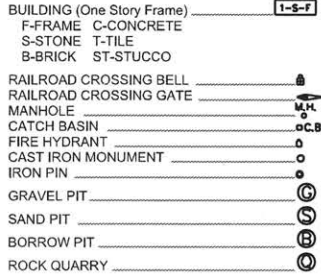
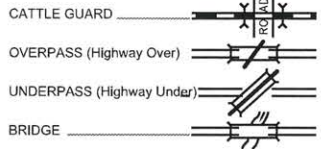
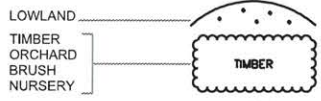
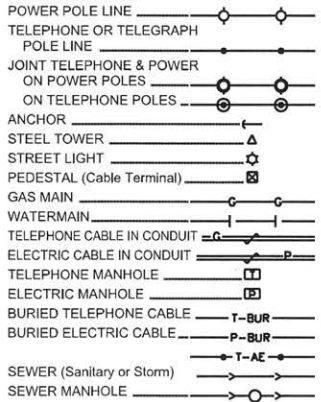


PLAN SYMBOLS

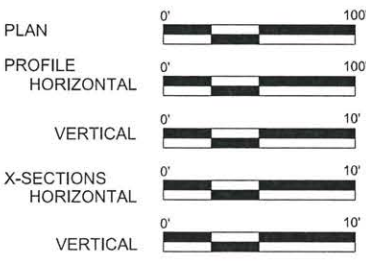
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- TOWNSHIP OR RANGE LINE _____
- SECTION LINE _____
- QUARTER LINE _____
- SIXTEENTH LINE _____
- RIGHT OF WAY LINE _____
- SLOPE EASEMENT _____
- EXISTING RIGHT OF WAY _____
- PROPERTY LINE _____
- CORPORATE OR CITY LIMITS _____
- RETAINING WALL _____
- 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 _____



UTILITY SYMBOLS



SCALES



MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

CONSTRUCTION PLAN FOR BITUMINOUS RECLAMATION, BITUMINOUS OVERLAY
LOCATED ON C.R. 52 / 61 BETWEEN 550' N 139TH AVE NE AND XYLITE ST.

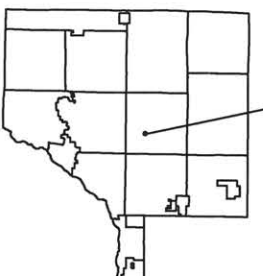
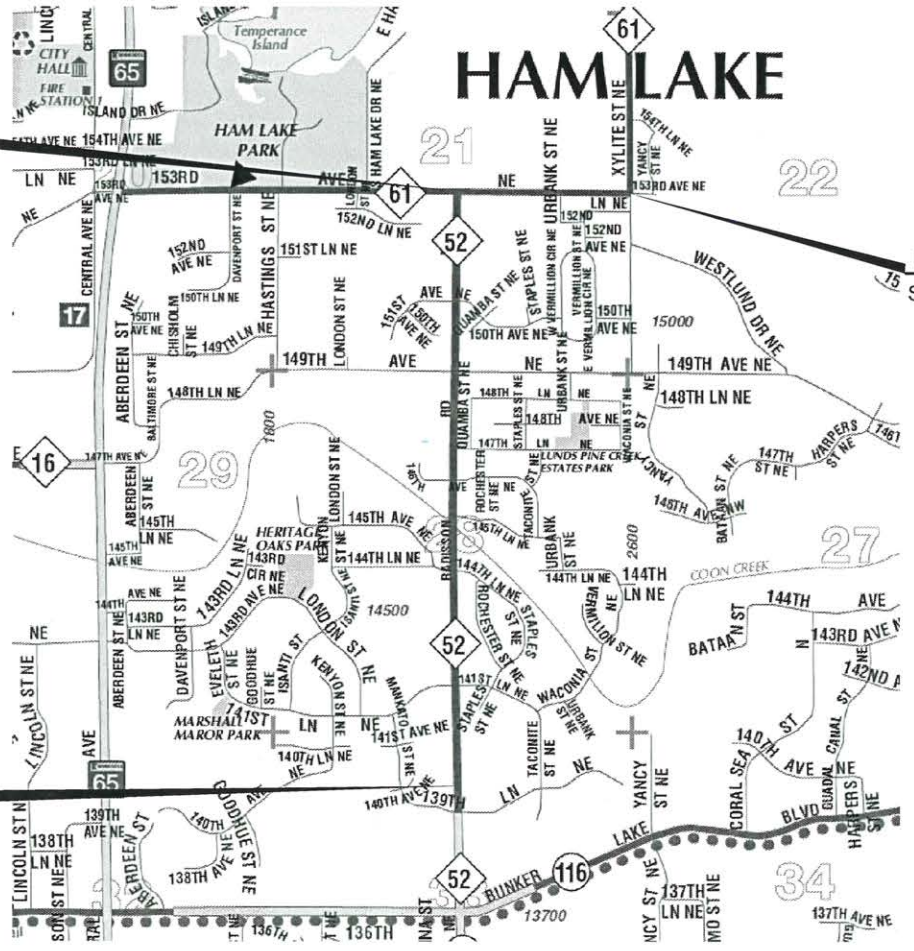
C.R. 52 / 61
GROSS LENGTH 11,149.0 FEET 2.11 MILES
EXCEPTIONS-LENGTH 66.50 FEET 0.013 MILES
NET LENGTH 11,082.5 FEET 2.10 MILES



END 14-51-52
BEGIN 14-53-61
STA. 121+87

END 14-53-61
STA. 96+27.4

BEGIN C.P. 14-51-52 - 14-53-61
STA. 10+38



PROJECT LOCATION
CITY OF ANOKA
ANOKA COUNTY
MN/DOT TRANSPORTATION DISTRICT - METRO
SECTIONS 28 & 21
TOWNSHIPS 32 NORTH
RANGE 23 WEST

GOVERNING SPECIFICATIONS

THE 2014 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."

INDEX


SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	EXISTING TYPICAL SECTION
4	PROPOSED TYPICAL SECTION
5 - 6	MISCELLANEOUS DETAILS
7 - 10	CONSTRUCTION PLAN
11 - 16	TRAFFIC PLAN

THIS PLAN CONTAINS 16 SHEETS


Approved:  4/29/2014
ANOKA COUNTY ENGINEER

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\14-01-00\CR_61_CRS52-Xylite\Bases\PROPOSED\NORTL1_TITLE.dgn

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 WITTS
SIGNATURE: 
DATE: 4/29/14 LICENSE NO. 42757

DRAWN BY: RT DATE: 04/10/2014
DESIGN BY: RT DATE: 04/10/2014
CHECKED BY: DF DATE: 04/10/2014

 ANOKA COUNTY
HIGHWAY DEPT.

COUNTY PROJECT 14-51-52
COUNTY PROJECT 14-53-61

TITLE SHEET
Sheet 1 of 16 Sheets

STATEMENT OF ESTIMATED QUANTITIES				
ITEM NO.	ITEM	NOTES	UNIT	TOTAL PROJECT QUANTITIES ESTIMATED
2021.501	MOBILIZATION		LUMP SUM	1
2101.501	CLEARING		ACRE	1
2101.502	CLEARING		EACH	2
2101.506	GRUBBING		ACRE	1
2101.507	GRUBBING		EACH	2
2104.501	REMOVE PIPE CULVERTS		LIN FT	144
2104.503	REMOVE BITUMINOUS PAVEMENT	12	SQ YD	1796
2104.503	REMOVE CONCRETE DRIVEWAY PAVEMENT	8	SQ YD	229
2104.503	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	8	SQ YD	1404
2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)	8	LIN FT	69
2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	8	LIN FT	681
2123.503	MOTOR GRADER		HOUR	40
2123.509	DOZER	10	HOUR	16
2130.501	WATER		MGAL	209
2211.501	AGGREGATE BASE CLASS 5	8	TON	270
2215.501	FULL DEPTH RECLAMATION		SQ YD	30281
2215.502	HAUL FULL DEPTH RECLAMATION (LV)		CU YD	100
2221.502	SHOULDER BASE AGGREGATE CLASS 5		TON	691
2232.501	MILL BITUMINOUS SURFACE (2.0")	3	SQ YD	2171
2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	1757
2360.501	TYPE SP 12.5 WEARING COURSE MIXTURE (4,B)	8	TON	495
2360.501	TYPE SP 12.5 WEARING COURSE MIXTURE (4,E)		TON	7921
2501.567	15" RC SAFETY APRON & GRATE DES 3128	9	EACH	4
2503.541	15" RC PIPE SEWER DES 3006 CL V	9	LIN FT	112
2511.501	RANDOM RIPRAP CLASS II	9	CU YD	18
2511.515	GEOTEXTILE FILTER TYPE IV	9	SQ YD	77
2531.507	6" CONCRETE DRIVEWAY PAVEMENT	8	SQ YD	229
2535.501	BITUMINOUS CURB (MODIFIED)		LIN FT	925
2540.602	INSTALL MAIL BOX SUPPORT	1	EACH	16
2563.601	TRAFFIC CONTROL	5	LUMP SUM	1
2563.602	PORTABLE CHANGEABLE MESSAGE SIGN	4	UNIT DAY	14
2573.530	STORM DRAIN INLET PROTECTION	7	EACH	3
2573.533	SEDIMENT CONTROL LOG TYPE ROCK	11	LIN FT	90
2573.560	CULVERT END CONTROLS	7	EACH	8
2573.610	BITUMINOUS FLUME		SQ YD	29
2575.523	EROSION CONTROL BLANKETS CATEGORY 0	13	SQ YD	244
2575.571	RAPID STABILIZATION METHOD 3	14	MGAL	4
2581.501	REMOVABLE PREFORM PAVEMENT MARKING TAPE	2	LIN FT	147
2582.502	4" SOLID LINE WHITE-EPOXY	6	LIN FT	21750
2582.502	4" BROKEN LINE WHITE - EPOXY	6	LIN FT	40
2582.502	4" SOLID LINE YELLOW-EPOXY	6	LIN FT	5980
2582.502	4" BROKEN LINE YELLOW-EPOXY	6	LIN FT	1530
2582.502	4" DOUBLE SOLID LINE YELLOW-EPOXY	6	LIN FT	1995

