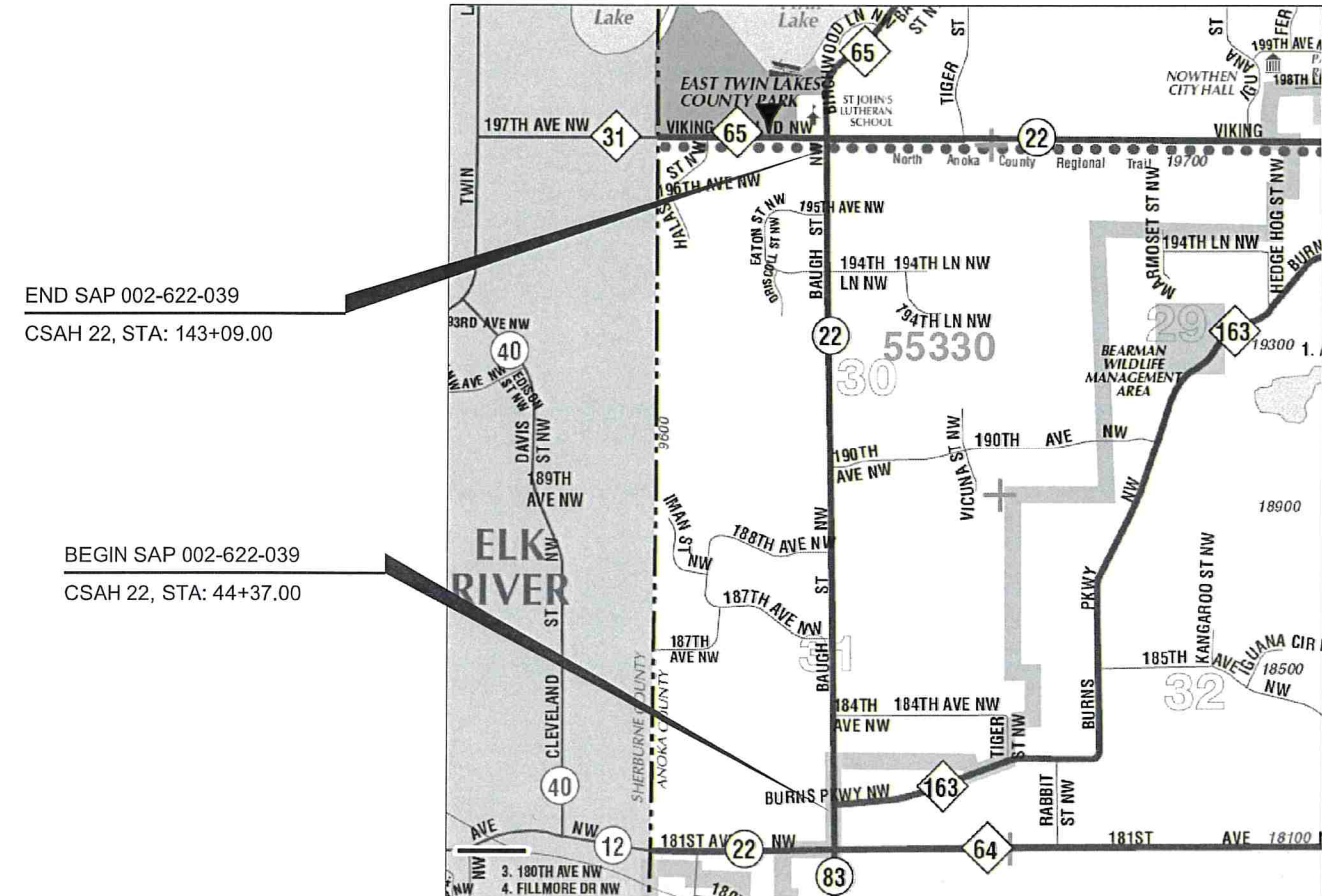


# MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

CONSTRUCTION PLAN FOR \_\_\_\_\_ BITUMINOUS SURFACING \_\_\_\_\_

LOCATED ON CSAH 22 BETWEEN CR 163 (BURNS PKWY NW) AND VIKING BLVD NW

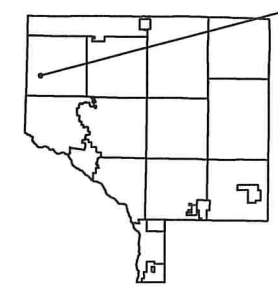
	<u>CSAH 22</u>		
GROSS LENGTH	9,872.00 FEET	1.870 MILES	
EXCEPTIONS-LENGTH	0.00 FEET	0.000 MILES	
NET LENGTH	9,872.00 FEET	1.870 MILES	



END SAP 002-622-039  
CSAH 22, STA: 143+09.00

BEGIN SAP 002-622-039  
CSAH 22, STA: 44+37.00

## PROJECT LOCATION



DESIGN DESIGNATION (CSAH 22)			
ESAL 20	474,348	FUNCTIONAL CLASSIFICATION	A-MINOR EXPANDER
R VALUE	50	NO. OF TRAFFIC LANES	2 NO. OF PARKING LANES 0
ADT (2022)	4016	DESIGN SPEED	55 MPH
PROJ. ADT (2042)	4016	STOPPING SIGHT DISTANCE BASED ON:	
PROJ. HCADT (2042)	237	HEIGHT OF EYE	3.5' HEIGHT OF OBJECT 2.0'
SOIL FACTOR	N/A	DESIGN SPEED NOT ACHIEVED AT:	
		STA. _____ TO STA. _____	MPH _____
		_____ TON DESIGN	

CITY OF NOWTHEN  
ANOKA COUNTY  
MN/DOT TRANSPORTATION DISTRICT - METRO  
SECTION 30, 31  
TOWNSHIP 33 NORTH  
RANGE 25 WEST

GOVERNING SPECIFICATIONS  
THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MNMUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

THIS PLAN CONTAINS 16 SHEETS

### INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TYPICAL SECTIONS
4-5	DETAILS
6-9	CONSTRUCTION PLAN
10	PERMANENT MARKING TABULATION
11-15	TEMPORARY SIGNING PERMANENT STRIPING
A1	ALT BID INFO

Approved 20 22  
ANOKA COUNTY ENGINEER

Approved 2-23, 20 22  
CITY OF NOWTHEN ENGINEER

For \_\_\_\_\_ DATE 2/23/22

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY

For \_\_\_\_\_ DATE 2/23/22

STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING

NO	DATE	BY	CKD	APPR	REVISION	TIME

NAME: P:\22-01-00\CSAH 22\_(WCL-Viking)\Base\Proposed\002-622-039 TITLE\_A.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: AARON P. ANDERSON  
SIGNATURE:   
DATE: 2-4-2022 LICENSE NO. 58657

DRAWN BY: APA DATE: 02/04/2022  
DESIGN BY: APA DATE: 02/04/2022  
CHECKED BY: CO DATE: 02/04/2022

**ANOKA COUNTY  
HIGHWAY DEPT.**

STATE AID PROJECT 002-622-039

TITLE SHEET

Sheet 1 of 15 Sheets

**STATEMENT OF ESTIMATED QUANTITIES**

Notes	Item Number	ITEM DESCRIPTION	Unit	TOTAL PROJECT QUANTITIES ESTIMATED
	2021.501	MOBILIZATION	LUMP SUM	1
1	2221.509	SHOULDER BASE AGGREGATE CLASS 5	TON	878
3	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	196
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	1386
5	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3;B)	TON	18
6	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4;C)	TON	90
	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4;C)	TON	3574
7	2540.602	MAIL BOX SUPPORT	EACH	16
	2563.601	TRAFFIC CONTROL SUPERVISOR	LUMP SUM	1
8	2563.601	TRAFFIC CONTROL	LUMP SUM	1
9	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	20
10	2581.503	REMOVABLE PREFORMED PAVEMENT MARKING TAPE	LIN FT	395
11	2582.503	4" SOLID LINE MULTI-COMPONENT	LIN FT	21306
11	2582.503	4" BROKEN LINE MULTI-COMPONENT	LIN FT	1784
11	2582.503	4" DOUBLE SOLID LINE MULTI-COMPONENT	LIN FT	850

