

MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

CONSTRUCTION PLAN FOR MILLING, RECLAIMING AND BITUMINOUS SURFACING.

LOCATED ON CSAH 7 / CSAH 24 BETWEEN CR 27 AND 229TH AVE

STATE PROJ. NO. SP-002-607-022

C.S.A.H. 7 / C.S.A.H. 24

GROSS LENGTH	34324.00 FEET	6.50 MILES
BRIDGES-LENGTH	0.00 FEET	0.00 MILES
EXCEPTIONS-LENGTH	0.00 FEET	0.00 MILES
NET LENGTH	34324.00 FEET	6.50 MILES

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MNMUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3-4	TABULATIONS
5-8	TYPICAL SECTIONS
9-11	CONSTRUCTION DETAILS
12-26	PLAN
27	PERMANENT MARKING TABULATION
28-40	TEMPORARY SIGNING & STRIPING PLAN
41-52	PERMANENT SIGNING & STRIPING PLAN
53-54	SIGN REMOVAL AND PERMANENT SIGN MARKER TAB.
55-56	PERMANENT SIGN QUANTITY & TAB.
57	SIGNING & STRIPING DETAILS

THIS PLAN CONTAINS 57 SHEETS

DESIGN DESIGNATION

ESAL 20	885,163
R VALUE	50, FROM CR 27 TO CSAH 22
R VALUE	60, FROM CSAH 22 TO CSAH 24
ADT (2013) =	6404
Proj. ADT (2033) =	10246
Proj. HCADT (2033) =	605
Soil Factor	NA
9	TON DESIGN CR 27 TO CSAH 22
10	TON DESIGN CSAH 22 TO 229TH AVE
Functional Classification	B MINOR
No. of Traffic Lanes	2
Shoulder Width	8.0'
Design Speed	55 MPH (5+00 - 202+38)
Design Speed	50 MPH (202+38 - 313+76)
Design Speed	45 MPH (313+76 - 340+04)
Design Speed	35 MPH (340+04 - 348+24)
Based on Stopping Sight Distance	N/A
Height of eye	3.5'
Height of object	2.0'
Design Speed not achieved at:	
STA. 8+84	TO STA. 15+16 MPH 50
STA. 13+56	TO STA. 20+95 MPH 50
STA. 24+74	TO STA. 30+34 MPH 50

PLAN SYMBOLS

- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT OF WAY LINE
- SLOPE EASEMENT
- EXISTING RIGHT OF WAY
- PROPERTY LINE
- CORPORATE OR CITY LIMITS
- RETAINING WALL
- RAILROAD
- RAILROAD RIGHT OF WAY
- RIVER OR CREEK
- DRAINAGE DITCH
- CULVERT
- DROP INLET
- GUARD RAIL
- BARBED WIRE FENCE
- WOVEN WIRE FENCE
- CHAIN LINK FENCE
- WOOD FENCE
- STONE WALL OR FENCE
- HEDGE
- LOWLAND
- TIMBER
- ORCHARD
- BRUSH
- NURSERY
- CATTLE GUARD
- OVERPASS (Highway Over)
- UNDERPASS (Highway Under)
- BRIDGE
- BUILDING (One Story Frame)
- F-FRAME C-CONCRETE
- S-STONE T-TILE
- B-BRICK ST-STUCCO
- RAILROAD CROSSING BELL
- RAILROAD CROSSING GATE
- MANHOLE
- CATCH BASIN
- FIRE HYDRANT
- CAST IRON MONUMENT
- IRON PIN
- GRAVEL PIT
- SAND PIT
- BORROW PIT
- ROCK QUARRY

UTILITY SYMBOLS

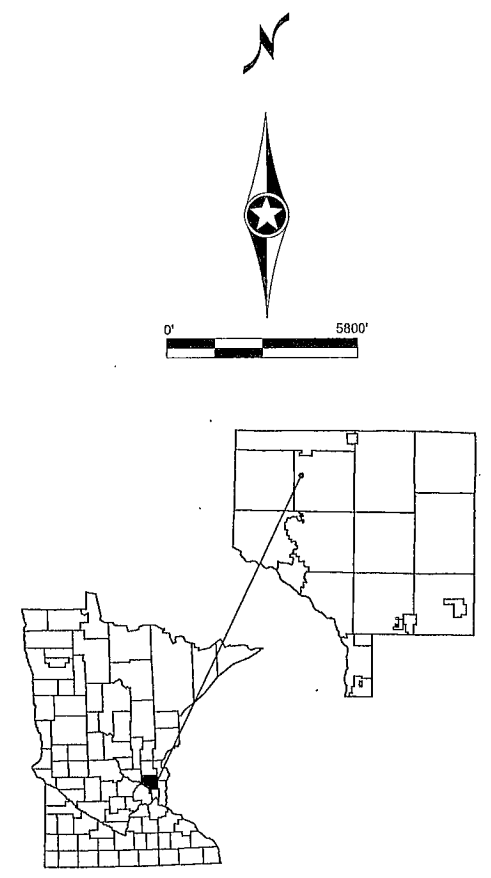
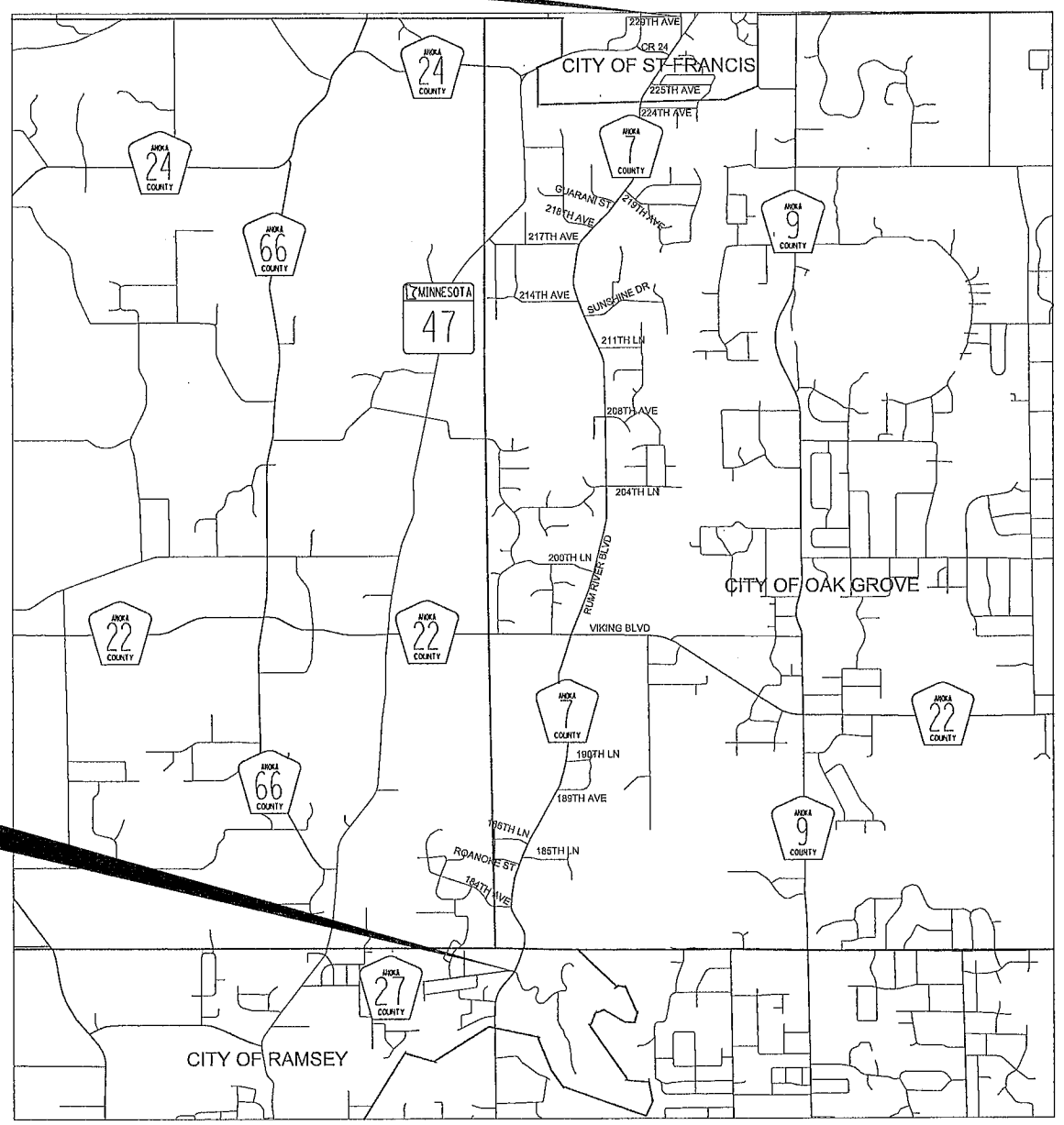
- POWER POLE LINE
- TELEPHONE OR TELEGRAPH POLE LINE
- JOINT TELEPHONE & POWER ON POWER POLES
- ON TELEPHONE POLES
- ANCHOR
- STEEL TOWER
- STREET LIGHT
- PEDESTAL (Cable Terminal)
- GAS MAIN
- WATERMAIN
- TELEPHONE CABLE IN CONDUIT
- ELECTRIC CABLE IN CONDUIT
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- BURIED TELEPHONE CABLE
- BURIED ELECTRIC CABLE
- SEWER (Sanitary or Storm)
- SEWER MANHOLE

SCALES

- PLAN: 0' to 100'
- PROFILE HORIZONTAL: 0' to 100'
- VERTICAL: 0' to 10'
- X-SECTIONS HORIZONTAL: 0' to 10'
- VERTICAL: 0' to 10'
- INDEX MAP: 0' to 8,750'

END S.P. 002-607-022
STA. 348+24.00

BEGIN S.P. 002-607-022
STA. 5+00.00



CITIES OF
ST FRANCIS, OAK GROVE
RAMSEY

ANOKA COUNTY
CITY OF ST FRANCIS
CITY OF OAK GROVE
CITY OF RAMSEY
MN/DOT TRANSPORTATION
DISTRICT - METRO
OAK GROVE
SECTIONS 5,6,7,18,19,30,31
TOWNSHIP 33 NW
RANGE 24 W
ANDOVER
SECTION 6
TOWNSHIP 32 NW
RANGE 24 W

Approved: *[Signature]* 6/17/2013
ANOKA COUNTY ENGINEER

Approved: *[Signature]* 6/19/2013
CITY OF ST FRANCIS

Approved: *[Signature]* 6/17/2013
CITY OF OAK GROVE

Approved: *[Signature]* 6/18/2013
CITY OF RAMSEY

[Signature] 6/20/2013
DISTRICT STATE AID ENGINEER

[Signature] 6/20/2013
STATE AID ENGINEER

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan1_TITILE.dgn 06/14/2013 11:46:56 AM

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

PRINT NAME: ANDREW WITTER

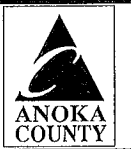
SIGNATURE: *[Signature]*

DATE: 6/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013

DESIGN BY JF DATE 4/19/2013

CHECKED BY GA DATE 4/22/2013



**ANOKA COUNTY
HIGHWAY DEPT.**

SP 002-607-022

TITLE SHEET

Sheet 1 of 57 Sheets

STATEMENT OF ESTIMATED QUANTITIES					SP 002-607-022
TAB	NOTE NO.	ITEM NO.	ITEM	UNIT	TOTAL EST. QUANT.
		2021.501	MOBILIZATION	LUMP SUM	1
A	1	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	24
B	2	2104.505	REMOVE BITUMINOUS PAVEMENT	SQ YD	259
	29	2104.509	REMOVE SIGN TYPE C	EACH	179
C	3	2104.511	SAWING CONCRETE PAVEMENT FULL DEPTH	LIN FT	17
D	4	2104.513	SAWING BITUMINOUS PAVEMENT FULL DEPTH	LIN FT	443
E	5	2105.525	TOPSOIL BORROW (LV)	CU YD	110
F	6	2123.503	MOTOR GRADER	HOURL	6
G	7	2123.521	PNEUMATIC-TIRED ROLLER	HOURL	6
H	8	2130.501	WATER	M-GALLON	20
I	9	2211.501	AGGREGATE BASE CLASS 5	TON	140
J	10	2221.501	AGGREGATE SHOULDERING CLASS 5	TON	1048
K	11	2232.501	MILL BITUMINOUS SURFACE (0.5")	SQ YD	57133
L	12	2232.501	MILL BITUMINOUS SURFACE (1.0")	SQ YD	2649
M	13	2232.501	MILL BITUMINOUS SURFACE (2.0")	SQ YD	2179
N	14	2331.604	BITUMINOUS PAVEMENT RECLAMATION	SQ YD	6734
O	15	2331.607	HAUL BIT PAVEMENT RECLAMATION (LV)	CU YD	200
P	16	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	8032
Q	17	2360.501	TYPE SP 12.5 WEARING COURSE MIX (4 , B)	TON	80
R	18	2360.501	TYPE SP 12.5 WEARING COURSE MIX (4 , E)	TON	18113
S	19	2506.522	ADJUST FRAME & RING CASTING	EACH	2
T	20	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	24
U	21	2535.501	BITUMINOUS CURB	LIN FT	190
V	22	2540.602	MAIL BOX SUPPORT	EACH	74
	23	2563.601	TRAFFIC CONTROL	LUMP SUM	1
W	24	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	28
	30	2564.531	SIGN PANNELS TYPE C	SQ FT	995.4
	31	2564.550	DELINEATOR X4-13	EACH	55
	31	2564.553	CLEARANCE MARKER X4-4	EACH	6
	31	2564.554	SNOW PLOW MARKER	EACH	11
X	25	2575.523	EROSION CONTROL BLANKETS CATEGORY 00	SQ YD	2620
Y	26	2581.501	REMOVABLE PREFORMED PLASTIC MARKING	LIN FT	1452
	27	2582.502	4" SOLID LINE YELLOW - PAINT	LIN FT	7700
	27	2582.502	4" BROKEN LINE YELLOW-PAINT	LIN FT	3960
	27	2582.502	4" DOUBLE SOLID LINE YELLOW - PAINT	LIN FT	1200
	28	2582.502	4" SOLID LINE WHITE - EPOXY	LIN FT	71600
	28	2582.502	4" BROKEN LINE WHITE-EPOXY	LIN FT	80
	28	2582.502	4" SOLID LINE YELLOW - EPOXY	LIN FT	7850
	28	2582.502	4" BROKEN LINE YELLOW-EPOXY	LIN FT	5310
	28	2582.502	4" DOUBLE SOLID LINE YELLOW - EPOXY	LIN FT	8450

NOTES

- CONCRETE DR WAY #19881 TO BE SAWCUT, CONCRETE REMOVED, GRVL ADDED AS NECESSARY AND CONCRETE REPAVED. LOCATION OF SAWCUT AND AREA TO BE CONCRETED TO BE DETERMINED BY ENGINEER.
- BITUMINOUS DR WAYS , BEG. AND END OF RECLAIM AND STREET APPROACHES IN RECLAIM AREA TO BE SAWCUT. LOCATION OF SAWCUT TO BE DETERMINED BY ENGINEER.
- DR WAY # 19881, LOCATION OF CONCRETE SAWCUT TO BE DETERMINED BY ENGINEER.
- BITUMINOUS DR WAYS IN RECLAIM AREA TO BE SAWCUT, BITUMINOUS REMOVED, GRVL ADDED AS NECESSARY AND REPAVED. LOCATION OF SAWCUT AND AREA TO BE PAVED TO BE DETERMINED BY ENGINEER.
- IN RECLAIM AREA, TOPSOIL TO BE USED TO TIE IN NEW SH-PI TO EXISTING INSLOPE AND BEHIND BIT CURB, AS DIRECTED BY ENGINEER.
- INCLUDES TIME AND EQUIPMENT TO REMOVE EXCESS RECLAIMED MATERIAL AT BEG. AND END OF RECLAIM AREAS FOR SMOOTH TRANSITION TO EXISTING BITUMINOUS. FINAL SHAPING AND MAINTENANCE OF RECLAIMED ROADWAY INCIDENTAL TO ITEM.
- INCLUDES TIME AND EQUIPMENT TO COMPACT RECLAIMED MATERIAL AT BEG. AND END OF RECLAIM AREAS FOR SMOOTH TRANSITION TO EXISTING BITUMINOUS. FINAL SHAPING AND MAINTENANCE OF RECLAIMED ROADWAY INCIDENTAL TO ITEM.
- WATER TO BE USED AS DUST CONTROL IN RECLAIM AREA , AT THE DESCRETION OF THE ENGINEER.
- 5 TONS AGGREGATE BASE CLASS 5 FOR ALL INPLACE GRAVEL DRIVEWAYS , AND USED AS NEEDED TO RAISE GRADE OF BITUMINOUS DRIVEWAYS WITHIN RECLAIM AREA PRIOR TO REPAVING, AT THE DESCRETION OF THE ENGINEER.
- SHOULDERING CLASS 5 FOR FINISHED 1.5' GRVL. SHLDR.(CALC. AT 4" DEPTH) WITHIN RECLAIM AREA STA. 333+50 - 348+24.
- PROFILE MILL (0.5")DRIVING LANES (25' WIDE) FROM STA. 125+22 - 333+50.
- EDGE MILL ALONG ALL INPLACE CONCRETE CURB (6" WIDE MILL TAPERING FROM 0.0" TO 1" AT LIP OF CURB.
- 2" DEEP BY 4' WIDE MILL AT BEGINNING AND END OF PROJECT AND ALL PAVED ST APPROACHES NOT IN RECLAIM AREA . BITUMINOUS DRIVEWAYS AND BITUMINOUS FLUMES NOT IN RECLAIM AREA ARE TO HAVE A 2' WIDE BY 2" DEEP MILL JOINT. BITUMINOUS STREET APPROACHES NOT IN RECLAIM AREA ARE TO HAVE A 4' WIDE BY 2" DEEP MILL JOINT , PAVED IN SAME PROCESS AS SHOULDERS (BUMP OUT 4') AND PAID FOR AS MAINLINE WEAR. LOCATION OF JOINT TO BE DETERMINED BY THE ENGINEER.
- FULL DEPTH RECLAMATION FROM STA 333+50 TO STA. 348+24
- EXCESS RECLAIM MATERIAL FROM BEGINNING AND END OF RECLAIM FROM TRANSITIONS TO BE HAULED AND USED AS NEEDED INSIDE RECLAIM AREA. MATERIAL NOT TO LEAVE PROJECT LIMITS.
- BITUMINOUS TACK COAT TO BE APPLIED TO ALL BITUMINOUS SURFACES PRIOR TO PAVING
- WEARING COURSE (4 , B) FOR STREET APPROACH / BITUMINOUS DRIVE WAYS INSIDE RECLAIM AREA , STA. 333+50 - 348+24.
- WEARING COURSE(4 , E) ALL WEAR SURFACE. STA. 5+00 - 348+24 AND BASE COURSE IN RECLAIM AREA 333+50 - 348+24. ITEM INCLUDES CONSTRUCTION OF SAFTY EDGE, SEE SHEET 10 FOR DETAIL. REFER TO SPECIAL PROVISIONS.
- EXISTING SANITARY MANHOLES TO BE ADJUSTED TO NEW BITUMINOUS SURFACE BY CONTRACTOR. EXISTING TELE - MANHOLES TO BE ADJUSTED BY TELE - COMPANY, CONTRACTOR TO COORDINATE WITH TELE. COMPANY.
- CONCRETE DRIVEWAY # 19881 TO BE SAWCUT, REMOVED AND REPAVED WITH 6" CONCRETE DRIVEWAY PAVEMENT LOCATION OF SAWCUT / REMOVAL TO BE DETERMINED BY THE ENGINEER.
- BITUMINOUS CURB IN RECLAIMED AREA TO BE REINSTALLED IN SAME LOCATION. BITUMINOUS BASE COURSE TO BE PAVED WIDER IN CURB AREA TO ALLOW BITUMINOUS CURB TO SIT ON AND BE LOCKED IN BY BINDER COURSE. SEE SHEET 10 FOR BITUMINOUS CURB DETAIL.
- NEW MAILBOXES TO BE INSTALLED AT THE EXISTING MAILBOX LOCATION. MAILBOX AND INSTALLATION INCIDENTAL TO ITEM. CONTRACTORS RESPONSIBILITY TO COORDINATE WITH LOCAL POSTAL AUTHORITY.
- " ALL TRAFFIC CONTROL METHODS SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. " DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE AND UN-EVEN LANE SIGNS TO BE INPLACE DURING MILLING, RECLAIMING / PAVING OPERATIONS.
- CONSTRUCTION NOT TO TAKE PLACE PRIOR TO THE WEEK OF 06/07/2013 , ST FRANCIS PIONEER DAYS. 4 - MESSAGE BOARDS, ONE ON EACH END OF PROJECT AND 2 BOARDS, 1 -N.B. AND 1 S.B. AT CSAH 22. WILL BE INSTALLED 7-DAYS PRIOR TO ANY CONSTRUCTION. REFERENCE " TRAFFIC CONTROL QUANTITIES" SECTION OF THIS PLAN FOR DETAILS.
- IN RECLAIM AREA , PLACED ON INSLOPE NEW TOPSOIL. AND BEHIND BIT CURB. PLACEMENT,SEED AND FERTILIZER INCIDENTAL TO EROSION CONTROL BLANKET CAT 00 SEED MIXTURE 250 (RATE - 70 LBS PER ACRE) AND FERTILIZER TYP 3 (RATE - 350 LBS PER ACRE)
- CL YLW SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON EACH LIFT (MUST BE APPLIED BEFORE CONTRACTOR LEAVES FOR THE DAY). THE CONTRACTOR WILL REMOVE ALL CL SKIPS PRIOR TO THE FINAL PAINT STRIPPING.
- TEMPORARY CENTER LINE STRIPING STA. 125+22 - 333+50. AFTER 0.5" MAINLINE MILL. LATEX PAINT & REFLECTIVE GLASS BEADS. STRIPING TO MATCH INPLACE CENTERLINE STRIPING, INCLUDING HAZARDS.
- PERMANENT MARKINGS TO BE IN PLACE WITHIN 72 HOURS OF FINAL MAINLINE PAVING.
- SEE SHEET 54 FOR TABULATIONS.
- PAID AT THE CONTRACT PRICE PER SQ FT SHALL BE COMPENSATION IN FULL FOR ALL WORK, INSTALLATION, MATERIALS (INCLUDING CHANNEL POSTS) AND COSTS INVOLVED IN PERFORMING THE WORK AS SPECIFIED IN THIS PLAN. SEE SHEETS 54 - 55 FOR QTY'S, AND SPECIAL PROVISIONS.
- PAID AT THE CONTRACT PRICE PER EACH SHALL BE COMPENSATION IN FULL FOR ALL WORK, INSTALLATION, MATERIALS (INCLUDING CHANNEL POSTS) AND COSTS INVOLVED IN PERFORMING THE WORK AS SPECIFIED IN THIS PLAN. SEE SHEETS 54 - 55 FOR QTY'S, AND SPECIAL PROVISIONS.

TAB INDEX

A	REMOVE CONCRETE DRIVEWAY PAVEMENT
B	REMOVE BITUMINOUS PAVEMENT
C	SAWING CONCRETE PAVEMENT FULL DEPTH
D	SAWING BITUMINOUS PAVEMENT FULL DEPTH
E	TOPSOIL BORROW
F	MOTOR GRADER
G	PNEUMATIC-TIRED ROLLER
H	WATER
I	AGGREGATE BASE CLASS 5
J	AGGREGATE SHOULDERING CLASS 5
K	MILL BITUMINOUS SURFACE 0.5"
L	MILL BITUMINOUS SURFACE 1.0"
M	MILL BITUMINOUS SURFACE 2.0"
N	BITUMINOUS PAVEMENT RECLAMATION
O	HAUL BITUMINOUS RECLAMATION
P	BITUMINOUS MATERIAL FOR TACK
Q	TYPE SP 12.5 WEARING COURSE MIX (4 , B)
R	TYPE SP 12.5 WEARING COURSE MIX (4 , E)
S	ADJUST FRAME & RING CASTING
T	6" CONCRETE DRIVEWAY PAVEMENT
U	BITUMINOUS CURB
V	MAIL BOX SUPPORT
W	PORTABLE CHANGEABLE MESSAGE BOARD
X	EROSION CONTROL BLANKETS CATEGORY 00
Y	REMOVABLE PREFORMED PLASTIC MARKING

BASIS OF QUANTITIES

ITEM	RATE
TOPSOIL BORROW	LENGTH * END AREA (4.0" TO 0.0" * 6.0')/27 = CU YDS
WATER	M-GALLON
AGGREGATE BASE CLASS 5	5 TONS / GRAVEL ENT - F.E.
AGGREGATE SHOULDERING CLASS 5	LENGTH * WIDTH * DEPTH / 27 = CU YDS * 1.8 (CV)
BITUMINOUS MATERIAL FOR TACK COAT	0.05 GALLONS / SQ YD
TYPE SP 12.5 WEARING COURSE MIX (4,B)	SQ YDS * INCHES * 115LBS / 2000 = TONS
TYPE SP 12.5 WEARING COURSE MIX (4,E)	SQ YDS * INCHES * 115LBS / 2000 = TONS
SEED MIXTURE 250	70LBS / ACRE
FERTILIZER TYP 3	350LBS / ACRE

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

STANDARD PLATES

PLATE NO.	DESCRIPTION
9350 A	MAILBOX SUPPORT (SWING AWAY TYPE)
80001	STANDARD BARRICADES

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

PRINT NAME: ANDREW WITTER
 SIGNATURE: *[Signature]*
 DATE: 4/13/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013

DESIGN BY JF DATE 4/19/2013

CHECKED BY GA DATE 4/22/2013



ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

STATEMENT OF ESTIMATED QUANTITIES

Sheet 2 of 57 Sheets

A REMOVE CONCRETE DRIVEWAY PAVEMENT	
LOCATION	SQ YDS
# 19881	24
TOTAL SQ YDS	24

B REMOVE BITUMINOUS PAVEMENT	
LOCATION	SQ YDS
MH- SAN	4
22705	17
PARK ENT	39
22733	41
MH- SAN	4
CHURCH	57
22815	28
22855 / 22871	69
TOTAL SQ YDS	259

C SAWING CONCRETE PAVEMENT FULL DEPTH	
LOCATION	LIN FT
19881	17
TOTAL LIN FT	17

D SAWING BITUMINOUS PAVEMENT FULL DEPTH	
LOCATION	LIN FT
19881	30
MAINLINE STA. 333+50	45
CSAH 24	77
MH	24
22705	12
PARK ENT	19
22733	29
MH	24
RUM RIVER BLVD	57
CHURCH	30
22815	14
22855 / 22871	54
MAINLINE STA. 348+24	28
TOTAL LIN FT	443

E TOPSOIL BORROW					
MAINLINE	STATION	STATION	LENGTH	END AREA 4" - 0" X 6"	CU YDS
LNB	333+50	348+24	1474	1	55
LSB	333+50	348+24	1474	1	55
TOTAL CU YDS					110

F MOTOR GRADER	
LOCATION	HRS
STA 333+50 - 348+24	6
TOTAL HOURS	6

G PNEUMATIC-TIRED ROLLER	
LOCATION	HRS
STA 333+50 - 348+24	6
TOTAL HOURS	6

H WATER						
MAINLINE	STA	STA	LENGTH	MILES	M-GAL/MILE	M-GAL
	333+50	348+24	1474.0	0.28	70.0	20
TOTAL M-GAL						20

I AGGREGATE BASE CLASS 5					
ADDRESS	STATION	LOC.			TONS
FE	73+90	RT			5
4400	77+70	RT			5
FE	97+90	LT			5
19130	101+20	RT			5
FE	104+50	LT			5
FE	111+20	LT			5
FE	141+90	RT			5
FE	159+25	RT			5
FE	159+50	LT			5
FE	167+50	RT			5
20730	192+90	LT			5
FE	195+00	LT			5
FE	213+00	RT			5
21036	218+00	LT			5
FE	227+00	LT			5
21231 / 21261	230+40	RT			5
FE	258+80	RT			5
21913	281+00	RT			5
22120	284+10	LT			5
FE	296+30	RT			5
22708	337+70	LT			5
PARK ENT	339+50	LT			5
22733	339+90	RT			5
22746	341+00	LT			5
F.E.	341+75	RT			5
CHURCH	344+60	LT			5
22815	344+70	RT			5
22855 / 22871	346+75	RT			5
TOTAL TONS					140

J AGGREGATE SHOULDERING CLASS 5						
MAINLINE	STATION	STATION	LENGTH	WIDTH	DEPTH	CU YDS
LNB	5+00	125+22	12022	1.5	0.17	114
LSB	5+00	125+22	12022	1.5	0.17	114
LNB	125+22	333+50	20828	1.5	0.13	150
LSB	125+22	333+50	20828	1.5	0.13	150
LNB	333+50	348+24	1474.0	1.5	0.33	27
LSB	333+50	348+24	1474.0	1.5	0.33	27
SUB CU YDS						582
(CV) FACTOR X						1.8
TOTAL TONS						1048

K MILL BITUMINOUS SURFACE 0.5"					
LOCATION	STATION	STATION	LENGTH	WIDTH	SQ YDS
MAINLINE	125+22	173+13	14791	25	41086
MAINLINE	275+73	333+50	5777	25	16047
TOTAL SQ YDS					57133

L MILL BITUMINOUS SURFACE 1.0"					
LOCATION	STATION	STATION	LENGTH	WIDTH	SQ YDS
LIP CONC CURB	125+00	127+60	260.0	6.0	173
LIP CONC CURB	133+40	136+38	298.0	6.0	199
LIP CONC CURB	141+43	143+16	173.0	6.0	115
LIP CONC CURB	188+00	195+14	714.0	6.0	476
LIP CONC CURB	206+10	209+13	303.0	6.0	202
LIP CONC CURB	215+95	218+36	241.0	6.0	161
LIP CONC CURB	225+39	228+00	261.0	6.0	174
LIP CONC CURB	229+50	232+65	315.0	6.0	210
LIP CONC CURB	240+51	242+90	239.0	6.0	159
LIP CONC CURB	258+21	261+20	299.0	6.0	199
LIP CONC CURB	278+40	284+20	580.0	6.0	387
LIP CONC CURB	280+60	283+50	290.0	6.0	193
TOTAL SQ YDS					2649

M MILL BITUMINOUS SURFACE 2.0"					
LOCATION	STATION	LOC.	LENGTH	WIDTH	SQ YDS
CSAH 7	5+00	CENTER	48	4	21
17964	6+50	LT	28	2	6
18055	10+00	RT	21	2	5
18090	11+70	LT	26	2	6
18021	20+60	LT	20	2	4
18213	20+70	RT	20	2	4
183RD AVE	28+10	LT	48	4	21
18305	28+10	RT	26	2	6
18320	29+00	LT	20	2	4
18340	31+10	LT	21	2	5
18350	32+20	LT	21	2	5
18350	33+10	LT	22	2	5
18400	33+90	LT	22	2	5
18420	36+30	LT	22	2	5
18425	38+50	RT	22	2	5
18435	39+50	RT	23	2	5
18475	42+50	RT	26	2	6
185TH LN	42+60	LT	44	4	20
185TH LN	45+40	RT	52	4	23
18555	47+30	RT	20	2	4
186TH LN	50+00	LT	45	4	20
18712	56+00	LT	24	2	5
18844	66+20	LT	23	2	5
189TH AVE	71+00	RT	51	4	23
18909	72+30	RT	21	2	5
18936	74+20	LT	28	2	6
190TH LN	80+90	RT	52	4	23
19059	83+50	RT	22	2	5
19111	85+50	RT	24	2	5
19420	106+20	LT	20	2	4
19625	119+00	RT	23	2	5
19625	120+00	RT	26	2	6
CSAH 22	125+00	LT	89	4	27
CSAH 22	125+00	RT	42	4	19
BIT FLUME	127+60	LT	6	2	1
19761	129+10	RT	22	2	5
19815	133+70	RT	21	2	5
BIT FLUME	136+38	LT	6	2	1
BIT FLUME	141+43	LT	6	2	1
20001	147+25	RT	37	2	8
200TH LN	147+50	LT	44	4	20
20232	161+50	LT	19	2	4
20232	162+80	LT	26	2	6
20315	168+00	LT	16	2	4
20339	170+80	RT	18	2	4
204TH LN	176+80	RT	51	4	23
204TH LN	176+80	LT	56	4	25
20531 / 20575	184+10	RT	19	2	4
BIT FLUME	195+14	RT	6	2	1
208TH AVE	200+00	LT	59	4	26
208TH AVE	200+00	RT	48	4	21
BIT FLUME	209+13	LT	6	2	1
210TH AVE	212+58	LT	51	4	23
BIT FLUME	215+95	LT	6	2	1
211TH LN	223+50	RT	59	4	26
BIT FLUME	225+39	RT	6	2	1
BIT FLUME	228+00	RT	6	2	1
BIT FLUME	232+65	LT	6	2	1
SUNSHINE DR	235+50	RT	49	4	22
BIT FLUME	240+51	RT	6	2	1
214TH AVE	240+90	LT	55	4	24
21430	243+00	LT	18	2	4
21470	245+00	LT	21	2	5
21470	245+70	LT	22	2	5
21517	249+50	RT	18	2	4
21530	249+70	LT	20	2	4
21567	253+20	RT	18	2	4
21617	256+30	RT	16	2	4
21658	258+80	LT	15	2	3
217TH AVE	260+50	LT	53	4	24
BIT FLUME	261+20	RT	6	2	1
218TH AVE	267+50	LT	56	4	25
21815	272+00	RT	18	2	4
SEELEY BRIDGE	273+13 - 275+73	CENTER	260	45	1300
BIT FLUME	278+40	RT	6	2	1
219TH AVE	279+00	LT	46	4	20
BIT FLUME	280+60	LT	6	2	1
219TH AVE	284+50	RT	49	4	22
22008	286+00	LT	19	2	4
22070	291+10	LT	17	2	4
22055	292+50	RT	24	2	5
22070	293+20	LT	17	2	4
22208	299+30	LT	23	2	5
22231	302+90	RT	22	2	5
22313	307+10	RT	19	2	4
22310	307+40	LT	23	2	5
22340	308+20	LT	22	2	5
224TH AVE	313+80	RT	49	4	22
22390	313+90	LT	20	2	4
22430	315+10	LT	18	2	4
22470	317+90	LT	21	2	5
225TH LN	323+10	RT	61	4	27
22590	323+10	LT	54	2	12
22590	327+50	LT	31	2	7
227TH AVE	331+00	RT	58	4	26
CSAH 24	348+24	CENTER	30	4	13
TOTAL SQ YDS					2179

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan3_TABS.dgn 05/31/2013 3:05:10 PM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*


DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013

DESIGN BY JF DATE 4/19/2013

CHECKED BY GA DATE 4/22/2013

ANOKA COUNTY
HIGHWAY DEPT.



SP 002-607-022

TABULATIONS

Sheet 3 of 57 Sheets

N BITUMINOUS PAVEMENT RECLAMATION				
LOCATION	STATION	STATION		MICRO
MANLINE	333+50	348+24		6734
TOTAL SQ YDS				6734

O HAUL BITUMINOUS PAVEMENT RECLAMATION				
LOCATION	STATION	STATION		MICRO
MANLINE	333+50	348+24		200
TOTAL CU YDS				200

P BITUMINOUS MATERIAL FOR TACK						
ALL	STA	STA		SQ YDS	GALS/SQYD	GAL
CEN	5+00	125+22		56618	0.05	2830.9
SHL	125+22	333+50		57856	0.05	2892.8
WEAR	125+22	333+50		37755	0.05	1887.8
BASE	333+50	348+24		6733	0.05	336.7
				TOTAL GAL 8032		

ADDRESS	STA	LOC	SQ YDS	GALS/SQYD	GAL
17964	6+50	LT	15	0.05	0.8
18055	10+00	RT	15	0.05	0.8
18090	11+70	LT	18	0.05	0.9
18021	20+60	LT	16	0.05	0.8
18213	20+70	RT	14	0.05	0.7
183RD AVE	28+10	LT	33	0.05	1.7
18305	28+10	RT	23	0.05	1.2
18320	29+00	LT	15	0.05	0.8
18340	31+10	LT	15	0.05	0.8
18350	32+20	LT	16	0.05	0.8
18350	33+10	LT	16	0.05	0.8
18400	33+90	LT	16	0.05	0.8
18420	36+30	LT	16	0.05	0.8
18425	38+50	RT	16	0.05	0.8
18435	39+50	RT	17	0.05	0.9
18475	42+50	RT	18	0.05	0.9
185TH LN	42+60	LT	32	0.05	1.6
185TH LN	45+40	RT	35	0.05	1.8
18555	47+30	RT	14	0.05	0.7
186TH LN	50+00	LT	31	0.05	1.6
18712	56+00	LT	17	0.05	0.9
18844	66+20	LT	16	0.05	0.8
189TH AVE	71+00	RT	35	0.05	1.8
18909	72+30	RT	14	0.05	0.7
18936	74+20	LT	21	0.05	1.1
190TH LN	80+90	RT	35	0.05	1.8
19059	83+50	RT	15	0.05	0.8
19111	85+50	RT	17	0.05	0.9
19420	106+20	LT	15	0.05	0.8
19625	119+00	RT	15	0.05	0.8
19625	120+00	RT	17	0.05	0.9
CSAH 22	125+00	INCLUDED IN MANLINE			
CSAH 22	125+00	INCLUDED IN MANLINE			
19761	129+10	RT	15	0.05	0.8
19815	133+70	RT	15	0.05	0.8
20001	147+25	RT	26	0.05	1.3
200TH LN	147+50	LT	33	0.05	1.7
20232	161+50	LT	15	0.05	0.8
20232	162+80	LT	19	0.05	1.0
20315	168+00	LT	13	0.05	0.7
20339	170+80	RT	12	0.05	0.6
204TH LN	176+80	RT	35	0.05	1.8
204TH LN	176+80	LT	38	0.05	1.9
20531 / 20575	184+10	RT	14	0.05	0.7
208TH AVE	200+00	LT	40	0.05	2.0
208TH AVE	200+00	RT	34	0.05	1.7
210TH AVE	212+58	LT	35	0.05	1.8
211TH LN	223+50	RT	40	0.05	2.0
SUNSHINE DR	235+50	RT	34	0.05	1.7
214TH AVE	240+90	LT	39	0.05	2.0
21430	243+00	LT	14	0.05	0.7
21470	245+00	LT	15	0.05	0.8
21470	245+70	LT	16	0.05	0.8
21517	249+50	RT	13	0.05	0.7
21530	249+70	LT	15	0.05	0.8
21567	253+20	RT	14	0.05	0.7
21617	256+30	RT	11	0.05	0.6
21658	258+80	LT	11	0.05	0.6
217TH AVE	260+50	LT	36	0.05	1.8
218TH AVE	267+50	LT	39	0.05	2.0
21815	272+00	RT	14	0.05	0.7
219TH AVE	279+00	LT	32	0.05	1.6
219TH AVE	284+50	RT	34	0.05	1.7
22008	286+00	LT	14	0.05	0.7
22070	291+10	LT	15	0.05	0.8
22055	292+50	RT	17	0.05	0.9
22070	293+20	LT	13	0.05	0.7
22208	299+30	LT	17	0.05	0.9
22231	302+90	RT	15	0.05	0.8
22313	307+10	RT	13	0.05	0.7
22310	307+40	LT	17	0.05	0.9
22340	308+20	LT	17	0.05	0.9
224TH AVE	313+80	RT	33	0.05	1.7
22390	313+90	LT	16	0.05	0.8
22430	315+10	LT	13	0.05	0.7
22470	317+90	LT	16	0.05	0.8
225TH LN	323+10	RT	42	0.05	2.1
22590	323+10	LT	38	0.05	1.9
22590	327+50	LT	22	0.05	1.1
227TH AVE	331+00	RT	39	0.05	2.0

Q TYPE SP 12.5 WEARING COURSE MIX (4 , B)						
ADDRESS	STA	LOC	DEPTH "	SQ YDS	TONS	
CSAH 24	334+50	LT	4	130	30	
22705	337+70	RT	2	17	2	
PARK ENT	339+50	LT	2	39	4	
22733	339+90	RT	2	41	5	
RUM RIVER BLVD	343+50	RT	4	94	22	
CHURCH	344+60	LT	2	57	7	
22815	344+70	RT	2	28	3	
22855 / 22871	346+75	RT	2	69	8	
(SQ YDS X INCHES X 115LB) / 2000				TOTAL TONS	80	

R TYPE SP 12.5 WEARING COURSE MIX (4 , E)						
STA - STA	LENGTH	WIDTH	DEPTH "	MICR SQ YDS	SQ YDS	TONS
5+00 - 125+22			2	56618	56618	6511.4
CEN 125+22 - 333+50	20828	25	2	57856	6653.4	
SHL 125+22 - 333+50			1.5	37755	37755	3256.4
WEAR 333+50 - 348+24			2	6565	6565	755.0
BASE 333+50 - 348+24			2	6734	6734	774.4
				SUB TOTAL TONS	17950.3	

