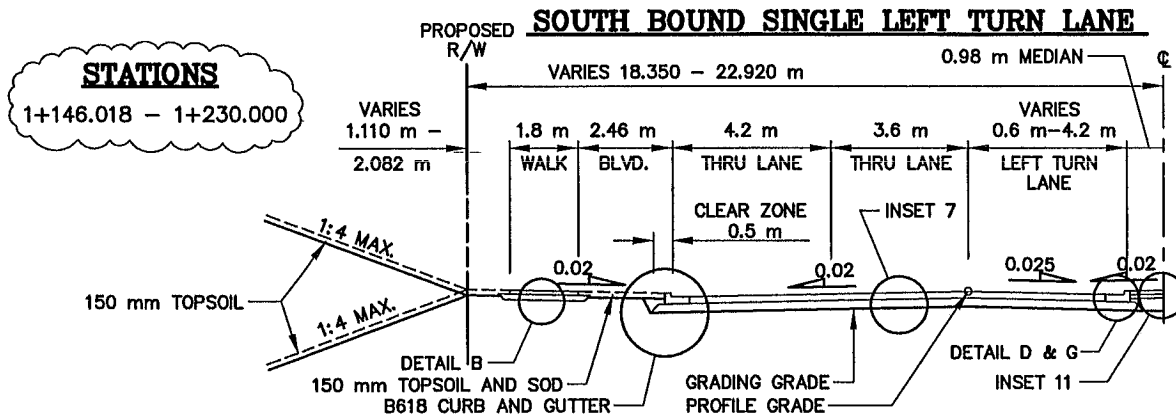
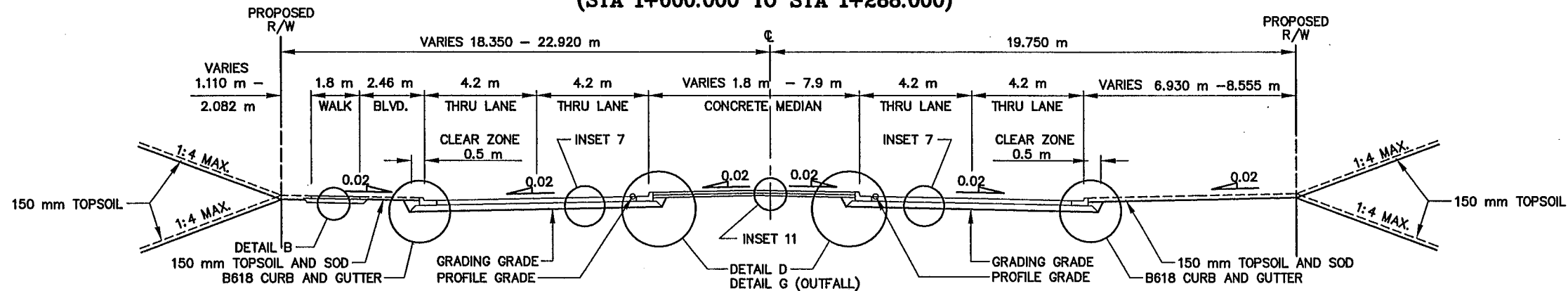
BRW
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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

**MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
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

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



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	J.L.	8/09/00	MOD. REQ. #58: REMOVED 1.8 m WALK 1+000-1+288, RT.
2	J.L.	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
CHKD. BY: KPK/PBD
DWG. NAME: 242-TYP2
DATE: NOVEMBER 5, 1999



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Kevin P. Kiehl
DATE: 11/3/99 MINN. REG. NO. 23211

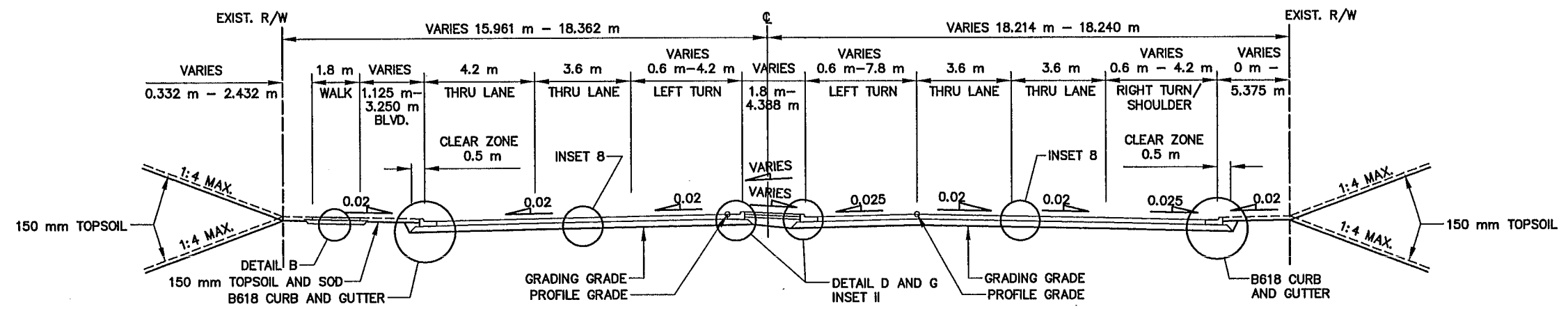
**MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHALE BOULEVARD**
TYPICAL SECTIONS
STATION 1+000.000 TO STATION 1+288.000
CITY PROJECT 98-20

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

12 OF 16
SHEET NO. 39
539

PLOT DATE: Aug 23, 2004 9:02 AM; PLOT FILE NAME: (15.06) R:\33889\33889028\33889028\PLAN_SHT\ENGRING\242-TYP2.dwg

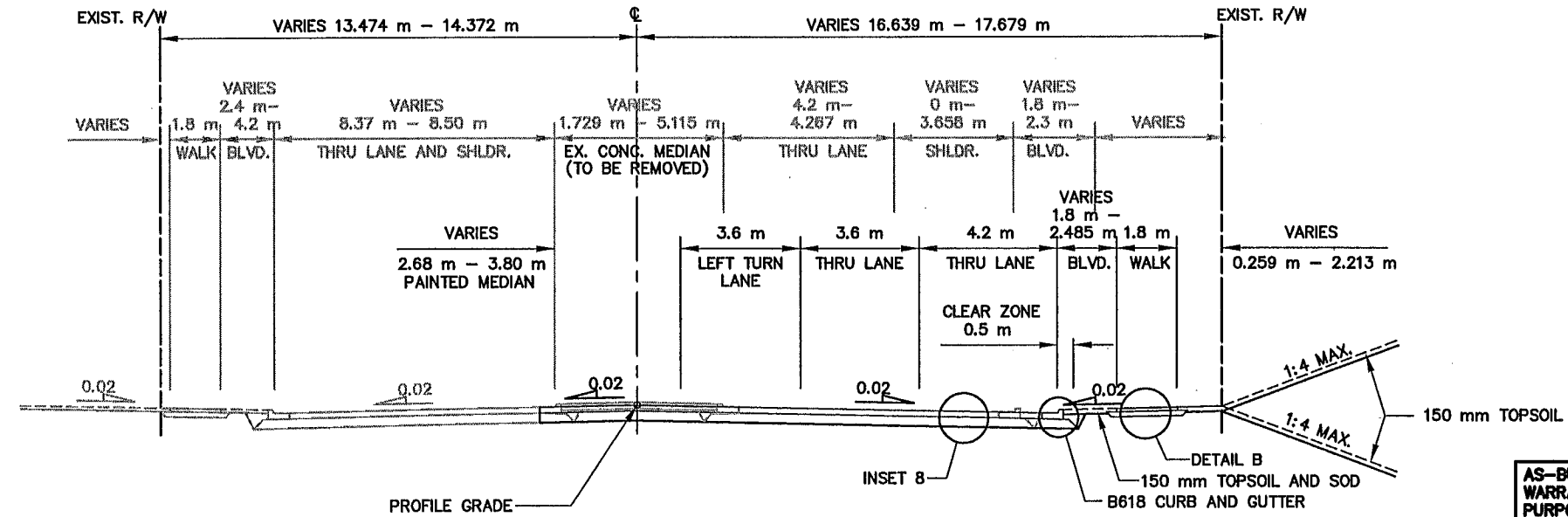
**PROPOSED TYPICAL SECTION NORTHDALÉ BOULEVARD
(STA. 0+835.084 TO STA. 1+000.000)**



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 NORTHDALÉ BOULEVARD
(STA. 0+750.215 TO STA. 0+835.084)**



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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JL	8/01/00	MOD. REQ. #27: REV. TYP. 0+750.215-0+835.084 TO SHOW MEDIAN REMOVED, MODIFIED TYPICAL 0+835.084-1+000.
2	TSR	2/27/04	AS-BUILT DRAWING

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



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Kevin P. Kiehl

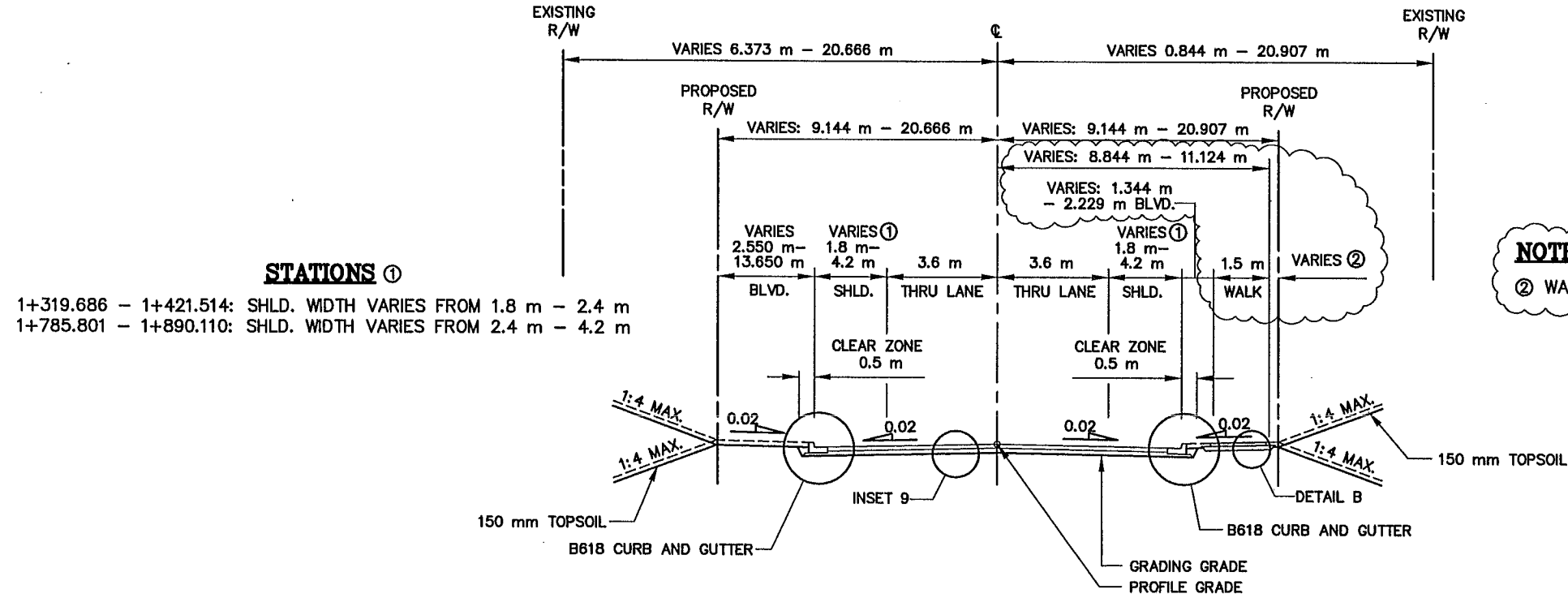
DATE: 11/5/99 MINN. REG. NO. 23211

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

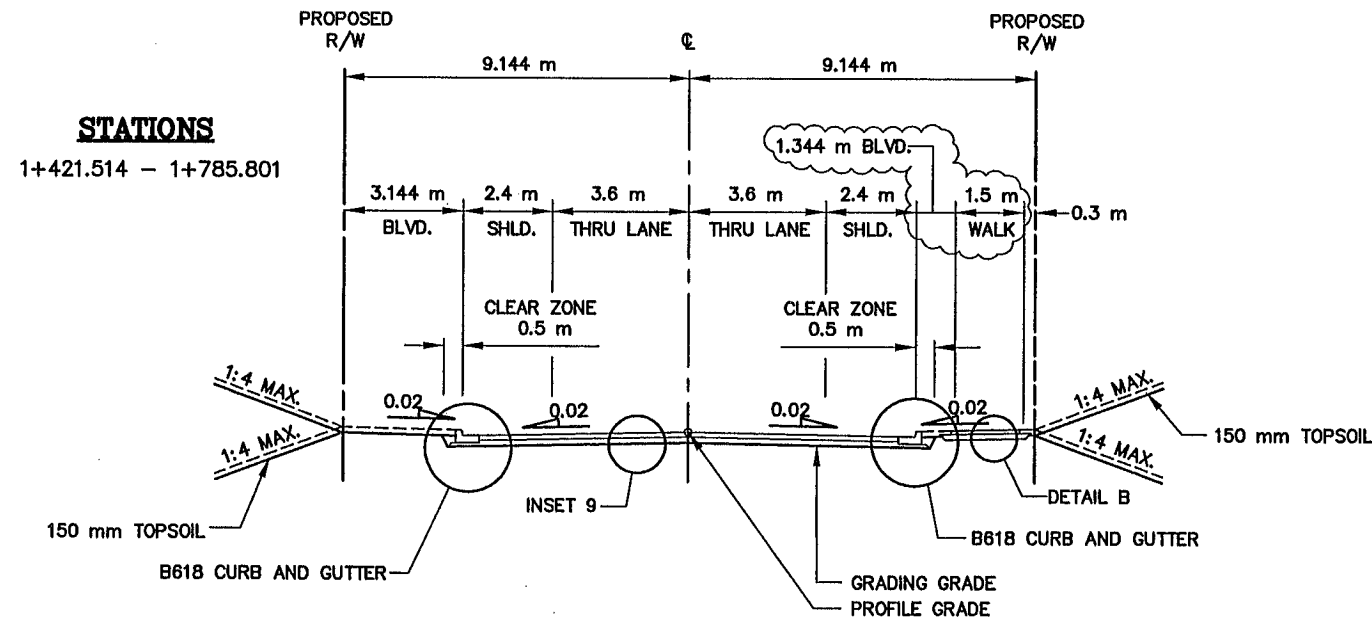
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02-614-19	40
S.A.P. 02-618-24	
S.P. 114-010-11	
S.A.P. 114-020-19	
S.A.P. 114-136-02	
S.A.P. 114-127-02	539

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



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

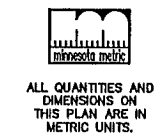


AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

PLOT DATE: Aug 23, 2004 DISK FILE NAME: (15,06) R:\33889\33889028\PLAN_SHT\ENGRING\242-typ4.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJA	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
CHKD. BY: KPK/PBD	DWG. NAME: 242-TYP4	
DATE: NOVEMBER 5, 1999		



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Kevin P. Kiehl

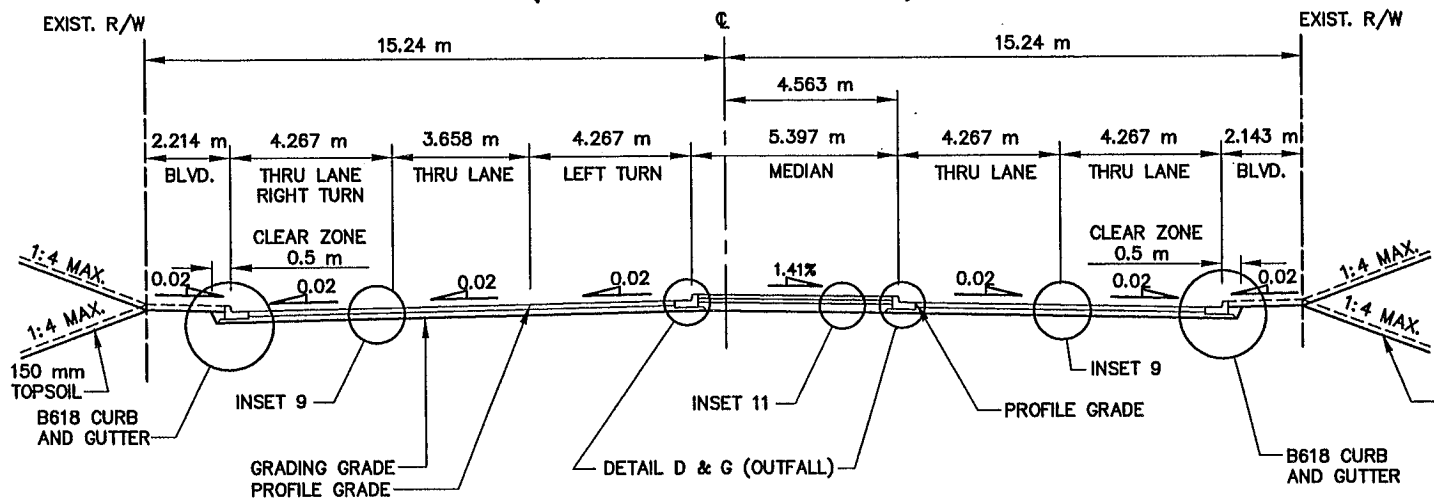
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
124th AVENUE NW and CROOKED LAKE BOULEVARD
 TYPICAL SECTIONS
 CITY PROJECT 98-20

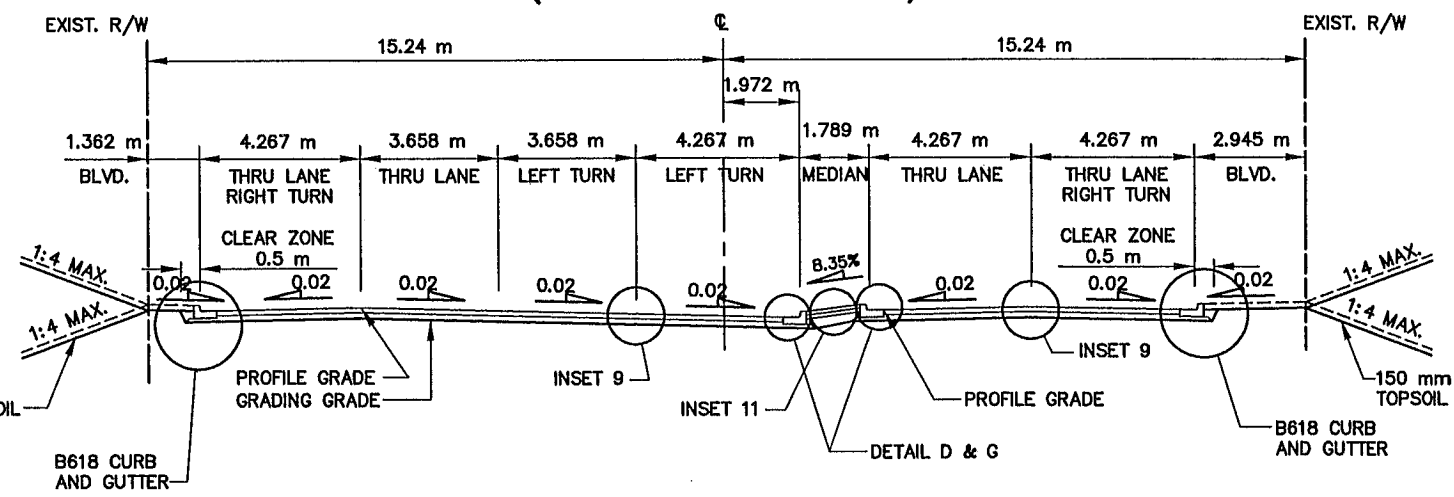
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	41
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	

14 OF 16
 539

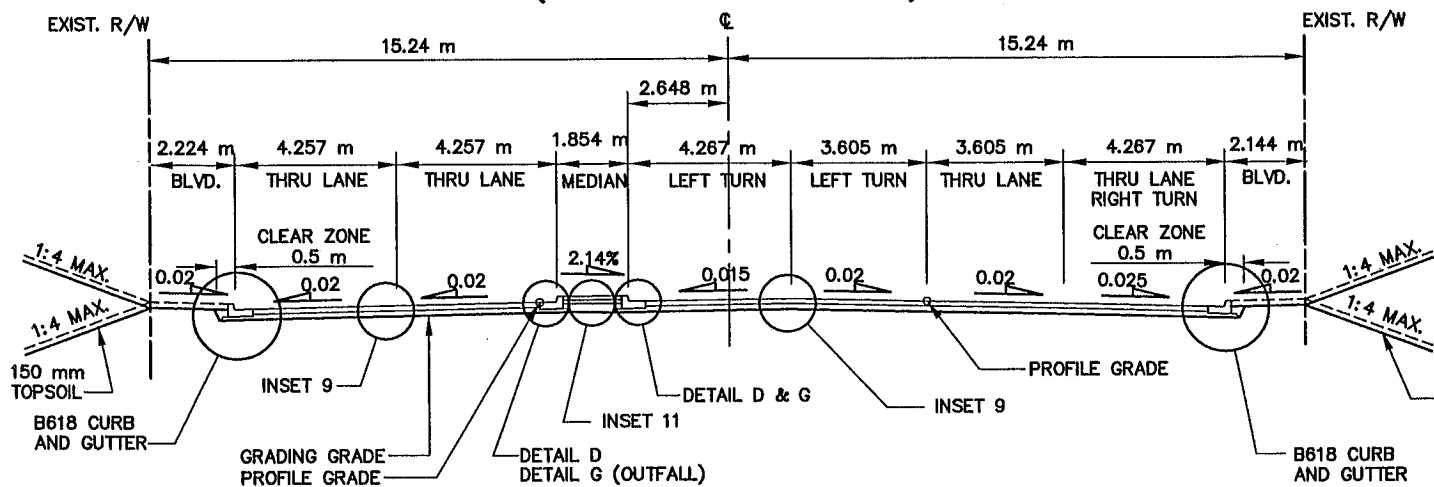
**PROPOSED TYPICAL SECTION - RIVER RAPIDS DRIVE
(NORTH OF MAIN STREET)**



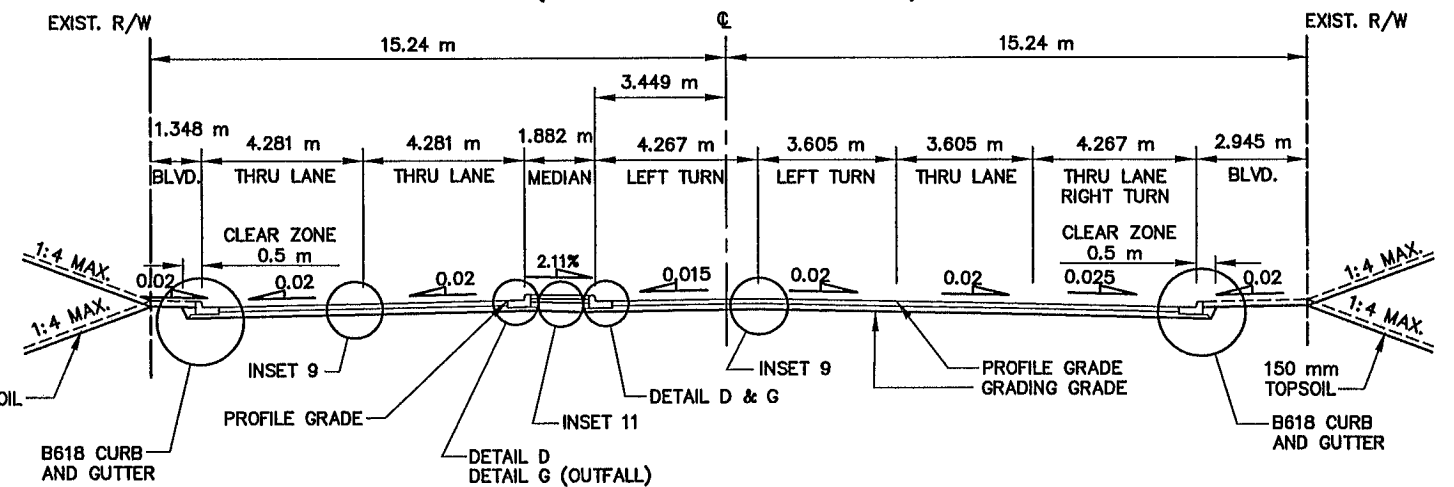
**PROPOSED TYPICAL SECTION - RIVERDALE VILLAGE BOULEVARD
(NORTH OF MAIN STREET)**



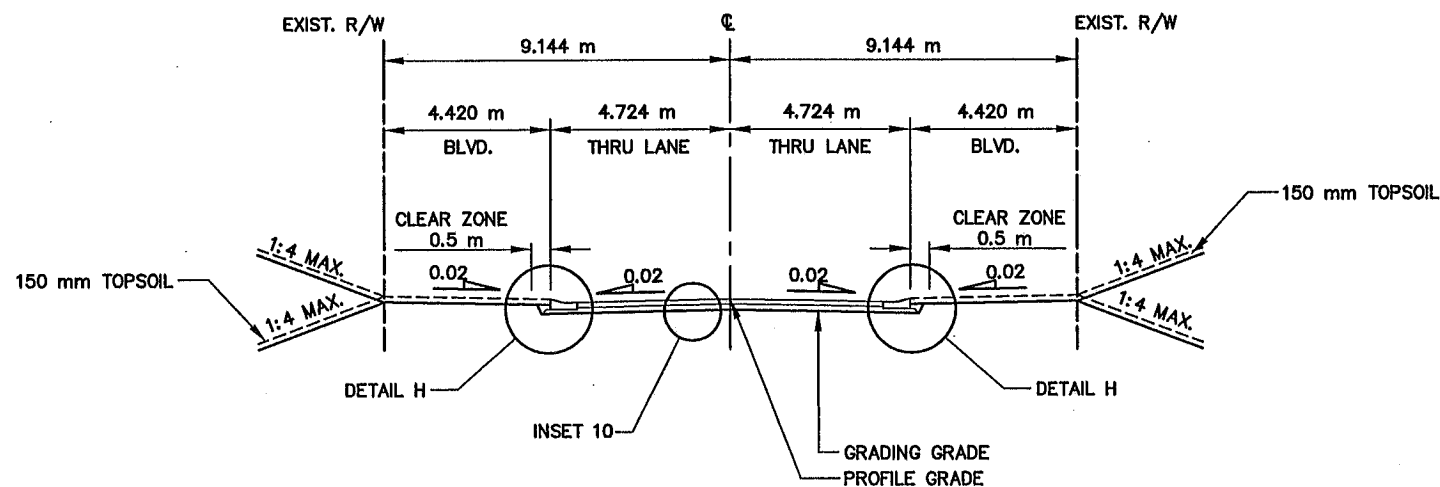
**PROPOSED TYPICAL SECTION - RIVER RAPIDS DRIVE
(SOUTH OF MAIN STREET)**



**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.

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	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.



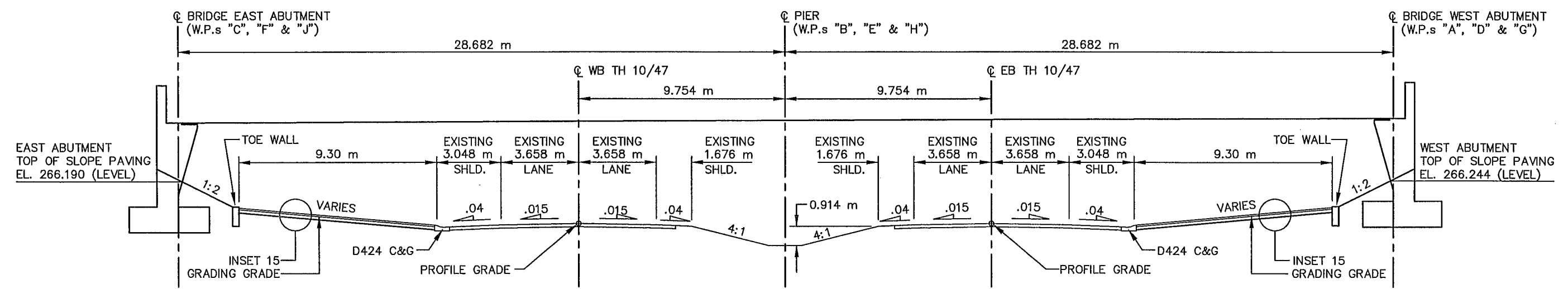
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Hill
DATE: 11/5/99 MINN. REG. NO. 23211

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)	SHEET NO.
S.A.P. 02 - 614 - 19	42
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PLOT DATE: Aug 23, 2004 9:00 AM DISK FILE NAME: (15.08) R:\33889\33889028\33889028\PLAN_SHT\ENGINEERING\242-typ3.dwg

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



PLOT DATE: Aug 23, 2004 8:51am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TYP\242TYP10.dwg

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
CHKD. BY: KPK/PBD	DWG. NAME: 242TYP10	
DATE: AUGUST 4, 2000		



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. Kullb

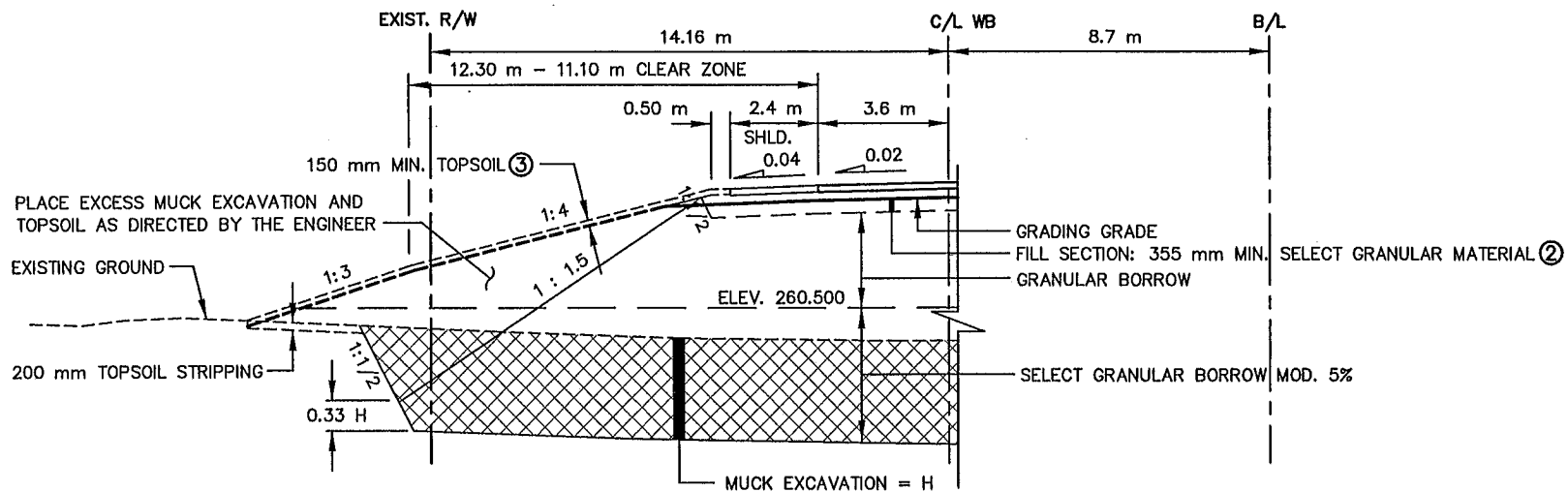
DATE: 8/04/00 MINN. REG. NO. 23211

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)	SHEET NO.
S.A.P. 02 - 614 - 19	42A 539
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

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



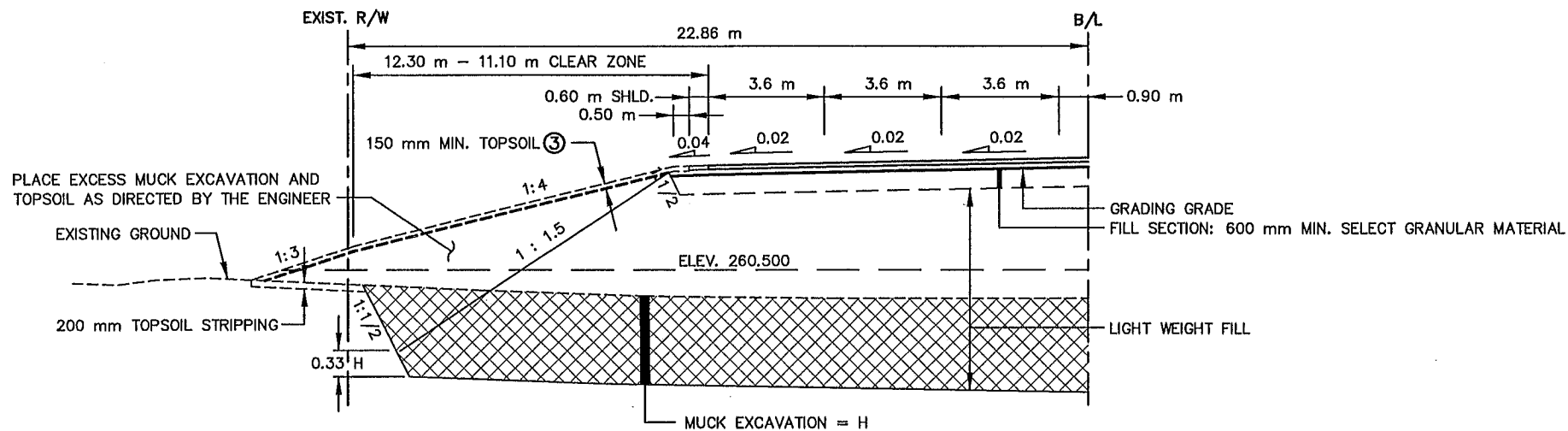
MUCK EXCAVATION NOTES:

- 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.

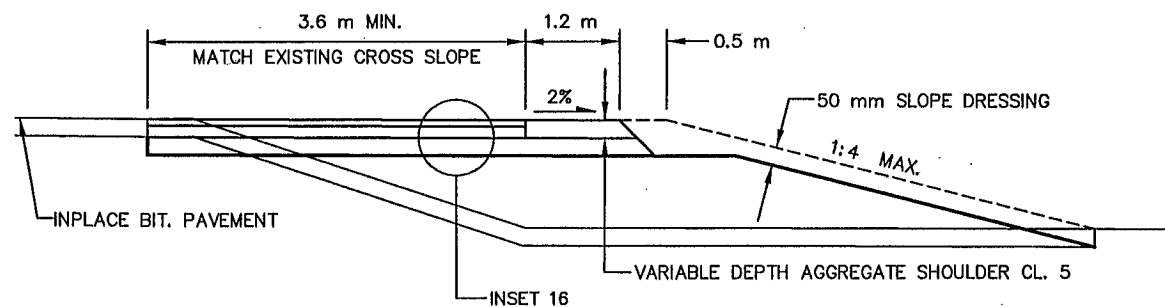
NOTE:

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

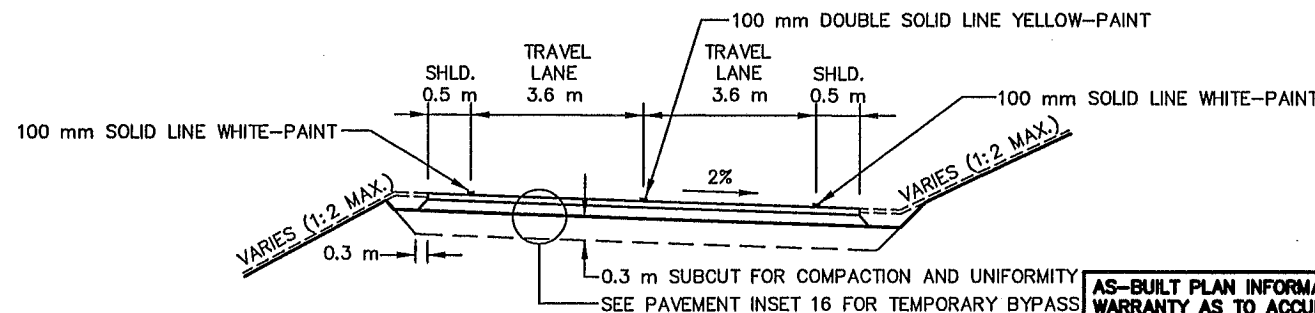
**MUCK EXCAVATION DETAIL
MAIN STREET/TH 242 STA. 4+040.000 TO STA. 4+056.854
(SEE CROSS SECTIONS FOR LOCATION)**



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



**TYPICAL SECTION TH 242 AT COON CREEK BLVD.
TEMPORARY BYPASS 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	ADDED TYPICALS FOR CONSTRUCTION STAGING
2	TSR	2/27/04	AS-BUILT DRAWING

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



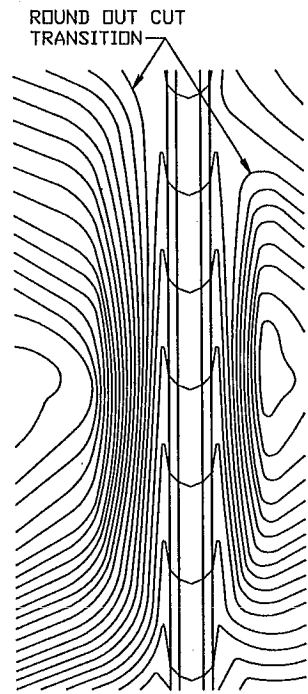
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Bevin P. Kull
DATE: 11/5/99 MINN. REG. NO. 23211

**MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
TYPICAL SECTIONS
TYPICAL FOR MUCK EXCAVATION**
CITY PROJECT 98-20

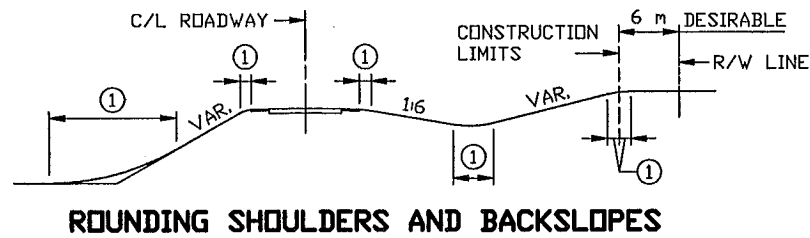
S.P. 0212-40 (T.H.242=242)	S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24	S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19	S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02	

SHEET NO.
43
539

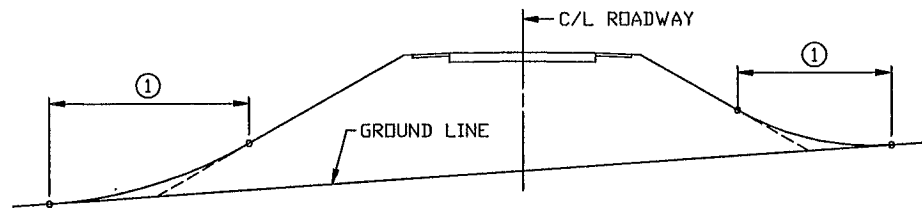
PLOT DATE: Aug 11, 2004 12:41pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH...RING\sm404190.dwg FILE NAME: SM404190.DWG



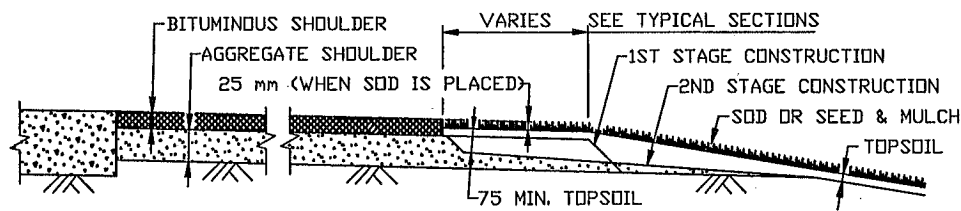
CONTOURING ROAD CUTS



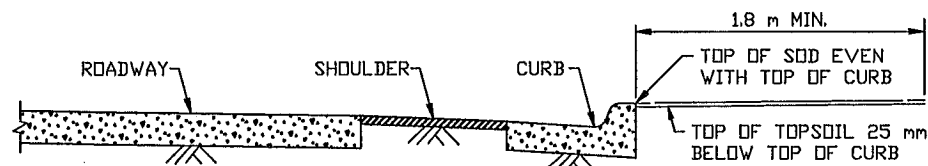
ROUNDING SHOULDERS AND BACKSLOPES



SHAPING FOR DRAINAGE ALONG THE TOE OF FILL SLOPES



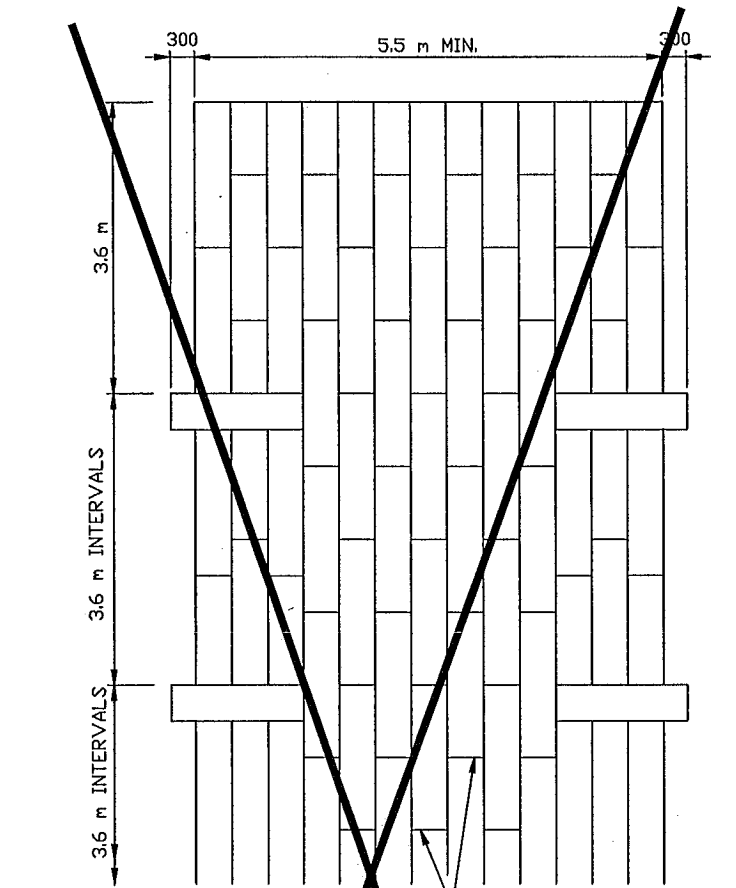
SHAPING AND TOPSOILING INSLOPES



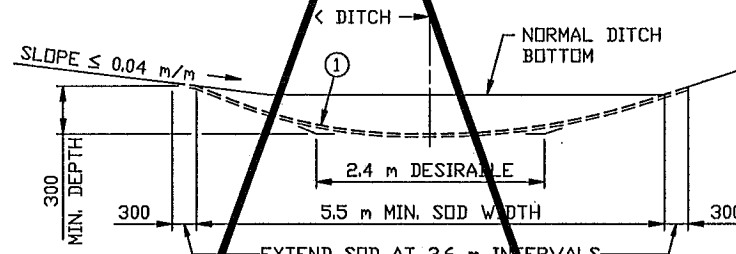
SHAPING ADJACENT TO CURBS WHEN SOD IS PLACED

NOTES:
 SEE SPEC. 2575.3 FOR ADDITIONAL INFORMATION.
 ① FOR ROUNDING, SEE ROAD DESIGN MANUAL.
 ② CONSTRUCT TAPER AS DIRECTED BY THE ENGINEER.

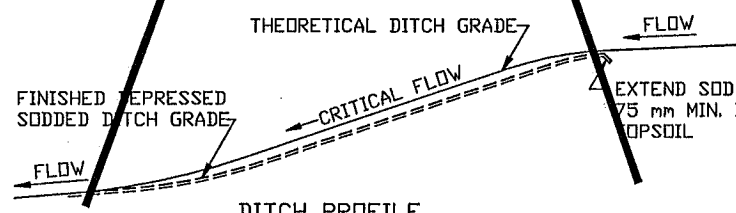
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



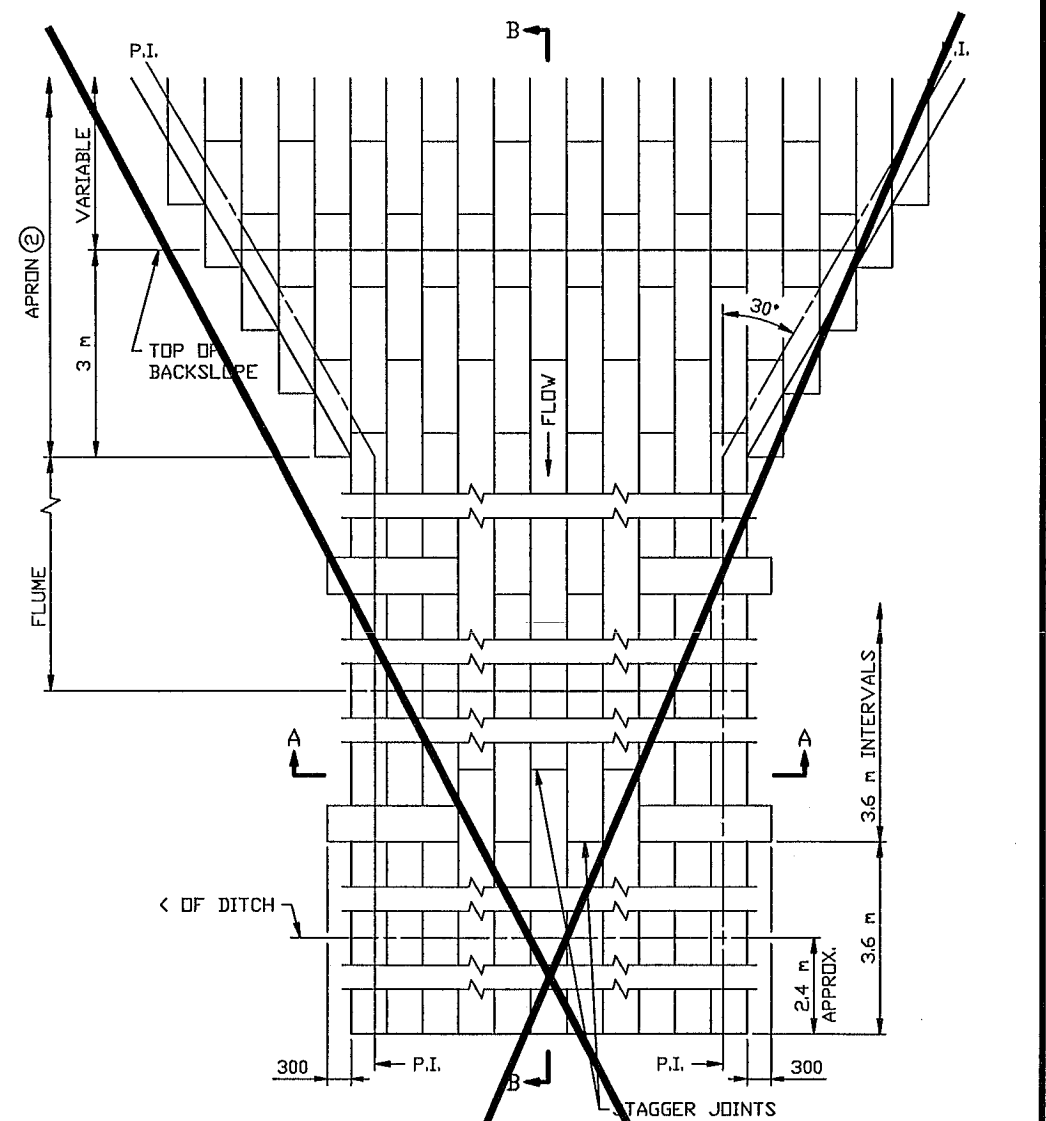
PLAN VIEW



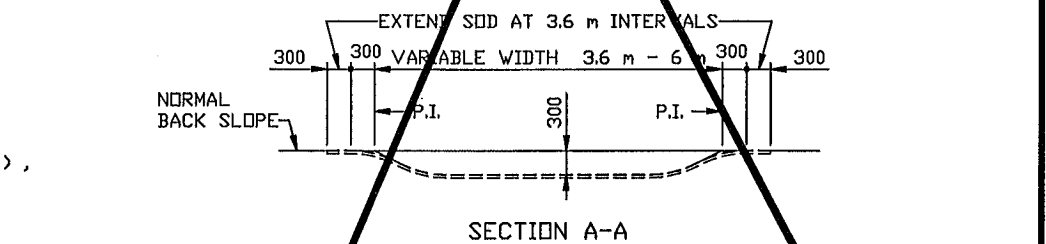
SODDED DITCH CROSS SECTION
 WHERE FRONT OR BACK SLOPE IS FLAT (LESS THAN 0.04 m/m), FIRST NOTCH DITCH AND THEN PROVIDE ROUNDING.



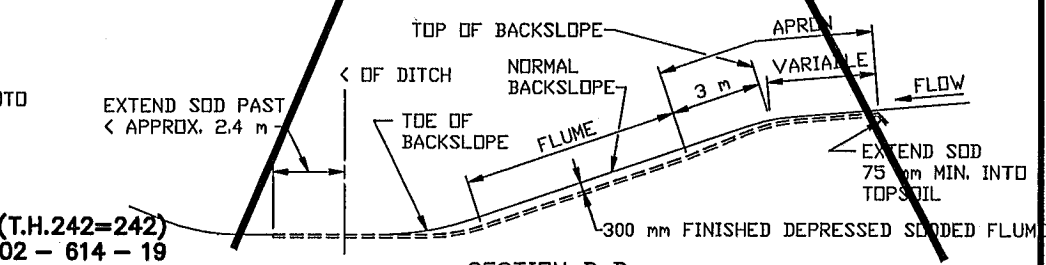
SODDED DITCH DETAILS



PLAN VIEW



SECTION A-A



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.

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. Kull
 DATE: 11/9/99 MINN. REG. NO. 23211

REVISION DATE 3-6-95

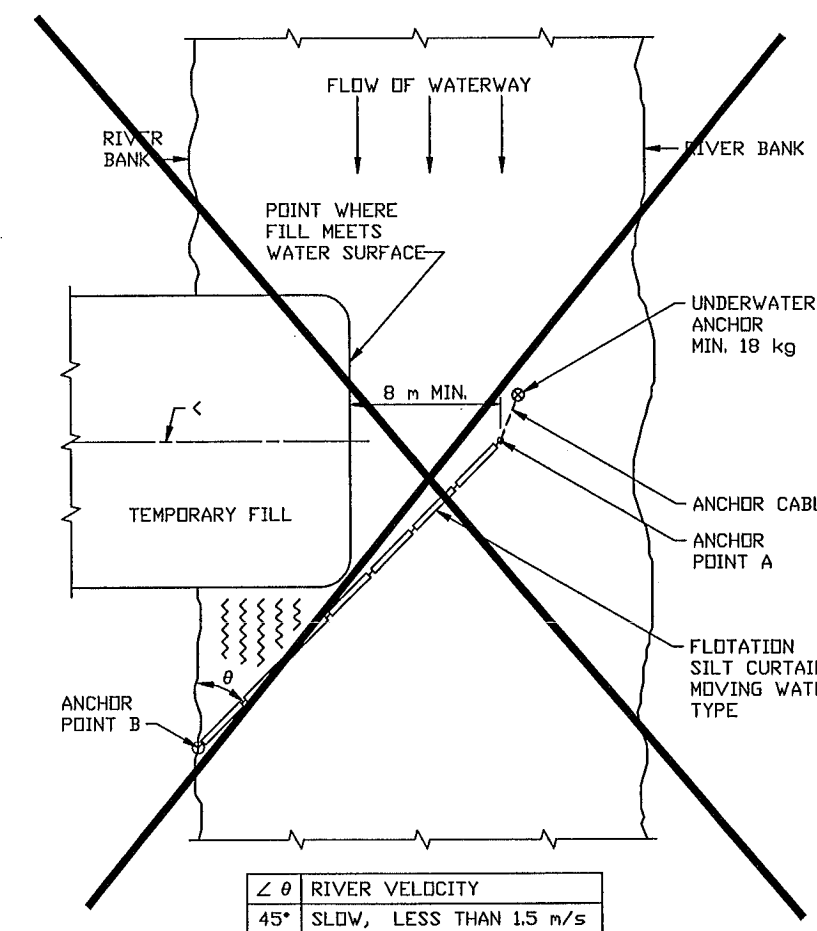
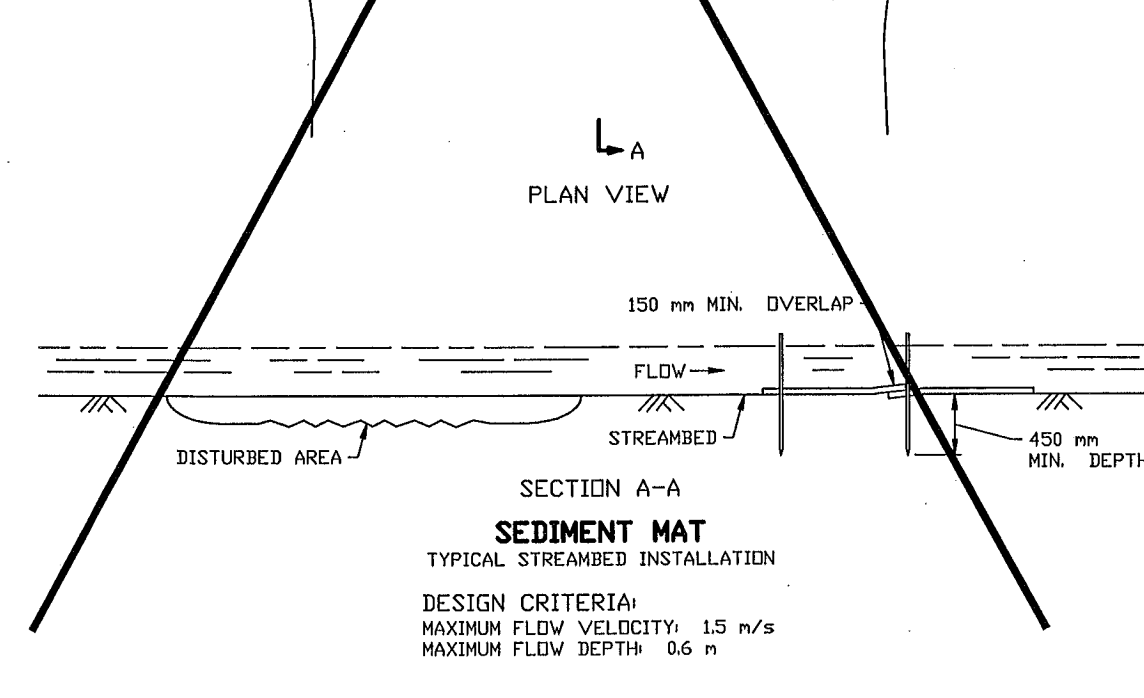
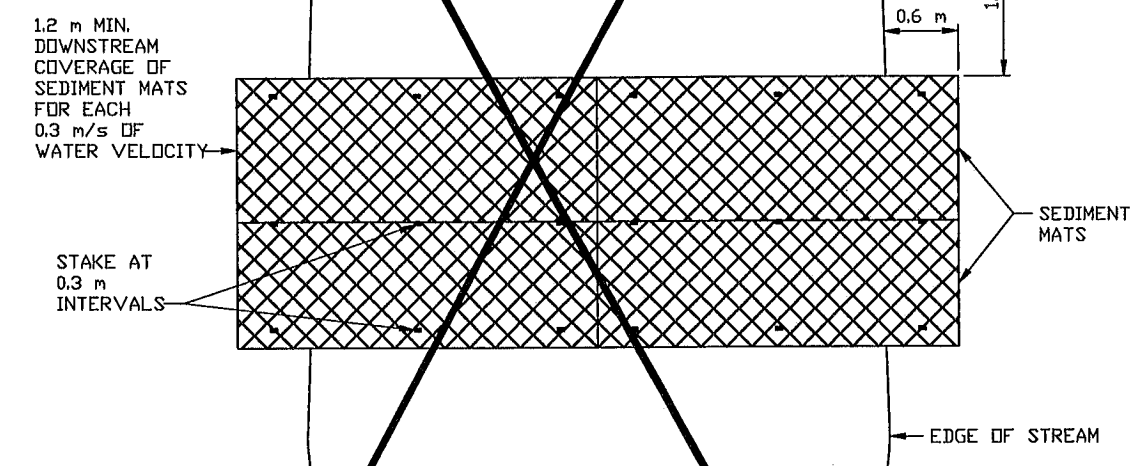
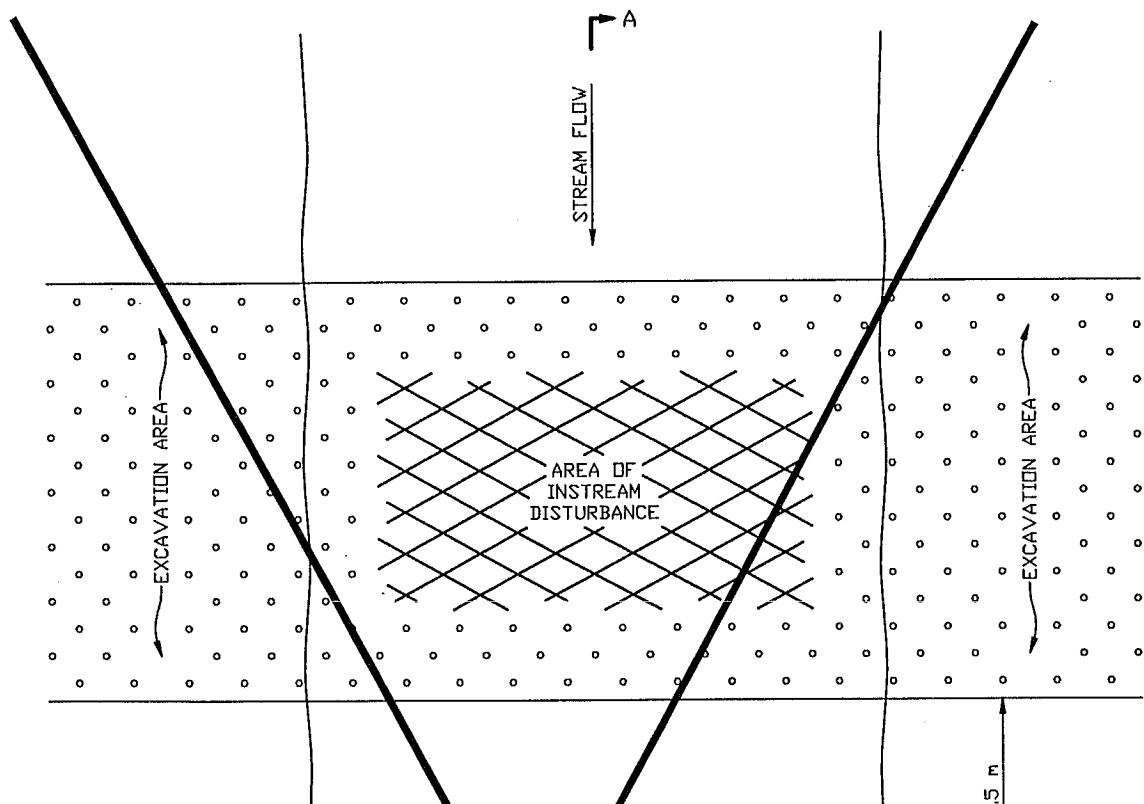
STANDARD SHEET NO. 5-297.404M
 STANDARD APPROVED: DECEMBER 19, 1990

STATE PROJ NO. 0212-40

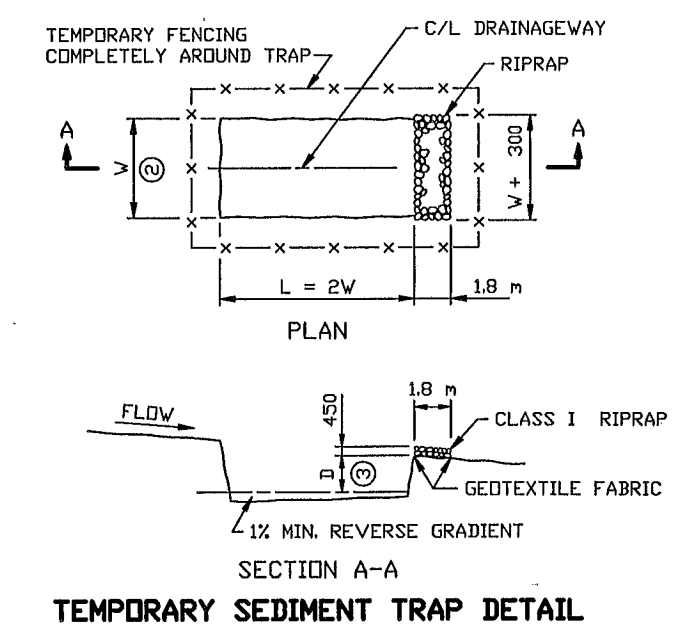
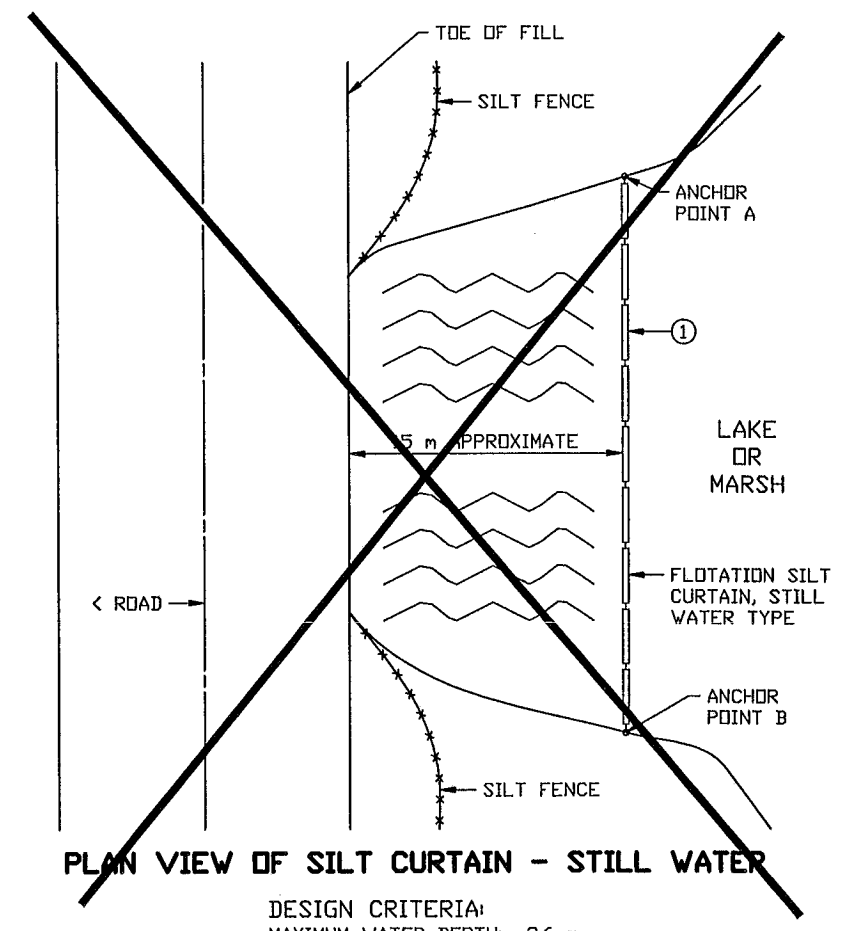
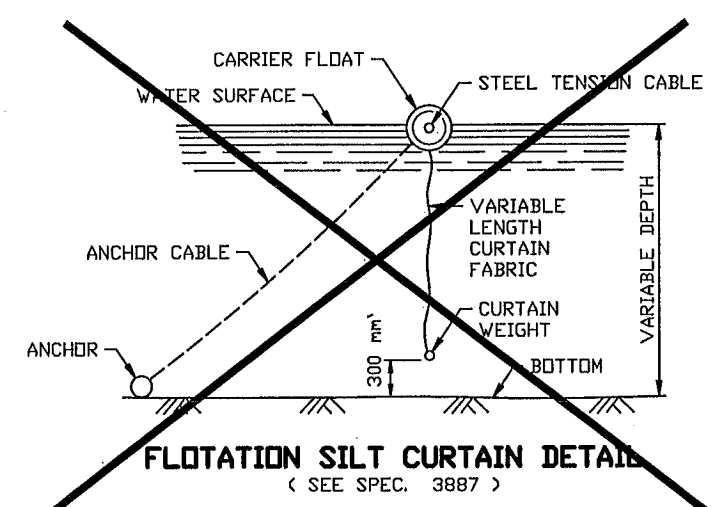
PERMANENT EROSION CONTROL
 ALONG ROADWAYS, DITCHES AND FLUMES

SHEET NO. 44 OF 539 SHEETS

PLOT DATE: Aug 15, 1997 4:12:59pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH... RING\sm4051e95.dwg
 FILE NAME: SM4051E95.SPN



$\angle \theta$	RIVER VELOCITY
45°	SLOW, LESS THAN 1.5 m/s
35°	MODERATE, 1.5 m - 2 m/s



- S.P. 0212-40 (T.H.242=242)
- S.A.P. 02 - 614 - 19
- S.A.P. 02 - 618 - 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 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. Kuhl

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

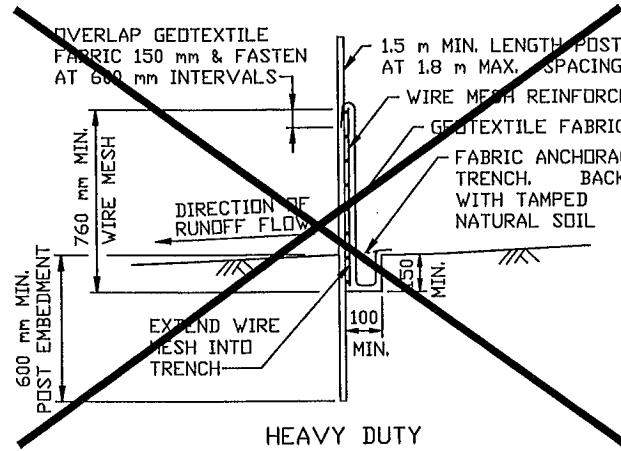
STANDARD SHEET NO. 5-297.405M (1 OF 3)
 STANDARD APPROVED: MAY 1, 1995

REVISION DATE: 5-19-97

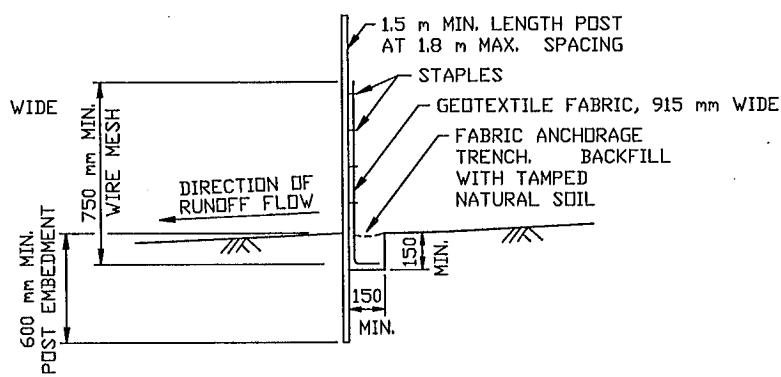
STATE PROJ NO. 0212-40

TITLE: **TEMPORARY EROSION CONTROL**

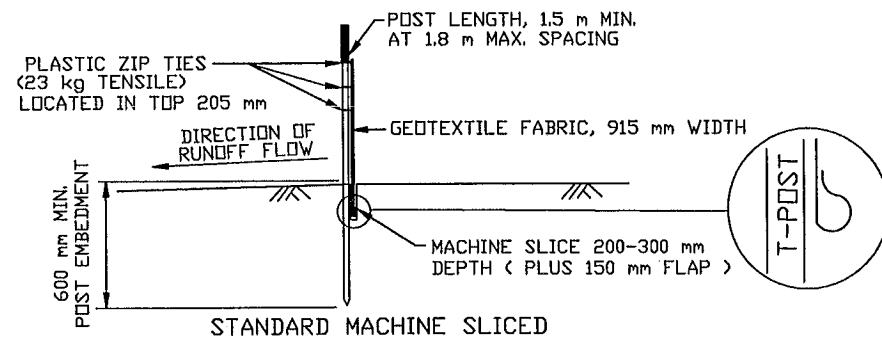
SHEET NO. 45 OF 539 SHEETS



HEAVY DUTY



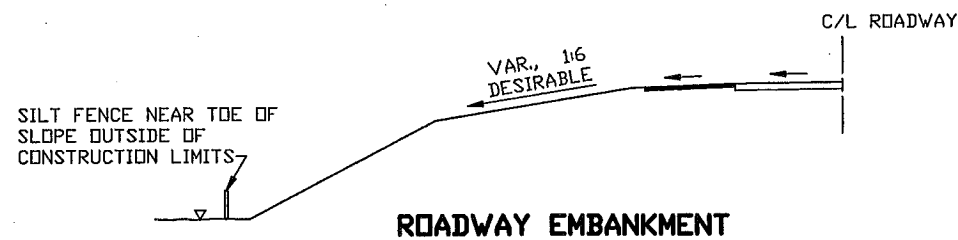
PREASSEMBLED



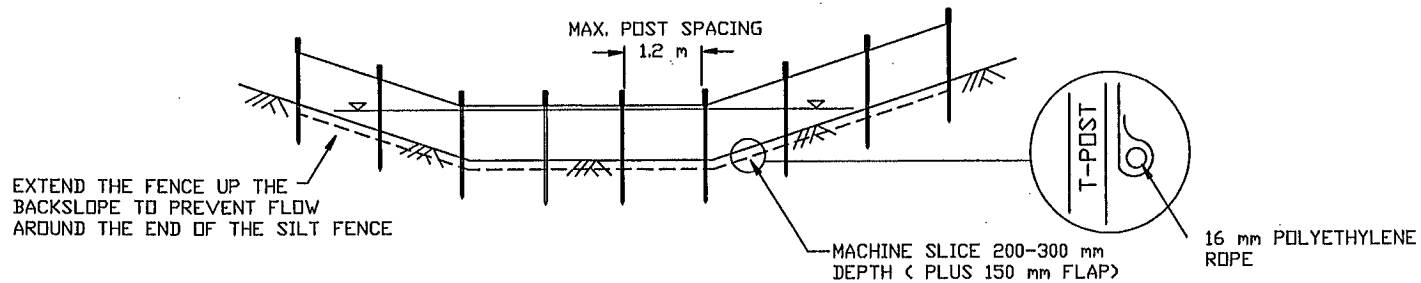
STANDARD MACHINE SLICED

DESIGN CRITERIA:
MAXIMUM CONTRIBUTING AREA: 1.2 ha

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



ROADWAY EMBANKMENT



SPACING DISTANCE = SILT FENCE HEIGHT / % CHANNEL SLOPE

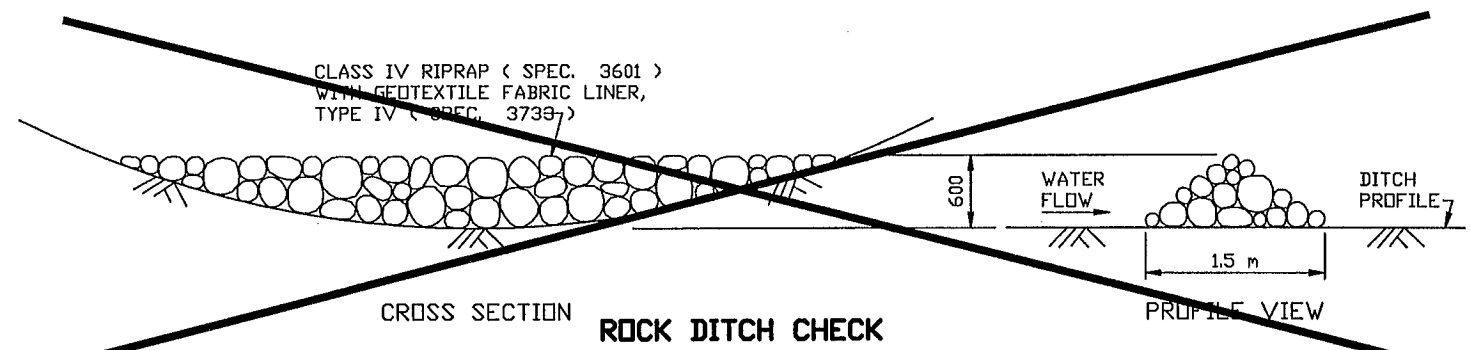
SILT FENCE DITCH CHECK
TYPE MACHINE SLICED

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

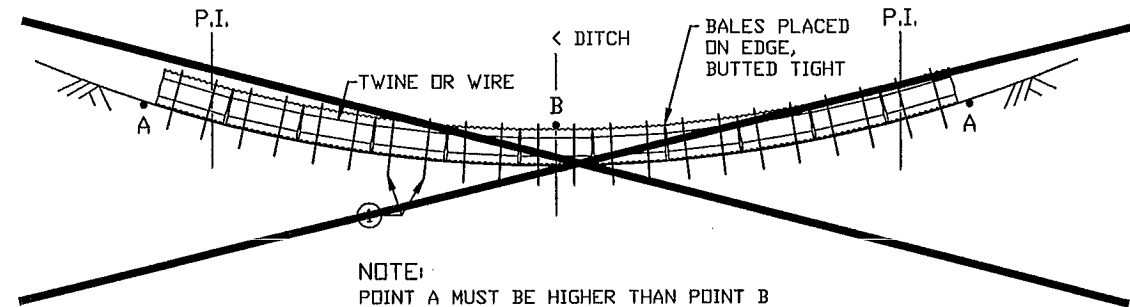
NOTE: WHEN SEDIMENT BUILD UP REACHES 460 mm THE SILT SHOULD BE REMOVED OR A SECOND SILT FENCE BUILT UPSTREAM THE EXISTING ONE AT A SUITABLE DISTANCE.

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

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

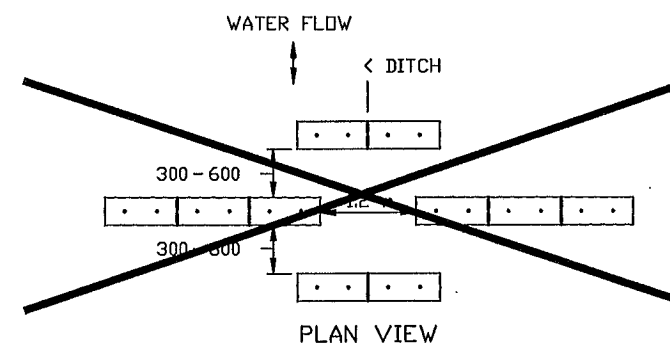


CROSS SECTION **ROCK DITCH CHECK**

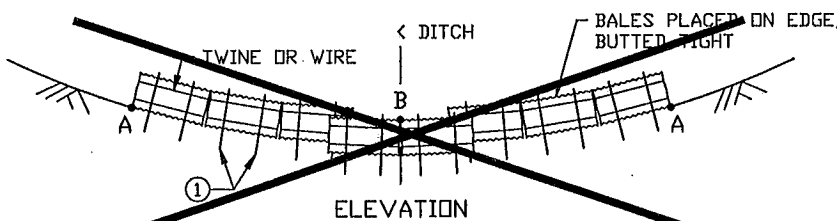


BALE DITCH SEDIMENT CHECK

NOTE: POINT A MUST BE HIGHER THAN POINT B



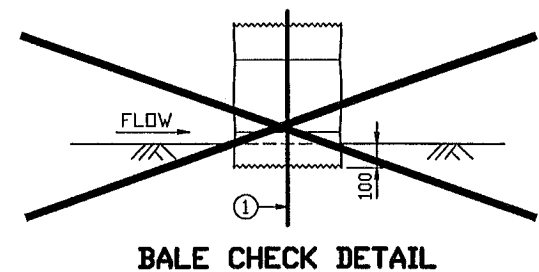
PLAN VIEW



ELEVATION

NOTE: POINT A MUST BE HIGHER THAN POINT B

BALE DITCH VELOCITY CHECKS
(WILL REQUIRE A MINIMUM OF 10 BALES PER SITE)



BALE CHECK DETAIL

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

DESIGN CRITERIA:

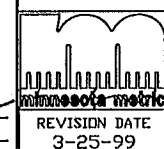
	BALE	ROCK
STORM FREQUENCY:	2 YR. - 24 HR. 10 YR. - 24 HR.	2 YR. - 24 HR. 10 YR. - 24 HR.
MAX. FLOW VELOCITY:	1.5 m/s	3.6 m/s
MAX. DITCH GRADE:	5%	5%
MAX. DRAINAGE AREA:	0.8 ha	2.0 ha

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: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

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



STANDARD SHEET NO.
5-297,405M (2 OF 3)
STANDARD APPROVED:
MAY 1, 1995

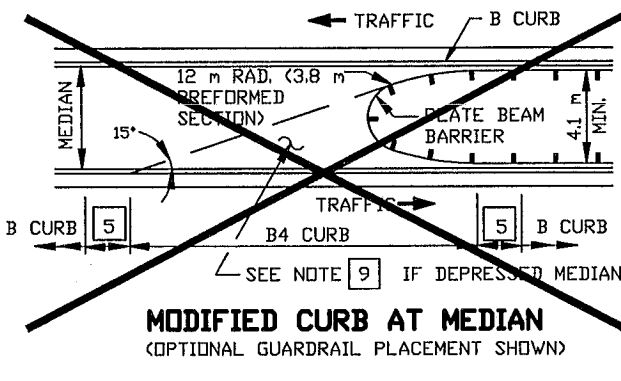
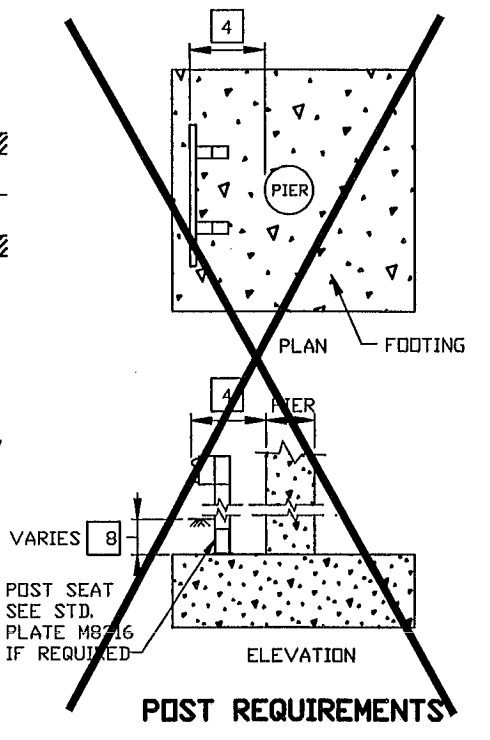
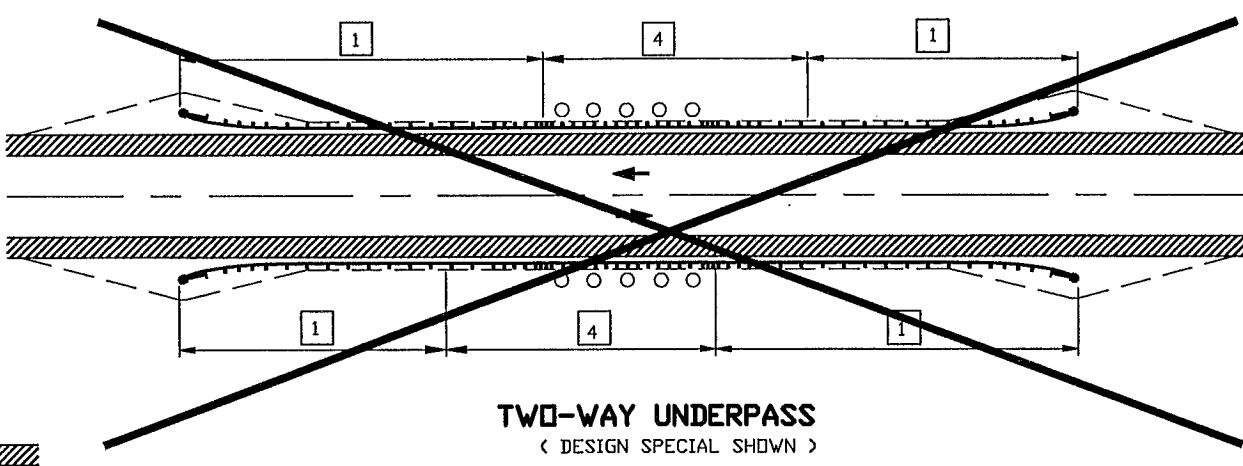
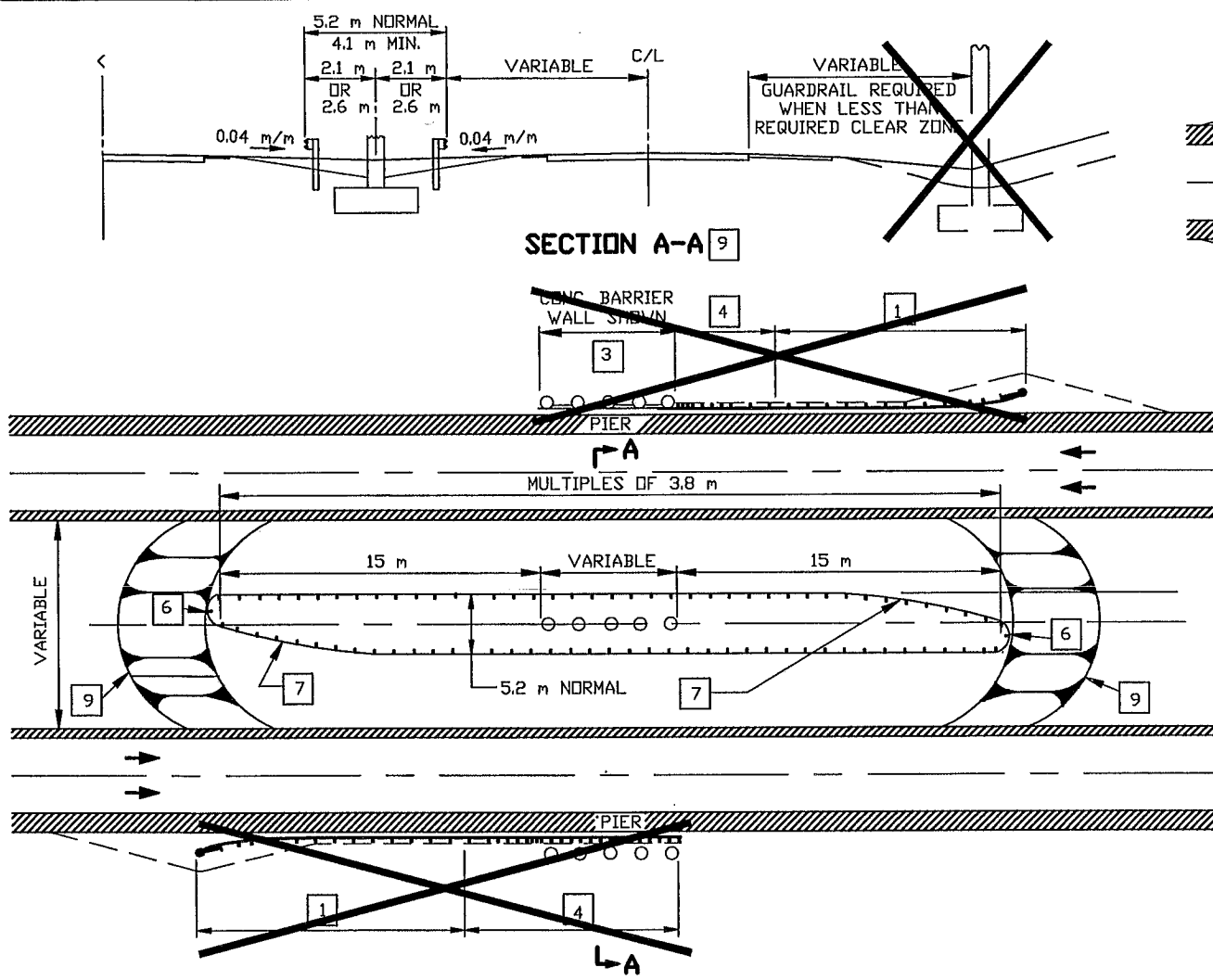
TITLE:
TEMPORARY EROSION CONTROL

STATE PROJ NO. 0212-40

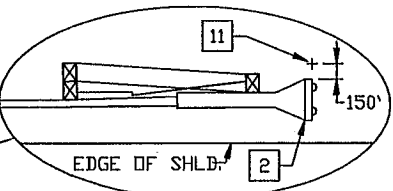
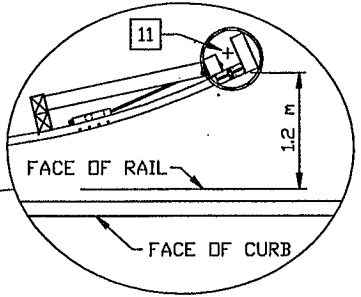
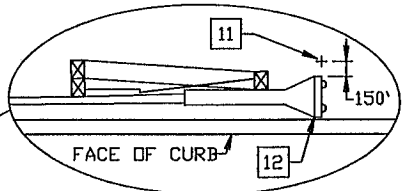
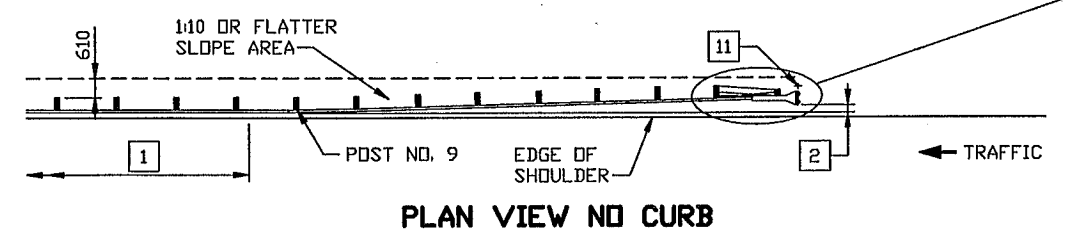
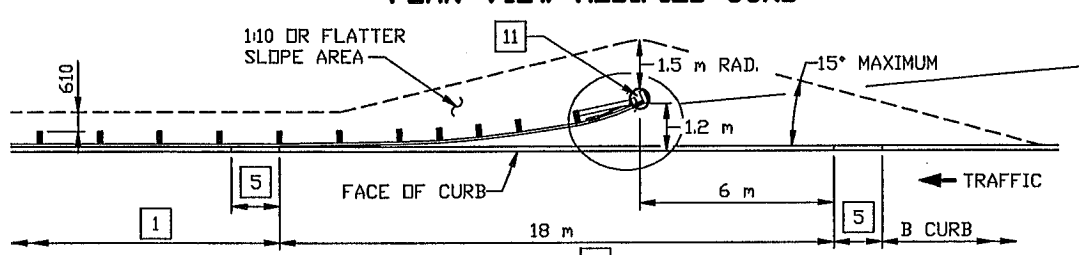
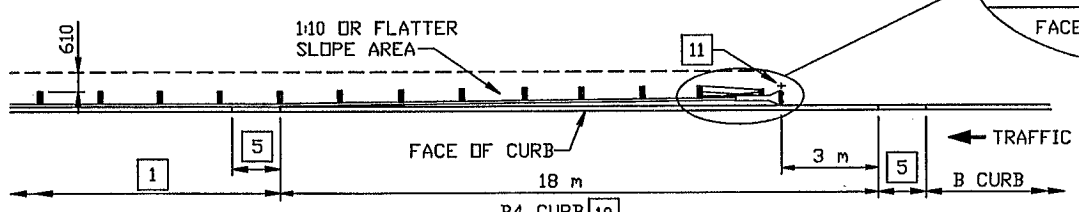
SHEET NO. 46 OF 539 SHEETS

PLOT DATE: Aug 15, 2004 1:12pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH_RING\sm4052e95.dwg FILE NAME: SM4052E95.DWG

PLOT DATE: Aug 15 1999 1:31pm J4
 DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH...
 FILE NAME: SM6011J95:SPN



UNDERPASS-DEPRESSED MEDIAN
(DESIGN SPECIAL SHOWN)



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 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.
- 3 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.
- 4
- 5 DISTANCE FROM FACE OF RAIL TO HAZARD
- 6 GUARDRAIL POST SPACING
- 7 OVER 1.2 m 1.9 m
- 8 1.2 m TO 600 mm 950 mm
- 9 LESS THAN 600 mm DESIGN SPECIAL B & 3
- 10 1.5 m CURB TRANSITION, USE IF ADJACENT CURB IS A DIFFERENT TYPE OR HEIGHT.
- 11 1.5 m RADIUS NOSE SECTION (3.8 m PREFORMED CURVED RAIL SECTION, SEE DETAIL, ON SHEET 2 OF 2).
- 12 7.6 m OF PREFORMED (12 m RADIUS) RAIL SECTIONS.
- 13 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.
- 14 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.
- 15 IF 150 mm+ HIGH CURB, MILL TO 75 mm HEIGHT. NEW: CONSTRUCT 100 mm HIGH CURB.
- 16 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.
- 17 SET EDGE OF EXTRUDER BOX 230 mm FROM FACE OF CURB.

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

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Kevin P. Kull

DATE: 11/9/99 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

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

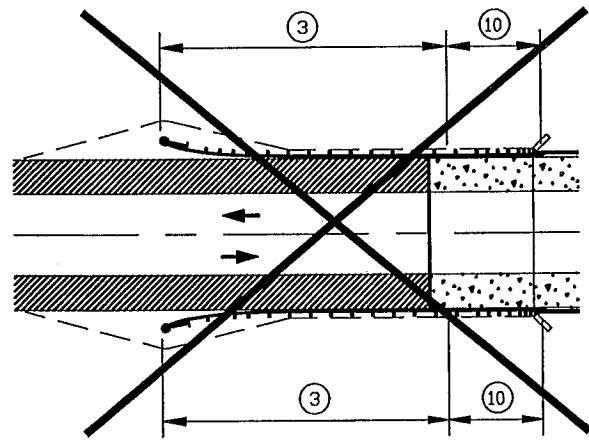
REVISION DATE 9-10-98

TITLE: **GUARDRAIL INSTALLATIONS AT MEDIANS AND END TREATMENTS**

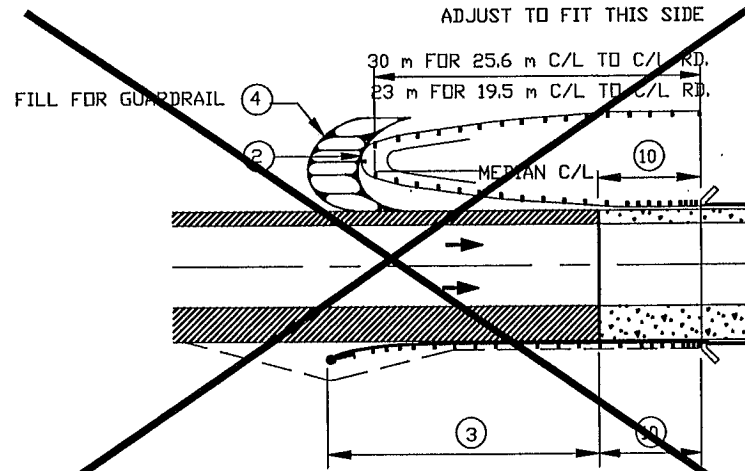
STATE PROJ NO. 0212-40

SHEET NO 47 OF 539 SHEETS

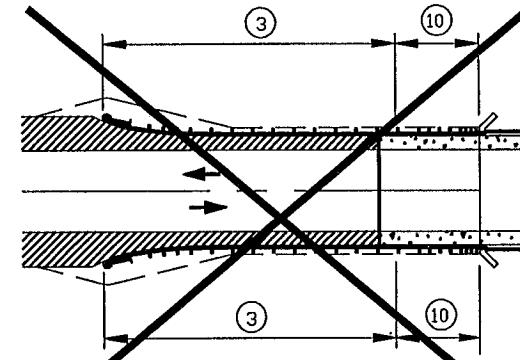
PLOT DATE: Aug 19, 1999 1:12pm
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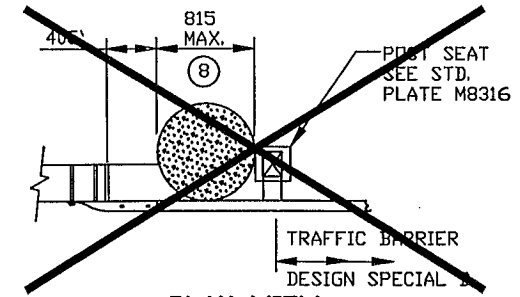
TWO - WAY BRIDGE WITH FULL SHOULDERS



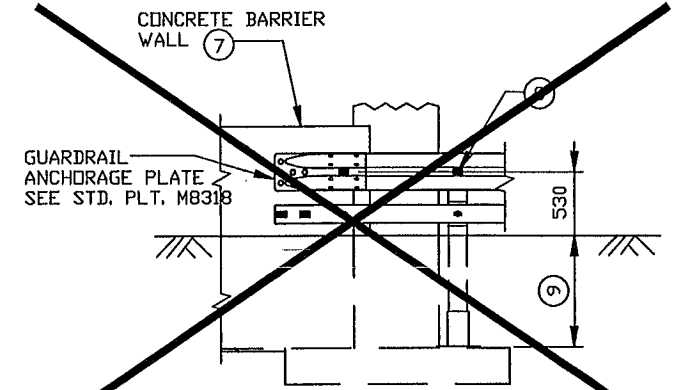
ONE - WAY BRIDGE WITH FULL RIGHT SHOULDER



TWO - WAY BRIDGE WITHOUT FULL SHOULDERS

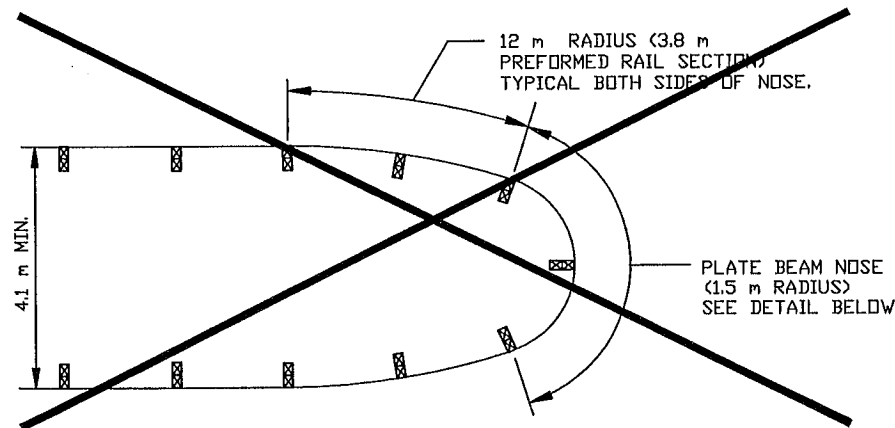


PLAN VIEW

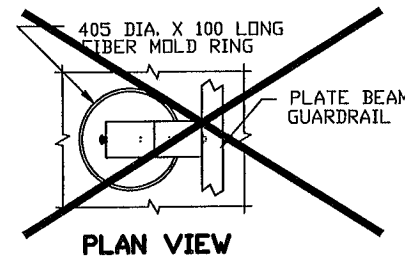


ELEVATION

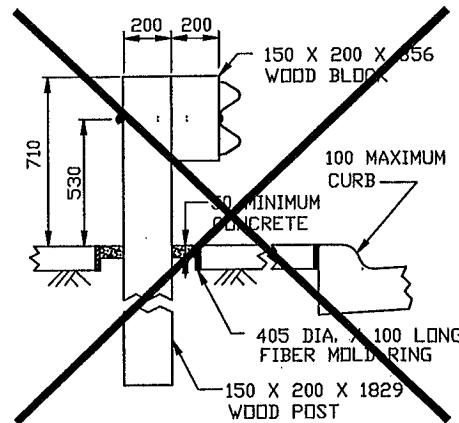
GUARDRAIL POST TO CONCRETE BARRIER WALL CONNECTION ⑥



OPTIONAL GUARDRAIL INSTALLATION ①



PLAN VIEW



ELEVATION

TYPICAL SECTION AT POST SET IN CONCRETE

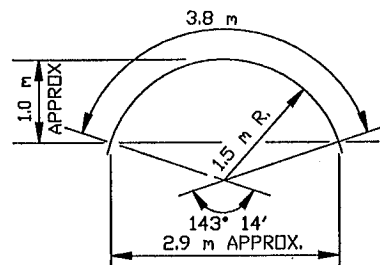


PLATE BEAM NOSE ⑤ (1.5 m RADIUS)

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.
- ① OPTIONAL GUARDRAIL AS DETERMINED BY THE DESIGNER AND SPECIFIED ON SHEET NO. ____ OF ____.
- ② 1.5 m RADIUS NOSE SECTION (3.8 m PREFORMED CURVED RAIL SECTION, SEE DETAIL).
- ③ FOR THE REQUIRED L LENGTH SEE ROAD DESIGN MANUAL 10-7.03 FOR DESIGN PARAMETERS. SEE STANDARD PLATE M8329 FOR END TREATMENT SHOWN.
- ④ 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.
- ⑥ NOTE ⑦, AND ALTERNATE GUARDRAIL AS DETERMINED BY THE DESIGNER AND SPECIFIED ON SHEET NO. ____.
- ⑦ CONCRETE BARRIER WALL BETWEEN BRIDGE PIER COLUMNS. SEE SHEET NO. ____ FOR WALL DETAILS.
- ⑧ FOR COLUMN DIAMETERS LARGER THAN 815 mm, FIELD PUNCH THE GUARDRAIL FOR THE FIRST POST AS SHOWN.
- ⑨ 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.
- ⑩ 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.

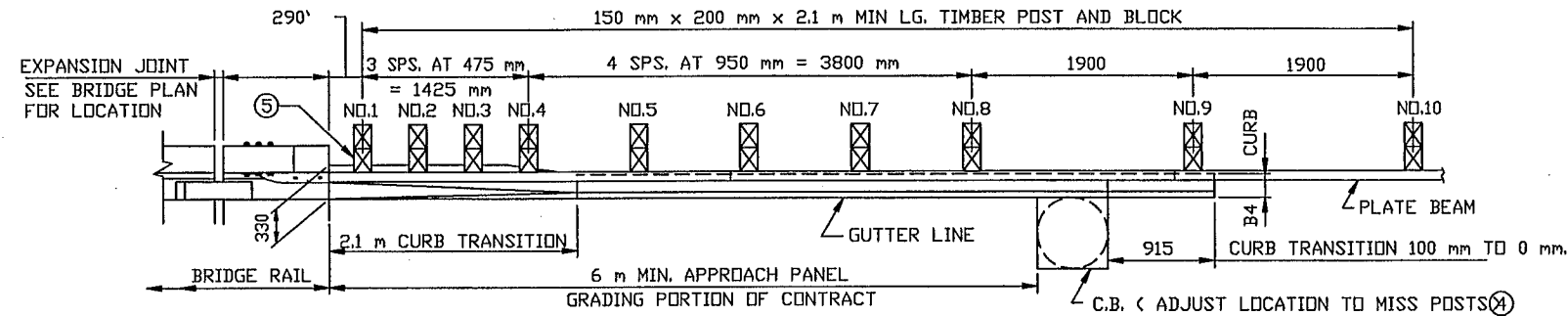
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P. Kull
 DATE: 11/5/99 MINN. REG. NO. 23211

STANDARD SHEET NO. 5-297.601M (2 OF 2)
 STANDARD APPROVED: OCTOBER 13, 1995
 REVISION DATE: 9-16-98
 STATE PROJ NO. 0212-40

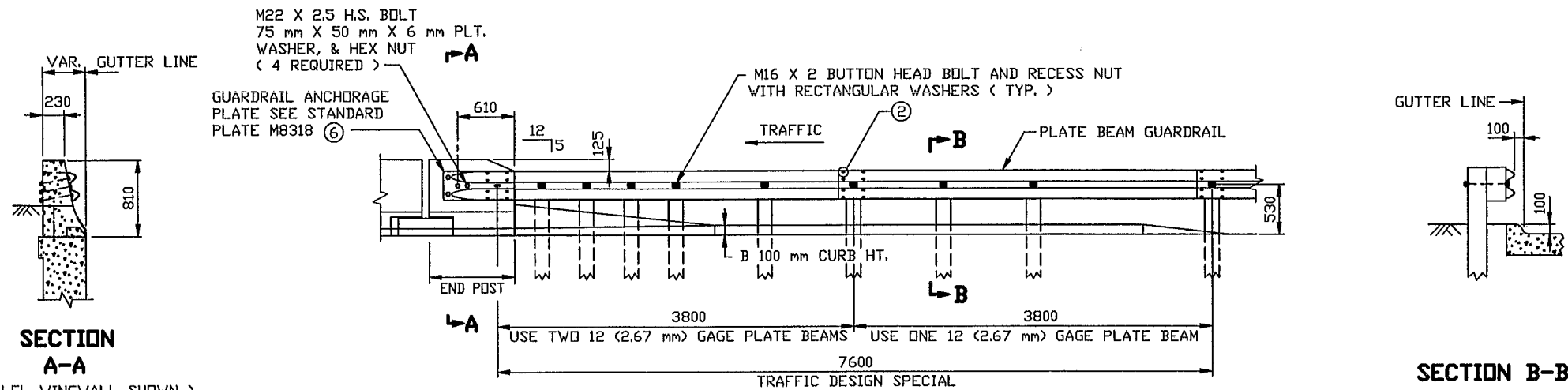
GUARDRAIL INSTALLATIONS AT MEDIANS AND END TREATMENTS

SHEET NO. 47A OF 539 SHEETS

PLOT DATE: Jan 25, 03:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SH1.dwg FILE NAME: SM605A923PN



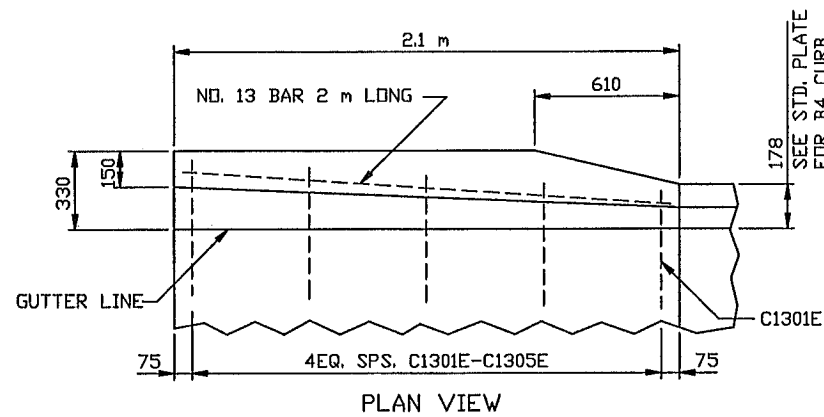
PLAN



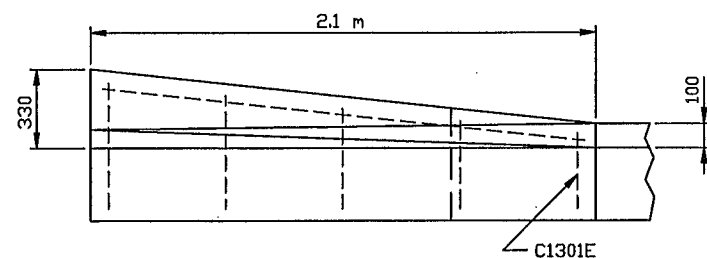
ELEVATION

SECTION A-A
(PARALLEL WINGWALL SHOWN)

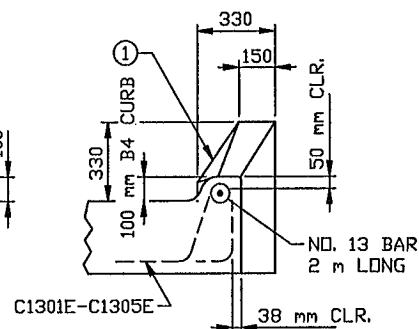
SECTION B-B



PLAN VIEW

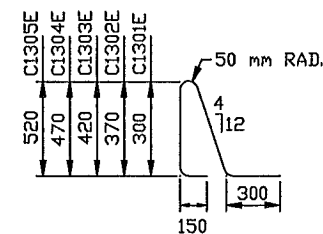


INSIDE ELEVATION



END VIEW

CURB TRANSITION DETAILS



C1301E-C1305E ③

NOTES:

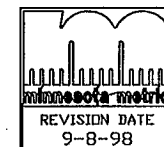
- ① END OF TRANSITION TO MATCH BRIDGE RAIL SURFACE.
- ② M16 X 2 X 32 mm LG. BUTTON HEAD BOLTS AND NUTS TYPICAL AT SPLICES.
- ③ REINFORCEMENT TO BE EPOXY COATED AS PER SPEC. 3301.
- ④ SEE ROAD PLANS TO VERIFY ACTUAL DIMENSION AND LOCATION.
- ⑤ ADDITIONAL BLOCKING MAY BE REQUIRED TO CLEAR BRIDGE STRUCTURE.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

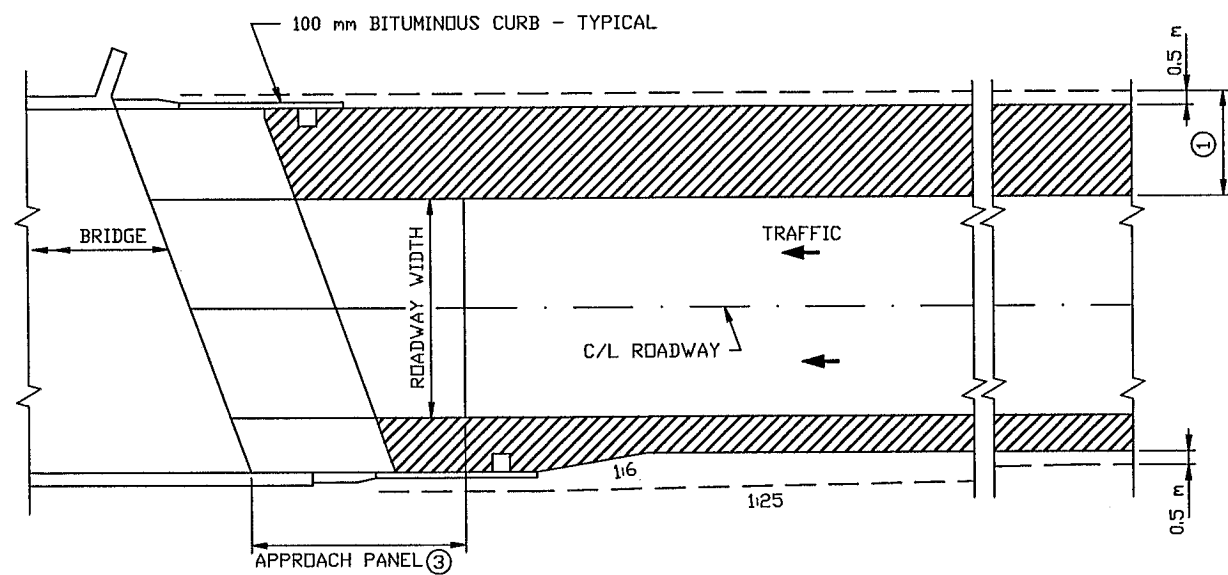


STANDARD SHEET NO. 5-297.605M
 STANDARD APPROVED: JANUARY 23, 1992

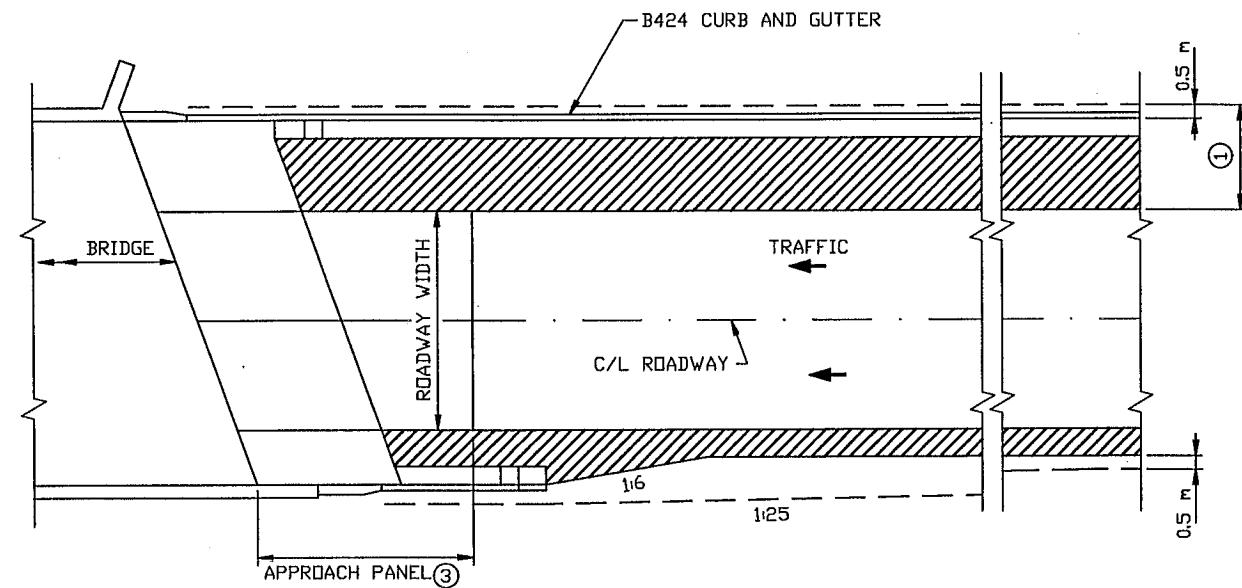
TITLE: GUARDRAIL TRANSITION FOR CONCRETE SAFETY SHAPED BARRIER WITH APPROACH CURB

STATE PROJ NO. 0212-40

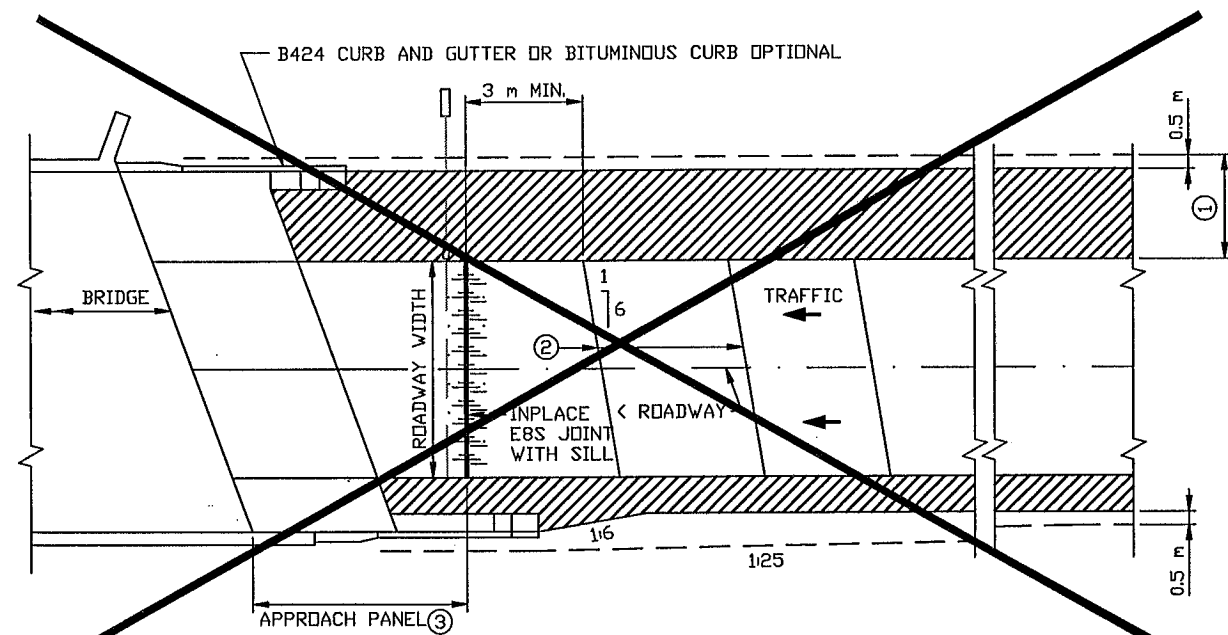
SHEET NO. 48 OF 539 SHEETS



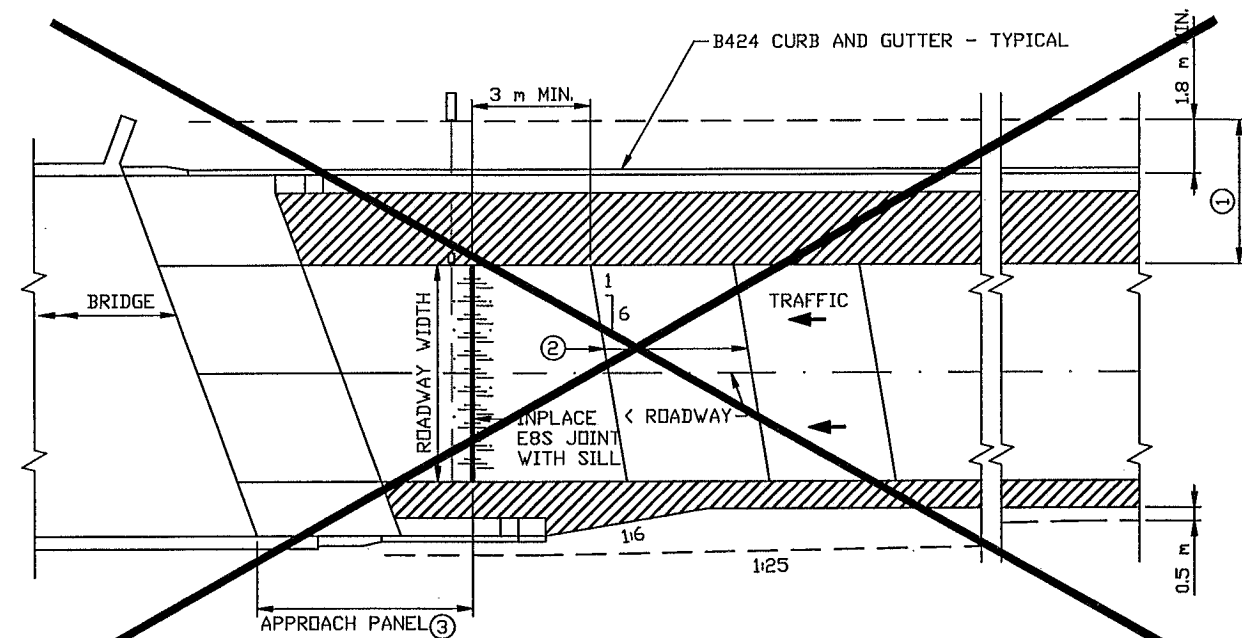
BITUMINOUS SURFACED MAINLINE (RURAL)



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 - 136 - 02
 S.A.P. 114 - 127 - 02

NOTES:

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

FILE NAME: SM222C93.SPN

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Kevin P. Kullb
 DATE: 11/8/99 MINN. REG. NO. 23211

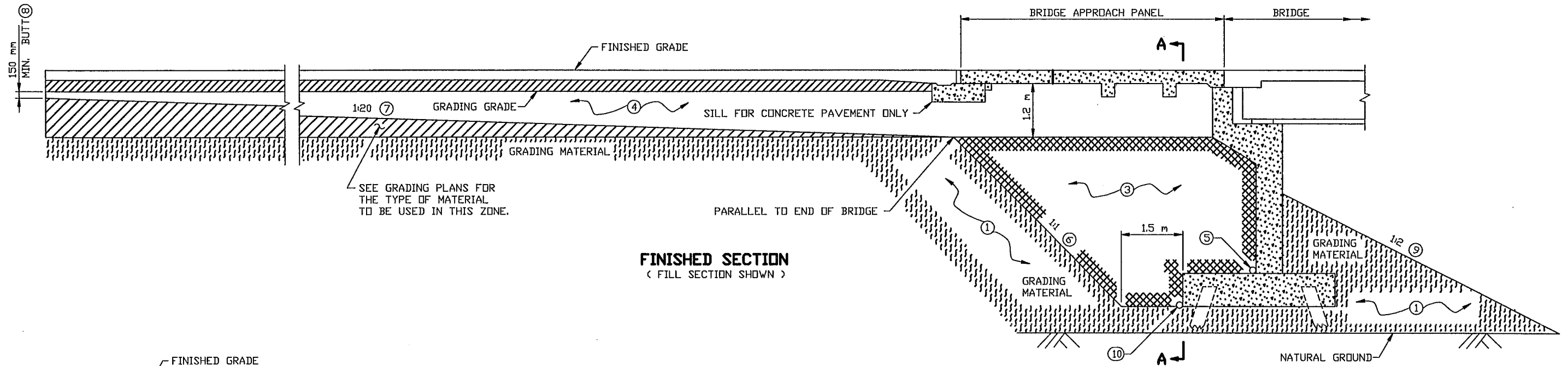


STANDARD SHEET NO. 5-297.222M
 STANDARD APPROVED: MARCH 23, 1993

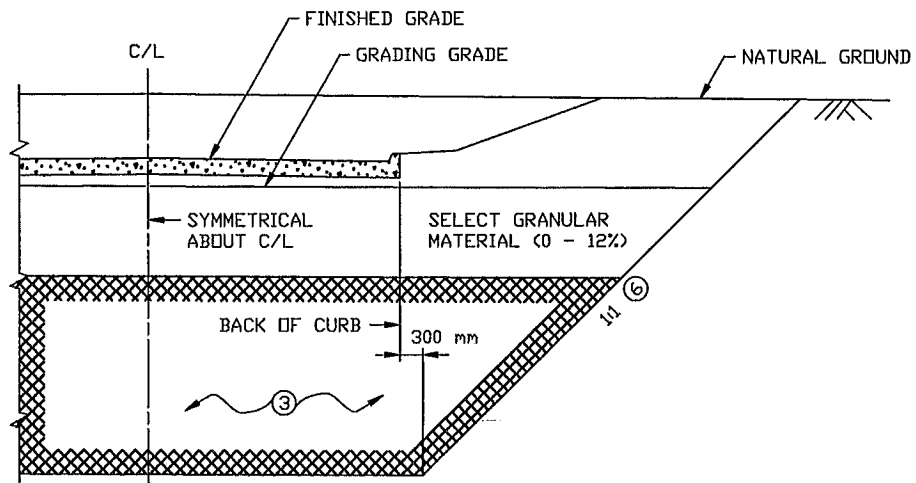
TITLE: ADJACENT BRIDGE APPROACH AREA (CONCRETE AND BITUMINOUS ROADWAYS)

STATE PROJ. NO. 0212-40

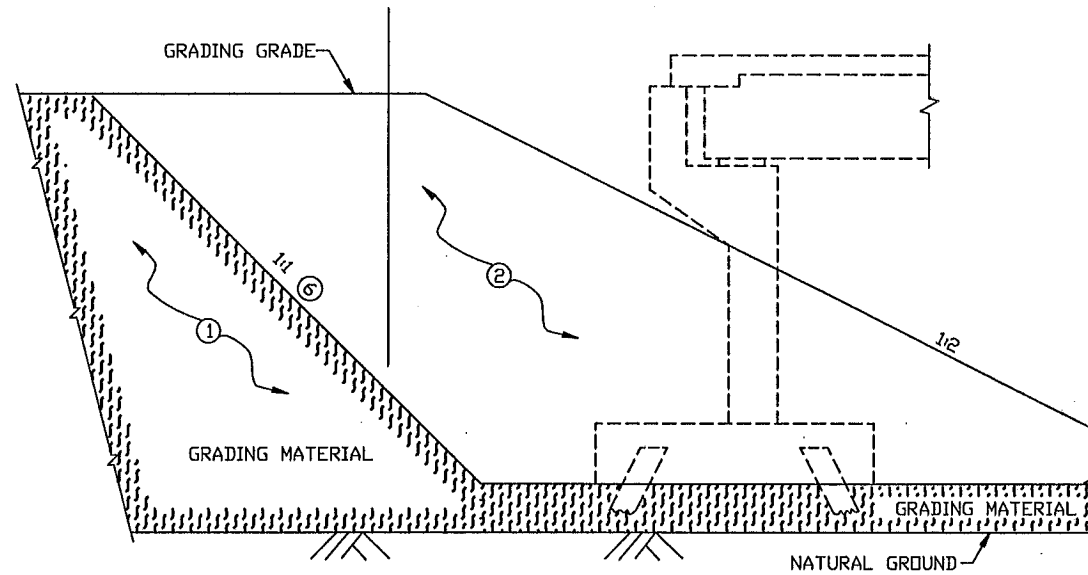
SHEET NO. 49 OF 539 SHEETS



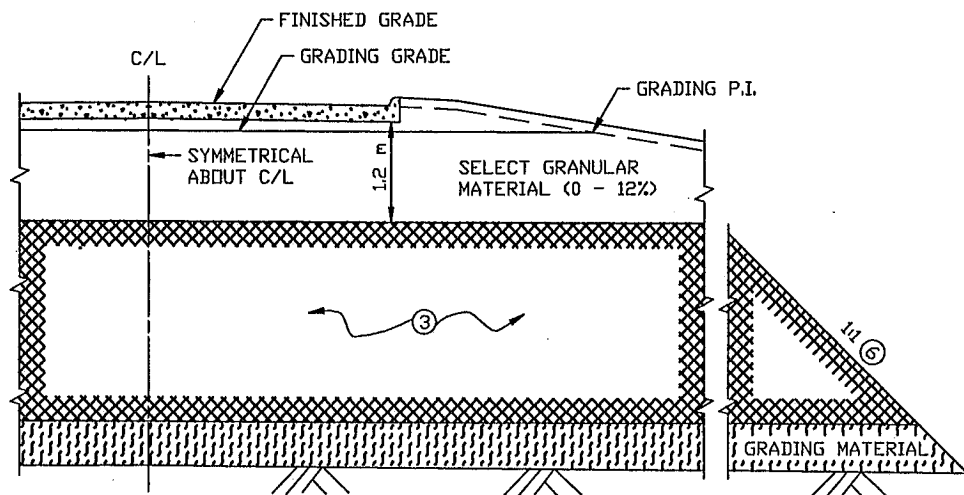
FINISHED SECTION
(FILL SECTION SHOWN)



HALF SECTION A-A
(CUT SECTION)



GRADING SECTION AT ABUTMENT



HALF SECTION A-A
(FILL SECTION)

- 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.

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

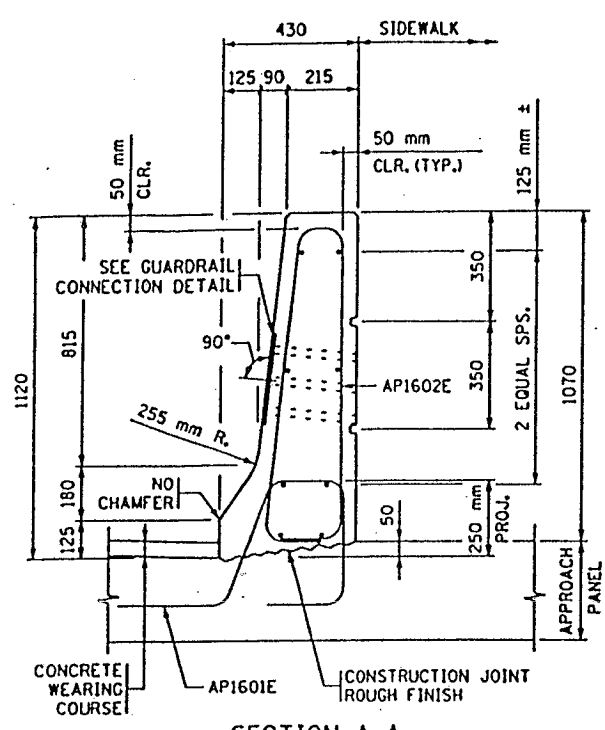
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Kevin P. Kull
 DATE: 11/6/99 MINN. REG. NO. 23211

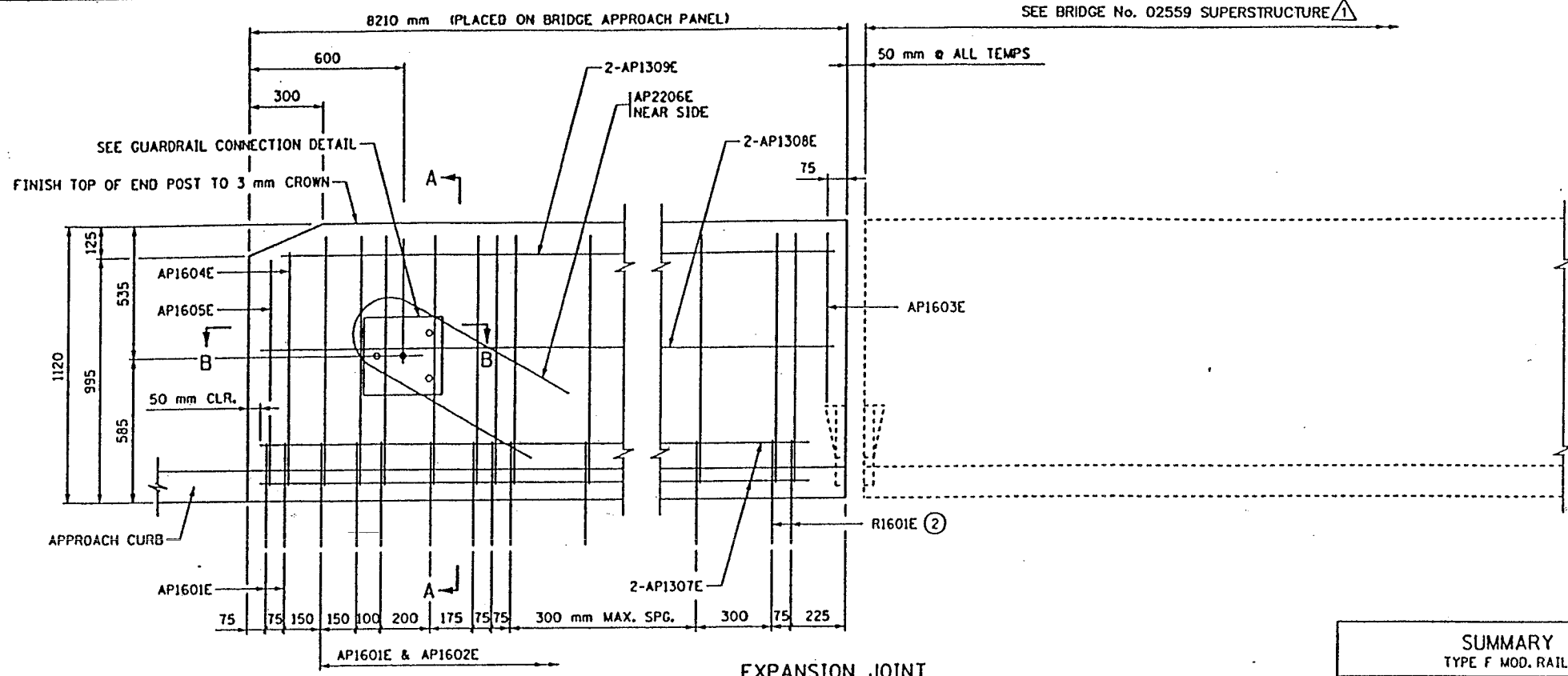
STANDARD SHEET NO. 5-297.233M
 STANDARD APPROVED: AUGUST 4, 1992
 REVISION DATE 8-20-99

STATE PROJ. NO. 0212-40

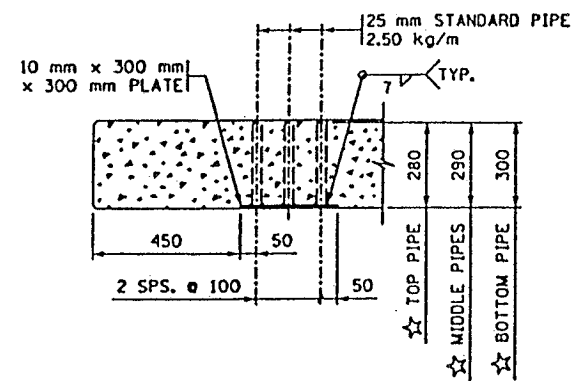
TITLE: **BRIDGE APPROACH TREATMENT FOR BOTH HIGH AND LOW ABUTMENTS ON PILING**
 SHEET NO. 50 OF 539 SHEETS



SECTION A-A

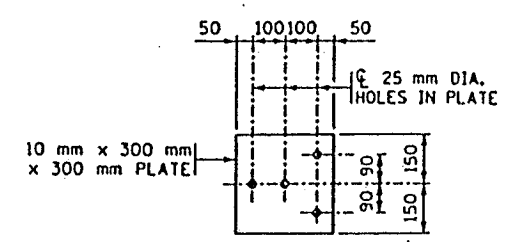


INSIDE ELEVATION OF RAILING ON APPROACH PANEL
(CONCRETE WEARING COURSE NOT SHOWN)



SECTION B-B

(REINFORCEMENT NOT SHOWN)
★ DIMENSIONS INCLUDE 10 mm PLATE

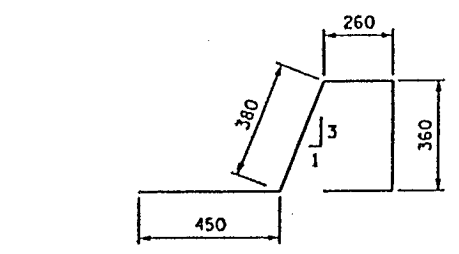


GUARDRAIL CONNECTION DETAIL

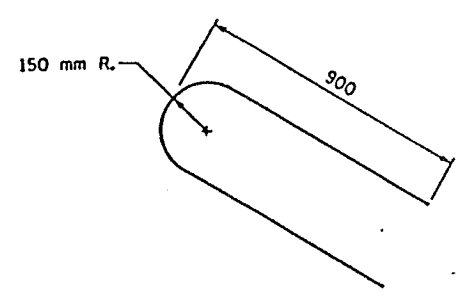
GALVANIZE AFTER FABRICATION PER Mn/DOT SPEC. 3394
ESTIMATED WEIGHT = 9.9 kg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JL	2/11/00	ADDENDUM ADDED TEXT "No. 02559"
2	TBR	2/27/04	AS-BUILT DRAWING

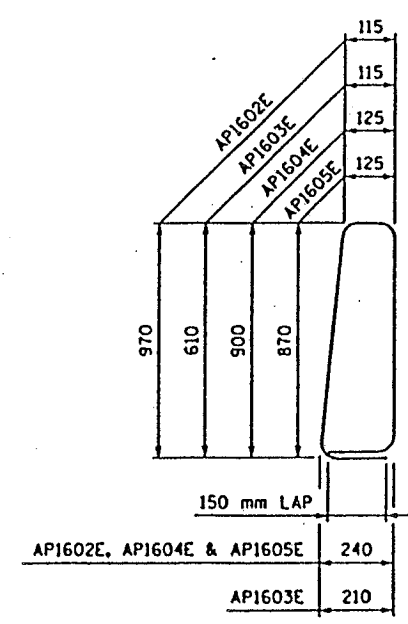
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02



AP1601E



AP2206E



AP1602E, AP1603E, AP1604E & AP1605E

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

BILL OF REINFORCEMENT FOR RAILING				
BAR	NO.	LENGTH	SHAPE	LOCATION
AP1601E	124	1650	[Symbol]	RAIL DOWEL
AP1602E	132	2430	[Symbol]	RAIL VERTICAL
AP1603E	4	1680	[Symbol]	RAIL VERTICAL
AP1604E	4	2300	[Symbol]	RAIL VERTICAL
AP1605E	4	2240	[Symbol]	RAIL VERTICAL
AP2206E	4	1970	[Symbol]	RAIL VERTICAL
AP1307E	16	8010	[Symbol]	RAIL LONGITUDINAL
AP1308E	8	8110	[Symbol]	RAIL LONGITUDINAL
AP1309E	8	8060	[Symbol]	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 m³/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.

CERTIFIED BY: *David W. Long*
PROFESSIONAL ENGINEER
REG. NO. 24384 10-29 1999

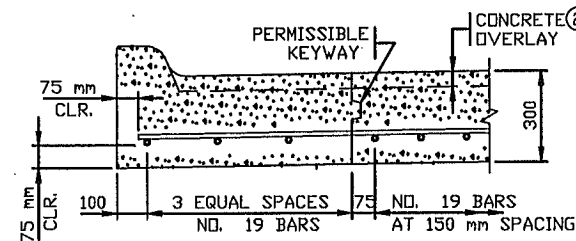
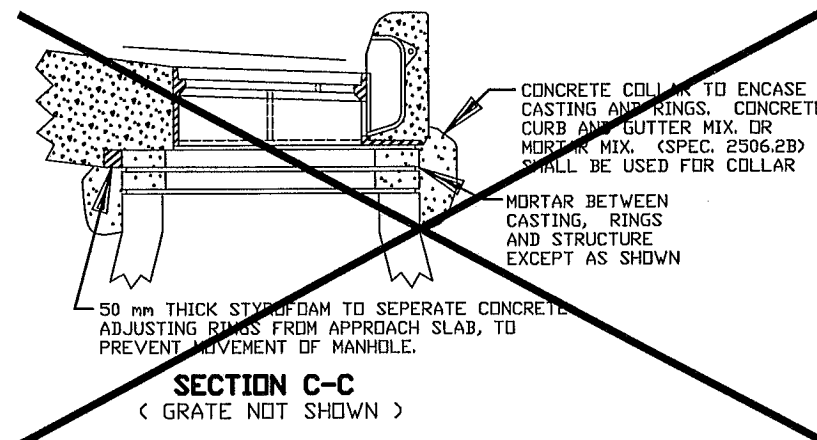
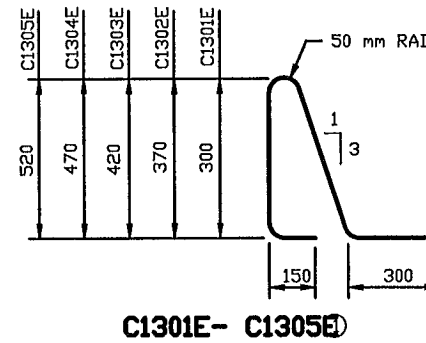
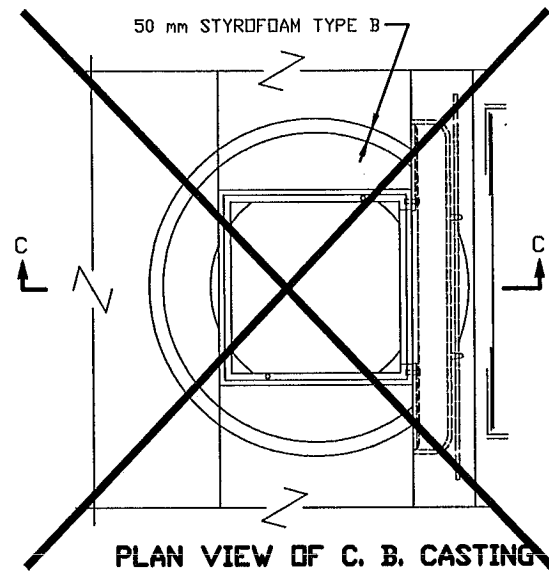
TITLE: CONCRETE RAILING (TYPE F)
ON APPROACH PANEL

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

SHEET NO. 51 OF 539 SHEETS

SUMMARY OF QUANTITIES FOR BRIDGE APPROACH PANEL

CONCRETE MIX NO. 3X42	m ³
REINFORCEMENT BARS	kg
CURB DESIGN B4 INTEGRANT	m
CURB DESIGN B424	m



CURB DETAIL ①

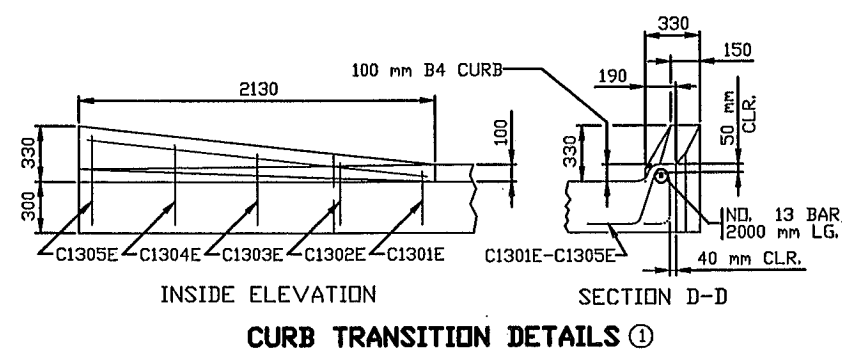
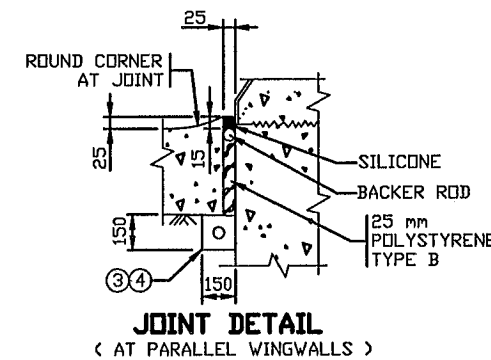
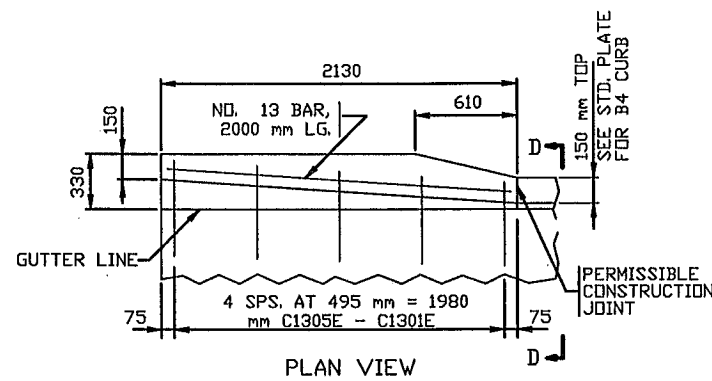
(B4 INTEGRANT CURB OR B424 MODIFIED CURB AND GUTTER)

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:

- ALL REINFORCEMENT IN APPROACH PANEL AND CURB SHALL BE GRADE 420 AND EPOXY COATED AS PER SPEC. 3301.
- 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.
- 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.
- BACKFILL WITH FINE AGGREGATE, SPEC. 3149, MODIFIED TO 0-3% PASSING A 75 μm SIEVE.



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

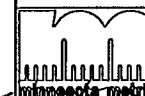
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NOTE: ALL DIMENSIONS ARE IN MILLIMETERS, EXCEPT AS NOTED.

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. Kuhl

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



STANDARD SHEET NO. 5-297.224M
STANDARD APPROVED NOVEMBER 9, 1999

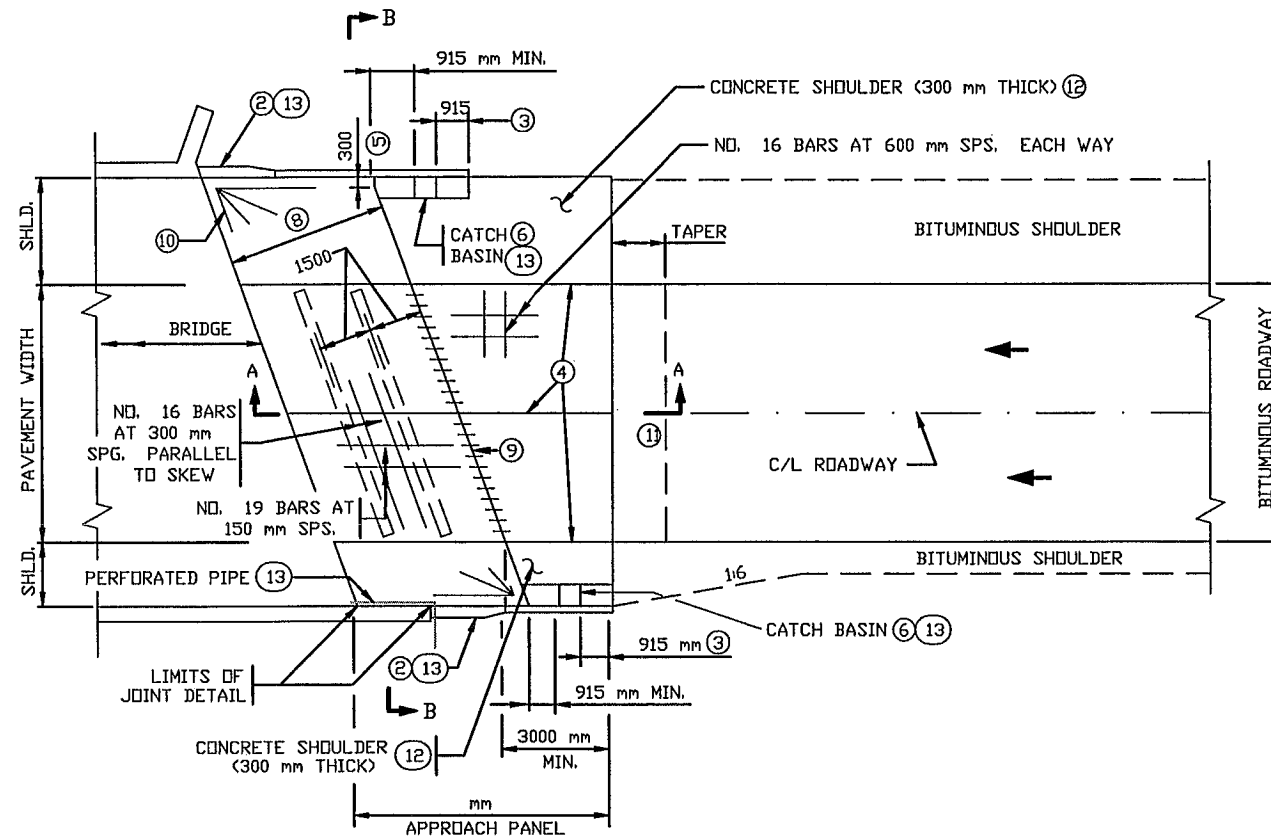
TITLE: BRIDGE APPROACH PANEL
BITUMINOUS MAINLINE ROADWAY
(MISCELLANEOUS DETAILS)

STATE PROJ NO. 0212-40

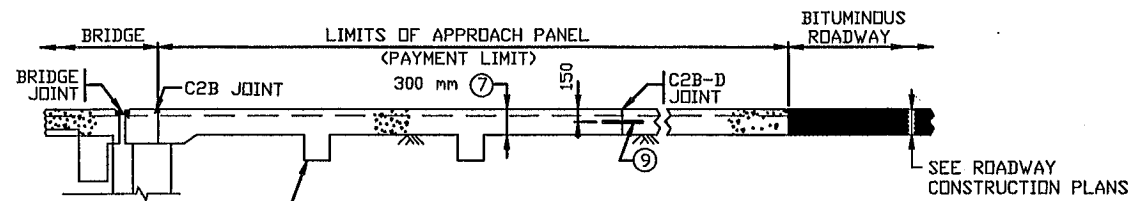
SHEET NO. 52 OF 539 SHEETS

PLOT DATE: Aug 19, 1999 1:16pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\3RING\Sm224k99.dwg FILE NAME: SNE224K99.SFN

PLOT DATE: Aug 19, 1999 1:21pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH1\SRING\Sm230k99.dwg
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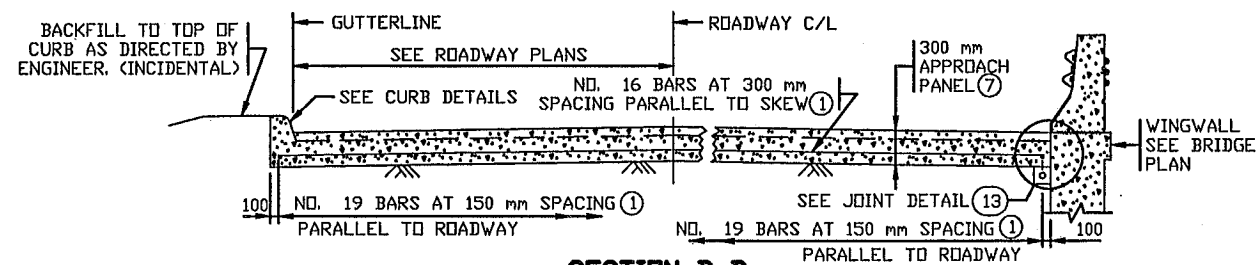


DIVIDED-URBAN ROADWAY PLAN
PARALLEL & NONPARALLEL WINGWALLS



300 mm X 300 mm MIN. KEY. CONCRETE SHALL BE PLACED DIRECTLY AGAINST COMPACTED BASE MATERIAL OR FORMS AND PARALLEL TO SKEW IF ANY. END KEY 150 mm FROM EDGE OF ROADWAY.

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

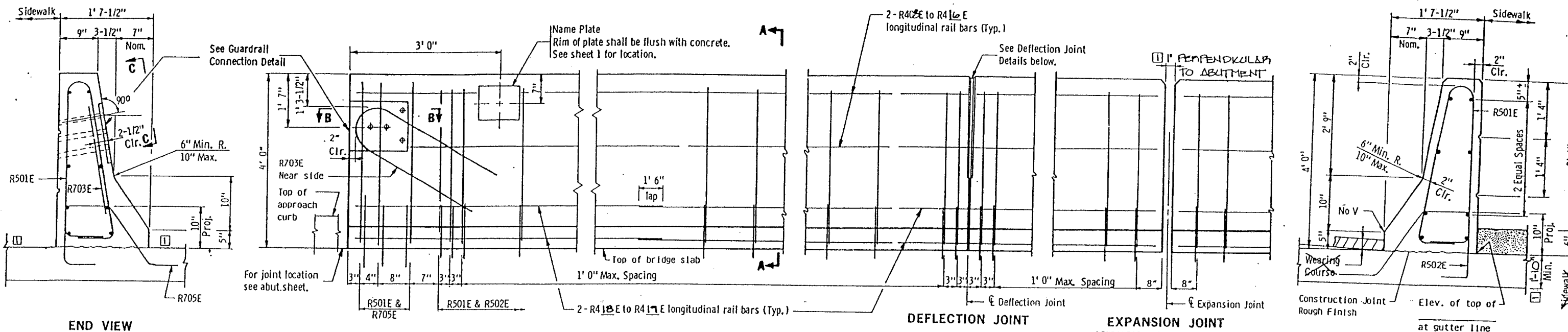
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

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

STANDARD SHEET NO. 5-297.230M
 STANDARD APPROVED: NOVEMBER 9, 1999

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



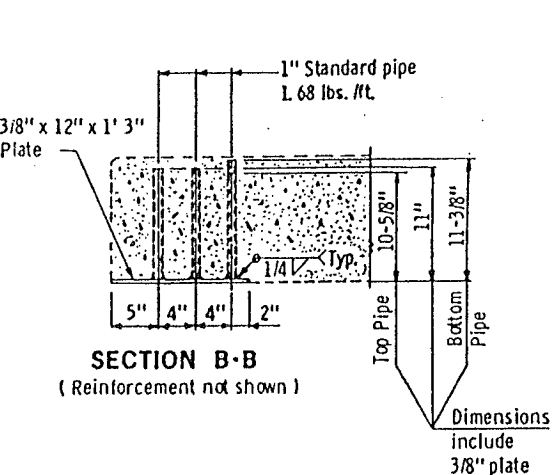
END VIEW

INSIDE ELEVATION OF RAILING
(WEARING COURSE NOT SHOWN)

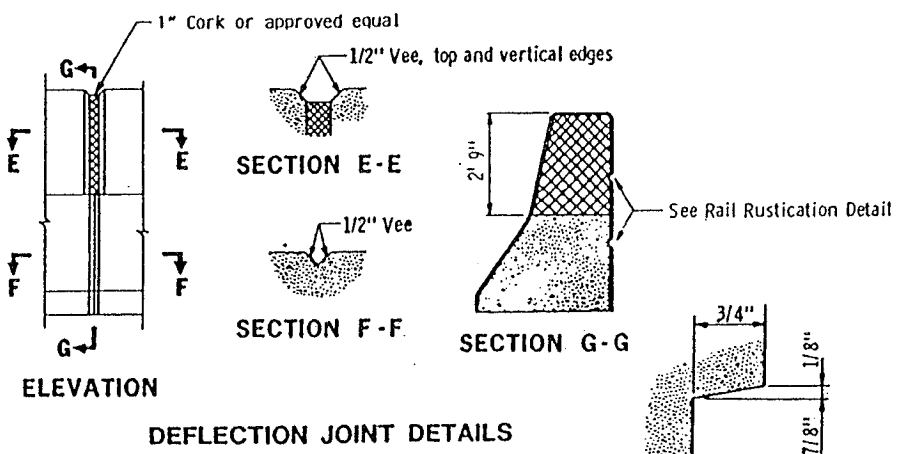
DEFLECTION JOINT

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

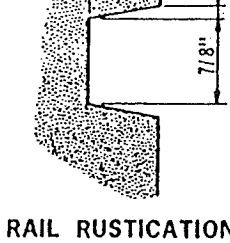
SECTION A-A



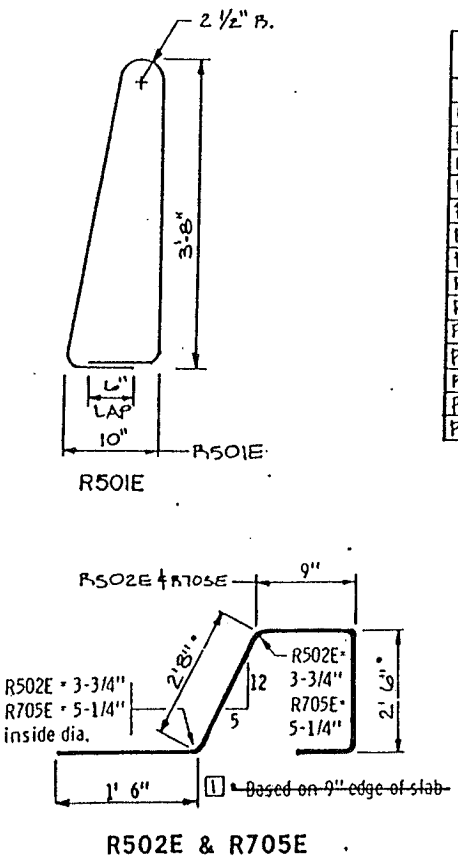
SECTION B-B
(Reinforcement not shown)



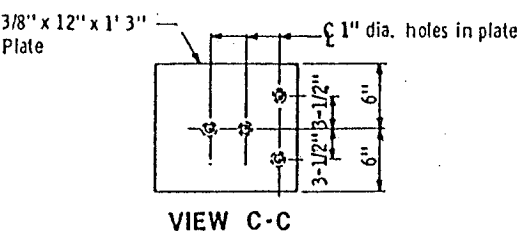
DEFLECTION JOINT DETAILS



RAIL RUSTICATION



BAR	NO.	LENGTH	SHAPE	LOCATION
R501E	400	8'-11"	BENT	RAIL - VERTICAL
R502E	388	7'-1"	BENT	RAIL - VERTICAL
R705E	4	6'-6"	BENT	END POST
R705E	12	7'-11"	BENT	END POST
R705E	4	17'-3"	STP.	RAIL - LONGIT.
R705E	4	13'-8"	STP.	RAIL - LONGIT.
R705E	16	16'-8"	STP.	RAIL - LONGIT.
R705E	4	10'-10"	STP.	RAIL - LONGIT.
R705E	16	14'-8"	STP.	RAIL - LONGIT.
R705E	4	20'-6"	STP.	RAIL - LONGIT.
R705E	16	16'-8"	STP.	RAIL - LONGIT.
R705E	16	16'-2"	STP.	RAIL - LONGIT.
R705E	16	36'-0"	STP.	RAIL - LONGIT.
R705E	16	35'-5"	STP.	RAIL - LONGIT.

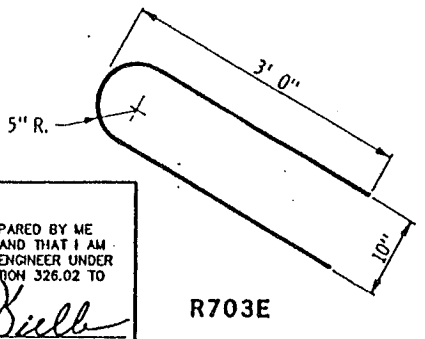


VIEW C-C

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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JL	2/11/00	ADDENDUM ADDED PLAN SHEET
2	TJR	2/27/04	AS-BUILT DRAWING

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



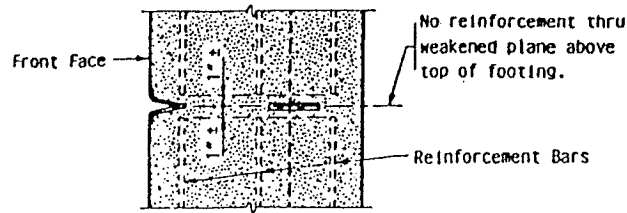
R703E

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

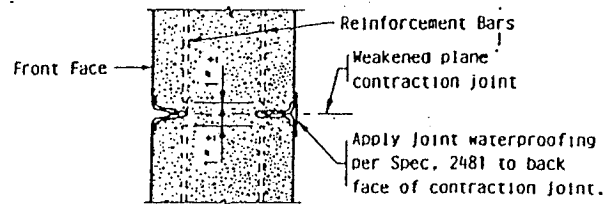
TITLE:
CONCRETE RAILING (TYPE J-SW)
WITH SIDEWALK AND INTEGRAL END POST

REVISION: 1
APPROVED: APRIL 15, 1988
NOV. 26, 1985
FIG. 5-397.119
DES: MN/DOT
CHK: B.J.J.
DR: MN/DOT
CHK: B.J.J.
APPROVED:
Bridge No. 02549
Sheet No. 52B of 539 Sheets

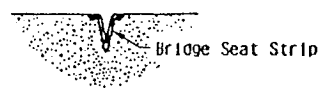
GENERAL NOTES:
Conc. Railing = 640 lbs./ft.
Conc. Railing = .158 cu. yds./ft.
Rail and end post to be Concrete Mix No. 3x46
Guardrail connection to be Structural Steel, Spec. 3306
Finish all edges of rail and end post with 1/2" vee except where otherwise noted.
See superstructure sheet for joint spacing.
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



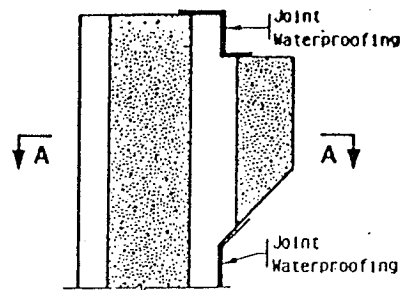
SECTION A-A



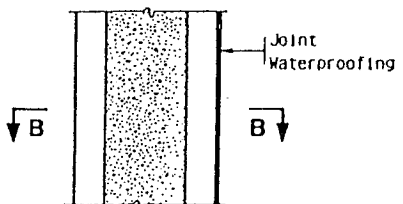
SECTION B-B



SECTION C-C

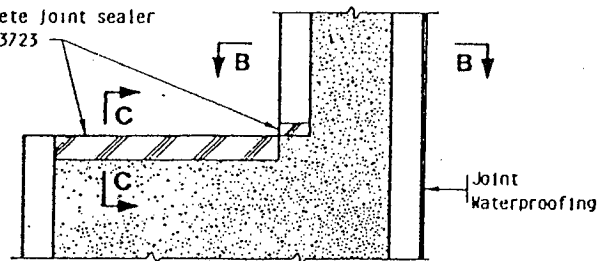


SECTION THRU PAVING BRACKET



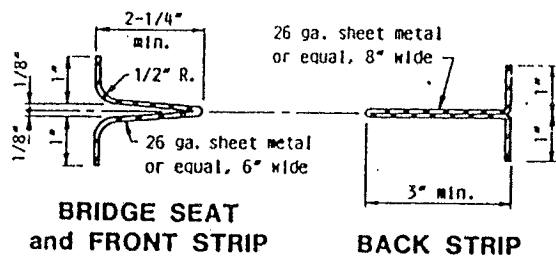
SECTION THRU WALL

Seal across bridge seat and 1" up face of abutment with concrete joint sealer per Spec. 3723



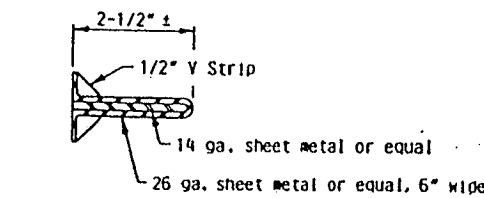
SECTION THRU BRIDGE SEAT

PART SECTION THRU ABUTMENT AT JOINT



BRIDGE SEAT and FRONT STRIP

BACK STRIP



ALTERNATE BRIDGE SEAT and FRONT STRIP

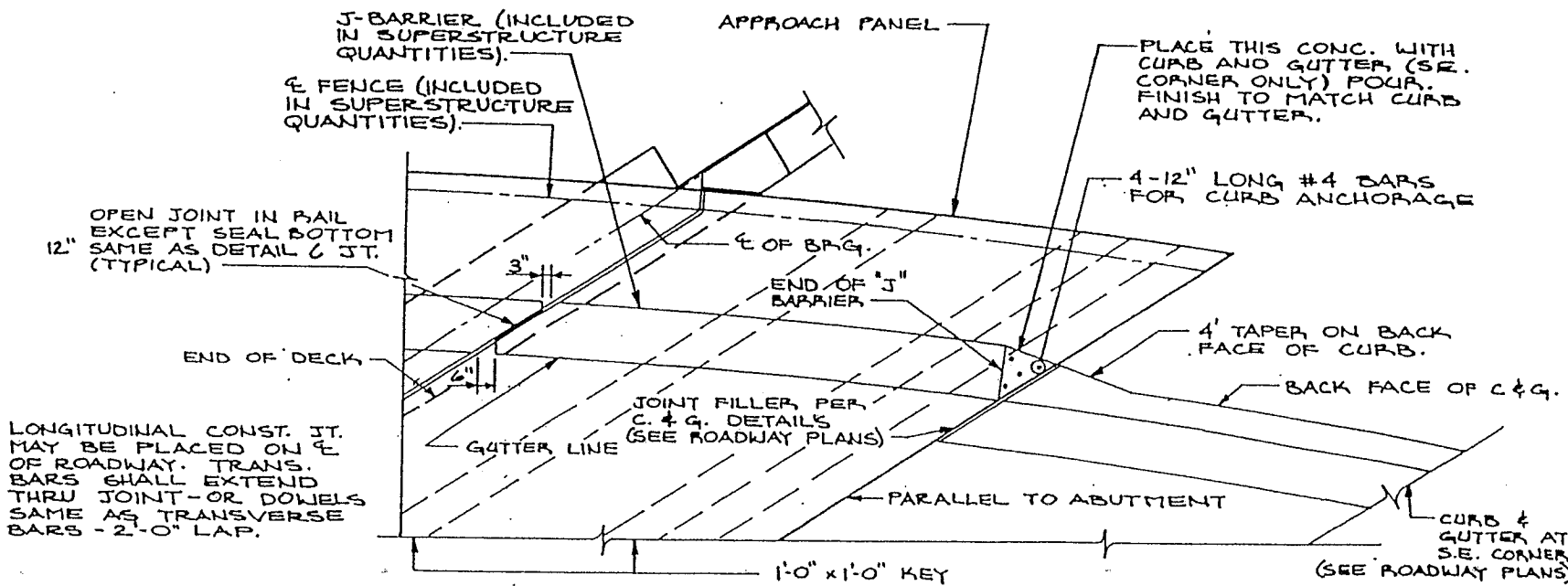
NOTES:

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.

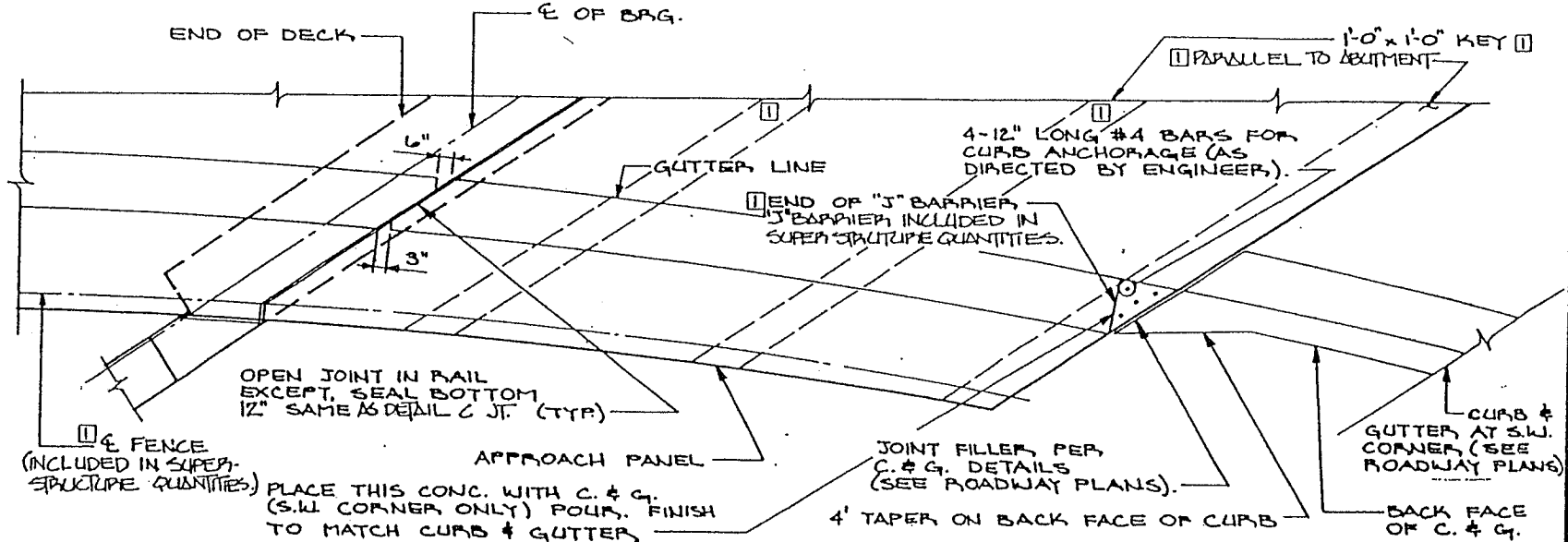
If the front and bridge seat strips are galvanized metal, they shall be securely fastened to the forms so that they will be removed with the forms. If a suitable plastic or other durable material, satisfactory to the Engineer, is used, the material may be left in place.

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.

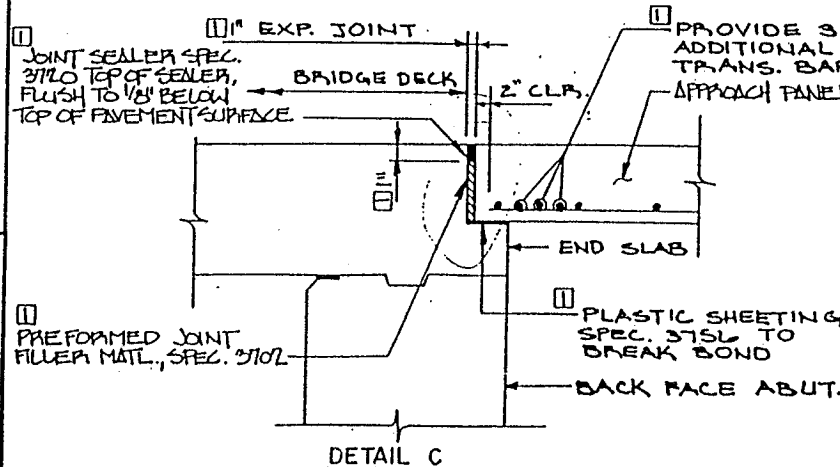
The cost of forming the joint shall be included in the price bid for other items.



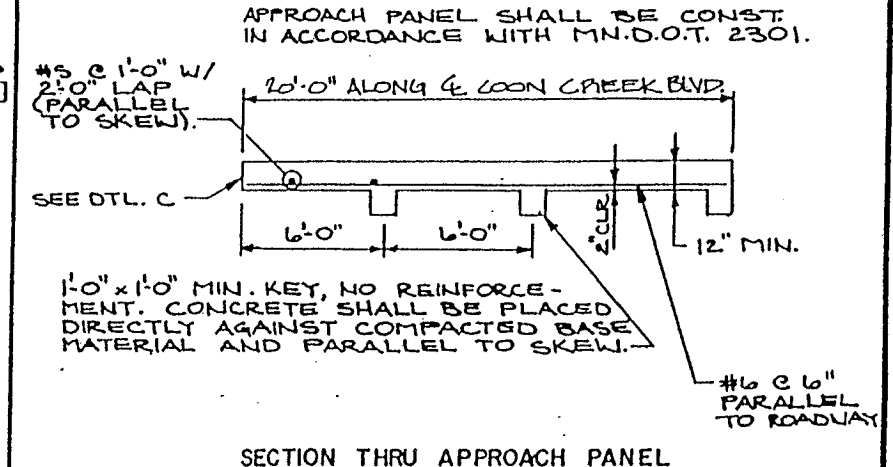
NW CORNER DETAIL SE CORNER SIMILAR



NE CORNER DETAIL SW CORNER SIMILAR



DETAIL C



SECTION THRU APPROACH PANEL

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
JL	2/11/00	ADDENDUM ADDED PLAN SHEET
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. Kiehl
DATE: 11/3/99 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

CONCRETE APPROACH PANEL

DETAILS

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

Bridge No. 02549
Sheet No. 52C of 539 Sheets

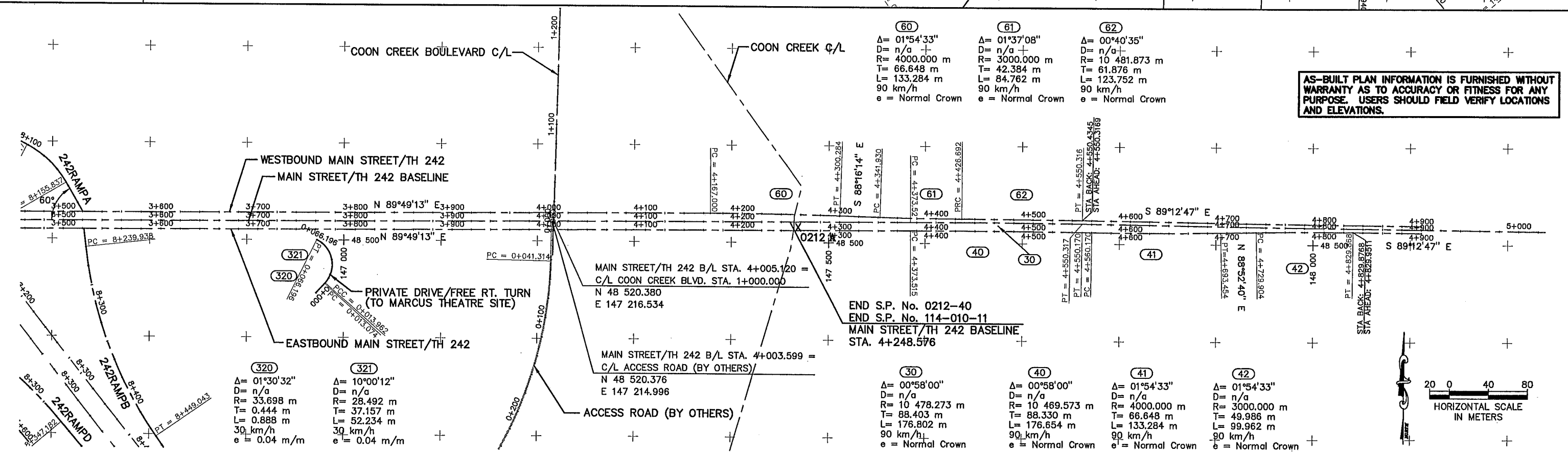
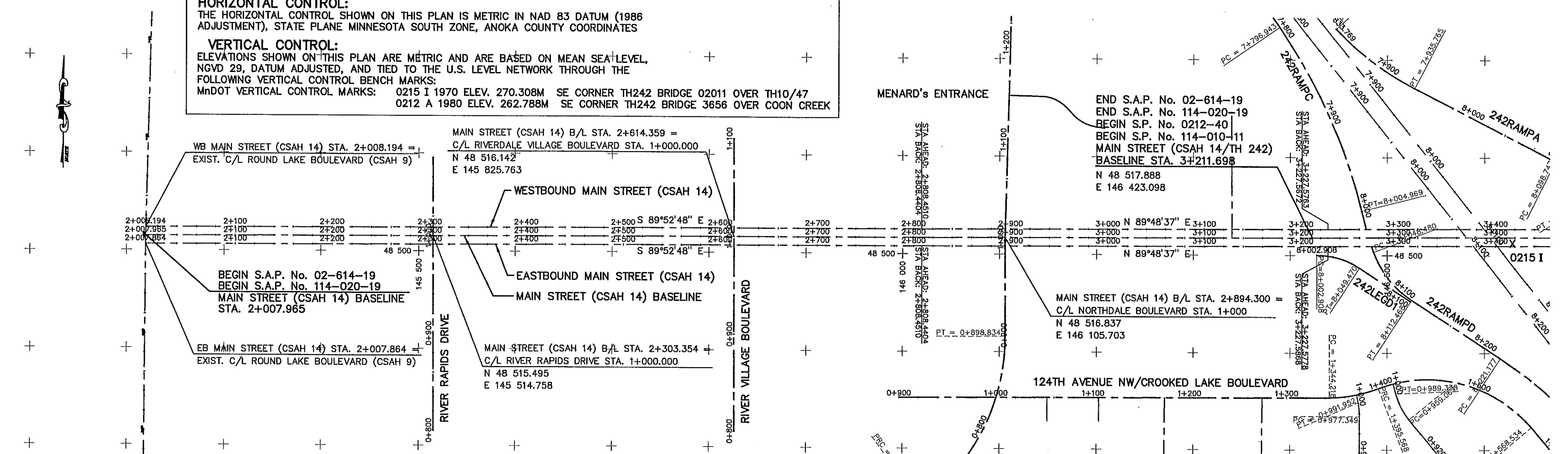
REVISIONS APRIL 15, 1988

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

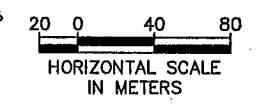
VERTICAL CONTROL:
 ELEVATIONS SHOWN ON THIS PLAN ARE METRIC AND ARE BASED ON MEAN SEA LEVEL, NGVD 29, DATUM ADJUSTED, AND TIED TO THE U.S. LEVEL NETWORK THROUGH THE FOLLOWING VERTICAL CONTROL BENCH MARKS:
 MNDOT VERTICAL CONTROL MARKS: 0215 I 1970 ELEV. 270.308M SE CORNER TH242 BRIDGE 02011 OVER TH10/47
 0212 A 1980 ELEV. 262.788M SE CORNER TH242 BRIDGE 3656 OVER COON CREEK

APBOX
 _ALNTXT
 _ALNTXT
 F2-GRID
 F2-AL1W
 F2E-AL1

PLOT DATE: Aug 11 2004 6:01pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\242\33889028.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED STATION FOR COON CREEK BLVD. MODIFIED NOTE FOR HORIZ. & 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
CHKD. BY: KPK/PDB	DWG. NAME: 242EALN1	
DATE: NOVEMBER 5, 1999		

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. Kiel

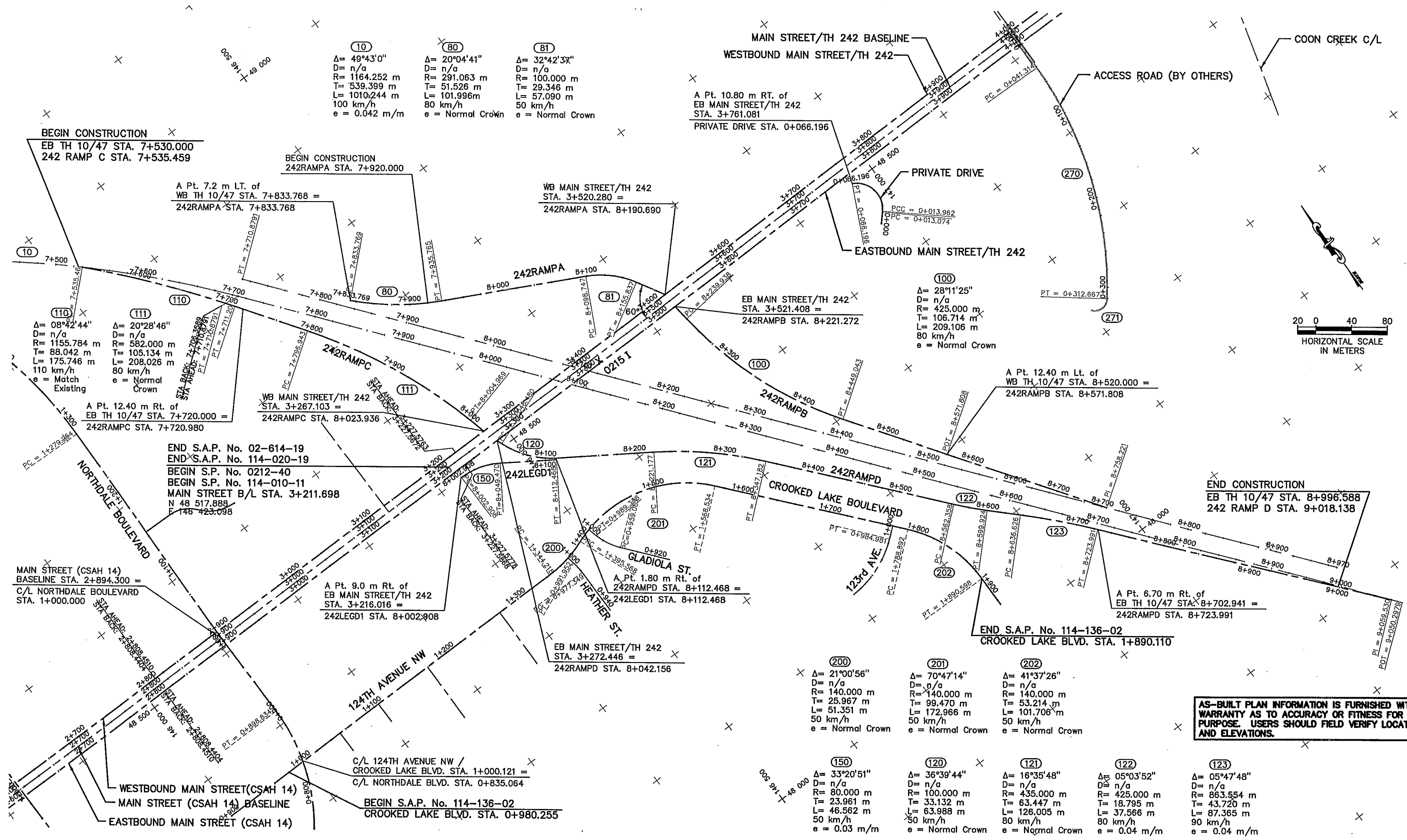
DATE: 11/5/99 MINN. REG. NO. 23211

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.P. 02 - 614 - 19
S.A.P.	02 - 618 - 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 OF 6
 SHEET NO. 113
 539

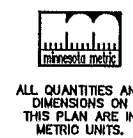
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 _ALNTXT
 _ALNTXT
 I2_GRID
 I2-ALIW
 I2E-
 PLOT DATE: Dec 22, 1999 6:28pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\TABS\242.dwg



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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
CHKD. BY: KPK/PDB	DWG. NAME: 242EALN2	DATE: NOVEMBER 5, 1999



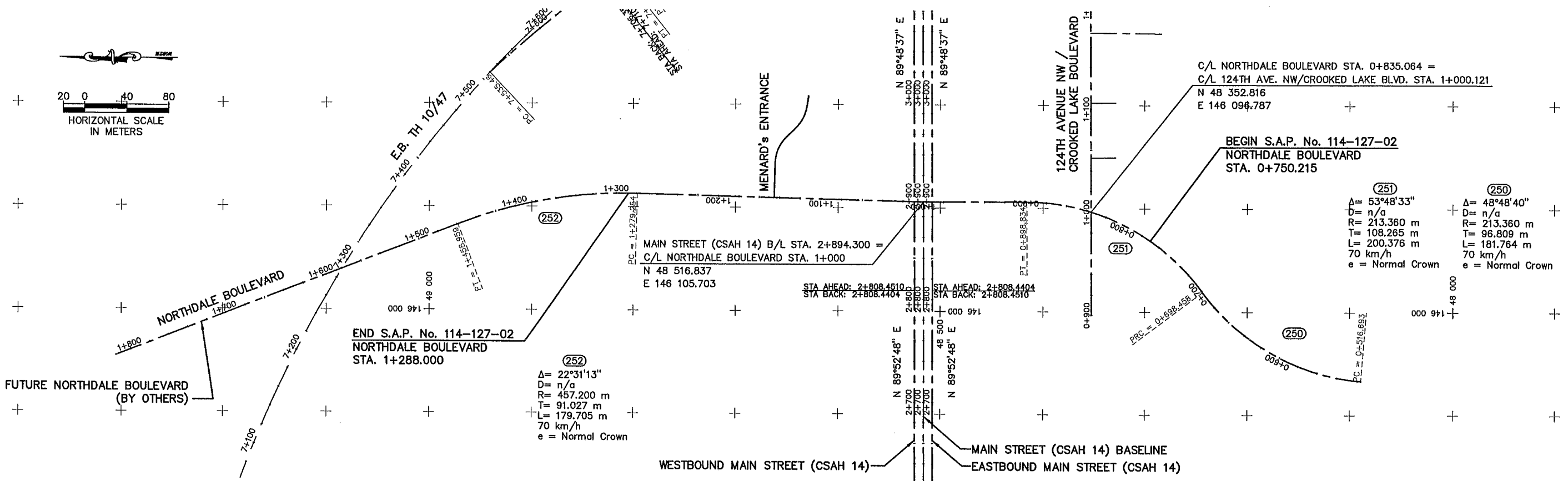
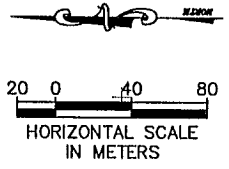
BRW
 GROUP
 A DAMES & MOORE GROUP COMPANY

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Kevin P. Kiel
 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)	SHEET NO.
S.A.P. 02 - 614 - 19	114
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

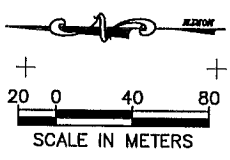
IPBOX
_ALNTXT
_ALNTXT
I2-GR1D
I2-AL1W
I2E-11



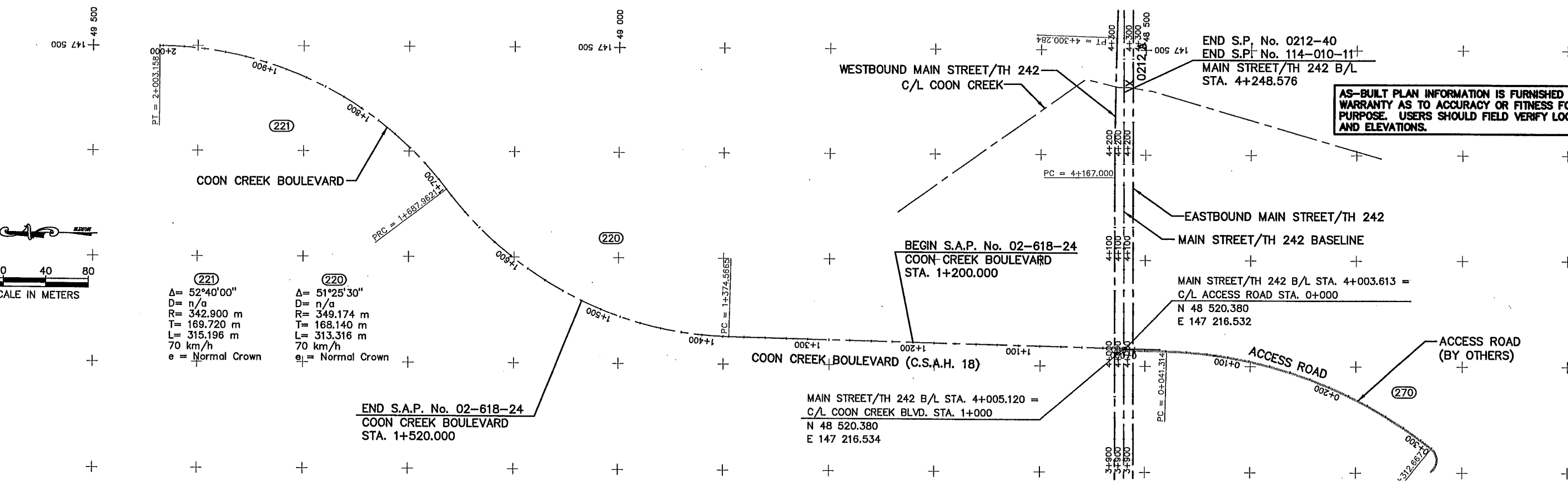
(251)	(250)
$\Delta = 53^{\circ}48'33''$	$\Delta = 48^{\circ}48'40''$
$D = n/a$	$D = n/a$
$R = 213.360 \text{ m}$	$R = 213.360 \text{ m}$
$T = 108.265 \text{ m}$	$T = 96.809 \text{ m}$
$L = 200.376 \text{ m}$	$L = 181.764 \text{ m}$
70 km/h	70 km/h
e = Normal Crown	e = Normal Crown

(252)
$\Delta = 22^{\circ}31'13''$
$D = n/a$
$R = 457.200 \text{ m}$
$T = 91.027 \text{ m}$
$L = 179.705 \text{ m}$
70 km/h
e = Normal Crown

PLOT DATE: Dec 2 1999 6:28pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\TABS\242.dwg



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



(221)
$\Delta = 52^{\circ}40'00''$
$D = n/a$
$R = 342.900 \text{ m}$
$T = 169.720 \text{ m}$
$L = 315.196 \text{ m}$
70 km/h
e = Normal Crown

(220)
$\Delta = 51^{\circ}25'30''$
$D = n/a$
$R = 349.174 \text{ m}$
$T = 168.140 \text{ m}$
$L = 313.316 \text{ m}$
70 km/h
e = Normal Crown

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

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
CHKD. BY: KPK/PDB	DWG. NAME: 242EALN6
DATE: NOVEMBER 5, 1999	



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Kevin P. Kiel

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

3 OF 6
SHEET NO.
115
539

ALIGNMENT TABULATION

CURVE NO.	POINT NO.	POINT TYPE	STATION (km)	NOTES	CURVE DATA				COORDINATES		AZIMUTH
					DELTA	R (m)	T (m)	L (m)	NORTH	EAST	
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											
(10)	1	PI	6+696.114						49 252.089	145 475.742	91-54-58
	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	

PLOT DATE: Jan 21, 2000 11:09am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\TABS\242\main3.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	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: IKR	DESIGN BY: KPK
CHKD. BY: KPK/PDB	DWG. NAME: 242EALN3	
DATE: NOVEMBER 5, 1999		

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

Kevin P. Kiel

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

ALIGNMENT TABULATION

CURVE NO.	POINT NO.	POINT TYPE	STATION (km)	NOTES	CURVE DATA				COORDINATES		AZIMUTH
					DELTA	R (m)	T (m)	L (m)	NORTH	EAST	
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
(100)	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	
	102	PI	8+346.652						48 385.554	146 746.730	145-26-48
	103	PC	8+239.938						48 491.611	146 734.904	173-38-13
	104	RP			28°11'25"	425.000	106.714	209.106	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
(110)	111	PI	7+623.501						48 876.855	146 290.105	145-26-48
	110	PC	7+535.458						48 940.966	146 229.762	136-44-04
	112	RP			08°42'44"	1155.784	88.042	175.746	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
(111)	115	PI	7+902.078						48 647.140	146 448.298	165-55-34
	116	PC	7+796.943						48 733.728	146 388.669	145-26-48
	117	RP			20°28'46"	582.000	105.134	208.026	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
(120)	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
	123	PI	8+081.612						48 472.347	146 497.484	123-09-29
	124	PC	8+048.480						48 503.445	146 486.055	159-49-13
	125	RP			36°39'44"	100.000	33.132	63.988	48 537.942	146 579.916	
(121)	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
	127	PI	8+284.624						48 360.064	146 669.345	139-45-17
	128	PC	8+221.177						48 394.766	146 616.230	123-09-29
	129	RP			16°35'48"	435.000	63.447	126.005	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						48 147.396	146 849.352	139-45-17
	133	RP			05°03'52"	425.000	18.795	37.566	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						48 094.020	146 900.949	134-41-25
	137	RP			05°47'48"	863.554	43.720	87.365	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
(150)	161	PI	8+026.869						48 500.281	146 451.437	123-09-29
	162	PC	8+002.908						48 500.202	146 427.476	89-48-37
	163	RP			33°20'51"	80.000	23.961	46.562	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
(220)	221	PI	1+374.566						48 894.832	147 225.804	01-25-15
	222	PC	1+542.706						49 062.920	147 229.974	52-50-45
	223	RP	1+374.566						48 894.832	147 225.804	01-25-15
	224	PT	1+687.962						48 886.174	147 574.871	
(221)	225	PI	1+857.682						49 164.469	147 363.984	52-50-45
	226	PC	1+687.962						49 266.974	147 499.253	0-10-45
	227	RP			52°40'00"	342.900	169.720	315.196	49 164.469	147 363.984	
	228	PT	2+003.158						49 437.766	147 156.884	
	229	PI							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
(270)	271	PI	0+181.945						48 338.808	147 210.487	218-32-48
	272	PC	0+041.314						48 479.396	147 213.978	181-25-21
	273	RP			37°07'26"	418.796	140.631	271.353	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						48 228.820	147 122.852	
	277	RP			103°04'29"	13.716	17.266	24.675	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
CHKD. BY: KPK/PDB	DWG. NAME: 242EALN4	
DATE: NOVEMBER 5, 1999		

XREF DRAWINGS



BRW
A DAMES & MOORE GROUP COMPANY

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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. Kiehl

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

5 OF 6

SHEET NO.
117

539

ALIGNMENT TABULATION

CURVE NO.	POINT NO.	POINT TYPE	STATION (km)	NOTES	CURVE DATA				COORDINATES		AZIMUTH
					DELTA	R (m)	T (m)	L (m)	NORTH	EAST	
NORTHDALE BOULEVARD											
(250)	250	PI	0+516.693						48 089.300	145 933.176	04-48-30
	251	PI	0+613.502						48 185.768	145 941.292	53-37-10
	252	PC	0+516.693						48 089.230	145 933.176	53-37-10
(251)	253	RP			48°48'40"	213.360	96.809	181.764	48 071.414	146 145.786	
	254	PT	0+698.458						48 243.190	146 019.232	53-37-10
	255	PI	0+806.722						48 307.406	146 106.396	359-48-37
	256	PC	0+698.458						48 243.190	146 019.232	359-48-37
	257	RP			53°48'33"	213.360	108.265	200.376	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
(252)	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
	261	PI	1+370.282						48 886.994	146 115.306	338-57-56
	262	PC	1+279.254						48 795.997	146 112.946	338-57-56
	263	RP			22°31'13"	457.200	91.027	179.705	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)	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
	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
(201)	204	RP							48 493.972	146 440.410	
	205	PT	1+395.568						48 363.454	146 491.056	68-47-30
	206	PI	1+495.038						48 399.439	146 583.789	139-34-44
(202)	207	PC	1+395.568						48 363.454	146 491.056	68-47-30
	208	RP			70°47'14"	140.000	99.470	172.966	48 232.937	146 541.703	
	209	PT	1+568.534						48 323.712	146 648.285	139-34-44
	210	PI	1+842.106						48 115.442	146 825.668	181-12-10
	211	PC	1+788.892						48 155.955	146 791.164	139-34-44
	212	RP			41°37'26"	140.000	53.214	101.706	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)	320	PI	0+925.242						48 282.388	146 471.648	0-15-17
	321	PI	0+984.677						48 341.823	146 471.912	348-18-09
	322	PC	0+977.349						48 334.496	146 471.879	0-15-17
	323	RP			11°57'08"	70.000	7.328	14.602	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)	340	PI	0+902.994						48 287.989	146 558.309	320-37-33
	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)	300	PI	0+910.107						48 133.636	146 699.554	88-08-05
	301	PI	0+948.942						48 134.900	146 738.368	50-36-35
	302	PC	0+910.107						48 133.636	146 699.554	88-08-05
	303	RP			37°31'31"	114.322	38.834	74.874	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)	320	PI	0+000.000						48445.435	146971.856	42-25-24
	321	PI	0+013.074						48455.086	146980.676	42-52-38
	322	PI	0+013.518						48455.412	146980.978	41-22-06
	323	PC	0+013.074						48455.086	146980.676	41-22-06
	324	RP			01°30'32"	33.698	0.444	0.888	48478.016	146955.982	
(321)	325	PT	0+013.962						48455.744	146981.272	
	326	PI	0+013.962						48455.744	146981.272	
	327	PI	0+051.119						48455.744	146981.272	296-20-56
	328	PC	0+013.962						48483.622	147005.838	
	329	RP			10°0'12"	28.492	37.157	52.234	48455.744	146981.272	296-20-56
	330	PT	0+066.196						48474.582	146959.894	
	331	PI	0+066.196	= EB MAIN STREET STA. 3+761.081, 10.80 m RT.					48500.114	146972.540	
								48500.114	146972.540		

PLOT DATE: Jan 21, 2000 11:10am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\ABS\242\242.dwg

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: PKP	DESIGN BY: PKP
CHKD. BY: KPK/PDB	DWG. NAME: 242EALNS	DATE: NOVEMBER 5, 1999

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. Kiehl

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

6 OF 6

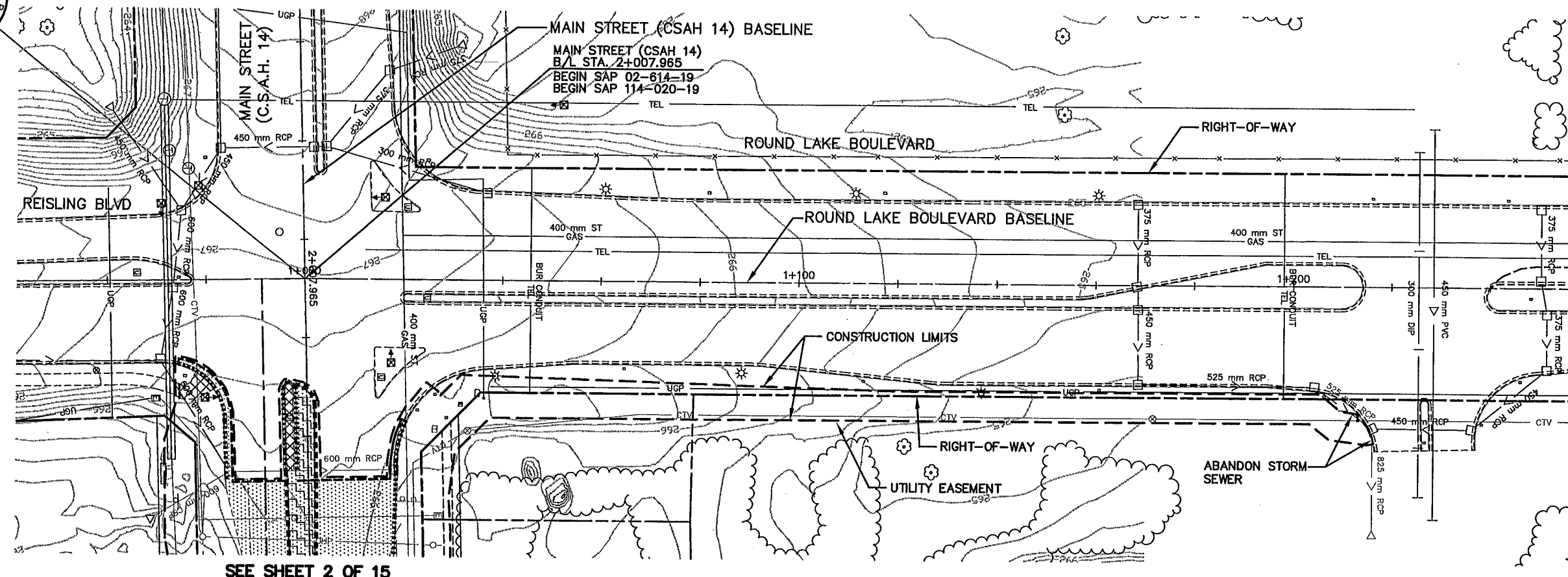
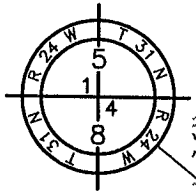
SHEET NO. 118

539

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12CLM-W
 12MW-HAT
 12-ALIW
 12MHVEG
 12MHFCN
 12
 12E-AL
 12-ESUM
 12-EUT
 12MHETO

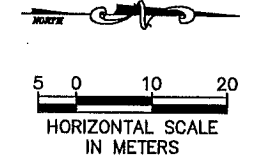
PLOT DATE: Jan 13, 2000 10:55am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH\XONDRE01.dwg



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



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 STREET NAME TO BEGIN STA.
2	TSR	2/27/04	DELETED NOTE REF. REMOVE STORM PIPE 1+216, RT. AS-BUILT DRAWING

DESIGN FILE:
 33889028
 DRAWN BY:
 PJM/JRJ
 DESIGN BY:
 JJJ
 CHECKED BY:
 PBD/KPK
 DWG. NAME:
 RONDRE01
 DATE:
 NOVEMBER 5, 1999



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

BRW
 A DAMES & MOORE GROUP COMPANY
 THRESHOLD 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

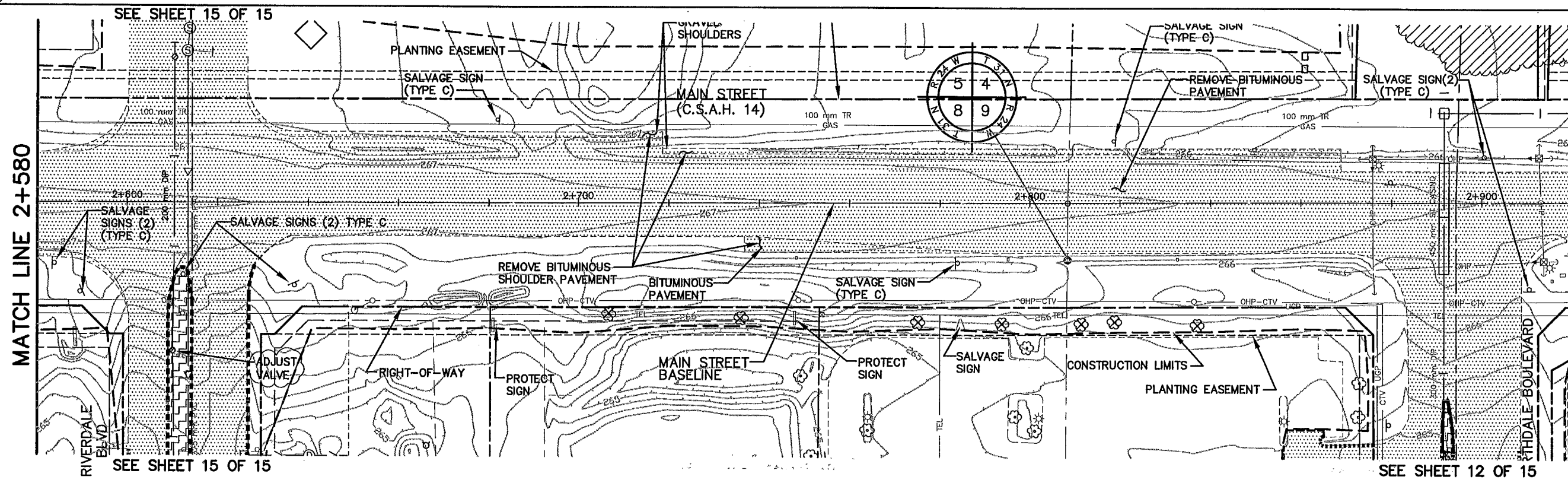
MAIN STREET/T.H. 242 RECONSTRUCTION
ROUND LAKE BOULEVARD (CSAH 9)
 EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
 STATION 1+000.000 TO STATION 1+255.000
 CITY PROJECT 98-20

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

1 OF 15
 SHEET NO. 119
 539

10X
V-HAT
GRID
HECN
LM-W
ALW
ESUM
IHVEG
IHETO
EU

PLOT DATE: Apr 07 2004 3:23pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S\m\c\NGRNG\242r02.dwg

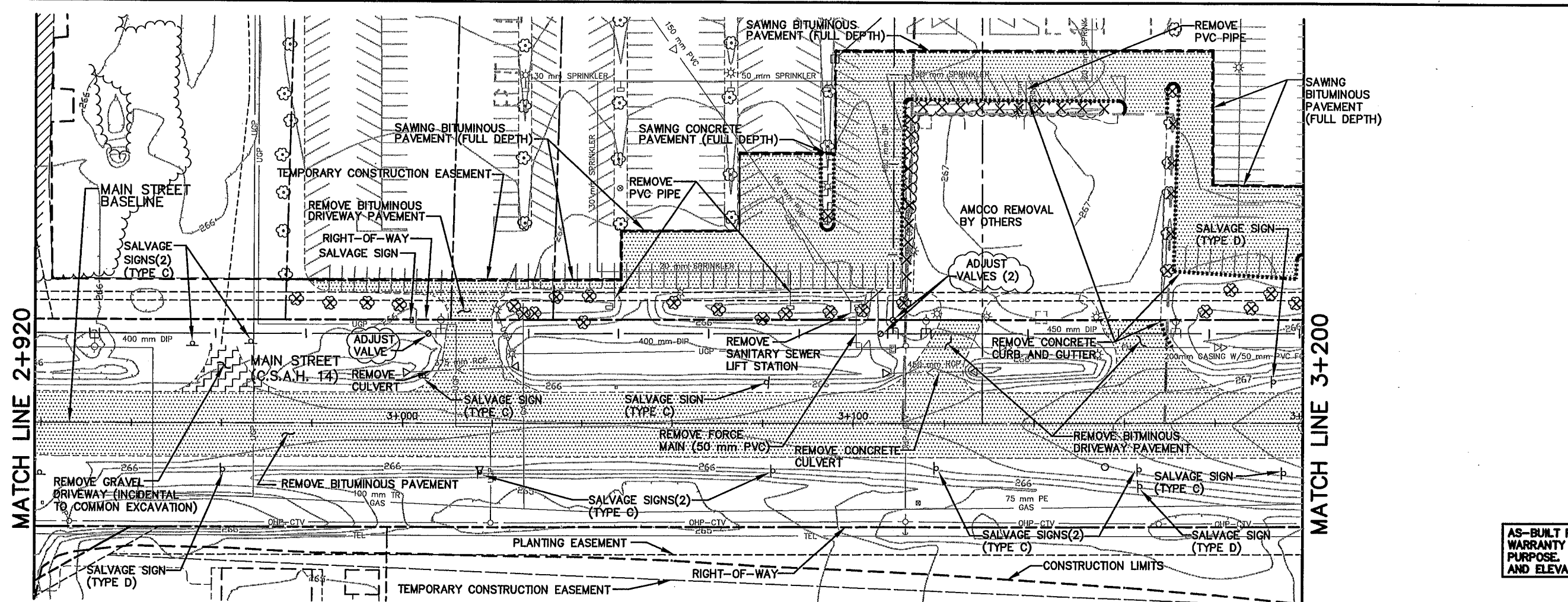


LEGEND

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE WALK OR MEDIAN REMOVAL
- TREE REMOVAL
- GRAVEL REMOVAL
- CONSTRUCTION LIMITS
- SILT FENCE
- CONCRETE CURB AND GUTTER REMOVAL
- BITUMINOUS CURB REMOVAL

HORIZONTAL SCALE IN METERS

0 10 20



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JKR	12/30/99	ADDED HATCH FOR GRAVEL D/W REMOVAL
2	JKR	1/8/00	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:
JUL

CHKD. BY:
PBD/KPK

DWG. NAME:
242R02

DATE:
NOVEMBER 5, 1999



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Kevin P. Kullb

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

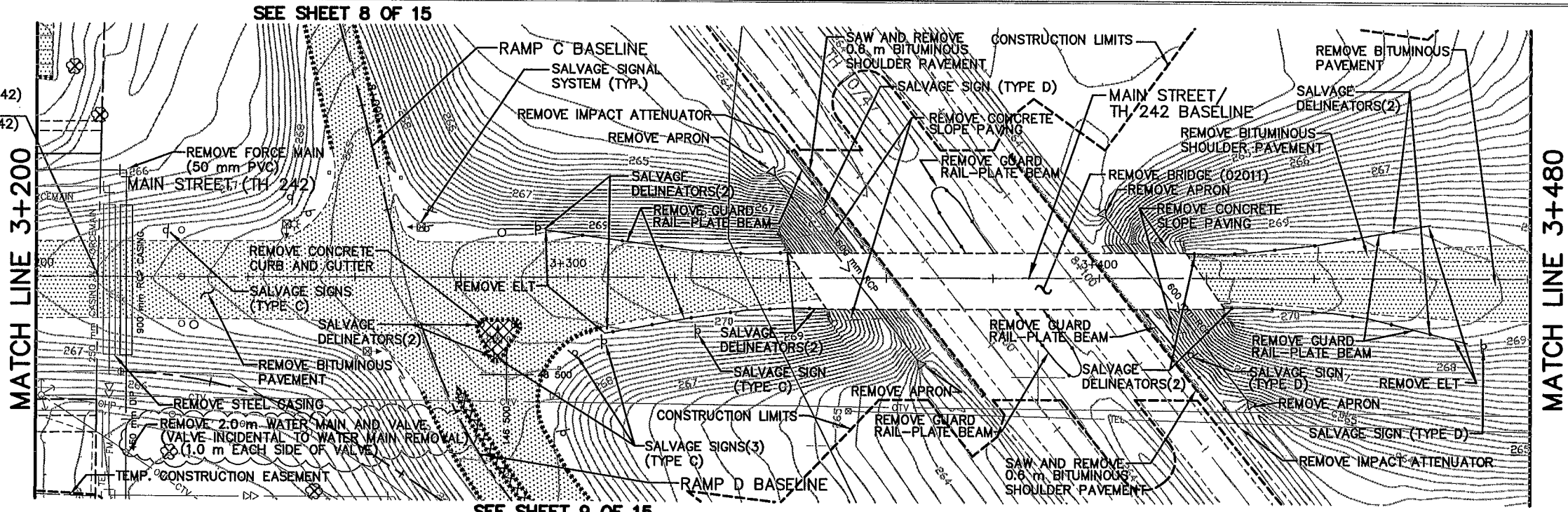
3 OF 15

SHEET NO.
121

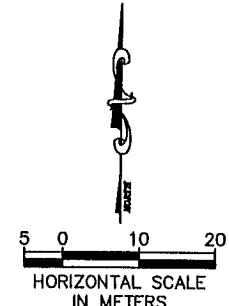
539

12-GRID
 12-AL1
 12-HATCH
 12-MHVEG
 12-UT
 12-MHETO

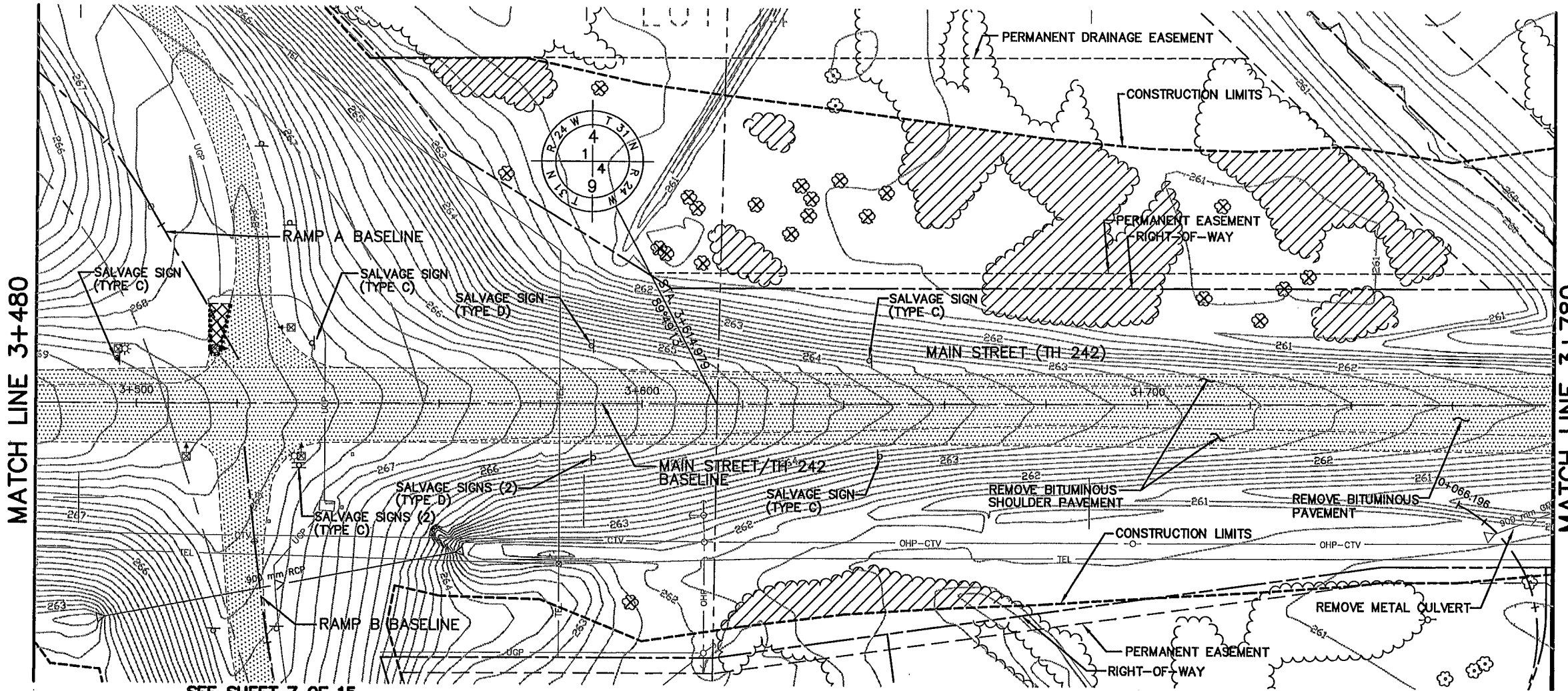
END SAP 02-614-19
 END SAP 114-020-19
 BEGIN SP 0212-40 (TH242=242)
 BEGIN SP 114-010-11
 MAIN STREET (CSAH 14/TH 242)
 STA. 3+211.698



- 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



SEE SHEET 6 OF 15



SEE SHEET 7 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	J.L.	7/5/00	MOD. REQ. #36: REVISED MENARDS, REMOVED WALL
3	B.K.	7/20/00	MOD. REQ. #11: ADDED UTILITY ADJUSTMENTS
4	PMJ	8/04/00	MOD. REQ. #53: SAW & BIT REMOVAL BENEATH BRIDGE
5	J.L.	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:
 P.J.M./J.R.J.
 DESIGN BY:
 J.J.L.
 CHKED. BY:
 P.B.D./K.P.K.
 DWG. NAME:
 242ERE01
 DATE:
 NOVEMBER 5, 1999



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Kevin P. Kullb
 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

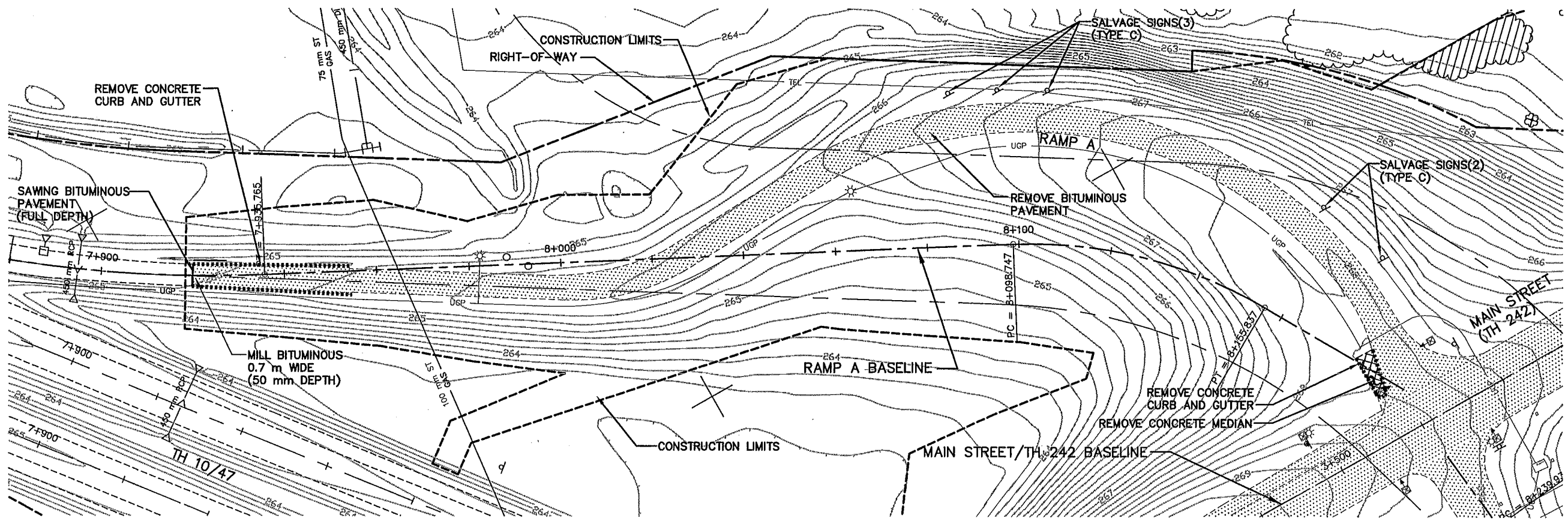
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02-614-19
 S.A.P. 02-618-24
 S.P. 114-010-11
 S.A.P. 114-020-19
 S.A.P. 114-136-02
 S.A.P. 114-127-02

4 OF 15
 SHEET NO.
 122
 539

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PLOT DATE: Aug 1 04 4:55pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-S\2ere01.dwg

- 1-PBOX
- 2E-AL1
- 1-HATCH
- 2-MHECN
- 2-GRID
- HPLAN
- 2E- M
- 2-
- 2-MHVEG
- 2-MHETO



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

SEE SHEET 4 OF 15

SEE SHEET 4 OF 15

SEE SHEET 7 OF 15

PLOT DATE: Dec 2 9 2:59pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH-ere04.dwg

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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: JUL
CHKD. BY: PBD/KPK	DWG. NAME: 242ERE04
DATE: NOVEMBER 5, 1999	



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

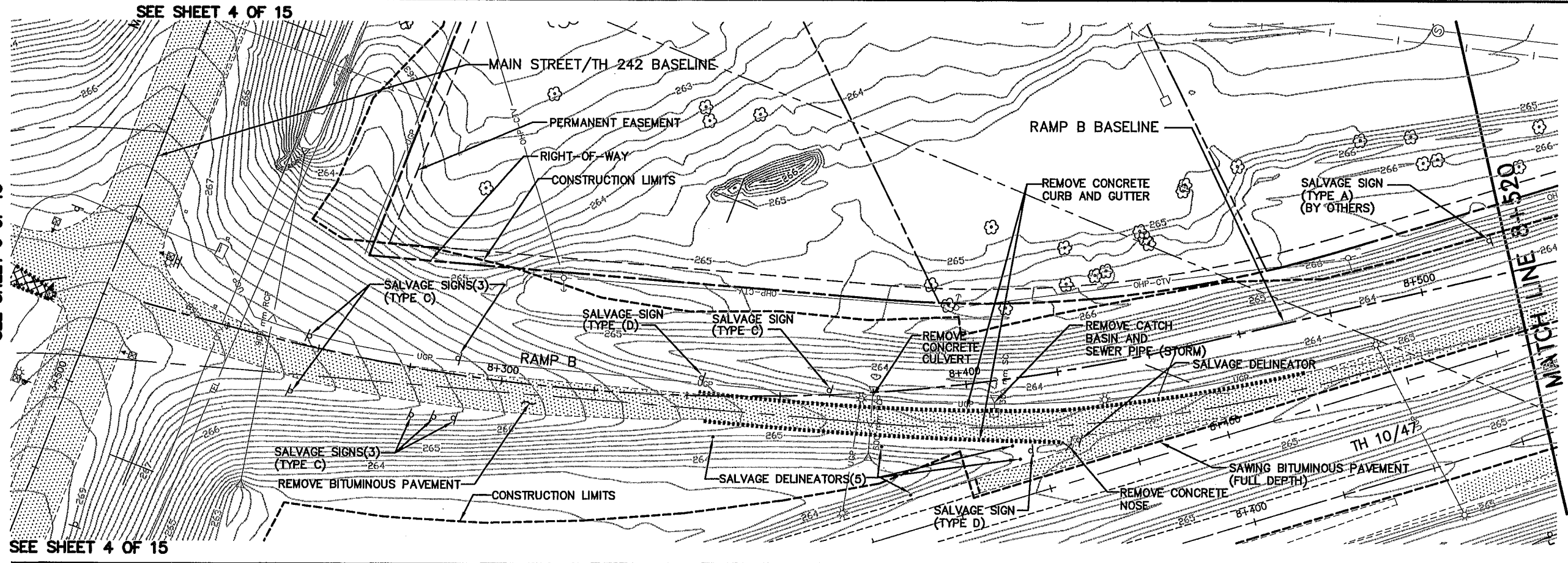
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
EXISTING TOPOGRAPHY, UTILITIES and REMOVALS
STATION 7+920.000 TO STATION 8+016.519

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	124
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

- APBOX
- 42E-ALI
- M-HATCH
- 42-EUT
- 42MHECN
- 42-CPID
- 42
- 42
- 42MHVEG
- 42MHETO

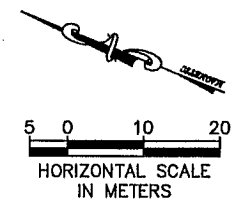
SEE SHEET 6 OF 15



SEE SHEET 4 OF 15

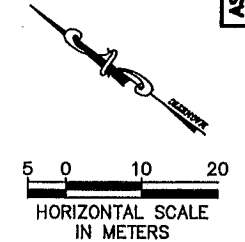
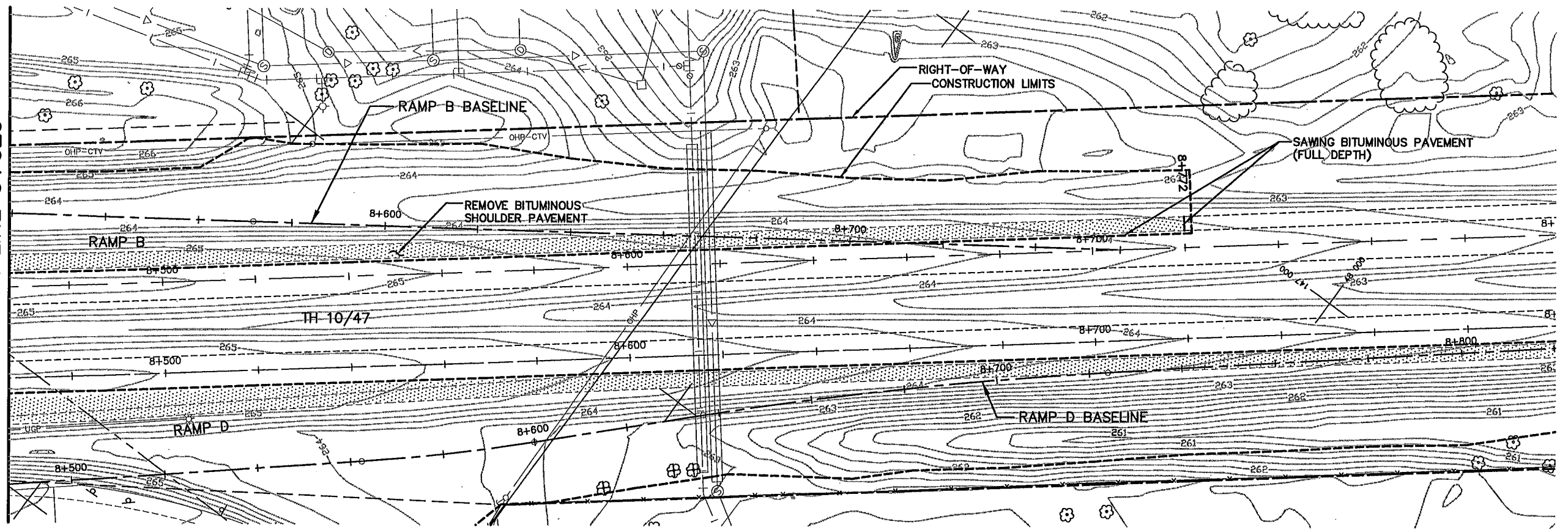
LEGEND

	BITUMINOUS PAVEMENT REMOVAL
	CONCRETE WALK OR MEDIAN REMOVAL
	TREE REMOVAL
	GRAVEL REMOVAL
	CONSTRUCTION LIMITS
	SILT FENCE
	CONCRETE CURB AND GUTTER REMOVAL
	BITUMINOUS CURB REMOVAL



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MATCH LINE 8+520



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: JUL
CHKD. BY: PBD/KPK	DWG. NAME: 242ERE05
DATE: NOVEMBER 5, 1999	



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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Kevin P. Kull

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

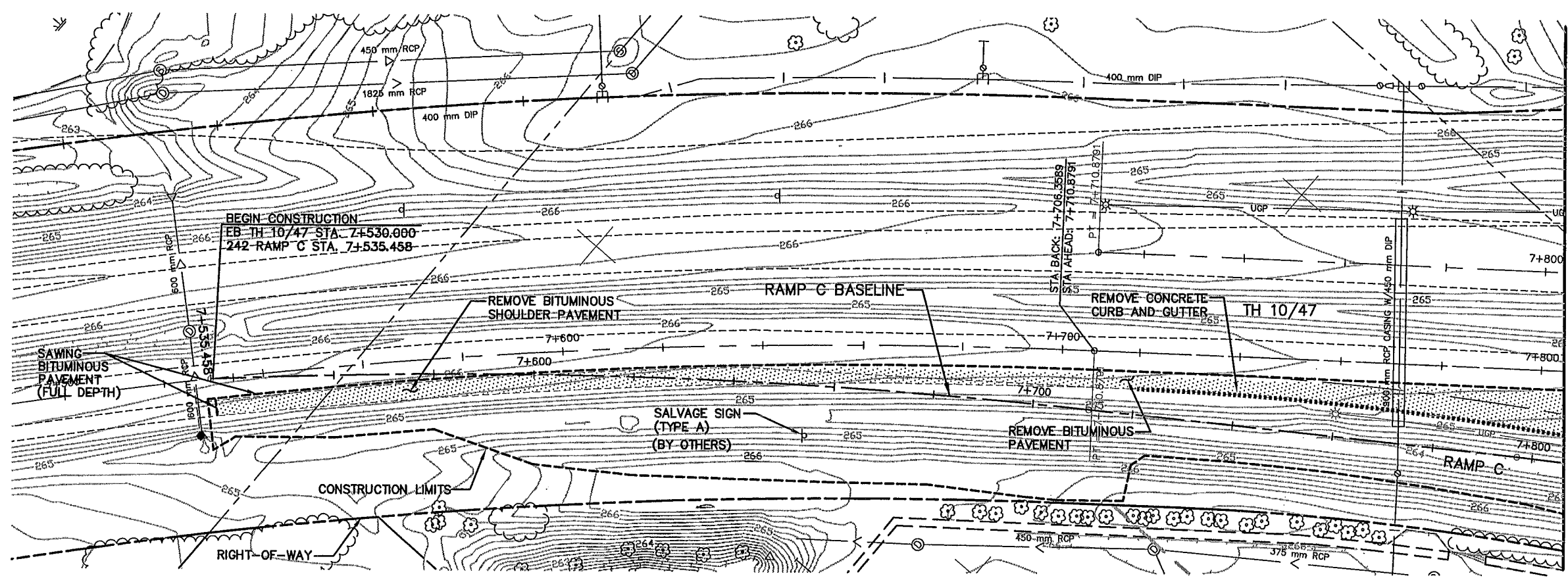
S.P. 0212-40 (T.H.242=242)	
S.A.P. 02 - 614 - 19	
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 138 - 02	
S.A.P. 114 - 127 - 02	

SHEET NO.
125

539

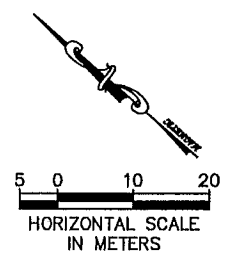
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REF. DRAWINGS
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 12E-CLM
 12-FGIM
 12
 12
 12MHC10

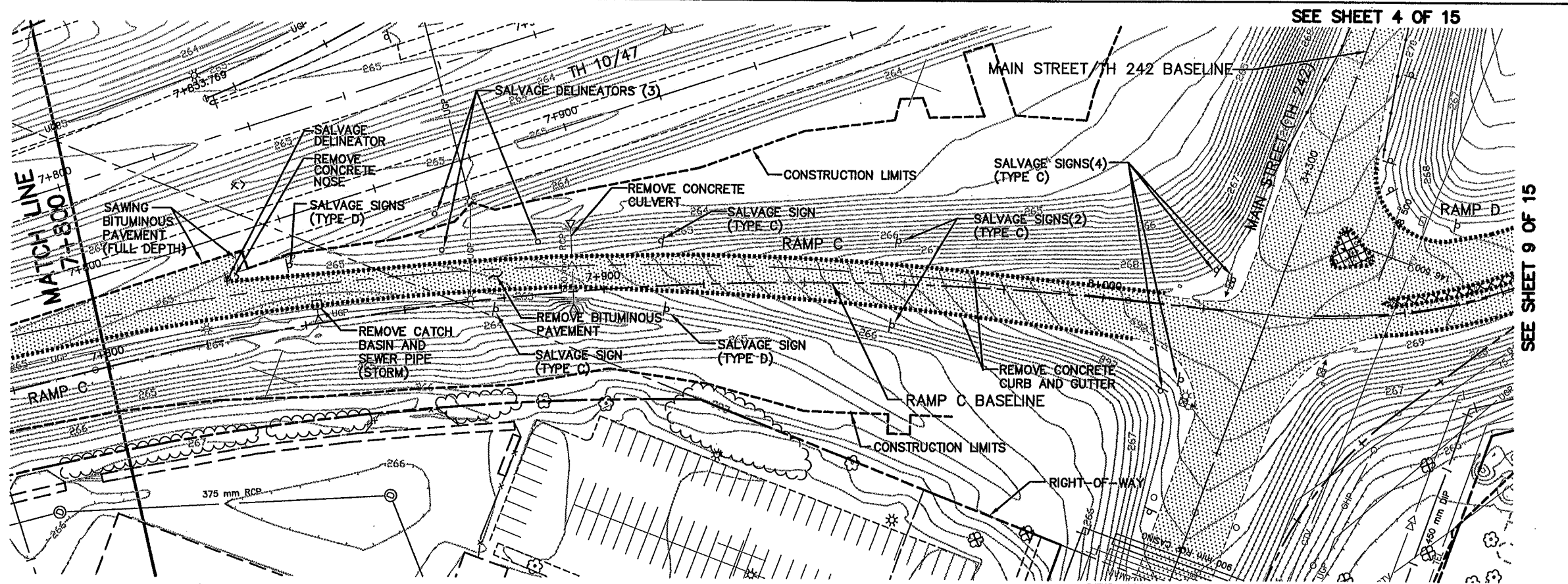


MATCH LINE 7+800

- 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

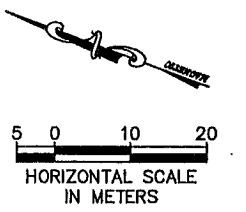


PLOT DATE: Jan 0 3:12pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH 2ere06.dwg



SEE SHEET 4 OF 15

SEE SHEET 9 OF 15



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO S.P. No. 8 FOR RAMP C REVISED RAMP C BEGIN STA.
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	
DRAWN BY: PJM	DESIGN BY: JUL
CHECKED BY: PBD/KPK	DWG. NAME: 242ERE06
DATE: NOVEMBER 5, 1999	

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Kevin P. Kullb

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

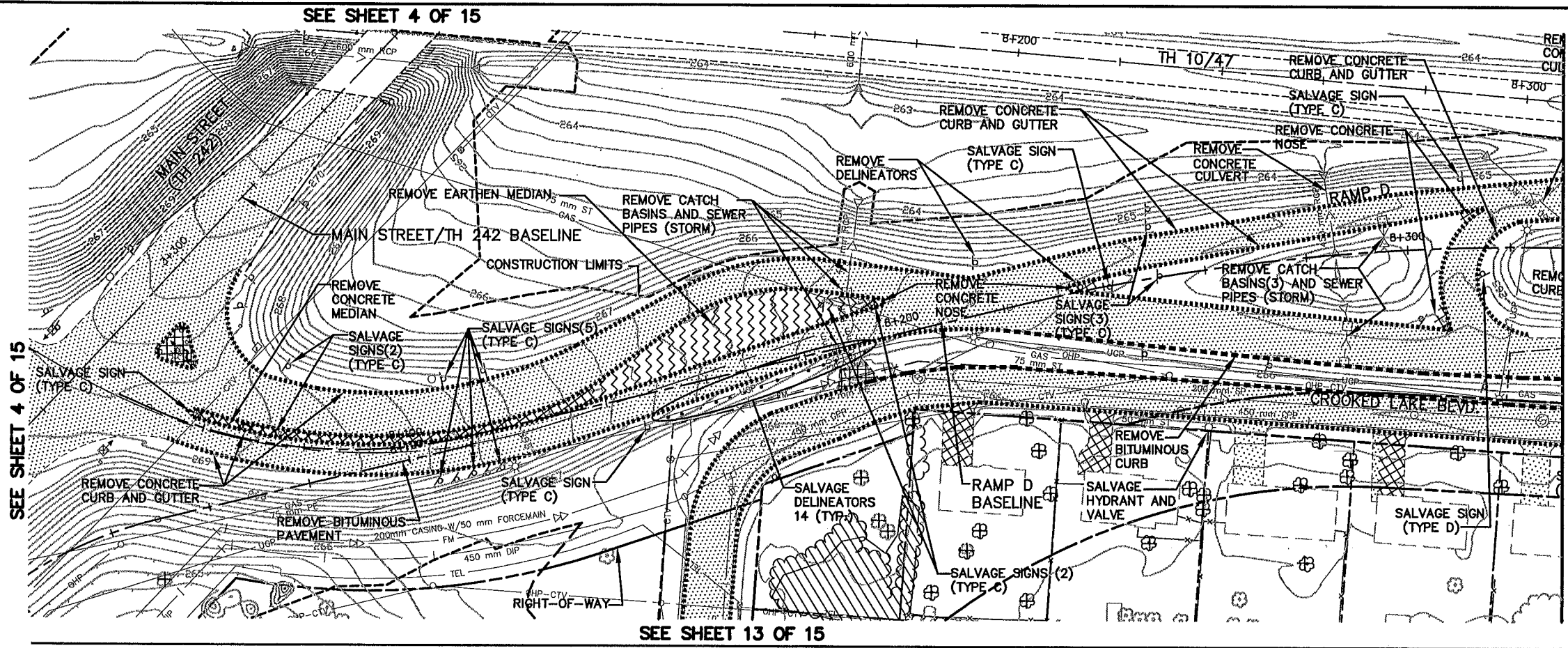
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	126
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	

8 OF 15

539

2CLM-W
2 GRID
PBOX
2E-ALI
2-EUT
1VW-4AT
1-
2N
2-LSUM
2MHVEG
2MHETO
2E-CLM

PLOT DATE: Jul 15 0 12:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-S\2ere07.dwg

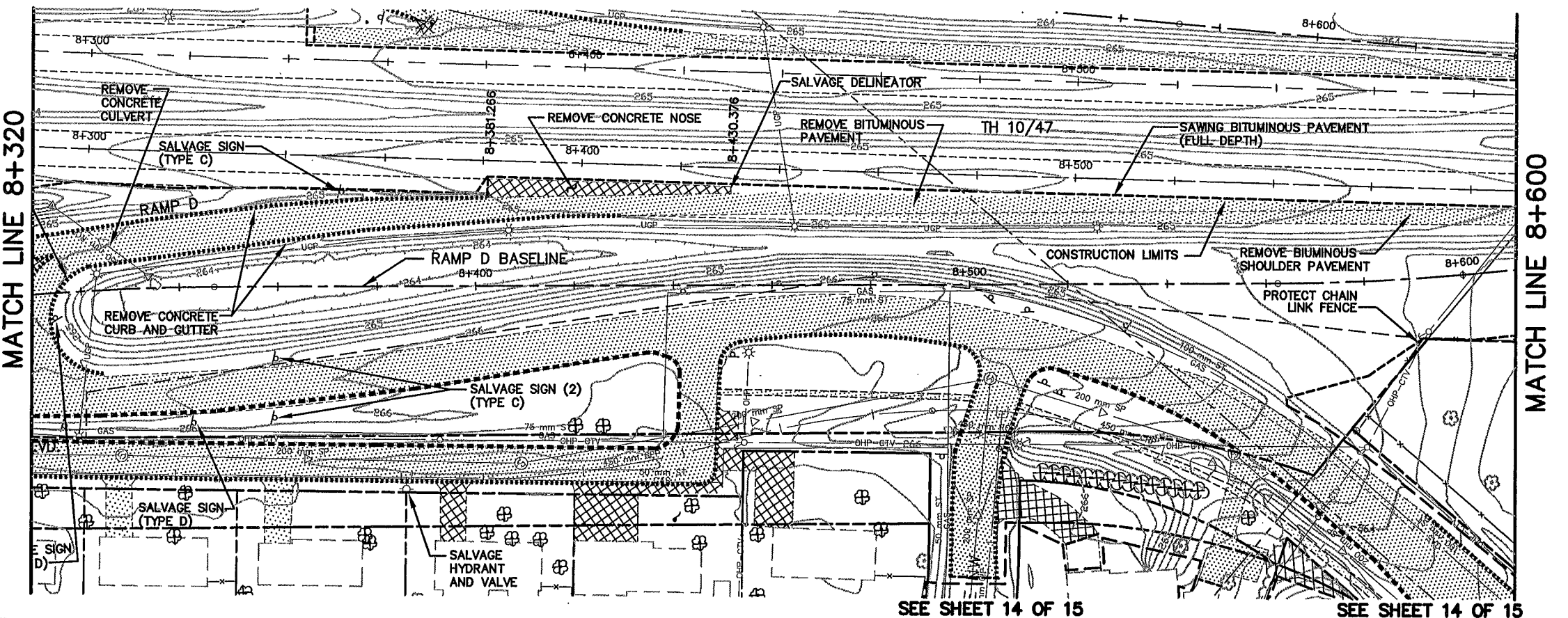
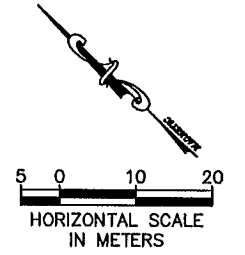
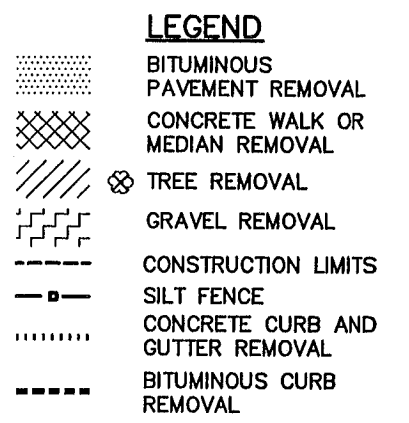


SEE SHEET 4 OF 15

SEE SHEET 4 OF 15

SEE SHEET 13 OF 15

MATCH LINE 8+320



MATCH LINE 8+320

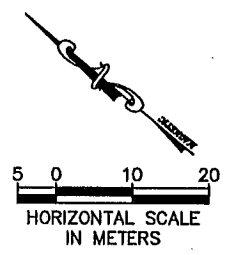
MATCH LINE 8+600

SEE SHEET 14 OF 15

SEE SHEET 14 OF 15

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



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

DESIGN FILE: 33889028	DESIGN BY: JUL
DRAWN BY: PJM	CHKD. BY: PBD/KPK
DWG. NAME: 242ERE07	DATE: NOVEMBER 5, 1999

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Kevin P. Kullb
DATE: 11/9/99 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

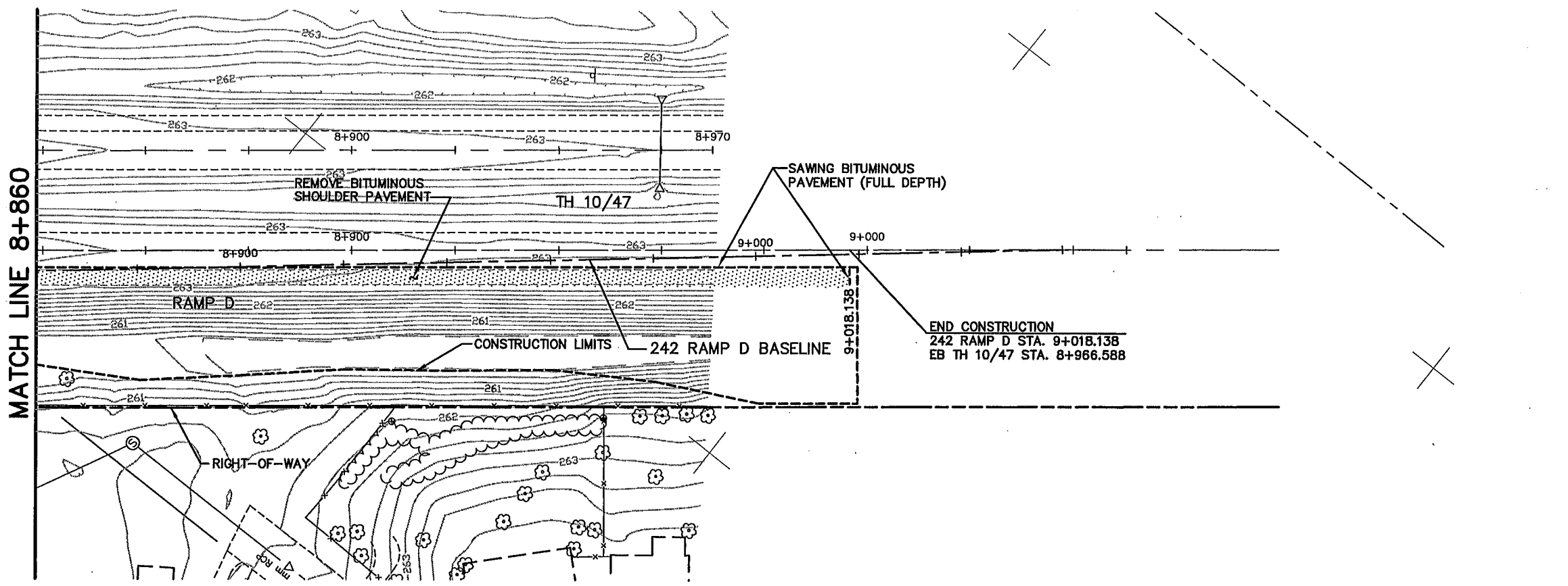
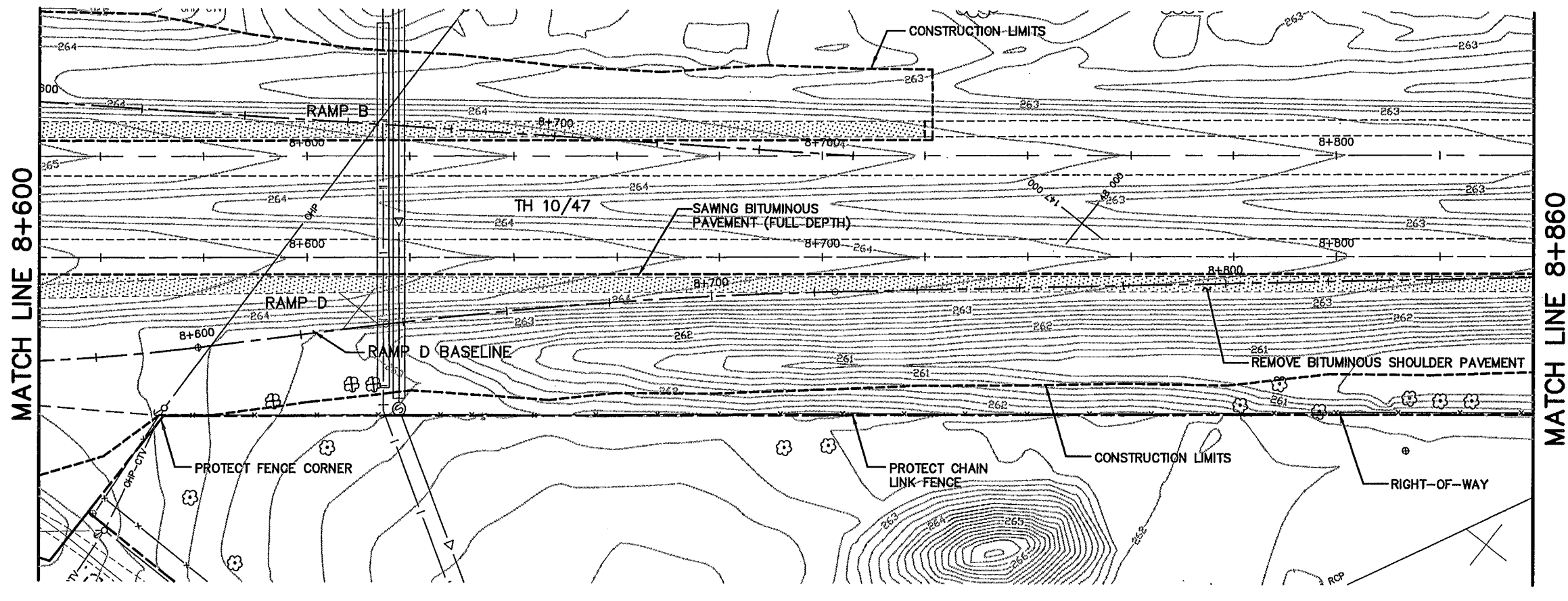
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	127
S.A.P. 02 - 618 - 24	
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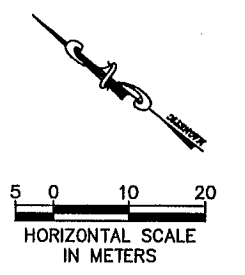
9 OF 15
539

MP DRAWINGS
 APBOX
 12E-ALI
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 12_GRID
 12E-CLM
 12-ESUM
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 12m .0

PLOT DATE: Dec 2 1999 3:23pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-ST-42ere08.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



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO S.P. No. FOR RAMP D
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: PJM/IKR	DESIGN BY: JUL
CHKD. BY: PBD/KPK	DWG. NAME: 242ERE08	
DATE: NOVEMBER 5, 1999		

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. Kuelb

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

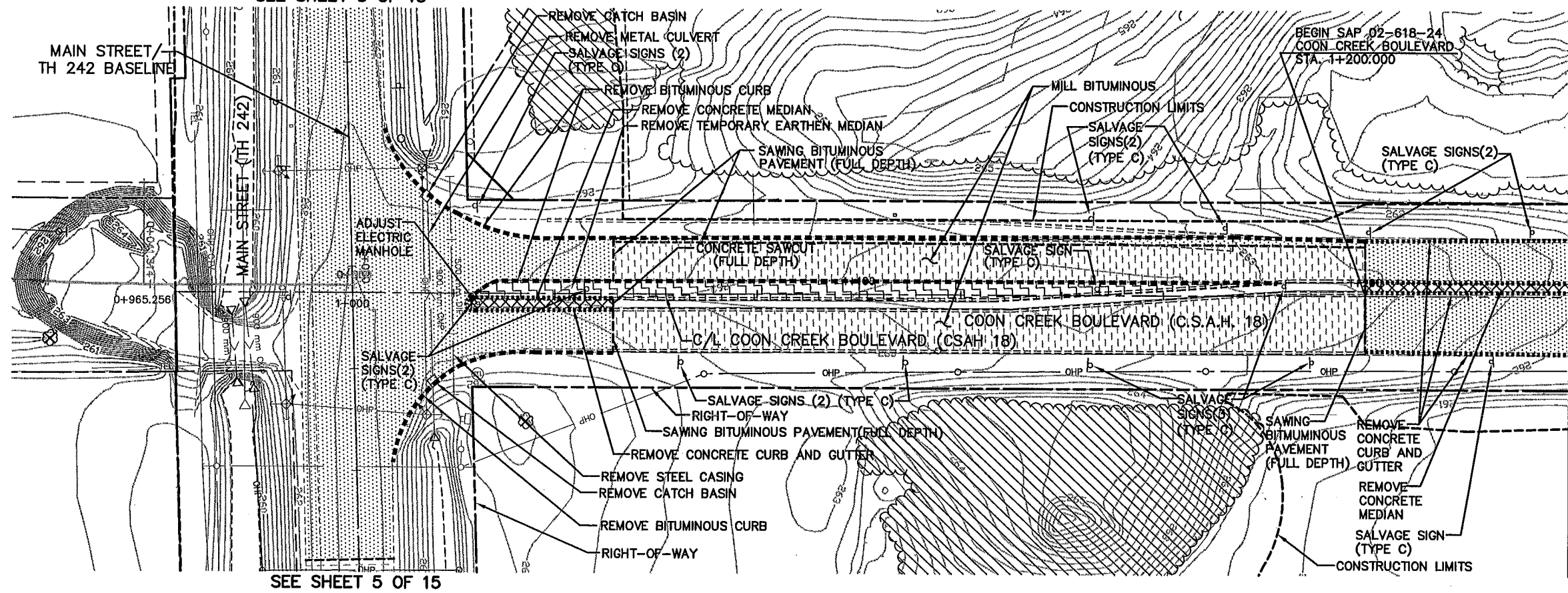
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	128
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 138 - 02	
S.A.P. 114 - 127 - 02	539

1PBOX
12MHECN
12_GR1D
1-HATCH
12E-CLM
12E-AL1
12-
12MHEVC6
12MHEVO

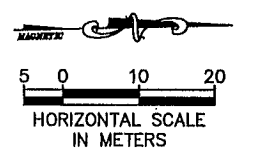
PLOT DATE: May 03 2:07pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-S\2ere09.dwg

SEE SHEET 5 OF 15

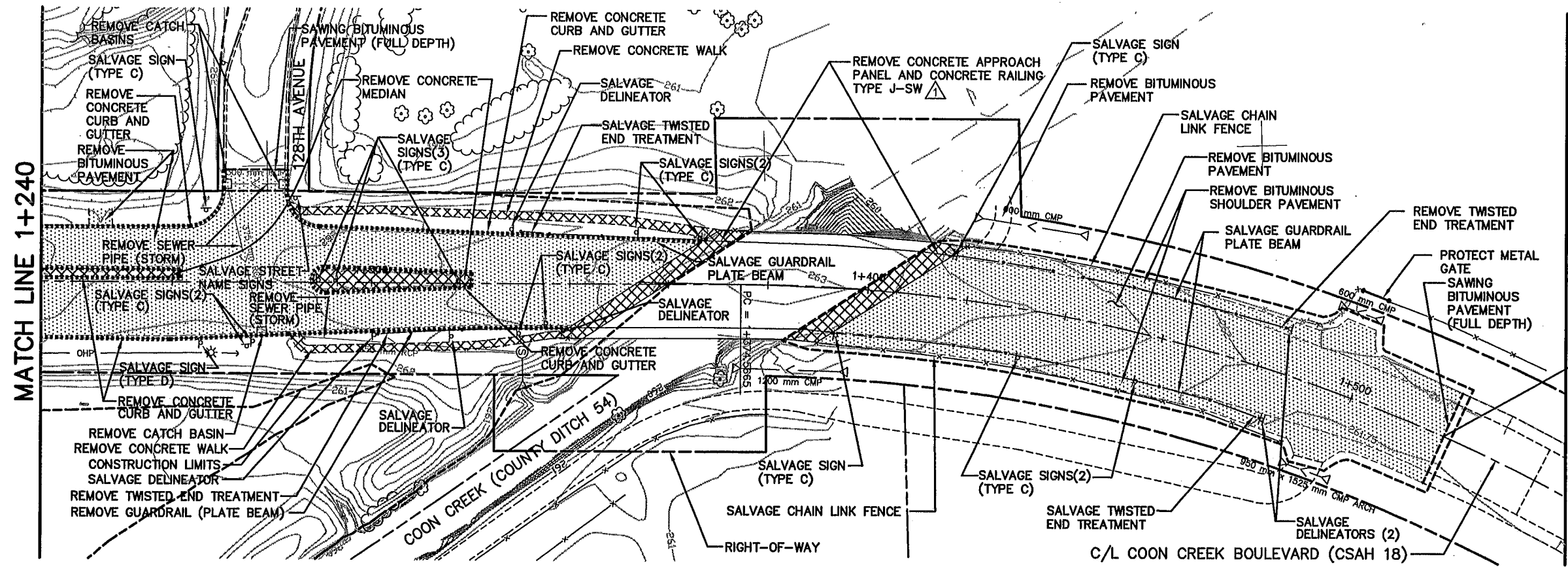


MATCH LINE 1+240

- 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



SEE SHEET 5 OF 15



MATCH LINE 1+240

END CONSTRUCTION
END SAP 02-618-24
COON CREEK BOULEVARD
STA. 1+520.000

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 HATCH FOR TREE REMOVAL, CHANGED NOTES
2	JJL	2/11/00	REMOVE CONC. SIDEWALK TO REMOVE CONC. WALK ADDEND A, ADDED NOTES: 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
CHKD. BY: PBD/KPK	DWG. NAME: 242ERE09	
DATE: NOVEMBER 5, 1999		

BRW
A DAMES & MOORE GROUP COMPANY

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. Kiehl

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

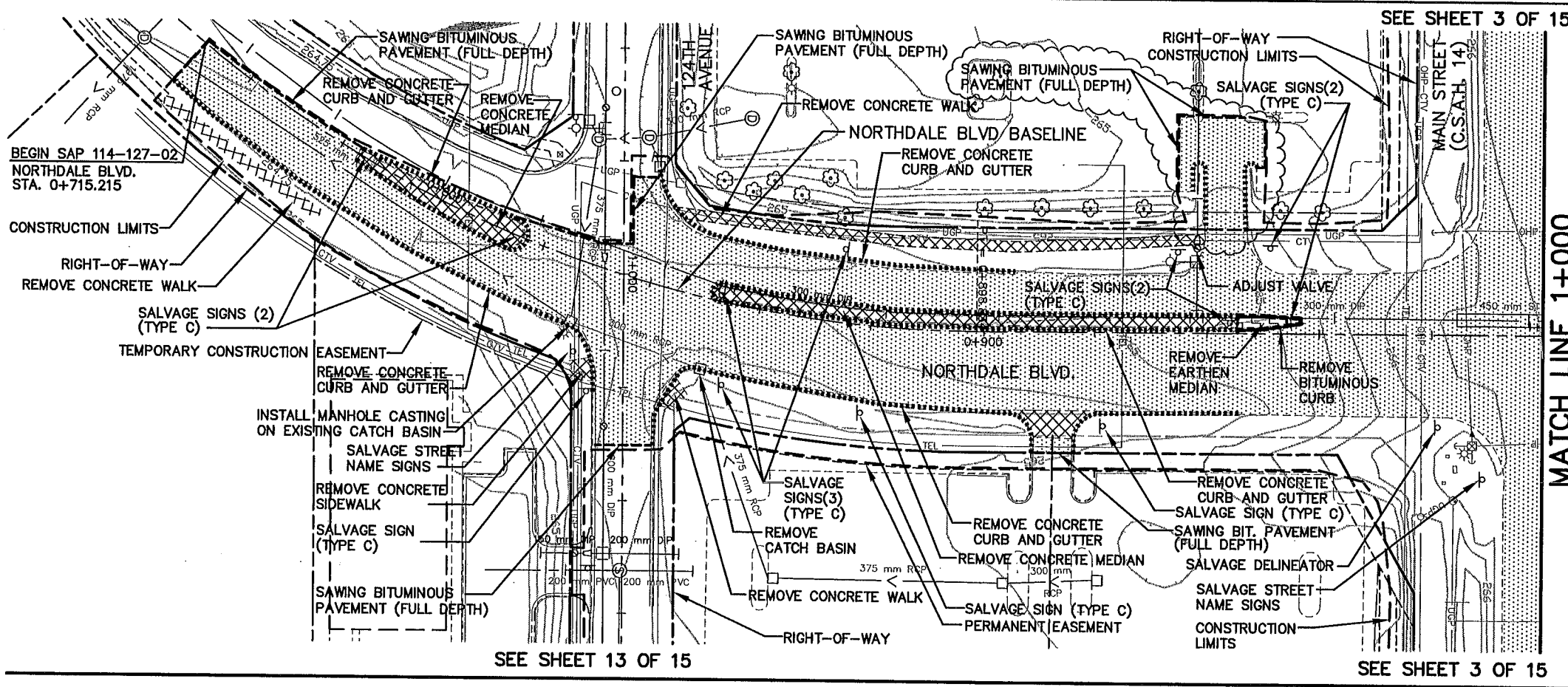
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	129
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	

11 OF 15

539

1PBOX
12CLM-W
1M-W-HAT
12-GRID
12E-CLM
12MHECN
186SITE
12-
12-
12M...G
12MHETO
12-EUT

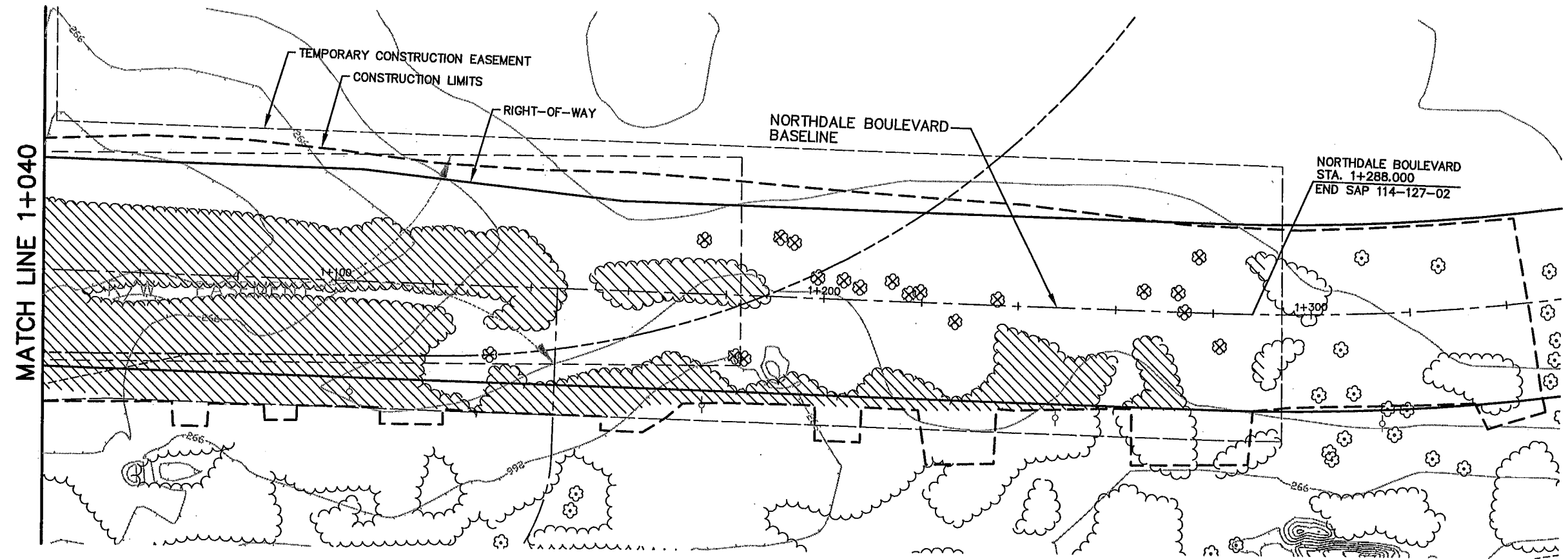
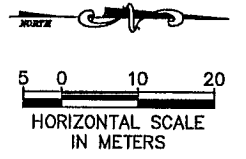
PLOT DATE: Apr 04 3:26pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W PLAN_ShrmENGRING\242re05.dwg



MATCH LINE 1+000

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



MATCH LINE 1+040

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
2	JUL	6/01/00	STA. 1+288 CHANGED BEGIN TO END MOD. REQ. #27: D/W 0+912.480 RT, REMOVE C&G, CONC. APRON & BITUMINOUS.
3	BJK	7/20/00	MOD. REQ. #11: ADDED UTILITY ADJUSTMENTS
4	JUL	9/07/00	MOD. REQ. #59: MODIFIED BANK ENTRANCE
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DESIGNED BY: JUL
DRAWN BY: JRJ	CHKD. BY: PBD/KPK
DATE: NOVEMBER 5, 1999	DWG. NAME: 242RE05

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

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

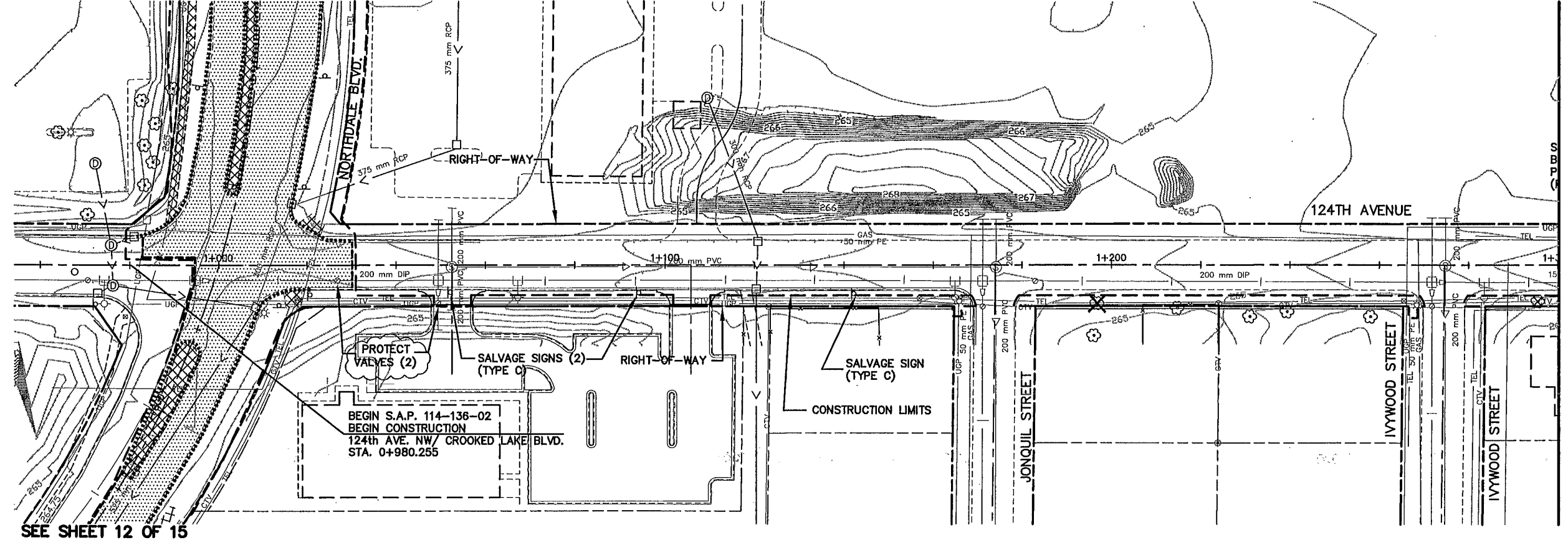
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.10.
Kevin P. Kullb
DATE: 11/5/99 MINN. REG. NO. 23211

**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)	SHEET NO.
S.A.P. 02 - 614 - 19	130
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

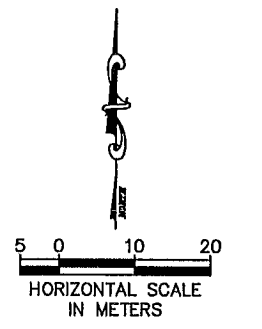
REF. DRAWINGS
 2-GR1D
 2E-ALI
 PBOX
 MW-HAT
 2E-CLM
 2MHECN
 2CLM-W
 2-
 2
 2M...G
 2MHETO
 2-EUT

SEE SHEET 12 OF 15



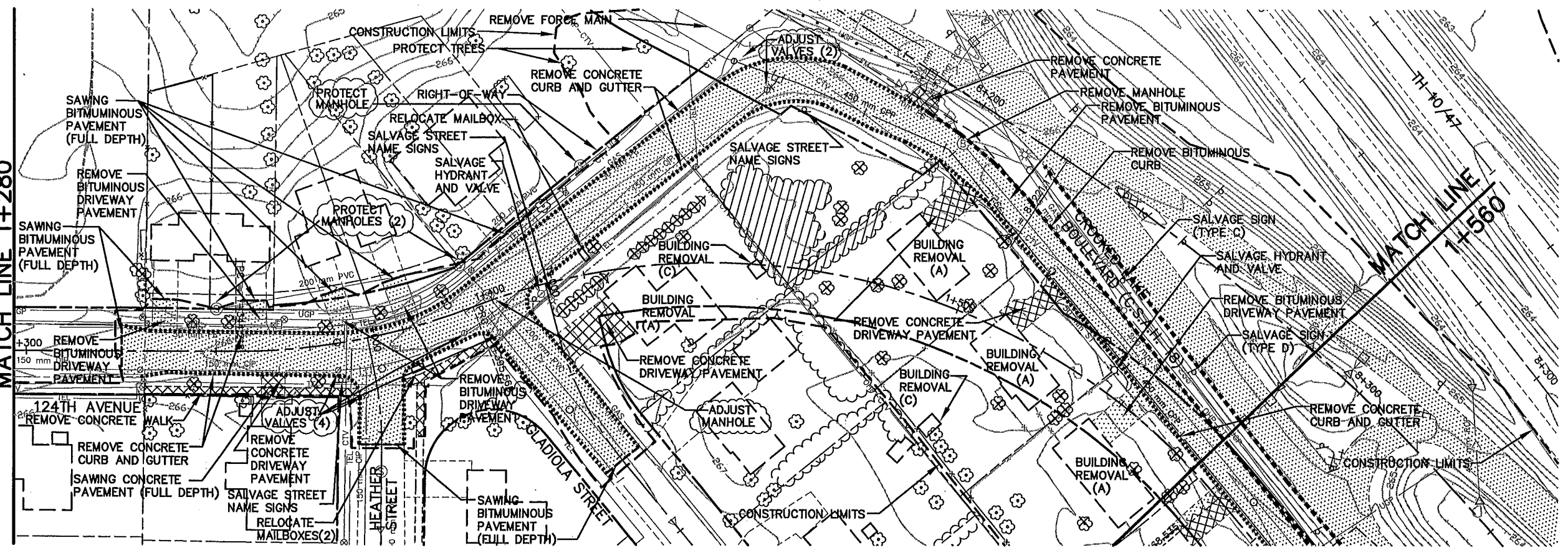
MATCH LINE 1+280

- 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



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



MATCH LINE 1+280

MATCH LINE 1+560

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PLOT DATE: Apr 04, 2004 3:24pm DISK FILE NAME: (15.06) R:\33889\33889028\33889WPLAN_SHTYENGRING\242re03.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JKR	12/30/99	CHANGED 124th AVE. BEGIN STA.
2	B.K.	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:
 JLL
 CHKD. 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. Kullb
 DATE: 11/5/99 MINN. REG. NO. 23211

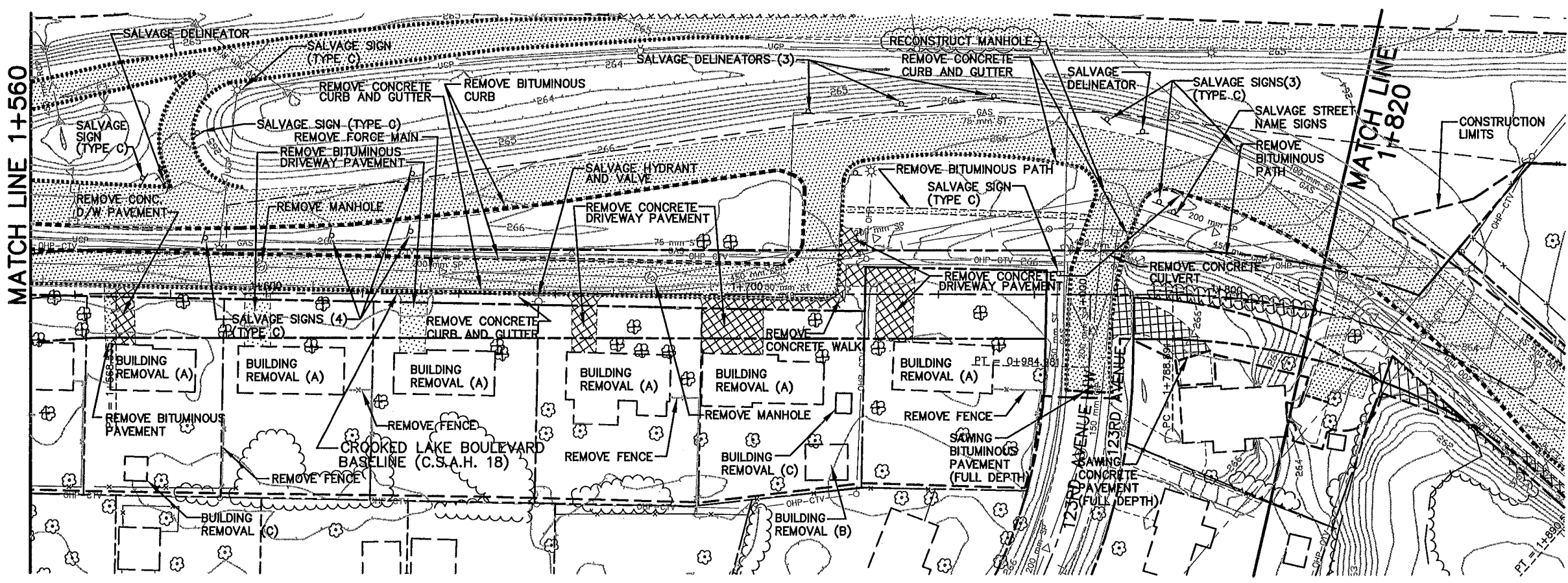
MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./
CROOKED LK. BLVD. (C.S.A.H. 18)
 EXISTING TOPOGRAPHY, UTILITIES AND REMOVALS
 STATION 1+000.000 TO STATION 1+560.000
CITY PROJECT 98-20

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

13 OF 15
 SHEET NO.
131
539

REF DRAWINGS
 APBOX
 V-HATCH
 42-ALIW
 EMW-HAT
 42MHETO
 42_GRID
 42E-C/M
 42
 42-LSUM
 42MHVEG
 42-EUT

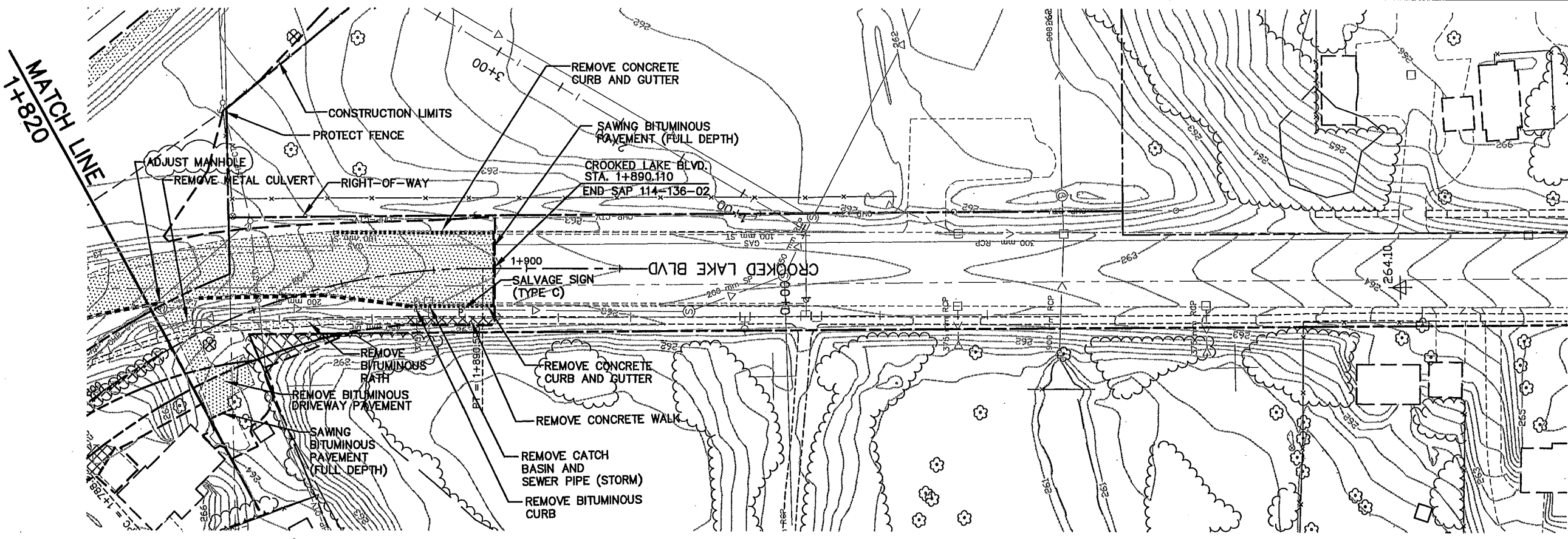
PLOT DATE: Apr 01 2004 3:25pm DISK FILE NAME: (15.06) R:\33889\33889028\33889\PLAN_S\ENGRING\242re04.dwg



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

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

HORIZONTAL SCALE IN METERS

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADJUSTED MATCH LINE 1+820 ADDED RDWY NAME TO END STA.
2	JUL	7/6/00	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: JUL
 CHKD. BY: PBD/KPK
 DWG. NAME: 242RE04
 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
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

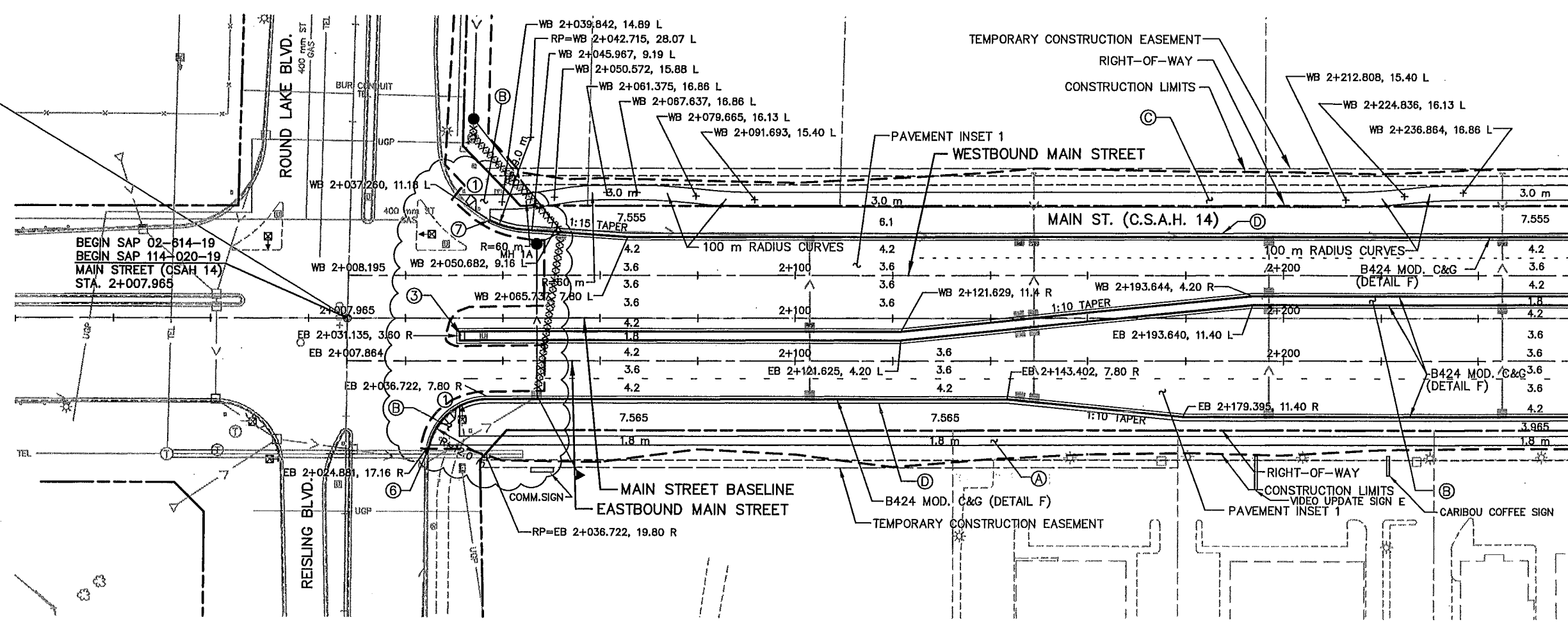
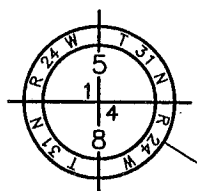
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kullb
 DATE: 11/5/99 MINN. REG. NO. 23211

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

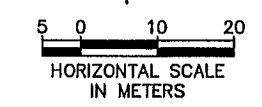
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

SHEET NO.
132
539

1-AL1W
 2-CLM-W
 3-STR1PE
 4-E-TXT
 5-PUT
 6-PI-1
 7-1
 8-2MhVEG
 9-2MhETO
 10-2-BUT

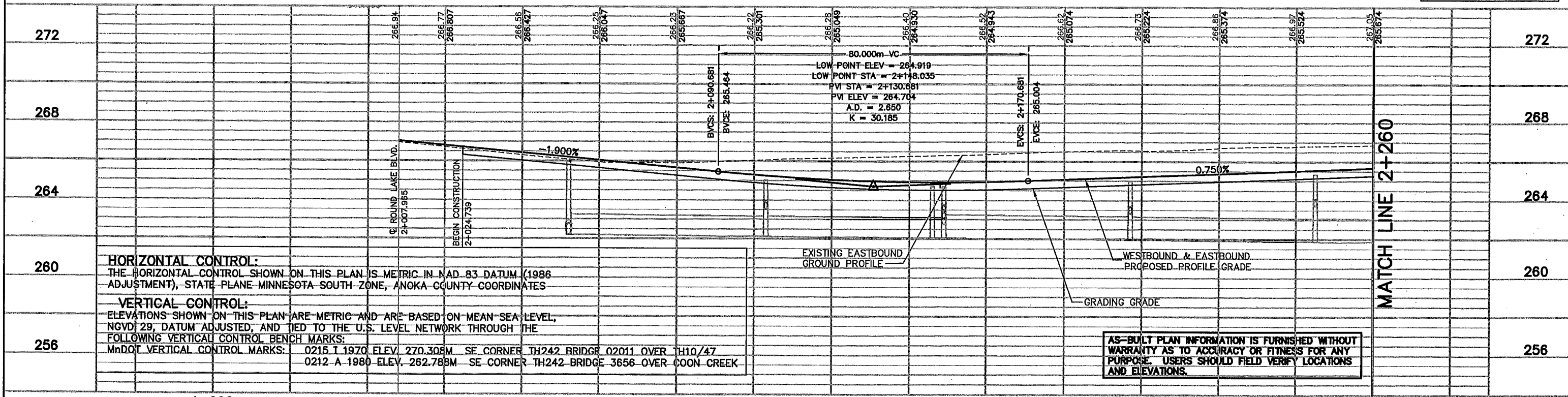


MATCH LINE 2+260



- 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

PLOT DATE: Apr 2004 3:36pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN\ENGRING\242wpp01.dwg



MATCH LINE 2+260

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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 ADDED NOTE FOR HORIZ. & VERT. CONTROL
2	JUL	8/28/00	MOD. REQ. #31: REMOVED SUBCUT FROM PROFILE
3	PMJ	7/10/00	MOD. REQ. #47: MODIFIED BIT PATH C
4	JUL	7/12/00	MOD. REQ. #40: MOD. CONSTRUCTION LIMITS
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
 33889028
 DRAWN BY:
 PMJ/PMJ
 DESIGN BY:
 KPK/JUL
 CHECKED BY:
 PBD/KPK
 DWG. NAME:
 242WPP01
 DATE:
 NOVEMBER 5, 1999



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

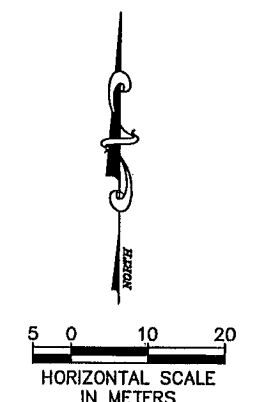
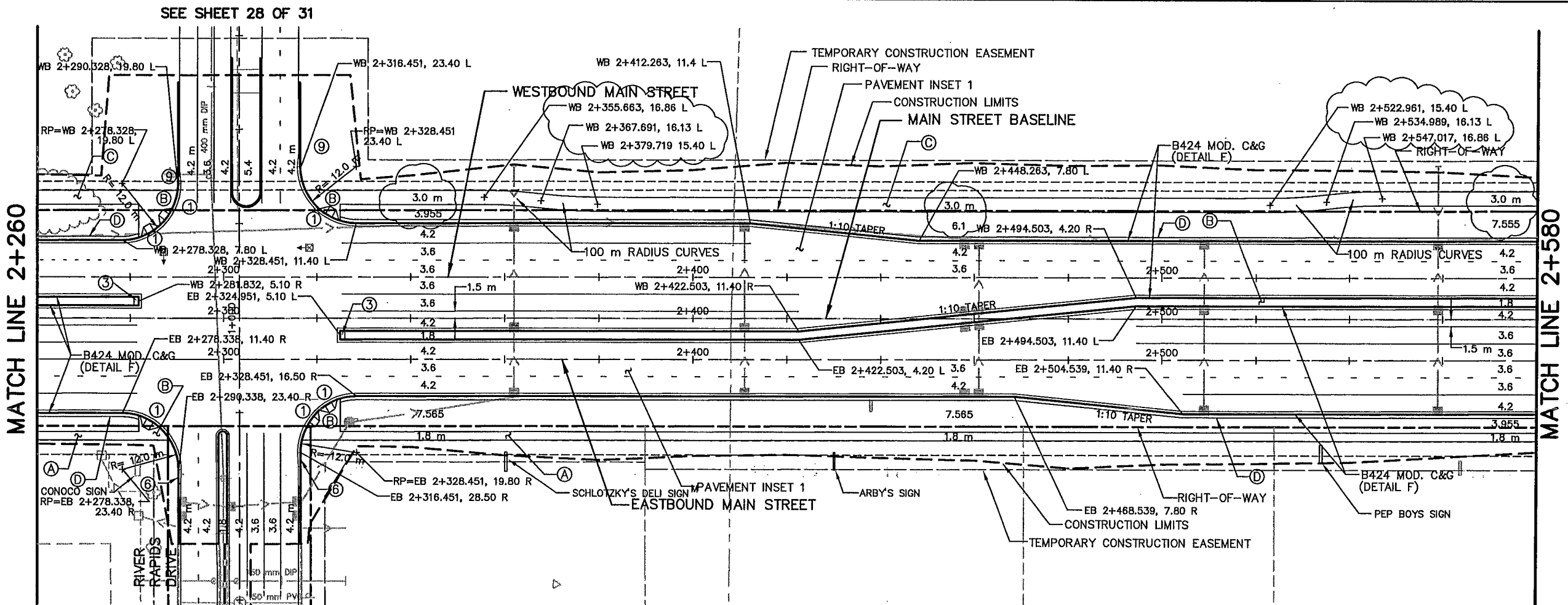
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
 PLANNED CONSTRUCTION
 STATION 2+007.965 TO STATION 2+260.000
 CITY PROJECT 98-20

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

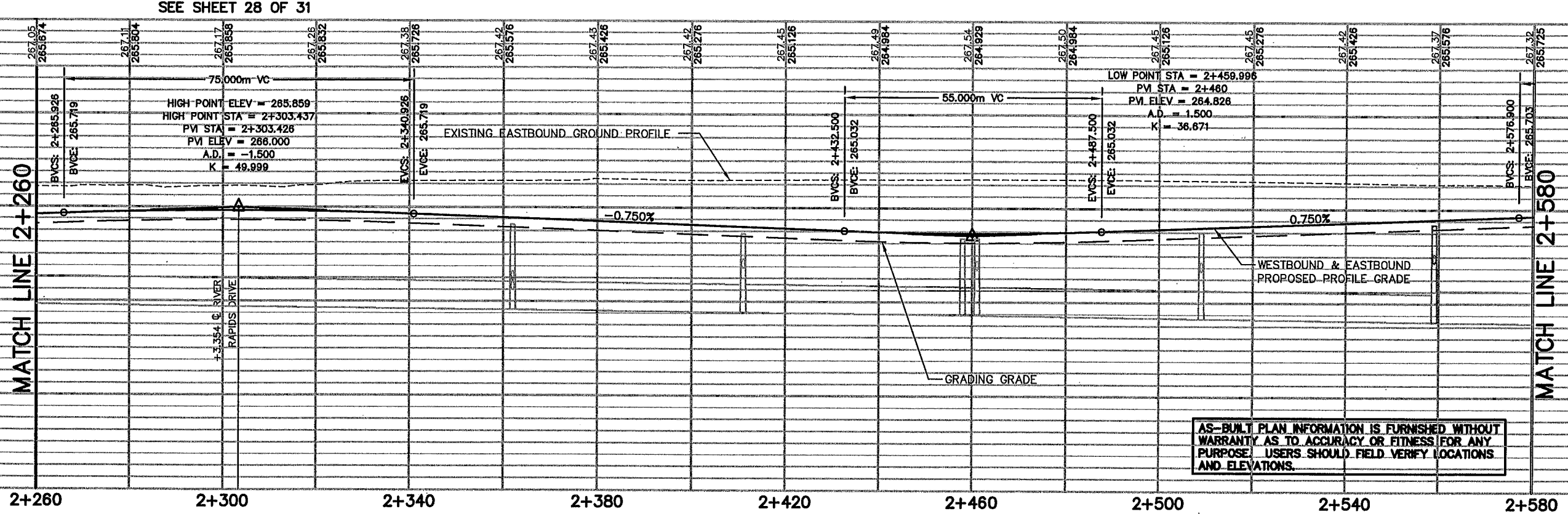
SHEET NO.
134
539

.PBOX
 .2E-TXT
 .2CLM-W
 .STRIP-E
 .2-PUT
 .2PLN-W
 .2-PL-W
 .1
 .2
 .2MHVEG
 .2MHETO
 .2-BUT

PLOT DATE: Apr 04 3:36pm
 DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...NDRING\242wpp02.dwg

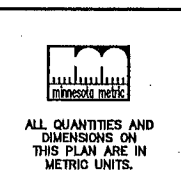


- CONSTRUCTION NOTES:**
- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
 - Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
 - Ⓒ BITUMINOUS PATH (DETAIL A)
 - Ⓓ MAINTENANCE STRIP (DETAIL C)
 - ① CONST. CONC. PEDESTRIAN CURB RAMP
 - ② DROP CURB
 - ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
 - ④ CONST. CONC. 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



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7109F TO 7109 REMOVED LETTER DESIGNATION FOR STD. PLATES
2	JUL	6/28/00	MOD. REQ. 43: REMOVED SUBCURV FROM PROFILE
3	PMJ	7/10/00	MOD. REQ. 44: MODIFIED BIT PATH C
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
 33889028
 DRAWN BY:
 PJM/JRJ
 DESIGN BY:
 KPK/JUL
 CHECKED BY:
 PBD/KPK
 DWG. NAME:
 242WPP02
 DATE:
 NOVEMBER 5, 1999



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. Kullb
 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

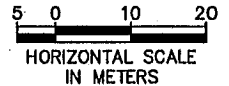
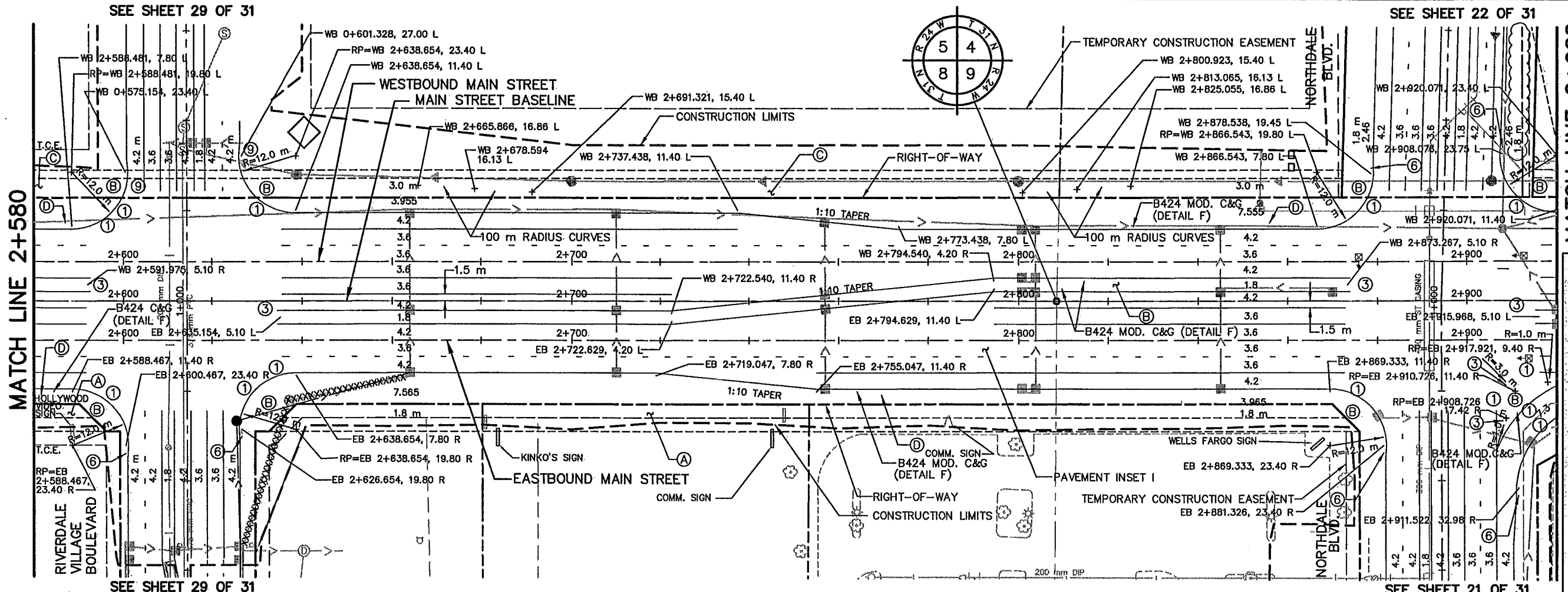
S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
135
539

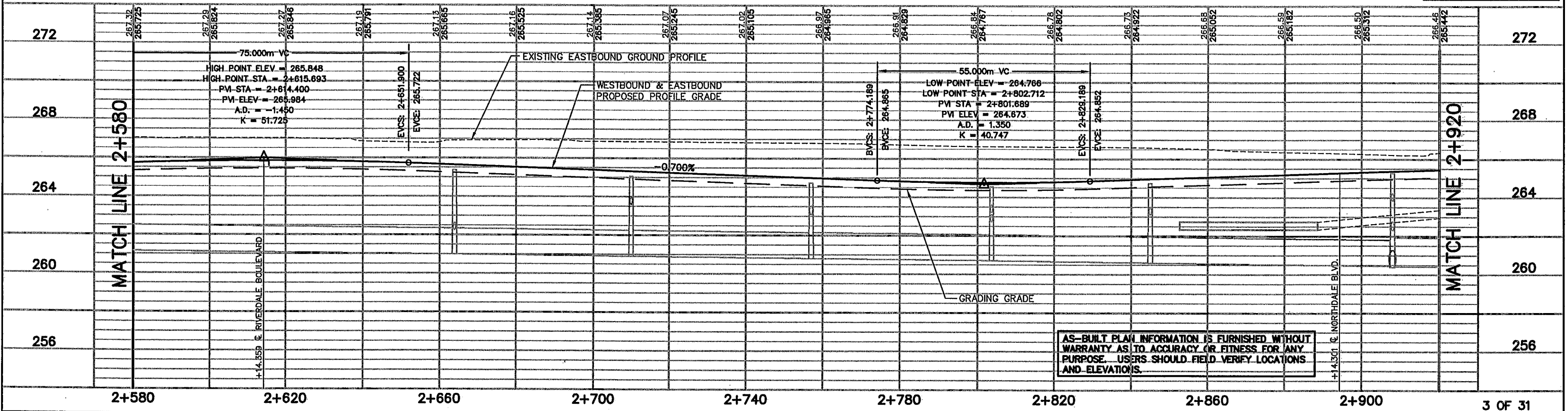
PBOX
2E-TXT
.STRIP
2CLM-W
2-PUT
2PLANN
2-
2-
2-EJUM
2MHVEG
2MHETO
2-EUT

...RING\242wpp03.dwg

PLOT DATE: Apr 04 4:33:37pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH



- 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 APPROACH NOSE 7113 TO CONC. ISLAND CORNERS
2	JLL	6/28/00	MOD. REQ. #31: REMOVED SUBCUT FROM PROFILE
3	PMJ	7/10/00	MOD. REQ. #47: MODIFIED BIT PATH C
4	JLL	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

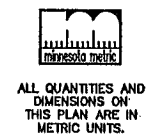
DRAWN BY:
PMJ/PMJ

DESIGN BY:
KPK/JLL

CHKD. BY:
PBD/KPK

DWG. NAME:
242WPP03

DATE:
NOVEMBER 5, 1999



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. Kullb

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

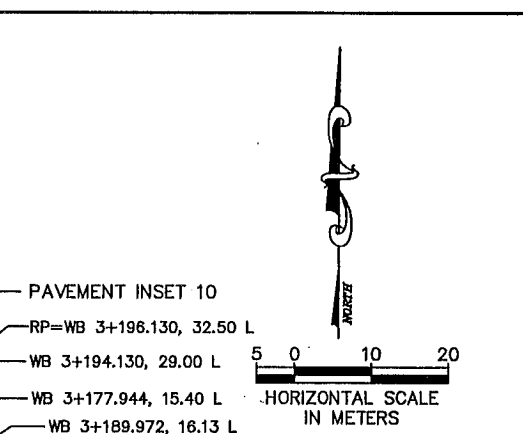
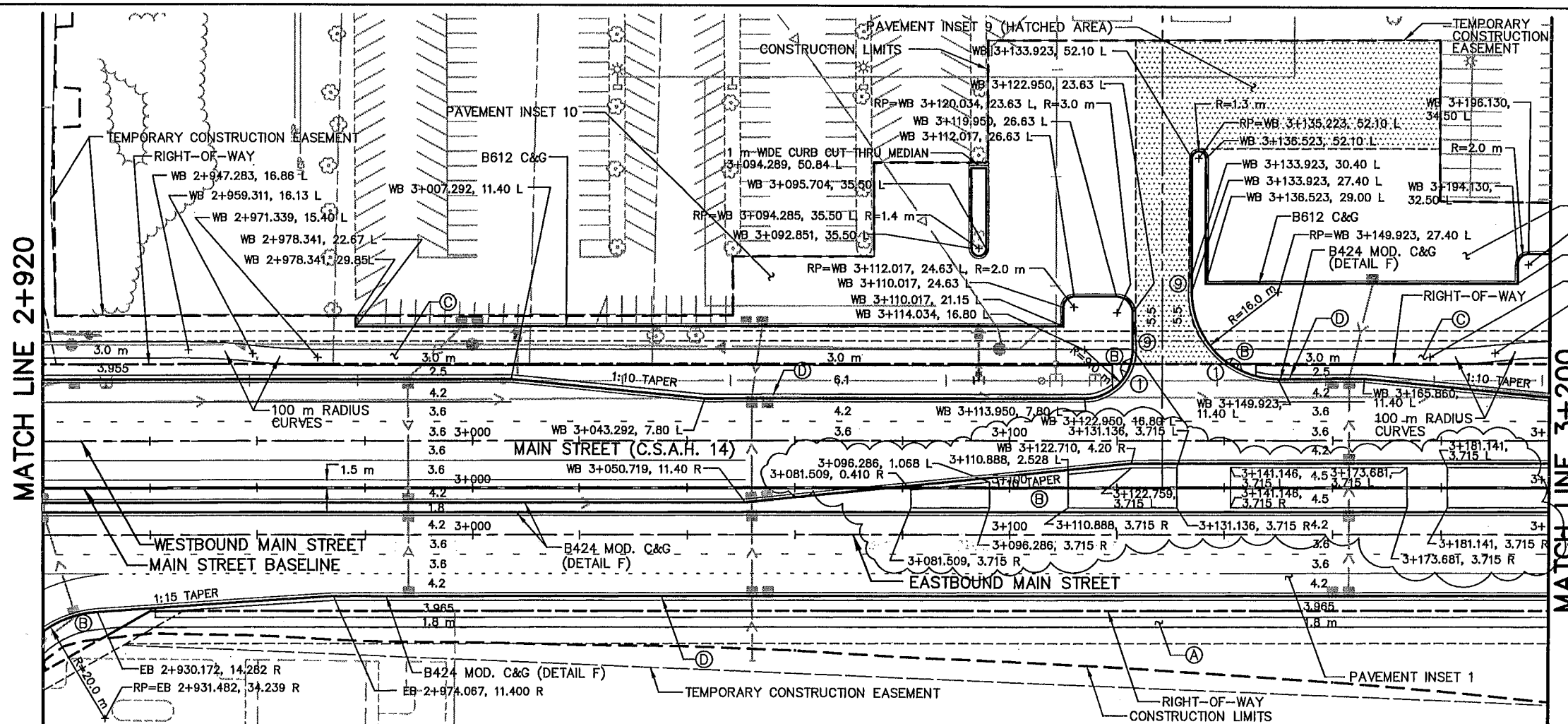
S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
136

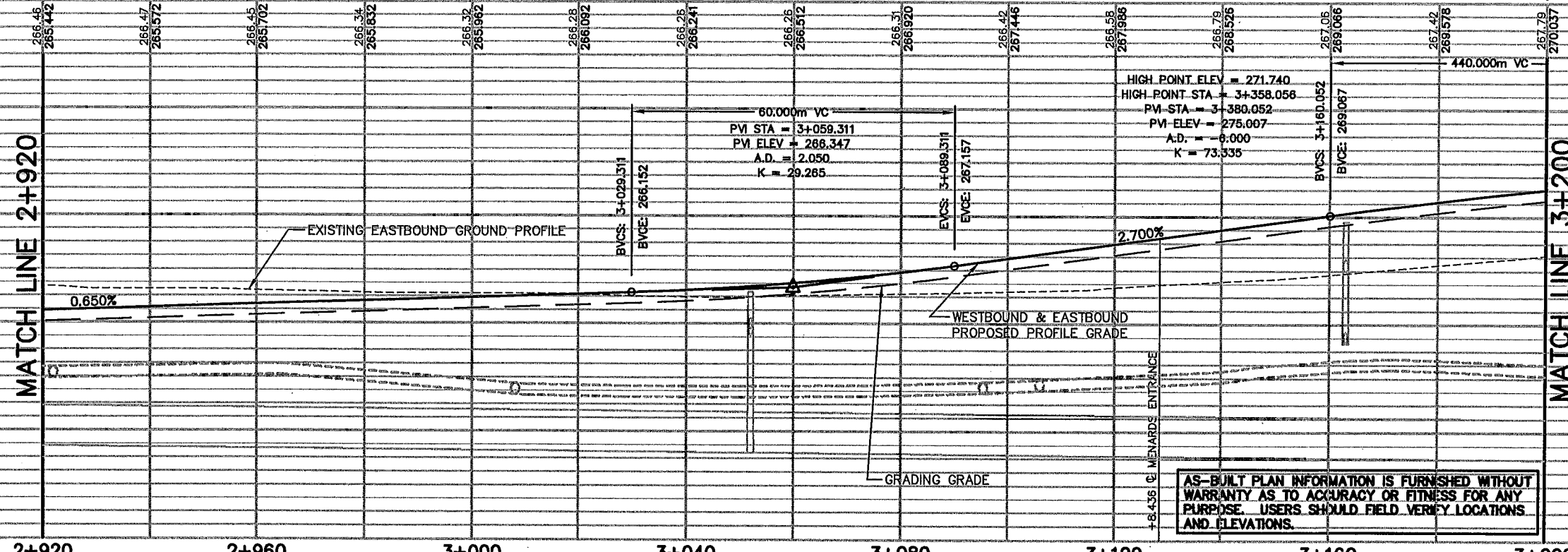
539

PBOX
2E-TXT
STRIP
2CL-W
2-PUT
2PLW
2-AW
1'
2-
2MHC
2MHTO
2-BIT

PLOT DATE: Apr 04 3:38pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S... JORING\242wpp04.dwg



- 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	JKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109 REMOVED LETTER DESIGNATION FOR STD. PLATES REVISED OFFSET FOR B612 CURB CONSTRUCTION
2	JUL	6/28/00	MOD. REQ. #31: REMOVED SUBCUT FROM PROFILE
3	PMJ	6/28/00	MOD. REQ. #47: MODIFIED BIT PATH C
4	PMJ	7/6/00	MOD. REQ. #38: REVISED PER NEW MENARDS LAYOUT
5	PMJ	7/10/00	MOD. REQ. #47: MODIFIED BIT PATH C
6	JUL	10/12/00	CLAR. #13: ADD STATIONS FOR MED. LANDSCAPING
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: PMJ/PMJ	DESIGN BY: KPK/JUL
CHKD. BY: PBD/KPK	DWG. NAME: 242WPP04	
DATE: NOVEMBER 5, 1999		

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

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. Kiel

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

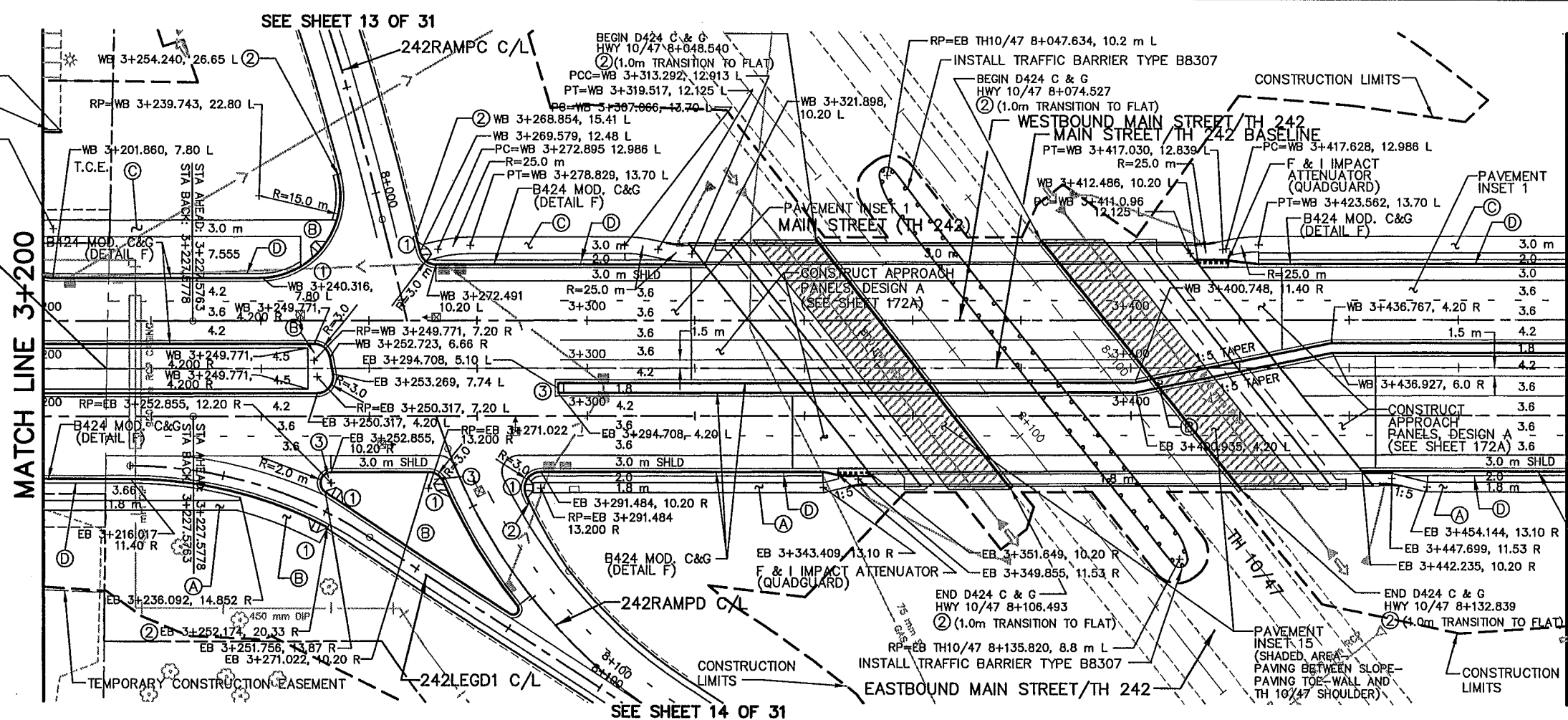
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
 PLANNED CONSTRUCTION
 STATION 2+920.000 TO STATION 3+200.000

CITY PROJECT 98-20

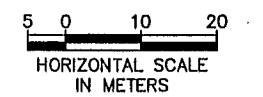
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	137
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

12E-TXT
12E-DRN
12E-ALI
12E-PLNW
12E-C...-W
12
12EPKOF
12-ESUM
12-EUT
12MHVEG
12MHETO

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

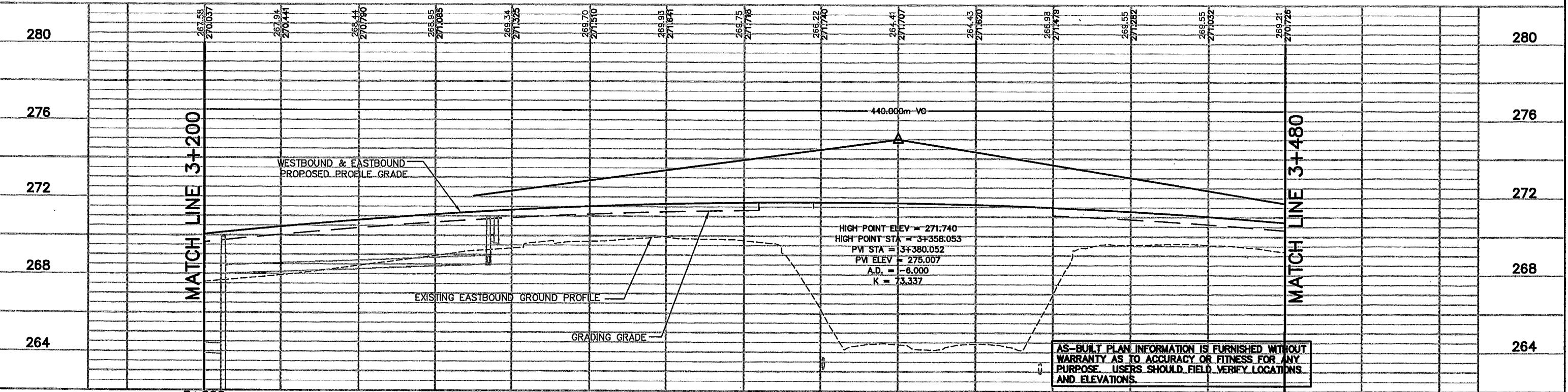


MATCH LINE 3+200
MATCH LINE 3+480



- 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

PLOT DATE: Aug 10, 2004 9:05am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SHT\242app05.dwg



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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+258 RT
2	PMJ	8/28/00	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
6	JL	10/12/00	CLARIFICATION #13; ADD STATIONS FOR MED. LANDSCAPING
7	JL	12/4/00	MOD. REQ. #70; ADD STORM SEWER NEAR BRIDGE
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
PJM/IKR
DESIGN BY:
KPK/JJL
CHKD. BY:
PBD/KPK
DWG. NAME:
242EPP05
DATE:
NOVEMBER 5, 1999



