

STATEMENT OF ESTIMATED QUANTITIES

Table with 5 columns: Notes, Item Number, ITEM DESCRIPTION, Unit, TOTAL PROJECT QUANTITIES ESTIMATED. Lists various construction items like mobilization, paving, excavation, and materials.

CONSTRUCTION NOTES

Table with 2 columns: Item Number, CONSTRUCTION NOTES. Contains 22 numbered notes regarding details, removal, and installation of various components.

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

MNDOT STANDARD PLATES

Table with 2 columns: PLATE NO., DESCRIPTION. Lists plates 7100H, 8000K, and 9350C with their respective descriptions.

SUPERELEVATION CORRECTION TAB

Table with 5 columns: STATION, POINT, RTL GRADE, LEFT GRADE, RIGHT GRADE. Shows superlevation correction data for various stationing points.

BITUMINOUS STREET SUMMARY

Table with 3 columns: LOCATION, BITUMINOUS (2360 TYPE SP 12.5 WEAR (4,C) and TON), NOTES. Summarizes bituminous quantities for various street locations.

BITUMINOUS SUMMARY NOTES:

[1] QUANTITY ESTIMATED FOR 2 LIFTS

BASIS OF PLANNED QUANTITIES

Table with 3 columns: Item Number, DESCRIPTION, QUANTITY. Lists planned quantities for items like tack coat, aggregate base, and paving materials.

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: GERALD J. AUGER, JR.

SIGNATURE: [Signature]

DATE: 12-08-2023 LICENSE NO. 26511

DRAWN BY DD DATE 01/09/2024

DESIGN BY DD DATE 01/09/2024

CHECKED BY CO DATE 01/09/2024



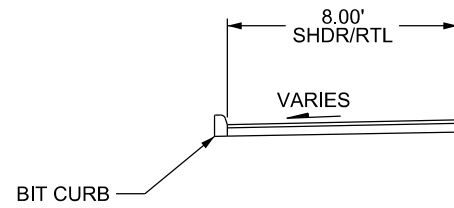
ANOKA COUNTY HIGHWAY DEPT.

STATE AID PROJECT 002-683-007

STATEMENT OF ESTIMATED QUANTITIES

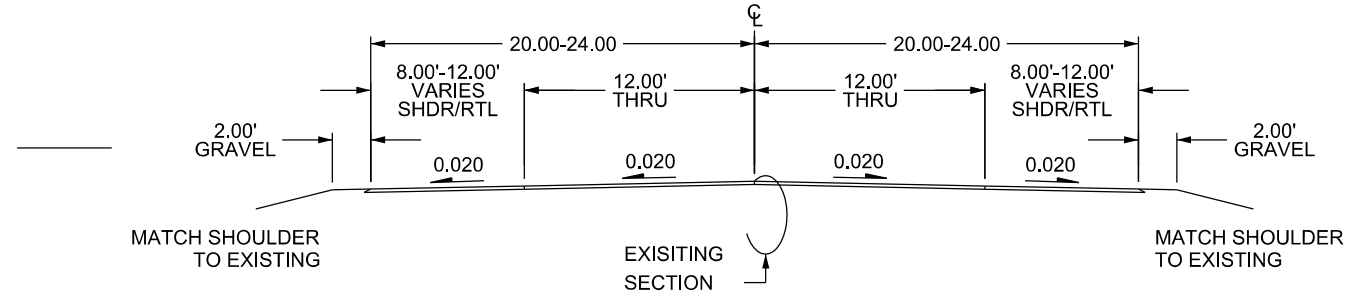
Sheet 2 of 12 Sheets

EXISTING CURB SECTION
13+24.00 - 14+69.00



CSAH 83 - BAUGH ST
(EXISTING) SECTION

11+19.00 - 64+48.00

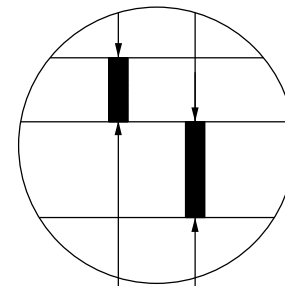
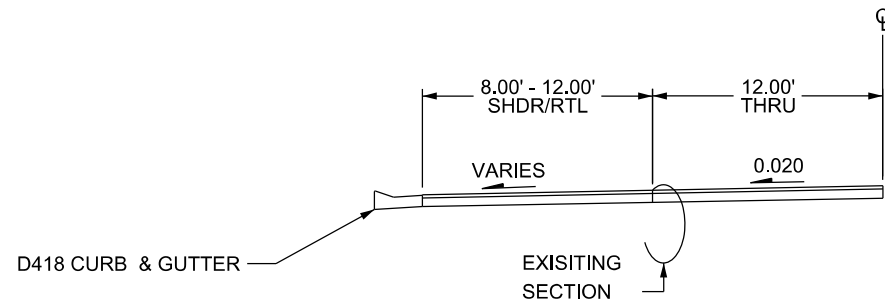


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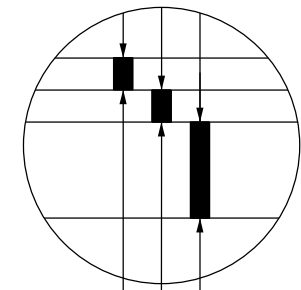
DESIGN R RECLAIM SECTION

EXISTING CURB SECTION

57+73.59 - 60+71.40




6.75" EXISTING BITUMINOUS
EXISTING AGGREGATE BASE

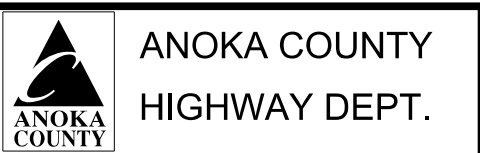


2.0" BITUMINOUS WEAR (SPWEB440C)
2.0" BITUMINOUS WEAR (SPWEB440C)
RECLAIMED BITUMINOUS

NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	8:06:59 AM
NAME: P:\24-01-00\CSAH_83_(173RD AVE-CR 64)\Base\Proposed\TYPICALS.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: GERALD J. AUGER JR.
 SIGNATURE: 
 DATE: 12-08-2023 LICENSE NO. 26511

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 DESIGN BY DD DATE 12/15/2023
 CHECKED BY CO DATE 12/15/2023