CONSTRUCTION NOTES	
1	MAILBOXES ARE TO BE INSTALLED AT THE EXISTING MAILBOX LOCATION OR AS DIRECTED BY THE LOCAL POSTAL AUTHORITY, CONTRACTOR IS RESPONSIBLE FOR CONTACTING. REMOVAL AND ALL MAILBOX MATERIALS ARE INCIDENTAL TO INSTALLATION.
2	CENTERLINE SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON EACH NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE PRIOR TO FINAL PAINT STRIPING.
3	ITEM INCLUDES 2" DEEP MILL AT BEGINNING AND END OF PROJECT, ALL PAVED ST APPROACHES, AND DRIVEWAYS; SEE DETAILS FOR DIMENSIONS
4	2 MESSAGE BOARDS, ONE ON THE EACH END OF PROJECT WILL BE INSTALLED 7 DAYS PRIOR TO ANY CONSTRUCTION; REFERENCE STRIPING PLAN FOR DETAILS.
5	DO NOT PASS, PASS WITH CARE AND NO CENTER STRIPE SIGNS TO BE INPLACE DURING MILLING, RECLAIMING OR PAVING
6	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING.
7	ALL DRAINAGE STRUCTURES EFFECTED BY THIS PROJECT MUST HAVE INLET PROTECTION.
8	CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.
9	TOPSOIL IS INCIDENTAL TO TURF ESTABLISHMENT AROUND PIPE REPAIRS
10	GRADING DITCHES AFTER CLEARING AND GRUBBING OPERATIONS COMPLETED
11	PLACE LOGS ON SMOOTH, PREPPED SOILS WITH NO GAPS BETWEEN LOG AND SOIL. INSTALL LOGS ALONG CONTOURS WITH ENDS TURNED UP SLOPE IN A J-HOOKED MANNER.
12	STREET APPROACHES
13	TYPE 4 FERTILIZER AND TYPE 240 SEED ARE INCIDENTAL TO BLANKET
14	TO BE USED ON SLOPES GREATER THEN 4:1 AFTER CLEARING AND GRUBBING OPERATIONS COMPLETED

BASIS OF PLANNED QUANTITIES		
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	.05 GAL / SQ YD
2211.501	AGGREGATE BASE CLASS 5	1.8 TON / CY
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,B) SPWEB440B	115 LB / SQ YD / IN. THICKNESS

NO	DATE	BY	CKD	APPR	REVISION	TIME
	04/24/2014					10:44:53 AM

NAME: P:\14-01-00\CR_61_(CR52-Xylite)\Base\PROPOSED\NORTL12_SEQ.dgn

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: 4/28/14 LICENSE NO. 42757

DRAWN BY: RT DATE: 04/24/2014

DESIGN BY: RT DATE: 04/24/2014

CHECKED BY: DF DATE: 04/24/2014



ANOKA COUNTY
HIGHWAY DEPT.

COUNTY PROJECT 14-51-52
COUNTY PROJECT 14-53-61

STATEMENT OF ESTIMATED QUANTITIES

Sheet 2 of 16 Sheets

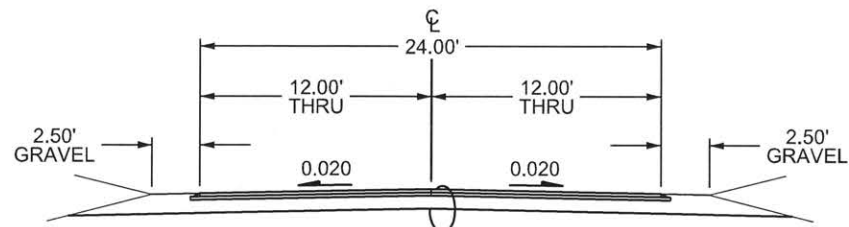
RADISSON ROAD (CR 52)

EXISTING

10+38 - 18+54

23+96 - 35+30

50+55 - 96+46

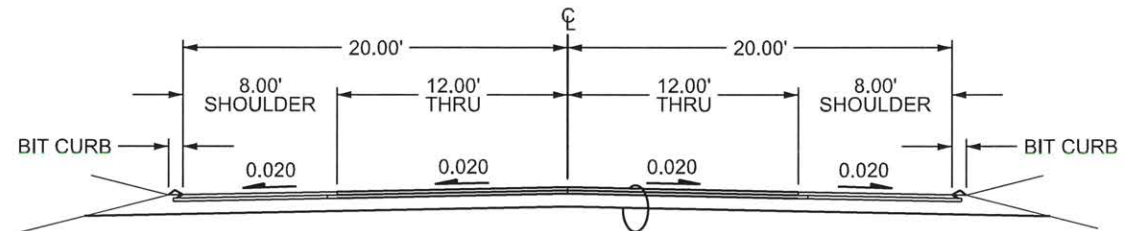


EXISTING TYPICAL SECTION

RADISSON ROAD (CR 52)

EXISTING - BITUMINOUS CURB

40+65 - 43+00



EXISTING TYPICAL SECTION

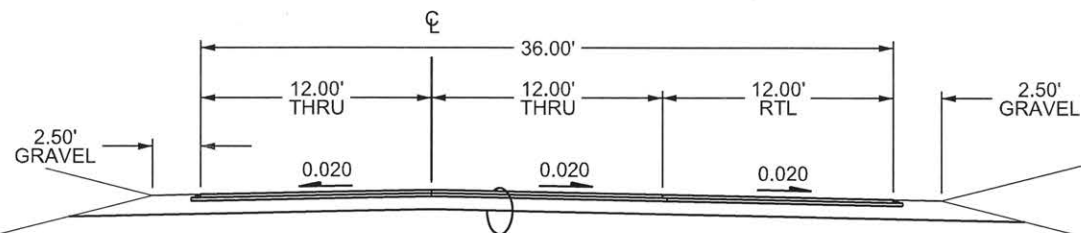
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EXISTING

18+54 - 23+96

35+30 - 38+00

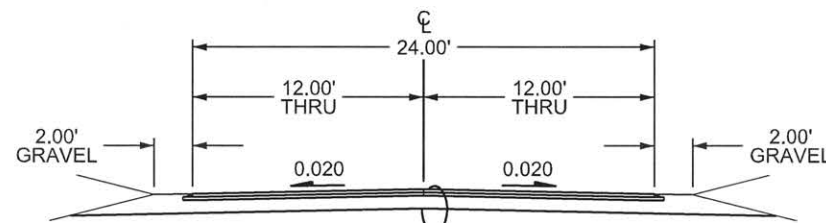


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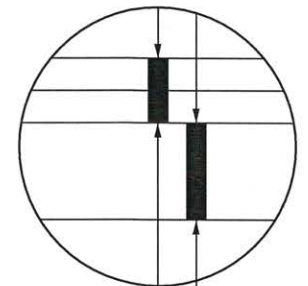
RADISSON ROAD (CR 52)

EXISTING

96+46 - 121+90



EXISTING TYPICAL SECTION

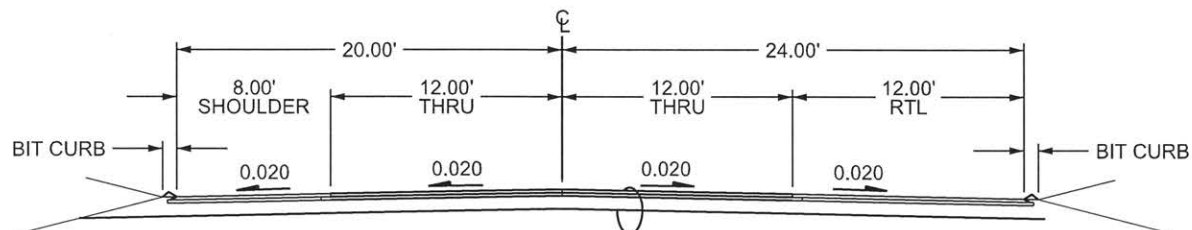


4" BITUMINOUS PAVEMENT
EXISTING BASE MATERIAL

RADISSON ROAD (CR 52)

EXISTING - TURN LANE / BITUMINOUS CURB

38+00 - 40+65

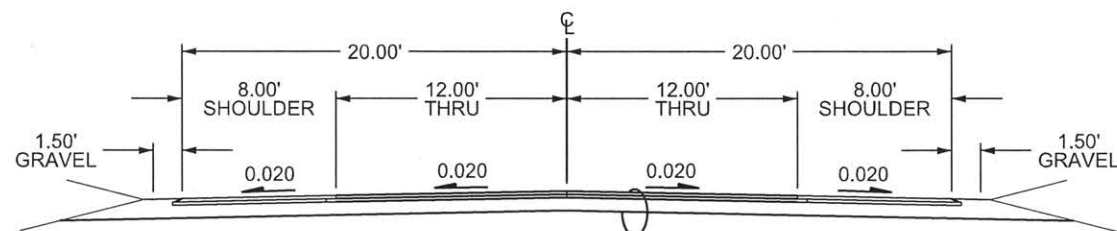


EXISTING TYPICAL SECTION

RADISSON ROAD (CR 52)

EXISTING - 8' SHLD.

43+00 - 50+55



EXISTING TYPICAL SECTION

NO	DATE	BY	CKD	APPR	REVISION	04/10/2014	9:02:44 AM
NAME: P:\14-01-00\CR_61_(CR52-Xylite)\Base\PROPOSED\NORTL3_TYPICAL.dgn							

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**ANOKA COUNTY
HIGHWAY DEPT.**

COUNTY PROJECT 14-51-52
 COUNTY PROJECT 14-53-61

EXISTING TYPICAL SECTION
 Sheet 3 of 16 Sheets

RADISSON ROAD (CR 52)

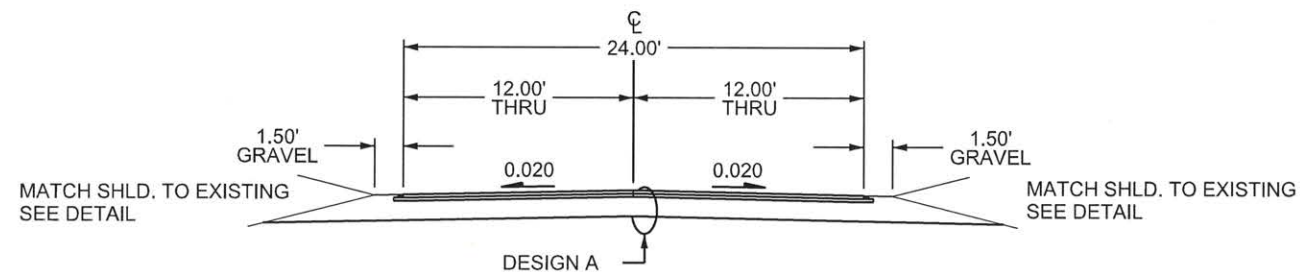
PROPOSED - TYPICAL

10+38 - 18+54

23+96 - 35+30

50+55 - 96+27

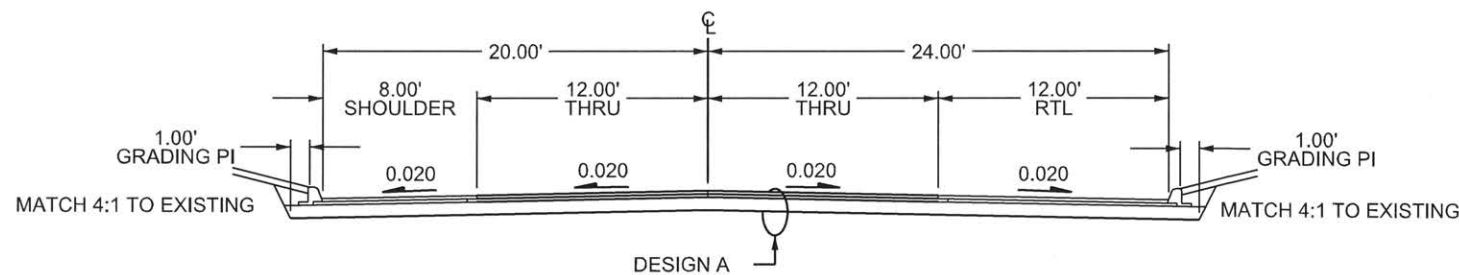
96+27 - 121+90 (153RD AVE (CR 61))



