Feb 08, 2022 **STATE OF WISCONSIN** ORDER OF SHEETS Section No. DEPARTMENT OF TRANSPORTATION Typical Sections and Details **Estimate of Quantities** PLAN OF PROPOSED IMPROVEMENT Right of Way Plat Plan and Profile Section No. Standard Detail Drawings Section No. Sign Plates **V OF COLOMA** Section No. **3RD LANE TO MADISON STREET STH 21** TOTAL SHEETS = 206 **WAUSHARA COUNTY** STATE PROJECT NUMBER 6170-00-73 **NET EXCEPTION TO CL LENGTH** STA 198+40 - STA 204+60 **END PROJECT** COTTONVILLE STA 222+72 N= 119363.017 TTONVILLE **BEGIN PROJECT** E= 320680.333 STA 117+60 COTTONVILLE N= 114426.642 DESIGN DESIGNATION 6170-00-03 GG E= 313265.466 WVILLE A.A.D.T. 2023 = 5500 A.A.D.T. 2043 = 6700 D.H.V. = 800 8TH AVE = 61/39 D.D. CREE = 23.2% Coloma = 55 MPH RURAL / 35-45 MPH URBAN T-18-N ESALS = 3.900.000 CUMBERLAND **CONVENTIONAL SYMBOLS** 6TH**PLAN PROFILE GRADE LINE** CORPORATE LIMITS 1////// BURR OAK CT **CYPRESS** ORIGINAL GROUND PROPERTY LINE CUMBER MARSH OR ROCK PROFILE (To be noted as such) **CYPRESS** LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY **GRADE ELEVATION** PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC **EXISTING CULVERT** CZECH PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT STORM SEWER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN TELEPHONE COORDINATE REFERENCE SYSTEM (WISCRS), WAUSHARA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID WATER MARSH AREA COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED POWER POLE TO NAVD 88 (2012), GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A WOODED OR SHRUB AREA TELEPHONE POLE

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 6170-00-73 WISC 2022182

ORIGINAL PLANS PREPARED BY Civil Engineers, LLC ADAM J. OSYPOWSK E-38889

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

STEVENS POINT

PREPARED BY QUEST CIVIL ENGINEERS Surveyor QUEST CIVIL ENGINEERS Designer JEFF STEWART Project Manage NC REGION Regional Examin MIKE KRETSCHMER

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GENERAL NOTES

THE ALIGNMENT IN THIS PLAN IS BASED ON FIELD SURVEY SHOTS TAKEN ON THE CENTERLINE. ACTUAL ROADWAY CENTERLINE MAY DEVIATE FROM THE PLAN. NEW HMA PAVEMENT SHALL FOLLOW EXISTING ROADWAY CENTERLINE. ANY ADJUSTMENTS SHALL BE INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE DENSE, HMA PAVEMENT AND ASPHALTIC SURFACE ARE MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF ALL LANDMARKS, BENCHMARKS, AND OTHER CONTROL POINTS IN ALL AREAS WHERE SUCH LANDMARKS, BENCHMARKS, OR OTHER CONTROL POINTS MAY EXIST.

THE CONTRACTOR SHALL PROTECT ALL SURVEY MARKERS. SURVEY MARKERS SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND RESTORATION OF ANY DISTURBED AREAS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO: SEED, FERTILIZER, MULCH, EROSION MAT.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

EXISTING CURVE SUPER ELEVATION SHALL BE RESTORED IN KIND.

PRESERVE ALL EXISTING DRIVEWAY ACCESS CURB CUTS AS IDENTIFIED IN THE FIELD, EXCEPT FOR THOSE LOCATIONS TO BE MODIFIED AS SHOWN IN THE PLAN.

RUNOFF COEFFICENT TABLE

HYDROLOGIC SOIL GROUP														
		А			В			С		D				
	SLOF	E RANGE	(PERCENT)	SLOF	E RANGE	(PERCENT)	SLOF	E RANGE	(PERCENT)	SLOPE RANGE (PERCENT)				
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER		
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56		
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40		
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38		
PAVEMENT:			-						-			-		
ASPHALT	ASPHALT .7095													
CONCRETE	.8095													
BRICK	.708	0												
DRIVES, WALKS	.758		•	•		•	•			•				
ROOFS	.758	5												
GRAVEL ROADS, SHOULDERS	.406	0												

TOTAL PROJECT AREA = 11.5 ac

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES= 0.1 ac

UTILITY CONTACTS

ALLIANT ENERGY - ELECTRICITY

MATT SCHMITZ

883 WEST SCOTT STREET FOND DU LAC, WI 54937

PHONE: (920) 238-1137

E-MAIL: MATTEWSCHMITZ@ALLIANTENERGY.COM

UNION TELEPHONE COMPANY - COMMUNICATION LINE

JASON NOSKA

PO BOX 96

PLAINFIELD, WI 54966 PHONE: (715) 335-6301 CELL: (715) 570-3728

E-MAIL: JNOSKA@UNIONTEL.NET

COLOMA MUNICIPAL WATER UTILITY- WATER

WILLIAM PALAZZOLO PO BOX 353 COLOMA, WI 54930

PHONE (715) 572-2932

E-MAIL: VOCDPW1@UNIONTEL.NET

COLOMA WASTE WATER TREATMENT FACILITY - SANITARY SEWER

WILLIAM PALAZZOLO

PO BOX 353 **COLOMA, WI 54930**

PHONE (715) 572-2932

E-MAIL: VOCDPW1@UNIONTEL.NET

WE ENERGIES - GAS LARRY KOCH

1921 8TH STREET SOUTH

WISCONSIN RAPIDS, WI 54494 PHONE: (715) 421-7249

CELL: (715) 421-9293

E-MAIL: LARRY.KOCH@WE-ENERGIES.COM

DNR CONTACT

WISCONSIN DEPT OF NATURAL RESOURCES

ENVIRONMENTAL ANALYSIS AND REVIEW SPECIALISTS

WAUSHARA COUNTY BRAD BETTHAUSER

WEST CENTRAL REGION

473 GRIFFITH AVE

WISCONSIN RAPIDS, WI 54494

715-213-9064 (MOBILE)

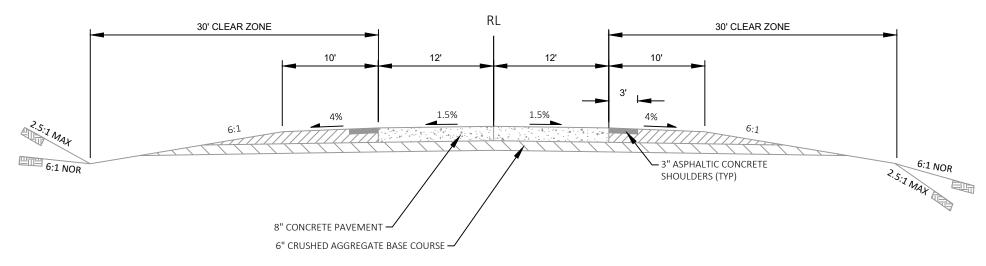
Bradley.betthauser@Wisconsin.gov



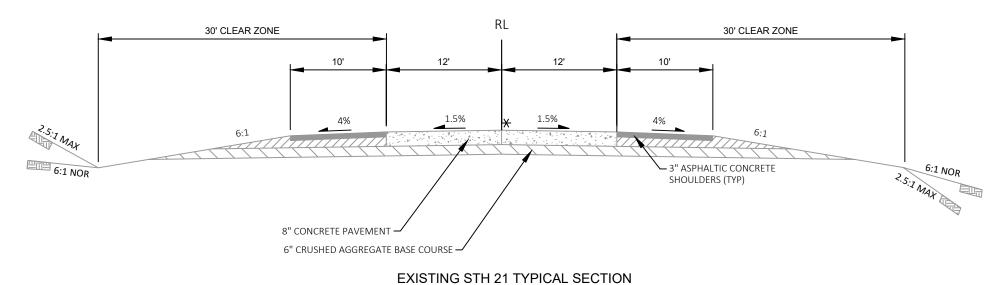
HWY: STH 21 PROJECT NO: 6170-00-73 COUNTY: WAUSHARA **GENERAL NOTES** SHEET: Ε



S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\C3D\SHEETSPLAN\020201_PO-21.DWG LAYOUT NAME - Plan 1 IN 1000 FT PLOT DATE : 12/17/2020 9:08 AM PLOT BY: ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1:750 WISDOT/CADDS SHEET 42

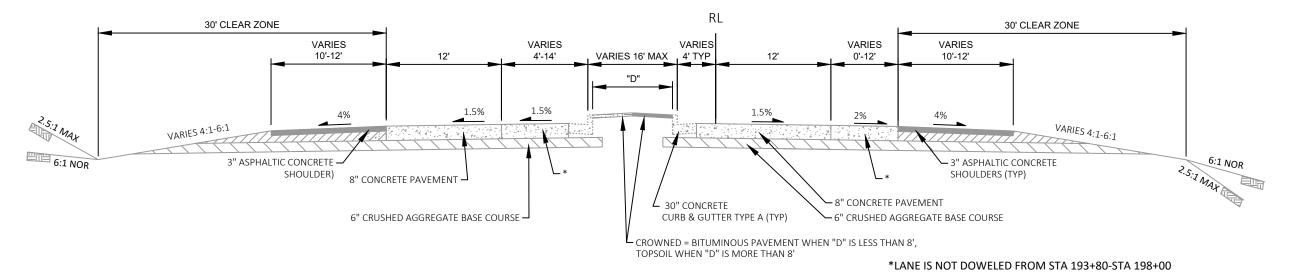


EXISTING STH 21 TYPICAL SECTION STA 118+00 - STA 179+25



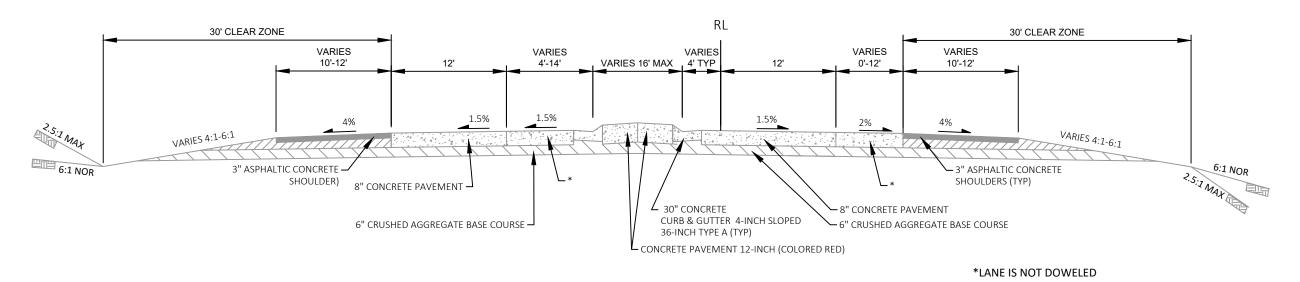
STA 179+25 - STA 193+80





EXISTING STH 21 TYPICAL SECTION

STA 193+80 - STA 194+90 STA 197+25 - STA 198+40

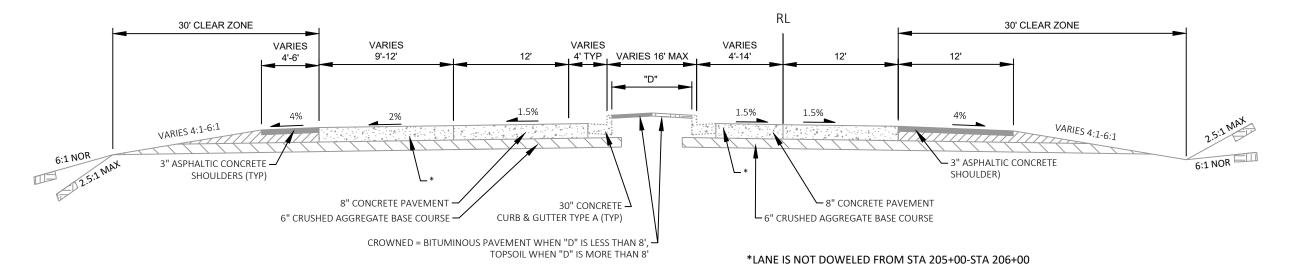


EXISTING STH 21 TYPICAL SECTION

STA 194+90 - STA 197+25

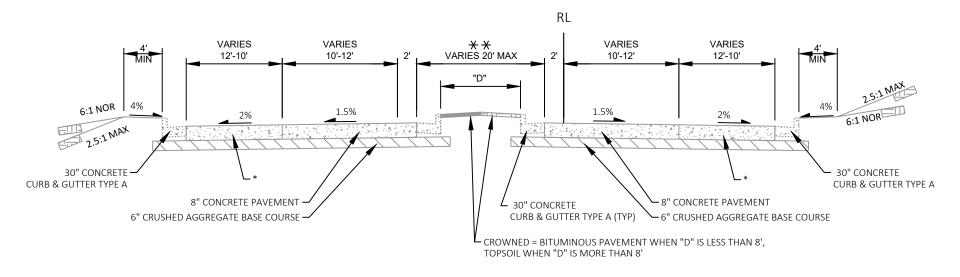
PROJECT NO: 6170-00-73	HWY: STH 21	COUNTY:	WAUSHARA		TYPICAL SECTIO	NS				SHEET	E	
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21) LAYOUT NAME - 02)\C3D\SHEETSPLAN\020301-TS-21.DWG		PLOT DATE :	8/9/2021 12:08 PM	PLOT BY :	ADAM OSYPOWSKI	PLOT NAME :	PLOT SCALE :	1 IN:10 FT		WISDOT/CADDS SHEET 4:	1





EXISTING STH 21 TYPICAL SECTION

STA 204+60 - STA 206+00



EXISTING STH 21 TYPICAL SECTION STA 206+00 - STA 211+68

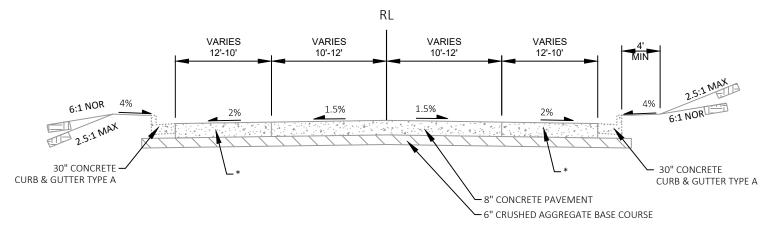
*LANE IS NOT DOWELED

**3" ASPHALTIC CONCRETE MEDIAN (VARIABLE WIDTH)
STA 209+17 - STA 211+68

Ε PROJECT NO: 6170-00-73 HWY: STH 21 COUNTY: WAUSHARA TYPICAL SECTIONS SHEET S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\C3D\SHEETSPLAN\020301-TS-21.DWG ADAM OSYPOWSKI FILE NAME : 8/9/2021 12:08 PM PLOT BY: PLOT NAME PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

LAYOUT NAME - 03

WISDOT/CADDS SHEET 42

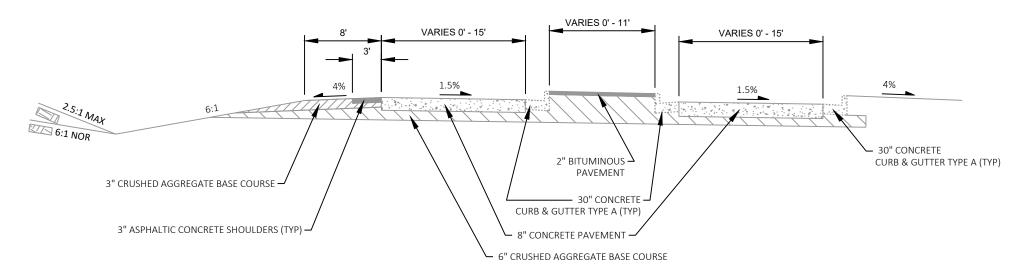


EXISTING STH 21 TYPICAL SECTION STA 211+68 - STA 222+32

*LANE IS NOT DOWELED

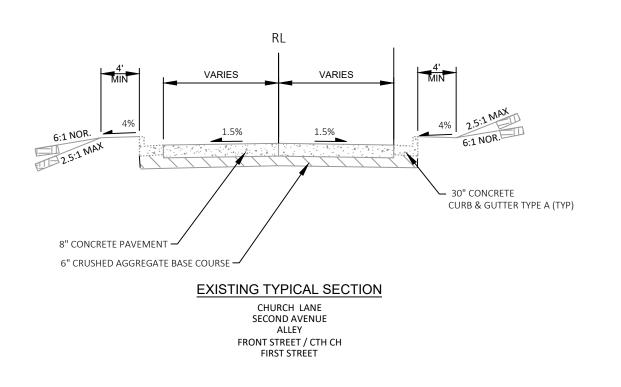
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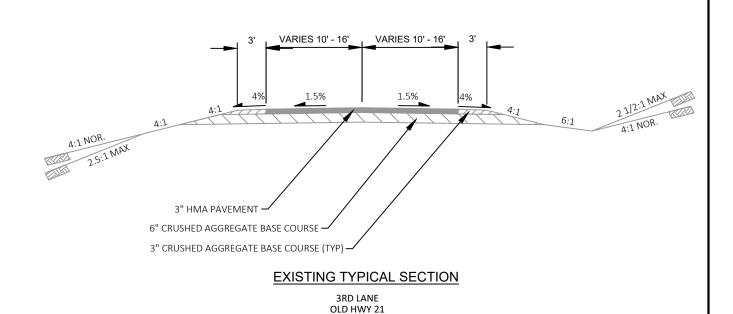


EXISTING TYPICAL SECTION

NB IH - 39 OFF RAMP



HWY: STH 21



4TH AVENUE SOUTH

S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\C3D\SHEETSPLAN\020301-TS-21.DWG FILE NAME :

PLOT BY: ADAM OSYPOWSKI

TYPICAL SECTIONS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

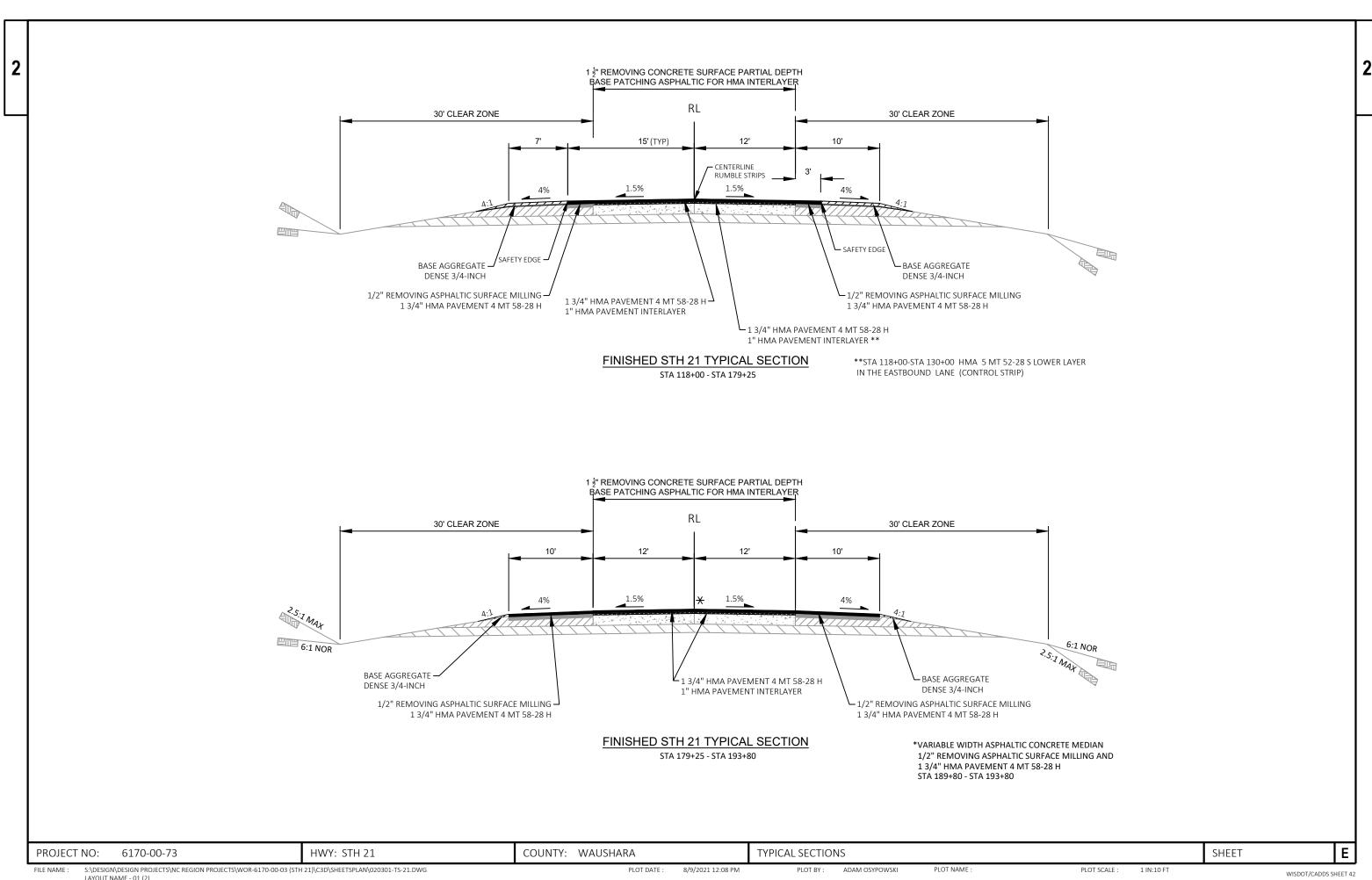
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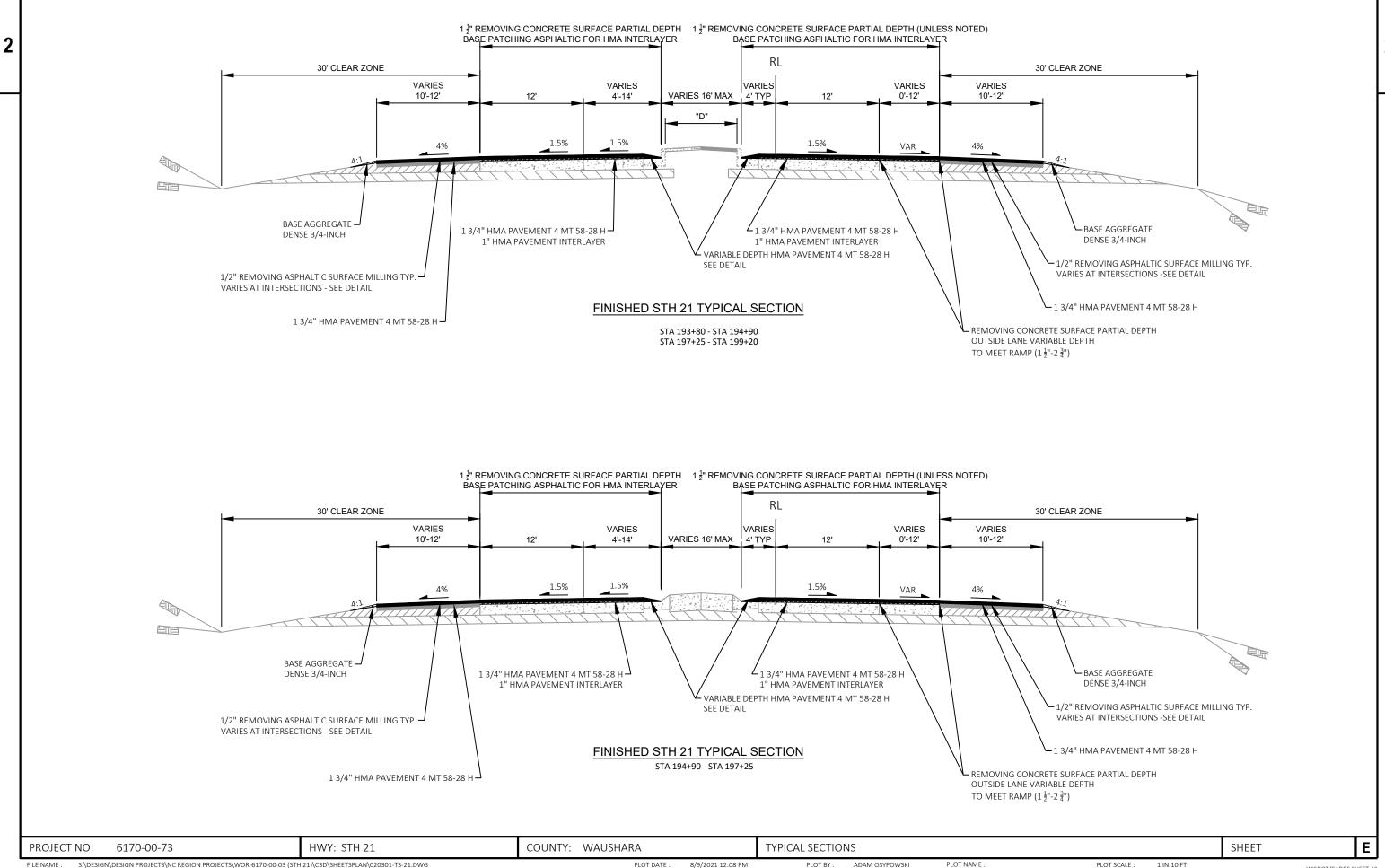
COUNTY: WAUSHARA

SHEET

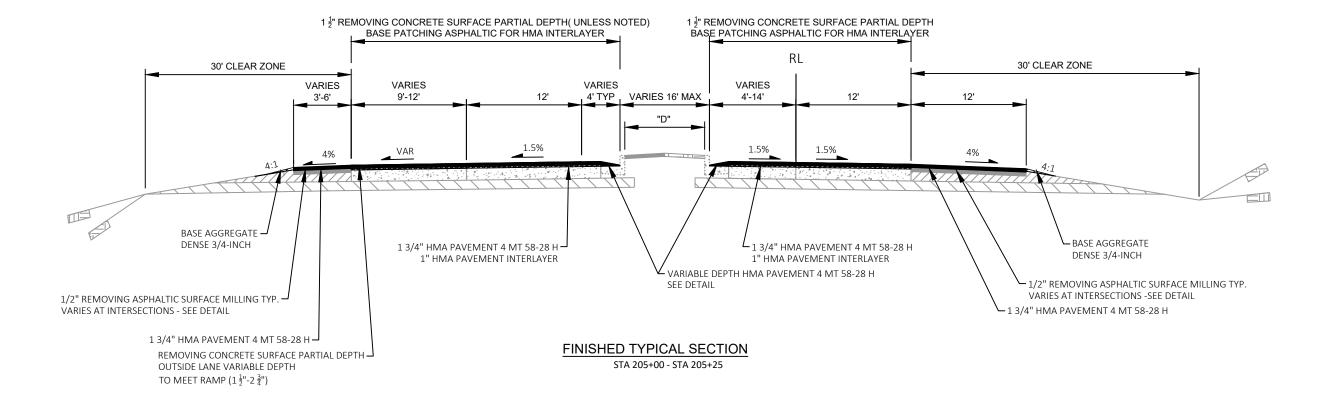
6170-00-73

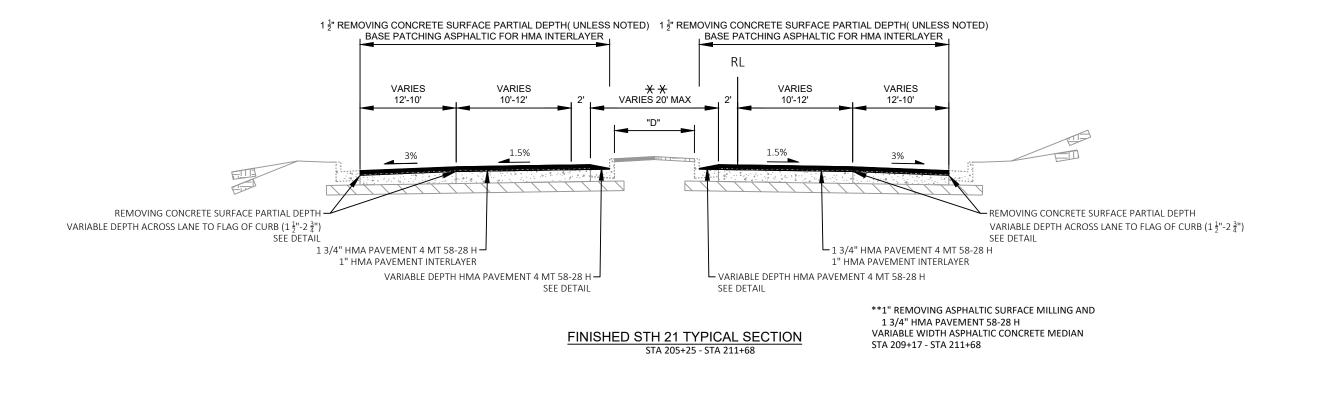
PROJECT NO:











S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\C3D\SHEETSPLAN\020301-TS-21.DWG

8/9/2021 12:08 PM

PLOT BY: ADAM OSYPOWSKI PLOT NAME

PLOT SCALE : 1 IN:10 FT SHEET

HWY: STH 21

COUNTY: WAUSHARA

TYPICAL SECTIONS

Ε

6170-00-73

PROJECT NO:

REMOVING CONCRETE SURFACE PARTIAL DEPTH (1 $\frac{1}{2}$ " UNLESS NOTED) BASE PATCHING ASPHALTIC FOR HMA INTERLAYER RL VARIES VARIES VARIES **VARIES** 12'-10' 10'-12' 10'-12' 12'-10' 6:1 NOR 1.5% 1.5% REMOVING CONCRETE SURFACE PARTIAL DEPTH VARIABLE DEPTH ACROSS LANE TO FLAG OF CURB (1 $\frac{1}{2}$ "-2 $\frac{3}{4}$ ") REMOVING CONCRETE SURFACE PARTIAL DEPTH — L 1 3/4" HMA PAVEMENT 4 MT 58-28 H SEE DETAIL VARIABLE DEPTH ACROSS LANE TO FLAG OF CURB (1 $\frac{1}{2}$ "-2 $\frac{3}{4}$ ") SEE DETAIL 1" HMA PAVEMENT INTERLAYER

> FINISHED STH 21 TYPICAL SECTION STA 211+68 - STA 222+32

PROJECT NO: 6170-00-73 HWY: STH 21 COUNTY: WAUSHARA TYPICAL SECTIONS SHEET **E**

PLOT BY: ADAM OSYPOWSKI

PLOT NAME :

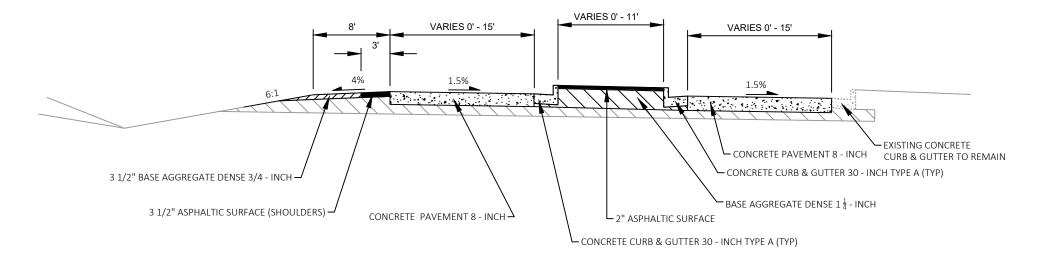
PLOT SCALE :

1 IN:10 FT

WISDOT/CADDS SHEET 42

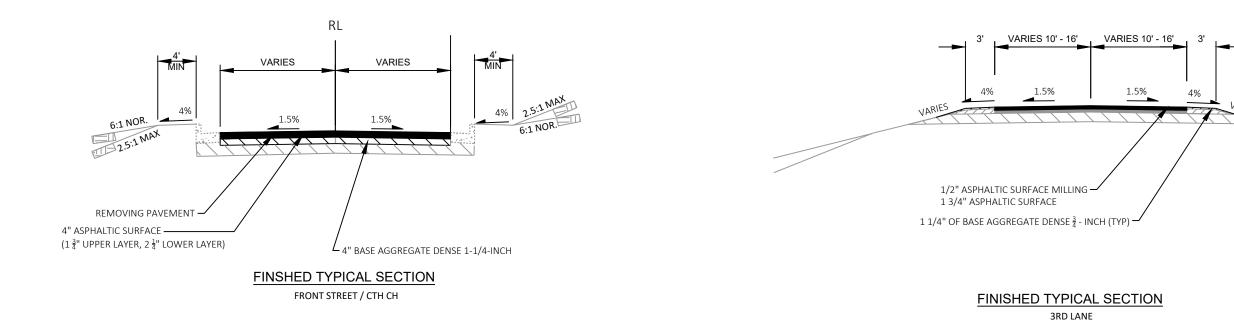
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FINISHED TYPICAL SECTION

NB IH - 39 OFF RAMP



HWY: STH 21

COUNTY: WAUSHARA

TYPICAL SECTIONS

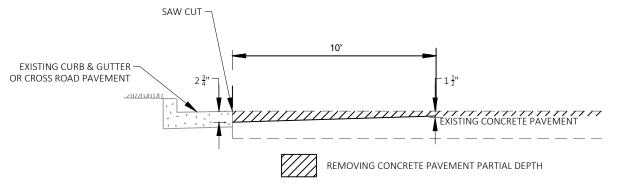
OLD HWY 21 4TH AVENUE SOUTH

Ε

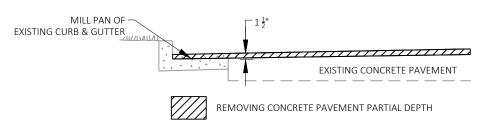
6170-00-73

PROJECT NO:

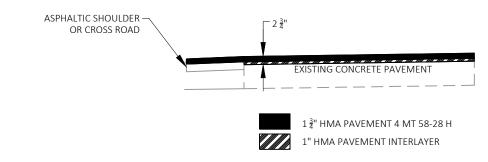
REMOVING CONCRETE SURFACE PARTIAL DEPTH AND REMOVING ASPHALTIC SURFACE MILLING AT ASPHALTIC SHOULDER OR CROSS ROAD



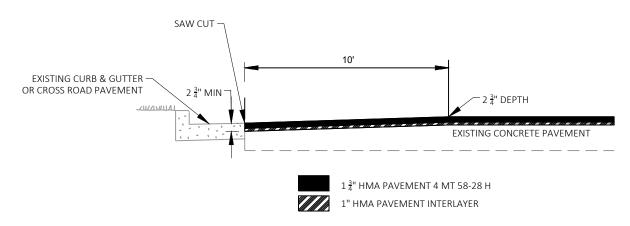
REMOVING CONCRETE SURFACE PARTIAL DEPTH FOR OUTSIDE LANE AT CURB AND GUTTER OR CONCRETE CROSS ROAD



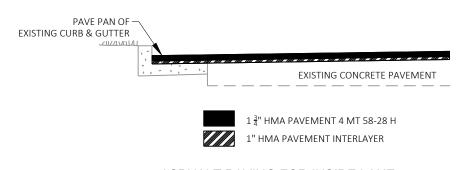
REMOVING CONCRETE SURFACE PARTIAL DEPTH FOR INSIDE LANE AT MEDIAN CURB AND GUTTER



ASPHALT PAVING AT ASPHALTIC SHOULDER OR CROSS ROAD



ASPHALT PAVING FOR OUTSIDE LANE AT CURB AND GUTTER OR CONCRETE CROSS ROAD



ASPHALT PAVING FOR INSIDE LANE
AT MEDIAN CURB AND GUTTER

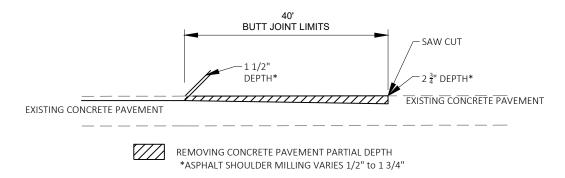
PROJECT NO: 6170-00-73 HWY: STH 21 COUNTY: WAUSHARA CONSTRUCTION DETAILS

FILE NAME: S:\DESIGN\DESIGN PROJECTS\NC REGION PROJEC

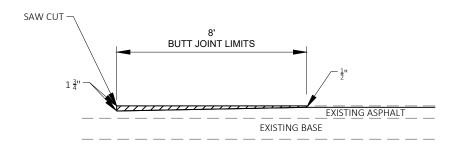
LAYOUT NAME - 01



MAINLINE BUTT JOINT REMOVALS (ASPHALT)

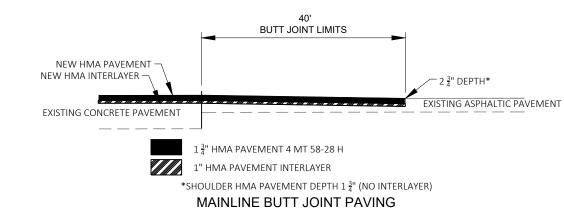


MAINLINE BUTT JOINT REMOVALS (CONCRETE)

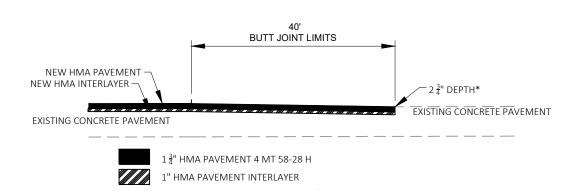


RURAL SIDE ROAD BUTT JOINT REMOVAL (ASPHALT)

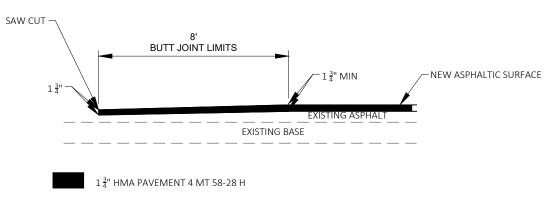
ASPHALTIC PAVEMENT REMOVAL MILLING



(ASPHALT)



*SHOULDER HMA PAVEMENT DEPTH $1\frac{3}{4}$ " (NO INTERLAYER) MAINLINE BUTT JOINT PAVING (CONCRETE)



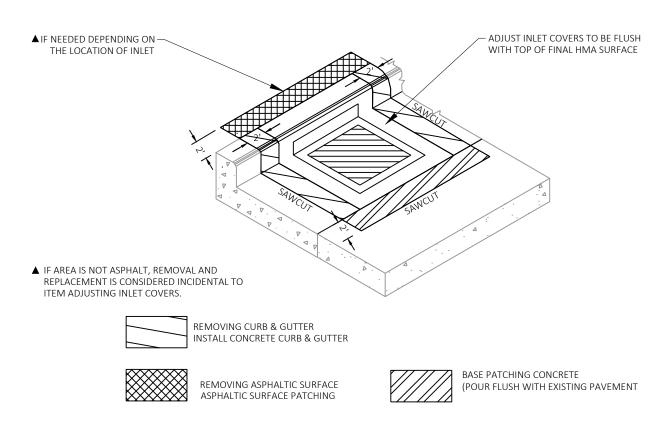
RURAL SIDE ROAD BUTT JOINT PAVING (ASPHALT)

COUNTY: WAUSHARA CONSTRUCTION DETAILS Ε PROJECT NO: 6170-00-73 HWY: STH 21 SHEET S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\C3D\SHEETSPLAN\021001-CD-21.DWG ADAM OSYPOWSKI FILE NAME : 5/19/2021 2:07 PM PLOT BY: PLOT SCALE : 1 IN:10 FT

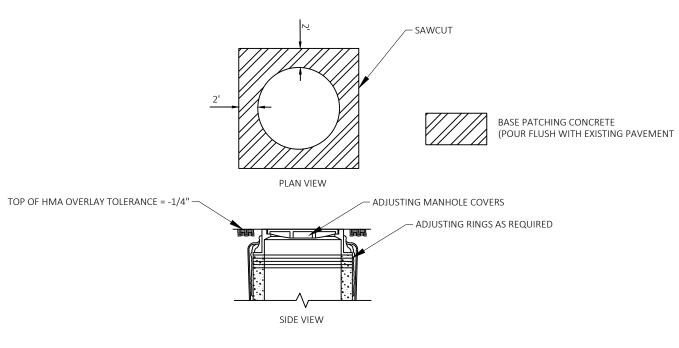
PLOT NAME

RECONSTRUCTING INLETS

NOTE: DETAILS NOT SHOWN SHALL CONFORM TO STANDARD DETAIL DRAWING FOR INLET D-FT DIAMETER



INLET ADJUSTMENT / RECONSTRUCTION DETAIL

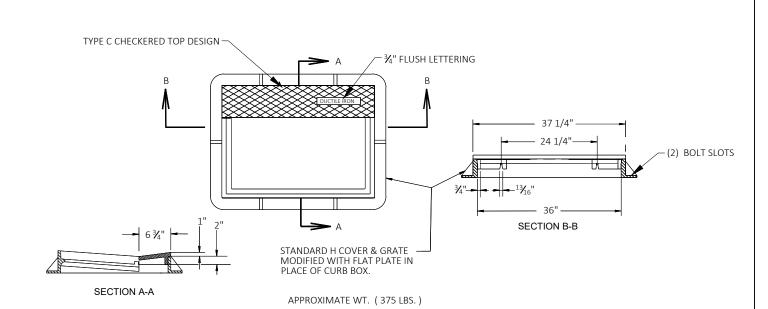


MANHOLE ADJUSTMENT DETAIL

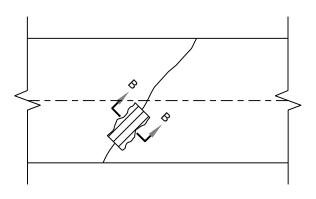
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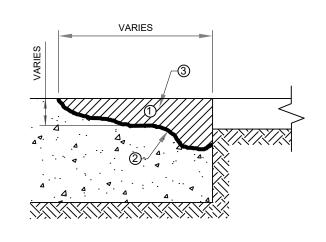


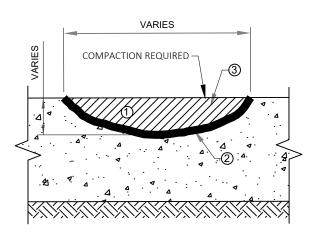
OR ADJOINING LANE EDGE OF CONCRETE PAVEMENT



PLAN VIEW

PLAN VIEW





SECTION A-A

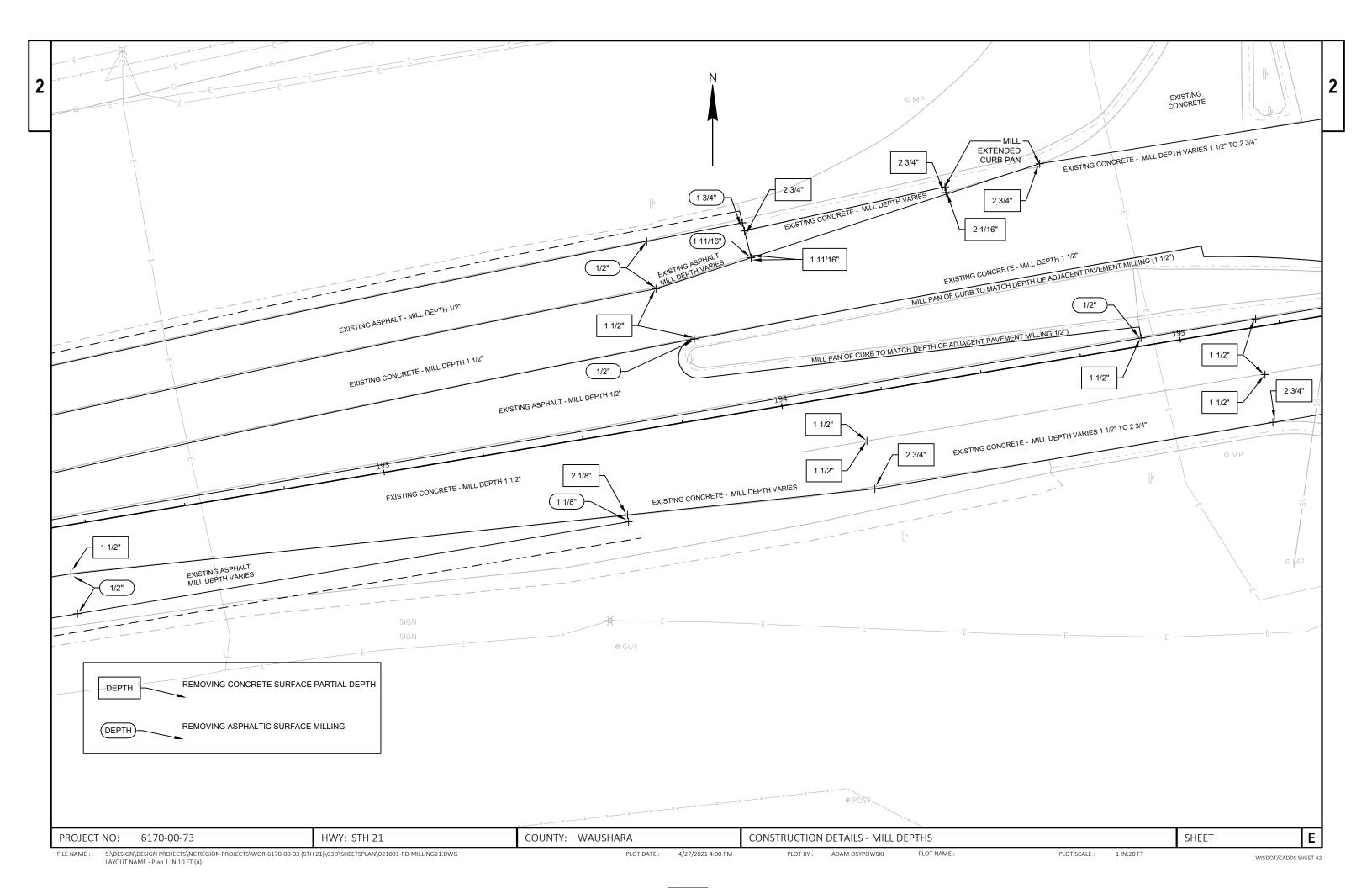
SECTION B-B

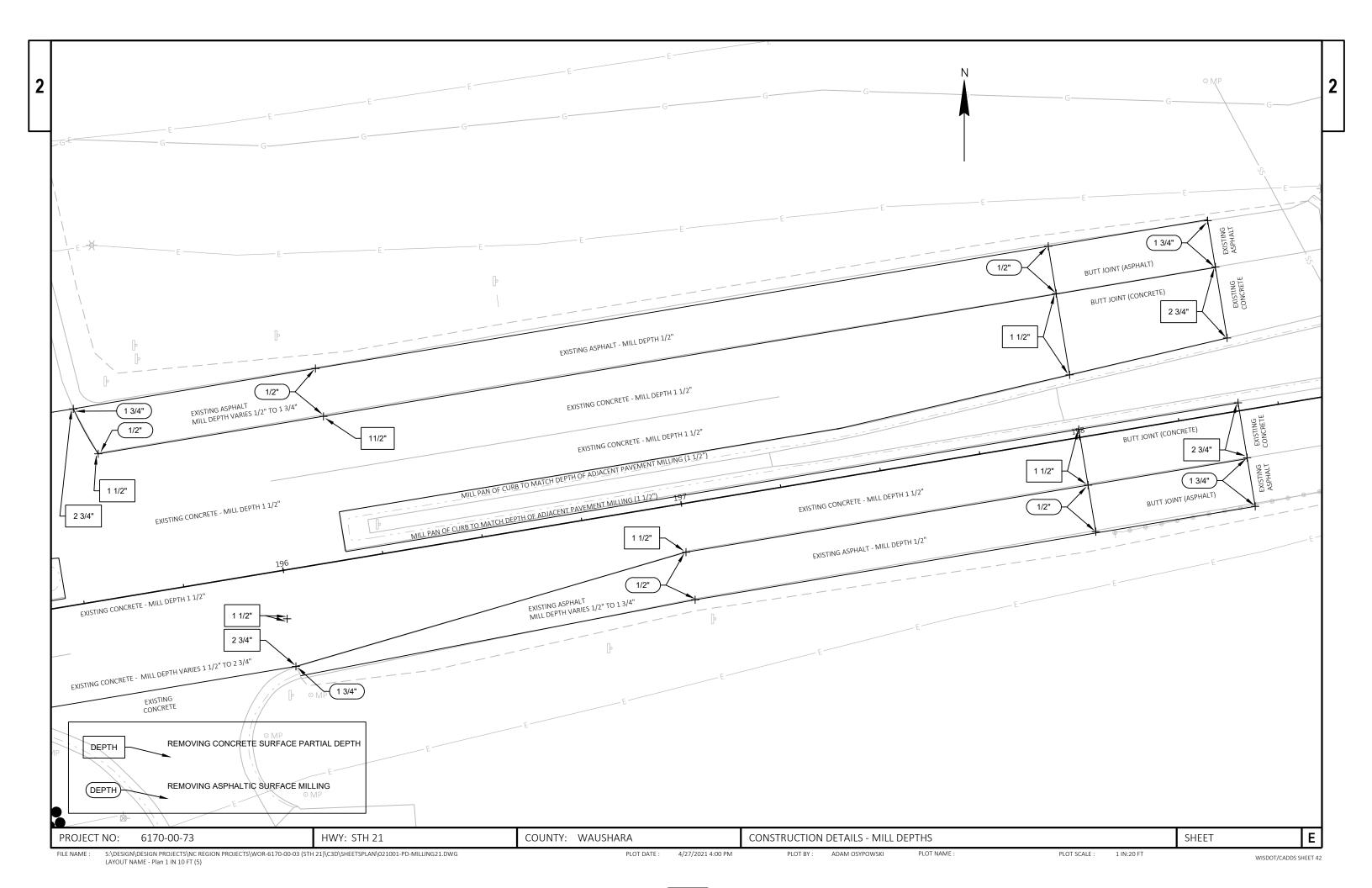
- ① REMOVE ALL UNSOUND AND DETERIORATED MATERIAL
- BLOW OUT REPAIR AREAS WITH 80 PSI MINIMUM COMPRESSED AIR TACK COAT REQUIRED PAID FOR UNDER BASE PATCHING ASPHALTIC FOR HMA INTERLAYER
- (3) ASPHALTIC SURFACE PAID FOR UNDER BASE PATCHING ASPHALTIC FOR HMA INTERLAYER

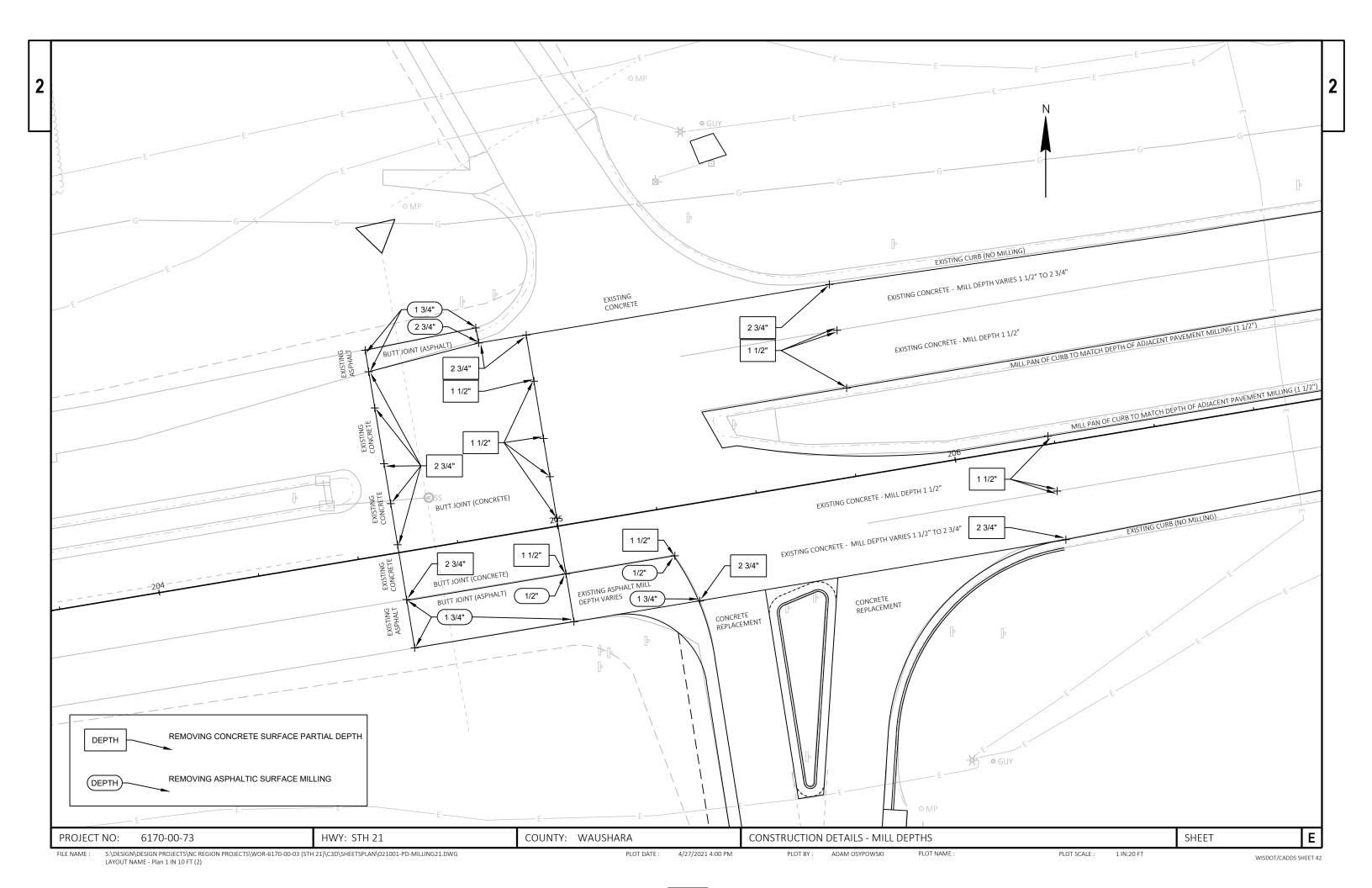
BASE PATCHING ASPHALTIC FOR HMA INTERLAYER