**ADD ALT BID SAP 002-622-039**

2	2221.609	SHOULDER BASE AGGREGATE SPECIAL	TON	878
4	2232.604	MILL BITUMINOUS PAVEMENT (SPECIAL)	SQ YD	27623

**CONSTRUCTION NOTES**

1	ITEM INCLUDES 7 TONS FOR EACH GRAVEL ENTRANCE AND GRAVEL STREET APPROACH.
2	SEE ALT BID PAGE A1 FOR DETAILS. ITEM USED AS 100% MILLINGS SHOULDERING MATERIAL. IF ALTERNATE IS CHOSEN BY THE AGENCY AS THE CONSTRUCTION METHOD, THIS ITEM WILL BE A DIRECT REPLACEMENT FOR SHOULDER BASE AGGREGATE CLASS 5.
3	ITEM INCLUDES 2" DEEP MILL AT BEGINNING AND END OF PROJECT, ALL PAVED ST APPROACHES, AND DRIVEWAYS; SEE DETAILS FOR DIMENSIONS
4	SEE ALT BID PAGE A1 FOR DETAILS. ITEM USED TO MILL HIGH POINTS OF BITUMINOUS CAUSED BY RUTTING THROUGHOUT THE CORRIDOR TO CREATE AN EQUAL PLANE FOR PAVING PURPOSES.
5	ITEM FOR BITUMINOUS DRIVEWAYS. DRIVEWAYS SHALL BE PAVED AFTER MAINLINE AND BEFORE FINAL STRIPING.
6	ITEM FOR STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING
7	MAILBOXES ARE TO BE INSTALLED AT THE EXISTING MAILBOX LOCATION OR AS DIRECTED BY THE LOCAL POSTAL AUTHORITY, CONTRACTOR IS RESPONSIBLE FOR CONTACTING. MAILBOX REMOVAL AND ALL MATERIALS ARE INCIDENTAL TO INSTALLATION.
8	ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO, AND BE INSTALLED IN ACCORDANCE WITH, THE MOST CURRENT REVISION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". "DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, AND STOP HERE ON RED SIGNS SHALL BE INPLACE WHENEVER PERMANENT PAVEMENT MARKINGS ARE NOT PRESENT.
9	TWO (2) MESSAGE BOARDS, ONE ON THE EACH END OF PROJECT, SHALL BE INSTALLED 10 DAYS PRIOR TO ANY CONSTRUCTION; REFERENCE STRIPING PLAN FOR DETAILS.
10	CENTERLINE AND LANE DESIGNATION SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON MILLED SURFACE AND EACH NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE PRIOR TO FINAL STRIPING.
11	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING. CANNOT BE INSTALLED SOONER THAN 48 HOURS.

**BASIS OF PLANNED QUANTITIES**

2357	BITUMINOUS MATERIAL FOR TACK COAT	0.05 GAL / SQ YD
2211	AGGREGATE BASE CLASS 5	1.8 TONS / CU YD
2360	ALL BITUMINOUS PAVEMENT	115 LBS / SQ YD / IN THICKNESS
2581	REMOVABLE PREFORM PAVEMENT MARKING TAPE	2' AT 50' INTERVALS

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

**MNDOT STANDARD PLATES**

PLATE NO.	DESCRIPTION
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)
9350B	MAILBOX SUPPORT - SWING-AWAY TYPE


**BITUMINOUS STREET SUMMARY**

LOCATION	BITUMINOUS		NOTES
	2360 TYPE SP 12.5 WEAR (4,C)	TON	
Burns Pkwy		14	[1]
184th Ave		9	[1]
187th Ave		11	[1]
188th Ave		11	[1]
190th Ave		13	[1]
194th Ln (W)		13	[1]
194th Ln (E)		8	[1]
195th Ave		12	[1]
<b>PROJECT TOTAL</b>		<b>90</b>	

**BITUMINOUS SUMMARY NOTES:**

[1] QUANTITY ESTIMATED FOR 1 LIFTS

NO	DATE	BY	CKD	APPR	REVISION	2/10/2022	1:21:08 PM
NAME: P:\22-01-00\CSAH 22_(WCL-Viking)\Base\Proposed\002-622-039 SEQ_A.dgn							

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 CHECKED BY: CO DATE: 02/10/2022



**ANOKA COUNTY  
HIGHWAY DEPT.**

STATE AID PROJECT 002-622-039

STATEMENT OF ESTIMATED QUANTITIES

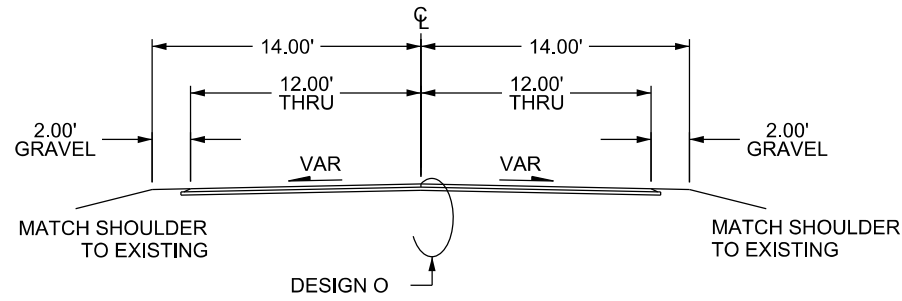
Sheet 2 of 15 Sheets

### CSAH 22 - BAUGH ST NW

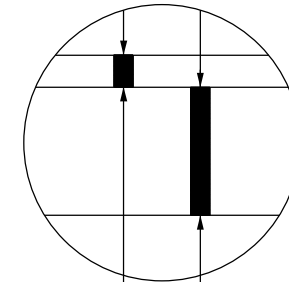
(PROPOSED) SECTION

44+37.00 - 69+27.00

74+08.00 - 143+09.00



### DESIGN O OVERLAY SECTION



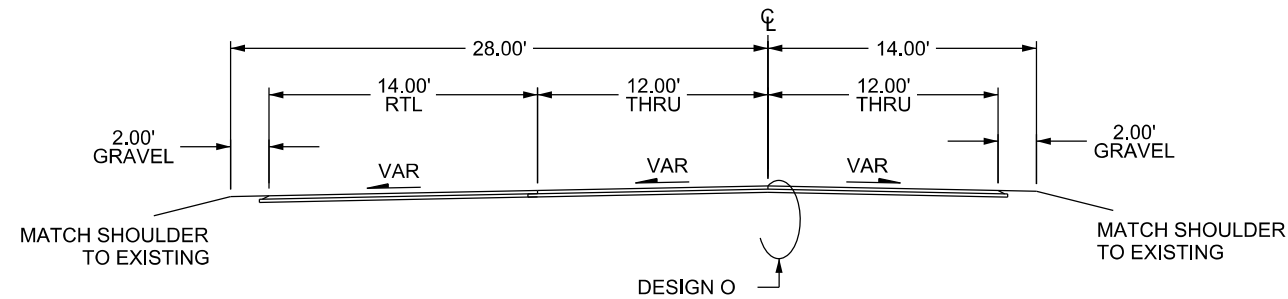
2.0" BITUMINOUS WEAR(SPWEB440C)

EXISTING BITUMINOUS

### CSAH 22 - BAUGH ST NW

(PROPOSED) SECTION

69+27.00 - 74+08.00



NO	DATE	BY	CKD	APPR	REVISION	TIME
	02/04/2022					11:54:19 AM

NAME: P:\22-01-00\CSAH 22\_(WCL-Viking)\Base\Proposed\002-622-039 TYPICALS\_A.dgn

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DESIGN BY APA DATE 02/04/2022