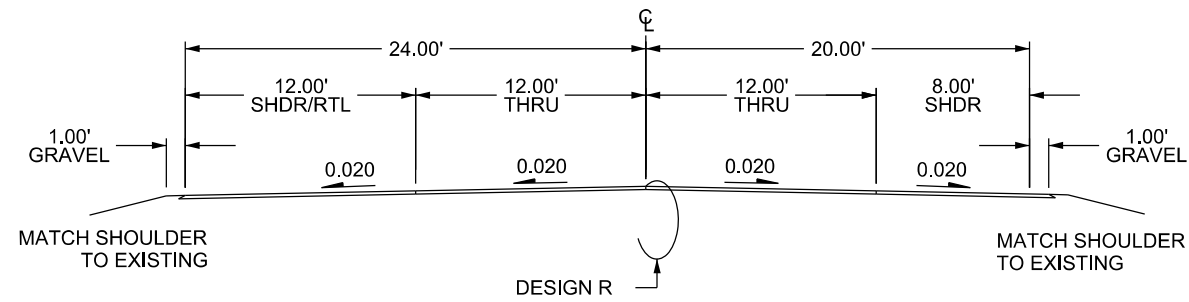
STATE AID PROJECT 002-683-007

TYPICAL SECTIONS
 Sheet 3 of 12 Sheets

CSAH 83 - BAUGH ST

(PROPOSED) SECTION

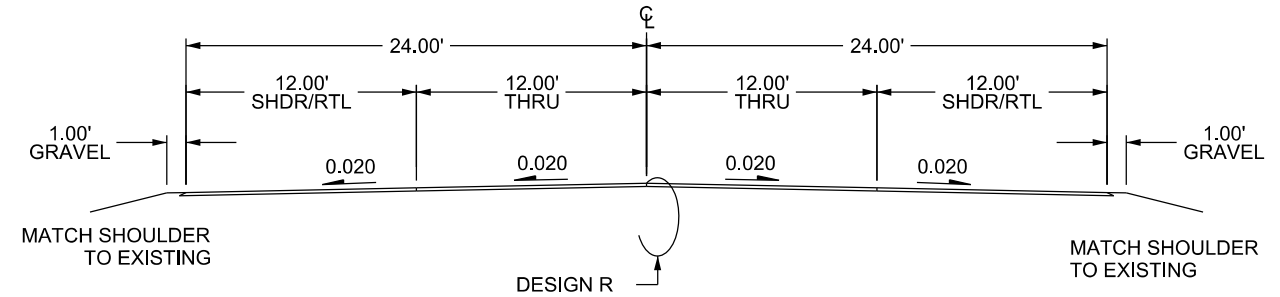
11+19.00 - 16+33.00
34+42.50 - 39+40.00
46+48.00 - 50+74.00
64+13.00 - 64+48.00



CSAH 83 - BAUGH ST

(PROPOSED) SECTION

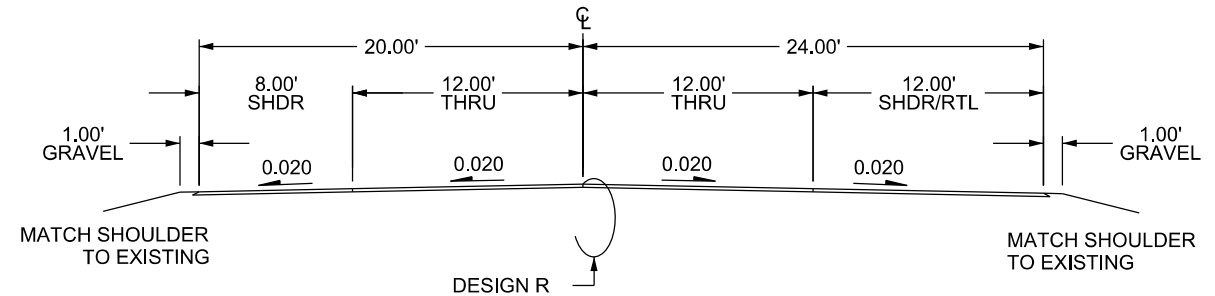
22+34.50 - 34+42.50



CSAH 83 - BAUGH ST

(PROPOSED) SECTION

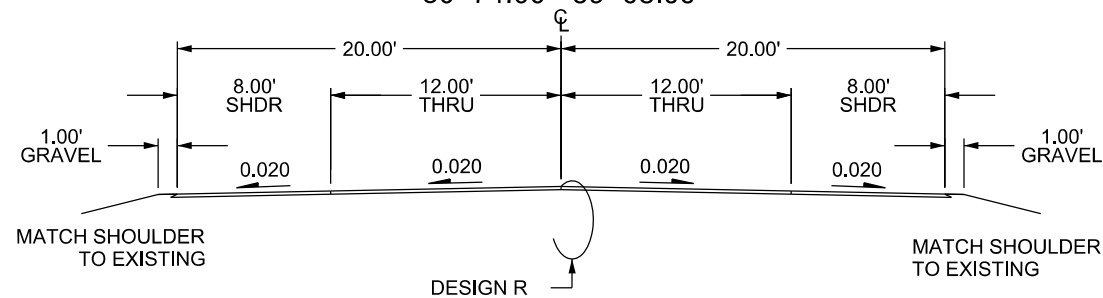
41+43.50 - 46+48.00
59+08.00 - 64+13.00



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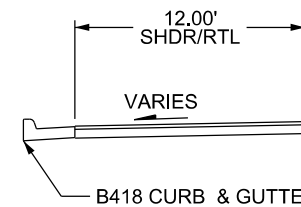
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39+40.00 - 41+43.50
50+74.00 - 59+08.00



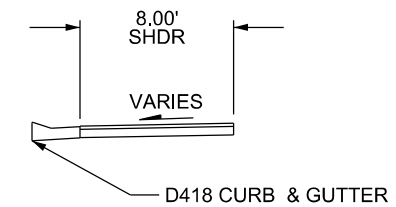
PROPOSED CURB SECTION

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PROPOSED CURB SECTION

57+73.59 - 60+71.40



NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	8:07:00 AM
NAME: P:\24-01-00\CSAH_83_(173RD AVE-CR 64)\Base\Proposed\TYPICALS.dgn							

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CHECKED BY CO DATE 12/15/2023



ANOKA COUNTY
HIGHWAY DEPT.