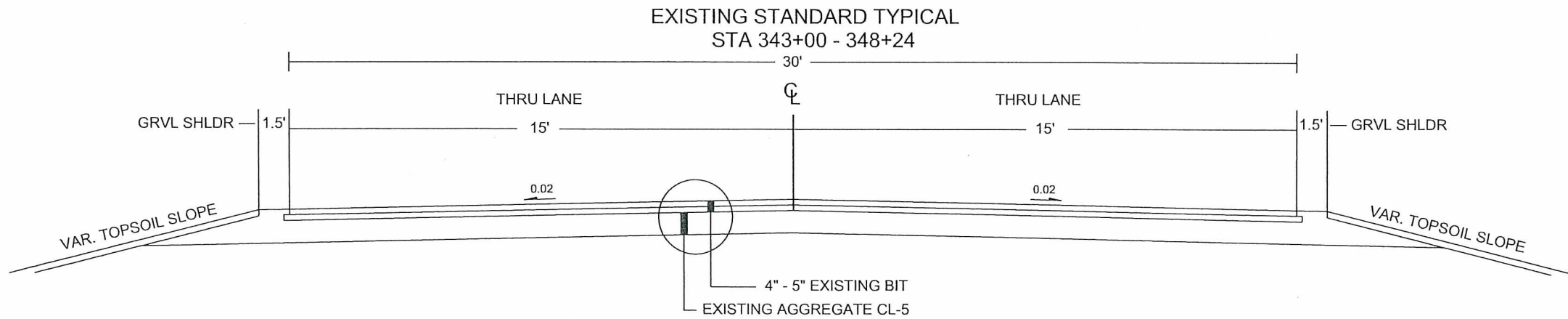
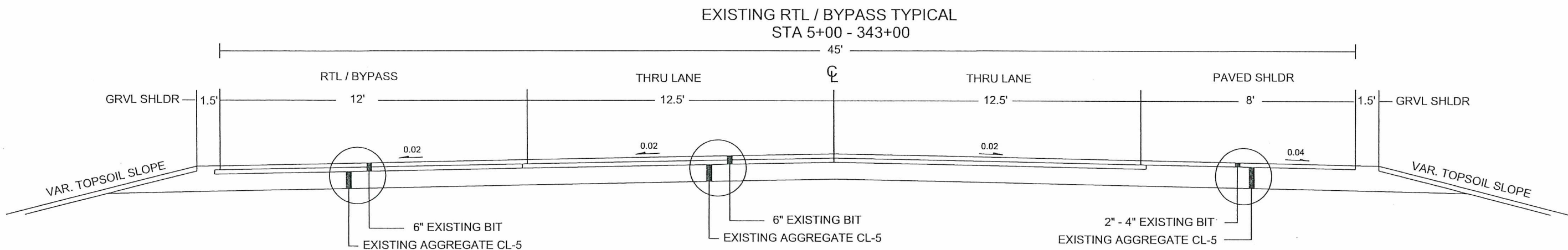
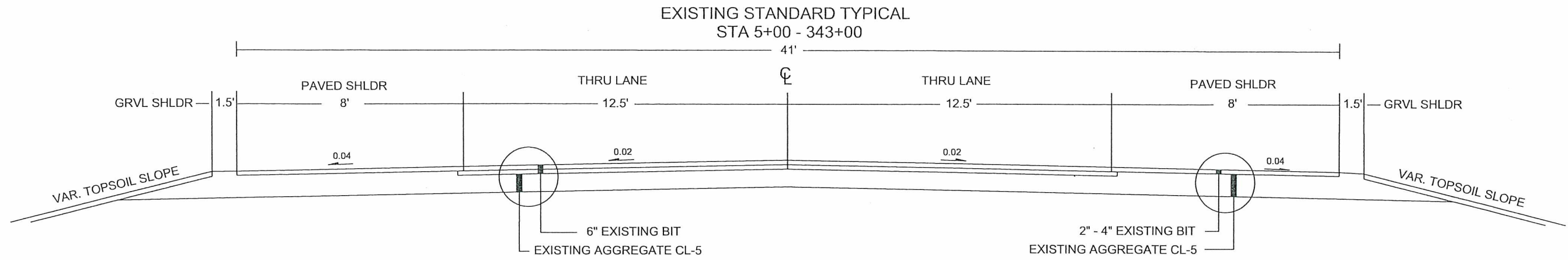
ADDRESS	STA	LOC	DEPTH "	SQ YDS	TONS	
17964	6+50	LT	2	15	1.7	
18055	10+00	RT	2	15	1.7	
18090	11+70	LT	2	18	2.1	
18021	20+60	LT	2	16	1.8	
18213	20+70	RT	2	14	1.6	
183RD AVE	28+10	LT	2	33	3.8	
18305	28+10	RT	2	23	2.6	
18320	29+00	LT	2	15	1.7	
18340	31+10	LT	2	15	1.7	
18350	32+20	LT	2	16	1.8	
18350	33+10	LT	2	16	1.8	
18400	33+90	LT	2	16	1.8	
18420	36+30	LT	2	16	1.8	
18425	38+50	RT	2	16	1.8	
18435	39+50	RT	2	17	2.0	
18475	42+50	RT	2	18	2.1	
185TH LN	42+60	LT	2	32	3.7	
185TH LN	45+40	RT	2	35	4.0	
18555	47+30	RT	2	14	1.6	
186TH LN	50+00	LT	2	31	3.6	
18712	56+00	LT	2	17	2.0	
18844	66+20	LT	2	16	1.8	
189TH AVE	71+00	RT	2	35	4.0	
18909	72+30	RT	2	14	1.6	
18936	74+20	LT	2	21	2.4	
190TH LN	80+90	RT	2	35	4.0	
19059	83+50	RT	2	15	1.7	
19111	85+50	RT	2	17	2.0	
19420	106+20	LT	2	15	1.7	
19625	119+00	RT	2	15	1.7	
19625	120+00	RT	2	17	2.0	
CSAH 22	125+00	INCLUDED IN MANLINE			0.0	
CSAH 22	125+00	INCLUDED IN MANLINE			0.0	
19761	129+10	RT	1.5	15	1.3	
19815	133+70	RT	1.5	15	1.3	
20001	147+25	RT	1.5	26	2.2	
200TH LN	147+50	LT	1.5	33	2.8	
20232	161+50	LT	1.5	15	1.3	
20232	162+80	LT	1.5	19	1.6	
20315	168+00	LT	1.5	13	1.1	
20339	170+80	RT	1.5	12	1.0	
204TH LN	176+80	RT	1.5	35	3.0	
204TH LN	176+80	LT	1.5	38	3.3	
20531 / 20575	184+10	RT	1.5	14	1.2	
208TH AVE	200+00	LT	1.5	40	3.5	
208TH AVE	200+00	RT	1.5	34	2.9	
210TH AVE	212+58	LT	1.5	35	3.0	
211TH LN	223+50	RT	1.5	40	3.5	
SUNSHINE DR	235+50	RT	1.5	34	2.9	
214TH AVE	240+90	LT	1.5	39	3.4	
21430	243+00	LT	1.5	14	1.2	
21470	245+00	LT	1.5	15	1.3	
21470	245+70	LT	1.5	16	1.4	
21517	249+50	RT	1.5	13	1.1	
21530	249+70	LT	1.5	15	1.3	
21567	253+20	RT	1.5	14	1.2	
21617	256+30	RT	1.5	11	0.9	
21658	258+80	LT	1.5	11	0.9	
217TH AVE	260+50	LT	1.5	36	3.1	
218TH AVE	267+50	LT	1.5	39	3.4	
21815	272+00	RT	1.5	14	1.2	
219TH AVE	279+00	LT	1.5	32	2.8	
219TH AVE	284+50	RT	1.5	34	2.9	
22008	286+00	LT	1.5	14	1.2	
22070	291+10	LT	1.5	15	1.3	
22055	292+50	RT	1.5	17	1.5	
22070	293+20	LT	1.5	13	1.1	
22208	299+30	LT	1.5	17	1.5	
22231	302+90	RT	1.5	15	1.3	
22313	307+10	RT	1.5	13	1.1	
22310	307+40	LT	1.5	17	1.5	
22340	308+20	LT	1.5	17	1.5	
224TH AVE	313+80	RT	1.5	33	2.8	
22390	313+90	LT	1.5	16	1.4	
22430	315+10	LT	1.5	13	1.1	
22470	317+90	LT	1.5	16	1.4	
225TH LN	323+10	RT	1.5	42	3.6	
22590	323+10	LT	1.5	38	3.3	
22590	327+50	LT	1.5	22	1.9	
227TH AVE	331+00	RT	1.5	39	3.4	
				SUB DR WAY/ST	163	
				SUB MANLINE	17950	
(SQ YDS X INCHES X 115LB) / 2000				TOTAL TONS	18113	

S ADJUST FRAME & RING CASTING				
STRUCTURE	STATION	LOCATION	ADJUSTED	QTY
MH - TELE	334+50	RT	BY OTHERS	0
MH - SAN	335+50	RT	CONTRACTOR	1
MH - SAN	340+50	RT	CONTRACTOR	1
TOTAL				2

T 6" CONCRETE DRIVEWAY PAVEMENT	
LOCATION	SQ YDS
# 19881	24
TOTAL SQ YDS	24

U BITUMINOUS CURB				
STATION	STATION	LOCATION		LIN FT
337+75	339+65	RT		190
TOTAL LIN FT				190

V MAIL BOX SUPPORT				
ADDRESS	STA	DR WAY		QTY
18055	10+00	RT		1
18090	11+70	LT		1
18021	20+60	LT		1
18213	20+70	RT		1
18305	28+10	RT		1
18320	29+00	LT		1
18340	31+10	LT		1
18350	33+10	LT		1
18400	33+90	LT		1
18420	36+30	LT		1
18425	38+50	RT		1
18435	39+50	RT		1
18				



*** NOTE - INPLACE CONCRETE CURB TO REMAIN INPLACE**

CONCRETE CURB	125+00 TO 127+60	LT	CONCRETE CURB	225+39 TO 228+00	RT
CONCRETE CURB	133+40 TO 136+38	LT	CONCRETE CURB	229+50 TO 232+65	LT
CONCRETE CURB	141+43 TO 143+16	LT	CONCRETE CURB	240+51 TO 242+90	RT
CONCRETE CURB	188+00 TO 195+14	RT	CONCRETE CURB	258+21 TO 261+20	RT
CONCRETE CURB	206+10 TO 209+13	LT	CONCRETE CURB	278+40 TO 284+20	RT
CONCRETE CURB	215+95 TO 218+36	LT	CONCRETE CURB	280+60 TO 283+50	LT

*** NOTE - INPLACE BITUMINOUS CURB**

BITUMINOUS CURB	27+30 TO 29+00	RT	TO REMAIN INPLACE
BITUMINOUS CURB	337+75 TO 339+65	RT	TO BE RECLAIMED AND REINSTALLED

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan\4_TYPICALS.dgn 05/31/2013 3:06:04 PM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *[Signature]*

DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY: JF DATE: 4/19/2013

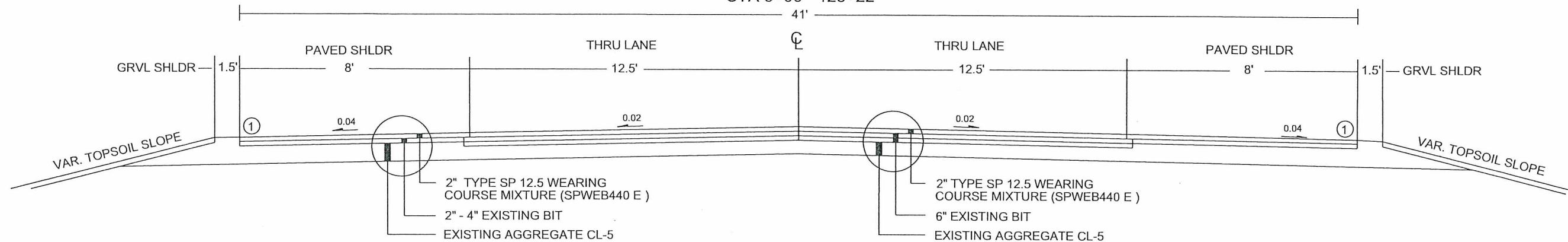
DESIGN BY: JF DATE: 4/19/2013

CHECKED BY: GA DATE: 4/22/2013

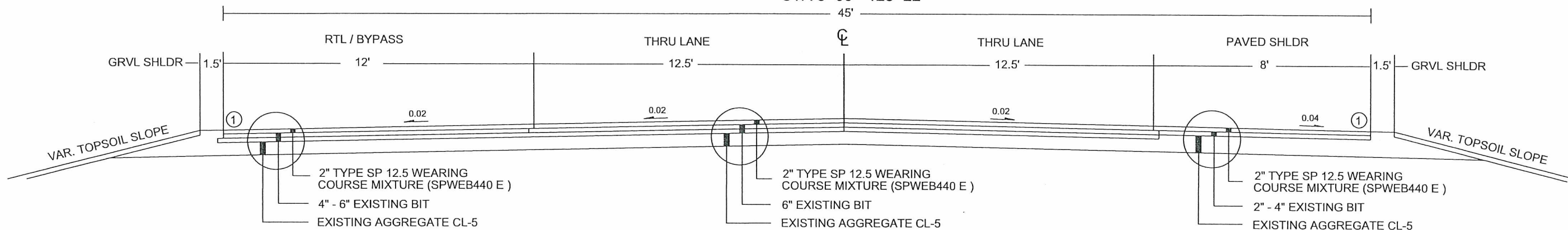
**ANOKA COUNTY
HIGHWAY DEPT.**

SP 002-607-022

PROPOSED STANDARD TYPICAL
STA 5+00 - 125+22



PROPOSED RTL / BYPASS TYPICAL
STA 5+00 - 125+22



* NOTE - INPLACE CONCRETE CURB TO REMAIN INPLACE

CONCRETE CURB	125+00 TO 127+60	LT	CONCRETE CURB	225+39 TO 228+00	RT
CONCRETE CURB	133+40 TO 136+38	LT	CONCRETE CURB	229+50 TO 232+65	LT
CONCRETE CURB	141+43 TO 143+16	LT	CONCRETE CURB	240+51 TO 242+90	RT
CONCRETE CURB	188+00 TO 195+14	RT	CONCRETE CURB	258+21 TO 261+20	RT
CONCRETE CURB	206+10 TO 209+13	LT	CONCRETE CURB	278+40 TO 284+20	RT
CONCRETE CURB	215+95 TO 218+36	LT	CONCRETE CURB	280+60 TO 283+50	LT

* NOTE - INPLACE BITUMINOUS CURB

BITUMINOUS CURB	27+30 TO 29+00	RT	TO REMAIN INPLACE
BITUMINOUS CURB	337+75 TO 339+65	RT	TO BE RECLAIMED AND REINSTALLED

① SEE SAFETY EDGE DETAIL SHEET 10

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan\4_TYPICALS.dgn 05/31/2013 3:06:14 PM

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

PRINT NAME: ANDREW WITTER
SIGNATURE: *[Signature]*
DATE: 4/17/13 LICENSE NO. 42757

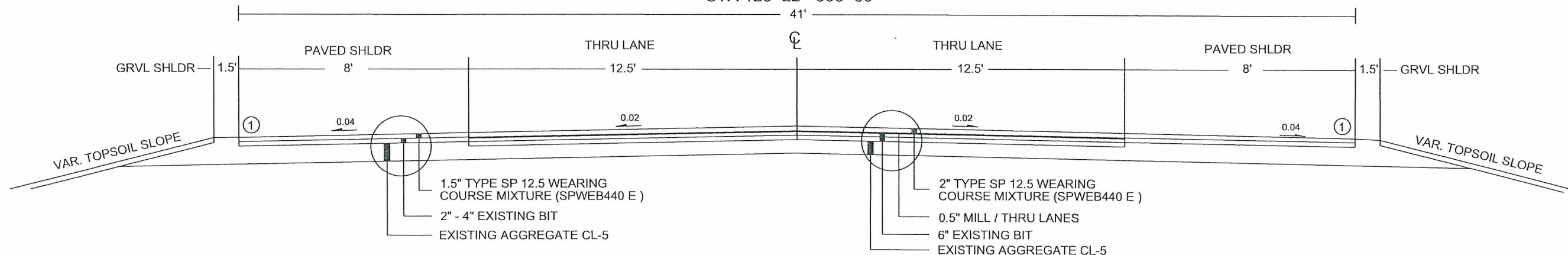
DRAWN BY: JF DATE: 4/19/2013
DESIGN BY: JF DATE: 4/19/2013
CHECKED BY: GA DATE: 4/22/2013

ANOKA COUNTY
HIGHWAY DEPT.

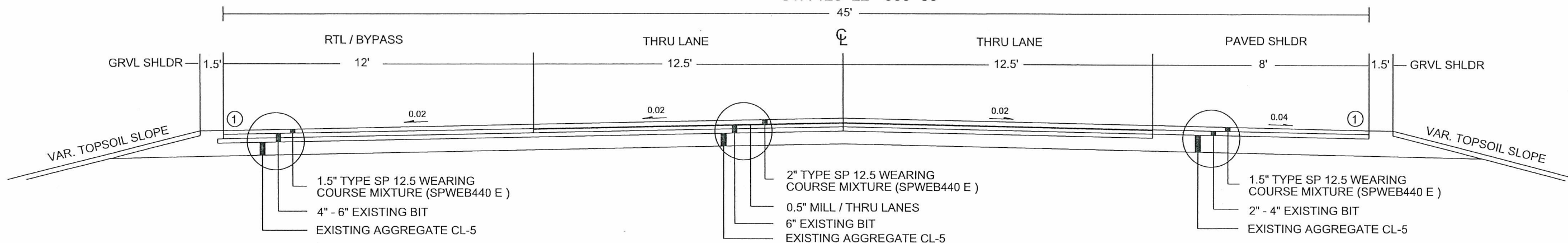
SP 002-607-022

PROPOSED TYPICAL SECTIONS
Sheet 6 of 57 Sheets

PROPOSED STANDARD TYPICAL
STA 125+22 - 333+50



PROPOSED RTL / BYPASS TYPICAL
STA 125+22 - 333+50



* NOTE - INPLACE CONCRETE CURB TO REMAIN INPLACE

CONCRETE CURB	125+00 TO 127+60	LT	CONCRETE CURB	225+39 TO 228+00	RT
CONCRETE CURB	133+40 TO 136+38	LT	CONCRETE CURB	229+50 TO 232+65	LT
CONCRETE CURB	141+43 TO 143+16	LT	CONCRETE CURB	240+51 TO 242+90	RT
CONCRETE CURB	188+00 TO 195+14	RT	CONCRETE CURB	258+21 TO 261+20	RT
CONCRETE CURB	206+10 TO 209+13	LT	CONCRETE CURB	278+40 TO 284+20	RT
CONCRETE CURB	215+95 TO 218+36	LT	CONCRETE CURB	280+60 TO 283+50	LT

* NOTE - INPLACE BITUMINOUS CURB

BITUMINOUS CURB	27+30 TO 29+00	RT	TO REMAIN INPLACE
BITUMINOUS CURB	337+75 TO 339+65	RT	TO BE RECLAIMED AND REINSTALLED

① SEE SAFETY EDGE DETAIL SHEET 10

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan4_TYPICALS.dgn 05/31/2013 3:06:23 PM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*

DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013

DESIGN BY JF DATE 4/19/2013

CHECKED BY GA DATE 4/22/2013

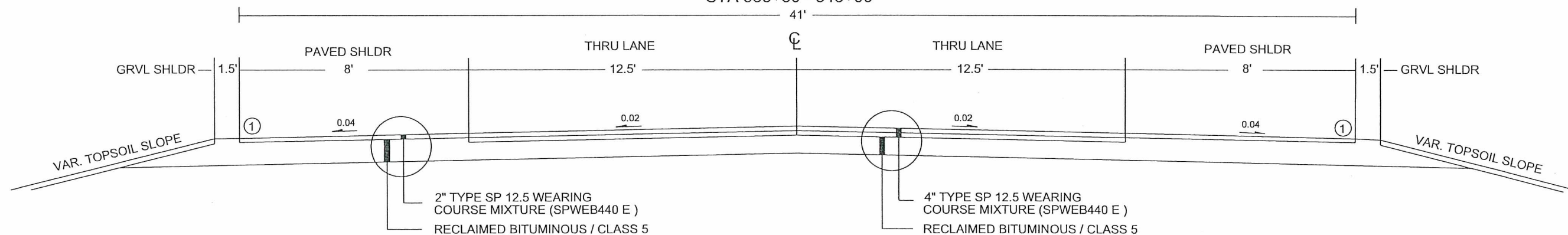


ANOKA COUNTY
HIGHWAY DEPT.

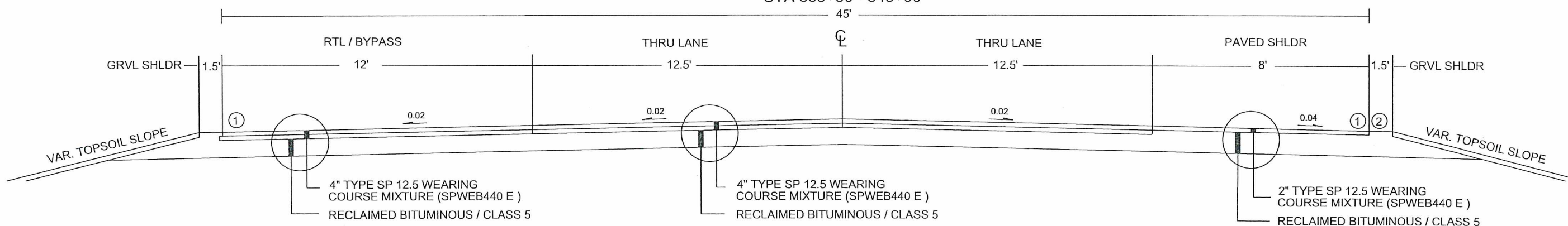
SP 002-607-022

PROPOSED
TYPICAL SECTIONS

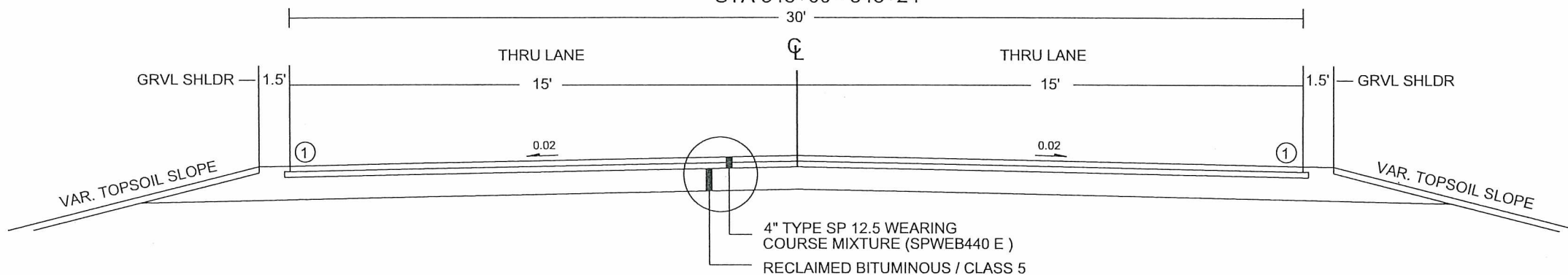
PROPOSED STANDARD TYPICAL
STA 333+50 - 343+00



PROPOSED RTL / BYPASS TYPICAL
STA 333+50 - 343+00



PROPOSED STANDARD TYPICAL
STA 343+00 - 348+24



* NOTE - INPLACE CONCRETE CURB TO REMAIN INPLACE

CONCRETE CURB	125+00 TO 127+60	LT	CONCRETE CURB	225+39 TO 228+00	RT
CONCRETE CURB	133+40 TO 136+38	LT	CONCRETE CURB	229+50 TO 232+65	LT
CONCRETE CURB	141+43 TO 143+16	LT	CONCRETE CURB	240+51 TO 242+90	RT
CONCRETE CURB	188+00 TO 195+14	RT	CONCRETE CURB	258+21 TO 261+20	RT
CONCRETE CURB	206+10 TO 209+13	LT	CONCRETE CURB	278+40 TO 284+20	RT
CONCRETE CURB	215+95 TO 218+36	LT	CONCRETE CURB	280+60 TO 283+50	LT

* NOTE - INPLACE BITUMINOUS CURB

BITUMINOUS CURB	27+30 TO 29+00	RT	TO REMAIN INPLACE
BITUMINOUS CURB	337+75 TO 339+65	RT	TO BE RECLAIMED AND REINSTALLED

① SEE SAFETY EDGE DETAIL SHEET 10

② SEE BITUMINOUS CURB DETAIL SHEET 10

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan4_TYPICALS.dgn 05/31/2013 3:06:32 PM

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: ANDREW WITTER
SIGNATURE: *Andrew Witter*
DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY: JF DATE: 4/19/2013
DESIGN BY: JF DATE: 4/19/2013
CHECKED BY: GA DATE: 4/22/2013

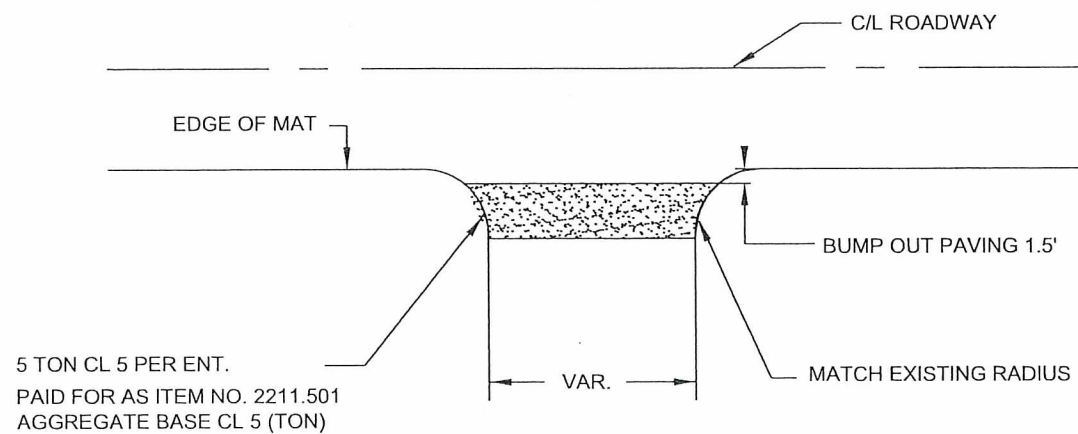


ANOKA COUNTY
HIGHWAY DEPT.

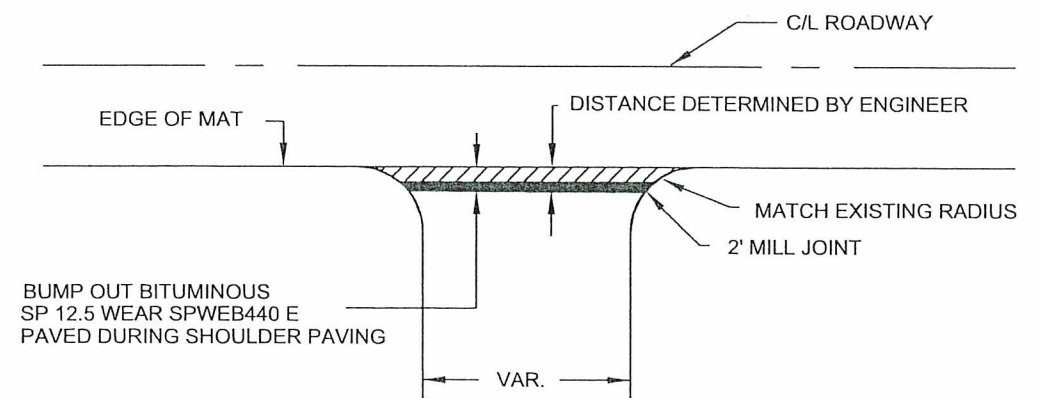
SP 002-607-022

PROPOSED
TYPICAL SECTIONS

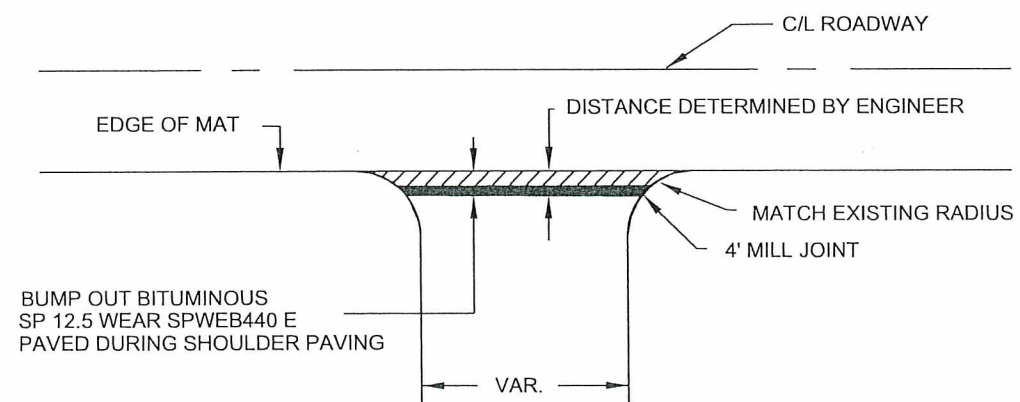
GRAVEL DR. WAYS AND FEILD ENT. STA. 5+00 - 348+24



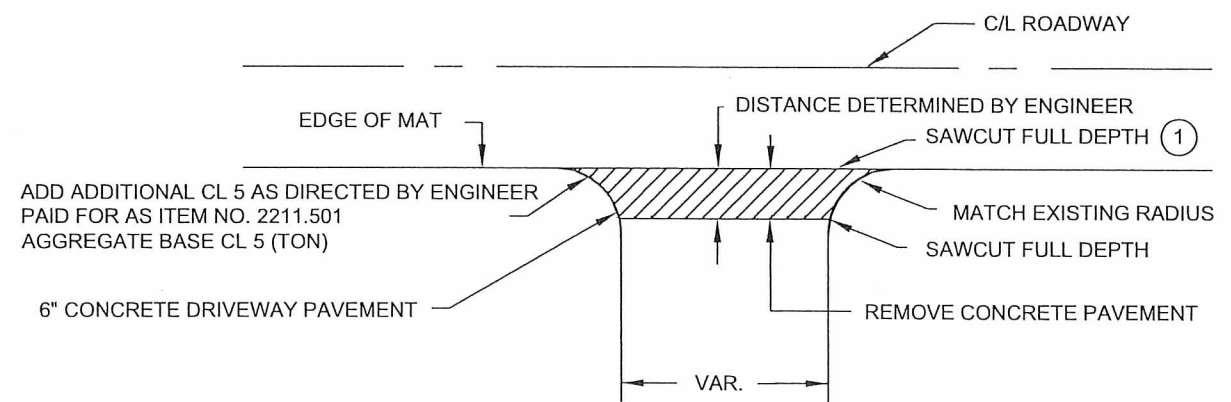
PAVED DR. WAYS
OVERLAY AREA STA. 5+00 - 333+50



PAVED STREET APPROACHES
OVERLAY AREA STA. 5+00 - 333+50



CONCRETE DR. WAYS STA. 5+00 - 348+24



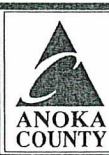
① SAWCUT BITUMINOUS ROAD EDGE PRIOR TO CONCRETE DRIVEWAY PAVING

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan\5_DETAILS.dgn 05/31/2013 3:07:10 PM

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *[Signature]*
 DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013
 DESIGN BY JF DATE 4/19/2013
 CHECKED BY GA DATE 4/22/2013



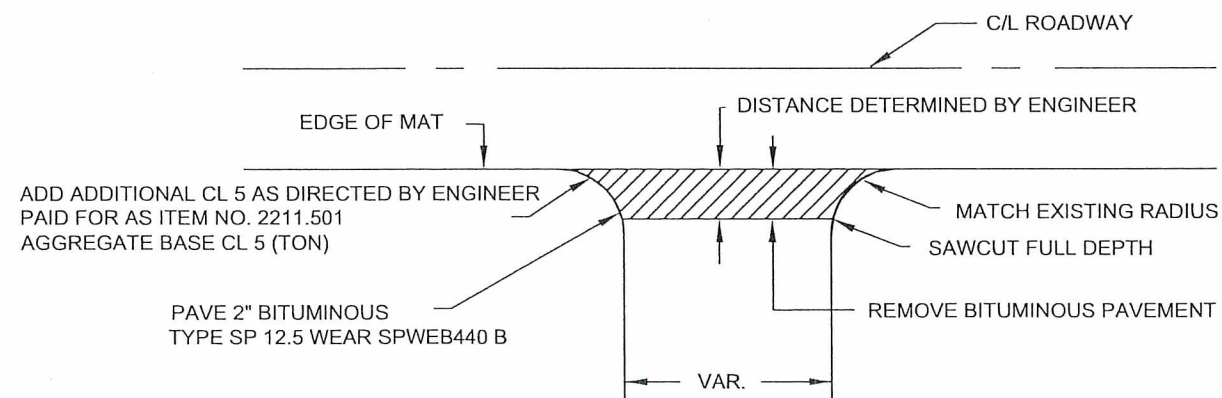
ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

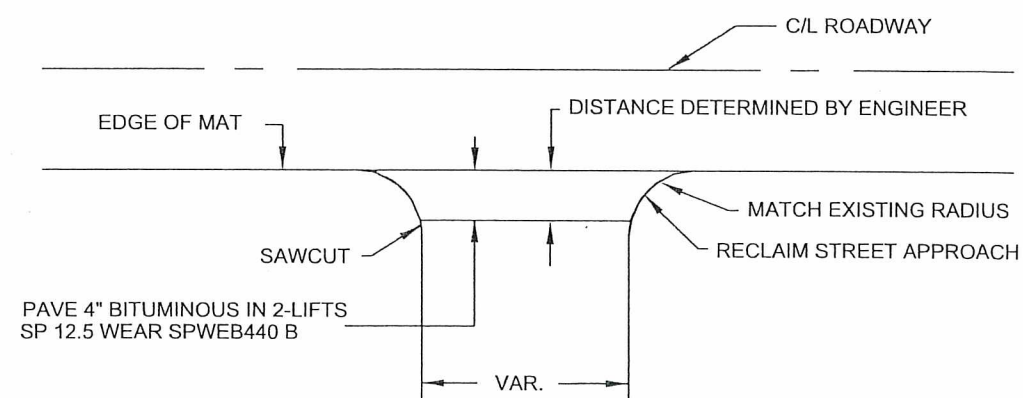
CONSTRUCTION DETAILS

Sheet 9 of 57 Sheets

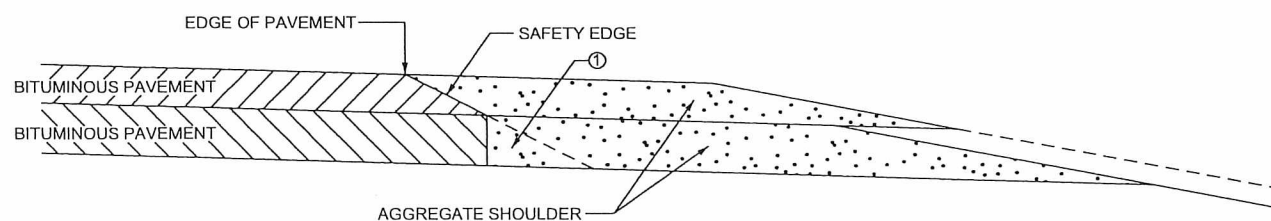
PAVED DR. WAYS
RECLAIM AREA STA. 333+50 - 348+24



PAVED STREET APPROACHES
RECLAIM AREA STA. 333+50 - 348+24



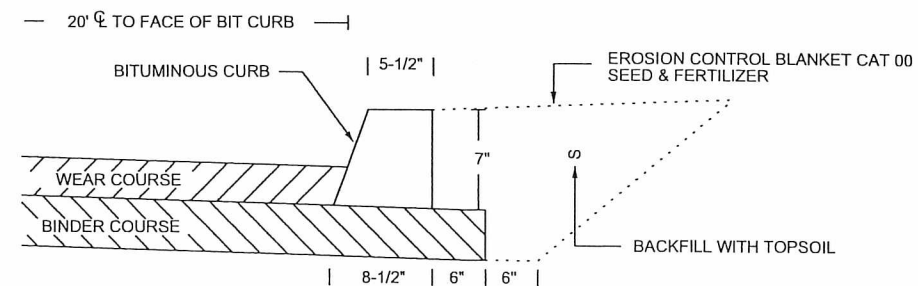
SAFETY EDGE



BITUMINOUS PAVEMENT
SAFETY EDGE TO BE USED IN ALL NON-CURB AREAS ON SHOULDER.

① OPTIONAL DESIGN EXTENDS SAFETY EDGE DEEPER THAN 6" AND WIDER THAN 10.5". SEE SPECIAL PROVISIONS.

BITUMINOUS CURB DETAIL
STA 337+75 - 339+65



NO	DATE	BY	CKD	APPR	REVISION
NAME: P:\02-607-22\Plan\5_DETAILS.dgn					
05/31/2013 3:07:19 PM					

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *[Signature]*
 DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013
 DESIGN BY JF DATE 4/19/2013
 CHECKED BY GA DATE 4/22/2013

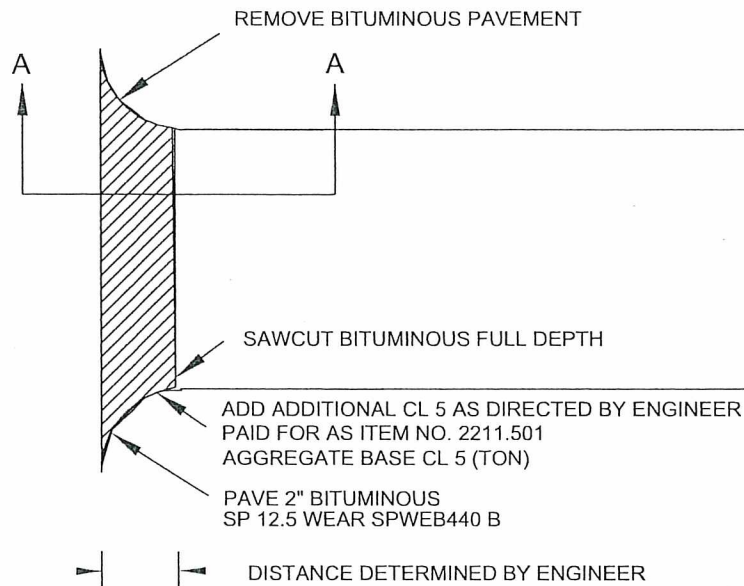


ANOKA COUNTY
HIGHWAY DEPT.

