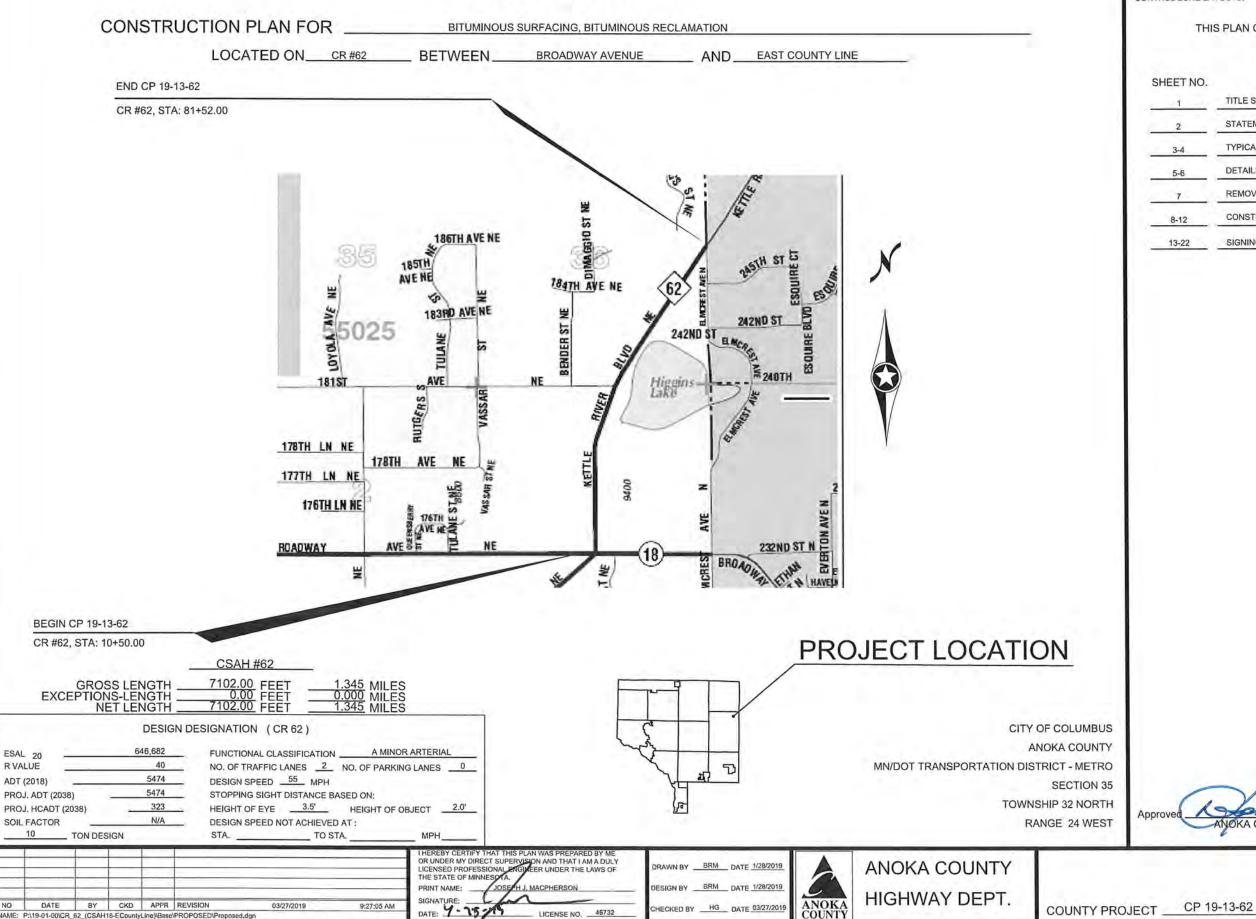
MINNESOTA DEPARTMENT OF TRANSPORTATION **ANOKA COUNTY**



GOVERNING SPECIFICATIONS

THE 2018 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 22 SHEETS

INDEX

SHEET NO.	DESCRIPTION
	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3-4	TYPICAL SECTIONS
5-6	DETAILS
	REMOVAL PLAN
8-12	CONSTRUCTION PLANS
13-22	SIGNING & STRIPING PLANS

TITLE SHEET

Sheet 1 of 22 Sheets

	STATEMENT OF ESTIMATED QUANTITIES							
i				TOTAL PROJECT				
NOTES	ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL PROJECT QUANTITIES ESTIMATED				
140120	2021.501	IMOBILIZATION	LUMP SUM	QUANTITIES ESTIMATED				
-	2104.502	SALVAGE SIGN TYPE C	EACH	3				
1	2104,502	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	570				
	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	232				
	2104.510	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)						
17	2105.507	COMMON EXCAVATION	LIN FT CU YD	265 650				
<u> </u>	2105.507	SELECT GRANULAR BORROW (LV)	CUYD					
5	2105.602	CONSTRUCT TURN LANE		200				
2		MOTOR GRADER	EACH	1				
9		DOZER	HOUR	12				
_	2130.523	WATER	HOUR	8				
	2130.523	AGGREGATE BASE CLASS 5	MGAL	137				
3			TON	285				
	2215.504	FULL DEPTH RECLAMATION	SQ YD	19634				
44		HAUL FULL DEPTH RECLAMATION (LV)	CUYD	60				
	2221.509	SHOULDER BASE AGGREGATE CLASS 5	TON	62				
	2232,504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	297				
	+	BITUMINOUS MATERIAL FOR TACK COAT	GAL	993				
1,6	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	66				
7	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4,C)	TON	253				
	2360,509	TYPE SP 12.5 WEARING COURSE MIXTURE (4,C)	TON	5814				
14	2540.602	MAIL BOX SUPPORT	EACH	32				
10	2563.601	TRAFFIC CONTROL	LUMP SUM	1				
11	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	20				
	2564.502	INSTALL SIGN PANEL TYPE C	EACH	4				
	2564.518	SIGN PANELS TYPE C	SQ FT	6,25				
8	2573,503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	100				
15	2574.507	COMMON TOPSOIL BORROW (LV)	CUYD	150				
16		EROSION CONTROL BLANKETS CATEGORY 0	SQ YD	1400				
12		REMOVABLE PREFORMED PAVEMENT MARKING TAPE	LIN FT	284				
13	2582.503	4" SOLID LINE MULTI COMP	LIN FT	18335				
13		4" BROKEN LINE MULTI COMP	LIN FT	1440				
13	2582.503	4" DBLE SOLID LINE MULTI COMP	LIN FT	250				

	CONSTRUCTION NOTES
1	CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.
2	ITEM USED TO MOVE EXCESS RECLAIM MATERIAL AT THE RECLAIM AREA LIMITS TO CREATE A SMOOTH TRANSITION BETWEEN THE PROPOSED AND EXISTING PAVEMENT.
3	GRAVEL BASE FOR CONCRETE / BITUMINOUS DRIVEWAYS, AND BITUMINOUS STREET APPROACHES. ALSO 7 TONS FOR EACH GRAVEL ENTRANCE AND ELMCREST REALIGNMENT.
4	MATERIAL SHALL BE HAULED AND USED FOR PROFILE CORRECTION AREAS. ITEM INCLUDES PLACEMENT, SHAPING, COMPACTION, AND MAINTENANCE OF MATERIAL. EXCESS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
5	THIS ITEM INCLUDES: COMMON EXCAVATION, SELECT GRANULAR BORROW, TOPSOIL AND AGG BASE CL-5. (SEE PAGE 12 FOR QUANTITIES) SHAPING OF SUB-GRADE AND AGGREGATE BASE ARE INCIDENTAL TO CONSTRUCT TURN LANE ITEM.
6	ITEM FOR BITUMINOUS DRIVEWAYS. DRIVEWAYS SHALL BE PAVED AFTER MAINLINE PAVING AND BEFORE FINAL STRIPING.
7	ITEM FOR BITUMINOUS STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE PAVING AND BEFORE FINAL
8	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.
9	ITEM USED FOR DITCH GRADING FOLLOWING CONSTRUCTION OF RIGHT TURN LANE. ITEM SHALL BE USED ONLY AS NECESSARY AS DETERMINED BY THE ENGINEER.
10	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 OF RED SIGNS SHALL BE INPLACE WHENEVER PAVEMENT MARKINGS ARE NOT PRESENT.
11	2 MESSAGE BOARDS, ONE ON EACH END OF PROJECT, WILL BE INSTALLED 10 DAYS PRIOR TO ANY CONSTRUCTION; REFERENCE STRIPING PLAN FOR DETAILS.
12	CENTERLINE AND LANE DESIGNATION SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON EACH NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE PRIOR TO FINAL PAINT STRIPING
13	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING.
14	MAILBOXES SHALL BE INSTALLED AT THE EXISTING MAILBOX LOCATION OR AS DIRECTED BY THE LOCAL POSTAL AUTHORITY. THE CONTRACTOR IS RESPONSIBILE FOR CONTACTING THE LOCAL POSTAL AUTHORITY. MAILBOX REMOVAL AND ALL MATERIALS NECESSARY FOR INSTALLATION ARE INCIDENTAL TO THIS ITEM.
15	ITEM USED AT ENGINEER'S DISCRETION FOR RESTORATION OF DISTURBED AREAS ALONG DRIVEWAYS, STREET APPROACHES AND BEHIND CURB
16	TYPE 1 FERTILIZER AND TYPE 25-121 SEED ARE INCIDENTAL TO THIS ITEM. SEE "BASIS OF PLANNED QUANTITIES" FOR APPLICATION RATES.
17	THIS ITEM INCLUDES 550 CU YD FOR THE ELMCREST AVENUE REALIGNMENT