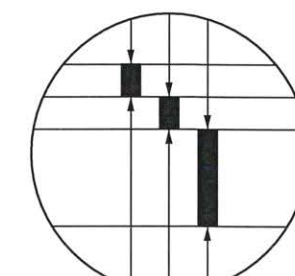
RURAL RECLAIM ROAD (CR 52)

PROPOSED ROAD - TURN LANE / BIT CURB

38+00 - 40+65



**DESIGN A
PROPOSED SECTION**



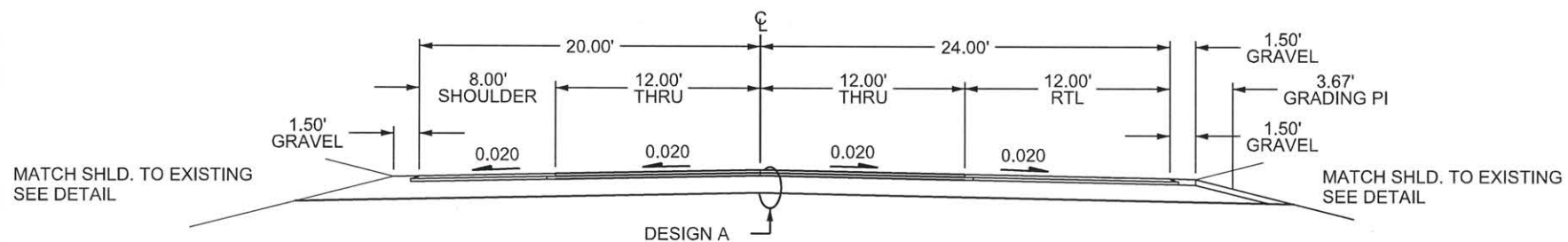
2.0" BITUMINOUS WEAR(SPWEB440E)
2.0" BITUMINOUS WEAR(SPWEB440E)
RECLAIMED BITUMINOUS - VARIABLE DEPTH

RADISSON ROAD (CR 52)

TURN LANE

18+54 - 23+96

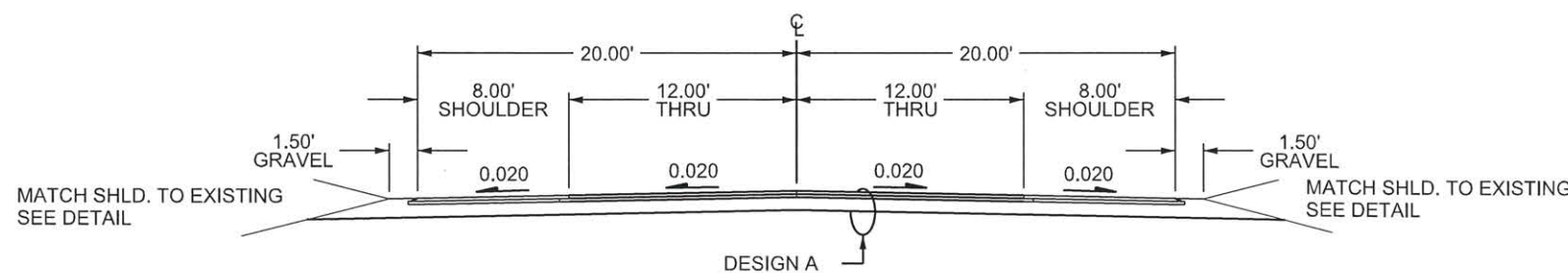
35+30 - 38+00



RURAL RECLAIM ROAD (CR 52)

PROPOSED ROAD - 8' SHDLR.

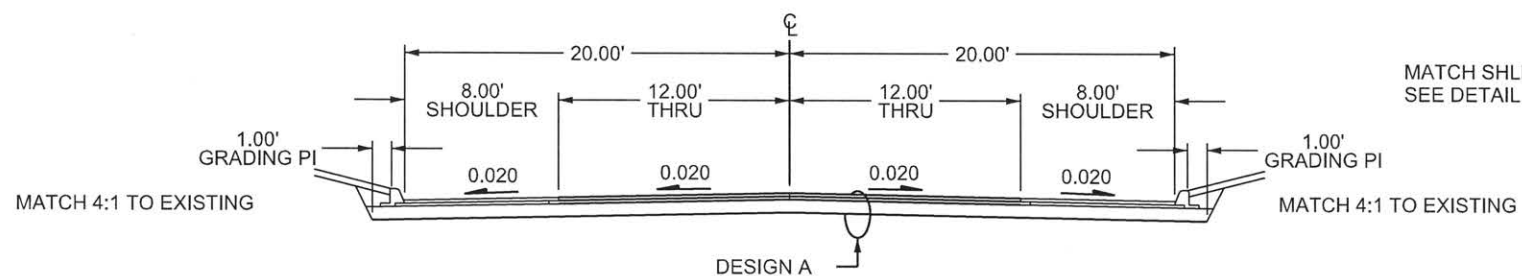
42+90 - 50+55



RURAL RECLAIM ROAD (CR 52)

PROPOSED ROAD - BIT CURB

40+65 - 42+90



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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: 4/20/14 LICENSE NO. 42757

DRAWN BY: RT DATE: 04/10/2014

DESIGN BY: RT DATE: 04/10/2014

CHECKED BY: DF DATE: 04/10/2014



**ANOKA COUNTY
HIGHWAY DEPT.**

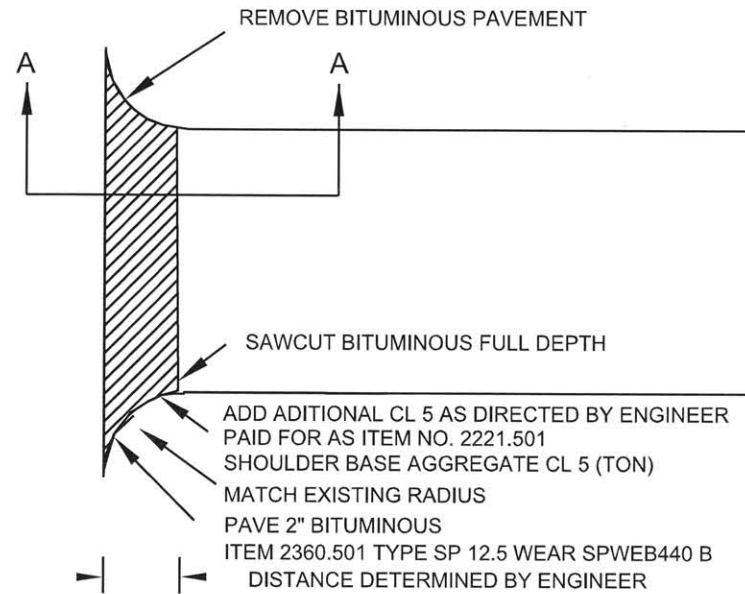
COUNTY PROJECT 14-51-52
COUNTY PROJECT 14-53-61

PROPOSED TYPICAL SECTION

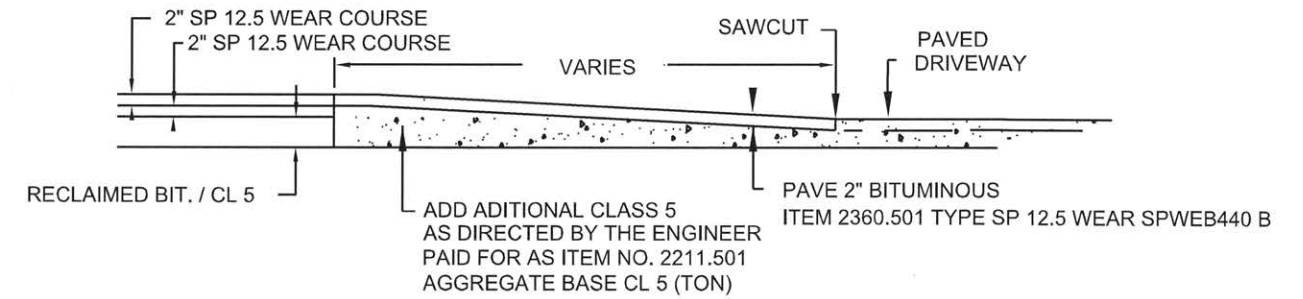
Sheet 4 of 16 Sheets

PAVED DRIVEWAYS

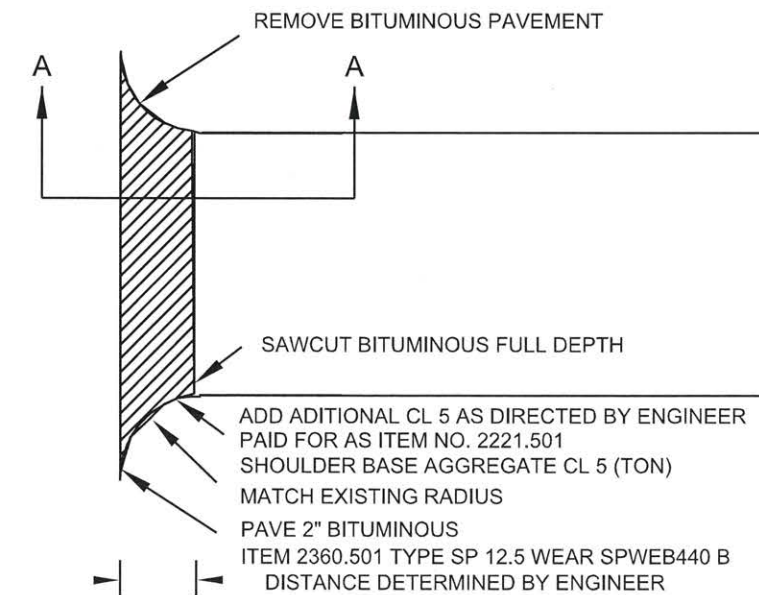
DETAILS



PAVED DRIVEWAY DETAILS A - A

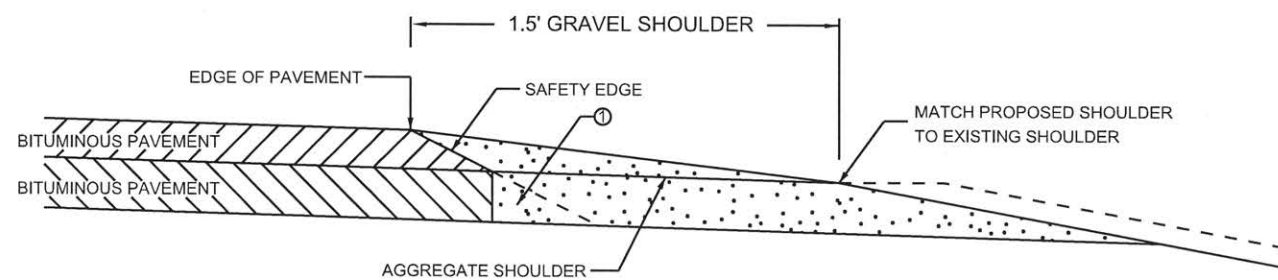


PAVED STREET APPROACH / DRIVEWAYS DETAIL



SHOULDER DETAIL

BITUMINOUS SAFETY EDGE
GRAVEL SHOULDER



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".