CHECKED BY CO DATE 02/04/2022

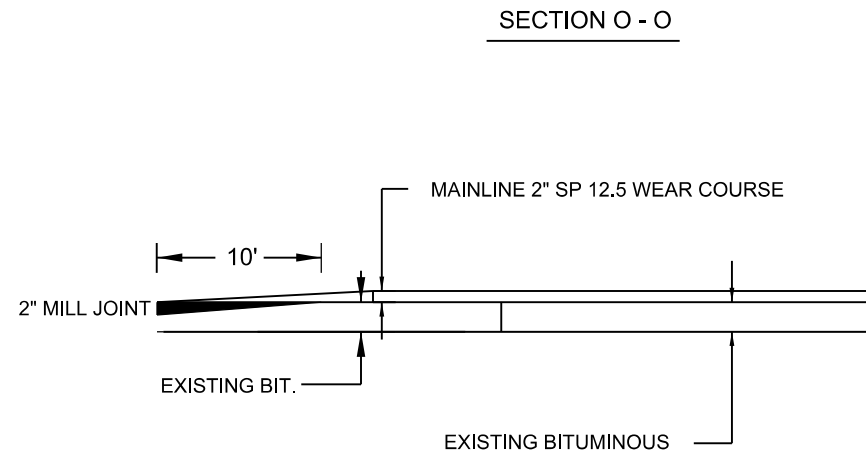
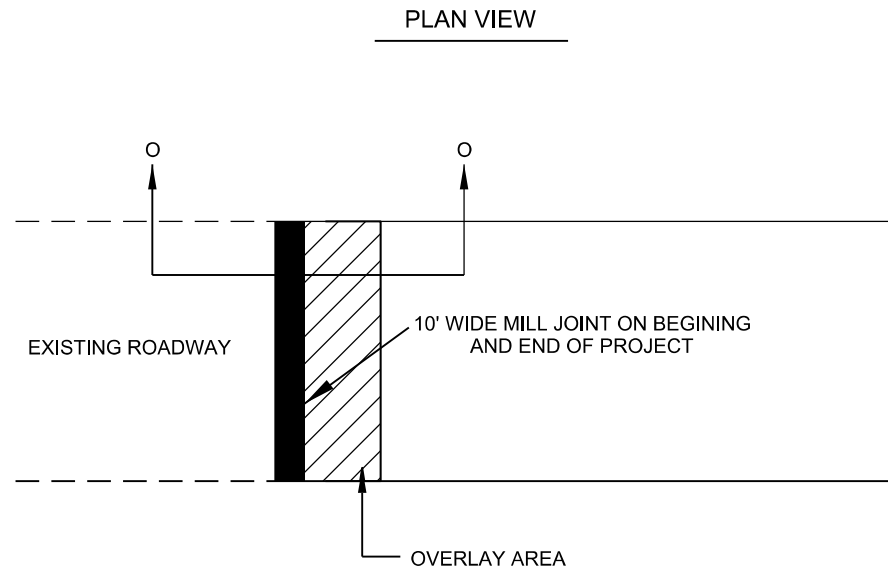
**ANOKA COUNTY  
HIGHWAY DEPT.**

STATE AID PROJECT 002-622-039

TYPICAL SECTIONS

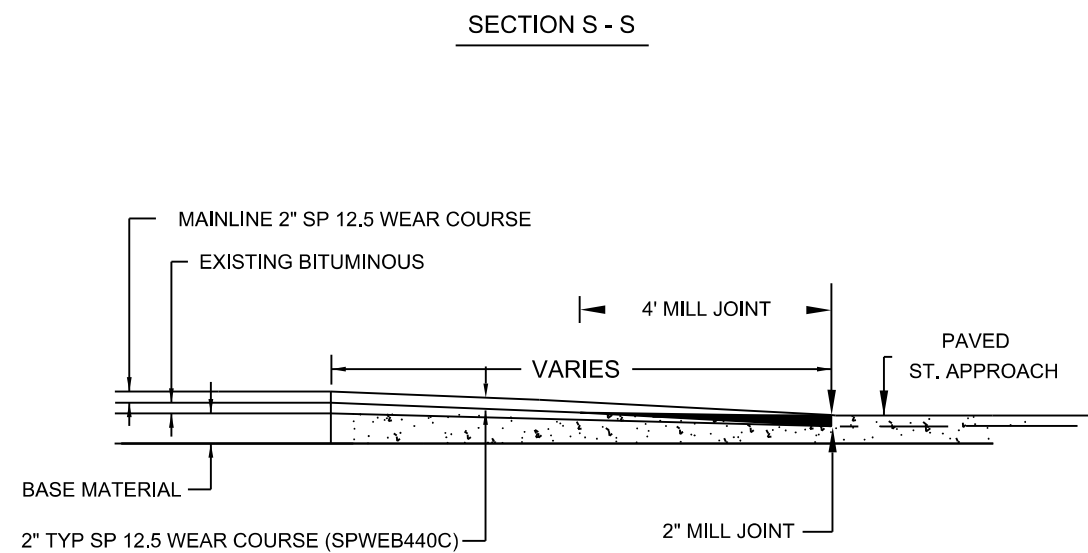
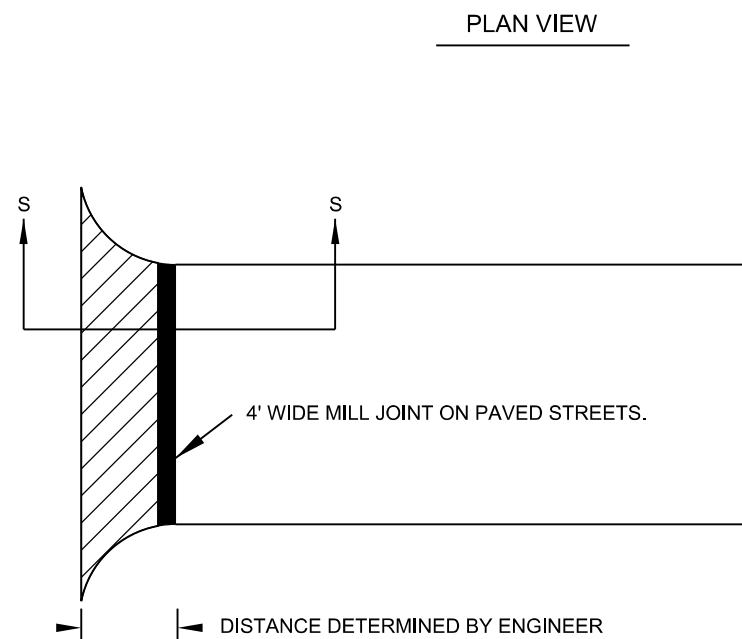
Sheet 3 of 15 Sheets

### MAINLINE JOINT DETAIL (OVERLAY)




### STREET APPROACH DETAIL (SIMPLE OVERLAY)

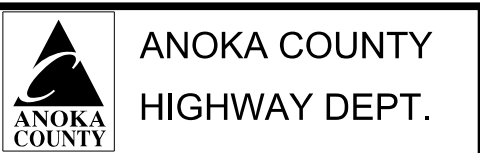
BITUMINOUS STREET



NO	DATE	BY	CKD	APPR	REVISION	02/04/2022	11:54:20 AM
NAME: P:\22-01-00\CSAH 22 (WCL-Viking)\Base\Proposed\002-622-039 DETAILS_A.dgn							

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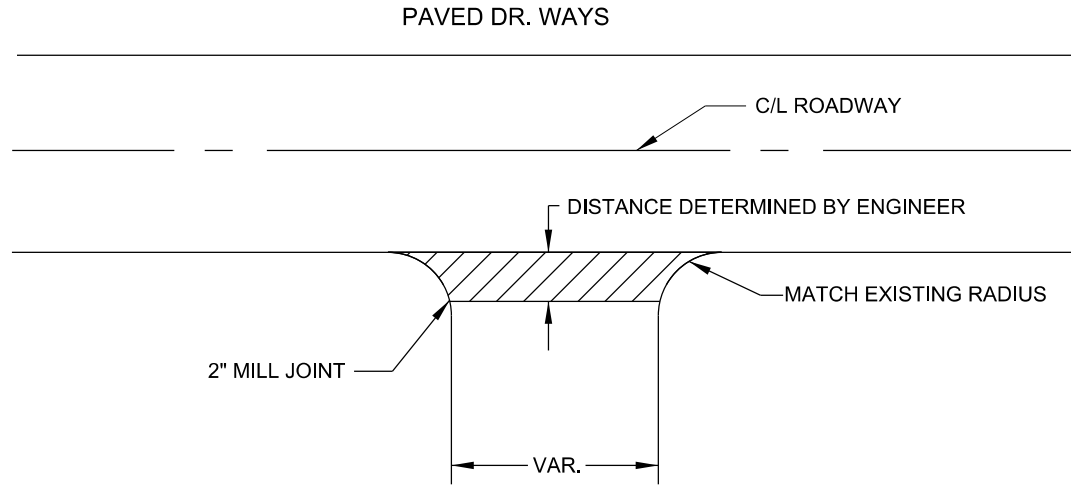
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 CHECKED BY CO DATE 02/04/2022