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

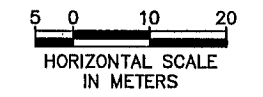
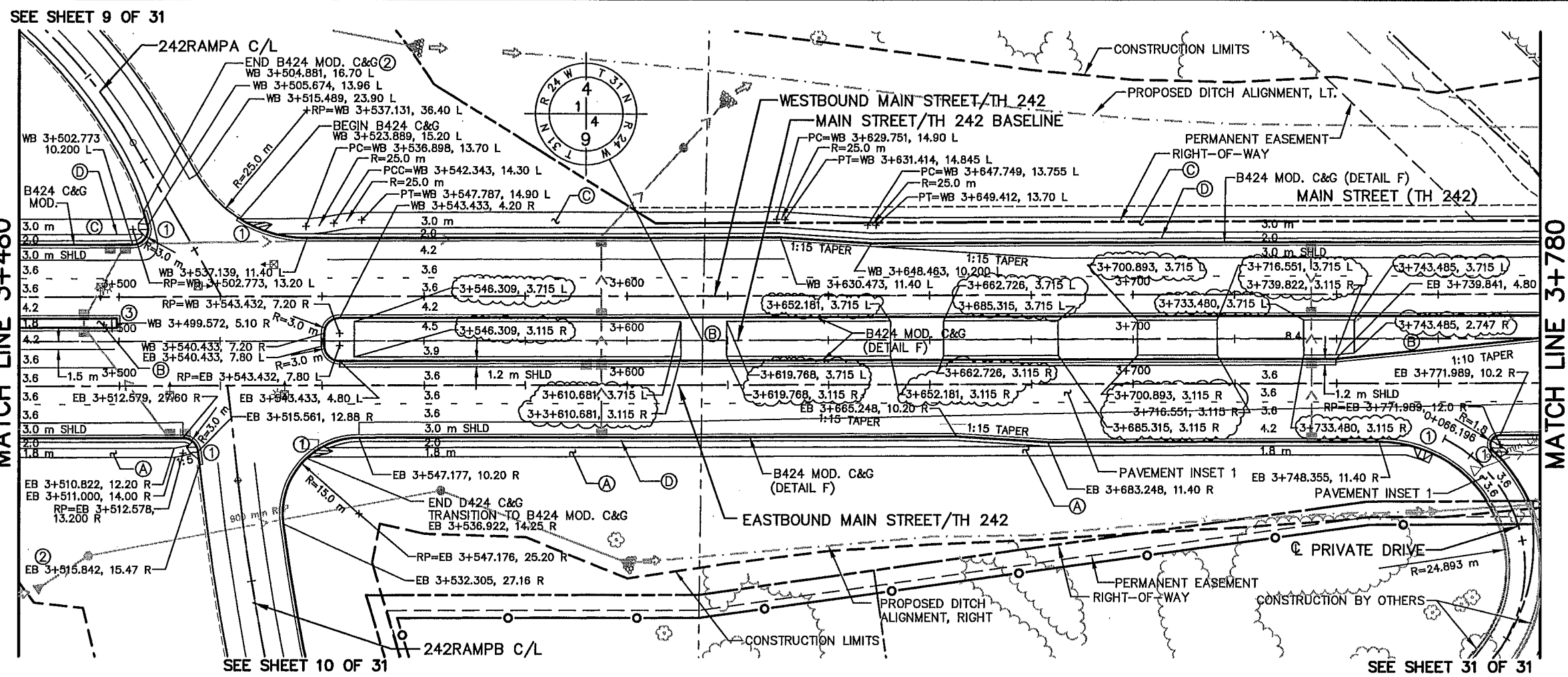
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (TH 242)
PLANNED CONSTRUCTION
STATION 3+200.000 TO STATION 3+480.000
CITY PROJECT 98-20

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. 114-138-02
S.A.P. 114-127-02

SHEET NO. **138**
539

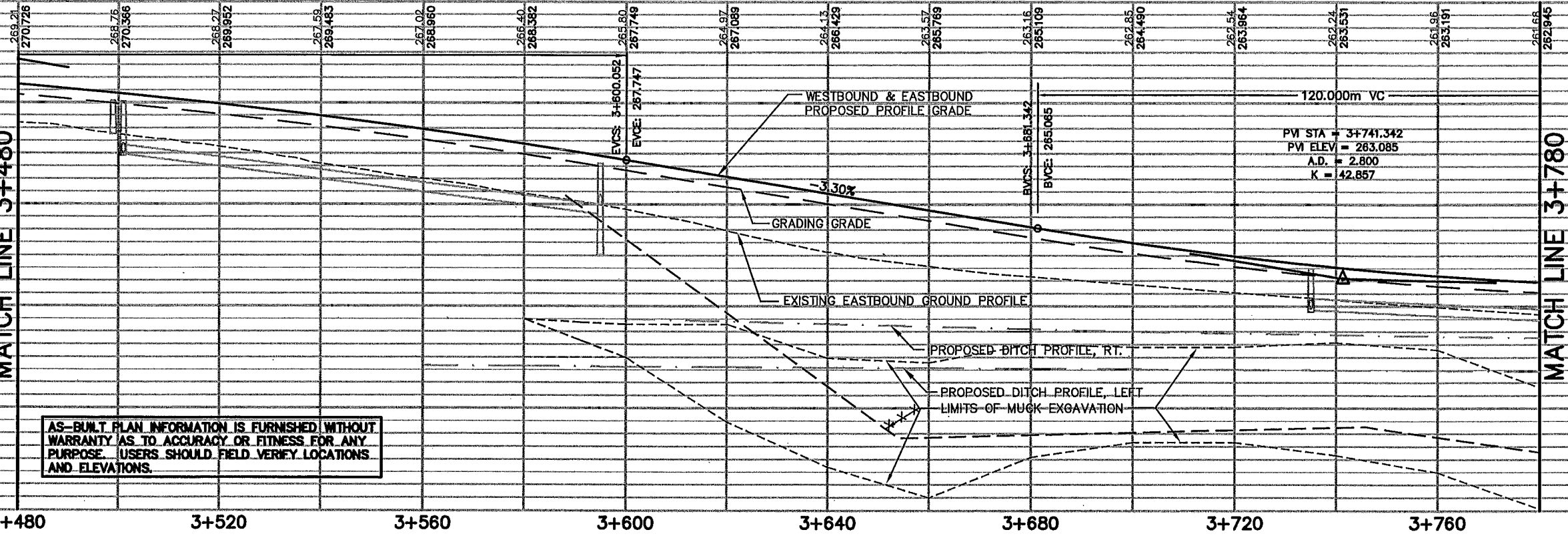
5 OF 31

VPBOX
I2E_DRN
I2E_TXT
I2E_PLN
I2E_CLM
I2E_PROF
I2
I2
I2-LUT
I2MHVEG
I2MHETO



- 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

PLOT DATE: Oct 12, 2000 11:14am DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\33889028\PLAN_SHT\242epp06.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED 26 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 BIKE 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

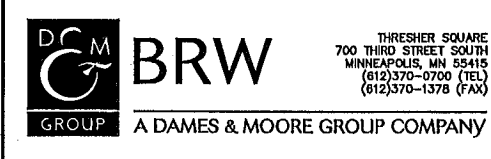
DRAWN BY:
PJM/IKR

DESIGN BY:
KPK/JJL

CHKD. BY:
PBD/KPK

DWG. NAME:
242EPP06

DATE:
NOVEMBER 5, 1999



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. Kielbaso

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

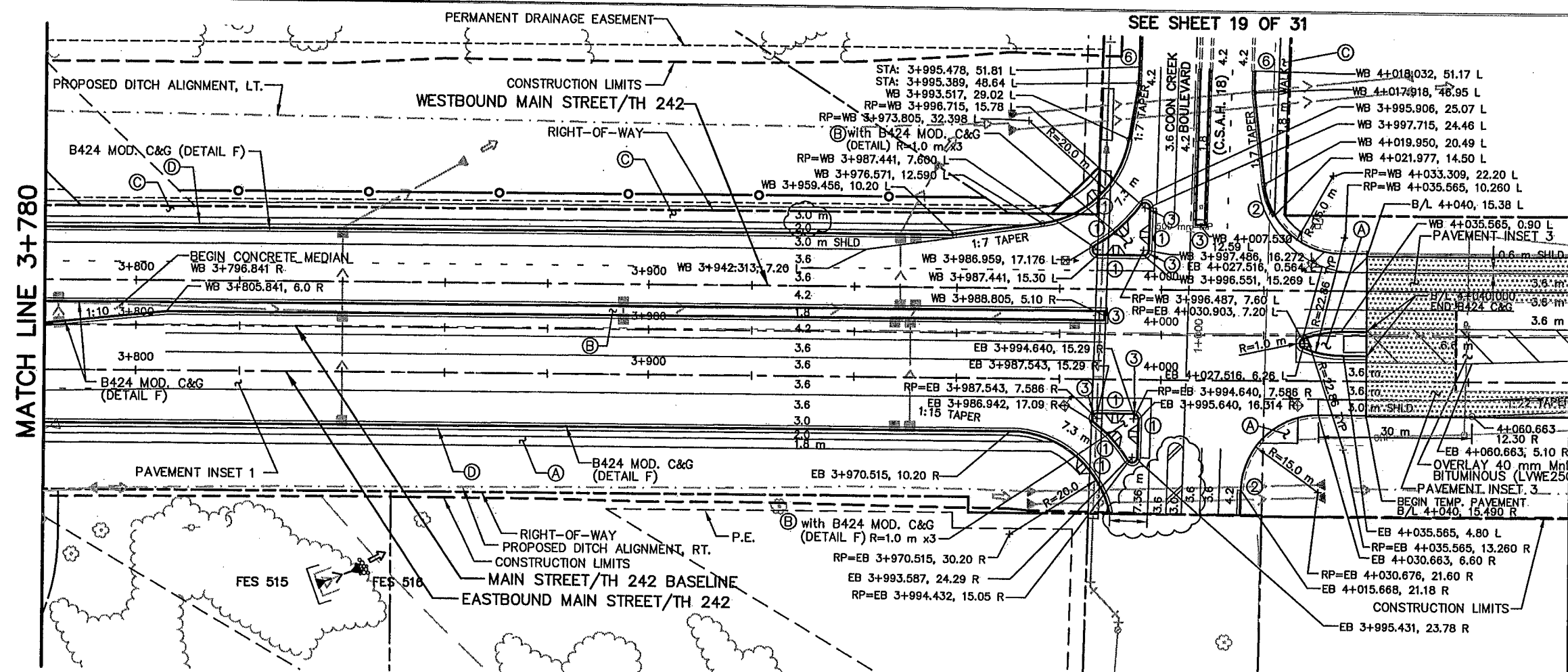
S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
139

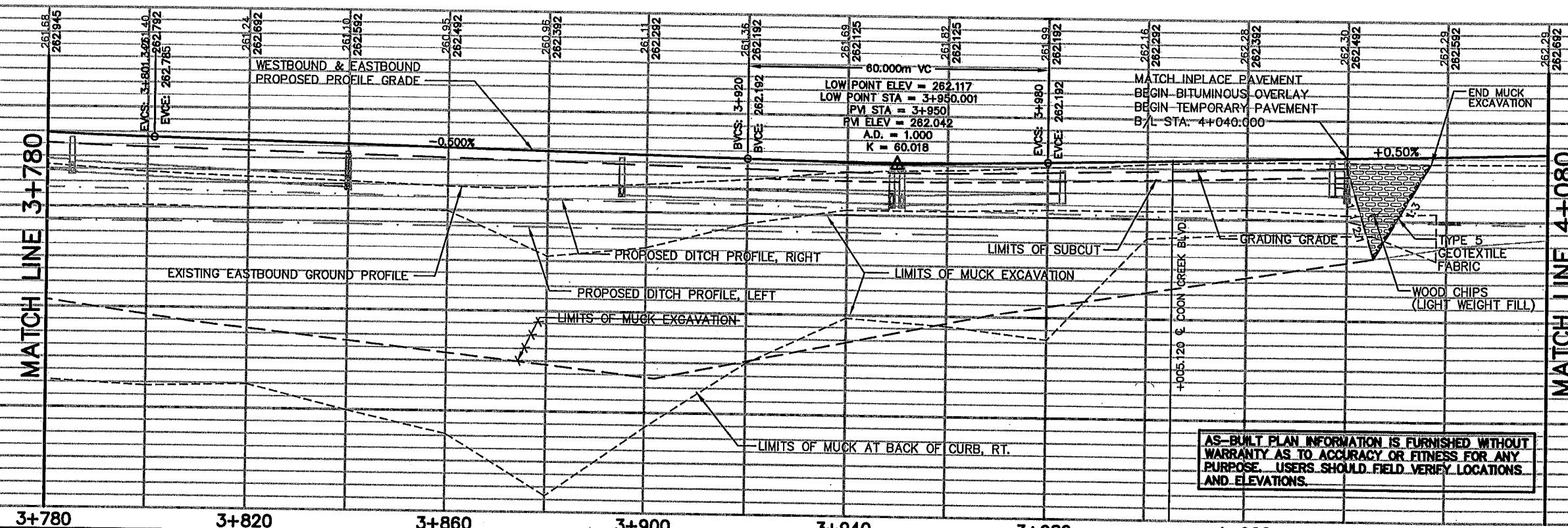
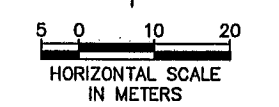
539

2PLN2A
PBOX
2E_DRN
2E-TXT
2E-PLN
2E-C.M
2E'
2E
2-ESUM
2-EUT
2MHVEG
2MHETO

PLOT DATE: Aug 1 4:32pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-St..._2epp07.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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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7109F TO 7109 ADDED NOTE FOR BITUMINOUS OVERLAY REMOVED LETTER DESIGNATION FOR STD. PLATES DELETED D/W AT 3+852.640 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.)
4	IKR	8/19/00	ADJUSTED PROFILE VIEW FOR MUCK
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
PJM/IKR
DESIGN BY:
KPK/JUL
CHKD. BY:
PBD/KPK
DWG. NAME:
242EPP07
DATE:
NOVEMBER 5, 1999

BRW
A DAMES & MOORE GROUP COMPANY
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. Kullb
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 - 138 - 02
S.A.P.	114 - 127 - 02

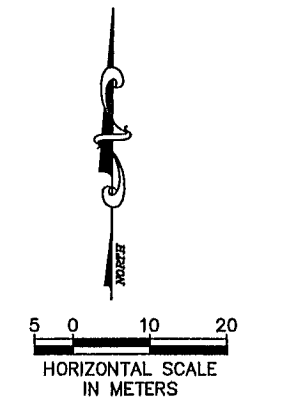
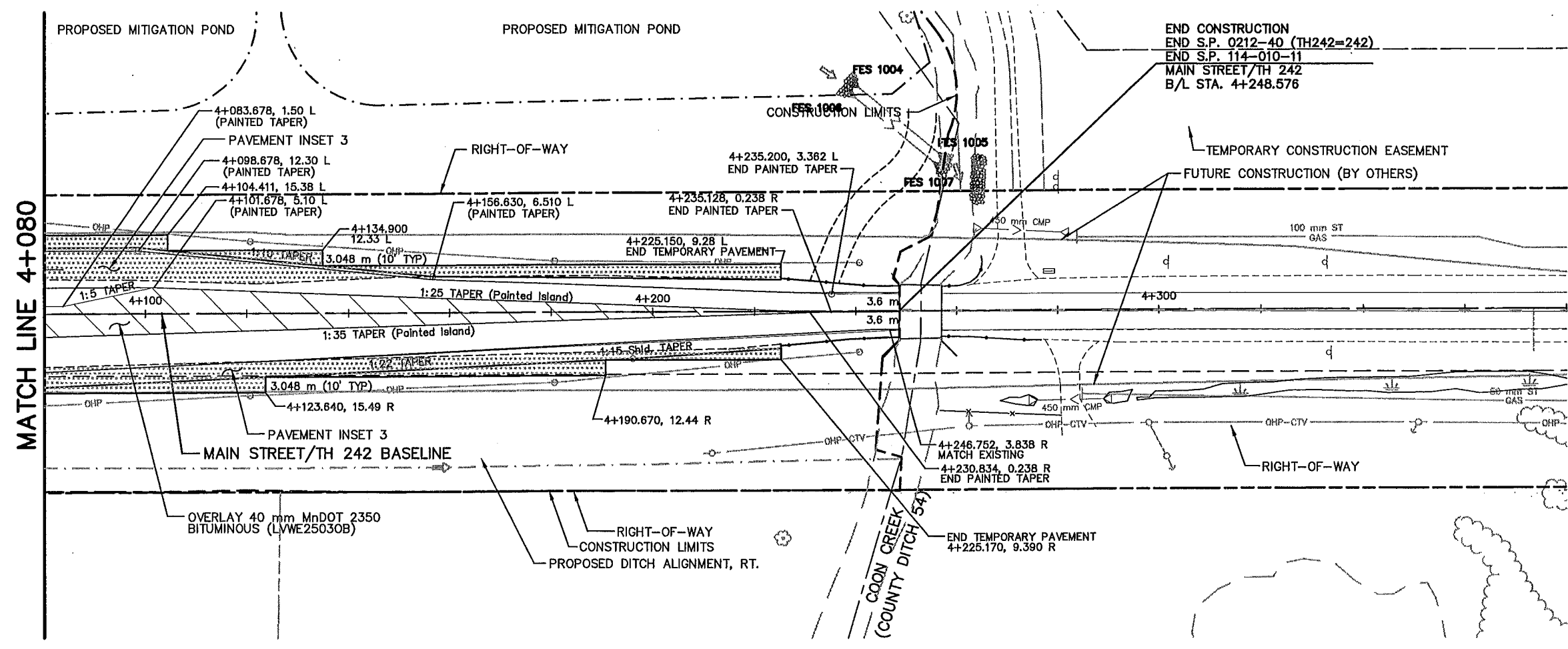
7 OF 31
SHEET NO.
140
539

STRIP
12PLN2A
1T_POND
1PBOX
12MHETO
12E_PON
12
12E-PLN
12EPROF
12E-ALI
12-ESUM
12-EUT
12MHVEG

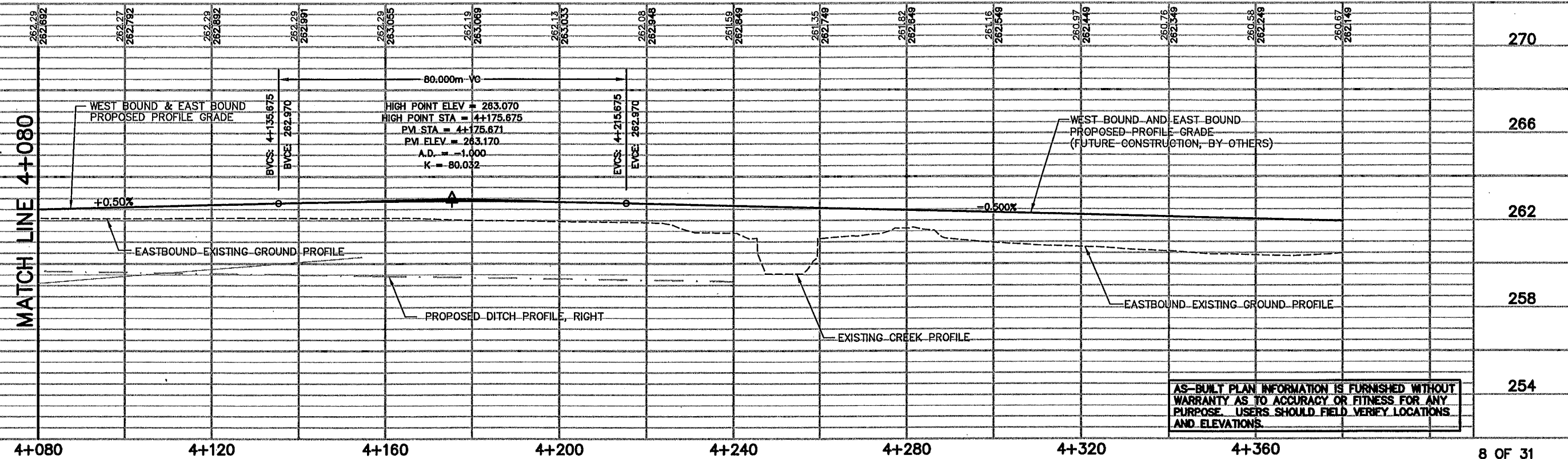
E:\PLAN-SHT\242epp08.dwg

DISK FILE NAME: (14.01h (Hardware Lock)) R:\33889\33889028\

PLOT DATE: Jul 12, 3:38pm



- 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
2	TSR	2/27/04	REMOVED LETTER DESIGNATION FOR STD. PLATES AS-BUILT DRAWING

DESIGN FILE: 33889028
 DRAWN BY: PJK/IKR
 DESIGN BY: KPK/JUL
 CHKD. BY: PBD/KPK
 DWG. NAME: 242EPP08
 DATE: NOVEMBER 5, 1999



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

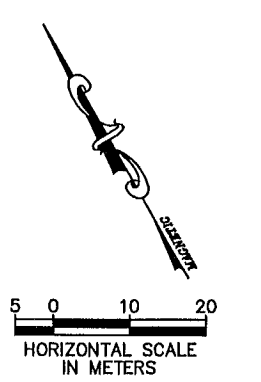
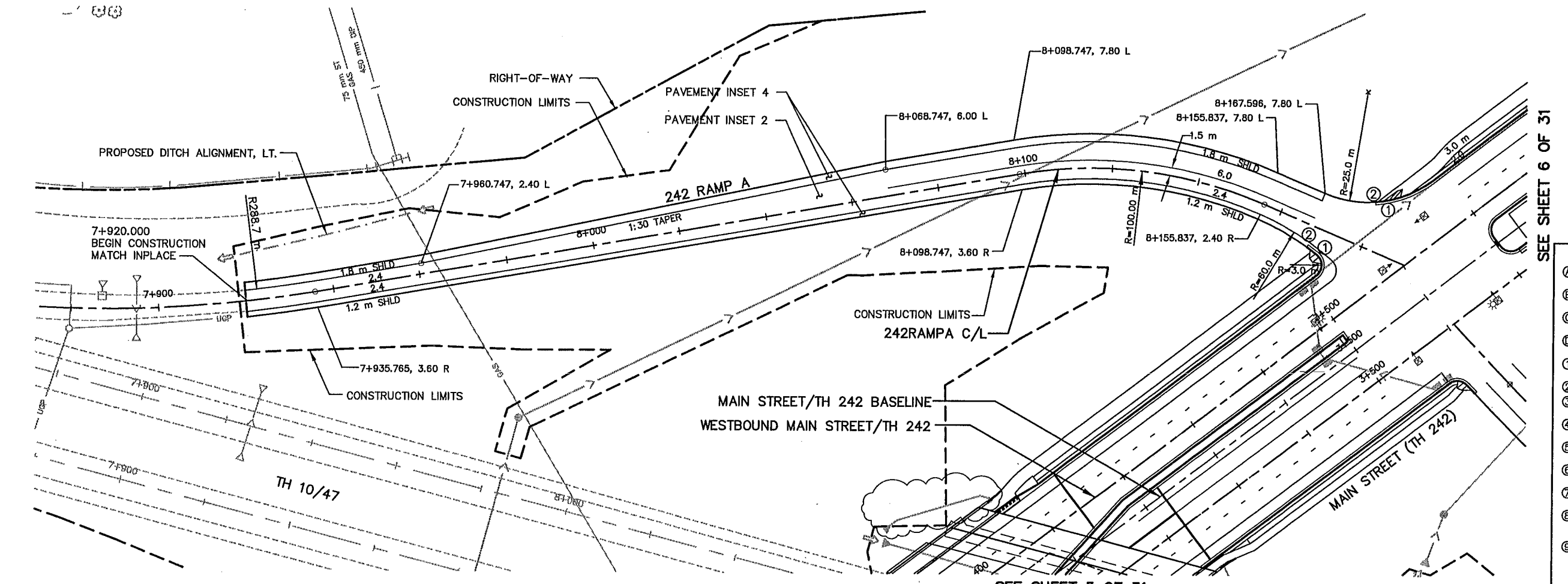
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (TH 242)
 PLANNED CONSTRUCTION
 STATION 4+080.000 TO STATION 4+380.000
 CITY PROJECT 98-20

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 - 138 - 02
 S.A.P. 114 - 127 - 02

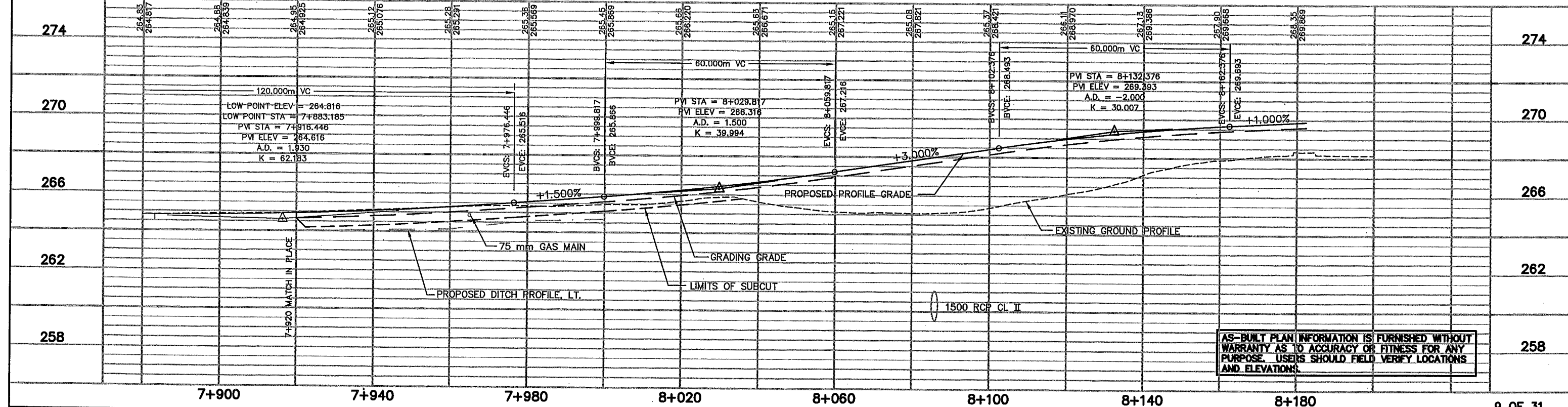
SHEET NO. 141
 539

APBOX
42E_DRN
42EPROF
42E-TXT
42E-PLN
42E-CLM
42E
42
42MHVEG
42MHETO

PLOT DATE: Dec 0 4:20pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SH-pp12.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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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 7108F TO 7109
2	JUL	12/4/00	REMOVED LETTER DESIGNATION FOR STD. PLATES
3	TSR	2/27/04	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
			AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PM/IKR
DESIGN BY: KPK
CHKD. BY: PBD/KPK
DWG. NAME: 242EPP12
DATE: NOVEMBER 5, 1999



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

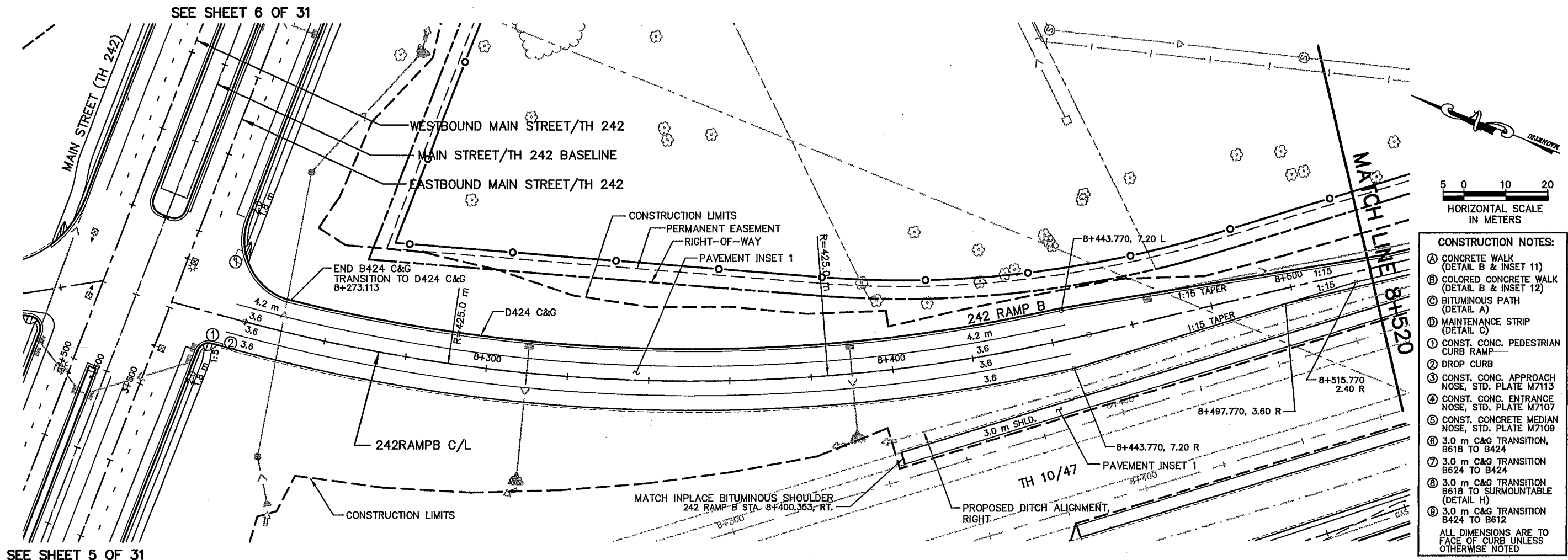
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
PLANNED CONSTRUCTION
STATION 7+920.000 TO STATION 8+182.376
CITY PROJECT 98-20

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

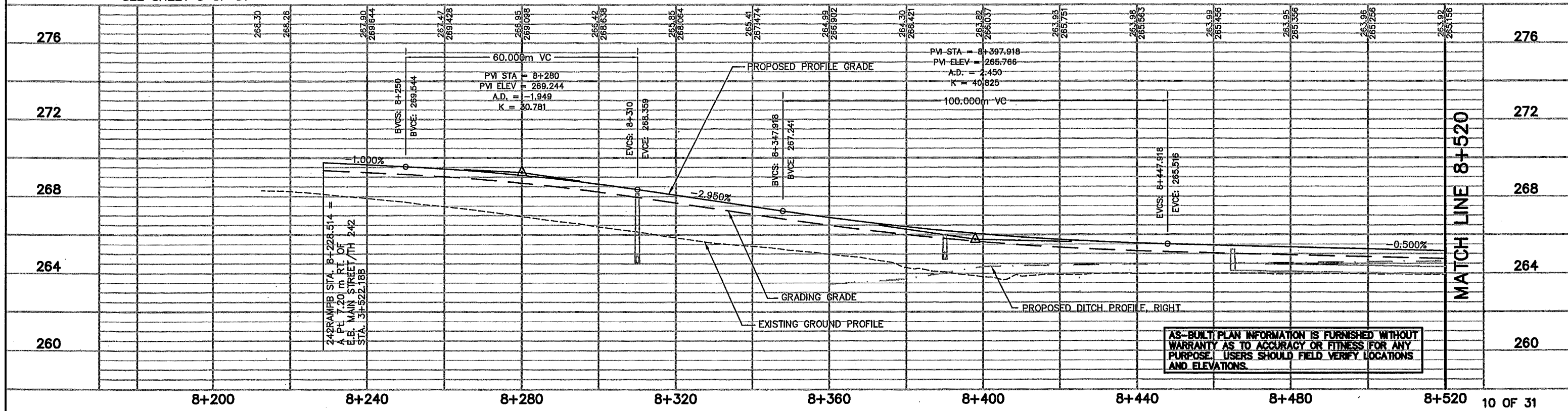
9 OF 31
SHEET NO. 142
539

APBOX
 12E_DRN
 12MHETO
 12E-TXT
 12E-PLN
 12E-CLM
 12F
 12
 12-EUT
 12MHVEG

PLOT DATE: Jun 13, 2000 12:49pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\...epp13.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



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 6 STD. PLATE 7108F TO 7109 REMOVED LETTER DESIGNATION FOR STD. PLATE ADDED CONTROLLED ACCESS 8+285-8+520, LT. AS-BUILT DRAWING
2	TSR	2/27/04	

DESIGN FILE:
33889028

DRAWN BY:
PJM/IKR

DESIGN BY:
KPK

CHKD. BY:
PBD/KPK

DWG. NAME:
242EPP13

DATE:
NOVEMBER 5, 1999



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. Kullb

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

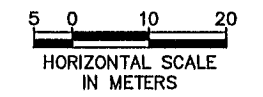
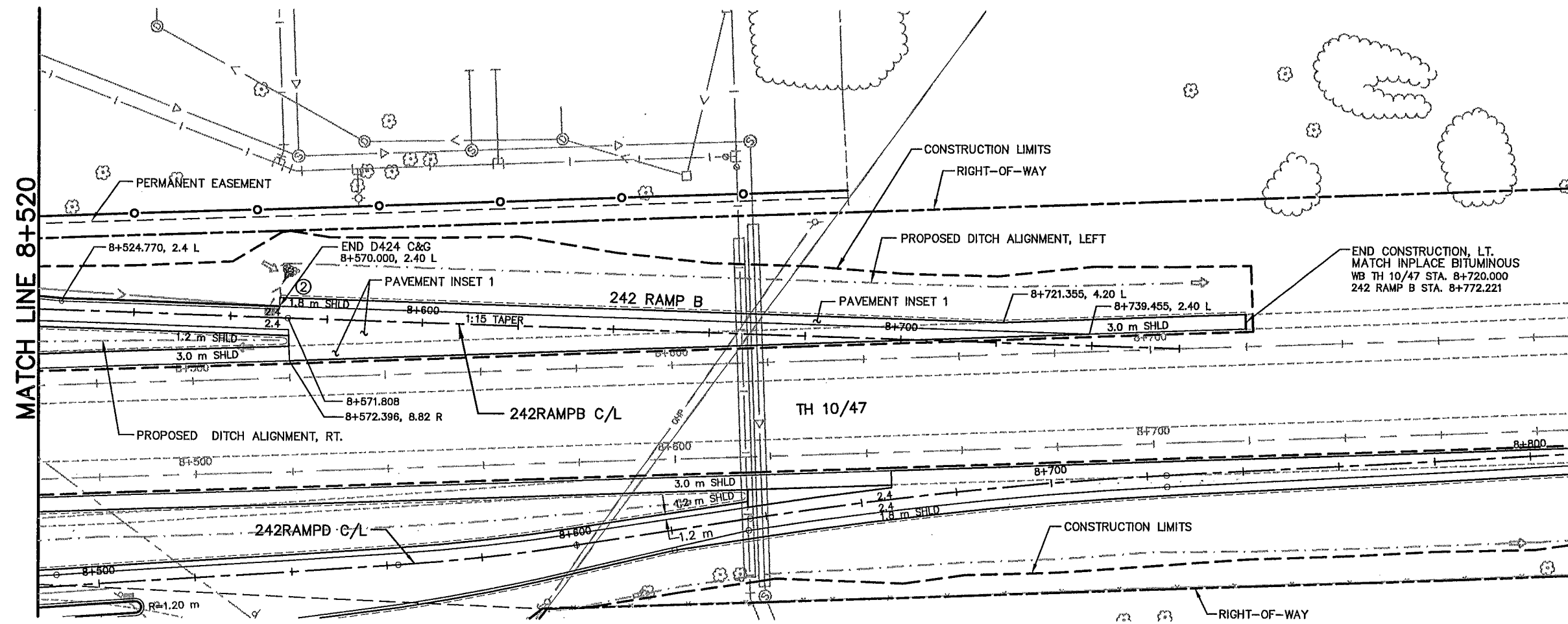
CITY PROJECT 98-20

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

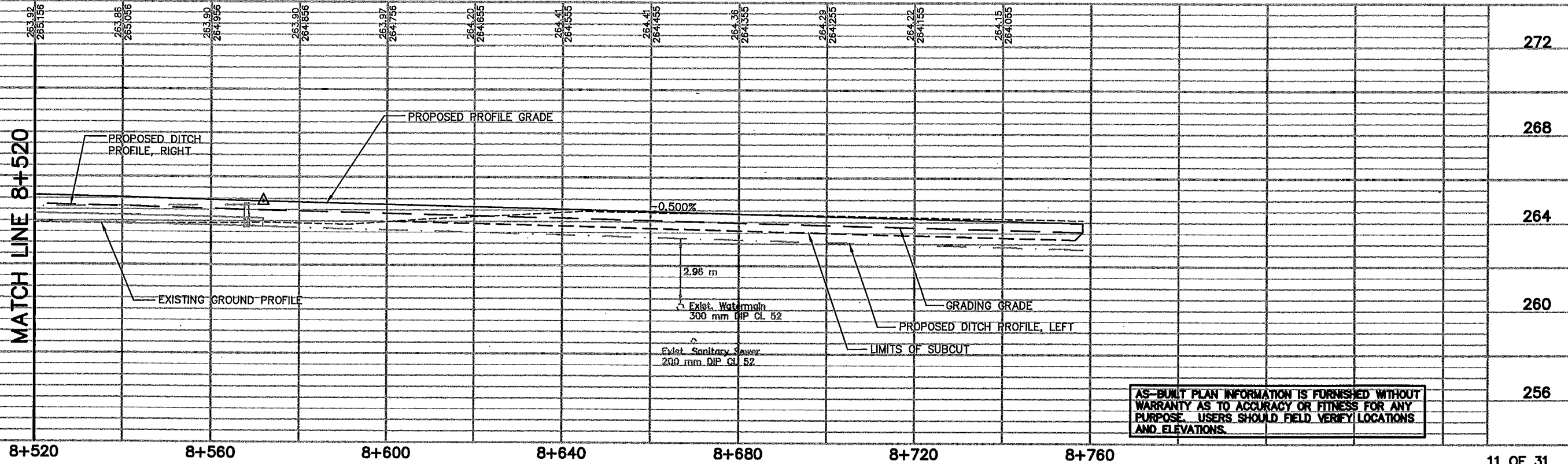
SHEET NO.
143

539

DRAWINGS
 APBOX
 42E-TXT
 42E_DRN
 42EPROF
 42E-PLN
 42E-CLM
 42E
 42-
 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 B824 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

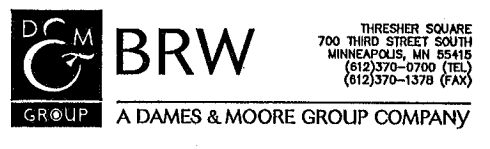


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PLOT DATE: Jun 13 12:45pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH' ppp14.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 710BF TO 7109 REMOVED LETTER DESIGNATION FOR STD. PLATES ADDED CONTROLLED ACCESS 8+520-8+688, LT. AS-BUILT DRAWING
2	TSR	2/27/04	

DESIGN FILE:
 33889028
 DRAWN BY:
 PJM/IKR
 DESIGN BY:
 KPK
 CHKD. BY:
 PBD/KPK
 DWG. NAME:
 242EPP14
 DATE:
 NOVEMBER 5, 1999



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Kevin P. Hill
 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

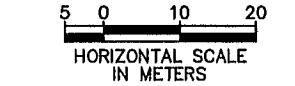
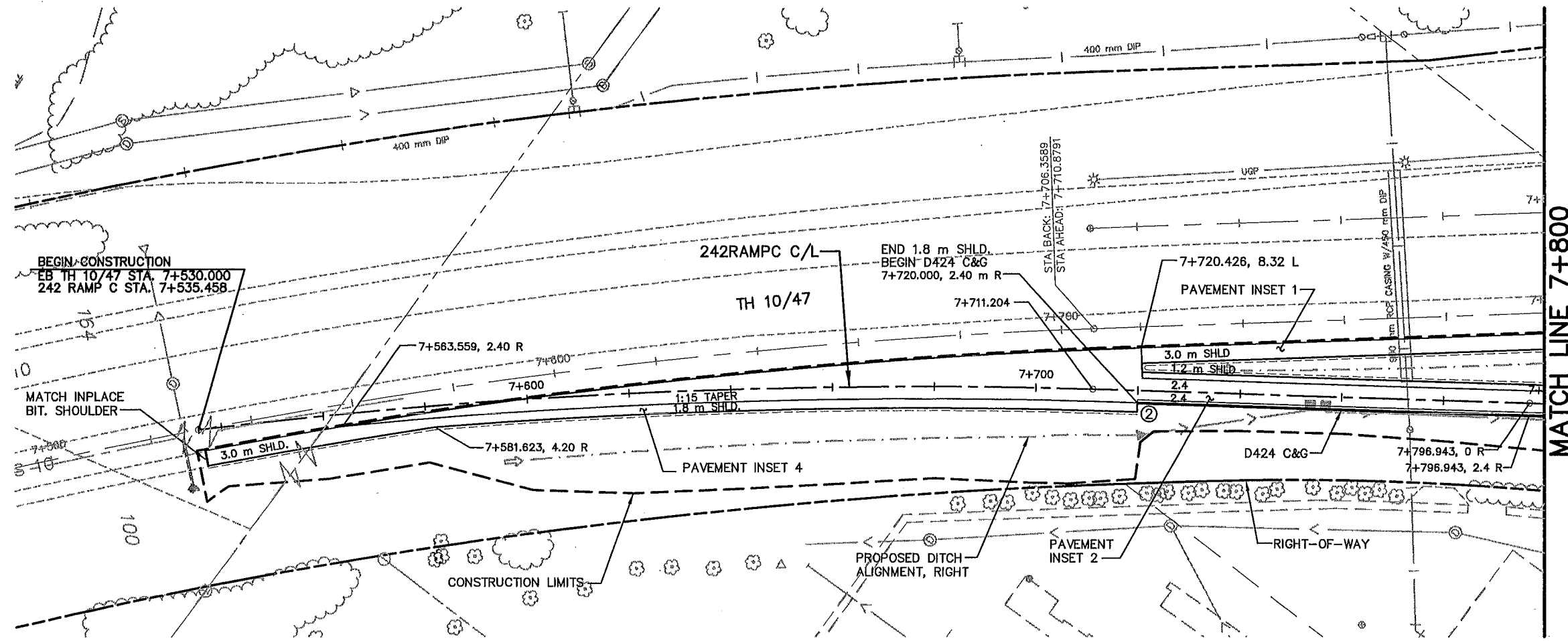
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

SHEET NO.
 144
 539

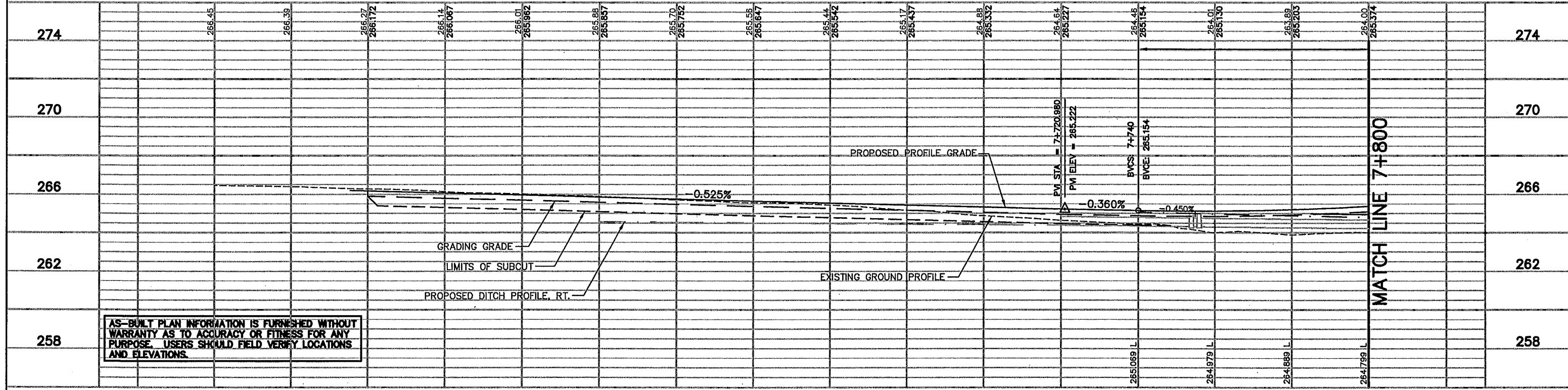
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42E_DRN
42E-TXT
42E-PLN
42E-CLM
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42
42-EUF
42MHVEG
42MHETO

app15.dwg

PLOT DATE: Jan 03 5:45pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH



- 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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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

CHKD. BY:
PBD/KPK

DWG. NAME:
242EPP15

DATE:
NOVEMBER 5, 1999



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



THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P. Kuehl

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

MAIN STREET/T.H. 242 RECONSTRUCTION
RAMP C ACCESS AREA, 242 RAMP C
PLANNED CONSTRUCTION
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 - 138 - 02

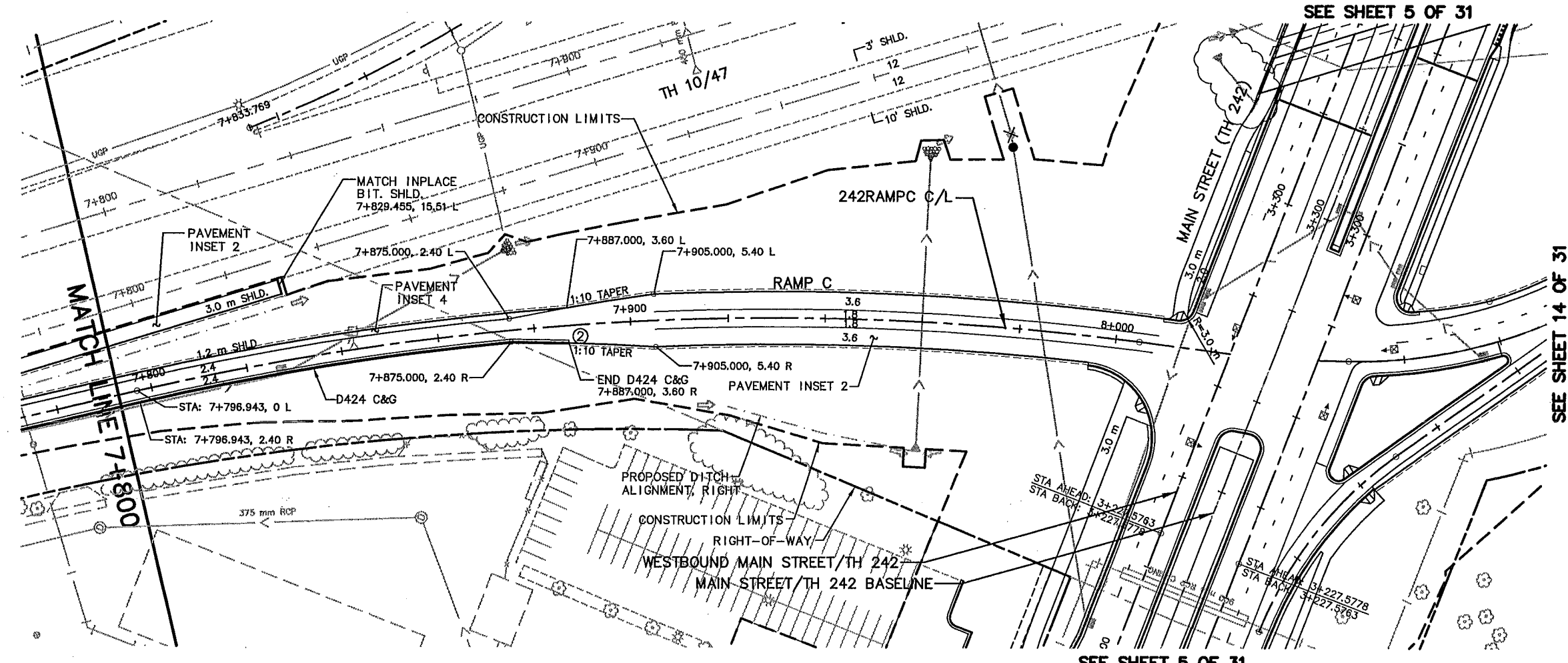
S.A.P. 114 - 127 - 02

SHEET NO.
145

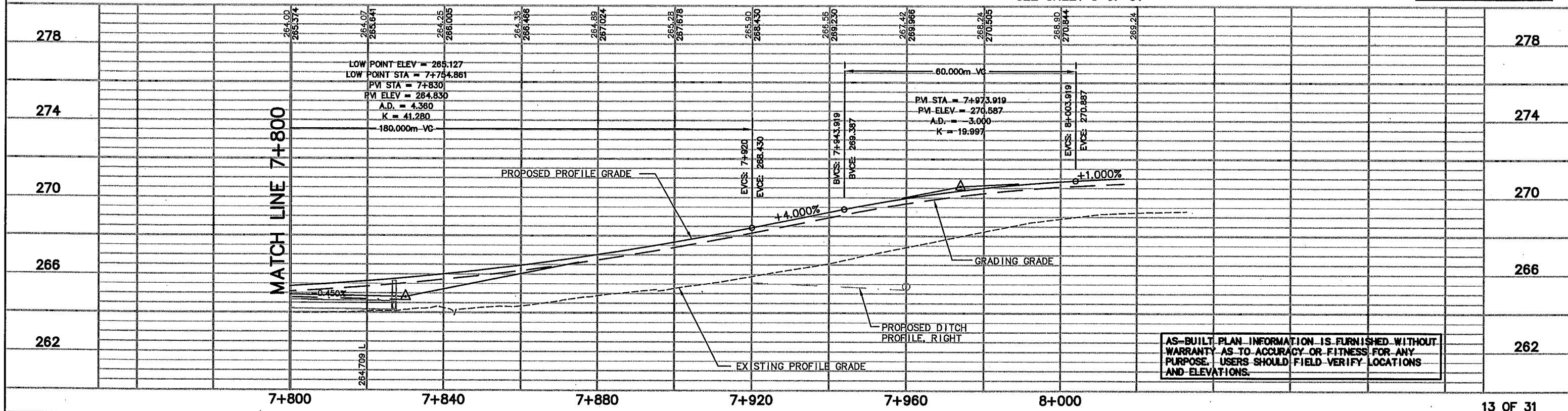
539

42 DRAWINGS
 42 APBOX
 42 42PLNW
 42 42E_DRN
 42 42CLM-W
 42 42EPROF
 42 42E-TXT
 42 42F_PLN
 42 42
 42 42-ESUM
 42 42-EUT
 42 42MHVEG
 42 42MHETO

PLOT DATE: Dec 04 4:36pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SHT...p16.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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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE B STD. PLATE 7108F TO 7109
2	JUL	7/5/00	REMOVED LETTER DESIGNATION FOR STD. PLATES
3	JUL	12/4/00	MOD. REQ. #36: REMOVED WALL FROM PROJECT
4	TSR	2/27/04	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
			AS-BUILT DRAWING

DESIGN FILE: 33889028
 DRAWN BY: PJM/IKR
 DESIGNED BY: PKP
 CHKD. BY: PBD/KPK
 DWG. NAME: 242EPP16
 DATE: NOVEMBER 5, 1999



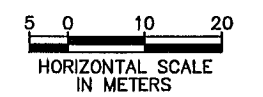
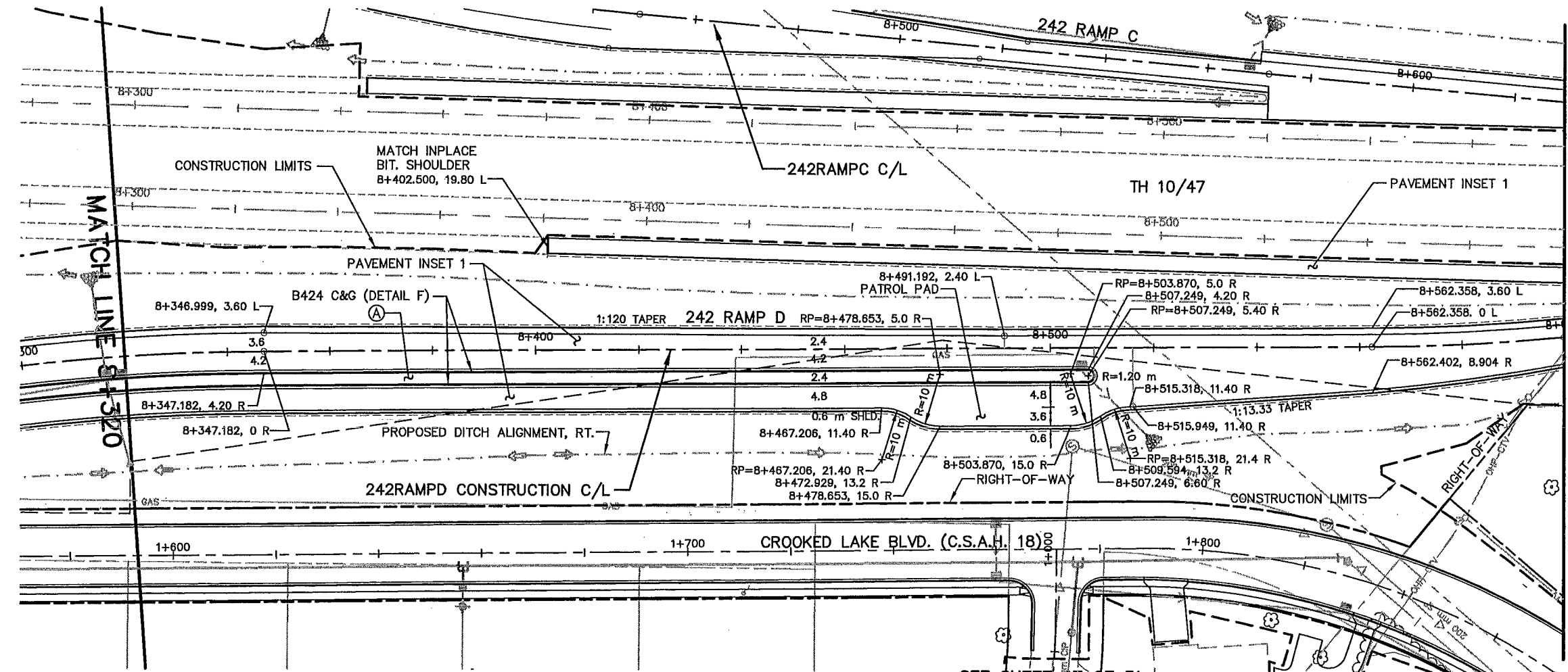
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P. Kuhl
 DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
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

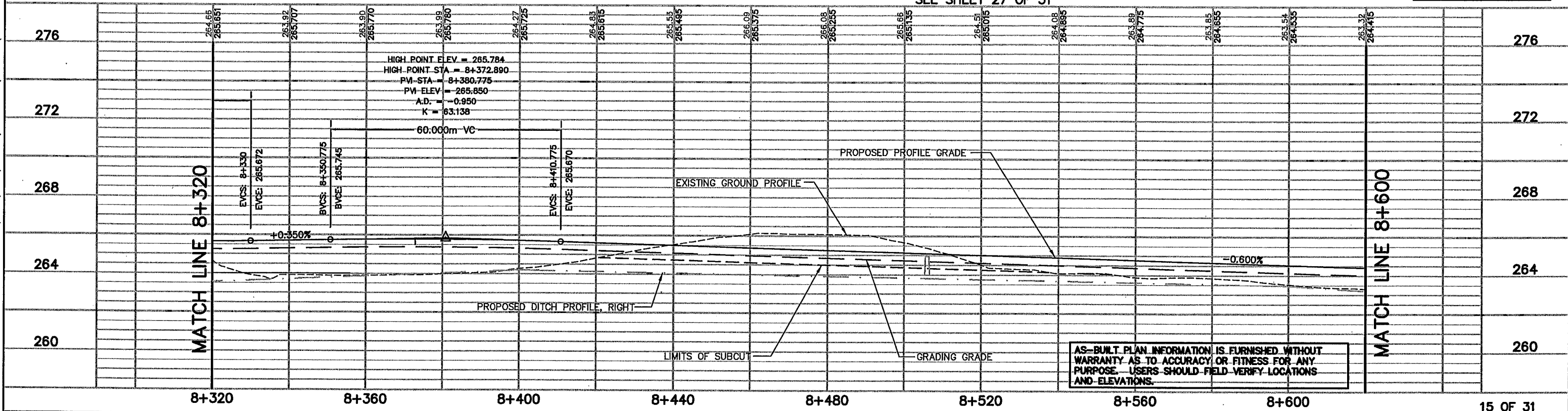
SHEET NO. 146
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- #2CLM-W
- #2ALIW
- #2PLNW
- #2-PUT
- #2E-DRN
- #2-
- #2E-CLM
- #2EPROF
- #2E-ALI
- #2-ESUM
- #2-EUT
- #2MHVEG
- #2MHETO



- 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

PLOT DATE: Jan 06, 2000 11:41am DISK FILE NAME: (14.0) R:\33889\33889028\33889E\PLAN-SHT\242EPP18.dwg



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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 ADDED RAMP D PATROL PAD
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: PJM/IKR	DESIGN BY: KPK/JUL
CHKD. BY: PBD/KPK	DWG. NAME: 242EPP18	
DATE: NOVEMBER 5, 1999		

BRW
A DAMES & MOORE GROUP COMPANY

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55416
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P. Kullb

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

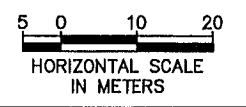
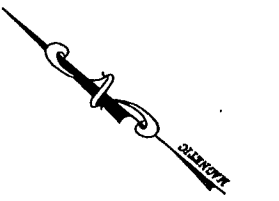
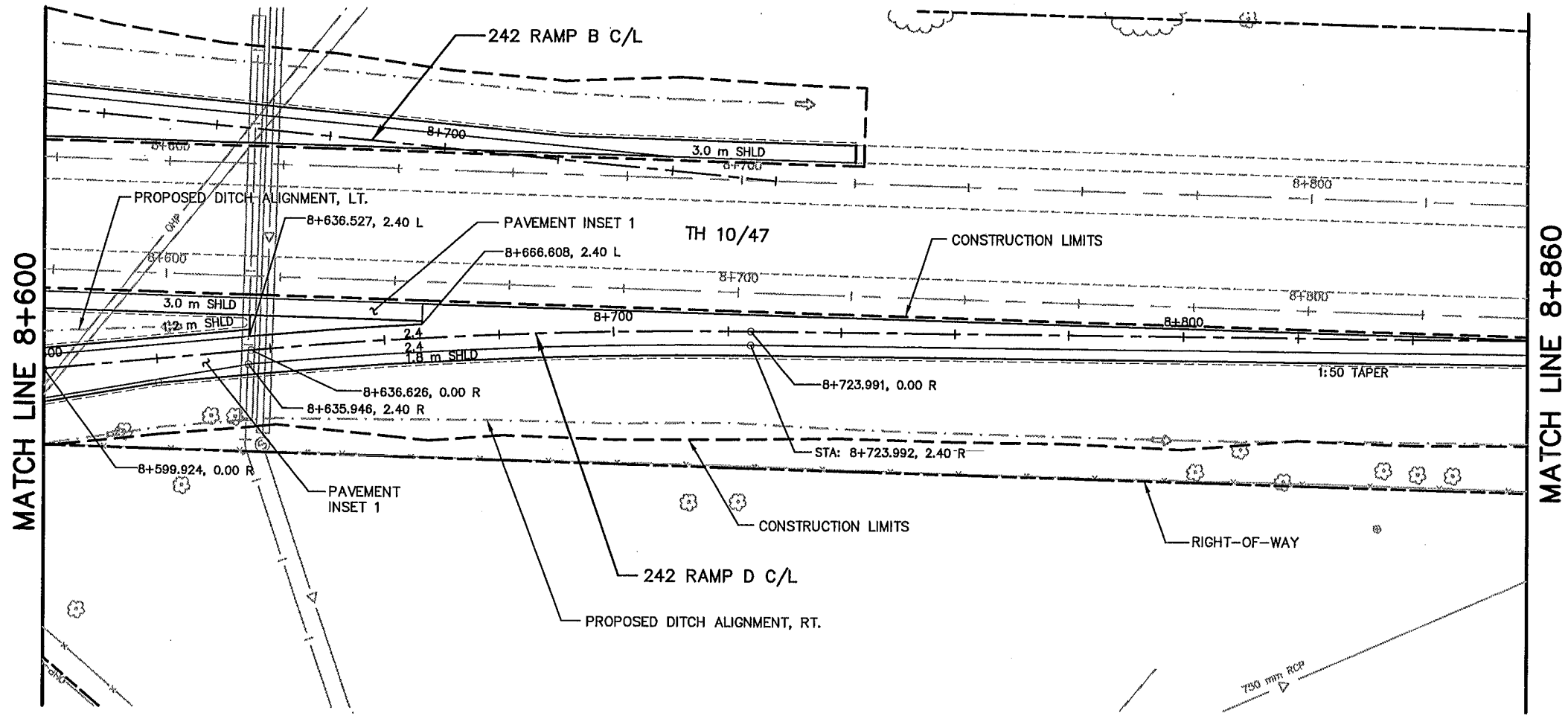
CITY PROJECT 98-20

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	

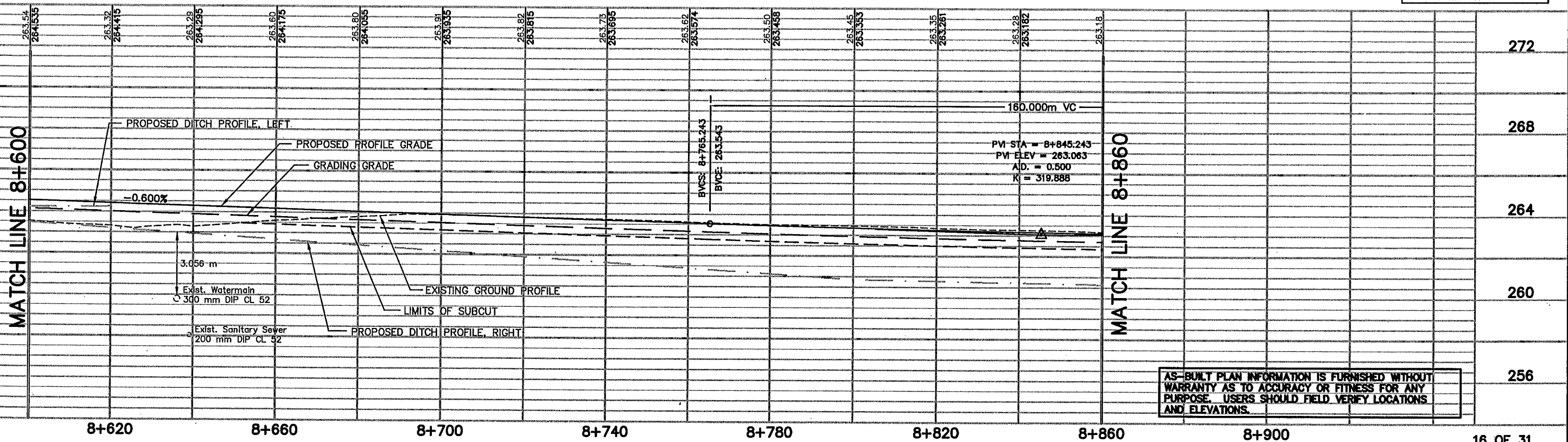
SHEET NO.
148

539

APBOX
12E-TXT
12E-DRN
12E-PLN
12E-CLM
12E-PPF
12
12
12-LUT
12MHVEG
12MHETO



- 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

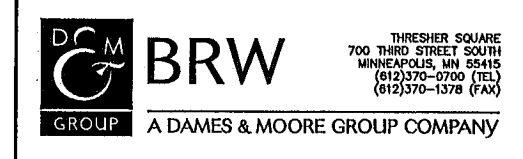


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PLOT DATE: Jan 04 8:35am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH\2app19.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO NOTE 8 CHANGED NOTE 5 STD. PLATE 7109F TO 7109 REMOVED LETTER DESIGNATION FOR STD. PLATES AS-BUILT DRAWING
2	TSR	2/27/04	

DESIGN FILE:
33889028
DRAWN BY:
PJM/IKR
DESIGN BY:
KPK
CHKD. BY:
PBD/KPK
DWG. NAME:
242EPP19
DATE:
NOVEMBER 5, 1999



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

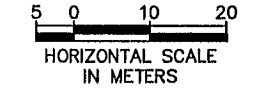
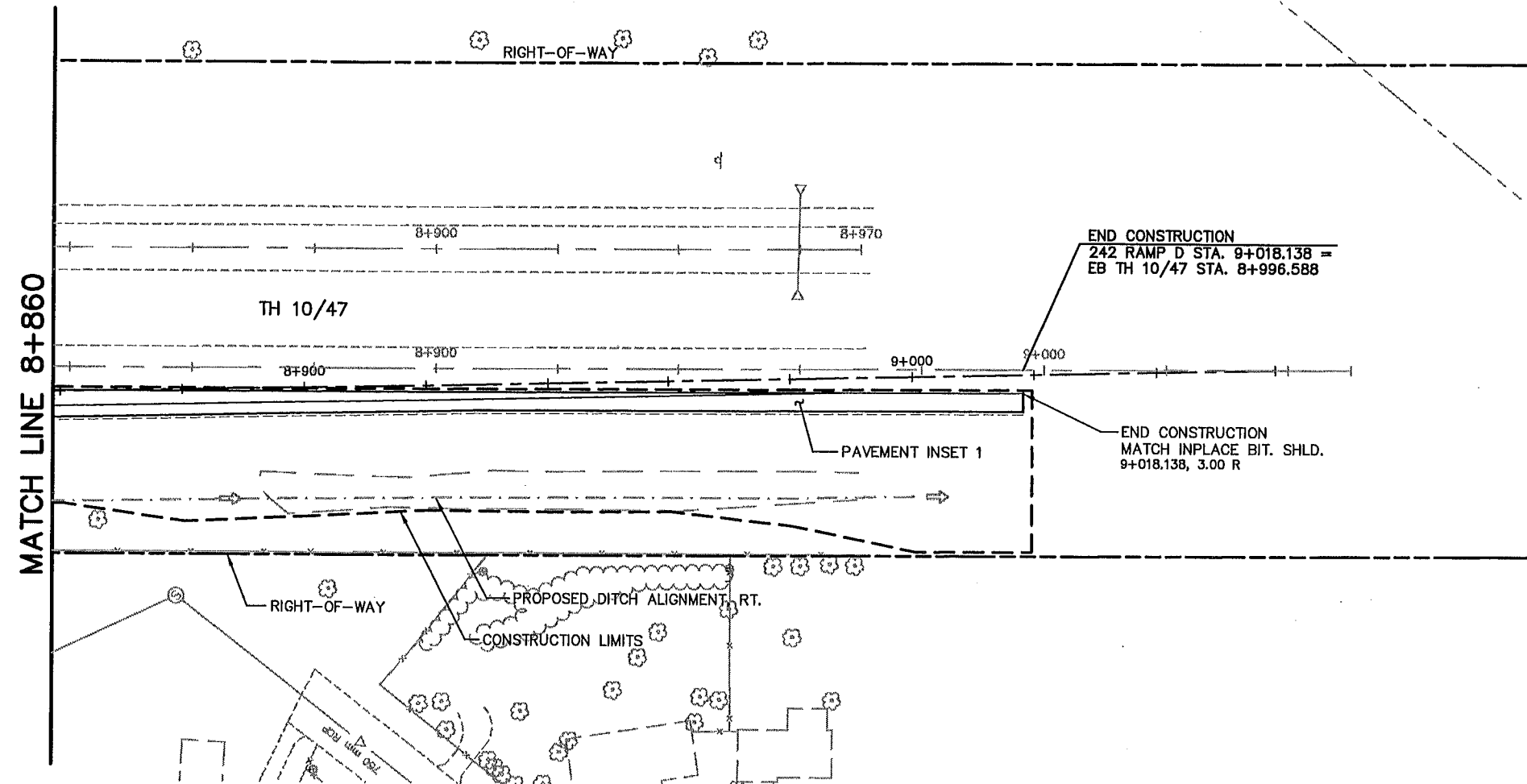
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D, RAMP D MERGE AREA
PLANNED CONSTRUCTION
STATION 8+600.000 TO STATION 8+860.000
CITY PROJECT 98-20

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

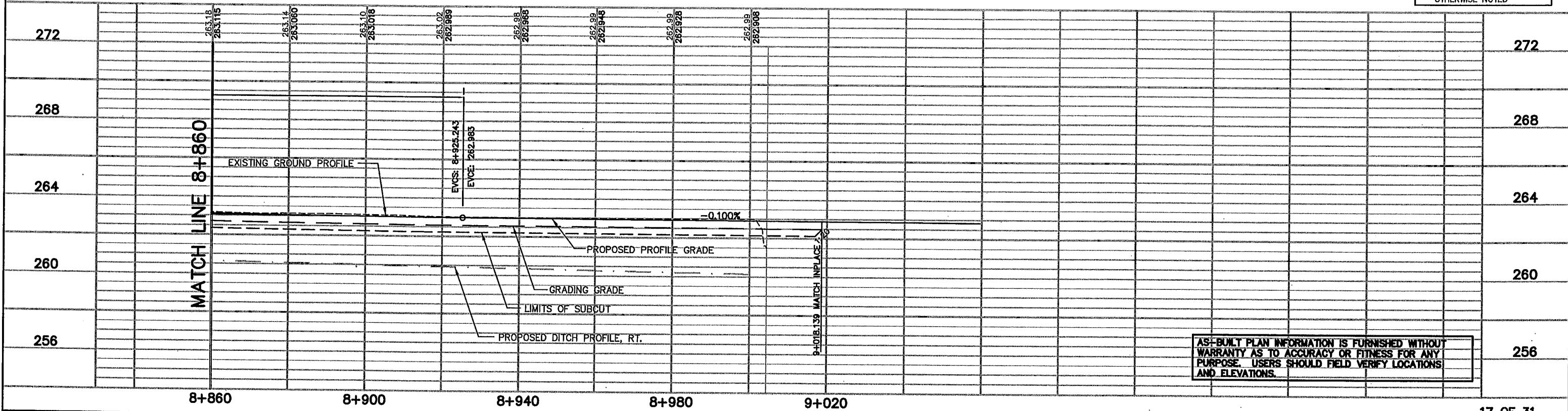
16 OF 31
SHEET NO.
149
539

I2E_DRN
I2E_PBOX
I2E_PROF
I2E_CLM
I2E_PLN
I2E_ALI
I2E
I2MTRVCG
I2MHETO

PLOT DATE: Jan 04, 2004 8:39am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\242EPP20.dwg



- 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
CHKD. BY: PBD/KPK	DWG. NAME: 242EPP20	
DATE: NOVEMBER 5, 1999		

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. Kuhl

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

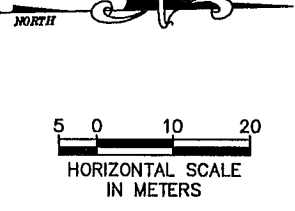
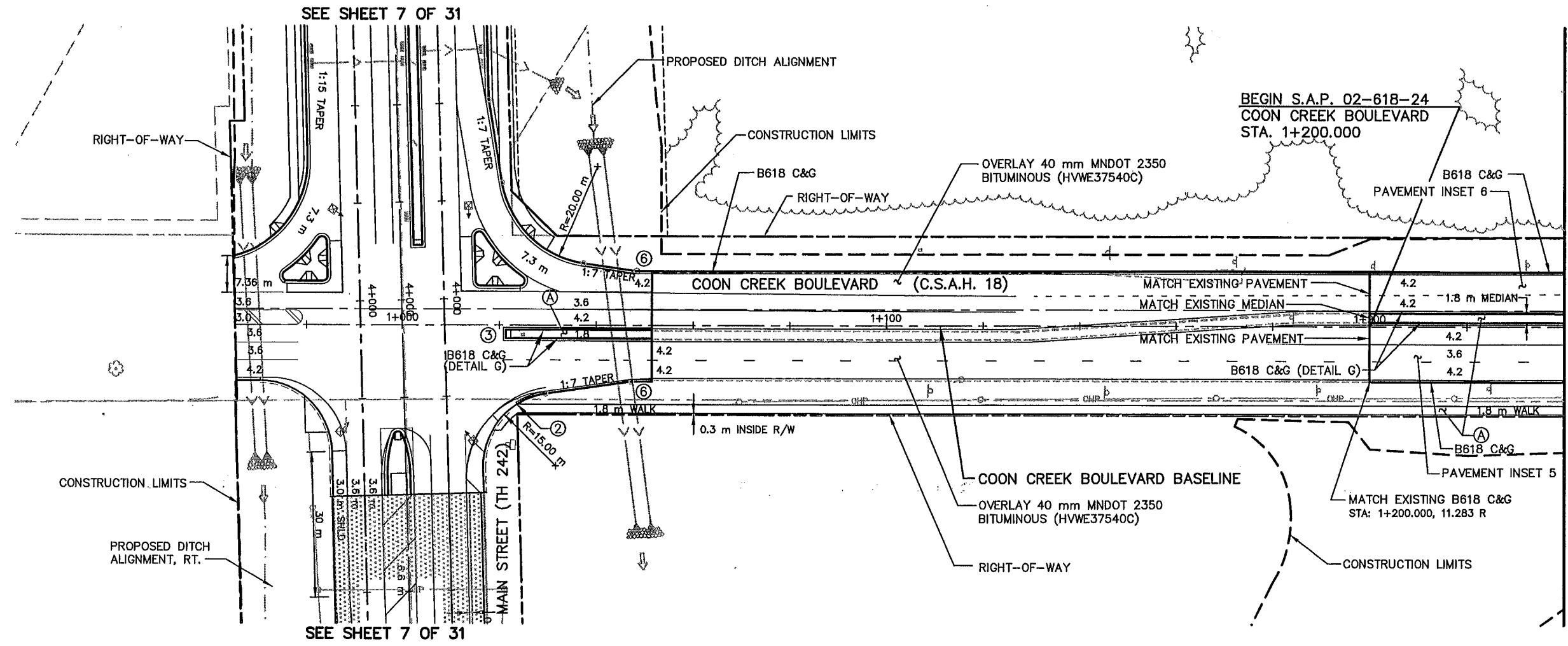
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	150
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 138 - 02	
S.A.P. 114 - 127 - 02	539

2PLN2A
 STRIPE
 PBOX
 2E_DRN
 2E_TXT
 2E-CLM
 2-
 01
 2E
 2-ESUM
 2MHVEG
 2MHETO
 2-EUT

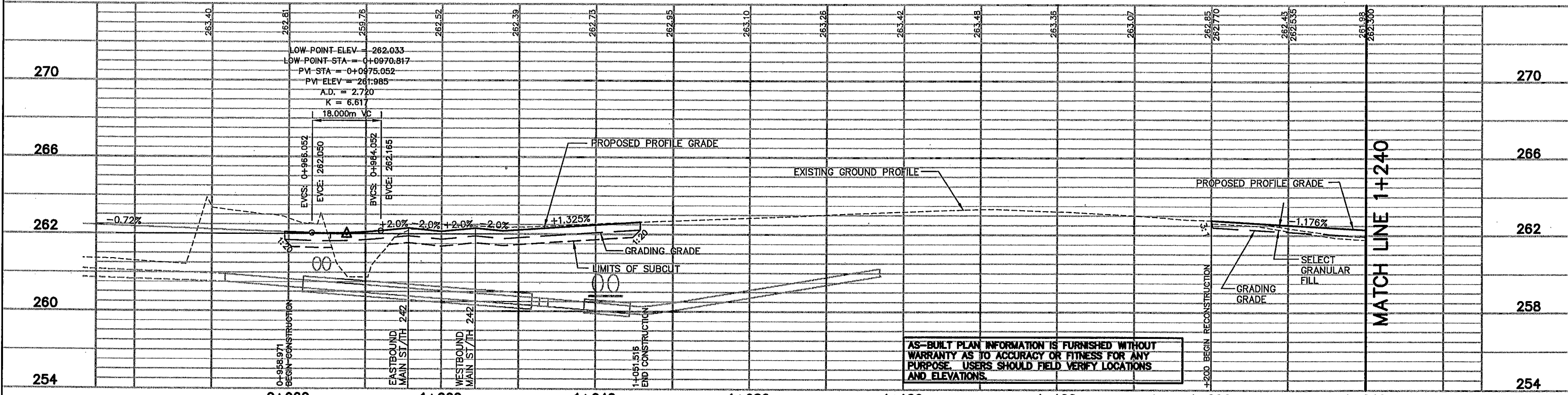
389W\PLAN_SHT\ENGRING\Coonpp01.dwg

000 10:31am DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\3388901

PLOT DATE: Jul



- 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



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	CHANGED STREET GRADE STA 1+200-1+240 CHANGED NOTE 5 STD. PLATE 7108F 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. #26 - 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

CHECKED BY:
PBD/KPK

DWG. NAME:
COONPP01

DATE:
NOVEMBER 5, 1999



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. Xie

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

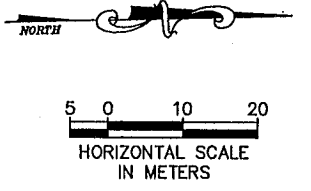
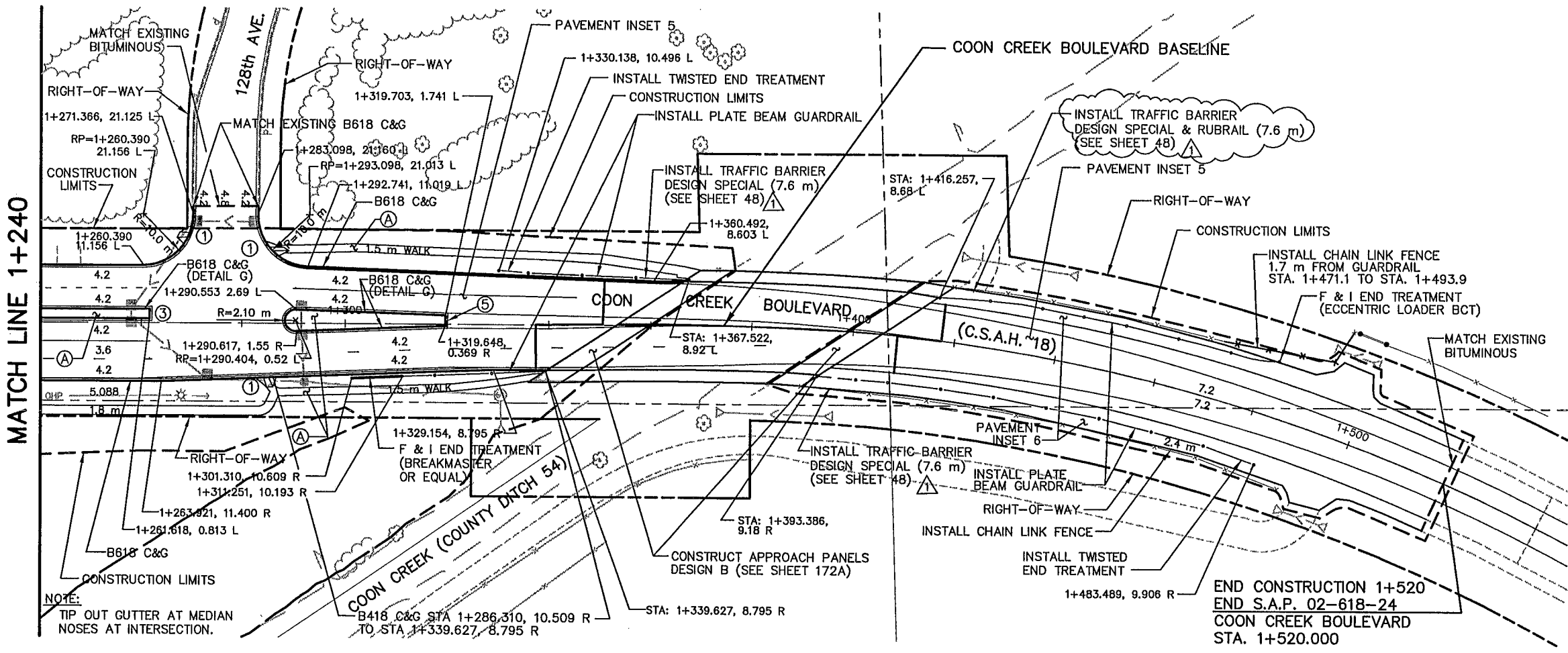
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

SHEET NO.
152

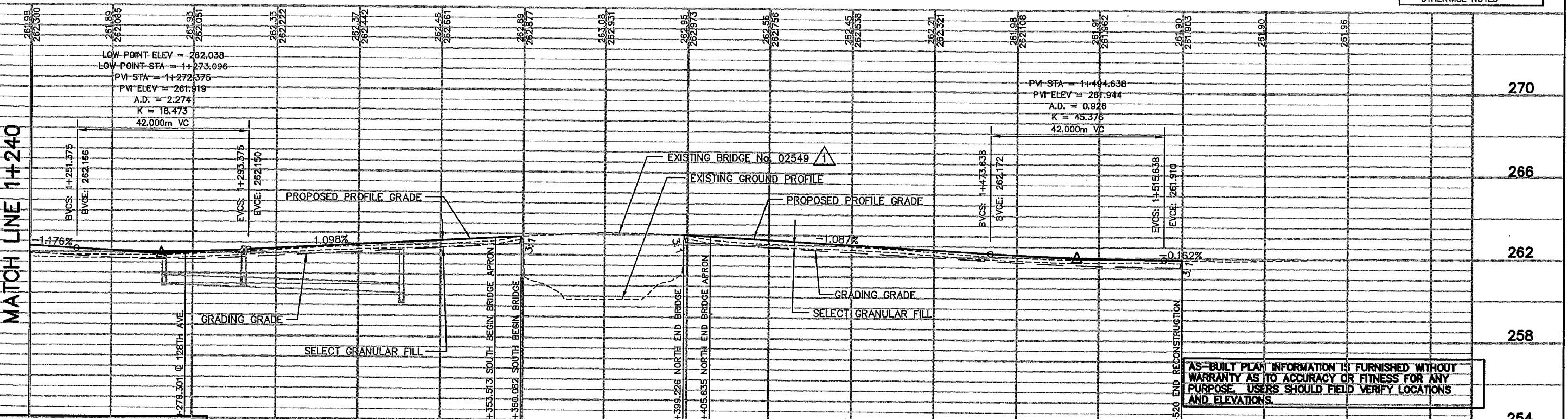
539

STRIP
2E-DRN
PBOX
2E-CLM
2CLM-W
2E-AL
2C
2E-LN
2-ESUM
2MHVEG
2MHETO
2-EUT

PLOT DATE: Dec 12, 2000 4:53pm DISK FILE NAME: (15.0) R:\33889\33889028\33889W\PLAN_SHT\ENGRING\Coonpp02.dwg



- 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.

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
2	JL	2/11/00	CHANGED INSTALL TO F&I END TREATMENT CHANGED NOTE 5 STD. PLATE 7108 TO 7109 REMOVED LETTER DESIGNATION FOR STD. PLATES ADDED 1) MODIFIED APPROACH PANELS, ADDED INSTALL TRAFFIC BARRIER, MODIFIED CONSTR. LIMITS
3	JL	5/15/00	MOD. REQ. #28: REV. CURB 1+284-1+360.6, LT. RT. REV. PROFILE STA. FOR APRON & BRIDGE
4	PMJ	8/2/00	MOD. REQ. # 55: BREAKMASTER AND CURB MODIFICATION
5	JL	9/14/00	MOD. REQ. #63: REVISED PROP. FENCE LOCATION (NW OF BRIDGE)
6	JL	12/12/00	MOD. REQ. #42: ADDED RUBRAIL
7	ISR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ/PMJ
DESIGN BY: KPK
CHKD. BY: PBD/KPK
DWG. NAME: COONPP02
DATE: NOVEMBER 5, 1999



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. Kiehl
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

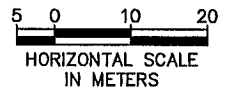
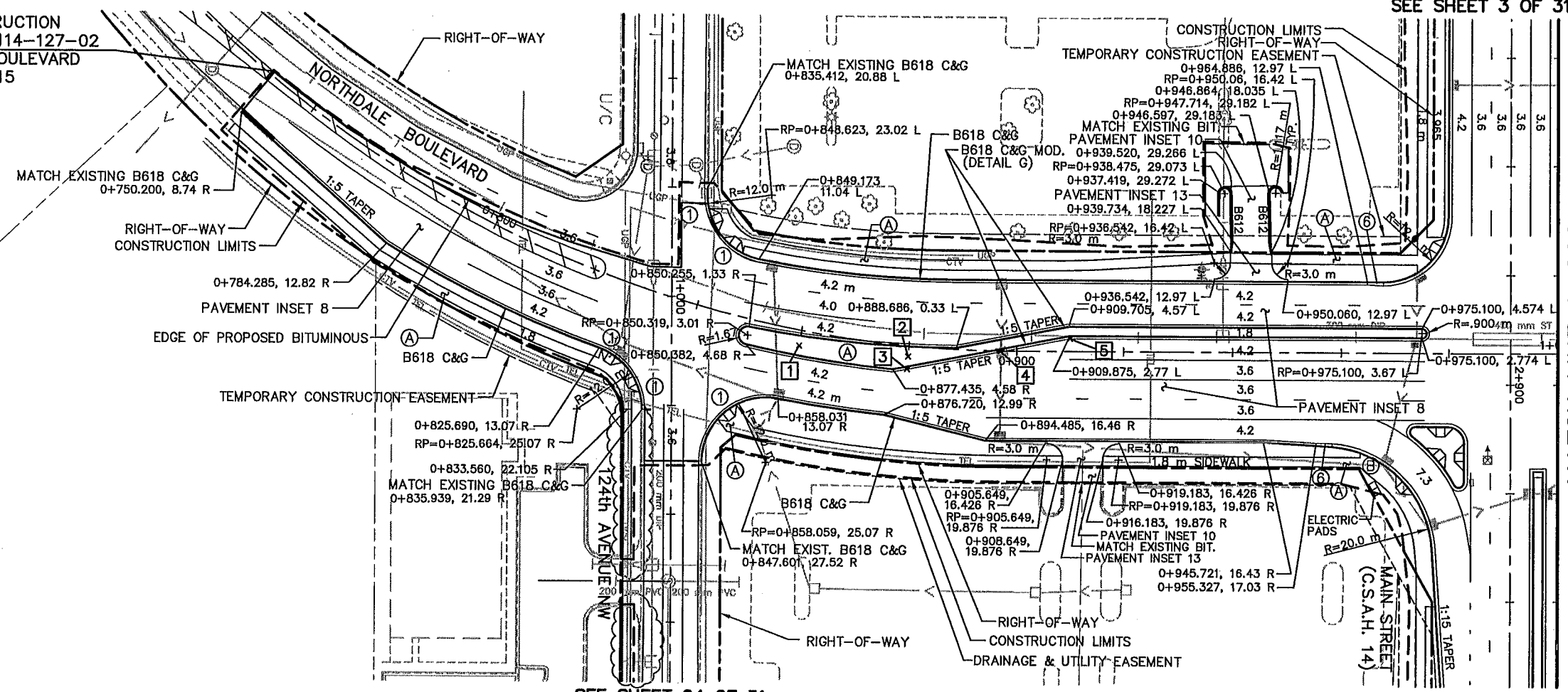
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

20 OF 31
SHEET NO. 153
539

STRIPE
PBOX
ALEPRF
2CLM-W
2-PUT
2E-TXT
2PI
2-
2-A
2MHVEG
2MHETO
2-EUT

BEGIN CONSTRUCTION
BEGIN S.A.P. 114-127-02
NORTHDALE BOULEVARD
STA. 0+750.215

SEE SHEET 3 OF 31



MATCH LINE 1+000

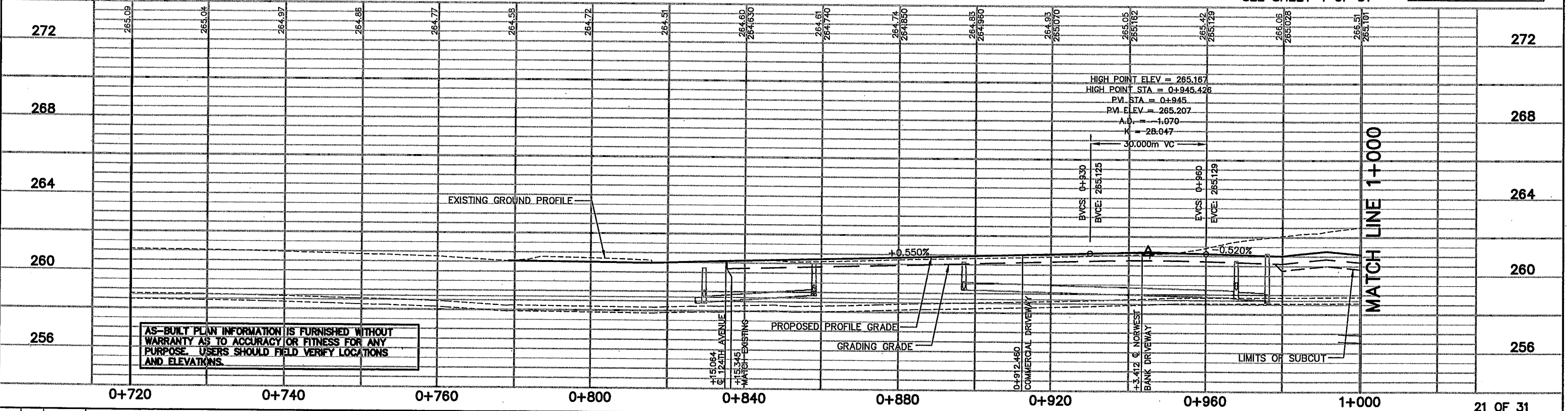
- CONSTRUCTION NOTES:**
- Ⓐ CONCRETE WALK (DETAIL B & INSET 11)
 - Ⓑ COLORED CONCRETE WALK (DETAIL B & INSET 12)
 - Ⓒ BITUMINOUS PATH (DETAIL A)
 - Ⓓ MAINTENANCE STRIP (DETAIL C)
 - ① CONST. CONC. PEDESTRIAN CURB RAMP
 - ② DROP CURB
 - ③ CONST. CONC. APPROACH NOSE, STD. PLATE M7113
 - ④ CONST. CONC. 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

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

SEE SHEET 24 OF 31

SEE SHEET 4 OF 31



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MATCH LINE 1+000

21 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED NOTE 5 STD. PLATE 710BF TO 7109
2	IKR	6/01/00	REMOVED LETTER DESIGNATION FOR STD. PLATES 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	JUL	8/09/00	MOD. REQ. #58: DEL WALK 124th AVE. 1+000.8-1+117.4, RT
4	JUL	9/07/00	MOD. REQ. #59: MODIFIED BANK ENTRANCE
4	PMJ	4/30/01	MOD. REQ. #66: ADDED CONC. WALK
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
PJM
DESIGN BY:
KPK/JUL
CHKD. BY:
PBD/KPK
DWG. NAME:
DALEPP01
DATE:
NOVEMBER 5, 1999



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



THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

A DAMES & MOORE GROUP COMPANY

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

**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 00 6:29pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S1...RING\dalepp01.dwg

PBOX
 I2CLM-W
 I2E-TXT
 STRIPE
 I2-ALIW
 IALEPRF
 I2-PIIT
 I8F
 I2I
 I2-EJUM
 I2MHVEG
 I2MHETO
 I2-EUT

PLOT DATE: Sep 00 3:29pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_5...N\GRING\dalepp02.dwg

SEE SHEET 3 OF 31

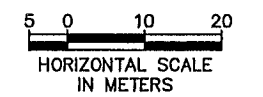
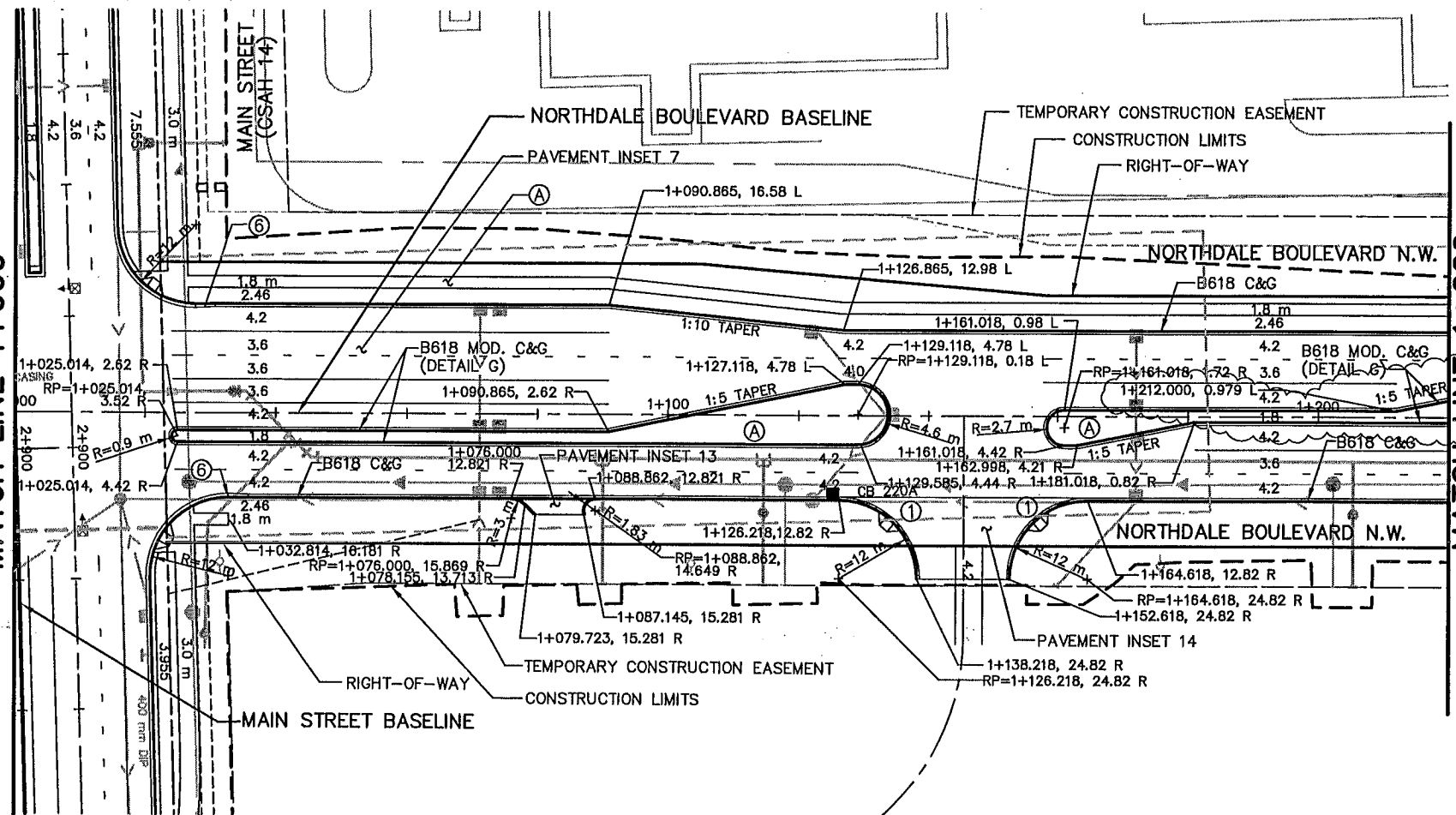
SEE SHEET 4 OF 31

MATCH LINE 1+000

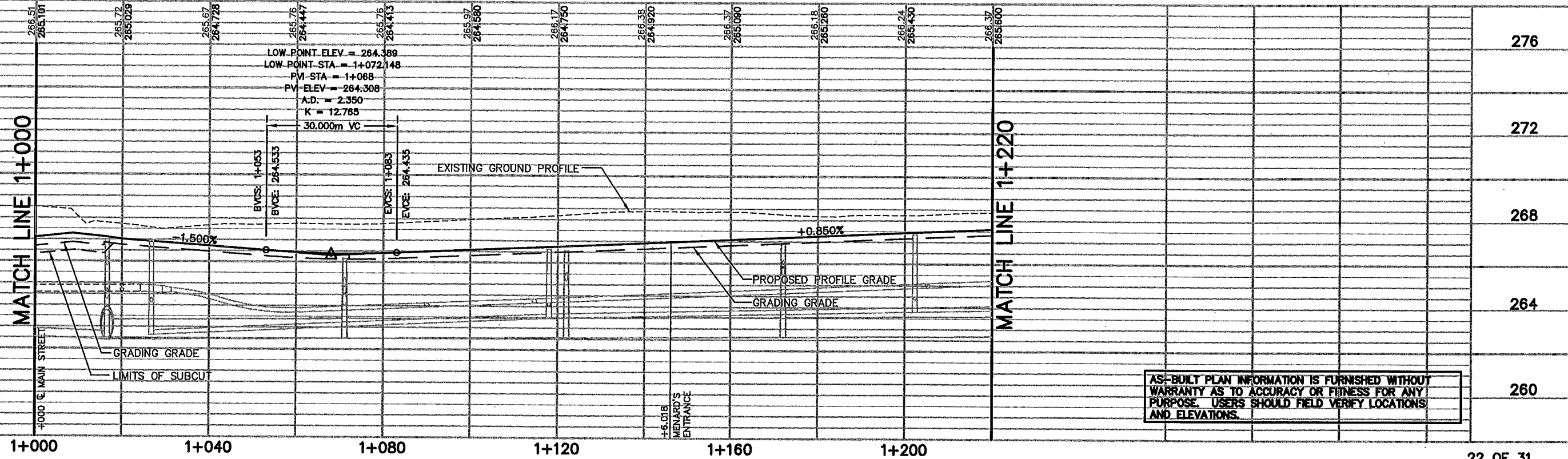
MATCH LINE 1+000

MATCH LINE 1+220

MATCH LINE 1+220



- 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 REFERENCE FOR STD. PLATES
2	JUL	5/25/00	MOD. REQ. #32: ADDED COMMERCIAL D/W ENTRANCE
3	JUL	8/09/00	MOD. REQ. #56: REMOVED WALK 1+032.814-1+288.0, RT.
4	JUL	9/12/00	MOD. REQ. #64: 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/JUL
 CHKD. 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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 DATE: 11/5/99 MINN. REG. NO. 23211

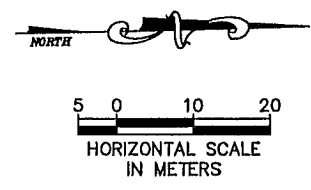
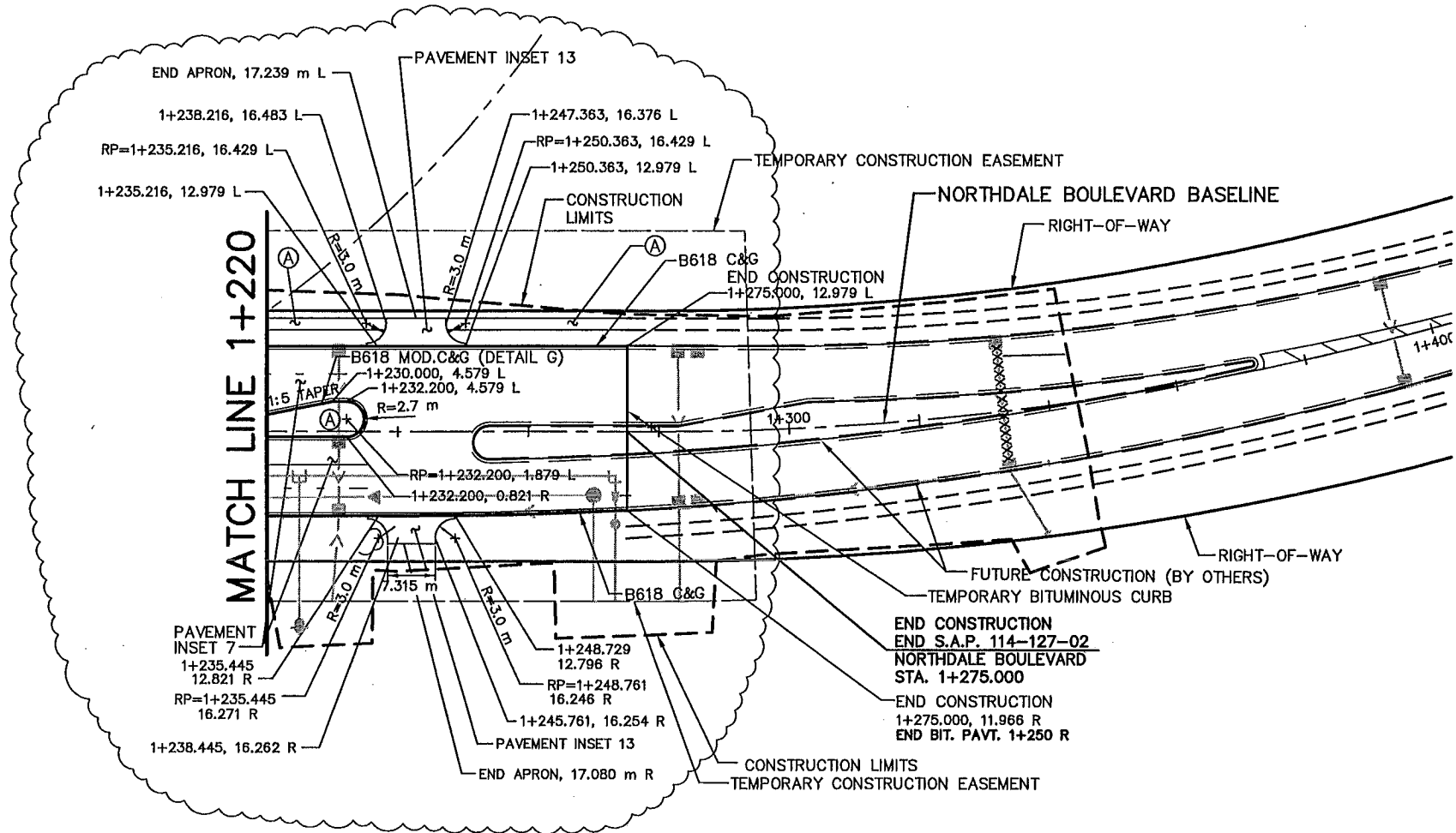
MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
 PLANNED CONSTRUCTION
 STATION 1+000.000 TO STATION 1+220.000
 CITY PROJECT 98-20

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

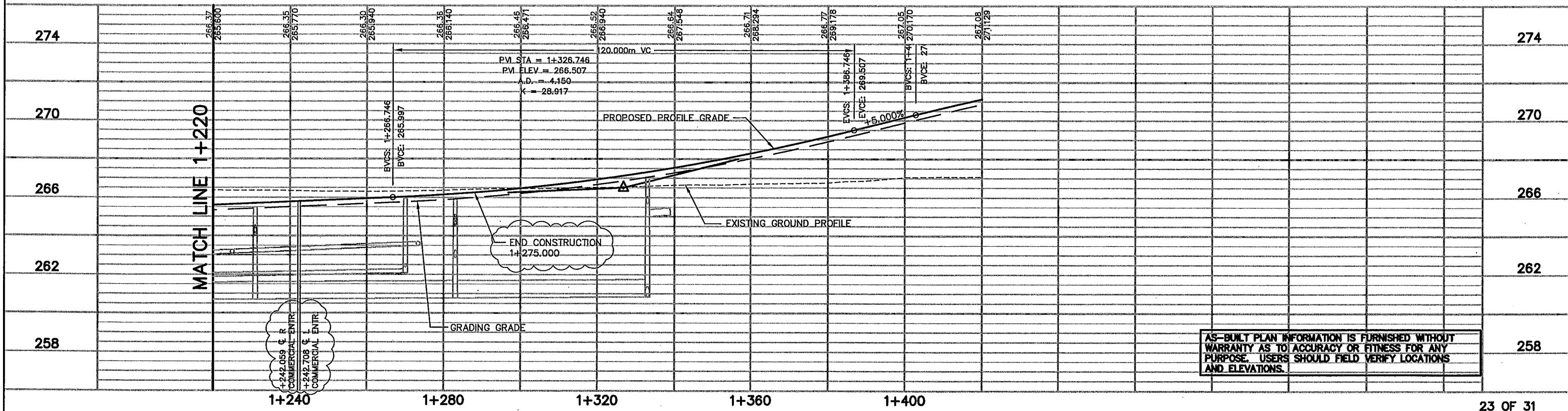
SHEET NO.
 155
 539

12-ESUM
12-PBOX
12-CCLM-W
12E-TXT
12-STRIP
12-ALI W
12-ALF
12
12
12MHVEG
12MHETO
12-EUT

PLOT DATE: Oct 0 6:12pm J00
DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_11.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



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 STA/OFFSETS FOR MEDIAN CONSTRUCTION 1+278
2	IKR	5/25/00	MOD. REQ. #32: ADDED COMMERCIAL D/W ENTRANCE
3	JUL	8/08/00	MOD. REQ. #58: REMOVED WALK 1+032.614-1+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/JUL

CHCKD. BY:
PBD/KPK

DWG. NAME:
DALEPPO3

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. Kiehl

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**

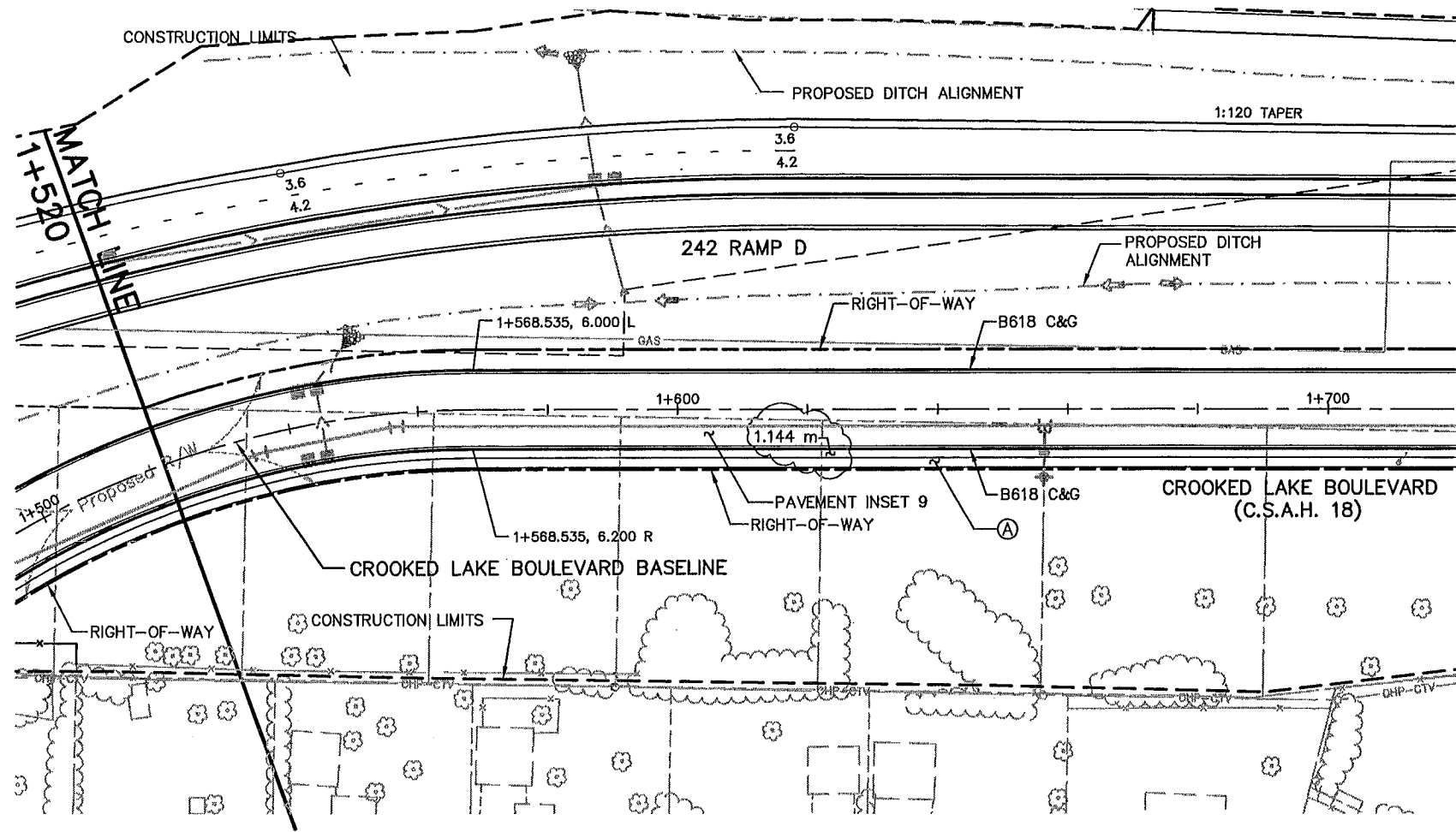
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)

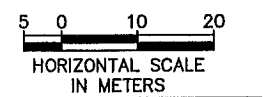
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO.
156
539

DRAWINGS
 X
 A-W
 DRN
 PLN
 CLM
 TXT
 RF
 UT
 IW
 LW
 SU
 VEL
 ETO
 UT
 PLOT DATE: Apr 04 3:08pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S\GRING\124pp03.dwg

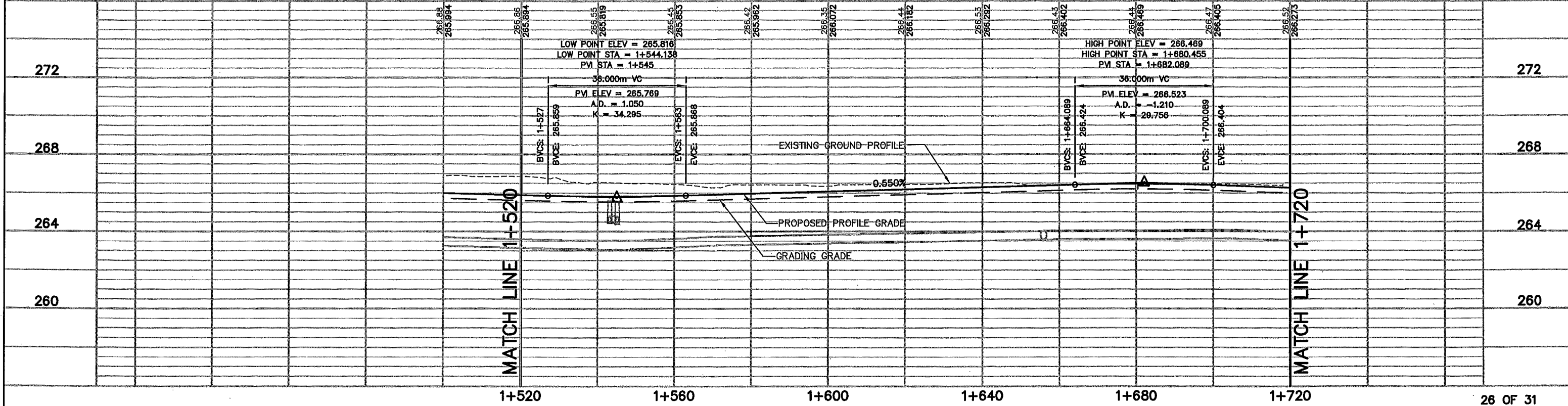


MATCH LINE 1+720



- 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 710BF TO 7109 REMOVED LETTER DESIGNATION FOR STD. PLATES LABELED PAW
2	JUL	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/JUL
 CHKD. BY:
 PBD/KPK
 DWG. NAME:
 124PP03
 DATE:
 NOVEMBER 5, 1999

BRW
 THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)
 ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.
 A DAMES & MOORE GROUP COMPANY

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

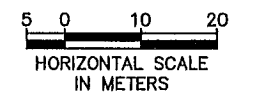
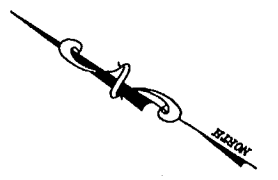
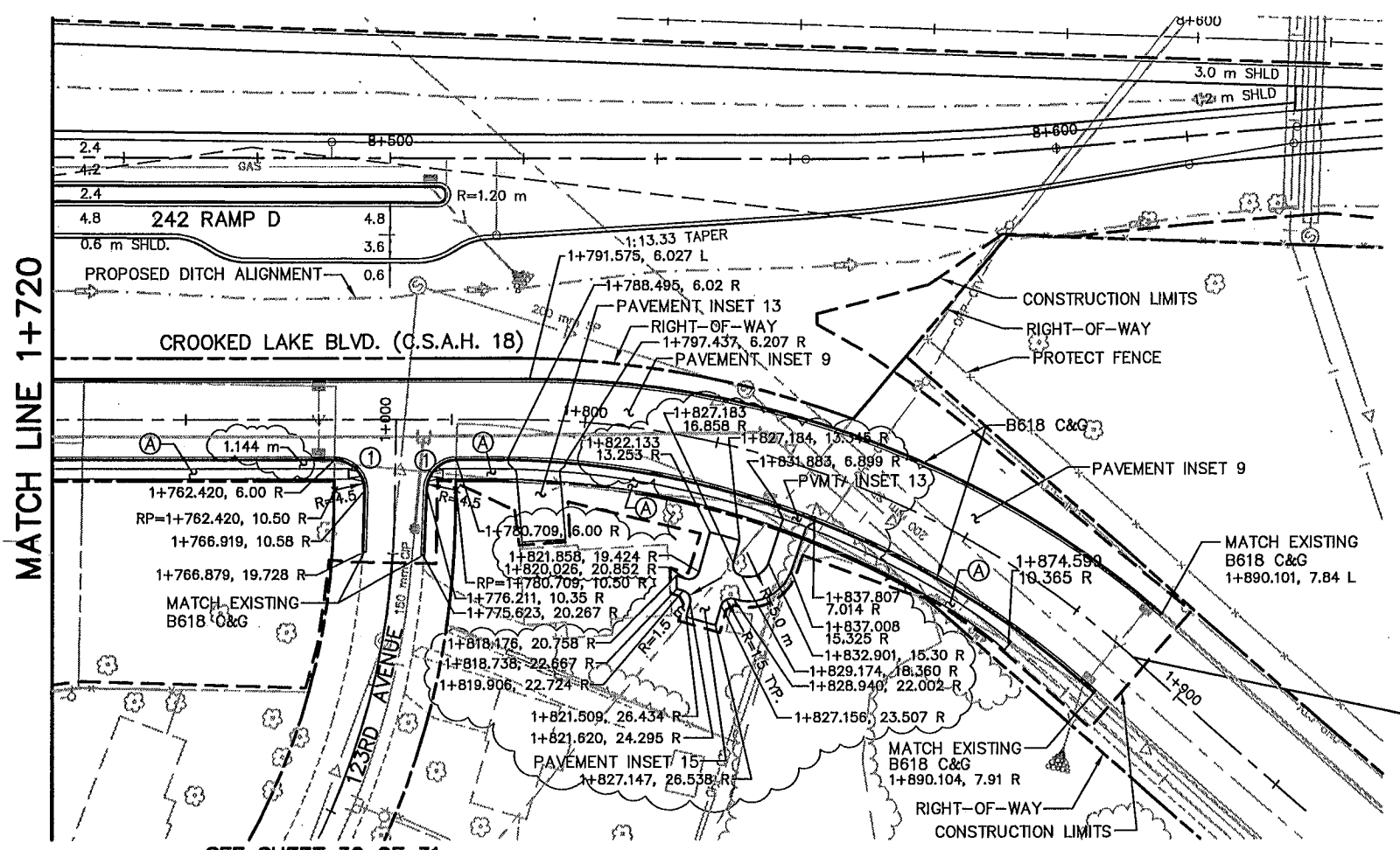
MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BLVD. N.W. (C.S.A.H. 18)
 PLANNED CONSTRUCTION
 STATION 1+520.000 TO STATION 1+720.000
 CITY PROJECT 98-20

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

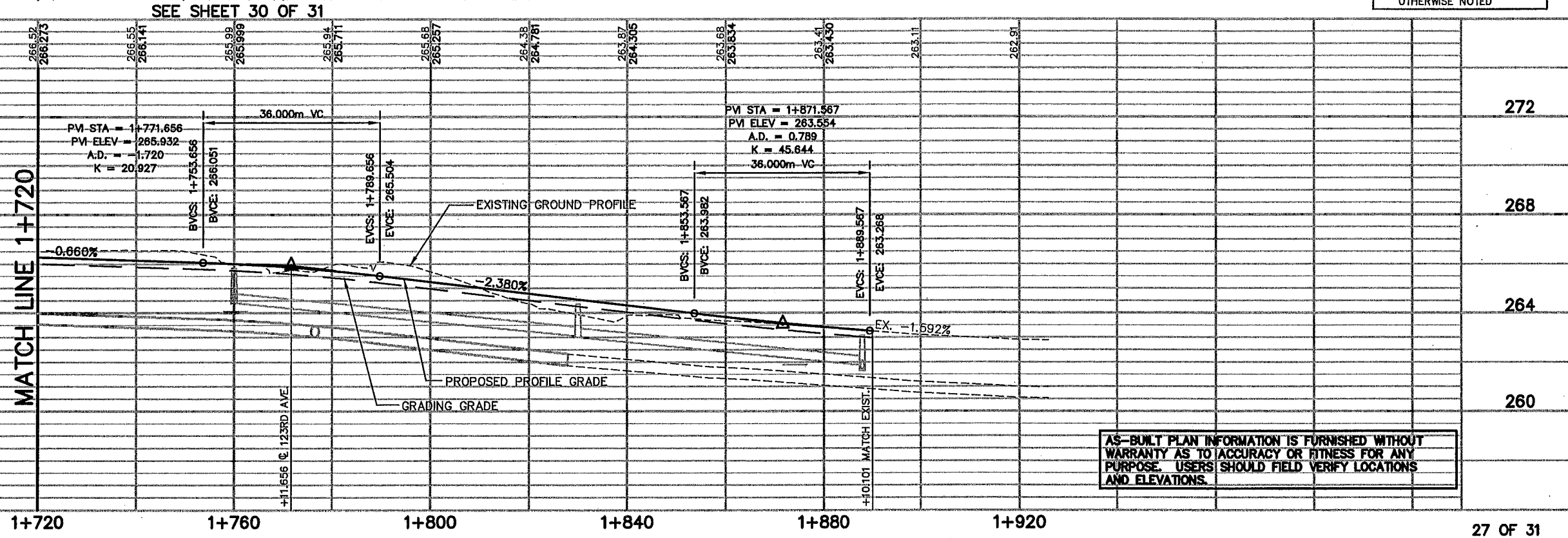
12E-ALI
12E-ALW
12E-PLN
12E-TXT
12E-CLM
12E-DRN
12E-PLW
12-ALIW
12-ESUM
12MHVEG
12MHETO
12-EUT

PLOT DATE: Apr 04 3:08pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...NDRING\124pp04.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) 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

END CONSTRUCTION
END S.A.P. 114-136-02
CROOKED LAKE BOULEVARD
STA. 1+890.110



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 6 STD. PLATE 710BF TO 7109 REMOVED LETTER DESIGNATION FOR STD. PLATES REVISED S.A.P. No., ADDED RAMP D PATROL PAD
2	JUL	8/09/00	MOD. REQ. #58: REVISED WALK WIDTH FROM 1.8 TO 1.5 m
3	JUL	9/08/00	MOD. REQ. #65: MODIFIED DRIVEWAY DESIGNS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028

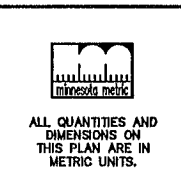
DRAWN BY:
PMJ

DESIGN BY:
KPK/JUL

CHCKD. BY:
PBD/KPK

DWG. NAME:
124PP04

DATE:
NOVEMBER 5, 1999



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
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

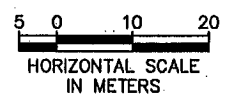
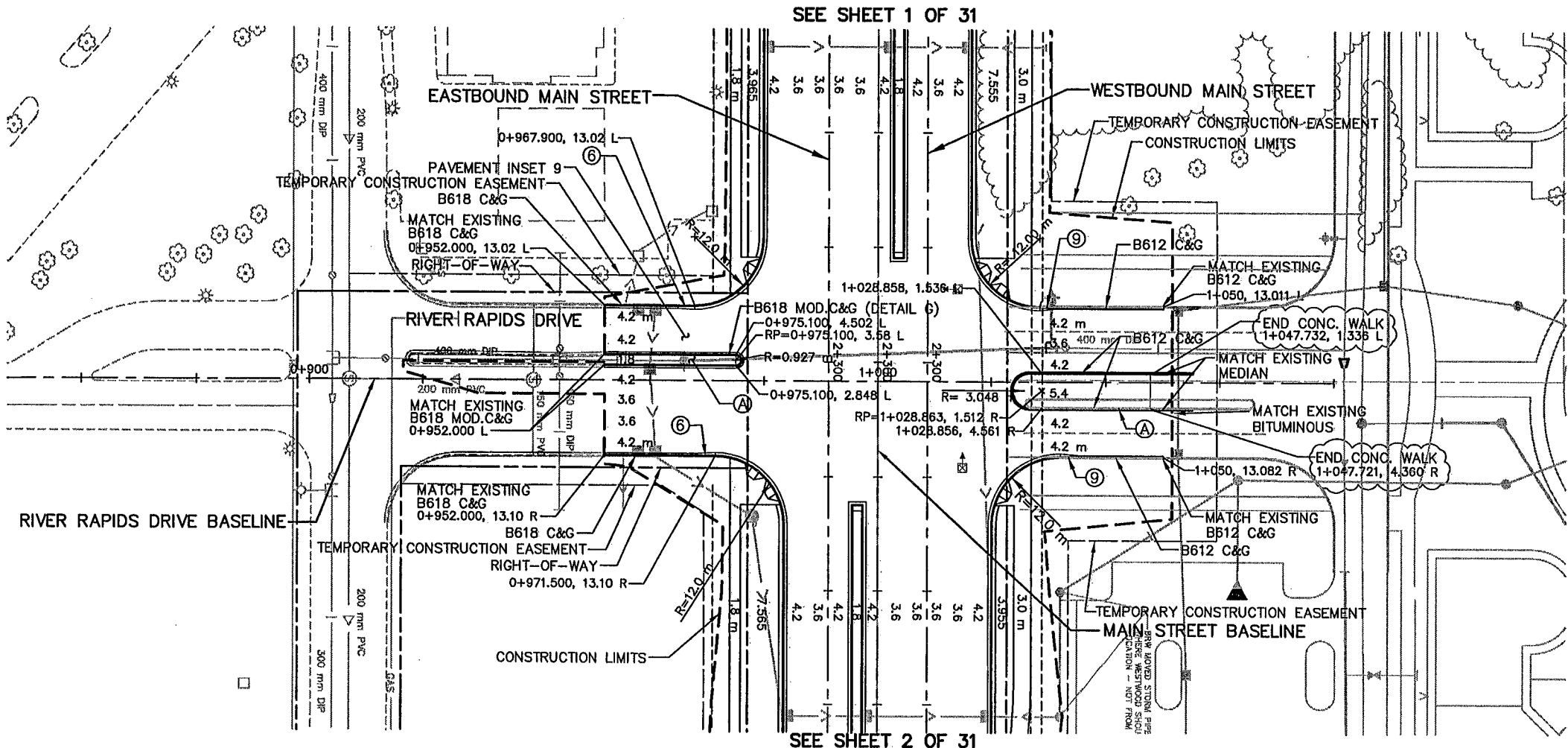
SHEET NO.
160

27 OF 31

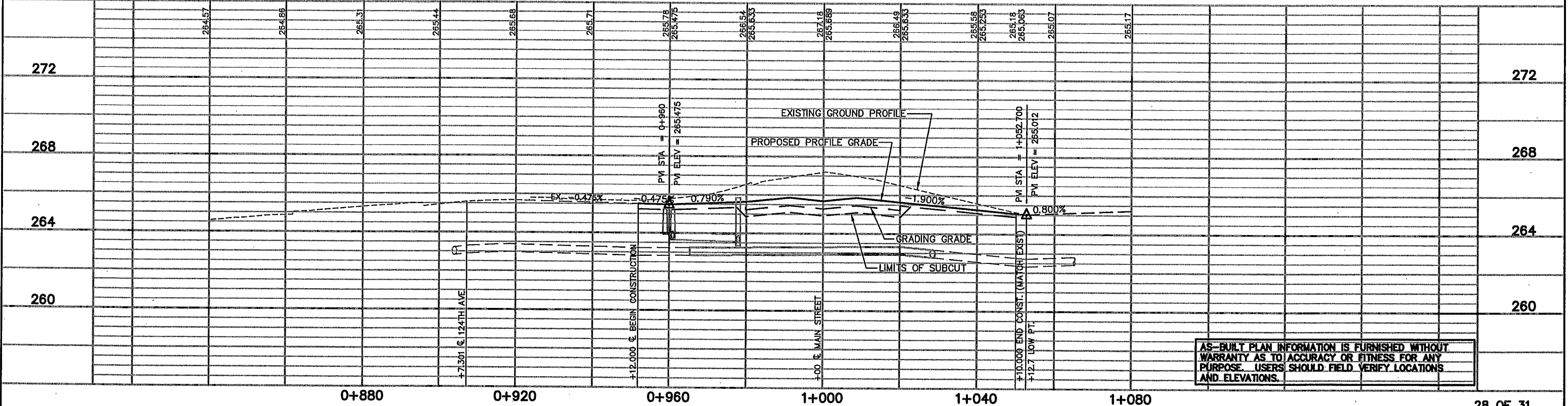
539

PBOX
SE-PRF
86UTIL
86SITE
2CLM-W
2E-T
2-
2-ESUM
2-ALI
2MHVEG
2MHETO
2-EUT

PLOT DATE: Jul 26, 1:31pm
DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT1\RING\Rosepp01.dwg



- 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 7109F TO 7109 REMOVED LETTER DESIGNATION FOR STD. PLATES Labeled R/W & T.C.E.
2	JLL	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/JLL

CHKD. BY:
PBD/KPK

DWG. NAME:
ROSEPP01

DATE:
NOVEMBER 5, 1999



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. Kullb

DATE: 11/8/99 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

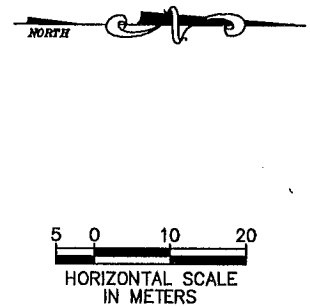
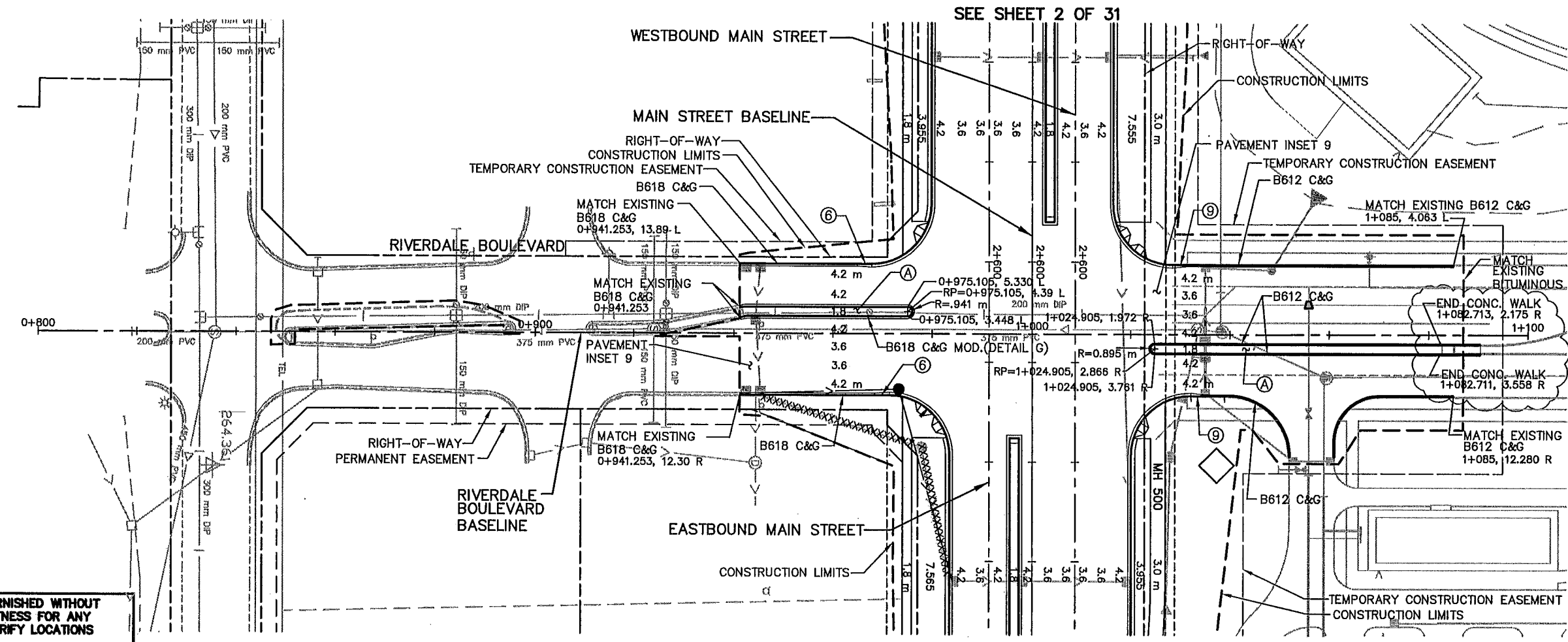
28 OF 31

SHEET NO.
161

539

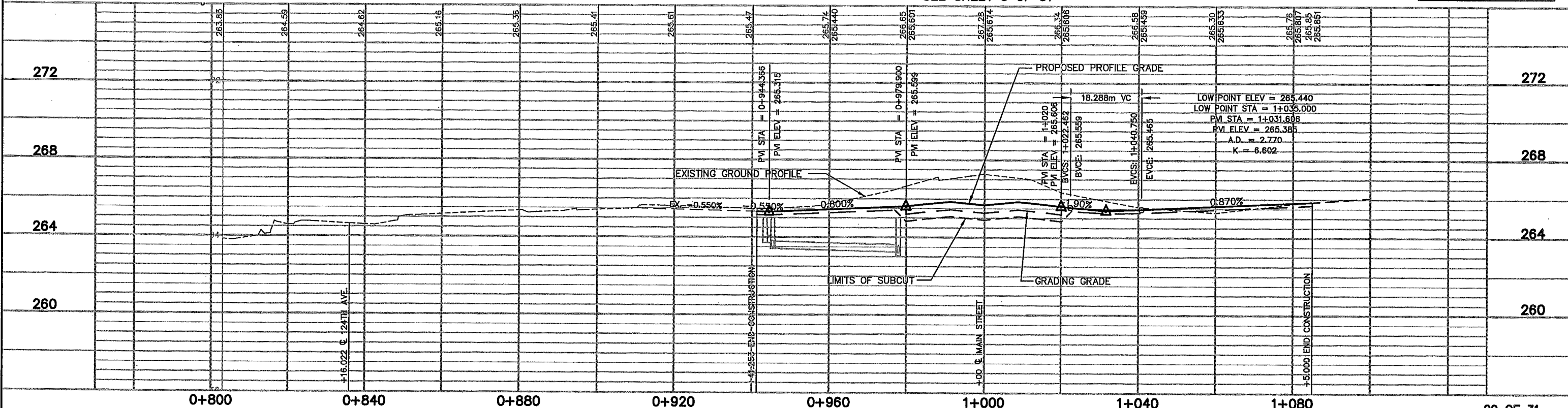
PBOX
 PP-PRF
 36UTIL
 36SITE
 2E-TXT
 2CLM-W
 2-
 2P
 2-
 2-AL1
 2MHVEG
 2MHETO
 2-EUT

PLOT DATE: Jul 2 2000 1:30pm
 DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_5.DWG
 .ORING\Poppp01.dwg



- 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	JLL	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/JLL
CHKD. BY: PBD/KPK	DWG. NAME: POPPPP01	
DATE: NOVEMBER 5, 1999		

BRW
 THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

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

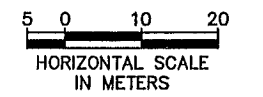
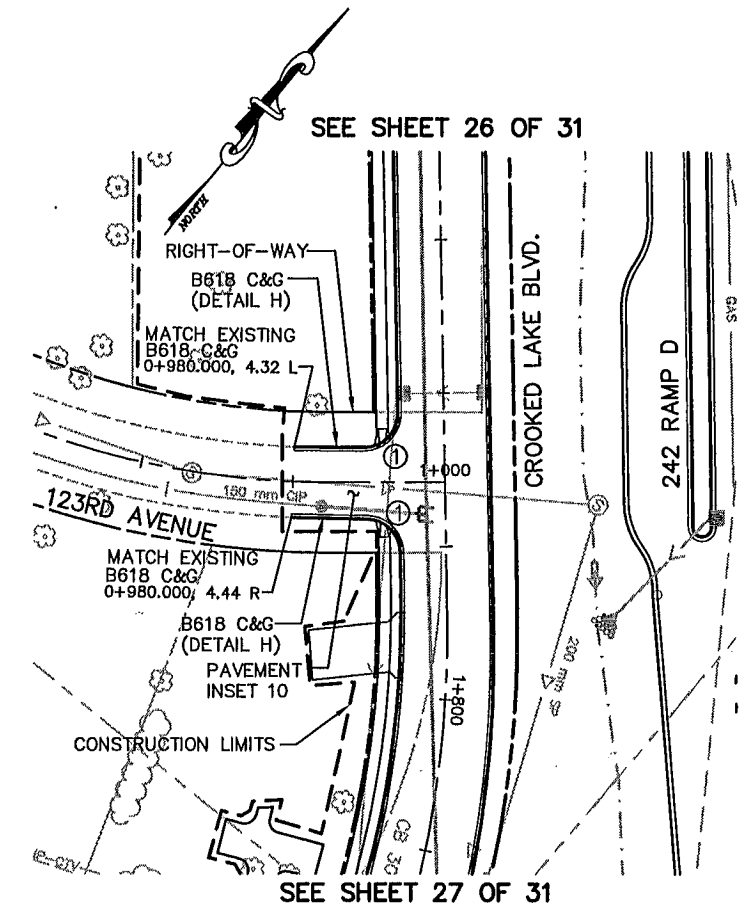
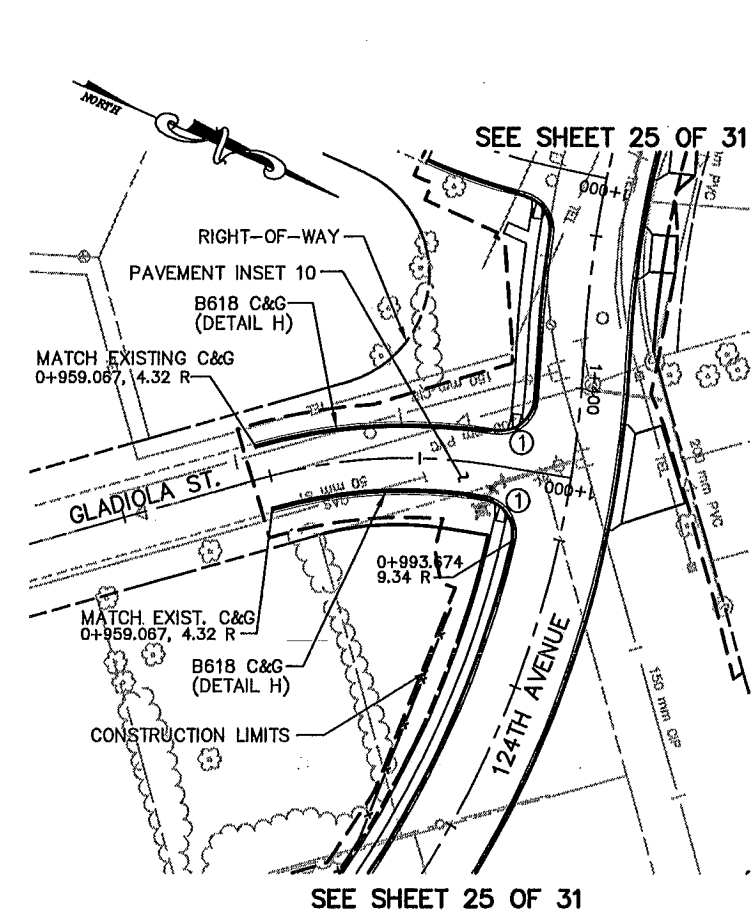
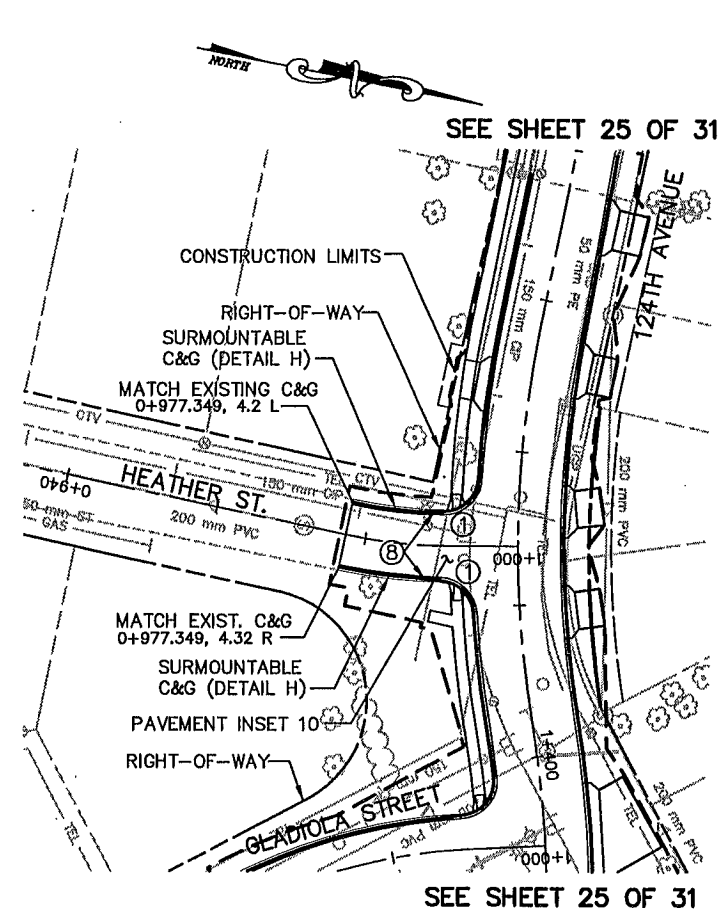
A DAMES & MOORE GROUP COMPANY

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

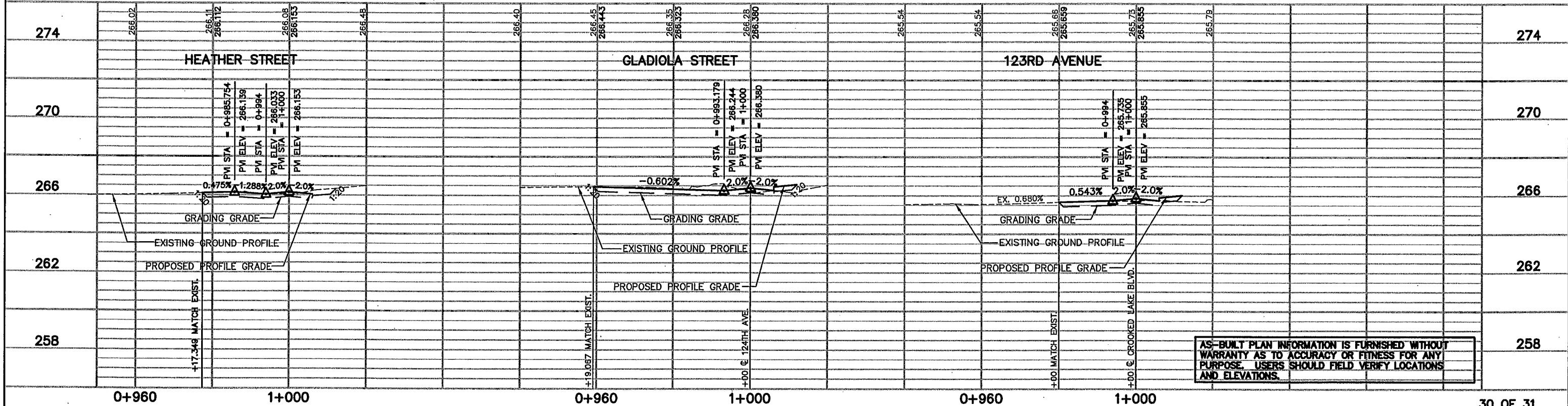
MAIN STREET/T.H. 242 RECONSTRUCTION
RIVERDALE BOULEVARD
 PLANNED CONSTRUCTION
 STATION 0+835.993 TO STATION 1+085.000
 CITY PROJECT 98-20

S.P. 0212-40 (T.H.242-242)	SHEET NO.
S.A.P. 02 - 614 - 19	162 539
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	

PLOT DATE: Jan 0 5:32pm
 DISK FILE NAME: (14-01) R:\33889\33889028\33889W\PLAN_14-01.DWG
 DRAWING NO. 12E-DRN, 12E-CLM-W, 12E-PLN, 12E-CLM, 12E-TXT, 13-...
 12-PUT, 12-PLNW, 12-ESUM, 12-ALI, 12MHVEG, 12MHETO, 12-EUT



- 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 RAMP D PATROL PAD AS-BUILT DRAWING
2	TSR	2/27/04	

DESIGN FILE: 33889028
 DRAWN BY: PMJ
 DESIGN BY: KPK/JJL
 CHECKED BY: PBD
 DWS. NAME: ROADPP01
 DATE: NOVEMBER 5, 1999



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

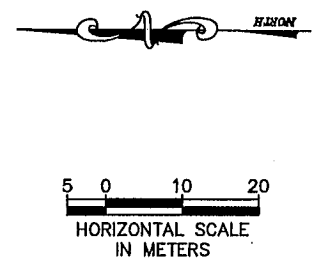
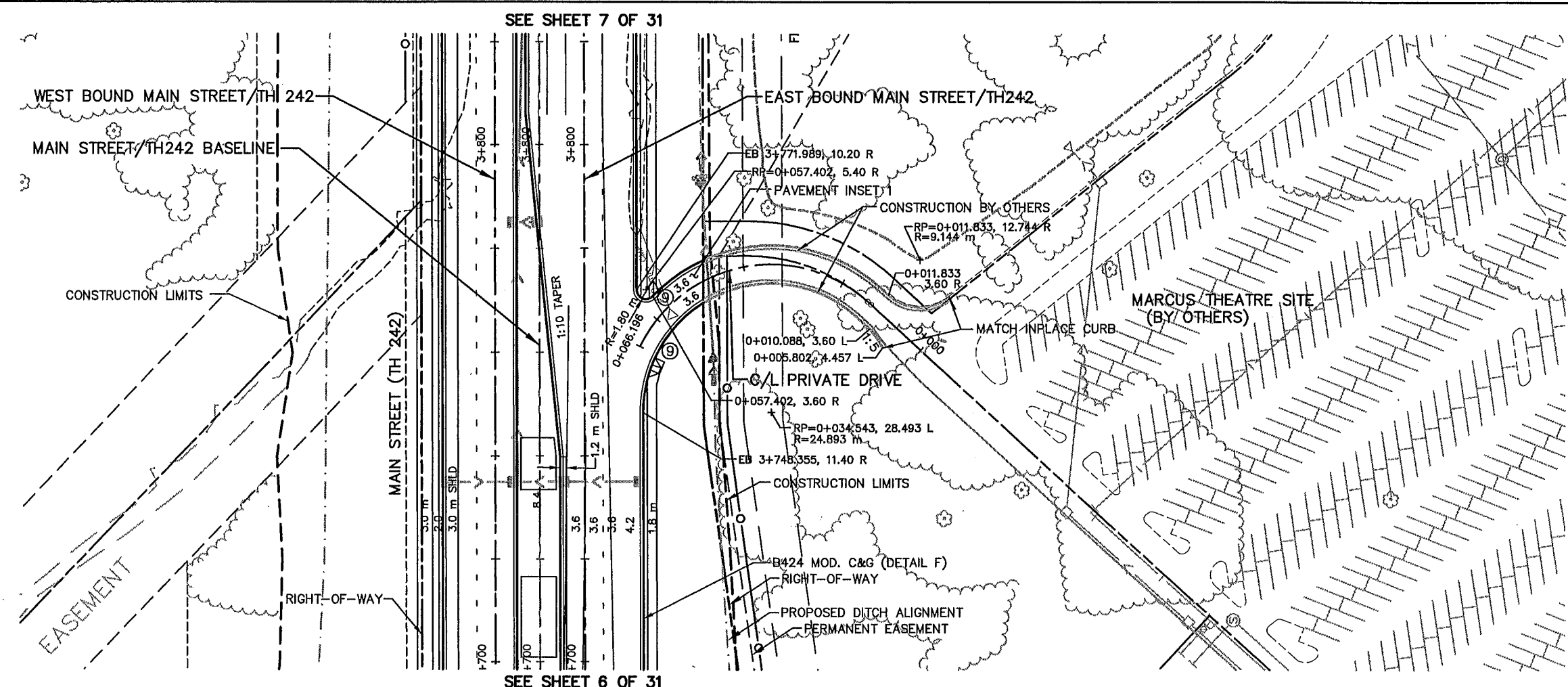
**MAIN STREET/T.H. 242 RECONSTRUCTION
 HEATHER ST, GLADIOLA ST, & 123RD AVE.
 PLANNED CONSTRUCTION**

CITY PROJECT 98-20

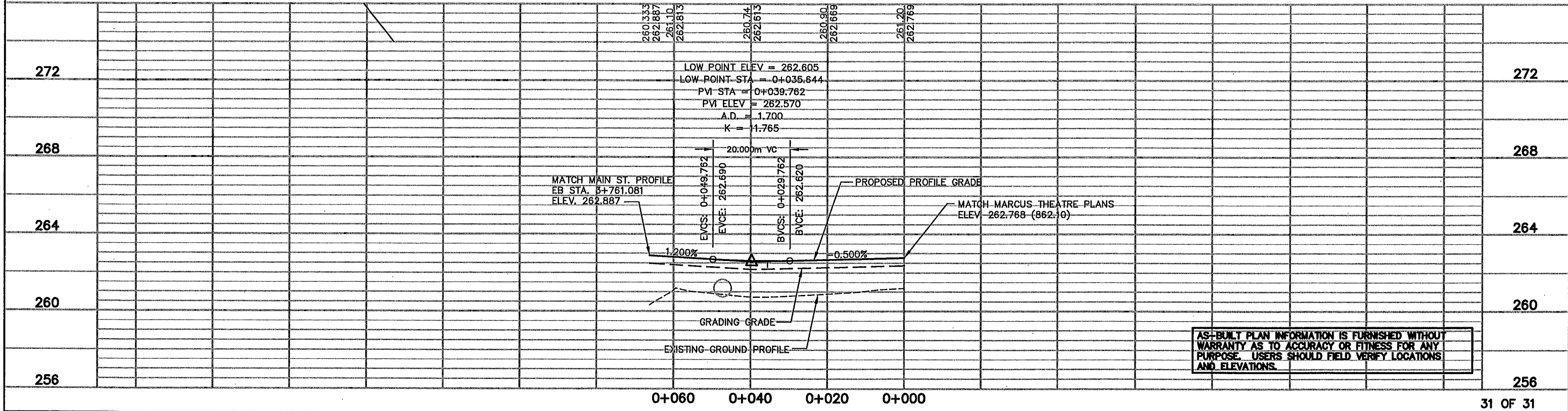
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	163
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

RIVEI
263SITE
APBOX
42E_DRN
42E-TXT
42E-PLN
42F M
42 M
42-EUT
42MHVEG
42MHETO

PLOT DATE: Jan 0 5:34pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH-2app22.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 B824 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 B STD. PLATE 710BF 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

CHKD. BY:
PBD/KPK

DWG. NAME:
242EPP22

DATE:
NOVEMBER 5, 1999



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. Kullb

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

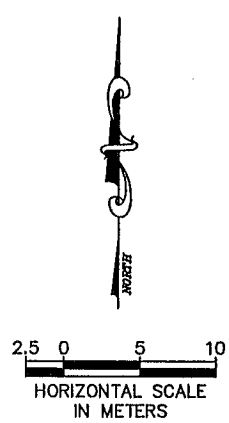
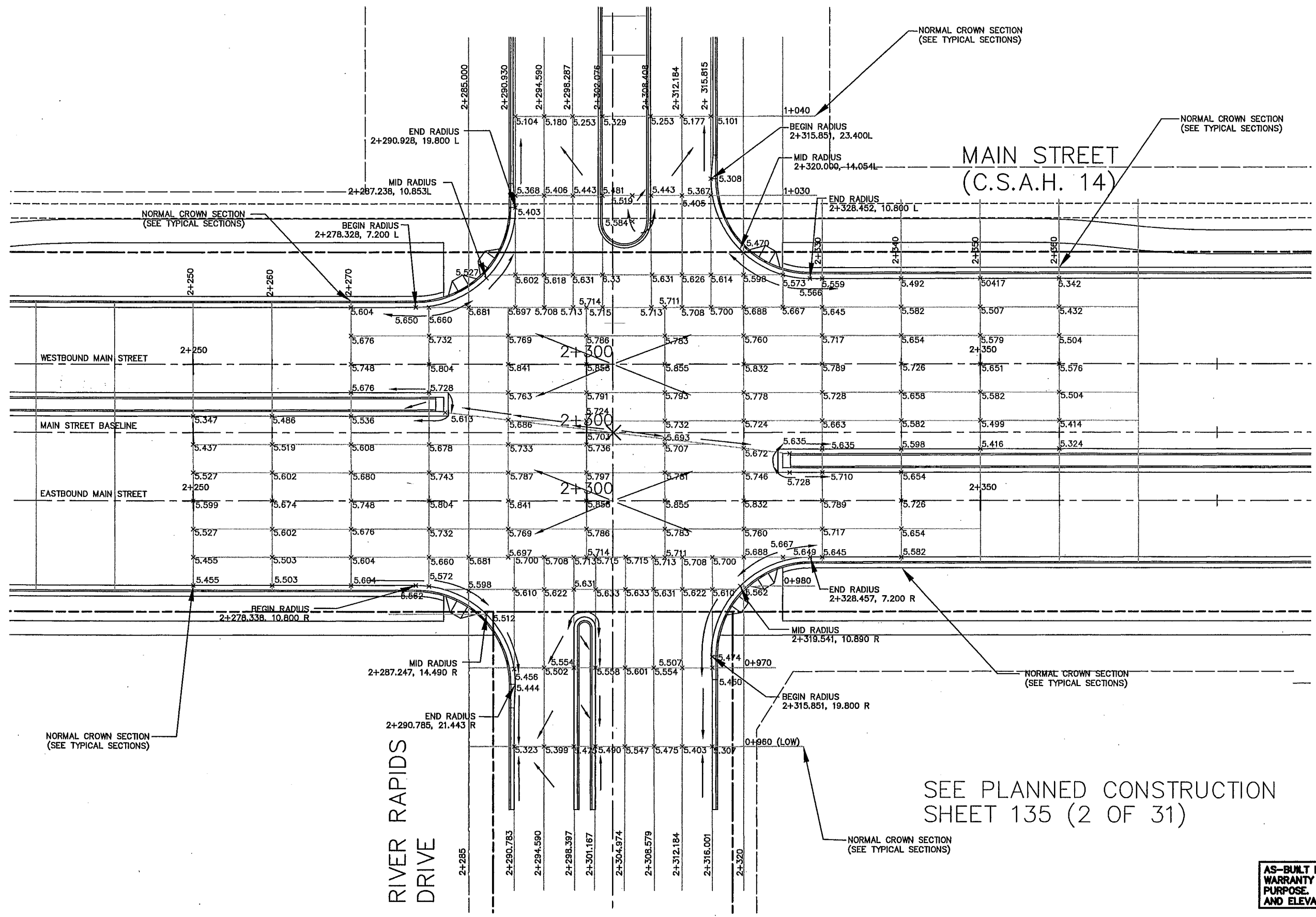
CITY PROJECT 98-20

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 - 138 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
164

539

PLOT DATE: 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
CHKD. BY: PBD/KPK	DWG. NAME: 242INT02	
DATE: NOVEMBER 5, 1999		



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 328.10

Kevin P. Kullb

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

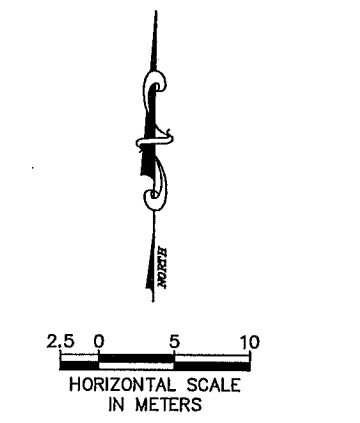
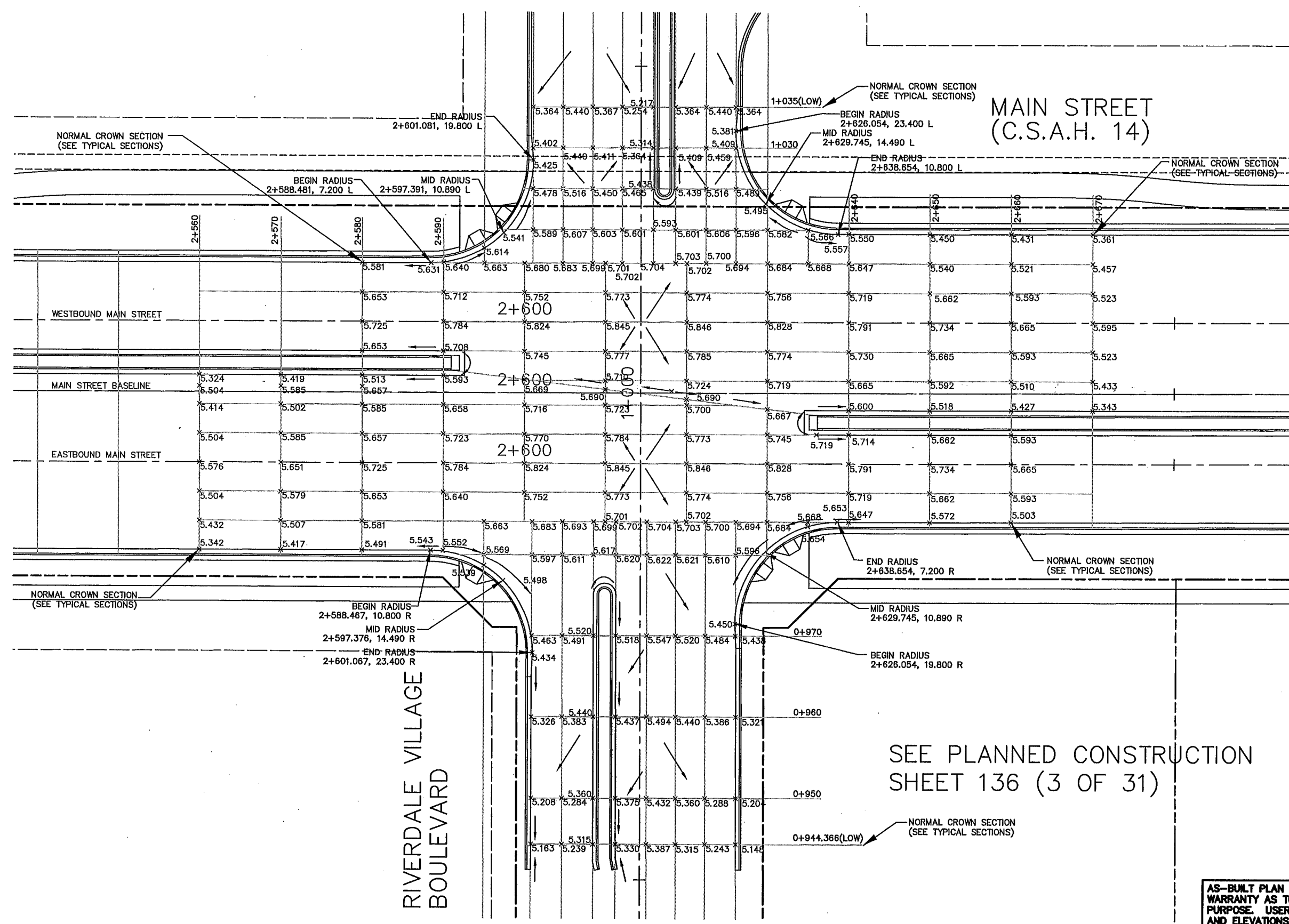
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
INTERSECTION DETAIL
MAIN STREET AND RIVER RAPIDS DRIVE

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	165
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

12PLNW
12-ALIW
12-ESUM
12MHETO

PLOT DATE: 04, 2004 3:21pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\SHT\ENGRING\242in103.dwg



← 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)

SEE PLANNED CONSTRUCTION SHEET 136 (3 OF 31)

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: JUL
CHKD. BY: KPK/PBD	DWG. NAME: 242INT03
DATE: NOVEMBER 5, 1999	


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. Kiel

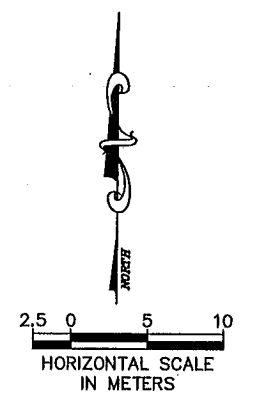
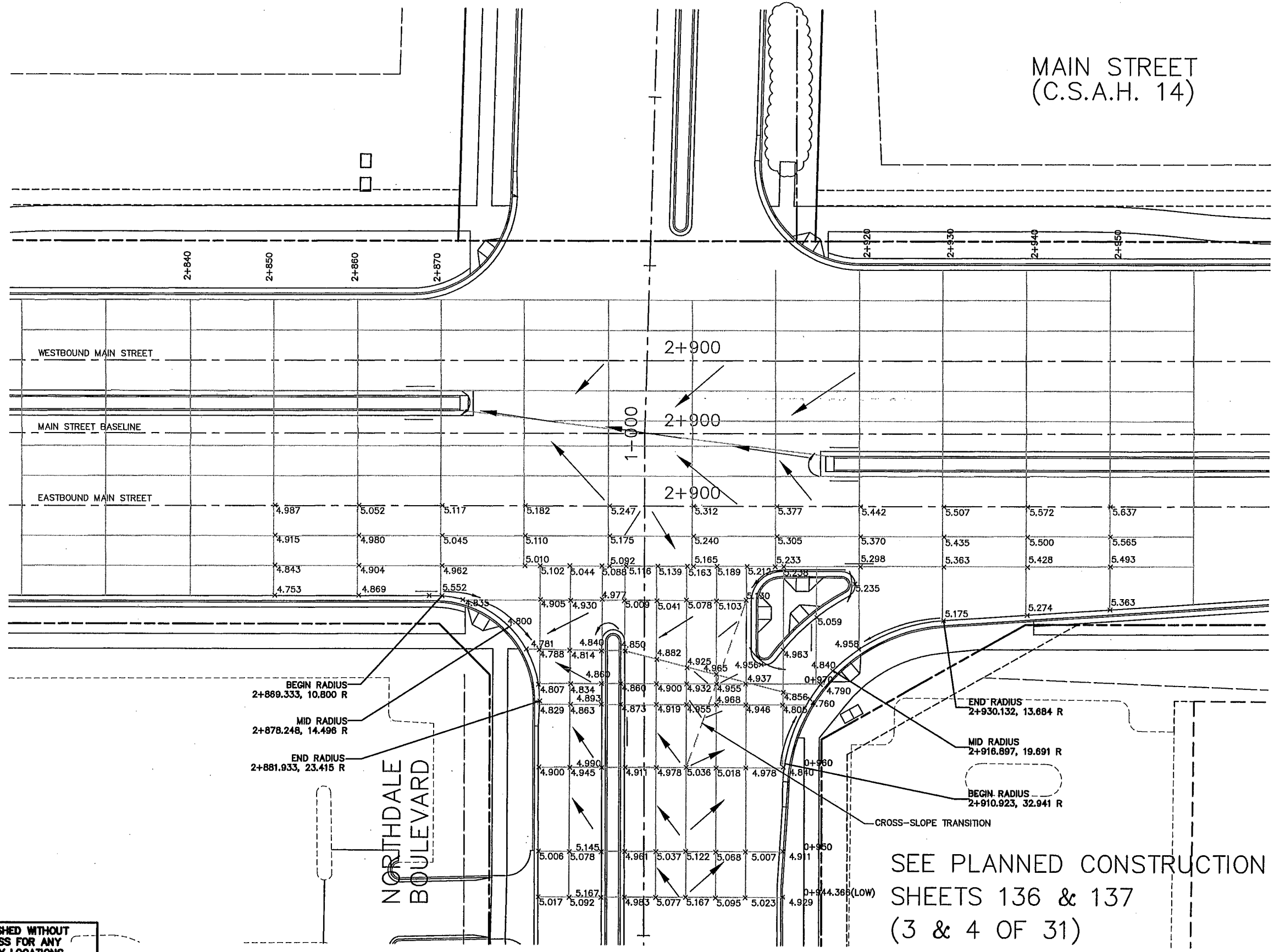
DATE: 11/5/99 MINN. REG. NO. 23211

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)	SHEET NO.
S.A.P. 02 - 614 - 19	166
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PBOX
 2-AL1W
 2PLNW
 2-ESUM
 2MHETO



——— 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)

SEE PLANNED CONSTRUCTION SHEETS 136 & 137 (3 & 4 OF 31)

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: 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
 CHECKED BY: PBD/KPK
 DWG. NAME: 242INT04
 DATE: NOVEMBER 5, 1999



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Kevin P. Kielbaso
 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 NORTHDALÉ BOULEVARD
 CITY PROJECT 98-20

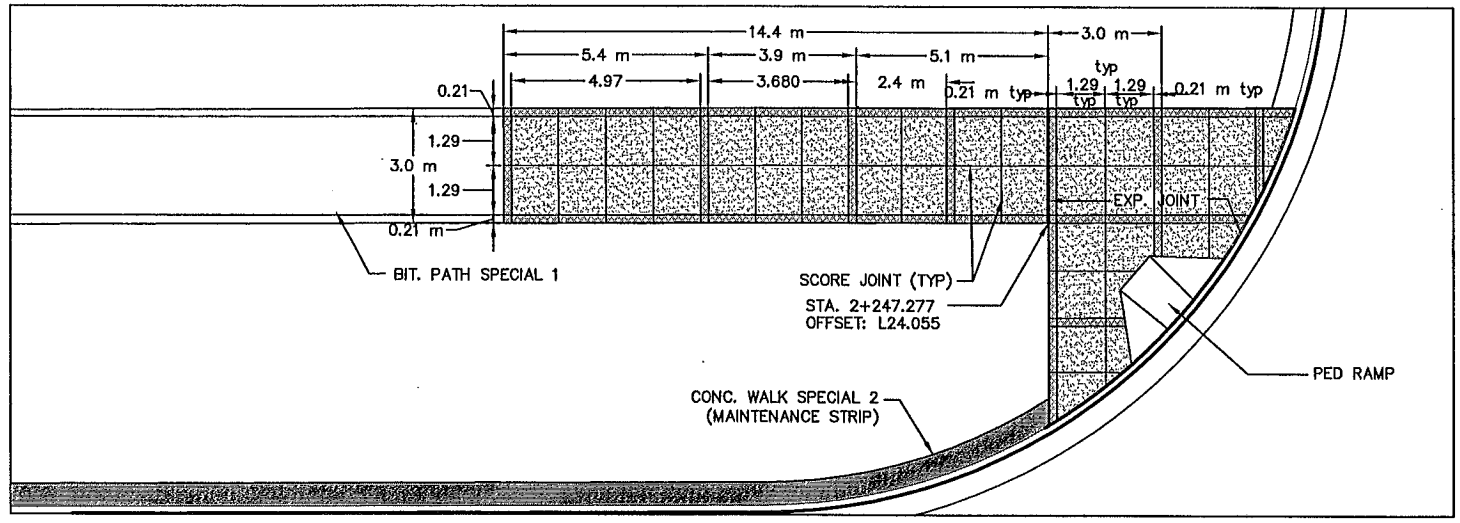
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

SHEET NO. 167
 539

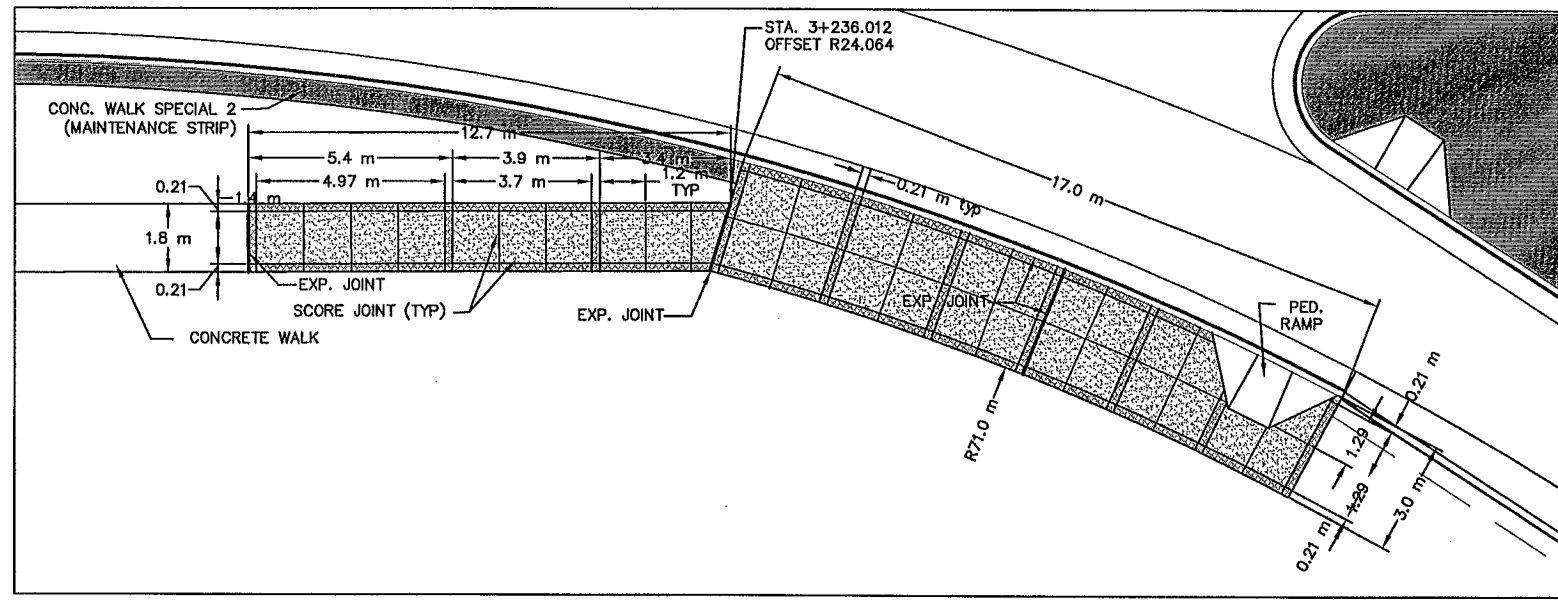
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PBOX
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IGBASE
V-HTCH
2W-MLS
2W
2'
2-

PLOT DATE: Aug 10, 2004 8:34am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\PLANNING\Misc\Plazas\RAMPs-REV1.dwg


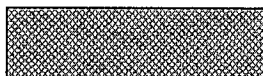



○ RAMP C & MAIN STREET-- NORTH PLAZA PAVING PLAN

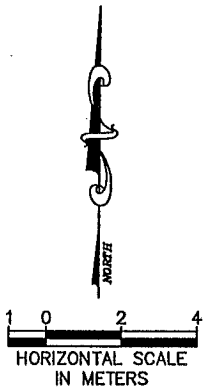


○ RAMP D & MAIN STREET-- SOUTH PLAZA PAVING PLAN

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



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
CHKD. BY:
KPK
DWG. NAME:
RAMPs.dwg
DATE:
NOVEMBER 5, 1999



BRW
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

GROUP A DAMES & MOORE GROUP COMPANY

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Kevin P. Kullb
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

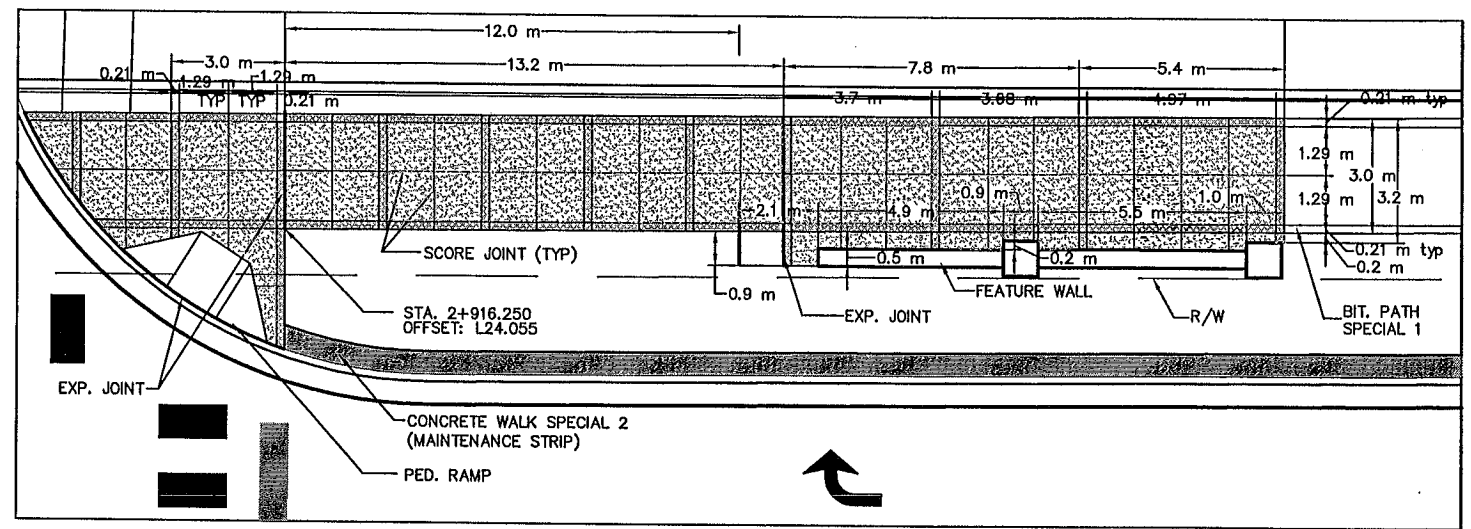
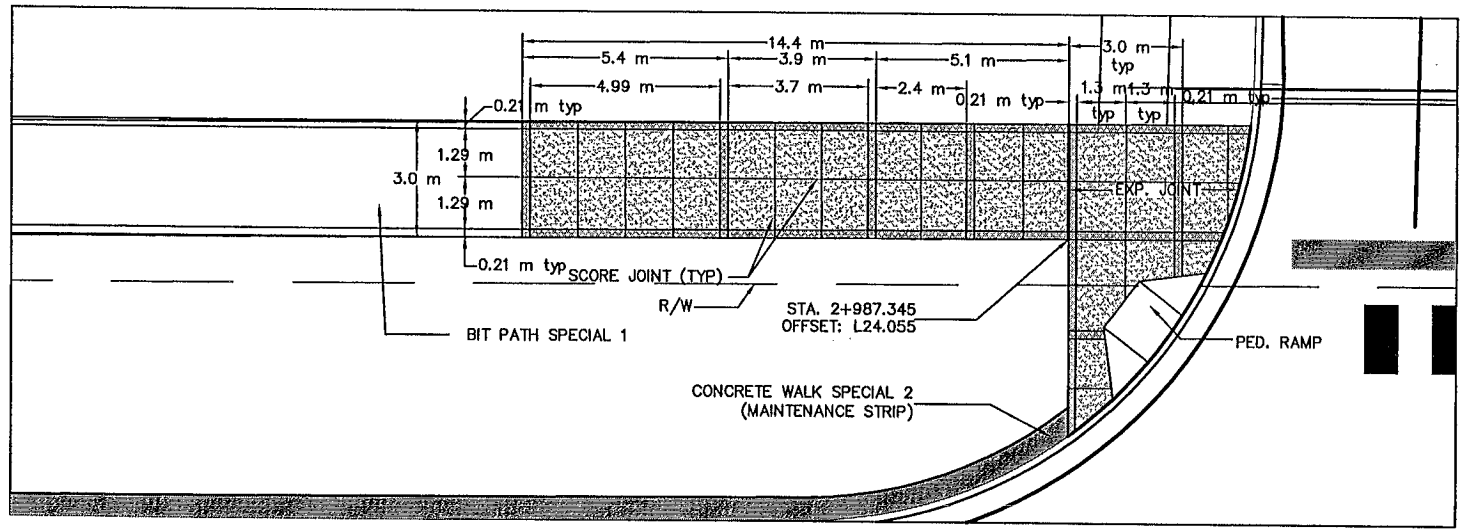
CITY PROJECT 98-20

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

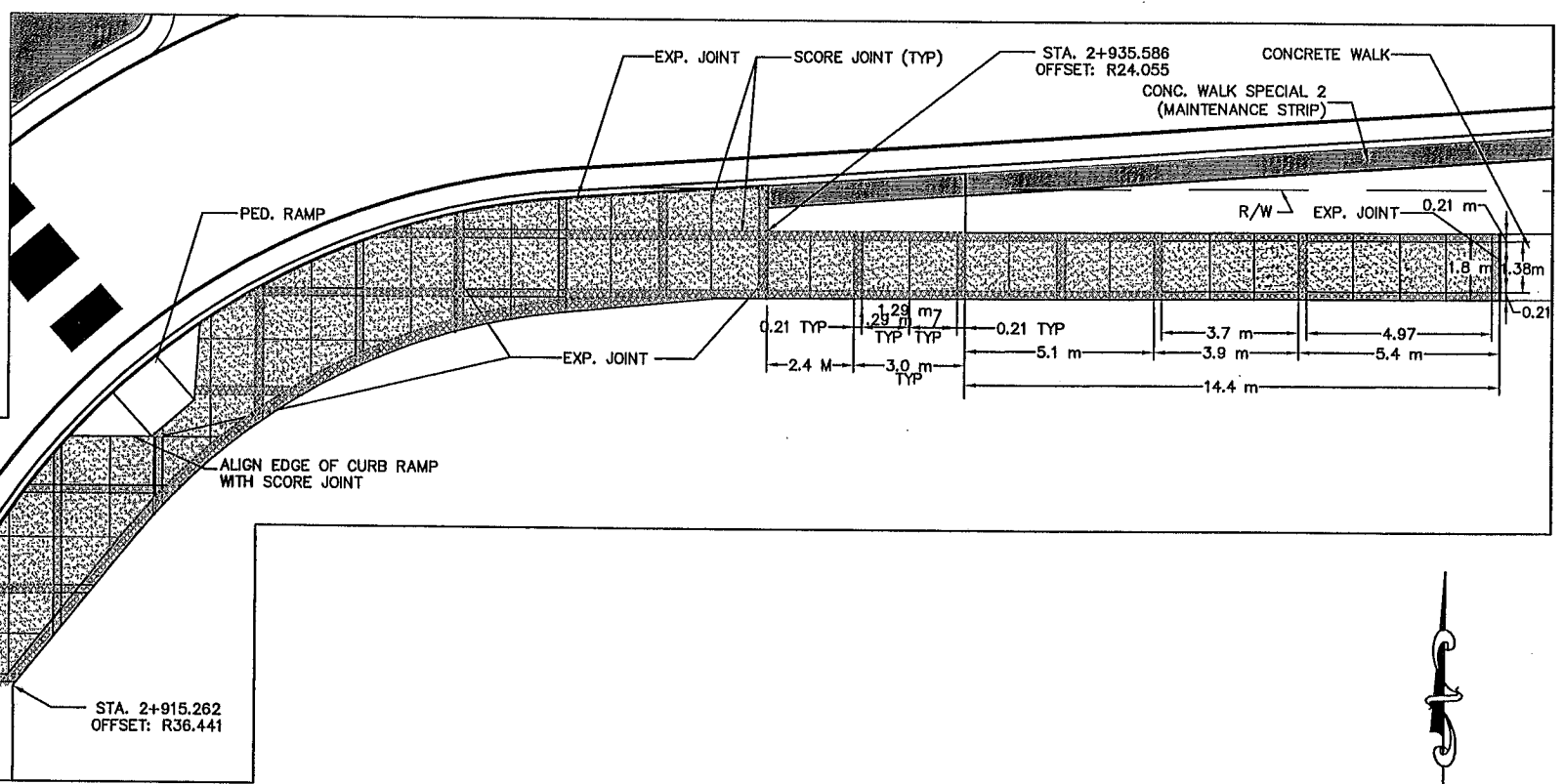
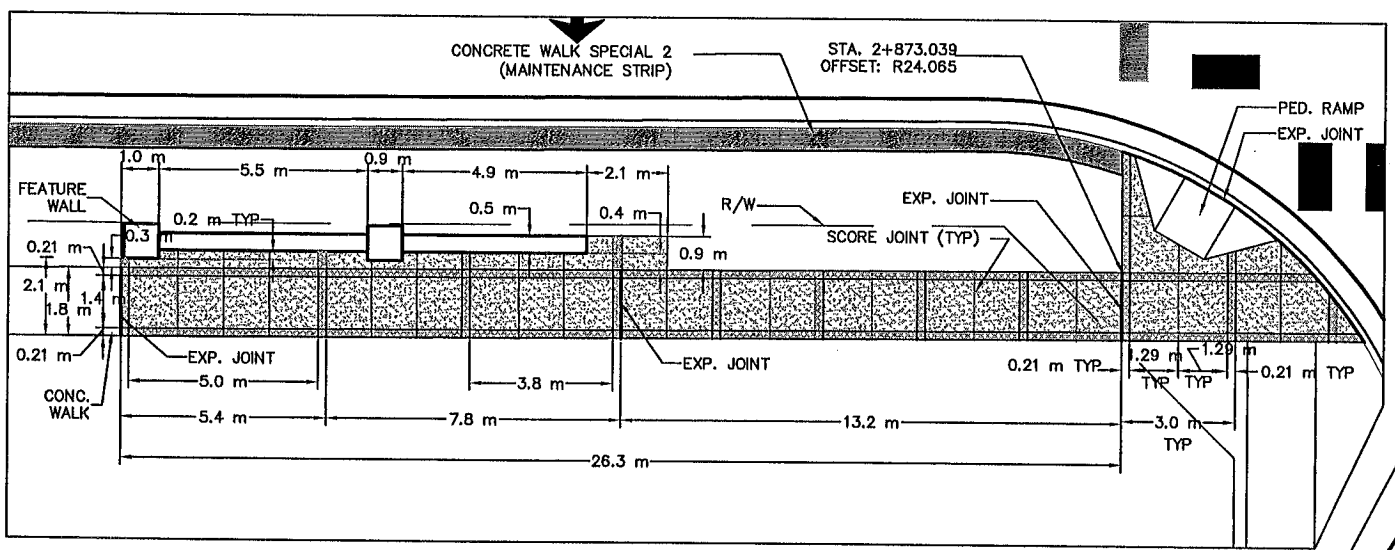
PBOX
 V-HTCH
 2E-PLN
 IGBASE
 2-ESUM
 STRIPE
 2W
 2V
 2PLINT
 2-ALIW

PLOT DATE: Aug 10, 2004 8:35am DISK FILE NAME: (15.06) R:\33889\33889028\33889\PLAN_SH-Y-LANNING\Misc\Plazas\Northdale-rev1.dwg



NORTHDALE BOULEVARD & MAIN STREET--N.W. PLAZA PAVING PLAN

NORTHDALE BOULEVARD & MAIN STREET--N.E. PLAZA PAVING PLAN



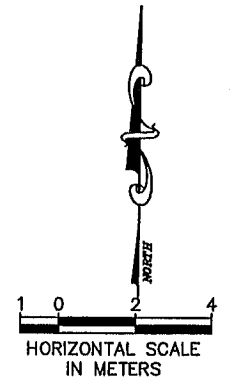
NORTHDALE BOULEVARD & MAIN STREET--S.W. PLAZA PAVING PLAN

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



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
CHKD. BY: KPK	DWG. NAME: Northdale.dwg	
DATE: NOVEMBER 5, 1999		

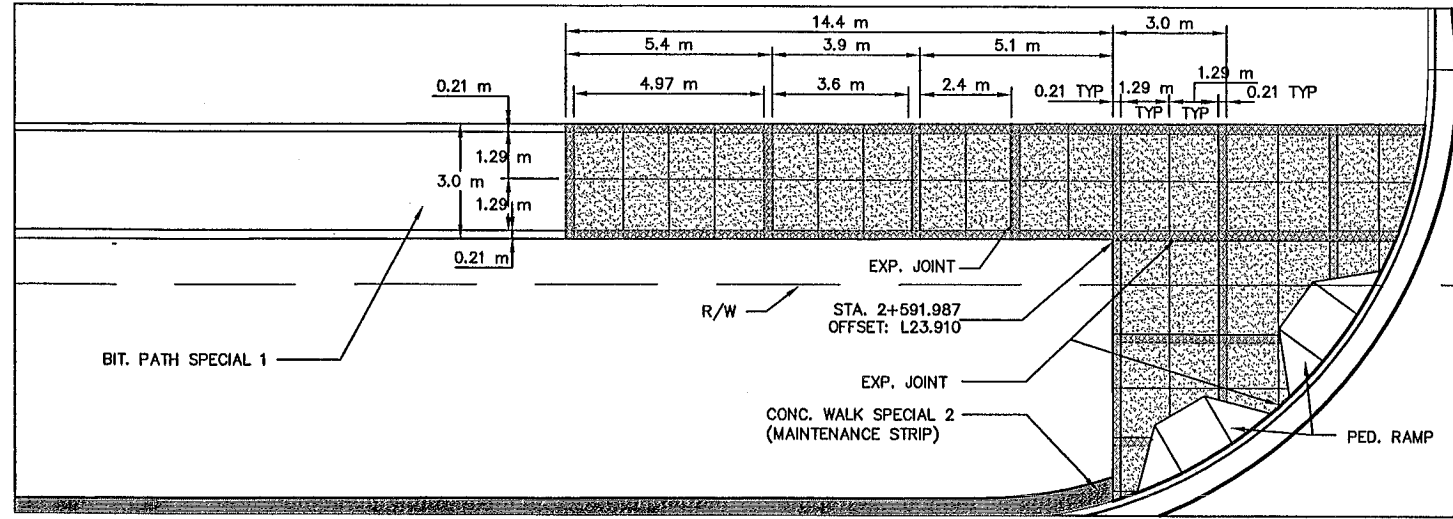
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16
Kevin P. Kielb
 DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
 MAIN STREET (C.S.A.H. 14)
 PLAZA PAVING DETAIL PLAN
 NORTHDALE BOULEVARD & MAIN STREET
 CITY PROJECT 98-20

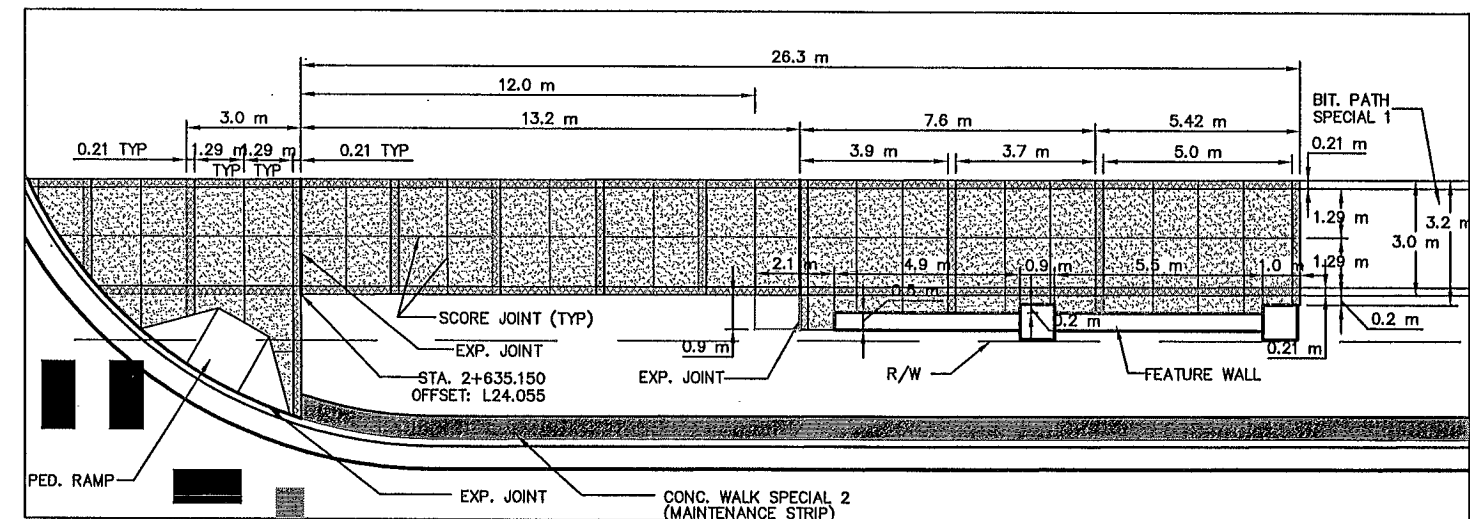
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	169
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PBOX
2E-PLN
V-HTCH
IGBASE
2-ESUM
STR 1 PE
2W
2W
2PLN
2-AL 1 W
2-EUT

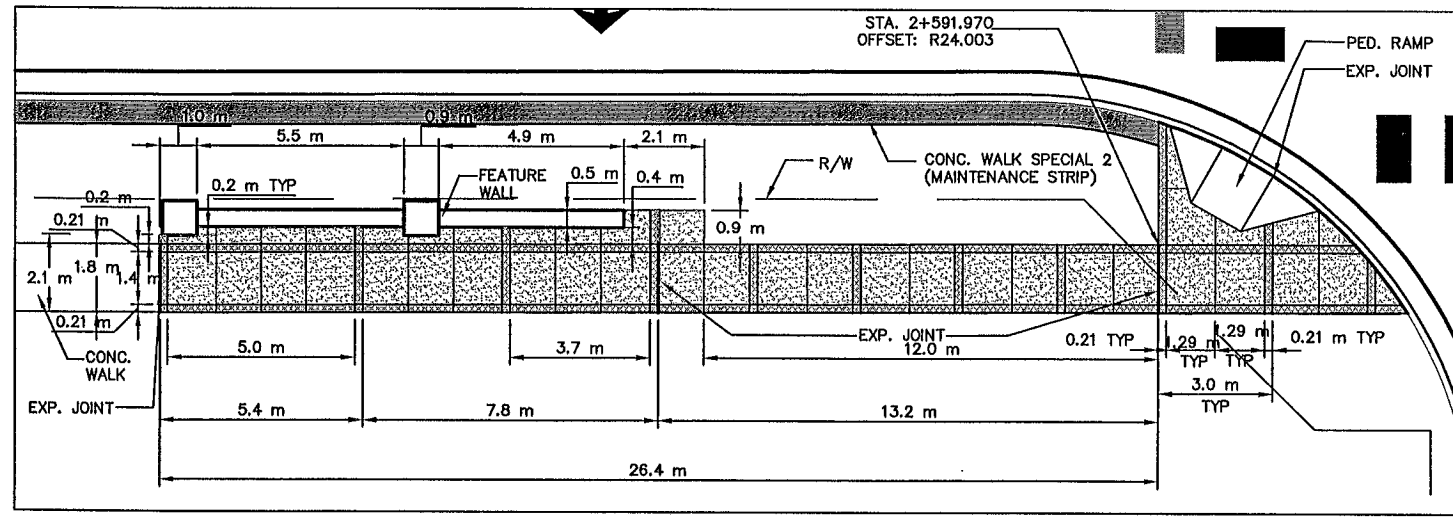
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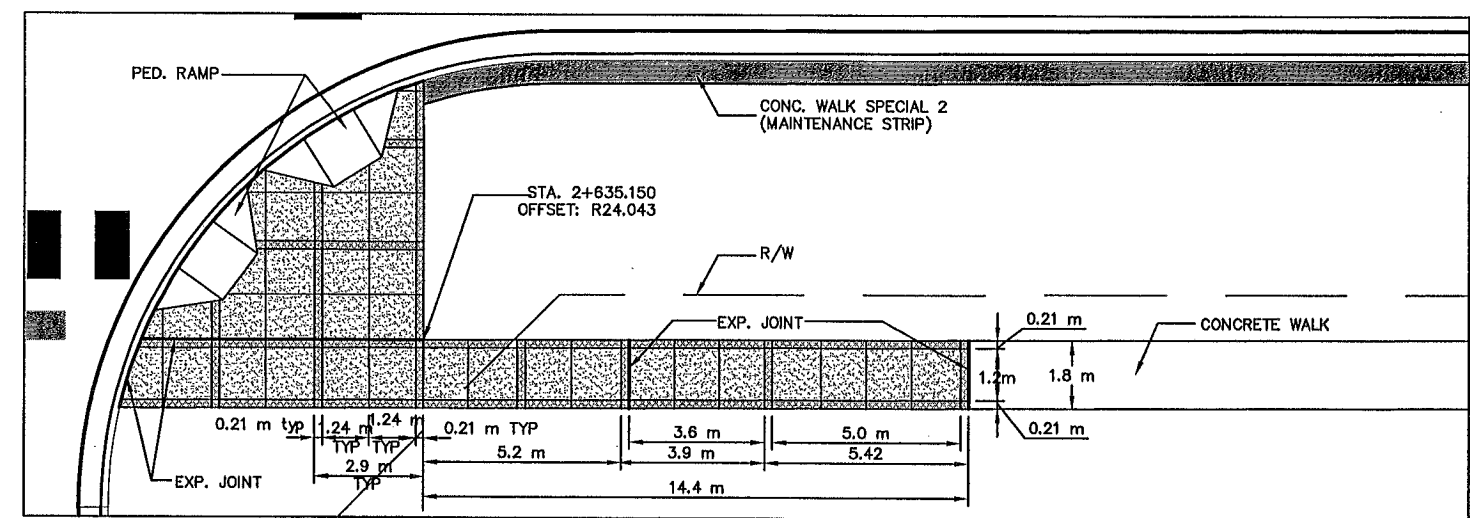
RIVERDALE VILLAGE BOULEVARD & MAIN STREET--N.W. PLAZA PAVING PLAN



RIVERDALE VILLAGE BOULEVARD & MAIN STREET--N.E. PLAZA PAVING PLAN


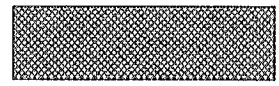



RIVERDALE VILLAGE BOULEVARD & MAIN STREET--S.W. PLAZA PAVING PLAN

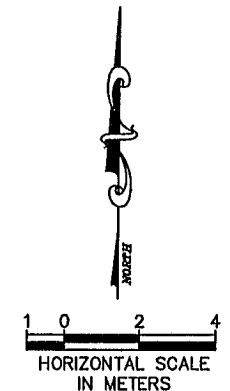


RIVERDALE VILLAGE BOULEVARD & MAIN STREET--S.E. PLAZA PAVING PLAN

LEGEND

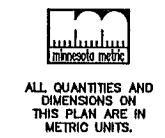
-  100 mm CONCRETE WALK SPECIAL 1 TYPE "A"
-  100 mm CONCRETE WALK SPECIAL 1 TYPE "B"
-  100 mm CONCRETE WALK SPECIAL 2 (MAINTENANCE STRIP)

NOTE: SPACE SCORE JOINTS EQUALLY BETWEEN COLORED BANDING



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
CHKD. BY: KPK	DWG. NAME: Riv_VIII.dwg	DATE: NOVEMBER 5, 1999



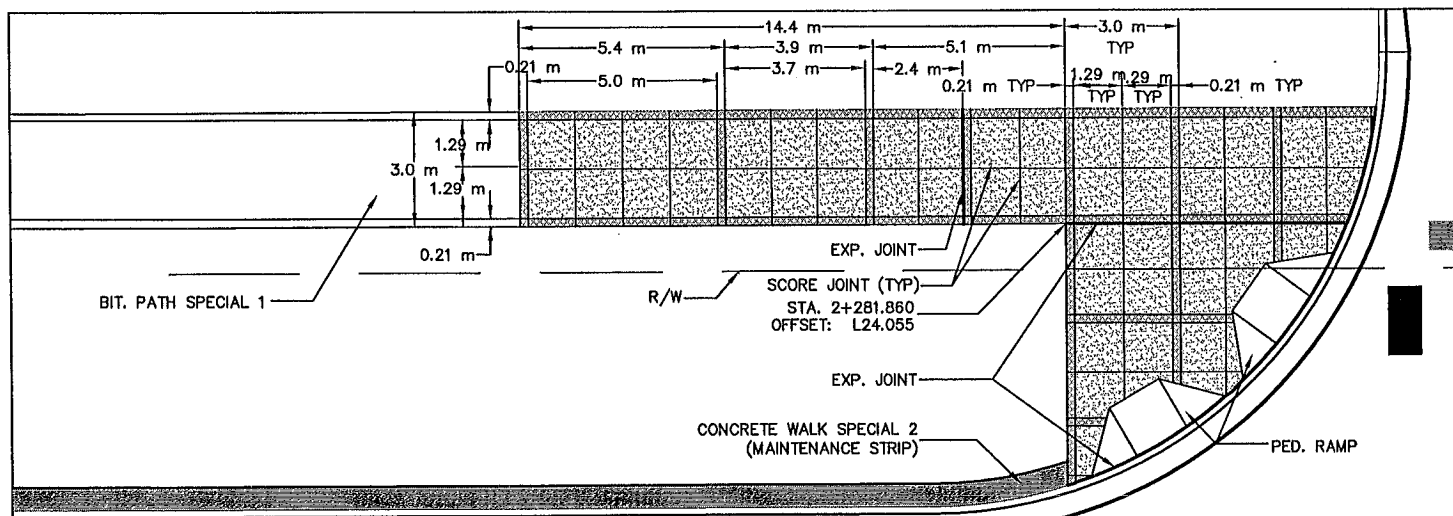
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Kevin P. Kuelb
DATE: 11/5/99 MINN. REG. NO. 23211

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

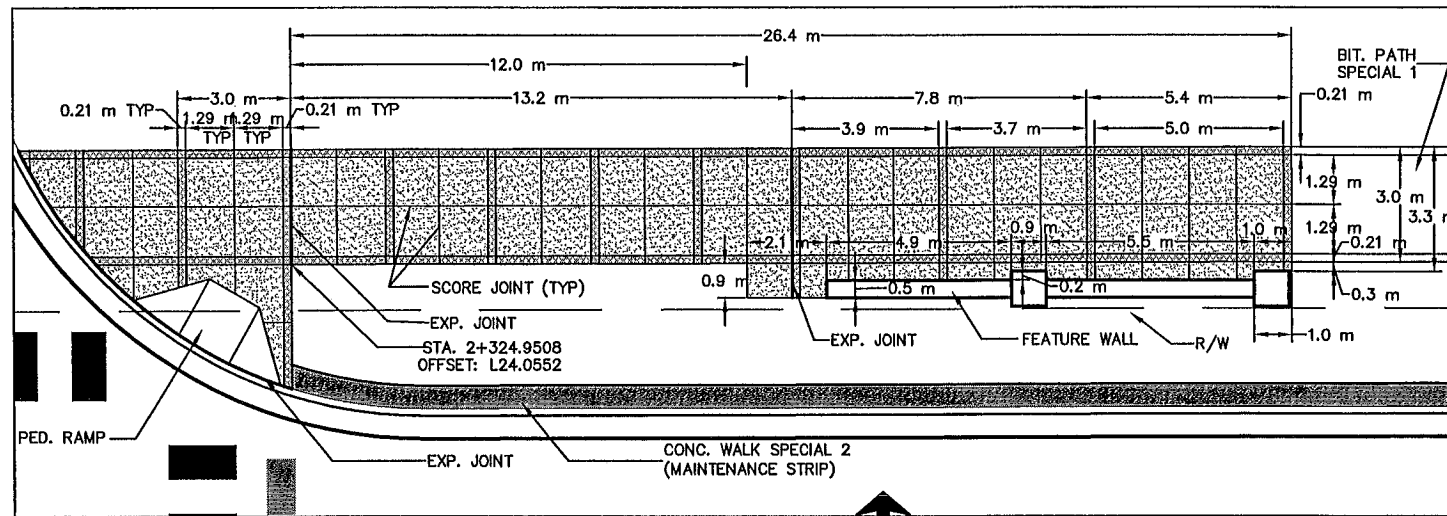
S.P. 0212-40 (T.H.242=242)	SHEET NO.
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S.A.P. 02 - 618 - 24	539
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

PBOX
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2W-MLS
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2-ESUM
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V-
2W
2PLNW
2-ALIW
2MHETO

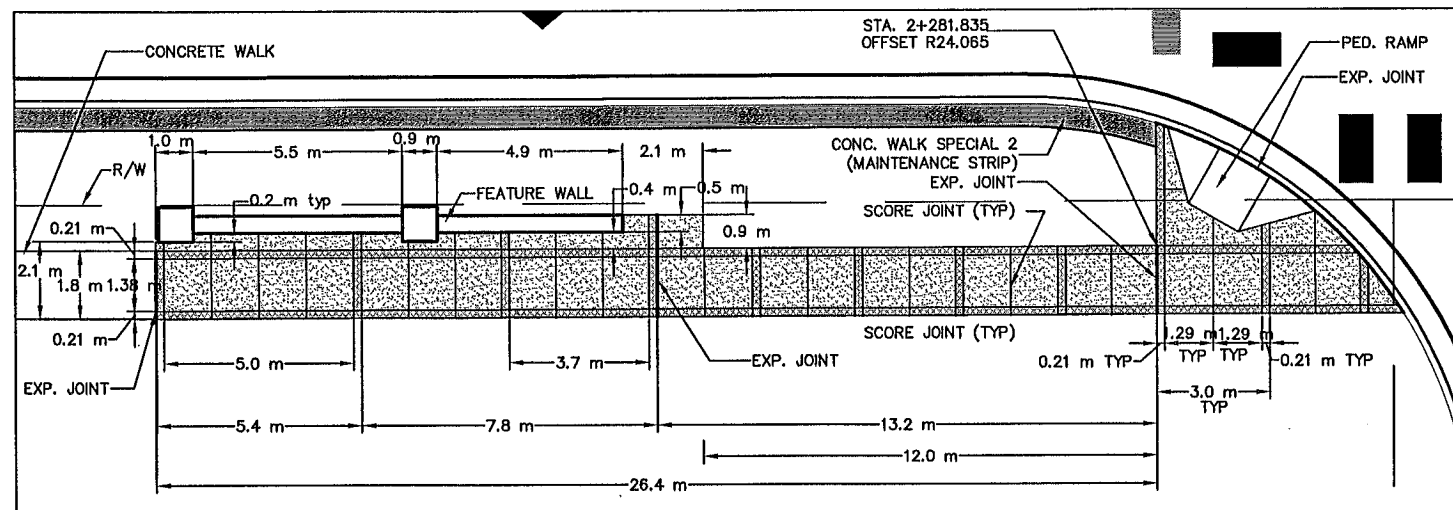
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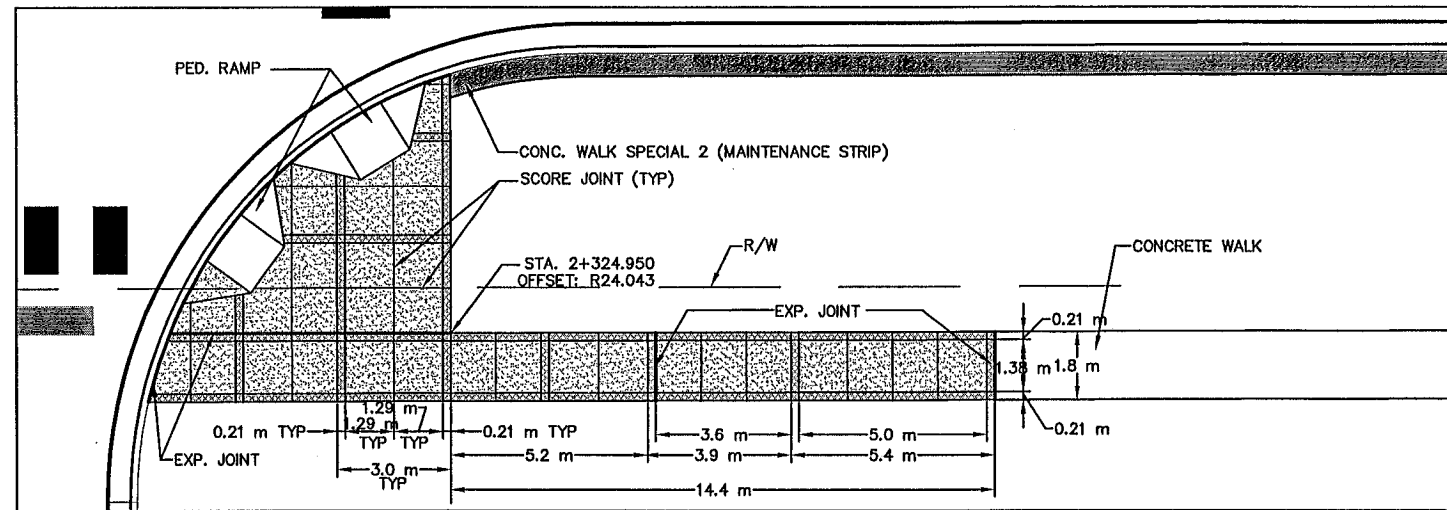
RIVER RAPIDS DRIVE & MAIN STREET--N.W. PLAZA PAVING PLAN



RIVER RAPIDS DRIVE & MAIN STREET--N.E. PLAZA PAVING PLAN



RIVER RAPIDS DRIVE & MAIN STREET--S.W. PLAZA PAVING PLAN

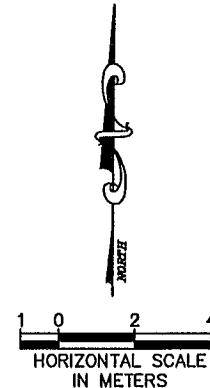


RIVER RAPIDS DRIVE & MAIN STREET--S.E. PLAZA PAVING PLAN

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



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
CHCKED BY: KPK	DWG. NAME: RR_Drive-rev1	DATE: NOVEMBER 5, 1999



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



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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Kevin P. Kullb
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

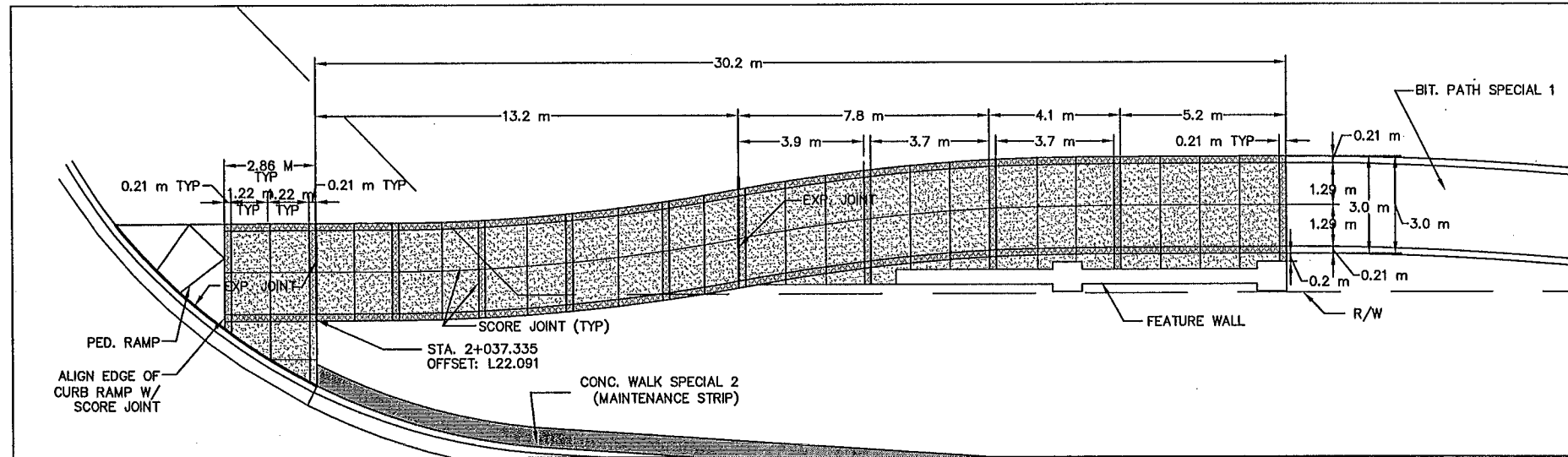
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	171
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
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S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

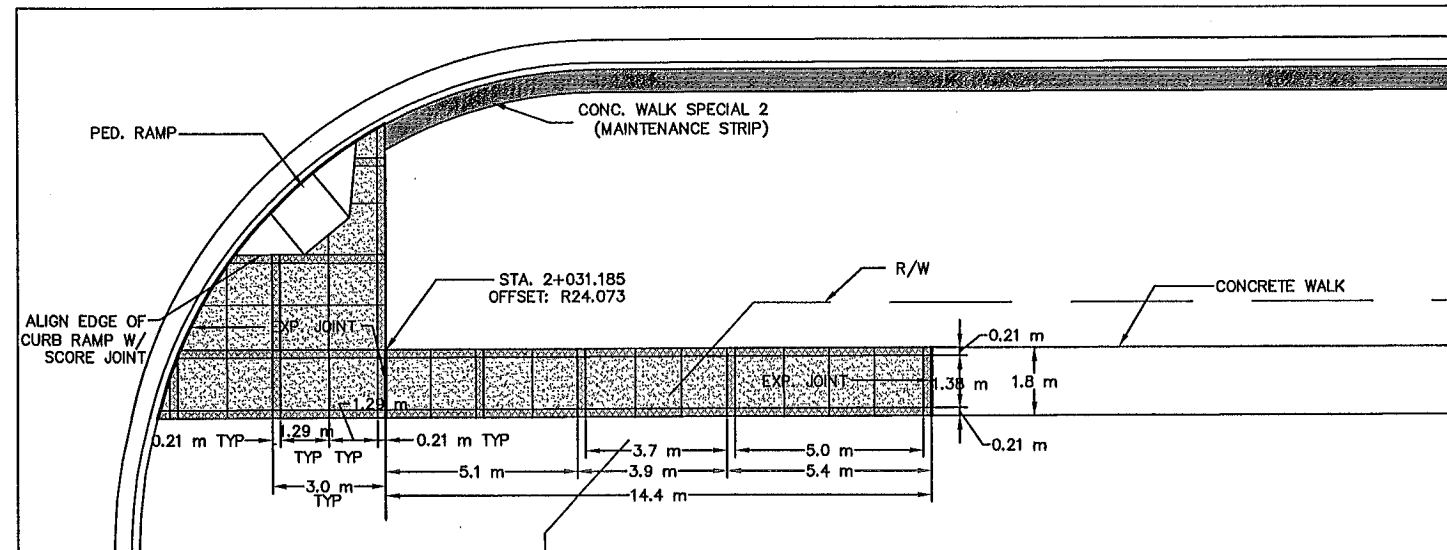
539

PBOX
2E-PLN
1GBASE
2-ESUM
STRIP
V-11111
21
21
2PLNW
2-ALI
2MHVEG
2MHETO
2-EUT

PLOT DATE: Aug 10 10:04 8:41am DISK FILE NAME: (15.06) R:\33889\33889028\33889\PLAN_SHT\CANNING\Misc\Plazas\Round_Lk-rev1.dwg

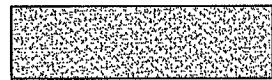
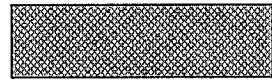



○ ROUND LAKE BOULEVARD & MAIN STREET-- NORTH PLAZA PAVING PLAN

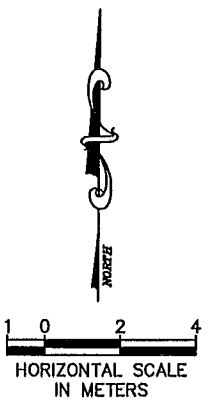


○ ROUND LAKE BOULEVARD & MAIN STREET-- SOUTH PLAZA PAVING PLAN

LEGEND

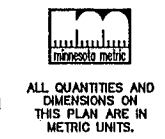
-  100 mm CONCRETE WALK SPECIAL 1 TYPE "A"
-  100 mm CONCRETE WALK SPECIAL 1 TYPE "B"
-  100 mm CONCRETE WALK SPECIAL 2 (MAINTENANCE STRIP)

NOTE: SPACE SCORE JOINTS EQUALLY BETWEEN COLORED BANDING



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
CHKD. BY:
KPK
DWG. NAME:
Round_Lk-rev1
DATE:
NOVEMBER 5, 1999



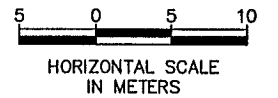
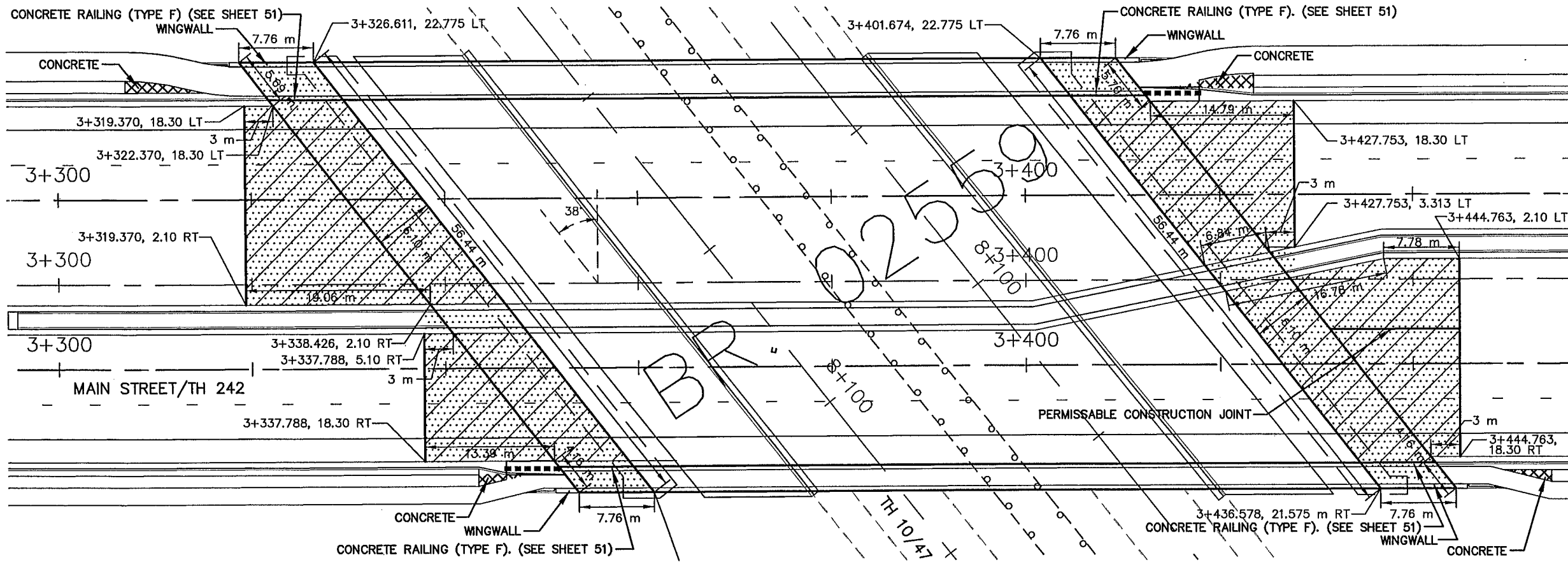
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kull
DATE: 11/5/99 MINN. REG. NO. 23211

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

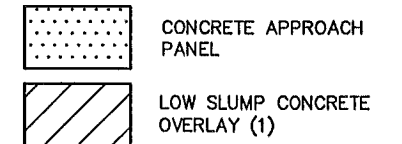
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO.
172
539

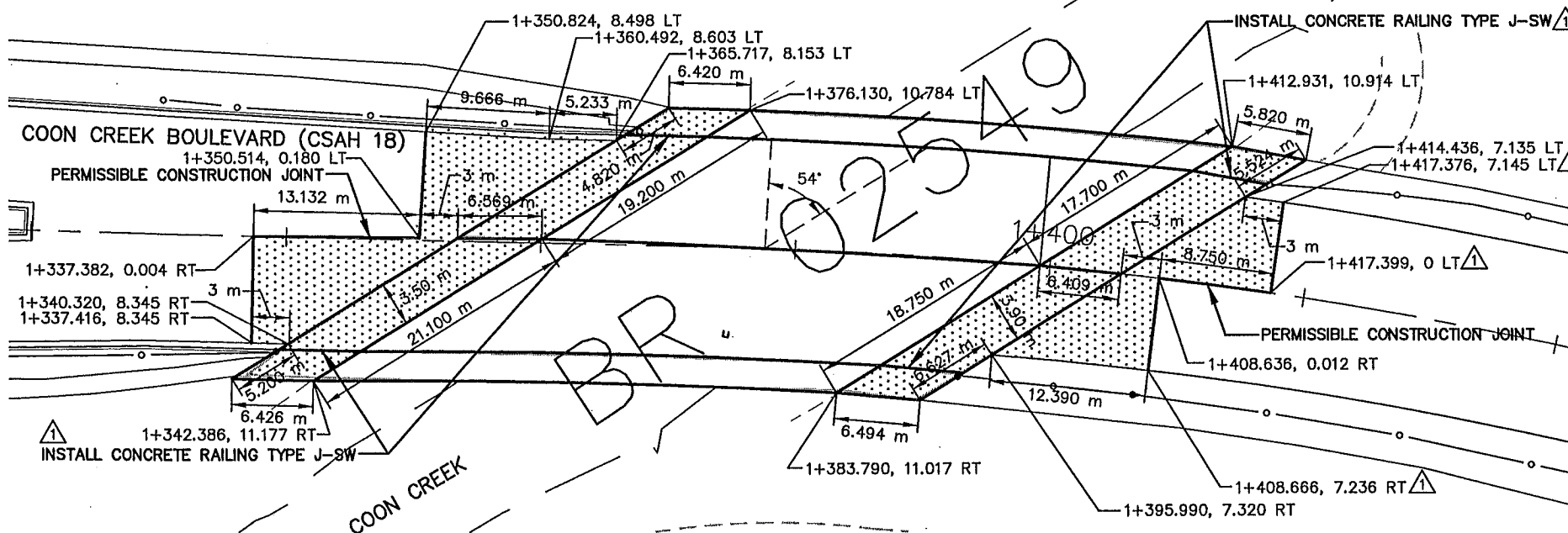
APPROACH PANELS A (38° SKEW)



ALL DIMENSIONS ARE TO
EDGE OF BIT UNLESS
OTHERWISE NOTED



APPROACH PANELS B (54° SKEW)



REBAR REQUIREMENTS FOR BRIDGE APPROACH PANELS	
BRIDGE TO CONTRACTION JOINT	19.7 kg/m ² PLUS 3 EXTRA No. 16 FOR EXPANSION JOINT (IF NEEDED)
CONTRACTION JOINT TO END OF APPROACH PANEL	5.1 kg/m ²
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.

PLOT DATE: Aug 10, 2004 8:43am DISK FILE NAME: (15.06) R:\33889\33889028\PLAN-SHT\242edet2.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	12/30/99	ADDED PLAN SHEET
2	JUL	2/11/00	ADDENDUM MODIFIED APPROACH PANEL AREAS, ADDED NOTE TO INSTALL RAILING TYPE J-SW
3	JUL	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
CHCKD. BY: KPK/PBD	DWG. NAME: 242EDET2	DATE: NOVEMBER 5, 1999

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. Kullb

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

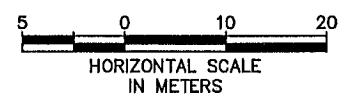
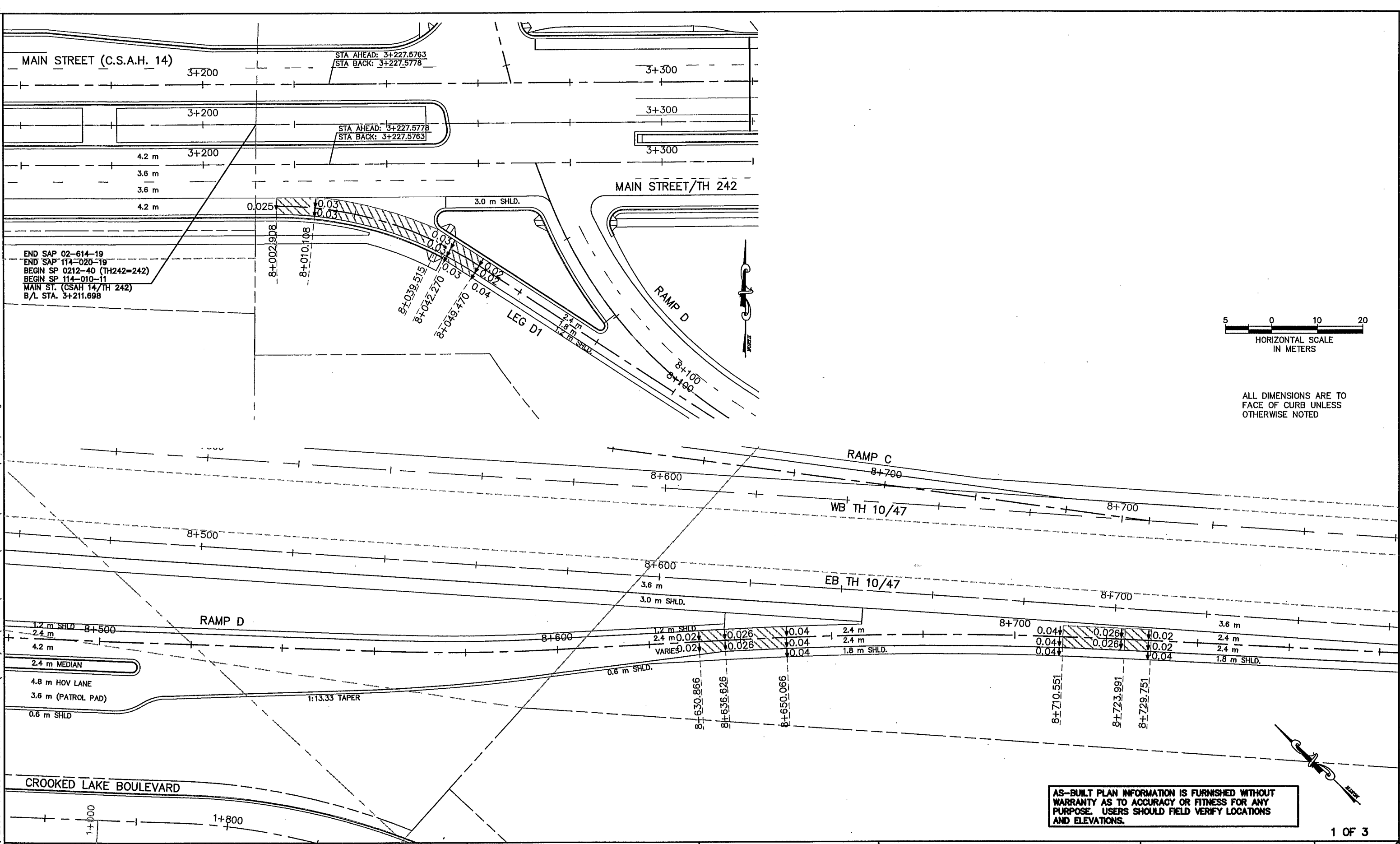
S.P. 0212-40 (T.H.242=242)	S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24	S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19	S.A.P. 114 - 138 - 02
S.A.P. 114 - 127 - 02	

1 OF 1

SHEET NO.
172A

539

42-ESUM
42MHETO
_STR IPE
_STR IPE
42PLNW
42E-SUP
42'
AF
42E-...LI



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.

PLOT DATE: Jan 10, 2000 9:53am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\42sup05.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

CHKD. BY:
KPK/PBD

DWG. NAME:
242SUP05

DATE:
NOVEMBER 5, 1999



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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. Kullb

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

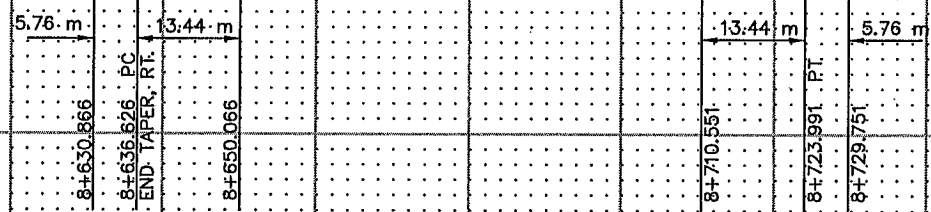
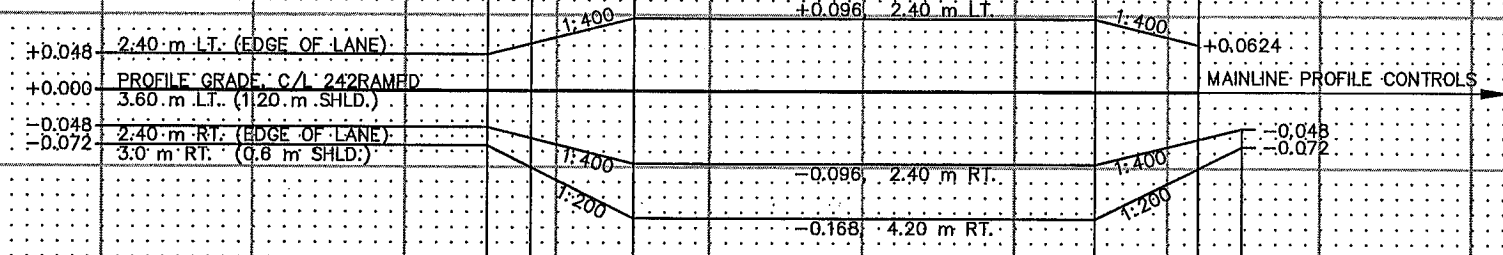
SHEET NO.
173

539

PLOT DATE: Dec 2 1999 5:05pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh-42sup03.dwg

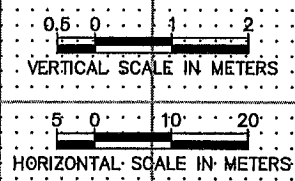
242RAMPD
CURVE #123
R = 863.554 m
90 km/hr
e = 0.040 m/m
PC = 8+636.300
PT = 8+724.166

0.02 m/m
2/3 SUPER 0.026 m/m
FULL SUPER 0.040 m/m
FULL SUPER 0.040 m/m
2/3 SUPER 0.026 m/m



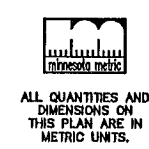
8+600 8+700 8+800

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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
CHKD. BY:
KPK/PBD
DWG. NAME:
242SUP03
DATE:
NOVEMBER 5, 1999



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

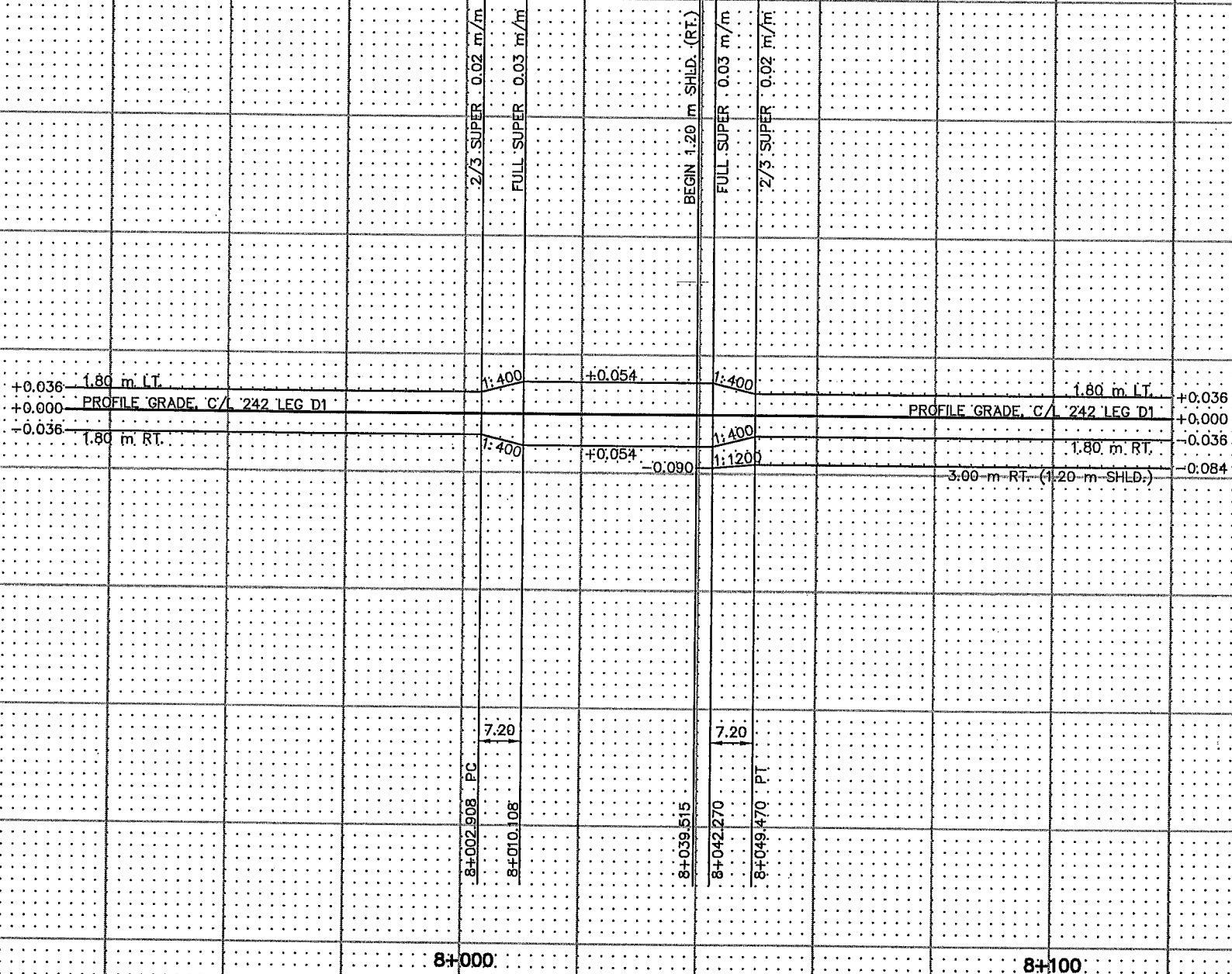
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D, CURVE #123
SUPERELEVATION
SUPERELEVATION TRANSITION DIAGRAM
CITY PROJECT 98-20

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

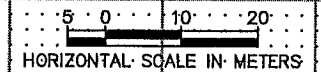
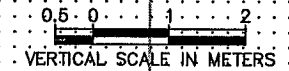
2 OF 3
SHEET NO.
174
539

PLOT DATE: Dec 27, 1999 5:13pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Str-242sup04.dwg

242LEGD1
CURVE #150
R = 80.000 m
50 km/hr
e = 0.03 m/m
PC = 8+002.908
PT = 8+049.470



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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:
242SUP04
 DATE:
NOVEMBER 5, 1999



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



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Kevin P. Kielb
 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

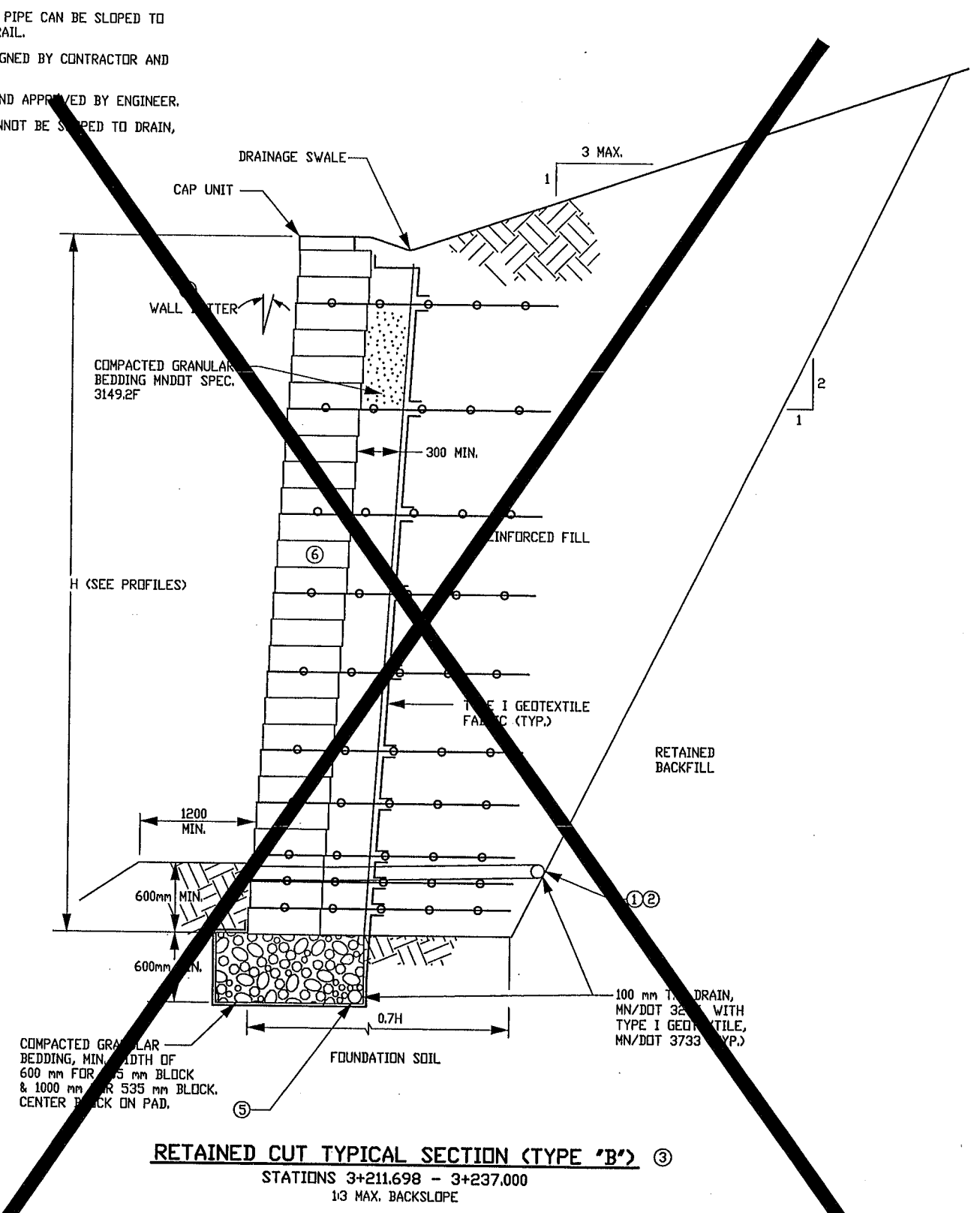
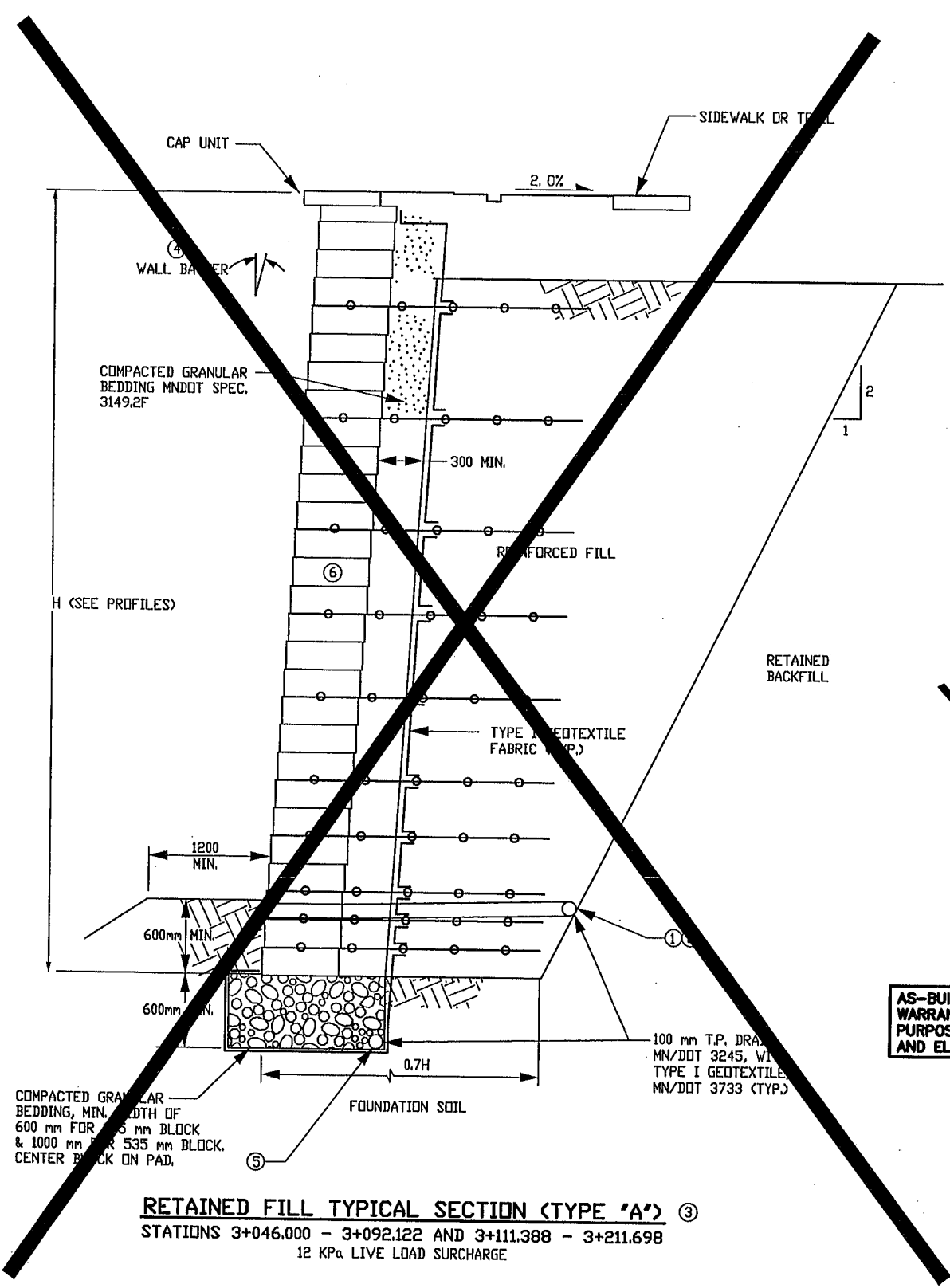
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

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.

WALL REMOVED
FROM PROJECT

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PLOT DATE: Jun 28, 2000
DISK FILE NAME: (14.01) R:\33889\33889028\33889\PLAN_SHT\ENGRING\242WDET1.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JL	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
CHCKED BY: PBD/KPK	DWG. NAME: 242WDET1	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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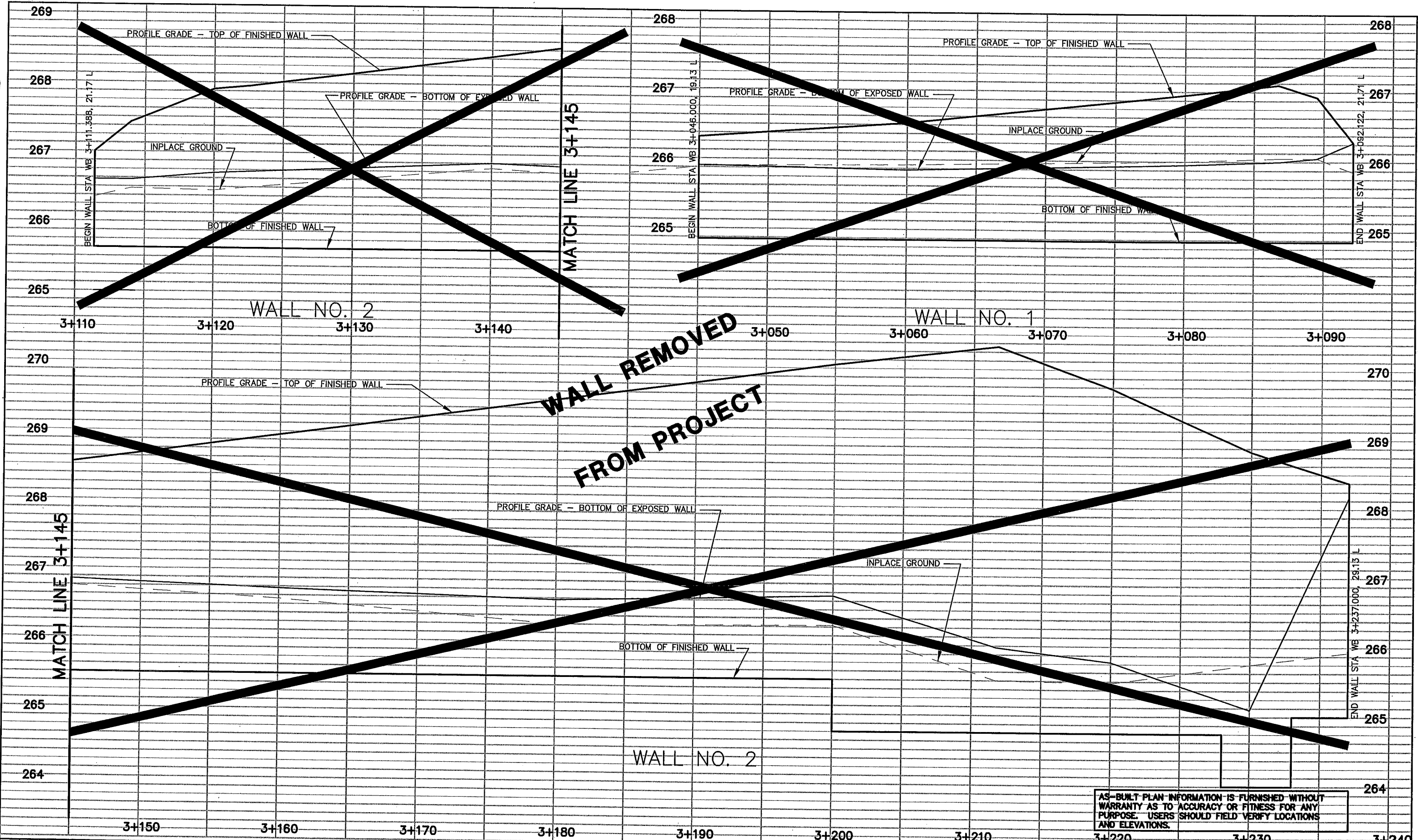
DATE: _____ MINN. REG. NO. _____

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

MODULAR BLOCK RETAINING WALL DETAILS

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	176
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJK	7/5/00	MOD. REQ. #38: REMOVED WALL FROM PROJECT
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	
DRAWN BY: PMJ	DESIGN BY: MKM
CHKD. BY: PBD/KPK	DWG. NAME: WALLPROF
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)

A DAMES & MOORE GROUP COMPANY

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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

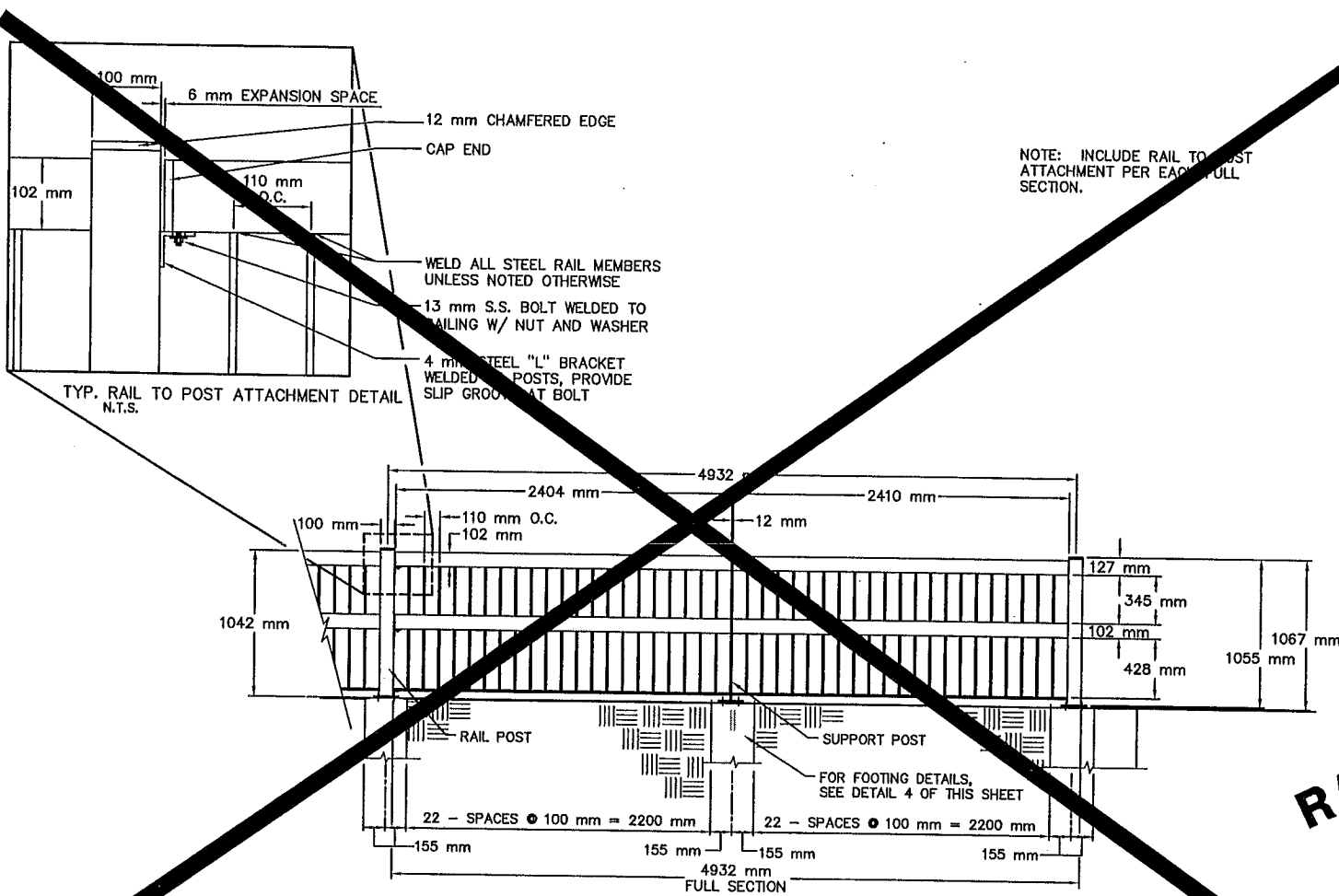
SHEET NO.
177

539

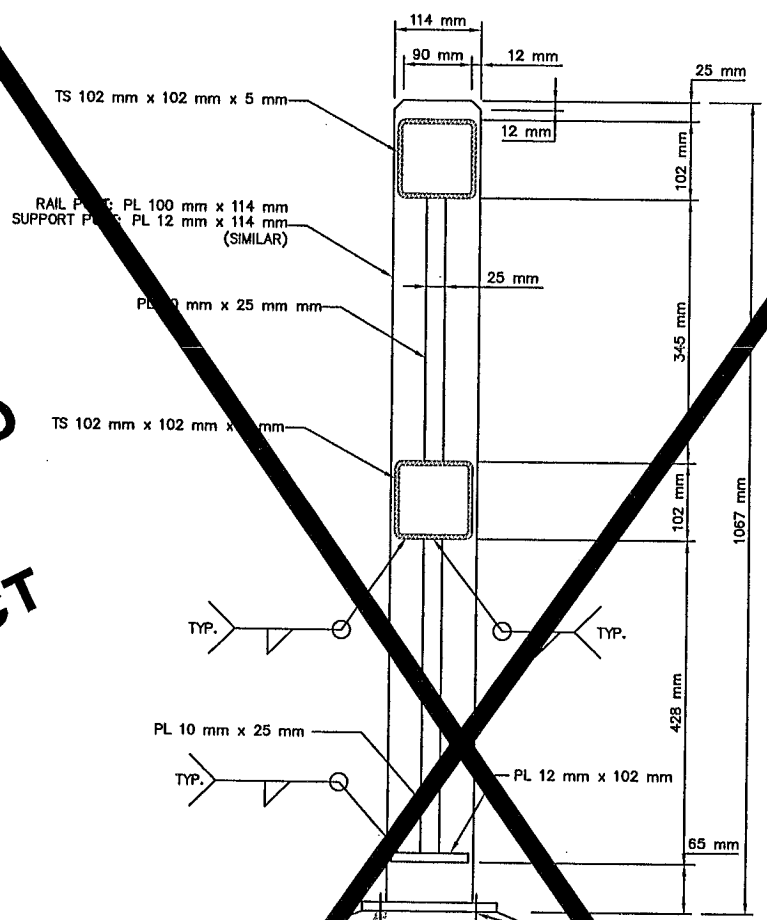
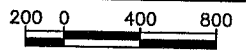
PLOT DATE: Jun 28, 2000

D:\33889\33889028\33889028\PLAN_SHT\ENGINEERING\WALLPROF.dwg

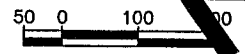
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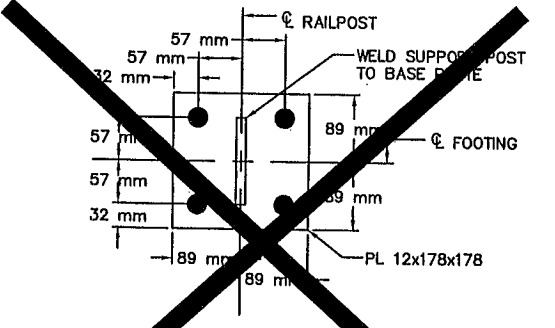
ELEVATION OF ORNAMENTAL FENCE DESIGN SPECIAL A
SCALE IN MILLIMETERS:



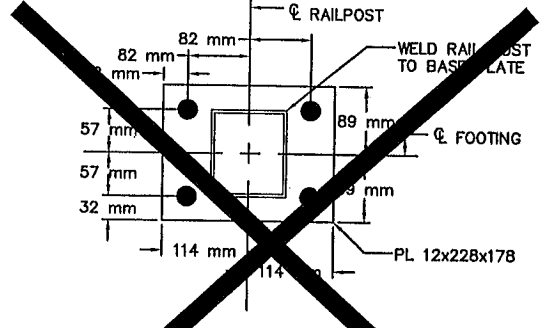
TYPICAL FENCE SECTION
SCALE IN MILLIMETERS:



RAILING REMOVED
FROM PROJECT



SUPPORT POST BASE PLATE
SCALE IN MILLIMETERS:

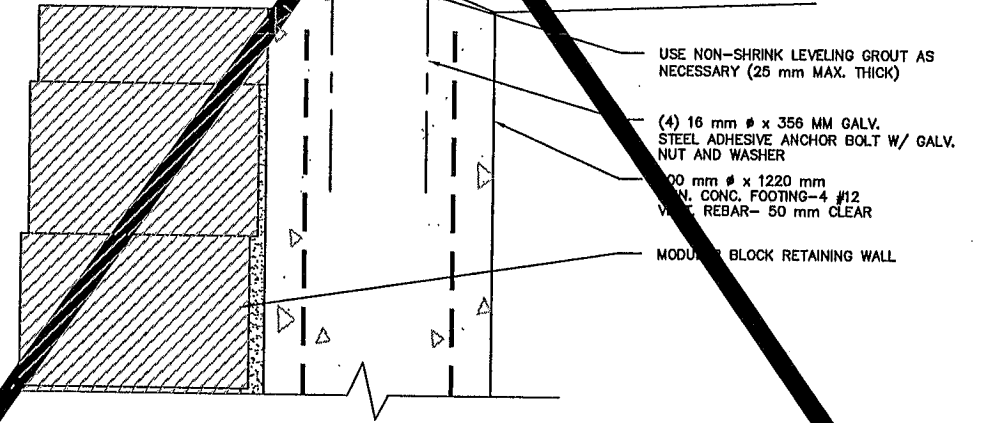


RAIL POST BASE PLATE
SCALE IN MILLIMETERS:



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 PLATE AND ALL EXPOSED METAL SURFACES SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS, RAL 8017.
5. RAILING SHALL BE GROUNDING WITH 16mm DIA. COPPER ROD AS PER SPEC. 2557.
6. ADHESIVE ANCHOR BOLT CAPACITY SHALL MEET OR EXCEED THOSE PROVIDED FOR THE HILTI "HIT HYPER" INJECTION ADHESIVE ANCHOR.
7. COLOR OF NON-SHRINK GROUT SHALL BE GREY.
8. ALL FOOTING CONCRETE TO BE 3Y43.



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED NOTE B CONC. FOOTING FROM 1A43 TO 3Y43
2	JUL	7/5/00	MOD. REQ. #36: REMOVED RAIL FROM PROJECT
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
M.J.F.
DESIGN BY:
TPH
CHKD. BY:
KPK/PBD
DWG. NAME:
RW_RAILG
DATE:
NOVEMBER 5, 1999



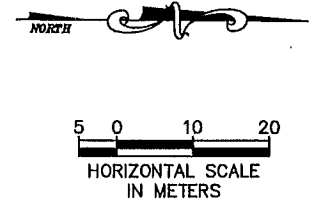
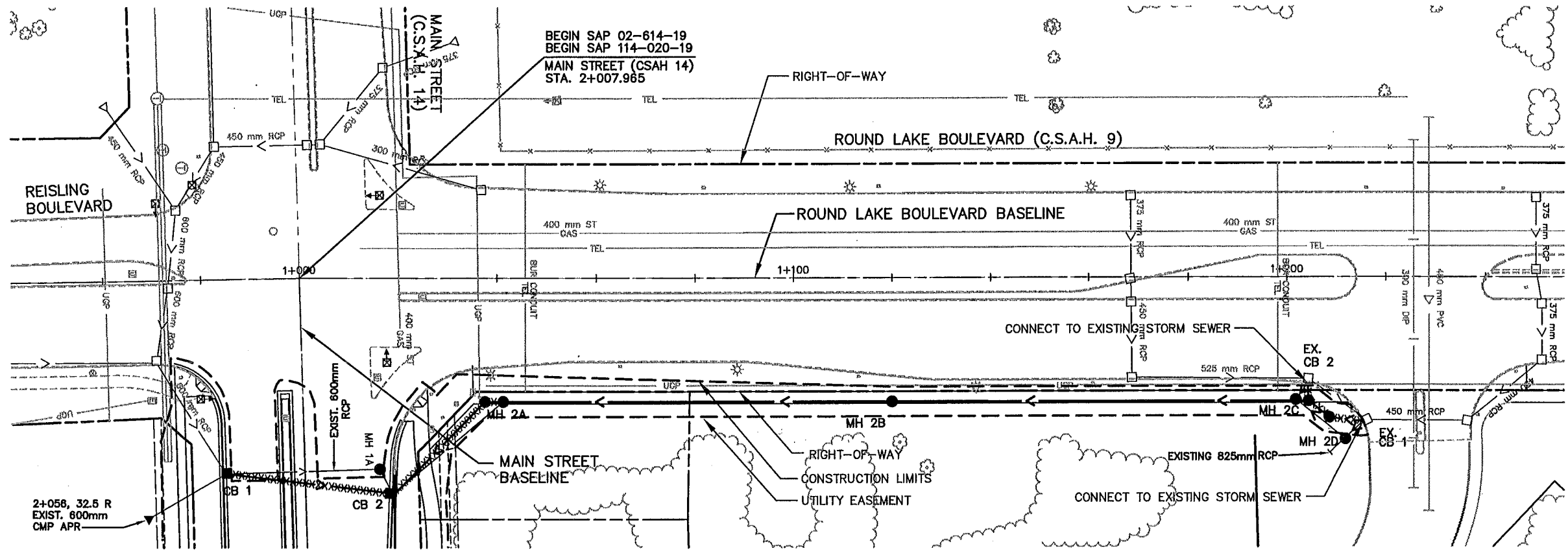
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.10.
Kevin P. Kuelb
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
RAILING DETAIL ON RETAINING WALL
MAIN STREET NEAR AMOCO STATION

S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.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

ET DRAWINGS
 PBOX
 2E-CLM
 2-PUT
 M-LATI
 2-ALIW
 86SITE
 2PLNW
 2-
 21
 2M-
 2-EUT



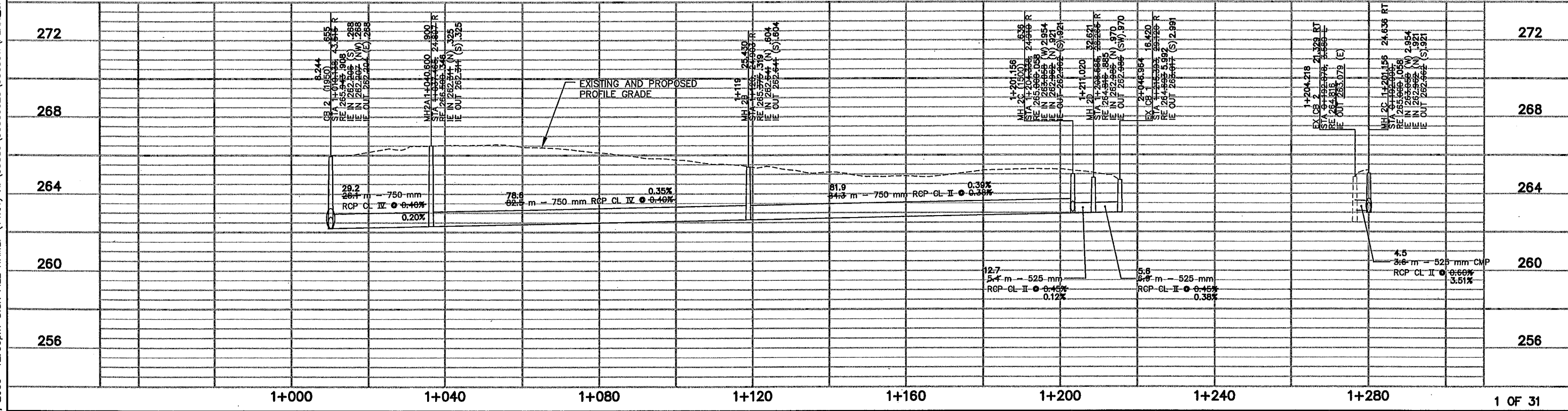
STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
 MANHOLES - ELK RIVER CONCRETE PRODUCTS

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NOTE:
 STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

SEE SHEET 2 OF 31

PLOT DATE: Jan 03, 2000 12:03pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sht\ENGRING\RONDR01.dwg



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: JJJ/BDB
 CHECKED BY: PBD/KPK
 DWG. NAME: RONDR01
 DATE: NOVEMBER 5, 1999

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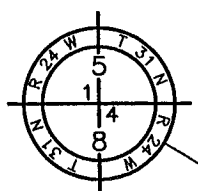
 DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
ROUND LAKE BOULEVARD
 DRAINAGE PLAN AND PROFILE
 STATION 1+000.000 TO STATION 1+255.000
 CITY PROJECT 98-20

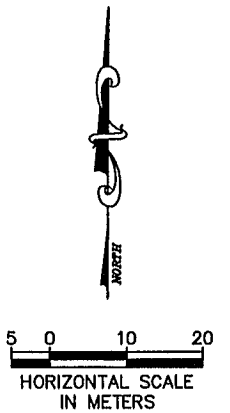
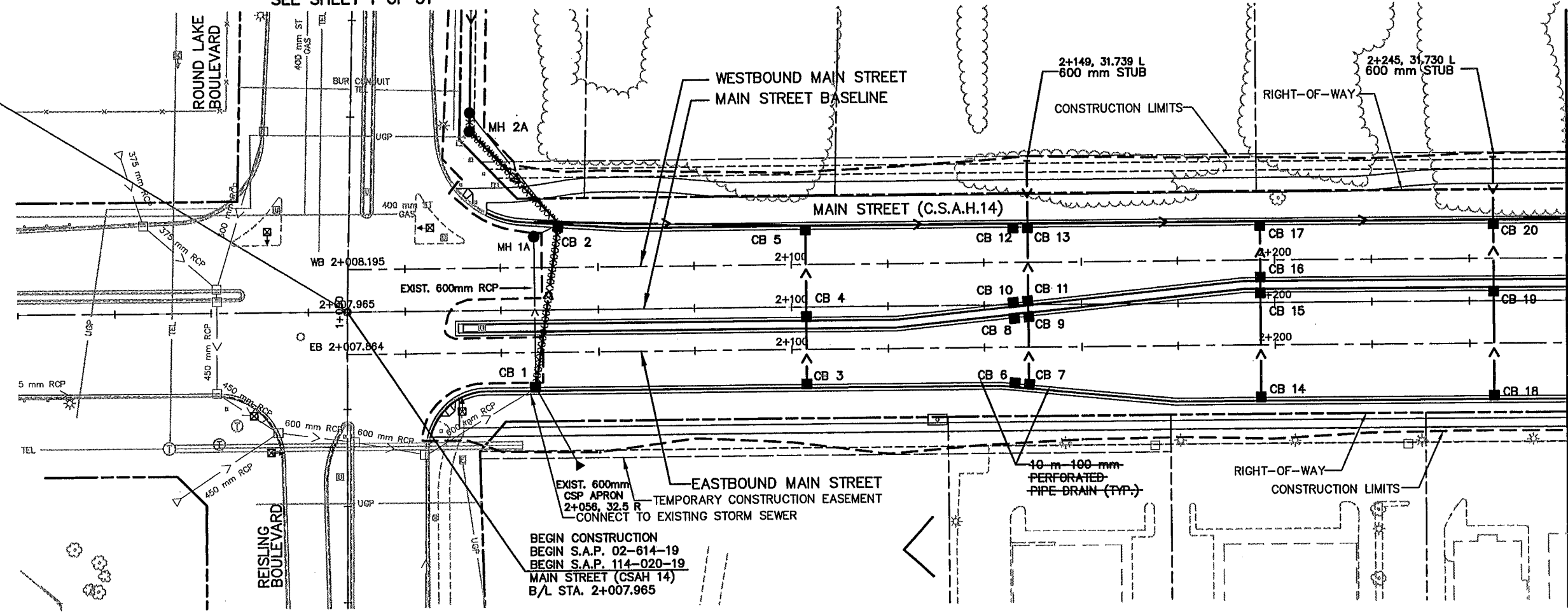
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	179
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	539
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

1 OF 31

242-PUT
SAPBOX
242CLM-W
242-EUT
242PLNW
242-ALIW
MAIN-PRF
242-ESUM
242-111-111
24



SEE SHEET 1 OF 31



MATCH LINE 2+260

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.

BEGIN CONSTRUCTION
BEGIN S.A.P. 02-614-19
BEGIN S.A.P. 114-020-19
MAIN STREET (CSAH 14)
B/L STA. 2+007.965

EXIST. 600mm CSP APRON
2+056.32.5 R
CONNECT TO EXISTING STORM SEWER

272	STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS MANHOLES - ELK RIVER CONCRETE PRODUCTS	EXISTING CENTERLINE GROUND PROFILE	272
268			268
264			264
260	WESTBOUND & EASTBOUND PROPOSED PROFILE GRADE		260
256			256

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 2+260

2 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CORRECTED MAIN ST. S.A.P. No. 6
2	JUL	3/06/00	ADDED NOTE: CB1 CONNECT TO EXIST. STORM SEWER
3	JUL	4/06/00	MOVED CB No. 6, 8, 10, 12. REVISED IE CB 13.
4	TSR	2/27/04	MOD. REQ. #8; MOD. STRUC. SIZE CB 12, CB 13 & CB 20 AS-BUILT

DESIGN FILE: 33889028
DRAWN BY: PMJ/IKR
DESIGN BY: JJJ
CHKD. BY: PBD/KPK
DWG. NAME: 242DR01
DATE: NOVEMBER 5, 1999

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

A DAMES & MOORE GROUP COMPANY

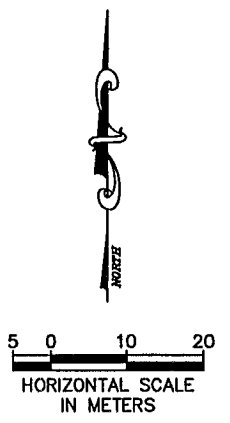
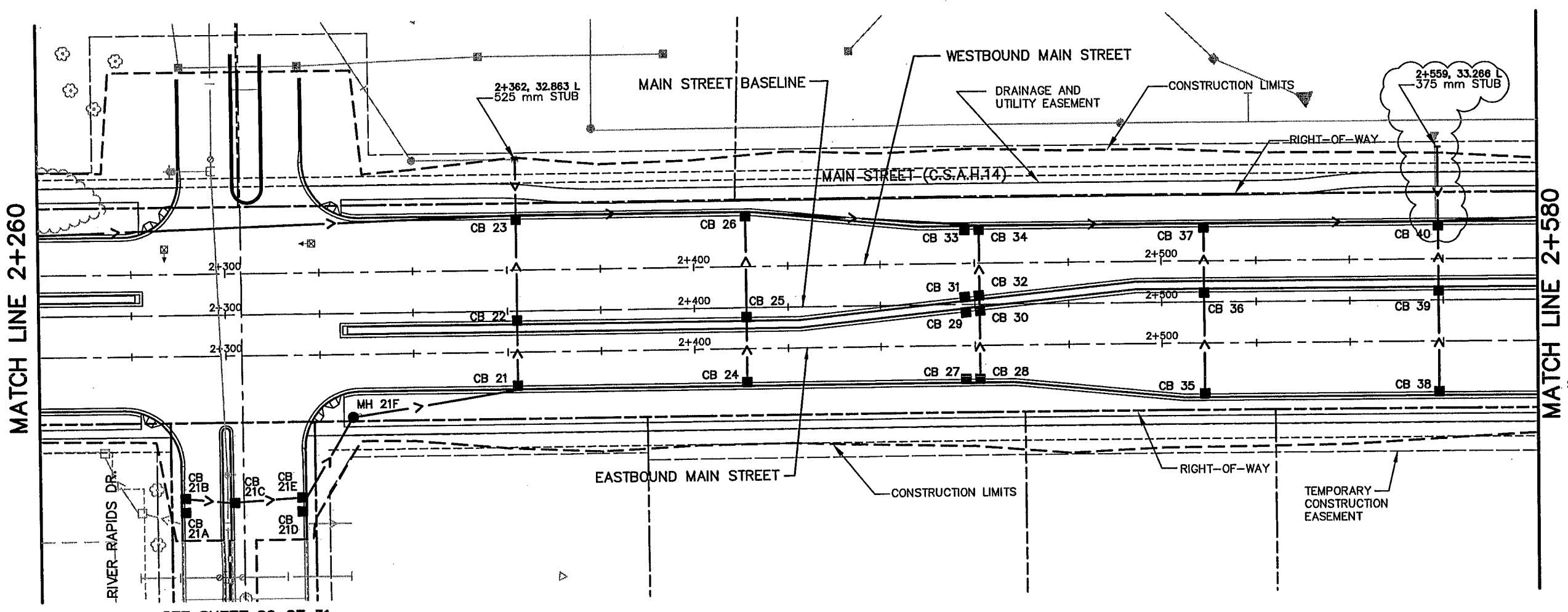
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P. Kiehl
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	SHEET NO. 180 539
	S.A.P. 02 - 618 - 24	
	S.P. 114 - 010 - 11	
	S.A.P. 114 - 020 - 19	
	S.A.P. 114 - 136 - 02	

8388UTL
SAPBOX
242CLM-W
242-PUT
242PLNW
242-ALW
MAIN-PRF
242-ESUM
242MHVEG
242-TO
2

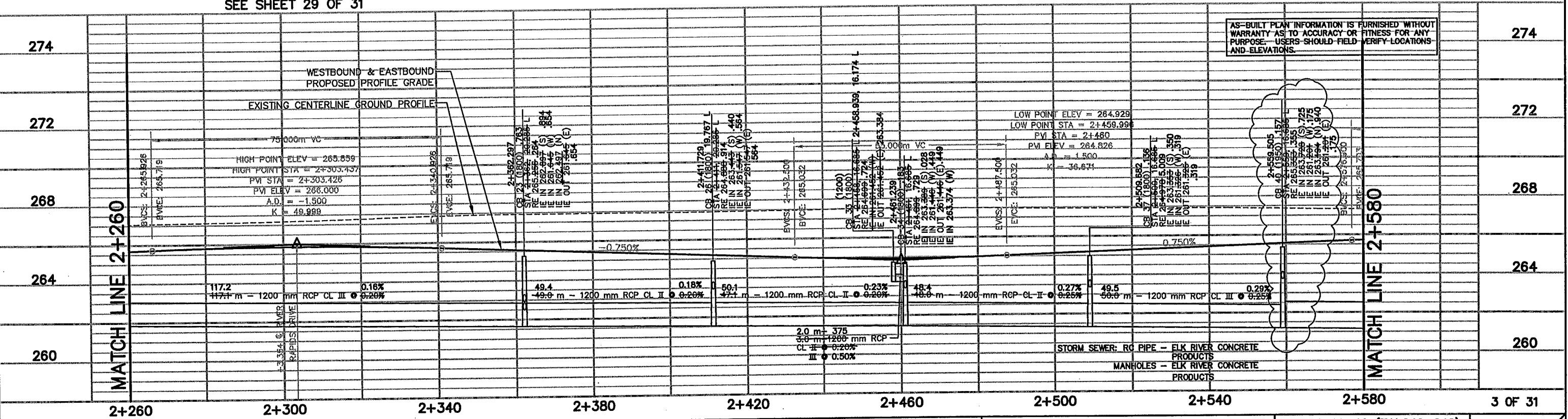


STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
MANHOLES - ELK RIVER CONCRETE PRODUCTS

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.

SEE SHEET 29 OF 31

PLOT DATE: Dec 15, 2004 5:14pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\GRING\242dr02.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JL	3/08/00	MOVED CB No's 21A, 21D, 27, 29, 31, 33.
2	JL	4/06/00	MOD. REQ. #8: MODIFIED CB 33
3	JL	7/07/00	MOD. REQ. #46: ADDED STUB TO CB 23
4	JL	04/04/01	MOD. REQ. #83: ADDED STUB TO CB 40
5	TSR	2/27/04	AS-BUILT

DESIGN FILE: 33889028	DESIGN BY: DJL
DRAWN BY: PBD	CHKD. BY: PBD/KPK
DWG. NAME: 242DR02	DATE: NOVEMBER 5, 1999

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

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

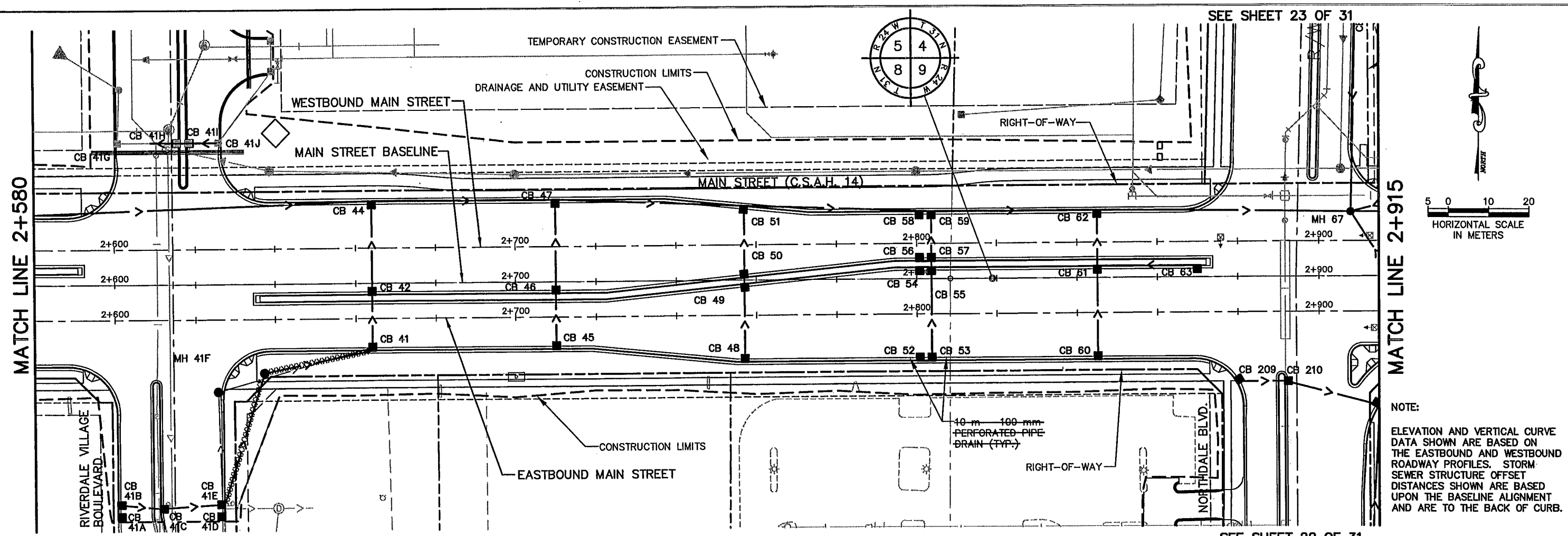
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
DRAINAGE PLAN AND PROFILE
STATION 2+260.000 TO STATION 2+580.000

CITY PROJECT 98-20

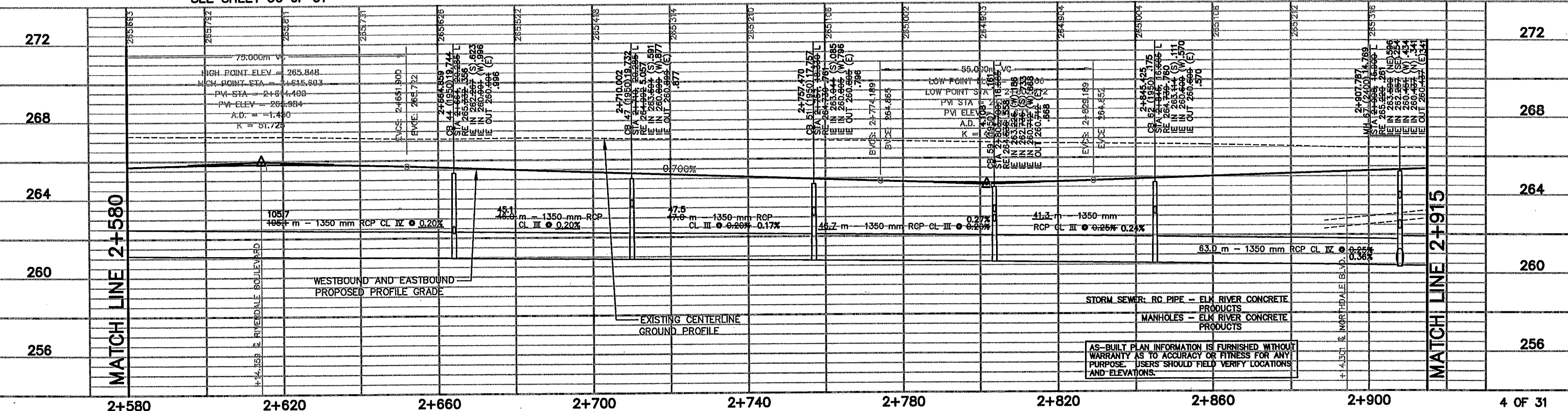
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	181
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	539
S.A.P. 114 - 127 - 02	

PBOX
86UT1L
2CLM-W
2EPROF
2-PUT
2PLNW
2-
.11
2-
2MHETO
2-EUT

PLOT DATE: Apr 04, 2004 3:14pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH\GRING\242dr03.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.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	MOVED CALL-OUTS FOR CLARITY
2	JUL	3/06/00	MOVED CB No's 41A, 41D, 52, 54, 56, 58.
3	JUL	3/20/00	MOVED MH 87
4	JUL	4/17/00	MOD. REQ. #10; MOVED CB 68, MOD. IE IN (NE) TO MH 87
5	TSR	2/27/04	AS-BUILT

DESIGN FILE:
33889028
DRAWN BY:
PMJ
DESIGN BY:
JJL
CHKD. BY:
PBD/KPK
DWG. NAME:
242DR03
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)

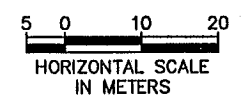
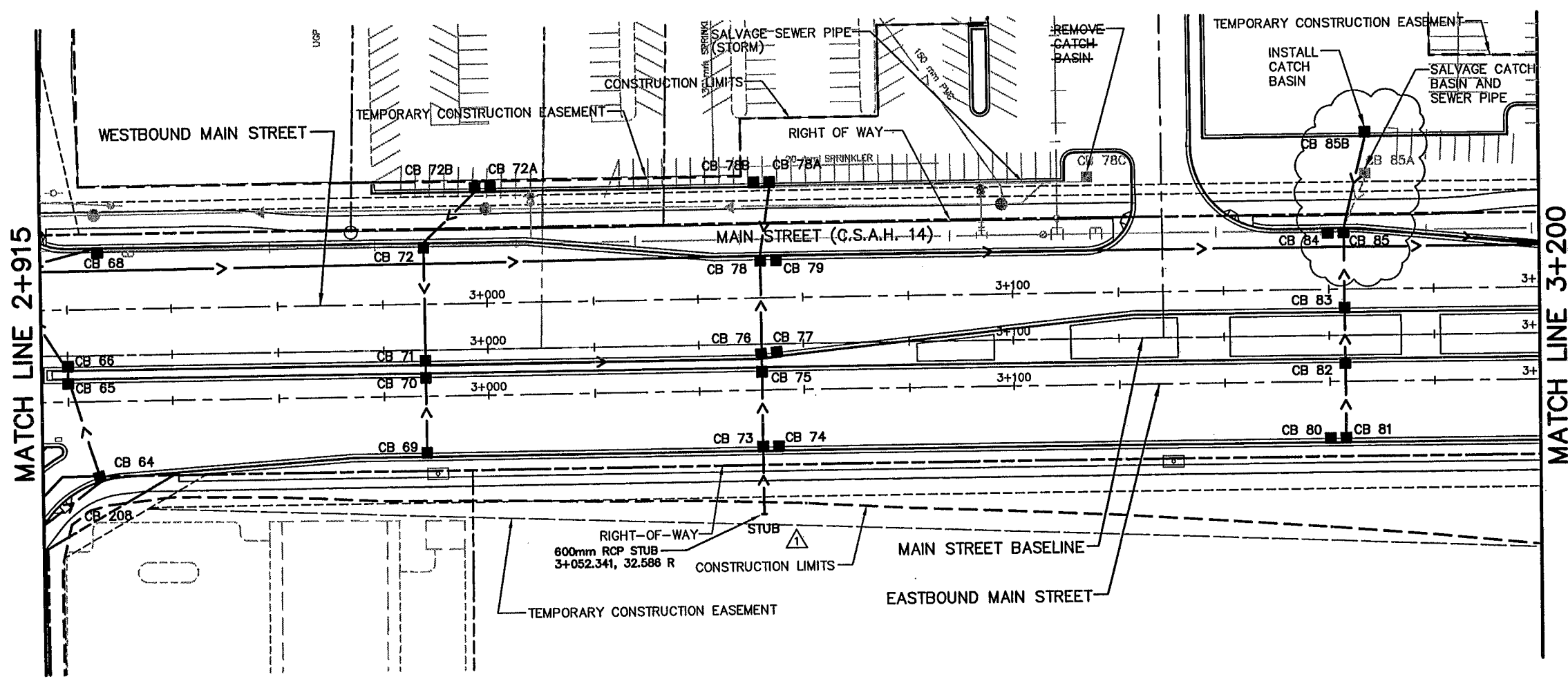
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16

Kevin P. Kiehl
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)	SHEET NO.
S.A.P.	02 - 614 - 19	182
S.A.P.	02 - 618 - 24	
S.P.	114 - 010 - 11	
S.A.P.	114 - 020 - 19	
S.A.P.	114 - 136 - 02	
S.A.P.	114 - 127 - 02	539

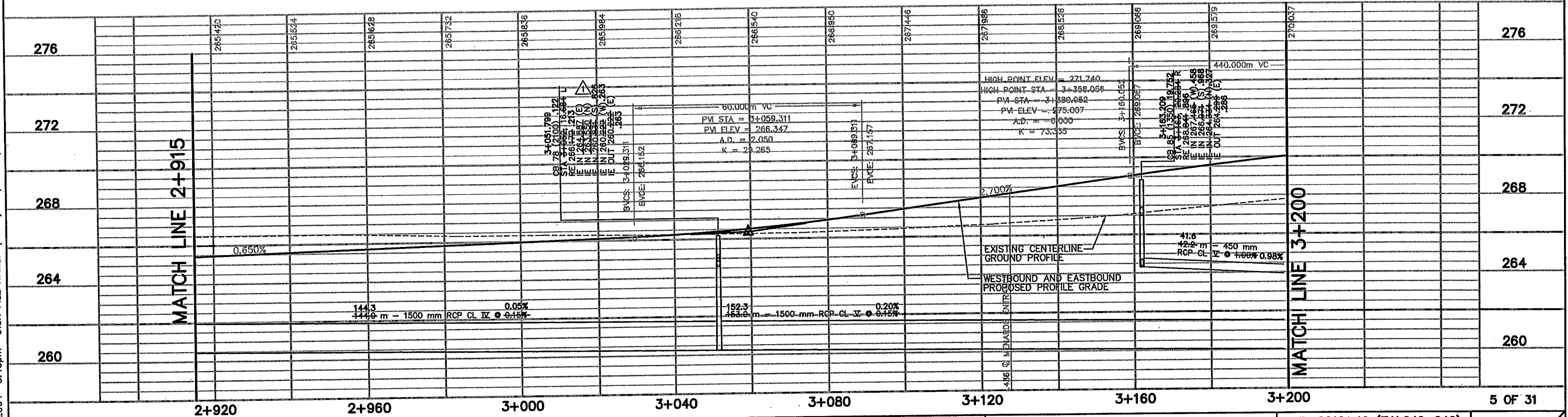
PBOX
2CLM-W
2EPROF
2-PUT
2PLNW
2-AI 1W
.1M
2-MHL
2-EUT



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	LABELLED T.C.E.
2	JUL	2/11/00	ADDENDUM: ADDED STUB, LOWERED LATERAL SYSTEM
3	JUL	3/08/00	MOVED CB No's 72A, 74, 77, 78B, 79, 80, 84.
4	JUL	3/20/00	MOVED MH 67
5	JUL	4/06/00	MOD. REQ. #8: MODIFIED SIZE OF CB 85
6	JUL	4/17/00	MOD. REQ. #10: MOVED CB 68
7	JUL	7/5/00	MOD. REQ. #38: REMOVED CB78C & CB85A, ADDED CB85B
8	TSR	2/27/04	AS-BUILT

DESIGN FILE:
33889028
DRAWN BY:
PMJ
DESIGN BY:
JUL
CHECKED BY:
PBD/KPK
DWG. NAME:
242DR04
DATE:
NOVEMBER 5, 1999

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kevin P. Kullb

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.	NO.	DESCRIPTION
S.P.	02 - 614 - 19	
S.P.	02 - 618 - 24	
S.P.	114 - 010 - 11	
S.A.P.	114 - 020 - 19	
S.A.P.	114 - 136 - 02	
S.A.P.	114 - 127 - 02	

S.P. 0212-40 (T.H.242=242)

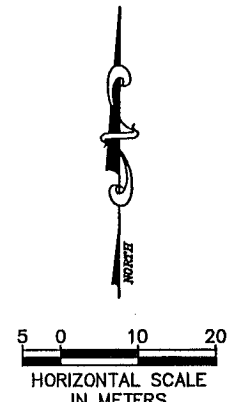
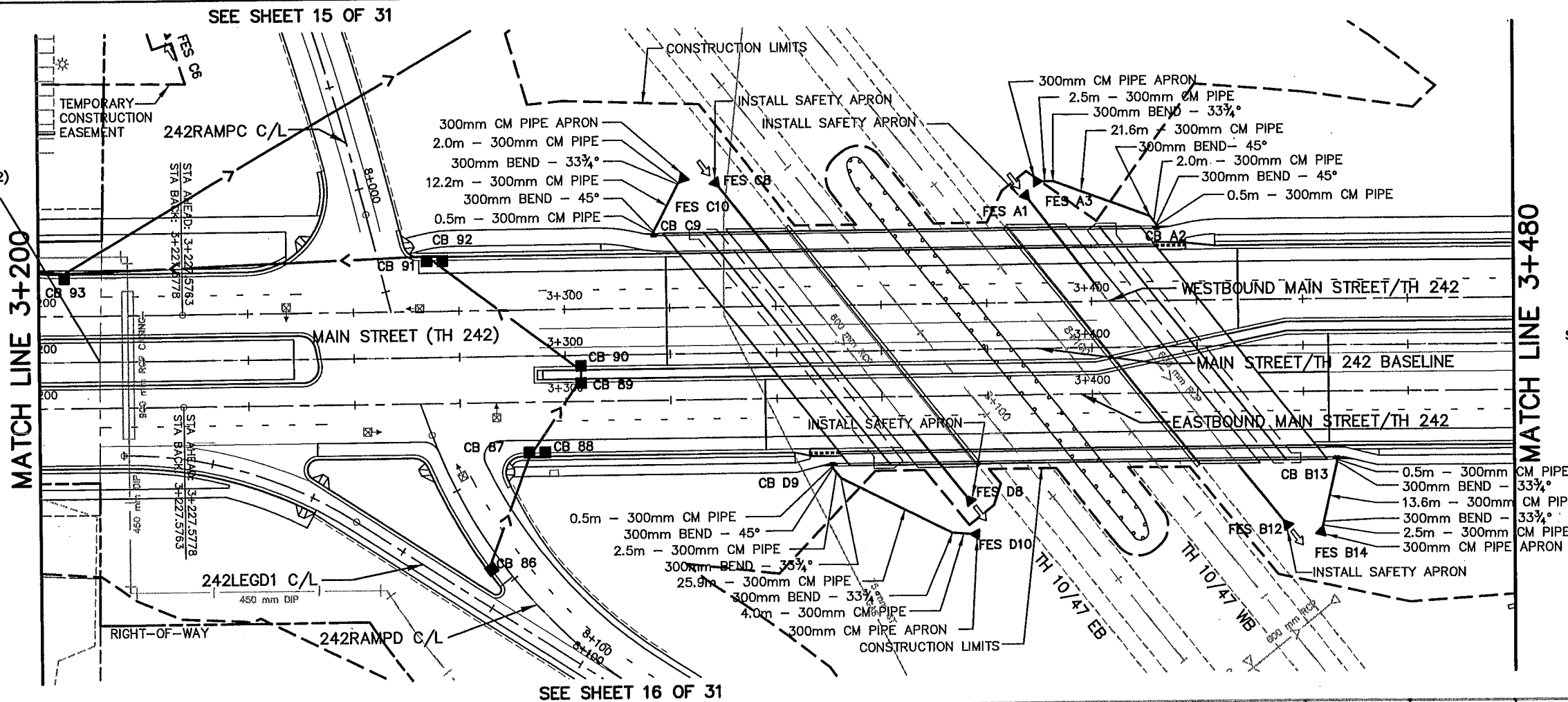
5 OF 31

SHEET NO. 183

539

APBOX
 I2E_DRN
 I2EPROF
 I2MHETO
 I2-EUT
 I2E-AL.1
 I2F
 I2L
 I2E-CLM
 I2-ESUM

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



STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
 MANHOLES - ELK RIVER CONCRETE PRODUCTS

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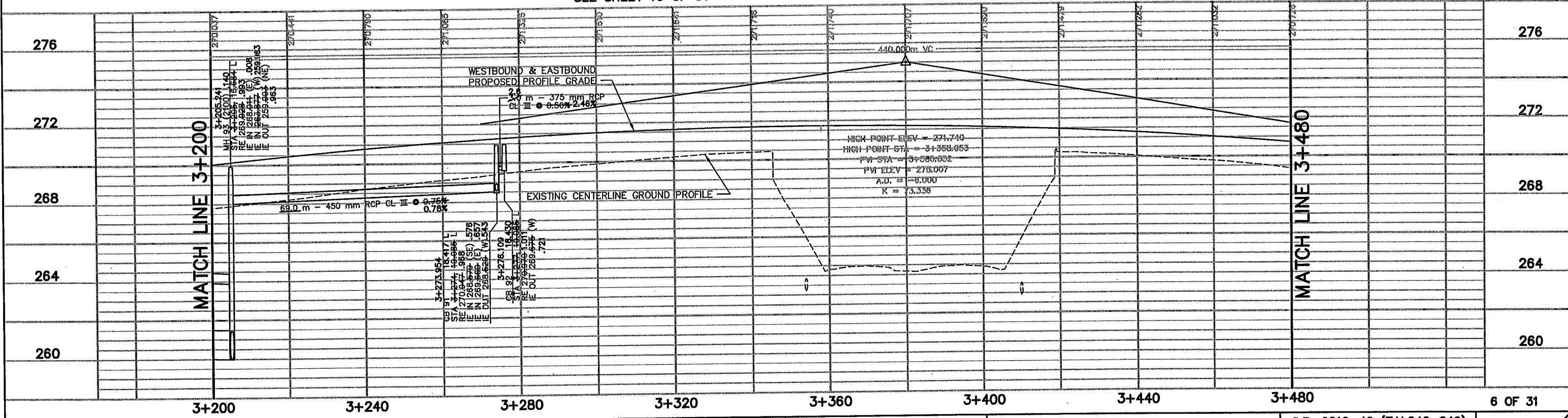
NOTE:
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SEE SHEET 16 OF 31

SEE SHEET 15 OF 31

MATCH LINE 3+200

MATCH LINE 3+480



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	12/30/99	EXTENDED CULVERTS UNDER TH242 BRIDGE
2	JUL	3/08/00	MOVED CB No 88 & 92. REVISED IE CB 92.
3	JUL	7/5/00	MOD. REQ. #38: REVISED MENARDS, REMOVED WALL
4	JUL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
5	TSR	2/27/04	AS-BUILT

DESIGN FILE: 33889028	DESIGN BY: JUL
DRAWN BY: PJ/R/JJ	DWG. NAME: 242EDR05
CHECKED BY: PBD/KPK	DATE: NOVEMBER 5, 1999

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 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

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Kevin P. Xiehl

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

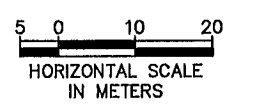
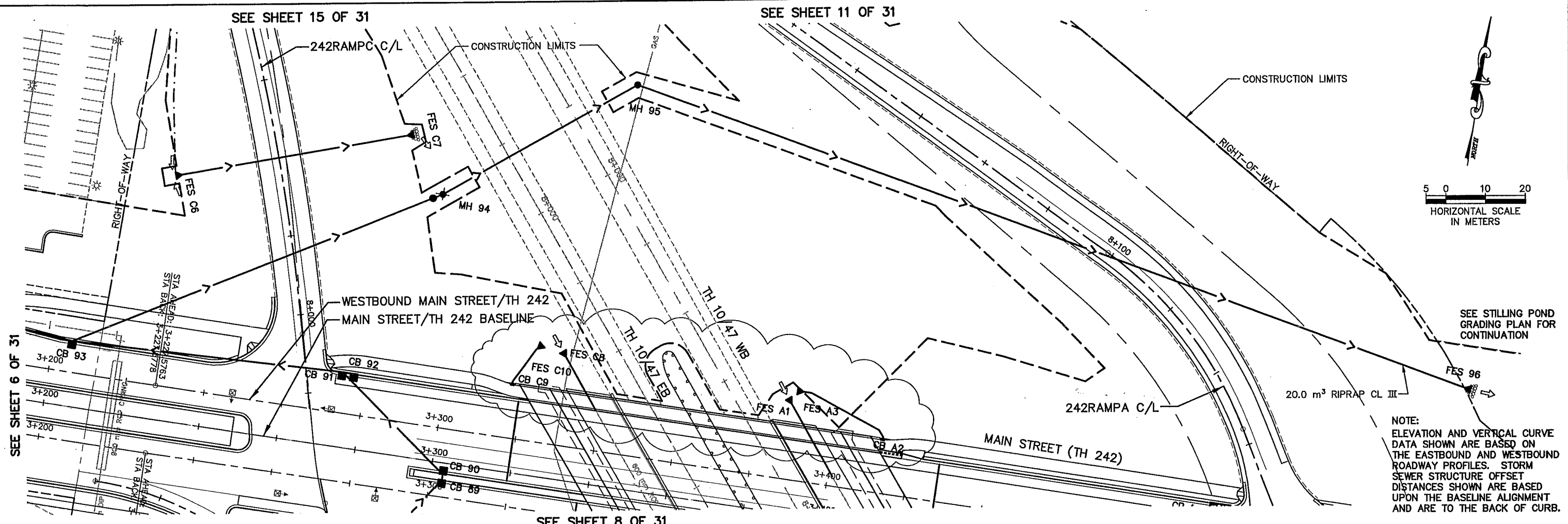
MAIN STREET/T.H. 242 RECONSTRUCTION
 MAIN STREET (T.H. 242)
 DRAINAGE PLAN AND PROFILE
 STATION 3+200.000 TO STATION 3+480.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02-614-19	184
S.A.P. 02-618-24	539
S.P. 114-010-11	
S.A.P. 114-020-19	
S.A.P. 114-138-02	
S.A.P. 114-127-02	

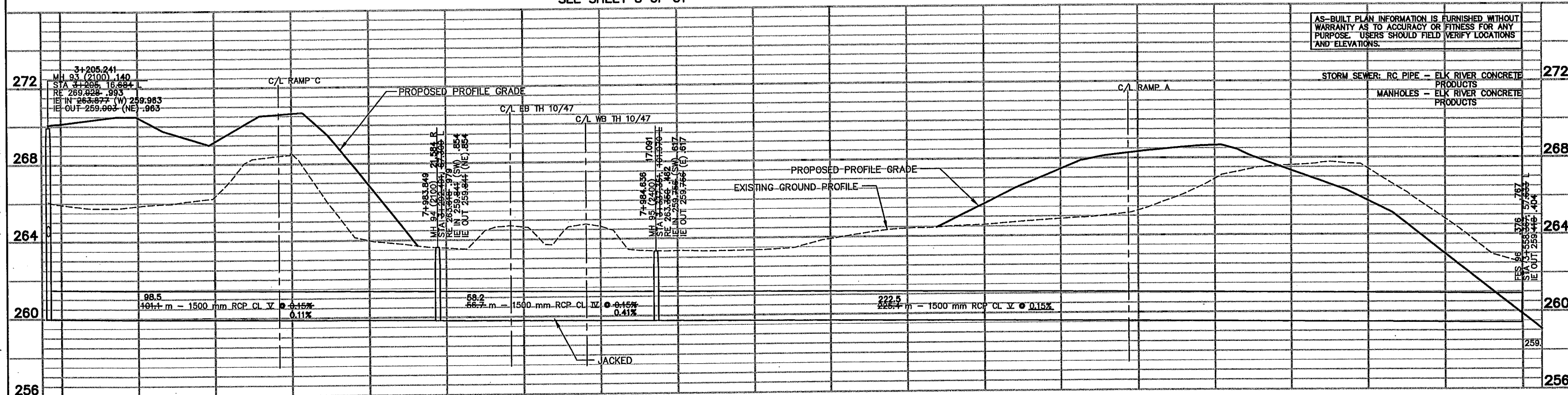
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TILLPND
 TMXINGI
 APBOX
 42E_DRN
 42MHETO
 42-EUT
 42F-AL I
 47
 42
 42E-CLM
 42-ESUM



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.

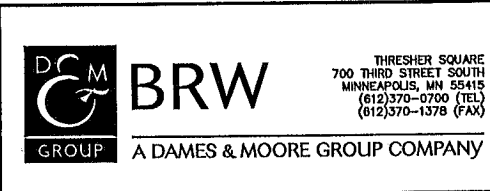
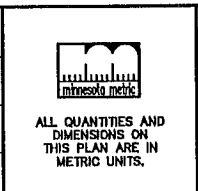
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 AND ELEVATIONS.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLL	12/30/99	MOVED FES 96
2	JLL	4/08/00	MOD. REQ. #8: MOD. PIPE LENGTH: MH 95 TO FES 96
3	JLL	7/8/00	MOD. REQ. #38: REVISED MENARDS, REMOVED WALL
4	JLL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
5	TSR	2/27/04	AS-BUILT

DESIGN FILE:
 33889028
 DRAWN BY:
 PM/JR/JJ
 DESIGN BY:
 JLL
 CHKED. BY:
 PBD/KPK
 DWG. NAME:
 242EDR24
 DATE:
 NOVEMBER 5, 1999



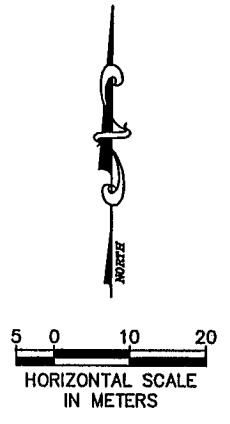
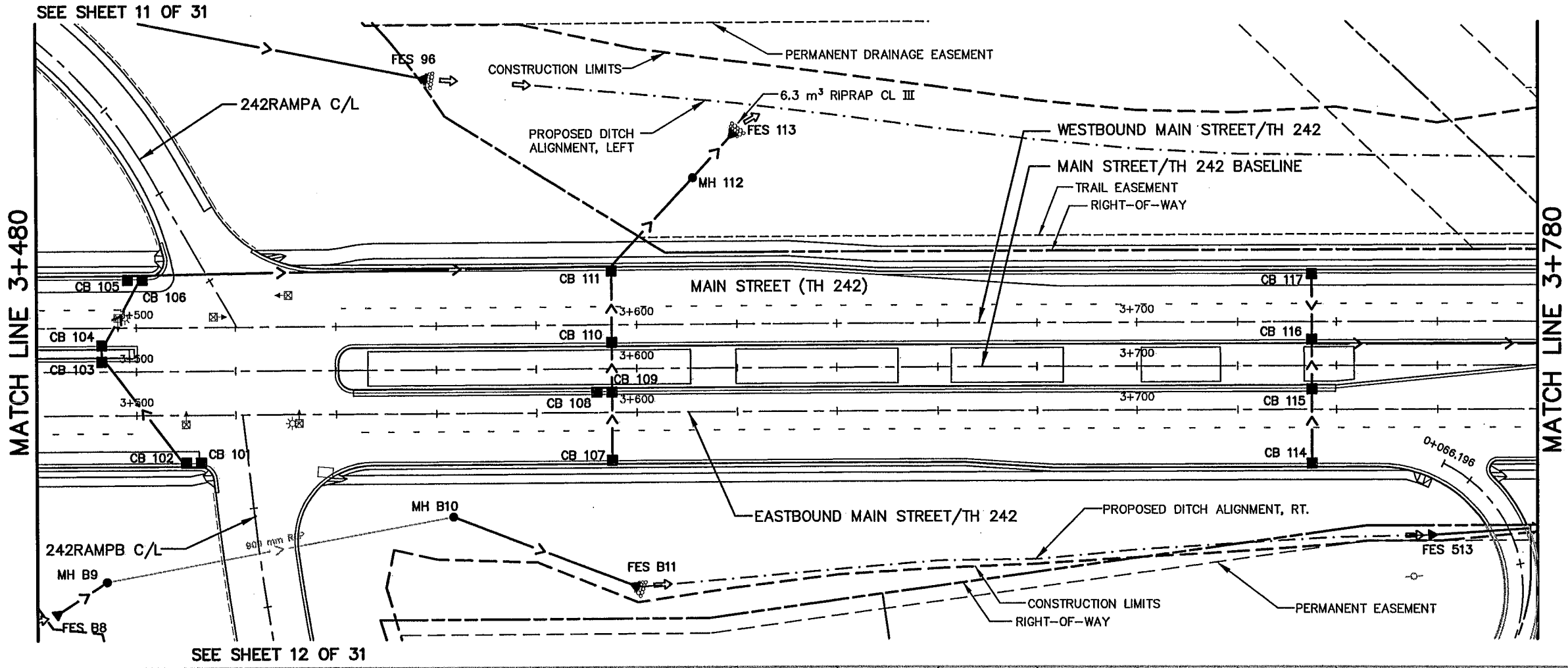
I HEREBY CERTIFY THAT THIS PLAN,
 SPECIFICATION OR REPORT WAS PREPARED BY ME
 OR UNDER MY DIRECT SUPERVISION AND THAT I AM
 A DULY REGISTERED PROFESSIONAL ENGINEER UNDER
 THE STATE OF MINN. STATUTES SECTION 326.02 TO
 326.16
Kevin P. Kielb
 DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
DRAINAGE PLAN AND PROFILE
 MH 93 TO FES 96
 CITY PROJECT 98-20

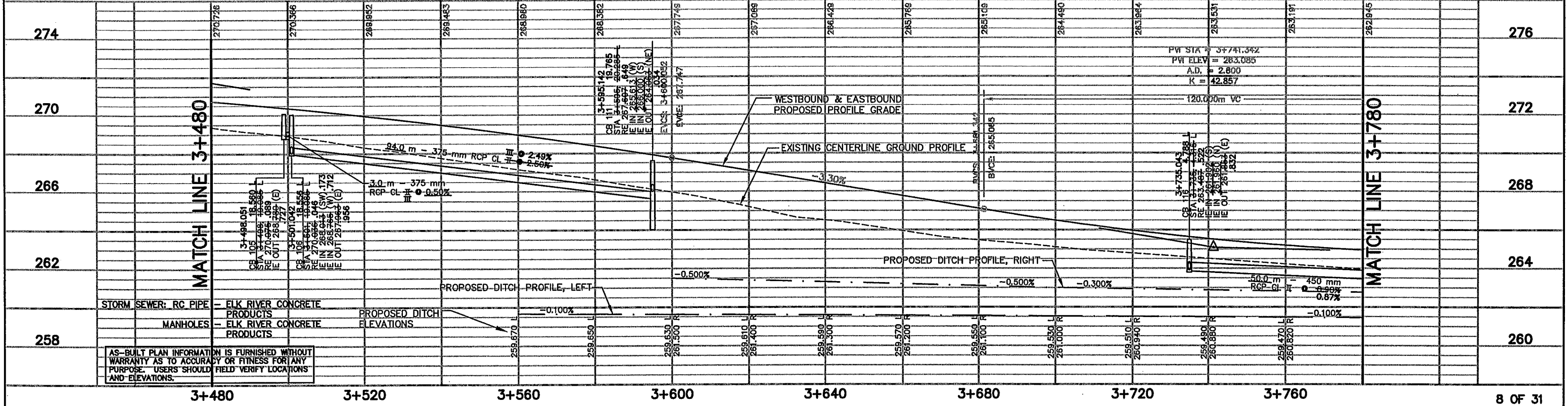
S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
185
539

VPBOX
 I2E_DRN
 I2E-EUT
 I2E-PLN
 I2E-CLM
 I2EPROF
 I2E
 I2



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	CORRECTED EASEMENT LABELS
2	JUL	3/06/00	CHANGED NOTE RE: DRAINAGE & UTIL. EASEMENT TO PERMANENT DRAINAGE EASEMENT
3	TSR	2/27/04	MOVED CB # 102, 105, 108, REVISED IE CB 105, AS-BUILT

DESIGN FILE:
 33889028
 DRAWN BY:
 IKR/JRJ
 DESIGN BY:
 JJJ
 CHKD. BY:
 PBD/KPK
 DWG. NAME:
 242EDR06
 DATE:
 NOVEMBER 5, 1999

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BRW
 THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

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

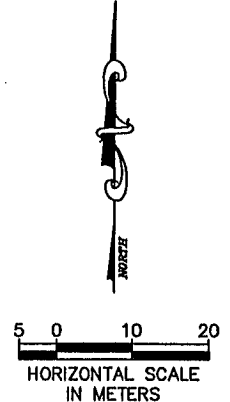
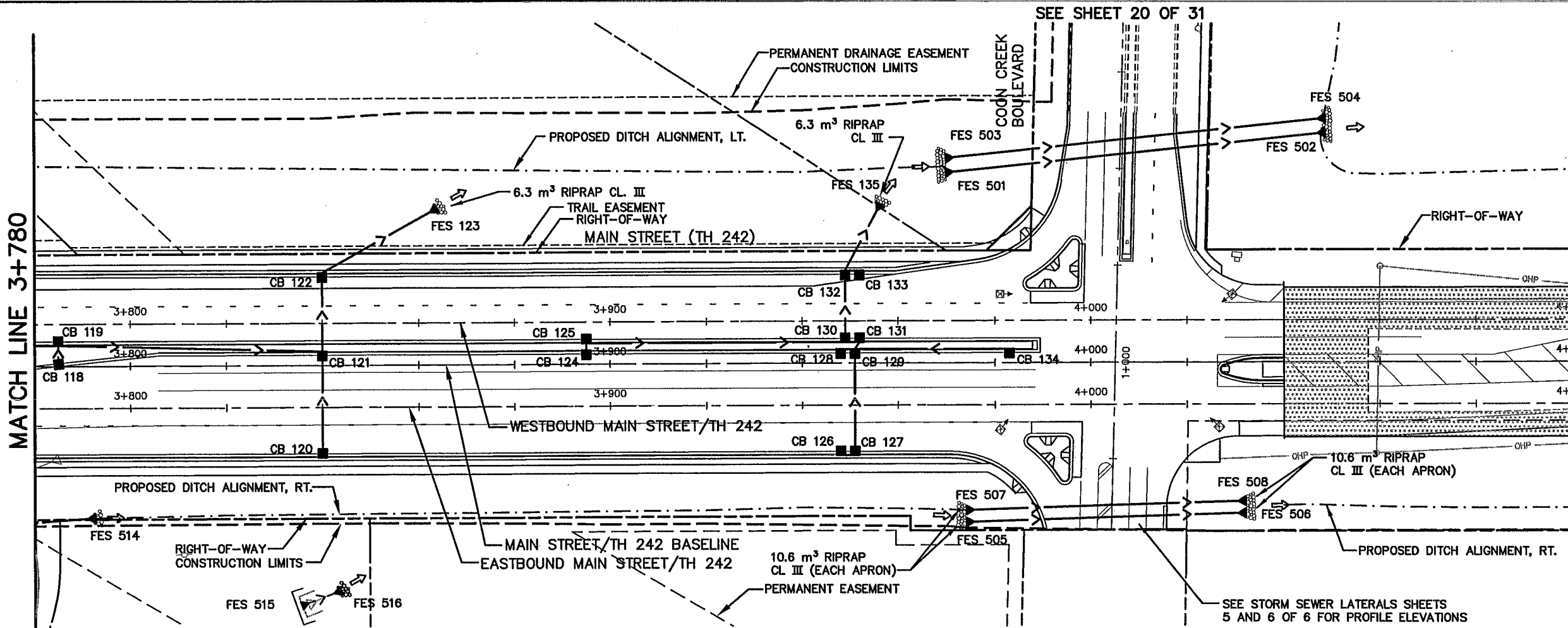
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
 DRAINAGE PLAN AND PROFILE
 STATION 3+480.000 TO STATION 3+780.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	186
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

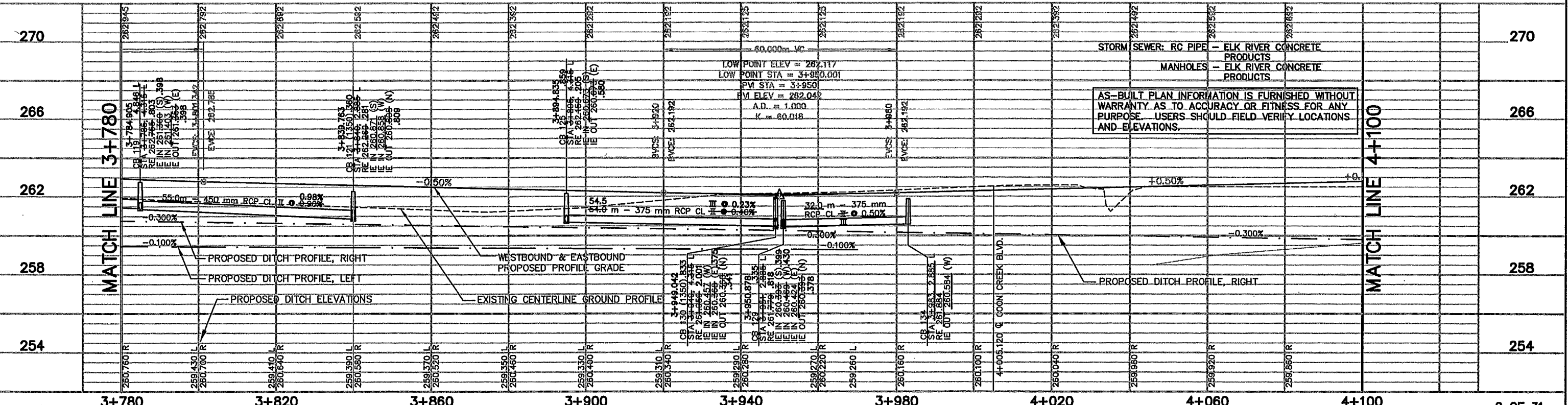
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1TPOND2
 12PLN2A
 1PBOX
 12E-CLM
 12MHETO
 12E.DRN
 12'
 12
 12E--LN
 12E-ALI
 12-ESUM



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.