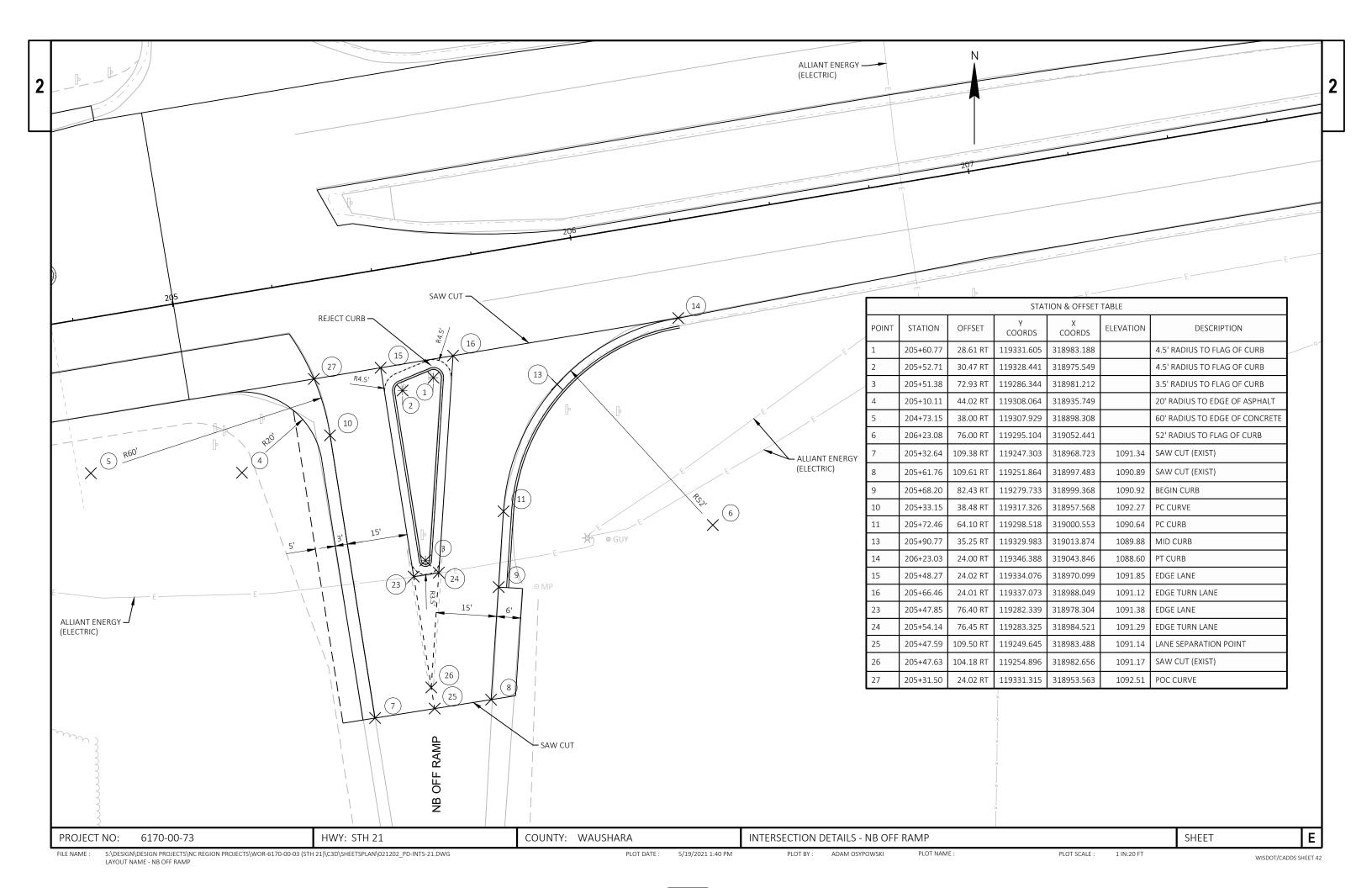
PROJECT NO: Ε 6170-00-73 HWY: STH 21 COUNTY: WAUSHARA CONSTRUCTION DETAILS SHEET S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\C3D\SHEETSPLAN\021001-CD-21.DWG PLOT BY: ADAM OSYPOWSKI PLOT NAME : FILE NAME : 5/19/2021 2:08 PM

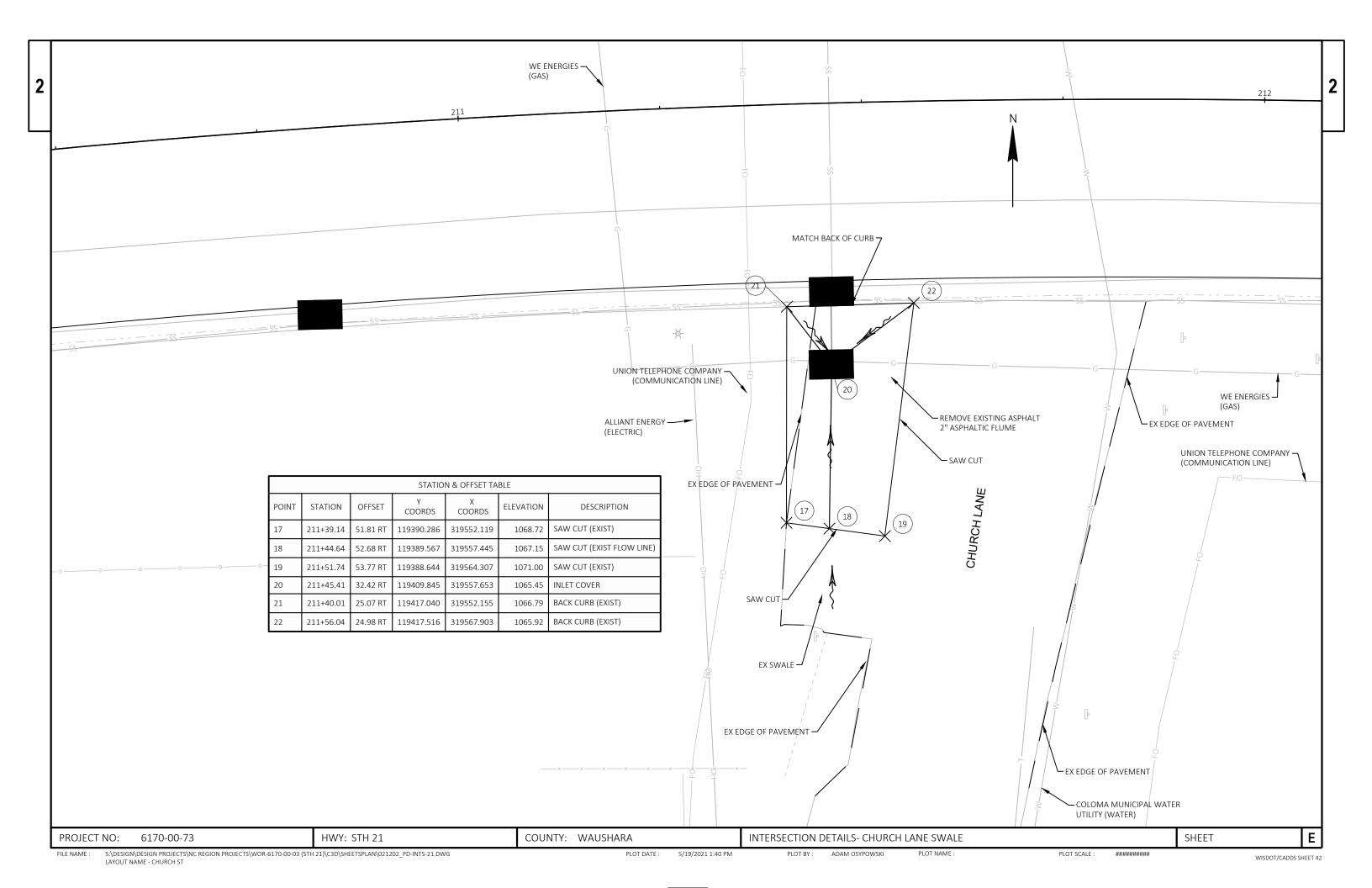
INLET COVER TYPE H-D (WITH MOUNTABLE CURB PLATE)

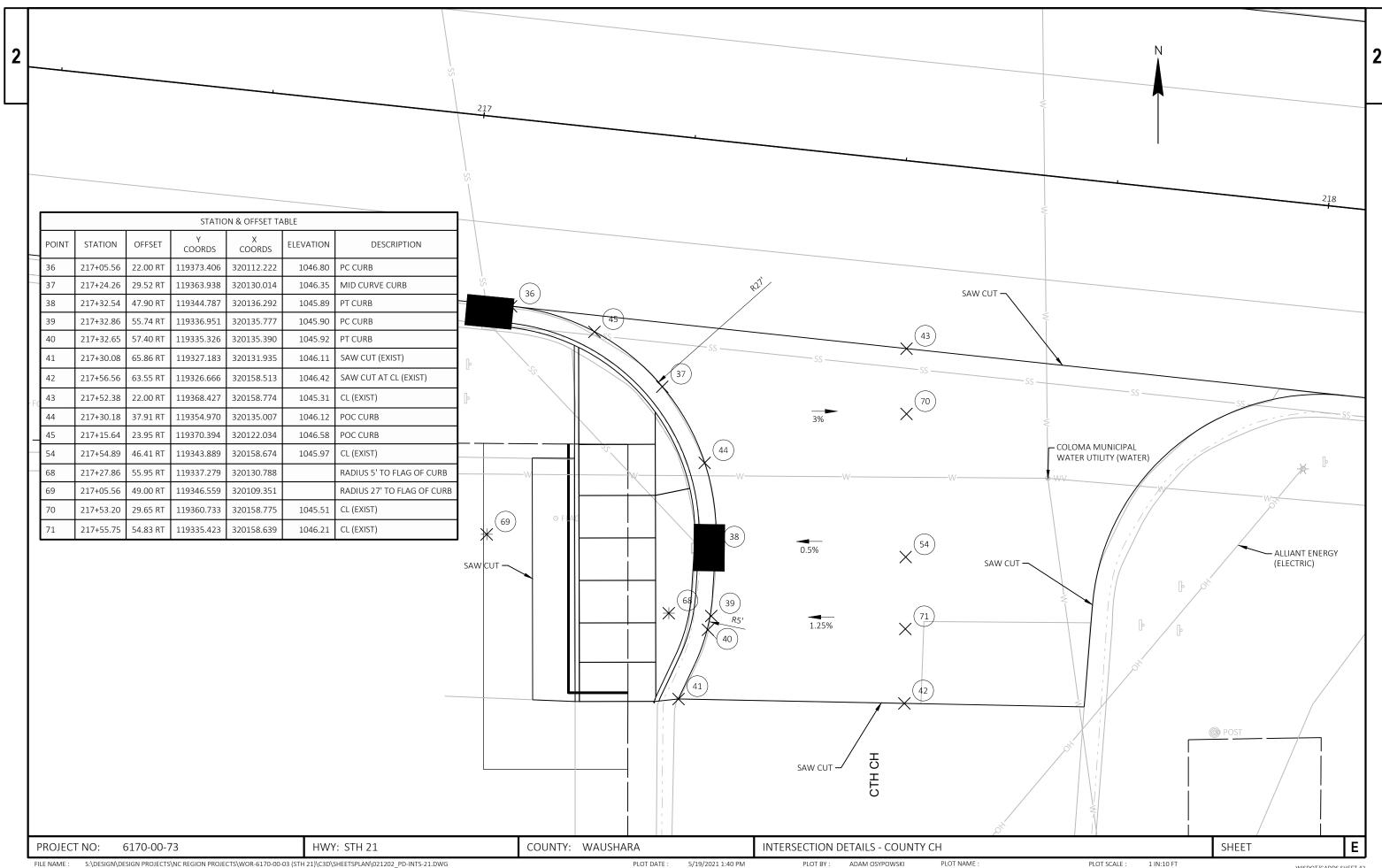


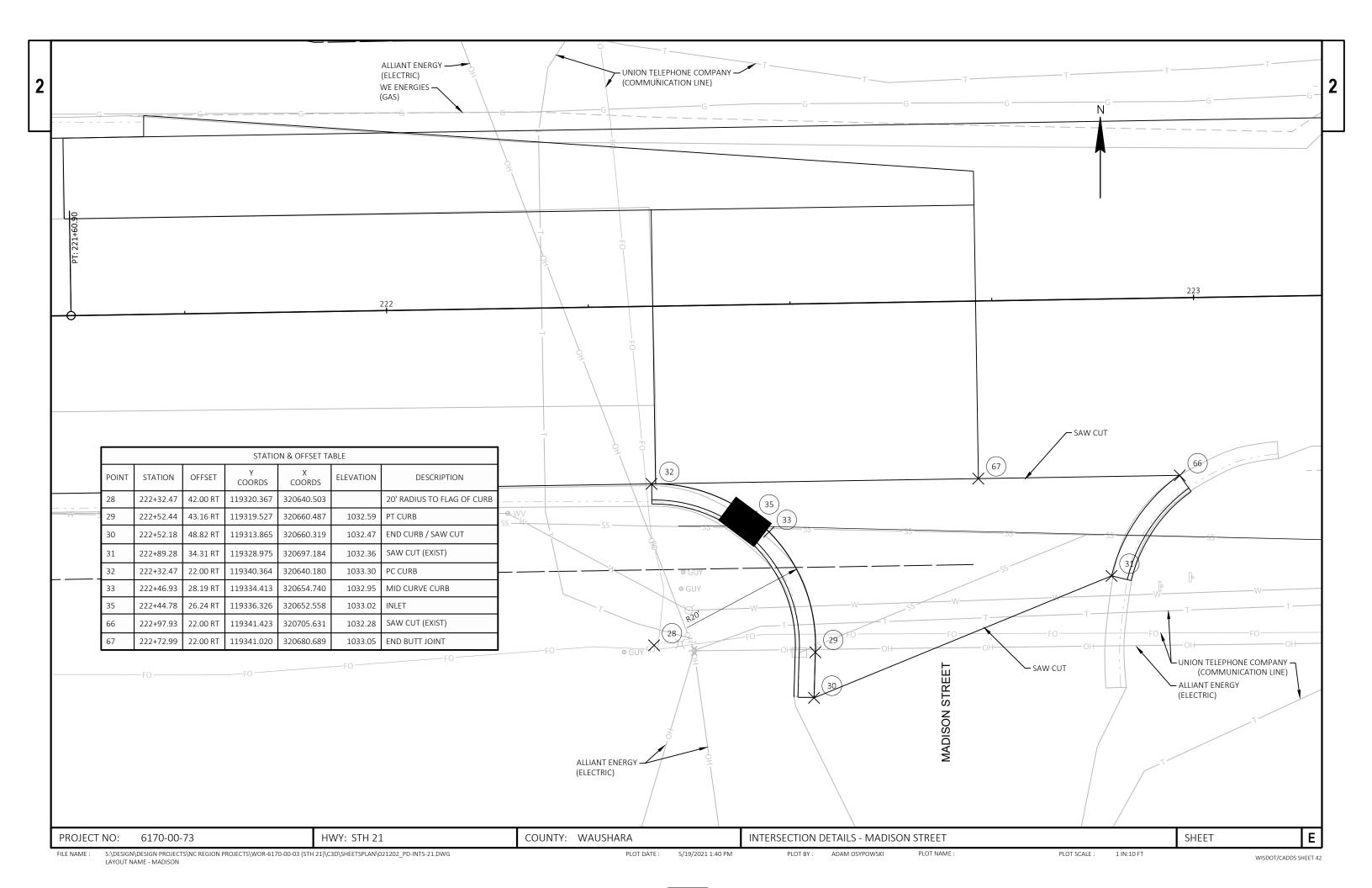


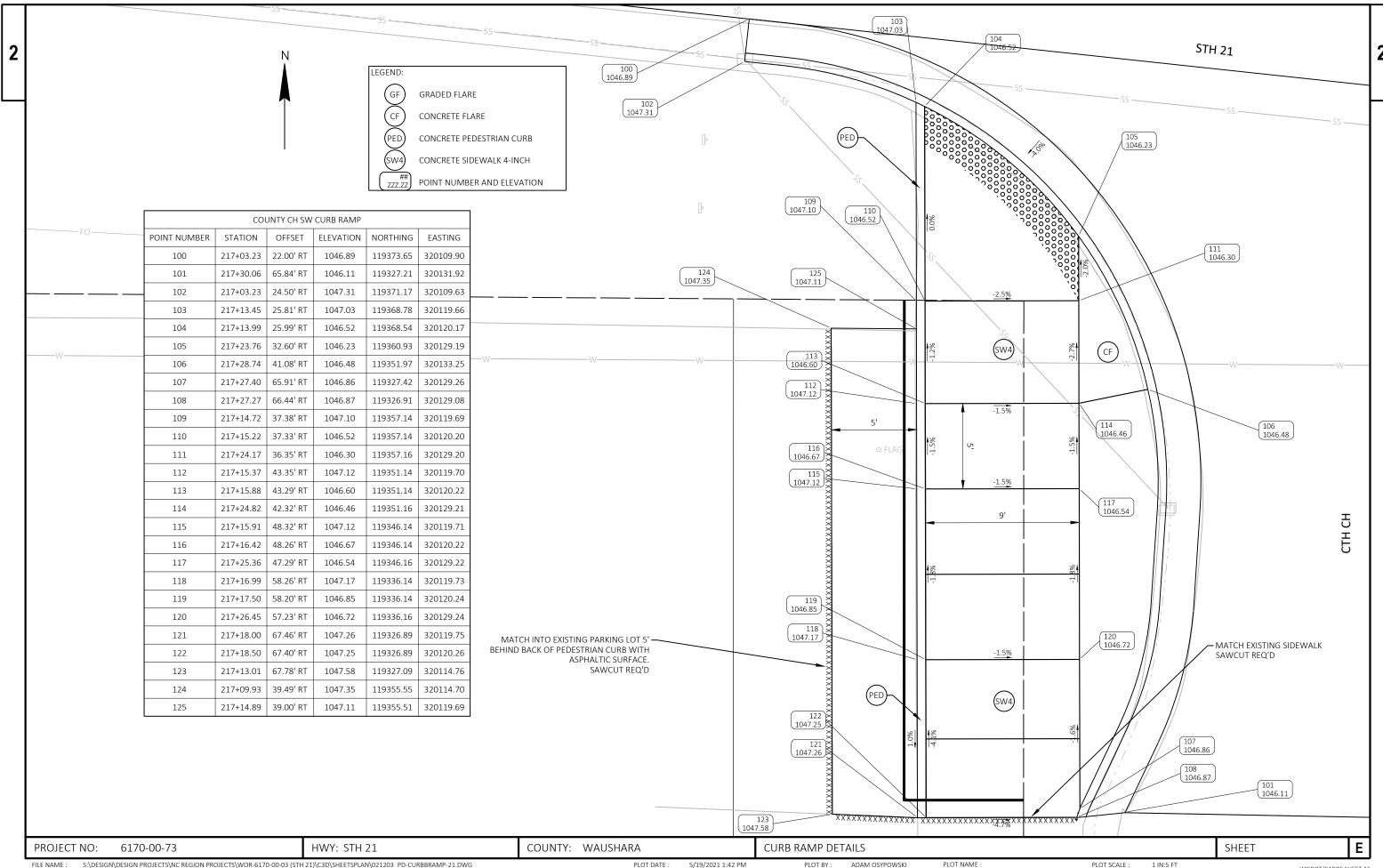


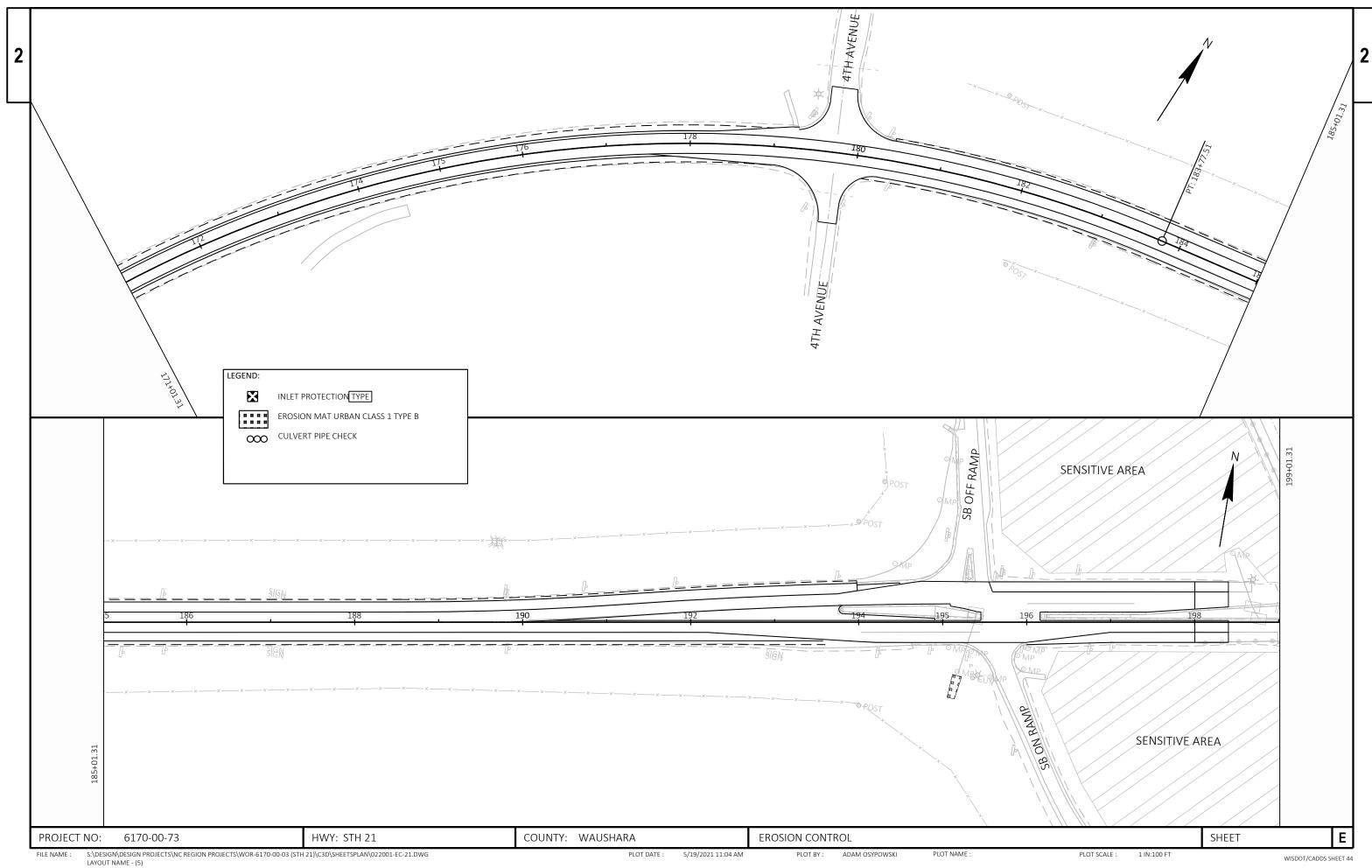


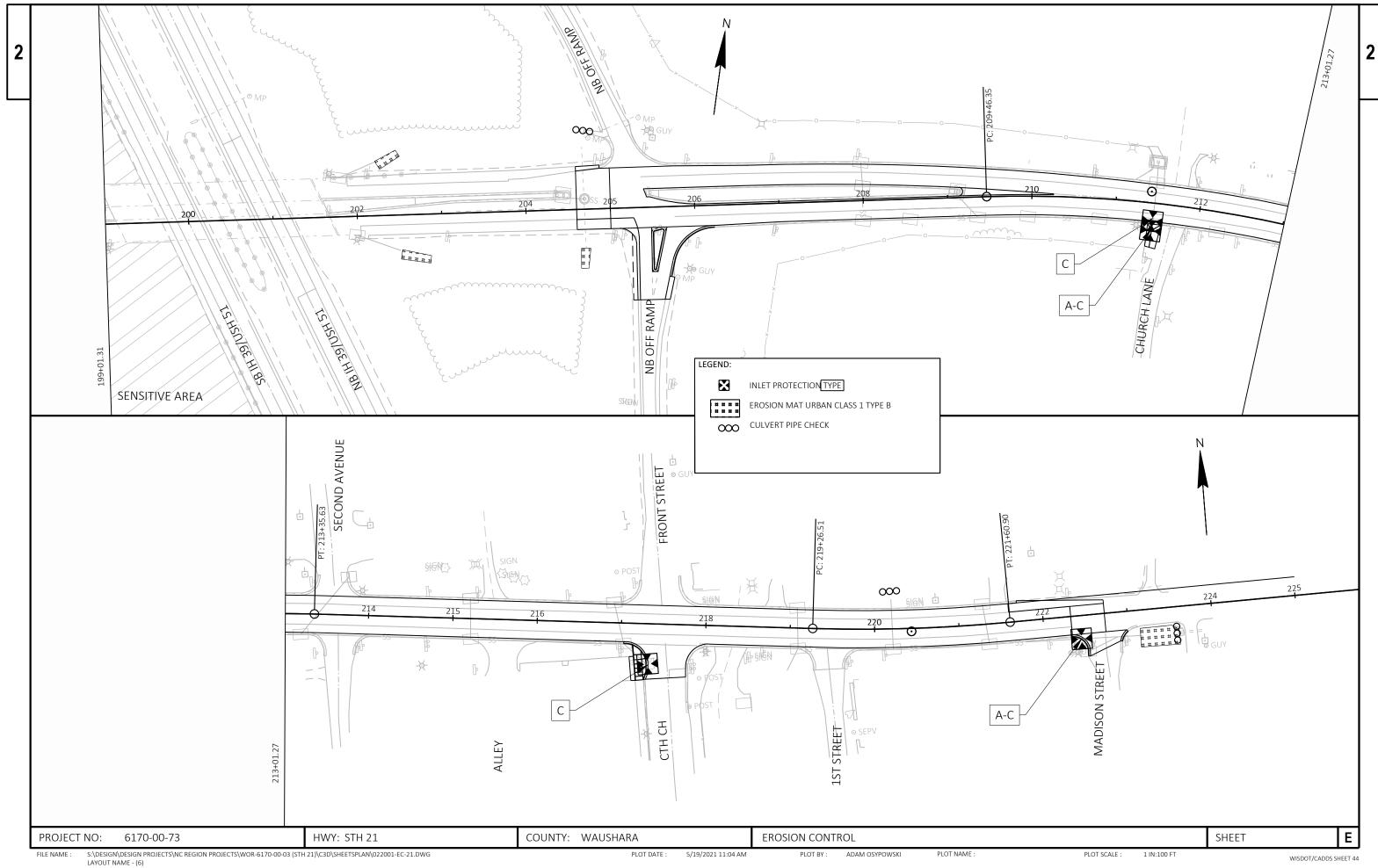


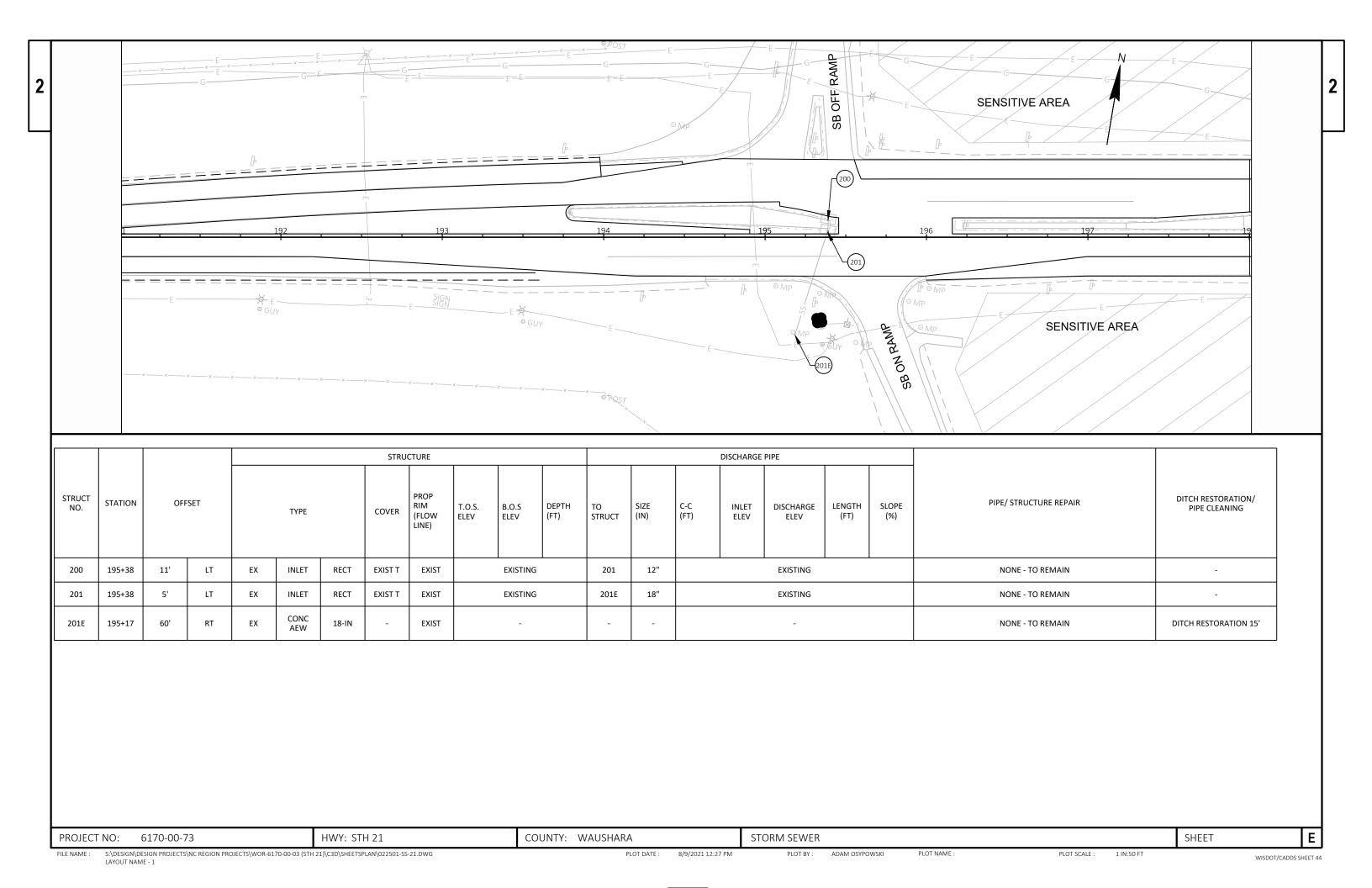


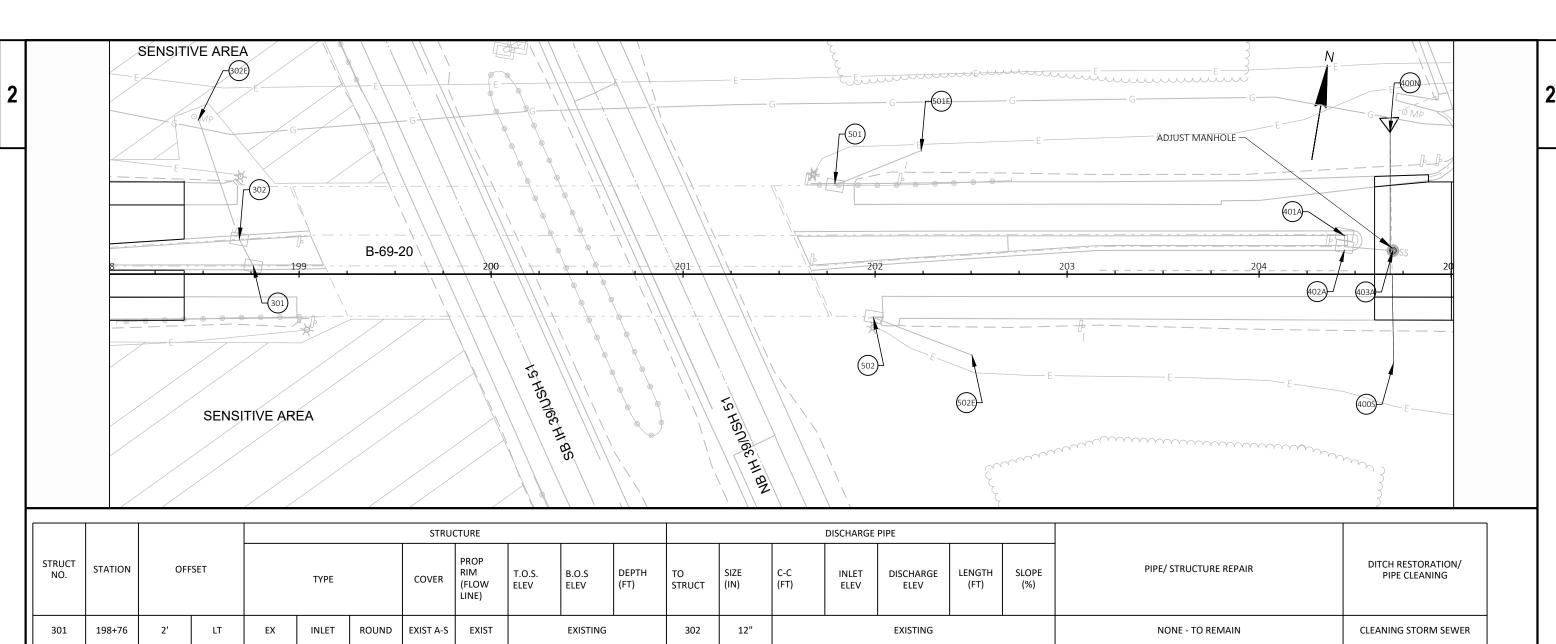












							STRU	CTURE						_	DISCHARGE	PIPE						
STRUCT NO.	STATION	OFI	FSET		ТҮРЕ		COVER	PROP RIM (FLOW LINE)	T.O.S. ELEV	B.O.S ELEV	DEPTH (FT)	TO STRUCT	SIZE (IN)	C-C (FT)	INLET ELEV	DISCHARGE ELEV	LENGTH (FT)	SLOPE (%)	PIPE/ STRUCTURE REPAIR	DITCH RESTORATION/ PIPE CLEANING		
301	198+76	2'	LT	EX	INLET	ROUND	EXIST A-S	EXIST	EXISTING			302	302 12" EXISTING						NONE - TO REMAIN	CLEANING STORM SEWER		
302	198+69	18'	LT	EX	INLET	ROUND	EXIST A-S	EXIST	EXISTING			302E	12"	EXISTING					NONE - TO REMAIN	CLEANING STORM SEWER		
302E	198+47	82'	LT	EX	CONC AEW	12-IN	-	EXIST	-			-	-			-			NONE - TO REMAIN			
400N	204+69	77'	LT	EX	CONC AEW	30-IN	-	1087.45	-			403A	30"			EXISTING			SALVAGE AND RESET ENDWALL	CLEANING STORM SEWER		
400S	204+69	46	RT	EX	CONC AEW	30-IN	-	EXIST	-			-	-	-					NONE-TO REMAIN	DITCH RESTORATION 10'		
401A	204+45	20'	LT	EX	INLET	RECT	EXIST H	EXIST		EXISTING		402A	12"		EXISTING				NONE-TO REMAIN	CLEANING STORM SEWER		
402A	204+45	14'	LT	EX	INLET	RECT	EXIST H	EXIST		EXISTING		403A	12"		EXISTING				NONE-TO REMAIN	CLEANING STORM SEWER		
403A	204+69	13'	LT	EX	МН	ROUND	EXIST J	1096.01		EXISTING		400S	30"		EXISTING			EXISTING ADJUST MANHOLE (ELEVATION)				
501	201+79	46'	LT	EX	INLET	RECT	EXIST V	EXIST		EXISTING		501E	12"		existing				NONE-TO REMAIN	-		
501E	202+25	64'	LT	EX	CONC AEW	12-IN	-	EXIST		-		-	-		-			- NONE-TO REMAIN		DITCH RESTORATION 6'		
502	201+97	22'	RT	EX	INLET	RECT	EXIST V	EXIST		EXISTING		502E	12"		EXISTING			EXISTING NONE-TO REMAIN			NONE-TO REMAIN	-
502E	202+45	42'	RT	EX	CONC AEW	12-IN	-	EXIST	-			-			-				NONE-TO REMAIN	DITCH RESTORATION 15'		
PROJECT	ROJECT NO: 6170-00-73								JNTY: W	AUSHARA STORM SEWER								SHEET				

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\C3D\SHEETSPLAN\022501-SS-21.DWG LAYOUT NAME - 2

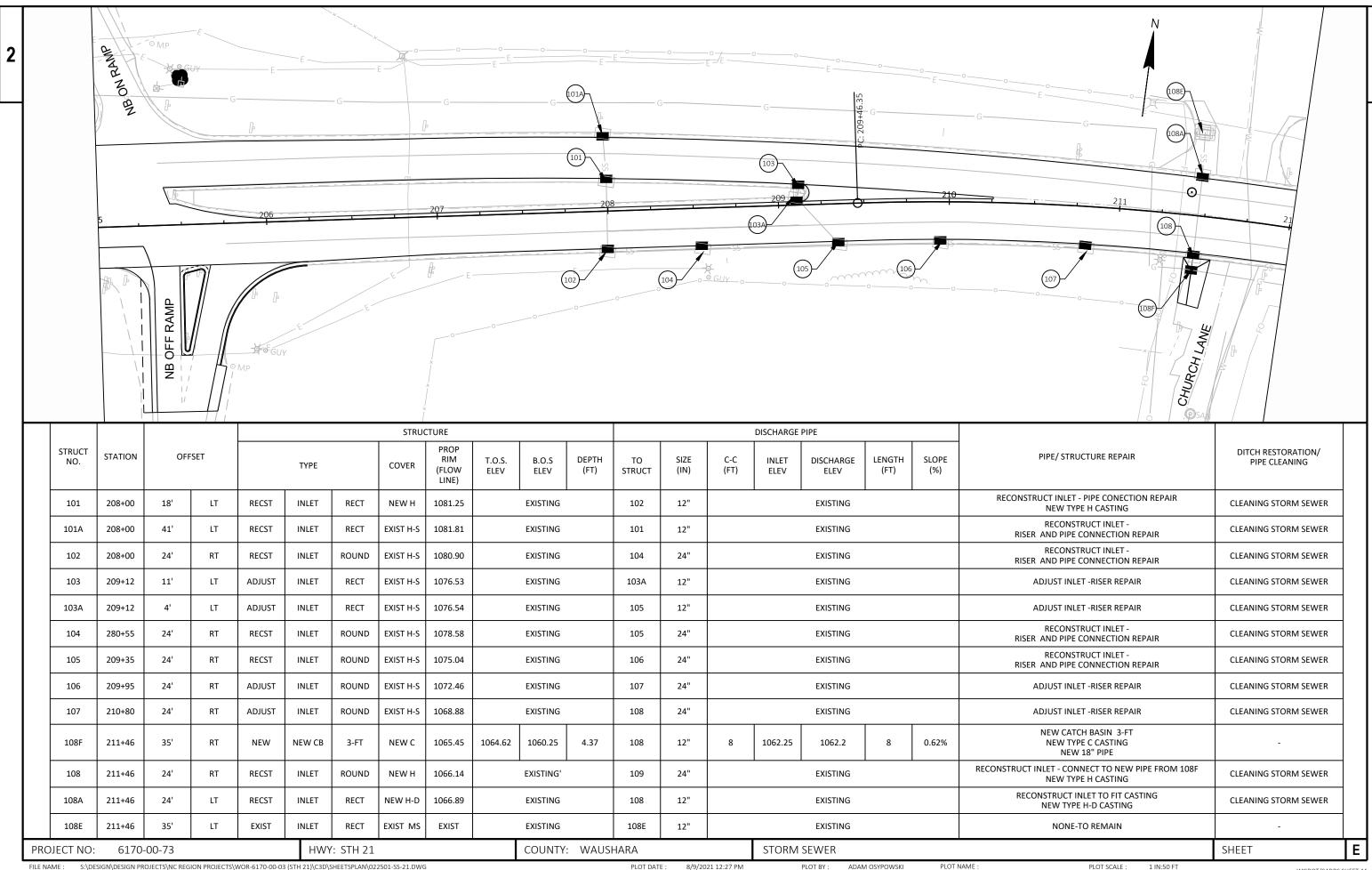
PLOT DATE : 8/9/2021 12:27 PM

PLOT BY: ADAM OSYPOWSKI

PLOT NAME :

PLOT SCALE : #

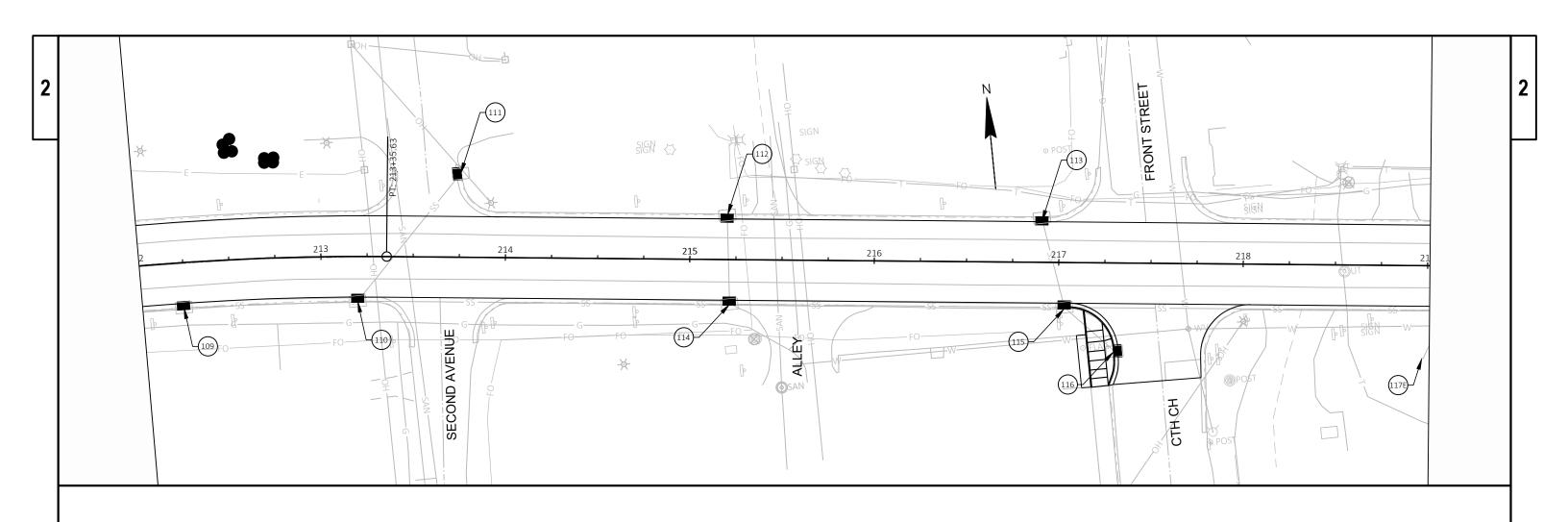
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FILE NAME :

PLOT NAME

PLOT SCALE :



							STRU	CTURE							DISCHARGE	PIPE					
STRUCT NO.	STATION	OFI	-SET		TYPE		COVER	PROP RIM (FLOW LINE)	T.O.S. ELEV	B.O.S ELEV	DEPTH (FT)	TO STRUCT	SIZE (IN)	C-C (FT)	INLET ELEV	DISCHARGE ELEV	LENGTH (FT)	SLOPE (%)	PIPE/ STRUCTURE REPAIR	DITCH RESTORATION/ PIPE CLEANING	
109	212+24	24'	RT	RECST	INLET	ROUND	EXIST H-S	1063.16		EXISTING		110	110 24" EXISTING RECONSTRUCT INLET - REPLACE TOP OF STRUCTURE AND RISE				CLEANING STORM SEWER				
110	213+22	24'	RT	RECST	INLET	ROUND	NEW H	1059.38		EXISTING		114	24"			EXISTING			RECONSTRUCT INLET -RISER REPAIR NEW TYPE H CASTING	CLEANING STORM SEWER	
111	213+73	45'	LT	ADJUST	INLET	RECT	EXIST H-S	1058.59	EXISTING			110	12"			EXISTING			ADJUST INLET - RISER REPAIR RESET CASTING	CLEANING STORM SEWER	
112	215+20	24'	LT	ADJUST	INLET	RECT	EXIST H-S	1052.56		EXISTING		114	12"			EXISTING			ADJUST INLET -RISER REPAIR	CLEANING STORM SEWER	
113	216+90	24'	LT	ADJUST	INLET	RECT	EXIST H-S	1047.11		EXISTING		115	12"			EXISTING			ADJUST INLET -RISER REPAIR	CLEANING STORM SEWER	
114	215+20	24'	RT	ADJUST	INLET	ROUND	EXIST H-S	1052.27		EXISTING		115	24"			EXISTING			ADJUST INLET -RISER REPAIR	CLEANING STORM SEWER	
115	217+02	24'	RT	EXIST	INLET	ROUND	EXIST H-S	EXIST		EXISTING		117	24"			EXISTING			NONE-TO REMAIN	CLEANING STORM SEWER	
116	217+31	48'	RT	ADJUST	INLET	RECT	EXIST H-S	1045.81		EXISTING		115	18"		EXISTING ADJUST-INLET - ELEVATION AND RISER REPAIR				CLEANING STORM SEWER		
117E	218+99	44'	RT	EXIST	CONC AEW	18-INCH	-	EXIST		-		117	18"			-			NONE-TO REMAIN	CLEANING STORM SEWER	

PROJECT NO: 6170-00-73 HWY: STH 21 COUNTY: WAUSHARA

FILE NAME: SIDESIGN/DESIGN/PROJECTS/WOR-6170-00-03 (STHEFFHAN)022501-SS-21.DWG

FILE NAME: AVOUT NAME - 4

FILE NAME: SIDESIGN/DESIGN/PROJECTS/WOR-6170-00-03 (STHEFFHAN)022501-SS-21.DWG

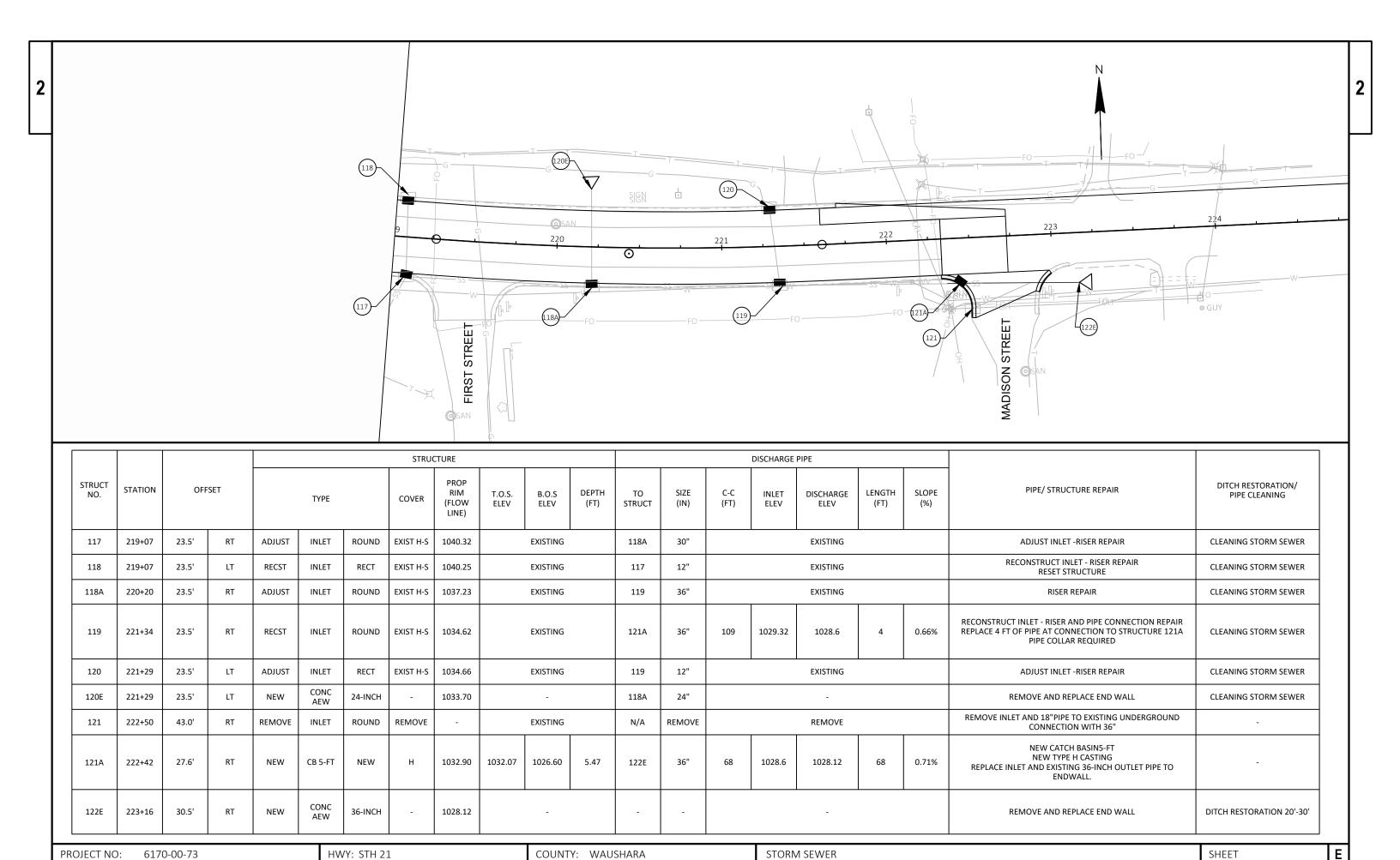
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FILE NAME: SIDESIGN/DESIGN/PROJECTS/WOR-6170-00-03 (STHEFFHAN)022501-SS-21.DWG

FILE NAME: AVOUT NAME - 4

FILE NAME: SIDESIGN/DESIGN/PROJECTS/WOR-6170-00-03 (STHEFFHAN)022501-SS-21.DWG

FILE NAME: AVOUT NAME - 4



S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\C3D\SHEETSPLAN\022501-SS-21.DWG PLOT DATE : ADAM OSYPOWSKI PLOT NAME : FILE NAME : 8/9/2021 12:27 PM PLOT BY: PLOT SCALE: 1 IN:50 FT WISDOT/CADDS SHEET 44