NOT TO SCALE

NO	DATE	BY	CKD	APPR	REVISION	04/10/2014	9:02:47 AM

NAME: P:\14-01-00\CR_61_(CR52-Xylite)\Base\PROPOSED\NORTL4_DETAILS.dgn

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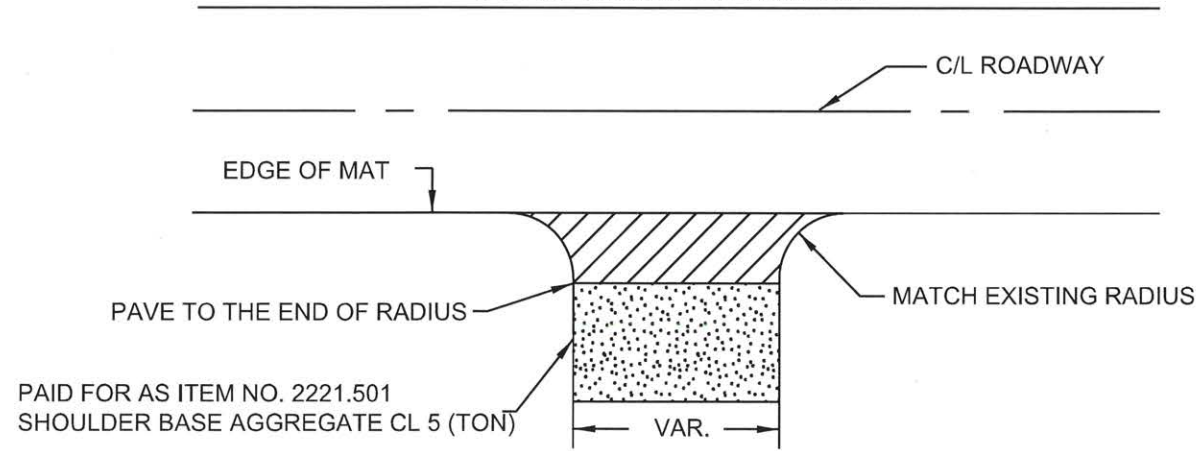


ANOKA COUNTY
 HIGHWAY DEPT.

COUNTY PROJECT 14-51-52
 COUNTY PROJECT 14-53-61

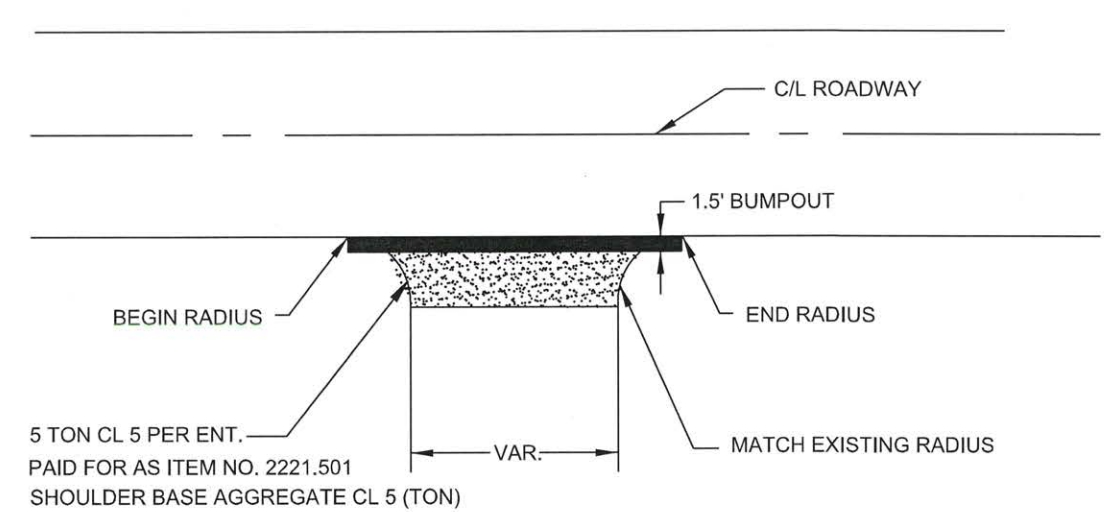
MISCELLANEOUS DETAILS
 Sheet 5 of 16 Sheets

UN-PAVED STREET APPROACHES

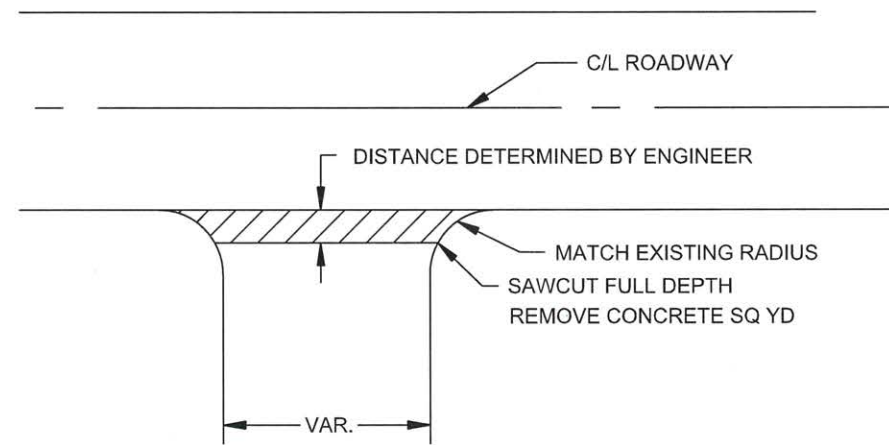


UNPAVED STREET APPROACHES, PAVED SEPERATE FROM MAINLINE,
PAID AS STREET APPROACHES.

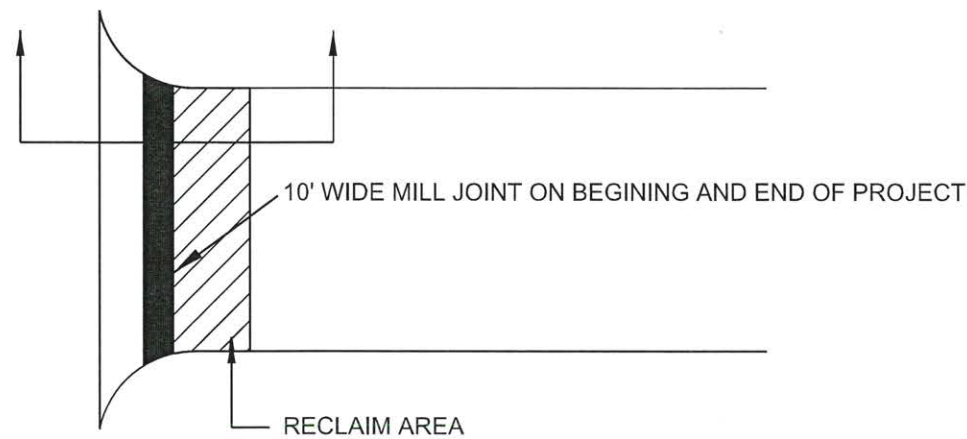
GRAVEL DR. WAYS AND FEILD ENT.



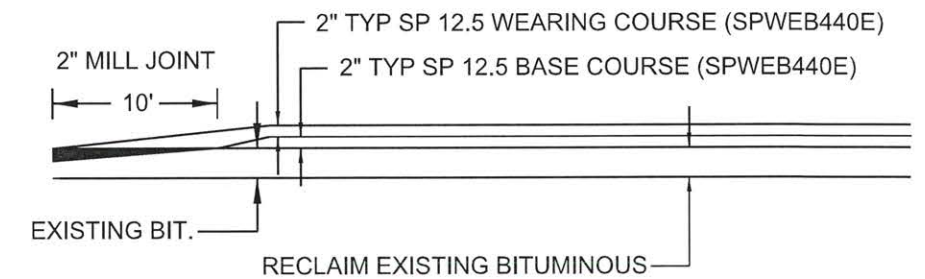
CONCRETE DR. WAYS



MAINLINE JOINT DETAIL



MAINLINE JOINT DETAIL



NOT TO SCALE

NO	DATE	BY	CKD	APPR	REVISION	04/10/2014	9:02:47 AM

NAME: P:\14-01-00\CR_61_(CR52-Xylite)\Base\PROPOSED\NORTL4_DETAILS.dgn

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 SIGNATURE: *Andrew Witter*
 DATE: 4/20/14 LICENSE NO. 42757

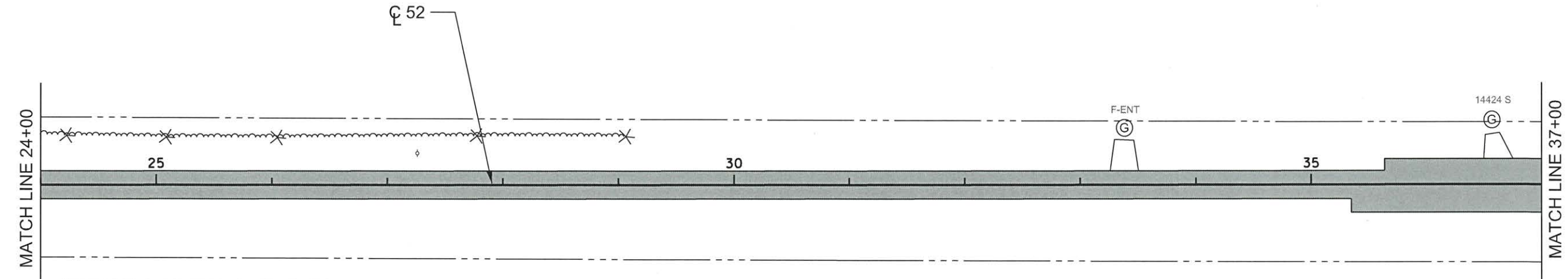
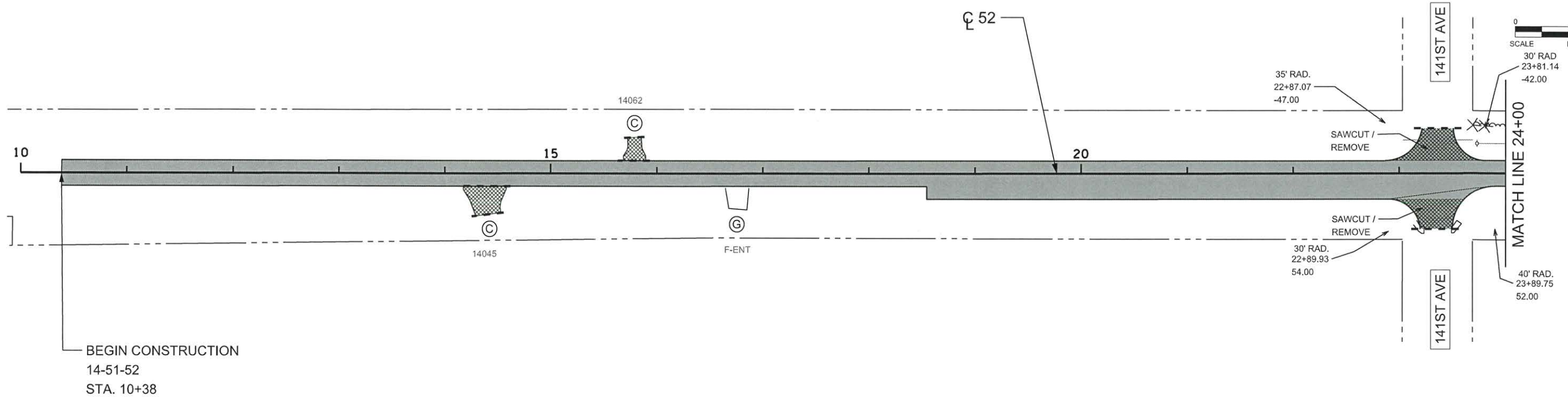
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ANOKA COUNTY
HIGHWAY DEPT.