	BASIS OF PLANNE	D 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	
2575	SEED MIXTURE 25-121	61 LBS./ ACRE	
2574	FERTILIZER TYPE 1	350 LBS./ ACRE	

MNDOT STANDARD PLATES						
PLATE NUMBER	DESCRIPTION					
8000J	CHANNELIZERS (3 SHEETS)					
9350A	MAILBOX SUPPORT (SWING-AWAY TYPE)					

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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 END INSER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: JOSEPH J. MACPHERSON DATE: LICENSE NO. 46732

DRAWN BY ___BRM__ DATE 1/28/2019 DESIGN BY ____BRM___ DATE _1/28/2019

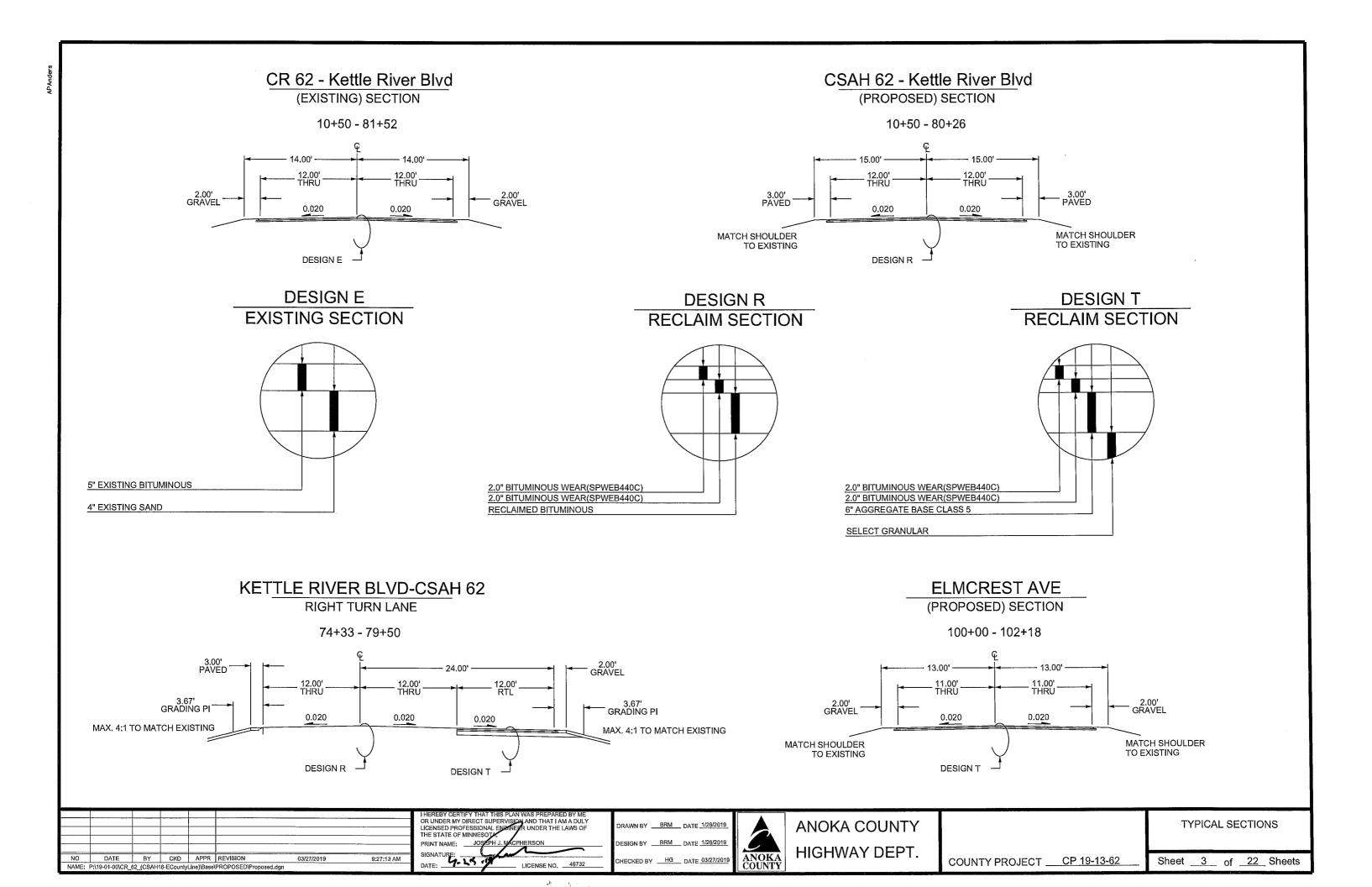
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ANOKA COUNTY HIGHWAY DEPT.

STATEMENT OF ESTIMATED QUANTITIES

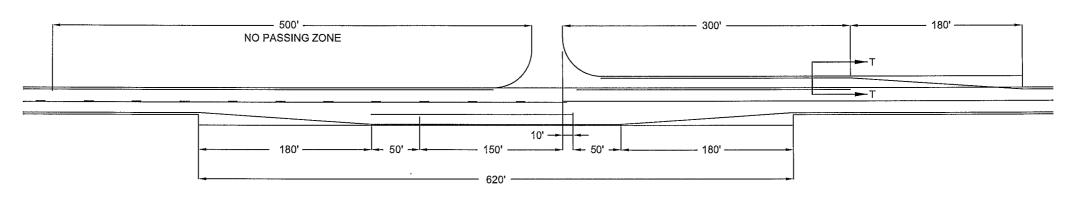
COUNTY PROJECT ____CP 19-13-62

Sheet 2 of 22 Sheets



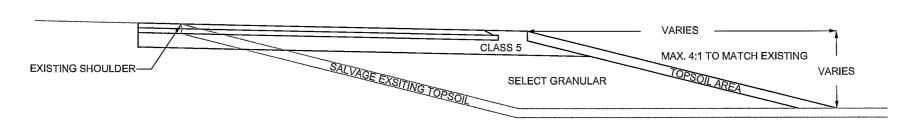
RIGHT TURN AND BYPASS LANE

GENERAL LAYOUT
PLAN VIEW



RIGHT TURN LANE

SECTION T - T



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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION NO THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: JOSEPH J. MACPHERSON

SIGNATURE:

ANOKA COUNTY ANOKA COUNTY HIGHWAY DEPT.

TYPICAL SECTIONS

COUNTY PROJECT ____CP 19-13-62

Sheet 4 of 22 Sheets

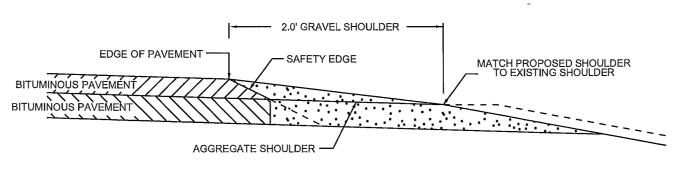
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03/27/2019

SHOULDER DETAIL

BITUMINOUS SAFETY EDGE GRAVEL SHOULDER

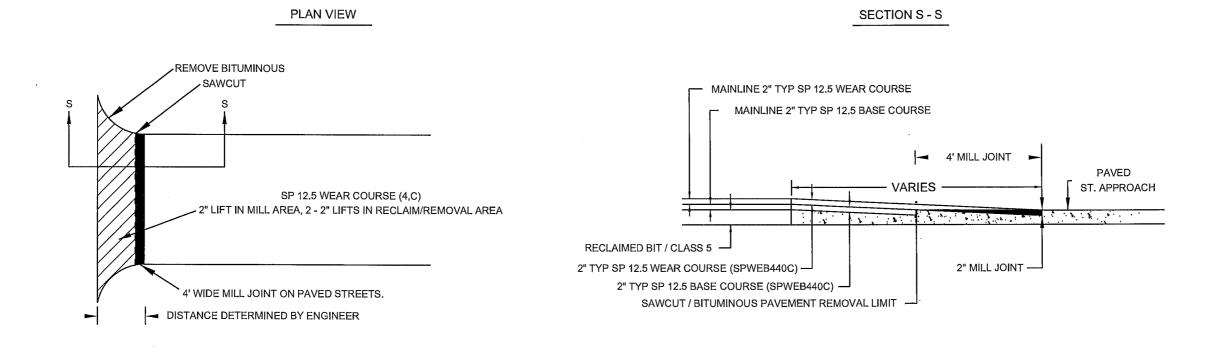


SAFETY EDGE TO BE USED IN ALL NON-CURB AREAS ON SHOULDER.