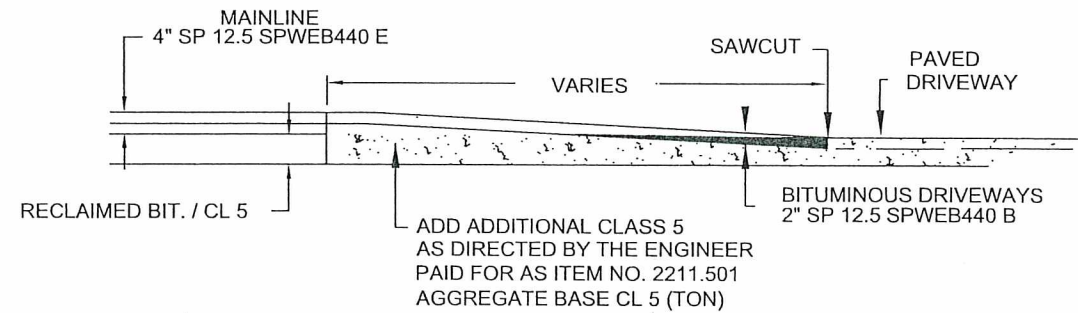
SP 002-607-022

CONSTRUCTION DETAILS
 Sheet 10 of 57 Sheets

PAVED DRIVEWAYS
RECLAIM AREA ST. 333+50 - 348+24

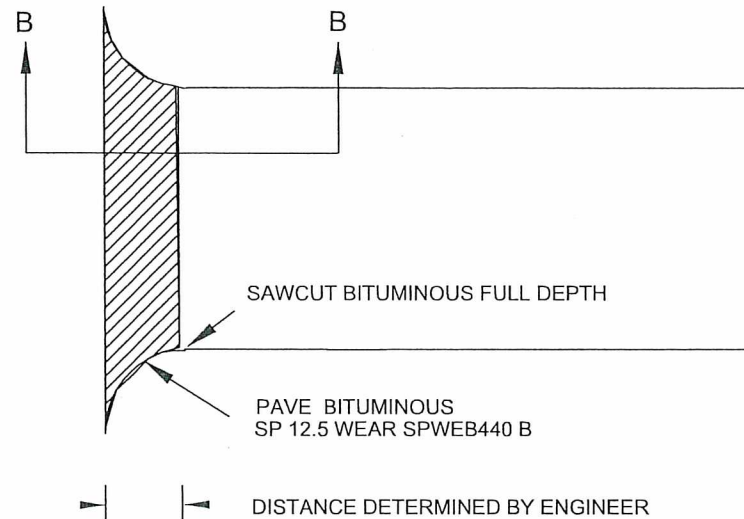


PAVED DRIVEWAY DETAILS A - A
RECLAIM AREA ST. 333+50 - 348+24

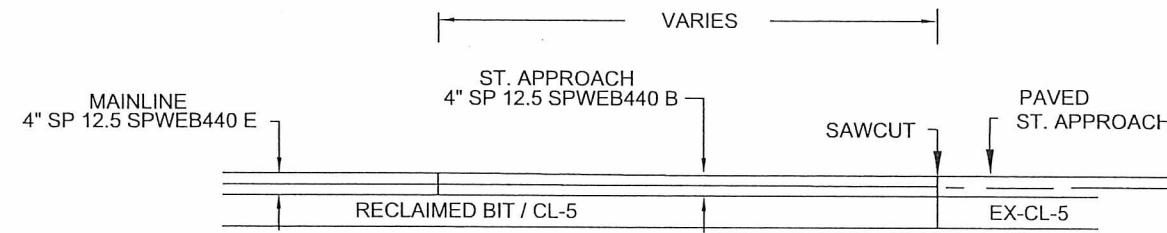


PAVED STREET APPROACH
RECLAIM AREA ST. 333+50 - 348+24

JOINT DETAILS



PAVED STREET APPROACH JOINT DETAILS B - B
RECLAIM AREA ST. 333+50 - 348+24



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan5_DETAILS.dgn 05/31/2013 3:07:27 PM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*

DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY: JF DATE: 4/19/2013

DESIGN BY: JF DATE: 4/19/2013

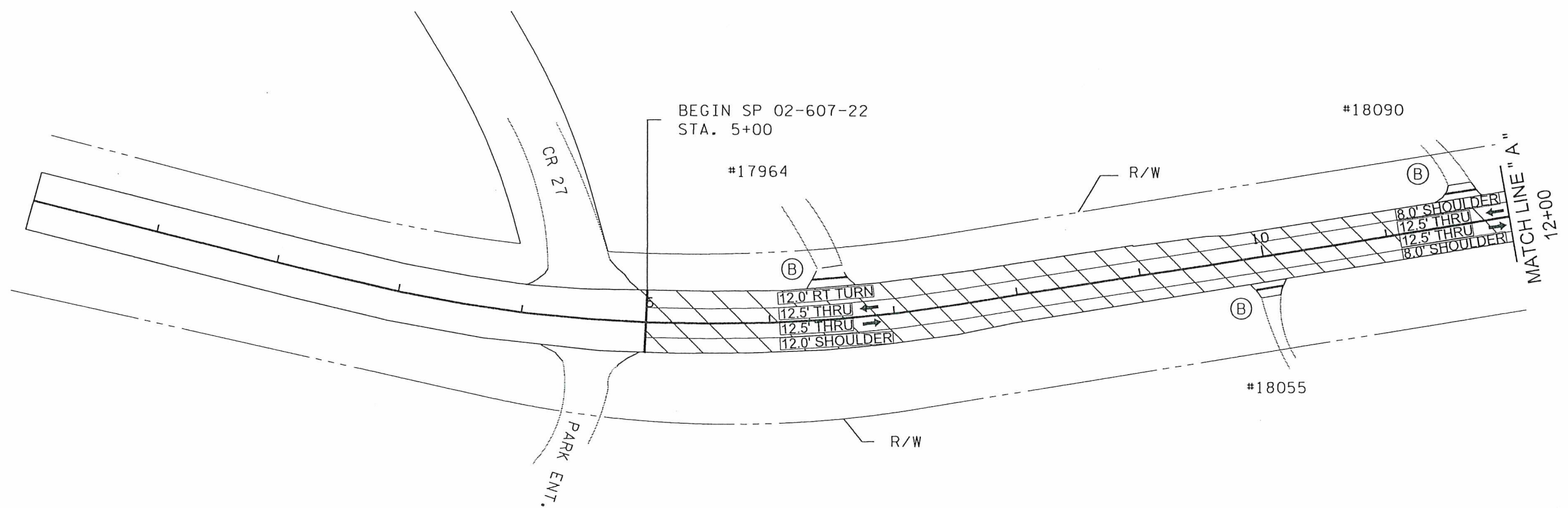
CHECKED BY: GA DATE: 4/22/2013

ANOKA COUNTY
HIGHWAY DEPT.

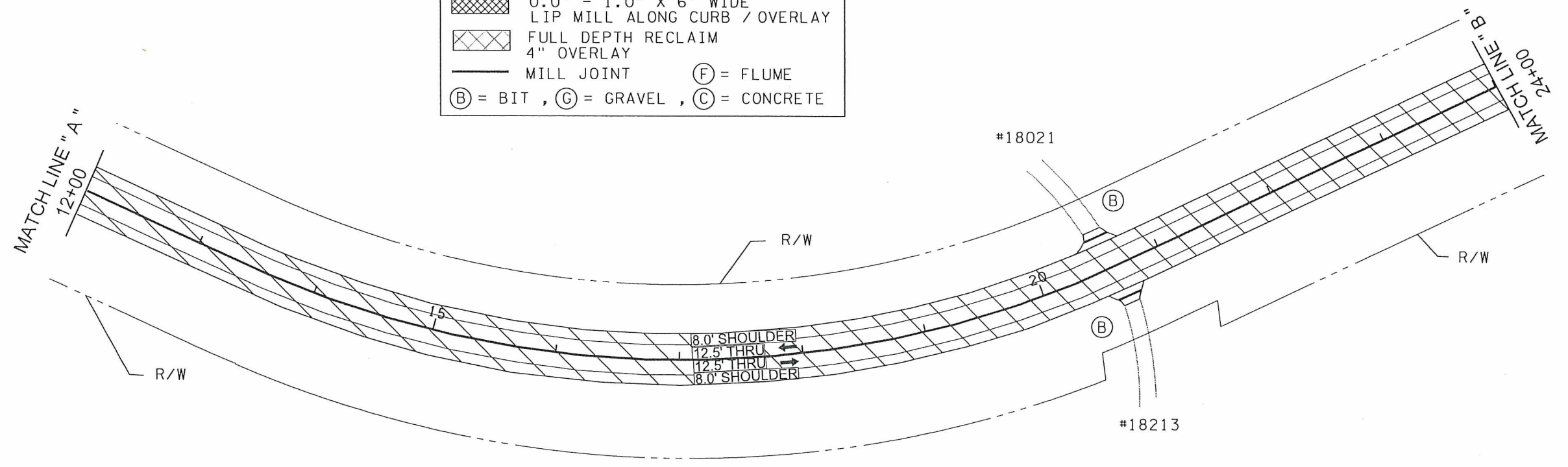
SP 002-607-022

CONSTRUCTION DETAILS

Sheet 11 of 57 Sheets



	2.0" OVERLAY
	0.5" MILL / 2" OVERLAY
	1.5" OVERLAY
	0.0" - 1.0" X 6' WIDE LIP MILL ALONG CURB / OVERLAY
	FULL DEPTH RECLAIM 4" OVERLAY
	MILL JOINT
	(F) = FLUME
	(B) = BIT
	(G) = GRAVEL
	(C) = CONCRETE



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan6_PLAN_1.dgn 06/03/2013 7:04:10 AM

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

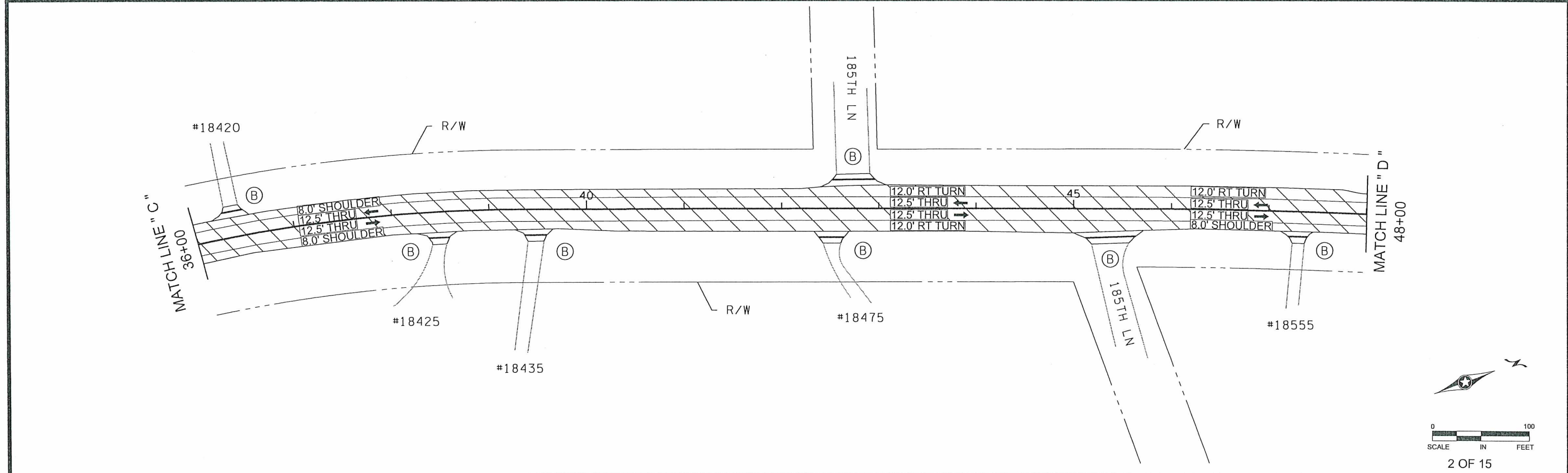
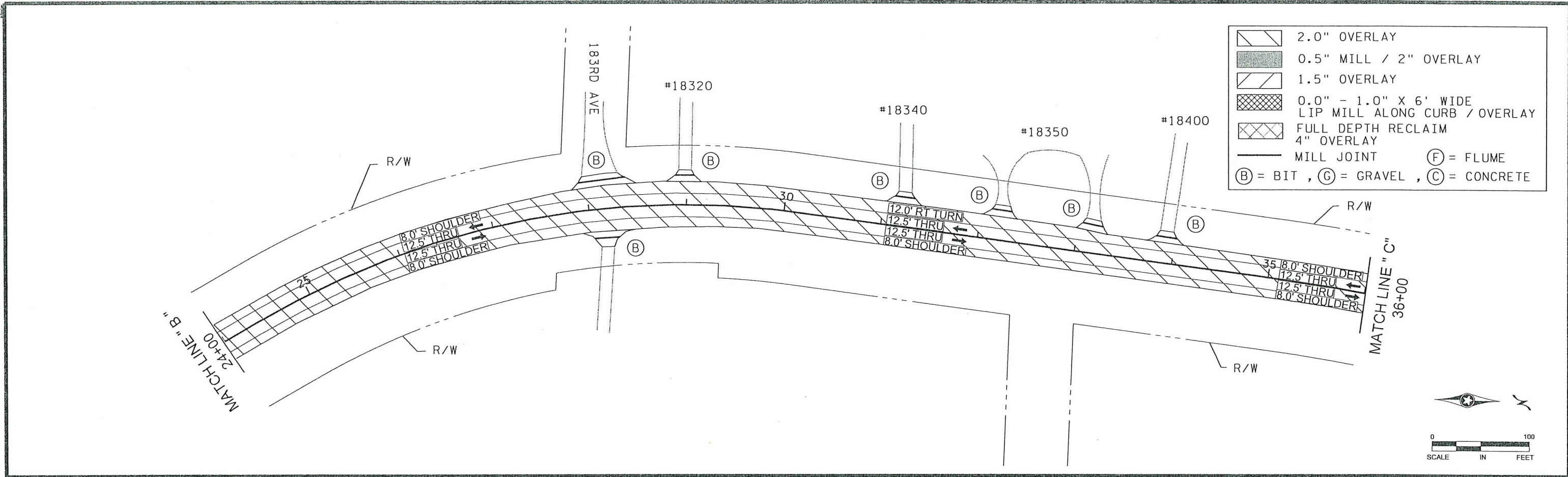
PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY: JF DATE: 4/19/2013
 DESIGN BY: JF DATE: 4/19/2013
 CHECKED BY: GA DATE: 4/22/2013

ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

PLAN
 STA 5+00 TO 24+00
 Sheet 12 of 57 Sheets



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan17_PLAN_2.dgn 05/03/2013 7:05:34 AM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*

DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY: JF DATE: 4/19/2013

DESIGN BY: JF DATE: 4/19/2013

CHECKED BY: GA DATE: 4/22/2013

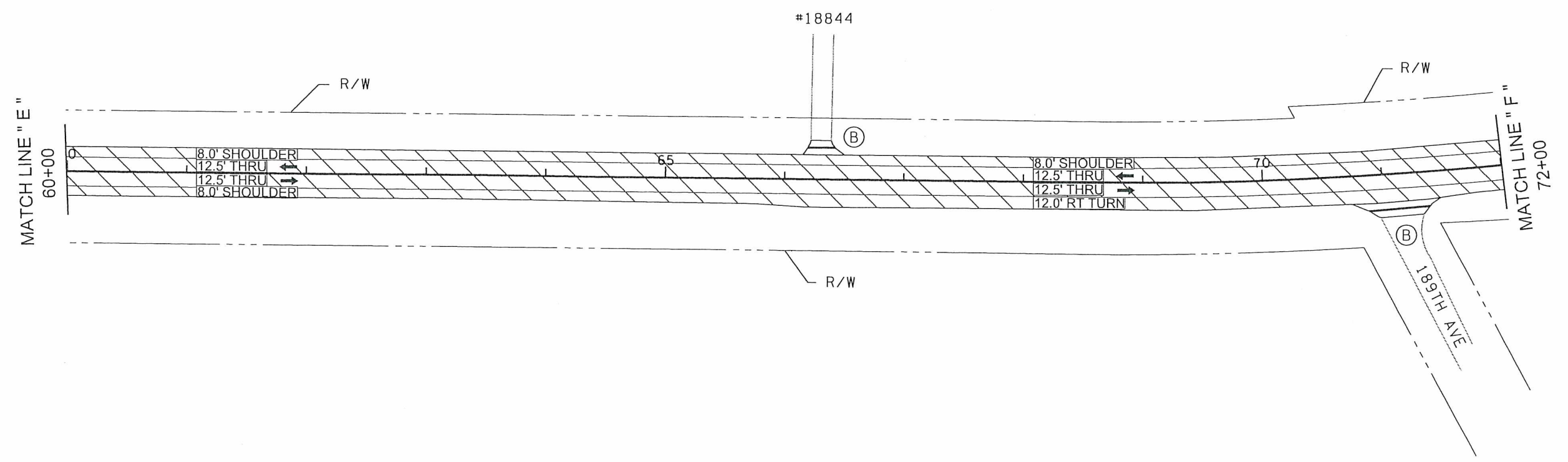
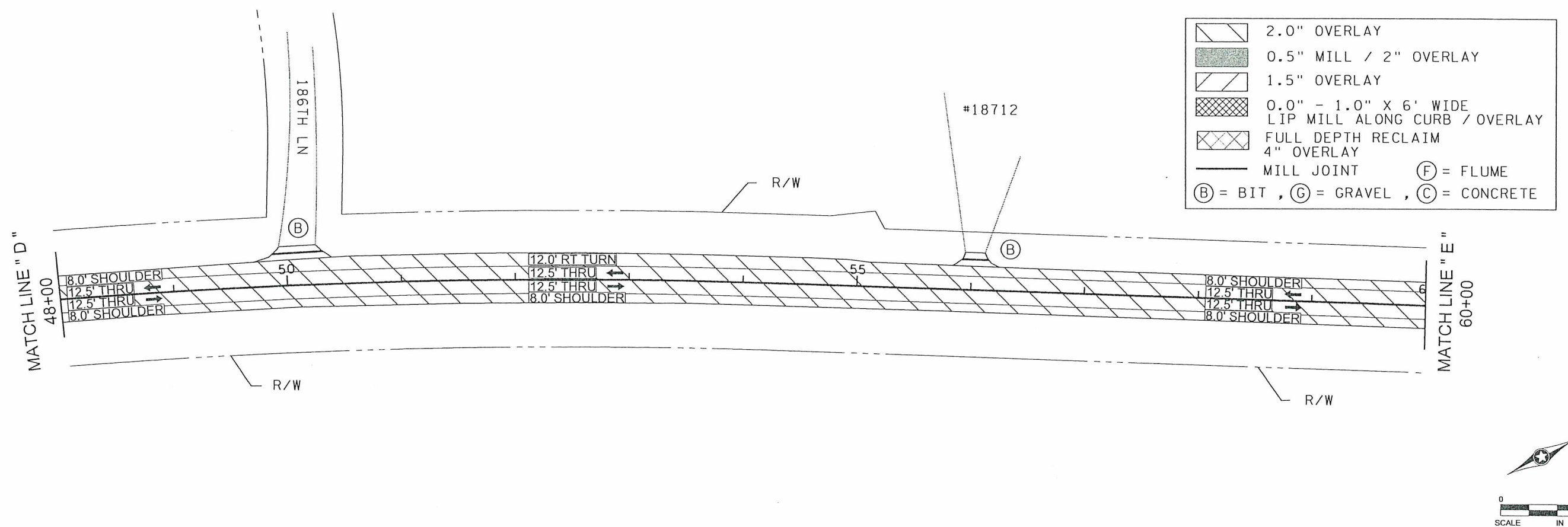
ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

PLAN

STA 24+00 TO 48+00

Sheet 13 of 57 Sheets



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan\B_PLAN_3.dgn 06/03/2013 7:06:46 AM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *[Signature]*

DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013

DESIGN BY JF DATE 4/19/2013

CHECKED BY GA DATE 4/22/2013

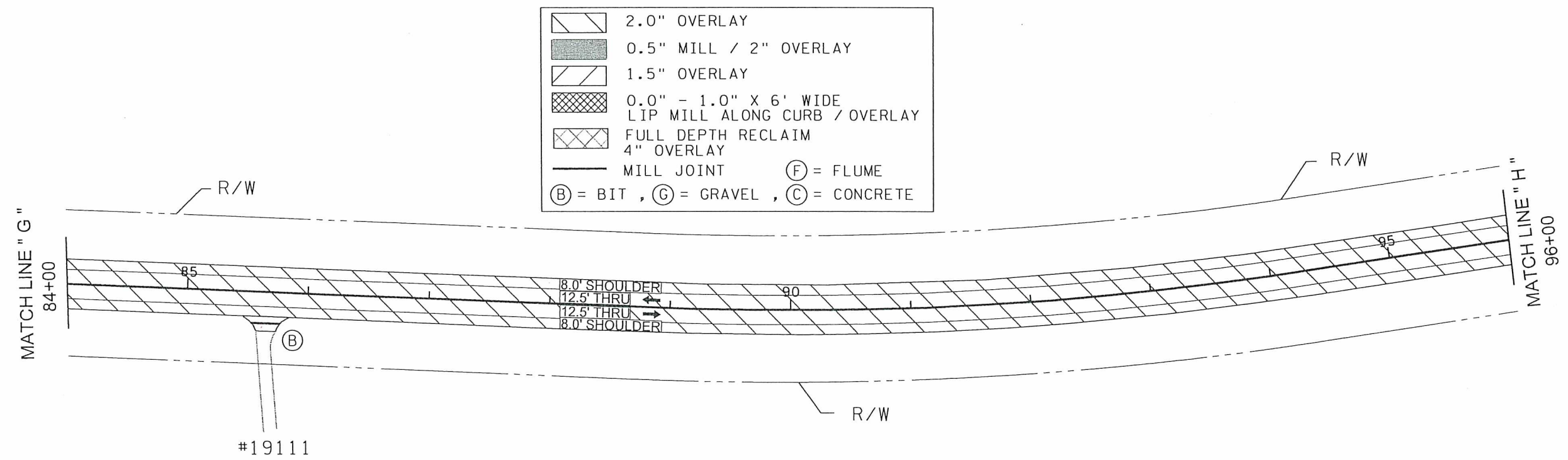
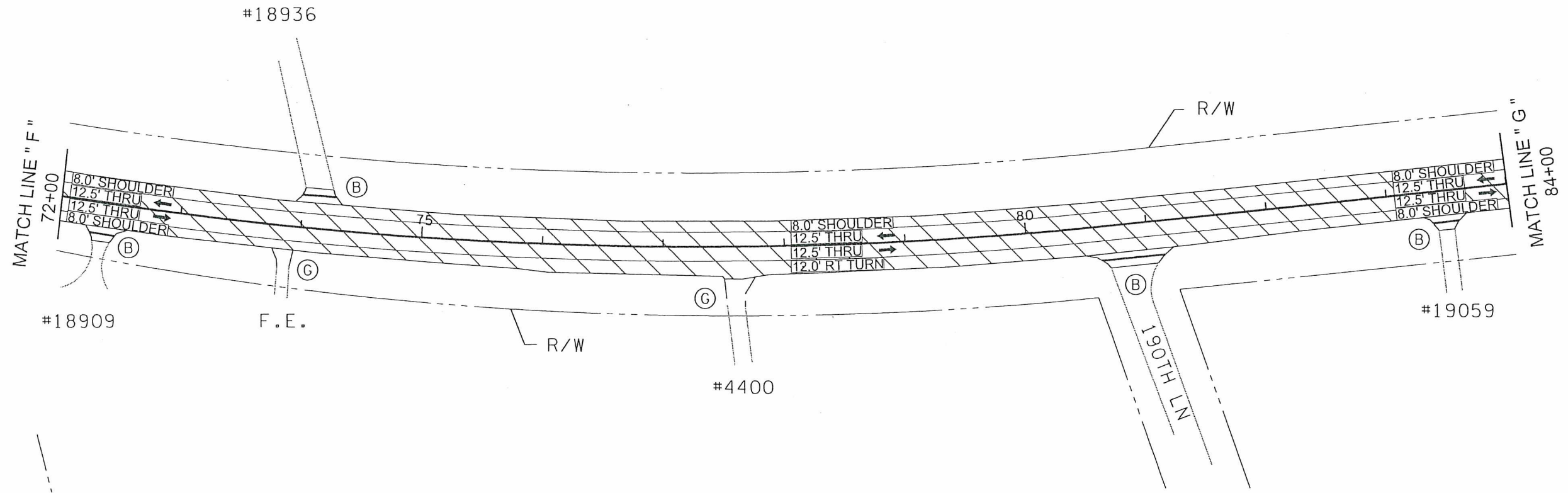
ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

PLAN

STA 48+00 TO 72+00

Sheet 14 of 57 Sheets



	2.0" OVERLAY
	0.5" MILL / 2" OVERLAY
	1.5" OVERLAY
	0.0" - 1.0" X 6' WIDE LIP MILL ALONG CURB / OVERLAY
	FULL DEPTH RECLAIM 4" OVERLAY
	MILL JOINT
(B)	= BIT
(G)	= GRAVEL
(C)	= CONCRETE
(F)	= FLUME

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan9_PLAN_4.dgn 06/03/2013 7:07:33 AM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*

DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013

DESIGN BY JF DATE 4/19/2013

CHECKED BY GA DATE 4/22/2013



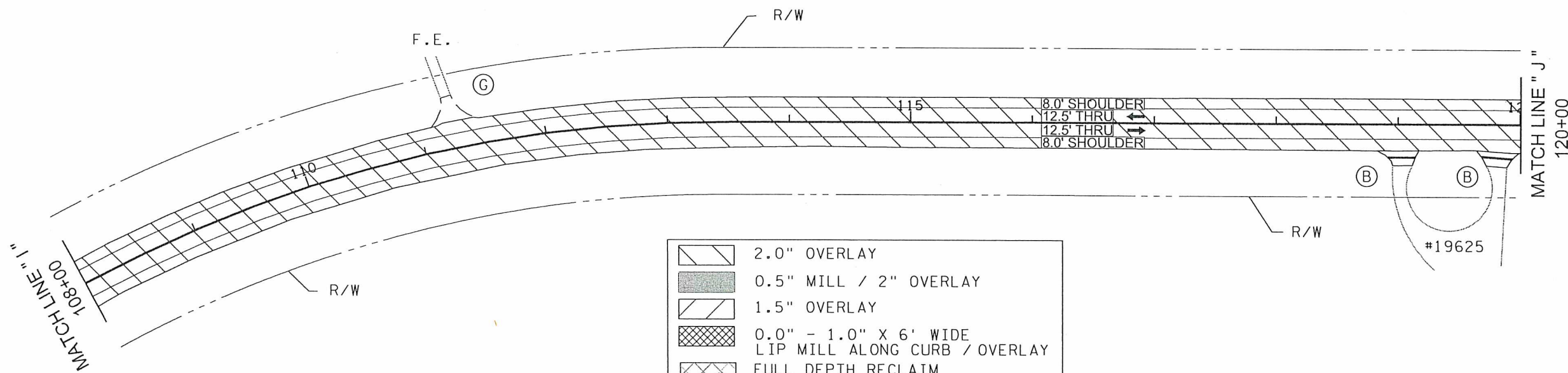
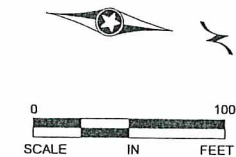
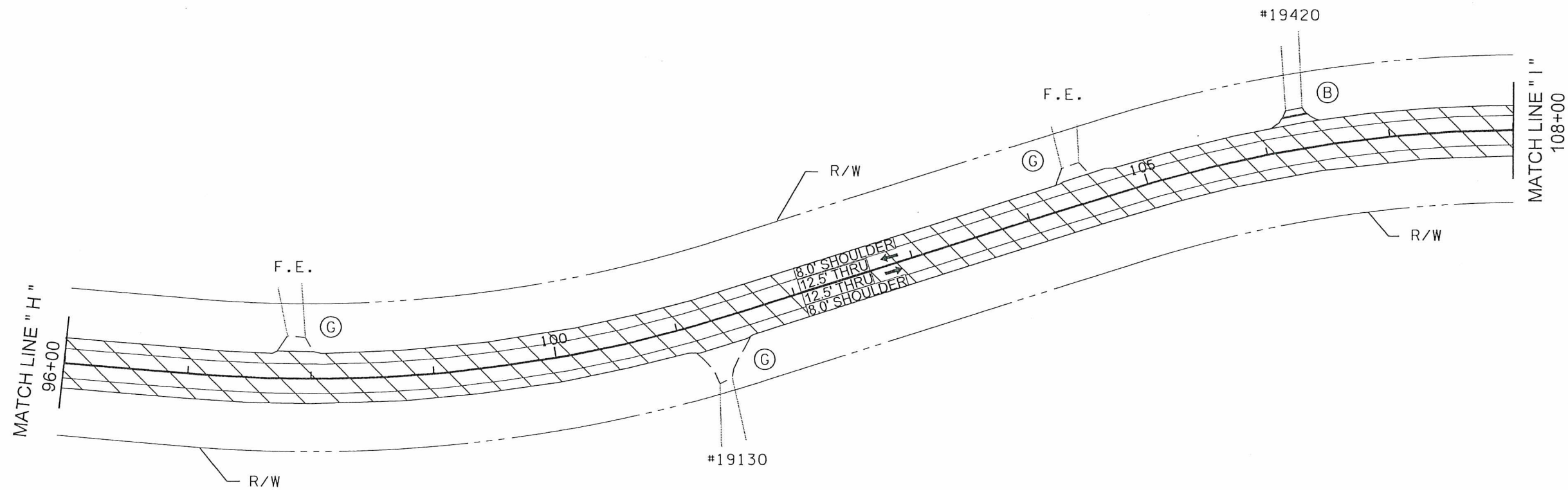
ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

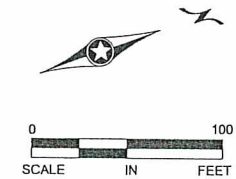
PLAN

STA 72+00 TO 96+00

Sheet 15 of 57 Sheets



- | | |
|--|--|
| | 2.0" OVERLAY |
| | 0.5" MILL / 2" OVERLAY |
| | 1.5" OVERLAY |
| | 0.0" - 1.0" X 6' WIDE
LIP MILL ALONG CURB / OVERLAY |
| | FULL DEPTH RECLAIM
4" OVERLAY |
| | MILL JOINT |
| | (F) = FLUME |
| | (G) = GRAVEL |
| | (B) = BIT ; (C) = CONCRETE |



5 OF 15

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan\10_PLAN_5.dgn 06/03/2013 7:08:25 AM

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

PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/17/13 LICENSE NO. 42757

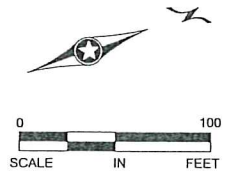
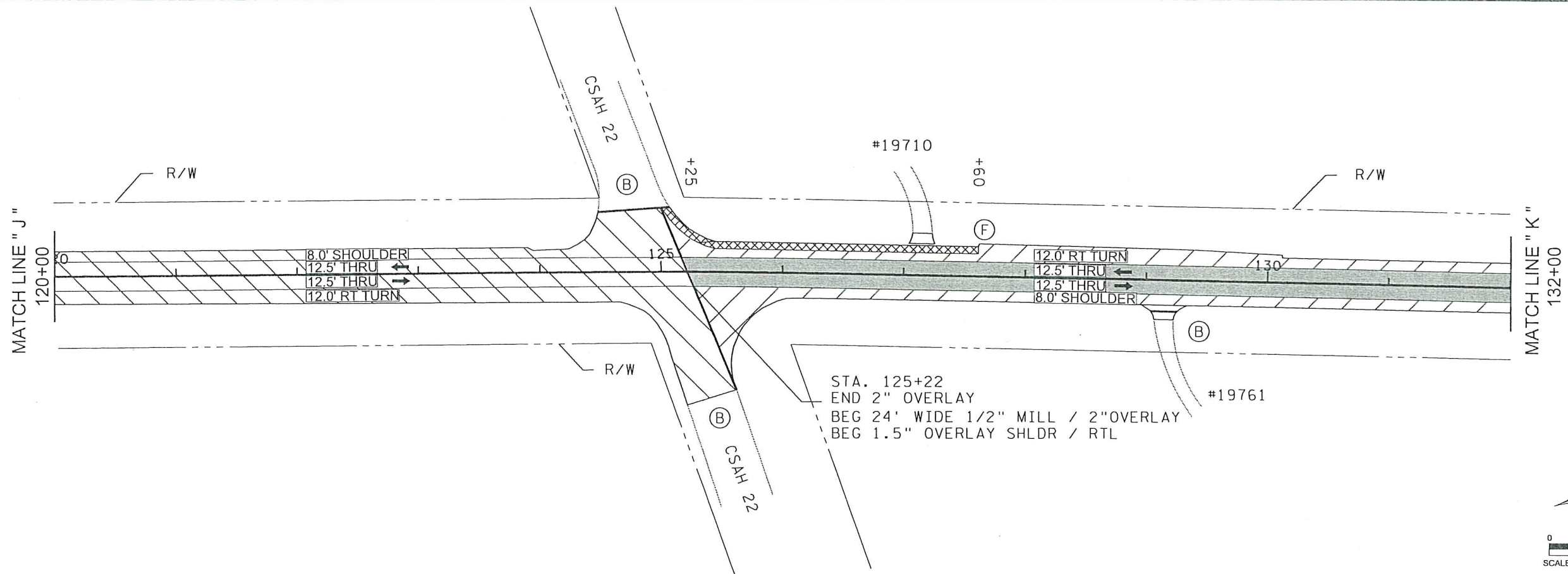
DRAWN BY: JF DATE: 4/19/2013
 DESIGN BY: JF DATE: 4/19/2013
 CHECKED BY: GA DATE: 4/22/2013



ANOKA COUNTY
HIGHWAY DEPT.

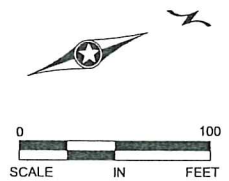
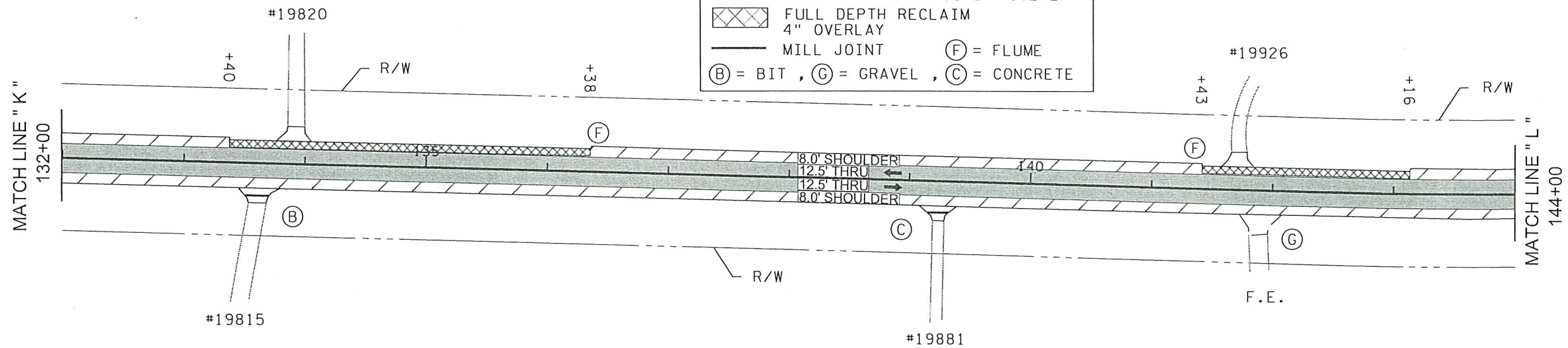
SP 002-607-022

PLAN
 STA 96+00 TO 120+00
 Sheet 16 of 57 Sheets



STA. 125+22
 END 2" OVERLAY
 BEG 24' WIDE 1/2" MILL / 2" OVERLAY
 BEG 1.5" OVERLAY SHLDR / RTL

	2.0" OVERLAY
	0.5" MILL / 2" OVERLAY
	1.5" OVERLAY
	0.0" - 1.0" X 6' WIDE LIP MILL ALONG CURB / OVERLAY
	FULL DEPTH RECLAIM 4" OVERLAY
	MILL JOINT
	(F) = FLUME
	(B) = BIT
	(G) = GRAVEL
	(C) = CONCRETE



6 OF 15

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan\11_PLAN_6.dgn 06/03/2013 7:09:26 AM

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

PRINT NAME: ANDREW WITTER

SIGNATURE:

DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013

DESIGN BY JF DATE 4/19/2013

CHECKED BY GA DATE 4/22/2013

ANOKA COUNTY
HIGHWAY DEPT.

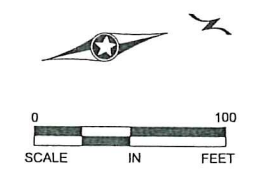
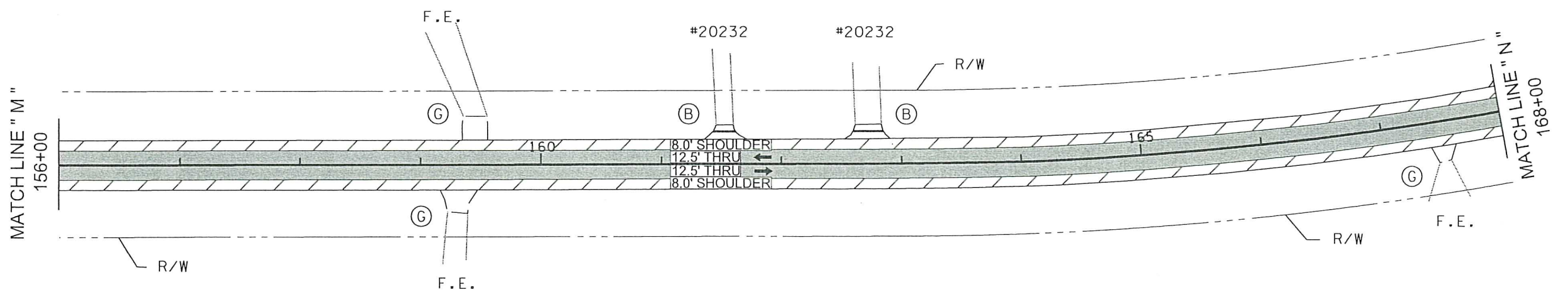
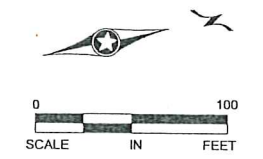
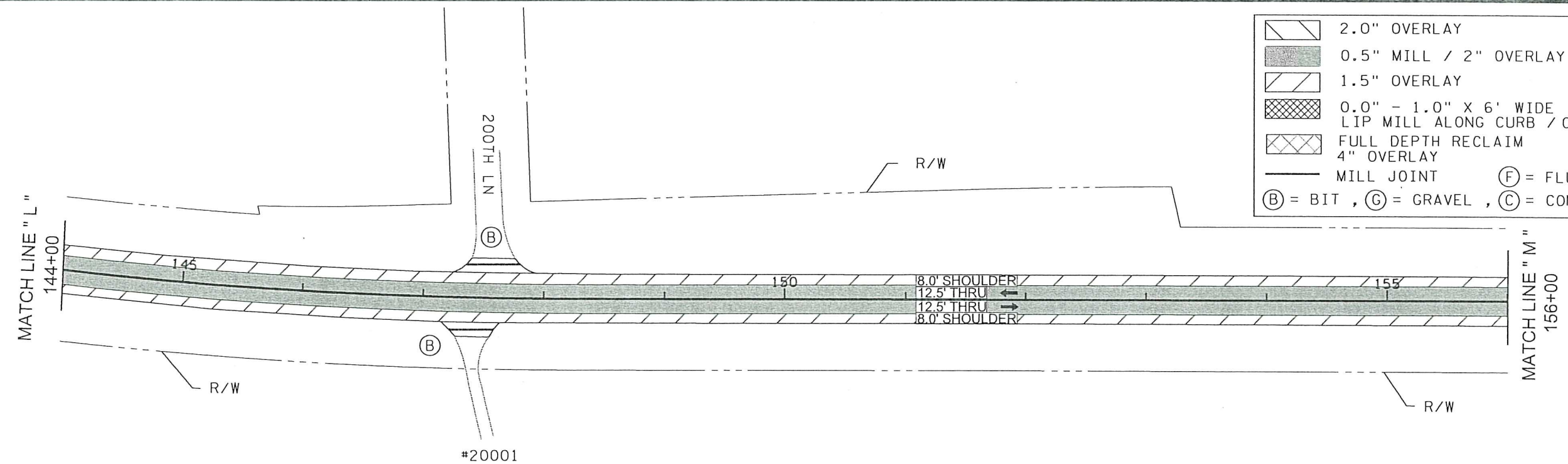
SP 002-607-022

PLAN

STA 120+00 TO 144+00

Sheet 17 of 57 Sheets

	2.0" OVERLAY
	0.5" MILL / 2" OVERLAY
	1.5" OVERLAY
	0.0" - 1.0" X 6' WIDE LIP MILL ALONG CURB / OVERLAY
	FULL DEPTH RECLAIM 4" OVERLAY
	MILL JOINT
	(F) = FLUME
	(B) = BIT
	(G) = GRAVEL
	(C) = CONCRETE



7 OF 15

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan\12_PLAN_7.dgn 06/03/2013 7:10:14 AM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*

DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY: JF DATE: 4/19/2013

DESIGN BY: JF DATE: 4/19/2013

CHECKED BY: GA DATE: 4/22/2013

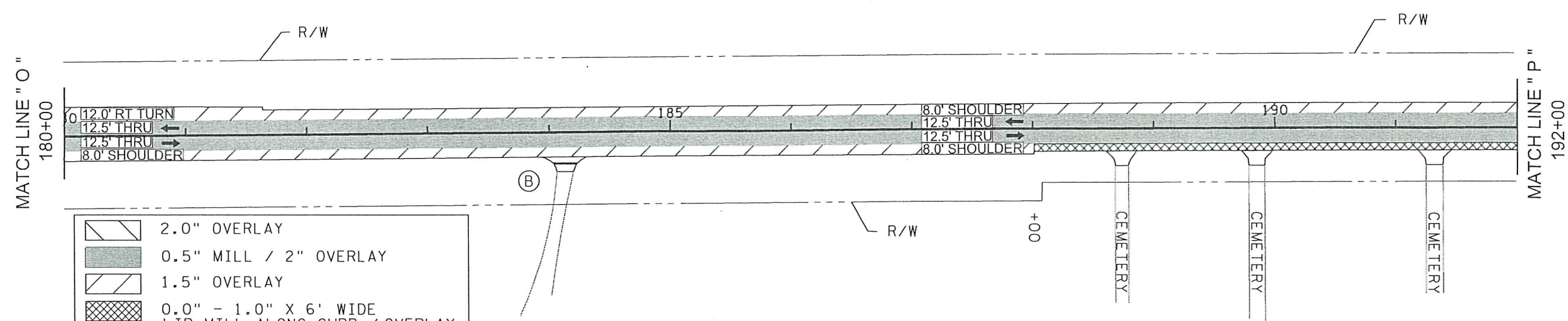
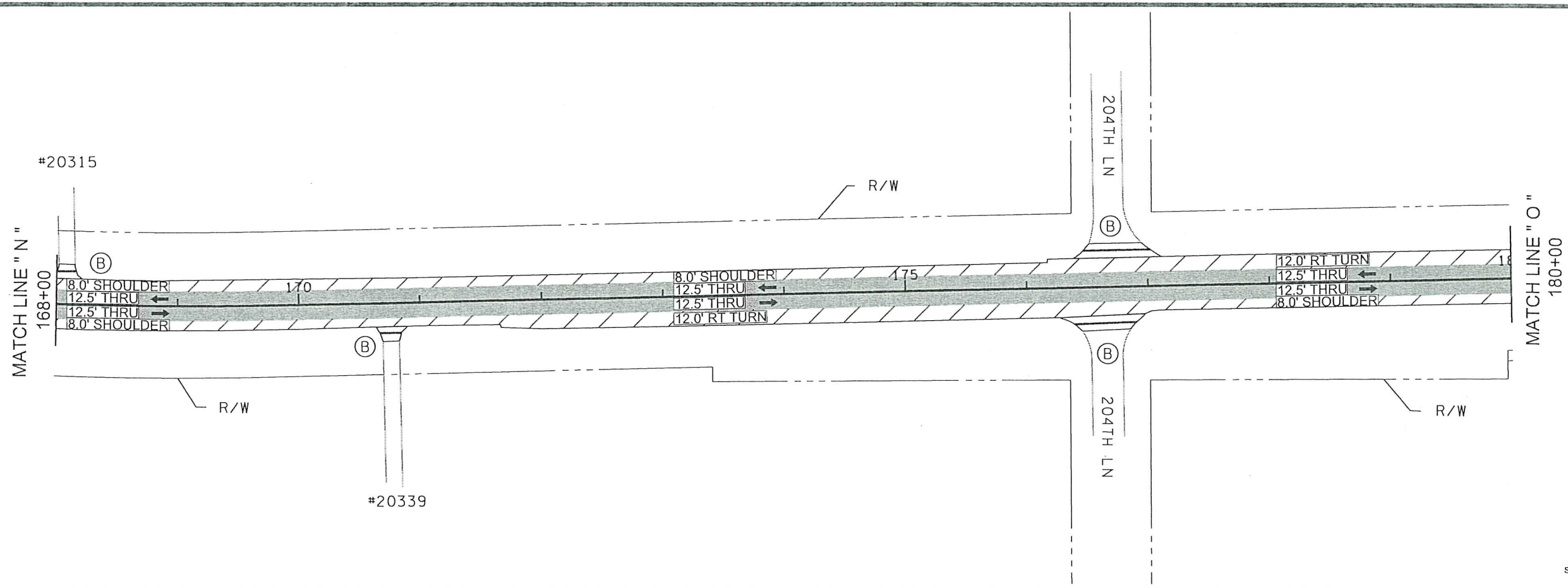
ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