COUNTY PROJECT 14-51-52
 COUNTY PROJECT 14-53-61

MISCELLANEOUS DETAILS
 Sheet 6 of 16 Sheets



CONSTRUCTION NOTES:

- (G) GRAVEL ENTRANCE
- (B) BITUMINOUS ENTRANCE
- (C) CONCRETE ENTRANCE

- MAINLINE RECLAIM
- STREET/DRIVEWAY REMOVAL
- SAWCUT
- SILT FENCE
- EXISTING R/W

NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME
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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: 4/10/14 LICENSE NO. 42757

DRAWN BY: RT DATE: 04/10/2014

DESIGN BY: RT DATE: 04/10/2014

CHECKED BY: DF DATE: 04/10/2014



ANOKA COUNTY
HIGHWAY DEPT.

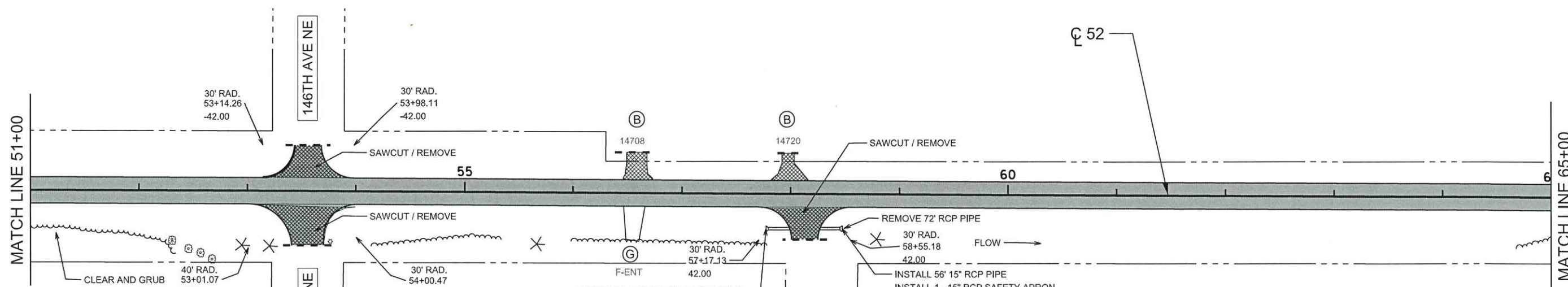
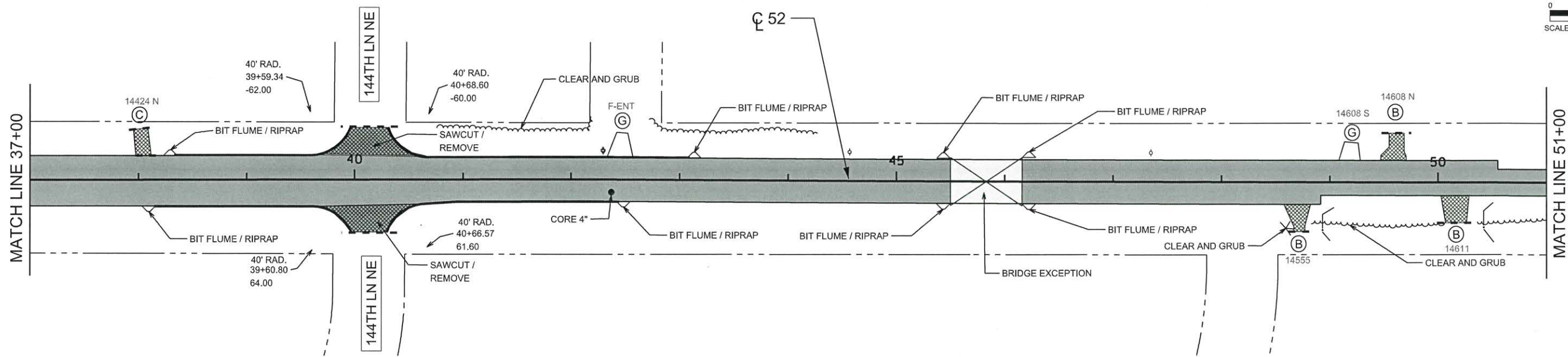
COUNTY PROJECT 14-51-52

COUNTY PROJECT 14-53-61

CONSTRUCTION PLAN

STA 10+38 TO 37+00

Sheet 7 of 16 Sheets



CONSTRUCTION NOTES:

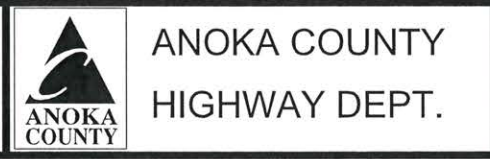
- (G) GRAVEL ENTRANCE
- (B) BITUMINOUS ENTRANCE
- (C) CONCRETE ENTRANCE
- [Hatched Box] MAINLINE RECLAIM
- [Cross-hatched Box] STREET/DRIVEWAY REMOVAL
- [Dashed Line] SAWCUT
- [Solid Line] SILT FENCE
- [Dotted Line] EXISTING R/W

NO	DATE	BY	CKD	APPR	REVISION	04/24/2014	10:45:03 AM
NAME: P:\14-01-00\CR_61_(CR52-Xylite)\Base\PROPOSED\NORTL15_PLAN.dgn							

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.

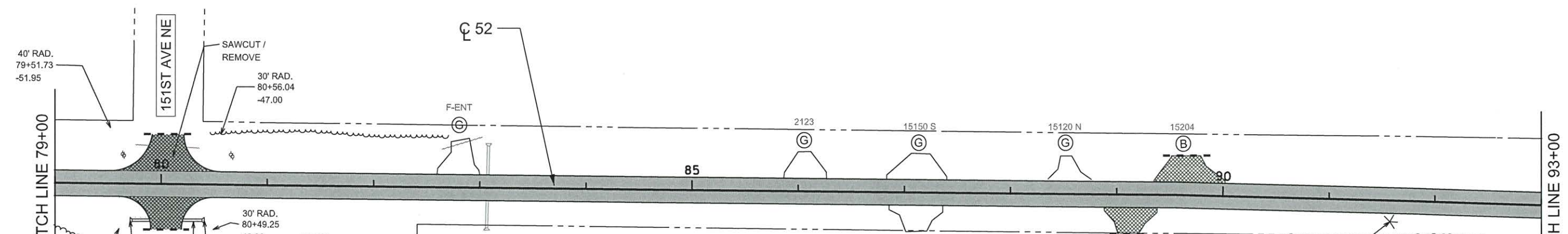
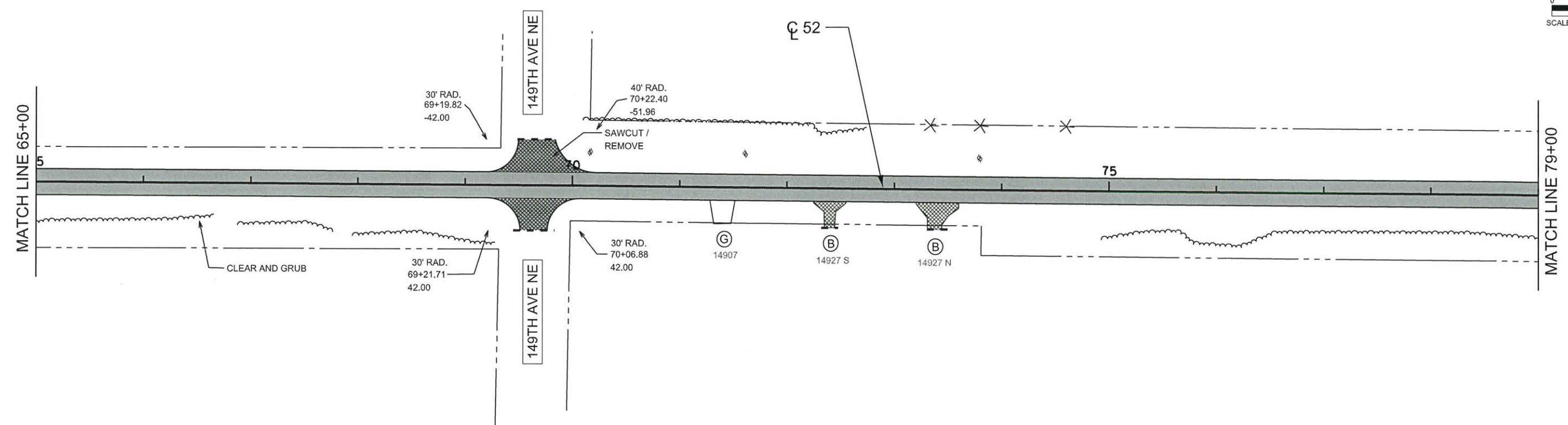
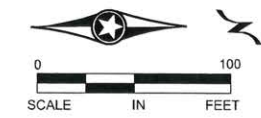
PRINT NAME: ANDREW WITTER
 SIGNATURE: *[Signature]*
 DATE: 4/20/14 LICENSE NO. 42757

DRAWN BY RT DATE 04/24/2014
 DESIGN BY RT DATE 04/24/2014
 CHECKED BY DF DATE 04/24/2014



COUNTY PROJECT 14-51-52
 COUNTY PROJECT 14-53-61

CONSTRUCTION PLAN
 STA 37+00 TO 65+00
 Sheet 8 of 16 Sheets



CONSTRUCTION NOTES:

- (G) GRAVEL ENTRANCE
- (B) BITUMINOUS ENTRANCE
- (C) CONCRETE ENTRANCE
- [Hatched Box] MAINLINE RECLAIM
- [Cross-hatched Box] STREET/DRIVEWAY REMOVAL
- [Dashed Line] SAWCUT
- [Solid Line] SILT FENCE
- [Solid Line] EXISTING R/W

INSTALL 1 - 15" RCP SAFETY APRON
STA. 79+69.4
OFFSET 34.5'
INV. 895.5

INSTALL 56" 15" RCP
INSTALL 1 - 15" RCP SAFETY APRON
STA. 80+42.20
OFFSET 34.5'
INV. 895.15

REMOVE 72" CMP PIPE

NO	DATE	BY	CHKD	APPR	REVISION	

NAME: P:\14-01-00\CR_61_(CR52-Xy\lite)\Base\PROPOSED\NORTL5_PLAN.dgn

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 WITTE

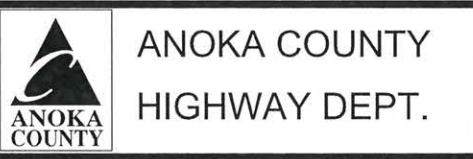
SIGNATURE: *Andrew Witte*

DATE: 4/20/14 LICENSE NO. 42757

DRAWN BY: RT DATE: 04/24/2014

DESIGN BY: RT DATE: 04/24/2014

CHECKED BY: DF DATE: 04/24/2014



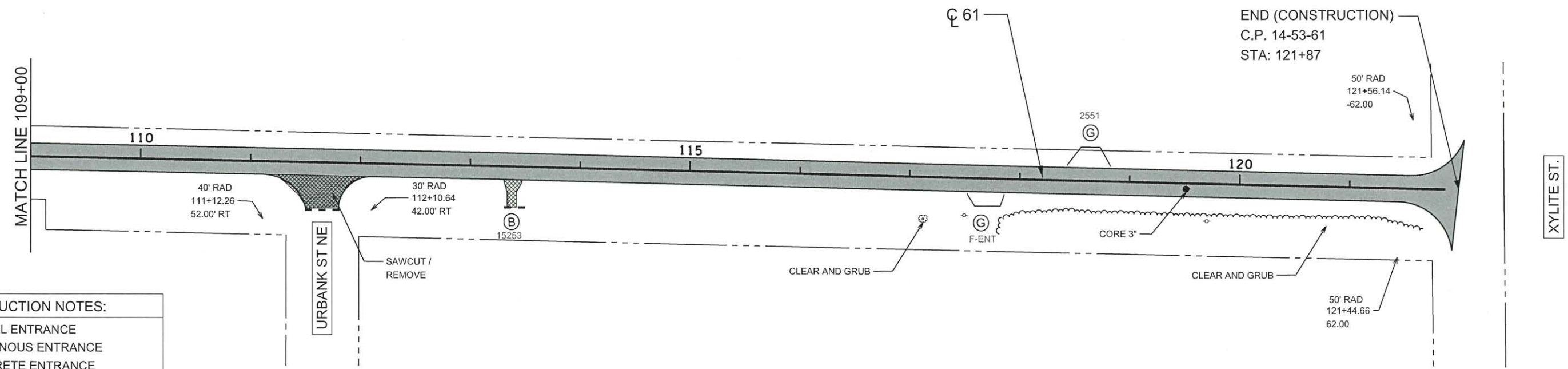
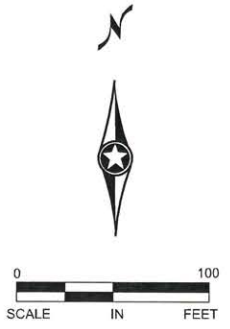
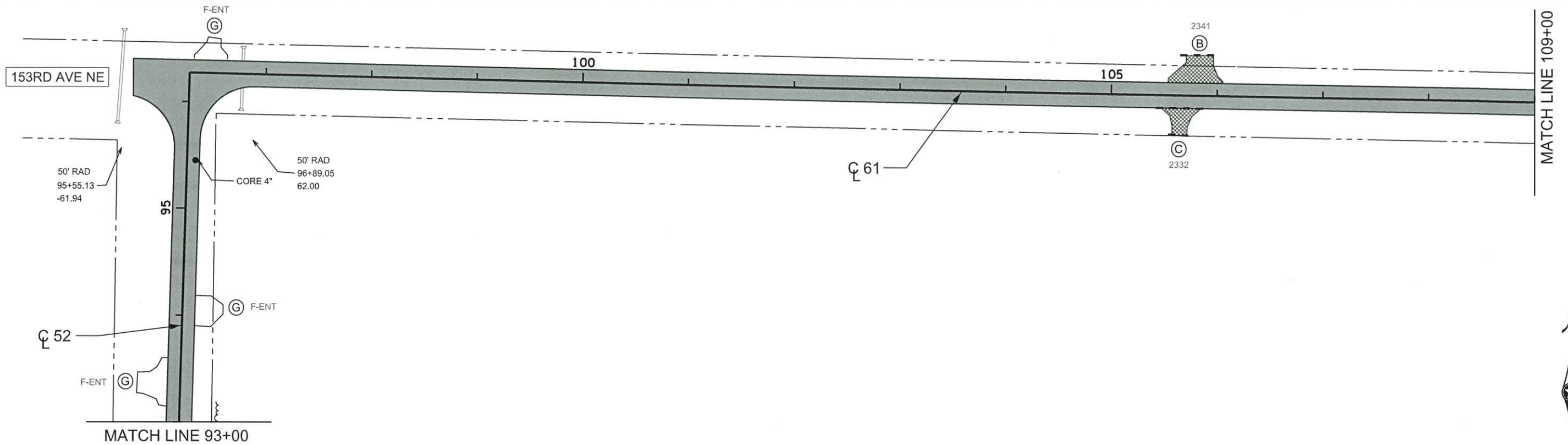
ANOKA COUNTY
HIGHWAY DEPT.

COUNTY PROJECT 14-51-52
COUNTY PROJECT 14-53-61

CONSTRUCTION PLAN

STA 65+00 TO 93+00

Sheet 9 of 16 Sheets

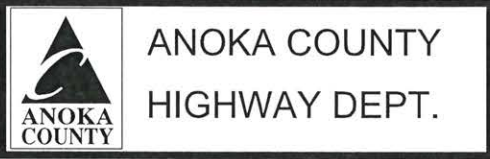


- CONSTRUCTION NOTES:**
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 - (C) CONCRETE ENTRANCE
 - MAINLINE RECLAIM
 - STREET/DRIVEWAY REMOVAL
 - SAWCUT
 - SILT FENCE
 - EXISTING R/W

NO	DATE	BY	CKD	APPR	REVISION	04/10/2014	9:02:51 AM
NAME: P:\14-01-00\CR_61_(CR52-Xylite)\Base\PROPOSED\NORTL15_PLAN.dgn							

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 PRINT NAME: ANDREW WITTEK
 SIGNATURE: *Andrew Wittek*
 DATE: 4/28/14 LICENSE NO. 42757

DRAWN BY: RT DATE: 04/10/2014
 DESIGN BY: RT DATE: 04/10/2014
 CHECKED BY: DF DATE: 04/10/2014



ANOKA COUNTY
 HIGHWAY DEPT.
 COUNTY PROJECT 14-51-52
 COUNTY PROJECT 14-53-61

CONSTRUCTION PLAN
 STA 93+00 TO 121+87.09
 Sheet 10 of 16 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 EPOLY 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.

PERFORMED THERMOPLASTIC:

THE PERFORMED THERMOPLASTIC MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ON CLEAN AND DRY SURFACES. SEE SPECIAL PROVISIONS FOR PERFORMED 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 APPLICAITON 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 FILM 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.

PAVEMENT MARKING TABULATION		
4" SOLID LINE WHITE - EPOXY PAINT	LIN FT	21750
4" BROKEN LINE WHITE - EPOXY PAINT	LIN FT	40
4" SOLID LINE YELLOW - EPOXY PAINT	LIN FT	5980
4" BROKEN LINE YELLOW - EPOXY PAINT	LIN FT	1530
4" DOUBLE LINE YELLOW - EPOXY PAINT	LIN FT	1995

SYMBOLS & MATERIALS LEGEND

■ CROSSWALK BLOCK WHITE PREFORMED THERMOPLASTIC

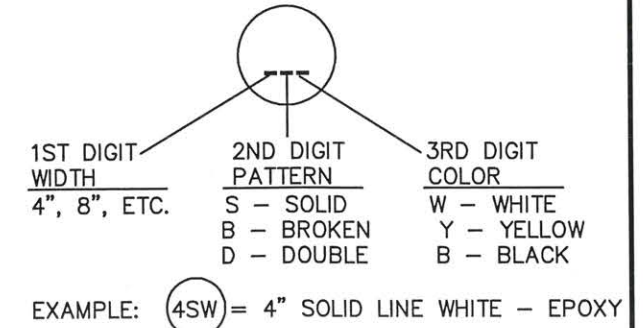
↩ PAVEMENT MESSAGE (LEFT ARROW) PREFORMED THERMOPLASTIC

STRIPING KEY

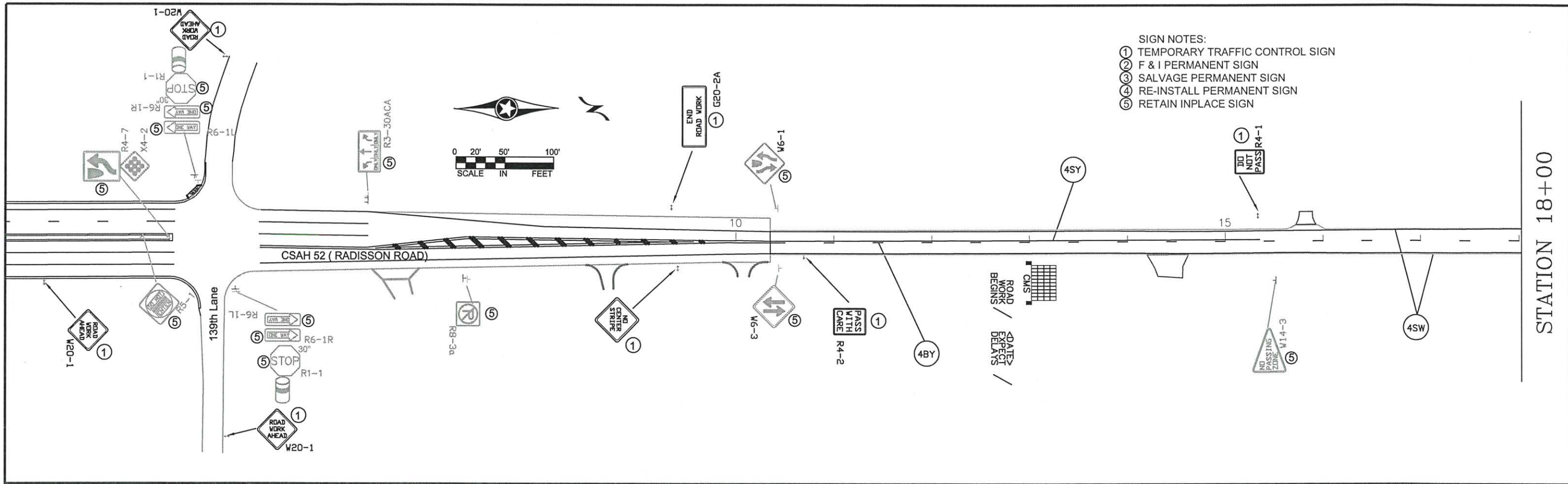
○ CIRCLE - EPOXY □ SQUARE PREFORMED THERMOPLASTIC