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

STREET APPROACH DETAIL (RECLAIM)

BITUMINOUS STREET



ANOKA COUNTY

HIGHWAY DEPT.

COUNTY PROJECT ___ CP 19-13-62

DETAILS

Sheet 5 of 22 Sheets

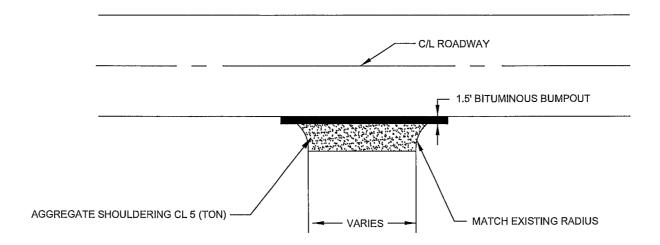
OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF

LICENSE NO. 46732

LICENSED PROFESSIONAL
THE STATE OF MINNESOP
PRINT NAME: JOSEF

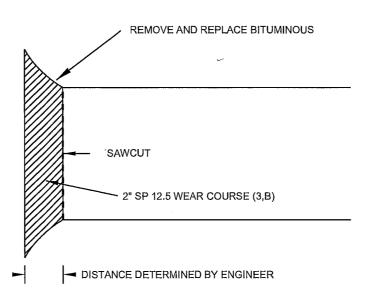
DRIVEWAY DETAIL

GRAVEL / FIELD ENTRANCE

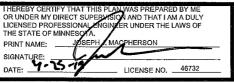


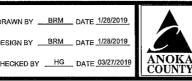
RECLAIM AREA - DRIVEWAY DETAIL

PLAN VIEW



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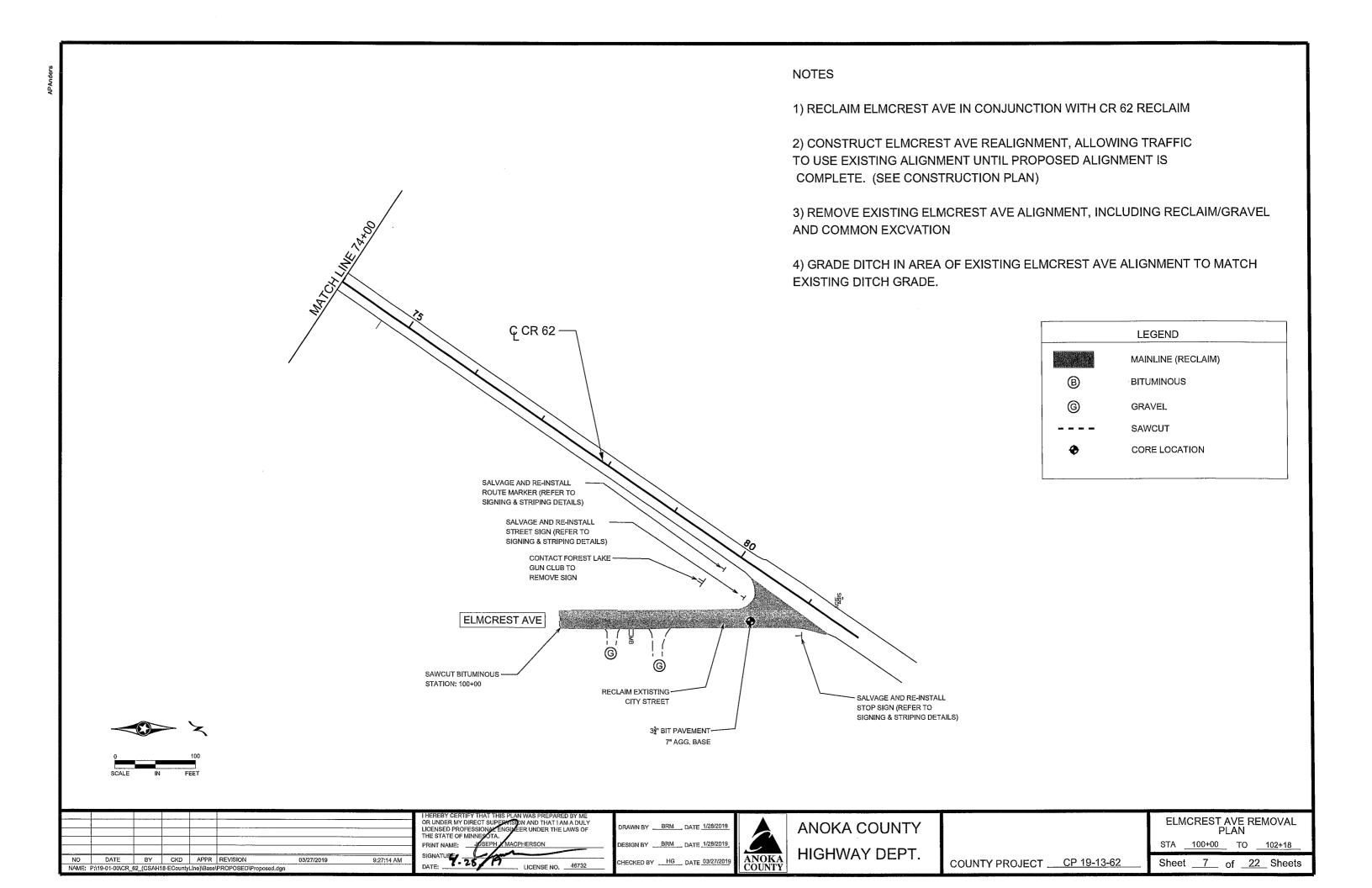