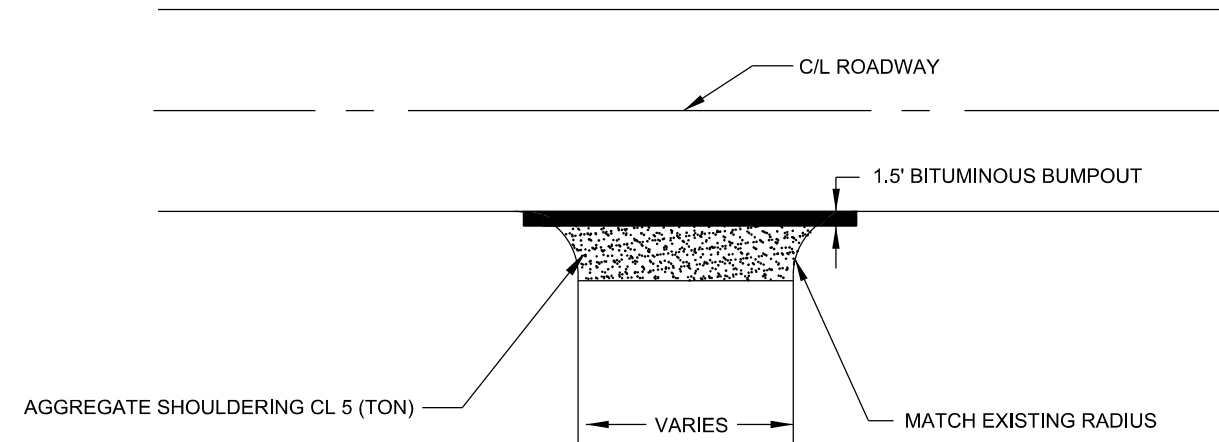
STATE AID PROJECT 002-622-039

DETAILS  
 Sheet 4 of 15 Sheets

**DRIVEWAY DETAIL**  
BITUMINOUS DRIVEWAY

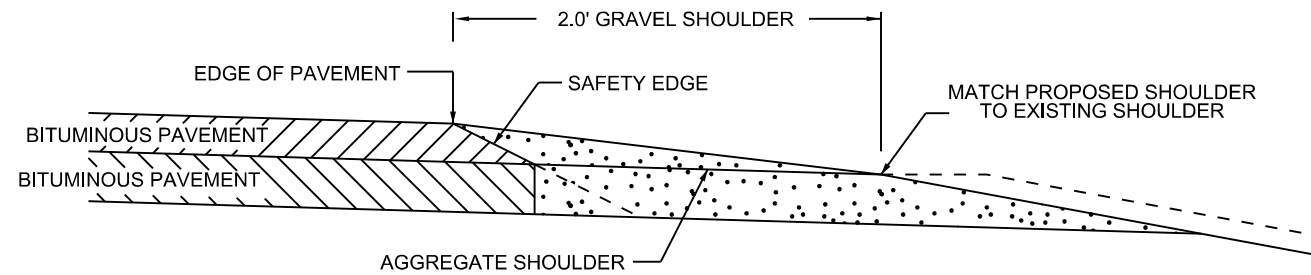


**DRIVEWAY DETAIL**  
GRAVEL / FIELD ENTRANCE



DRIVEWAYS BUMPED OUT AND PAVED WITH MAINLINE PAID AS MAINLINE.  
DRIVEWAYS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS DRIVEWAY OR STREET APPROACH.

**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	TIME
	02/04/2022					11:54:20 AM

NAME: P:\22-01-00\CSAH 22\_(WCL-Viking)\Base\Proposed\002-622-039 DETAILS\_A.dgn

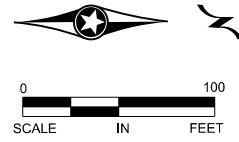
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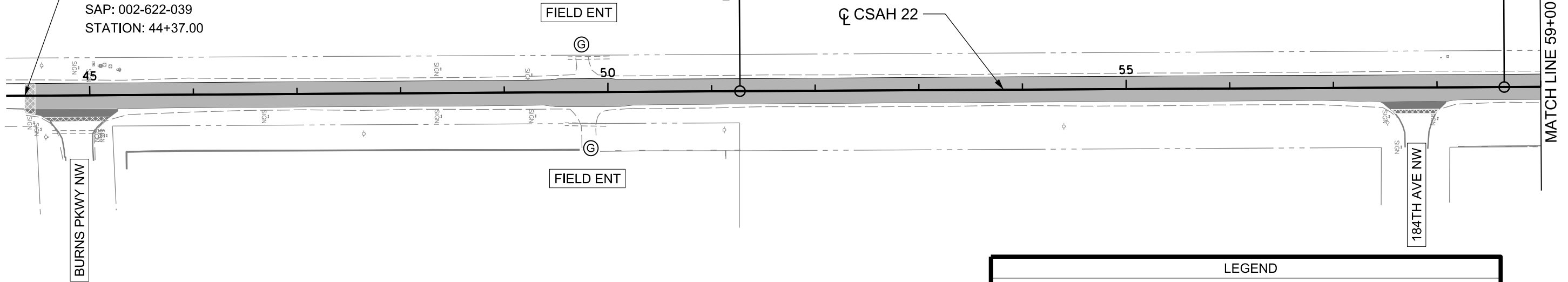
**ANOKA COUNTY**  
**HIGHWAY DEPT.**

STATE AID PROJECT 002-622-039

DETAILS  
Sheet 5 of 15 Sheets

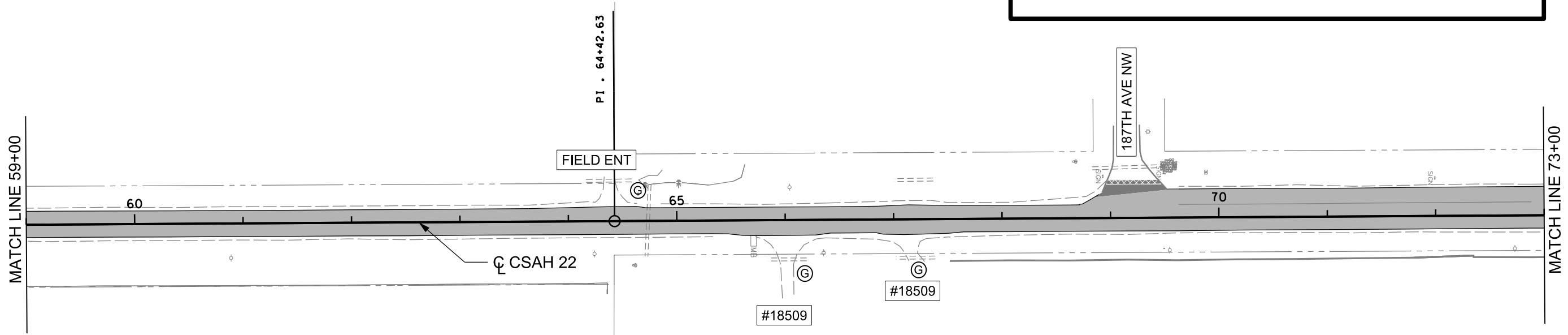


BEGIN CONSTRUCTION  
SAP: 002-622-039  
STATION: 44+37.00



**LEGEND**

(B)	OVERLAY BITUMINOUS DRIVEWAY		BUTT MILL (MILL BITUMINOUS SURFACE (2.0"))
(G)	GRAVEL		SIDE STREET OVERLAY
	MAINLINE OVERLAY		
			R/W



NO	DATE	BY	CKD	APPR	REVISION	
	02/04/2022					11:54:23 AM

NAME: P:\22-01-00\CSAH 22\_(WCL-Viking)\Base\Proposed\002-622-039 CP1A.dgn

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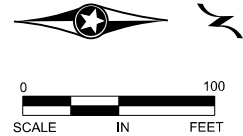
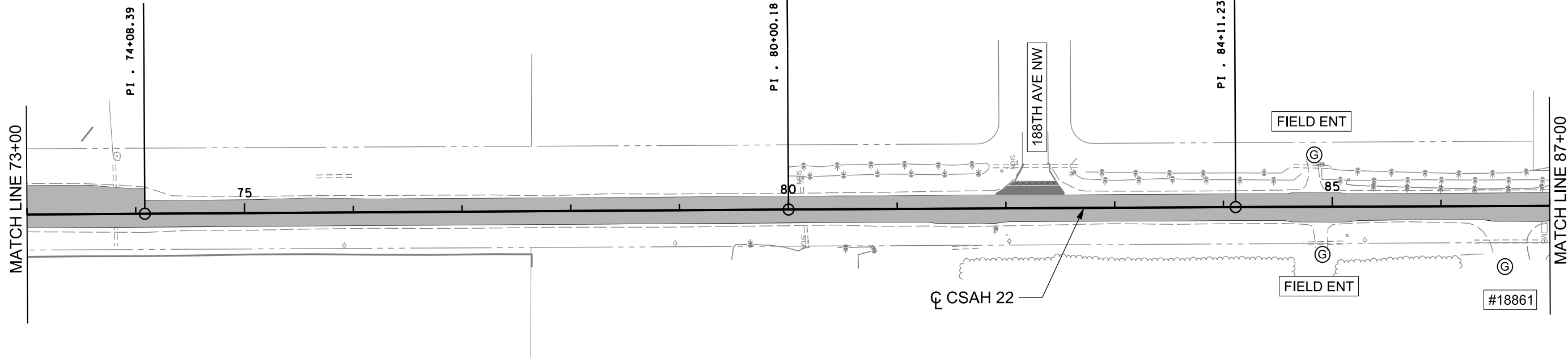
DESIGN BY: APA DATE: 02/04/2022