STORM SEWER

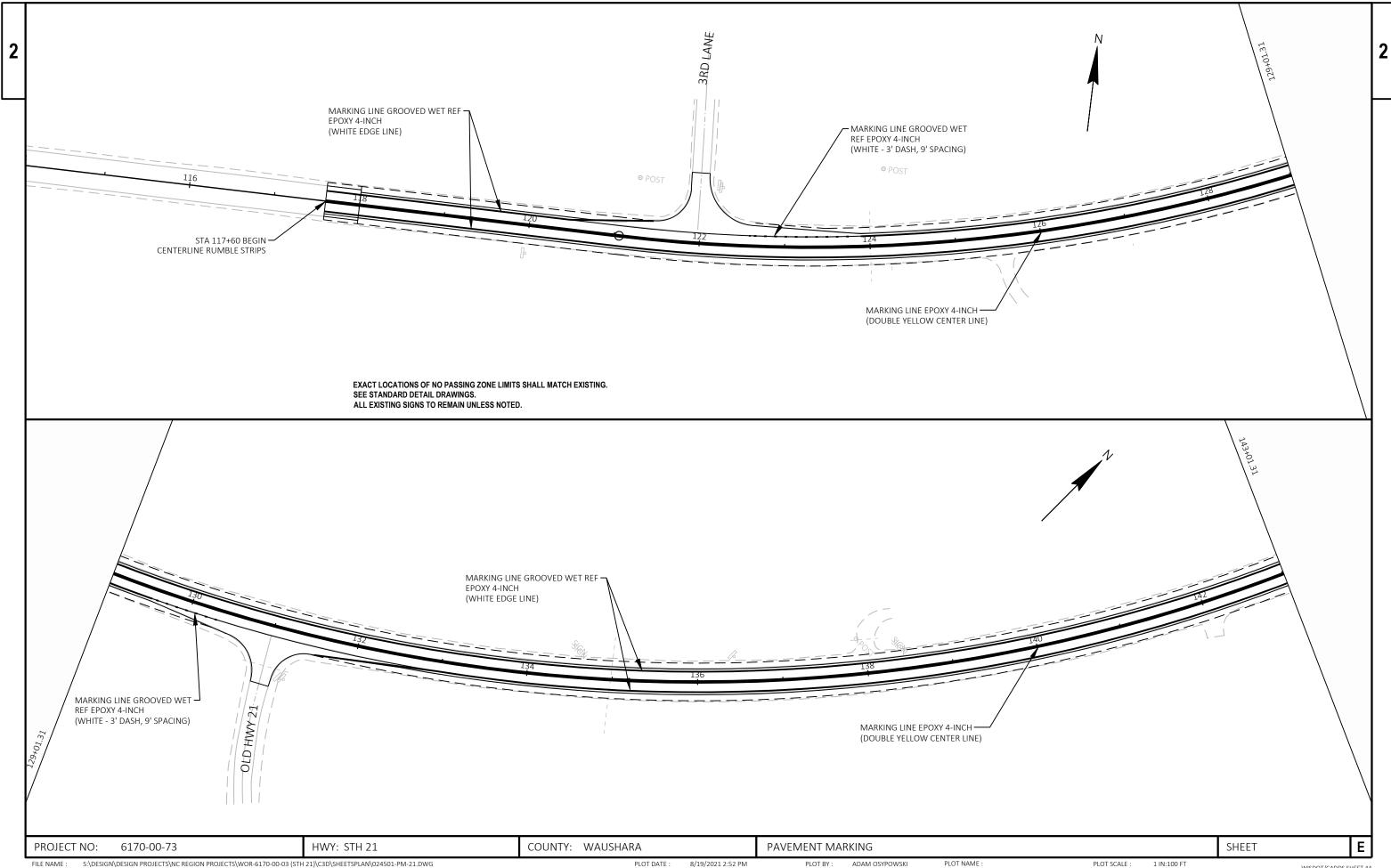
SHEET

COUNTY: WAUSHARA

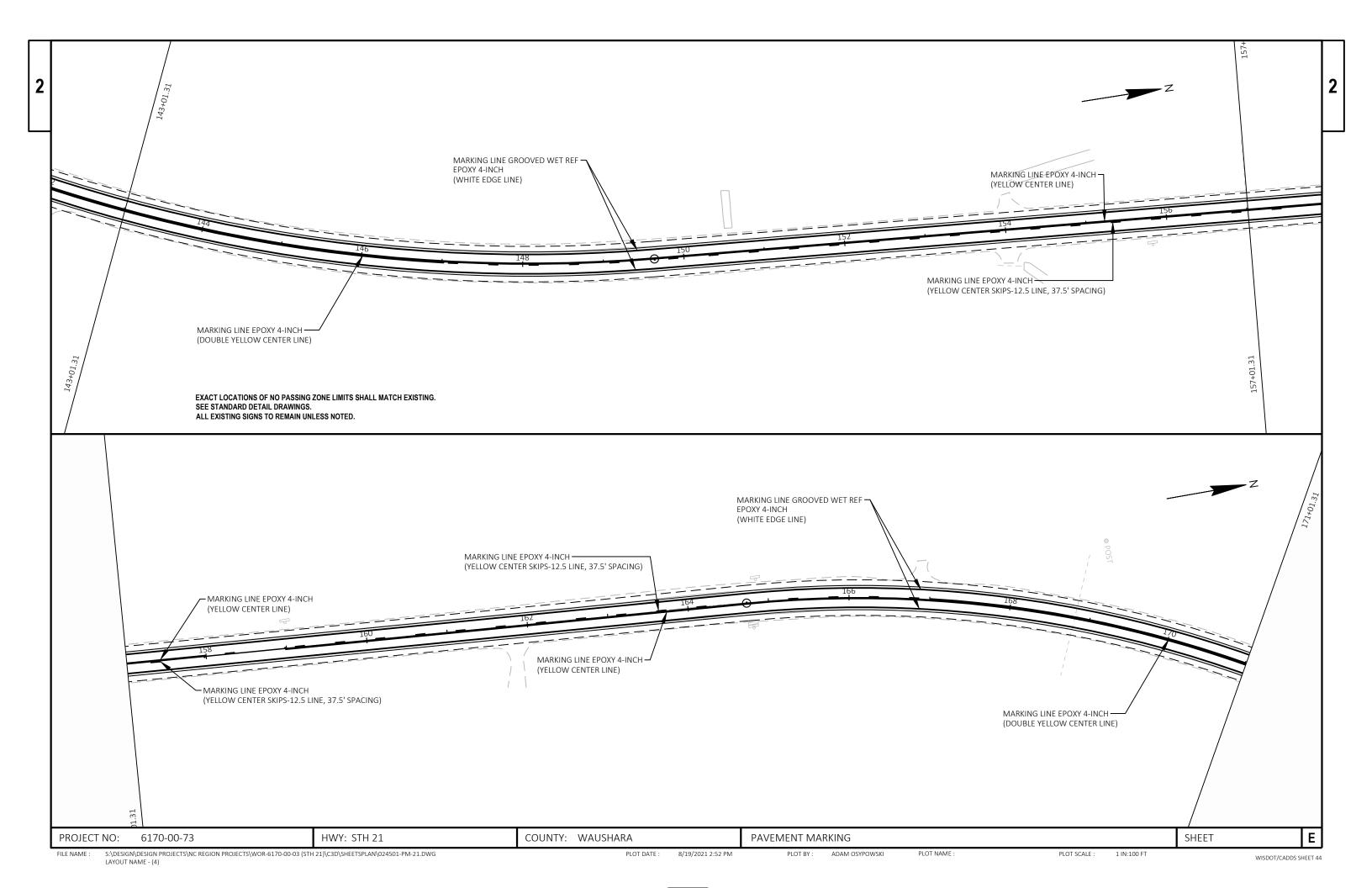
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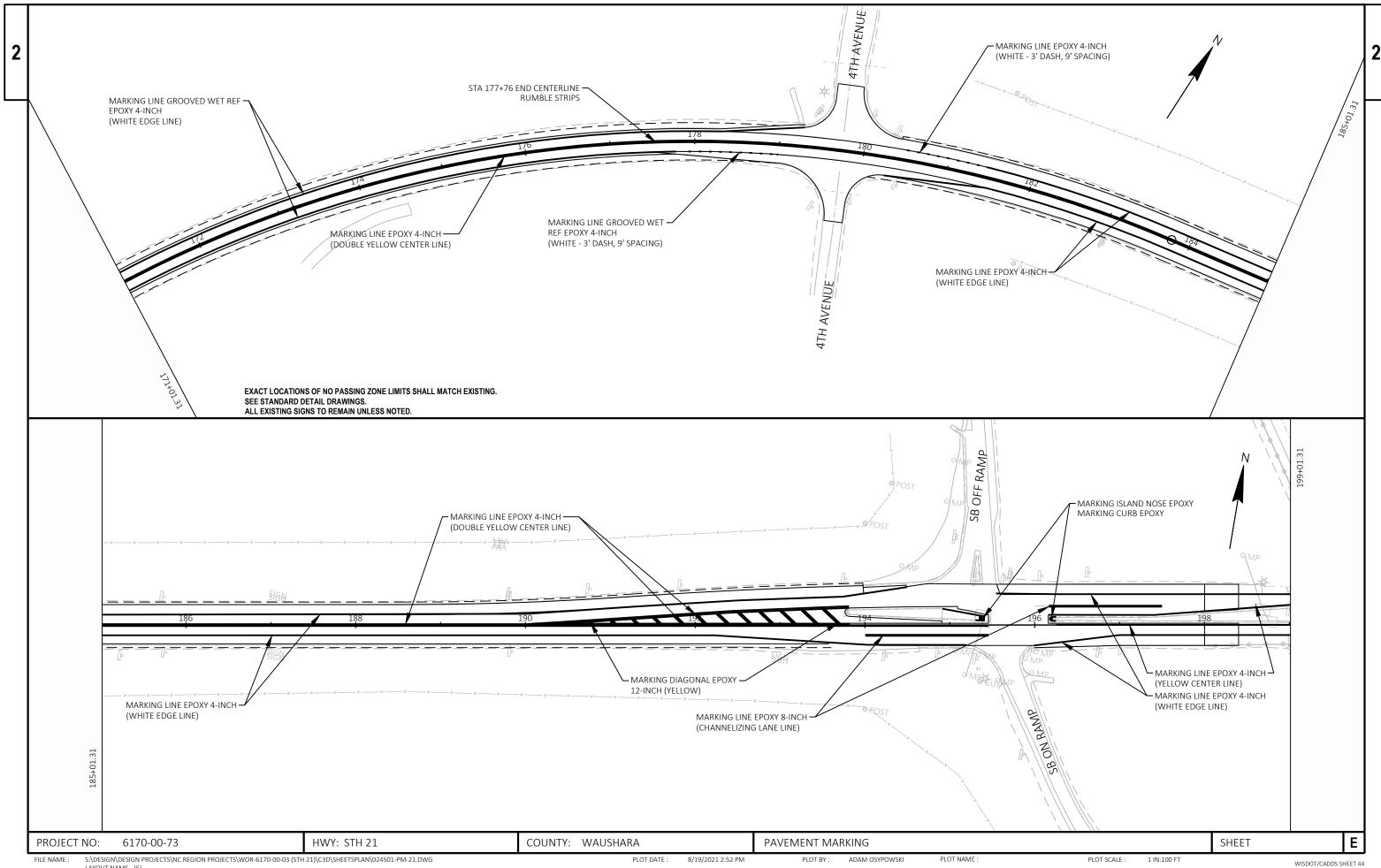
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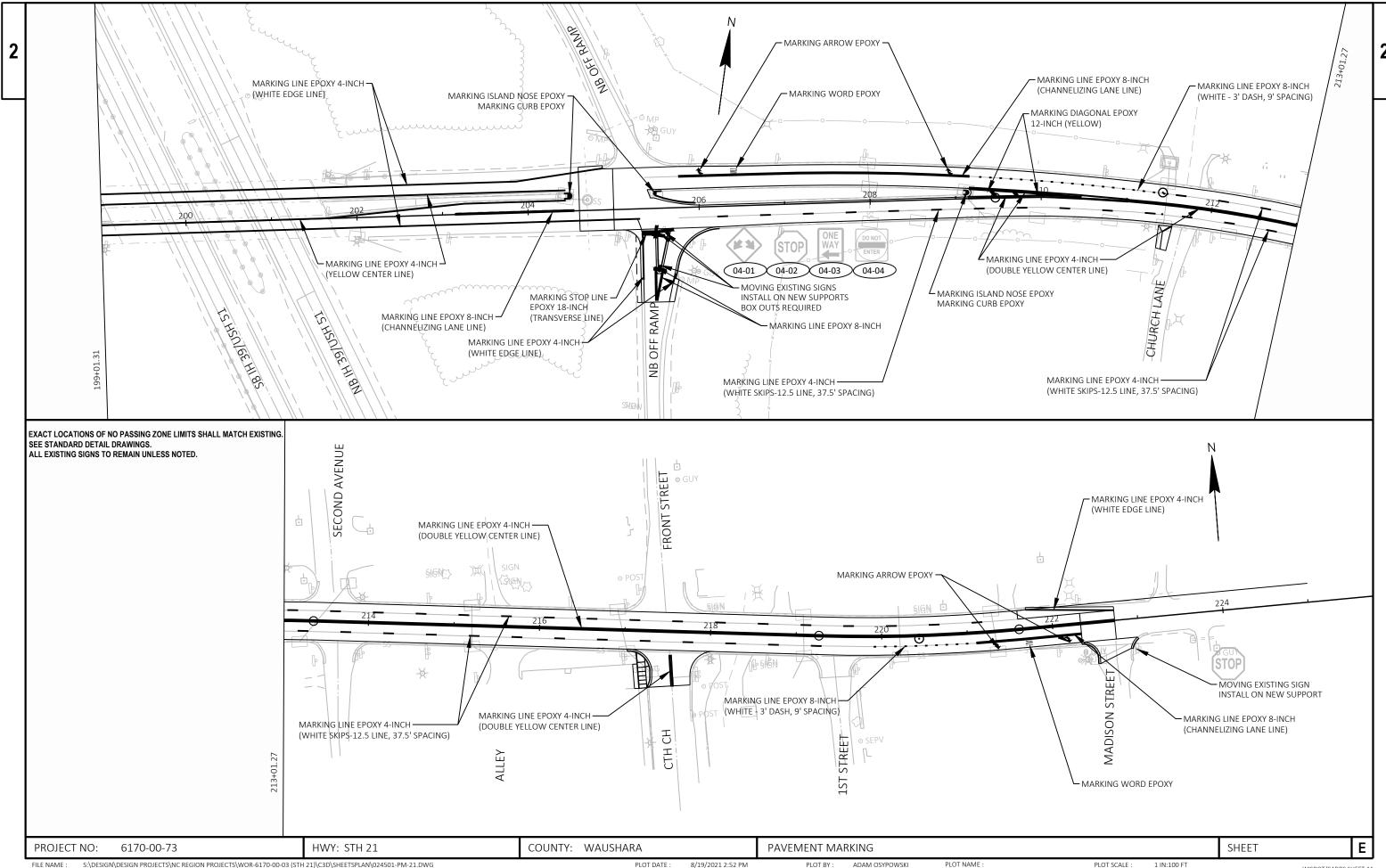
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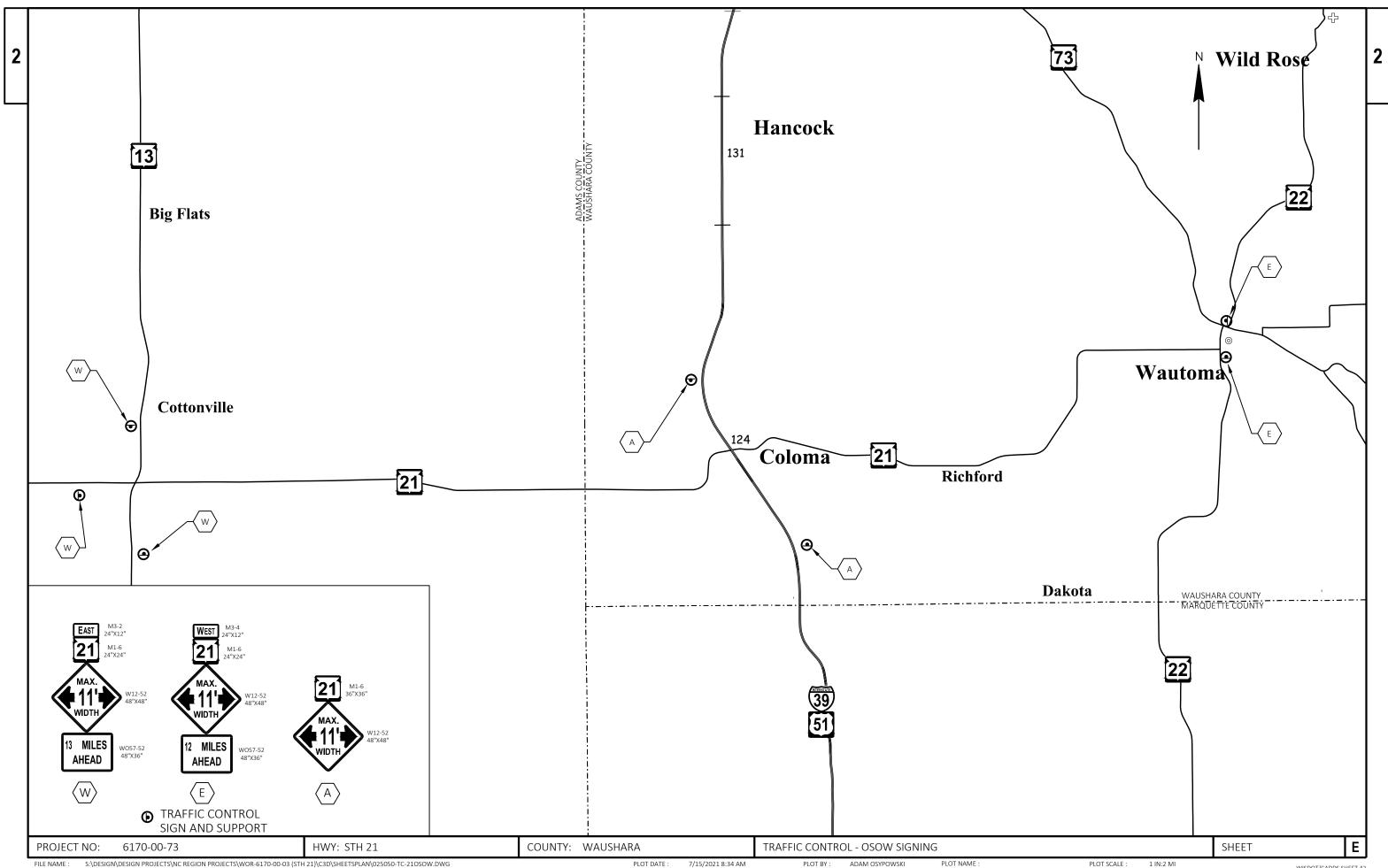
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1 IN:100 FT



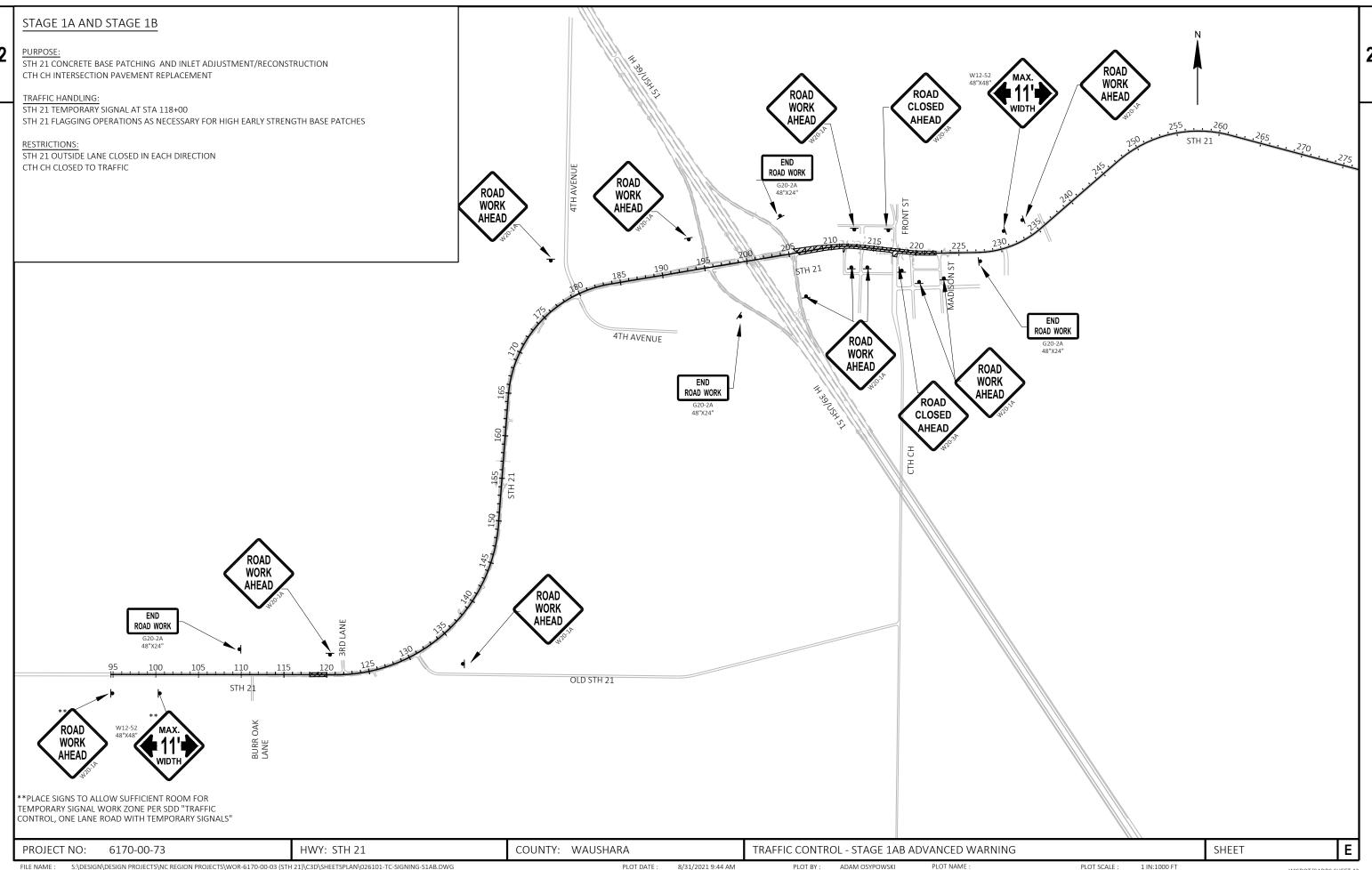
		STAGES 1 A-B		7 DAYS PRIOR		STAGES 1 C-D		STAGE 2		STAGE 2		STAGE 2		
		!		TO STAGE 1C				3 DAYS PRIOR TO		RAMP TURN		FULL RAMP CLOSURE		
								RAMP TURN		RESTRICTIONS				
								CLOSURES/RESTRICTION						
		PHASE 1	PHASE 2	PHASE 1	PHASE 2	PHASE 1	PHASE 2	PHASE 1	PHASE 2	PHASE 1	PHASE 2	PHASE 1	PHASE 2	
SITE NO.	LOCATION	(2 SEC)	(2 SEC)	(2 SEC)	(2 SEC)	(2 SEC)	(2 SEC)	(2 SEC)	(2 SEC)	(2 SEC)	(2 SEC)	(2 SEC)	(2 SEC)	
SITE N1	3/4 MILE SOUTH OF STH 21 OFF RAMP	NO MESSAGE BOARD USED		RAMP TO	MONTH	NO MESSAGE		DAILY	BEGINS	NO TURN		EXIT	USE	
				CLOSE	DAY	BOARD USED	RAMP	XXXDAY	TO		124	EXIT		
				TIME		20/11/2 0022		CLOSURE	XX XX XX	XXXX 21		CLOSED	131	
SITE S1	3/4 MILE NORTH OF STH 21 OFF RAMP	NO MESSAGE BOARD USED		NO MESSAGE BOARD USED		NO MESSAGE BOARD USED		DAILY	BEGINS	NO TURN		EXIT	USE	
								RAMP	XXXDAY	TO		124	EXIT	
								CLOSURE	XXXX	XXXX 21		CLOSED	113	
SITE E1	1000' WEST OF	NO MESSAGE BOARD USED		NO MESSAGE BOARD USED		NO MESSAGE BOARD USED		DAILY	BEGINS	NO MESSAGE BOARD USED		NO MESSAGE BOARD USED		
	SB IH 39 RAMPS							RAMP	XXXDAY					
	05 11 00 10 11111 0							CLOSURE	XX XX XX					
SITE W1	1000' EAST OF	NO MESSAGE BOARD USED		NO MESSAGE BOARD USED		NO MESSAGE BOARD USED		DAILY	BEGINS	NO MESSAGE BOARD USED		NO MESSAGE BOARD USED		
	NB IH 39 RAMPS							RAMP	XXXDAY					
								CLOSURE	XX XX					
	!					,		, ,		NO	TE. VVV AN		'	
										NOTE: XXXX AND XXXXX REFER				
											TO CARDINAL DIRECTION			

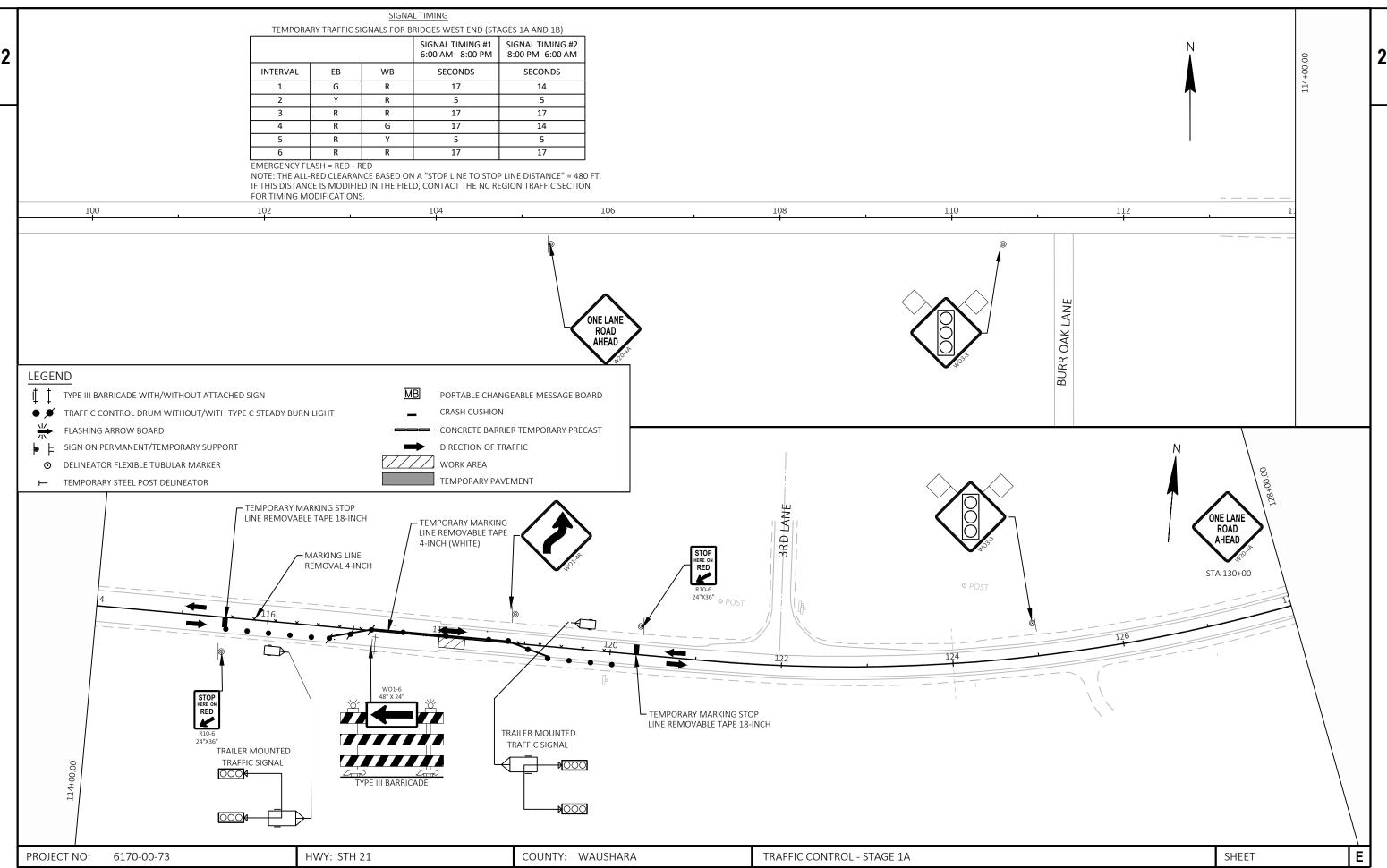
GENERAL NOTES FOR CHANGEABLE MESSAGE BOARDS

CONSIDER CLEAR ROADWAY GEOMETRICS WHEN LOCATING MESSAGE SIGNS. PLACE THE SIGNS SO THE DRIVER HAS A CLEAR VIEW OF THE MESSAGE FOR A MINIMUM OF 1500 FEET.

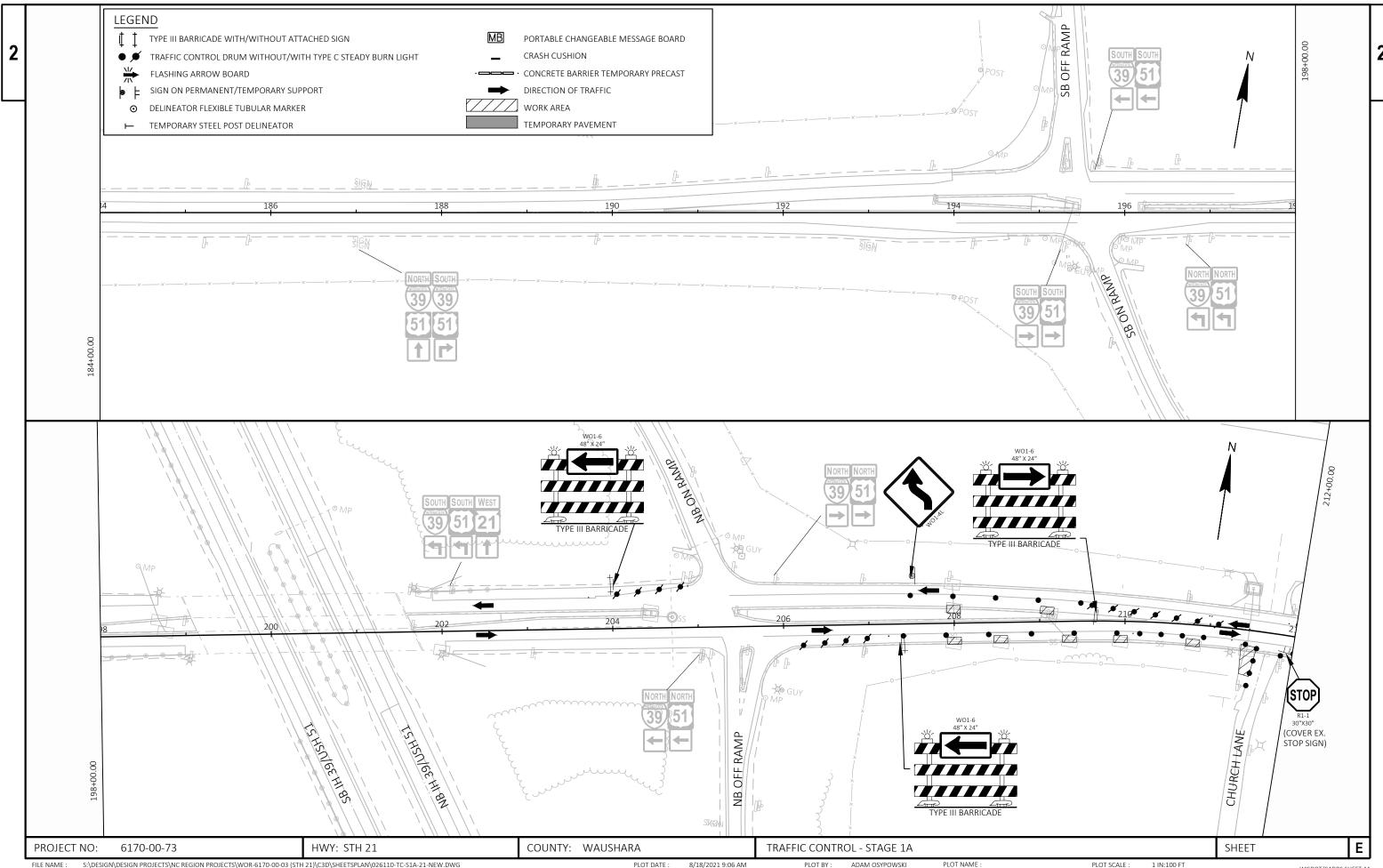
MESSAGE SIGNS SHOULD BE PLACED AS FAR AWAY FROM THE LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF INTERSTATE CONSTRUCTION PROJECTS, THE SIGNS SHOULD BE PLACED ON THE BACKSLOPE BEYOND THE DITCH. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ROADWAY.

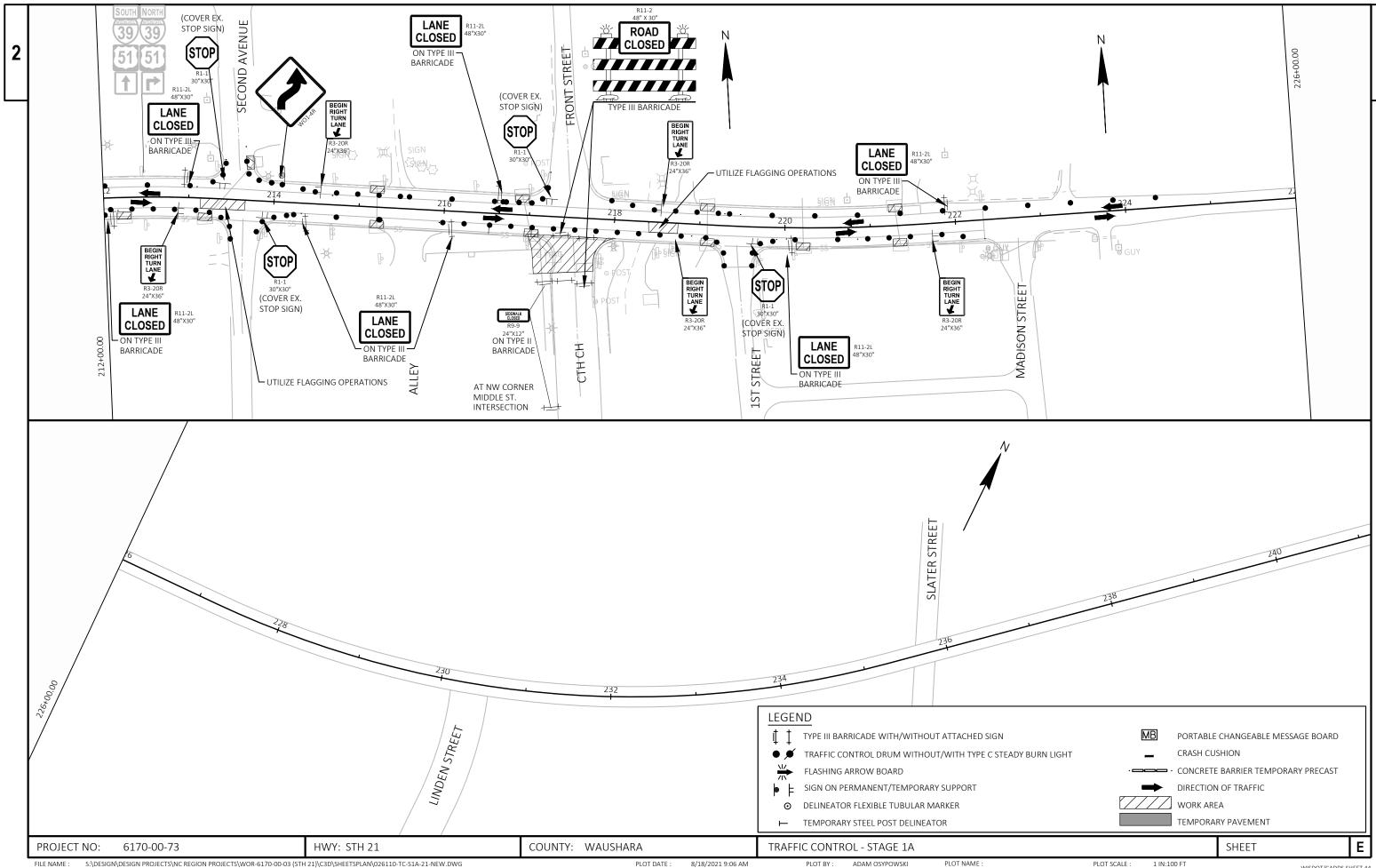
FOR INTERMITTENT WORK SUCH AS A FREEEWAY LANE CLOSURE, OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER. THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINTENANCE CONSIDERATIONS. A TAPER OF FIVE (5) REFLECTORIZED DRUMS OR SHALL BE PLACED AHEAD OF A PCMS THAT IS PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY A BARRIER.

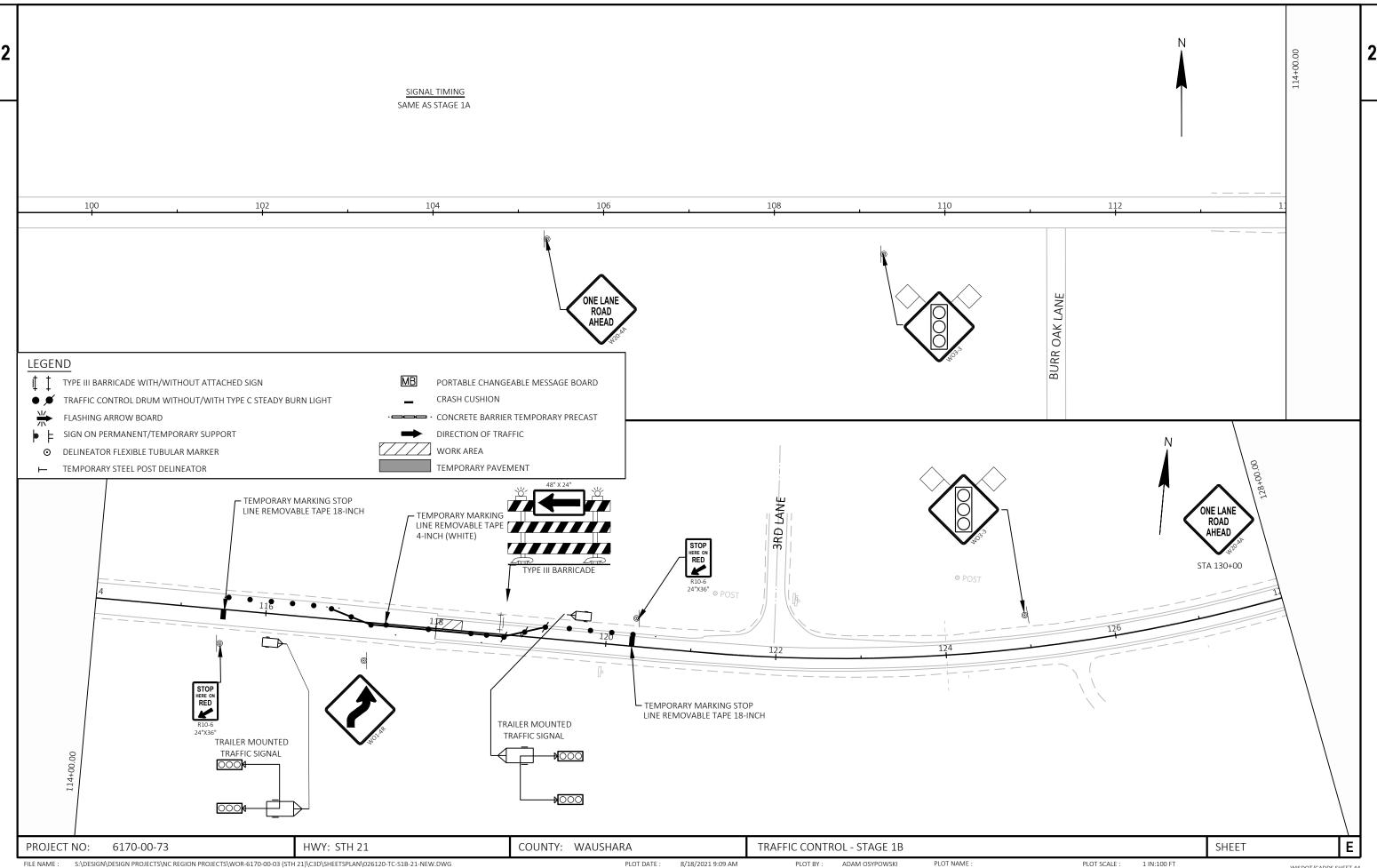


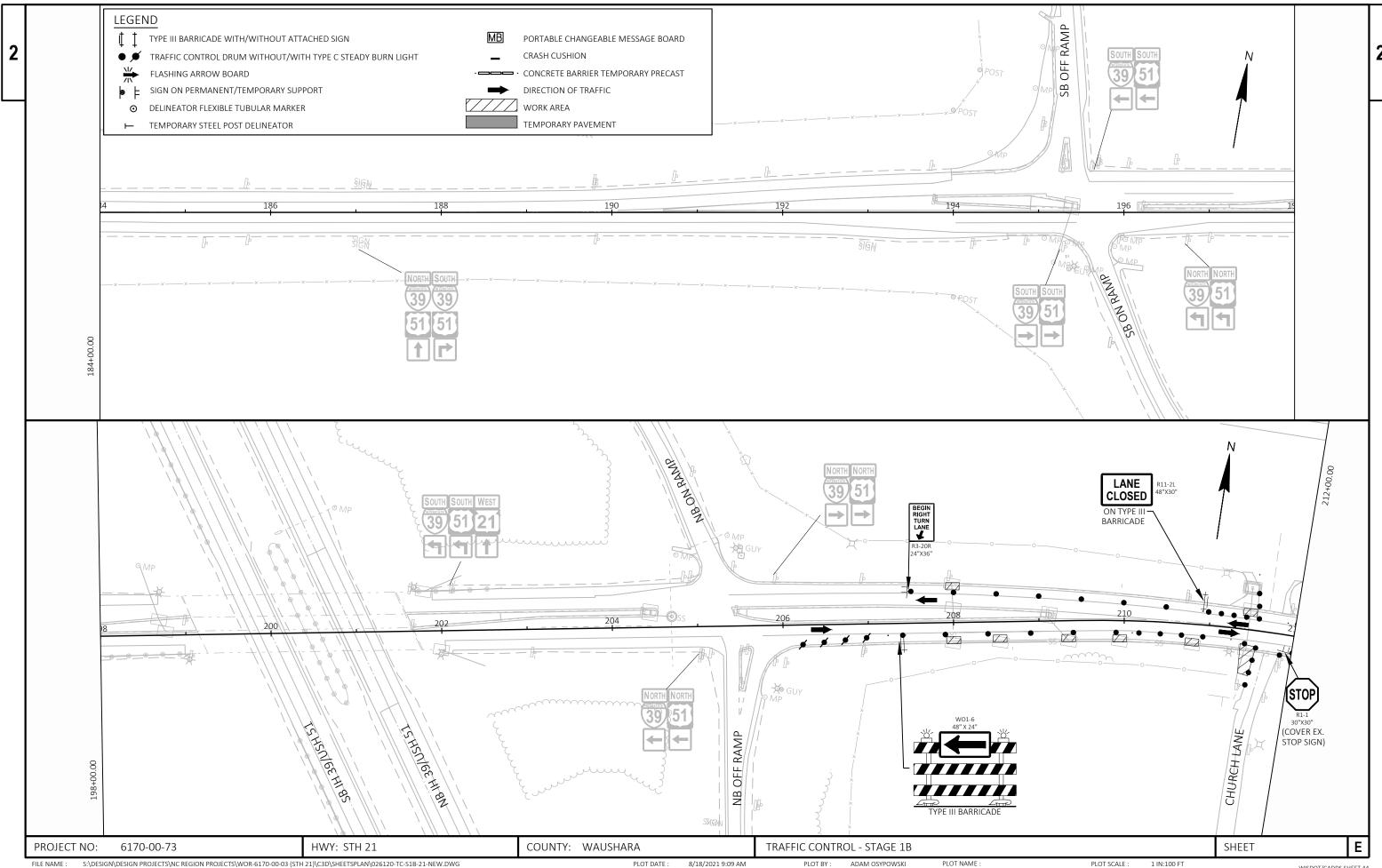


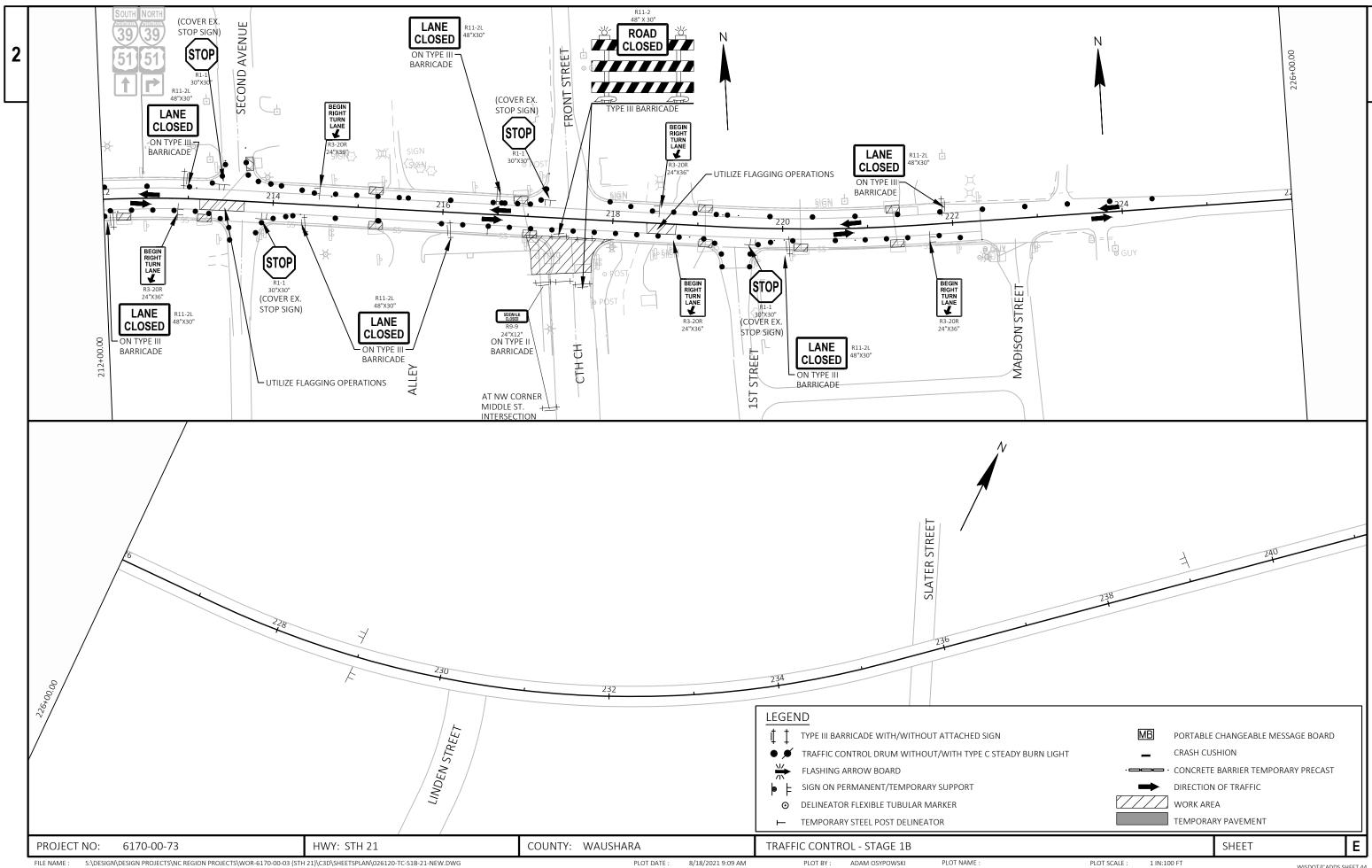
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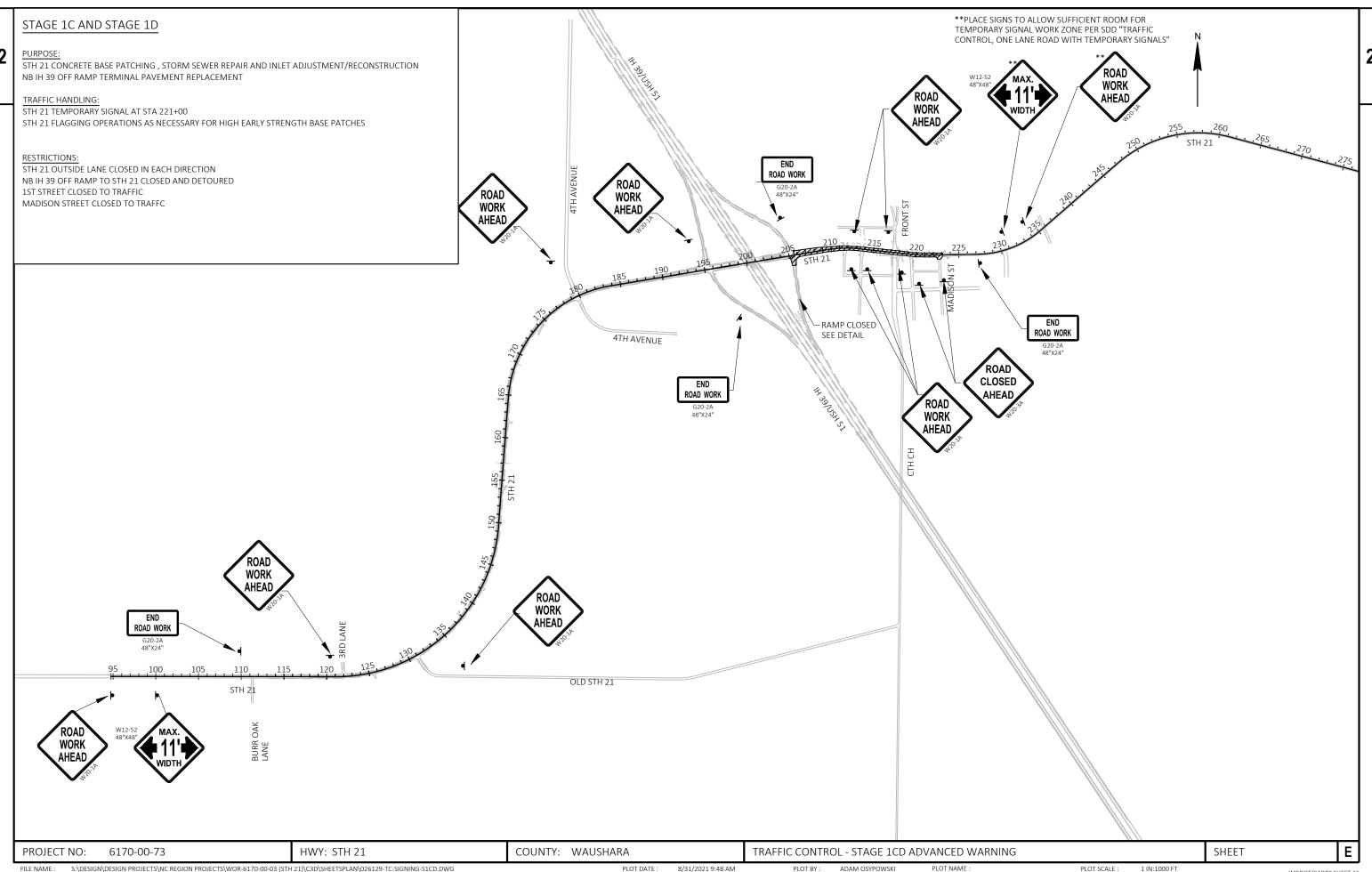


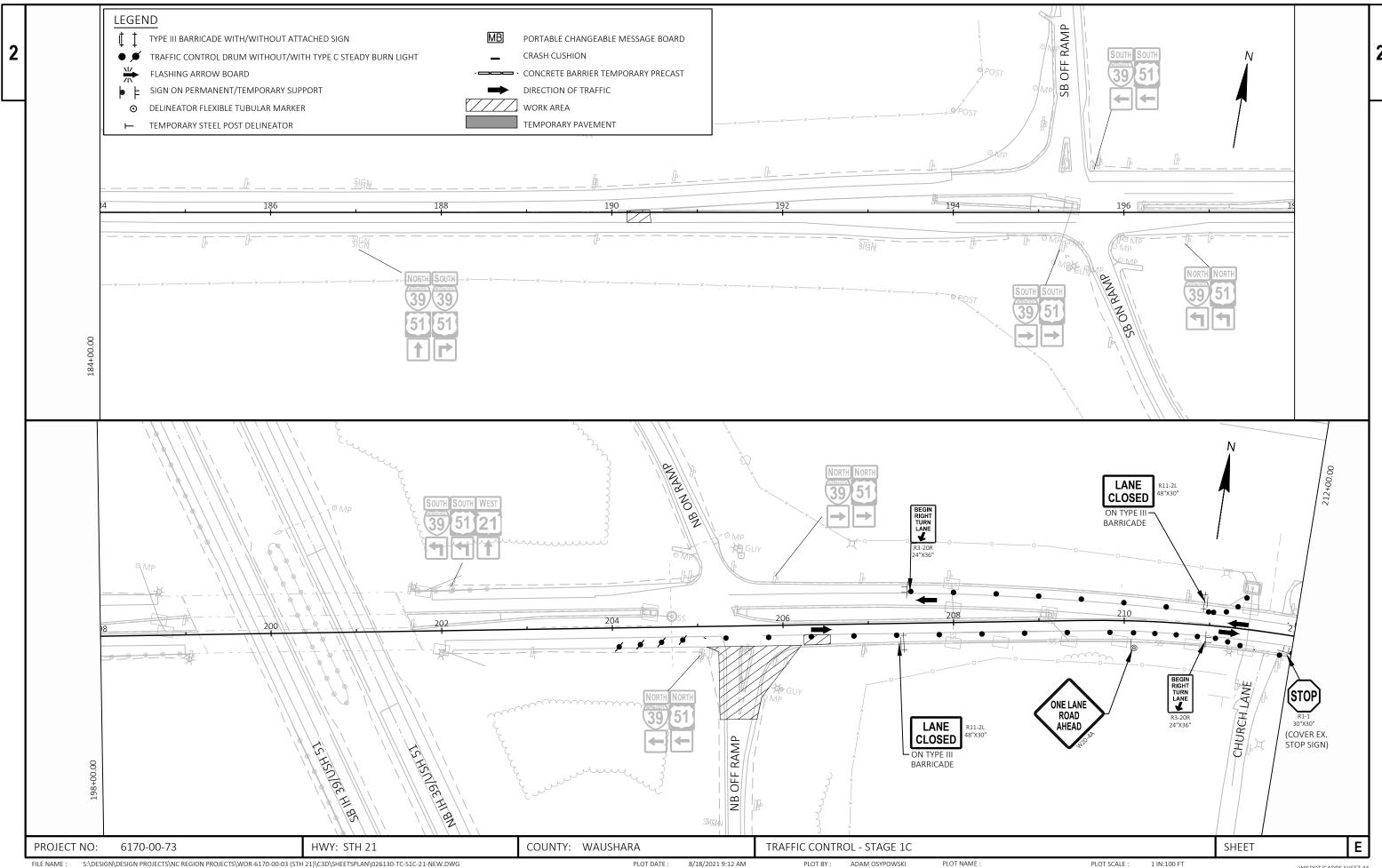


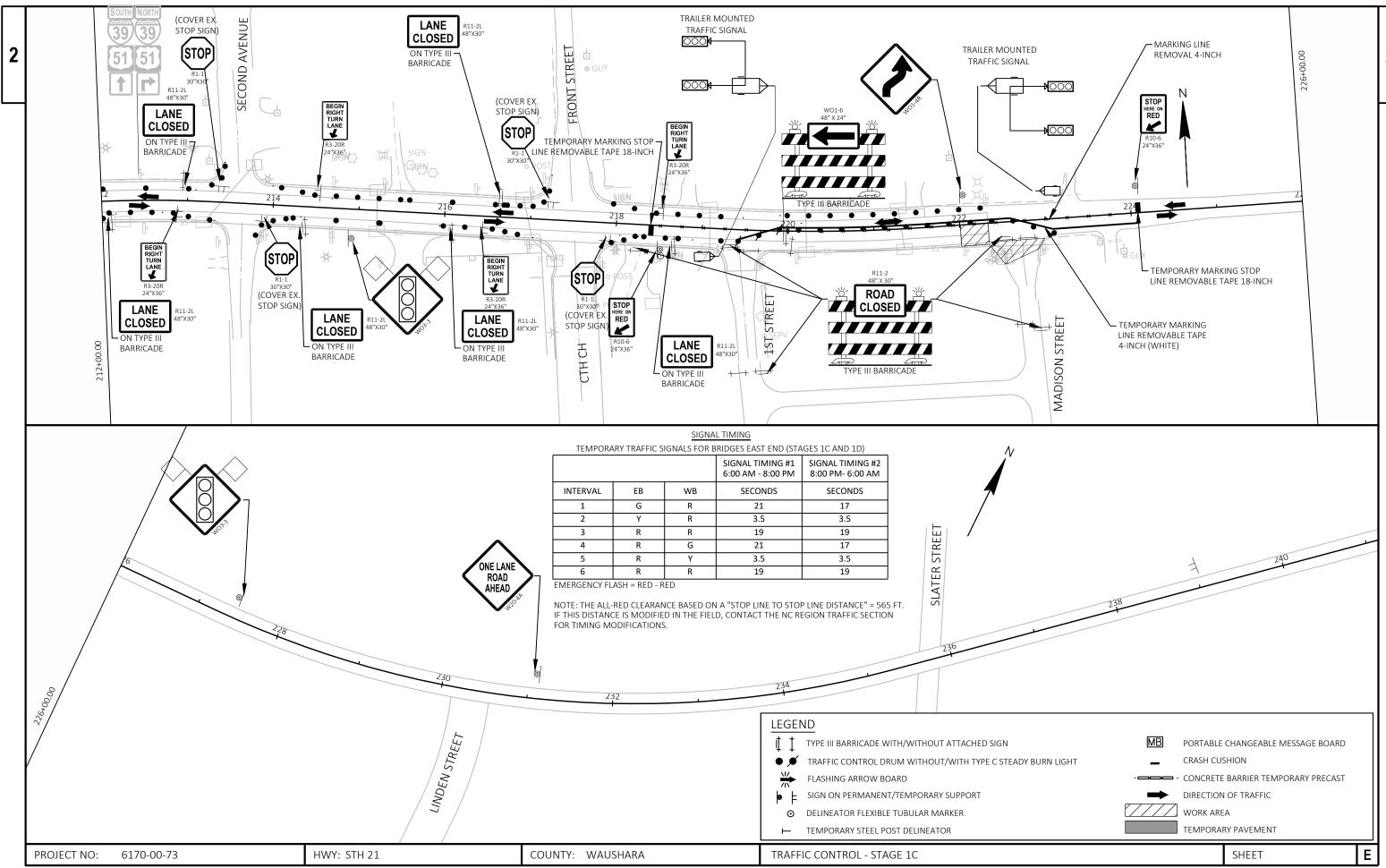












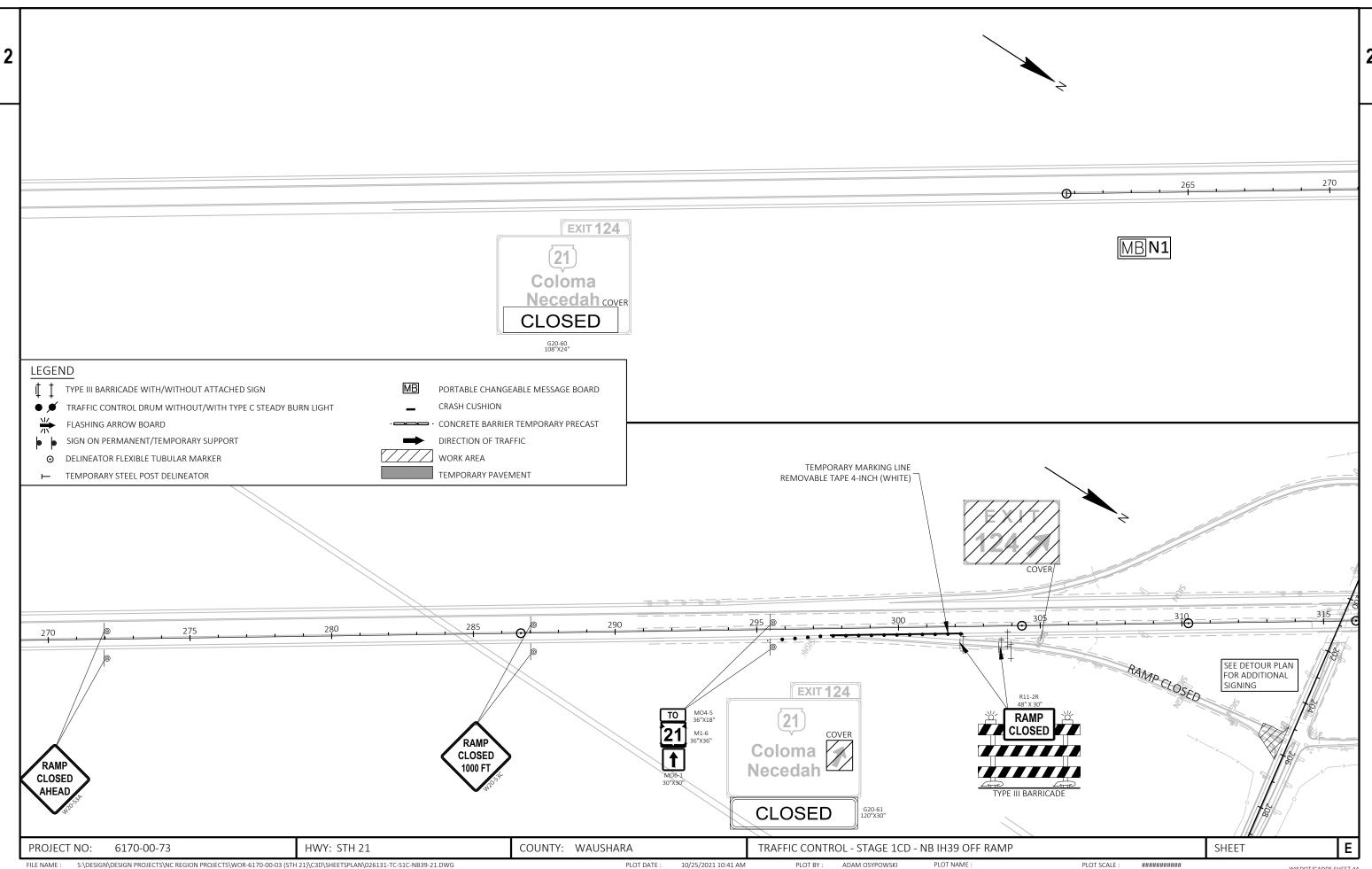
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PLOT DATE : 8/18/2021 9:12 AM