STATE AID PROJECT 002-683-007

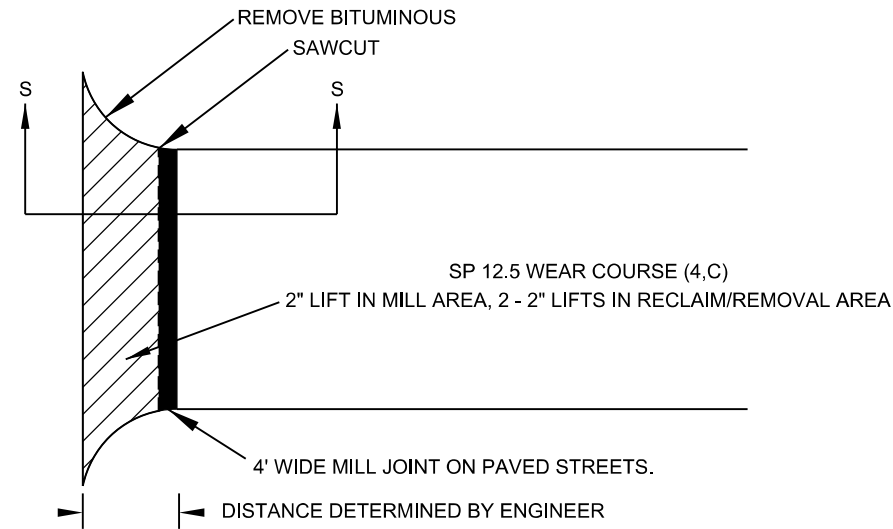
TYPICAL SECTIONS

Sheet 4 of 12 Sheets

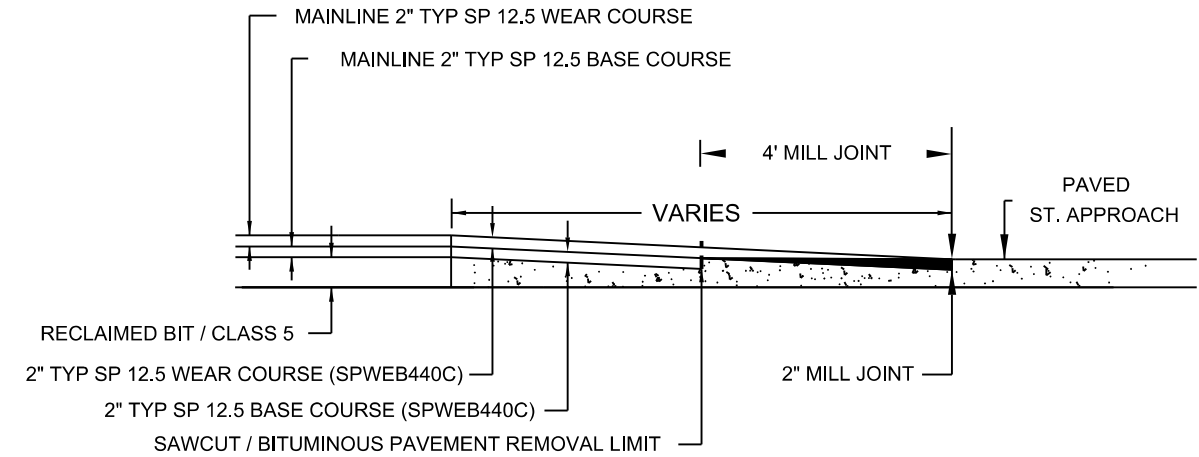
STREET APPROACH DETAIL (RECLAIM)

BITUMINOUS STREET

PLAN VIEW

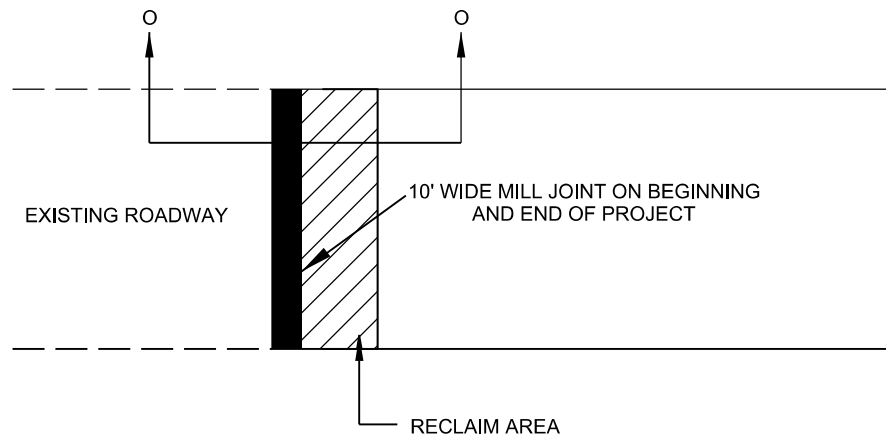


SECTION S - S

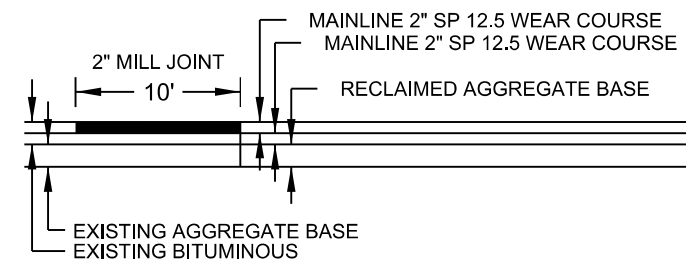


MAINLINE JOINT DETAIL (RECLAIM)

PLAN VIEW



SECTION O - O



NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	8:07:00 AM
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ANOKA COUNTY

HIGHWAY DEPT.