CHECKED BY: CO DATE: 02/04/2022

**ANOKA COUNTY**  
**HIGHWAY DEPT.**

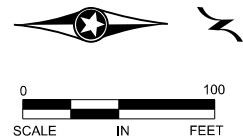
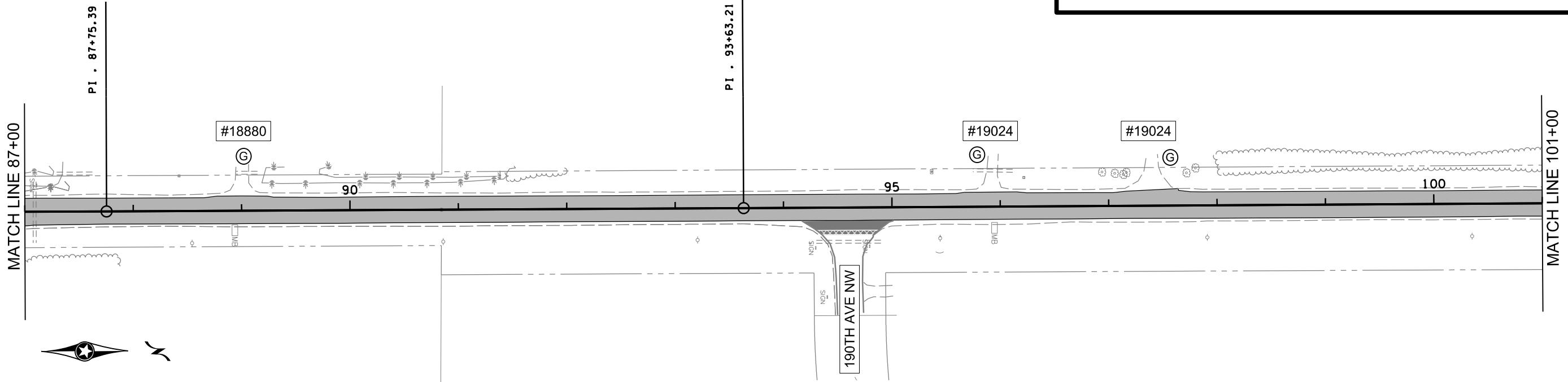
STATE AID PROJECT 002-622-039

CONSTRUCTION PLAN  
STA 44+37 TO 73+00  
Sheet 6 of 15 Sheets



**LEGEND**

(B)	OVERLAY BITUMINOUS DRIVEWAY		BUTT MILL (MILL BITUMINOUS SURFACE (2.0"))
(G)	GRAVEL		SIDE STREET OVERLAY
	MAINLINE OVERLAY	----- R / W -----	



NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME
						02/04/2022	11:54:24 AM

NAME: P:\22-01-00\CSAH 22\_(WCL-Viking)\Base\Proposed\002-622-039 CP2A.dgn

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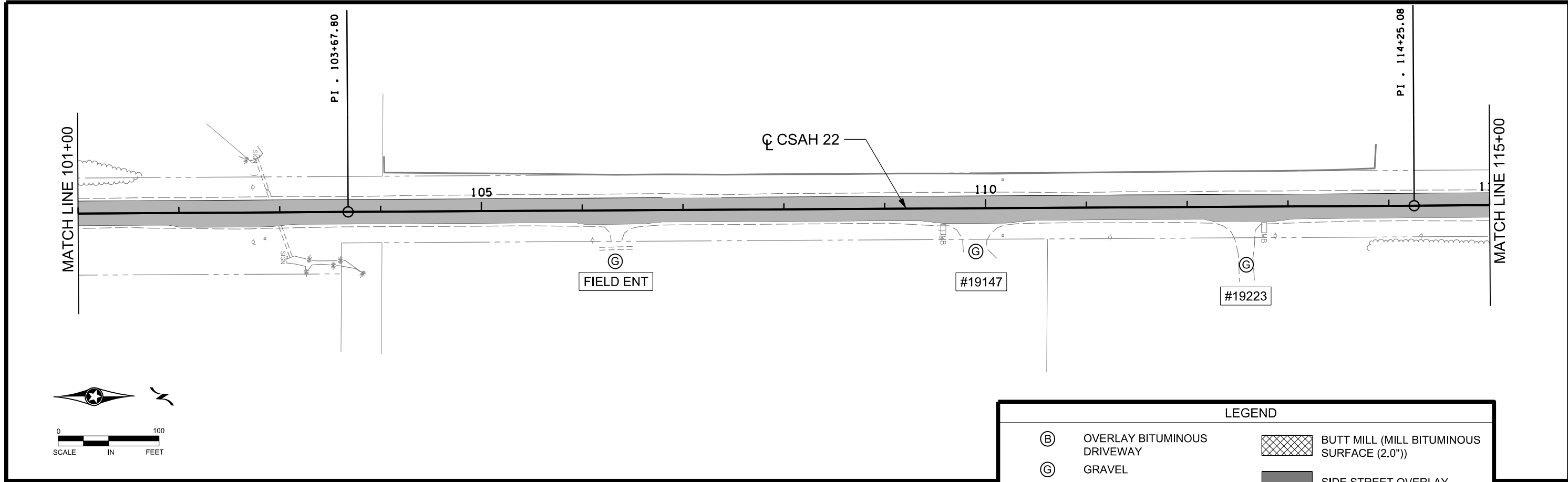
**ANOKA COUNTY  
HIGHWAY DEPT.**

STATE AID PROJECT 002-622-039

**CONSTRUCTION PLAN**

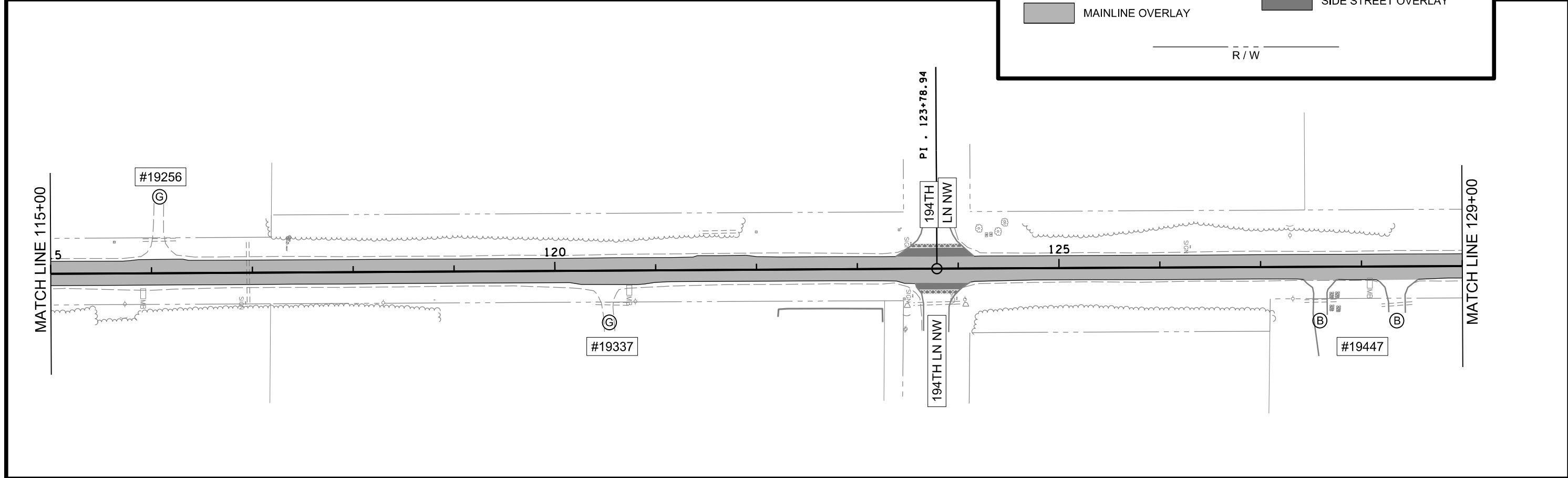
STA 73+00 TO 101+00

Sheet 7 of 15 Sheets



**LEGEND**

<p>(B) OVERLAY BITUMINOUS DRIVEWAY</p> <p>(G) GRAVEL</p> <p>MAINLINE OVERLAY</p>	<p>BUTT MILL (MILL BITUMINOUS SURFACE (2.0"))</p> <p>SIDE STREET OVERLAY</p>	<p>R/W</p>
--	--	------------



NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME

NAME: P:\22-01-00\CSAH 22 (WCL-Viking)\Base\Proposed\002-622-039 CP3A.dgn

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CHECKED BY CO DATE 02/04/2022

**ANOKA COUNTY**  
**HIGHWAY DEPT.**

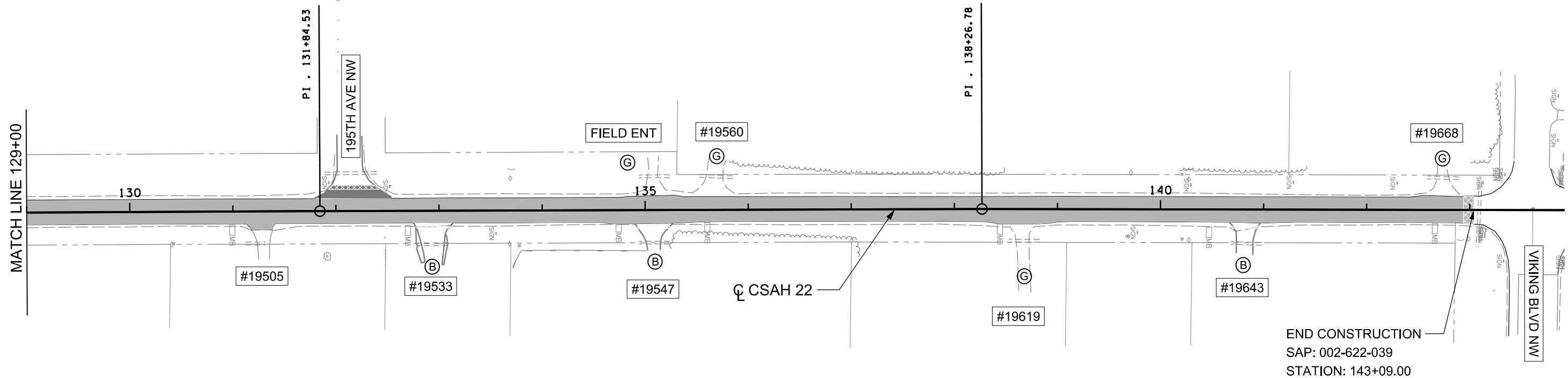
STATE AID PROJECT 002-622-039

**CONSTRUCTION PLAN**

STA 101+00 TO 129+00

Sheet 8 of 15 Sheets





END CONSTRUCTION  
 SAP: 002-622-039  
 STATION: 143+09.00

LEGEND	
(B)	OVERLAY BITUMINOUS DRIVEWAY
(G)	GRAVEL
[Hatched Box]	BUTT MILL (MILL BITUMINOUS SURFACE (2.0"))
[Solid Grey Box]	SIDE STREET OVERLAY
[Thick Line]	MAINLINE OVERLAY
[Dashed Line]	R / W

NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME
	02/04/2022						11:54:26 AM

NAME: P:\22-01-00\CSAH 22 (WCL-Viking)\Base\Proposed\002-622-039 CP4A.dgn

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**ANOKA COUNTY**  
**HIGHWAY DEPT.**

STATE AID PROJECT 002-622-039

CONSTRUCTION PLAN  
 STA 129+00 TO 143+09  
 Sheet 9 of 15 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.

**MULTI COMPONENT (MULTI COMP):**

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.

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.

A MULTI COMP LINE SHALL BE APPLIED WITH A MINIMUM THICKNESS OF 20 MILS (WET) AND 4" WIDE. GLASS BEADS SHALL BE APPLIED AT A MINIMUM RATE OF 25LBS POUNDS 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.





PAVEMENT MARKING TABULATION		
ITEM	UNIT	TOTAL QUANTITY
4" SOLID LINE WHITE - MULTI COMP	LIN FT	20026
1 4" BROKEN LINE YELLOW - MULTICOMP	LIN FT	1784
4" SOLID LINE YELLOW - MULTICOMP	LIN FT	1280
4" SOLID DOUBLE LINE YELLOW - MULTICOMP	LIN FT	850

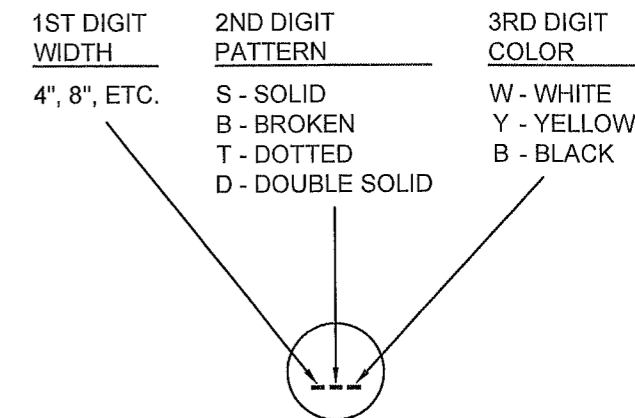
1 10' STRIPE, 40' GAP

**SYMBOLS & MATERIALS LEGEND**



-  CROSSWALK BLOCK WHITE - POLY PREFORM
-  PAVEMENT MESSAGE (LEFT ARROW) POLY PREFORM

**STRIPING KEY**

-  CIRCLE - MULTI COMP
-  TRIANGLE - PAINT
-  SQUARE - POLY PREFORM THERMOPLASTIC
-  PENTAGON - REMOVABLE PREFORMED PLASTIC MARKING



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

-  - - - - - BROKEN LINE - 50' CYCLE (10' LINE, 40' GAP)
-  . . . . . DOTTED LINE - 15' CYCLE (3' LINE, 12' GAP) UNLESS SHOWN OTHERWISE IN THE PLAN

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\22-01-00\CSAH\_22\_(WCL-Viking)\Base\Traffic\Perm Pvmt Mrkg Guide Notes 2021.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: SEAN R. THIEL DATE: 2/10/22

SIGNATURE: *Sean R. Thiel* LICENSE NO. 45129

DRAWN BY: TMV DATE: 02/04/22

DESIGN BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: SRT DATE: 02/08/22



**ANOKA COUNTY  
HIGHWAY DEPT.**

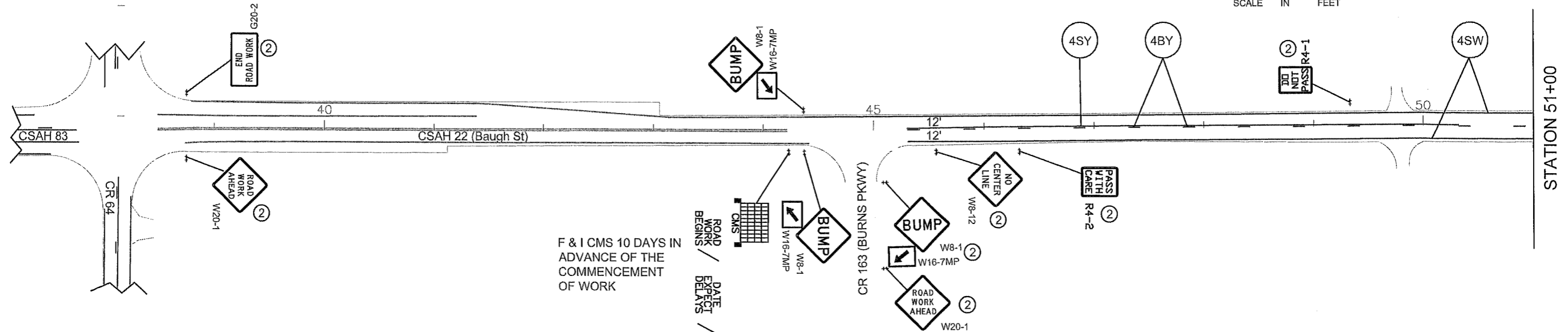
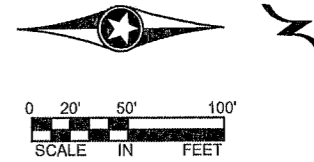
SAP 002-622-039

PERMANENT MARKING  
TABULATION

SHEET 10 OF 15 SHEETS

SIGN NOTES:  
 ② TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY  
 ○ CIRCLE - MULTI COMP



F & I CMS 10 DAYS IN ADVANCE OF THE COMMENCEMENT OF WORK

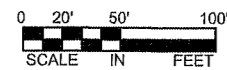
ROAD WORK BEGINS / DATE EXPIRES / DELAYS /

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".
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STATION 51+00

STATION 66+00



NO	DATE	BY	CKD	APPR	REVISION
NAME: P:\22-01-00\CSAH 22_(WCL-Viking)\Base\TrafficTemp Signing & Perm 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: SEAN R. THIEL DATE: 2/10/22  
 SIGNATURE: *Sean R. Thiel* LICENSE NO. 45129

DRAWN BY: TMV DATE: 02/04/22  
 DESIGN BY: DATE: \_\_\_\_\_  
 CHECKED BY: SRT DATE: 02/08/22



ANOKA COUNTY  
 HIGHWAY DEPT.