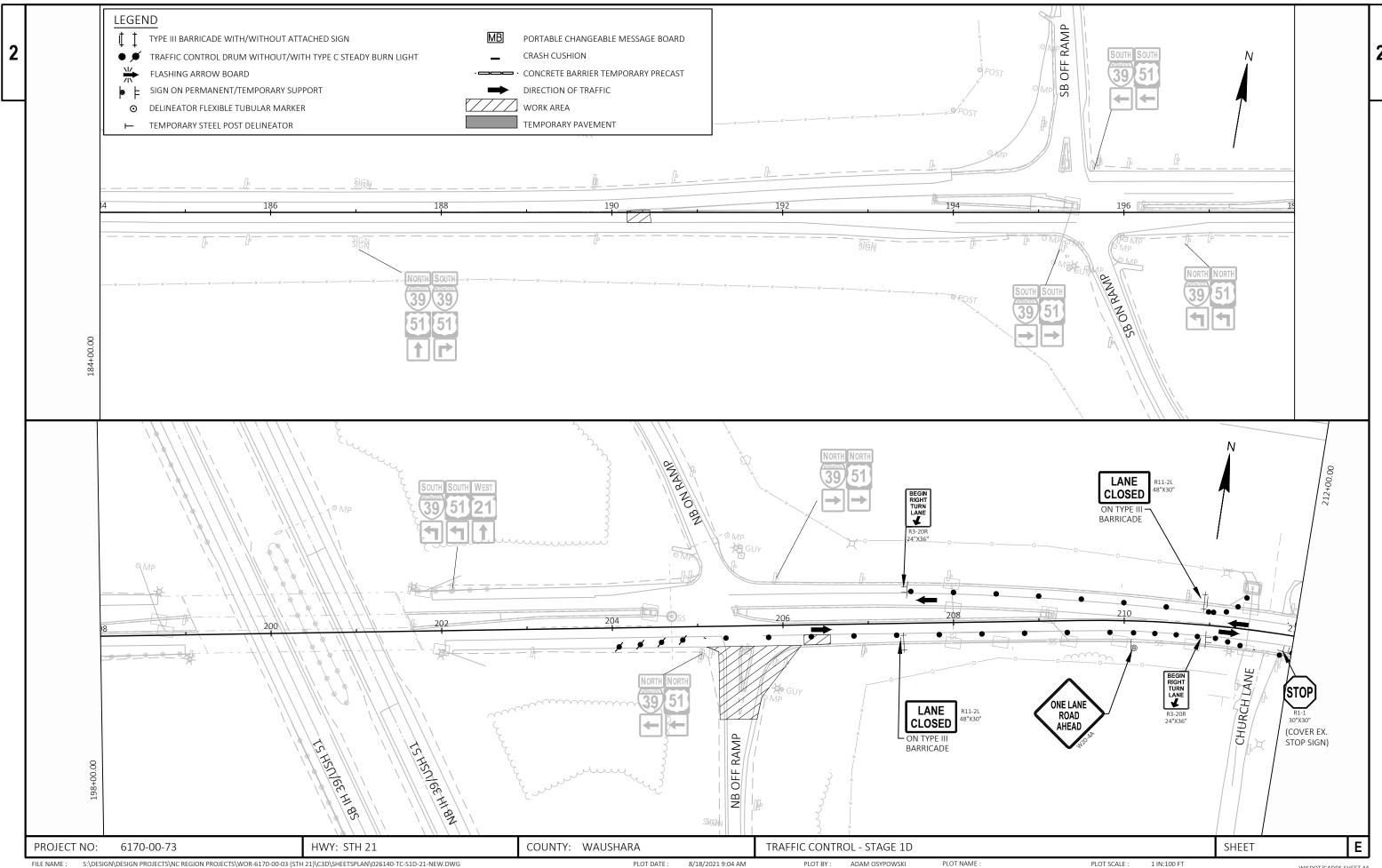
ADAM OSYPOWSKI PLO

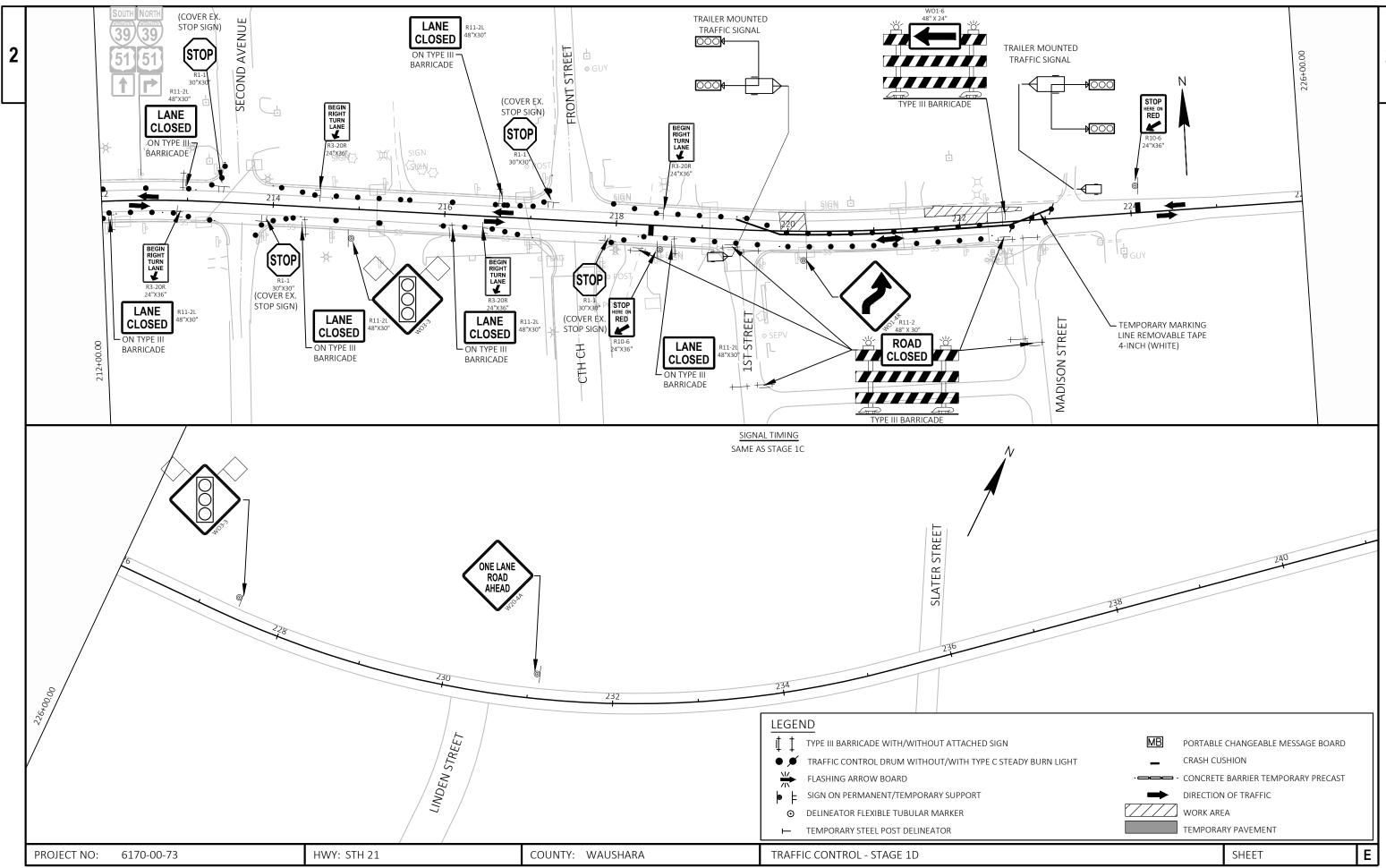
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS



S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\C3D\SHEETSPLAN\026131-TC-S1C-NB39-21.DWG LAYOUT NAME - (101)





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S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\C3D\SHEETSPLAN\026201-TC-SIGNING-S2.DWG

LAYOUT NAME - Overview

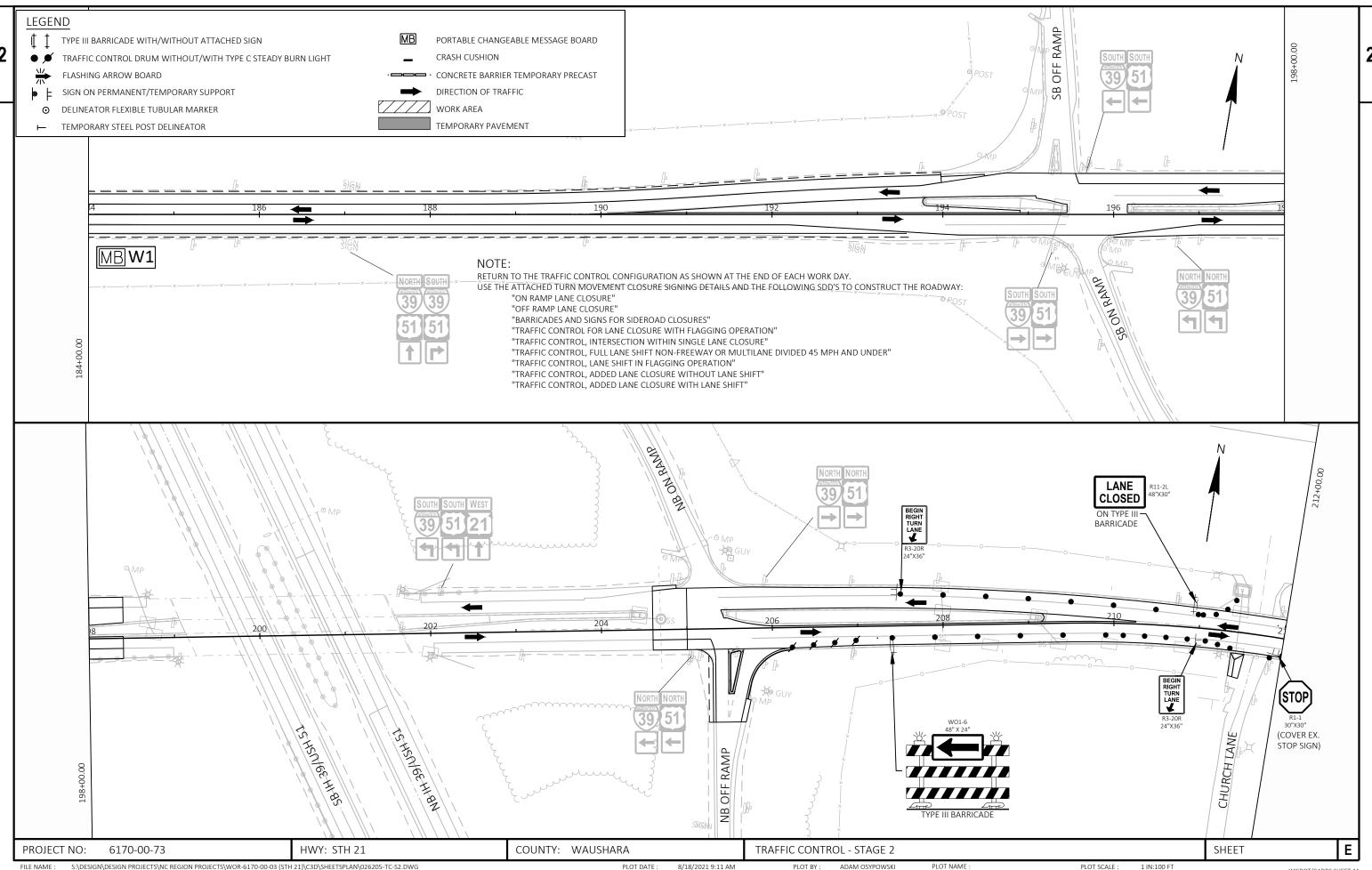
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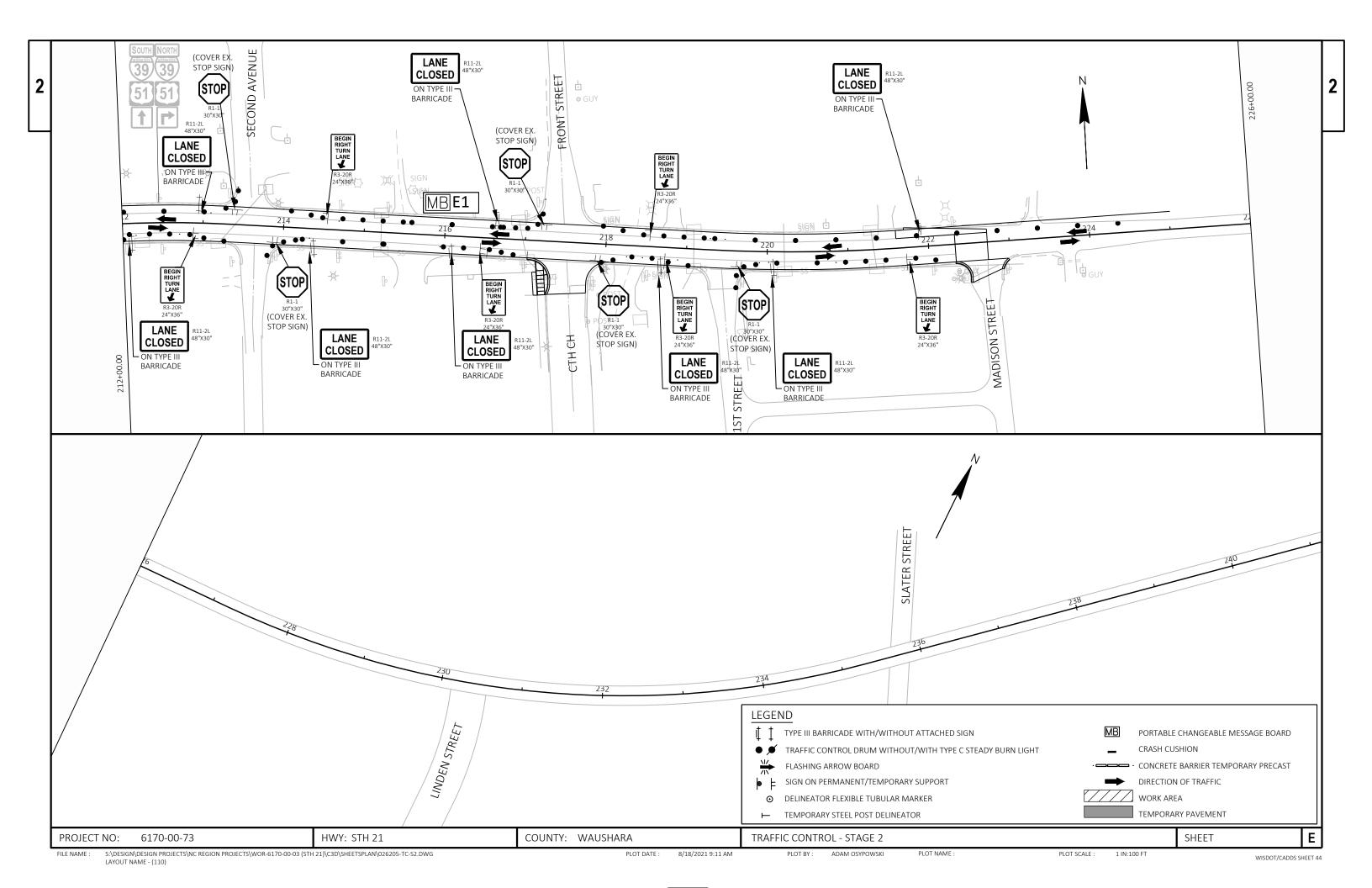
ADAM OSYPOWSKI

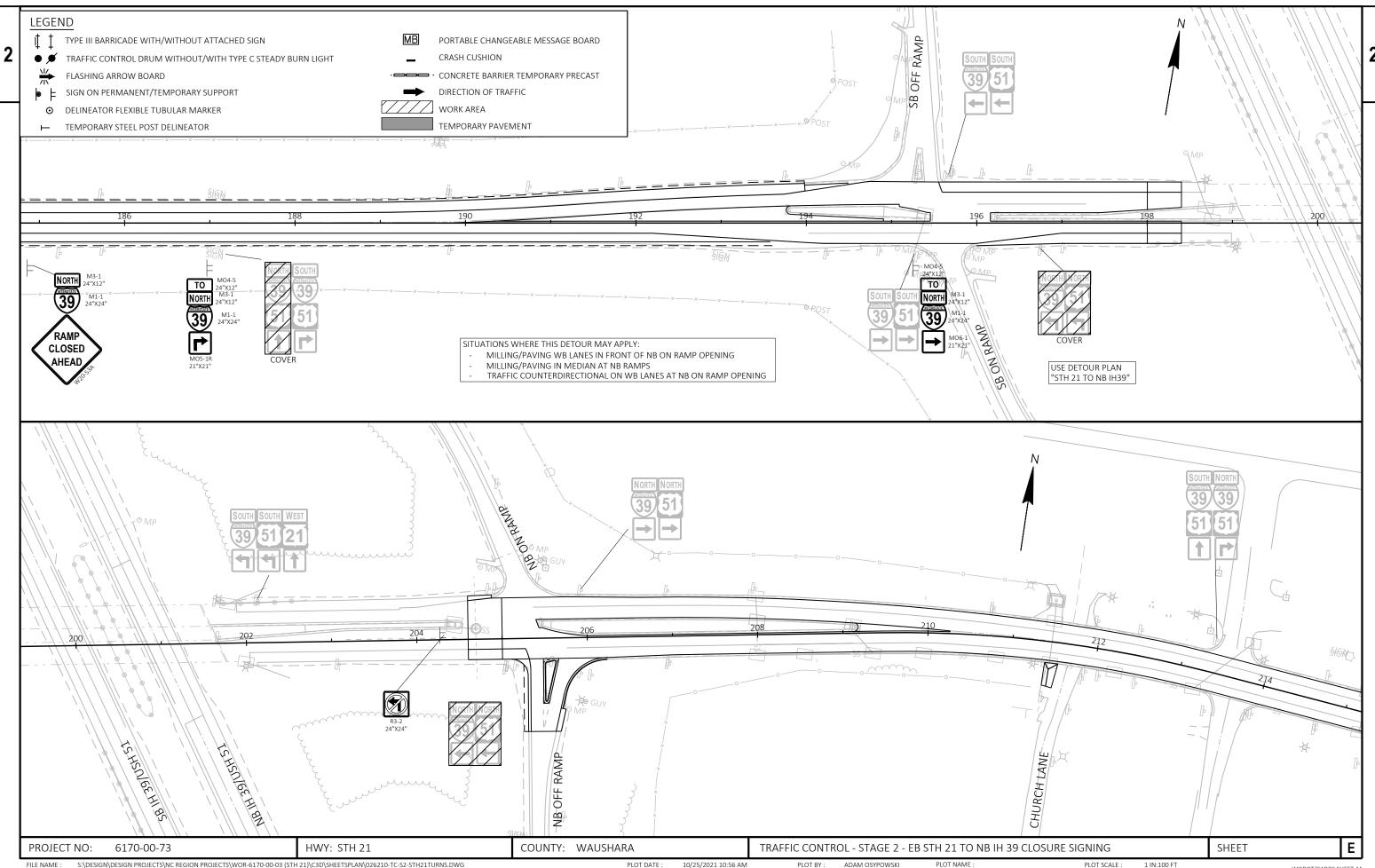
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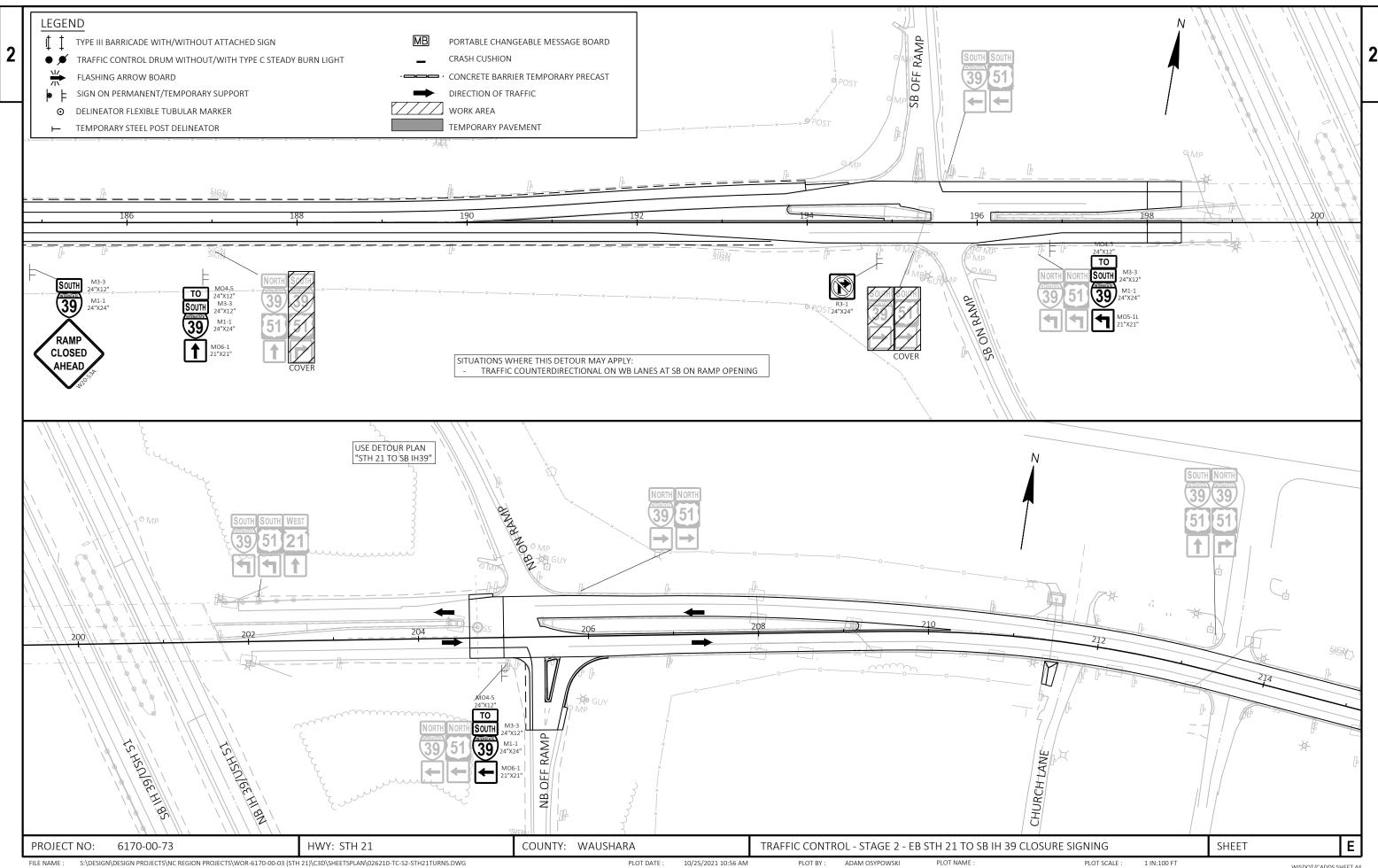
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1 IN:1000 FT







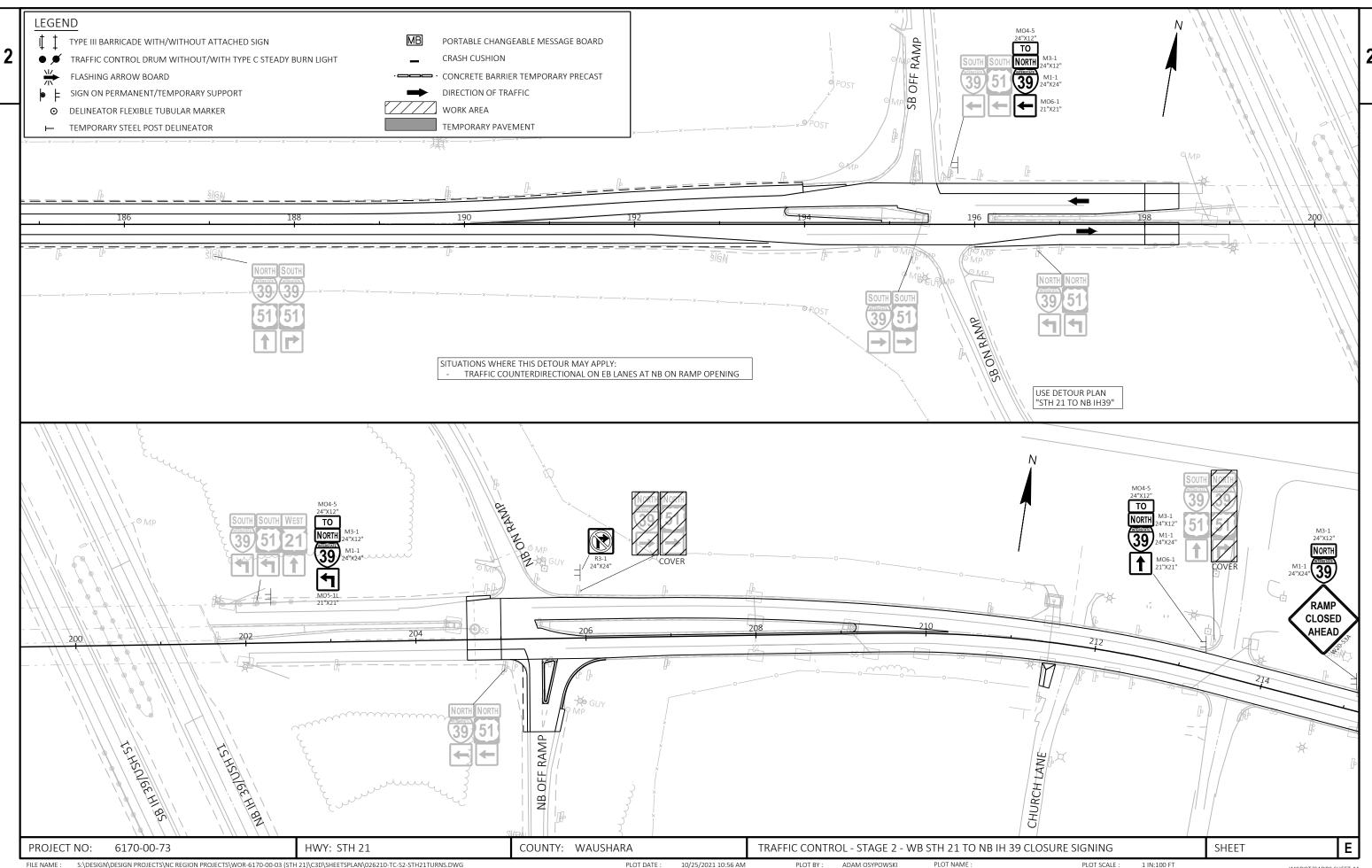


PLOT DATE :

ADAM OSYPOWSKI

PLOT NAME :

PLOT SCALE :

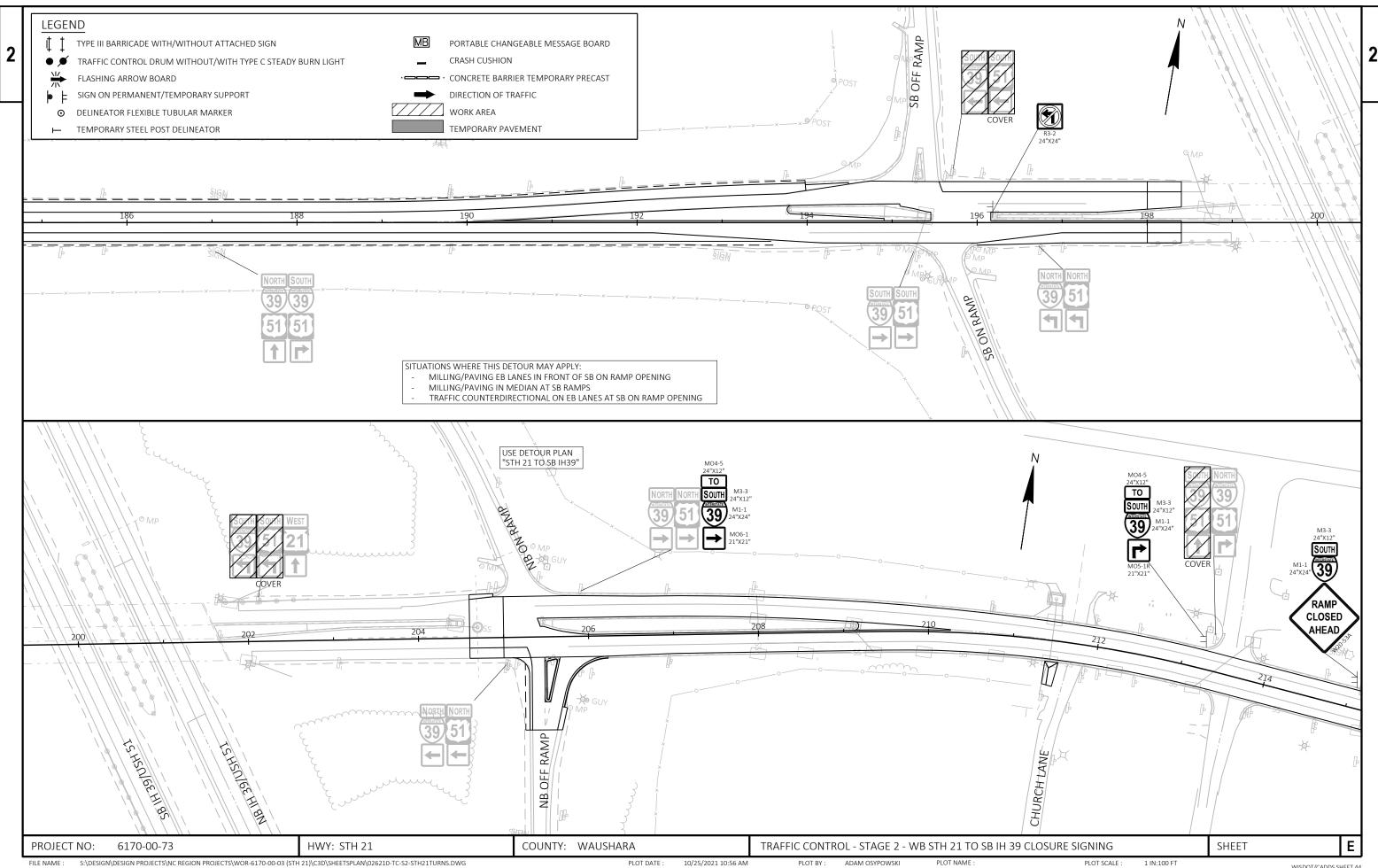


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PLOT DATE : 10/25/2021 10:56 AM ADAM OSYPOWSKI

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

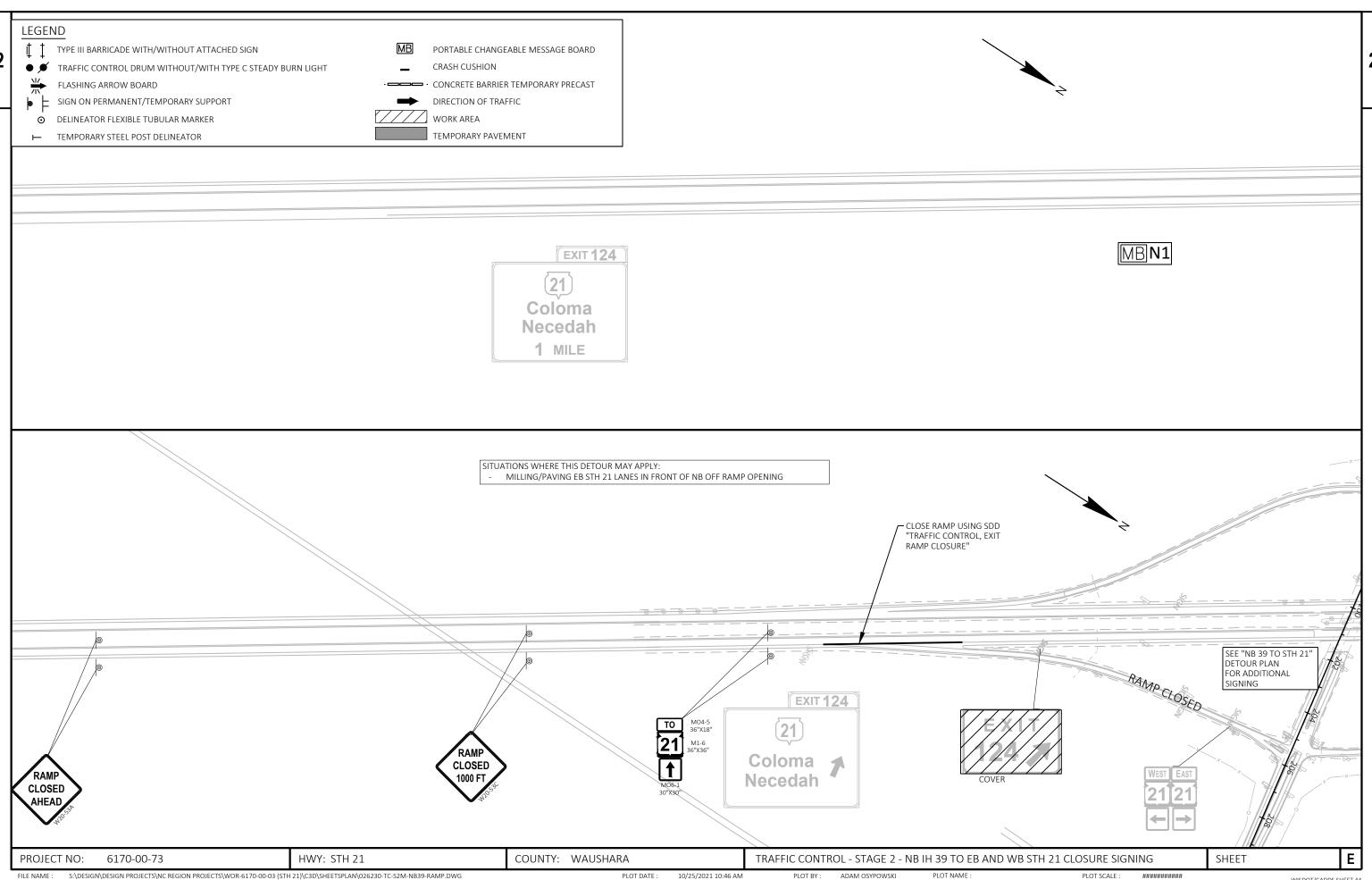


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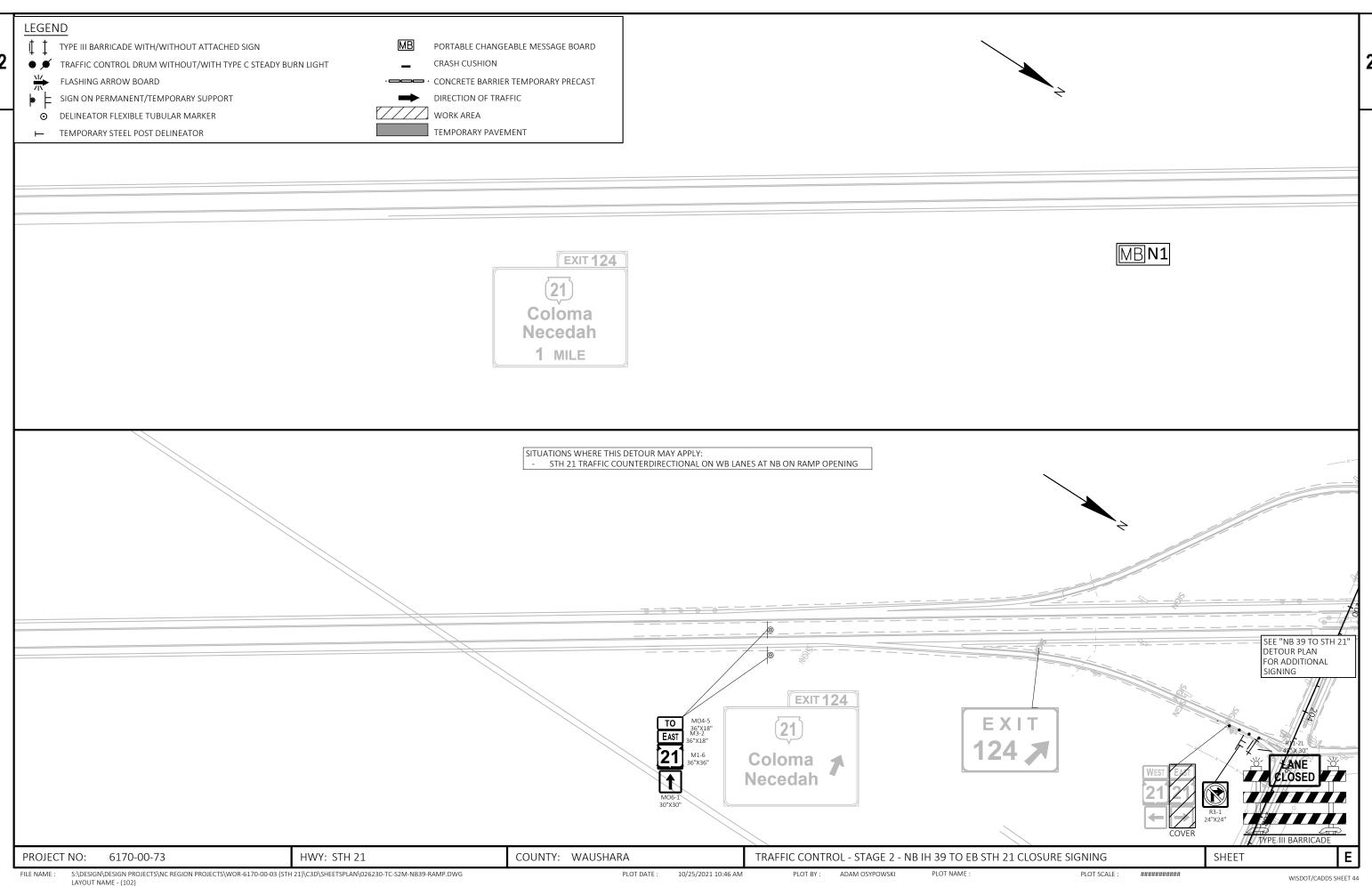
ADAM OSYPOWSKI

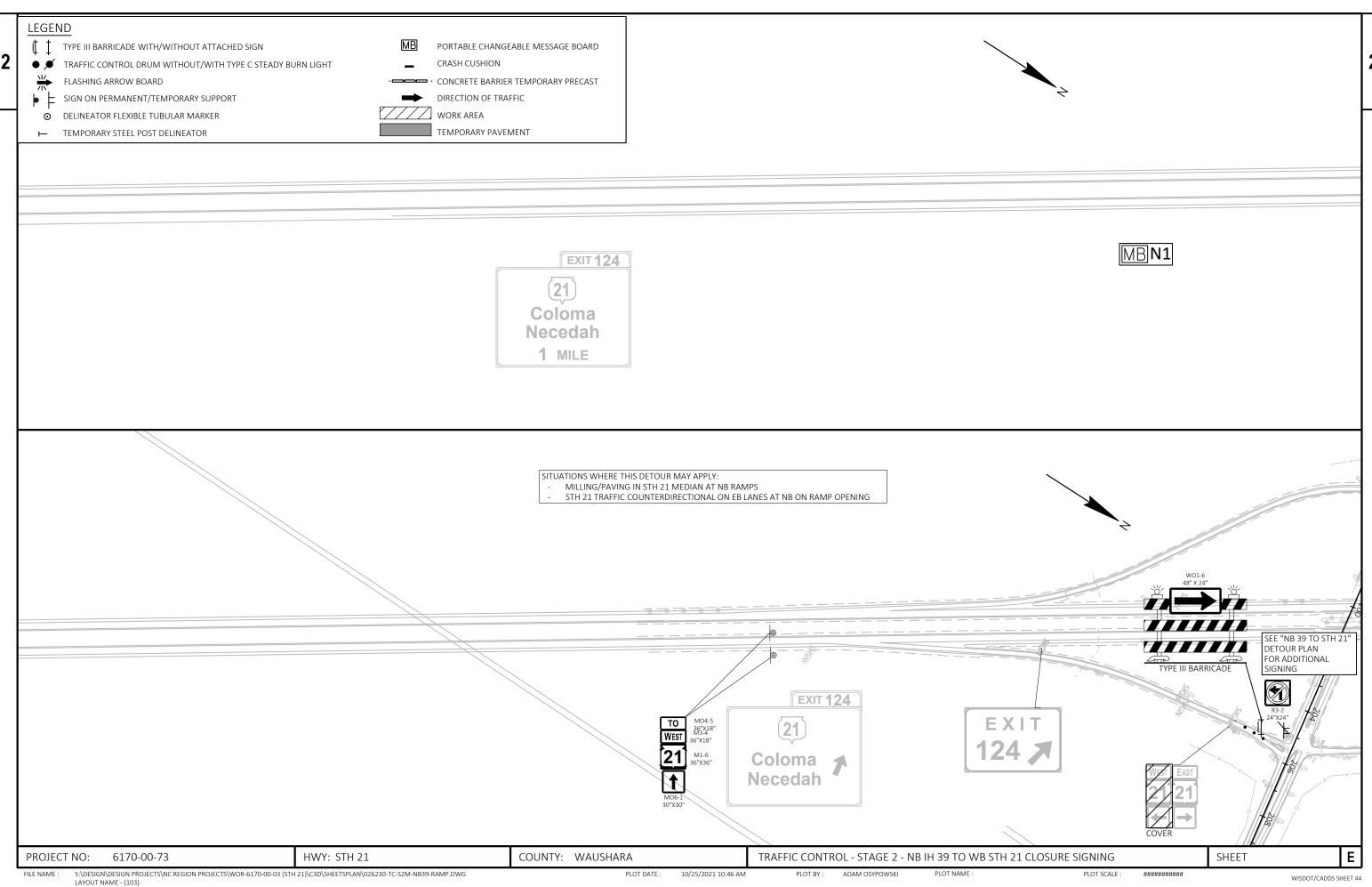
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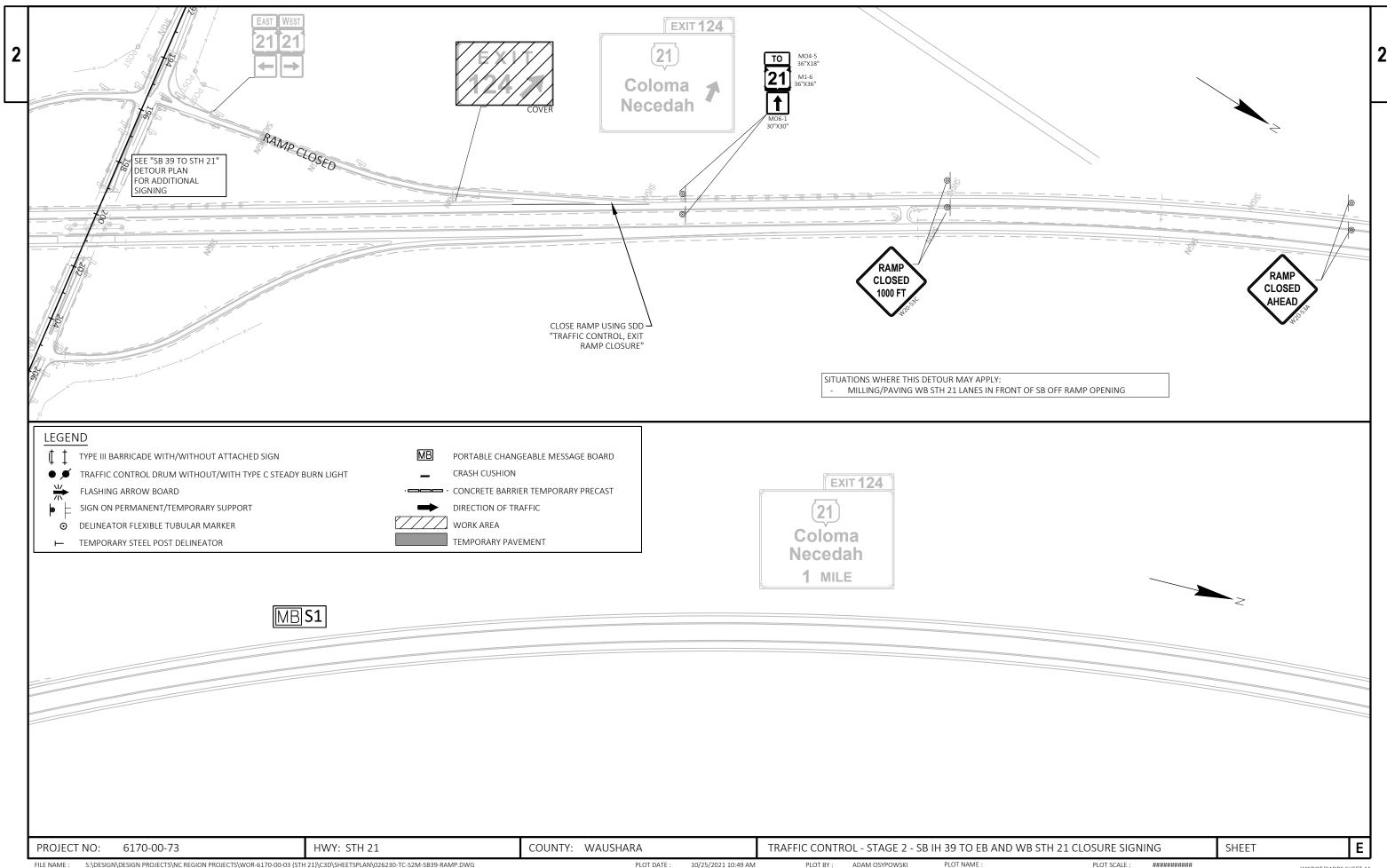
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PLOT NAME :



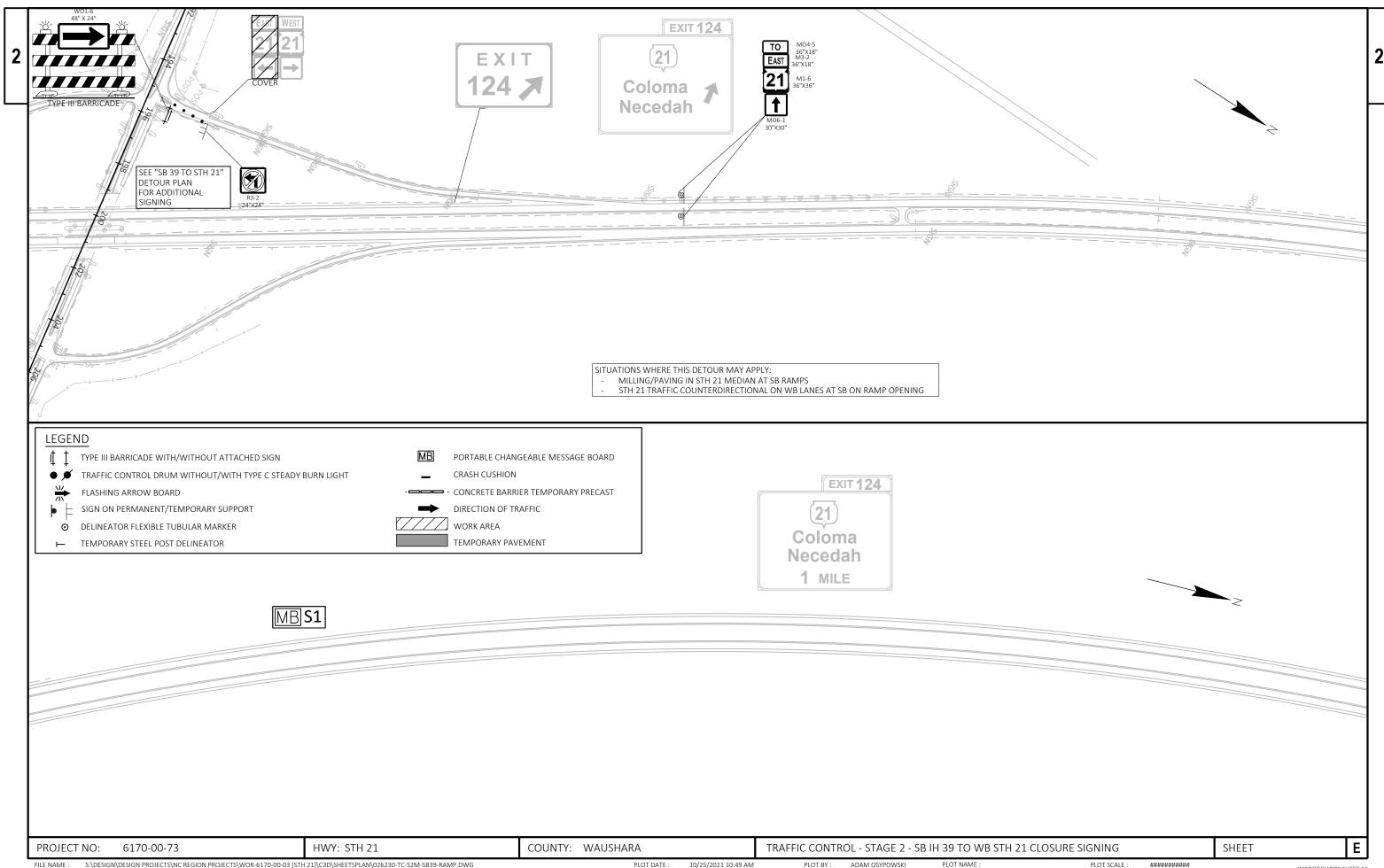




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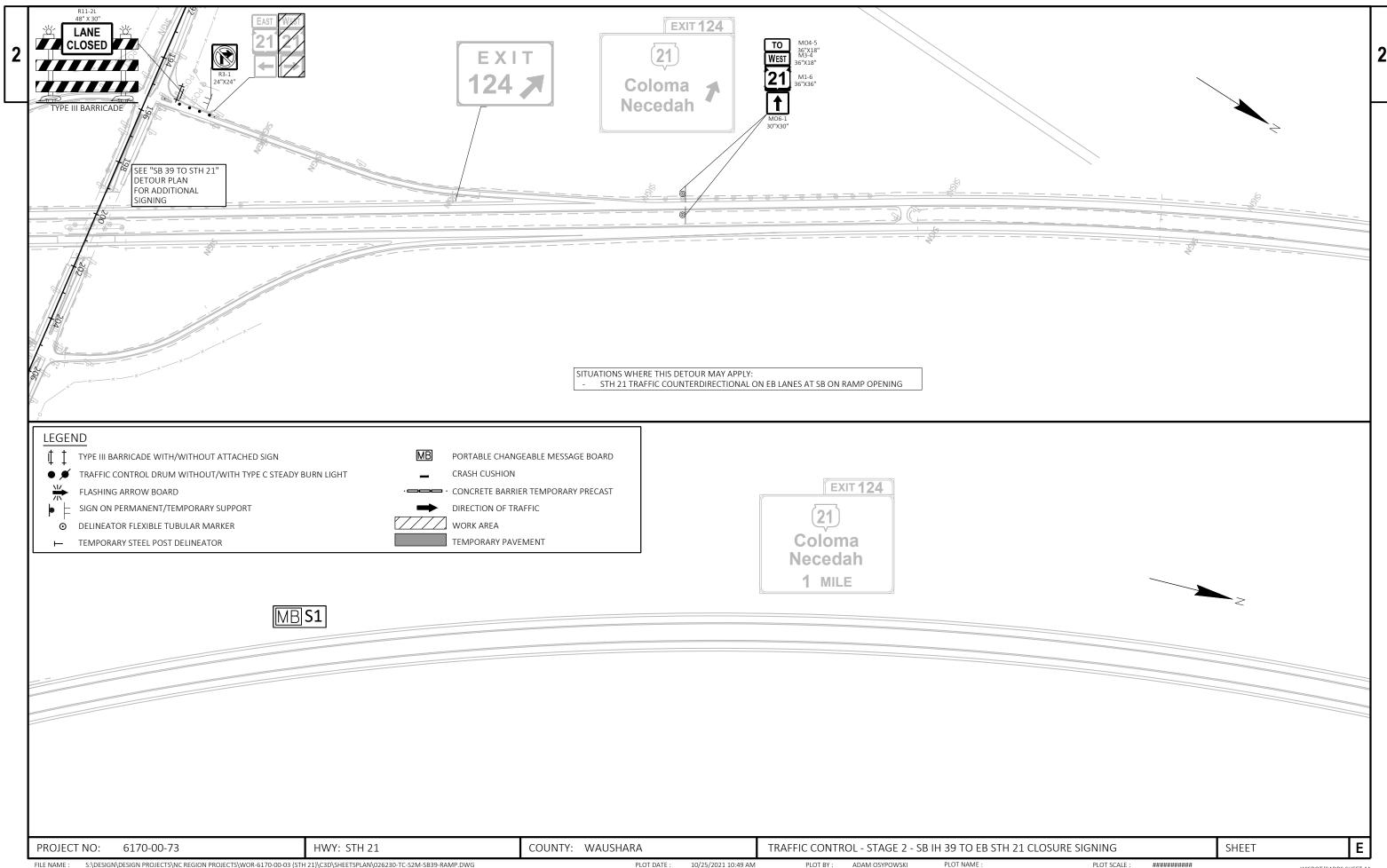
PLOT BY: ADAM OSYPOWSKI

PLOT NAME :