PLAN

STA 144+00 TO 168+00

Sheet 18 of 57 Sheets



- 2.0" OVERLAY
- 0.5" MILL / 2" OVERLAY
- 1.5" OVERLAY
- 0.0" - 1.0" X 6' WIDE LIP MILL ALONG CURB / OVERLAY
- FULL DEPTH RECLAIM 4" OVERLAY
- MILL JOINT (F) = FLUME
- (B) = BIT, (G) = GRAVEL, (C) = CONCRETE

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan\13_PLAN_8.dgn 06/03/2013 7:14:18 AM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*

DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY: JF DATE: 4/19/2013

DESIGN BY: JF DATE: 4/19/2013

CHECKED BY: GA DATE: 4/22/2013

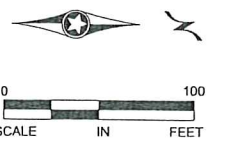
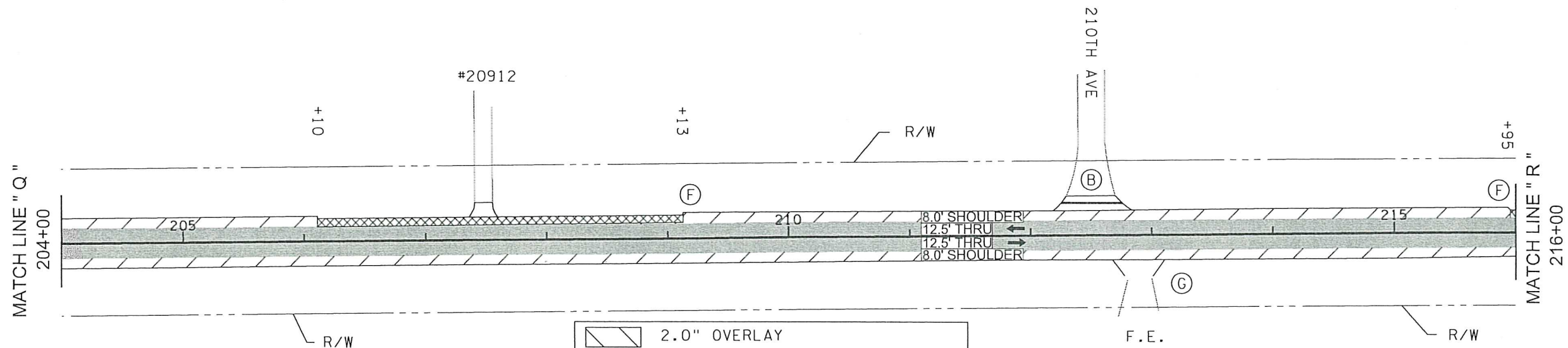
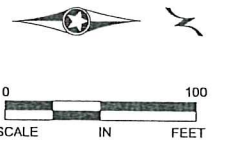
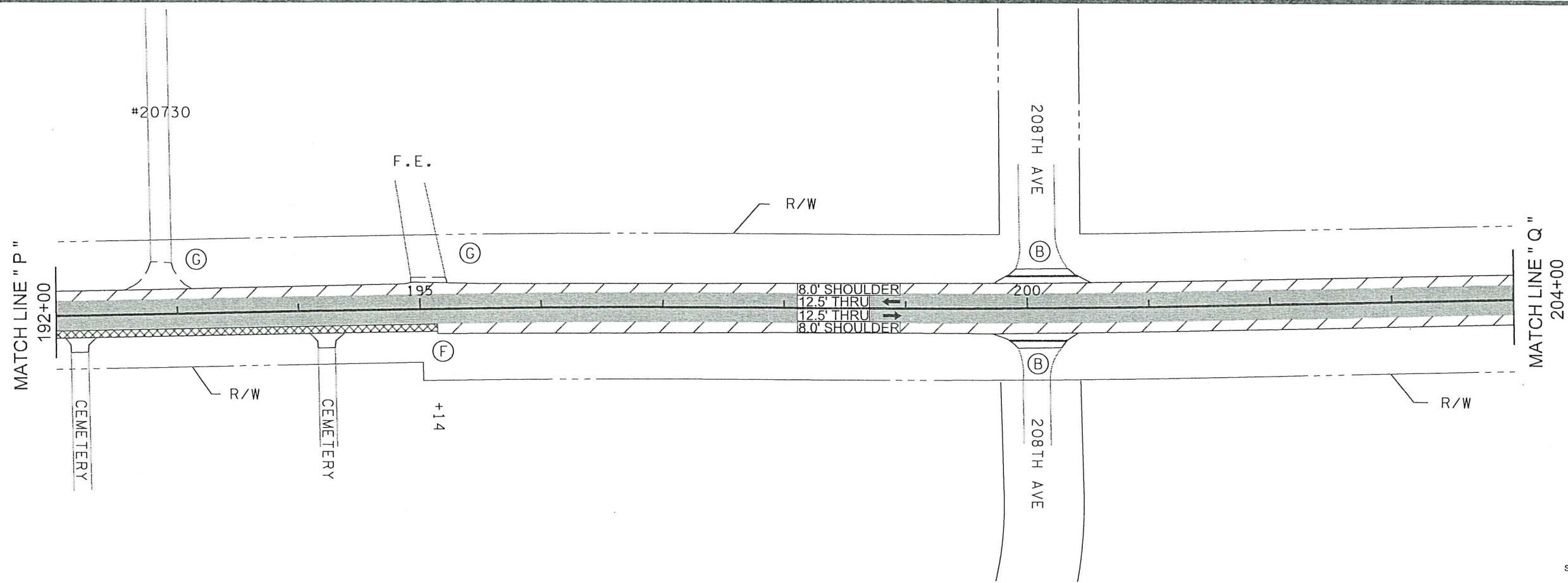
ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

PLAN

STA 168+00 TO 192+00

Sheet 19 of 57 Sheets



- 2.0" OVERLAY
- 0.5" MILL / 2" OVERLAY
- 1.5" OVERLAY
- 0.0" - 1.0" X 6' WIDE LIP MILL ALONG CURB / OVERLAY
- FULL DEPTH RECLAIM 4" OVERLAY
- MILL JOINT
- (F) = FLUME
- (B) = BIT , (G) = GRAVEL , (C) = CONCRETE

9 OF 15

NO	DATE	BY	CKD	APPR	REVISION

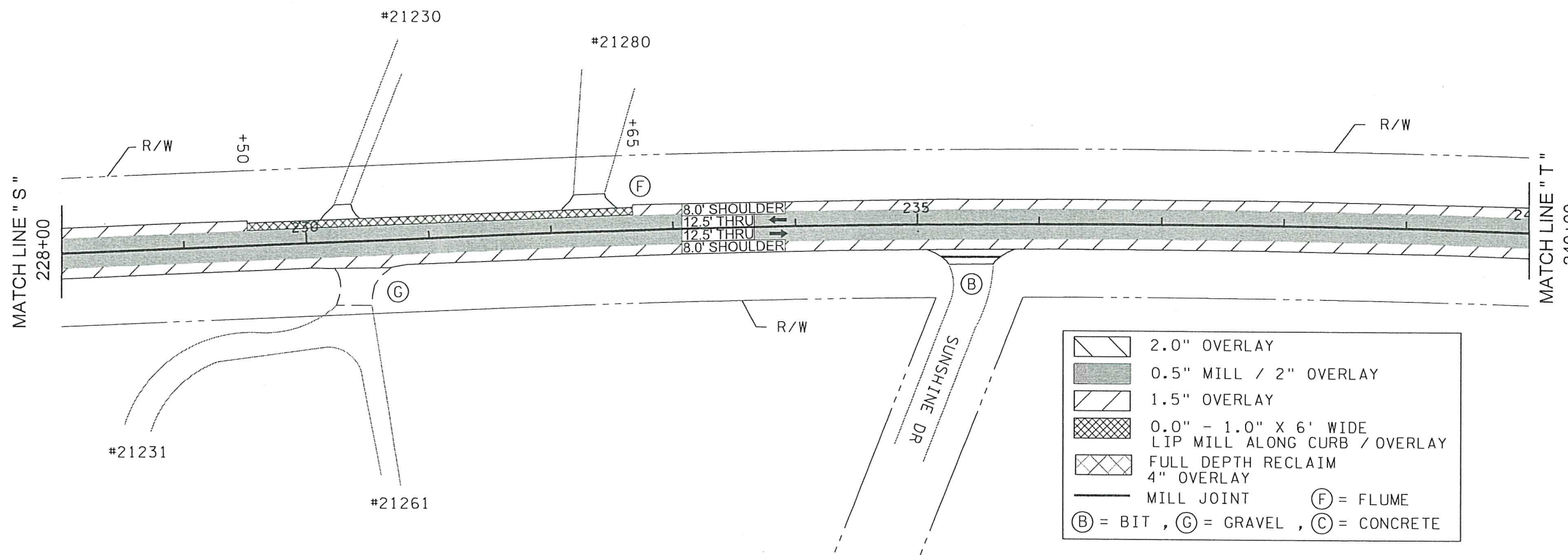
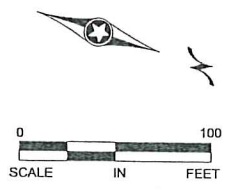
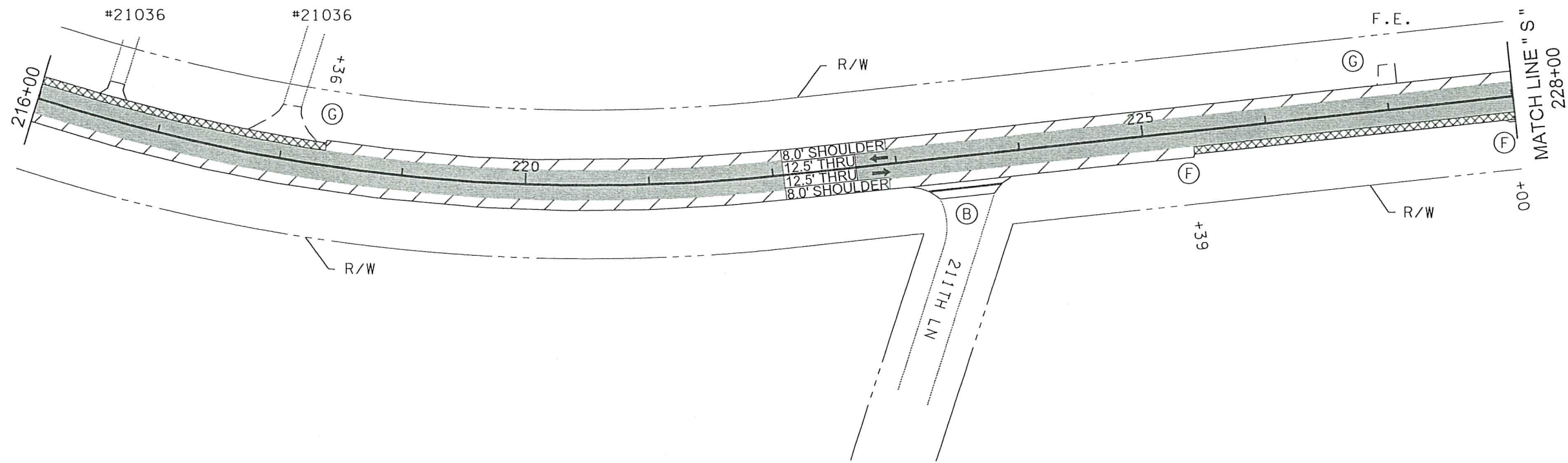
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013
 DESIGN BY JF DATE 4/19/2013
 CHECKED BY GA DATE 4/22/2013

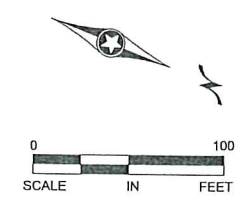
ANOKA COUNTY
 HIGHWAY DEPT.

SP 002-607-022

PLAN
 STA 192+00 TO 216+00
 Sheet 20 of 57 Sheets



- 2.0" OVERLAY
- 0.5" MILL / 2" OVERLAY
- 1.5" OVERLAY
- 0.0" - 1.0" X 6' WIDE LIP MILL ALONG CURB / OVERLAY
- FULL DEPTH RECLAIM 4" OVERLAY
- MILL JOINT
- (F) = FLUME
- (B) = BIT
- (G) = GRAVEL
- (C) = CONCRETE



10 OF 15

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan15_PLAN_10.dgn 06/03/2013 7:16:24 AM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*

DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY: JF DATE: 4/19/2013

DESIGN BY: JF DATE: 4/19/2013

CHECKED BY: GA DATE: 4/22/2013



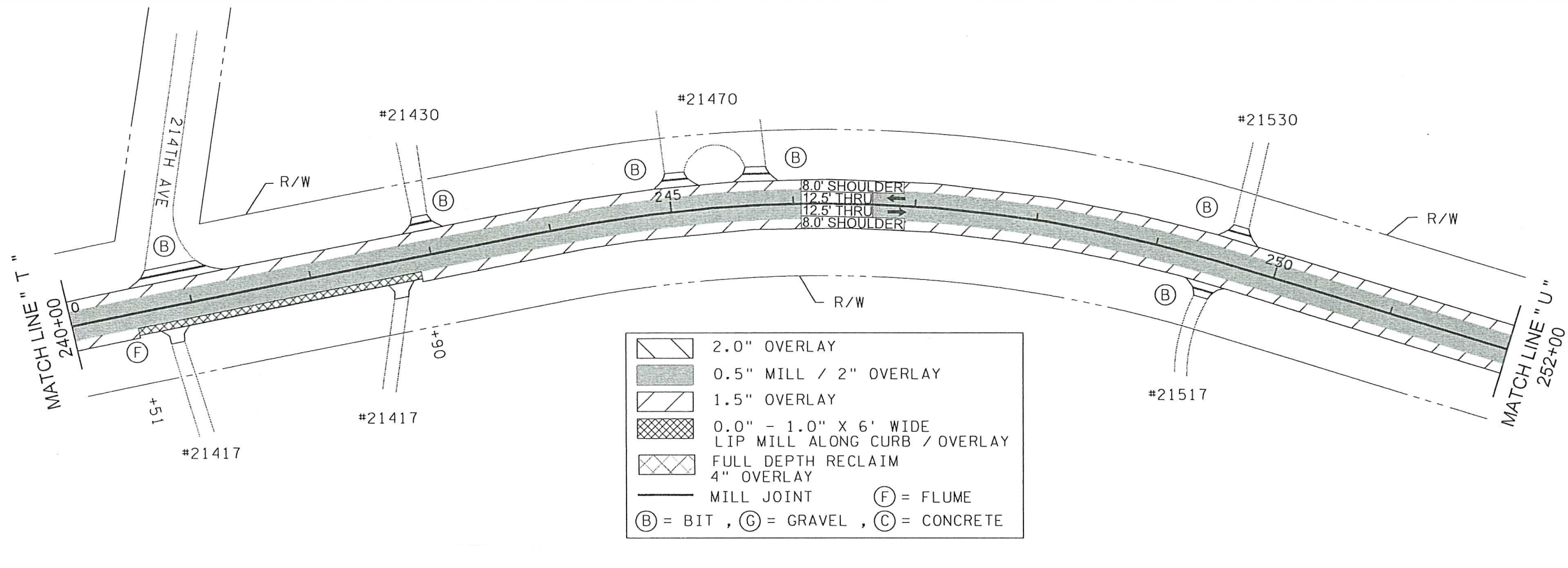
ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

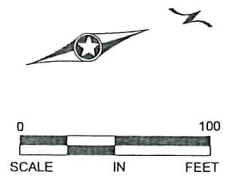
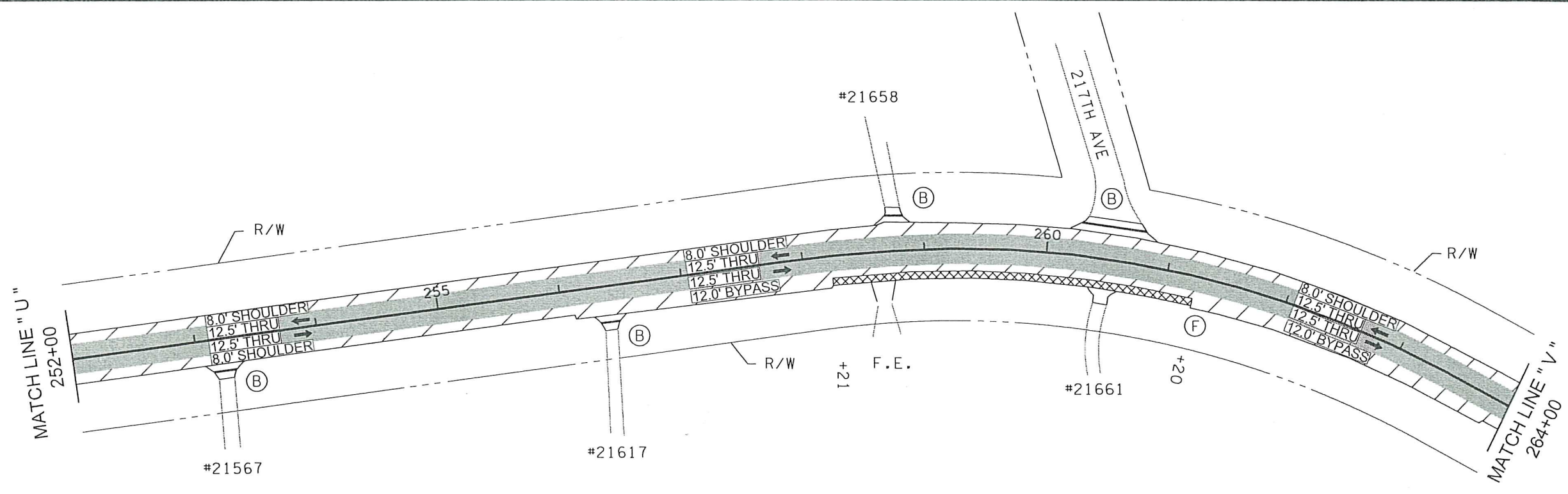
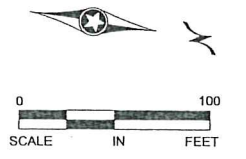
PLAN

STA 216+00 TO 240+00

Sheet 21 of 57 Sheets



- 2.0" OVERLAY
- 0.5" MILL / 2" OVERLAY
- 1.5" OVERLAY
- 0.0" - 1.0" X 6' WIDE LIP MILL ALONG CURB / OVERLAY
- FULL DEPTH RECLAIM 4" OVERLAY
- MILL JOINT
- (F) = FLUME
- (B) = BIT , (G) = GRAVEL , (C) = CONCRETE



11 OF 15

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan16_PLAN_11.dgn 06/03/2013 7:17:13 AM

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*

DATE: 6/13/13 LICENSE NO. 42757

DRAWN BY: JF DATE: 4/19/2013

DESIGN BY: JF DATE: 4/19/2013

CHECKED BY: GA DATE: 4/22/2013

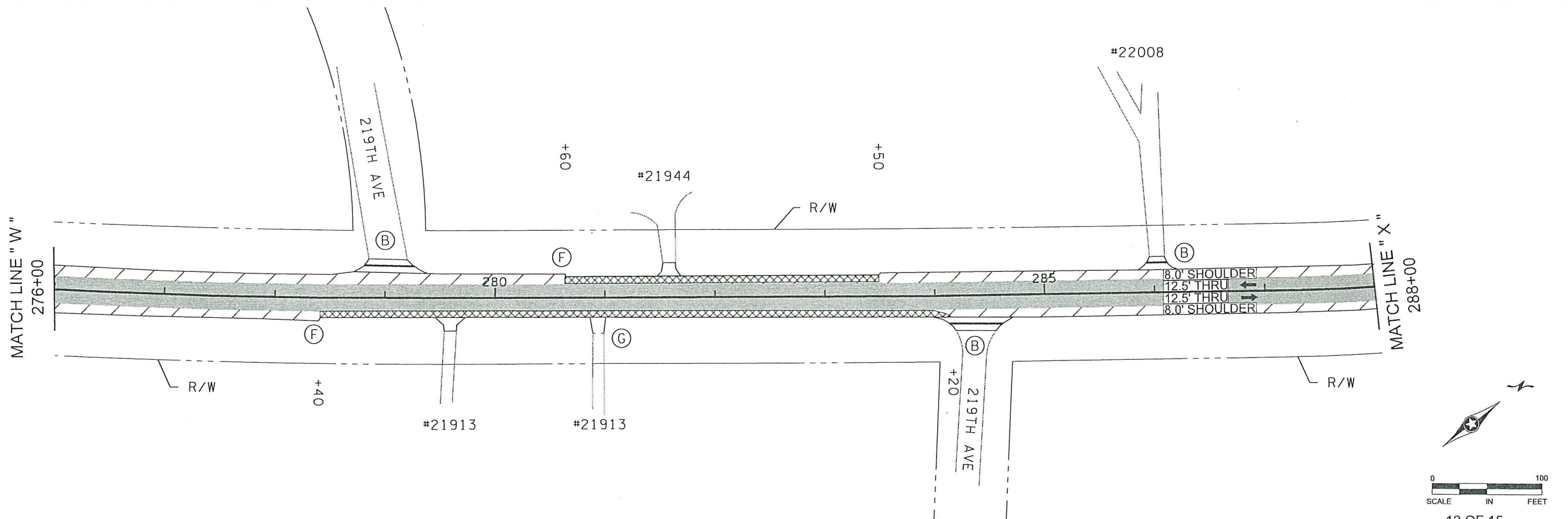
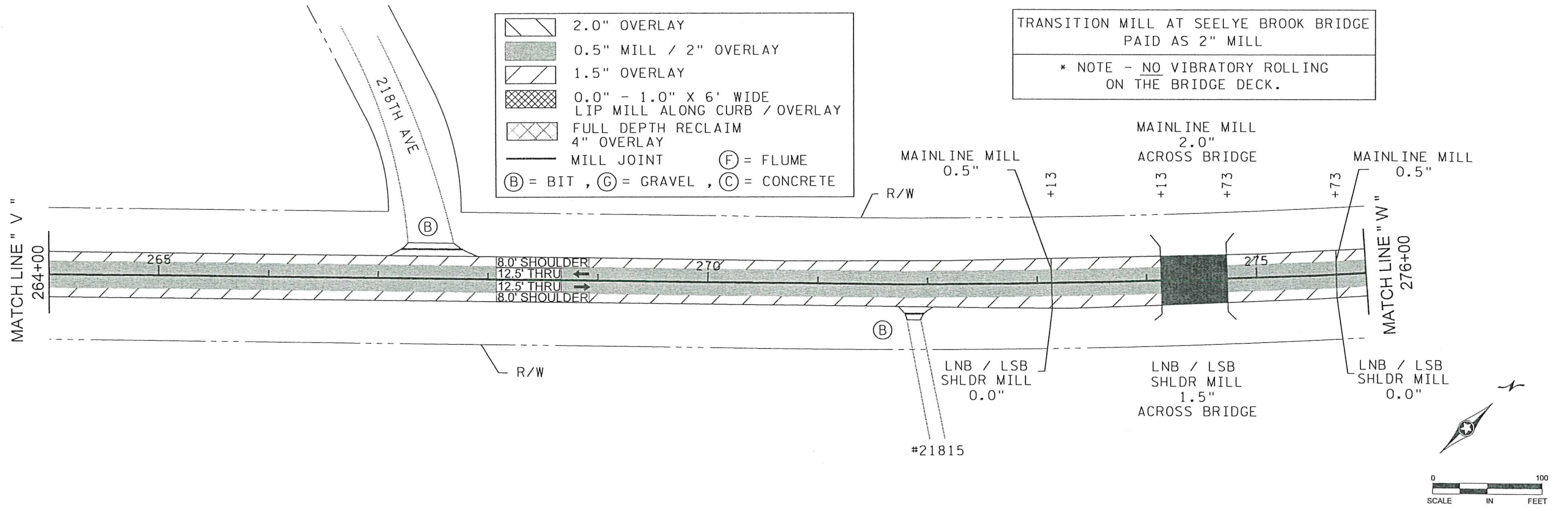
ANOKA COUNTY HIGHWAY DEPT.

SP 002-607-022

PLAN

STA 240+00 TO 264+00

Sheet 22 of 57 Sheets



12 OF 15

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan17_PLAN_12.dgn 05/03/2013 7:18:03 AM

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 6/17/13 LICENSE NO. 42757

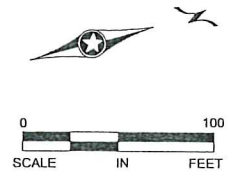
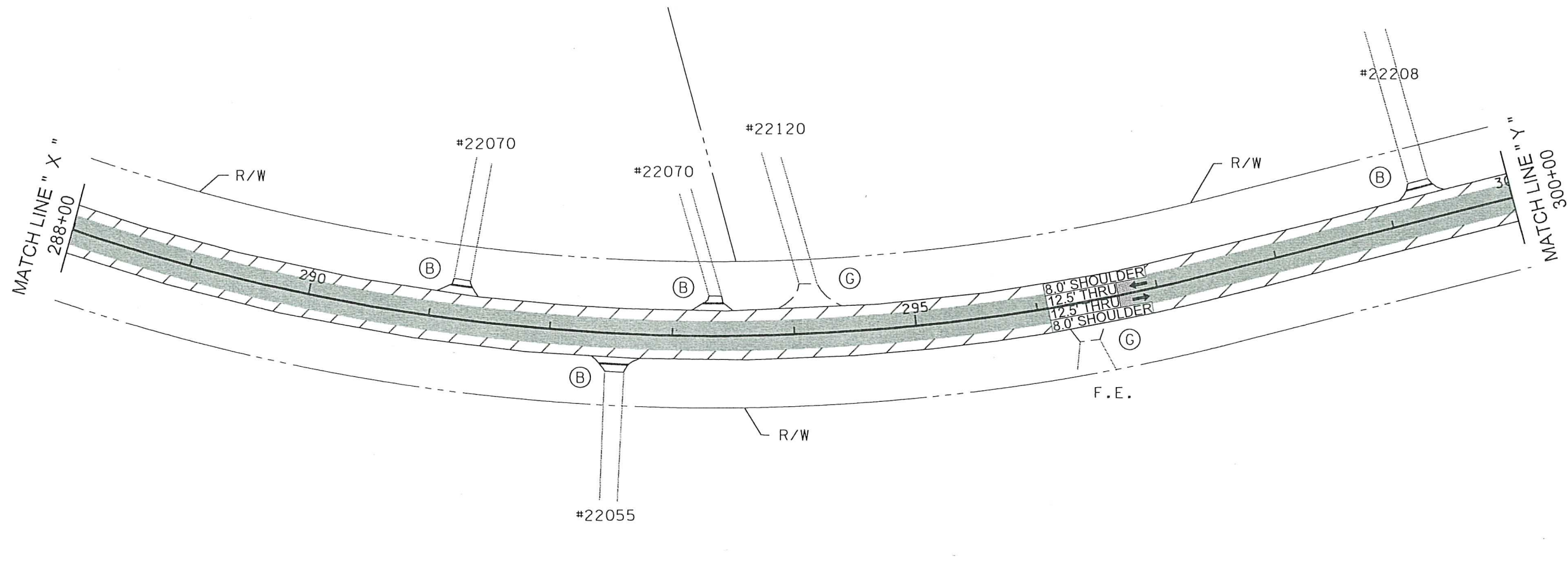
DRAWN BY: JF DATE: 4/19/2013
 DESIGN BY: JF DATE: 4/19/2013
 CHECKED BY: GA DATE: 4/22/2013



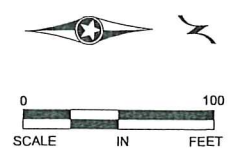
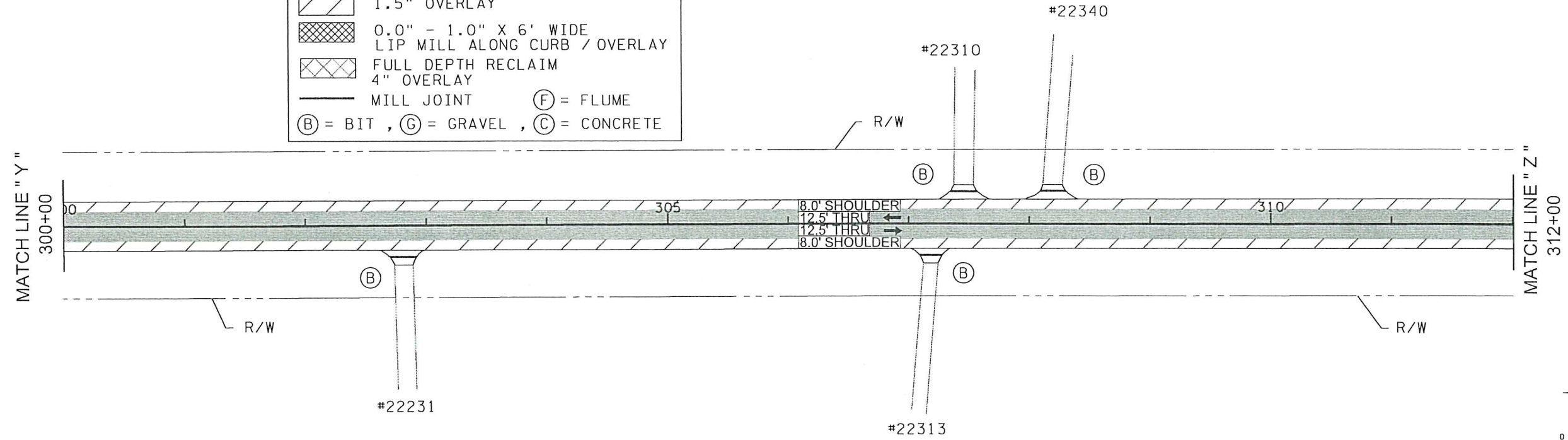
ANOKA COUNTY
 HIGHWAY DEPT.

SP 002-607-022

PLAN
 STA 264+00 TO 288+00
 Sheet 23 of 57 Sheets



- 2.0" OVERLAY
- 0.5" MILL / 2" OVERLAY
- 1.5" OVERLAY
- 0.0" - 1.0" X 6' WIDE LIP MILL ALONG CURB / OVERLAY
- FULL DEPTH RECLAIM 4" OVERLAY
- MILL JOINT
- (F) = FLUME
- (B) = BIT
- (G) = GRAVEL
- (C) = CONCRETE



13 OF 15

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan18_PLAN_13.dgn 06/03/2013 7:18:59 AM

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

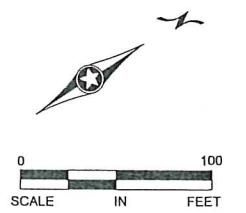
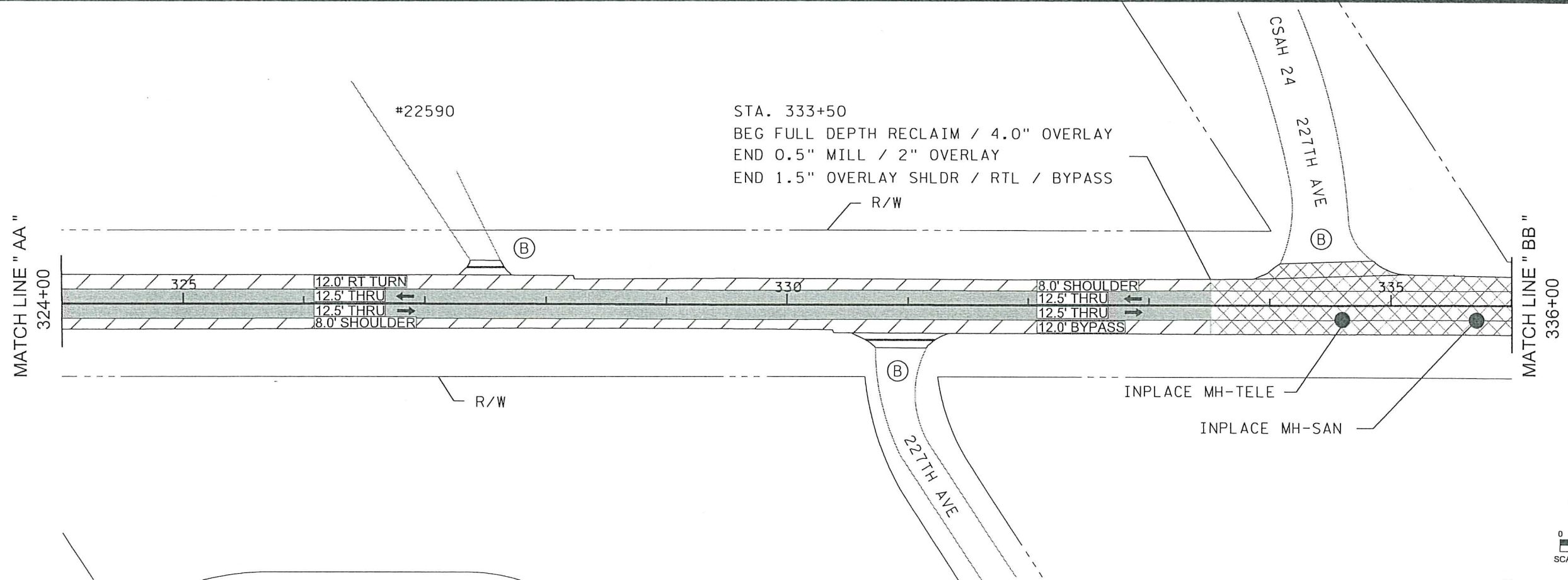
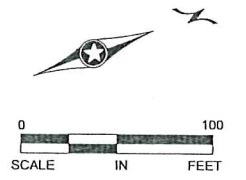
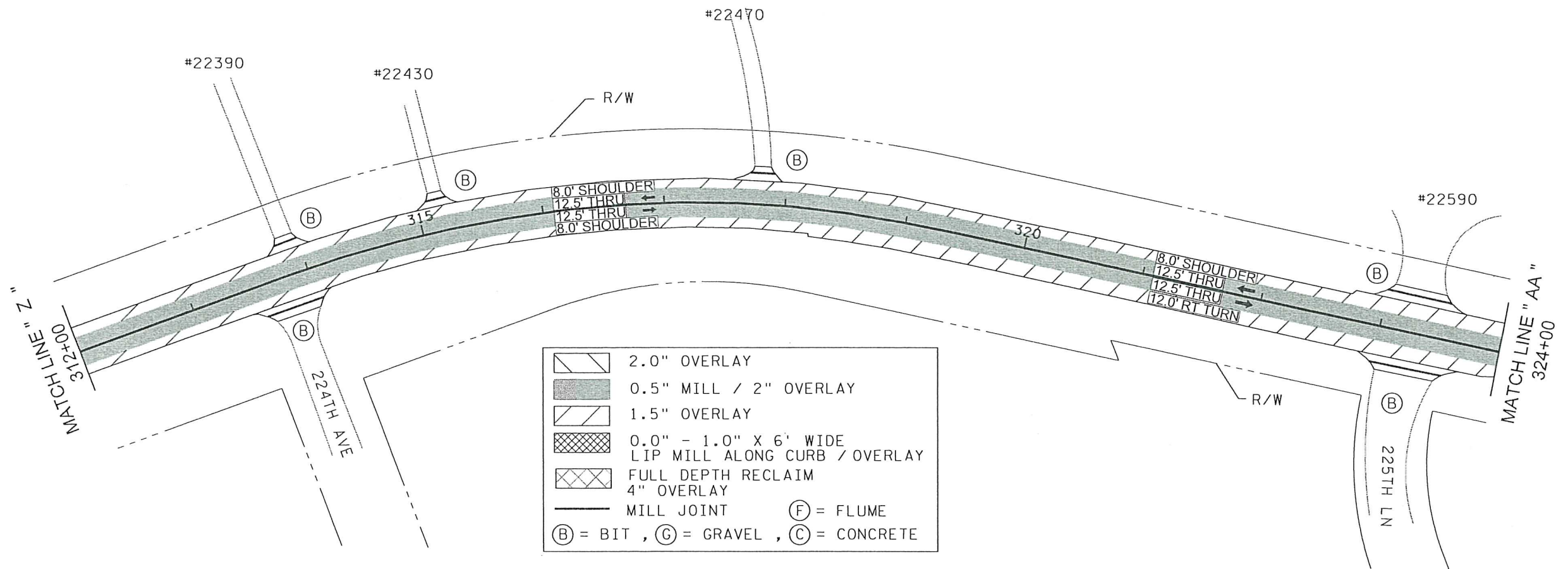
PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/11/13 LICENSE NO. 42757

DRAWN BY: JF DATE: 4/19/2013
 DESIGN BY: JF DATE: 4/19/2013
 CHECKED BY: GA DATE: 4/22/2013

ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

PLAN
 STA 288+00 TO 312+00
 Sheet 24 of 57 Sheets



14 OF 15

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan19_PLAN_14.dgn 06/03/2013 7:19:58 AM

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

PRINT NAME: ANDREW WITTER
 SIGNATURE: *[Signature]*
 DATE: 6/17/13 LICENSE NO. 42757

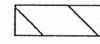

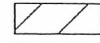
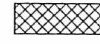

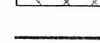




DRAWN BY: JF DATE: 4/19/2013
 DESIGN BY: JF DATE: 4/19/2013
 CHECKED BY: GA DATE: 4/22/2013

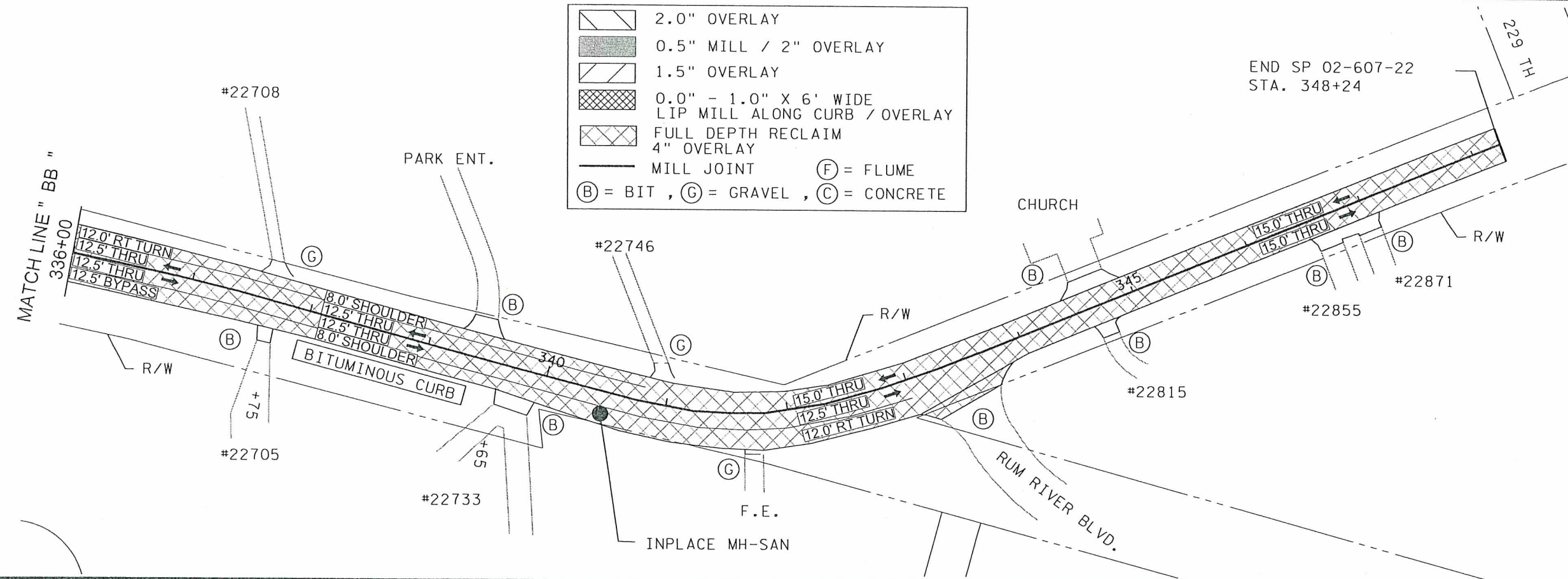


**ANOKA COUNTY
HIGHWAY DEPT.**

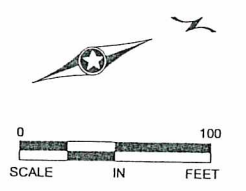
SP 002-607-022

PLAN
 STA 312+00 TO 336+00
 Sheet 25 of 57 Sheets

-  2.0" OVERLAY
-  0.5" MILL / 2" OVERLAY
-  1.5" OVERLAY
-  0.0" - 1.0" X 6' WIDE LIP MILL ALONG CURB / OVERLAY
-  FULL DEPTH RECLAIM 4" OVERLAY
-  MILL JOINT
-  (F) = FLUME
-  (B) = BIT
-  (G) = GRAVEL
-  (C) = CONCRETE



END SP 02-607-22
STA. 348+24



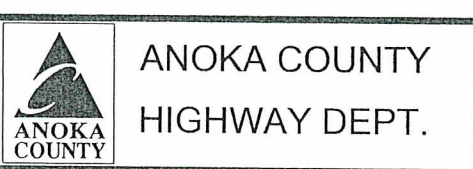
NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-22\Plan20_PLAN_15.dgn 06/03/2013 7:20:59 AM

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

PRINT NAME: ANDREW WITTER
SIGNATURE: *Andrew Witter*
DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY JF DATE 4/19/2013
DESIGN BY JF DATE 4/19/2013
CHECKED BY GA DATE 4/22/2013



ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

PLAN

STA 336+00 TO 348+24

Sheet 26 of 57 Sheets

PERMANENT PAVEMENT MARKING PLAN
NOTES AND GUIDELINES

GENERAL INFORMATION:

THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD CONSULTATION AND INSPECTION. ANOKA COUNTY HIGHWAY DEPARTMENT 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 TREATMENT AND/OR LAITANCE ON LOW SPEED (SPEED LIMIT 35 MPH 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 BEANS 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 FAHRENHEIT OR GREATER.

PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.

PREFORMED THERMOPLASTIC:

THE PREFORMED THERMOPLASTIC MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ON CLEAN AND DRY SURFACES. SEE SPECIAL PROVISIONS FOR PREFORMED THERMOPLASTIC MARKING SPECIFICATIONS.

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 DEGREES FARHENHEIT OR HIGHER AND SHALL NOT BE APPLIED WHEN THE WIND OR OTHER CONDITIONS CAUSE A FILD OR 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.

SYMBOLS & MATERIALS LEGEND

 CROSSWALK BLOCK WHITE PREFORMED THERMOPLASTIC

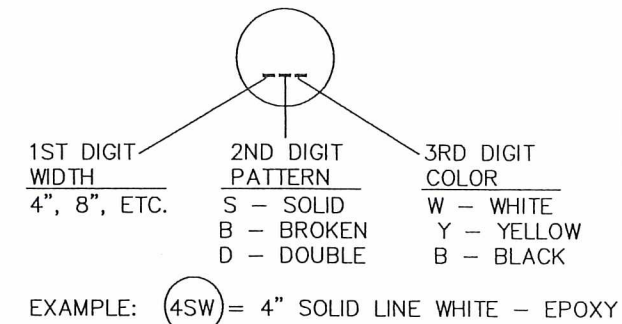
 PAVEMENT MESSAGE (LEFT ARROW) PREFORMED THERMOPLASTIC

STRIPING KEY

 CIRCLE - EPOXY  SQUARE PREFORMED THERMOPLASTIC

 TRIANGLE - PAINT

 PENTAGON - REMOVABLE PREFORMED PLASTIC MARKING




EXAMPLE: (4SW) = 4" SOLID LINE WHITE - EPOXY

PERMANENT PAVEMENT MARKING TABULATION		
ITEM	Quantity	Units
4" Solid Line White - Epoxy	71600	Lin Ft
4" Broken Line White - Epoxy (10 ft stripe / 40 ft gap)	80	Lin Ft
4" Solid Line Yellow - Epoxy	7850	Lin Ft
4" Broken Line Yellow - Epoxy (10 ft stripe / 40 ft gap)	5310	Lin Ft
4" Double Solid Line Yellow - Epoxy	8450	Lin Ft

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\13-01-00\CSAH 28\Bases\TRAFFIC\Perm pvmt mrkg guide notes_guidelines.dwg

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: ANDREW WITTER
SIGNATURE: 
DATE: 4/13/13 LICENSE NO. 42757

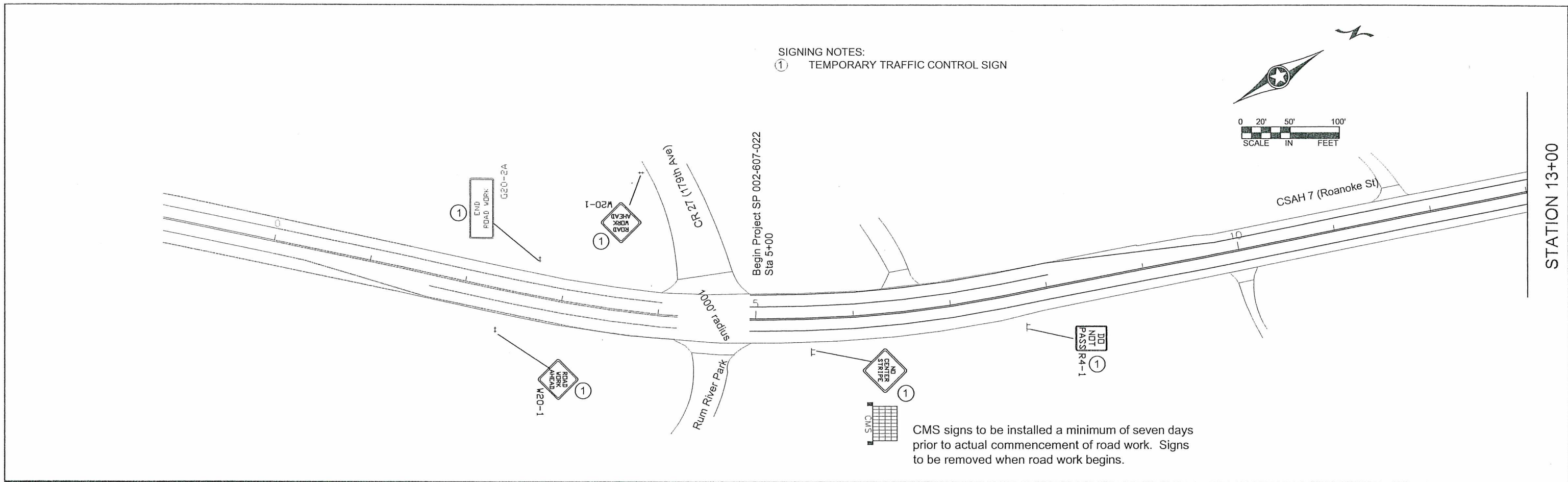
DRAWN BY: MTH DATE 12/27/2012
DESIGN BY: MTH DATE 12/27/2012
CHECKED BY: JR DATE 02/25/2013



ANOKA COUNTY
HIGHWAY DEPT.

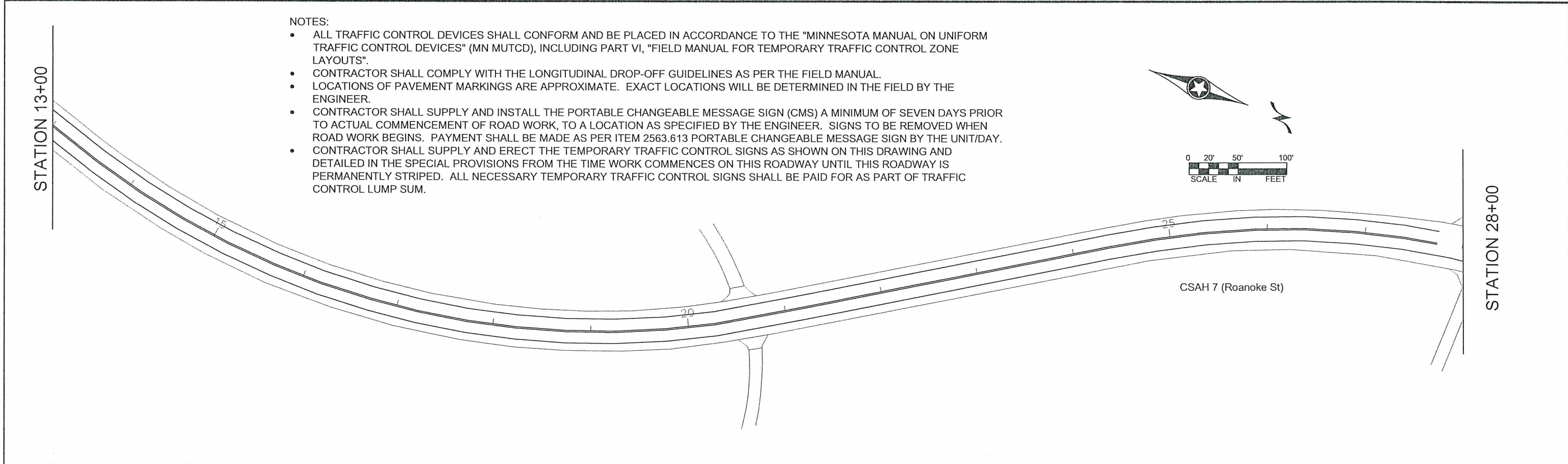
SP 002-607-022

PERMANENT MARKING
TABULATION



SIGNING NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN

CMS signs to be installed a minimum of seven days prior to actual commencement of road work. Signs to be removed when road work begins.



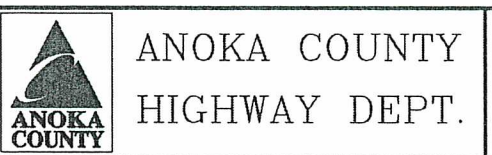
- NOTES:
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
 - CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
 - LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
 - CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Temporary Signing_Striping.dwg

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *[Signature]*
 DATE: 6/7/13 LICENSE NO. 42757

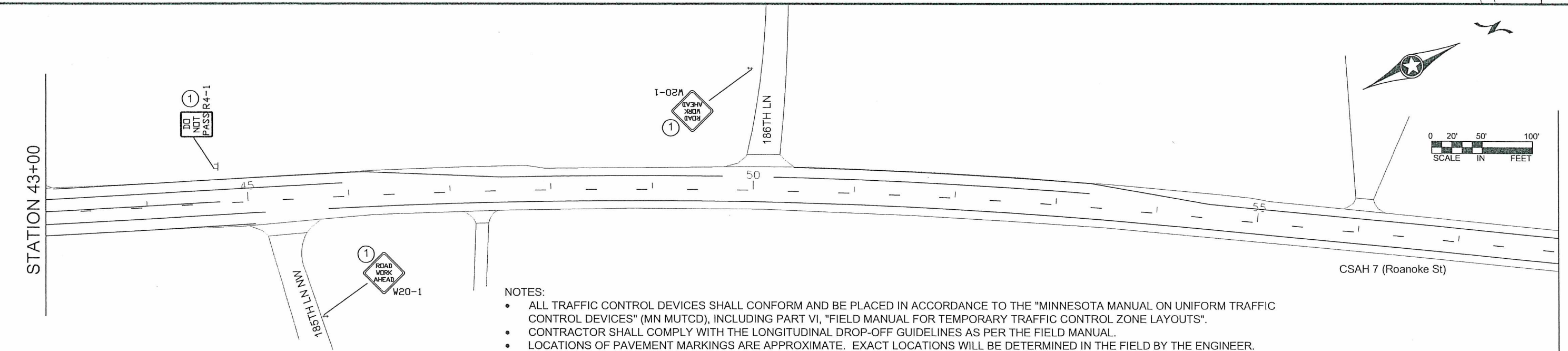
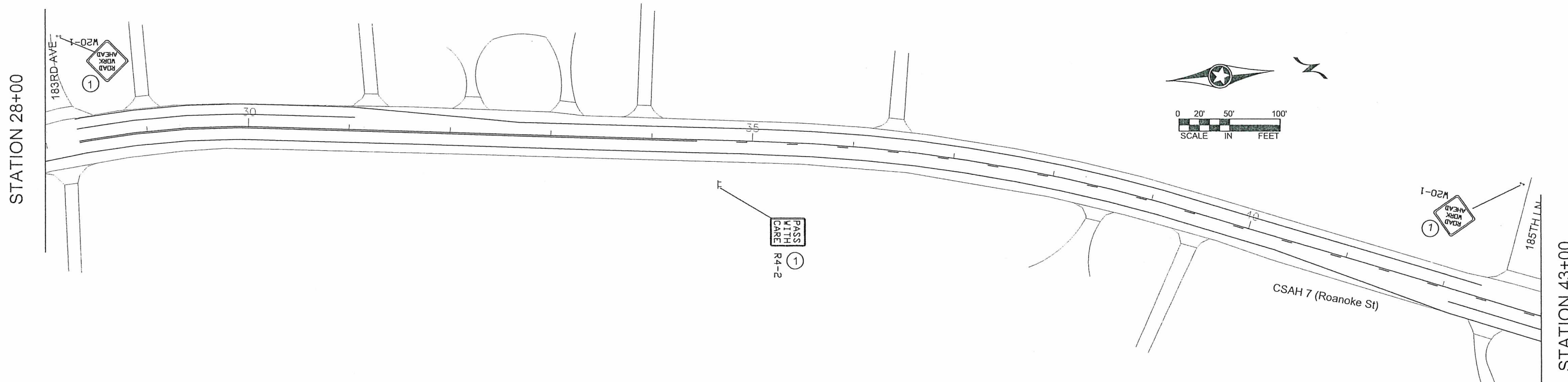
DRAWN BY: MTH DATE: 04/18/13
 DESIGN BY: MTH DATE: 04/18/13
 CHECKED BY: RB DATE: 05/23/13



ANOKA COUNTY
 HIGHWAY DEPT.
 SP 002-607-022

TEMPORARY SIGNING & STRIPING PLAN
 Sheet 28 of 57 Sheets

SIGNING NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN



NOTES:


- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/11/13 LICENSE NO. 42757

DRAWN BY: MTH DATE: 04/18/13
 DESIGN BY: MTH DATE: 04/18/13
 CHECKED BY: RB DATE: 05/23/13

ANOKA COUNTY
 HIGHWAY DEPT.

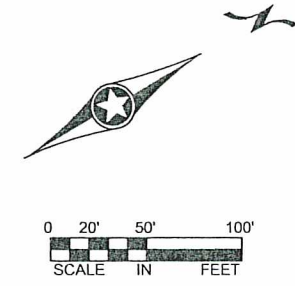


SP 002-607-022

TEMPORARY SIGNING & STRIPING PLAN
 Sheet 29 of 57 Sheets

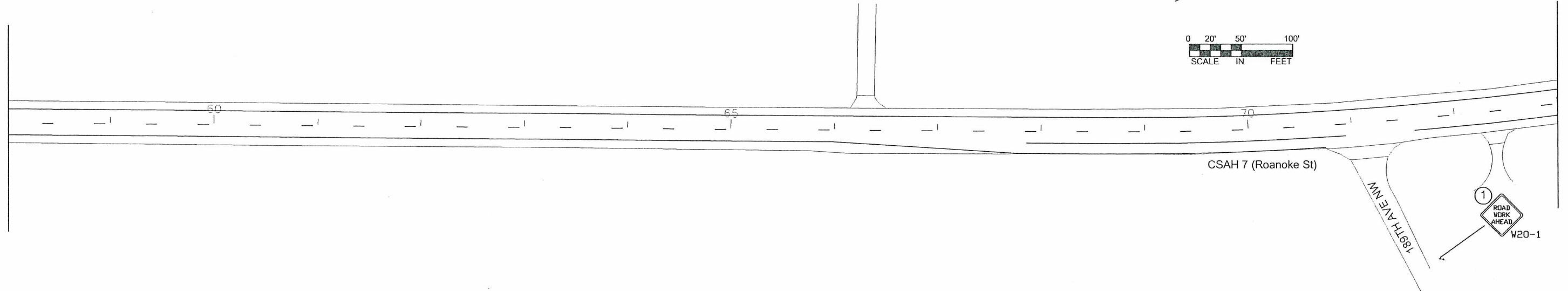
NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.



STATION 58+00

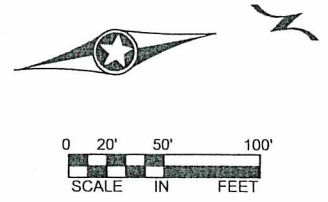
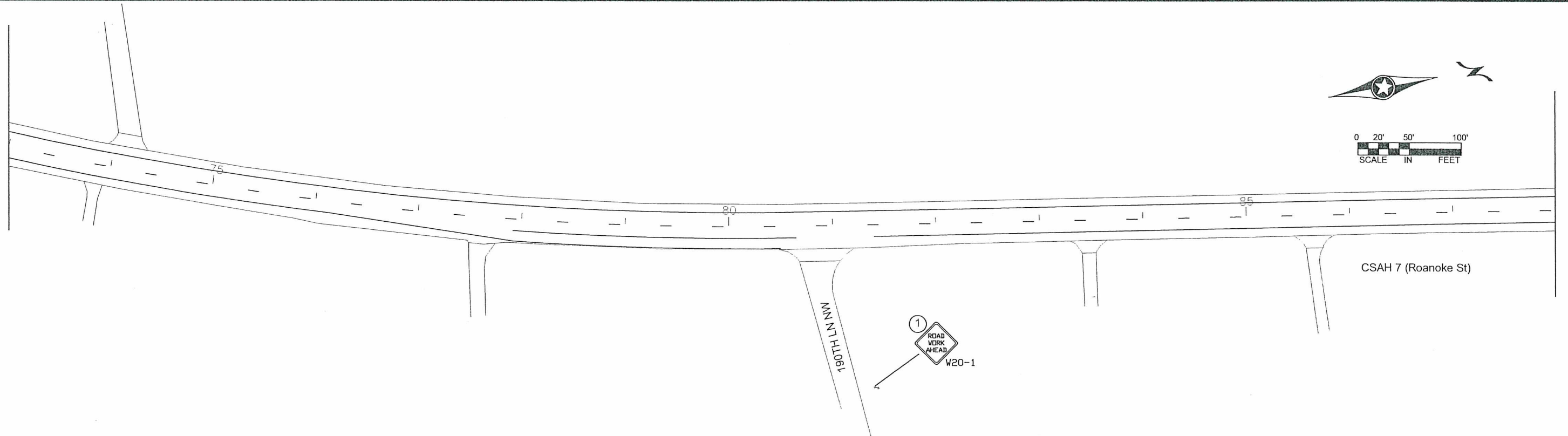
STATION 73+00



SIGNING NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN

STATION 73+00

STATION 88+00



NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/18/13 LICENSE NO. 42757

ANOKA COUNTY HIGHWAY DEPT.
 DRAWN BY: MTH DATE: 04/18/13
 DESIGN BY: MTH DATE: 04/18/13
 CHECKED BY: RB DATE: 05/23/13

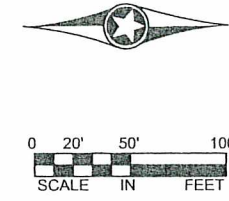
SP 002-607-022

TEMPORARY SIGNING & STRIPING PLAN
 Sheet 30 of 57 Sheets

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Temporary_Signing_Striping.dwg

NOTES:

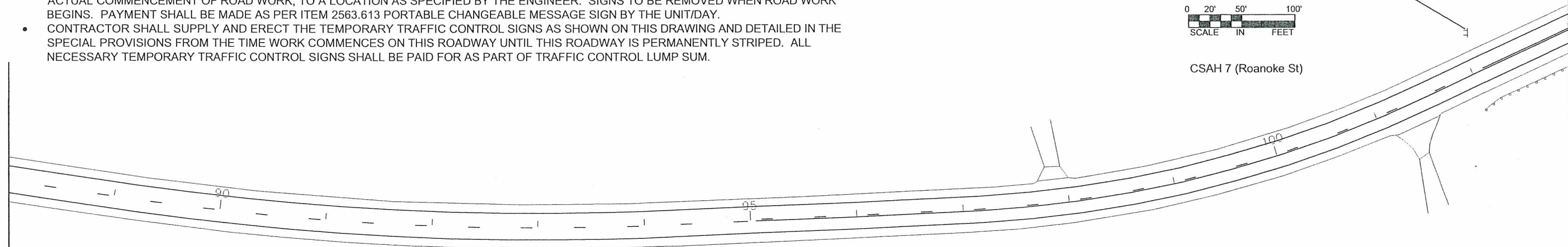
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.



CSAH 7 (Roanoke St)

STATION 88+00

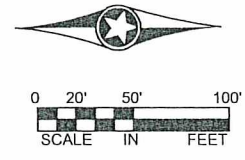
STATION 103+00



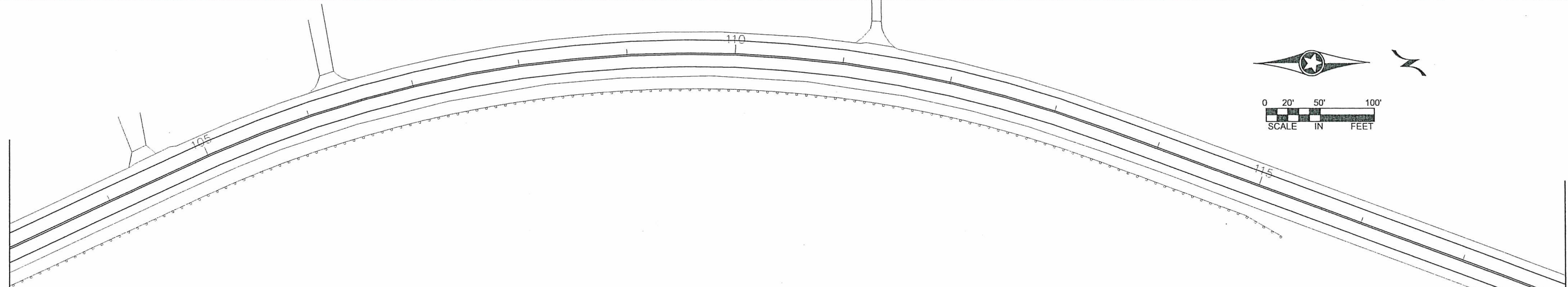
SIGNING NOTES:
① TEMPORARY TRAFFIC CONTROL SIGN

STATION 103+00

STATION 118+00



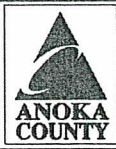
CSAH 7 (Roanoke St)



NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/18/13 LICENSE NO. 42757

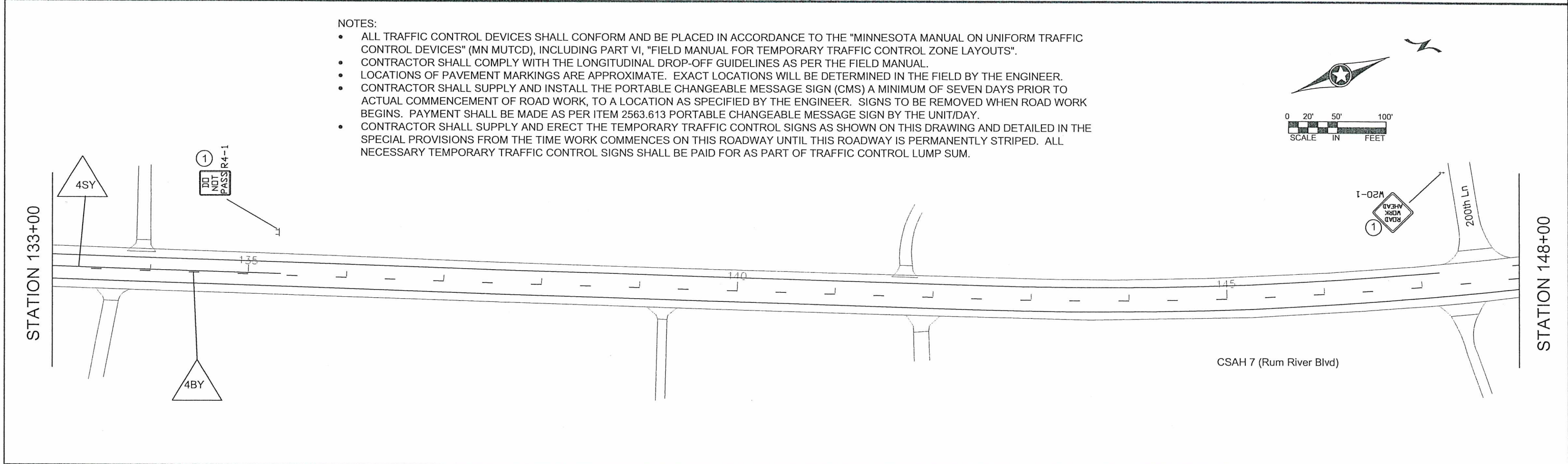
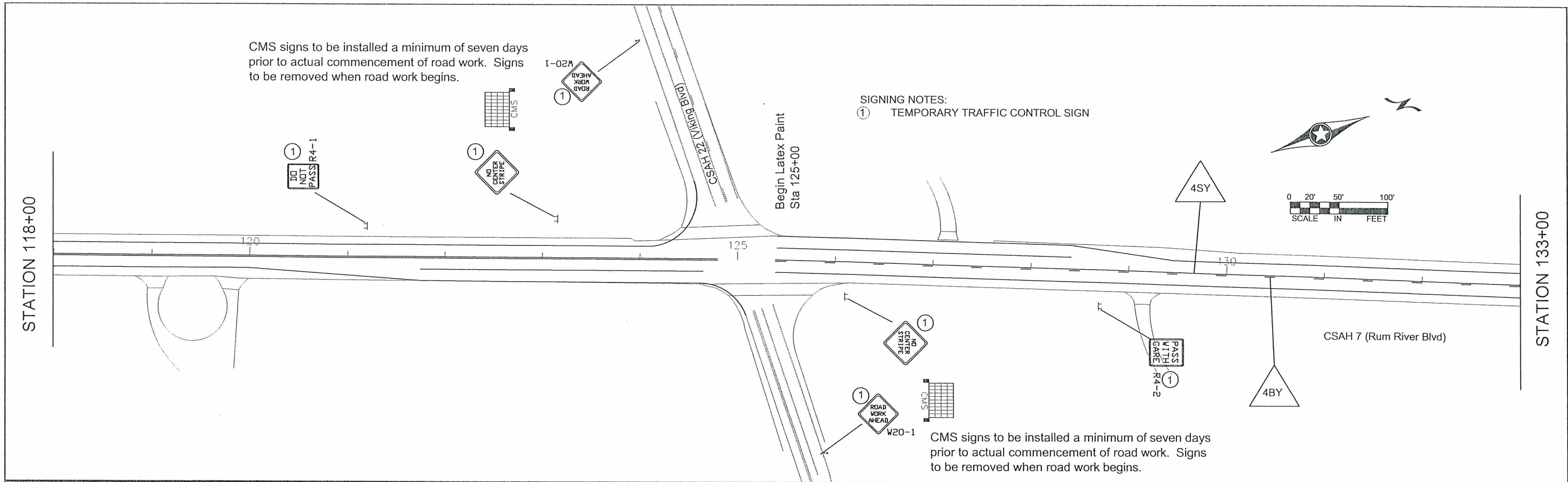
DRAWN BY: MTH DATE: 04/18/13
 DESIGN BY: MTH DATE: 04/18/13
 CHECKED BY: RB DATE: 05/23/13



ANOKA COUNTY
 HIGHWAY DEPT.

SP 002-607-022

TEMPORARY SIGNING &
 STRIPING PLAN
 Sheet 31 of 57 Sheets



NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.

NO	DATE	BY	CHKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY MTH DATE 04/18/13
 DESIGN BY MTH DATE 04/18/13
 CHECKED BY RB DATE 05/23/13

ANOKA COUNTY
 HIGHWAY DEPT.

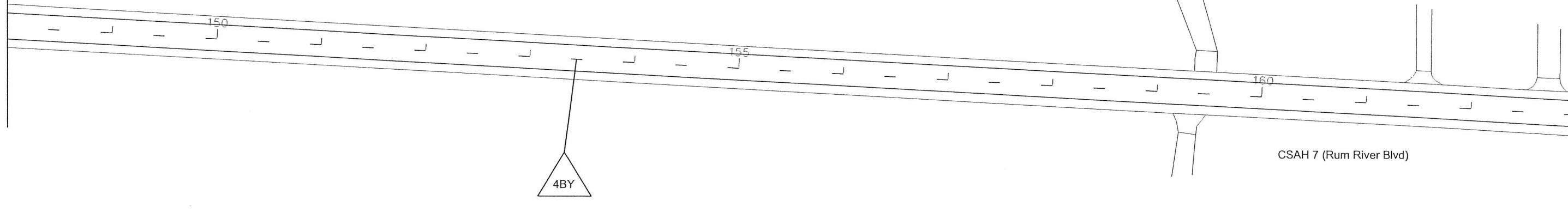
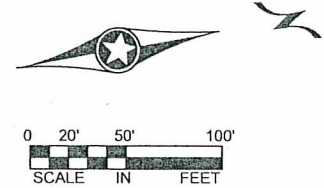
SP 002-607-022

TEMPORARY SIGNING & STRIPING PLAN

Sheet 32 of 57 Sheets

STATION 148+00

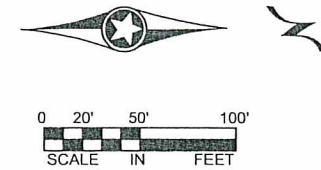
SIGNING NOTES:
① TEMPORARY TRAFFIC CONTROL SIGN



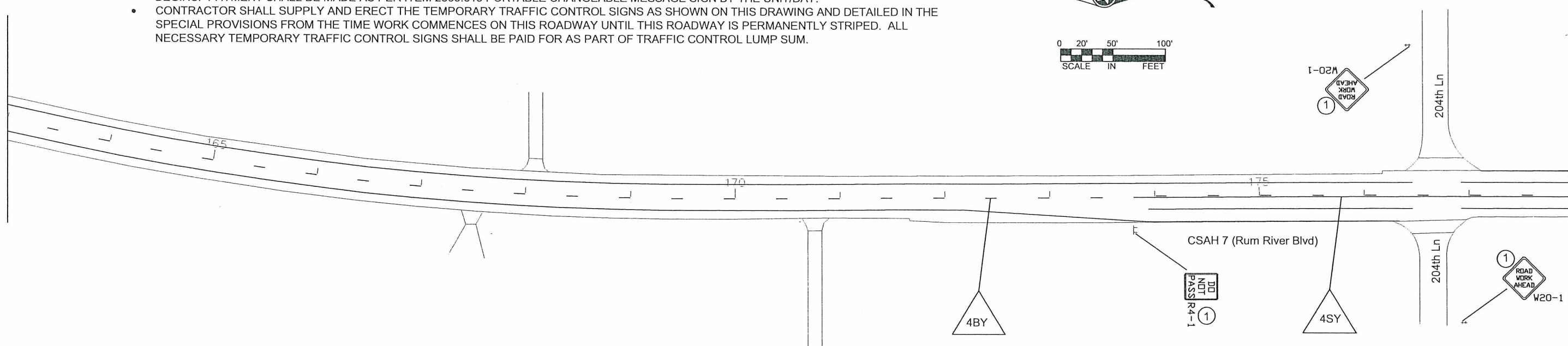
STATION 163+00

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.



STATION 163+00



STATION 178+00

NO	DATE	BY	CHKD	APPR	REVISION

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

PRINT NAME: ANDREW WITTER

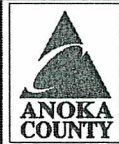
SIGNATURE: *Andrew Witter*

DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE: 04/18/13

DESIGN BY: MTH DATE: 04/18/13

CHECKED BY: RB DATE: 05/23/13



ANOKA COUNTY
HIGHWAY DEPT.

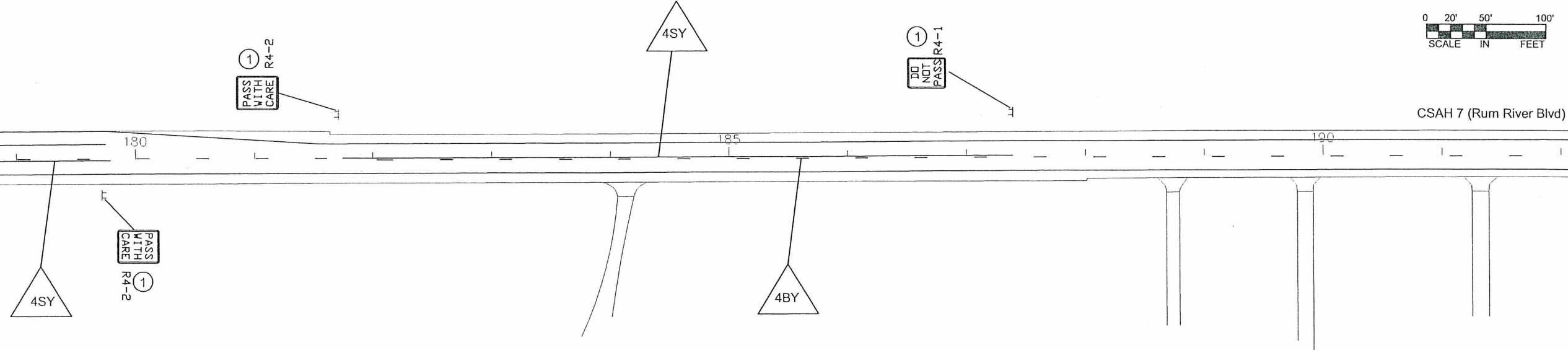
SP 002-607-022

TEMPORARY SIGNING &
STRIPING PLAN

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.

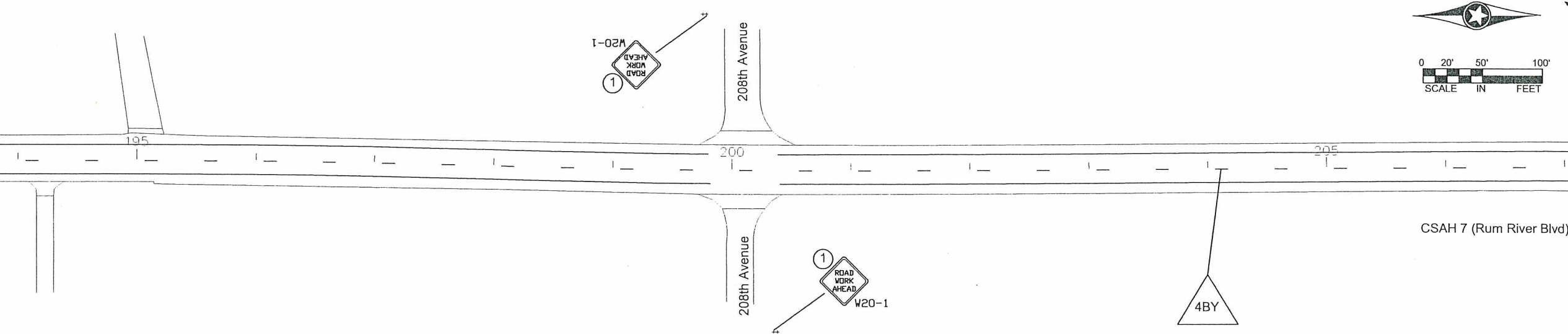
STATION 178+00



STATION 193+00

SIGNING NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN

STATION 193+00



STATION 208+00

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/17/13 LICENSE NO. 42757

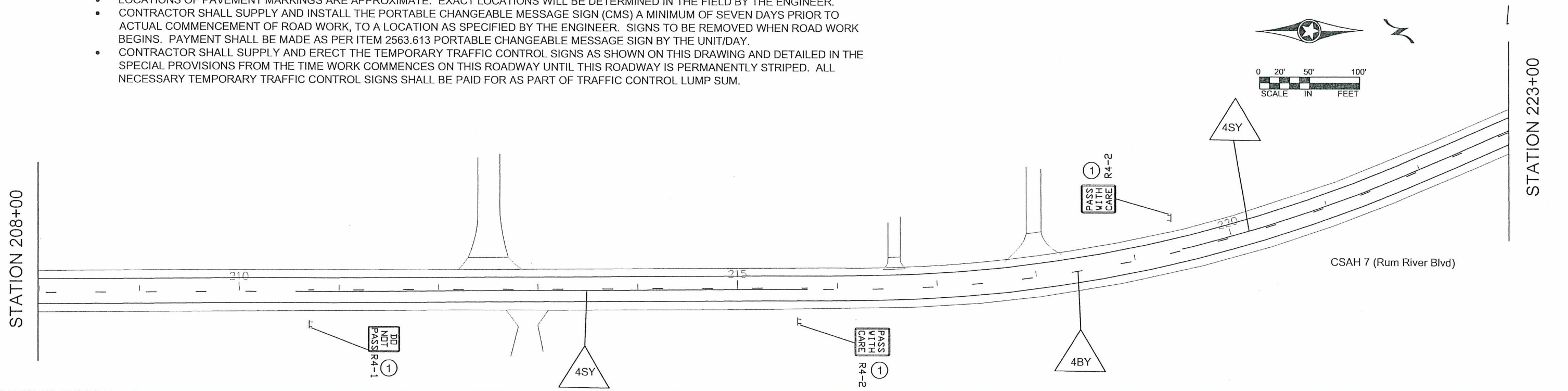
ANOKA COUNTY HIGHWAY DEPT.
 DRAWN BY: MTH DATE: 04/18/13
 DESIGN BY: MTH DATE: 04/18/13
 CHECKED BY: RB DATE: 05/23/13

SP 002-607-022
 Sheet 34 of 57 Sheets

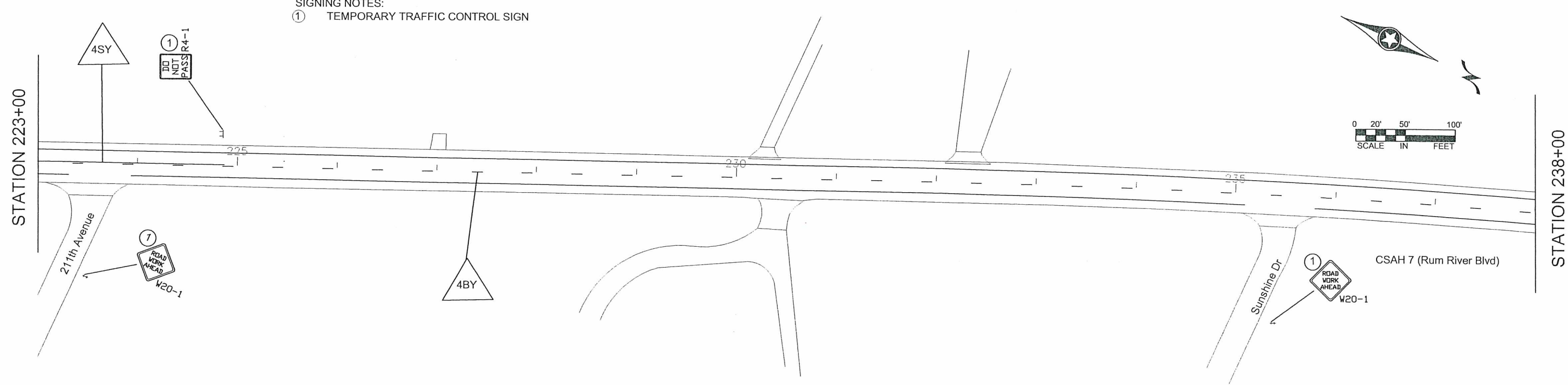
TEMPORARY SIGNING & STRIPING PLAN

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.



SIGNING NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN

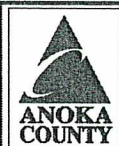


NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Temporary_Signing_Striping.dwg

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/18/13 LICENSE NO. 42757

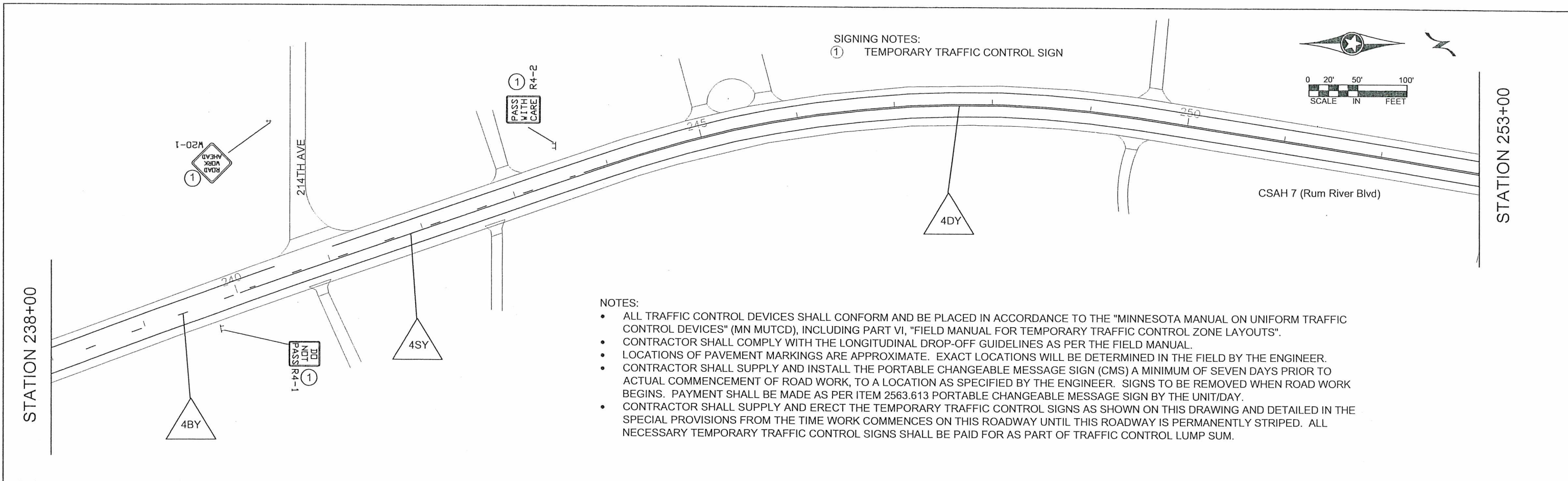
DRAWN BY: MTH DATE 04/18/13
 DESIGN BY: MTH DATE 04/18/13
 CHECKED BY: RB DATE 05/23/13



ANOKA COUNTY
 HIGHWAY DEPT.