PLOT DATE: Jul 11, 2000 10:38am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SHT\2edr07.dwg



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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	JUL	3/08/99	MOVED CB No's 128,126,131,133. REVISED IE CB 130.
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
 33889028
 DRAWN BY:
 PM/IR/JJ
 DESIGN BY:
 JUL
 CHKD. BY:
 PBD/KPK
 DWG. NAME:
 242EDR07
 DATE:
 NOVEMBER 5, 1999

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

THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55416
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

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

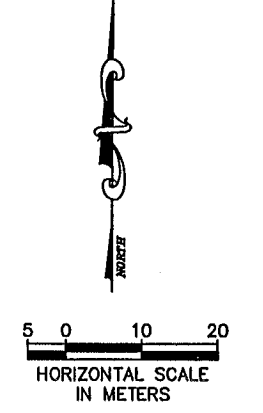
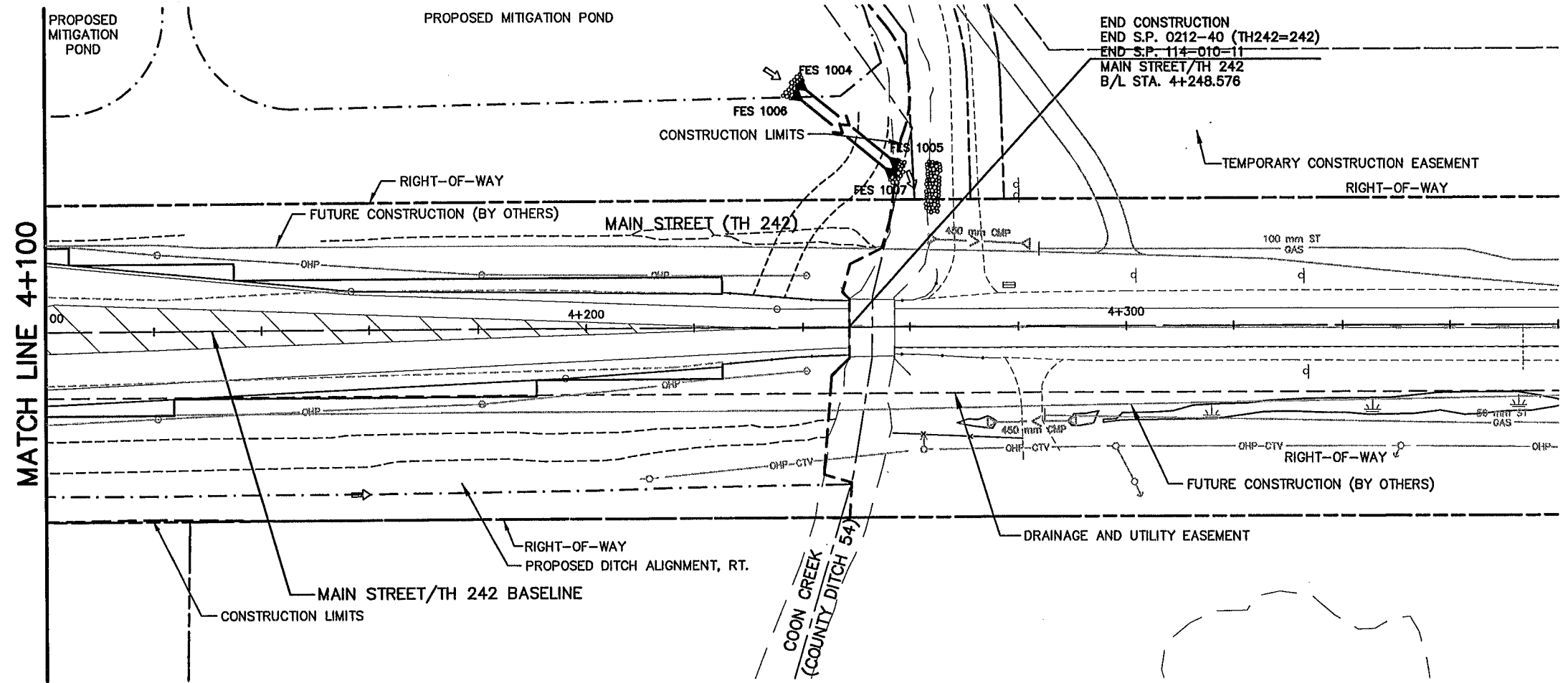
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
 DRAINAGE PLAN AND PROFILE
 STATION 3+780.00 TO STATION 4+100.00

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

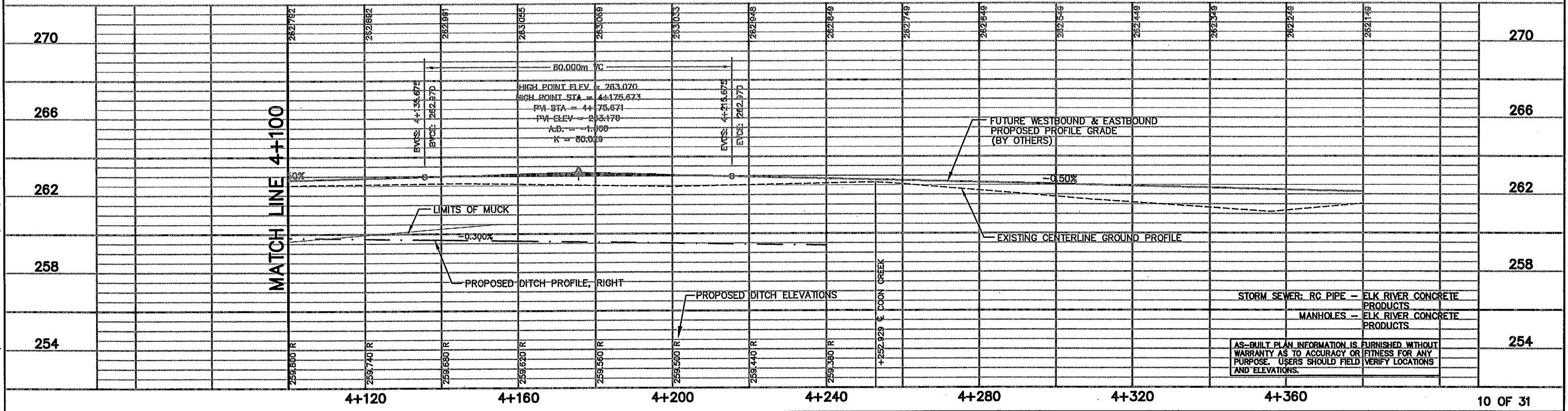
SHEET NO.
187
539

ITPOND2
I2PLN2A
APBOX
I2E-CLM
I2MHETO
I2E_DRN
I2L...
I2E-AL1
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.

PLOT DATE: Jan 07, 2000 1:09pm DISK FILE NAME: (14.01) R:\33889\33889028\PLAN-SHT\2edr08.dwg



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: JUL
CHKD. BY: PBD/KPK	DWG. NAME: 242EDROB	
DATE: NOVEMBER 5, 1999		

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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Kevin P. Kullb

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

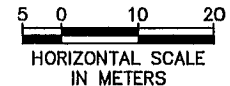
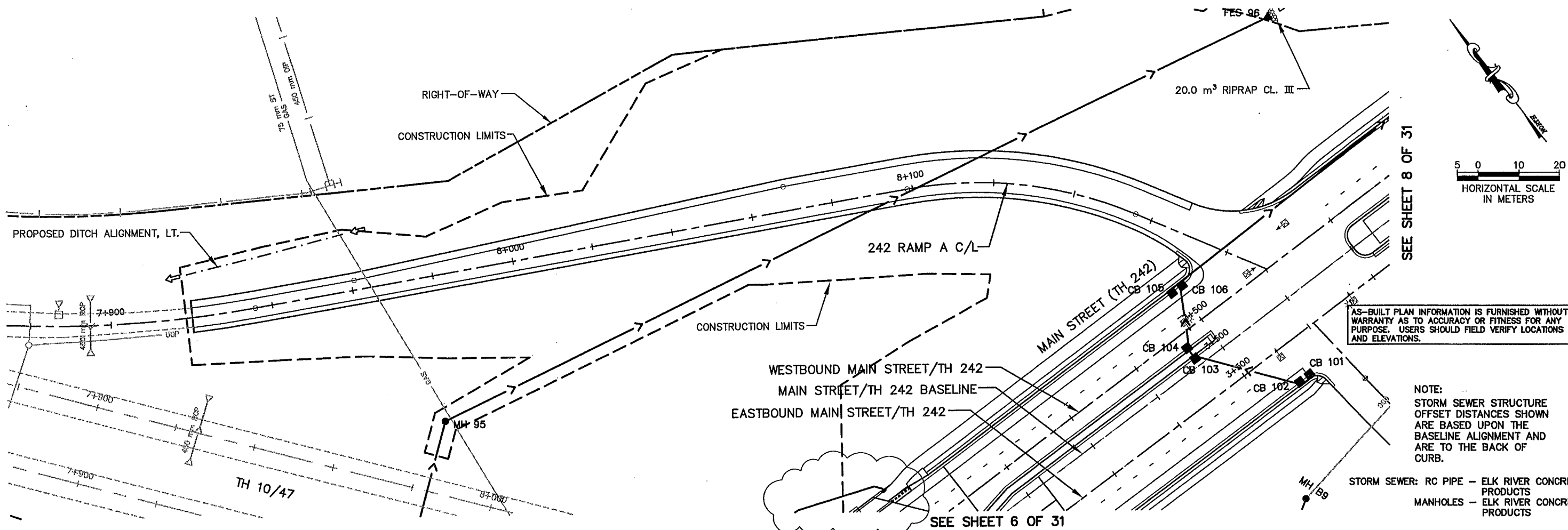
CITY PROJECT 98-20

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 - 138 - 02
S.A.P. 114 - 138 - 02	S.A.P. 114 - 127 - 02

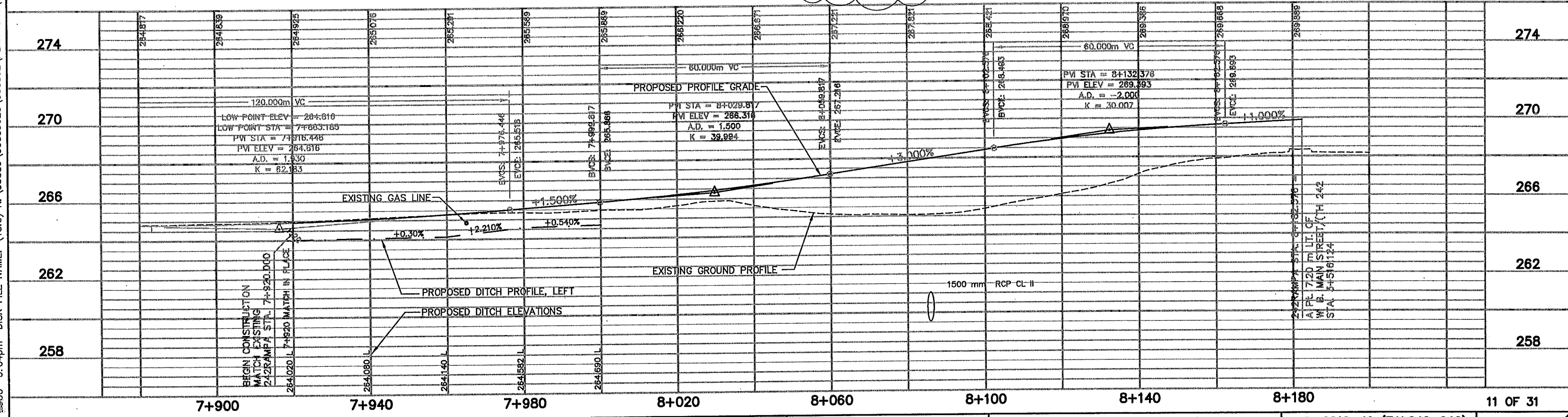
SHEET NO.
188

539

APBOX
42MHETO
42E_DRN
42-EUT
42E-SUP
42FDDOF
47
42
42E-ALI
42-ESUM



PLOT DATE: Dec 04, 2000 6:04pm DISK FILE NAME: (15.0) R:\33889\33889028\PLAN-SHT\2-zedrt12.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	12/30/99	MOVED FES 96
2	JUL	12/4/00	MOD. REQ. #70: ADDED STORM SEWER NEAR BRIDGE
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DESIGN BY: JUL
DRAWN BY: PJM/IKR	DWG. NAME: 242EDR12
CHECKED BY: PBD/KPK	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

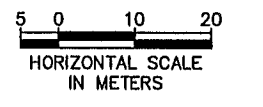
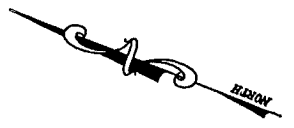
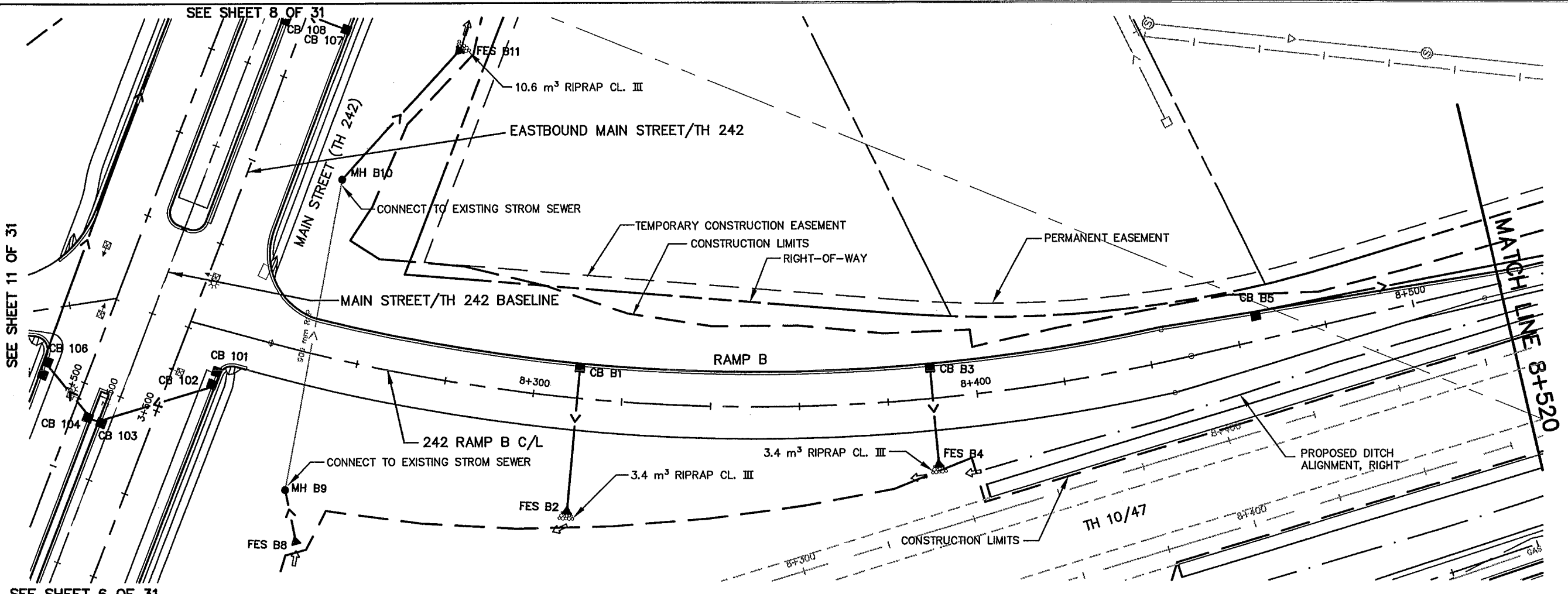
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP A
DRAINAGE PLAN AND PROFILE
STATION 7+920.000 TO STATION 8+181.683

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.P. 114 - 020 - 19	S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02	

SHEET NO.
189
539

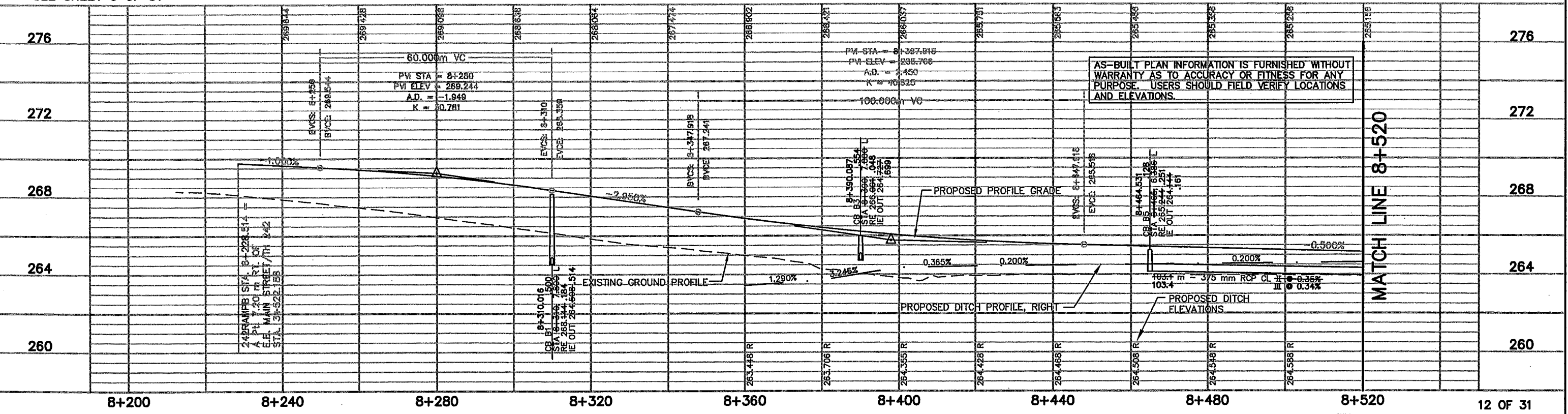
1PBOX
 12MHETO
 12E_DRN
 12-PUT
 12-EUT
 12E-PLN
 12F
 12
 12L
 12-ESUM



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

PLOT DATE: Mar 01 9:47am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh...+2edr13.dwg



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:
 JLL/BDB
 CHKED. BY:
 PBD/KPK
 DWG. NAME:
 242EDR13
 DATE:
 NOVEMBER 5, 1999



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 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

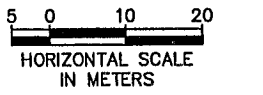
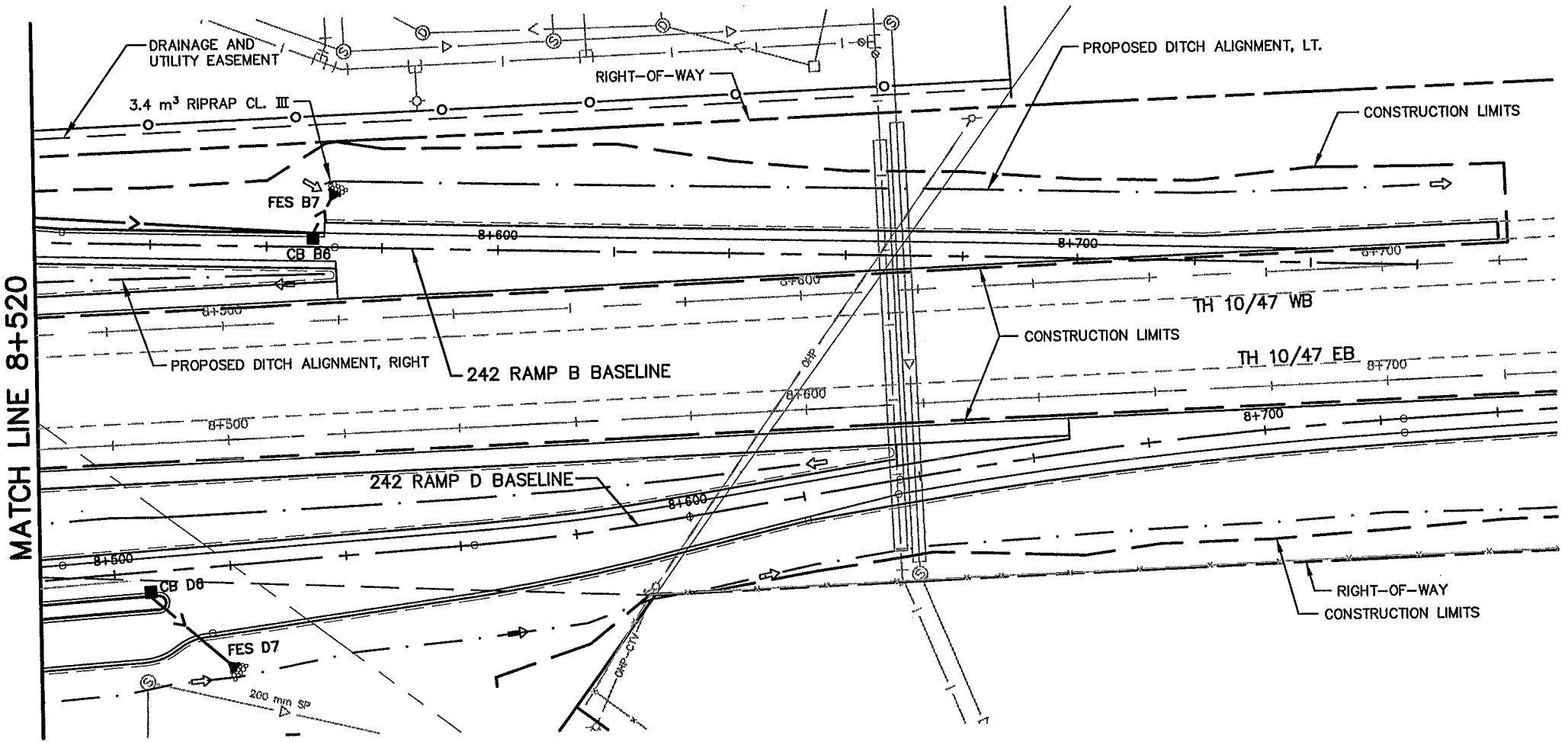
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Kevin P. Kuhl
 DATE: 11/5/99 MINN. REG. NO. 23211

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

VPBOX
 12E_DRN
 12MHETO
 12-EUT
 12EPROF
 12E-PLN
 12F
 12-M



STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
 MANHOLES - ELK RIVER CONCRETE PRODUCTS

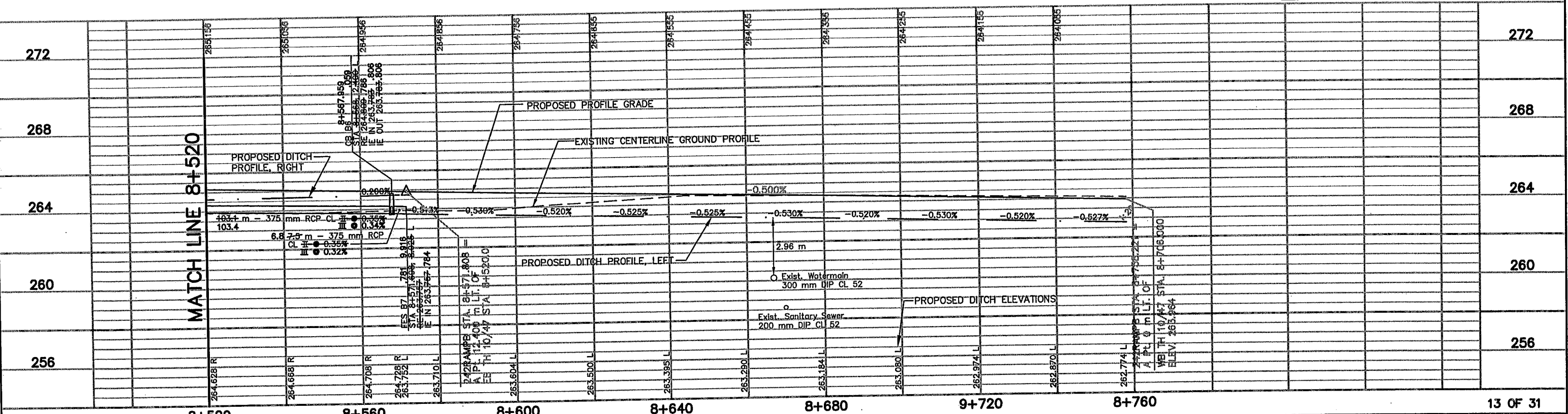
NOTE:
 STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

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MATCH LINE 8+520

SEE SHEET 18 OF 31

PLOT DATE: Jan 04 4:02pm J00 4:02pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh-2edr14.dwg



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

DESIGN FILE:
 33889028
 DRAWN BY:
 PJM/IKR
 DESIGN BY:
 JUL/BDP
 CHKED. BY:
 PBD/KPK
 DWG. NAME:
 242EDR14
 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. Kiehl
 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

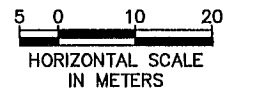
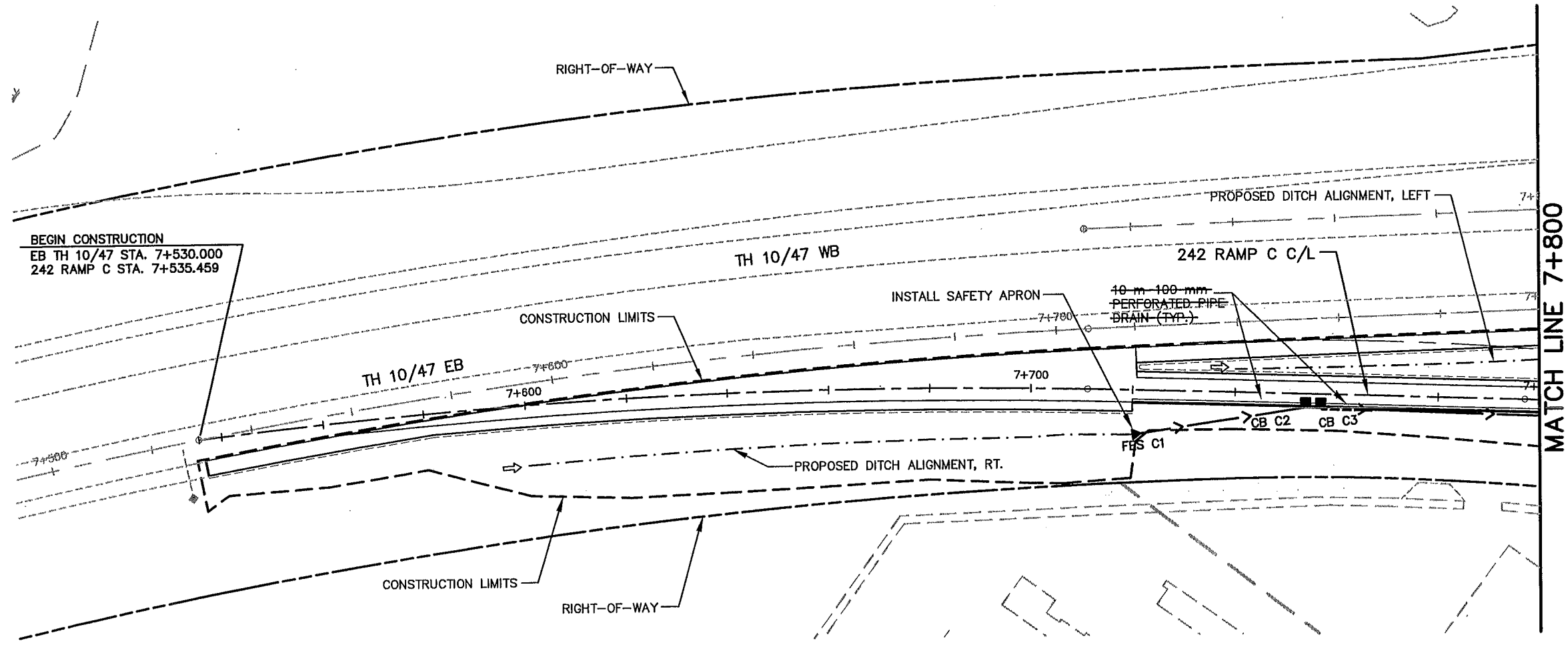
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	191
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PBOX
 TCHAL1
 2W-MEL
 2-PUT
 2E_DRN
 2MHFTO
 2-
 2L
 2E-LLM
 2EPROF
 2E-AL1
 2-ESUM

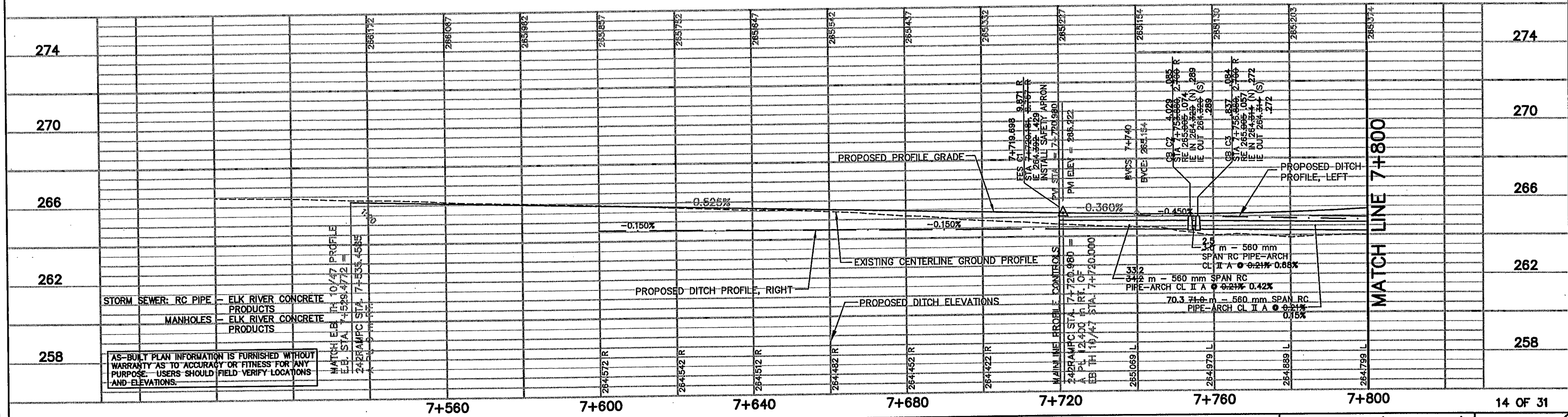
adr15.dwg

7:14am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH

PLOT DATE: Apr 12



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	REMOVED REFERENCE TO S.P. No. 8 FOR RAMP C ADDED SAFETY APRON TO FES C1
2	JUL	3/08/00	MOVED CB C3, REVISED IE CB C3.
3	JUL	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: JUL/BDB
CHCKD. BY: PBD/KPK	DWG. NAME: 242EDR15	DATE: NOVEMBER 5, 1999

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 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

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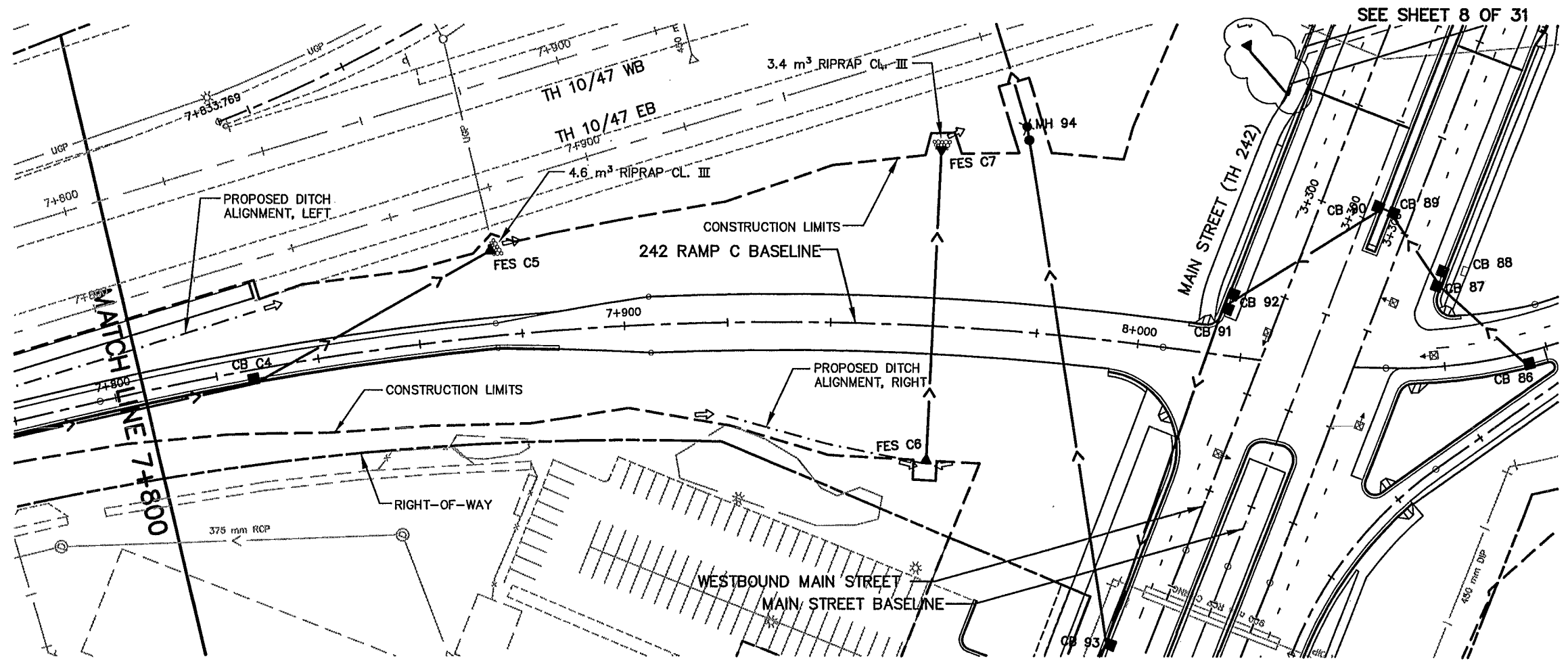
 DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
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)	SHEET NO.
S.A.P. 02 - 614 - 19	192
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

14 OF 31

1PBOX
 12PLNW
 12E_DRN
 12MHETO
 12-EUT
 12CLM-W
 12F
 12
 12E-ALI
 12-ESUM

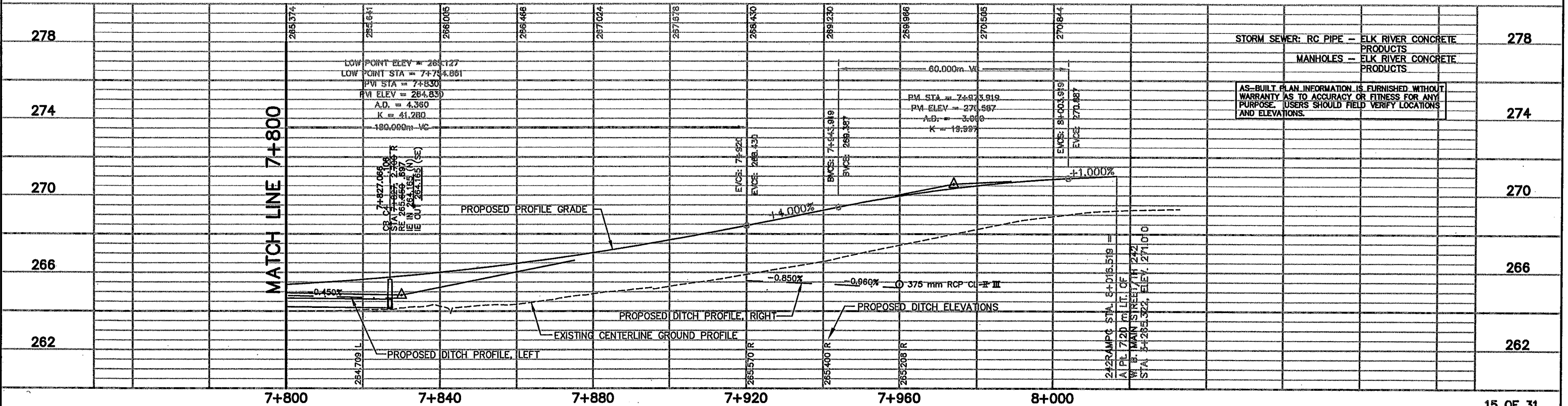


SEE SHEET 8 OF 31
 SEE SHEET 16 OF 31

NOTE:
 STORM SEWER STRUCTURE
 OFFSET DISTANCES SHOWN
 ARE BASED UPON THE
 BASELINE ALIGNMENT AND
 ARE TO THE BACK OF
 CURB.

SEE SHEET 6 OF 31

PLOT DATE: Dec 000 11:05am DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SH\2edr16.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	3/06/00	REVISED IE CB C4
2	JUL	7/6/00	MOD. REQ. #36: REVISED MENARDS, REMOVED WALL
3	JUL	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:
 JUL/DBD
 CHKD. BY:
 PBO/KPK
 DWG. NAME:
 242EDR16
 DATE:
 NOVEMBER 5, 1999



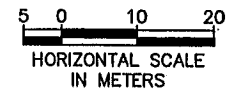
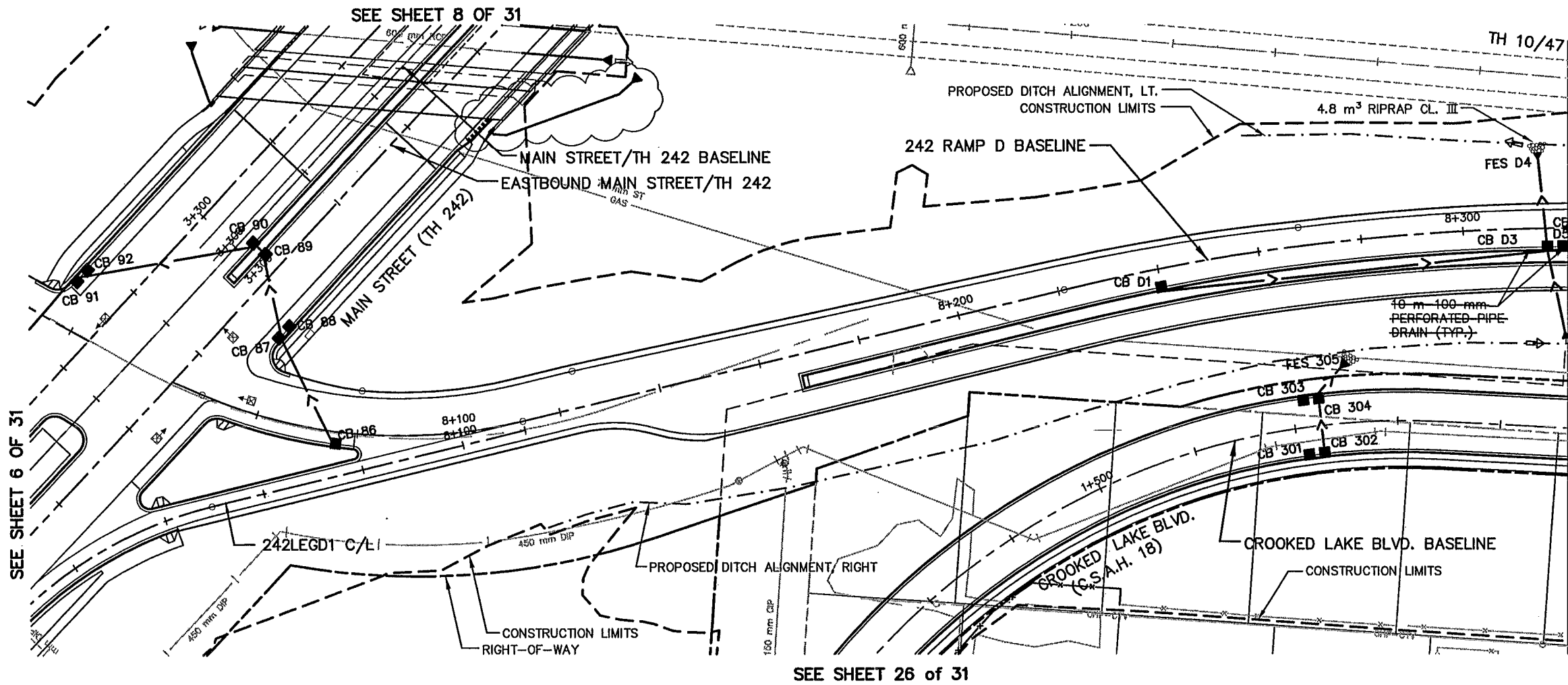
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Kevin P. Kiehl
 DATE: 11/5/99 MINN. REG. NO. 23211

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

15 OF 31
 SHEET NO.
 193
 539

- 42CLM-W
- 42E-CLM
- APBOX
- 42-PUT
- 42-ALI W
- 42PLNW
- 42F
- 42
- 42E-SUP
- 42EPROF
- 42E-PLN
- 42E-ALI
- 42-ESUM

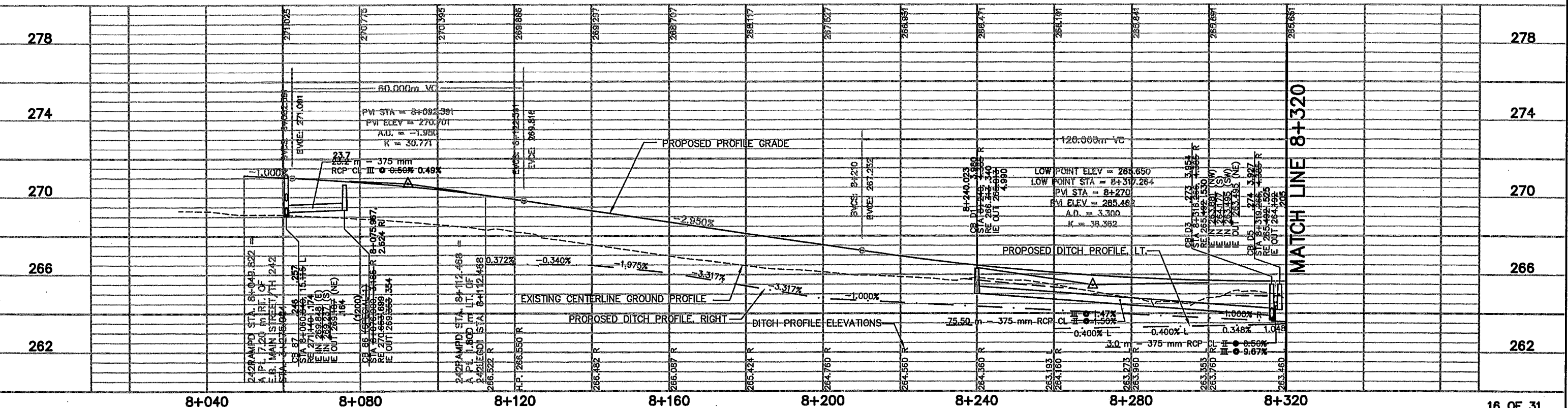


STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
 MANHOLES - ELK RIVER CONCRETE PRODUCTS

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NOTE:
 STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

SEE SHEET 26 of 31



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLL	3/06/00	MOVED CB D5, REVISED IE CB D3.
2	JLL	4/06/00	MOD. REQ. #8: MOVED FES D4
3	JLL	4/12/00	MOD. REQ. #9: REV. LT. D.G. 8+240-8+340, REV. IE CB D3
4	JLL	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:
 JLL/BDB

CHKD. BY:
 PBD/KPK

DWG. NAME:
 242EDR17

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. Kullb

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)

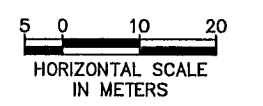
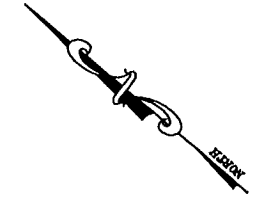
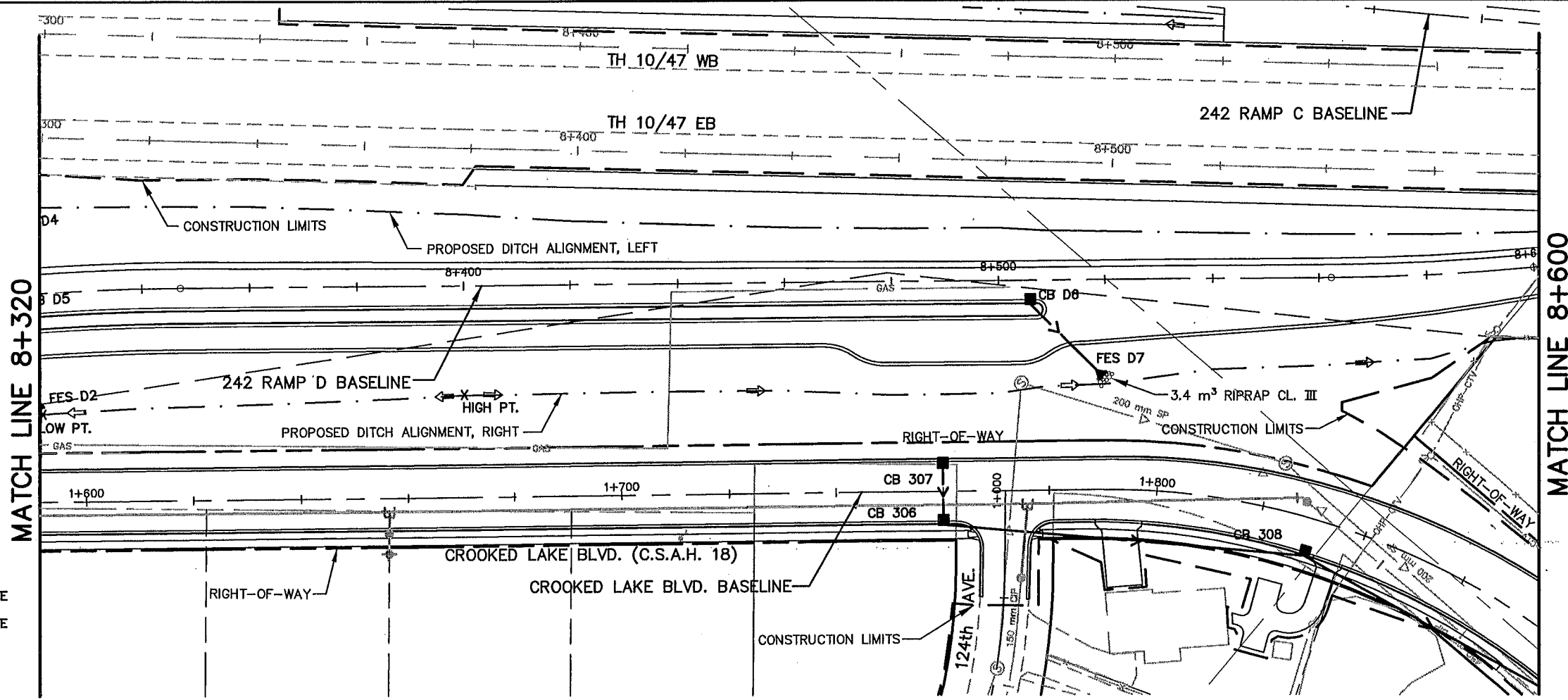
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
194

539

PLOT DATE: Dec 2000 9:56am DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-Str-42edr17.dwg

42CLM-W
 APBOX
 42-PUT
 42-AL1W
 42E_DRN
 42PLNW
 42M...TO
 42L
 42E-CLM
 42EPROF
 42E-AL1
 42-ESUM



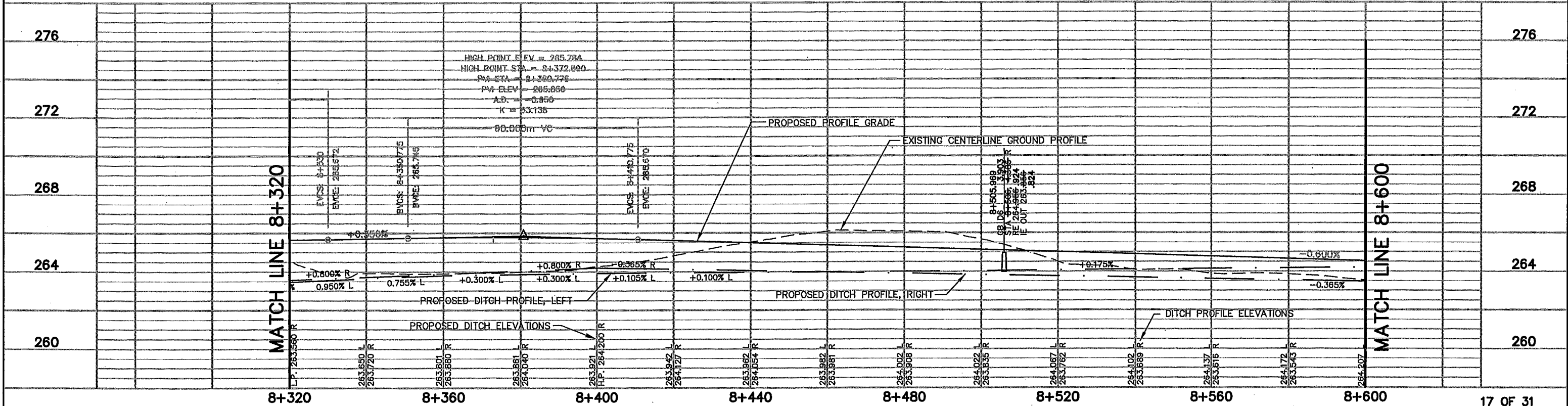
NOTE:
 STORM SEWER STRUCTURE
 OFFSET DISTANCES SHOWN
 ARE BASED UPON THE
 BASELINE ALIGNMENT AND
 ARE TO THE BACK OF
 CURB.

STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
 MANHOLES - ELK RIVER CONCRETE PRODUCTS

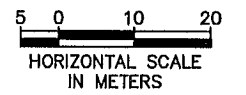
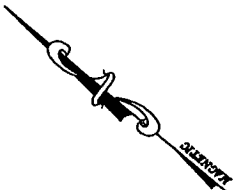
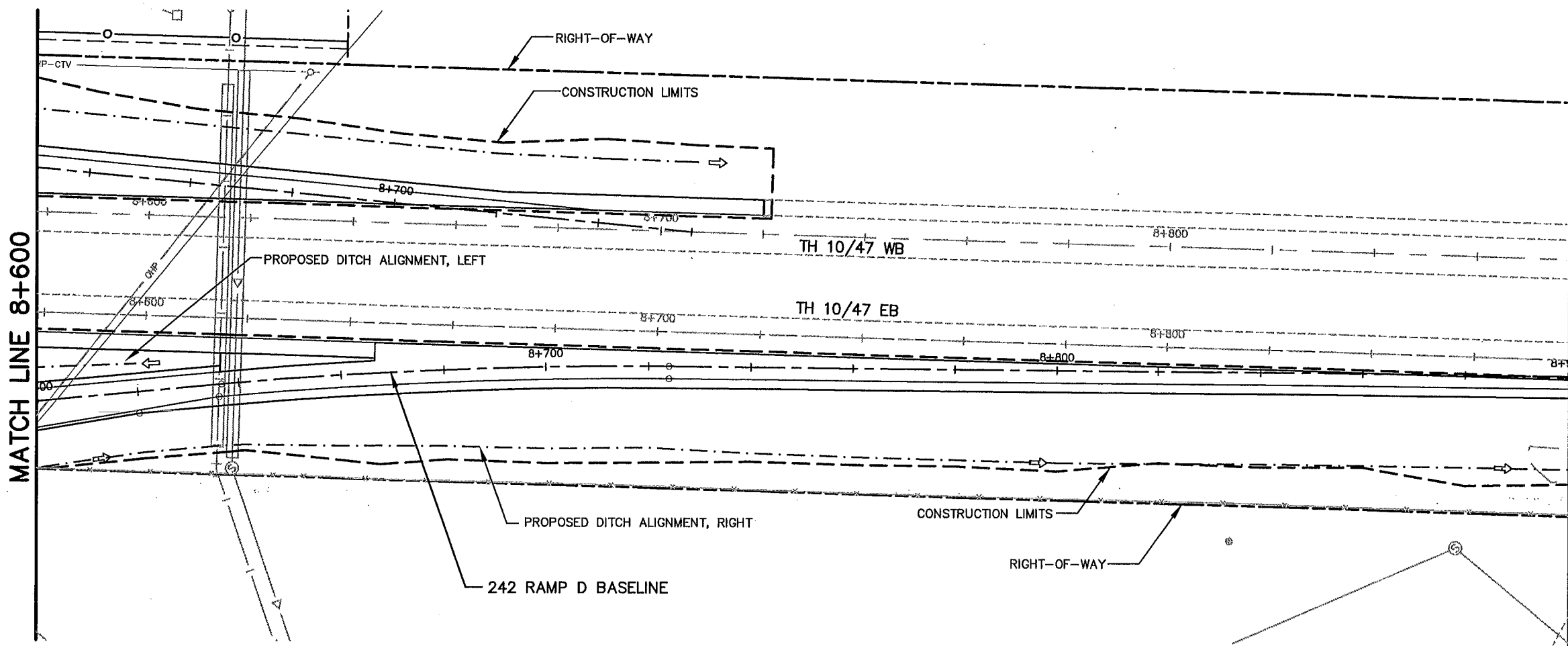
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SEE SHEET 28 OF 31

PLOT DATE: Apr 1 2000 7:42am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH-242edr18.dwg



<table border="1"> <tr> <th>REV. NO.</th> <th>BY</th> <th>DATE</th> <th>REVISIONS DESCRIPTION</th> </tr> <tr> <td>1</td> <td>IKR</td> <td>12/30/99</td> <td>ADJUSTED LEADERS FOR LIMITS & R/W</td> </tr> <tr> <td>2</td> <td>JLL</td> <td>4/12/00</td> <td>ADDED RAMP D PATROL PAD, MOVED FES D7</td> </tr> <tr> <td>3</td> <td>TSR</td> <td>2/27/04</td> <td>MOD. REQ. #9: REV. LT. D.G. 8+240-8+340 FOR FES D4 AS-BUILT DRAWING</td> </tr> </table>	REV. NO.	BY	DATE	REVISIONS DESCRIPTION	1	IKR	12/30/99	ADJUSTED LEADERS FOR LIMITS & R/W	2	JLL	4/12/00	ADDED RAMP D PATROL PAD, MOVED FES D7	3	TSR	2/27/04	MOD. REQ. #9: REV. LT. D.G. 8+240-8+340 FOR FES D4 AS-BUILT DRAWING	DESIGN FILE: 33889028 DRAWN BY: PJM/IKR DESIGN BY: JLL/BDB CHKD. BY: PBD/KPK DWG. NAME: 242EDR18 DATE: NOVEMBER 5, 1999	<p>ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.</p>	<p>THRESHER SQUARE 700 THIRD STREET SOUTH MINNEAPOLIS, MN 55415 (612)370-0700 (TEL) (612)370-1378 (FAX)</p> <p>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</p> <p><i>Kevin P. Kuhl</i> DATE: 11/5/99 MINN. REG. NO. 23211</p>	<p>MAIN STREET/T.H. 242 RECONSTRUCTION 242 RAMP D DRAINAGE PLAN AND PROFILE STATION 8+320.000 TO STATION 8+600.000</p> <p>CITY PROJECT 98-20</p>	<p>S.P. 0212-40 (T.H.242=242)</p> <table border="1"> <tr> <td>S.A.P.</td> <td>02 - 614 - 19</td> </tr> <tr> <td>S.A.P.</td> <td>02 - 618 - 24</td> </tr> <tr> <td>S.P.</td> <td>114 - 010 - 11</td> </tr> <tr> <td>S.A.P.</td> <td>114 - 020 - 19</td> </tr> <tr> <td>S.A.P.</td> <td>114 - 136 - 02</td> </tr> <tr> <td>S.A.P.</td> <td>114 - 127 - 02</td> </tr> </table>	S.A.P.	02 - 614 - 19	S.A.P.	02 - 618 - 24	S.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
REV. NO.	BY	DATE	REVISIONS DESCRIPTION																															
1	IKR	12/30/99	ADJUSTED LEADERS FOR LIMITS & R/W																															
2	JLL	4/12/00	ADDED RAMP D PATROL PAD, MOVED FES D7																															
3	TSR	2/27/04	MOD. REQ. #9: REV. LT. D.G. 8+240-8+340 FOR FES D4 AS-BUILT DRAWING																															
S.A.P.	02 - 614 - 19																																	
S.A.P.	02 - 618 - 24																																	
S.P.	114 - 010 - 11																																	
S.A.P.	114 - 020 - 19																																	
S.A.P.	114 - 136 - 02																																	
S.A.P.	114 - 127 - 02																																	

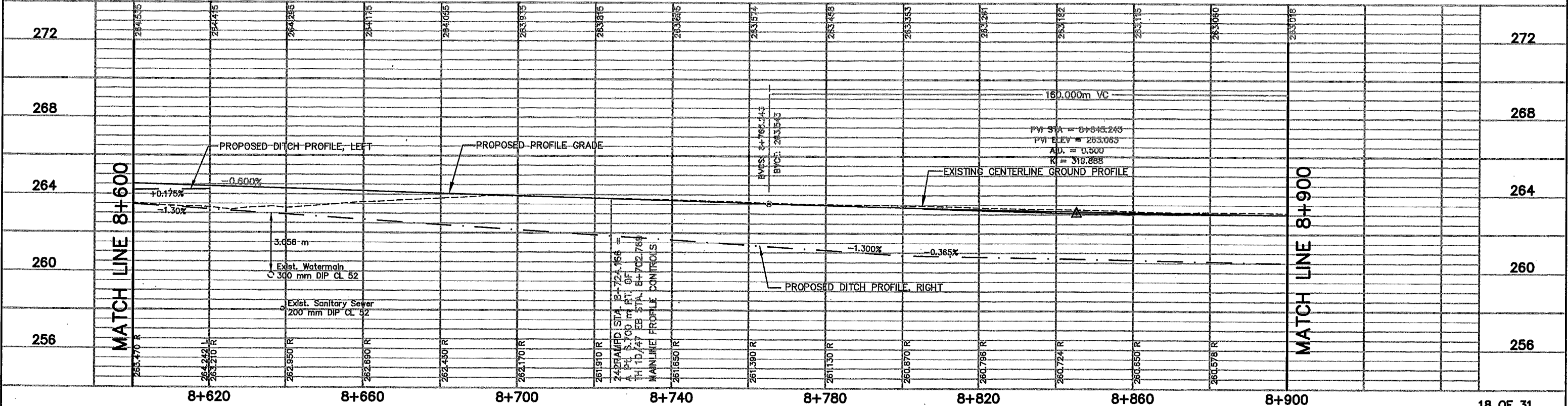


STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
 MANHOLES - ELK RIVER CONCRETE PRODUCTS

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

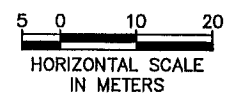
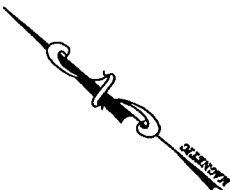
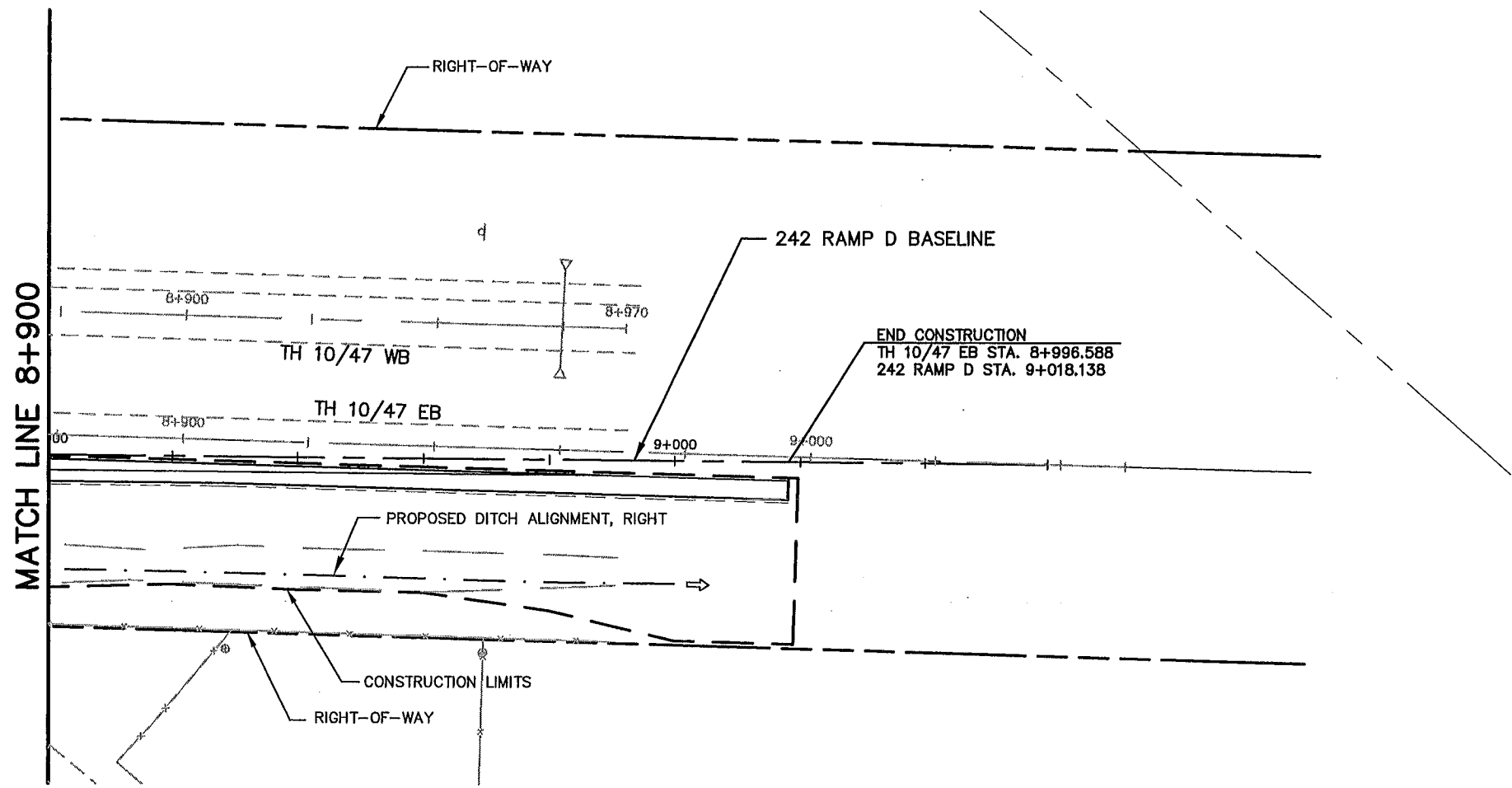
NOTE:
 STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

PLOT DATE: Jan 05 4:23pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Sh-42edr19.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION	DESIGN FILE:			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 326.10 <i>Kevin P. Kuhl</i> 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
1	TSR	2/27/04	AS-BUILT DRAWING	33889028							
				DRAWN BY: PJM/IKR DESIGN BY: JJJ CHKD. BY: PBD/KPK DWG. NAME: 242EDR19 DATE: NOVEMBER 5, 1999	ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.		A DAMES & MOORE GROUP COMPANY				

REF DRAWINGS
 APBOX
 42E_DRN
 42PLNW
 42MHETO
 42-EUT
 42E-SUP
 42E-PLAN
 42
 42
 42E-ALI
 42-ESUM

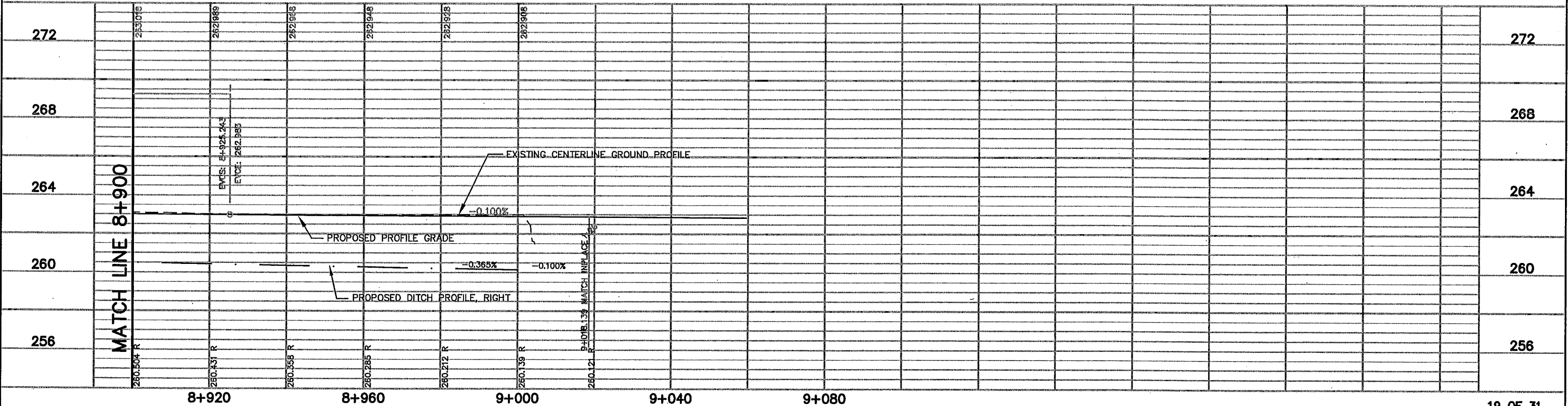


STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
 MANHOLES - ELK RIVER CONCRETE PRODUCTS

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.

PLOT DATE: Jan 05 4:31pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-Str-42edr20.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REMOVED REFERENCE TO S.P. No. 8 FOR RAMP D
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
 33889028
 DRAWN BY:
 PJM
 DESIGN BY:
 JUL
 CHKD. BY:
 PBD/KPK
 DWG. NAME:
 242EDR20
 DATE:
 NOVEMBER 5, 1999



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

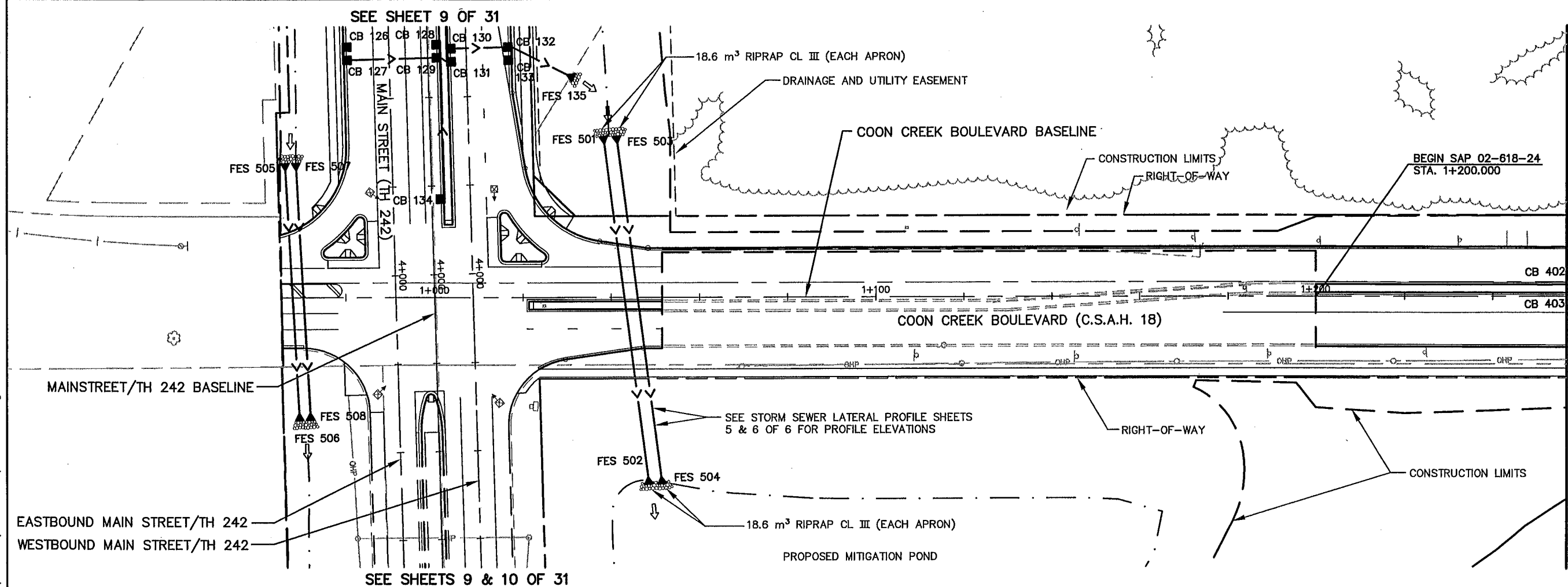
MAIN STREET/T.H. 242 RECONSTRUCTION
 242 RAMP D MERGE AREA
 DRAINAGE PLAN AND PROFILE
 STATION 8+900.000 TO STATION 9+018.139
 CITY PROJECT 98-20

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

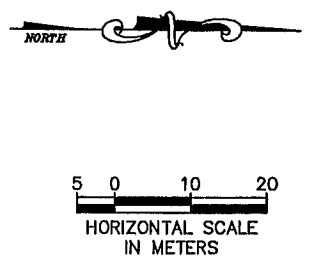
SHEET NO.
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 539

1TPOND2
APBOX
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42E-CLM
42-ALI W
00NPRF1
42E-PLN
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42-
42-
42-EUT

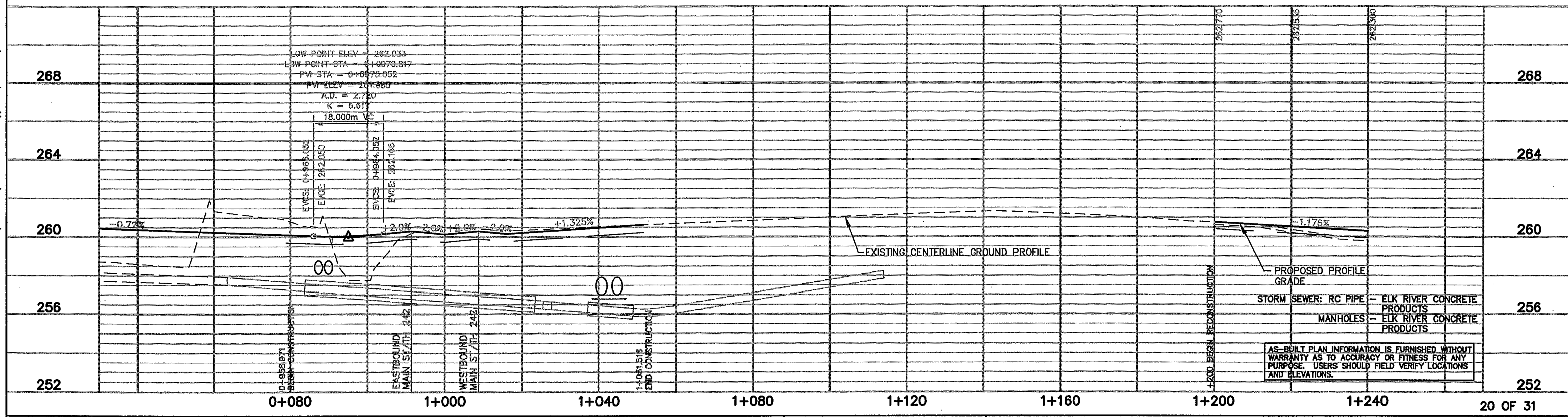
PLOT DATE: Jul 11, 2000 9:29am DISK FILE NAME: (14.01h (Hardware Lock)) R: \33889\33889026\PLAN-SHT\CoonDR01.dwg



MATCH LINE 1+240



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 RIPRAP TO FES 501 & 503
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
 DRAWN BY: PMJ
 DESIGN BY: JLL/BDB
 CHKD. 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)

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Kevin P. Kiehl
 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.	T.H. 242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

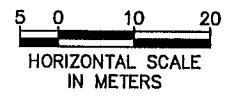
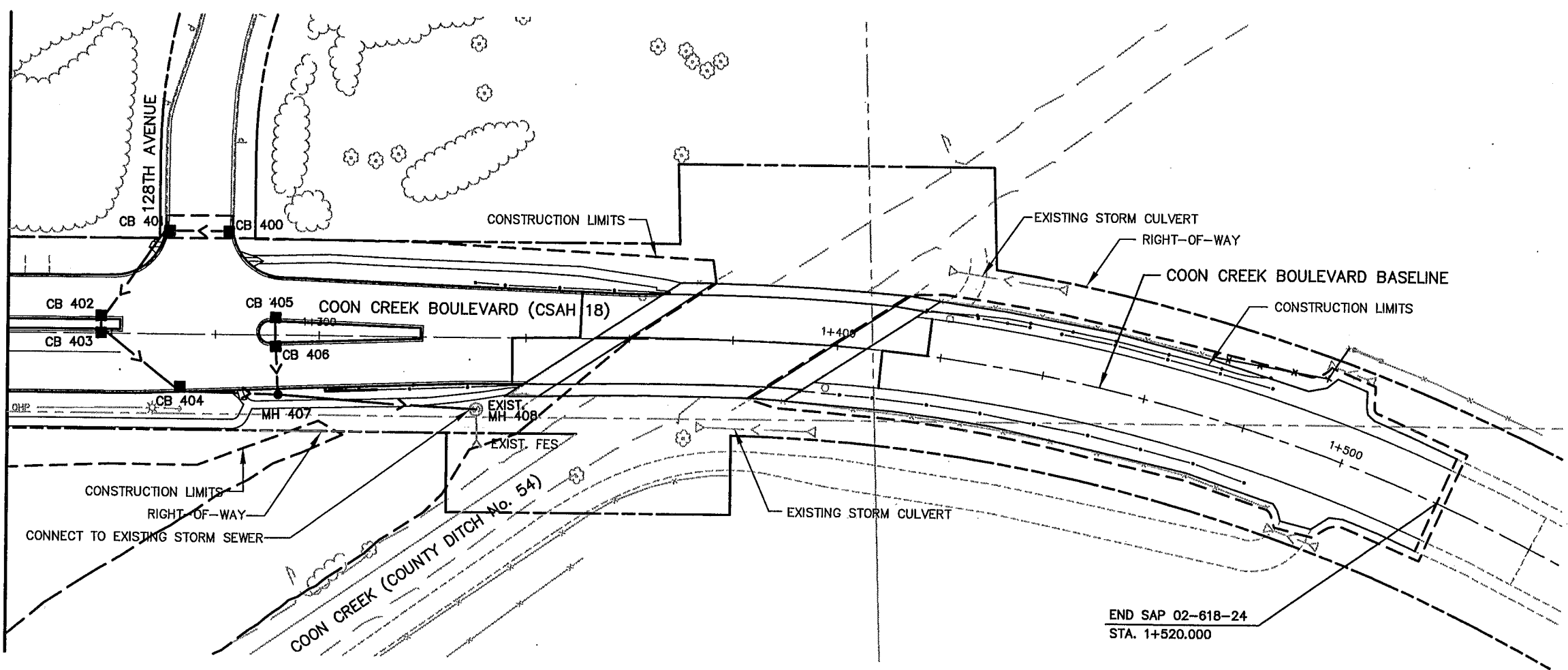
SHEET NO.
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539

APBOX
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42E-CLM
42E-DRN
42E-ALI
00NPRF1
42-FSUM
42
41
42-LUT

PLOT DATE: May 00 10:36am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-5\oonDR02.dwg

MATCH LINE 1+240

MATCH LINE 1+240

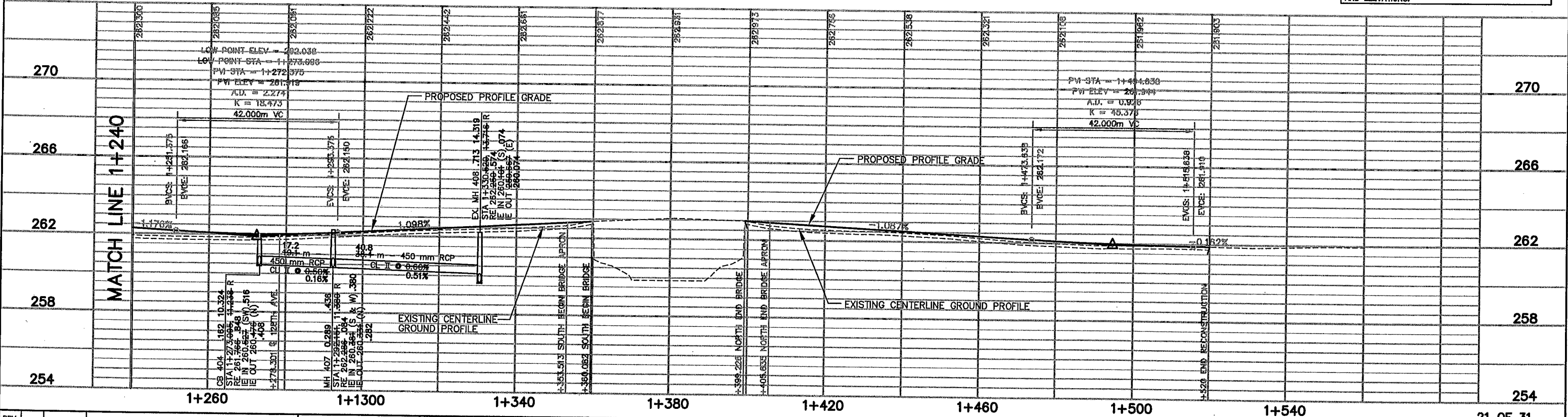


STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
MANHOLES - ELK RIVER CONCRETE PRODUCTS

NOTE:
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END SAP 02-618-24
STA. 1+520.000



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	JL	5/15/00	MOD. REQ. #28: MOVED CB 404
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
PMJ/IKR
DESIGN BY:
JUL
CHKD. BY:
PBD/CPK
DWG. NAME:
COONDRO2
DATE:
NOVEMBER 5, 1999



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



THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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

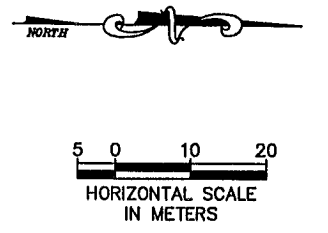
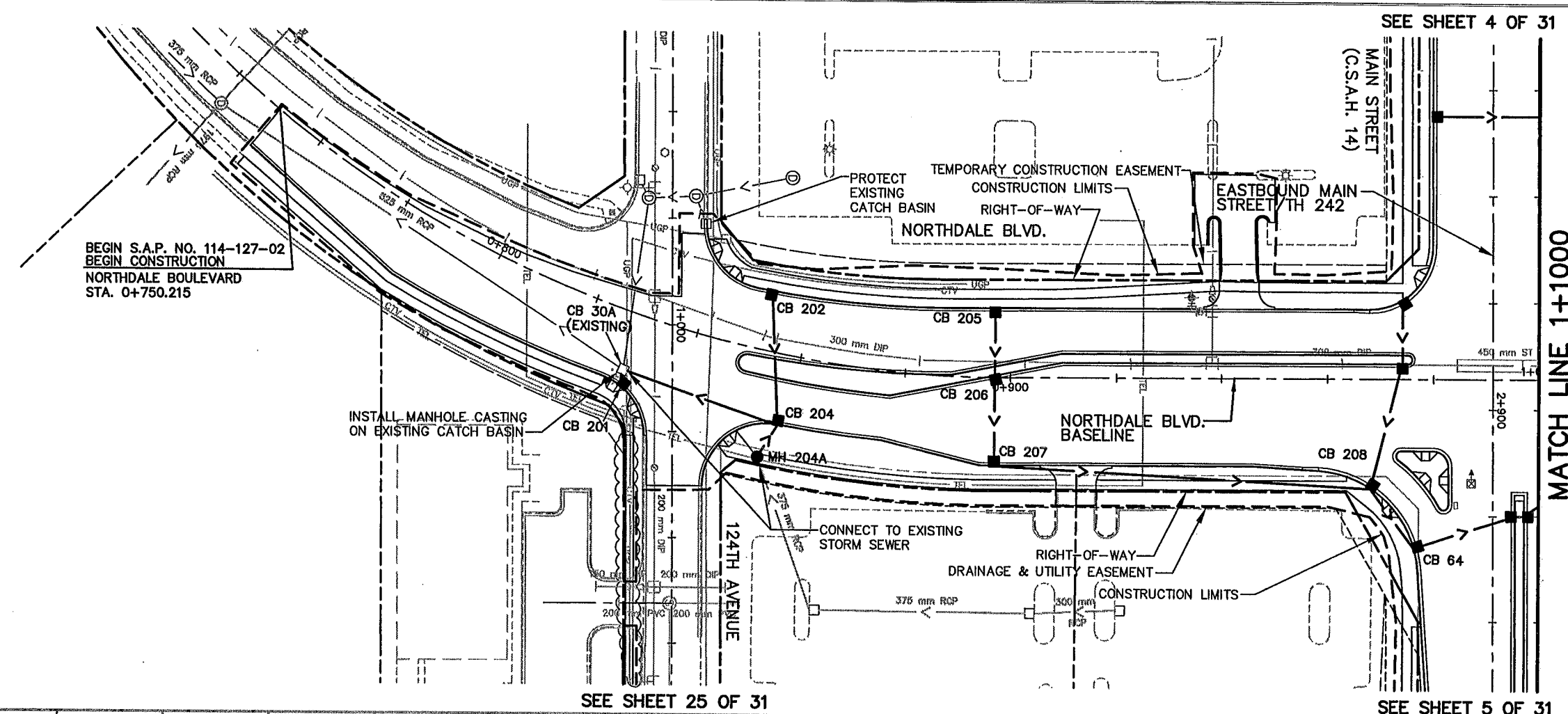
MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
DRAINAGE PLAN AND PROFILE
STATION 1+240.000 TO STATION 1+520.000

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

PBOX
2CLM-W
2-PUT
ALEPRF
2PLNW
2-ESUM
2-
2N
2-L

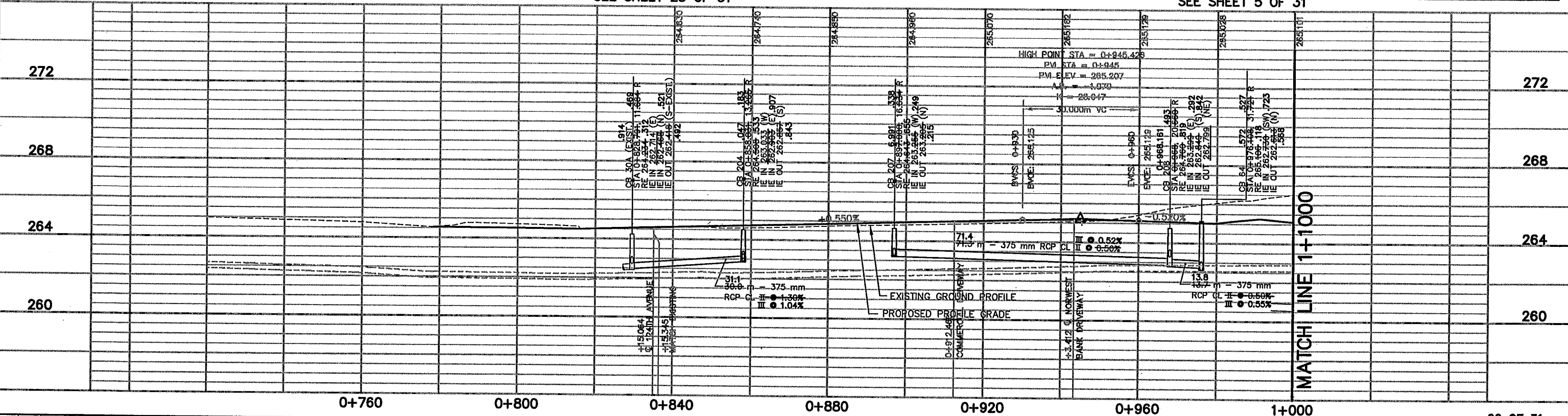


STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
MANHOLES - ELK RIVER CONCRETE PRODUCTS

NOTE:
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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.

PLOT DATE: Dec 16 04 8:56am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sht_04.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED S.A.P. No. & BEGIN STA. FOR NORTHDAL BLVD. CLARIFIED NOTE CONNECT TO EXISTING CB 30A
2	JUL	6/01/00	MOD.REQ.#27: MOVED CB208, DELETED CB203
3	JUL	8/09/00	MOD.REQ.#58: 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: JJJ/BDB

CHKD. BY: PBD/KPK
DWG. NAME: DALEDRO1

DATE:
NOVEMBER 5, 1999



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

MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDAL BOULEVARD N.W.
DRAINAGE PLAN AND PROFILE
STATION 0+760.000 TO STATION 1+000.000

CITY PROJECT 98-20

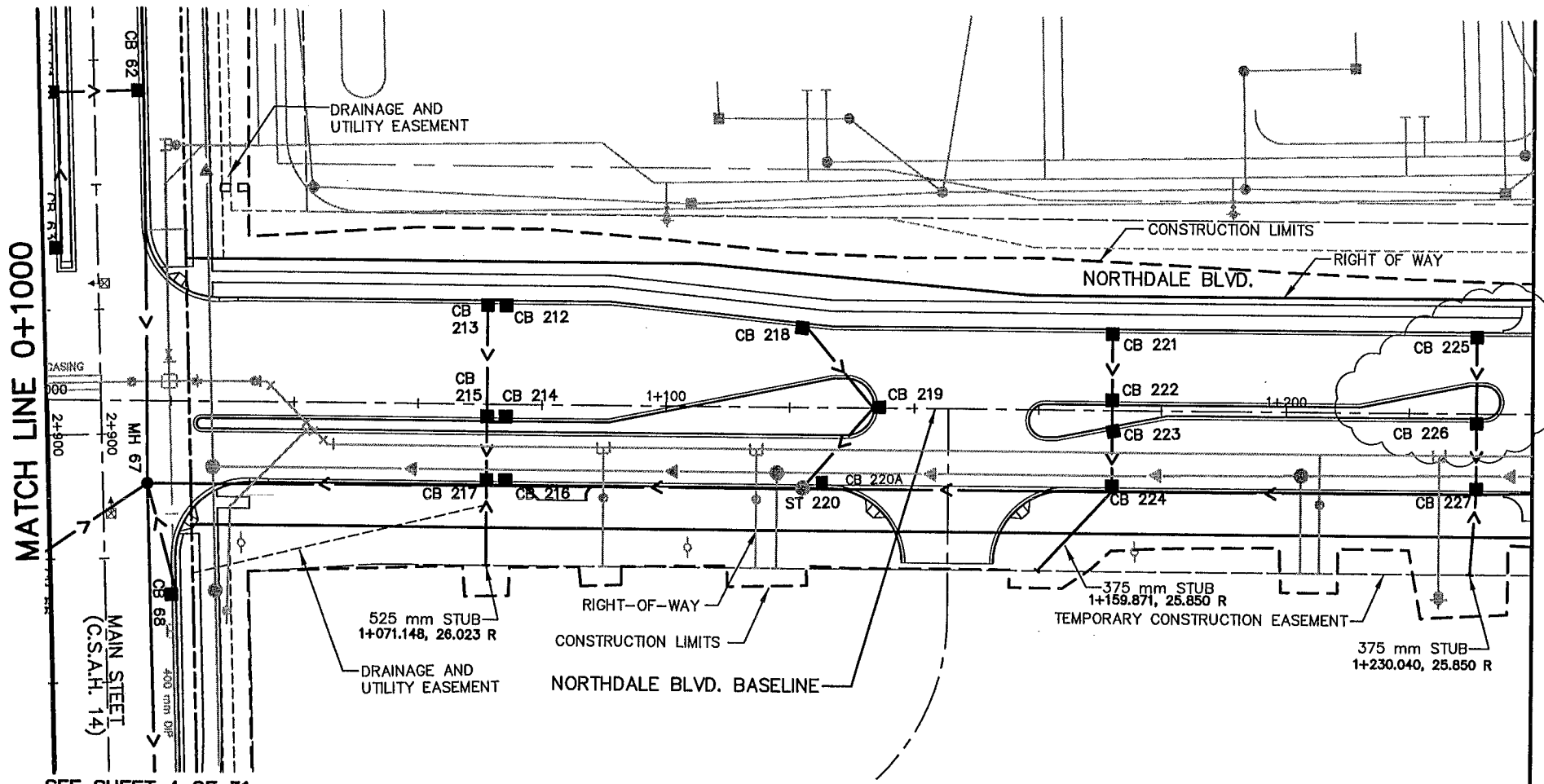
S.P. 0212-40 (T.H.242=242)

S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.A.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

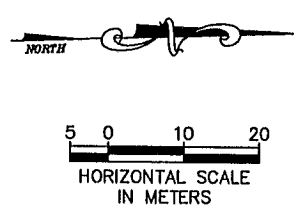
22 OF 31 SHEET NO.
200
539

PBOX
86UTIL
2CLM-W
2-PUT
2-ALIW
ALEPRF
86°
2F
2-
2MHETO
2-EUT

SEE SHEET 3 OF 31



SEE SHEET 4 OF 31

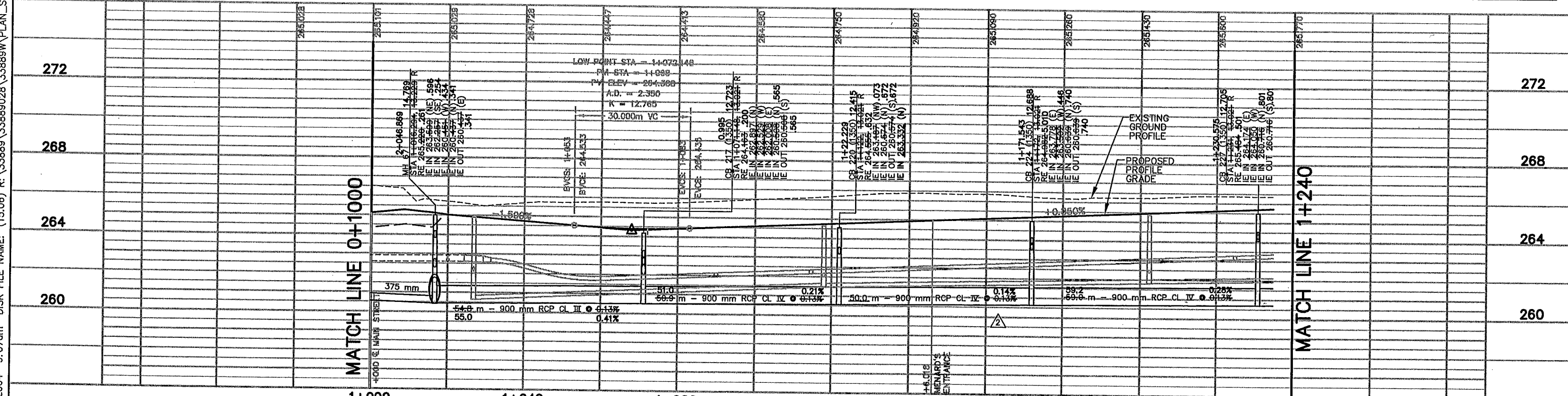


STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
MANHOLES - ELK RIVER CONCRETE PRODUCTS

NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

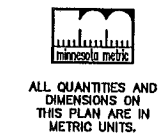
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

PLOT DATE: Aug 1 9:07am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sht\CRING\DAledr02.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLL	2/18/00	ADDEND Δ DELETED TEXT RELATED TO STEEL CASING.
2	JLL	3/20/00	MOVED MH 67
3	JLL	4/17/00	MOD. REQ. #10: MOD. IE FOR MH 67, ADD IE FOR MH 217
4	JLL	5/25/00	MOD. REQ. #10B: ADDED STUB FROM CB 224, MODIFIED STUBS FROM CB 217 & CB 227
5	JLL	6/12/00	MOD. REQ. #10C: REVISED STUB LOCATION
6	JLL	8/09/00	MOD. REQ. #58: REMOVED WALK 1+032.614-1+288.0 RT
7	PMJ	9/28/00	MOD. REQ. #68: REVISED MEDIAN, ADDED DRIVE ENTRANCE
8	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
DRAWN BY: PMJ
DESIGN BY: JLL/BDB
CHKD. BY: PBD/KPK
DWG. NAME: DALEDRO2
DATE: NOVEMBER 5, 1999



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

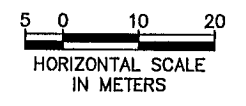
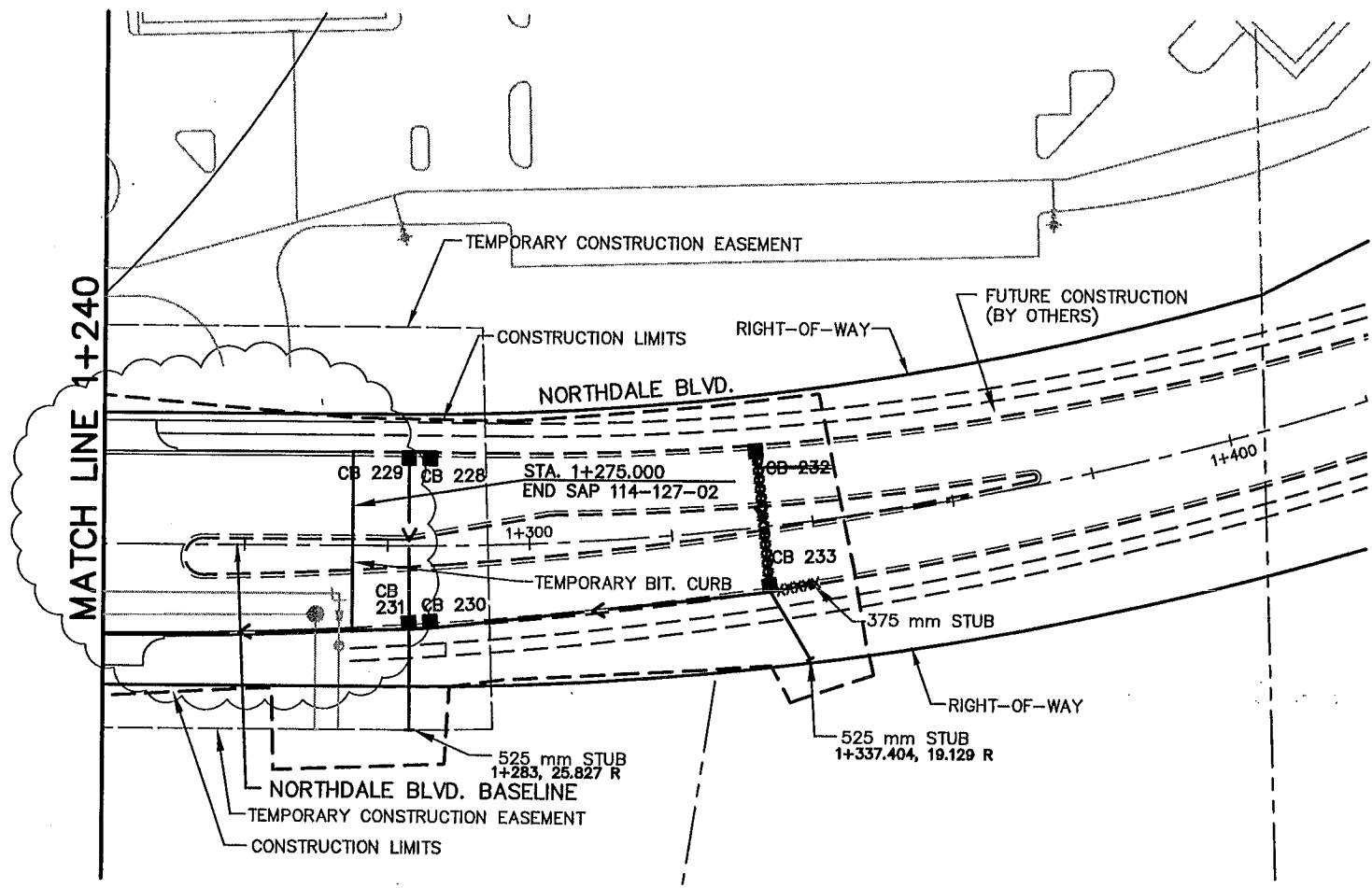
MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDAL E BOULEVARD N.W.
DRAINAGE PLAN AND PROFILE
STATION 1+000.000 TO STATION 1+240.000
CITY PROJECT 98-20

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

23 OF 31
SHEET NO. 201
539

VPBOX
186UTIL
186SITE
12-ALIW
12CLM-W
12LEPRF
12-PUT
12P
12-
12M...
12-EUT

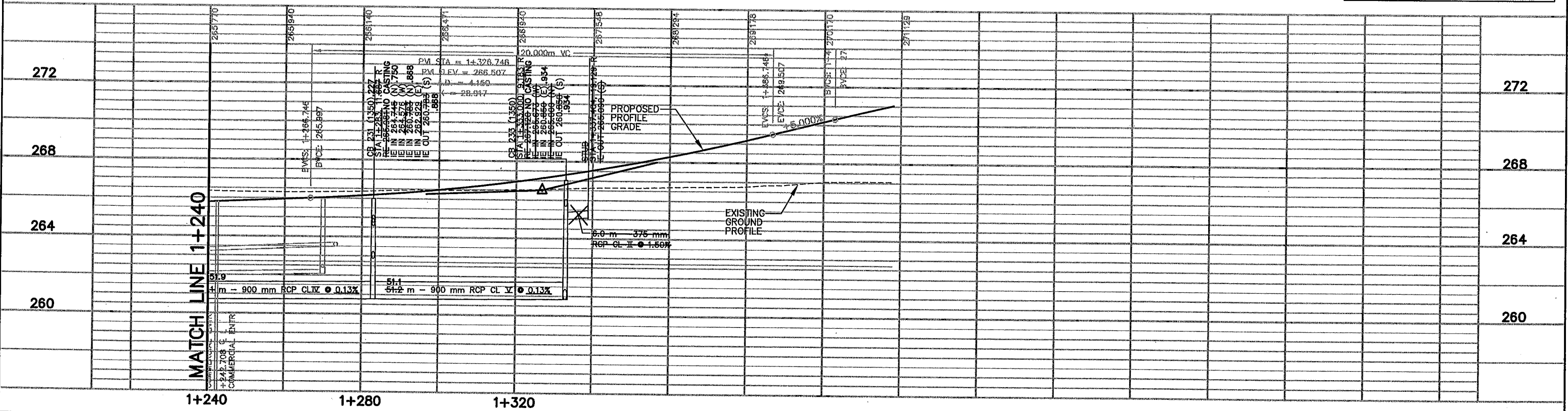
PLOT DATE: Oct 2000 6:15pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S...ENGRING\Daledr03.DWG



STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
MANHOLES - ELK RIVER CONCRETE PRODUCTS

NOTE:
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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	HKR	12/30/99	LABELLED T.C.E.
2	JLL	4/06/00	MOD. REQ. #8: MOD. LOC. OF 625 mm STUB TO CB 233
3	JLL	5/25/00	MOD. REQ. #10B: ADDED STUB TO CB 231
4	JLL	8/09/00	MOD. REQ. #58: REMOVED WALK 1+032.814-1+288.0 RT.
5	PMJ	9/29/00	MOD. REQ. #69: REVISED MEDIAN, ADDED DRIVE ENTRANCE
6	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028

DRAWN BY:
PMJ

DESIGN BY:
JLL/BDB

CHKD. BY:
PBD/KPK

DWG. NAME:
DALEDRO3

DATE:
NOVEMBER 5, 1999



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



THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P. Kullb

DATE: 11/9/99 MINN. REG. NO. 23211

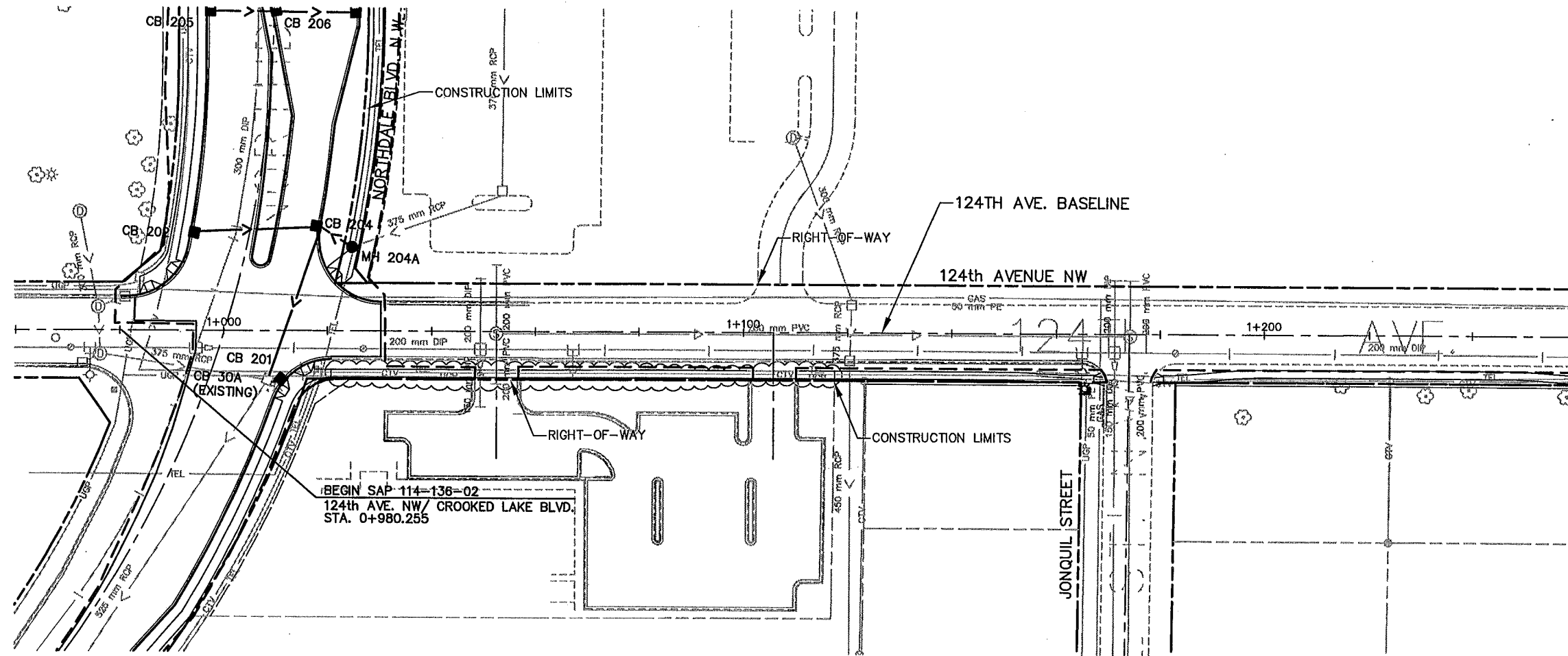
MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDALE BOULEVARD N.W.
DRAINAGE PLAN AND PROFILE
STATION 1+240.000 TO STATION 1+420.000

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

24 OF 31
SHEET NO.
202
539

42CLM-W
42E-CLM
APBOX
42-PUT
24-PRF
42PLNW
42-W
42-G
42MHETO
42-EUT



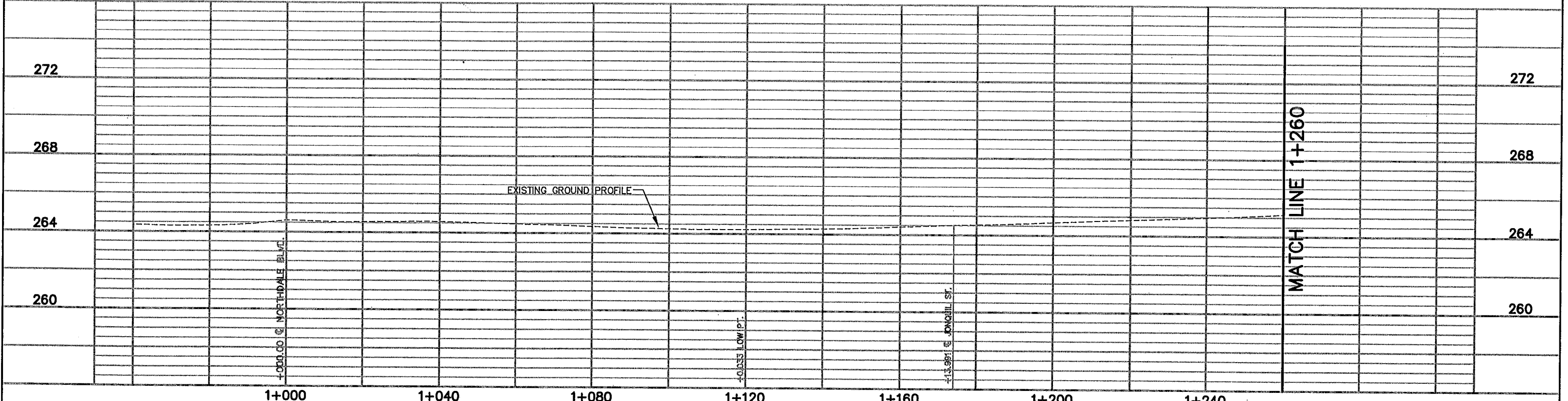
MATCH LINE 1+260

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.

PLOT DATE: Aug 00 3:46pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_Sht_3RING\124DR01.dwg



MATCH LINE 1+260

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JKR	12/30/99	CHANGED 124th BEGN STA. CHANGED SAP No.
2	JJA	8/09/00	MOD. REQ. #58: 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:
JUL/BDB

CHKD. BY:
PBD/KPK

DWG. NAME:
124DR01

DATE:
NOVEMBER 5, 1999



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. Kuelb

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)

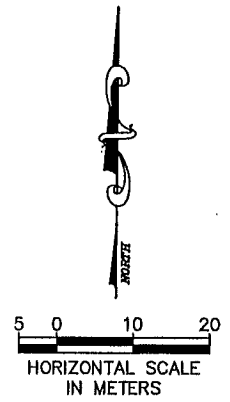
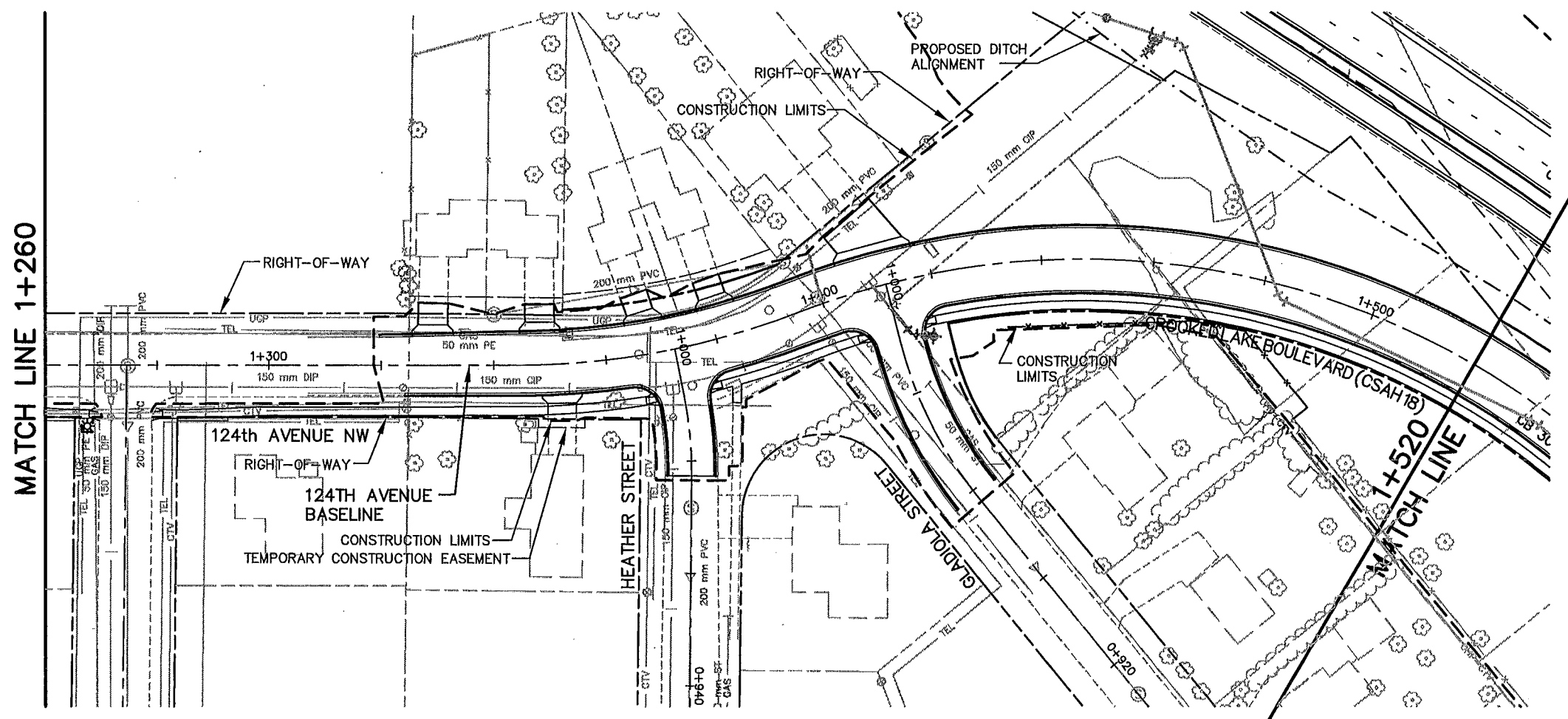
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

25 OF 31

SHEET NO.
203

539

12E_DRN
12CLM-W
12PBOX
12E-PLN
12E-TXT
12E-CLM
12-PRF
12
12
12-...W
12-ESUM
12MHVEG
12MHETO
12-EUT

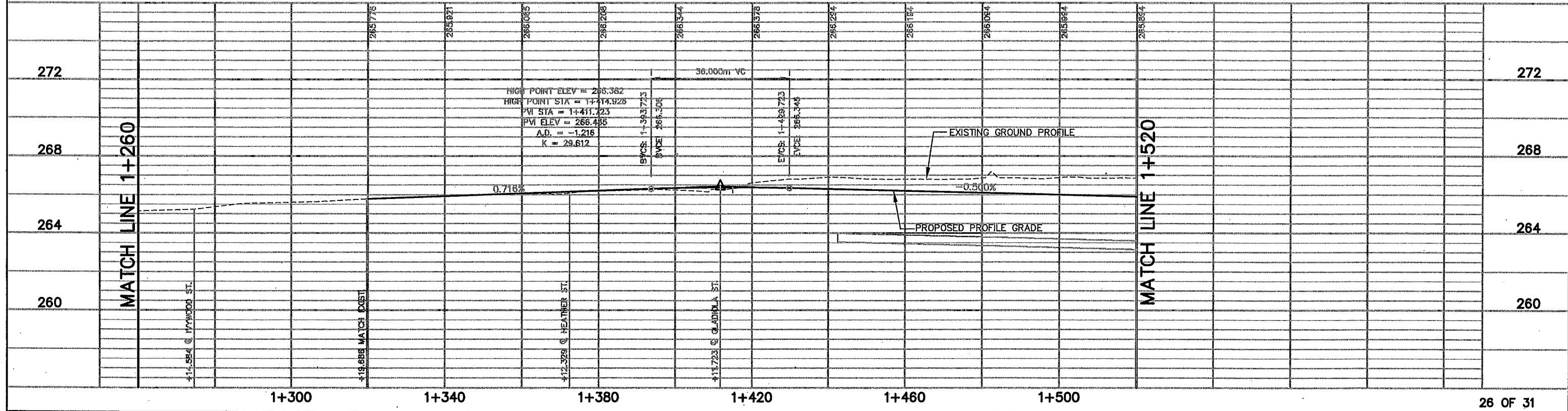


STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
MANHOLES - ELK RIVER CONCRETE PRODUCTS

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.

PLOT DATE: Apr 2004 3:02pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_ENGRING\124DR02.dwg



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: JJJ
CHKD. BY: PBD/KPK
DWG. NAME: 124DR02
DATE: NOVEMBER 5, 1999



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

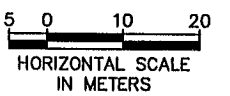
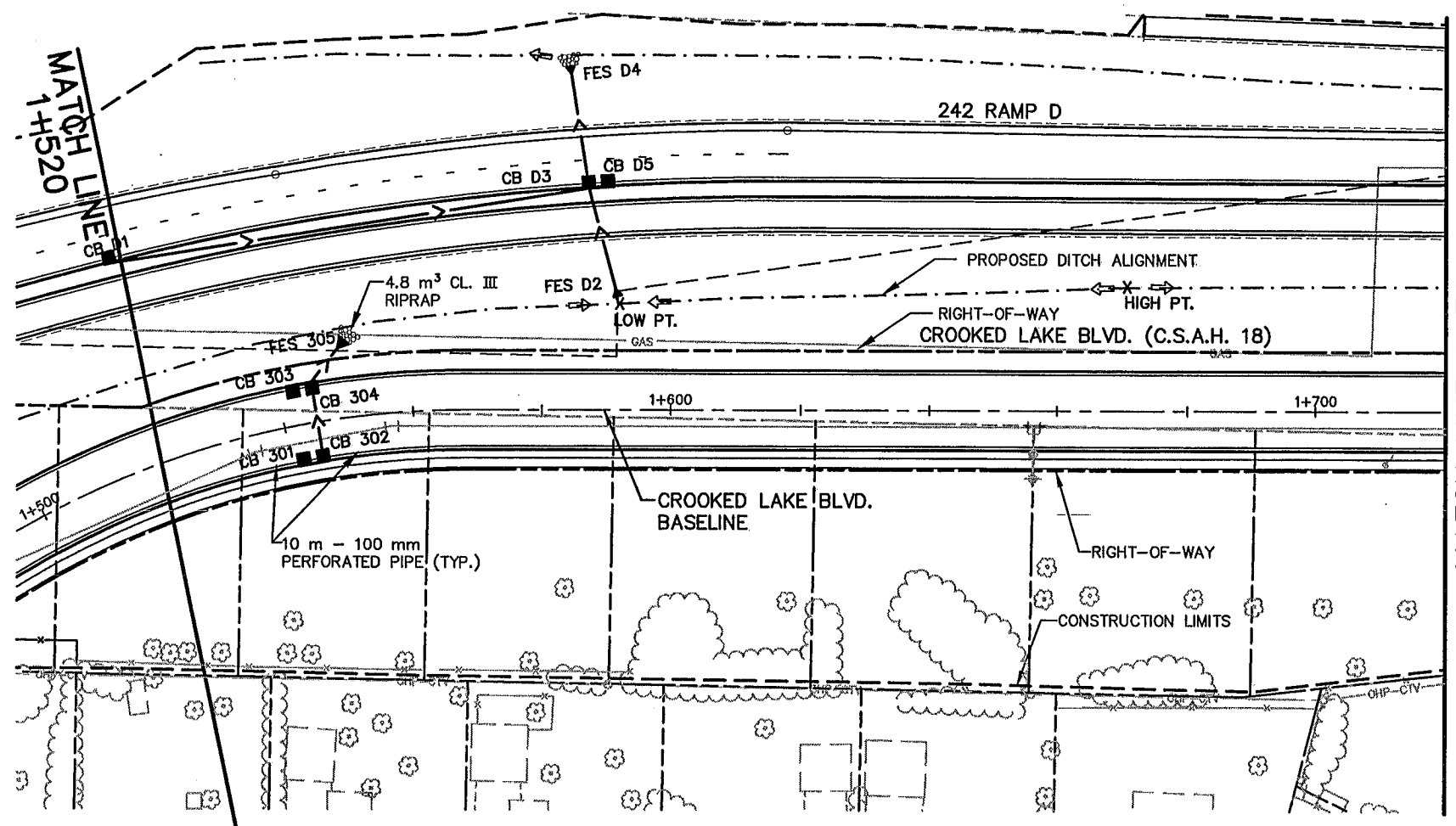
MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVE. N.W./CROOKED LK. BLVD.
DRAINAGE PLAN AND PROFILE
STATION 1+260.000 TO STATION 1+520.000
CITY PROJECT 98-20

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

42CLM-W
42E-CLM
APBOX
42MHVEG
42E-DRN
42E-PLN
24-PRF
42-PUT
42PLNW
42-
42L
42-EU

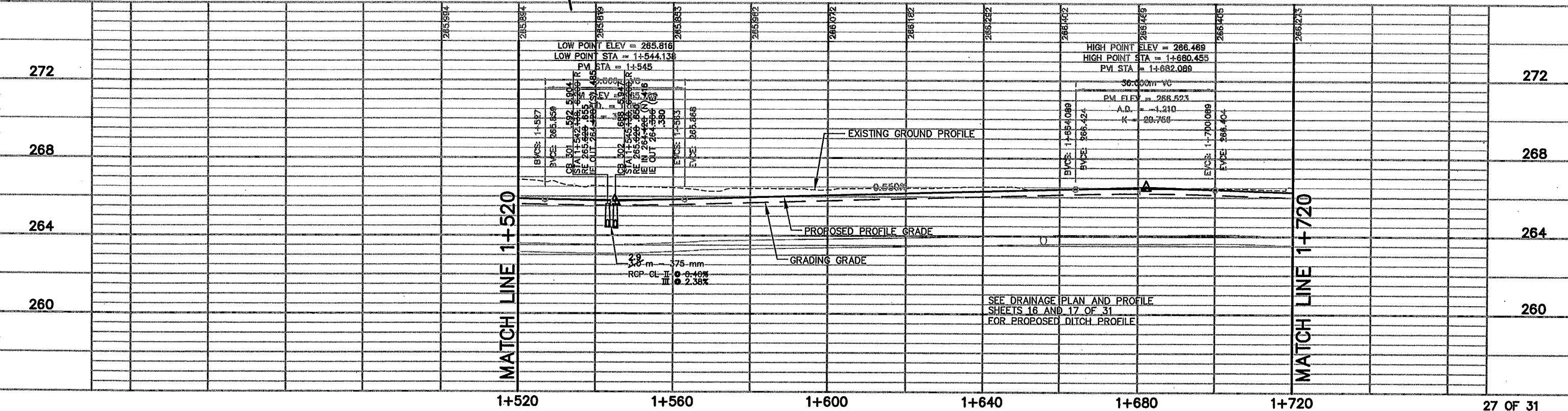
PLOT DATE: Dec 1 8:58am J4 8:58am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sf... GRING\124dr03.dwg



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/IKR
DESIGN BY: JUL
CHKD. BY: PBD/KPK
DWG. NAME: 124DR03
DATE: NOVEMBER 5, 1999

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

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

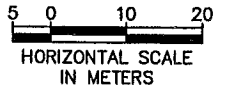
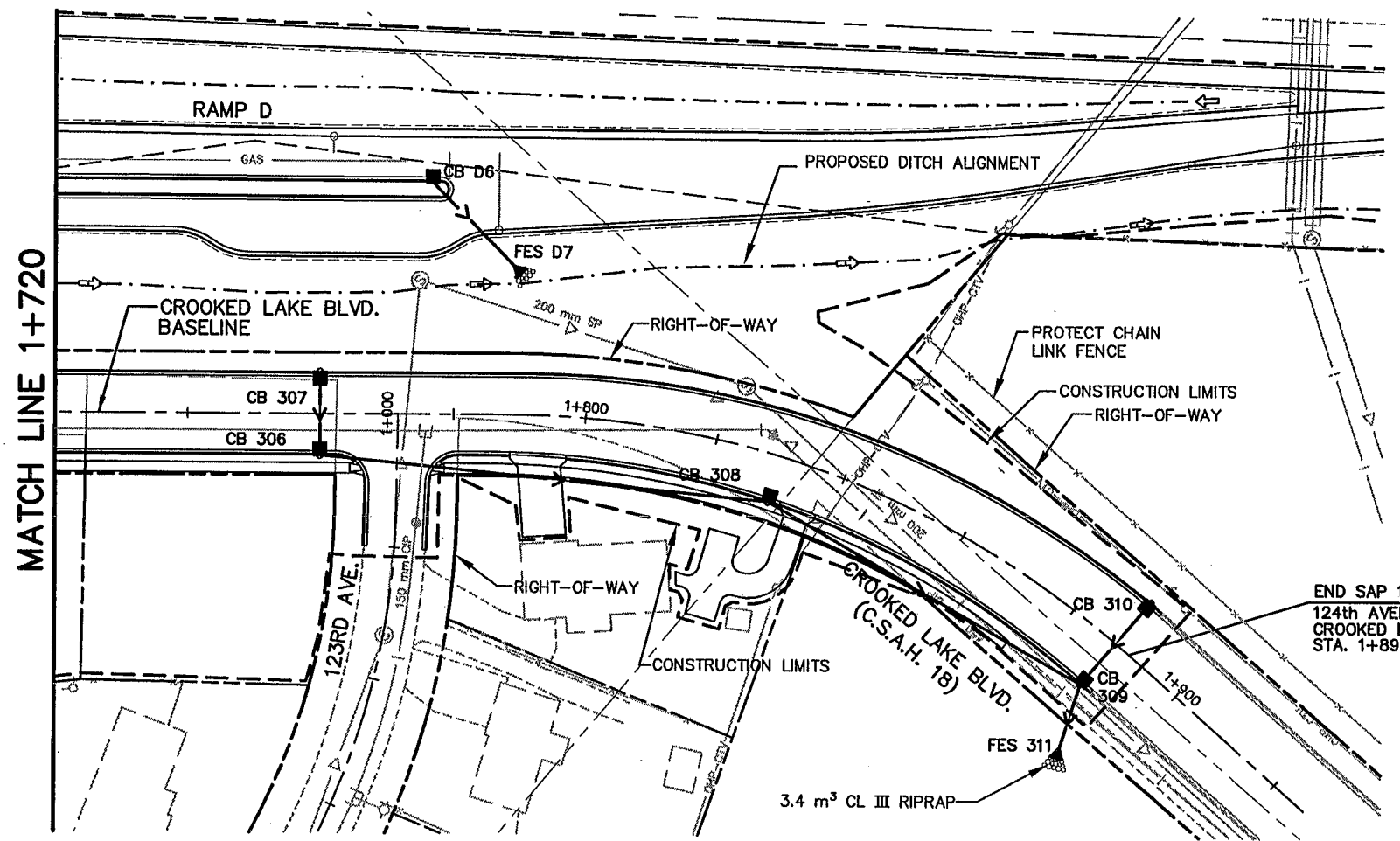
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kiehl
DATE: 11/5/99 MINN. REG. NO. 23211

**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)	SHEET NO.
S.A.P. 02 - 614 - 19	205
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 138 - 02	
S.A.P. 114 - 127 - 02	539

27 OF 31

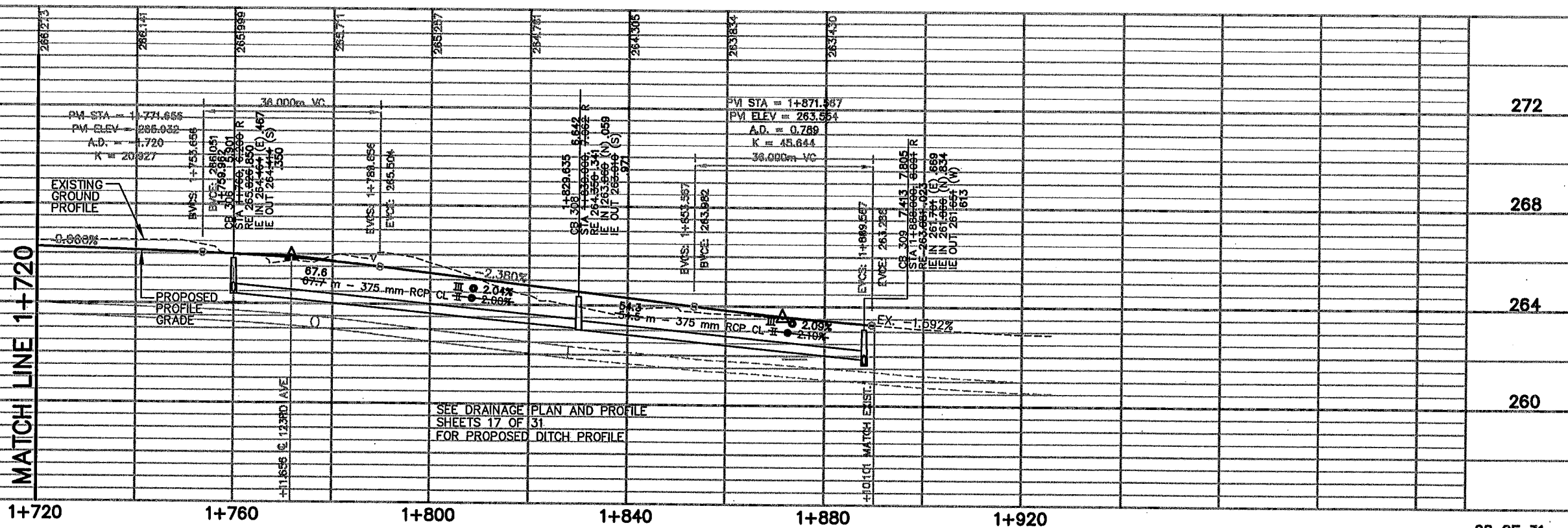
2E-CLM
PBOX
2E_DRN
2CLM-W
2E-PLN
2-PUT
4-
2f
2-
2-ESUM
2MHETO
2-EUT



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.



MATCH LINE 1+720

MATCH LINE 1+920

1+720 1+760 1+800 1+840 1+880 1+920

PLOT DATE: Dec 1 04 9:01am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S1\GRING\124dr04.dwg

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: JJJ
CHKD. BY: PBD DWG. NAME: 124DR04
DATE: NOVEMBER 5, 1999



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

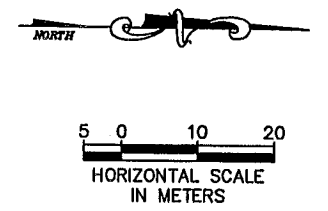
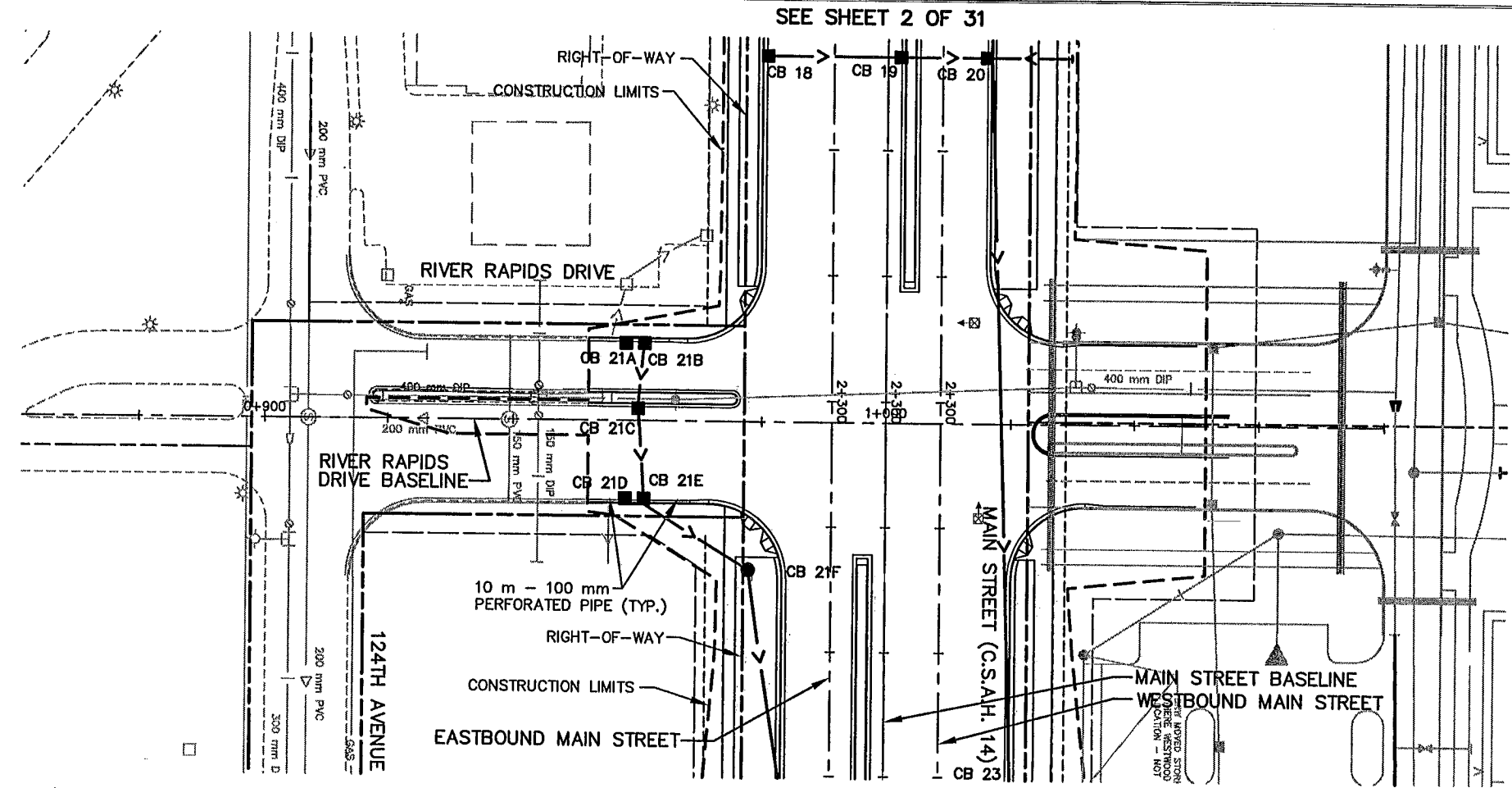
**MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BLVD. N.W. (C.S.A.H. 18)
DRAINAGE PLAN AND PROFILE
STA. 1+720.000 TO STA. 1+920.000**
CITY PROJECT 98-20

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

PBOX
 186UT1L
 186SITE
 2CLM-W
 2E-CLM
 2-PUT
 1SE-PRF
 2F
 2
 2-
 2MHVEG
 2MHETO
 2-EUT

PLOT DATE: Dec 1 9:04am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_Sh...GRING\Rosedr01.dwg



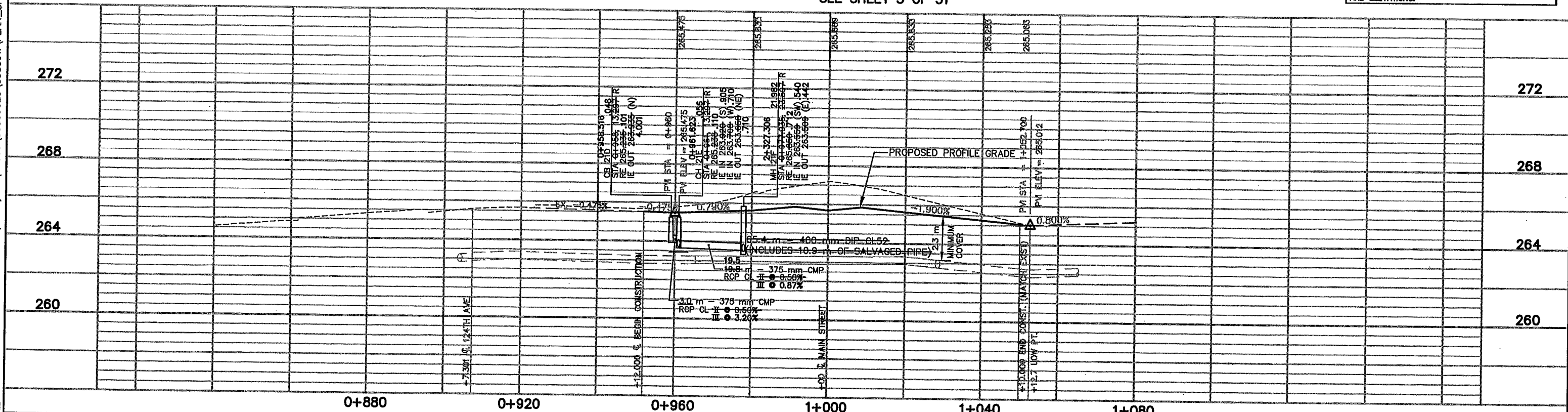
STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
 MANHOLES - ELK RIVER CONCRETE PRODUCTS

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.

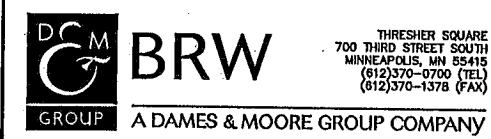
SEE SHEET 2 OF 31

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: JJJ/BDB
 CHECKED BY: PBD/KPK
 DWG. NAME: ROSEDRO1
 DATE: NOVEMBER 5, 1999



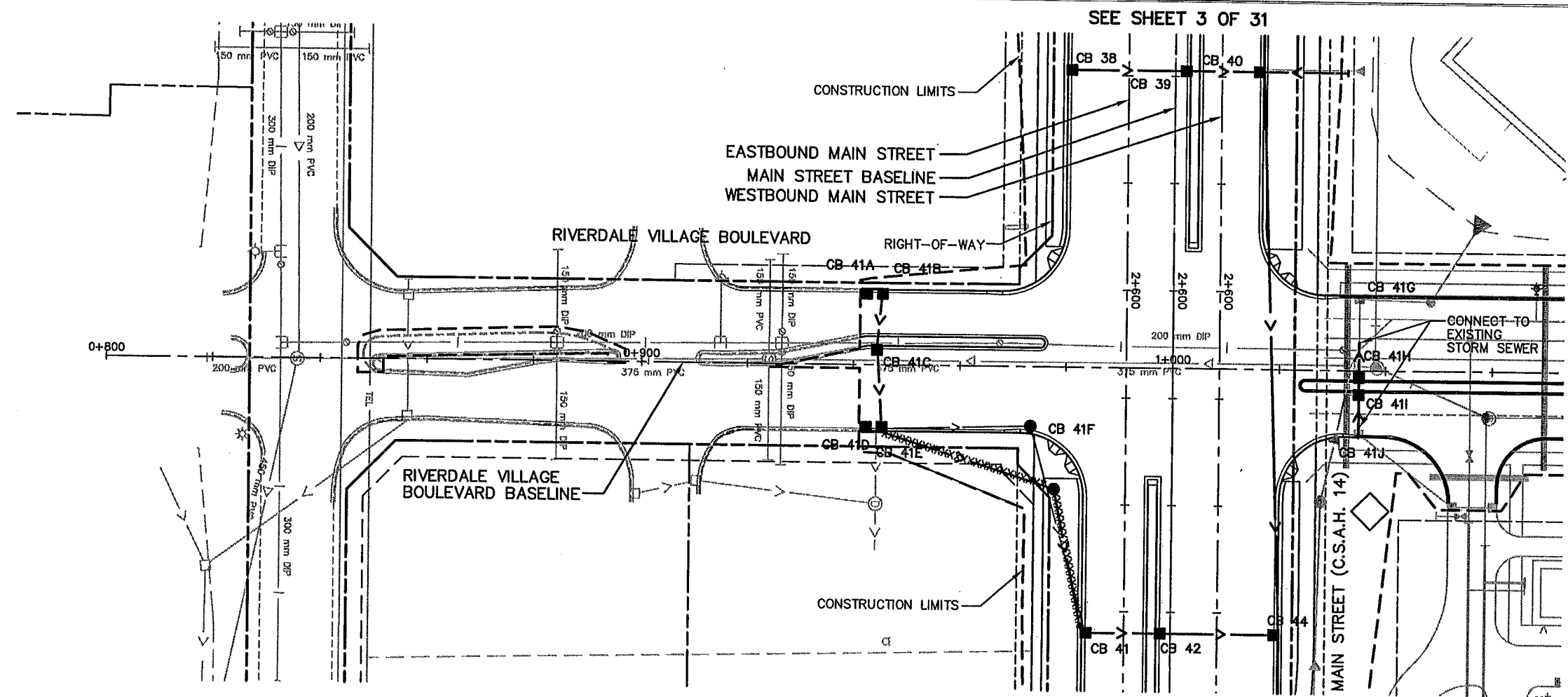
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P. Kiel
 DATE: 11/5/99 MINN. REG. NO. 23211

**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

29 OF 31
 SHEET NO. 207
 539

PBOX
86UTIL
86SITE
2CLM-W
2-PUT
PP-PRF
2P
2
2-
2MHETO
2-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

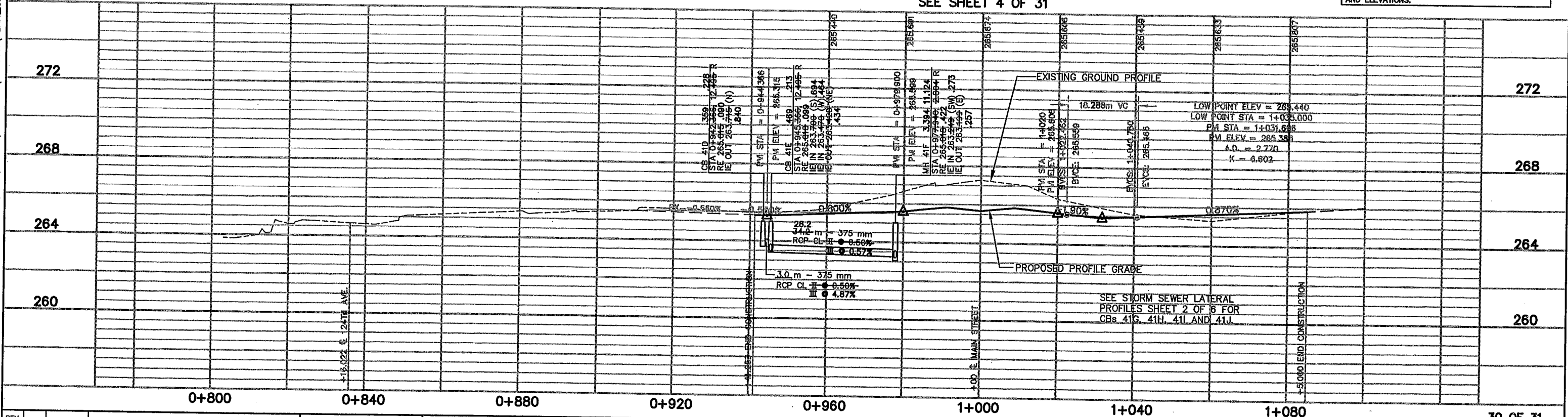
NOTE:
STORM SEWER STRUCTURE OFFSET DISTANCES SHOWN ARE BASED UPON THE BASELINE ALIGNMENT AND ARE TO THE BACK OF CURB.

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

SEE SHEET 3 OF 31

SEE SHEET 4 OF 31

PLOT DATE: Dec 1 9:07am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_St...GRING\Poppr01.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	8/06/00	MOD. REQ. #37: ADDED CB41G, CB41H, CB41I & CB41J
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
PMJ/KR
DESIGN BY:
JUL/BDB
CHECKED BY:
PBD/KPK
DWG. NAME:
POPPDR01
DATE:
NOVEMBER 5, 1999



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

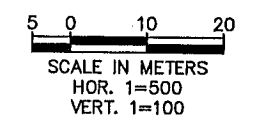
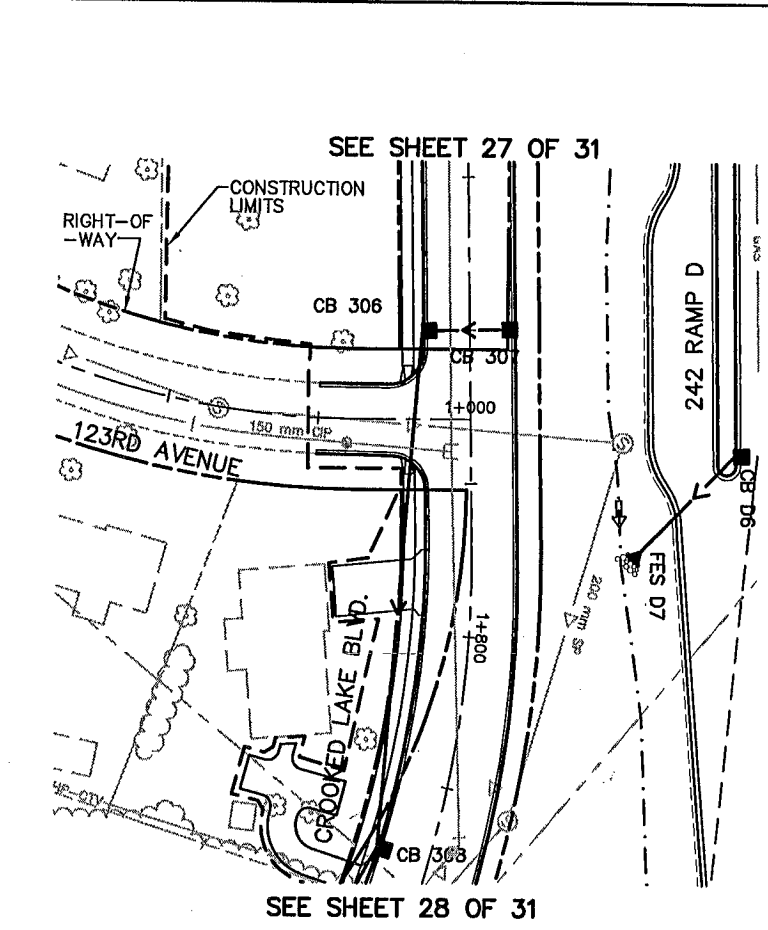
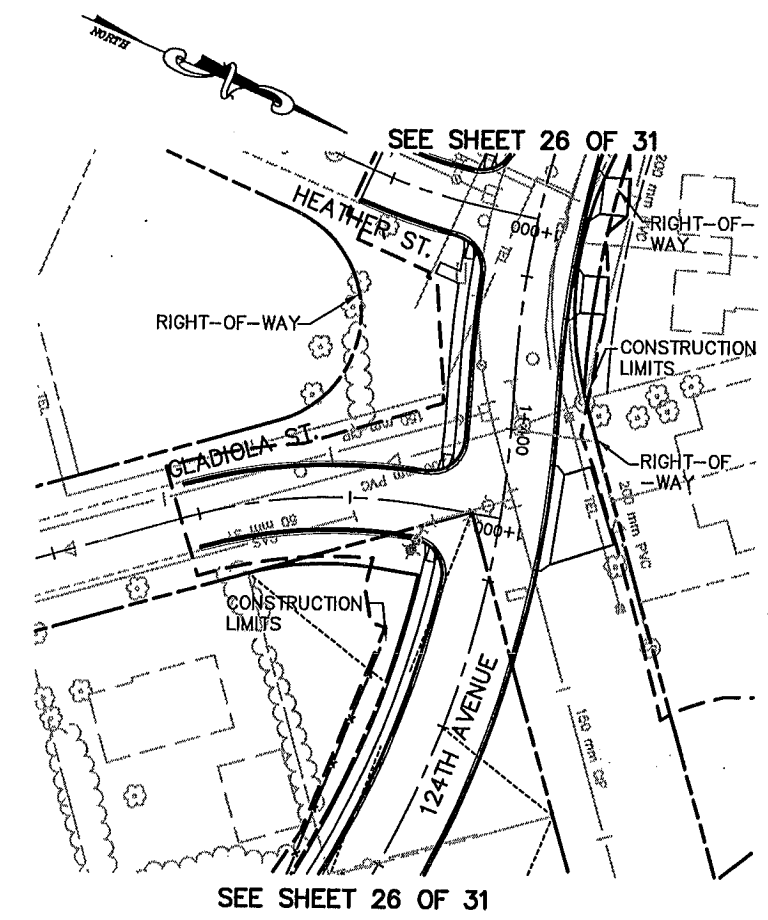
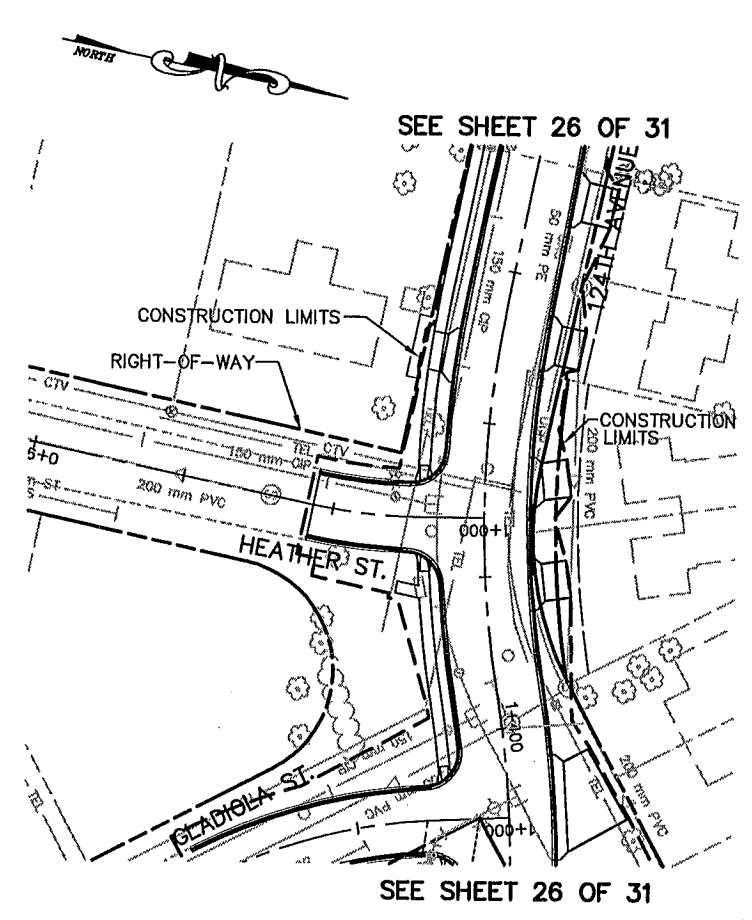
MAIN STREET/T.H. 242 RECONSTRUCTION
RIVERDALE VILLAGE BOULEVARD
DRAINAGE PLAN AND PROFILE
STATION 0+835.993 TO STATION 1+085.000
CITY PROJECT 98-20

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

42E_DRN
 APBOX
 42-PUT
 42CLM-W
 42E-PLN
 42E-CLM
 23-PRF
 LA
 E
 42H
 42-ESUM
 42-AL1
 42MHVEG
 42MHETO
 42-EUT

PLOT DATE: Jan 000 8:11am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN\INGRNG\ROADDR01.dwg



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.

274	HEATHER STREET	GLADIOLA STREET	123RD AVENUE	274
270				270
266	EXISTING-GROUND-PROFILE PROPOSED PROFILE GRADE	EXISTING-GROUND-PROFILE PROPOSED PROFILE GRADE	EXISTING-GROUND-PROFILE PROPOSED PROFILE GRADE EX. 0.680%	266
262				262
258				258
	0+960 1+000	0+960 1+000	0+960 1+000	

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JKR	12/30/99	DEL. REFERENCE TO NOTE 8 FOR HEATHER & 123rd ADDED RAMP D PATROL PAD, MOVED FES D7
2	TSR	2/8/04	AS-BUILT

DESIGN FILE:
 33889028
 DRAWN BY:
 PMJ
 DESIGN BY:
 JUL
 CHKD. BY:
 PBD/KPK
 DWG. NAME:
 ROADDR01
 DATE:
 NOVEMBER 5, 1999



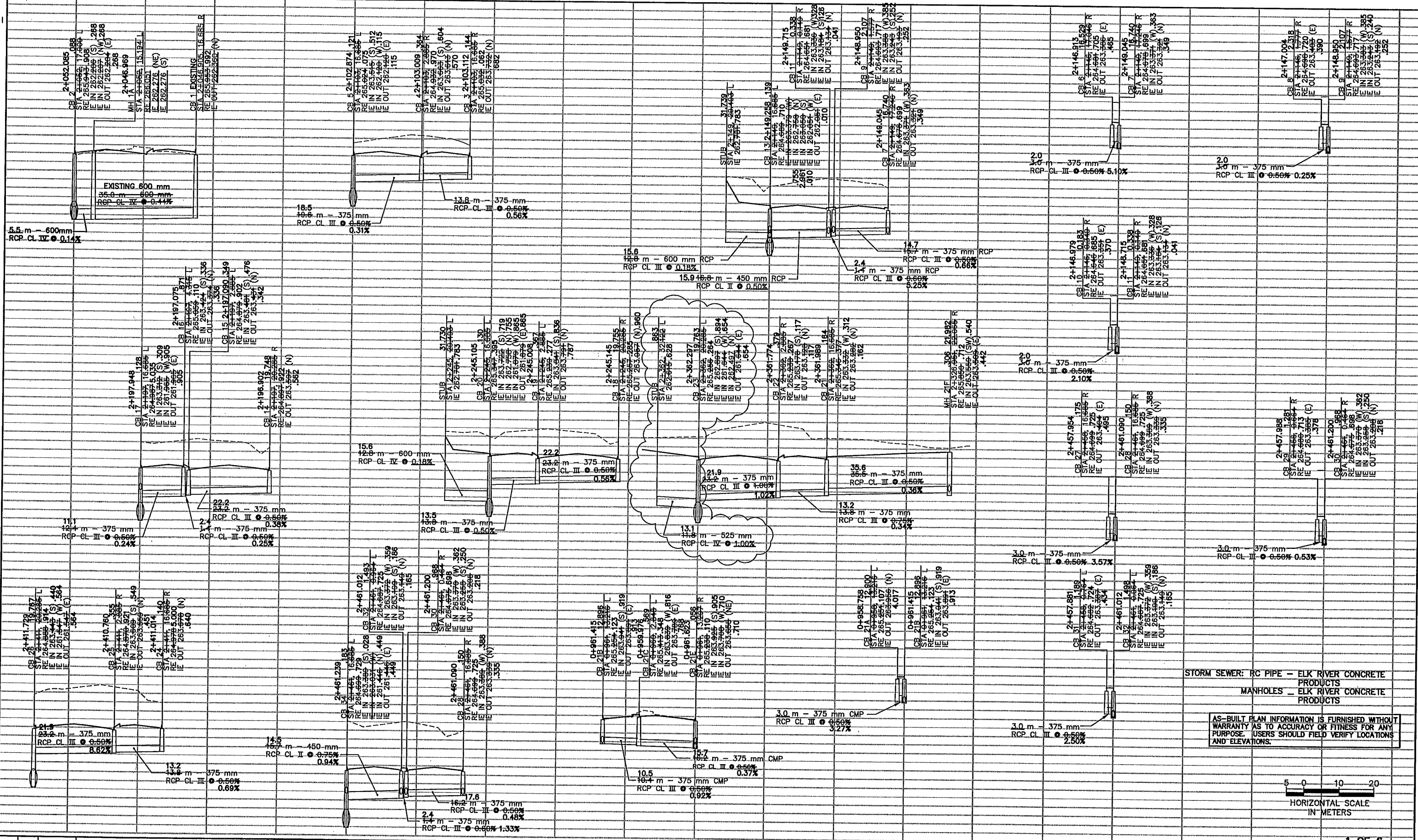
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kuhl
 DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
 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

31 OF 31
 SHEET NO.
 209
 539

PLOT DATE: Apr 2004 3:16pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN\ENGRING\242dr05.dwg



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	JUL	3/08/00	MOVED CB No's: 6, 8, 10, 12, 21A, 27, 29, 31, 33.
2	JUL	4/08/00	MOD. REQ. #8: DELETED PROFILES: CB 12 TO CB 13 & CB 33 TO CB 34.
3	JUL	7/7/00	MOD. REQ #48: ADDED STUB TO CB23
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	
DRAWN BY: PMJ	DESIGN BY: JUL
CHKD. BY: PBD/KPK	DWG. NAME: 242DR05
DATE: NOVEMBER 5, 1999	



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

BRW
 THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

A DAMES & MOORE GROUP COMPANY

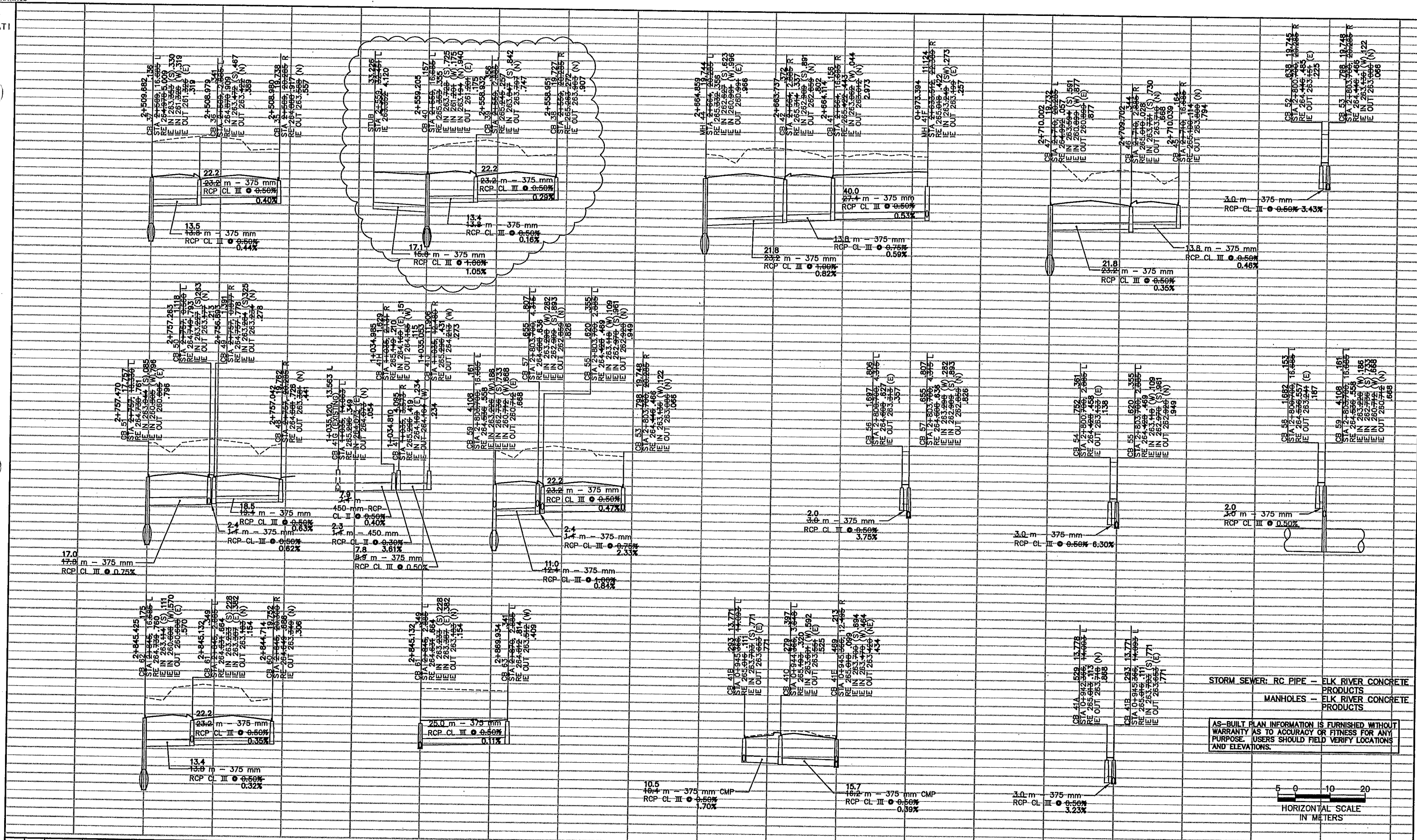
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16

Kevin P. Kuhl
 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

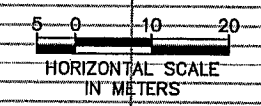
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	210
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	

1 OF 6
 539



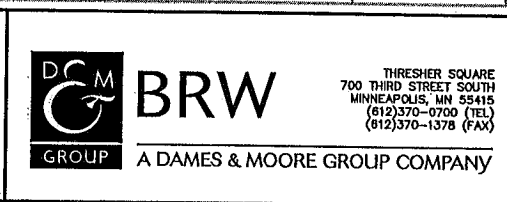
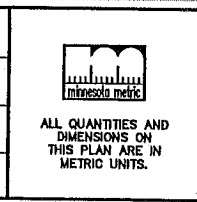
STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
 MANHOLES - ELK RIVER CONCRETE PRODUCTS

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	JUL	3/06/00	MOVED CB No's: 41A, 52, 54, 56, 58. ADDED CB41D & CB41E.
2	JUL	6/06/00	MOD. REQ. #37: ADDED CB 41G, 41H, 41I & 41J.
3	JUL	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: JJJ
 CHKD. BY: PBD/KPK
 DWG. NAME: 242DR06
 DATE: NOVEMBER 5, 1999



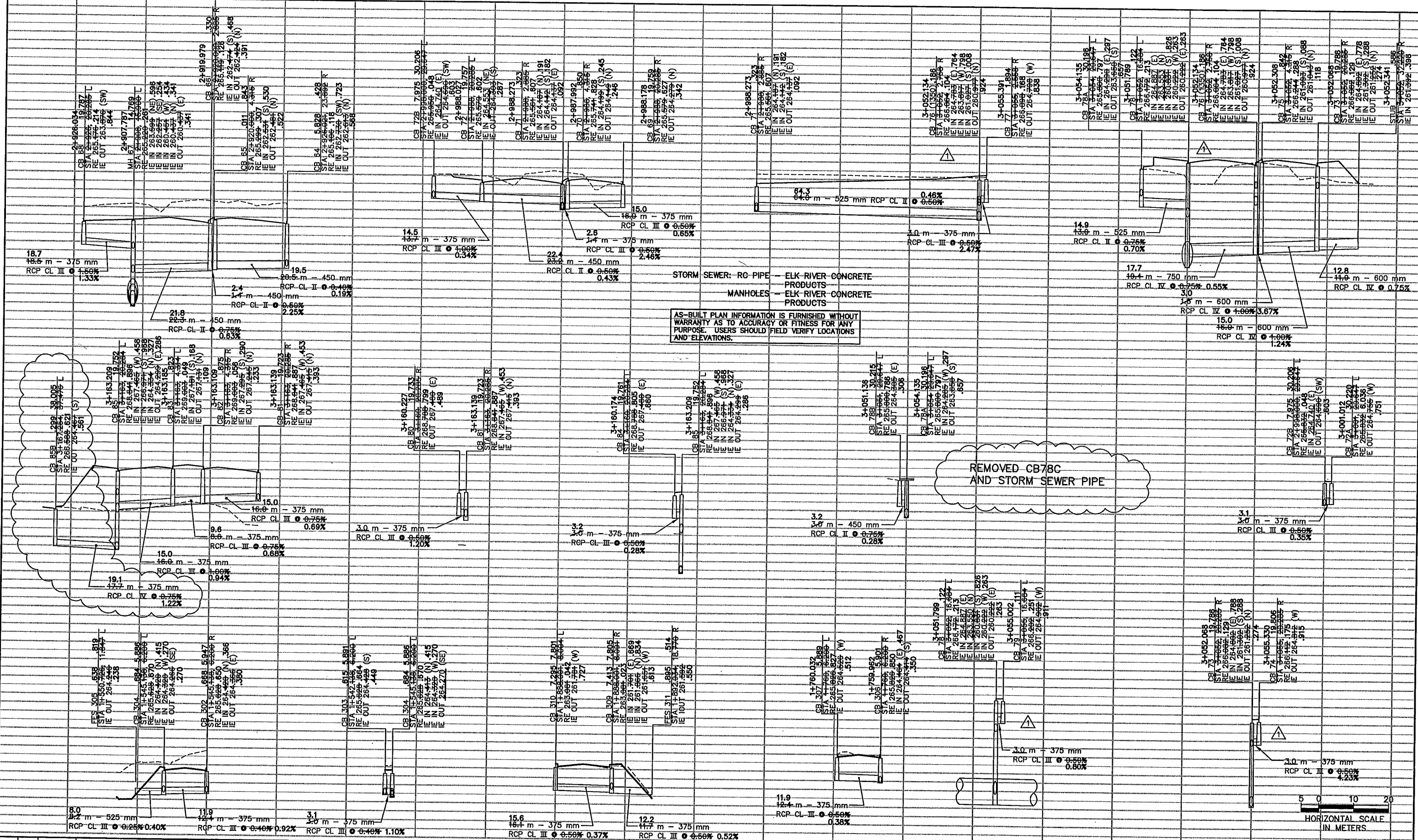
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kull
 DATE: 11/3/99 MINN. REG. NO. 23211

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

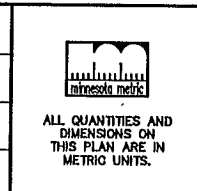
SHEET NO. 211

539



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	2/17/00	ADDEND Δ ADDED STUB, MODIFIED PIPE SIZES AND SEWER DEPTH
2	JUL	3/08/00	MOVED CB No 87
3	JUL	3/20/00	MOVED MH 87
4	JUL	4/08/00	MOD. REQ. #8; MOD. PIPE LENGTH FROM CB 78A TO 78
5	JUL	4/17/00	MOD. REQ. #10; MOD. CB 88 LOCATION, IE'S, PIPE LENGTH
6	JUL	7/5/00	MOD. REQ. #38; ADDED CB 85B, REMOVED CB 78C
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: PMJ	DESIGN BY: JJL
CHKD. BY: PBD/KPK	DWG. NO.7: 242DR07	
DATE: NOVEMBER 5, 1999		



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A DAMES & MOORE GROUP COMPANY

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)376-0788 (TEL)
(612)376-1378 (FAX)

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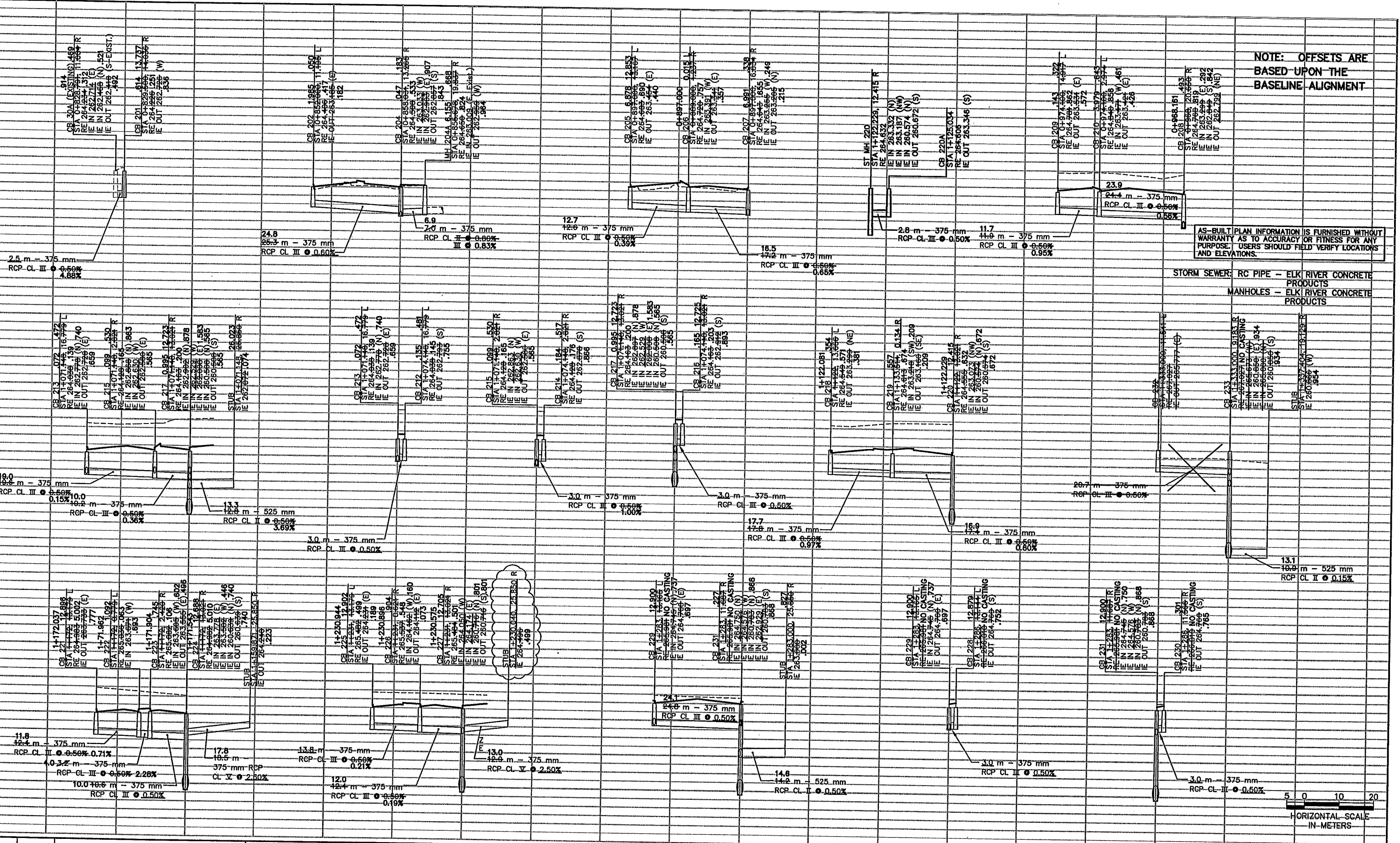
Kevin P. Kull

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

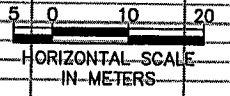
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	212
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PLOT DATE: Dec 04 9:09am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_5\INGR\242DR08.dwg



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STORM SEWER: RC PIPE - ELK RIVER CONCRETE PRODUCTS
MANHOLES - ELK RIVER CONCRETE PRODUCTS



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLL	3/08/00	MOVED CB No's: 212, 214, 216, 228, 230.
2	JLL	4/09/00	MOD. REQ. #8: MODIFIED LOCATION OF STUB TO CB 233
3	JLL	5/25/00	MOD. REQ. #10B: ADDED STUBS TO CB224, 231, MOD STUBS TO CB217 & CB227
4	JLL	6/01/00	MOD. REQ. #27: MODIFIED INVERTS FROM CB205 & CB206
5	JLL	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: JLL
CHKD. BY: PBD/KPK	DWG. NAME: 242DR08	DATE: NOVEMBER 5, 1999



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700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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(612)370-1376 (FAX)

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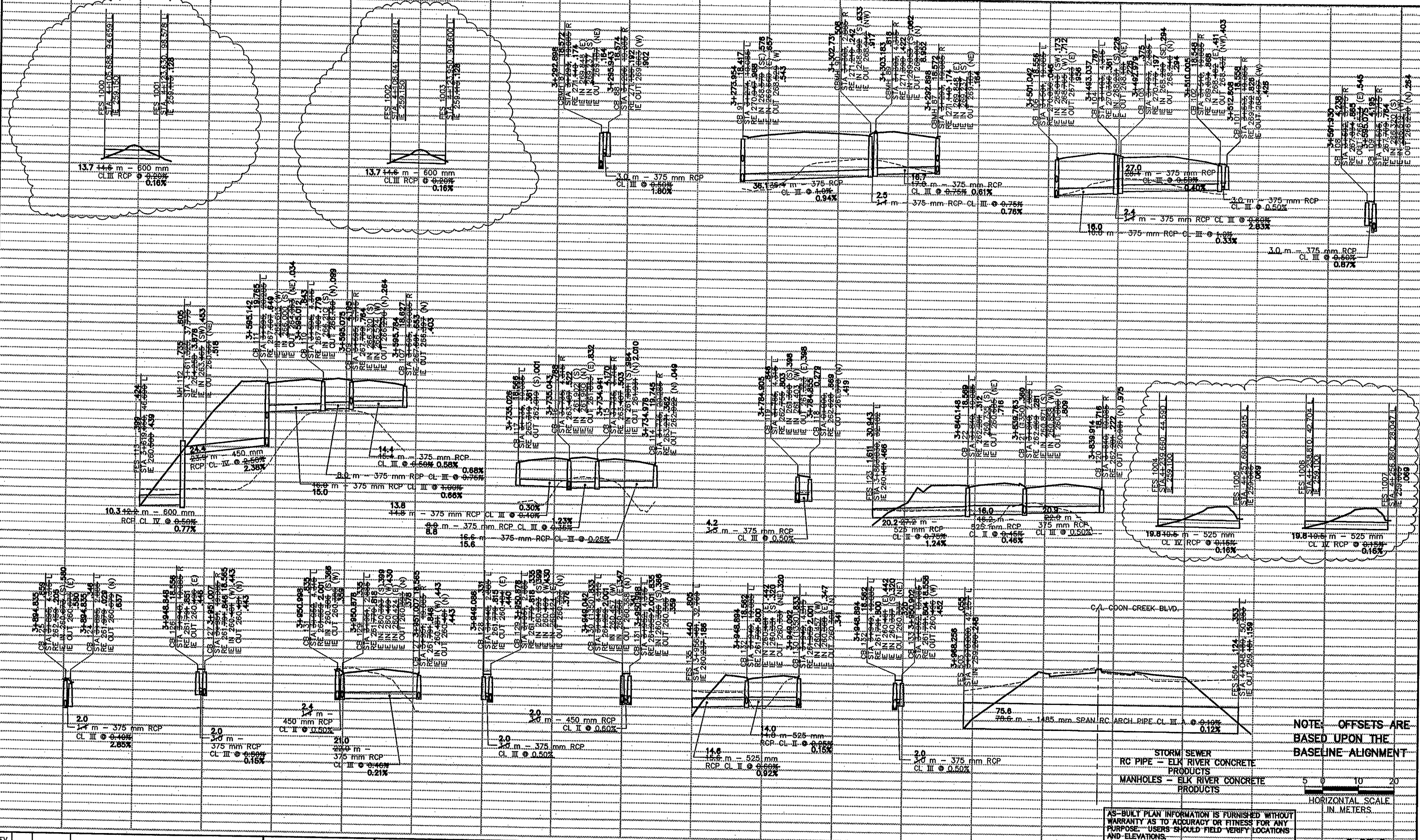
Kevin P. Kullb

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



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED FES 509, 510, 511 & 512
2	J.L.	3/08/00	MOVED CB No's: 101,108,126,128,131,133, REVISED IE CB # 88,101,109,126,128,130,132,133,135, MOD. REQ. #74: ADDED CULVERTS
3	B.K.	07/17/01	AS-BUILT DRAWING
4	TSR	2/27/04	

DESIGN FILE:
33889028

DRAWN BY:
IKR

DESIGN BY:
J.L.

CHKD. BY:
PBD/KPK

DWG. NAME:
242DRX1

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
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

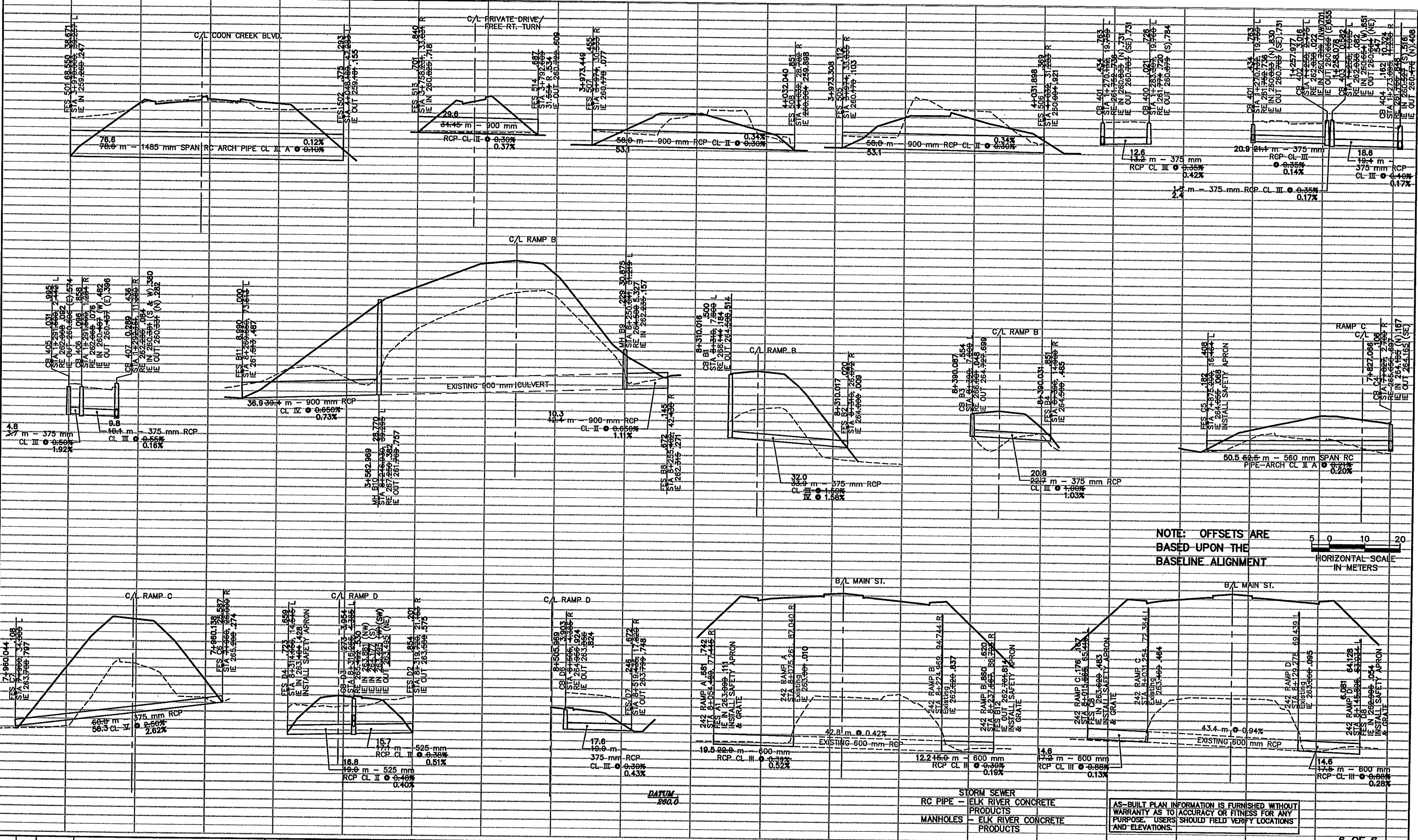
S.A.P. 114 - 136 - 02

S.A.P. 114 - 127 - 02

SHEET NO.
214

539

PLOT DATE: Dec 304 9:13am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-S-42EDRX2.dwg



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	JUL	3/08/00	REVISED IE CB'S C4 & C5.
3	JUL	4/06/00	MOD. REQ. #8: MODIFIED LOCATION FES D4
4	JUL	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	JUL	5/15/00	MOD. REQ. #28: MOVED CB 404
6	ISR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: IKR	DESIGN BY: JUL
CHKD. BY: PBD/KPK	DWG. NAME: 242EDRX2	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. Kiel

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)	SHEET NO.
S.A.P. 02 - 614 - 19	215
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

DRAINAGE TABULATION

Large table with columns for STRUCTURE, STRUCT. NO., STATION, OFFSET, and various pipe diameters (375mm RCP, 450mm RCP, etc.). Includes a diagonal line across the table.

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. [11] INSTALL SAFETY APRON WITH GRATE - REFER TO MNDOT STANDARD PLATE M312BF. [12] INCLUDES 46 m3 FOR LOW FLOW CHANNEL IN PROPOSED POND. [13] INCLUDES 140 m2 FOR LOW FLOW CHANNEL IN PROPOSED POND.

PLOT DATE: Aug 2004 8:33am DISK FILE NAME: (15.06) R:\33889\33889028\33889E TABS\2+ztab18.dwg

FURNISH AND INSTALL CASTING ASSEMBLIES. Table with columns for CASTING ASSEMBLY, SAP, and TOTAL. Includes items like R-1733, R-3067 DR/DL, R-3250A, M4154B (3), and R-4990-AX.

Table with columns for REV. NO., BY, DATE, and REVISIONS DESCRIPTION. Lists various engineering changes and dates from 12/30/99 to 7/27/04.

- (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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DESIGN FILE: 33889028, DRAWN BY: PJM, DESIGN BY: JVL, CHECKED BY: KPK, DWG. NAME: 242TAB18, DATE: NOVEMBER 5, 1999

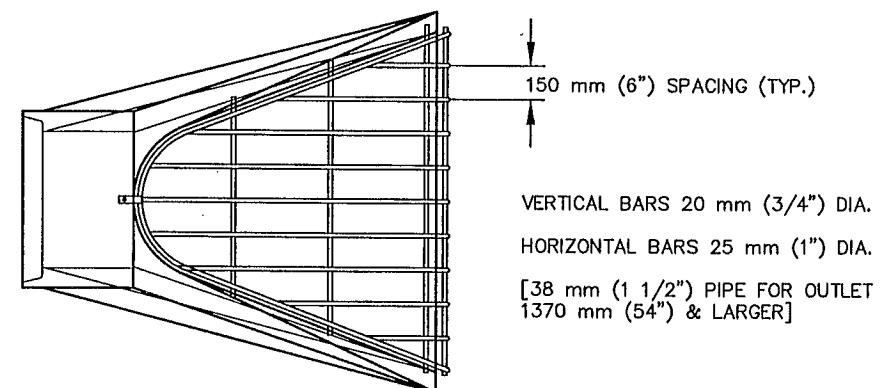


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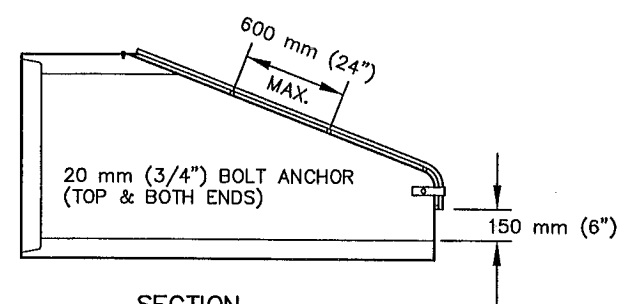
MAIN STREET/T.H. 242 RECONSTRUCTION MAIN STREET (TH 242 & RAMPS) TABULATED QUANTITIES DRAINAGE TABULATION. S.P. 0212-40 (T.H.242=242) S.A.P. 02-614-19, 02-618-24, 114-010-11, 114-020-19, 114-136-02, 114-127-02. SHEET NO. 219, 539. CITY PROJECT 98-20

DRAINAGE TABULATION - SPECIAL BRIDGE STORM SEWER. Table with columns for STRUCTURE, STRUCT. NO., STATION, OFFSET, and various pipe diameters (300mm CMP, 450mm RCP, etc.). Includes a diagonal line across the table.

NOTE: [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.



PLAN VIEW

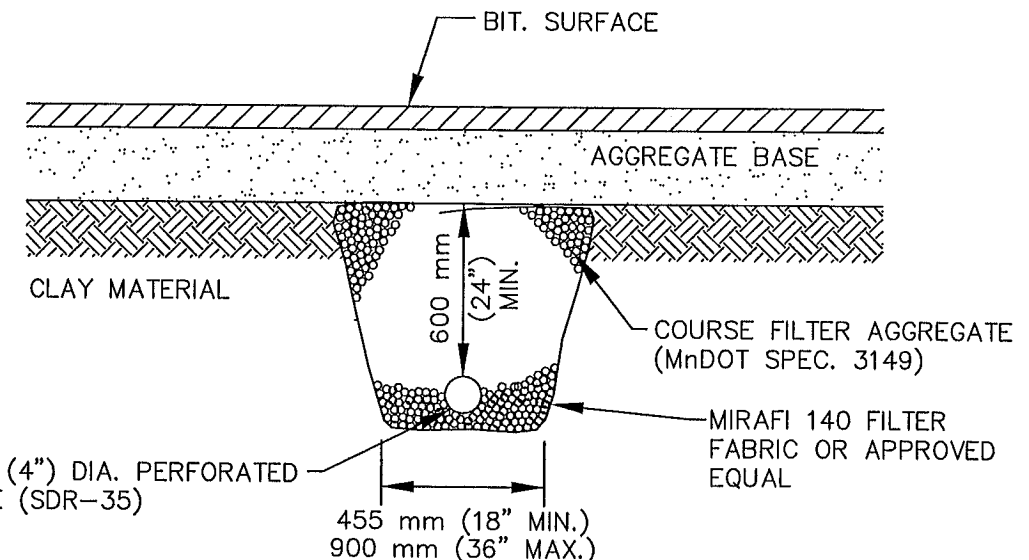


SECTION

- 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

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PLOT DATE: Dec 99 6:06pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_NGRING\242WDET5.dwg

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
CHKD. BY: PBD
DWG. NAME: 242WDET5
DATE: NOVEMBER 5, 1999

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MINNEAPOLIS, MN 55415
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Kevin P. Kullb

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

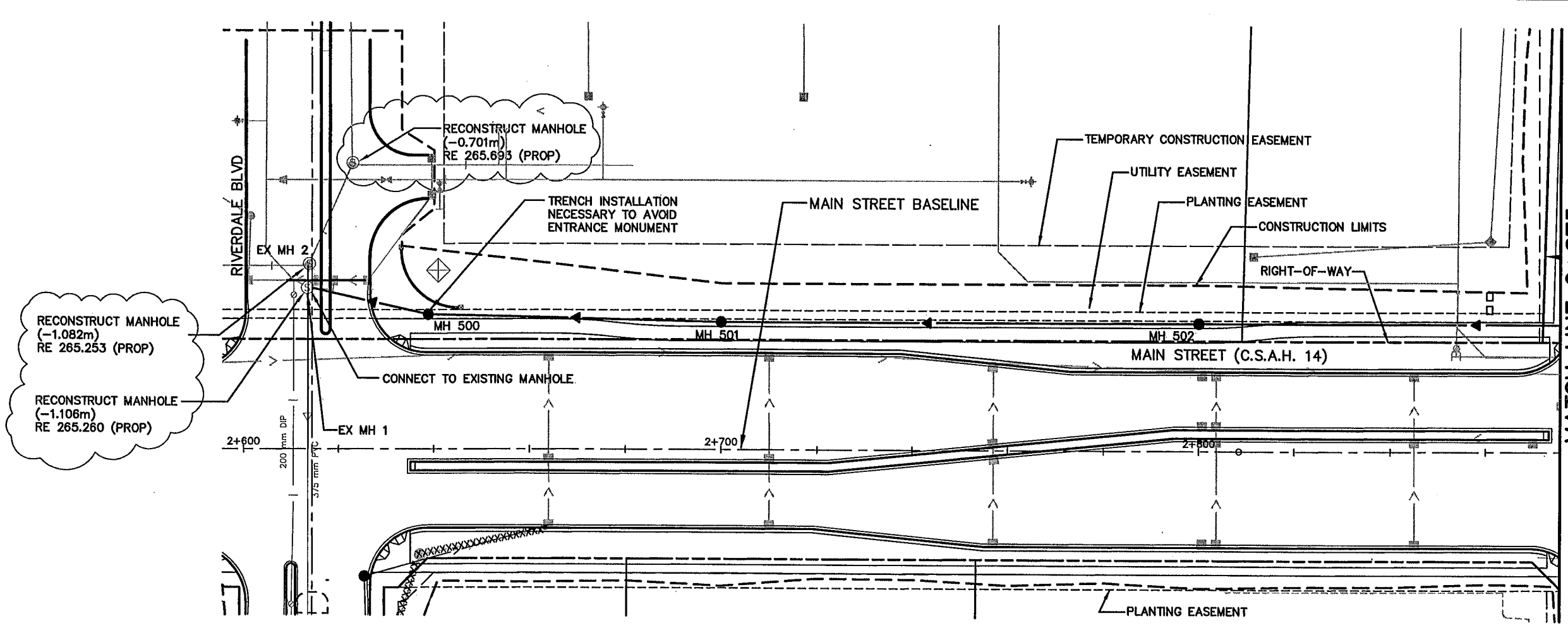
1 OF 1

SHEET NO. 220

539

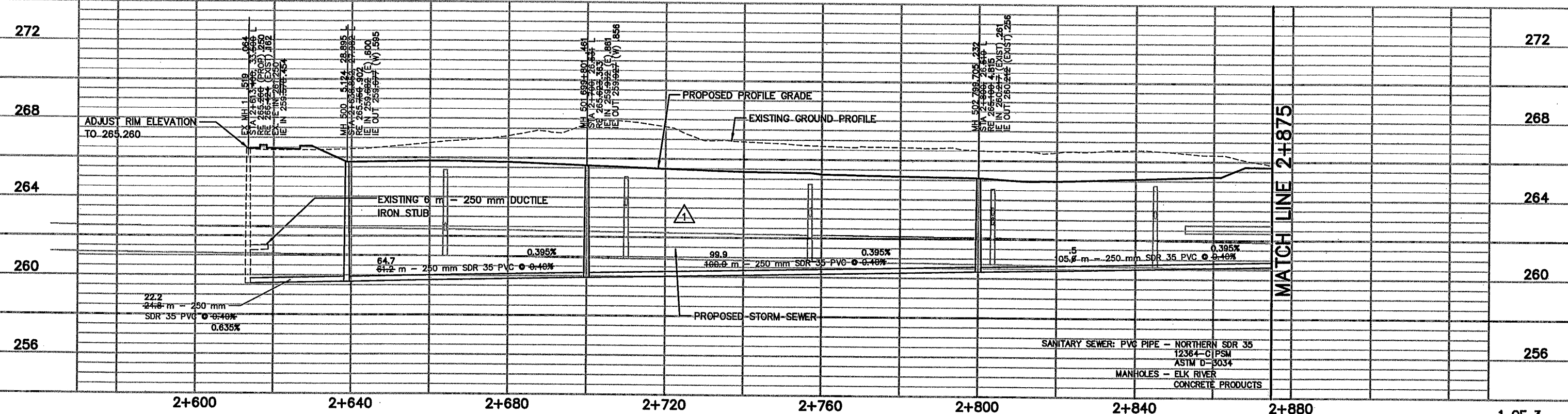
1 IN-PRF
 PBOX
 86 SITE
 86 UTIL
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 2 CI W
 N
 2-
 2-PUI
 2 PLNW
 2-ALIW
 2 MHVEG
 2 MHETO

PLOT DATE: Aug 11 3 07:28am
 DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SHT1\RING\SANPP01.dwg



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NOTE:
 OFFSETS TO SANITARY SEWER ARE BASED UPON THE MAIN STREET BASELINE.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	2/11/00	ADDENDUM MODIFIED PROFILE VIEW ELEVATIONS
2	JUL	4/17/00	MOD. REQ. #10: REVISED LOCATION OF MH 503, STUB
3	JUL	5/25/00	MOD. REQ. #10B: MODIFIED PIPE LENGTHS MH 502-MH 503A
4	JUL	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:
 JUL
 CHKD. BY:
 KPK
 DWG. NAME:
 SANPP01
 DATE:
 NOVEMBER 5, 1999



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

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

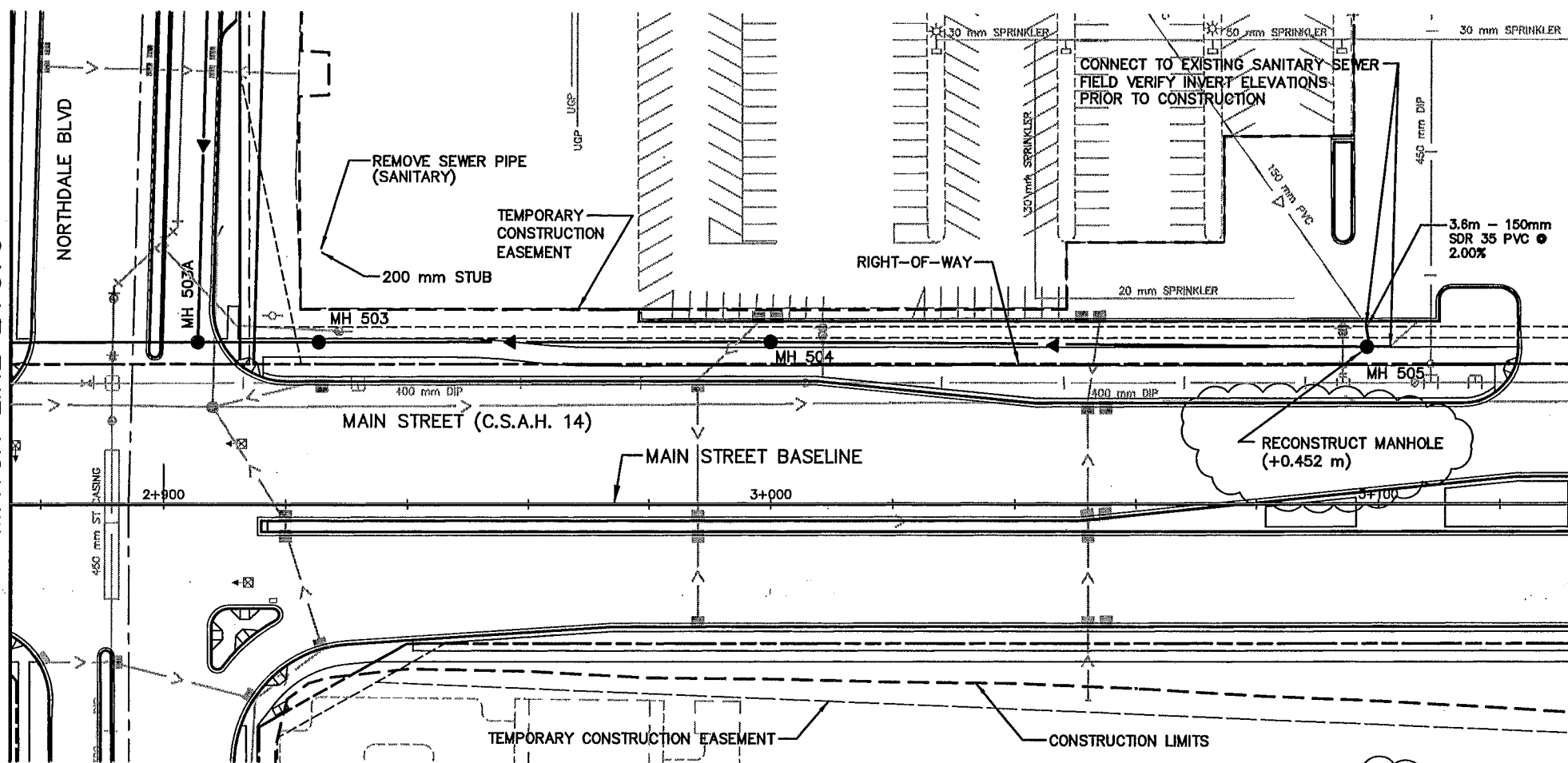
SHEET NO.
 221
 539

A1N-PRF
 APBOX
 386UTIL
 42CLM-W
 42-ESUM
 AN-PRF
 42-OUT
 42
 42MHVEG
 42MHETO
 42-EUT

SEE SHEET 3 OF 3

MATCH LINE 2+875

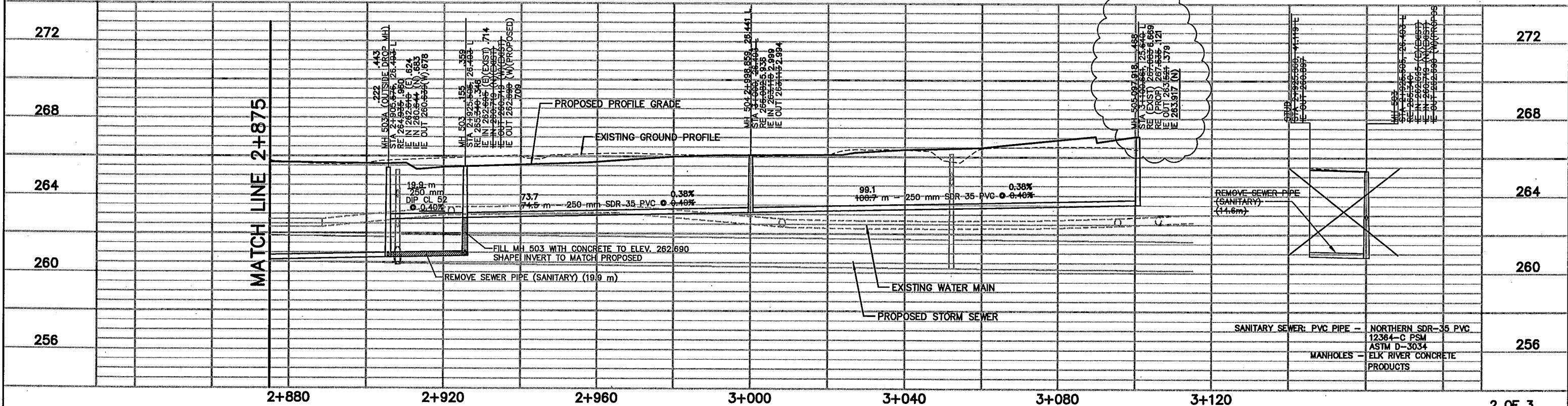
MATCH LINE 2+875



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NOTES:
 -OFFSETS TO SANITARY SEWER ARE BASED UPON THE MAIN STREET BASELINE.

PLOT DATE: Jun 26, 2000 2:36pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_SPT\YENGRING\SANPP02.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	4/17/00	MOD. REQ. #10: REVISED LOCATION OF MH 503, STUB
2	JUL	5/19/00	MOD. REQ. #10B: ADDED MH 503A, MODIFIED MH 503, ADDED DIP SEWER PIPE & REMOVED SANITARY
3	JUL	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:
 JUL
 CHECKED BY:
 KPK
 DWG. NAME:
 SANPP02
 DATE:
 NOVEMBER 5, 1999

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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)
 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

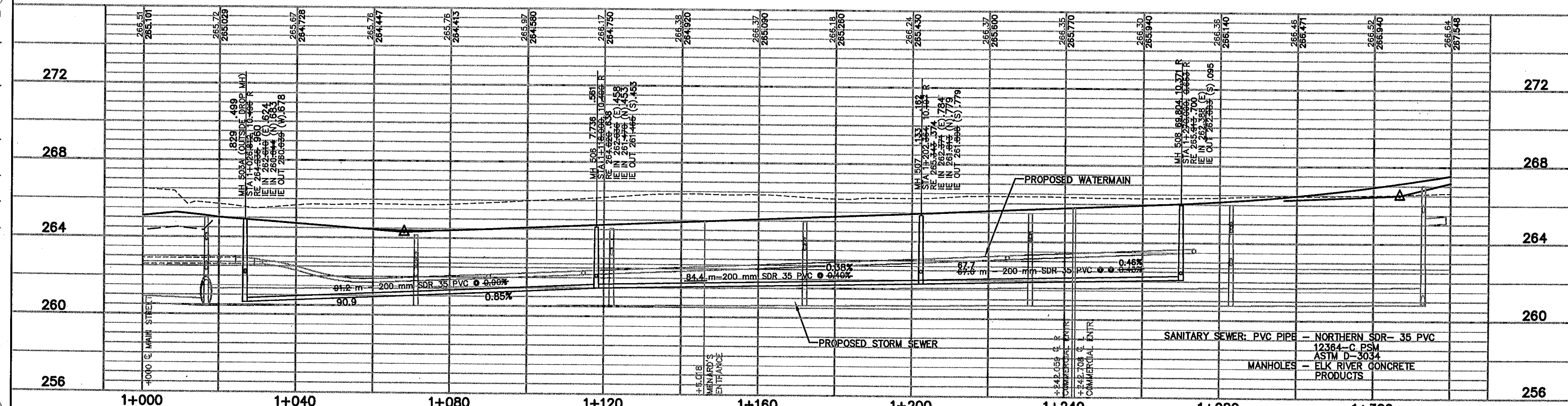
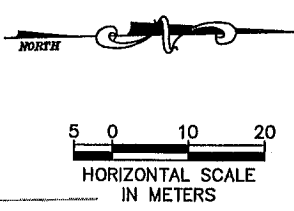
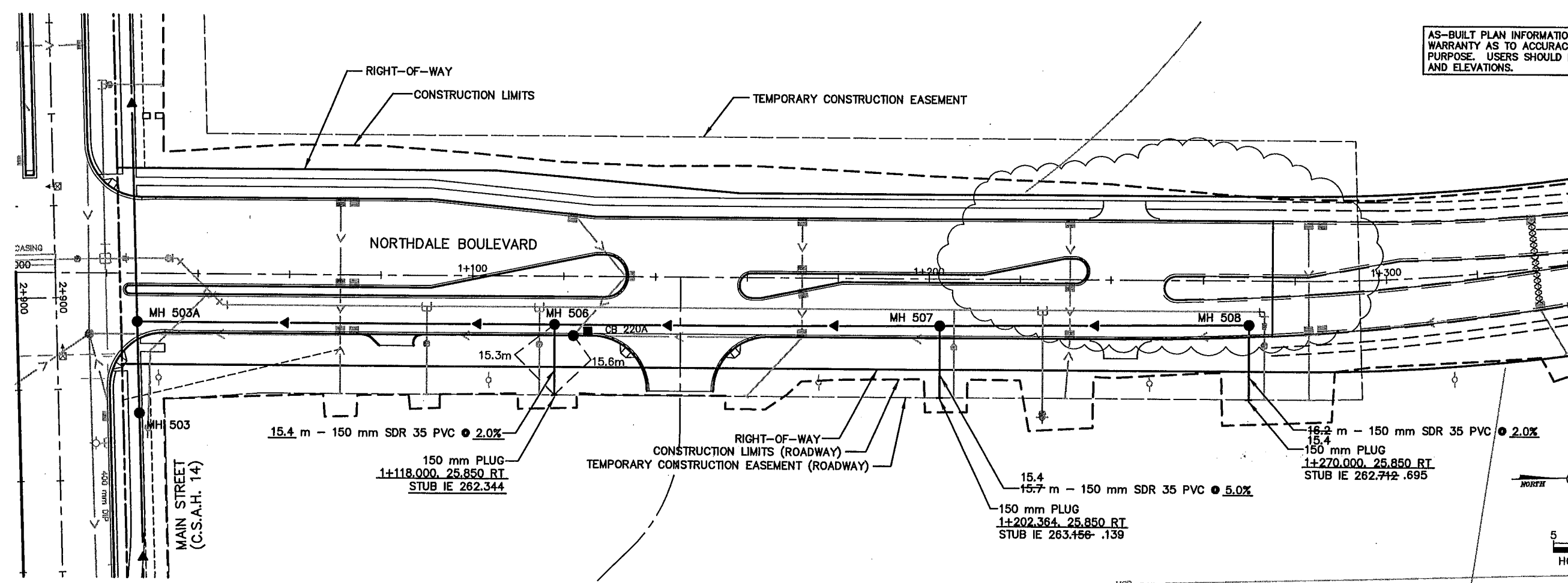
SHEET NO.
 222
 539

2 OF 3

APBOX
42CLM-W
42-ALIW
DALEPRF
42-PUT
42PLNW
42-PLUM
47
41
42-EUT

PLOT DATE: Oct 00 6:16pm DISK FILE NAME: (14.01) R:\33889\33889W\PLAN_S\NGRING\SANPP03.dwg

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	2/16/00	ADDEND Δ CHANGED STEEL CASING DIAMETER TO mm
2	JUL	4/19/00	MOD. REV. REQ. #10: ADDED SANITARY SEWER
3	JUL	6/25/00	MOD. REV. REQ. #10B: ADDED SANITARY SEWER TO ND BLVD
4	PMJ	9/29/00	MOD. REQ. #8B: REVISED MEDIAN, ADDED DRIVEWAY
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
JRJ
DESIGN BY:
JUL
CHKD. BY:
KPK
DWG. NAME:
SANPP03
DATE:
NOVEMBER 5, 1999

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

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

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

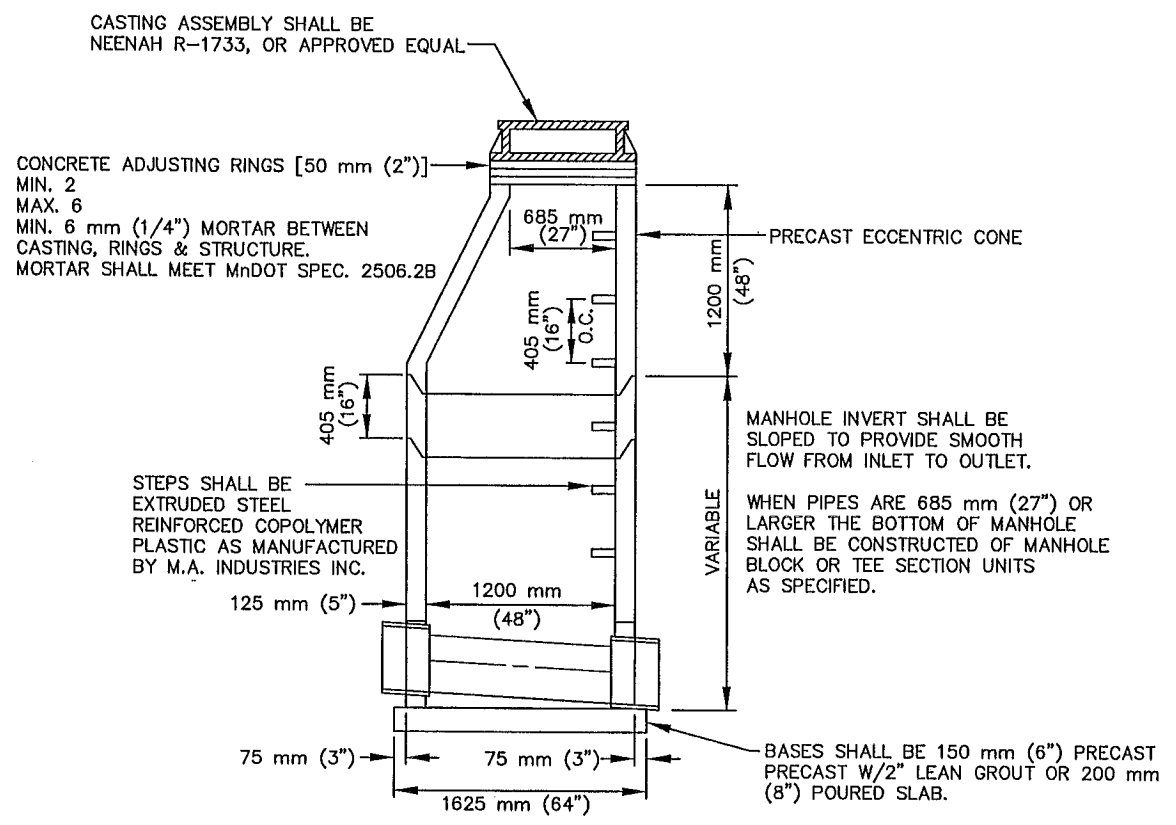
**MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDAL E AVENUE N.W.
SANITARY SEWER AND PROFILE
STATION 1+000.000 TO STATION 1+340.000**
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)

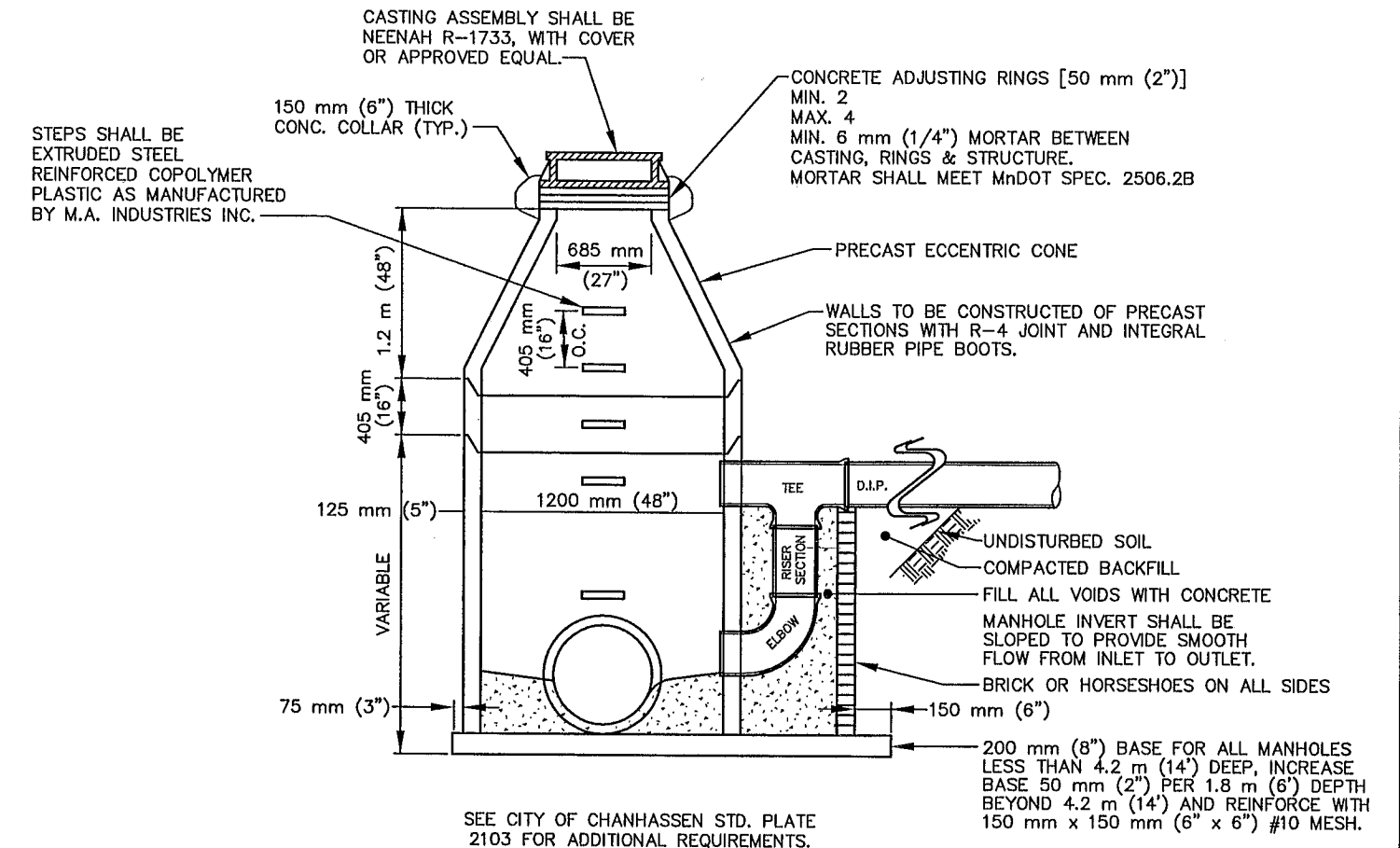
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 138 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
223
539

PLOT DATE: Jan 1 11:23am DISK FILE NAME: (14-01) R:\33889\33889028\33889W\PLAN_S\GRING\242WDET4.dwg



SANITARY MANHOLE
NOT TO SCALE

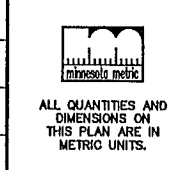


STANDARD DROP MANHOLE
NOT TO SCALE

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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
 CHKD. BY:
 PBD
 DWG. NAME:
 242WDET4
 DATE:
 NOVEMBER 5, 1999



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

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

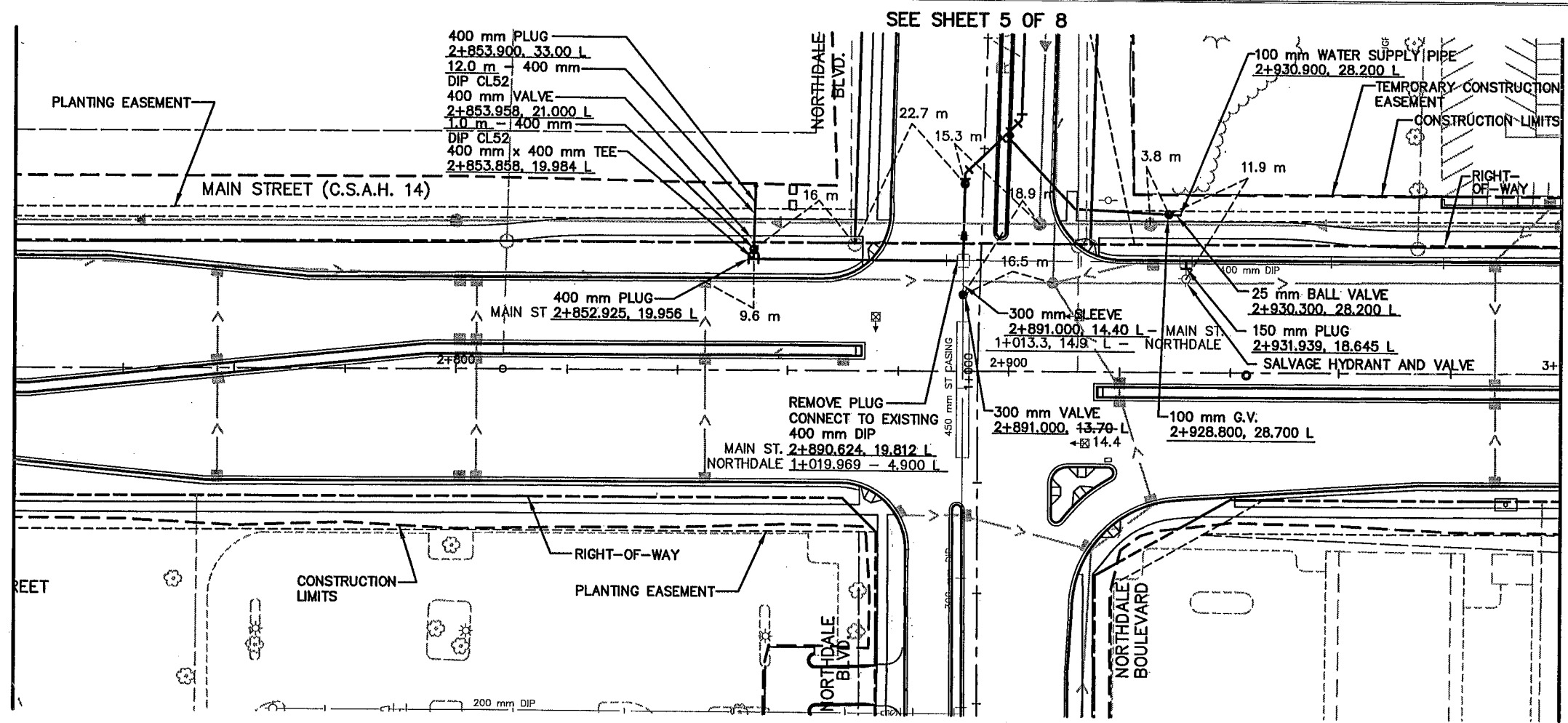
MAIN STREET/T.H. 242 RECONSTRUCTION
 MAIN STREET (C.S.A.H. 14)
 SANITARY SEWER DETAILS
 CITY PROJECT 98-20

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

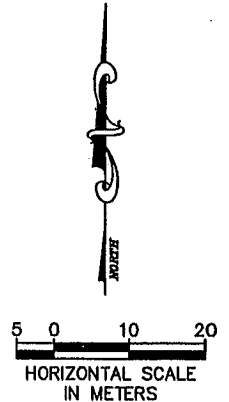
1 OF 1
 SHEET NO.
224
539

- 2-BOX
- 2E-TXT
- 2-STRIP
- 2-CLM-W
- 2-PUT
- 2-PLA
- 2-
- 2-IN
- 2-ESUM
- 2MHVEG
- 2MHETO
- 2-EUT

PLOT DATE: Apr 04 3:34pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SH...RING\242wat06.dwg



SEE SHEET 5 OF 8



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

272	267.07 265.245	267.02 265.105	266.97 264.965	266.91 264.929	266.84 264.767	266.75 264.802	266.75 264.922	266.65 265.092	266.50 265.152	266.45 265.172	266.45 265.102	266.34 265.832	266.32 265.992	272
268	WATERMAIN: CLASS 52 DIP PIPE - CLOW VALVES, GV & BV - MULLER CLOW WATEROUS VALVE BOXES - TYLER DIP FITTINGS - TYLER/UNION MEGALUGS - EBBA HYDRANTS - WATEROUS PACER													268
264	EXISTING GROUND PROFILE PROPOSED GROUND PROFILE 2+853.858 262.450 2+890.624 262.80 2.3 m MIN. COVER 35.8 m - 400 mm DIP CL52 EXISTING WATERMAIN													264
260	PROPOSED STORM SEWER PROPOSED SANITARY SEWER													260
256	2+740 2+780 2+820 2+860 2+900 2+940 2+980 3+020 3+060													256

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	12/30/99	ADDED NOTE "SALVAGE HYDRANT AND VALVE"
2	JUL	4/17/00	MOD. REQ. #10: MODIFIED STUB AT NORTHDAL BLVD
3	JUL	5/19/00	MOD. REQ. #109: DELETED 200 mm WM STUB & VALVE
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: JRJ	DESIGN BY: KPK/JJL
CHKD. BY: PBD/KPK	DWG. NAME: 242WAT06	DATE: NOVEMBER 5, 1999

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

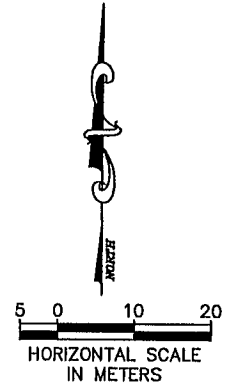
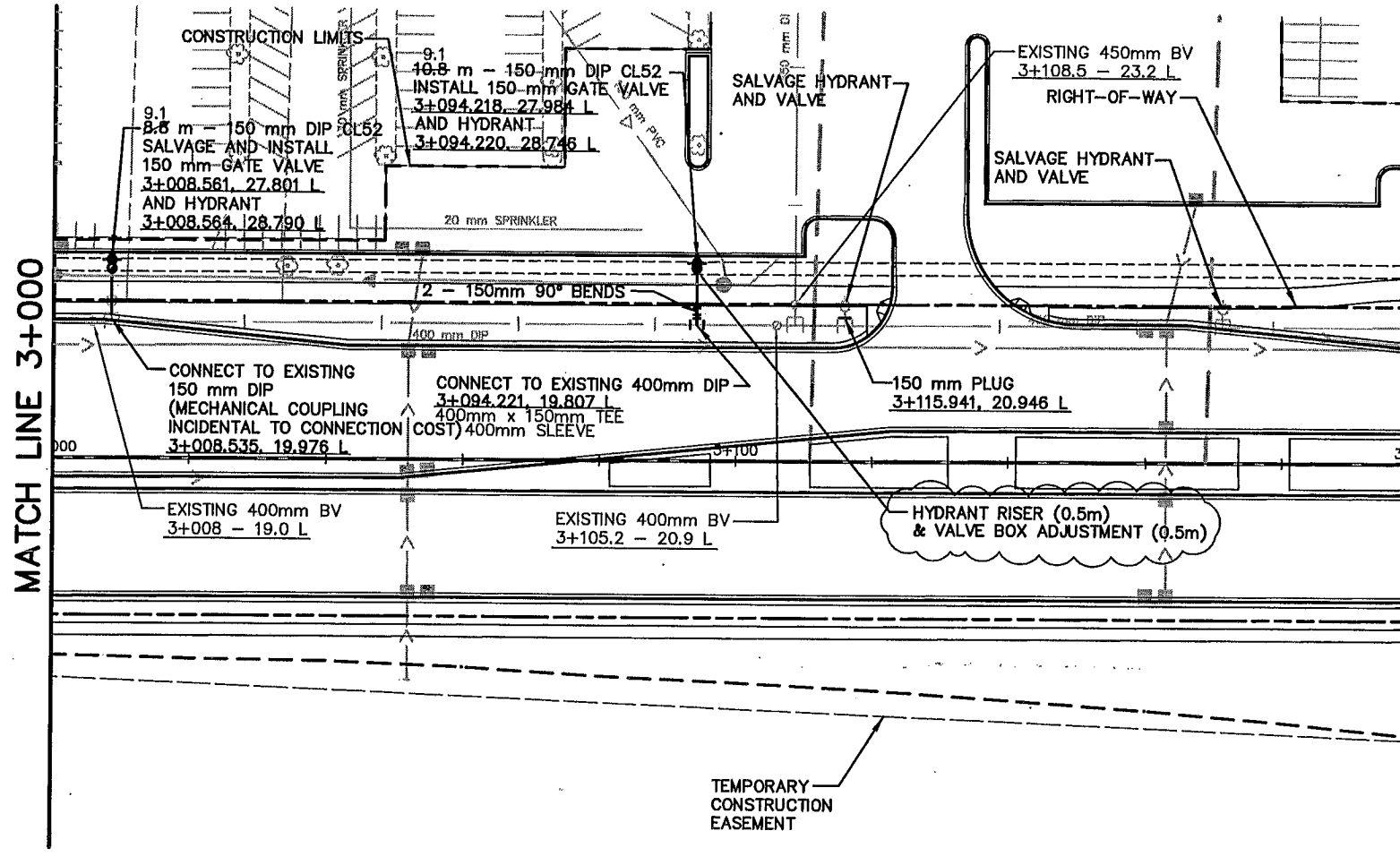
Kevin P. Kull
DATE: 11/5/99 MINN. REG. NO. 23211

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)	SHEET NO.
S.A.P. 02 - 614 - 19	225
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 138 - 02	
S.A.P. 114 - 127 - 02	539

PBOX
 I2E-TXT
 STRIPE
 I2CLM-W
 I2-PUT
 I2PLNW
 I2-A1 IW
 A1
 I2
 I2MHEG
 I2MHETO
 I2-EUT

PLOT DATE: Apr 04 3:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889\PLAN_S\...GRING\242wat08.dwg

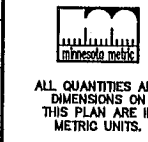


AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

275	275	266.32 265.962	266.28 266.092	266.26 266.241	266.26 266.512	266.31 266.920	266.42 267.446	266.58 267.986	266.79 268.526	267.05 269.066	267.42 269.576	267.70 270.037	275
271	271	WATERMAIN: CLASS 52 DIP PIPE - CLOW VALVES, GV & BV - MULLER CLOW WATEROUS VALVE BOXES - TYLER DIP FITTINGS - TYLER/UNION MEGALUGS - EBBA HYDRANTS - WATEROUS PACER											271
267	267	MATCH LINE 3+000											267
263	263	MATCH LINE 3+000											263
259	259	MATCH LINE 3+000											259
		2+920	2+960	3+000	3+040	3+080	3+120	3+160	3+200	2 OF 8			

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	3/21/00	REVISED LOCATION OF HYDRANT NEAR MENARDS ENTRANCE. ADDED WET TAP NOTE
2	JUL	4/19/00	MOD. REQ. #14: MODIFY HYD. LOCATION, ADD 90° BENDS
3	JUL	5/01/00	MOD. REQ. #14: MOVE ONE AND ELIMATE ONE HYDRANT
4	JUL	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: JUL
CHKED BY: PBD/KPK	DWG. NAME: 242WAT08	
DATE: NOVEMBER 5, 1999		



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



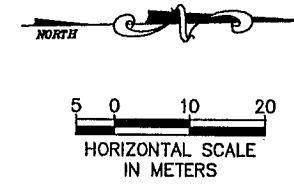
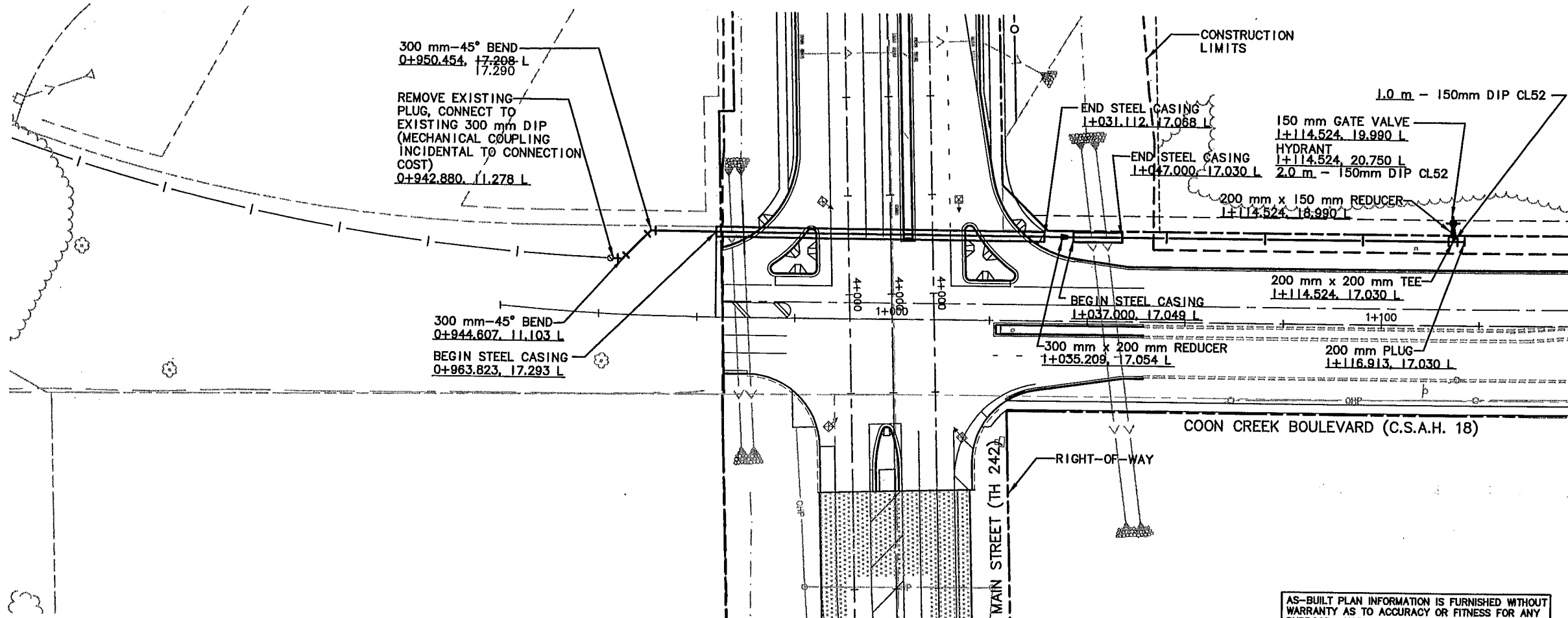
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kiehl
 DATE: 11/5/99 MINN. REG. NO. 23211

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

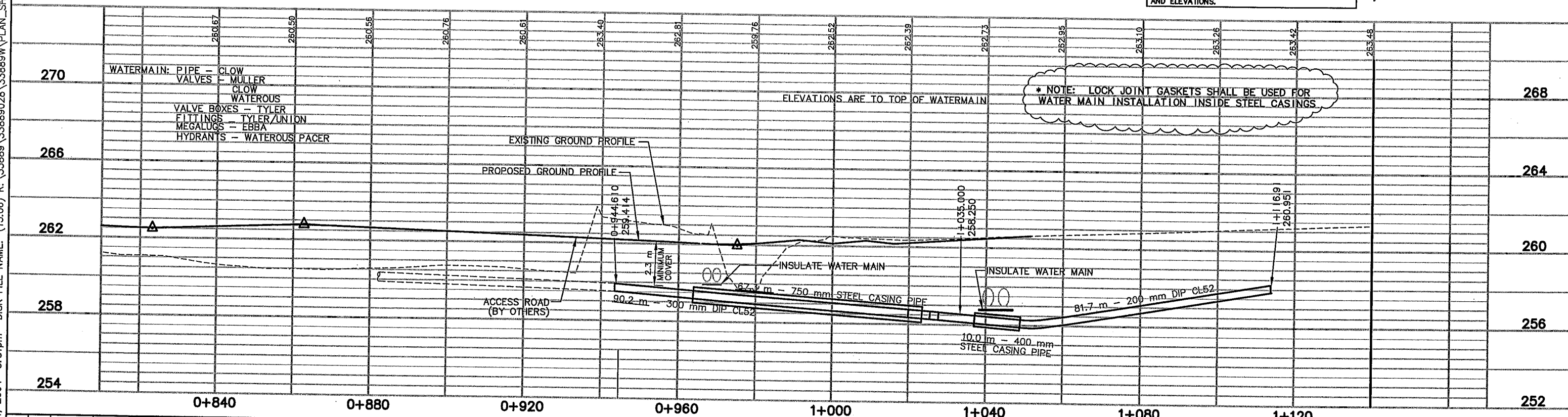
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

SHEET NO.
226
539

12PLNZA
12-ALI
12-PUT
12-PBOX
12-DRN
12-CLM
12-ALI W
12-
12-
12MHVEG
12MHETO
12-EUT



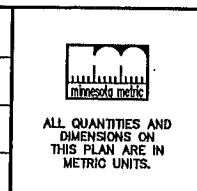
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PLOT DATE: Apr 09, 2004 3:31pm DISK FILE NAME: (15.06) R: \33889\33889028\33889\PLAN_Sht\ENGRING\242wat02.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JJL	9/13/00	MOD. REQ. #49: ADDED NOTE FOR LOCK JOINT PIPE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
JRJ
DESIGN BY:
JJL
CHKD. BY:
KPK
DWG. NAME:
242WAT02
DATE:
NOVEMBER 5, 1999



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BRW GROUP
A DAMES & MOORE GROUP COMPANY
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. Kullb
DATE: 11/5/99 MINN. REG. NO. 23211

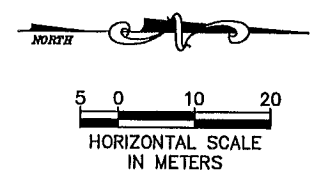
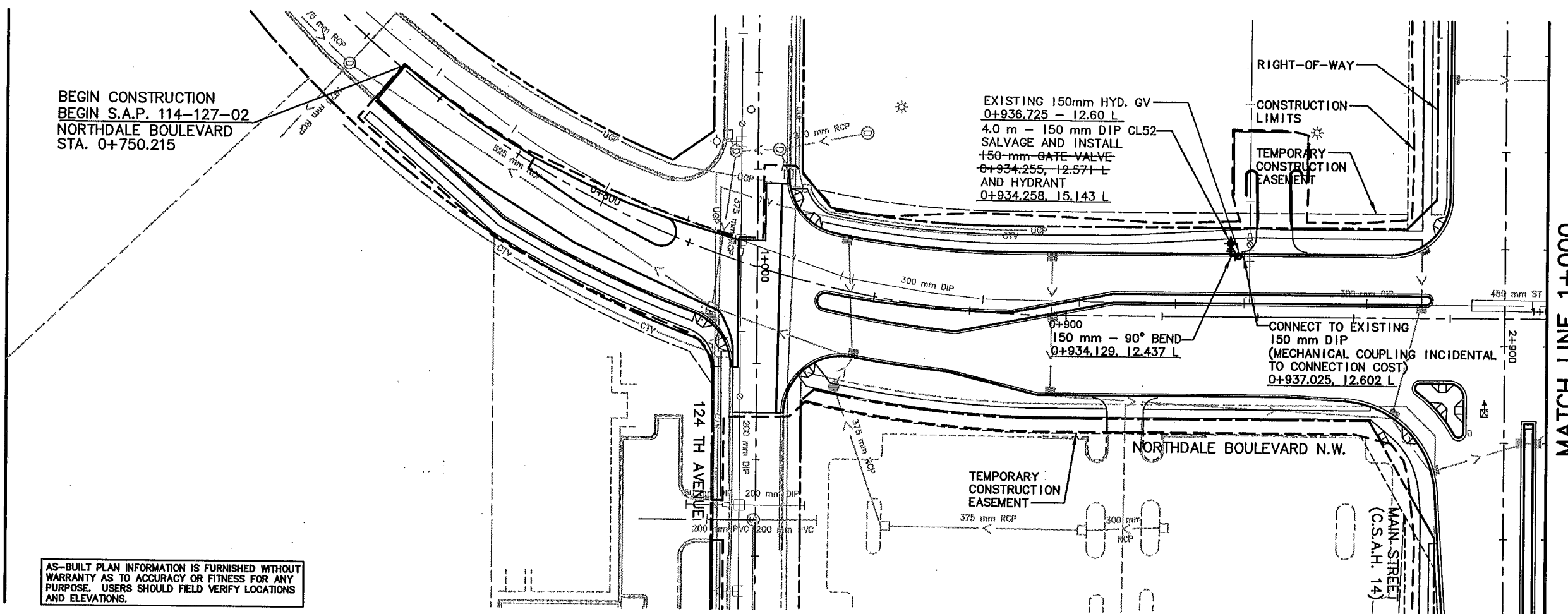
**MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD (C.S.A.H. 18)
WATER MAIN
STATION 0+020.000 TO STATION 1+240.000**

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

3 OF 8
SHEET NO.
227
539

CONSTANTS
 /_STRIP
 42E-TXT
 42CLM-W
 DALEPRF
 42PLNW
 42-PUT
 42-PLUM
 42
 42
 42MHLTO
 42-EUT



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272	265.09	265.04	264.97	264.86	264.77	264.58	264.72	264.51	264.60 264.630	264.61 264.740	264.74 264.850	264.83 264.990	264.93 265.070	265.05 265.162	265.42 265.129	265.06 265.028	265.51 265.101	272												
268	WATERMAIN: CLASS 52 DIP PIPE - CLOW VALVES, GV & BV - MULLER CLOW WATEROUS VALVE BOXES - TYLER DIP FITTINGS - TYLER/UNION MEGALUGS - EBBA HYDRANTS - WATEROUS PACER																	268												
264																		264												
260																		260												
256																		256												
		0+720			0+740			0+760			0+800			0+840			0+880			0+920			0+960			1+000			4 OF 8	

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

DESIGN FILE: 33889028	DRAWN BY: JRJ	DESIGN BY: JUL
CHKD. BY: KPK	DWG. NAME: 242WAT05	
DATE: NOVEMBER 5, 1999		

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

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Kevin P. Kuhl
 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

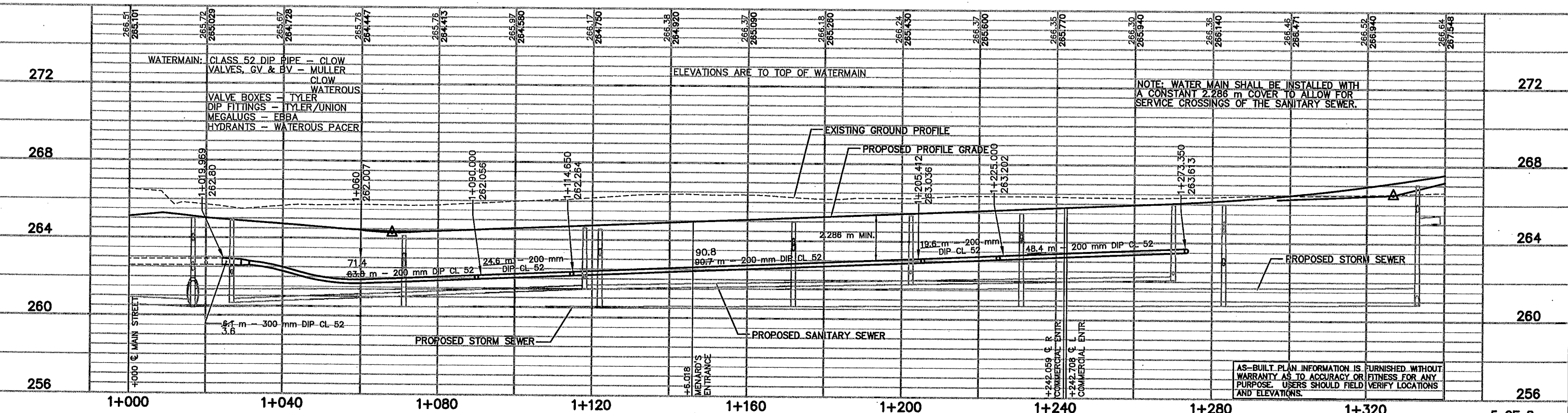
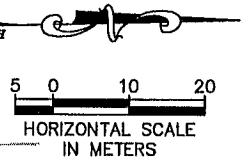
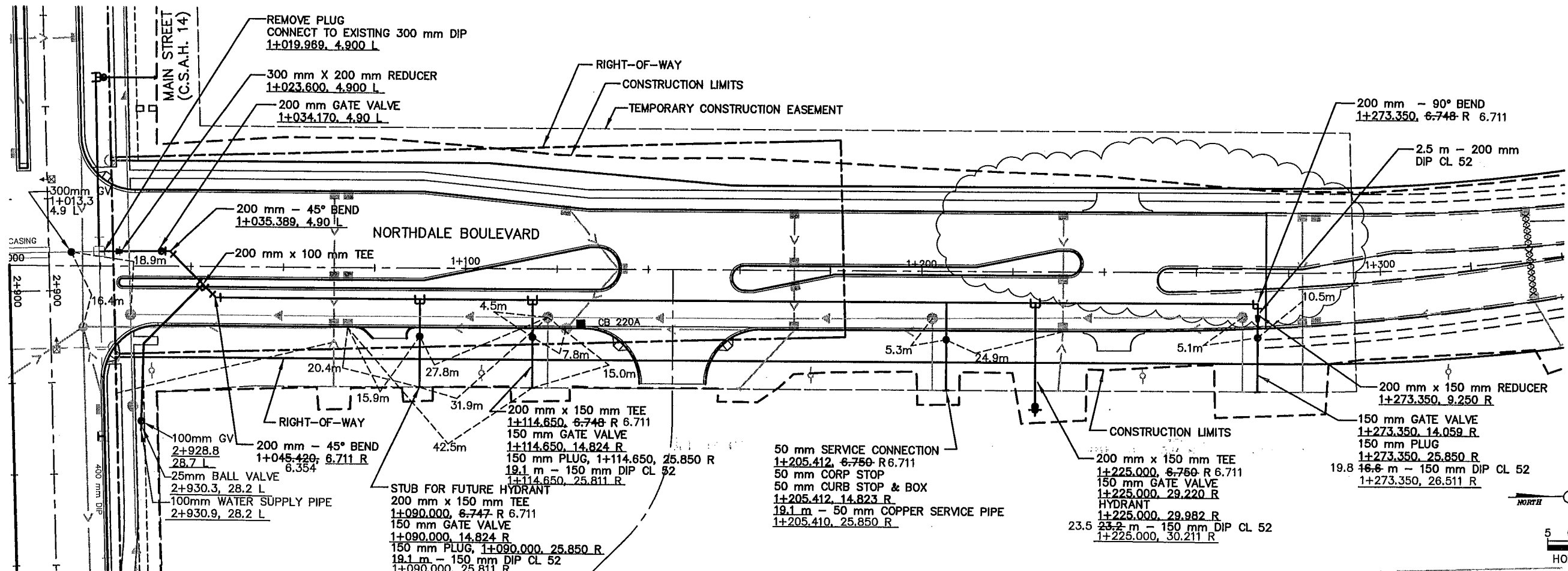
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

SHEET NO.
228
539

PLOT DATE: Apr 04 3:33pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN...NGRING\242wat05.dwg

42-ALIW
 42-PUT
 42-ESUM
 42-VEG
 42

PLOT DATE: Apr 04 3:34pm DISK FILE NAME: (15.06) R:\33889\33889028\33889\PLAN\..._NGRING\242wat07.DWG



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	2/26/00	ADDEND CHANGED STEEL CASING DIAMETER TO mm
2	JUL	4/18/00	MOD. REQ. #10: ADDED WATERMAIN
3	JUL	5/25/00	MOD. REQ. #10B: ADDED WATERMAIN TO NORTHDAL BLVD
4	PMJ	9/28/00	MOD. REQ. #69: REVISED MEDIAN, ADDED DRIVEWAY
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
 33889028
 DRAWN BY:
 JRJ
 DESIGN BY:
 JUL
 CHECKED BY:
 KPK
 DWG. NAME:
 242WAT07
 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. Kullb
 DATE: 11/5/99 MINN. REG. NO. 23211

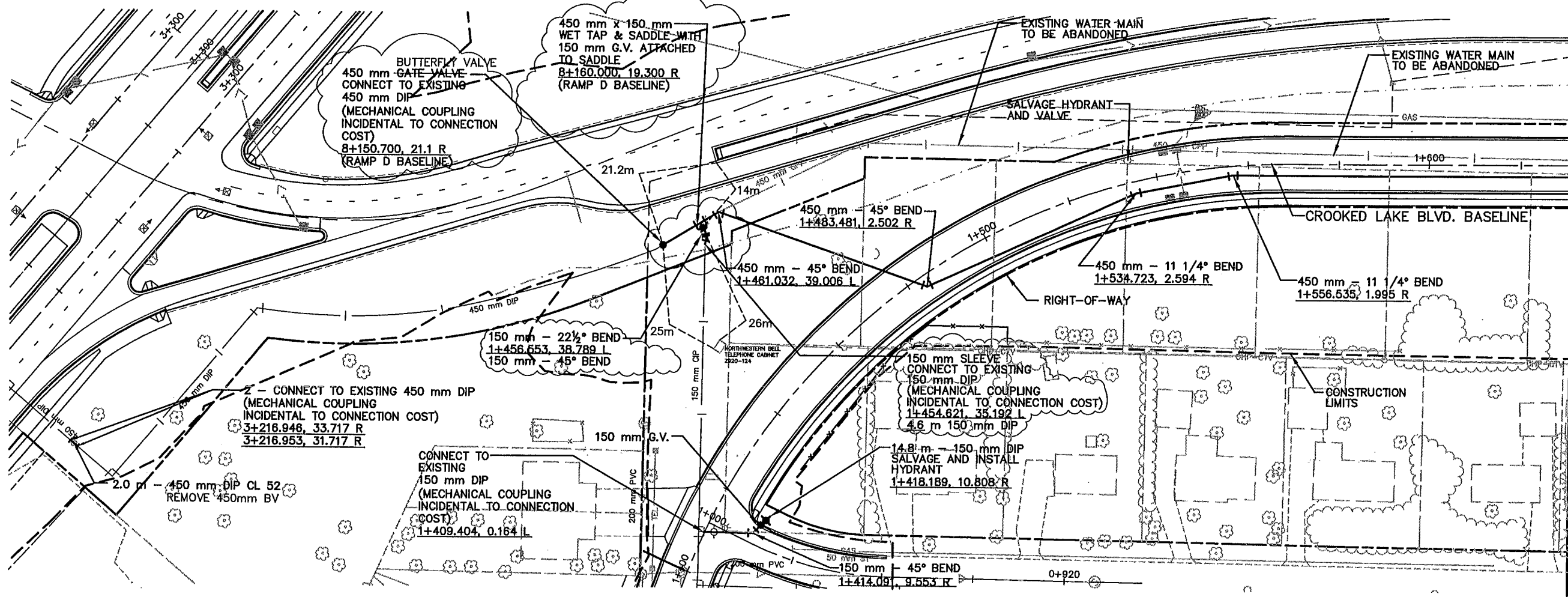
MAIN STREET/T.H. 242 RECONSTRUCTION
NORTHDAL BOULEVARD N.W.
 WATER MAIN
 STATION 1+000.000 TO STATION 1+340.000
 CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	229
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

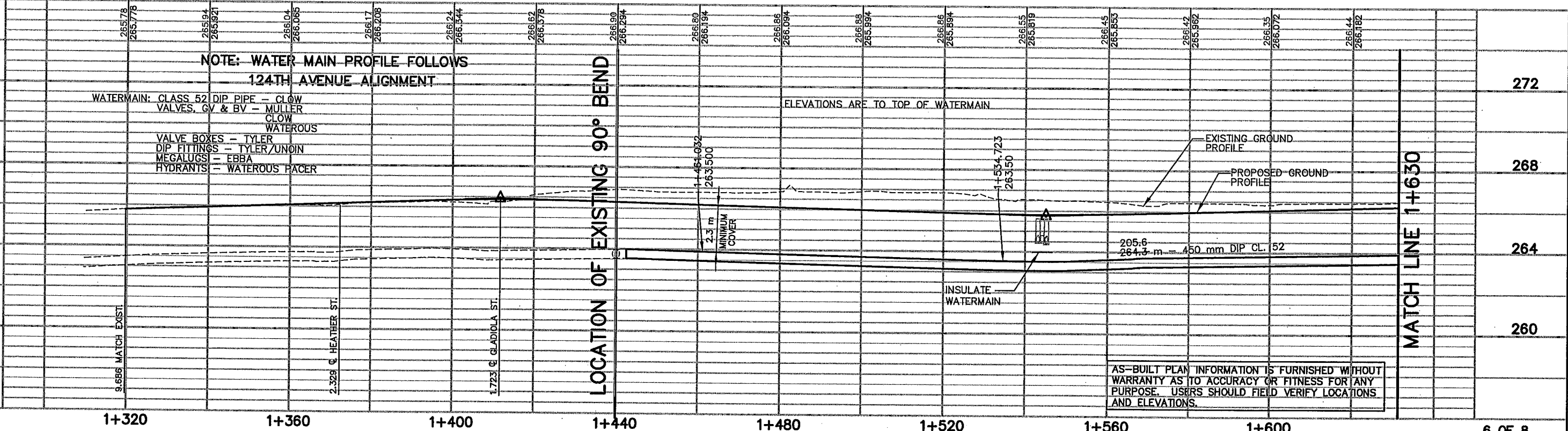
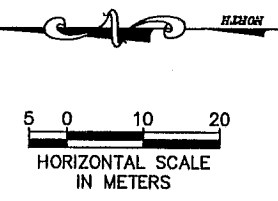
5 OF 8

SAPBOX
242NHVEG
242E_DRN
242CLM-W
242E-PLN
124-PRF
242-PUT
242PLNW
24'-LW
2'-
2'-
24'-

PLOT DATE: Apr 04 3:32pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W_PLAN_SHT-ENGRING\242wat03.dwg



MATCH LINE 1+630



MATCH LINE 1+630

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	12/30/99	ADDED NOTE "SALVAGE HYDRANT AND VALVE"
2	JUL	5/01/00	MOD. REQ. #14: MOD. WATER MAIN DESIGN IN C.L. BLVD
3	JUL	8/10/00	MOD. REQ. #57: REMOVED VALVE AND ADDED 450mm DIP
4	JUL	9/20/00	MOD. REQ. #68: MODIFY WATER MAIN
5	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: JRJ	DESIGN BY: JUL
CHKD. BY: KPK	DWG. NAME: 242WAT03	
DATE: NOVEMBER 5, 1999		



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

MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BLVD. N.W.
WATER MAIN
STATION 1+520.000 TO STATION 1+700.000

CITY PROJECT 98-20

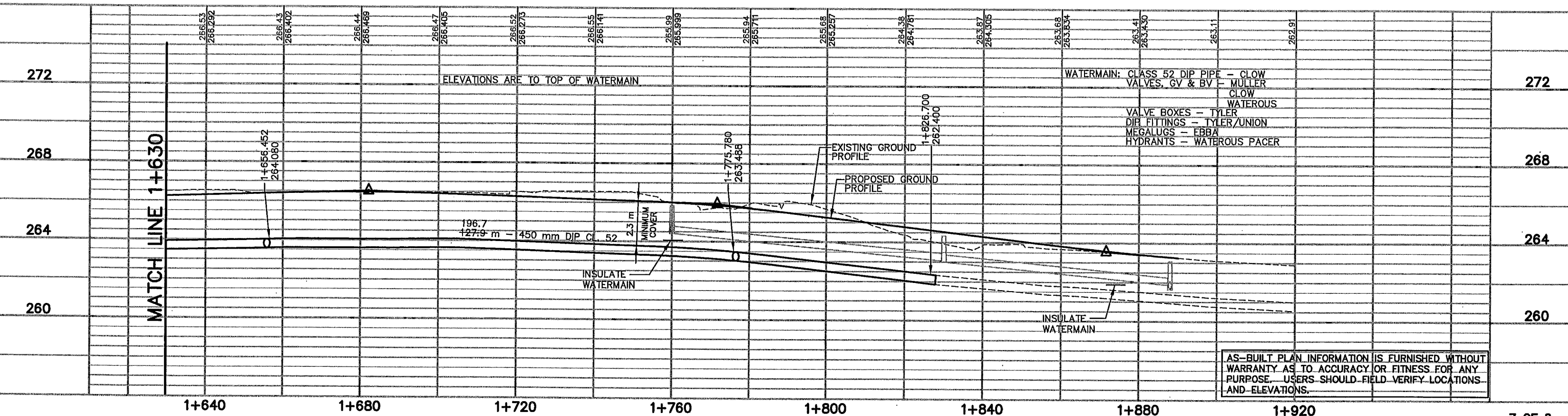
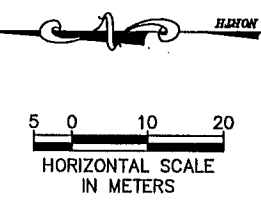
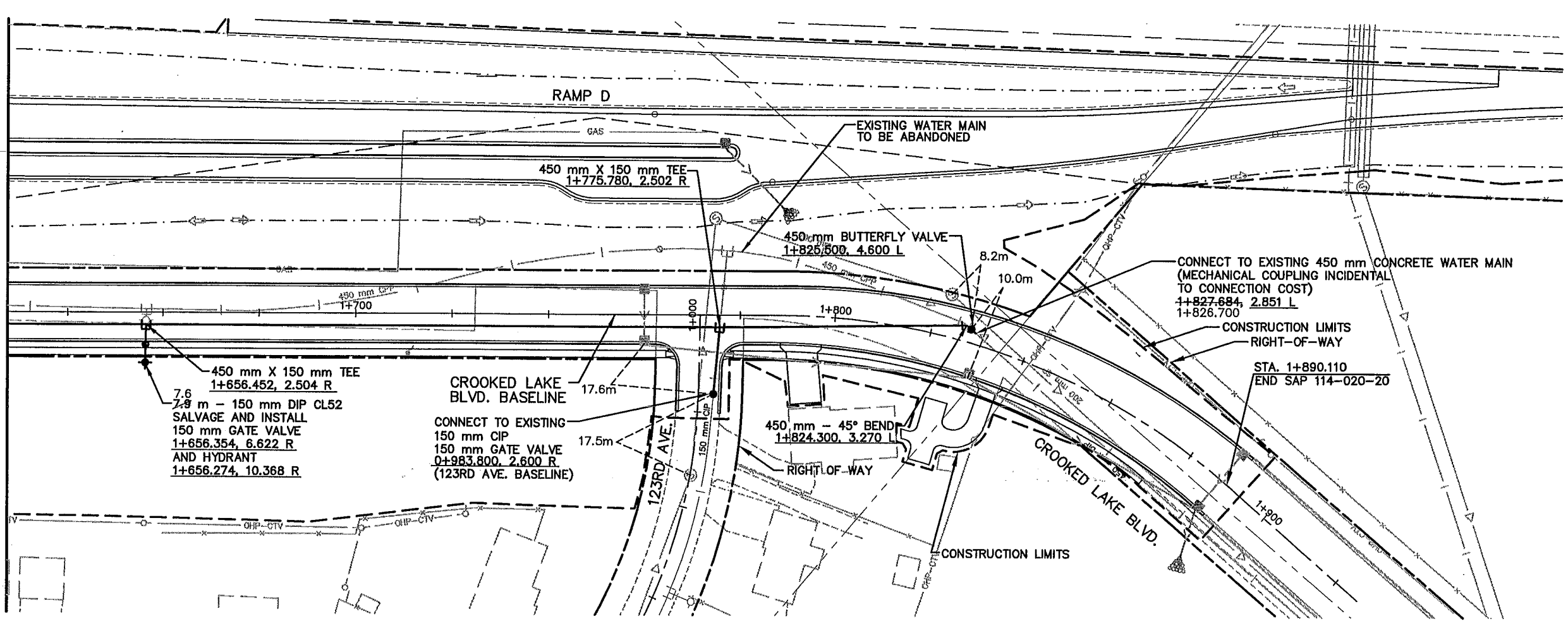
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	230
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

42E-CLM
24-PRF
APBOX
42E_DRN
42CLM-W
42E-PLN
42-PIIT
42
42-LUM
42MHETO
42-EUT

PLOT DATE: Apr 04 2004 3:32pm DISK FILE NAME: (15.06) R:\33889\33889028\33889WPLAN_SHT-ENGRING\242wat04.dwg

MATCH LINE 1+630

MATCH LINE 1+630



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD
2	JUL	5/01/00	MOD. REQ. #14: MOD. WATER MAIN DESIGN IN C.L. BLVD
3	JUL	8/10/00	MOD. REQ. #37: REMOVED VALVE, MOD. VIEWPORTS
4	TSR	2/20/04	AS-BUILT

DESIGN FILE: 33889028
 DRAWN BY: JRJ
 DESIGN BY: JUL
 CHKD. BY: KPK
 DWG. NAME: 242WAT04
 DATE: NOVEMBER 5, 1999



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

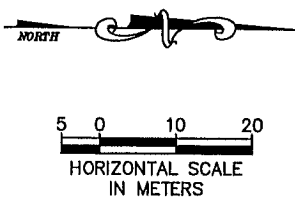
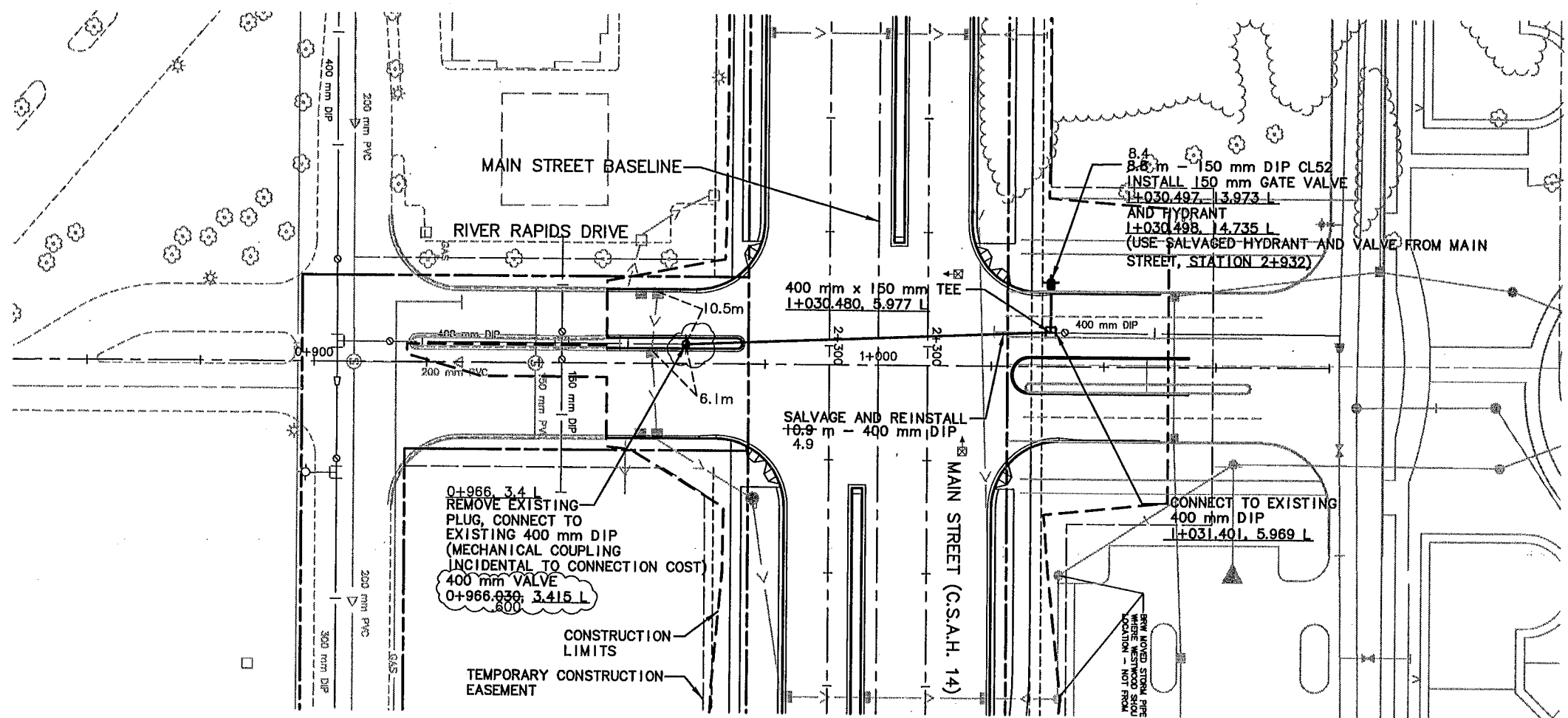
MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BLVD. N.W.
 WATER MAIN
 STA. 1+700.000 TO STA. 1+920.000
 CITY PROJECT 98-20

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

7 OF 8
 SHEET NO. 231
 539

142E-TXT
 V_STRIPE
 142CLM-W
 142CONSTNTS
 142OSE-PRF
 142-PUT
 142PLNW
 142-ESUM
 147
 141
 142N...
 142-EUT

PLOT DATE: Apr 004 3:30pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_1_S...NGRING\242wat01.dwg



272	264.57	264.86	265.31	265.44	265.68	265.71	265.78	265.75	266.54	266.33	267.18	265.89	266.49	265.33	265.58	265.293	265.18	265.063	265.07	265.17	272
<p>WATERMAIN: CLASS 52 DIP PIPE - CLOW VALVES, GV & BV - MULLER CLOW WATEROUS VALVE BOXES - TYLER DIP FITTINGS - TYLER/UNION MEGALUGS - EBBA HYDRANTS - WATEROUS PACER</p> <p>ELEVATIONS ARE TO TOP OF WATERMAIN</p> <p>EXISTING GROUND PROFILE PROPOSED GROUND PROFILE</p> <p>INSULATE WATERMAIN</p> <p>MINIMUM COVER</p> <p>AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.</p>																					
268																				268	
264																				264	
260																				260	
<p>0+880 0+920 0+960 1+000 1+040 1+080</p>																					

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	12/30/99	ADDED NOTE "USE SALVAGED HYDRANT AND VALVE..."
2	JUL	5/5/00	MOD. REQ. #24: MOD. HYD. LOCATION, MOD. ALIGNMENT
3	JUL	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:
 JUL
 CHKD. BY:
 KPK
 DWG. NAME:
 242WAT01
 DATE:
 NOVEMBER 5, 1999



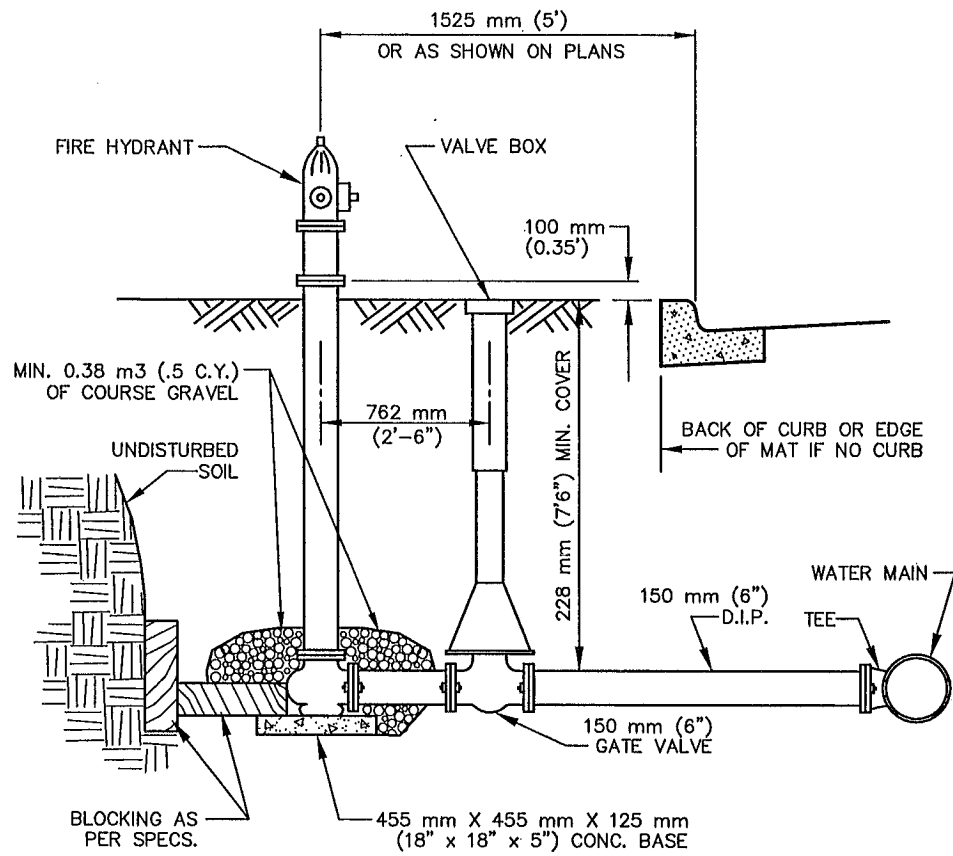
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kuehl
 DATE: 11/5/99 MINN. REG. NO. 23211

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

8 OF 8
 SHEET NO.
232
539

PLOT DATE: Jan 11 1:09pm
 DISK FILE NAME: (14.01) R:\33889\33889028\33889W\PLAN_S\CRING\242WDET6.dwg
 33889\33889028\33889W\PLAN_S

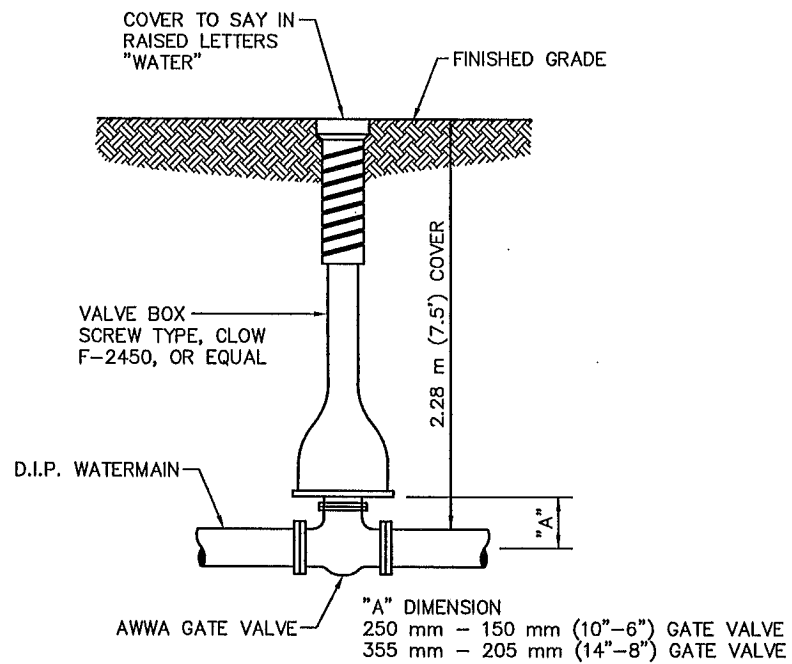


NOTES:

- 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.

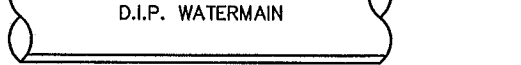
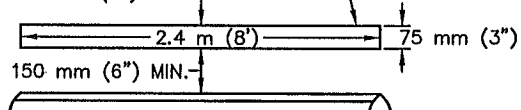
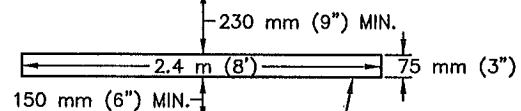
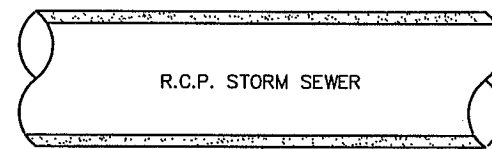
TYPICAL HYDRANT INSTALLATION

NOT TO SCALE



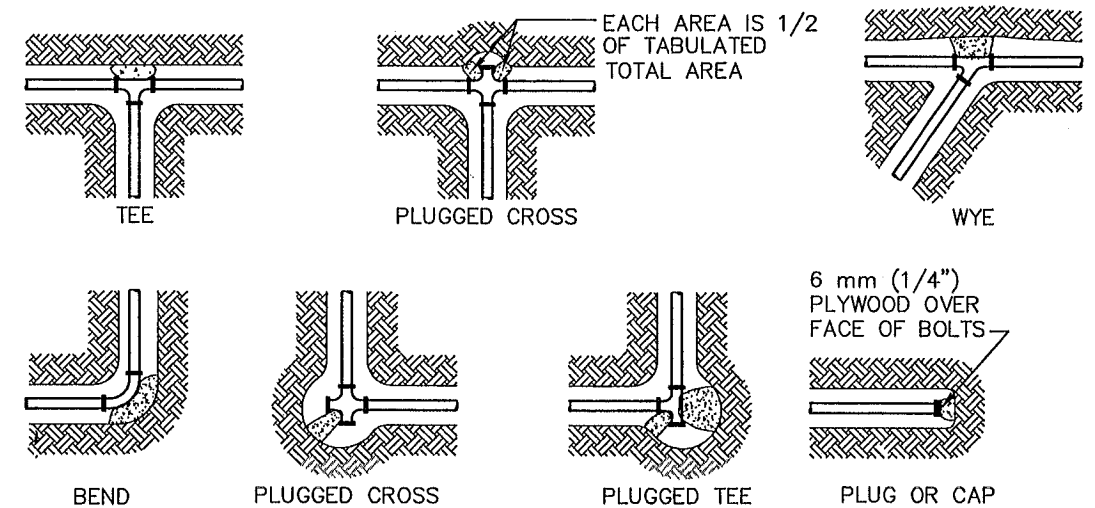
GATE VALVE BOX

NOT TO SCALE



TYPICAL WATER MAIN INSULATION

NOT TO SCALE



NOMINAL FITTING SIZE, mm	TEE, WYE, PLUG OR CAP m2	90° BEND PLUGGED CROSS m2	TEE PLUGGED ON RUN		45° BEND m2	22 1/2' BEND m2	11 1/4' BEND m2
			A ¹	A ²			
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	DESIGN FILE:
1	IKR	12/30/99	ADDED METRIC DIMENSIONS	33889028
2	TSR	2/27/04	AS-BUILT DRAWING	

DESIGN BY: PMJ
 DESIGN BY: KPK
 CHKD. BY: PBD
 DWG. NAME: 242WDET6
 DATE: NOVEMBER 5, 1999

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

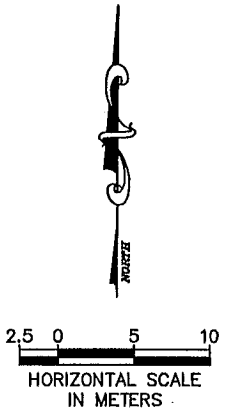
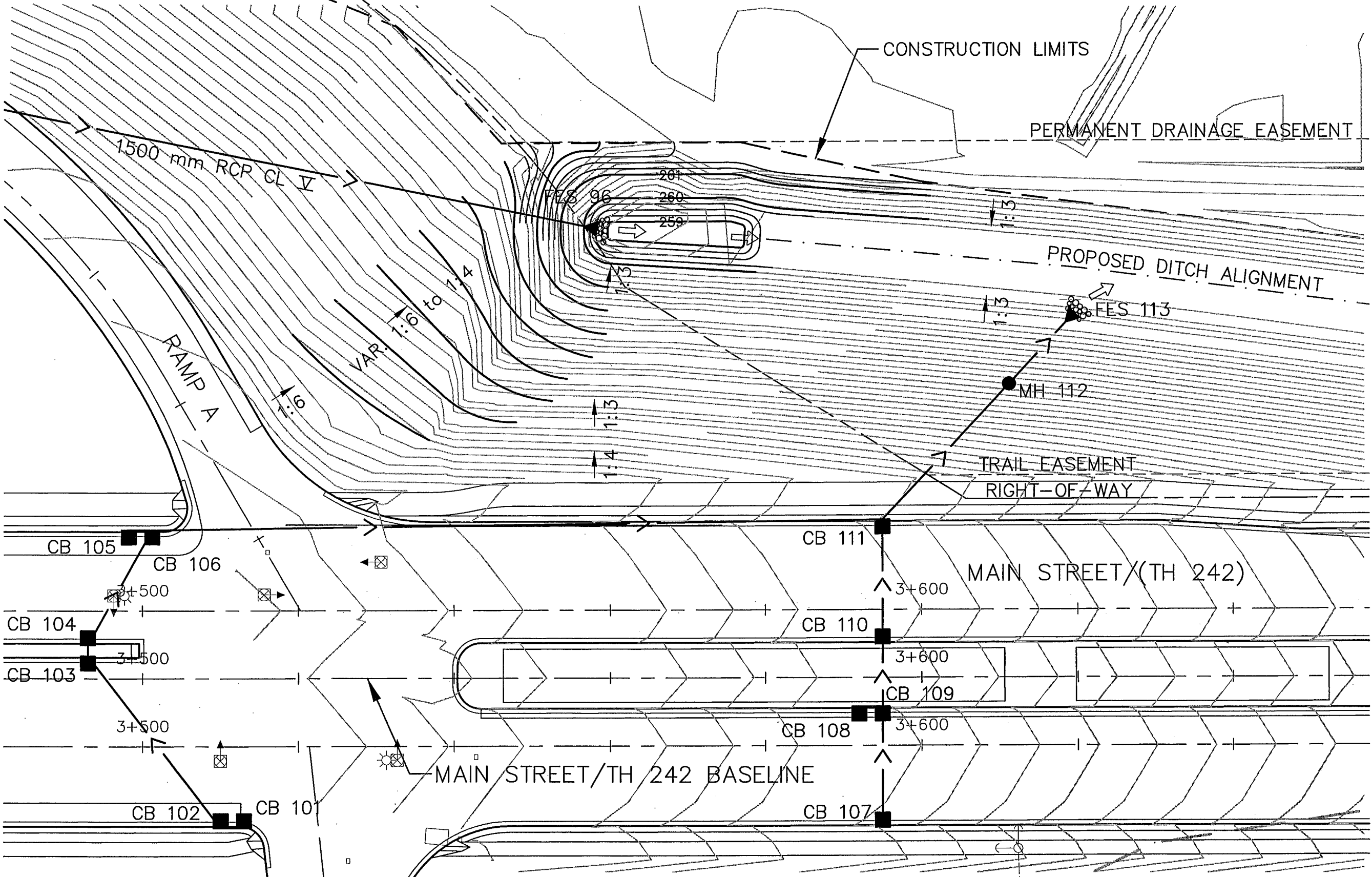
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P. Kuhl
 DATE: 11/5/99 MINN. REG. NO. 23211

**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

1 OF 1
 SHEET NO. 233
 539

42-EUT
 TILLPND
 42MHETO
 APBOX
 42-WET
 42-FSUM
 42
 42E-AL I
 42E-CLM



PLOT DATE: May 03, 2000 11:44am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH-2edr25.dwg

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	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/JUL
 CHKD. BY:
 KPK/PBD
 DWG. NAME:
 242EDR25
 DATE:
 NOVEMBER 5, 1999



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

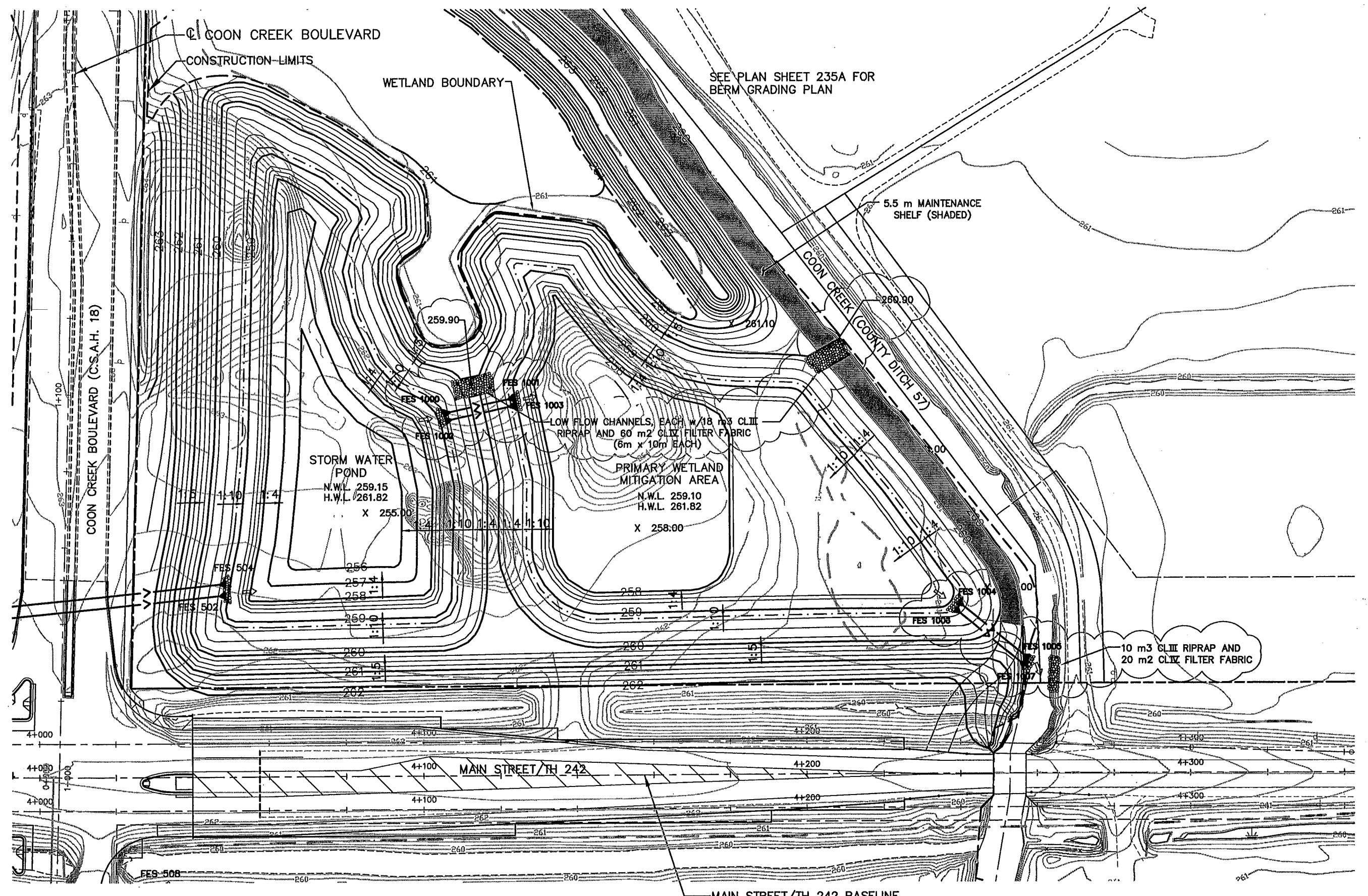
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
 GRADING PLAN
 STILLING POND
 CITY PROJECT 98-20

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

1 OF 4
 SHEET NO.
234
539

osp-pond
242PLN2A
242MHETO
242MHECN
SAPBOX
242-WET
24
242E_JRN
242E-ALI
242E-CLM

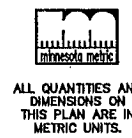
PLOT DATE: Jul 16, 1999 1:02pm
DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SHT\edr22.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	REVISED POND GRADING ON NORTH AND NORTHEAST SIDE
2	JLL	5/6/00	MOD. REQ. #19: MOD. NE CORNER OF POND, ADDED BERM
3	JLL	07/17/01	MOD. REQ. #74: MODIFY GRADING PLAN, ADD CULVERTS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 3388902B	DESIGN BY: KPK/JLL
DRAWN BY: PJM	CHKD. BY: KPK/PBD
DWG. NAME: 242EDR22	DATE: NOVEMBER 5, 1999



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

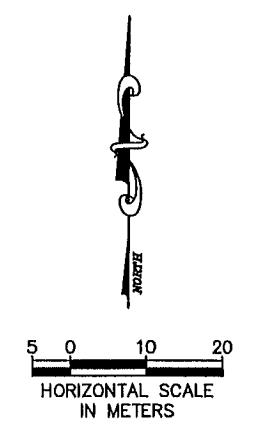
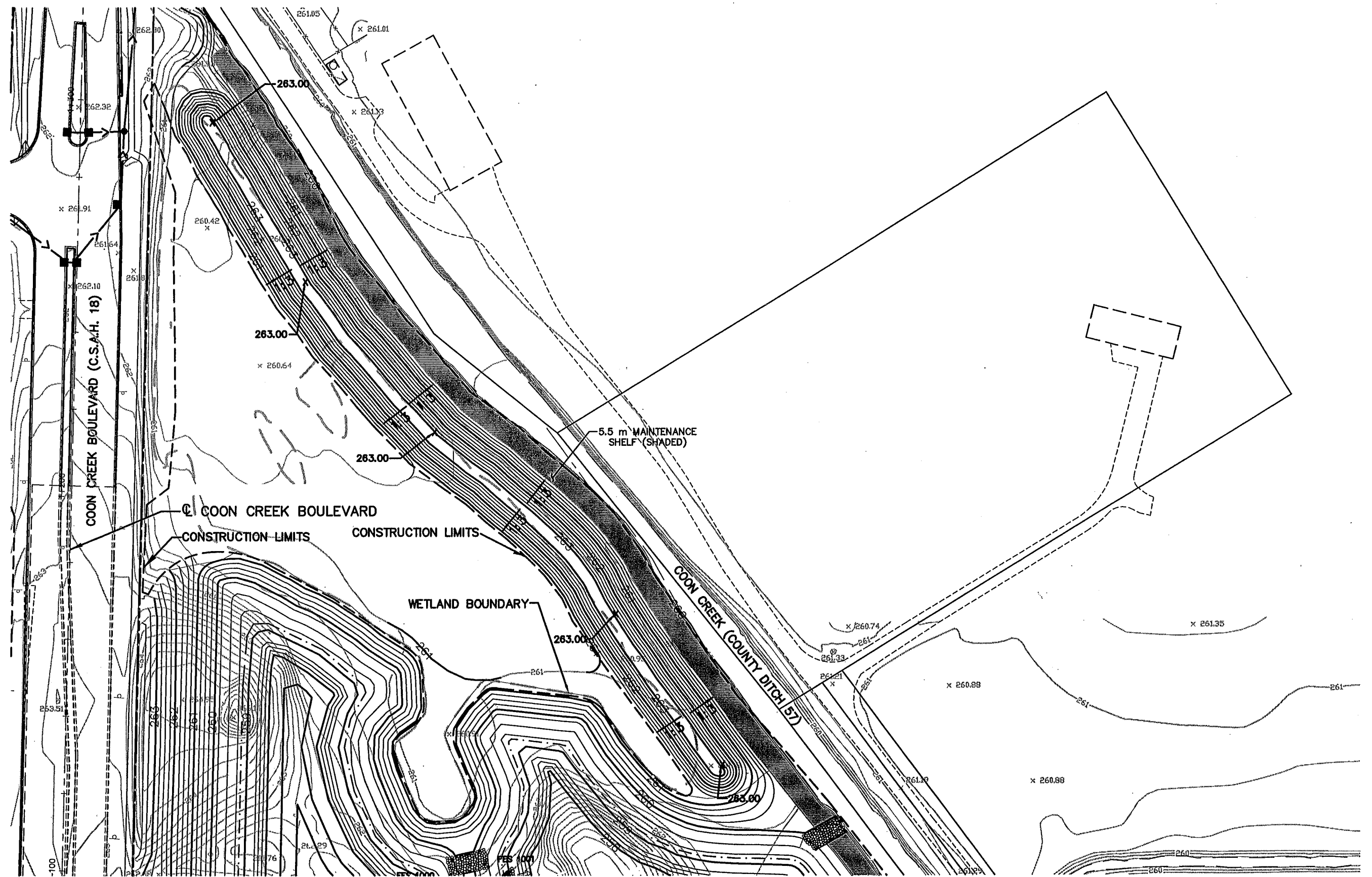
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P. Kullb
DATE: 11/5/99 MINN. REG. NO. 23211

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)	SHEET NO.
S.A.P. 02 - 614 - 19	235
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

osp-pond
242PLN2A
242MHETO
242MHECN
SAPBOX
242-WET
24
24
242LURN
242E-AL
242E-CLM

PLOT DATE: Jul 16, 2000 1:04pm DISK FILE NAME: (15.0) R:\33889\33889028\33889E\PLAN-SH\redr23.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	5/5/00	MOD. REQ. #19: DESIGNED BERM NORTH OF POND
2	JUL	07/17/01	MOD. REQ. #74: MODIFIED GRADING PLAN

DESIGN FILE: 33889028	
DRAWN BY: PJM/JUL	DESIGN BY: JUL
CHKD. BY: KPK	DWG. NAME: 242EDR23
DATE: MAY 5, 2000	



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. Kullb
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

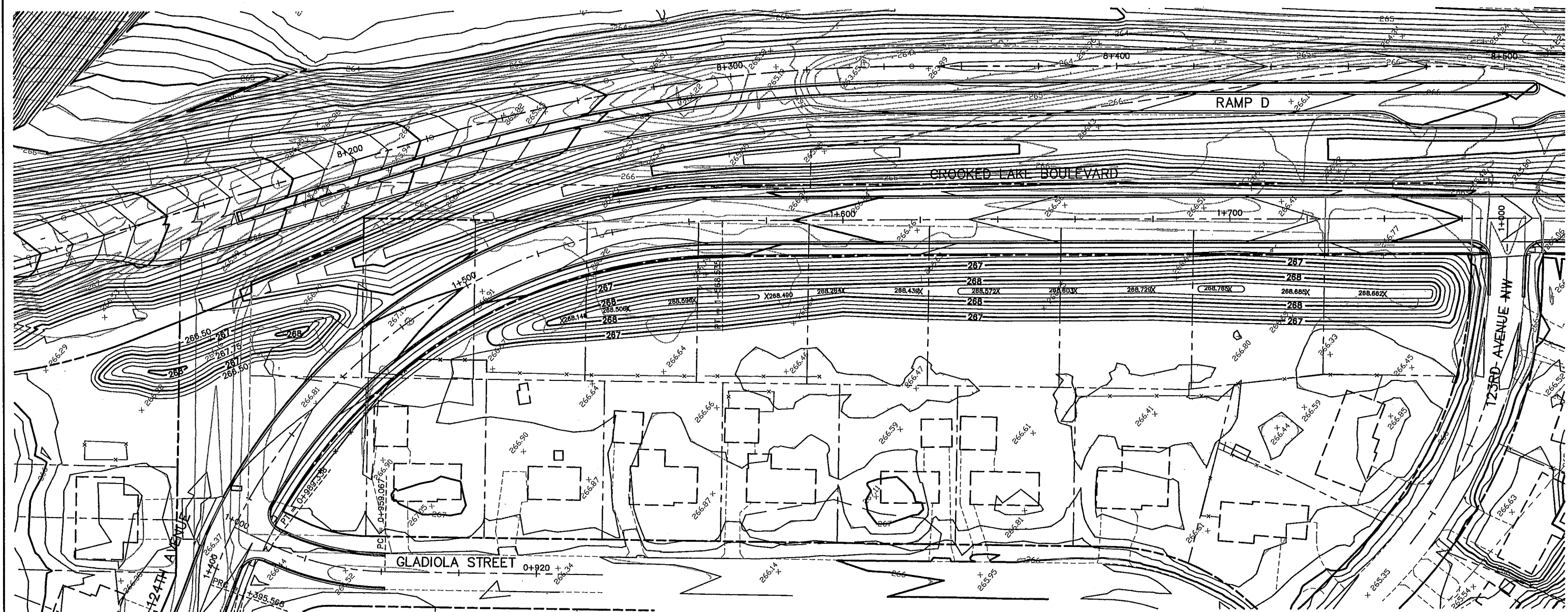
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO.
235A

539

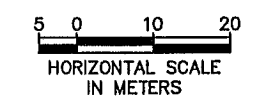
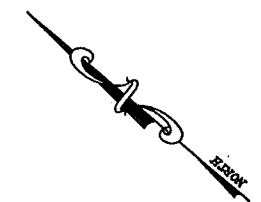
12-ESUM
12MHECN
12PRCON
12E-AL1
12E-PLN
12PLNW
12-AL1W
12'
AF

PLOT DATE: Nov 2, 2000 2:58pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\3W\PLAN_SHT\ENGRING\CRKLG.DWG



LEGEND:

- PROPOSED CONTOUR ——— 268 ———
- EXISTING CONTOUR ——— 266 ———



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	ADDED RAMP D PATROL PAD, MODIFIED GRADING
2	JL	5/5/00	MOD. REQ. #19: ROUND BERM, CHANG TO SHEET 4 OF 4
3	JL	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:

CHKD. BY:
PBD/KPK
DWG. NAME:
CRKLG.DWG
DATE:
NOVEMBER 5, 1999

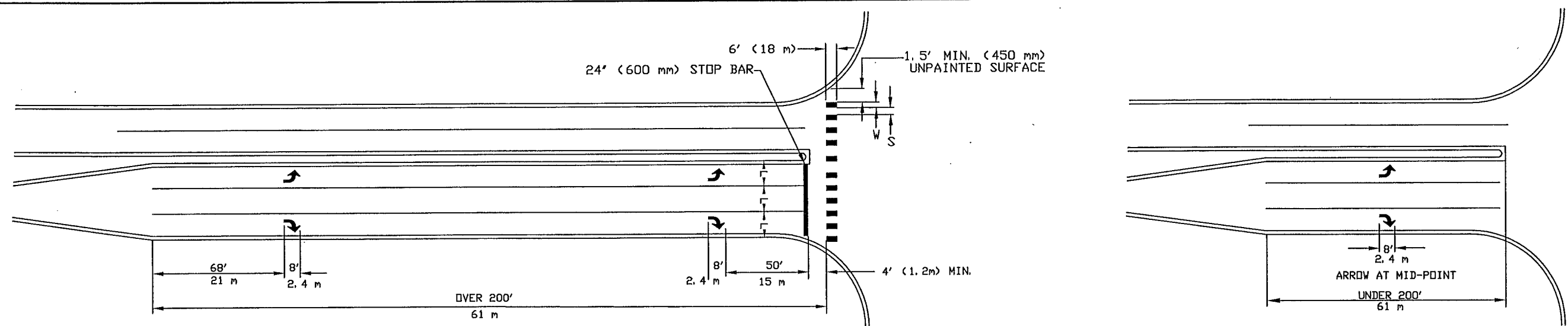


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Kevin P. Kull
DATE: 11/5/99 MINN. REG. NO. 23211

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

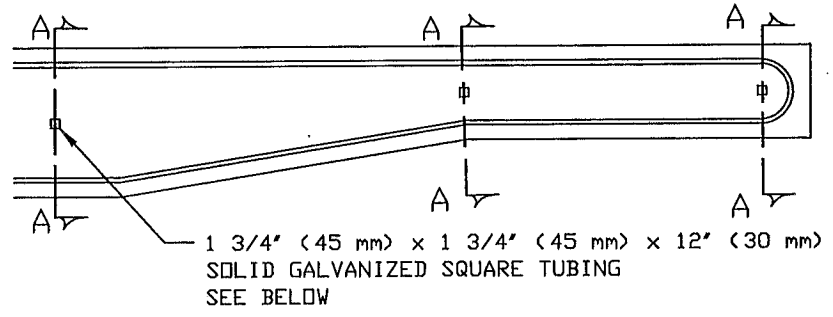
SHEET NO.
236
539



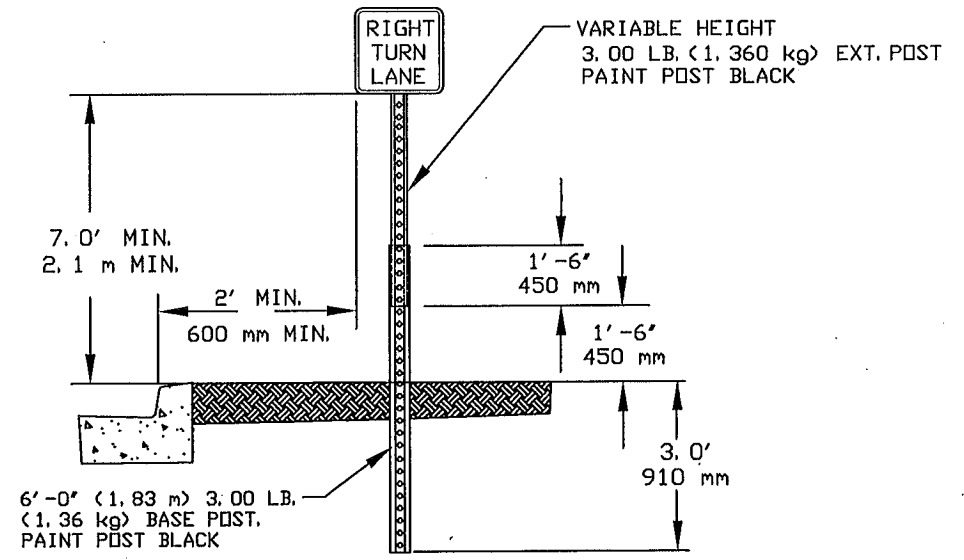
(L)	(W)	(S)
WIDTH OF INSIDE LANE	WIDTH OF PAINTED AREAS	WIDTH OF SPACE
9'	2.0'	2.5'
10'	2.5'	2.5'
11'	2.5'	3.0'
12'	3.0'	3.0'
13'	3.0'	3.5'

- NOTES: CROSSWALKS:**
- PAINTED AREAS ARE TO BE CENTERED ON CENTER AND LANE LINES, EVEN IF INTERSECTION IS NOT ALIGNED.
 - LOCATION OF ZEBRA CROSSWALKS AND STOP BARS, SIGNAL LOOPS AND PED RAMPS ARE APPROXIMATE. FINAL LOCATIONS ARE TO BE DETERMINED AND FIELD VERIFIED DURING CONSTRUCTION BY THE FIELD ENGR.
 - ZEBRA CROSSWALKS ARE TO BE PARALLEL TO THE DRIVING LANE OR LANES, EVEN IF THE STREET IS ON AN ANGLE TO THE INTERSECTION.
 - 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.
 - ON TWO LANE STREETS, USE SPACING SHOWN FOR AN 11' (3.3 m) INSIDE LANE.

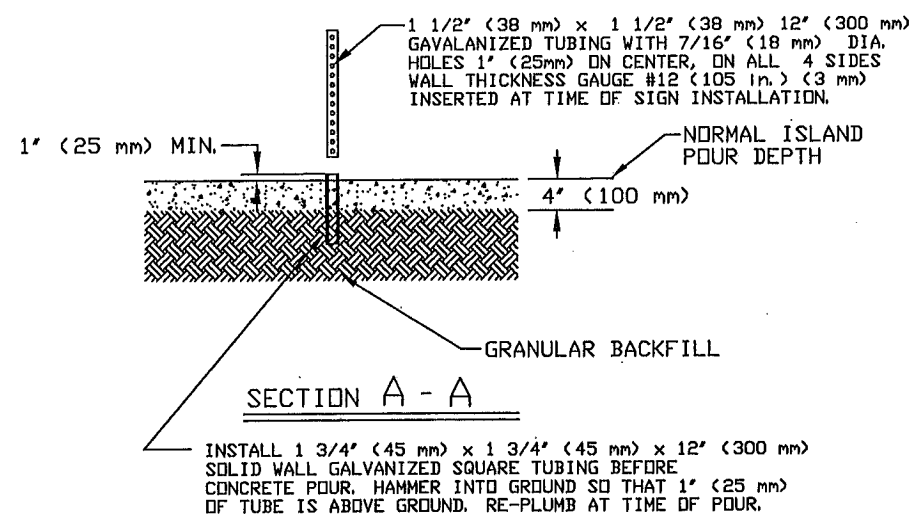
(L)	(W)	(S)
WIDTH OF INSIDE LANE	WIDTH OF PAINTED AREAS	WIDTH OF SPACE
2.7 m	600 mm	750 mm
3.0 m	750 mm	750 mm
3.3 m	750 mm	900 mm
3.6 m	900 mm	900 mm
4.0 m	900 mm	1100 mm



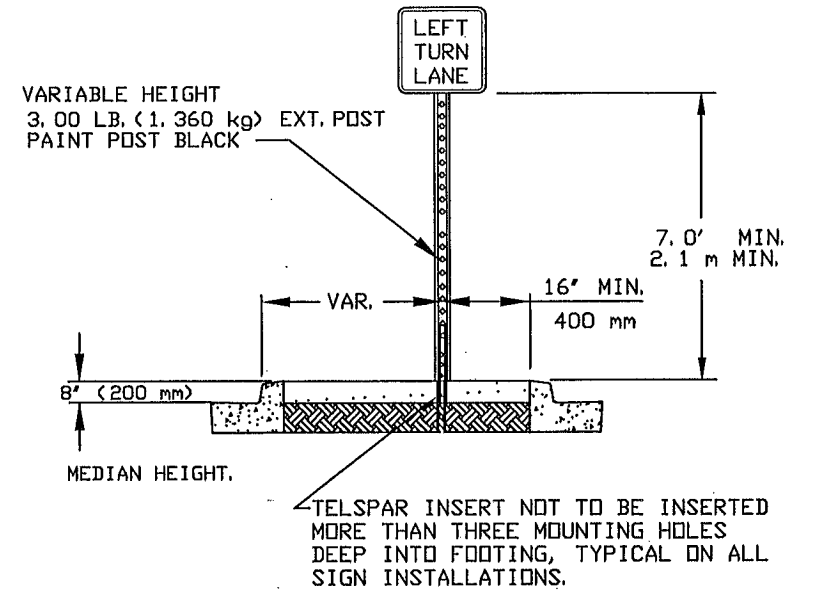
TYPICAL TURN LANE AND INTERSECTION STRIPING
 MAIN ST. (C.S.A.H. 14) and COON CREEK BLVD. (C.S.A.H. 18)



GROUND POST MOUNTED SIGN
TYPICAL INSTALLATION
 MAIN ST. (C.S.A.H. 14) and
 COON CREEK BLVD. (C.S.A.H. 18)



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



ISLAND MOUNT BREAK-AWAY SIGN
TYPICAL INSTALLATION
 MAIN ST. (C.S.A.H. 14) and
 COON CREEK BLVD. (C.S.A.H. 18)

PLOT DATE: Apr 04 3:10pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S\NORING\242SGDT2.dwg

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

DESIGN FILE: 33889028
 DRAWN BY: PMJ
 DESIGN BY: JIL/BDB
 CHKD. 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)

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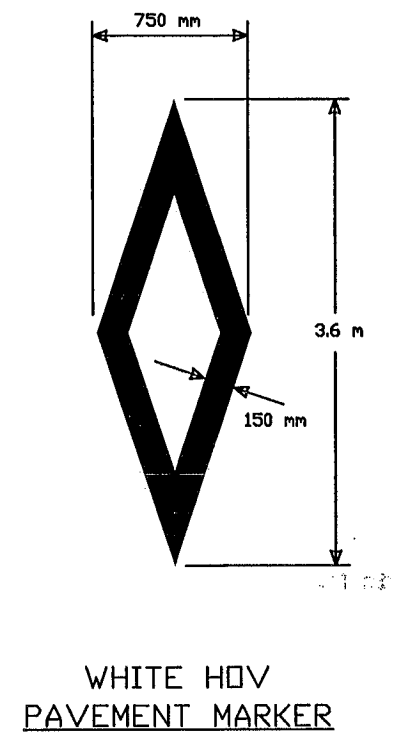
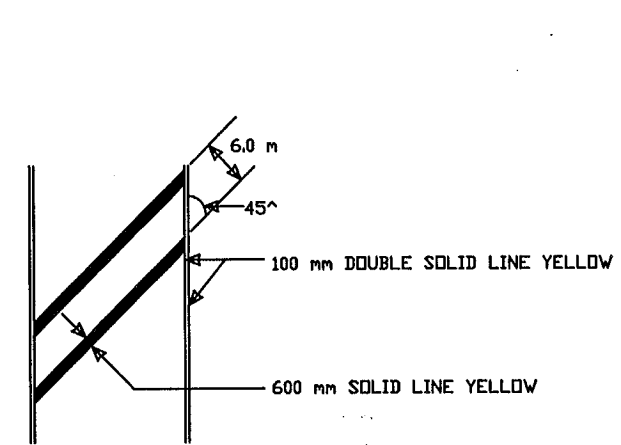
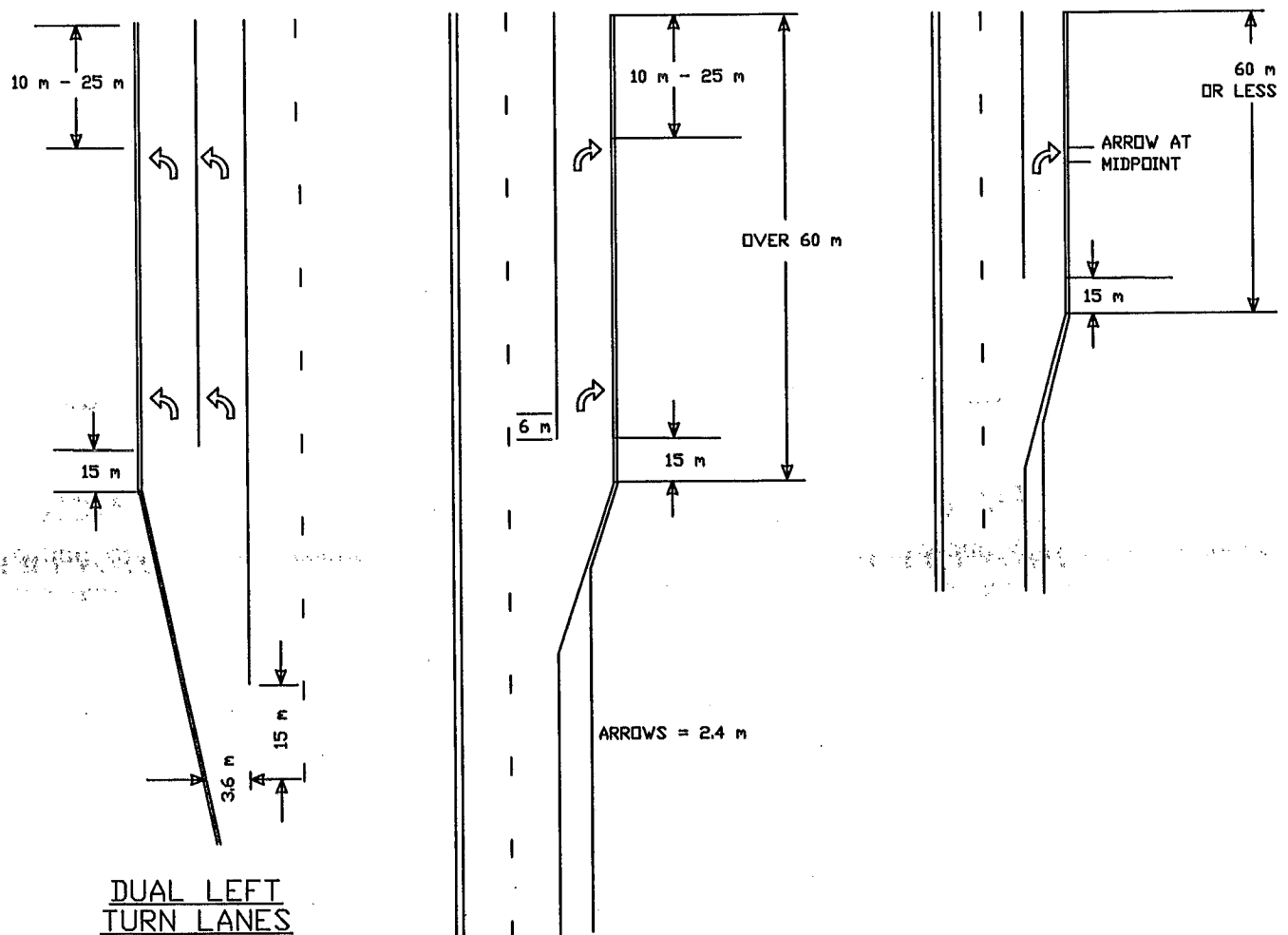
Kevin P. Kiehl
 DATE: 11/5/99 MINN. REG. NO. 23211

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

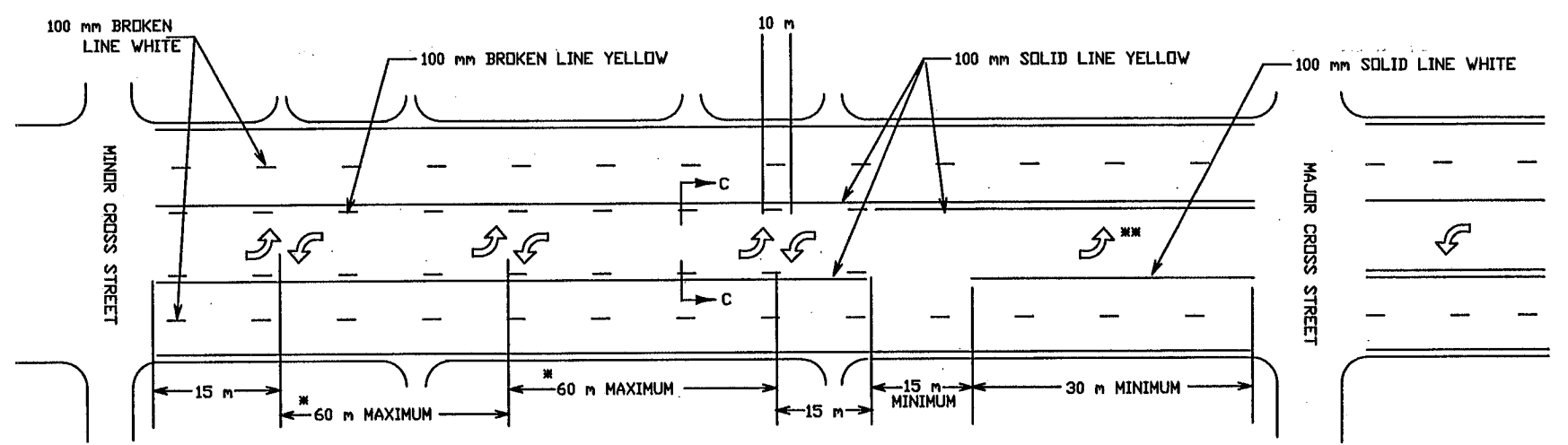
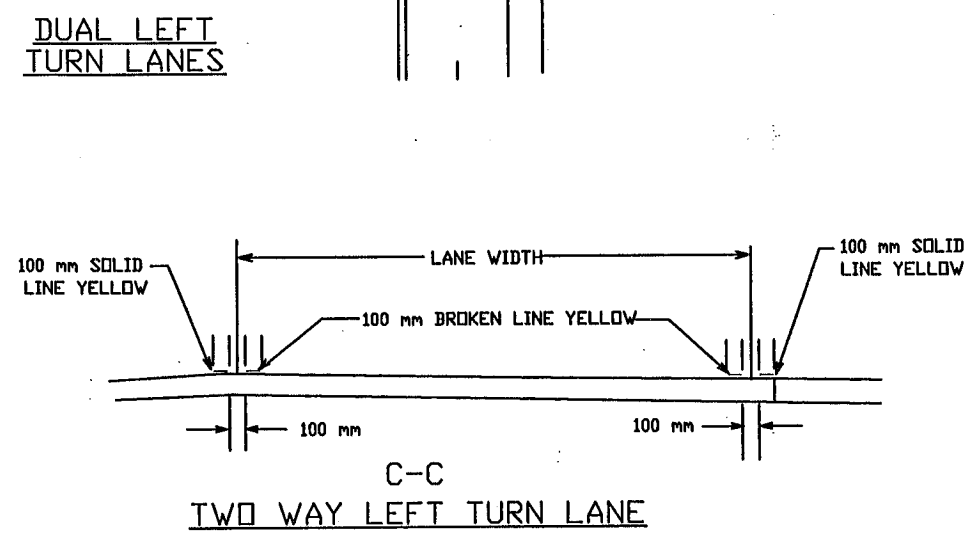
SHEET NO. 289
 539

TYPICAL MESSAGE PLACEMENT FOR TURN LANES
 TH 242, NORTHDALÉ BOULEVARD, 124th AVE. NW and INTERCHANGE RAMPS



- 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.

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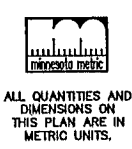
* THESE DISTANCES SHOULD BE EQUAL. THE ARROWS ARE PLACED TO SHOW THE OPERATION AND DO NOT HAVE TO LINE UP WITH ANY OF THE DRIVEWAYS.

** SEE 'TYPICAL MESSAGE PLACEMENT FOR TURN LANES' FOR NUMBER AND PLACEMENT OF ARROWS.

PLOT DATE: Aug 03, 2004 10:24am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\DETAILS\SGN9416.dwg

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

DESIGN FILE: 33889028	DRAWN BY: IKR	DESIGN BY: PDB
CHKD. BY: KPK	DWG. NAME: SGN9416	DATE: NOVEMBER 5, 1999



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Kevin P. Kiel
 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)	SHEET NO.
S.A.P. 02 - 614 - 19	290
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

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
CHKD. BY: KPK	DWG. NAME: MNTYP-01
DATE: NOVEMBER 5, 1999	



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

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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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

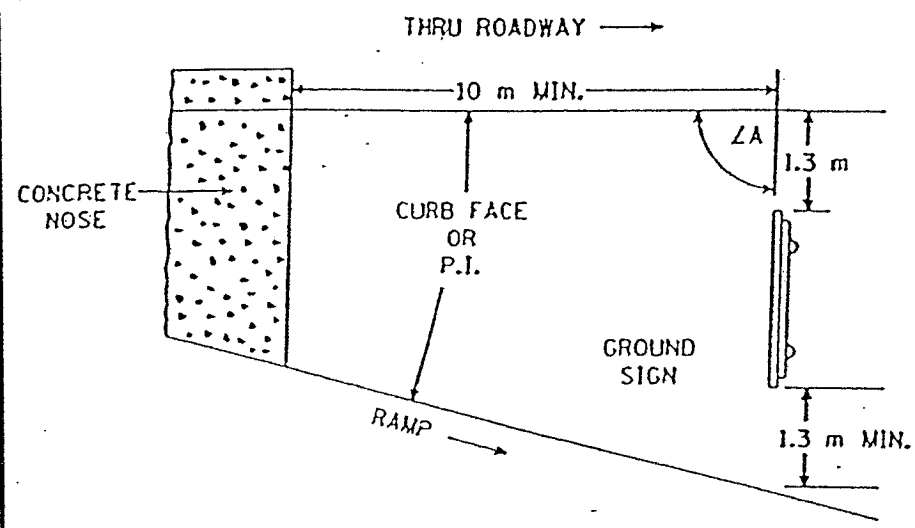
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S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.