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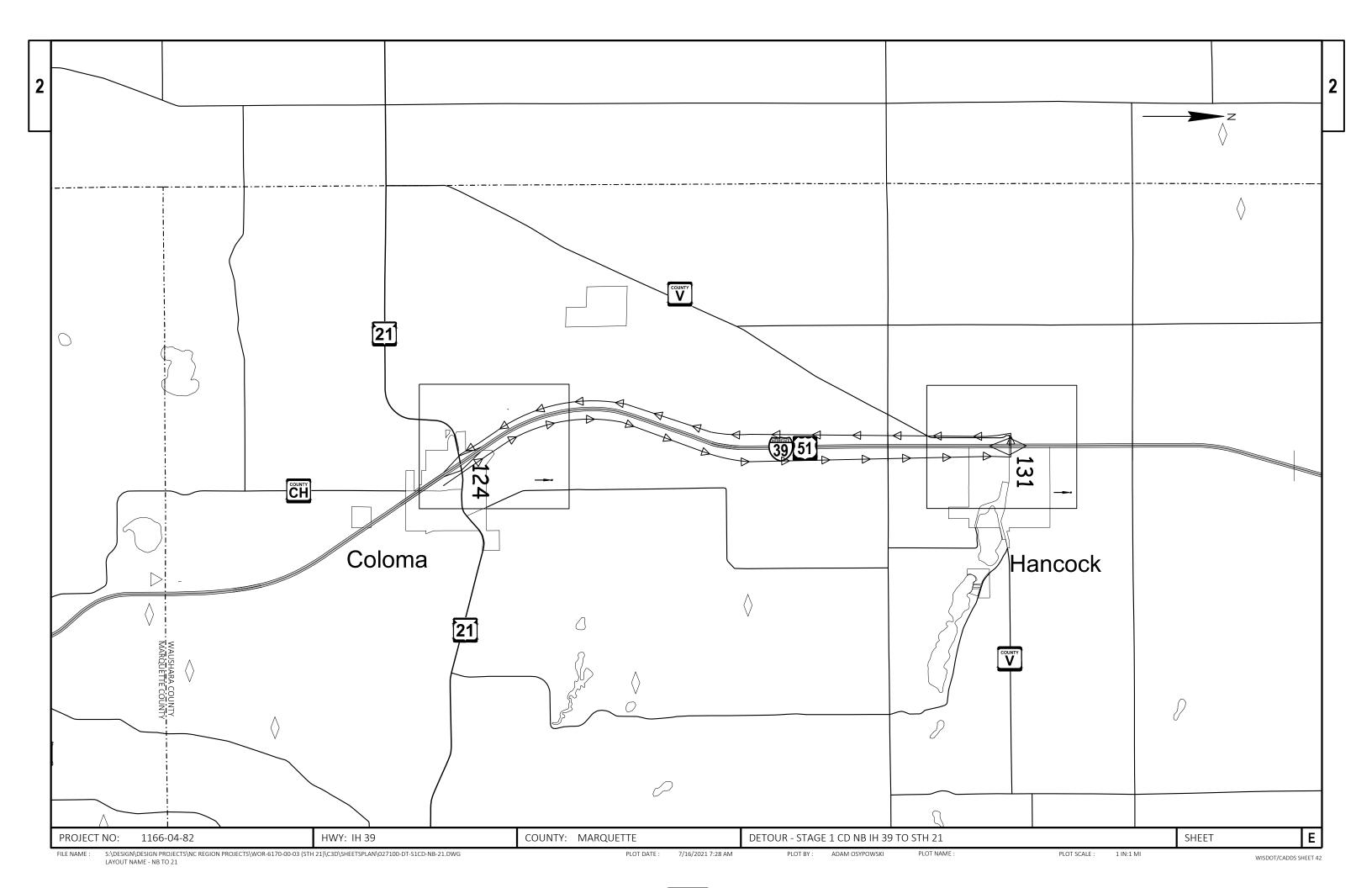
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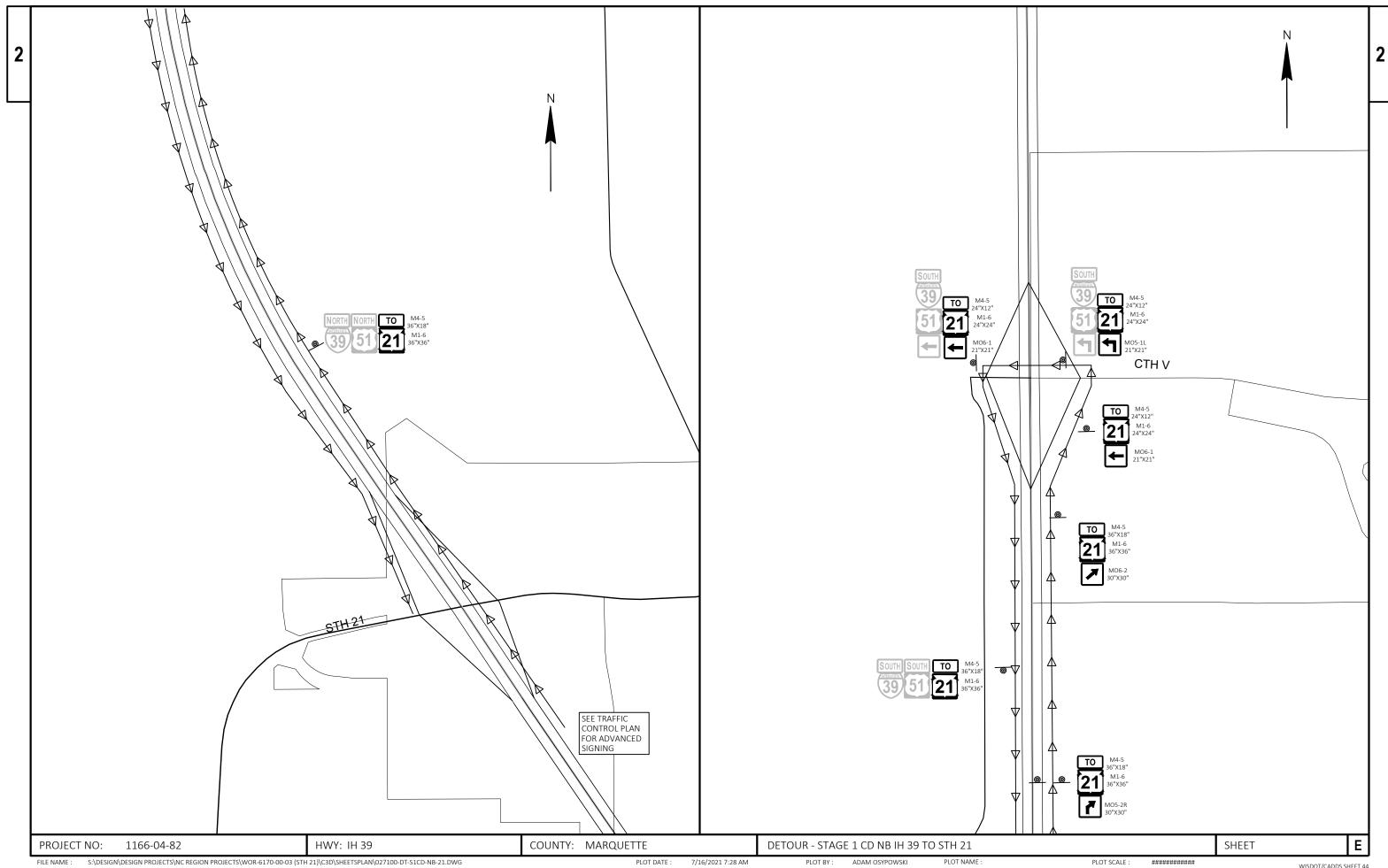


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PLOT BY: ADAM OSYPOWSKI

PLOT NAME :

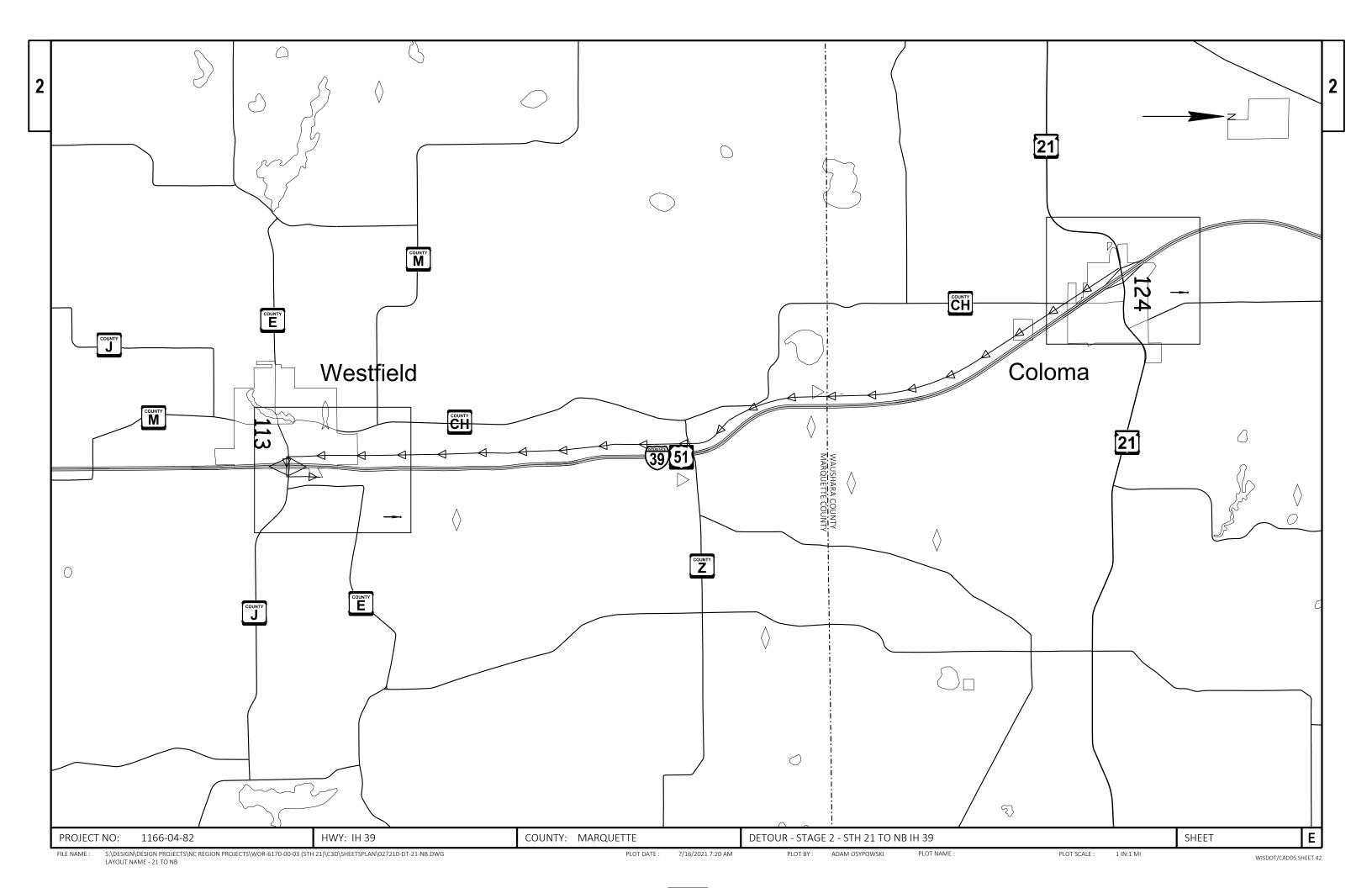


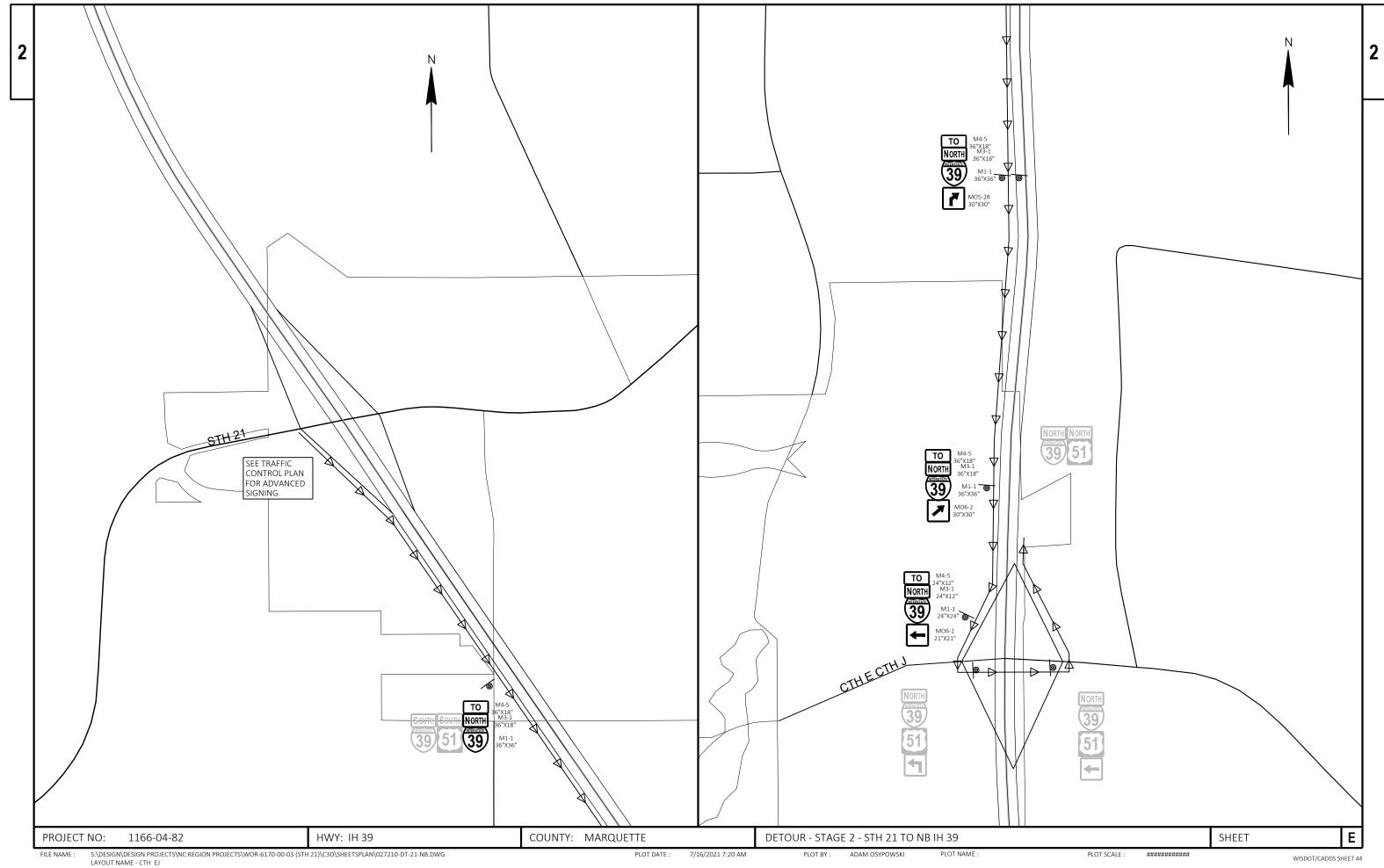


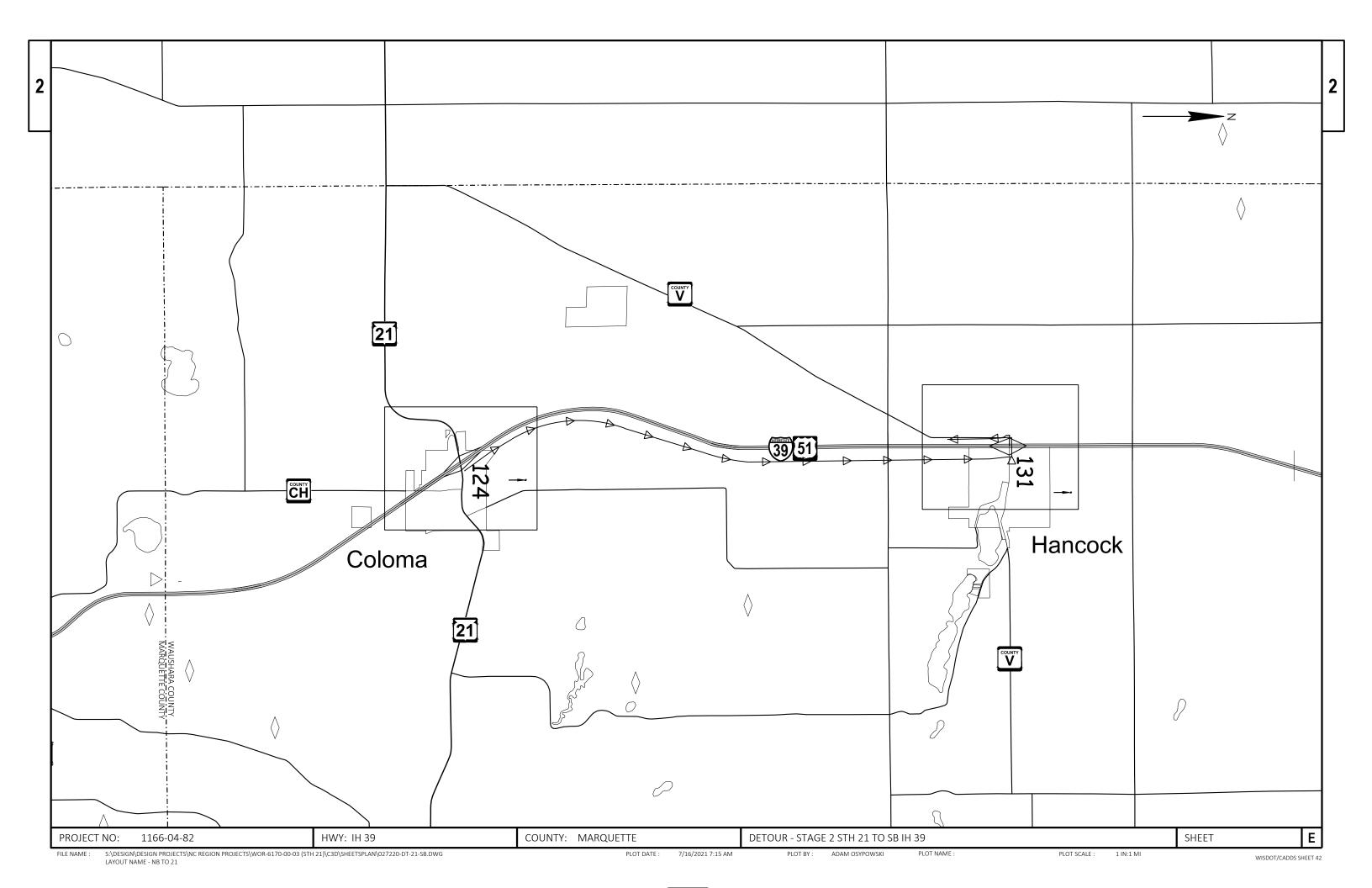
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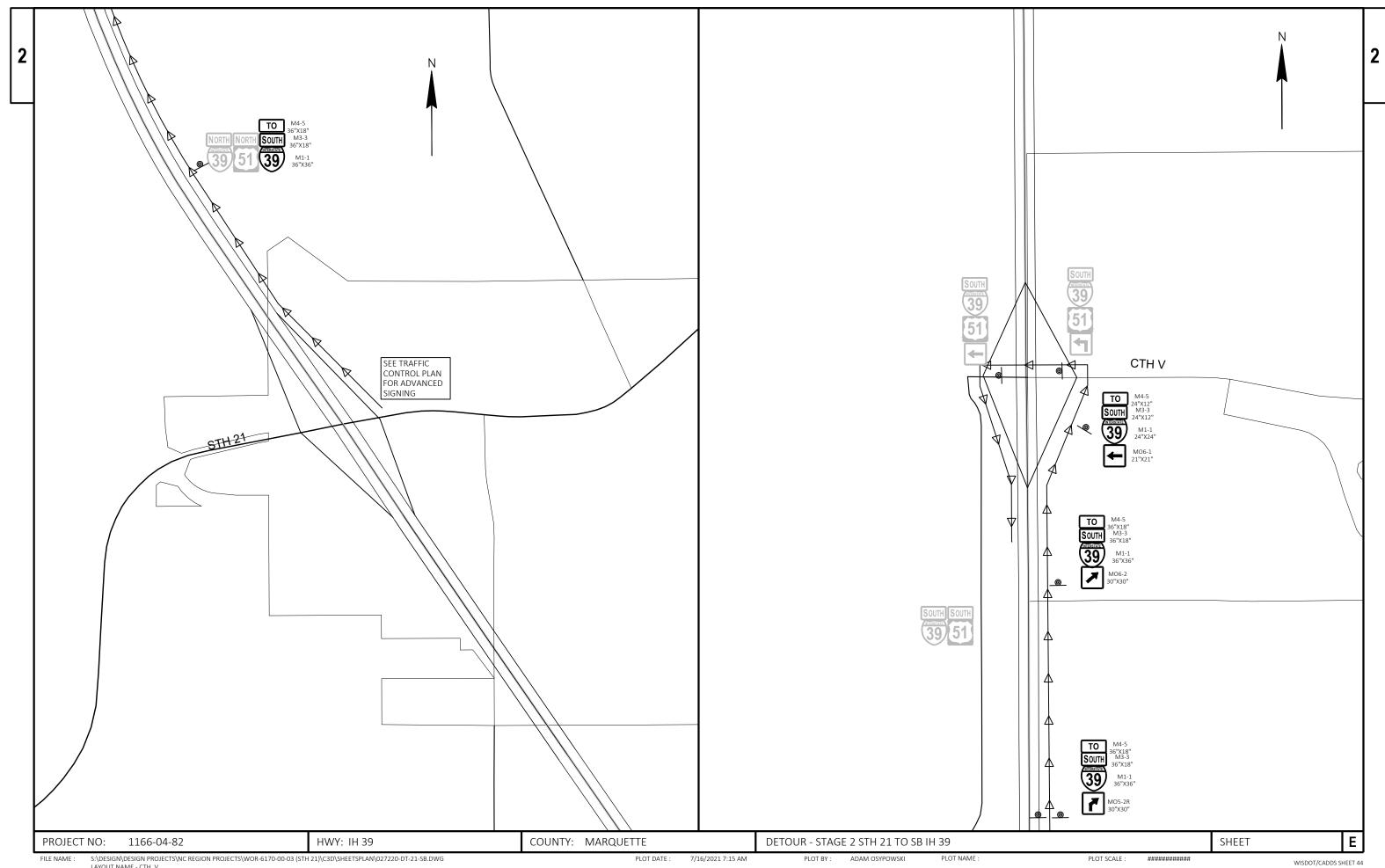
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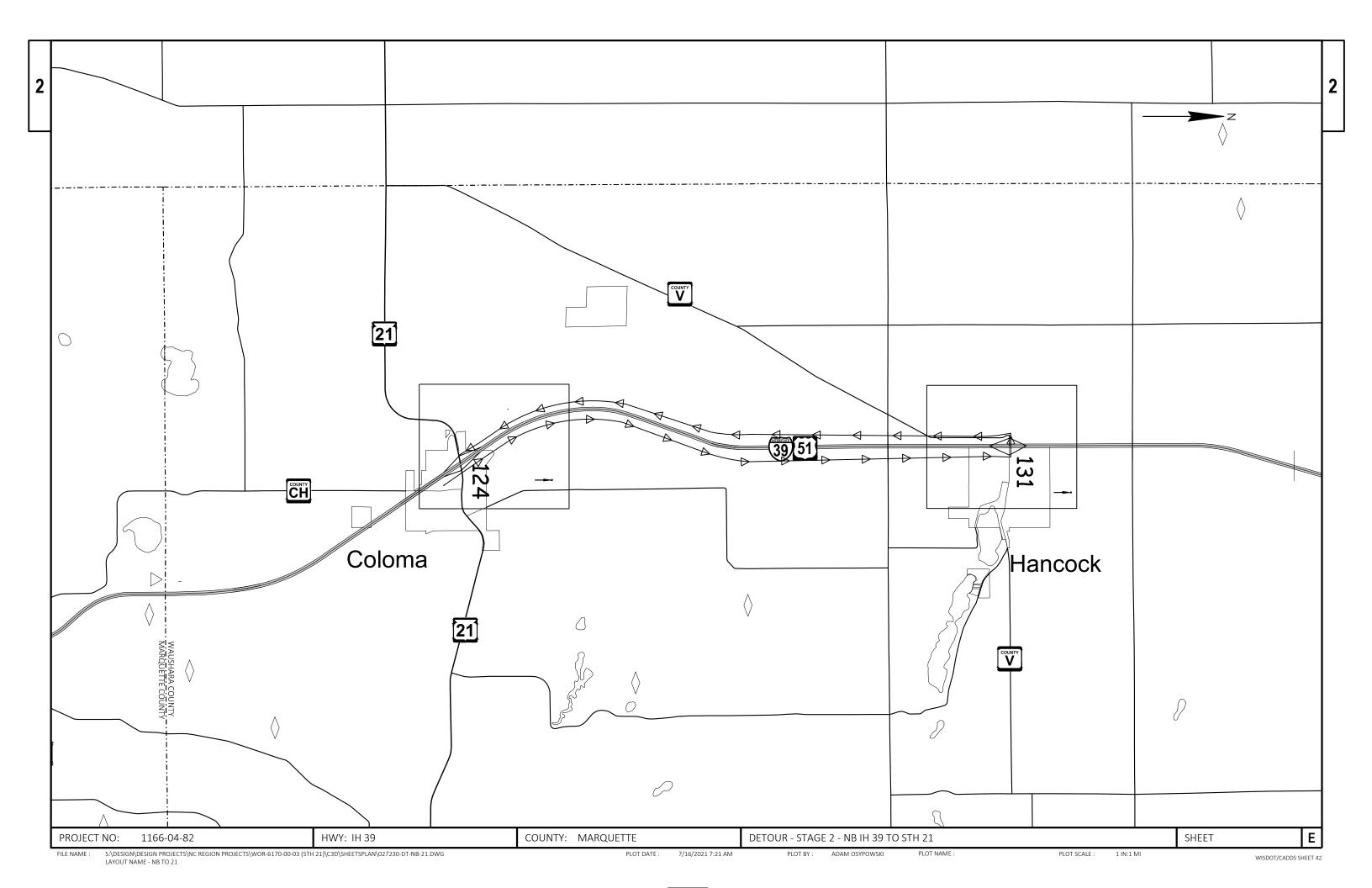


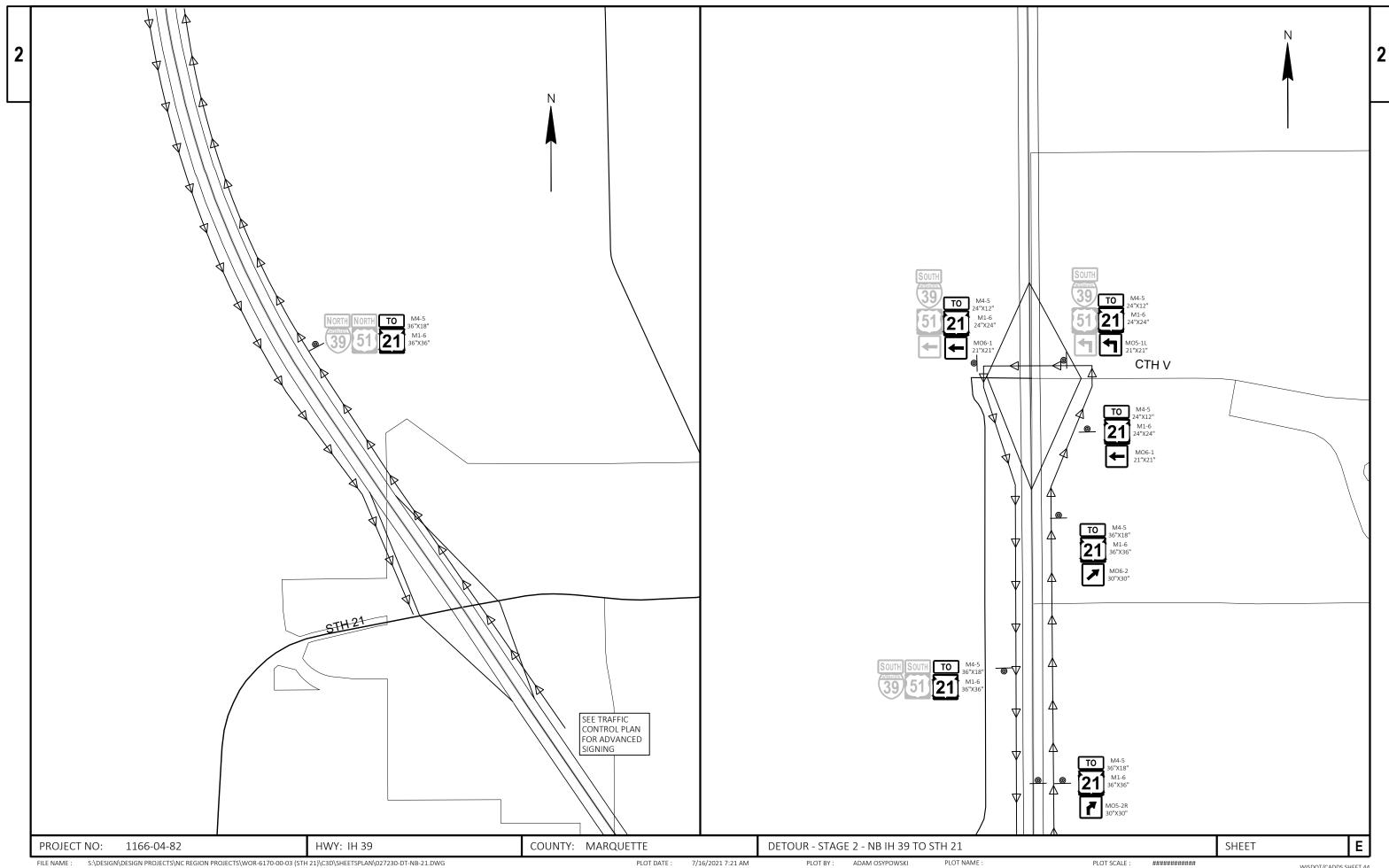






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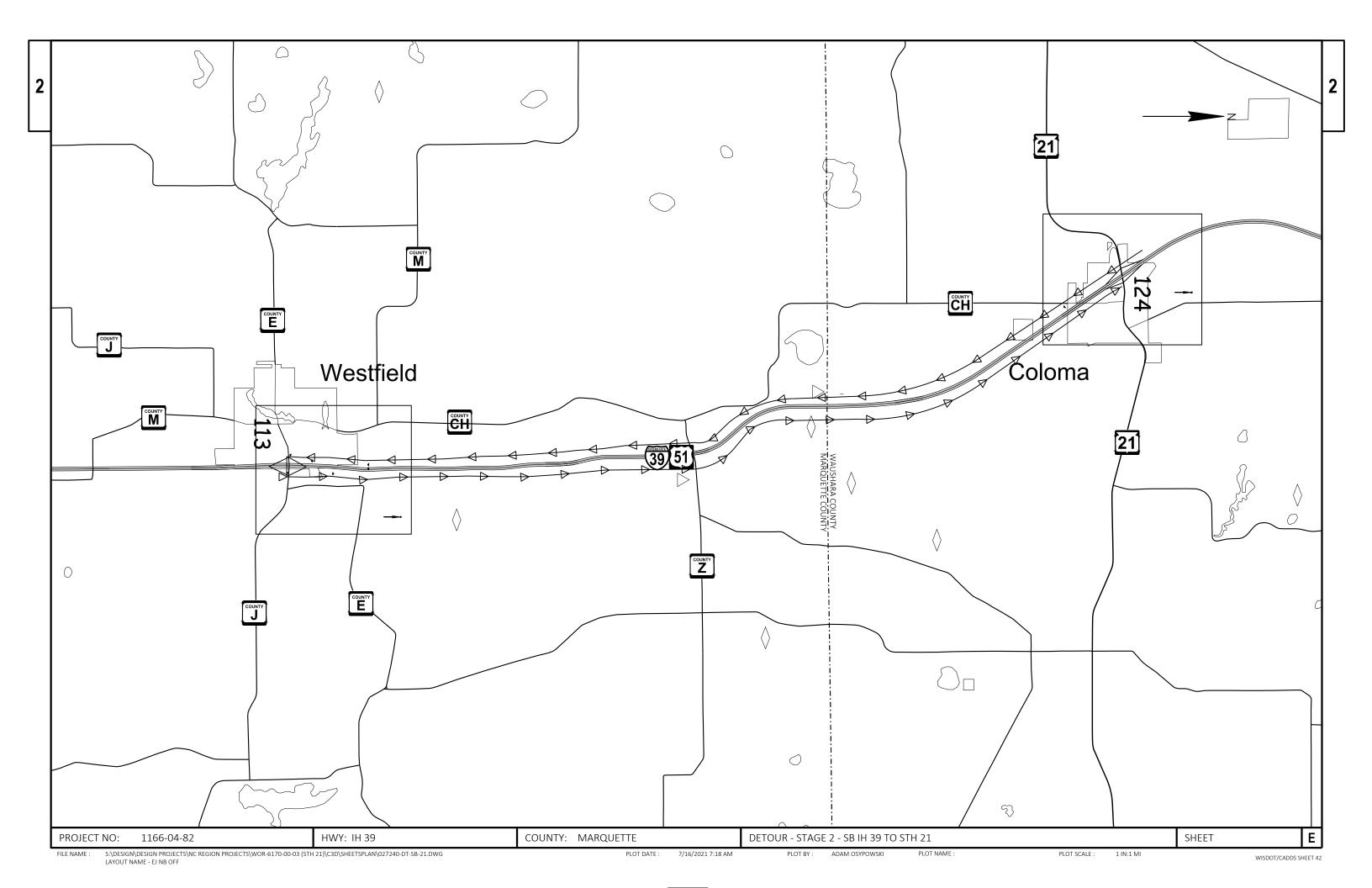
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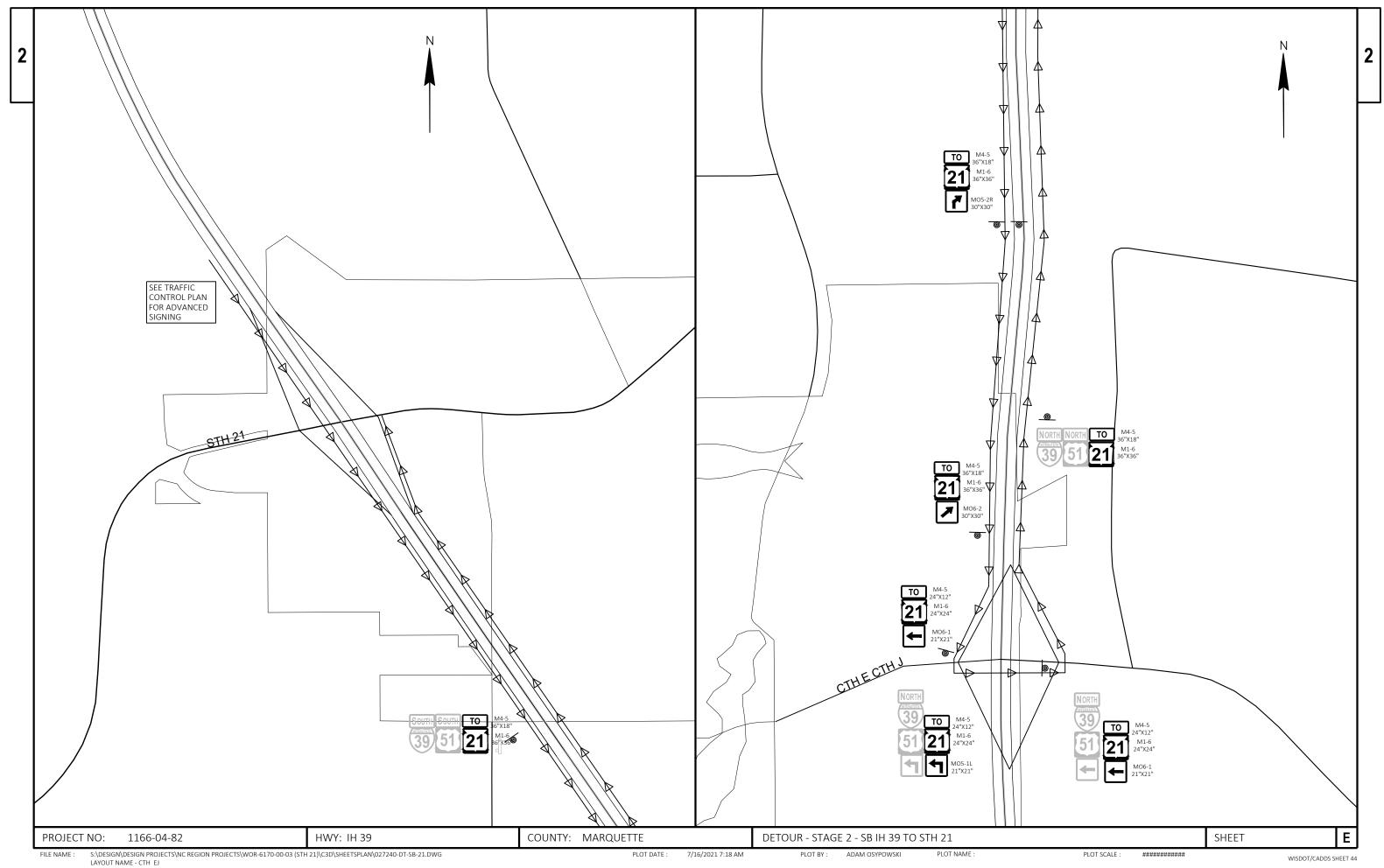
PLOT BY: ADAM OSYPOWSKI

PLOT NAME :

PLOT SCALE :

WISDOT/CADDS SHEET 44





PLOT SCALE : ##############

WISDOT/CADDS SHEET 44

6170-	-00-73

					0170-00-75	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0100	Removing Concrete Pavement	SY	509.000	509.000	
0004	204.0105	Removing Pavement Butt Joints	SY	603.000	603.000	
0006	204.0109.S	Removing Concrete Surface Partial Depth	SF	286,128.000	286,128.000	
8000	204.0110	Removing Asphaltic Surface	SY	1,217.000	1,217.000	
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	436.000	436.000	
0012	204.0120	Removing Asphaltic Surface Milling	SY	10,375.000	10,375.000	
0014	204.0150	Removing Curb & Gutter	LF	1,224.000	1,224.000	
0016	204.0155	Removing Concrete Sidewalk	SY	53.000	53.000	
0018	204.0245	Removing Storm Sewer (size) 01. 18-Inch	LF	40.000	40.000	
0020	204.0245	Removing Storm Sewer (size) 02. 24-Inch	LF	6.000	6.000	
0022	204.0245	Removing Storm Sewer (size) 03. 36-Inch	LF	76.000	76.000	
0024	204.9180.S	Removing (item description) 01. Asphaltic Surface Flumes	SY	38.000	38.000	
0026	211.0200	Prepare Foundation for Concrete Pavement (project) 01. 6170-00-73	LS	1.000	1.000	
0028	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	15.000	15.000	
0030	213.0100	Finishing Roadway (project) 01. 6170-00-73	EACH	1.000	1.000	
0032	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,336.000	1,336.000	
0034	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	50.000	50.000	
0036	390.0303	Base Patching Concrete	SY	333.000	333.000	
0038	390.0403	Base Patching Concrete Shes	SY	396.000	396.000	
0040	390.0501.S		EACH	1.000	1.000	
0042	415.0080	Concrete Pavement 8-Inch	SY	348.000	348.000	
0044	416.0610	Drilled Tie Bars	EACH	538.000	538.000	
0046	416.0620	Drilled Dowel Bars	EACH	261.000	261.000	
0048	455.0605	Tack Coat	GAL	4,943.000	4,943.000	
0050	460.2000	Incentive Density HMA Pavement	DOL	2,727.000	2,727.000	
0052		•	TON	1,768.000	1,768.000	
0054	460.6225	HMA Pavement 5 MT 58-28 S	TON	92.000	92.000	
0056	460.6424	HMA Pavement 4 MT 58-28 H	TON	4,170.000	4,170.000	
0058	465.0105	Asphaltic Surface	TON	428.000	428.000	
0060	465.0110	Asphaltic Surface Patching	TON	20.000	20.000	
0062	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	3.000	3.000	
0064	465.0315	Asphaltic Flumes	SY	43.000	43.000	
0066	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	5,200.000	5,200.000	
0068	520.8000	Concrete Collars for Pipe	EACH	3.000	3.000	
0070	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000	
0072	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	1.000	1.000	
0074	524.0630	Apron Endwalls for Culvert Pipe Salvaged 30-Inch	EACH	1.000	1.000	
0076	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	1,115.000	1,115.000	
0078	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	129.000	129.000	
0800	601.0600	Concrete Curb Pedestrian	LF	42.000	42.000	
0082	602.0410	Concrete Sidewalk 5-Inch	SF	475.000	475.000	
0084	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	25.000	25.000	
0086	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF LF	8.000	8.000	
0088	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	EACH	76.000 11.000	76.000 11.000	
0090	611.0430	Reconstructing Inlets		1.000		
0092	611.0612 611.0624	Inlet Covers Type C Inlet Covers Type H	EACH EACH	4.000	1.000 4.000	
0094 0096	611.1003	Catch Basins 3-FT Diameter	EACH	1.000	1.000	
0098	611.1005	Catch Basins 5-FT Diameter	EACH	1.000	1.000	
0090	011.1005	טמנטון טמאוווא טיין די טומוווכנכו	EAUT	1.000	1.000	

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Line	Item	Item Description	Unit	Total	Qty	
0100	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000	
0102	611.8115	Adjusting Inlet Covers	EACH	12.000	12.000	
0104	614.0400	Adjusting Steel Plate Beam Guard	LF	50.000	50.000	
0106	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6170-00-73	EACH	1.000	1.000	
0108	619.1000	Mobilization	EACH	1.000	1.000	
0110	624.0100	Water	MGAL	22.000	22.000	
0112	625.0100	Topsoil	SY	89.000	89.000	
0114	627.0200	Mulching	SY	42.000	42.000	
0116	628.1504	Silt Fence	LF	100.000	100.000	
0118	628.1520	Silt Fence Maintenance	LF	100.000	100.000	
0120	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0122	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0124	628.2008	Erosion Mat Urban Class I Type B	SY	178.000	178.000	
0126	628.7005	Inlet Protection Type A	EACH	2.000	2.000	
0128	628.7015	Inlet Protection Type C	EACH	9.000	9.000	
0130	628.7555	Culvert Pipe Checks	EACH	14.000	14.000	
0132	628.7570	Rock Bags	EACH	20.000	20.000	
0134	629.0210	Fertilizer Type B	CWT	0.130	0.130	
0136	630.0120	Seeding Mixture No. 20	LB	6.000	6.000	
0138	630.0500	Seed Water	MGAL	5.000	5.000	
0140	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	1.000	1.000	
0142	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	3.000	3.000	
0144	638.2102	Moving Signs Type II	EACH	5.000	5.000	
0146	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0148	642.5201	Field Office Type C	EACH	1.000	1.000	
0150	643.0300	Traffic Control Drums	DAY	12,565.000	12,565.000	
0152	643.0410	Traffic Control Barricades Type II	DAY	60.000	60.000	
0154	643.0420	Traffic Control Barricades Type III	DAY	1,771.000	1,771.000	
0156	643.0705	Traffic Control Warning Lights Type A	DAY	3,602.000	3,602.000	
0158	643.0715	Traffic Control Warning Lights Type C	DAY	825.000	825.000	
0160	643.0900	Traffic Control Signs	DAY	8,410.000	8,410.000	
0162	643.0910	Traffic Control Covering Signs Type I	EACH	1.000	1.000	
0164	643.0920	Traffic Control Covering Signs Type II	EACH	66.000	66.000	
0166	643.1050	Traffic Control Signs PCMS	DAY	71.000	71.000	
0168	643.5000	Traffic Control	EACH	1.000	1.000	
0170	646.1020	Marking Line Epoxy 4-Inch	LF	16,574.000	16,574.000	
0172	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	12,225.000	12,225.000	
0174	646.3020	Marking Line Epoxy 8-Inch	LF	1,050.000	1,050.000	
0176	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	9,155.000	9,155.000	
0178	646.5020	Marking Arrow Epoxy	EACH	4.000	4.000	
0180	646.5120	Marking Word Epoxy	EACH	3.000	3.000	
0182	646.6120	Marking Stop Line Epoxy 18-Inch	LF	16.000	16.000	
0184	646.7120	Marking Diagonal Epoxy 12-Inch	LF	212.000	212.000	
0186	646.8120	Marking Curb Epoxy	LF	139.000	139.000	
0188	646.8220	Marking Island Nose Epoxy	EACH	6.000	6.000	
0190	646.9000	Marking Removal Line 4-Inch	LF	2,090.000	2,090.000	
0192	649.0105	Temporary Marking Line Paint 4-Inch	LF	39,990.000	39,990.000	
0194	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	10,840.000	10,840.000	
0196	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,545.000	1,545.000	

Line	Item	Item Description	Unit	Total	Qty
0198	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	48.000	48.000
0200	650.4000	Construction Staking Storm Sewer	EACH	29.000	29.000
0202	650.5000	Construction Staking Base	LF	149.000	149.000
0204	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	302.000	302.000
0206	650.8000	Construction Staking Resurfacing Reference	LF	10,512.000	10,512.000
0208	650.9000	Construction Staking Curb Ramps	EACH	1.000	1.000
0210	650.9910	Construction Staking Supplemental Control (project) 01. 6170-00-73	LS	1.000	1.000
0212	661.0100	Temporary Traffic Signals for Bridges (structure) 01. West End	LS	1.000	1.000
0214	661.0100	Temporary Traffic Signals for Bridges (structure) 02. East End	LS	1.000	1.000
0216	690.0150	Sawing Asphalt	LF	1,009.000	1,009.000
0218	690.0250	Sawing Concrete	LF	6,122.000	6,122.000
0220	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	500.000	500.000
0222	740.0440	Incentive IRI Ride	DOL	8,840.000	8,840.000
0224	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0226	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0228	SPV.0060	Special 01. Inlet Covers Type H-D	EACH	1.000	1.000
0230	SPV.0060	Special 02. Adjusting Water Main Valve Box	EACH	1.000	1.000
0232	SPV.0060	Special 03. Adjusting Sanitary Manhole Covers	EACH	2.000	2.000
0234	SPV.0090	Special 01. Ditch Restoration	LF	76.000	76.000
0236	SPV.0090	Special 02. Cleaning Storm Sewer	LF	2,205.000	2,205.000

6170-00-73

Γ												REMOVING CON	ICRETE SURFACE PART	TIAL DEPTH	
l	REMOVING CONCRE	TE PAVEMENT				BUTT JOINTS									
l			**			204.0115		de de	4.4.						
l		204.0100	690.0250			REMOVING	204.0105	**	**						204.0109.S
l		REMOVING	SAWING			ASPHALTIC	REMOVING	690.0150	690.0250						REMOVING CONCRET
l	CC	NCRETE PAVEMENT	CONCRETE			SURFACE	PAVEMENT	SAWING	SAWING						SURFACE PARTIAL DEP
	LOCATION	SY	LF			BUTT JOINTS	BUTT JOINTS	ASPHALT	CONCRETE	STA	- STA				SF
	PROJECT 6170-00-73 CATEGORY 0010			STA-STA	LOCATION	SY	SY	LF	LF	PROJECT 6170	0-00-73 CATEG	ORY 0010			
				PROJECT 6170-0	0-73 CATEGORY 0010					118+00	179+25		LANES	STH21	147,000
	CTH CH	168	90	117+59 - 117	+99 BEGIN PROJECT	160		36		179+25	190+00		LANES	STH21	25,800
	CIR CR							21		190+00	194+00	EB	LANE	STH21	6,424
						19				190+00	194+00	WB	LANE	STH21	10,770
	PROJECT 6170-00-73 CAT 0010 TOTALS	168	90			20		22		206+25	210+50	EB	LANES	STH21	10,200
	PROJECT 6170-00-73 CATEGORY 0020				- 4TH AVE N	30		34		206+25	210+50	WB	LANES	STH21	10,200
					- 4TH AVE S	20		23		210+50	221+59		LANES	STH21	48,796
	NB IH 39 OFF RAMP	341	120	222+32 - 222	+72 END PROJECT	187		42		221+59	222+32		LANES	STH21	3,212
										205+39	209+15		MEDIAN CURB PAN	311121	1,504
	DDOLECT 6170 00 72 CAT 0020 TOTALC			PROJECT 6170-0	0-73 CAT 0010 TOTAL	436	0	178	0	203733	203713		WILDIAM COND FAM		1,304
	PROJECT 6170-00-73 CAT 0020 TOTALS	341	120 **		0-73 CATEGORY 0020			_, _		DROIECT 617	0-00-73 CAT 00	10 TOTAL			263,906
	***		ጥጥ	198+00 - 198			145		22		0-00-73 CAT 00 0-00-73 CATEG				203,300
	** SEE SAWING FOR PROJECT TO	TALS							33	FROJECT 0170	0 00-73 CATEG	ON 1 0020			
				198+00 - 198			122		28	104.00	100.00	ED.	CD ON DAMAD IN	ITED CECTION	0.550
				204+60 - 205			170		38	194+00	198+00	EB	SB ON RAMP IN		8,556
				204+60 - 205	+00 EB		165		37	194+00	198+00	WB	SB OFF RAMP IN		5,526
				-						205+00	206+25	EB	NB OFF RAMP IN		3,971
				PROJECT 6170-0	0-73 CAT 0020 TOTALS	6 0	603	0	136	205+00	206+25	WB	NB ON RAMP IN	HERSECTION	3,493
								**	**	193+75	195+44		MEDIAN CURB PAN		676
						** SEE SA	WING FOR PR	OJECT TOTA	ALS						
										PROJECT 6170	0-00-73 CAT 00	ZU IUIAL			22,222
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			DEMOVING A	ASDMAITIC SLIDE	VCE										,
			REMOVING A	ASPHALTIC SURF											,
			REMOVING A	204.01	204.9180.S								STIDEACE MILLING		·
			REMOVING A	204.01 REMOVI	204.9180.S NG REMOVING	**							SURFACE MILLING		·
			REMOVING A	204.01 REMOVI	204.9180.S	** 690.0150							SURFACE MILLING		
			REMOVING A	204.01 REMOVI	204.9180.S NG REMOVING FIC 01. ASPHALTIC								SURFACE MILLING		204.0120
			<u>REMOVING</u> A	204.01: REMOVI ASPHAL	204.9180.S NG REMOVING FIC 01. ASPHALTIC	690.0150							SURFACE MILLING		204.0120 REMOVING
			REMOVING A	204.01: REMOVI ASPHAL	204.9180.S NG REMOVING TIC 01. ASPHALTIC CE SURFACE	690.0150 SAWING							SURFACE MILLING	,	204.0120 REMOVING ASPHALTIC SURFACE
	PROIFCT	6170-00-73 CATEGO	LOCATION	204.01: REMOVI ASPHAL SURFA	204.9180.S NG REMOVING TIC 01. ASPHALTIC E SURFACE FLUMES	690.0150 SAWING ASPHALT	_						SURFACE MILLING	,	204.0120 REMOVING ASPHALTIC SURFACE MILLING
	PROJECT	6170-00-73 CATEGO	LOCATION RY 0010	204.01: REMOVI ASPHAL' SURFAI	LO 204.9180.S NG REMOVING FIC 01. ASPHALTIC CE SURFACE FLUMES SY	690.0150 SAWING ASPHALT LF	-		STA	- STA	REMO		SURFACE MILLING	,	204.0120 REMOVING ASPHALTIC SURFACE
	PROJECT	9	LOCATION RY 0010 SHOULDER - 3RD L/	204.01: REMOVI ASPHAL SURFAI SY	204.9180.S NG REMOVING FIC 01. ASPHALTIC SURFACE FLUMES SY	690.0150 SAWING ASPHALT LF	- -		PROJECT 61	- STA 170-00-73 CATEG	REMO ORY 0010	DVING ASPHALTIC		,	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
	PROJECT	SF	LOCATION RY 0010 SHOULDER - 3RD L/ HOULDER - OLD HW	204.01: REMOVI ASPHAL SURFA SY ANE 293 WY 21 260	204.9180.S NG REMOVING FIC 01. ASPHALTIC SURFACE FLUMES SY	690.0150 SAWING ASPHALT LF 103 126	-		PROJECT 61 118+00	- STA 170-00-73 CATEG 179+25	REMO		RS STH21	,	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
	PROJECT	SF	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A	204.01: REMOVI ASPHAL SURFA SY ANE 293 WY 21 260 AVE 129	LO 204.9180.S NG REMOVING FIC 01. ASPHALTIC E SURFACE FLUMES SY	690.0150 SAWING ASPHALT LF 103 126 166	-		PROJECT 61 118+00 179+25	- STA 170-00-73 CATEG 179+25 190+00	REMO ORY 0010	SHOULDER SHOULDER	RS STH21 RS STH21	,	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628
	PROJECT	SF	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE	204.01: REMOVI ASPHAL SURFAI SY ANE 293 WY 21 260 AVE 129	204.9180.S NG REMOVING FIC 01. ASPHALTIC SE SURFACE FLUMES SY 38	690.0150 SAWING ASPHALT LF 103 126 166 54	-		PROJECT 61 118+00	- STA 170-00-73 CATEG 179+25	REMO ORY 0010	OVING ASPHALTIC	RS STH21 RS STH21	,	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495
	PROJECT	SH	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE CTH CH	204.01: REMOVI ASPHAL SURFA SY ANE 293 WY 21 260 AVE 129 127	LO 204.9180.S NG REMOVING FIC 01. ASPHALTIC E SURFACE FLUMES SY	690.0150 SAWING ASPHALT LF 103 126 166 54 20	<u>-</u>		PROJECT 61 118+00 179+25	- STA 170-00-73 CATEG 179+25 190+00	ORY 0010 A A	SHOULDER SHOULDER	RS STH21 RS STH21 RS STH 21	,	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628
	PROJECT	SH	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE	204.01: REMOVI ASPHAL SURFA SY ANE 293 WY 21 260 AVE 129 127	204.9180.S NG REMOVING FIC 01. ASPHALTIC SE SURFACE FLUMES SY 38	690.0150 SAWING ASPHALT LF 103 126 166 54	-		PROJECT 61 118+00 179+25 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00	ORY 0010 A A EB A	SHOULDER SHOULDER SHOULDER SHOULDER	RS STH21 RS STH21 RS STH 21 STH 21	,	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495
	PROJECT	SH	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE CTH CH	204.01: REMOVI ASPHAL' SURFAI SY ANE 293 WY 21 260 AVE 129 127 LOT 16	LO 204.9180.S NG REMOVING FIC 01. ASPHALTIC CE SURFACE FLUMES SY 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20	-		PROJECT 61 118+00 179+25 190+00 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00	ORY 0010 A A BB A A	SHOULDER SHOULDER SHOULDER SHOULDER MEDIAN	RS STH21 RS STH21 RS STH 21 STH 21 RS STH 21		204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422
	PROJECT	SH	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH	204.01: REMOVI ASPHAL: SURFAI SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108	LO 204.9180.S NG REMOVING FIC 01. ASPHALTIC CE SURFACE FLUMES SY 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30	-		PROJECT 61 118+00 179+25 190+00 190+00 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 194+00	ORY 0010 A A EB A WB A	SHOULDER SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER	RS STH21 RS STH21 RS STH 21 STH 21 RS STH 21		204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522
	PROJECT	SH	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - 0LD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH CTH CH- PARKING I EAST END OF PROJI	204.01: REMOVI ASPHAL: SURFAI SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108	LO 204.9180.S NG REMOVING FIC 01. ASPHALTIC CE SURFACE FLUMES SY 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8	-		PROJECT 61 118+00 179+25 190+00 190+00 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 194+00 210+25	ORY 0010 A A BB A WB A A	SHOULDER SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER	RS STH21 RS STH21 RS STH 21 STH 21 RS STH 21 STH 21	ON.	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62
		SH SH UNDISTRI	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - 0LD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH CTH CH- PARKING I EAST END OF PROJI MADISON ST	204.01: REMOVI ASPHAL SURFAI SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108 93 75	LO 204.9180.S NG REMOVING FIC 01. ASPHALTIC CE SURFACE FLUMES SY 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8 64	-		PROJECT 61 118+00 179+25 190+00 190+00 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 194+00 210+25 3RD LANE	ORY 0010 A A EB A WB A N A	SHOULDER SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER	RS STH21 RS STH21 RS STH 21 STH 21 RS STH 21 STH 21 INTERSECTIO	ON ON	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62 424
	PROJECT	UNDISTRI 6170-00-73 CAT 001 0	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH CTH CH- PARKING I EAST END OF PROJI MADISON ST BUTED 0 TOTALS	204.01: REMOVI ASPHAL SURFAI SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108 93	LO 204.9180.S NG REMOVING FIC 01. ASPHALTIC CE SURFACE FLUMES SY 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8 64	- -		PROJECT 61 118+00 179+25 190+00 190+00 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 210+25 3RD LANE OLD HWY 21	ORY 0010 A A BB A WB A N A S A	SHOULDER SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER	RS STH21 RS STH21 RS STH 21	ON ON ON	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62 424 376
	PROJECT	UNDISTRI 6170-00-73 CAT 001 0 6170-00-73 CATEGO	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - 0LD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH CTH CH- PARKING I EAST END OF PROJI MADISON ST BUTED 0 TOTALS RY 0020	204.01: REMOVI ASPHAL' SURFAI SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108 93 75 1,101	LO 204.9180.S NG REMOVING FIC 01. ASPHALTIC CE SURFACE FLUMES SY 38 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8 64 	- -		PROJECT 61 118+00 179+25 190+00 190+00 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 210+25 3RD LANE OLD HWY 21 4TH AVE	ORY 0010 A A BB A WB A N A S A N A	SHOULDER SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER	RS STH21 RS STH21 RS STH 21 RS STH 2	ON ON ON	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62 424 376 377
	PROJECT	UNDISTRI 6170-00-73 CAT 0010 6170-00-73 CATEGO	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - 0LD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH- PARKING I EAST END OF PROJE MADISON ST BUTED 0 TOTALS RY 0020 NB OFF RAMP ISLA	204.01: REMOVI ASPHAL: SURFAI SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108 93 75 1,101	204.9180.S NG REMOVING FIC 01. ASPHALTIC SURFACE FLUMES SY 38 38 38 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8 64	-		PROJECT 61 118+00 179+25 190+00 190+00 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 210+25 3RD LANE OLD HWY 21 4TH AVE	ORY 0010 A A BB A WB A N A S A N A S A N A S A A A A A A A A	SHOULDER SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER	RS STH21 RS STH21 RS STH 21 RS STH 2	ON ON ON	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62 424 376 377
	PROJECT	UNDISTRI 6170-00-73 CAT 0010 6170-00-73 CATEGO NB	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH- PARKING I EAST END OF PROJI MADISON ST BUTED 0 TOTALS RY 0020 NB OFF RAMP ISLA	204.01: REMOVI ASPHAL SURFAI SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108 93 75 1,101 AND 37 DULDER 37	204.9180.S NG REMOVING FIC 01. ASPHALTIC SURFACE FLUMES SY 38 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8 64 571	-		PROJECT 61 118+00 179+25 190+00 190+00 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 210+25 3RD LANE OLD HWY 21 4TH AVE 4TH AVE	ORY 0010 A BB A WB A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N B B B B B B B B B B B B	SHOULDER SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER	RS STH21 RS STH21 RS STH 21 RS STH 2	ON ON ON	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62 424 376 377 376
	PROJECT	UNDISTRI 6170-00-73 CAT 0010 6170-00-73 CATEGO NB NB	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH- PARKING I EAST END OF PROJI MADISON ST BUTED 0 TOTALS RY 0020 NB OFF RAMP ISLA OFF RAMP RT SHO	204.01: REMOVI ASPHAL SURFAN SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108 93 75 1,101 AND 37 DULDER 37 DULDER 17	204.9180.S NG REMOVING FIC 01. ASPHALTIC SURFACE FLUMES SY 38 38 38 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8 64 	- -		PROJECT 61 118+00 179+25 190+00 190+00 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 210+25 3RD LANE OLD HWY 21 4TH AVE 4TH AVE	ORY 0010 A BB A WB A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N A S A N B B B B B B B B B B B B	SHOULDER SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER	RS STH21 RS STH21 RS STH 21 RS STH 2	ON ON ON	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62 424 376 377 376
	PROJECT	UNDISTRI 6170-00-73 CAT 0010 6170-00-73 CATEGO NB	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH- PARKING I EAST END OF PROJI MADISON ST BUTED 0 TOTALS RY 0020 NB OFF RAMP ISLA OFF RAMP RT SHO	204.01: REMOVI ASPHAL SURFAI SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108 93 75 1,101 AND 37 DULDER 37	204.9180.S NG REMOVING FIC 01. ASPHALTIC SURFACE FLUMES SY 38 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8 64 571	- -		PROJECT 61 118+00 179+25 190+00 190+00 190+00 190+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 210+25 3RD LANE OLD HWY 21 4TH AVE 4TH AVE 4TH AVE	ORY 0010 A A BB A WB A N A S A N A S A N ORY 0020	SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER MEDIAN	RS STH21 RS STH21 RS STH 21 STH 21 STH 21 STH 21 INTERSECTIC INTERSECTIC INTERSECTIC	DN DN DN DN	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62 424 376 377 376 9,765
	PROJECT PROJECT	UNDISTRI 6170-00-73 CAT 0010 6170-00-73 CATEGO NB NB	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH- PARKING I EAST END OF PROJI MADISON ST BUTED O TOTALS RY 0020 NB OFF RAMP IS LA OFF RAMP RT SHO BUTED	204.01: REMOVI ASPHAL SURFAN SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108 93 75 1,101 AND 37 DULDER 37 DULDER 17	204.9180.S NG REMOVING FIC 01. ASPHALTIC SURFACE FLUMES SY 38 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8 64 571	- -		PROJECT 61 118+00 179+25 190+00 190+00 190+00 190+00 PROJECT 61 PROJECT 61	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 210+25 3RD LANE OLD HWY 21 4TH AVE 4TH AVE 170-00-73 CAT 00 170-00-73 CATEG	ORY 0010 A EB A WB A N A S A N A S A N ORY 0020 EB A	SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER MEDIAN	RS STH21 RS STH21 RS STH 21 RS STH 21 RS STH 21 RS STH 21 INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION	DN DN DN DN	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62 424 376 377 376 9,765
	PROJECT PROJECT	UNDISTRI 6170-00-73 CAT 001 (6170-00-73 CATEGO NB NB UNDISTRI	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH- PARKING I EAST END OF PROJI MADISON ST BUTED O TOTALS RY 0020 NB OFF RAMP IS LA OFF RAMP RT SHO BUTED	204.01: REMOVI ASPHAL SURFA SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108 93 75 1,101 AND 37 DULDER 37 DULDER 17 25	204.9180.S NG REMOVING FIC 01. ASPHALTIC SURFACE FLUMES SY 38 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8 64 571 3 6	- -		PROJECT 61 118+00 179+25 190+00 190+00 190+00 190+00 PROJECT 61 PROJECT 61 194+00 194+00	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 210+25 3RD LANE OLD HWY 21 4TH AVE 4TH AVE 4TH AVE 170-00-73 CAT 00 170-00-73 CATEG	ORY 0010 A A BB A WB A N A S A N A S A N A S A A A A B A A A B A A A A A A A A A	SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER MEDIAN SHOULDER MEDIAN	RS STH21 RS STH21 RS STH 21 RS STH 21 RS STH 21 INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION STH 21	ON ON ON ON	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62 424 376 377 376 9,765
	PROJECT PROJECT	UNDISTRI 6170-00-73 CAT 0010 6170-00-73 CATEGO NB NB UNDISTRI 6170-00-73 CAT 0020	LOCATION RY 0010 SHOULDER - 3RD LA HOULDER - OLD HW SHOULDER - 4TH A CHURCH LANE CTH CH CTH CH- PARKING I EAST END OF PROJI MADISON ST BUTED O TOTALS RY 0020 NB OFF RAMP IS LA OFF RAMP RT SHO BUTED	204.01: REMOVI ASPHAL: SURFAN SY ANE 293 WY 21 260 AVE 129 127 LOT 16 JECT 108 93 75 1,101 AND 37 DULDER 37 DULDER 17 25 116	204.9180.S NG REMOVING FIC 01. ASPHALTIC SURFACE FLUMES SY 38 38	690.0150 SAWING ASPHALT LF 103 126 166 54 20 30 8 64 571 3 6 9	- -		PROJECT 61 118+00 179+25 190+00 190+00 190+00 190+00 PROJECT 61 PROJECT 61	- STA 170-00-73 CATEG 179+25 190+00 194+00 194+00 210+25 3RD LANE OLD HWY 21 4TH AVE 4TH AVE 170-00-73 CAT 00 170-00-73 CATEG	ORY 0010 A EB A WB A N A S A N A S A N ORY 0020 EB A	SHOULDER SHOULDER SHOULDER MEDIAN SHOULDER MEDIAN	RS STH21 RS STH21 RS STH 21 RS STH 21 RS STH 21 INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION INTERSECTION STH 21	ON ON ON ON	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY 4,083 2,628 495 422 522 62 424 376 377 376 9,765