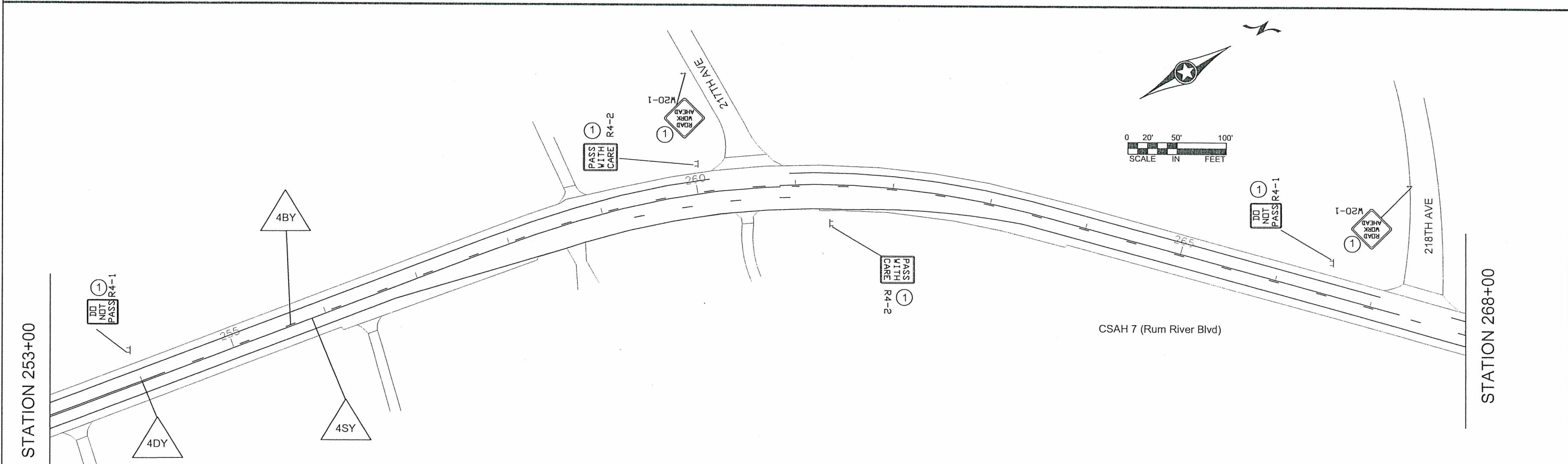
SP 002-607-022

TEMPORARY SIGNING &
 STRIPING PLAN



SIGNING NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN

- NOTES:
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
 - CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
 - LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
 - CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: <u>ANDREW WITTER</u> SIGNATURE: <u><i>Andrew Witter</i></u> DATE: <u>6/17/13</u> LICENSE NO. <u>42757</u>					DRAWN BY <u>MTH</u> DATE <u>04/18/13</u> DESIGN BY <u>MTH</u> DATE <u>04/18/13</u> CHECKED BY <u>RB</u> DATE <u>05/23/13</u>		ANOKA COUNTY HIGHWAY DEPT.		SP <u>002-607-022</u>		TEMPORARY SIGNING & STRIPING PLAN	
NO	DATE	BY	CKD	APPR	REVISION	NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Temporary Signing_Striping.dwg						
						Sheet <u>36</u> of <u>57</u> Sheets						

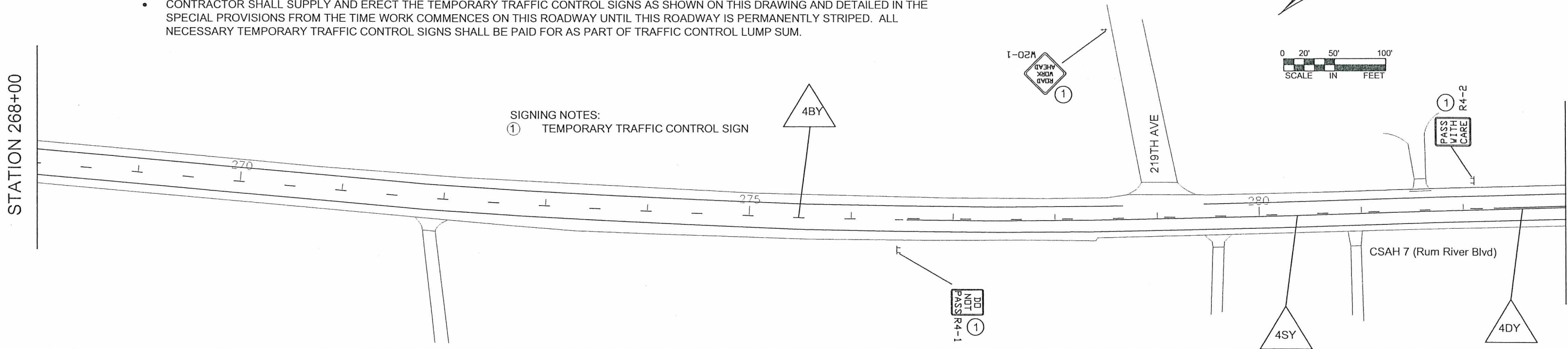
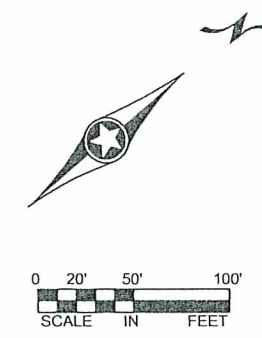
NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.

SIGNING NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN

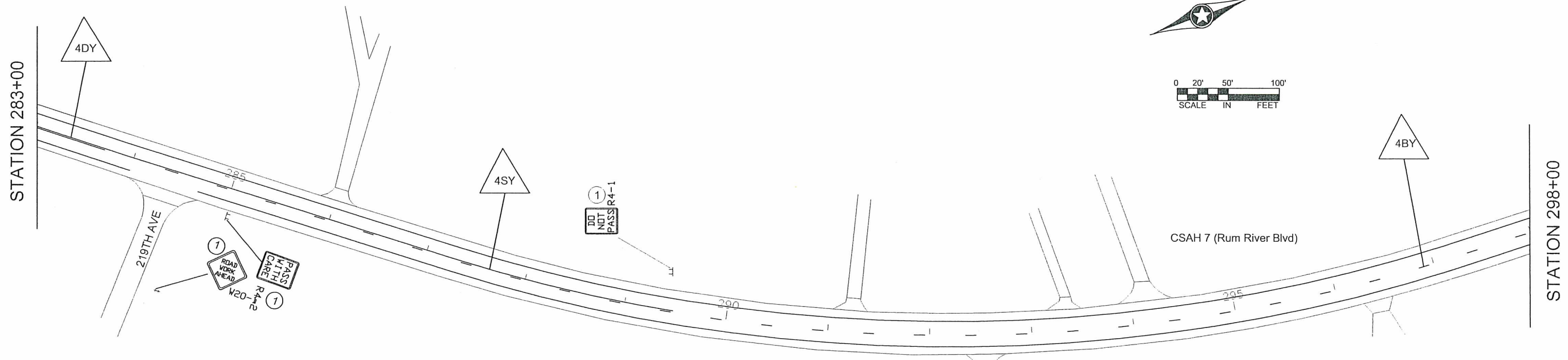
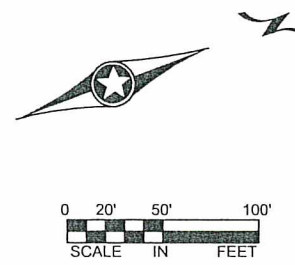
STATION 268+00

STATION 283+00



STATION 283+00

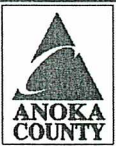
STATION 298+00



NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE: 04/18/13
 DESIGN BY: MTH DATE: 04/18/13
 CHECKED BY: RB DATE: 05/23/13



ANOKA COUNTY
 HIGHWAY DEPT.

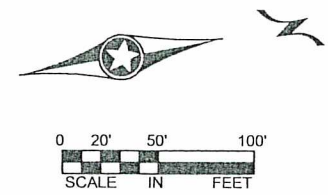
SP 002-607-022

TEMPORARY SIGNING &
 STRIPING PLAN

Sheet 37 of 57 Sheets

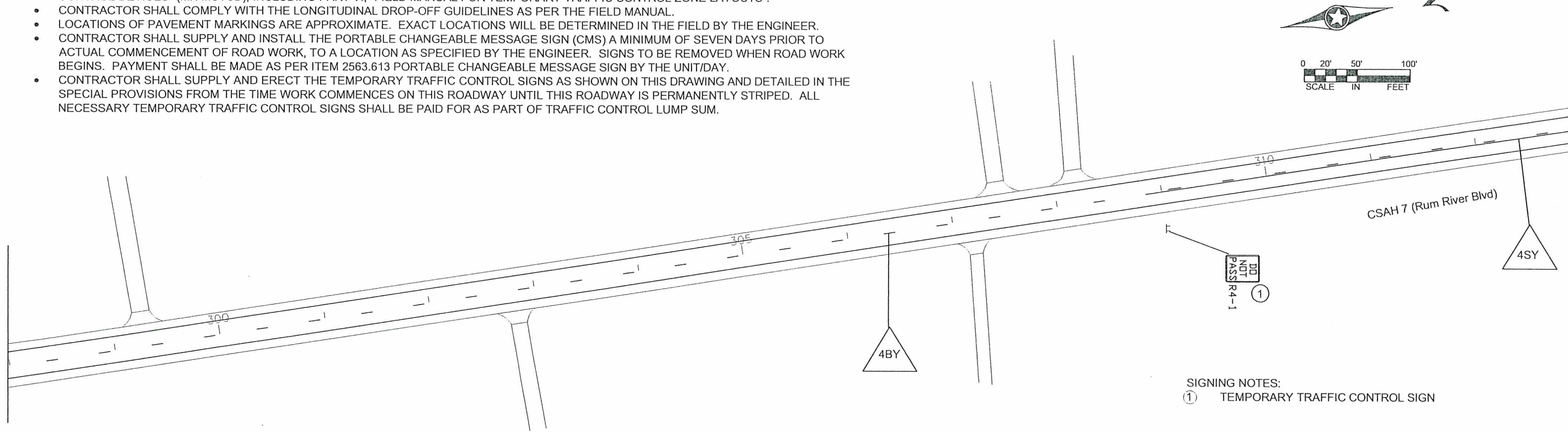
NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.

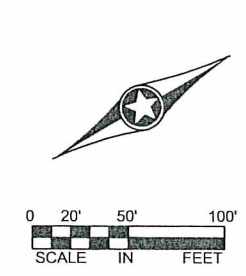


STATION 298+00

STATION 313+00

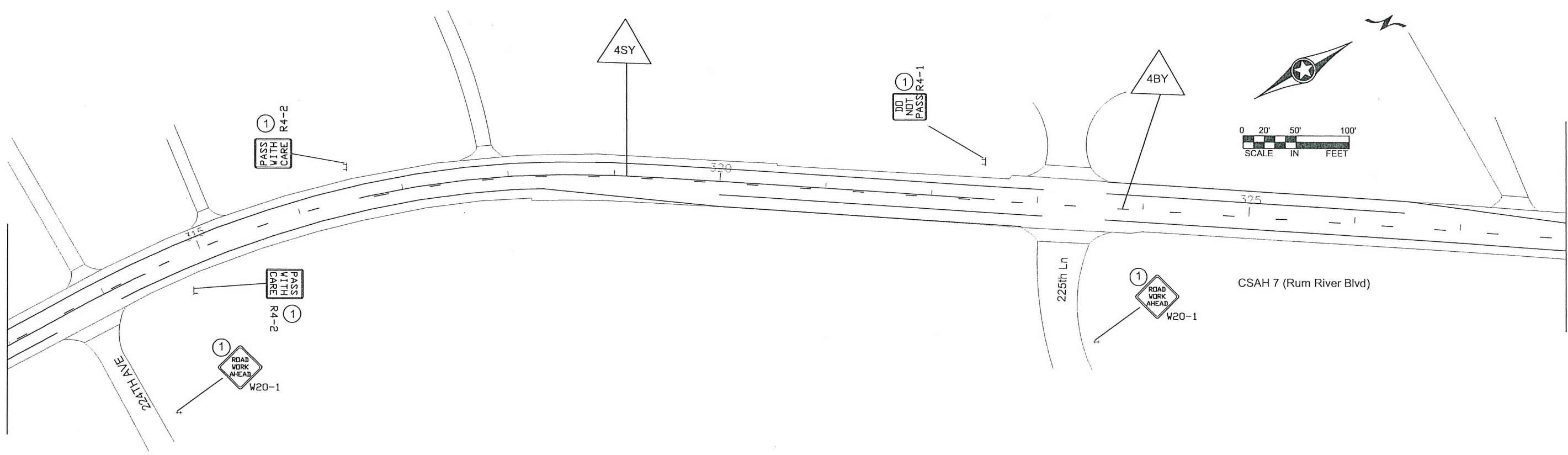


SIGNING NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN



STATION 313+00

STATION 328+00



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Temporary Signing_Striping.dwg

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/17/13 LICENSE NO. 42757

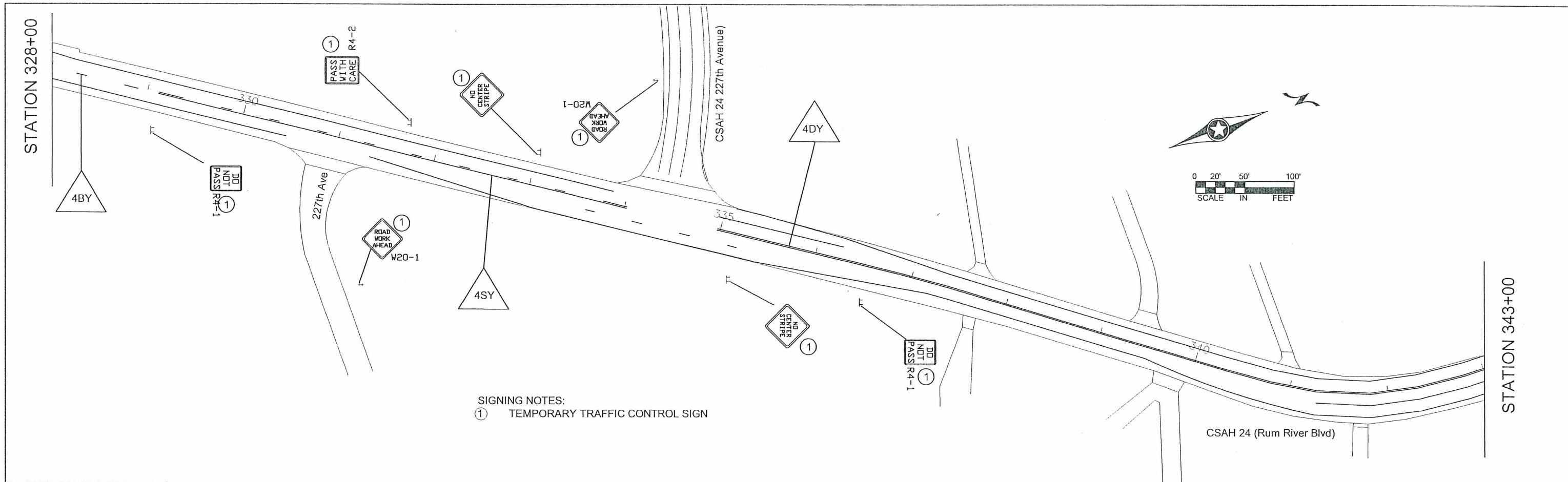
DRAWN BY: MTH DATE: 04/18/13
 DESIGN BY: MTH DATE: 04/18/13
 CHECKED BY: RB DATE: 05/23/13



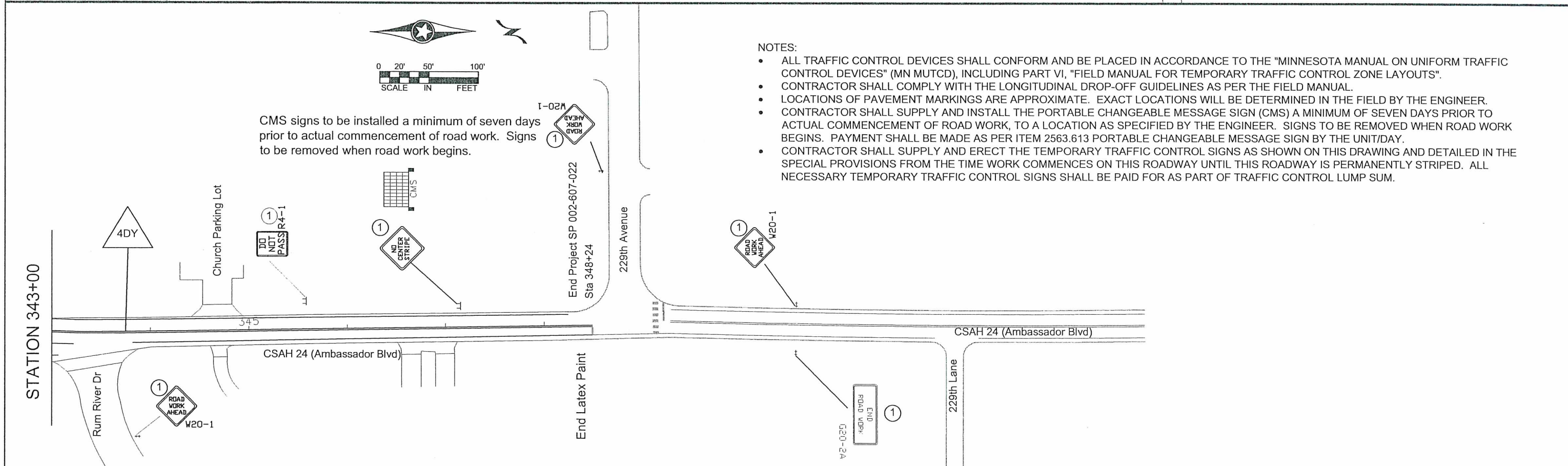
ANOKA COUNTY
 HIGHWAY DEPT.

SP 002-607-022

TEMPORARY SIGNING &
 STRIPING PLAN
 Sheet 38 of 57 Sheets



SIGNING NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN



CMS signs to be installed a minimum of seven days prior to actual commencement of road work. Signs to be removed when road work begins.

- NOTES:
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
 - CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
 - LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
 - CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.

NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Temporary Signing_Striping.dwg

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*

DATE: 5/1/13 LICENSE NO. 42757

DRAWN BY: MTH DATE: 04/18/13

DESIGN BY: MTH DATE: 04/18/13











CHECKED BY: RB DATE: 05/23/13

ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

TEMPORARY SIGNING & STRIPING PLAN

Sheet 39 of 57 Sheets

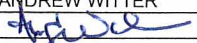
TEMPORARY TRAFFIC CONTROL SIGNS						
M.U.T.C.D. CODE	SIZE	PANEL AREA FT. ²	INSERT	QUANTITY	No. POST	MOUNTING HEIGHT TO PAVERMENT EDGE FT.
W8-12	48" x 48"	16.00		6	2	7.0'
R4-1	24" x 30"	5.00	 R4-1	19	1	7.0'
R4-2	24" x 30"	5.00	 R4-2	15	1	7.0'
W8-1A	48" x 48"	16.00	 W8-1A	AS NEEDED		
W8-1A	48" x 48"	16.00	 W8-1A	AS NEEDED		
W8-8	48" x 48"	16.00	 W8-8	AS NEEDED		
W8-11	48" x 48"	16.00	 W8-11	AS NEEDED		
W20-1	48" x 48"	16.00	 W20-1	29	2	1.0'
CMS signs to be installed a minimum of seven days prior to actual commencement of road work. Signs to be removed when road work begins.					4	
G20-2A	48" x 24"	8.00		2	2	7.0'

TEMPORARY PAVEMENT MARKING TABULATION		
ITEM	Quantity	Units
4" Solid Line Yellow - Paint	7700	Lin Ft
4" Broken Line Yellow - Paint (10 ft stripe / 40 ft gap)	3960	Lin Ft
4" Double Solid Line Yellow - Paint	1200	Lin Ft

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: 
 DATE: 4/13/13 LICENSE NO. 42757

DRAWN BY: MTH DATE 04/18/13
 DESIGN BY: MTH DATE 04/18/13
 CHECKED BY: RB DATE 05/23/13

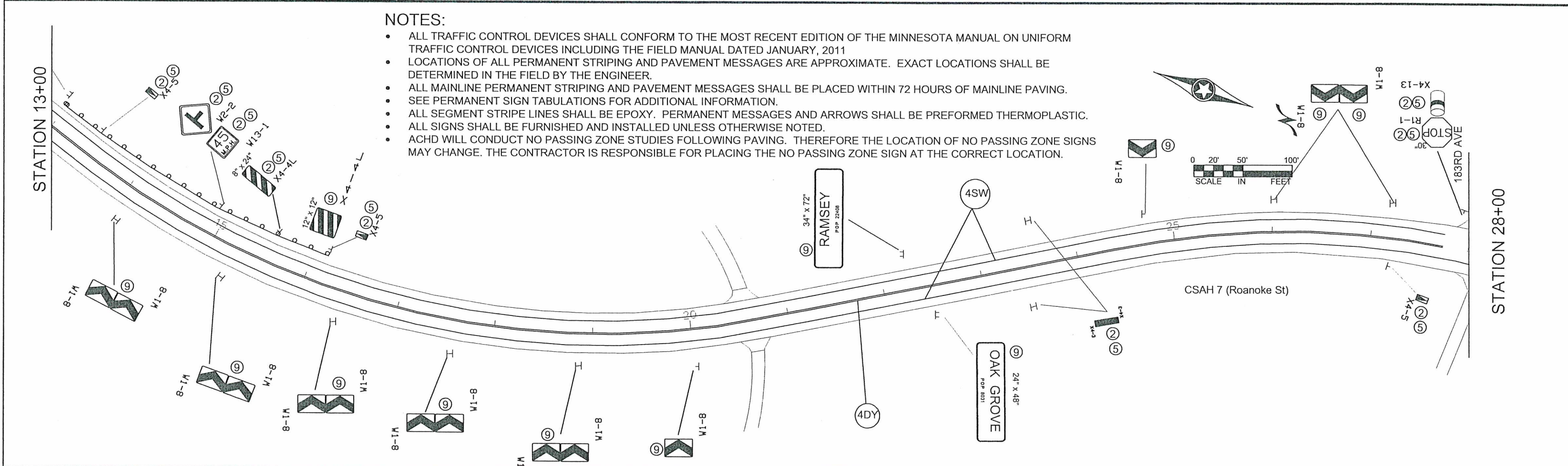
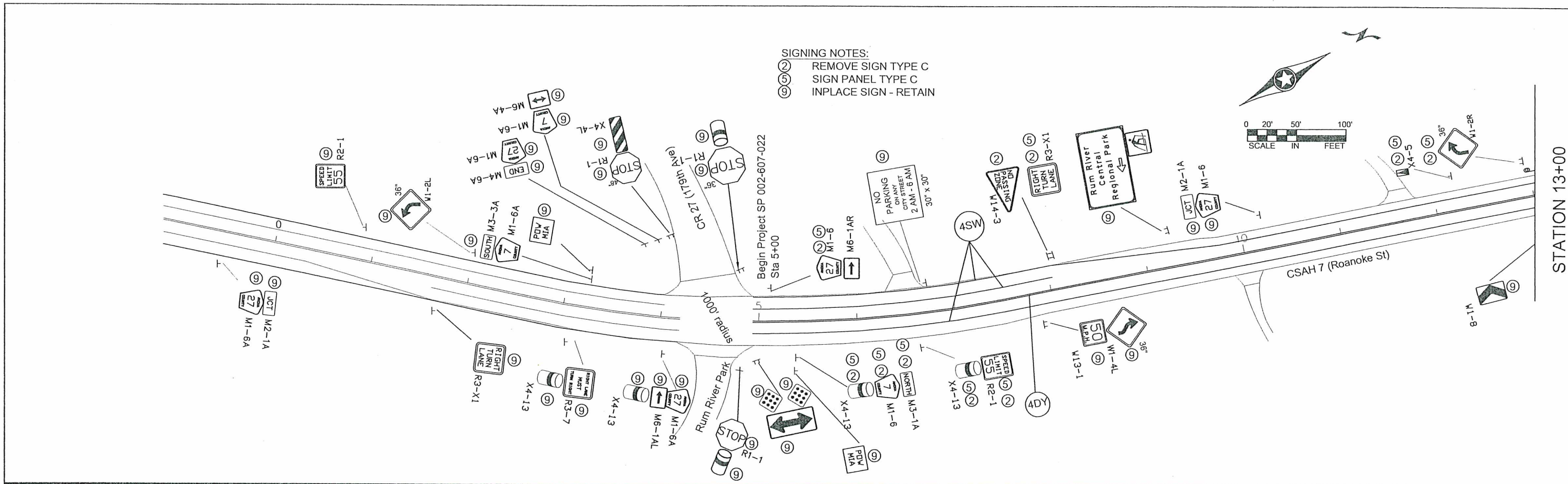


ANOKA COUNTY
 HIGHWAY DEPT.

SP 002-607-022

TEMPORARY SIGNING &
 STRIPING PLAN

Sheet 40 of 57 Sheets



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Permanent Signing.dwg

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

PRINT NAME: ANDREW WITTER

SIGNATURE: [Signature]

DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE 05/21/13

DESIGN BY: MTH DATE 05/21/13

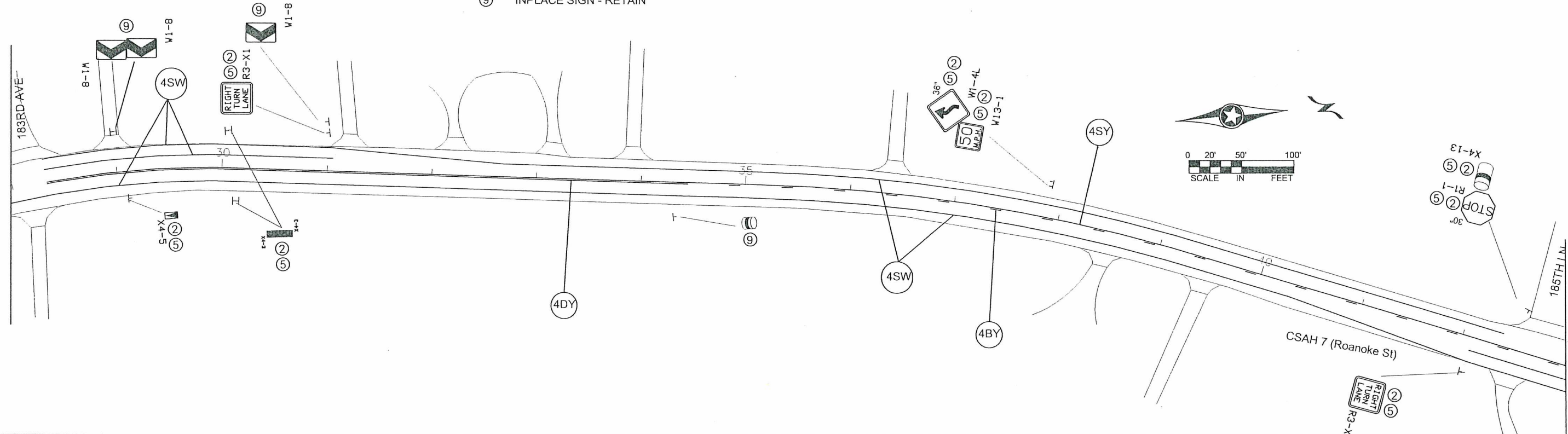
CHECKED BY: RB DATE 05/23/13

ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

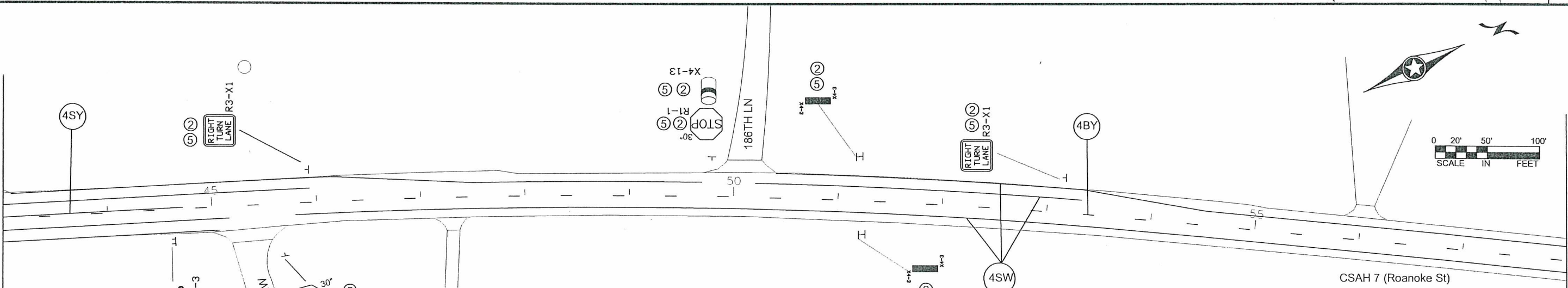
- SIGNING NOTES:
 (2) REMOVE SIGN TYPE C
 (5) SIGN PANEL TYPE C
 (9) INPLACE SIGN - RETAIN

STATION 28+00



STATION 43+00

STATION 43+00



STATION 58+00

NOTES:


- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2011
- LOCATIONS OF ALL PERMANENT STRIPING AND PAVEMENT MESSAGES ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL MAINLINE PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- SEE PERMANENT SIGN TABULATIONS FOR ADDITIONAL INFORMATION.
- ALL SEGMENT STRIPE LINES SHALL BE EPOXY. PERMANENT MESSAGES AND ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- ALL SIGNS SHALL BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- ACHD WILL CONDUCT NO PASSING ZONE STUDIES FOLLOWING PAVING. THEREFORE THE LOCATION OF NO PASSING ZONE SIGNS MAY CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE NO PASSING ZONE SIGN AT THE CORRECT LOCATION.

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE 05/21/13
 DESIGN BY: MTH DATE 05/21/13
 CHECKED BY: RB DATE 05/23/13

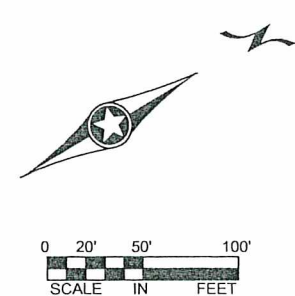
ANOKA COUNTY
 HIGHWAY DEPT.



SP 002-607-022

PERMANENT SIGNING & STRIPING PLAN
 Sheet 42 of 57 Sheets

- SIGNING NOTES:
- ② REMOVE SIGN TYPE C
 - ⑤ SIGN PANEL TYPE C
 - ⑨ INPLACE SIGN - RETAIN



STATION 58+00

STATION 73+00

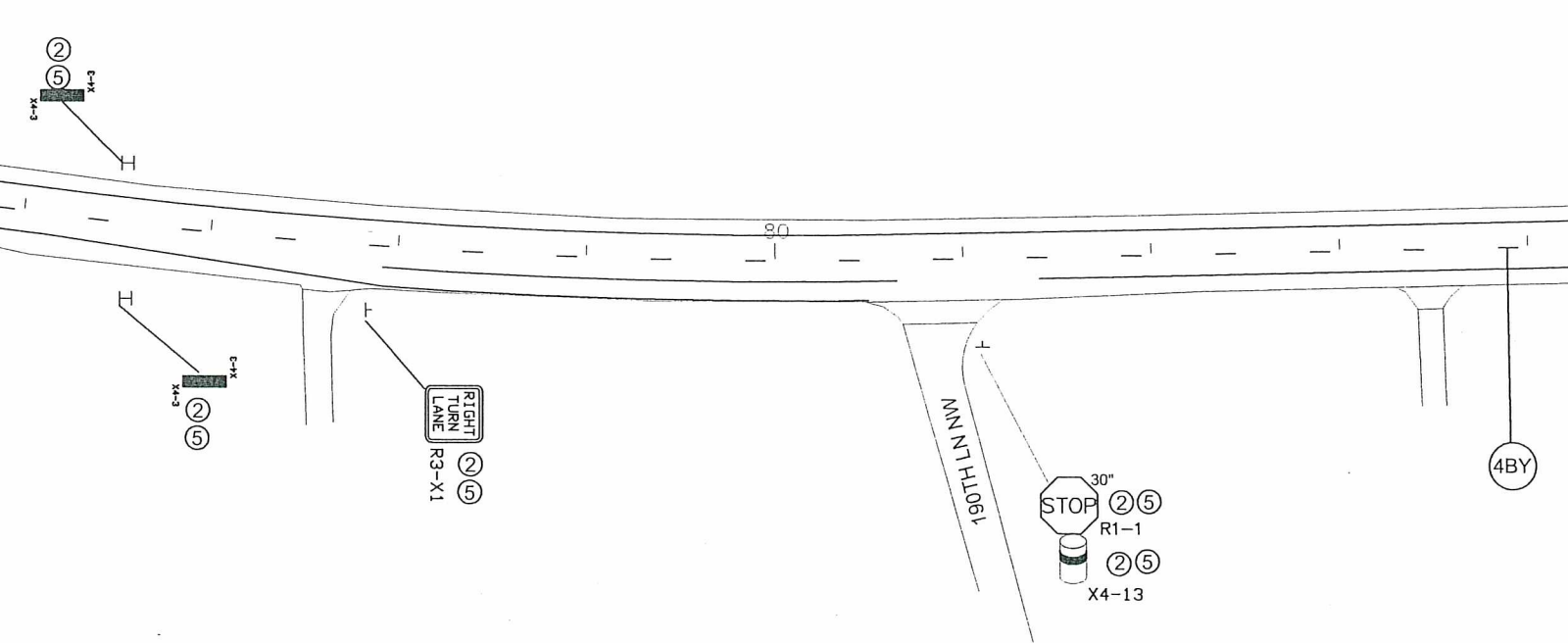
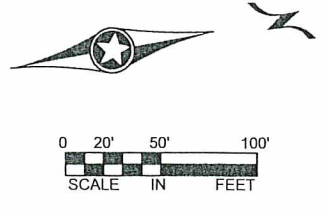
NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2011
- LOCATIONS OF ALL PERMANENT STRIPING AND PAVEMENT MESSAGES ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL MAINLINE PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- SEE PERMANENT SIGN TABULATIONS FOR ADDITIONAL INFORMATION.
- ALL SEGMENT STRIPE LINES SHALL BE EPOXY. PERMANENT MESSAGES AND ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- ALL SIGNS SHALL BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- ACHD WILL CONDUCT NO PASSING ZONE STUDIES FOLLOWING PAVING. THEREFORE THE LOCATION OF NO PASSING ZONE SIGNS MAY CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE NO PASSING ZONE SIGN AT THE CORRECT LOCATION.



STATION 73+00

STATION 88+00



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Permanent Signing.dwg

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *[Signature]*

DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE: 05/21/13

DESIGN BY: MTH DATE: 05/21/13

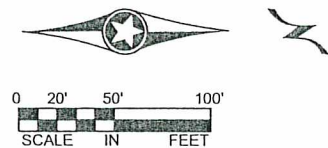
CHECKED BY: RB DATE: 05/23/13

SP 002-607-022

PERMANENT SIGNING & STRIPING PLAN

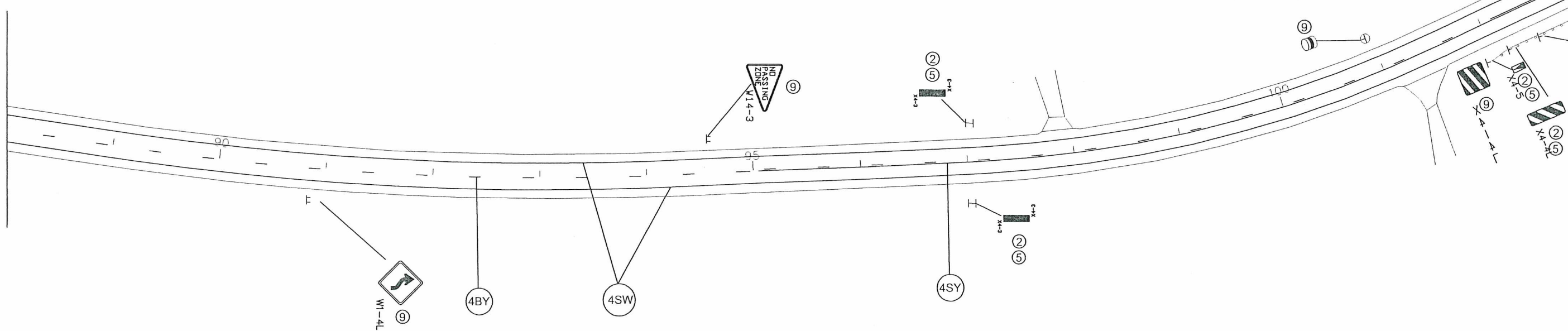
Sheet 43 of 57 Sheets

SIGNING NOTES:
 (2) REMOVE SIGN TYPE C
 (5) SIGN PANEL TYPE C
 (9) INPLACE SIGN - RETAIN



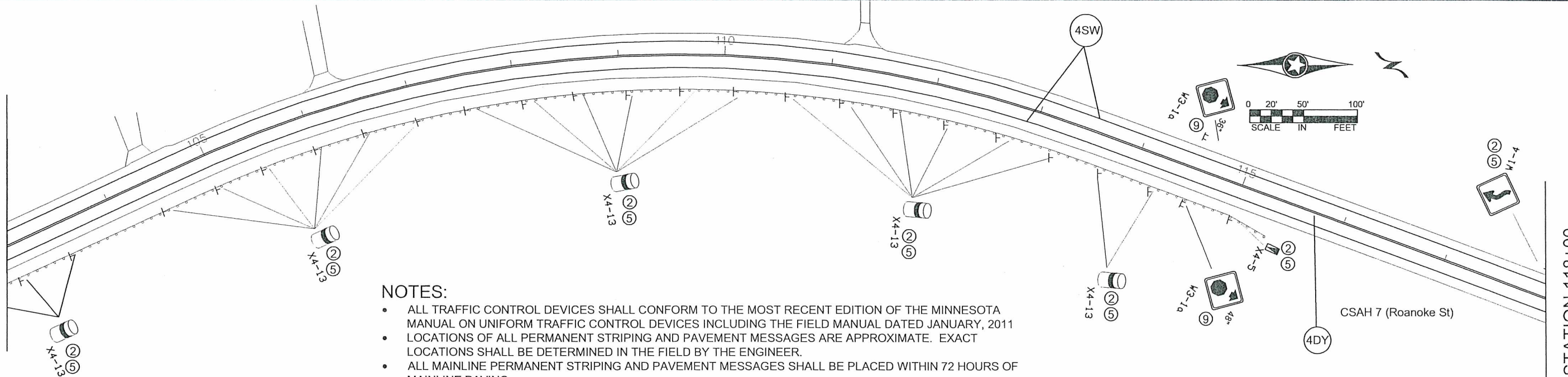
STATION 88+00

STATION 103+00



STATION 103+00

STATION 118+00



NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2011
- LOCATIONS OF ALL PERMANENT STRIPING AND PAVEMENT MESSAGES ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL MAINLINE PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- SEE PERMANENT SIGN TABULATIONS FOR ADDITIONAL INFORMATION.
- ALL SEGMENT STRIPE LINES SHALL BE EPOXY. PERMANENT MESSAGES AND ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- ALL SIGNS SHALL BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- ACHD WILL CONDUCT NO PASSING ZONE STUDIES FOLLOWING PAVING. THEREFORE THE LOCATION OF NO PASSING ZONE SIGNS MAY CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE NO PASSING ZONE SIGN AT THE CORRECT LOCATION.