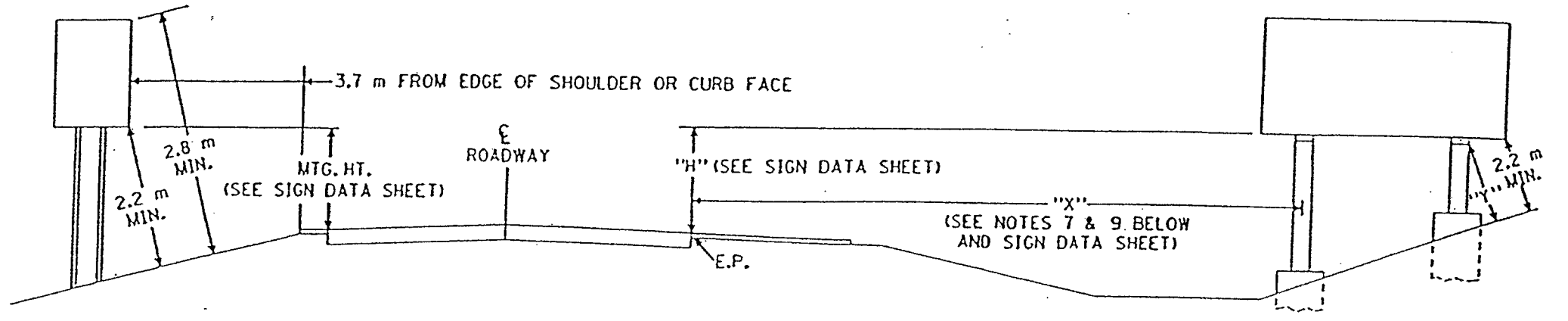
291

539

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, $\angle A$ 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 PREFERRED "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

PLOT DATE: Jul 16 2000 2:24pm DISK FILE NAME: (15:0h (Hardware Lock)) R:\33889\3388902B\99\DETAILS\Signplace.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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DESIGN FILE: 3388902B	DRAWN BY: IKR	DESIGN BY: PDB
CHCKED BY: KPK	DWG. NAME: SGNPLACE	DATE: NOVEMBER 5, 1999

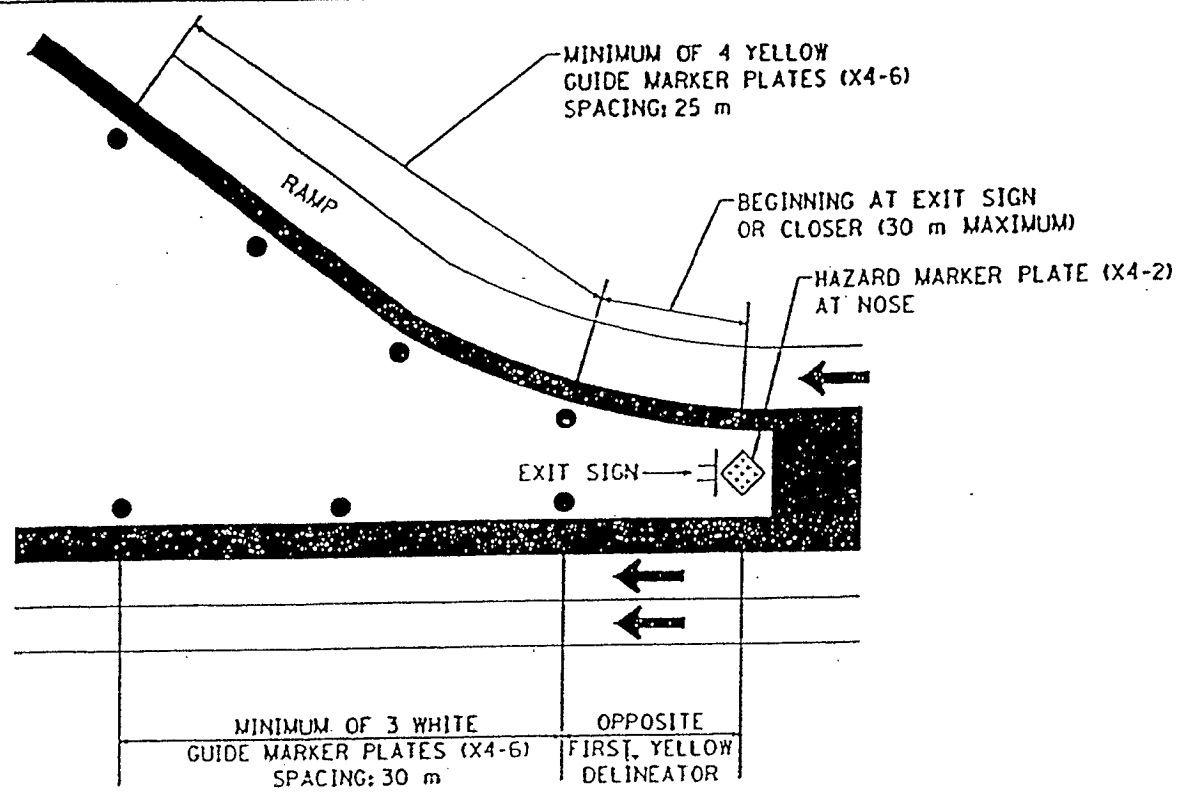


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Kevin P. Kullb
 DATE: 11/5/99 MINN. REG. NO. 23211

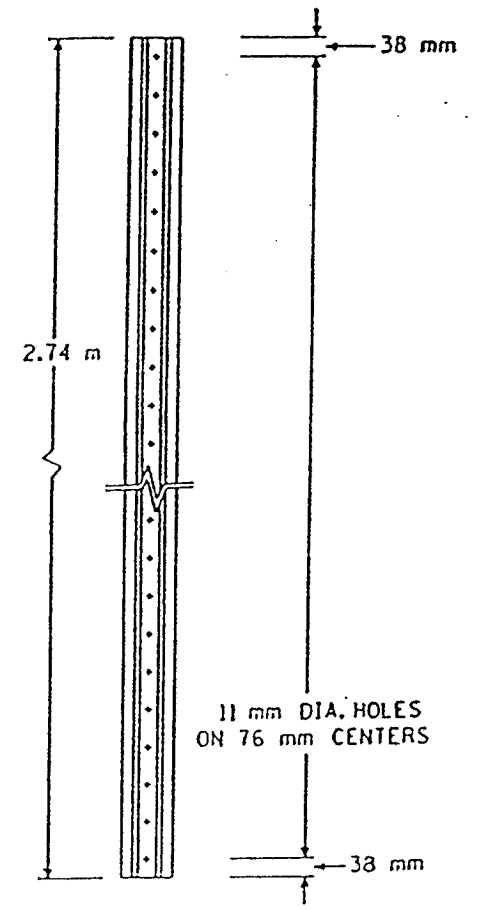
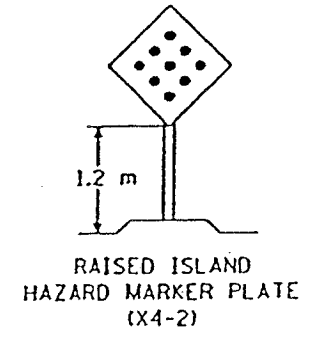
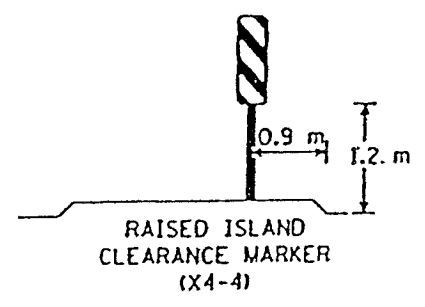
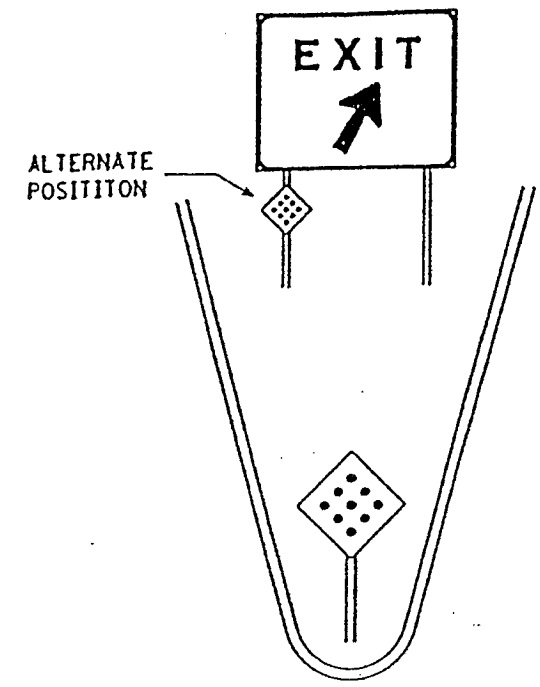
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)
 SIGN PLACEMENT DETAILS
 CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	292
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

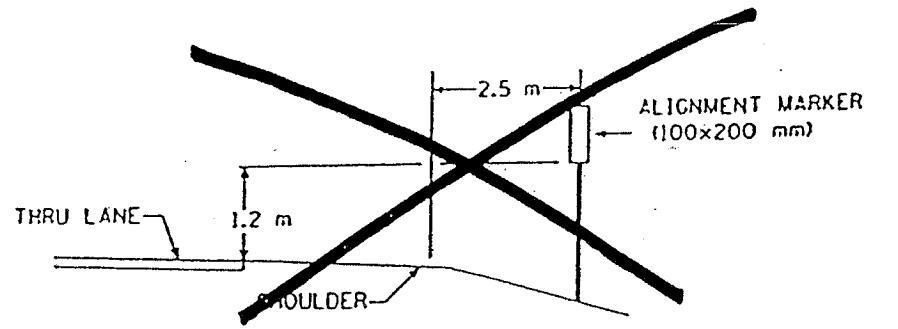
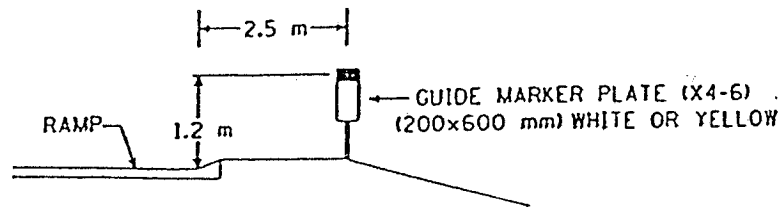
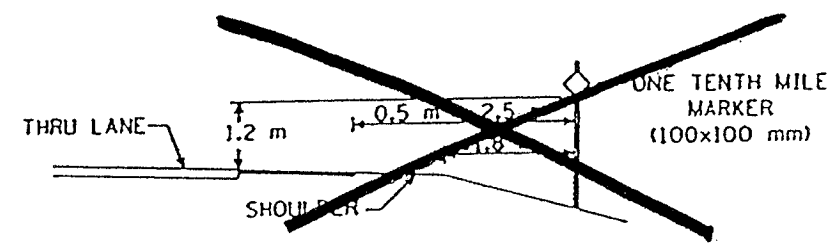
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 PLOT DATE: Dec 1



PLAN A
RAMP DELINEATION

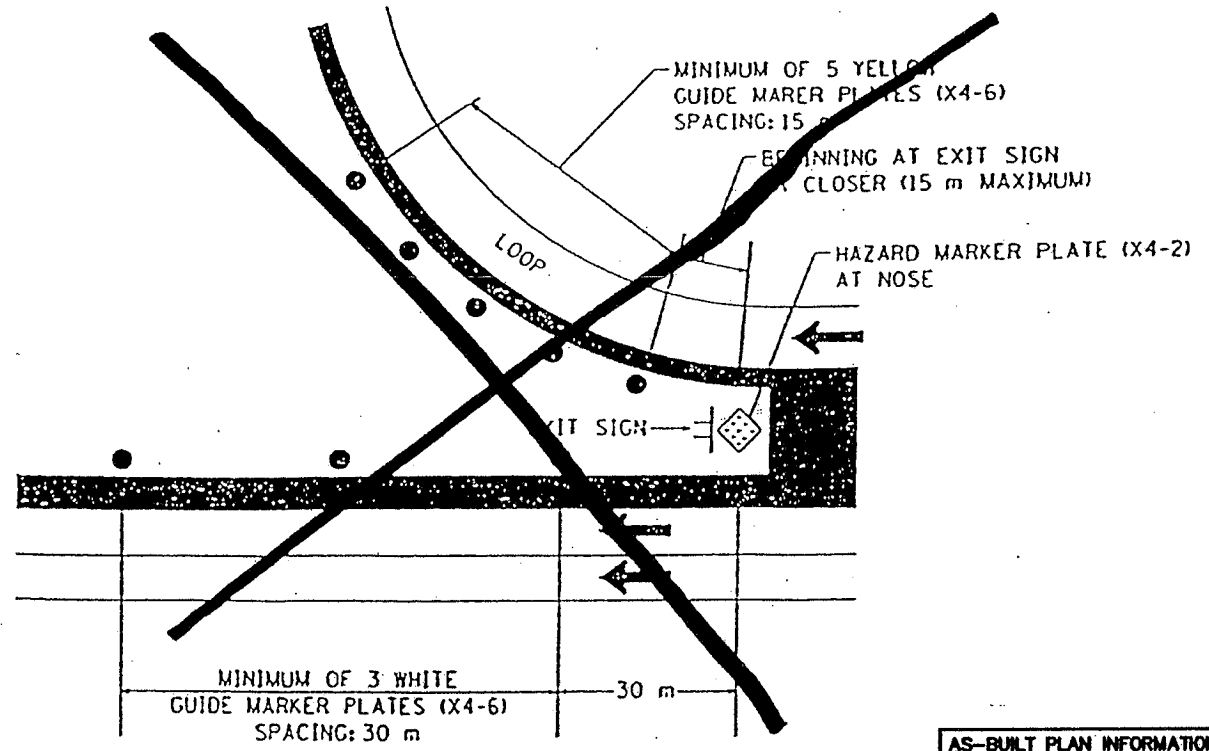


MN/DOT 3401
 NORMAL WEIGHT= 3.0 kg/m
 DELINEATOR POST



TYPICAL PLACEMENT

DELINEATORS AND MARKERS



PLAN B
LOOP DELINEATION

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Revised 1-16-98

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028	DESIGN BY: PDB
DRAWN BY: IKR	CHKD. BY: KPK
DATE: NOVEMBER 5, 1999	DWG. NAME: SGNPLACE

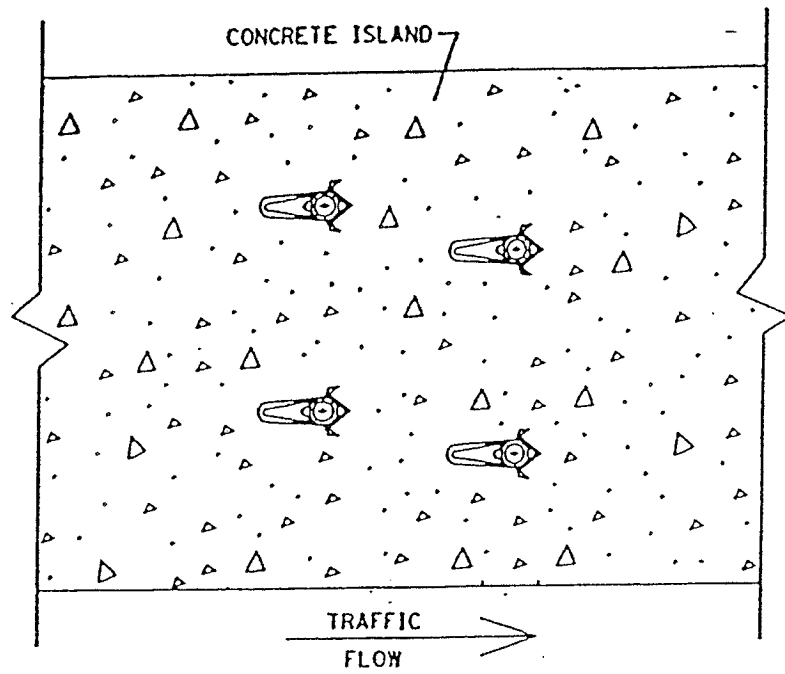


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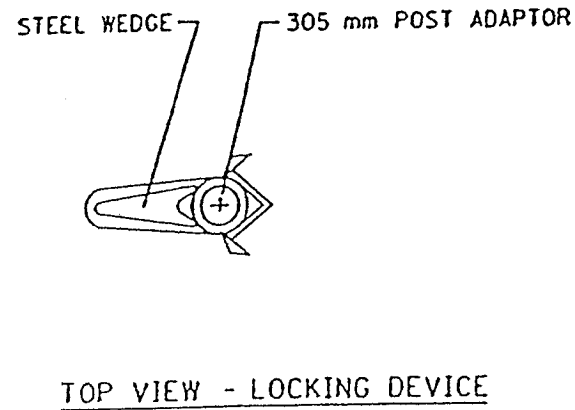
MAIN STREET/T.H. 242 RECONSTRUCTION
 MAIN STREET (CSAH 14/TH 242)
 DELINEATORS AND MARKERS
 CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	S.A.P. 02 - 614 - 19
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S.A.P. 114 - 127 - 02	

SHEET NO.
 293
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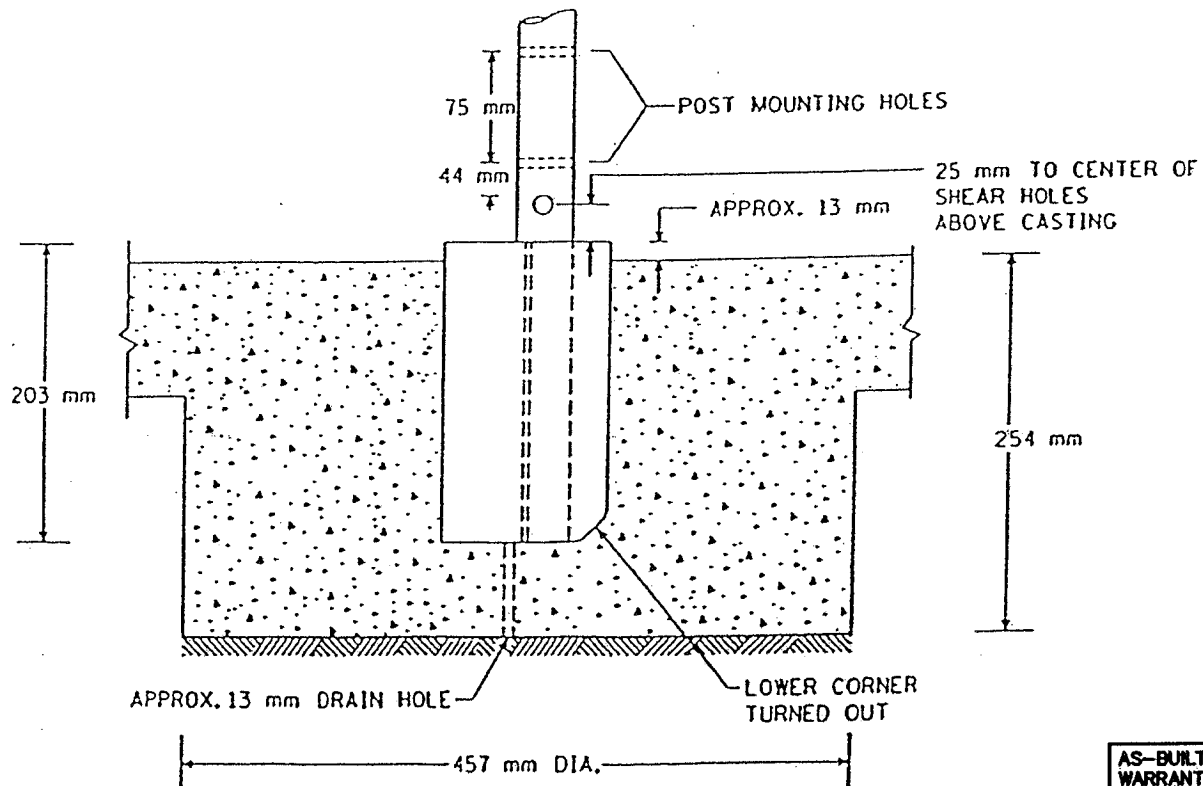
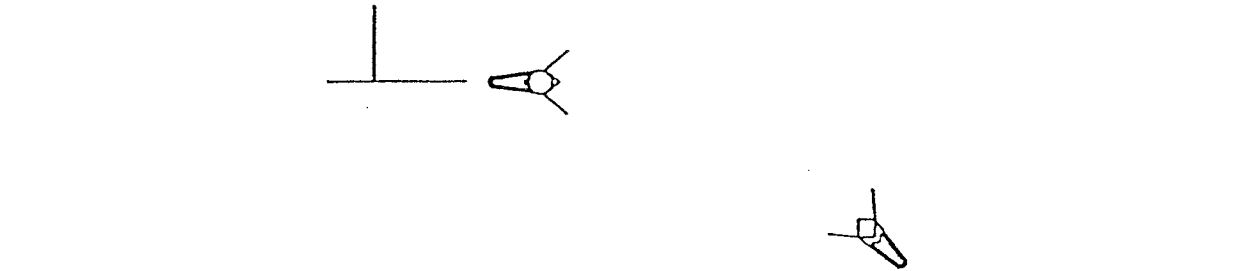
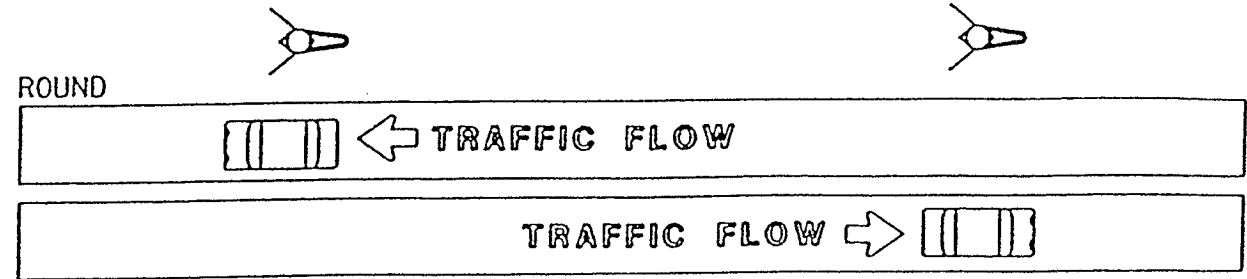


TOP VIEW
2 POSTS SIGN WITH 2 KNEE BRACES



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:



ELEVATION VIEW

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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
DRAWN BY: JKR
CHKD. BY: KPK
DATE: NOVEMBER 5, 1999

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P. Kullb

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

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)

SIGNPOST SUPPORT IN CONCRETE

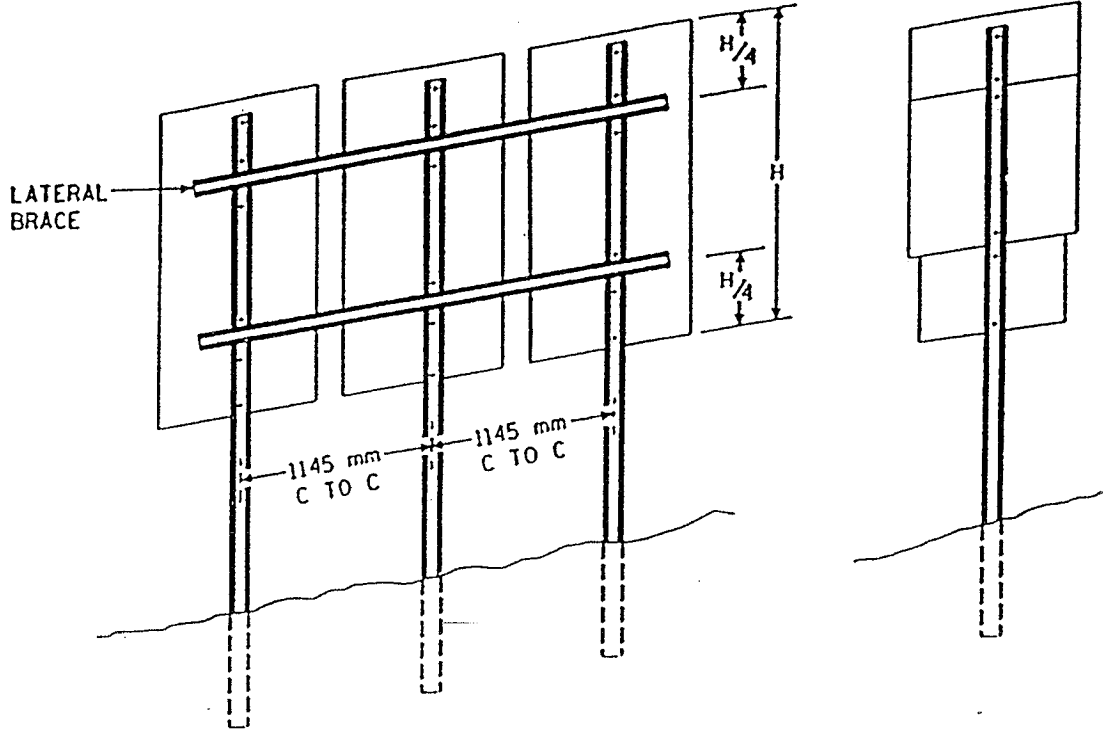
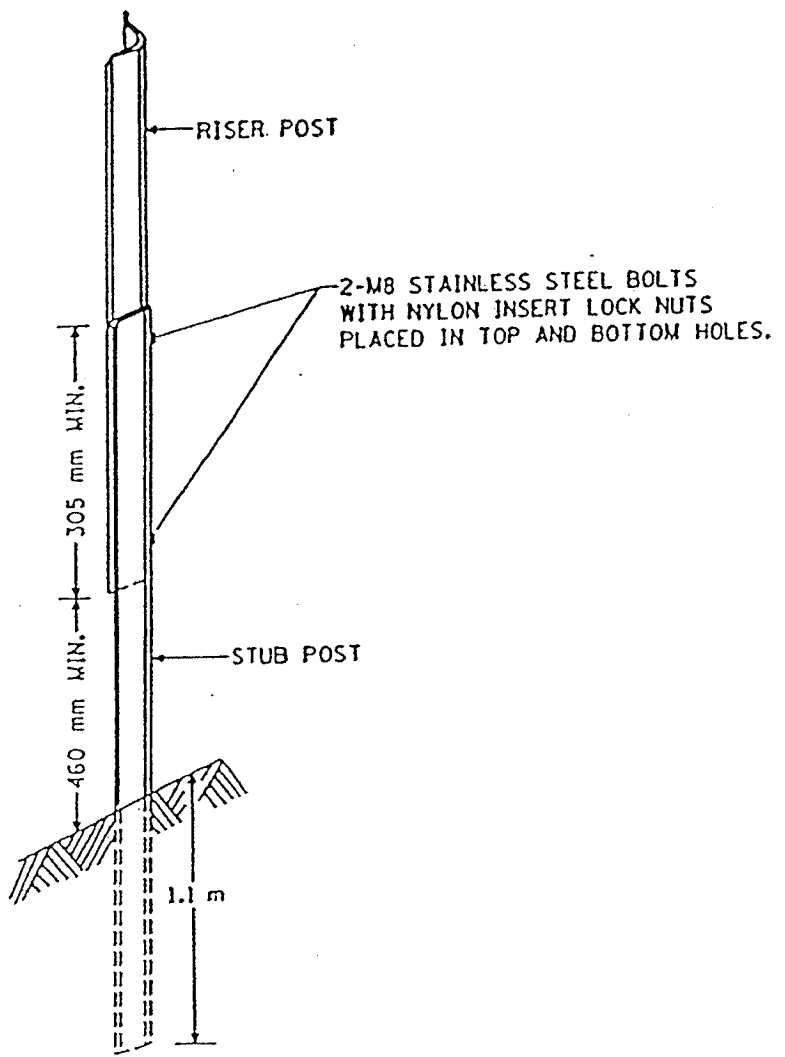
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
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SHEET NO.
294
539

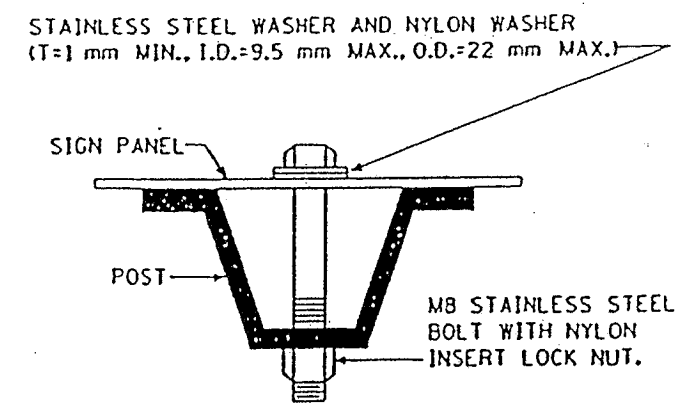
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 1998 8:46am

TYPE "C" & "D" POST

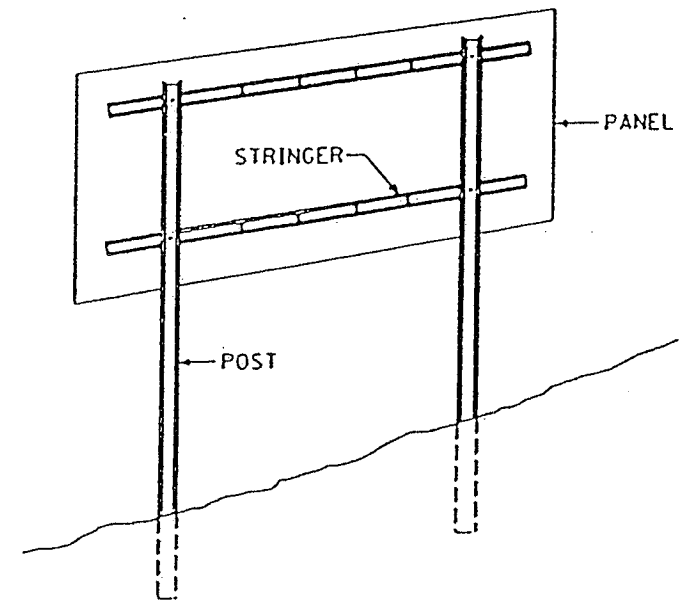


TYPICAL TYPE "C" INSTALLATIONS

"U POST" SPLICE



**"U POST" MOUNTING
TYPE "C" SIGNS**



TYPICAL TYPE "D" INSTALLATION

- NOTES:**
- 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.
 - FOR TYPE "D" SIGN POSTS LENGTHS AND SPACINGS, SEE SIGN DATA SHEET.
 - 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).
 - MOUNTING (PUNCHING CODE) FOR TYPE "C" SIGN PANELS SHALL BE AS INDICATED IN THE STANDARD SIGNS MANUAL UNLESS OTHERWISE SPECIFIED.
 - ALL RISER (VERTICAL) "U POSTS" SHALL BE SPLICED. DRIVEN STUB POSTS SHALL BE AT LEAST 2.2 m LONG.
 - USE STAINLESS STEEL M8 BOLTS, WASHERS, AND NYLON INSERT LOCK NUTS AS SHOWN FOR ALL GROUND MOUNTED AND OVERHEAD MOUNTED SIGNS.
 - STAINLESS STEEL WASHER WITH SAME DIMENSIONS SHALL BE PROVIDED BETWEEN ALL NYLON WASHERS AND BOLT HEADS.
 - BRACING STUBS SHALL BE NO MORE THAN 100 mm ABOVE GROUND AND EMBEDDED AT LEAST 1.1 m.
 - A-FRAME BRACKET SHALL BE STEEL CONFORMING TO MN/DOT 3306 AND GALVANIZED IN ACCORDANCE WITH MN/DOT 3394.
 - COLLARS SHALL BE USED TO SHIM OVERLAYS AND DEMOUNTABLE LEGEND AWAY FROM PANEL WHERE INTERFERENCE WITH BOLT HEADS IS ENCOUNTERED. MN/DOT 3352.2A7.
 - 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.
 - 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

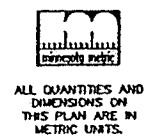
DESIGN A
Sheet 1 of 3

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Revised 1-16-98

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028	
DRAWN BY: IKR	DESIGN BY: PDB
CHECKED BY: KPK	DWG. NAME: SGNPLACE
DATE: NOVEMBER 5, 1999	



DCM GROUP
BRW
 THRESHOLD SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

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

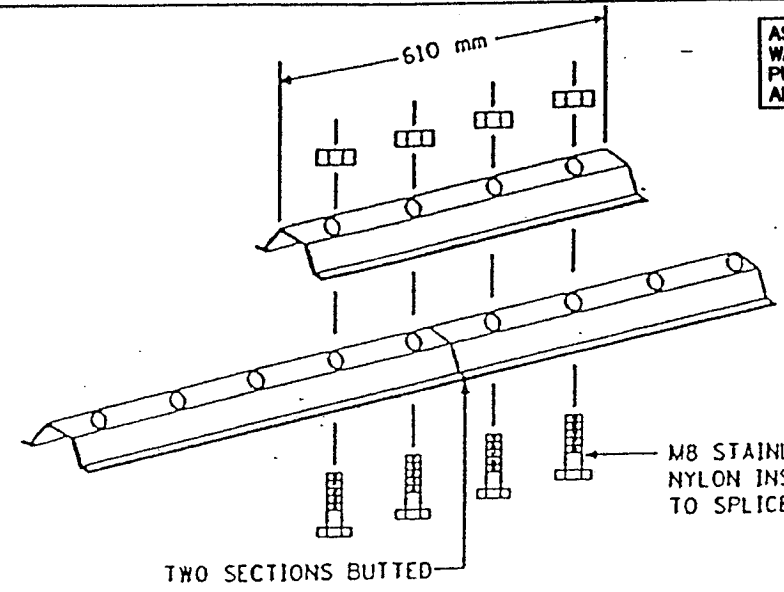
MAIN STREET/T.H. 242 RECONSTRUCTION
 MAIN STREET (CSAH 14/TH 242)
 "C" & "D" SIGN DETAILS
 DESIGN A (Sheet 1 of 3)
 CITY PROJECT 98-20

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

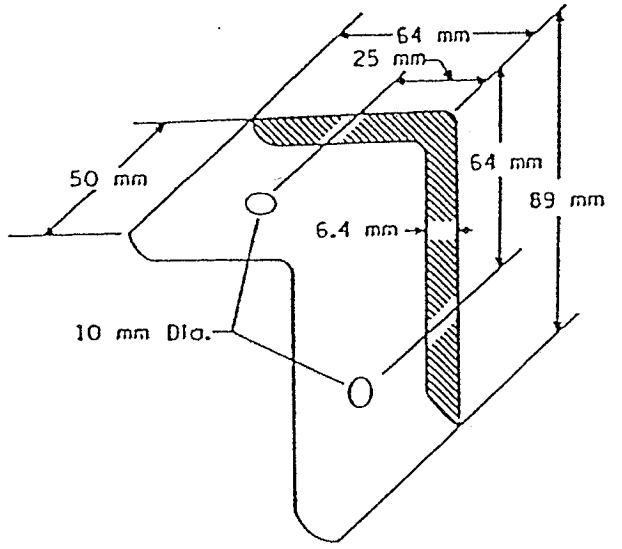
SHEET NO.
295
539

399 8:47am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\DETAILS\face.dwg
 PLOT DATE: Dec

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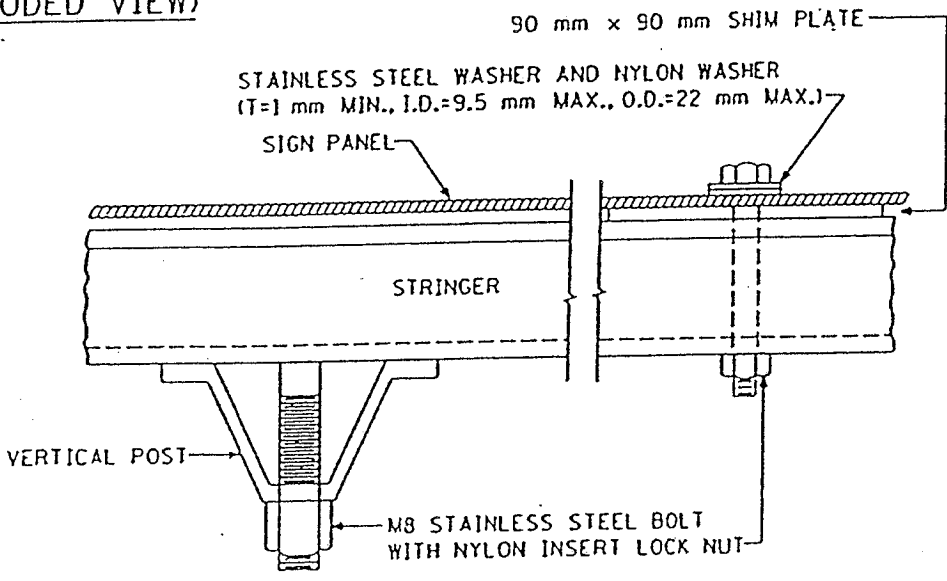


LATERAL BRACE OR STRINGER SPLICE DETAIL (EXPLODED VIEW)

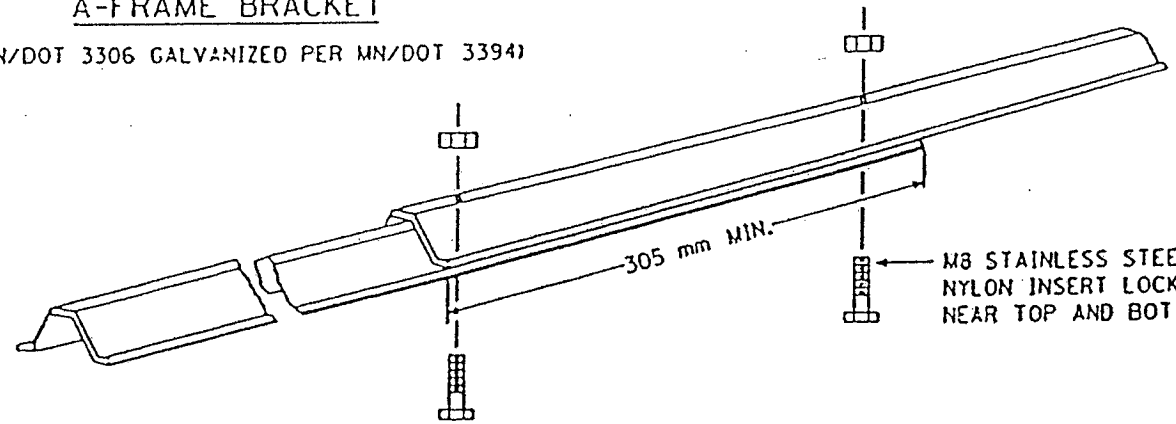


A-FRAME BRACKET

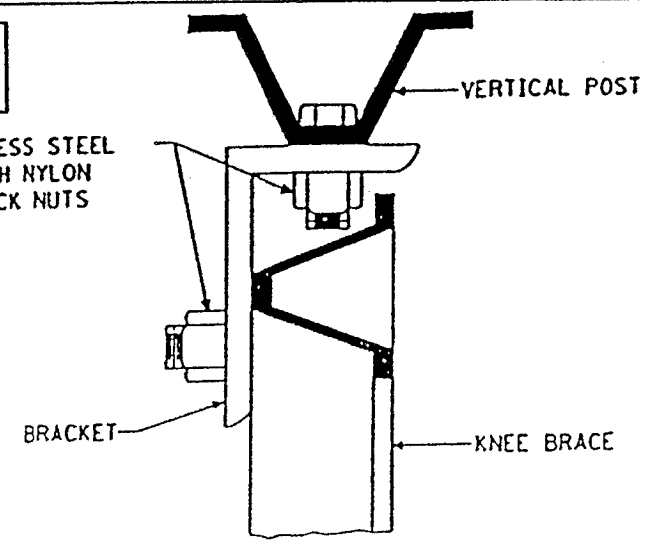
(STEEL MN/DOT 3306 GALVANIZED PER MN/DOT 3394)



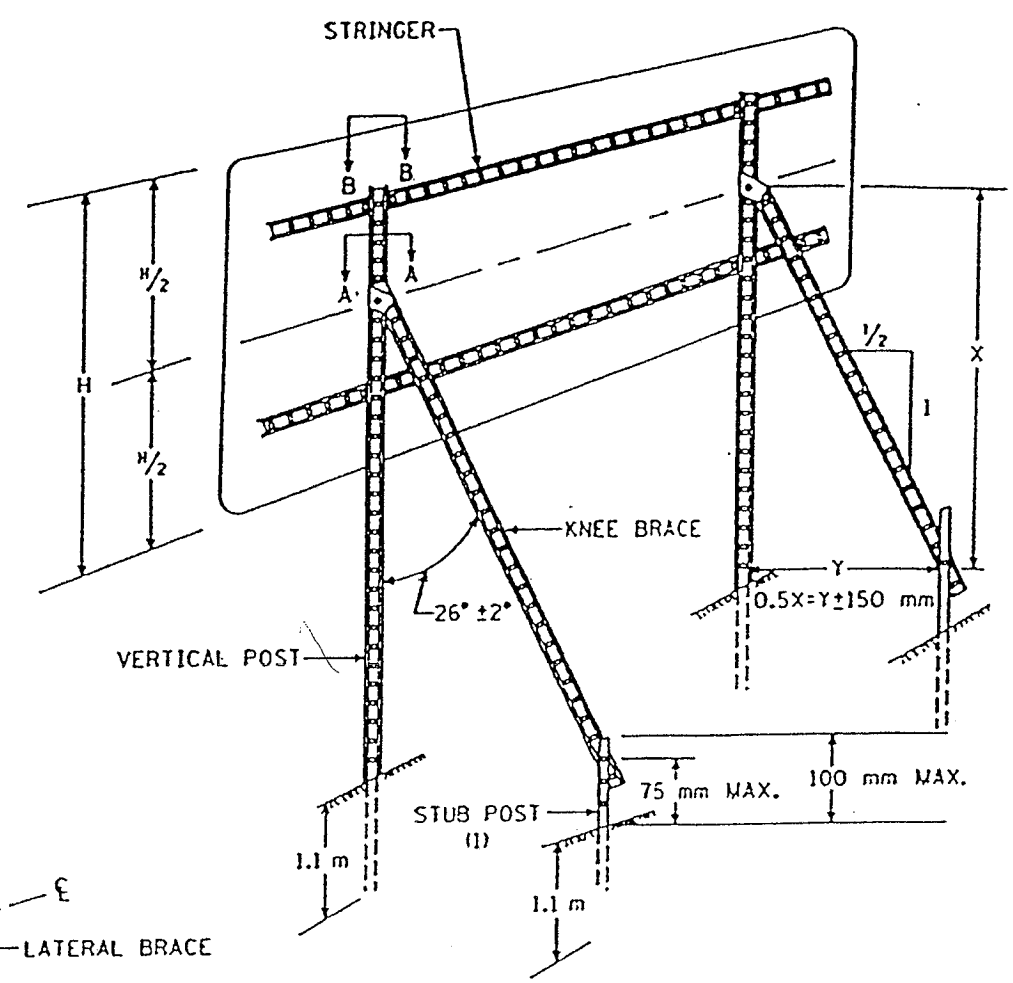
SECTION B-B



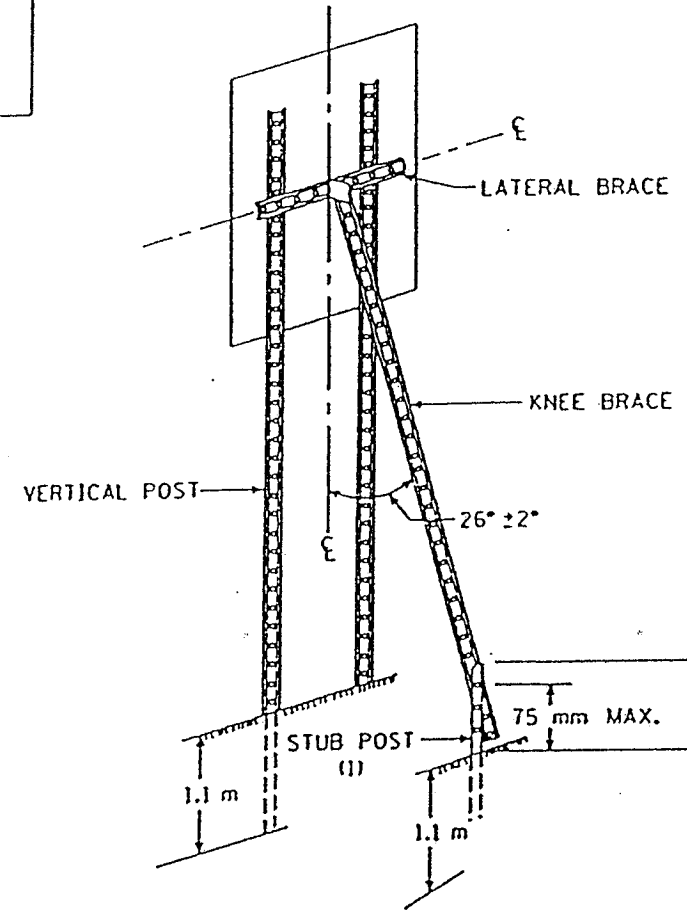
KNEE BRACE SPLICE



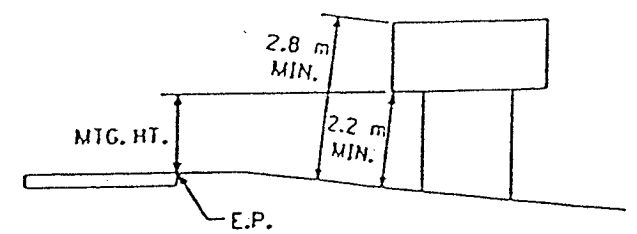
SECTION A-A



TYPICAL "A-FRAME" INSTALLATION TYPE "D" SIGNS



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

8 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028	DRAWN BY: IKR	DESIGN BY: PDB
CHKD. BY: KPK	DWG. NAME: SGNPLACE	
DATE: NOVEMBER 5, 1999		

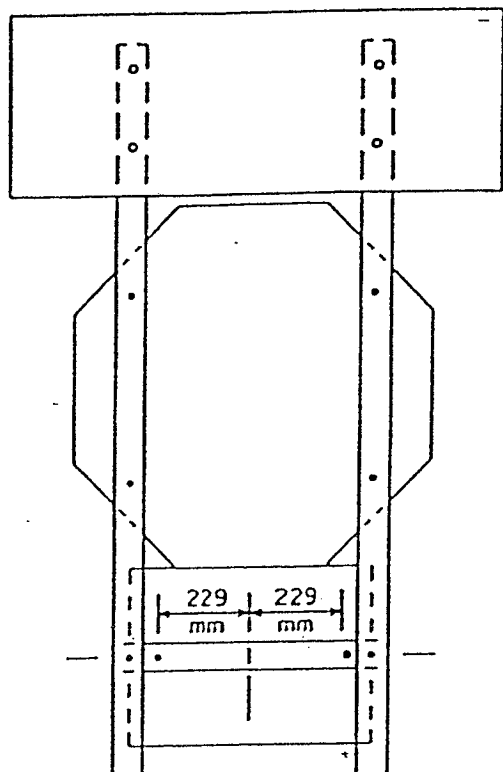


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Kevin P. Kielb
DATE: 11/5/99 MNN. REG. NO. 23211

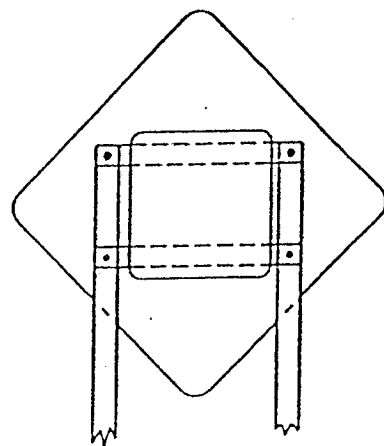
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (CSAH 14/TH 242)
"C" & "D" SIGN DETAILS
DESIGN A (Sheet 2 of 3)
CITY PROJECT 98-20

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

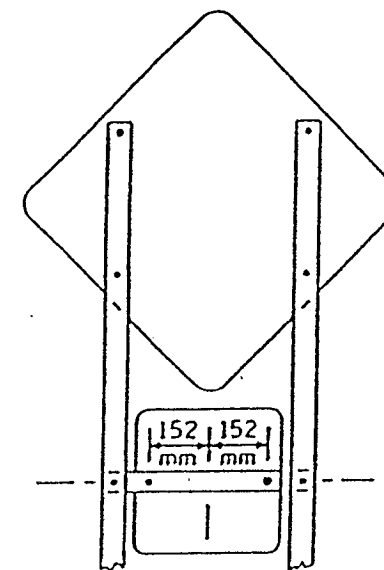
SHEET NO. 296	539
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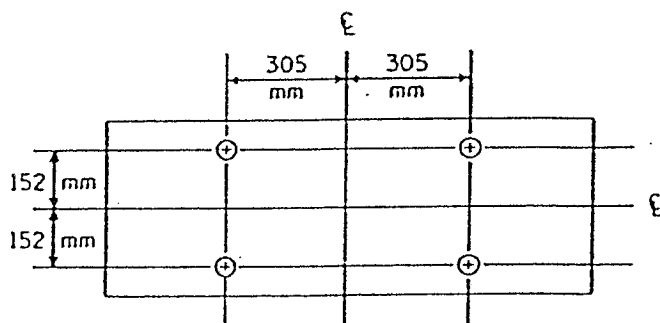
R6-1, R1-1 & (R6-3 OR R6-3a)
MOUNTING



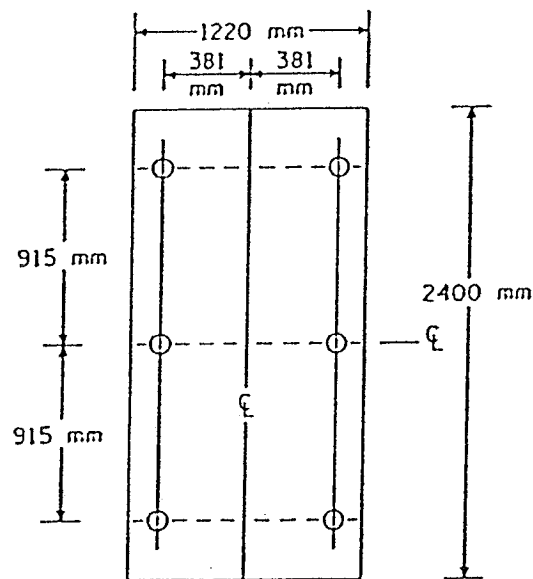
BACK TO BACK MOUNTING
OF R4-7 AND W9-2



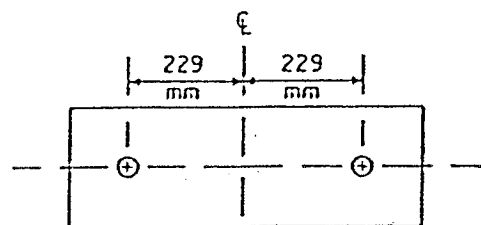
(W1-1, W1-2, W1-3, W1-4 OR W1-5) & W13-1
MOUNTING



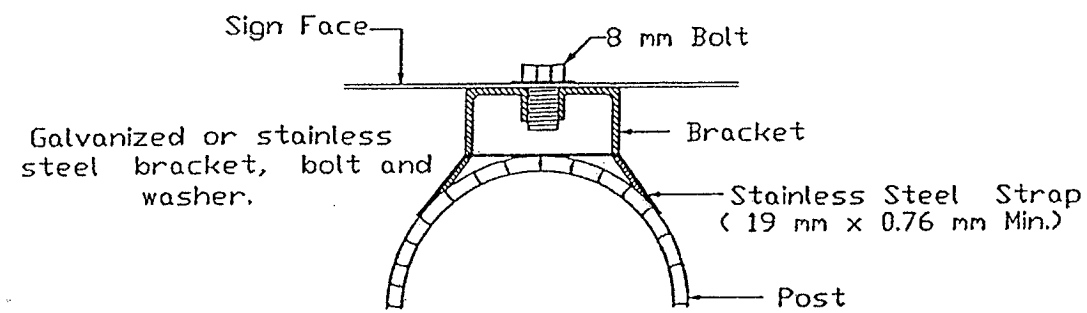
PUNCHING FOR R6-1 (1200x450 mm)



PUNCHING FOR R2-4a
SPEED LIMIT



PUNCHING FOR R6-1 (900x300mm)



STRAP MOUNTING DETAIL

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"C" & "D" SIGN DETAILS

DESIGN A
Sheet 3 of 3

9 OF 31

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

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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 (CSAH 14/TH 242)
"C" & "D" SIGN DETAILS
DESIGN A (Sheet 3 of 3)

CITY PROJECT 98-20

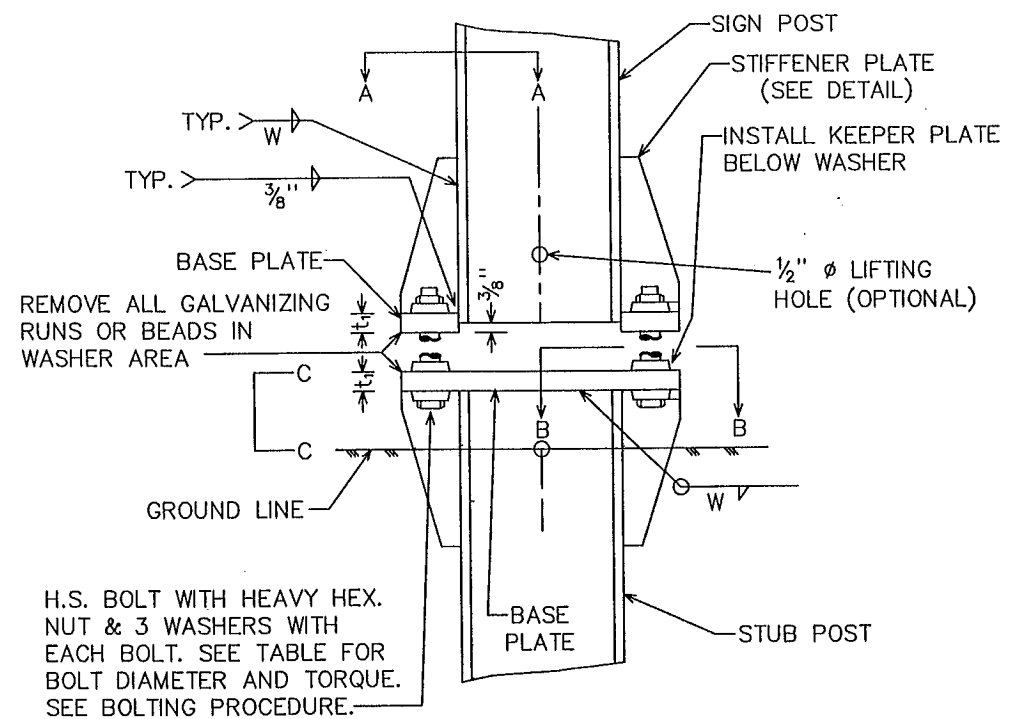
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
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SHEET NO.
297
539

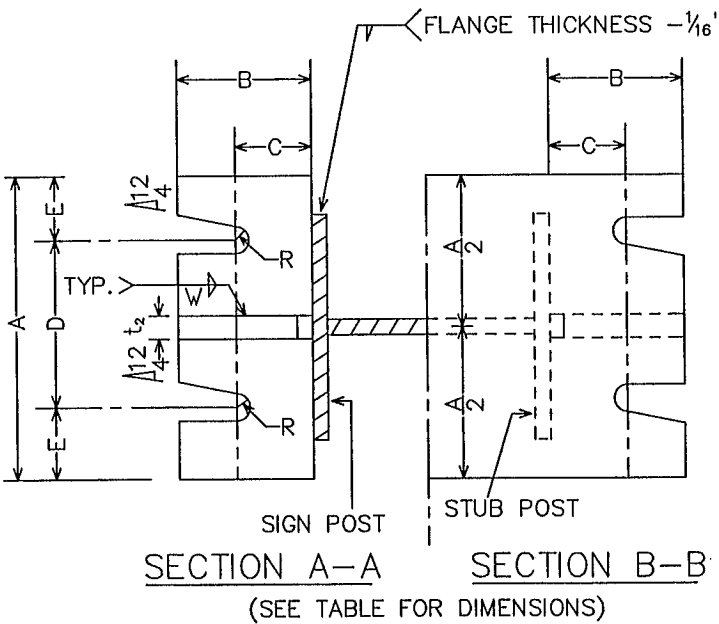
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Revision 1-16-98

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 ASIGN.DWG HF 3-12-98

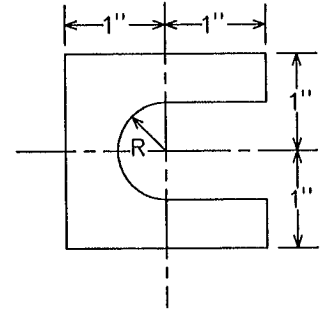


SIGN POST AND STUB POST ELEVATION

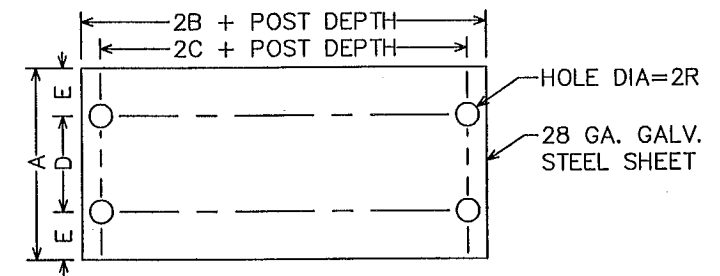


SECTIONS SHOWN ARE FOR INSTALLATIONS ON RIGHT SHOULDER AND IN GORE. PLATE SLOT BEVELS ARE OPPOSITE HAND FROM THAT SHOWN FOR INSTALLATIONS ON LEFT SHOULDER.

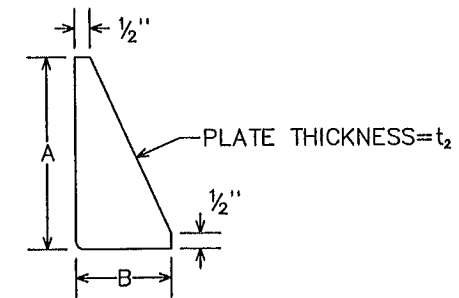
FURNISH TWO-.012"± THICK AND TWO-.032"± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M. B36.



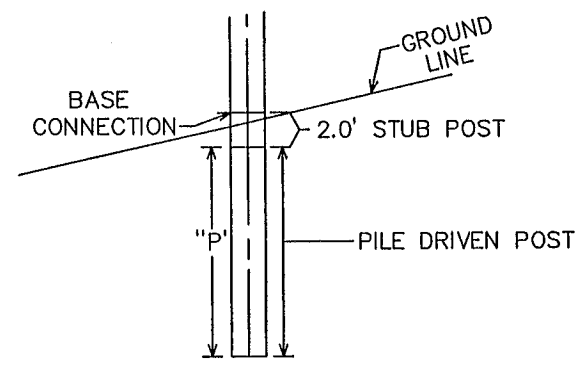
- BOLTING PROCEDURE - BASE CONNECTION**
1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND WITH ONE OF THE FLAT WASHERS ON EACH BOLT BETWEEN PLATES.
 2. SHIM AS REQUIRED TO PLUMB POST.
 3. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS AND SHIMS AND TO CLEAN BOLT TREADS, 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.



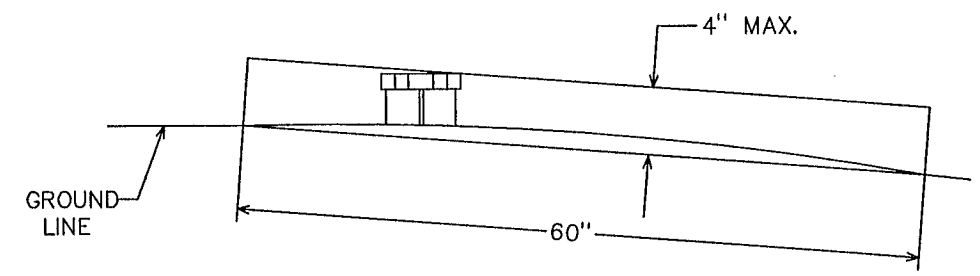
KEEPER PLATE



STIFFENER PLATE DETAIL
(SEE TABLE FOR DIMENSIONS)



H-PILE FOOTING



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.

- 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

DIMENSION	BOLT SIZE AND TORQUE	BASE CONNECTION DATA										FUSE AND HINGE PLATE DATA							FOOTING DATA			
		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" ϕ x 3 1/2"	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"	1 1/16"	3/4"	3/8"	5/8"	2'	12'
W5X16	TORQUE=600"#	6"	2 1/2"	1 1/2"	3 1/2"	1 1/4"	1"	1/2"	1/4"	13/32"	2 1/2"	1 1/4"	5"	2 3/4"	1 1/8"	1 1/8"	1 3/16"	7/8"	3/8"	3/4"	2'	12'
W6X20	7/8" ϕ x 4 1/4"	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"	1 3/16"	1 1/8"	3/8"	3/4"	2'	12'
W8X24	TORQUE=800"#	8"	3"	1 3/4"	4"	2"	1 1/4"	1/2"	1/4"	15/32"	2 1/2"	1 1/2"	6 1/2"	3 1/2"	1 1/2"	1 1/2"	1 5/16"	1 1/4"	1/2"	7/8"	2'	12'
W8X28	1" ϕ 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" ϕ x 5"	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	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"	1 7/8"	1 3/16"	1 3/8"	1/2"	1 1/8"	2'	12'

TYPE A SIGN STRUCTURAL DETAILS

H-PILE FOOTING
 SHEET 1 OF 2

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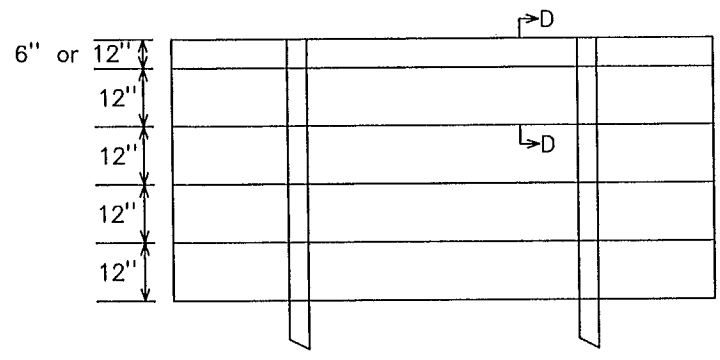
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Kevin P. Kielb
 DATE: 7/19/00 MINN. REG. NO. 23211

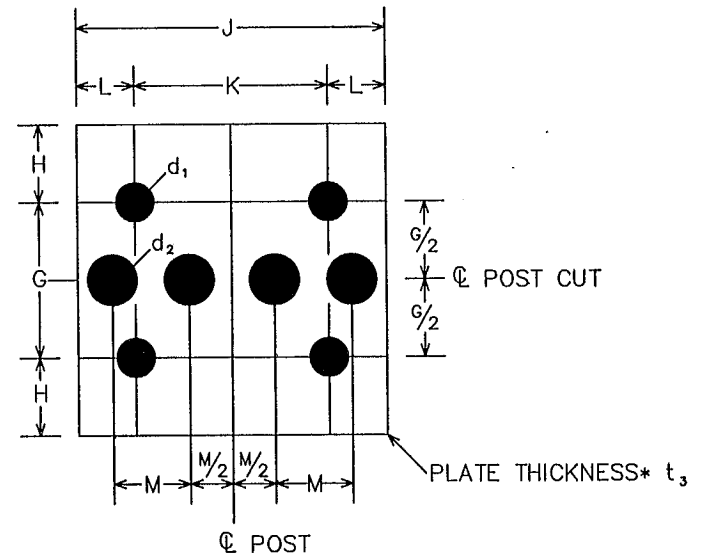
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

Sheet No. 297A of 539 Sheets

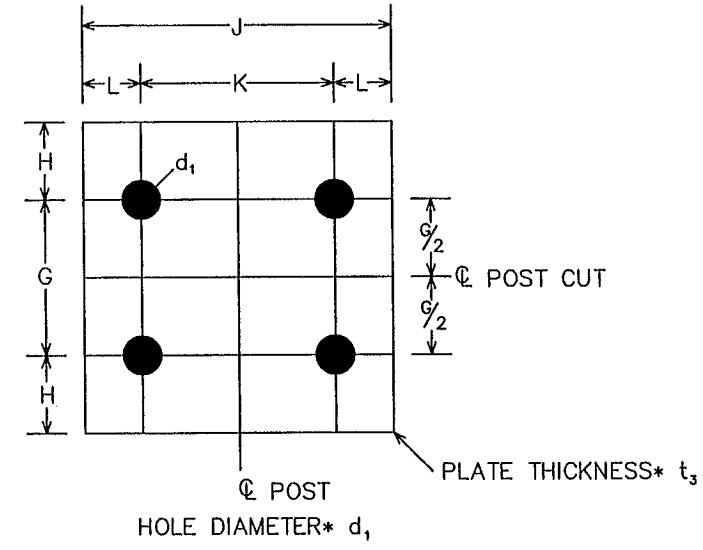
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 ASSIGNSTR 2 10-14-98



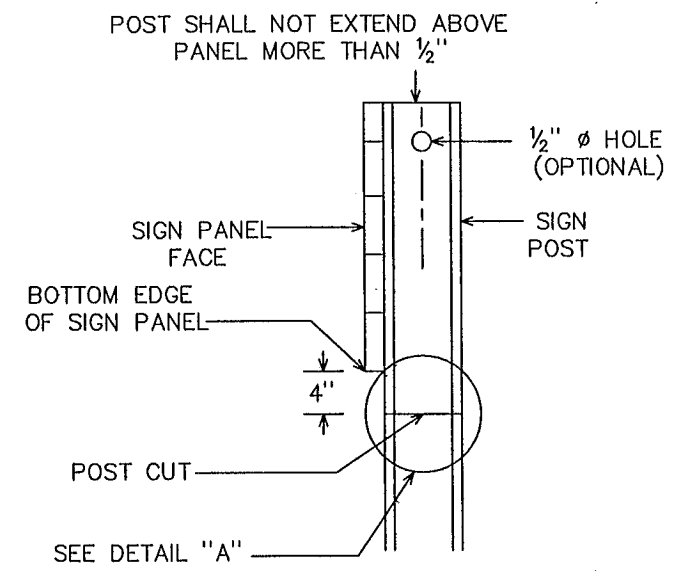
TYPICAL PANEL MOUNTING



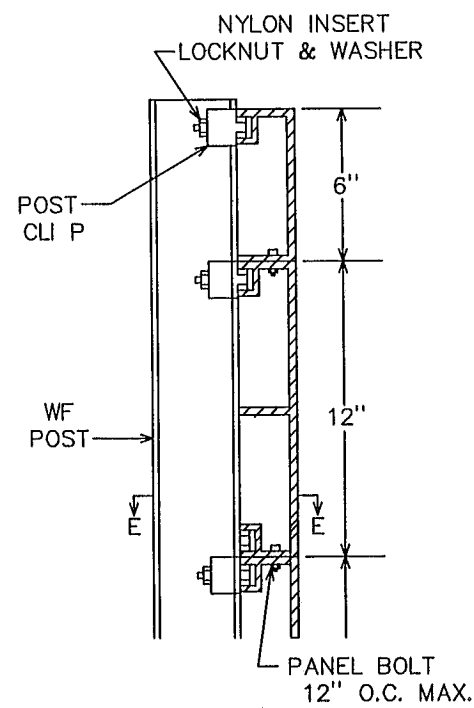
FRICTION FUSE PLATE DETAIL
(SEE TABLE ON SHEET 1 OF 2 FOR DIMENSIONS)



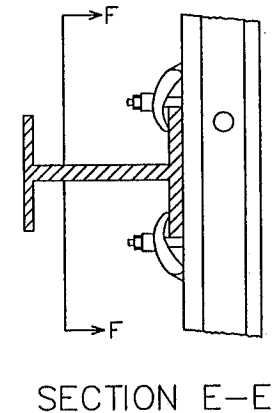
HINGE PLATE DETAIL
(SEE TABLE ON SHEET 1 OF 2 FOR DIMENSIONS)



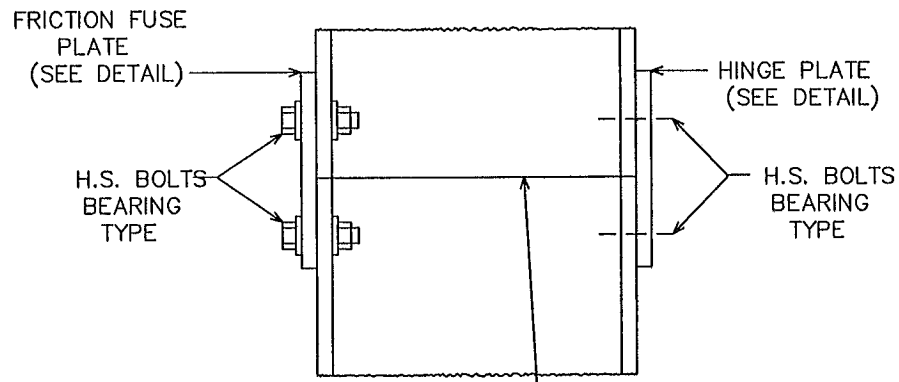
FRICTION FUSE
SIDE VIEW



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

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.

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
1/2" ϕ	12,050#
5/8" ϕ	19,200#
3/4" ϕ	28,400#
7/8" ϕ	39,250#
1" ϕ	51,500#
1 1/8" ϕ	56,450#



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Kevin P. Kullb

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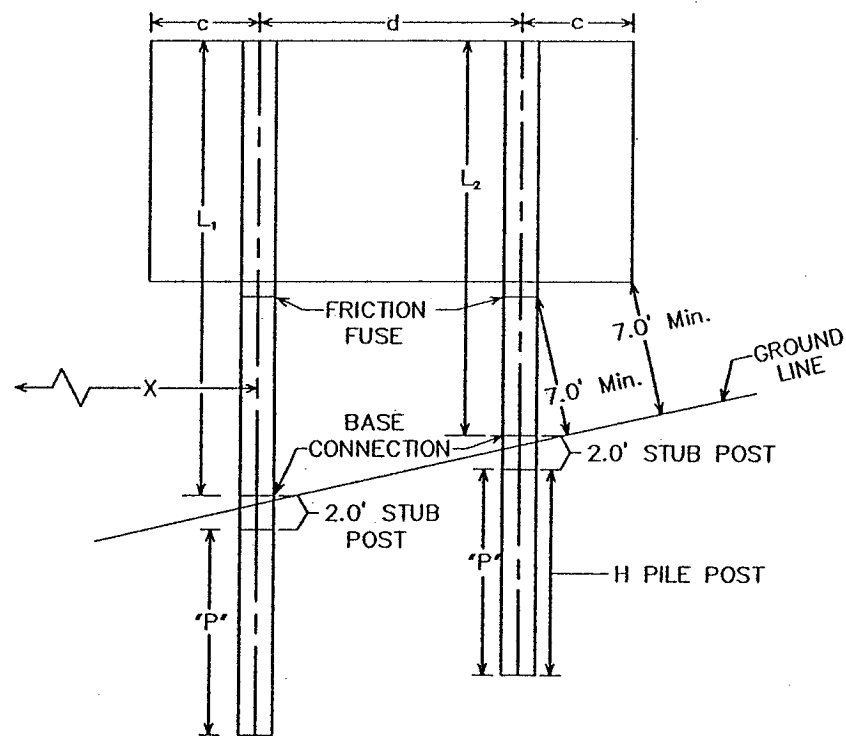
TYPE A SIGN STRUCTURAL DETAILS

PLOT DATE: 19, 2000 8:25am DISK FILE NAME: (15.0h (Hardware Lock) 33889\33889028\33889W\FR-OTHER\MnDOT\osign.dwg

SALVAGE & INSTALL SIGN TYPE A (H PILE FOOTINGS)																
SIGN NO.	PRESENT LOCATION	NEW LOCATION [1]	PANEL SIZE (IN.)		POST						PILE			"X" (FT.)	"H" (FT.)	
			EXISTING	REQUIRED	SIZE		LENGTH (FT.)				d (IN.)	"P" (FT.)	ADDITIONAL STEEL PER PILE (LBS.)			WEIGHT (LBS.)
					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
(L₁ IS POST NEAREST ROADWAY)

TYPE "A" SIGNS

NOTE: THIS PLAN SHEET IS IN ENGLISH UNITS



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.

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

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. Kullb

DATE: 7/19/00 MINN. REG. NO. 23211

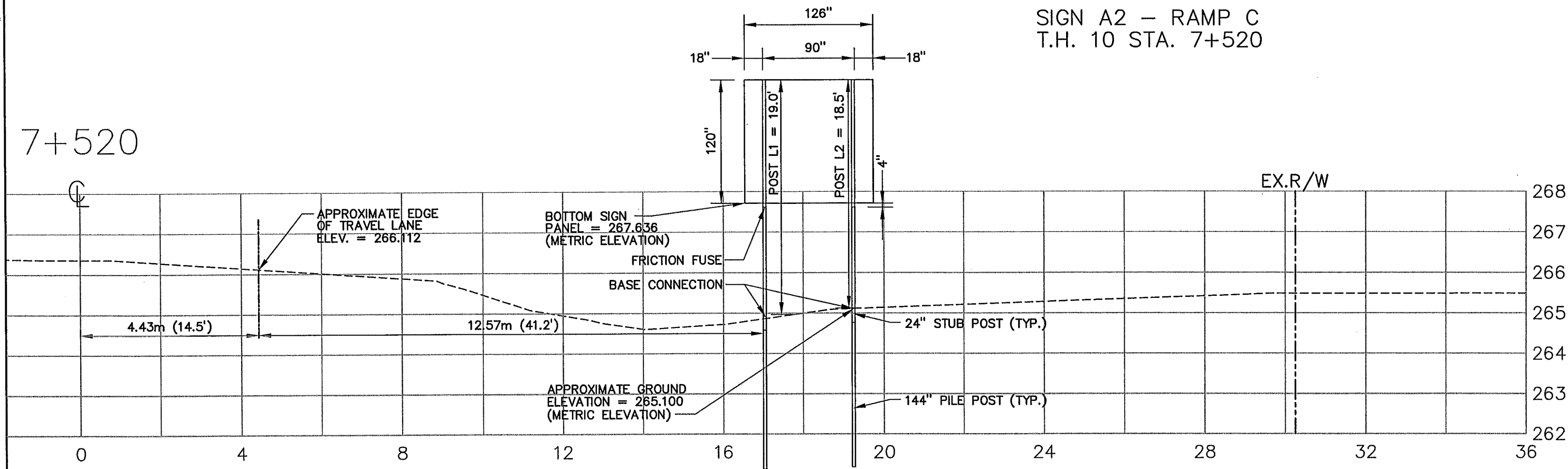
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

"A" SIGN DATA SHEET
H-PILE FOOTING

Sheet No. 297C of 539 Sheets

7+520

SIGN A2 - RAMP C
T.H. 10 STA. 7+520

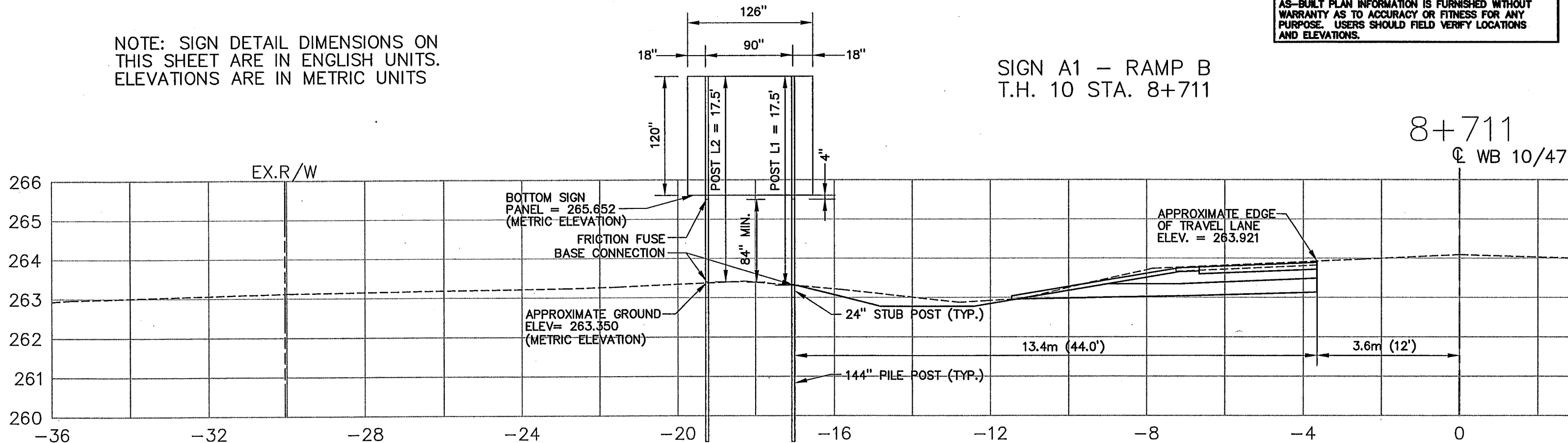


NOTE: SIGN DETAIL DIMENSIONS ON THIS SHEET ARE IN ENGLISH UNITS. ELEVATIONS ARE IN METRIC UNITS

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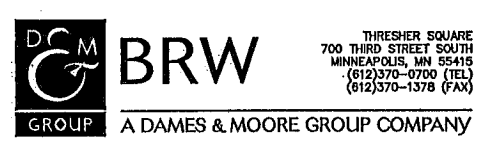
SIGN A1 - RAMP B
T.H. 10 STA. 8+711

8+711
WB 10/47



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	SAW	7/16/00	MOD. REQ. #12: ADDED SHEET
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: JRL	DESIGN BY: KPK
CHKD. BY: KPK/PBD	DWG. NAME: 242ESG10	
DATE: NOVEMBER 5, 1999		



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 326.10.
Kevin P. Kiehl
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)	SHEET NO.
S.A.P. 02 - 614 - 19	297D
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

539

FURNISH AND INSTALL SIGN PANELS TYPE C

AB

Table with columns: 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, NORTHDAL E BOULEVARD 114-127-02, 124TH AVE. NW CROOKED LAKE BOULEVARD 114-136-02, SIGN LEGEND, NOTES.

PLOT DATE: Aug 03, 2004 11:09am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SIGNTAB1.dwg

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

Table with columns: REV. NO., BY, DATE, REVISIONS DESCRIPTION.

Table with columns: DESIGN FILE, DRAWN BY, DESIGN BY, CHKD. BY, DWG. NAME, DATE.

BRW logo and contact information: THRESHOLD SQUARE, 700 THIRD STREET SOUTH, MINNEAPOLIS, MN 55415.

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

Table with columns: S.P., O2-614-19, O2-618-24, 114-010-11, 114-020-19, 114-136-02, 114-127-02.

10 OF 31 SHEET NO. 298 539

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	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									ADDITIONAL	
C-67	1U		1.9	W1-4R	30 X 30	0.580								2	1.160				REVERSE TURN	
			1.9	M3-1	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											RIGHT LANE ENDS	
			1.9	W20-100P	24 X 18	0.556	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	
1	D-8	2U	2	2.2	72 X 60	2.700													EXIT (E5-1)	
	D-10	3U	3	2.2	60 X 72	2.700				1	2.700								WEST COUNTY ROAD 14, LEFT	
1	D-11	2U	2	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	

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

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED DIRECTIONAL ARROW FROM C-64.
2	JLL	7/5/00	MOVED D SIGN D-15 FROM MAIN ST TO ROADWAY.
3	IKR	7/14/00	MOD. REQ. #36: MOD. TYPE C SIGN QUANTITY
4	SAW	07/19/00	MOD. REQ. #51: MOD. TYPE C SIGN QUANTITY
5	JLL	07/19/00	MOD. REQ. #12: REVISED D-10 AND D-11 POSTS
6	JLL	6/13/01	MOD. REQ. #69: MOD. ND BLVD SIGNS
7	JLL	6/19/01	MOD. REQ. #77: MOD. SIGNS FOR MAIN ST (TH 242)
8	JLL	6/26/01	MOD. REQ. #97: MOD 124TH AVE SIGNS
9	JLL	7/30/01	MOD. REQ. #101: ADDED TYPE C SIGNS
10	TSR	2/27/04	MOD. REQ. #108: MOD. SIGNS FOR TH242 LANE TRANSITION

DESIGN FILE: 33889028
DRAWN BY: PJM/JLL
DESIGN BY: JLL
CHKD. BY: KPK
DWG. NAME: SIGNTAB2
DATE: NOVEMBER 5, 1999



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Kevin P. Kiehl
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

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)	1	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+192 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+826 RT		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

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PLOT DATE: Aug 05 11:11am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\TABS\SIG.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	KR	12/30/99	REVISED QTY, CLEARANCE MARKER FOR NORTHDALE BLVD.
2	JL	7/5/00	MOD. REQ. #38: REVISED DELINEATOR QUANTITY
3	KR	7/14/00	MOD. REQ. #51: REVISED DELINEATOR QUANTITY
4	SAW	07/19/00	MOD. REQ. #12: REVISED LOGO SIGNS
5	JL	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
CHKD. BY: KPK	DWG. NAME: SIGNTAB3	
DATE: NOVEMBER 5, 1999		



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. Kiehl
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)	SHEET NO.
S.A.P. 02 - 614 - 19	300
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

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
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
RIVER RAPIDS DRIVE (SOUTH OF MAIN ST.)		2	1	1	1		262		12	126							13	24
RIVER RAPIDS DRIVE (NORTH OF MAIN ST.)		2	2				192		10	88							14	18
RIVERDALE VILLAGE BLVD. (SOUTH OF MAIN ST.)		5	1		1		426		36	240							25	10
RIVERDALE VILLAGE BLVD. (NORTH OF MAIN ST.)		2	1				318		12	28							14	24
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			294							15
RAMP C		2	2	2			65	90										
HIGHWAY 10/47 EASTBOUND 7+626 TO 7+830							88	90										
RAMP D					2		1372	322	62	968								12
HIGHWAY 10/47 EASTBOUND 8+380 TO 8+680							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	0	0	0	2652	200	298	16	420	9	14	183	0	21	121	
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
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
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
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.

PLOT DATE: Aug 04 11:15am DISK FILE NAME: (15.06) R:\33889\33889028\33889\TABS\SIG\33889.dwg

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	JL	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	JL	9/29/00	MOD. REQ. #59: MOD. QUANTITIES FOR ND BLVD
5	JL	6/28/01	MOD. REQ. #101: MOD. QUANTITIES FOR RIVER RAPIDS DR.
6	JL	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.

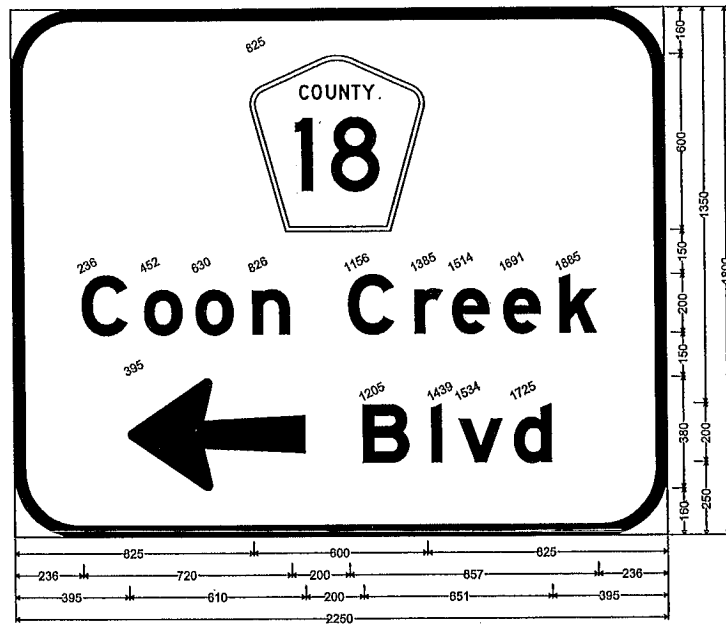


I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
 Kevin P. Kull
 DATE: 11/5/99 MINN. REG. NO. 23211

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

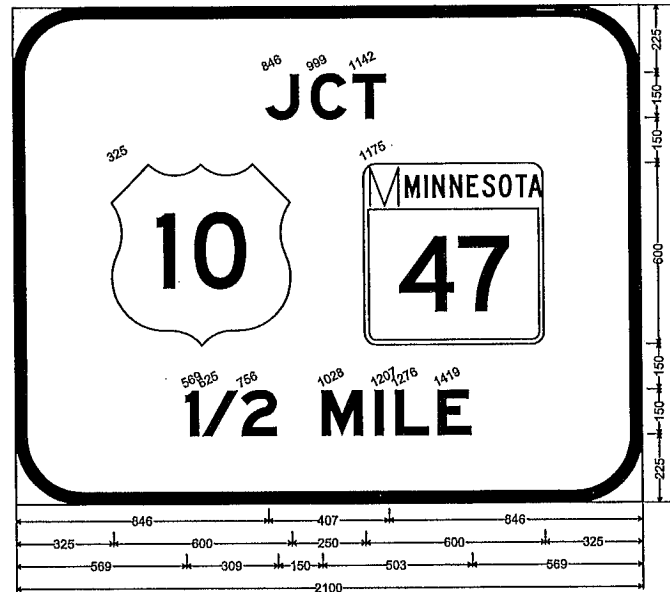
S.P. 0212-40 (T.H.242-242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

13 OF 31
 SHEET NO. 301
 539



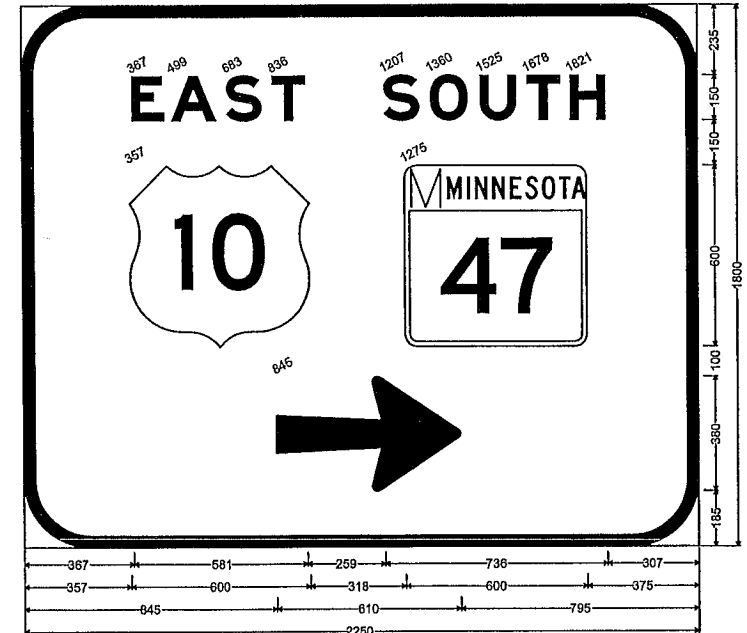
225mm Radius, 38mm Border, White on Green;
[Coon Creek] E Mod; Arrow 15 - 610mm 180°; [Blvd] E Mod;

SIGN DETAIL
D-5



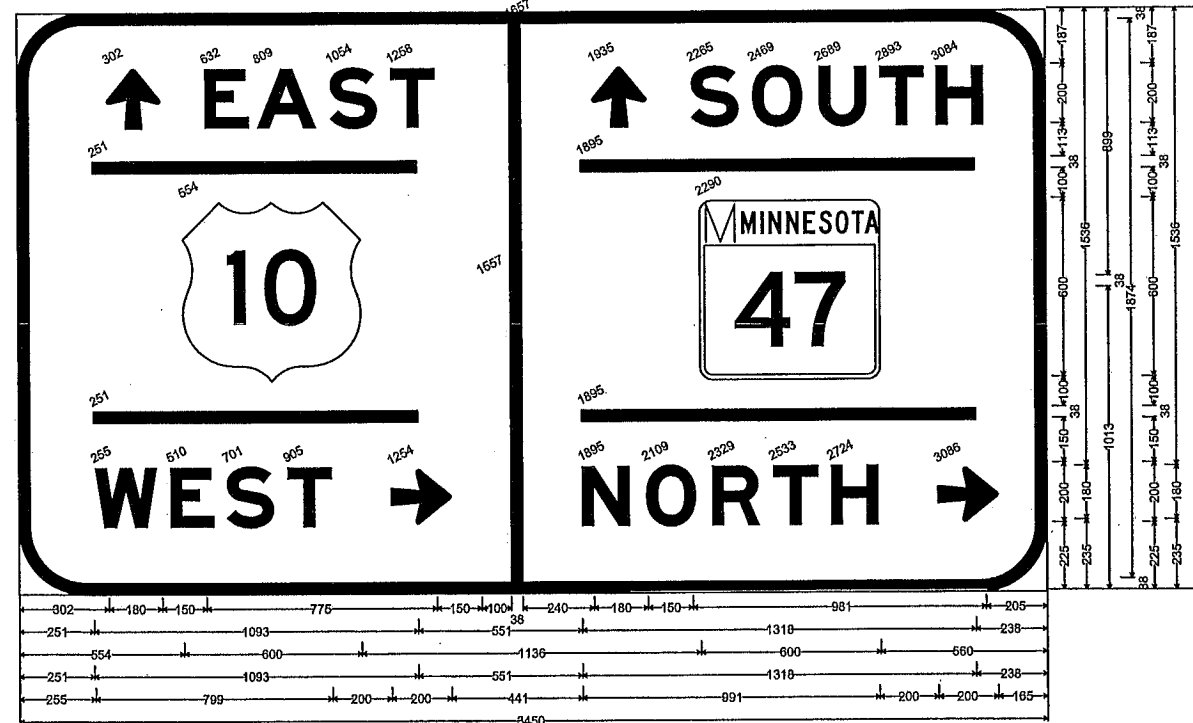
225mm Radius, 38mm Border, White on Green;
[JCT] E Mod; [1/2 MILE] E Mod;

SIGN DETAIL
D-1



225mm Radius, 38mm Border, White on Green;
[EAST] E Mod; [SOUTH] E Mod; Arrow 15 - 610mm 0°;

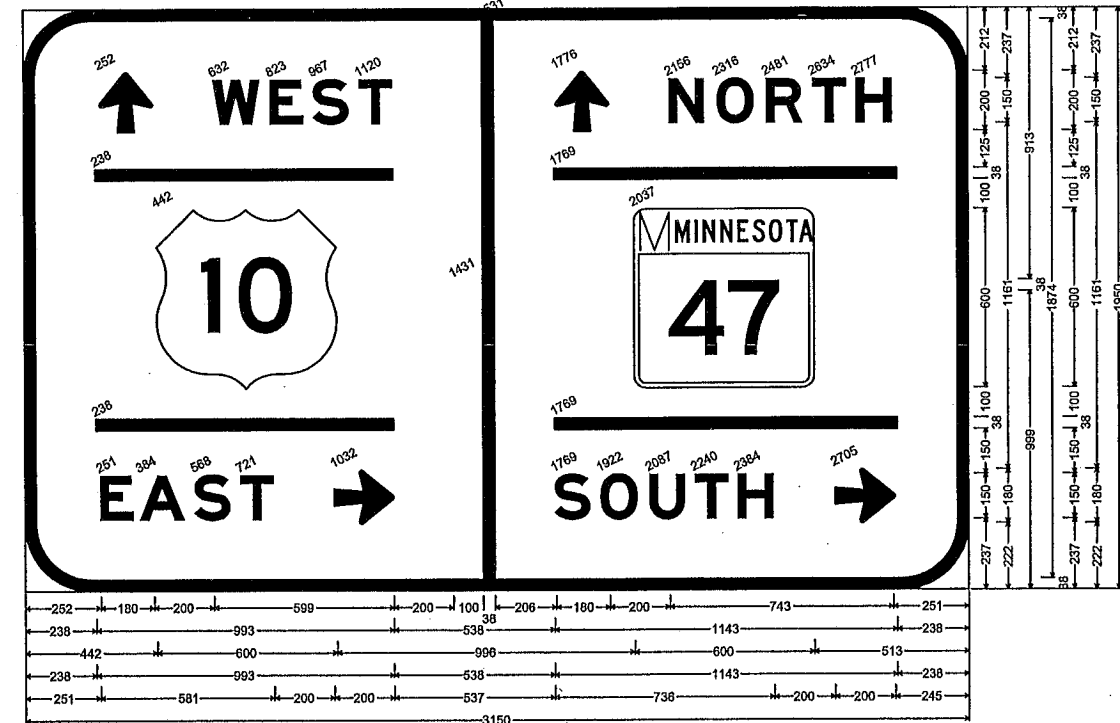
SIGN DETAIL
D-3



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

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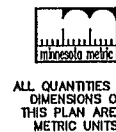
225mm Radius, 38mm Border, White on Green;
Arrow 2 - 200mm 90°; [WEST] E Mod; [EAST] E Mod; Arrow 2 - 200mm 0°; Arrow 2 - 200mm 90°; [NORTH] E Mod; [SOUTH] E Mod; Arrow 2 - 200mm 0°;

SIGN DETAIL
D-2

PLOT DATE: Aug 04 11:27am DISK FILE NAME: (15.06) .R: \33889\33889028\33889\PLAN_S1 GRING\242WDET2.dwg

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
CHKD. BY: PBD/KPK	DWG. NAME: 242WDET2	DATE: NOVEMBER 5, 1999



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



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Kevin P. Kullb
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

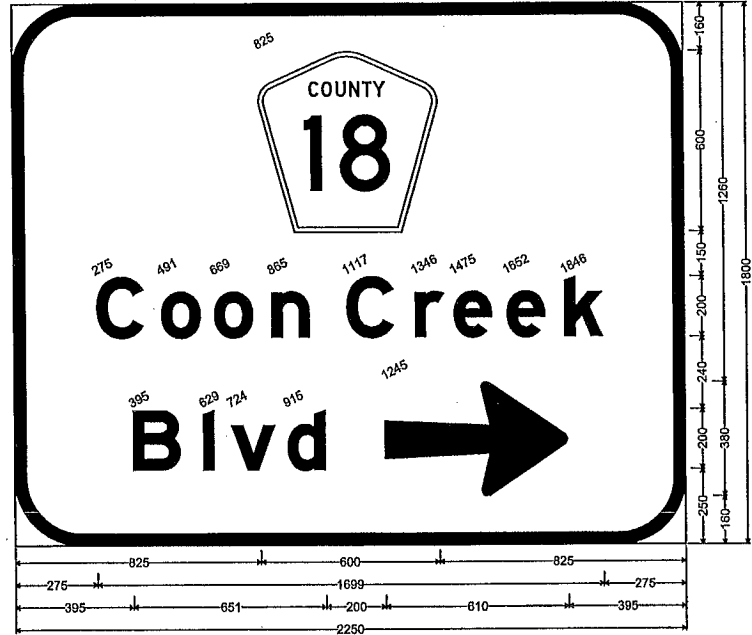
S.P. 0212-40 (T.H.242=242)	S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24	S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19	S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02	

SHEET NO.
302
539



152mm Radius, 32mm Border, White on Green;
[EAST] E Mod; Arrow 5 - 330mm 180°;

SIGN DETAIL
D-12



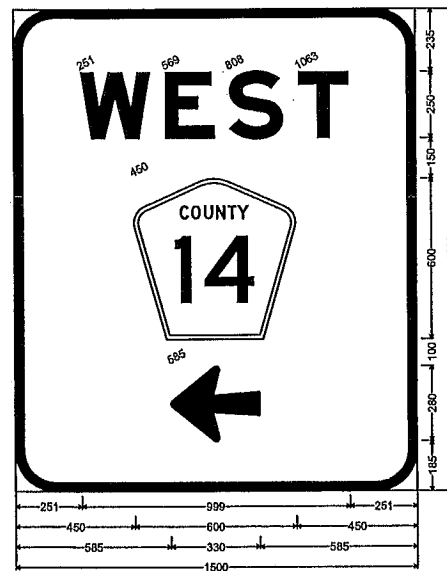
225mm Radius, 38mm Border, White on Green;
[CoonCreek] E Mod; [Blvd] E Mod; Arrow 15 - 610mm 0°;

SIGN DETAIL
D-6



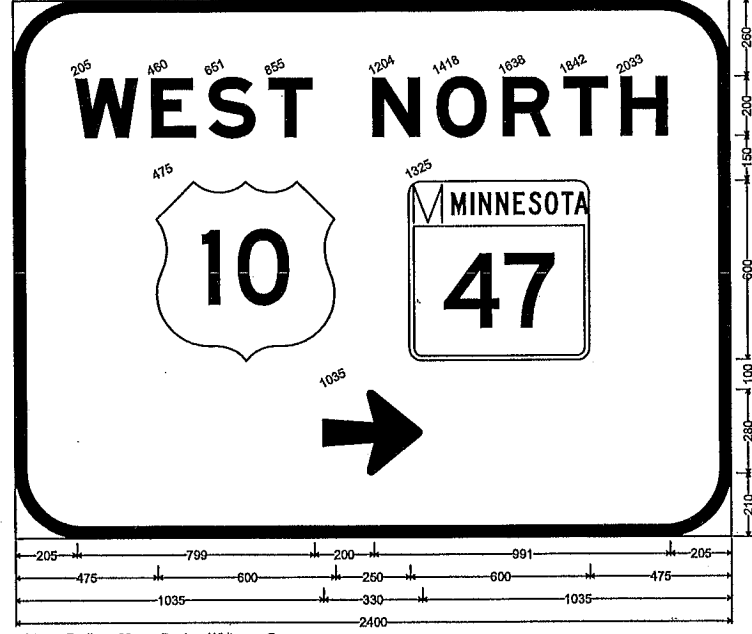
152mm Radius, 32mm Border, White on Green;
[EAST] E Mod; Arrow 5 - 330mm 0°;

SIGN DETAIL
D-11



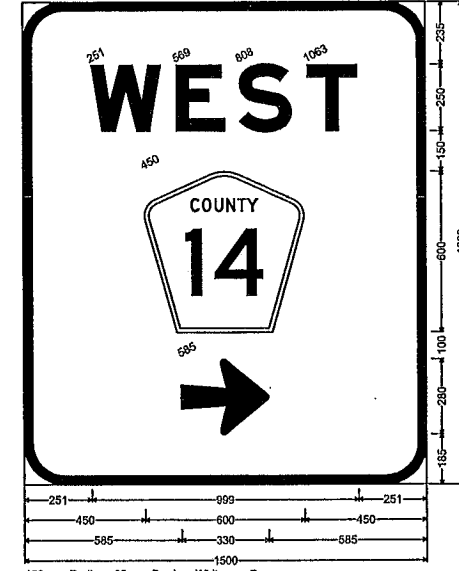
152mm Radius, 32mm Border, White on Green;
[WEST] E Mod; Arrow 5 - 330mm 180°;

SIGN DETAIL
D-10



225mm Radius, 38mm Border, White on Green;
[WEST NORTH] E Mod; Arrow 5 - 330mm 0°;

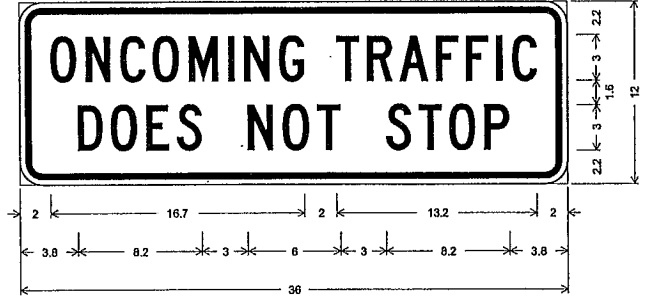
SIGN DETAIL
D-15



152mm Radius, 32mm Border, White on Green;
[WEST] E Mod; Arrow 5 - 330mm 0°;

SIGN DETAIL
D-13

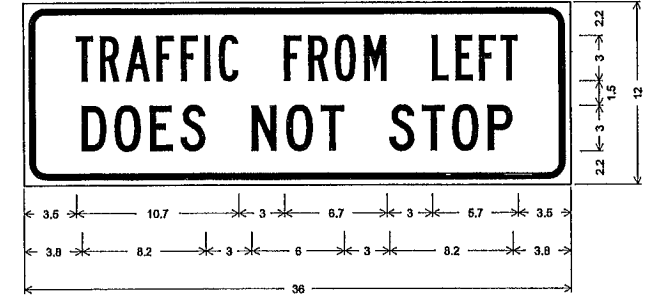
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



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

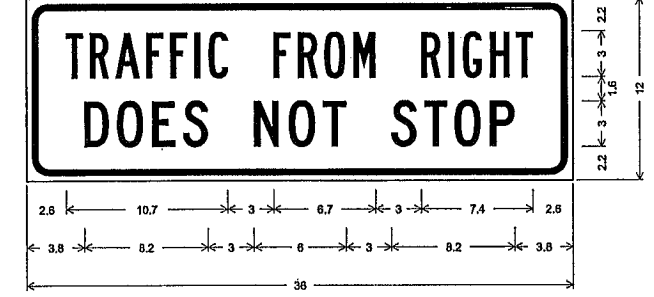
NOTE: DIMENSIONS FOR C-74 ARE IN INCHES



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



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

PLOT DATE: Jun 26, 2001 1:55pm DISK FILE NAME: (15.0) R:\33889\33889028\33889W\PLAN_SH1\RING\242WDET3.dwg

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	JKR	08/26/01	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
CHKD. BY: PBD/KPK	DWG. NAME: 242WDET3	DATE: NOVEMBER 5, 1999



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. Kiehl
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)	SHEET NO.
S.A.P. 02 - 614 - 19	303
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

D-SGN
2-ESUM
STRIPES
PBOX
2MHETO
2-AI 1W
2F

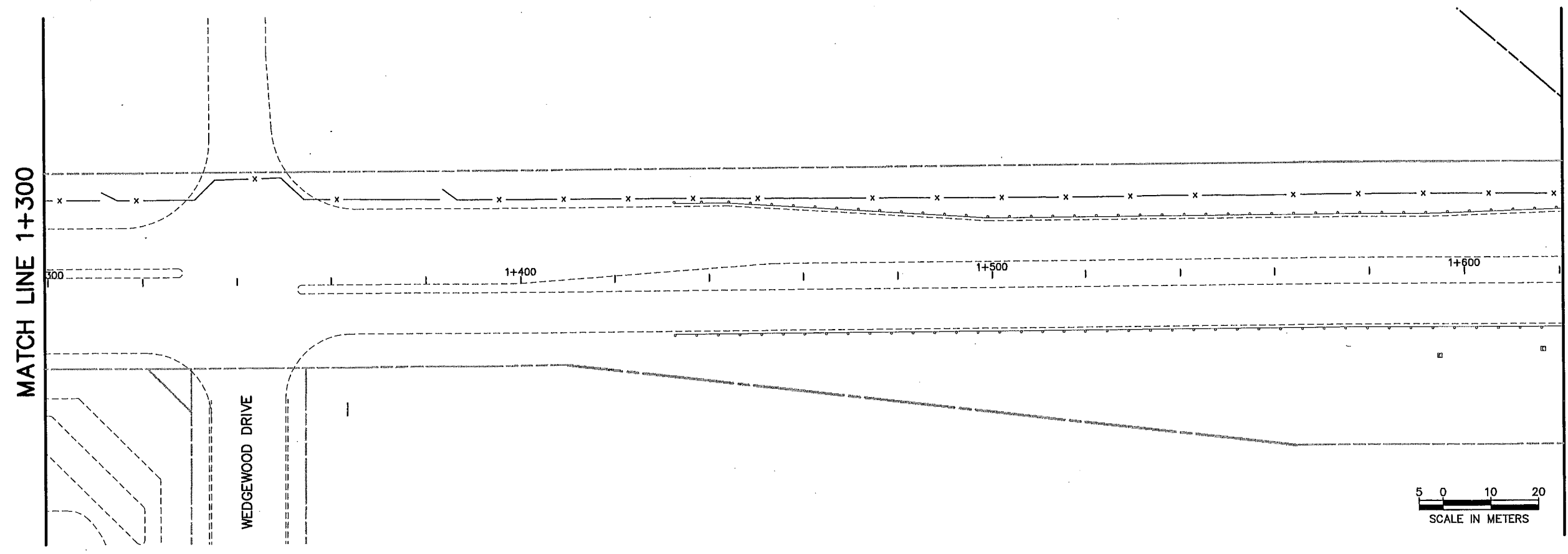
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33889\33889028\PLAN_S

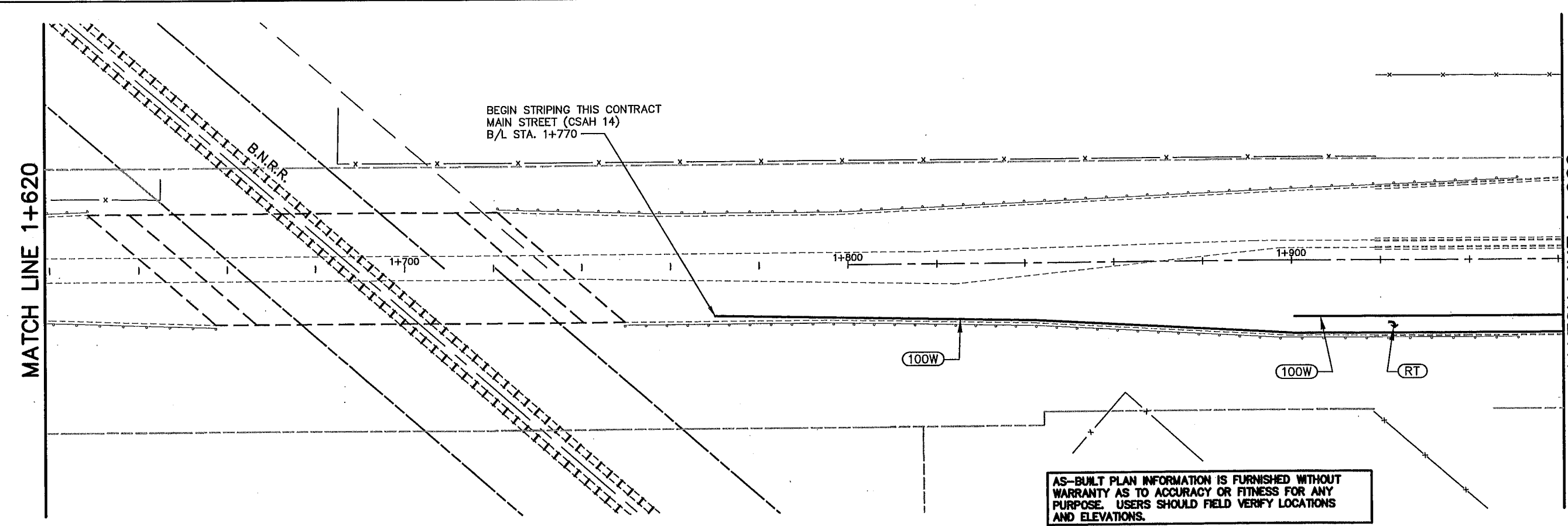
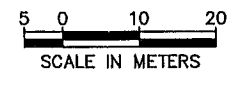
DISK FILE NAME: (15.06) R:

04 3:42pm

PLOT DATE: Apr 0



- 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.**
- HORIZONTAL SCALE IN METERS
-

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

CHKD. BY:
KPK

DWG. NAME:
242WSG08

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. Kuhl

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

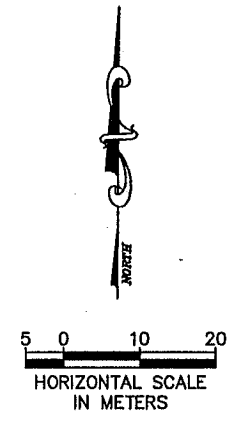
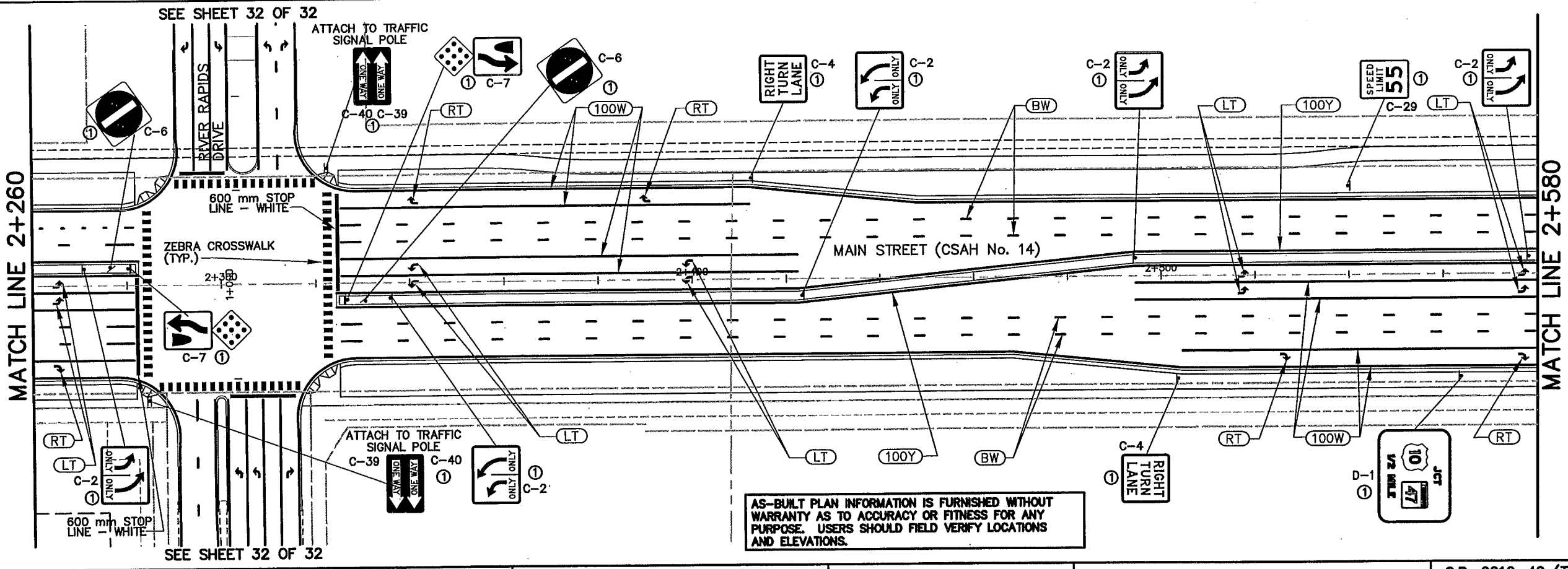
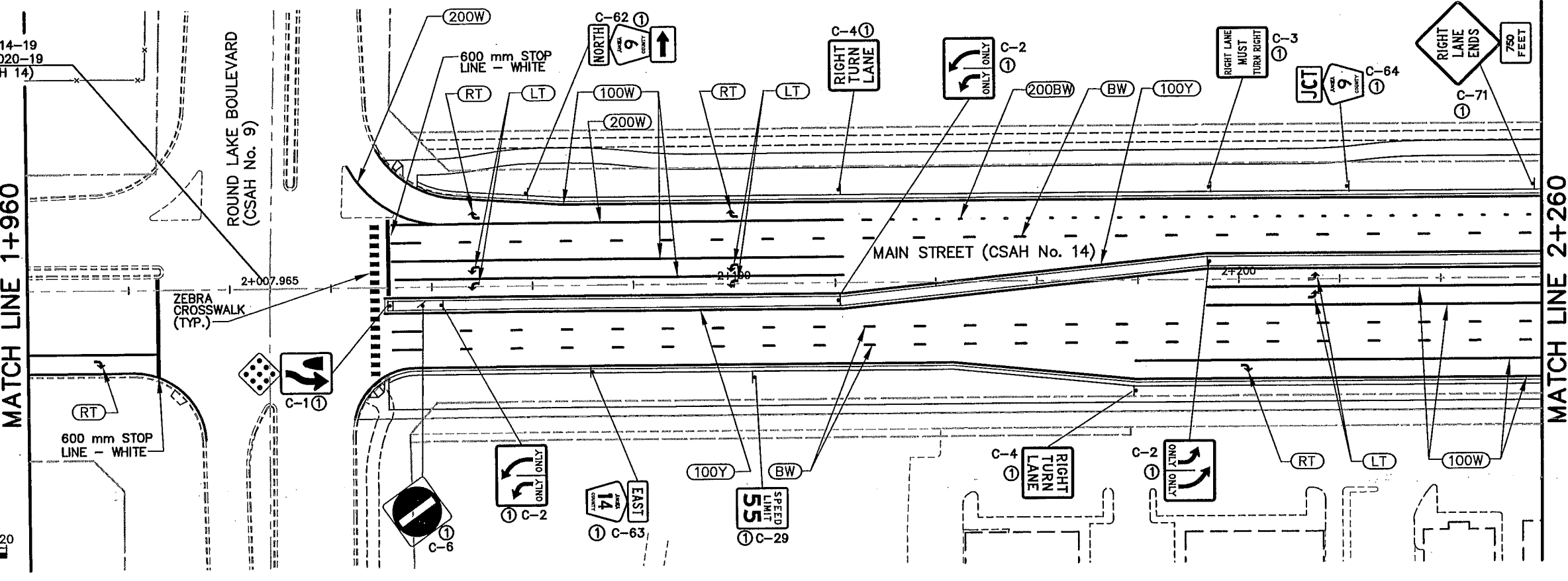
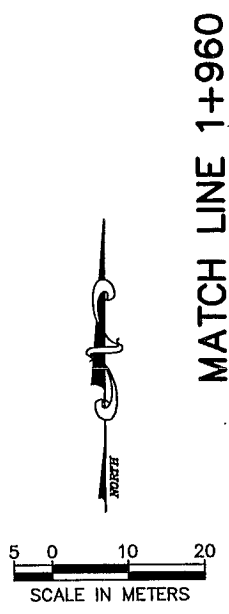
SHEET NO.
304
539

2-BASE
2-STRIPE
D-SGN
P-2M
2-2F

BEGIN S.A.P. 02-614-19
BEGIN S.A.P. 114-020-19
MAIN STREET (CSAH 14)
STA. 2+007.965

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	CHANGED "TH 242" TO "CSAH 14" AT BEGIN STA. DELETED SIGN LEGEND NOTES 3, 4, 5 & 6. CHANGED C-1 TO C-7 ON MAIN ST. MEDIAN AT RIVER RAPIDS DR. DELETED DIRECTIONAL ARROW FROM C-64 AS-BUILT DRAWING
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
 DRAWN BY: SLP
 DESIGN BY: SAW
 CHECKED BY: KPK
 DWG. NAME: 242WSG01
 DATE: NOVEMBER 5, 1999

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 320.02 TO 320.16.
Kevin P. Kell
 DATE: 11/5/99 MINN. REG. NO. 23211

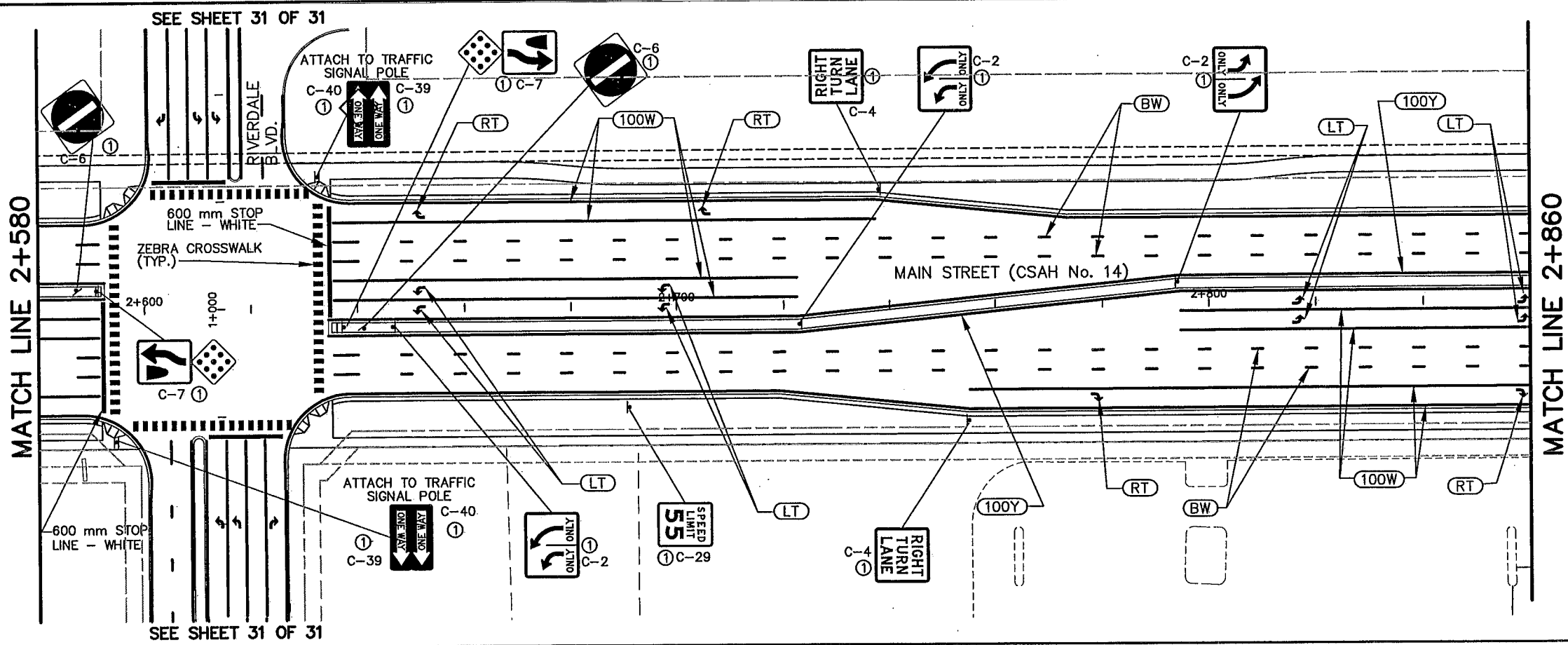
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
 SIGNING & STRIPING
 STATION 2+007.965 TO STATION 2+580.000
 CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02-614-19	305
S.A.P. 02-618-24	
S.A.P. 114-010-11	
S.A.P. 114-020-19	
S.A.P. 114-136-02	
S.A.P. 114-127-02	539

PLOT DATE: Apr 04 3:38pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S GRING\242wsg01.dwg

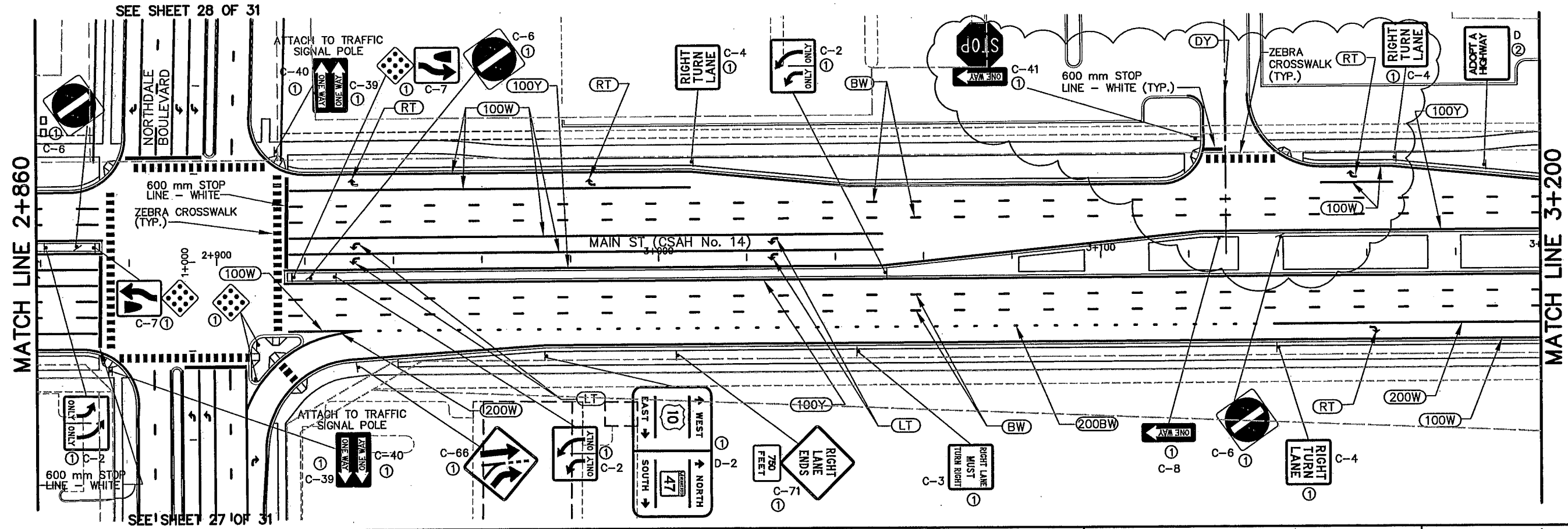
DRAWINGS
 -ESUM
 -EASE
 -STRIPES
 -BOX
 -SGN
 -MH
 -PLI

PLOT DATE: Apr 04, 2004 3:39pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_SHT\3RING\242wsg02.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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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. & NORTHALE BLVD.
2	JUL	7/5/00	MOD. REQ. #38: REVISED MENARD'S ENTRANCE
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028
 DRAWN BY: SLP
 DESIGN BY: SAW
 CHKD. BY: KPK
 DWG. NAME: 242WSG02
 DATE: NOVEMBER 5, 1999

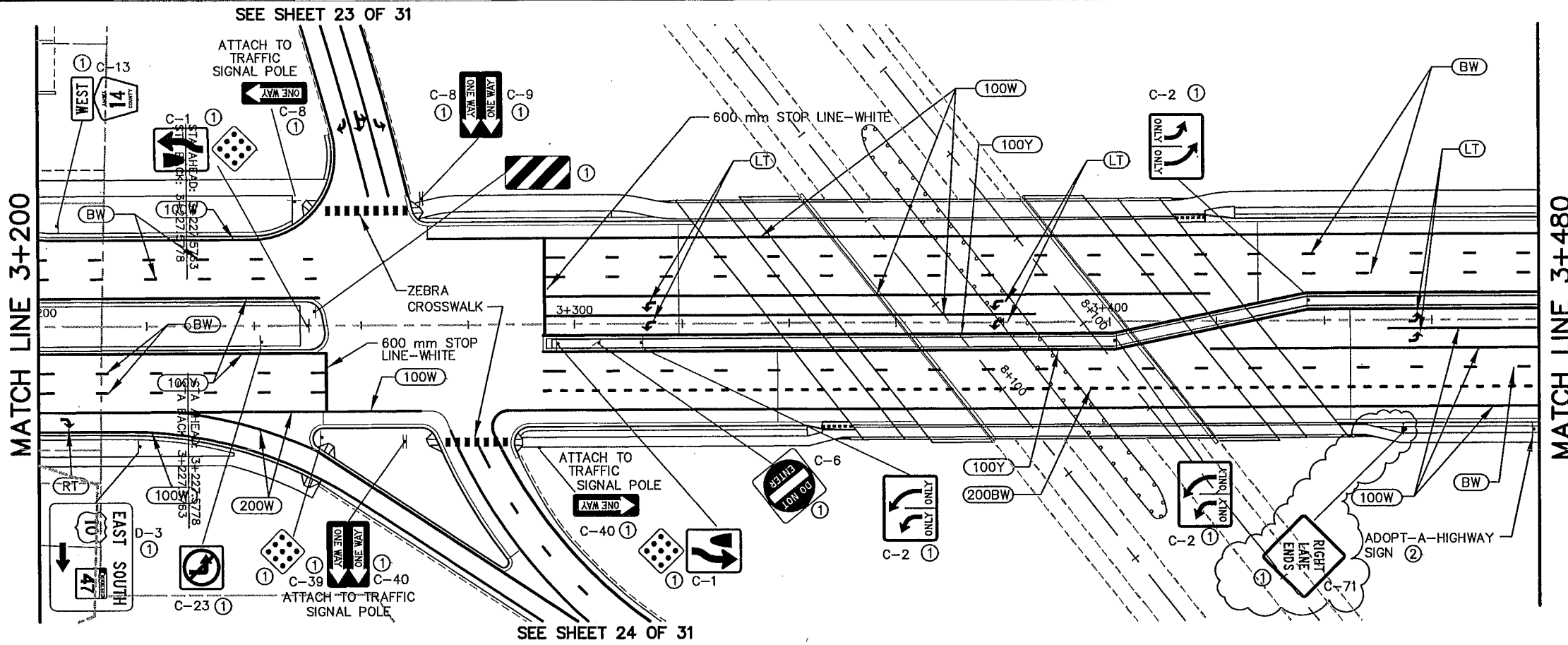
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THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

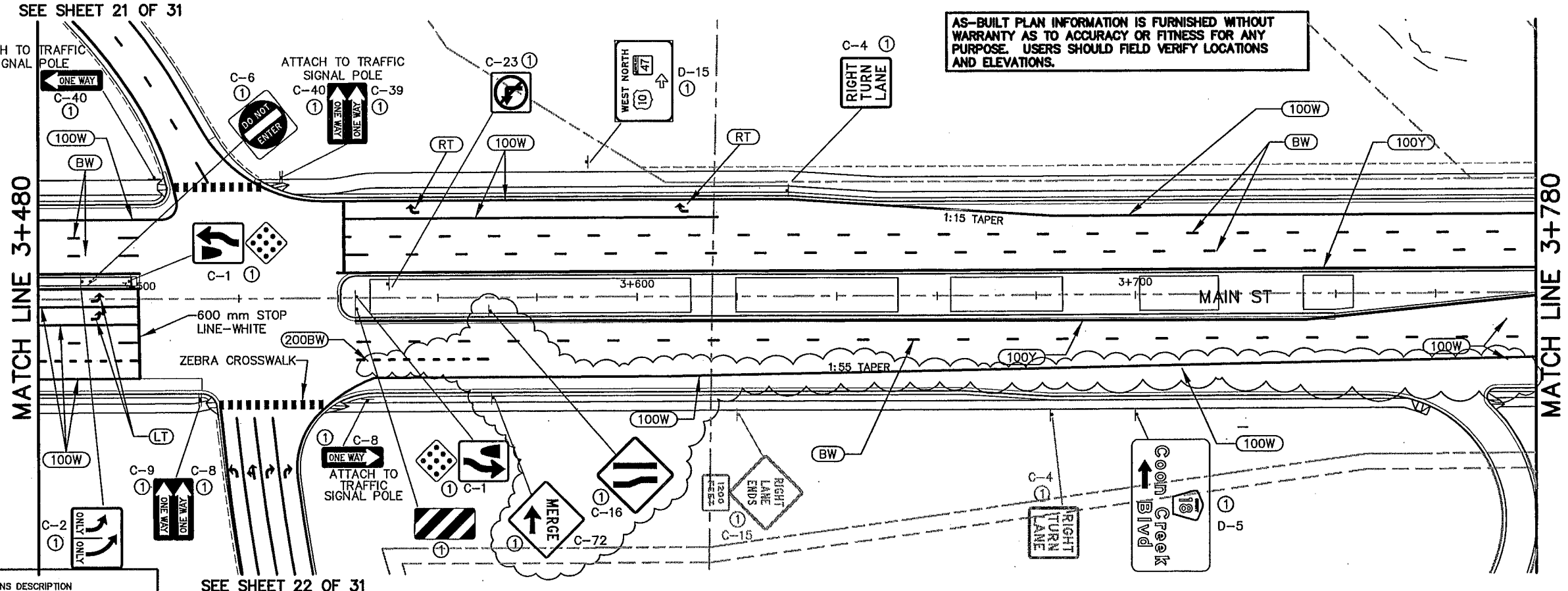
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P. Kellb
 DATE: 11/5/99 MINN. REG. NO. 23211

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)	SHEET NO.
S.A.P. 02 - 614 - 19	306
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 138 - 02	
S.A.P. 114 - 127 - 02	539



- 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



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	CHANGED END/BEGIN STA, ADDED SAP No. 4 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	JUL	7/5/00	MOD. REQ. #38: REMOVED RETAINING WALL
3	JUL	8/13/01	MOD. REQ. #77: REVISED SIGNS
4	JUL	7/30/01	MOD. REQ. #106: REVISED SIGNS AND STRIPING
7	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: IKR/SLP	DESIGN BY: SAW
CHKD. BY: KPK	DWG. NAME: 242ESG01	DATE: NOVEMBER 5, 1999

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

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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Kevin P. Kiel

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

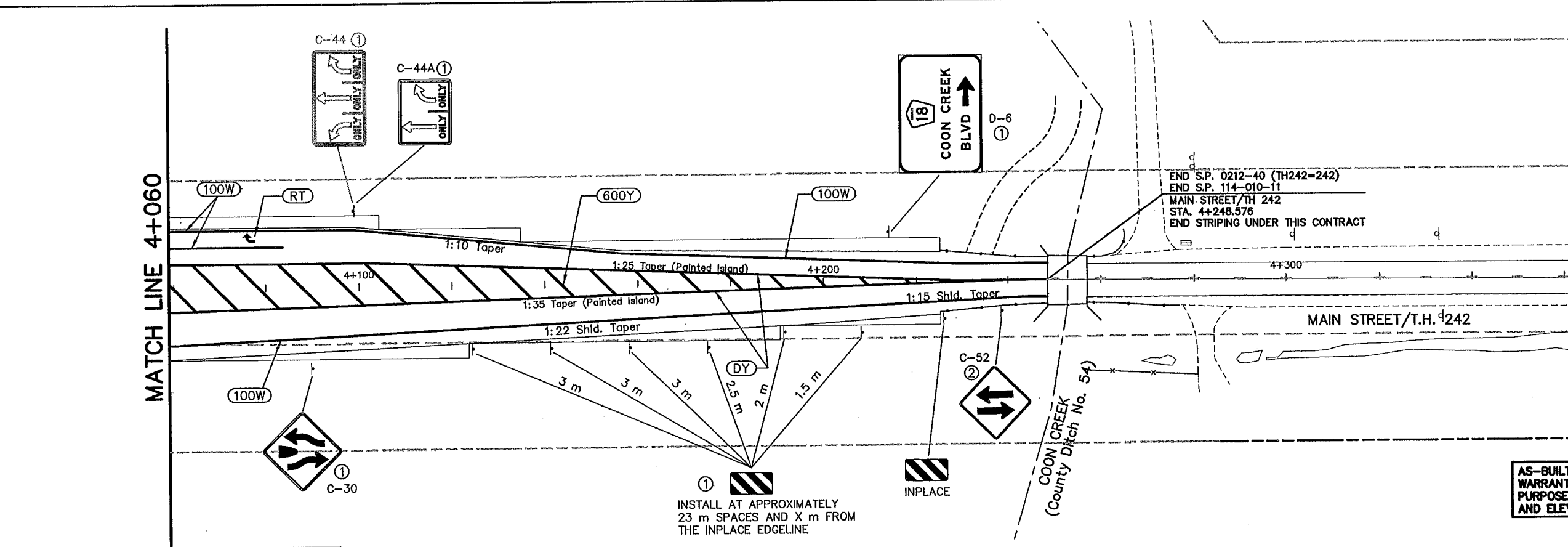
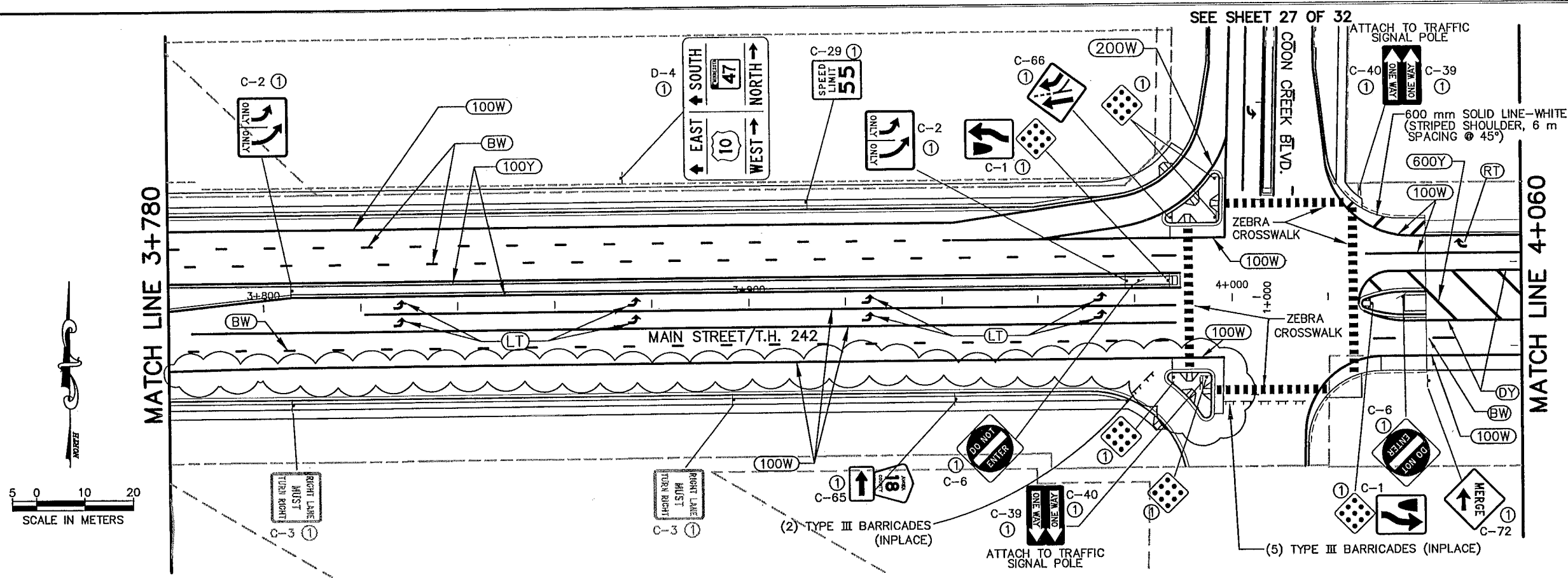
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14/T.H.242)
SIGNING & STRIPING
STATION 3+200.000 TO STATION 3+780.000

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	

2MHETO
2PLN2A
2-ESUM
STRIP
PBOX
2E
2E

PLOT DATE: Aug 03, 2004 12:08pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\PLAN-SHT-zesg02.dwg



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 PAVT. 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	JLL	6/13/01	MOD. REQ. #77: ADD X4-4 & W20-X3L, DEL. W9-1R
4	JLL	7/12/01	MOD. REQ. #103: MODIFIED MEDIAN STRIPING
5	JLL	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

CHKD. BY: KPK DWG. NAME: 242ESG02

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)
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

20 OF 31

SHEET NO. 308

539

PERMANENT SIGNING LEGEND

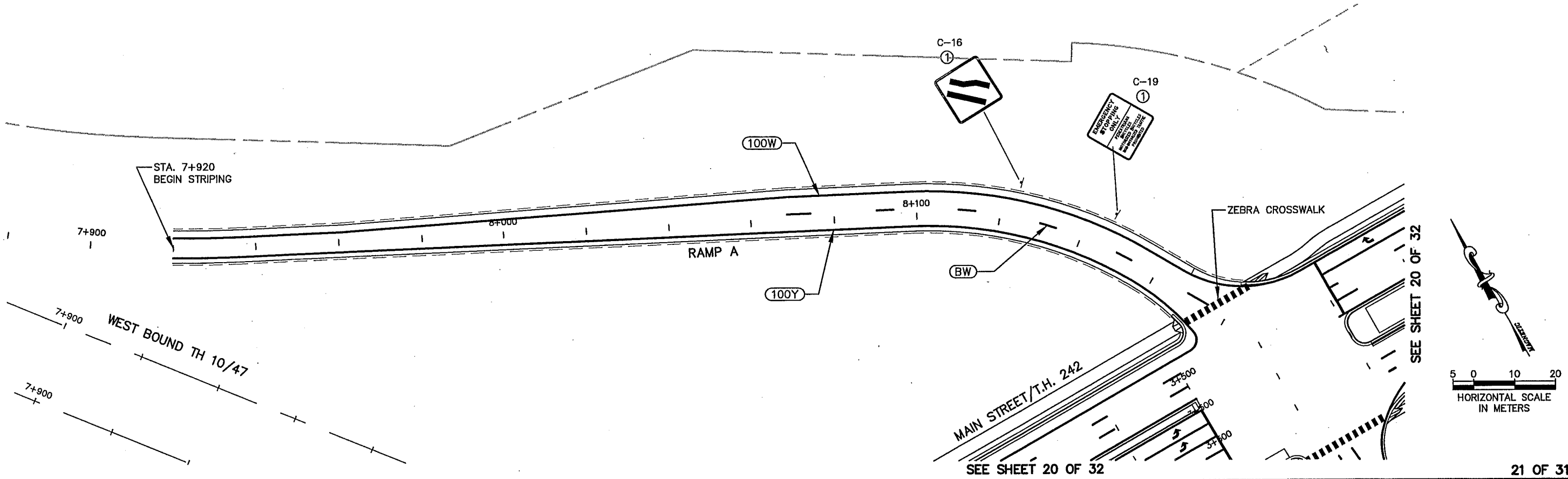
- ① FURNISH AND INSTALL
- ② SALVAGE AND INSTALL

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

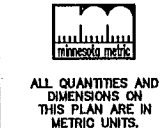
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PLOT DATE: Dec 24, 1999 10:20am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH\2esg04.dwg

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
CHKD. BY: KPK	DWG. NAME: 242ESG04
DATE: NOVEMBER 5, 1999	



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Kevin P. Kullb
 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

SEE SHEET 20 OF 32

SEE SHEET 22 OF 32

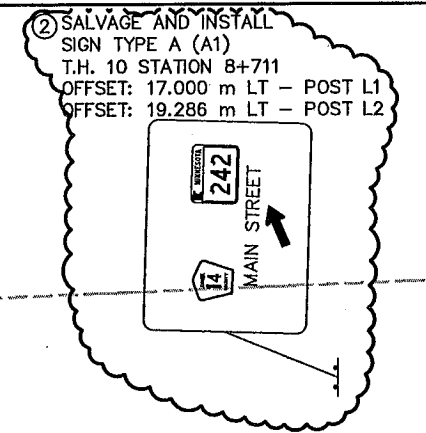
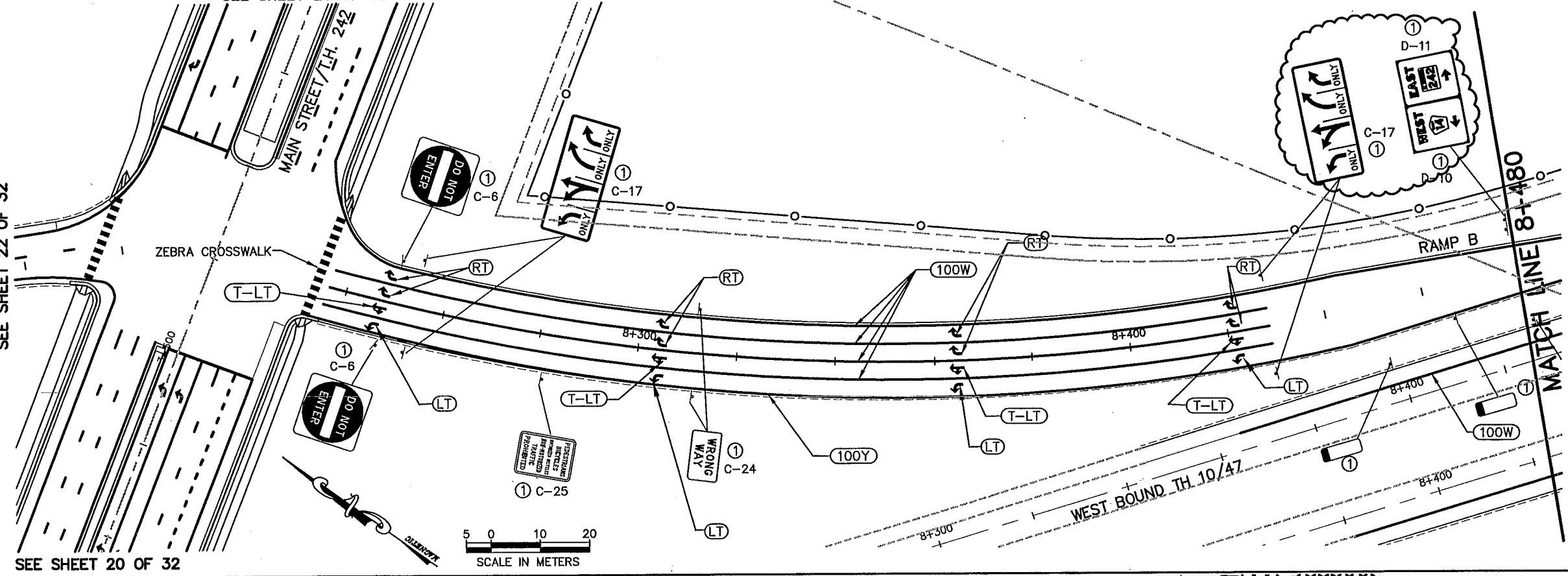
SEE SHEET 20 OF 32

PERMANENT SIGNING LEGEND

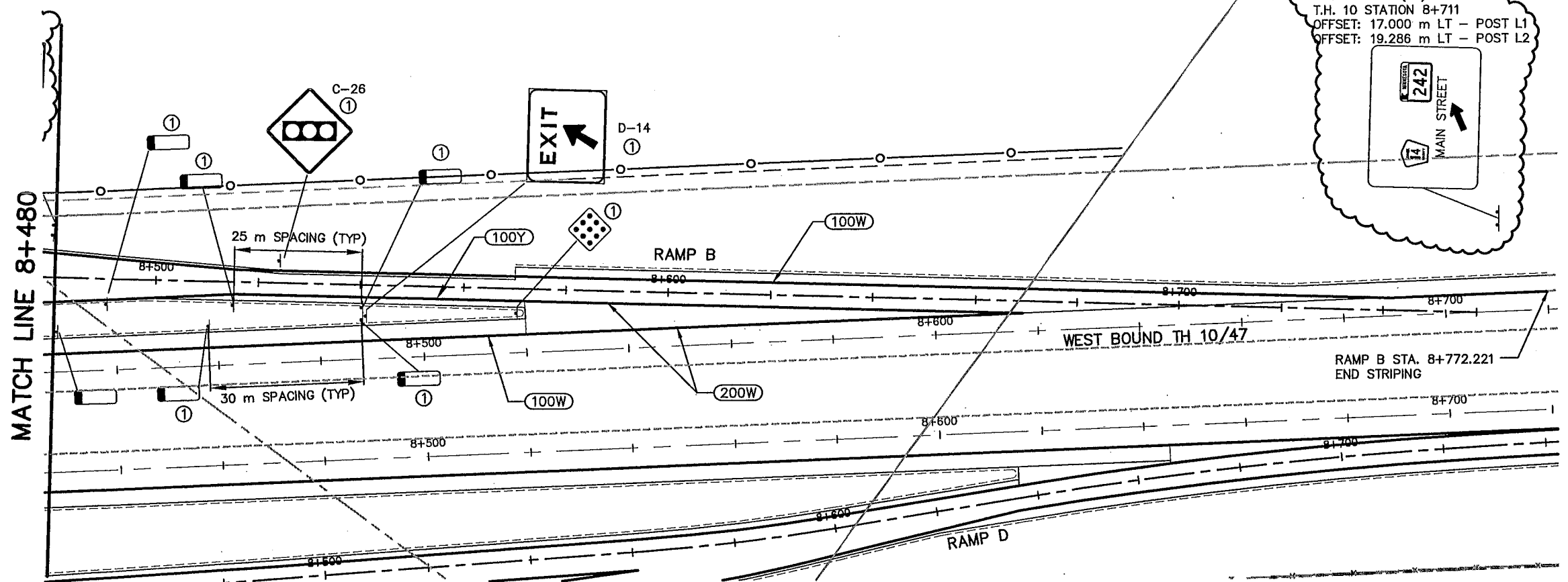
- ① FURNISH AND INSTALL
 - ② SALVAGE AND INSTALL
- SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

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 - 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	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

CHKD. BY:
KPK

DWG. NAME:
242ESG05

DATE:
NOVEMBER 5, 1999

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Kevin P. Kullb

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

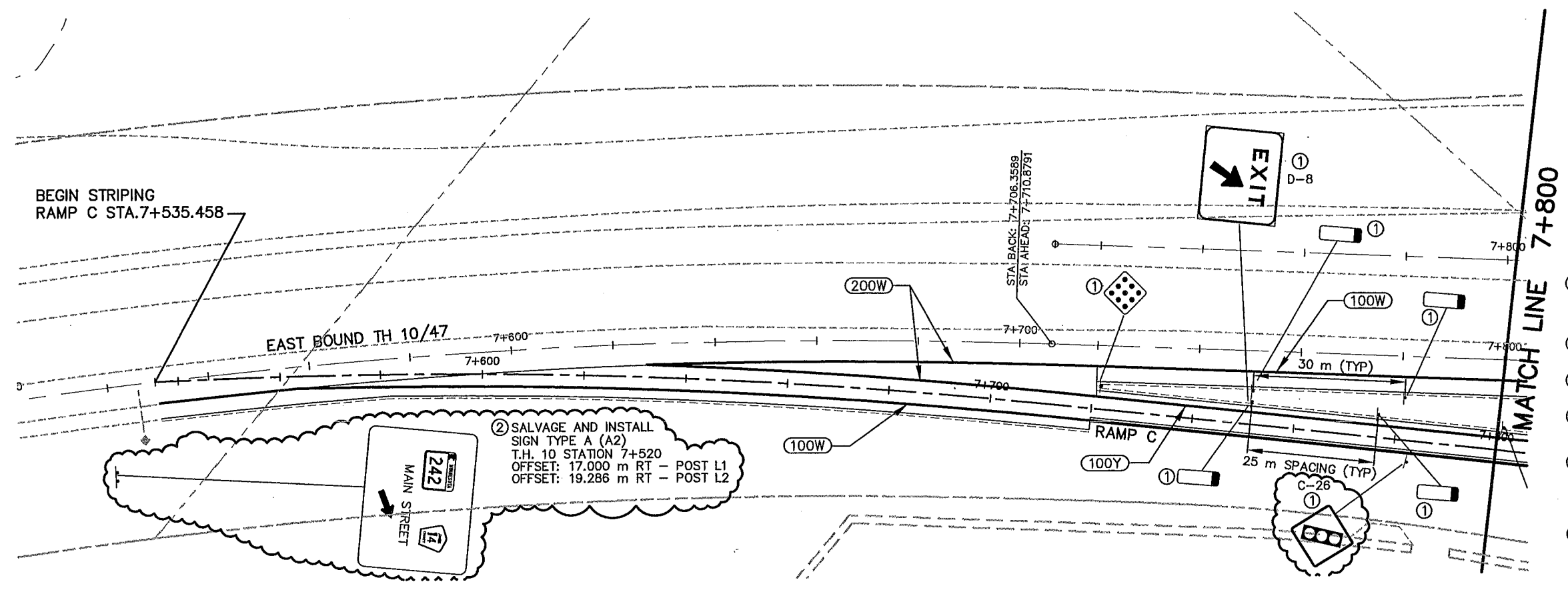
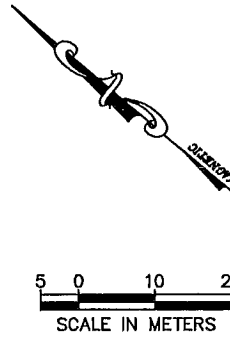
CITY PROJECT 98-20

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

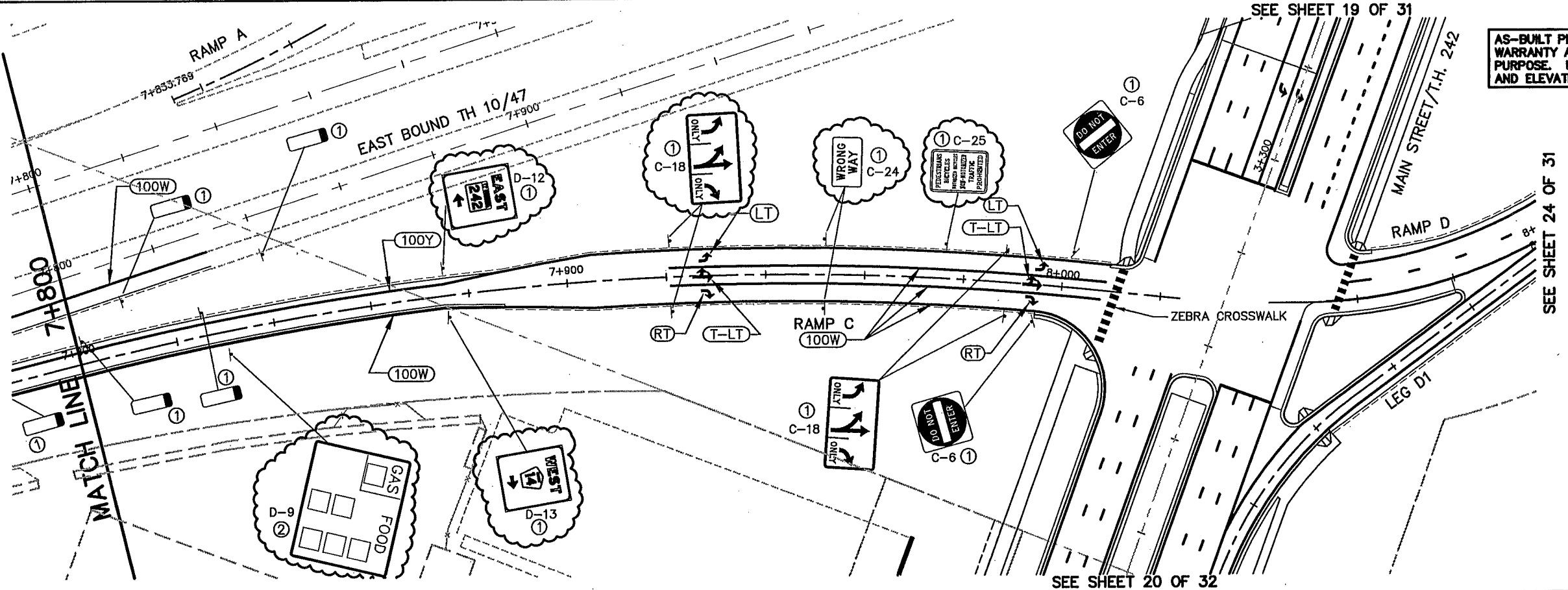
SHEET NO.
310

539

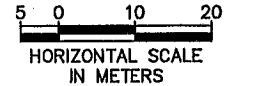
BEGIN STRIPING
RAMP C STA. 7+535.458



- 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	JKR	12/30/99	DELETED SIGNING LEGEND NOTES 3, 4, 5, & 6
2	JLL	7/5/00	MOD. REQ. #38: REMOVED RETAINING WALL
3	SAW	7/19/00	MOD. REQ. #12: TYPE "A" SIGN LOC./NOTE, D-13 NOTE C-28, 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: JKR/SLP	DESIGN BY: SAW
CHKD. BY: KPK	DWG. NAME: 242ESG06	DATE: NOVEMBER 5, 1999

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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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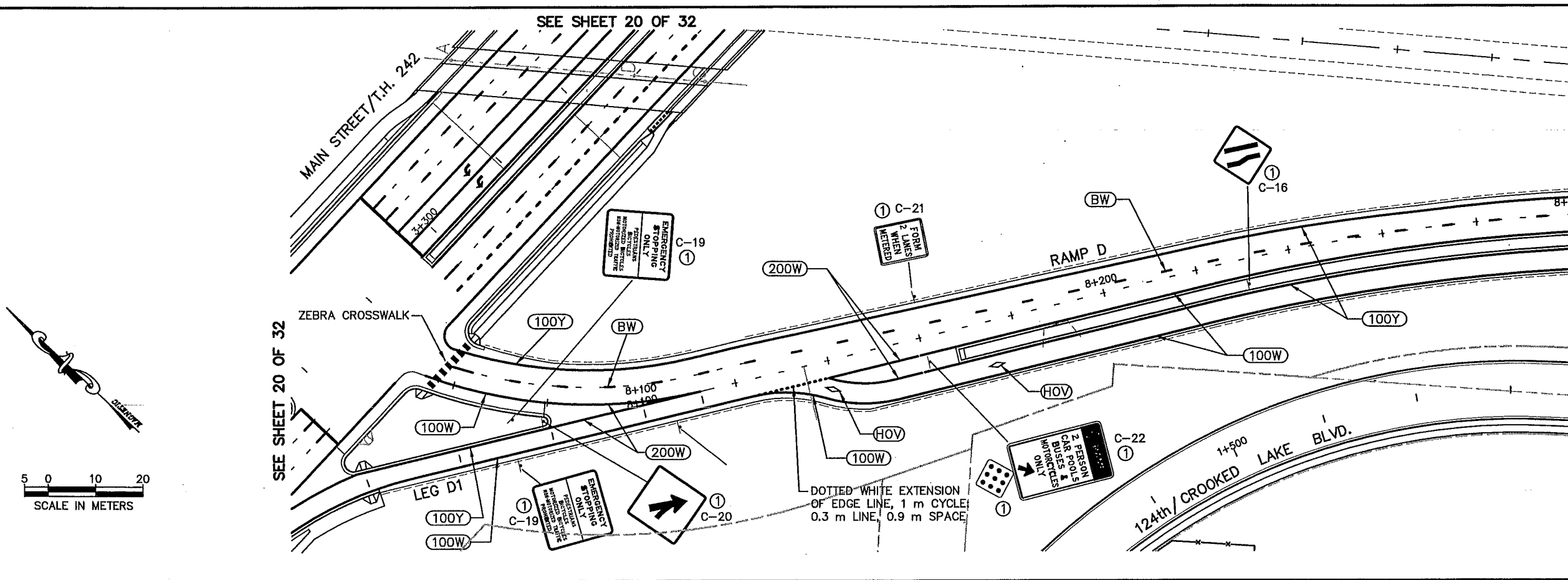
Kevin P. Kuhl

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)	SHEET NO.
S.A.P. 02 - 614 - 19	311
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

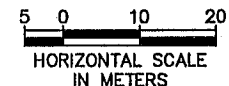
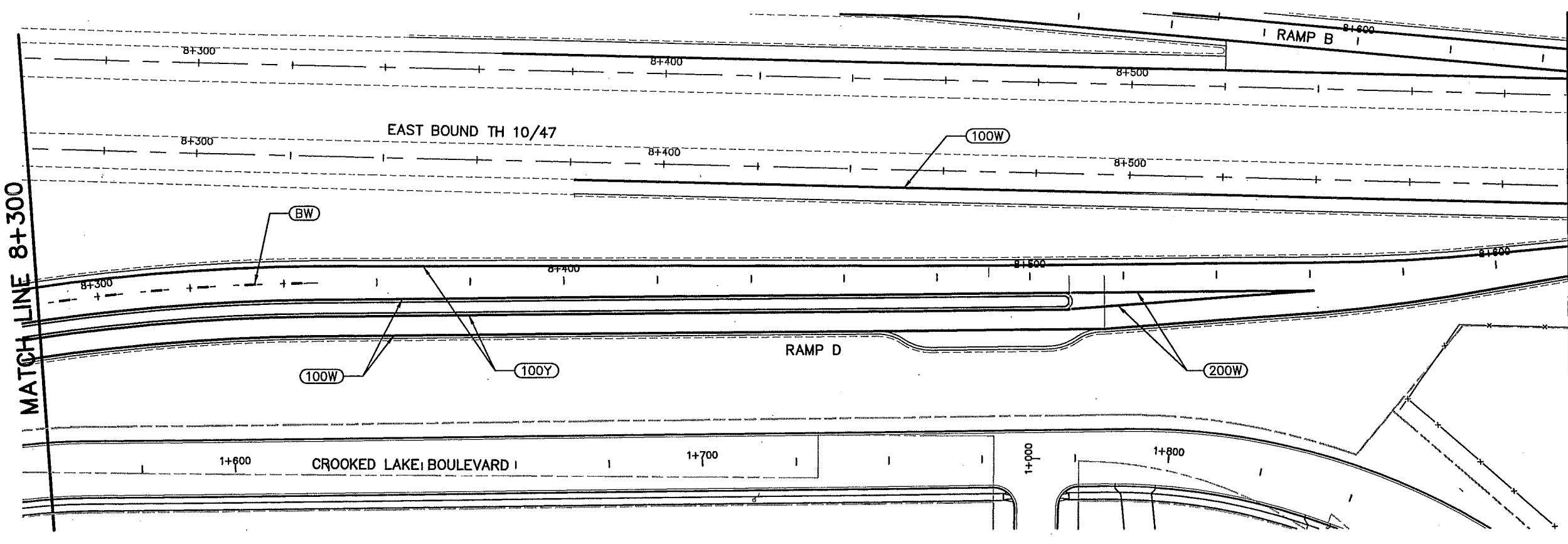
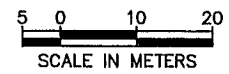


PERMANENT SIGNING LEGEND

- 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 ADDED RAMP D PATROL PAD AS-BUILT DRAWING
2	TSR	2/27/04	

DESIGN FILE: 33889028	
DRAWN BY: IKR/SLP	DESIGN BY: SAW
CHKD. BY: KPK	DWG. NAME: 242ESG07
DATE: NOVEMBER 5, 1999	




THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

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A DAMES & MOORE GROUP COMPANY

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Kevin P. Kullb

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

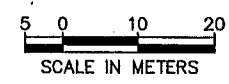
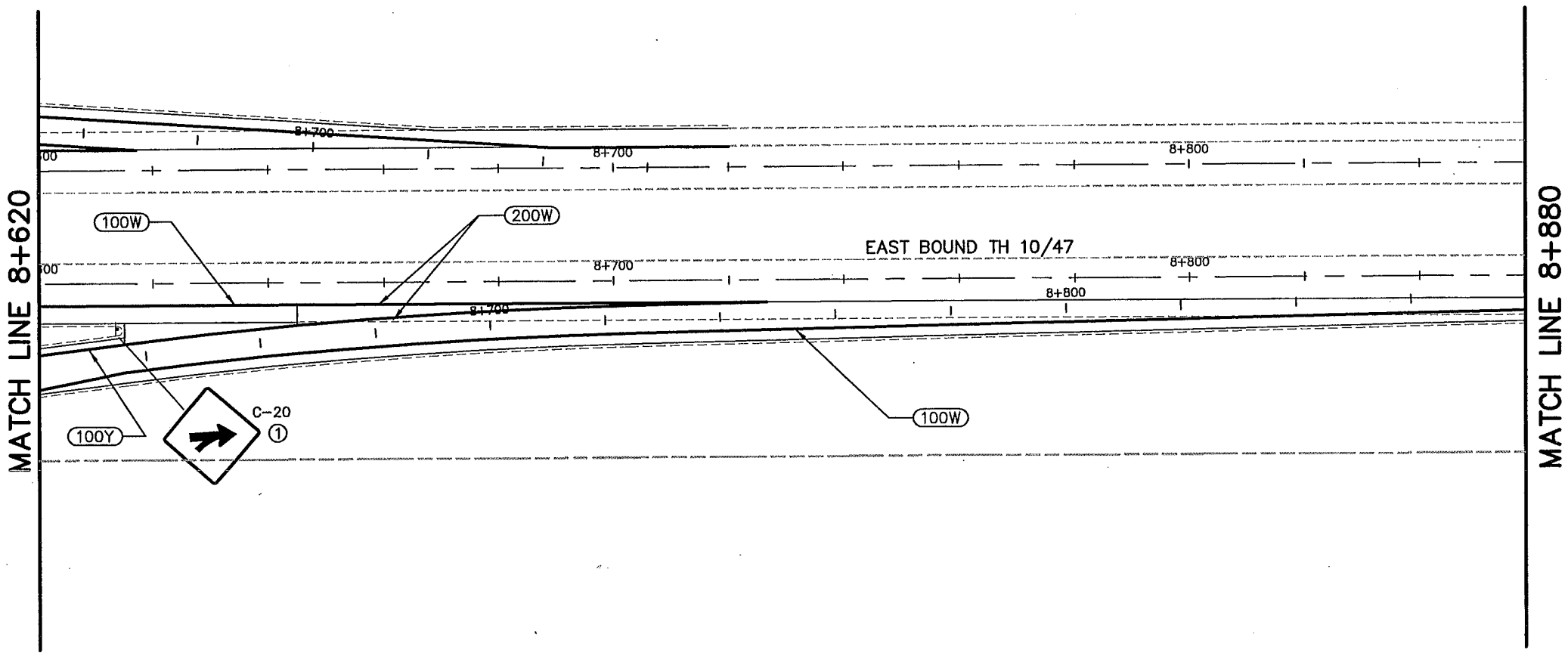
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D & 242 LEG D1
 SIGNING & STRIPING
 RAMP D: STATION 8+049.181 TO STATION 8+620.000
 LEG D1: STATION 8+002.908 TO STATION 8+112.468
 CITY PROJECT 98-20

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 10:25am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH...2esg08.dwg

42-ESUM
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APBOX
42MHETO
42E-PLN
42E-ALI

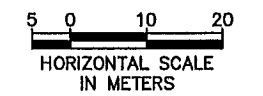
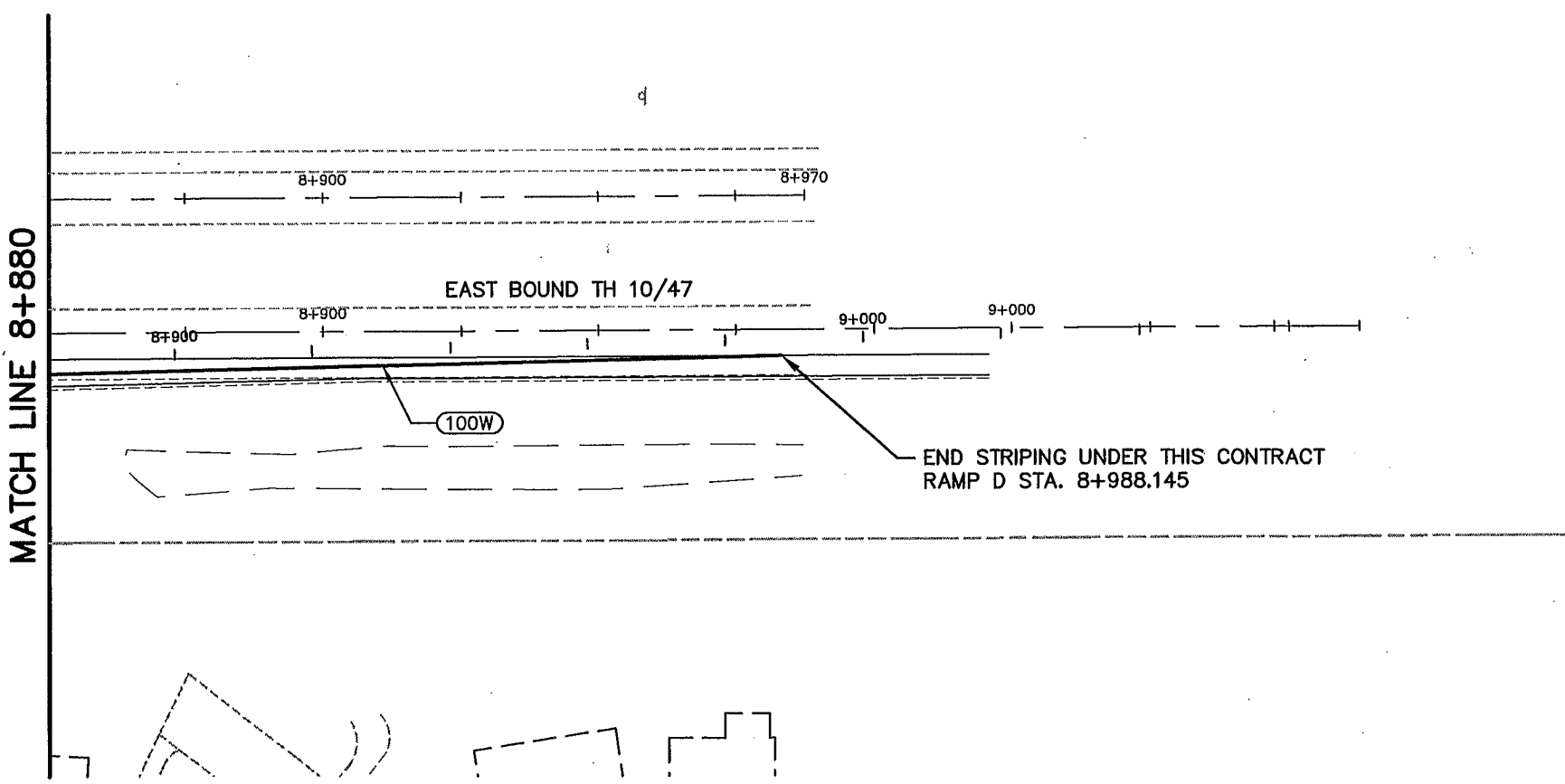


PERMANENT SIGNING LEGEND

- 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.

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

CHKD. BY:
KK

DWG. NAME:
242ESGOB

DATE:
NOVEMBER 5, 1999



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

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

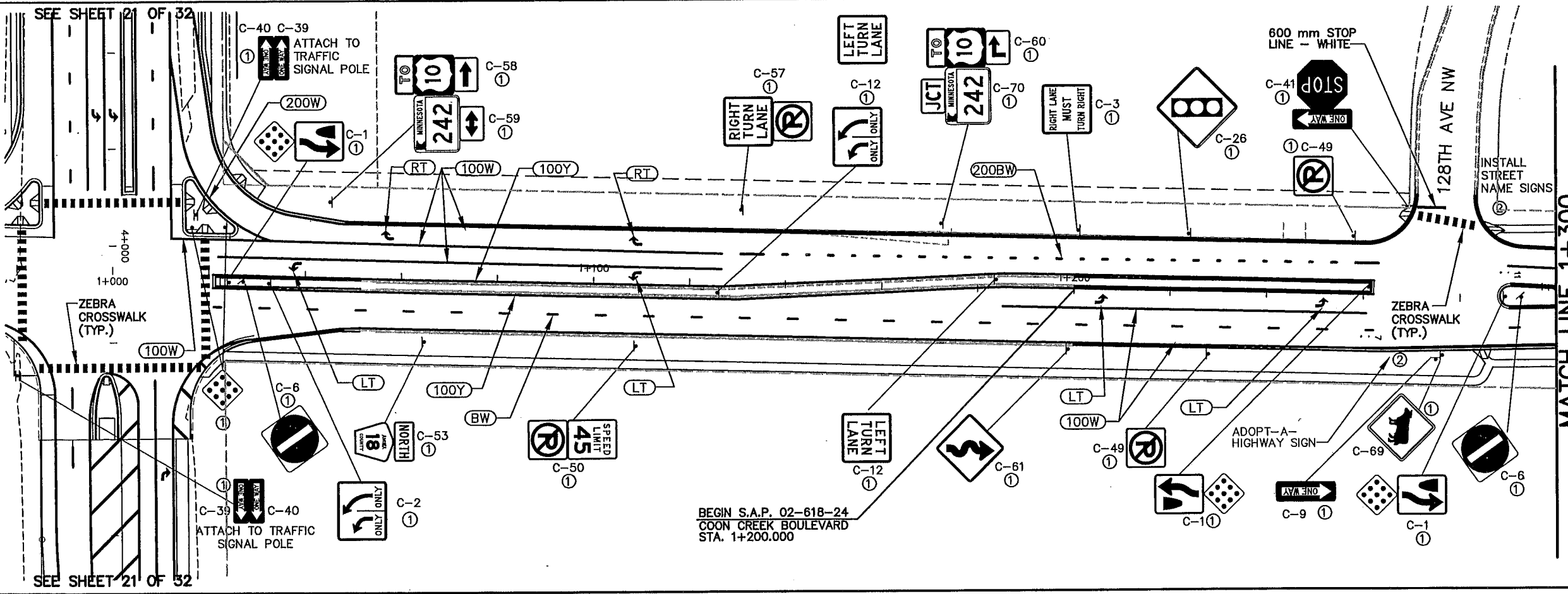
S.A.P. 114 - 020 - 19

S.A.P. 114 - 136 - 02

S.A.P. 114 - 127 - 02

SHEET NO.
313

539



PERMANENT SIGNING LEGEND

① FURNISH AND INSTALL
② SALVAGE AND INSTALL

SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

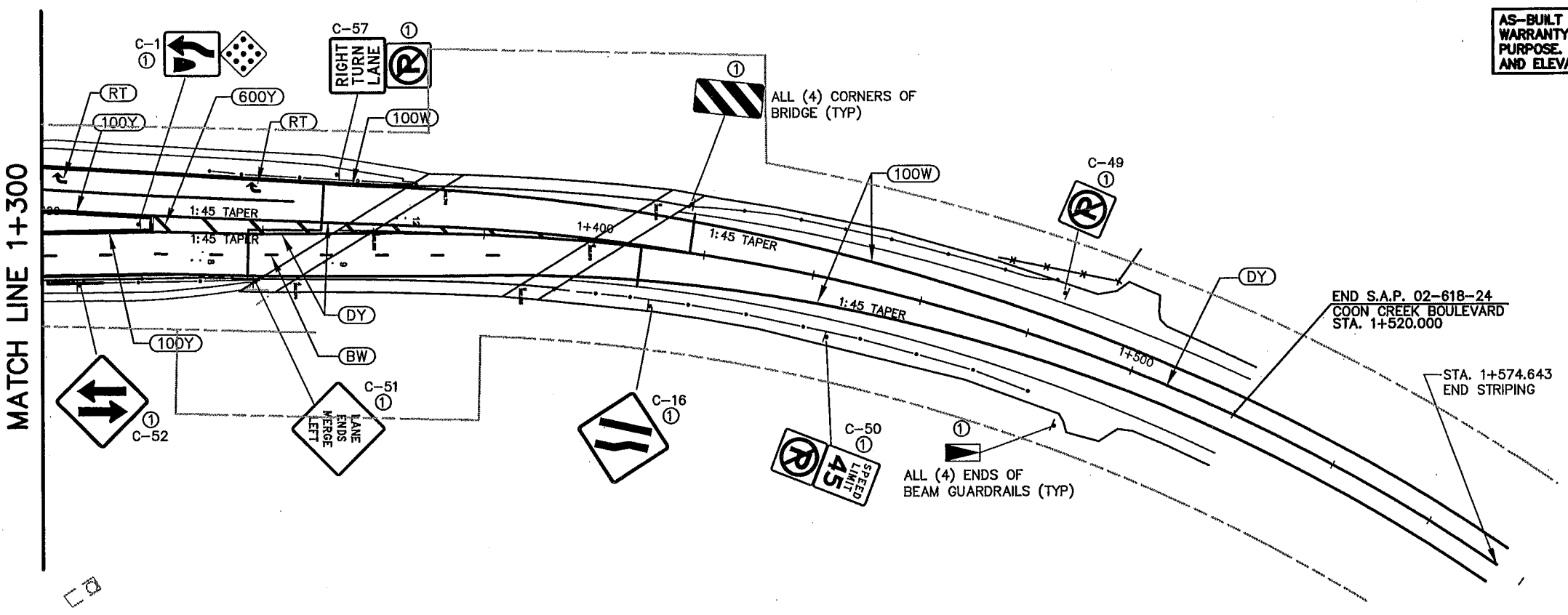
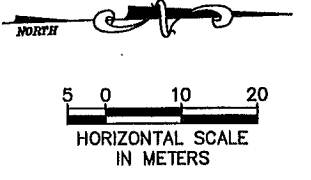
100W 100 mm SOLID LINE-WHITE
 BW 100 mm BROKEN LINE-WHITE
 10 m CYCLE: 2 m LINE, 8 m SPACE
 200BW 200 mm BROKEN LINE-WHITE
 5 m CYCLE: 1 m LINE, 4 m SPACE
 200W 200 mm SOLID LINE-WHITE (CHANNELIZING)
 100Y 100 mm SOLID LINE-YELLOW
 DY 100 mm DOUBLE SOLID YELLOW
 600Y 600 mm SOLID LINE-YELLOW (PAINTED ISLAND - 8 m SPACING @ 45°)
 RT PAVEMENT MESSAGE, RT.
 T-RT PAVEMENT MESSAGE, THRU/RT
 LT PAVEMENT MESSAGE, LT.
 HOV PAVEMENT MESSAGE, HOV DIAMOND

BEGIN S.A.P. 02-618-24
COON CREEK BOULEVARD
STA. 1+200.000

END S.A.P. 02-618-24
COON CREEK BOULEVARD
STA. 1+520.000

STA. 1+574.643
END STRIPING

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PLOT DATE: Dec 24, 1999 10:27am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\PLAN-SH-242ESG09.dwg

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

CHKD. BY:
PBD/KPK

DWG. NAME:
242ESG09

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. Kuhl

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**

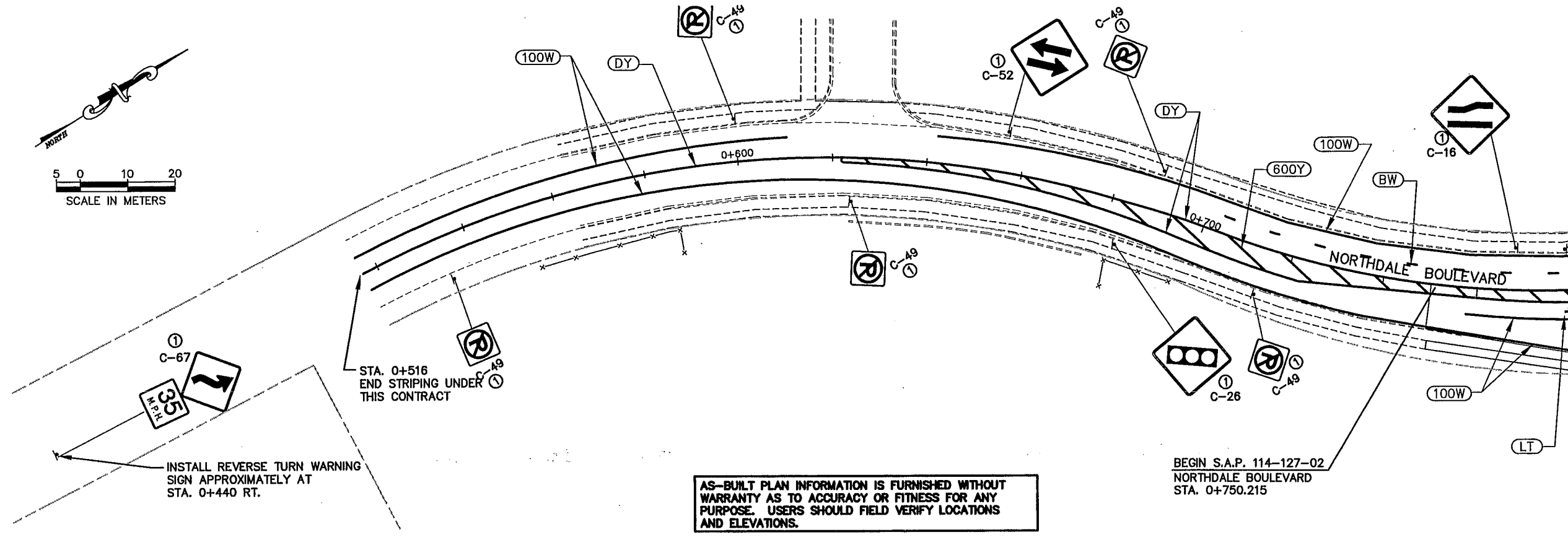
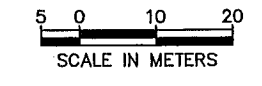
CITY PROJECT 98-20

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

ESUM
STRIP
BOX
SIGN
MHTO
ALW
PL



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

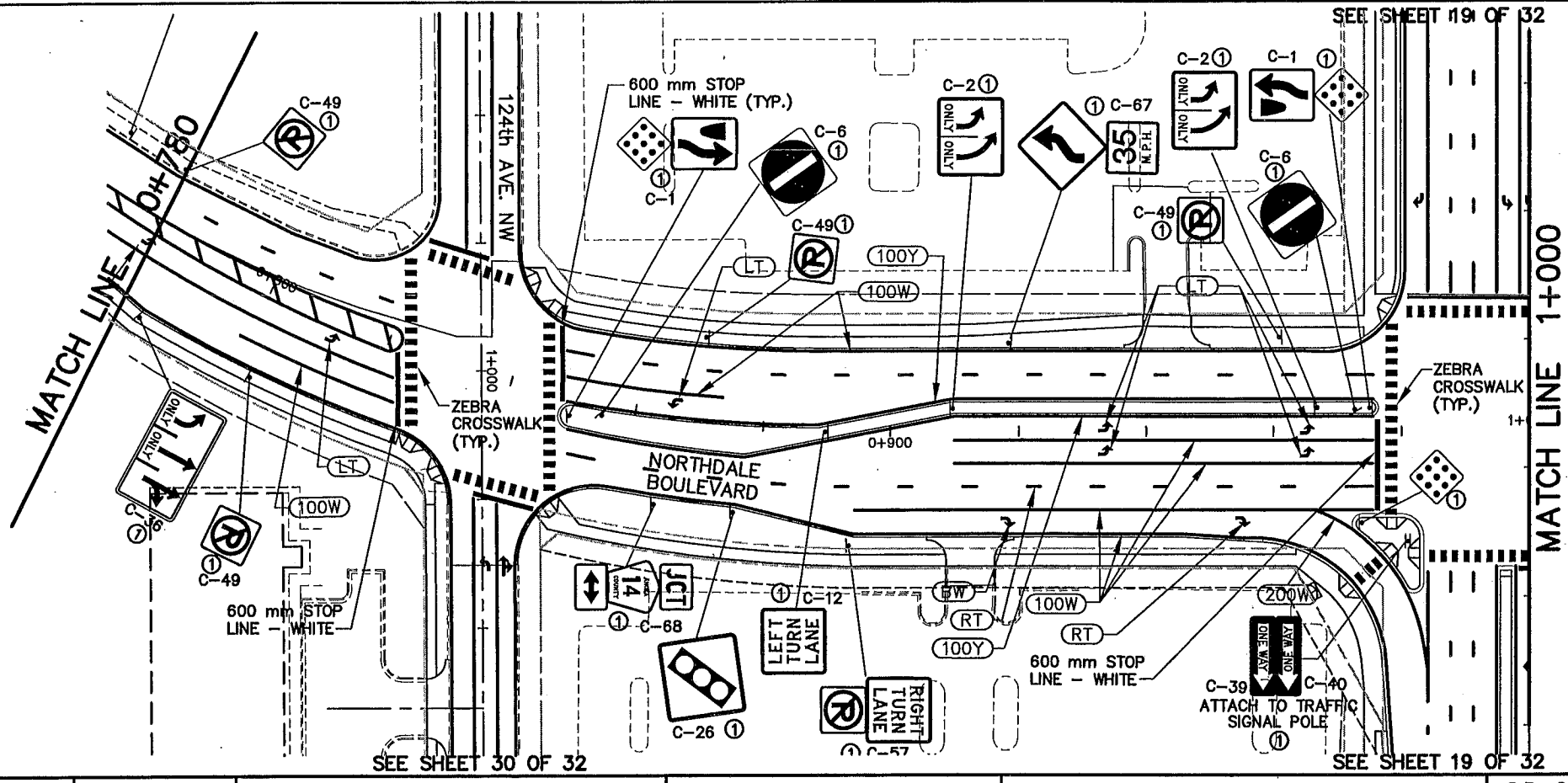
INSTALL REVERSE TURN WARNING SIGN APPROXIMATELY AT STA. 0+440 RT.

STA. 0+516
END STRIPING UNDER THIS CONTRACT

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

BEGIN S.A.P. 114-127-02
NORTHDALE BOULEVARD
STA. 0+750.215

PLOT DATE: Apr 04 3:39pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S\CRING\242wsg03.dwg



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

CHKD. BY: KPK
DWG. NAME: 242WSG03

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. Kuhl

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

PERMANENT SIGNING LEGEND

- ① FURNISH AND INSTALL
 - ② SALVAGE AND INSTALL
- SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

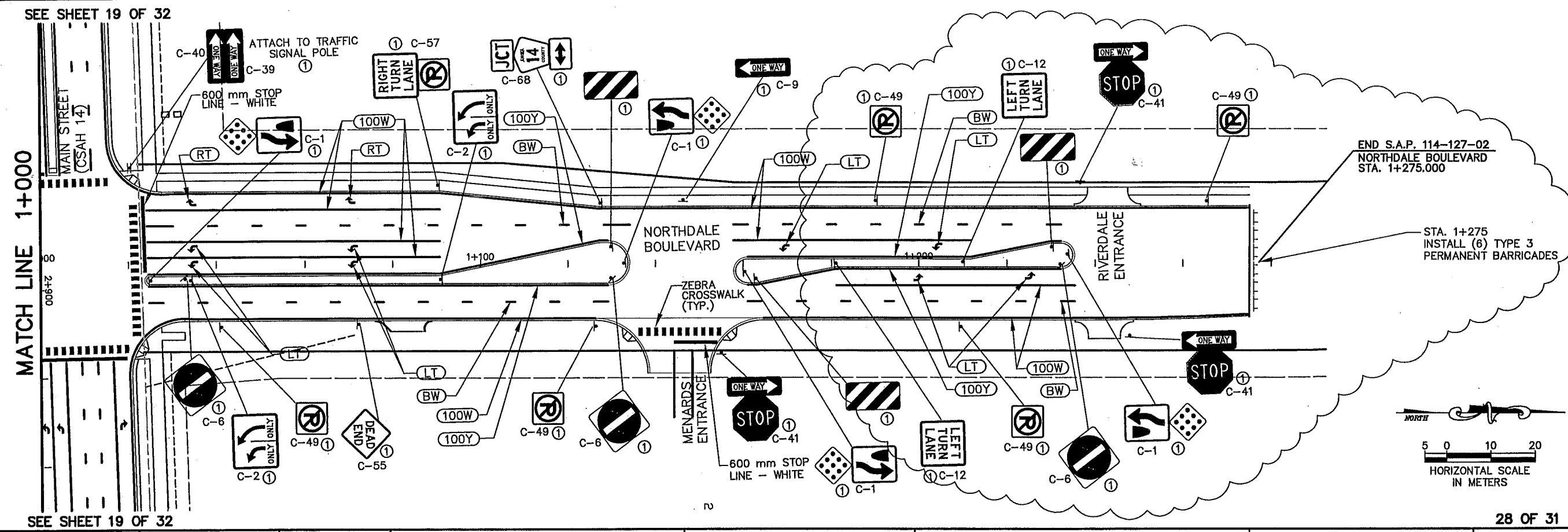
PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

- (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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DRAWINGS BOX - SON ITRWPE HHTO - APLW PLNW

PLOT DATE: Apr 04 3:40pm DISK FILE NAME: (15.06) R:\33889\33889028\33889\PLAN_5 IGRING\242wsg04.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/98	DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	PMJ	9/29/00	MOD. REQ. #89: REVISED ND BLVD SIGNS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: SLP	DESIGN BY: SAW
CHKD. BY: KPK	DWG. NAME: 242WSG04	
DATE: NOVEMBER 5, 1999		

ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.
 BRW
 A DAMES & MOORE GROUP COMPANY
 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.**
SIGNING & STRIPING
STATION 1+000.000 TO STATION 1+288.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	316
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	539
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

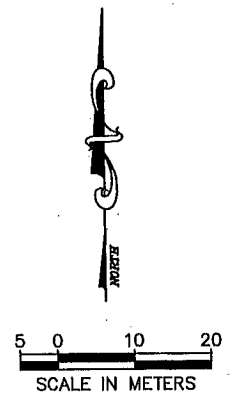
STRIP
BO
-S
MH
-A
PLN

PLOT DATE: Apr 004 3:40pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_ INGRING\242\33889028.dwg

SEE SHEET 28 OF 32

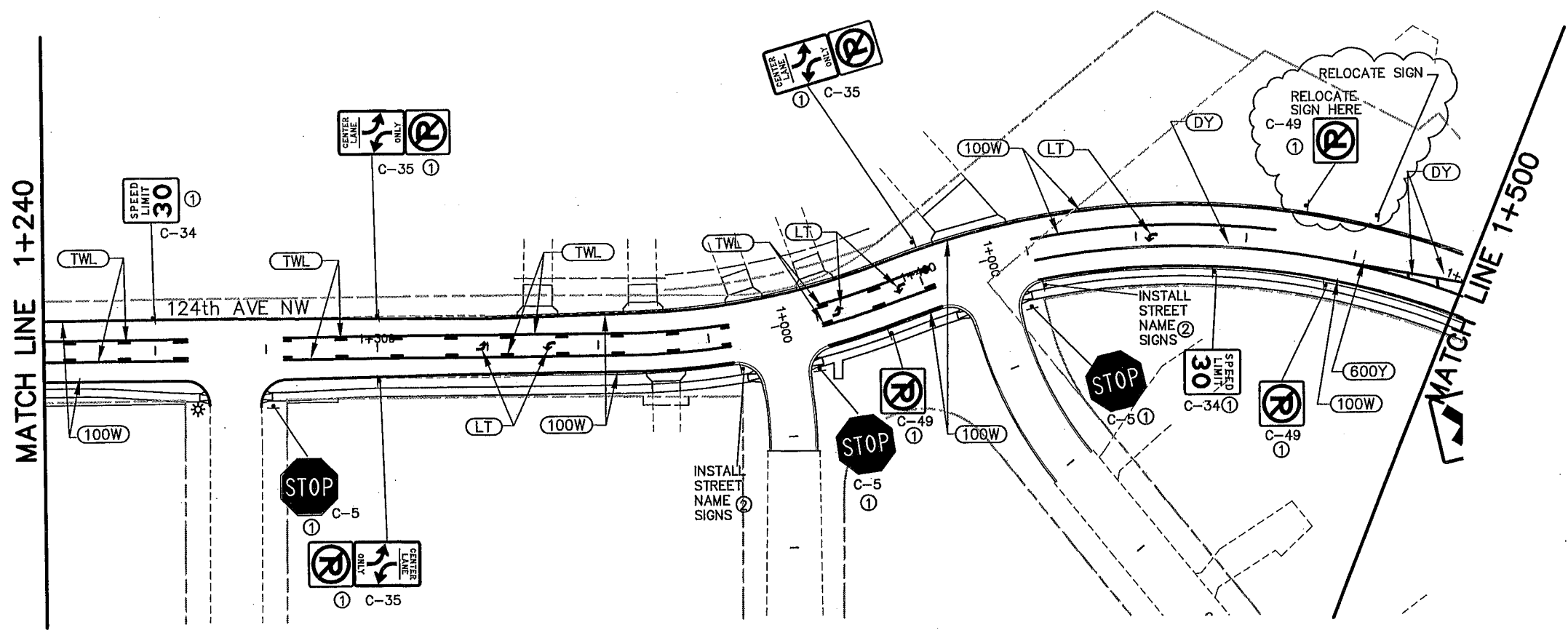
BEGIN S.A.P. 114-136-02
124th AVE. NW/CROOKED LAKE BLVD.
STA. 0+980.255

600 mm STOP LINE-WHITE



SEE SHEET 28 OF 32

MATCH LINE 1+240



MATCH LINE 1+240

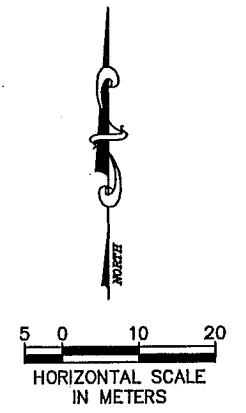
PERMANENT SIGNING LEGEND

- 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. S.A.P. No., CHANGED 124th AVE. BEGIN STA. DELETED SIGNING LEGEND NOTES 3,4,5, & 6
2	JUL	6/19/01	MOD. REQ. #7: MOVED NO PARKING SIGN
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
SLP
DESIGN BY:
SAW
CHKD. BY:
KPK
DWG. NAME:
242WSGD5
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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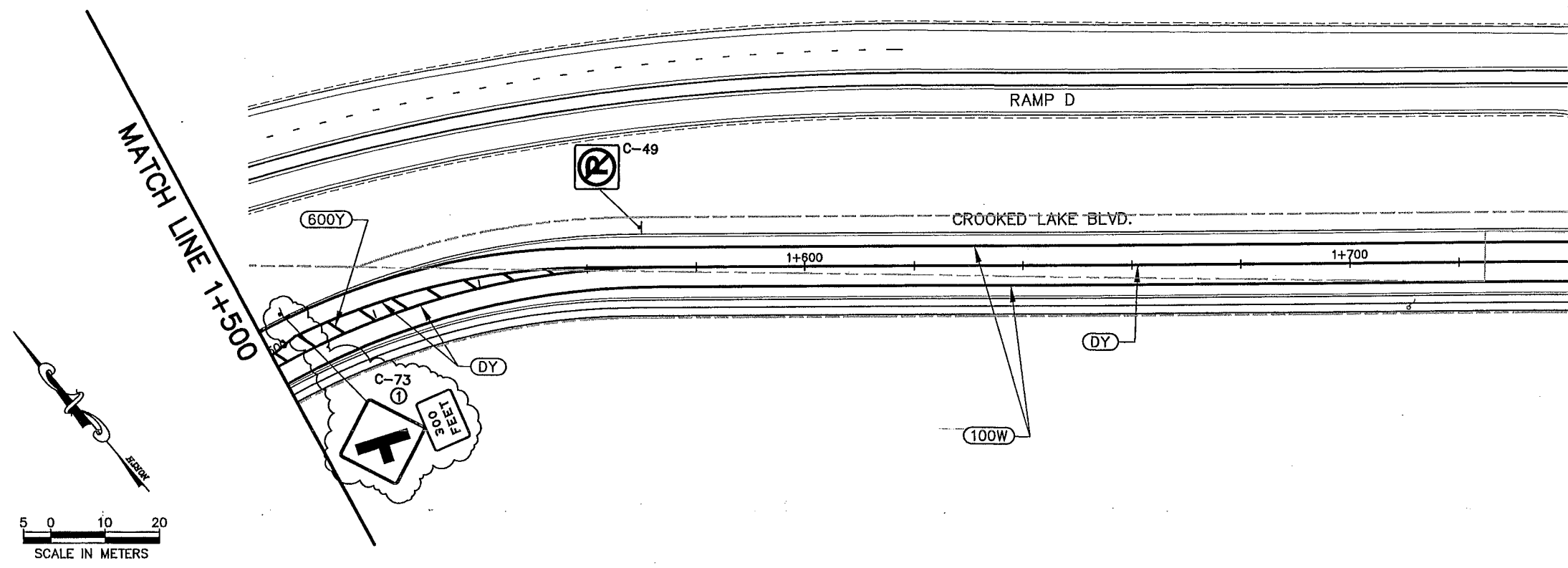
Kevin P. Kiehl
DATE: 11/5/99 MINN. REG. NO. 23211

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)	SHEET NO.
S.A.P. 02 - 614 - 19	317
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

539

2E-PLN
2-ESUM
_STR IPE
_PBOX
ID-SGN
I2MHETO
I2-A1 I W
I2I



PERMANENT SIGNING LEGEND

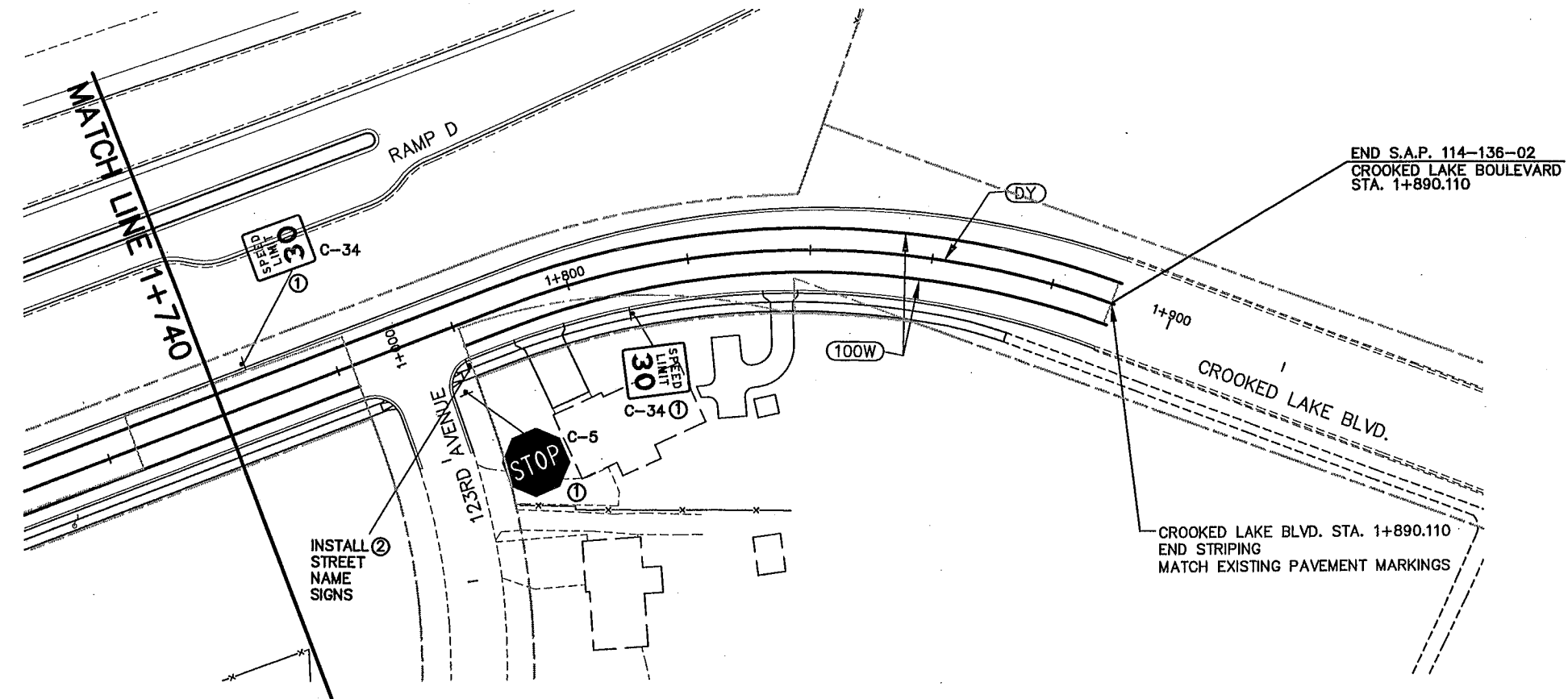
- ① FURNISH AND INSTALL
 - ② SALVAGE AND INSTALL
- SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

- (100W) 100 mm SOLID LINE-WHITE
- (BW) 100 mm BROKEN LINE-WHITE
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- (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

PLOT DATE: Apr 03-2004 3:41pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\PLAN_S...NGRNG\242wsg06.dwg

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	12/30/99	DELETED SIGNING LEGEND NOTES 3,4,5 & 8
2	JUL	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

CHKD. BY:
KPK

DWG. NAME:
242WSG06

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
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

SEE SHEET 17 OF 31

SEE SHEET 17 OF 31

SEE SHEET 17 OF 31

SEE SHEET 18 OF 31

PERMANENT SIGNING LEGEND

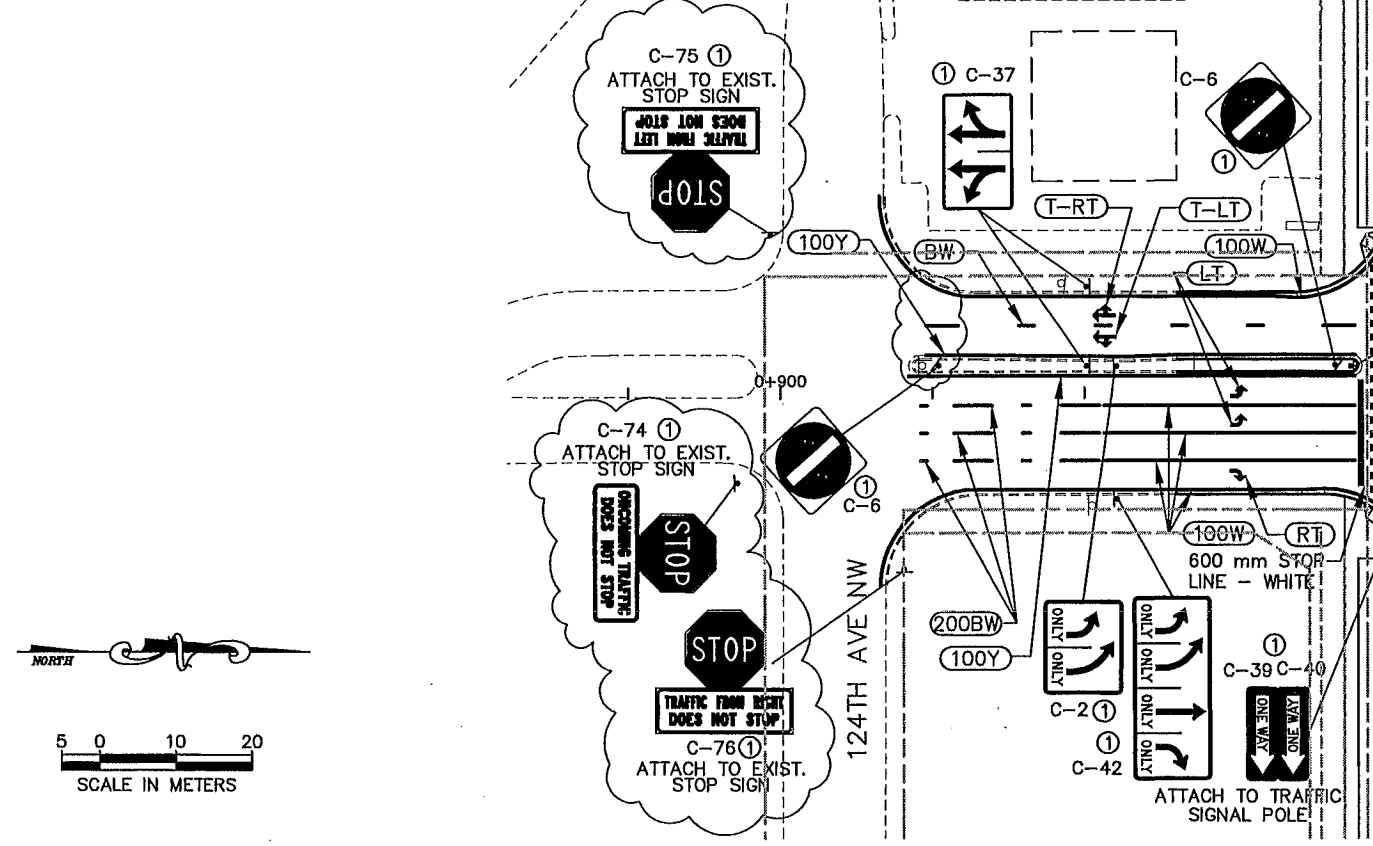
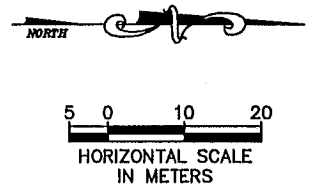
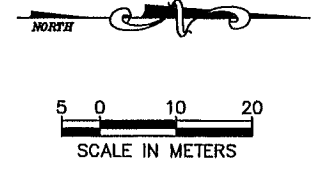
- ① FURNISH AND INSTALL
 - ② SALVAGE AND INSTALL
- SEE PERMANENT SIGN TABULATION FOR ADDITIONAL INFORMATION

PERMANENT PAVEMENT MARKING SYMBOLS LEGEND

- (100W) 100 mm SOLID LINE-WHITE
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- (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	DESIGN BY: SAW
DRAWN BY: SLP	CHKD. BY: KPK
DWG. NAME: 242WSG07	DATE: NOVEMBER 5, 1999



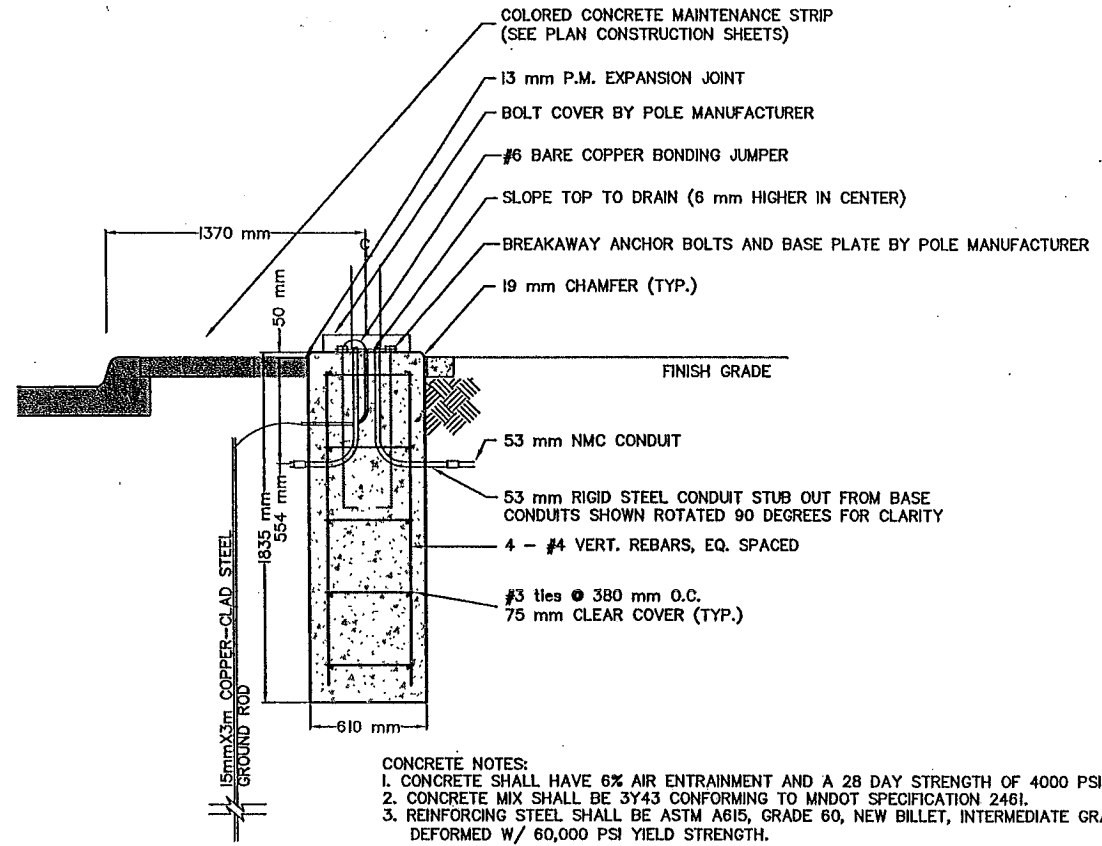
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16

Kevin P. Kiehl

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

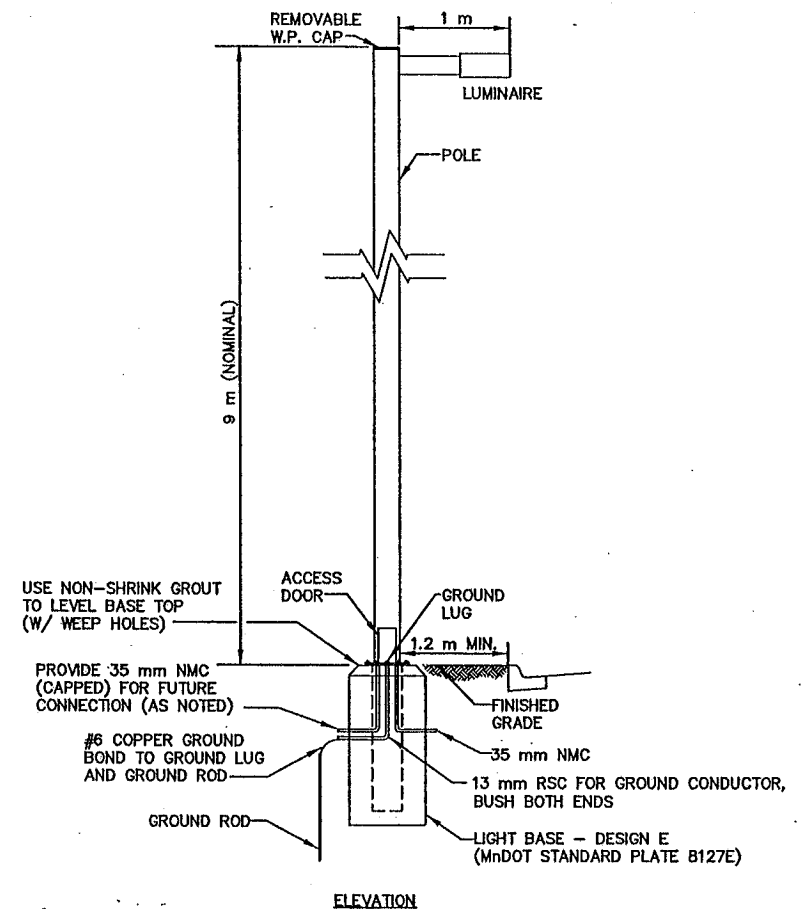
MAIN STREET/T.H. 242 RECONSTRUCTION
RIVER RAPIDS DRIVE &
RIVERDALE VILLAGE BOULEVARD
SIGNING & STRIPING
STATION 0+920 TO 1+060 & STATION 0+840 TO 1+100
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	319
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539



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.

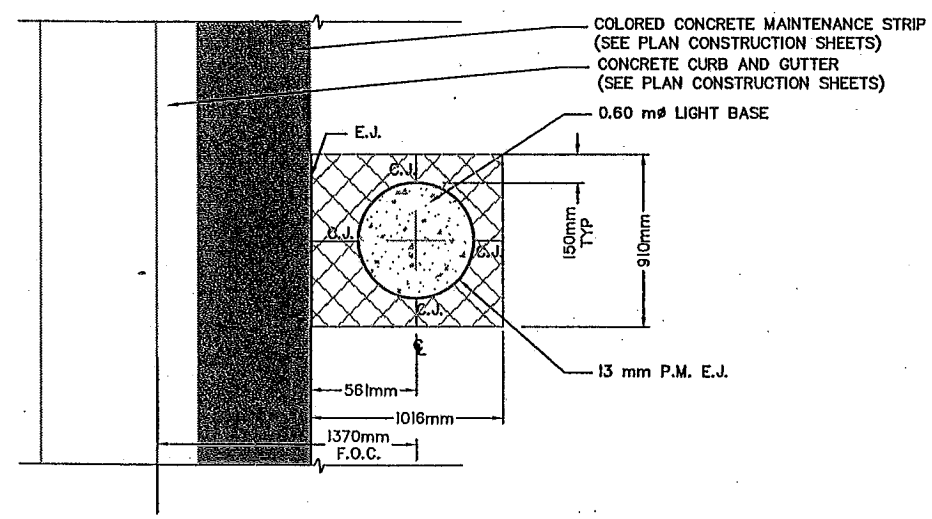
TYPICAL SECTION @ LIGHT FOUNDATION FOR LIGHTING UNIT, TYPE SPECIAL



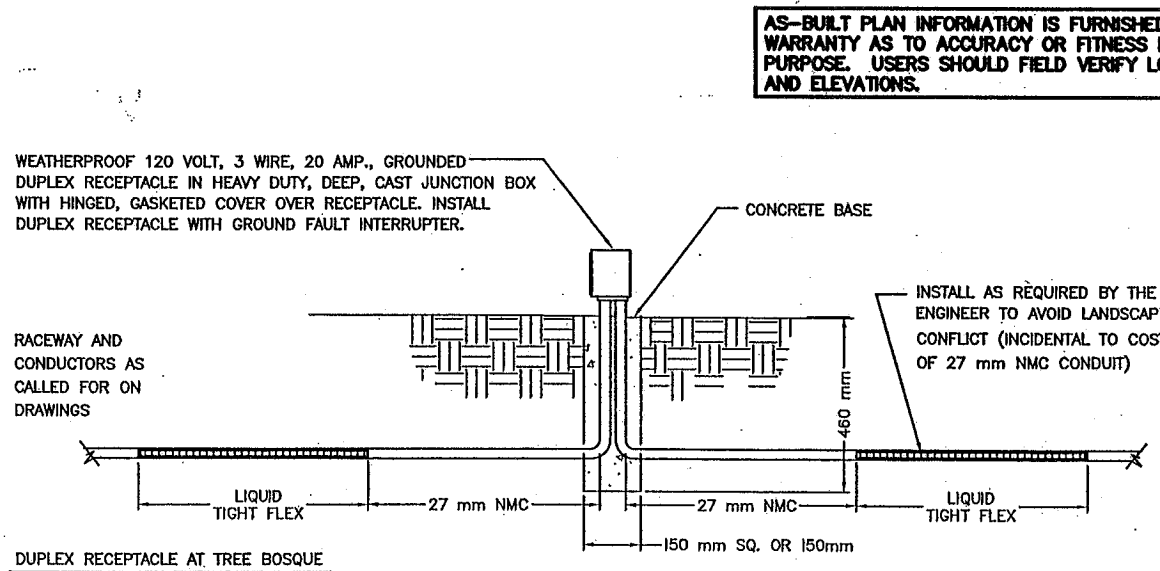
USE NON-SHRINK GROUT TO LEVEL BASE TOP (W/ WEEP HOLES)
 PROVIDE 35 mm NMC (CAPPED) FOR FUTURE CONNECTION (AS NOTED)
 #6 COPPER GROUND BOND TO GROUND LUG AND GROUND ROD
 GROUND ROD
 LIGHT BASE - DESIGN E (Mndot STANDARD PLATE B127E)

ELEVATION

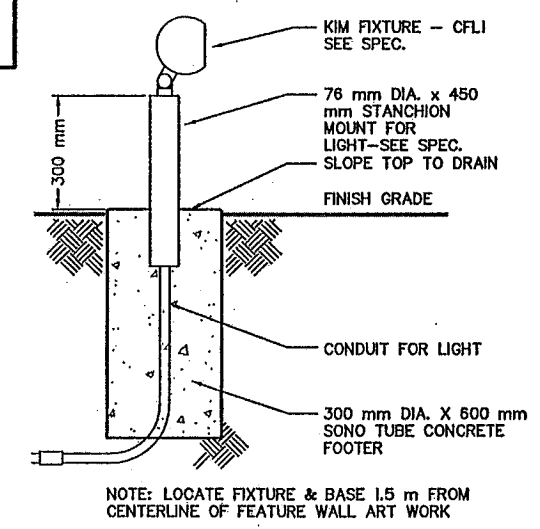
LIGHT POLE AND BASE DETAIL FOR LIGHTING UNIT TYPE IX-9, 3-12, 4-12



TYPICAL PLAN @ LIGHT FOUNDATION



TYPICAL GFI OUTLET DETAILS



LIGHTING UNIT TYPE SPECIAL 2 DETAIL

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

PLOT DATE: Apr 22, 2004 2:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889028\SIGNALS\Main\As-Built\LIT_det1.dwg

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	DESIGN BY: TPH
DRAWN BY: M.J.F.	CHKD. BY: R.J.G.
DWG. NAME: LIT_DET1.DWG	DATE: DECEMBER 29, 1999

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BRW
 THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)378-0700 (TEL)
 (612)378-1378 (FAX)

A DAMES & MOORE GROUP COMPANY

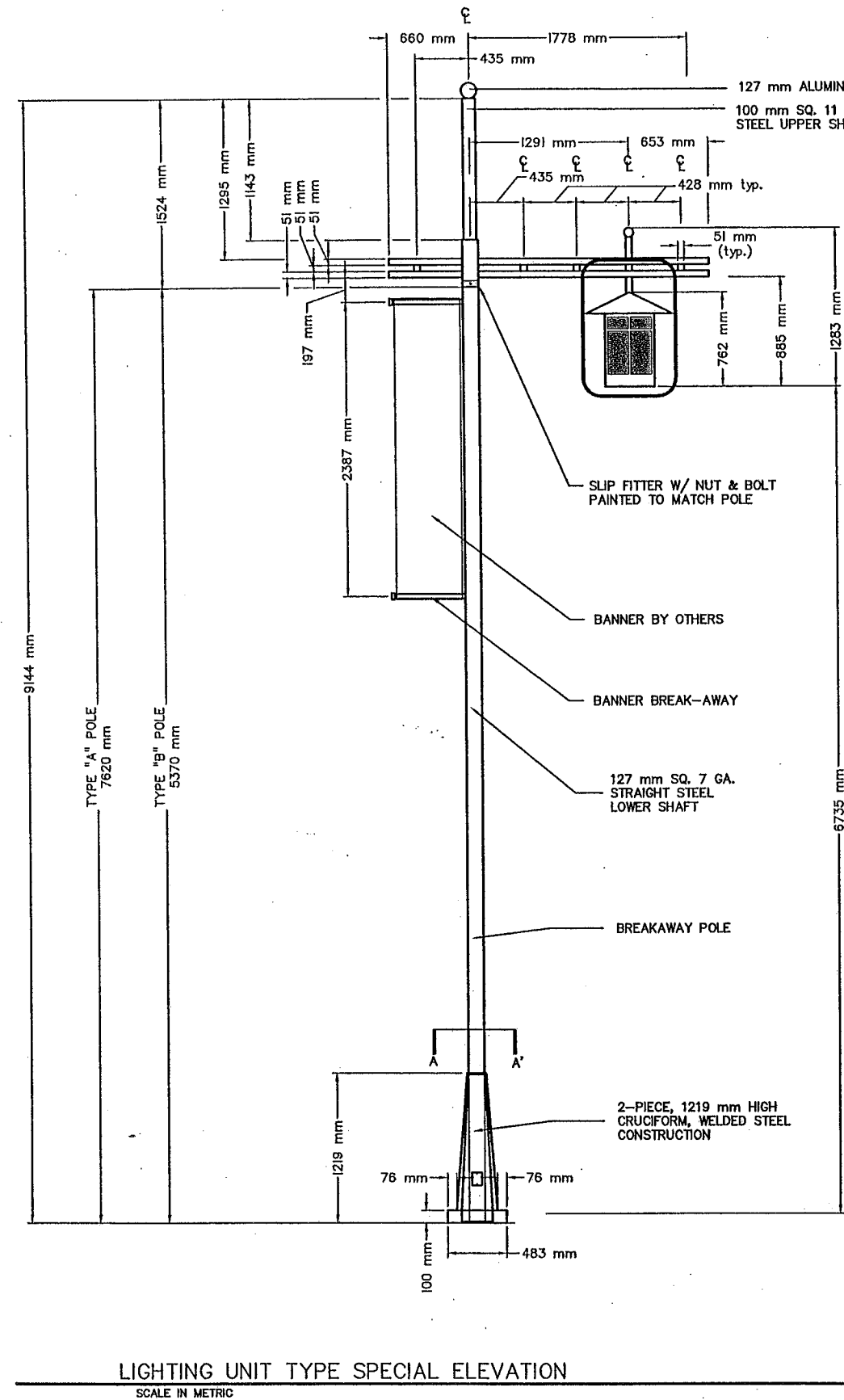
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Robert A. Green
 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)	SHEET NO.
S.A.P. 02 - 614 - 19	320
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539



LIGHTING UNIT TYPE SPECIAL ELEVATION
SCALE IN METRIC

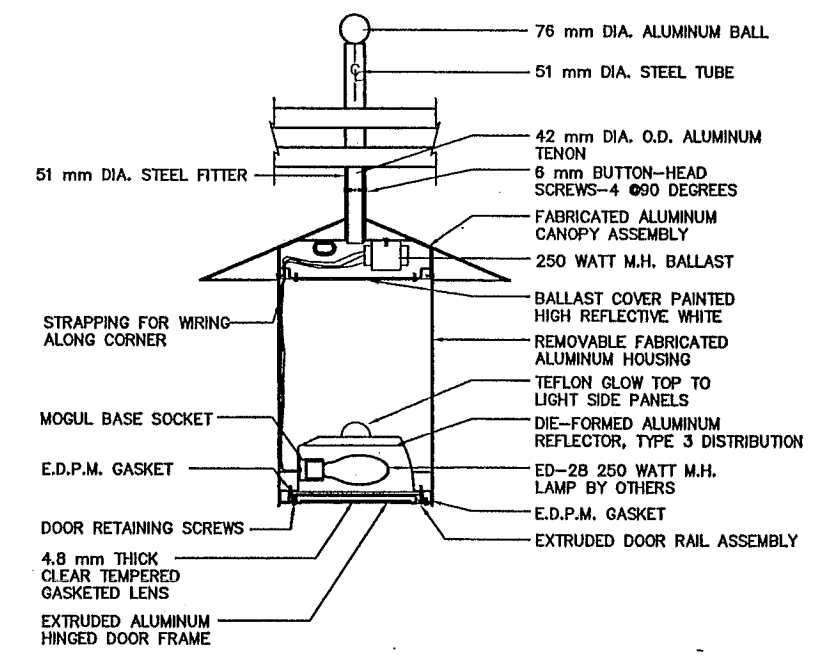
LUMINAIRE SPECIFICATIONS:
CANOPY: 810 mm SQ. X 171 mm HIGH ALL ALUMINUM CONSTRUCTION
BALLAST COVER: ALL ALUMINUM CONSTRUCTION, PAINTED HIGH REFLECTANCE WHITE
DIFFUSER PANELS: (4) AMBER MICA GLASS PANELS, CLEAR TEMPERED GLASS OVERLAY.
REFLECTOR: DIE-FORMED ALLUMINUM, WITH SPECULAR FINISH FOR A TYPE (3) 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

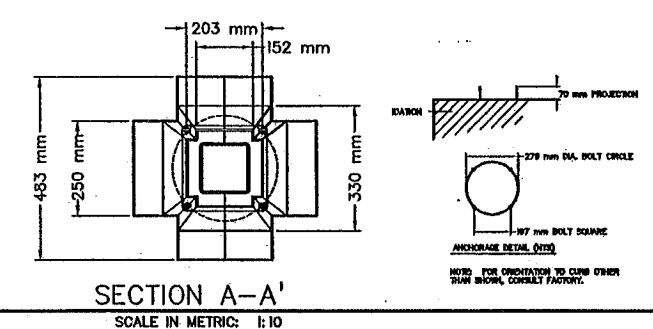
POLE SPECIFICATIONS:
UPPER SHAFT: SQ. STRAIGHT STEEL, 100mm SQ X 11 GA. WALL
LOWER SHAFT: SQUARE STRAIGHT STEEL, 127mm SQ. X 7 GA WALL
ARMS: 51 mm X 127 mm RECTANGULAR STEEL TUBE
HANDHOLE: WITH COVER
BASE COVER: TWO-PIECE, 1220mm HIGH CRUCIFORM WELDED STEEL CONSTRUCTION
BASE: 240 mm SQ. X 19 mm THICK 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.

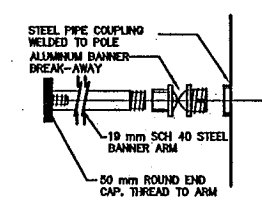
NOTE:
 1. FOR FOOTING DETAILS, SEE SHEET 320.



LIGHTING UNIT TYPE SPECIAL FIXTURE
SCALE IN METRIC

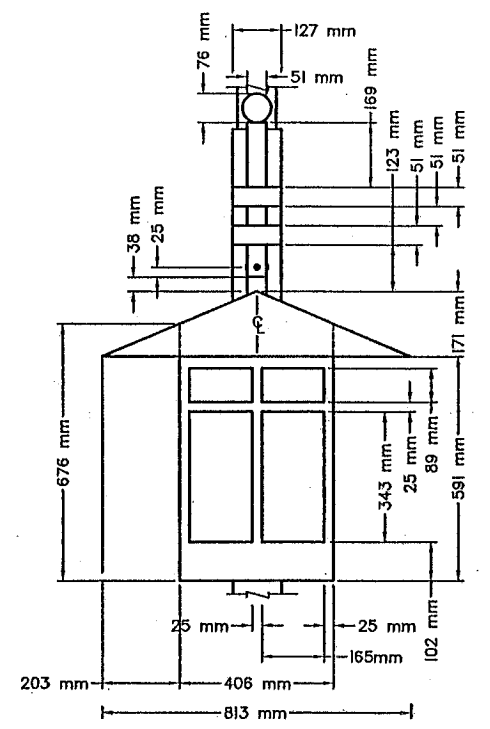


SECTION A-A'
SCALE IN METRIC: 1:10



BANNER BREAK-AWAY
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.



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	DESIGN BY: TPH
DRAWN BY: HH, MJF	CHKD. BY: RJJ
DWG. NAME: LIT_DET2.DWG	DATE: DECEMBER 29, 1999



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



A DAMES & MOORE GROUP COMPANY
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55416
(612)370-0700 (TEL)
(612)370-1378 (FAX)

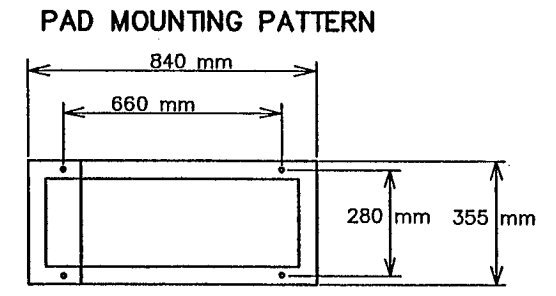
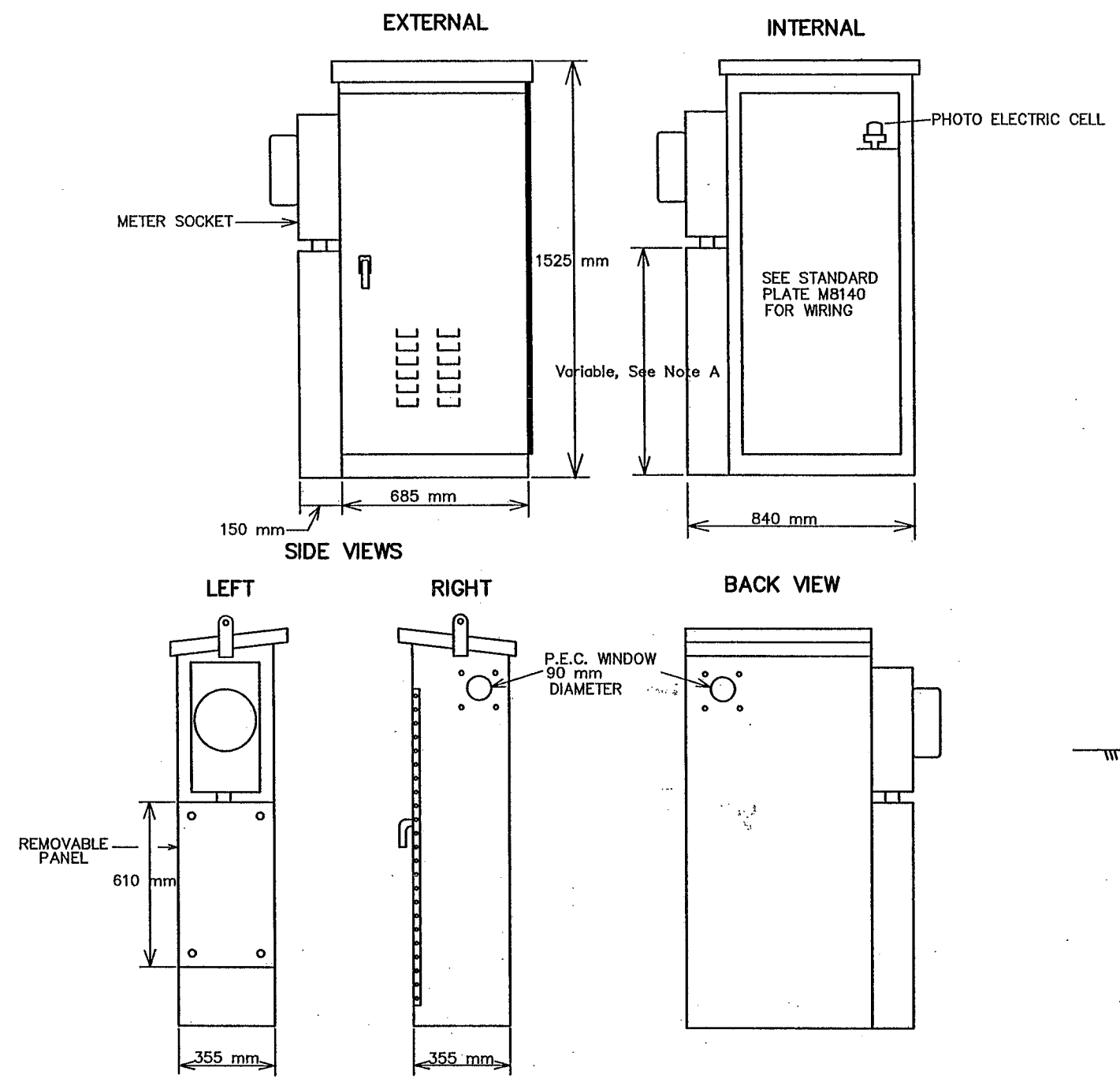
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Robert A. Erwin
DATE: 11-05-99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
LIGHTING SYSTEM DETAILS
CITY PROJECT 98-20

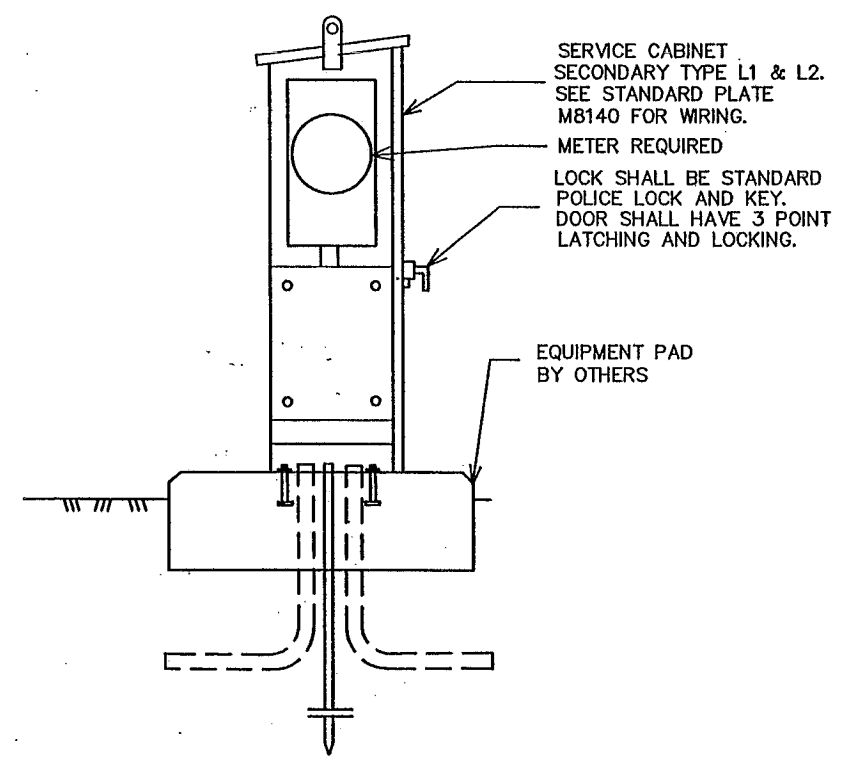
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO.
321
539

PLOT DATE: Apr 22, 2004 2:36pm DISK FILE NAME: (15.06) R:\33889\33889028\SIGNALS\Main\As-Built\Lit_det3.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
 CHKD. BY: R/JG
 DWG. NAME: PANEL
 DATE: DECEMBER 29, 1999



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 700 THIRD STREET SOUTH
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 (612)370-0700 (TEL)
 (612)370-1378 (FAX)
 A DAMES & MOORE GROUP COMPANY

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Robert J. Green
 DATE: 11-05-99, MINN. REG. NO. 22793







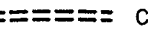
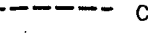

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET / T.H. 242
TRAFFIC SIGNAL SYSTEM
 SERVICE CABINET DETAILS
 SECONDARY TYPE L1 & L2
 CITY PROJECT 98-20

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 - 127 - 02

SHEET NO. **322**
539

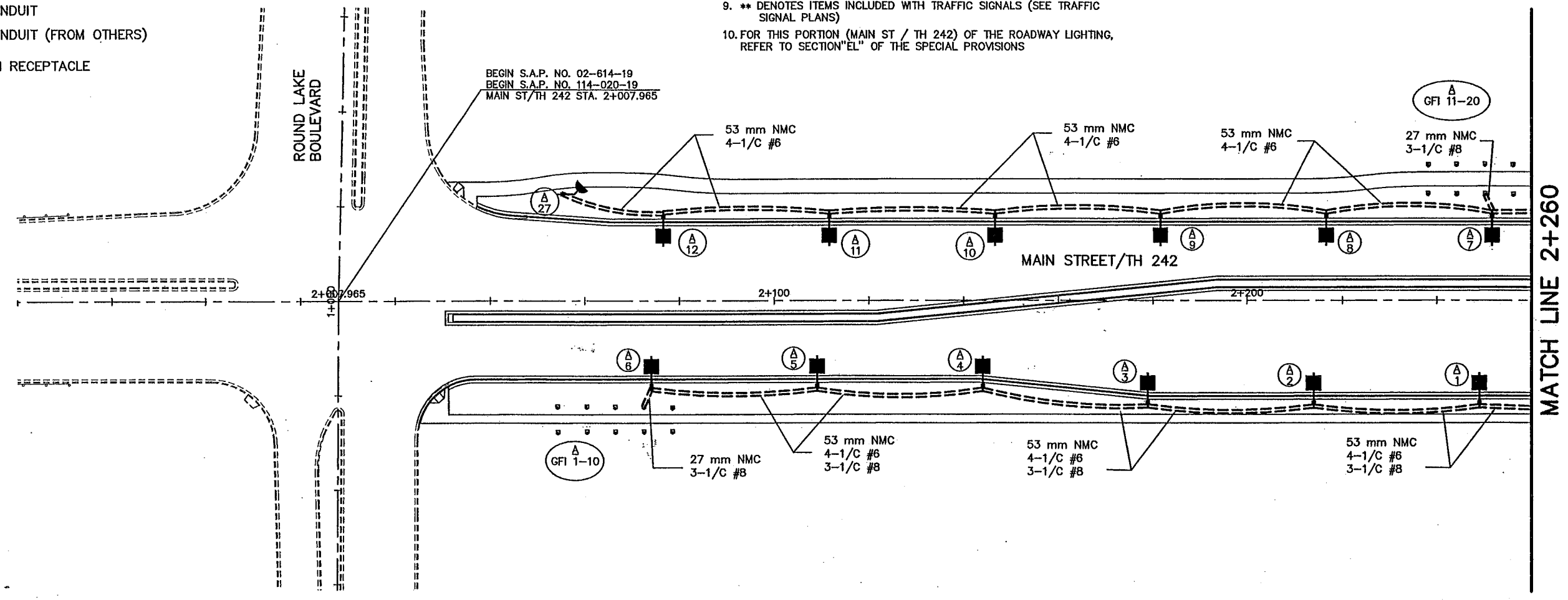
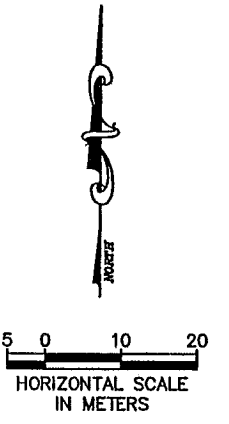
N-LGT
VHET2
-AL1W
PLNW
BOX

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




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

PLOT DATE: Apr 22, 2003 2:36pm DISK FILE NAME: (15.08) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Lite_1w.dwg

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	DESIGN BY: RJG
DRAWN BY: TWS	DWG. NAME: LITE_1W
CHKD. BY: TWS	DATE: JUNE 12, 2000

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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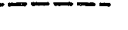

Robert J. Green
DATE: 06-12-00 MINN. REG. NO. 22793

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

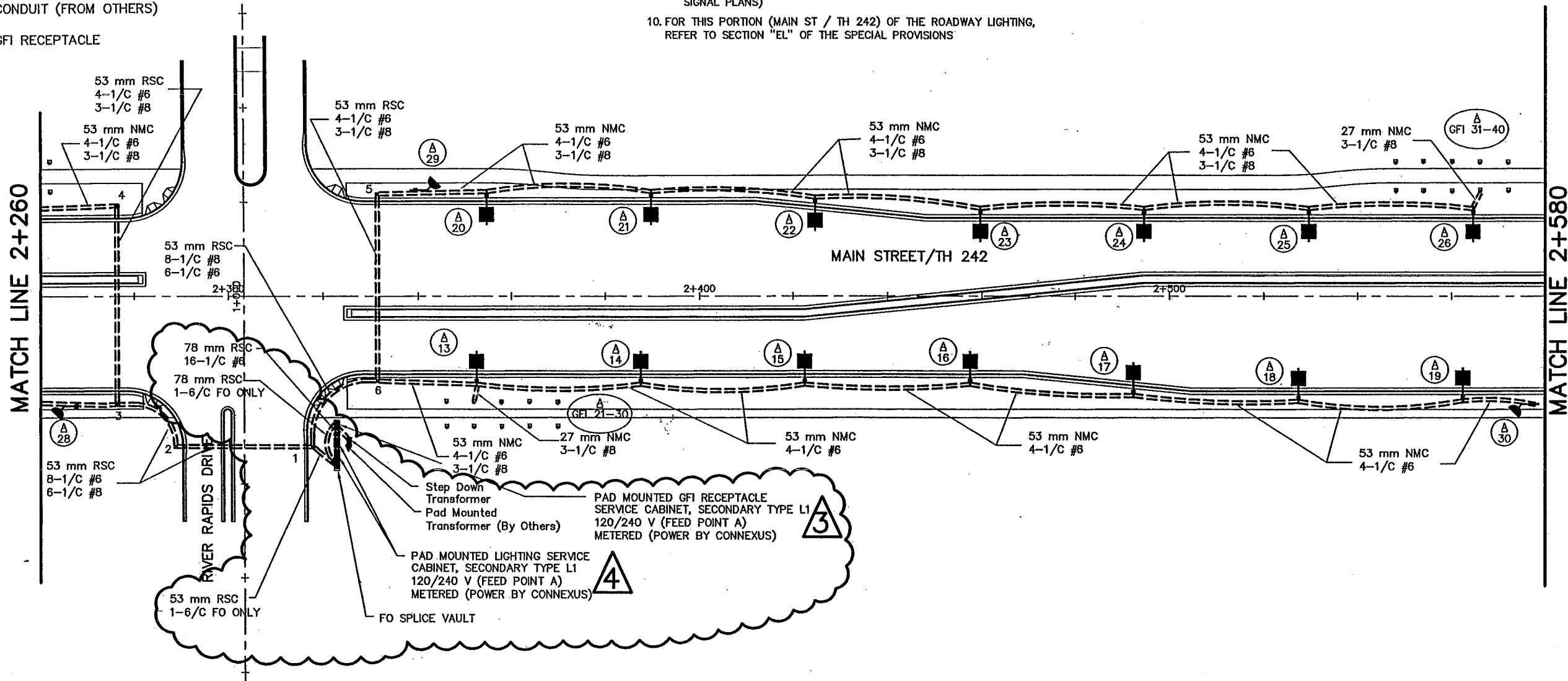
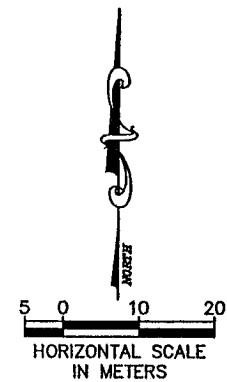
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	323
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

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 RECEPTABLES 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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PLOT DATE: Apr 22, 2004 11:22am DISK FILE NAME: (15.00) R:\33889\33889028\33889028\33889028\Main\As-Built\Lite_2w.dwg

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	8/16/00	MODIFIED #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

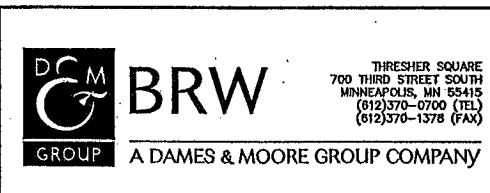
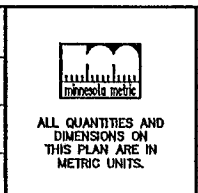
DRAWN BY:
TWS

DESIGN BY:
R.JG

CHECKED BY:
TWS

DWG. NAME:
LITE_2W

DATE:
JUNE 12, 2000



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Robert A. Green

DATE: 08-12-00, 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

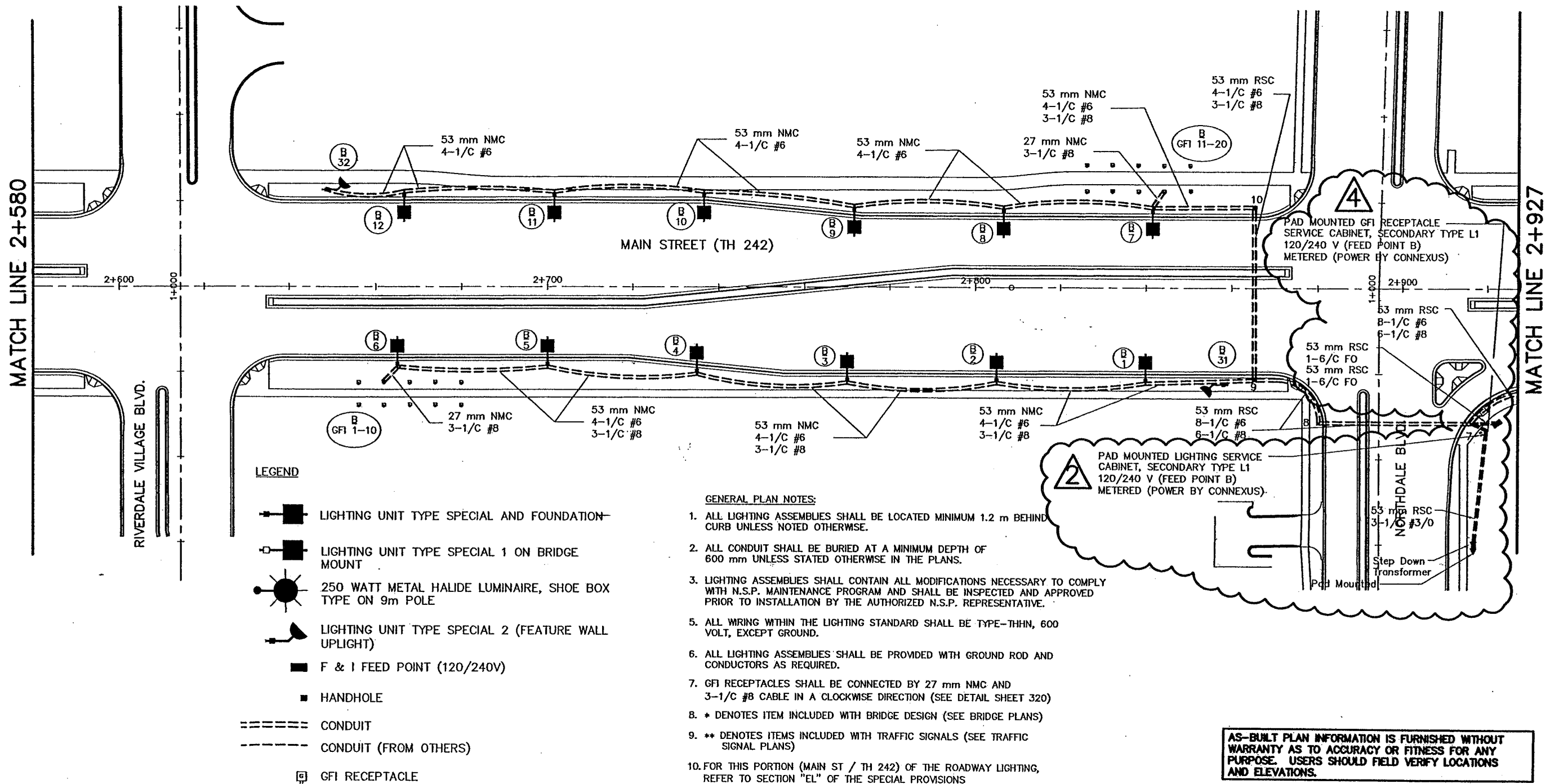
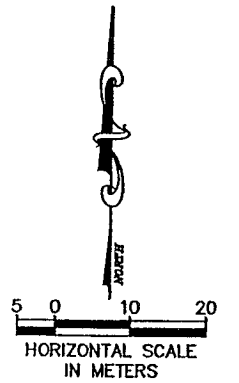
CITY PROJECT 98-20

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 - 138 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
324

539



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.

PLOT DATE: Apr 22, 2004

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	1-3-00	CHANGED CABLE SIZE FROM CABINET TO TRANSFORMER
2	TWS	6/18/00	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)
3	JAS	4/22/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	
DRAWN BY: TWS	DESIGN BY: RJG
CHKD. 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)
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Robert A. 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

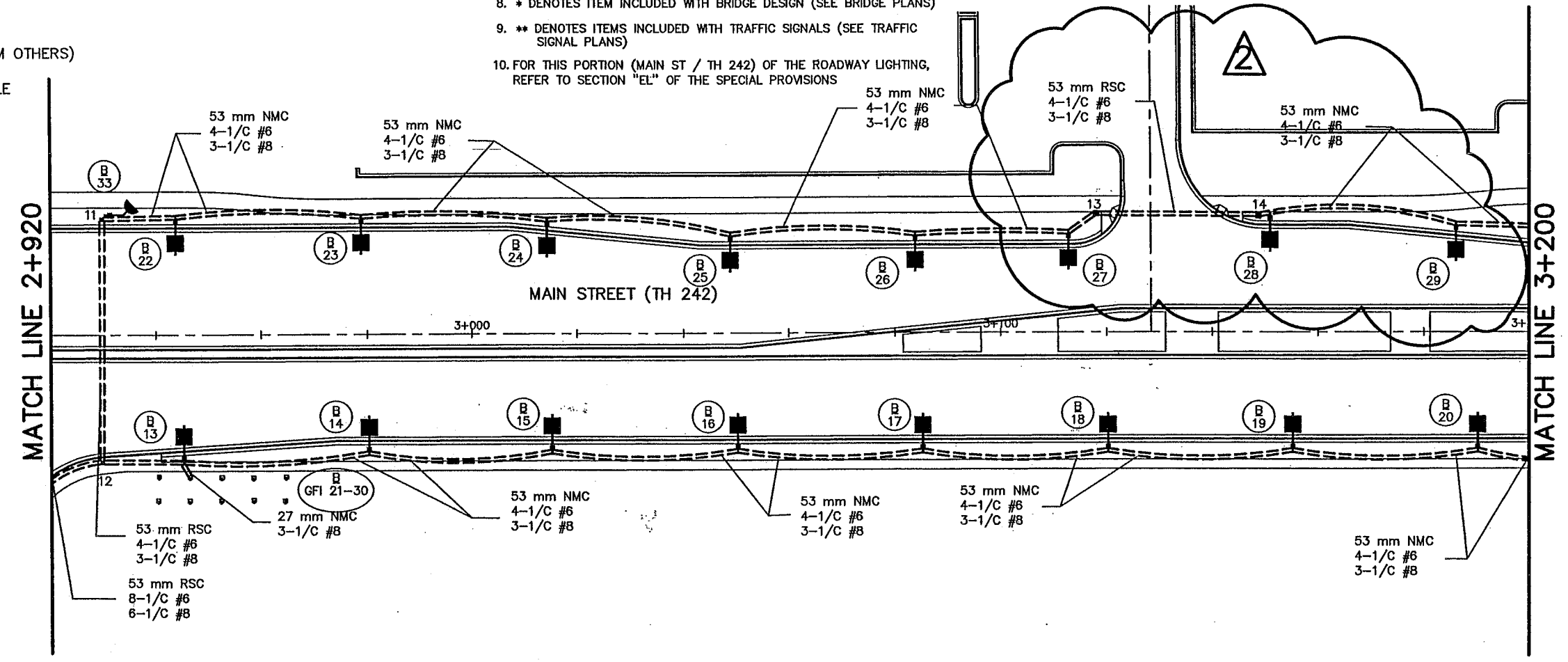
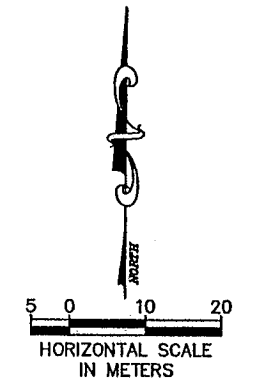
_STA
12W-LGT
12-ALIW
12PLNW
APBOX

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



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PLOT DATE: Apr 22, 2004 12:14pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main As-Built\Lite_4w.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	8/18/00	MOD.REQ.#22: ADDED 1-1/C #8 TO LIGHTING SYSTEM
2	TWS	8/19/00	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: R.J.G.
CHKD. BY: TWS	DWG. NAME: LITE_4W	
DATE: JUNE 12, 2000		



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

BRW
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

GROUP A DAMES & MOORE GROUP COMPANY

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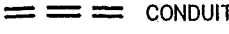


Robert A. Drumm
DATE: 6-12-00 MINN. REG. NO. 22793

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)	SHEET NO.
S.A.P. 02 - 614 - 19	326
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

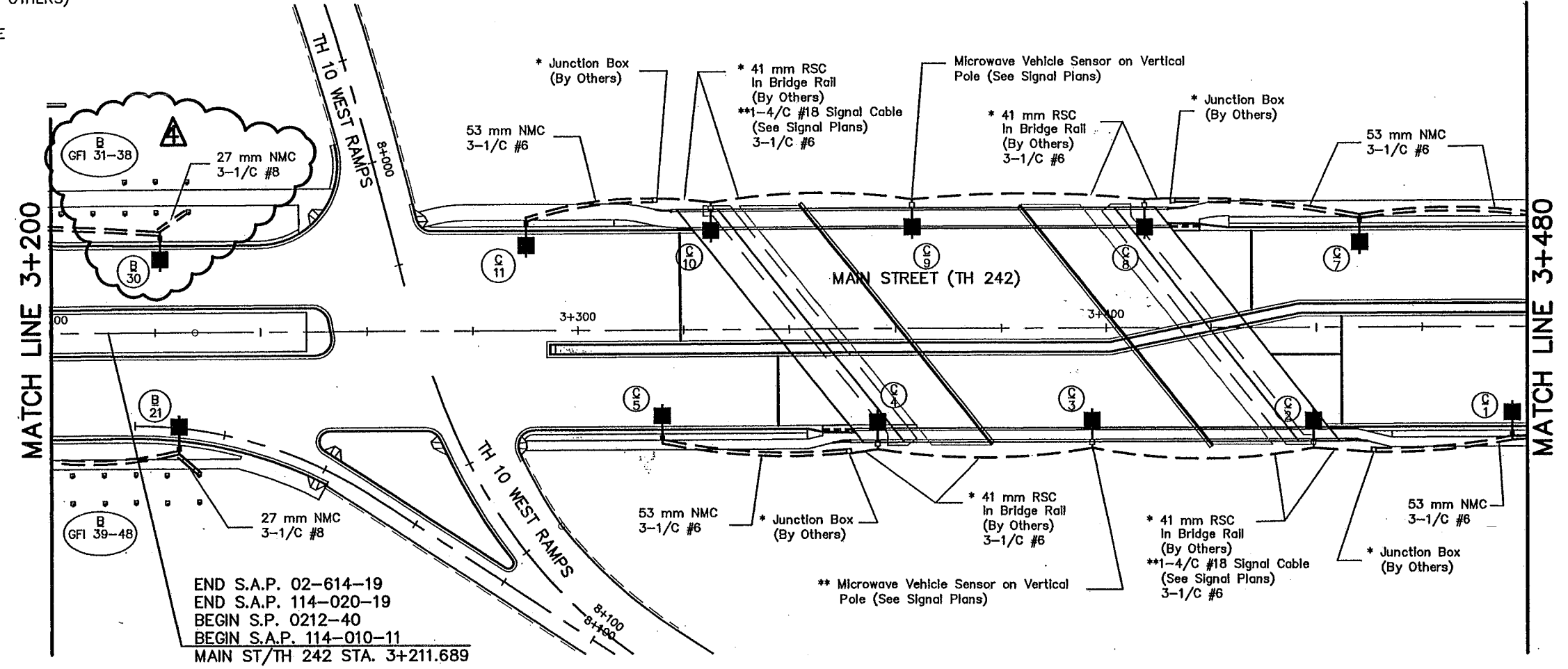
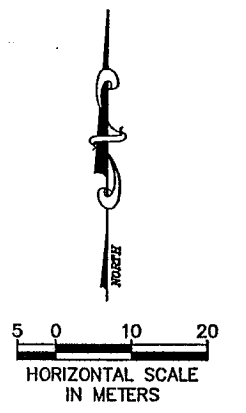
539

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.
4. ALL WIRING WITHIN THE LIGHTING STANDARD SHALL BE TYPE-THHN, 600 VOLT, EXCEPT GROUND.
5. ALL LIGHTING ASSEMBLIES SHALL BE PROVIDED WITH GROUND ROD AND CONDUCTORS AS REQUIRED.
6. GFI RECEPTACLES SHALL BE CONNECTED BY 27 mm NMC AND 3-1/C #8 CABLE IN A CLOCKWISE DIRECTION (SEE DETAIL SHEET 320)
7. * DENOTES ITEM INCLUDED WITH BRIDGE DESIGN (SEE BRIDGE PLANS)
8. ** DENOTES ITEMS INCLUDED WITH TRAFFIC SIGNALS (SEE TRAFFIC SIGNAL PLANS)
9. FOR THIS PORTION (MAIN ST / TH 242) OF THE ROADWAY LIGHTING, REFER TO SECTION "EL" OF THE SPECIAL PROVISIONS



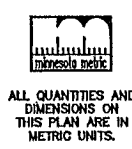
END S.A.P. 02-614-19
END S.A.P. 114-020-19
BEGIN S.P. 0212-40
BEGIN S.A.P. 114-010-11
MAIN ST/TH 242 STA. 3+211.689

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PLOT DATE: Apr 22, 2004 2:41pm DISK FILE NAME: (15.06) R:\33889\33889028\SIGNALS\Main\As-Built\Lite_1e.dwg

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	6/19/00	MOD. REQ. #22; ADD LIGHT B-30 TO ACCOMMODATE REVISED MENARDS ENTRANCE
5	JAS	4/22/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: TWS	DESIGN BY: R.J.G.
CHKD. BY: TWS	DWG. NAME: LITE_1E	
DATE: DECEMBER 29, 1999		



BRW
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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







Robert F. Brown
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

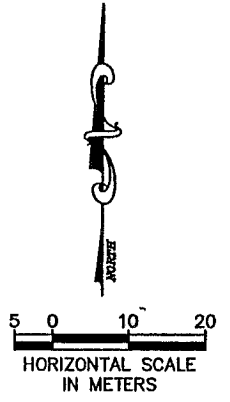
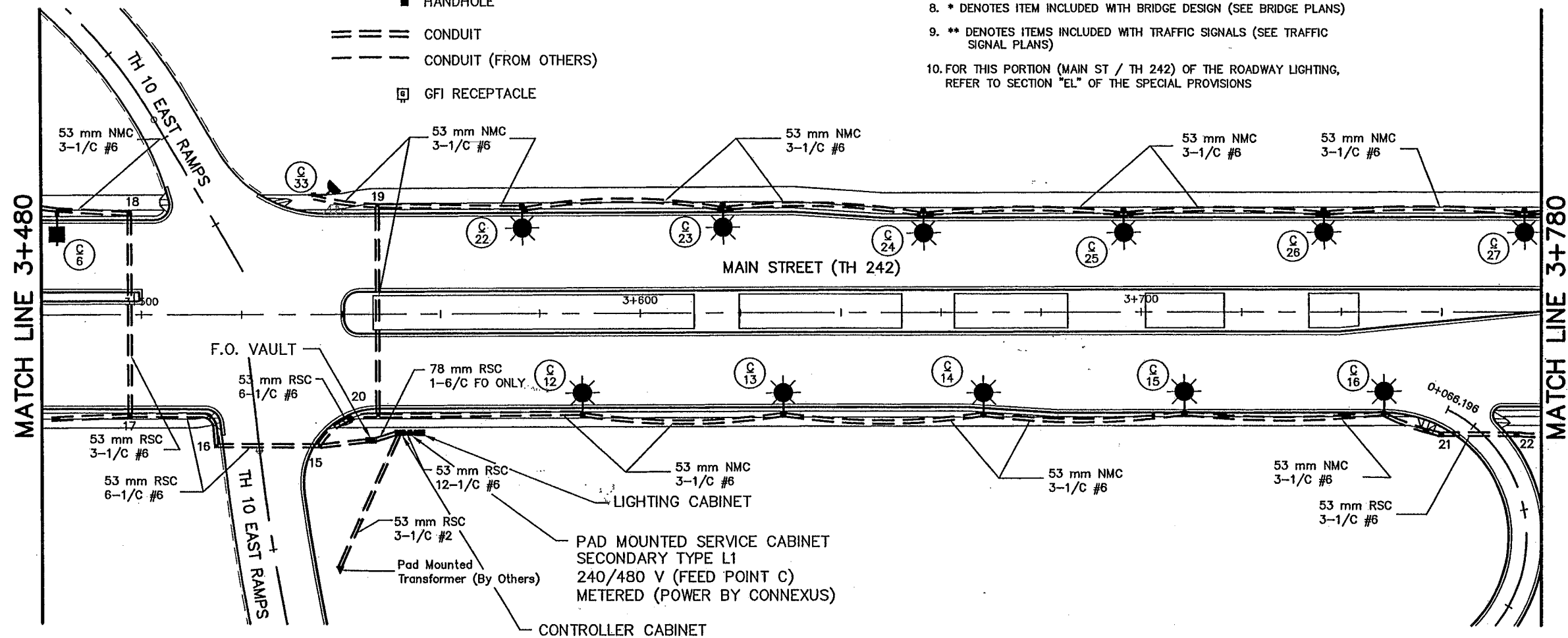
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	327
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

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	6/18/00	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
CHKD. BY:
TWS
DWG. NAME:
LITE_2E
DATE:
JUNE 12, 2000

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)376-1378 (FAX)







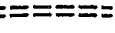
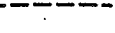


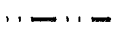
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Robert J. Green
DATE: 06-12-00 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/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

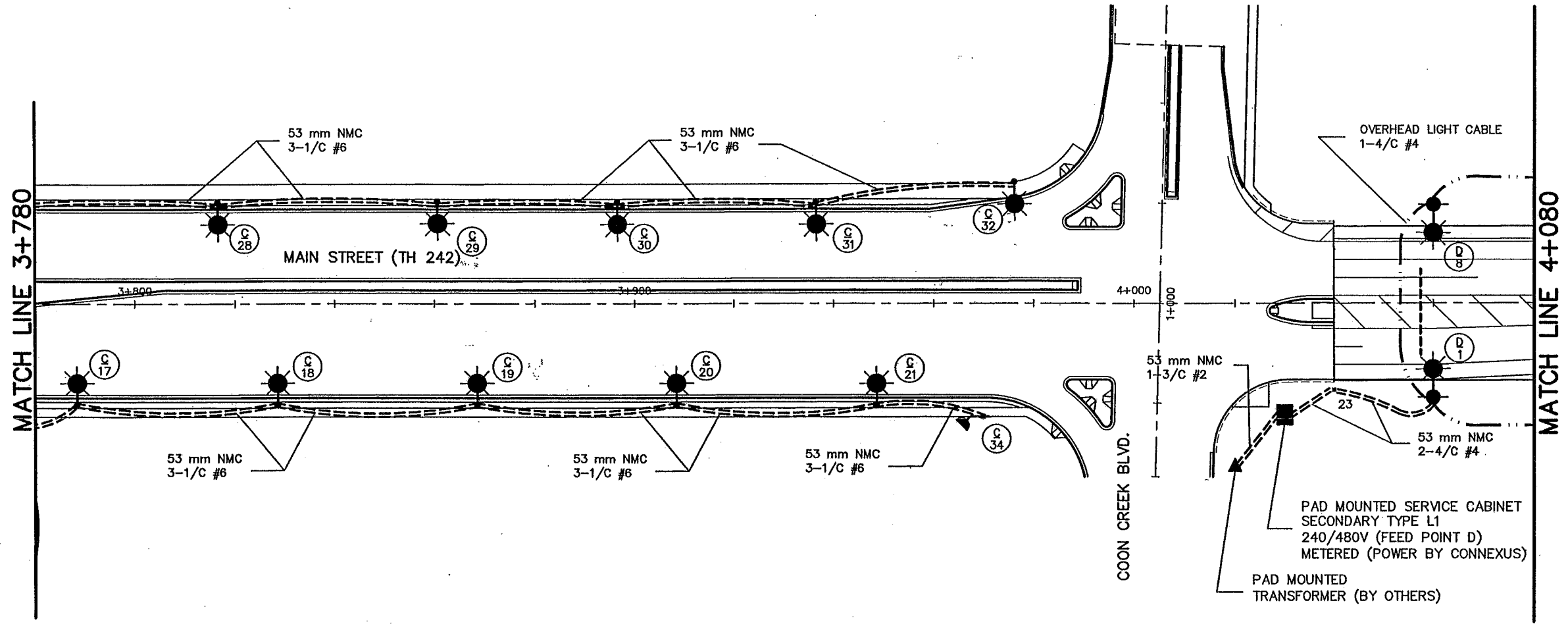
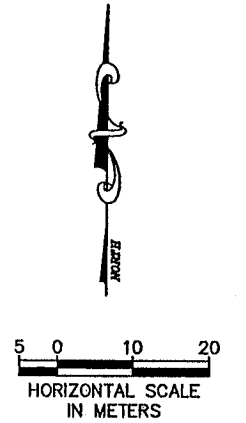
LEGEND

-  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.
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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

- (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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PLOT DATE: Apr 22, 2004 1:49pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\Lite_3e.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	8/16/00	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
CHKD. BY: TWS	DWG. NAME: LITE_3E	DATE: JUNE 12, 2000

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BRW
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700 THIRD STREET SOUTH
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(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Robert A. Green


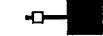




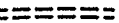
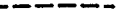



DATE: 06-12-00 MINN. REG. NO. 22793

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

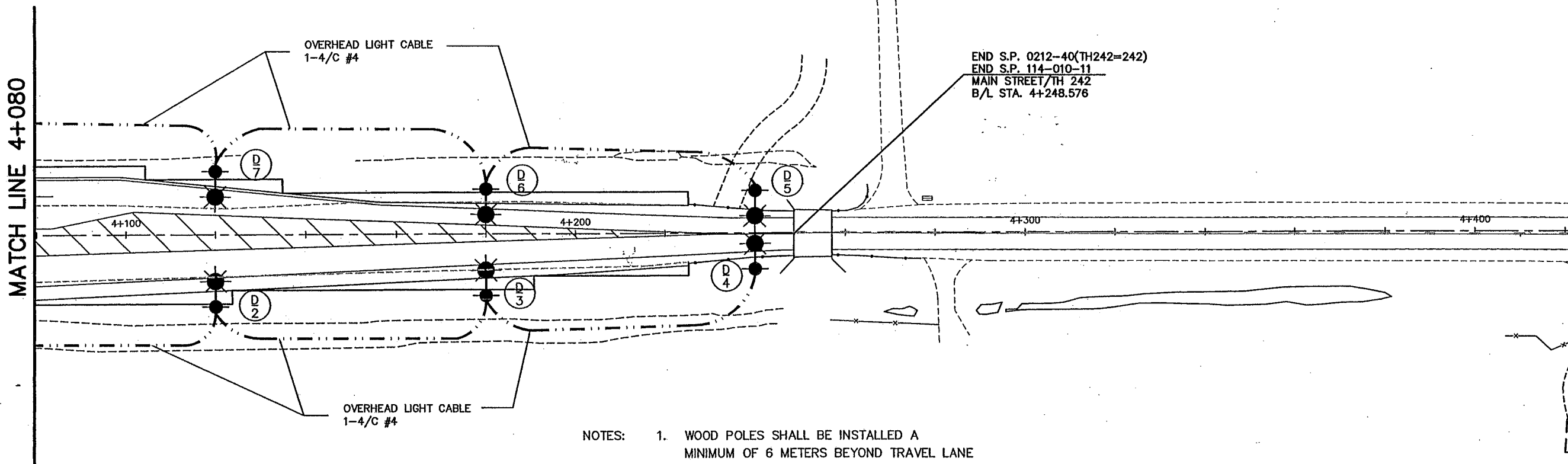
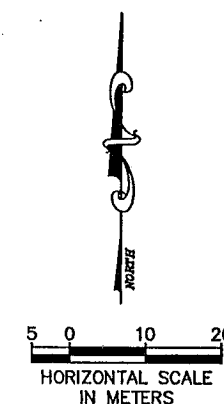
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	329
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 138 - 02	
S.A.P. 114 - 127 - 02	539

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

Ⓛ₂ THRU Ⓛ₇ INSTALL: 12.2 m WOOD POLE
F & I: 3 m LUMINAIRE ARM
250 W HPS LUMINAIRE
2 - 4/c #4 OVERHEAD LIGHT CABLE



END S.P. 0212-40 (T.H.242=242)
END S.P. 114-010-11
MAIN STREET/T.H. 242
B/L STA. 4+248.576

- 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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PLOT DATE: Apr 22, 2004 1:50pm DISK FILE NAME: (15.06) R: \33889\33889028\33889E\SIGNALS\Main\As-Built\Lite_AE1.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION	DESIGN FILE: 33889028
1	tws	1-3-99	Moved matchline to 4+080	DRAWN BY: TWS DESIGN BY: RJG CHKD. BY: TWS DWG. NAME: LITE_AE1 DATE: DECEMBER 29, 1999
2	JAS	4/22/04	AS-BUILT DRAWING	



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Robert A. Green

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)	SHEET NO.
S.A.P. 02 - 614 - 19	330
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 138 - 02	
S.A.P. 114 - 127 - 02	

539

8:32am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\LIGHTING\Feedpt_L.dwg

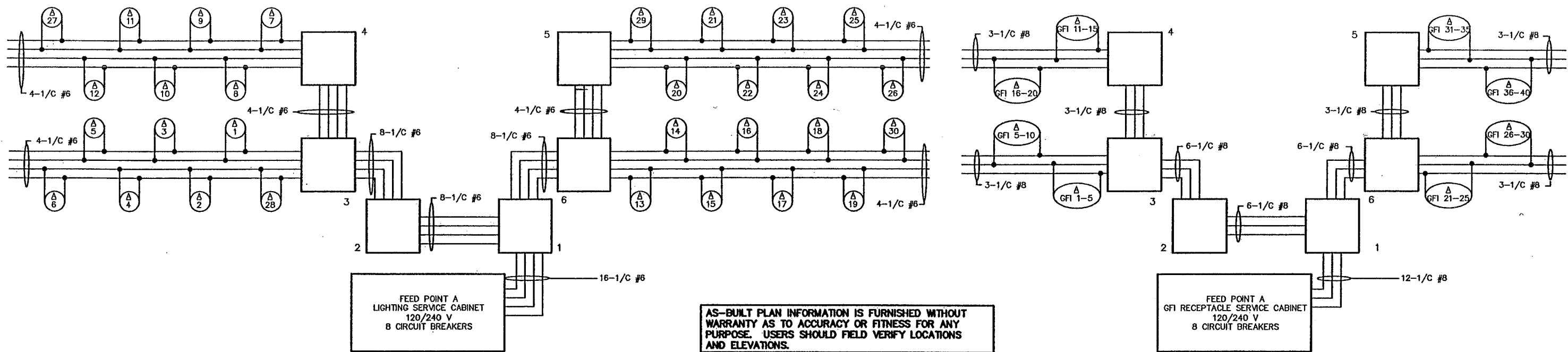
PLOT DATE: Aug 03

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

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

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

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		X
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
 CHKD. BY: RJC
 DWG. NAME: Feedpt_A
 DATE: JUNE 12, 2000

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

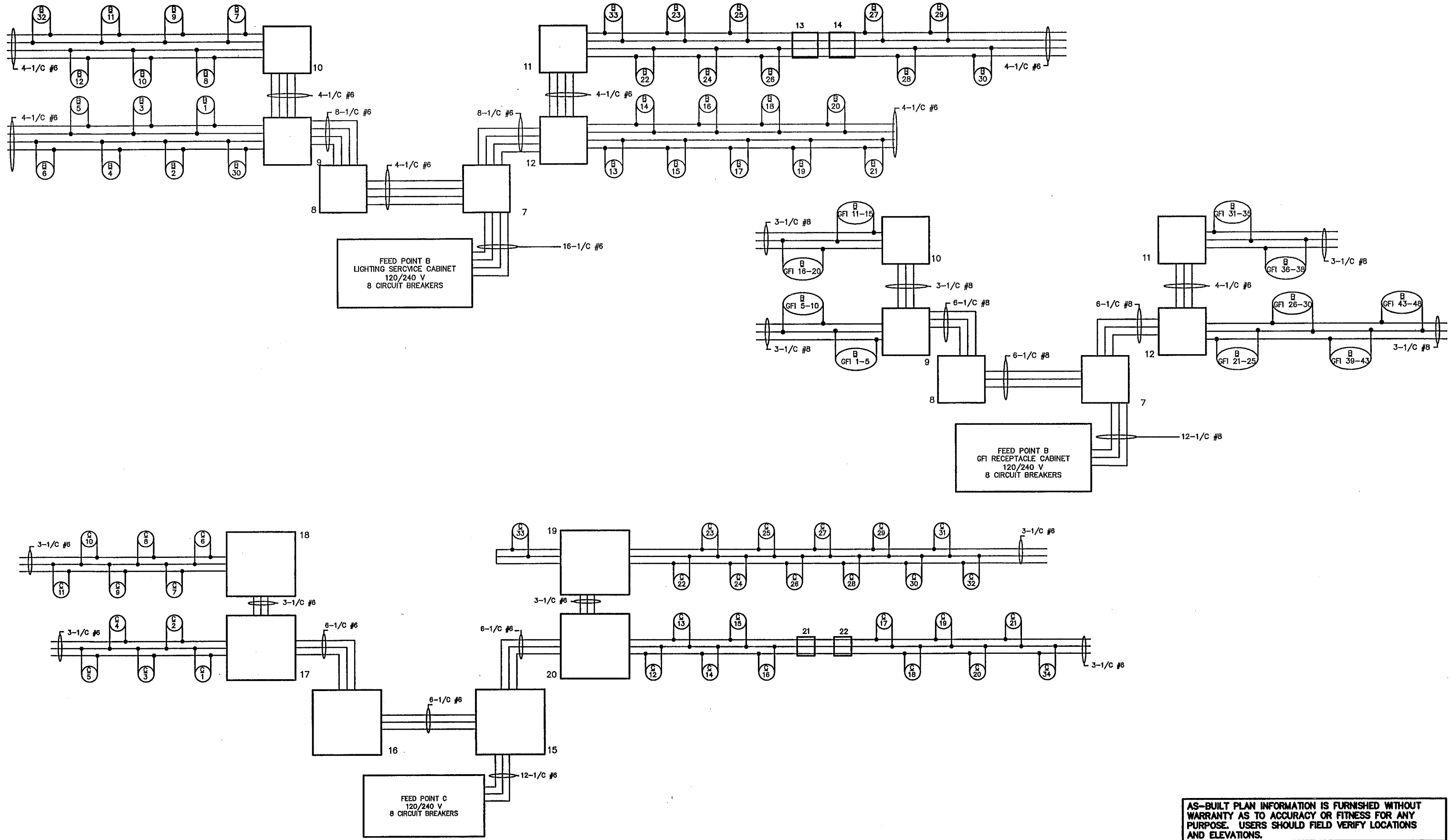
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Robert A. Brown
 DATE: 06-12-00 MINN. REG. NO. 22793

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, 2004 8:34am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\LIGHTING\Feedpt_b.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TWS	6/18/00	MOD.REQ.#22: REVISED WIRING DIAGRAM FOR FD PT B FOR THE ADDITION OF GFI RECEPT. CABINET
2	TWS	08/19/00	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

CHKD. BY:
RJG

DWG. NAME:
Feedpt_B

DATE:
JUNE 12, 2000



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 A. Green

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)	SHEET NO.
S.A.P. 02 - 614 - 19	332
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

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
ITEM	UNIT	S.P. 0212-40
		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

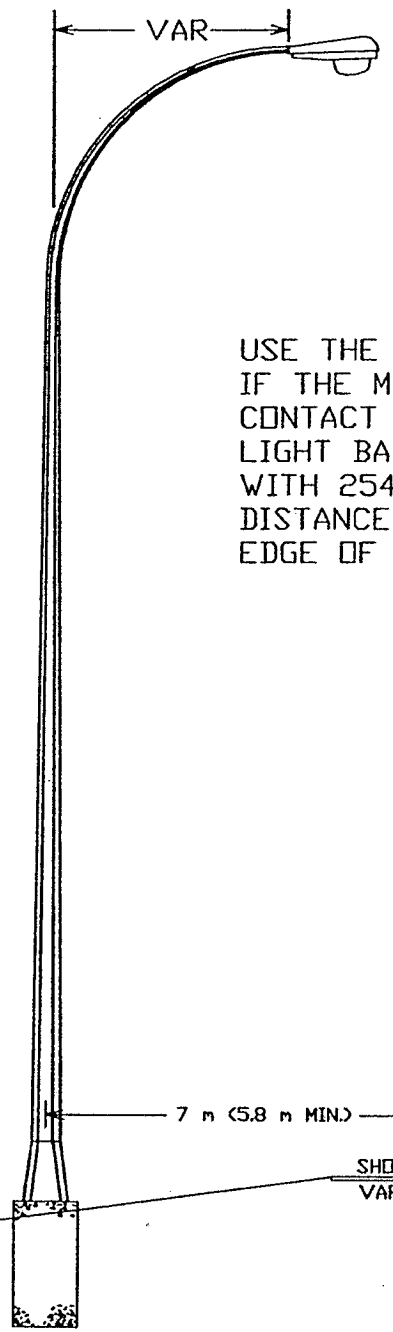
CERTIFIED BY *Susan C. Ladd* REG. NO. 21180
PROFESSIONAL ENGINEER

State Proj. No. 0212-40

Sheet No. 333 of 539 Sheets

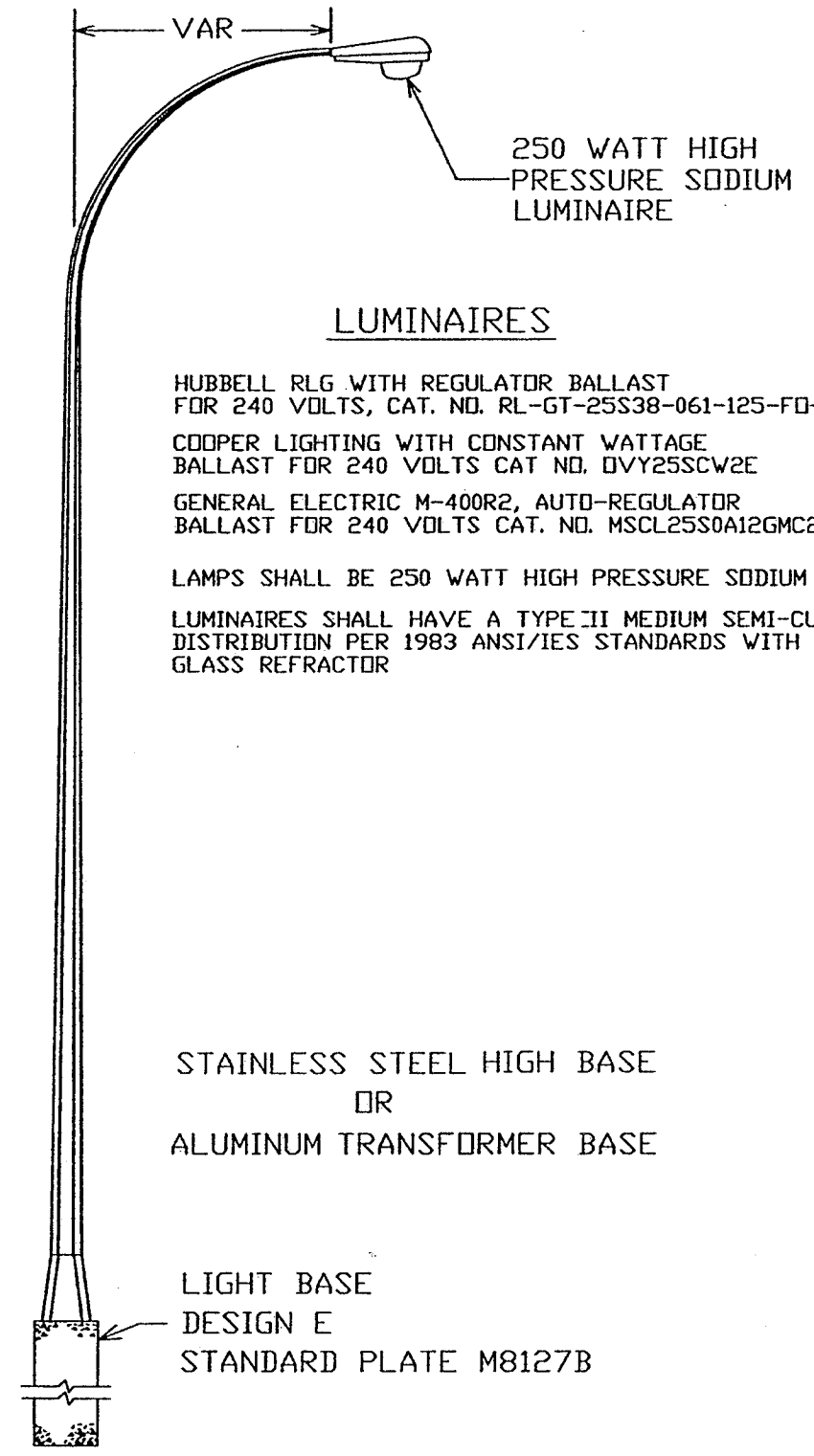
FILE 021240-2.DGN

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

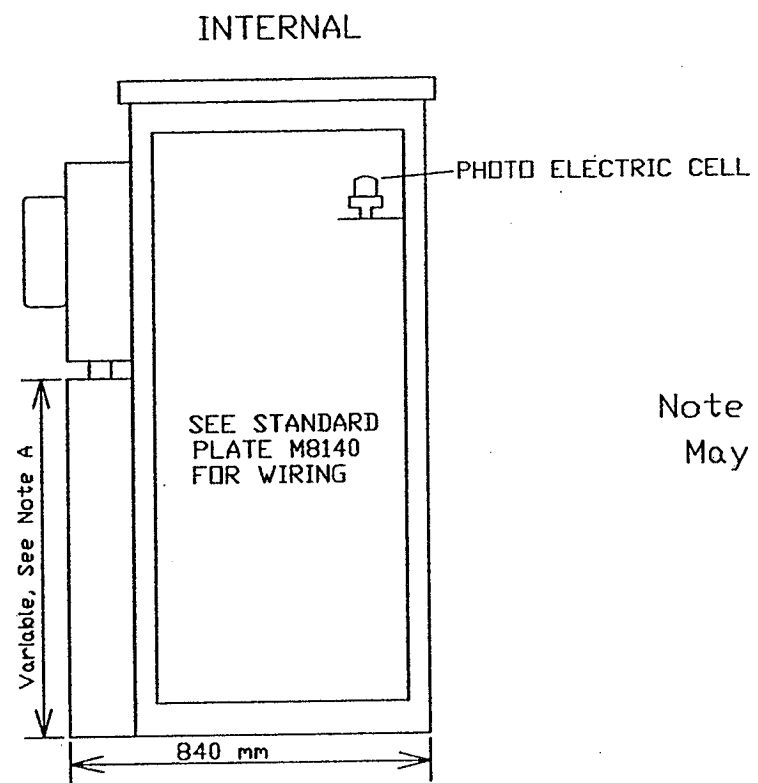
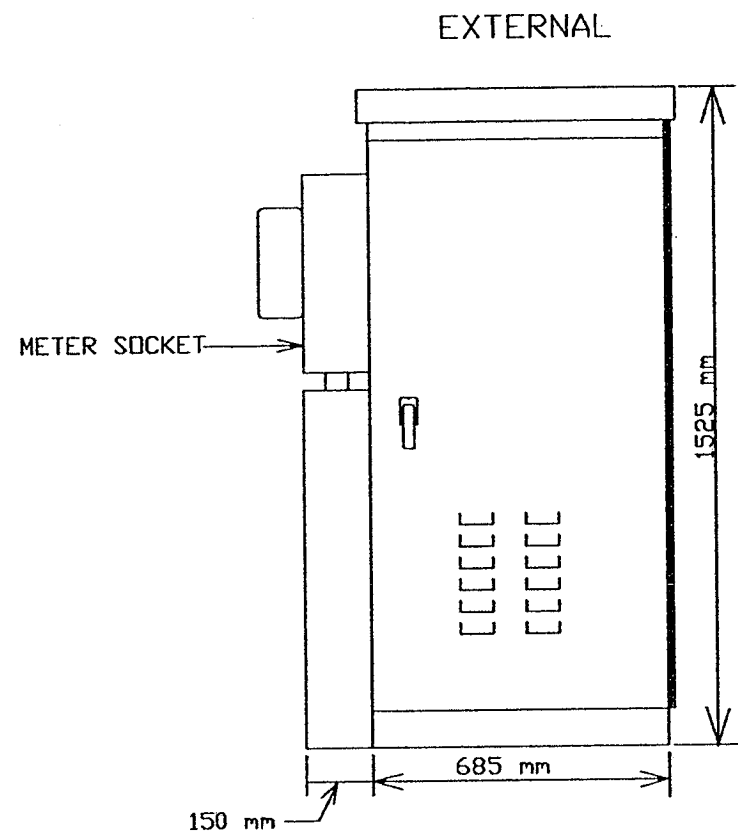
- HUBBELL RLG WITH REGULATOR BALLAST FOR 240 VOLTS, CAT. NO. RL-GT-25S38-061-125-FD-M53
 - COOPER LIGHTING WITH CONSTANT WATTAGE BALLAST FOR 240 VOLTS CAT NO. QVY25SCW2E
 - GENERAL ELECTRIC M-400R2, AUTO-REGULATOR BALLAST FOR 240 VOLTS CAT. NO. MSCL25S0A12GMC2
- OR APPROVED EQUAL
- LAMPS SHALL BE 250 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

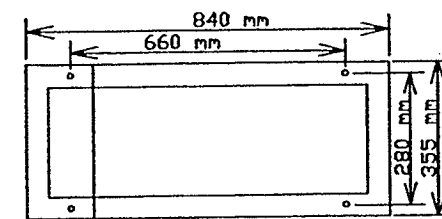
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LIGHTING DETAIL

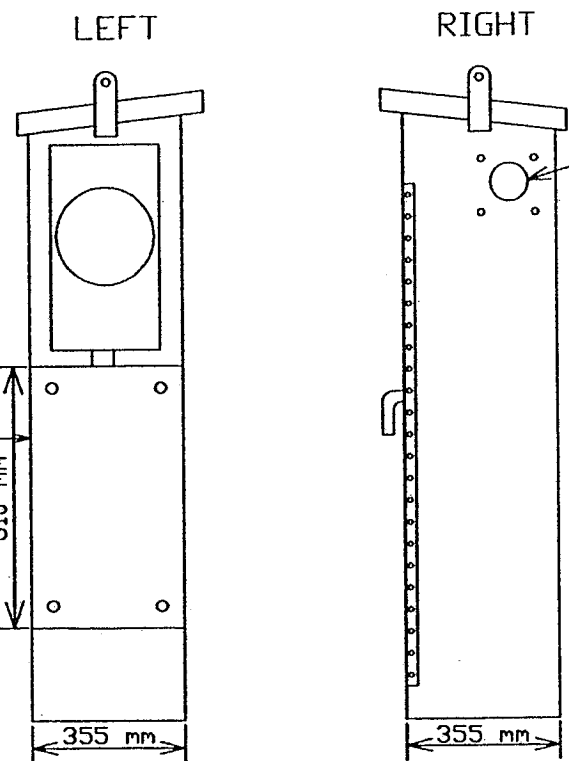


PAD MOUNTING PATTERN



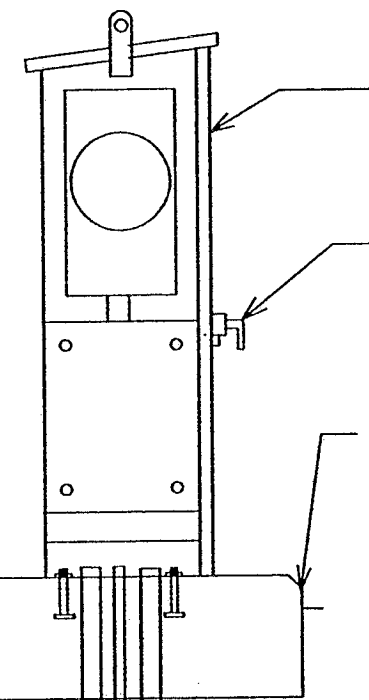
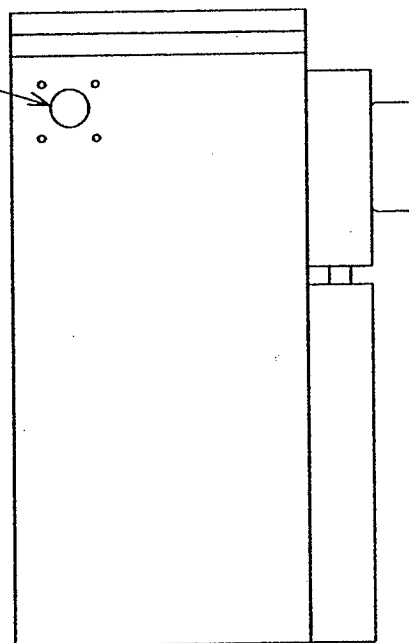
Note A: Height of compartment is approximately 840 mm. May vary depending upon size of meter socket.

SIDE VIEWS



BACK VIEW

P.E.C. WINDOW
90 mm
DIAMETER



SERVICE CABINET
SECONDARY TYPE L1.
SEE STANDARD PLATE
M8140 FOR WIRING.

LOCK SHALL BE STANDARD
POLICE LOCK AND KEY.
DOOR SHALL HAVE 3 POINT
LATCHING AND LOCKING.

EQUIPMENT PAD A REQUIRED

53 mm R.S.C.
3-1/C NO. 2
TO PAD MOUNTED
POWER CO. TRANSFORMER

LIGHTING SERVICE CABINET
SERVICE CABINET SECONDARY TYPE L1

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LIGHTING DETAIL

FILE 021240-2.DGN

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PROFESSIONAL ENGINEER

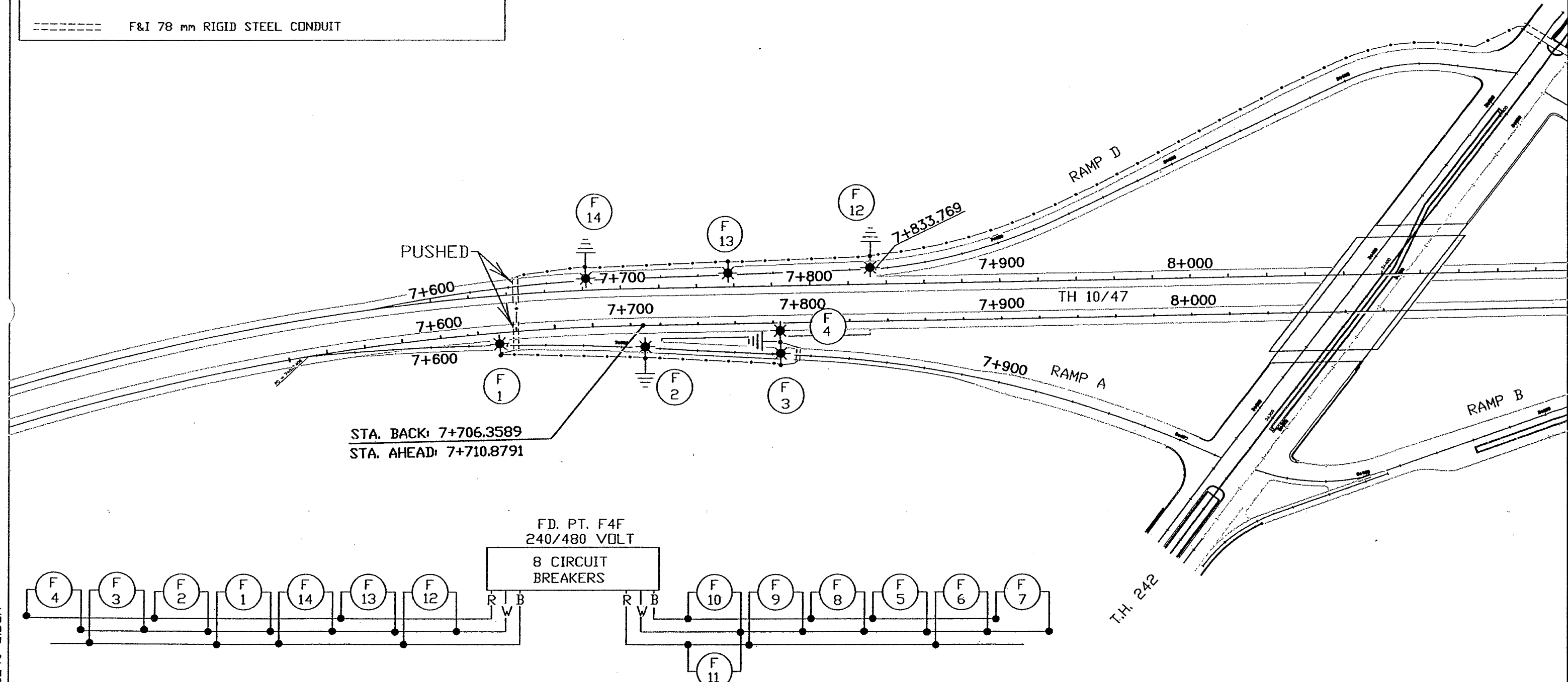
REG. NO. 21180

State Proj. No. 0212-40

Sheet No. 335 of 539 Sheets

LEGEND

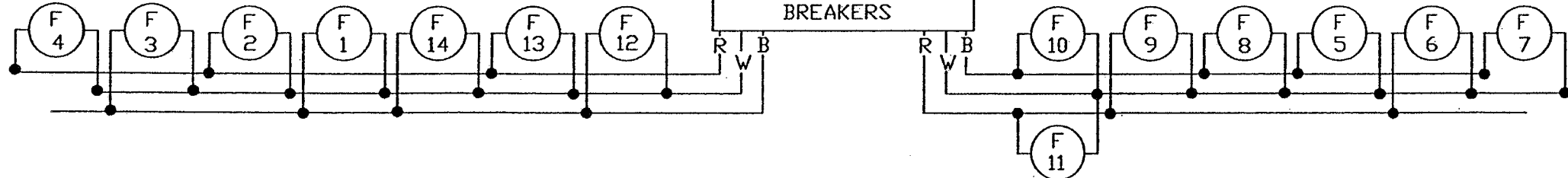
- PAD MOUNTED SOURCE OF POWER 240/480 V.
- * 250 WATT HIGH PRESSURE SODIUM LIGHTING UNIT
- DIRECT BURIED POWER CABLE 3 CONDUCTOR NO. 4 AWG. ARMORED CABLE SPEC. NO. 3815
- ||| PERMANENT GROUND ROD (25 OHMS OR LESS)
- F&I 78 mm RIGID STEEL CONDUIT



STA. BACK: 7+706.3589
 STA. AHEAD: 7+710.8791

FD. PT. F4F
 240/480 VOLT

8 CIRCUIT
 BREAKERS



B AND R DENOTE CURRENT CARRYING CONDUCTORS
 W DENOTES NEUTRAL CONDUCTOR

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LIGHTING PLAN

FILE: 021240-2.DGN

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PROFESSIONAL ENGINEER

State Proj. No. 0212-40

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REMOVE LIGHTING UNIT
REMOVE LIGHT STANDARD BASE



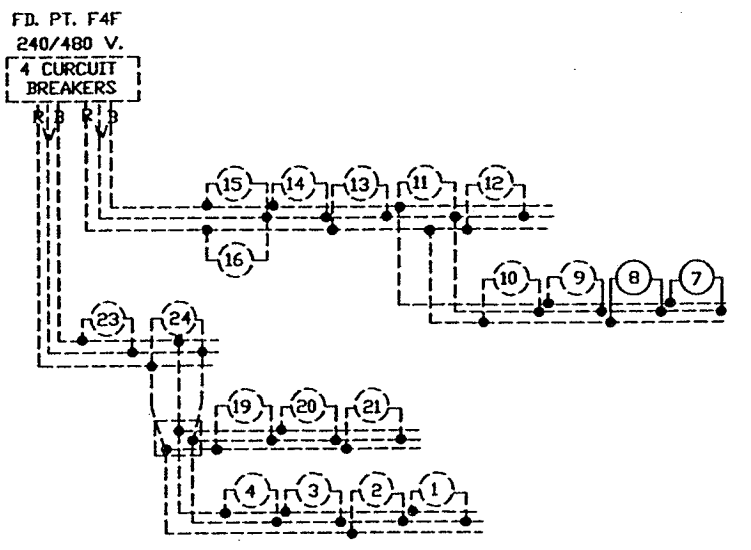
SALVAGE SERVICE CABINET



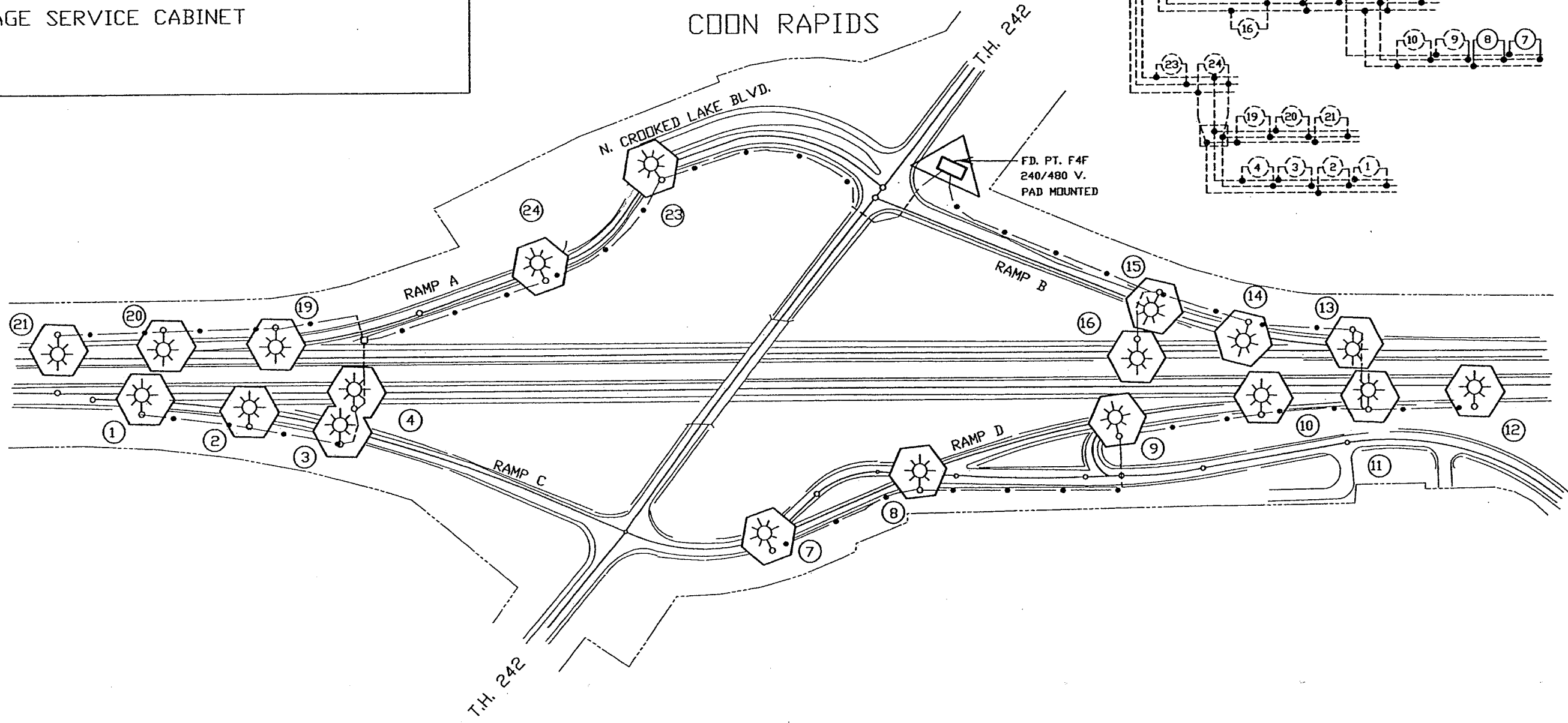
COON RAPIDS

FD. PT. F4F
240/480 V.
4 CIRCUIT
BREAKERS

FD. PT. F4F
240/480 V.
PAD MOUNTED



TH 10/47



FILE 021240-2.DGN

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REMOVAL PLAN

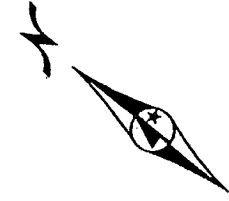
LIGHTING PLAN

CERTIFIED BY *Susan A. Ladd*
PROFESSIONAL ENGINEER

REG. NO. 21180

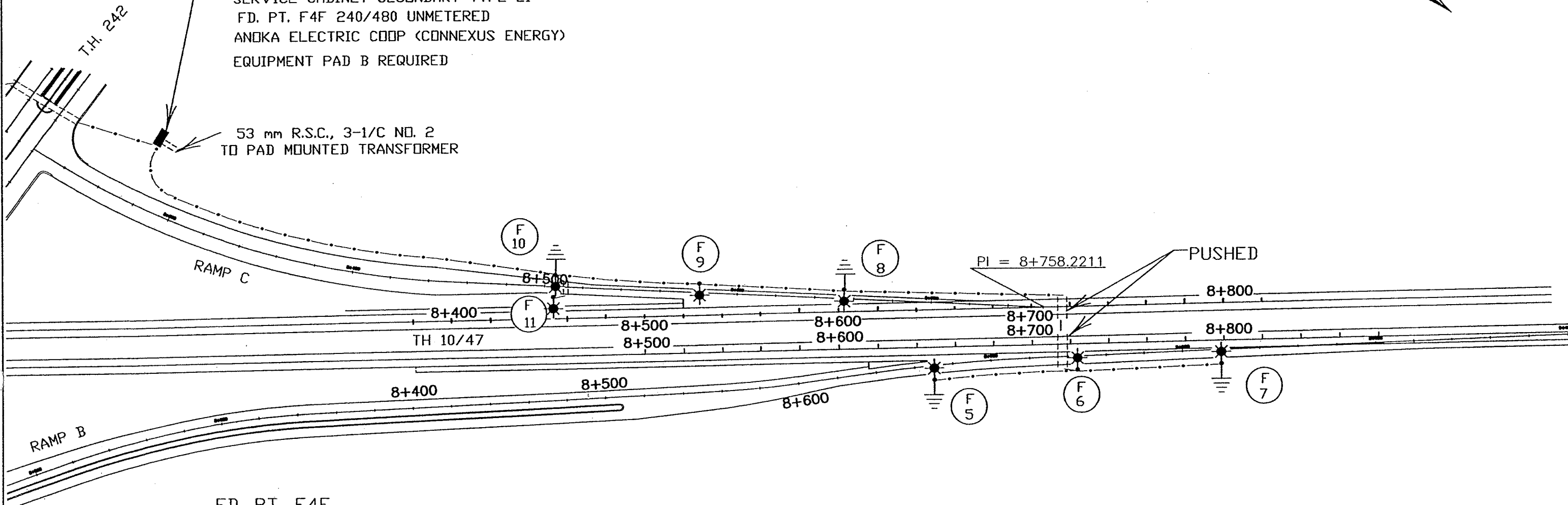
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PAD MOUNTED SOURCE OF POWER
 SERVICE CABINET SECONDARY TYPE L1
 FD. PT. F4F 240/480 UNMETERED
 ANOKA ELECTRIC COOP (CONNEXUS ENERGY)
 EQUIPMENT PAD B REQUIRED

53 mm R.S.C., 3-1/C NO. 2
 TO PAD MOUNTED TRANSFORMER



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

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LIGHTING PLAN

FILE 021240-2.DGN

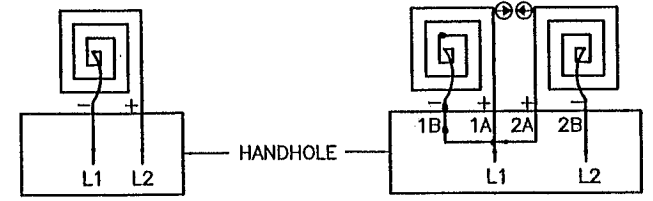
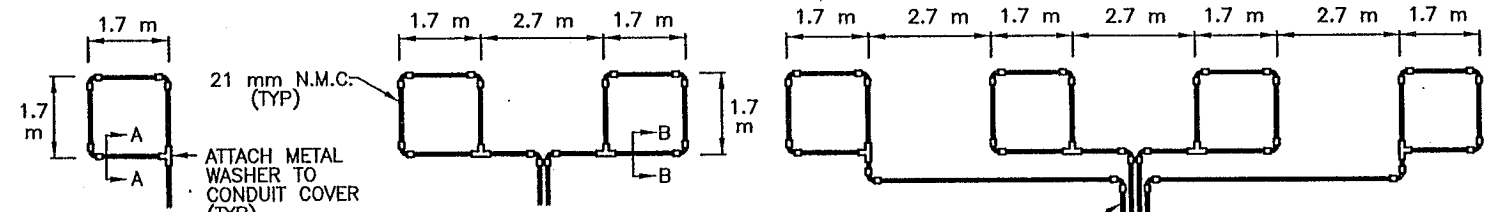
CERTIFIED BY

Susan J. Laddell
 PROFESSIONAL ENGINEER

REG. NO. 21180

State Proj. No. 0212-40

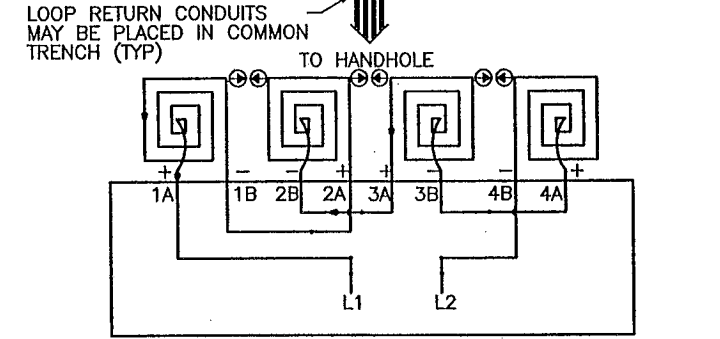
Sheet No. 338 of 539 Sheets



LOOP DETECTOR DETAIL 'A'
(LOOP PHASING FOR SINGLE CONNECTION)

L1 TO 1A
L2 TO 2A

LOOP DETECTOR DETAIL 'B'
(LOOP PHASING FOR SERIES CONNECTION)

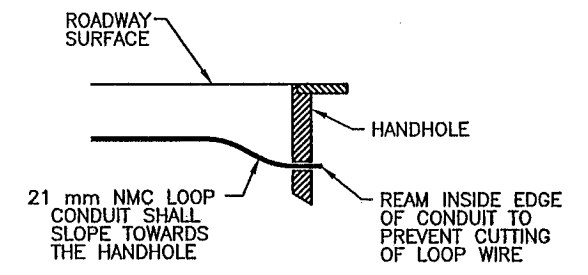
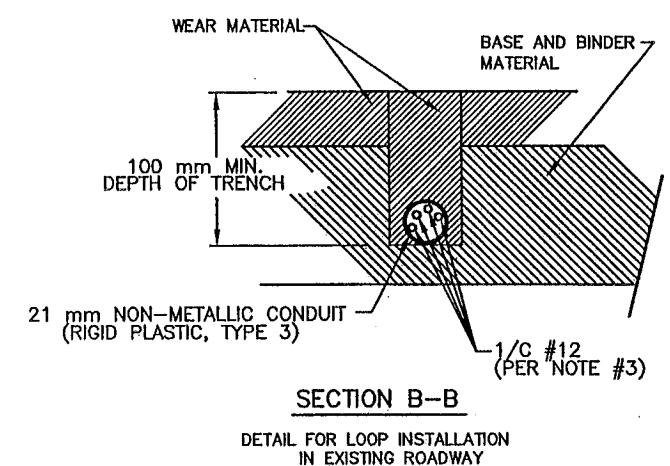
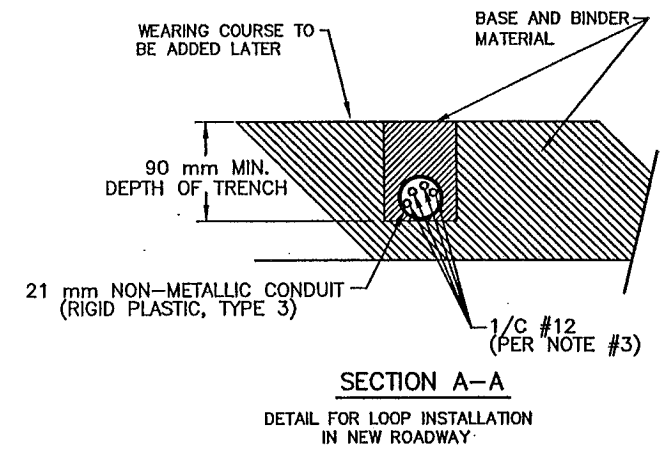


LOOP CONNECTIONS SHALL BE LABELED AND SPLICED IN THE HANDHOLE AS FOLLOWS:

L1 TO 1A 3B TO 4A
L2 TO 2A 4B TO L2
L2 TO 3A

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)



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.