PROJECT NO: 6170-00-73 HWY: STH 21 COUNTY:WAUSHARA MISCELLANEOUS QUANTITIES SHEET:

PROJECT 6170-00-73 CAT 0020 TOTAL

	REM	MOVING (CURB AND GUTT	<u>rer</u>												
				204.0150 REMOVING CURB	** 690.025 SAWING							<u>RE</u>	MOVING SIDEWA	<u>ALK</u>		
					CONCRETE									204.0150	n **	
STA STA	- STA	24.0	LOC	LF	LF									REMOVIN	9	
206+25	00-73 CATEGORY 00 206+52		LT	27	30									CONCRET SIDEWAL	TE SAWING	
200:20	209+37	ED.	DT	247	222							LOC		SY	LF	
206+20 210+08	209+37		RT RT	317 142	322 147					PROJE	CT 6170-00	-73 CATEGORY 00:	10			
217+09			H CH SW RADIU		5					СТ	H CH SW			53	10	
221+99	222+32		RT	33	38					PROJE	CT 6170-00	-73 CAT 0010 TOT	ALS	53	10	
211+21	211+60		LT	39	44										**	
	MADISON ST INLET REPAIR			48 176	5 110							** SEE SAWING	FOR PROJECT IC	UTALS		
	UNDISTRIBUTE			100	20											
PROJECT 6170-	00-73 CAT 0010 TOT	ΓALS		938	721											
	00-73 CATEGORY 00										R	EMOVING STORM	SEWER			
205+45	206+25		LT	80	83						<u></u>	204.0245	204.0245	204.0245		
205+47	205+63 IH 39 NB OFF RA		RAMP ISLAND	121 85								REMOVING	REMOVING	REMOVING		
	IN 39 ND OFF KA	HIVIP		65						REMOVAL		STORM SEWER	STORM SEWER	STORM SEWER		
PROJECT 6170-	00-73 CAT 0020 TOT	ΓALS		286	83			STRUCTURE	SIZE	LENGTH		01. 18-INCH	02. 24-INCH	02. 36-INCH		
			VING FOR PROJ	IECT TOTALS	**	STA	LOC	#	IN	FT	DESC	LF	LF	LF		NOTES
					-	PROJECT 6	170-00-73 C	ATEGORY 0010								
													_			
						221+29	LT	120E	24	6	EW		6		REMOVE ENDWALL	
						223+20 222+50	RT RT	122E 121	36 18	76	EW	40			INLET 121 AND PIPE	AND PIPE TO NEW INLET 121
								AT 0010 TOTAL				40	6	76		
						PROJECT 6	170-00-73 C	AT 0010 TOTAL				40	b	70		
		PREF	PARING FOUND	<u>ATION</u>												
				211.0200	211.0400											
				PREPARE	PREPARE											
				FOUNDATION FOR	FOUNDATION FOR	_										
CTA	CTA				F ASPHALTIC SHOULDER	.5										
STA PROJECT 6170-00-	- STA 73 CATEGORY 0010		LOC	LS	STA											
121+00	123+70 LT		BRD LANE		3	_							PR	REP AND FINISH		
129+34	132+50 RT		D HWY 21		4											
179+87	181+06 RT		TH LANE		2										213.0100	
221+60	222+73 LT		AST END		2										FINISHING	
			ISTRIBUTED		2								LOCAT	TION	ROADWAY	
												DDCI	LOCAT ECT 6170-00-73 (EACH	
	73 CAT 0010 TOTALS	S		0	13	_						PROJ	PROJI		1	
PROJECT 6170-00-	73 CATEGORY 0020					_							FROJI		ı	
		NB	OFF RAMP	1	2							PROJ	ECT 6170-00-73 C	CAT 0010 TOTALS	1	
PROJECT 6170-00-	73 CAT 0020 TOTALS	S		1	2	_										
PROJECT NO:	6170-00-73			HWY: STH 21		COUN	ITY:WAU	SHARA		MISCELI	ANEOU	S QUANTITIES	S			SHEET:

				BASE AGGREGATI	E		
					305.0110	305.0120	
					BASE AGG	BASE AGG	
					DENSE	DENSE	624.0100
					3/4-INCH	1 1/4-INCH	WATER
STA	-	STA		LOCATION	TON	TON	MGAL
PROJECT 6170-0	00-73	CATEGORY 00:	10				
117+58	-	179+00	RT/LT	SHOULDERS	1,114		
117+58	-	179+00	RT/LT	SHOULDERS	40		
179+00	-	194+00	RT/LT	SHOULDERS	72		
221+69	-	222+72	LT	SHOULDER	3		
125+3	3 -	125+97	RT	DRIVEWAY	2		
137+7	'1 -	138+17	LT	DRIVEWAY	1		
141+9	0 -	142+20	RT	DRIVEWAY	1		
153+8	3 -	154+21	RT	DRIVEWAY	1		
153+8	37 -	154+25	LT	DRIVEWAY	1		
161+6	iO -	162+01	RT	DRIVEWAY	1		
166+6	i2 -	167+08	LT	DRIVEWAY	1		
				СТН СН		8	
				SIDEWALK	12		
				UNDISTRIBUTED	60	37	21
PROJECT 6170-0	00-73	CAT 0010 TOTA	LS		1309	45	21
PROJECT 6170-0)0-73	CATEGORY 002	20				
		194+75	RT	SHOULDER	2		
194+00	-	1341/3					
194+00 195+75	-	198+39		SHOULDERS	16		
	-		RT/LT	SHOULDERS SHOULDERS	16 2		
195+75		198+39	RT/LT			 5	 1

				*	*	**	**
				416.0610	416.0620	690.0150	690.0250
		390.0303	390.0403	DRILLED	DRILLED	SAWING	SAWING
		BASE PATCHING	BASE PATCHING	TIE	DOWEL	ASPHALT	CONCRETE
	LANE	CONCRETE	CONCRETE SHES	BARS	BARS		
STATION	LOCATION	SY	SY	EACH	EACH	LF	LF
PROJECT 6170-00-73 CATEGORY 0010							
118+13	EB/WB	80			19	60	24
131+39	EB		51	13	19	38	62
131+89	WB		47	12	19	36	60
190+28	EB		43	10	22	30	58
206+39	EB RT		39	11	16		84
213+37	EB		70	35	19		128
218+57	EB		46	23	19		92
220+03	WB	40		10	19		54
220+03	WBTL	33		10	16		50
222+15	WB	42			19	32	51
222+15	EB	43			19		12
222+15	EBTL	35		11	16		51
INLET REPAIRS		39		44			264
UNDISTRIBUTED		20	100				
PROJECT 6170-00-73 CAT 0010 TOTALS	TOTAL	333	396	179	222	196	990
				*	*	**	**

BASE PATCHING CONCRETE

BASE PATCHING ASPHALT

390.0501.S BASE PATCHING FOR ASPHALT HMA INTERLAYER

LOCATION	EACH
PROJECT 6170-00-73 CATEGORY 0010	
PROJECT	0.9
PROJECT 6170-00-73 CAT 0010 TOTAL	0.9
PROJECT 6170-00-73 CATEGORY 0020	
PROJECT	0.1
PROJECT 6170-00-73 CAT 0020 TOTAL	0.1

PROJECT NO: 6170-00-73 HWY: STH 21 COUNTY:WAUSHARA MISCELLANEOUS QUANTITIES SHEET:

^{*} SEE CONCRETE PAVEMENT FOR PROJECT TOTALS

^{**} SEE SAWING FOR PROJECT TOTALS

CONCRETE PAVEMENT

			416.0610	416.0620
		415.0080	DRILLED	DRILLED
		CONCRETE PAVEMENT	TIE	DOWEL
	LANE	8-INCH	BARS	BARS
STATION	LOCATION	SY	EACH	EACH
PROJECT 6170-0	00-73 CATEGORY 0010			
	CECCAID AVE INITE	2	2	
	SECOND AVE INLET	2	_	
	FROM BASE PATCHING		179	222
	FROM CURB AND GUTTER		276	
	UNDISTRIBUTED	5	25	15
PROJECT 6170-0	00-73 CAT 0010 TOTALS	7	482	237
PROJECT 6170-0	00-73 CATEGORY 0020			
	FROM CURB AND GUTTER		27	
205 164		341	29	24
205+64	IH 39 NB OFF RAMP	541	29	24
PROJECT 6170-0	00-73 CAT 0010 TOTALS	341	56	24

HWY: STH 21

COUNTY:WAUSHARA

PROJECT NO: 6170-00-73

				HMA PAVEN	<u>//ENT</u>				\neg
						LOWE	R LAYER		
							460.6225	UPPER LAYER	
						460.4210.S	HMA PAVEMENT	460.6424	
					455.0605	PAVEMENT	5 MT 58-28S	HMA PAVEMEN	гΙ
					TACK COAT	INTERLAYER	(CONTROL STRIP)	4 MT 58-28 H	
STA -	- STA				GAL	TON	TON	TON	
	70-00-73 CATEGO	DRY OO	10		07.12				- ⊦
117+60	118+00	00.	BUTT JOINT	STH21	20			16	- 1
118+00	130+00		EB LANE	STH21	208		92	161	
118+00	130+00			STH21	208			161	
			WB LANE			92			
130+00	179+25		LANES	STH21	1,708	755		1,322	
118+00	179+25		SHOULDERS	STH21	265			411	
179+25	190+00		LANES	STH21	372	165		288	
179+25	190+00		SHOULDERS	STH21	171			264	Ī
190+00	194+00	EB	SB ON RAMP	INTERSECTION	92	41		72	
190+00	194+00	EB	SHOULDERS	INTERSECTION	32			50	
190+00	194+00		MEDIAN	STH 21	27			42	
				· · ·	- <i>·</i>				
190+00	194+00	WB	SB OFF RAMP	INTERSECTION	156	69		120	
190+00		EB			34			53	- [
190+00	194+00	EB	SHOULDERS	INTERSECTION	34			53	
206+25	210+50	EB	LANES	STH21	148	65		114	
206+25	210+50	WB	LANES	STH21	148	65		114	
210+50	221+59		LANES	STH21	704	312		546	
221+59	222+32		LANES	STH21	46	21		36	
221+59	222+32		TAPER	STH21	5			8	
222+32	222+72		BUTT JOINT	STH21	24				
222132	222172		BOTT JOHNT	311121	24				
	3RD LANE	N		INTERSECTION	28				
	OLD HWY 21	S		INTERSECTION	24				
	4TH AVE	N		INTERSECTION	25				
	4TH AVE	S		INTERSECTION	24				
	CTH CH	S		INTERSECTION	16				
205+39	209+15		MEDIAN CURB PAN		22	10		17	
	NB OFF RAMP		RAMP	SHLDR	1			4	
									_
PROJECT 61	70-00-73 CAT 001	LO TOTA	ALS		4,508	1,595	92	3,799	_
PROJECT 61	70-00-73 CATEGO	DRY 002	20						_
194+00	198+00	EB	SB ON RAMP	INTERSECTION	124	55		96	
194+00	198+00	EB	SHOULDERS	INTERSECTION	16			25	
194+00	194+90		MEDIAN	STH 21	3			5	
198+00	198+40	EB	BUTT JOINT	STH21	16	7		12	
130100	130140	LD	DOTT JOHNT	311121	10			12	
194+00	194+00	WB	SB OFF RAMP	INTERSECTION	80	35		62	
194+00	198+00	EB	SHOULDERS	INTERSECTION	21			32	
198+00	198+40	WB	BUTT JOINT	STH21	18	8		13	
204+60	205+00	EB	BUTT JOINT	STH21	20	9		16	
205+00	206+25	EB	NB OFF RAMP	INTERSECTION	58	25		44	
204+60	205+00	WB	BUTT JOINT	STH21	18	8		15	
205+00	206+25	WB	NB ON RAMP	INTERSECTION	50	22		39	- [
193+75	195+44		MEDIAN CURB PAN		10	4		8	
					-				
	NB OFF RAMP		RAMP	SHLDR	1			4	
DDOLECT CA	70 00 72 047 000	10 TOT	ALC.		425	173	^	274	-
PROJECT 61	70-00-73 CAT 002	יו וטוי	ALS		435	173	0	371	
	MISCELLAI	NEOL	JS QUANTITIES				SHEET:		コ

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	ASPHALTIC SU	<u>RFACE</u>					
	465.0105	465.0120	465.0110	465.0315			
	ASPHALTIC SURFACE	ASPHALTIC SURFACE	ASPHALTIC SURFACE	ASPHALTIC			
	DRI	IVEWAYS AND FIELD ENTRANC	PATCHING	FLUMES			
STA - STA LOCATION	TON	TON	TON	SY			
PROJECT 6170-00-73 CATEGORY 0010							
3RD LANE shoulder	51						
OLD HWY 21 shoulder	45						
4TH AVE (S) shoulder	22						
3RD LANEintersection	43						
OLD HWY 21 intersection	38						
4TH AVE (S) intersection	ersection 38						
4TH AVE (N) intersection	37						
CHURCH LANE				43			
COUNTY CH	56						
COUNTY CH PARKING LOT	0	3					
221+59 LT STH 21	19						
MADISON ST	16						
UNDISTRIBUTED	25		20				
PROJECT 6170-00-73 CAT 0010 TOTALS	390	3	20	43			
PROJECT 6170-00-73 CATEGORY 0020							
NB OFF RAMP ISLAND	38						
PROJECT 6170-00-73 CAT 0020 TOTALS	38	0	0	0			

CONCRETE SIDEWALK

		602.0505
	602.0410	CURB RAMP
	CONCRETE	DETECTABLE
	SIDEWALK	WARNING FIELD
	5-INCH	YELLOW
LOCATION	SF	SF
PROJECT 6170-00-73 CATEGORY 0010		
CTH CH SW	475	25
PROJECT 6170-00-73 CAT 0010 TOTALS	475	25

ASPHALTIC CENTER LINE RUMBLE STRIP

465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

	STA	- ST	A FT							
PROJECT 6170-00-73 CATEGORY 0010										
	117+60	177-	+76 5,200							
PROJECT 6170-00-73 CAT 0010 TOTAL 5,200										

CONCRETE CURB AND GUTTER

			<u>C(</u>	DINCRETE CORB AIND C	JO I I LIV		
				601.0409	601.0411		*
				CONCRETE	CONCRETE	601.0600	416.0610
				CURB AND GUTTER	CURB AND GUTTER	CONCRETE CURB	DRILLED
				30-INCH	30-INCH	PEDESTRIAN	TIE
				TYPE A	TYPE D		BARS
STA	- STA		LOC	LF	LF	LF	EACH
PROJECT 61	70-00-73 CA	TEGC	RY 0010				
206+25	206+52	EB	LT	27			9
206+25	209+37	EB	RT	312			104
210+08	211+50	EB	RT	142			47
217+09	217+22	EB	CTH CH SW RADIUS		56	42	
221+99	222+32	EB	RT	33			11
211+21	211+60	WB	LT	39			13
	MADISON S	ST			48		
			INLET ADJUSTMENTS	176			59
	UNDIST		CURB REPAIR	100	25		33
	0110101		COND NEITHIN	100	23		33
PROJECT 617	0-00-73 CAT (0010	TOTALS	829	129	42	276
PROJECT 61	70-00-73 CA	TEGC	PRY 0020				
205+45	206+25	EB	LT	80			27
			RAMP ISLAND	121			
			IH 39 NB OFF RAMP RT	85			
DDOLECT CAT	0-00-73 CAT (2020	TOTALS	286	0	0	27

* SEE CONCRETE PAVEMENT FOR PROJECT TOTALS

PROJECT NO: 6170-00-73 HWY: STH 21 COUNTY:WAUSHARA MISCELLANEOUS QUANTITIES SHEET:

	520.8000	522.1024 APRON ENDWALLS FOR CULVERT	522.1036 APRON ENDWALLS FOR CULVERT	524.0630 APRON ENDWALLS FOR CULVERT	608.0318 STORM SEWER PIPE REINFORCED	608.0336 STORM SEWER PIPE	611.0430	611.0612	611.0624	611.1003	611.1005	611.8110	611.8115	650.4000	SPV.0060.01	SPV.0090.02
	CONCRETE COLLARS FOR	REINFORCED CONCRETE	REINFORCED CONCRETE	PIPE SALVAGED 30-	CONCRETE CLASS III 18-	CONCRETE CLASS III 36-	RECONSTRUCTING	INLET COVERS	COVERS	CATCH BASIN 3-FT		MANHOLE	INLET	CONSTRUCTION STAKING	COVERS TYPE	
STRUCTURE #	PIPE EACH	24-INCH EACH	36-INCH EACH	INCH EACH	INCH LF	INCH LF	INLETS EACH	TYPE C EACH	TYPE H EACH	DIAMETER EACH	DIAMETER	COVERS	COVERS EACH	STORM SEWER EACH	H-D EACH	STORM SEWER
PROJECT 6170-00-73 CATEGORY 0010	27 (611	L/ (C/)	2,1011	27 (61)			271011	L/ (C/)	271011	27.011			Littori	27.077	271011	
101							1		1					1		40
101A							1							1		25
102							1							1		55
102													1	1		10
103 103A													1	1		
104							1							1		35
							1							1		80 60
105							1						1	1		60 oc
106														1		85
107													1	1		64
108							1		1					1		76
108A							1							1	1	44
108F					8			1		1				1		
109							1							1		95
110							1		1					1		200
111													1	1		86
112													1	1		44
113													1	1		48
114													1	1		181
115																207
116													1	1		38
117													1	1		112
118							1							1		44
118A													1	1		115
119	1					4	1							1		110
120													1	1		65
120E	1	1												1		54
121A						72			1		1			1		
122E			1											1		
PROJECT 6170-00-73 CAT 0010 TOTALS	2	1	1	0	8	76	11	1	4	1	1	0	12	27	1	1973
PROJECT 6170-00-73 CATEGORY 0020	-	<u>–</u>			-	-	-		-			-				
301																15
302																66
302E																
400N	1			1										1		60
4005																
401A																6
402A																25
402A 403A												1		1		60
7030																
PROJECT 6170-00-73 CAT 0020 TOTALS	1	0	0	1	0	0	0	0	0	0	0	1	0	2	0	232

				Ta	
PROJECT NO: 6170-00-73	HWY: STH 21	ICOUNTY:WAUSHARA	I MISCELLANEOUS QUANTITIES	ISHFFT. I	
11100201110.0170	11001.011121	0001111.007.00117.117.1	111100000 407 1111100	O11LL1.	
	I			1	

				SALVAGED TOP	SOIL, EROSION	MAT. FERTILI	ZER. AND SEE	DING						
	BEAM GUARD								628.2008					
							630.0120		E MAT					
	614.0400					629.0210	SEEDING		URBAN	630.0500				
					625.0100	FERTILIZER	MIXTURE	627.0200	CLASS I	SEED		SILT	FENCE	
	ADJUSTING													
	STEEL PLATE				TOPSOIL	TYPE B	NO. 20	MULCHING	TYPE B	WATER				628.1520
	BEAM		STA	LOC	SY	CWT	LB	SY	SY	MGAL			628.1504	SILT
	GUARD		PROJECT 6170-00-7	73 CATEGORY 0010									SILT	FENCE
	STA - STA LOC LF		217+09	RT	10	0.01	0	10					FENCE	MAINT
	PROJECT 6170-00-73 CATEGORY 0020		222+40	RT	30	0.02	1	30						
	198+00 - 198+50 RT 50		223+00	RT	45	0.03	1		45				FT	FT
	150.00 150.50 Ki		UNDISTRIBUTED		4			2	2	2	PROJECT 6170-0	0-73 CATEGORY 0010)	
	DD015CT C470 00 73 C4T 0030 T0T41		011210111120122		-			-	_	_				
	PROJECT 6170-00-73 CAT 0020 TOTAL 50.0		DD 015 CT C4 70 00 1	2 647 6040 707416		0.05		42	47		UNDISTRU	JBUTED	100	100
				73 CAT 0010 TOTALS		0.05	2	42	47	2	PROJECT 6170-0	0-73 CAT 0010 TOTAL	S 100	100
			PROJECT 6170-00-7	73 CATEGORY 0020										
			195+00	RT		0.02	1		30					
			202+60	RT		0.03	1		40					
			202+25	LT		0.02	1		30					
			204+68	RT		0.02	1		25					
			UNDISTRIBUTED						6	3				
			2.12.0.1.100120						J	3				
			DD 0 IF 07 04 70 00						454					
			PROJECT 6170-00-7	73 CAT 0020 TOTALS	0	0.08	4	0	131	3		DITCH RE	<u>ESTORATION</u>	
												<u> </u>	<u></u>	SPV.0090.01
														DITCH
	CULVERT PIPE CHECKS				IN	LET PROTECTIO)N							RESTORATION
					11.5	<u> </u>	<u></u>							LF
		628.7555									STATION		LOCATION	
		CULVERT				caa =		0.7005	620 7045		PROJECT 6170-0	00-73 CATEGORY 001	0	
		PIPE				628.7		8.7005	628.7015		223+20	RT	ENDWALL 122E	30
		CHECKS				ROC		ROTECTION II		TION				
_	LOCATION	EACH				BAG	S کو	YPE A	TYPE C		DPOIECT 6170	00-73 CAT 0010 TOTAL	C	30
_	ROJECT 6170-00-73 CATEGORY 0010		STA	- STA	LO	C EAC	.H	EACH	EACH					30
	NDWALL 120E	2	PROJECT 617	0-00-73 CATEGORY	0010							00-73 CATEGORY 002		
L	DRIVE EAST OF 122E	4		108	CHURC	CH ST	_	1	1		195+17	RT	ENDWALL 201E	15
	UNDISTRIBUTED	4		108F	CHURC				1		204+69	RT	ENDWALL 400S	10
									1		202+25	LT	ENDWALL 501E	6
_				116	СТН		•		1		201+97	RT	ENDWALL 502E	15
_	PROJECT 6170-00-73 CAT 0010 TOTALS	10		121A	MADISO	AN CT							2.12 117.122 3022	-5
F	PROJECT 6170-00-73 CAT 0010 TOTALS PROJECT 6170-00-73 CATEGORY 0020				IVIADIS	ON ST		1	1					
Р	PROJECT 6170-00-73 CAT 0010 TOTALS PROJECT 6170-00-73 CATEGORY 0020	4			IVIADIS	ON ST	-	1	1		PROJECT (170	20. 72. CAT 0020 TOTAL	<u> </u>	46
P E	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4	UN	IDISTRUBUTED	IVIADIO	20		1	5		PROJECT 6170-0	00-73 CAT 0020 TOTAL	.s	46
P E	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N			IDISTRUBUTED		20)		5 9		PROJECT 6170-0	00-73 CAT 0020 TOTAL	.s	46
P E	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4)		5 9		PROJECT 6170-0	00-73 CAT 0020 TOTAL	.s	46
PF EN	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED		20)		5 9		PROJECT 6170-0	00-73 CAT 0020 TOTAL	.s	46
PI EI	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED		20)		5 9		PROJECT 6170-0	00-73 CAT 0020 TOTAL	l.s	46
P E	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED		20)		5 9		PROJECT 6170-0			46
PI EI	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED		20)		5 9		PROJECT 6170-0		OFFICE	46
PI EI	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED	OTALS	20))		5 9		PROJECT 6170-0		OFFICE	
PI EI	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED	OTALS	20 20))		5 9		PROJECT 6170-0		OFFICE 642.520	01
PI EI	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED	OTALS	20 20))	2			PROJECT 6170-0		OFFICE 642.520 FIELD	01)
PR EN	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 RDWALL 400N	4		IDISTRUBUTED	OTALS	20 20 Ation Erosion	O N CONTROL	2 628.193	10		PROJECT 6170-0		OFFICE 642.520 FIELD OFFIC	01) CE
PF EN	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED	OTALS	20 20 ATION EROSION	O N CONTROL 628.1905	628.191 MOBILIZA	LO TION			FIELD (OFFICE 642.520 FIELD OFFIC TYPE (01) CE C
PI EI	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED	OTALS	20 20 ATION EROSION	O CONTROL 628.1905 OBILIZATION	628.193 MOBILIZA EMERGEI	LO TION NCY		L(FIELD (OFFICE 642.520 FIELD OFFIC TYPE (EACH	01) CE C
PF EN	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED	OTALS	20 20 ATION EROSION	O CONTROL 628.1905 OBILIZATION EROSION	628.191 MOBILIZA EMERGEI EROSIO	LO TION NCY DN		L(FIELD (OFFICE 642.520 FIELD OFFIC TYPE (EACH	01) CE C
PI EI	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED	OTALS	20 20 ATION EROSION	O CONTROL 628.1905 OBILIZATION	628.193 MOBILIZA EMERGEI	LO TION NCY DN		LC PROJECT 6170-C	FIELD O DCATION 0-73 CATEGORY 0010	OFFICE 642.520 FIELD OFFIC TYPE (EACH	01) CE C
PI EI	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED 0-00-73 CAT 0010 TO	OTALS	20 20 ATION EROSION	O CONTROL 628.1905 OBILIZATION EROSION CONTROL	628.191 MOBILIZA EMERGEI EROSIO CONTRO	10 TION NCY DN		LC PROJECT 6170-C	FIELD (DCATION 0-73 CATEGORY 0010 PROJECT	OFFICE 642.520 FIELD OFFIC TYPE 0 EACH	01) CE C
P E	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		IDISTRUBUTED 0-00-73 CAT 0010 TO	OTALS MOBILIZA CATION	20 20 ATION EROSION	O CONTROL 628.1905 OBILIZATION EROSION	628.191 MOBILIZA EMERGEI EROSIO	10 TION NCY DN		LC PROJECT 6170-C	FIELD O DCATION 0-73 CATEGORY 0010	OFFICE 642.520 FIELD OFFIC TYPE 0 EACH	01) CE C
P E	ROJECT 6170-00-73 CAT 0010 TOTALS ROJECT 6170-00-73 CATEGORY 0020 NDWALL 400N	4		LOC PROJECT 6170-00-	MOBILIZA CATION 73 CATEGORY	20 20 ATION EROSION	O CONTROL 628.1905 OBILIZATION EROSION CONTROL EACH	628.193 MOBILIZA EMERGEI EROSIC CONTRO	10 TION NCY DN		PROJECT 6170-0	DCATION 0-73 CATEGORY 0010 PROJECT 0-73 CAT 0010 TOTAL	OFFICE 642.520 FIELD OFFIC TYPE 0 EACH	01) CE C
I	PROJECT 6170-00-73 CAT 0010 TOTALS PROJECT 6170-00-73 CATEGORY 0020 ENDWALL 400N	4		LOC PROJECT 6170-00-	OTALS MOBILIZA CATION	20 20 ATION EROSION	O CONTROL 628.1905 OBILIZATION EROSION CONTROL	628.191 MOBILIZA EMERGEI EROSIO CONTRO	10 TION NCY DN		PROJECT 6170-0	FIELD (DCATION 0-73 CATEGORY 0010 PROJECT	OFFICE 642.520 FIELD OFFIC TYPE 0 EACH	01) CE C
I	PROJECT 6170-00-73 CAT 0010 TOTALS PROJECT 6170-00-73 CATEGORY 0020 ENDWALL 400N PROJECT 6170-00-73 CAT 0020 TOTALS	4		LOC PROJECT 6170-00-7	CATION 73 CATEGORY	20 20 ATION EROSION MO 0010	O CONTROL 628.1905 OBILIZATION EROSION CONTROL EACH	628.191 MOBILIZA EMERGEI EROSIC CONTRO EACH	10 TION NCY DN		PROJECT 6170-0	DCATION 0-73 CATEGORY 0010 PROJECT 0-73 CAT 0010 TOTAL	OFFICE 642.520 FIELD OFFIC TYPE 0 EACH	01) CE C
P	PROJECT 6170-00-73 CAT 0010 TOTALS PROJECT 6170-00-73 CATEGORY 0020 ENDWALL 400N	4		LOC PROJECT 6170-00-	CATION 73 CATEGORY	20 20 ATION EROSION MO 0010	O CONTROL 628.1905 OBILIZATION EROSION CONTROL EACH	628.193 MOBILIZA EMERGEI EROSIC CONTRO	10 TION NCY DN		PROJECT 6170-0	DCATION 0-73 CATEGORY 0010 PROJECT 0-73 CAT 0010 TOTAL	OFFICE 642.520 FIELD OFFIC TYPE 0 EACH	01) CE C
P E	PROJECT 6170-00-73 CAT 0010 TOTALS PROJECT 6170-00-73 CATEGORY 0020 ENDWALL 400N	4		LOC PROJECT 6170-00-7	CATION 73 CATEGORY	20 20 ATION EROSION MO 0010	O CONTROL 628.1905 OBILIZATION EROSION CONTROL EACH	628.191 MOBILIZA EMERGEI EROSIC CONTRO EACH	10 TION NCY DN		PROJECT 6170-0	DCATION 0-73 CATEGORY 0010 PROJECT 0-73 CAT 0010 TOTAL	OFFICE 642.520 FIELD OFFIC TYPE 0 EACH	01) CE C
PEP	PROJECT 6170-00-73 CAT 0010 TOTALS PROJECT 6170-00-73 CATEGORY 0020 ENDWALL 400N	4	PROJECT 617	LOC PROJECT 6170-00-7	CATION 73 CATEGORY	ATION EROSION MO 0010	O CONTROL 628.1905 OBILIZATION EROSION CONTROL EACH	628.193 MOBILIZA EMERGEI EROSIC CONTRO EACH	IO TION NCY DN DL	QUANTITIES	PROJECT 6170-0 PROJECT 6170-0	DCATION 0-73 CATEGORY 0010 PROJECT 0-73 CAT 0010 TOTAL	OFFICE 642.520 FIELD OFFIC TYPE 0 EACH	01 D CE C

SHEET:

PROJECT NO: 6170-00-73

PAVEMENT MARKING

PROJECT 6170-00-73 CAT 0010 TOTALS			1,050	4	3	16	212	6	139
		NB 139 OFF RAMP	80			16			
219+95	- 222+32	STH 21	154	2	1				
205+75	- 211+41	STH 21	398	2	2		18	2	64
203+13	- 204+53	STH 21	140					1	10
196+15	- 197+49	STH 21	133					1	10
190+00	- 195+44	STH 21	145				194	2	55
PROJECT 61	170-00-73 CAT	EGORY 0010							
STATION	- STATION	LOCATION	LF	EACH	EACH	LF	LF	EACH	LF
							MED ISLAND	MED ISLAND	
			(WHITE)	(WHITE)	(WHITE)	(WHITE)	(YELLOW)	(YELLOW)	
			EPOXY 8-INCH	EPOXY	EPOXY	EPOXY 18-INCH	EPOXY 12-INCH	NOSE EPOXY	EPOXY
			LINE	ARROW	WORD	STOP LINE	DIAGONAL	ISLAND	CURB
			MARKING	MARKING	MARKING	MARKING	MARKING	MARKING	MARKING
			646.3020	646.5020	646.5120	646.6120	646.7120	646.8220	646.8120

TYPE II SIGNING

							638.3000
				634.0612	634.0614	638.2102	REMOVING
				POSTS WOOD	POSTS WOOD	MOVING	SMALL
				4X6 INCH	4X6 INCH	SIGNS	SIGN
		SIGN		12 FT	14 FT	TYPE II	SUPPORTS
SIG	iN#	CODE	MESSAGE	EACH	EACH	EACH	EACH
PROJE	CT 6170-0	00-73 CATEGORY	0010				
04	05	R1-1	STOP (MADISON ST)		1	1	1
PROJE	CT 6170-0	00-73 CAT 0010 TO	\TOT \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ALS 0	1	1	1
		00-73 CATEGORY		11.5	-	-	-
111032		75 GAILGOIN	0020				
04 -	- 01	W12-1D	DOUBLE DOWN ARROW	1		1	1
04 -	- 02	R1-1	STOP (NB OFF RAMP)		1	1	1
04	03	R6-2-L	ONE WAY (SHARES POST WITH STO	P)		1	
04	04	R5-1	DO NOT ENTER		1	1	1
PROJE	CT 6170-0	00-73 CAT 0020 TO	TOT,	ALS 1	2	4	3

HWY: STH 21

COUNTY:WAUSHARA

MISCELLANEOUS QUANTITIES

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- 1
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	<u> </u>	AVENIENT MARKING					
		646.1040			646.4520		
		MARKING			MARKING	649.0105	649.0120
		LINE	646	5.1020	LINE	TEMOPORARY	TEMPORAR
		GROOVED WET	MARKI	NG LINE	SAME DAY	MARKING	MARKING
		REFLECTIVE EPOXY	EF	YXOY	EPOXY	LINE PAINT	LINE EPOXY
	LOCATION	4-INCH	4-1	NCH	4-INCH	4-INCH	4-INCH
		(WHITE)	(WHITE)	(YELLOW)	(YELLOW)	(YELLOW)	(YELLOW)
		EDGE	,	CEN LINE	CEN LINE	CEN LINE	CEN LINE
STATION - STATION		LF	LF	LF	LF	LF	LF
PROJECT 6170-00-73 CATEGO	RY 0010						
115+60 - 121+43	STH 21	1,166		1,170		2,340	1,170
121+43 - 122+57	STH 21	114		230		460	230
122+57 - 123+88	STH 21	164		260		520	260
123+88 - 129+51	STH 21	1,126		1,130		2,260	1,130
129+51 - 130+46	STH 21	119		190		380	190
130+46 - 131+51	STH 21	105		210		420	210
131+51 - 147+00	STH 21	3,098		3,100		6,200	3,100
147+00 - 157+97	STH 21						
		2,194		1,370		2,740	1,370
157+97 - 158+97	STH 21	200		25		50	25
158+97 - 167+00	STH 21	1,606		1,005		2,010	1,005
167+00 - 177+76	STH 21	2,152		2,150		4,300	2,150
177+76 - 178+97	STH 21	151			240	480	
178+97 - 179+27	STH 21	30			60	120	
179+27 - 180+26	STH 21				200	400	
180+26 - 180+38	STH 21		12		20	40	
180+38 - 181+47	STH 21		136		220	440	
181+47 - 190+00	STH 21		1,706		1,710	3,420	
190+00 - 193+80	EB STH 21		380		760	1,520	
190+00 - 193+80	WB STH 21		380		760	1,520	
193+80 - 194+48	STH 21		136		70	140	
194+48 - 195+18	STH 21		70		70	140	
195+18 - 195+44	STH 21				25	50	
195+44 - 195+53	STH 21						
195+53 - 195+98	STH 21		45				
195+98 - 196+23	STH 21		50				
196+23 - 204+45	STH 21		1,644		1,640	3,280	
204+45 - 204+87	STH 21		84				
204+87 - 205+29	STH 21		42				
205+29 - 205+75	STH 21						
205+75 - 209+16	STH 21		85				
209+16 210+47	EB STH 21		33		260	520	
209+16 210+47	WB STH 21		33		260	520 520	
210+47 211+41	STH 21		24 494		190	380	
211+41 - 221+09	STH 21		484		1,940	3,880	
221+09 - 221+69	STH 21		15		120	240	
221+69 - 224+72	STH 21		303		610	1,220	
IH 39 NB OFF RAMP	STH 21		72				
				10.7.7		•• • • • • • • • • • • • • • • • • • • •	
PROJECT 6170-00-73 CAT 0010	TOTALS	12,225	5,734	10,840	9,155	39,990	10,840
			16	5,574			

PAVEMENT MARKING

PROJECT NO: 6170-00-73 HWY: STH 21 COUNTY:WAUSHARA MISCELLANEOUS QUANTITIES SHEET:

TRAFFIC CONTROL

	DURATION	643.0 TRAF CONT DRU	FIC TROL IMS	TRAI CON BARRI TYP	TROL CADES	TRA CON BARRI TYP	TROL CADES	TRA CON WAR LIG	0705 FFIC TROL NING HTS PE A	TRAI CON' WAR LIG	TROL NING HTS PE C	643.0 TRAF CONT SIG	FIC ROL NS	COVER	:3.0910 :ING SIGN :YPE I		COVER	YPE II		TRAFFIC PC	.1050 CONTROL CMS	643.5000 TRAFFIC CONTROL
STAGE	DAYS	# REQ'D	DAYS	# REQ'D	DAYS	# REQ'D	DAYS	# REQ'D	DAYS	# REQ'D	DAYS	# REQ'D	DAYS	CYCLES	# E/	ACH	CYCLES	#	EACH	# REQ'D	DAYS	EACH
PROJECT 6170-00-73 CATEGORY 0010																						
PROJECT 6170-00-73																						1
OSOW SIGNING	90											20	1800									
STAGE 1 AB ADVANCE SIGNING	30											20	600									
STAGE 1A	15	150	2250	2	30	17	255	36	540	20	300	34	510				1	5	5			
STAGE 1B	15	140	2100	2	30	15	225	32	480	5	75	32	480									
STAGE 1 CD ADVANCE SIGNING	30											19	570									
STAGE 1C	15	110	1650			18	270	36	540	10	150	32	480									
STAGE 1D	15	115	1725			19	285	38	570	10	150	30	450									
STAGE 1 CD RAMP CLOSURE	30	15	450			4	120	8	240			8	240	1	1	1	1	1	1	1	7	
STAGE 1 CD RAMP DETOUR	30											22	660									
STAGE 2 ADVANCE SIGNING	30											20	600									
STAGE 2 - LANE CONFIGURATION	30	105	3150			10	300	20	600	5	150	24	720									
STAGE 2 RAMP MOVEMENTS -TO IH 39	32	10	320			4	128	8	256			23	736				14	3	42	1	32	
STAGE 2 RAMP MOVEMENTS -FROM IH 39	32	10	320			4	128	8	256			12	384				18	1	18	1	32	
STAGE 2 UNDISTRIBUTED-SHIFTS ETC	30	20	600			2	60	4	120			6	180									
PROJECT 6170-00-73 CAT 0010 TOTALS			12,565		60		1,771		3,602		825		8,410			1			66		71	1

PAVEMENT MARKING (TRAFFIC CONTROL)

646.9000

649.0150
TEMPORARY

MARKING

649.0850

TEMPORARY

				-
		MARKING	LINE	MARKING
		REMOVAL	REMOVABLE TAPE	STOP LINE
		LINE	4-INCH	REMOVABLE TAPE
		4-INCH	(WHITE)	18-INCH
STAGE	LOCATION	LF	LF	LF
PROJECT 617	0-00-73 CATEGORY 0010			
1A	WEST TEMP SIG	960	250	24
1B	WEST TEMP SIG		250	
1CD	NB OFF RAMP		200	
1C	EAST TEMP SIG	1,130	470	24
1D	EAST TEMP SIG		375	
PROJECT 617	0-00-73 CAT 0010 TOTALS	2,090	1,545	48

TEMPORARY TRAFFIC SIGNAL

	661.0100	661.0100
	TEMP TRAFFIC	TEMP TRAFFIC
	SIGNAL	SIGNAL
	FOR BRIDGES	FOR BRIDGES
	01. WEST END	02. EAST END
STAGE	LS	LS
PROJECT 6170-00-73 CATEGORY 0010		
STAGES 1AB	1	
STAGES 1CD		1
PROJECT 6170-00-73 CAT 0010 TOTAL	1	1

PROJECT NO. 6170-00-73 HWY. 51H 21 COUNTY. WAUSHARA MISCELLANEOUS QUANTITIES SHEET.		HWY: STH 21	COUNTY:WAUSHARA	MISCELLANEOUS QUANTITIES	SHEET:
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CONSTRUCTION STAKING

				650.5500	650.8000	650.9000	650.9910
			650.5000	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION
			CONSTRUCTION	STAKING	STAKING	STAKING	STAKING
			STAKING	CURB AND GUTTER	RESURFACING	CURB RAMPS	SUPPLIMENTAL
			BASE		REFERENCE		CONTROL PROJECT
STA	- STA	LOCATION	LF	LF	LF	EACH	LS
PROJECT 6170-0	00-73 CATEGOR	Y 0010					
PRO.	JECT	STH 21					1
117+60	- 222+72	STH 21			10,512	1	
		CTH CH	44	56			
		MADISON ST	20	40			
PROJECT 6170-0	00-73 CAT 0010	TOTALS	64	96	10,512	1	1
PROJECT 6170-0	00-73 CATEGOR	Y 0020					
		IH 39 NB OFF RAMP	85	206			
PROJECT 6170-0	00-73 CAT 0020	TOTALS	85	206	0	0	0

ADJUSTING LOCAL UTILITY

	SPV.0060.02	SPV.0060.03
	ADJUSTING WATER	ADJUSTING SANITARY
	MAIN VALVE BOX	MANHOLE COVERS
STATION	EACH	EACH
PROJECT 6170-00-73 CATEGORY 0030		
217+75 RT	1	
218+50 RT		1
220+00 LT		1
PROJECT 6170-00-73 CAT 0030 TOTALS	1	2

SAWING

	690.0150	690.0250
	SAWING	SAWING
	ASPHALT	CONCRETE
LOCATION	LF	LF
PROJECT 6170-00-73 CATEGORY 0010		
ADJACENT TO OUTSIDE CURB EB		1,700
ADJACENT TO OUTSIDE CURB WB		1,682
FROM BUTT JOINTS	178	
FROM REMOVING ASPHALT SURFACE	571	
FROM BASE PATCHING	196	990
FROM REMOVING CONCRETE PAVEMENT		90
FROM REMOVING C&G		721
FROM REMOVING SIDEWALK		10
UNDISTRIBUTED	50	260
PROJECT 6170-00-73 CAT 0010 TOTALS	995	5453
PROJECT 6170-00-73 CAT 0010 TOTALS	995	5453
PROJECT 6170-00-73 CAT 0010 TOTALS	995	5453
PROJECT 6170-00-73 CAT 0010 TOTALS PROJECT 6170-00-73 CATEGORY 0020	995	5453
	995	5453
	995	136
PROJECT 6170-00-73 CATEGORY 0020	995 	
PROJECT 6170-00-73 CATEGORY 0020 ADJACENT TO SB ON RAMP	995 	136
PROJECT 6170-00-73 CATEGORY 0020 ADJACENT TO SB ON RAMP ADJACENT TO SB OFF RAMP	 9	136 159
PROJECT 6170-00-73 CATEGORY 0020 ADJACENT TO SB ON RAMP ADJACENT TO SB OFF RAMP FROM BUTT JOINTS		136 159 136
PROJECT 6170-00-73 CATEGORY 0020 ADJACENT TO SB ON RAMP ADJACENT TO SB OFF RAMP FROM BUTT JOINTS FROM REMOVING ASPHALT SURFACE	 9	136 159 136
PROJECT 6170-00-73 CATEGORY 0020 ADJACENT TO SB ON RAMP ADJACENT TO SB OFF RAMP FROM BUTT JOINTS FROM REMOVING ASPHALT SURFACE FROM REMOVING CONCRETE PAVEMENT	 9	136 159 136 120
PROJECT 6170-00-73 CATEGORY 0020 ADJACENT TO SB ON RAMP ADJACENT TO SB OFF RAMP FROM BUTT JOINTS FROM REMOVING ASPHALT SURFACE FROM REMOVING CONCRETE PAVEMENT FROM REMOVING C&G	 9 	136 159 136 120 83
PROJECT 6170-00-73 CATEGORY 0020 ADJACENT TO SB ON RAMP ADJACENT TO SB OFF RAMP FROM BUTT JOINTS FROM REMOVING ASPHALT SURFACE FROM REMOVING CONCRETE PAVEMENT FROM REMOVING C&G	 9 	136 159 136 120 83

PROJECT NO: 6170-00-73	HWY: STH 21	COUNTY:WAUSHARA	MISCELLANEOUS QUANTITIES	SHEET:	
				l l	

CONVENTIONAL SYMBOLS

R/W MONUMENT SECTION LINE CORNER OUARTER LINE NON-MONUMENTED ⊗ SYMBOL SIXTEENTH LINE SECTION NEW REFERENCE LINE CORNER MONUMENT NEW R/W LINE GEODETIC SURVEY MONUMENT EXISTING R/W OR HE LINE SIXTEENTH CORNER MONUMENT PROPERTY LINE OFF-PREMISE LOT, TIE & OTHER SIGN MINOR LINES SLOPE INTERCEPT COMPENSABLE NON-COMPENSABL ELECTRIC POLE ///////// CORPORATE LIMITS TELEPHONE POLE UNDERGROUND FACILITY PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.) NEW R/W (FEE OR HE) LIGHT POLE FIRE HYDRANT TEMPORARY LIMITED WATER VALVE FASEMENT AREA EASEMENT AREA ACCESS RESTRICTED BY ACQUISITION (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT) NO ACCESS (BY STATUTORY AUTHORITY) 000000000 ACCESS RESTRICTED (BY PREVIOUS ******* $-\boxtimes$ TRANSMISSION STRUCTURES BUILDING TO BE REMOVED **** NO ACCESS (NEW HIGHWAY) PARCEL NUMBER (25) PARALLEL OFFSETS (* * * *) EXISTING MONUMENT NUMBER

R/W BOUNDARY POINT NUMBER

CONVENTIONAL ABBREVIATIONS ACCESS RIGHTS POINT OF COMPOUND CURVE PCC POINT OF INTERSECTION ΡI ACRES PROPERTY LINE AHEAD RECORDED AS ALUMINUM (100') ALUM AND OTHERS REFERENCE LINE R/L BACK REMAINING REM RIGHT CERTIFIED SURVEY MAP SECTION SEC CONCRETE CONC SEPTIC VENT SEPV COUNTY SQUARE FEET COUNTY TRUNK HIGHWAY CTH STATE TRUNK HIGHWAY STH DISTANCE DIST STATION STA CORNER COR SUBDIVISION SUBD DOCUMENT NUMBER DOC TANGENT TAN TELEPHONE PEDESTAL FASEMENT EASE TP FXISTING FΧ TEMPORARY I IMITED TLE FASEMENT GAS VALVE GV TRANSPORTATION PROJECT GRID NORTH GN HIGHWAY EASEMENT HF PI AT UNITED STATES HIGHWAY IDENTIFICATION ID LAND CONTRACT VOLUME MON CURVE DATA NATIONAL GEODETIC SURVEY NGS

LONG CHORD

TANGENT

POF

OUTLOT

POINT OF TANGENCY

PERMANENT LIMITED

POINT OF BEGINNING

POINT OF CURVATURE

EASEMENT

LONG CHORD BEARING

DEGREE OF CURVE

LENGTH OF CURVE

DIRECTION AHEAD

DIRECTION BACK

CONVENTIONAL UTILITY SYMBOLS WATER GAS TELEPHONE TRANSMISSION LINES

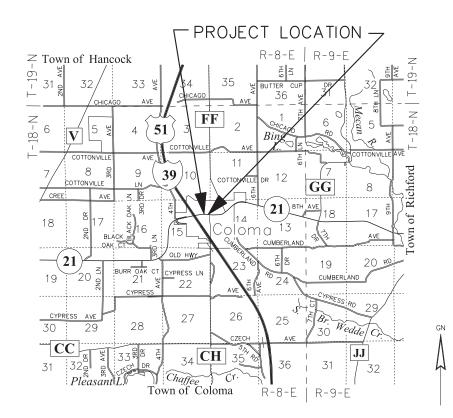
-----SAN-----

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** TRANSPORTATION PROJECT PLAT TITLE SHEET PROJECT NO. 6170-00-23

VILLAGE OF COLOMA

3RD LANE TO MADISON STREET

S.T.H. "21" **WAUSHARA COUNTY**



LAYOUT

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 6170-00-23.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), WAUSHARA COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY CAPPED 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN NC REGION, WI.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TRANSPORTATION PROJECT PLAT DETAIL SHEETS.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE TRANSPORTATION PROJECT PLAT DETAIL SHEETS.