STATE AID PROJECT 002-683-007

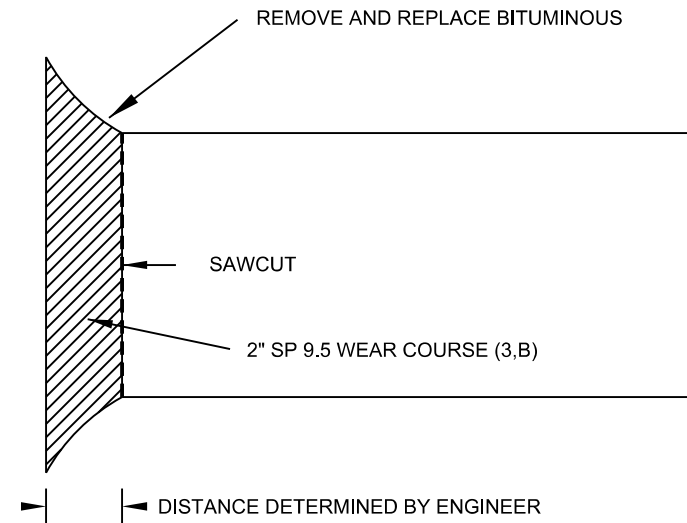
DETAILS

Sheet 5 of 12 Sheets

RECLAIM AREA - DRIVEWAY DETAIL

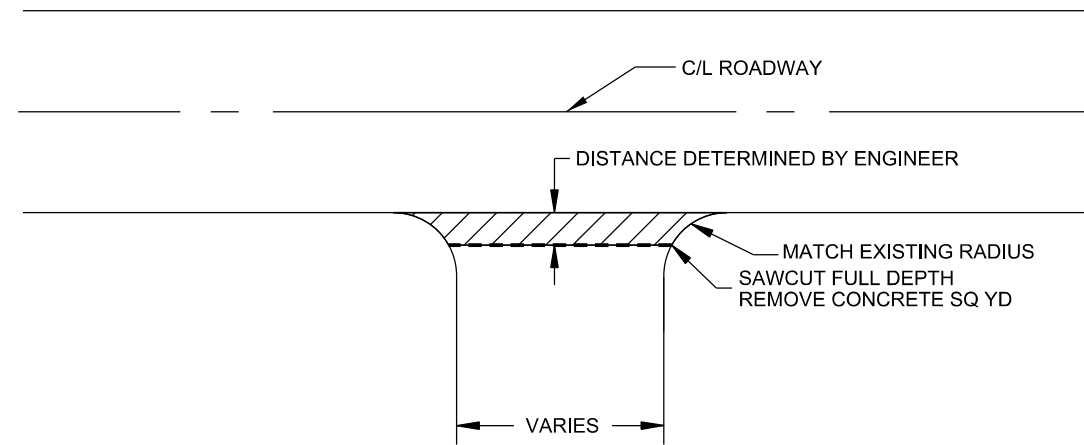
BITUMINOUS

PLAN VIEW



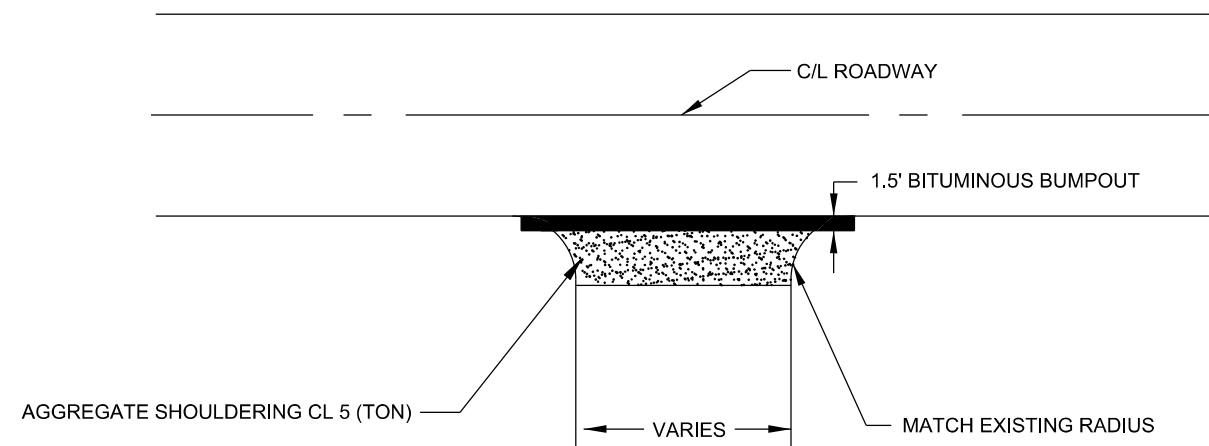
DRIVEWAY DETAIL

CONCRETE DRIVEWAY



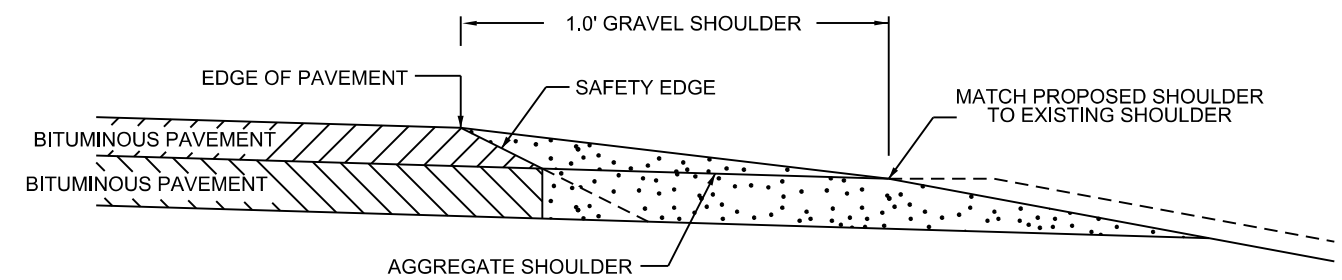
DRIVEWAY DETAIL

GRAVEL / FIELD ENTRANCE



SHOULDER DETAIL

BITUMINOUS SAFETY EDGE
GRAVEL SHOULDER



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

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

NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	8:07:01 AM
NAME: P:\24-01-00\CSAH_83_(173RD AVE-CR 64)\Base\Proposed\DETAILS.dgn							