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

J-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
EQQ	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

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)

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PLOT DATE: Jul 06, 2004 12:45pm DISK FILE NAME: (15.06) R: 33889 33889028 33889E SIGNALS\main\As-Built\Sigdet_1.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/8/2000	UPDATED LEGEND & SYMBOLS AND ABBREVIATIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028

DRAWN BY: JAS	DESIGN BY: JRN
CHKD. BY: RJG	DWG. NAME: SIGDET_1
DATE: DECEMBER 21, 1999	

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

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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A DAMES & MOORE GROUP COMPANY

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Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

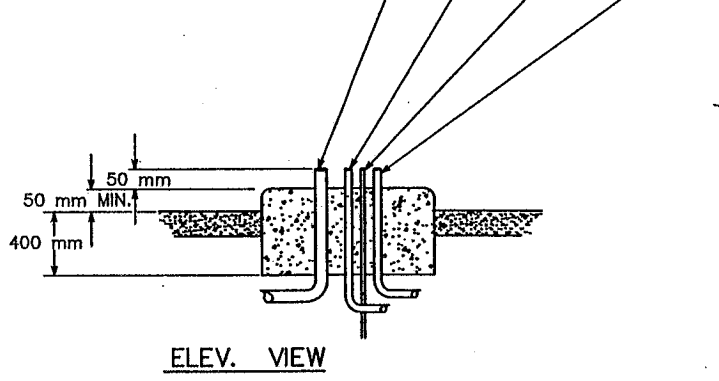
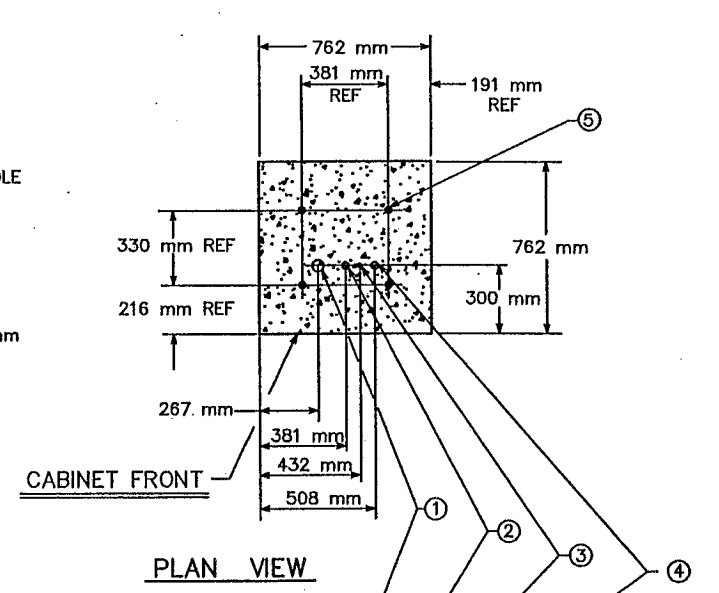
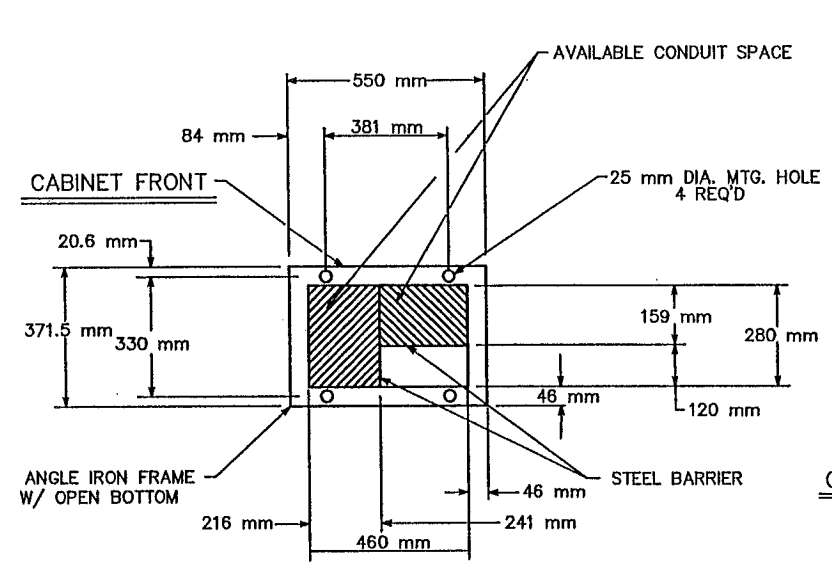
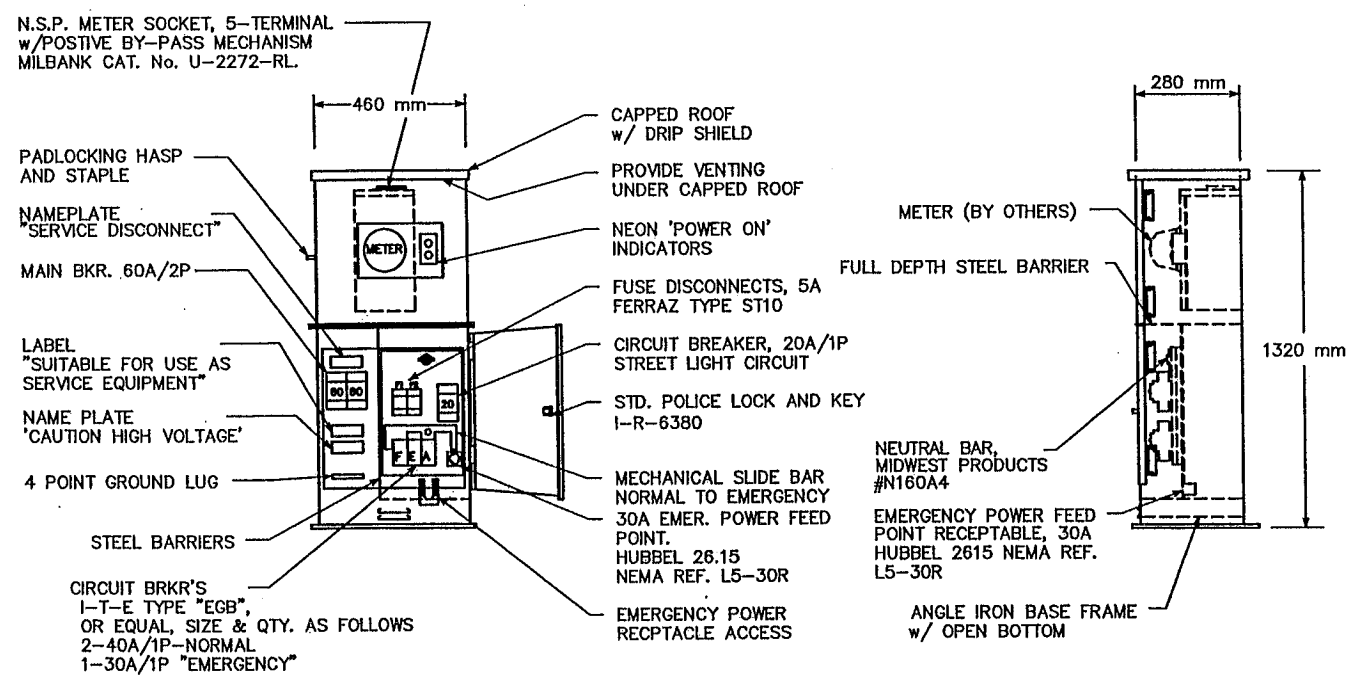
**MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
NMC LOOP DETECTOR DETAILS
AND STANDARD PLATES.**

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)		SHEET NO.
S.A.P. 02 - 614 - 19		339
S.A.P. 02 - 618 - 24		
S.P. 114 - 010 - 11		539
S.A.P. 114 - 020 - 19		
S.A.P. 114 - 136 - 02		
S.A.P. 114 - 127 - 02		

SIGNAL SERVICE CABINET

SERVICE CABINET FOUNDATION

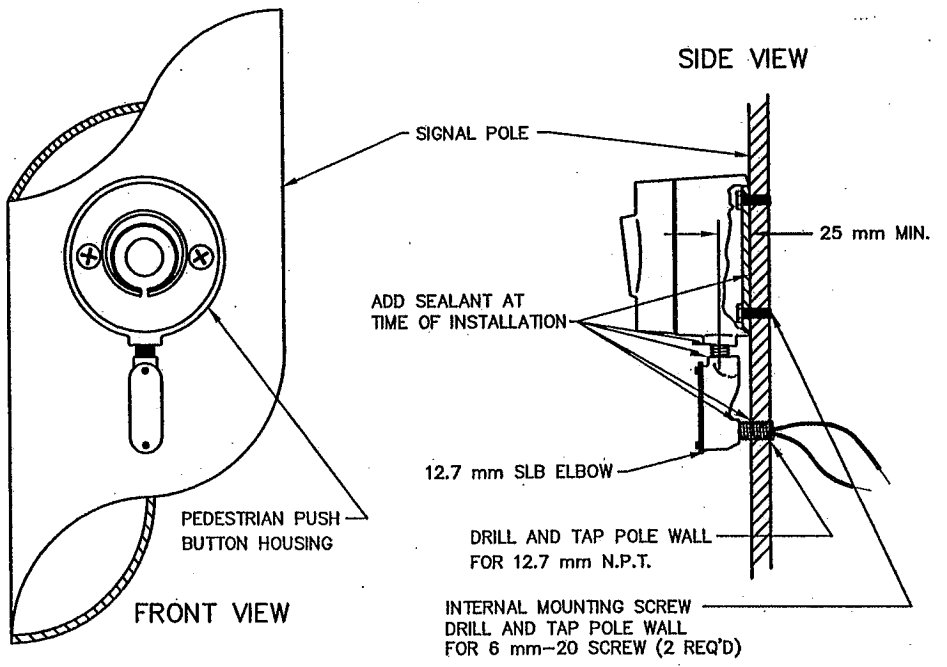


CONSTRUCTION NOTES

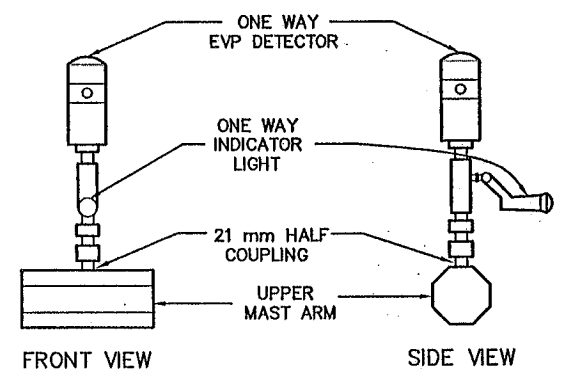
ENCLOSURE SHALL BE FABRICATED FROM #12 GA. ALL WELDED COLD ROLLED STEEL FOR OUTDOOR WEATHER PROOF SERVICE. DOORS TO BE GASKETED, ALL HINGES, PINS AND LOCKS TO BE OF NON CORRODING CONSTRUCTION. CABINET TO BE PRIMED INSIDE AND OUT WITH RUST INHIBITING PRIMER. FINISH PER MN/DOT #3527. ENCLOSURE SHALL BE 'UL' APPROVED

- 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)

MAST ARM POLE PEDESTRIAN PUSH BUTTON DETAIL



EVP DETECTOR AND LIGHT MOUNTING DETAIL ON MAST ARM



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PLOT DATE: Jul 06, 2004 12:45pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Sigdet_2.dwg

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

DESIGN FILE: 33889028	DESIGN BY: JRN
DRAWN BY: JAS	DWG. NAME: SIGDET_2
CHKD. BY: RJK	DATE: DECEMBER 21, 1999

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

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Robert J. Green

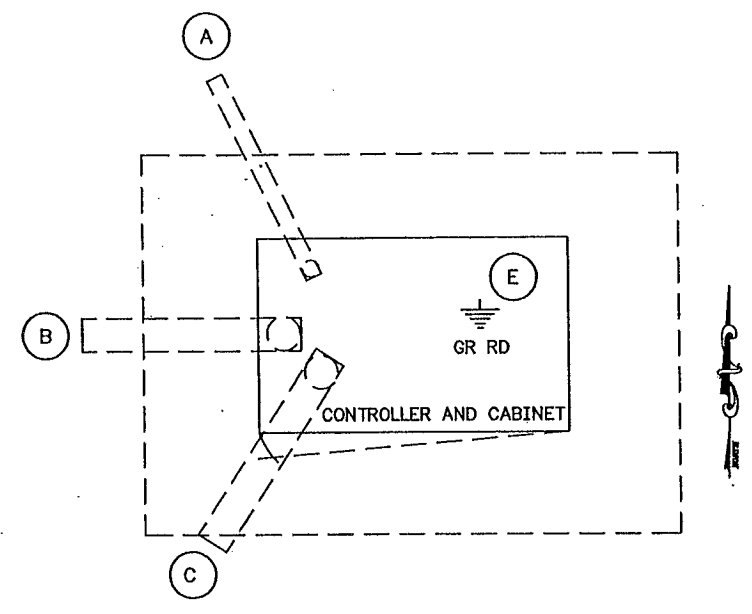
DATE: 12/21/99 MINN. REG. NO. 22793

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)	SHEET NO.
S.A.P. 02 - 614 - 19	340
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

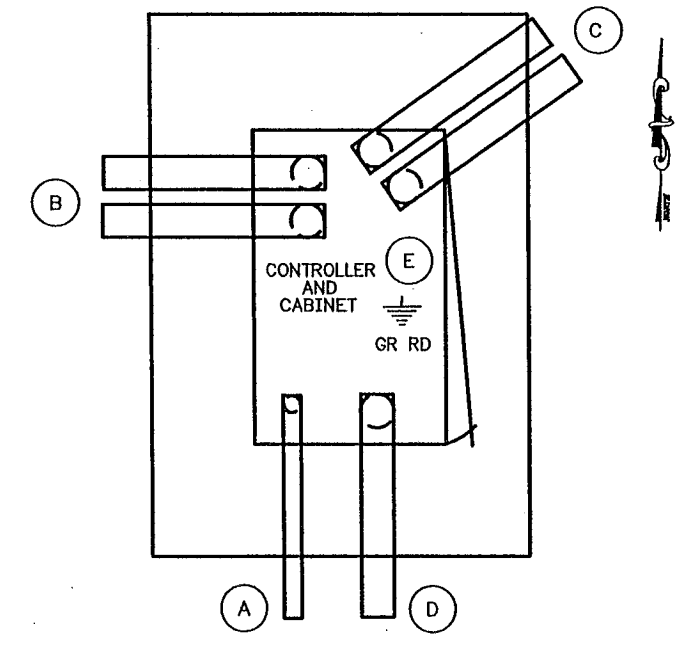
PLOT DATE: Jul 13, 2004 8:13am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Sigdet_4.dwg



- (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"**

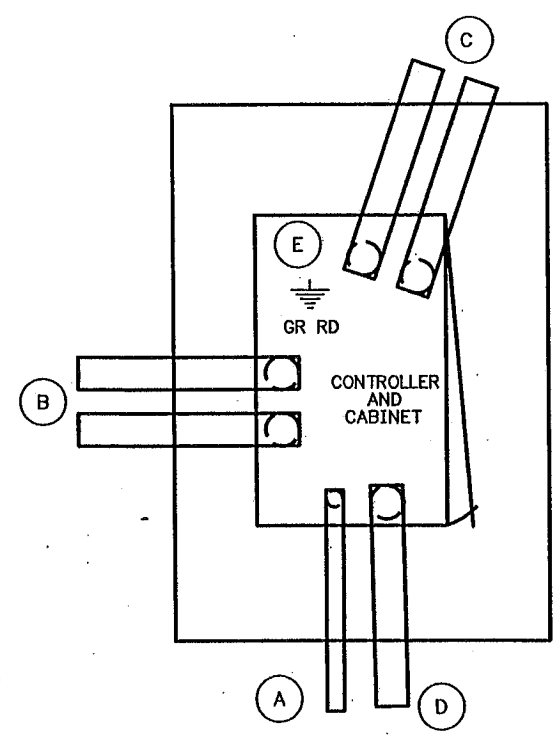


- (A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 15)
- (B) 2-78 mm R.S.C. TO HH 1
- (C) 2-78 mm R.S.C. TO HH 15
- (D) 78 mm R.S.C. TO FIBER-OPTIC VAULT
- (E) 15.8 mm DIA X 4.6 m GROUND ROD

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"**

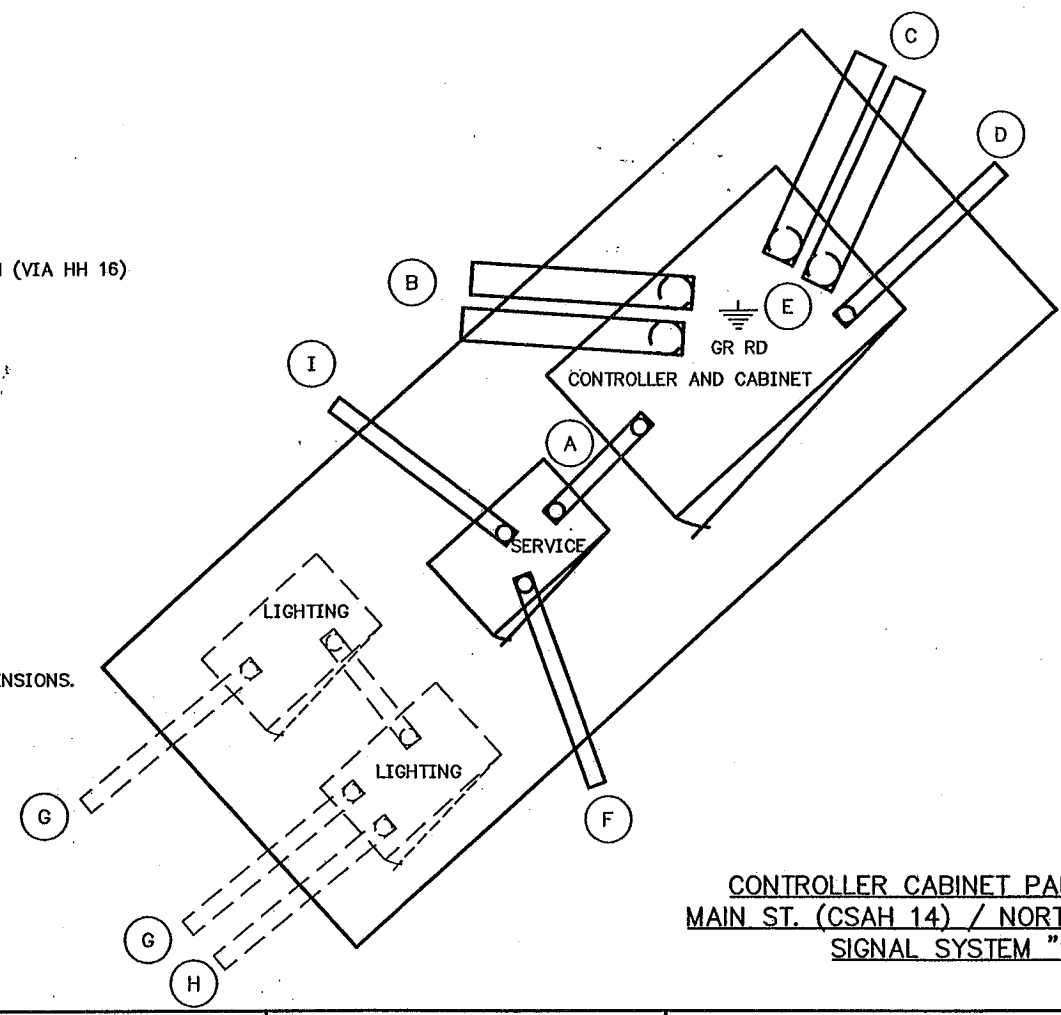


- (A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 16)
- (B) 2-78 mm R.S.C. TO HH 1
- (C) 2-78 mm R.S.C. TO HH 15
- (D) 78 mm R.S.C. TO FIBER-OPTIC VAULT
- (E) 15.8 mm DIA X 4.6 m GROUND ROD

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) / NORTHDAL 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
CHKD. BY: RJG	DWG. NAME: SIGDET_4
DATE: DECEMBER 21, 1999	

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

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700 THIRD STREET SOUTH
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Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

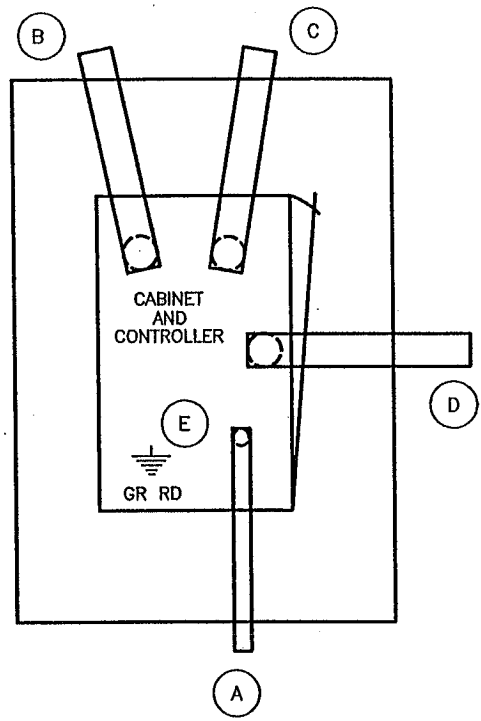
**MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
EQUIPMENT PAD LAYOUTS**

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

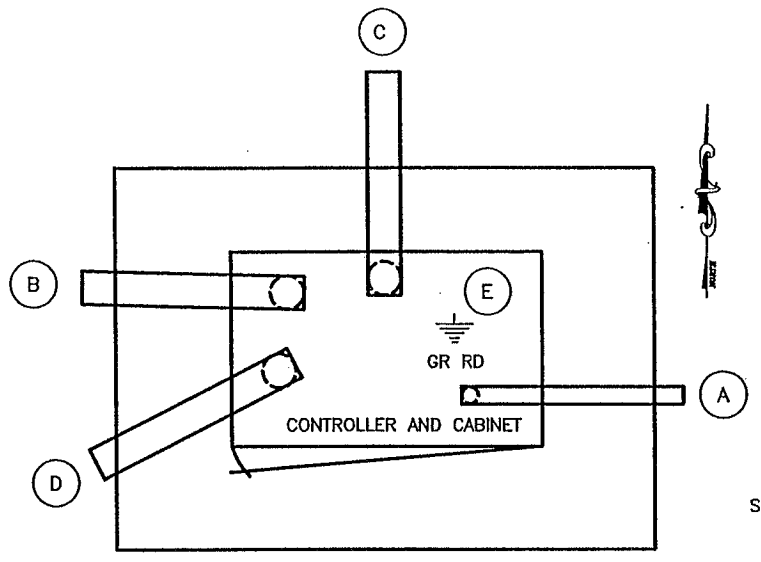


- (A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 12)
- (B) 103 mm R.S.C. TO HH 1
- (C) 103 mm R.S.C. TO HH 11
- (D) 78 mm R.S.C. STUBOUT, THREAD & CAP BOTH ENDS (FOR FUTURE USE).
- (E) 15.8 mm DIA X 4.6 m GROUND ROD

CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. MB119 FOR DIMENSIONS.

SEE INTERSECTION LAYOUT FOR
CONDUIT & CABLE INFORMATION

CONTROLLER CABINET PAD LAYOUT
NORTHDAL BLVD. / 124TH AVE.
SIGNAL SYSTEM "E"

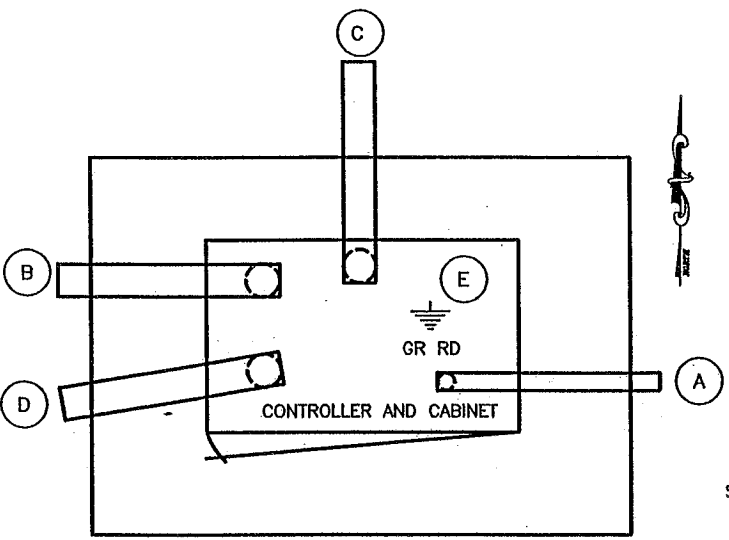


- (A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 13)
- (B) 103 mm R.S.C. TO HH 1
- (C) 103 mm R.S.C. TO HH 12
- (D) 78 mm R.S.C. TO FIBER-OPTIC VAULT
- (E) 15.8 mm DIA X 4.6 m GROUND ROD

CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. MB119 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"

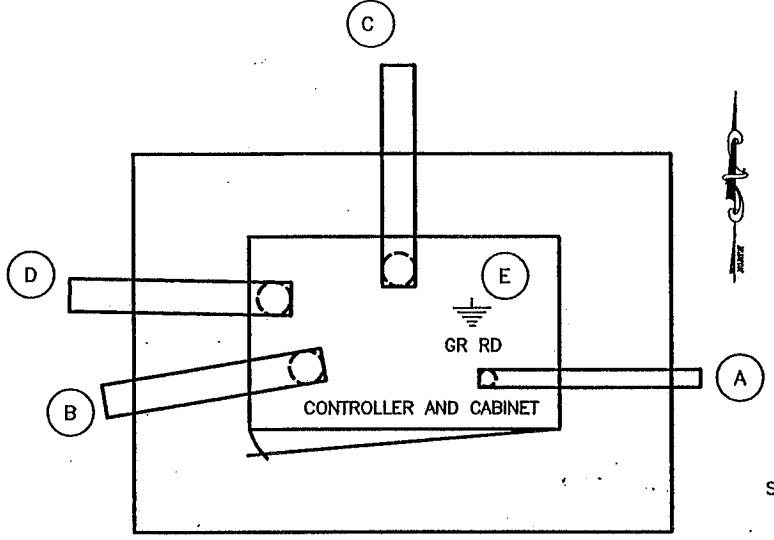


- (A) 35 mm R.S.C. FOR SERVICE CONNECTION (VIA HH 13)
- (B) 103 mm R.S.C. TO HH 1
- (C) 103 mm R.S.C. TO HH 12
- (D) 78 mm R.S.C. TO FIBER-OPTIC VAULT
- (E) 15.8 mm DIA X 4.6 m GROUND ROD

CONCRETE FOUNDATION
SEE MN/DOT STANDARD PLATE NO. MB119 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"



- (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. MB119 FOR DIMENSIONS.

SEE INTERSECTION LAYOUT FOR
CONDUIT & CABLE INFORMATION

CONTROLLER CABINET PAD LAYOUT
MAIN ST. (T.H. 242) / COON CREEK BLVD.
SIGNAL SYSTEM "H"

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PLOT DATE: Apr 30, 2004 3:19pm DISK FILE NAME: (15.06) R:\33889\33889028\SIGNALS\main\As-Built\Sigdet_5.dwg

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



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Robert J. Brun
DATE: 12/21/99 MINN. REG. NO. 22793

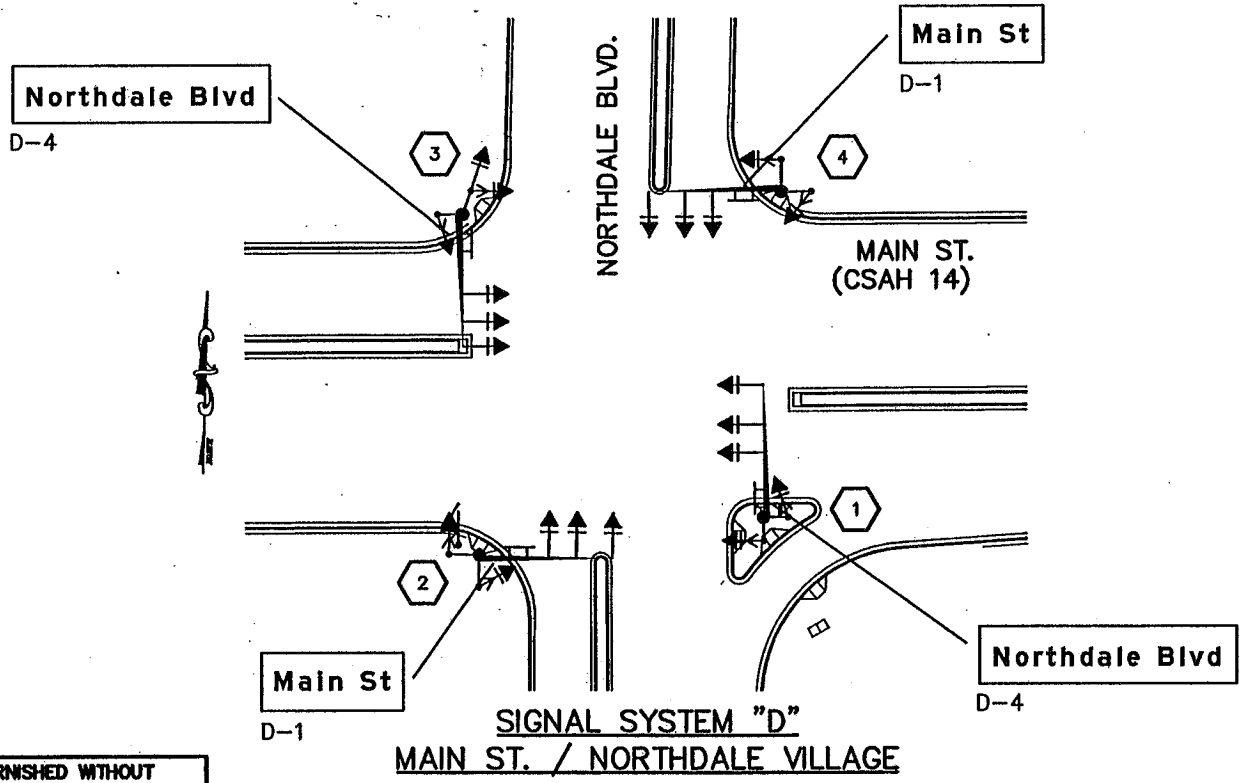
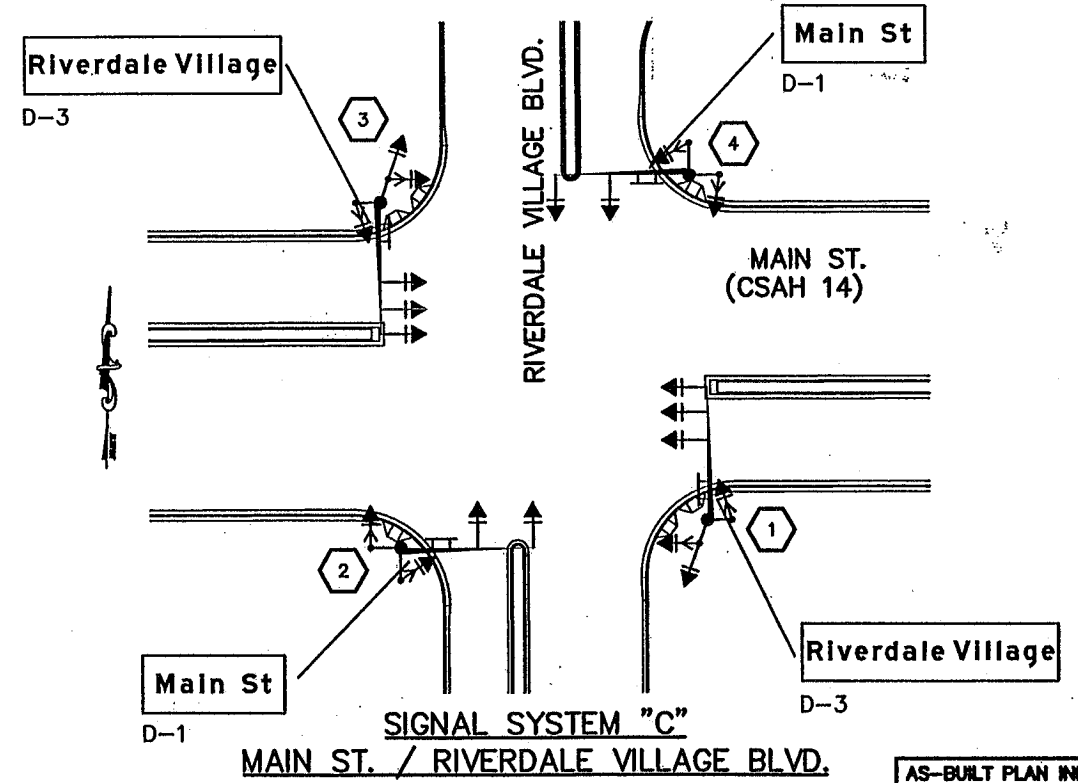
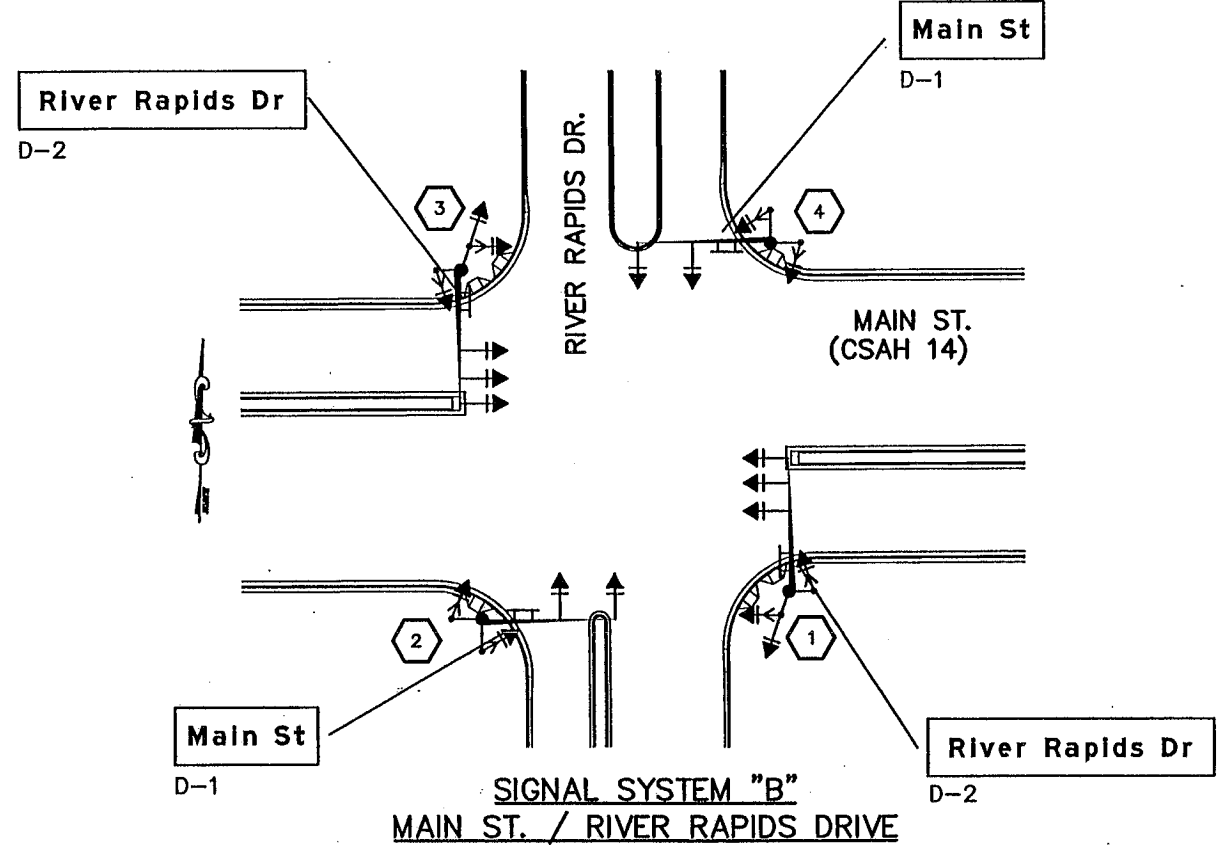
MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
EQUIPMENT PAD LAYOUTS

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

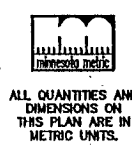
PLOT DATE: Apr 30, 2004 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Drawings2.dwg



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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
CHKD. BY: RJG	DWG. NAME: DSIGNS2
DATE: DECEMBER 21, 1999	



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(612)370-0700 (TEL)
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Robert J. Brun
DATE: 12/21/99 MINN. REG. NO. 22793

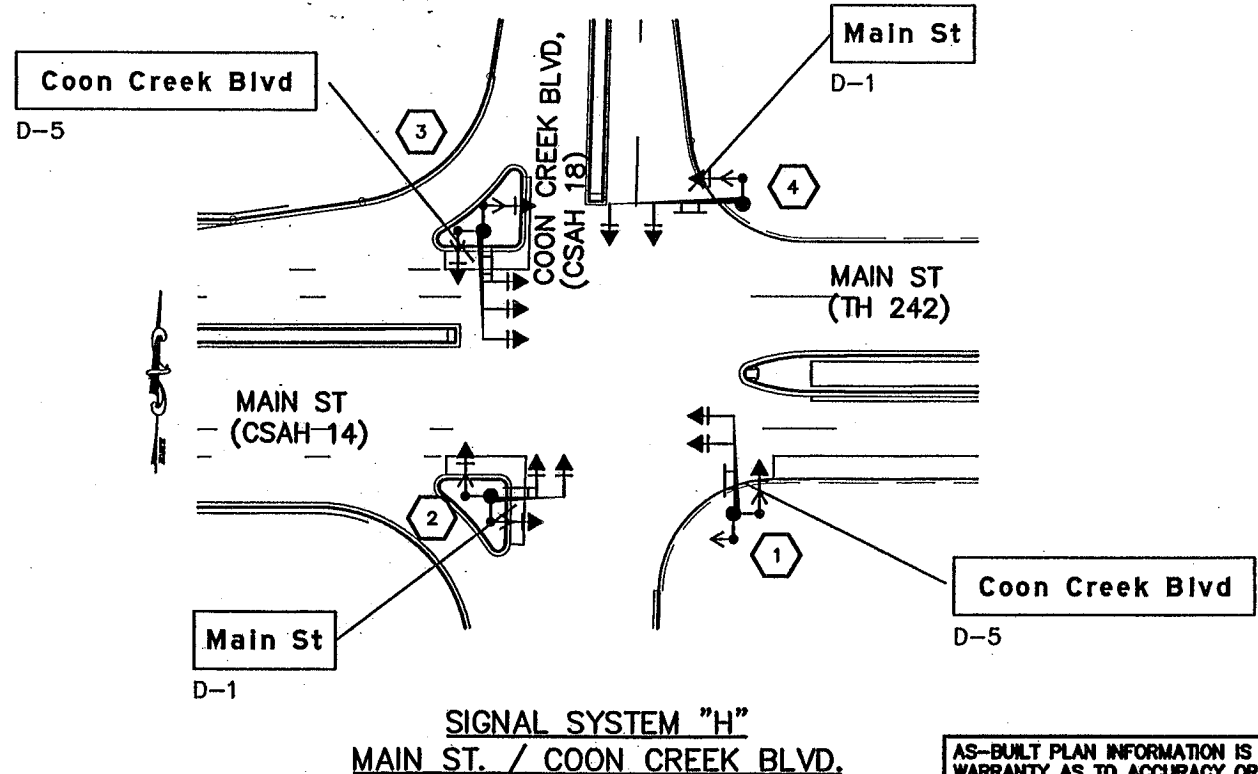
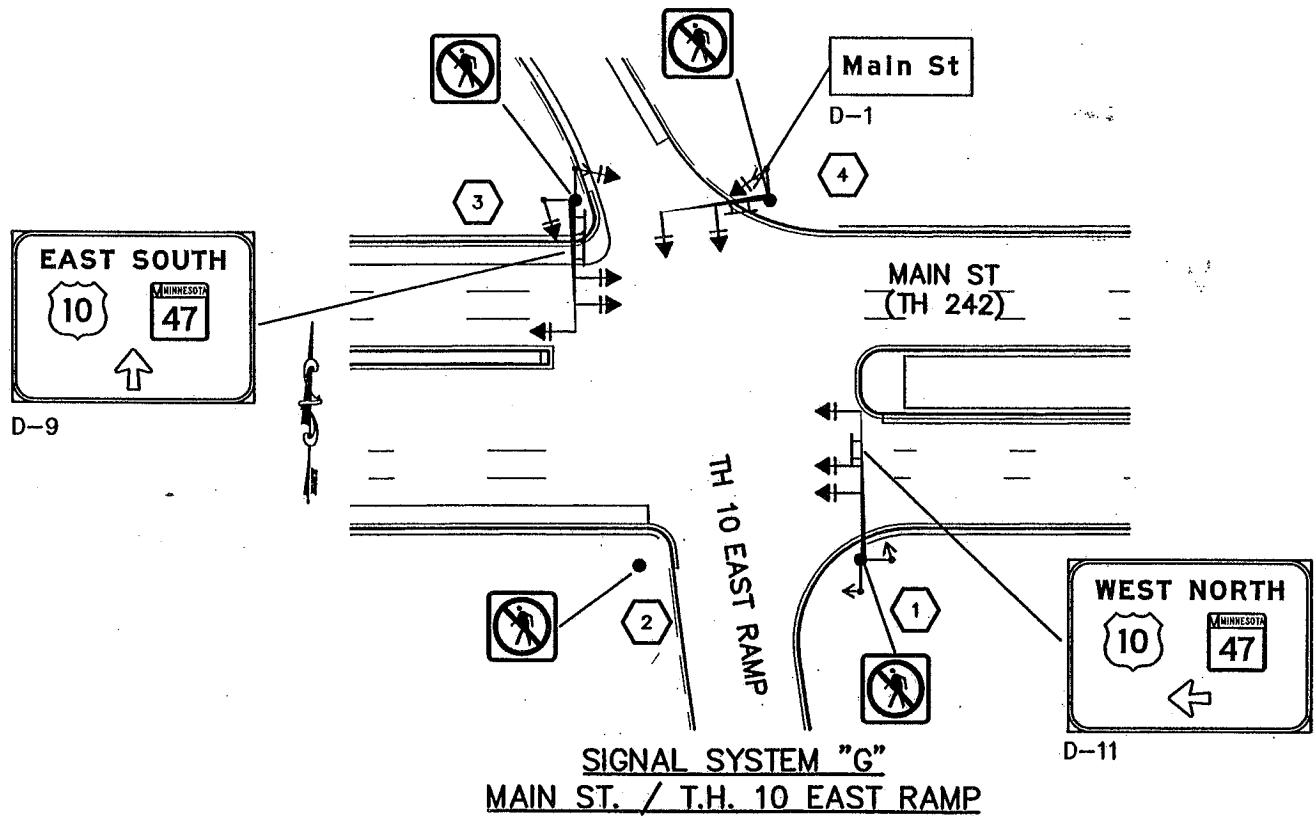
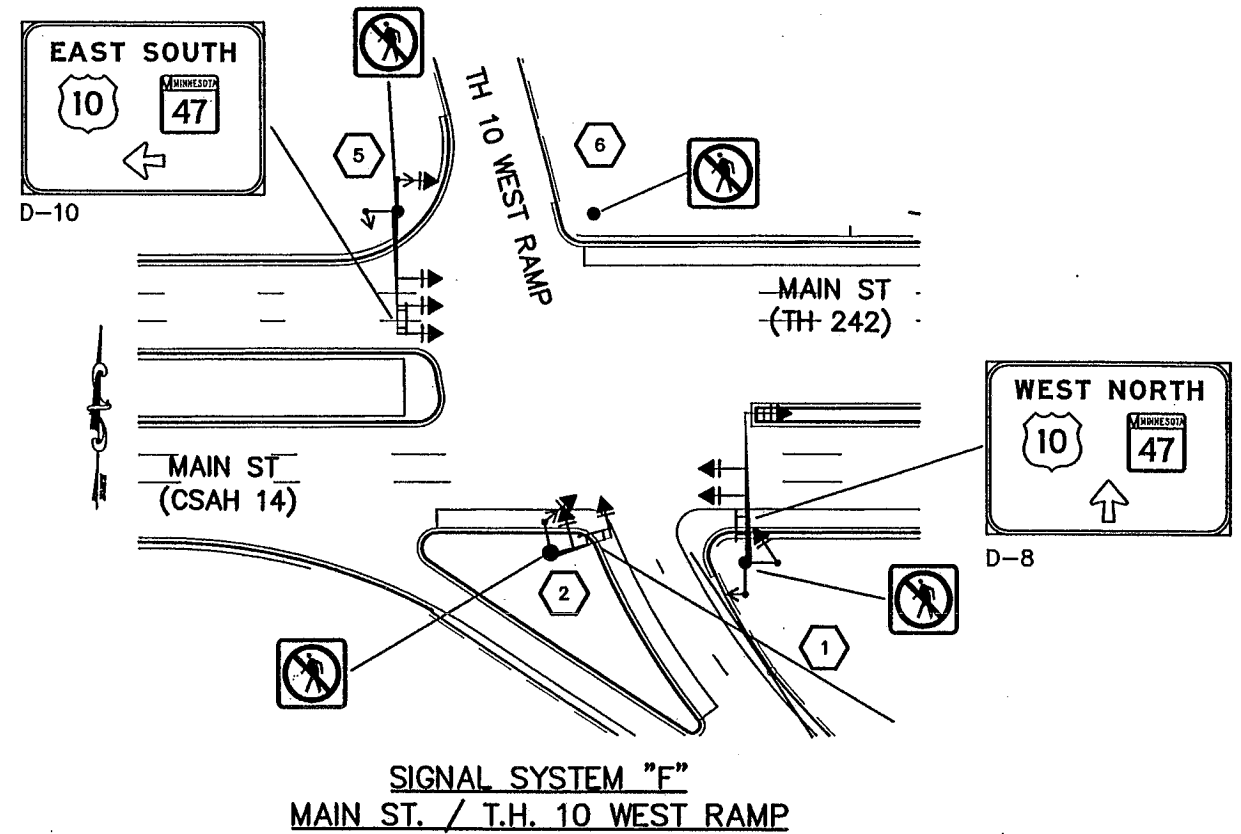
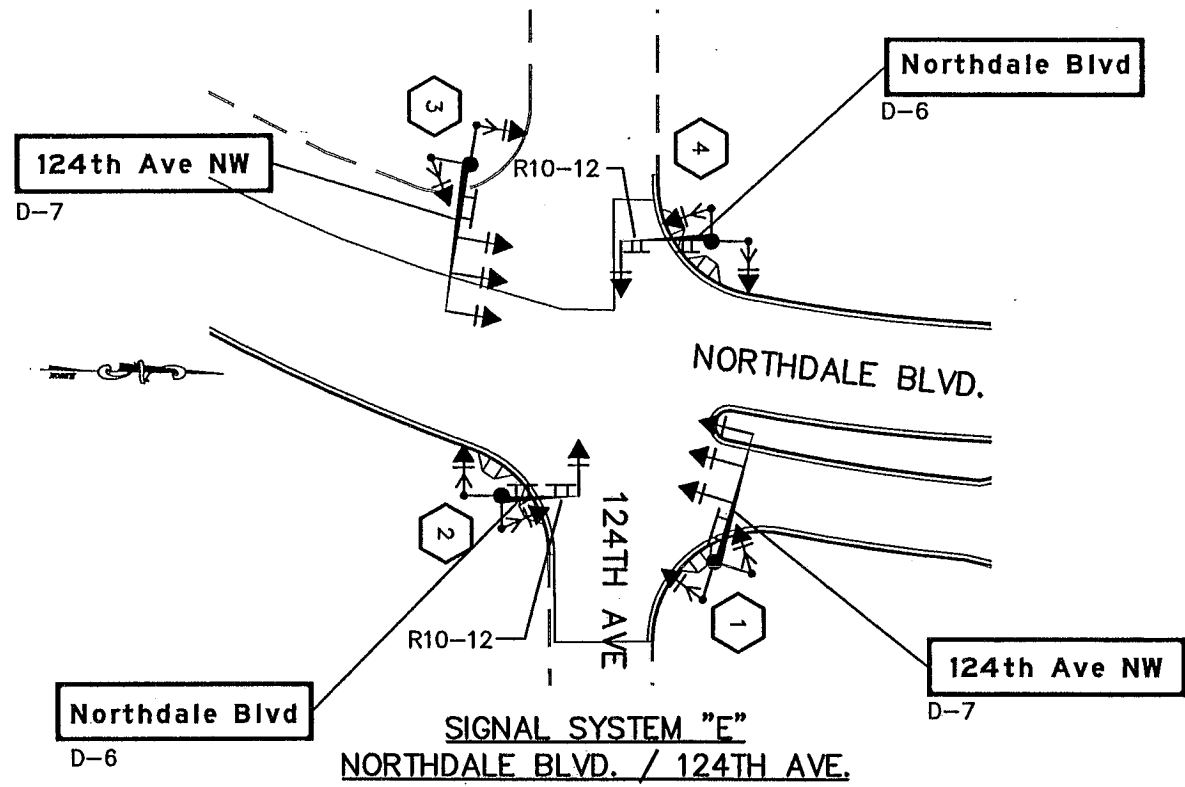
MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
SIGN LAYOUTS

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 11:45am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Designs4.dwg



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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
CHKD. BY:
RJC
DWG. NAME:
DSIGNS4
DATE:
DECEMBER 21, 1999



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

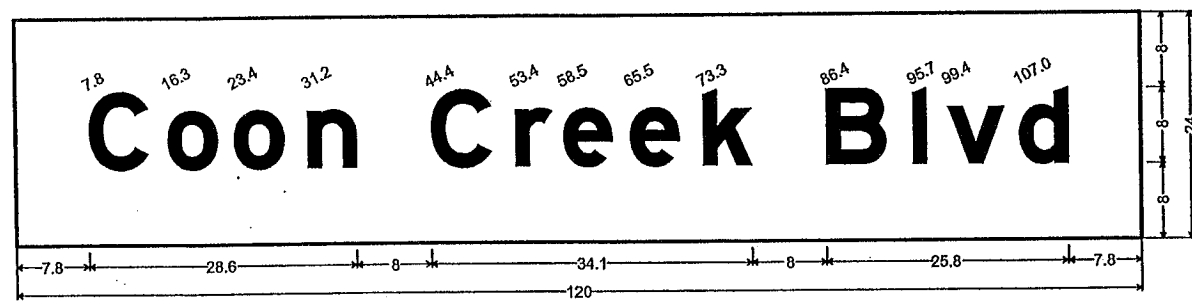


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Robert A. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
SIGN LAYOUTS
CITY PROJECT 98-20

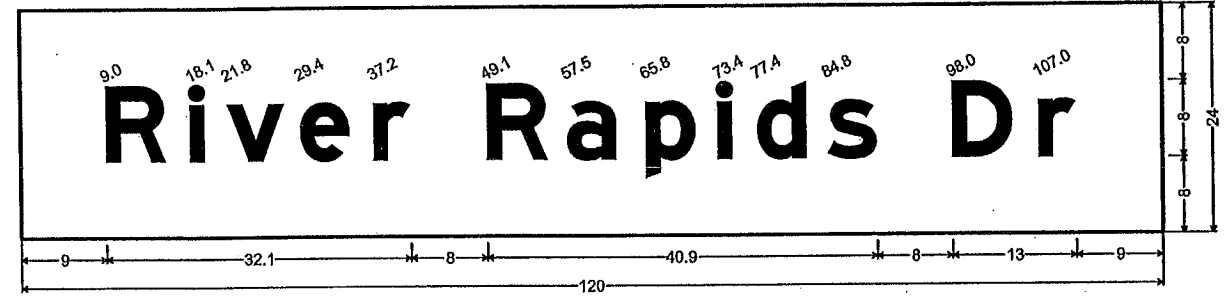
S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.A.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
344
539



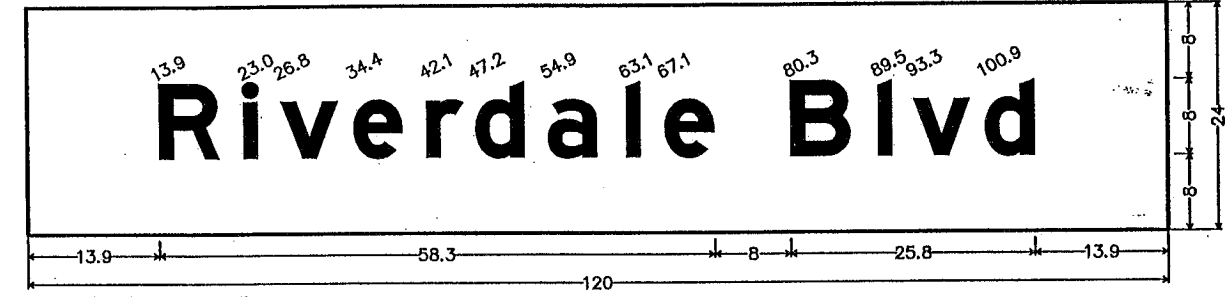
No border, White on Blue;
[Coon Creek Blvd] E Mod;

D-5



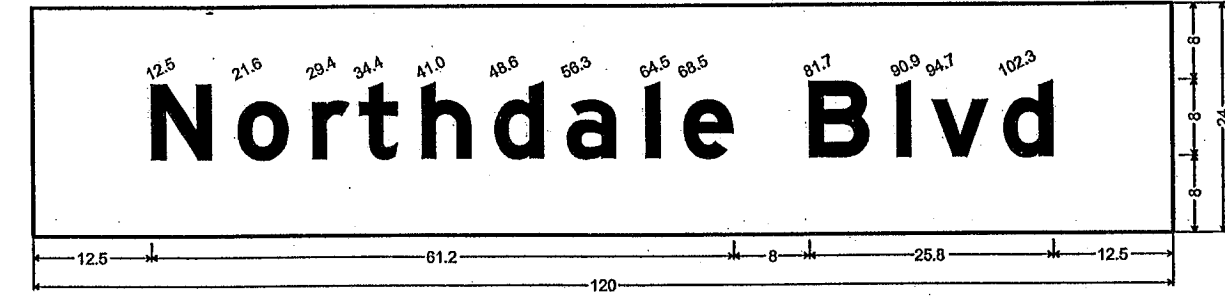
No border, White on Blue;
[River Rapids Dr] E Mod;

D-2



No border, White on White;
[Riverdale Blvd] Black E Mod;

D-3



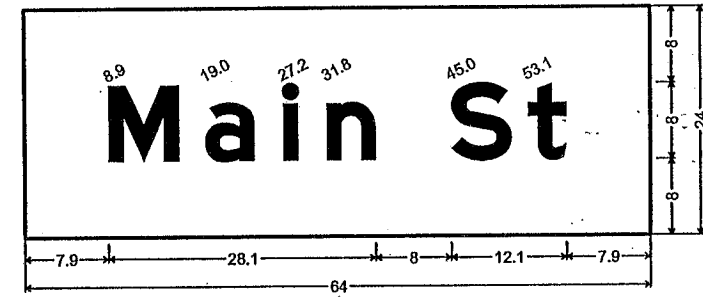
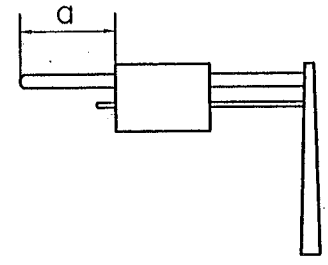
No border, White on Blue;
[Northdale Blvd] E Mod;

D-4

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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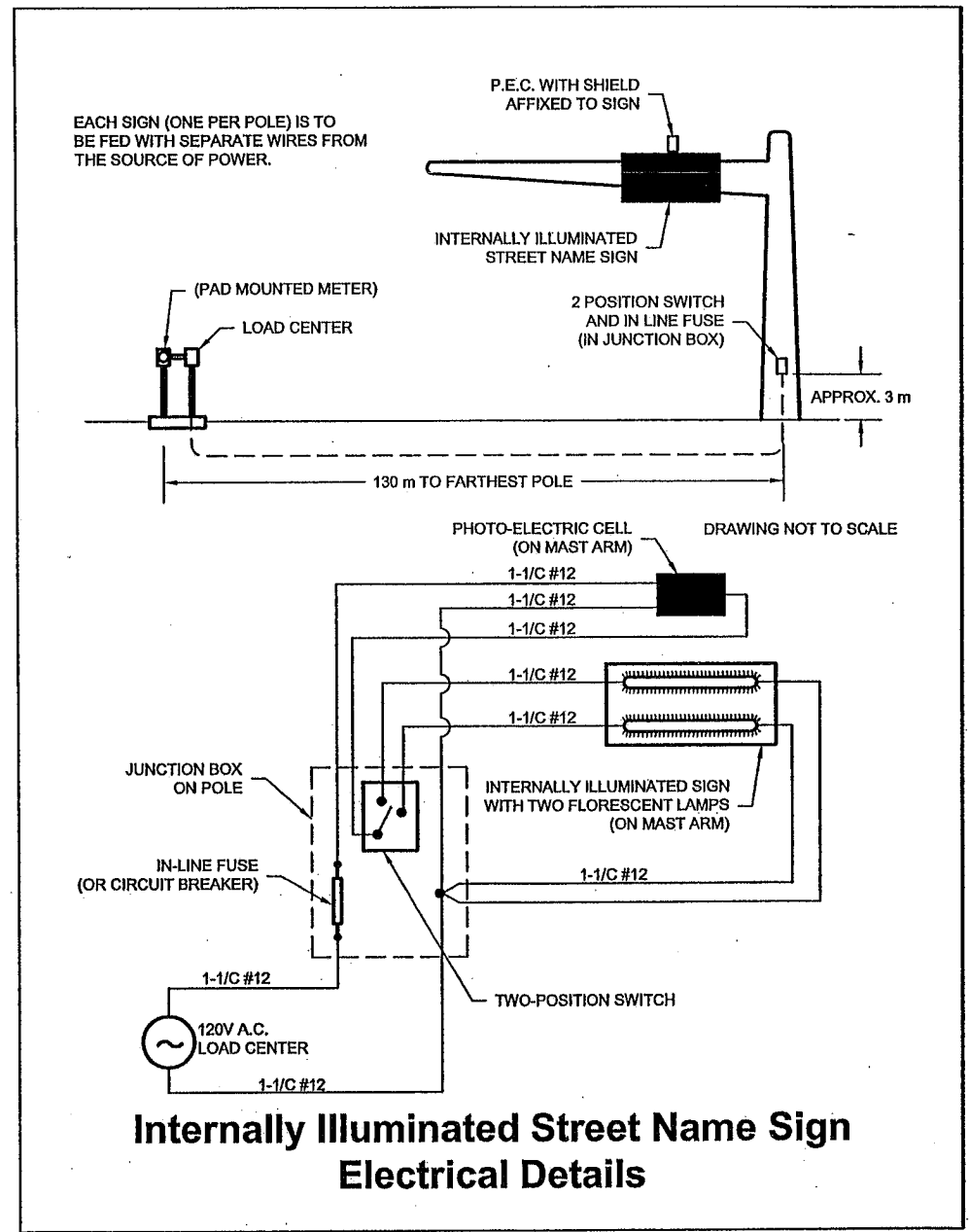
No border, White on Blue;
[Main St] E Mod;

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.

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Internally Illuminated Street Name Sign Electrical Details

PLOT DATE: Apr 30, 2004 11:48am DISK FILE NAME: (15.06) R:\33889\33889028\SIGNALS\Misc\As-Built\Dsigs1.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	SAW	2/16/00	ADDENDUM REVISE SIGN D-1 SIZE
2	JUL	5/09/00	MOD. REQ. #28; REV. RIVERDALE SIGN TEXT, VILLAGE TO BLVD
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
JAS
DESIGN BY:
JRN
CHKD. BY:
RJK
DWG. NAME:
DSIGNS1
DATE:
DECEMBER 21, 1999

BRW

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

A DAMES & MOORE GROUP COMPANY

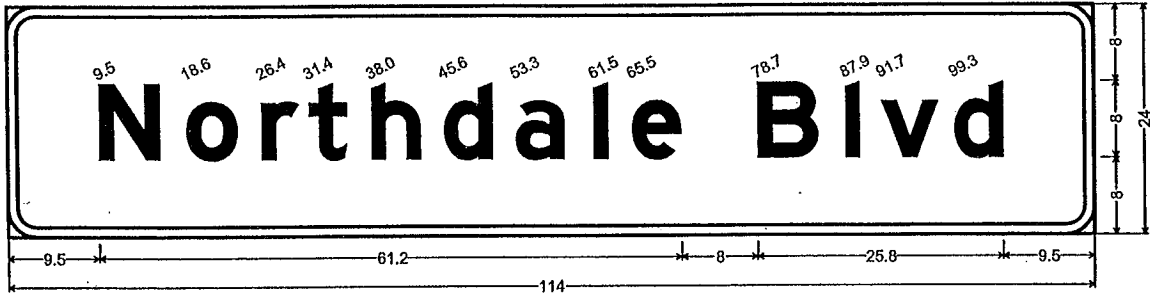
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16.
Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION TRAFFIC SIGNAL SYSTEM 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



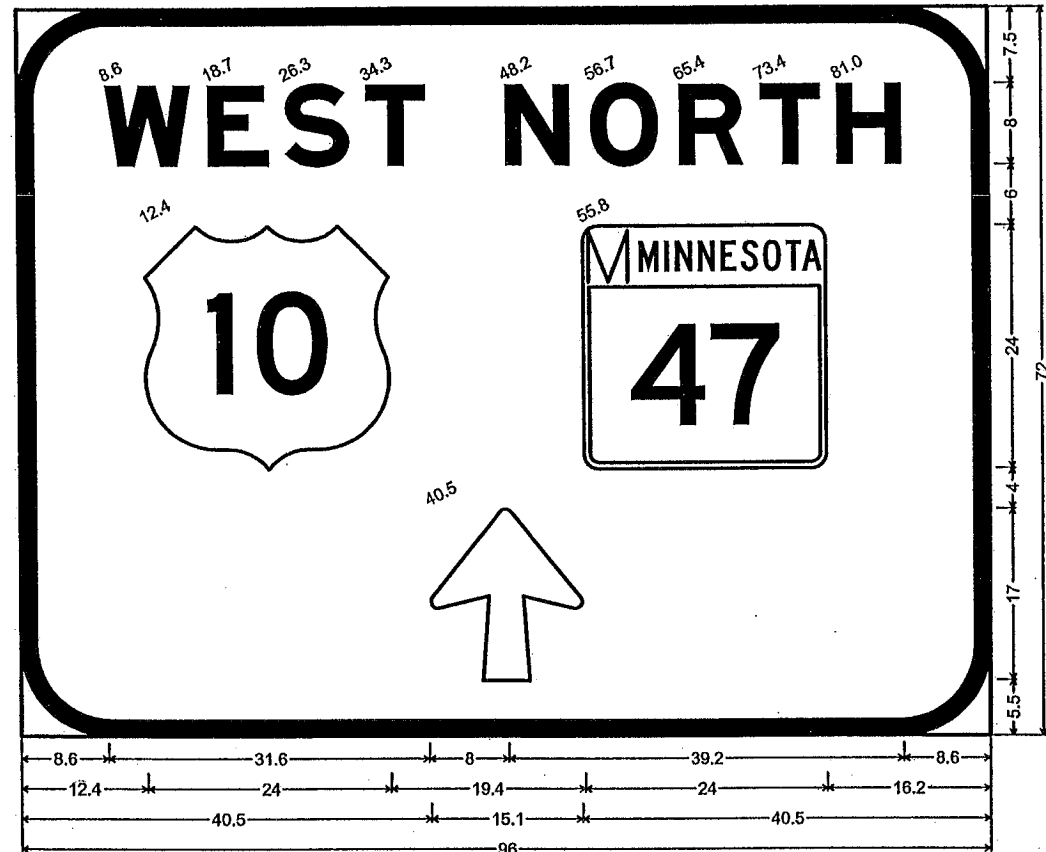
3.0" Radius, 1.0" Border, White on Green;
[Northdale Blvd] E Mod;

D-6



3.0" Radius, 1.0" Border, White on Green;
[124th Ave NW] E Mod;

D-7



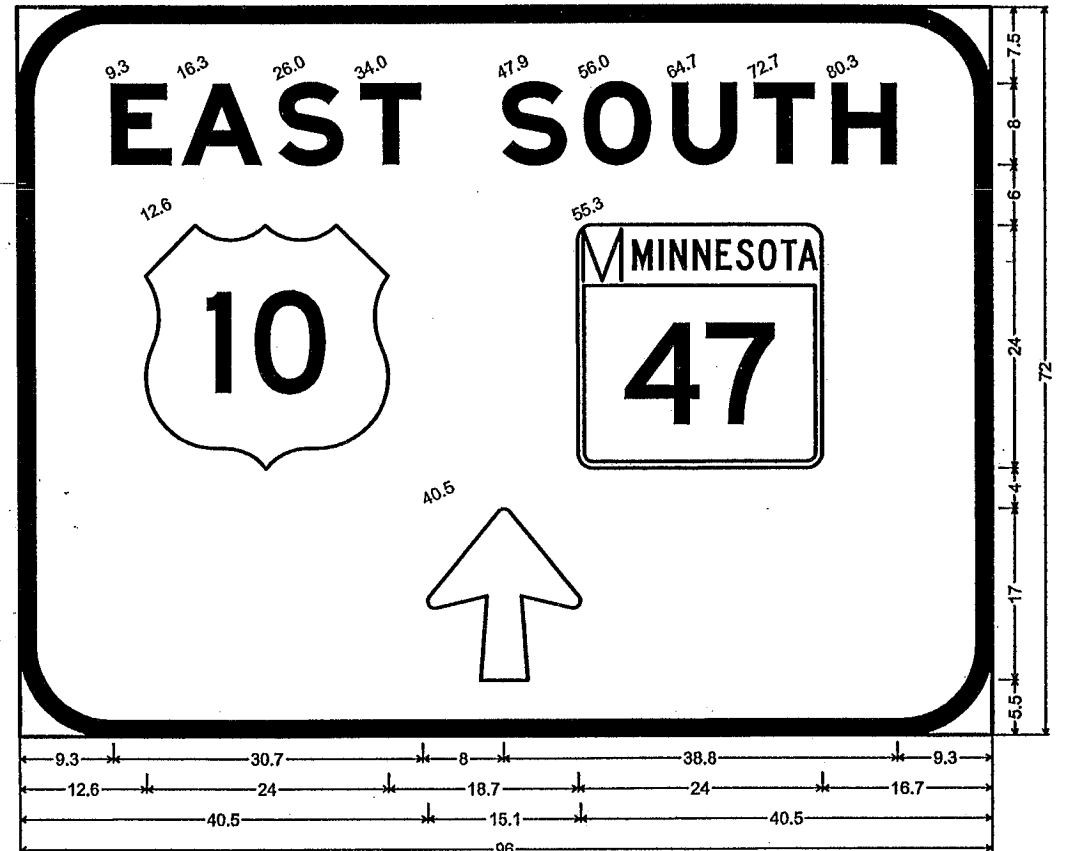
9.0" Radius, 1.5" Border, White on Green;
[WEST] Black E Mod; [NORTH] Black E Mod; Arrow 6 - 17.0° 90°;

D-8

NOTES:

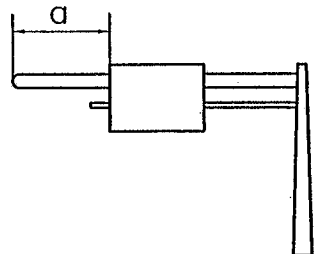
- 1) SIGNS D-6, D-7, D-8, D-9, D-10, D-11, AND D-12 SHALL BE STANDARD TYPE "D" SIGNS.
- 2) TYPE "D" SIGN COLOR-WHITE LEGEND AND BORDER ON GREEN BACKGROUND, FULLY REFLECTORIZED. (D-8,D-9, D-10 & D-11) D-6 AND D-7 WHITE LEGEND AND BORDER ON BLUE BACKGROUND, FULLY REFLECTORIZED.
- 3) CORNERS EXTENDING BEYOND 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.



9.0" Radius, 1.5" Border, White on Green;
[EAST] Black E Mod; [SOUTH] Black E Mod; Arrow 6 - 17.0° 90°;

D-9



SIGN PANEL	SIZE (Inches)	SIZE (meters)	NO. REQ.	NO. POSTS PER SIGN	POST SPACING (mm)	AREA (sq.m.) PER SIGN	POLE NUMBER, d (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.

PLOT DATE: Apr 30, 2004 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\Designs3.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/8/2000	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
CHKD. BY: R.JG	DWS. NAME: DSIGNS3
DATE: DECEMBER 21, 1999	



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



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Robert J. Green

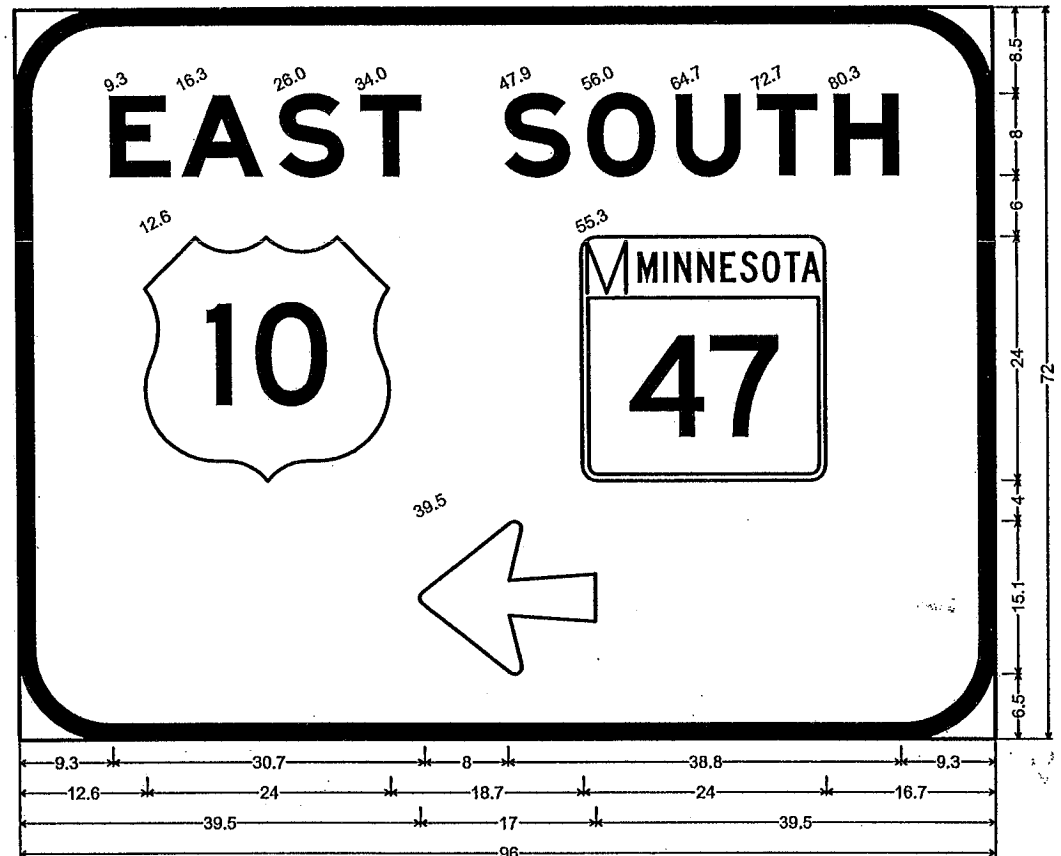
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
TYPE "D" SIGN DETAILS

CITY PROJECT 98-20

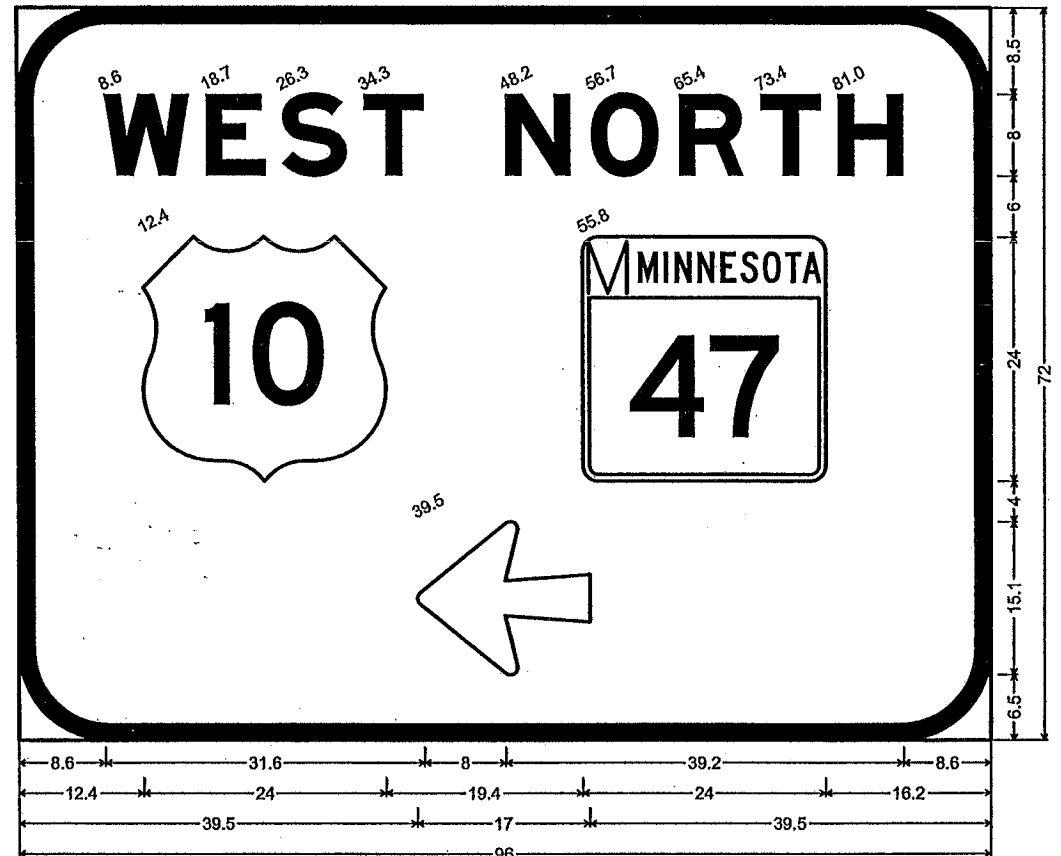
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 814 - 19	346
S.A.P. 02 - 818 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

DRAWINGS
PLOT DATE: Apr 30, 2004 11:47am DISK FILE NAME: (15.06) R:\33889\33889028\SIGNAL\Main\As-Built\Design5.dwg



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
CHKD. BY: RJG	DWG. NAME: DSIGN55
DATE: DECEMBER 21, 1999	



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.
Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

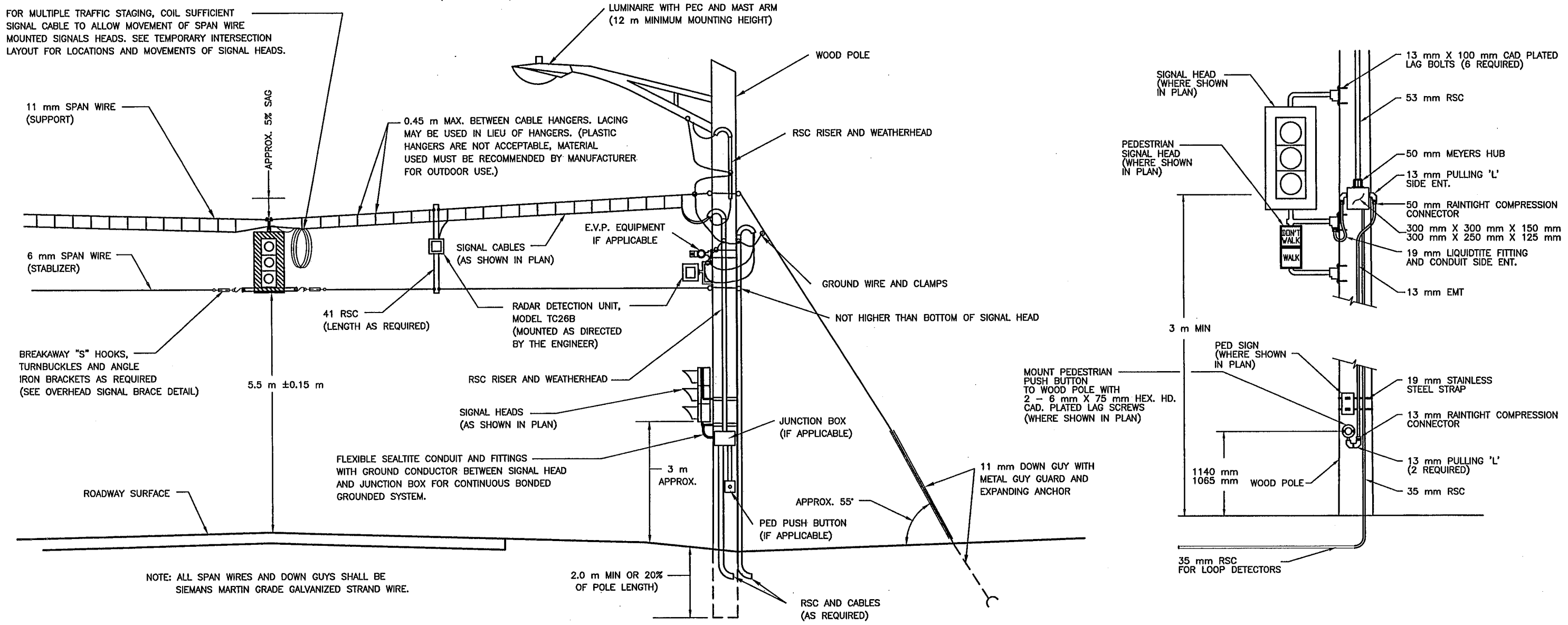
MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
TYPE "D" SIGN DETAILS
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	347
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 138 - 02	
S.A.P. 114 - 127 - 02	539

TYPICAL WOOD POLE AND SPAN WIRE MOUNTED TRAFFIC SIGNALS

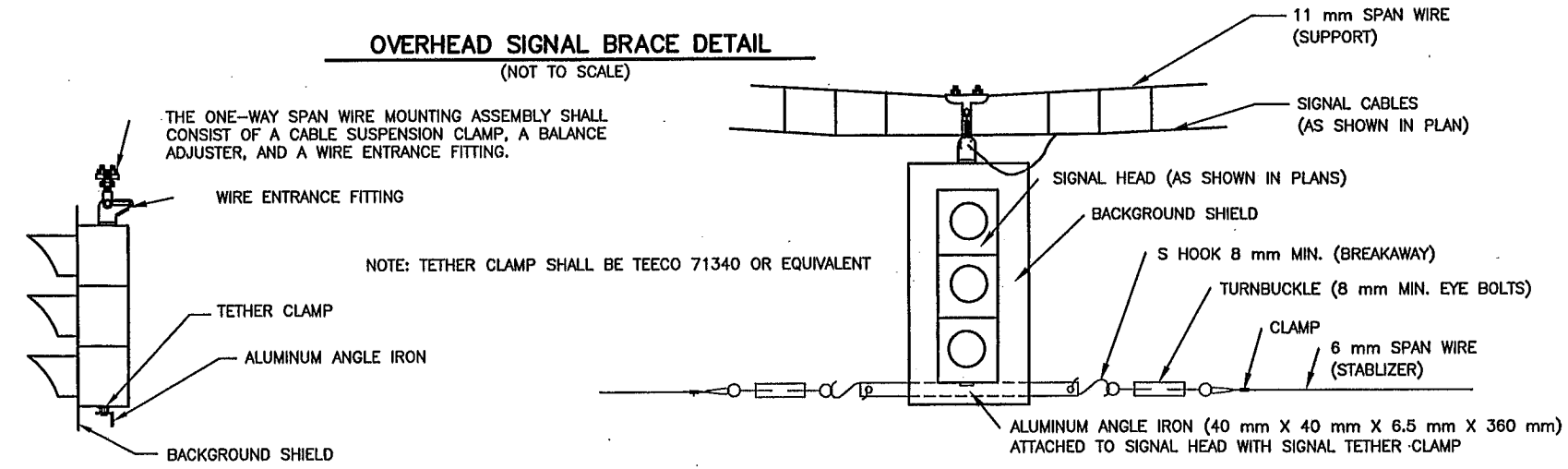
(NOT TO SCALE)

FOR MULTIPLE TRAFFIC STAGING, COIL SUFFICIENT SIGNAL CABLE TO ALLOW MOVEMENT OF SPAN WIRE MOUNTED SIGNALS HEADS. SEE TEMPORARY INTERSECTION LAYOUT FOR LOCATIONS AND MOVEMENTS OF SIGNAL HEADS.



OVERHEAD SIGNAL BRACE DETAIL

(NOT TO SCALE)



NOTES:

1) 7.5 m CLEARANCE IS REQUIRED ON ALL MOVING ROUTES.

PLOT DATE: Apr 22 11:48am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\c.dwg

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



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 J. Carter
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

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

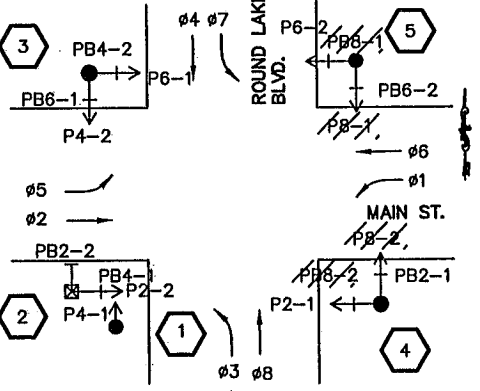
EXTEND INTO HH 9:
 78 mm RSC
 1-12/C#12
 1-3/C#12

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.

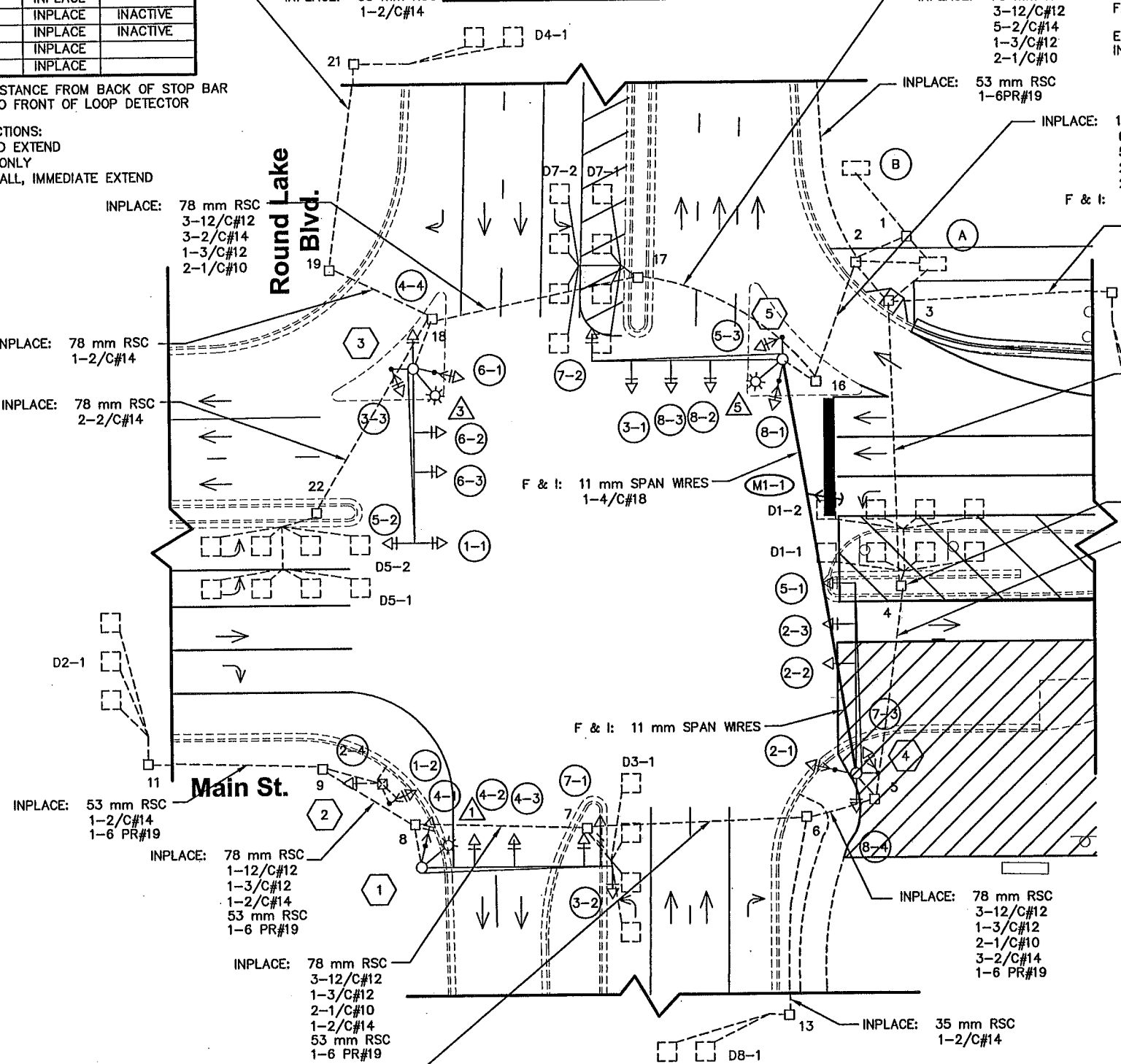
CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



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

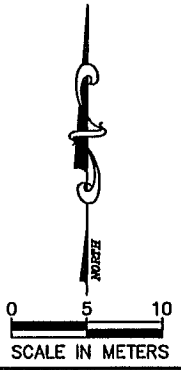


GENERAL LAYOUT (PHASE 3, STAGE 1)

- 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°
 "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: "DO NOT CROSS" SIGN (R9-3A)
 FACING POLE NO. 4

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, 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	●	●	●	←	←	←

- NOTES:
- SEE SPECIAL PROVISIONS FOR MN/DOT AND ANOKA COUNTY FURNISHED MATERIALS.
 - THE CONTRACTOR SHALL MODIFY EXISTING TRAFFIC SIGNAL SYSTEM TO ACCOMMODATE 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.
 - PHASE 8 PEDESTRIAN INDICATIONS, AND PHASE 8 PUSHBUTTONS SHALL BE COVERED.
 - SPAN WRES SHALL BE ATTACHED TO MAST ARMS BELOW LUMINAIRE EXTENSION ARMS.



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
CHKD. BY: RJG	DWG. NAME: RLBTEMP	DATE: DECEMBER 21, 1999

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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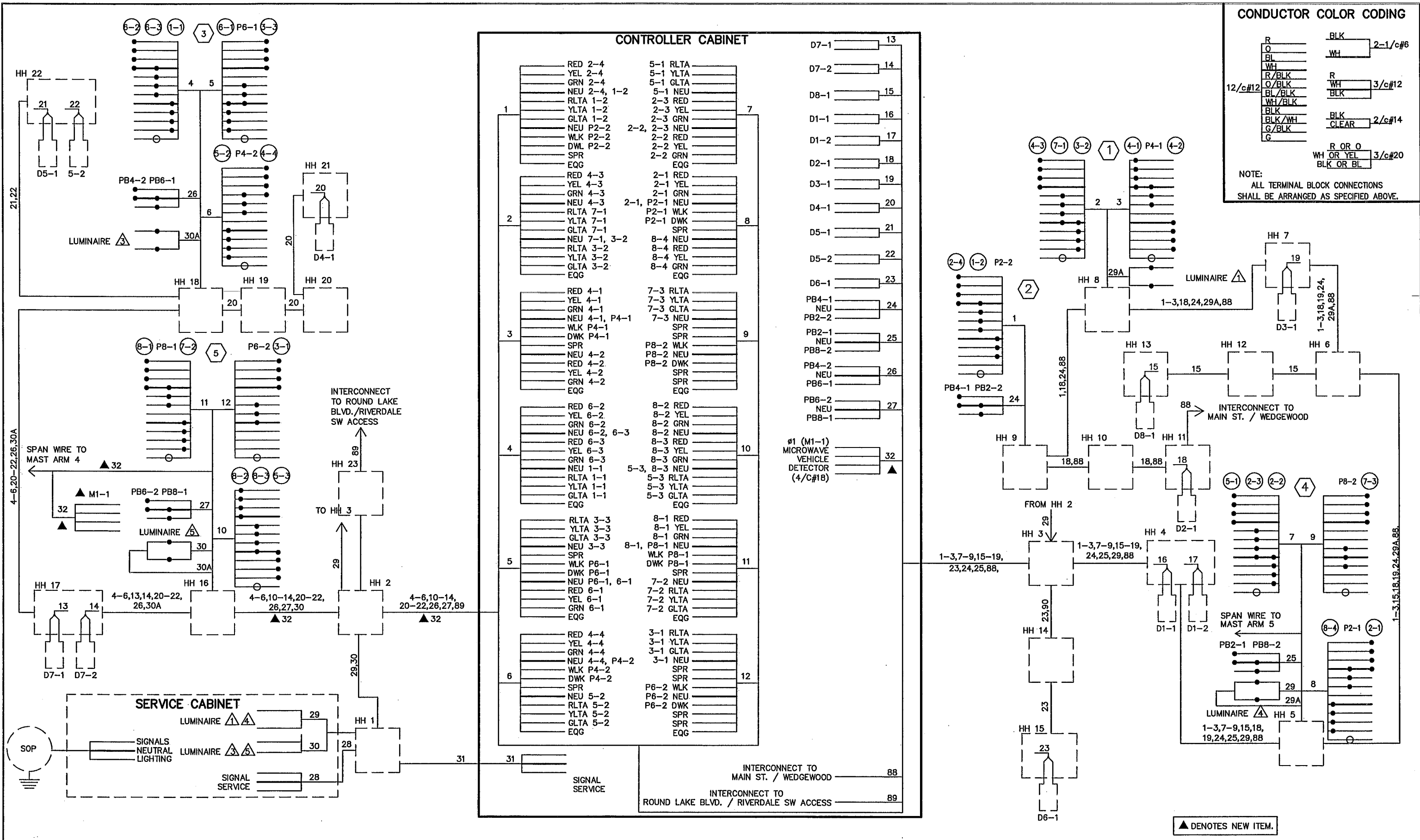
[Signature]
 DATE: 12/21/99 MINN. REG. NO. 26781

**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)	SHEET NO.
S.A.P. 02 - 614 - 19	349
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PLOT DATE: Apr 22, 2004 11:47am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\Tempip.dwg



CONDUCTOR COLOR CODING

R	BLK	
O	WH	2-1/c#6
BL		
WH	R	
R/BLK	WH	3/c#12
O/BLK	BLK	
BL/BLK	BLK	
WH/BLK	BLK	
BLK	BLK	2/c#14
BLK/WH	CLEAR	
G/BLK		
G		
R OR O	WH OR YEL	3/c#20
	BLK OR BL	

NOTE:
ALL TERMINAL BLOCK CONNECTIONS
SHALL BE ARRANGED AS SPECIFIED ABOVE.

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
CHKD. BY: RJG	DWG. NAME: RLBTEMP
DATE: DECEMBER 21, 1999	

BRW
A DAMES & MOORE GROUP COMPANY

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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

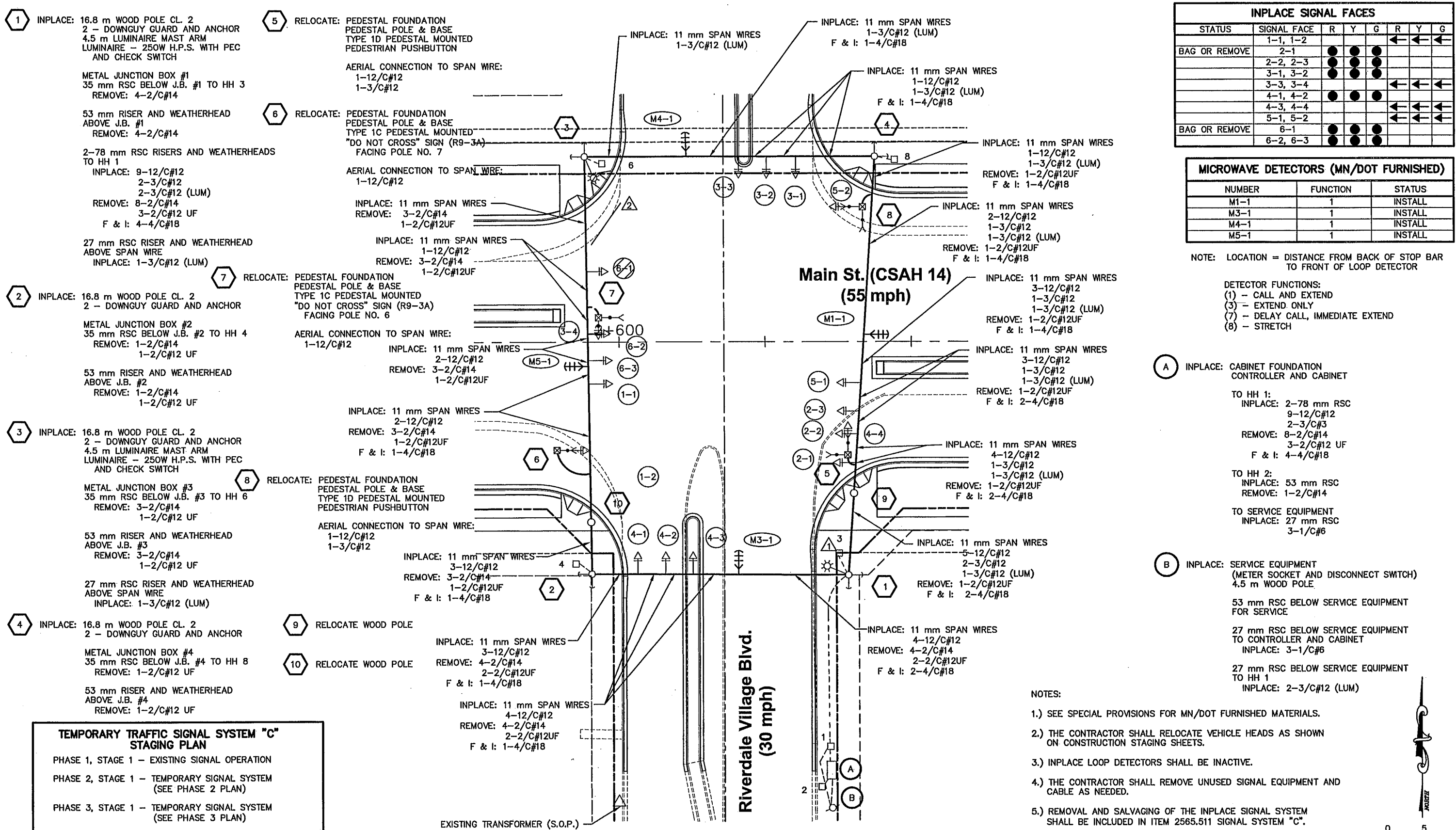
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.

Paul A. Carter
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)	SHEET NO.
S.A.P. 02 - 614 - 19	350
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539



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

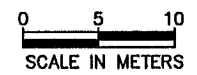
NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

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)

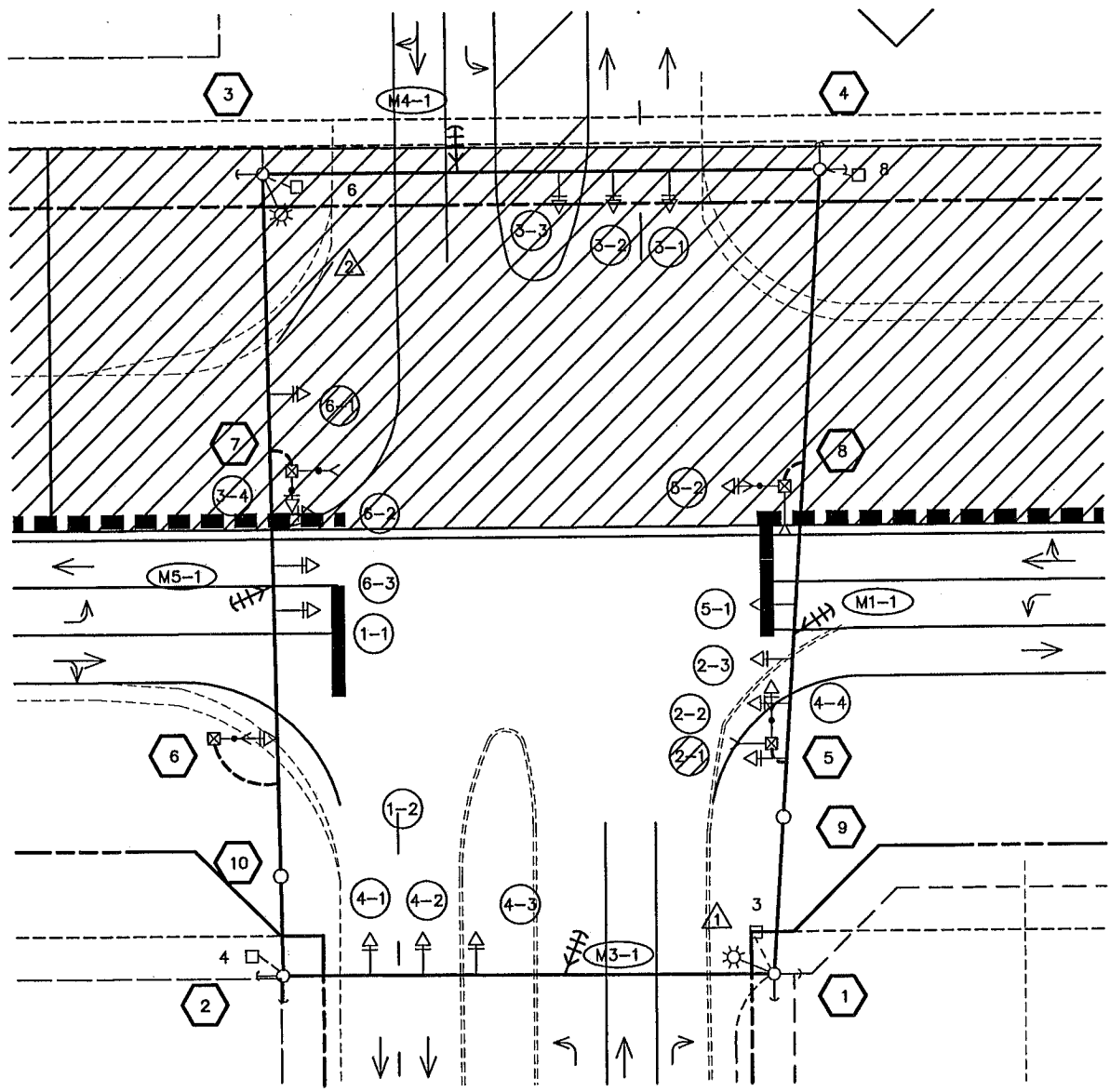
TEMPORARY TRAFFIC SIGNAL SYSTEM "C" STAGING PLAN	
PHASE 1, STAGE 1 - EXISTING SIGNAL OPERATION	
PHASE 2, STAGE 1 - TEMPORARY SIGNAL SYSTEM (SEE PHASE 2 PLAN)	
PHASE 3, STAGE 1 - TEMPORARY SIGNAL SYSTEM (SEE PHASE 3 PLAN)	
PHASE 3, STAGE 1 - TEMPORARY SIGNAL SYSTEM (SUBSTAGE A) (SEE PHASE 3, SUBSTAGE A PLAN)	
PHASE 4, STAGES 1 & 2 - PERMANENT SIGNAL OPERATION	

- NOTES:
- SEE SPECIAL PROVISIONS FOR MN/DOT FURNISHED MATERIALS.
 - THE CONTRACTOR SHALL RELOCATE VEHICLE HEADS AS SHOWN ON CONSTRUCTION STAGING SHEETS.
 - INPLACE LOOP DETECTORS SHALL BE INACTIVE.
 - THE CONTRACTOR SHALL REMOVE UNUSED SIGNAL EQUIPMENT AND CABLE AS NEEDED.
 - REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "C".
 - THE CONTRACTOR SHALL MODIFY FIELD CABINET WIRING TO ACCOMMODATE SPLIT PHASING ON RIVERDALE VILLAGE BLVD.
 - 6 mm STABILIZER WIRE SHALL BE INSTALLED BETWEEN EACH WOOD POLE.

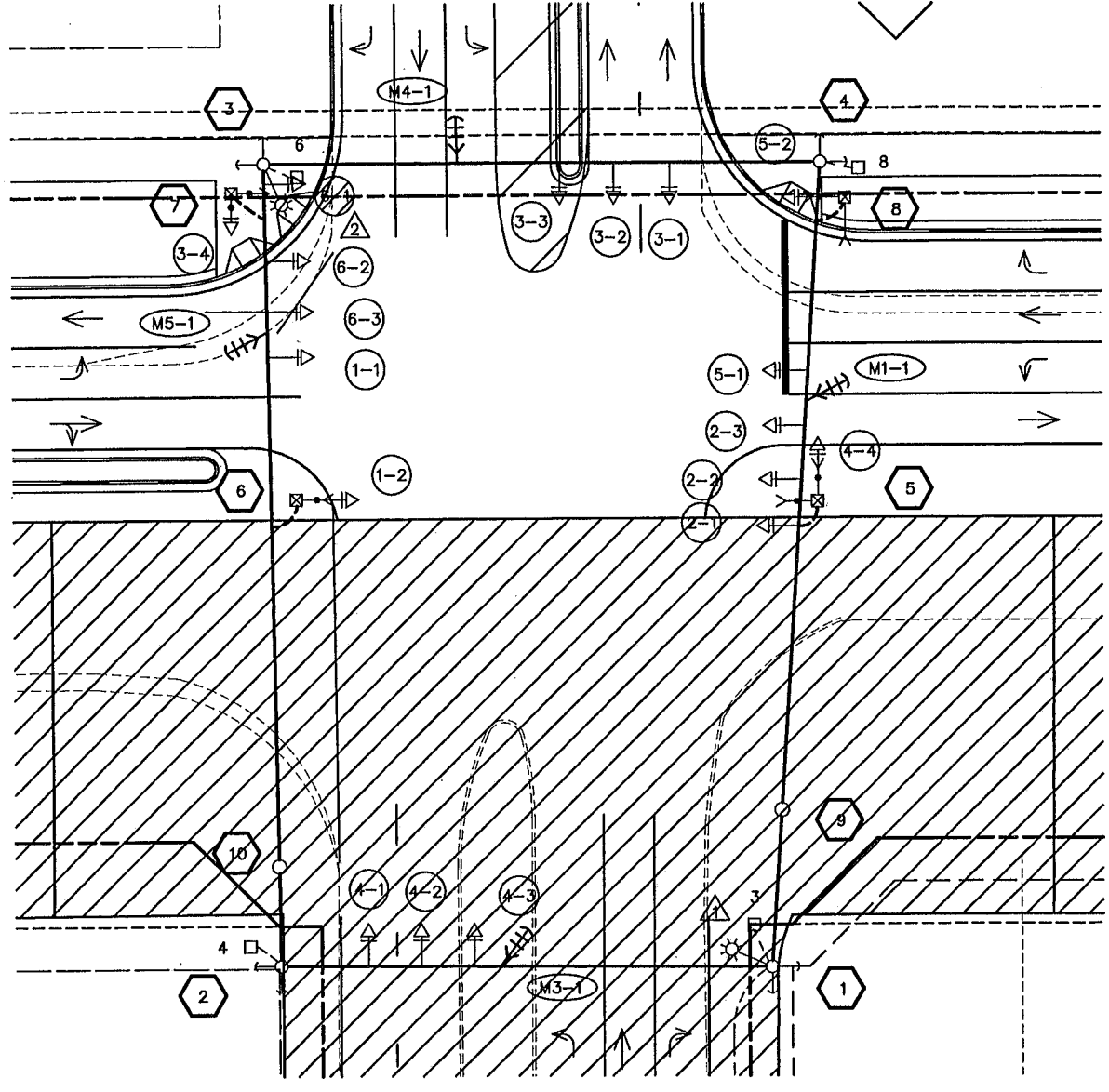


GENERAL LAYOUT

<table border="1"> <thead> <tr> <th>REV. NO.</th> <th>BY</th> <th>DATE</th> <th>REVISIONS DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV. NO.	BY	DATE	REVISIONS DESCRIPTION					DESIGN FILE: 33889028 DRAWN BY: JAS DESIGN BY: JRN CHKD. BY: RJG DWG. NAME: 2-TEMP1 DATE: DECEMBER 21, 1999	<p>ALL QUANTITIES AND DIMENSIONS ON THIS PLAN ARE IN METRIC UNITS.</p>	<p>BRW A DAMES & MOORE GROUP COMPANY</p>	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	<p>MAIN STREET/T.H. 242 RECONSTRUCTION TEMPORARY TRAFFIC SIGNAL SYSTEM "C" GENERAL LAYOUT</p>	<p>S.P. 0212-40 (T.H.242=242) S.A.P. 02 - 614 - 19 S.A.P. 02 - 618 - 24 S.P. 114 - 010 - 11 S.A.P. 114 - 020 - 19 S.A.P. 114 - 136 - 02 S.A.P. 114 - 127 - 02</p>	SHEET NO. <p style="font-size: 24pt; font-weight: bold;">351</p> <p style="font-size: 24pt; font-weight: bold;">539</p>
REV. NO.	BY	DATE	REVISIONS DESCRIPTION												



PHASE 2 LAYOUT

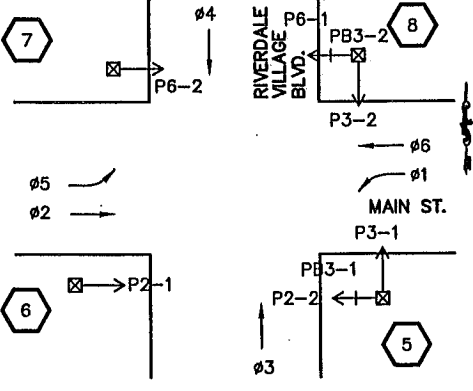


PHASE 3 LAYOUT

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.

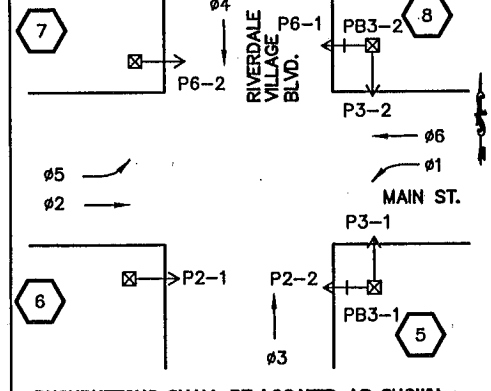
SIGNAL SYSTEM OPERATION
 - THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
 - NORMAL OPERATION IS 6 PHASE WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.
 - PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



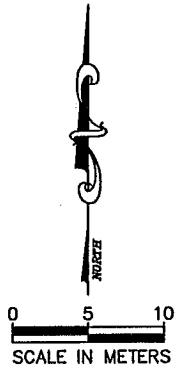
PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL FACES
ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
BAG OR REMOVE	1-1, 1-2	●	●	●	←	←	←
	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	●	●	●			

SIGNAL FACES
ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
BAG OR REMOVE	1-1, 1-2	●	●	●	←	←	←
	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	●	●	●			



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
 DRAWN BY: JAS
 DESIGN BY: JRN
 CHKD. BY: RJG
 DWG. NAME: RVBTEMP
 DATE: DECEMBER 21, 1999



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 DATE: 12/21/99 MINN. REG. NO. 26781

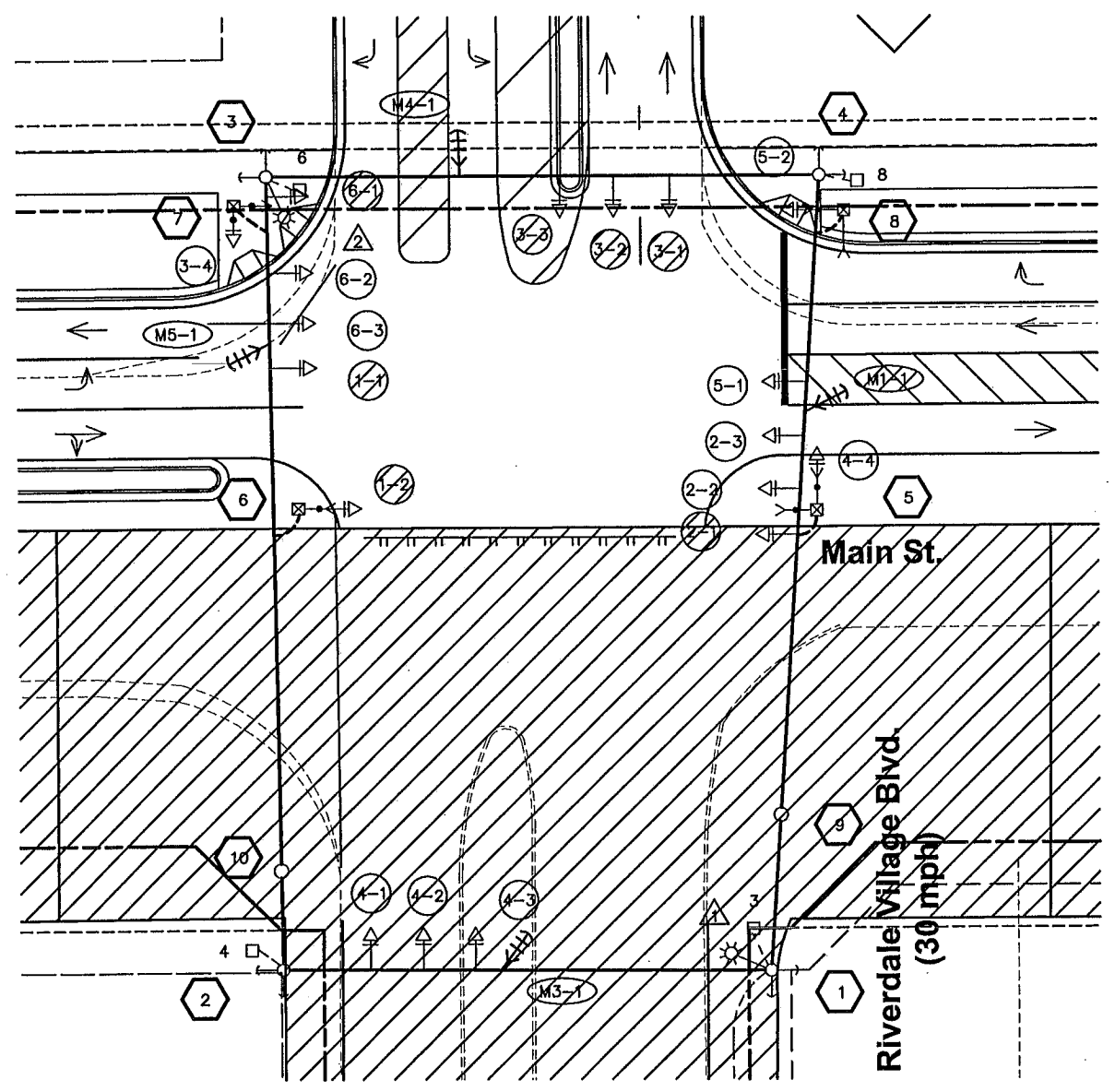
MAIN STREET/T.H. 242 RECONSTRUCTION TEMPORARY TRAFFIC SIGNAL SYSTEM "C" MAIN ST. (CSAH 14) / RIVERDALE VILLAGE BLVD. SIGNAL STAGING LAYOUT
 CITY PROJECT 98-20

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

PRD
30X
LNW
31
3S1
27
IP
31

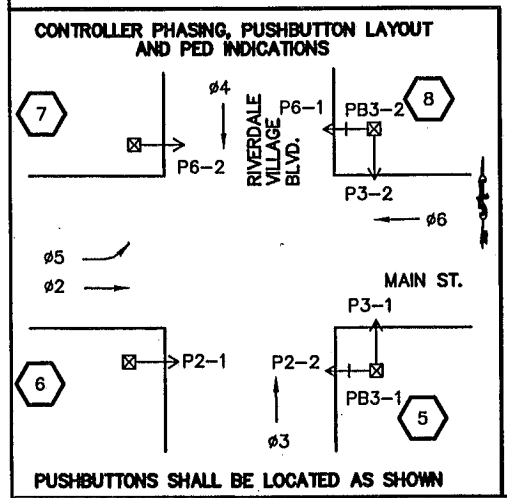
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**PHASE 3, STAGE 1
SUBSTAGE A
LAYOUT**

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

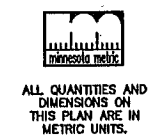
ALL INDICATIONS SHALL BE 300 mm

STATUS	SIGNAL FACE	R	Y	G	R	Y	G
BAG	1-1, 1-2				←	←	←
BAG OR REMOVE	2-1	●	●	●			
BAG	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	●	●	●			



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
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 CHKD. BY: RJG
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[Signature]
 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**

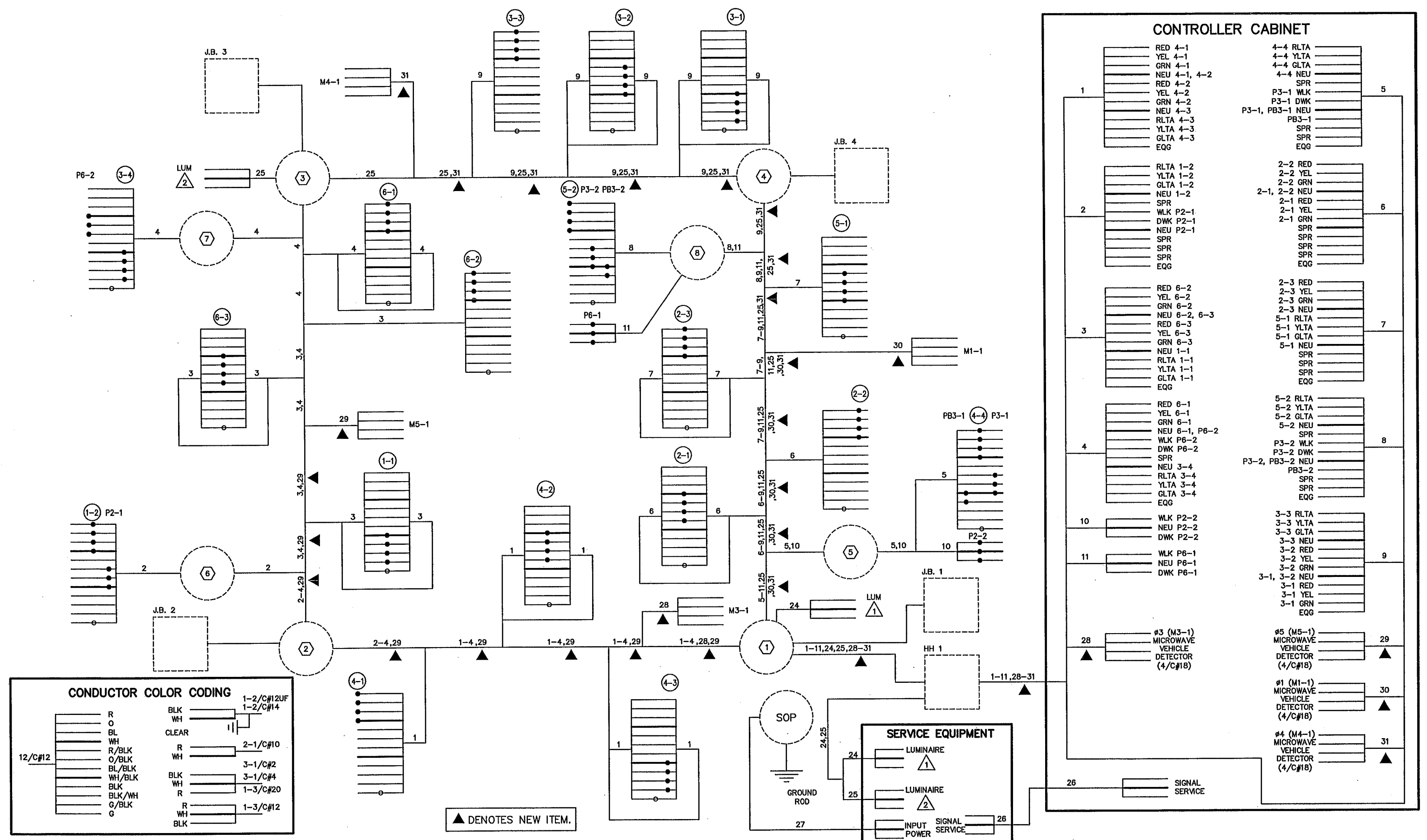
CITY PROJECT 98-20

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 2, 1999 11:44am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Temp3.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028	DESIGN BY: JRN
DRAWN BY: JAS	DWG. NAME: 2-TEMP3
CHKD. BY: RJC	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. 28781

**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.A.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

P3S2
P32
BOX
PLNW
P31
P7
P1
P1S,
IP2-1
P2S1
PSIG

PLOT DATE: Apr 22, 2004 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\ip.dwg

- 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)

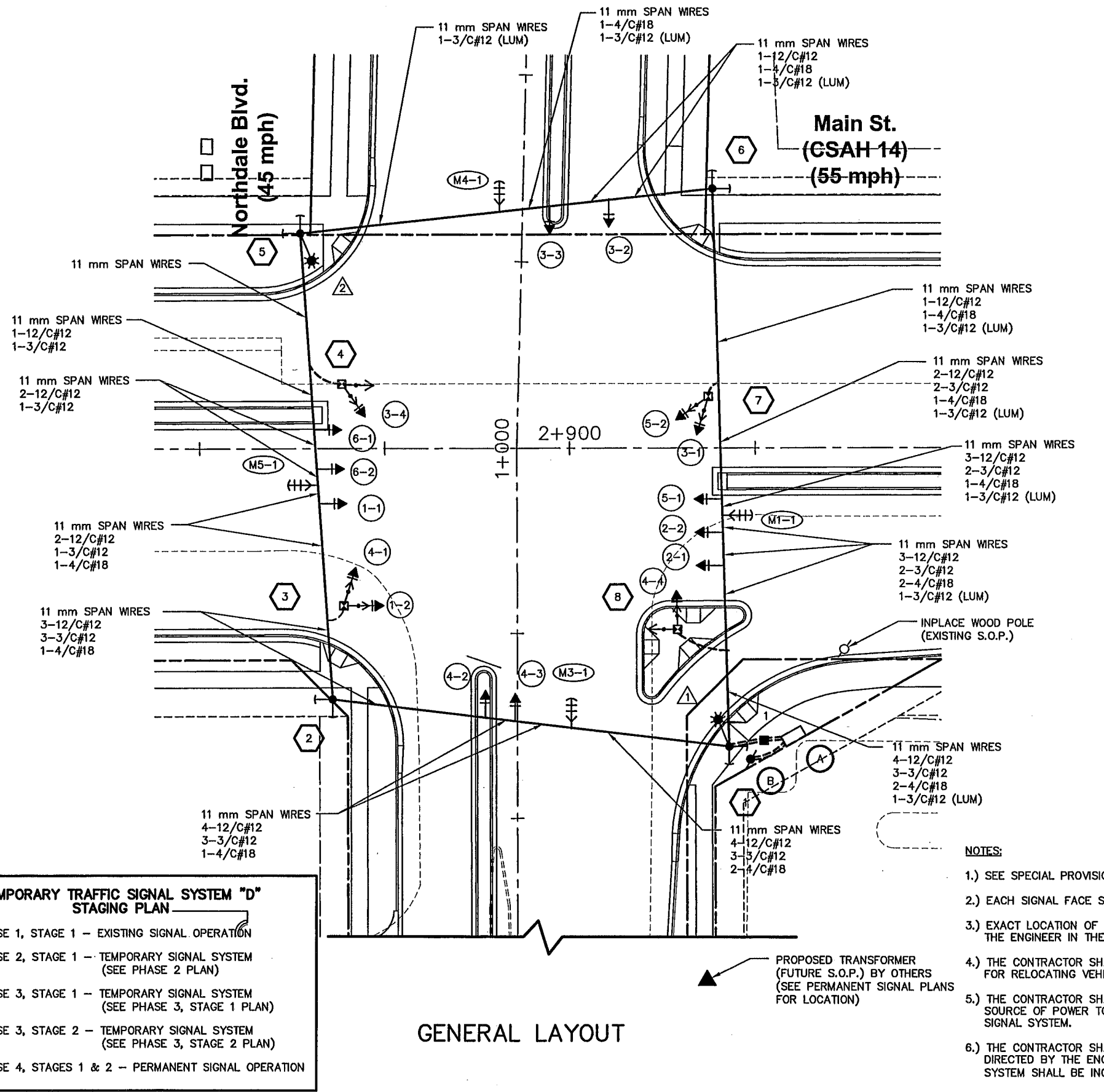
AERIAL CONNECTION TO SPAN WIRE
1-12/C#12
2-3/C#12
- 4 TEMPORARY PEDESTAL FOUNDATION
PEDESTAL POLE AND BASE
TYPE 1D PEDESTAL MOUNTED
PEDESTRIAN PUSHBUTTON
"DO NOT CROSS" SIGN (R9-3A)
FACING POLE NO. 3 (FOR PHASE 2)

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



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

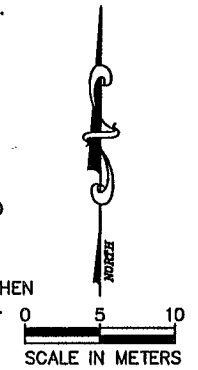
DETECTOR FUNCTIONS:
 (1) - CALL AND EXTEND
 (3) - EXTEND ONLY
 (7) - DELAY CALL, IMMEDIATE EXTEND
 (8) - STRETCH

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:
- SEE SPECIAL PROVISIONS FOR MN/DOT & ANOKA COUNTY FURNISHED MATERIALS.
 - EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - EXACT LOCATION OF POLES AND CABINET SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 - THE CONTRACTOR SHALL PROVIDE SUFFICIENT SLACK IN CABLE TO ALLOW FOR RELOCATING VEHICLE HEADS AS SHOWN ON SIGNAL STAGING SHEET.
 - THE CONTRACTOR SHALL COORDINATE THE USE OF THE EXISTING AND PROPOSED SOURCE OF POWER TO ENSURE A FULLY OPERATIONAL TEMPORARY TRAFFIC SIGNAL SYSTEM.
 - 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".



GENERAL LAYOUT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE:
33889028

DRAWN BY: JAS
DESIGN BY: JRN

CHKD. BY: RJG
DWG. NAME: NDTEMP

DATE:
DECEMBER 21, 1999



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James J. Carter

DATE: 12/21/99 MINN. REG. NO. 26781

**MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "D"**
MAIN ST. (CSAH 14) / NORTHDAL BLVD.
GENERAL LAYOUT

CITY PROJECT 98-20

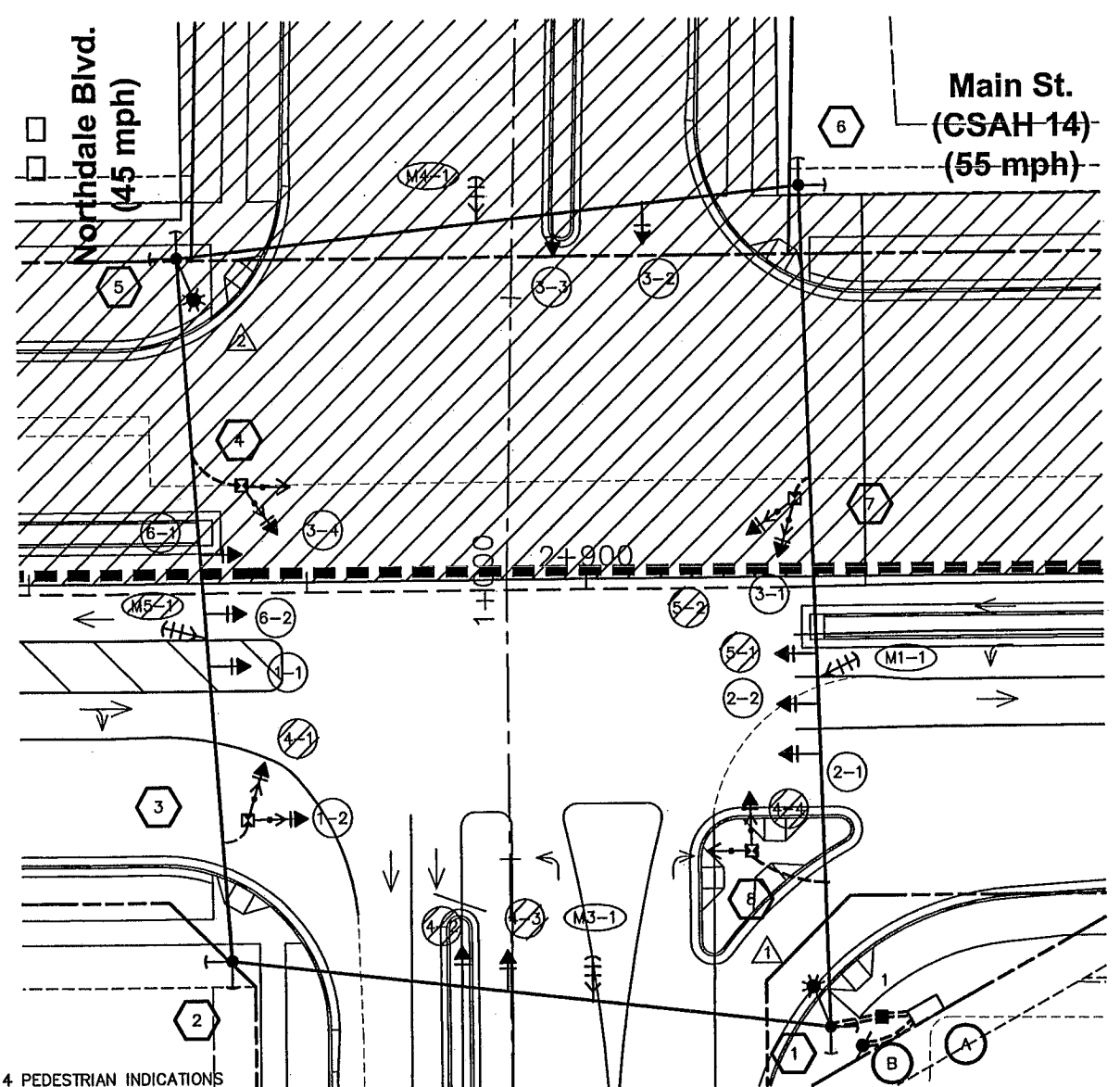
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO.
355

539

P3S2
P32
BOX
PLNW
P31
P7
P.
P1S,
1P2-1
P2S1
PSIG

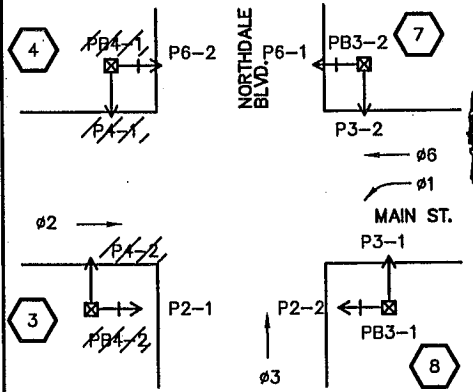
PLOT DATE: Apr 22, 2004 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\Tempstg\Tempstg.dwg



PHASE 2 LAYOUT

- 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.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS

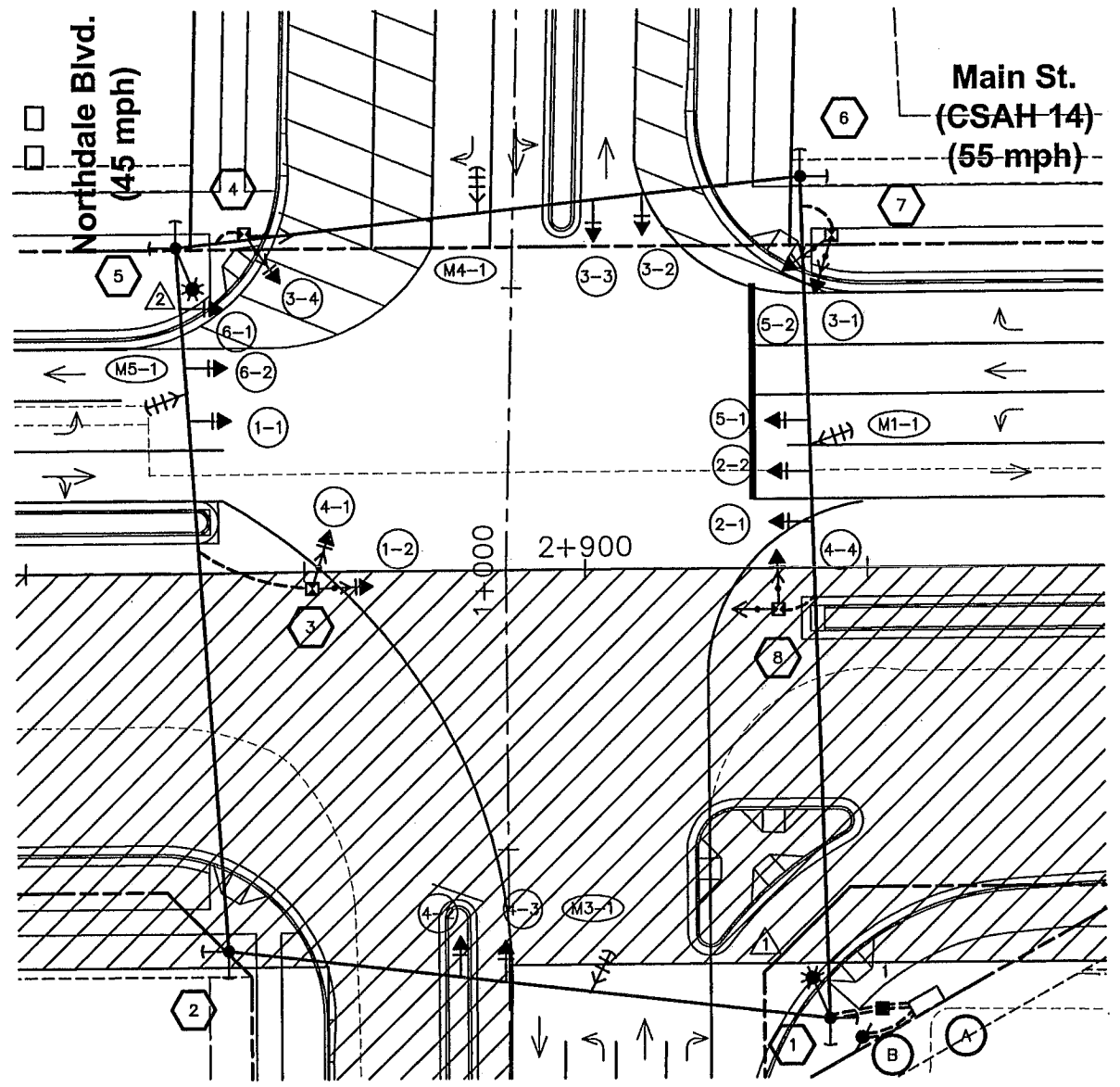
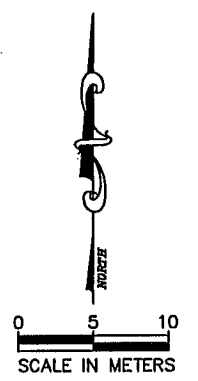


PUSHBUTTONS SHALL BE LOCATED AS SHOWN

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	●	●	●			

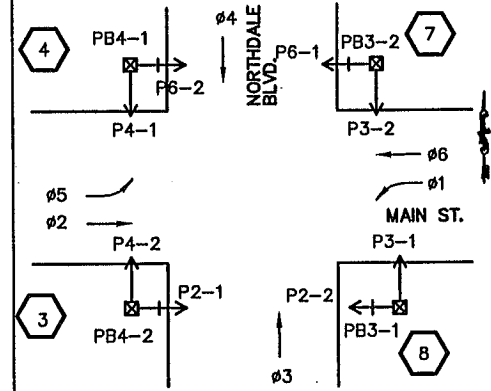


PHASE 3, STAGE 1 LAYOUT

SIGNAL SYSTEM OPERATION

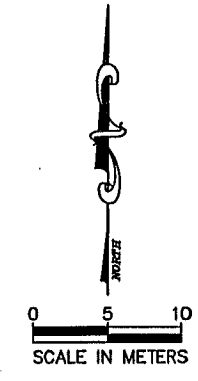
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE WITH PHASES 1 & 5 BEING PROTECTED LEFT TURN PHASES IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



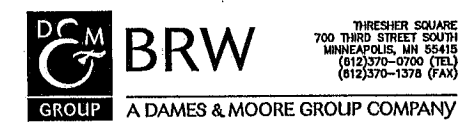
PUSHBUTTONS SHALL BE LOCATED AS SHOWN

SIGNAL FACES							
ALL INDICATIONS SHALL BE 300 mm							
STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1-1, 1-2				←	←	←
	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	●	●	●			



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
 DRAWN BY: JAS
 DESIGN BY: JRN
 CHKED. BY: RJG
 DWG. NAME: NDEMP
 DATE: DECEMBER 21, 1999



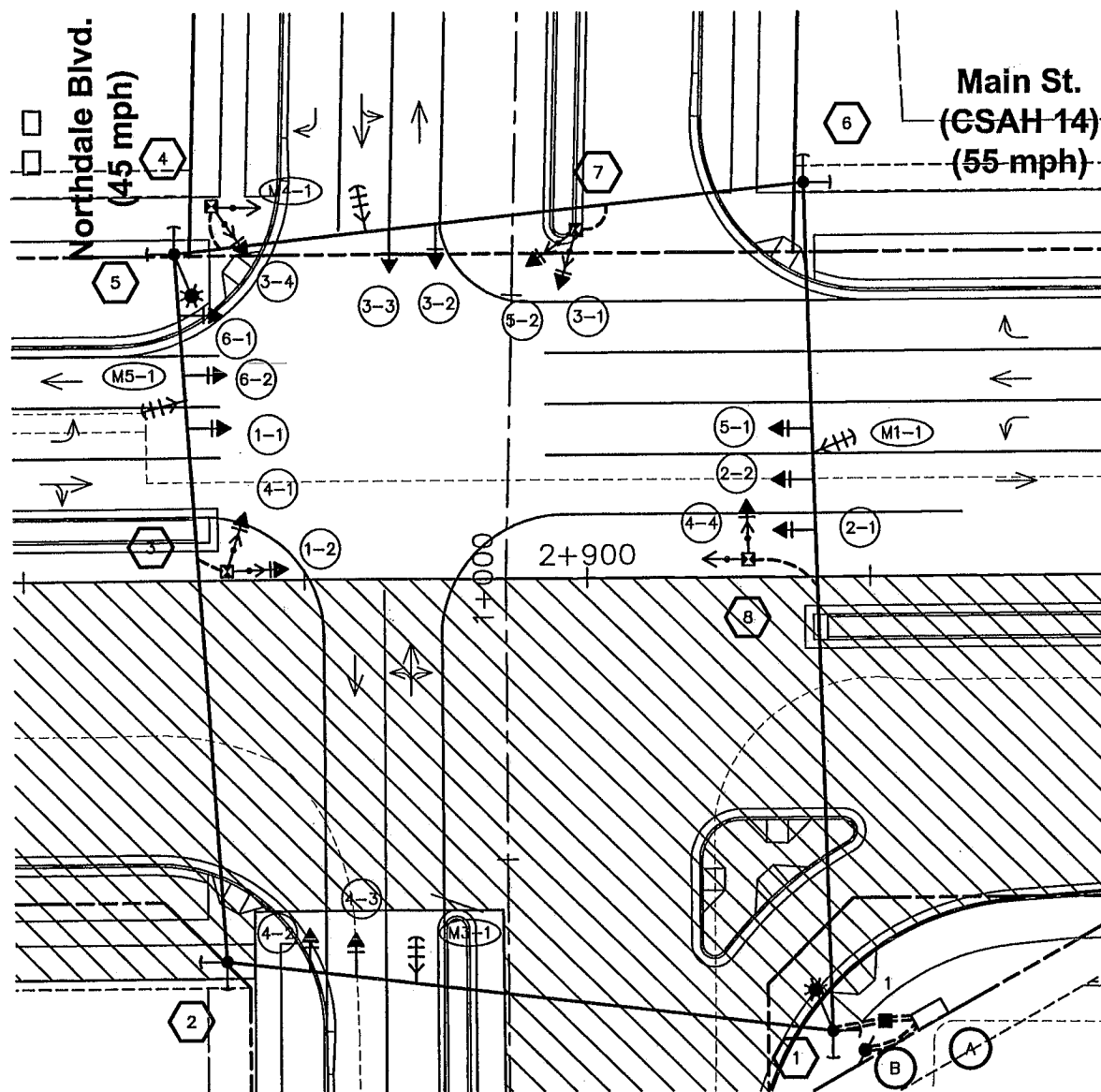
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MAIN STREET/T.H. 242 RECONSTRUCTION
 TEMPORARY TRAFFIC SIGNAL SYSTEM "D"
 MAIN ST. (CSAH 14) / NORTHDAL BLVD.
 SIGNAL STAGING LAYOUT
 CITY PROJECT 98-20

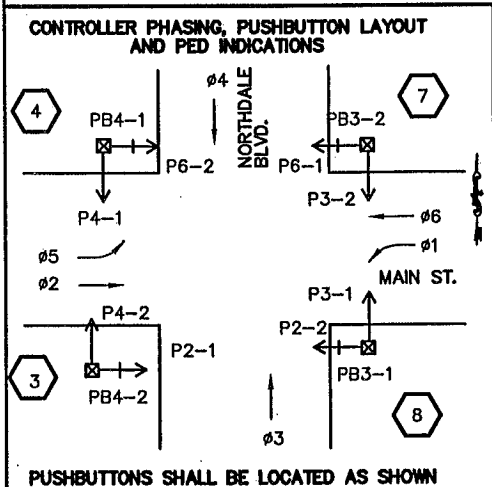
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 S.A.P. 114 - 127 - 02

SHEET NO. 356
 539

3S2
32
30X
LNW
31
3
2
1S1
1P2-1
2S1
SIG



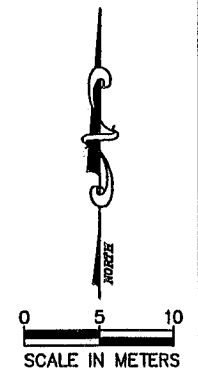
PHASE 3, STAGE 2 LAYOUT



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.

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	●	●	●			



PLOT DATE: Apr 22, 1999 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\TempSig\p.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028	
DRAWN BY: JAS	DESIGN BY: JRN
CHKD. BY: RJG	DWG. NAME: NDTEMP
DATE: DECEMBER 21, 1999	



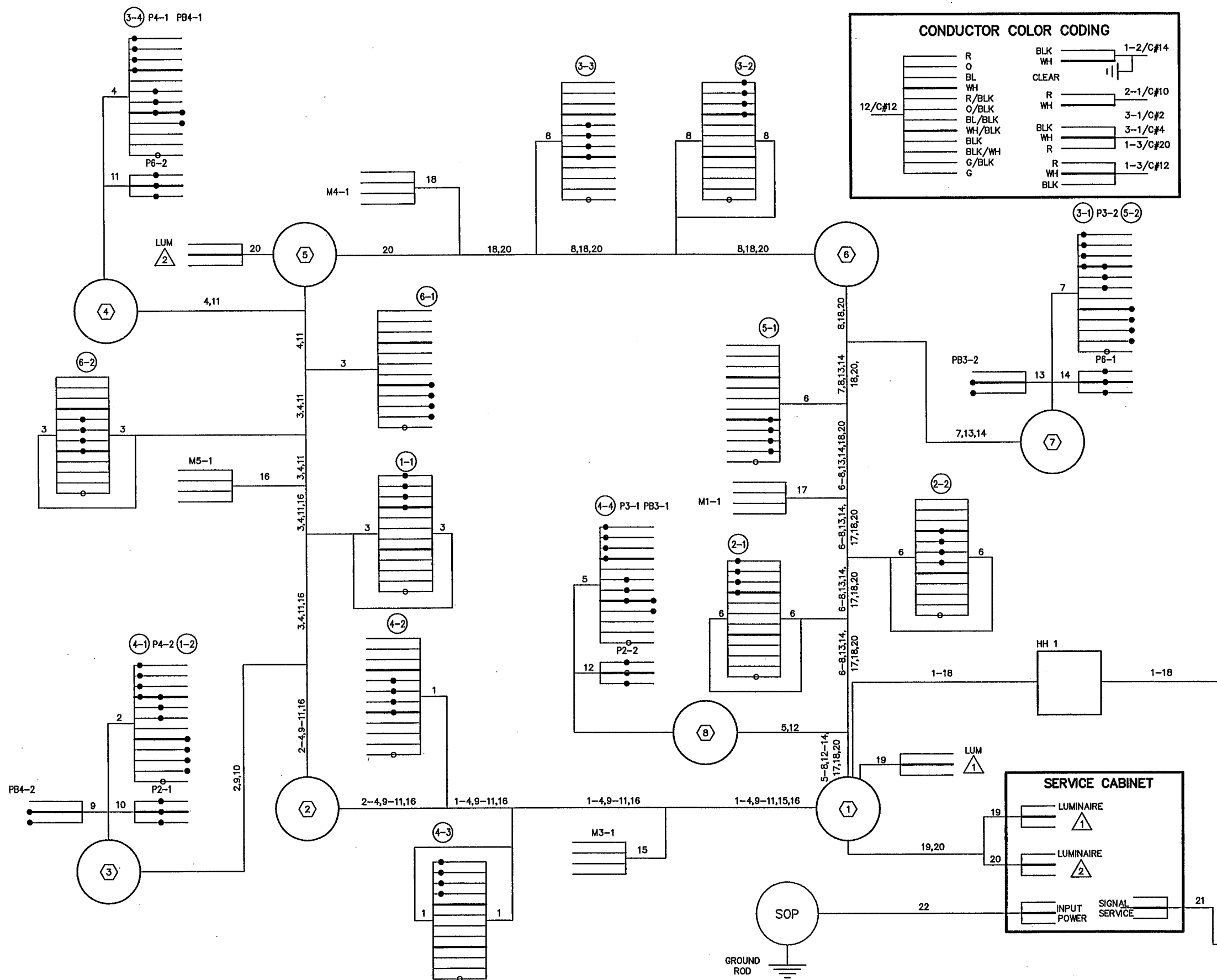
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin A. ...
DATE: 12/21/99 MINN. REG. NO. 28781

MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "D"
MAIN ST. (CSAH 14) / NORTHDAL 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

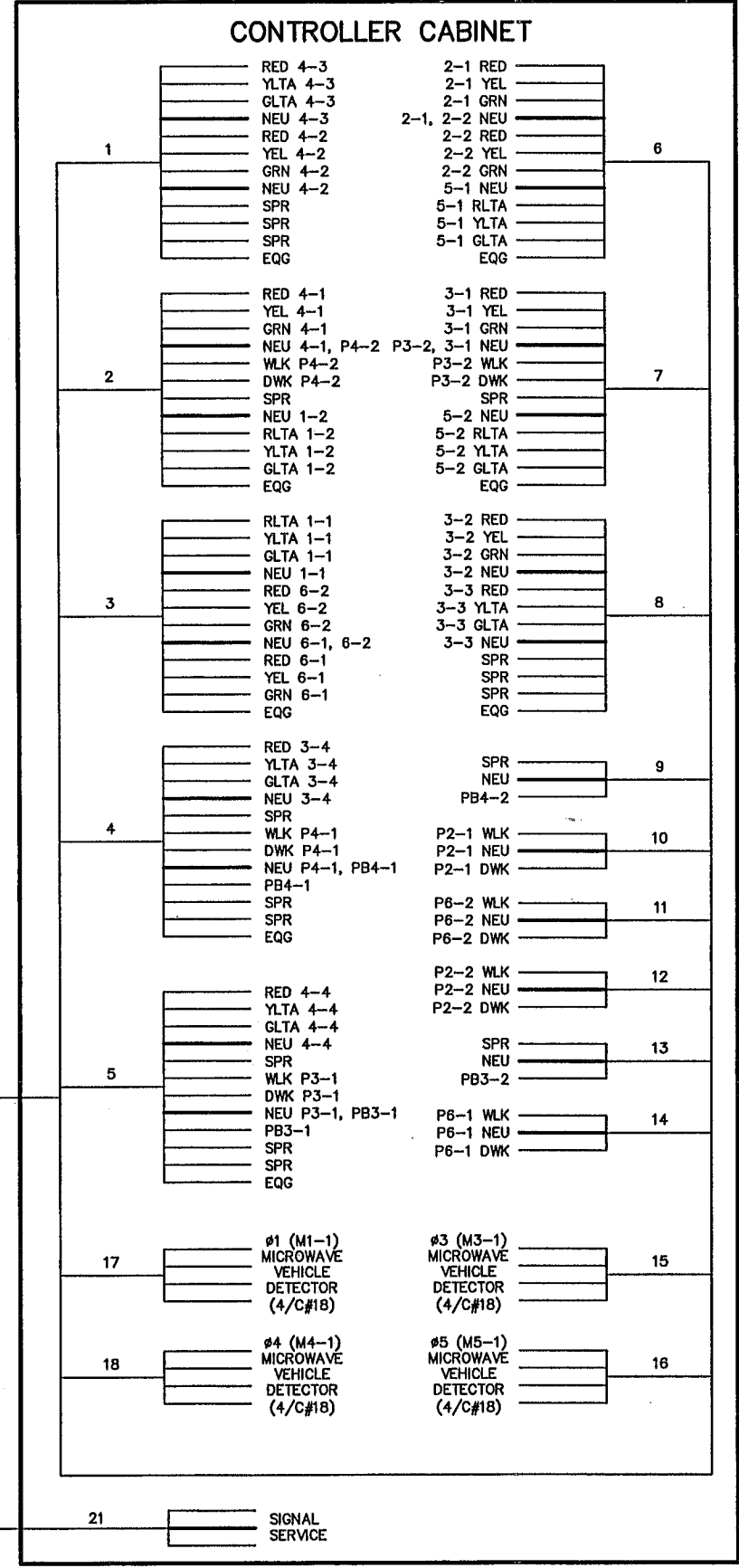
SHEET NO.
357
539

PLOT DATE: Apr 2, 1999 11:44am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\temp3.dwg



CONDUCTOR COLOR CODING

12/C#12	R	BLK	1-2/C#14
	O	WH	
	BL	CLEAR	
	WH	R	2-1/C#10
	R/BLK	WH	
	O/BLK	BLK	3-1/C#2
	BL/BLK	WH	3-1/C#4
	WH/BLK	R	1-3/C#20
	BLK	R	1-3/C#12
	BLK/WH	WH	
	G/BLK	BLK	
	G		



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028

DRAWN BY: JAS	DESIGN BY: JRN
CHKD. BY: RJG	DWG. NAME: 3-TEMP3
DATE: DECEMBER 21, 1999	

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

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin A. [Signature]

DATE: 12/21/99 MINN. REG. NO. 26781

**MAIN STREET/T.H. 242 RECONSTRUCTION
TEMPORARY TRAFFIC SIGNAL SYSTEM "D"**
MAIN ST. (CSAH 14) / NORTHDAL 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

'CON42
'CON41
'CON31
'CON21
IP45"
IP
IP33
P21
IP2S1
IPSG
E-PLN
MHETO
-ESUM
E-ALI

PLOT DATE: Apr 22, 2004 11:49am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\TempSig\w-temp.dwg

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

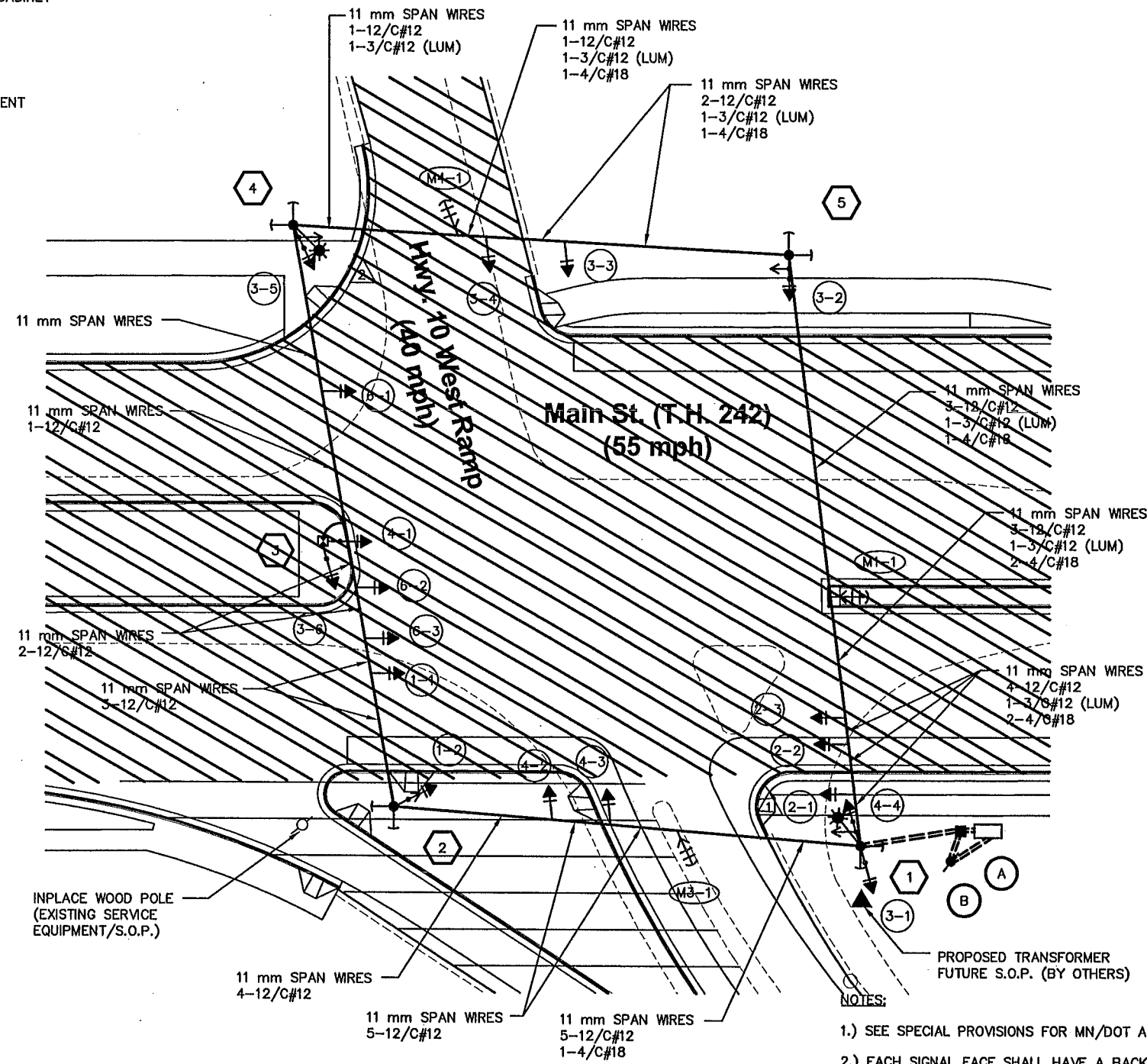
EXTEND INTO SERVICE EQUIPMENT
27 mm RSC
3-1/C#6

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

- 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".

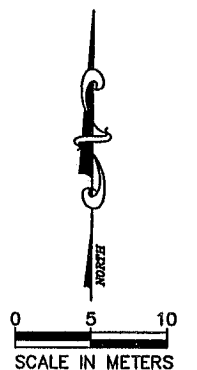
SIGNAL FACES						
ALL INDICATIONS SHALL BE 300 mm						
SIGNAL FACE	R	Y	G	R	Y	G
1-1, 1-2				←	←	←
2-1, 2-2, 2-3	●	●	●			
3-1, 3-2, 3-3	●	●	●			
3-4, 3-5, 3-6	●	●	●	←	←	
4-1, 4-2	●	●	●			
4-3, 4-4	●	●	●	←	←	
6-1, 6-2, 6-3	●	●	●			

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)



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028	
DRAWN BY: JAS	DESIGN BY: JRN
CHKD. BY: RJG	DWG. NAME: WRAMPTEMP
DATE: DECEMBER 21, 1999	

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A DAMES & MOORE GROUP COMPANY

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
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Kenneth A. ...
DATE: 12/21/99 MINN. REG. NO. 26781

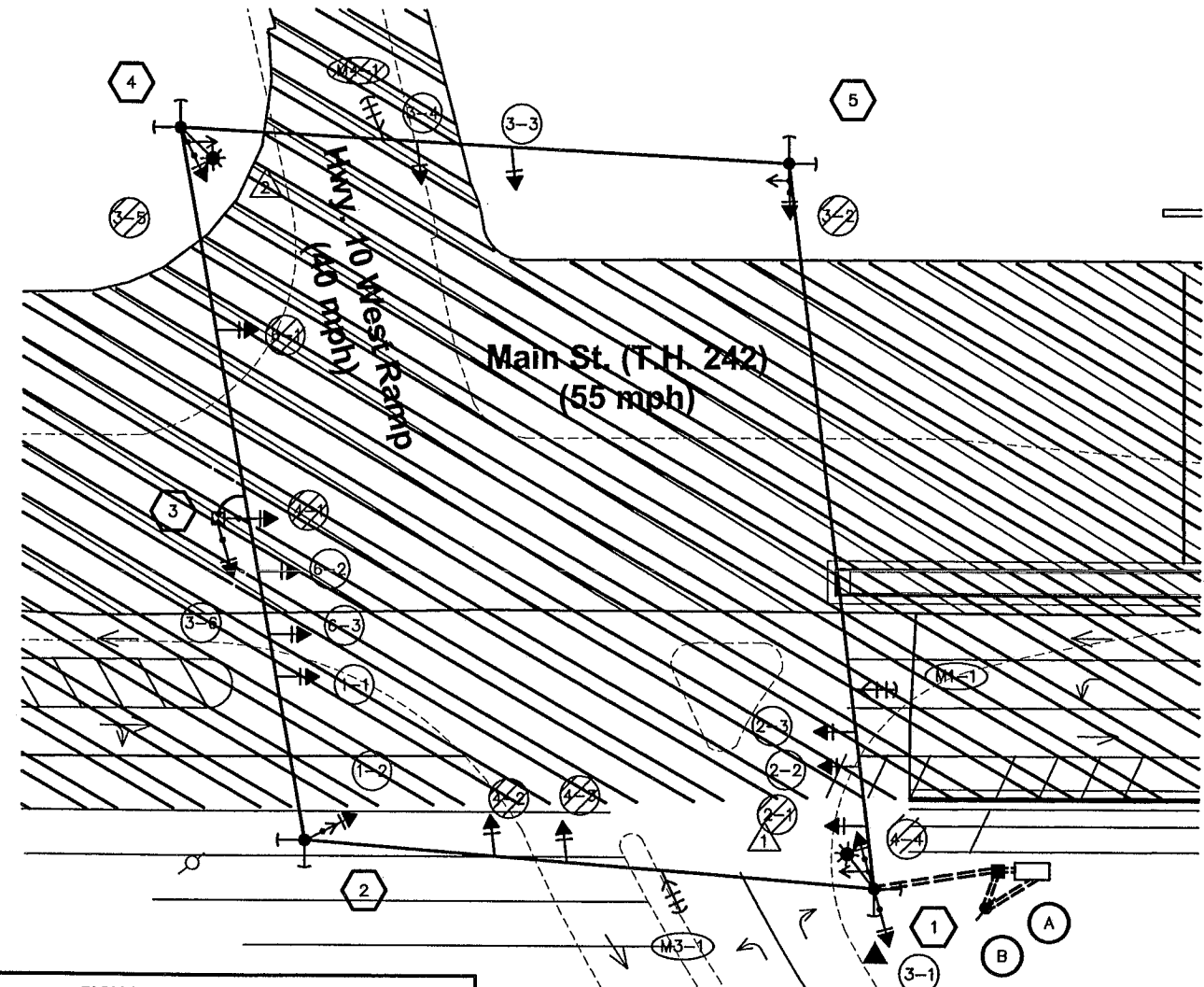
MAIN STREET/T.H. 242 RECONSTRUCTION TEMPORARY TRAFFIC SIGNAL SYSTEM "F" GENERAL LAYOUT

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	359
S.A.P. 02 - 618 - 24	
S.A.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

'CON42
'CON41
'CON31
'CON21
IP4S?
IP?
P.
IP3S,
P21
IP2S1
PSIG
E-PLN
MHETO
-ESUM
E-ALI

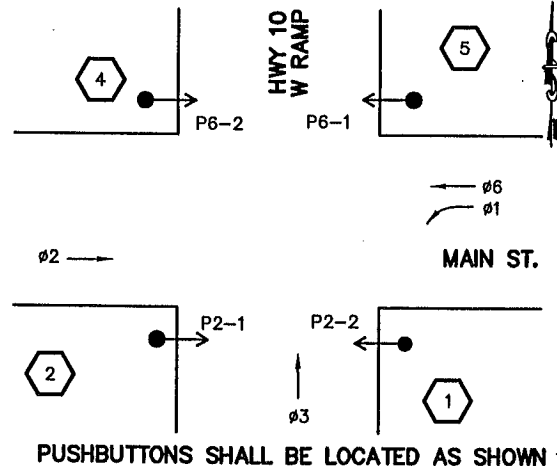
PLOT DATE: Apr 22, 1999 11:49am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\TempSig\w...p.temp.dwg



PHASE 2 LAYOUT

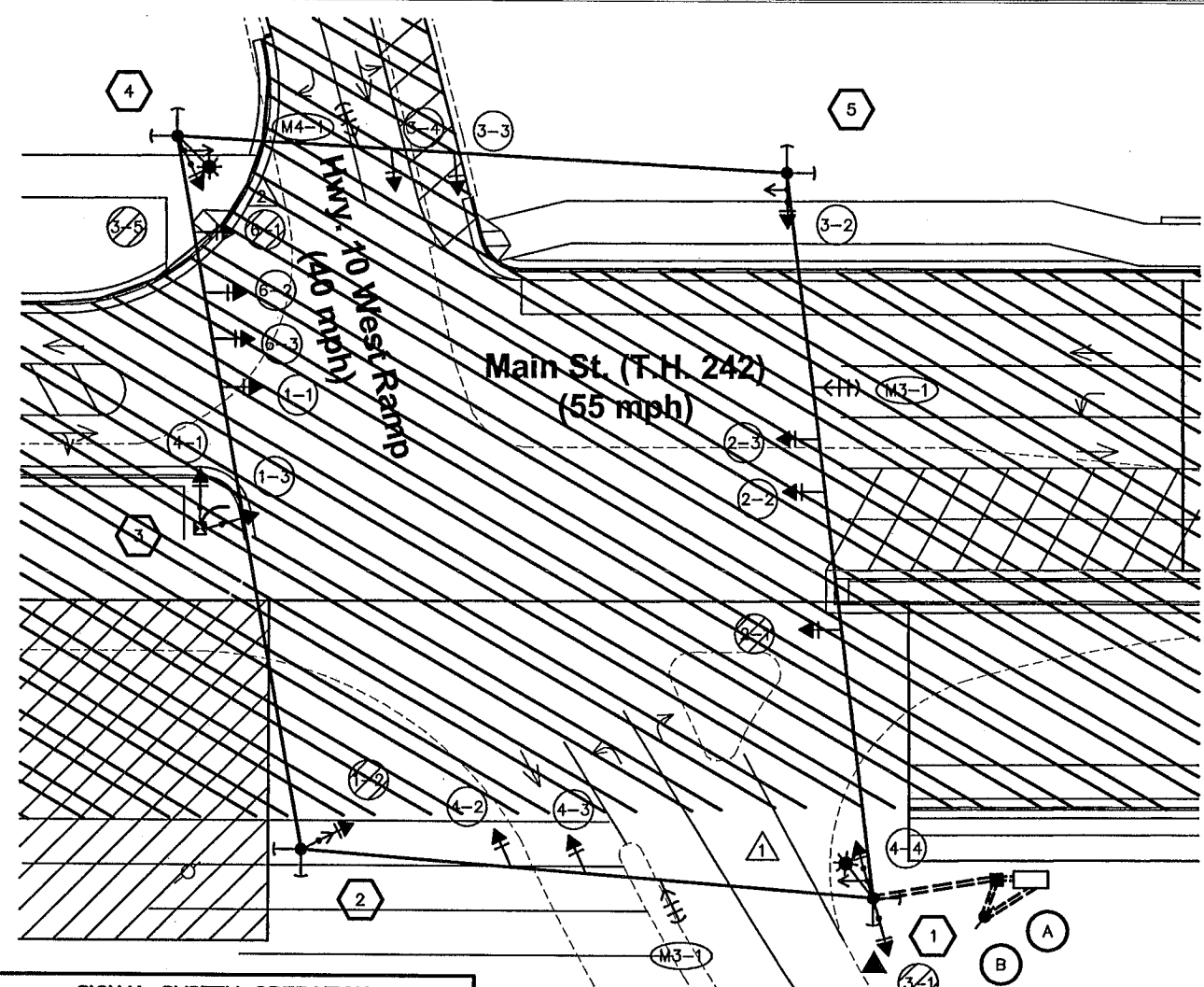
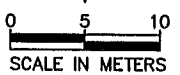
SIGNAL SYSTEM OPERATION
 - THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
 - NORMAL OPERATION IS 4 PHASE WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
 - PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



SIGNAL FACES
ALL INDICATIONS SHALL BE 300 mm

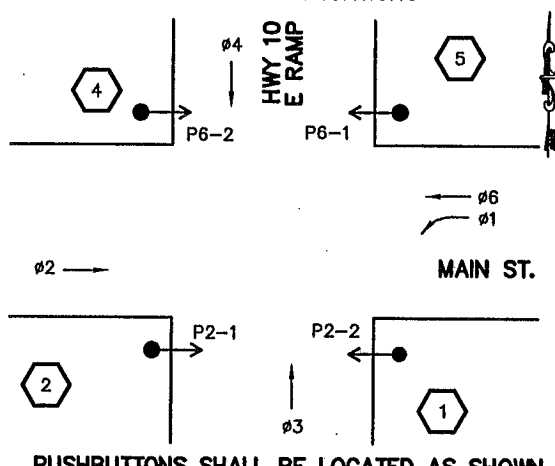
STATUS	SIGNAL FACE	R	Y	G	R	Y	G
	1-1, 1-2				←	←	←
BAG	2-1	●	●	●			
	2-2, 2-3				←	←	←
BAG	3-1, 3-3	●	●	●			
	3-2				←	←	←
BAG	3-4, 3-6	●	●	●			
BAG	3-5	●	●	●			
BAG	4-1, 4-2	●	●	●			
BAG	4-3, 4-4	●	●	●			
BAG	6-1	●	●	●			
BAG	6-2, 6-3	●	●	●			



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.

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



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	●	●	●			
BAG	2-2, 2-3	●	●	●			
	3-1				←	←	←
BAG	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.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
 DRAWN BY: JAS
 DESIGN BY: JRN
 CHKD. BY: RJG
 DWG. NAME: WRAMPTEMP
 DATE: DECEMBER 21, 1999



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 DATE: 12/21/99 MINN. REG. NO. 26781

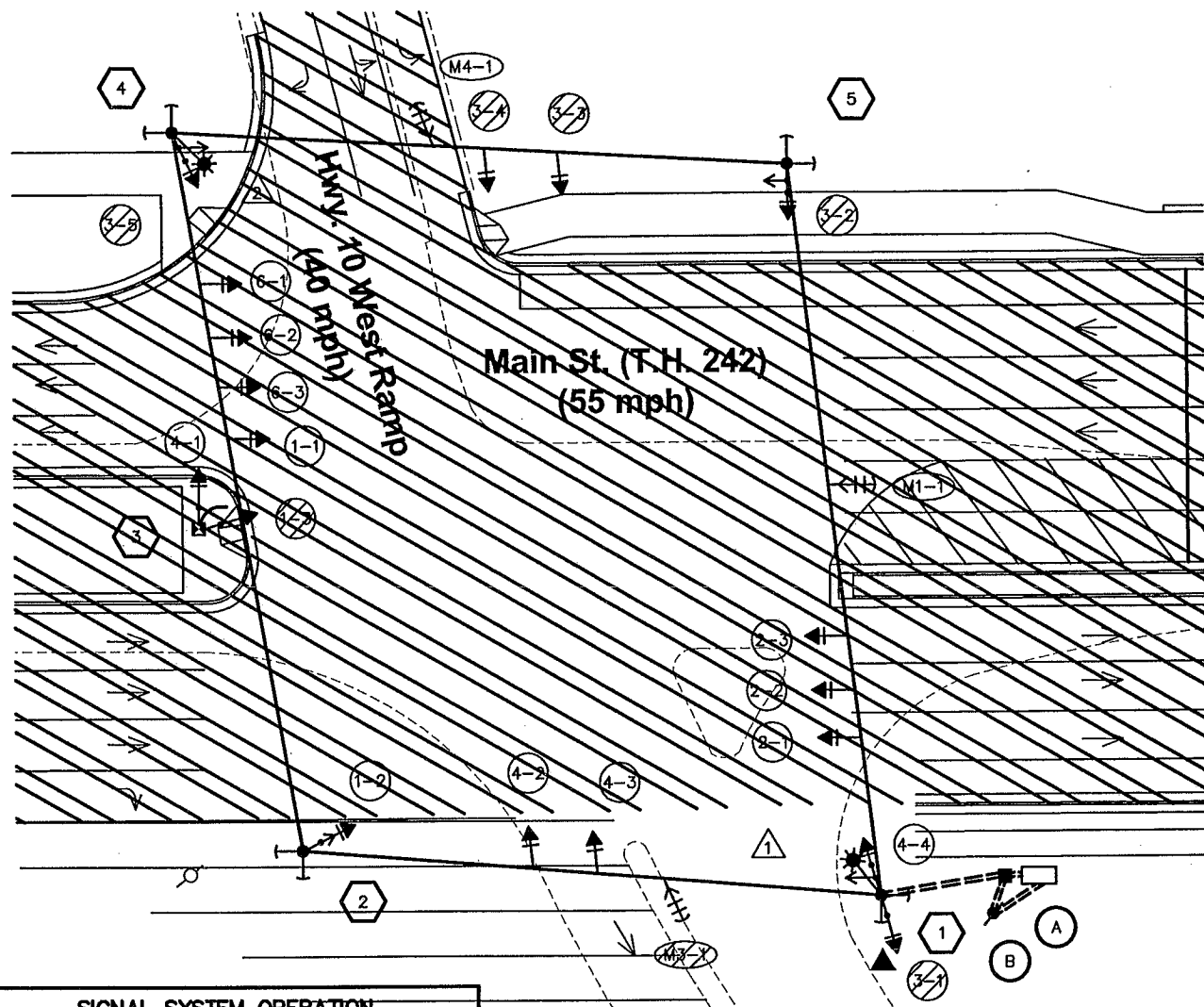
**MAIN STREET/T.H. 242 RECONSTRUCTION
 TEMPORARY TRAFFIC SIGNAL SYSTEM "F"
 MAIN ST. (T.H. 242) / T.H. 10 WEST RAMP
 SIGNAL STAGING LAYOUT**
 CITY PROJECT 98-20

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

CON42
CON41
CON31
CON21
P4S2
P4
P3
P3S,
P21
P2S1
PSIG
E-PLN
VHETO
-ESUM
E-ALI

PLOT DATE: Apr 22, 1999 11:49am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\temp.dwg

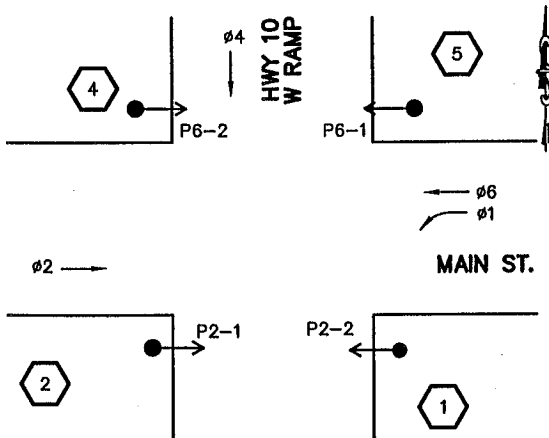


PHASE 4, STAGE 1 LAYOUT

SIGNAL SYSTEM OPERATION

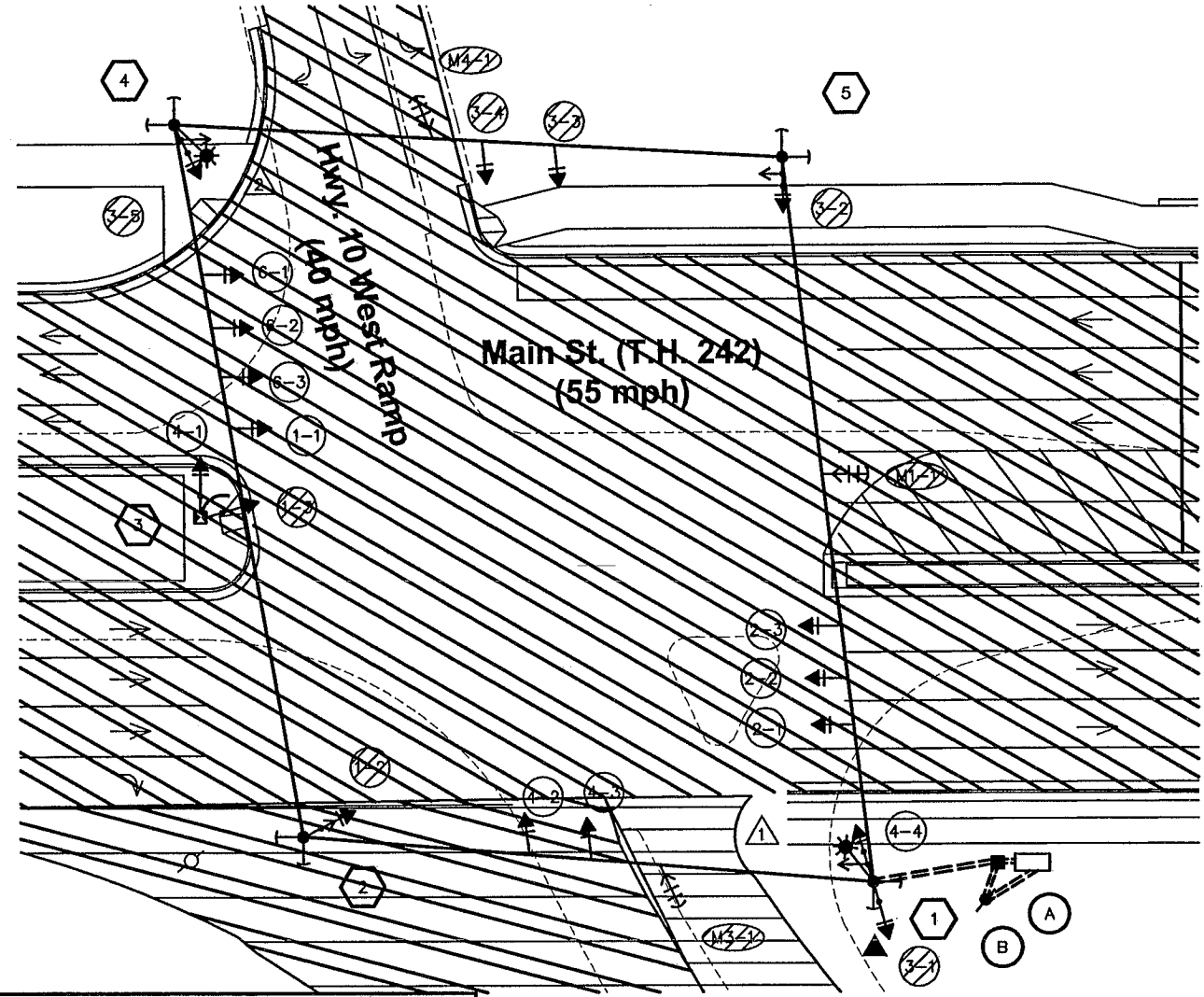
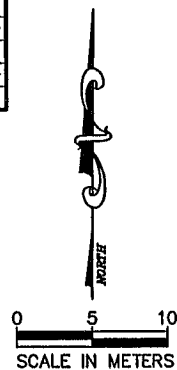
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 4 PHASE WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

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
BAG	1-1, 1-2				←	←	←
BAG	1-3				←	←	←
BAG	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	●	●	●			

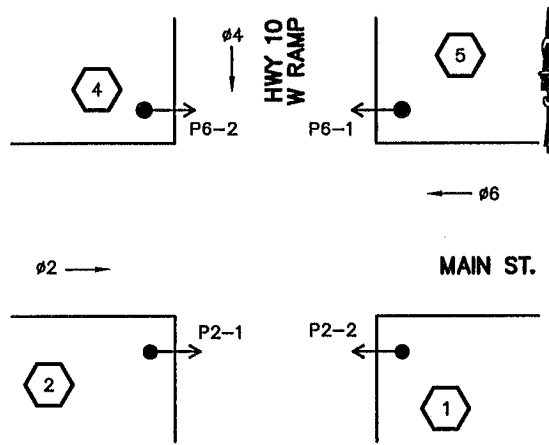


PHASE 4, STAGE 2 LAYOUT

SIGNAL SYSTEM OPERATION

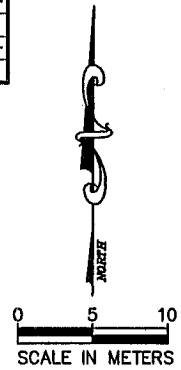
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 3 PHASE WITH PHASE 1 BEING A PROTECTED LEFT TURN PHASE IN LOCK MODE OPERATION.
- PHASES 2 & 6 SHALL BE ON MAXIMUM (PEDESTRIAN) RECALL.

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				←	←	←
BAG	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	●	●	●			



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE:
33889028
DRAWN BY:
JAS
DESIGN BY:
JRN
CHKD. BY:
RJG
DWG. NAME:
WRAMPTMP
DATE:
DECEMBER 21, 1999



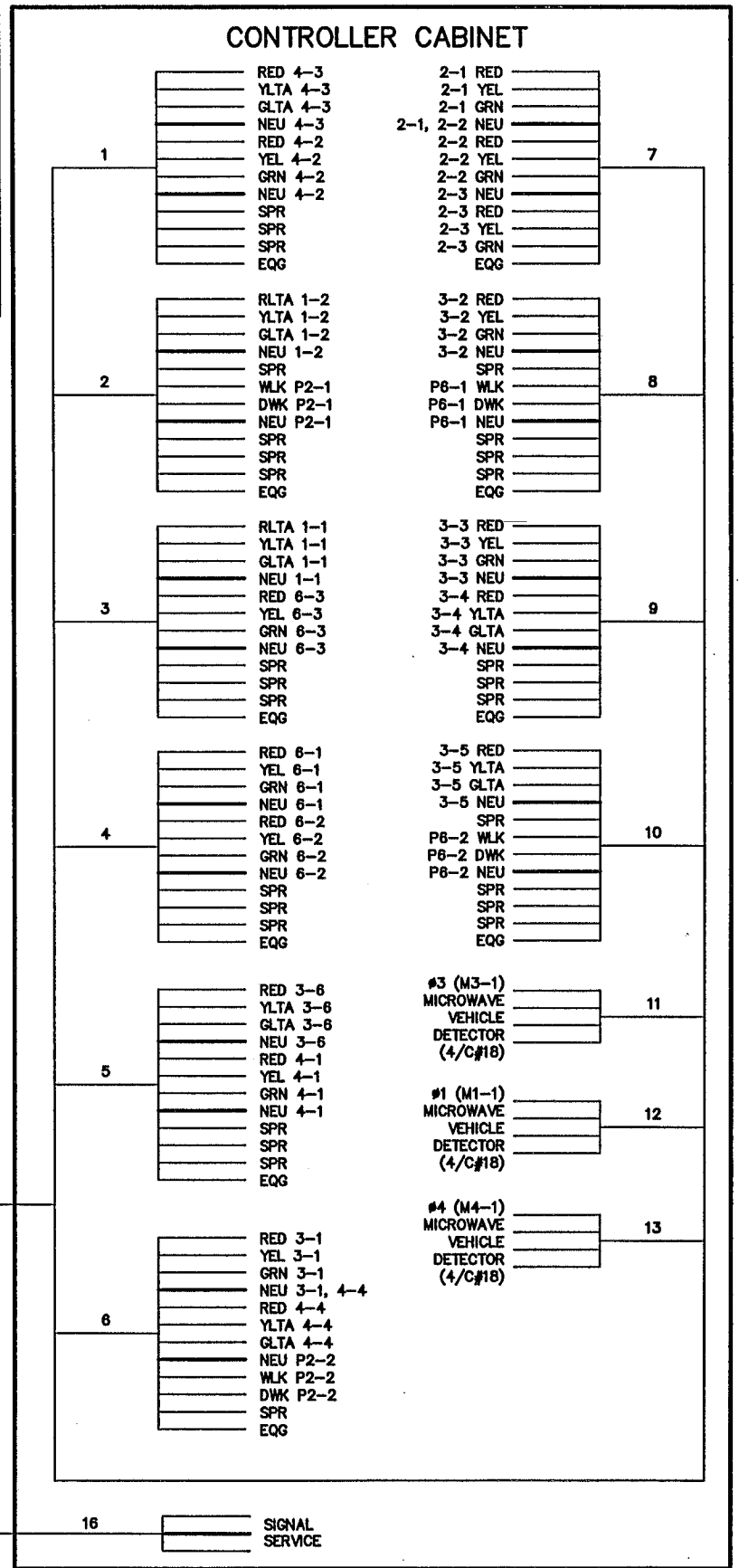
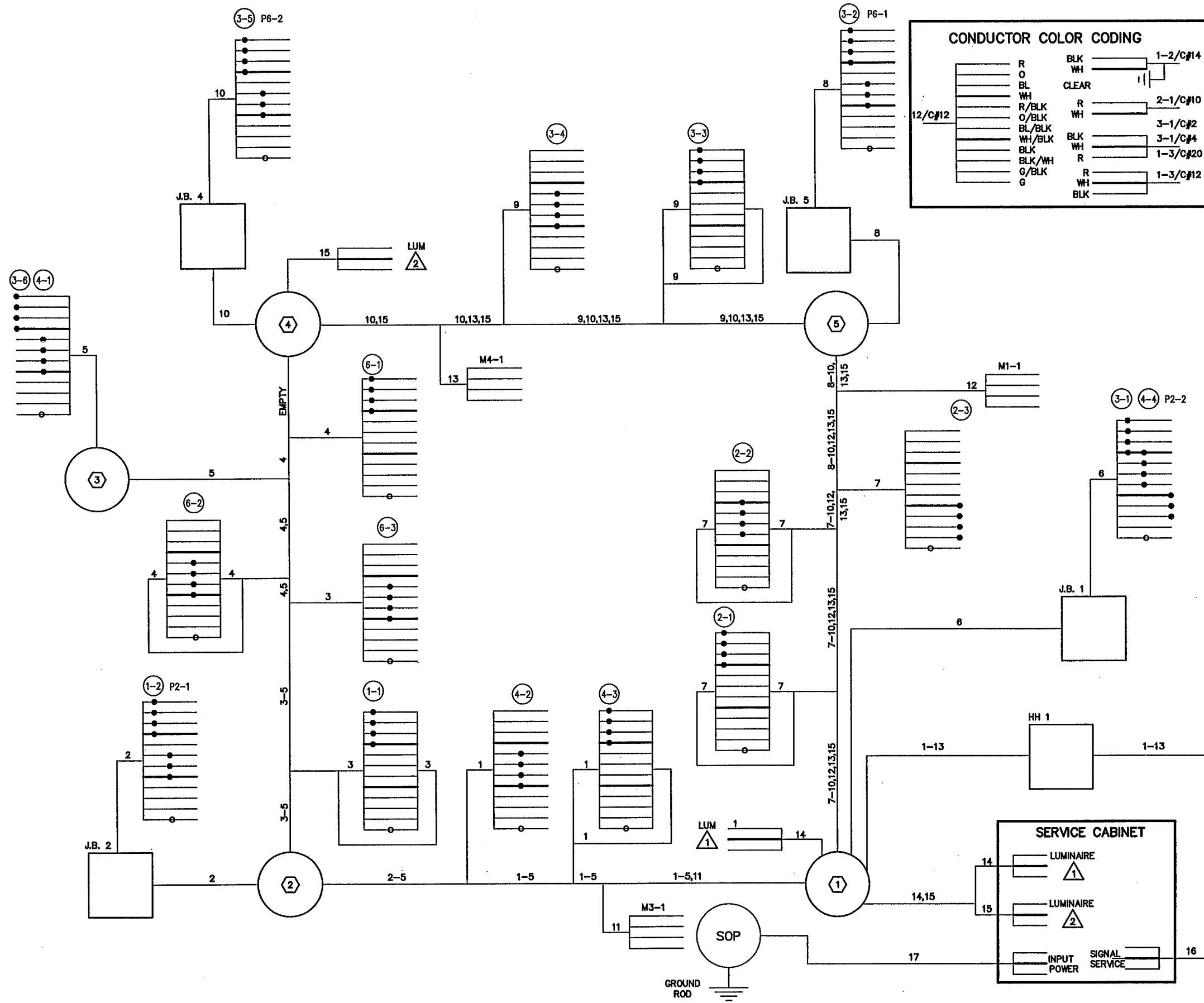
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Kevin A. Carter
DATE: 12/21/99 MINN. REG. NO. 26781

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, 2004 11:49am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\temp.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028	DESIGN BY: JRN
DRAWN BY: JAS	CHKD. BY: RJK
DWG. NAME: WRAMPTEMP	DATE: DECEMBER 21, 1999

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[Signature]
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)	SHEET NO.
S.A.P. 02 - 614 - 19	362
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

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

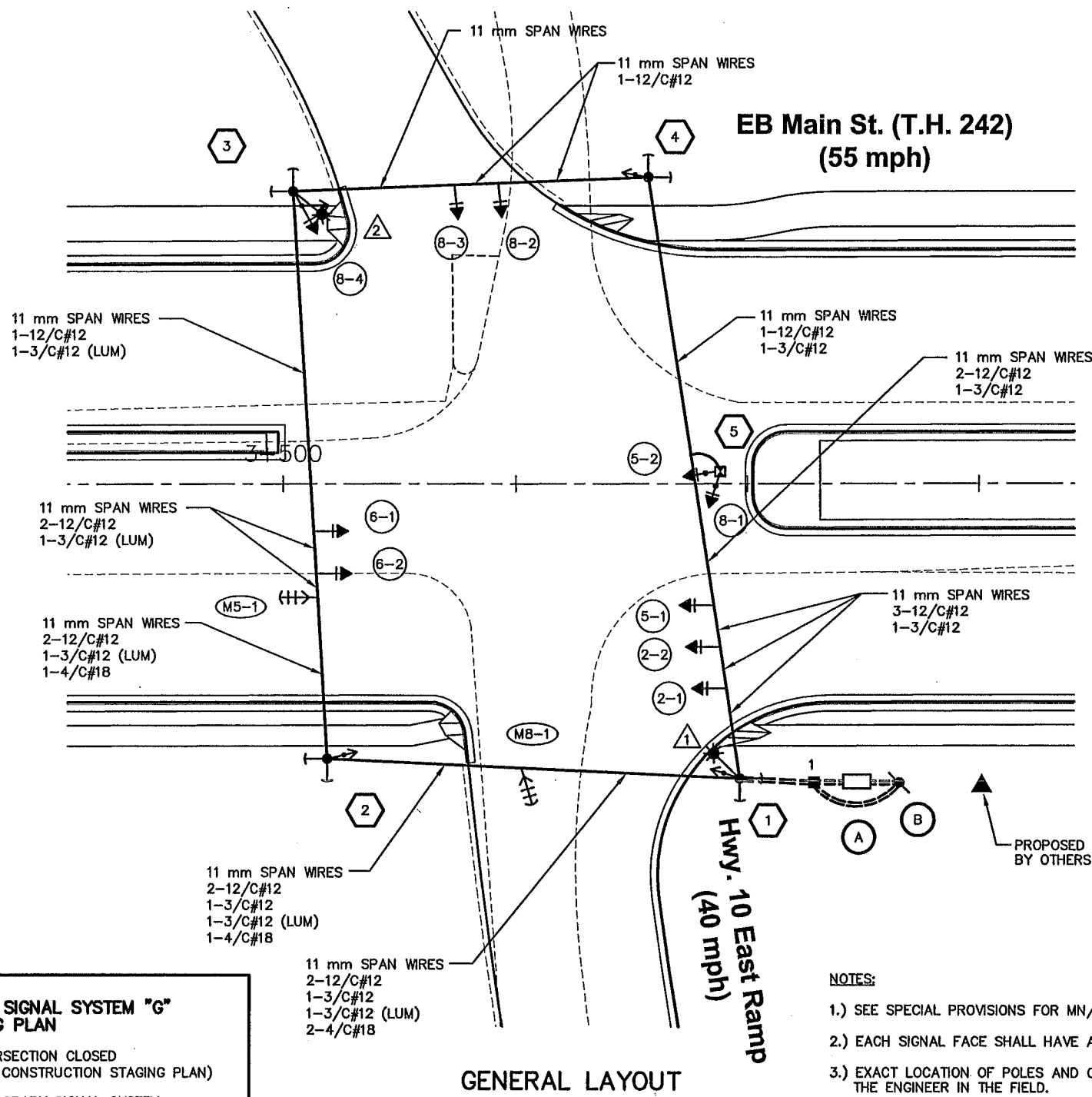
**TEMPORARY TRAFFIC SIGNAL SYSTEM "G"
STAGING PLAN**

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

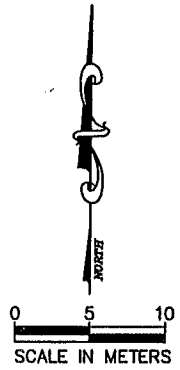
STUB OUT 53 mm RSC BELOW SERVICE EQUIPMENT
(FOR POWER BY CONNEXUS)

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:

- SEE SPECIAL PROVISIONS FOR MN/DOT AND ANOKA COUNTY FURNISHED MATERIALS.
- EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
- EXACT LOCATION OF POLES AND CABINET SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- THE CONTRACTOR SHALL PROVIDE SUFFICIENT SLACK IN CABLE TO ALLOW FOR RELOCATING VEHICLE HEADS AS SHOWN ON SIGNAL STAGING SHEET.
- 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".



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE:
33889028

DRAWN BY: JAS
DESIGN BY: JRN

CHKD. BY: RJG
DWG. NAME: ERAMPTEMP

DATE:
DECEMBER 21, 1999



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 "G"**
MAIN ST. (T.H. 242) / T.H. 10 EAST RAMP
GENERAL LAYOUT

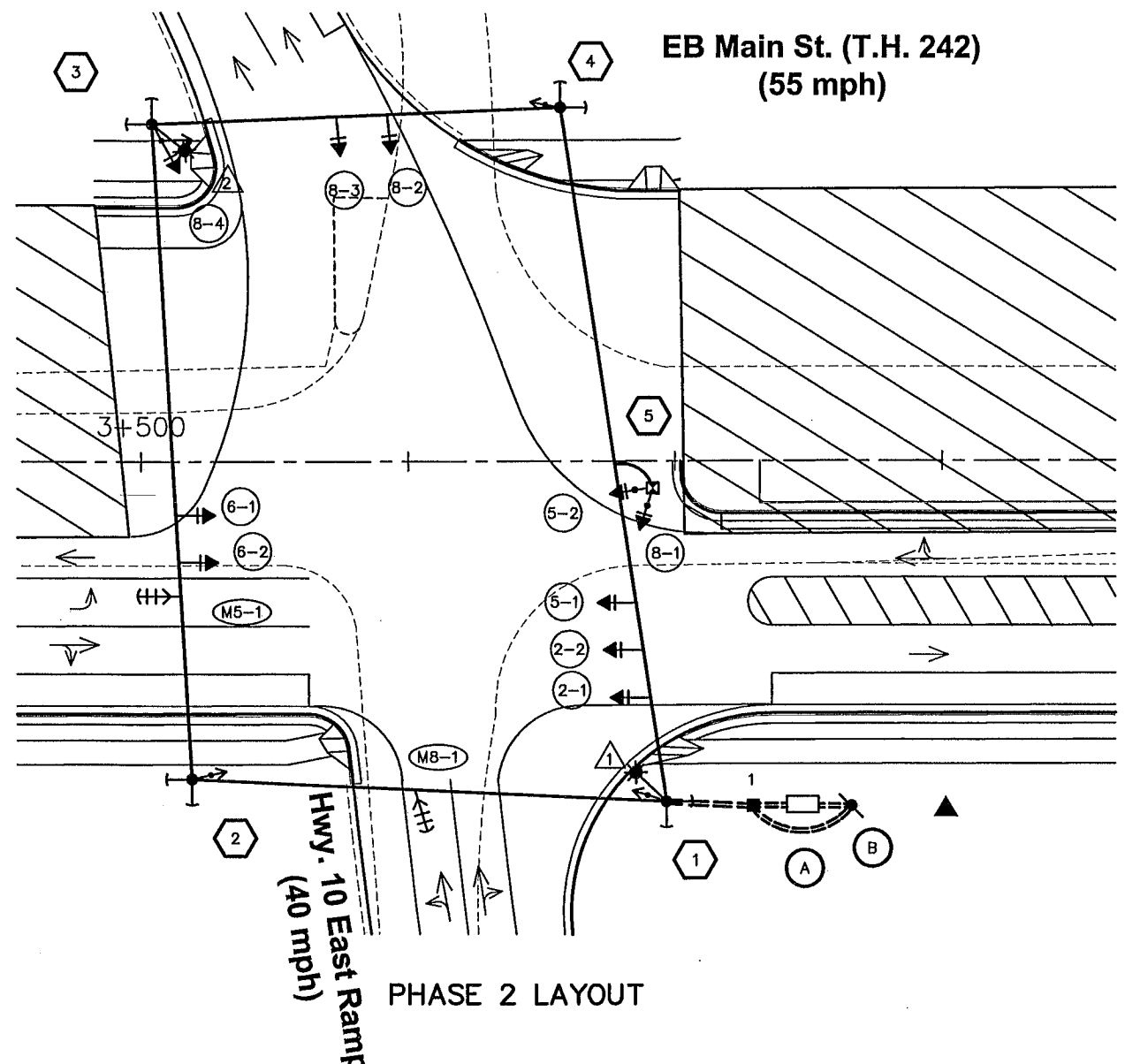
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)

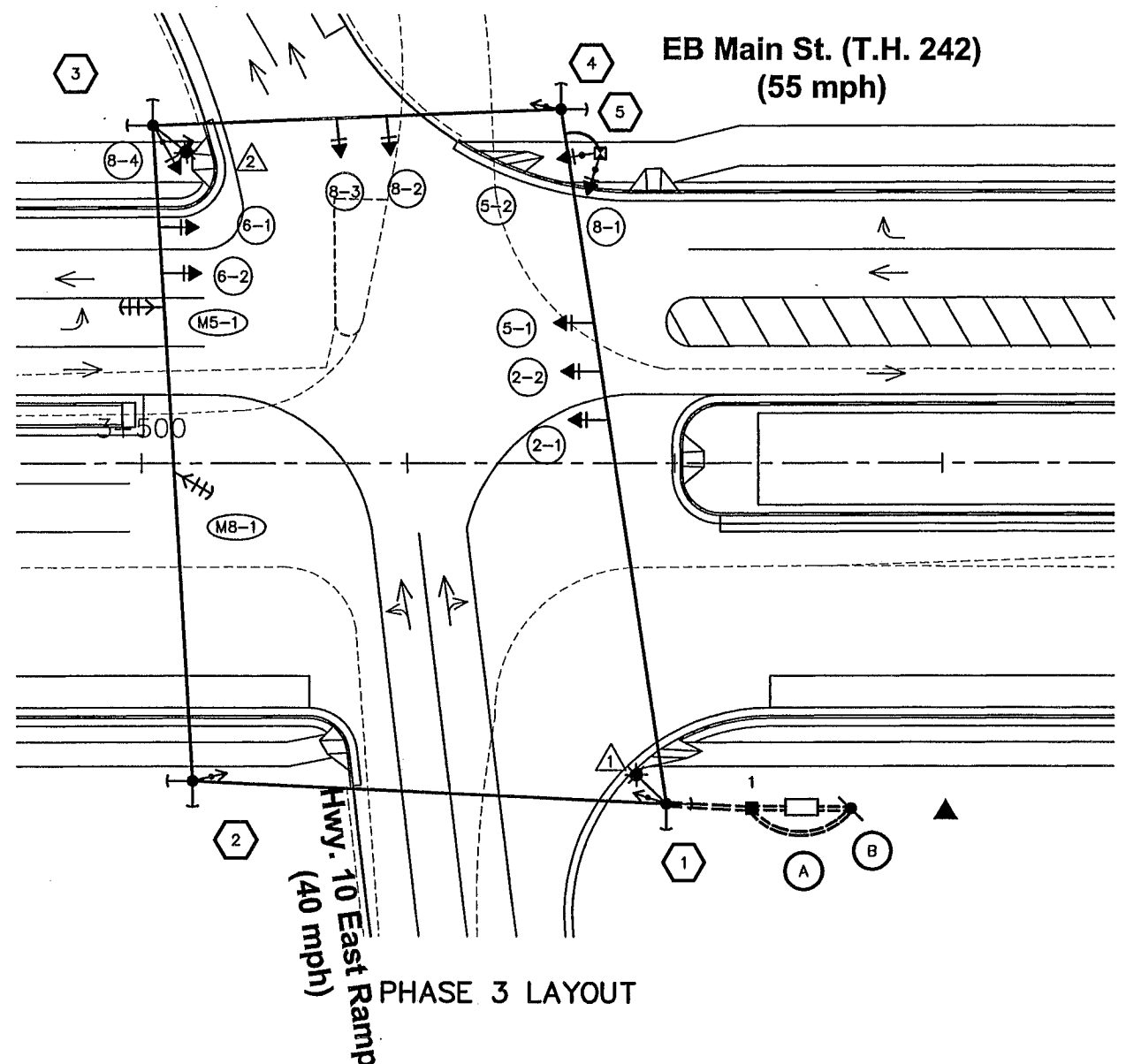
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO.
363

539

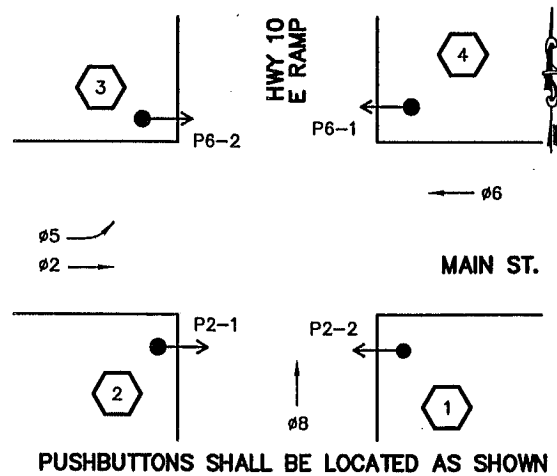


PHASE 2 LAYOUT



PHASE 3 LAYOUT

CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

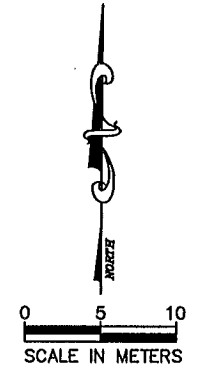
SIGNAL SYSTEM OPERATION

- 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.

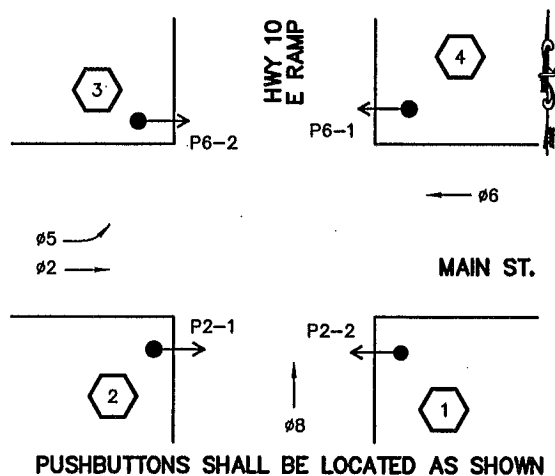
SIGNAL FACES

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	●	●	●			



CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



PUSHBUTTONS SHALL BE LOCATED AS SHOWN

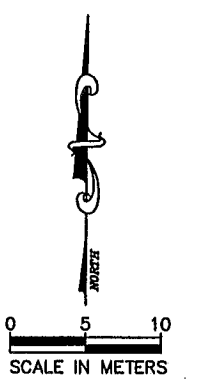
SIGNAL SYSTEM OPERATION

- 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	●	●	●			



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE:
33889028
DRAWN BY:
JAS
DESIGN BY:
JRN
CHKD. 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
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

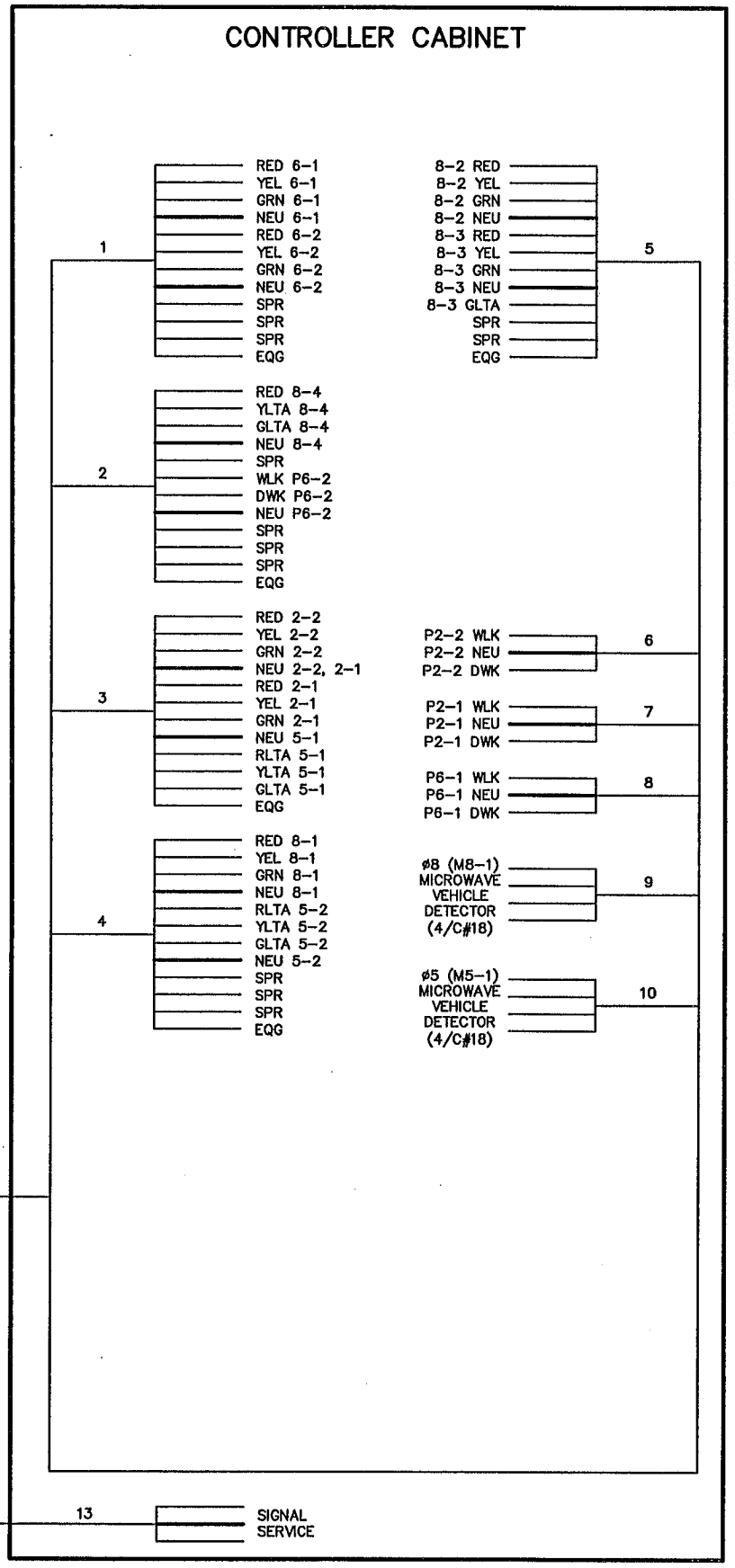
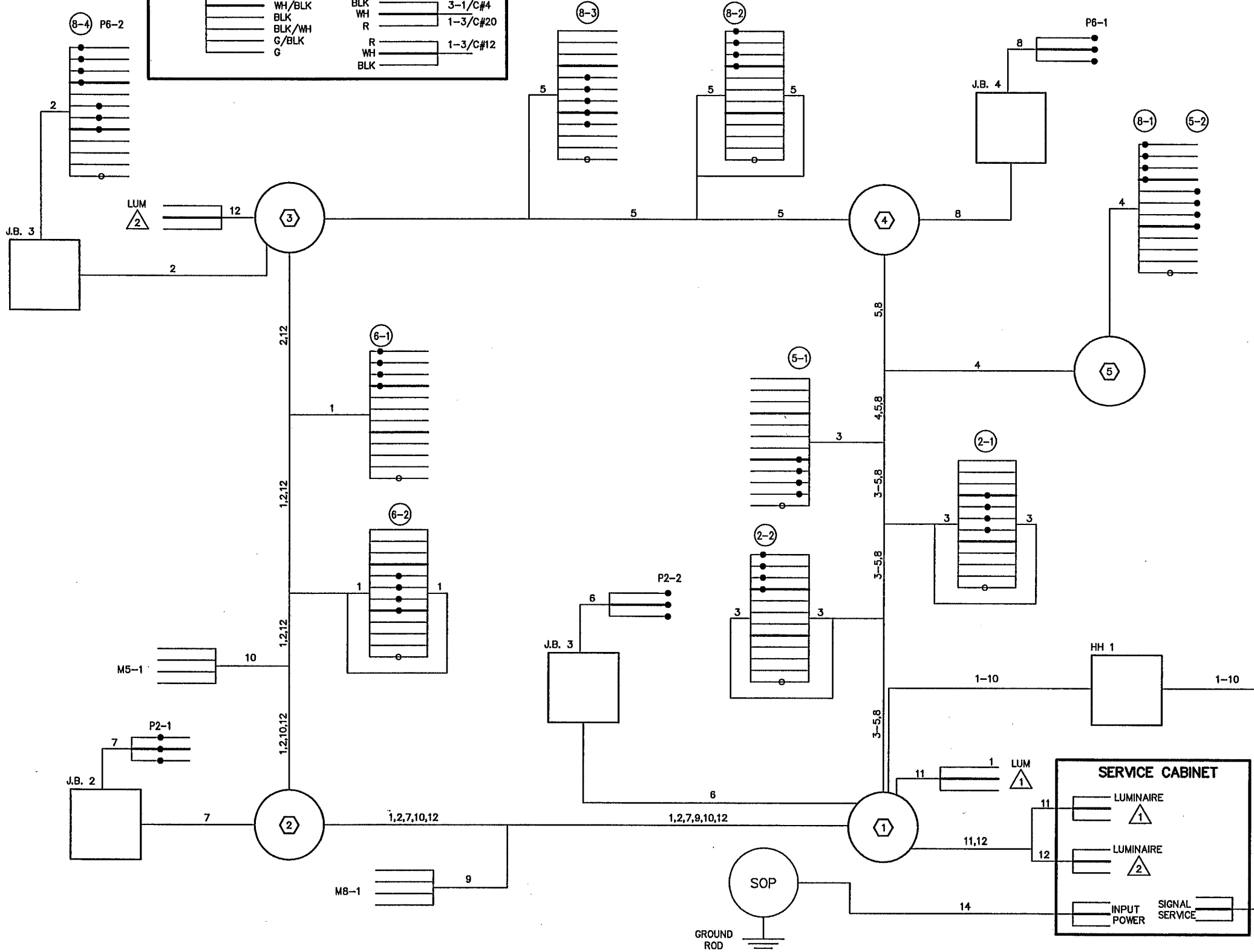
SHEET NO.
364
539

PLOT DATE: Apr 22, 2000 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\TempSig\temp.dwg

PLOT DATE: Apr 22 11:46am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\temp.dwg

CONDUCTOR COLOR CODING

12/C#12	R	BLK	1-2/C#14
	O	WH	1-2/C#14
	BL	CLEAR	1-2/C#14
	WH	R	2-1/C#10
	R/BLK	WH	2-1/C#10
	O/BLK	BLK	3-1/C#2
	BL/BLK	WH	3-1/C#2
	WH/BLK	BLK	3-1/C#4
	BLK	WH	3-1/C#4
	BLK/WH	R	1-3/C#20
	G/BLK	R	1-3/C#12
	G	WH	1-3/C#12
		BLK	1-3/C#12



REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028	
DRAWN BY: JAS	DESIGN BY: JRN
CHKD. BY: RJG	DWG. NAME: ERAMPTEMP
DATE: DECEMBER 21, 1999	

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Kenneth A. Carter

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

31
3S1
21
2S1
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)

- 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

- 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

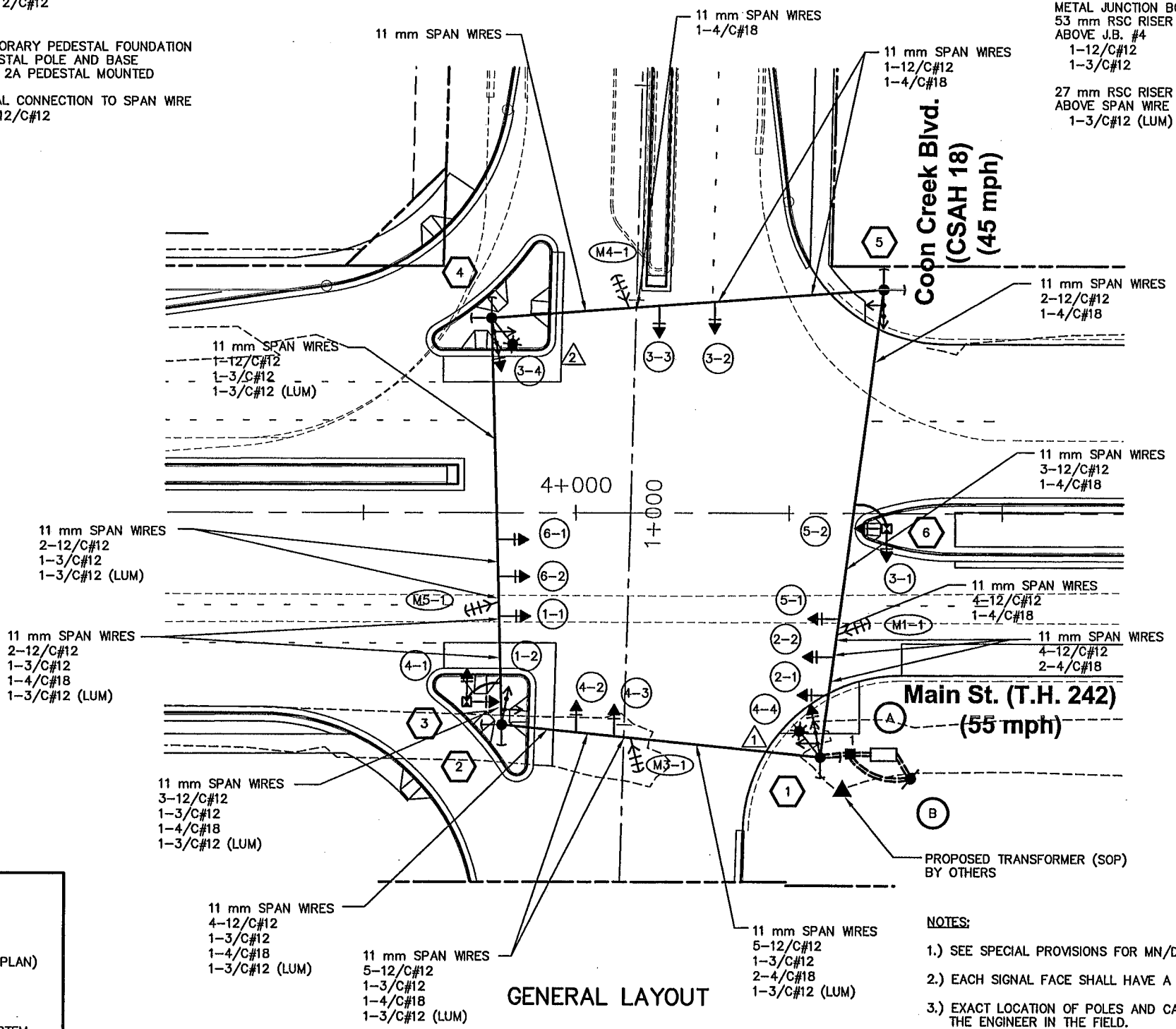
EXTEND INTO SERVICE EQUIPMENT
27 mm RSC
3-1/C#6

- 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)



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

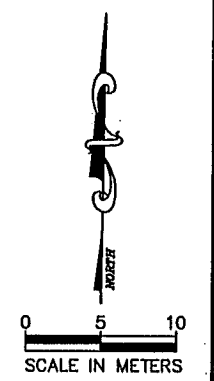
PHASE 1, STAGE 1 - INTERSECTION BYPASS
(SEE CONSTRUCTION STAGING PLAN)

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:
- SEE SPECIAL PROVISIONS FOR MN/DOT & ANOKA COUNTY FURNISHED MATERIALS.
 - EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - EXACT LOCATION OF POLES AND CABINET SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 - THE CONTRACTOR SHALL PROVIDE SUFFICIENT SLACK IN CABLE TO ALLOW FOR RELOCATING VEHICLE HEADS AS SHOWN ON SIGNAL STAGING SHEET.
 - 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".



PLOT DATE: Apr 22, 2004 11:45am DISK FILE NAME: (15.06) R:\33889\33889028\33889\Temp\sig\amp.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028	DRAWN BY: JAS	DESIGN BY: JRN
CHKD. BY: RJC	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)370-1576 (FAX)

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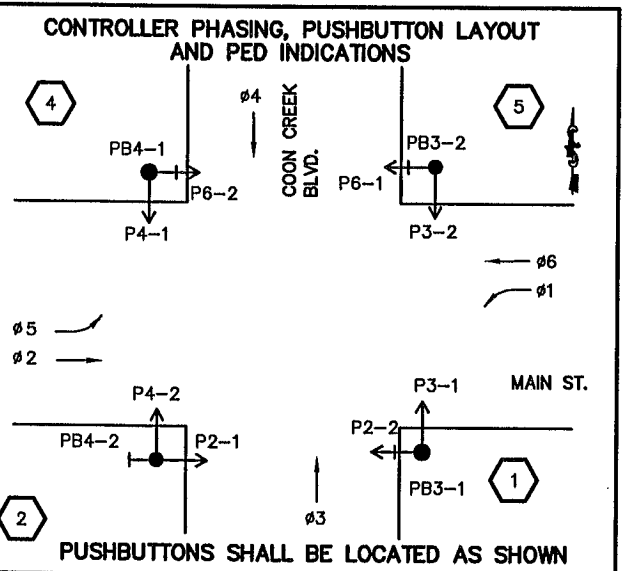
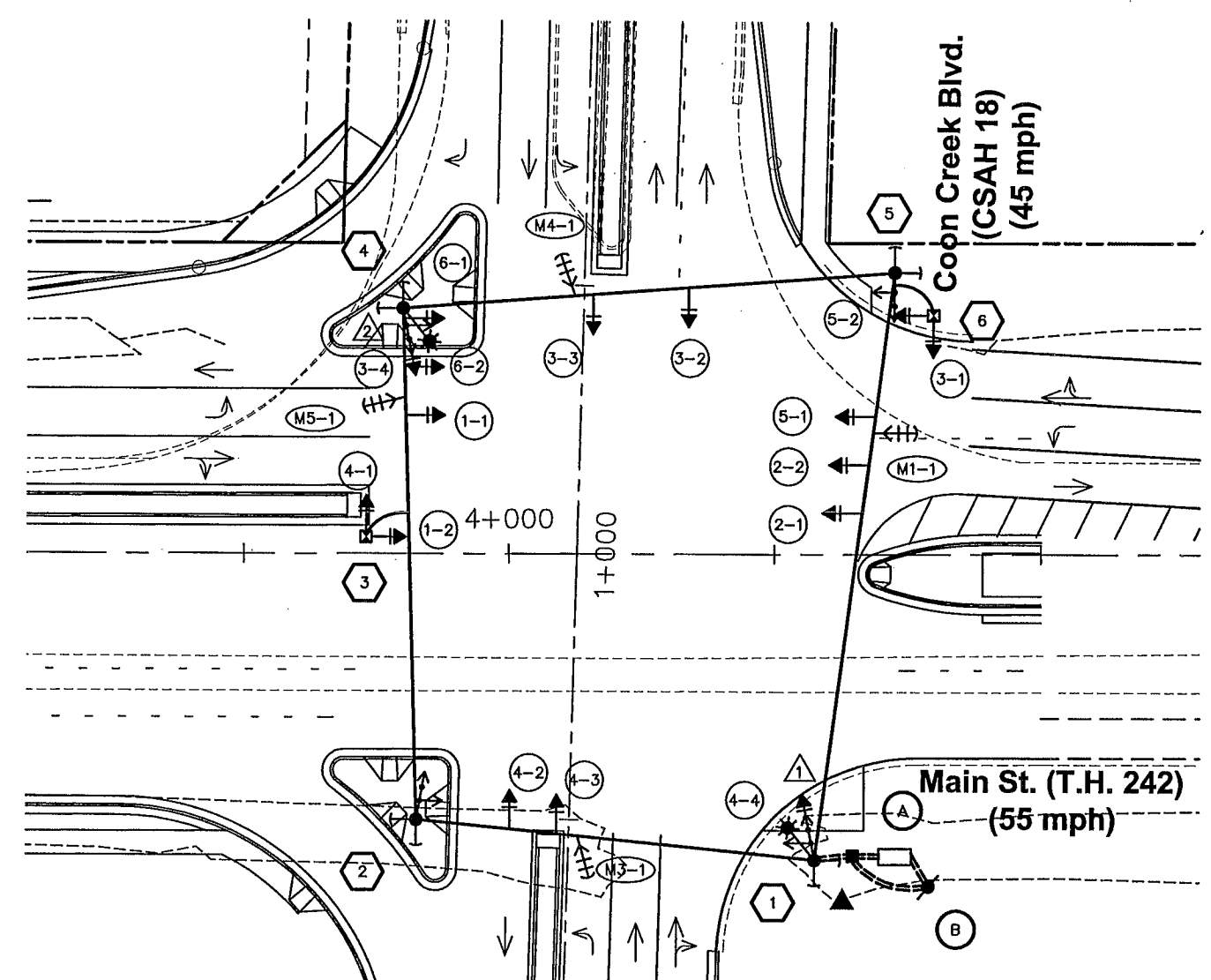
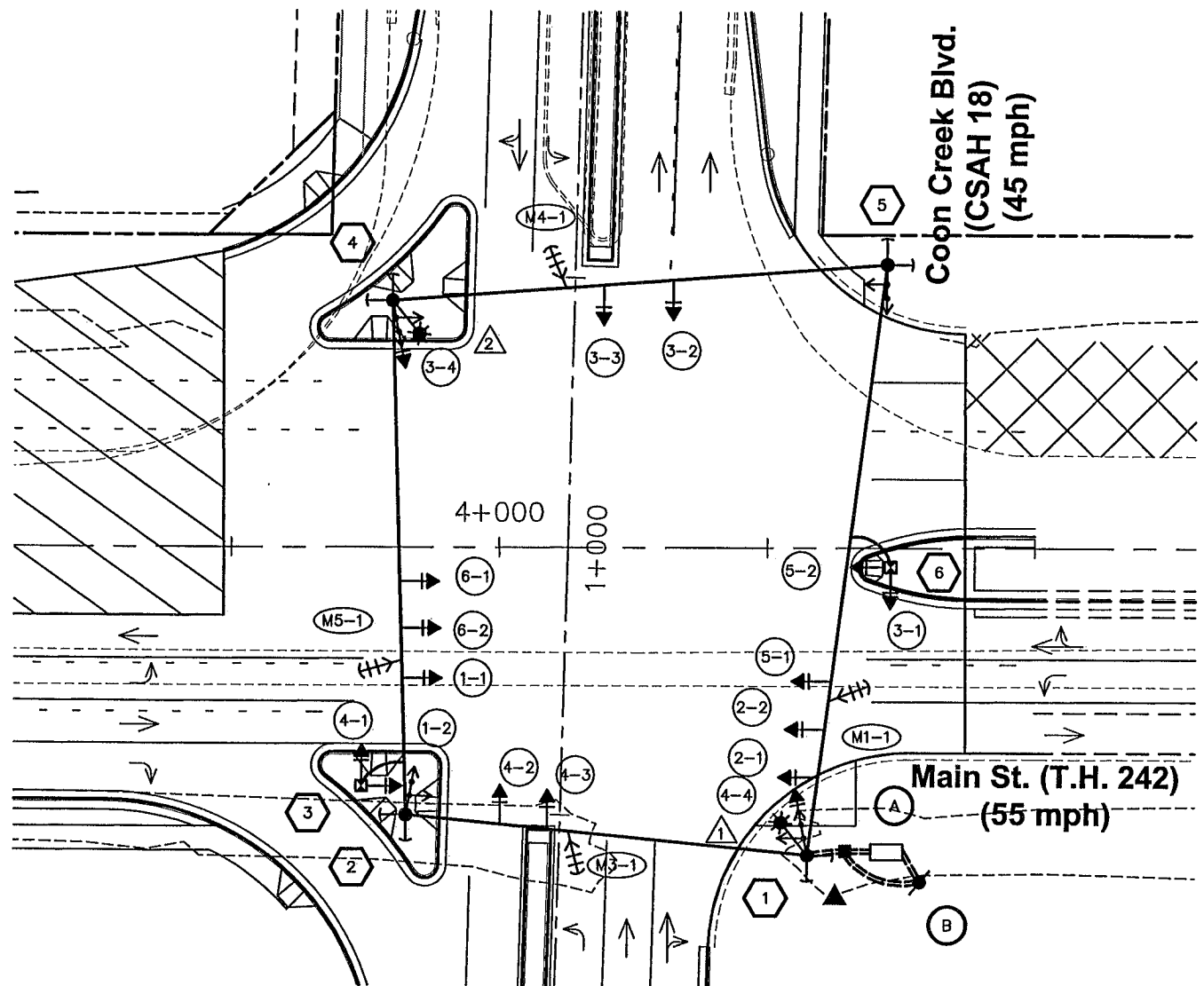
Keith A. Carter
DATE: 12/21/99 MINN. REG. NO. 26781

**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)	SHEET NO.
S.A.P. 02 - 614 - 19	366
S.A.P. 02 - 618 - 24	539
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

31
3S1
21
2S1
SIG
-F
HL
ESU
-ALI



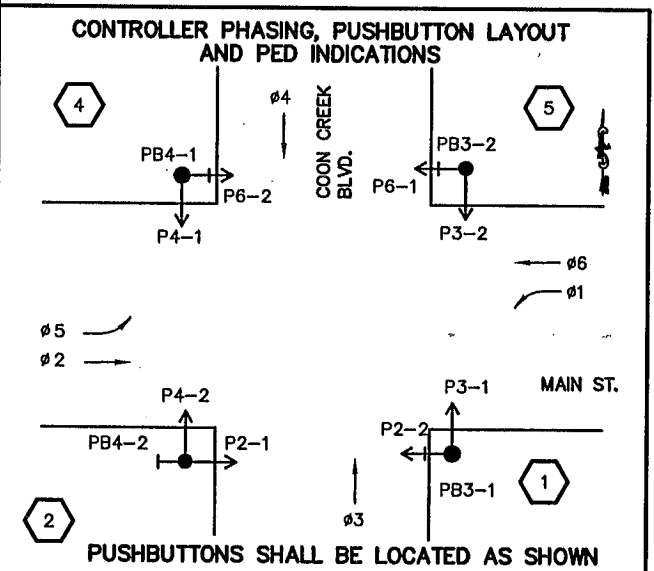
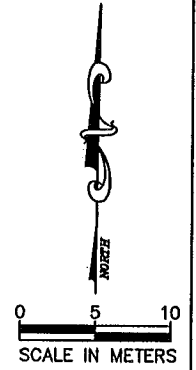
SIGNAL SYSTEM OPERATION

- 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	●	●	●			



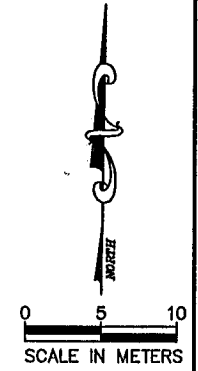
SIGNAL SYSTEM OPERATION

- 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	●	●	●			



PLOT DATE: Apr 22, 1999 J4 11:45am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\cemp.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION

DESIGN FILE: 33889028
 DRAWN BY: JAS
 CHECKED BY: RJG
 DATE: DECEMBER 21, 1999



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 "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

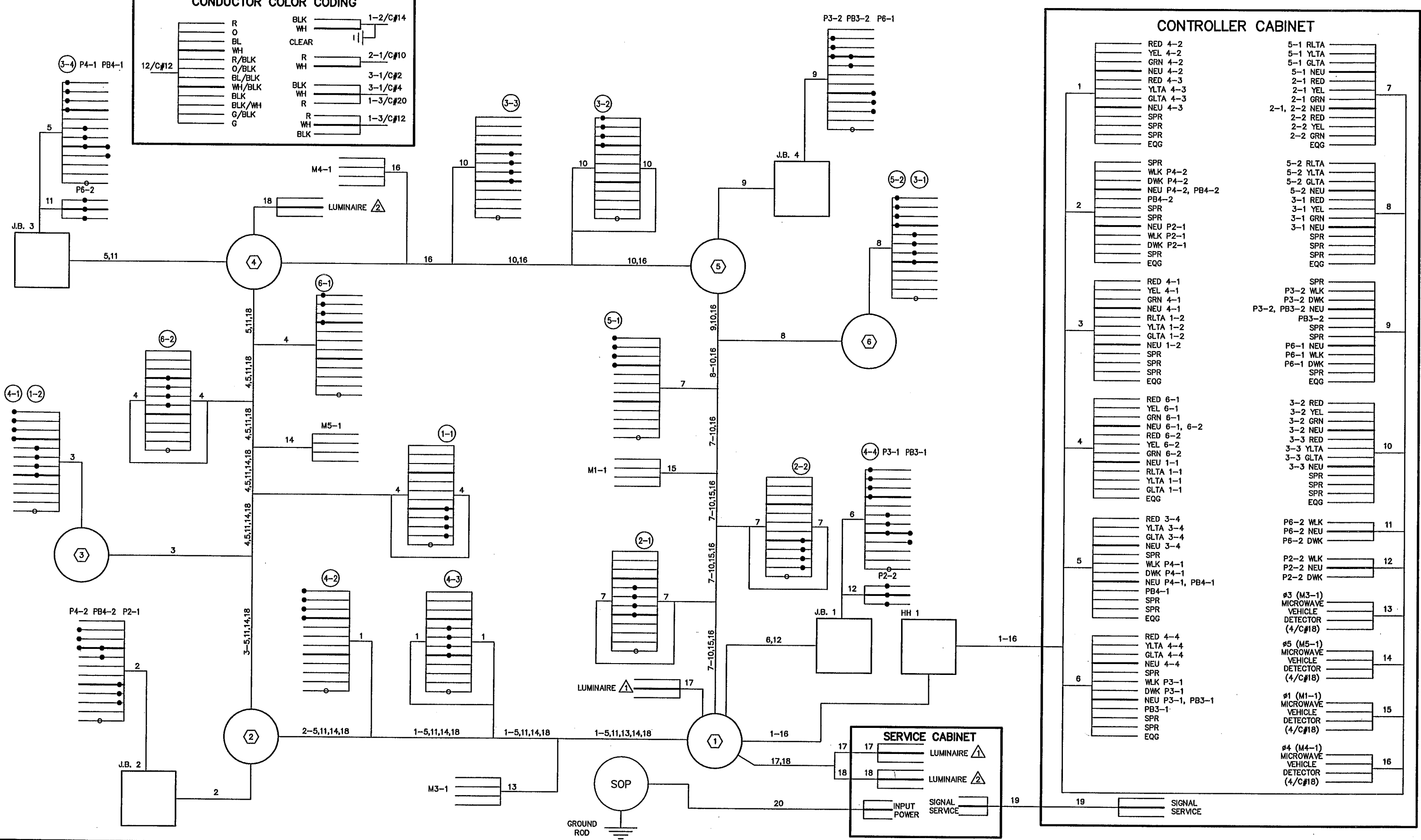
SHEET NO. 367

539

PLOT DATE: Apr 22, 2004 11:45am DISK FILE NAME: (15.06) R:\33889\33889028\33889W\Tempsig\temp.dwg

CONDUCTOR COLOR CODING

BLK	1-2/C#14
WH	1
CLEAR	1
R	2-1/C#10
WH	
BLK	3-1/C#2
WH	3-1/C#4
R	1-3/C#20
WH	1-3/C#12
BLK	
R	
WH	
BLK	
G/BLK	
G	



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
 CHKD. 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)
 (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.
 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

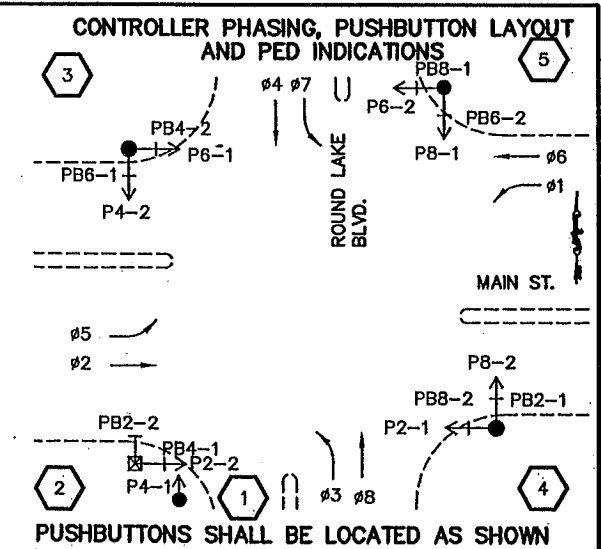
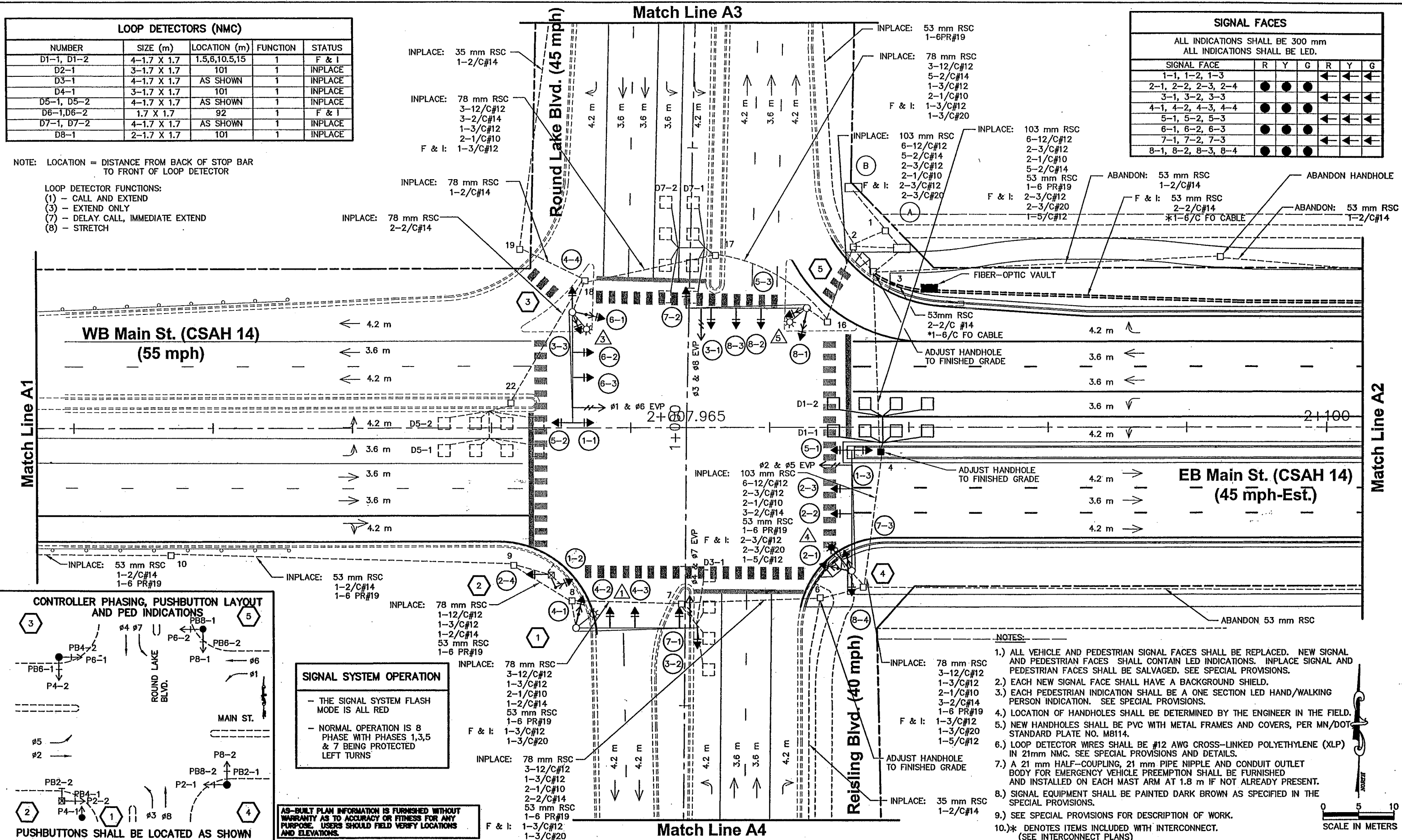
SHEET NO. 368
 539

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	●	●	●	←	←	←



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. MB114.
 - 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)



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/8/2000	UPDATED NOTES
2	JRN	1/8/2000	UPDATED SIGNAL SYSTEM OPERATION
3	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: JAS	DESIGN BY: JRN
CHECKED BY: RJG	DWG. NAME: 0-LAY	
DATE: DECEMBER 21, 1999		

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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

A DAMES & MOORE GROUP COMPANY

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: 12/5/99 MINN. REG. NO. 22793

**MAIN STREET/T.H. 242 RECONSTRUCTION
REVISE TRAFFIC SIGNAL SYSTEM "A"
MAIN ST. (CSAH 14) / ROUND LAKE/REJSLING BLVD.
INTERSECTION LAYOUT**

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	369
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	539
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

PLOT DATE: Apr 30, 2004 3:30pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\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 (#4 & #7)
(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

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
F & I: 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 (#1 & #6)
(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°

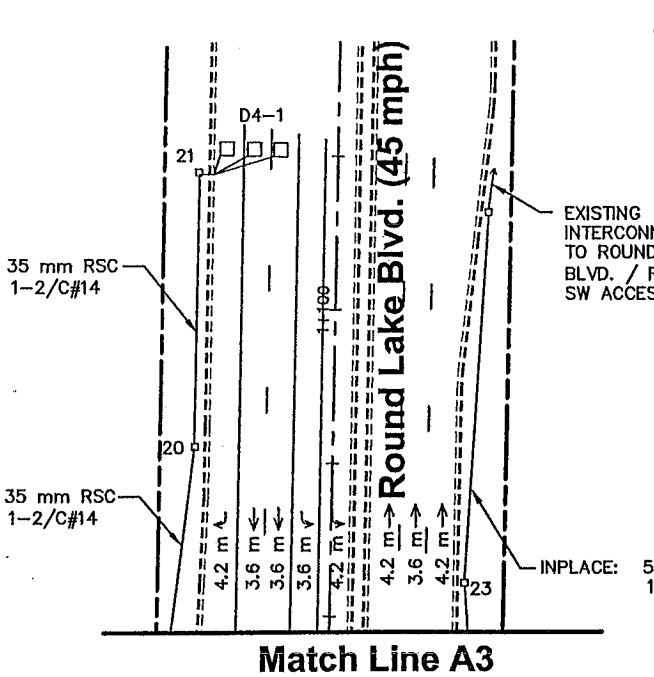
EXTEND INTO HH 18:
INPLACE: 78 mm RSC
3-12/C#12
2-1/C#10
1-3/C#12
F & I: 1-3/C#12
1-3/C#20

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

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
F & I: TYPE 10A POLE MOUNTED AT 180°
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
2 - ONE WAY SIGNALS OVERHEAD (4.9 m & 8.5 m)
1-TWO WAY SIGNAL OVERHEAD
LUMINAIRE EXTENSION D12.2-2.7 (DAVIT AT 350°)
LUMINAIRE - 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 (#2 & #5)
(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
F & I: TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
4 - ONE WAY SIGNALS OVERHEAD
TYPE 10B POLE MOUNTED AT 0°
TYPE 10B POLE MOUNTED AT 270°
ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (#3 & #8)
(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

6 INPLACE: CONTROLLER AND CABINET
CABINET FOUNDATION
EXTEND INTO HH 1:
METERED SIGNAL SERVICE
INPLACE: 35 mm RSC
3-1/C#6

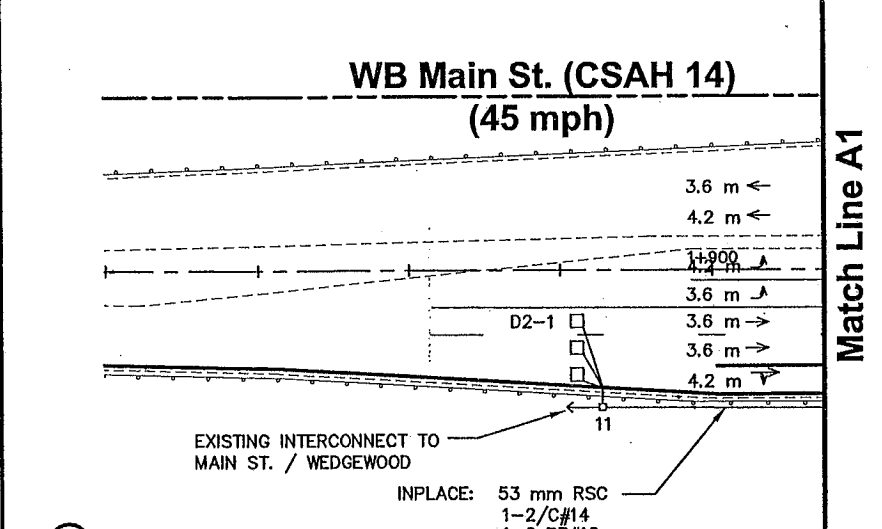
EXTEND INTO HH 2:
INPLACE: 103 mm RSC
6-12/C#12
5-2/C#14
2-3/C#12
1-6 PR#19
F & I: 2-3/C#12
2-3/C#20

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

INPLACE: 53 mm RSC
1-6 PR#19

ABANDON: 53 mm RSC
1-2/C#14
F & I: 53 mm RSC
2-2/C#14
*1-6/C FO CABLE

ABANDON HANDHOLE
F & I: 53 mm RSC
*1-6/C FO CABLE



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

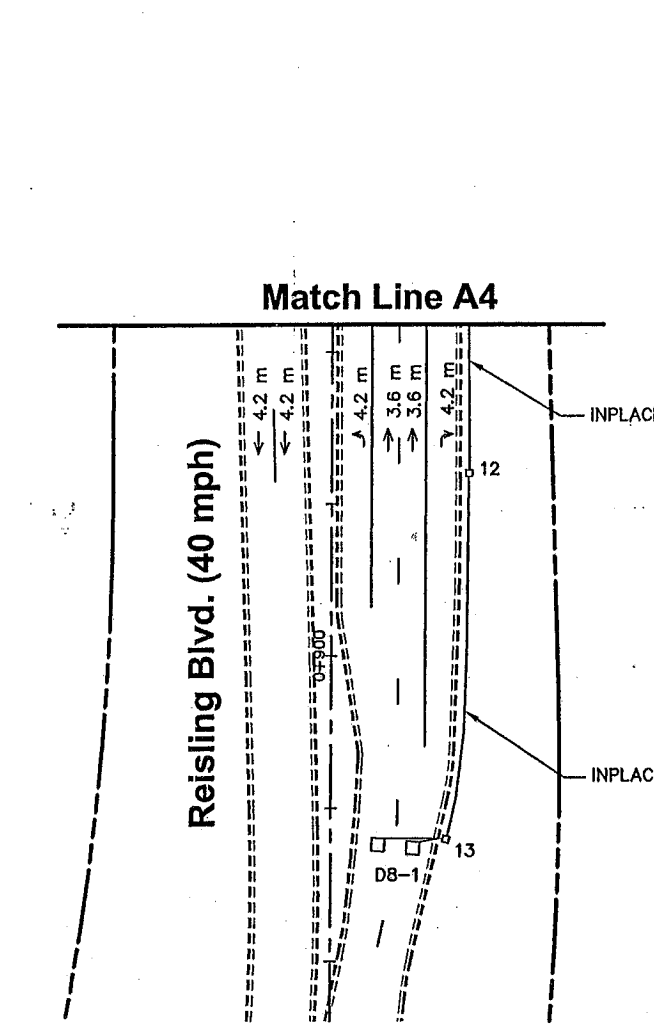
EXTEND INTO HH 3:
INPLACE: 103 mm RSC
6-12/C#12
6-2/C#14
2-3/C#12
1-6 PR#19
REMOVE: 1-2/C#14
F & I: 2-3/C#12
2-3/C#20
2-2/C#14
1-5/C#12
*1-6/C FO CABLE

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

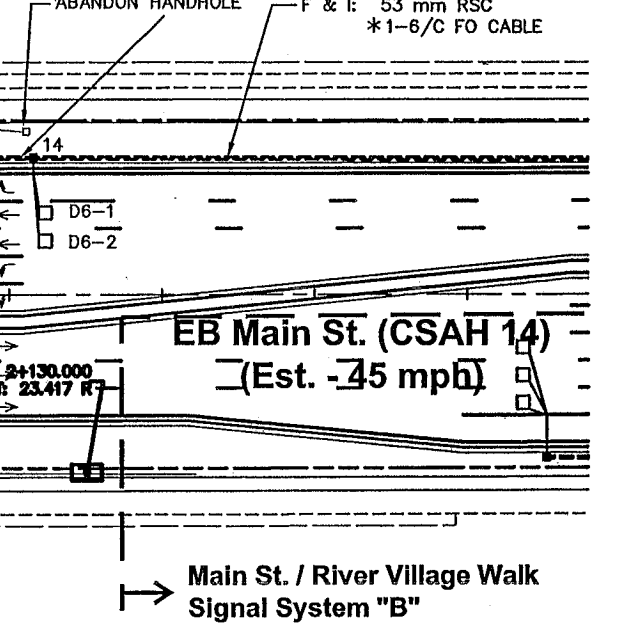
BETWEEN HH 1 AND HH 2:
INPLACE: 53 mm RSC
4-1/C#10

BETWEEN HH 2 AND HH 3:
INPLACE: 53 mm RSC
2-1/C#10



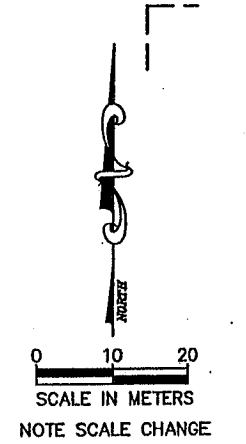
INPLACE: 35 mm RSC
1-2/C#14

INPLACE: 35 mm RSC
1-2/C#14



* DENOTES ITEMS INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)

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	UPDATED LOCATION OF LOOPS D6-1 & D6-2
2	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DESIGN BY: JRN
DRAWN BY: JAS	DWG. NAME: O-LAY2
CHKD. BY: RJG	DATE: DECEMBER 21, 1999

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

BRW
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MINNEAPOLIS, MN 55415
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A DAMES & MOORE GROUP COMPANY

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Robert J. Green

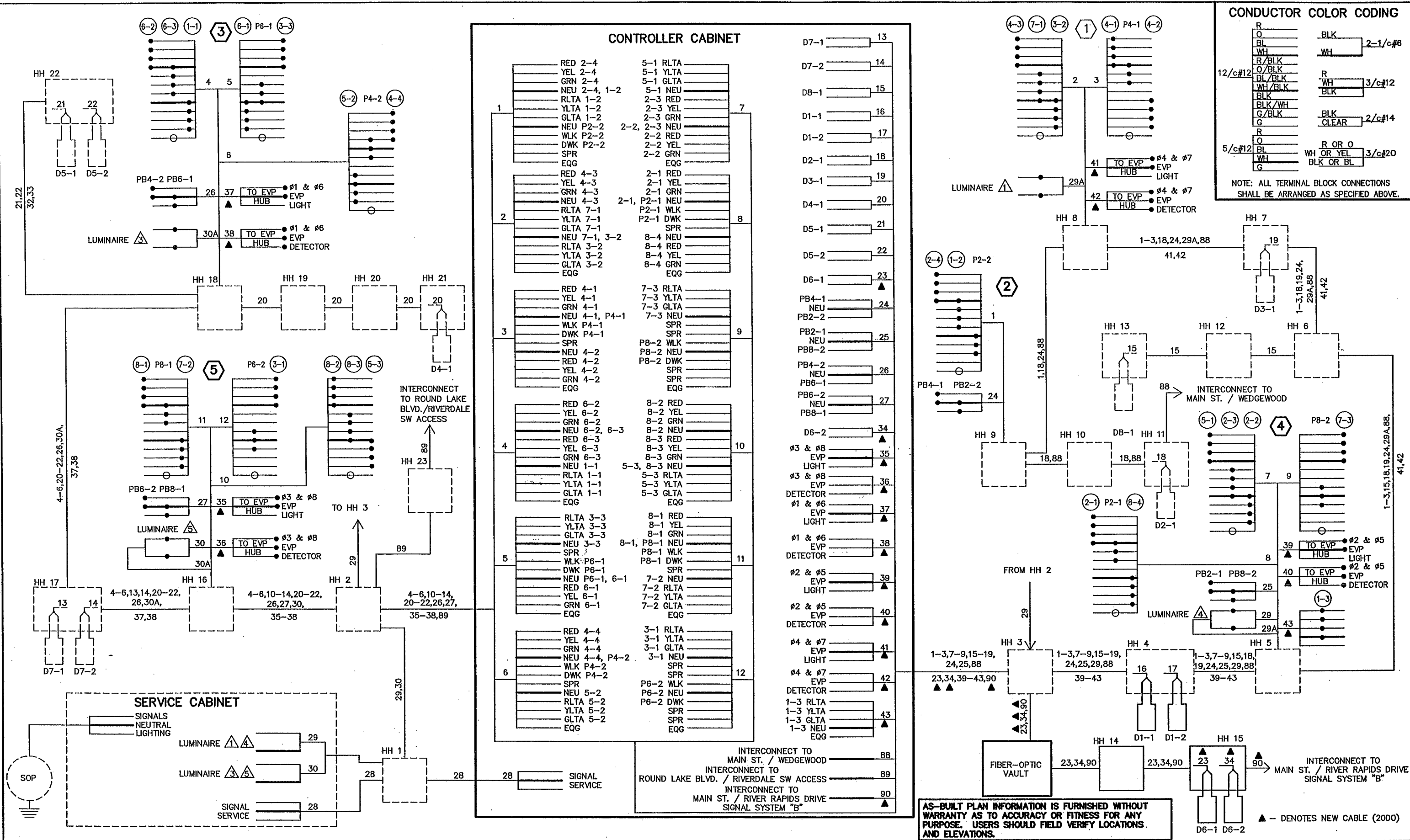
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION TRAFFIC SIGNAL SYSTEM "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)	SHEET NO.
S.A.P. 02 - 614 - 19	370
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PLOT DATE: Jul 06, 2004 3:58pm DISK FILE NAME: (15.06) R:\33889\33889028\SIGNALS\Main\As-Built\0-wire.dwg



CONDUCTOR COLOR CODING

R	BLK	
O	WH	2-1/c#8
R/BLK	WH	
O/BLK	R	3/c#12
WH/BLK	WH	
BLK	BLK	
BLK/WH	BLK	2/c#14
G/BLK	CLEAR	
R	R OR O	
O	WH OR YEL	3/c#20
BL	BLK OR BL	
WH		
G		

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE:	33889028
DRAWN BY:	JAS
DESIGN BY:	JRN
CHECKED BY:	RJK
DWG. NAME:	0-WIRE
DATE:	DECEMBER 21, 1999

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 A. Green

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)	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.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

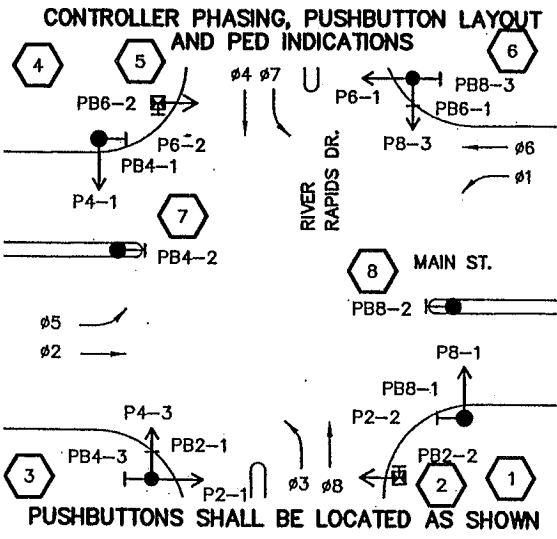
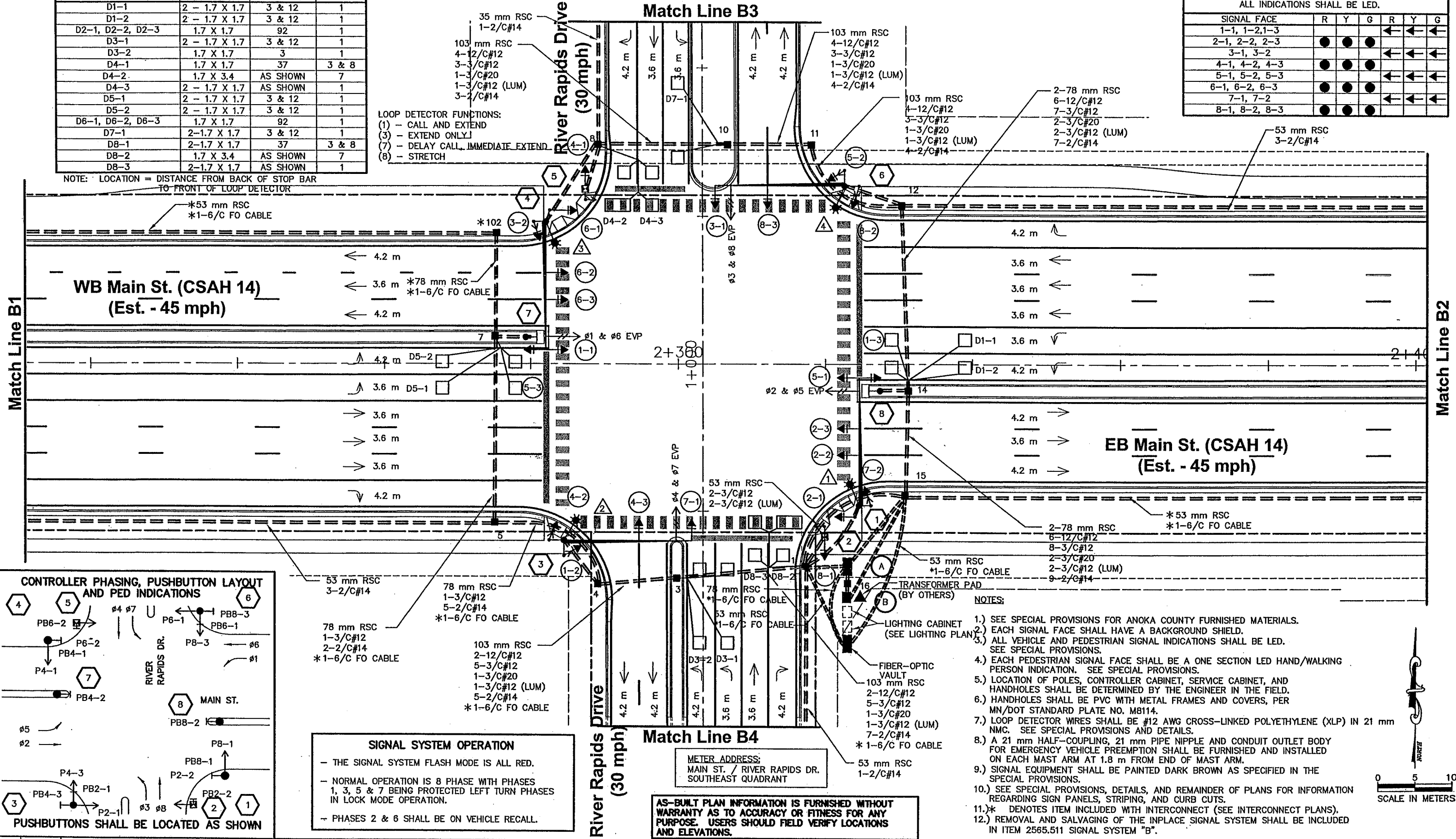
PLOT DATE: Jul 13, 2004 8:18am
 DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\1-lay.dwg
 10X
 -ESUM
 -LNW
 -ALIW
 -TRIPLE
 -BASE

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

LOOP DETECTOR FUNCTIONS:
 (1) - CALL AND EXTEND
 (2) - 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	●	●	●	←	←	←
5-1, 5-2, 5-3				←	←	←
6-1, 6-2, 6-3	●	●	●	←	←	←
7-1, 7-2				←	←	←
8-1, 8-2, 8-3	●	●	●	←	←	←



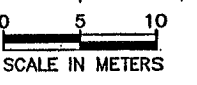
SIGNAL SYSTEM OPERATION

- 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:
- SEE SPECIAL PROVISIONS FOR ANOKA COUNTY FURNISHED MATERIALS.
 - EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
 - EACH PEDESTRIAN SIGNAL FACE SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
 - LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 - HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
 - LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS-LINKED POLYETHYLENE (XLP) IN 21 mm NMC. SEE SPECIAL PROVISIONS AND DETAILS.
 - 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.
 - SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
 - SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
 - * DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).
 - REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "B".



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

CHKD. BY: RJG DWG. NAME: 1-LAY

DATE: DECEMBER 21, 1999

BRW
 A DAMES & MOORE GROUP COMPANY

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 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

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Robert A. 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)	SHEET NO.
S.A.P.	02 - 614 - 19	372
S.A.P.	02 - 618 - 24	
S.P.	114 - 010 - 11	539
S.A.P.	114 - 020 - 19	
S.A.P.	114 - 136 - 02	
S.A.P.	114 - 127 - 02	

-ALI W
-ESUM
-TRIPLE
-GBASE
-LNW

PLOT DATE: Jul 13, 2004 8:22am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\1-lay2.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 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)

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)

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)

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 1:
78 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)

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 8:
78 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)

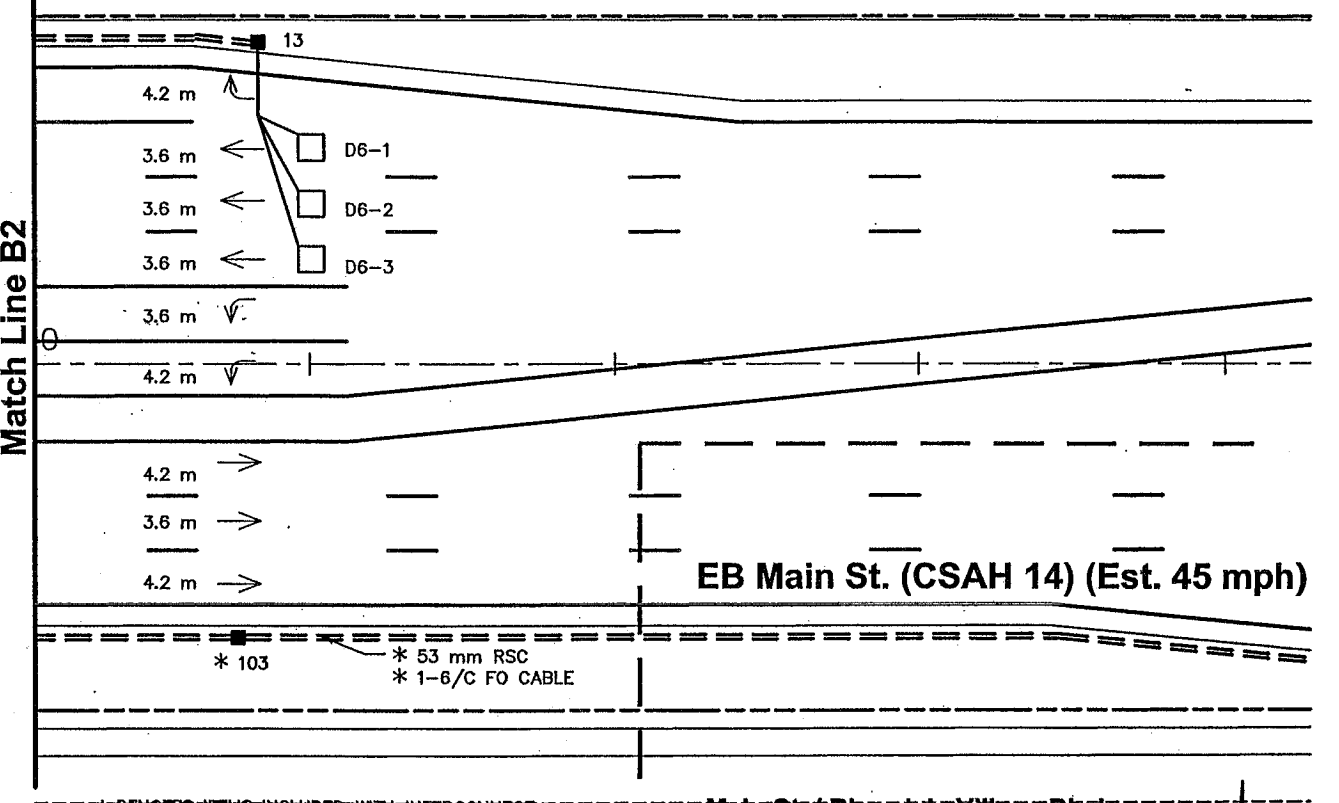
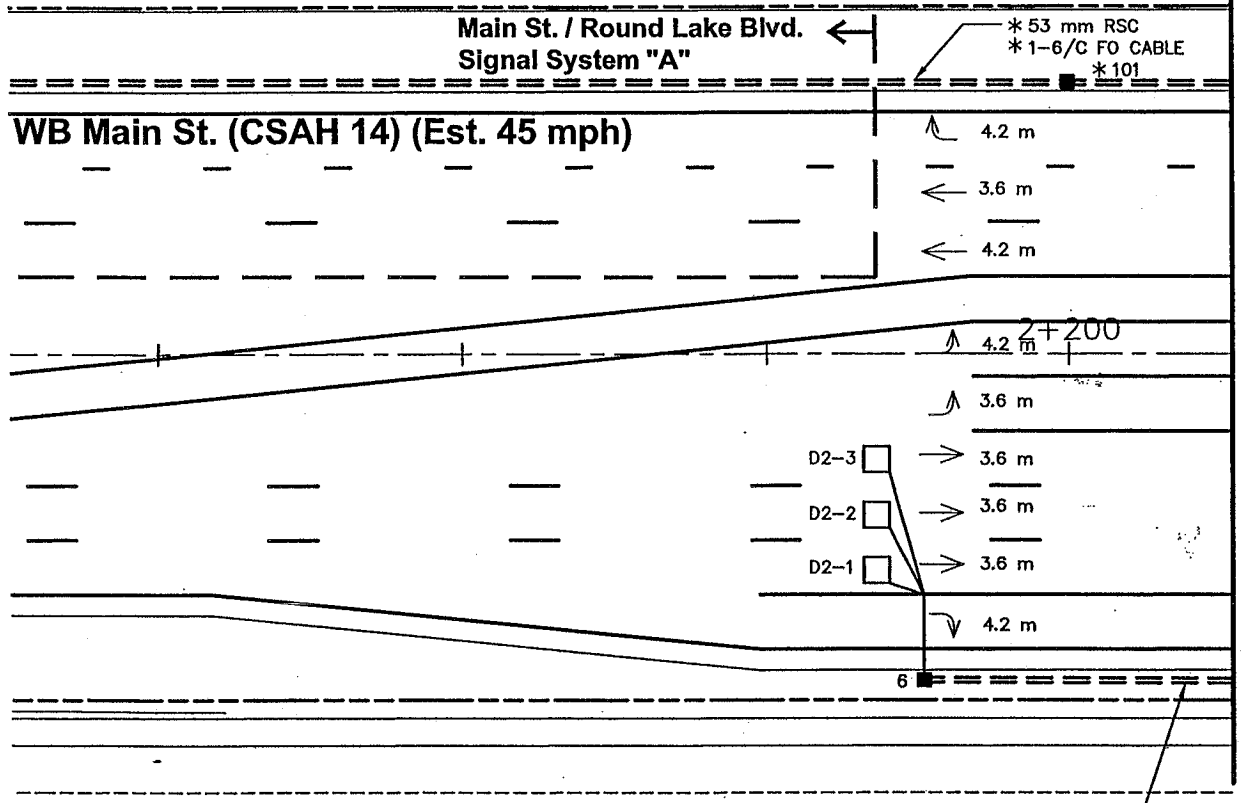
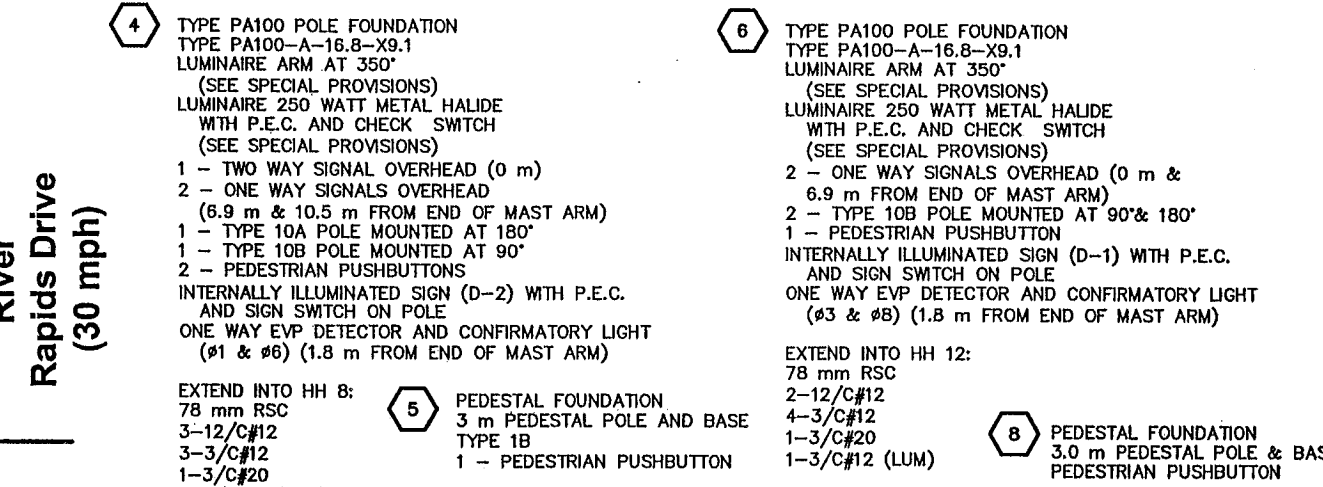
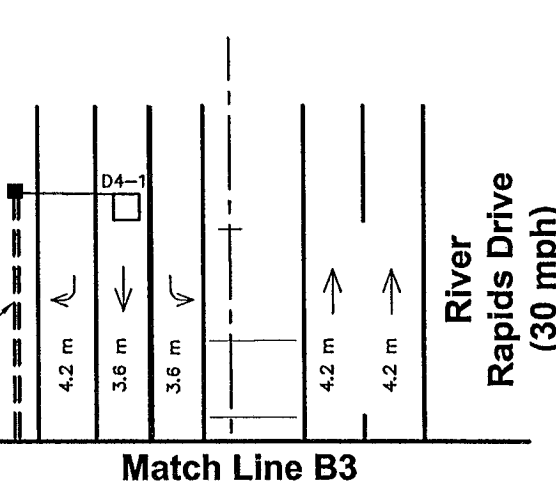
EXTEND INTO HH 12:
78 mm RSC
2-12/C#12
4-3/C#12
1-3/C#20
1-3/C#12 (LUM)

2 PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
TYPE 1B
1 - PEDESTRIAN PUSHBUTTON

7 PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE & BASE
PEDESTRIAN PUSHBUTTON

5 PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
TYPE 1B
1 - PEDESTRIAN PUSHBUTTON

8 PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE & BASE
PEDESTRIAN PUSHBUTTON



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 INTO HH 7:
53 mm RSC
1-3/C#12

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)

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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
CHKD. BY: RJK	DWG. NAME: 1-LAY2	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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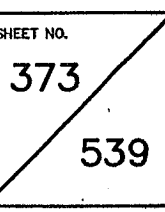
Robert J. Green

DATE: 12/21/99 MINN. REG. NO. 22793

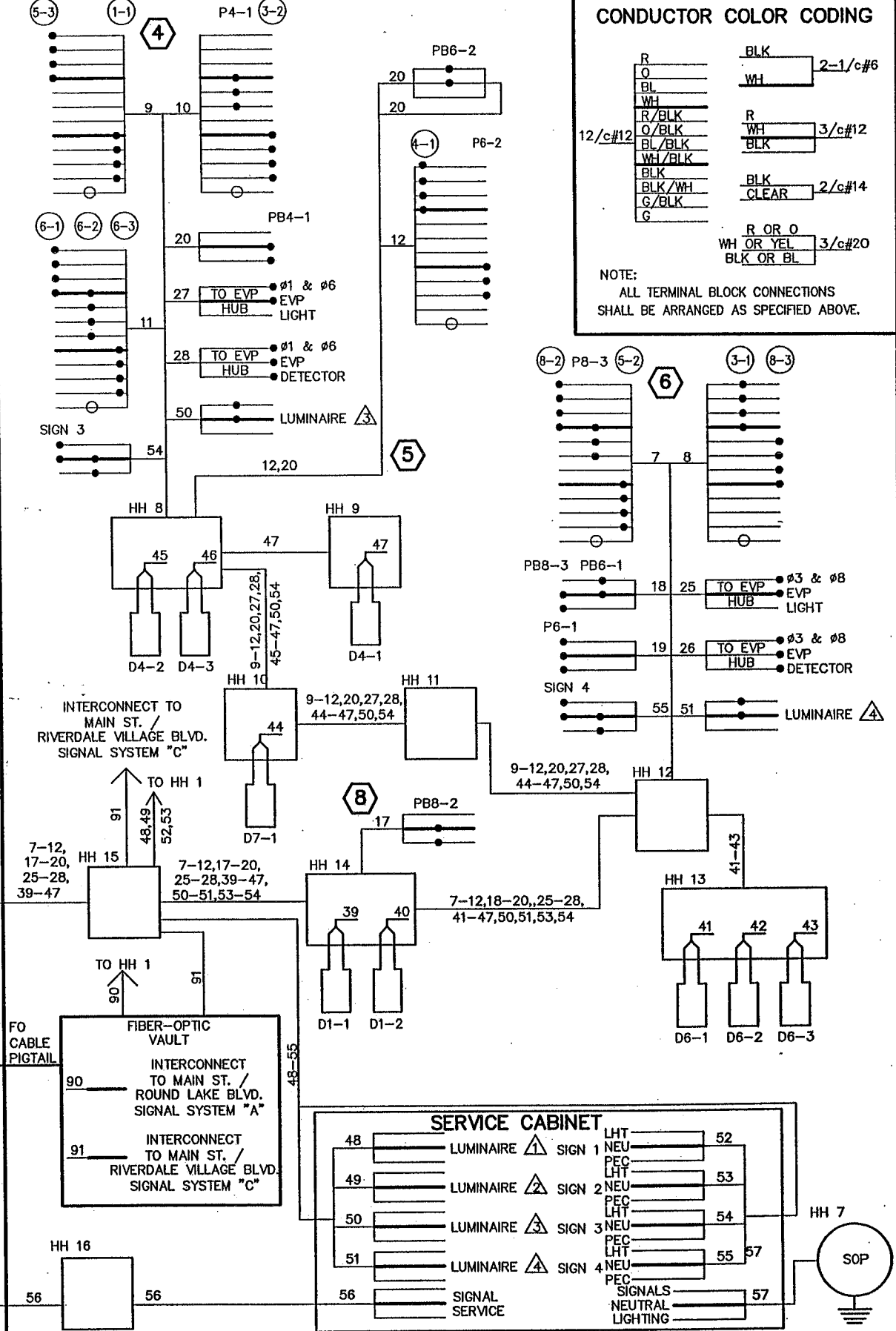
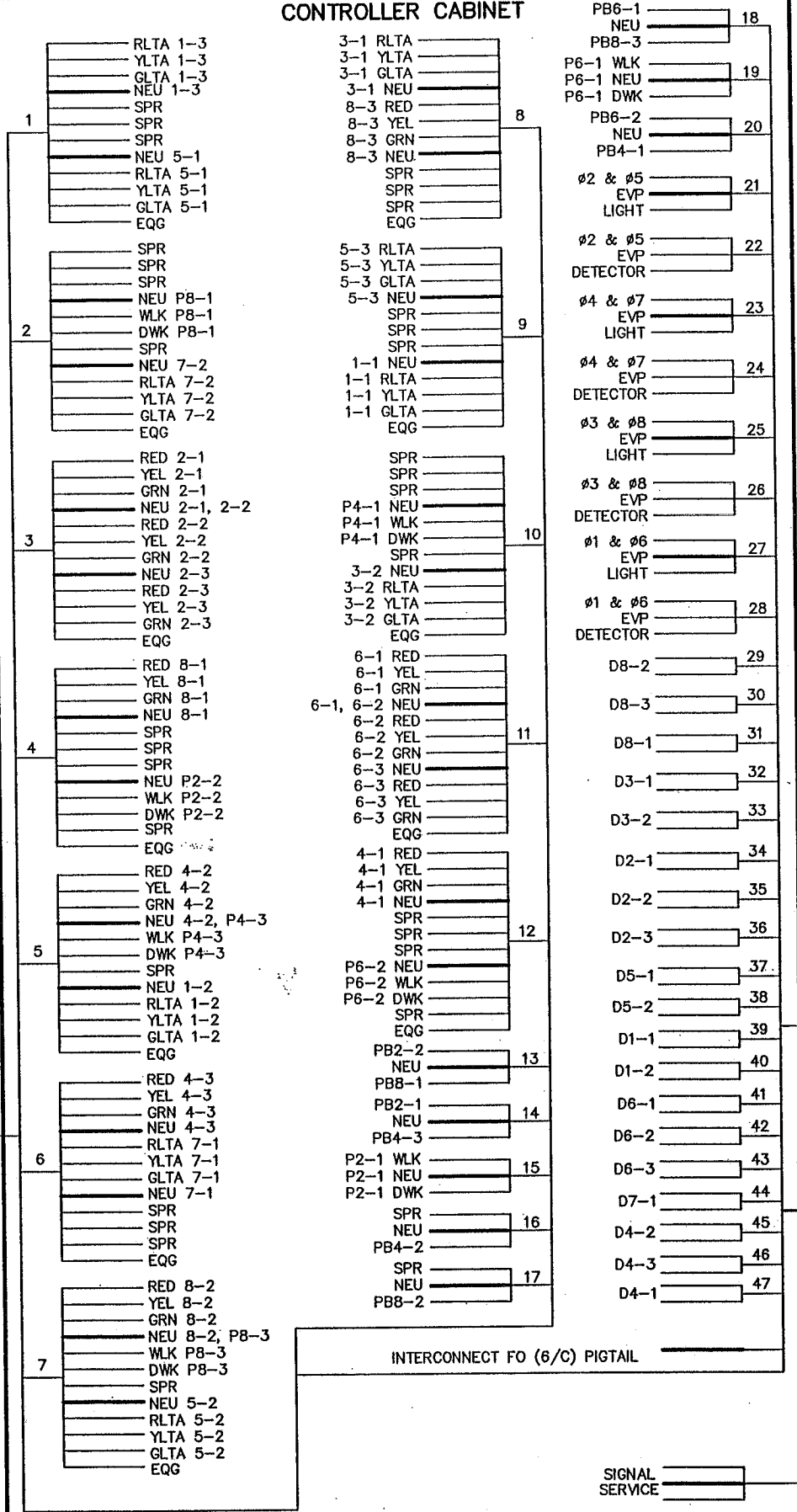
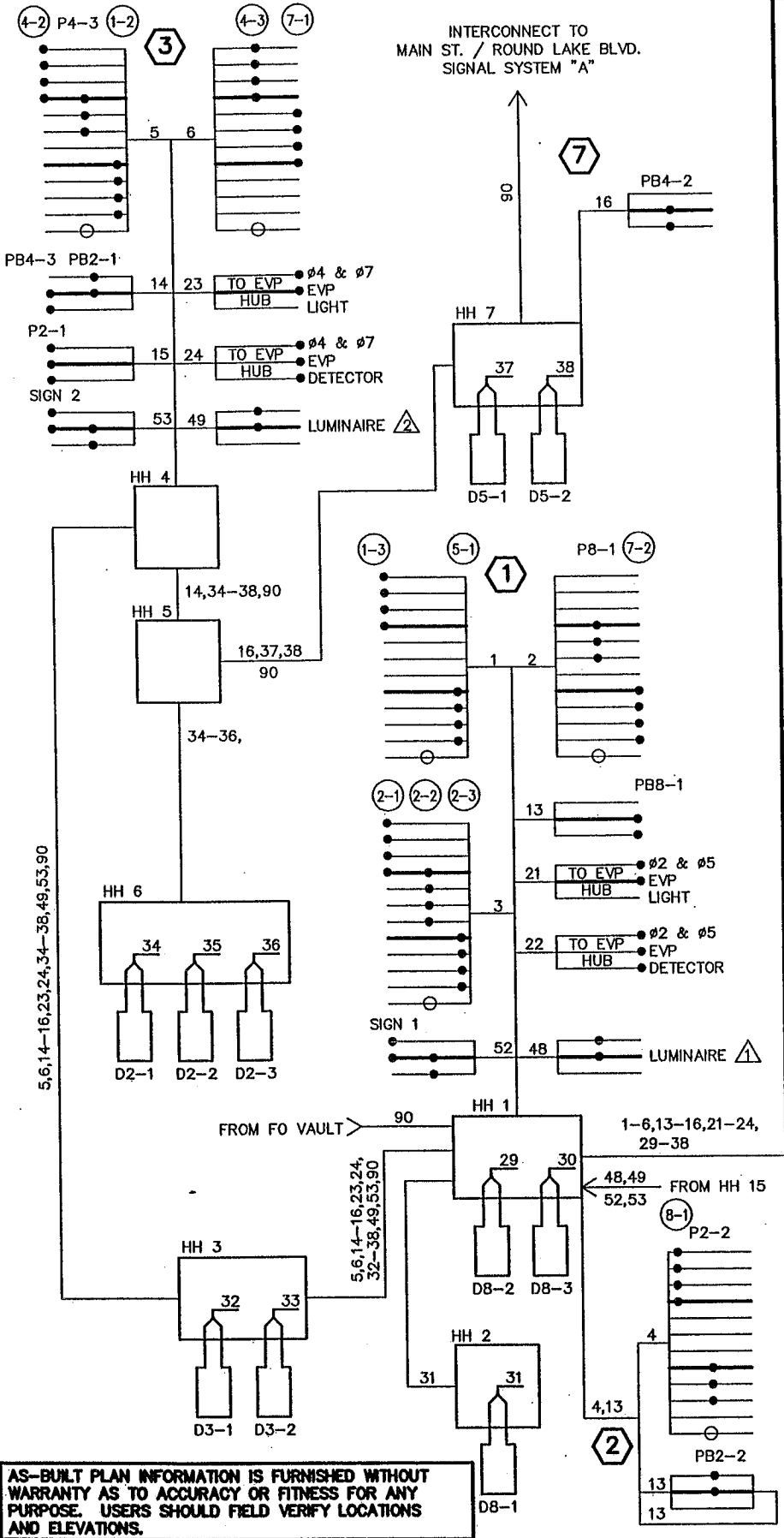
MAIN STREET/T.H. 242 RECONSTRUCTION TRAFFIC SIGNAL SYSTEM "B"
MAIN ST. (CSAH 14) / RIVER RAPIDS DRIVE INTERSECTION LAYOUT (MATCH LINES)

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	373
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539



PLOT DATE: Jul 13, 2004 8:41am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Item\As-Built\1-wire.dwg



CONDUCTOR COLOR CODING

R	BLK	
O	WH	2-1/c#6
BL		
WH		
R/BLK	R	
O/BLK	WH	3/c#12
BL/BLK	BLK	
WH/BLK		
BLK	BLK	
BLK/WH	CLEAR	2/c#14
G/BLK		
G		
	R OR O	
	WH OR YEL	3/c#20
	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	DESIGN BY: JRN
DRAWN BY: JAS	DWG. NAME: 1-WIRE
CHKD. BY: RJJ	DATE: DECEMBER 21, 1999

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 A. 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

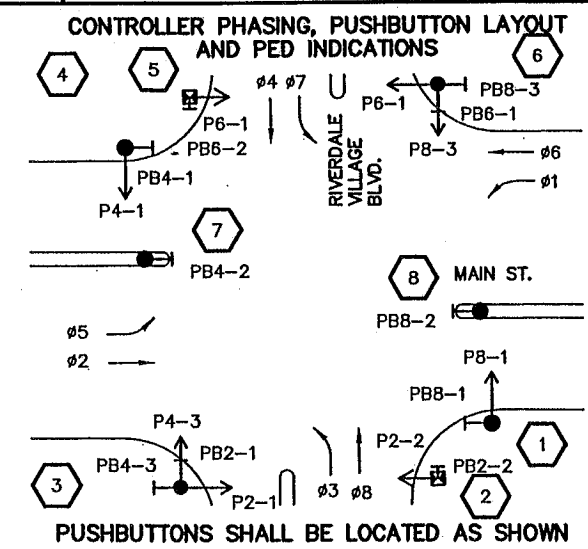
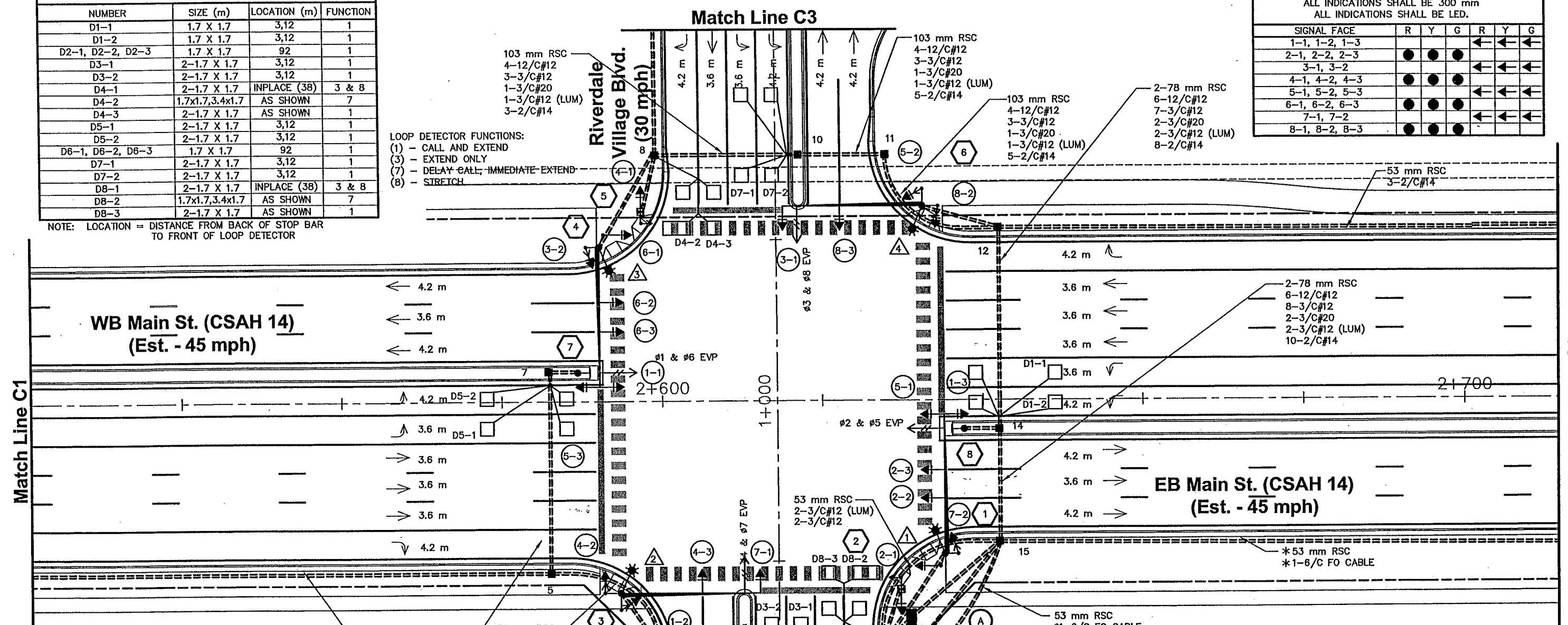
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	374
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	539
S.A.P. 114 - 12Z - 02	

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 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

LOOP DETECTOR FUNCTIONS:
 (1) - CALL AND EXTEND
 (3) - EXTEND ONLY
 (7) - DELAY CALL, IMMEDIATE EXTEND
 (8) - STRETCH



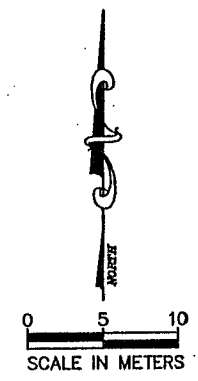
SIGNAL SYSTEM OPERATION

- 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".



PLOT DATE: Jul 06, 2004 5:10pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\2-Lay.DWG

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

CHKD. BY:
RJG

DWG. NAME:
2-LAY

DATE:
DECEMBER 21, 1999



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 "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

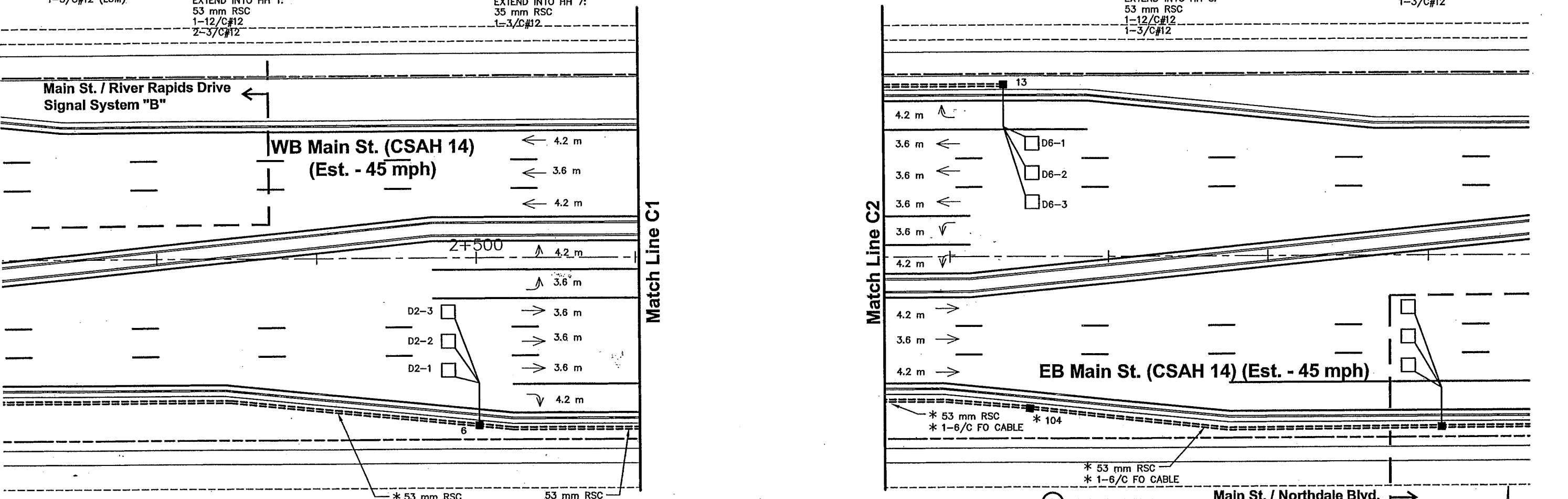
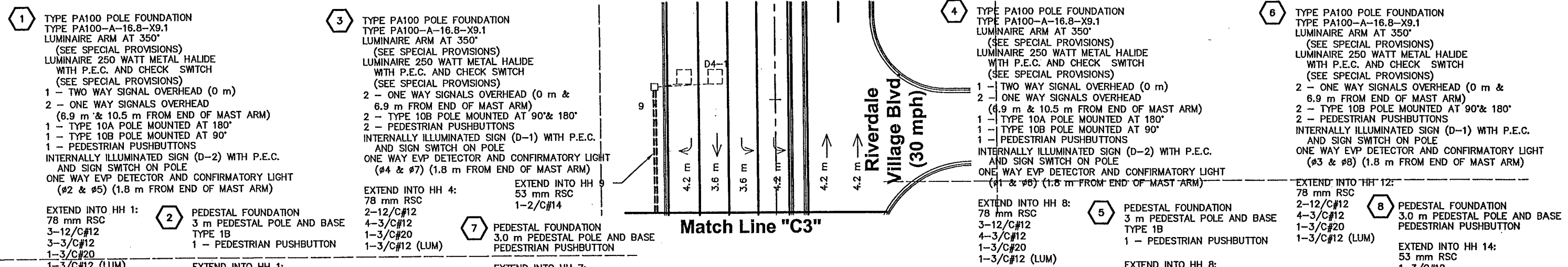
S.A.P. 114 - 127 - 02

SHEET NO.
375

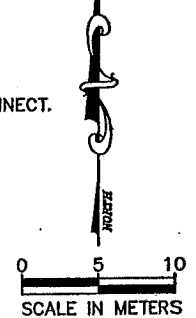
539

-ESUM
-ALIW
-BASE
-LNW

PLOT DATE: Jul 13, 2004 8:43am DISK FILE NAME: (15.06) R:\33889\33889028\SIGNALS\main\As-Built\2-lay2.dwg



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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
CHKD. BY: RJG	DWG. NAME: 2-LAY2
DATE: DECEMBER 21, 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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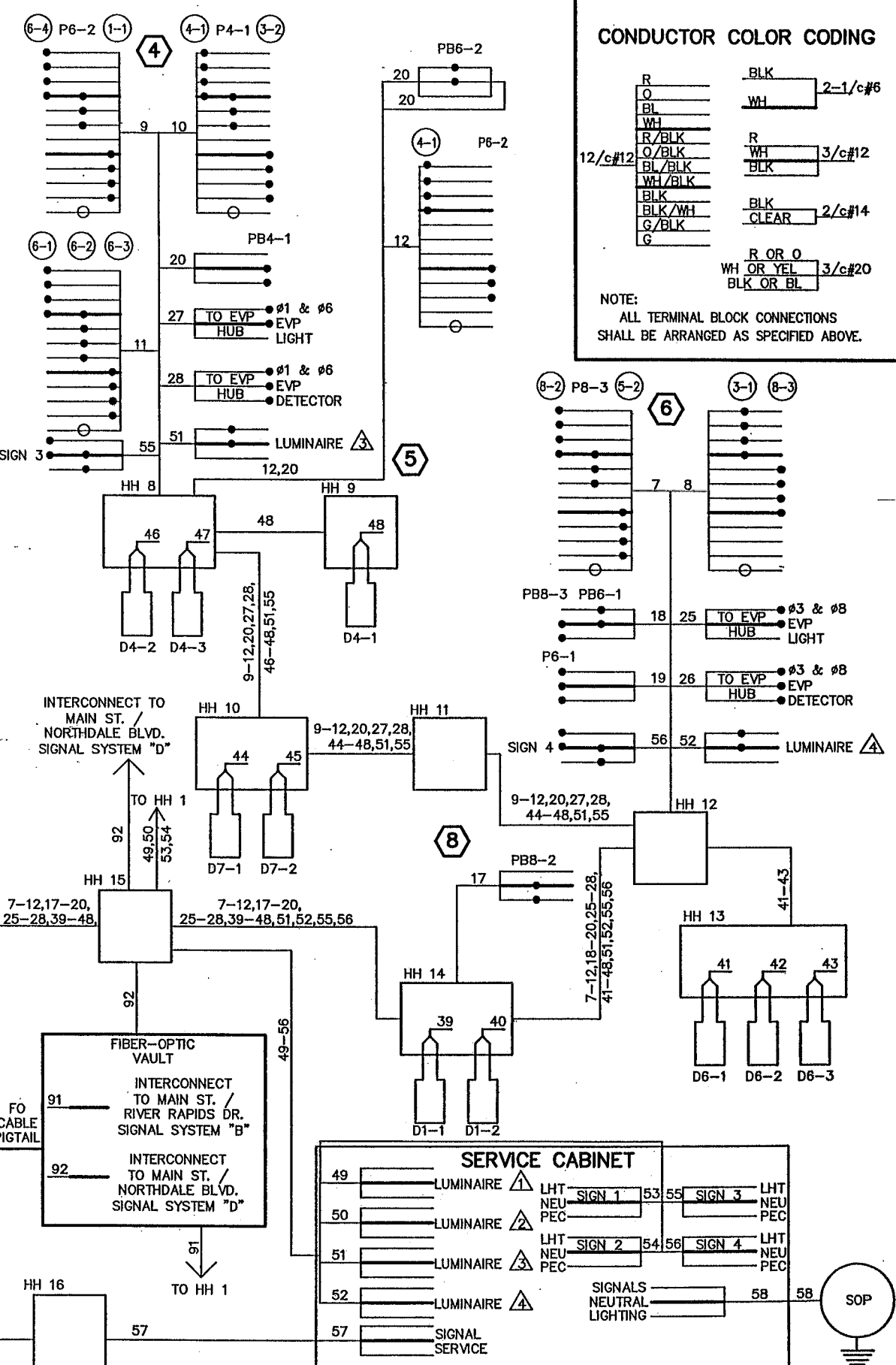
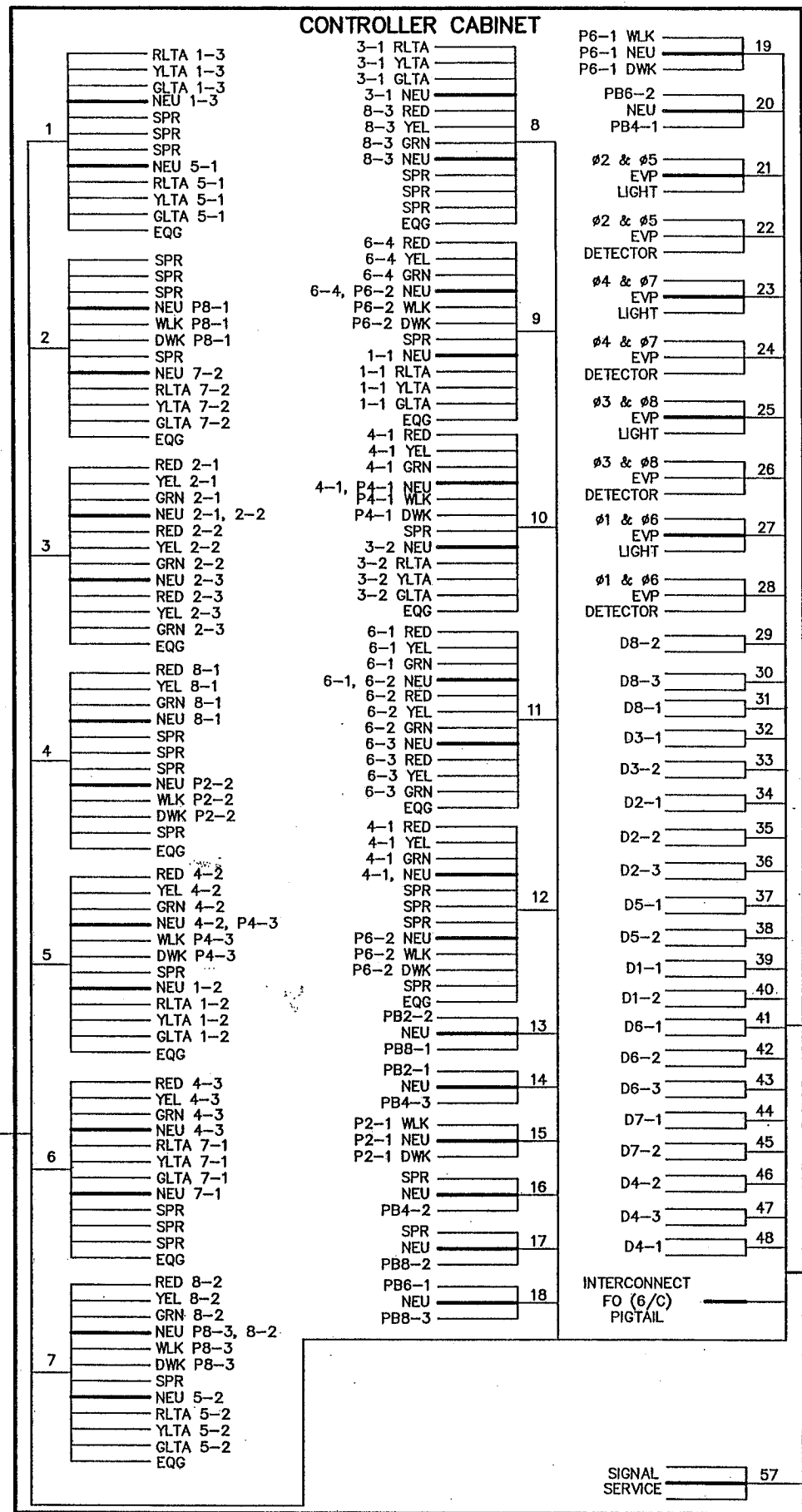
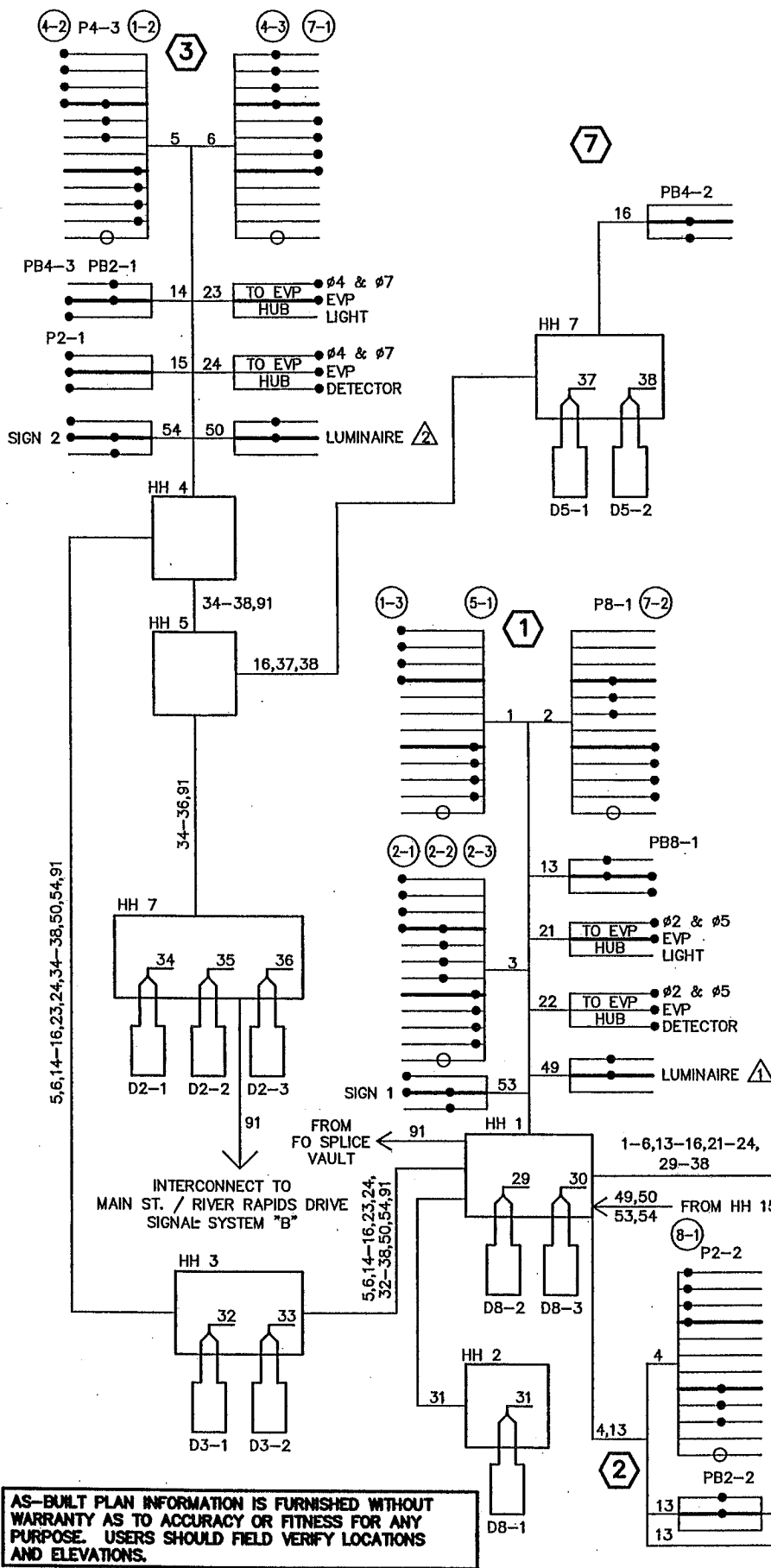
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Robert A. Green
DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION TRAFFIC SIGNAL SYSTEM "C"
MAIN ST. (CSAH 14) / RIVERDALE VILLAGE BLVD. INTERSECTION LAYOUT (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 8:52am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\2-wire.dwg



CONDUCTOR COLOR CODING

R	BLK	
O	WH	2-1/c#6
BL		
WH	R	
R/BLK	WH	3/c#12
O/BLK	BLK	
BL/BLK		
WH/BLK	BLK	
BLK	BLK	
BLK/WH	CLEAR	2/c#14
G/BLK		
G		
	R OR O	
	WH OR YEL	3/c#20
	BLK OR BL	

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	DESIGN BY: JRN
DRAWN BY: JAS	DWG. NAME: 2-WIRE
CHECKED BY: RJG	DATE: DECEMBER 21, 1999



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Robert A. 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**

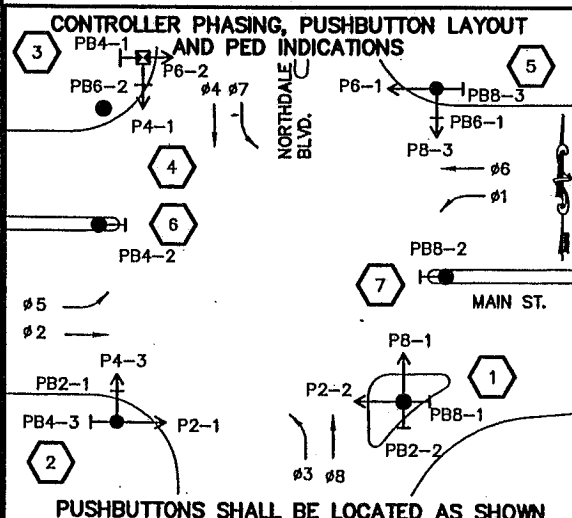
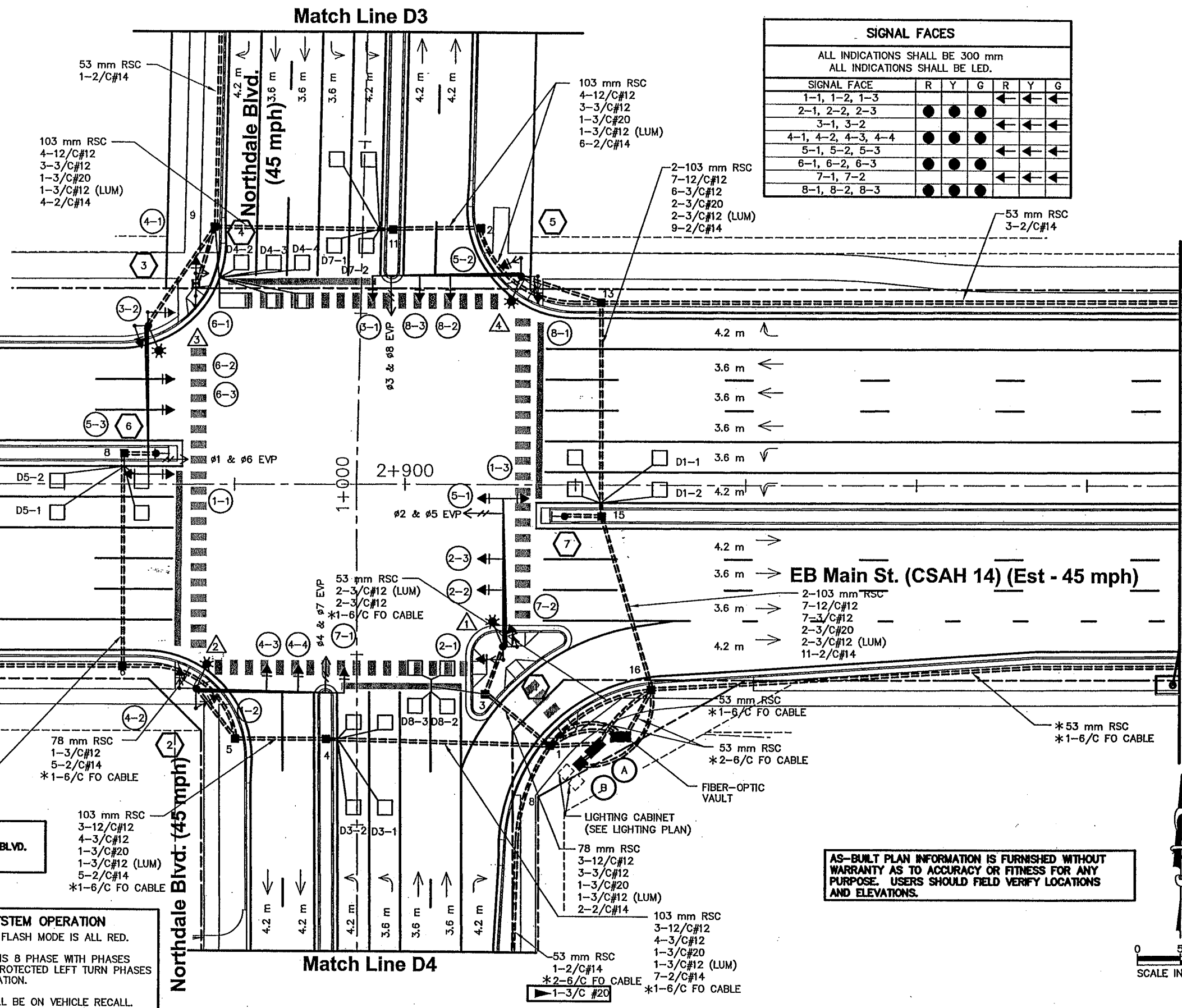
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LOOP DETECTORS (NMC)			
NUMBER	SIZE (m)	LOCATION (m)	FUNCTION
D1-1	2-1.7 X 1.7	3,12	1
D1-2	2-1.7 X 1.7	3,12	1
D2-1, D2-2, D2-3	1.7 X 1.7	92	1
D3-1	2-1.7 X 1.7	3,12	1
D3-2	2-1.7 X 1.7	3,12	1
D4-1	2-1.7 X 1.7	92	3 & 8
D4-2	1.7x1.7,3.4x1.7	AS SHOWN	7
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	●	●	●			

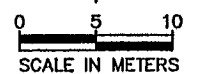


METER ADDRESS:
MAIN ST. / NORTHDAL BLVD.
SOUTHEAST QUADRANT

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.



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 HANDSILE 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
CHKD. BY: RJG	DWG. NAME: 3-LAY	
DATE: DECEMBER 21, 1999		

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

BRW
A DAMES & MOORE GROUP COMPANY

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.