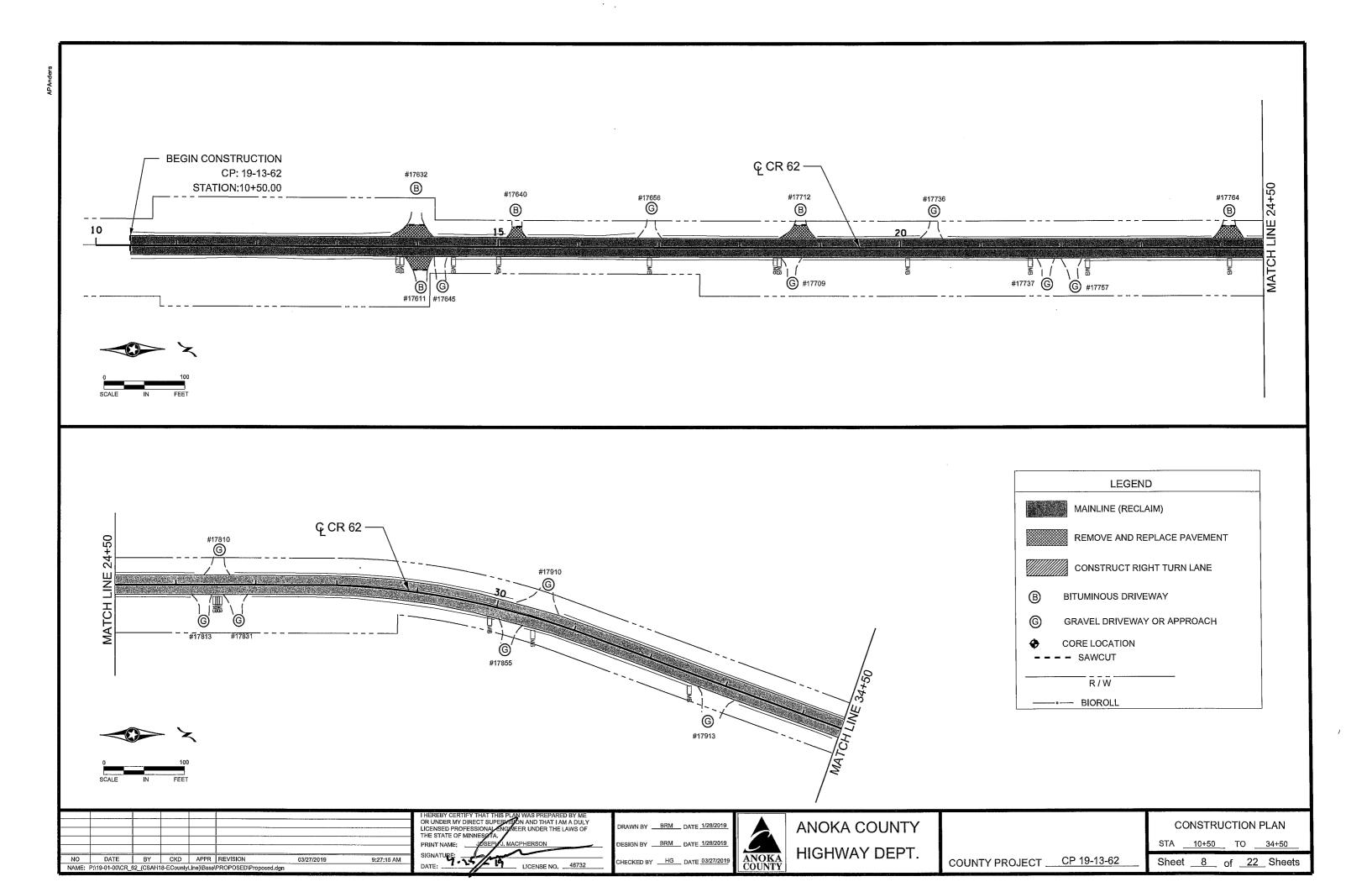


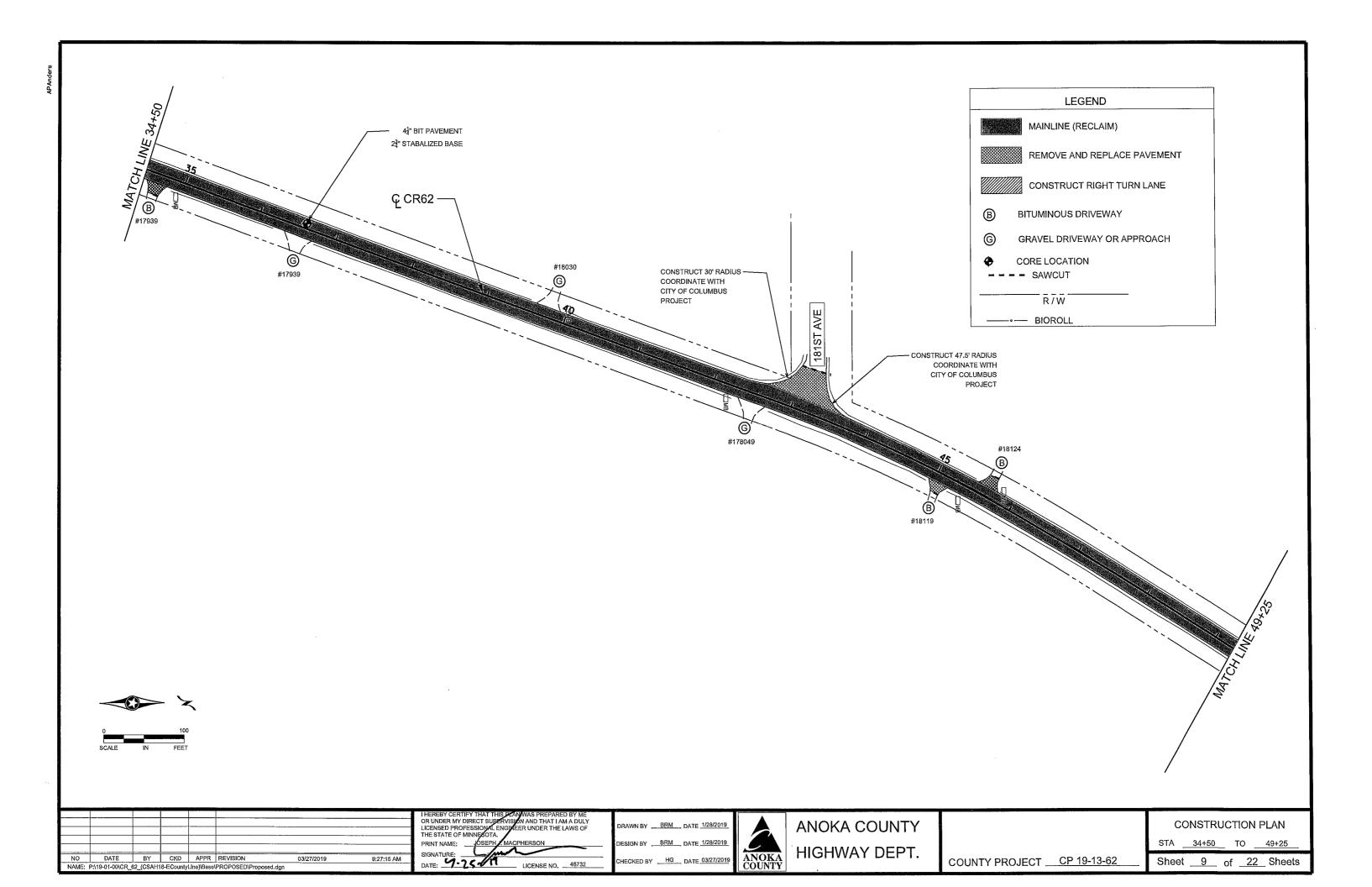
ANOKA COUNTY HIGHWAY DEPT. DETAILS

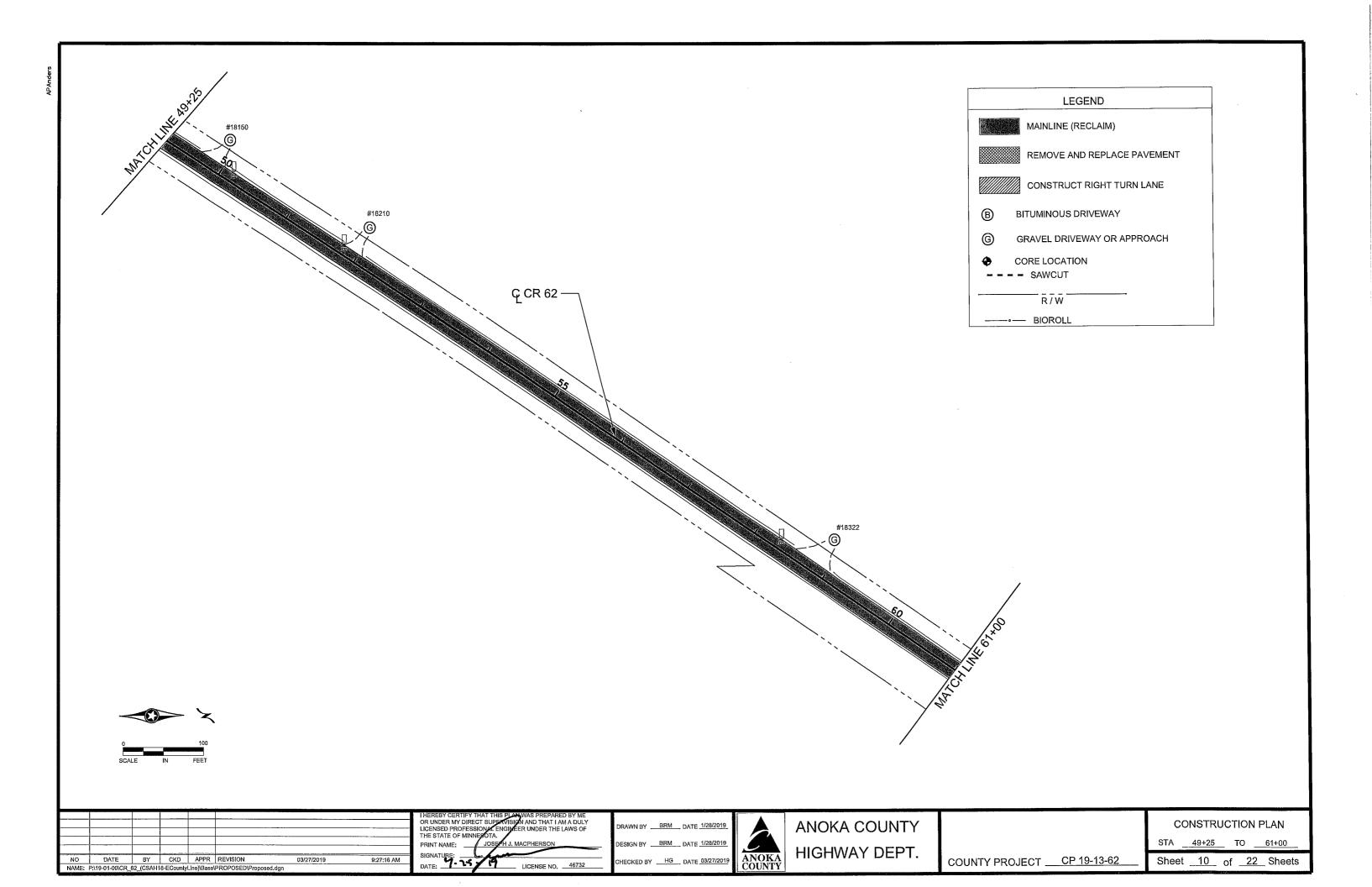
COUNTY PROJECT <u>CP 19-13-62</u>

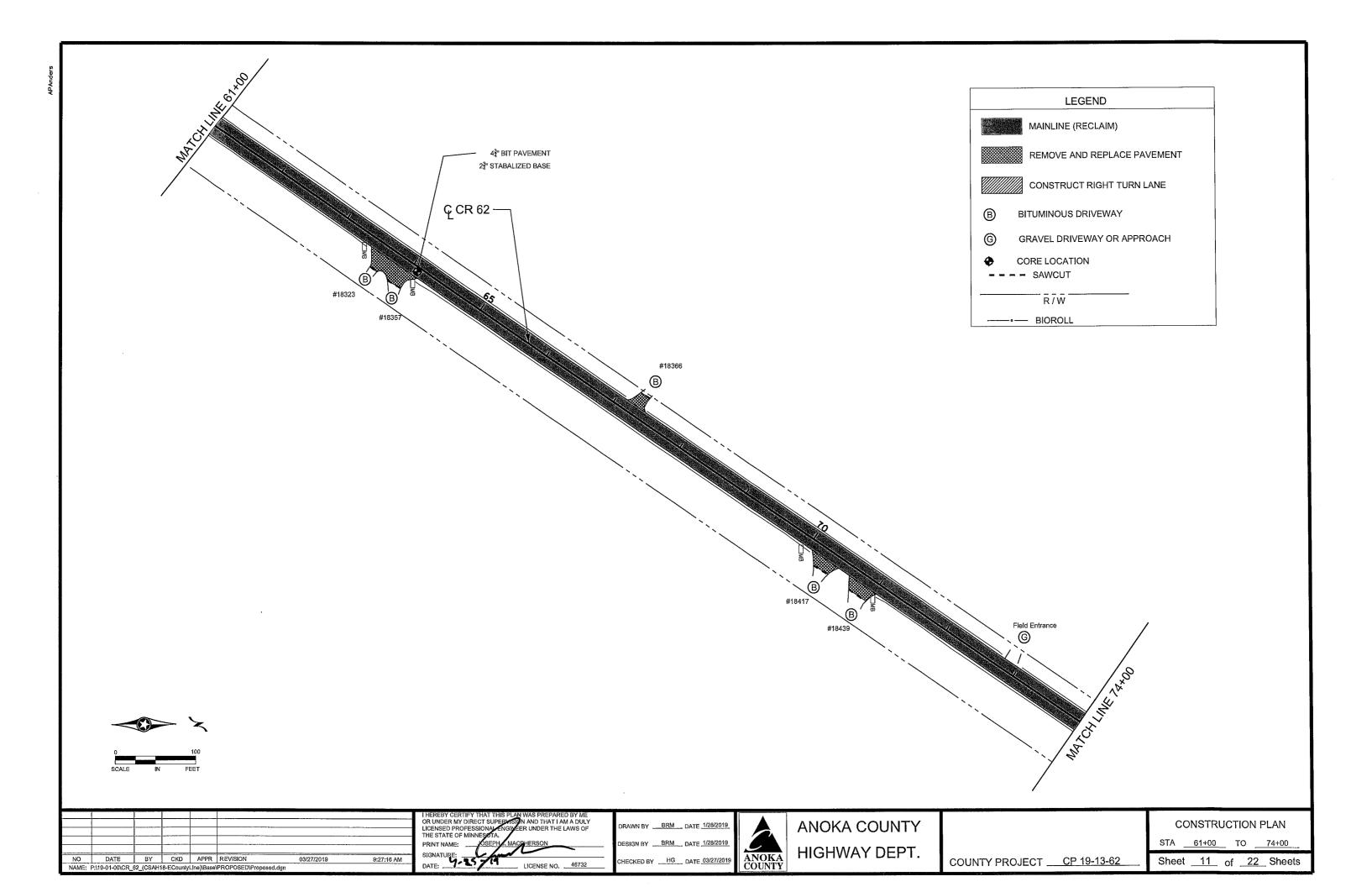
Sheet 6 of 22 Sheets











HECKED BY HG DATE 03/27/2019

LICENSE NO. __46732

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COUNTY PROJECT __CP 19-13-62

STA <u>74+00</u> TO <u>80+26</u> Sheet 12 of 22 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 \$\frac{1}{4}\$ INCH UNDER OR \$\frac{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 BEANS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE MULTI COMP RESIN LINE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.

A MULTI COMP RESIN 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 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 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							