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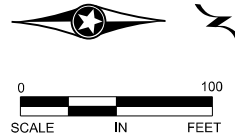
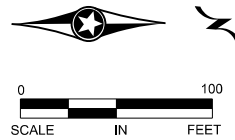
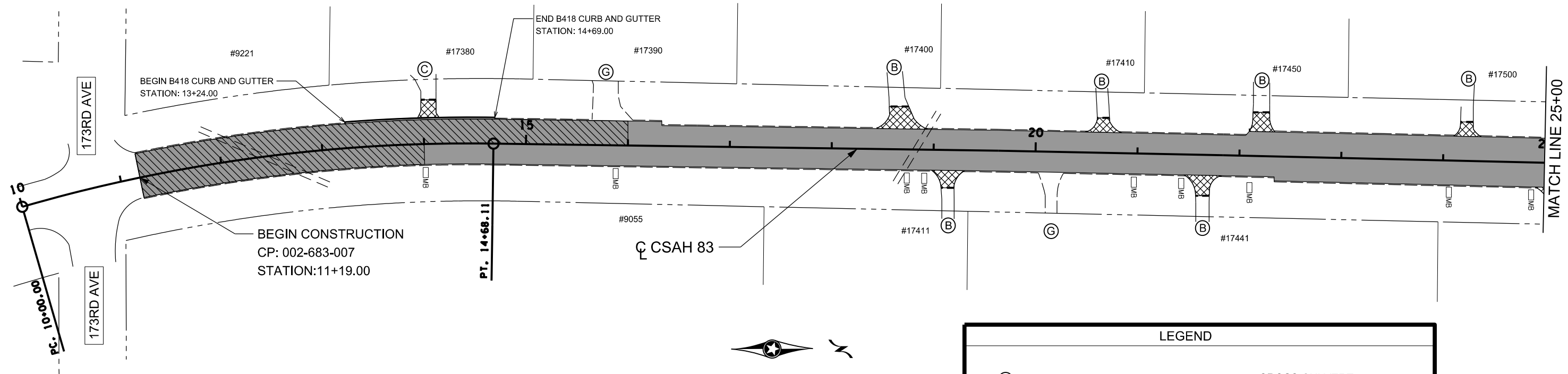
CHECKED BY CO DATE 12/15/2023

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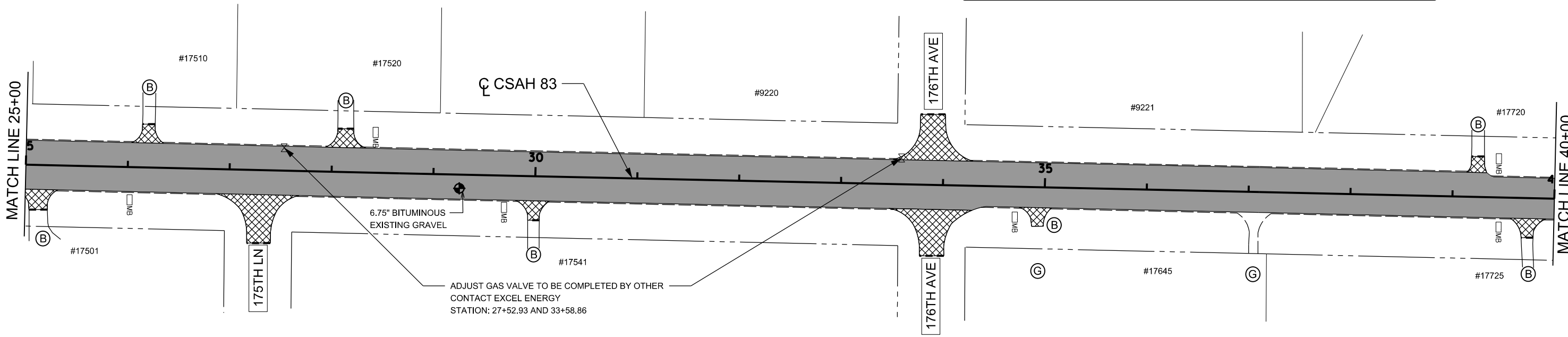
DETAILS

Sheet 6 of 12 Sheets



LEGEND

(B)	BITUMINOUS	---	CROSS CULVERT
(C)	CONCRETE	[Solid Grey Box]	MAINLINE (RECLAIM)
(G)	GRAVEL	[Cross-hatched Box]	REMOVE & REPLACE PAVEMENT
⊕	CORE LOCATION	[Diagonal-hatched Box]	SUPER TRANSITION AREA
---	SAWCUT	---	R / W
⊗	GAS VALVE		



NO	DATE	BY	CKD	APPR	REVISION		
	12/15/2023					8:07:04 AM	

NAME: P:\24-01-00\CSAH_83_(173RD AVE-CR 64)\Base\Proposed\CP1.dgn

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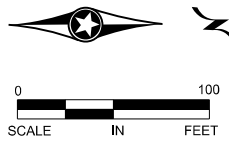
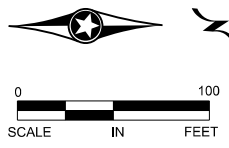
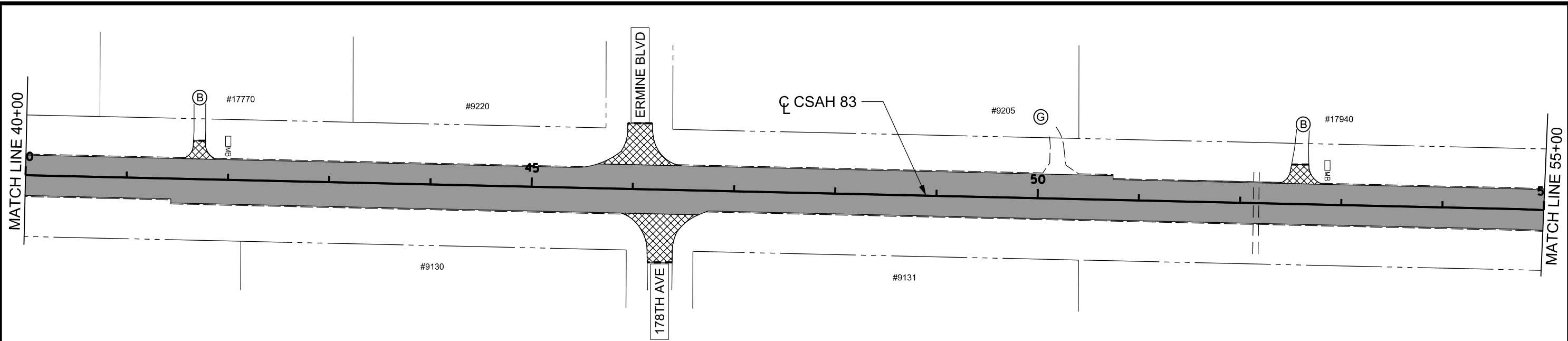
**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-683-007