SAP 002-622-039

TEMPORARY SIGNING  
 PERMANENT STRIPING

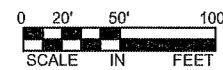
SHEET 11 OF 15 SHEETS

STATION 66+00

STATION 81+00

SIGN NOTES:  
② TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY  
○ CIRCLE - MULTI COMP

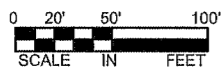


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STATION 81+00

STATION 96+00



NO	DATE	BY	CKD	APPR	REVISION
NAME: P:\22-01-00\CSAH 22_(WCL-Viking)\Base\Traffic\Temp Signing & Perm Striping.dwg					

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PRINT NAME: SEAN R. THIEL DATE: 2/10/22

SIGNATURE: *Sean R. Thiel* LICENSE NO. 45129

DRAWN BY TMV DATE 02/04/22

DESIGN BY DATE

CHECKED BY SRT DATE 02/08/22



ANOKA COUNTY  
HIGHWAY DEPT.

SAP 002-622-039

TEMPORARY SIGNING  
PERMANENT STRIPING

SHEET 12 OF 15 SHEETS

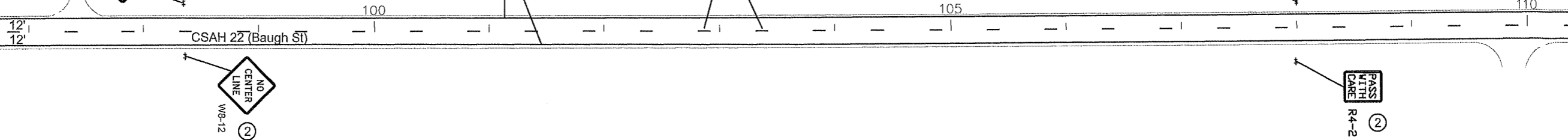
STATION 96+00

STATION 111+00

SIGN NOTES:  
② TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY

○ CIRCLE - MULTI COMP

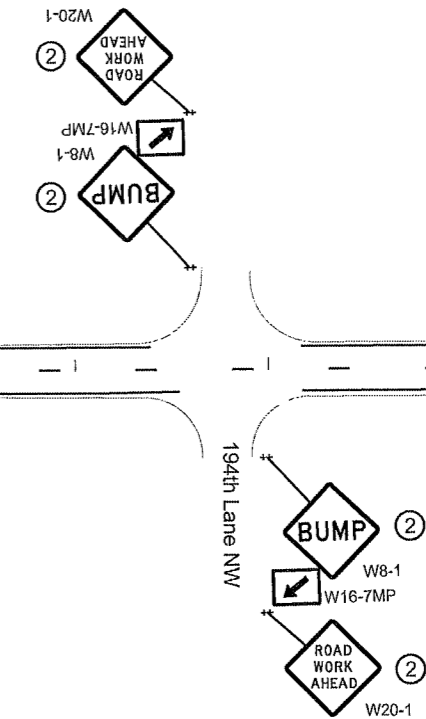
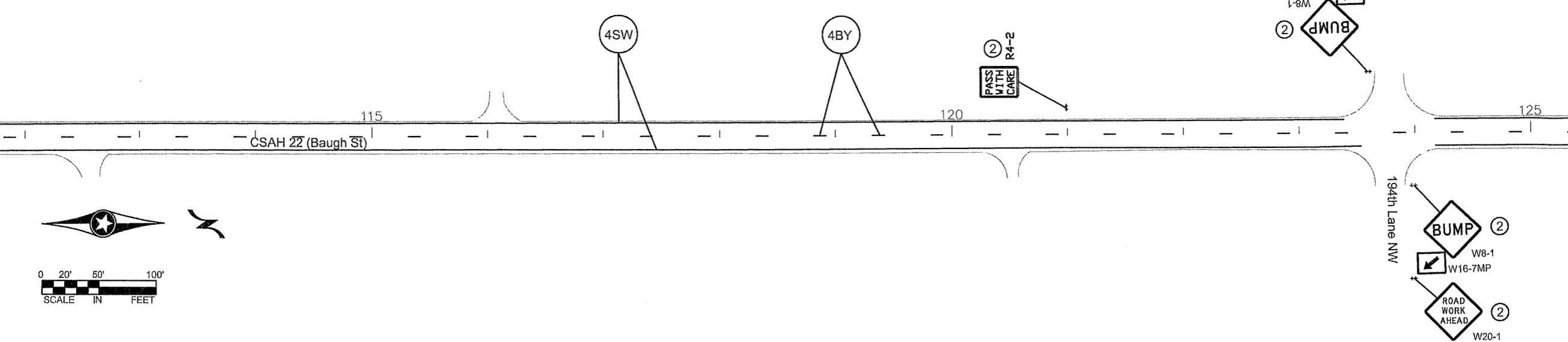


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STATION 111+00

STATION 126+00

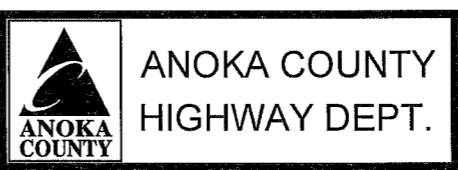


NO	DATE	BY	CKD	APPR	REVISION
NAME: P:\22-01-00\CSAH 22_(WCL-Viking)\Base\Traffic\Temp Signing & Perm Striping.dwg					

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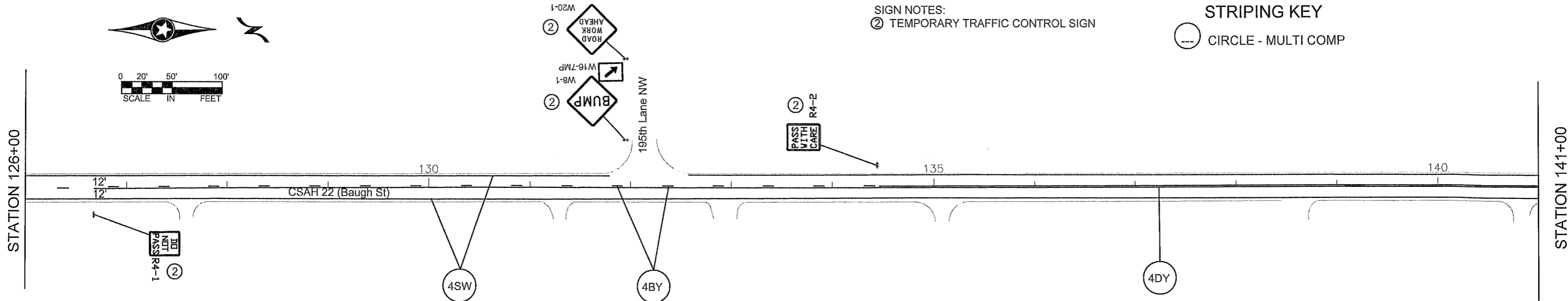
PRINT NAME: SEAN R. THIEL DATE: 2/10/22  
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DRAWN BY: TMV DATE: 02/04/22  
 DESIGN BY: DATE:   
 CHECKED BY: SRT DATE: 02/08/22