DATE: 7/17/04 MINN. REG. NO. 42828

**MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "D"**
MAIN ST. (CSAH 14) / NORTHDAL BLVD.
INTERSECTION LAYOUT

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	378a
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

RIPE
ESUM
ALIW
BASE
LNW

PLOT DATE: Jul 07, 2004 9:50am
DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\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)

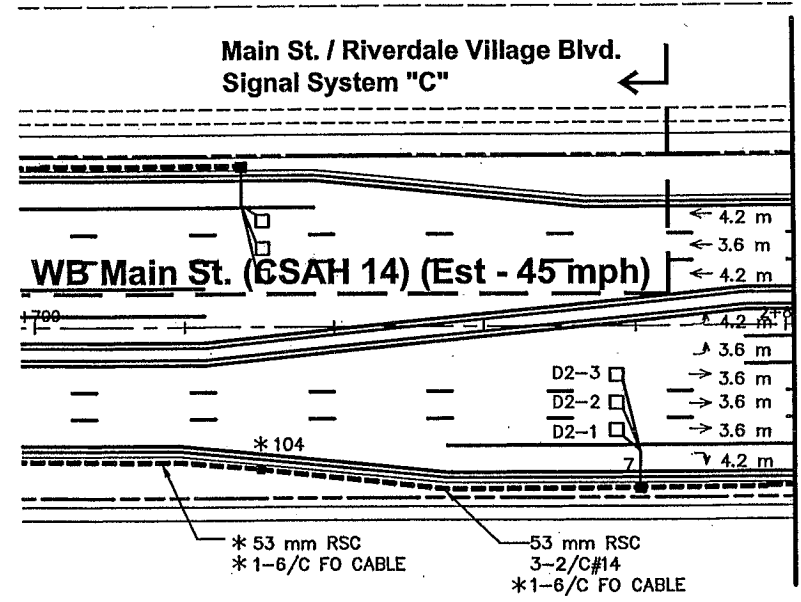
- 3 TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
1 - TWO WAY SIGNAL OVERHEAD (0 m)
2 - ONE WAY SIGNALS OVERHEAD
(6.9 m & 10.5 m FROM END OF MAST ARM)
1 - TYPE 10A 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)

- 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)

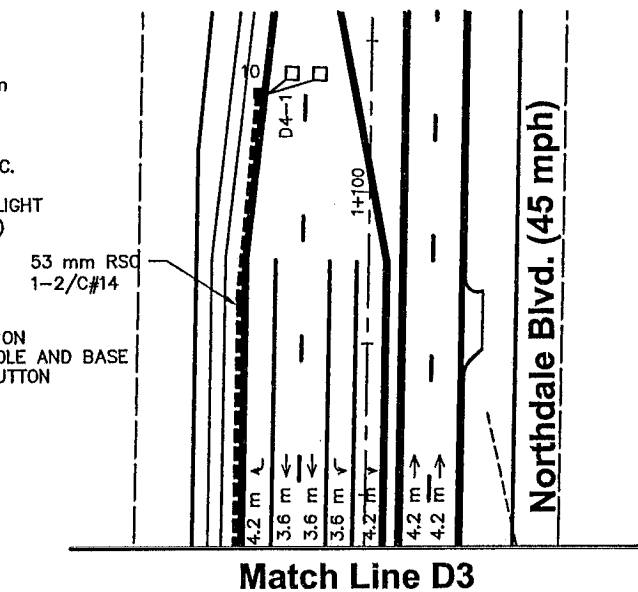
- 6 PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE AND BASE
PEDESTRIAN PUSHBUTTON
- EXTEND INTO HH 8:
53 mm RSC
1-3/C#12

- 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

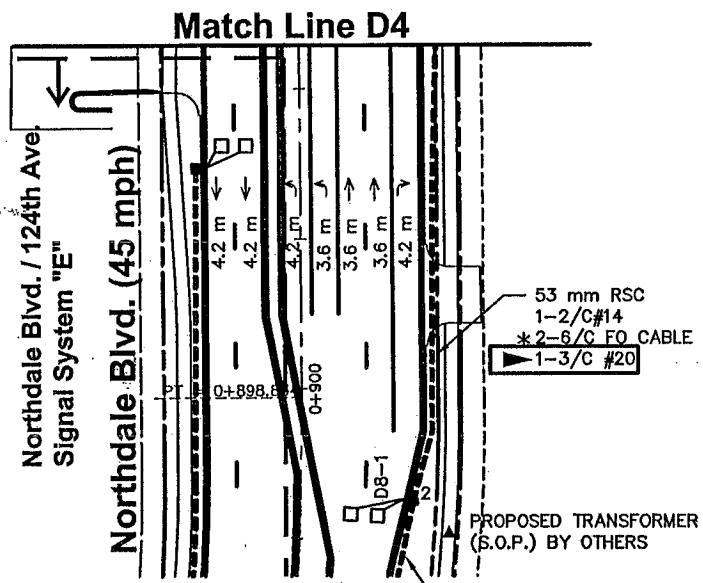
- 7 PEDESTAL FOUNDATION
3.0 m PEDESTAL POLE AND BASE
PEDESTRIAN PUSHBUTTON
- EXTEND INTO HH 15:
53 mm RSC
1-3/C#12



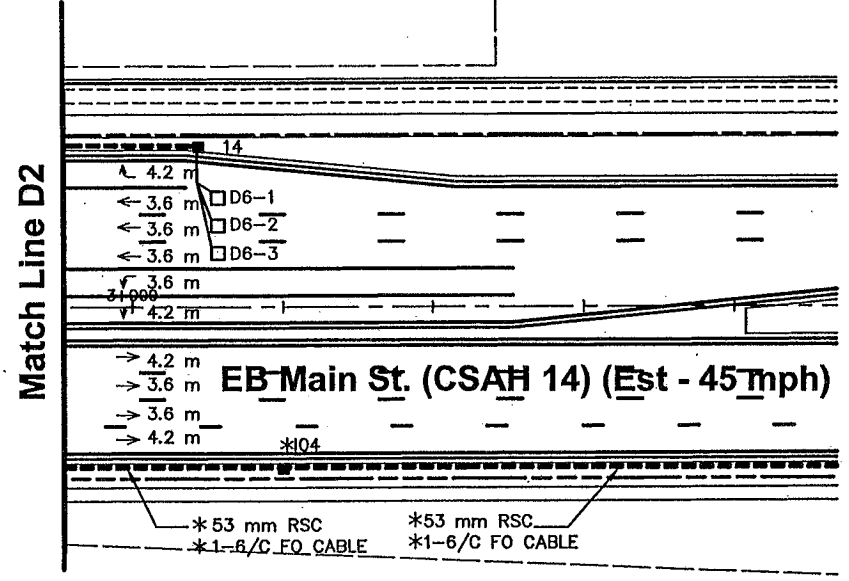
Match Line D1



Match Line D3



Match Line D4

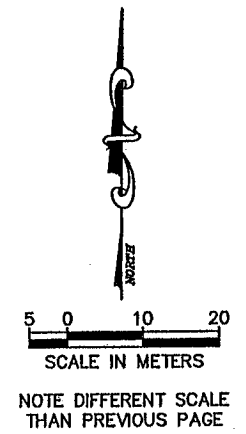


Match Line D2

- 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
- BETWEEN SERVICE AND CONTROLLER CABINET:
35 mm RSC, 3-1/C#6
- * 1-6/C FO CABLE, * 1-3/C#20

- 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)

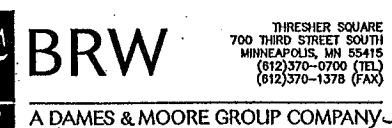
- NOTES:
- SEE SPECIAL PROVISIONS FOR ANOKA COUNTY FURNISHED MATERIALS.
 - EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
 - EACH PEDESTRIAN SIGNAL FACE SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
 - LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 - HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
 - LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS-LINKED POLYETHYLENE (XLP) IN 21mm NMC, SEE SPECIAL PROVISIONS AND DETAILS.
 - 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.
 - SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
 - SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
 - * DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).
 - REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "D".
 - 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.)



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	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	JRN	1/7/2000	MOD. REQ. #36: REVISED MENARDS 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
CHCKD. BY: RJG	DWG. NAME: 3-LAY2	
DATE: DECEMBER 21, 1999		



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: 7/7/04 MINN. REG. NO. 42828

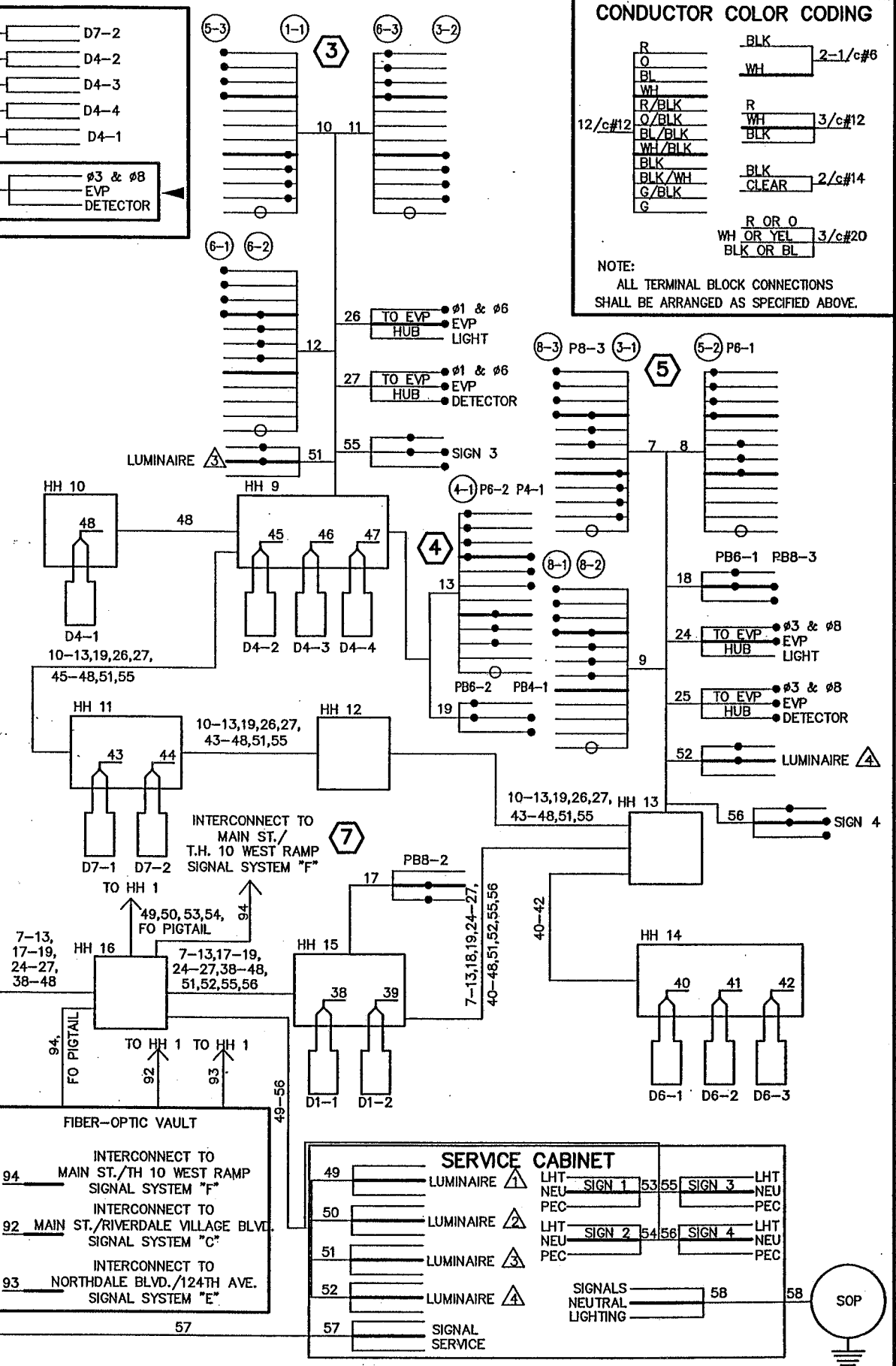
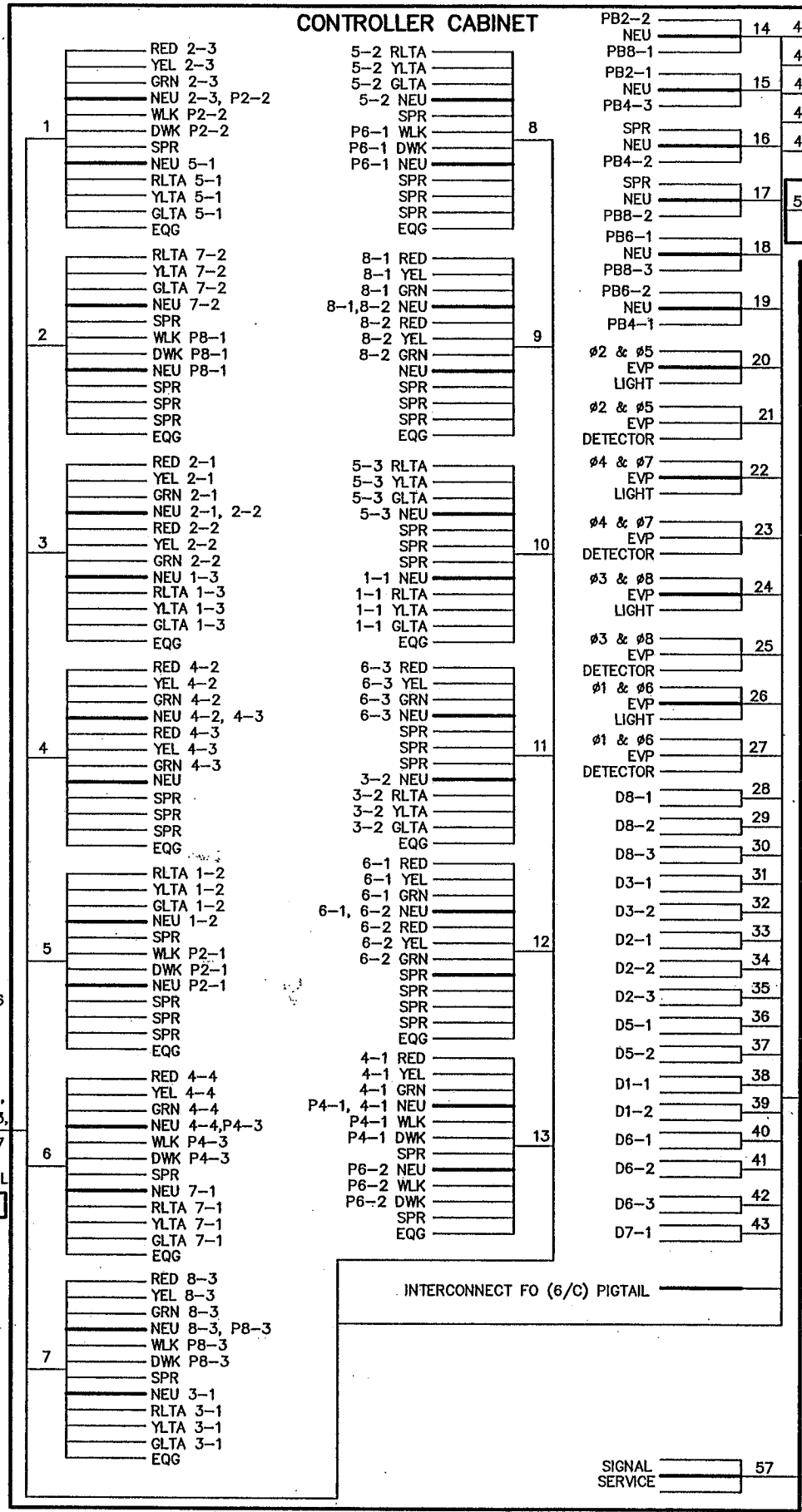
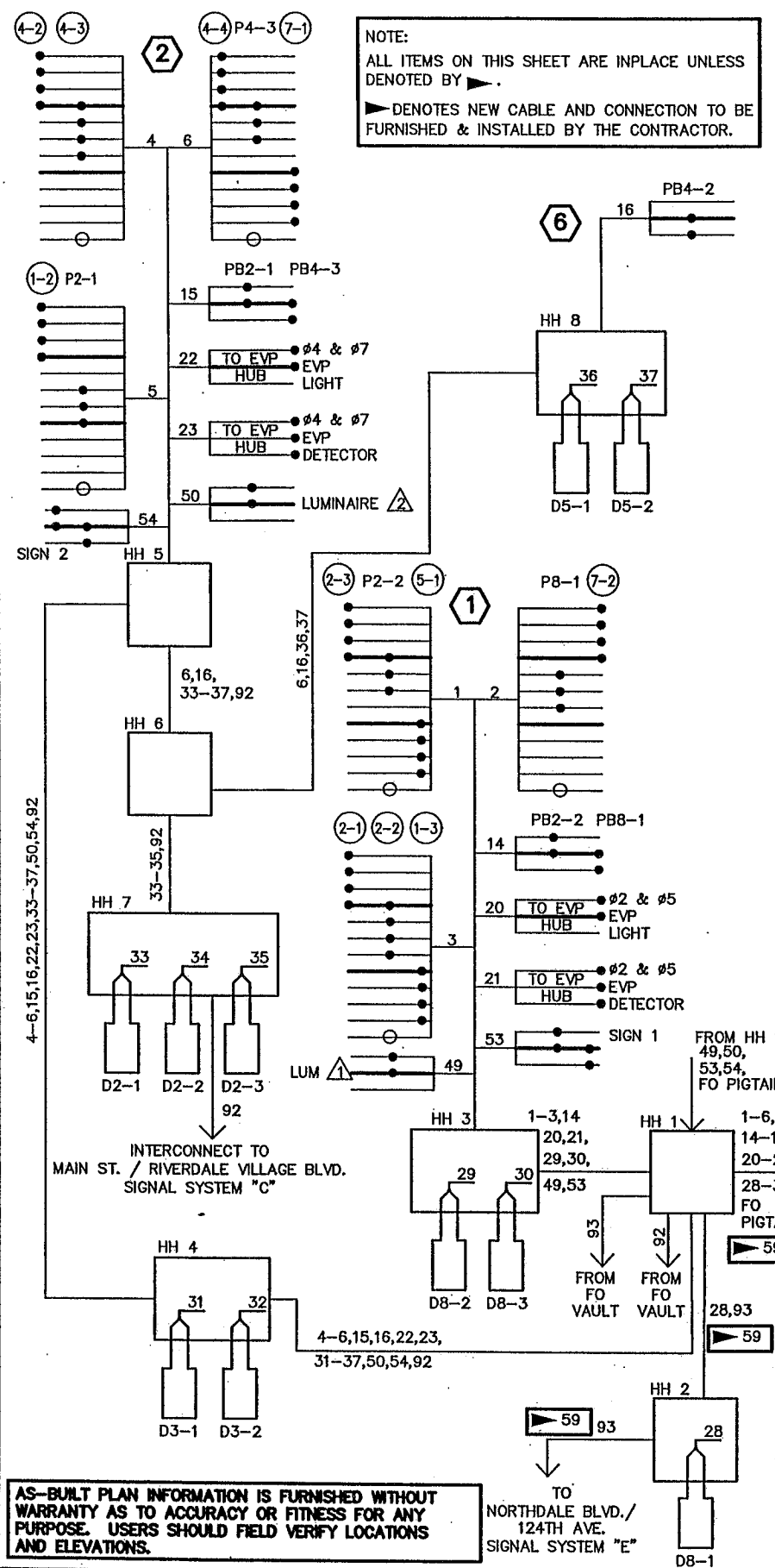
MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM "D"
MAIN ST. (CSAH 14) / NORTHDAL BLVD.
INTERSECTION LAYOUT (MATCH LINES)

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

PLOT DATE: Jul 13, 2004 9:06am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\3-wire_MOD123-REV.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	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
CHKD. BY:	RJG
DWG. NAME:	3-WIRE
DATE:	DECEMBER 21, 1999

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: 10/21/00 MINN. REG. NO. 42828

MAIN STREET/T.H. 242 RECONSTRUCTION TRAFFIC SIGNAL SYSTEM "D"
MAIN ST. (CSAH 14) / NORTHDAL BLVD.
FIELD WIRING DIAGRAM

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	380a
S.A.P. 02 - 618 - 24	539
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: Jul 07, 2004 10:27am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\4-lay_MDD123-REV.dwg

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

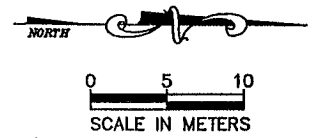
NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR TO FRONT OF LOOP DETECTOR

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	●	●	●	←	←	←

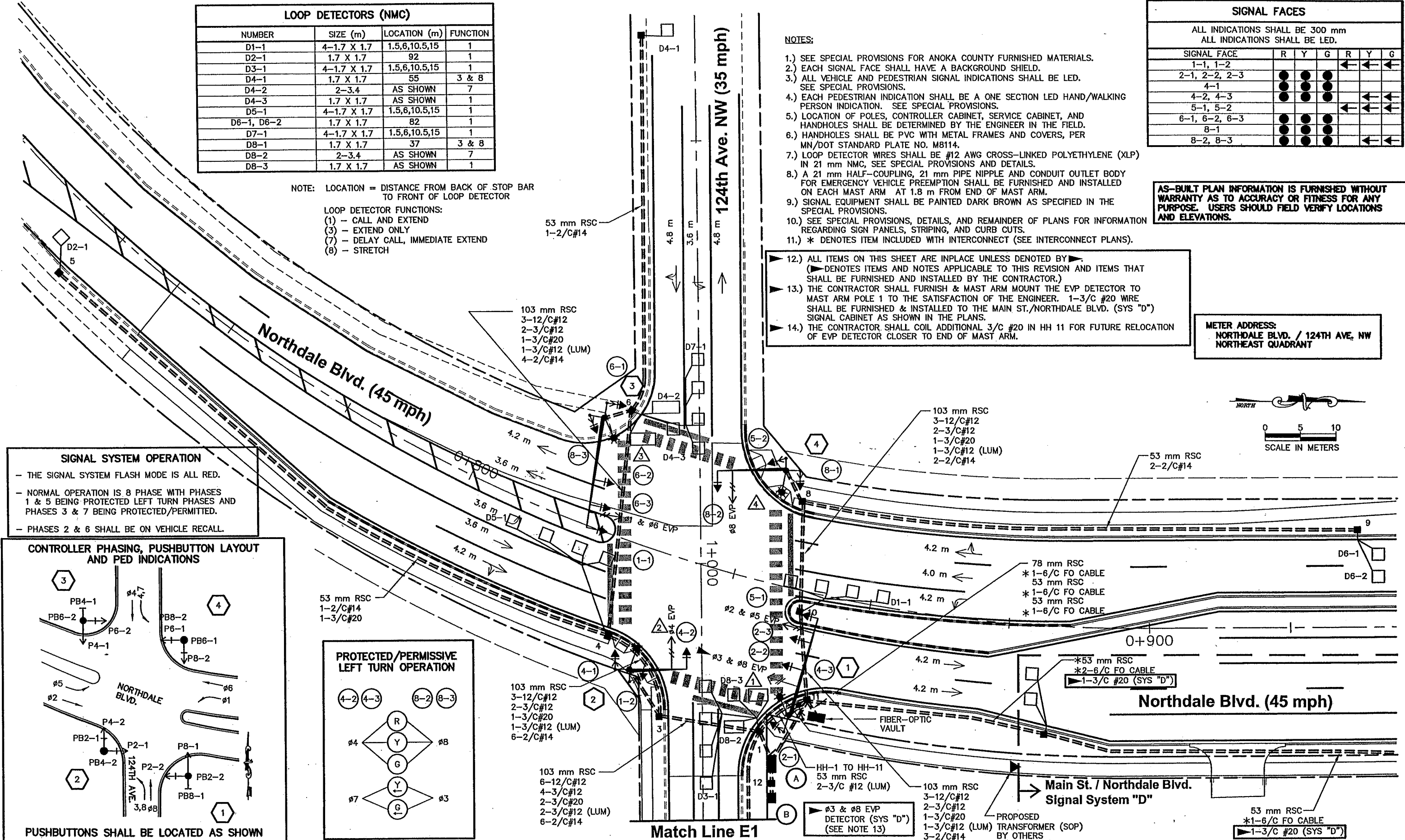
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

METER ADDRESS:
NORTHDALE BLVD. / 124TH AVE. NW
NORTHEAST QUADRANT



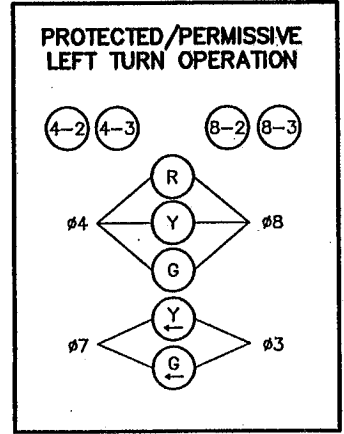
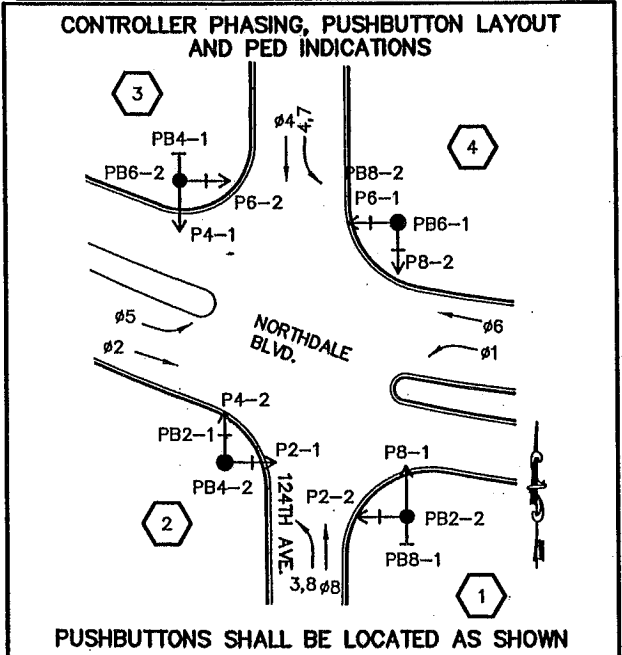
- NOTES:
- SEE SPECIAL PROVISIONS FOR ANOKA COUNTY FURNISHED MATERIALS.
 - EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
 - EACH PEDESTRIAN INDICATION SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
 - LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 - HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
 - LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS-LINKED POLYETHYLENE (XLP) IN 21 mm NMC, SEE SPECIAL PROVISIONS AND DETAILS.
 - 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.
 - SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
 - SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
 - * DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).

- ALL ITEMS ON THIS SHEET ARE IN PLACE UNLESS DENOTED BY (▶) DENOTES ITEMS AND NOTES APPLICABLE TO THIS REVISION AND ITEMS THAT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 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.
- THE CONTRACTOR SHALL COIL ADDITIONAL 3/C #20 IN HH 11 FOR FUTURE RELOCATION OF EVP DETECTOR CLOSER TO END OF MAST ARM.



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.



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
 CHECKED BY: RJG
 DWG. NAME: 4-LAY
 DATE: DECEMBER 21, 1999



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

BRW
 THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

A DAMES & MOORE GROUP COMPANY

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 329.02 TO 329.16.

DATE: 7/14/04 MINN. REG. NO. 428828

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

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: 103 mm RSC
 6-12/C#12
 4-3/C#12
 2-3/C#20
 3-2/C#14
 * 1-6/C FO CABLE

EXTEND INTO HH 12: 103 mm RSC
 6-12/C#12
 4-3/C#12
 2-3/C#20
 10-2/C#14

EXTEND INTO HH 13: METERED SIGNAL SERVICE
 35 mm RSC
 3-1/C#6

STUB OUT 78 mm RSC FROM CABINET TO SOUTH
 (THREAD AND CAP BOTH ENDS)

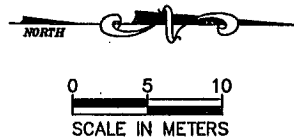
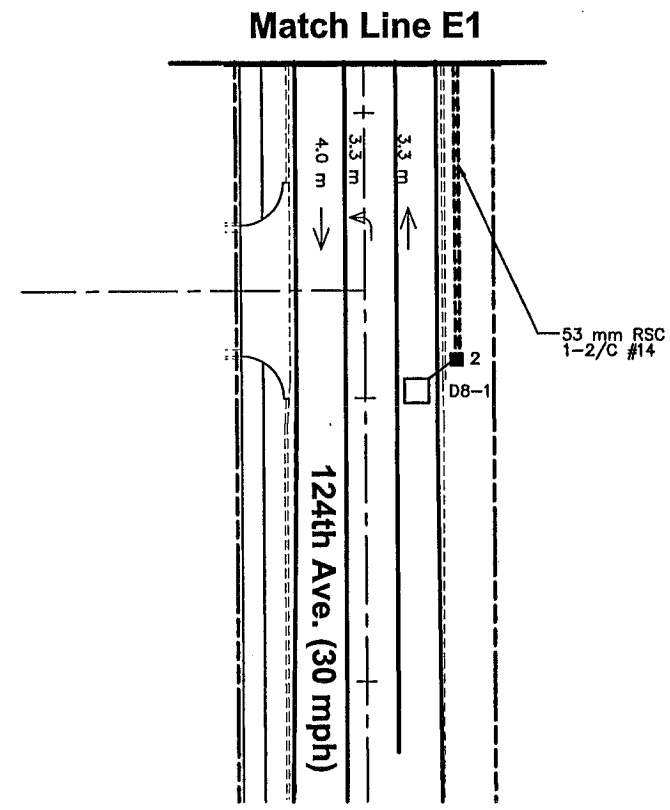
* DENOTES ITEM INCLUDED WITH INTERCONNECT.
 (SEE INTERCONNECT PLANS)

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)



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
CHKD. BY: RJG	DWG. NAME: 4-LAY2	
DATE: DECEMBER 21, 1999		

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

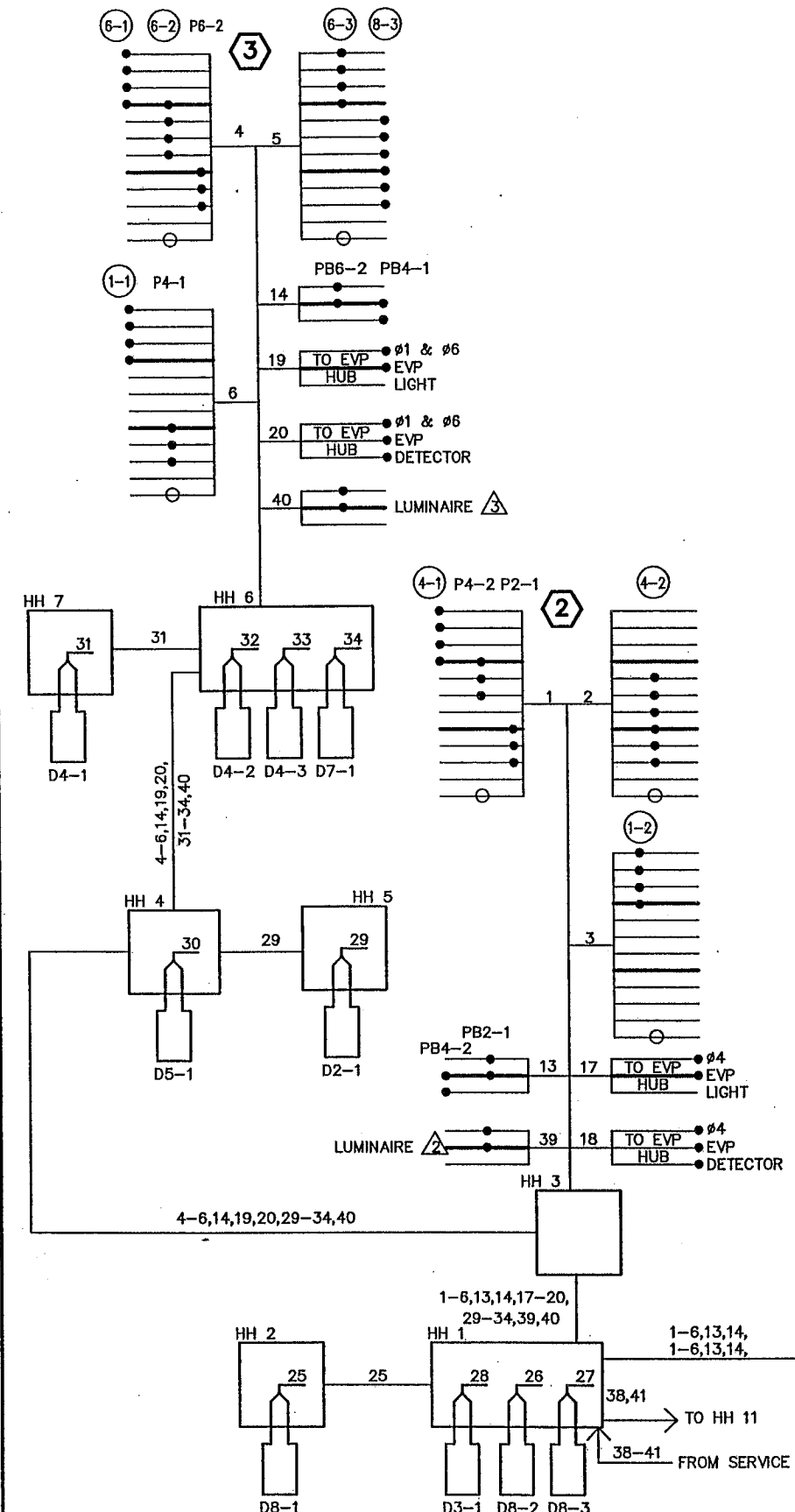
BRW
 A DAMES & MOORE GROUP COMPANY

THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

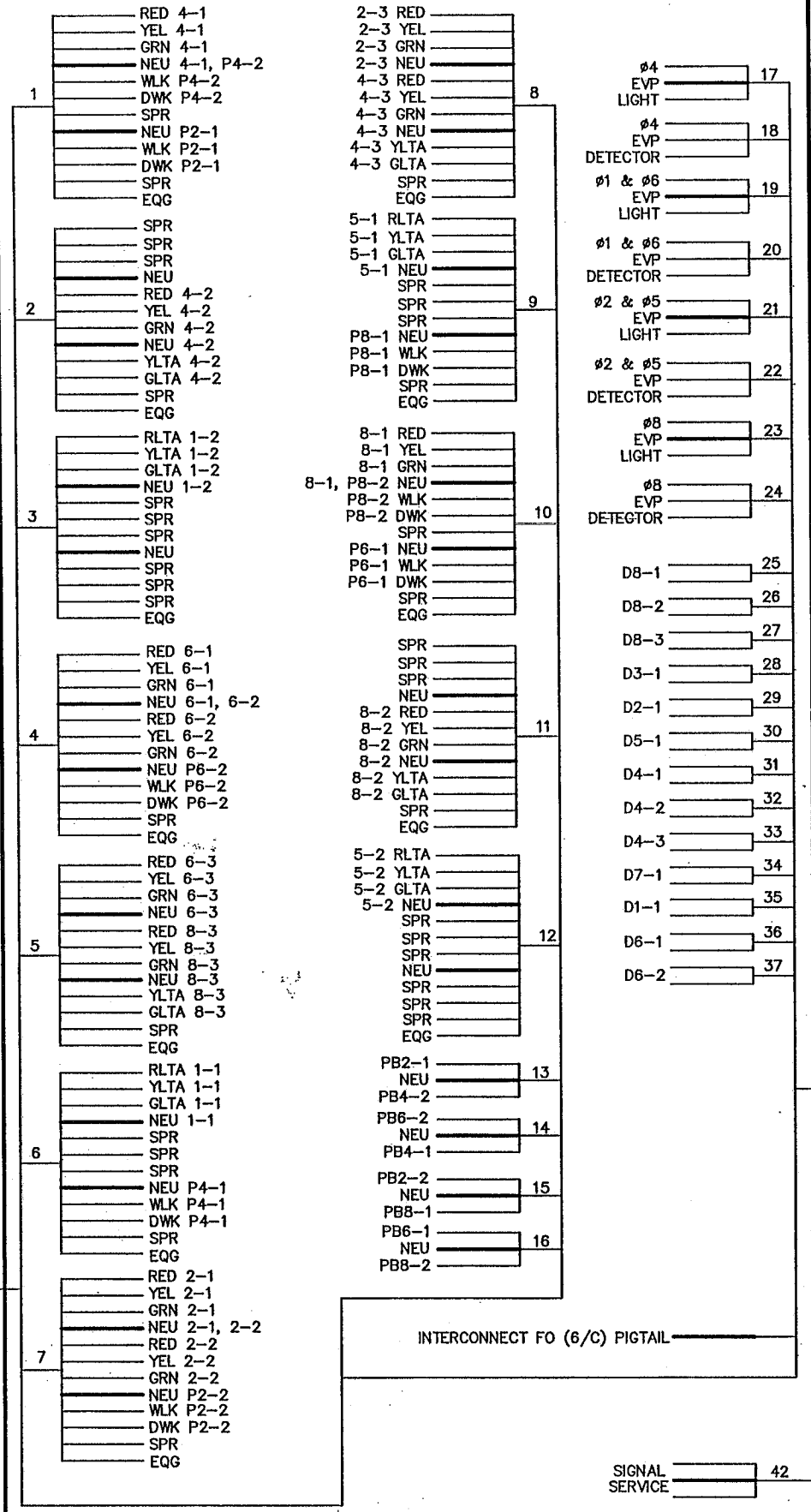
I HEREBY CERTIFY THAT THIS PLAN,
 SPECIFICATION OR REPORT WAS PREPARED BY ME
 OR UNDER MY DIRECT SUPERVISION AND THAT I AM
 A DULY REGISTERED PROFESSIONAL ENGINEER UNDER
 THE STATE OF MINN. STATUTES SECTION 326.02 TO
 326.16.
Robert A. Green
 DATE: 12/21/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION
 TRAFFIC SIGNAL SYSTEM "E"
 NORTHDAL BLVD. / 124TH AVE. NW
 INTERSECTION LAYOUT (MATCH LINES)
 CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	382a
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539



CONTROLLER CABINET

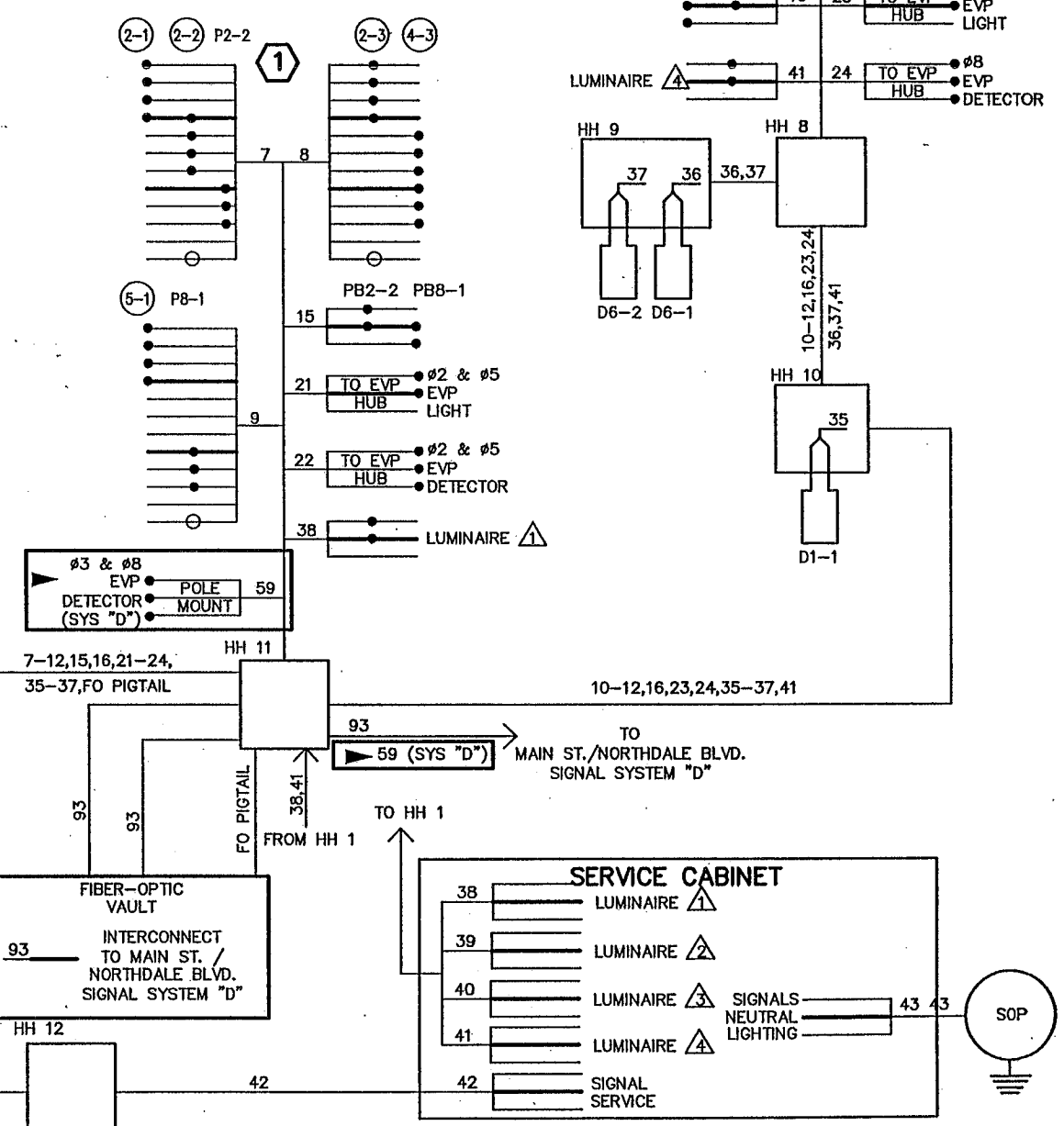


CONDUCTOR COLOR CODING

R	BLK	2-1/c#6
O	WH	
BL		
WH		
R/BLK	R	
O/BLK	WH	3/c#12
BL/BLK	BLK	
WH/BLK		
BLK	BLK	2/c#14
BLK/WH	CLEAR	
G/BLK		
G		
	R OR O	
	WH OR YEL	3/c#20
	BLK OR BL	

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.

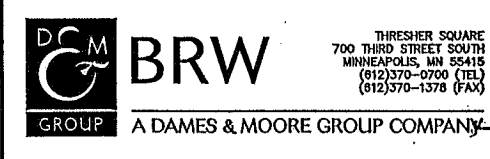
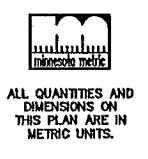
NOTE: ALL ITEMS ON THIS SHEET ARE IN PLACE UNLESS DENOTED BY ►. ► DENOTES NEW CABLE AND CONNECTION TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.



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
CHECKED BY: RJG
DWG. NAME: 4-WIRE
DATE: DECEMBER 21, 1999



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
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

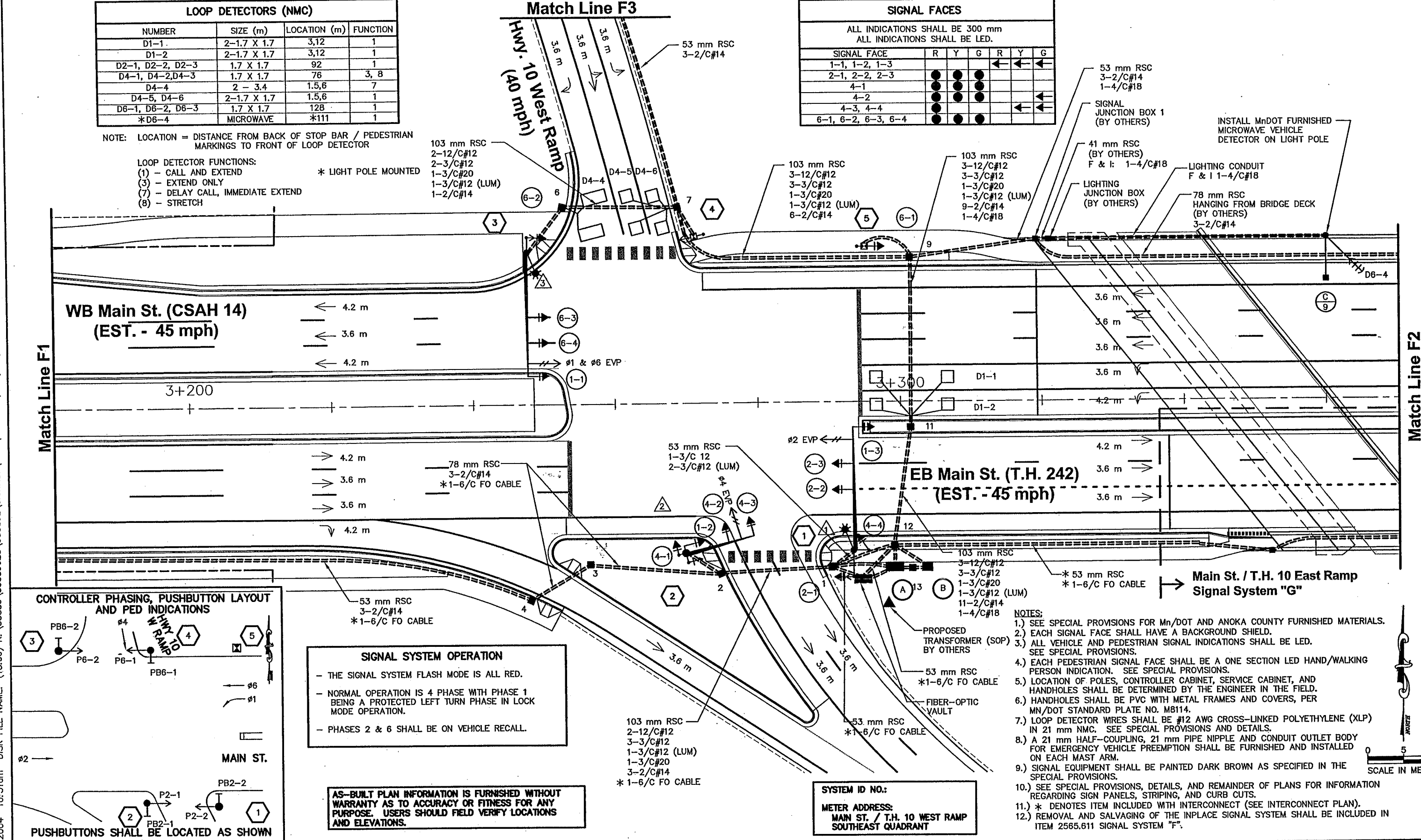
-AL I
ESUM
RIPE
RIPE
BASE
-PLN
LN"

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

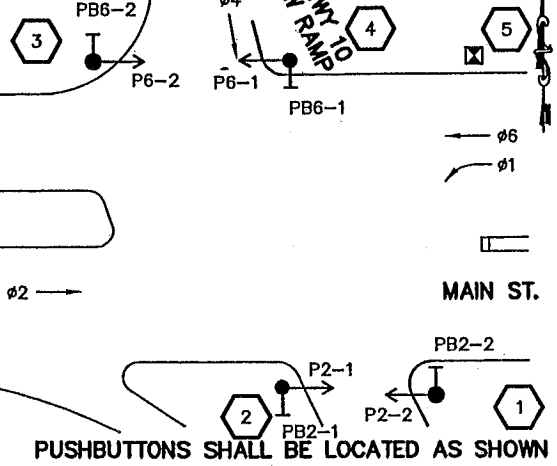
NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR / PEDESTRIAN MARKINGS TO FRONT OF LOOP DETECTOR

- 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	●	●	●			



CONTROLLER PHASING, PUSHBUTTON LAYOUT AND PED INDICATIONS



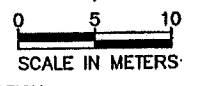
SIGNAL SYSTEM OPERATION

- 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.

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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".



PLOT DATE: Jul 07, 2004 10:51am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\5-lay.dwg

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
CHKD. 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)330-0700 (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 - 136 - 02	S.A.P. 114 - 127 - 02

SHEET NO.
384

539

TRIPLE
-ESUM
-ALI
-BASE
-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 (#2)
(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 (#4)
(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)

- 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
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

- 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°~~
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 (#1 & #6)
(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

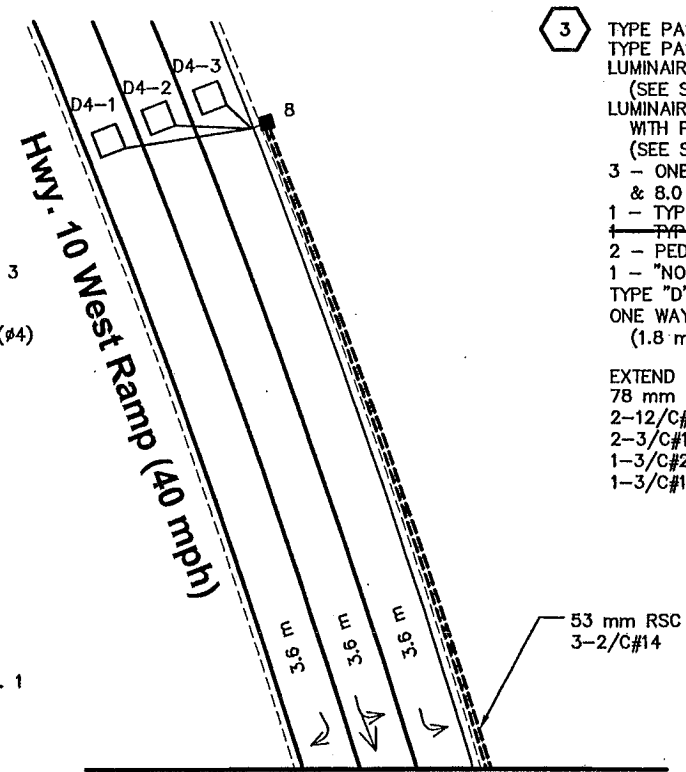
EXTEND INTO HH 13: 35 mm RSC
METERED SIGNAL SERVICE
3-1/C#6

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

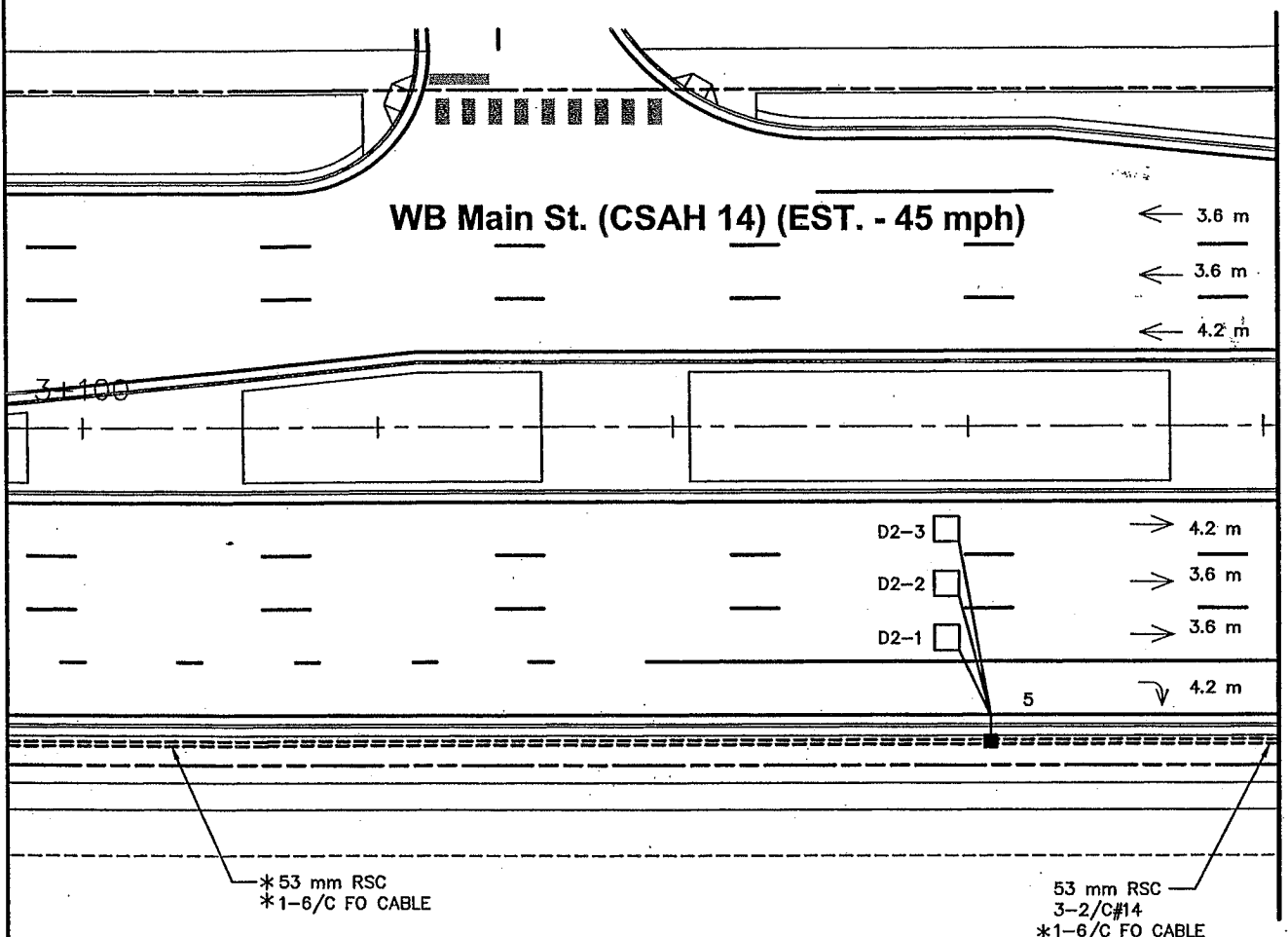
EXTEND INTO HH 12:
UNMETERED STREET LIGHT SERVICE
35 mm RSC
3-3/C#12 (LUM)
UNMETERED ILLUMINATED SIGN SERVICE
1-3/C#12

STUB OUT 53 mm RSC TO SOUTH
(FOR POWER BY CONNEXUS)

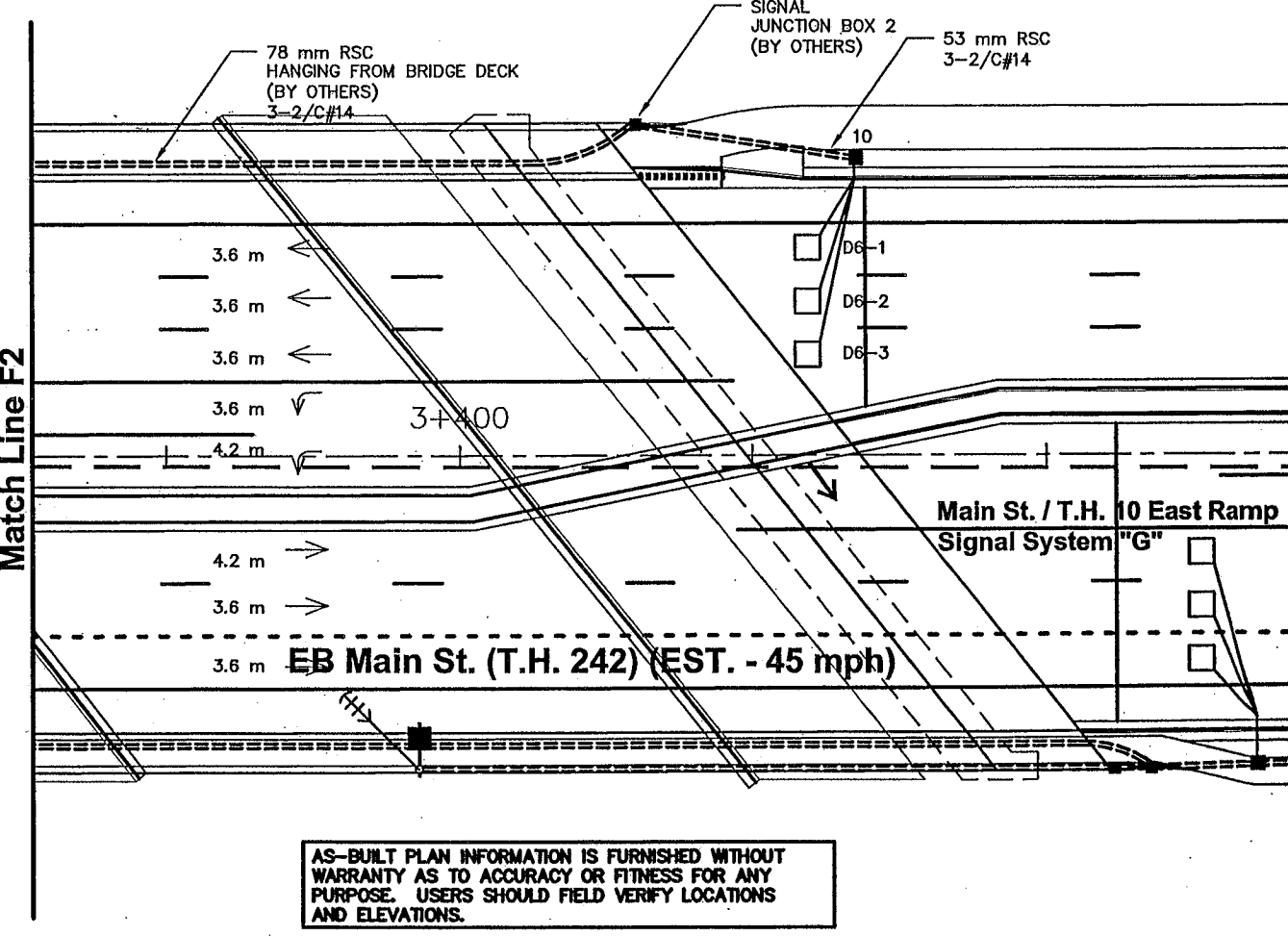


Match Line F3

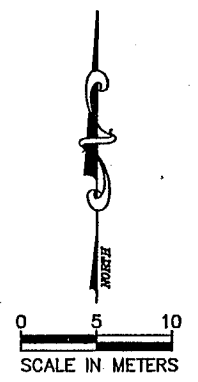
* DENOTES ITEMS INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)



Match Line F1



Match Line F2



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AND ELEVATIONS.

PLOT DATE: Jul 07, 2004 11:04am DISK FILE NAME: (15.06) R: \33889\33889028\33889E\SIGNALS\Main\As-Built\5-Lay2.dwg

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	ADDENDUM POLE FOUNDATION 3: DELETED NOTE
4	JL	7/5/00	MOD. REQ. #59: REVISED MENARDS ENTRANCE
5	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DESIGN BY: JRN
DRAWN BY: JAS	CHKD. BY: RJK
DATE: DECEMBER 21, 1999	DWG. NAME: 5-LAY2

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

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 A. Green

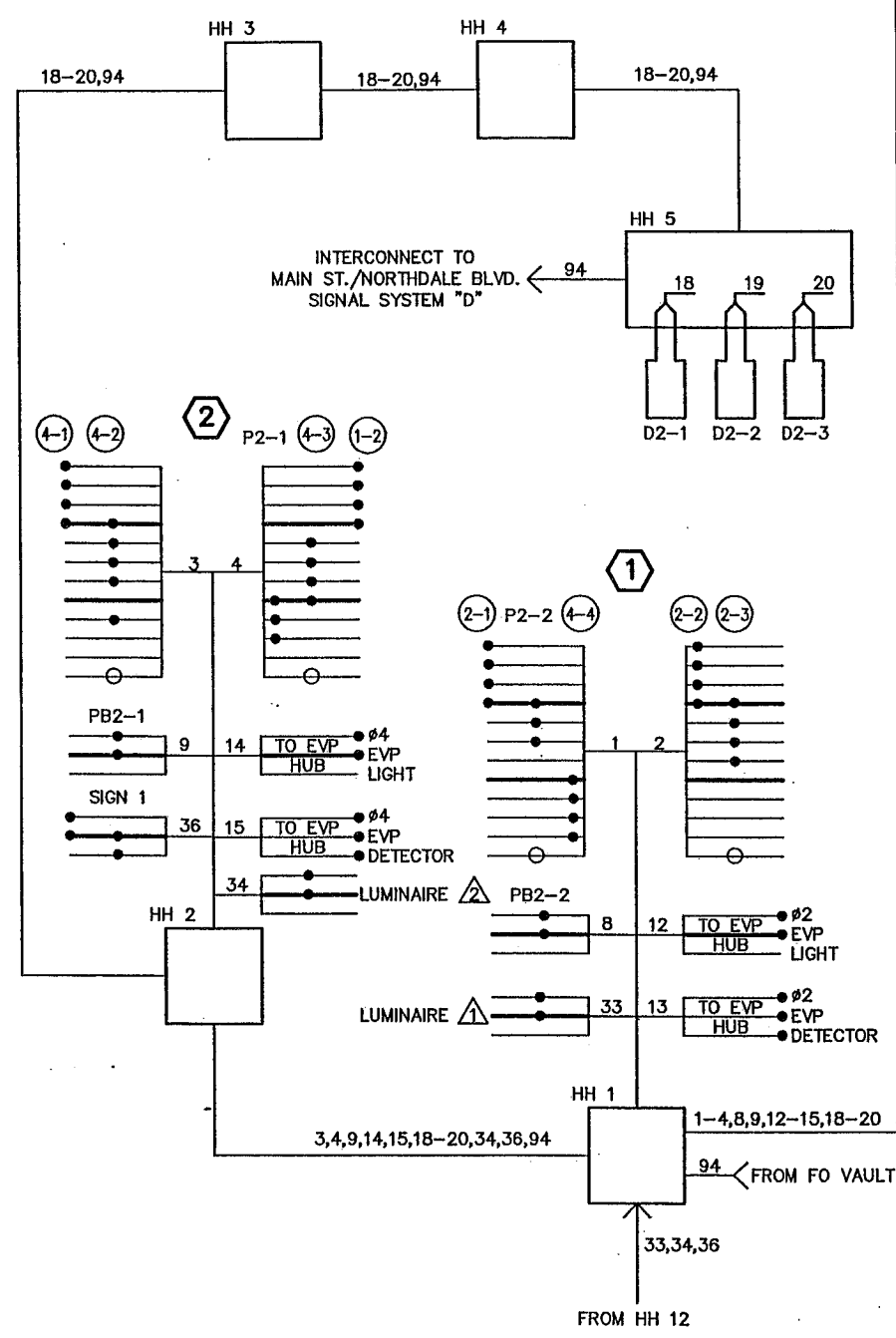
DATE: 12/21/99, MINN. REG. NO. 22793

**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)

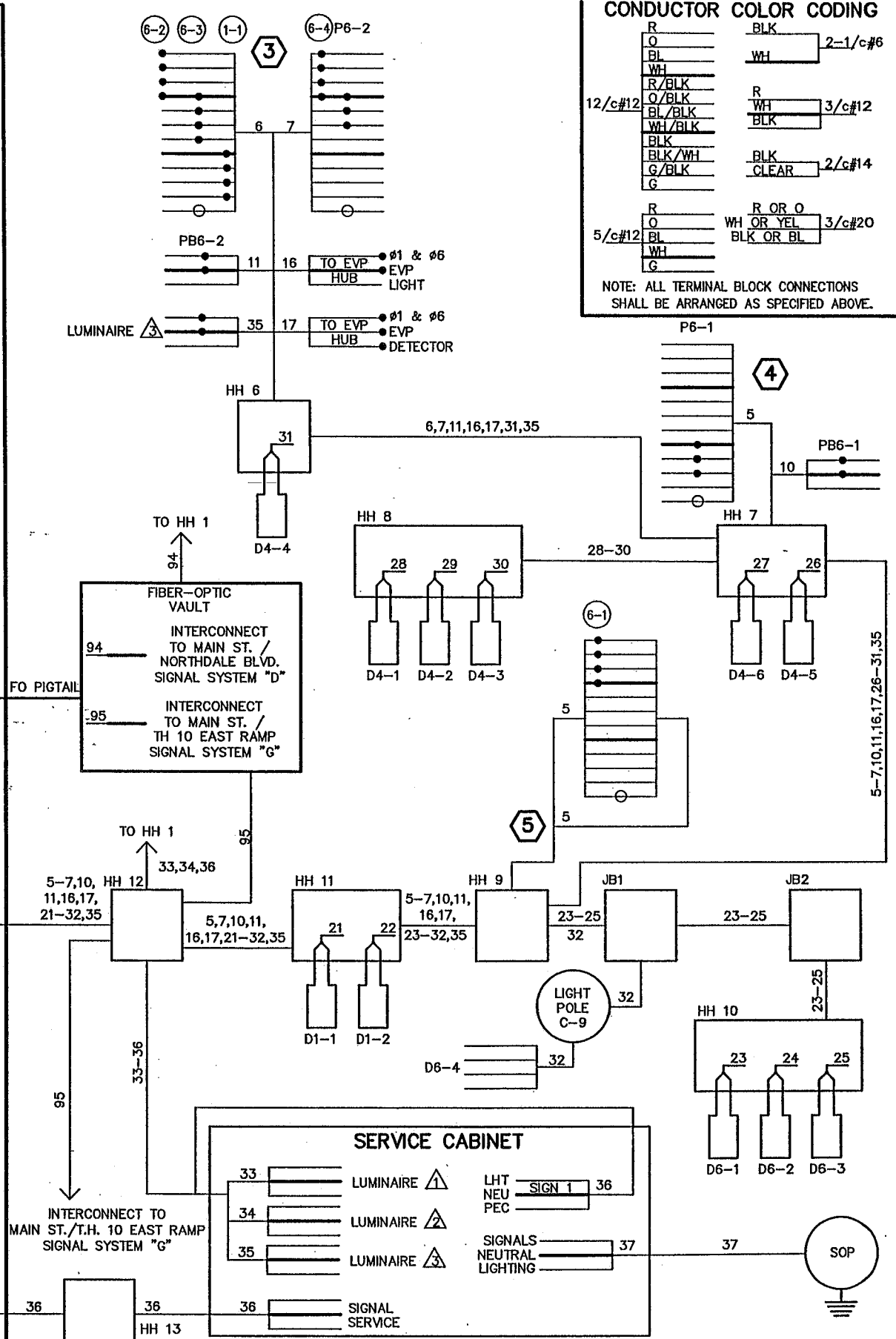
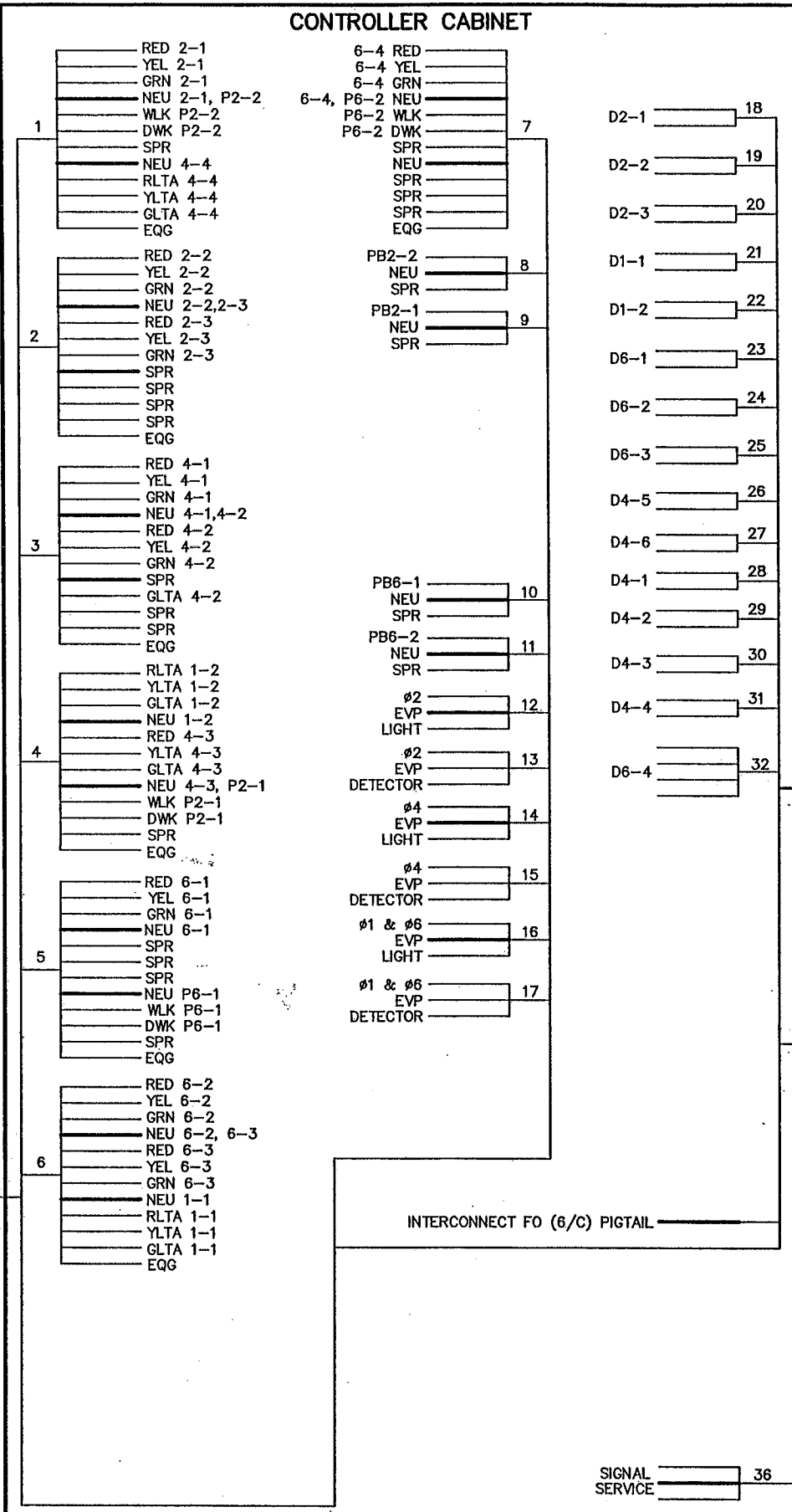
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	385
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	539
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

PLOT DATE: Jul 13, 2004 9:12am DISK FILE NAME: (15.06) R: 33889\SIGNALS\main\As-Built\5-wire.dwg



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CONDUCTOR COLOR CODING

R	BLK	
O	WH	2-1/c#6
BL		
WH		
R/BLK		
O/BLK	R	
BL/BLK	WH	3/c#12
WH/BLK	BLK	
BLK		
BLK/WH	BLK	2/c#14
G/BLK	CLEAR	
G		
R	R OR O	
O	WH OR YEL	3/c#20
BL	BLK OR BL	
WH		
G		

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
CHKD. BY: RJG	DWG. NAME: 5-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)370-3700 (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 A. 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
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

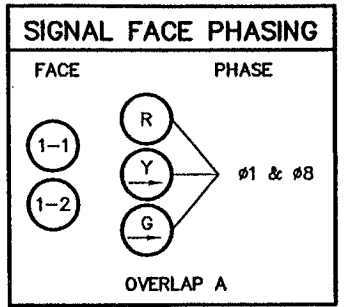
SHEET NO.
386

539

APBOX
S1GBASE
12-ESUM
12E-ALI
_STRIP
12E-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

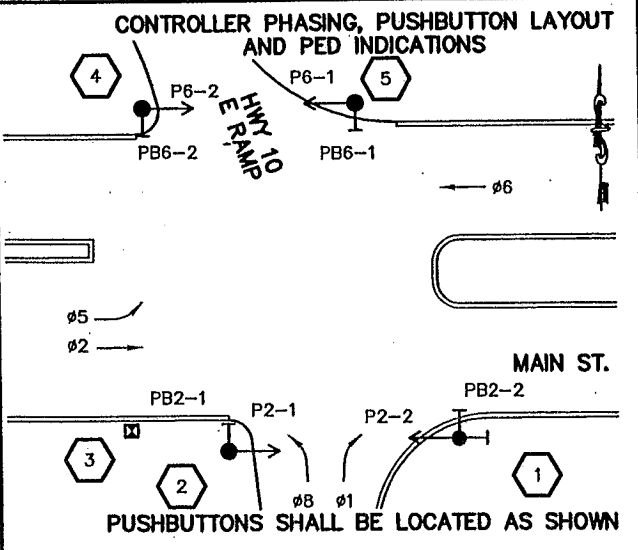
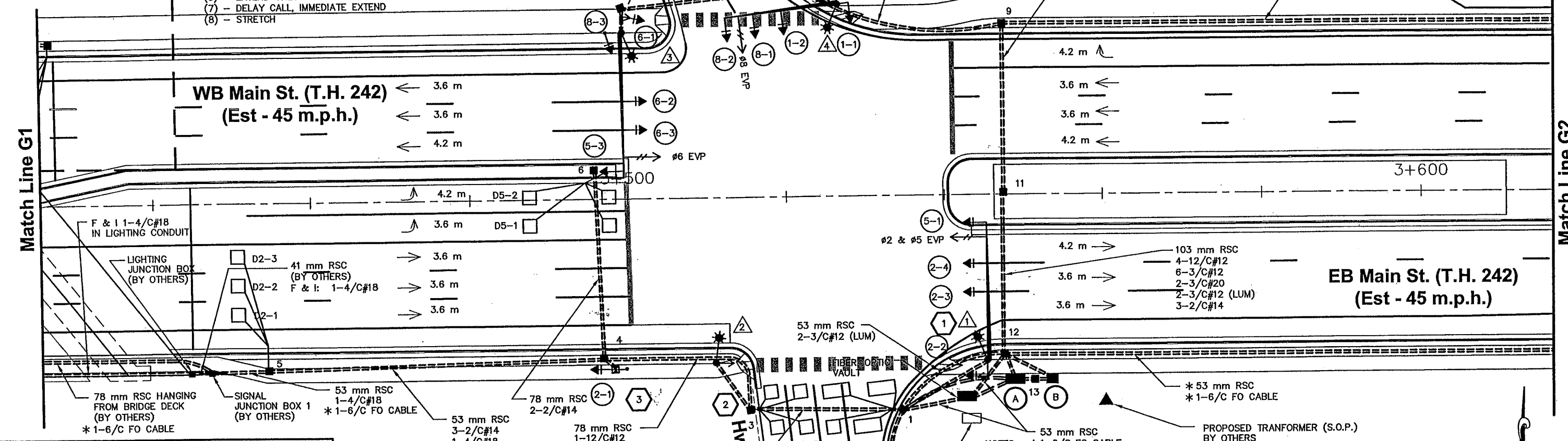
SIGNAL FACES						
ALL INDICATIONS SHALL BE 300 mm						
ALL INDICATIONS SHALL BE LED.						
SIGNAL FACE	R	Y	G	R	Y	G
1-1, 1-2	●	●	●	←	←	←
2-1, 2-2, 2-3, 2-4/1	●	●	●	←	←	←
5-1, 5-2, 5-3	●	●	●	←	←	←
6-1, 6-2, 6-3	●	●	●	←	←	←
8-1	●	●	●	←	←	←
8-2, 8-3	●	●	●	←	←	←



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

Main St. /
T.H. 10 West Ramp
Signal System "F"



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 = $\phi 8 + \phi 1$

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 SPECIAL PROVISIONS FOR Mn/DOT AND ANOKA COUNTY FURNISHED MATERIALS.
 - EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
 - EACH PEDESTRIAN SIGNAL FACE SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
 - LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 - HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
 - LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS-LINKED POLYETHYLENE (XLP) IN 21 mm SEE SPECIAL PROVISIONS AND DETAILS.
 - 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.
 - SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
 - SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
 - * DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).
 - REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "G"

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	ADDENDUM ADDED 2-4 TO SIGNAL FACES
5	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE:
33889028

DRAWN BY:
JAS

DESIGN BY:
JRN

CHECKED BY:
RJG

DWG. NAME:
6-LAY

DATE:
DECEMBER 21, 1999



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 A. 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\SIGNALS\main\As-Built\6-lay.dwg

IPBOX
12-ESUM
12E-ALI
_STRIFE
51GBASE
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 (#2 & #5)
(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

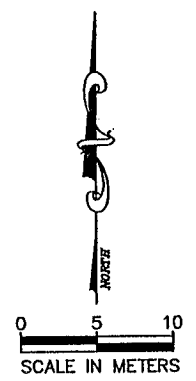
- 4** TYPE PA100 POLE FOUNDATION
TYPE PA100-A-16.8-X9.1
LUMINAIRE ARM AT 350°
(SEE SPECIAL PROVISIONS)
LUMINAIRE 250 WATT METAL HALIDE
WITH P.E.C. AND CHECK SWITCH
(SEE SPECIAL PROVISIONS)
3 - ONE WAY SIGNALS OVERHEAD (0.0 m,
5.2 m & 8.8 m FROM END OF MAST ARM)
1 - TYPE 10A POLE MOUNTED AT 90°
1 - TYPE 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 (#6)
(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 (#2 & #5)
(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)

- 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

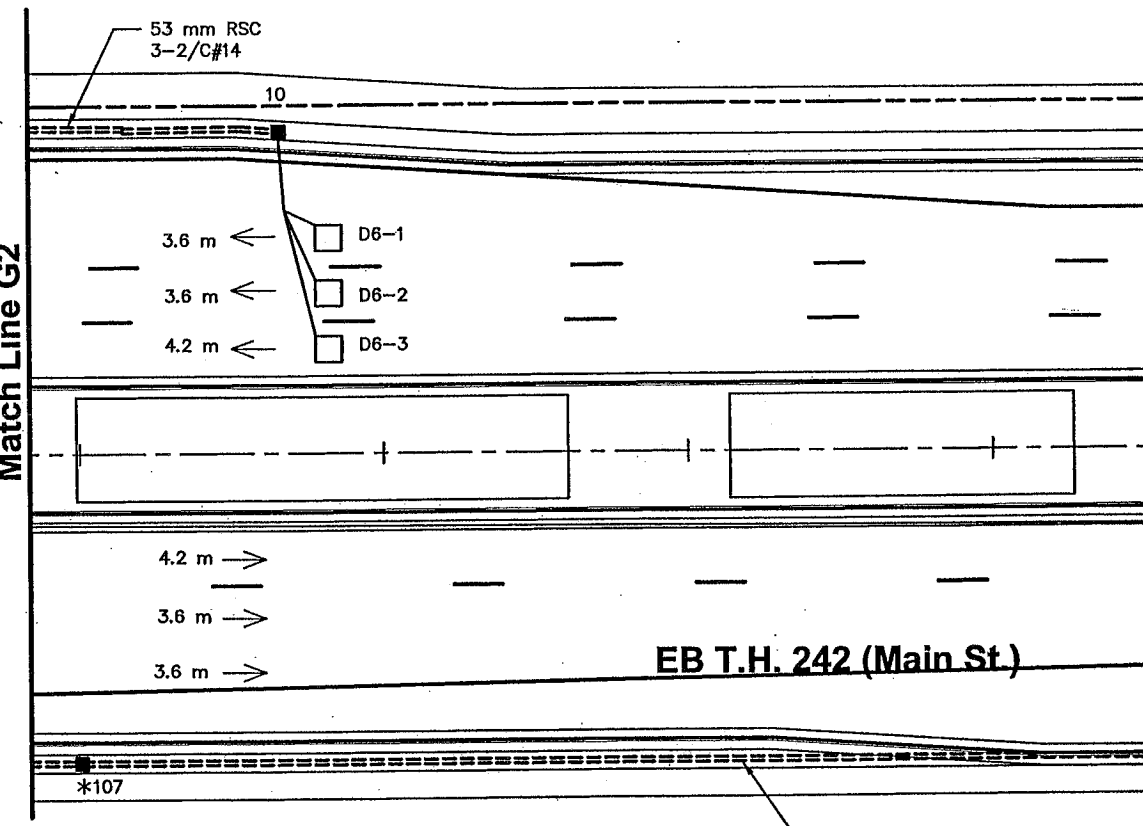
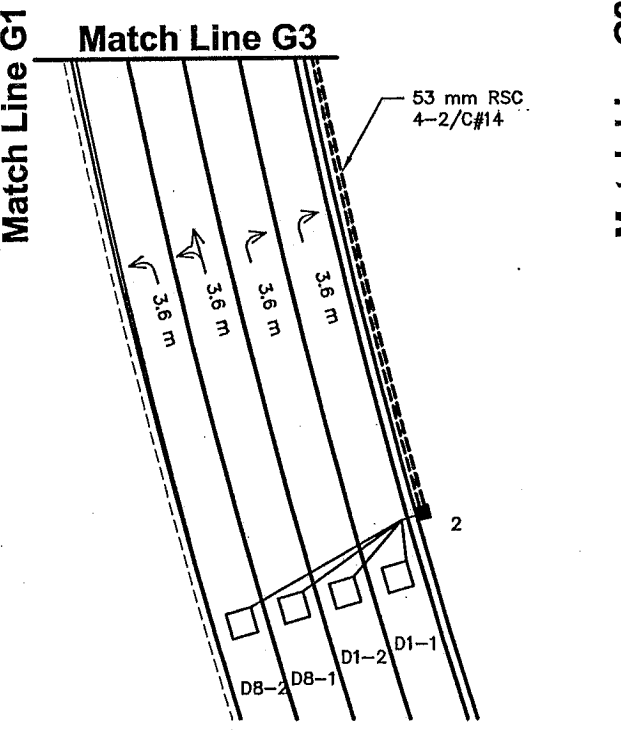
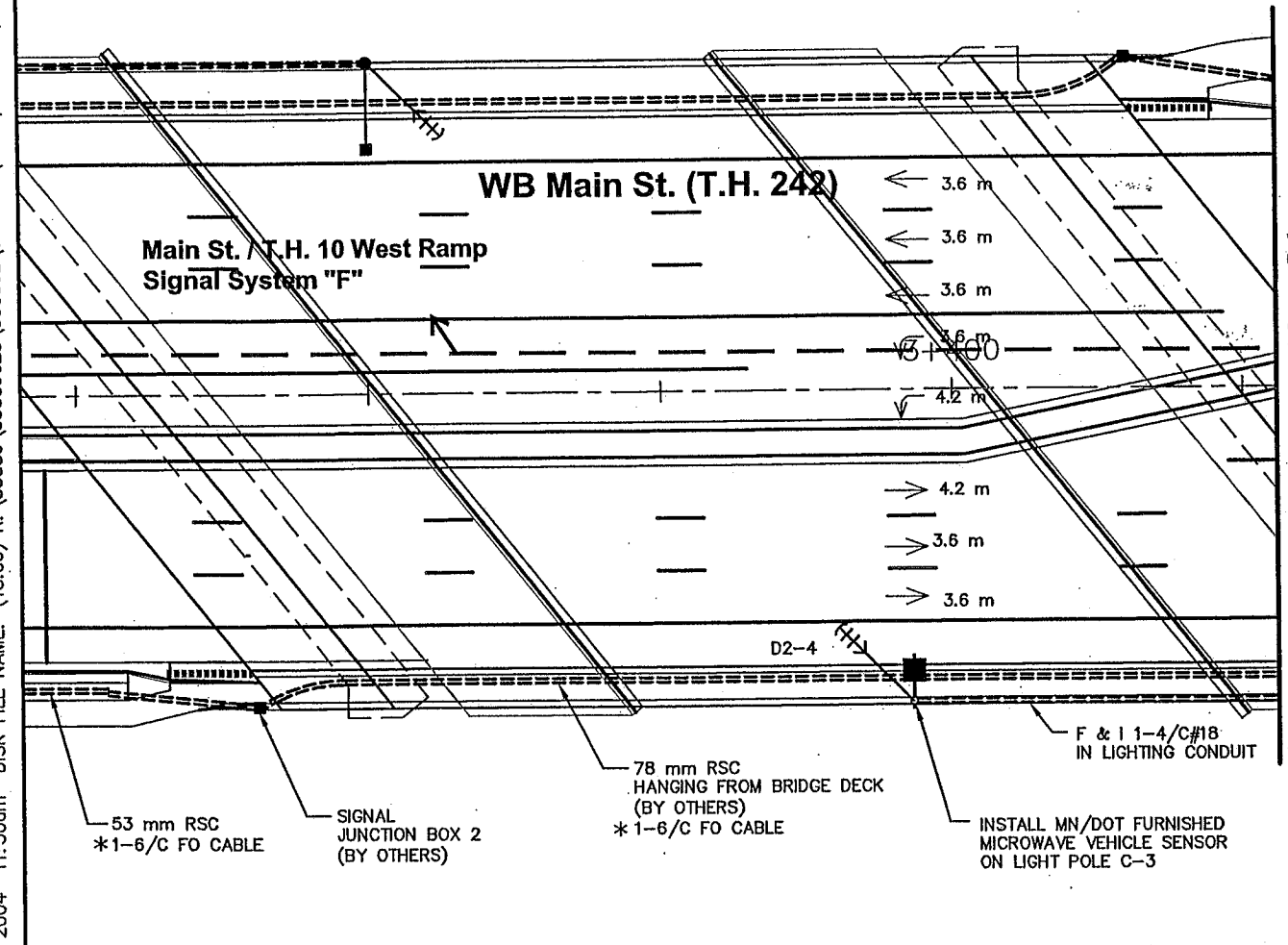
- A** INSTALL CONTROLLER AND CABINET
(FURNISHED BY ANOKA COUNTY)
CABINET FOUNDATION
- EXTEND INTO HH 12:
103 mm RSC
4-12/C#12
5-3/C#12
2-3/C#20
3-2/C#14
- EXTEND INTO HH 1:
103 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
13-2/C#14
1-4/C#18
- EXTEND INTO HH 13:
METERED SIGNAL SERVICE
35 mm RSC
3-1/C#6

- 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)



* DENOTES ITEMS INCLUDED WITH INTERCONNECT.
(SEE INTERCONNECT PLANS)

EXTEND TO
FIBER-OPTIC VAULT:
78 mm RSC
*1-6/C FO CABLE



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	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
CHKD. BY: RJG	DWG. NAME: 6-LAY2	DATE: DECEMBER 21, 1999

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.

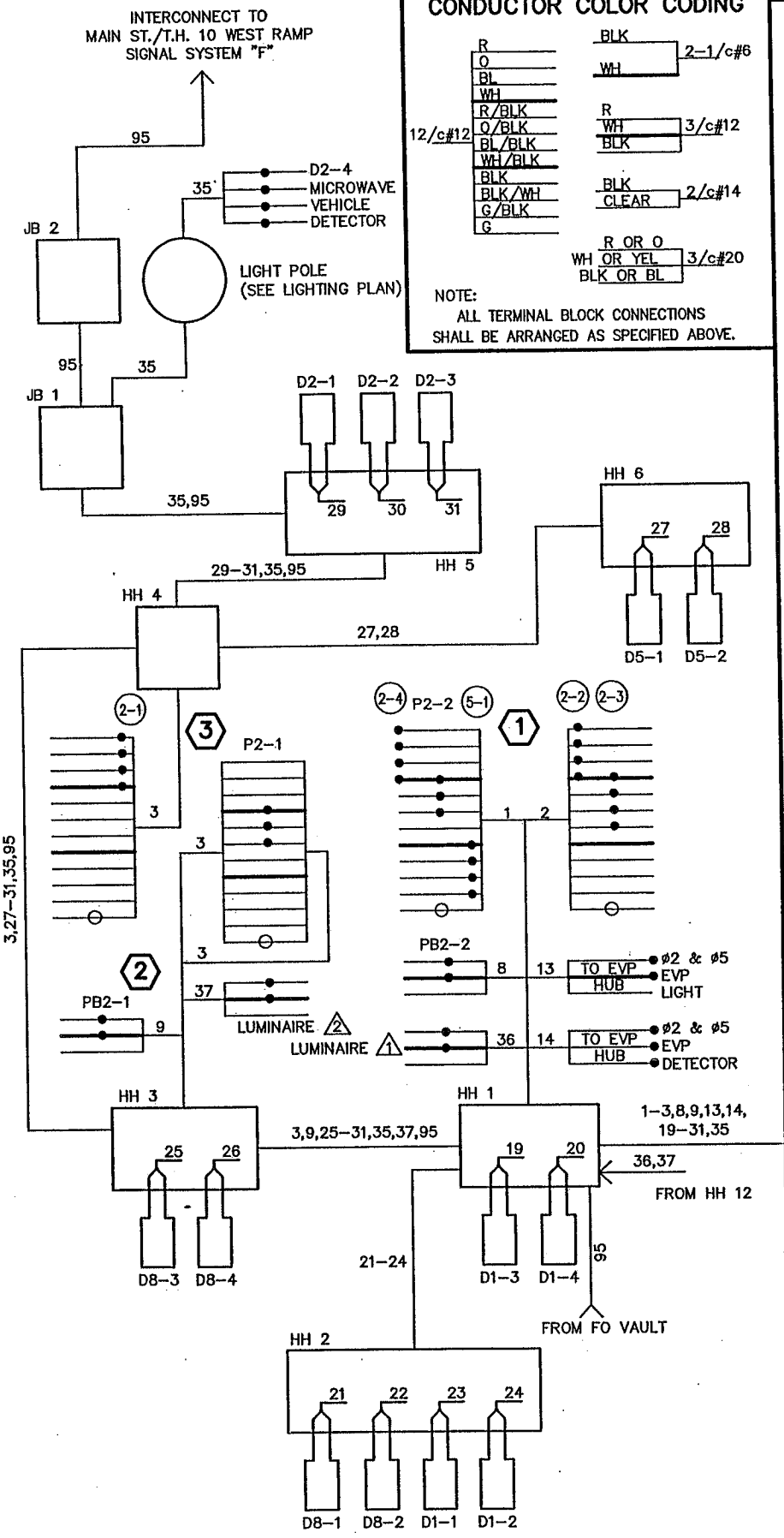
Robert J. Green
DATE: 12/21/99 MINN. REG. NO. 22793

**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)	SHEET NO.
S.A.P. 02 - 614 - 19	388
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	539
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

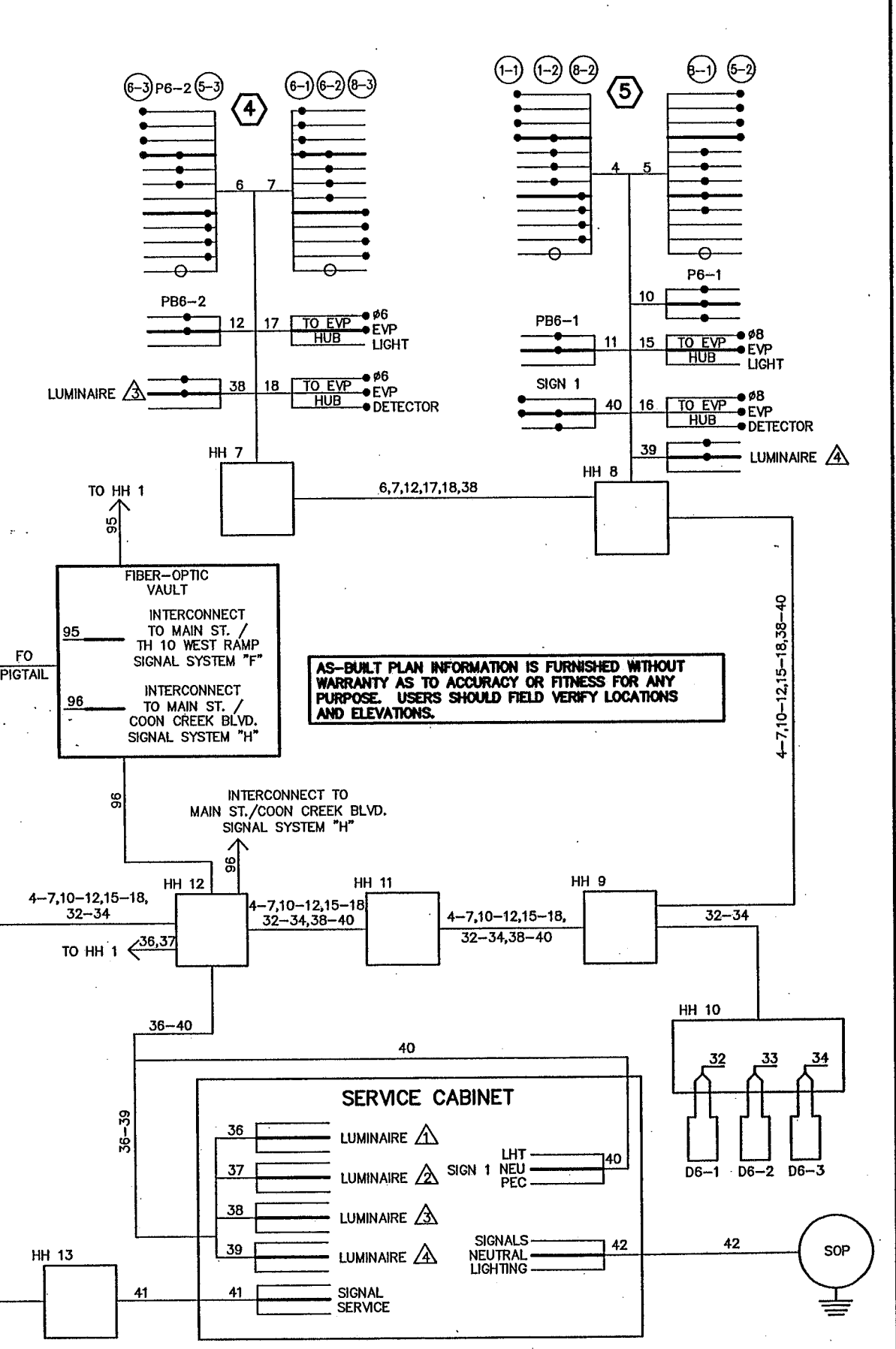
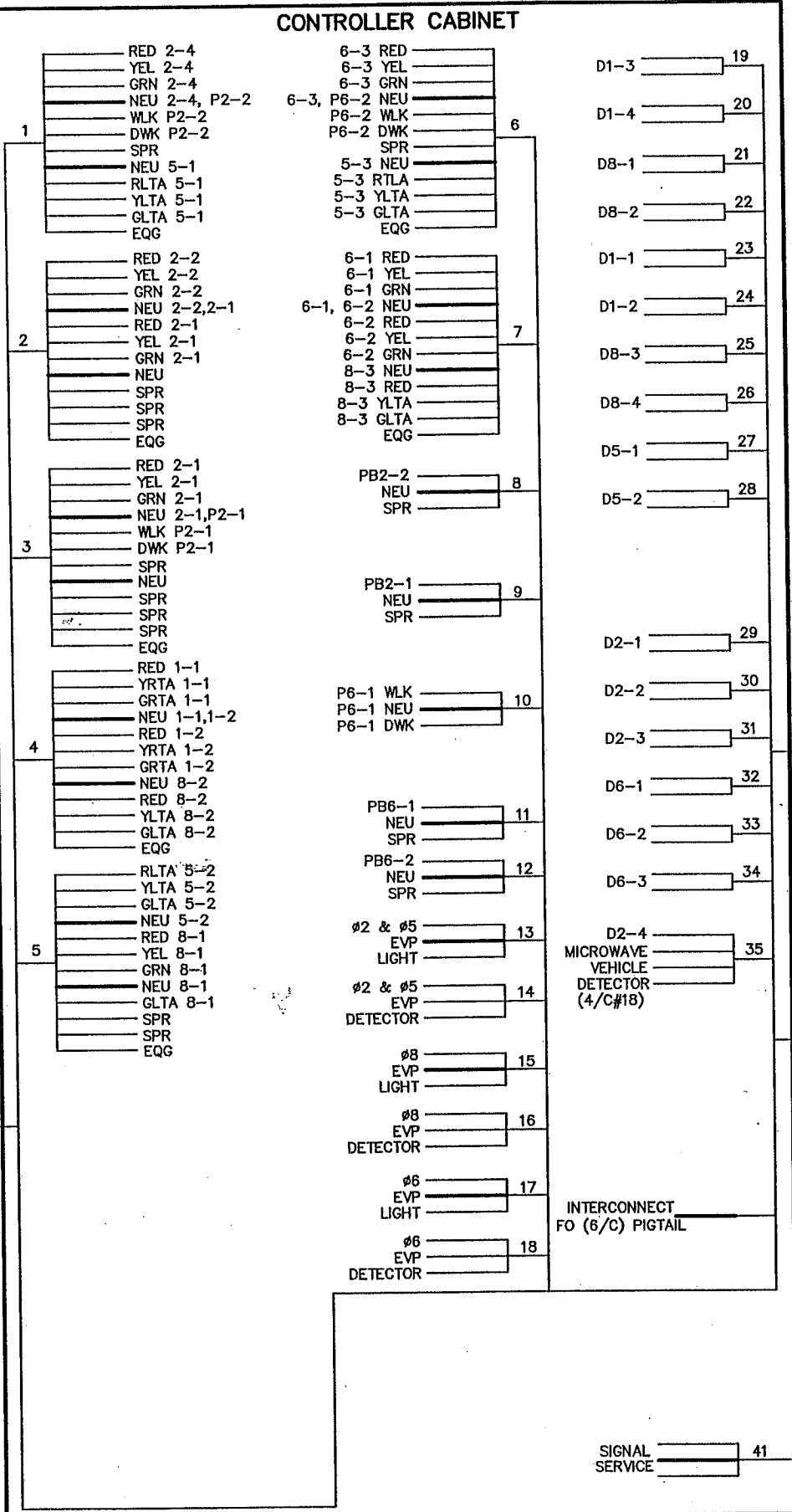
PLOT DATE: Jul 07, 2004 11:50am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\6-lay2.dwg



CONDUCTOR COLOR CODING

R	BLK	2-1/c#6
O	WH	
BL		
WH	R	
R/BLK	WH	3/c#12
O/BLK	BLK	
BL/BLK		
WH/BLK		
BLK	BLK	2/c#14
BLK/WH	CLEAR	
G/BLK		
G	R OR O	3/c#20
	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.

PLOT DATE: Jul 13, 2004 9:18am DISK FILE NAME: (15.06) R:\33889\SIGNALS\wain\As-Built\6-wire.dwg

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
CHKD. BY: RJG	DWG. NAME: 6-WIRE	
DATE: DECEMBER 21, 1999		



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 "G"
T.H. 242 (MAIN ST.) / T.H. 10 EAST RAMP
FIELD WIRING DIAGRAM
CITY PROJECT 98-20

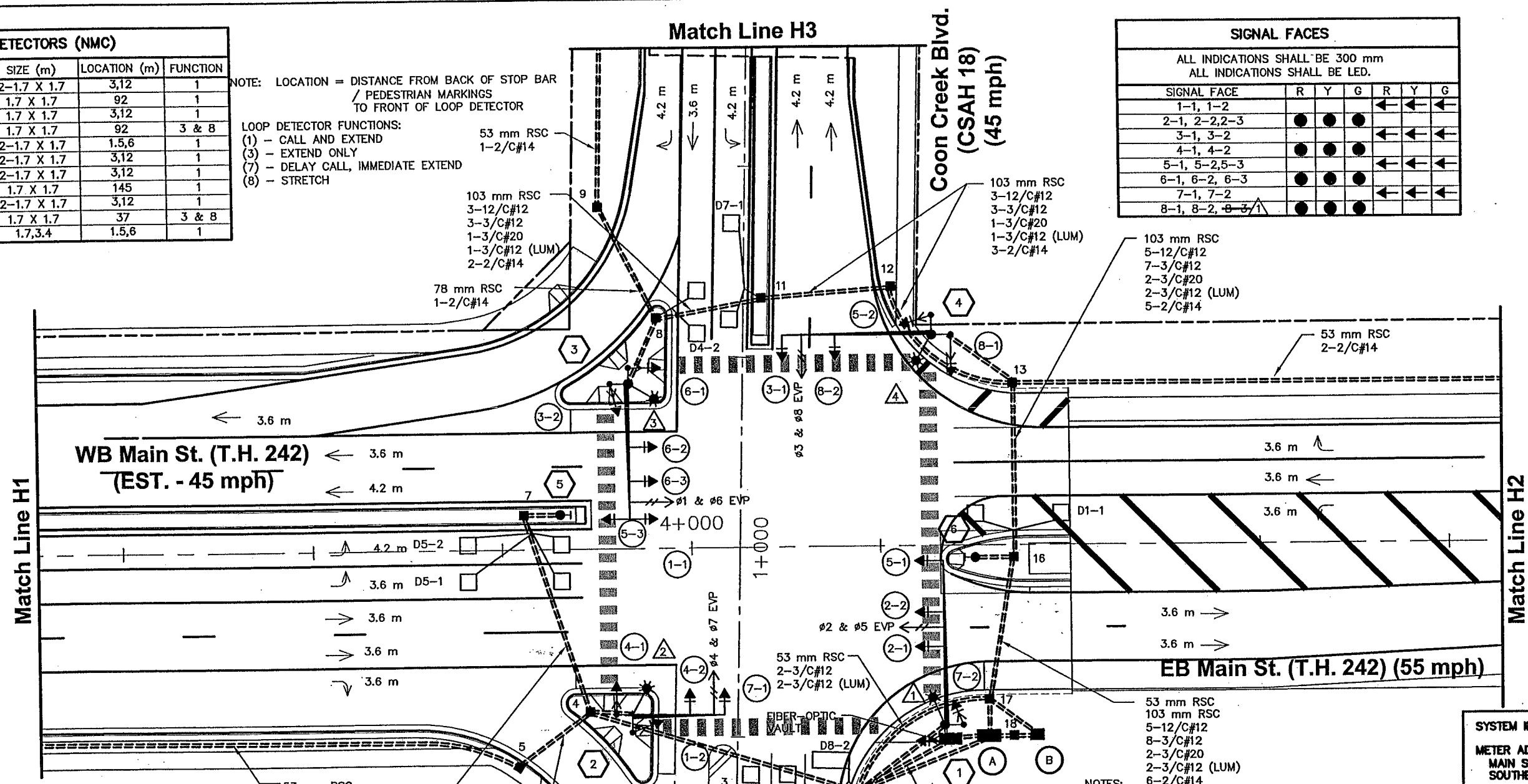
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	389
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

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

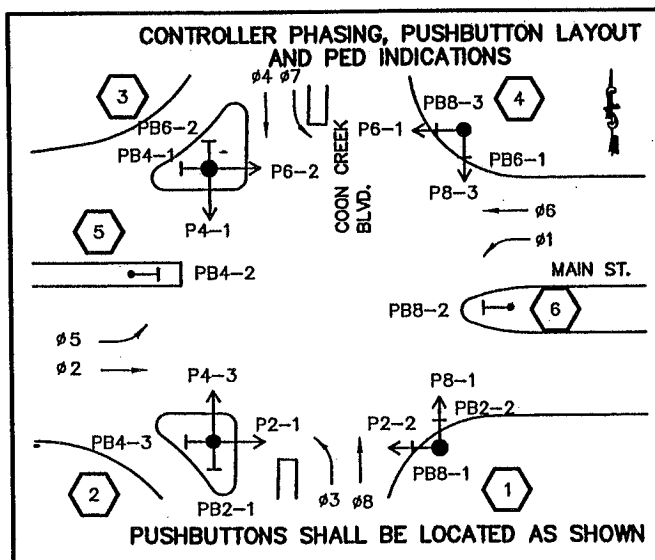
NOTE: LOCATION = DISTANCE FROM BACK OF STOP BAR / PEDESTRIAN MARKINGS TO FRONT OF LOOP DETECTOR

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

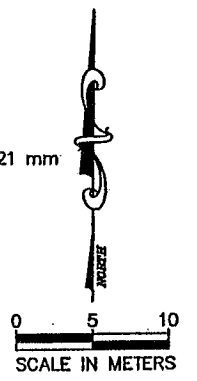


SIGNAL SYSTEM OPERATION

- 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.

- NOTES:
- SEE SPECIAL PROVISIONS FOR ANOKA COUNTY FURNISHED MATERIALS.
 - EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL BE LED. SEE SPECIAL PROVISIONS.
 - EACH PEDESTRIAN SIGNAL FACE SHALL BE A ONE SECTION LED HAND/WALKING PERSON INDICATION. SEE SPECIAL PROVISIONS.
 - LOCATION OF POLES, CONTROLLER CABINET, SERVICE CABINET, AND HANDHOLES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 - HANDHOLES SHALL BE PVC WITH METAL FRAMES AND COVERS, PER MN/DOT STANDARD PLATE NO. M8114.
 - LOOP DETECTOR WIRES SHALL BE #12 AWG CROSS-LINKED POLYETHYLENE (XLP) IN 21 mm NMC. SEE SPECIAL PROVISIONS AND DETAILS.
 - 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.
 - SIGNAL EQUIPMENT SHALL BE PAINTED DARK BROWN AS SPECIFIED IN THE SPECIAL PROVISIONS.
 - SEE SPECIAL PROVISIONS, DETAILS, AND REMAINDER OF PLANS FOR INFORMATION REGARDING SIGN PANELS, STRIPING, AND CURB CUTS.
 - * DENOTES ITEM INCLUDED WITH INTERCONNECT (SEE INTERCONNECT PLANS).
 - REMOVAL AND SALVAGING OF THE INPLACE SIGNAL SYSTEM SHALL BE INCLUDED IN ITEM 2565.511 SIGNAL SYSTEM "H".
 - 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).



PLOT DATE: Jul 07, 2004 12:21pm DISK FILE NAME: (15.06) R:\33889\33889028\33889028\SIGNALS\main\As-Built\7-lay.dwg

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	KFK	2/17/00	ADDED 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

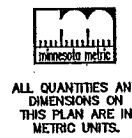
DRAWN BY:
JAS

DESIGN BY:
JRN

CHKD. BY:
RJG

DWG. NAME:
7-LAY

DATE:
DECEMBER 21, 1999



BRW
 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 F. 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.A.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

2-ESUM
STRIP
2E-ALI
1GBASE
2E-PLN

PLOT DATE: Jul 07, 2004 12:32pm DISK FILE NAME: (15.06) R:\33889\33889028\SIGNALS\main\As-Built\7-lay2.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)
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)

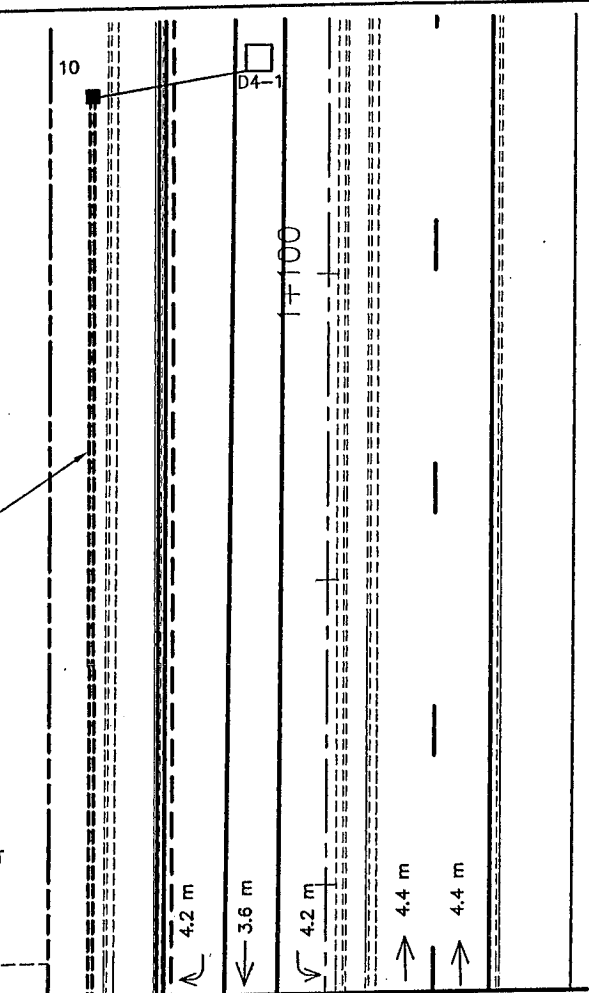
EXTEND INTO HH 8:
78 mm RSC
3-12/C#12
3-3/C#12
1-3/C#20
1-3/C#12 (LUM)

- 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)

- 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)



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 18: 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 INTO HH 17:
53 mm RSC
4-3/C#12 (LUM)
UNMETERED STREET LIGHT SERVICE
4-3/C#12
UNMETERED ILLUMINATED SIGN SERVICE
4-3/C#12

STUB OUT 53 mm RSC TO SOUTH
(FOR POWER BY CONNEXUS)

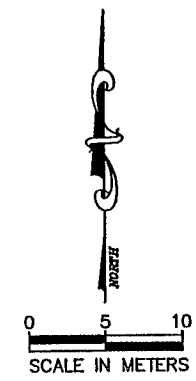
EXTEND TO
FIBER-OPTIC VAULT:
78 mm RSC
* 1-6/C FO CABLE

5 PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
PEDESTRIAN PUSHBUTTON

EXTEND INTO HH 7:
53 mm RSC
1-3/C#12

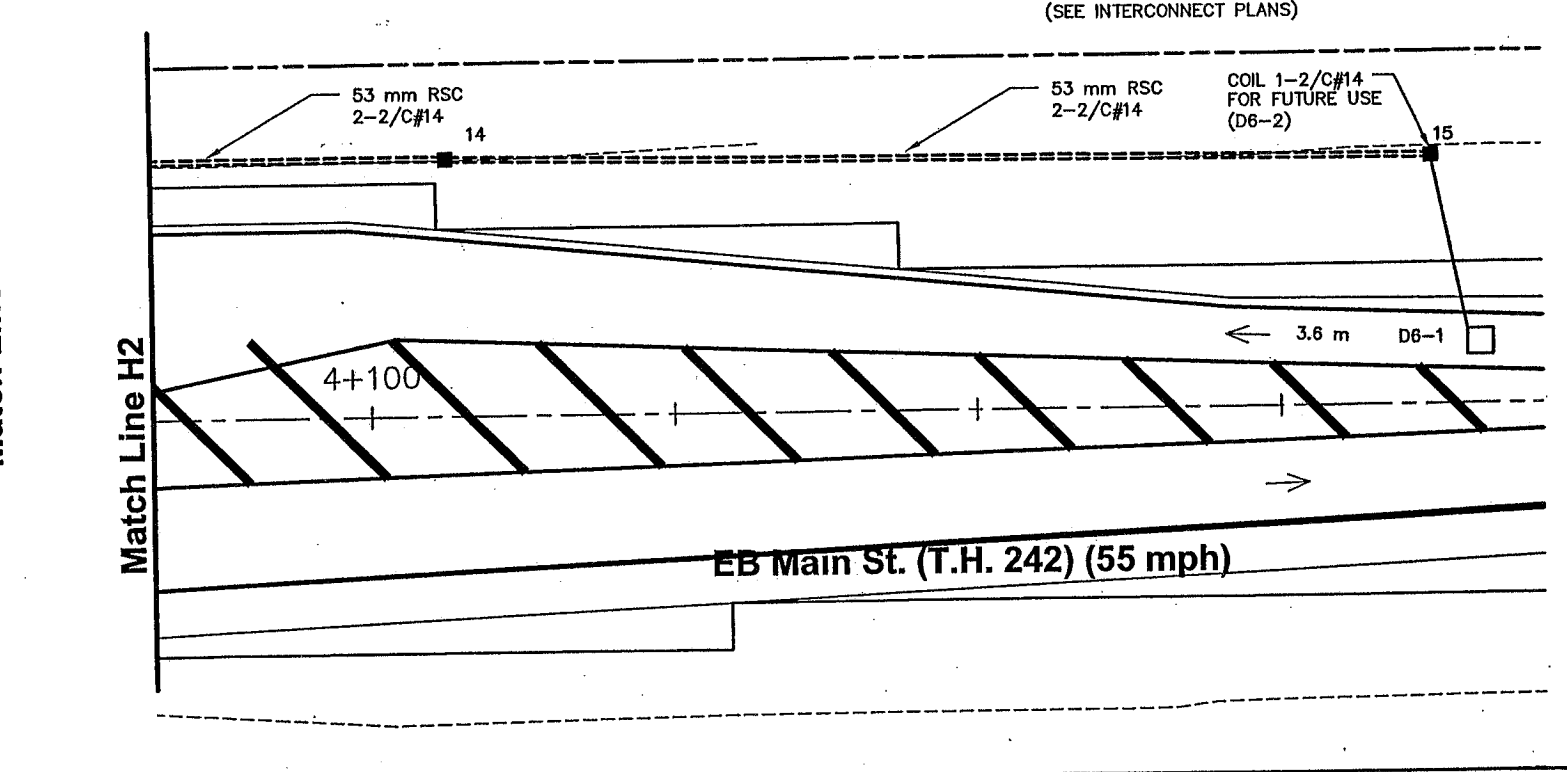
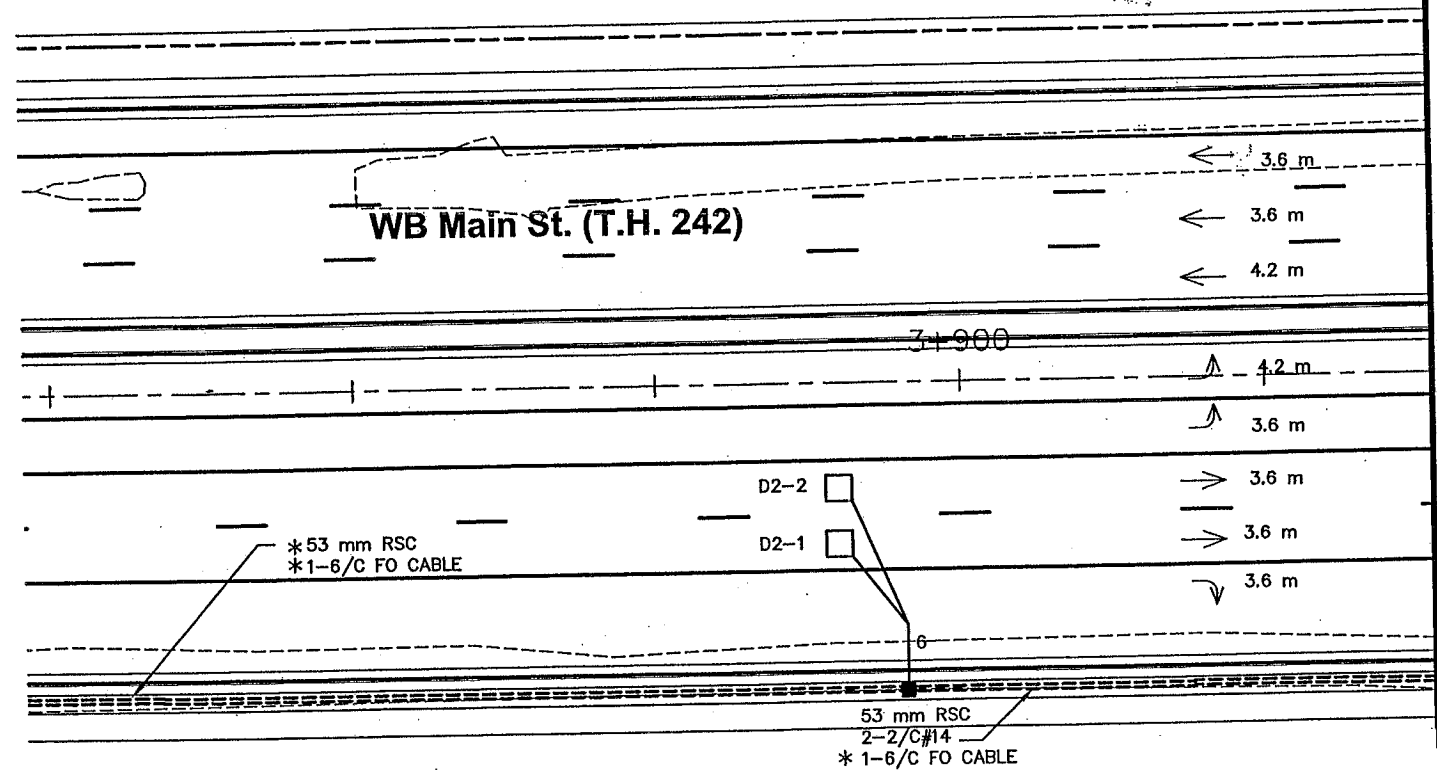
6 PEDESTAL FOUNDATION
3 m PEDESTAL POLE AND BASE
PEDESTRIAN PUSHBUTTON

EXTEND INTO HH 16:
53 mm RSC
1-3/C#12



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

* DENOTES ITEM INCLUDED WITH INTERCONNECT. (SEE INTERCONNECT PLANS)



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

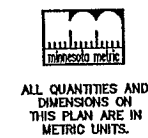
DRAWN BY:
JAS

DESIGN BY:
JRN

CHKD. BY:
RJG

DWG. NAME:
7-LAY2

DATE:
DECEMBER 21, 1999



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



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 A. 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 (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

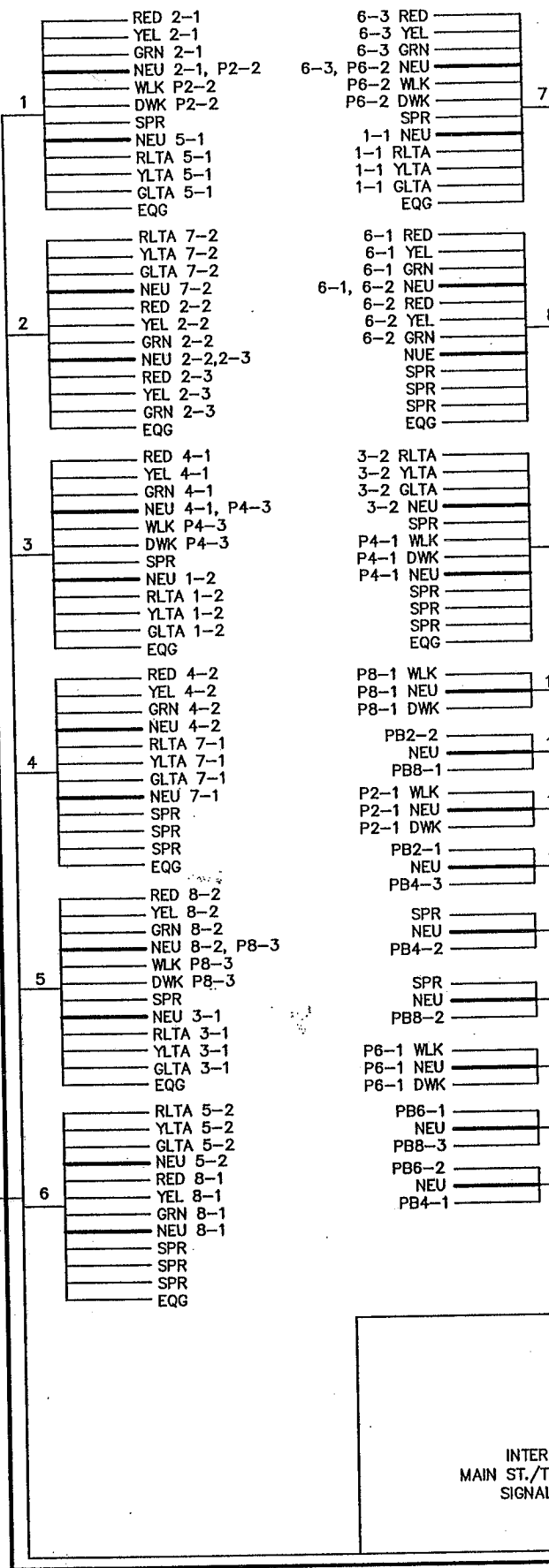
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CONDUCTOR COLOR CODING

R	BLK	2-1/c#6
O	WH	
BL		
WH	R	3/c#12
R/BLK	WH	
O/BLK	BLK	
BL/BLK	BLK	2/c#14
WH/BLK		
BLK	BLK	
BLK/WH	CLEAR	
G/BLK		
G	R OR O	3/c#20
	WH OR YEL	
	BLK OR BL	

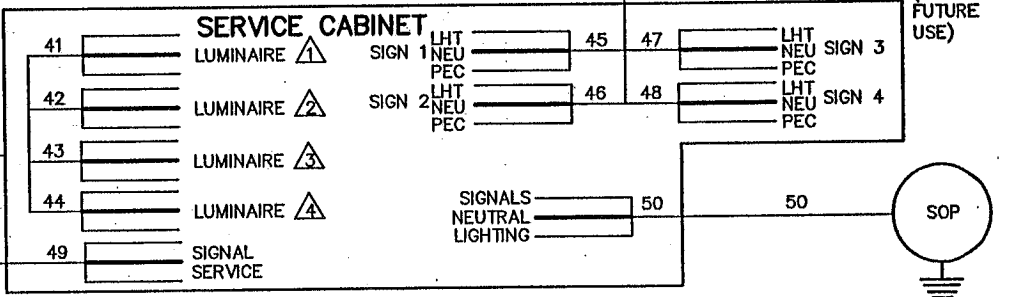
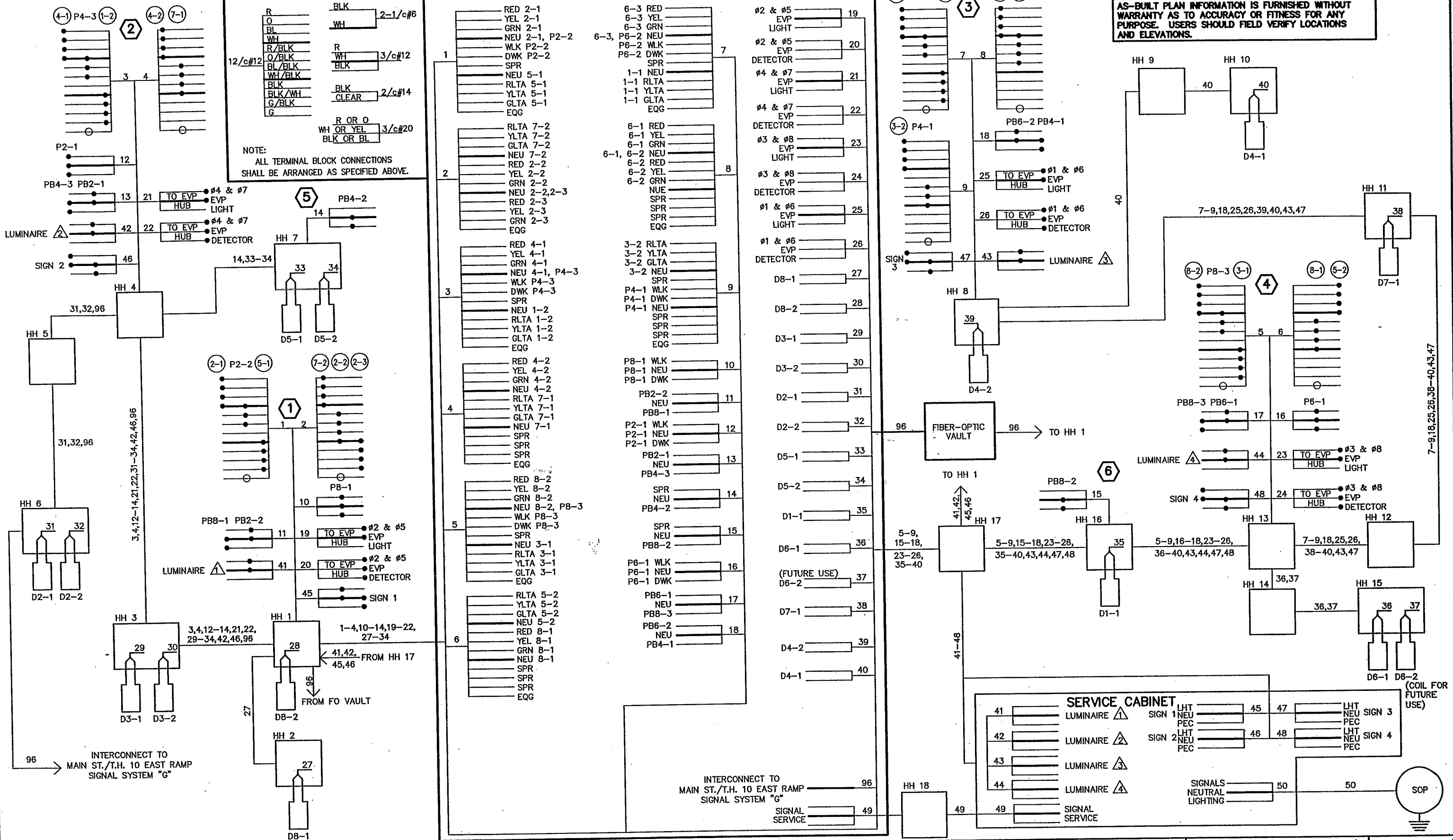
NOTE:
ALL TERMINAL BLOCK CONNECTIONS
SHALL BE ARRANGED AS SPECIFIED ABOVE.

CONTROLLER CABINET



INTERCONNECT TO
MAIN ST./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.



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/13/00	ADDED WIRES FOR PB4-2 AND PBB-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: JRN
DESIGN BY: JRN
CHKED. BY: RJG
DWG. NAME: 7-WIRE
DATE: DECEMBER 21, 1999



BRW
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

GROUP A DAMES & MOORE GROUP COMPANY

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.
Robert A. 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)	SHEET NO.
S.A.P. 02 - 614 - 19	392
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PLT DATE: Dec 23, 1999 2:50pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\0-imp.dwg

INDICATIONS

7131

7131

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:

- SEE SPECIAL PROVISIONS FOR CONTRACTOR'S RESPONSIBILITY FOR LOCATION OF UTILITIES.
- ALL SIGNAL FACES SHALL HAVE BACKGROUND SHIELDS.
- LUMINAIRE AT LOCATIONS 4 AND 5 SHALL INCLUDE P.E.C. AND CHECK SWITCH.
- SEE SPECIAL PROVISIONS FOR ANOKA COUNTY SERVICE CABINET DETAILS.
- HANDHOLES SHALL BE CONCRETE.
- LOOP DETECTOR WIRES SHALL BE CROSS LINKED POLYETHYLENE (XLP) IN 1" N.M.C. SEE SPECIAL PROVISIONS.
- ALL PEDESTRIAN INDICATIONS SHALL BE 12"x12".
- HUBS FOR POLE MOUNTED SIGNAL INDICATIONS SHALL BE PROVIDED ON FOUR SIDES OF MAST ARMS.
- CONTRACTOR SHALL INSTALL COUNTY-FURNISHED CONTROLLER AND CABINET. SEE SPECIAL PROVISIONS.
- 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.
- 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.

1) TYPE A100-A-55-D40-9 (DAVIT AT 350°)
A100 POLE FOUNDATION
FOUR ONE WAY SIGNALS OVERHEAD
TYPE IOB 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)

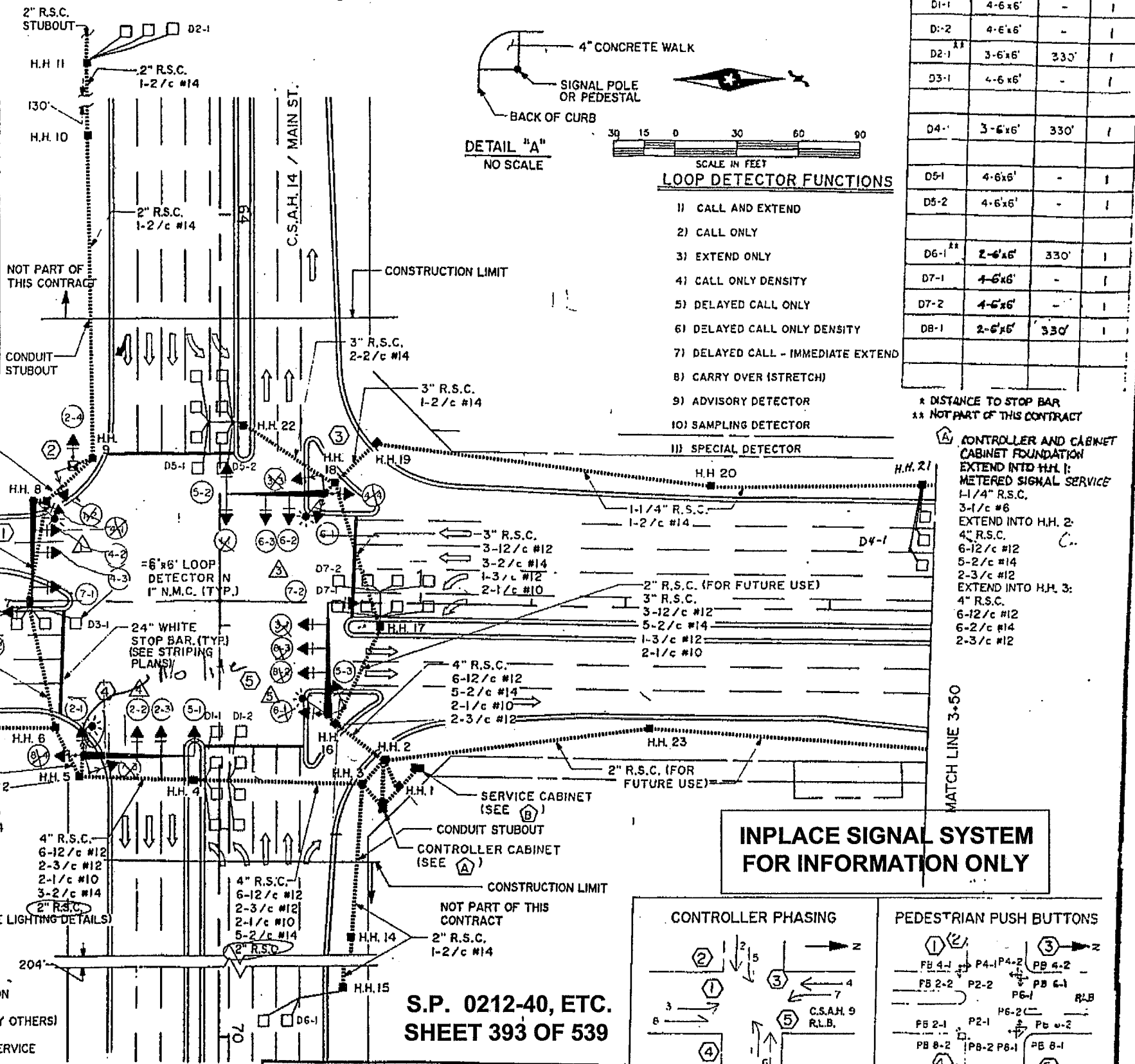
2) TYPE 2B
10' PEDESTAL POLE AND BASE
PEDESTAL FOUNDATION
2 PEDESTRIAN PUSH BUTTONS AND SIGNS
EXTEND INTO H.H. 9:
3" R.S.C.
1-12/c #12
1-3/c #12
CONCRETE WALK AREA (SEE DETAIL "A")

5) TYPE A100-A-55-D40-9 (DAVIT AT 350°)
A100 POLE FOUNDATION
FOUR ONE WAY SIGNALS OVERHEAD
TYPE IOB POLE MOUNTED AT 0°
TYPE IOB 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

4) TYPE A100-A-55-D40-9 (DAVIT AT 350°)
A100 POLE FOUNDATION
THREE ONE WAY SIGNALS OVERHEAD
TYPE IOA POLE MOUNTED AT 180°
TYPE IOB POLE MOUNTED AT 0°
TYPE IOB 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")

6) 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

THIS SHEET IN ENGLISH UNITS



LOOP DETECTORS

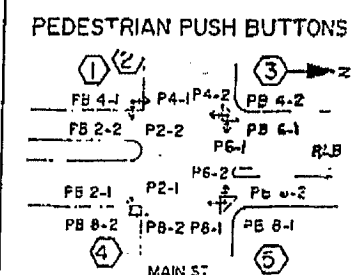
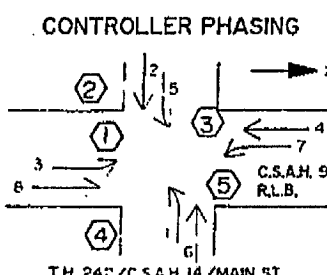
NUMBER	SIZE	LOC.	FUNC.
D1-1	4-6'x6'	-	1
D2-1	4-6'x6'	-	1
D3-1	3-6'x6'	330'	1
D4-1	4-6'x6'	-	1
D5-1	3-6'x6'	330'	1
D5-2	4-6'x6'	-	1
D6-1	2-6'x6'	330'	1
D7-1	4-6'x6'	-	1
D7-2	4-6'x6'	-	1
D8-1	2-6'x6'	330'	1

- LOOP DETECTOR FUNCTIONS
- CALL AND EXTEND
 - CALL ONLY
 - EXTEND ONLY
 - CALL ONLY DENSITY
 - DELAYED CALL ONLY
 - DELAYED CALL ONLY DENSITY
 - DELAYED CALL - IMMEDIATE EXTEND
 - CARRY OVER (STRETCH)
 - ADVISORY DETECTOR
 - SAMPLING DETECTOR
 - SPECIAL DETECTOR

* DISTANCE TO STOP BAR
** NOT PART OF THIS CONTRACT

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

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY



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.

DATE: 12/23/99, Minn. Reg. No. 12457

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: 12/23/99, Minn. Reg. No. 12457

BRW

DESIGN BY: [Signature]
DRAWN BY: [Signature]
CHECKED BY: [Signature]

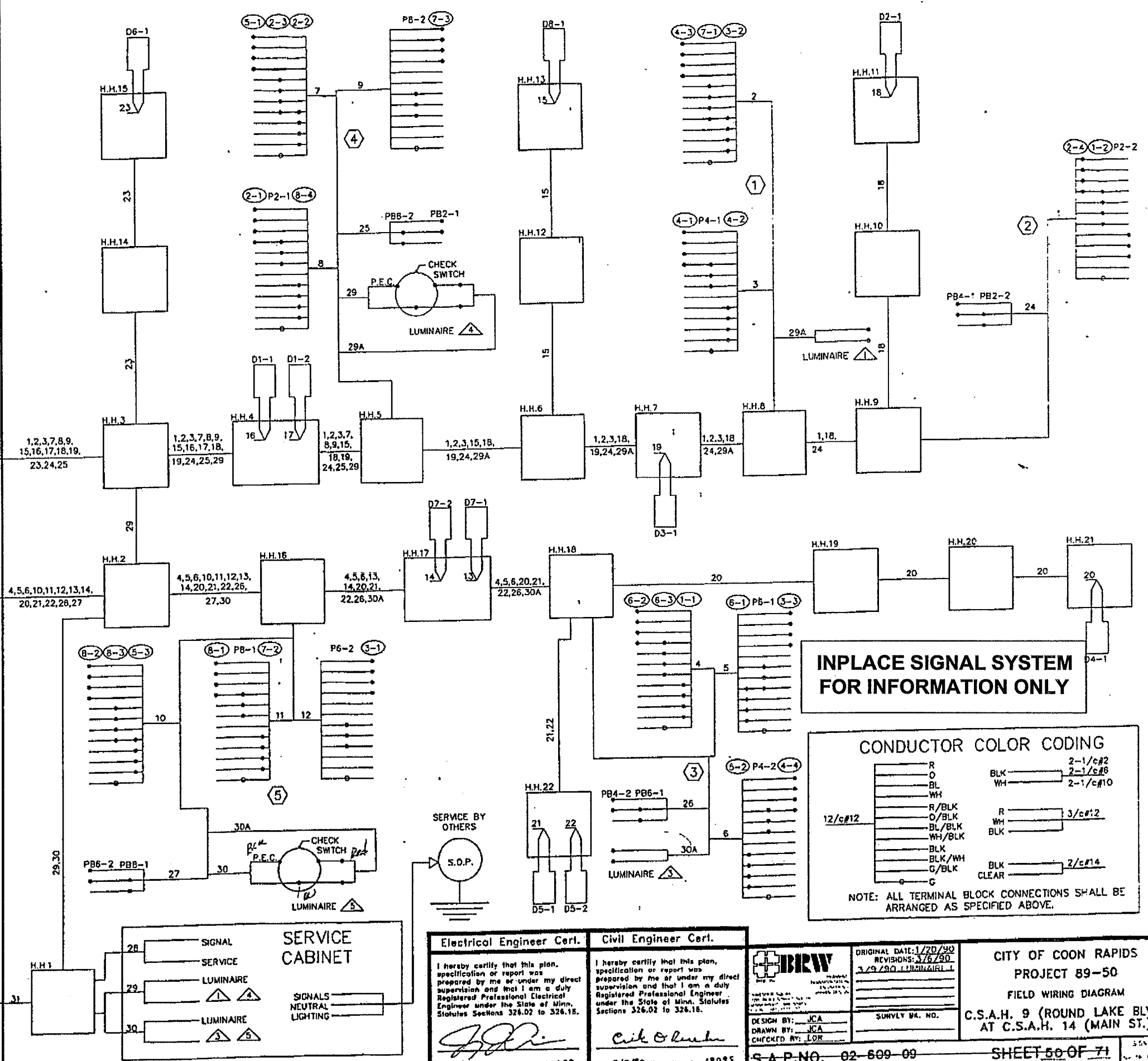
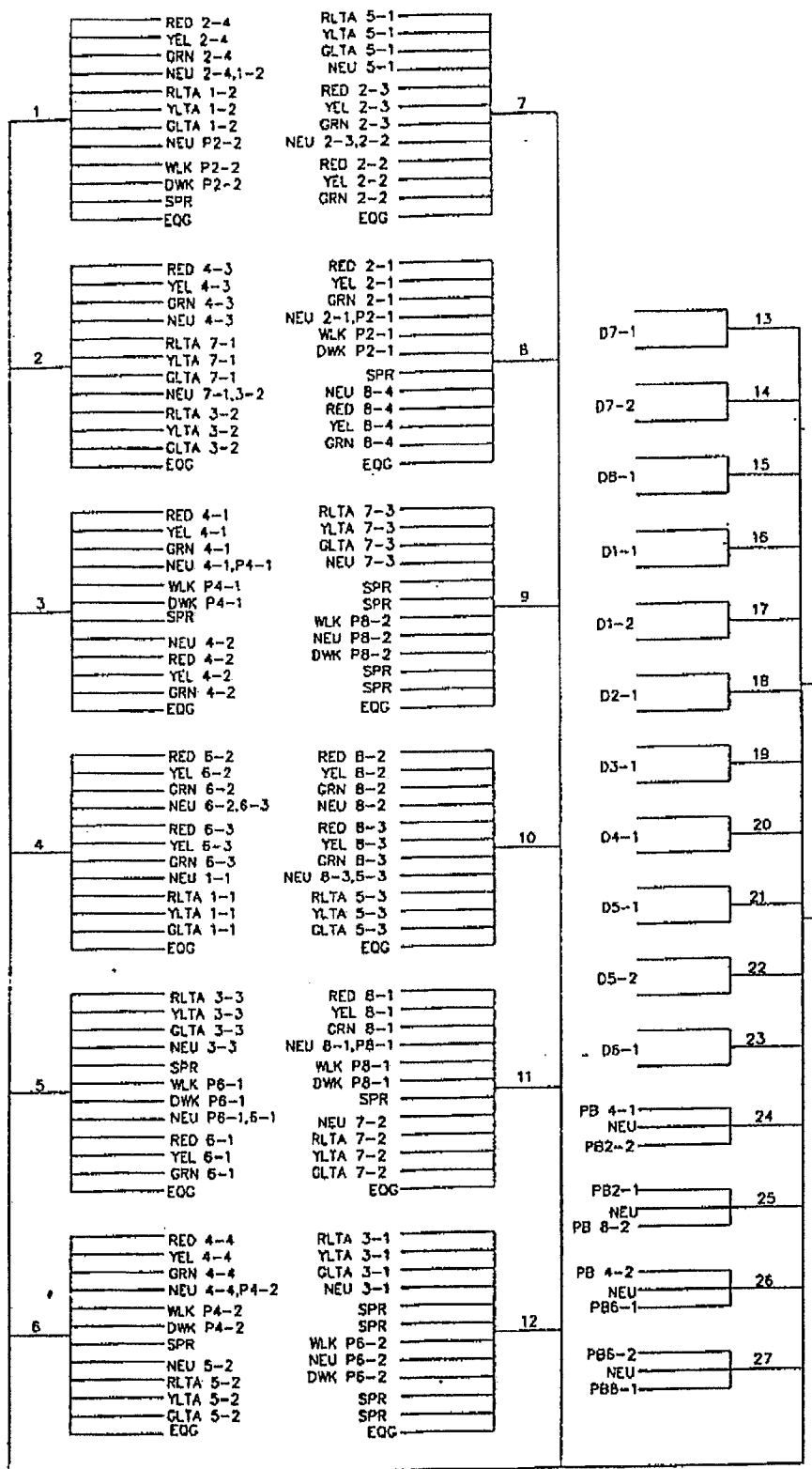
ORIGINAL DATE: 11/11/99
REVISIONS: 3/2/00
SURVEY BOOK

CITY OF COON RAPIDS

PROJECT 89-50
SIGNAL PLAN LAYOUT
C.S.A.H. 14 (ROUND LAKE E. JCT.)
C.S.A.H. 14 MAIN STREET

PLOT DATE: Dec 23, 1999 3:27pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\0-imp2.dwg

CONTROLLER CABINET

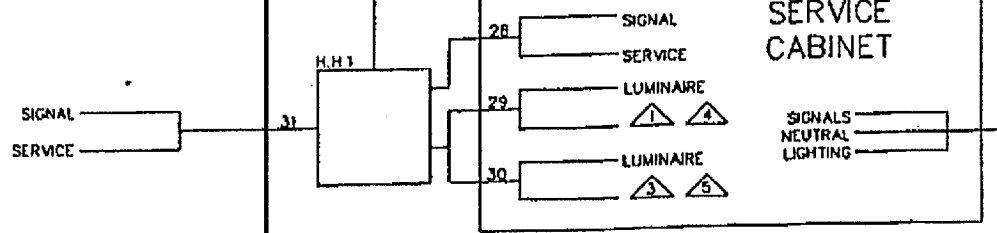


INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

CONDUCTOR COLOR CODING

R	2-1/c#2
O	2-1/c#5
BLK	2-1/c#10
WH	
R/BLK	
O/BLK	3/c#12
BL/BLK	
WH/BLK	
BLK	
BLK/WH	2/c#14
G/BLK	
G	
CLEAR	

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.



<p>Electrical Engineer Cert.</p> <p>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.</p> <p><i>[Signature]</i></p> <p>Date 3/9/99 Minn. Reg No. 1E637</p>	<p>Civil Engineer Cert.</p> <p>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.</p> <p><i>[Signature]</i></p> <p>Date 3/9/99 Minn. Reg No. 1B095</p>
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ORIGINAL DATE: 1/20/90
 REVISIONS: 3/6/90
 3/9/90 / 1/11/91 / 1

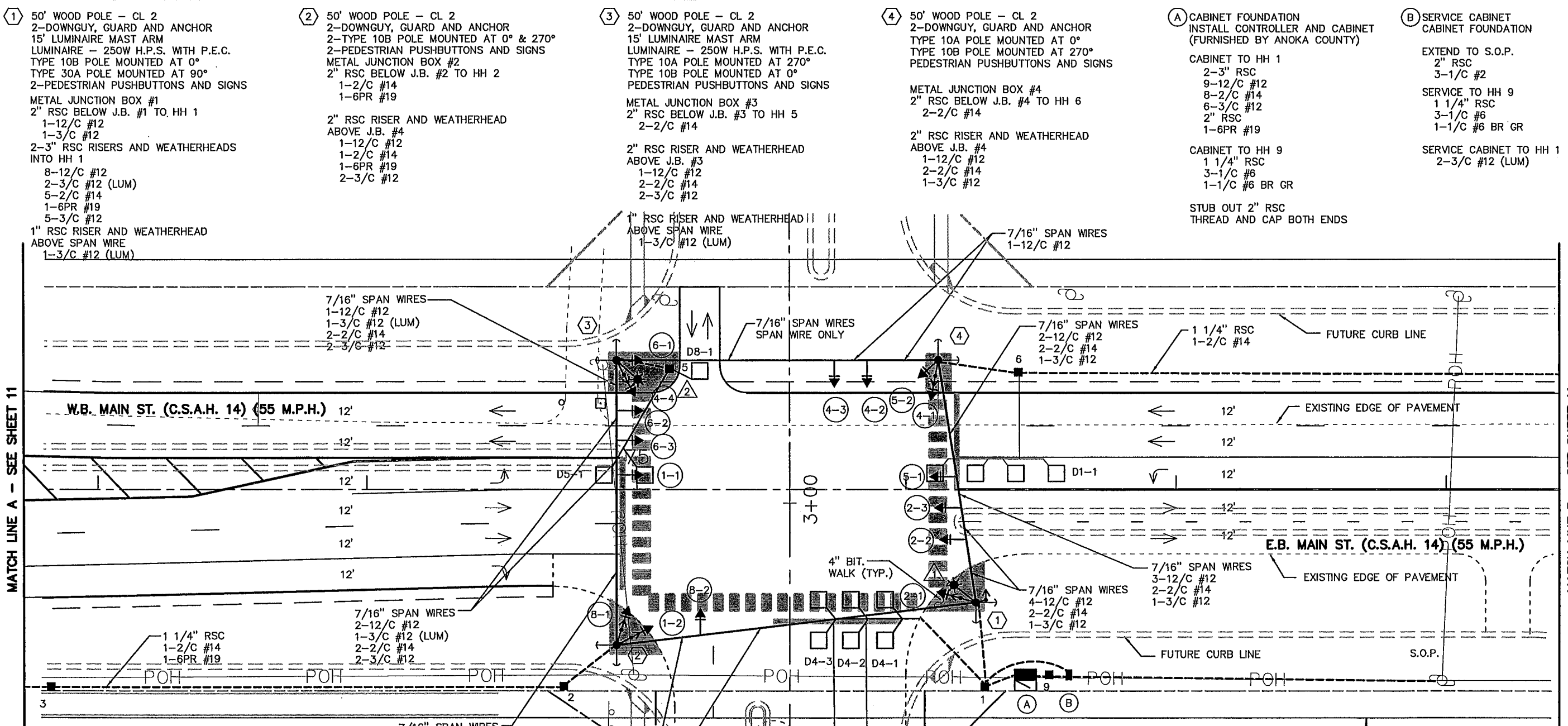
CITY OF COON RAPIDS
 PROJECT 89-50
 FIELD WIRING DIAGRAM
 C.S.A.H. 9 (ROUND LAKE BLVD)
 AT C.S.A.H. 14 (MAIN ST.)
 SHEET 50 OF 71

DESIGN BY: JCA
 DRAWN BY: JCA
 CHECKED BY: LOR

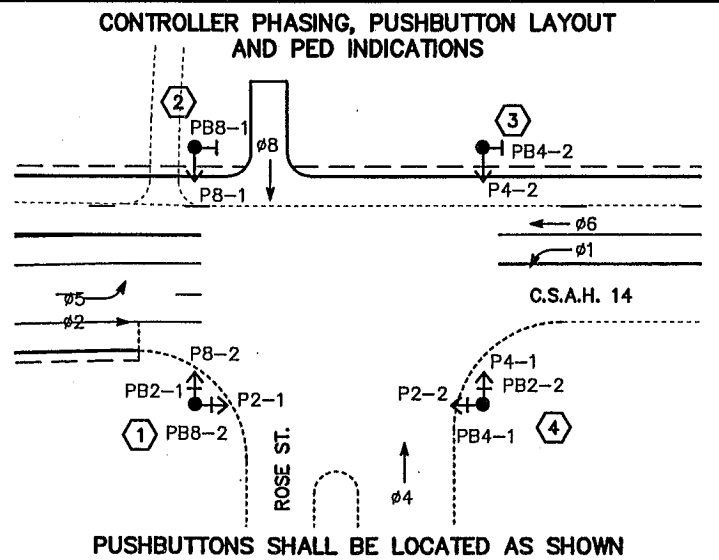
S.A.P. NO. 02-609-09

(14.01) R:\33889\33889028\33889E\SIGNALS\Main\1-imp.dwg

Dec 23, 1999



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.



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	●	●	●

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

- NOTES:**
- SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
 - EXACT LOCATION OF HANDHOLES, POLES, LOOP DETECTORS AND CABINET SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
 - ALL SIGNAL INDICATIONS SHALL HAVE GLASS LENSES.
 - EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
 - HANDHOLES SHALL BE CONCRETE.
 - LOOP DETECTORS SHALL BE INSTALLED IN NMC. SEE SPECIAL PROVISIONS.
 - PEDESTRIAN INDICATIONS SHALL BE 12" BY 12". SIGNS SHALL BE PROVIDED BY ANOKA COUNTY. SEE SPECIAL PROVISIONS.

* 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

THIS SHEET IN ENGLISH UNITS

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

S.P. 0212-40, ETC. SHEET 395 OF 593

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)

DESIGNER: B R W INC.
DATE: 4-18-98
REV. NO.: 1
DESIGN BY: RJK
DRAWN BY: JAS
CHECKED BY: RUG
LAYOUT DATE:

DESCRIPTION: PER ANOKA COUNTY COMMENTS

DESIGN FILE: 3193A10
DESIGNER: JAS
DRAWN BY: JAS
CHECKED BY: RUG
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 STATUTES SECTION 326.02 TO 326.16.

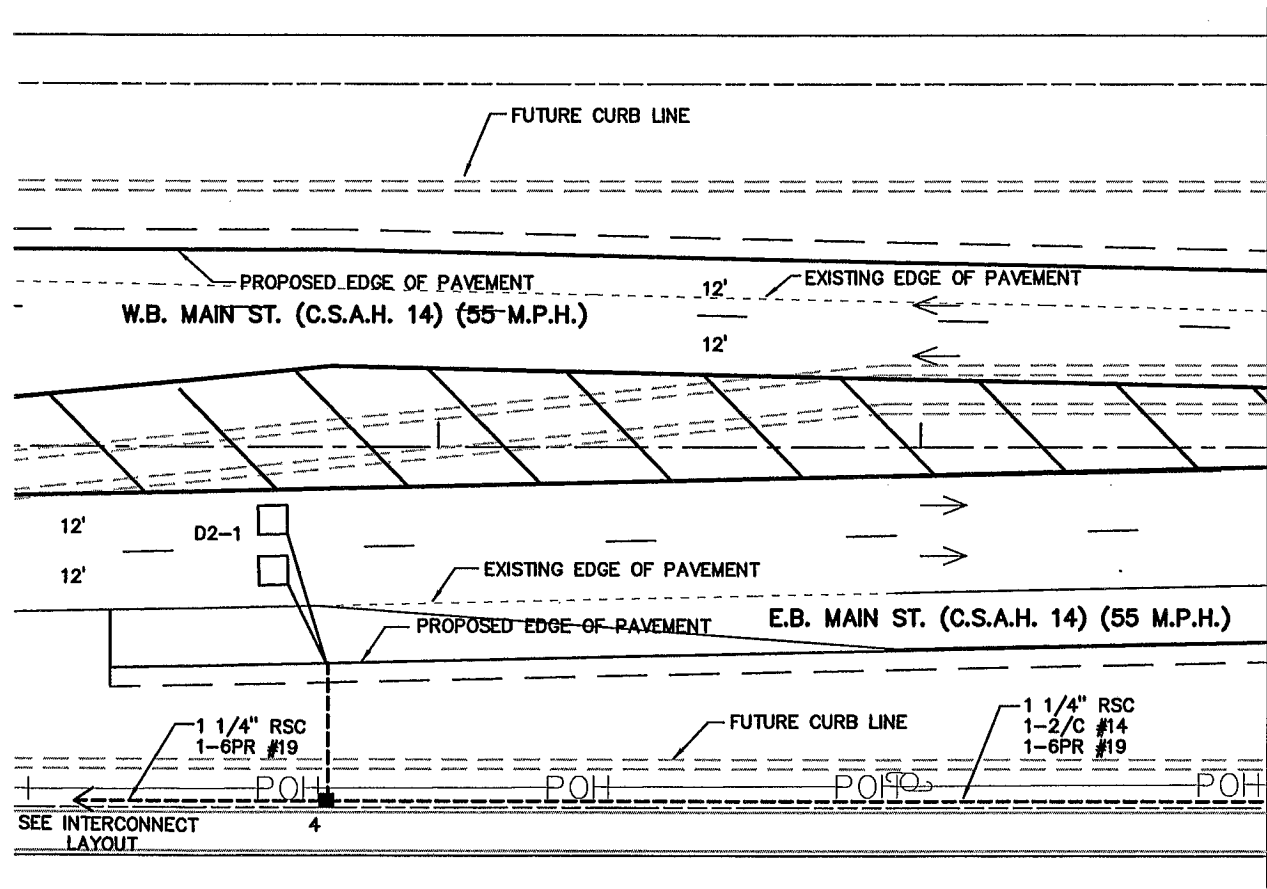
DATE: 4-18-98
MINN. REG. NO.: 22793

B R W INC.
 Traveler Square, 700 Third Street Sw.
 Minneapolis, MN 55415, Phone 612/570-0700, Fax 612/570-1578

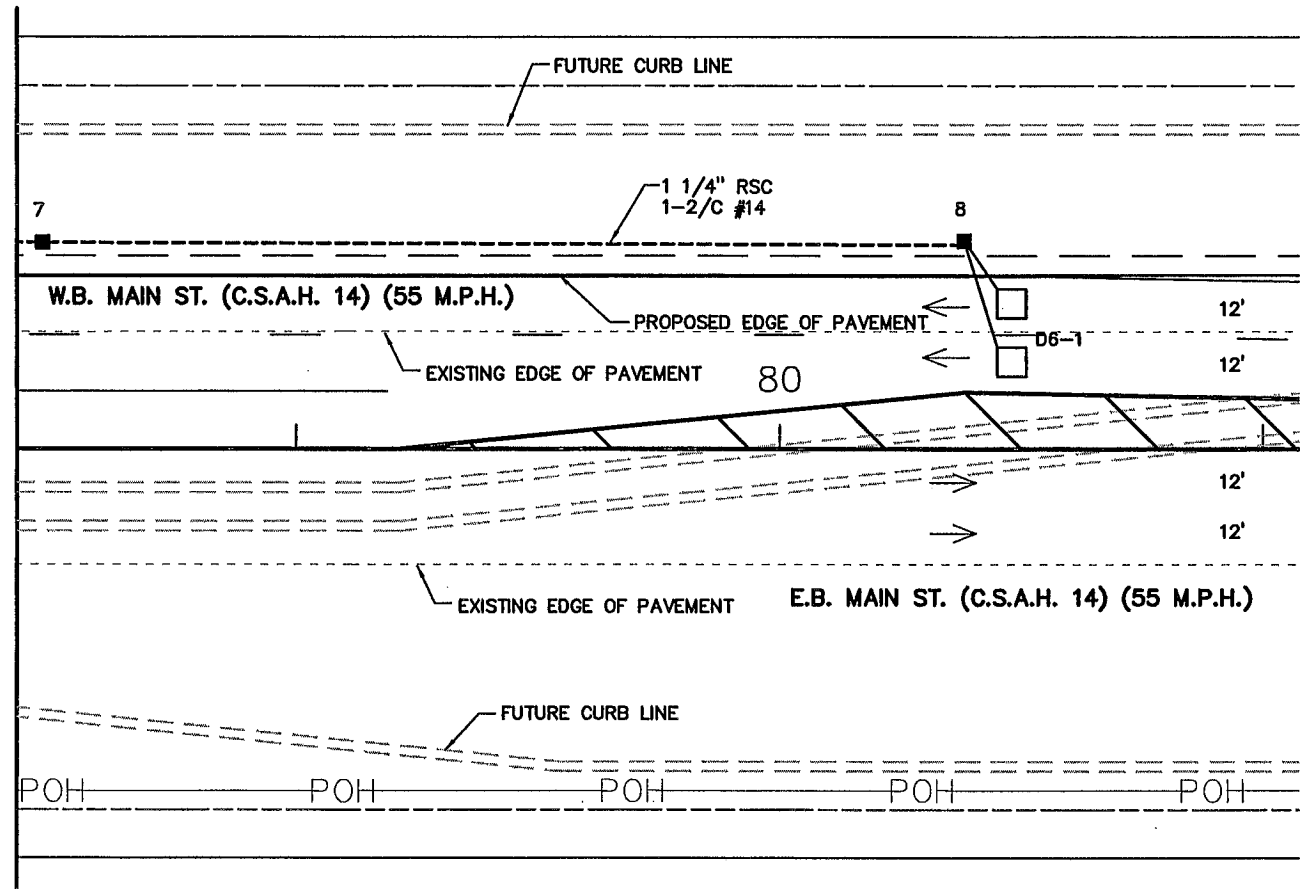
CITY OF COON RAPIDS
 TEMPORARY SIGNAL / STREET IMPROVEMENTS
 CITY-PROJECT 95-296
 C.S.A.H. / ROSE STREET INTERSECTION LAYOUT

SHEET NO.:

Dec 23, 1999 3:2 (14.01) R:\33889\33889028\33889E\SIGNALS\Main\1-imp2.dwg



MATCH LINE A - SEE SHEET 10



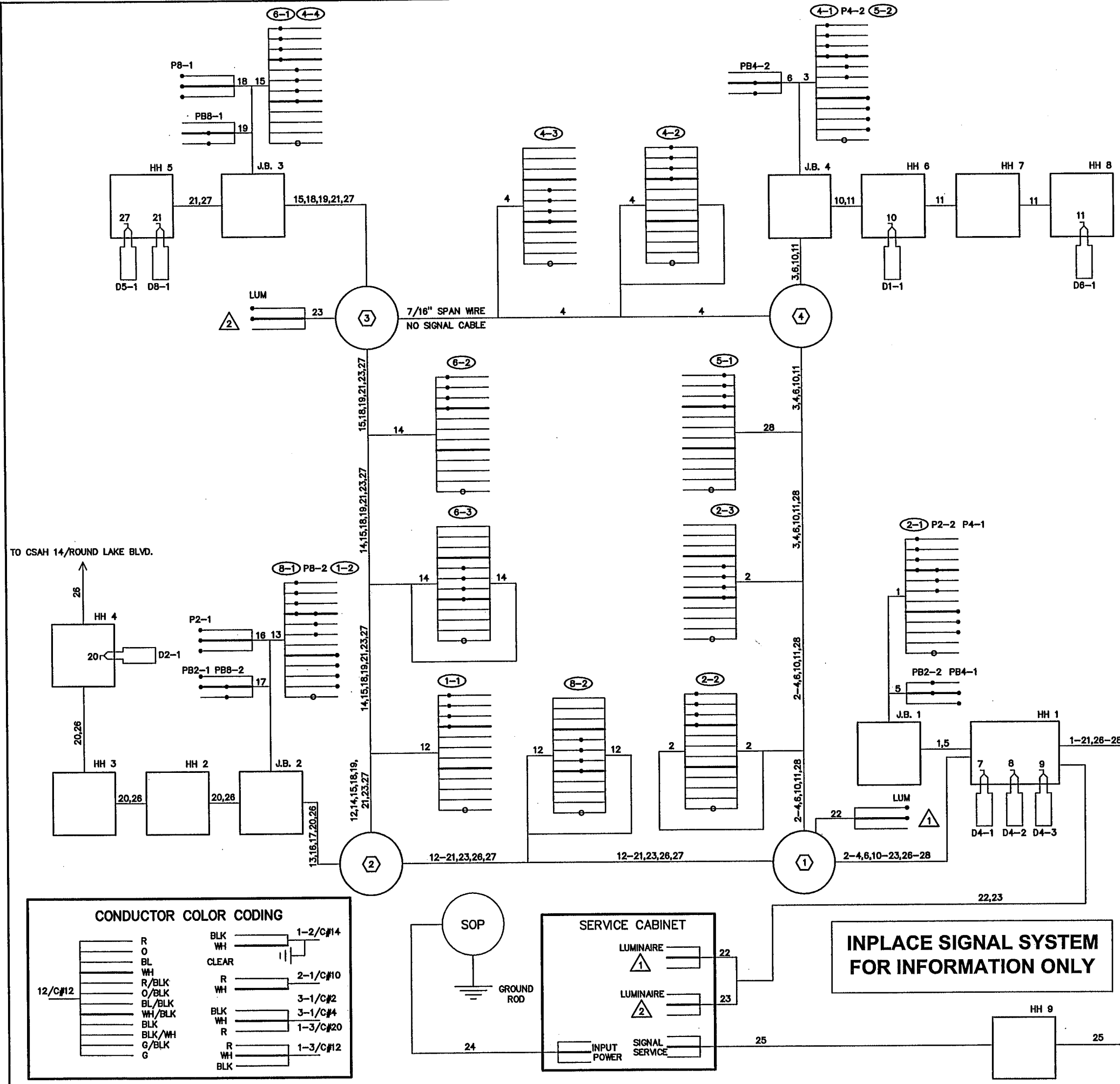
MATCH LINE B - SEE SHEET 10



THIS SHEET IN ENGLISH UNITS

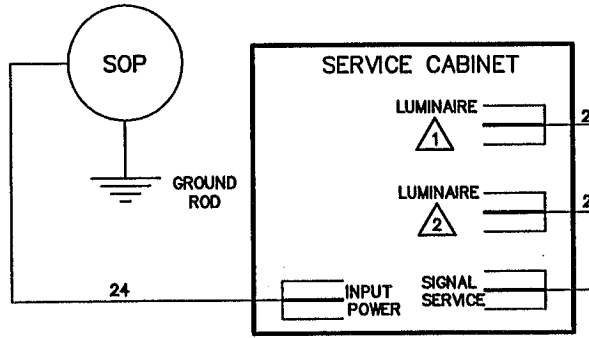
INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

DESIGN FILE: 3193A10		DATE: 4-18-98	DESCRIPTION: PER ANOKA COUNTY COMMENTS
REV. NO. 1	DESIGN BY: R/J	DATE:	
DRAWN BY: JAS	CHKD. BY: R/J	DWG. NAME: LAYOUT2	
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 STATUTES SECTION 326.02 TO 326.16.			DATE: 4-18-98 MINN. REG. NO. 22793
CITY OF COON RAPIDS TEMPORARY SIGNAL / STREET IMPROVEMENTS CITY PROJECT 95-296		B R W INC. Thresher Square, 700 Third Street So. Minneapolis, MN 55415, Phone 612/570-0700, Fax 612/570-1378	
C.S.A.H. 14 / ROSE STREET INTERSECTION LAYOUT		SHEET NO. 1	

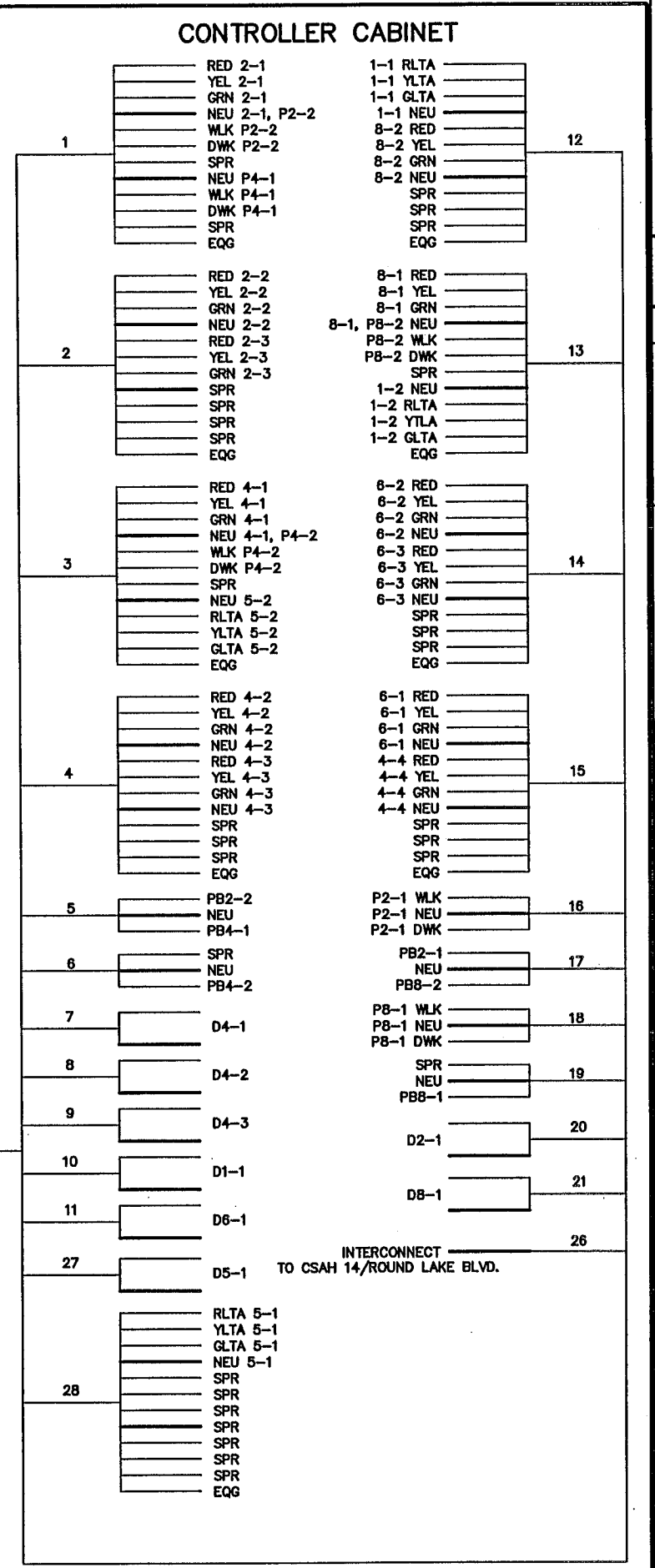


CONDUCTOR COLOR CODING

12/C#12	R	BLK	1-2/C#14
	O	WH	1-1
	BL	CLEAR	
	WH	R	2-1/C#10
	R/BLK	WH	3-1/C#2
	O/BLK	BLK	3-1/C#4
	BL/BLK	WH	1-3/C#20
	WH/BLK	R	
	BLK	R	1-3/C#12
	BLK/WH		
	G/BLK		
	G		



INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY



DESIGN FILE	3193A10
DESIGN BY	JAS
DRAWN BY	RUG
DATE	4-16-96
REV. NO.	1
DESCRIPTION	PER ANOKA COUNTY COMMENTS

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR CONTRACT DOCUMENT 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: 4-16-96 MINN. REG. NO. 22753

B R W INC.
Traveler Square, 700 Third Street So.
Minneapolis, MN 55415, Phone 612/870-0700, Fax 612/870-1578

CITY OF COON RAPIDS
TEMPORARY SIGNAL / STREET IMPROVEMENTS
CITY PROJECT 95-296
C.S.A.H. 14 / ROSE STREET
FIELD WIRING DIAGRAM

SHEET NO. 397 OF 539

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

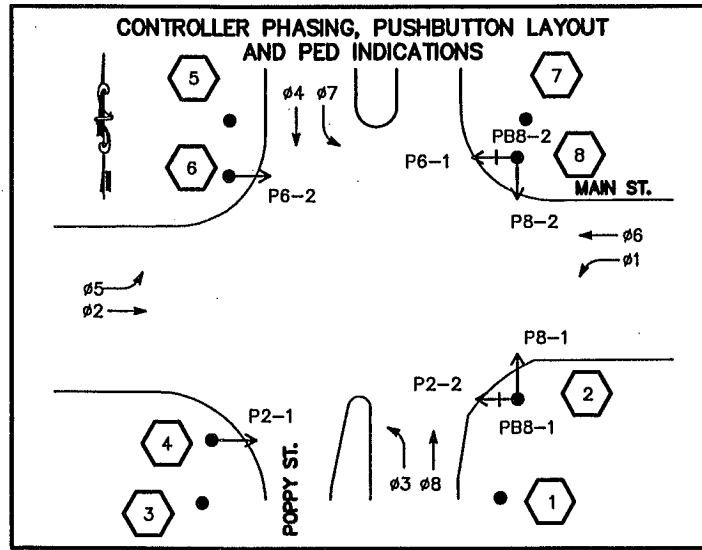
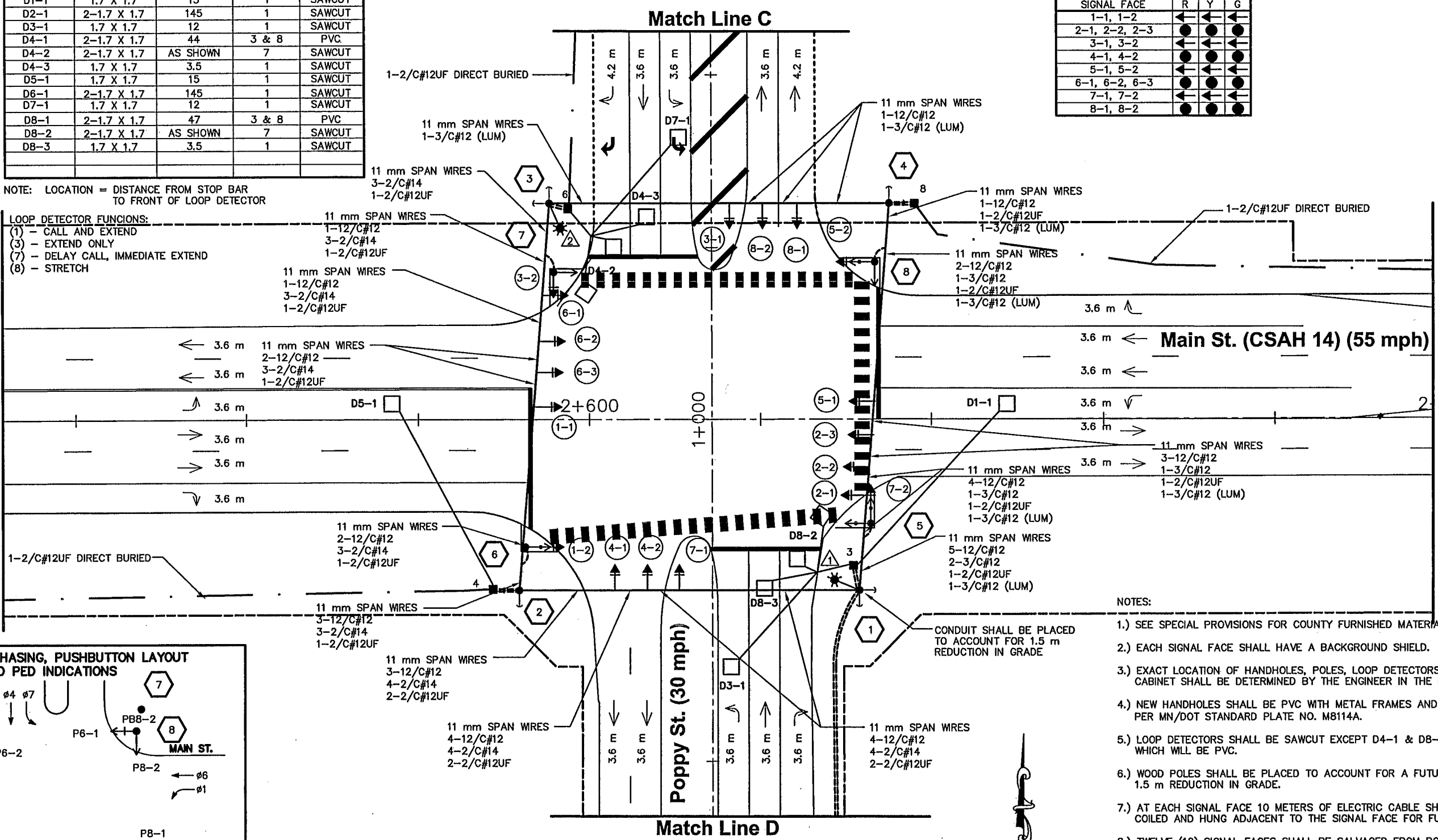
SIGNAL FACES			
ALL INDICATIONS SHALL BE 300 mm			
SIGNAL FACE	R	Y	G
1-1, 1-2	←	←	←
2-1, 2-2, 2-3	●	●	●
3-1, 3-2	←	←	←
4-1, 4-2	●	●	●
5-1, 5-2	←	←	←
6-1, 6-2, 6-3	●	●	●
7-1, 7-2	←	←	←
8-1, 8-2	●	●	●

NOTE: LOCATION = DISTANCE FROM STOP BAR TO FRONT OF LOOP DETECTOR

- LOOP DETECTOR FUNCTIONS:
- (1) - CALL AND EXTEND
 - (3) - EXTEND ONLY
 - (7) - DELAY CALL, IMMEDIATE EXTEND
 - (8) - STRETCH

Match Line A

Match Line B

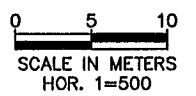


SIGNAL SYSTEM OPERATION

- 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

- 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 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.



PLOT DATE: Dec 23, 1999 DISK FILE NAME: (14.01) R:\33889\33889028\33889028\SIGNALS\Main\2-imp.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	RJG	5/20/99	ADDENDUM NO. 1

DESIGN FILE: 33889028	XREF DRAWINGS
DRAWN BY: JAS	DESIGN BY: JRN
CHKD. BY: R/JG	DWG. NAME: RLBS105
DATE: MAY 20, 1999	

DCM GROUP
BRW
A DAMES & MOORE GROUP COMPANY

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

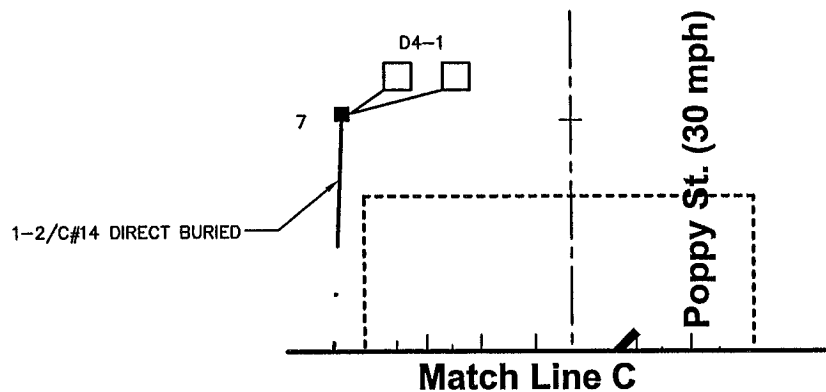
ROUND LAKE BOULEVARD IMPROVEMENT PROJECT
SIGNAL SYSTEM "D"
MAIN ST. (T.H. 242) / POPPY ST.
INTERSECTION LAYOUT

CITY PROJECT	99-18	SHEET NO.
COUNTY PROJECT		398
S.P.		
S.A.P.		539

S.P. 0212-40, ETC. SHEET OF

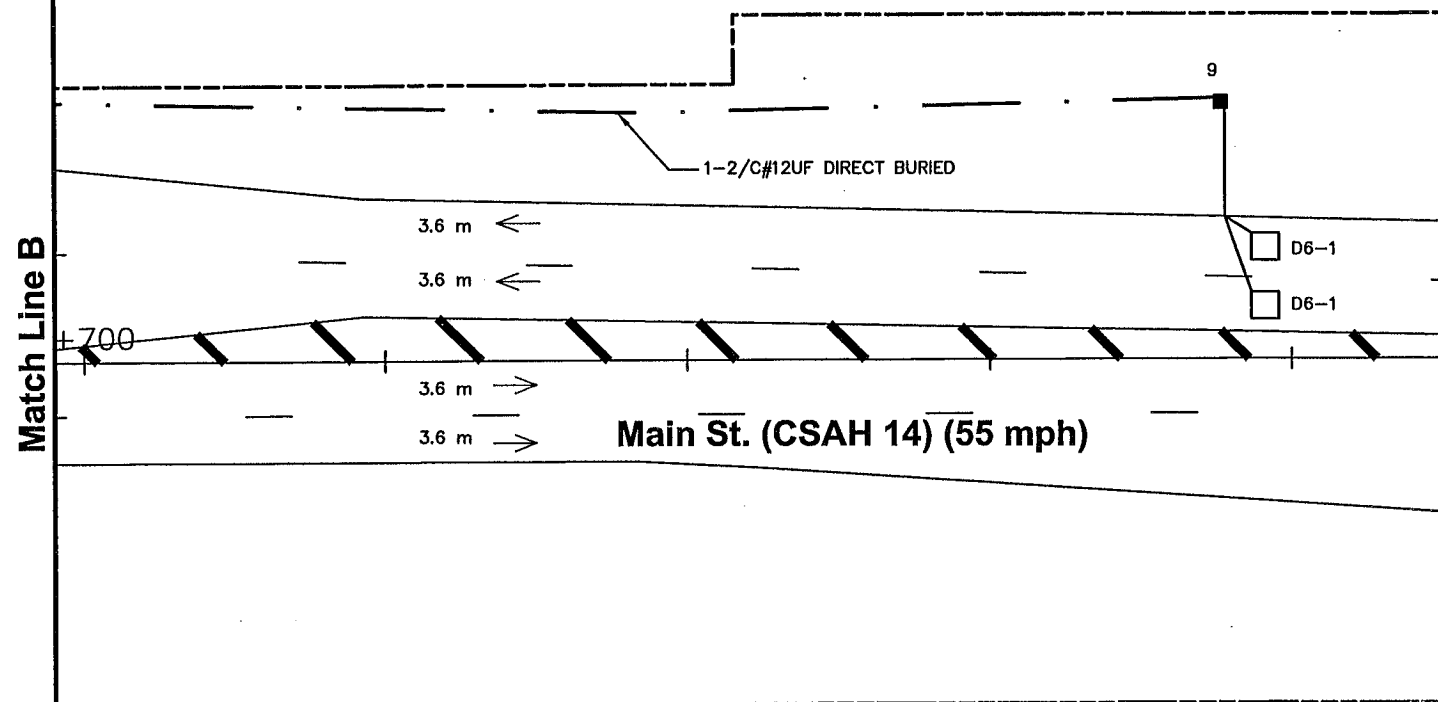
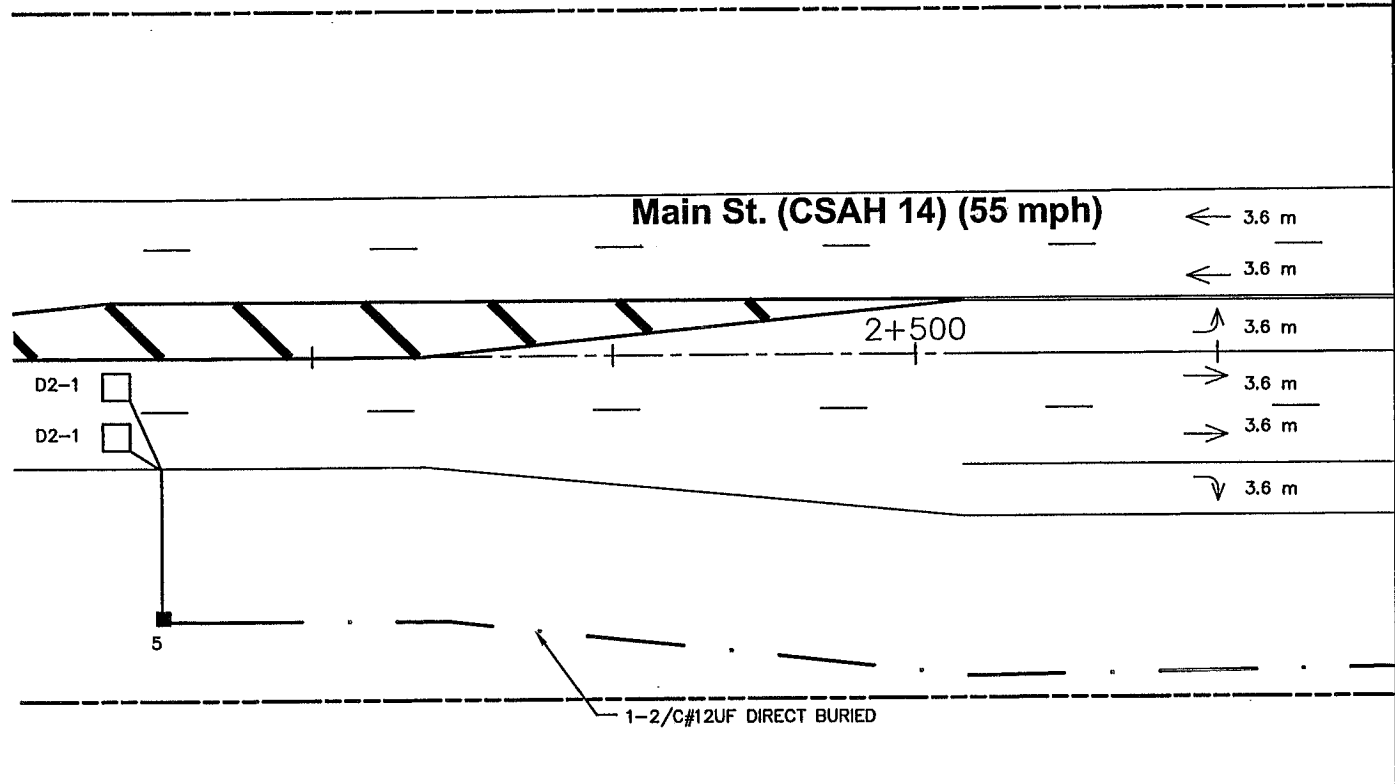
- 1 16.8 m WOOD POLE CL 2
2 - DOWNGUY, GUARD AND ANCHOR
4.5 m LUMINAIRE MAST ARM
LUMINAIRE - 250 W H.P.S. WITH P.E.C. AND CHECK SWITCH
- METAL JUNCTION BOX #1
35 mm RSC BELOW J.B. #1 TO HH 3
4-2/C#14
- 53 mm RISER AND WEATHERHEAD ABOVE J.B. #1
4-2/C#14
- 2 - 78 mm RSC RISERS AND WEATHERHEADS TO HH 1
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



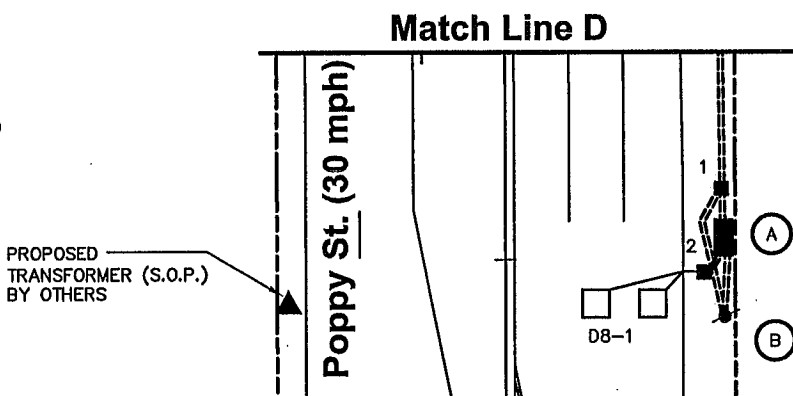
- 5 PEDESTAL FOUNDATION PEDESTAL POLE & BASE
1 - TYPE 1D PEDESTAL MOUNTED
1 - PEDESTRIAN PUSHBUTTON
- AERIAL CONNECTION TO SPAN WIRE:
1-12/C#12
1-3/C#12
- 6 PEDESTAL FOUNDATION PEDESTAL POLE & BASE
1 - TYPE 1C PEDESTAL MOUNTED
1 - "DO NOT CROSS" SIGN (R9-3A) FACING POLE NO. 7
- AERIAL CONNECTION TO SPAN WIRE:
1-12/C#12

- 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
- 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)

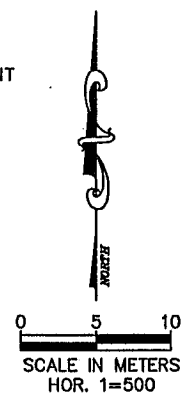
- 4 16.8 m WOOD POLE CL 2
2 - DOWNGUY, GUARD AND ANCHOR
- METAL JUNCTION BOX #4
35 mm RSC BELOW J.B. #4 TO HH 8
1-2/C#12UF
- 53 mm RSC RISER AND WEATHERHEAD ABOVE J.B. 4
1-2/C#12UF



- 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	XREF DRAWINGS
DRAWN BY: JAS	DESIGN BY: JRN
CHKD. BY: RJG	DWG. NAME: RLBSI06
DATE: MAY 20, 1999	

DCM GROUP **BRW**
A DAMES & MOORE GROUP COMPANY

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 320.02 TO 320.16.

Robert J. Green

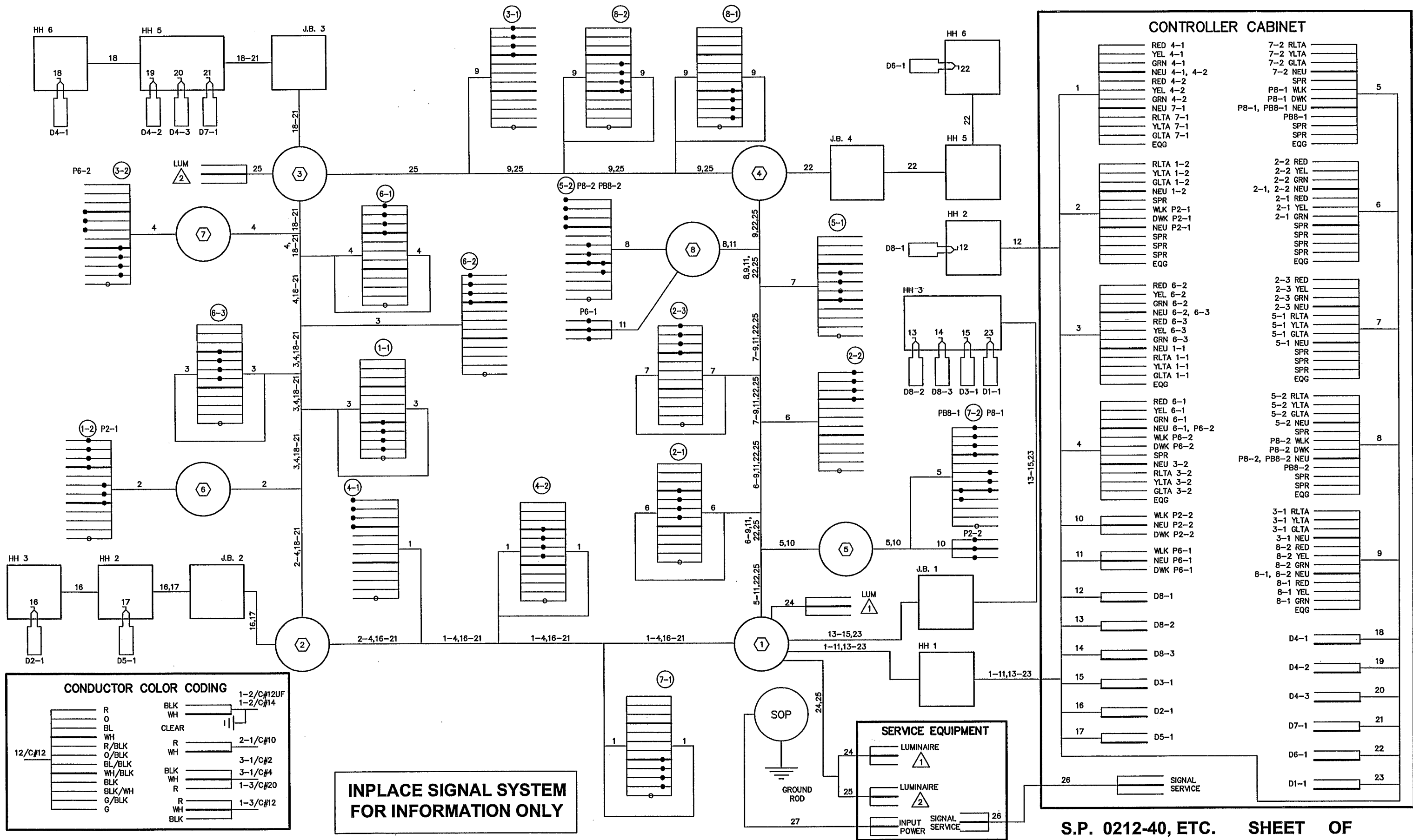
DATE: 5/20/99 MINN. REG. NO. 22793

ROUND LAKE BOULEVARD IMPROVEMENT PROJECT
SIGNAL SYSTEM "D"
MAIN ST. (T.H. 242) / POPPY ST.
INTERSECTION LAYOUT (MATCHLINES)

CITY PROJECT	99-18
COUNTY PROJECT	
S.P.	
S.A.P.	

SHEET NO.	399
	539

DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\2-1hp3.dwg
PLOT DATE: Dec 23, 1999



S.P. 0212-40, ETC. SHEET OF

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	RJG	5/20/99	ADDENDUM NO. 1

DESIGN FILE: 338890300101	XREF DRAWINGS
DRAWN BY: JAS	DESIGN BY: JRN
CHKD. BY: RJG	DWG. NAME: RLBSIO9
DATE: MAY 20, 1999	

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 A. Green

DATE: 5/20/99 MINN. REG. NO. 22793

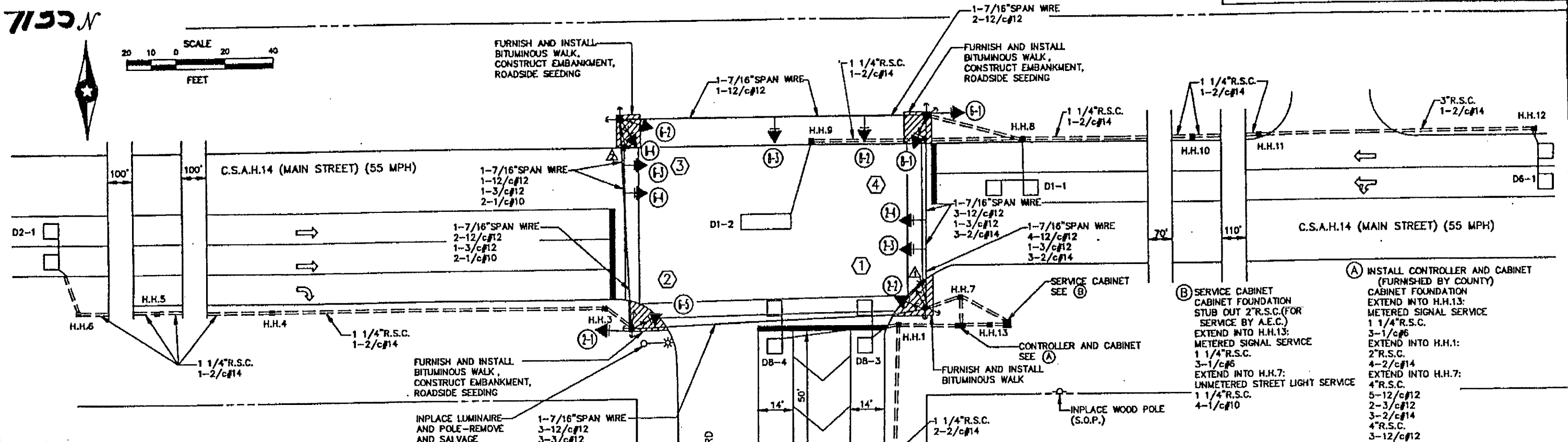
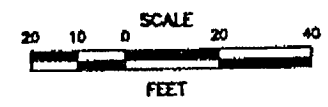
ROUND LAKE BOULEVARD IMPROVEMENT PROJECT
SIGNAL SYSTEM "D"
MAIN ST. (CSAH 14) / POPPY ST.
FIELD WIRING DIAGRAM

CITY PROJECT	99-18	SHEET NO.	400
COUNTY PROJECT			
S.P.			
S.A.P.			

539

ALL QUANTITIES AND DIMENSIONS ON PLAN ARE IN METRIC UNITS.

7735



- 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. B117F.
 - 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.

- 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 (PB-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 (8-2)
TYPE 10B-WOOD POLE MOUNTED (8-4, PB-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 (6-3).
METAL JUNCTION BOX
2"R.S.C. RISER AND WEATHERHEAD ABOVE JUNCTION BOX
2-12/c#12
1-3/c#12

- 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 (PB-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
- 4) INSTALL 45' WOOD POLE-CLASS 2 (FURNISHED BY COUNTY)
2-DOWN GUYS, GUY GUARDS AND SCREW ANCHORS
TYPE 10B-WOOD POLE MOUNTED (8-1, PB-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

SIGNAL INDICATIONS

FACE	PHASE	FLASH	SIGNAL FACES (SIZE IN INCHES)				
			R	Y	G	Y/LTA	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		

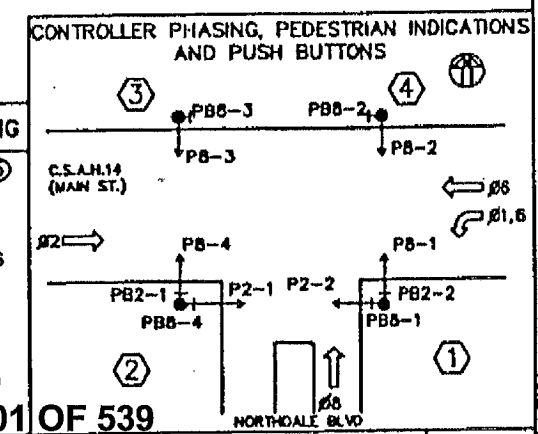
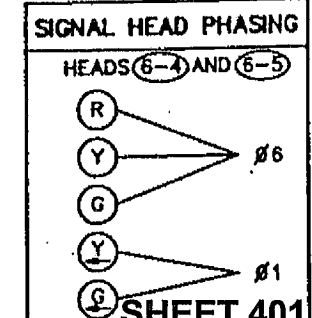
LOOP DETECTORS

NUMBER	SIZE (FT)	LOCATION	FUNCTION
D1-1	2-8x6	20'	7,8,11
D1-2	6x20	60'	3,12
D2-1	2-8x6	405'	1
D6-1	2-8x6	405'	1
D8-1	6x12	120'	3,6
D8-2	6x12	120'	3,6
D8-3	2-6x6	5'	7
D8-4	2-6x6	5'	1

- 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

THIS SHEET IN ENGLISH UNITS

INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY



NOTE: LOCATION = DISTANCE FROM STOP BAR TO LOOP DETECTOR.

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. Ell
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 J. Schwandt
Date: 9/18/92 Reg. No. 20843



ANOKA COUNTY, MINNESOTA
CITY OF COON RAPIDS

TRAFFIC SIGNAL SYSTEM
INTERSECTION LAYOUT
CSAH 14 (MAIN STREET) AT NORTHDAL E BOULEVARD

FILE NO. 92219
DATE 9/18/92

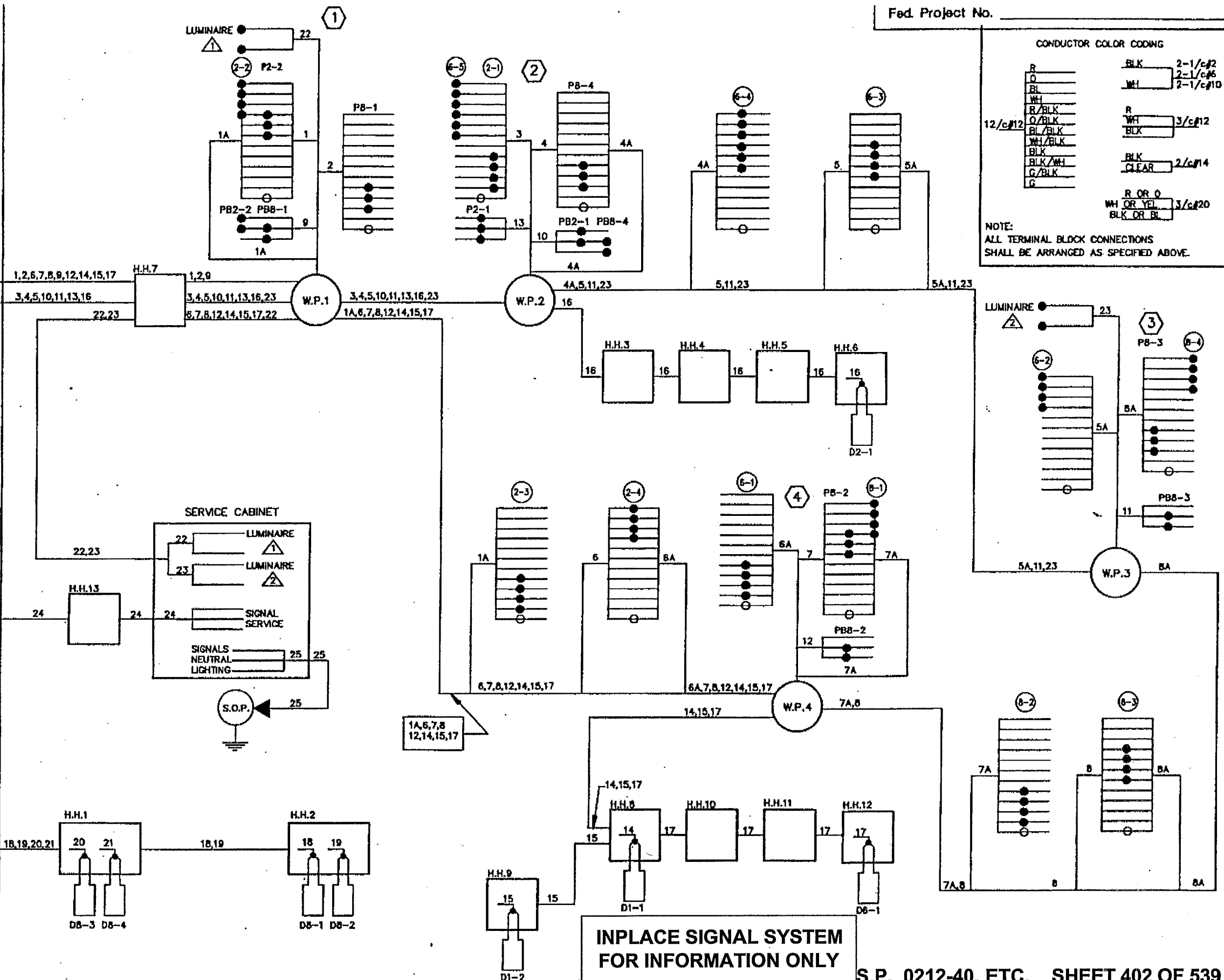
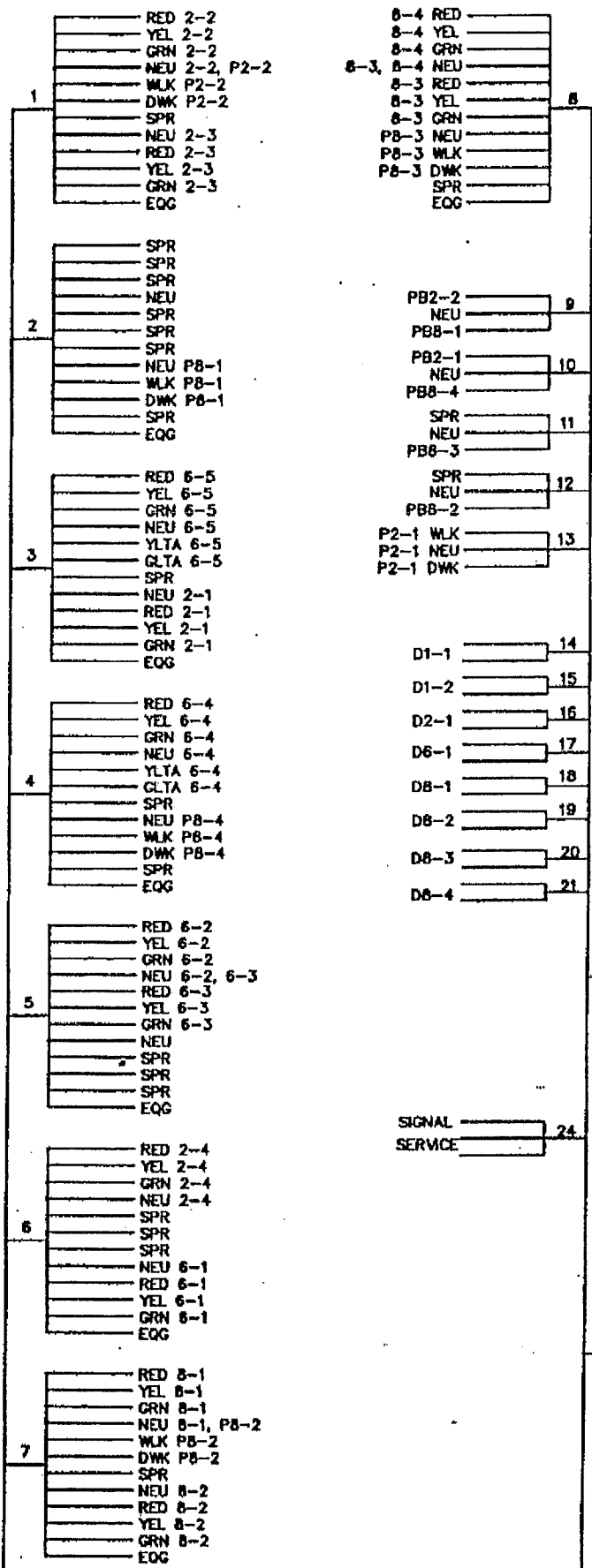
PLOT DATE: Dec 23, 1999 3:41pm DISK FILE NAME: (14-01) R:\33889\33889028\33889E\SIGNALS\Main\3-1np.dwg

CONTROLLER CABINET

CONDUCTOR COLOR CODING

R	BLK	2-1/c#2
O	WH	2-1/c#6
BL	WH	2-1/c#10
WH	R	
R/BLK	WH	3/c#12
O/BLK	BLK	
BL/BLK	BLK	
WH/BLK	BLK	
BLK	BLK	2/c#14
BLK/WH	CLEAR	
G/BLK		
G		
R OR O		
WH OR YEL		3/c#20
BLK OR BL		

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

PLOT DATE: Dec 23, 1999 3:43pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\3-imp2.dwg

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. Ellan
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. Schwartz
Date: 9/18/92 Reg. No. 20243



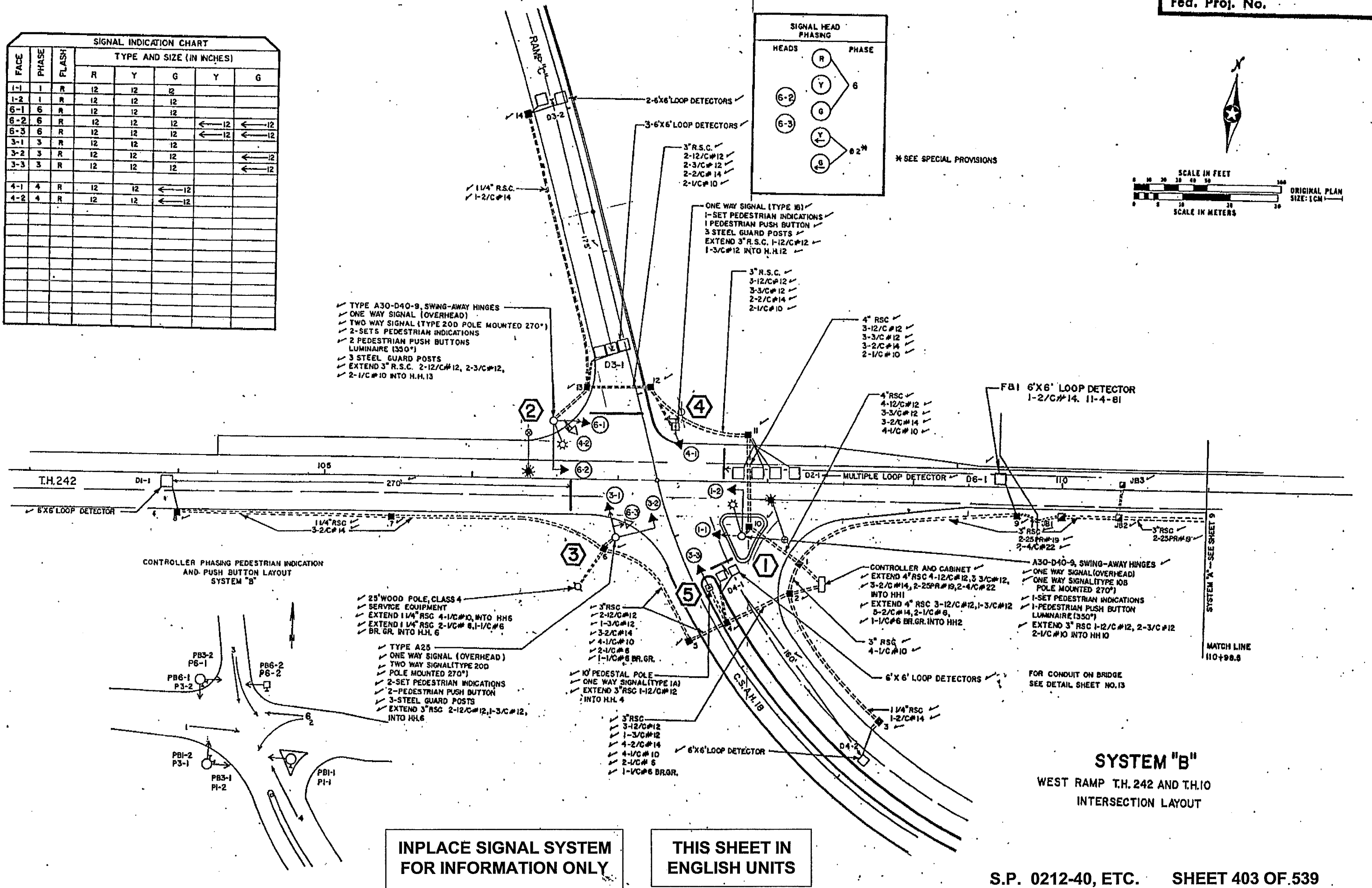
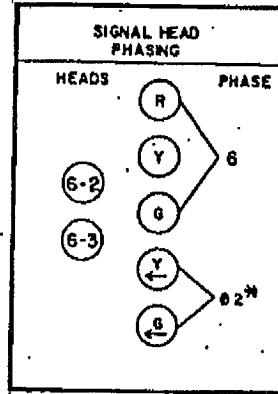
ANOKA COUNTY, MINNESOTA
CITY OF COON RAPIDS

TRAFFIC SIGNAL SYSTEM
FIELD WIRING DIAGRAM
CSAH 14 (MAIN STREET) AT NORTHDAL BOULEVARD

FILE NO. 92210
DATE 9/18/92

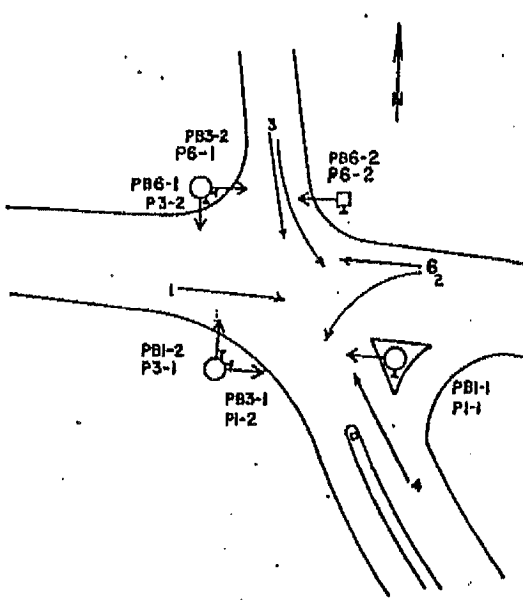
NO.	BY	DATE	REVISIONS

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		←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	



- TYPE A30-D40-9, SWING-AWAY HINGES
- ONE WAY SIGNAL (OVERHEAD)
- TWO WAY SIGNAL (TYPE 200 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

CONTROLLER PHASING PEDESTRIAN INDICATION AND PUSH BUTTON LAYOUT SYSTEM "B"



- 25' WOOD POLE, CLASS 4
- SERVICE EQUIPMENT
- EXTEND 1 1/4" R.S.C. 4-1/C#10, INTO HH6
- EXTEND 1 1/4" R.S.C. 2-1/C#8, 1-1/C#6 BR. GR. INTO H.H. 6
- TYPE A25
- ONE WAY SIGNAL (OVERHEAD)
- TWO WAY SIGNAL (TYPE 200 POLE MOUNTED 270°)
- 2-SET PEDESTRIAN INDICATIONS
- 2-PEDESTRIAN PUSH BUTTON
- 3-STEEL GUARD POSTS
- EXTEND 3" R.S.C. 2-12/C#12, 1-3/C#12, INTO H.H.6

- 3" R.S.C. 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" R.S.C. 1-12/C#12 INTO H.H. 4

- 3" R.S.C. 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.

- CONTROLLER AND CABINET
- EXTEND 4" R.S.C. 4-12/C#12, 3-3/C#12, 3-2/C#14, 2-25PR#19, 2-4/C#22 INTO HH1
- EXTEND 4" R.S.C. 3-12/C#12, 1-3/C#12
- 5-2/C#14, 2-1/C#6, 1-1/C#6 BR. GR. INTO HH2

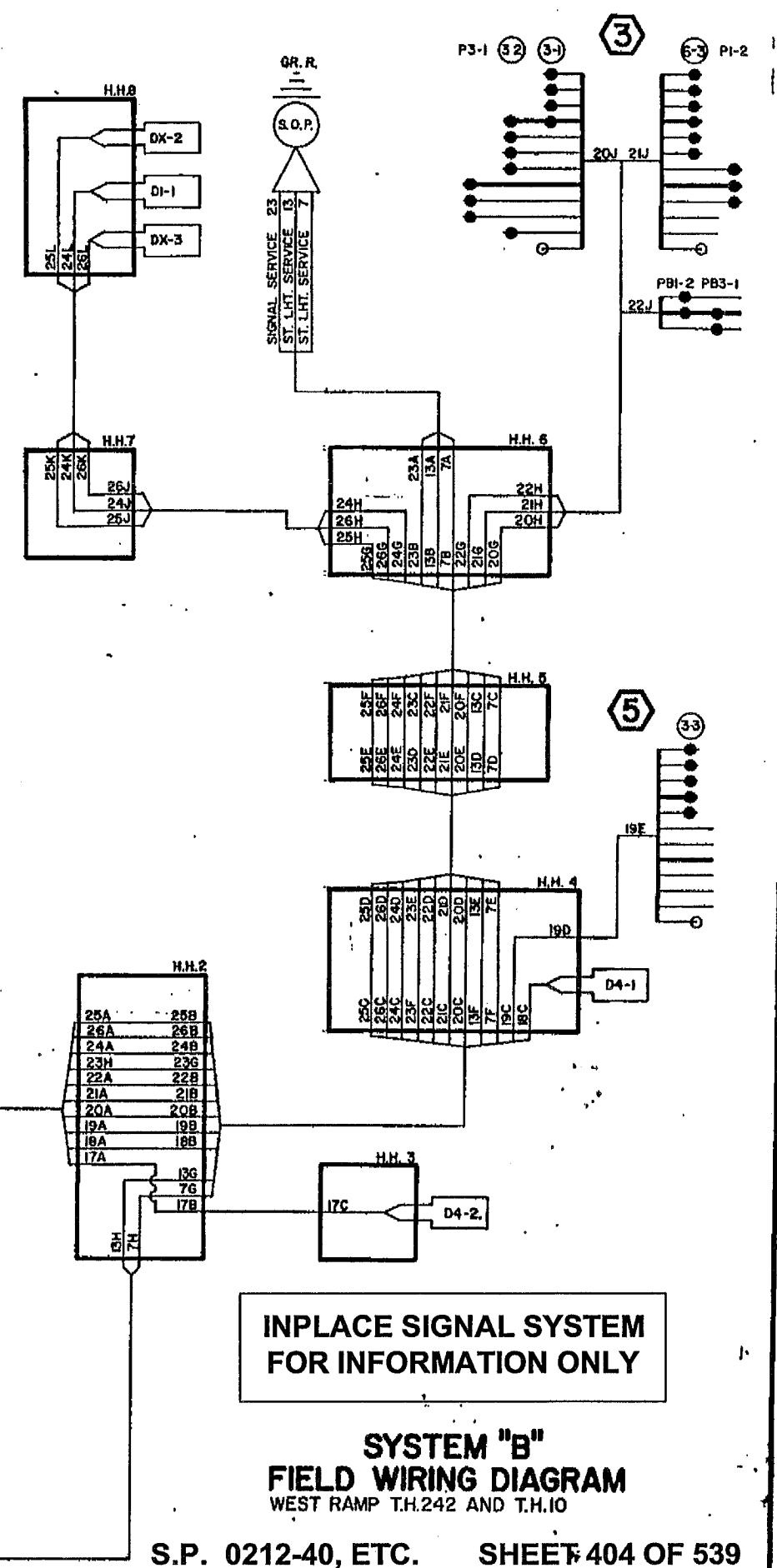
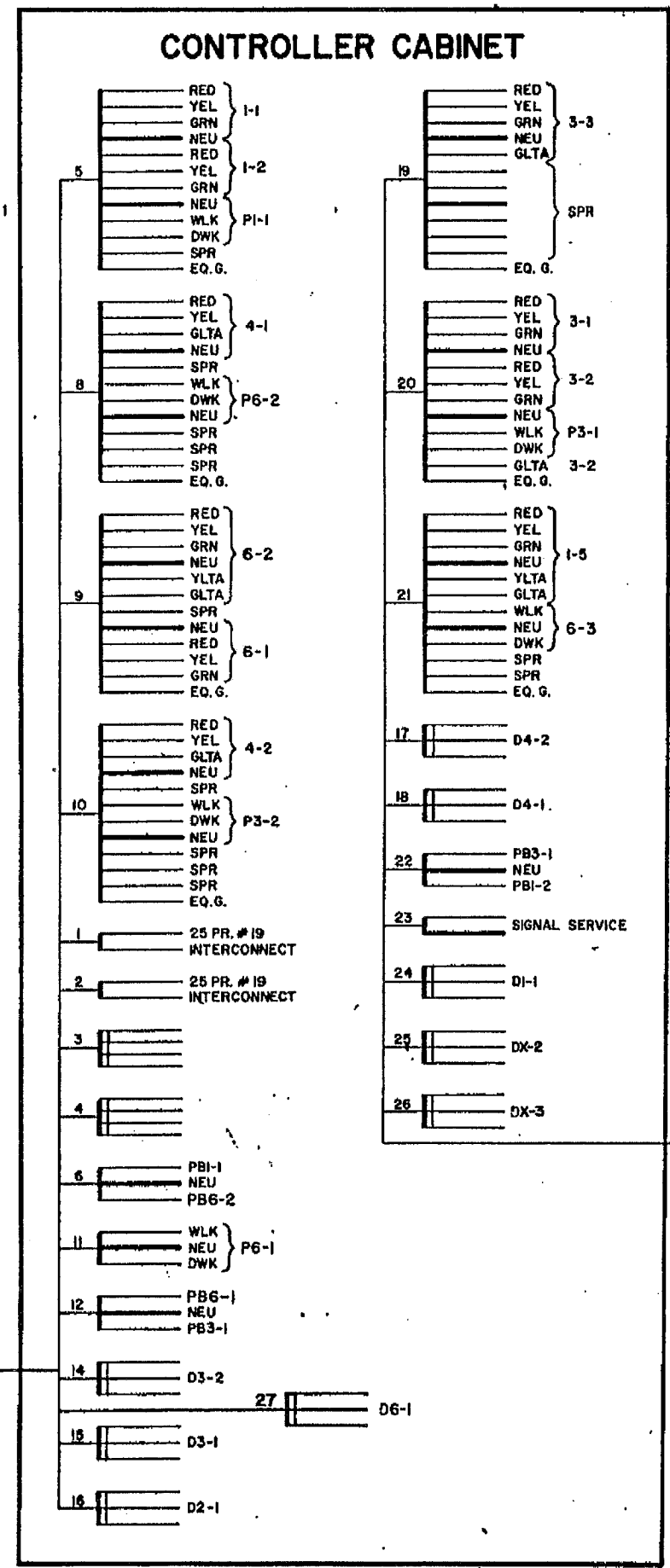
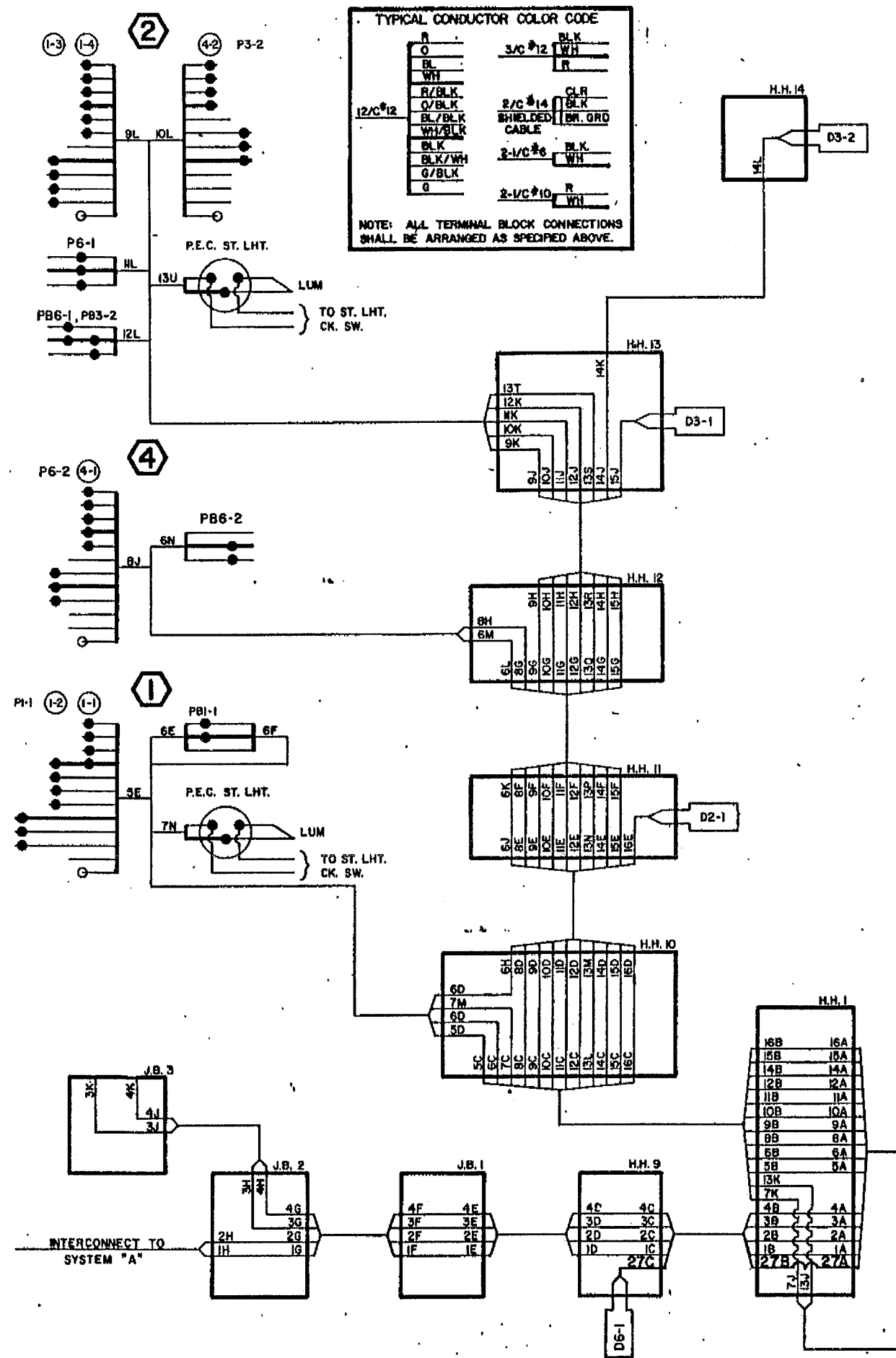
- A30-D40-9, SWING-AWAY HINGES
- ONE WAY SIGNAL (OVERHEAD)
- ONE WAY SIGNAL (TYPE 10B POLE MOUNTED 270°)
- 1-SET PEDESTRIAN INDICATIONS
- 1-PEDESTRIAN PUSH BUTTON LUMINAIRE (350°)
- EXTEND 3" R.S.C. 1-12/C#12, 2-3/C#12, 2-1/C#10 INTO HH10

FOR CONDUIT ON BRIDGE SEE DETAIL SHEET NO.13

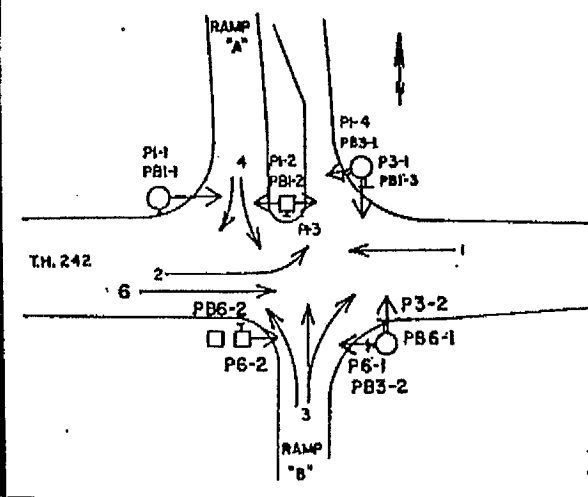
SYSTEM "A" - SEE SHEET 9

MATCH LINE 110+98.8

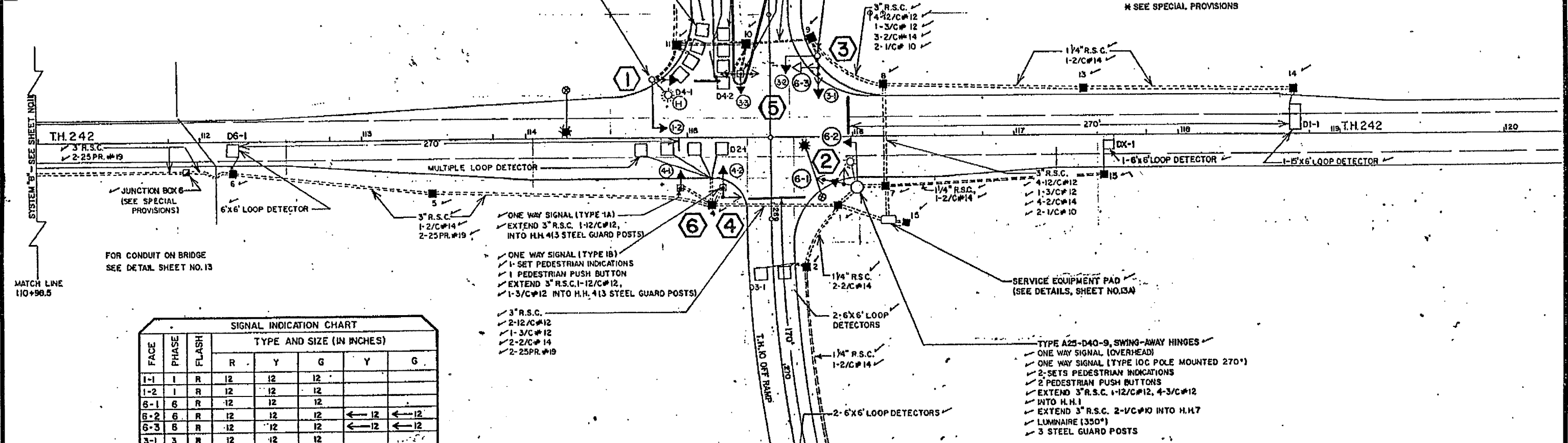
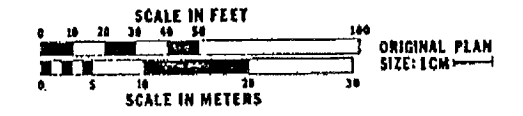
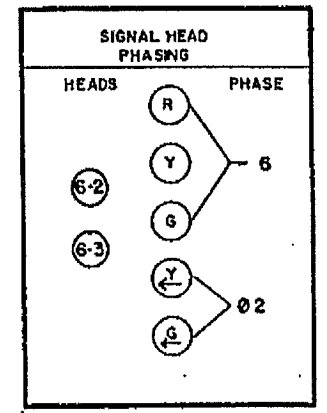
PLOT DATE: Dec 23 3:45pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\5-imp2.dwg



CONTROLLER PHASING PEDESTRIAN INDICATION AND PUSH BUTTON LAYOUT SYSTEM "A"



- 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



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 →
4-2	4	R	12	12	12		← 12

I HEREBY CERTIFY THAT SHEETS A THROUGH DI 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. Pyle

DATE 11/6/76 REG. NO. 10712
 DESIGN SQUAD D. EDSTROM

SYSTEM "A"
 EAST RAMP TH.242 AND T.H.10
 INTERSECTION LAYOUT

INPLACE SIGNAL SYSTEM
 FOR INFORMATION ONLY

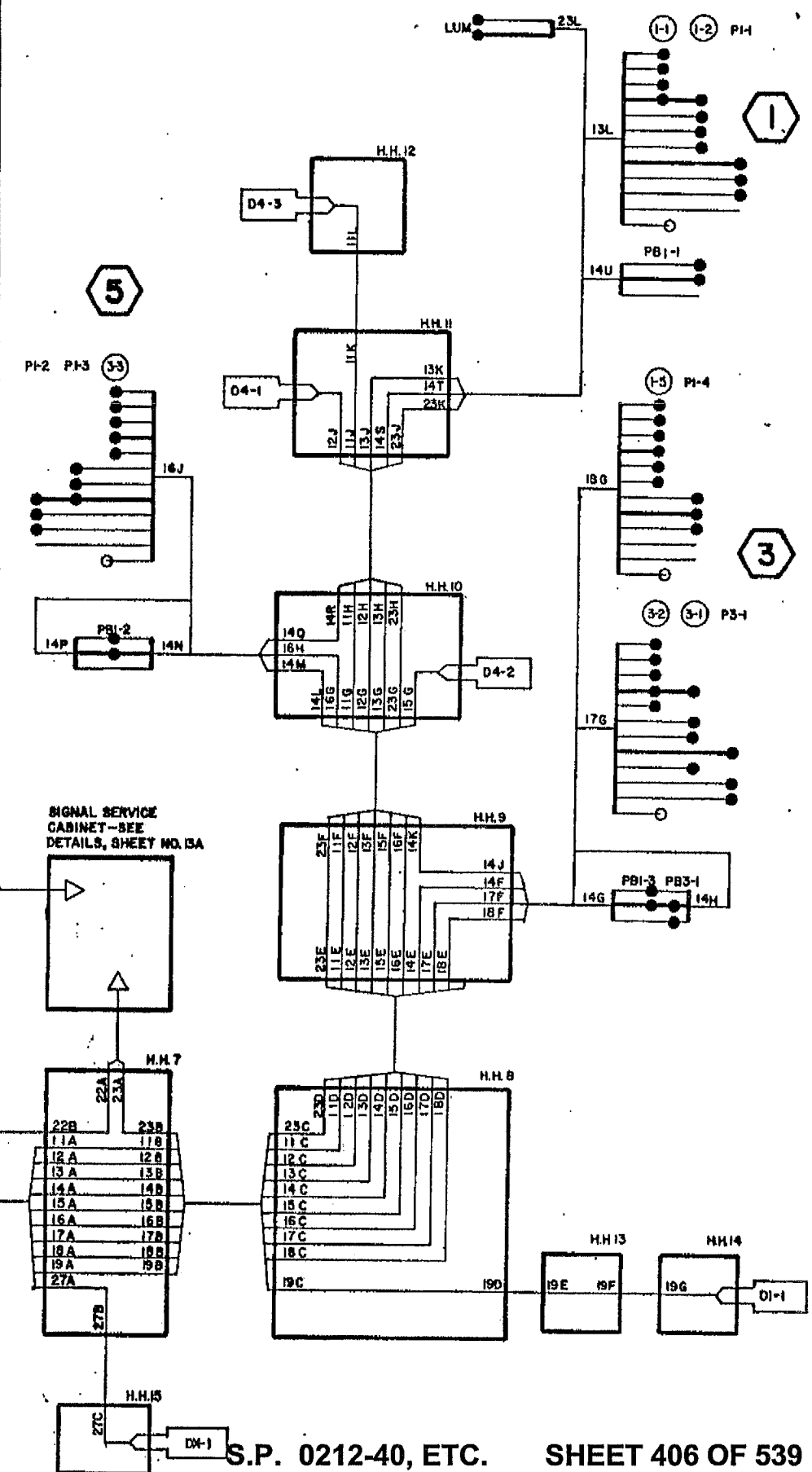
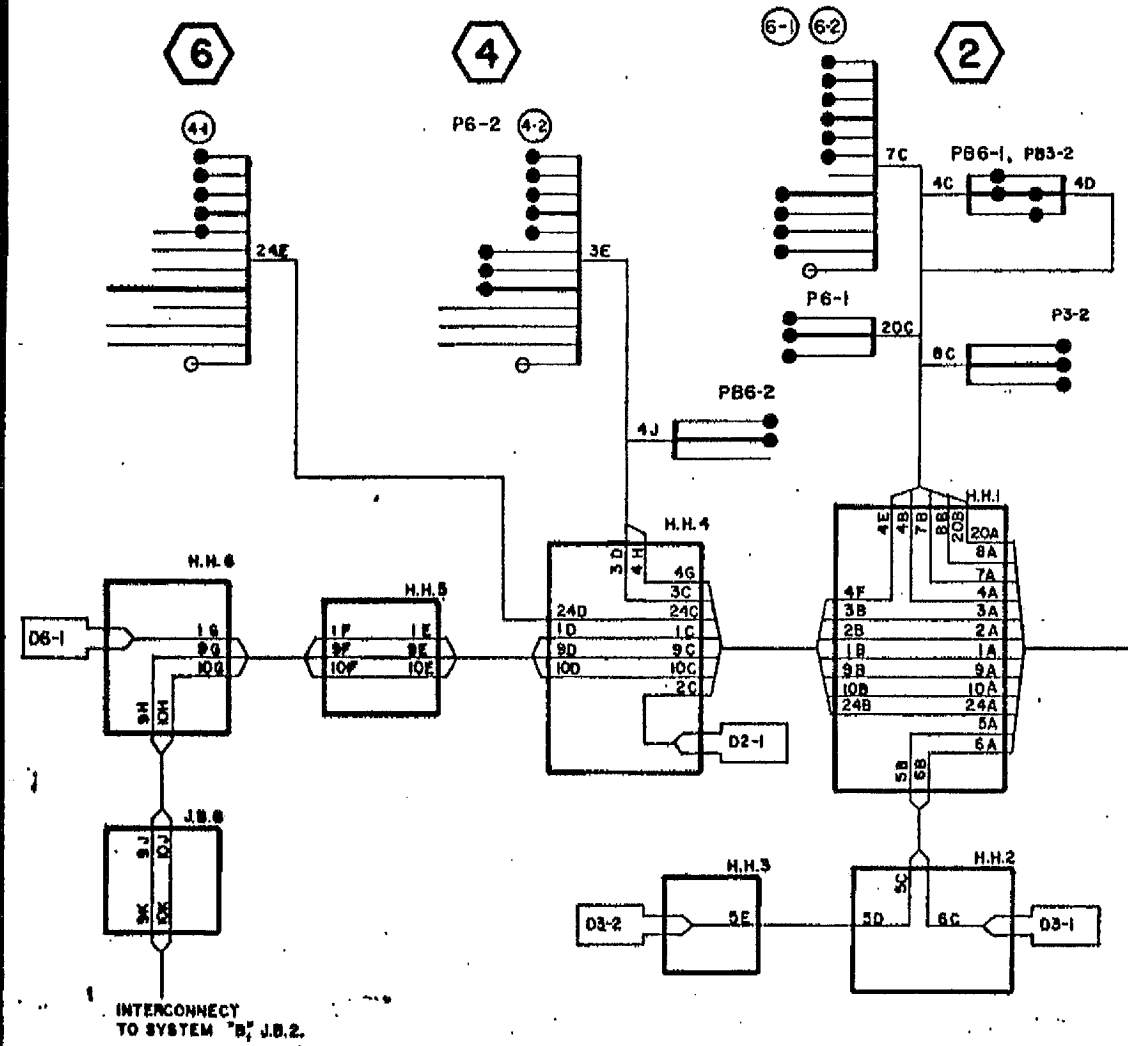
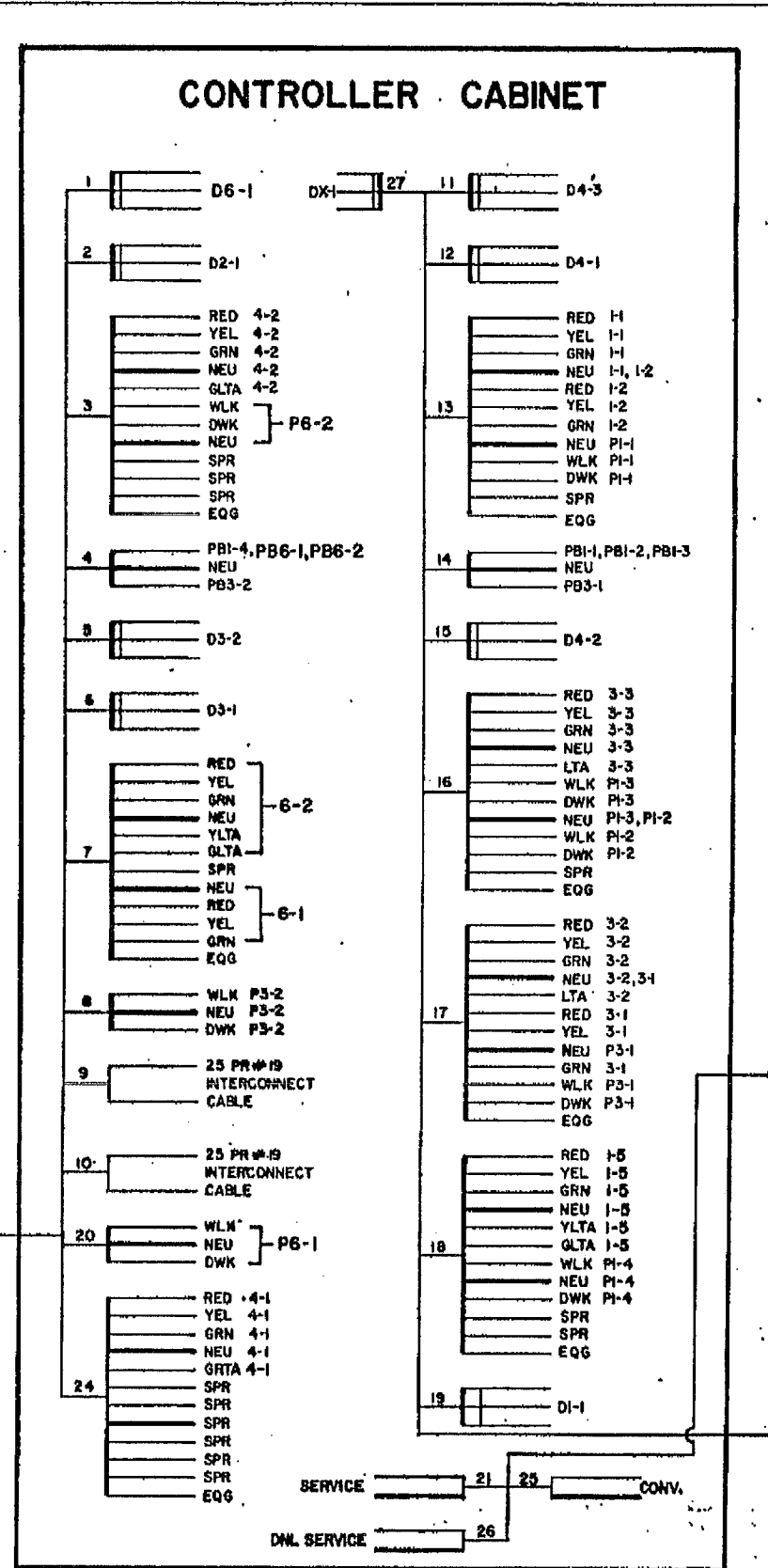
THIS SHEET IN
 ENGLISH UNITS

PLOT DATE: Dec 25, 1977 DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\6-imp.dwg

TYPICAL CONDUCTOR COLOR CODE

R	3/C#12	BLK
O		WH
BL		R
WH		CLR
R/BLK	2/C#14	BLK
O/BLK		BLK
BL/BLK		SHIELDED 1 PR. GRD
WH/BLK		CABLE
BLK	2-1/C#6	BLK
BLK/WH		WH
O/BLK		R
0	2-1/C#10	WH

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE.



SYSTEM "A"
- EAST RAMP TH 242 & TH 10 FIELD WIRING DIAGRAM

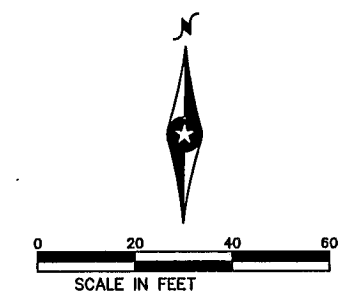
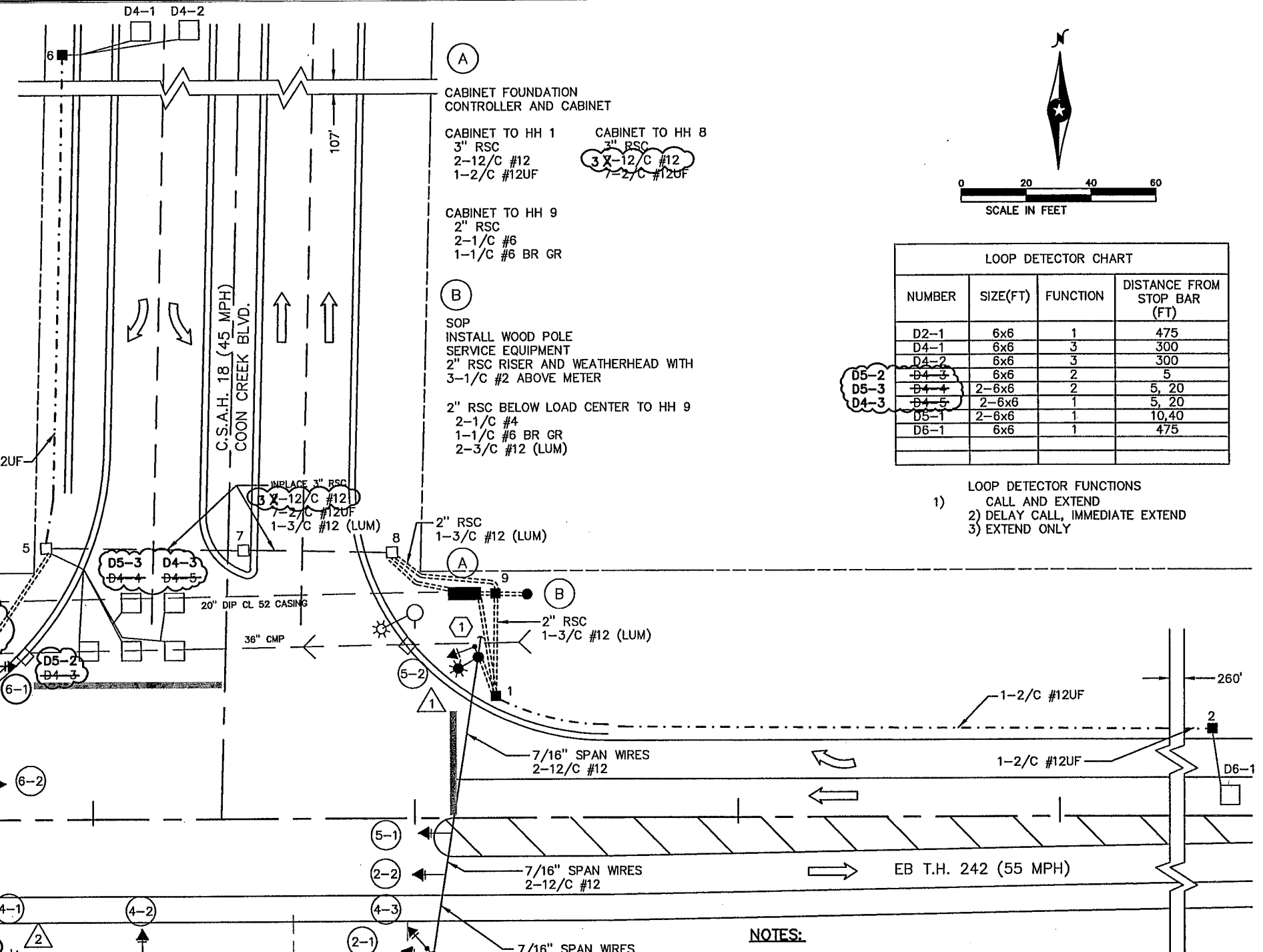
INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

PLOT DATE: Dec 23, 1999 3:54pm. DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\6-imp2.dwg.

PLOT DATE: Dec 2, 3:56pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\7-imp.dwg

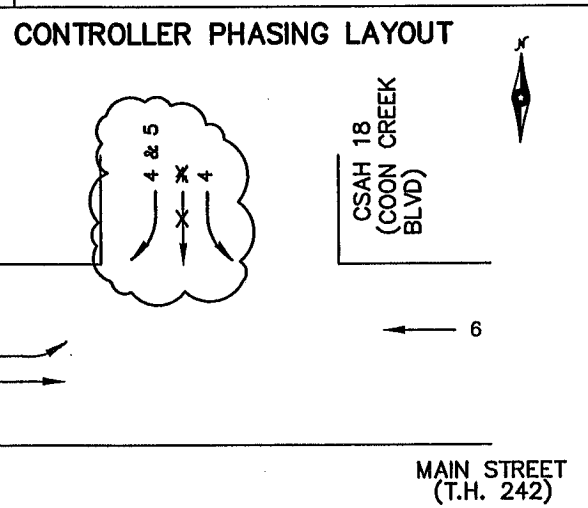
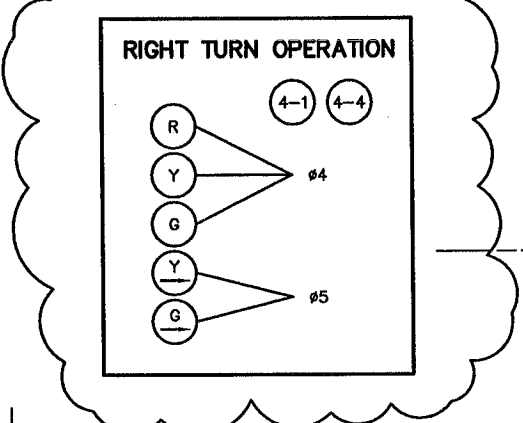
- ① 45' WOOD POLE-CL. 2
DOWNGUY, GUARD AND ANCHOR
LUMINAIRE-200W H.P.S. (WITH PEC & CHECK
SWITCH), AND 15' LUMINAIRE MAST ARM
TYPE 10A POLE MOUNTED
- METAL JUNCTION BOX #1
3" RSC BELOW J.B. #1 TO HH 1
2-12/C #12
1-3/C #12 (LUM)
- 3" RSC RISER AND WEATHERHEAD ABOVE J.B. #1
2-12/C #12
1-3/C #12 (LUM)
- 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)



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
D4-3	6x6	2	5
D4-4	2-6x6	2	5, 20
D4-5	2-6x6	1	5, 20
D5-1	2-6x6	1	10, 40
D6-1	6x6	1	475

- LOOP DETECTOR FUNCTIONS
- 1) 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.

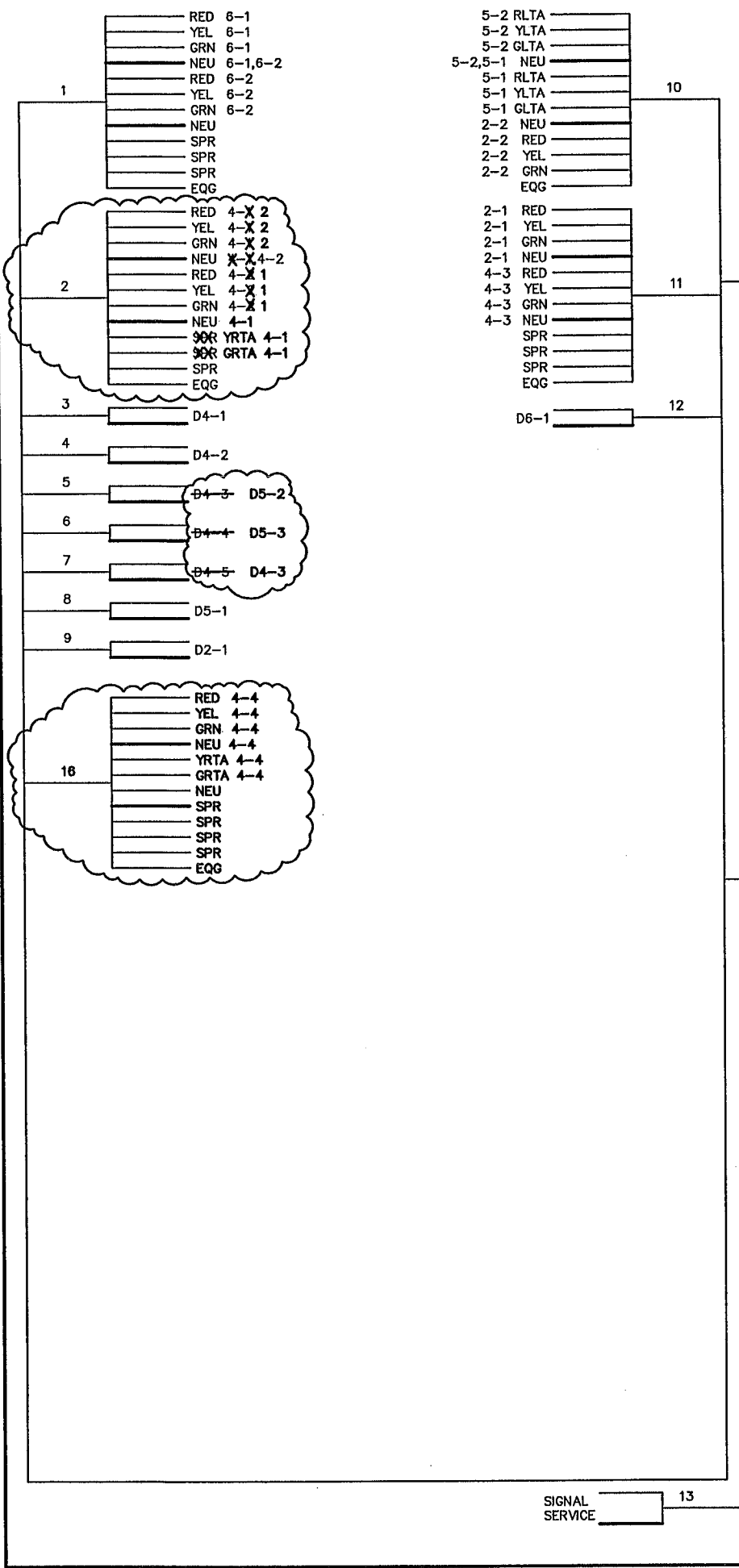
BRW
PLANNING
TRANSPORTATION
ENGINEERING
URBAN DESIGN
DESIGN BY: RJG
DRAWN BY: SAC
CHECKED BY: JJP

ORIGINAL DATE 5/18/92
REVISIONS
12-1-92
12-9-92

**CITY OF COON RAPIDS
IMPROVEMENT PROJECT 90-18
COON CREEK BLVD AND
T.H. 242 (MAIN STREET)
SIGNAL INTERSECTION LAYOUT**

PLOT DATE: Dec 23, 4:05pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SIGNALS\Main\7-imp2.dwg

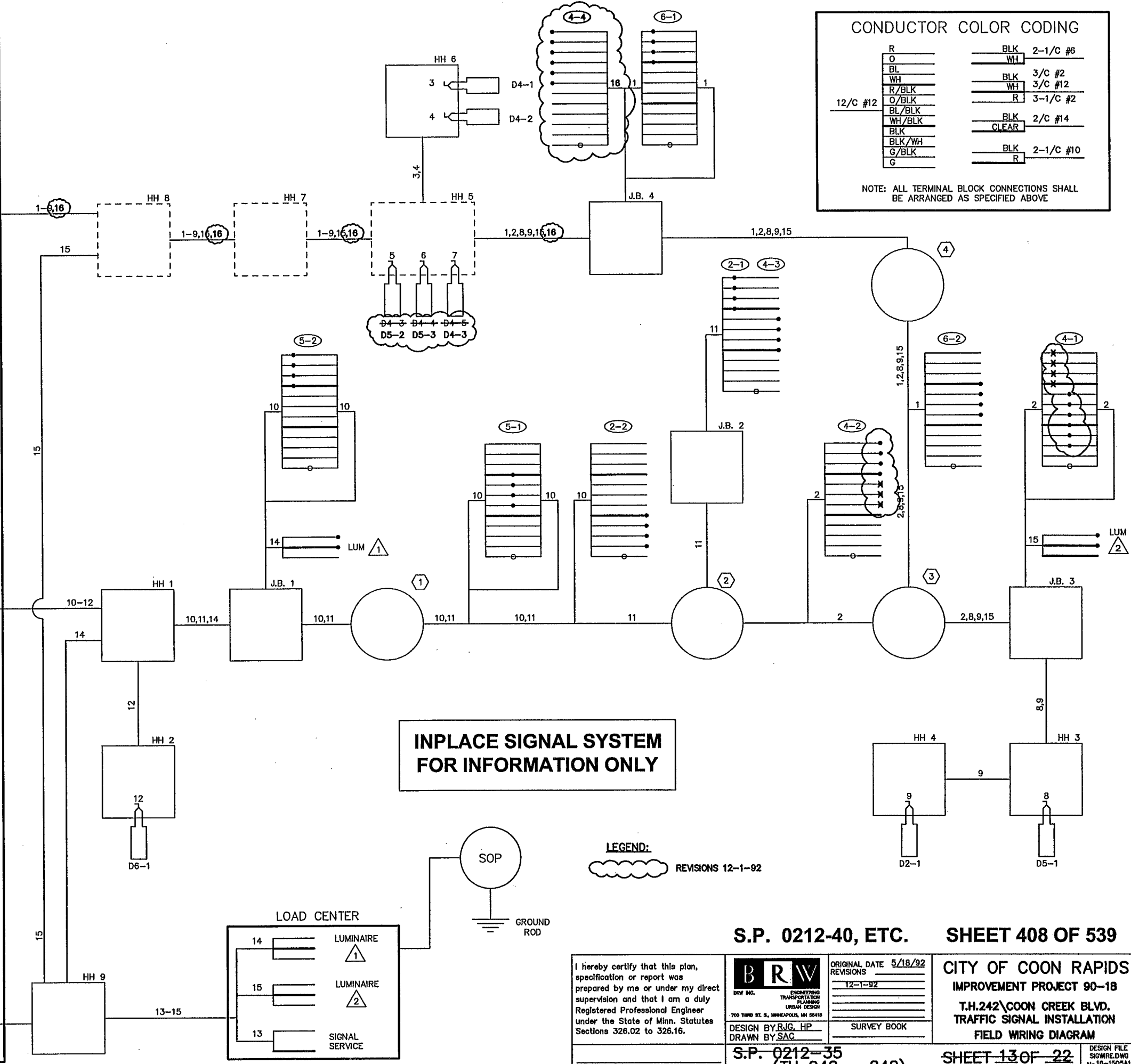
CONTROLLER CABINET



CONDUCTOR COLOR CODING

R	BLK	2-1/C #6
O	WH	
BL	BLK	3/C #2
WH	WH	3/C #12
R/BLK	R	3-1/C #2
O/BLK	BLK	2/C #14
WH/BLK	CLEAR	
BLK	BLK	2-1/C #10
BLK/WH	R	
G/BLK		
G		

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGED AS SPECIFIED ABOVE



INPLACE SIGNAL SYSTEM FOR INFORMATION ONLY

LEGEND: REVISIONS 12-1-92

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
 ENGINEERING
 TRANSPORTATION
 PLANNING
 URBAN DESIGN
 700 THIRD ST. S., MINNEAPOLIS, MN 55415
 DESIGN BY: RJG, HP
 DRAWN BY: SAC

ORIGINAL DATE 5/18/92
 REVISIONS 12-1-92
 SURVEY BOOK

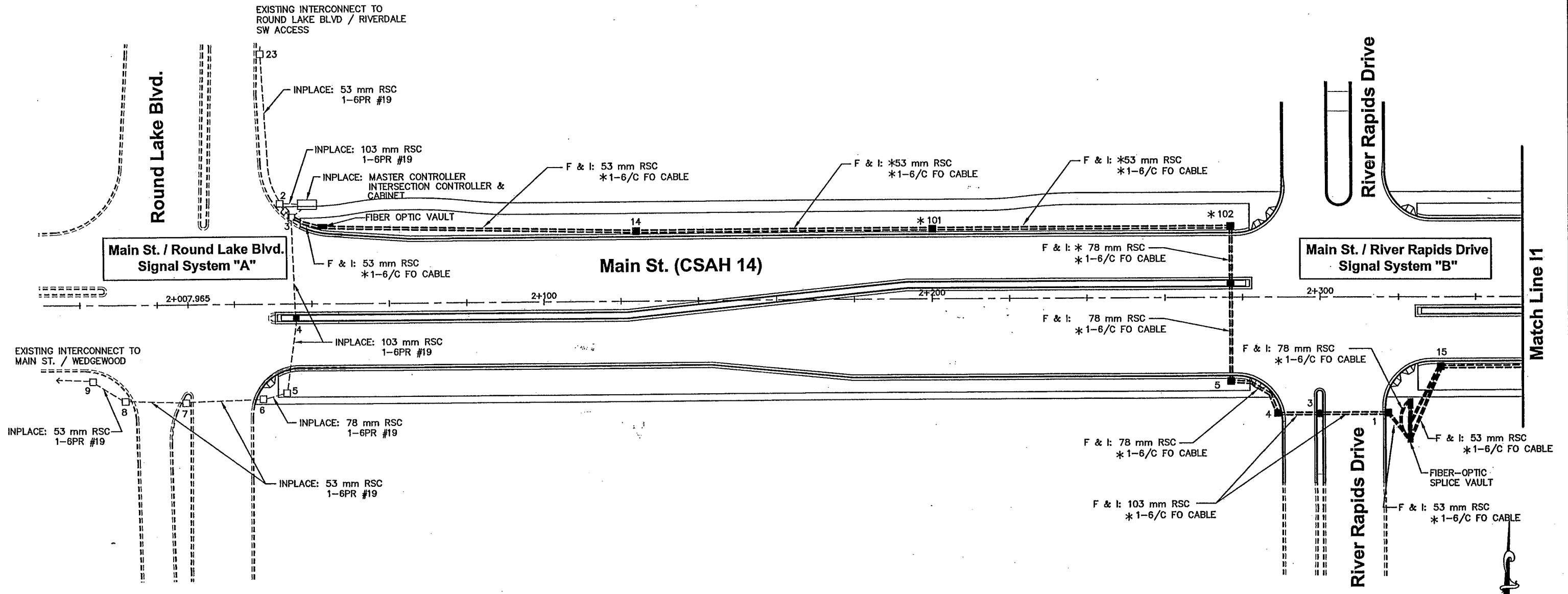
CITY OF COON RAPIDS
 IMPROVEMENT PROJECT 90-1B
 T.H.242\COON CREEK BLVD.
 TRAFFIC SIGNAL INSTALLATION
 FIELD WIRING DIAGRAM

S.P. 0212-35
 (TH 242 - 242)

SHEET 13 OF 22

DESIGN FILE: SIGWRE.DWG
 No 18-1505A13

PLOT DATE: Jul 13, 2004 9:20am DISK FILE NAME: (15.06) R:\33889\33889028\SIGNALS\Main\As-Built\1-Inter.dwg



Main St. / Round Lake Blvd. Signal System "A"

Main St. / River Rapids Drive Signal System "B"

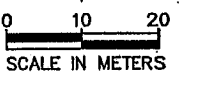
Main St. (CSAH 14)

Match Line 11

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

NOTES:

- * DENOTES ITEMS INCLUDED WITH INTERCONNECT.
- OTHER ITEMS ARE INCLUDED AS PART OF SIGNAL SYSTEMS "A", "B", "C", "D", "E", "F", "G" OR "H". SEE SIGNAL LAYOUT SHEETS.
- 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
CHKD. BY: RJG	DWG. NAME: 1-INTER	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.

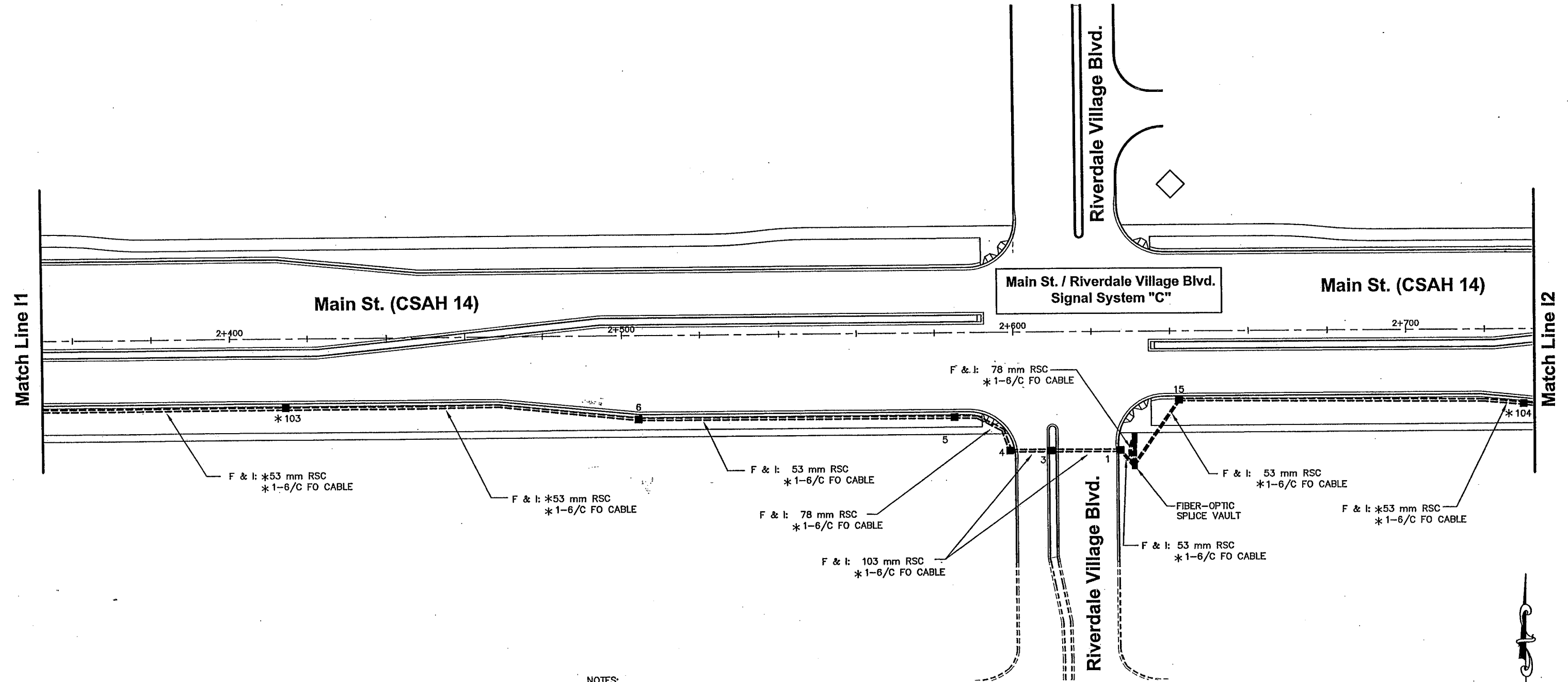
Robert A. Green
DATE: 11/5/99 MINN. REG. NO. 22793

**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)	SHEET NO.
S.A.P. 02 - 614 - 19	409
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PLOT DATE: Jul 07, 2004 1:39pm DISK FILE NAME: (15.06) R:\338899\33889028\SIGNALS\main\As-Built\2-inter.dwg

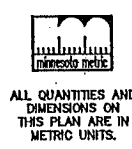


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- NOTES:**
- * DENOTES ITEMS INCLUDED WITH INTERCONNECT.
 - OTHER ITEMS ARE INCLUDED AS PART OF SIGNAL SYSTEMS "A", "B", "C", "D", "E", "F", "G" OR "H". SEE SIGNAL LAYOUT SHEETS.
 - MASTER CONTROLLER UNIT IS IN PLACE AND LOCATED AT THE MAIN ST. / ROUND LAKE BLVD. INTERSECTION.

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JRN	1/7/2000	LOCATION & 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
CHKD. BY: R.JG	DWG. NAME: 2-INTER	
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 55416
(612)370-0700 (TEL)
(612)370-1378 (FAX)

GROUP A DAMES & MOORE GROUP COMPANY

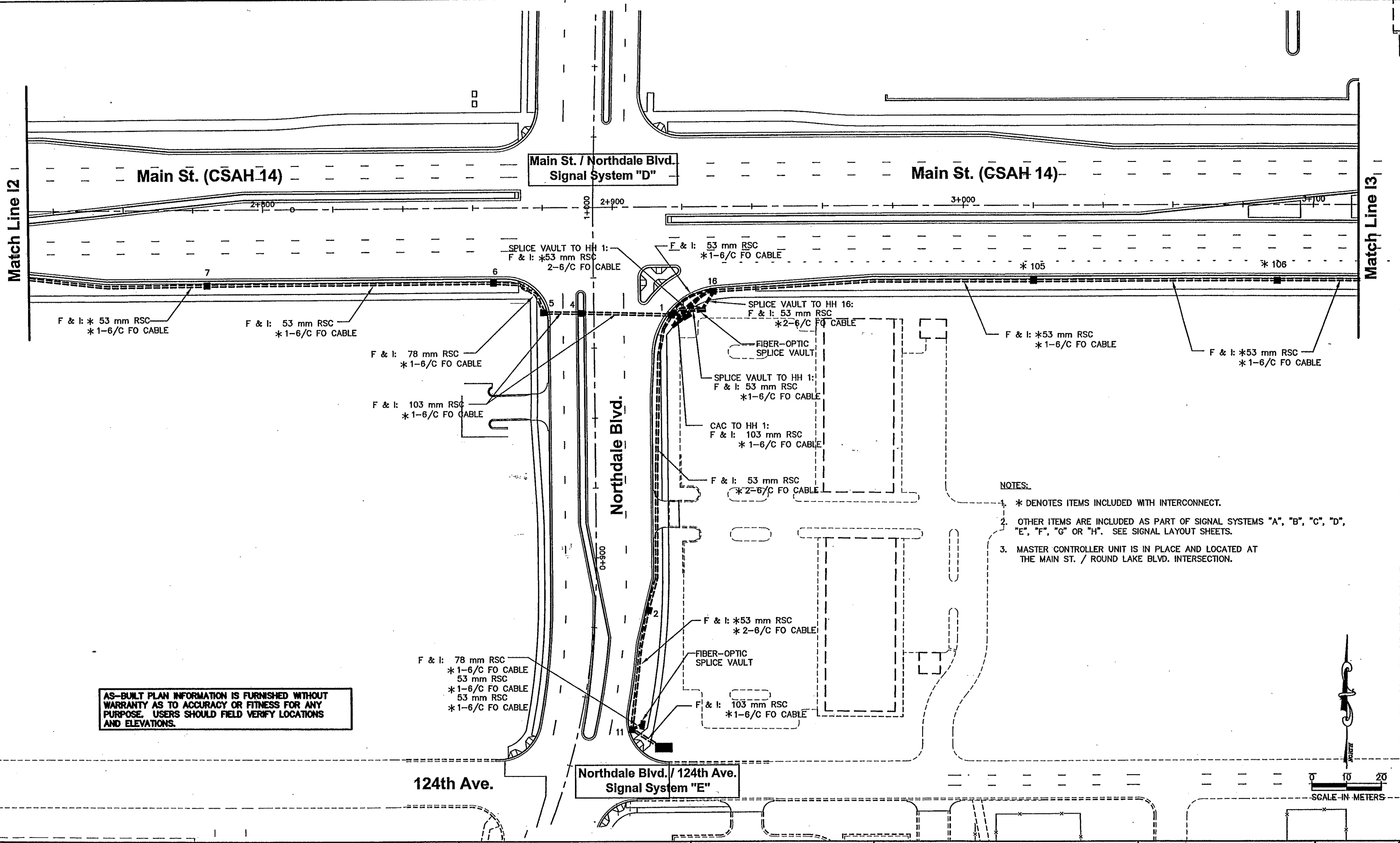
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Robert J. Green
DATE: 11/5/99 MINN. REG. NO. 22793

MAIN STREET/T.H. 242 RECONSTRUCTION TRAFFIC SIGNAL SYSTEM
MAIN ST. (CSAH 14) / TH 242 INTERCONNECT PLAN
CITY PROJECT 98-20

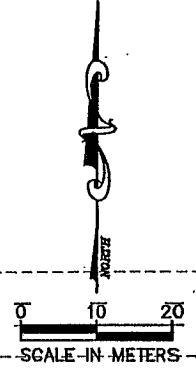
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	410
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PLOT DATE: Jul 13, 2004 9:23am DISK FILE NAME: (15.06) R:\33889\33889028\SIGNALS\main\As-Built\3-inter.dwg



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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	JUL	7/5/00	MOD. REQ. #38: REVISED MENARDS ENTRANCE
4	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: JAS	DESIGN BY: JRN
CHKD. BY: RJG	DWG. NAME: 3-INTER	
DATE: NOVEMBER 5, 1999		

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MINNEAPOLIS, MN 55415
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Robert J. Green

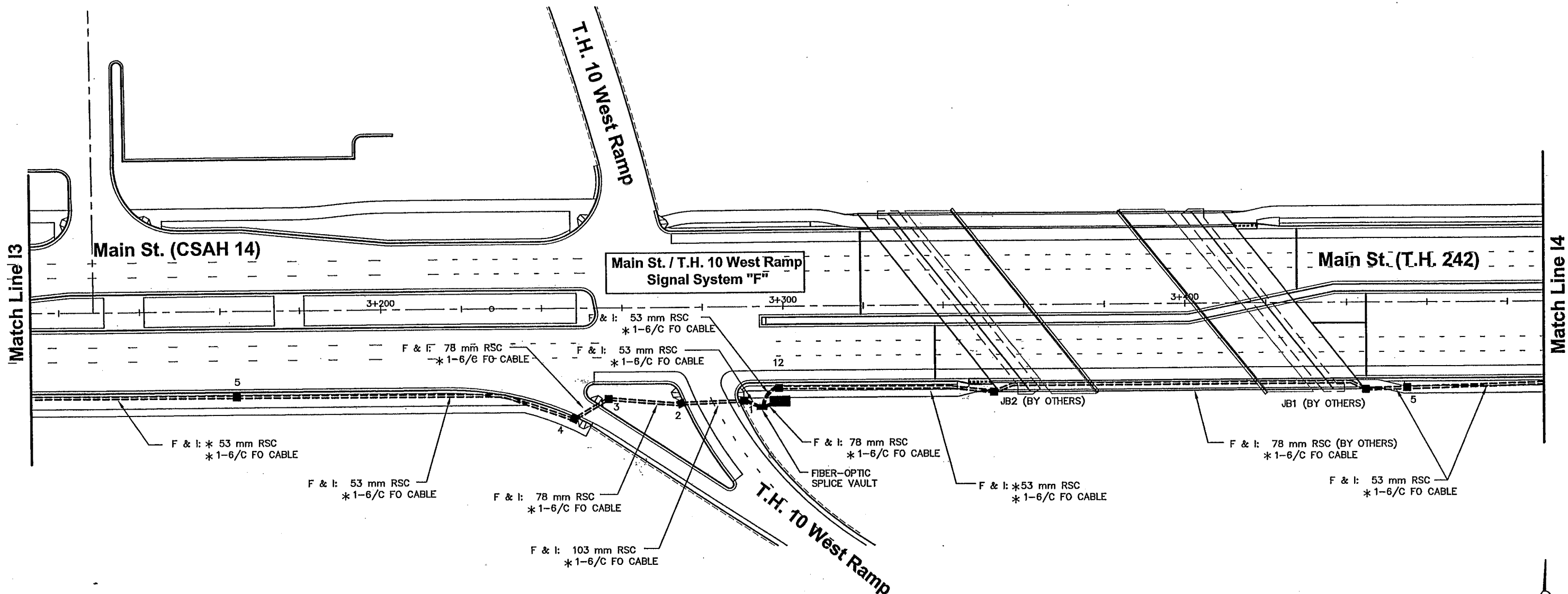
DATE: 11/5/99 MINN. REG. NO. 22793

**MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
MAIN ST. (CSAH 14) / TH 242
INTERCONNECT PLAN**

CITY PROJECT 98-20

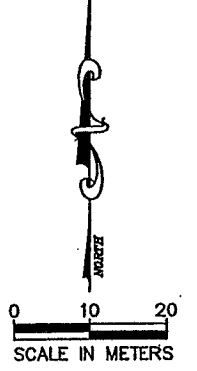
S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	411
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PLOT DATE: Jul 07, 2004 1:59pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\Main\As-Built\4-Inter.dwg



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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	JRN	7/5/00	MOD. REQ. #38: REVISED MENARDS ENTRANCE
4	JAS	4/30/04	AS-BUILT DRAWING

DESIGN FILE:
33889028

DRAWN BY:
JAS

DESIGN BY:
JRN

CHKD. BY:
RJG

DWG. NAME:
4-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. (CSAH 14) / TH 242
INTERCONNECT PLAN**

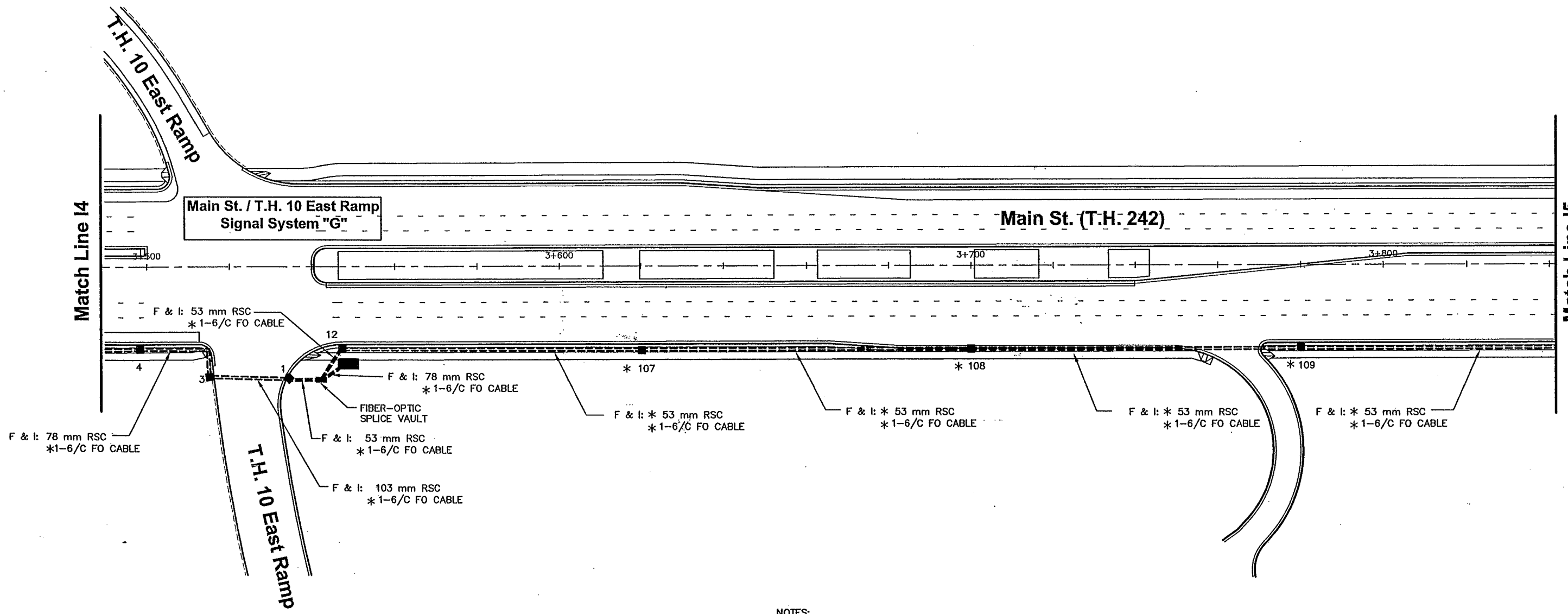
CITY PROJECT 98-20

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

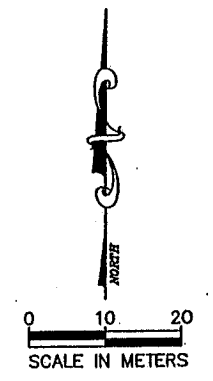
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NOTES:

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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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
CHKD. BY: RJG	DWG. NAME: 5-INTER
DATE: NOVEMBER 5, 1999	

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Robert J. Green

DATE: 11/5/99 MINN. REG. NO. 22793

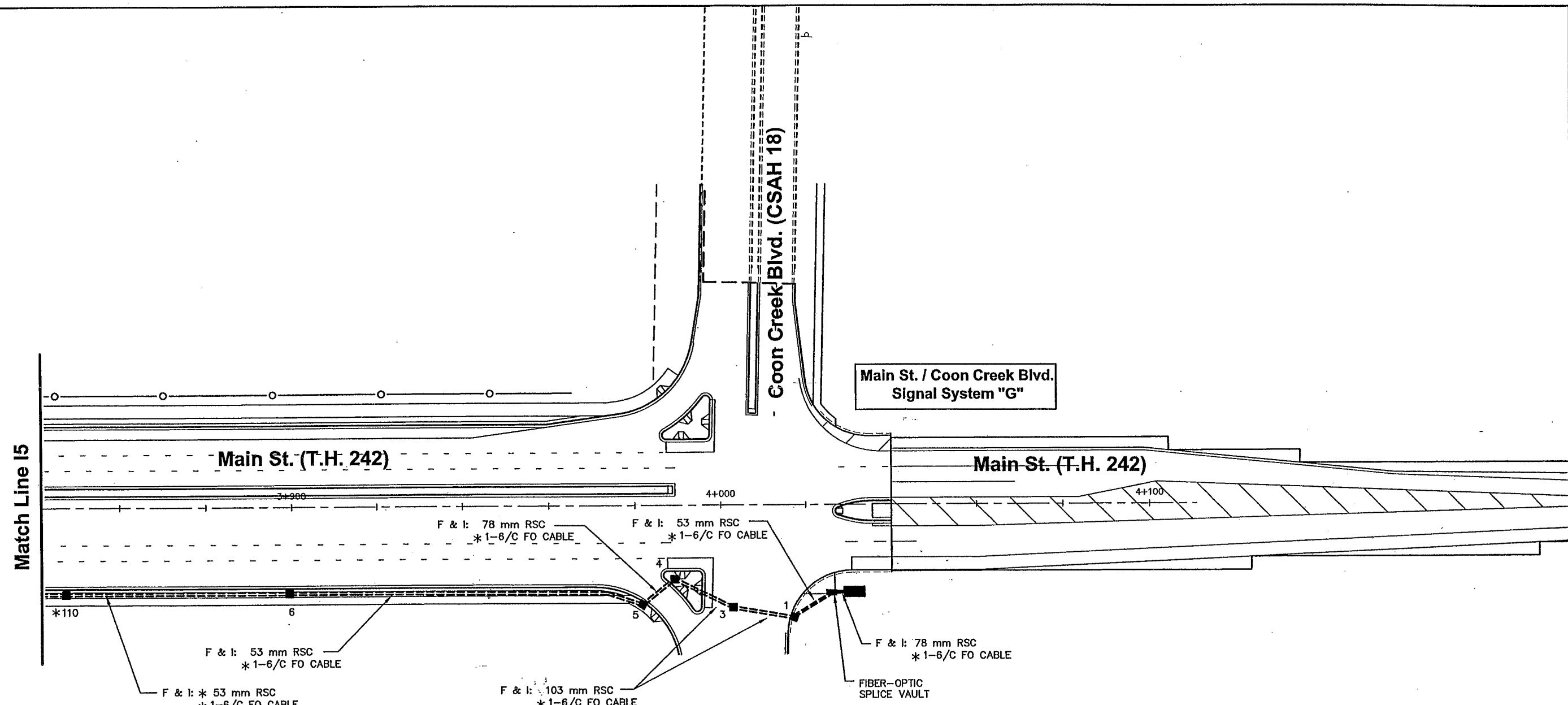
MAIN STREET/T.H. 242 RECONSTRUCTION
TRAFFIC SIGNAL SYSTEM
MAIN ST. / TH 242
INTERCONNECT PLAN

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

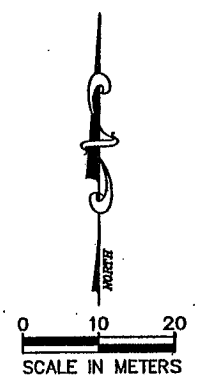
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PLOT DATE: Jul 07, 2004 2:17pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\SIGNALS\main\As-Built\6-inter.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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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

CHKD. BY:
RJC

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 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

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
	SPLICE CABINET (SPECIFY) - (SPECIFY)
	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
	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

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 PERFORMED	EACH	5

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TMS COMPONENTS AND
TABULATION OF ESTIMATED QUANTITIES

REV. NO.	DATE: / /
REV. NO.	DATE: / /



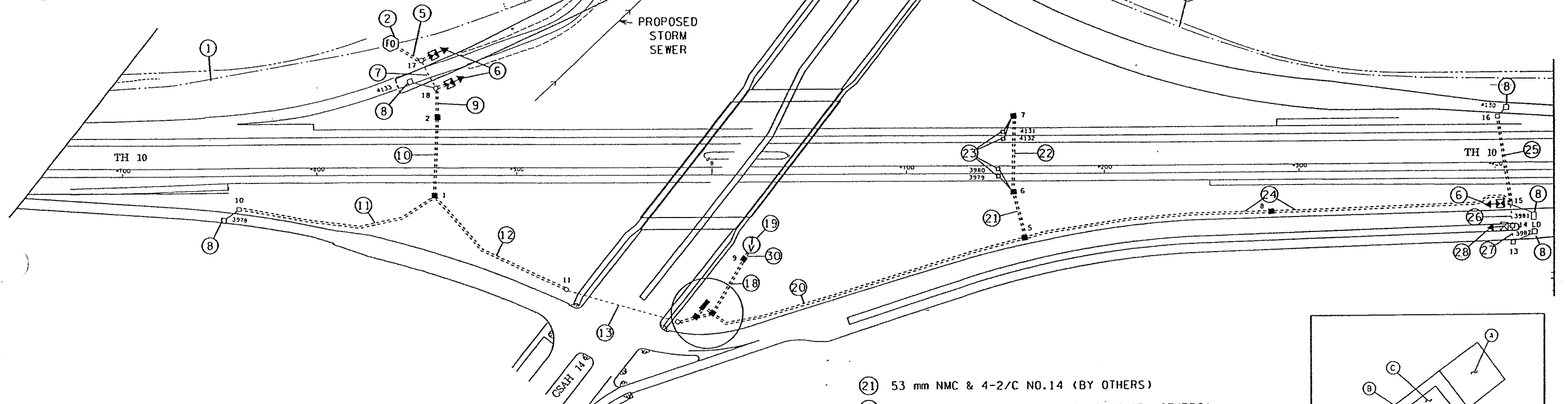
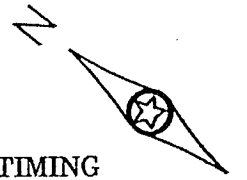
CERTIFIED BY *Maureen R. Jensen* REG. NO. 18431 JULY 7 1999
PROFESSIONAL ENGINEER

STATE PROJ. NO. 0212-40 (TH 242) SHEET NO. 415 OF 539 SHEETS

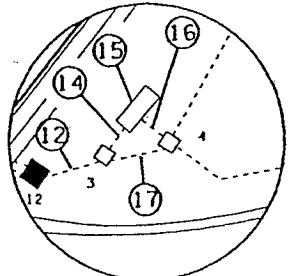
- ① 1-FO CABLE (36SM) & 1-FO PIGTAIL-D (6SM) (BY OTHERS)
- ② 1-FO SPLICE VAULT & OUTDOOR FIBER SPLICE ENCLOSURE (BY OTHERS)
- ③ 1-FO CABLE (36SM) (BY OTHERS)
- ④ 78 mm HD NMC PUSH & 1-FO CABLE (36 SM) MAINTAIN EXTRA DEPTH TO ALLOW FOR ROADWAY EXPANSION AND FUTURE STORM SEWER TO PASS OVER CONDUIT (BY 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.

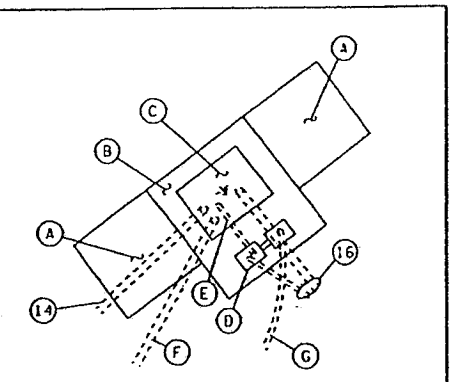


- ⑨ 78 mm NMC, 1-2/C NO.14, 4-5/C NO.12 & 2-FO PIGTAILS-B (6SM) (BY OTHERS)
- ⑩ 78 mm HD NMC PUSH, 1-2/C NO.14, 4-5/C NO.12 & 2-FO PIGTAILS-B (6SM) BY OTHERS)
- ⑪ 53 mm NMC & 1-2/C NO.14 (BY OTHERS)
- ⑫ 78 mm NMC, 2-2/C NO.14, 4-5/C NO.12 & 2-FO PIGTAILS-B (6SM) (BY OTHERS)
- * ⑬ F&I 78 mm NMC, 2-2/C 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)



- ⑳ 53 mm NMC & 4-2/C NO.14 (BY OTHERS)
- ㉑ 53 mm HD NMC PUSH & 2-2/C NO.14 (BY OTHERS)
- ㉒ SAWCUT LOOP DETECTOR (BY OTHERS)
- ㉓ 53 mm NMC, 3-2/C NO.14 & 4-5/C NO.12 (BY OTHERS)
- ㉔ 53 mm HD HMC PUSH & 1-2/C NO.14 (BY OTHERS)
- * ㉕ F&I 78 mm NMC 1-2/C NO.14 & 2-5/C NO.12 (BY OTHERS)
- * ㉖ F&I 78 mm NMC 1-2/C NO.14 (BY OTHERS)
- * ㉗ F&I RAMP CONTROL SIGNAL FOUNDATION & 53 mm NMC ONE WAY RAMP CONTROL SIGNAL WITH 2-5/C NO. 12 (BY OTHERS)
- ㉘ 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
- ㉙ 78 mm NMC, 1-3/C NO.8 & 1-FO PIGTAIL-B (BY OTHERS)
- * ㉚ F&I HANDHOLE NUMBERS 10,11,12,13,14 LD, 15, 16, 17 & 18

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- 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 EQUIPMENT 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

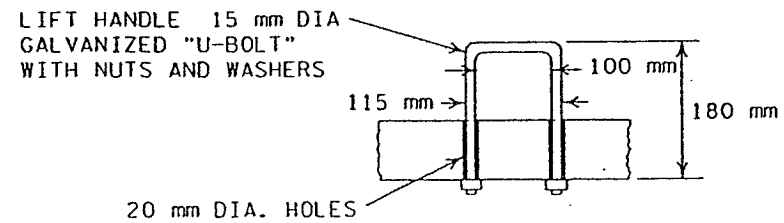
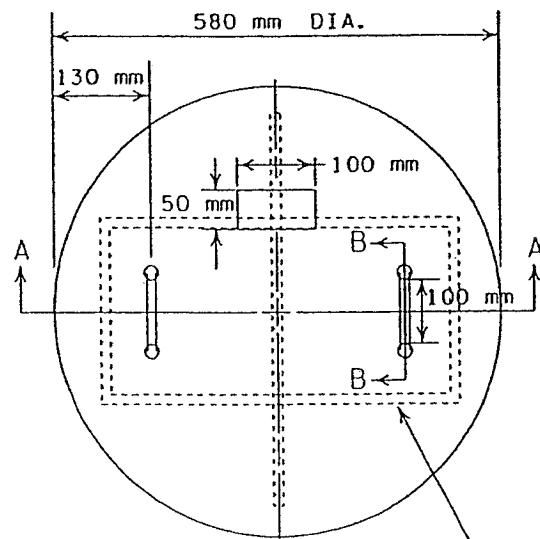
REV. NO.	DATE: / /
REV. NO.	DATE: / /



CERTIFIED BY *Matthew R. Jensen* PROFESSIONAL ENGINEER

REG. NO. 18431 JULY 7 1999

STATE PROJ. NO. 0212-40 (TH 242) SHEET NO. 416 OF 539 SHEETS

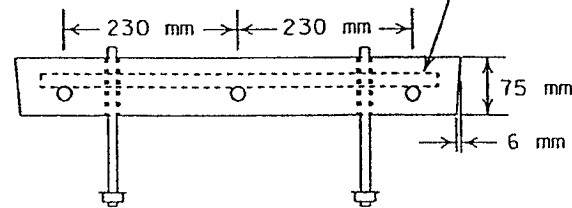


SECTION B-B

NOTES:

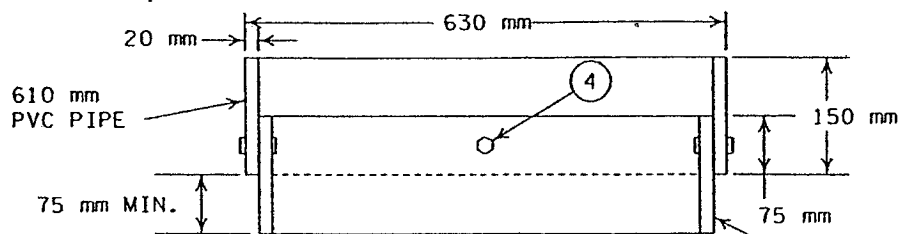
1. INSTALL NUMBER 3 STEEL REINFORCEMENT BARS IN 230 mm RECTANGLES, COAT THE BARS WITH EPOXY AS PER MN/DOT 3301
2. COAT THE ENTIRE COVER WITH EPOXY PER MN/DOT CONCRETE MANUAL 5-694.184E AND AS RECOMMENDED BY THE EPOXY MANUFACTURER.
3. USE 3U32 CONCRETE AS PER MN/DOT 2461.
4. EMBOSS THE CONCRETE COVER WITH "TMS" IN 50 mm LETTERS 5 mm DEEP.