> PROJECT NUMBER 6170-00-23 - 4. 01 SHEET 2 OF 2 AMENDMENT NO

2/3/2021

S:\DESIGN\DESIGN PROJECTS\NC REGION PROJECTS\WOR-6170-00-03 (STH 21)\SURVEY\C3D\TPP STH21 6170-00-03 C3D2018.DWG LAYOUT NAME: TPP Title Sheet

CENTRAL ANGLE OR DELTA

LC LCB

ELECTRIC

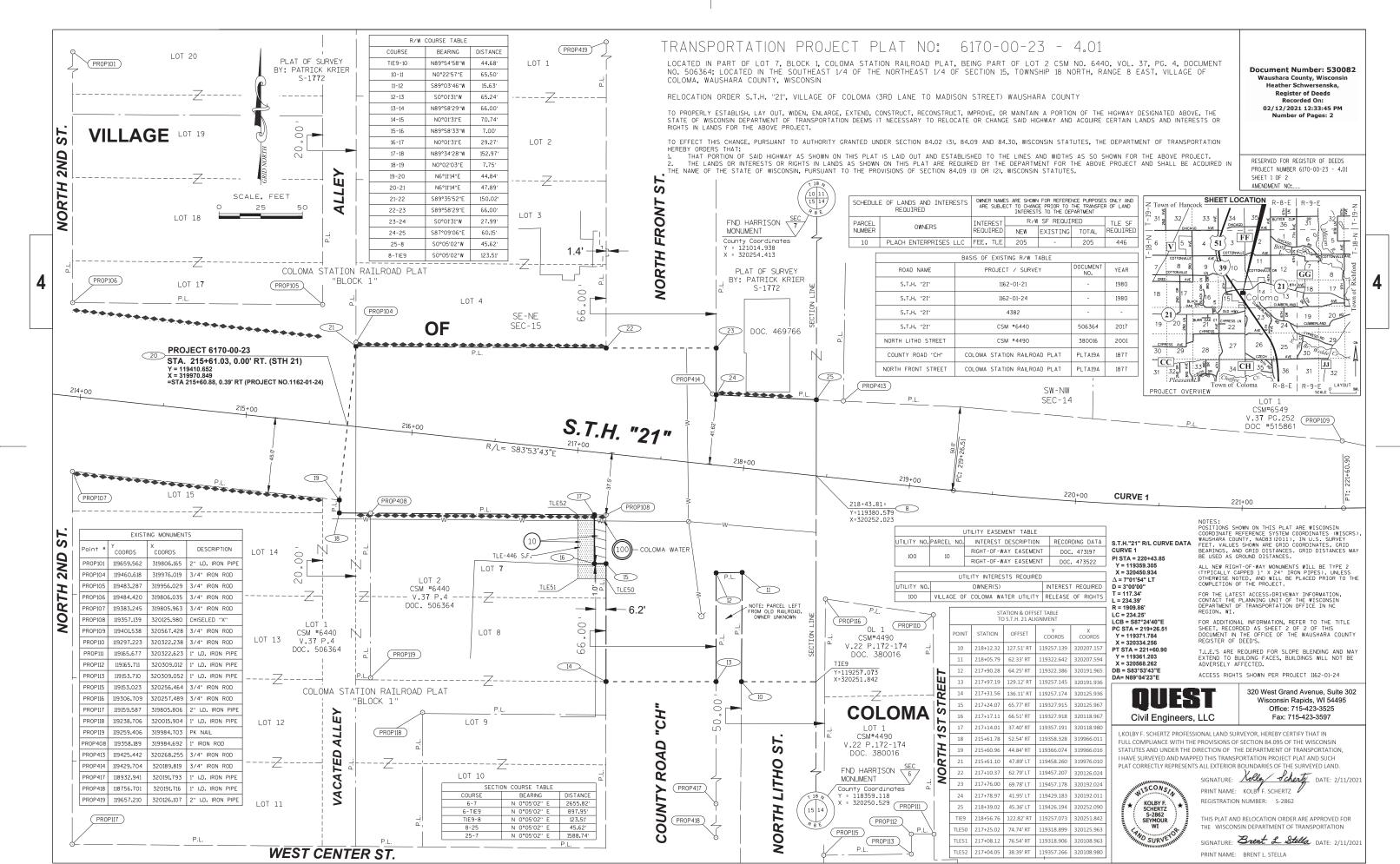
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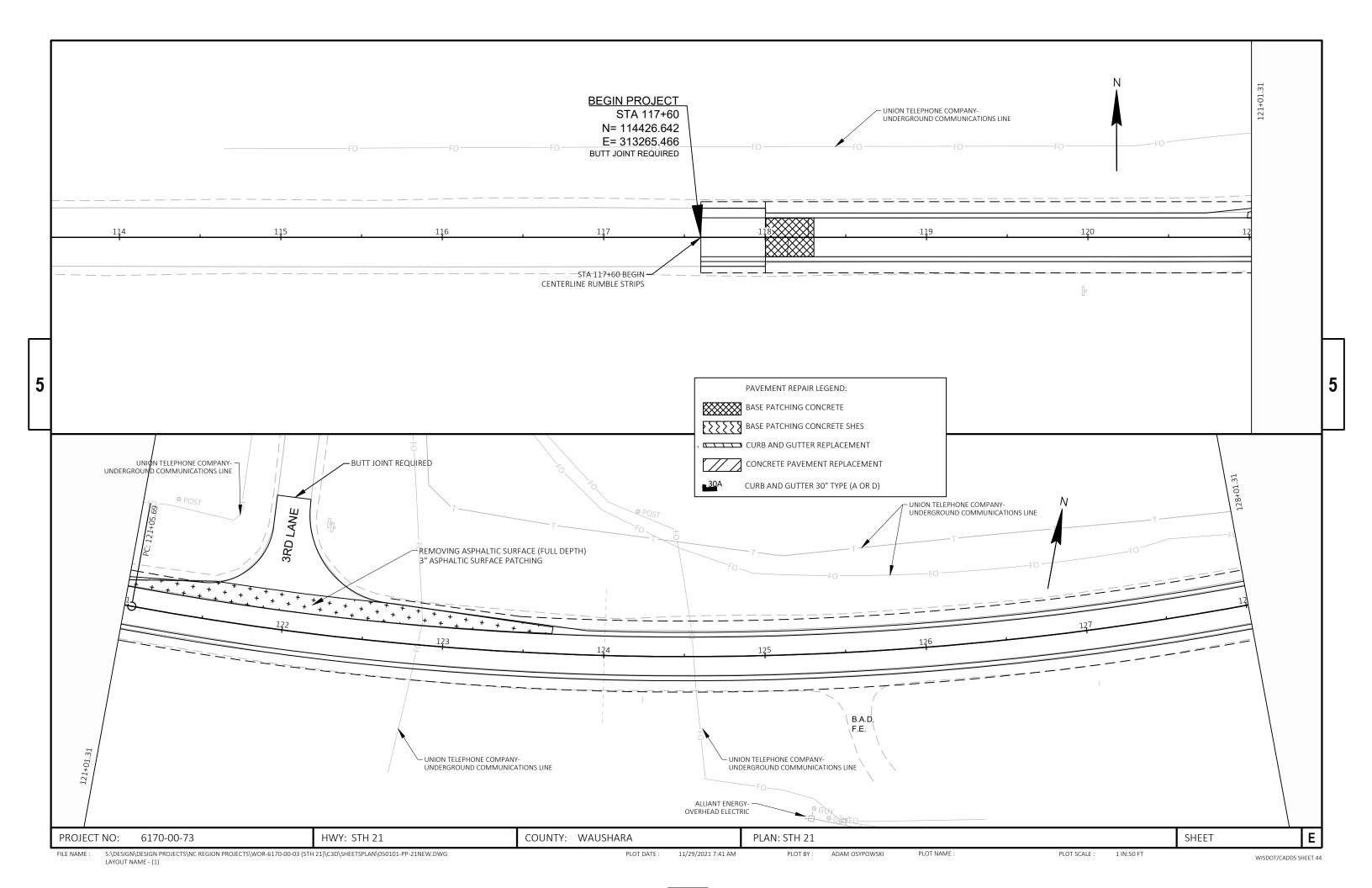
STORM SEWER

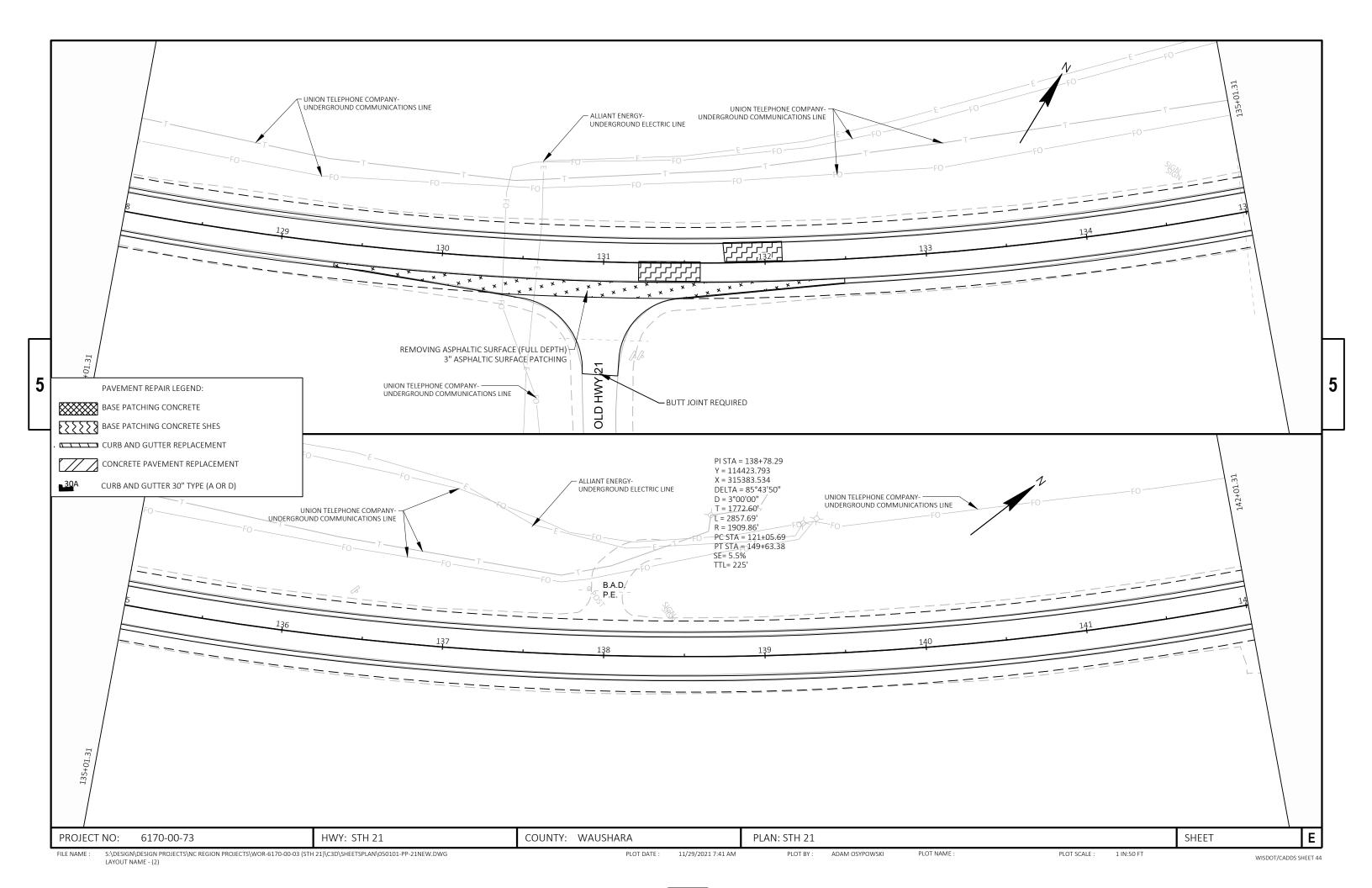
February 11, 2021

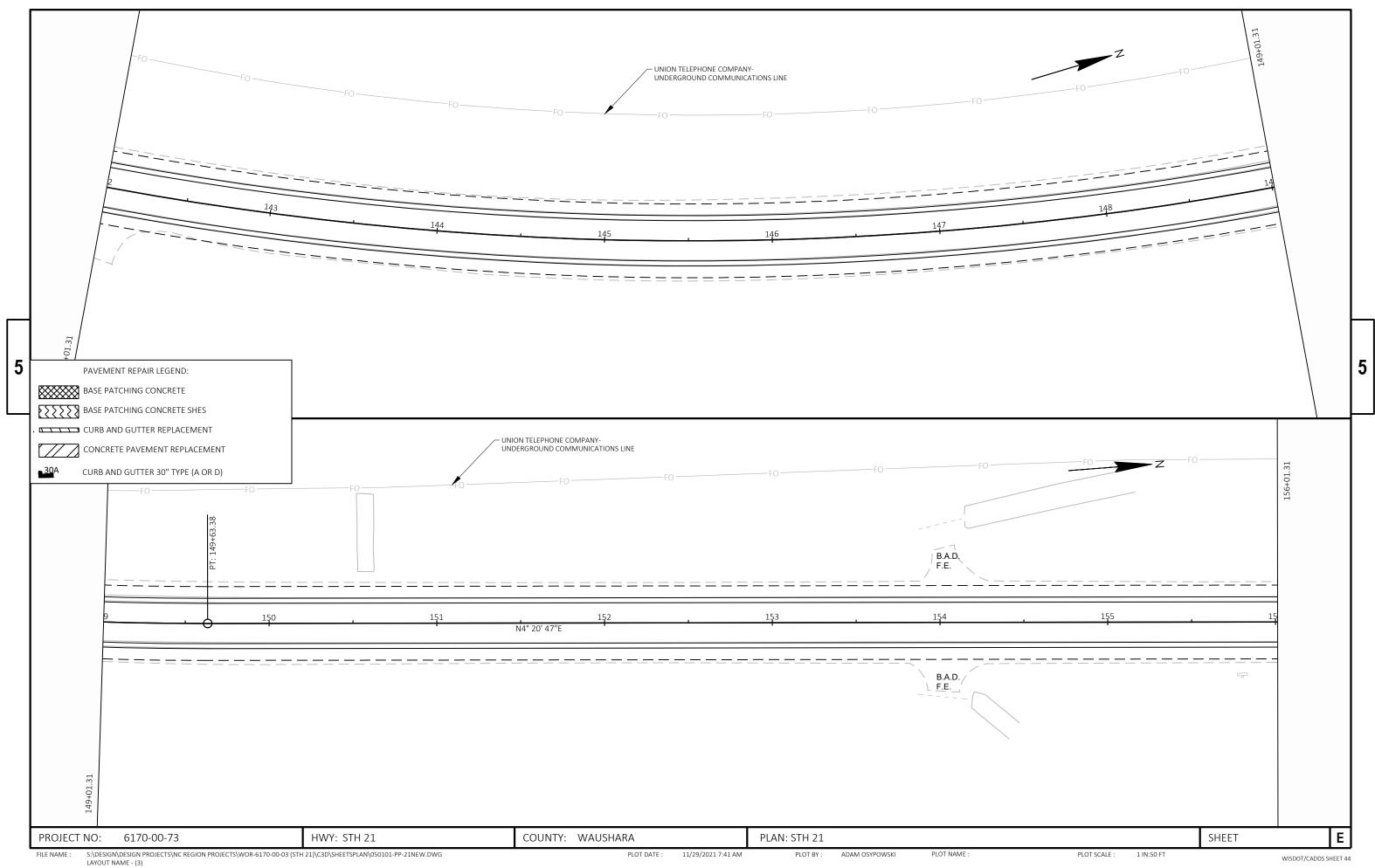
KOLBY SCHERTZ

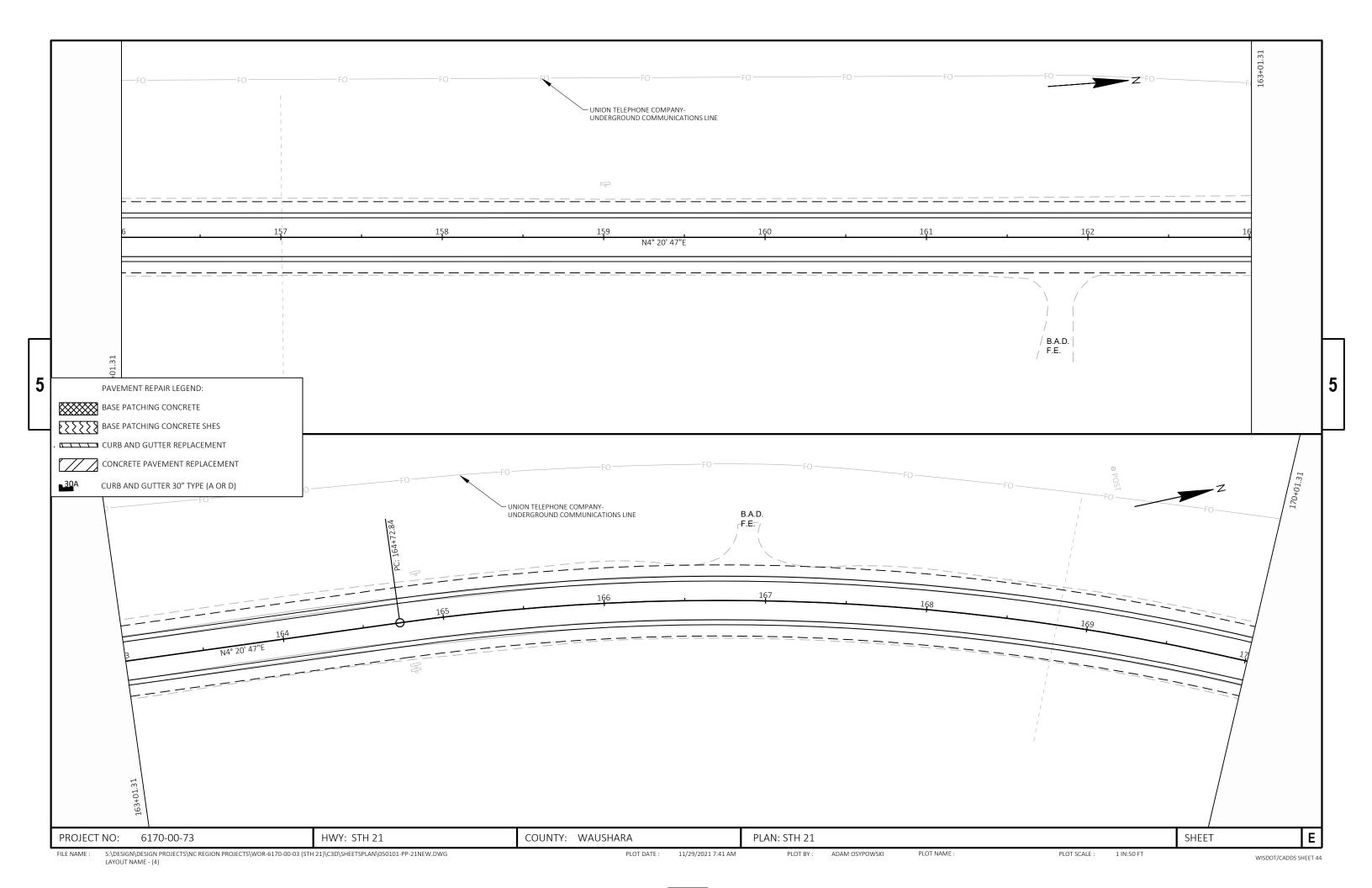
PLOT NAME: S.T.H. 21

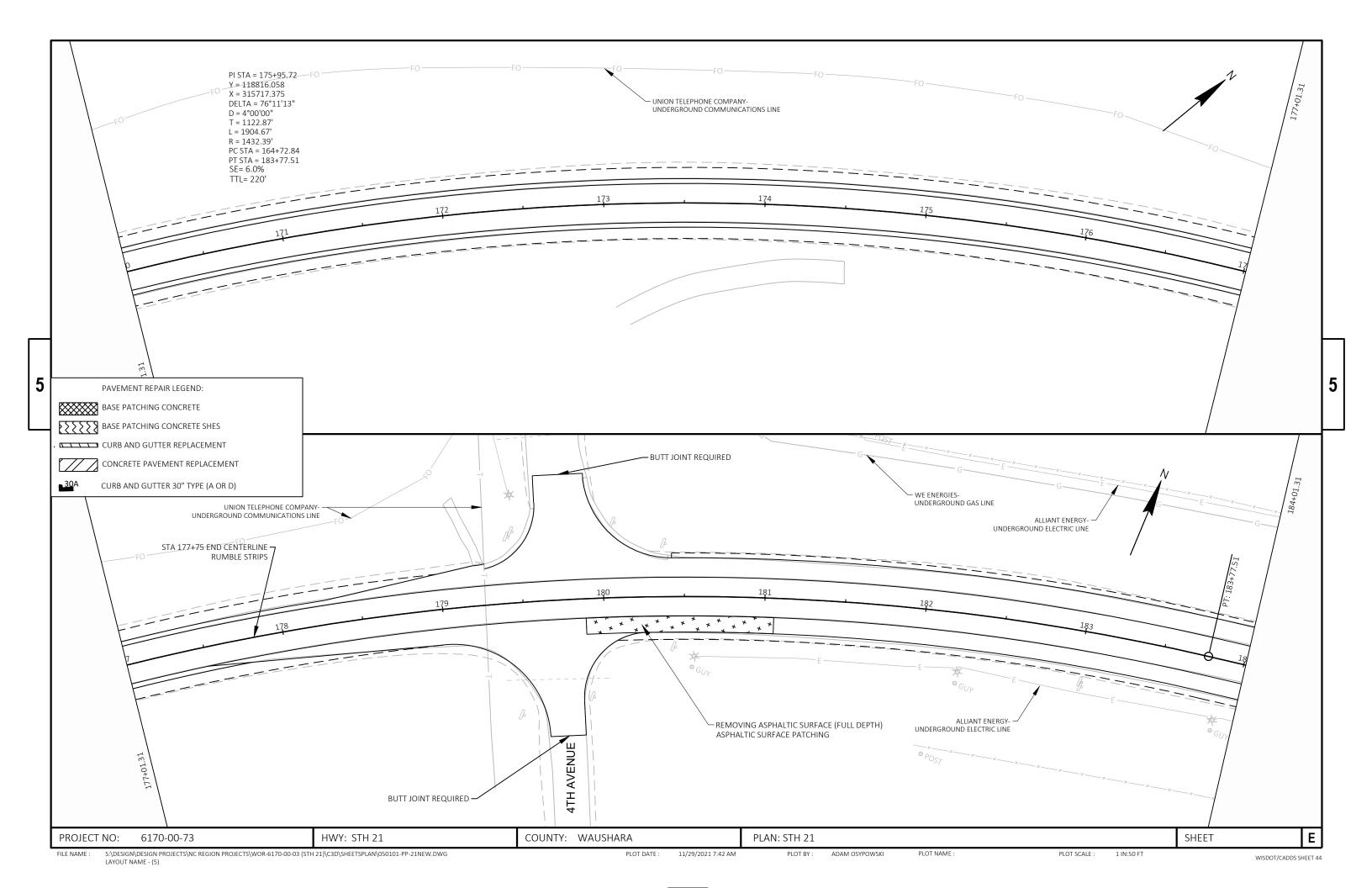


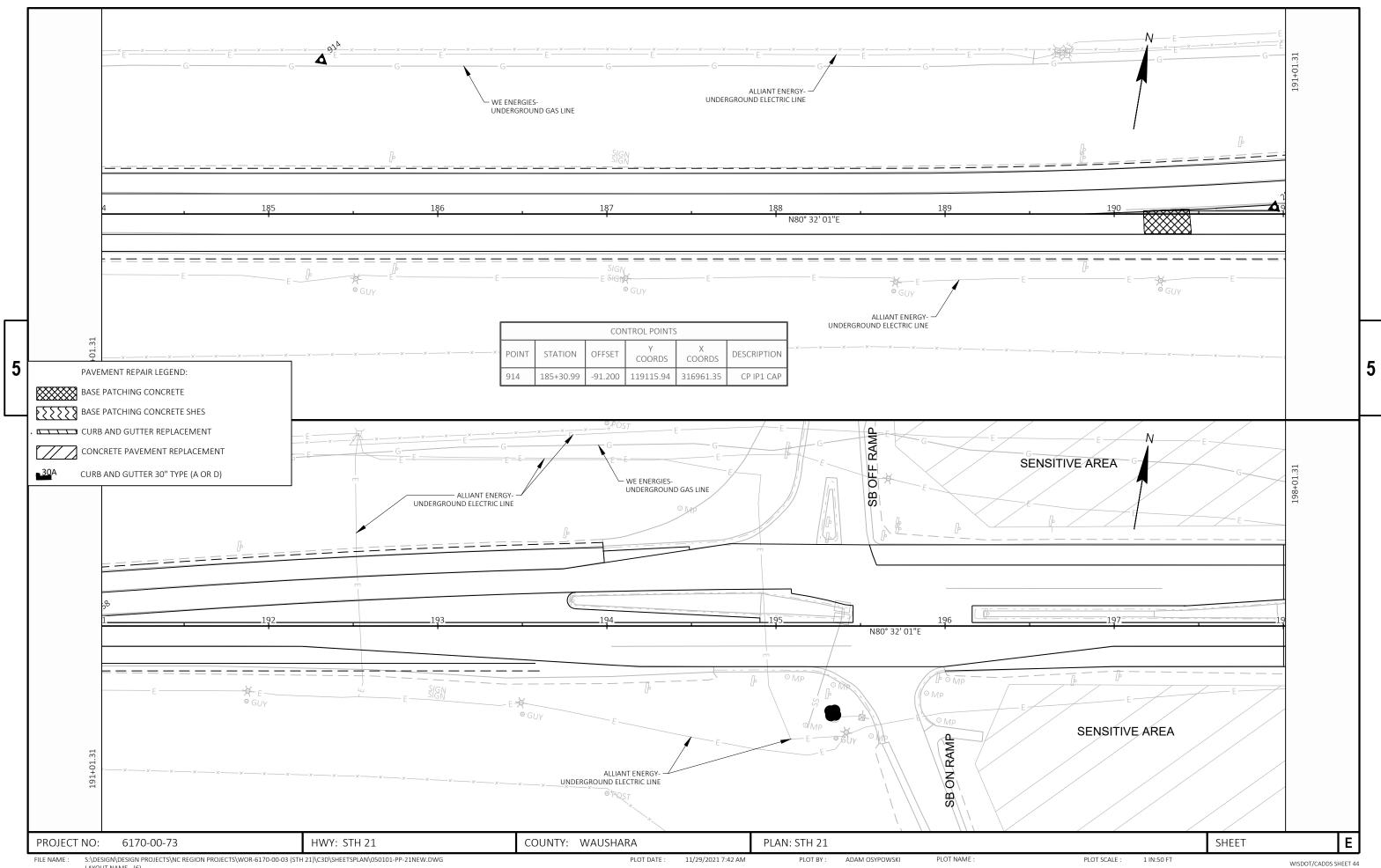




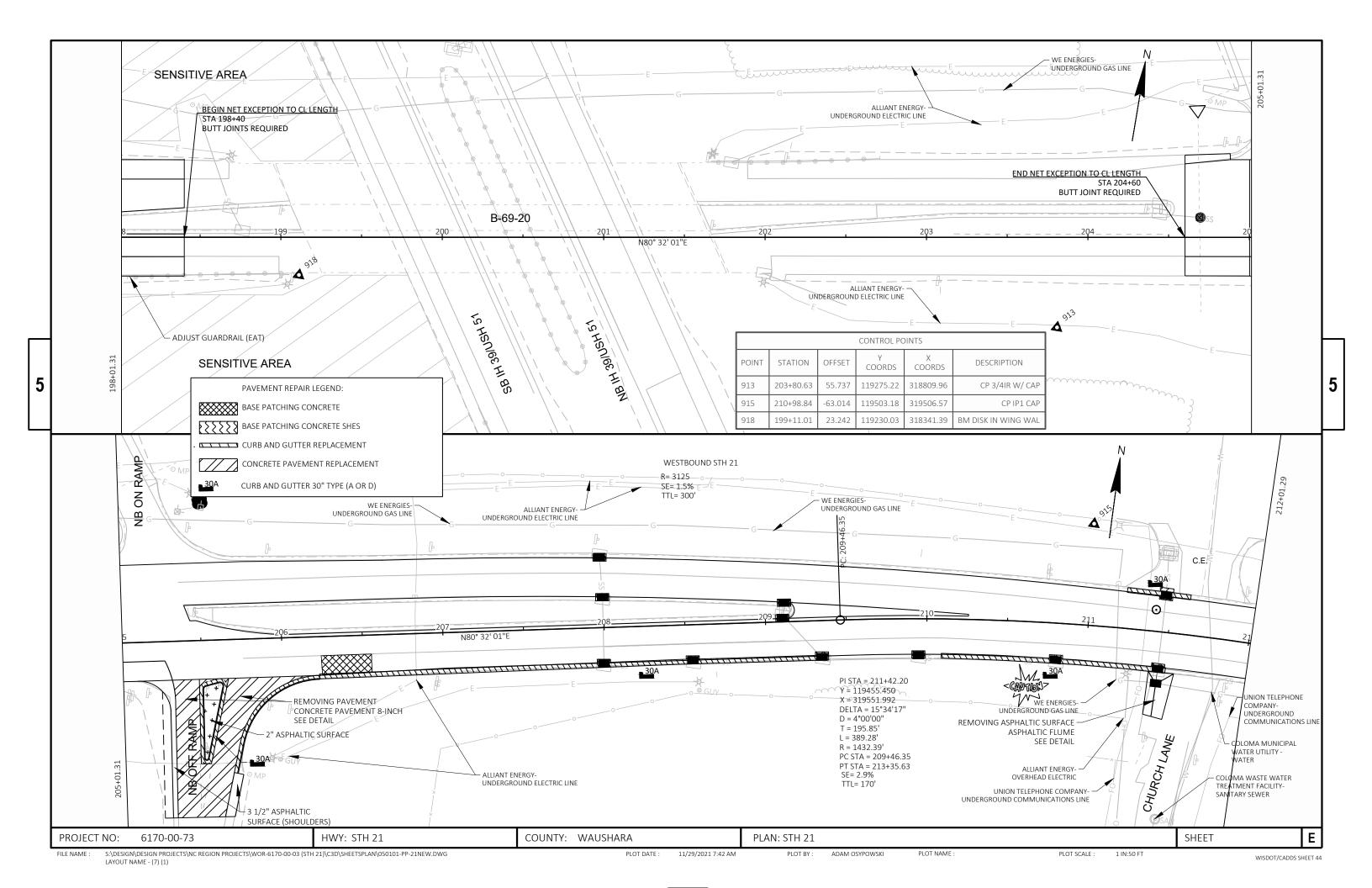


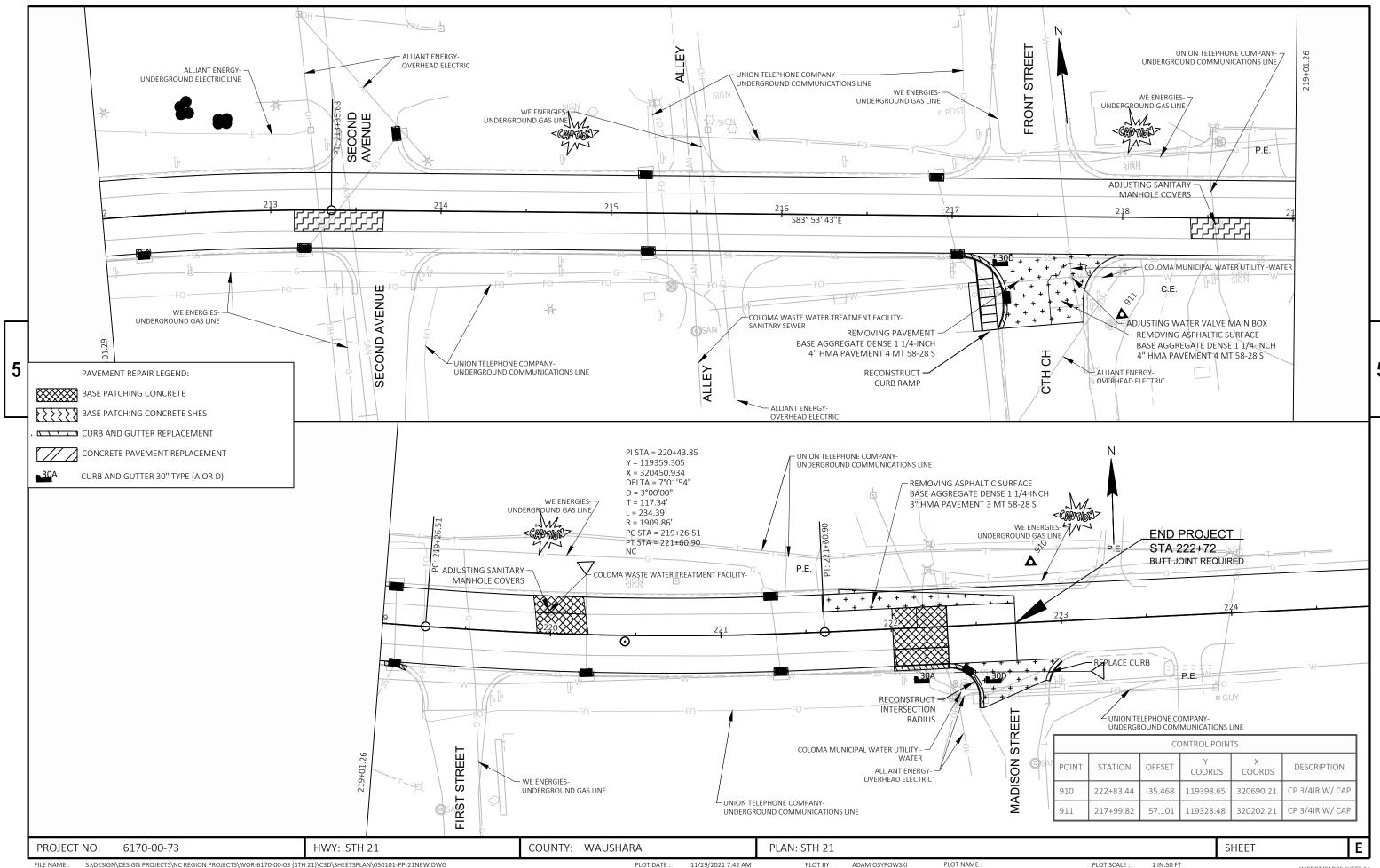






LAYOUT NAME - (6)



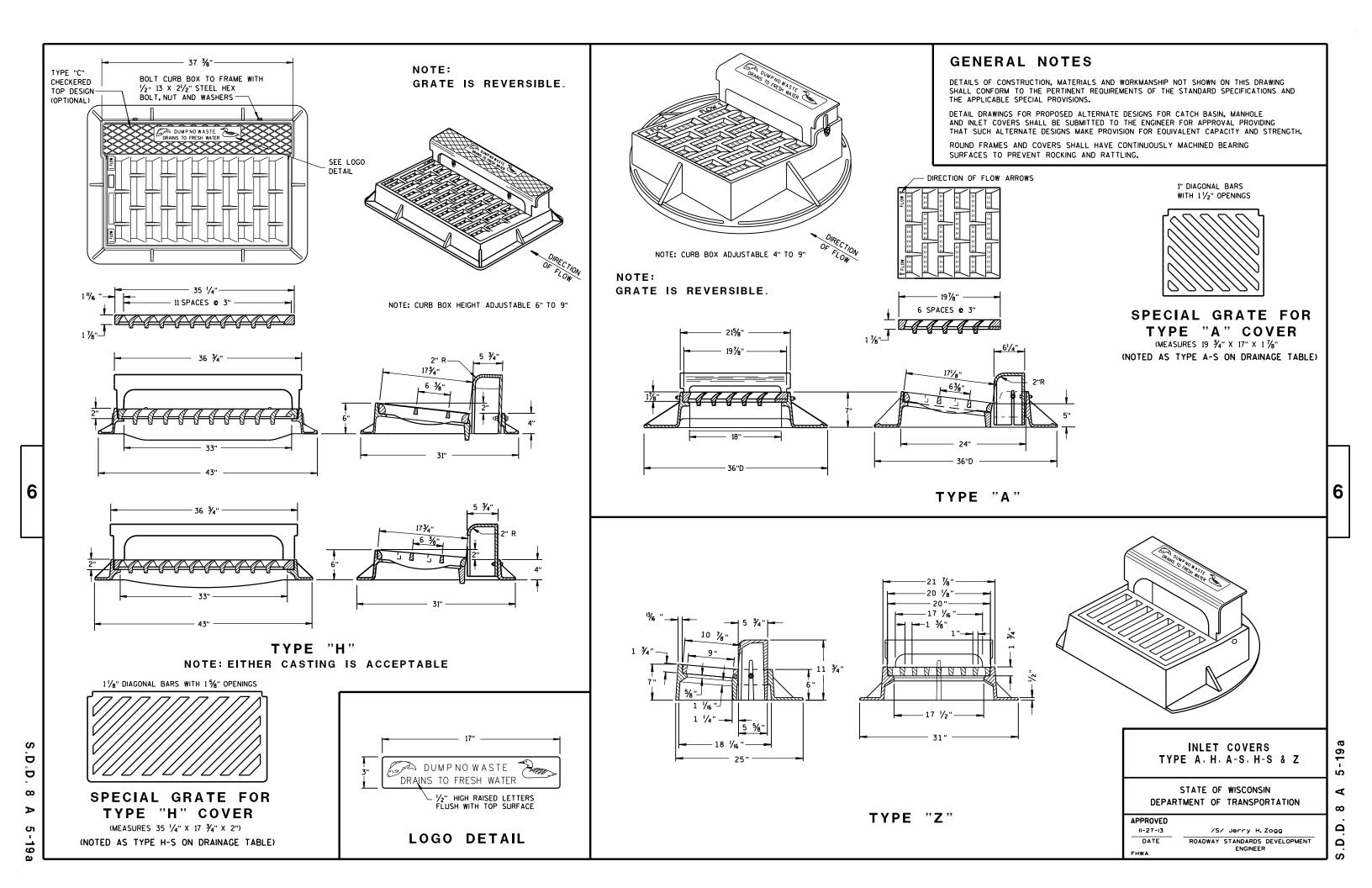


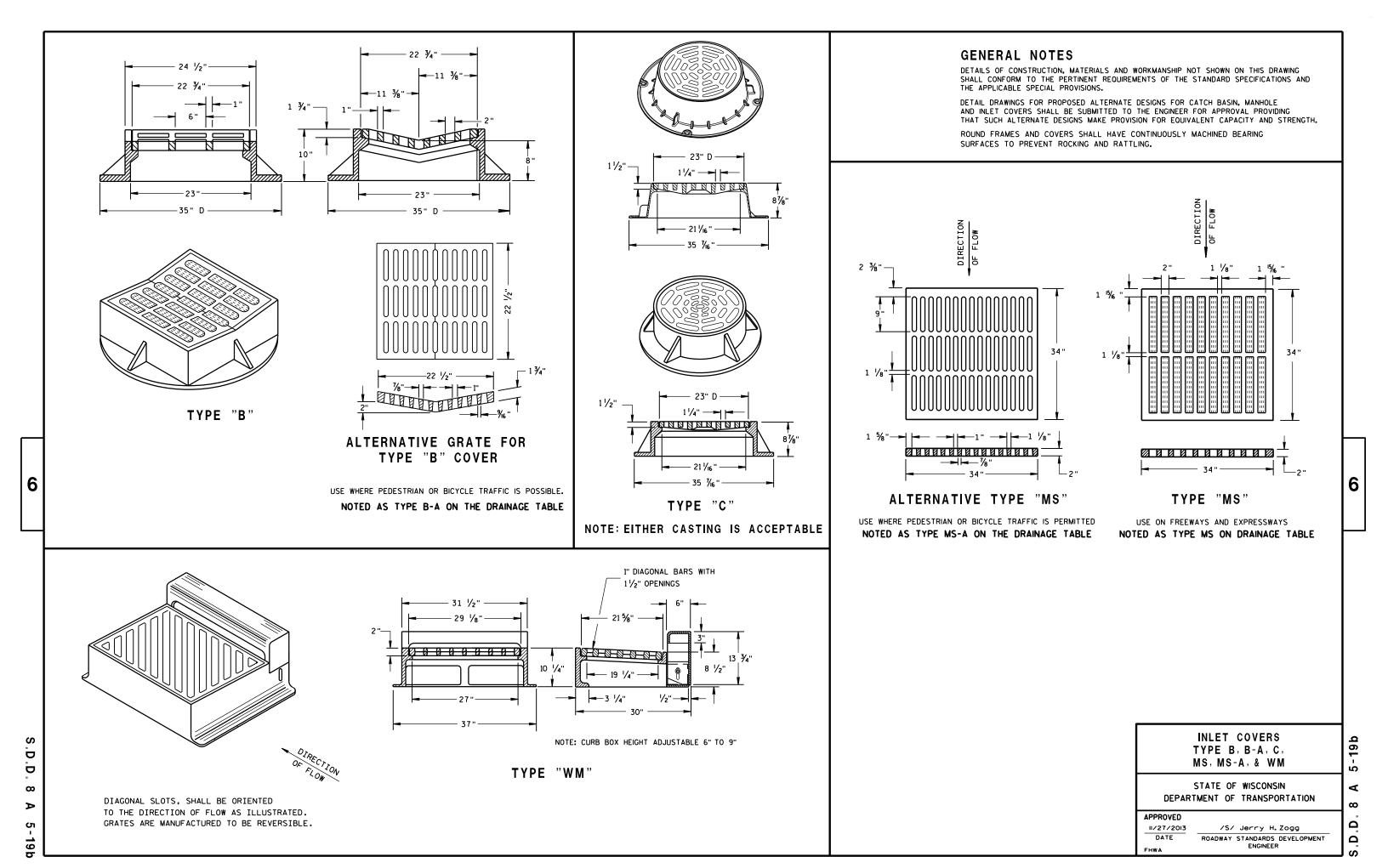
LAYOUT NAME - (8) (2)

WISDOT/CADDS SHEET 44

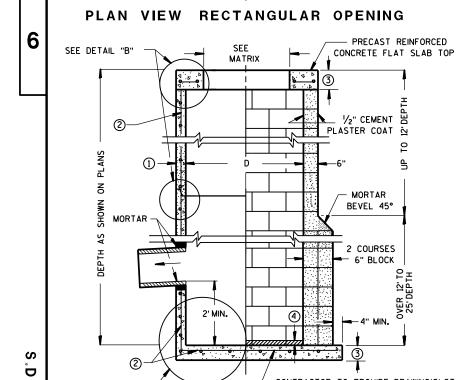
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05B 09G02-05С	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
13A11-03A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C14-07A	BASE PATCHING CONCRETE
13C14-07B	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
13C17-01A	CONCRETE JOINT DETAIL FOR EXIT RAMP TERMINI
13C18-07A	CONCRETE PAVEMENT JOINTING
13С18-07В	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C19-03	HMA LONGITUDINAL JOINTS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
15C02-08D	ON RAMP LANE CLOSURE
15C02-08E	OFF RAMP LANE CLOSURE
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A 15C08-20C	LONGITUDINAL MARKING (MAINLINE) PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-05A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-05B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-05C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15С19-06В	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D06-04	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D33-06	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-02A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D48-01	TRAFFIC CONTROL, LANE SHIFT IN FLAGGING OPERATION
15D50-01A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-01B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY









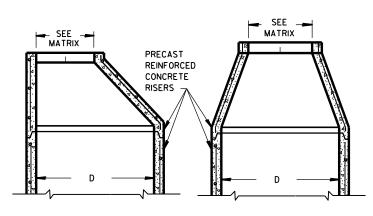
PLAN VIEW CIRCULAR OPENING

SEE MATRIX

PRECAST REINFORCED CONCRETE FLAT SLAB TOP

PRECAST REINFORCED

CONCRETE FLAT SLAB TOP

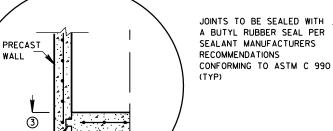


OPTIONAL PRECAST

REINFORCED CONCRETE

ECCENTRIC TOP

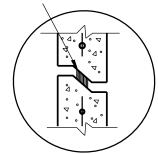
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



TOP WITH PLAIN END JOINT

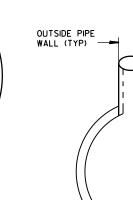
, , , ,

TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

KFYWAY

PRECAST REINFORCED

PRECAST

WALL

BED OF

MORTAR

3

CONCRETE WITH INTEGRAL BASE OPTION

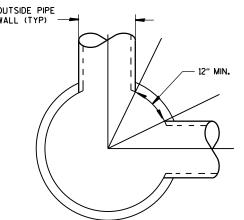
CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

PRECAST REINFORCED CONCRETE BLOCK WITH CAST-CONCRETE WITH IN-PLACE OR PRECAST MONOLITHIC BASE REINFORCED CONCRETE BASE ②

4" OVERHANGING BASE

OVERHANGING BASE



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT: MINIMUM LENGTH OF 10 INCHES: MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF $\frac{1}{2}$ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES ① MINIMUM WALL INICINESS SINCE TO FOR 6-FT DIAMETER PRECAST CATCH BASINS.
- (2) FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.
- 3 PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS
- 4 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN	INLET COVER TYPE	ALL A'S	ALL B'S	BW	С	F	ALL H'S	S	T	٧	WM	Z
SIZE	OPENING SIZE (FT)											
3-FT	2X2	X	Х					Х		Х		
3 1 1	2 DIA.				Х							Х
	2X2	Х	Х					Х		Х		
4-FT-	2X2.5			Х				Х	Х	Х	X	
6-FT	2 DIA.				X							Х
	2X3						Х					
	2.5X3					X						

PIPE MATRIX

CATCH Basin Size	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

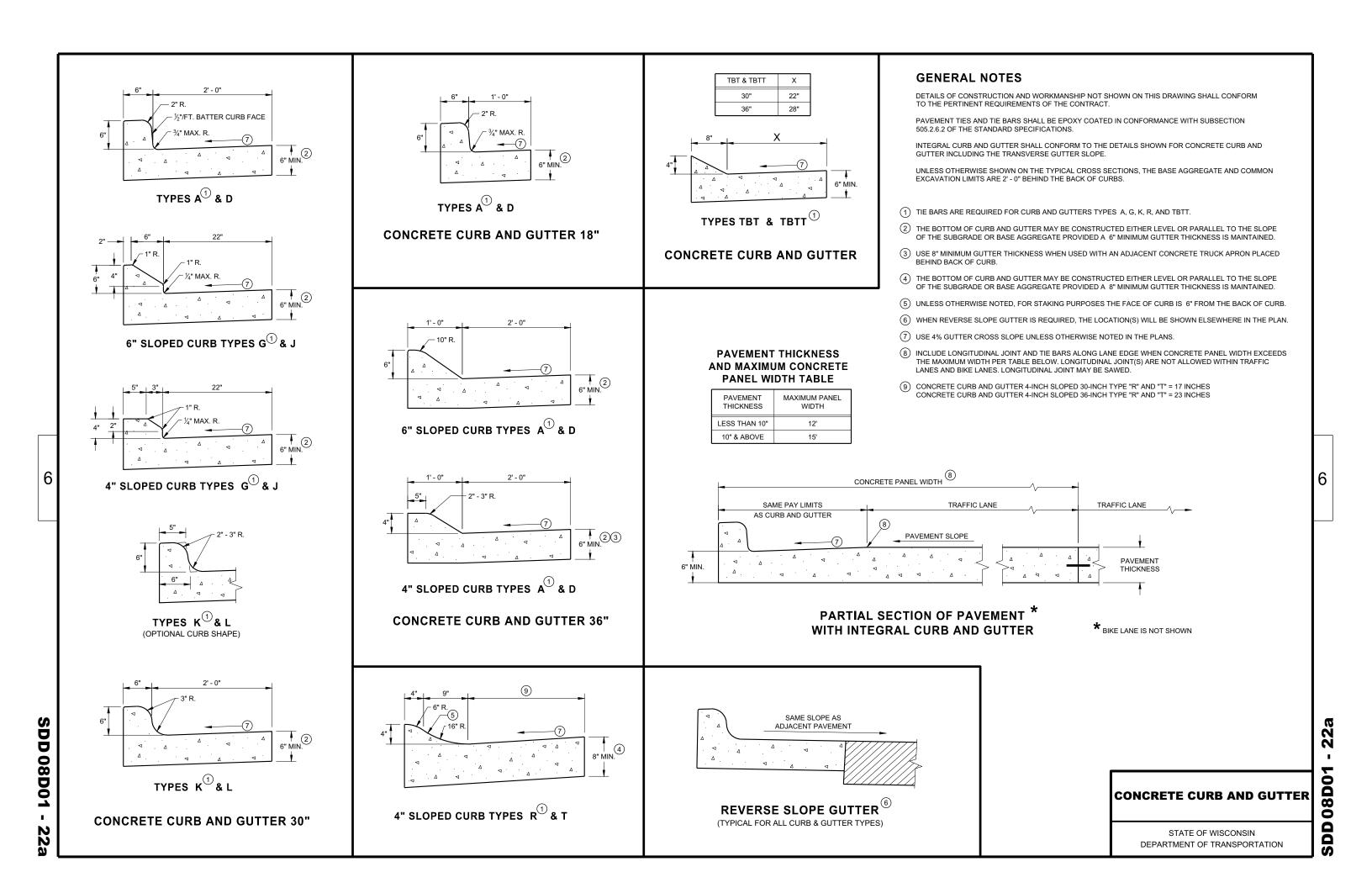
/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

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SEE DETAIL "A"

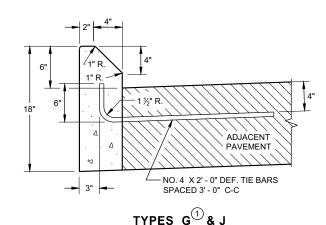
Ω



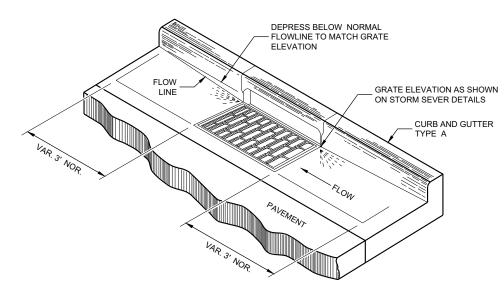
DETAIL OF CURB AND GUTTER AT INLETS (TYPICAL H INLET COVER SHOWN)

½"/FT. BATTER, FACE OF CURB (ABOVE ADJACENT PAVEMENT) ADJACENT PAVEMENT - NO. 4 X 2' - 0" DEF. TIE BARS

TYPES A D



CONCRETE CURB



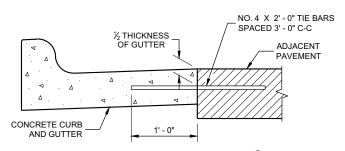
GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

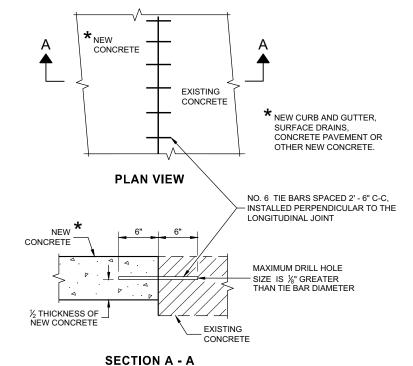
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'- 0" BEHIND THE BACK OF CURBS.