△ TRIANGLE - PAINT

⬠ PENTAGON - REMOVABLE PREFORMED PLASTIC MARKING

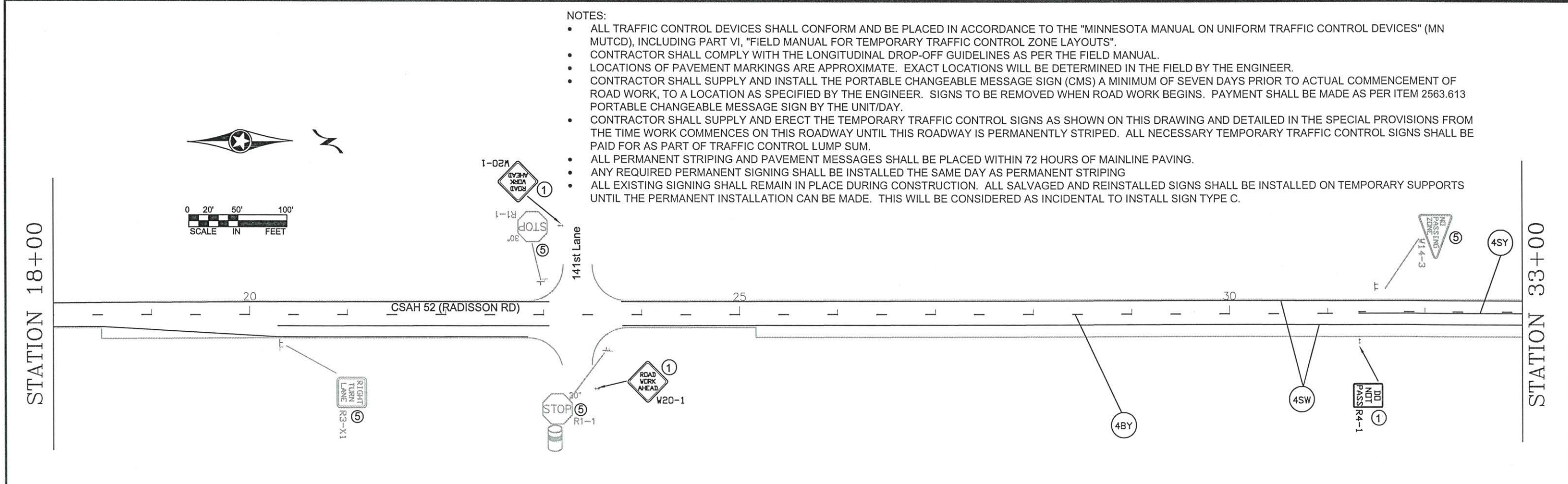


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NO	DATE	BY	CKD	APPR	REVISION																					
NAME: P:\13-01-00\CSAH 18\Bases\TRAFFIC\Perm pvmt mrkg guide notes_guidelines.dwg						ANOKA COUNTY																				



- SIGN NOTES:
- ① TEMPORARY TRAFFIC CONTROL SIGN
 - ② F & I PERMANENT SIGN
 - ③ SALVAGE PERMANENT SIGN
 - ④ RE-INSTALL PERMANENT SIGN
 - ⑤ RETAIN INPLACE SIGN

STATION 18+00



NOTES:

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STATION 33+00

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-617-19\base\Traffic\Curves from CSAH 18 to CSAH 22.dwg

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

PRINT NAME: ANDREW WITTER

SIGNATURE: *Andrew Witter*

DATE: 3/28/14 REG. NO. 42757

DRAWN BY: RLB DATE: 3/28/14

DESIGN BY: RLB DATE: 3/28/14

CHECKED BY: JR DATE: 3/28/14

ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

STATE AID PROJECT NO. _____

COUNTY PROJECT NO. 14-51-52/14-53-61

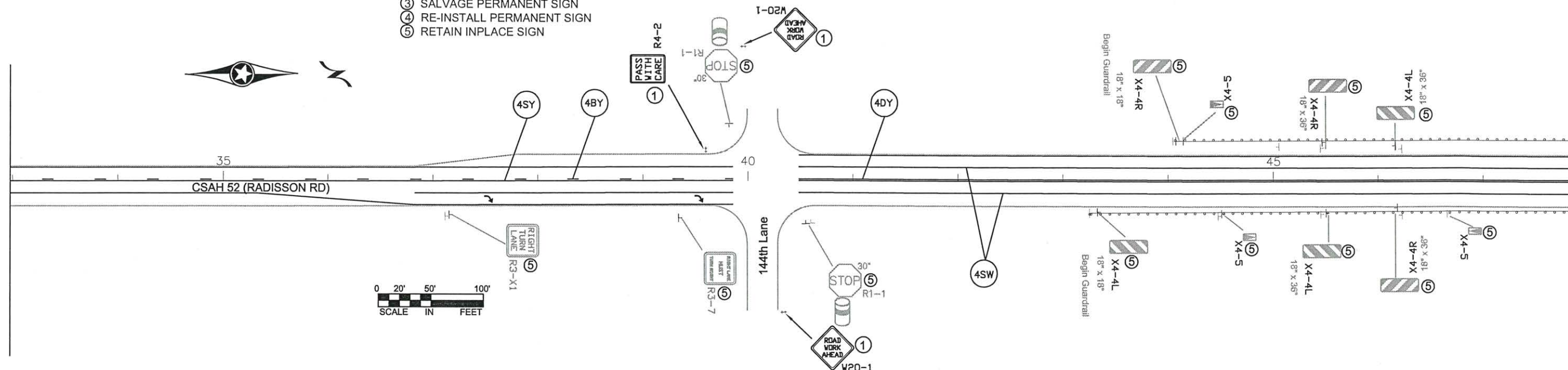
TEMPORARY SIGNING
PERMANENT SIGNING
AND STRIPING

Sheet 12 of 16 Sheets

STATION 33+00

STATION 48+00

- SIGN NOTES:
- ① TEMPORARY TRAFFIC CONTROL SIGN
 - ② F & I PERMANENT SIGN
 - ③ SALVAGE PERMANENT SIGN
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 - ⑤ RETAIN INPLACE SIGN

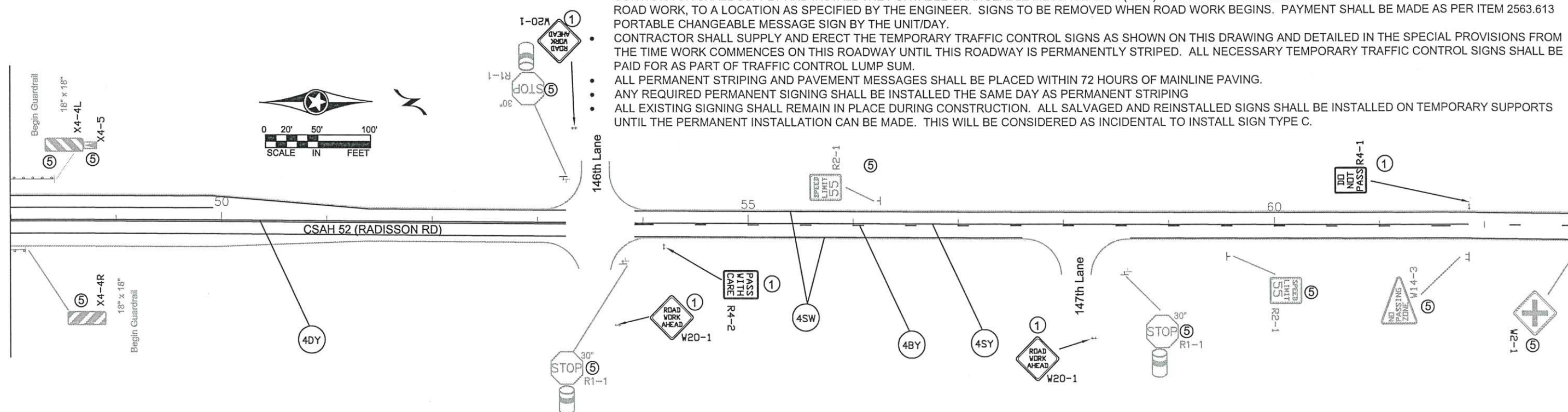


STATION 48+00

STATION 63+00

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

PRINT NAME: **ANDREW WITTER**

SIGNATURE: *[Signature]*

DATE: **4/28/14** REG. NO. **42757**

DRAWN BY: **RLB** DATE: **3/28/14**

DESIGN BY: **RLB** DATE: **3/28/14**

CHECKED BY: **JR** DATE: **3/28/14**



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

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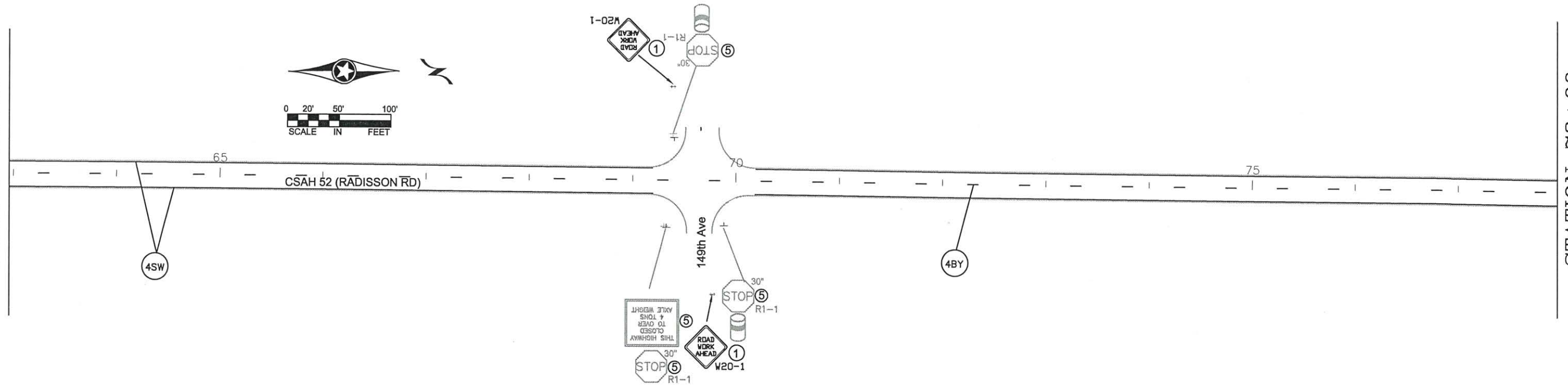
COUNTY PROJECT NO. **14-51-52/14-53-61**