NUMBER 3 STEEL REBAR



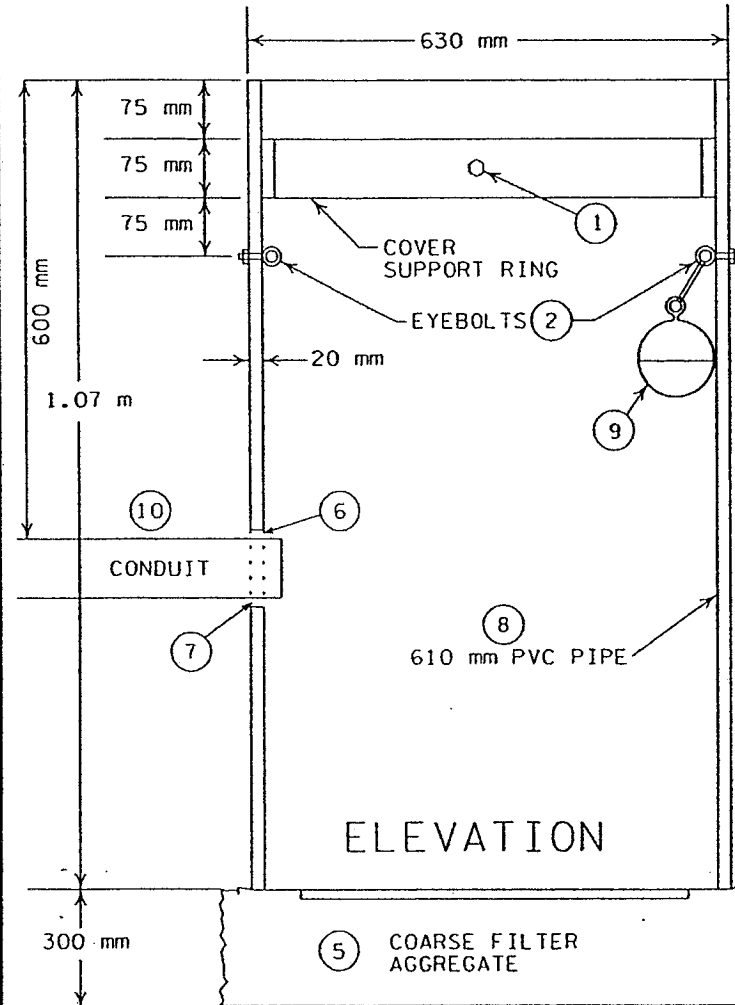
SECTION A-A

CONCRETE COVER



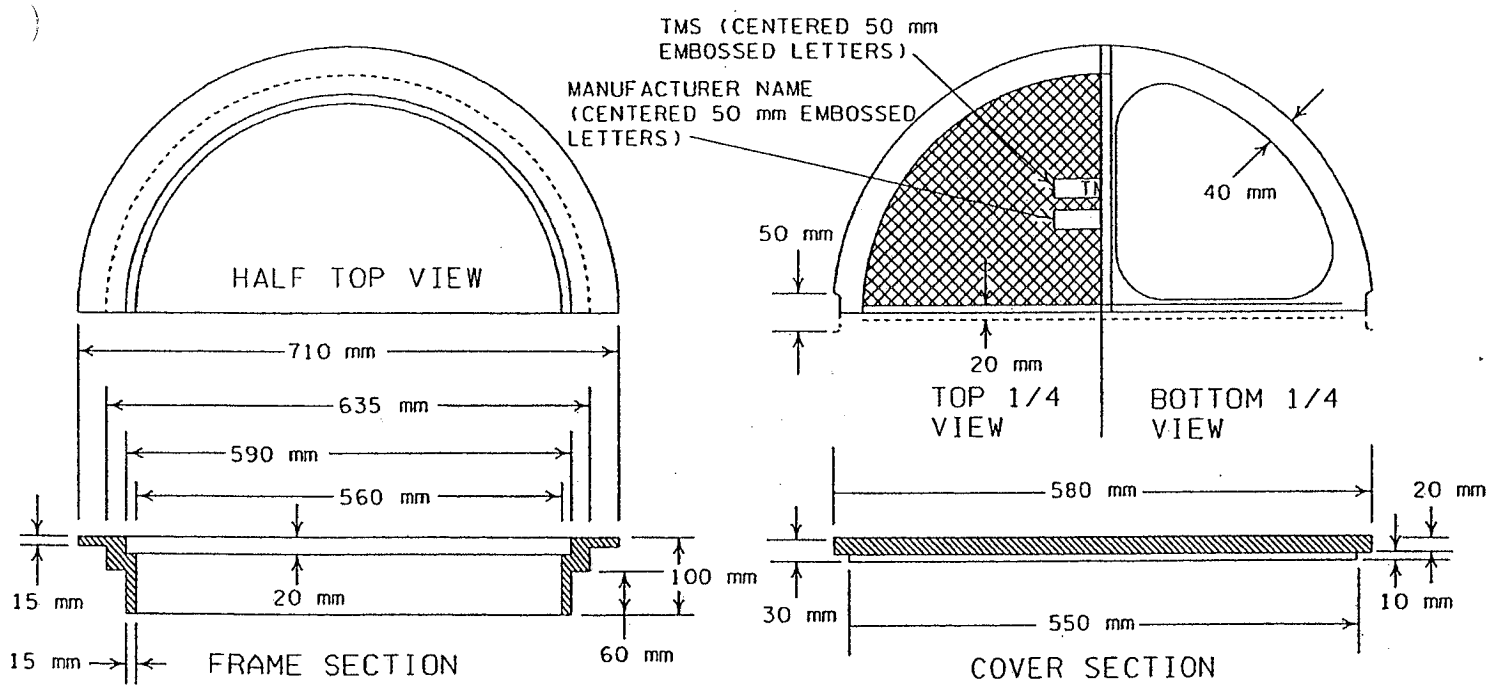
EXTENSION RING AS REQUIRED

USE APPROVED P.V.C. CEMENT TO ATTACH EXTENSION RING TO HANDHOLE



ELEVATION

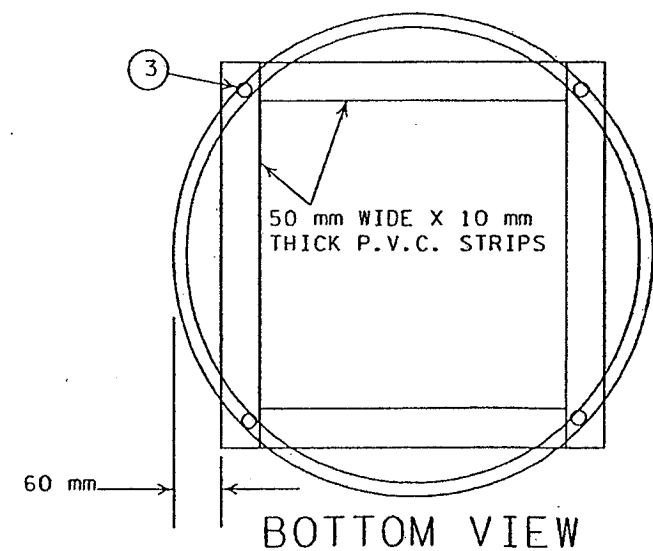
- ① ATTACH SPLIT 610 mm DIA. P.V.C. COVER SUPPORT RING WITH FOUR 10mm DIA. X 50 mm LONG BOLTS AND NUTS AT 90° APART.
- ② TWO TYPE 2 SHOULDER EYEBOLTS, 10 mm DIA. X 30 mm SHANK LENGTH, WITH HEX. NUTS AT 180° APART (FOR LIFTING HANDHOLES AND SUPPORTING ELECTRICAL CABLES).
- ③ FOUR 6.4 mm X 30 mm LONG GALVANIZED 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

LIGHT DUTY METAL COVER

NOTE:
ALL CASTINGS ARE GRAY IRON PER MN/DOT SPEC. 3321 CLASS 35B



BOTTOM VIEW

HANDHOLE DETAIL

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REV. NO.	DATE: / /
REV. NO.	DATE: / /



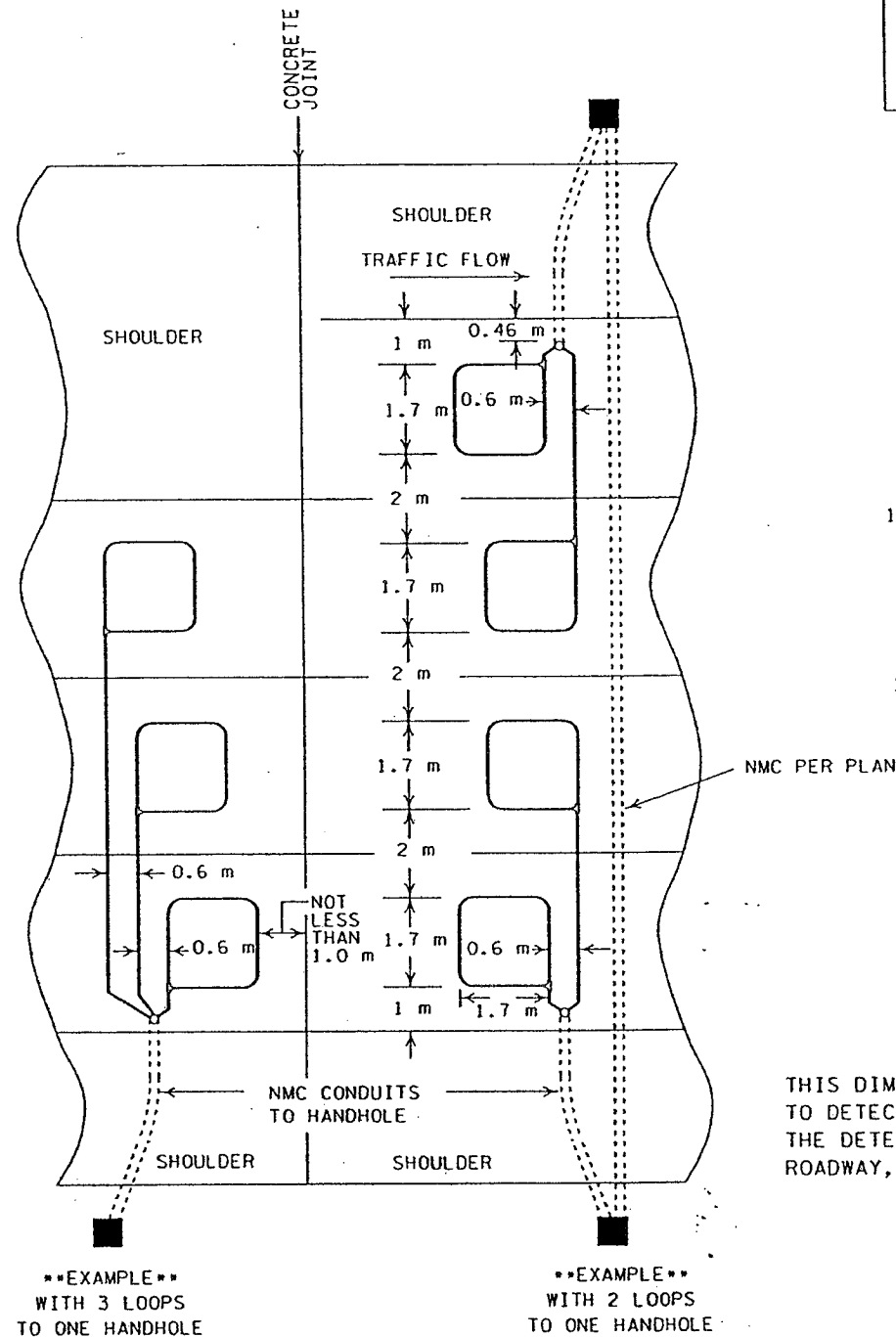
CERTIFIED BY *Maurice R. Jensen* REG. NO. 18431 JULY 7 1999

STATE PROJ. NO. 0212-40 (TH 242) SHEET NO. 417 OF 539 SHEETS

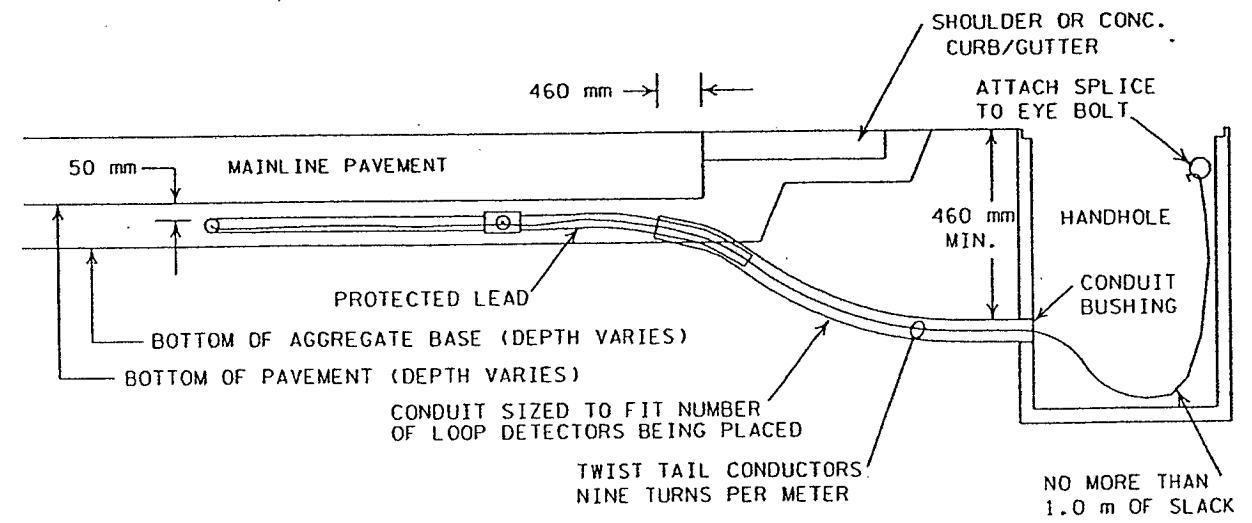
GENERAL NOTES:

1. SEE SPECIAL PROVISIONS FOR REQUIRED LOOP DETECTOR CONDUCTORS AND SPLICE KIT.
2. THE LOOP DETECTOR HEAD SHALL BE 16 mm O.D. POLYPROPYLENE 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

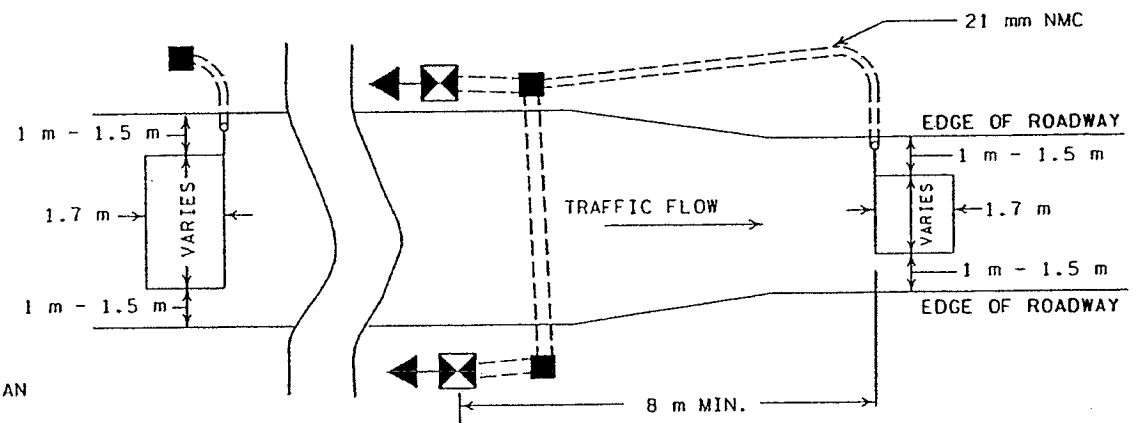
CONTRACTOR SHALL SPECIFY XHHW TYPE WIRE, LOOP DETECTOR TAIL LENGTH AND 5 TURNS OF WIRE WHEN ORDERING PREFORMED LOOP DETECTORS



MAINLINE DETECTORS



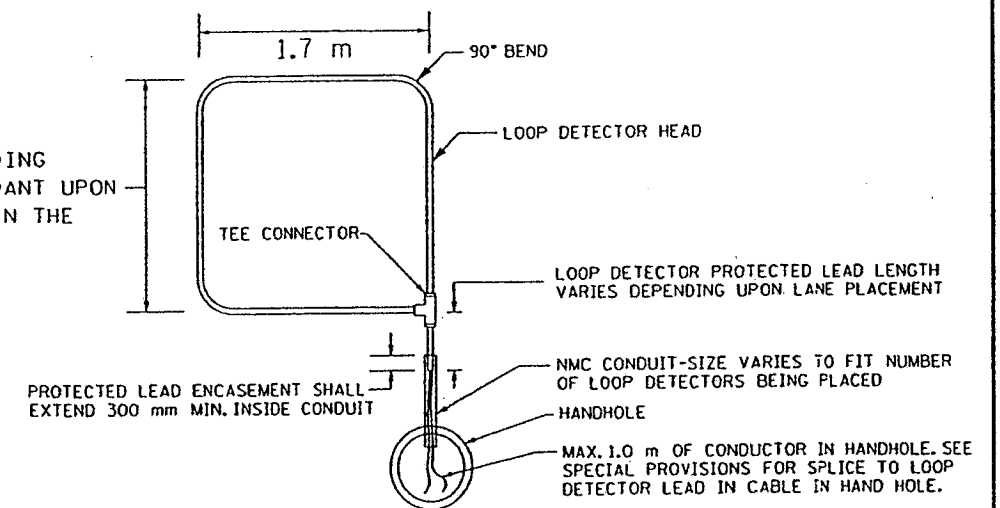
CONDUIT/HANDHOLE INSTALLATION



QUEUE LOOP

RAMP LOOP DETECTION

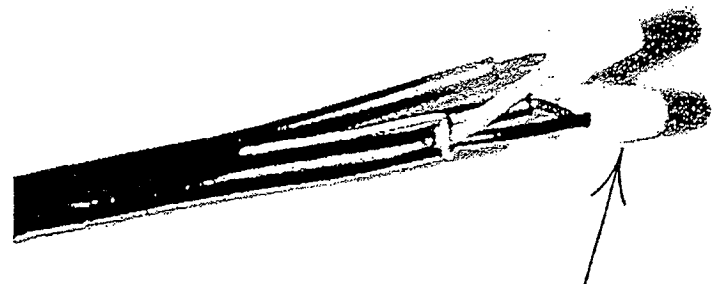
THIS DIMENSION VARIES ACCORDING TO DETECTOR SIZE & IS DEPENDANT UPON THE DETECTORS LOCATION WITHIN THE ROADWAY, RAMP, OR LOOP



TYPICAL PREFORMED LOOP DETECTOR DETAIL

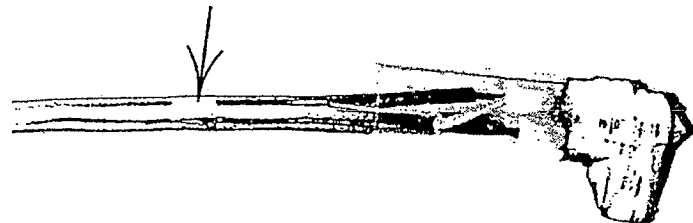
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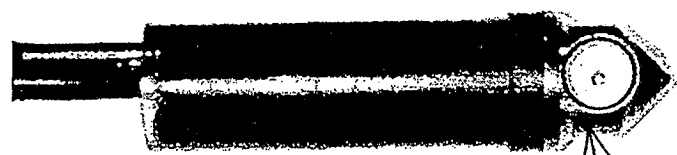


SOLDERED BUTT SPLICE IN WIRE NUT

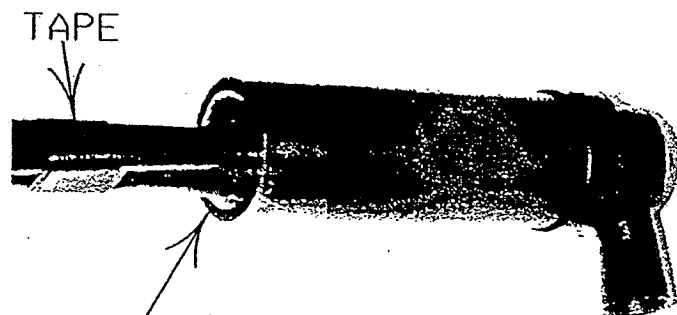
TAPE WIRE TOGETHER BEFORE SPLICE



PLACE IN ENCAPSULATOR

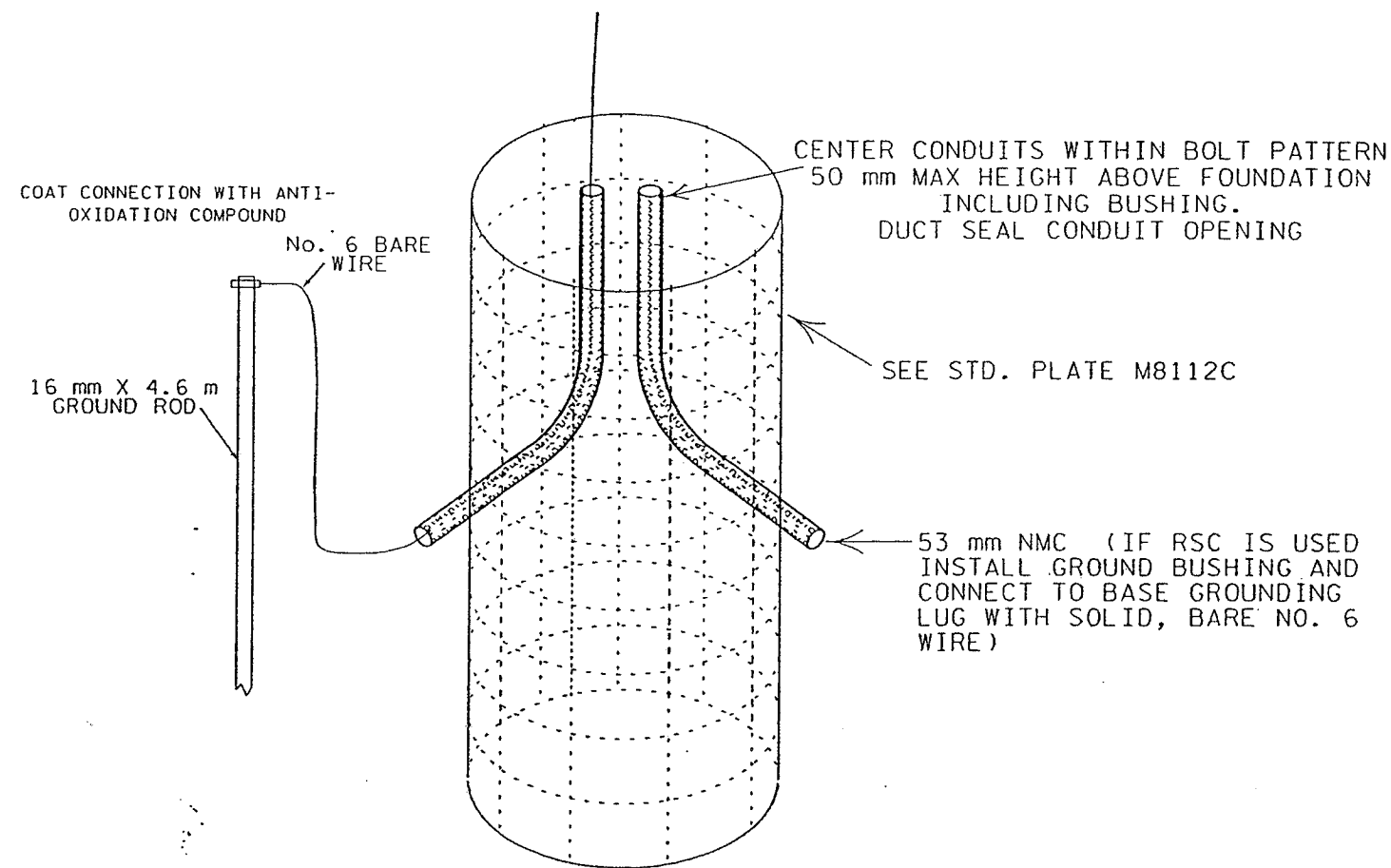


PLACE WIRE NUT IN ONE END TO BLOCK OPENING



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

NO.	DATE: / /
NO.	DATE: / /



CERTIFIED BY

Marius R. Jensen
PROFESSIONAL ENGINEER

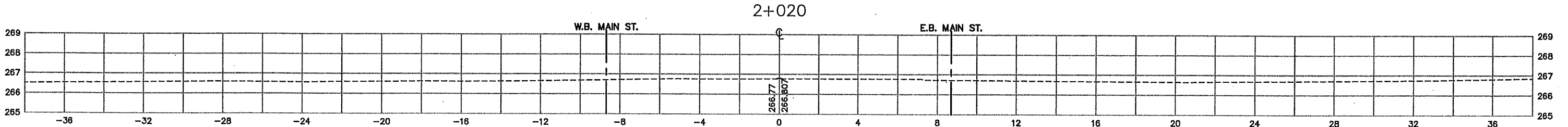
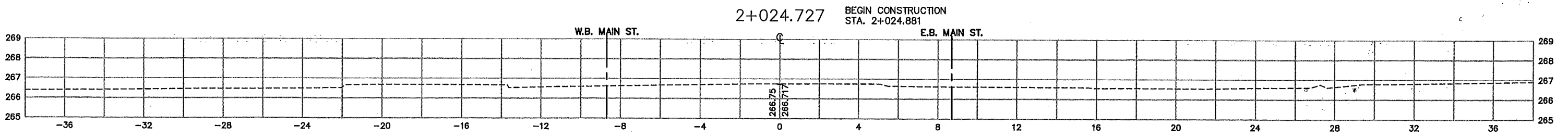
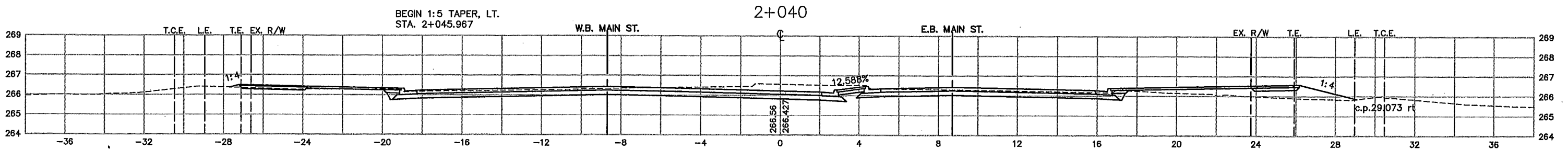
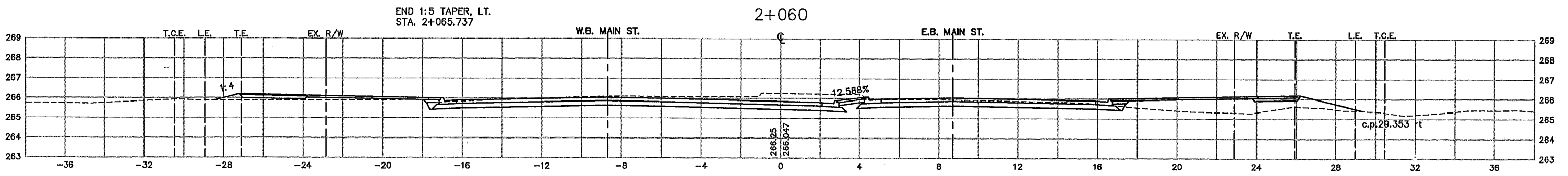
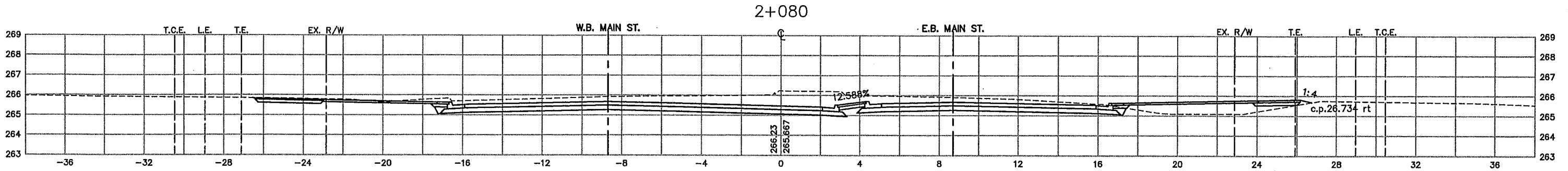
REG. NO. 18431

JULY 7 1999

STATE PROJ. NO. 0212-40

(TH 242) SHEET NO. 419 OF 539 SHEETS

PLOT DATE: Jan 03, 2000 11:21am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_snt\242xs-01.dwg
 14TH-XS



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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	2/27/94	AS-BUILT DRAWING

DESIGN FILE:
 33889028
 DRAWN BY:
 PMJ
 DESIGN BY:
 KPK
 CHKD. BY:
 PBD
 DWG. NAME:
 242XS-01
 DATE:
 NOVEMBER 5, 1999



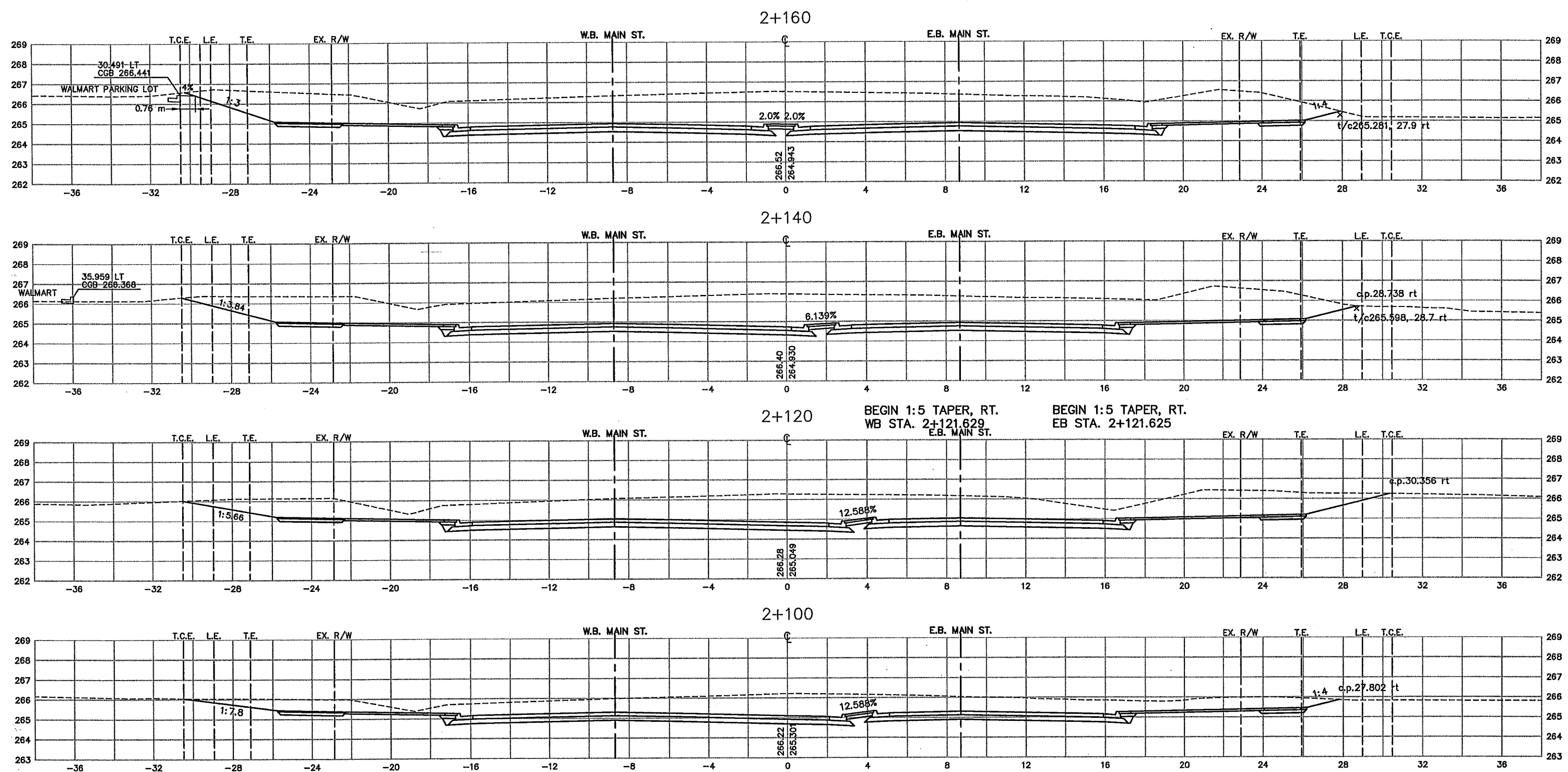
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

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

1 OF 16
 SHEET NO. 420
 539

PLOT DATE: Mar 2 4:13pm DISK FILE NAME: (15.0) R:\33889\33889028\33889w\sec\plan\242xs-02.dwg

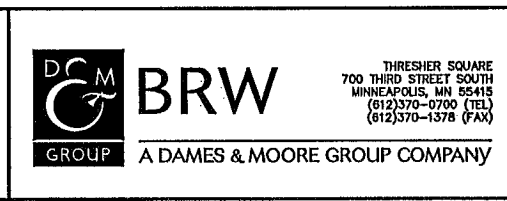
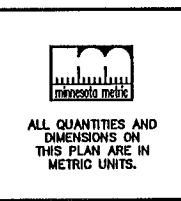


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 EX. R/W EXISTING RIGHT-OF-WAY
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 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

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

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 DRAWN BY: PMJ
 DESIGN BY: KPK
 CHKD. BY: PBD
 DWG. NAME: 242XS-02
 DATE: NOVEMBER 5, 1999



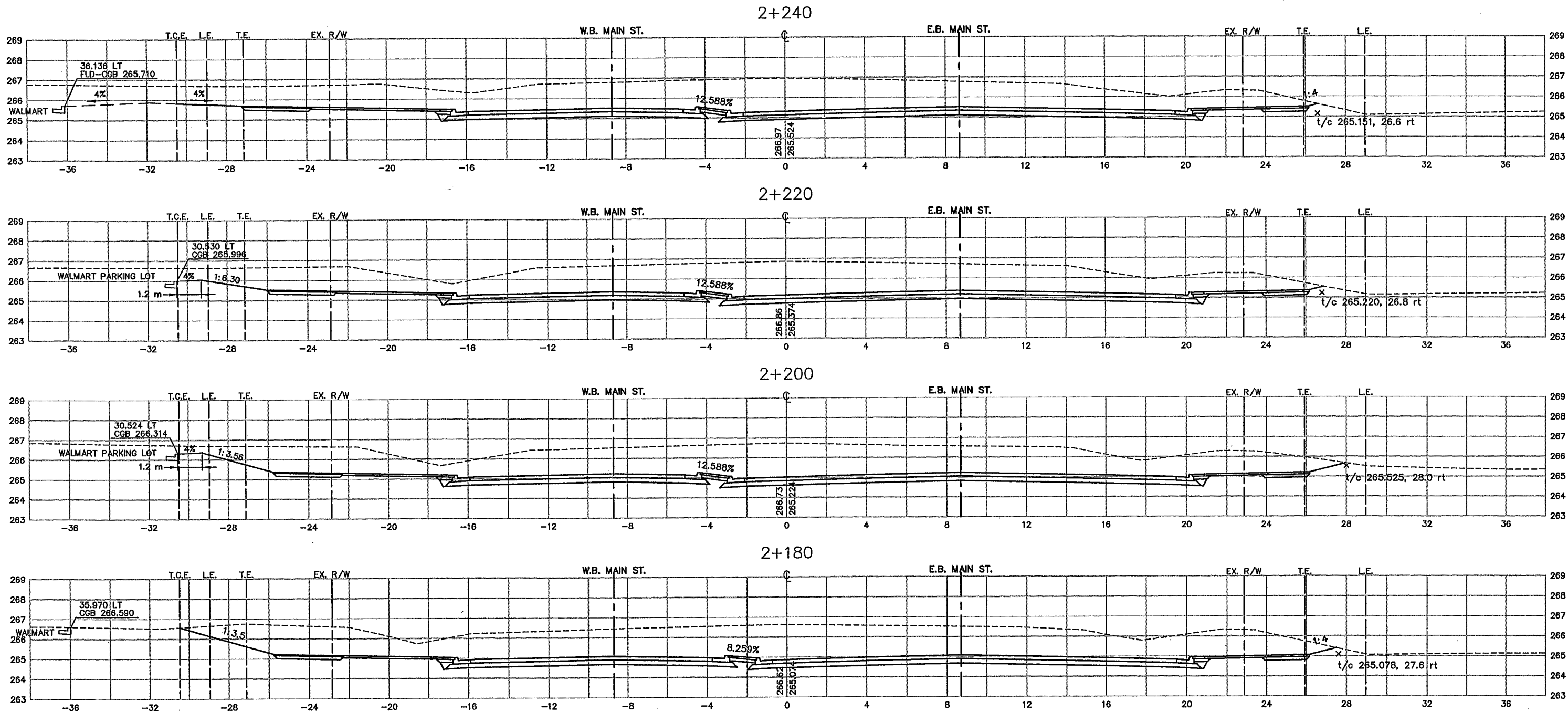
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 DATE: _____ MINN. REG. NO. _____

**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.	T.H.242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 138 - 02
S.A.P.	114 - 127 - 02

SHEET NO. 421
 539

PLOT DATE: Mar 28, 2001 9:54am DISK FILE NAME: (15.0) R:\33889\33889028\33889w\sec\plan\242xs-03.dwg



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

DESIGN FILE: 33889028	DESIGN BY: KPK
DRAWN BY: PMJ	DWG. NAME: 242XS-03
CHKD. BY: PBD	DATE: NOVEMBER 5, 1999



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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

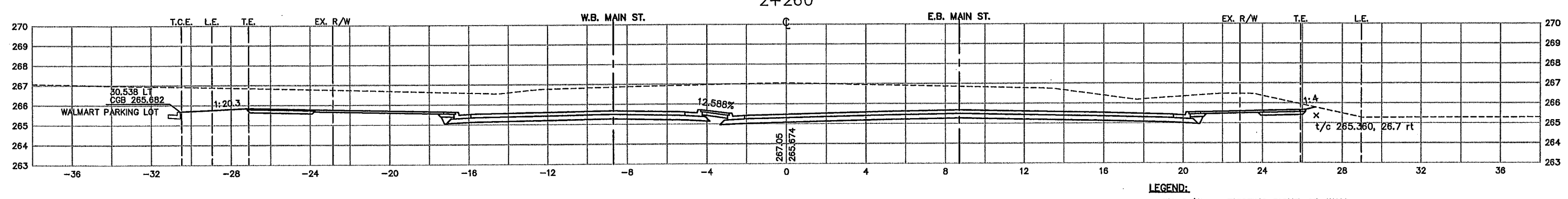
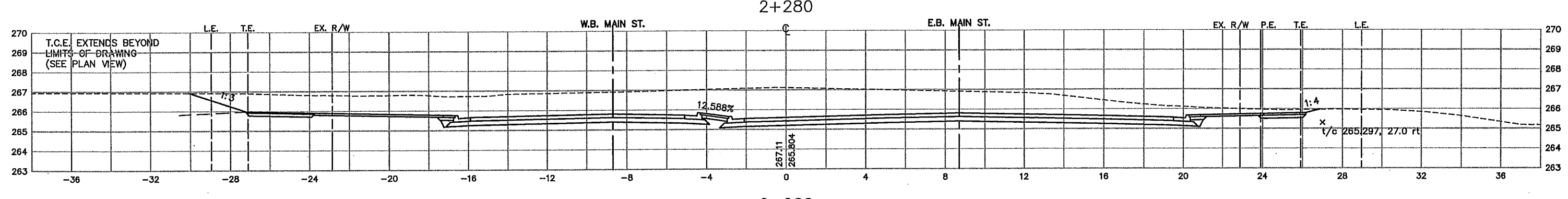
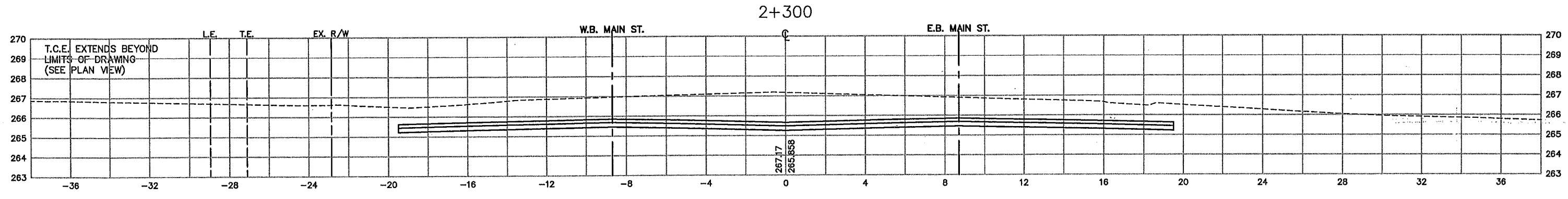
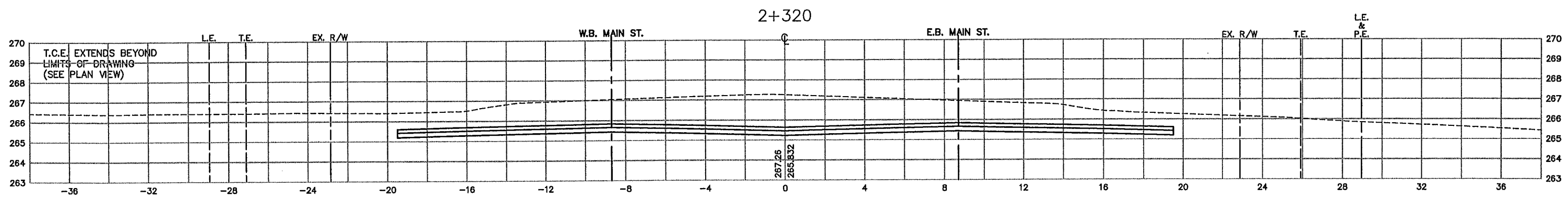
CITY PROJECT 98-20

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

PLOT DATE: Mar 28, 2001 9:43am DISK FILE NAME: (15.0) R:\33889\33889028\33889w\sec\plan_snt\242xs-04.dwg



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 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
 CHKD. BY: PBD
 DWG. NAME: 242XS-04
 DATE: NOVEMBER 5, 1999



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. _____

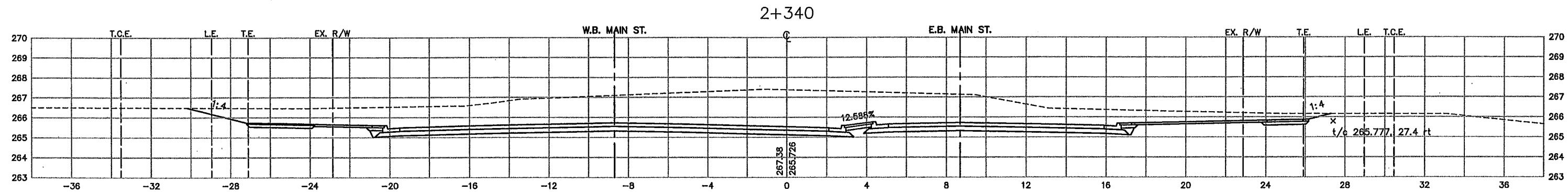
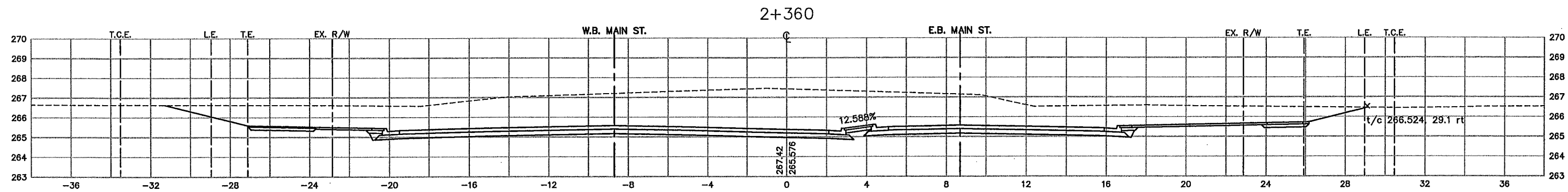
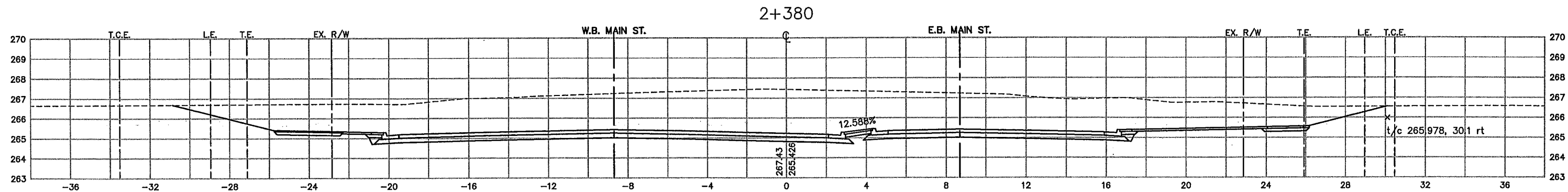
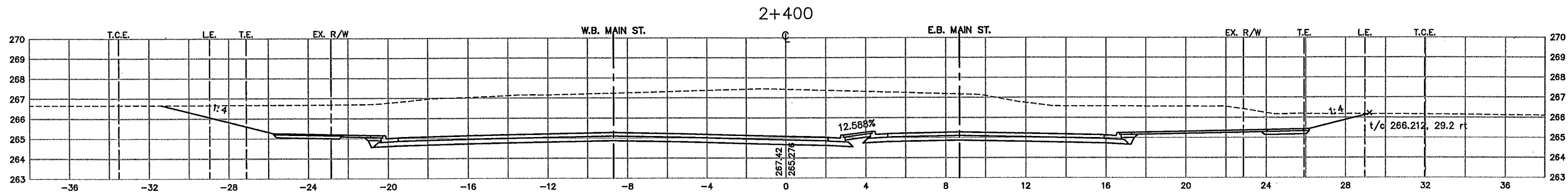
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
 CROSS SECTIONS
 STATION 2+260.000 TO STATION 2+320.000
 CITY PROJECT 98-20

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

4 OF 16
 SHEET NO.
423
539

PLOT DATE: Jan 03, 2000 11:24am DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan_sht\2+2xs-05.dwg

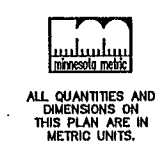


LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

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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: KFK
 CHKD. BY: PBD
 DWG. NAME: 242XS-05
 DATE: NOVEMBER 5, 1999



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



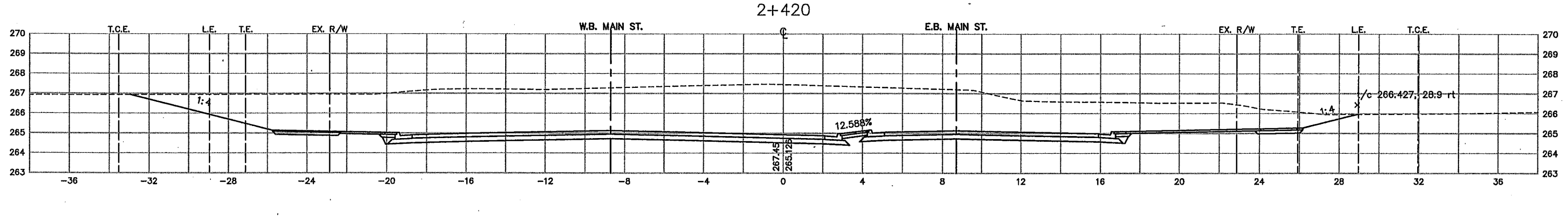
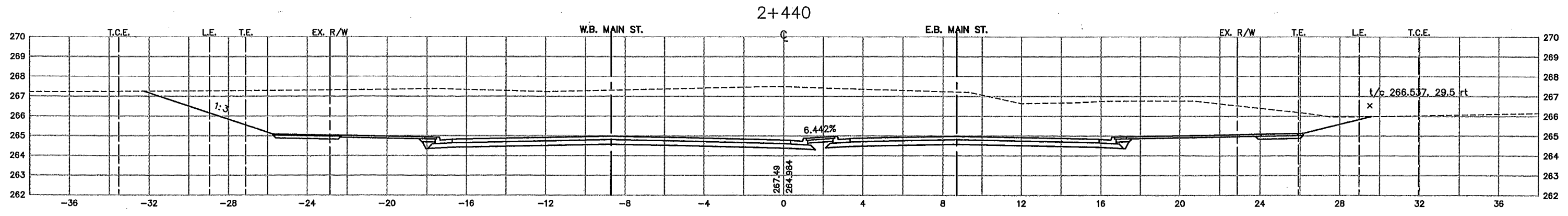
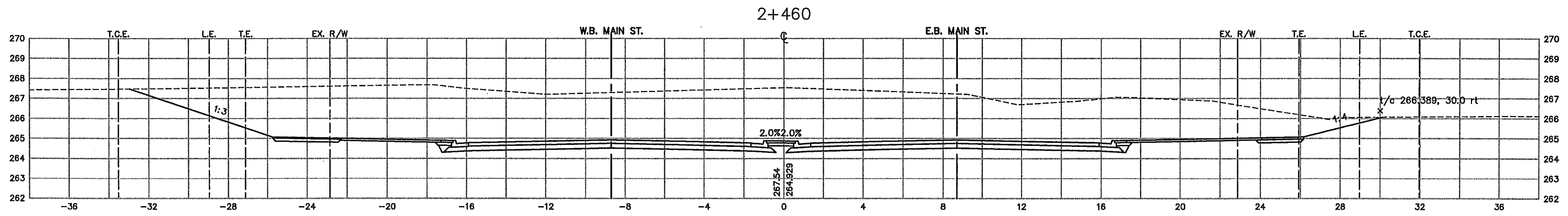
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 DATE: _____ MINN. REG. NO. _____

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 11:24am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan=st\242xs-06.dwg



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 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

CHKD. BY: PBD
DWG. NAME: 242XS-06

DATE:
NOVEMBER 5, 1999



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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

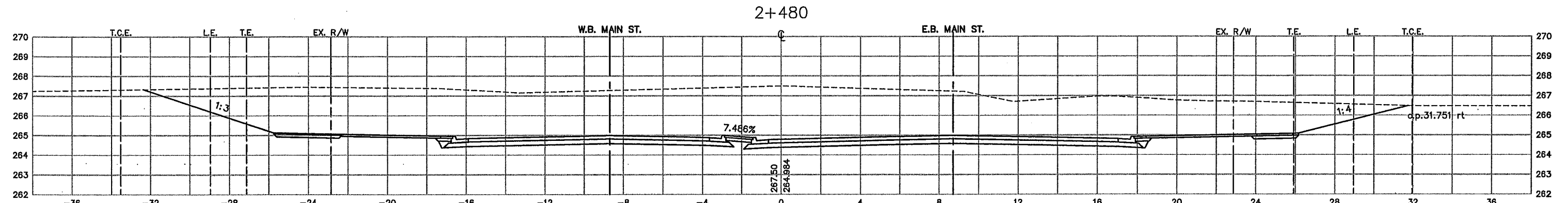
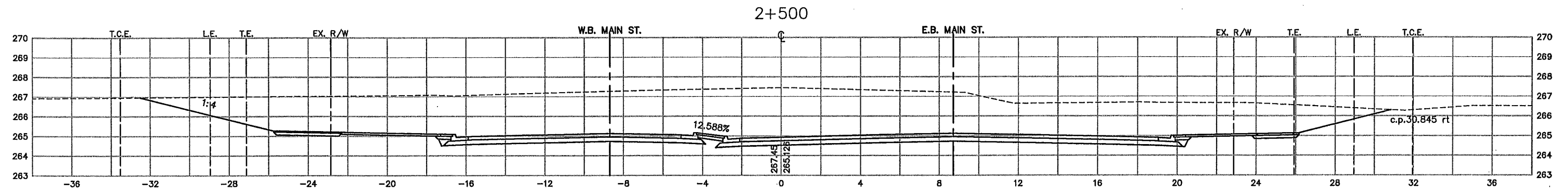
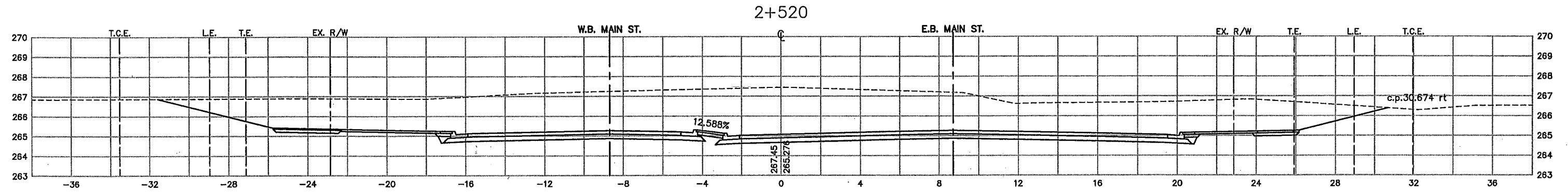
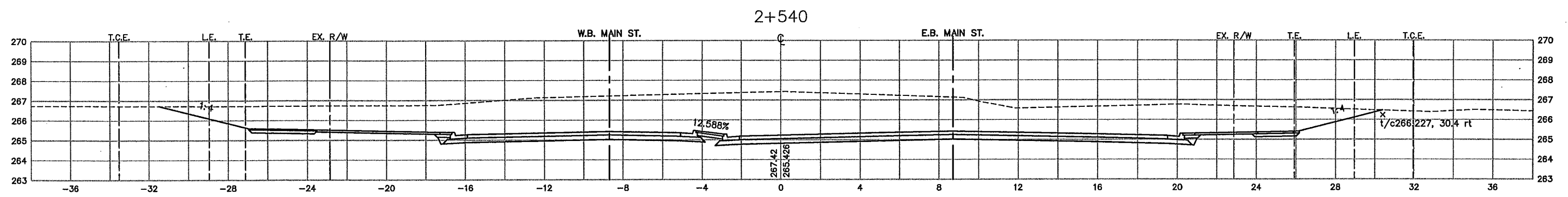
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

6 OF 16

SHEET NO.
425

539

PLOT DATE: Jan 03, 2000 11:25am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs-07.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

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

DESIGN FILE:
33889028

DRAWN BY: PMJ DESIGN BY: KPK

CHKD. 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

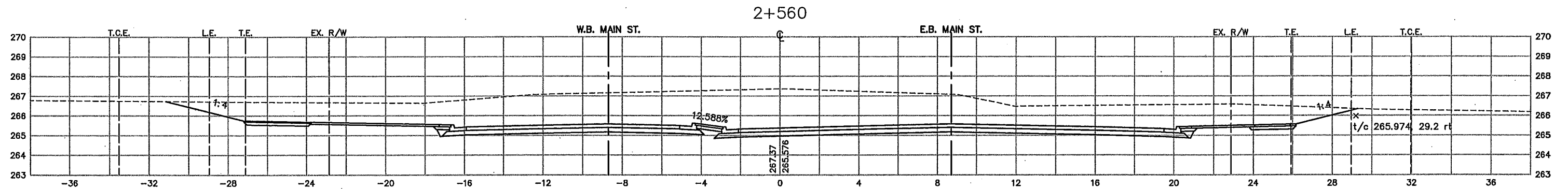
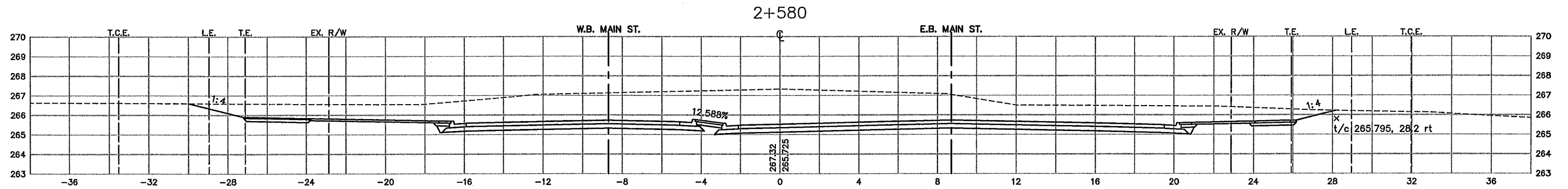
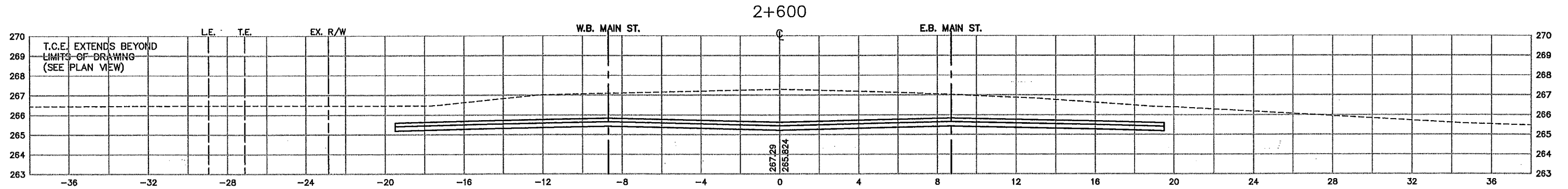
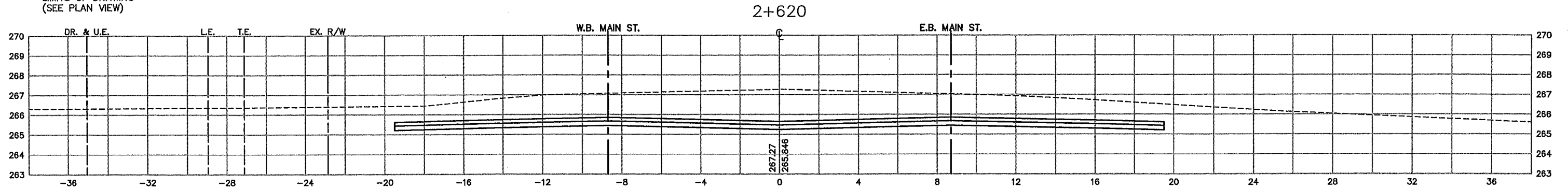
CITY PROJECT 98-20

S.P.	T.H. 242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.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

T.C.E. EXTENDS BEYOND LIMITS OF DRAWING (SEE PLAN VIEW)



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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

PLOT DATE: Jan 03, 2000 11:26am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs-08.dwg

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

DESIGN FILE: 33889028	DRAWN BY: PMJ	DESIGN BY: KPK
CHCKD. BY: PBD	DWG. NAME: 242XS-08	
DATE: NOVEMBER 5, 1999		



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DATE: _____ MINN. REG. NO. _____

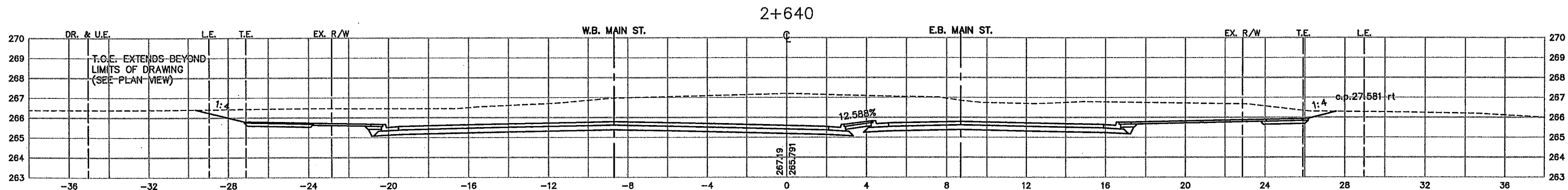
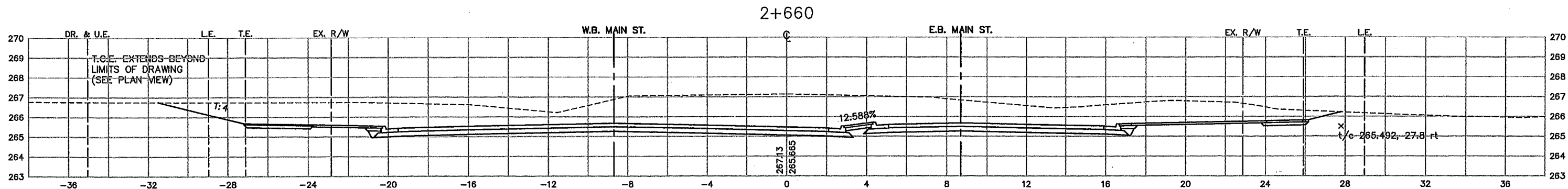
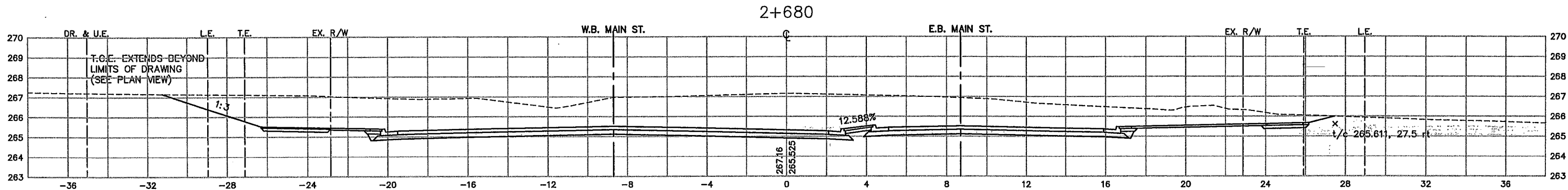
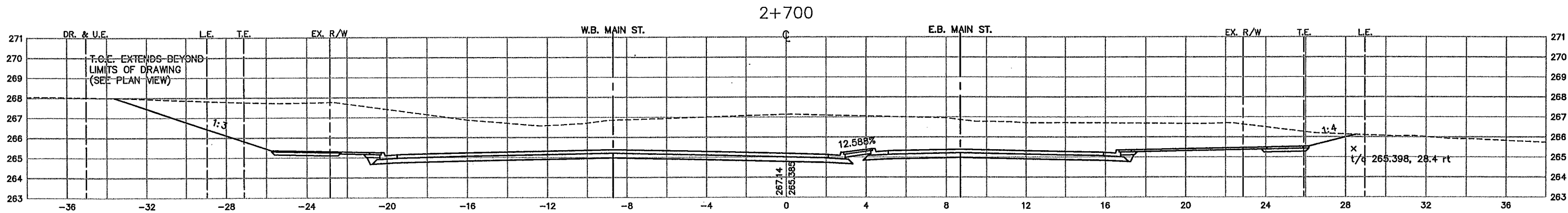
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
 CROSS SECTIONS
 STATION 2+560.000 TO STATION 2+620.000

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 11:26am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan\main\242xs-09.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
 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


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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)

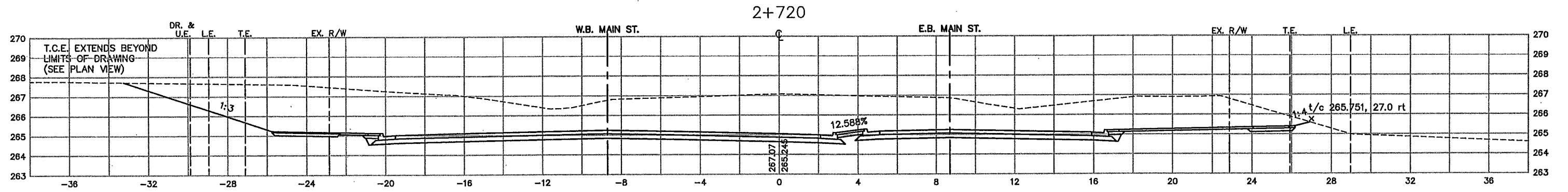
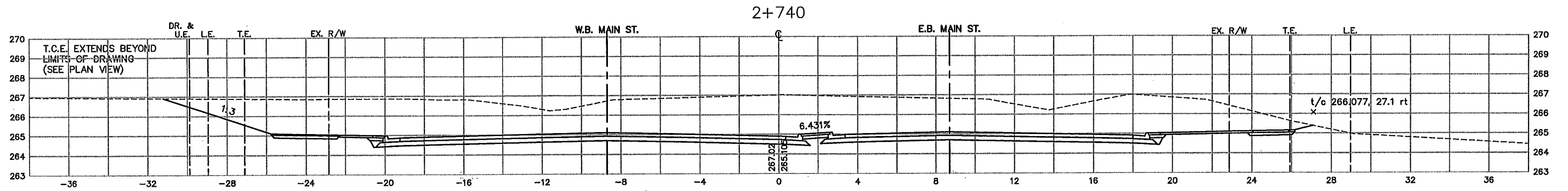
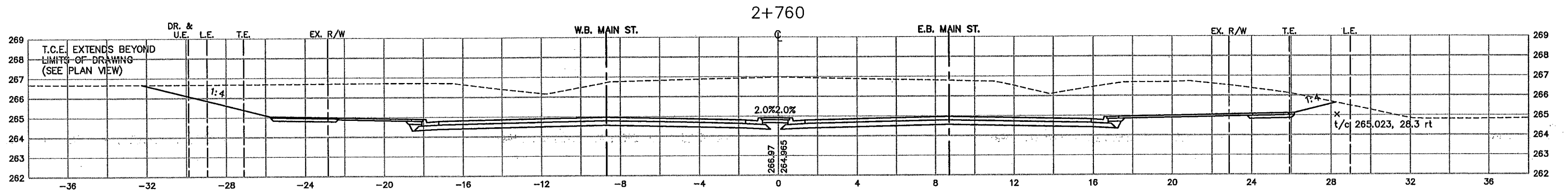
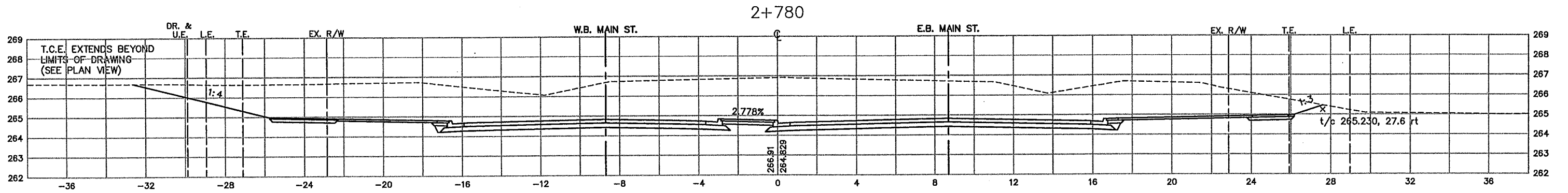
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

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: JUN 03 2000 11:27am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\SEC\plan_sht\242xs-10.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
 - 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
CHCKD. BY: PBD	DWG. NAME: 242XS-10	DATE: NOVEMBER 5, 1999



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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**

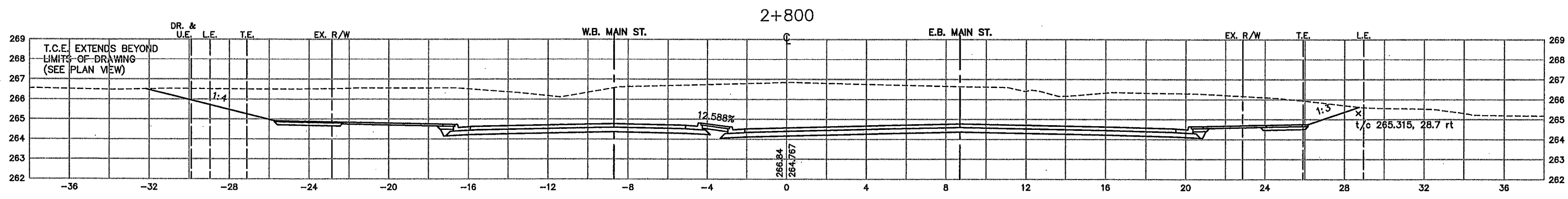
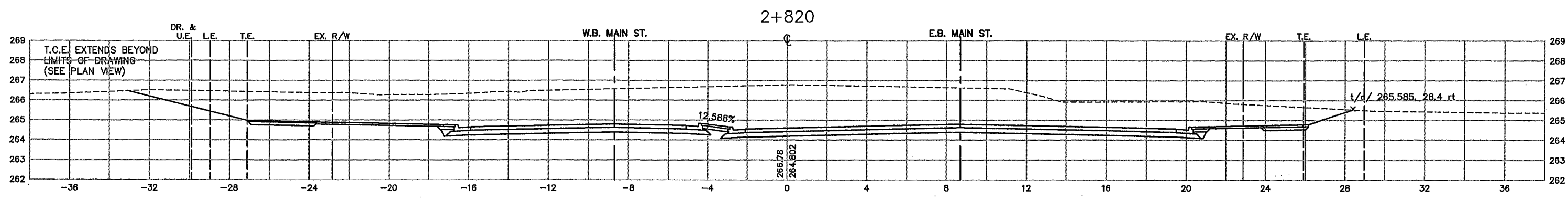
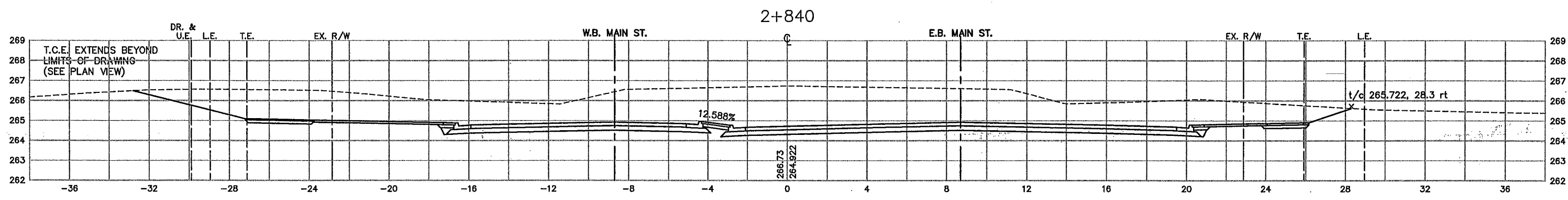
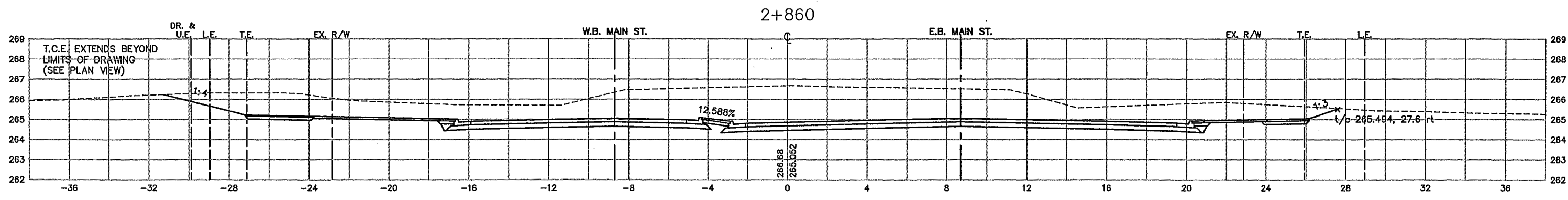
CITY PROJECT 98-20

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

PLOT DATE: Jan 05, 2000 11:28am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs-11.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
 - 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

CHKD. BY: PBD
DWG. NAME: 242XS-11

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+800.000 TO STATION 2+860.000**

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)

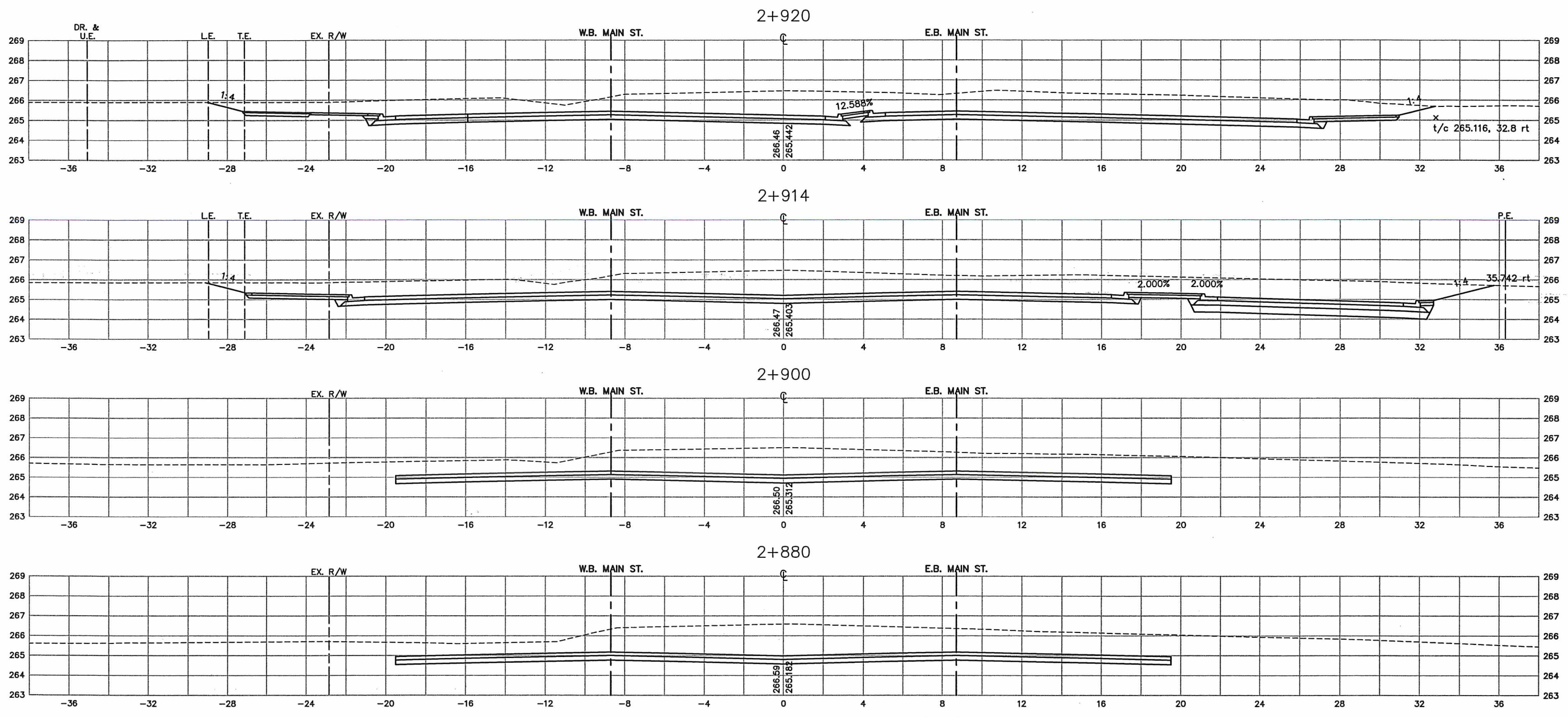
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

11 OF 16

SHEET NO.
430

539

PLOT DATE: Jan 03, 2000 11:28am DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan_sht\242xs-12.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
 - 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

CHKD. BY: PBD DWG. NAME: 242XS-12

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
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)

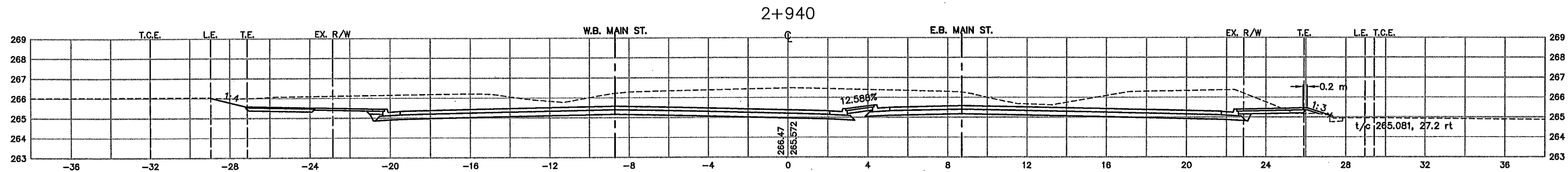
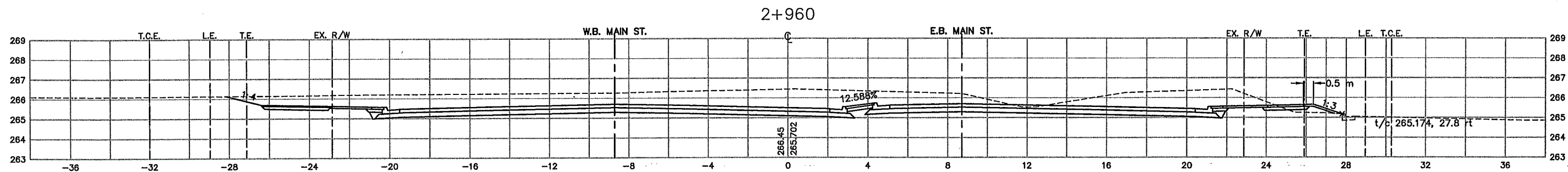
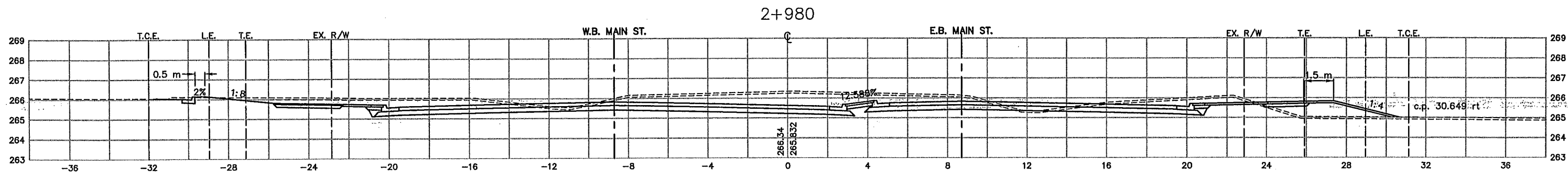
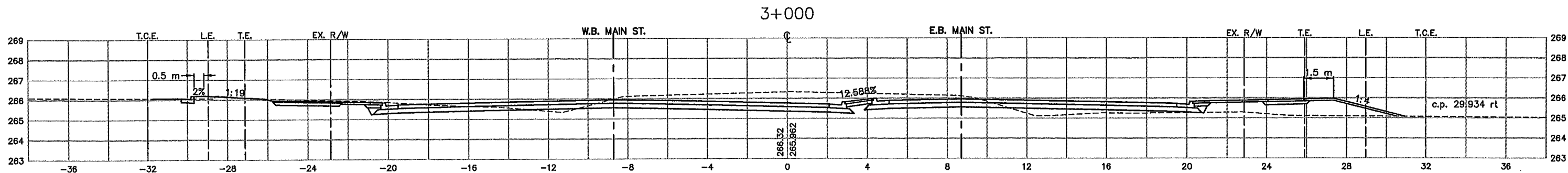
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

12 OF 16

SHEET NO.
431

539

PLOT DATE: Jun 25, 2000 3:05pm DISK FILE NAME: (1,4,01) R:\33889\33889D28\33889W\XSEC\plair_sht\242xs-13.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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	MOD. REQ. #38: MODIFIED CROSS SECTIONS 2+940-3+000
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
DRAWN BY:
PMJ
DESIGN BY:
KPK
CHKD. BY:
PBD
DWG. NAME:
242XS-13
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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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

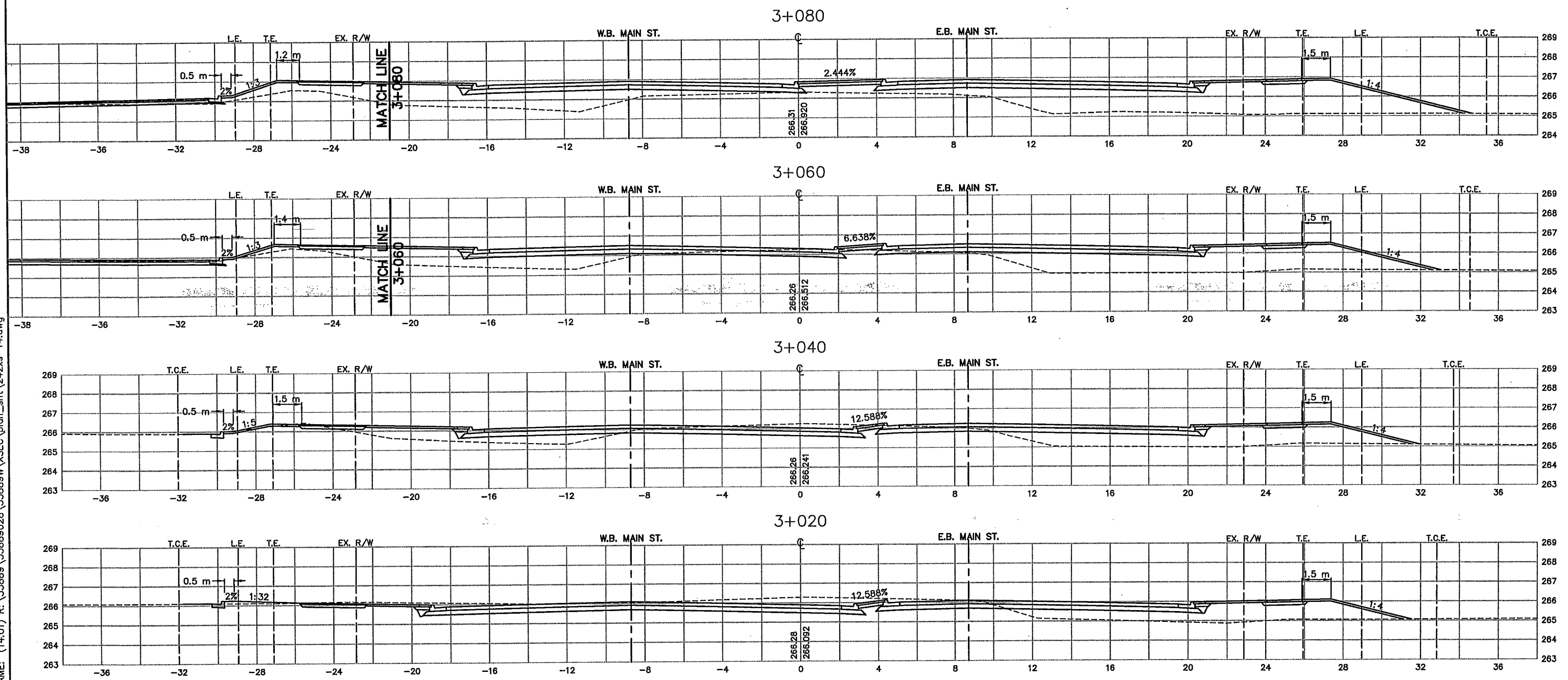
S.P.	T.H. 242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.

432

539

PLOT DATE: Jun 28, 2000 3:07pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan_sht\242xs-14.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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	MOD. REG.#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

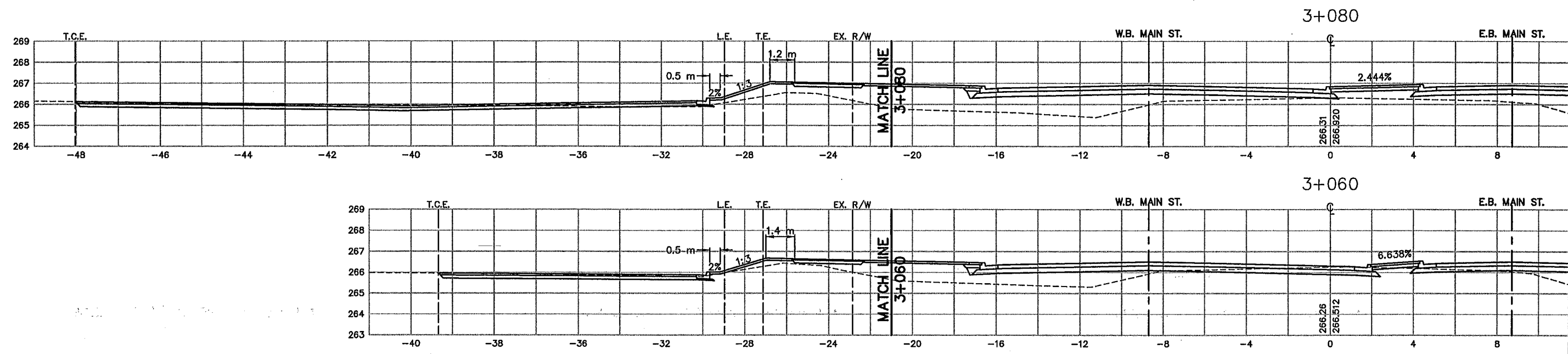


I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

**MAIN STREET/T.H. 242 RECONSTRUCTION
 MAIN STREET (C.S.A.H. 14)
 CROSS SECTIONS
 STATION 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 3:09pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs14A.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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/5/00	NEW SHT. NO. 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

CHKD. BY: PBD DWG. NAME: 242XS14A

DATE:
JUNE 19, 2000



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 3+060.000 TO STATION 3+080.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)

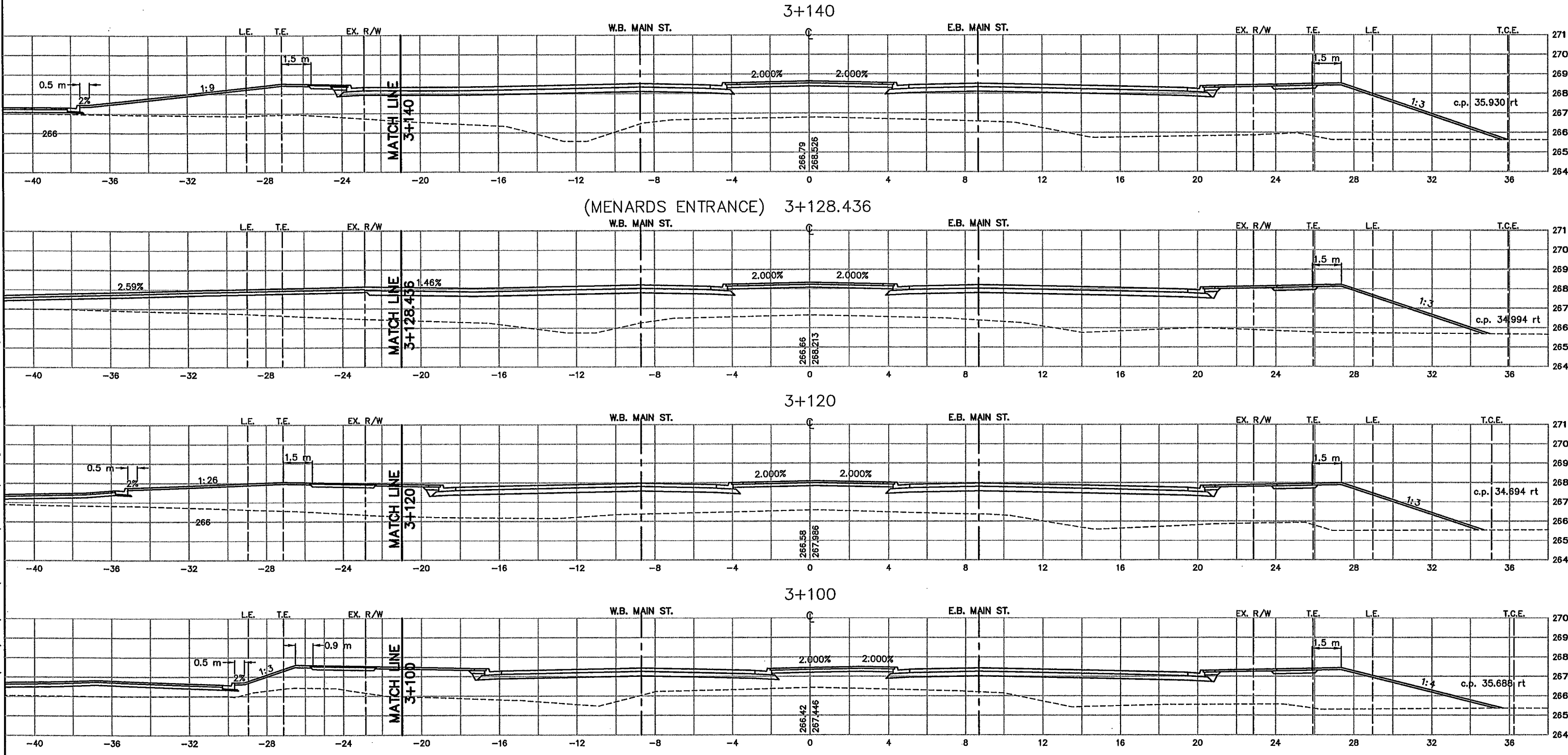
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

14A OF 16

SHEET NO.
433A

539

PLOT DATE: Jun 28, 2000 3:09pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan_sht\242xs-15.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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	7/6/00	MOD. REQ. #38; MODIFIED CROSS SECTIONS 3+100-3+140
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
 DRAWN BY:
PMJ
 DESIGN BY:
KPK
 CHECKED BY:
PBD
 DWG. NAME:
242XS-15
 DATE:
NOVEMBER 5, 1999



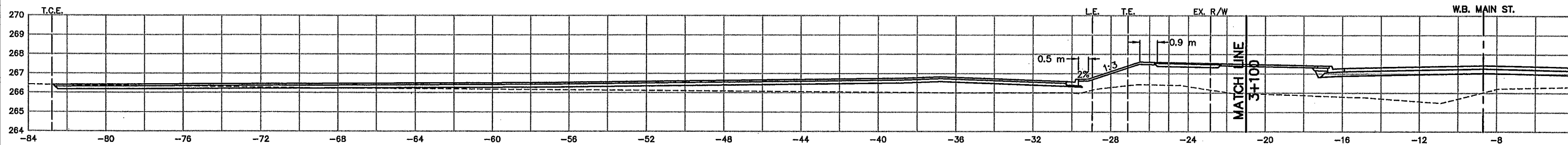
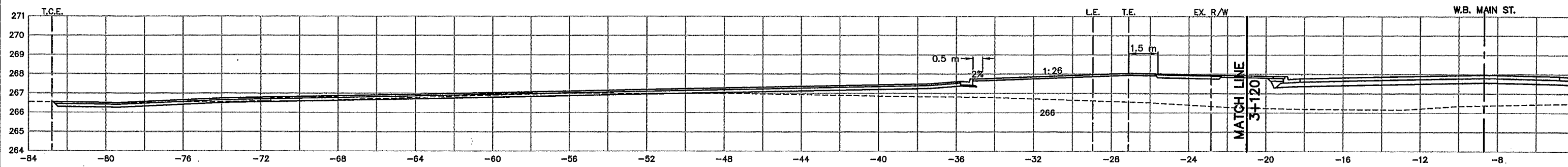
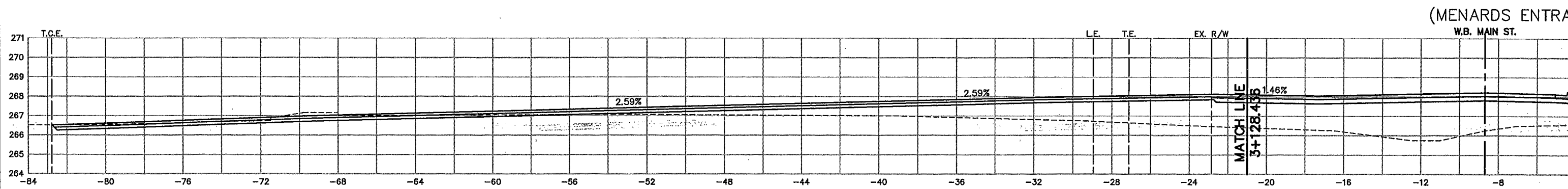
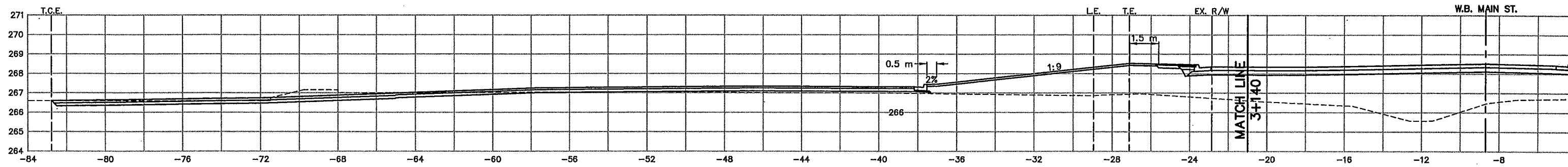
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (C.S.A.H. 14)
 CROSS SECTIONS
 STATION 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 3:10pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\pldr_sht\242xs15a.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

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

CHKD. BY: PBD DWG. NAME: 242XS15a

DATE: JUNE 19, 2000



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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

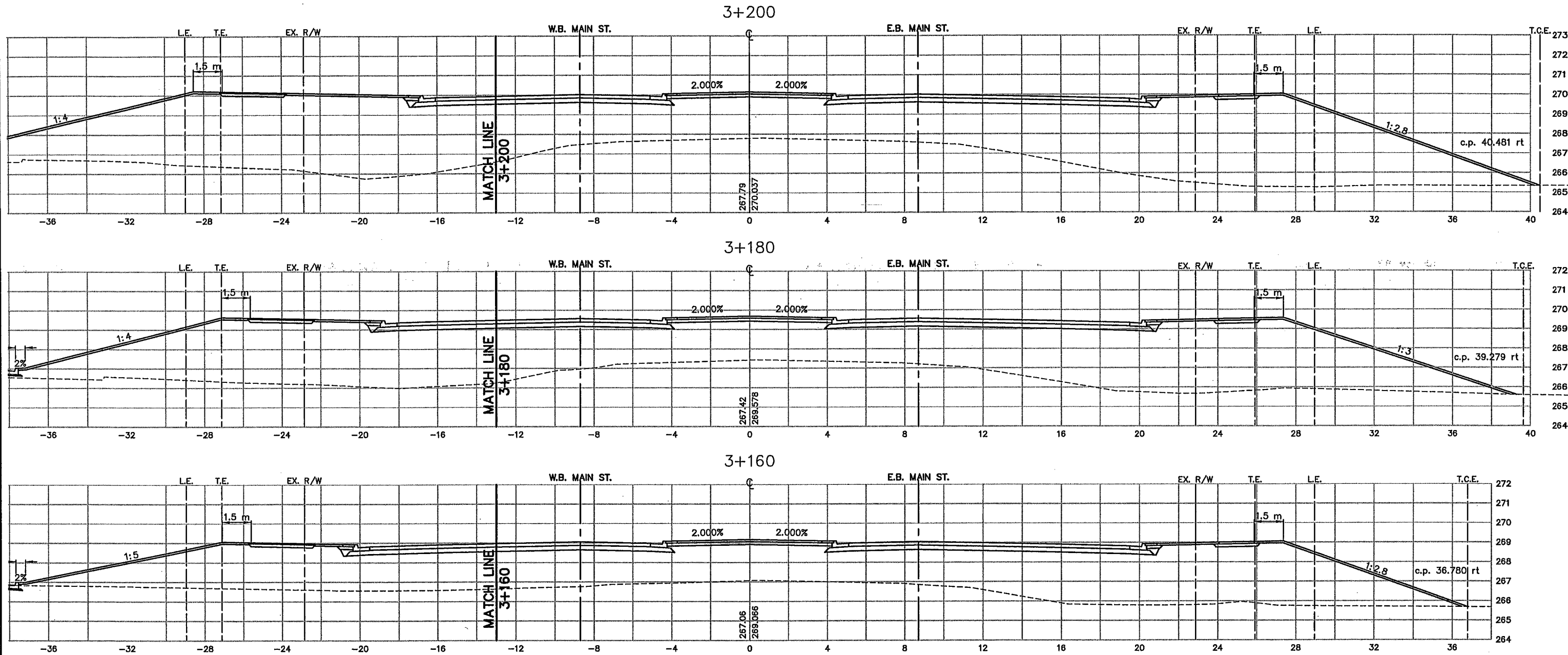
S.P.	T.H. 242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

15A OF 16

SHEET NO. **434A**

539

PLOT DATE: Jun 2 3:10pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\pic\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

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
 CHKD. 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
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
 (612)370-1378 (FAX)

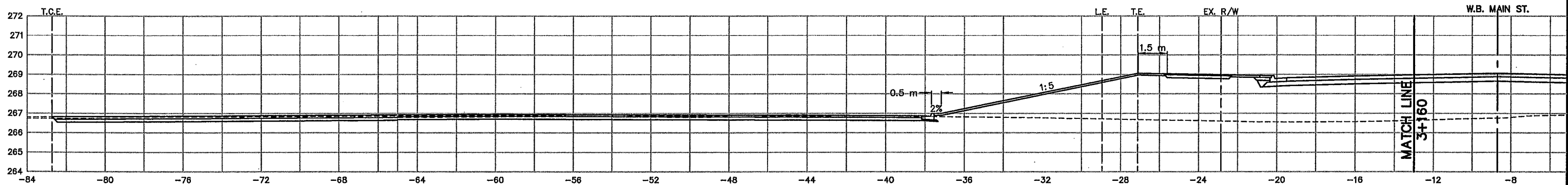
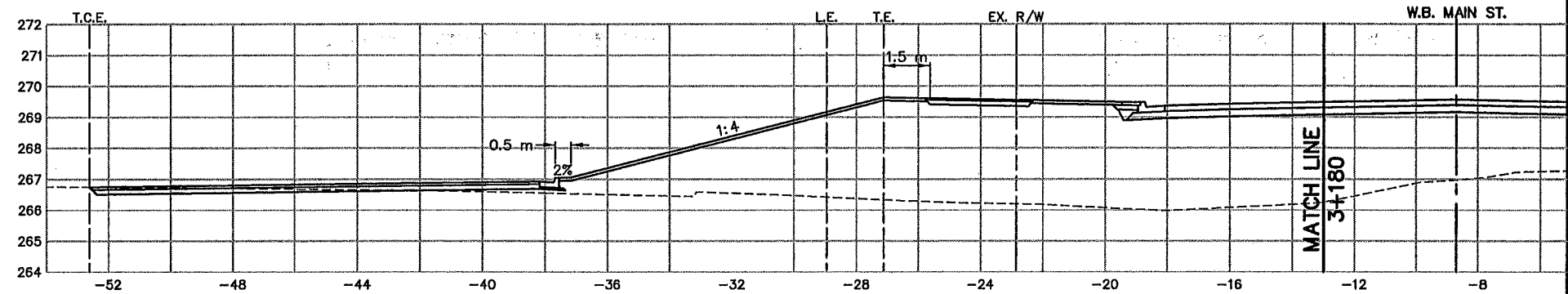
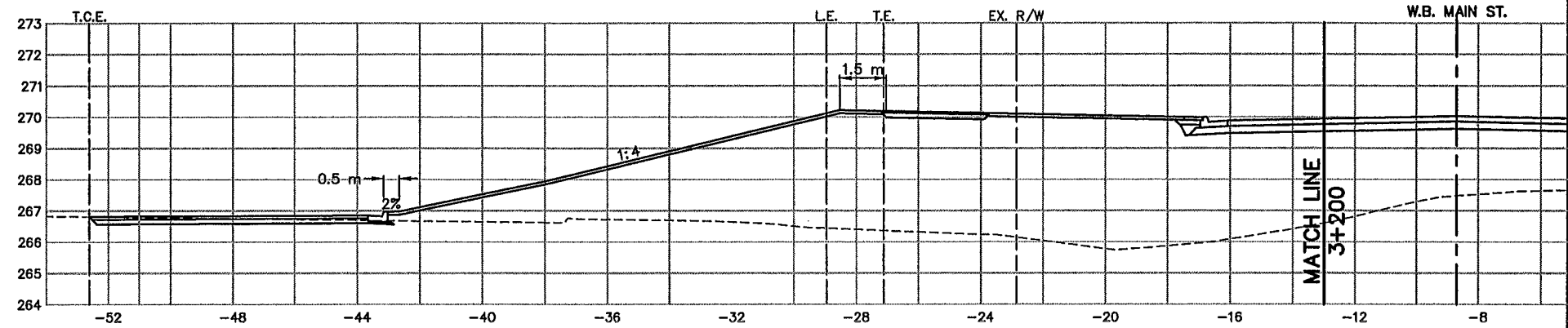
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

**MAIN STREET/T.H. 242 RECONSTRUCTION
 MAIN STREET (C.S.A.H. 14)
 CROSS SECTIONS
 STATION 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

16 OF 16
 SHEET NO. 435
 539

PLOT DATE: Jun 28, 2000 3:11pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_sht\242xs16A.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
 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 SECTIONS
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
 DRAWN BY: PMJ
 DESIGN BY: KPK
 CHKD. BY: PBD
 DWG. NAME: 242XS16A
 DATE: JUNE 19, 2000



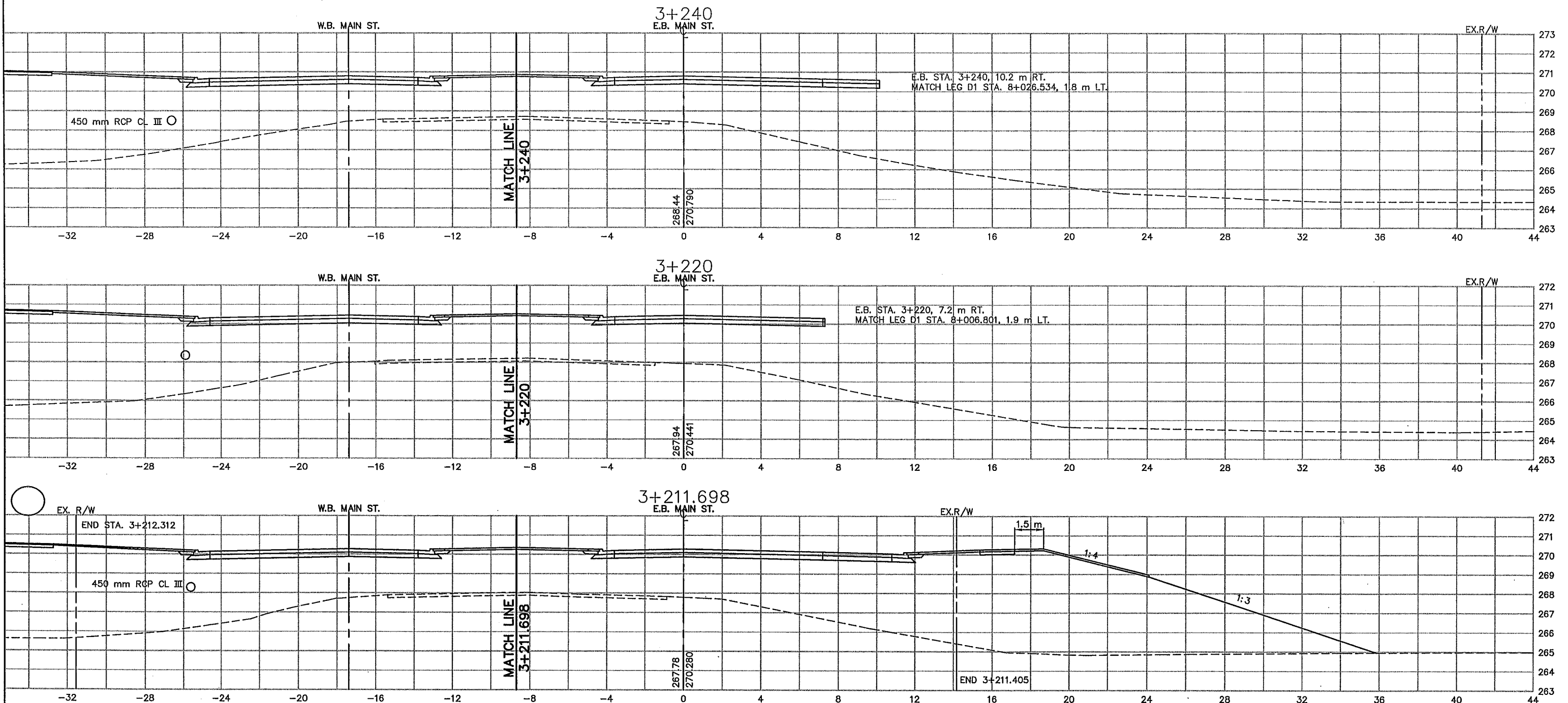
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

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

16A OF 16
 SHEET NO. 435A
 539

PLOT DATE: Jun 2 3:12pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL\HT\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

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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	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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS01	
DATE: NOVEMBER 5, 1999		



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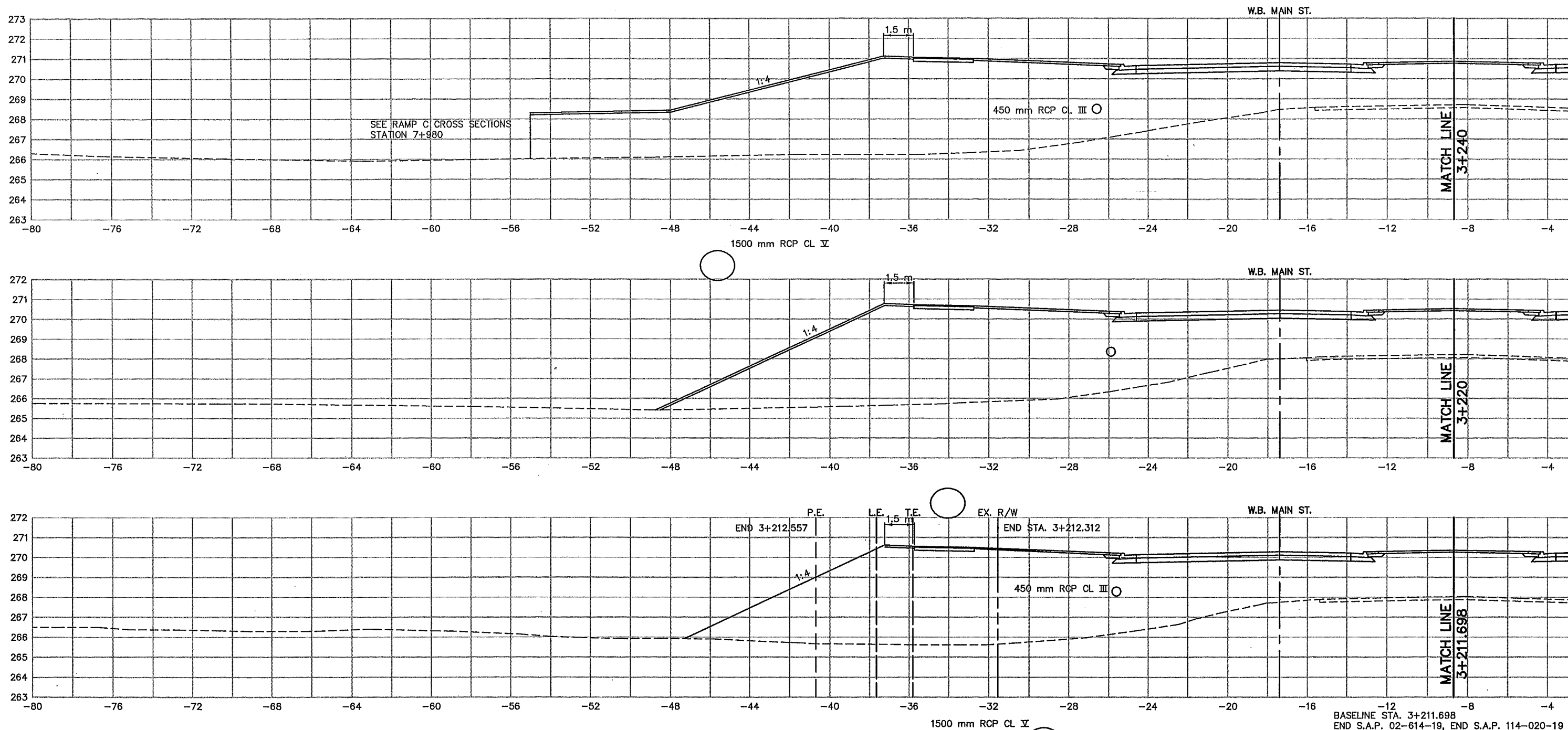
Kevin P. Kuehl

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)	SHEET NO.
S.A.P. 02 - 614 - 19	436
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	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

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

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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS02	
DATE: NOVEMBER 5, 1999		



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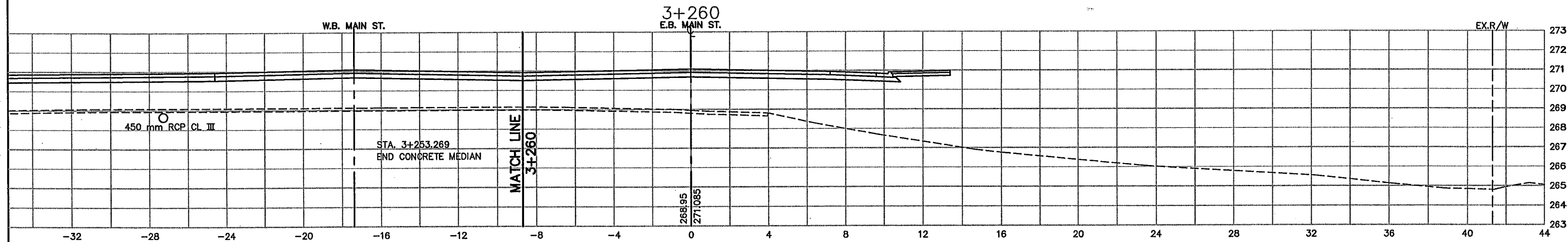
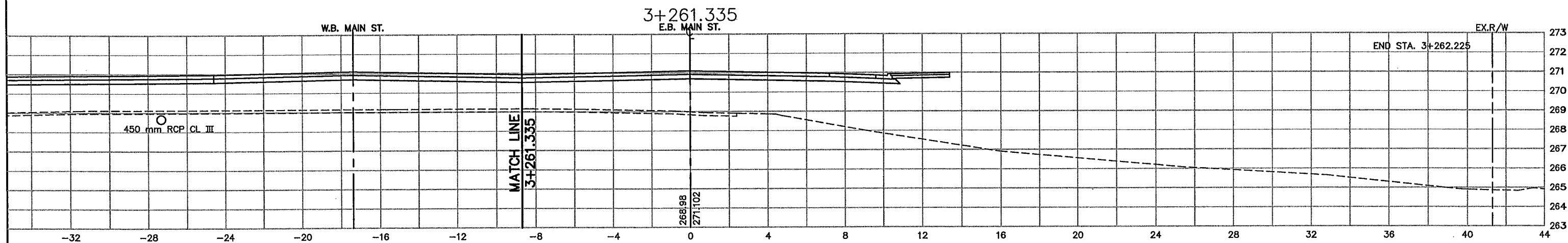
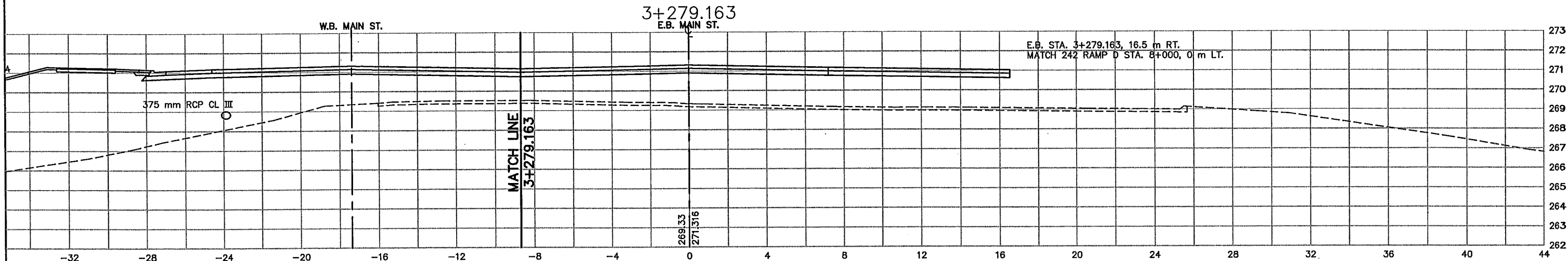
Kevin P. Kiehl
 DATE: 11/5/99 MINN. REG. NO. 23211

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	

PLOT DATE: Aug 0 1:28pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL\HT\242xs03.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
CHKD. BY: KPK/PBD	DWG. NAME: 242XS03
DATE: NOVEMBER 5, 1999	



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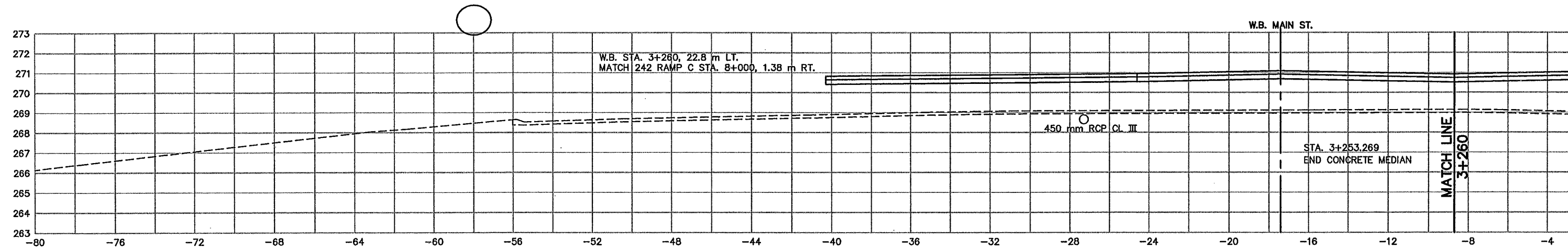
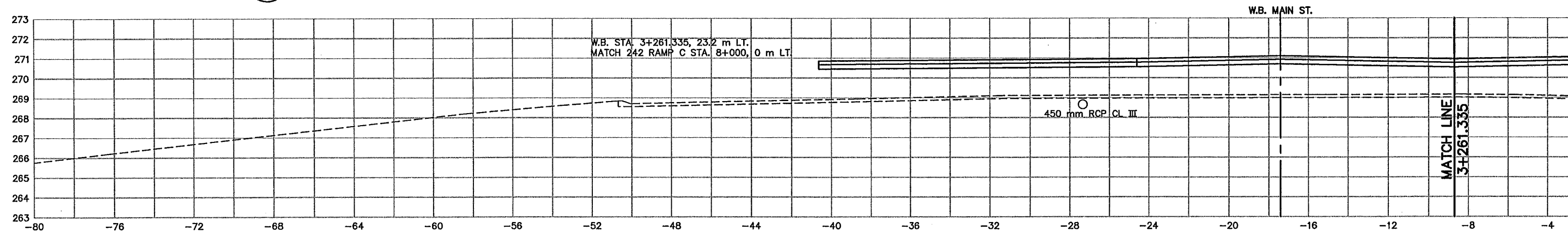
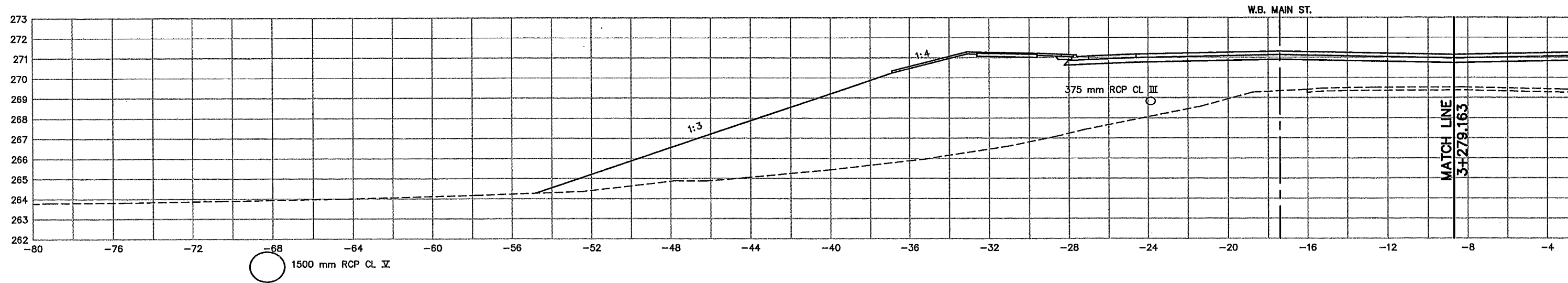


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Kevin P. Kullb
 DATE: 11/5/99 MINN. REG. NO. 23211

**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



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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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS04
DATE: NOVEMBER 5, 1999	



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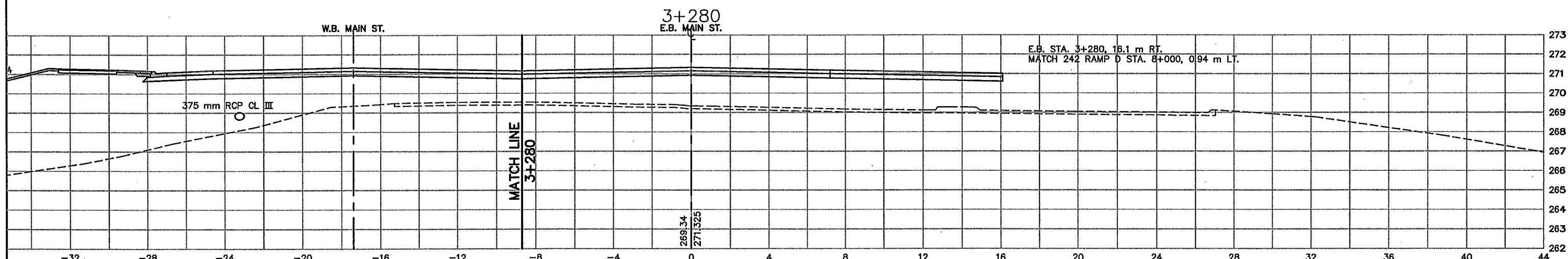
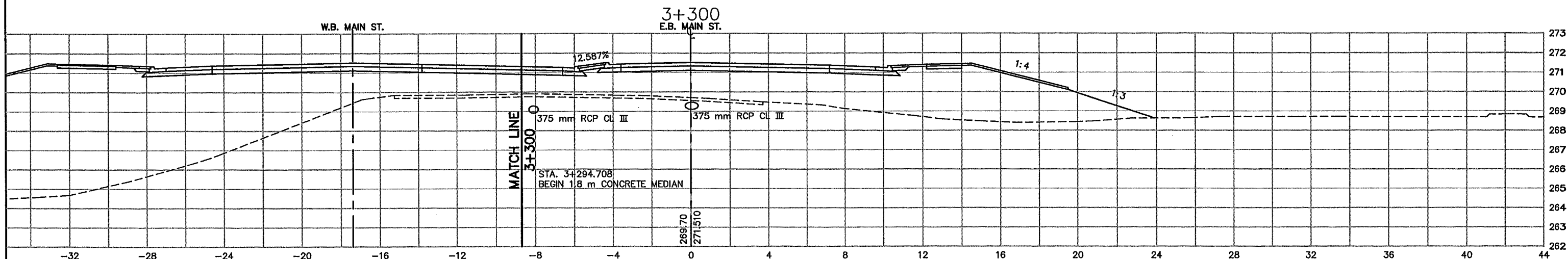
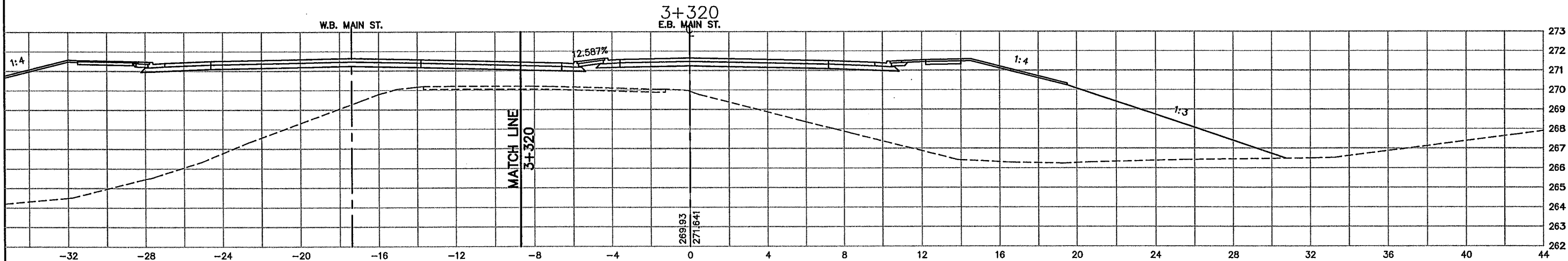
Kevin P. Xie
DATE: 11/5/99 MINN. REG. NO. 23211

**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 04 1:34pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL\3HT\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
 CHKD. BY: KPK/PBD
 DWG. NAME: 242EXS05
 DATE: NOVEMBER 5, 1999

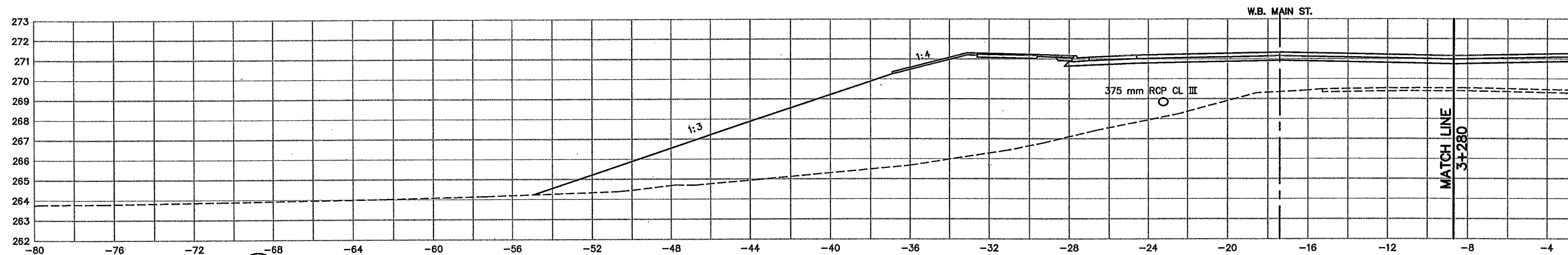
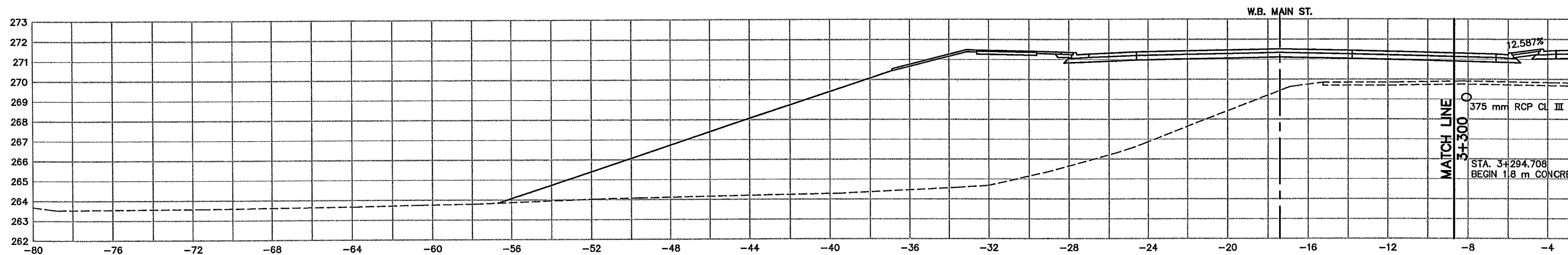
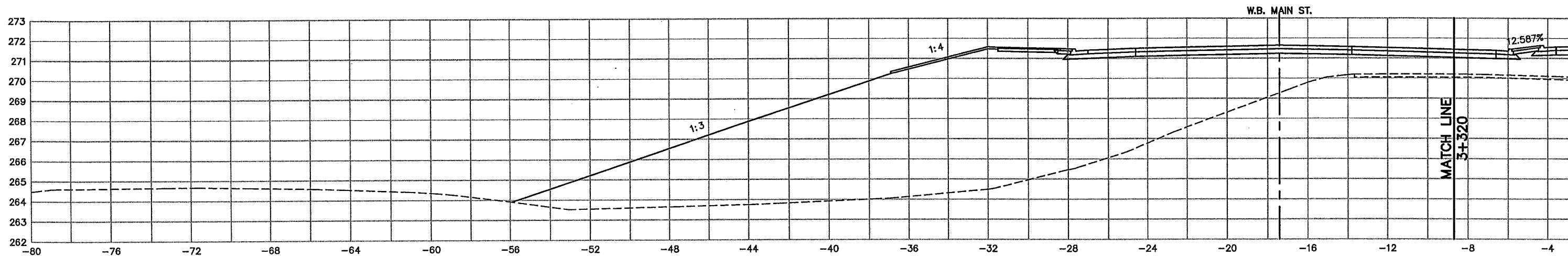


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Kevin P. Kielb
 DATE: 11/5/99 MINN. REG. NO. 23211

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	DESIGN BY: KPK
DRAWN BY: IKR	DWG. NAME: 242EXS06
CHKD. BY: KPK/PBD	DATE: NOVEMBER 5, 1999



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A DAMES & MOORE GROUP COMPANY

THRASHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P. Kuhl
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

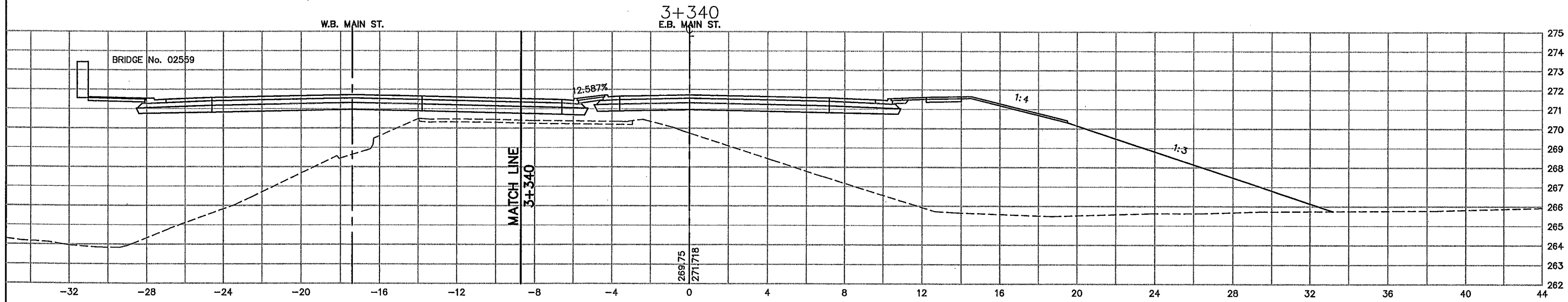
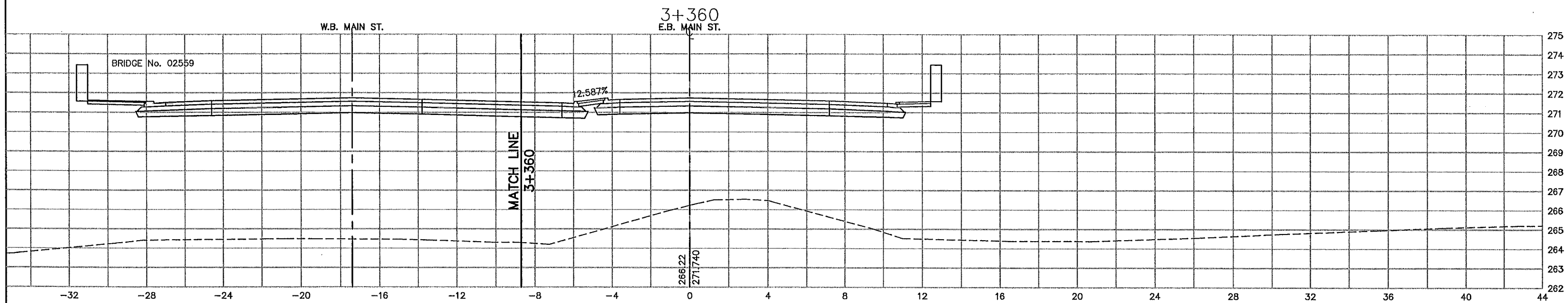
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S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO.

441

539

PLOT DATE: Aug 02, 2004 1:35pm DISK FILE NAME: (15.06) R:\33889\33889028\XSEC\PLANT\SHY\242exs07.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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS07
DATE: NOVEMBER 5, 1999	



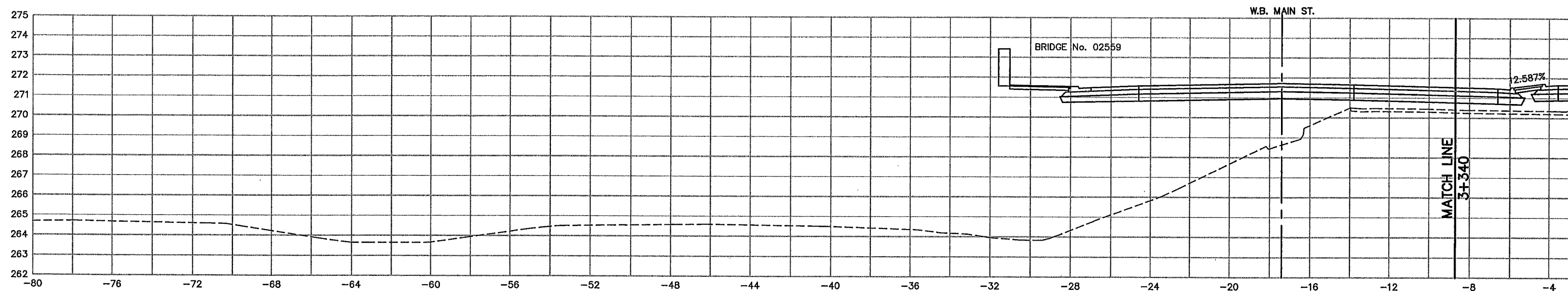
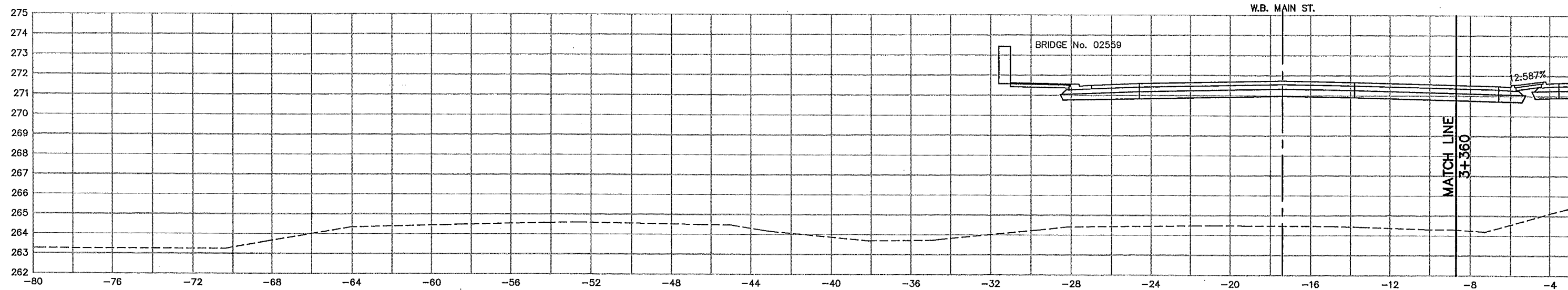
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Kevin P. Kullb
DATE: 11/5/99 MINN. REG. NO. 23211

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

7 OF 42
SHEET NO. **442**
539

PLOT DATE: Aug 02, 2004 1:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PLANT-SHT\242exs08.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	ISR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	
DRAWN BY: IKR	DESIGN BY: KPK
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS08
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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Berwin P. Kullb
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
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S.A.P.	114 - 127 - 02

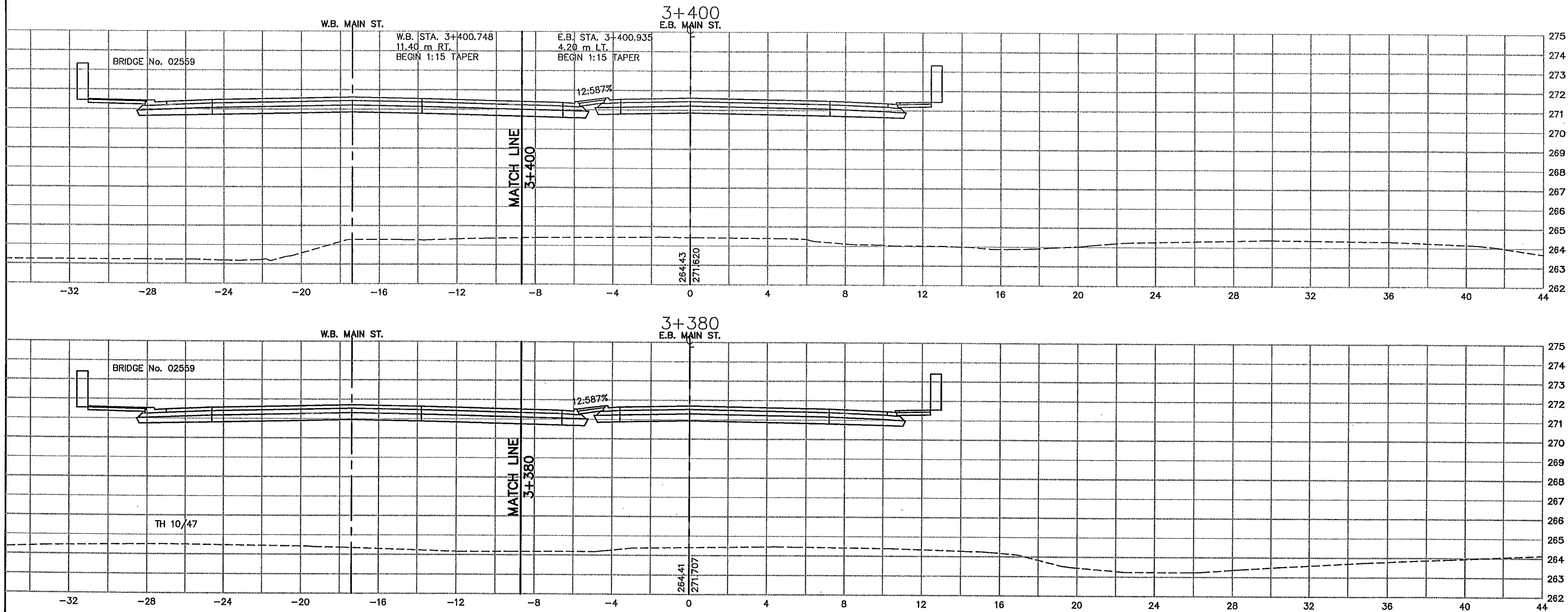
8 OF 42

SHEET NO.

443

539

PLOT DATE: Aug 04 1:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL\3HT\242exs09.dwg



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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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS09
DATE: NOVEMBER 5, 1999	



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700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P. Kiehl

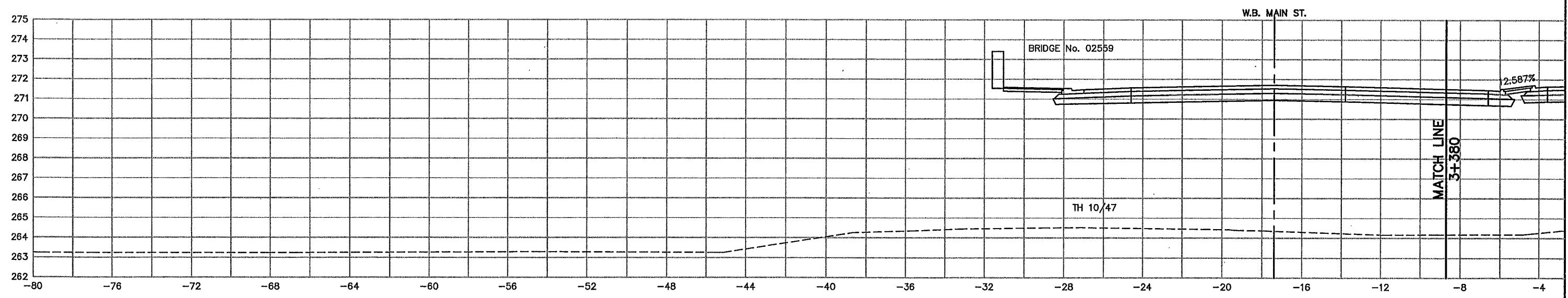
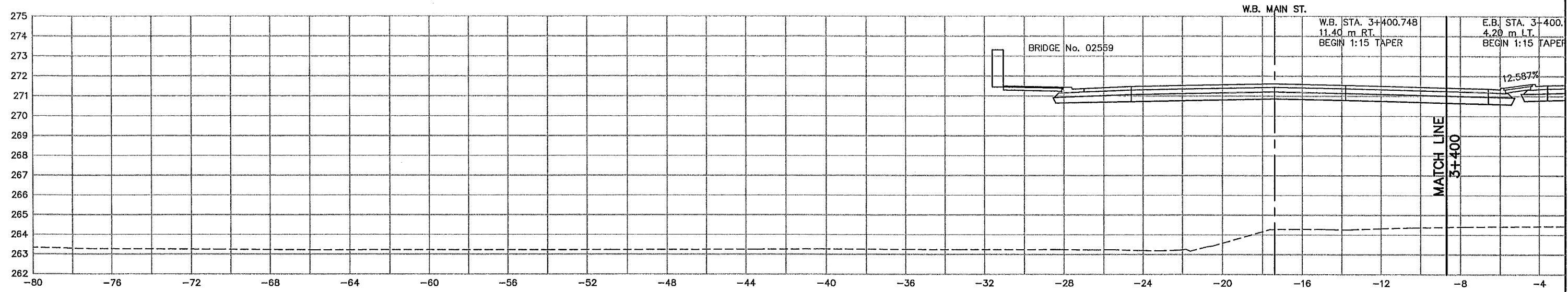
DATE: 11/5/99 MINN. REG. NO. 23211

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

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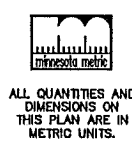
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LEGEND:

- 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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS10
DATE: NOVEMBER 5, 1999	



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Kevin P. Kullb

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

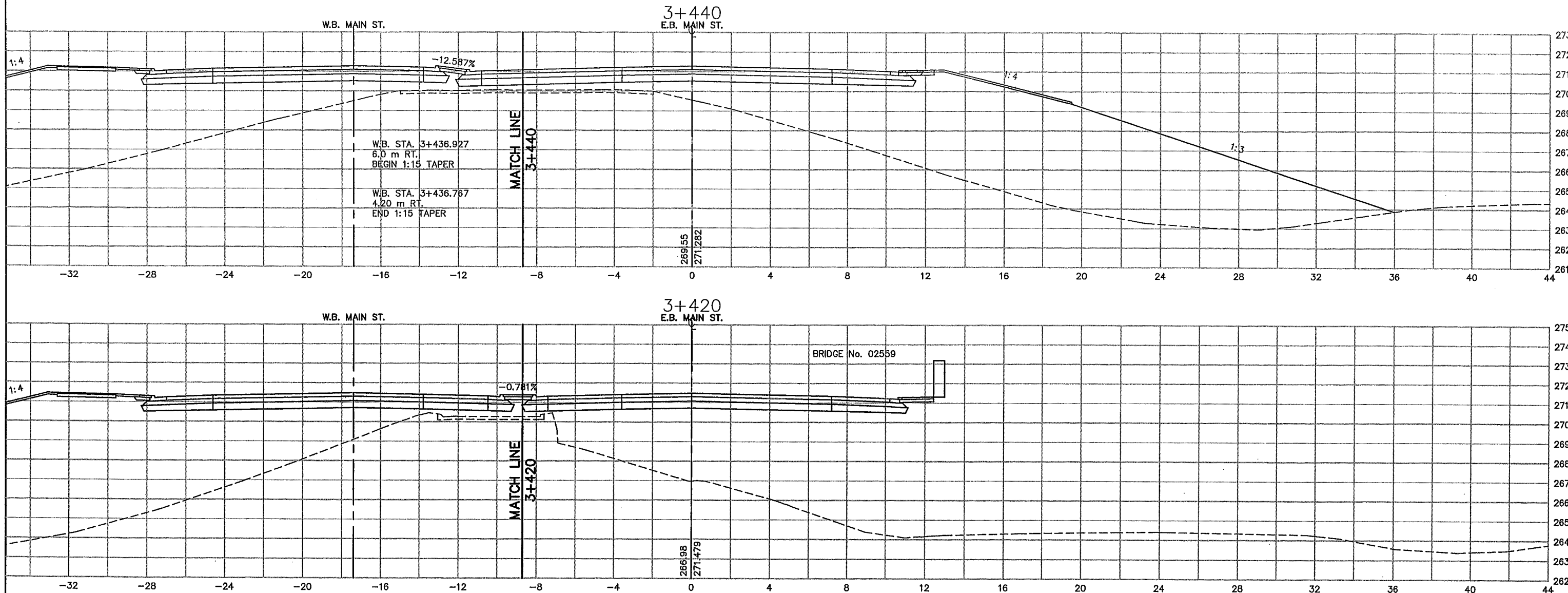
S.P. 0212-40 (T.H.242=242)	
S.A.P. 02 - 614 - 19	
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	

10 OF 42

SHEET NO.
445

539

PLOT DATE: Aug 11 2004 1:36pm DISK FILE NAME: (15.06) R:\33889\33889028\XSEC\PL\SHIT\242exs11.dwg



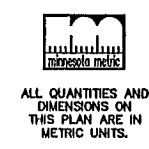
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS11
DATE: NOVEMBER 5, 1999	



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Kevin P. Kiehl

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

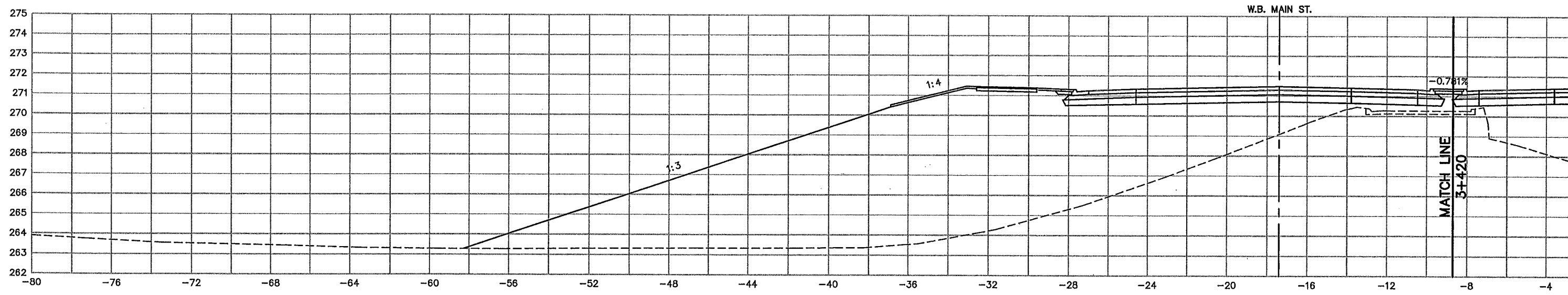
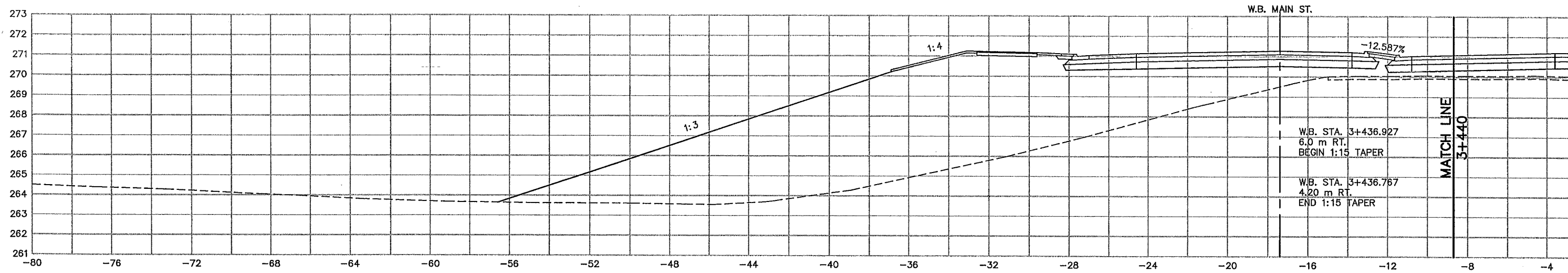
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

11 OF 42

SHEET NO.
446

539

PLOT DATE: Aug 2004 1:36pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\XSEC\PL\SHIT\242exs12.dwg



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LEGEND:
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 D.R.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	DESIGN BY: KPK
DRAWN BY: IKR	CHKD. BY: KPK/PBD
DWG. NAME: 242EXS12	DATE: NOVEMBER 5, 1999

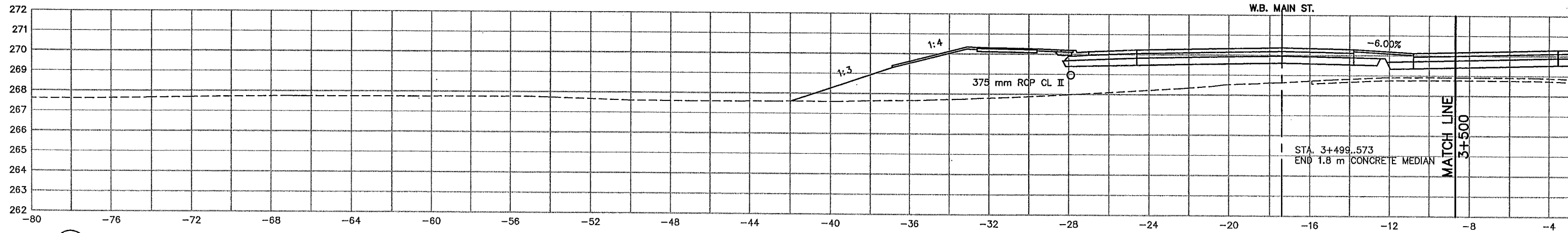


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Kevin P. Kuehl
 DATE: 11/5/99 MINN. REG. NO. 23211

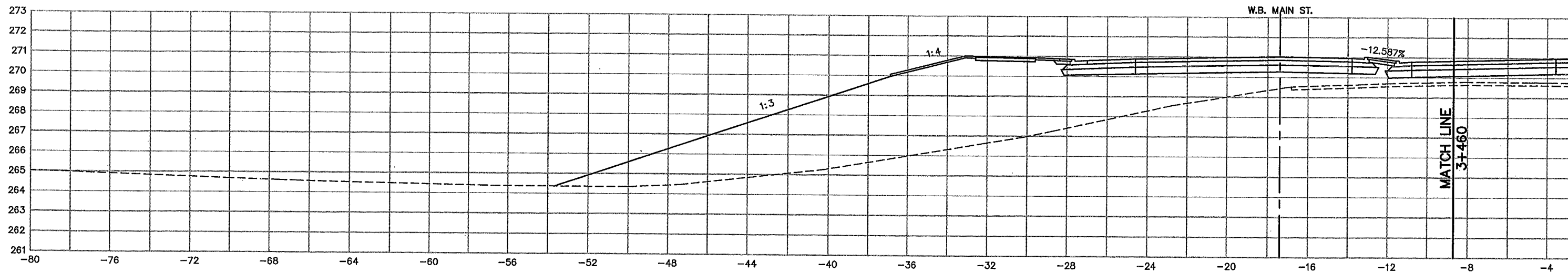
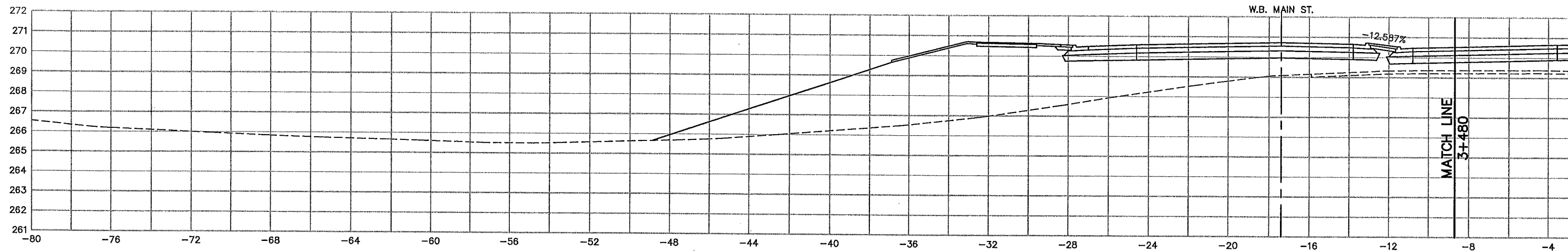
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
 CROSS SECTIONS
 STATION 3+420.000 TO STATION 3+440.000
 CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	447
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PLOT DATE: Aug 04 1:37pm DISK FILE NAME: (15.06) R:\33889\33889028\XSEC\PL\242\242exs14.dwg



1500 mm RCP CL V



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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
CHKD. BY:
KPK/PBD
DWG. NAME:
242EXS14
DATE:
NOVEMBER 5, 1999



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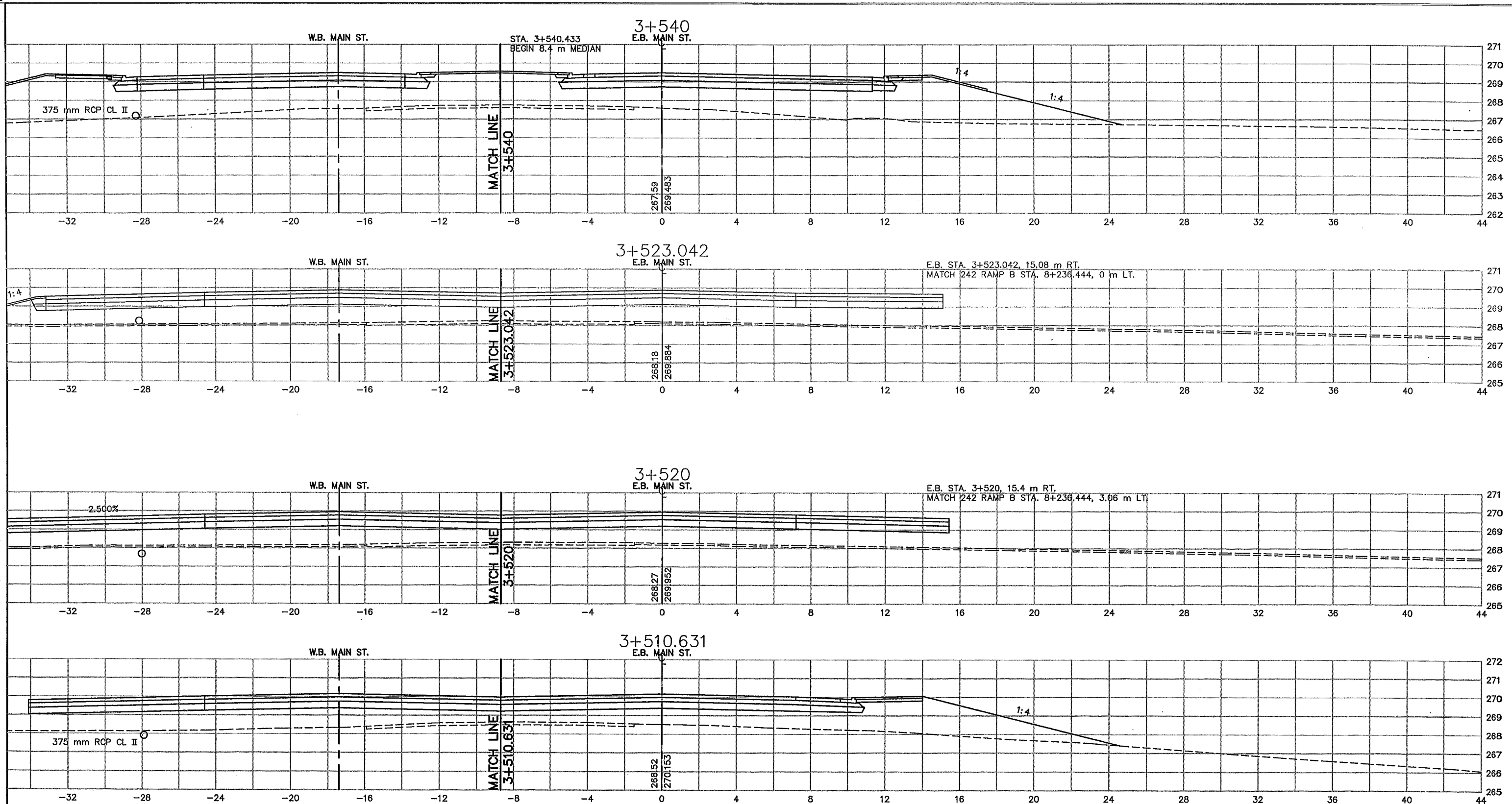
BRW
A DAMES & MOORE GROUP COMPANY
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P. Kuhl
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

14 OF 42
SHEET NO.
449
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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS15
DATE: NOVEMBER 5, 1999	



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Kevin P. Xie

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)

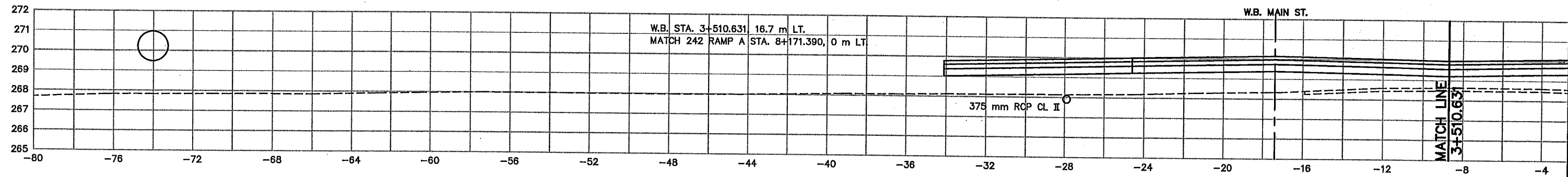
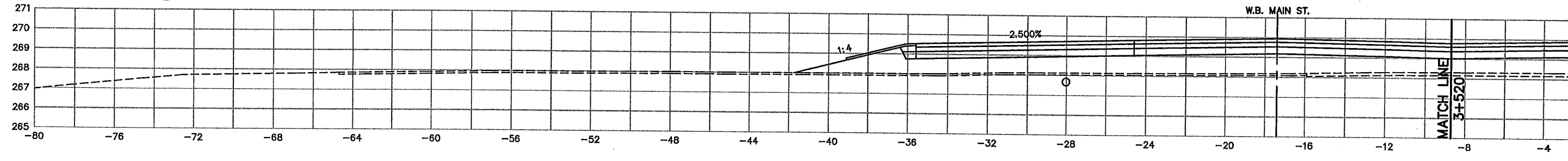
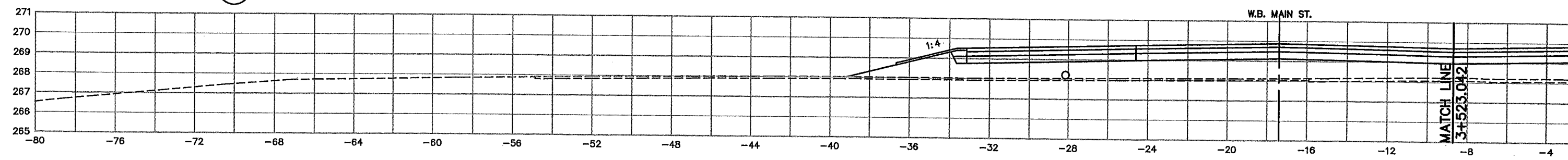
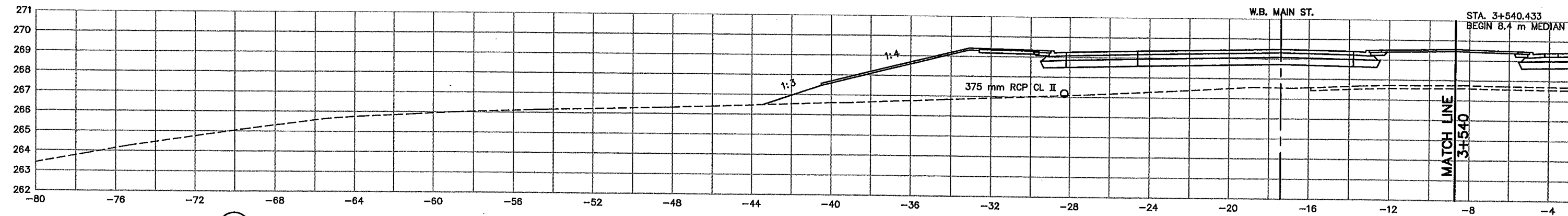
S.A.P.	02 - 614 - 19
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S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

15 OF 42

SHEET NO.
450

539

PLOT DATE: Jan 2000 11:54am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLANS\SHT\242exs16.dwg





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 - D.R.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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS16
DATE: NOVEMBER 5, 1999	


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(612)370-1378 (FAX)

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

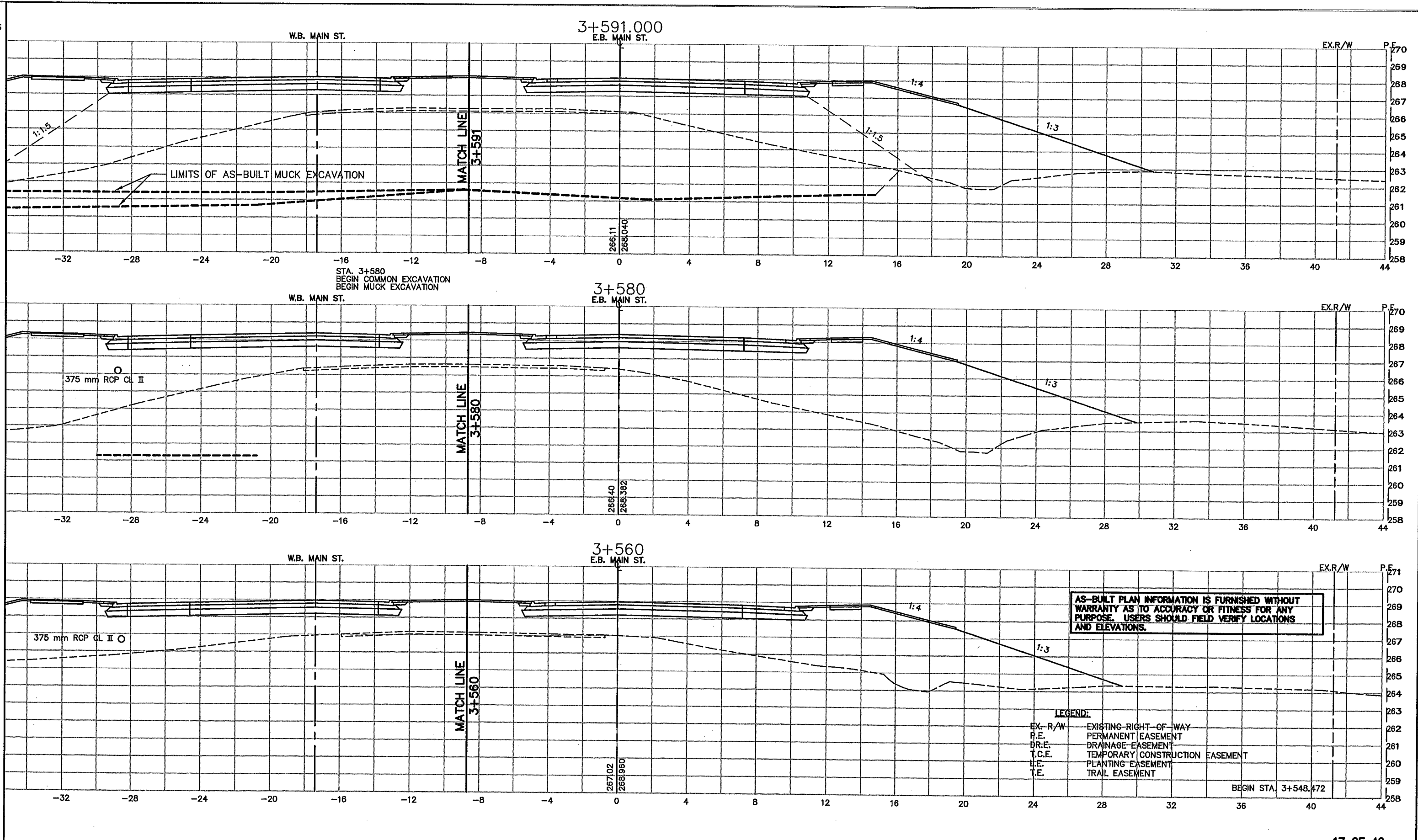
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+510.631 TO STATION 3+540.000

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

16 OF 42
SHEET NO.
451
539

PLOT DATE: Aug 2000 3:42pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\Plan\T.H.242\exs17.dwg



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
D.R.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	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

CHKD. BY: KPK/PBD DWG. NAME: 242EXS17

DATE: NOVEMBER 5, 1999



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700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55416
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P. Kullb

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)

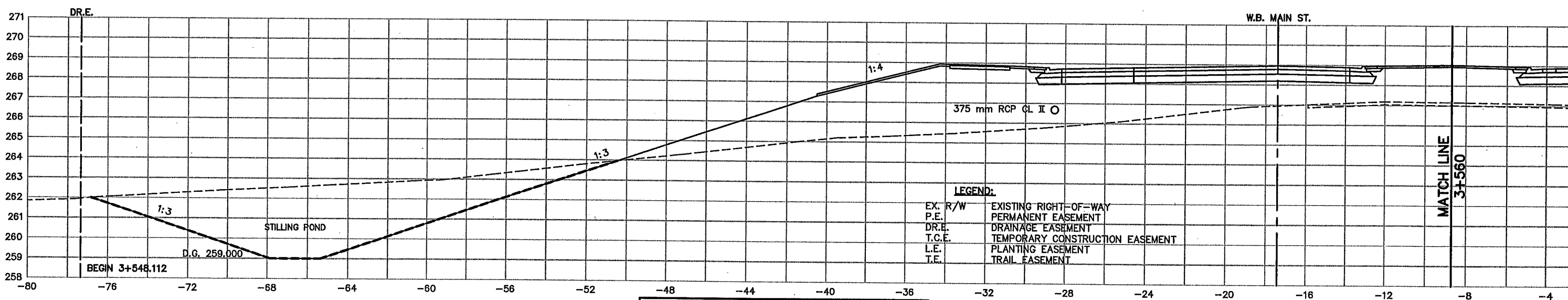
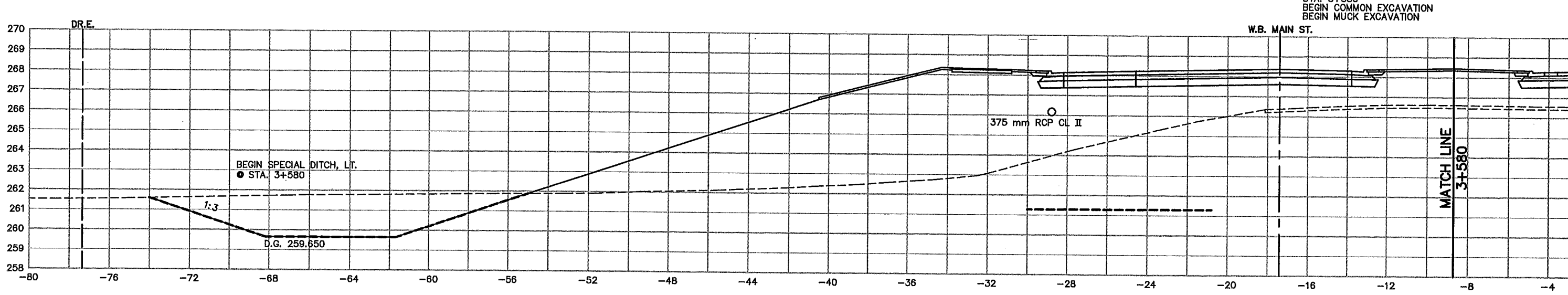
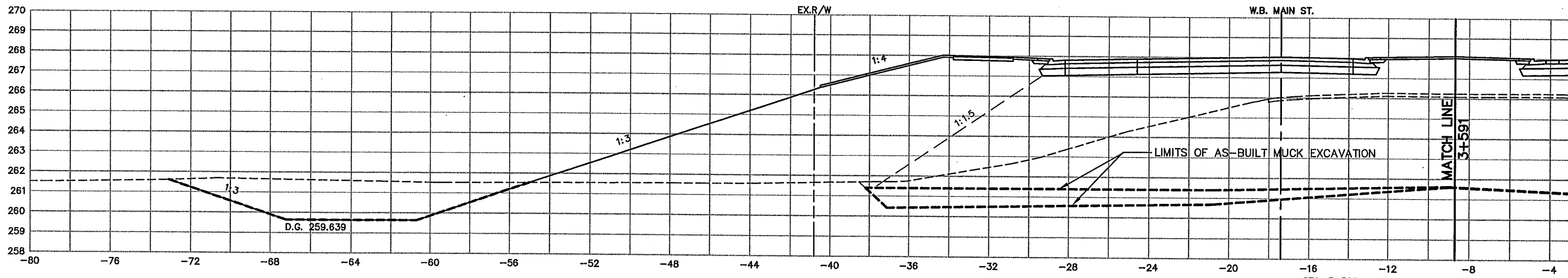
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

17 OF 42

SHEET NO. **452**

539

PLOT DATE: Aug 17 2000 3:46pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLANS-SHT\242exs18.dwg



LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
D.R.E.	DRAINAGE 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	IKR	8/17/00	ADDED CROSS SECTION STA. 3+580
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DESIGN BY: KPK
DRAWN BY: IKR	DWG. NAME: 242EXS18
CHKD. BY: KPK/PBD	DATE: NOVEMBER 5, 1999



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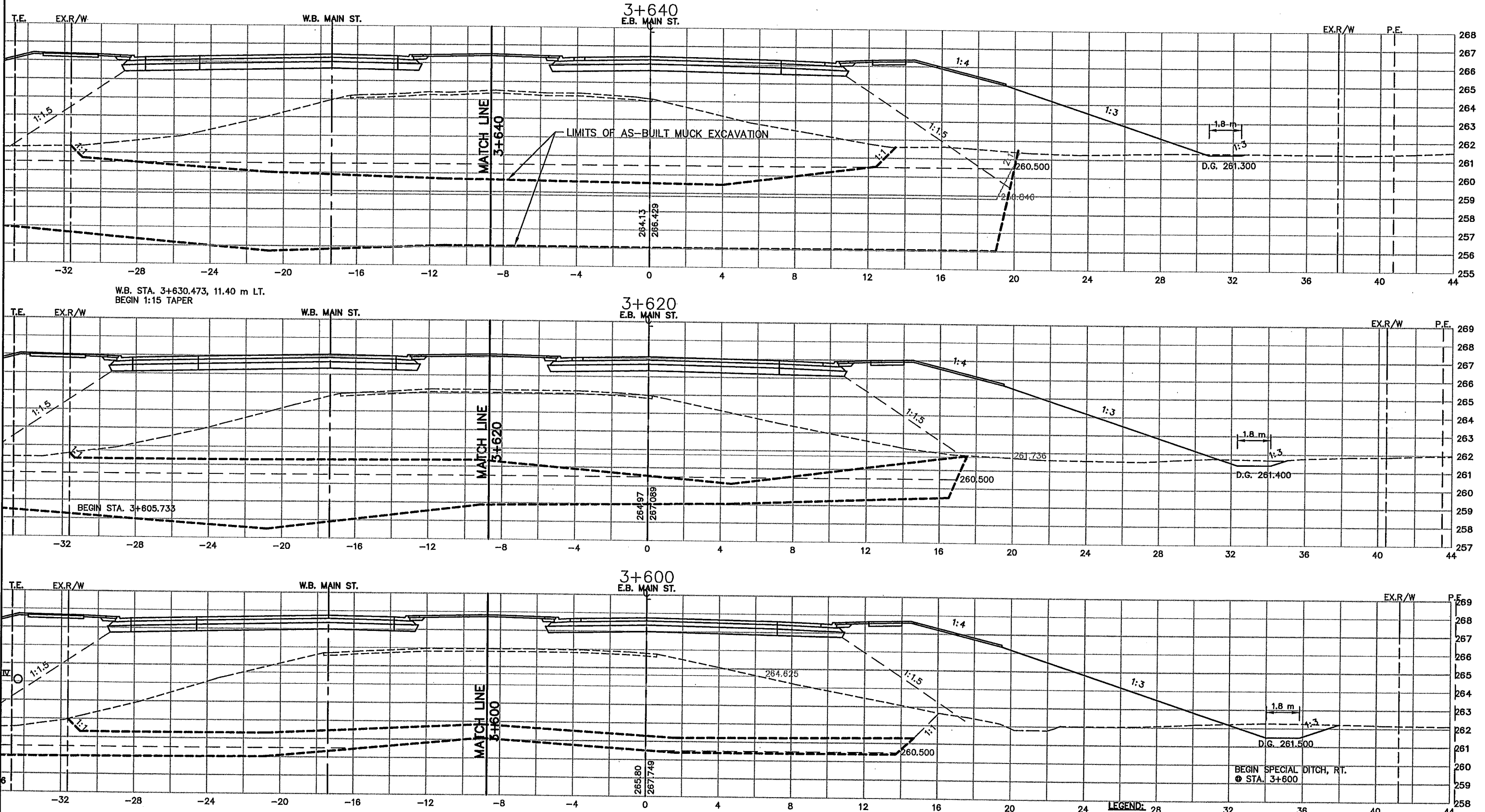
Kevin P. Kielbaso
DATE: 11/5/99 MINN. REG. NO. 23211

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

PLOT DATE: Aug 2000 3:48pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLAN-SHT\242exs19.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	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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS19
DATE: NOVEMBER 5, 1999	

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P. Kuelb

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 - 138 - 02
S.A.P.	114 - 127 - 02

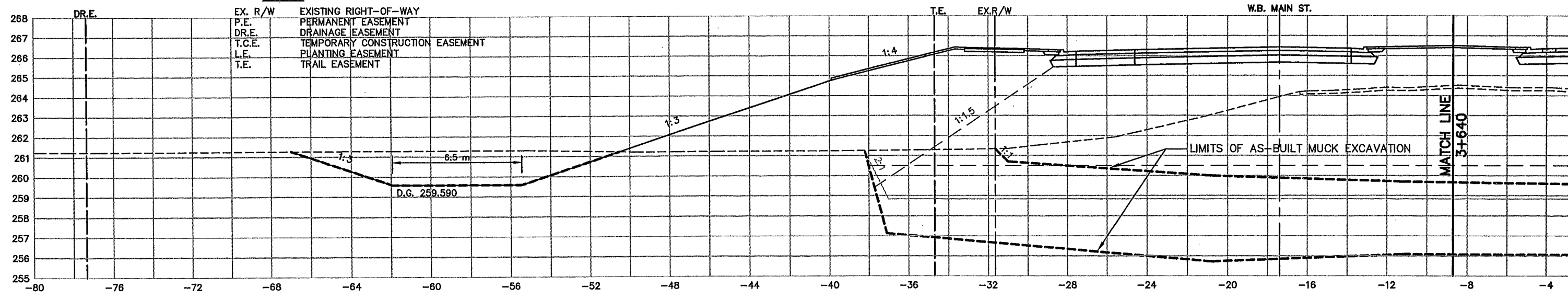
19 OF 42

SHEET NO.
454

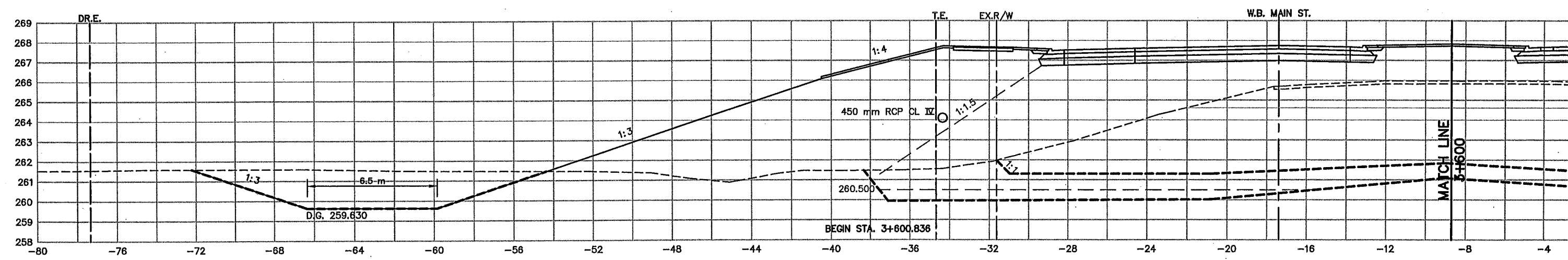
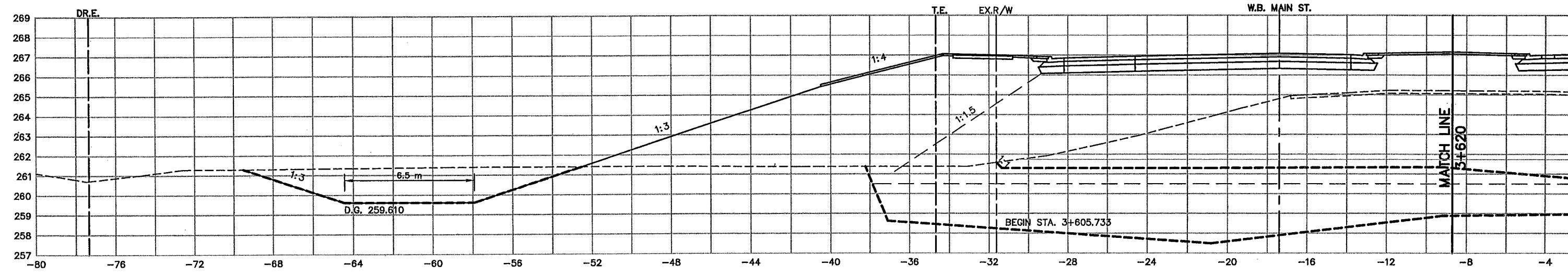
539

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



W.B. STA. 3+630.473, 11.40 m LT.
BEGIN 1:15 TAPER



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PLOT DATE: Aug 2000 3:5pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\YSEC\F001-SHT\242exs20.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS20
DATE: NOVEMBER 5, 1999	



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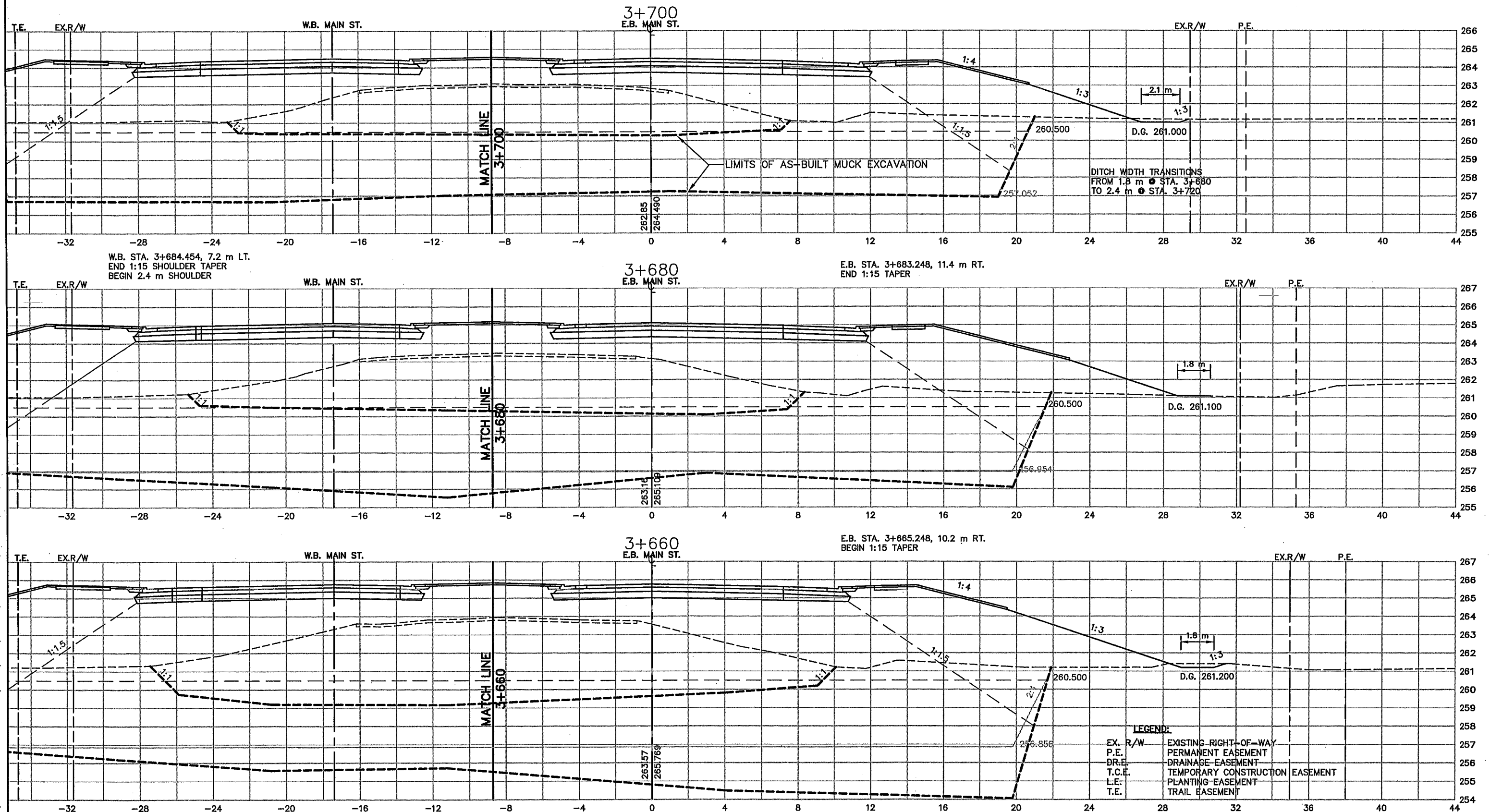
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16
Kevin P. Kuhl
DATE: 11/5/99, MINN. REG. NO. 23211

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

20 OF 42
SHEET NO.
455
539

PLOT DATE: Aug 2000 4:35pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\F...SHT\242exs21.dwg



W.B. STA. 3+684.454, 7.2 m LT.
END 1:15 SHOULDER TAPER
BEGIN 2.4 m SHOULDER

E.B. STA. 3+683.248, 11.4 m RT.
END 1:15 TAPER

W.B. STA. 3+648.463, 10.20 m LT.
BEGIN 1:15 SHOULDER TAPER
END 1:15 TAPER (CURB)

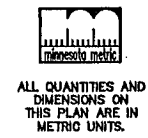
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

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	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	
DRAWN BY: IKR	DESIGN BY: KPK
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS21
DATE: NOVEMBER 5, 1999	



BRW
A DAMES & MOORE GROUP COMPANY

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Kevin P. Kullb

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

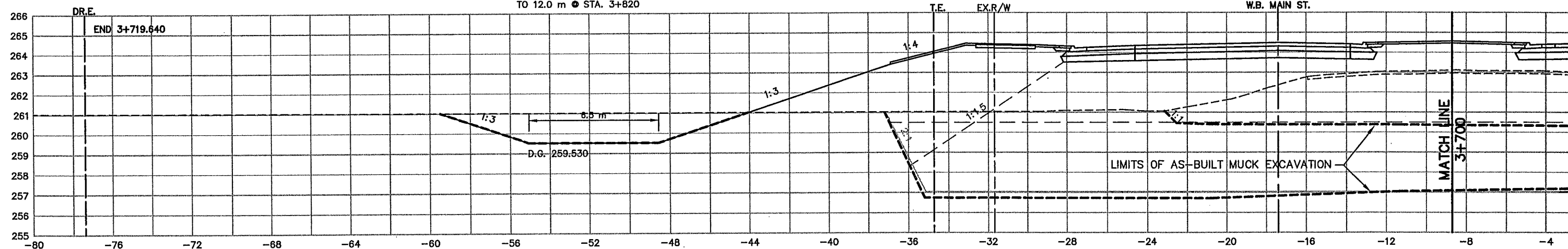
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

21 OF 42

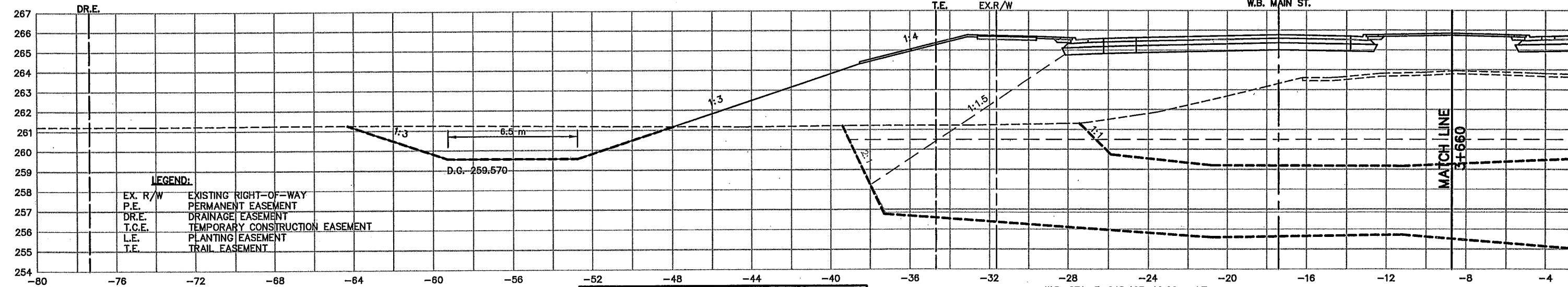
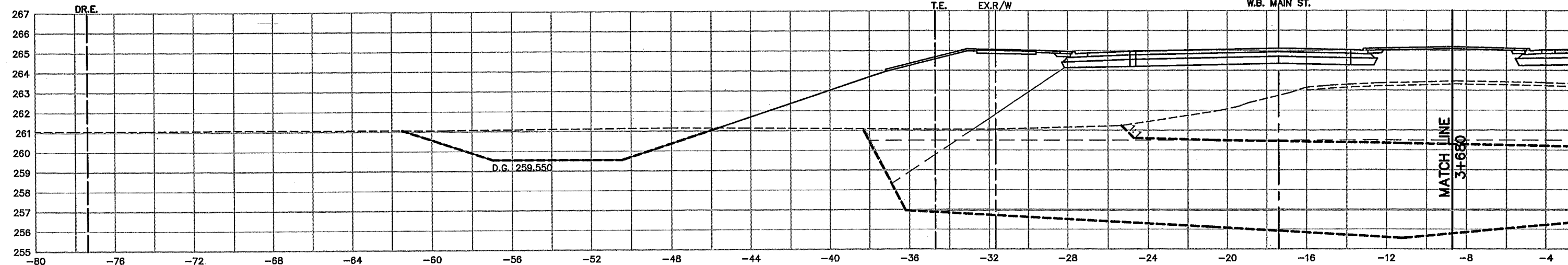
SHEET NO.
456

539

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

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W.B. STA. 3+648.463, 10.20 m LT.
BEGIN 1:15 SHOULDER TAPER
END 1:15 TAPER (CURB)

PLOT DATE: Aug 17, 2000 3:45pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\DRIN-SHT\242exs22.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	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
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS22	
DATE: NOVEMBER 5, 1999		



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700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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Kevin P. Kullb

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)

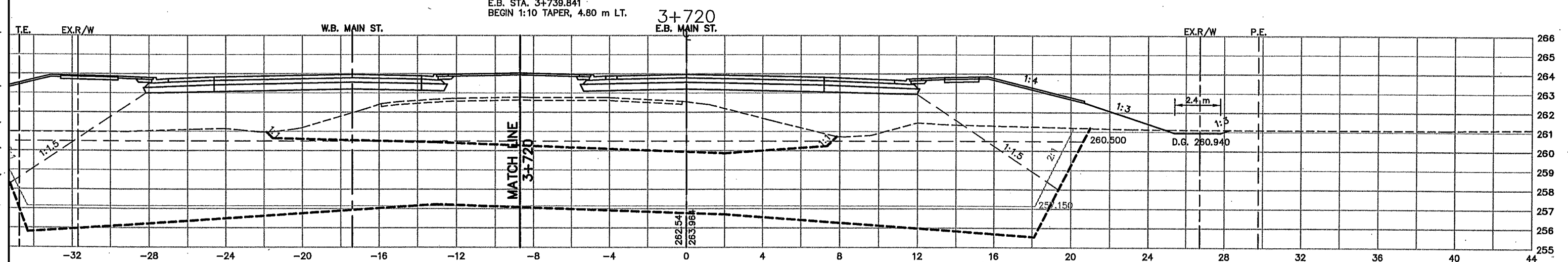
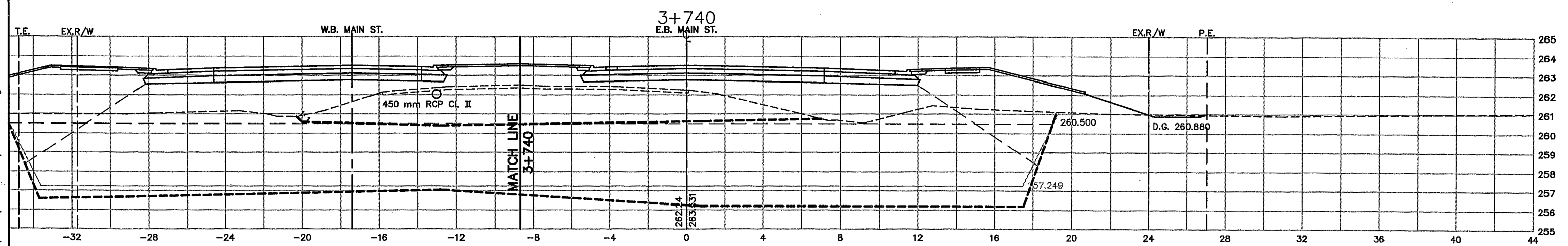
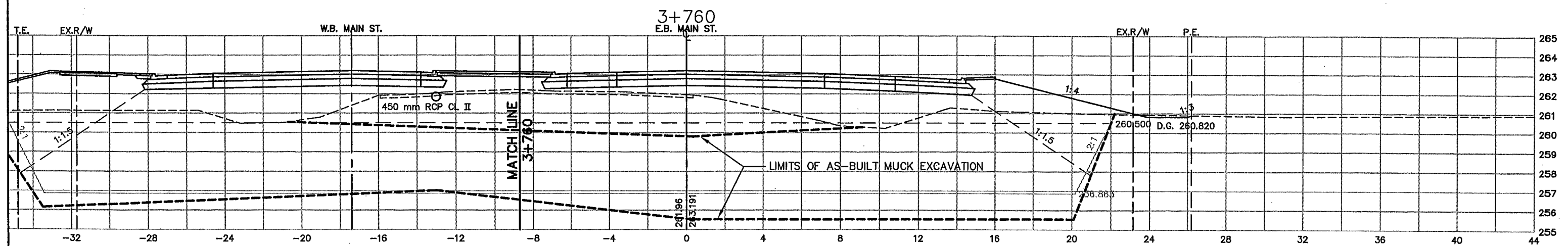
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

22 OF 42

SHEET NO.
457

539

DISK FILE NAME: (14-01) R:\33889\33889028\33889E\SEC\SHY\242exs23.dwg
PLOT DATE: Aug 2000 3:43pm



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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

CHKD. BY: KPK/PBD
DWG. NAME: 242EXS23

DATE:
NOVEMBER 5, 1999



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Kevin P. Kiehl

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

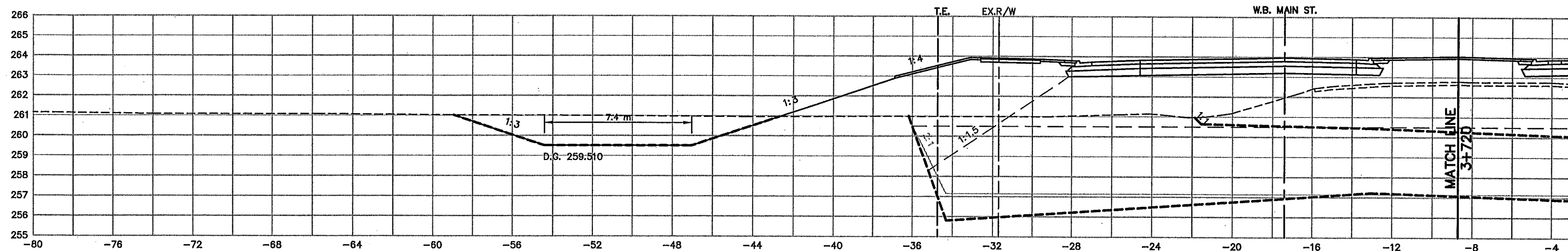
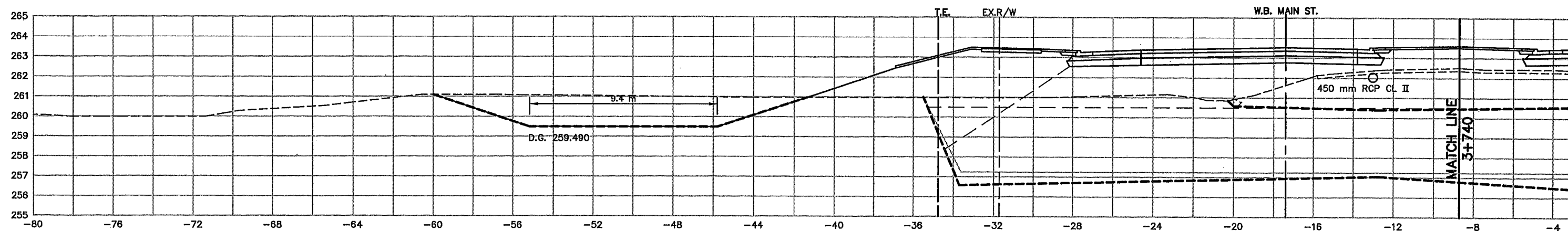
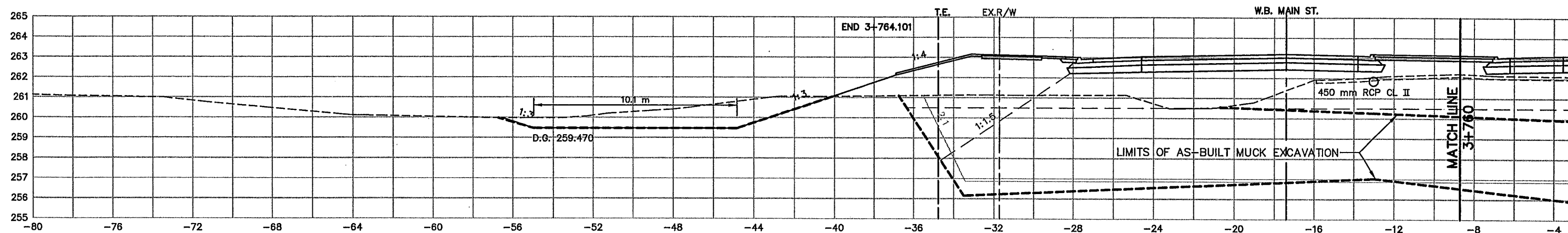
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

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SHEET NO.
458

539

PLOT DATE: Aug 2000 3:41pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PSHT\242exs24.dwg



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

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

DESIGN FILE: 33889028	DESIGN BY: KPK
DRAWN BY: IKR	DWG. NAME: 242EXS24
CHKD. BY: KPK/PBD	DATE: NOVEMBER 5, 1999



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Kevin P. Kullb

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

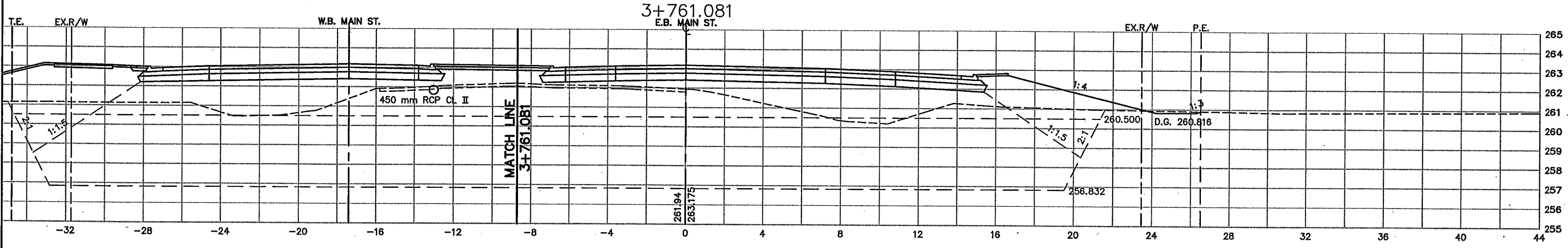
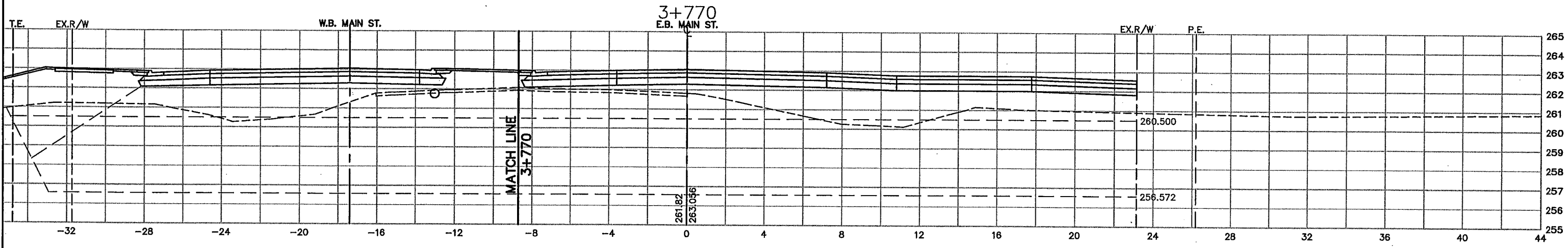
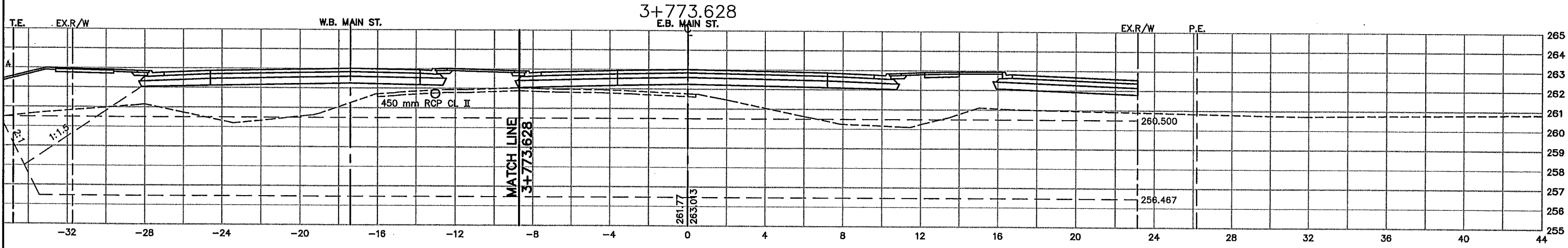
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+720.000 TO STATION 3+760.000

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 4: 33pm 2000 DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLAN-SHT\242exs25.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: JKR	DESIGN BY: KPK
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS25
DATE: NOVEMBER 5, 1999	


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Kevin P. Kullb

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

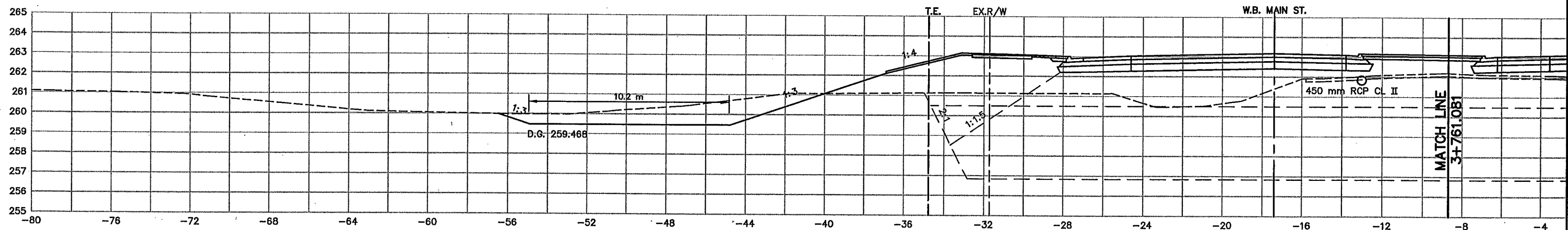
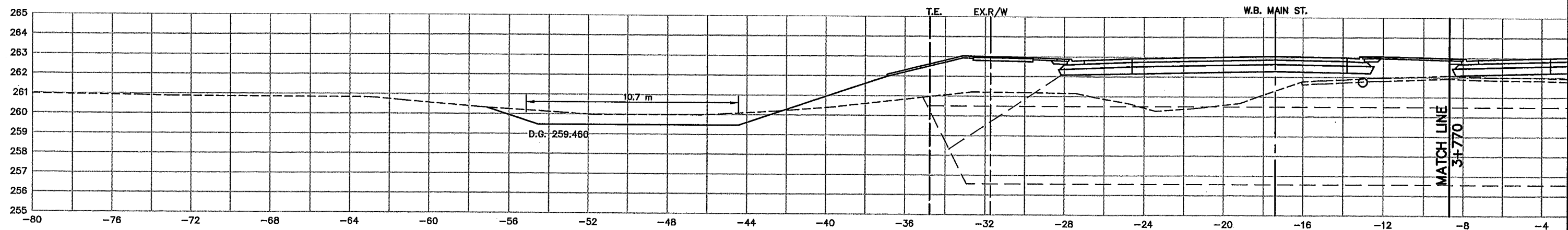
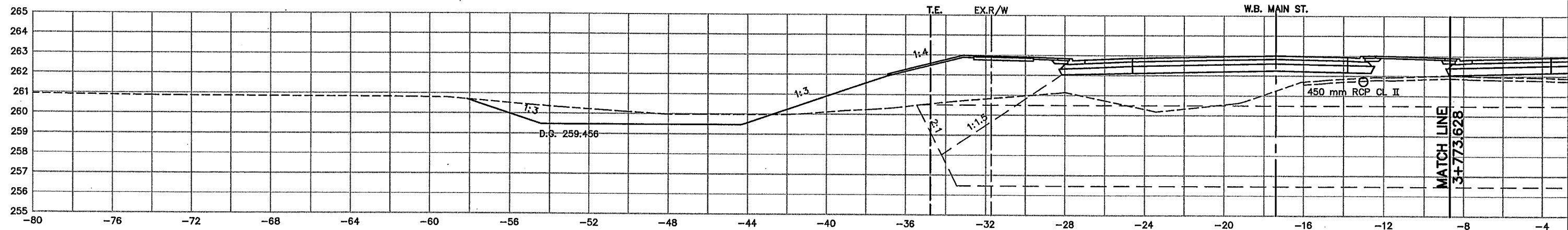
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

25 OF 42

SHEET NO.
460

539

PLOT DATE: Aug 17, 2000 4:34pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLAN-SHT\242exs26.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:
242EXS26
 DATE:
NOVEMBER 5, 1999

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

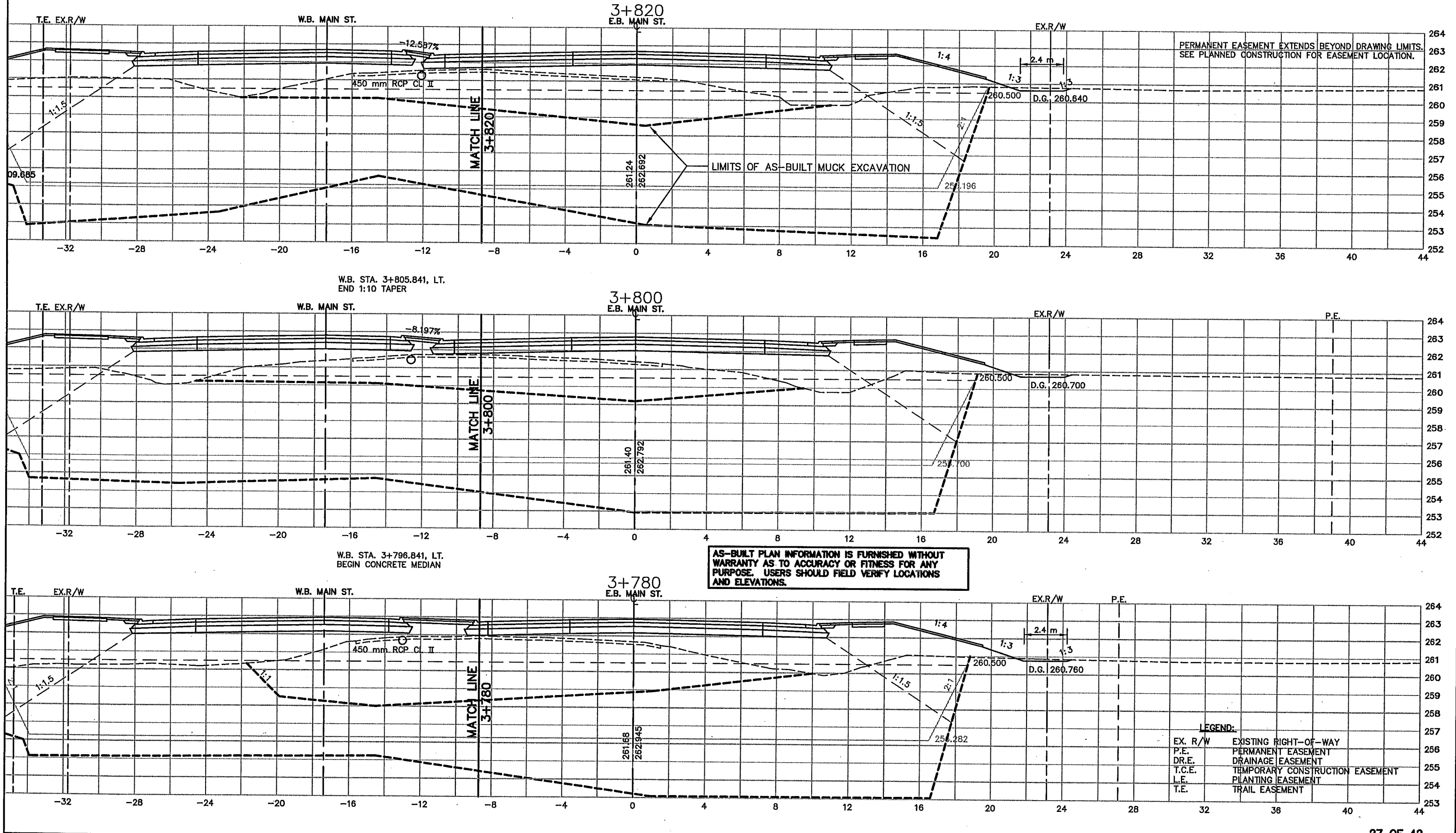
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Killb
 DATE: 11/5/99 MINN. REG. NO. 23211

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

26 OF 42
 SHEET NO.
461
539

PLOT DATE: Aug 2000 3:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\F-EX-W-SHT\242EXS27.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DESIGN BY: KPK
DRAWN BY: IKR	DWG. NAME: 242EXS27
CHKD. BY: KPK/PBD	DATE: NOVEMBER 5, 1999



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Kevin P. Kuhl

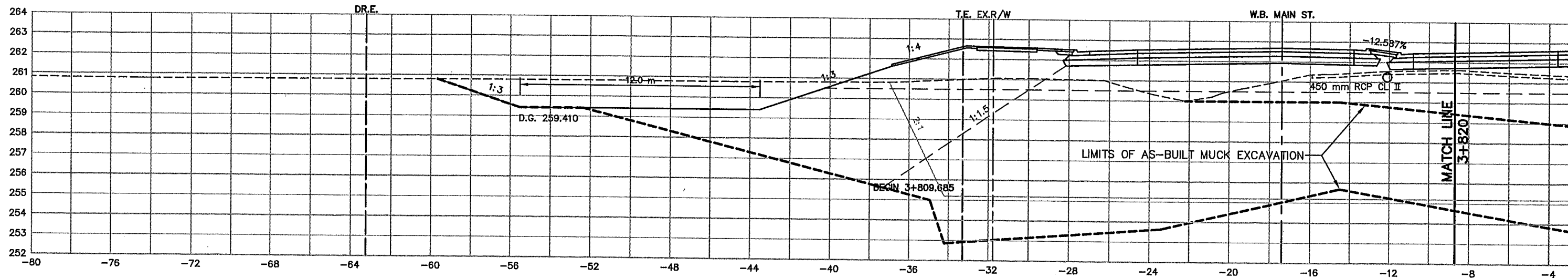
DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 3+780.000 TO STATION 3+820.000

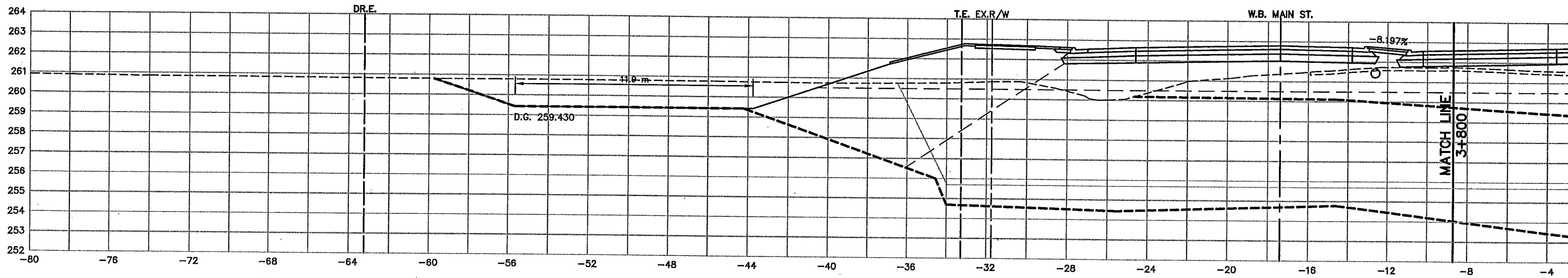
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	462
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	539

PLOT DATE: Aug 2000 4:36pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\F-mv-SHT\242exs28.dwg

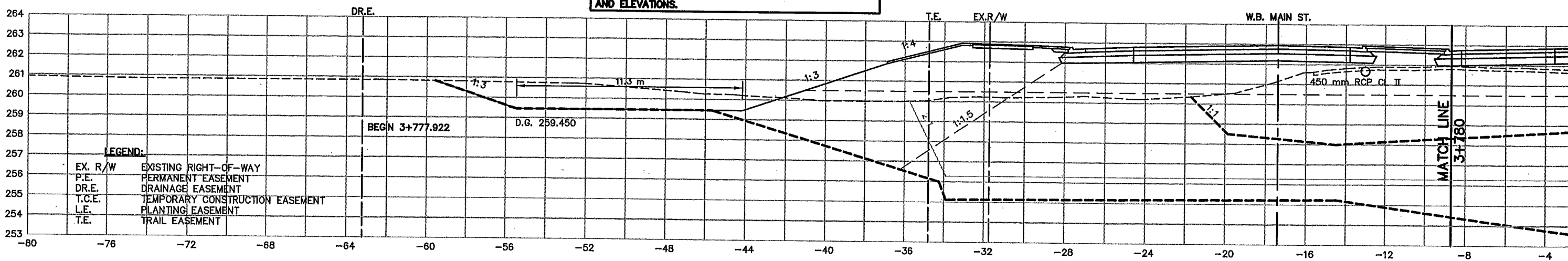


W.B. STA. 3+805.841, LT.
END 1:10 TAPER



W.B. STA. 3+796.841, LT.
BEGIN CONCRETE MEDIAN

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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	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028

DRAWN BY:
IKR

DESIGN BY:
KPK

CHKD. BY:
KPK/PBD

DWG. NAME:
242EXS28

DATE:
NOVEMBER 5, 1999



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. Kullb

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

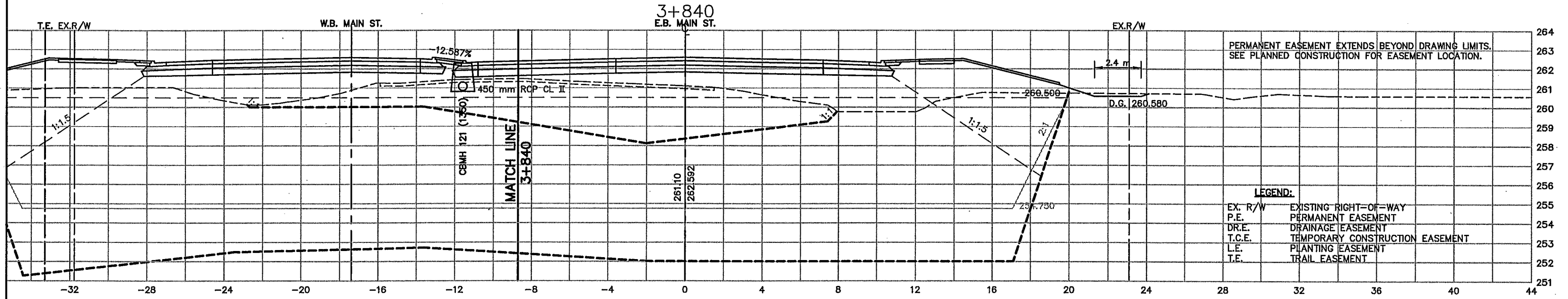
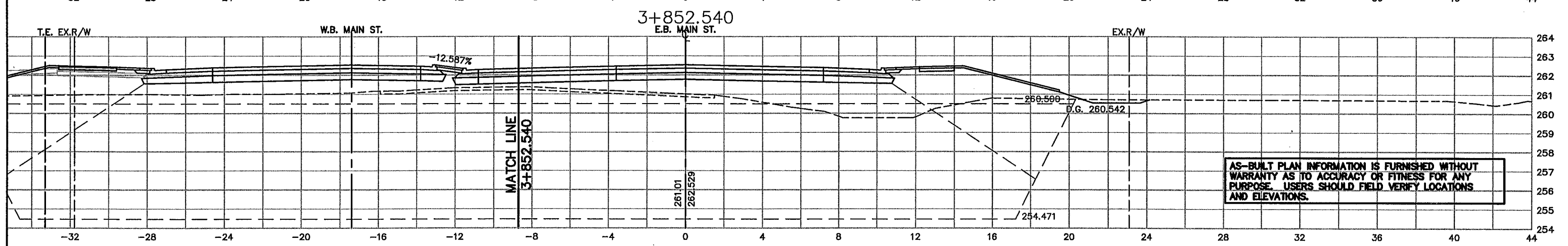
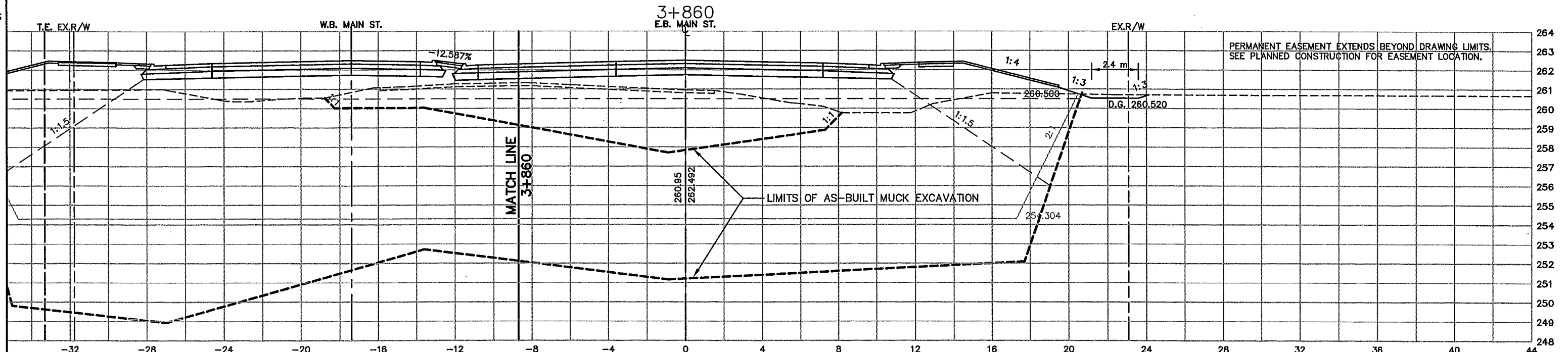
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

28 OF 42

SHEET NO.
463

539

PLOT DATE: Aug 17, 2000 4:04pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLD\SHY\242exs29.dwg



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
D.R.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	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DESIGN BY: KPK
DRAWN BY: IKR	DWG. NAME: 242EXS29
CHKD. BY: KPK/PBD	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. Kullb

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

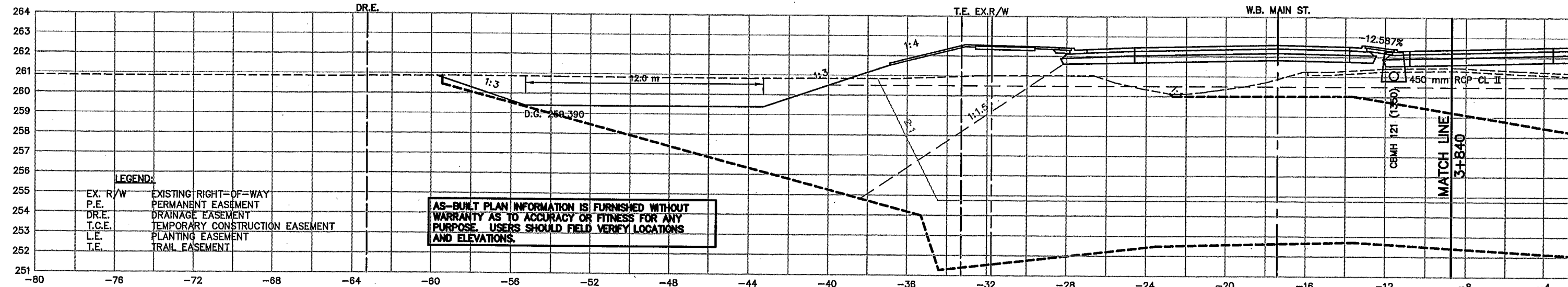
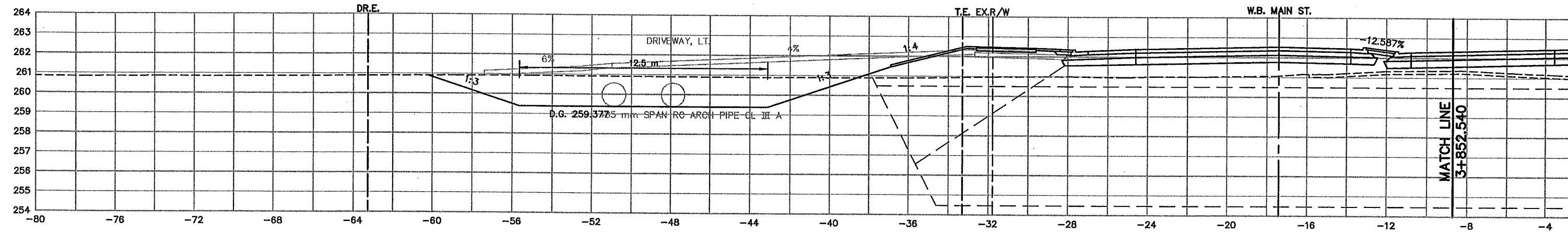
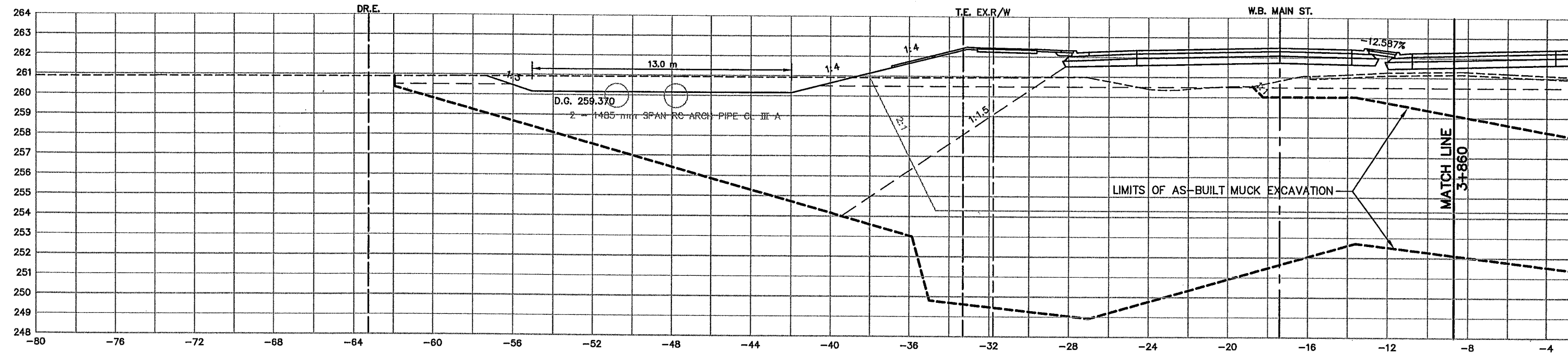
CITY PROJECT 98-20

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 17, 2000 4:08pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exs30.dwg



LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
D.R.E.	DRAINAGE 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	IKR	12/30/99	DELETED D/W 3+852.540, LT., DELETED CULVERTS
1	IKR	6/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: IKR	DESIGN BY: KPK
CHKD. BY: KPK/PBD	DWG. NAME: 242EXS30	
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)

A DAMES & MOORE GROUP COMPANY

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. Kiehl
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

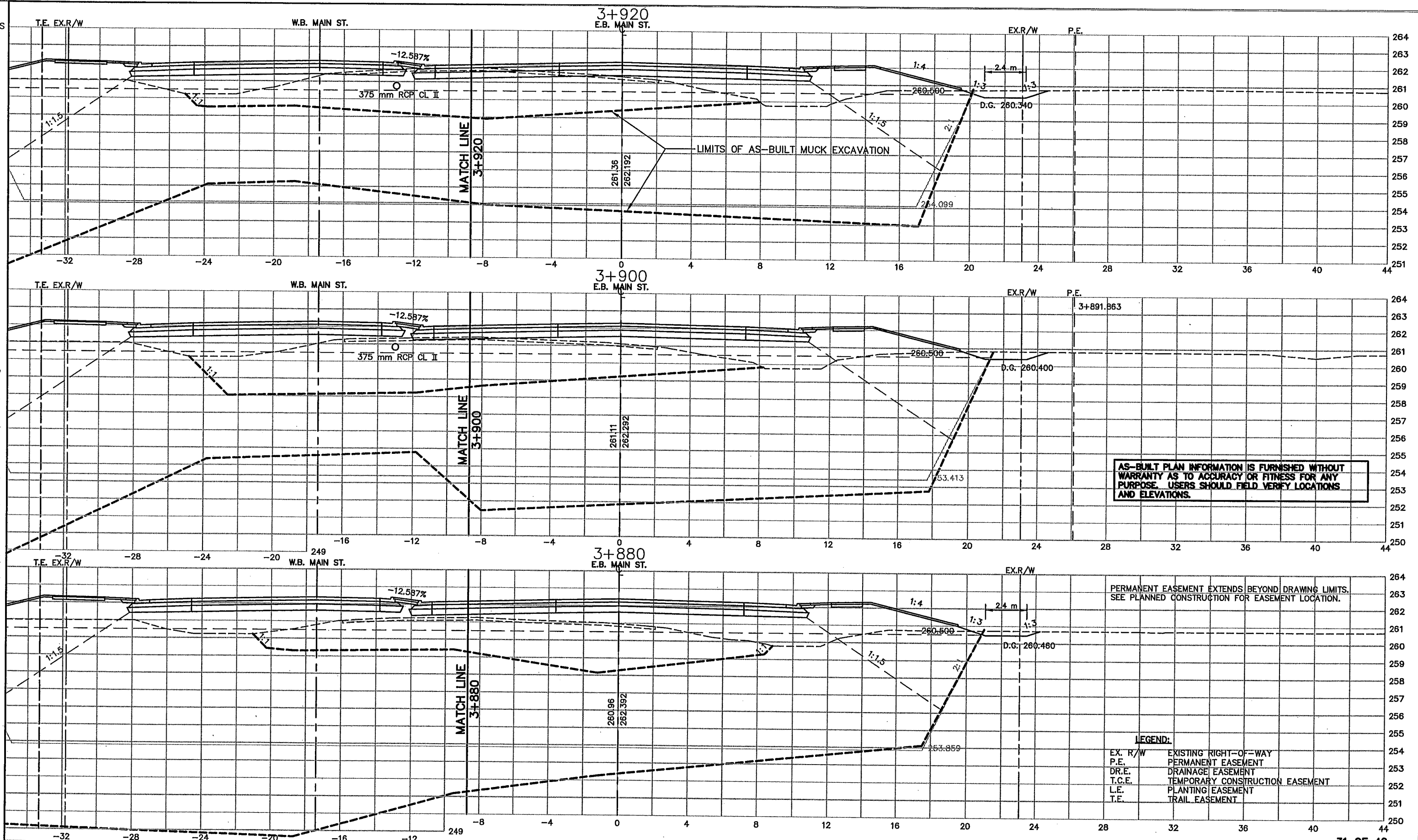
CITY PROJECT 98-20

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 2000 4:19pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\Drawn-SHT\242exs31.dwg



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PERMANENT EASEMENT EXTENDS BEYOND DRAWING LIMITS. SEE PLANNED CONSTRUCTION FOR EASEMENT LOCATION.

LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.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	8/17/00	MOVED SECTIONS ON PAGE
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028
 DRAWN BY:
IKR
 DESIGN BY:
KPK
 CHKD. BY:
KPK/PBD
 DWG. NAME:
242EXS31
 DATE:
NOVEMBER 5, 1999

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

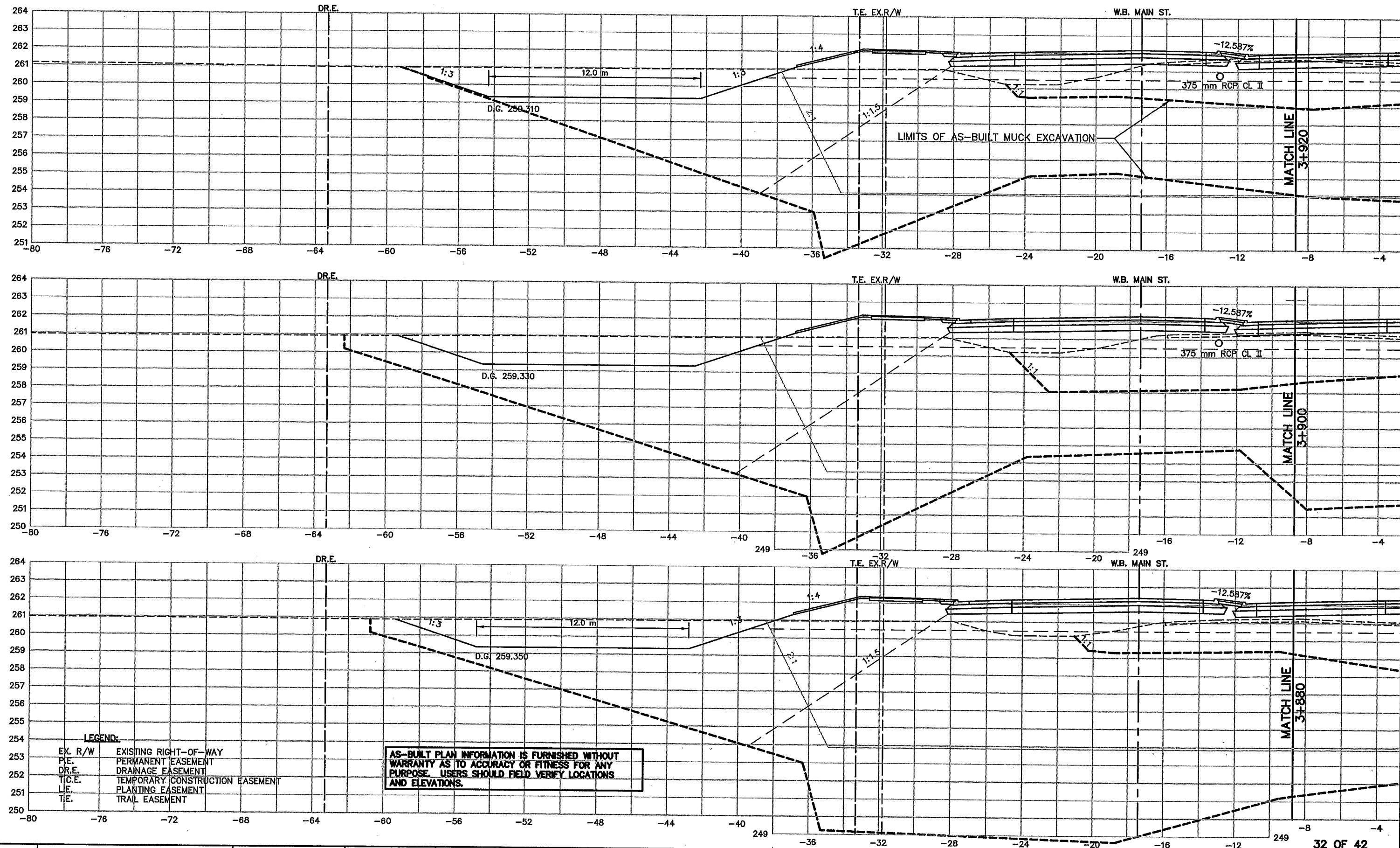
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Kevin P. Kullb
 DATE: 11/5/99 MINN. REG. NO. 23211

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

31 OF 42
 SHEET NO.
466
539

PLOT DATE: Aug 2000 4:23pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\Final-SHT\242exs32.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	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

CHKD. BY:
KPK/PBD

DWG. NAME:
242EXS32

DATE:
NOVEMBER 5, 1999



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Kevin P. Kullb

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

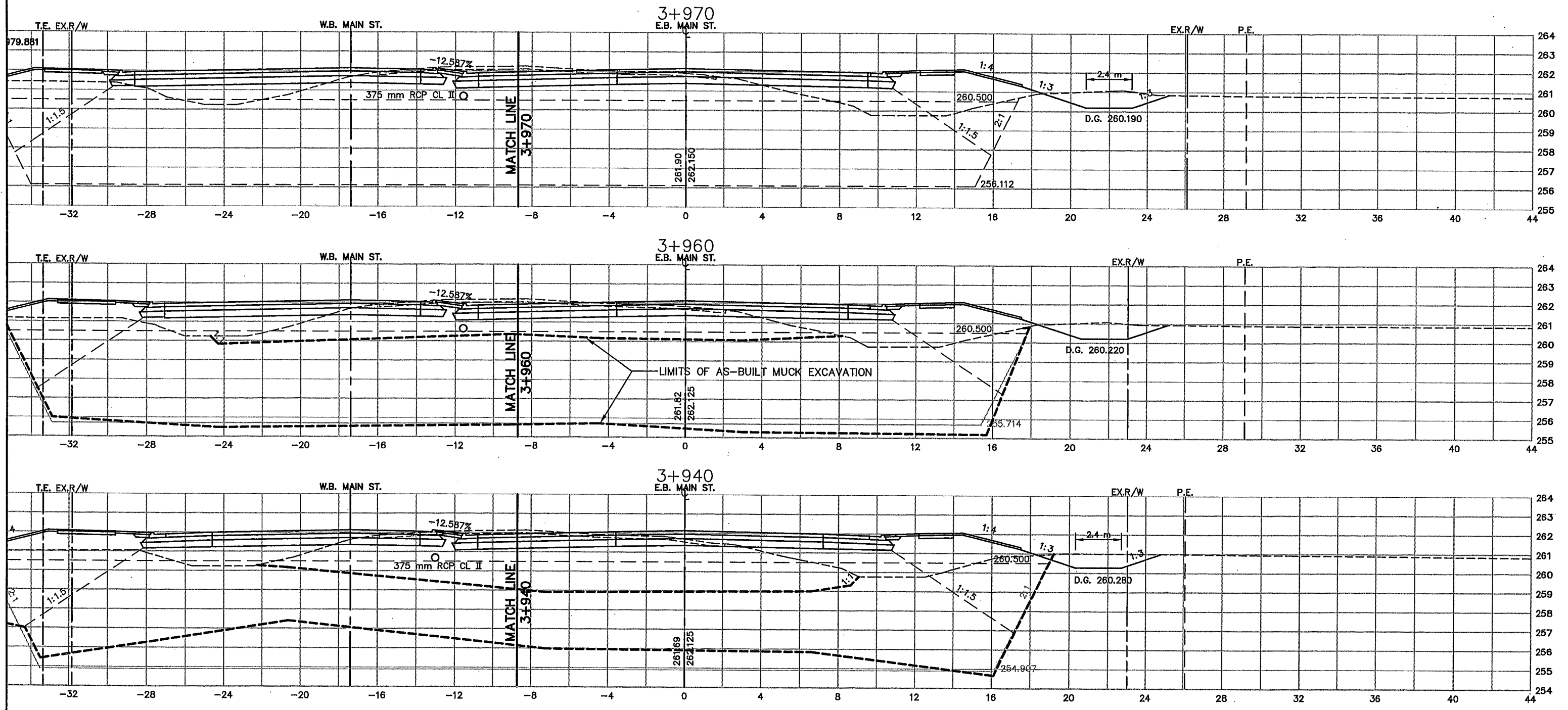
S.A.P. 114 - 136 - 02

S.A.P. 114 - 127 - 02

SHEET NO.
467

539

PLOT DATE: Aug 2000 4:39pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\T.H.242\242exs33.dwg



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LEGEND:

EX. R/W	EXISTING RIGHT-OF-WAY
P.E.	PERMANENT EASEMENT
D.R.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
CHKD. BY:
KPK/PBD
DWG. NAME:
242EXS33
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)

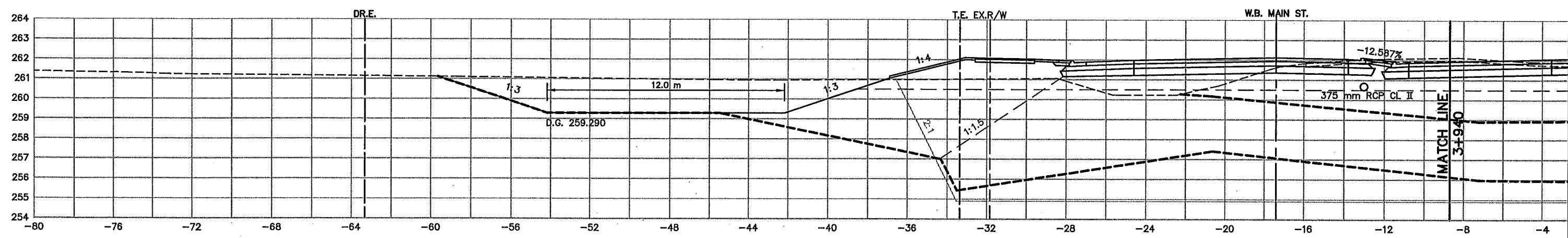
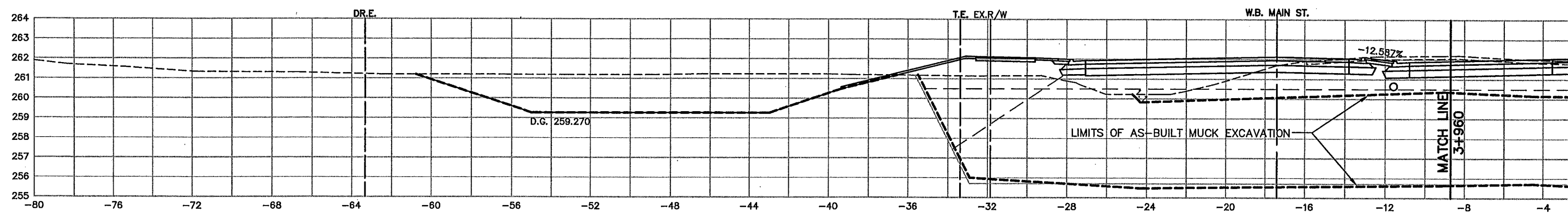
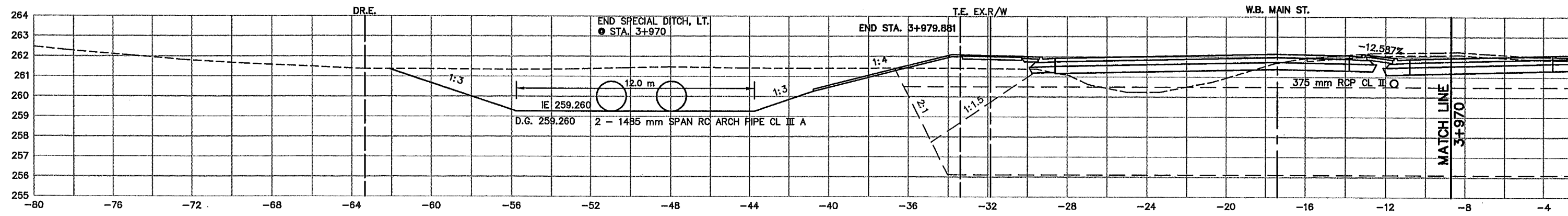
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DATE: 11/5/99 MINN. REG. NO. 23211

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

33 OF 42
SHEET NO.
468
539

PLOT DATE: Aug 2000 4:42pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\T.H.242\242exs34.dwg



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 - 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

CHKD. BY:
KPK/PBD

DWG. NAME:
242EXS34

DATE:
NOVEMBER 5, 1999

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MINNEAPOLIS, MN 55415
(612)370-0700 (TEL.)
(612)370-1378 (FAX)

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Kevin P. Kullb

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

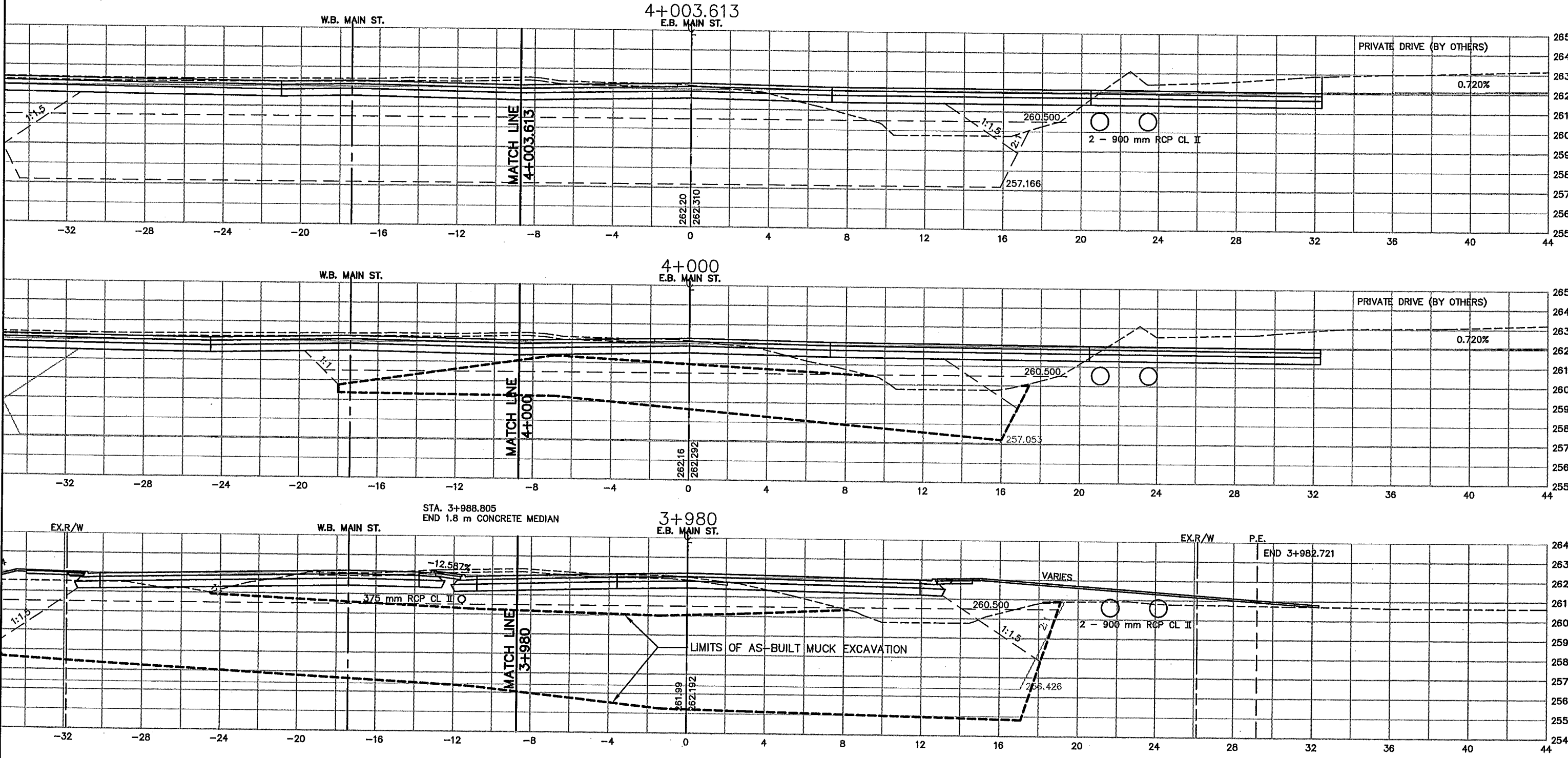
S.P.	T.H. 242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

34 OF 42

SHEET NO.
469

539

PLOT DATE: Aug 2000 4:48pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PE\T\242exs35.dwg





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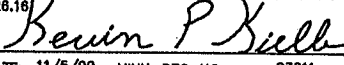
LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

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

DESIGN FILE:
33889028
 DRAWN BY:
IKR
 DESIGN BY:
KPK
 CHKD. BY:
KPK/PBD
 DWG. NAME:
242EXS35
 DATE:
NOVEMBER 5, 1999


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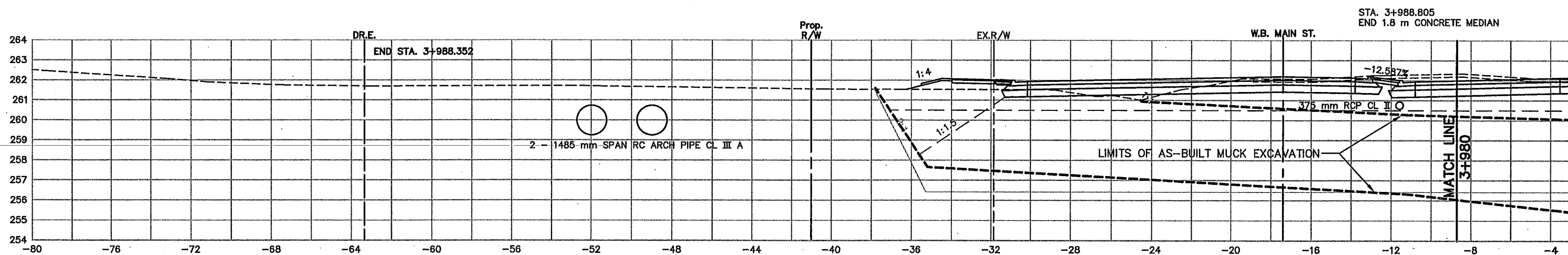
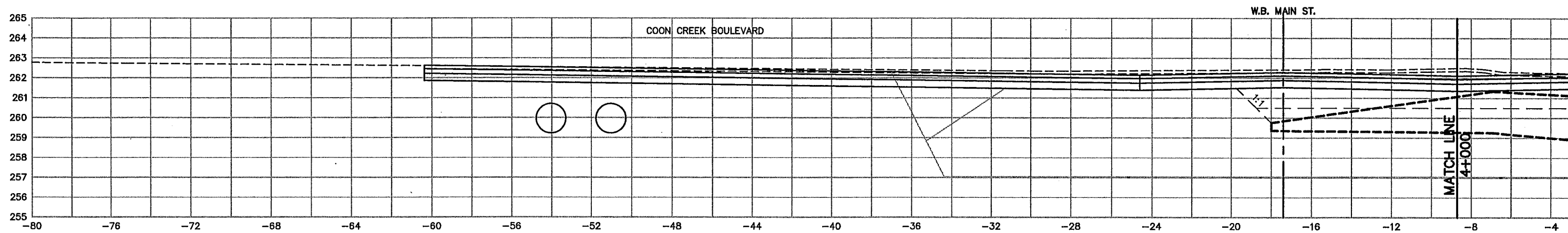
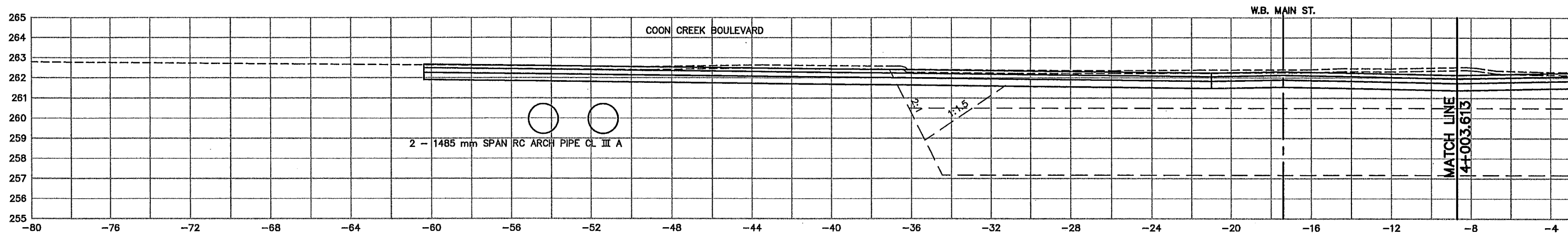
 **BRW**
 A DAMES & MOORE GROUP COMPANY
 THRESHER SQUARE
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
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 DATE: 11/5/99 MINN. REG. NO. 23211

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

35 OF 42
 SHEET NO.
470
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

CHKD. BY:
KPK/PBD

DWG. NAME:
242EXS36

DATE:
NOVEMBER 5, 1999



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Kevin P. Kullb

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

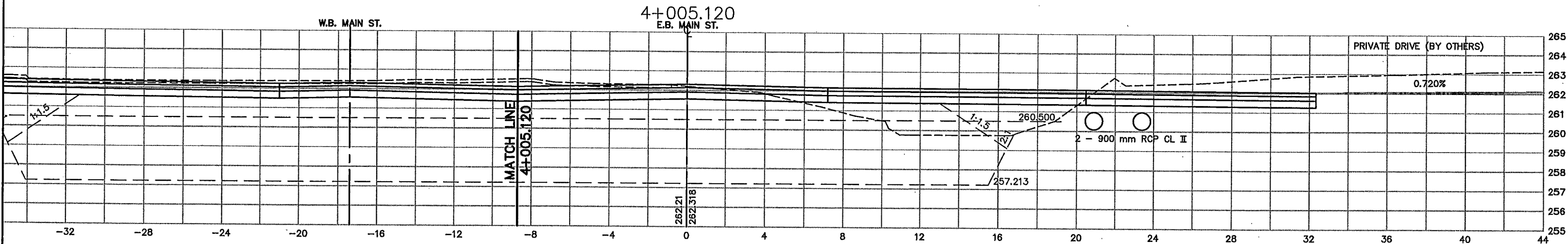
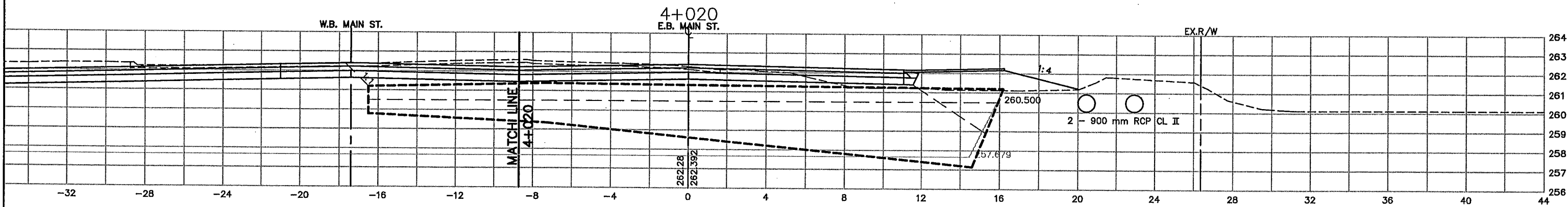
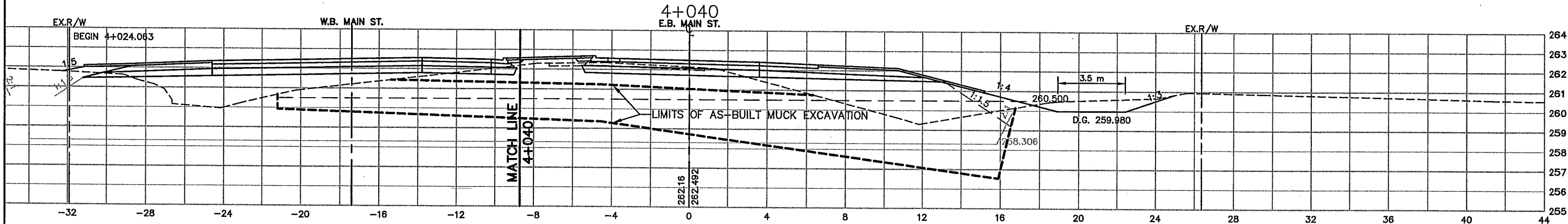
36 OF 42

SHEET NO.
471

539

PLOT DATE: Aug 17, 2000 4:52pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SEC\PLAN-SHT\242exs37.dwg

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:
JKR
DESIGN BY:
KPK
CHKD. BY:
KPK/PBD
DWG. NAME:
242EXS37
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)

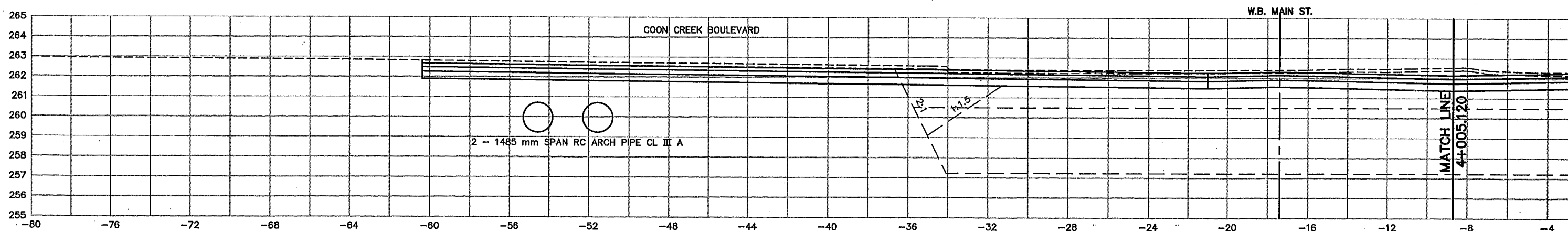
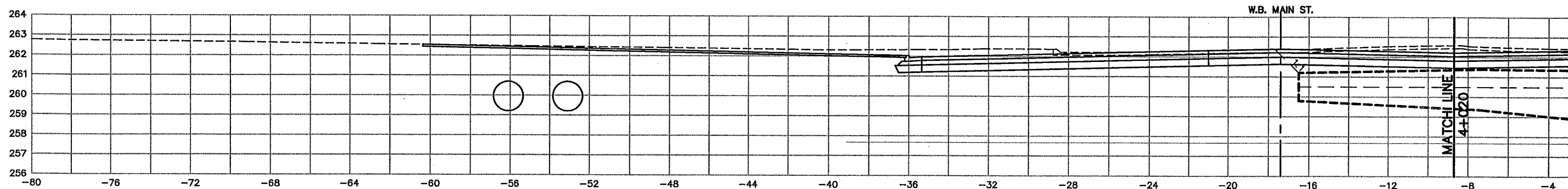
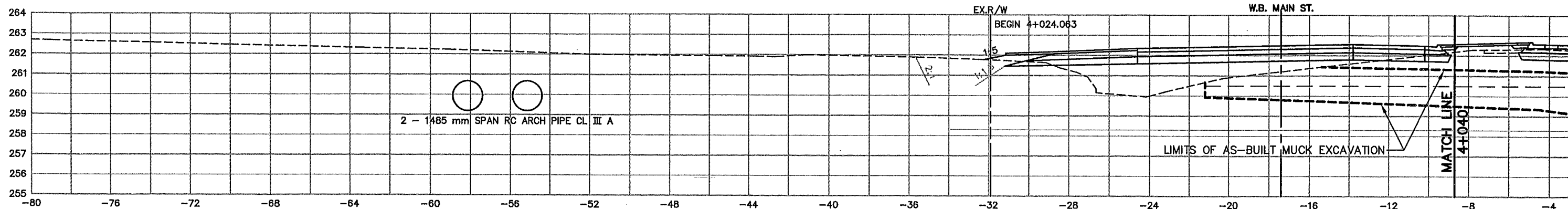
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.18
Kevin P. Kullb
DATE: 11/5/99 MINN. REG. NO. 23211

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

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

PLOT DATE: Aug 17, 2000 4:53pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PCAN-SHT\242exs38.dwg

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/PBD	DWG. NAME: 242EXS38
DATE: NOVEMBER 5, 1999	



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. Kiehl

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	

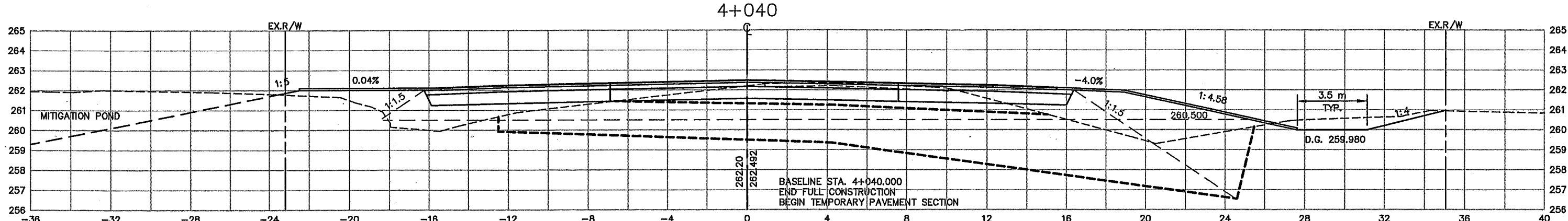
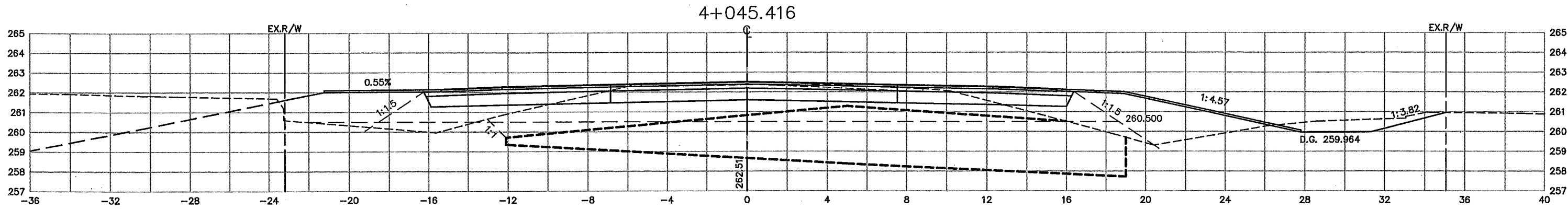
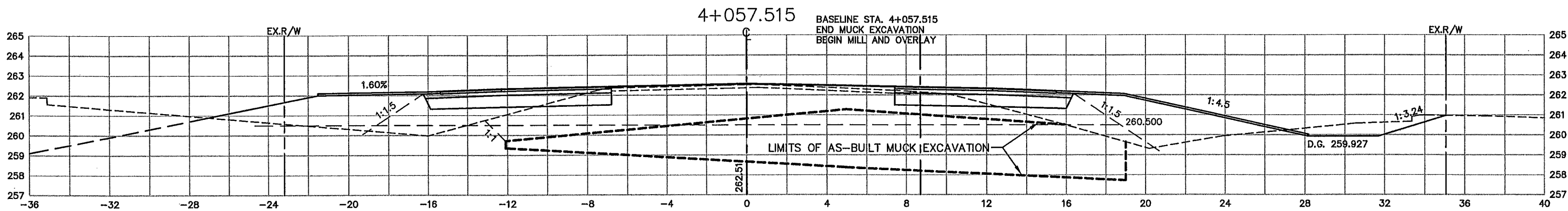
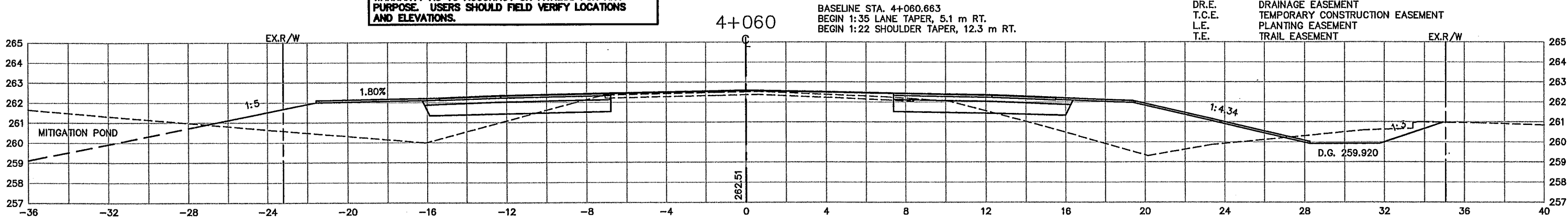
SHEET NO.
473

539

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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



PLOT DATE: Aug 17, 2000 5:09pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\Draw-SHT\242exs39.dwg

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

DESIGN FILE: 33889028	DESIGN BY: KPK
DRAWN BY: IKR	DWG. NAME: 242EXS39
CHKD. BY: KPK/PBD	DATE: NOVEMBER 5, 1999



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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 328.02 TO 328.16

Kevin P. Kiehl

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

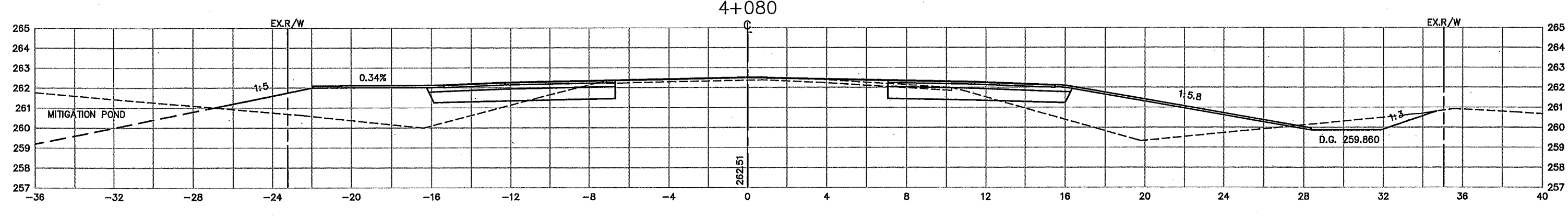
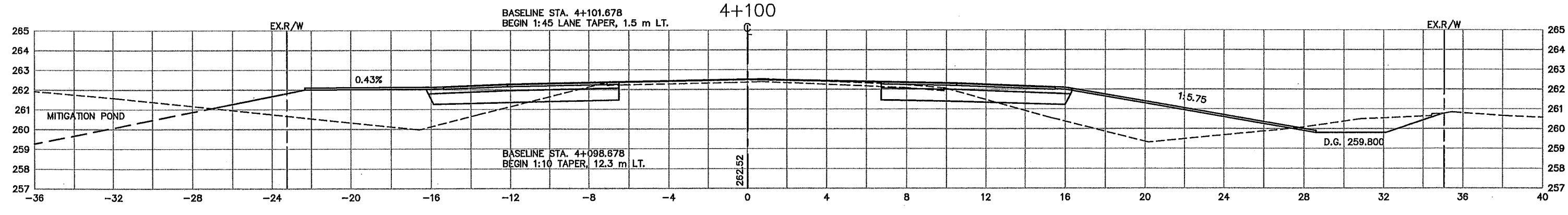
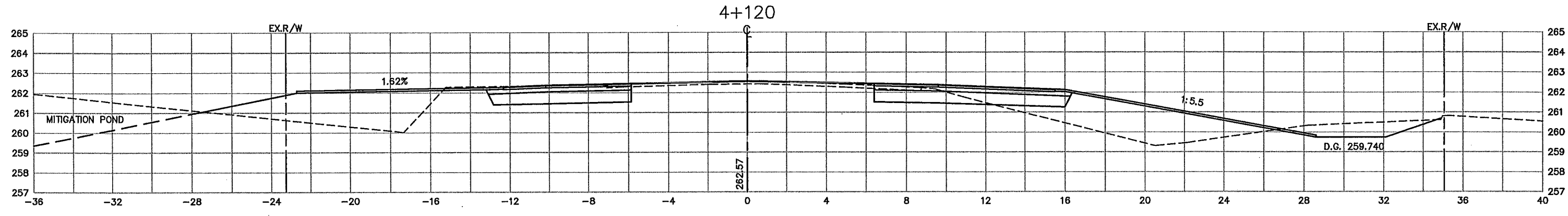
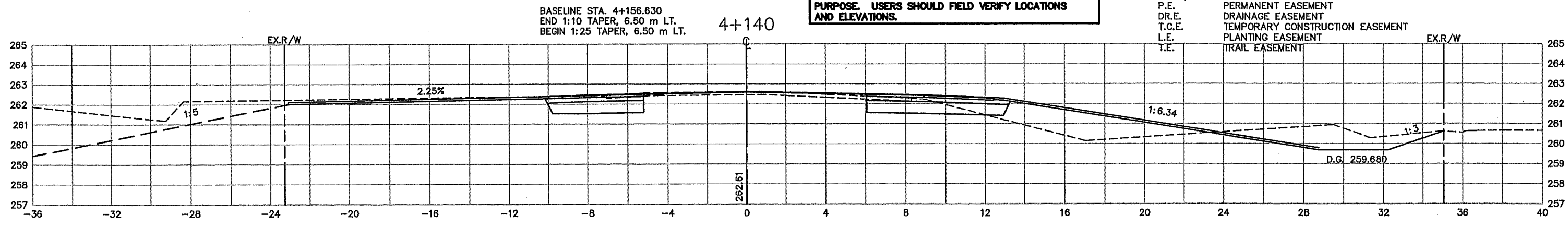
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET (T.H. 242)
CROSS SECTIONS
STATION 4+040.000 TO STATION 4+060.000
CITY PROJECT 98-20

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

39 OF 42
SHEET NO.
474
539

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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.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
CHECKED BY: KPK/PBD	DWG. NAME: 242EXS40
DATE: NOVEMBER 5, 1999	

THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

BRW
A DAMES & MOORE GROUP COMPANY

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Kevin P. Kiehl
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

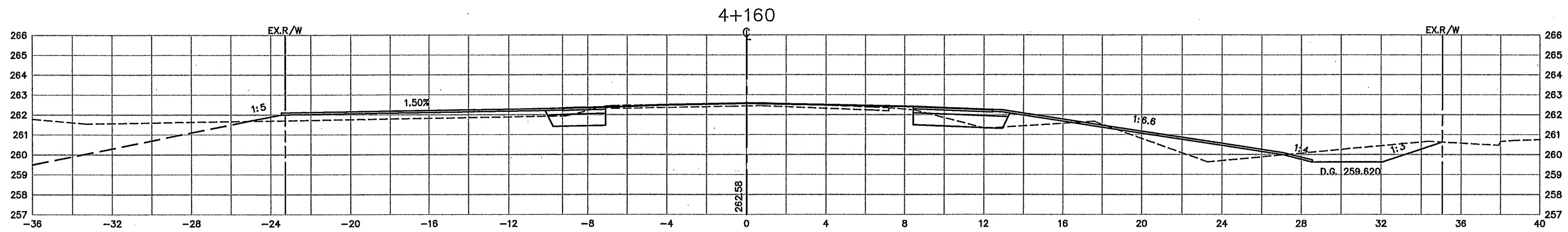
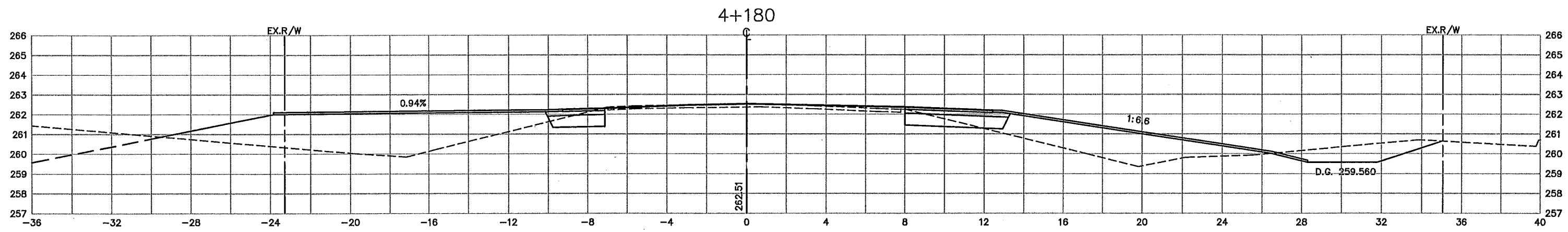
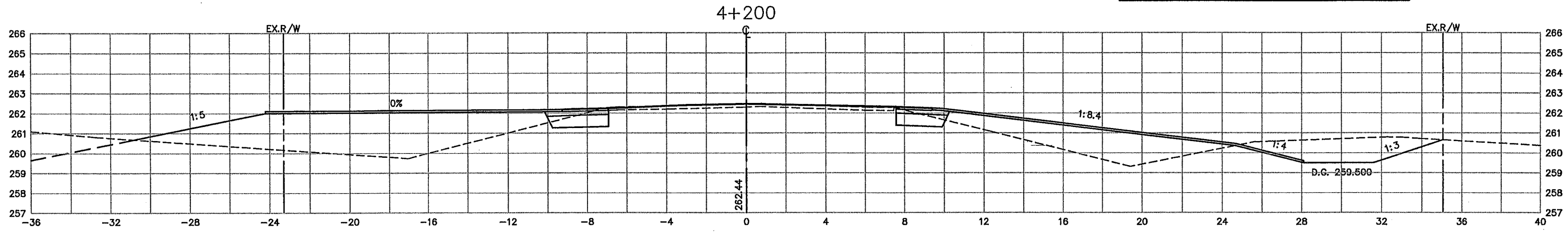
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
475
539

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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PLOT DATE: Jul 10, 2000 5:35pm DISK FILE NAME: (14.01h (Hardware Look)) R:\33889\33889028\33889E\XSEC\PLAN-SHT\242exe41.dwg



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/PBD	DWG. NAME: 242EXS41	
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 4+160.000 TO STATION 4+200.000

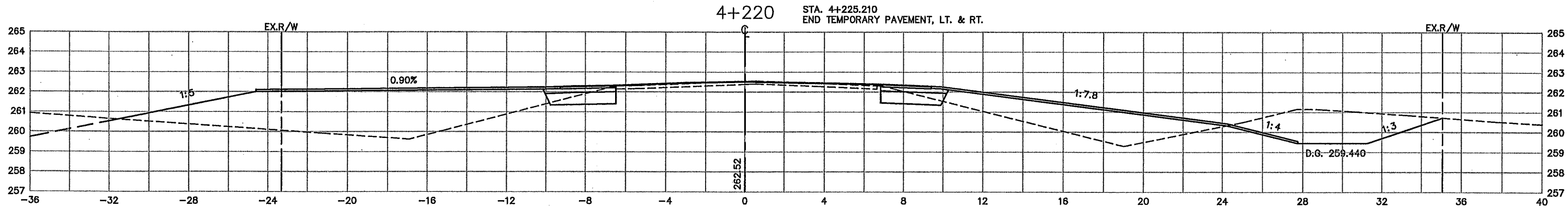
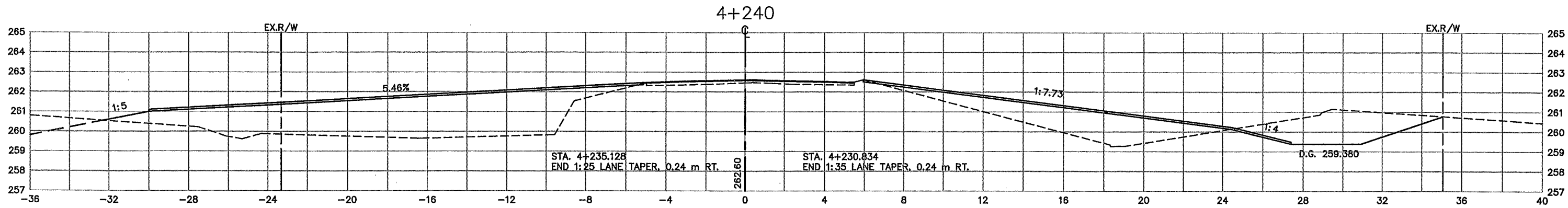
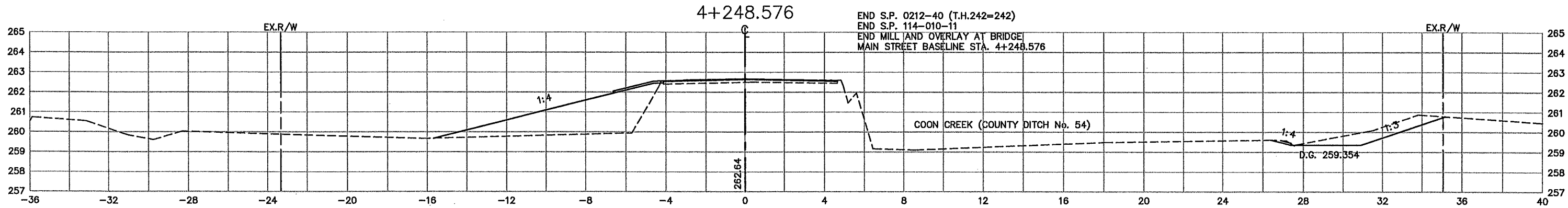
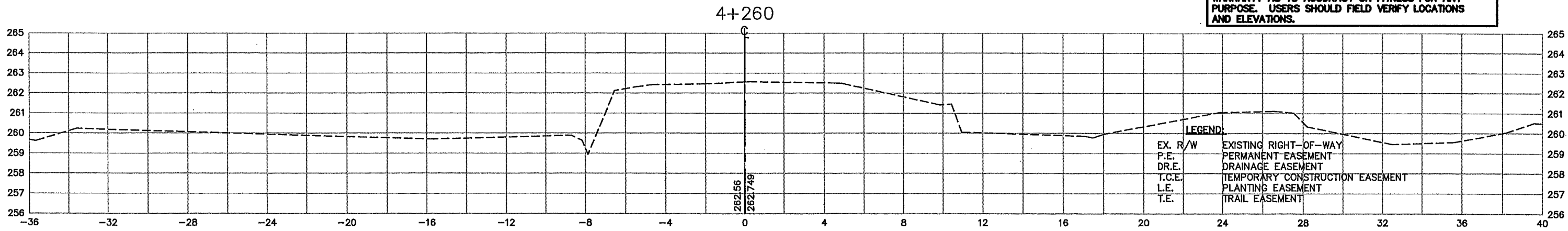
CITY PROJECT 98-20

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

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PLOT DATE: Jul 10, 2000 5:36pm DISK FILE NAME: (14.01n (Hardware Lock)) R:\33889\33889028\33889E\SEC\PLAN-SHT\242exs42.dwg

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/PBD	DWG. NAME: 242EXS42	
DATE: NOVEMBER 5, 1999		

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

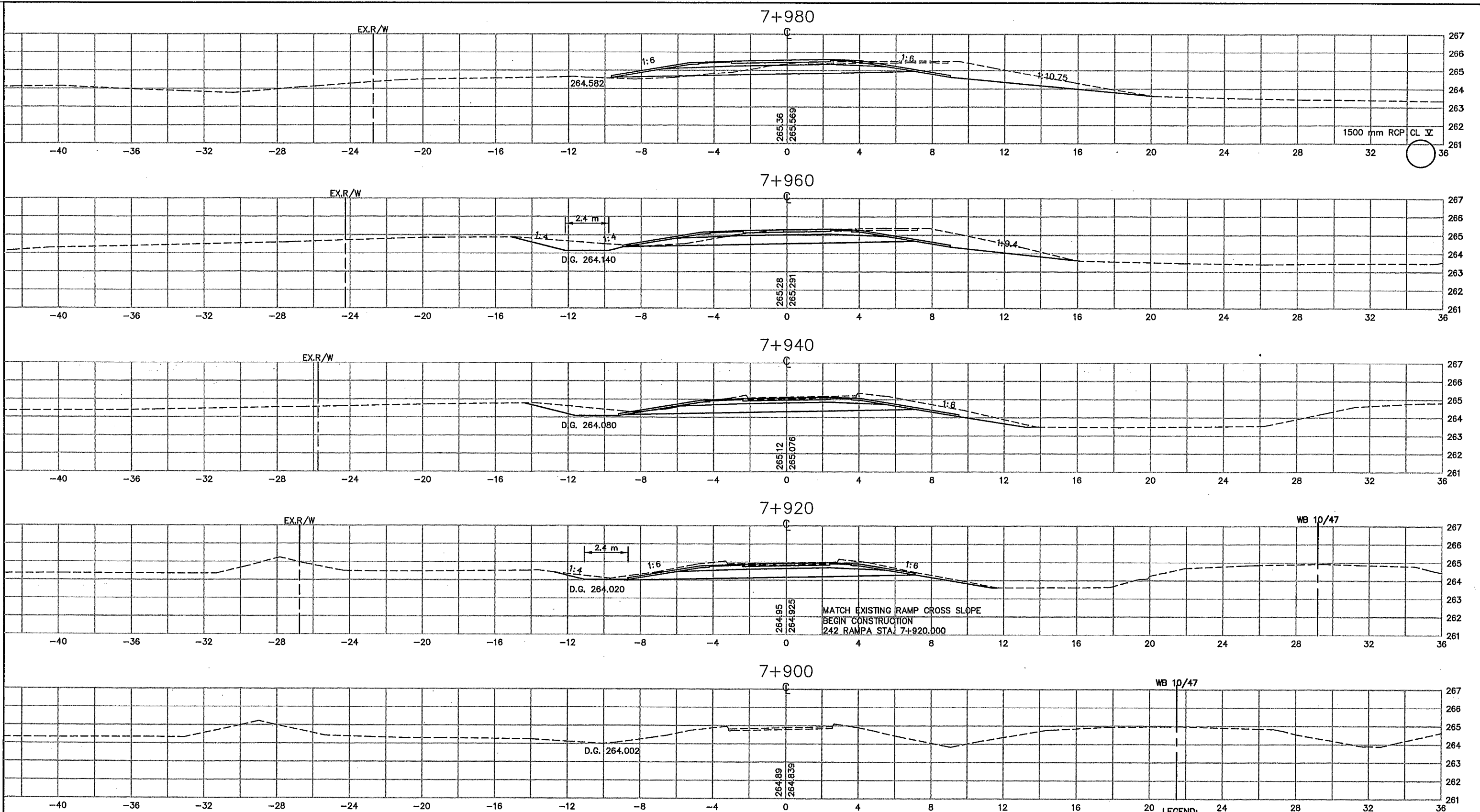


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Kevin P. Kullb
DATE: 11/5/99 MINN. REG. NO. 23211

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	

42 OF 42
SHEET NO.
477
539

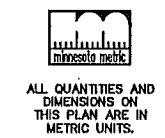


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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 DR.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

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

DESIGN FILE: 33889028	DRAWN BY: IKR	DESIGN BY: KPK
CHKD. BY: KPK/PBD	DWG. NAME: A-XS01	DATE: NOVEMBER 5, 1999

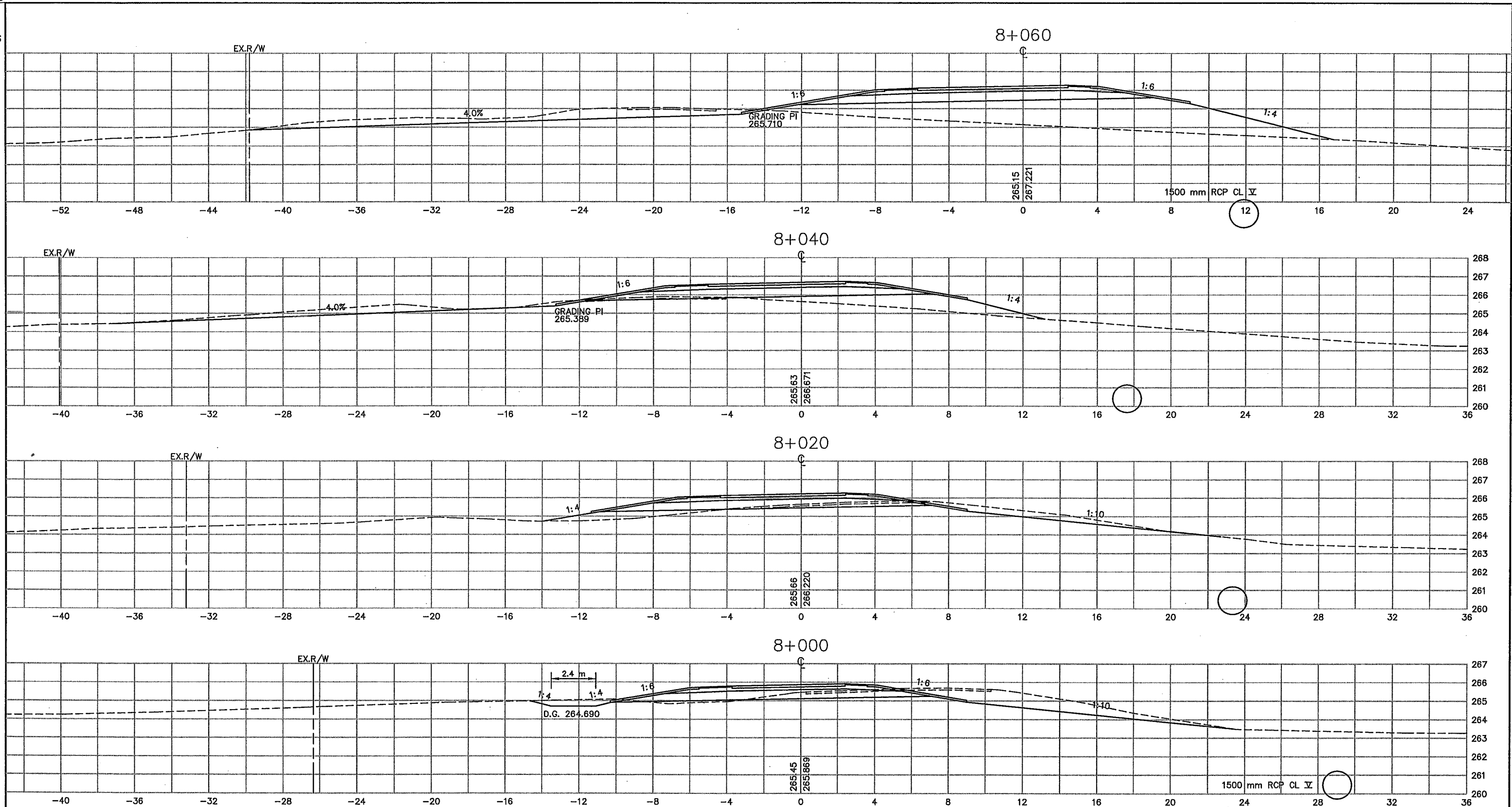


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Kevin P. Kiehl
 DATE: 11/9/99 MINN. REG. NO. 23211

**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



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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.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



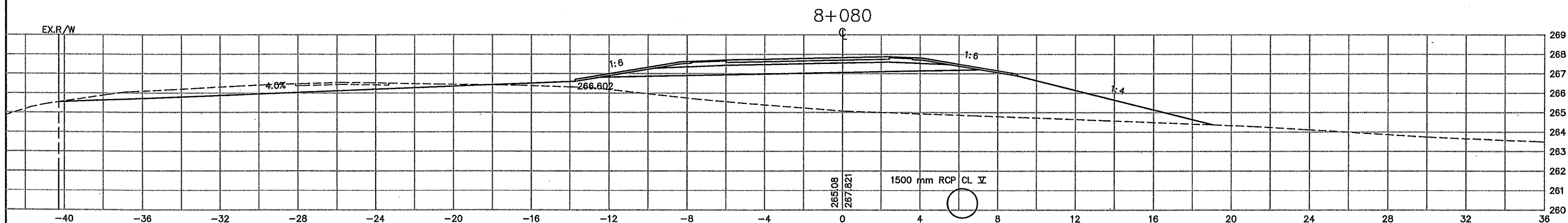
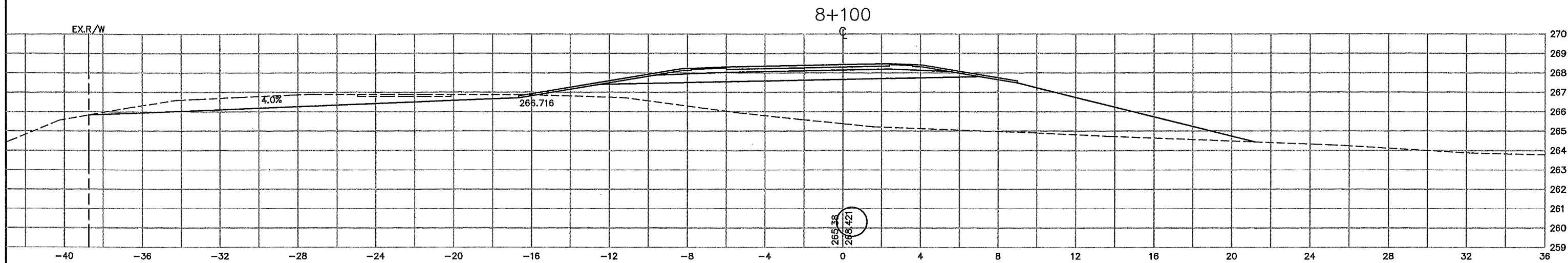
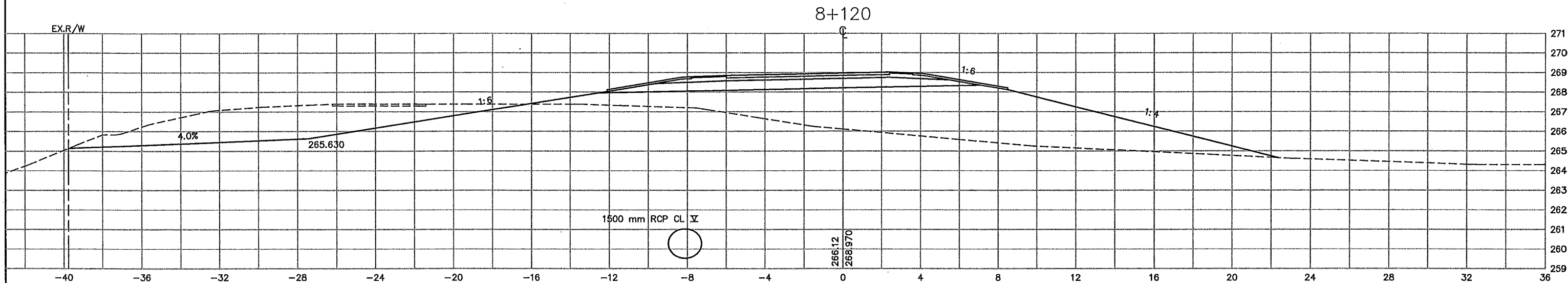
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
Kevin P. Kullb
 DATE: 11/5/99 MINN. REG. NO. 23211

**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

PLOT DATE: Dec 27 1999 6:45pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLAN\SH\A-XS03.dwg

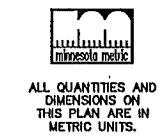


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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 DR.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

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: A-XS03
 DATE: NOVEMBER 5, 1999



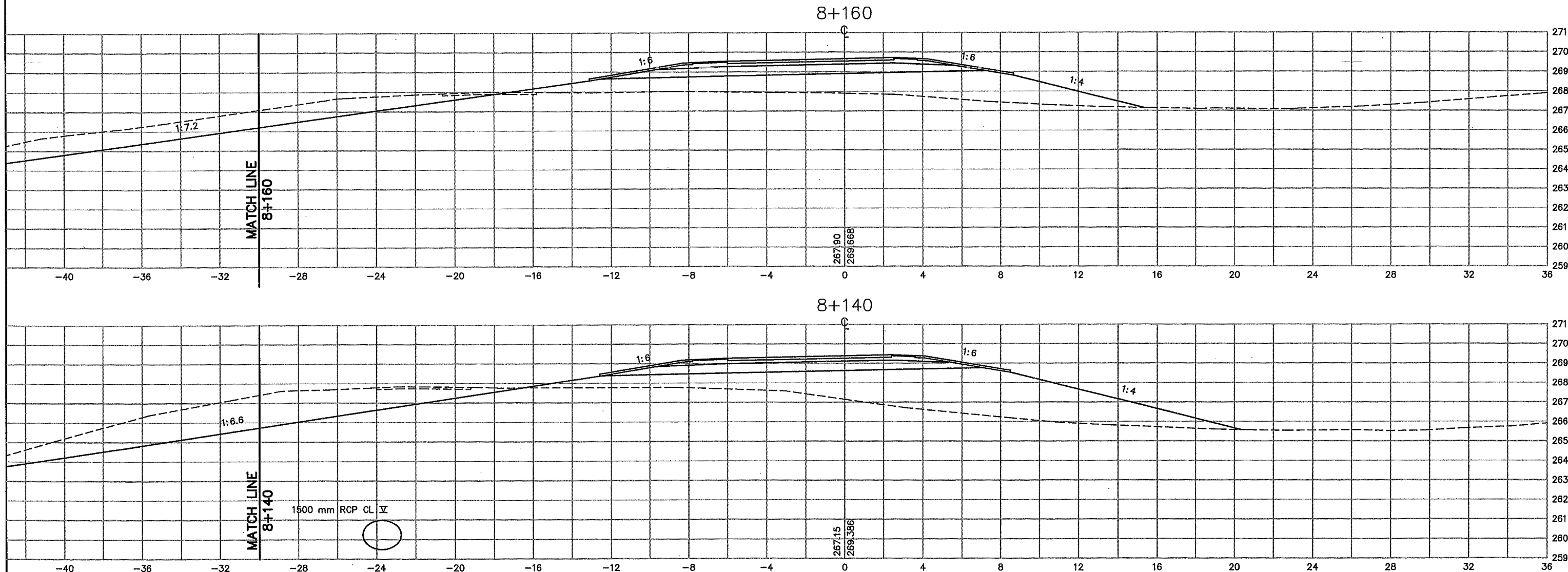
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Kevin P. Kullb
 DATE: 11/5/99 MINN. REG. NO. 23211

**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: Mar 2 10:12am J00 10:12am DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA\A-xs04.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

CHKD. BY: KPK/PBD DWG. NAME: A-XS04

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. Kullb
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

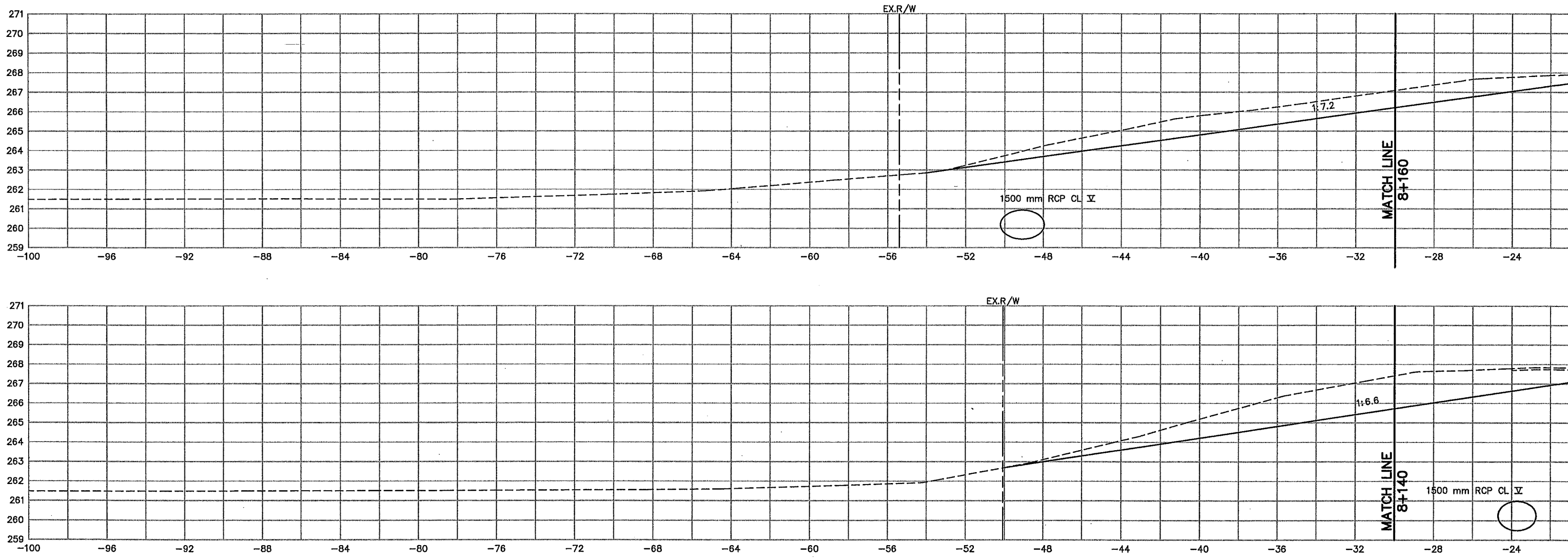
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.

481

539

PLOT DATE: Dec 2 6:48pm
DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLA\A-XS05.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
CHKD. BY: KPK/PBD	DWG. NAME: A-XS05
DATE: NOVEMBER 5, 1999	



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Kevin P. Kullb
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

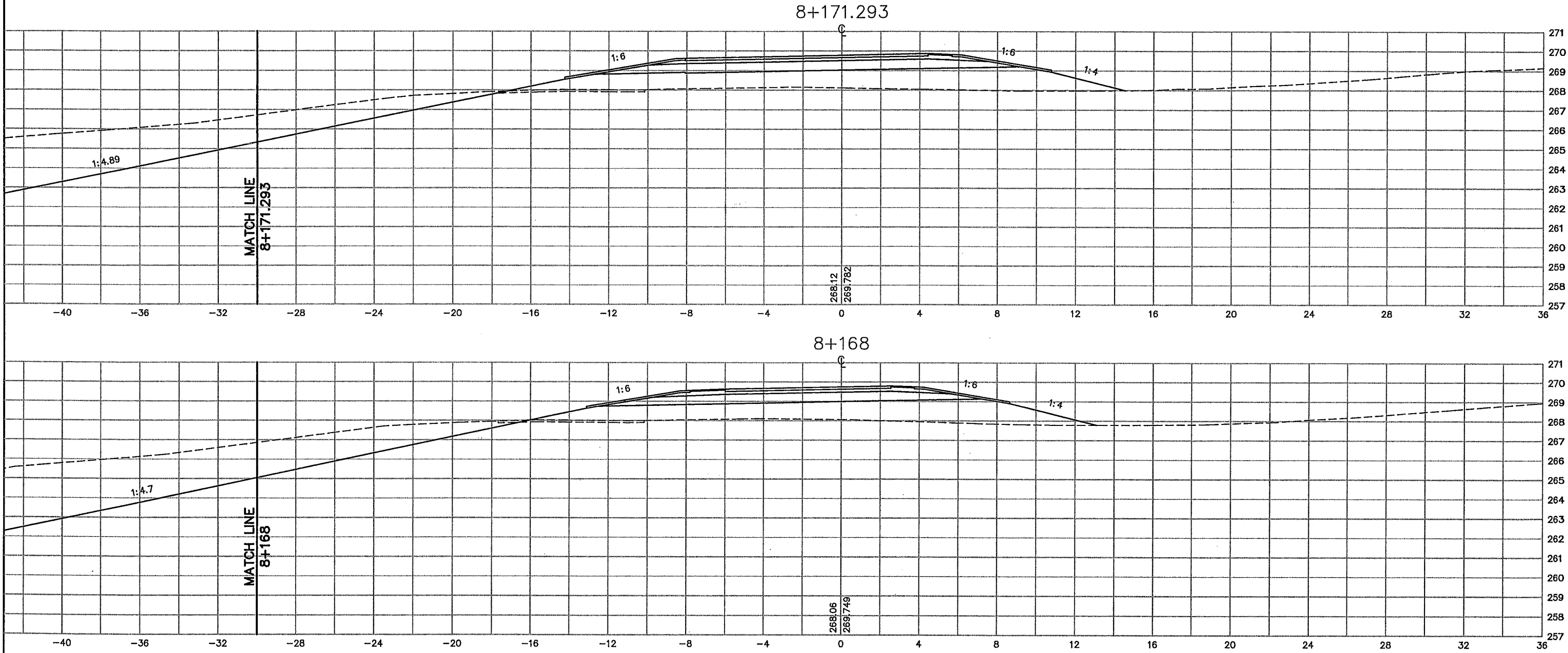
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

5 OF 8

SHEET NO.
482

539

PLOT DATE: Dec 22, 1999 6:49pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\SHT\A-xs06.dwg



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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

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

DESIGN FILE: 33889028	DRAWN BY: IKR	DESIGN BY: KPK
CHKD. BY: KPK/PBD	DWG. NAME: A-XS06	DATE: NOVEMBER 5, 1999



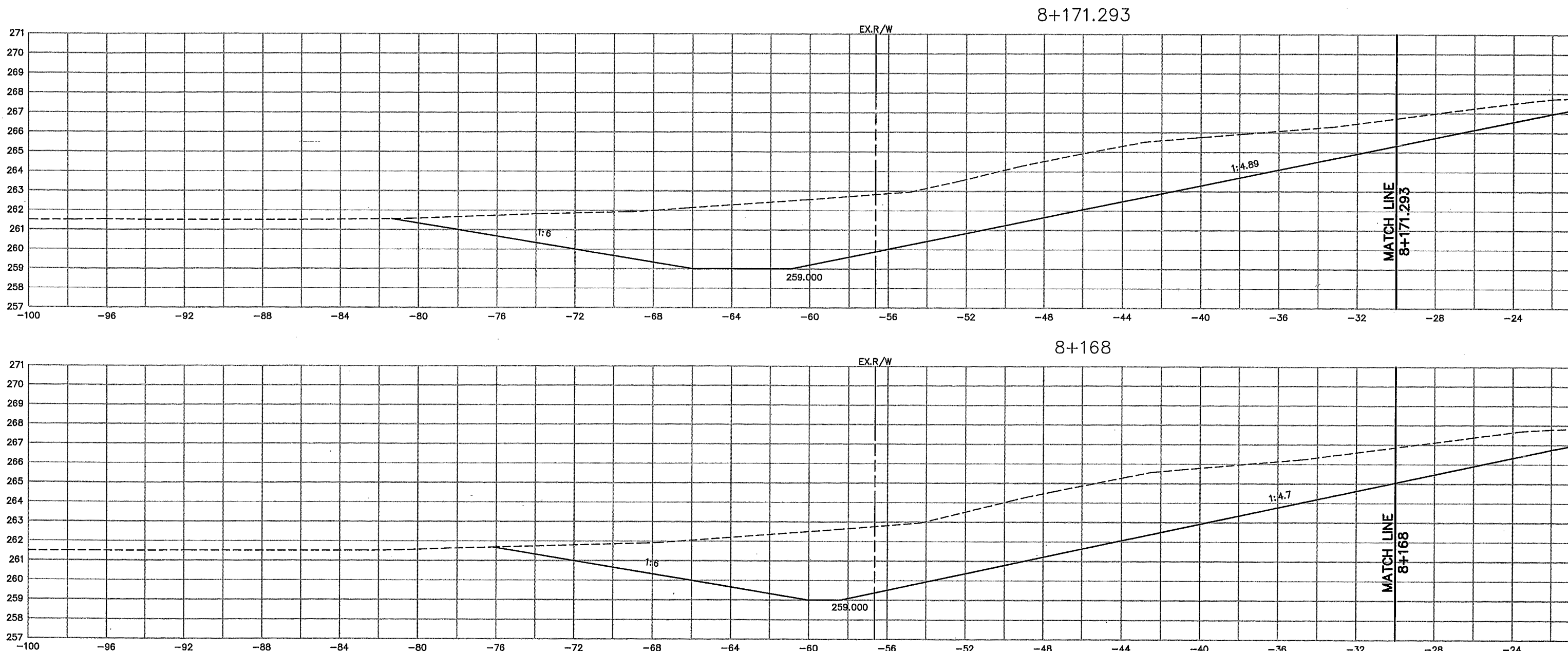
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kuhl
 DATE: 11/5/99 MINN. REG. NO. 23211

MAIN STREET/T.H. 242 RECONSTRUCTION
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

6 OF 8
 SHEET NO. 483
 539

PLOT DATE: Dec 2 1999 6:49pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLA-SHT\A-XS07.dwg



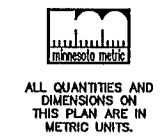
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.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
CHKD. BY: KPK/PBD	DWG. NAME: A-XS07
DATE: NOVEMBER 5, 1999	



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Kevin P. Kiehl
 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

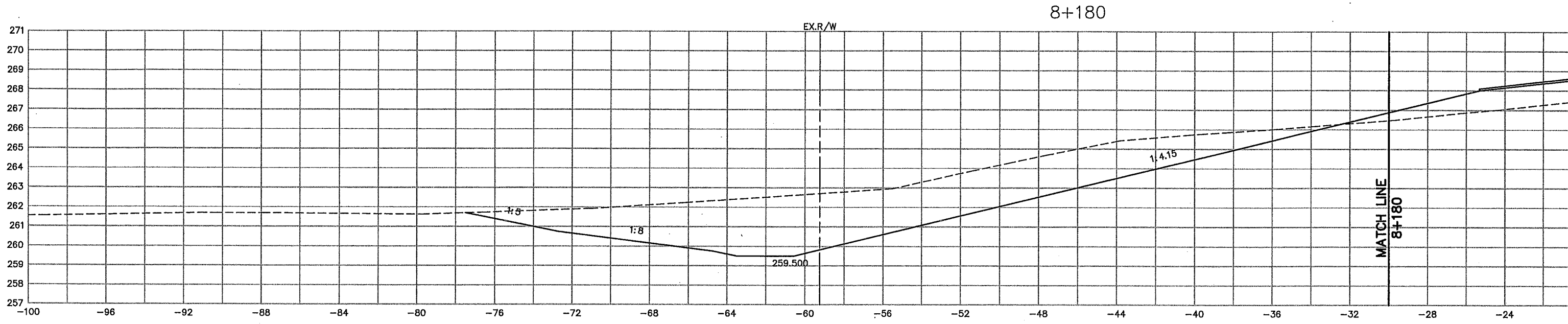
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

7 OF 8

SHEET NO.
484

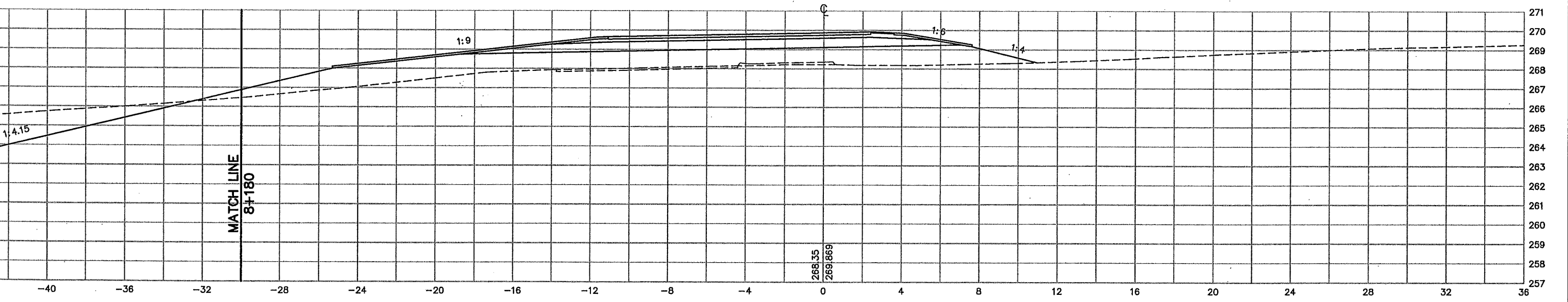
539

DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA\HT\A-xs08.dwg
PLOT DATE: Dec 2 1999 6:59pm



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



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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 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
CHKD. BY: KPK/PBD	DWG. NAME: A-XS08
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)

A DAMES & MOORE GROUP COMPANY

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. Kullb

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.