(TEM	UNIT	TOTAL QUANTITY					
4" SOLID LINE WHITE - MULTI COMP	LINFT	15200					
4" SOLID LINE YELLOW - MULTI COMP	LIN FT	3135					
4" SOLID DOUBLE LINEYELLOW - MULTI COMP	LINFT	250					
4" BROKEN LINE YELLOW - MULTI COMP	LINFT	1440					

1 10' STRIPE, 40' GAP

SYMBOLS & MATERIALS LEGEND

CROSSWALK BLOCK WHITE-POLY PREFORM

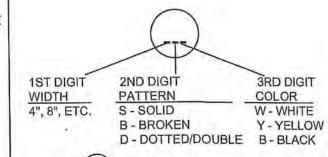
A PAVEMENT MESSAGE (LEFT ARROW)
POLY PREFORM

STRIPING KEY

CIRCLE - MULTI --- SQUARE - POLY PREFORM

TRIANGLE - PAINT

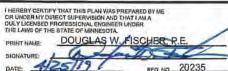
PENTAGON - REMOVABLE PREFORMED
PLASTIC MARKING



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

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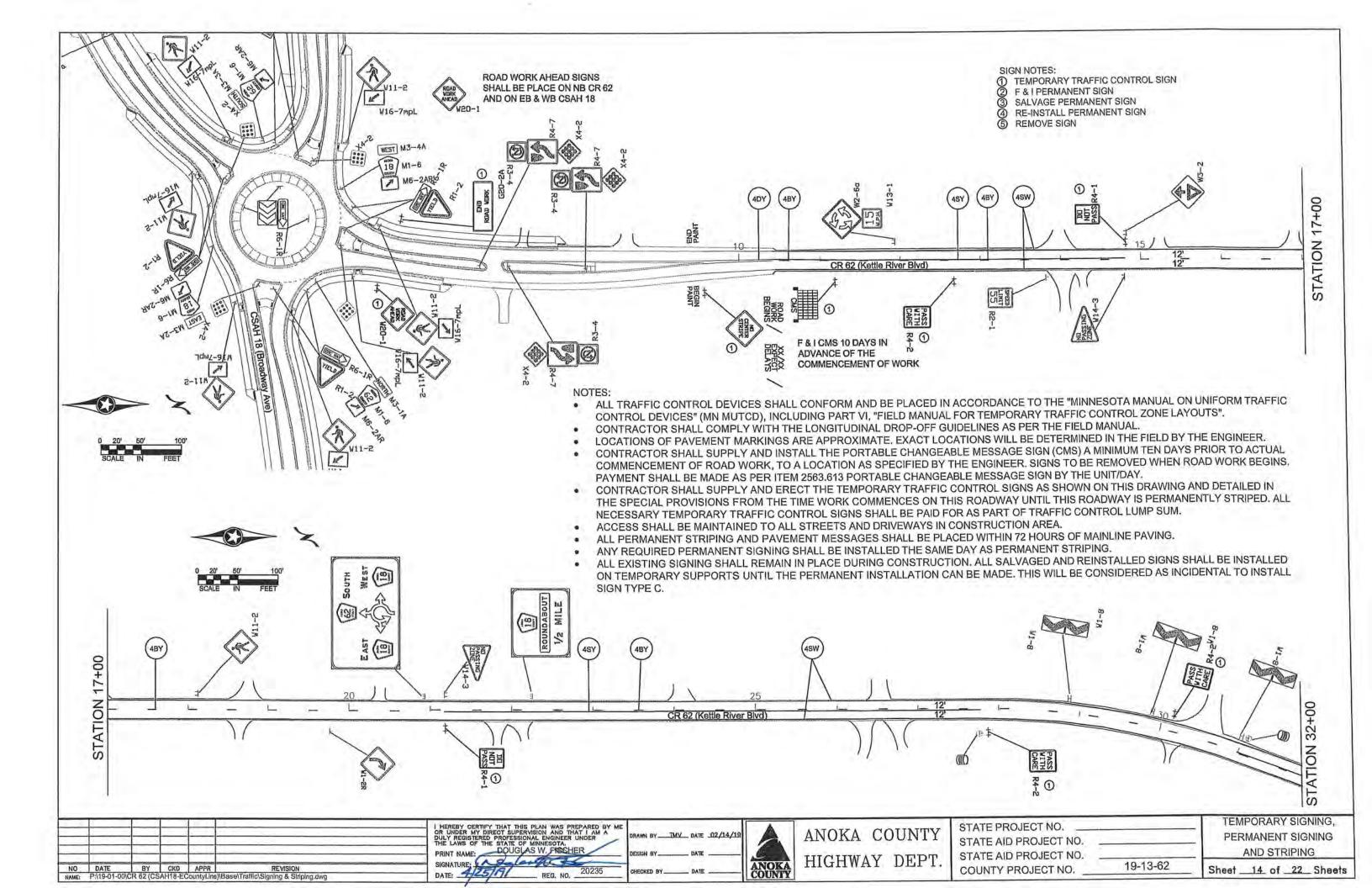
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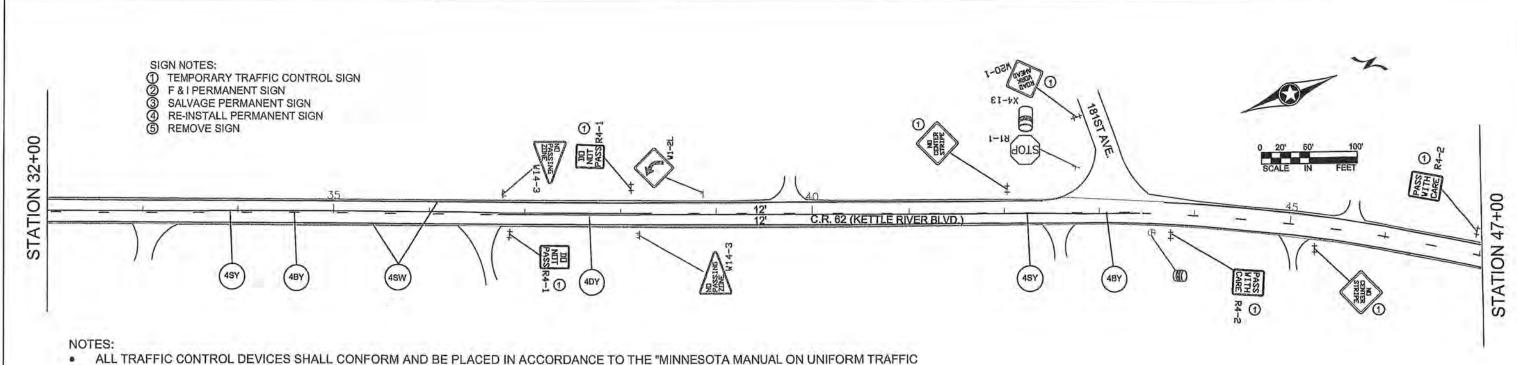