CONSTRUCTION PLAN

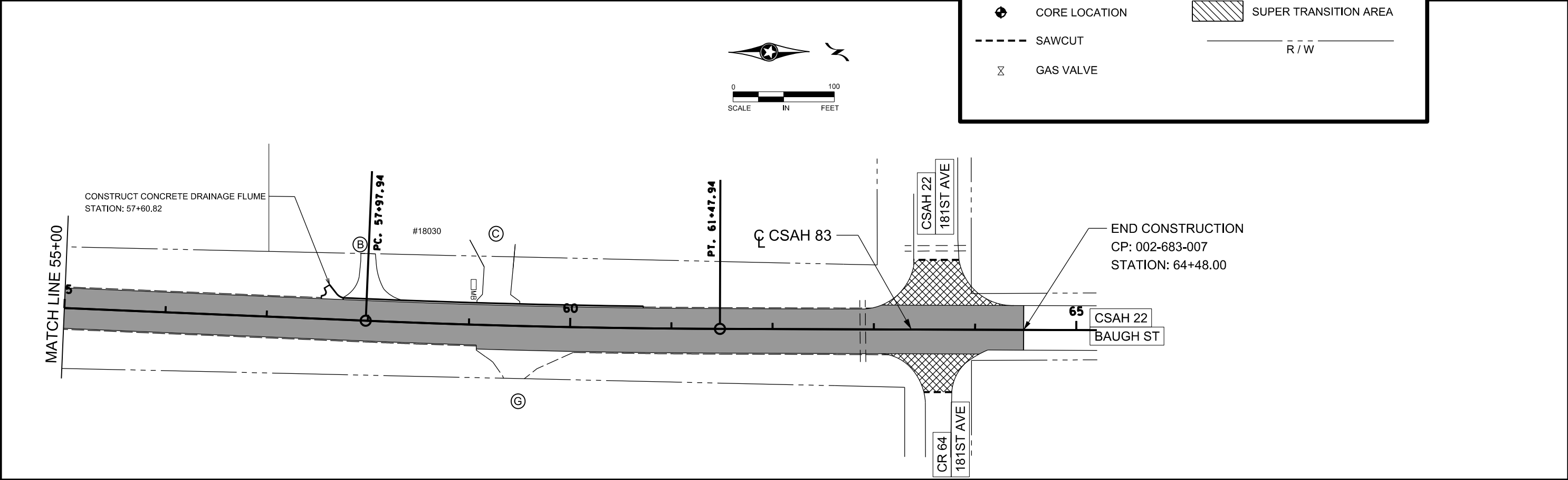
STA 11+19.00 TO 40+00.00

Sheet 7 of 12 Sheets



LEGEND

(B)	BITUMINOUS	---	CROSS CULVERT
(C)	CONCRETE	[Solid Grey]	MAINLINE (RECLAIM)
(G)	GRAVEL	[Cross-hatch]	REMOVE & REPLACE PAVEMENT
⊕	CORE LOCATION	[Diagonal Hatch]	SUPER TRANSITION AREA
---	SAWCUT	---	R / W
⊗	GAS VALVE		



NO	DATE	BY	CKD	APPR	REVISION	

NAME: P:\24-01-00\CSAH_83_(173RD AVE-CR 64)\Base\Proposed\CP2.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.

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**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-683-007

CONSTRUCTION PLAN

STA 40+00.00 TO 64+48.00

Sheet 8 of 12 Sheets

**PERMANENT PAVEMENT MARKING PLAN
NOTES & GUIDELINES**

GENERAL INFORMATION:

1. 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.
2. 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.
3. 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.
4. PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.
5. 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.

MULTI-COMPONENT (MULTI-COMP):

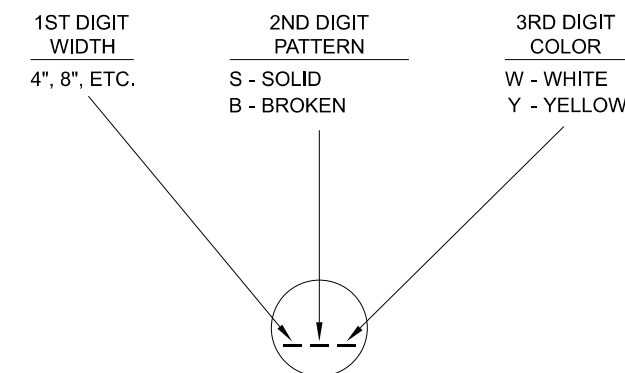
1. THE ROAD SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER JUST PRIOR TO APPLICATION. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER. NEW PORTLAND CEMENT CONCRETE SURFACES 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 MULTI-COMP PAVEMENT MARKINGS.
2. THE MULTI-COMP MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING. GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE MULTI-COMP LINE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.
3. A MULTI-COMP LINE SHALL BE APPLIED WITH A MINIMUM THICKNESS OF 20 MILS (WET) AND 4" WIDE. GLASS BEADS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS
4. PAVEMENT MARKINGS SHALL ONLY BE APPLIED IN SEASONABLE WEATHER WHEN AIR AND PAVEMENT SURFACE TEMPERATURES ARE 40° 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.

PERMANENT STRIPING

PERMANENT PAVEMENT MARKING TABULATION			
ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	
		WHITE	YELLOW
4" SOLID LINE MULTI-COMP	LIN FT	12306	1135
4" SOLID DOUBLE LINE MULTI-COMP	LIN FT		615
4" BROKEN LINE MULTI-COMP	LIN FT		923

PAVEMENT MARKING SYMBOLS & MATERIALS LEGEND

— — BROKEN LINE - 50' CYCLE (10' LINE, 40' GAP)



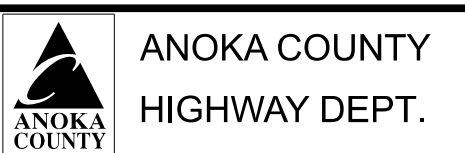
EXAMPLE: (4SW) = 4" SOLID LINE WHITE MULTI-COMP

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\24-01-00\CSAH_83_(173RD AVE-CR 64)\Base\Traffic\CSAH 83 - Signing & Striping