TEMPORARY SIGNING
PERMANENT SIGNING
AND STRIPING

- SIGN NOTES:
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STATION 63+00

STATION 78+00

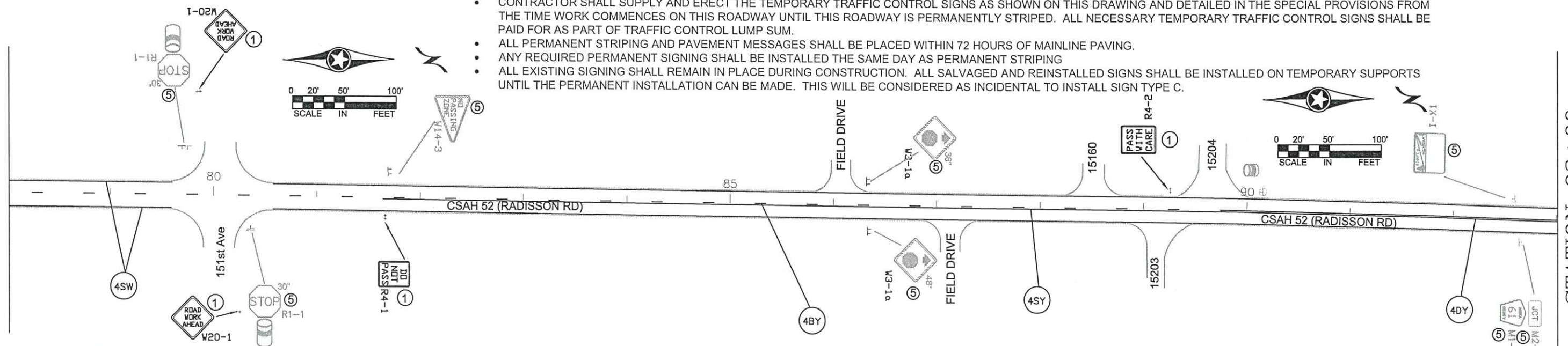


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STATION 78+00

STATION 93+00



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ANOKA COUNTY
HIGHWAY DEPT.

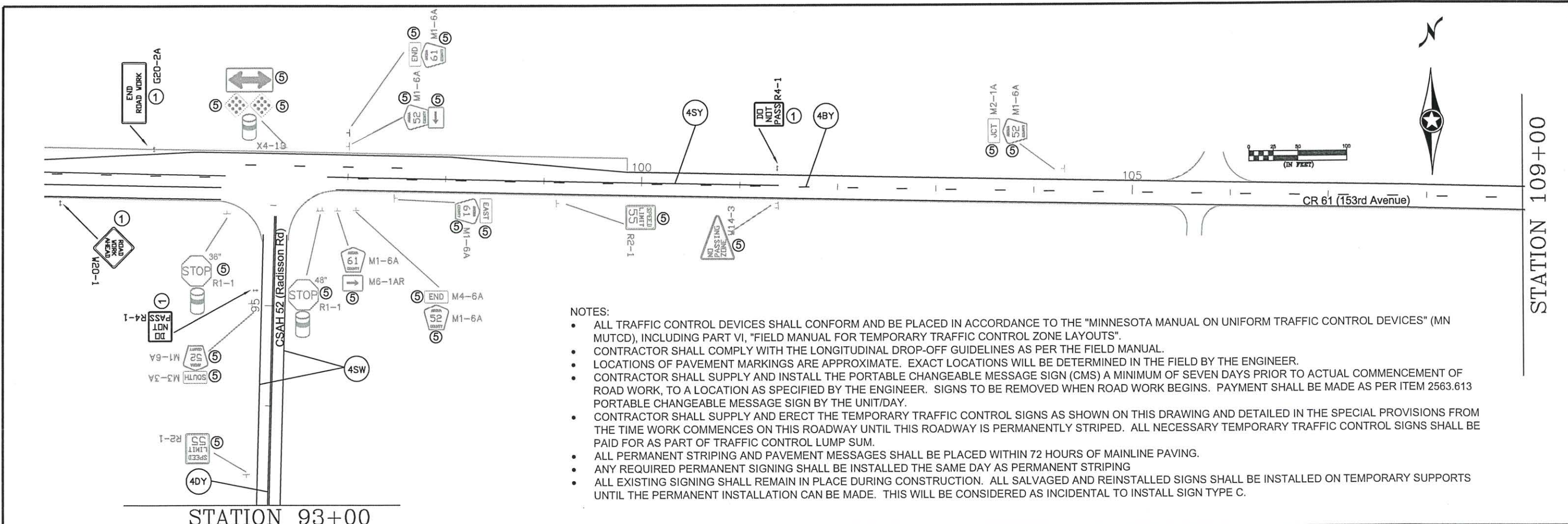
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STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 14-51-52/14-53-61

TEMPORARY SIGNING
PERMANENT SIGNING
AND STRIPING

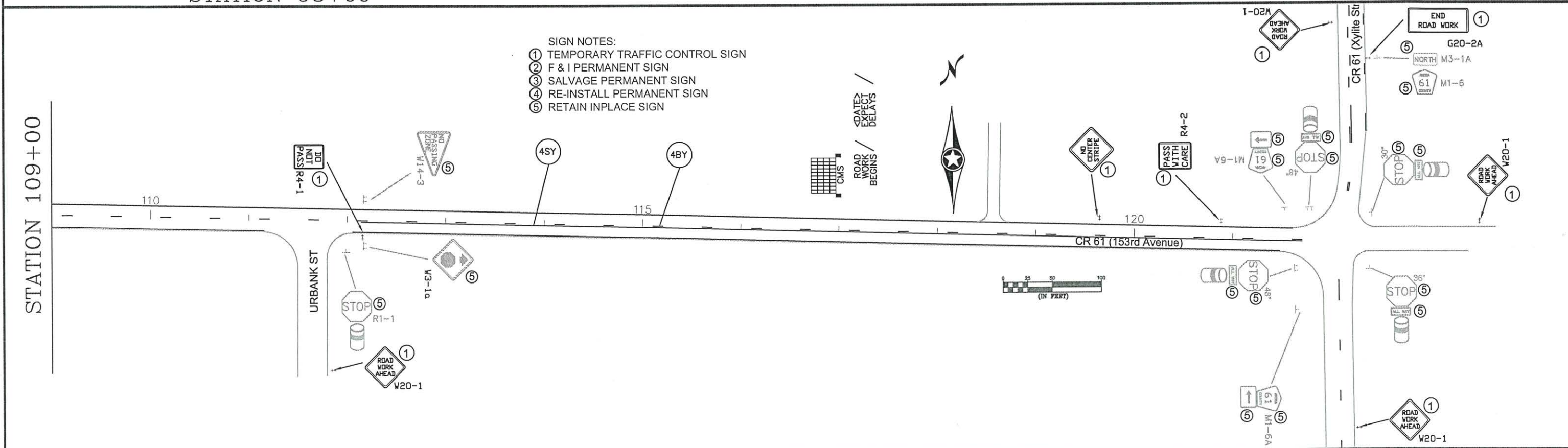
Sheet 14 of 16 Sheets

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-617-19\base\Traffic\Curves from CSAH 18 to CSAH 22.dwg



- NOTES:
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- SIGN NOTES:
- 1 TEMPORARY TRAFFIC CONTROL SIGN
 - 2 F & I PERMANENT SIGN
 - 3 SALVAGE PERMANENT SIGN
 - 4 RE-INSTALL PERMANENT SIGN
 - 5 RETAIN INPLACE SIGN

NO DATE BY CKD APPR REVISION NAME: P:\02-617-19\base\Traffic\Curves from CSAH 18 to CSAH 22.dwg					I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: ANDREW WITTER SIGNATURE: <i>[Signature]</i> DATE: 4/20/14 REG. NO. 42757		DRAWN BY: RLB DATE: 3/28/14 DESIGN BY: RLB DATE: 3/28/14 CHECKED BY: JR DATE: 3/28/14		ANOKA COUNTY HIGHWAY DEPT.		STATE PROJECT NO. _____ STATE AID PROJECT NO. _____ STATE AID PROJECT NO. _____ COUNTY PROJECT NO. 14-51-52/14-53-61		TEMPORARY SIGNING PERMANENT SIGNING AND STRIPING Sheet 15 of 16 Sheets	
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TEMPORARY TRAFFIC CONTROL SIGNS

M.U.T.C.D. CODE	SIZE	PANEL AREA FT. ²	INSERT	QUANTITY		MOUNTING HEIGHT TO PAVEMENT EDGE FT.
					No. POST	
W8-12	48" x 48"	16.00		2	2	7.0'
R4-1	24" x 30"	5.00		7	1	7.0'
R4-2	24" x 30"	5.00		5	1	7.0'
G20-2A	48" x 24"	8.00		3	2	7.0'
W8-1A	48" x 48"	16.00		AS NEEDED		
W8-1A	48" x 48"	16.00		AS NEEDED		
W8-8	48" x 48"	16.00		AS NEEDED		
W8-9	48" x 48"	16.00		AS NEEDED		
	48" x 48"	16.00		AS NEEDED		
W8-11	48" x 48"	16.00		AS NEEDED		
W20-1	48" x 48"	16.00		AS NEEDED (ESTIMATED 19)		
CMS sign to be installed a minimum of seven days prior to actual commencement of road work. Signs to be removed when road work begins.				2		

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.
- ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- ANY REQUIRED PERMANENT SIGNING SHALL BE INSTALLED THE SAME DAY AS PERMANENT STRIPING
- ALL EXISTING SIGNING SHALL REMAIN IN PLACE DURING CONSTRUCTION. ALL SALVAGED AND REINSTALLED SIGNS SHALL BE INSTALLED ON TEMPORARY SUPPORTS UNTIL THE PERMANENT INSTALLATION CAN BE MADE. THIS WILL BE CONSIDERED AS INCIDENTAL TO INSTALL SIGN TYPE C.

CHANGEABLE MESSAGE BOARD - MESSAGE SEQUENCE LAYOUT

		R	O	A	D		
		W	O	R	K		
		B	E	G	I	N	S

	<	D	A	T	E	>	
		E	X	P	E	C	T
		D	E	L	A	Y	S

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\02-617-19\base\Traffic\Curves from CSAH 18 to CSAH 22.dwg

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: ANDREW WITTER
 SIGNATURE:
 DATE: 4/28/14 REG. NO. 42757

DRAWN BY: RLB DATE 3/28/14
 DESIGN BY: RLB DATE 3/28/14
 CHECKED BY: JR DATE 3/28/14



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 14-51-52/14-53-61

TRAFFIC CONTROL
 QUANTITY