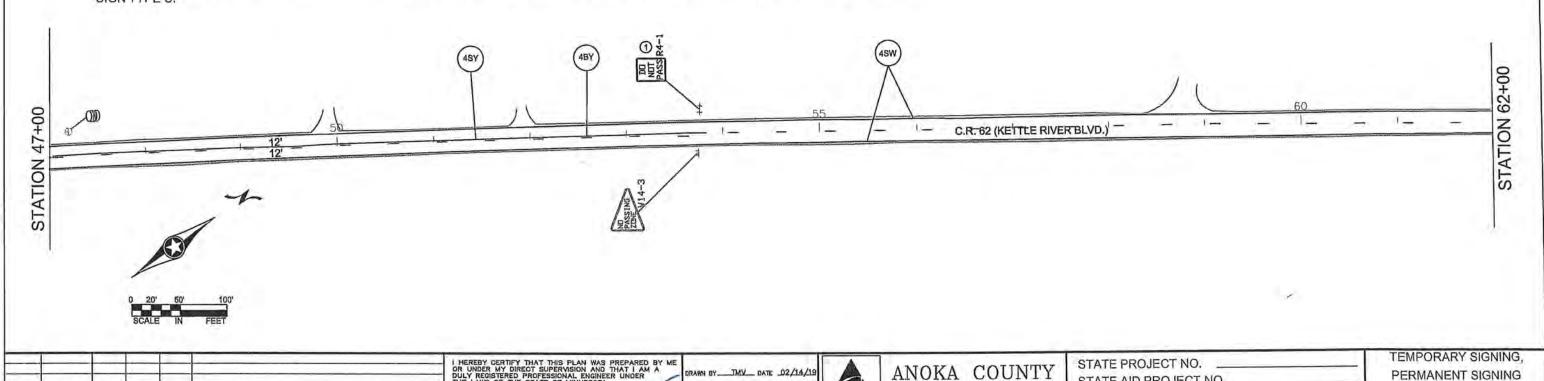
ANOKA COUNTY HIGHWAY DEPT. STATE PROJECT NO. STATE AID PROJECT NO. COUNTY PROJECT NO. STATE NO. STATE AID PROJECT NO. STATE
PERMANENT MARKING TABULATION

Sheet 13 of 22 Sheets





- 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 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, 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.



STATE AID PROJECT NO.

STATE AID PROJECT NO.

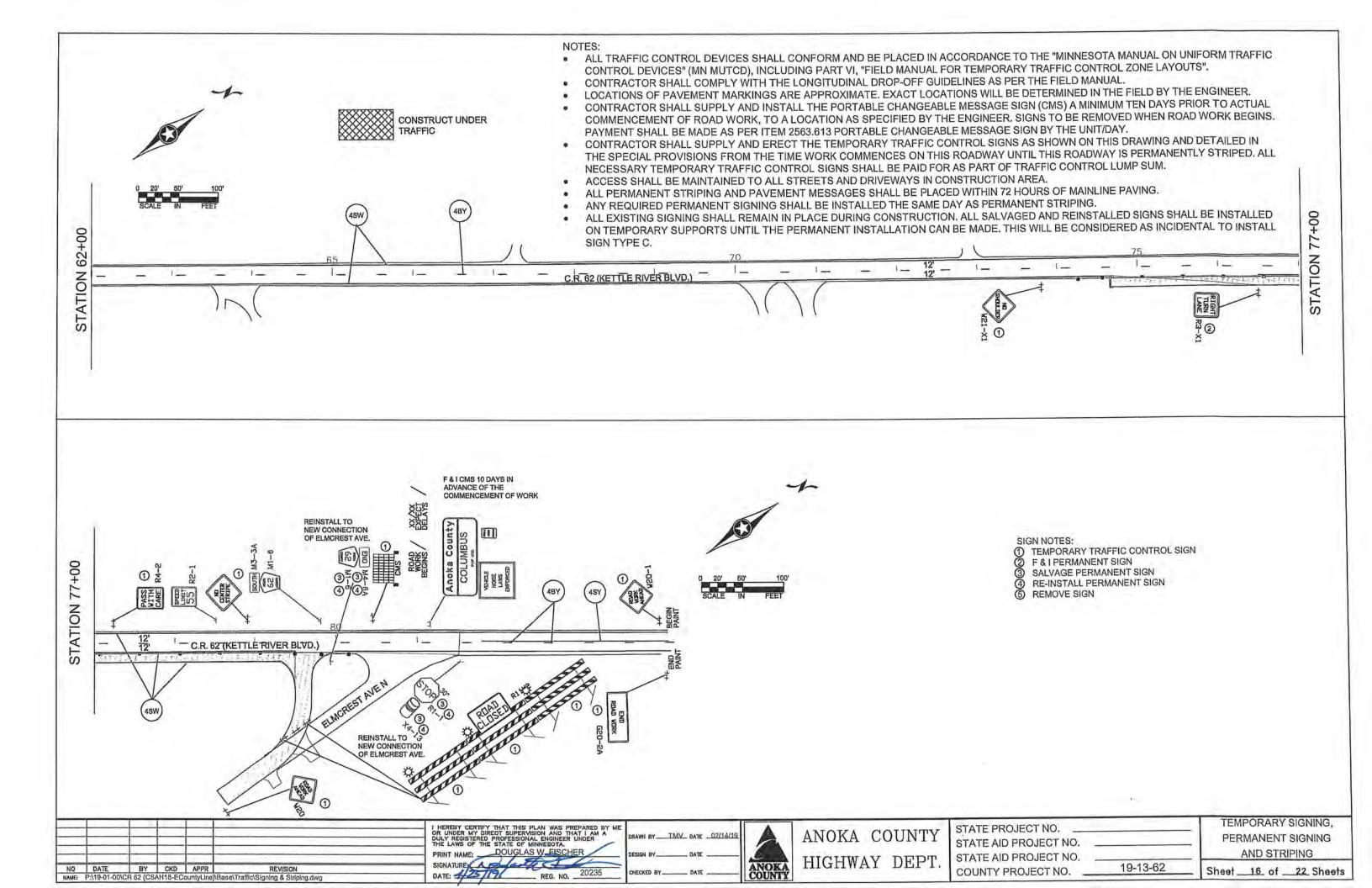
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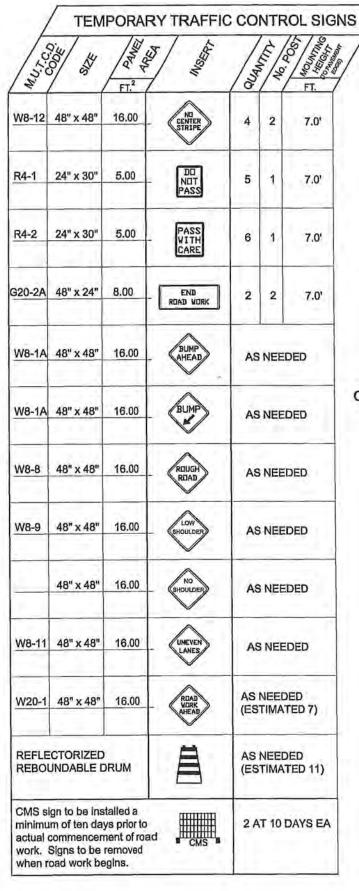
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HIGHWAY DEPT.