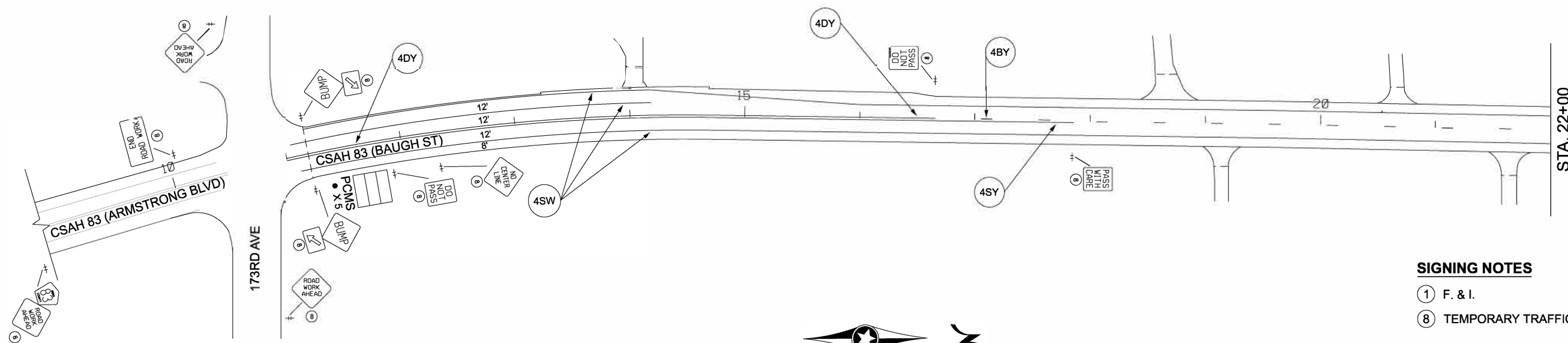
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: SEAN R. THIEL
 SIGNATURE: *Sean R. Thiel*
 DATE: 1/16/2024 LICENSE NO. 45129

DRAWN BY ALS DATE 11/07/23
 DESIGN BY ALS DATE 11/07/23
 CHECKED BY _____ DATE _____

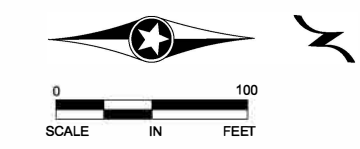
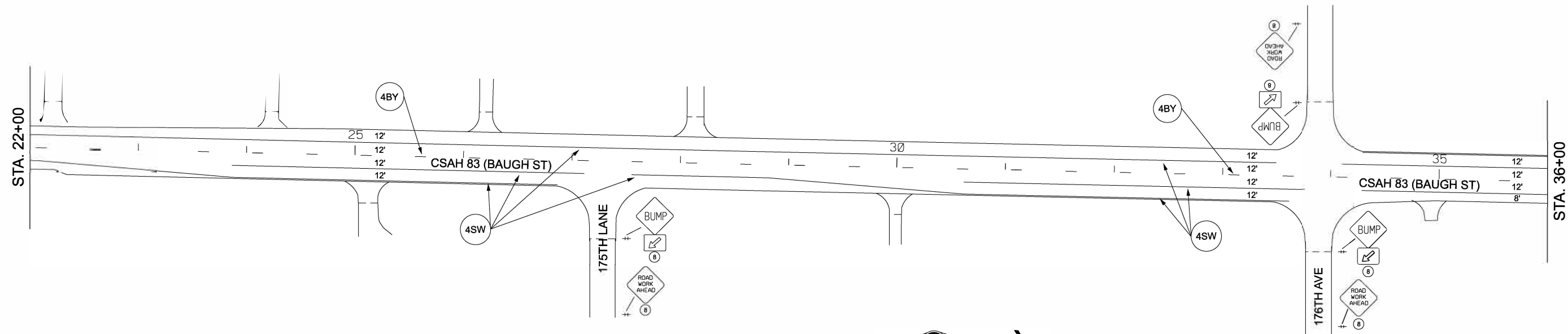
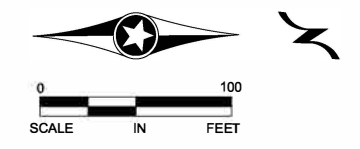


SAP 002-683-007

PERMANENT PAVEMENT MARKING NOTES AND TABULATIONS
 Sheet 9 of 12 Sheets



- SIGNING NOTES**
- ① F. & I.
 - ⑧ TEMPORARY TRAFFIC CONTROL SIGN
- STRIPING KEY**
- MULTI-COMP



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\24-01-00\CSAH_83_(173RD AVE-CR 64)\Base\Traffic\CSAH 83 - Signing & Striping

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PRINT NAME: SEAN R. THIEL
 SIGNATURE: *Sean R. Thiel*
 DATE: 1/16/2024 LICENSE NO. 45129

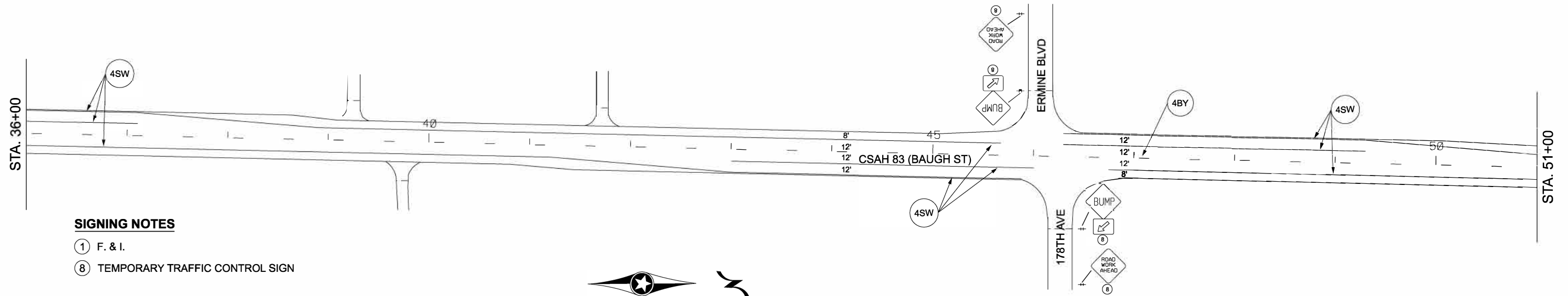
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 CHECKED BY: _____ DATE: _____