NO	DATE	BY	CKD	APPR	REVISION
NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Permanent Signing.dwg					

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE: 05/21/13
 DESIGN BY: MTH DATE: 05/21/13
 CHECKED BY: RB DATE: 05/23/13

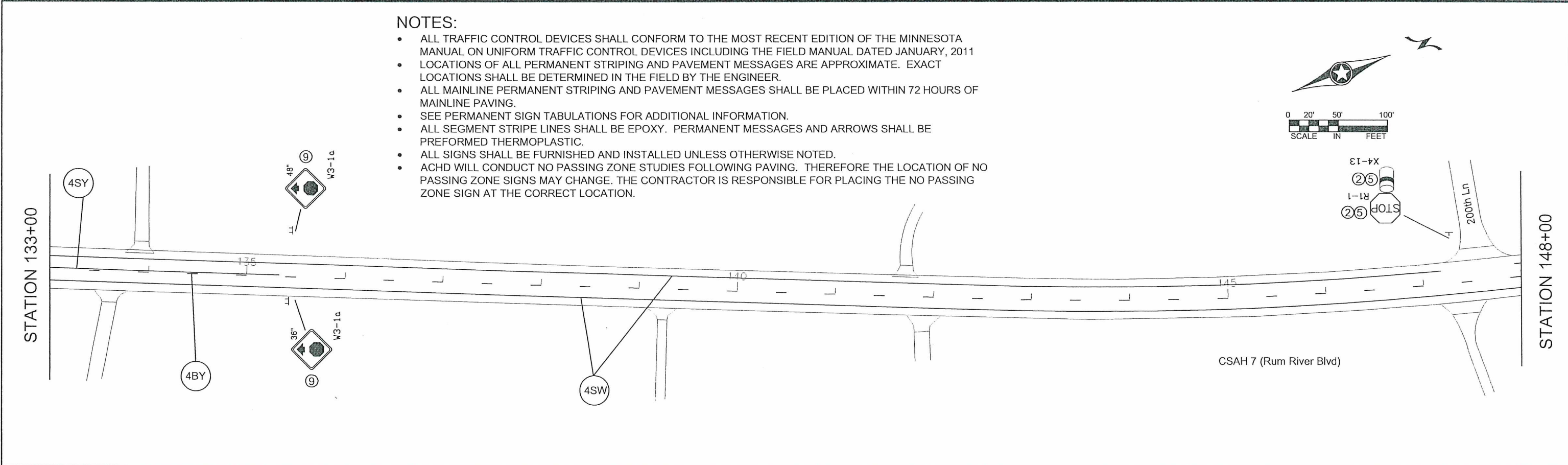
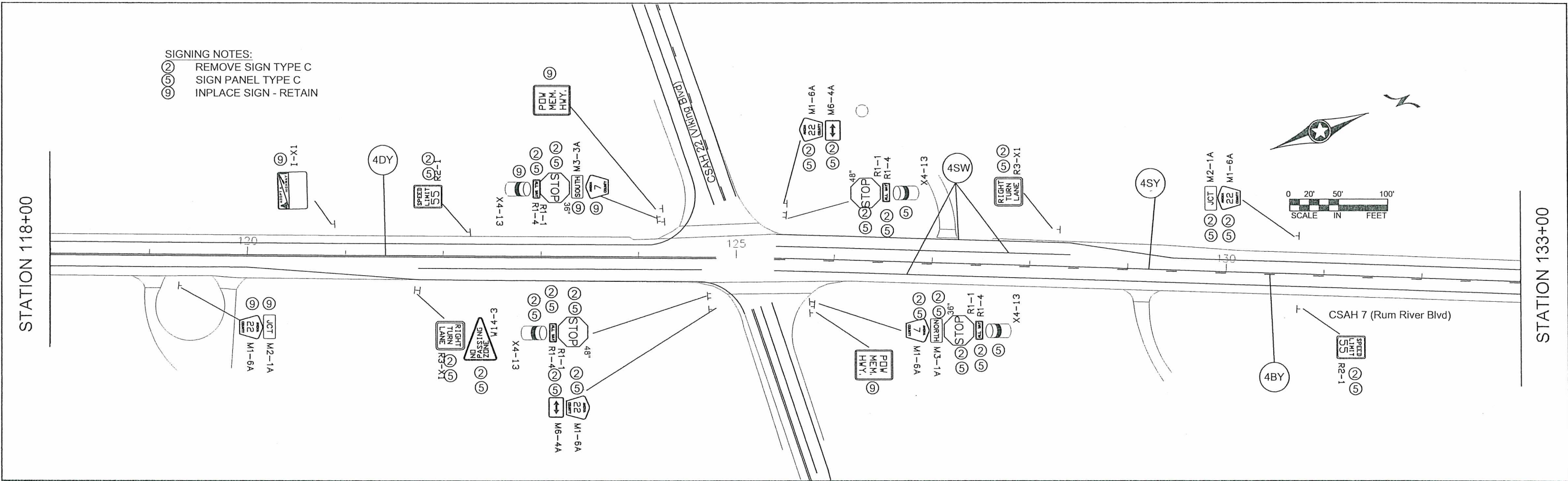


ANOKA COUNTY
 HIGHWAY DEPT.

SP 002-607-022

PERMANENT SIGNING &
 STRIPING PLAN

Sheet 44 of 57 Sheets



NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2011
- LOCATIONS OF ALL PERMANENT STRIPING AND PAVEMENT MESSAGES ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL MAINLINE PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- SEE PERMANENT SIGN TABULATIONS FOR ADDITIONAL INFORMATION.
- ALL SEGMENT STRIPE LINES SHALL BE EPOXY. PERMANENT MESSAGES AND ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- ALL SIGNS SHALL BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- ACHD WILL CONDUCT NO PASSING ZONE STUDIES FOLLOWING PAVING. THEREFORE THE LOCATION OF NO PASSING ZONE SIGNS MAY CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE NO PASSING ZONE SIGN AT THE CORRECT LOCATION.

NO	DATE	BY	CKD	APPR	REVISION

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *[Signature]*

DATE: 5/17/13 LICENSE NO. 42757

ANOKA COUNTY HIGHWAY DEPT.

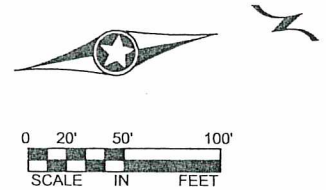
DRAWN BY: MTH DATE: 05/21/13

DESIGN BY: MTH DATE: 05/21/13

CHECKED BY: RB DATE: 05/23/13

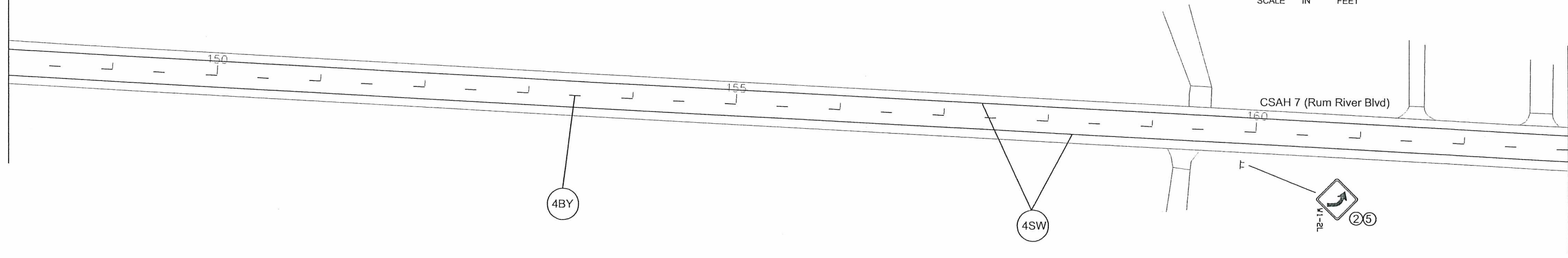
SP 002-607-022

- SIGNING NOTES:
- ② REMOVE SIGN TYPE C
 - ⑤ SIGN PANEL TYPE C
 - ⑨ INPLACE SIGN - RETAIN



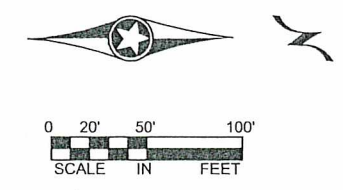
STATION 148+00

STATION 163+00



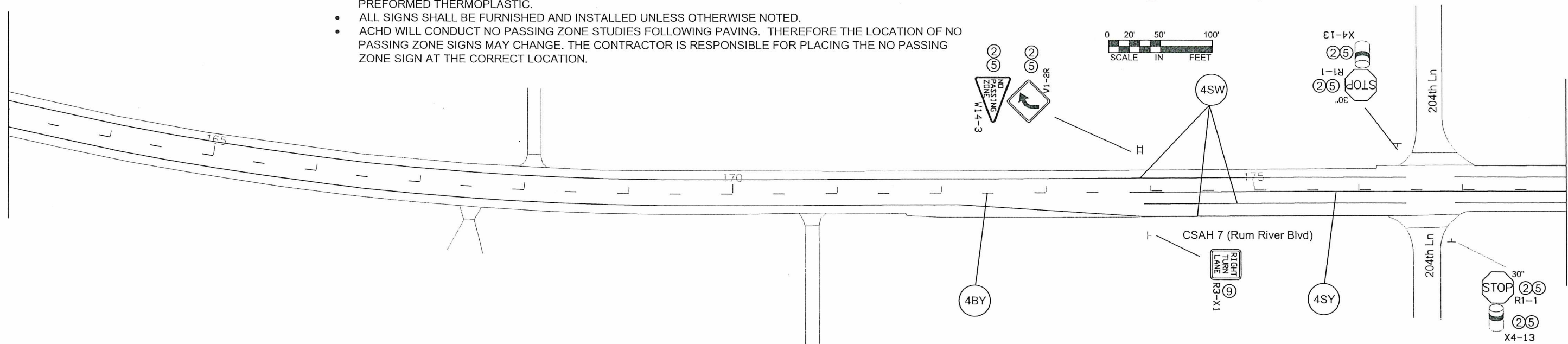
NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2011
- LOCATIONS OF ALL PERMANENT STRIPING AND PAVEMENT MESSAGES ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL MAINLINE PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- SEE PERMANENT SIGN TABULATIONS FOR ADDITIONAL INFORMATION.
- ALL SEGMENT STRIPE LINES SHALL BE EPOXY. PERMANENT MESSAGES AND ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- ALL SIGNS SHALL BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- ACHD WILL CONDUCT NO PASSING ZONE STUDIES FOLLOWING PAVING. THEREFORE THE LOCATION OF NO PASSING ZONE SIGNS MAY CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE NO PASSING ZONE SIGN AT THE CORRECT LOCATION.



STATION 163+00

STATION 178+00



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Permanent Signing.dwg

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

PRINT NAME: ANDREW WITTER

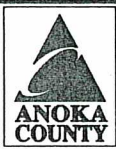
SIGNATURE: *Andrew Witter*

DATE: 6/13/13 LICENSE NO. 42757

DRAWN BY: MTH DATE 05/21/13

DESIGN BY: MTH DATE 05/21/13

CHECKED BY: RB DATE 05/23/13



ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

PERMANENT SIGNING & STRIPING PLAN

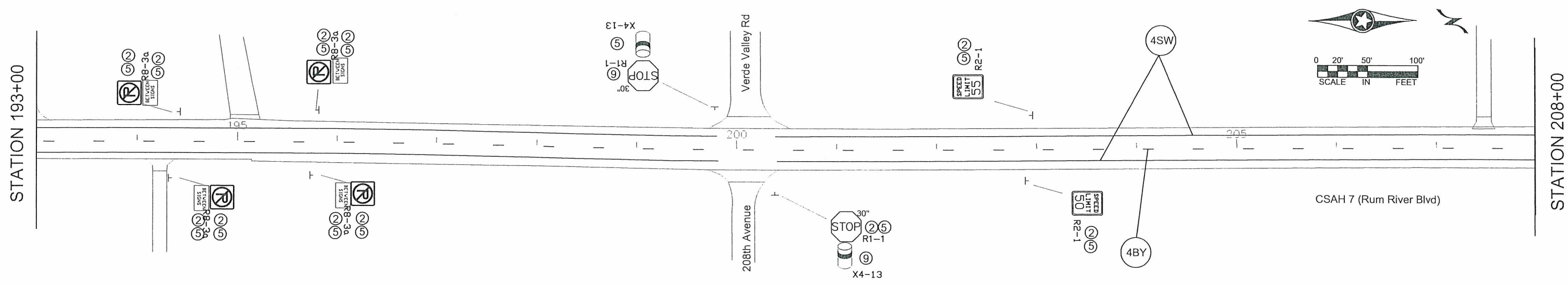
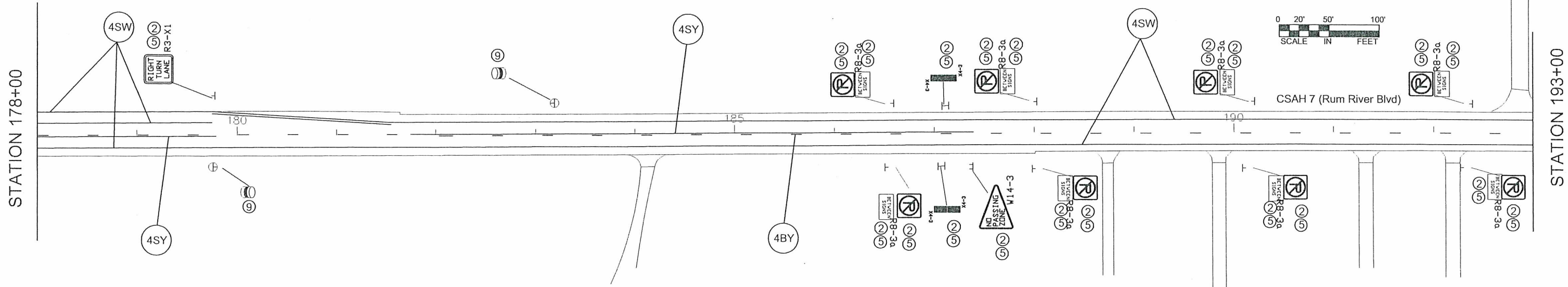
Sheet 46 of 57 Sheets

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2011
- LOCATIONS OF ALL PERMANENT STRIPING AND PAVEMENT MESSAGES ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL MAINLINE PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- SEE PERMANENT SIGN TABULATIONS FOR ADDITIONAL INFORMATION.
- ALL SEGMENT STRIPE LINES SHALL BE EPOXY. PERMANENT MESSAGES AND ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- ALL SIGNS SHALL BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- ACHD WILL CONDUCT NO PASSING ZONE STUDIES FOLLOWING PAVING. THEREFORE THE LOCATION OF NO PASSING ZONE SIGNS MAY CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE NO PASSING ZONE SIGN AT THE CORRECT LOCATION.

SIGNING NOTES:

- ② REMOVE SIGN TYPE C
- ⑤ SIGN PANEL TYPE C
- ⑨ INPLACE SIGN - RETAIN



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Permanent Signing.dwg

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *[Signature]*

DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE 05/21/13

DESIGN BY: MTH DATE 05/21/13

CHECKED BY: RB DATE 05/23/13



ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

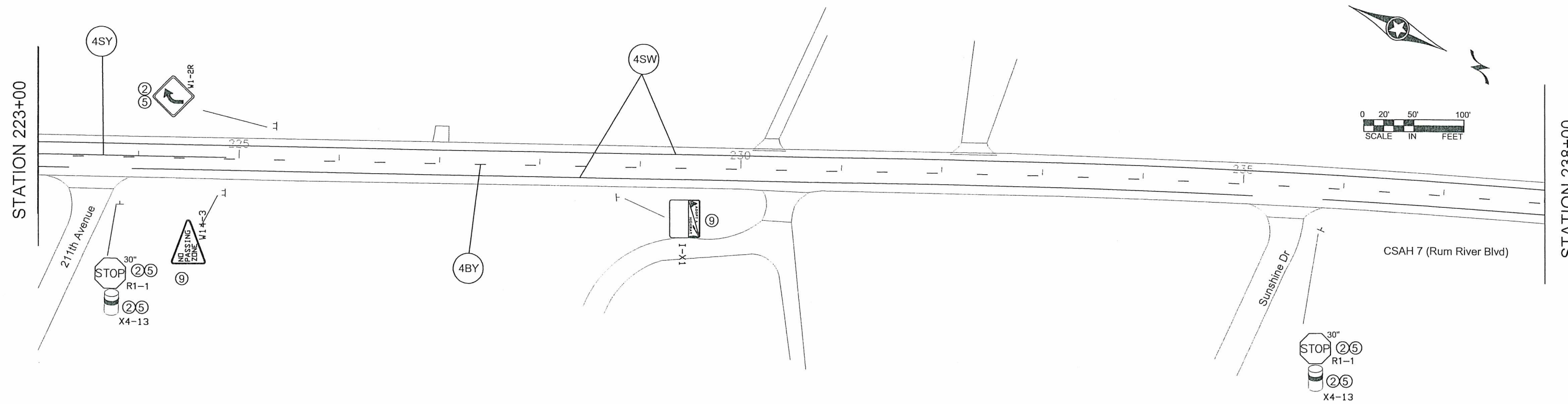
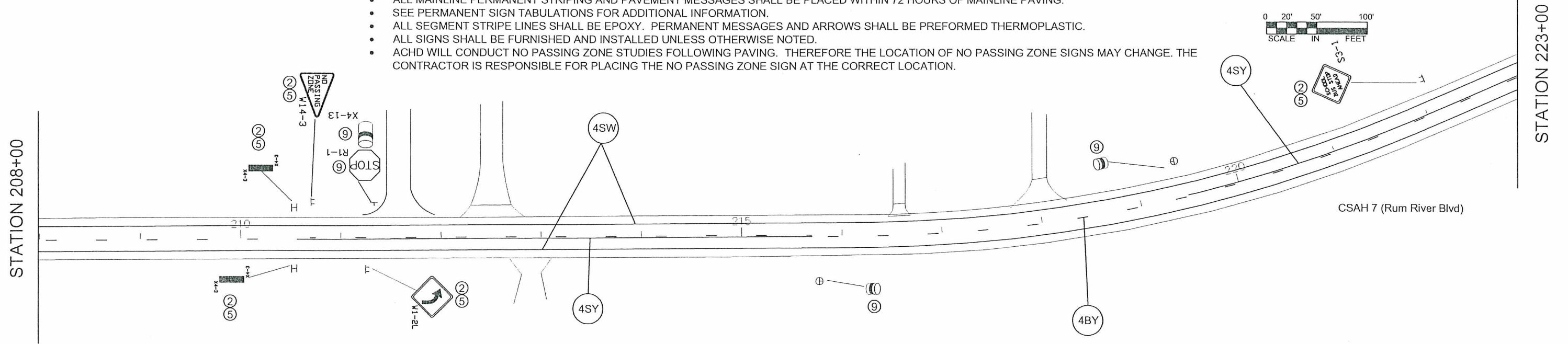
PERMANENT SIGNING & STRIPING PLAN

Sheet 47 of 57 Sheets

- SIGNING NOTES:
- ② REMOVE SIGN TYPE C
 - ⑤ SIGN PANEL TYPE C
 - ⑨ INPLACE SIGN - RETAIN

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2011
- LOCATIONS OF ALL PERMANENT STRIPING AND PAVEMENT MESSAGES ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL MAINLINE PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- SEE PERMANENT SIGN TABULATIONS FOR ADDITIONAL INFORMATION.
- ALL SEGMENT STRIPE LINES SHALL BE EPOXY. PERMANENT MESSAGES AND ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- ALL SIGNS SHALL BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- ACHD WILL CONDUCT NO PASSING ZONE STUDIES FOLLOWING PAVING. THEREFORE THE LOCATION OF NO PASSING ZONE SIGNS MAY CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE NO PASSING ZONE SIGN AT THE CORRECT LOCATION.



NO	DATE	BY	CKD	APPR	REVISION

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*


DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE 05/21/13

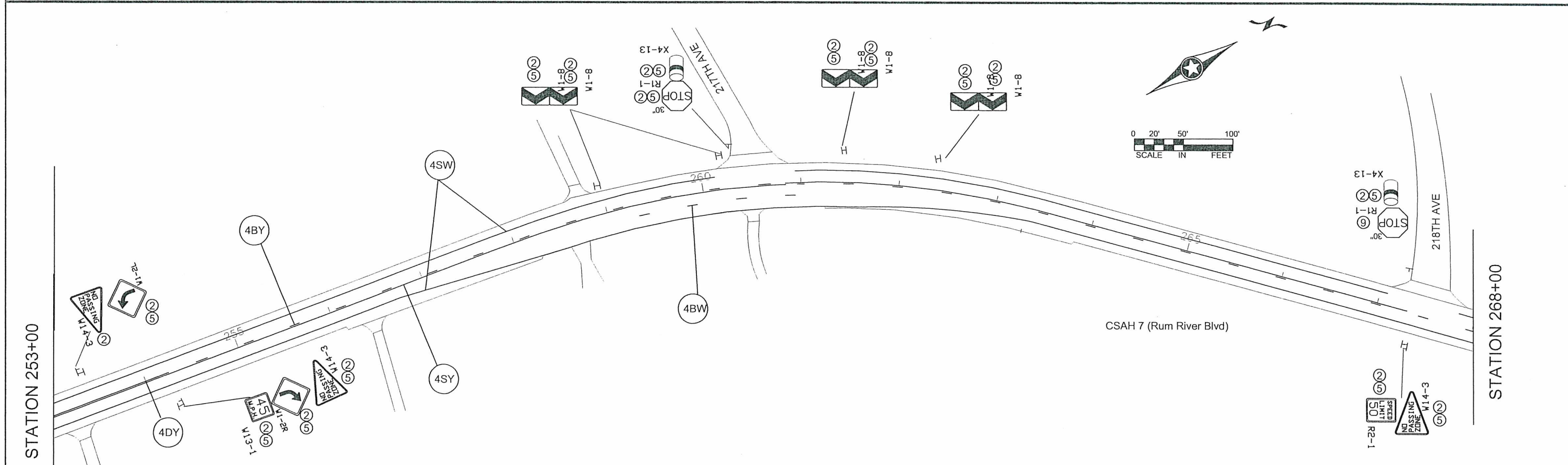
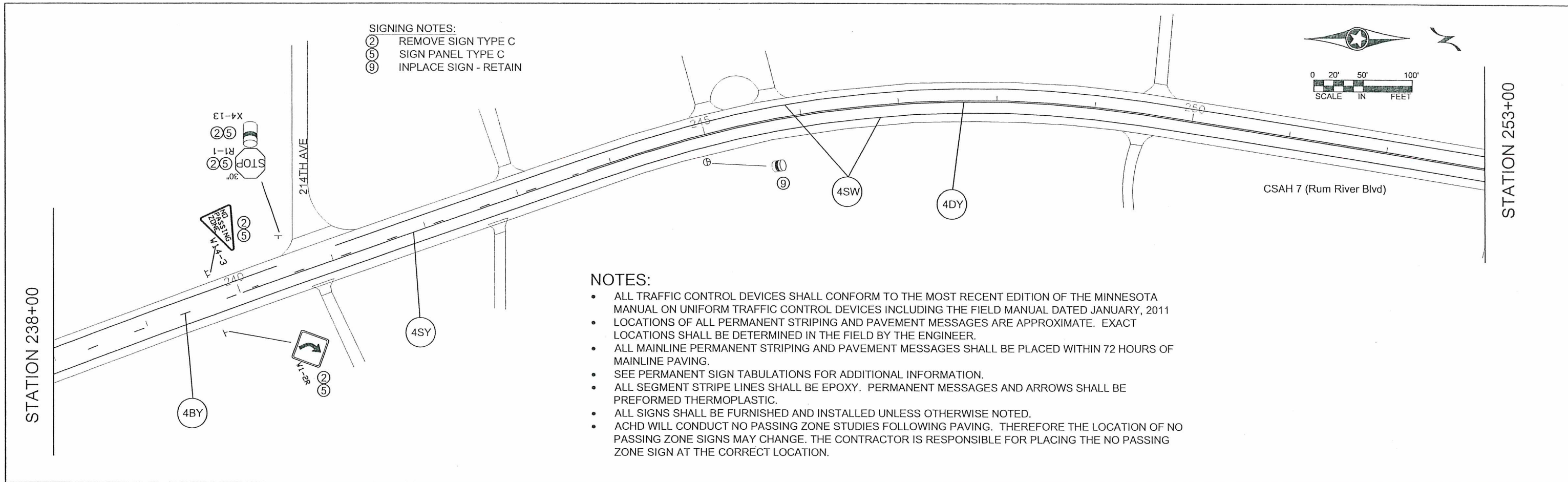
DESIGN BY: MTH DATE 05/21/13

CHECKED BY: RB DATE 05/23/13

ANOKA COUNTY
HIGHWAY DEPT.



SP 002-607-022



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Permanent Signing.dwg

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *[Signature]*


DATE: 6/7/13 LICENSE NO. 42757

DRAWN BY: MTH DATE 05/21/13

DESIGN BY: MTH DATE 05/21/13

CHECKED BY: RB DATE 05/23/13

ANOKA COUNTY
HIGHWAY DEPT.



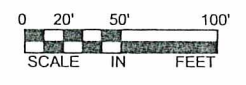
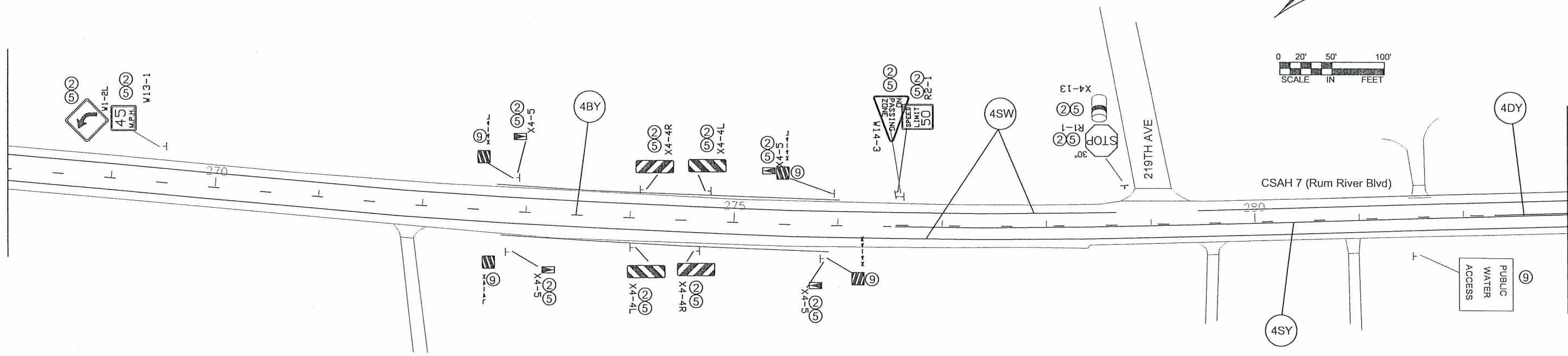
SP 002-607-022

PERMANENT SIGNING & STRIPING PLAN

Sheet 49 of 57 Sheets

SIGNING NOTES:
 (2) REMOVE SIGN TYPE C
 (5) SIGN PANEL TYPE C
 (9) INPLACE SIGN - RETAIN

STATION 268+00



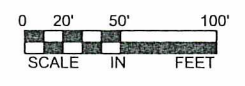
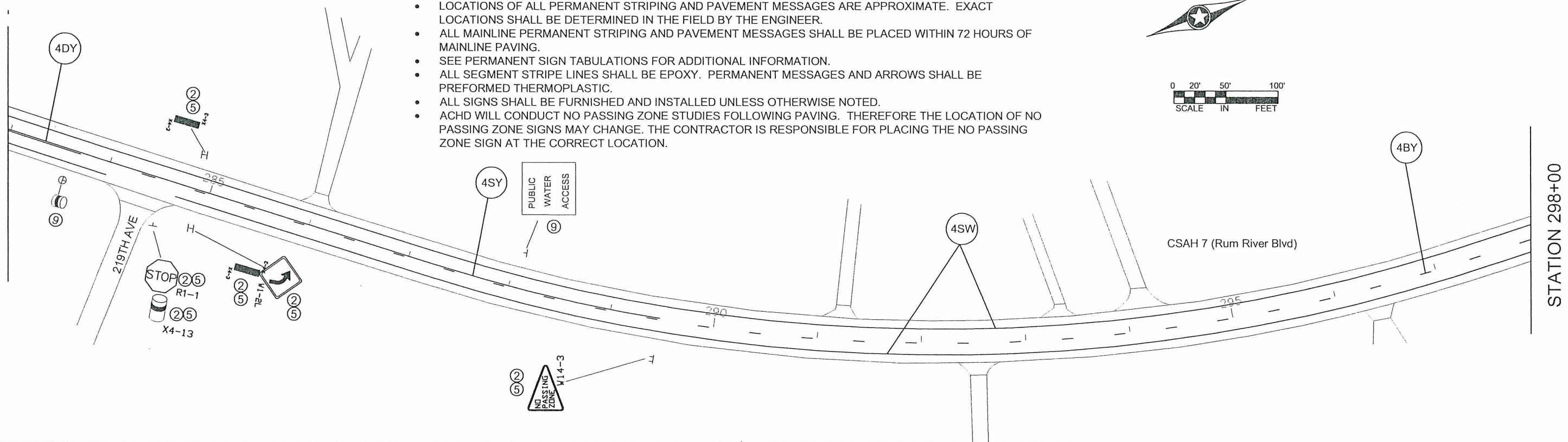
4SY

STATION 283+00

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2011
- LOCATIONS OF ALL PERMANENT STRIPING AND PAVEMENT MESSAGES ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL MAINLINE PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- SEE PERMANENT SIGN TABULATIONS FOR ADDITIONAL INFORMATION.
- ALL SEGMENT STRIPE LINES SHALL BE EPOXY. PERMANENT MESSAGES AND ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- ALL SIGNS SHALL BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- ACHD WILL CONDUCT NO PASSING ZONE STUDIES FOLLOWING PAVING. THEREFORE THE LOCATION OF NO PASSING ZONE SIGNS MAY CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE NO PASSING ZONE SIGN AT THE CORRECT LOCATION.

STATION 283+00



STATION 298+00

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 5/23/13 LICENSE NO. 42757

DRAWN BY MTH DATE 05/21/13
 DESIGN BY MTH DATE 05/21/13
 CHECKED BY RB DATE 05/23/13

ANOKA COUNTY
HIGHWAY DEPT.

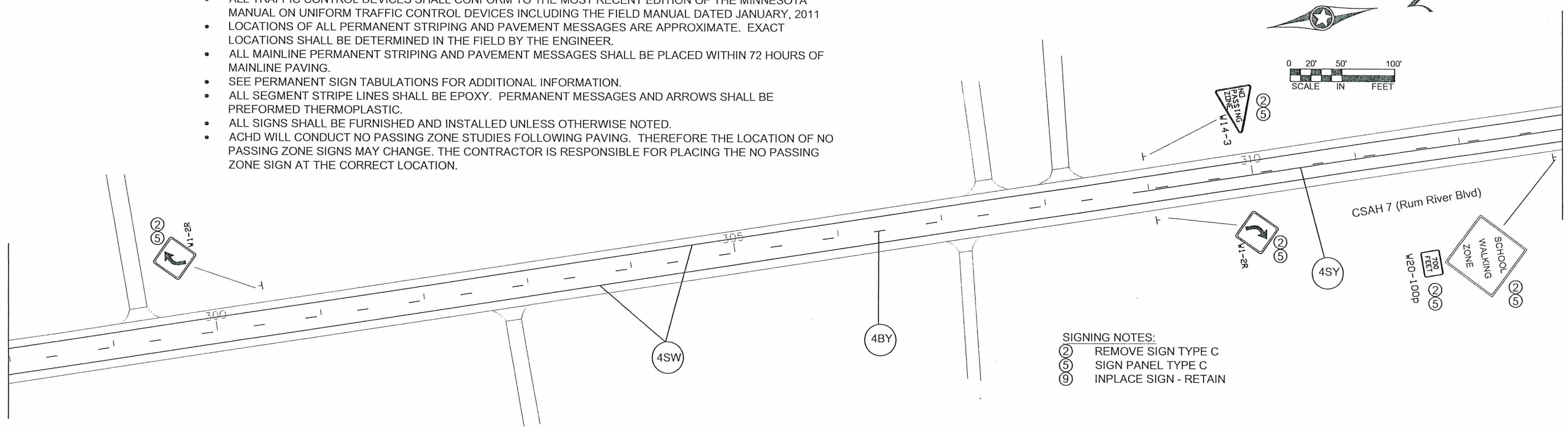
SP 002-607-022

PERMANENT SIGNING & STRIPING PLAN
 Sheet 50 of 57 Sheets

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2011
- LOCATIONS OF ALL PERMANENT STRIPING AND PAVEMENT MESSAGES ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL MAINLINE PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- SEE PERMANENT SIGN TABULATIONS FOR ADDITIONAL INFORMATION.
- ALL SEGMENT STRIPE LINES SHALL BE EPOXY. PERMANENT MESSAGES AND ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- ALL SIGNS SHALL BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- ACHD WILL CONDUCT NO PASSING ZONE STUDIES FOLLOWING PAVING. THEREFORE THE LOCATION OF NO PASSING ZONE SIGNS MAY CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE NO PASSING ZONE SIGN AT THE CORRECT LOCATION.

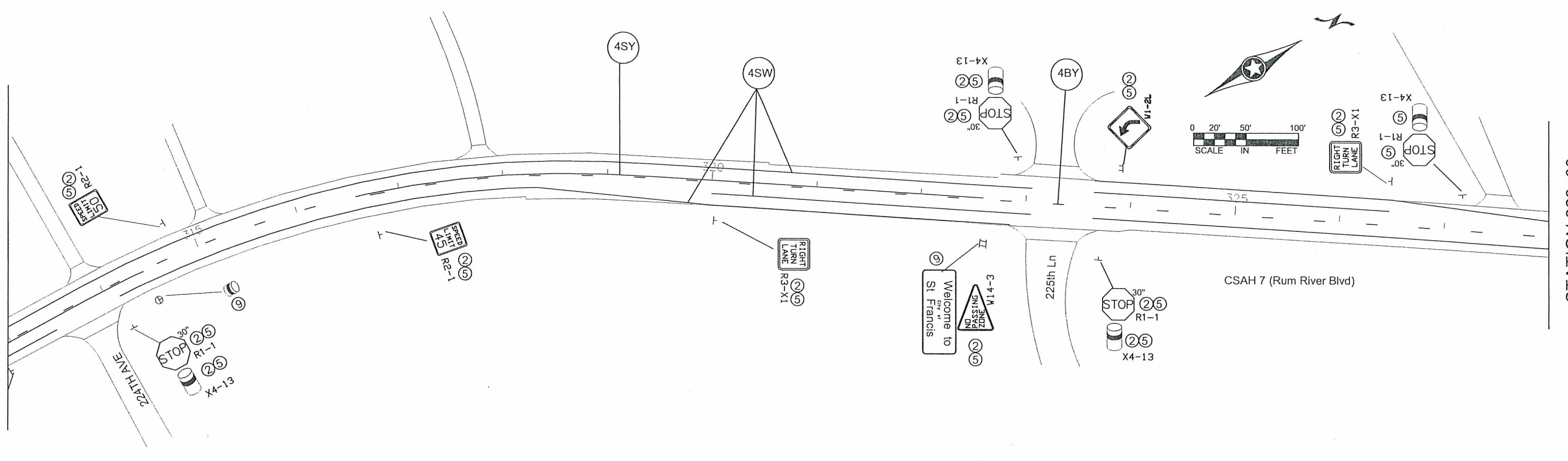
STATION 298+00



STATION 313+00

- SIGNING NOTES:**
- ② REMOVE SIGN TYPE C
 - ⑤ SIGN PANEL TYPE C
 - ⑨ INPLACE SIGN - RETAIN

STATION 313+00



STATION 328+00

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Permanent Signing.dwg

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

PRINT NAME: ANDREW WITTER

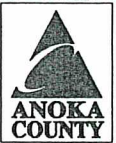
SIGNATURE: *Andrew Witter*

DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE 05/21/13

DESIGN BY: MTH DATE 05/21/13

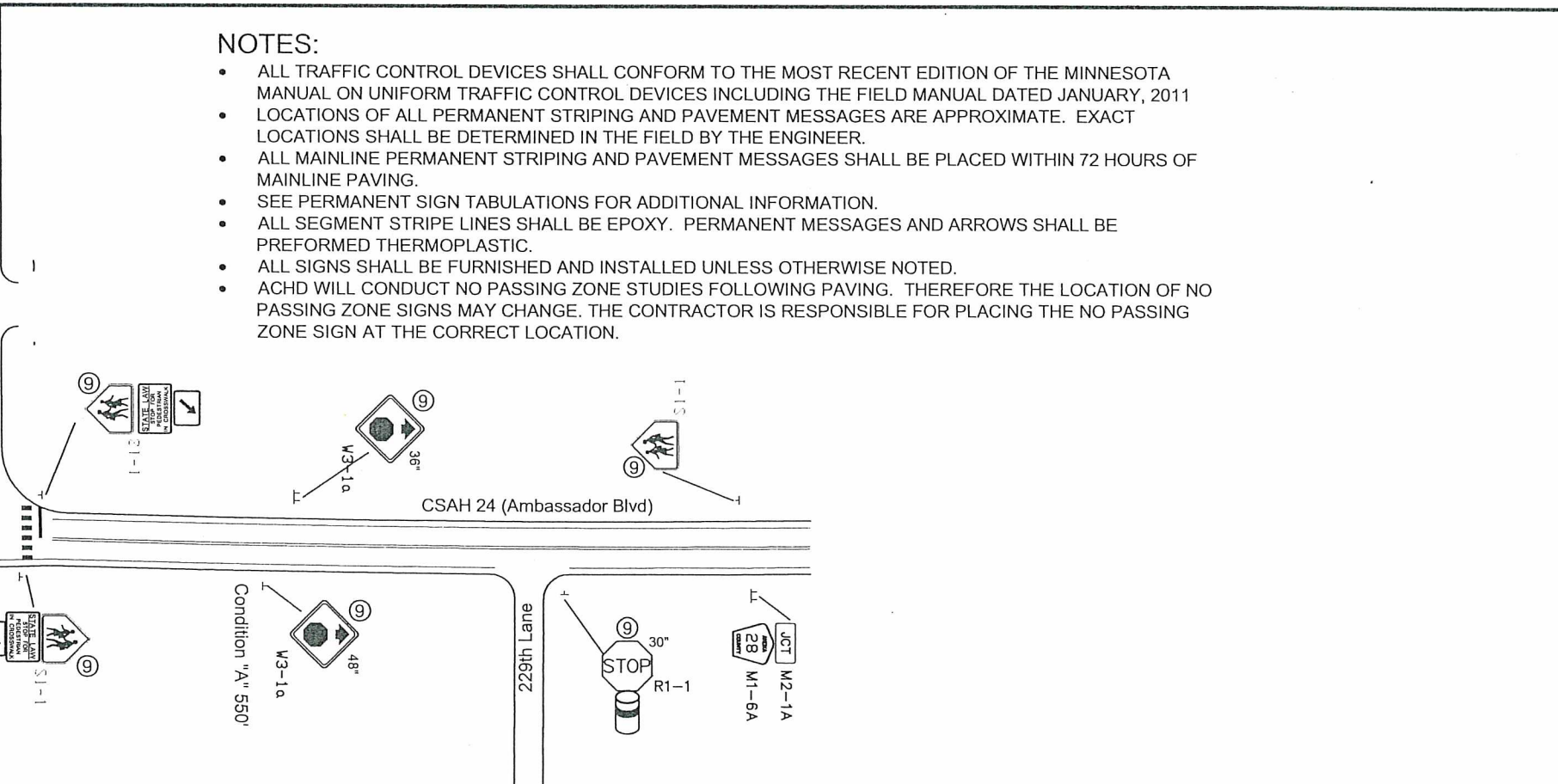
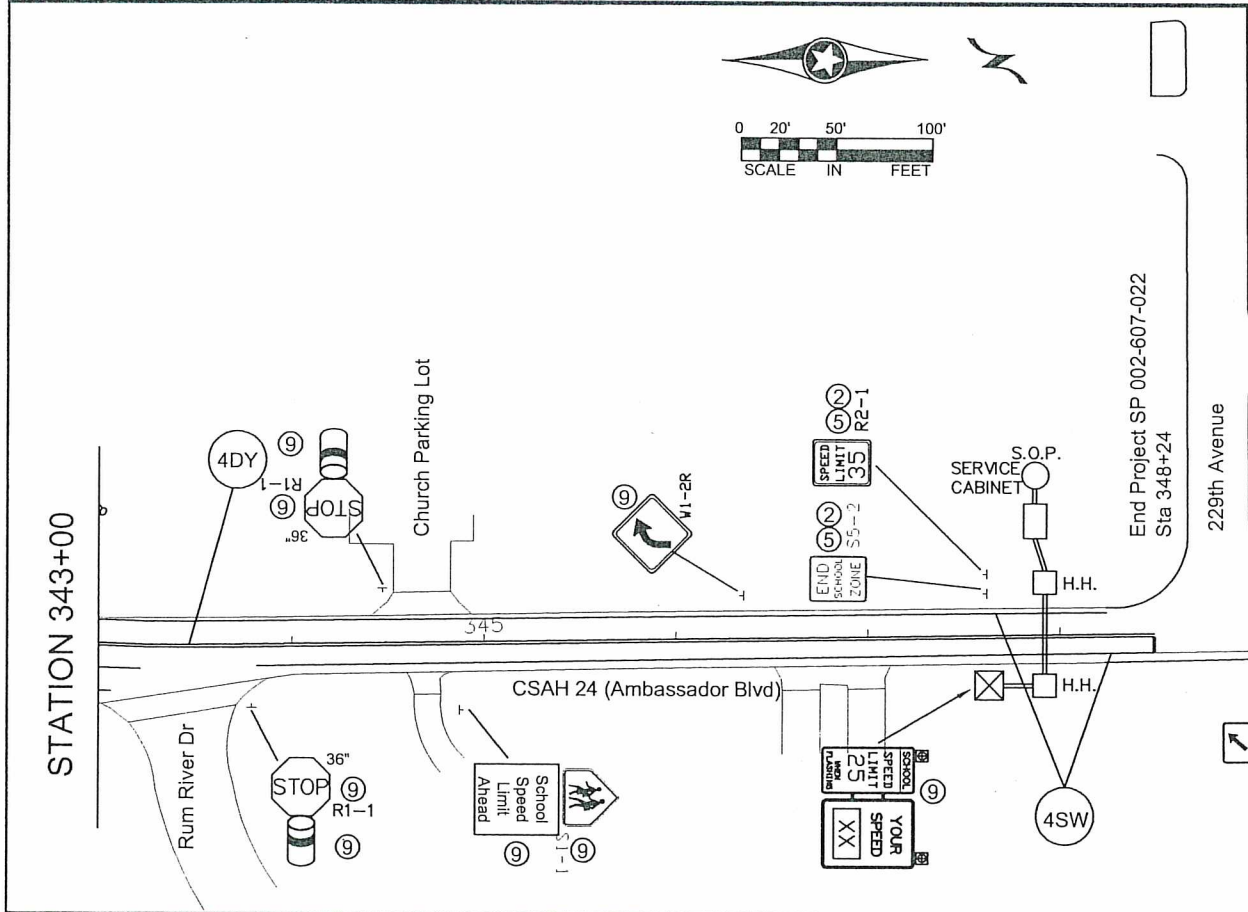
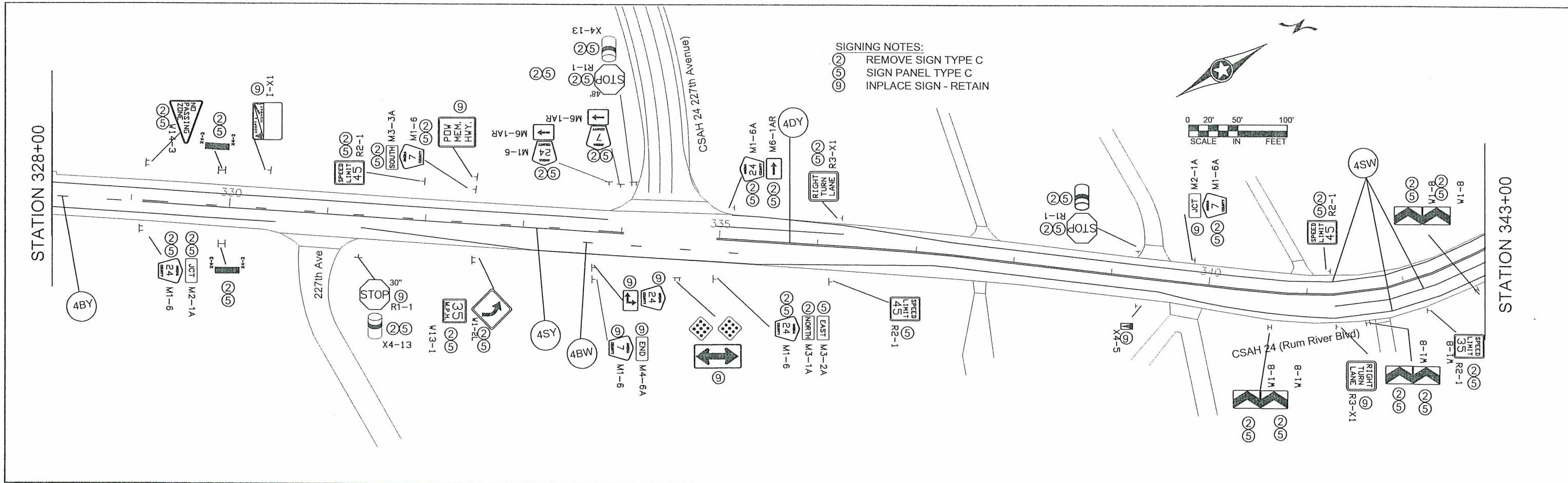
CHECKED BY: RB DATE 05/23/13



ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

PERMANENT SIGNING & STRIPING PLAN



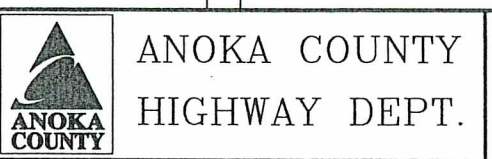
NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL DATED JANUARY, 2011
- LOCATIONS OF ALL PERMANENT STRIPING AND PAVEMENT MESSAGES ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL MAINLINE PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- SEE PERMANENT SIGN TABULATIONS FOR ADDITIONAL INFORMATION.
- ALL SEGMENT STRIPE LINES SHALL BE EPOXY. PERMANENT MESSAGES AND ARROWS SHALL BE PREFORMED THERMOPLASTIC.
- ALL SIGNS SHALL BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED.
- ACHD WILL CONDUCT NO PASSING ZONE STUDIES FOLLOWING PAVING. THEREFORE THE LOCATION OF NO PASSING ZONE SIGNS MAY CHANGE. THE CONTRACTOR IS RESPONSIBLE FOR PLACING THE NO PASSING ZONE SIGN AT THE CORRECT LOCATION.