AND STRIPING

Sheet __15_ of _22_ Sheets





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	48" x 30" 8 FOOT	8 FOOT READ R11-CLESED 8 FOOT

CHANGEABLE MESSAGE BOARD - MESSAGE SEQUENCE LAYOUT

	R	0	Α	D		
	W	0	R	K		
В	E	G	T	N	s	

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

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D	E	L	Α	Υ	S	

		EXISTING	SIGN TAB		
STATION	ADDRESS DESCRIPTION	SALVAGE SIGN TYPE C	RE-INSTALL SIGN TYPE C	SIGN NUMBER	SIGN LEGEND
	(NOTES)	EACH			
80+10	RT	1	1	M4-6a M1-6	END 62 RTE MKR
81+25	RT	1	1	R1-1	30" STOP DELINEATOR
	TOTAL	4	1		

			SIGN PAN	ELS TYPE	C		
M.U.T.C.D. CODE	SIZE	INSERT	QUANTITY	SQ FT PANEL AREA	SQ FT TOTAL AREA	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT
R3-X1	30" x 30"	R EGHT TURN LANE	1	6.25	6.25	1:	7.0'

SIZE	INSERT	QUANTITY	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT To pavement edge
24" x 12" 24" x 24"	END 62	1	1	7.01
30" x 30" 4" x 15"	STOP P	1	1	7.0'

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 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. 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.

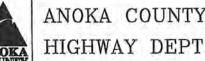
-		1			
		-			
NO	DATE	BY	CKD	APPR	REVISION

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

PRINT NAME: DOUGLAS W.EISCHER

SIGNATURE: REG. NO. 20235

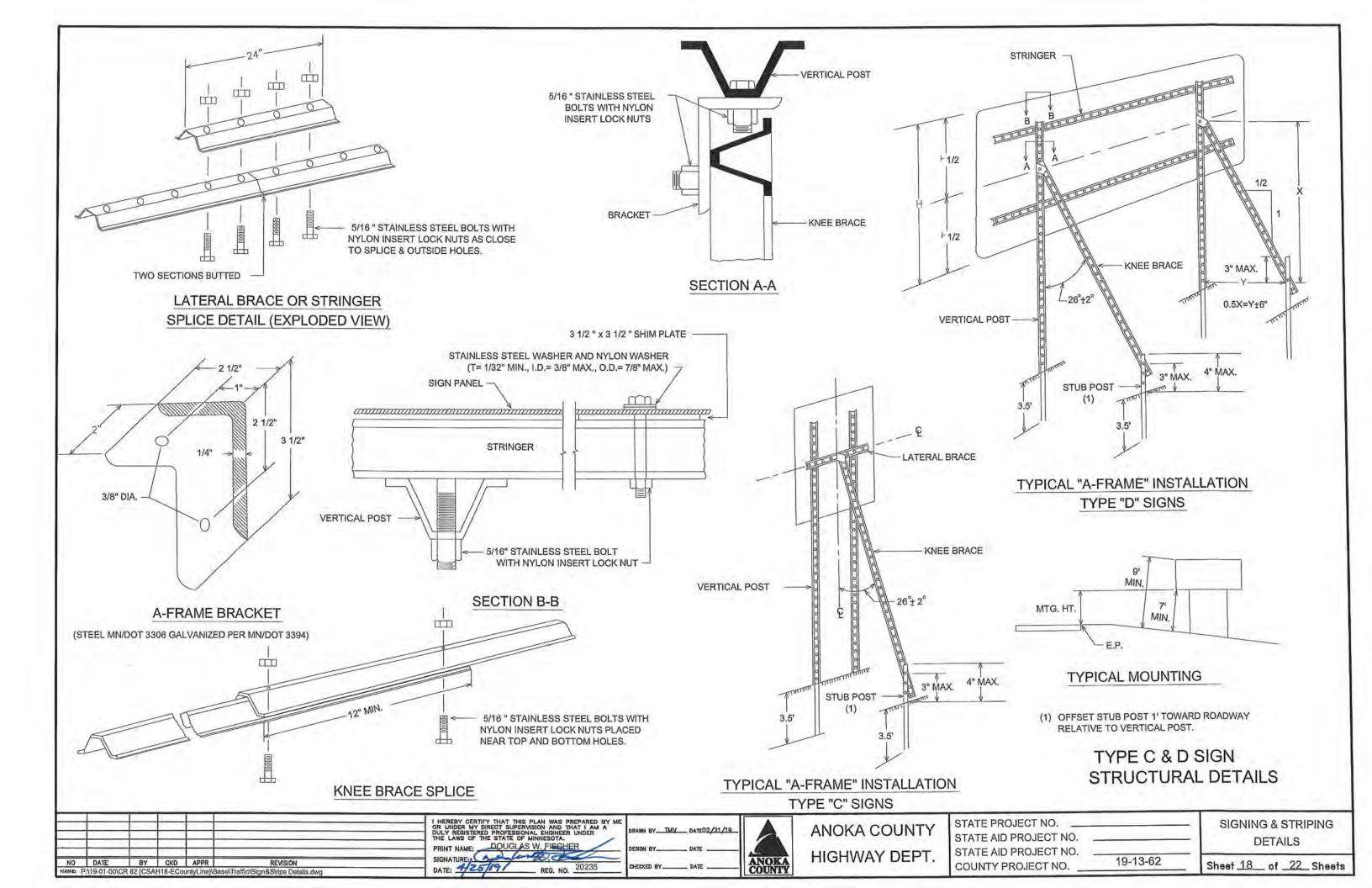
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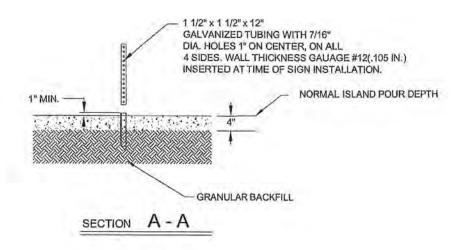


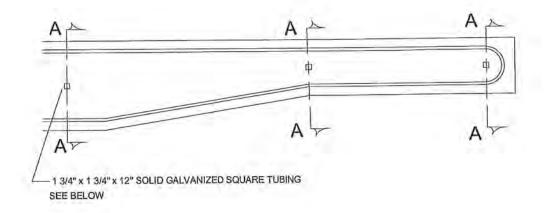
STATE PROJECT NO. _______
STATE AID PROJECT NO. ______
STATE AID PROJECT NO. ______
COUNTY PROJECT NO. ______
19-13-62

TEMPORARY SIGNING, PERMANENT SIGNING & STRIPING QUANTITIES

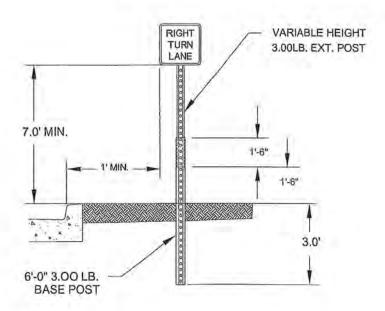
__ Sheet __17_ of __22_ Sheets



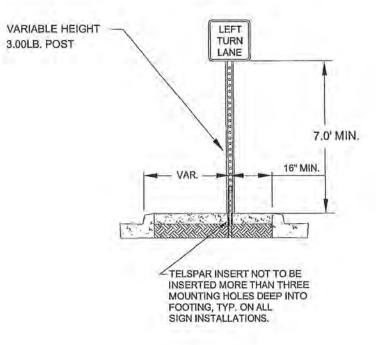




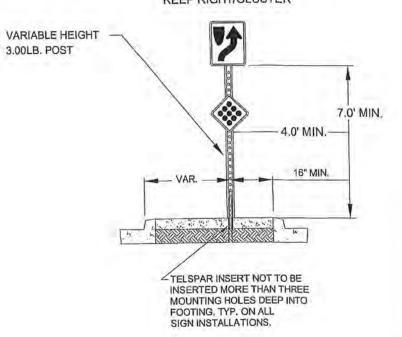
GROUND POST MOUNT SIGN INSTALLATION TYPICAL



ISLAND MOUNT BREAK-AWAY SIGN INSTALLATION TYPICAL

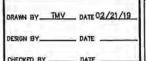


ISLAND MOUNT BREAK-AWAY SIGN SIGN INSTALLATION TYPICAL KEEP RIGHT/CLUSTER



19-13-62

						I HEREBY CERTIFY THAT THIS PLAN WAS PREPAR OR UNDER MY DIRECT SUPERVISION AND THAT I	AM A
						DULY REGISTERED PROFESSIONAL ENGINEER UNDE THE LAWS OF THE STATE OF MINNESOTA.	E.
0	DATE P:\19-01-00\CE	BY	CKD	APPR	REVISION ResetTraffictSign&String Details dwg	SIGNATURE: A STATE OF THE STATE	235