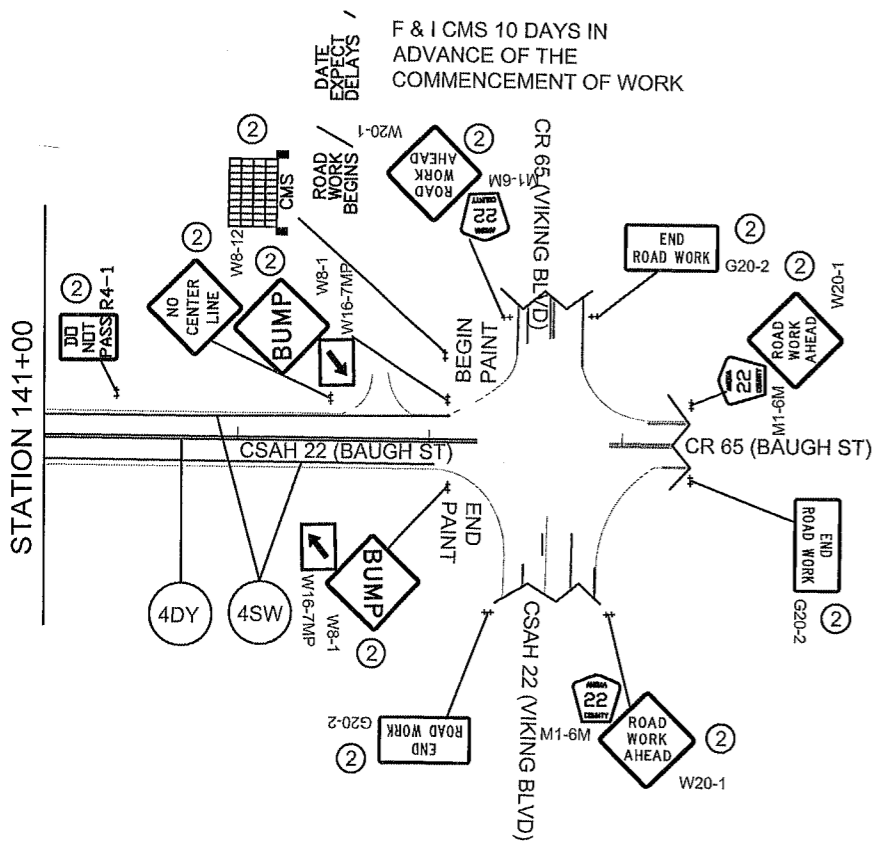
SAP 002-622-039

TEMPORARY SIGNING  
 PERMANENT STRIPING  
 SHEET 13 OF 15 SHEETS



SIGN NOTES:  
 ② TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY  
 ○ CIRCLE - MULTI COMP



F & I CMS 10 DAYS IN ADVANCE OF THE COMMENCEMENT OF WORK  
 DATE EXPECT DELAYS

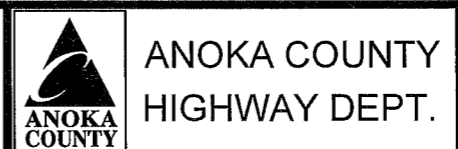
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NO	DATE	BY	CKD	APPR	REVISION
NAME: P:\22-01-00\CSAH 22_(WCL-Viking)\Base\TrafficTemp Signing & Perm Striping.dwg					




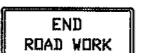





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 PRINT NAME: SEAN R. THIEL DATE: 2/10/22  
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DRAWN BY: TMV DATE: 02/04/22  
 DESIGN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: SRT DATE: 02/08/22



SAP 002-622-039

TEMPORARY SIGNING  
 PERMANENT STRIPING  
 SHEET 14 OF 15 SHEETS

TEMPORARY TRAFFIC CONTROL SIGNS			
M.U.T.C.D. CODE	SIZE	INSERT	QUANTITY
W8-12	48" x 48"		4
R4-1	24" x 30"		3
R4-2	24" x 30"		12
G20-2	36" x 18"		4
W8-1	48" x 48"		12
W16-7P	30" x 18"		12
W3-4	48" x 48"		AS NEEDED
W8-1	48" x 48"		AS NEEDED
W8-8	48" x 48"		AS NEEDED

TEMPORARY TRAFFIC CONTROL SIGNS			
M.U.T.C.D. CODE	SIZE	INSERT	QUANTITY
W8-9	48" x 48"		AS NEEDED
W8-11	48" x 48"		AS NEEDED
W8-23	48" x 48"		AS NEEDED
M1-6M	24" x 24"		3
W20-1	48" x 48"		AS NEEDED (ESTIMATED 12)
W20-4	48" x 48"		AS NEEDED
W20-7	48" x 48"		AS NEEDED
REFLECTORIZED REBOUNDABLE DRUM			AS NEEDED (ESTIMATED 10)
CMS sign to be placed a minimum of ten days prior to actual commencement of road work. Signs to be removed when road work begins.			2 AT 10 DAYS EA

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

CMS SIGN TO BE PLACED A MINIMUM OF TEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS.

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\22-01-00\CSAH 22\_(WCL-Viking)\BaselTraffic\Temp Signing & Perm Striping.dwg

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PRINT NAME: SEAN R. THIEL DATE: 2/10/22

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DRAWN BY: TMV DATE: 02/04/22

DESIGN BY: DATE:

CHECKED BY: SRT DATE: 02/08/22



ANOKA COUNTY  
HIGHWAY DEPT.

SAP 002-622-039

TEMPORARY SIGNING  
QUANTITIES

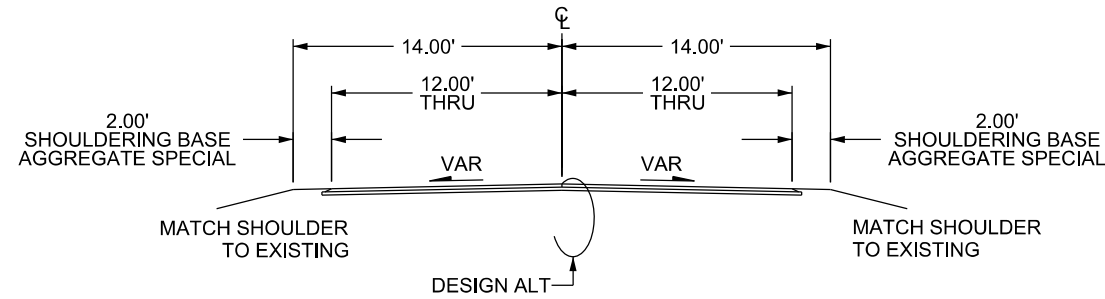
SHEET 15 OF 15 SHEETS

### CSAH 22 - BAUGH ST NW

(PROPOSED) SECTION

44+37.00 - 69+27.00

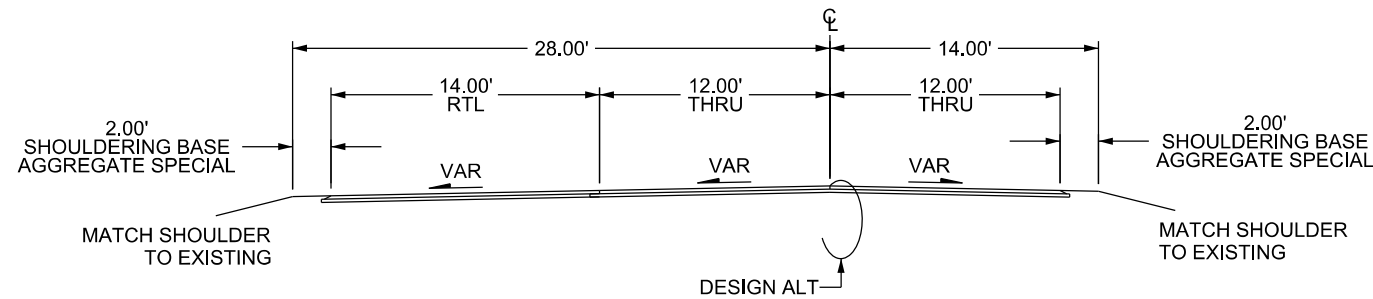
74+08.00 - 143+09.00



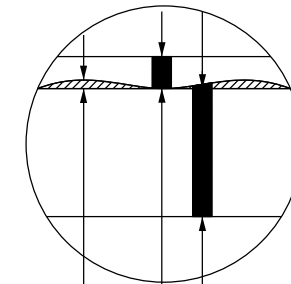
### CSAH 22 - BAUGH ST NW

(PROPOSED) SECTION

69+27.00 - 74+08.00



### DESIGN ALT MILL SPECIAL & OVERLAY SECTION



(1) MILL BITUMINOUS PAVEMENT (SPECIAL)

2.0" BITUMINOUS WEAR (SPWEB440C)

EXISTING BITUMINOUS


(1) MILL RUTTING HIGH SPOTS PRIOR TO 2.0" BITUMINOUS OVERLAY

NO	DATE	BY	CKD	APPR	REVISION	TIME
	02/04/2022					11:54:28 AM

NAME: P:\22-01-00\CSAH 22 (WCL-Viking)\Base\Proposed\002-622-039 TYPICALS\_A.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: AARON B. ANDERSON

SIGNATURE: 

DATE: 2-4-2022 LICENSE NO. 58657

DRAWN BY: APA DATE: 02/04/2022

DESIGN BY: APA DATE: 02/04/2022

CHECKED BY: CO DATE: 02/04/2022



**ANOKA COUNTY  
HIGHWAY DEPT.**

STATE AID PROJECT 002-622-039

ALT BID INFO

Sheet A1 of A1 Sheets