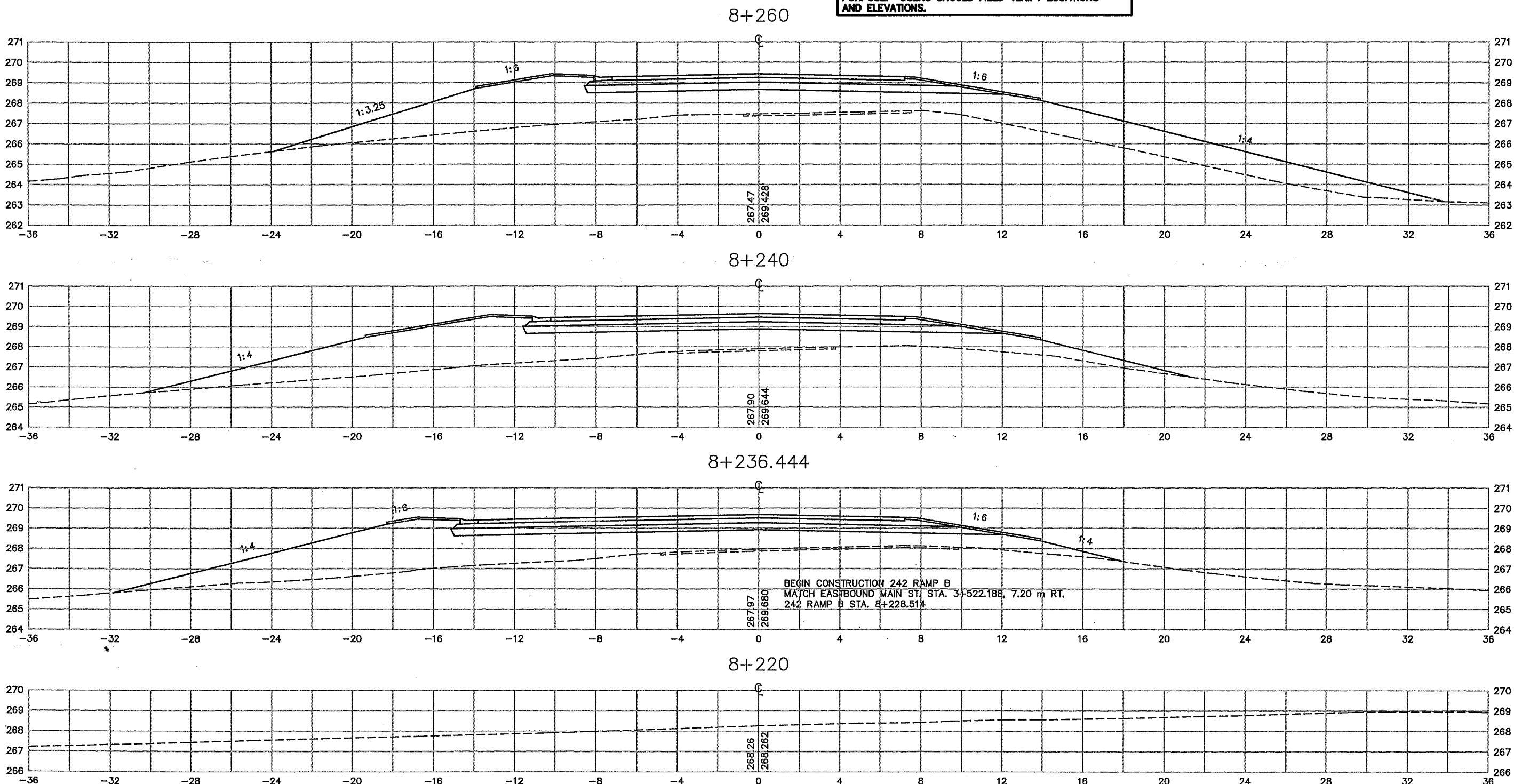
485

539

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

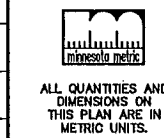
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PLOT DATE: Dec 2, 1999 6:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA\HT\B-xsbdr.dwg

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/PBD	DWG. NAME: B-XSBDR
DATE: NOVEMBER 5, 1999	



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Kevin P. Kullb

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 - 138 - 02
S.A.P.	114 - 127 - 02

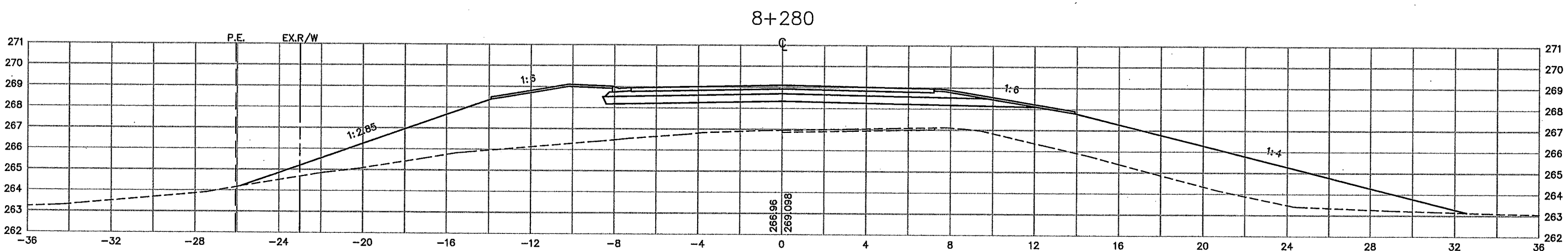
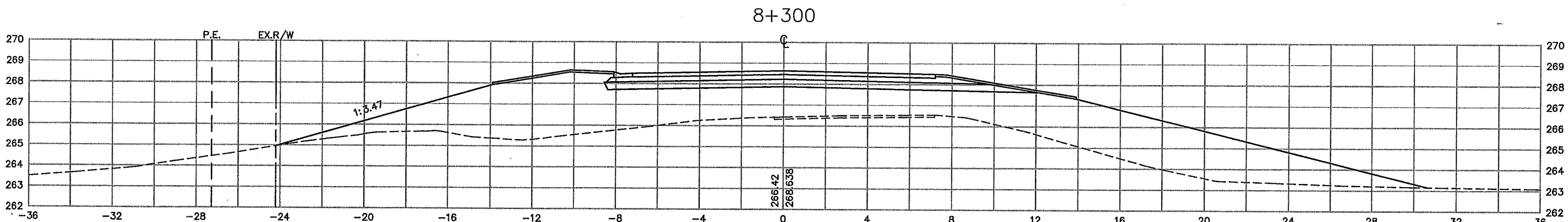
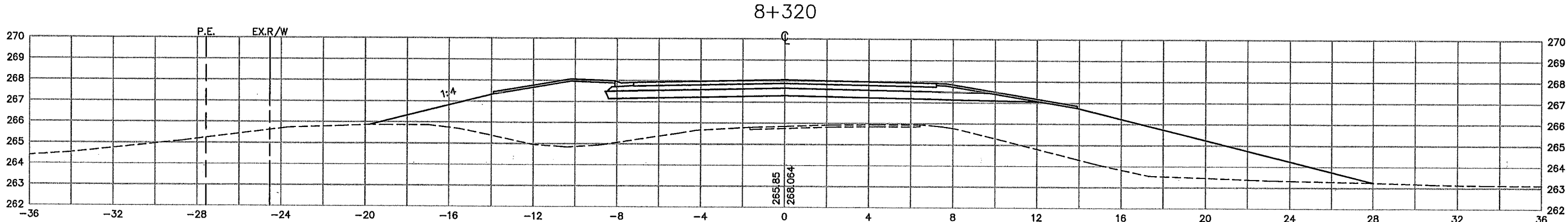
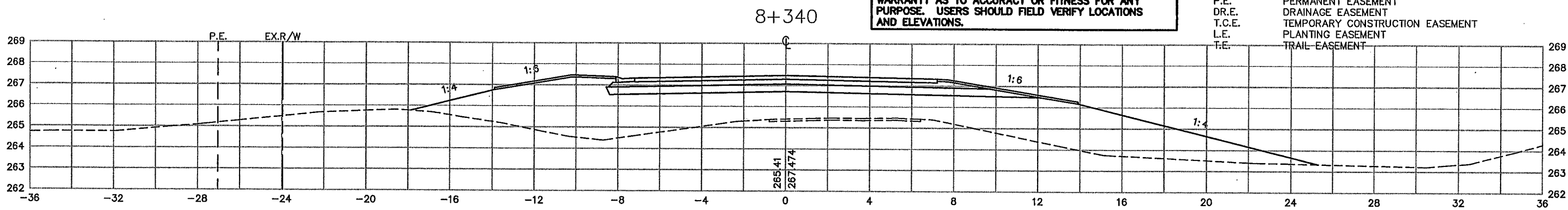
1 OF 7

SHEET NO. **486**

539

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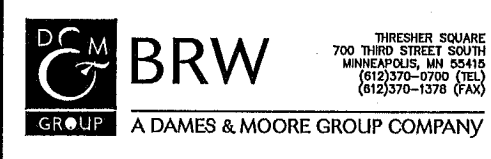
LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT



PLOT DATE: Dec 2 1999 6:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLANS\HT\B-xsbdr.dwg

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-XSBDP
 DATE:
NOVEMBER 5, 1999

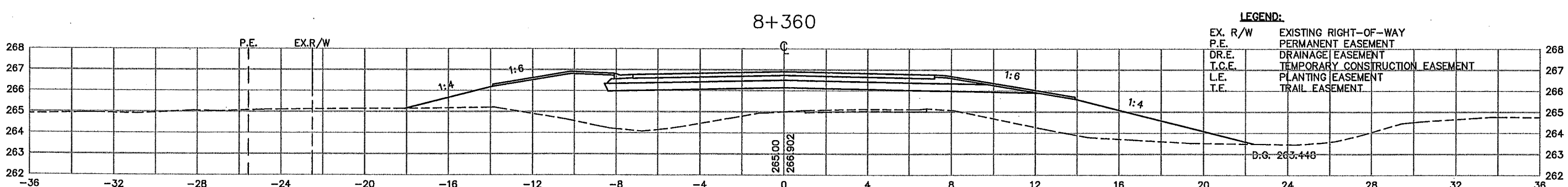
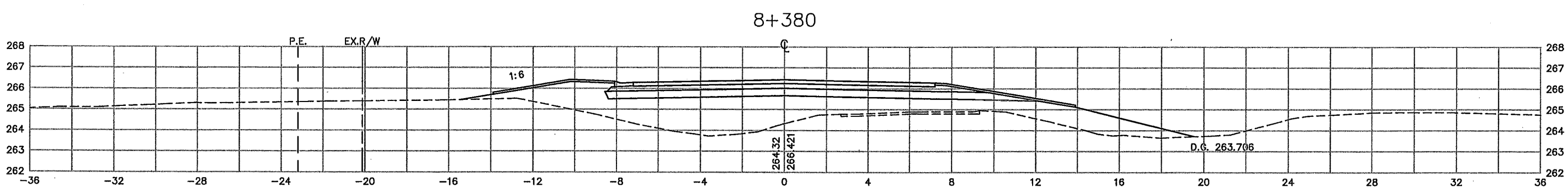
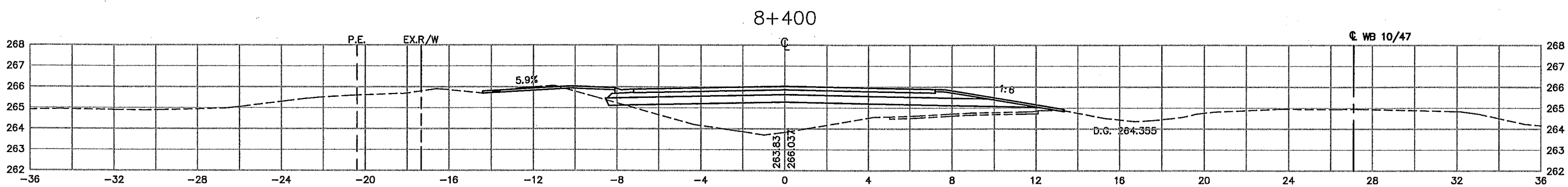
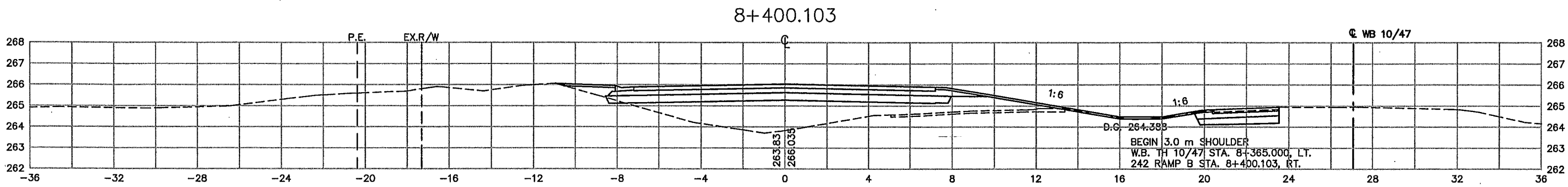
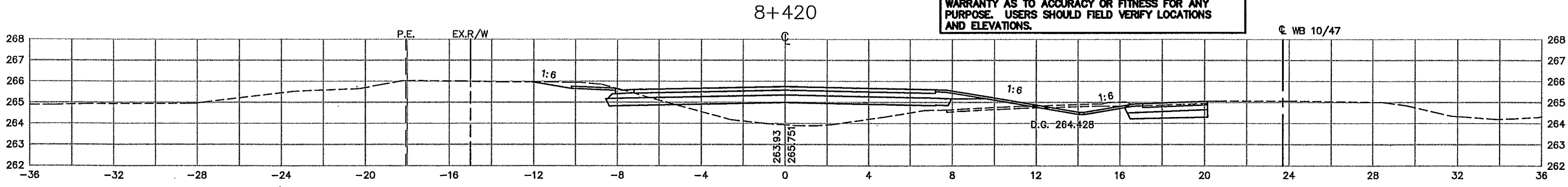


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Kevin P. Kielbaso
 DATE: 11/5/99 MINN. REG. NO. 23211

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

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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

PLOT DATE: Dec 2, 1999 6:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA\HT\B-xsbdr.dwg

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/PBD
 DWG. NAME:
B-XSBDR
 DATE:
NOVEMBER 5, 1999



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

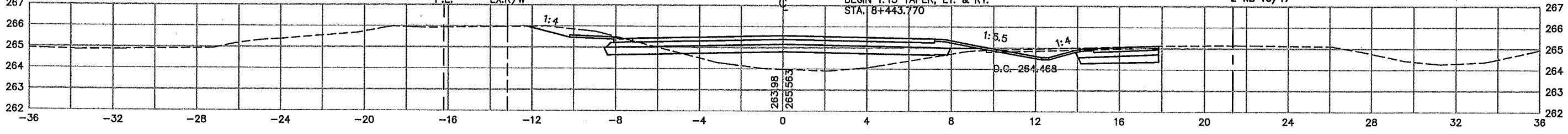
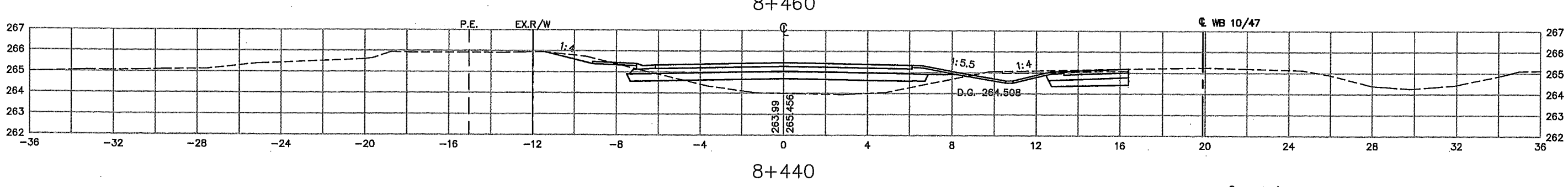
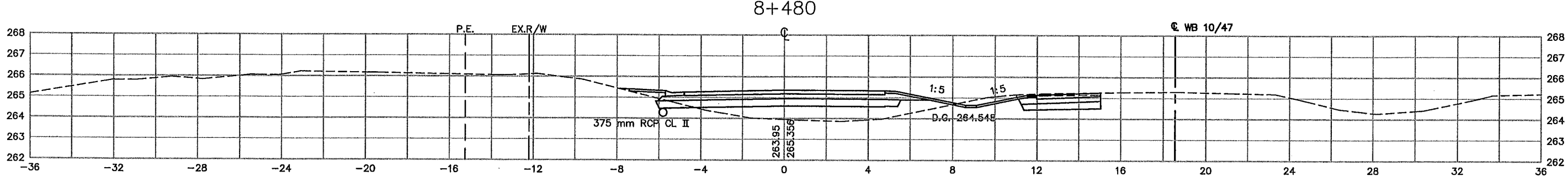
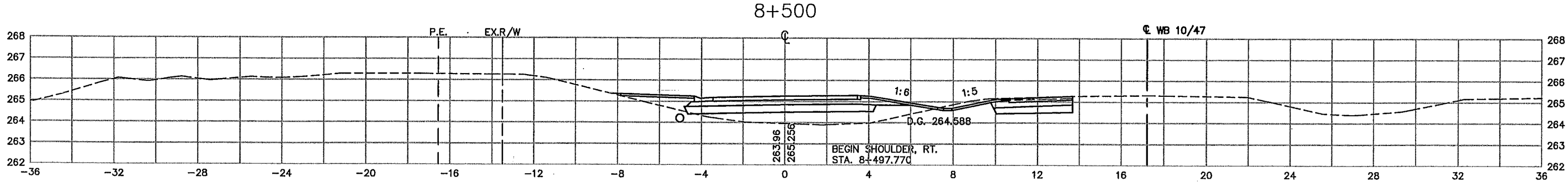
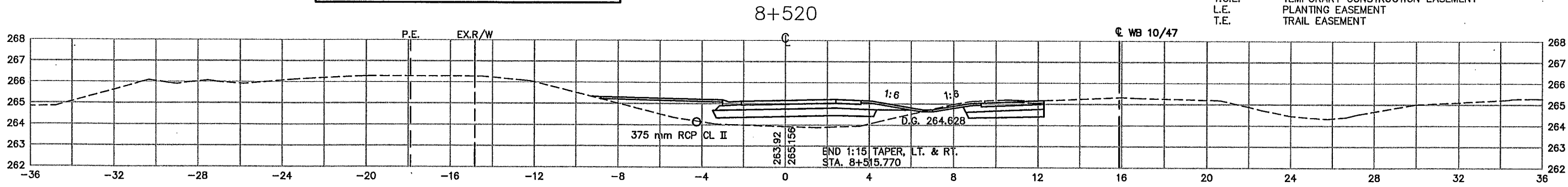
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP B
 CROSS SECTIONS
 STATION 8+360.000 TO STATION 8+420.000
 CITY PROJECT 98-20

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

3 OF 7
 SHEET NO.
488
539

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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT



PLOT DATE: Dec 2 1999 6:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA\HT\B-xsbdr.dwg

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/PBD	DWG. NAME: B-XSBD
DATE: NOVEMBER 5, 1999	



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

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

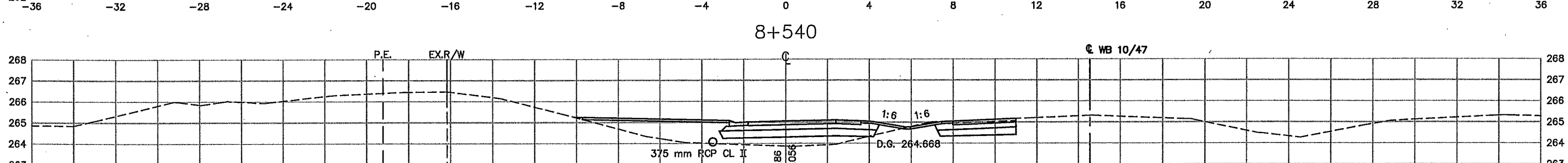
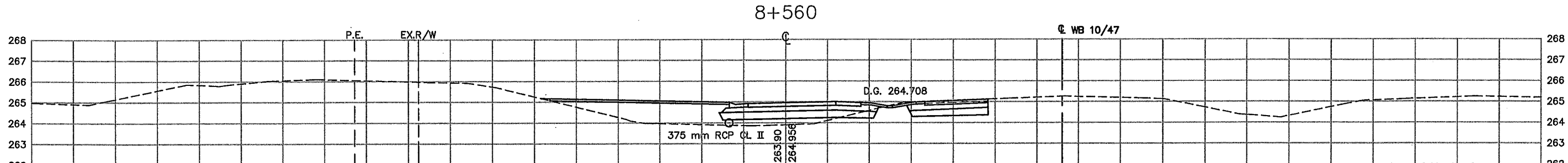
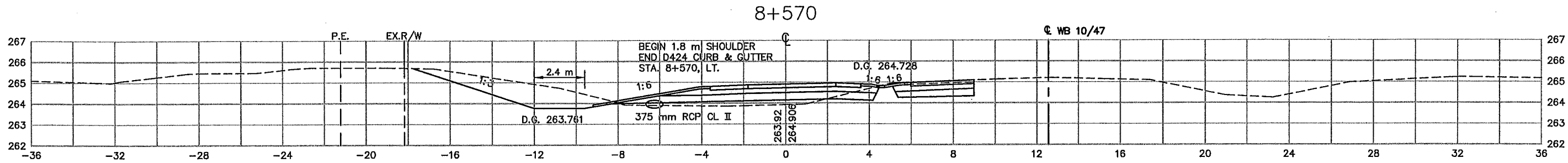
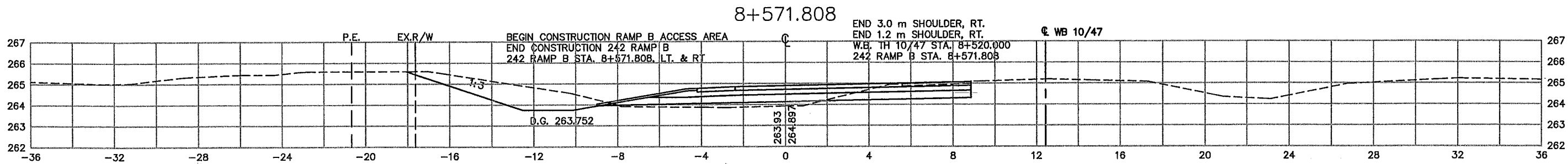
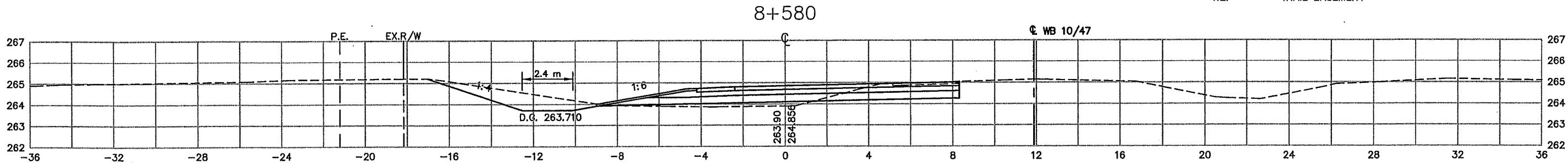
**MAIN STREET/T.H. 242 RECONSTRUCTION
 242 RAMP B
 CROSS SECTIONS
 STATION 8+440.000 TO STATION 8+520.000**
 CITY PROJECT 98-20

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

4 OF 7
 SHEET NO.
489
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



PLOT DATE: Dec 27, 1999 6:54pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLAN\SH1\B-xsbdr.dwg

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/PBD DWG. NAME: B-XSBDP

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. Kullb

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

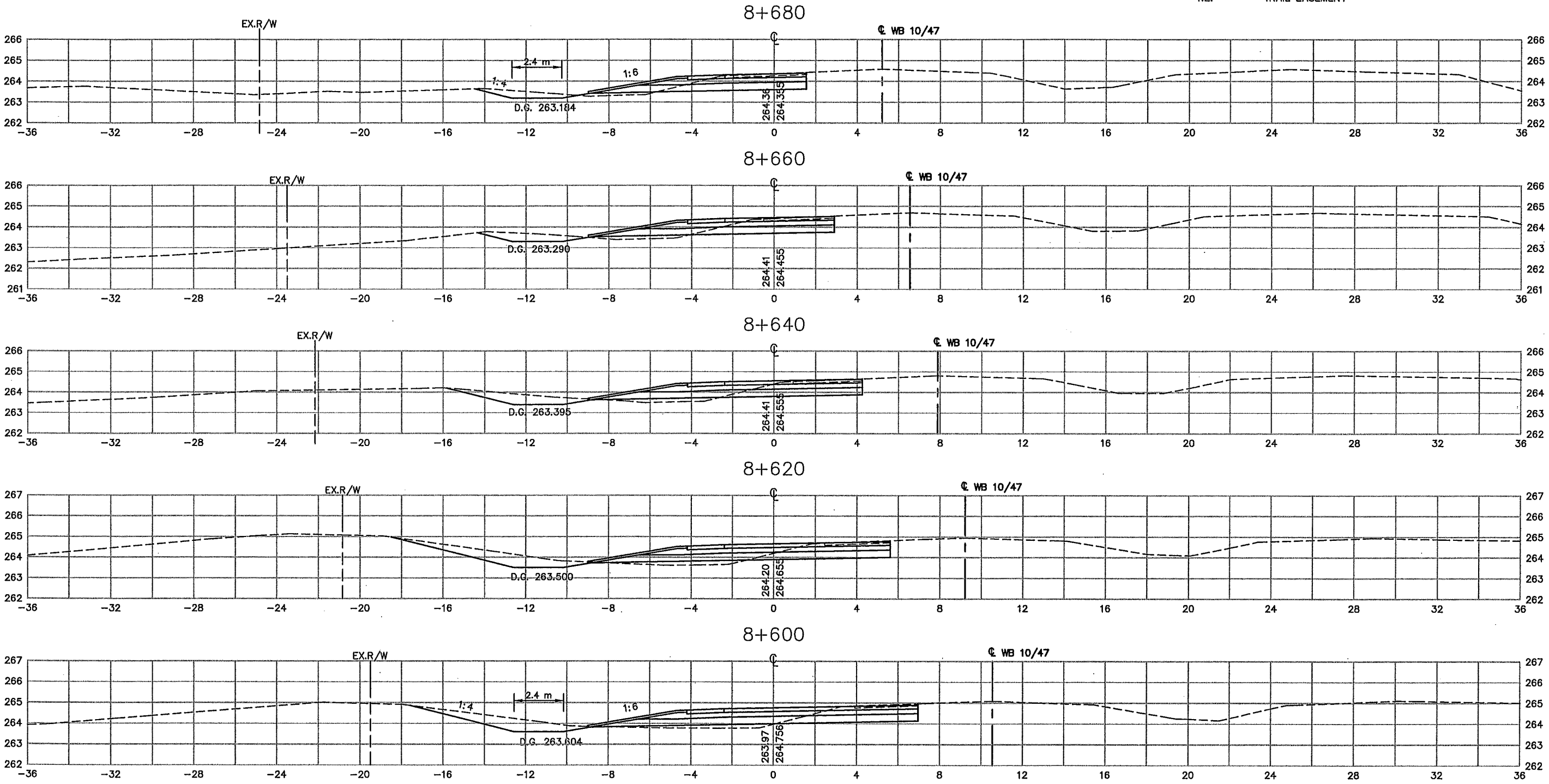
5 OF 7

SHEET NO.
490

539

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



PLOT DATE: Dec 2, 1999 6:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA\HT\B-xsbdr.dwg

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/PBD DWG. NAME: B-XSBD

DATE: NOVEMBER 5, 1999

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BRW
 A DAMES & MOORE GROUP COMPANY
 700 THIRD STREET SOUTH
 MINNEAPOLIS, MN 55415
 (612)370-0700 (TEL)
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Kevin P. Kielbaso

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

**MAIN STREET/T.H. 242 RECONSTRUCTION
 242 RAMP B ACCESS AREA**
 CROSS SECTIONS
 STATION 8+600.000 TO STATION 8+680.000

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)

S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

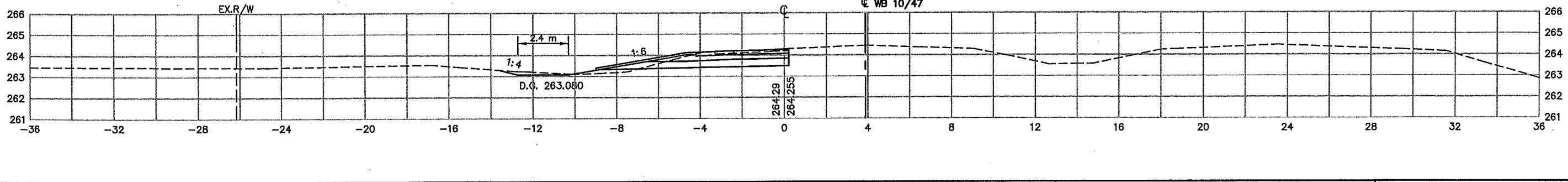
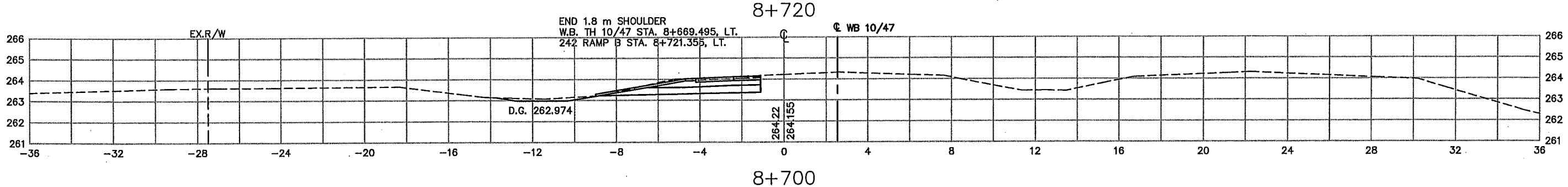
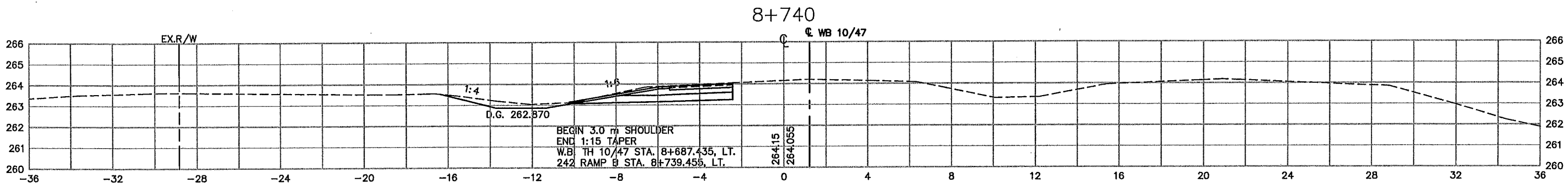
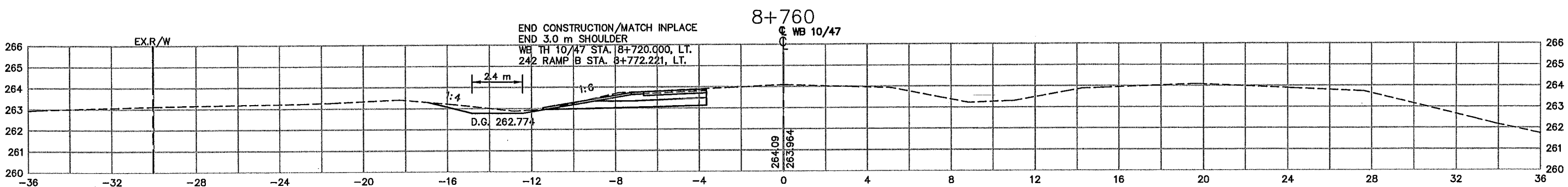
6 OF 7

SHEET NO.
491

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



PLOT DATE: Dec 2 1999 6:54pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL\HT\B-xbdr.dwg

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/PBD DWG. NAME: B-XSBDR

DATE:
NOVEMBER 5, 1999

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

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. Kiehl

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

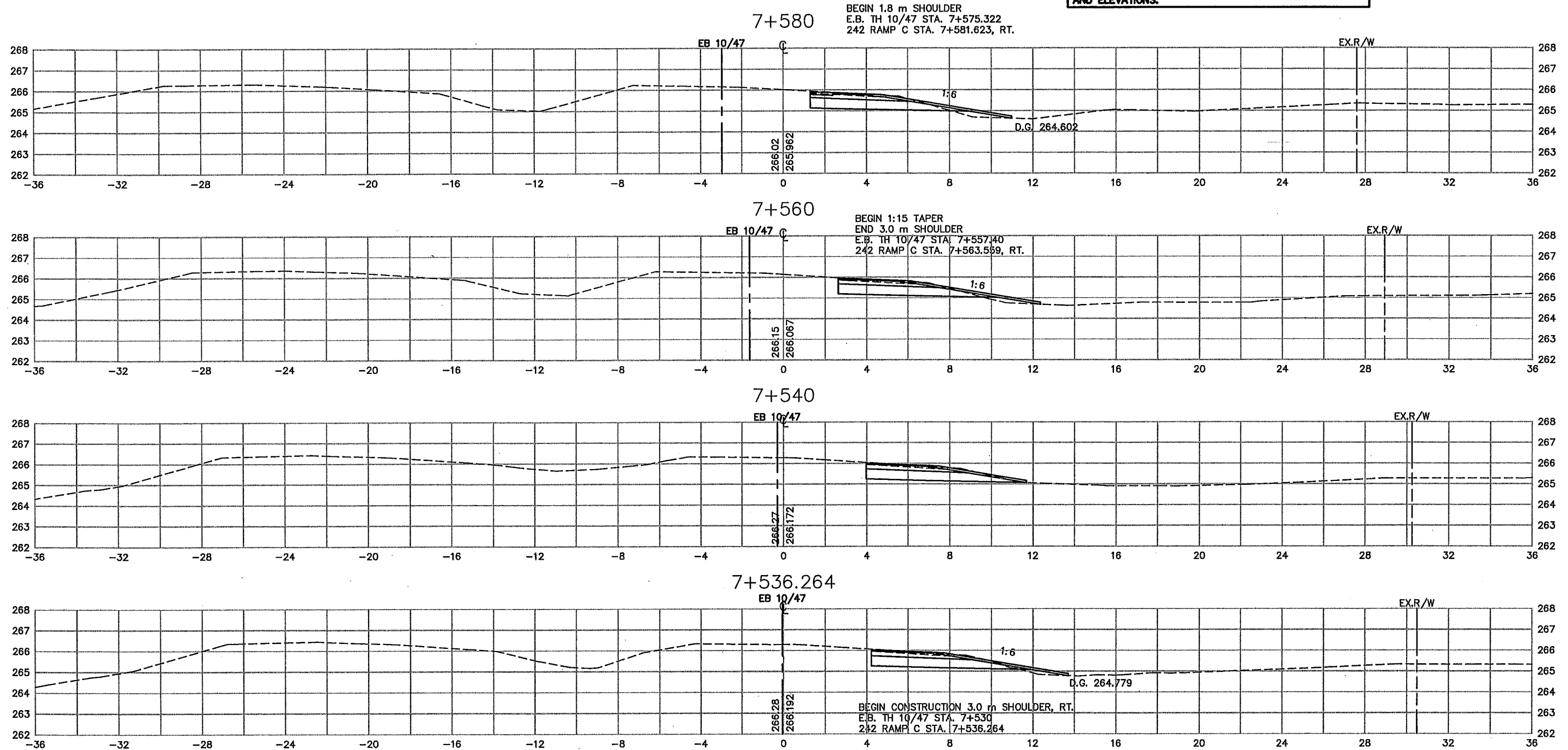
SHEET NO.
492

539

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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PLOT DATE: Apr 1, 2000 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL\HT\C-xsbdr.dwg

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



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Kevin P. Kullb

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

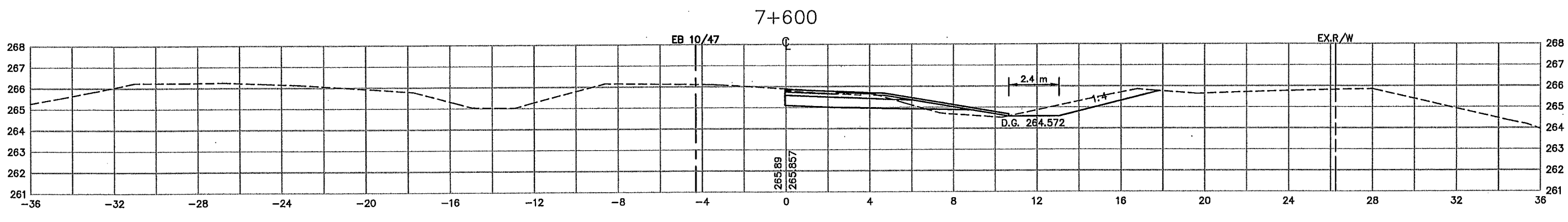
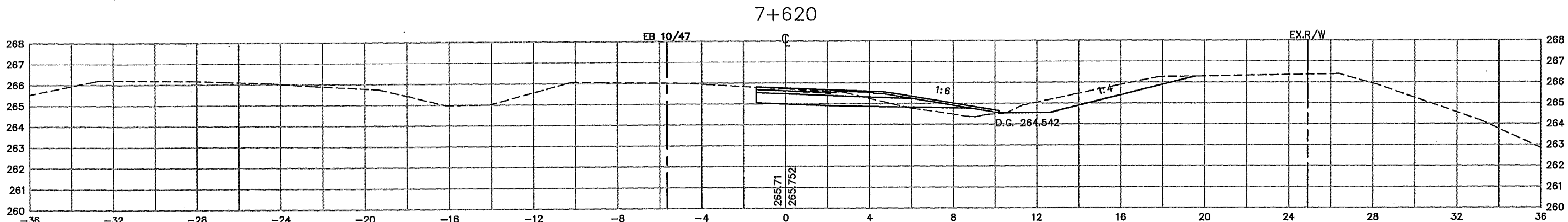
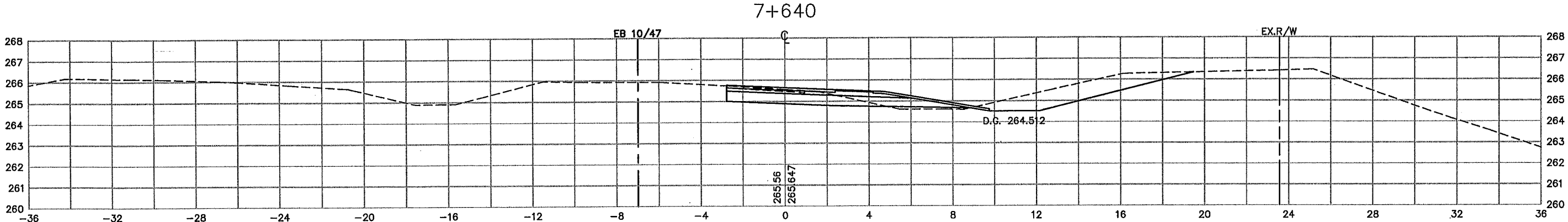
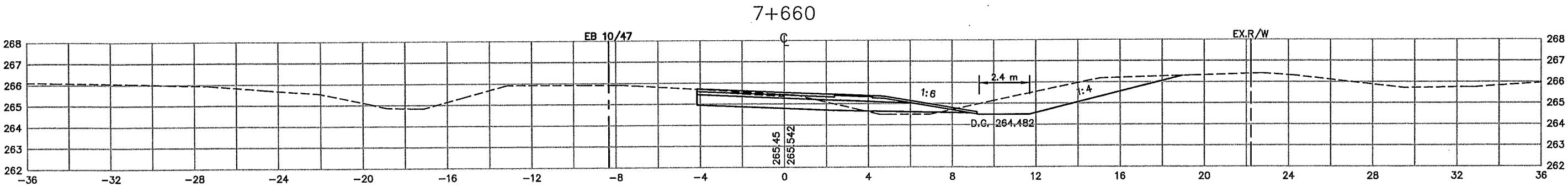
1 OF 8

SHEET NO.
493

539

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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT



PLOT DATE: Apr 11 2000 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLA...HT\C--xsbrd.dwg

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
 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+600.000 TO STATION 7+660.000

CITY PROJECT 98-20

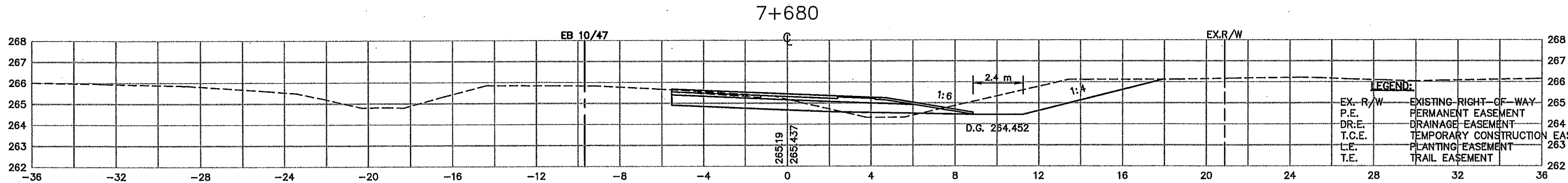
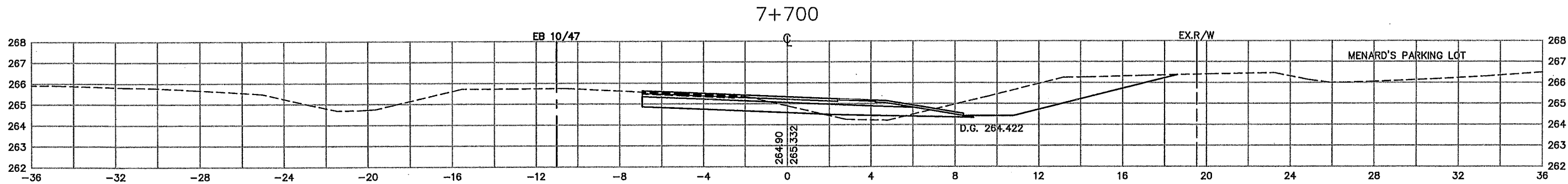
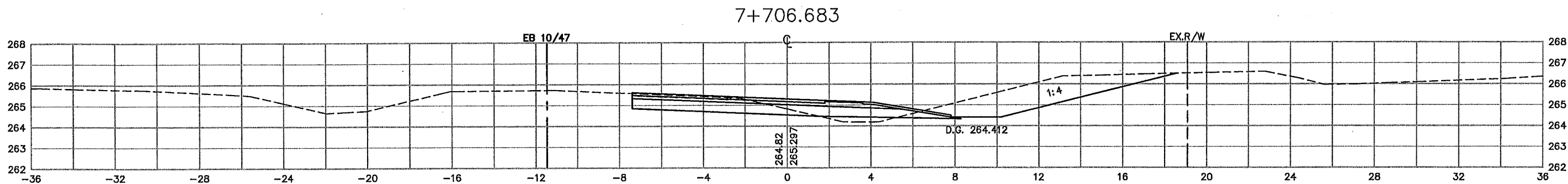
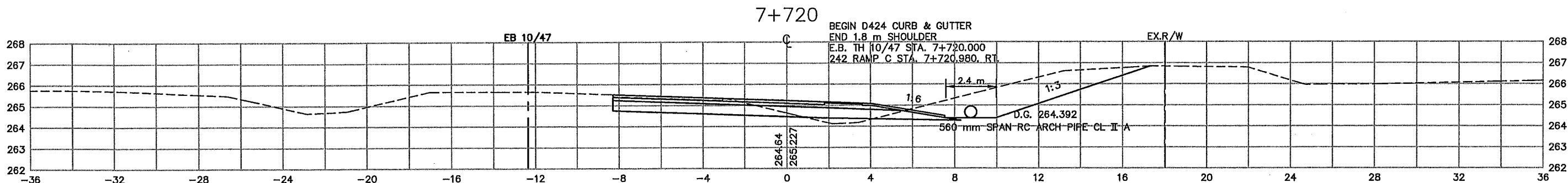
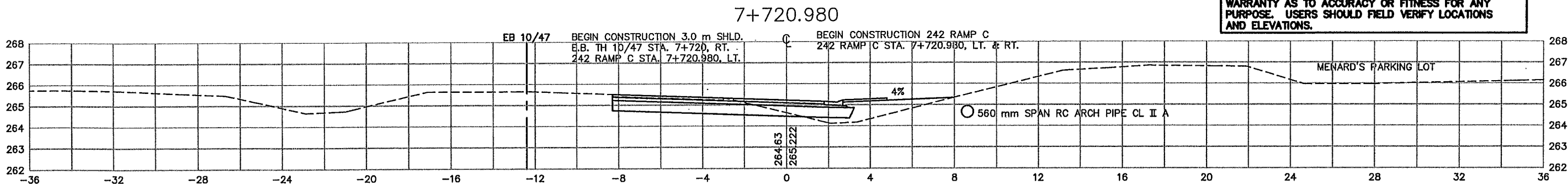
S.P. 0212-40 (T.H.242=242)

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

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

PLOT DATE: Apr 11 2000 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA\AS-BUILT\C-xsbdr.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	4/12/00	MOD. REQ. #9: MODIFIED LOCATION FES CI
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028

DRAWN BY: IKR
DESIGN BY: KPK

CHKD. BY: KPK/PDB
DWG. NAME: RAMP C-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)
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Kevin P. Kullb

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)

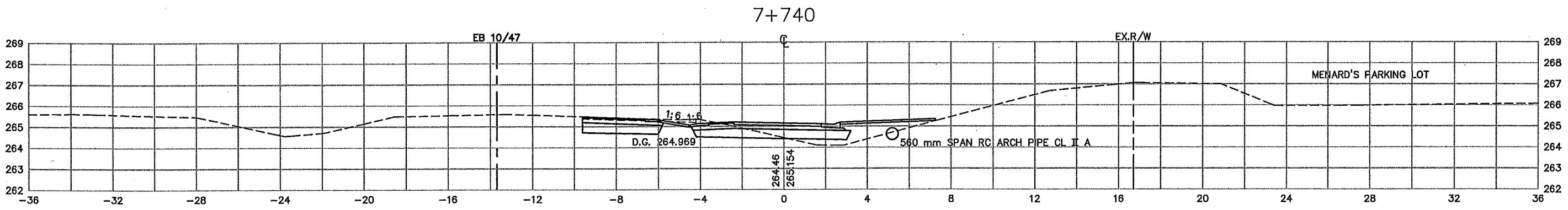
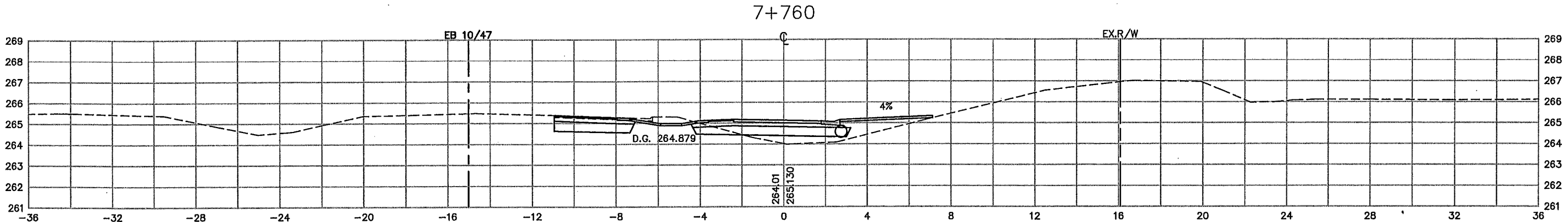
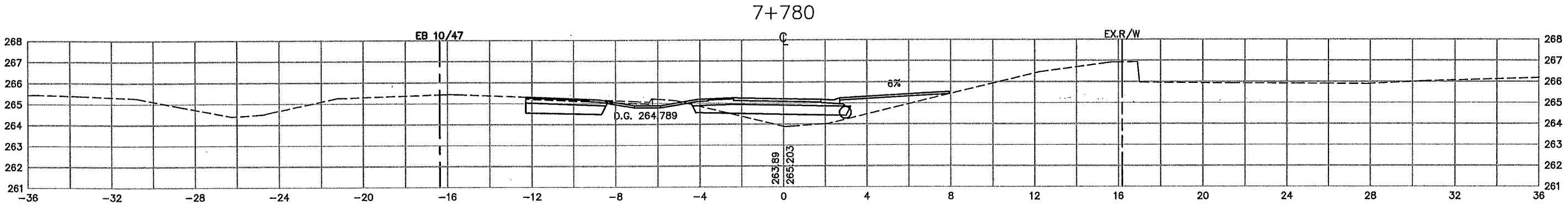
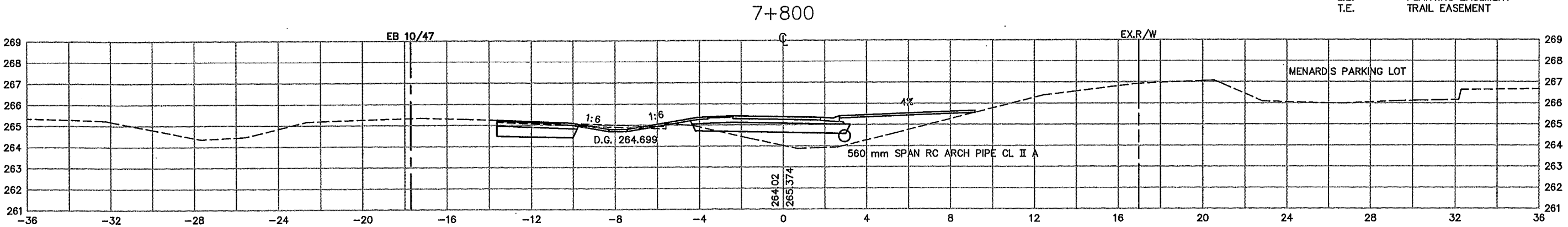
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
495

539

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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



PLOT DATE: Apr 1, 2000 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL\HT\C-xsbdr.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	4/12/00	MOD.REQ.#9: MODIFIED LOCATION OF FES CI
2	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.

BRW
 A DAMES & MOORE GROUP COMPANY
 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. Kullb
 DATE: 11/5/99 MINN. REG. NO. 23211

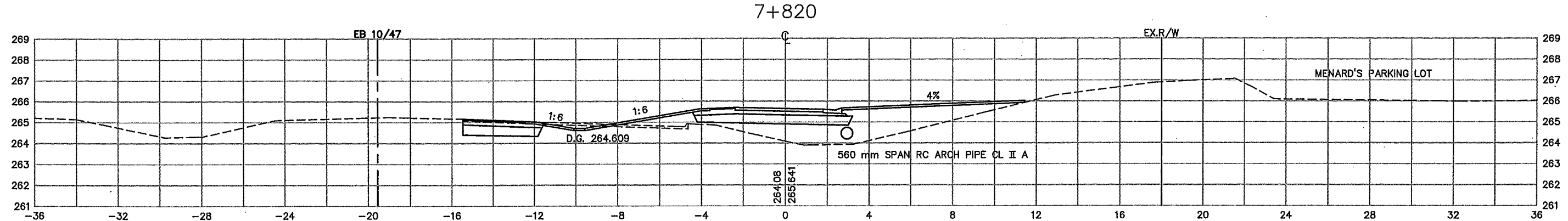
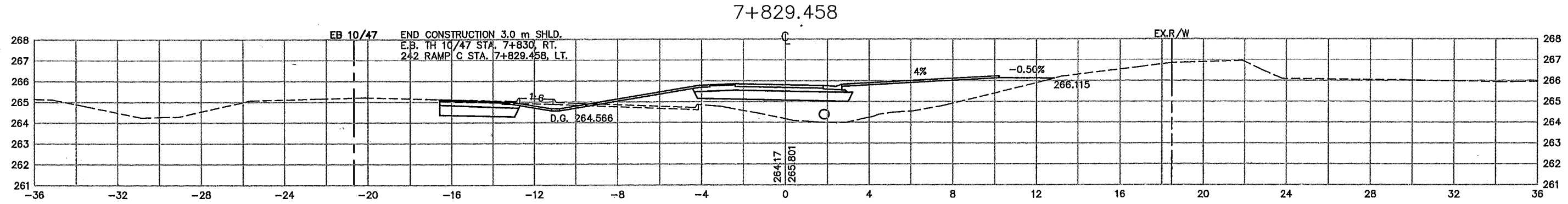
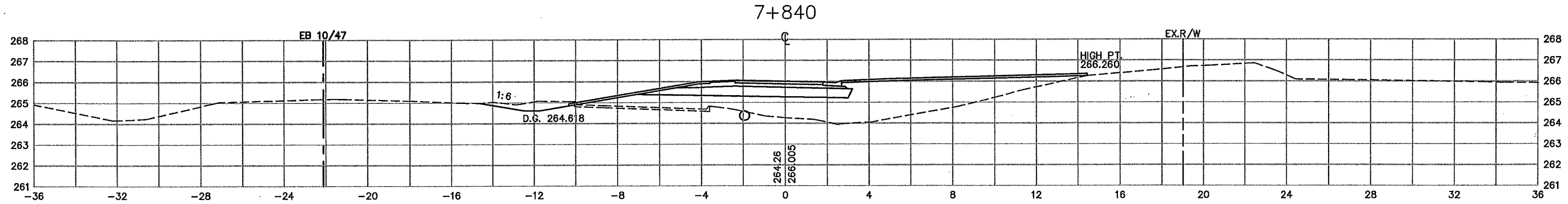
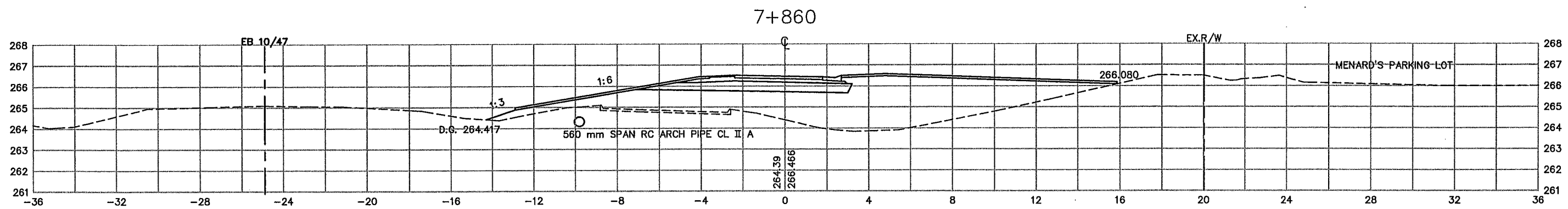
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C
 CROSS SECTIONS
 STATION 7+740.000 TO STATION 7+800.000
 CITY PROJECT 98-20

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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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



PLOT DATE: Apr 1, 2000 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL\HT\C-xsbdr.dwg

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



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Kevin P. Kuhl

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**

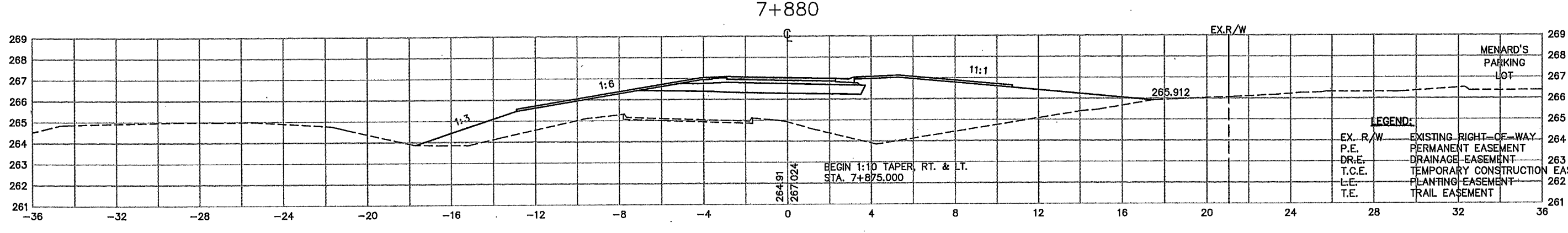
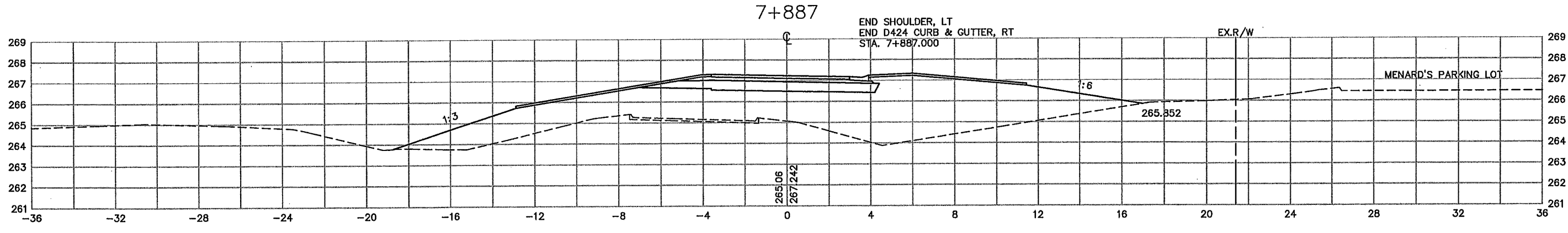
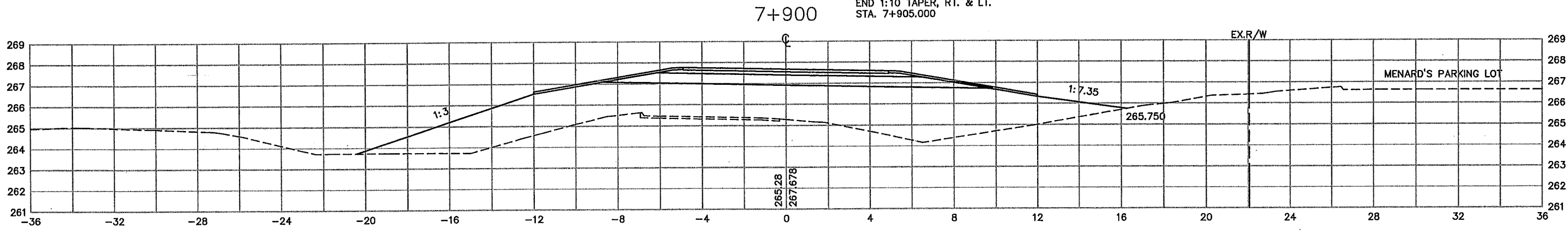
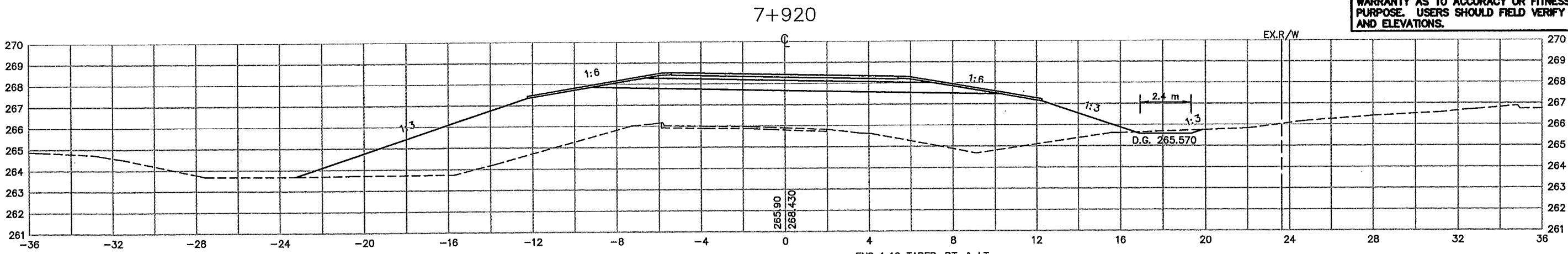
CITY PROJECT 98-20

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

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PLOT DATE: Apr 11, 2000 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA...HT\C-xbdr.dwg

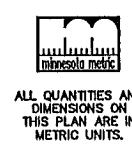
REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028

DRAWN BY: IKR DESIGN BY: KPK

CHKD. BY: KPK/PDB DWG. NAME: RAMPC-XS

DATE: NOVEMBER 5, 1999



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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

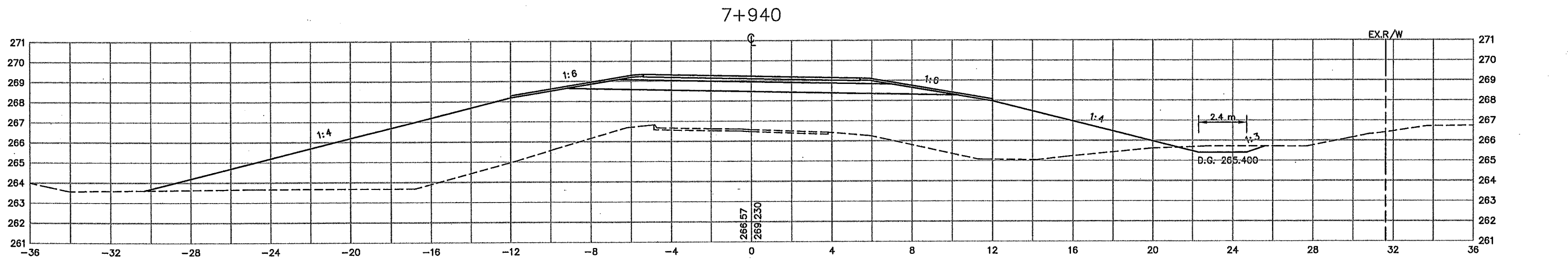
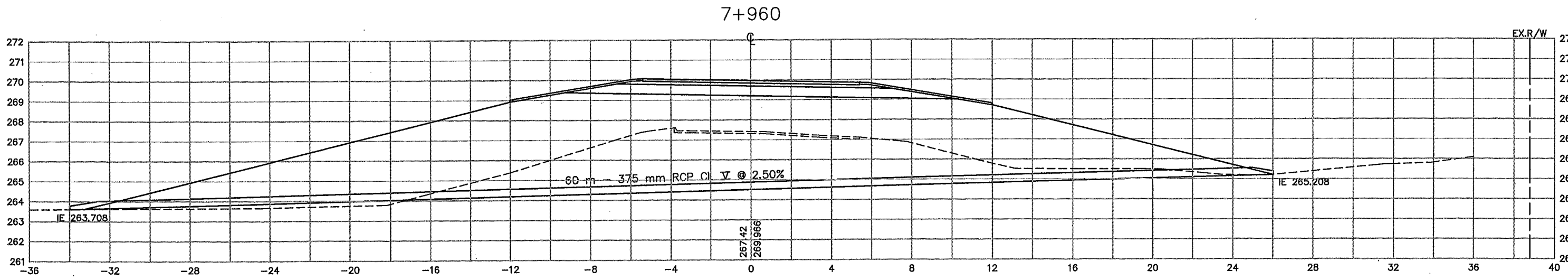
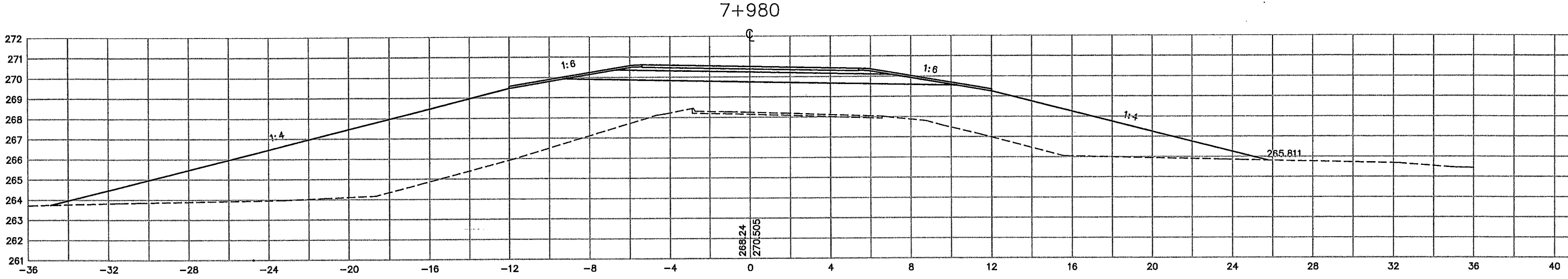
S.P.	T.H. 242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
498

539

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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT



PLOT DATE: Apr 11, 2000 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLA\HT\C-xsbdr.dwg

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

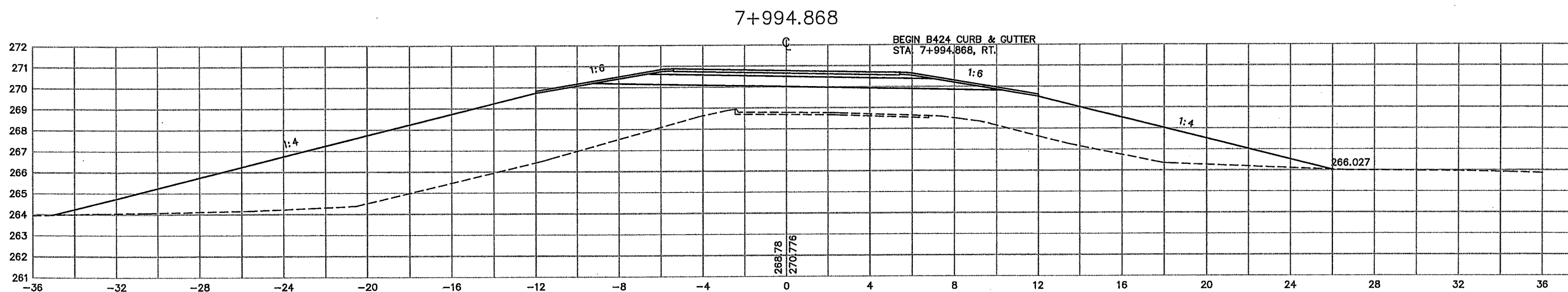
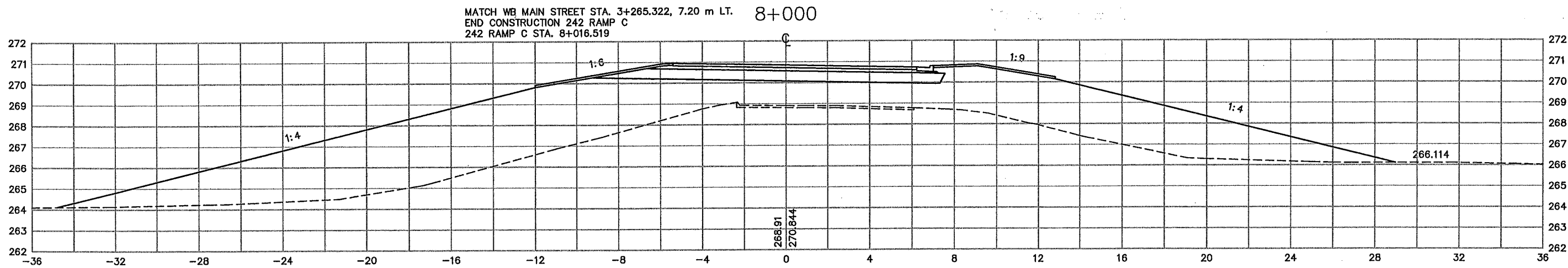
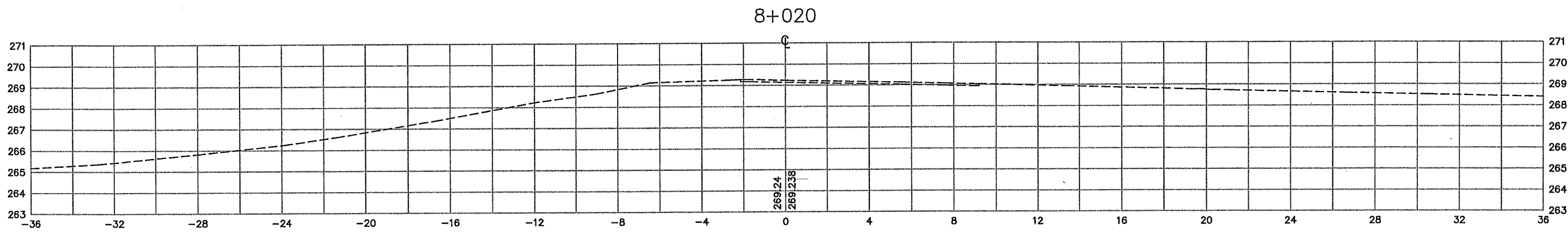
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C
 CROSS SECTIONS
 STATION 7+940.000 TO STATION 7+980.000
 CITY PROJECT 98-20

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
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L.E. PLANTING EASEMENT
T.E. TRAIL EASEMENT



PLOT DATE: Apr 11, 2000 5:26pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\SEC\PLA\...HT\C-xsbdr.dwg

Table with columns: REV. NO., BY, DATE, REVISIONS DESCRIPTION. Row 1: 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



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

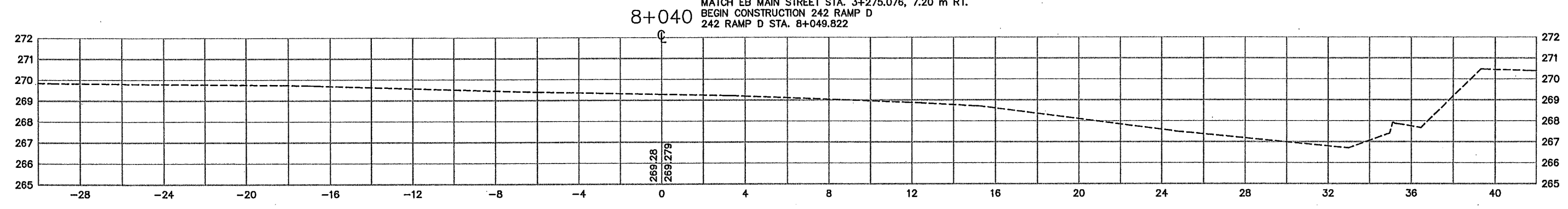
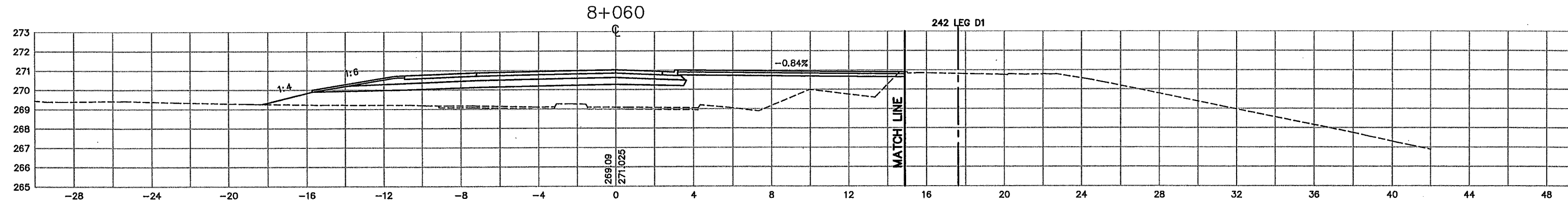
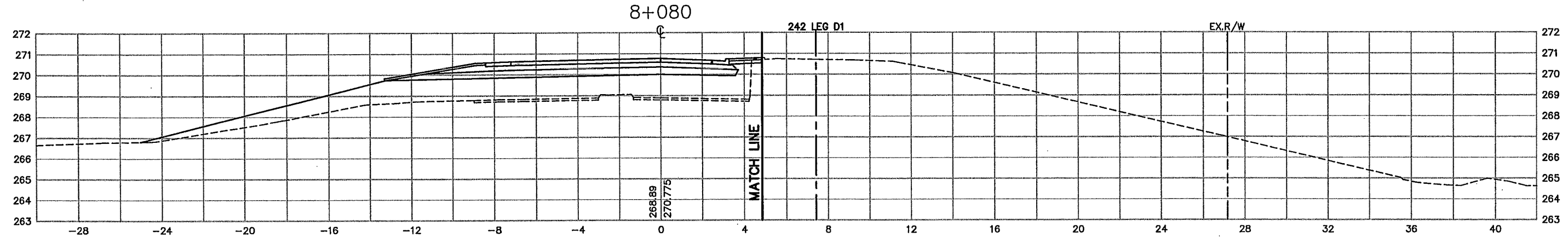
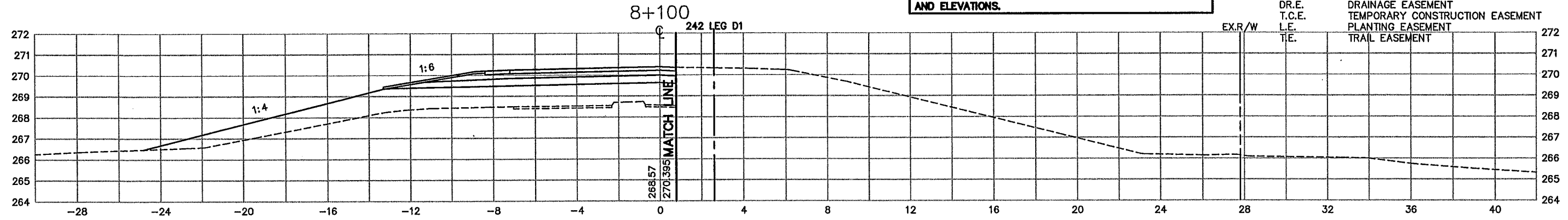
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP C
CROSS SECTIONS
STATION 7+994.868 TO STATION 8+020.000
CITY PROJECT 98-20

Table with columns: S.P., S.A.P. and values for stationing ranges like 02-614-19, 02-618-24, etc.

8 OF 8
SHEET NO. 500
539

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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT



MATCH EB MAIN STREET STA. 3+275.076, 7.20 m RT.
 BEGIN CONSTRUCTION 242 RAMP D
 242 RAMP D STA. 8+049.822

PLOT DATE: Apr 1, 2000 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PL\1\1\0-xsbdr.dwg

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/PBD
 DWG. NAME:
D-XSBDR
 DATE:
NOVEMBER 5, 1999



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

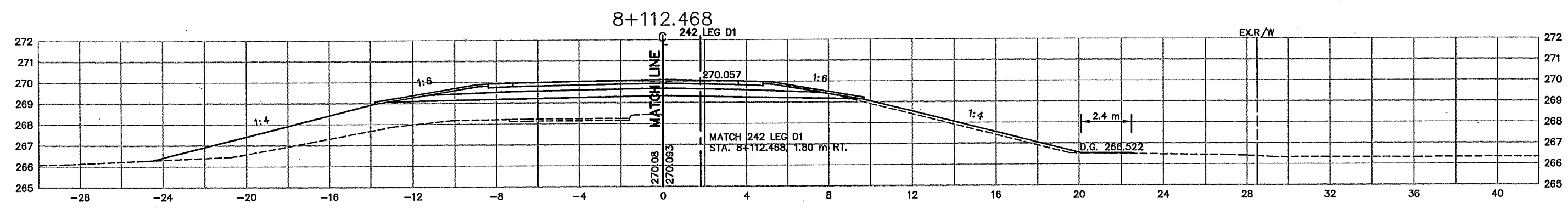
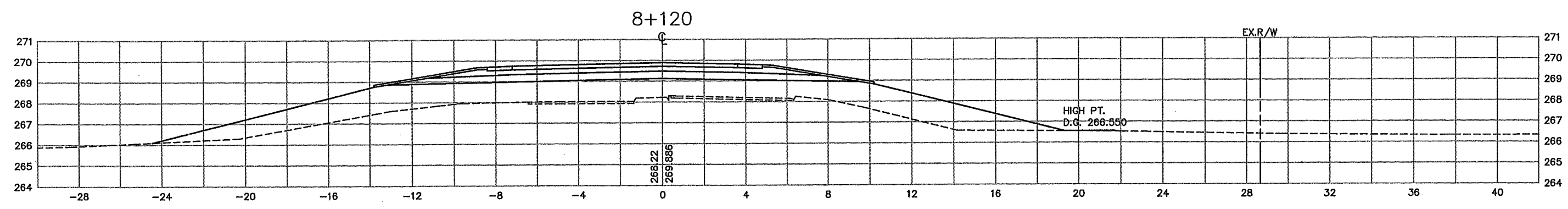
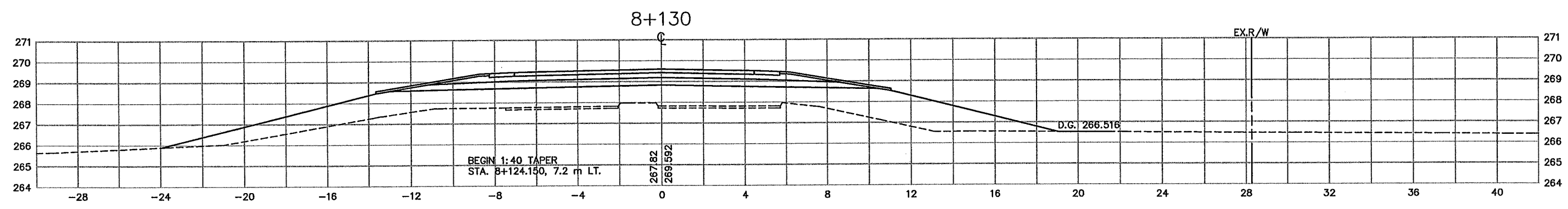
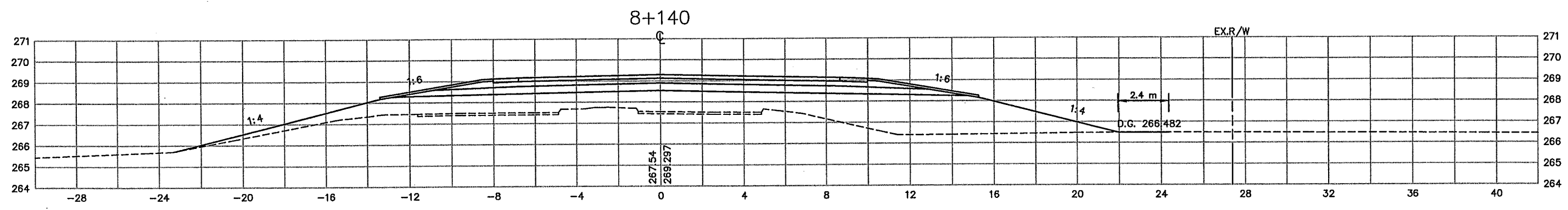
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
 CROSS SECTIONS
 STATION 8+040.000 TO STATION 8+100.000
 CITY PROJECT 98-20

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

1 OF 13
 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



PLOT DATE: Apr 11, 2000 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLA\TTD-xsbdr.dwg

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/PBD
 DWG. NAME: D-XSBDR
 DATE: NOVEMBER 5, 1999



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

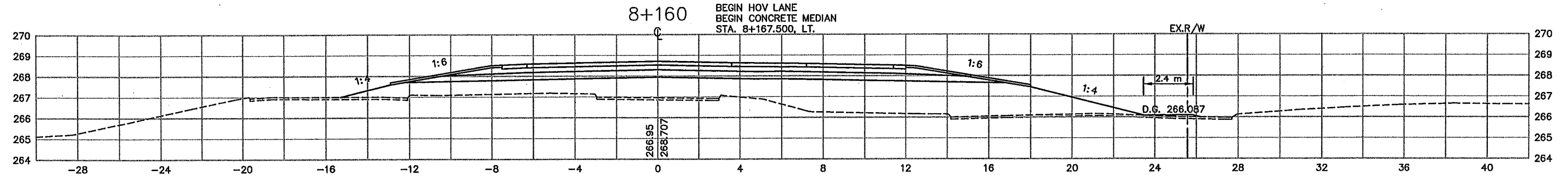
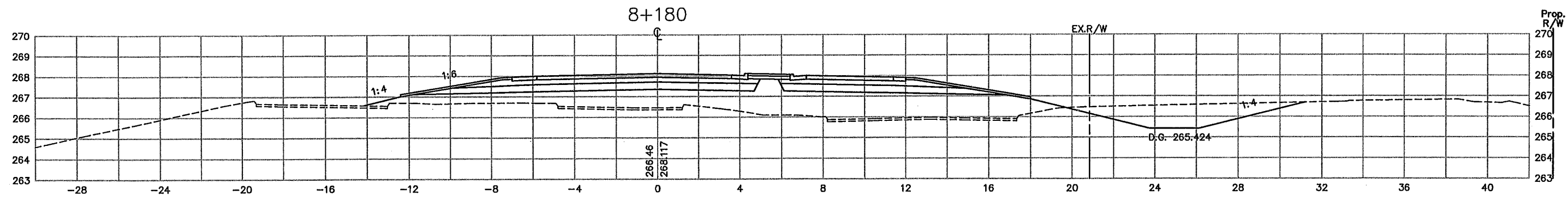
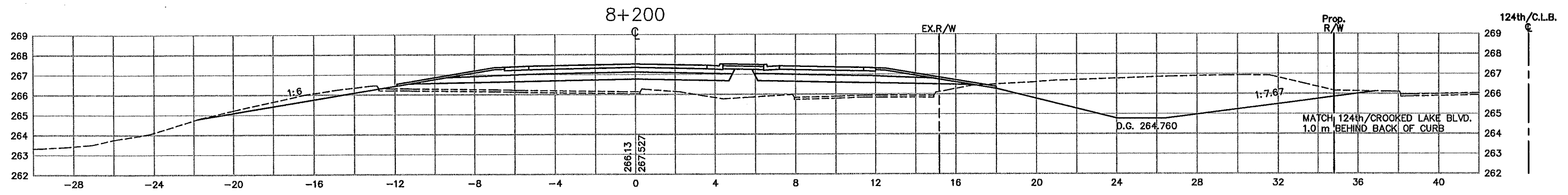
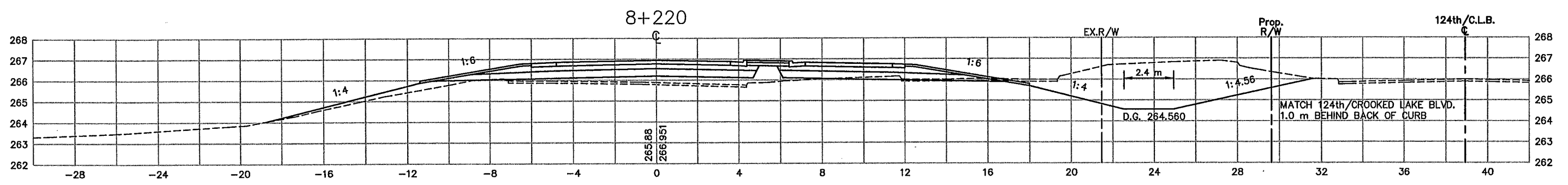
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
 CROSS SECTIONS
 STATION 8+112.468 TO STATION 8+140.000
 CITY PROJECT 98-20

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 - 138 - 02
 S.A.P. 114 - 127 - 02

2 OF 13
 SHEET NO. 502
 539

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



PLOT DATE: Apr 11, 2000 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\d-xsbdr.dwg

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
CHKD. BY: KPK/PBD	DWG. NAME: D-XSBD	
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. Kuhl
 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

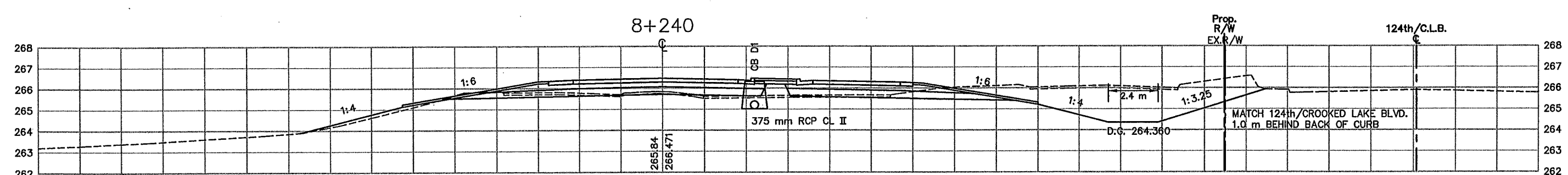
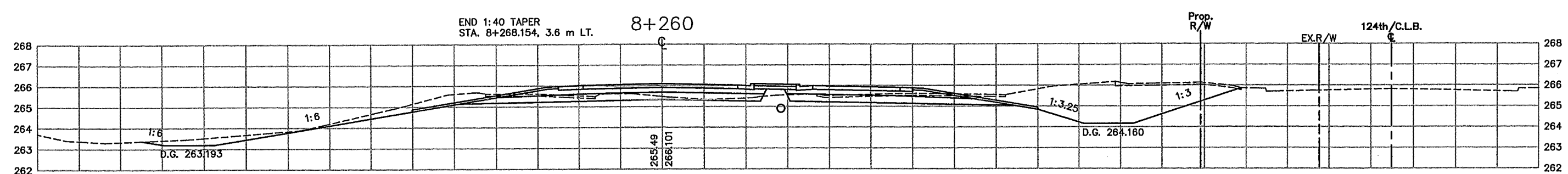
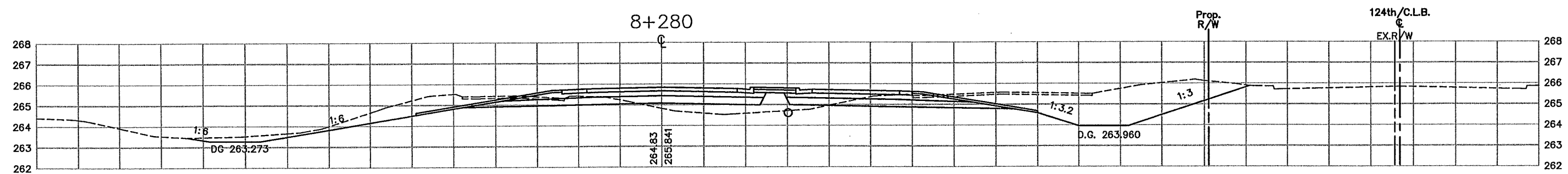
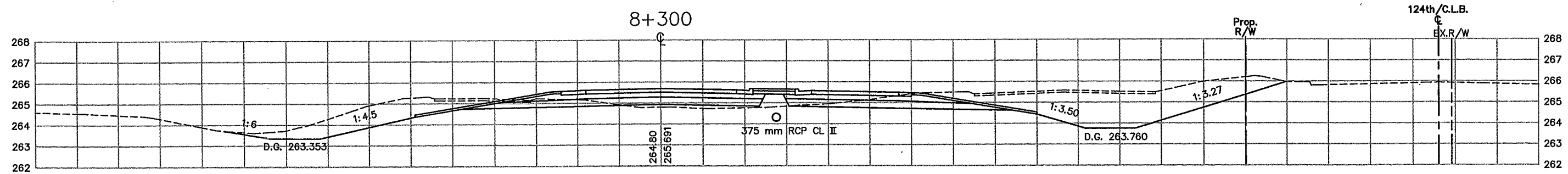
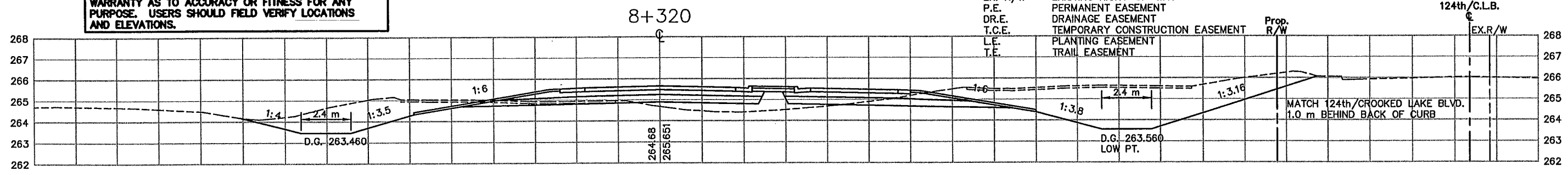
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

3 OF 13
 SHEET NO.
503
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



PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\0-xsbdr.dwg

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



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
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	

4 OF 13

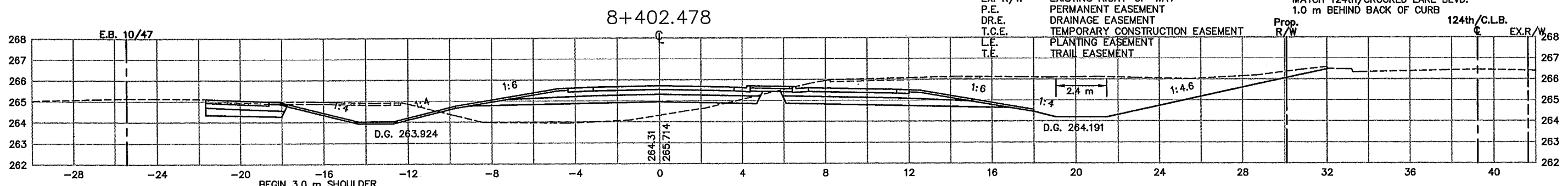
SHEET NO.
504

539

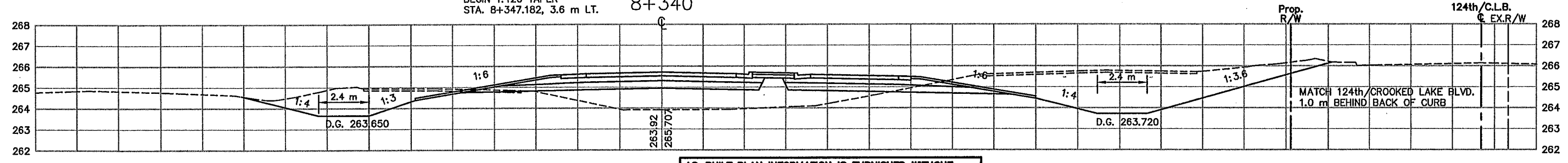
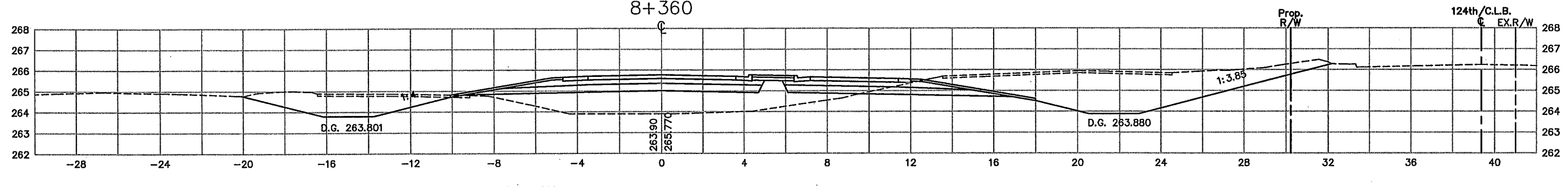
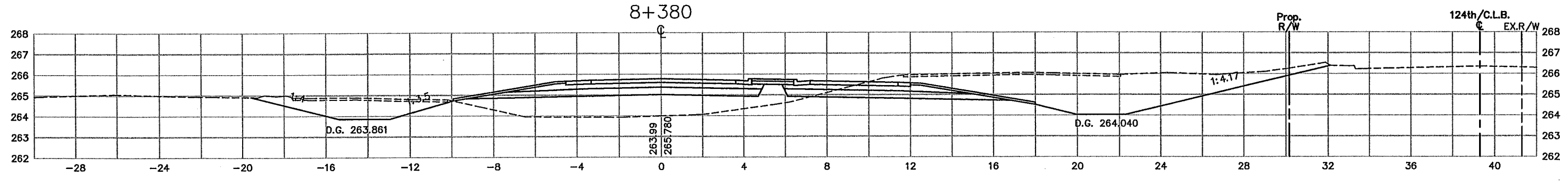
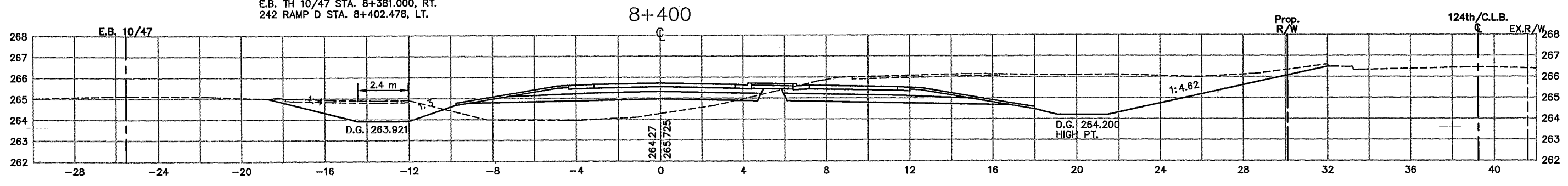
PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\1D-xsbdr.dwg

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



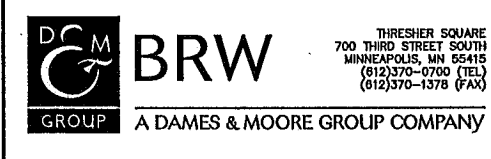
BEGIN 3.0 m SHOULDER
E.B. TH 10/47 STA. 8+381.000, RT.
242 RAMP D STA. 8+402.478, LT.



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	4/12/00	MOD. REG. #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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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

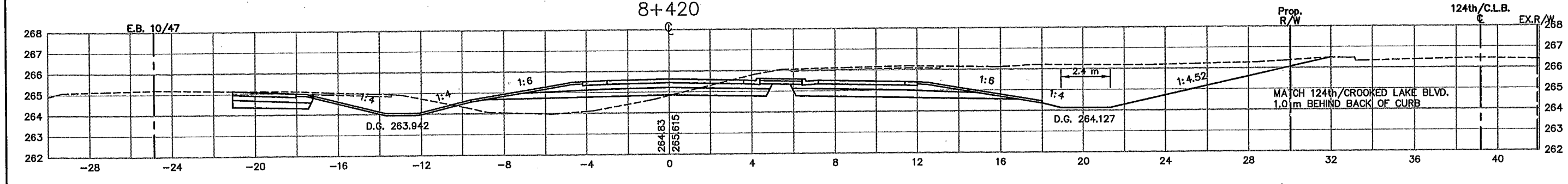
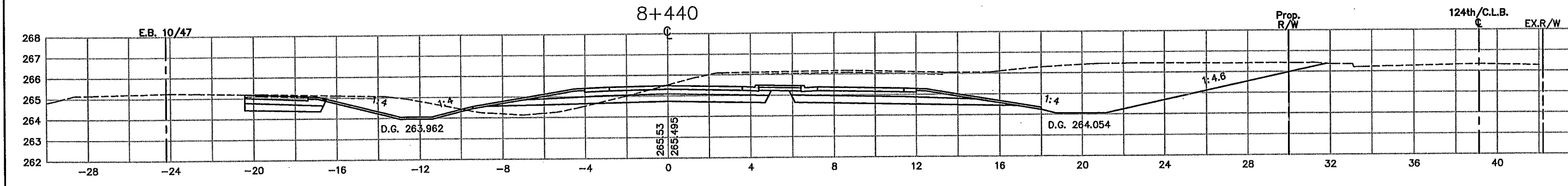
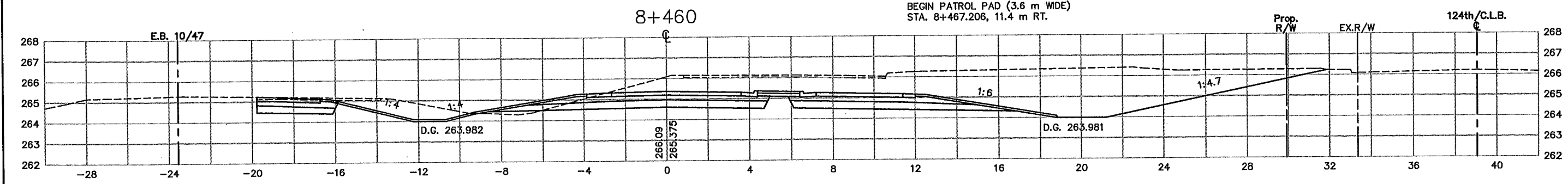
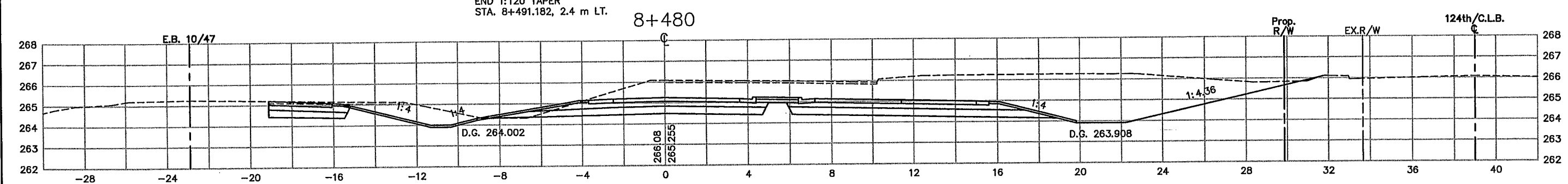
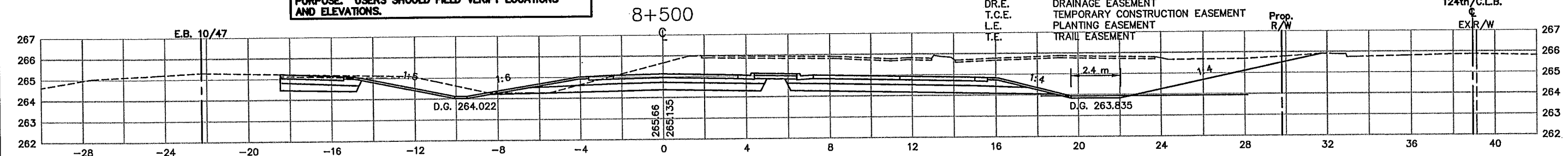
S.P. 0212-40 (T.H.242=242)
 S.A.P. 02 - 614 - 19
 S.A.P. 02 - 618 - 24
 S.P. 114 - 010 - 11
 S.A.P. 114 - 020 - 19
 S.A.P. 114 - 136 - 02
 S.A.P. 114 - 127 - 02

5 OF 13
 SHEET NO.
505
539

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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.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



PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\D-xsbdr.dwg

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.

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

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

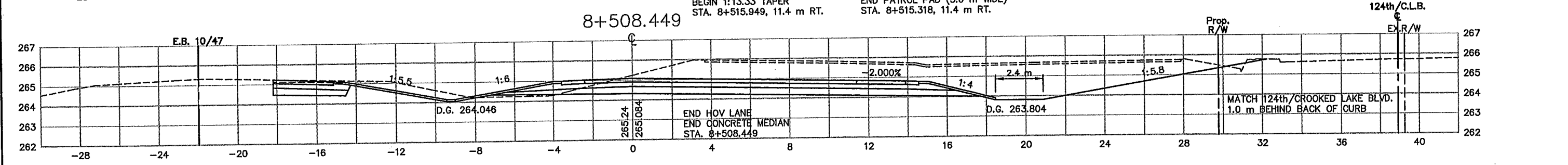
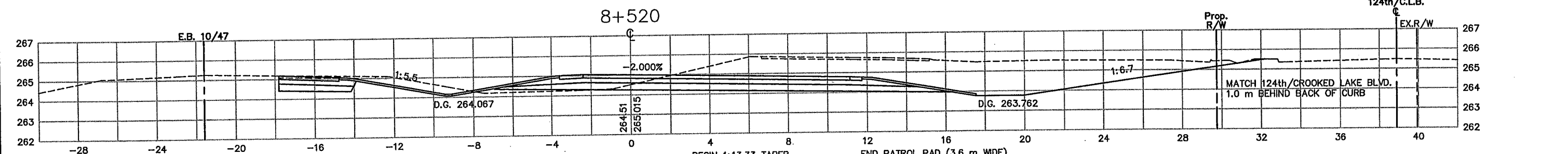
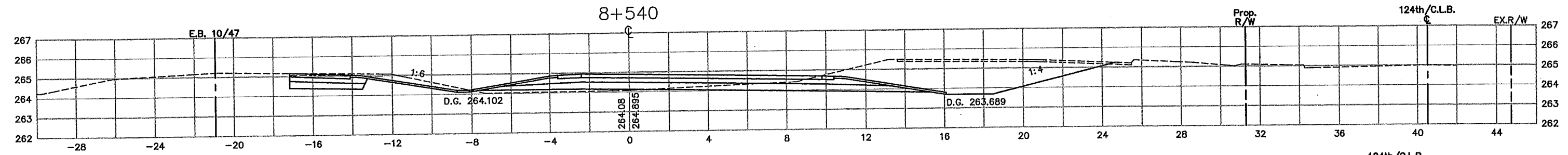
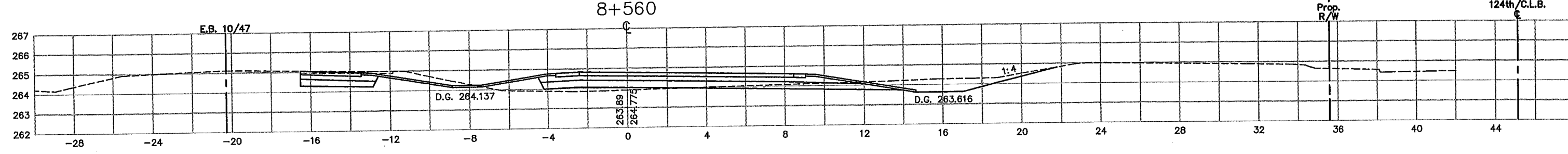
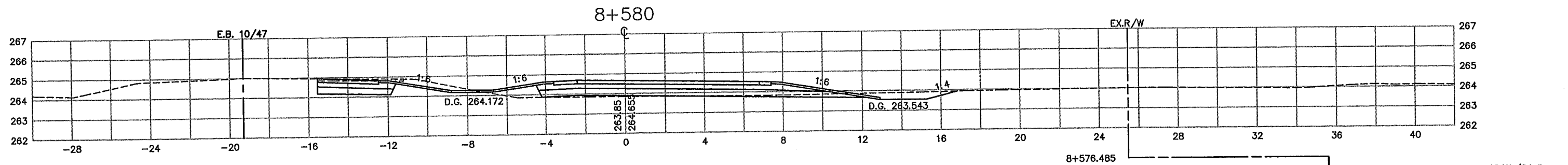
MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D
 CROSS SECTIONS
 STATION 8+420.000 TO STATION 8+500.000
 CITY PROJECT 98-20

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

6 OF 13
 SHEET NO.
506
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



PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\1D-xsbdr.dwg

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
 CHKD. BY:
KPK/PBD
 DWG. NAME:
D-XSBDR
 DATE:
NOVEMBER 5, 1999



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Kevin P. Kiehl
 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**

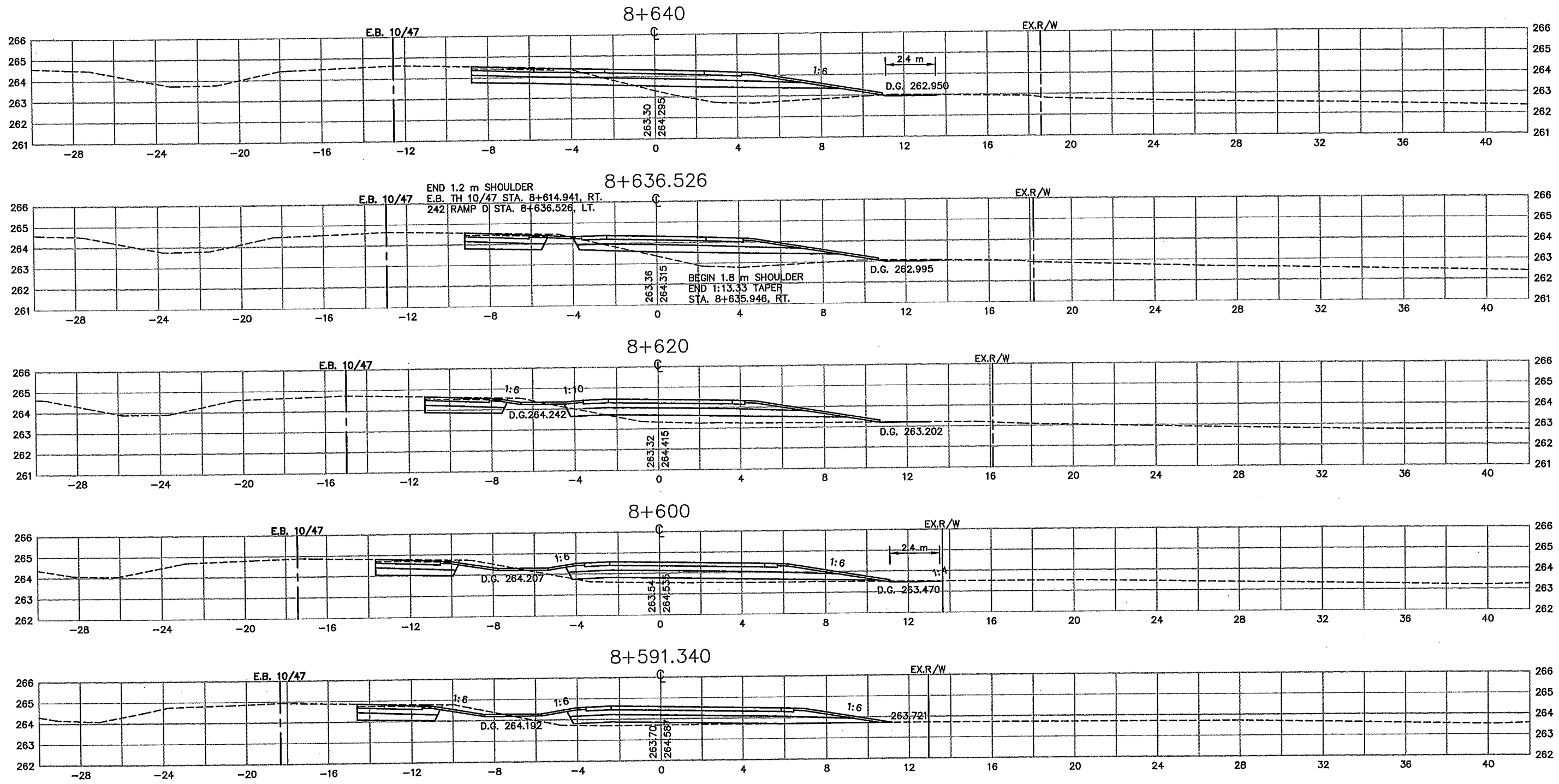
S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
507
539

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

PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLAN\1-D-xsbdr.dwg



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.



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Kevin P. Kullb
 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

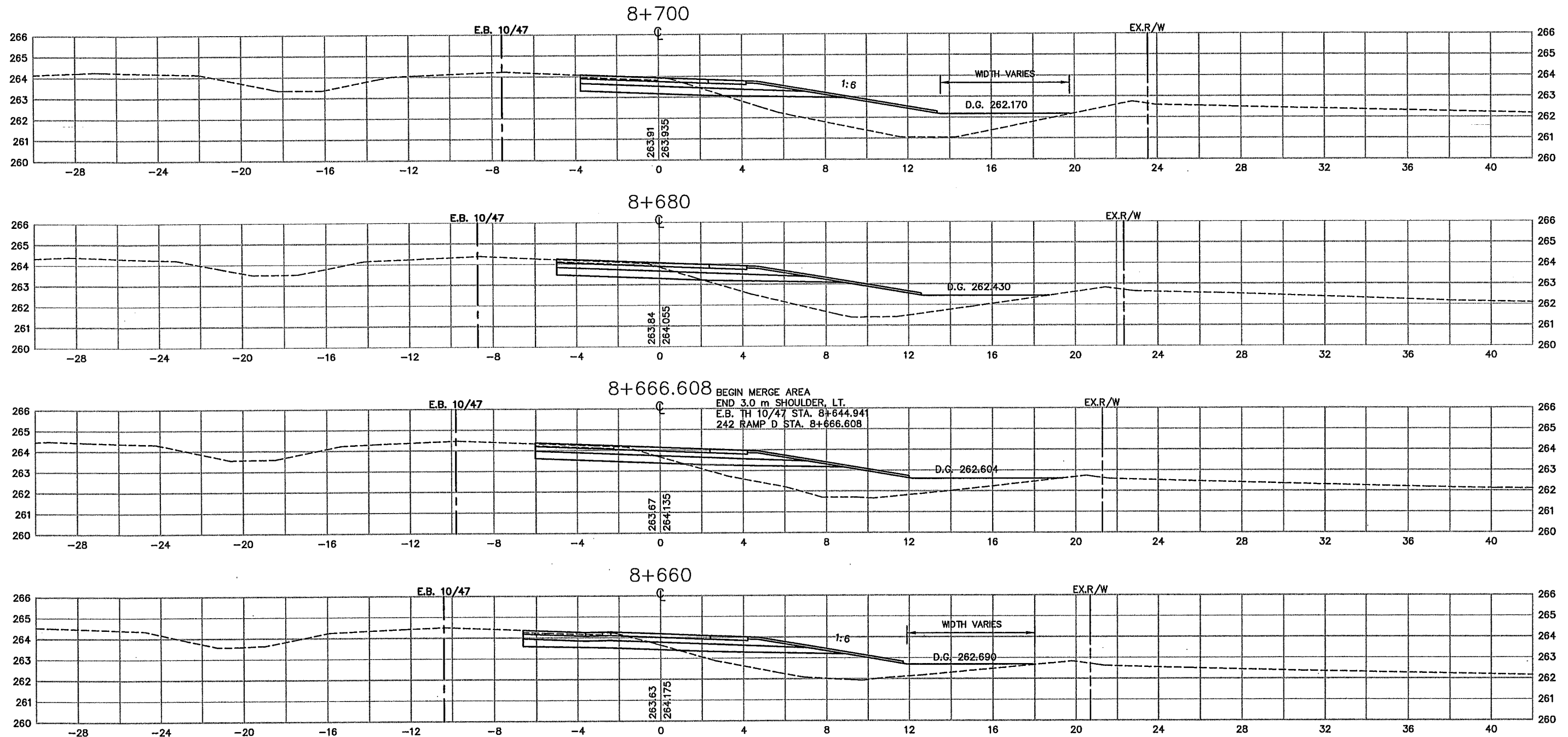
S.P. 0212-40 (T.H.242=242)	S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24	S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19	S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02	

SHEET NO.
 508
 539

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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



PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\33889E\33889E.dwg

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/PBD	DWG. NAME: D-XSBD
DATE: NOVEMBER 5, 1999	



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Kevin P. Kiehl
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+680.000 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

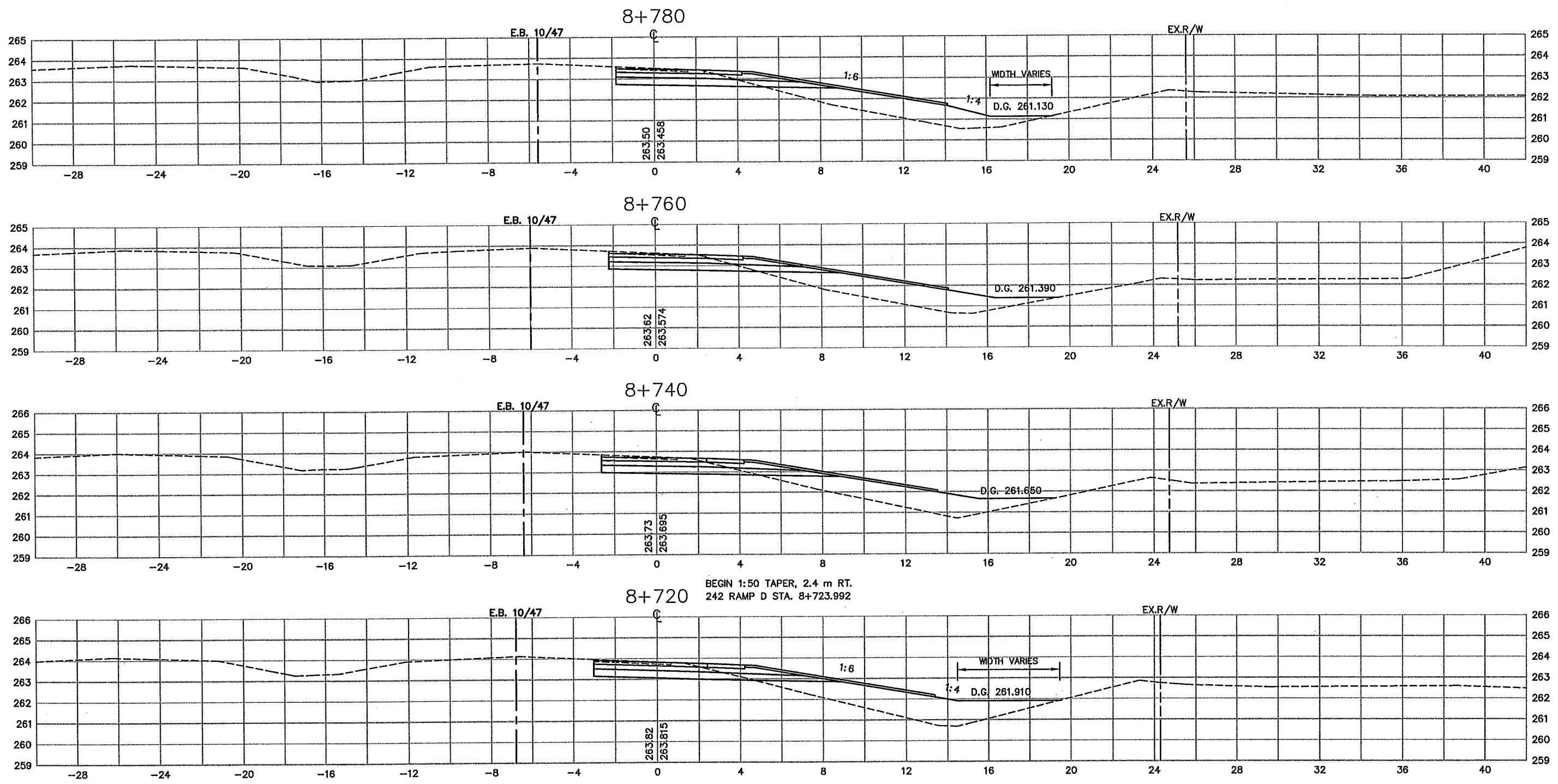
SHEET NO.
509

539

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

PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\1D-xsbdr.dwg



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/PBD	DWG. NAME: D-XSBDR
DATE: NOVEMBER 5, 1999	

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BRW
 A DAMES & MOORE GROUP COMPANY
 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. Kull
 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
 P.E. PERMANENT EASEMENT
 DR.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

8+880

8+860

8+840

8+820

8+800

E.B. 10/47

E.B. 10/47

E.B. 10/47

E.B. 10/47

E.B. 10/47

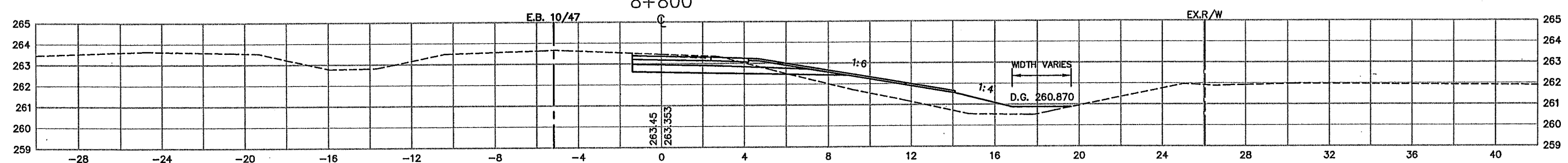
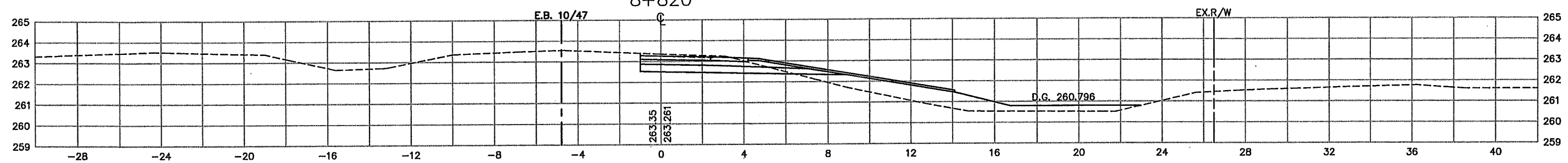
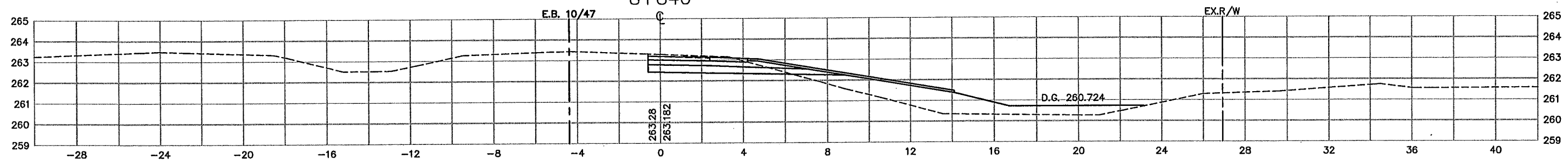
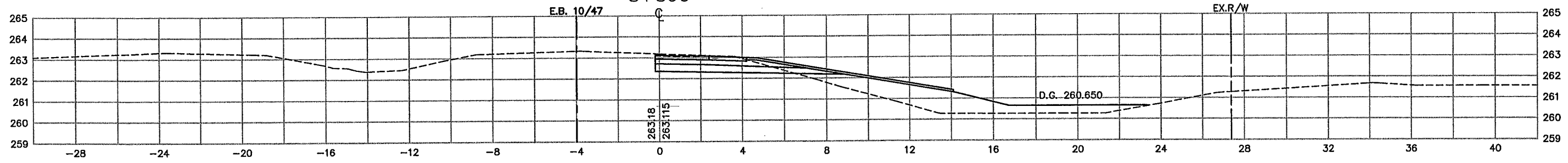
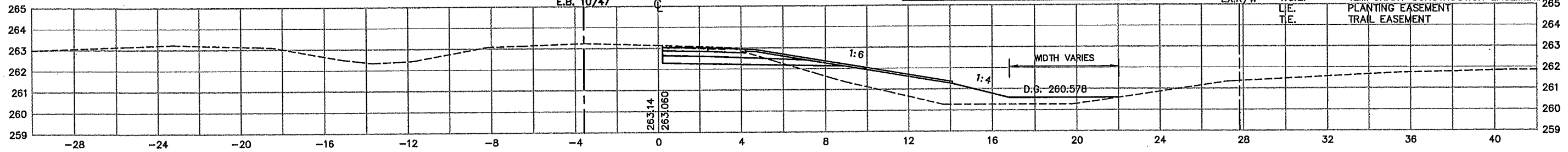
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EX.R/W

EX.R/W

EX.R/W

EX.R/W



PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\D-xsbdr.dwg

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/PBD	DWG. NAME: D-XSBD	
DATE: NOVEMBER 5, 1999		

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Kevin P. Xie
 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**

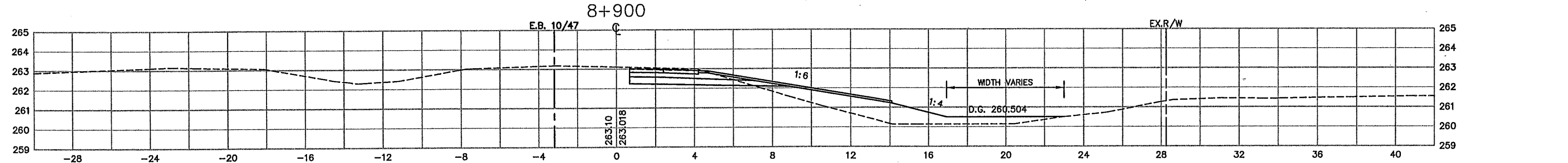
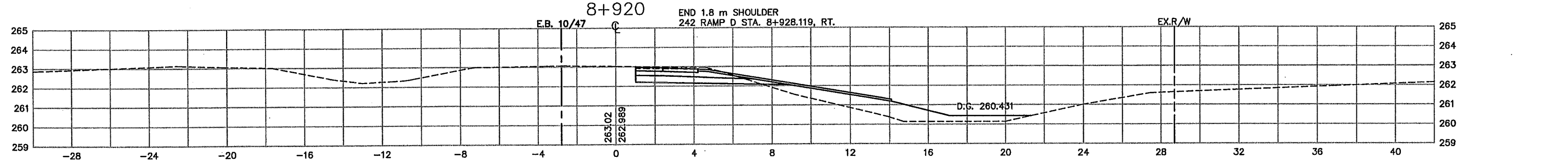
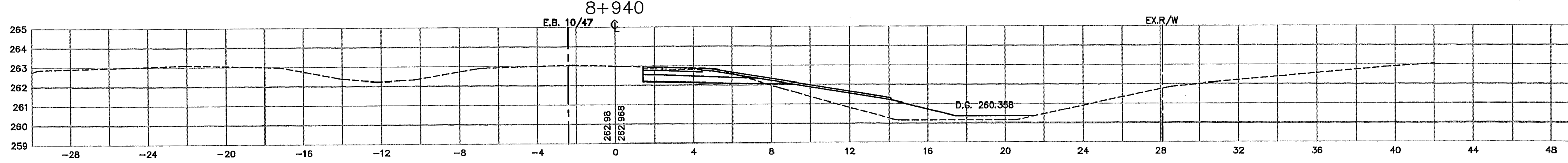
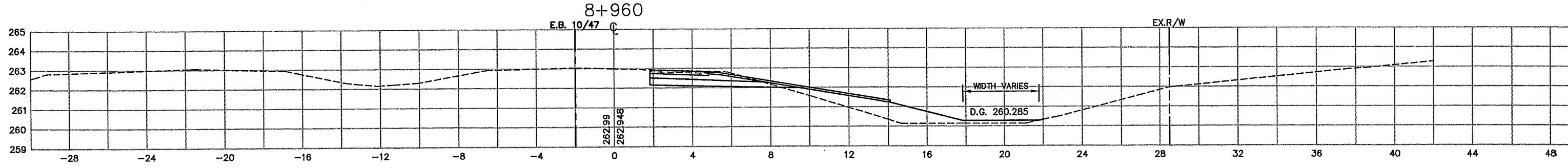
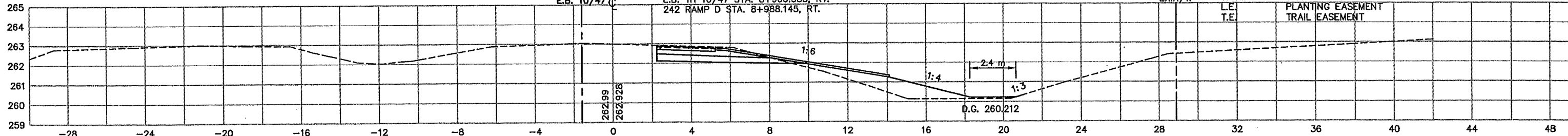
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

11 OF 13
 SHEET NO.
511
539

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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 D.R.E. DRAINAGE EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

BEGIN 3.0 m SHOULDER
 END 1:50 TAPER
 E.B. TH 10/47 STA. 8+966.588, RT.
 242 RAMP D STA. 8+988.145, RT.



PLOT DATE: Apr 11, 2004 2:57pm J
 DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\D-xsbdr.dwg

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-XSBD
 DATE:
 NOVEMBER 5, 1999



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Kevin P. Kiehl
 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

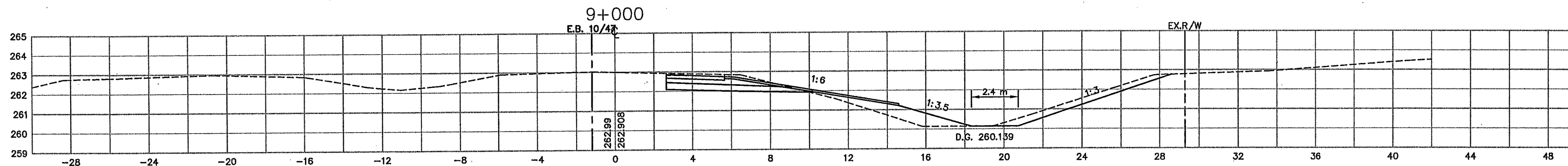
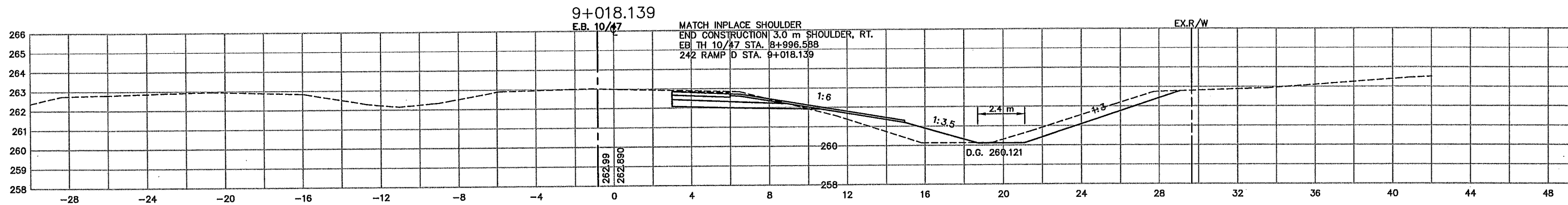
12 OF 13
 SHEET NO.
512
539

PLOT DATE: Apr 11, 2:57pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\1D-xsbdr.dwg

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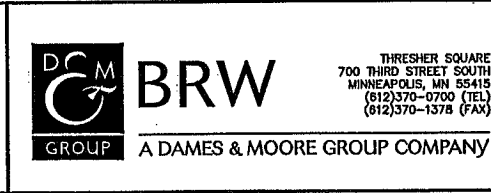
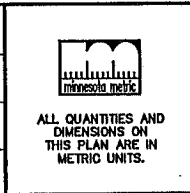
LEGEND:

- 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



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/PBD	DWG. NAME: D-XSBD
DATE: NOVEMBER 5, 1999	



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Kevin P. Kiehl

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

**MAIN STREET/T.H. 242 RECONSTRUCTION
242 RAMP D MERGE AREA**

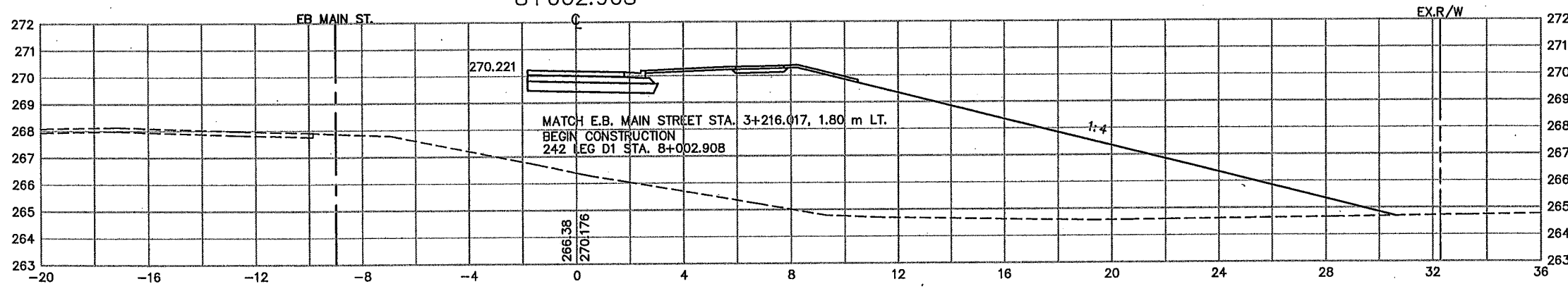
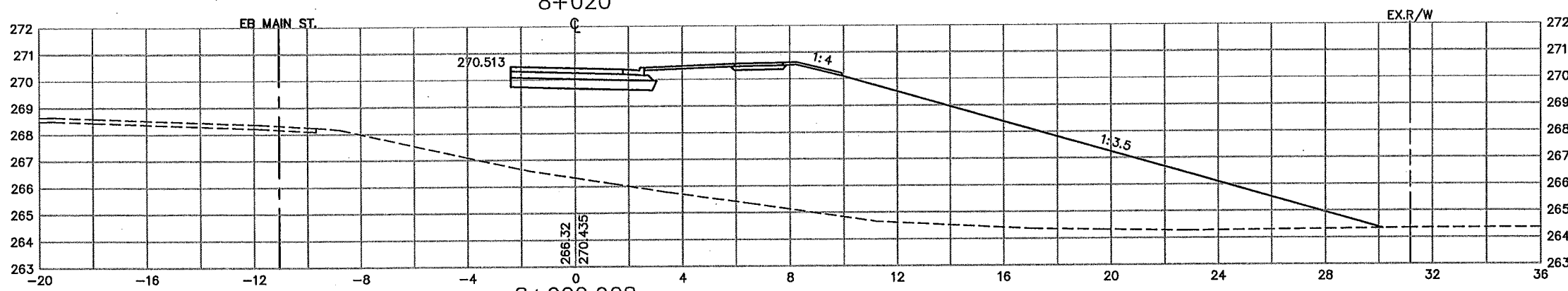
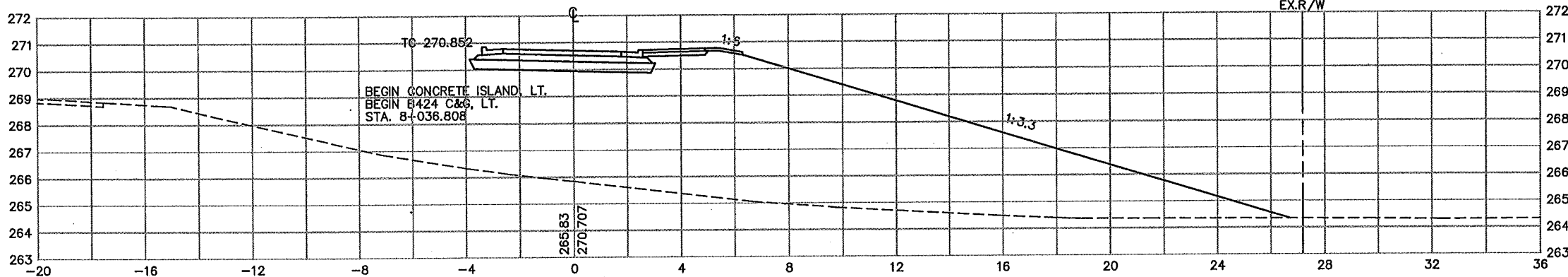
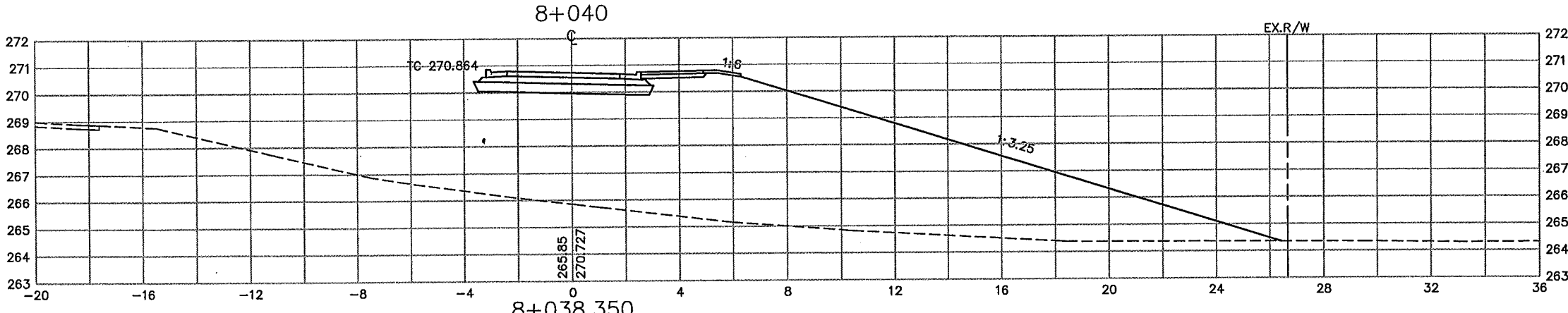
CROSS SECTIONS
STATION 9+000.000 TO STATION 9+018.139

CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	
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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.
513
539

PLOT DATE: Dec 22, 1999 6:38pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLAN\T1-D1-xbdr.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

CHKD. BY: KPK/PBD
DWG. NAME: D1-XSBDR

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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Kevin P. Kullb

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

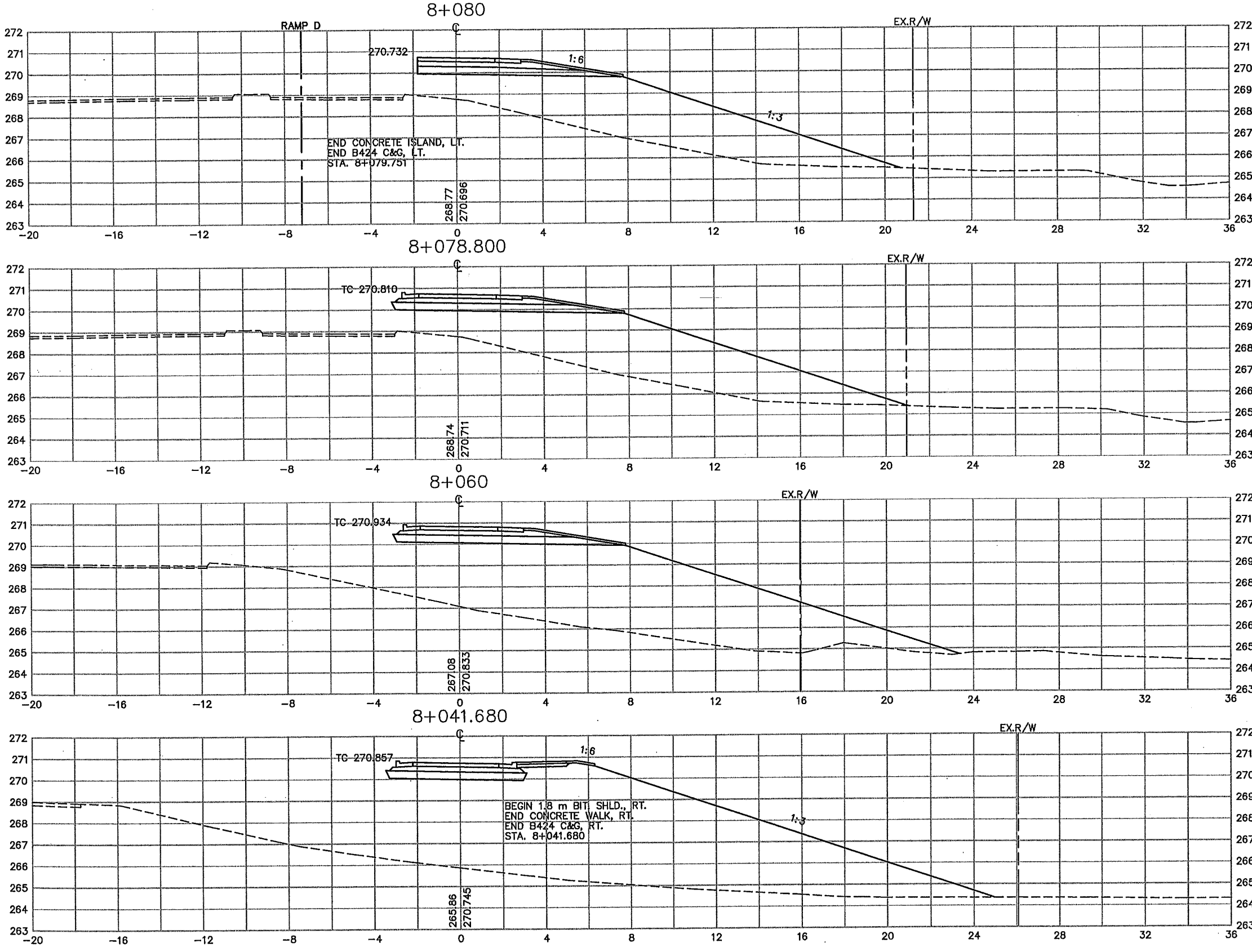
CITY PROJECT 98-20

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

SHEET NO.
514

539

PLOT DATE: Dec 22, 1999 6:38pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\PLAN\T\1-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

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/PBD DWG. NAME: D1-XSBDR

DATE:
NOVEMBER 5, 1999



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Kevin P. Kullb

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

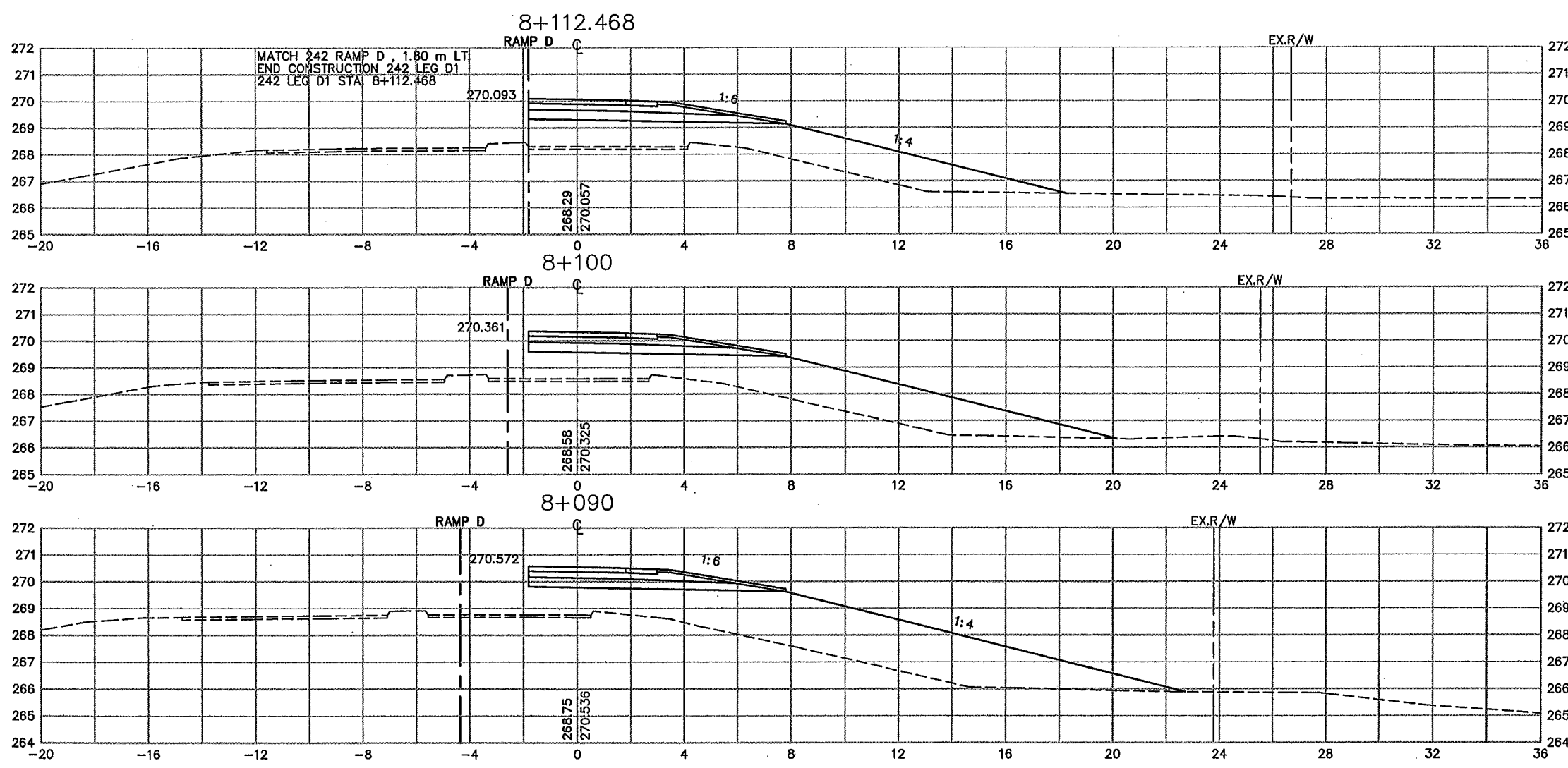
S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

2 OF 3

SHEET NO.
515

539

PLOT DATE: Dec 22 99 6:38pm DISK FILE NAME: (14.01) R:\33889\33889028\33889E\XSEC\PLAN\T\1-D1-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

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/PBD	DWG. NAME: D1-XSBDR
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. Kullb

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

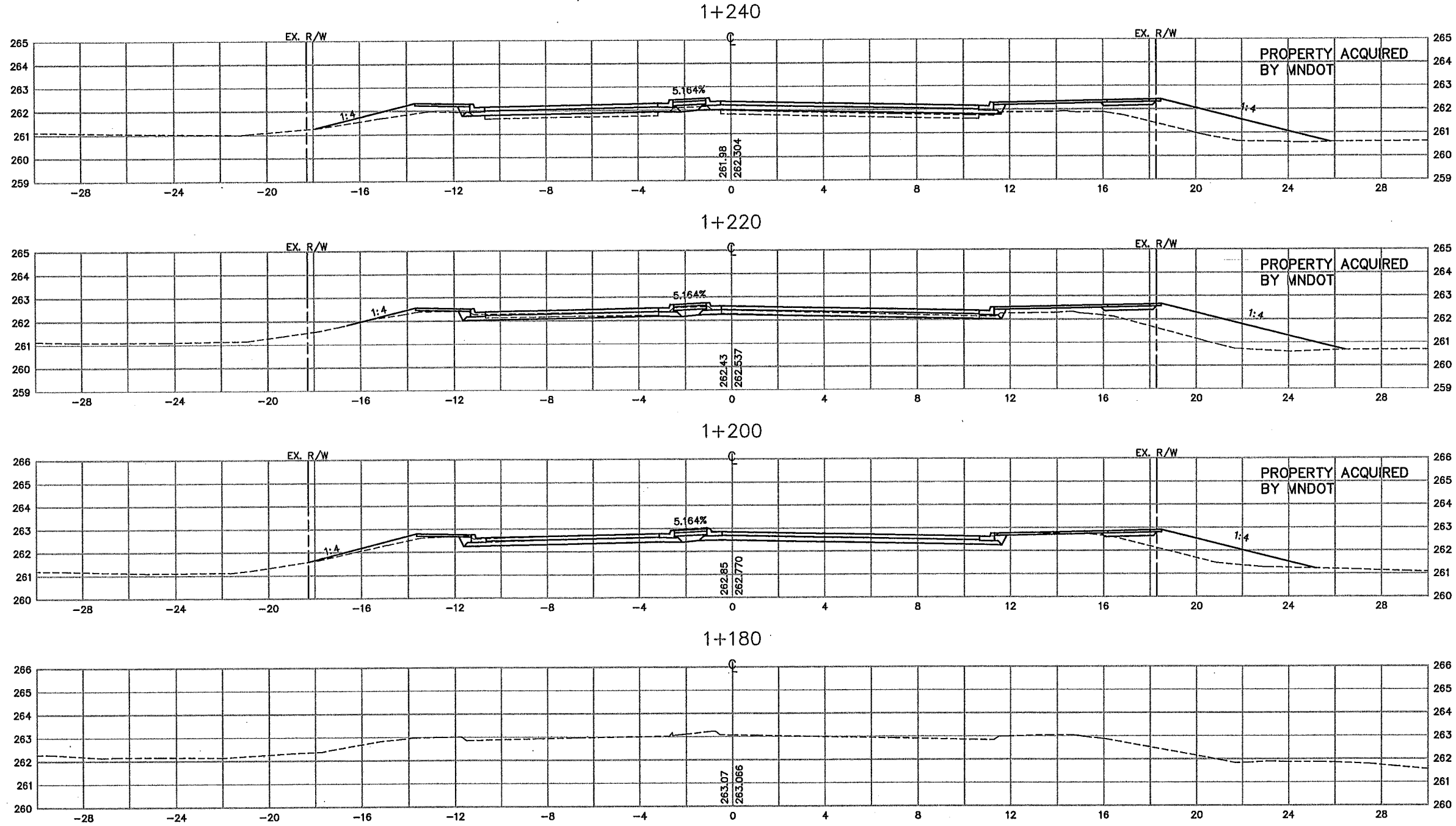
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S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

3 OF 3

SHEET NO.
516

539

PLOT DATE: Aug 02, 2004 3:35pm DISK FILE NAME: (15.06) R:\33889\33889028\33889W\XSEC\plan\COONXS-1.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

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

DESIGN FILE:
33889028

DRAWN BY: PMJ DESIGN BY: KPK

CHKD. BY: PBD DWG. NAME: COONXS-1

DATE:
NOVEMBER 5, 1999



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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**

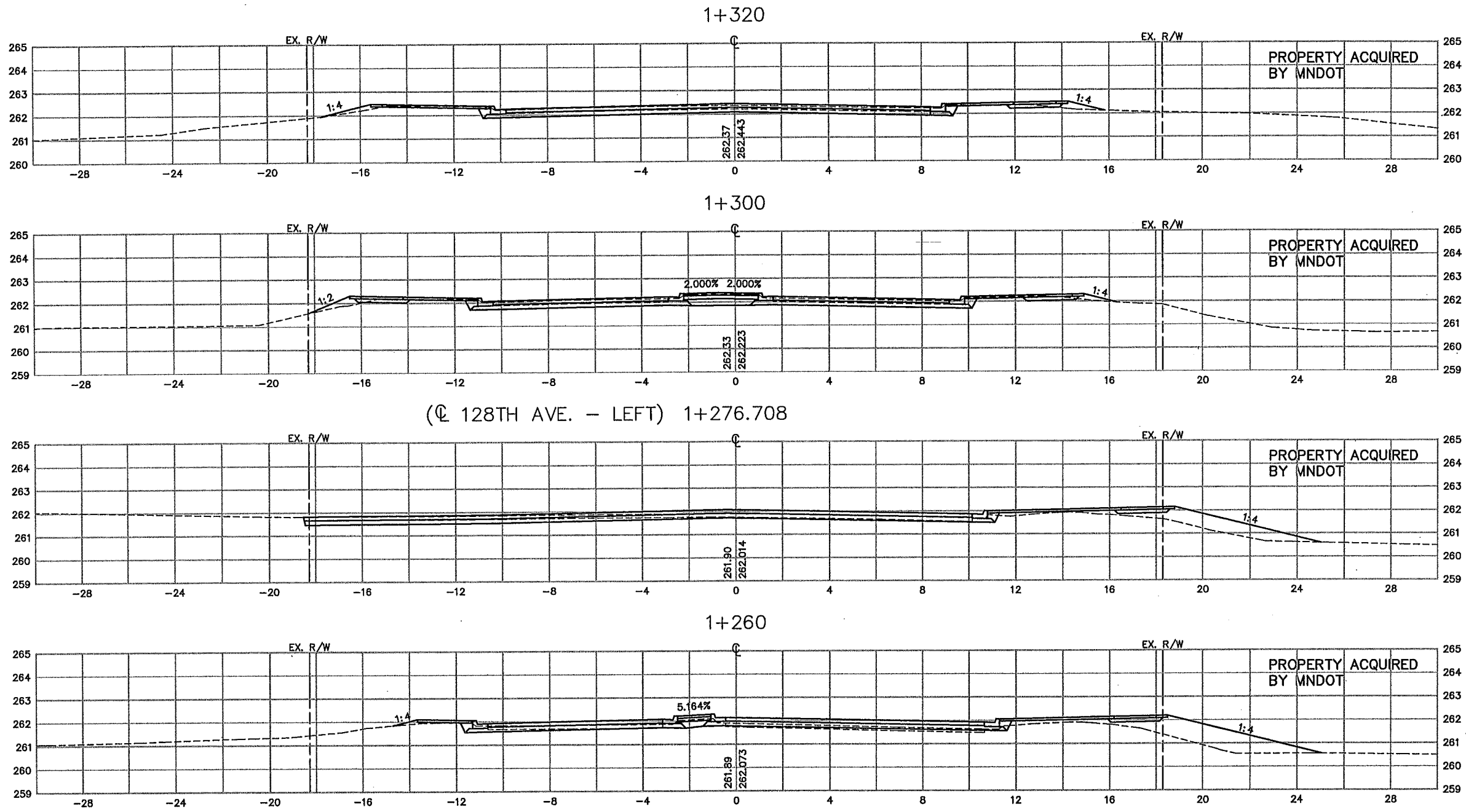
CITY PROJECT 98-20

S.P.	T.H. 242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.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: Jan 03, 2000 10:50am DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan_sht\COONXS-2.dwg



(☉ 128TH AVE. - LEFT) 1+276.708

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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



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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

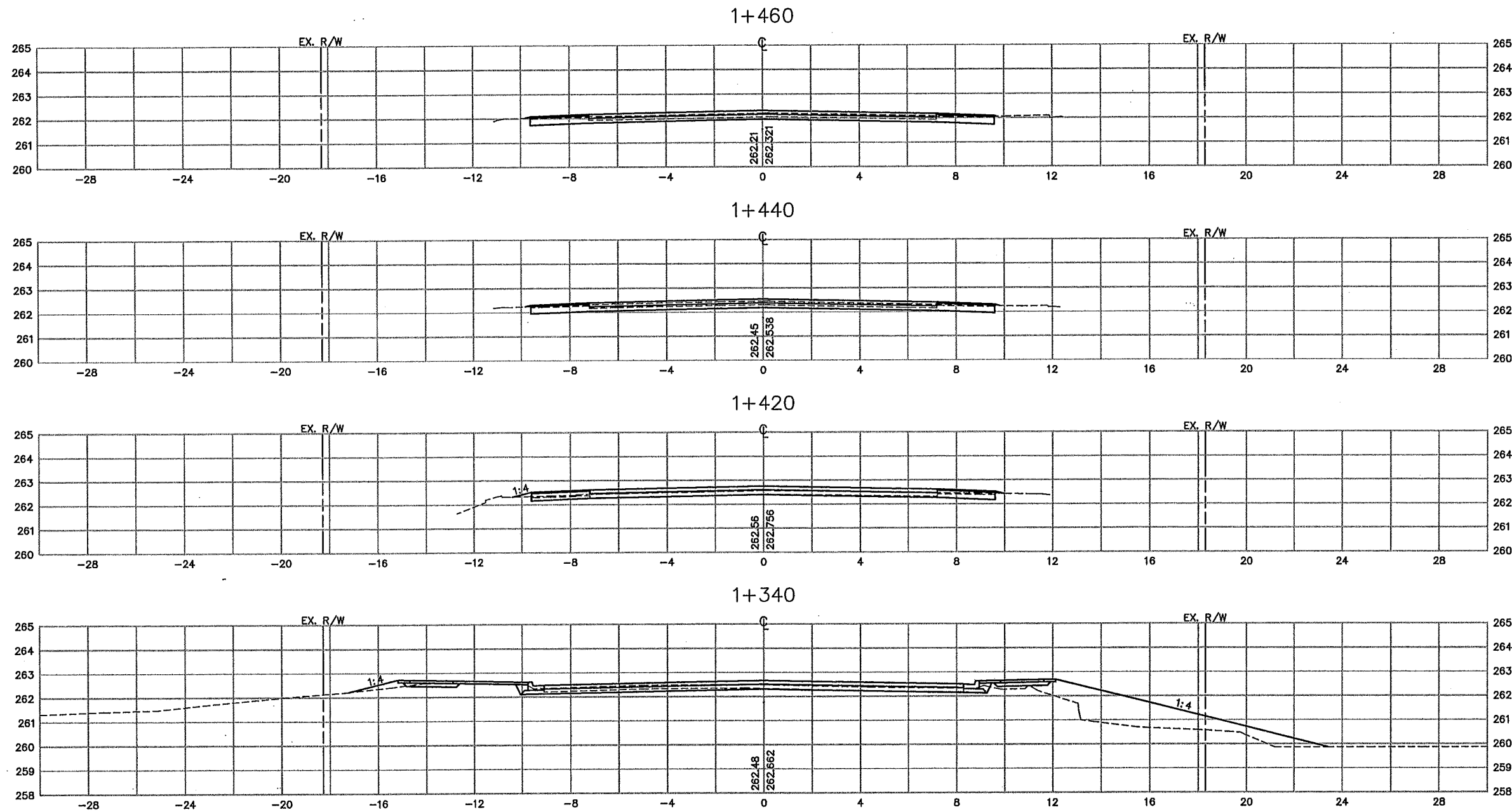
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

**MAIN STREET/T.H. 242 RECONSTRUCTION
 COON CREEK BOULEVARD
 CROSS SECTIONS
 STATION 1+260.000 TO STATION 1+320.000**
 CITY PROJECT 98-20

S.P.	T.H. 242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.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\XSEC\pldn_snt\COONXS-3.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

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

DESIGN FILE: 33889028	DRAWN BY: PMJ	DESIGN BY: KPK
CHKD. BY: PBD	DWG. NAME: COONXS-3	
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. _____

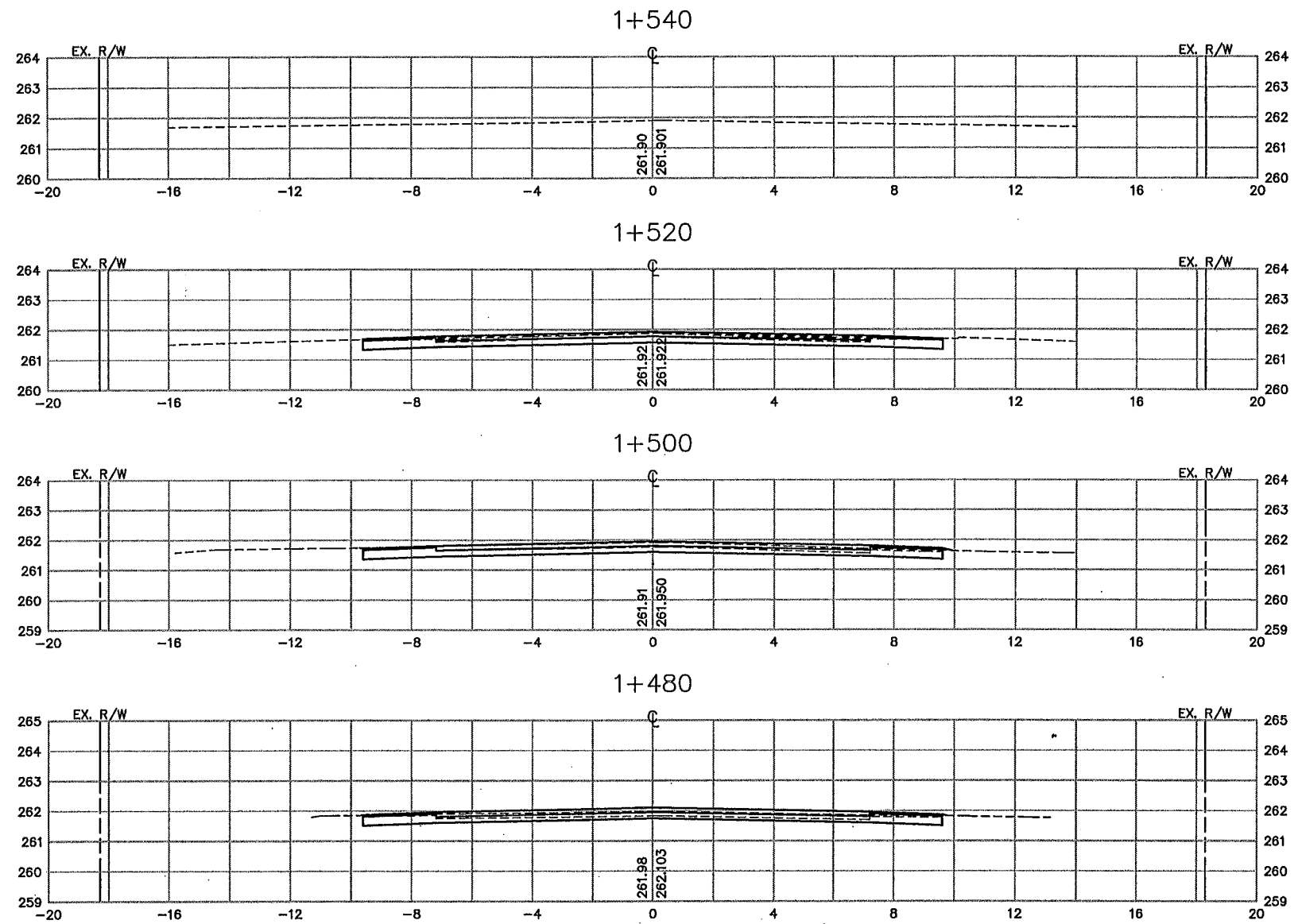
**MAIN STREET/T.H. 242 RECONSTRUCTION
COON CREEK BOULEVARD
CROSS SECTIONS
STATION 1+340.000 TO STATION 1+460.000**

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 05 10:51am 10:51am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan\COONXS-4.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

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

DESIGN FILE:
33889028
 DRAWN BY: PMJ
 DESIGN BY: KPK
 CHKD. BY: PBD
 DWG. NAME: COONXS-4
 DATE: NOVEMBER 5, 1999



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



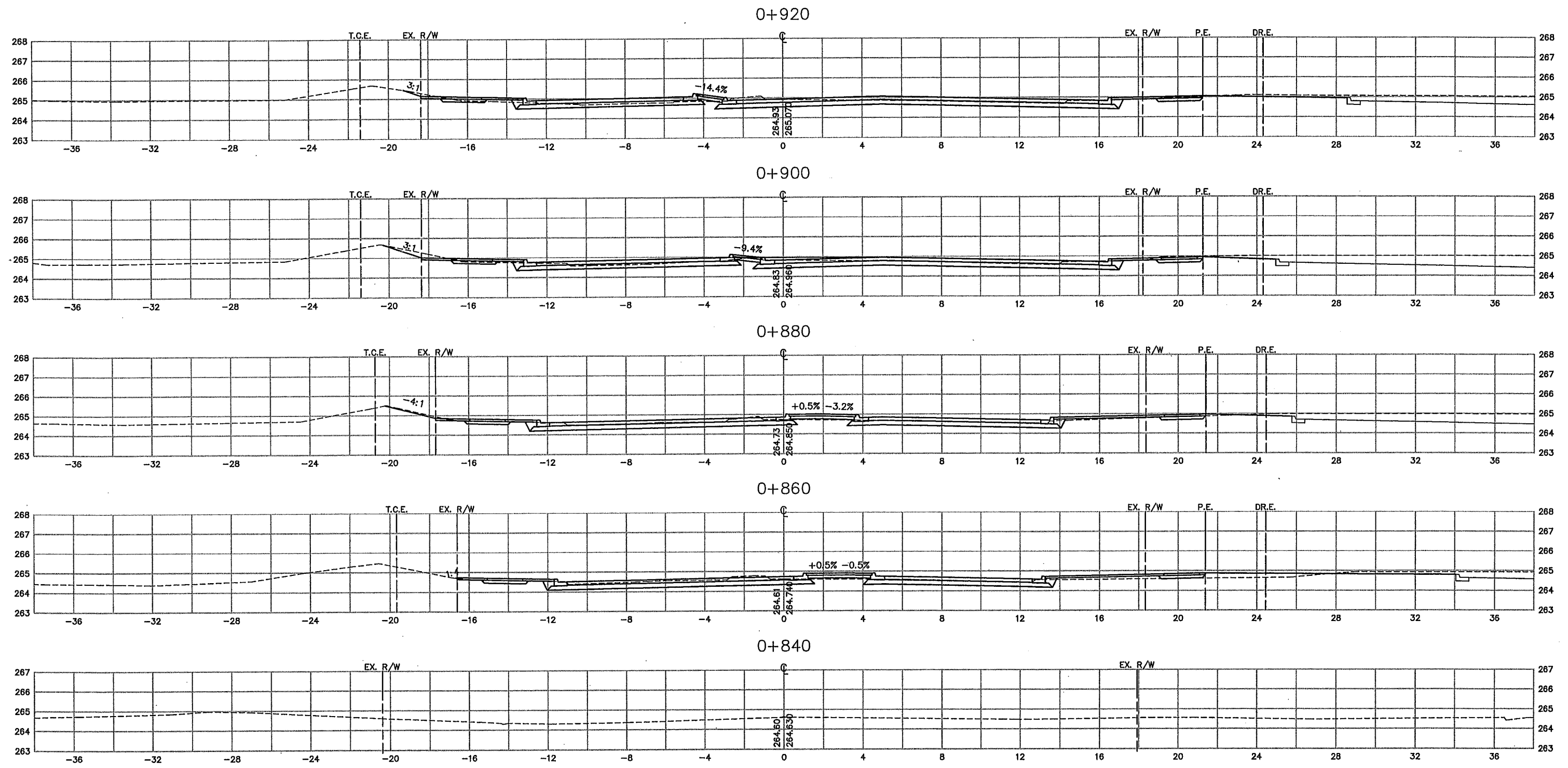
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

**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: Jun 05, 2000 11:06am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_snt\dalxs-01.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
 DR.E. DRAINAGE & UTILITY EASEMENT

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLL	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
 CHKD. BY: PBD DWG. NAME: DALXS-01
 DATE: NOVEMBER 5, 1999



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



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
 NORTHALE BOULEVARD
 CROSS SECTIONS
 STATION 0+840.000 TO STATION 0+920.000**

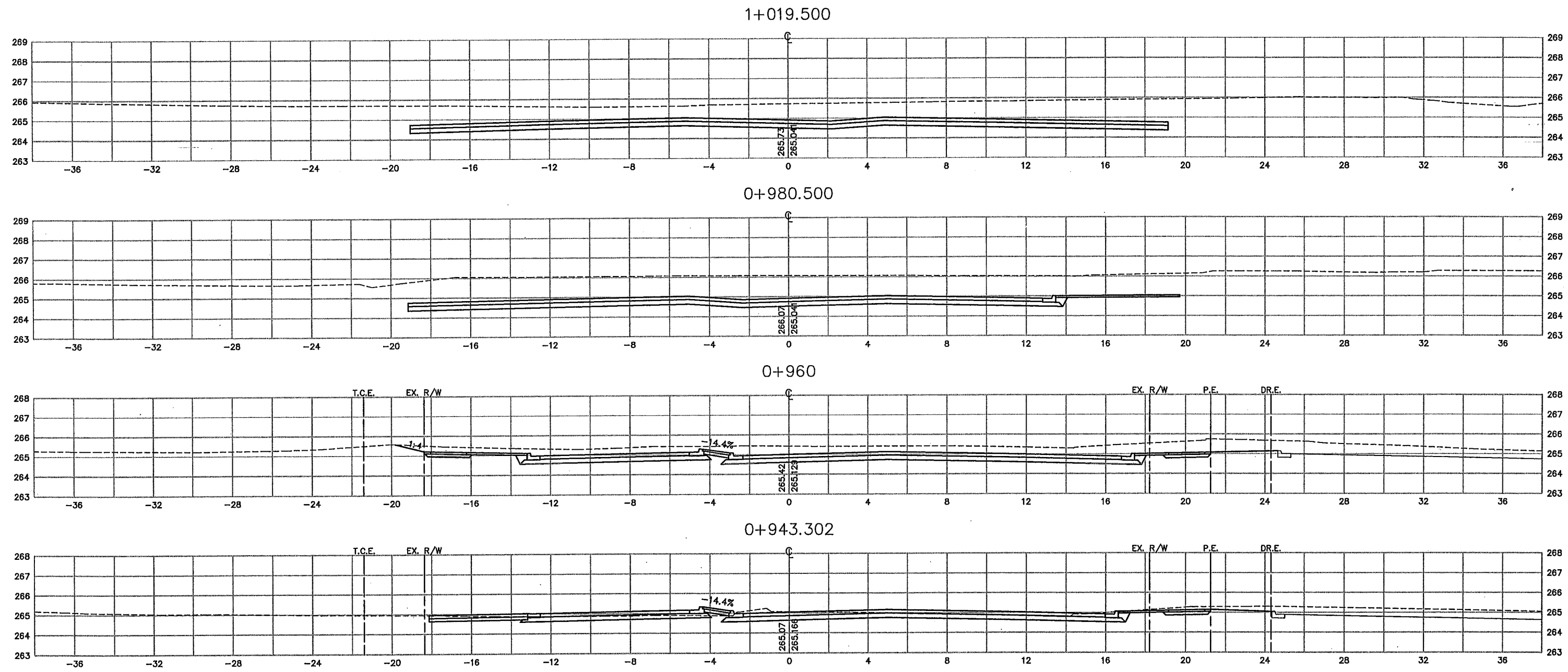
CITY PROJECT 98-20

S.P.	T.H. 242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.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 11:10am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_snt\DALXS-02.dwg

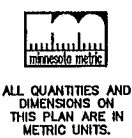


AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 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	J.L.	8/1/00	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
 CHKD. BY:
PBD
 DWG. NAME:
DALXS-02
 DATE:
NOVEMBER 5, 1999



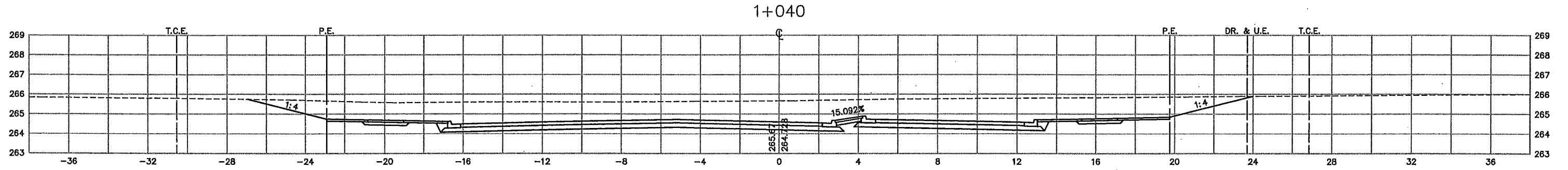
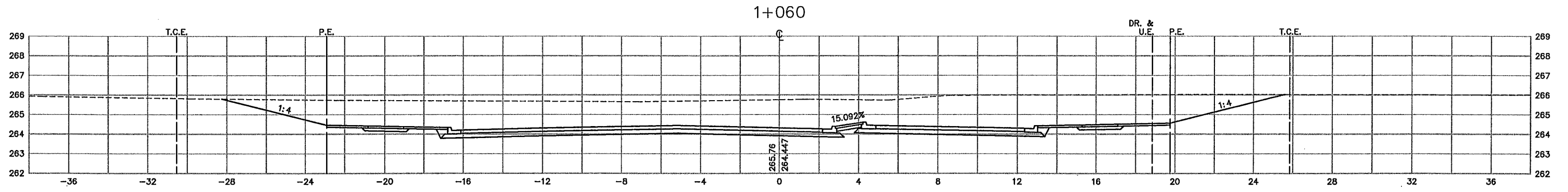
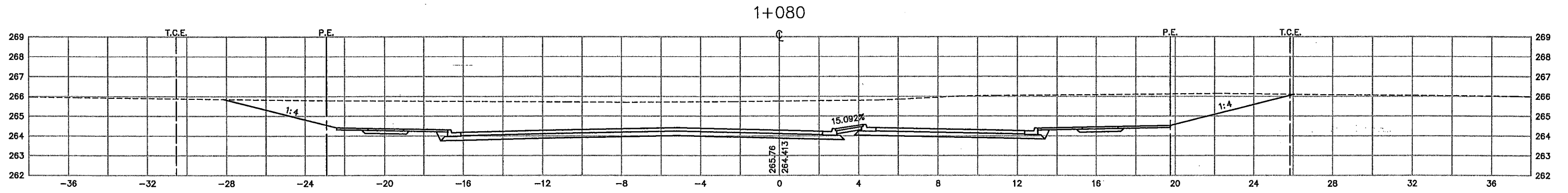
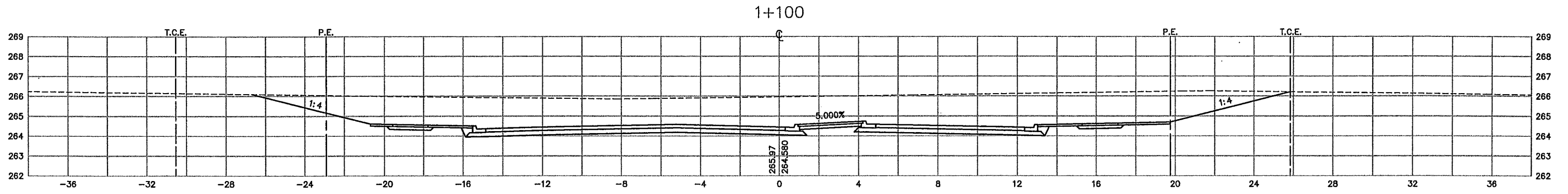
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

**MAIN STREET/T.H. 242 RECONSTRUCTION
 NORTHDALÉ 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: Jan 03, 2000 10:55am DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan_sit\DALxs-03.dwg

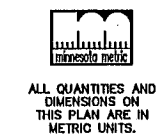


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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT
 DR. & U.E. DRAINAGE AND UTILITY EASEMENT

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

DESIGN FILE:
33889028
 DRAWN BY: PMJ
 DESIGN BY: KPK
 CHKD. BY: PBD
 DWG. NAME: DALXS-03
 DATE: NOVEMBER 5, 1999



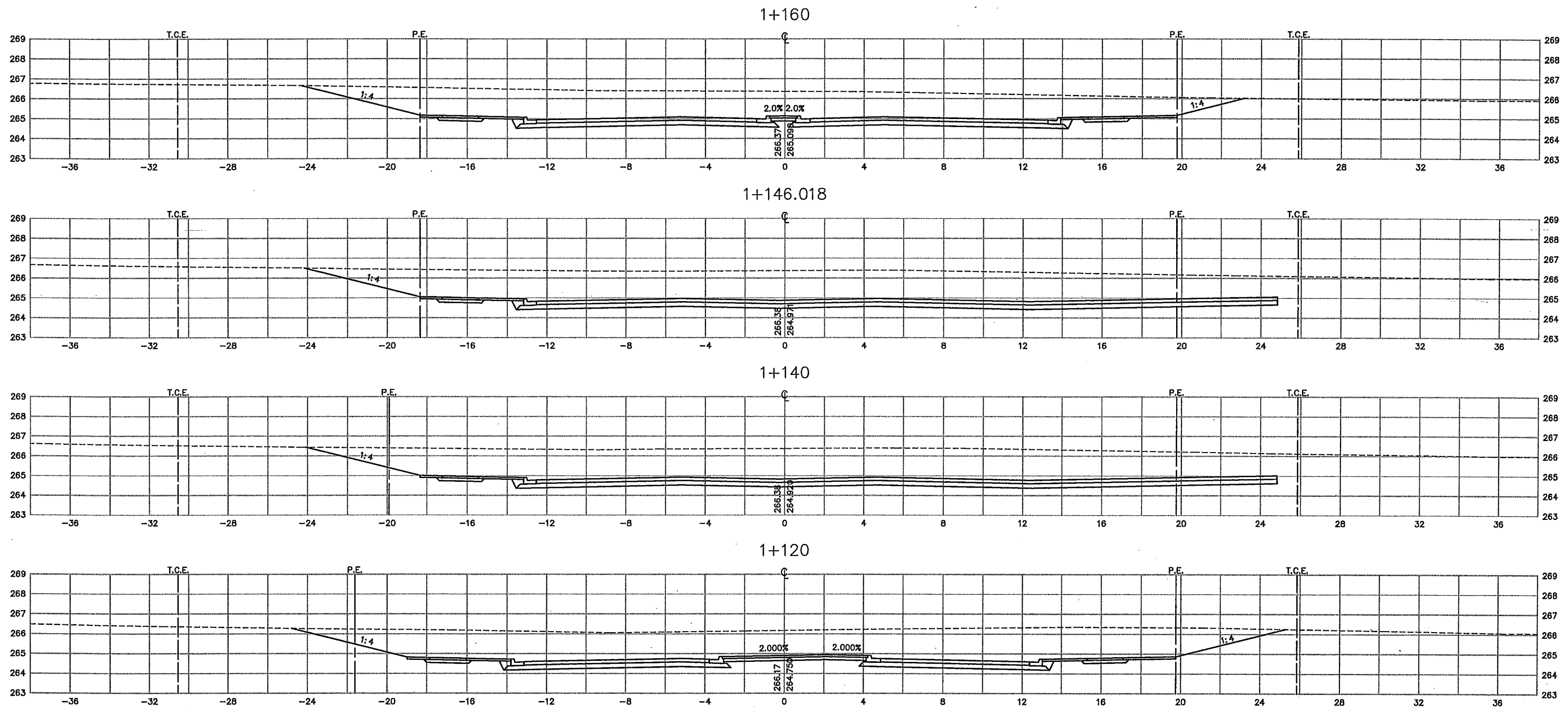
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

**MAIN STREET/T.H. 242 RECONSTRUCTION
 NORTHDALE BOULEVARD
 CROSS SECTIONS
 STATION 1+000.000 TO STATION 1+060.000**
 CITY PROJECT 98-20

S.P.	T.H. 242=242
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.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\XSEC\plan_srit\DALXS-04.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

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

DESIGN FILE:
33889028
 DRAWN BY: PMJ
 DESIGN BY: KPK
 CHKD. BY: PBD
 DWG. NAME: DALXS-04
 DATE: NOVEMBER 5, 1999



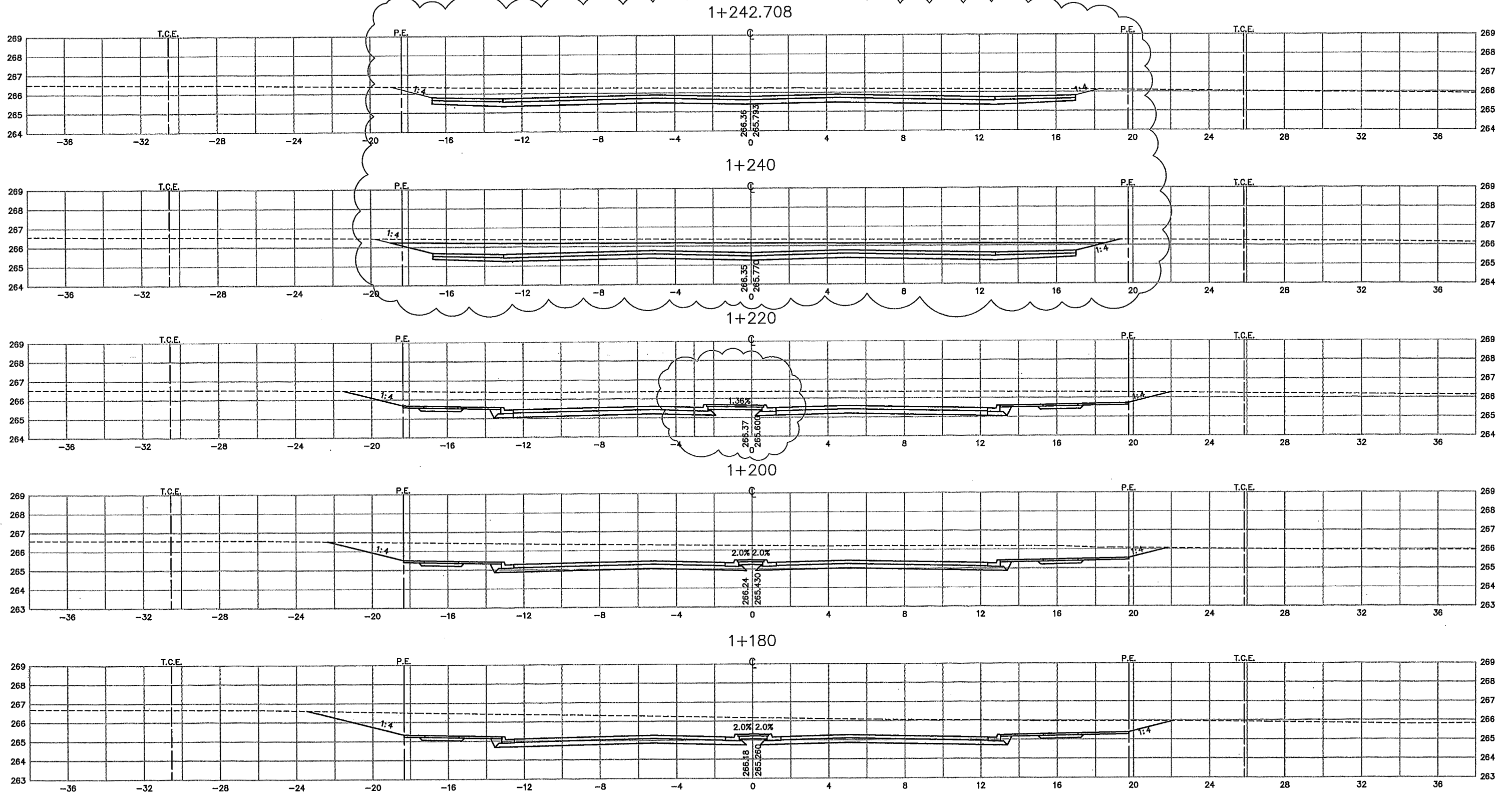
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
 DATE: _____ MINN. REG. NO. _____

**MAIN STREET/T.H. 242 RECONSTRUCTION
 NORTHDALÉ 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: Oct 02, 2000 4:07pm DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_snt\dalxs-05.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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JL	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

CHKD. BY: PBD DWG. NAME: DALXS-05

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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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

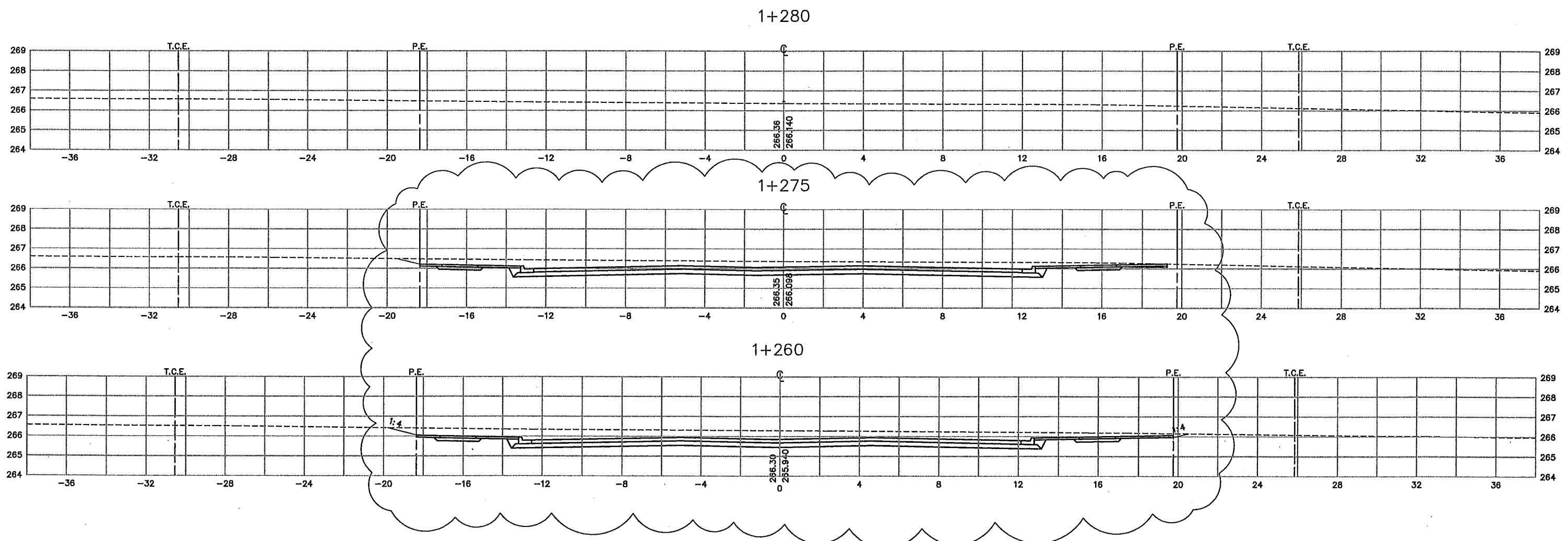
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.

525

539

PLOT DATE: Oct 02, 2000 4:17pm DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan_srt\DALXS-06.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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	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

CHKD. BY: PBD DWG. NAME: DALXS-06

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
 NORTHDALÉ BOULEVARD
 CROSS SECTIONS
 STATION 1+260.000 TO STATION 1+300.000**

CITY PROJECT 98-20

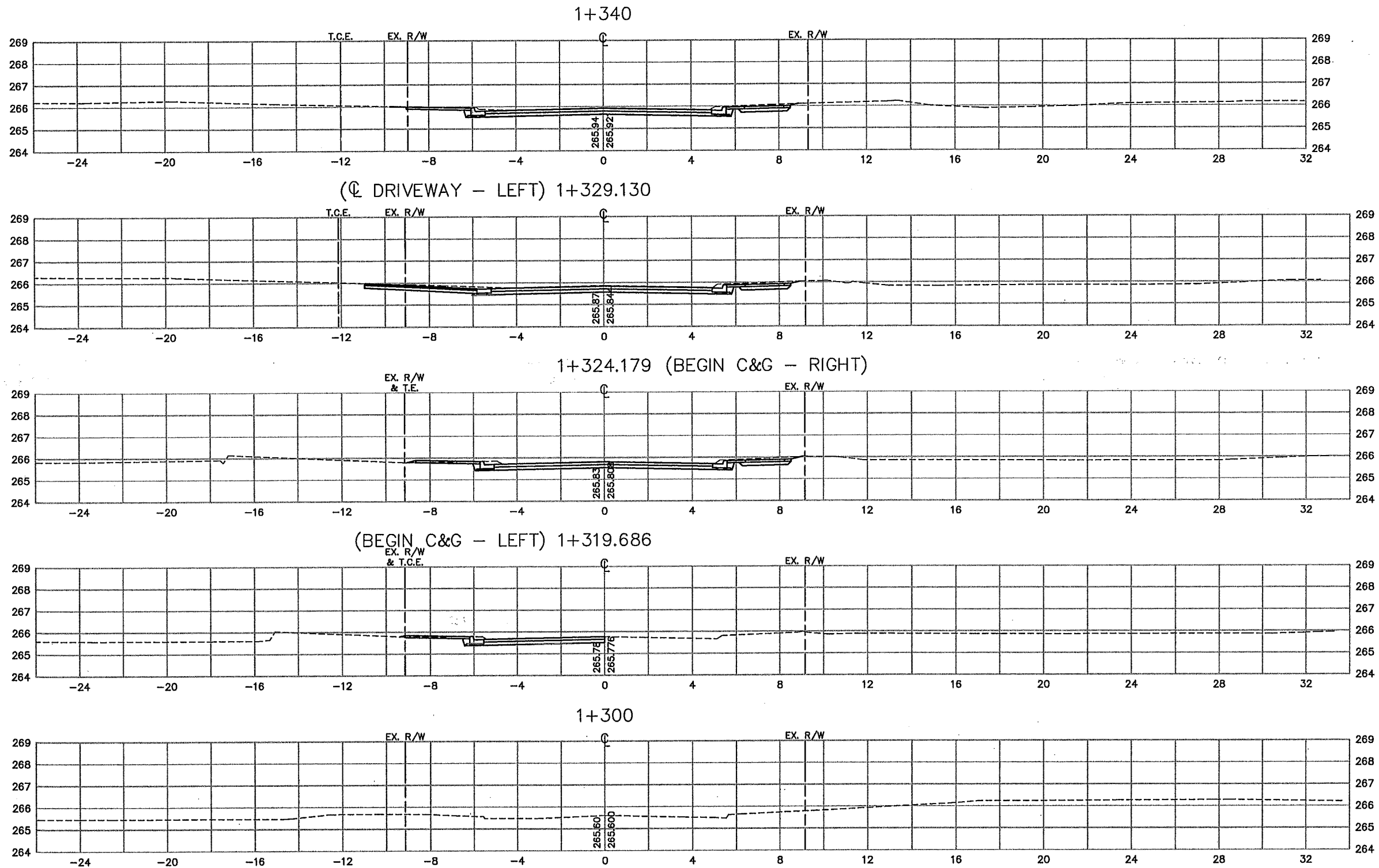
S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

6 OF 6

SHEET NO.
526

539

PLOT DATE: Aug 09 9:53am DISK FILE NAME: (1.01) R: \33889\33889028\33889W\XSEC\plan\124xs-01.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

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

DESIGN FILE:
33889028
 DRAWN BY: PMJ
 DESIGN BY: KPK
 CHKD. BY: PBD
 DWG. NAME: 124XS-01
 DATE: NOVEMBER 5, 1999



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



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. _____

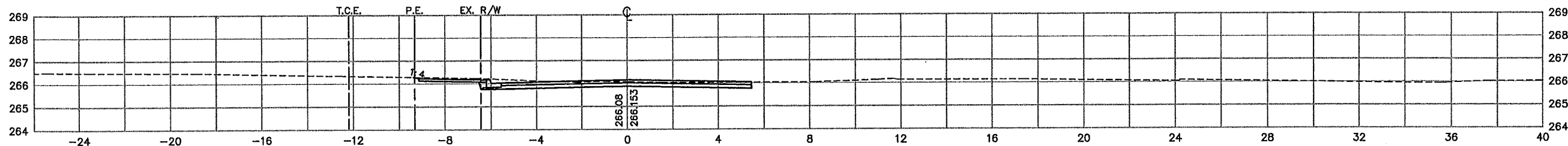
MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVENUE
 CROSS SECTIONS
 STATION 1+300.000 TO STATION 1+340.000
 CITY PROJECT 98-20

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

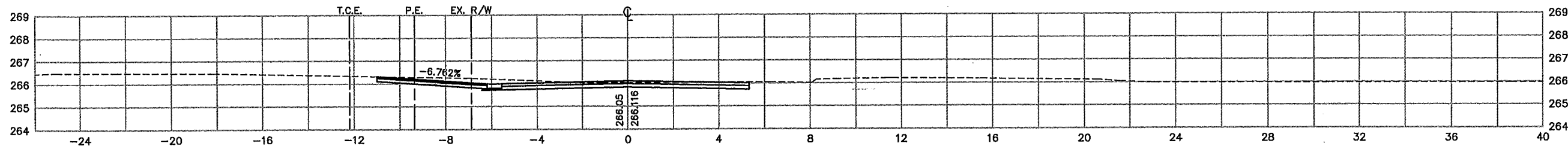
SHEET NO.
527
539

PLOT DATE: Aug 09, 2000 10:00am DISK FILE NAME: (14.01) R:\33889\33889028\33889W\XSEC\plan_snt\124xs-02.dwg

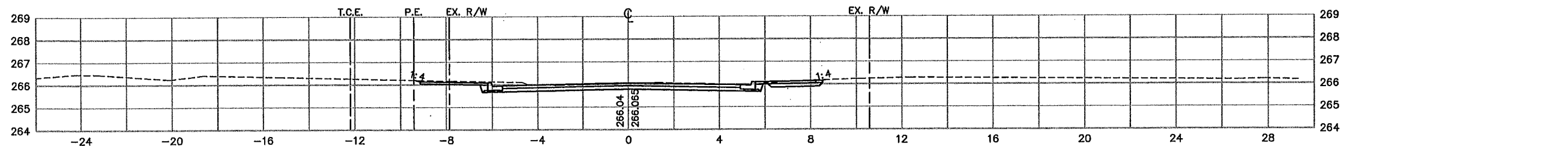
1+372.329 (☉ HEATHER ST. - RIGHT)



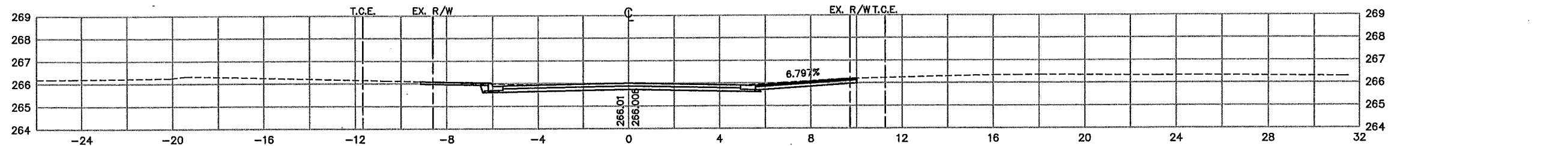
(☉ DRIVEWAY - LEFT) 1+367.221



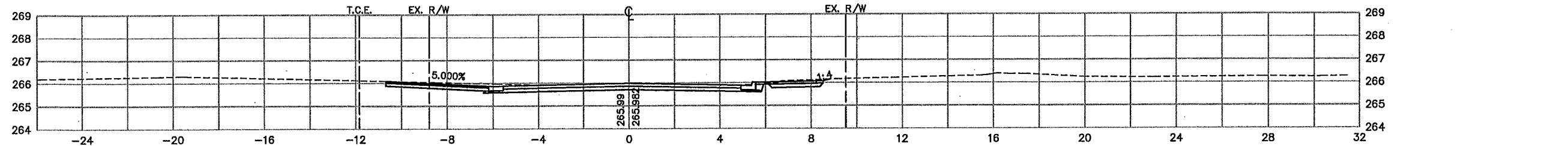
1+360



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. PAINTING EASEMENT
- T.E. TRAIL EASEMENT

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

DESIGN FILE: 33889028	DESIGN BY: KPK
DRAWN BY: PMJ	DWG. NAME: 124XS-02
CHKD. BY: PBD	DATE: NOVEMBER 5, 1999



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



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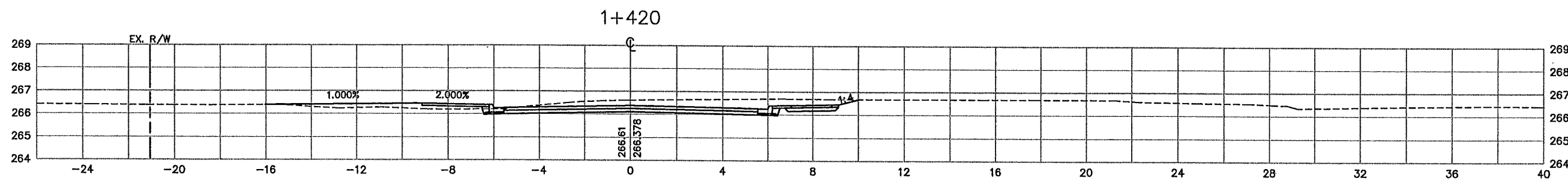
DATE: _____ MINN. REG. NO. _____

MAIN STREET/T.H. 242 RECONSTRUCTION
124TH AVENUE
 CROSS SECTIONS
 STATION 1+348.394 TO STATION 1+372.329
 CITY PROJECT 98-20

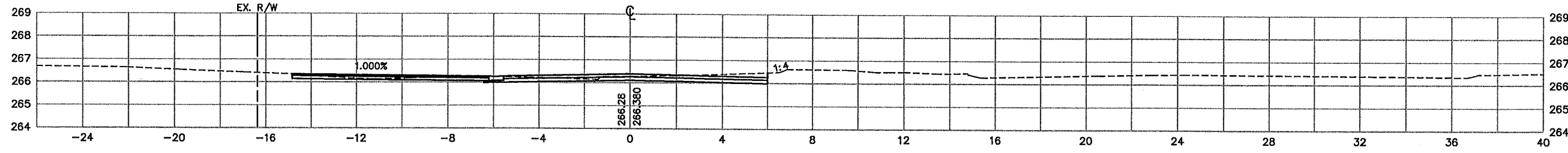
S.P. 0212-40 (T.H.242=242)
S.A.P. 02 - 614 - 19
S.A.P. 02 - 618 - 24
S.P. 114 - 010 - 11
S.A.P. 114 - 020 - 19
S.A.P. 114 - 136 - 02
S.A.P. 114 - 127 - 02

SHEET NO.
528
539

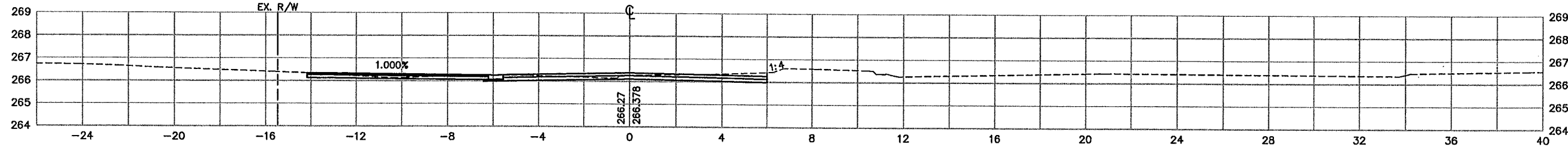
PLOT DATE: Aug 09, 2000 10:01am DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan\124xs-03.dwg



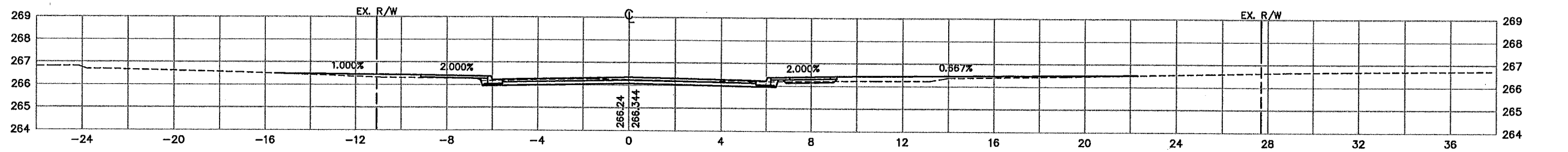
(DRIVEWAY - LEFT) 1+411.723 (CL GLADIOLA ST. - RIGHT)



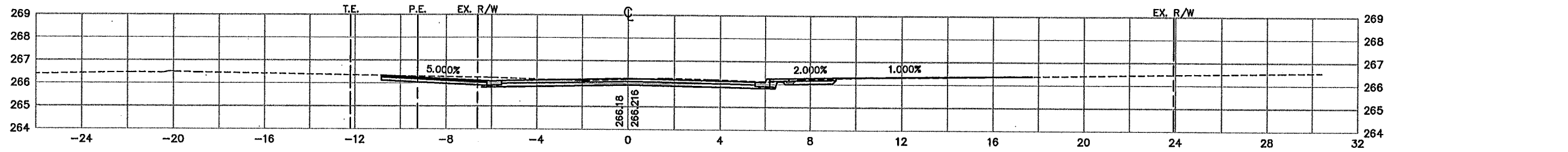
(CL DRIVEWAY - LEFT) 1+409.919



1+400



(CL 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
CHKD. BY: PBD	DWG. NAME: 124XS-03
DATE: NOVEMBER 5, 1999	



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.

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

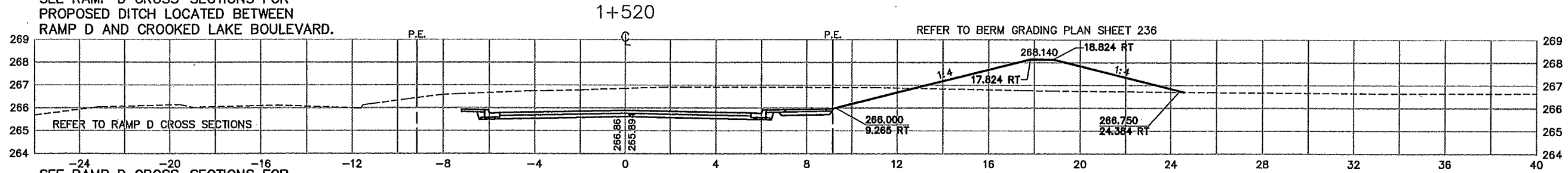
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 138 - 02
S.A.P.	114 - 127 - 02

3 OF 9

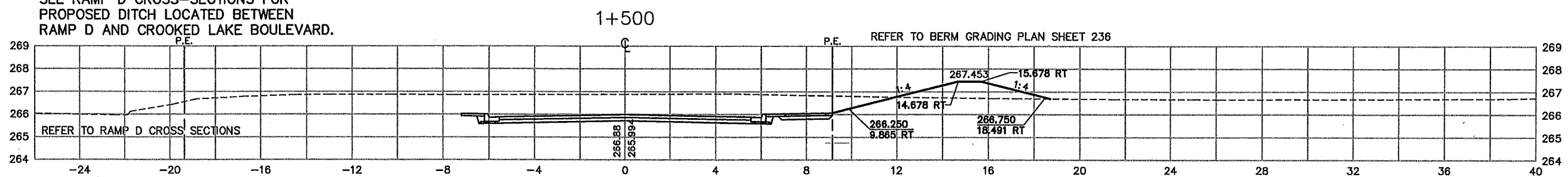
SHEET NO.
529
539

PLOT DATE: Nov 22, 2000 2:14pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\XSEC\plan_sht\124xs-04.dwg

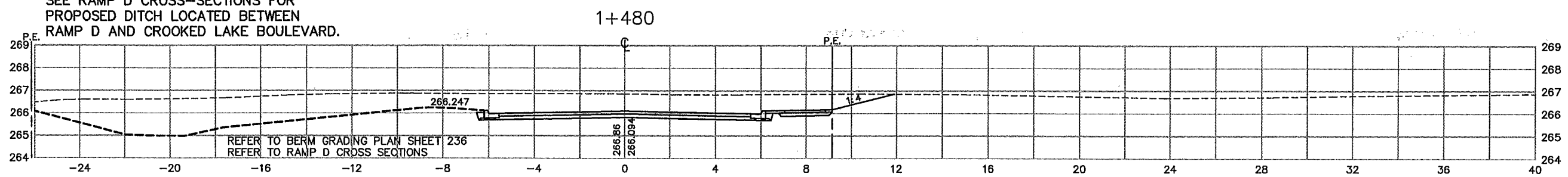
SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



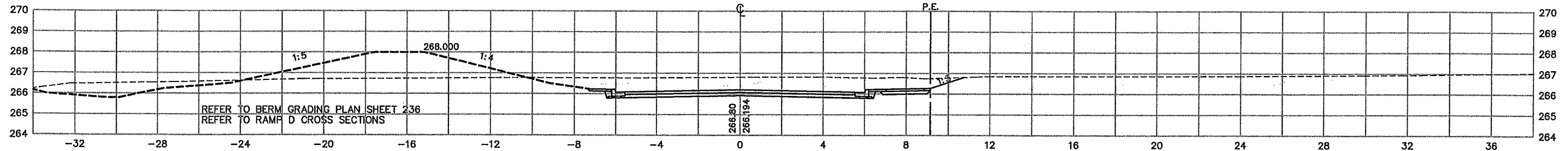
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PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



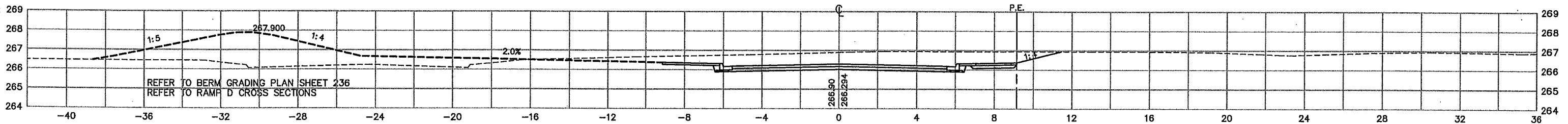
SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



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	JUL	8/15/00	MOD. REQ. #58: MOD. CROSS-SECTION AT 1+460
3	JUL	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: KPK

CHKD. BY: PBD DWG. NAME: 124XS-04

DATE: NOVEMBER 5, 1999



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

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.

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

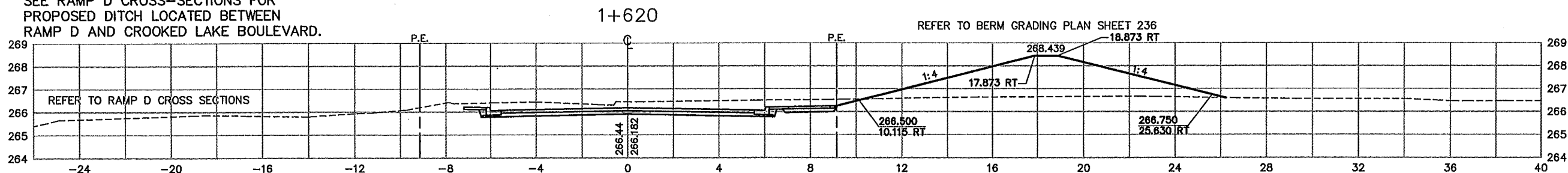
4 OF 9

SHEET NO.
530

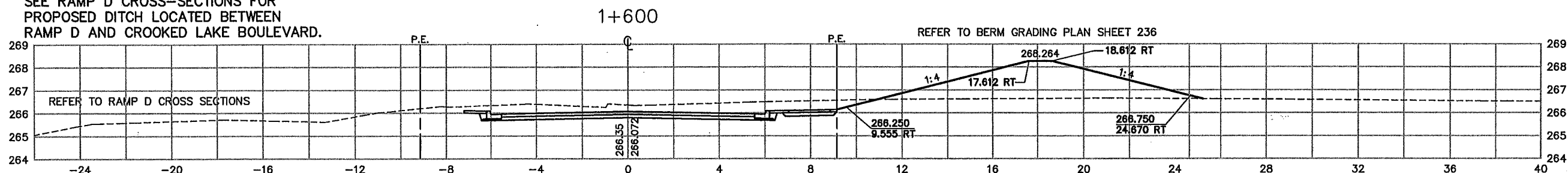
539

PLOT DATE: Nov 22, 2000 2:13pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\33889\XSEC\plan_sht\124xs-05.dwg

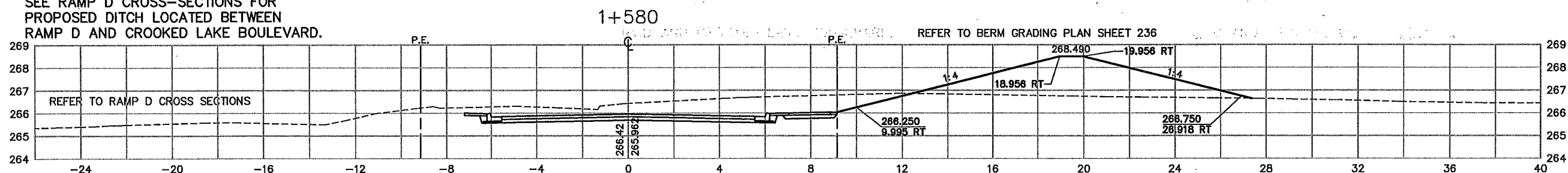
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PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



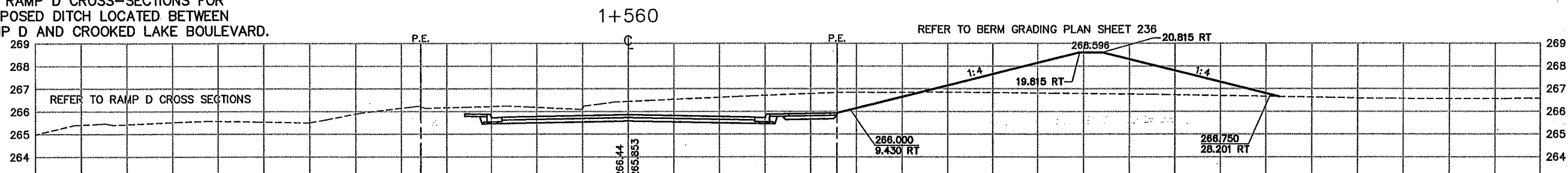
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PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



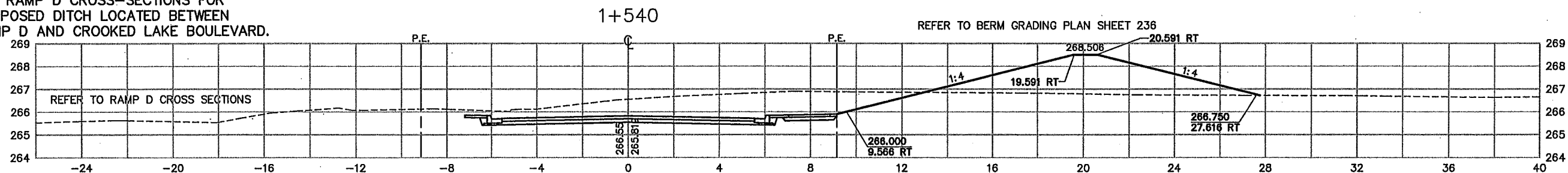
SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



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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	JLL	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
CHKD. BY:
PBD
DWG. NAME:
124XS-05
DATE:
NOVEMBER 5, 1999



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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

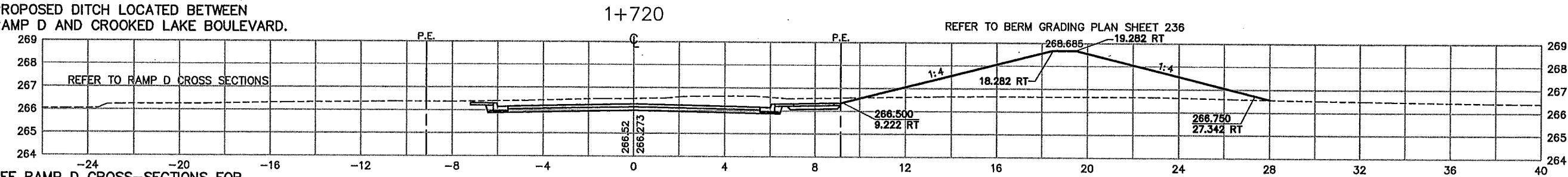
S.P.	0212-40 (T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.

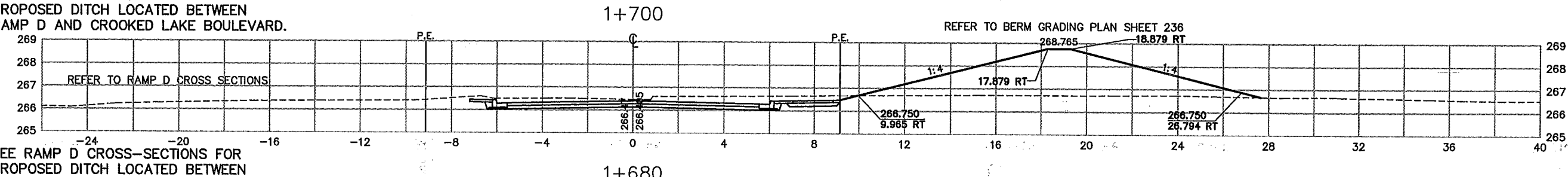
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539

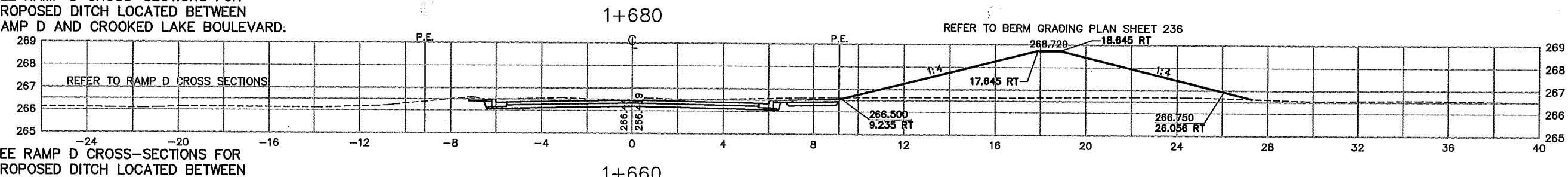
SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



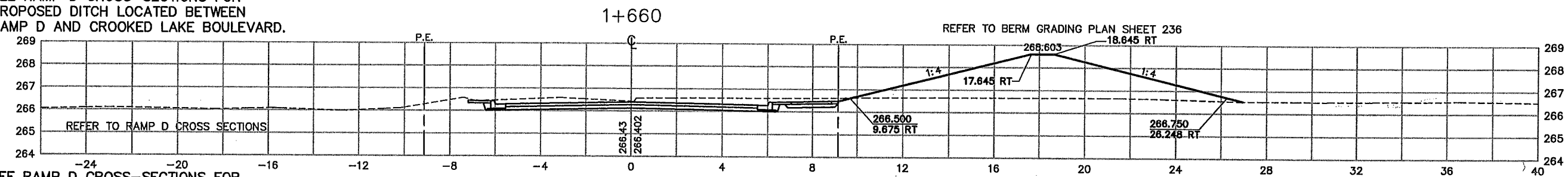
SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



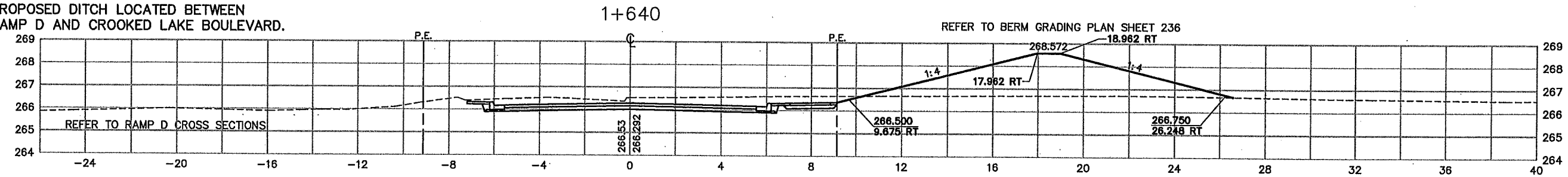
SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



SEE RAMP D CROSS-SECTIONS FOR
PROPOSED DITCH LOCATED BETWEEN
RAMP D AND CROOKED LAKE BOULEVARD.



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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PLOT DATE: Nov 22, 2000 2:17pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\33889W\XSEC\plan_sht\124xs-06.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	8/09/00	CLARIFICATION REQ. #7: ADDED BERMS TO CROSS SECTIONS
2	JUL	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
CHKD. BY:
PBD
DWG. NAME:
124XS-06
DATE:
NOVEMBER 5, 1999



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



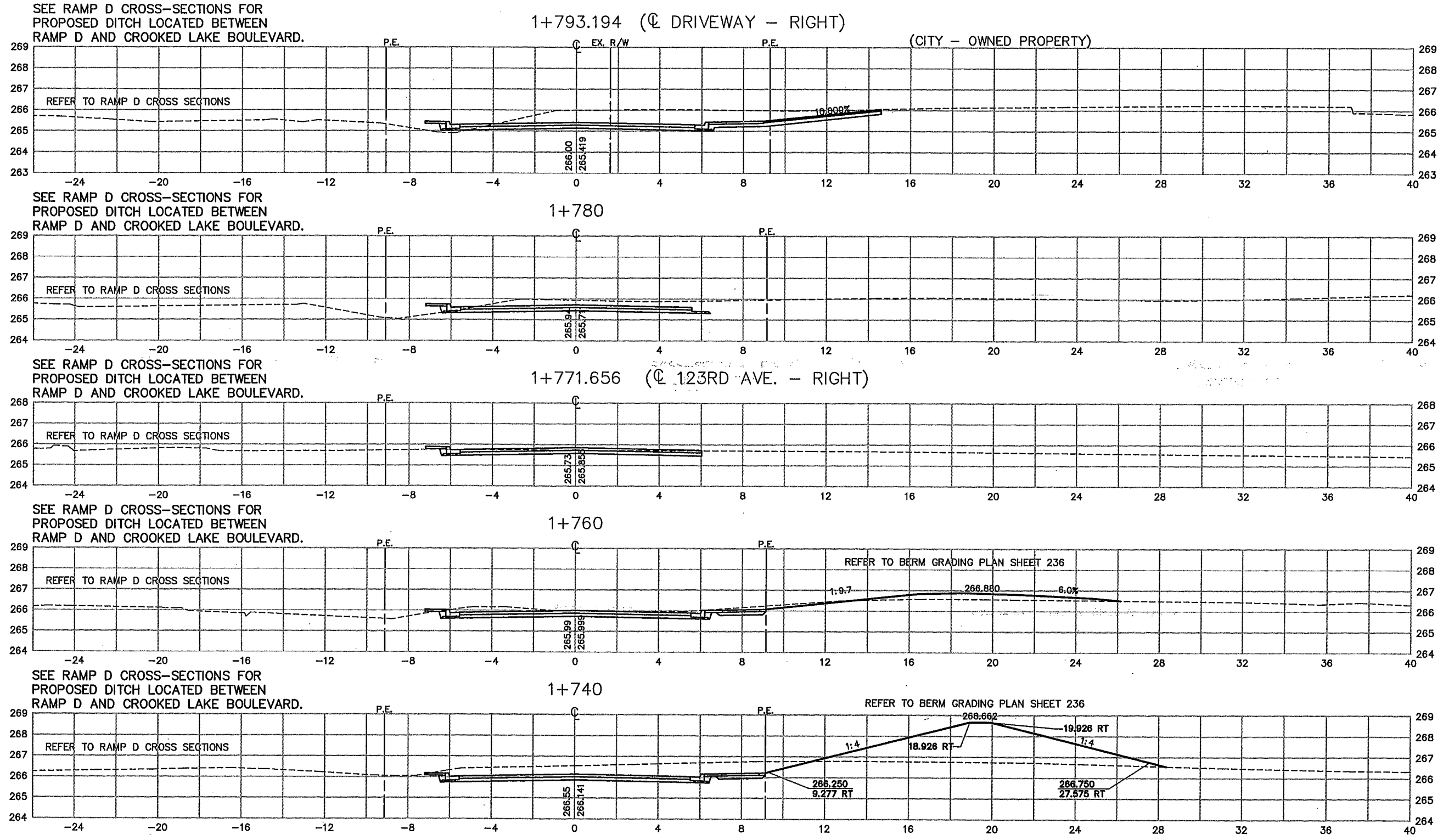
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DATE: _____ MINN. REG. NO. _____

**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

6 OF 9
SHEET NO.
532
539

PLOT DATE: Nov 26, 2000 3:54pm DISK FILE NAME: (15.0h (Hardware Lock)) R:\33889\33889028\XSEC\plan_sht\124xs-07.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

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	IKR	8/09/00	CLARIFICATION REQ. #7: ADDED BERMS TO CROSS SECTIONS
2	JUL	11/29/00	MOD. REQ. #72: MOD. BERM ON WEST SIDE
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
33889028

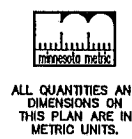
DRAWN BY:
PMJ

DESIGN BY:
KPK

CHKD. BY:
PBD

DWG. NAME:
124XS-07

DATE:
NOVEMBER 5, 1999



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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

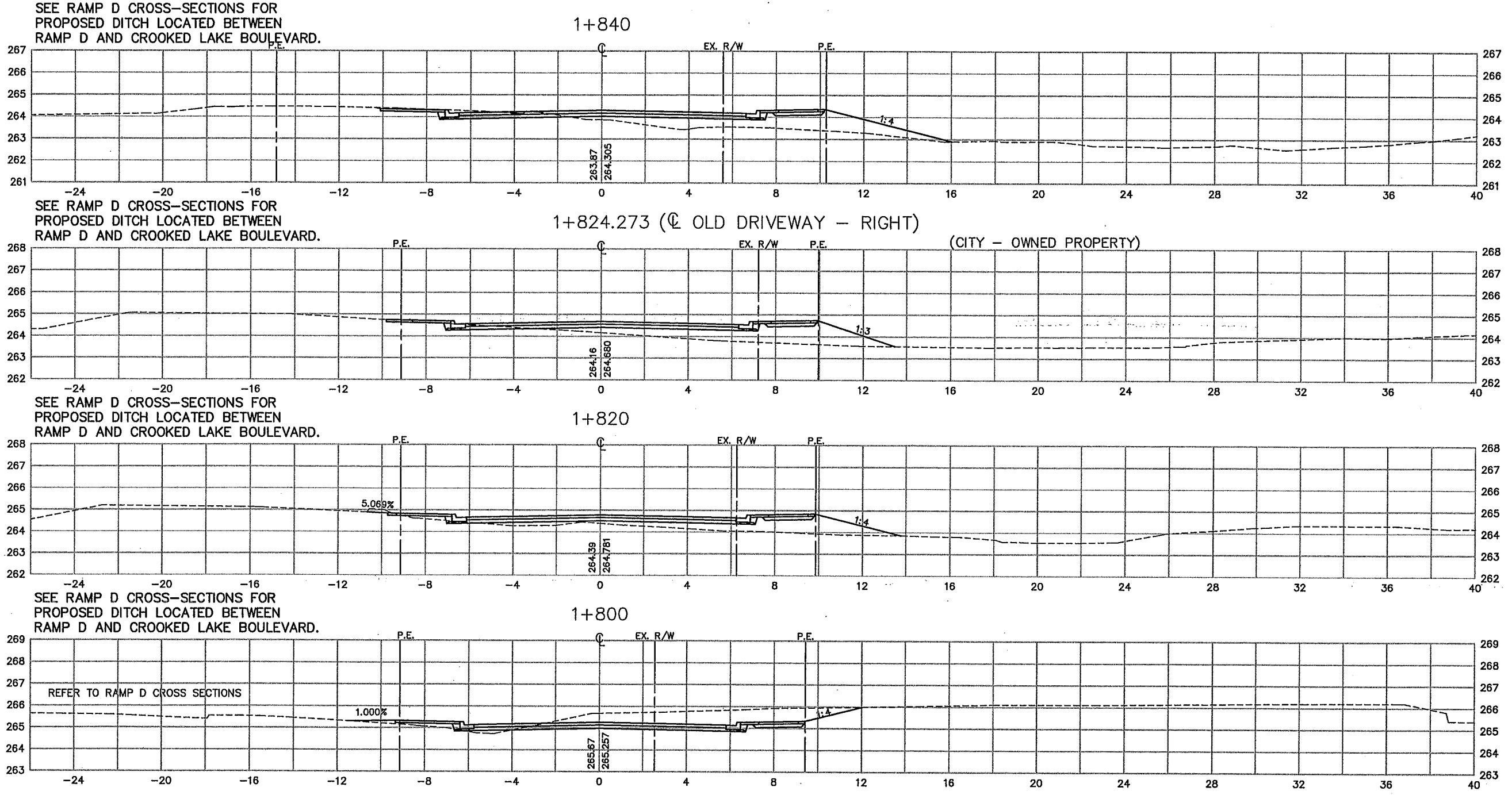
CITY PROJECT 98-20

S.P.	T.H.
0212-40	(T.H.242=242)
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.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: Aug 09, 2000 10:34am DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan\124xs-08.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

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

DESIGN FILE:
33889028

DRAWN BY: PMJ
DESIGN BY: KPK

CHKD. BY: PBD
DWG. NAME: 124XS-08

DATE:
NOVEMBER 5, 1999



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DATE: _____ MINN. REG. NO. _____

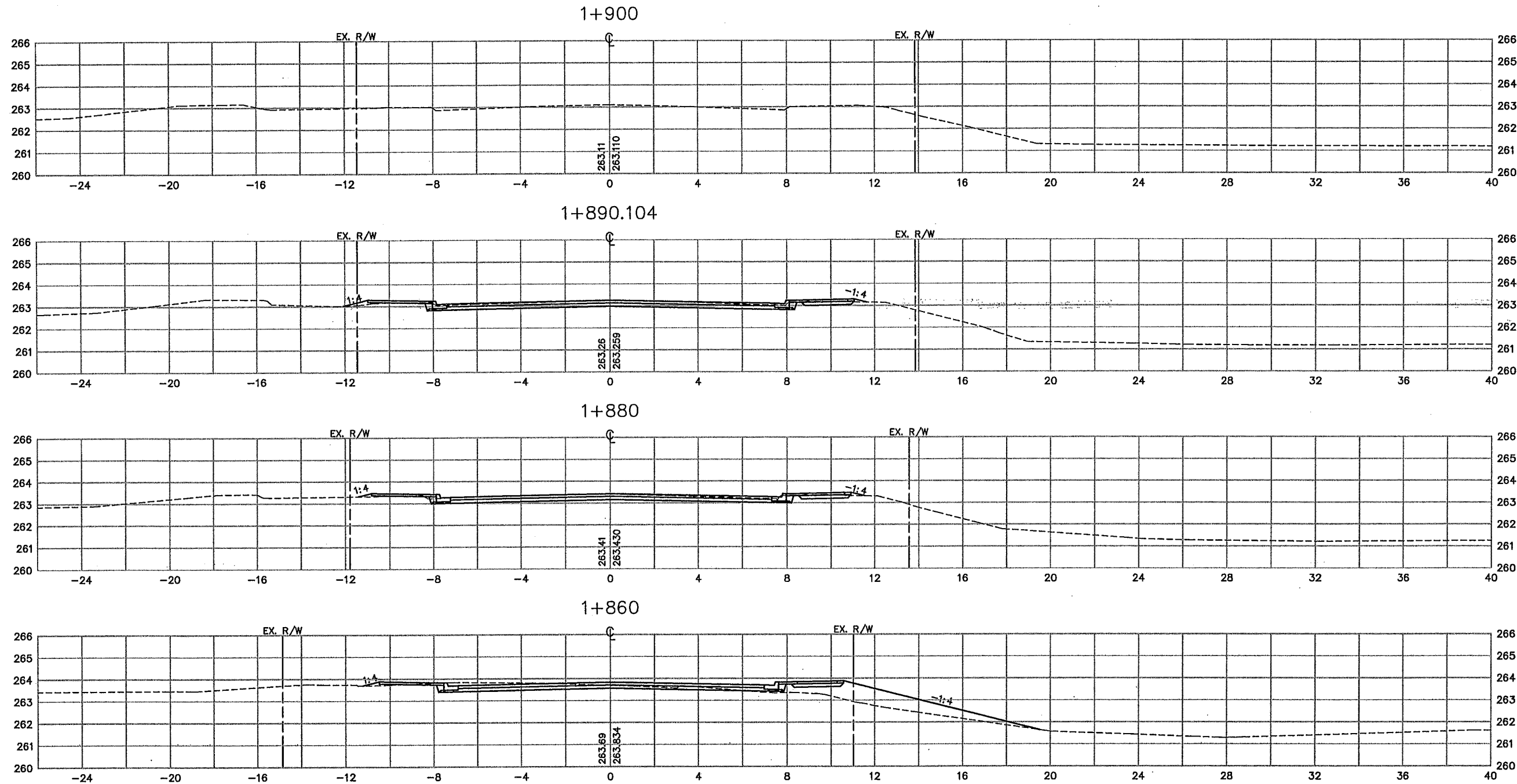
MAIN STREET/T.H. 242 RECONSTRUCTION
CROOKED LAKE BOULEVARD
 CROSS SECTIONS
 STATION 1+800.000 TO STATION 1+840.000

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

PLOT DATE: Aug 09 10:32am DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan\124xs-09.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

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



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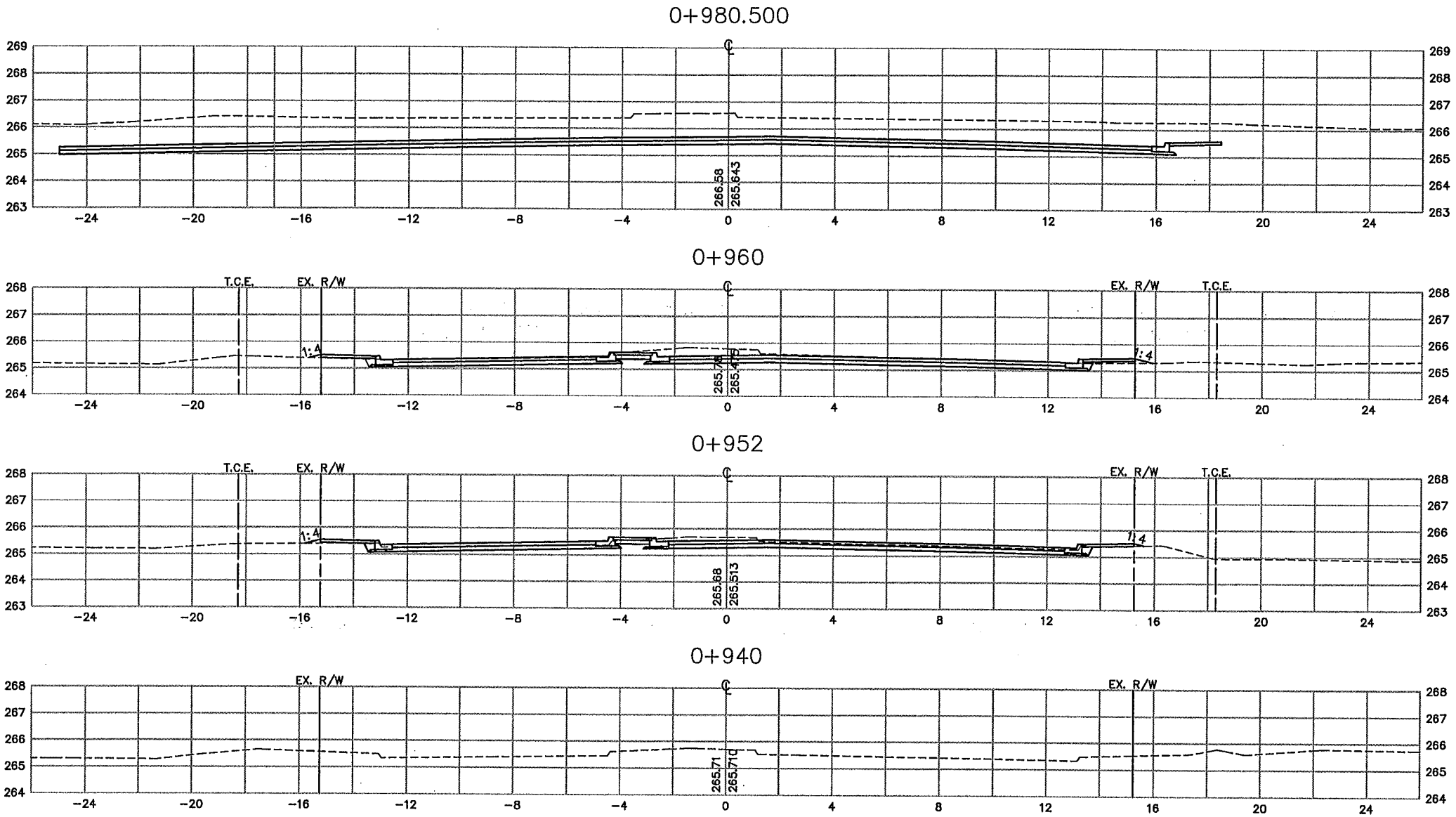
DATE: _____ MINN. REG. NO. _____

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

9 OF 9
 SHEET NO. 535
 539

PLOT DATE: Jan 03, 2000 11:12am DISK FILE NAME: (14,01) R:\33889\33889028\XSEC\plan_sht\ROSEXS-1.dwg

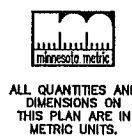


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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

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

DESIGN FILE:
33889028
 DRAWN BY: PMJ
 DESIGN BY: KPK
 CHKD. BY: PBD
 DWG. NAME: ROSEXS-1
 DATE: NOVEMBER 5, 1999



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



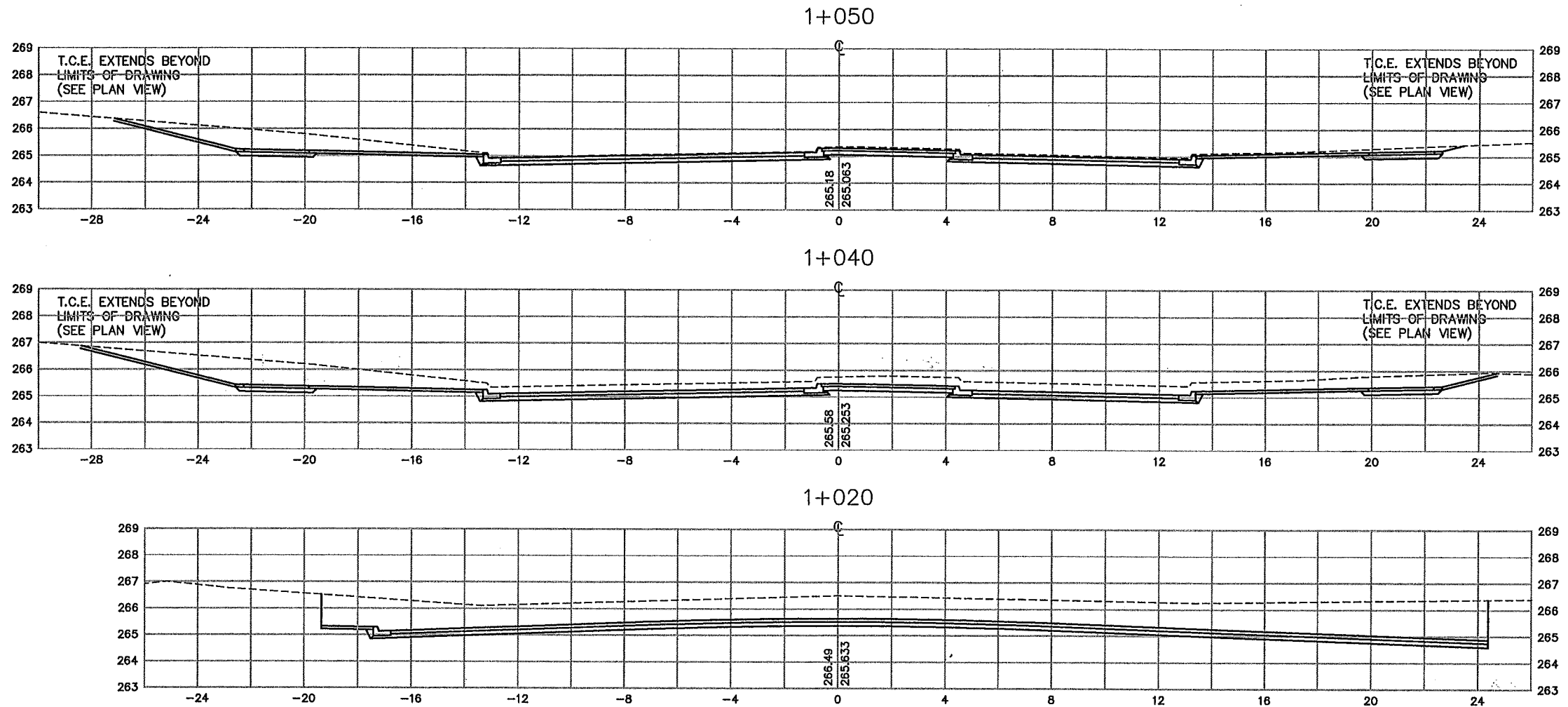
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 328.02 TO 328.16.
 DATE: _____ MINN. REG. NO. _____

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

1 OF 2
 SHEET NO. 536
 539

PLOT DATE: Jan 03, 2000 11:05am DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan_sit\ROSEXS-2.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

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

DESIGN FILE:
33889028
DRAWN BY: PMJ
DESIGN BY: KPK
CHKD. BY: PBD
DWG. NAME: ROSEXS-2
DATE: NOVEMBER 5, 1999



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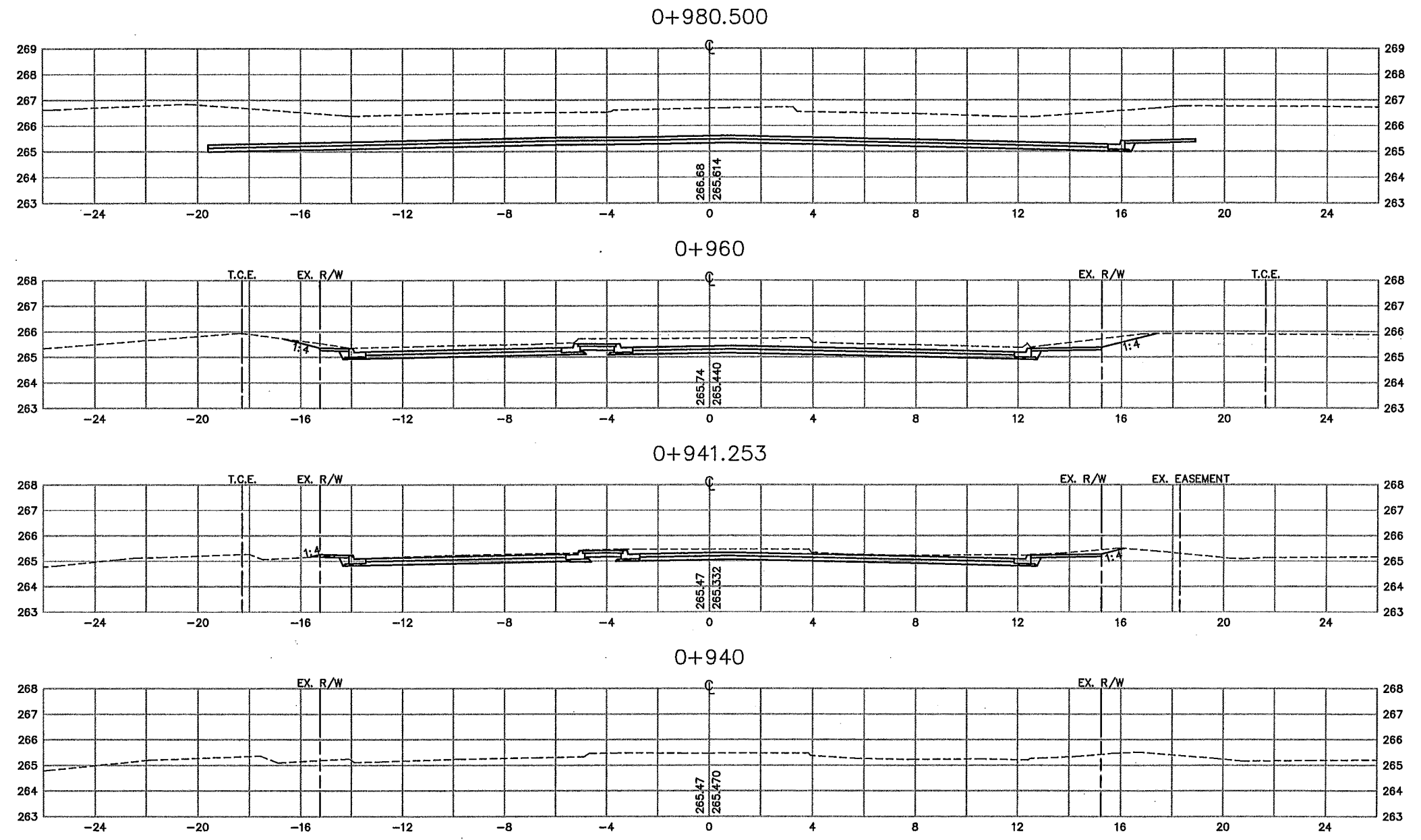
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16.
DATE: _____ MINN. REG. NO. _____

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

2 OF 2
SHEET NO. 537
539

PLOT DATE: Jun 03, 2000 11:06am DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan_srt\POPPxs-1.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

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

DESIGN FILE:
33889028

DRAWN BY: PMJ DESIGN BY: KPK

CHKD. 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**

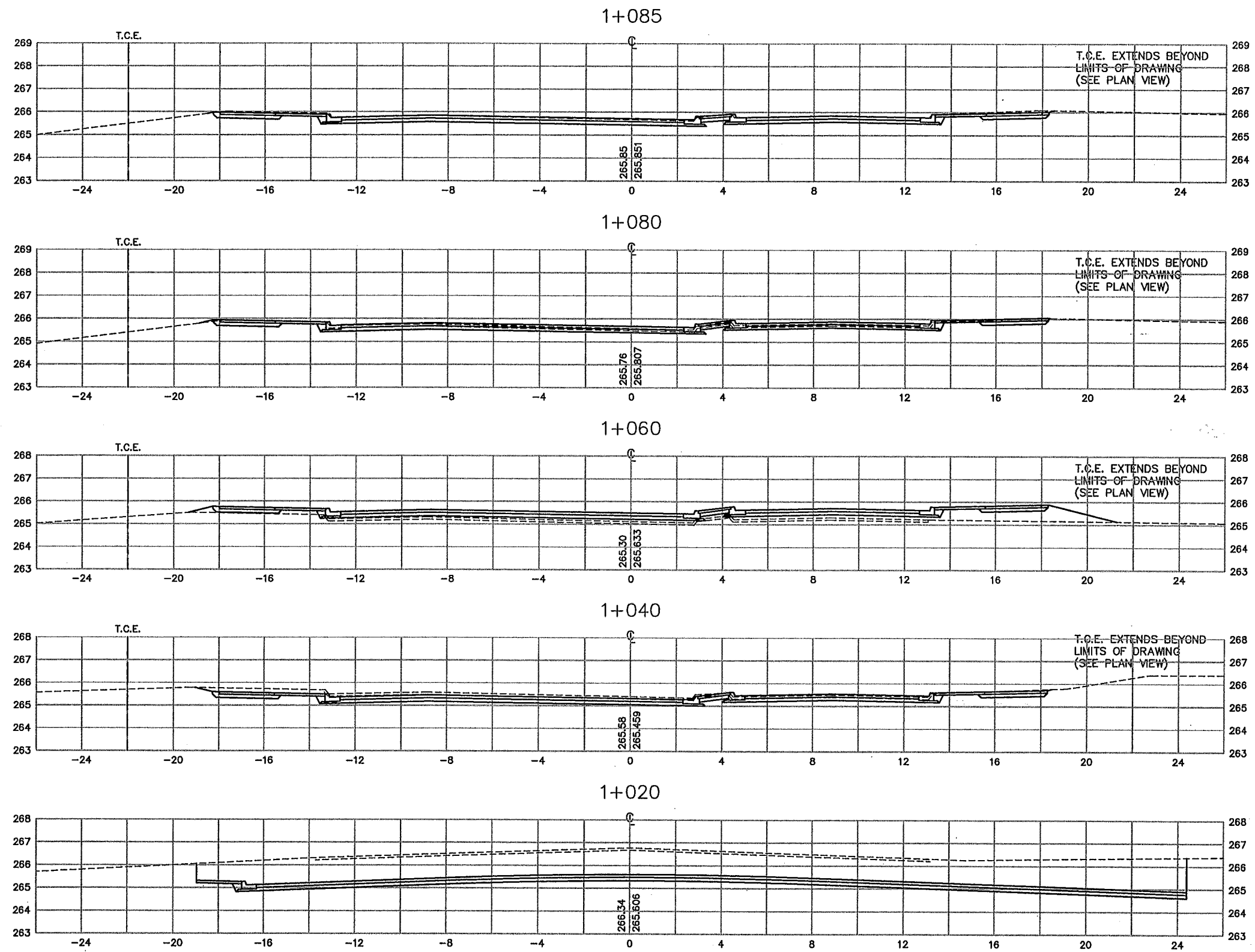
CITY PROJECT 98-20

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



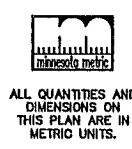
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LEGEND:
 EX. R/W EXISTING RIGHT-OF-WAY
 P.E. PERMANENT EASEMENT
 T.C.E. TEMPORARY CONSTRUCTION EASEMENT
 L.E. PLANTING EASEMENT
 T.E. TRAIL EASEMENT

PLOT DATE: Jan 03, 2000 11:06am DISK FILE NAME: (14.01) R:\33889\33889028\XSEC\plan_snt\POPPXS-2.dwg

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

DESIGN FILE:
33889028
 DRAWN BY: PMJ
 DESIGN BY: KPK
 CHKD. BY: PBD
 DWG. NAME: POPXS-2
 DATE: NOVEMBER 5, 1999



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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 - 138 - 02
S.A.P.	114 - 127 - 02

2 OF 2
 SHEET NO. 539
 539

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	220.0
2105.501	Common Excavation (Toe Berm - Phase 3)	m3	175.0
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 Non-Wear Mix (4,B)	T	51.0
2531.501	Concrete Curb & Gutter B424 (Mod)	m	48.0


STORM SEWER			
ITEM #	ITEM	UNITS	QUANTITY
2501.571	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 22-0-10	kg	151.0

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REV. NO.	BY	DATE	REVISIONS DESCRIPTION	DESIGN FILE:
1	JUL	11/27/00	MOD. REQ #71: ADDED NEW PLAN SHEET	33889028
2	JUL	12/18/00	MOD. REQ #71A: MODIFIED EARTHWORK QUANTITIES	
3	JUL	9/19/01	MOD. REQ #71C: ADDED GEOGRID BENEATH PAVEMENT	
4	TSR	2/27/04	AS-BUILT DRAWING	

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



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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Kevin P. Kiel

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

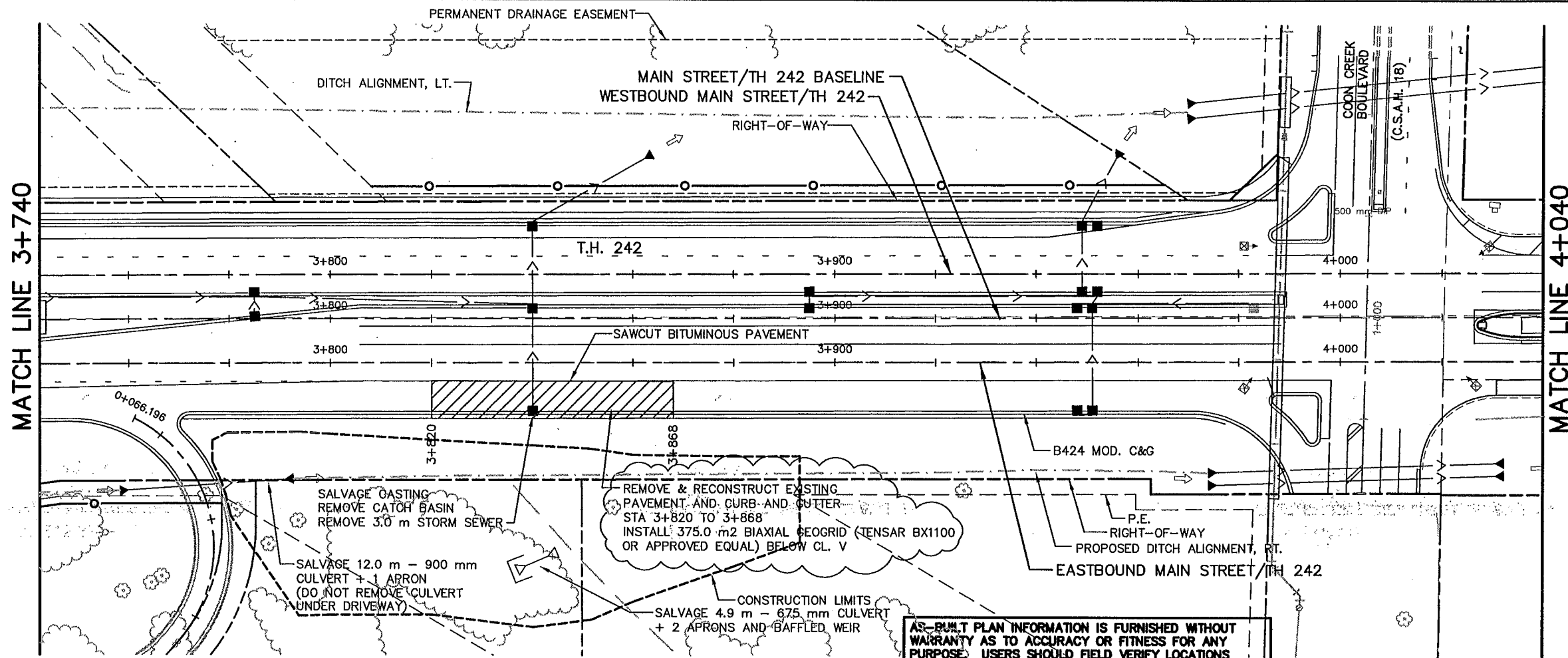
CITY PROJECT 98-20

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

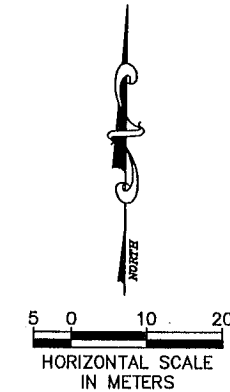
SHEET NO.
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 A17

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 42-EUT
 42MHVEG
 42MHETO

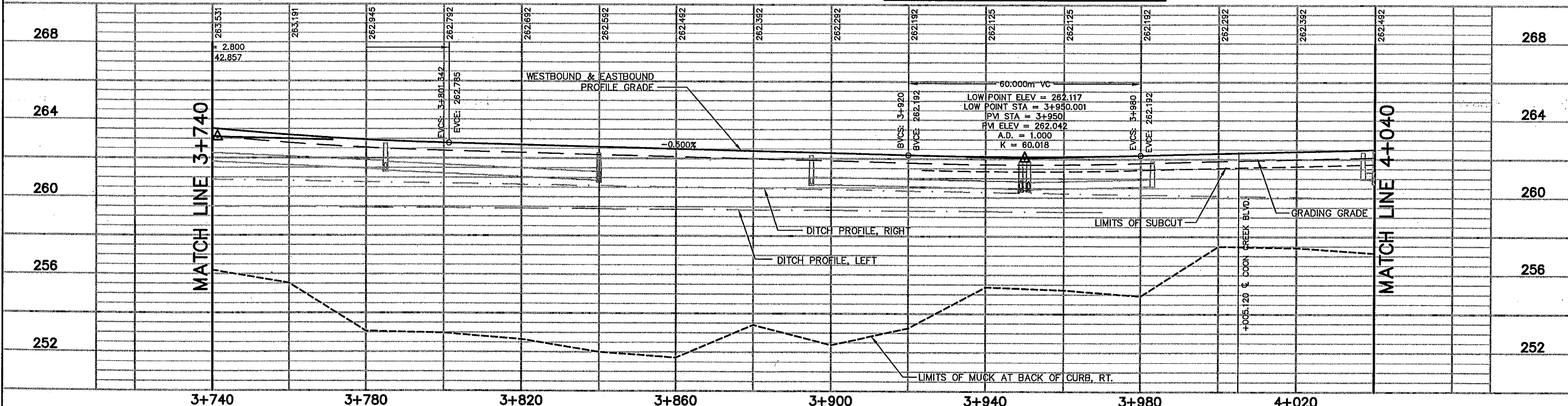
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NOTE:
 RECONSTRUCT ROADWAY ACCORDING TO TH 242 PLAN SET. REFER TO PLAN SHEET 140/539.



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JUL	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/JUL
 CHKED. BY:
 PBD/KPK
 DWG. NAME:
 MR71PP07
 DATE:
 NOVEMBER 27, 2000



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Kevin P. Kullb
 DATE: 11/27/00 MINN. REG. NO. 23211

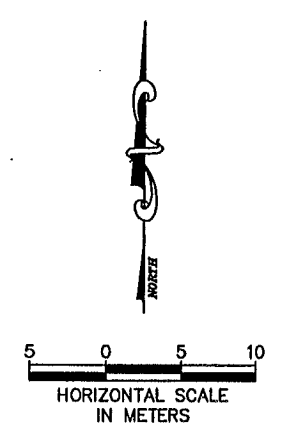
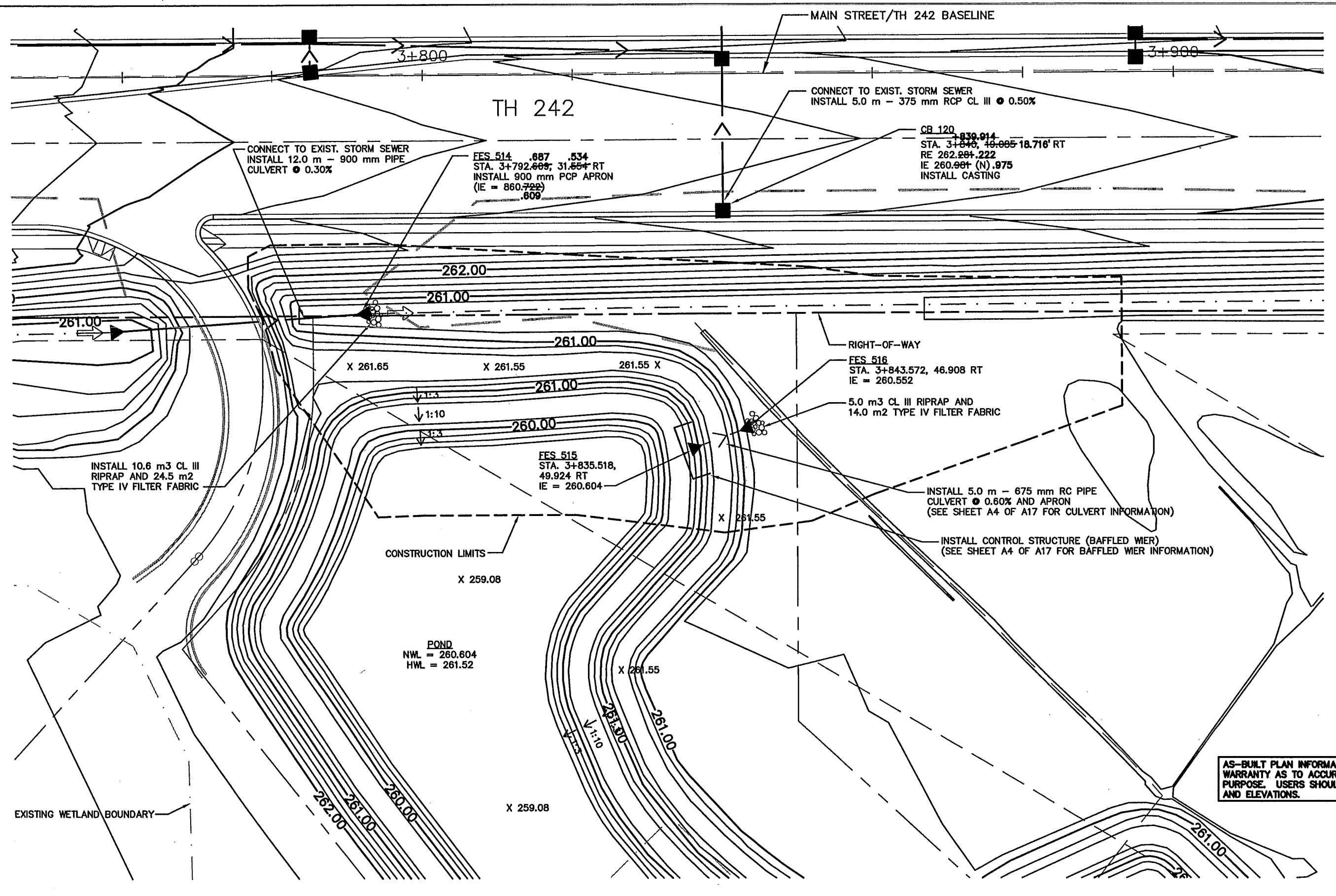
MAIN STREET/T.H. 242 RECONSTRUCTION
 MAIN STREET/(TH 242)
 REMOVALS FOR TOE BERM CONSTRUCTION
 STATION 3+740.000 TO STATION 4+040.000
 CITY PROJECT 98-20

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

WETLAND
 12-ESUM
 FAILXSI
 FAILCTN
 12PLN2A
 12M...
 S
 14
 12E-PLN
 12E-DRN
 12E-ALI
 12E-CLM

PLOT DATE: Dec 15, 2004 4:05pm DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Madrec71\shf\finalgrade.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
 33889028

DRAWN BY:
 JLL

DESIGN BY:
 KPK/JLL

CHKD. BY:
 KPK

DWG. NAME:
 FINALGRADE

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)
 (612)370-1378 (FAX)

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Kevin P. Kullb

DATE: 11/27/00 MINN. REG. NO. 23211

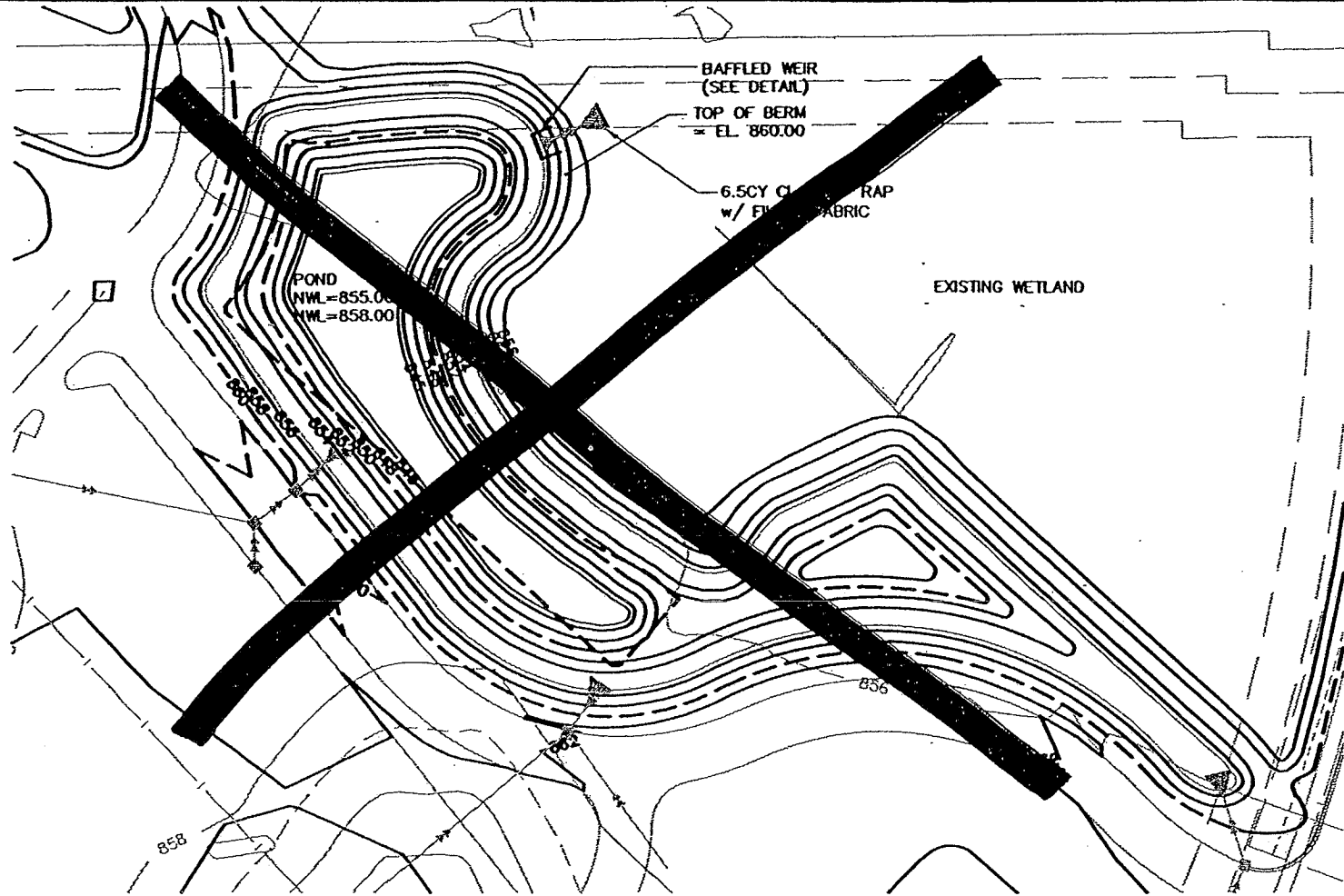
MAIN STREET/T.H. 242 RECONSTRUCTION
MAIN STREET/T.H. 242
 FINAL GRADING AND PROPOSED STORM SEWER
 PROPOSED MARCUS THEATRE POND

CITY PROJECT 98-20

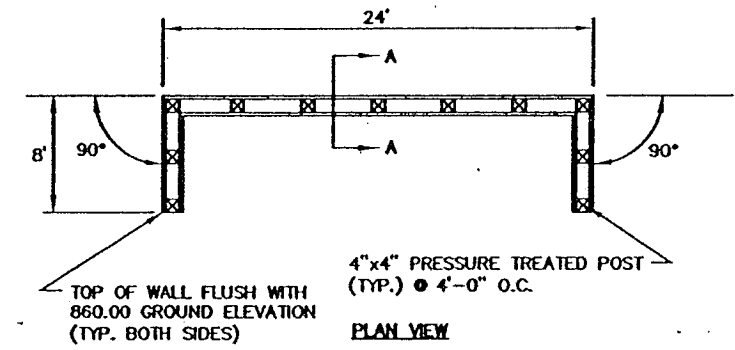
S.P. 0212-40 (T.H.242=242)	
S.A.P.	02 - 614 - 19
S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 136 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
A3
A17

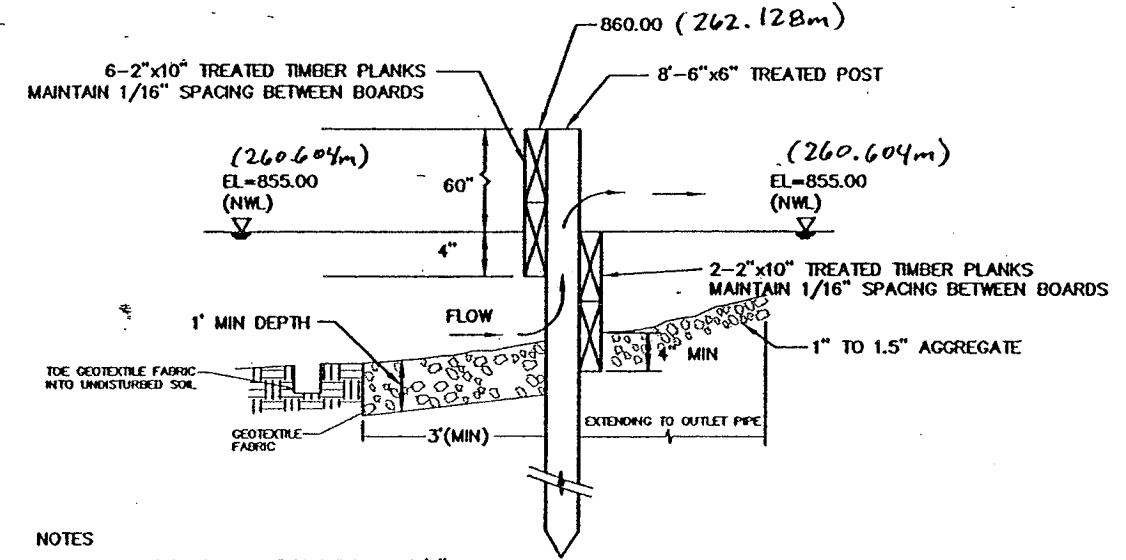
MT-SITE
 WEST-STM
 MT-POU
 MT-POND
 02/23/00H
 MT-EPD
 02/23/00H
 02/23/01E



NORTH POND



PLAN VIEW

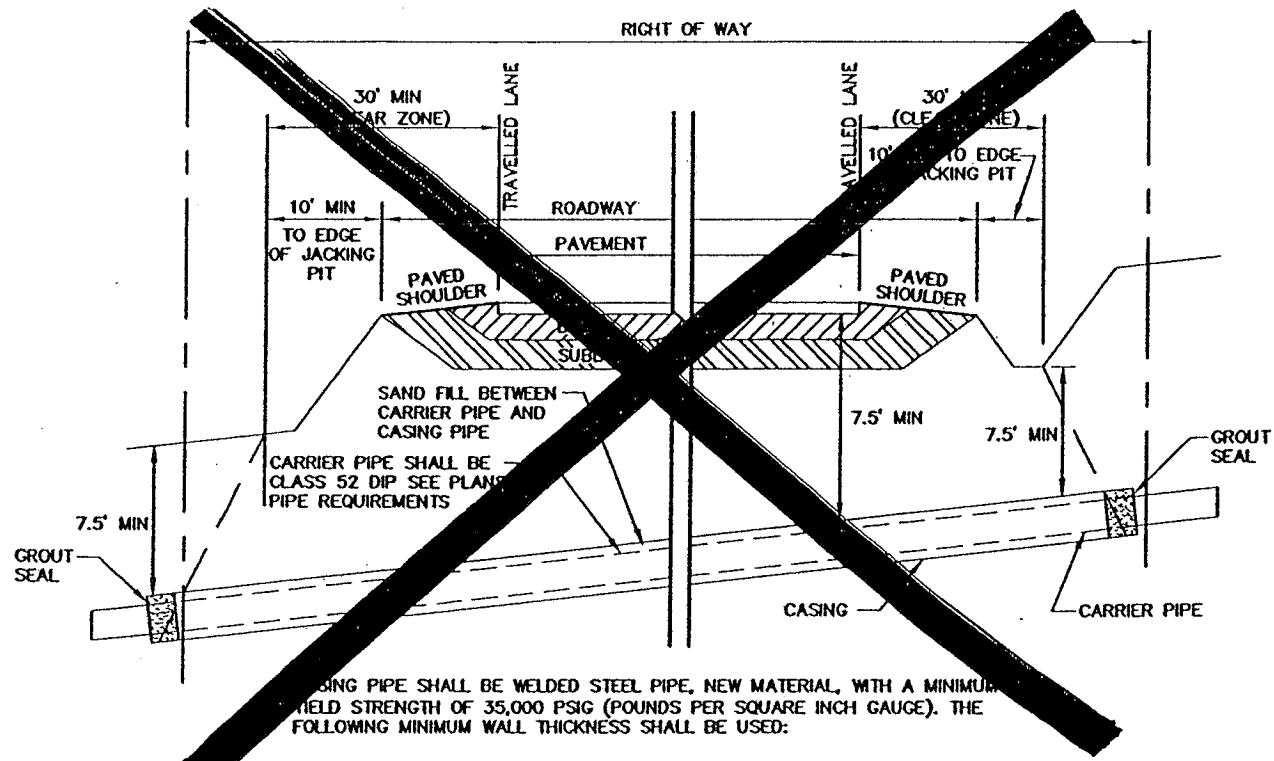


SECTION A-A

BAFFLED WEIR DETAIL

- 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.

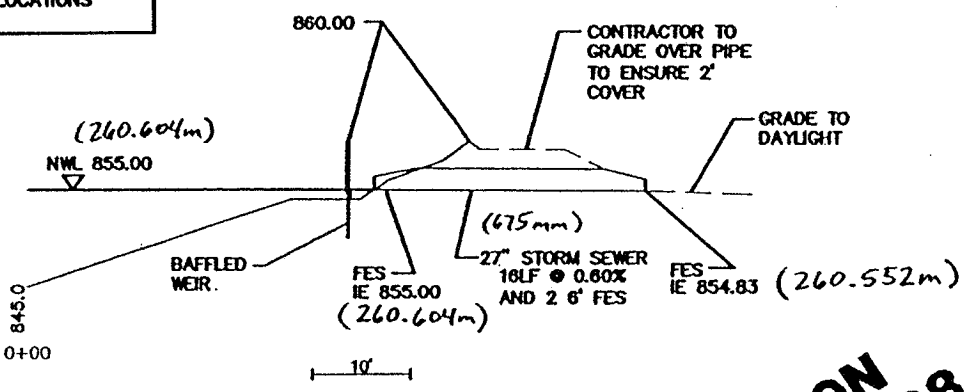
AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.



CARRIER PIPE SHALL BE WELDED STEEL PIPE, NEW MATERIAL, WITH A MINIMUM TENSILE FIELD 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



INPLACE BAFFLED WEIR DETAIL AND POND GRADING FOR INFORMATION ONLY

THIS SHEET IN ENGLISH UNITS

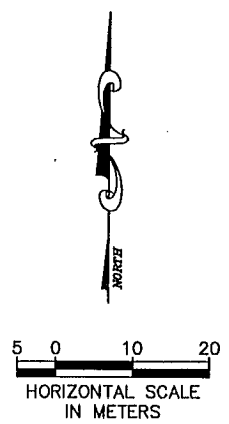
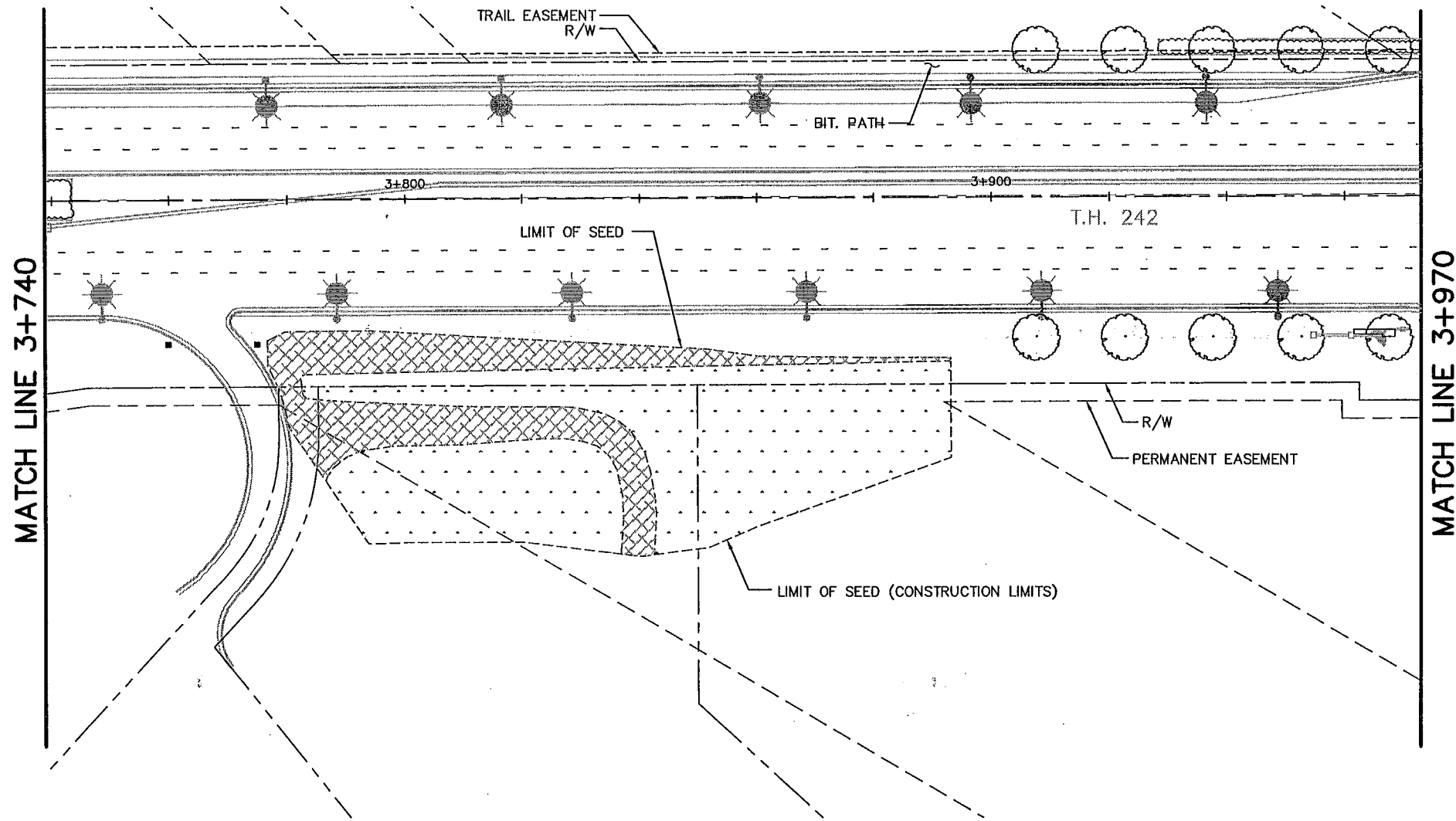
CONSTRUCTION
 REVISED 11-03-98

REV. NO.	1	DATE	11/03/98	DESCRIPTION	UTILITIES REVISED DUE TO CHANGE IN SITE PLAN
DESIGN FILE:	33889024	DRAWN BY:	KPK	CHECKED BY:	JATPF8
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 STATUTES OF MINNESOTA UNDER THE STATE OF MINNESOTA STATUTES SECTION 326.02 TO 326.16.					
THRESHER SQUARE 700 THIRDS STREET SOUTH MINNEAPOLIS, MN 55415 (612)375-4700 (TEL) (612)375-1378 (FAX)					
BRW A DAVIES & MOORE GROUP COMPANY					
CITY OF COON RAPIDS MARCUS THEATER CITY PROJECT NO. 98-26 NORTH POND BAFFLED WEIR/STORM SEWER					
SHEET NO. A4					
A17					






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 PLOT DATE: Nov 05, 1998 8:55am

IR7 I SEED
 42-ESUM
 42MHETO
 APBOX
 42-SEED
 ST P
 4' S
 4' T
 42E-PLN
 42E-CLM
 42E-ALI

PLOT DATE: Aug 03, 2004 9:44am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\Restoration.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
 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.

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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


CHKD. BY:
 TPH

DWG. NAME:
 RESTORATION

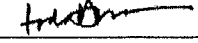
DATE:
 NOVEMBER 27, 2000

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 **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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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

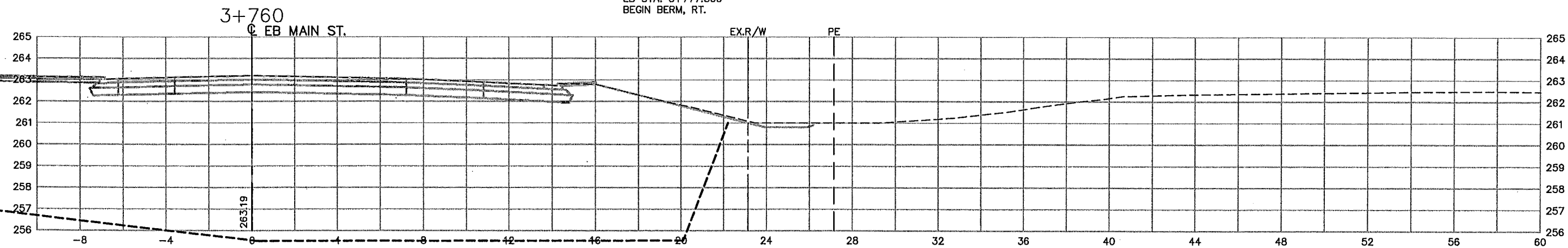
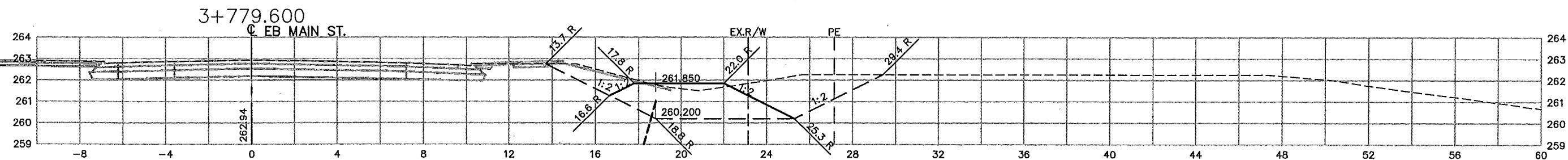
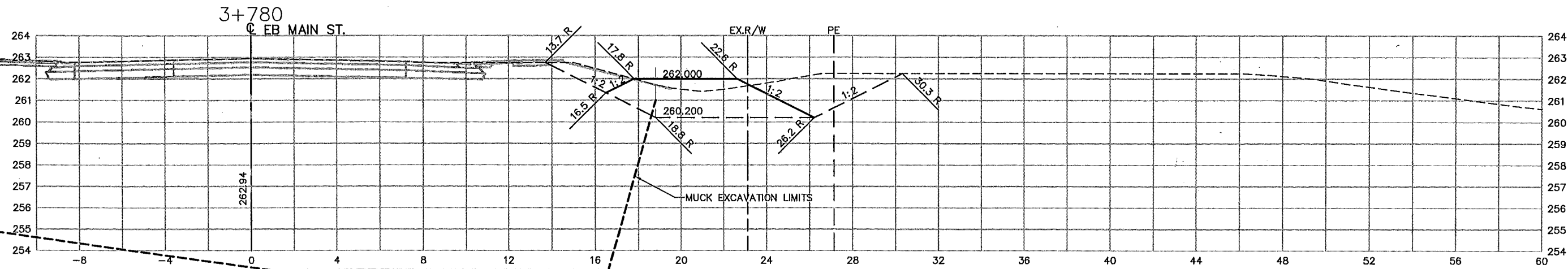
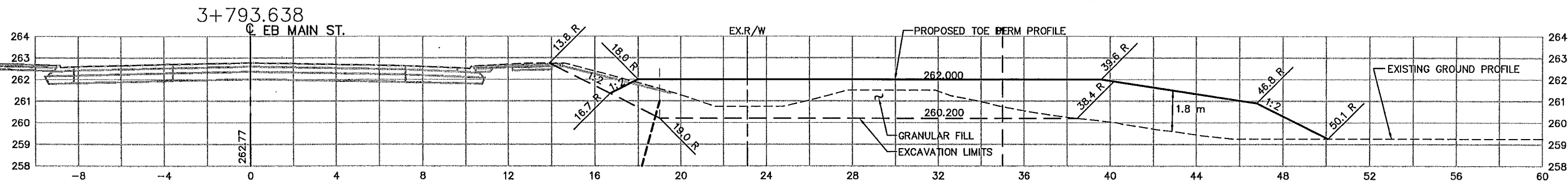
S.P. 0212-40 (T.H.242=242)

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 2004 9:48am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\PH1xs01.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JL	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

CHKD. BY:
KPK/PBD

DWG. NAME:
PH1XS01

DATE:
NOVEMBER 27, 2000



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Kevin P. Kullb

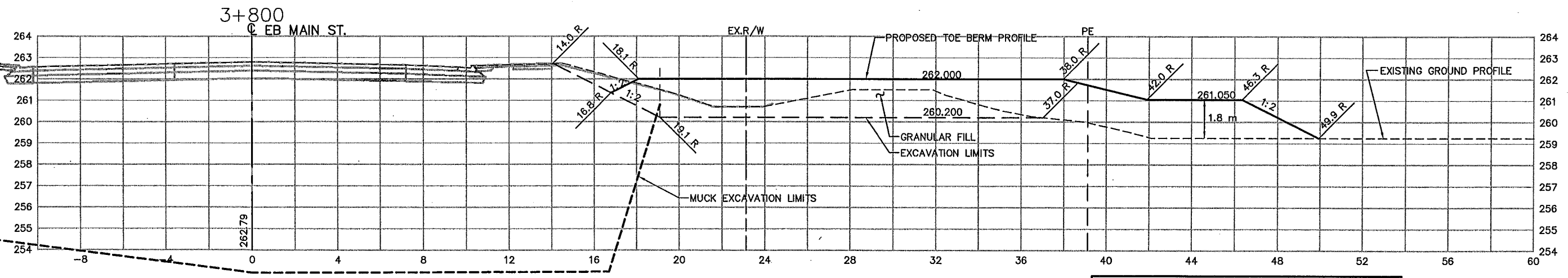
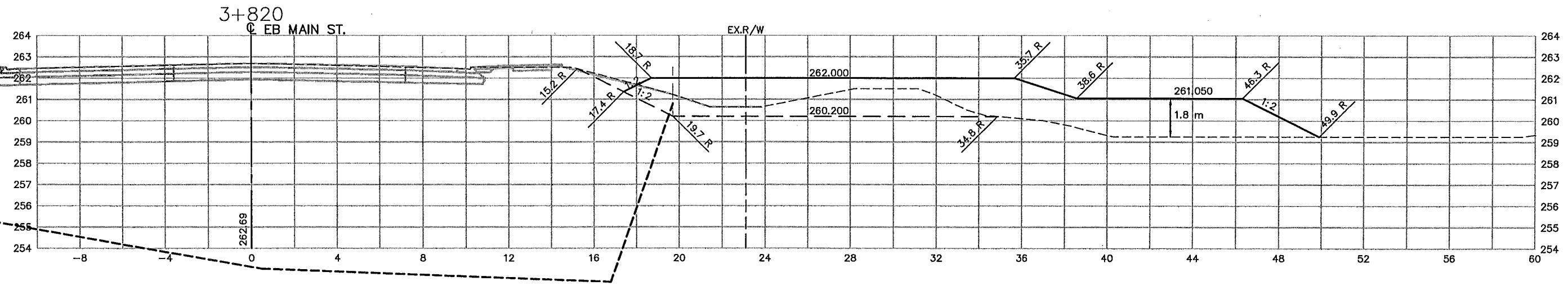
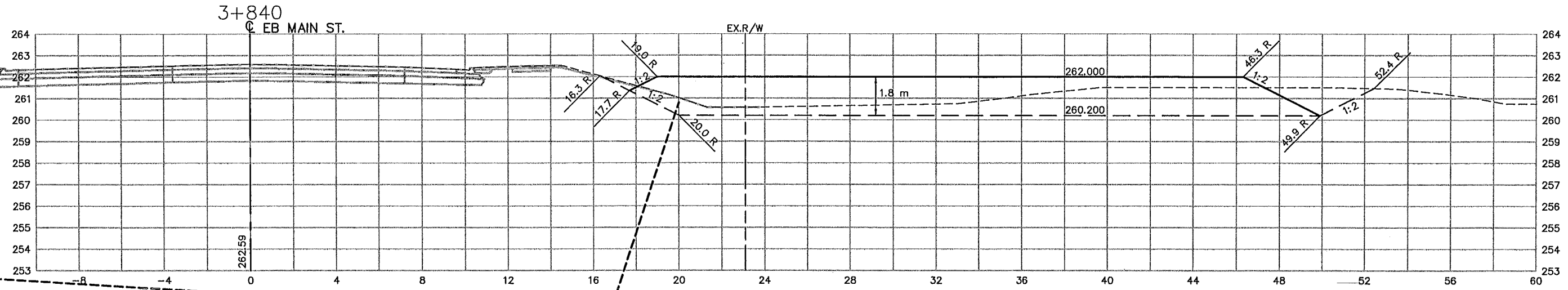
DATE: 11/27/00 MINN. REG. NO. 23211

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 - 138 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
A6
A17

PLOT DATE: Aug 03 9:51am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modrec71\PH1XS02.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JLL	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
CHKD. BY: KPK/PBD	DWG. NAME: PH1XS02	
DATE: NOVEMBER 27, 2000		



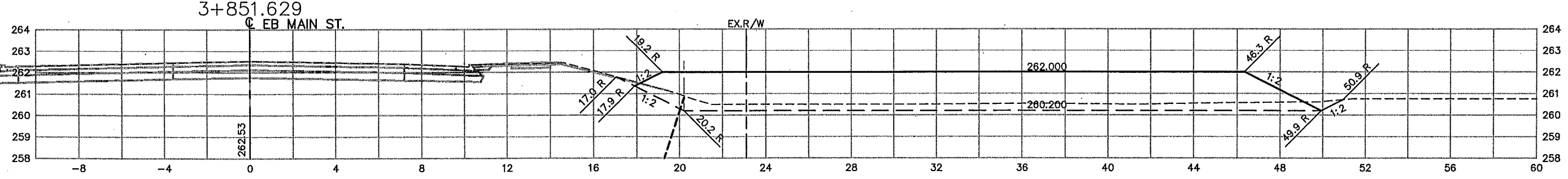
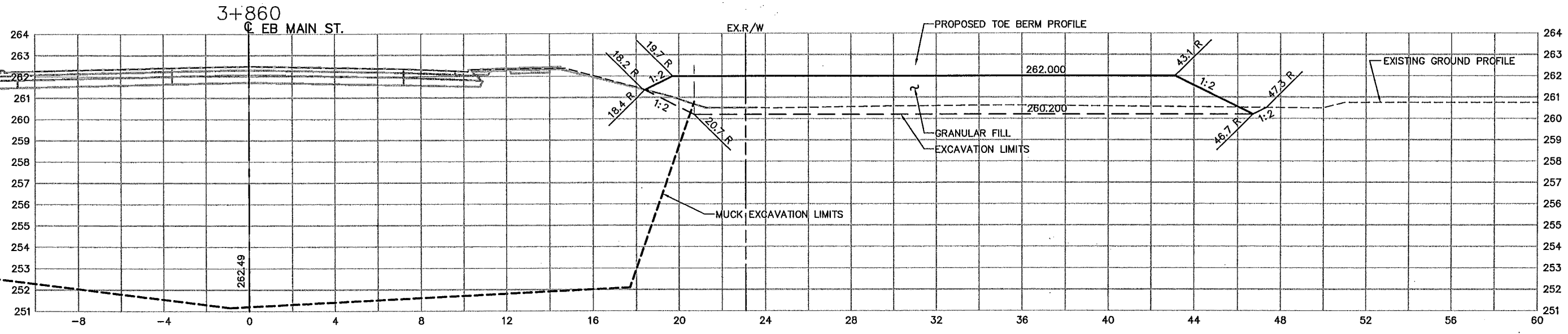
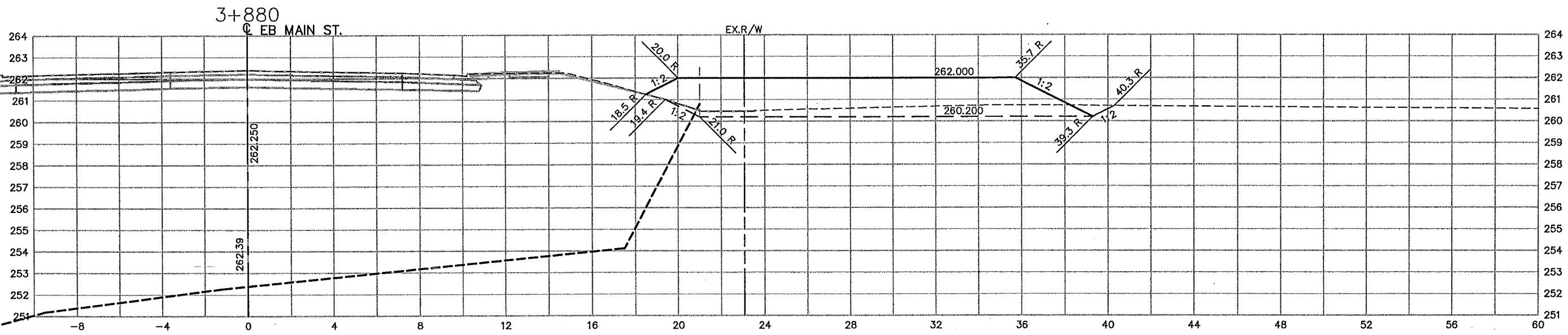
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINN. STATUTES SECTION 326.02 TO 326.16
Kevin P. Kullb
DATE: 11/27/00 MINN. REG. NO. 23211

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 03 9:53am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\PH1xs03.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JUL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DESIGN BY: KPK
DRAWN BY: IKR	DWG. NAME: PH1XS03
CHKD. BY: KPK/PBD	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)
(612)370-1378 (FAX)

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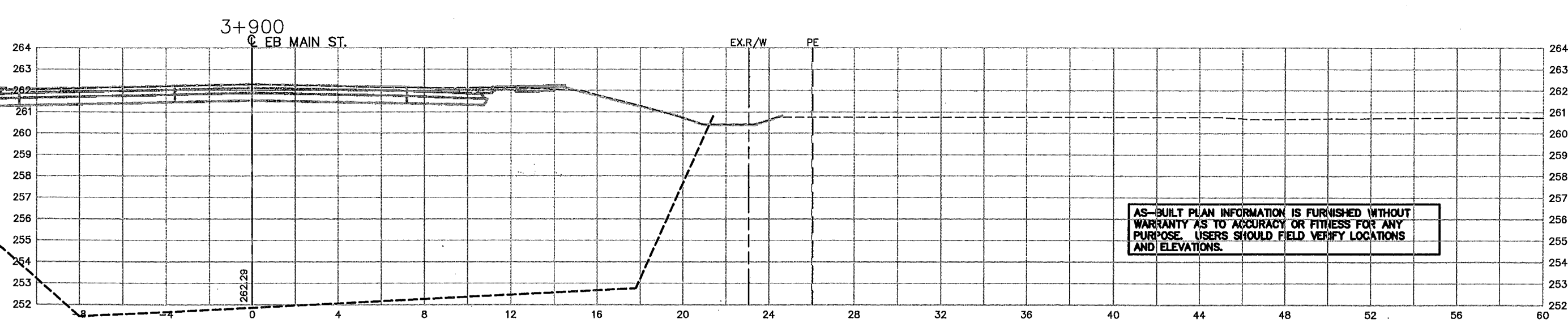
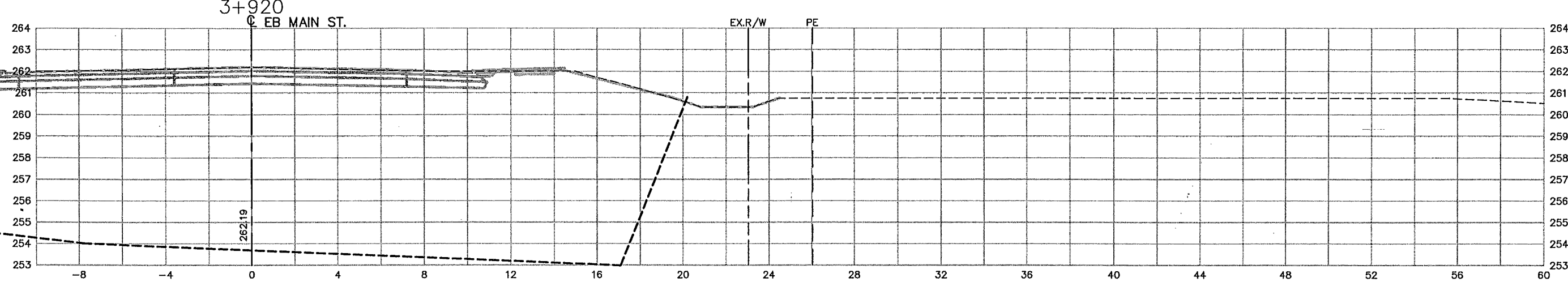
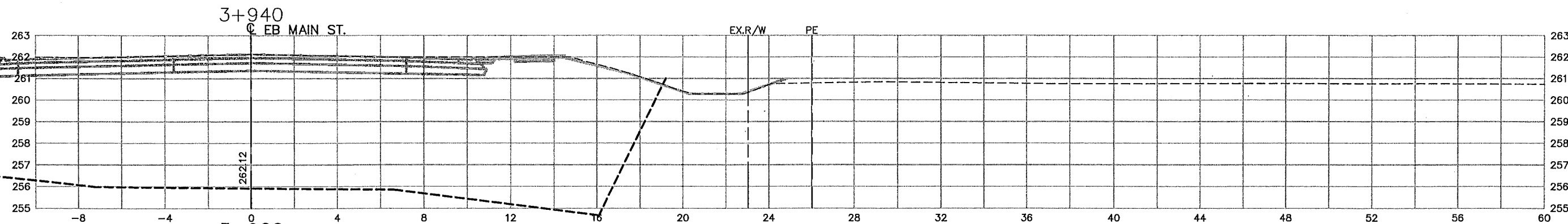
Kevin P. Kiel

DATE: 11/27/00 MINN. REG. NO. 23211

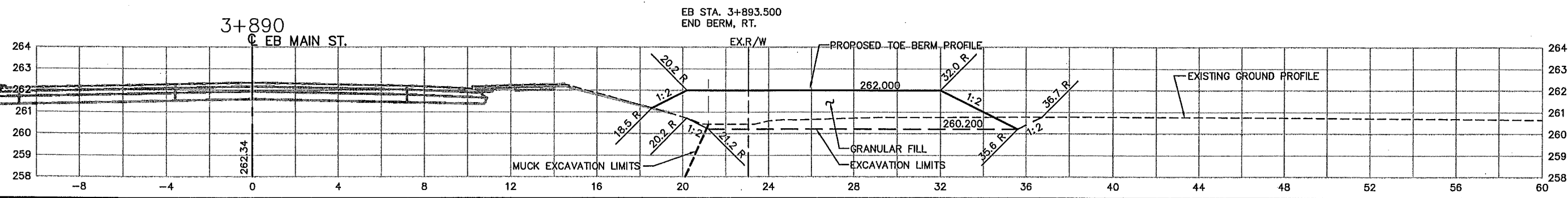
**MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 1 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+851.629 TO STATION 3+880.000
CITY PROJECT 98-20**

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	A8
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	A17

PLOT DATE: Aug 03 9:56am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\PH1xs04.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JUL	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
CHKD. BY: KPK/PBD	DWG. NAME: PH1XS04	
DATE: NOVEMBER 27, 2000		


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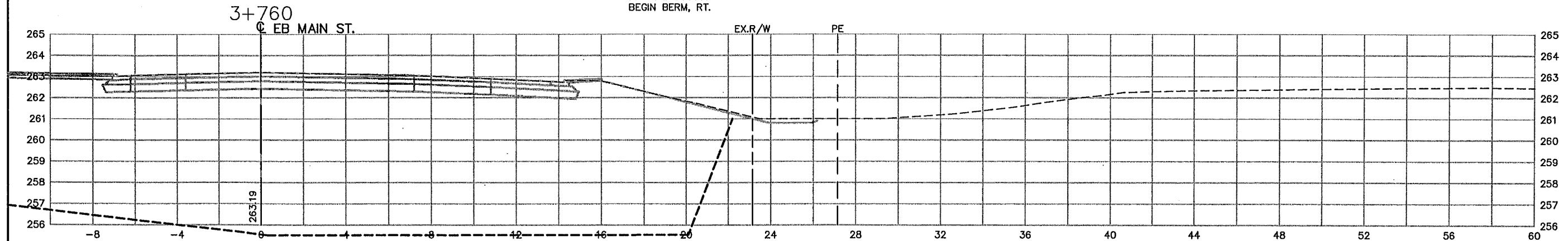
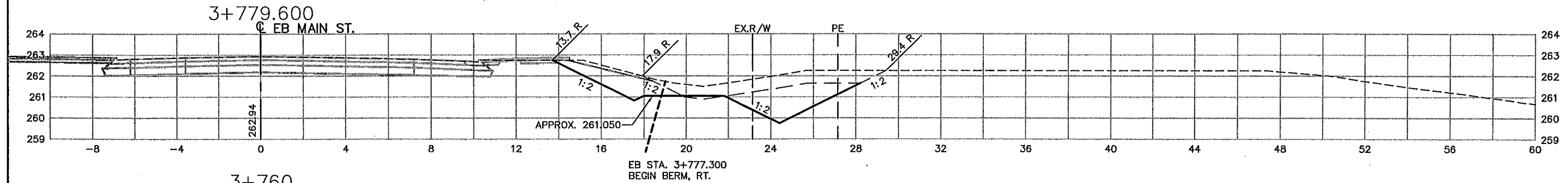
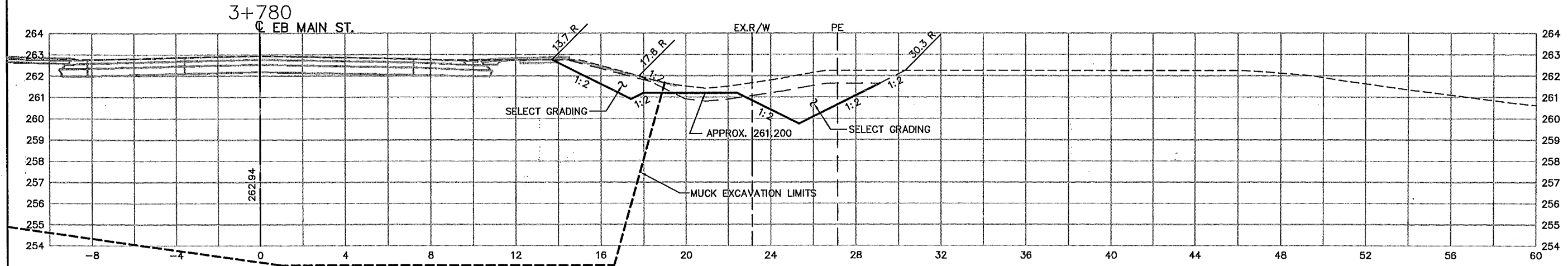
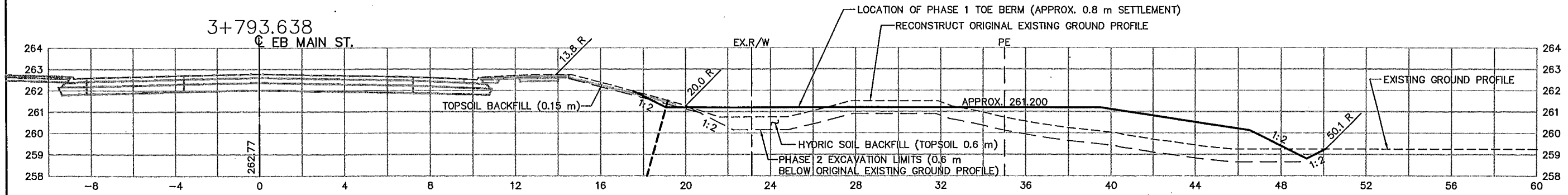
THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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Kevin P. Kullb
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)	SHEET NO.
S.A.P. 02 - 614 - 19	A9 A17
S.A.P. 02 - 618 - 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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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JLL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	B.K	4/13/01	MOD. REQ. #71B: MODIFIED CROSS SECTIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE:
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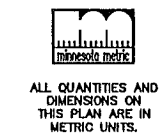
DRAWN BY:
IKR

DESIGN BY:
KPK

CHKD. BY:
KPK/PBD

DWG. NAME:
PH2XS01

DATE:
NOVEMBER 27, 2000



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Kevin P. Kullb

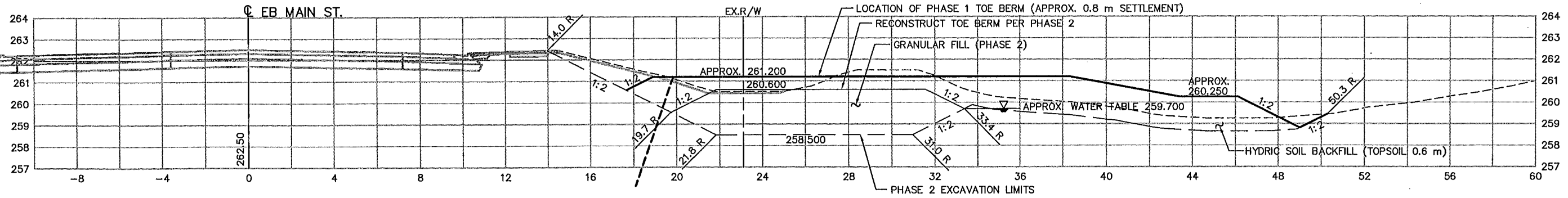
DATE: 11/27/00 MINN. REG. NO. 23211

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

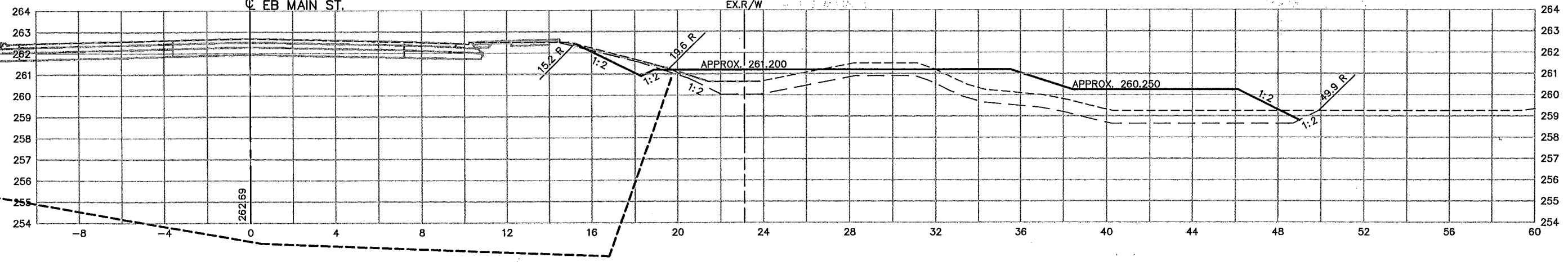
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S.A.P.	02 - 618 - 24
S.P.	114 - 010 - 11
S.A.P.	114 - 020 - 19
S.A.P.	114 - 138 - 02
S.A.P.	114 - 127 - 02

SHEET NO.
A10
A17

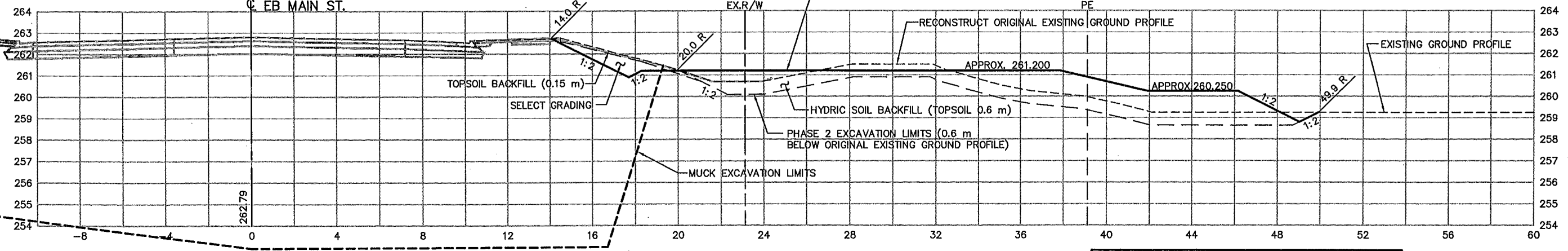
3+830



3+820



3+800



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PLOT DATE: Aug 04 9:59am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\sh\PH2xs02.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JLL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	B.K	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
CHKD. BY: KPK/PBD	DWG. NAME: PH2XS02
DATE: NOVEMBER 27, 2000	



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BRW
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THRESHER SQUARE
700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
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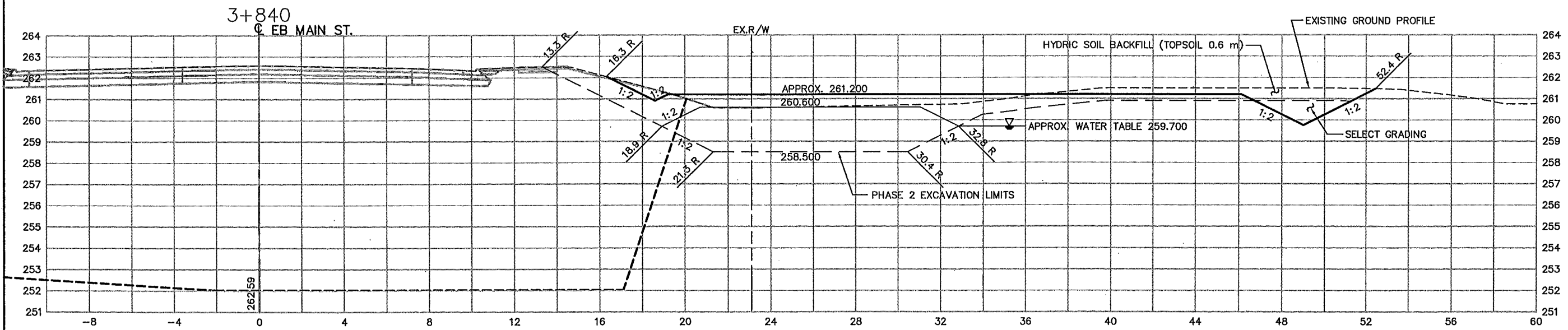
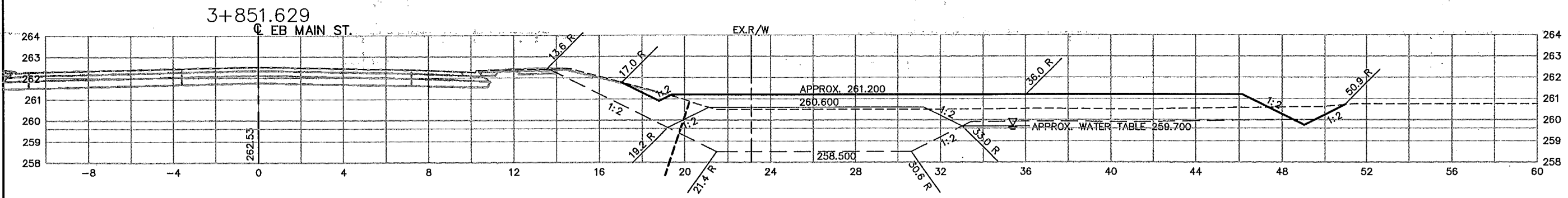
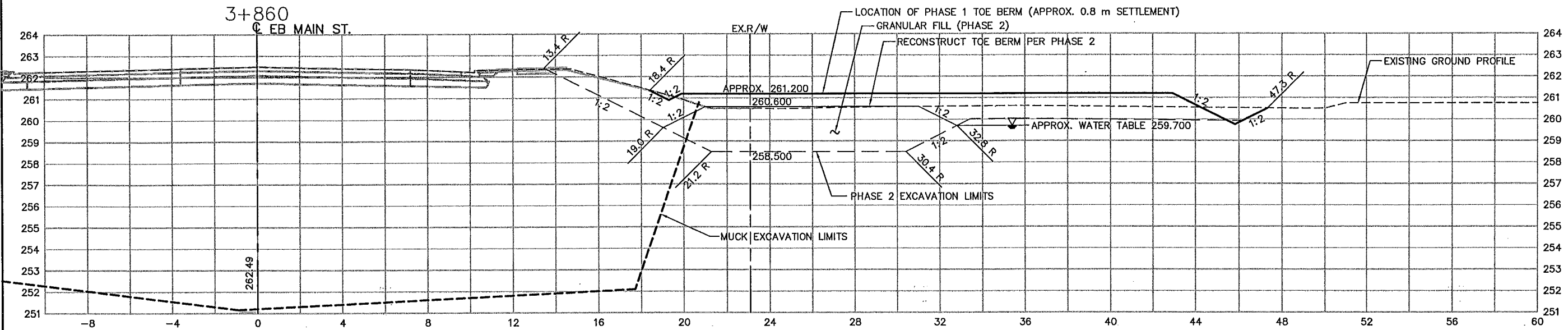
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Kevin P. Kullb
DATE: 11/27/00 MINN. REG. NO. 23211

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



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JUL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JUL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	B.K	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
CHKD. BY: KPK/PBD	DWG. NAME: PH2XS03	DATE: NOVEMBER 27, 2000



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Kevin P. Kiehl

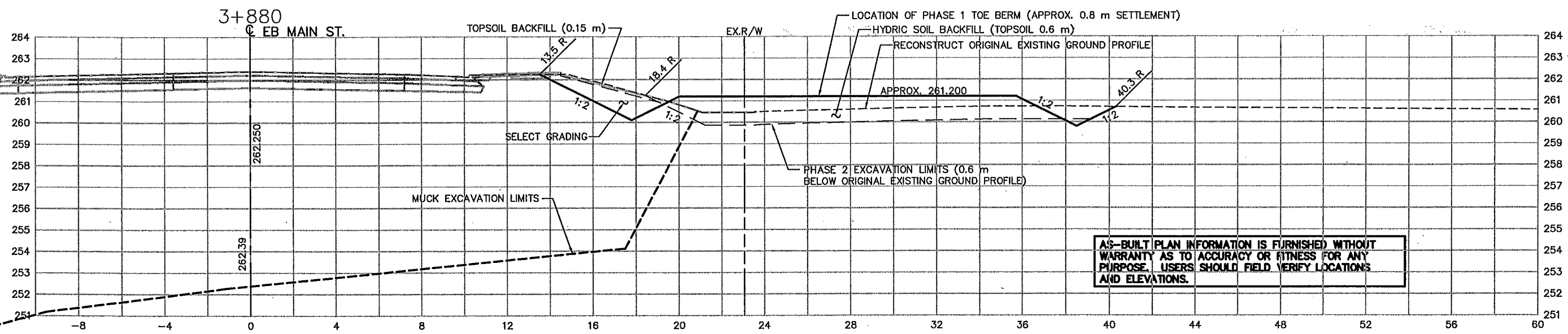
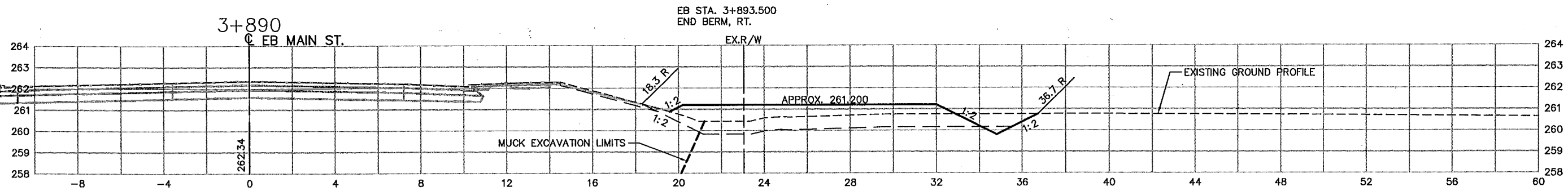
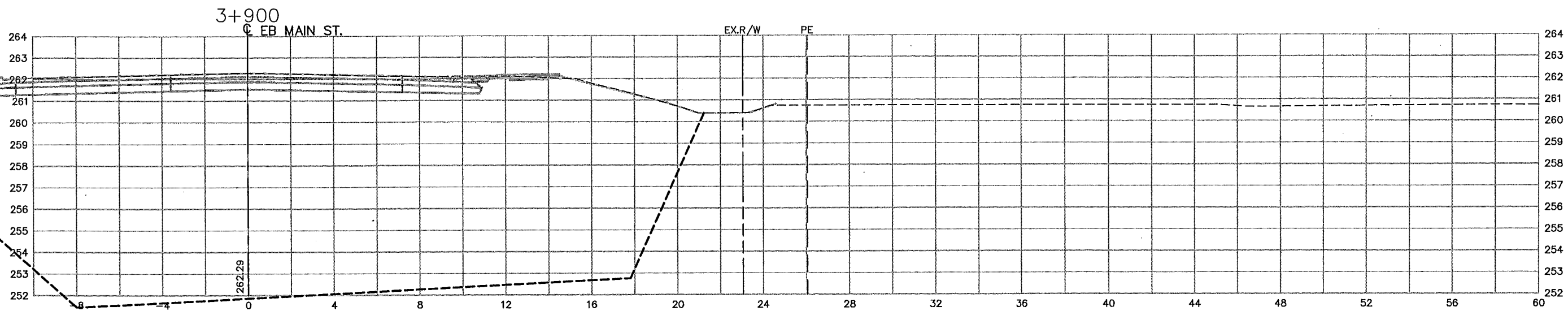
DATE: 11/27/00 MINN. REG. NO. 23211

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)	SHEET NO.
S.A.P. 02 - 614 - 19	A12
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	A17

PLOT DATE: Aug 03 10:01am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\pm-st\PH2xs03.dwg

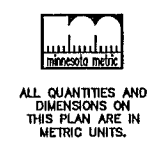
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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JLL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JLL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	BJK	4/13/01	MOD. REQ. #71B: MODIFIED CROSS SECTIONS
4	TSR	2/27/04	AS-BUILT DRAWING

DESIGN FILE: 33889028	DRAWN BY: IKR	DESIGN BY: KPK
CHKD. BY: KPK/PBD	DWG. NAME: PH2XS04	
DATE: NOVEMBER 27, 2000		

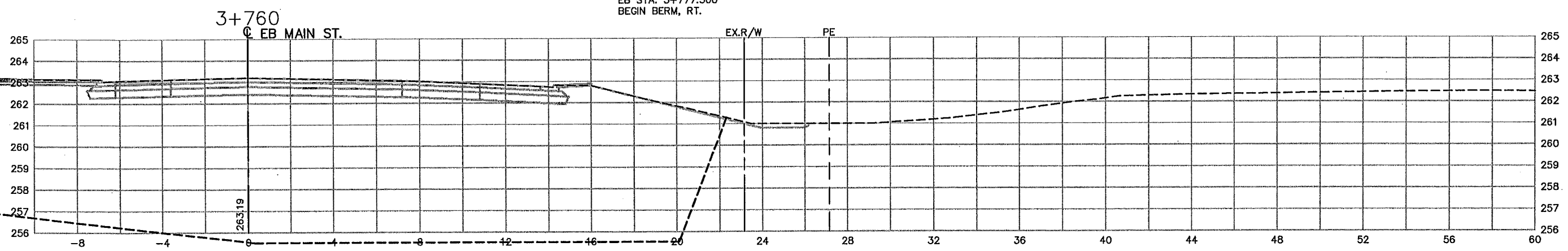
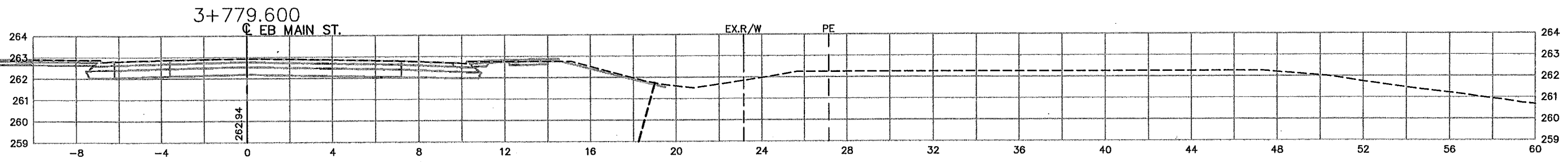
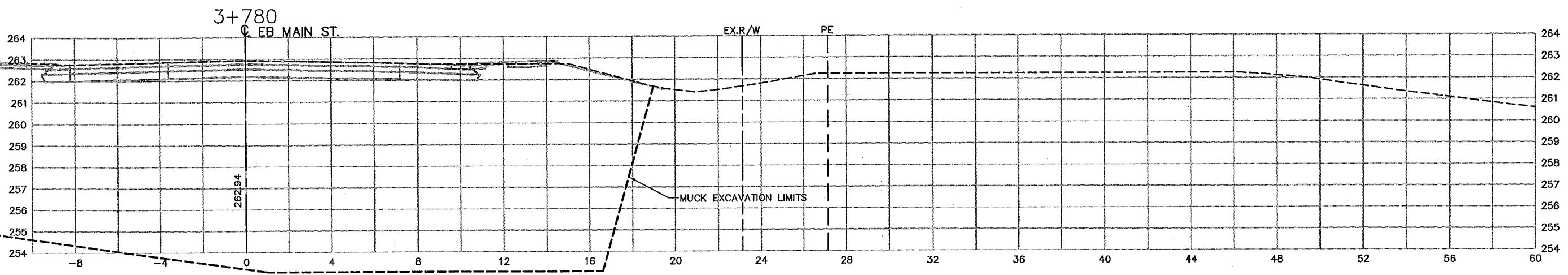
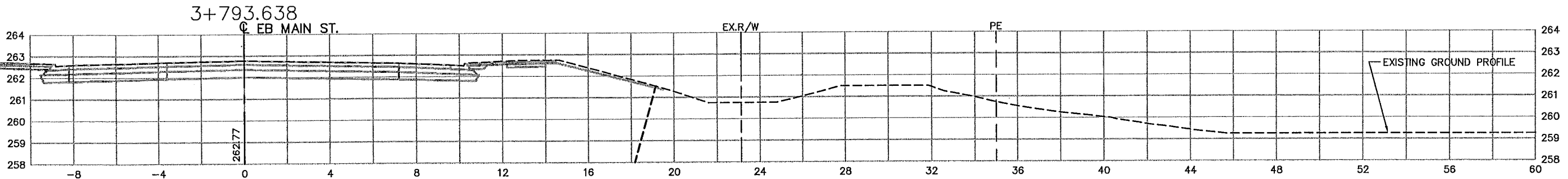


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Kevin P. Kiel
DATE: 11/27/00, MINN. REG. NO. 23211

**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)	SHEET NO.
S.A.P. 02 - 614 - 19	A13
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	A17

PLOT DATE: Aug 05 10:08am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\PH3xs01.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JL	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
CHKD. BY: KPK/PBD	DWG. NAME: PH3XS01
DATE: NOVEMBER 27, 2000	

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700 THIRD STREET SOUTH
MINNEAPOLIS, MN 55415
(612)370-0700 (TEL)
(612)370-1378 (FAX)

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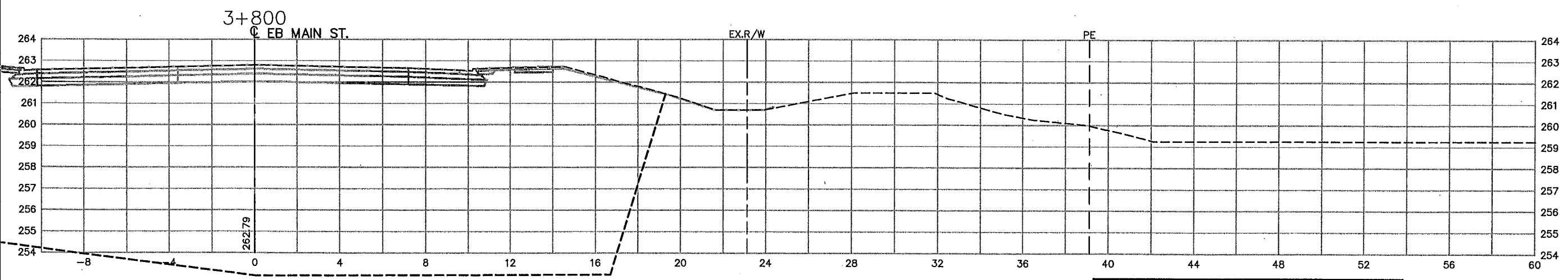
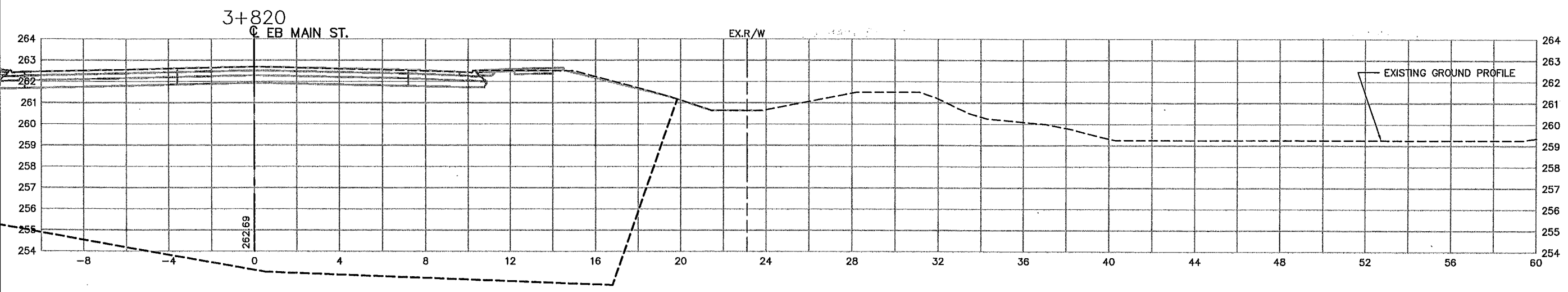
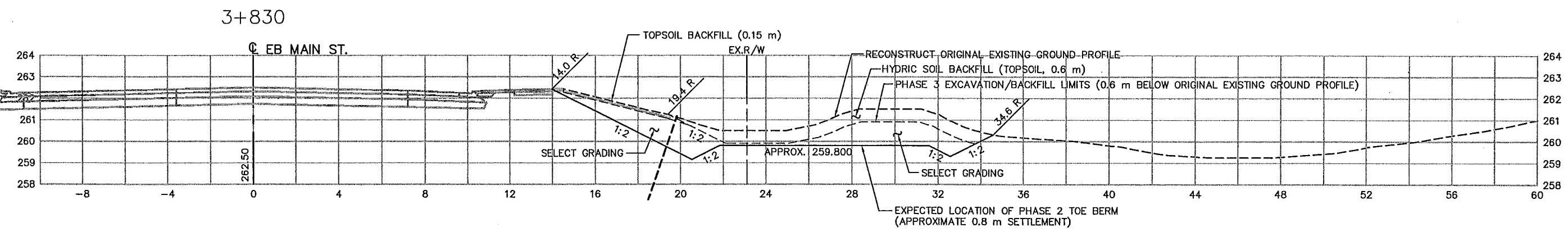
Kevin P. Kullb

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



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PLOT DATE: Aug 03, 2004 10:10am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\pml-sht\PH3xs02.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JL	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
CHKD. BY: KPK/PBD	DWG. NAME: PH3XS02	
DATE: NOVEMBER 27, 2000		



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DCM GROUP
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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)

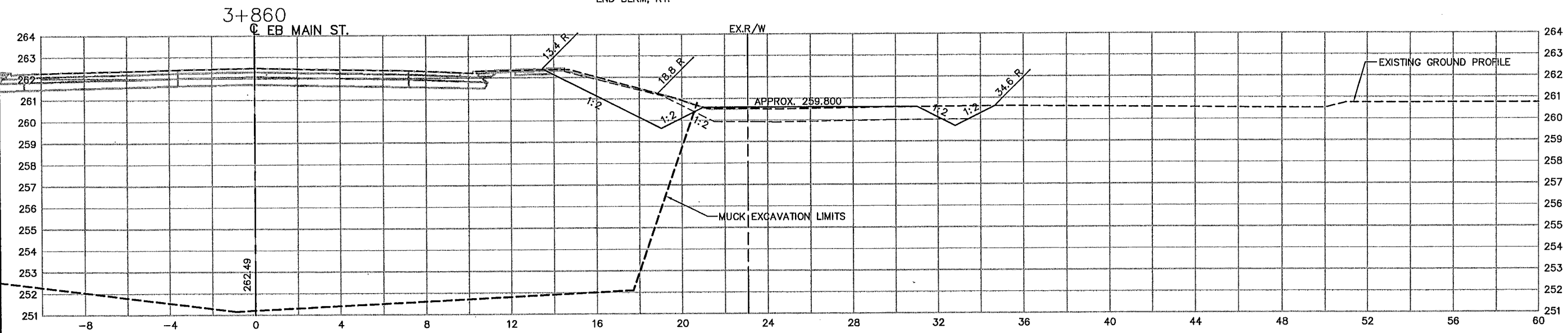
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Kevin P. Kullb
DATE: 11/27/00 MINN. REG. NO. 23211

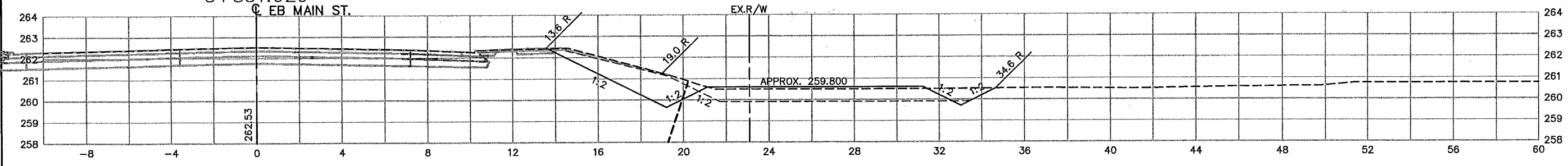
MAIN STREET/T.H. 242 RECONSTRUCTION
EASTBOUND MAIN STREET (T.H. 242)
PHASE 3 TOE BERM CONSTRUCTION
CROSS SECTIONS
STATION 3+800.000 TO STATION 3+840.000
CITY PROJECT 98-20

S.P. 0212-40 (T.H.242=242)	SHEET NO.
S.A.P. 02 - 614 - 19	A15
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	A17
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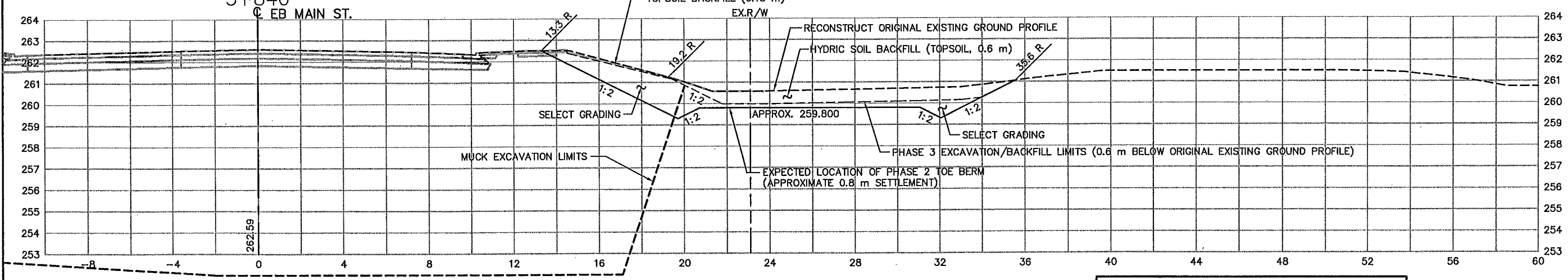
EB STA. 3+860.000
END BERM, RT.



3+851.629
C EB MAIN ST.



3+840
C EB MAIN ST.

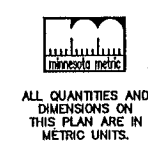


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PLOT DATE: Aug 03, 2004 10:12am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\pin-snt\PH3xs03.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JL	12/11/00	MOD. REQ. #71A: MODIFIED CROSS SECTIONS
3	B.K	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
CHKD. BY: KPK/PBD	DWG. NAME: PH3XS03	
DATE: NOVEMBER 27, 2000		



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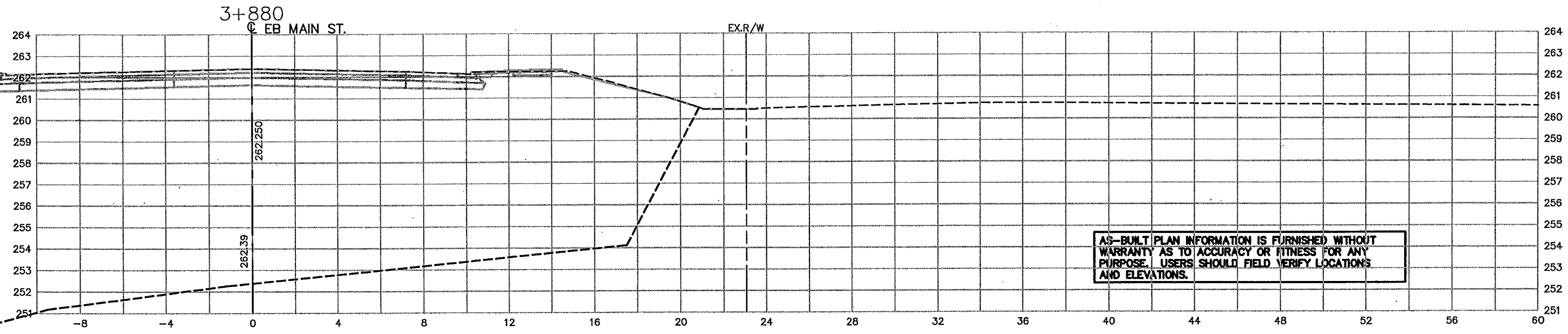
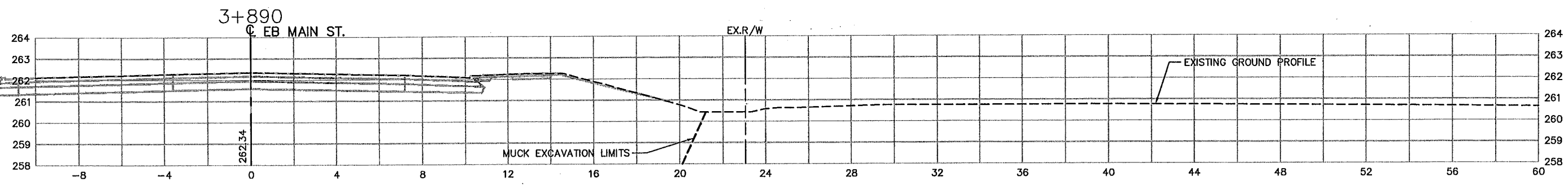
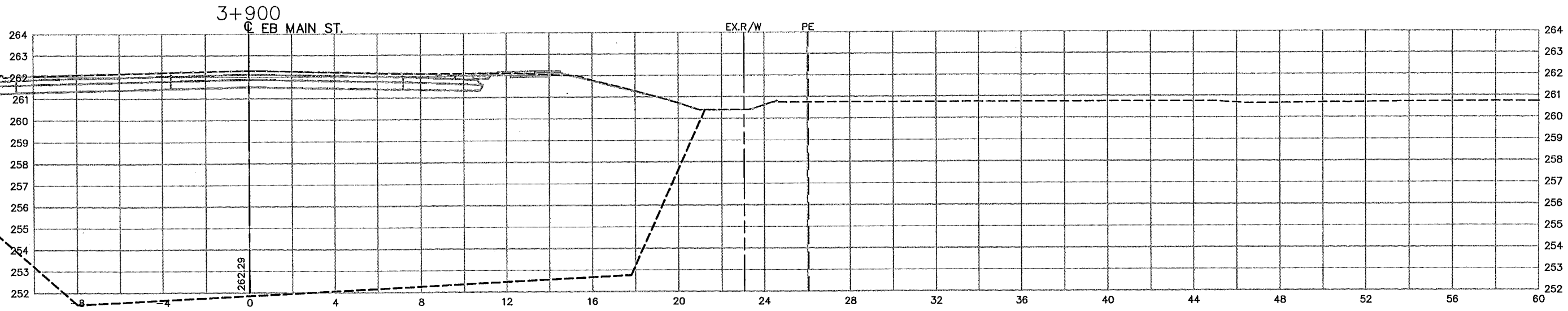
Kevin P. Kiel

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)	SHEET NO.
S.A.P. 02 - 614 - 19	A16
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	A17

PLOT DATE: Aug 03, 2004 10:13am DISK FILE NAME: (15.06) R:\33889\33889028\33889E\Modreq71\PH3xs04.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	JL	11/27/00	MOD. REQ. #71: ADD NEW PLAN SHEET
2	JL	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
CHKD. BY: KPK/PBD	DWG. NAME: PH3XS04	DATE: NOVEMBER 27, 2000



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

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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: 11/27/00, 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)	SHEET NO.
S.A.P. 02 - 614 - 19	A17
S.A.P. 02 - 618 - 24	
S.P. 114 - 010 - 11	
S.A.P. 114 - 020 - 19	
S.A.P. 114 - 136 - 02	
S.A.P. 114 - 127 - 02	A17