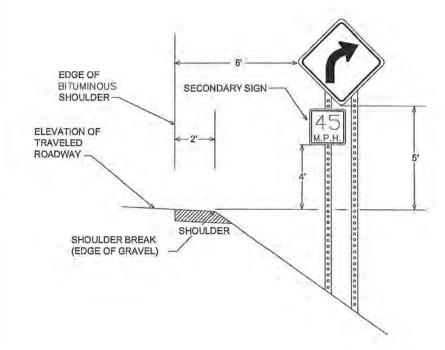




ANOKA COUNTY HIGHWAY DEPT. STATE PROJECT NO. ____ STATE AID PROJECT NO. ___ STATE AID PROJECT NO. ___ COUNTY PROJECT NO. ___ SIGNING & STRIPING DETAILS

Sheet 19 of 22 Sheets

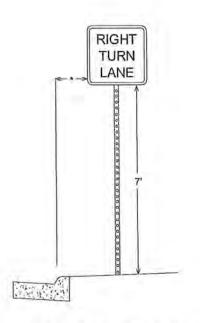
TYPICAL SIGN PLACEMENT (RURAL)



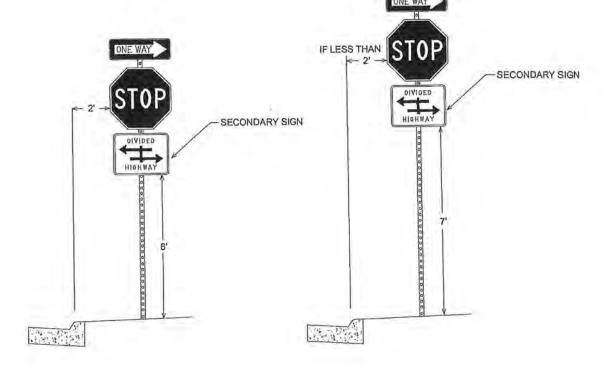
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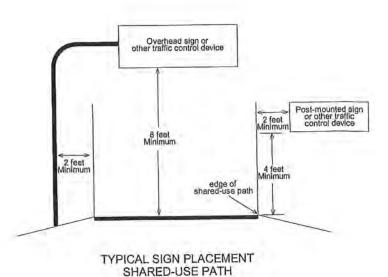
- ALL DIMENSIONS ARE MINIMUMS
- MAINTAIN A CLEAR DISTANCE OF 2' BETWEEN SIGNS AND BITUMINOUS TRAIL
- 7' SIGN CLEARANCE IF A CLEAR DISTANCE OF 2' BETWEEN SIGNS AND BITUMINOUS TRAIL CANNOT BE MAINTAINED

TYPICAL SIGN PLACEMENT (URBAN)

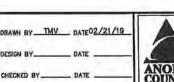








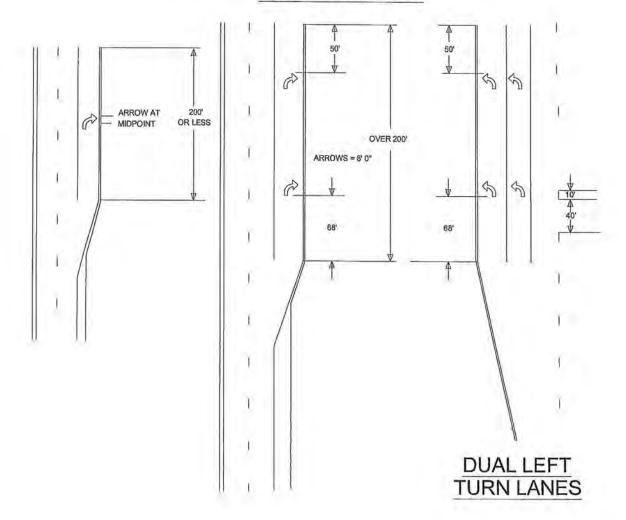
						I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: DOUGLAS W, FISCHER, P.E.	
NO	DATE P:\19-01-00\C	BY R 62 (CSA	CKD H18-ECo	APPR untyLine)\Base\Tra	REVISION affic\Sign&Stripe Details.dwg	DATE: REG. NO. 20235	

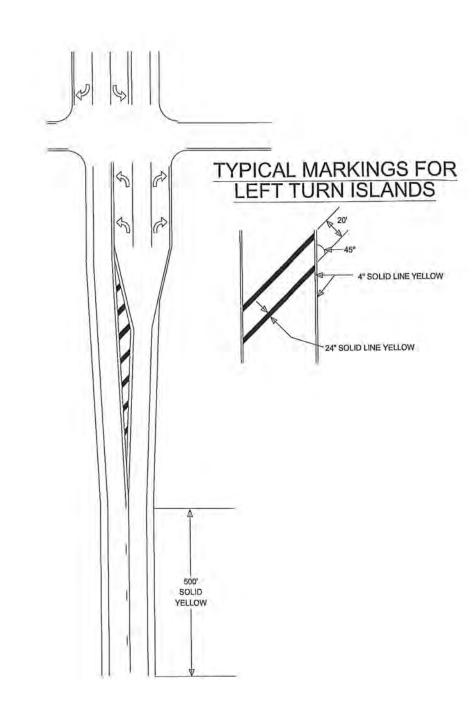


ANOKA COUNTY HIGHWAY DEPT. STATE PROJECT NO. SIGNING STATE AID PROJECT NO. STATE AID PROJECT NO. 19-13-62 Sheet 20

SIGNING & STRIPING
DETAILS
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TYPICAL MESSAGE PLACEMENT FOR TURN LANES





						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.	DRA
						PRINT NAME: DOUGLAS W EISCHER, P.E	DES
NO NAME: 1	DATE 2:\19-01-00\C	BY CSA	CKD 118-ECou	APPR untyLine)\Base\Tra	REVISION https://doi.org/10.0000/10.000000000000000000000000000	SIGNATURE: 125 REG, NO. 20235	CHE

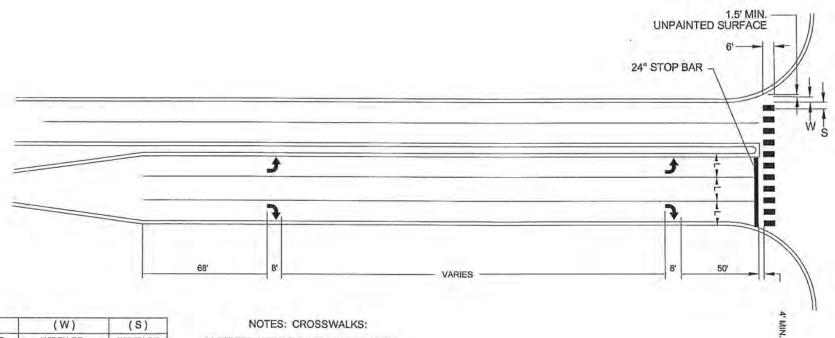
E	DRAWN BY_TMV	DATE 02/21/19	
-	DESIGN BY	DATE	
-	CHECKED BY	DATE	1

ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. ______
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. _____

SIGNING & STRIPING
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MARKINGS FOR PEDESTRIAN CROSSWALKS



(L)	(W)	(S)
WIDTH OF INSIDE LANE	WIDTH OF PAINTED AREAS	WIDTH OF SPACE
9'	2.0'	2.5'
10'	2.5'	2.5'
11'	2.5'	3.0'
12'	3.0'	3.0'
13'	3.0'	3.5'

- PAINTED AREAS ARE TO BE CENTERED ON CENTER AND LANE LINES, EVEN IF INTERSECTION IS NOT ALIGNED.
- 2.) LOCATION OF ZEBRA CROSSWALKS AND STOP BARS, SIGNAL LOOPS AND PED RAMPS ARE APPROXIMATE. FINAL LOCATIONS ARE TO BE DETERMINED AND FIELD VERFIED DURING CONSTRUCTION BY THE FIELD ENGR.
- 3.) ZEBRA CROSSWALKS ARE TO BE PARALLEL TO THE DRIVING LANE OR LANES. EVEN IF THE STREET IS ON AN ANGLE TO THE INTERSECTION.
- A MIN. OF 1.5' (450mm) CLEAR DISTANCE MUST BE LEFT ADJACENT TO THE CURB. IF LAST PAINTED AREA FALLS INTO THIS AREA, IT MUST BE OMITTED.
- 5.) ON TWO LANE STREETS, USE SPACING SHOWN FOR AN 11' (3.3mm) INSIDE LANE.

						I HEREBY CERTIFY THAT THIS PLAN WAS PREPA OR UNDER MY DIRECT SUPERVISION AND THAT I DULY REGISTERED PROFESSIONAL ENGINEER UND THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: DOUGLAS WEISCHER.
NO	DATE	BY	CKD	APPR	REVISION	SIGNATURE: DATE: REG. NO. 20
NAME:	P:\19-01-00\C	R 62 (CSA	H18-ECo	untyLine)\Base	e\Trafflc\Sign&Stripe Details.dwg	

AWN BYTMV_	DATE 02/21/19	
SIGN BY	DATE	
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ANOKA COUNTY HIGHWAY DEPT.

STATE PROJECT NO. SIGNING & STRIPING DETAILS

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