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TEMPORARY SIGNING AND PERMANENT STRIPING

Sheet 10 of 12 Sheets

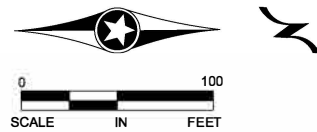
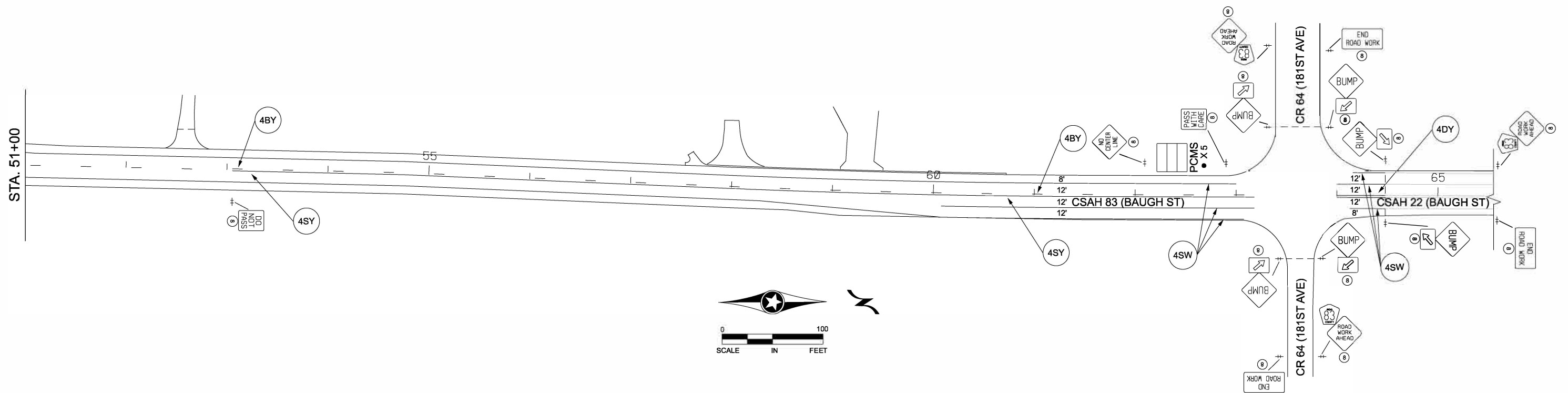
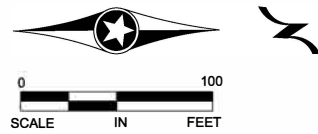


SIGNING NOTES

- ① F. & I.
- ⑧ TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY

- MULTI-COMP



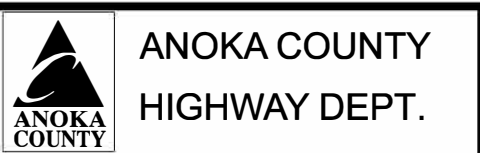
NO	DATE	BY	CKD	APPR	REVISION

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DRAWN BY: ALS DATE: 11/07/23
 DESIGN BY: ALS DATE: 11/07/23
 CHECKED BY: _____ DATE: _____



SAP 002-683-007

TEMPORARY SIGNING AND PERMANENT STRIPING

Sheet 11 of 12 Sheets

TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES

"W" SERIES				
SIGN	MUTCD CODE	COLOR	SIZE	QUANTITY
	W3-4	BLACK ON ORANGE	48" X 48"	AS NEEDED
	W8-1	BLACK ON ORANGE	48" X 48"	13
	W16-7PL	BLACK ON ORANGE	30" X 18"	13
	W8-8	BLACK ON ORANGE	48" X 48"	AS NEEDED
	W8-9	BLACK ON ORANGE	48" X 48"	AS NEEDED
	W8-11	BLACK ON ORANGE	48" X 48"	AS NEEDED
	W8-12	BLACK ON ORANGE	48" X 48"	2
	W8-23	BLACK ON ORANGE	48" X 48"	AS NEEDED
	W20-1	BLACK ON ORANGE	48" X 48"	AS NEEDED (ESTIMATED 11)
	W20-4	BLACK ON ORANGE	48" X 48"	AS NEEDED
	W20-7	BLACK ON ORANGE	48" X 48"	AS NEEDED

"R" SERIES				
SIGN	MUTCD CODE	COLOR	SIZE	QUANTITY
	R4-1	BLACK ON WHITE	24" X 30"	3
	R4-2	BLACK ON WHITE	24" X 30"	2

"M" SERIES				
SIGN	MUTCD CODE	COLOR	SIZE	QUANTITY
	M1-6M	WHITE AND YELLOW ON BLUE	24 X 24	4

"G" SERIES				
SIGN	MUTCD CODE	COLOR	SIZE	QUANTITY
	G20-2	BLACK ON ORANGE	48" X 24"	4

DEVICES		
ITEM	MUTCD CODE	QUANTITY
	DRUM	AS NEEDED (ESTIMATED 10)
	TYPE C	2 (10 DAYS EACH)

PCMS - 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
	D	E	L	A	Y
	S				

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."
- ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADE MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE MN MUTCD.
- 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 PLACE THE PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) A MINIMUM TEN 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.
- ACCESS SHALL BE MAINTAINED TO ALL STREETS AND DRIVEWAYS IN CONSTRUCTION AREA.
- 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. ANY 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.

SIGNING NOTES

- ① F. & I.
- ⑧ TEMPORARY TRAFFIC CONTROL SIGN

TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

SYMBOL DESCRIPTION

- ± TRAFFIC CONTROL SIGN (SINGLE POST)
- ++ TRAFFIC CONTROL SIGN (TEMPORARY)
- DRUM-LIKE CHANNELIZER TYPE B =
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\24-01-00\CSAH_83_(173RD AVE-CR 64)\Base\Traffic\CSAH 83 - Signing & Striping

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: SEAN R. THIEL
 SIGNATURE: *Sean R. Thiel*
 DATE: 1/16/2024 LICENSE NO. 45129

DRAWN BY: ALS DATE: 11/07/23
 DESIGN BY: ALS DATE: 11/07/23
 CHECKED BY: _____ DATE: _____

ANOKA COUNTY
HIGHWAY DEPT.

SAP 002-683-007