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *[Signature]*
 DATE: 05/21/13 LICENSE NO. 42757

DRAWN BY: MTH DATE: 05/21/13
 DESIGN BY: MTH DATE: 05/21/13
 CHECKED BY: RB DATE: 05/23/13



ANOKA COUNTY
 HIGHWAY DEPT.
 SP 002-607-022

SIGN REMOVAL AND INSTALL PERMANENT MARKER SIGNS TABULATION						
STATION		REMOVE SIGN TYPE C	INSTALL DELINEATOR TYPE X4-13	INSTALL CLEARANCE MARKER X4-4	INSTALL SNOW PLOW MARKER X4-5	SIGN NUMBER
		EACH	EACH	EACH	EACH	
5+20	Lt	1				M1-6 M3-1AR
5+40	Rt	1				M3-1A M1-6 delineator
6+60	Rt	1	1			R2-1 delineator
8+10	Lt	1				W14-3 R3-X1
12+30	Lt	1			1	X4-5
13+00	Lt	1				W1-2R
13+50	Lt	1			1	X4-5
15+00	Lt	1				W2-2 W13-1
15+60	Lt	1		1		X4-4L
16+20	Lt	1			1	X4-5
23+30	Rt	1				X4-3 X4-3
23+50	Lt	1				X4-3 X4-3
27+20	Rt	1			1	x4-5
28+00	Lt	1	1			R1-1 delineator
29+00	Rt	1			1	X4-5
30+10	Rt	1				X4-3 X4-3
30+10	Lt	1				X4-3 X4-3
31+00	Lt	1				R3-X1
38+00	Lt	1				W1-4L W13-1
42+00	Rt	1				R3-X1
42+50	Lt	1	1			R1-1 delineator
44+60	Rt	1				W14-3
45+70	Rt	1	1			R1-1 delineator
46+00	Lt	1				R3-X1
49+80	Lt	1	1			R1-1 delineator
51+20	Rt	1				X4-3 X4-3
51+20	Lt	1				X4-3
53+20	Lt	1				R3-X1
67+80	Rt	1				R3-X1
71+40	Rt	1	1			R1-1 delineator

SIGN REMOVAL AND INSTALL PERMANENT MARKER SIGNS TABULATION						
STATION		REMOVE SIGN TYPE C	INSTALL DELINEATOR TYPE X4-13	INSTALL CLEARANCE MARKER X4-4	INSTALL SNOW PLOW MARKER X4-5	SIGN NUMBER
		EACH	EACH	EACH	EACH	
76+50	Rt	1				X4-3 X4-3
76+50	Lt	1				X4-3
77+70	Rt	1				R3-X1
81+10	Rt	1	1			R1-1 delineator
97+00	Rt	1				X4-3 X4-3
97+00	Lt	1				X4-3
102+00	Rt	1			1	X4-5
102+20	Rt	1		1		X4-4L
102+40	Rt	1	1			X4-13
103+00	Rt	1	1			X4-13
103+50	Rt	1	1			X4-13
104+40	Rt	1	1			X4-13
105+00	Rt	1	1			X4-13
105+50	Rt	1	1			X4-13
106+00	Rt	1	1			X4-13
106+50	Rt	1	1			X4-13
107+00	Rt	1	1			X4-13
107+50	Rt	1	1			X4-13
108+00	Rt	1	1			X4-13
108+50	Rt	1	1			X4-13
109+00	Rt	1	1			X4-13
109+50	Rt	1	1			X4-13
110+00	Rt	1	1			X4-13
110+50	Rt	1	1			X4-13
111+00	Rt	1	1			X4-13
111+50	Rt	1	1			X4-13
112+00	Rt	1	1			X4-13
112+60	Rt	1	1			X4-13
113+20	Rt	1	1			X4-13
113+70	Rt	1	1			X4-13
114+20	Rt	1	1			X4-13
115+00	Rt	1			1	X4-5
118+00	Lt	1				W1-4L
121+70	Rt	1				R3-X1 W14-3
122+30	Lt	1				R2-1
124+40	Lt	1				R1-1 R1-4
124+70	Rt	1	1			R1-1 R1-4 X4-13
124+70	Rt	1				M1-6A M3-4A

SIGN REMOVAL AND INSTALL PERMANENT MARKER SIGNS TABULATION						
STATION		REMOVE SIGN TYPE C	INSTALL DELINEATOR TYPE X4-13	INSTALL CLEARANCE MARKER X4-4	INSTALL SNOW PLOW MARKER X4-5	SIGN NUMBER
		EACH	EACH	EACH	EACH	
125+50	Lt	1				R1-1 R1-4 X4-13
125+50	Lt	1	1			M1-6A M3-4A
125+70	Rt	1				M3-1A M1-6A R1-1 R1-4 X4-13
128+30	Lt	1				R3-X1
130+70	Rt	1				R2-1
130+70	Lt	1				M2-1A M1-6A
147+30	Lt	1				R1-1
159+90	Rt	1	1			X4-13
173+90	Lt	1				W1-2L W14-3 W1-2R
176+30	Lt	1				R1-1 X4-13
176+80	Rt	1	1			R1-1 X4-13
179+80	Lt	1				R3-X1
186+50	Rt	1				R8-3a R8-3ap
186+60	Lt	1				R8-3a R8-3ap
187+00	Rt	1				X4-3
187+00	Lt	1				X4-3
187+40	Rt	1				X4-3 W14-3
188+00	Rt	1				R8-3a R8-3ap
188+00	Lt	1				R8-3a R8-3ap
190+00	Rt	1				R8-3a R8-3ap
190+00	Lt	1				R8-3a R8-3ap
192+20	Rt	1				R8-3a R8-3ap
192+40	Lt	1				R8-3a R8-3ap
194+20	Rt	1				R8-3a R8-3ap

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\02-607-022_Permanent Signing.dwg

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

PRINT NAME: ANDREW WITTER

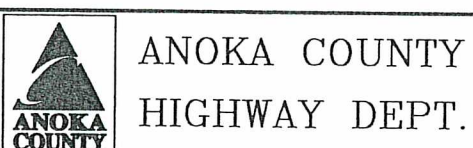
SIGNATURE: *Andrew Witter*

DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE: 05/21/13

DESIGN BY: MTH DATE: 05/21/13

CHECKED BY: RB DATE: 05/23/13



ANOKA COUNTY
HIGHWAY DEPT.

SP 002-607-022

SIGN REMOVAL AND INSTALL PERMANENT MARKER SIGNS TABULATION						
STATION		REMOVE SIGN TYPE C	INSTALL DELINEATOR TYPE X4-13	INSTALL CLEARANCE MARKER X4-4	INSTALL SNOW PLOW MARKER X4-5	SIGN NUMBER
		EACH	EACH	EACH	EACH	
194+40	Lt	1				R8-3a
						R8-3ap
195+70	Rt	1				R8-3a
						R8-3ap
195+70	Lt	1				R8-3a
						R8-3ap
199+70	Lt		1			X4-13
200+30	Rt	1				R1-1
203+00	Rt	1				R2-1
203+00	Lt	1				R2-1
210+50	Rt	1				X4-3
						X4-3
210+50	Lt	1				X4-3
						X4-3
210+70	Lt	1				W14-3
211+20	Rt	1				W1-2L
222+20	Lt	1				S3-1
223+70	Rt	1				R1-1
			1			X4-13
225+40	Lt	1				W1-2R
235+70	Rt	1				R1-1
			1			X4-13
239+70	Rt	1				W1-2R
239+70	Lt	1				W14-3
240+50	Lt	1				R1-1
			1			X4-13
253+30	Lt	1				W14-3
						W1-2L
254+30	Rt	1				W1-2R
						W13-1
						W14-3
259+00	Lt	1				W1-8
						W1-8
260+20	Lt	1				W1-8
						W1-8
260+30	Lt	1				R1-1
			1			X4-13
261+40	Lt	1				W1-8
						W1-8
262+40	Lt	1				W1-8
						W1-8
267+20	Lt	1	1			X4-13
267+30	Rt	1				R2-1
						W14-3
269+50	Lt	1				W1-2L
						W13-1
272+80	Rt	1			1	X4-5
272+90	Lt	1			1	X4-5

SIGN REMOVAL AND INSTALL PERMANENT MARKER SIGNS TABULATION						
STATION		REMOVE SIGN TYPE C	INSTALL DELINEATOR TYPE X4-13	INSTALL CLEARANCE MARKER X4-4	INSTALL SNOW PLOW MARKER X4-5	SIGN NUMBER
		EACH	EACH	EACH	EACH	
274+00	Rt	1		1		X4-4L
274+10	Lt	1		1		X4-4R
274+60	Rt	1		1		X4-4R
274+70	Lt	1		1		X4-4L
275+80	Rt	1			1	X4-5
276+00	Lt	1			1	X4-5
276+60	Lt	1				W14-3
						R2-1
278+80	Lt	1				R1-1
			1			X4-13
284+60	Rt	1				R1-1
			1			X4-13
284+90	Rt	1				W1-2L
						X4-3
284+90	Lt	1				X4-3
						X4-3
289+50	Rt	1				W14-3
300+50	Lt	1				W1-2R
309+00	Rt	1				W1-2R
309+00	Lt	1				W14-3
312+80	Rt	1				SCHOOL WALKING ZONE
						W20-100p
314+00	Rt	1				R1-1
						X4-13
314+80	Lt	1				R2-1
316+70	Rt	1				R2-1
320+00	Rt	1				R3-X1
322+50	Rt	1				W14-3
322+90	Lt	1				R1-1
			1			X4-13
323+70	Rt	1				R1-1
			1			X4-13
323+80	Lt	1				W1-2L
326+50	Lt	1				R3-X1
327+20	Lt	1				R1-1
			1			X4-13
329+10	Rt	1				M2-1A
						M1-6A
329+10	Lt	1				W14-3
329+90	Rt	1				X4-3
						X4-3
329+90	Lt	1				X4-3
						X4-3
331+30	Rt	1	1			X4-13
332+00	Lt	1				R2-1

SIGN REMOVAL AND INSTALL PERMANENT MARKER SIGNS TABULATION						
STATION		REMOVE SIGN TYPE C	INSTALL DELINEATOR TYPE X4-13	INSTALL CLEARANCE MARKER X4-4	INSTALL SNOW PLOW MARKER X4-5	SIGN NUMBER
		EACH	EACH	EACH	EACH	
332+50	Rt	1				W1-2L
						W13-1
332+50	Lt	1				M3-3A
						M1-6A
334+10	Lt	1				M1-6A
						M5-1AR
334+13	Lt	1				M1-6A
						M5-1AR
334+20	Lt	1				R1-1
			1			X4-13
334+90	Rt	1				M3-1A
						M1-6A
335+10	Lt	1				M1-6A
						M5-1AR
336+70	Lt	1				R3-X1
339+30	Lt	1				R1-1
			1			X4-13
339+80	Lt	1				M1-6A
340+70	Rt	1				W1-8
						W1-8
341+20	Lt	1				R2-1
341+50	Rt	1				W1-8
						W1-8
342+10	Rt	1				R2-1
342+70	Rt	1				W1-8
						W1-8
347+70	Lt	1				S5-2
347+70	Lt	1				R2-1
TOTAL		170	51	6	11	

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Permanent Signing.dwg

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

PRINT NAME: ANDREW WITTER

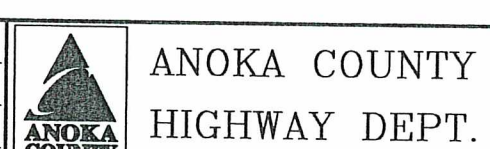
SIGNATURE: *Andrew Witter*

DATE: 4/17/13 LICENSE NO. 42757

DRAWN BY: MTH DATE 05/21/13

DESIGN BY: MTH DATE 05/21/13

CHECKED BY: RB DATE 05/23/13



SP 002-607-022

SIGN PANELS TYPE C						
M.U.T.C.D. CODE	SIZE	PANEL AREA FT. ²	INSERT	QUANTITY		MOUNTING HEIGHT (POST ASSEMBLY) FT.
				No.	POST	
R1-1	30" X 30"	6.25	STOP	22	1	7.0'
R1-1	36" X 36"	9.00		2	2	7.0'
R1-1	48" X 48"	16.00		3	2	7.0'
R1-4	18" X 6"	6.25		4		7.0'
X4-13	4" X 13"		X4-13	51		
R2-1	24" X 30"	5.00	SPEED LIMIT	2	1	7.0'
			35	4	1	7.0'
			45	4	1	7.0'
			50	4	1	7.0'
			55	4	1	7.0'
R3-X1	30" X 30"	6.25	RIGHT TURN LANE	13	1	7.0'
R8-3a	24" X 24"	4.00	NO REVERSE SIGNS	12	1	7.0'
R8-3aP	12" X 24"	2.00		12		7.0'
W1-2R	36" X 36"	9.00	W1-2R	7	2	7.0'
W1-2L	36" X 36"	9.00		7	2	7.0'
W1-4R	36" X 36"	9.00		0	2	7.0'
W1-4L	36" X 36"	9.00		3	2	7.0'
W13-1	24" X 24"	4.00	MPH	1	2	7.0'
				2	2	7.0'
				1	2	7.0'
W1-7	24" X 48"	8.00	W1-7	0	2	7.0'
W1-8	18" X 24"	3.00		14	1	7.0'
W2-2	36" X 36"	9.00	W2-2	1	2	7.0'
W13-1	24" X 24"	4.00		45 MPH	1	7.0'
W14-3	48" X 36"	6.00	NO PASSING ZONE	13	2	7.0'

SIGN PANELS TYPE C						
M.U.T.C.D. CODE	SIZE	PANEL AREA FT. ²	INSERT	QUANTITY		MOUNTING HEIGHT (POST ASSEMBLY) FT.
				No.	POST	
M3-1A	24" X 12"	2.00	NORTH	2		7.0'
M3-3A	24" X 12"	2.00	SOUTH	1		7.0'
M1-6a	24" X 24"	4.00	M1-6a	4	1	7.0'
M6-1AR	21" X 15"	2.19		1		7.0'
M2-1a	21" X 15"	2.19	JCT	1		7.0'
M1-6a	24" X 24"	4.00	M1-6a	3	1	7.0'
M6-4A	21" X 15"	2.19		2		7.0'
M2-1a	21" X 15"	2.19	JCT	1		7.0'
M3-2A	24" X 12"	2.00	EAST	1		7.0'
M1-6a	24" X 24"	4.00	M1-6a	4	1	7.0'
M6-1AR	21" X 15"	2.19		1		7.0'
M6-1A	21" X 15"	2.19	1		7.0'	
M1-6a	24" X 24"	4.00	M1-6a	1	1	7.0'
M6-1AR	21" X 15"	2.19		1		7.0'
SX-X	36" X 36"	9.00	SCHOOL WALKING ZONE	1	2	7.0'
W20-100p	24" X 18"	3.00	700 FEET	1		7.0'
SS-2	24" X 30"	5.00	END SCHOOL ZONE	1	1	7.0'
X4-2	18" X 18"	2.25	X4-2	0	1	7.0'
X4-3	6" X 12"	0.50		36	1	7.0'
X4-4R	18" X 36"	4.50	X4-4R	2	1	7.0'
X4-4L	18" X 36"	4.50		4	1	7.0'
X4-5	6" X 12"	0.50	X4-5	12	1	7.0'

SIGN PANELS TYPE C						
SIGN DESIGNATION	SIGN SIZE	SIZE AREA (FT ²)	Total Installations	Total Area (ft ²)	Posts per Installation	Notes
R1-1	30" x 30"	6.25	22	137.5	1	
R1-1	36" x 36"	9	2	18	2	
R1-1	48" x 48"	16	3	48	2	
R1-4	18" x 6"	0.75	4	3		A
x4-13	4" x 15"	1.31	51			B, G
R2-1	24" x 30"	5	14	70	1	
R3-X1	24" x 36"	6	13	78	1	
R8-3a	24" x 24"	4	12	48	1	
R8-3aP	12" x 24"	2	12	24	0	
W1-2R	36" x 36"	9	7	63	2	
W1-2L	36" x 36"	9	6	54	2	
W1-4R	48" x 48"	16	3	48	2	
W13-1	24" x 24"	4	5	20		
W1-7	24" x 48"	4	1	4	2	
W1-8	24" x 24"	8	14	112	2	
W2-2	36" x 36"	9	1	9	2	
W14-3	48" x 36"	6	13	78	2	
M1-6A	24" x 24"	4	10	40	1	
M2-1A	21" x 15"	2.19	1	2.19		D
M3-1A	24" x 12"	2	2	4		D
M3-2A	24" x 12"	2	1	2		D
M3-3A	24" x 12"	2	2	4		D
M6-1AL	21" x 15"	2.19	1	2.19		E
M6-1AR	21" x 15"	2.19	3	6.56		E
M6-4A	21" x 15"	2.19	1	2.19		E
SX-X	36" x 36"	9	1	9	2	
W20-100p	24" x 18"	3	1	3		D
SS-2	24" x 30"	5	1	5	1	
X4-3	6" x 12"	0.5	36	18		
X4-4R	18" x 36"	4.5	2			H
X4-4L	18" x 36"	4.5	4			H
X4-5	6" x 12"	0.5	12			I
Project Totals			261	912.63		

NOTES: This table illustrates quantities for F&I new type "C" signs only.

- A Sign mounted below R1-1 Sign Post Assembly
- B Paid for by the EACH 2564.550 Delineator type X4-13
- D Sign mounted above M1-6A sign post assembly
- E Sign mounted below M1-6A sign post assembly
- F Sign mounted below R4-7 Sign Post Assembly
- G Delineator mounted below R1-1 sign post assembly
- H Paid for by the EACH 2564.553 clearance marker X4-4
- I Paid for by the EACH 2564.554 snow plow marker X4-5

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-607-022\Base\TRAFFIC\02-607-022_Permanent Striping.dwg

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/13/13 LICENSE NO. 42757

DRAWN BY: MTH DATE 05/21/13
 DESIGN BY: MTH DATE 05/21/13
 CHECKED BY: RB DATE 05/23/13

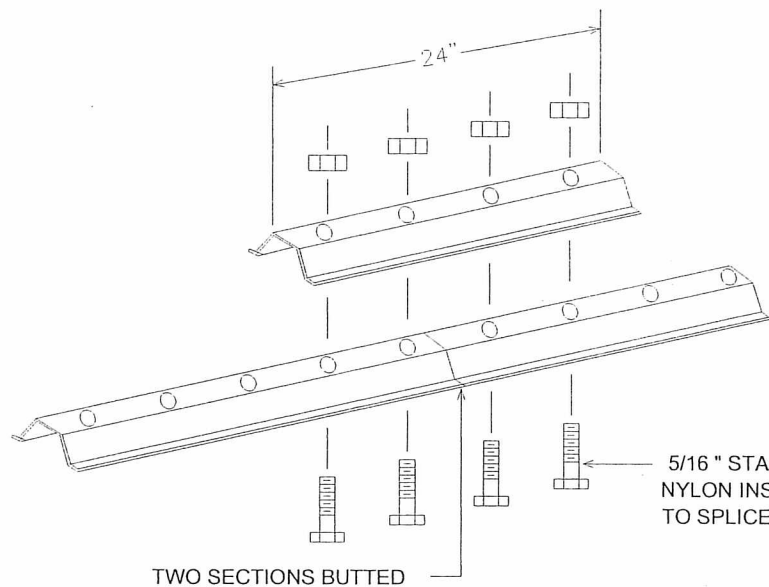


ANOKA COUNTY
 HIGHWAY DEPT.

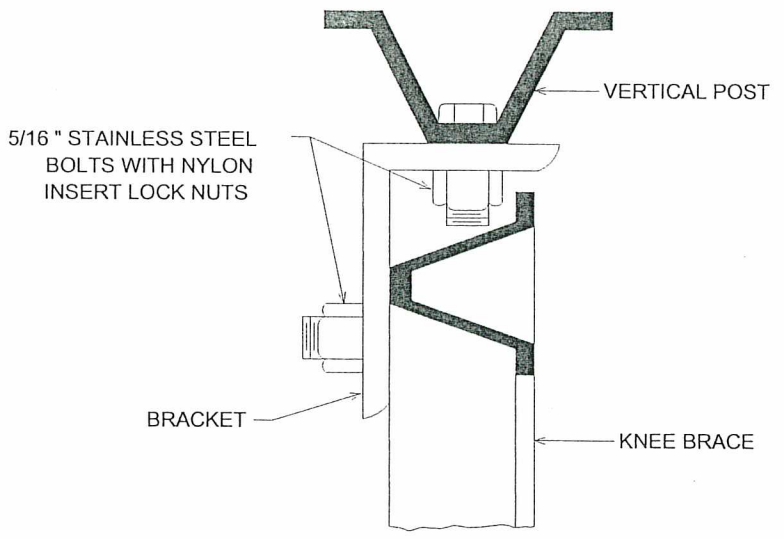
SP 002-607-022

PERMANENT SIGN QUANTITY
 & TABULATION

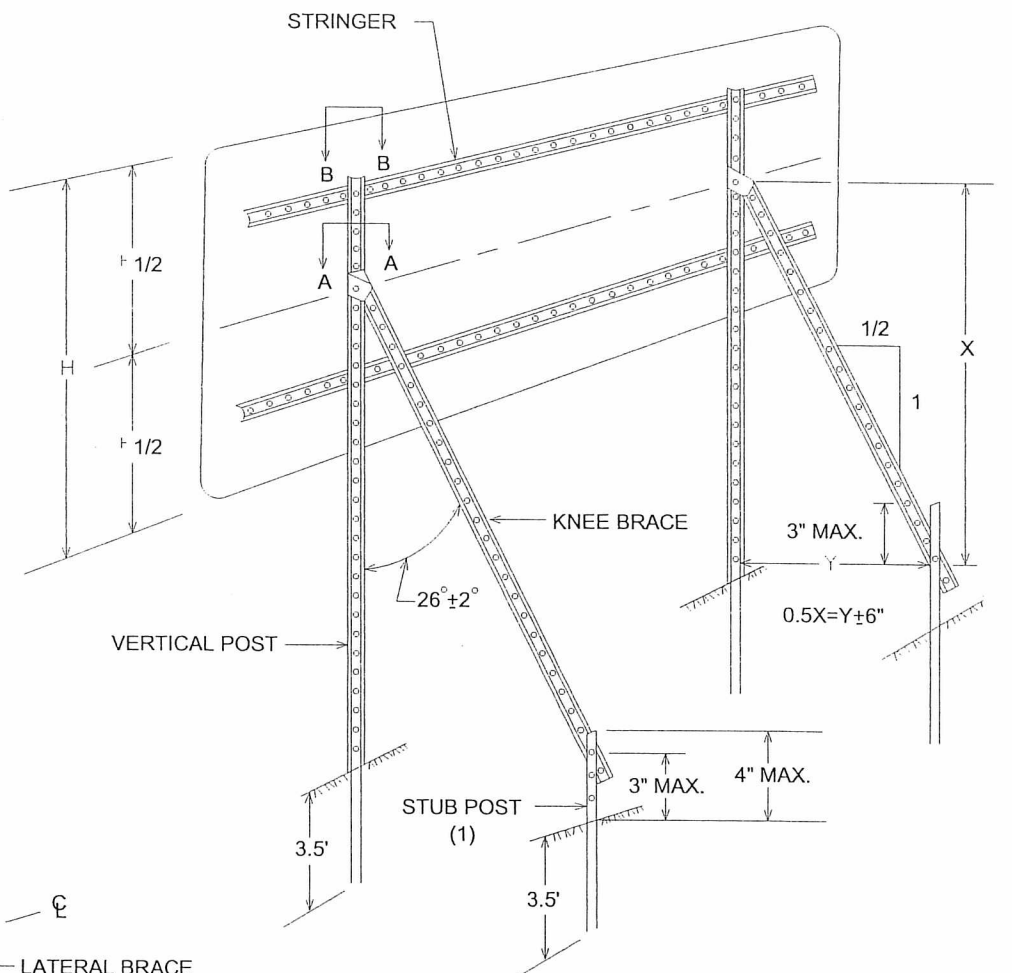
Sheet 55 of 57 Sheets



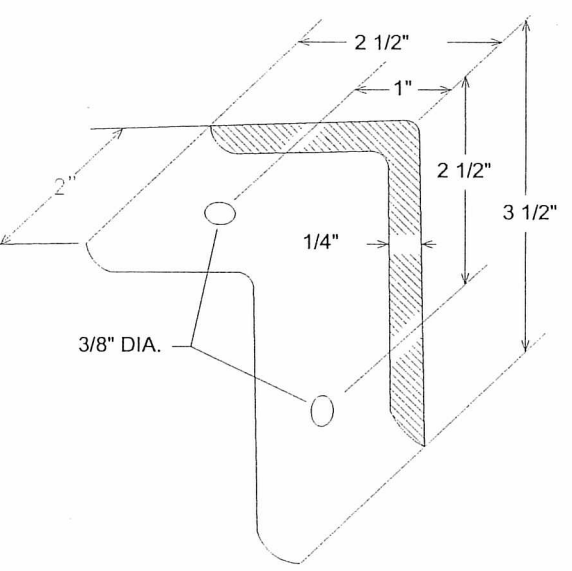
**LATERAL BRACE OR STRINGER
SPLICE DETAIL (EXPLODED VIEW)**



SECTION A-A

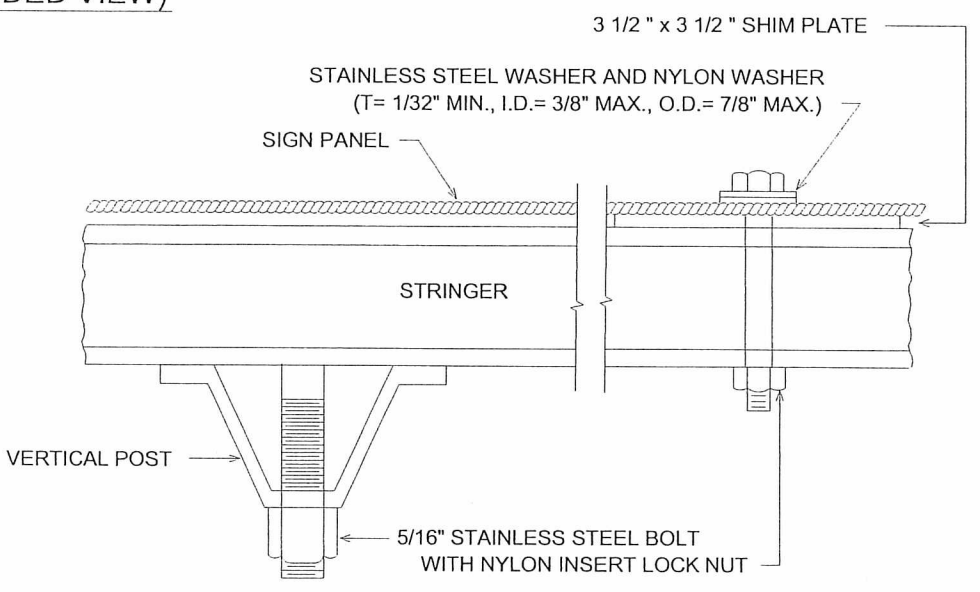


**TYPICAL "A-FRAME" INSTALLATION
TYPE "D" SIGNS**

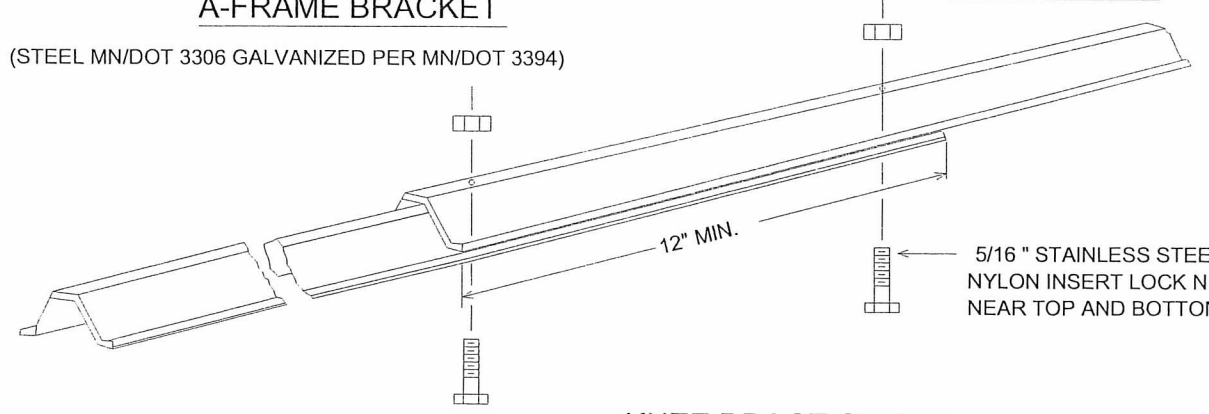


A-FRAME BRACKET

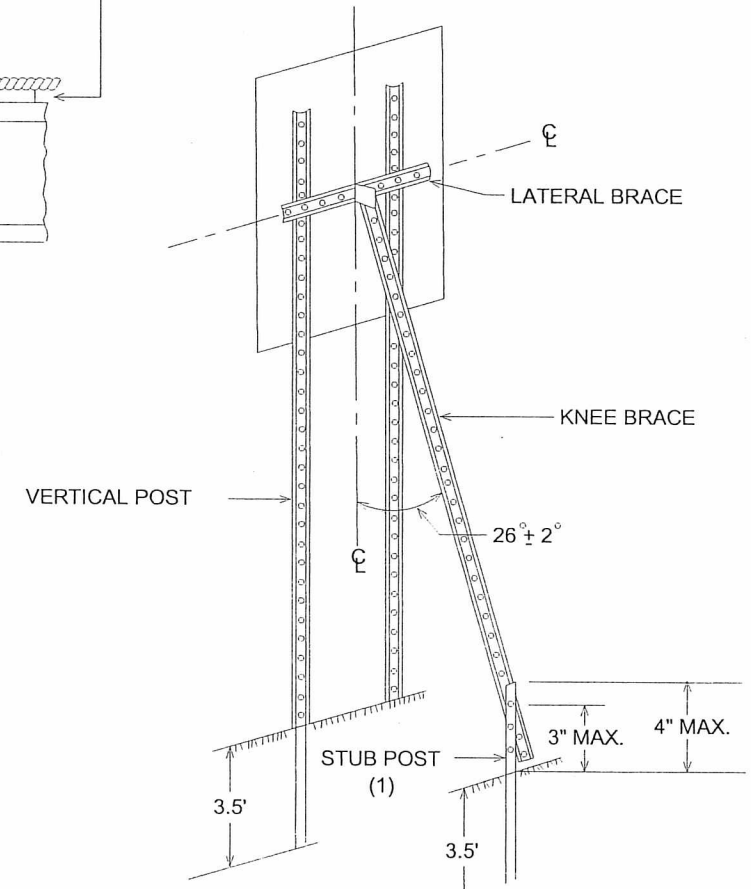
(STEEL MN/DOT 3306 GALVANIZED PER MN/DOT 3394)



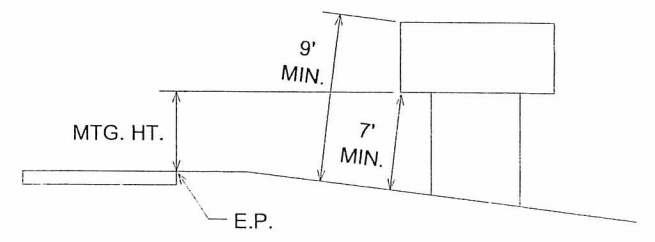
SECTION B-B



KNEE BRACE SPLICE



**TYPICAL "A-FRAME" INSTALLATION
TYPE "C" SIGNS**



TYPICAL MOUNTING

(1) OFFSET STUB POST 1' TOWARD ROADWAY
RELATIVE TO VERTICAL POST.

**TYPE C & D SIGN
STRUCTURAL DETAILS**

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\002-607-022\Base\TRAFFIC\Sign&Stripe_Details.dwg

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE: *Andrew Witter*
 DATE: 4/7/13 LICENSE NO. 42757

DRAWN BY: MTH DATE: 5-20-13
 DESIGN BY: MTH DATE: 5-20-13
 CHECKED BY: RB DATE: 5-23-13



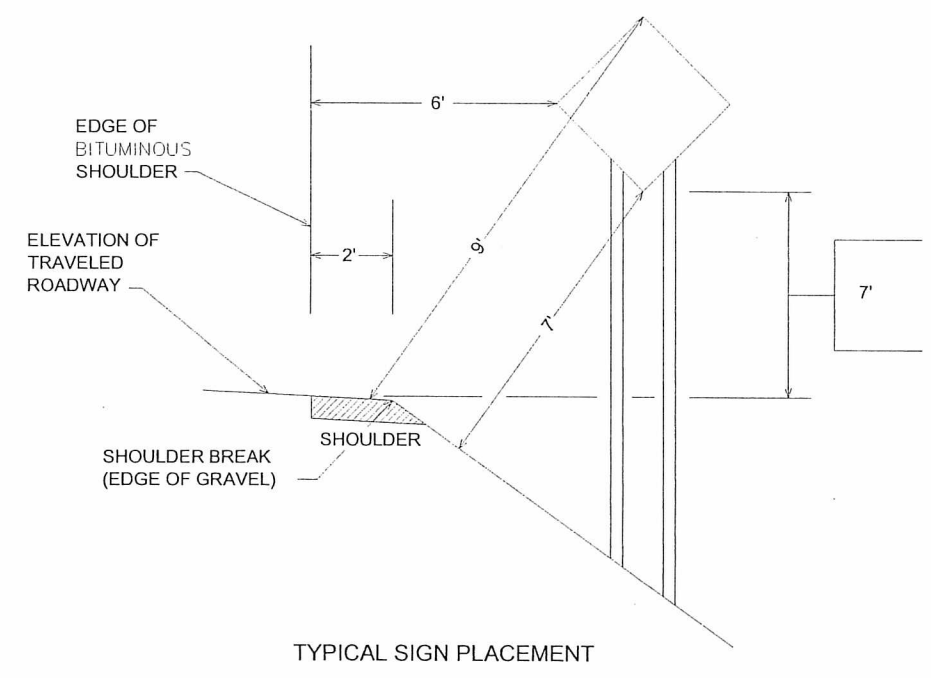
**ANOKA COUNTY
HIGHWAY DEPT.**

S. P. 002-607-022

SIGNING & STRIPING DETAILS

Sheet 56 of 57 Sheets

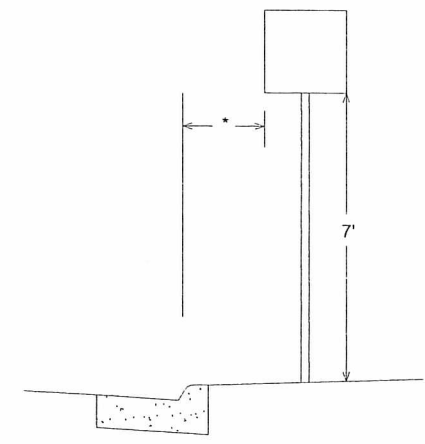
RURAL



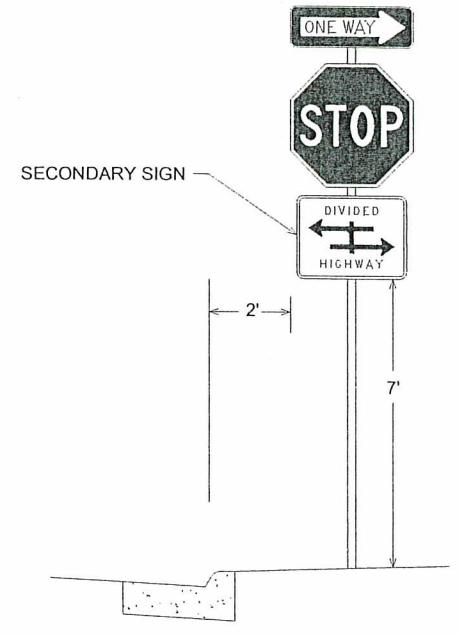
TYPICAL SIGN PLACEMENT

URBAN

- 2' - NARROW BOULEVARD (< 8' WIDE)
- 6' - WIDE BOULEVARD



TYPICAL SIGN PLACEMENT



- NOTE:
- ALL DIMENSIONS ARE MINIMUMS
 - MAINTAIN 2' CLEAR FROM SIGNS TO BITUMINOUS TRAIL

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\002-607-022\Bose\TRAFFIC\Sign&Stripe_Details.dwg

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *[Signature]*

DATE: 6/17/13 LICENSE NO. 42757

DRAWN BY MTH DATE 5-20-13

DESIGN BY MTH DATE 5-20-13

CHECKED BY RB DATE 05-23-12



ANOKA COUNTY
HIGHWAY DEPT.

S. P. 002-607-022

SIGNING & STRIPING DETAILS

Sheet 57 of 57 Sheets