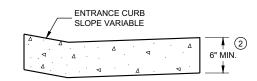
- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 9 REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION $^{\scriptsize{\scriptsize{\scriptsize{\scriptsize{\scriptsize{1}}}}}}$



TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB® (WHEN DIRECTED BY THE ENGINEER)

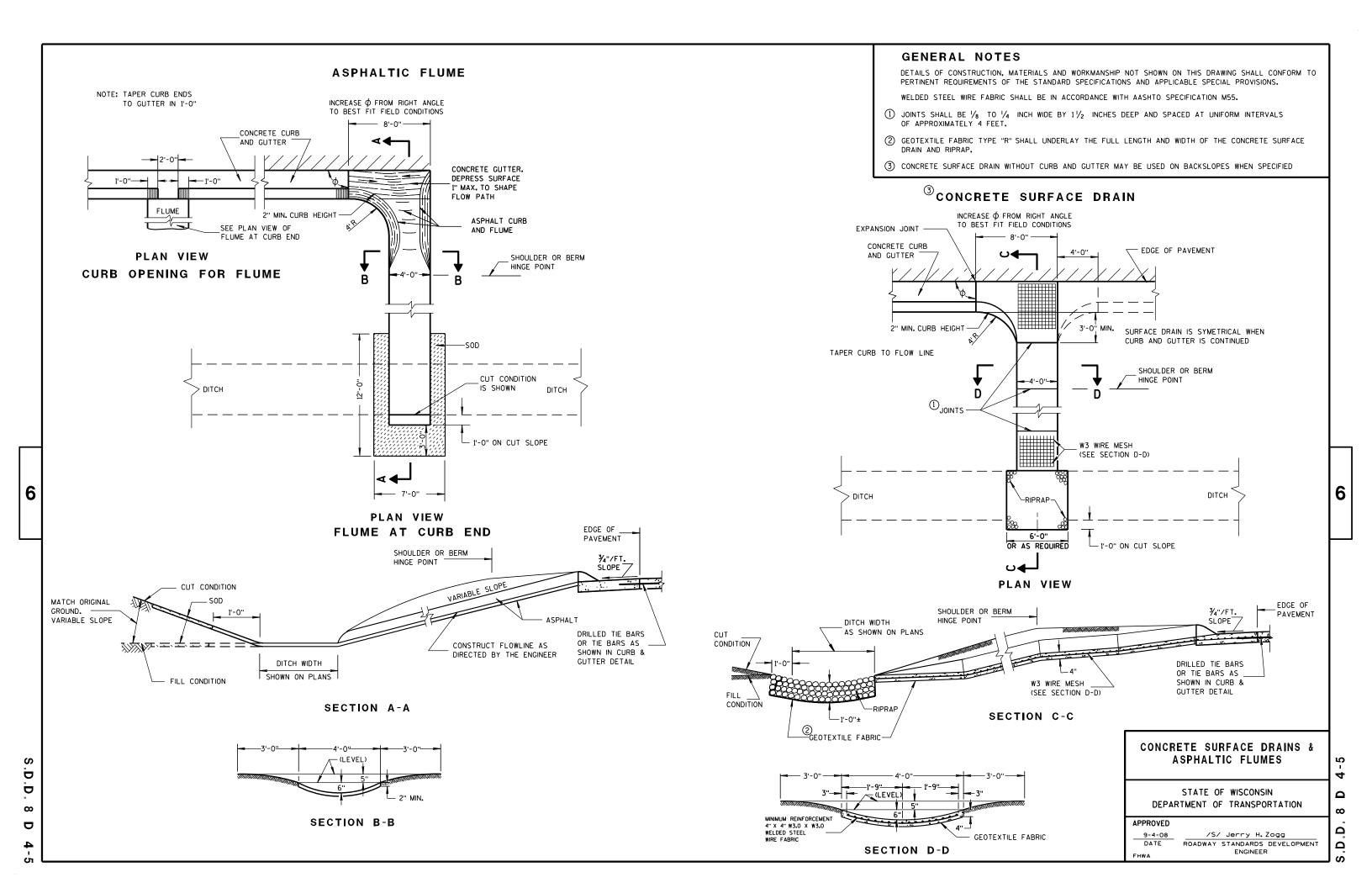
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

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08DO

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

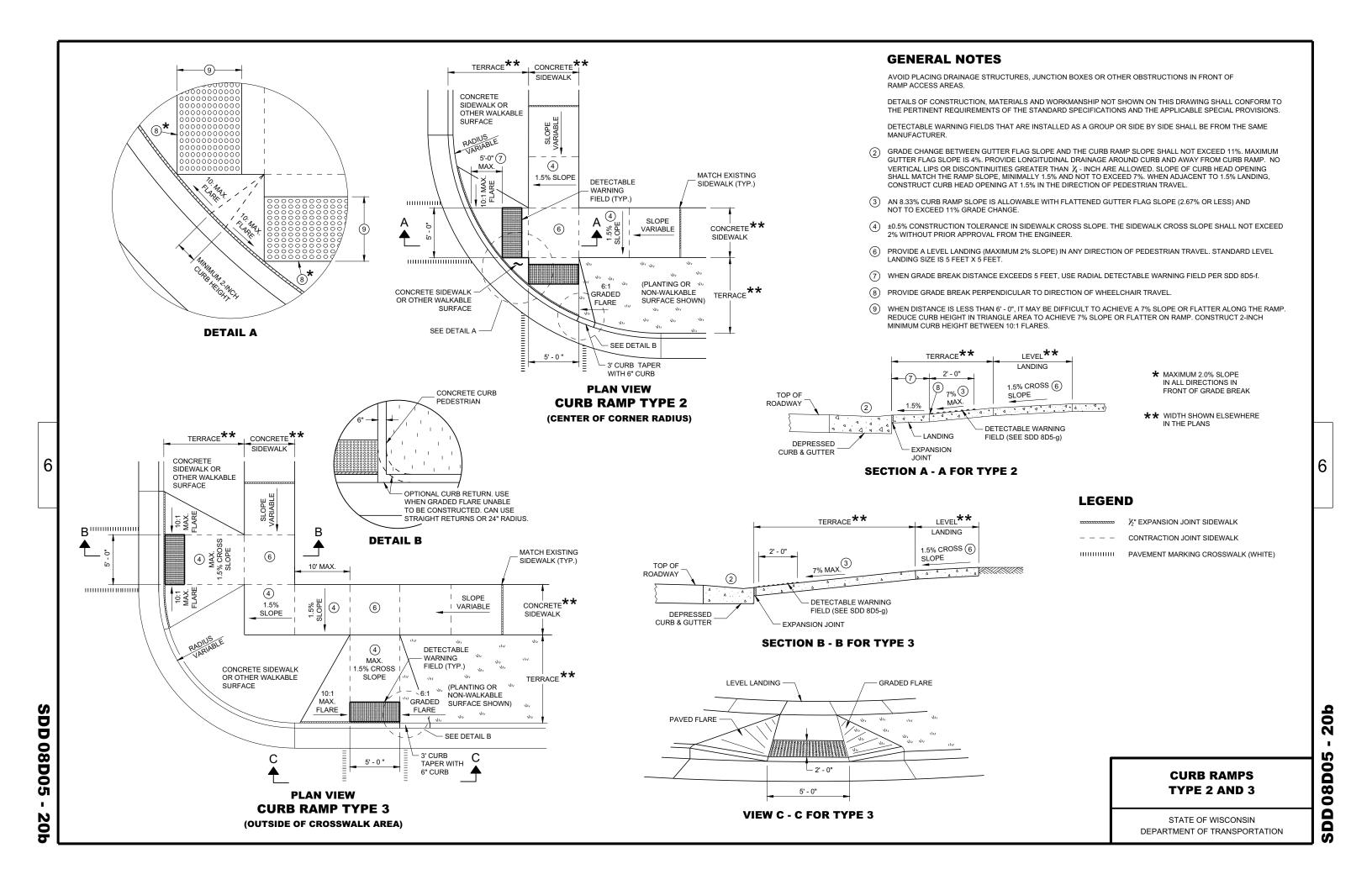
APPROVED /S/ Rodnery Taylor
ROADWAY STANDARDS DEVELOPMENT
ENGINEER February 2021 DATE



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080

DEPARTMENT OF TRANSPORTATION



SDD 08D05

20

08D0

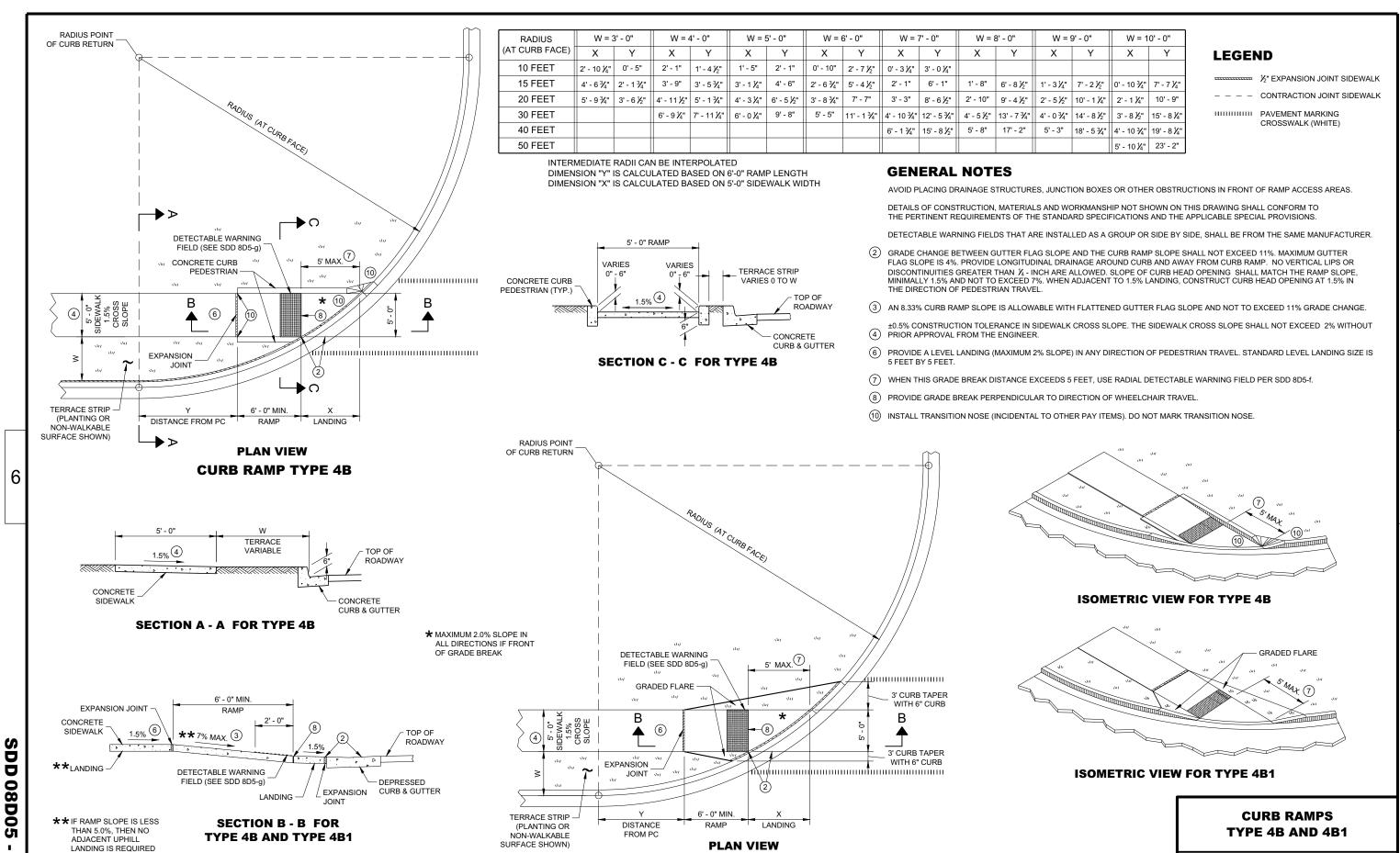
SDD

ISOMETRIC VIEW FOR TYPE 4A

GRADED FLARE

ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS TYPE 4A AND 4A1



CURB RAMP TYPE 4B1

DD 08D05 - 20d

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08D0

SDD 08D05

DEPRESSED CURB & GUTTER

*** MAXIMUM 8.33%

FIELD (SEE SDD 8D5-a)

SECTION B - B FOR TYPE 4B1

IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO

LANDING IS REQUIRED

ADJACENT UPHILL

6

ÖD

08D05

20f

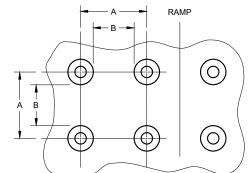
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RADIAL DETECTABLE WARNING **FIELD APPLICATIONS**



PLAN VIEW

★ THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

MIN.

1.6"

0.65"

*

0.9"

В

С

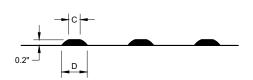
MAX.

2.4"

1.5"

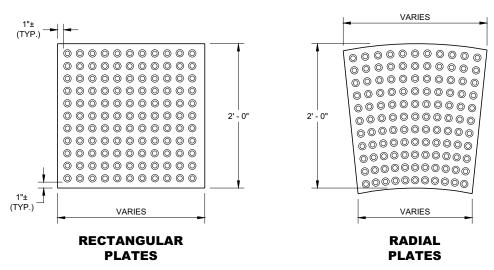
*

1.4"

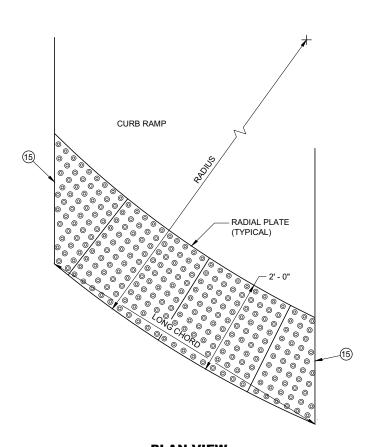


ELEVATION VIEW

TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW DETECTABLE WARNING FIELDS (TYPICAL)



GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS, PERFORM PRE-LAYOUT PRIOR

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING

THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S

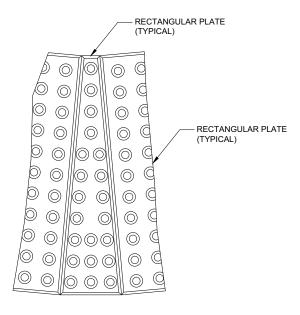
TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

PLAN VIEW RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR May 2019
DATE

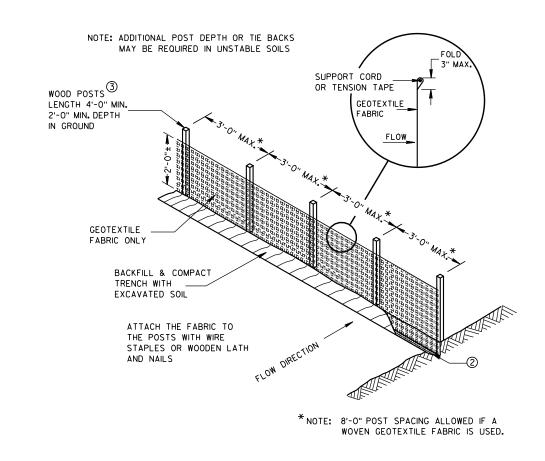
TYPICAL APPLICATION OF SILT FENCE

6

b

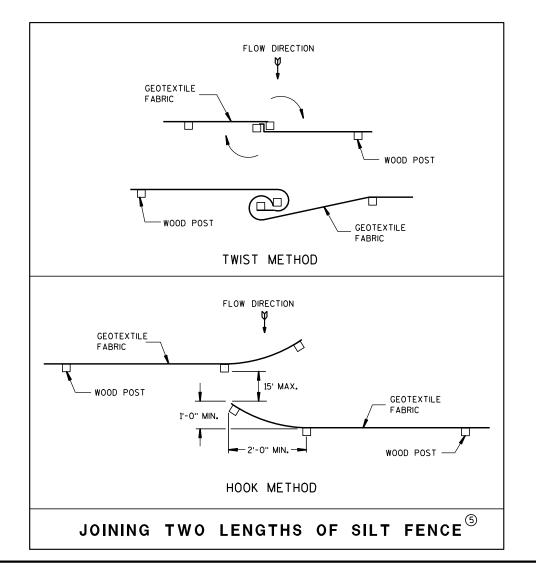
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-ROADWAY -ROADWAY SHOULDER SHOULDER — DITCH DIKE INSLOPE INSLOPE (1) --≪ >→ **₹** INSLOPE INSLOPE SHOULDER SHOULDER ROADWAY - ROADWAY SITUATION 2 SITUATION 1

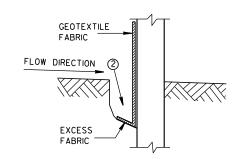
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



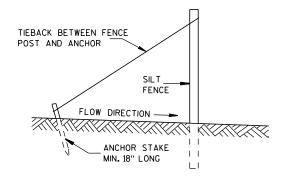
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- \bigcirc HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

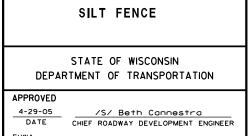


TRENCH DETAIL



SILT FENCE TIE BACK

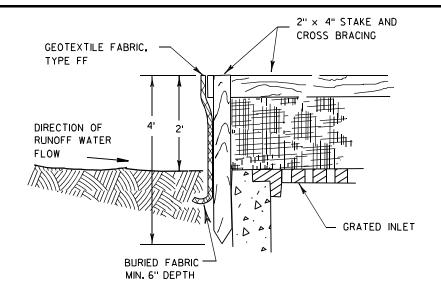
(WHEN REQUIRED BY THE ENGINEER)

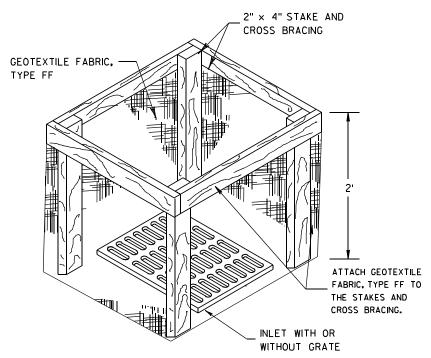


SILT FENCE

6

S.D.D. 8 E 9-6





INLET PROTECTION, TYPE A

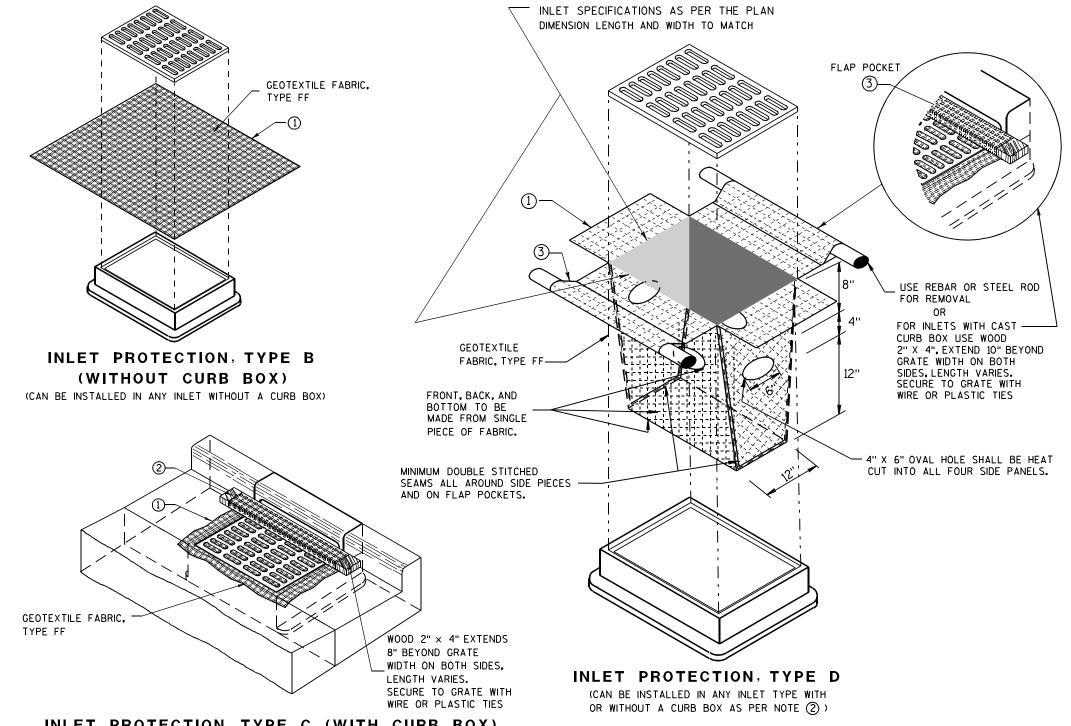
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D 6

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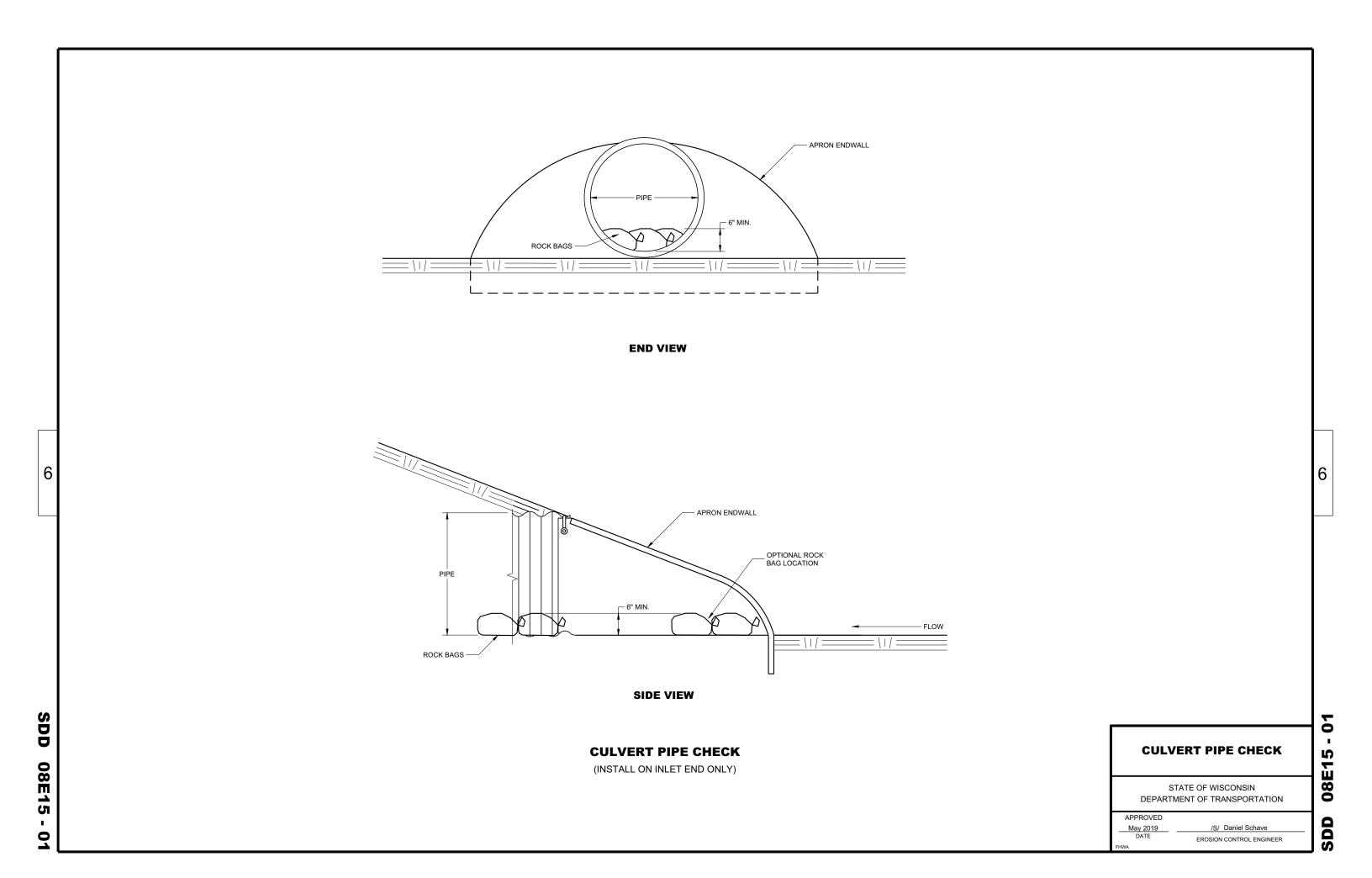
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER



	SHOOLDEN
	SLOPE L
	SLOPE 1
n	DIA.
ס	FLOW LINE
כ	
x	

SHOUL DEB

END VIEW

SIDE ELEVATION	
METAL ENDWALLS	

METAL APRON ENDWALLS

MIN. THICK.

(Inches)

.064 .060

-064 -060

.060

.075

.075

.105

.105

.105

.105

.105×

-105 x

.109× .105× 18

.109 × .105 × 18

.109× .105× 18 42

.109× .105×

.064

.064

.109

.109

-109 x

END CORNER

1/16" DIA. HOLES FOR

12" C-C MAX. SPACING

BOLTS OR RIVETS -

21

24

60

72

6

STEEL ALUM。 (±1") |(MAX。)| (±1") |(±1 "/>")|

9

10

12

18

18

18

18

8

10

12

13

16

19

22

27

33

36

39

45

37

* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

96 .109 × .105 × 18 35 12 87 —

18 30

DIMENSIONS (Inches)

21

26

36

41

51

60

69

78

87

87

87

87

87

6

6

8

11

12

12

12

12

12

12

12

12 87

(1)

14

15

24

84 30 851/2

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- | -

18 | 295/₈

24 593/

24 | 81

371/

			RE	NFORC	ED C	ONCRE T	E APRO	N E	NDWAL	.LS
		PIPE			DIM	ENSIONS	(Inches)			APP
•	BODY	DIA.	T	A	В	С	D	E	G	SLC
l	1Pc.	12	2	4	24	48 1/8	721/8	24	2	3 +
l	1Pc.	15	21/4	6	27	46	73	30	21/4	3 t
l	1Pc.	18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 +
i	1Pc.	21	23/4	9	36	371/2	731/2	42	23/4	3 +
•	1 Pc.	24	3	91/2	431/2	30	731/2	48	3	3 +
		27	31/4	101/2	491/2	24	731/2	54	31/4	3 t
1	1Pc.	30	31/2	12	54	19¾	731/2	60	31/2	3 +
l	2 Pc.	36	4	15	63	34¾	973/4	72	4	3 +
l	2 Pc.	42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 +
l	3 Pc.	48	5	24	72	26	98	84	5	3 +
1	3 Pc.	54	51/2	27	65	* ** 331/4-35	8 ¹ /4- 100	90	51/2	2%+
	3 Pc.	60	6	* ** 30-35	60	39	99	96	5	2 †
	3 Pc. 3 Pc.	66	61/2	* ** 24-30	* ** 72-78	* ** 21-27	99	102	51/2	2 +0
	3 Pc.	72	7	* ** 24-36	78	21	99	108	6	2 +
	3 Pc.	78	71/2	* ** 24-36	78	21	99	114	61/2	2 +
	3 Pc.	84	8	36	901/2	21	1111/2	120	61/2	11/2+
	3 Pc.		01/	44	071/	24	111/	170	61/	11/ 4

IPPROX

SLOPE

/₂to 1

1/2+o 1

½+o 1

⁄2+o 1

sto 1

∕₄+o 1

2 to 1

2 to 1

11/2+0 1

 $1\frac{1}{2}$ to 1

120 2 +0 1

144 11/2 to 1

/2†0

42

84

114

126

132

138

REINFORCED

SECTION A-A)

PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD

TOE PLATE (SAME THICKNESS

AND METAL AS APRON) SHALL

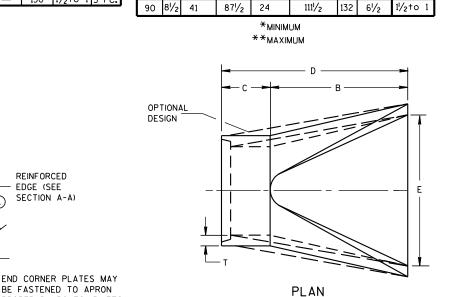
BE FURNISHED WHEN CALLED

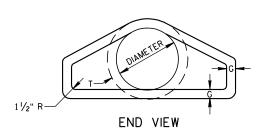
FOR ON THE PLANS

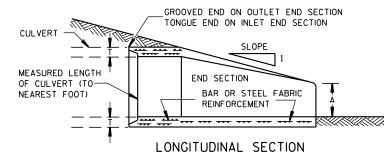
THE SURFACES TIGHTLY

TOGETHER

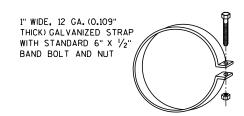
FDGE (SFE







CONCRETE ENDWALLS



APPROX

SLOPE

†o

†o

3 to

†o

†o

†o

i to

3 to

3 to

2% to

2 to

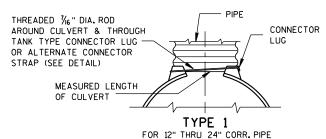
2 to 1

2 to 1

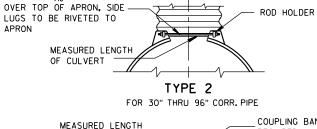
2 to 1

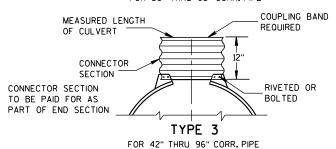
11/2+0 1

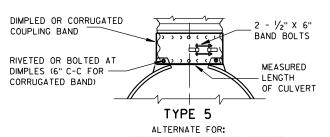
ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP



THREADED 16" DIA. ROD







ALL SIZES CORRUGATED CIRCULAR PIPE

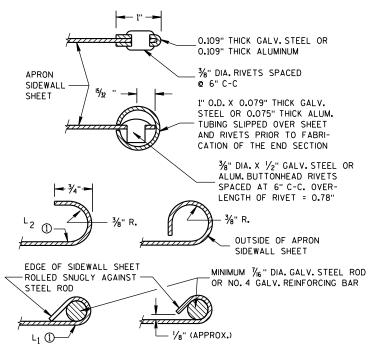
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

> FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

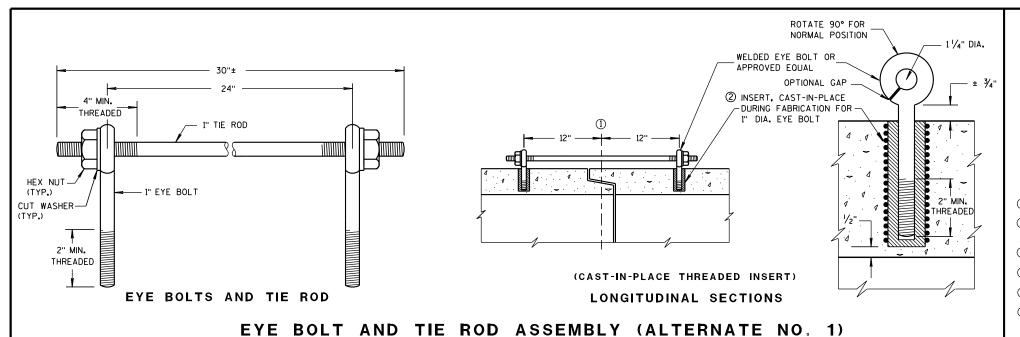
(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR **CULVERT PIPE**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

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GENERAL NOTES

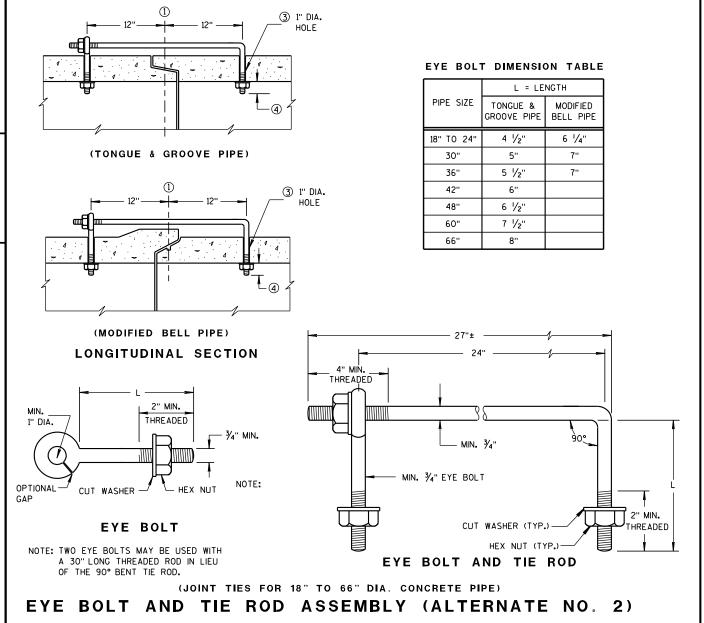
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

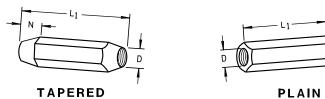
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

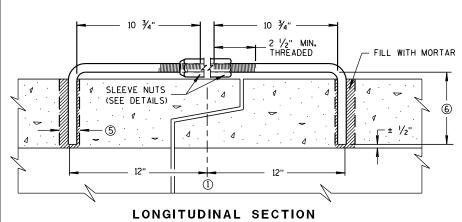
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak C}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.



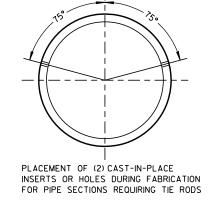
ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES



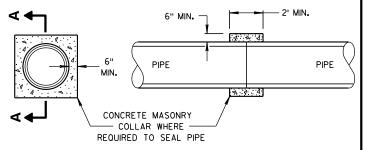
RIGHT AND LEFT THREADS **SLEEVE NUTS**



(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE) ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012 DATE

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

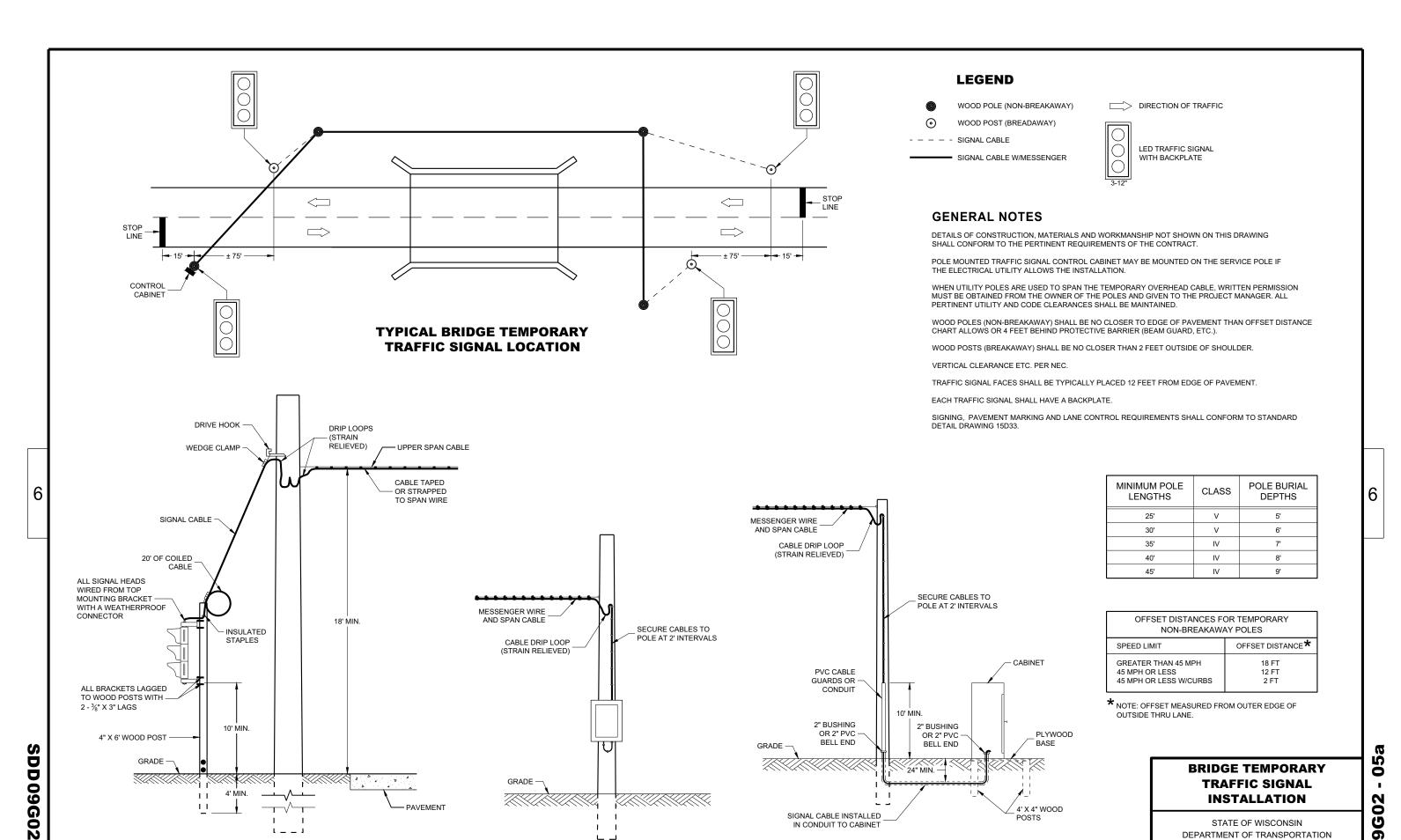
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POLE MOUNT

CABINET INSTALLATION

GRADE

- PAVEMENT

4' MIN.

TYPICAL DROP TO

TRAFFIC SIGNAL FACE

BRIDGE TEMPORARY TRAFFIC SIGNAL **INSTALLATION**

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March 2018

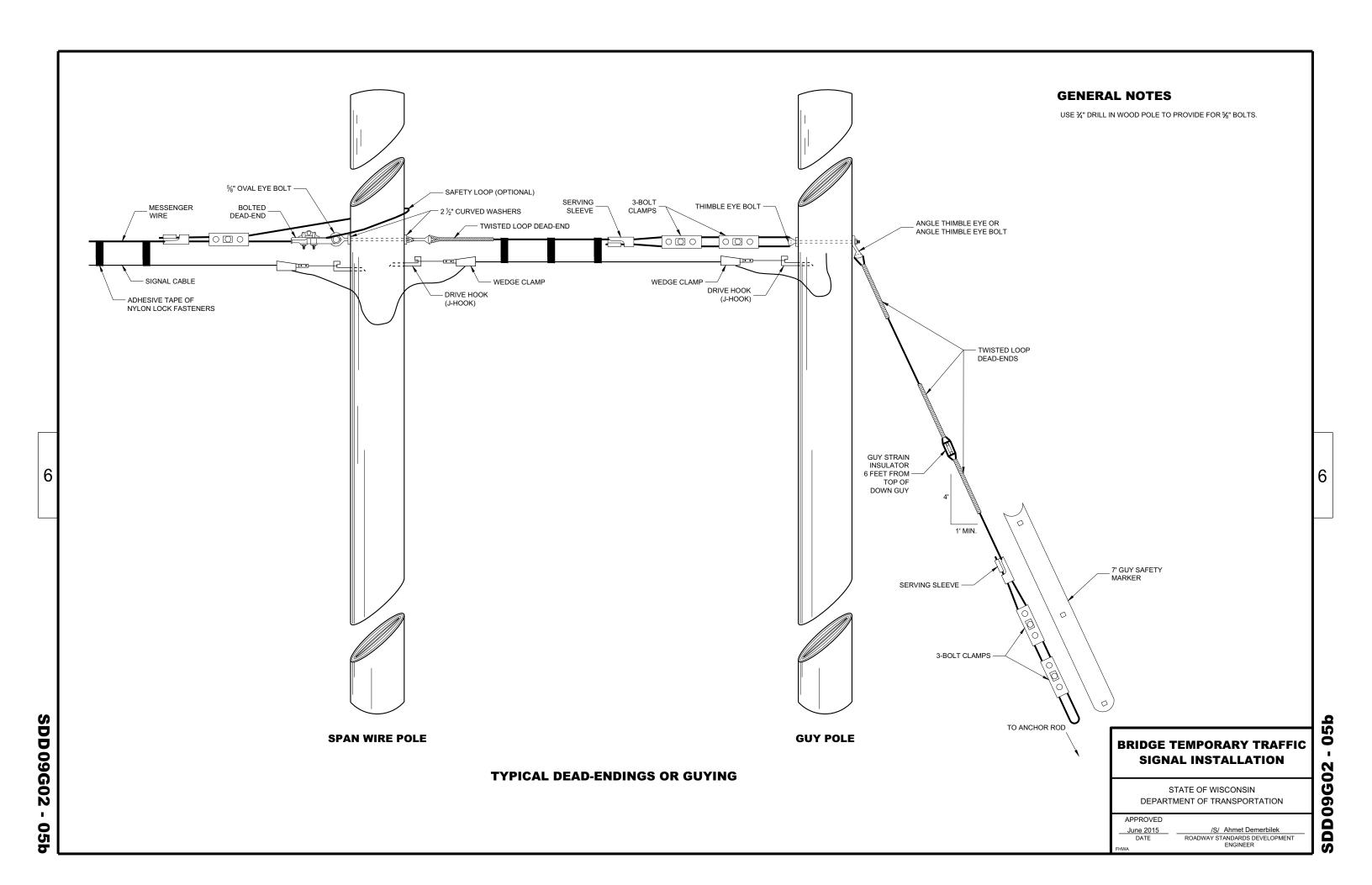
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

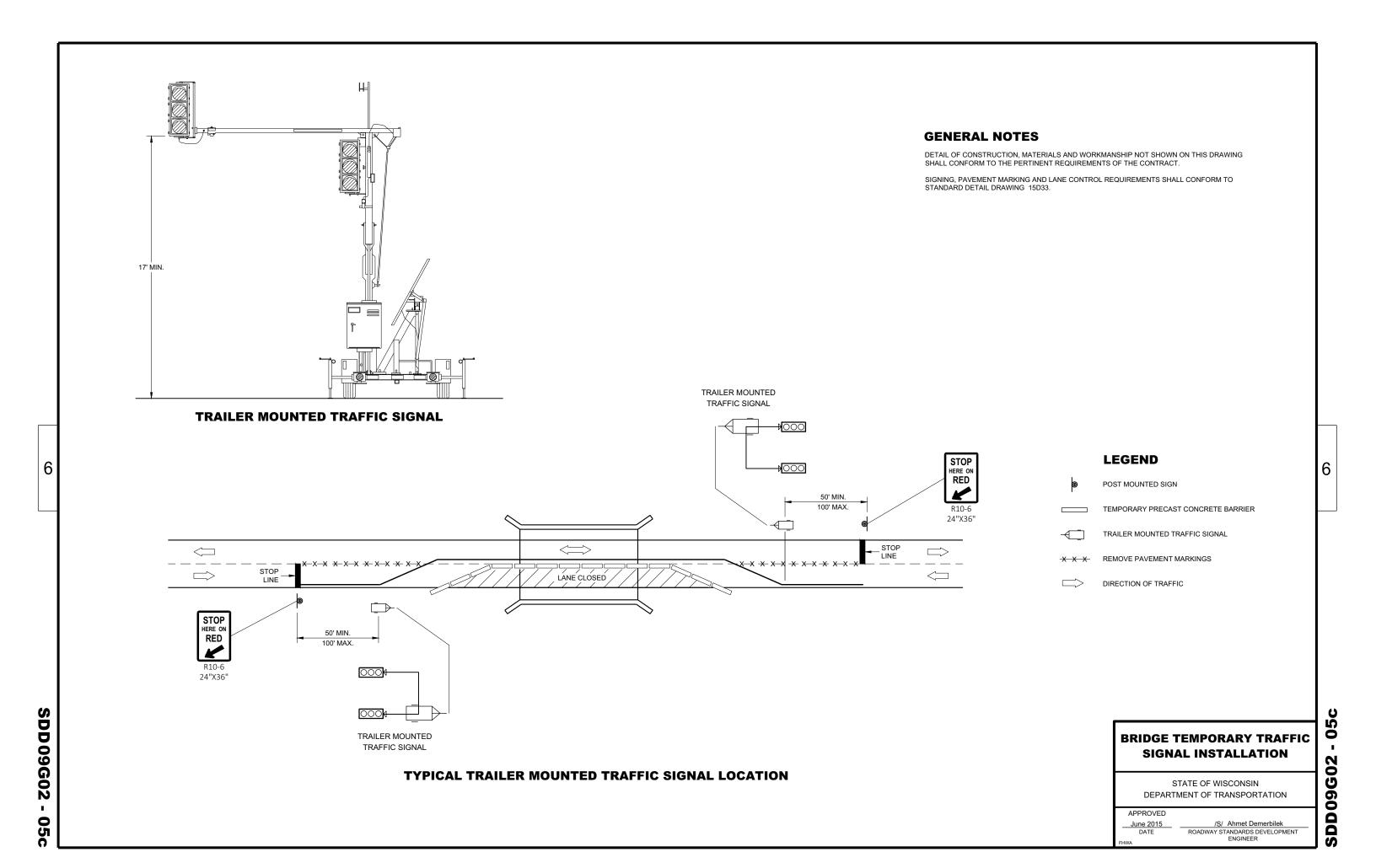
GROUND MOUNT CABINET INSTALLATION

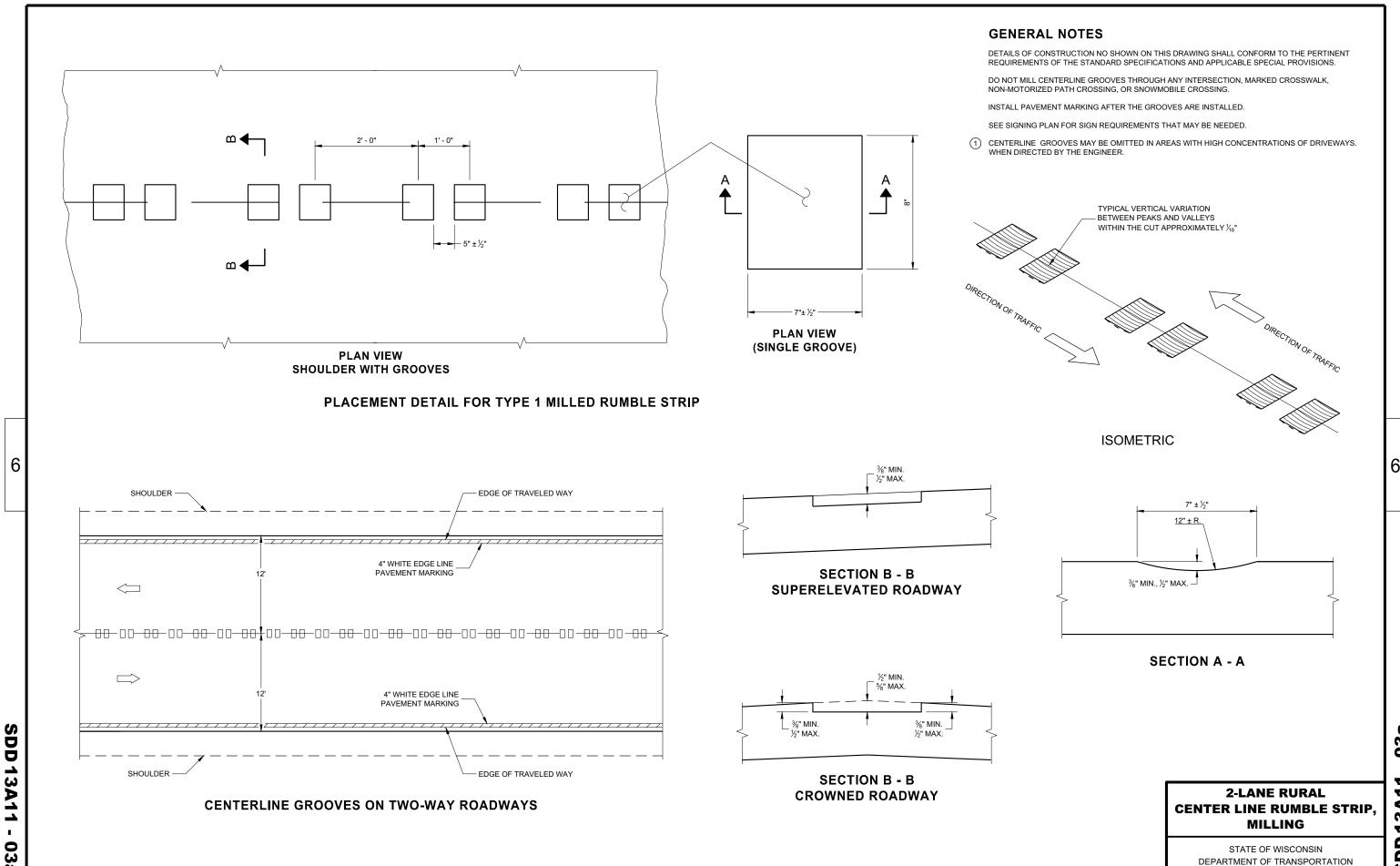
SIGNAL CABLE INSTALLED IN CONDUIT TO CABINET

24" MIN.

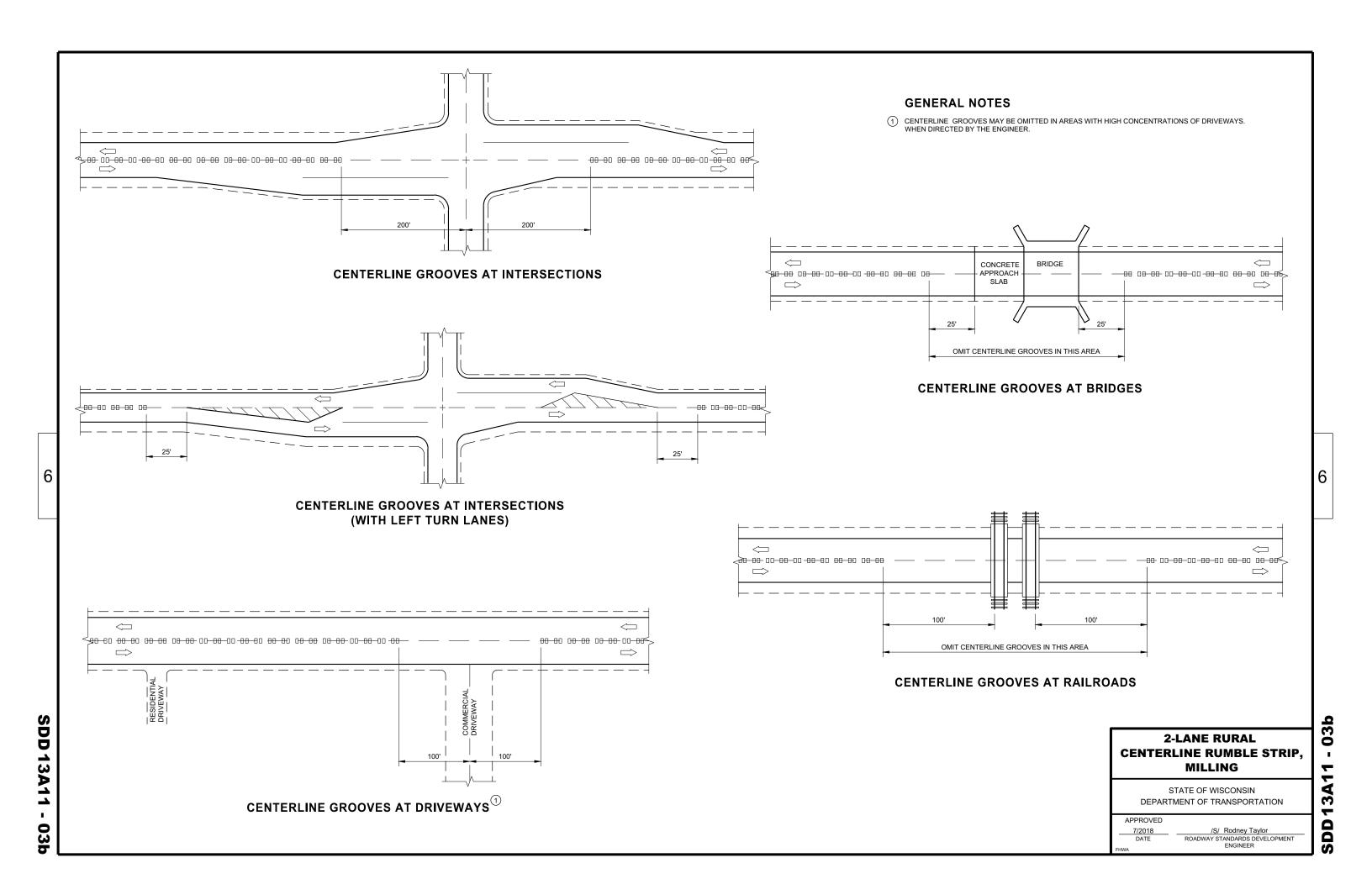
4' X 4" WOOD

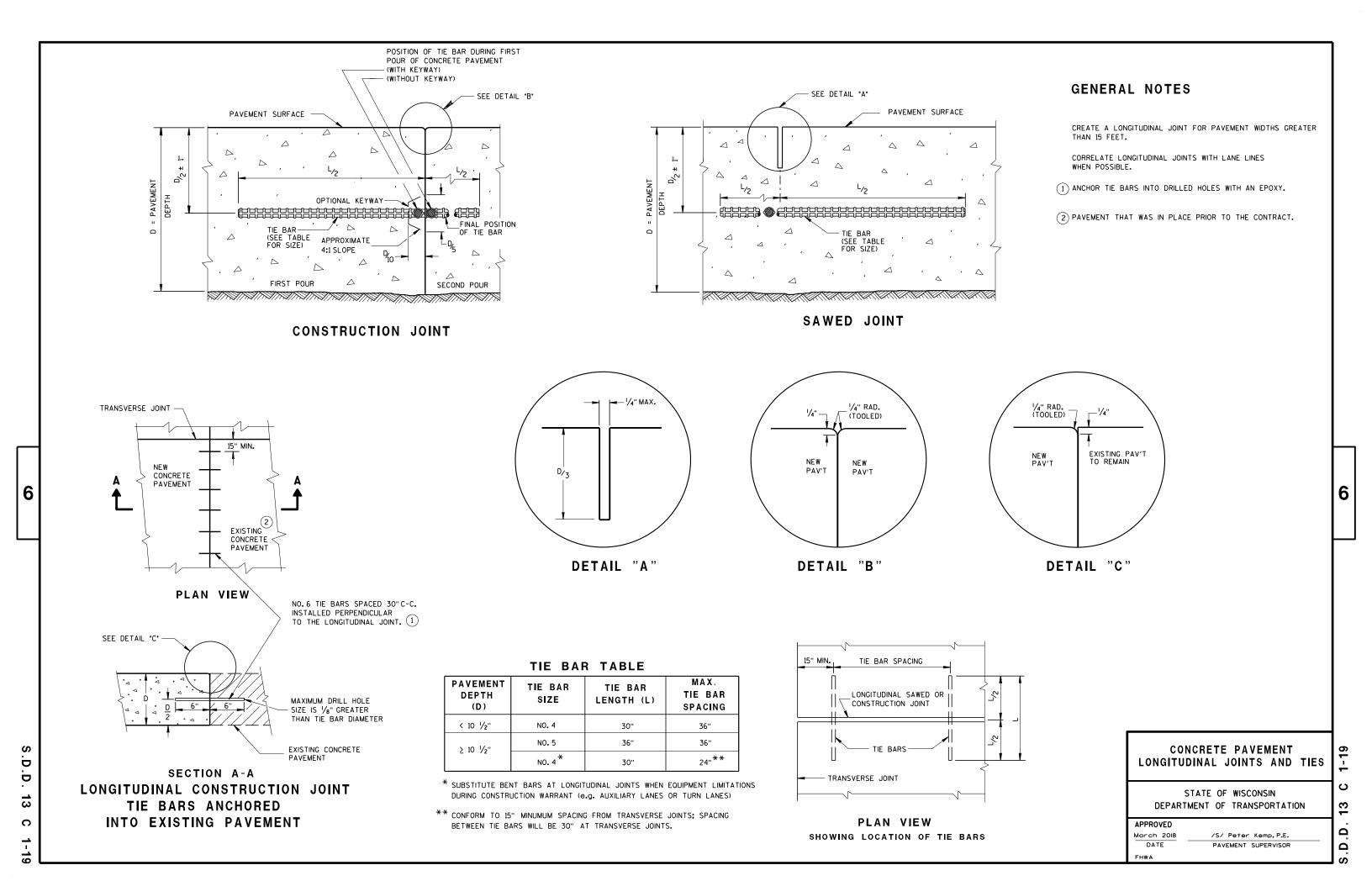






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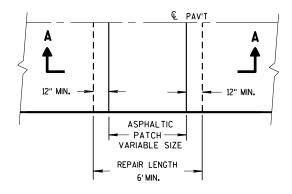




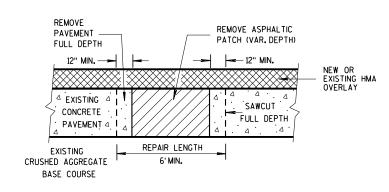
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

1 DOWEL BARS MIGHT NOT EXIST.

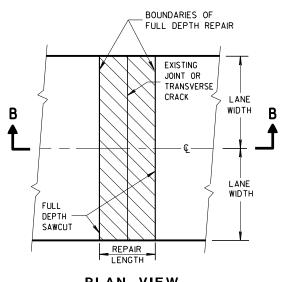


PLAN VIEW

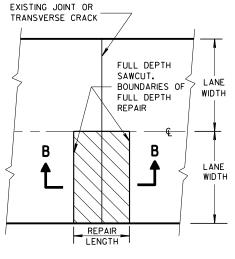


SECTION A-A

HMA PATCH REMOVAL

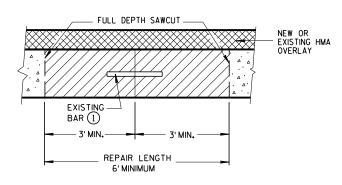


PLAN VIEW (DOUBLE LANE REPAIR)



PLAN VIEW (SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B-B

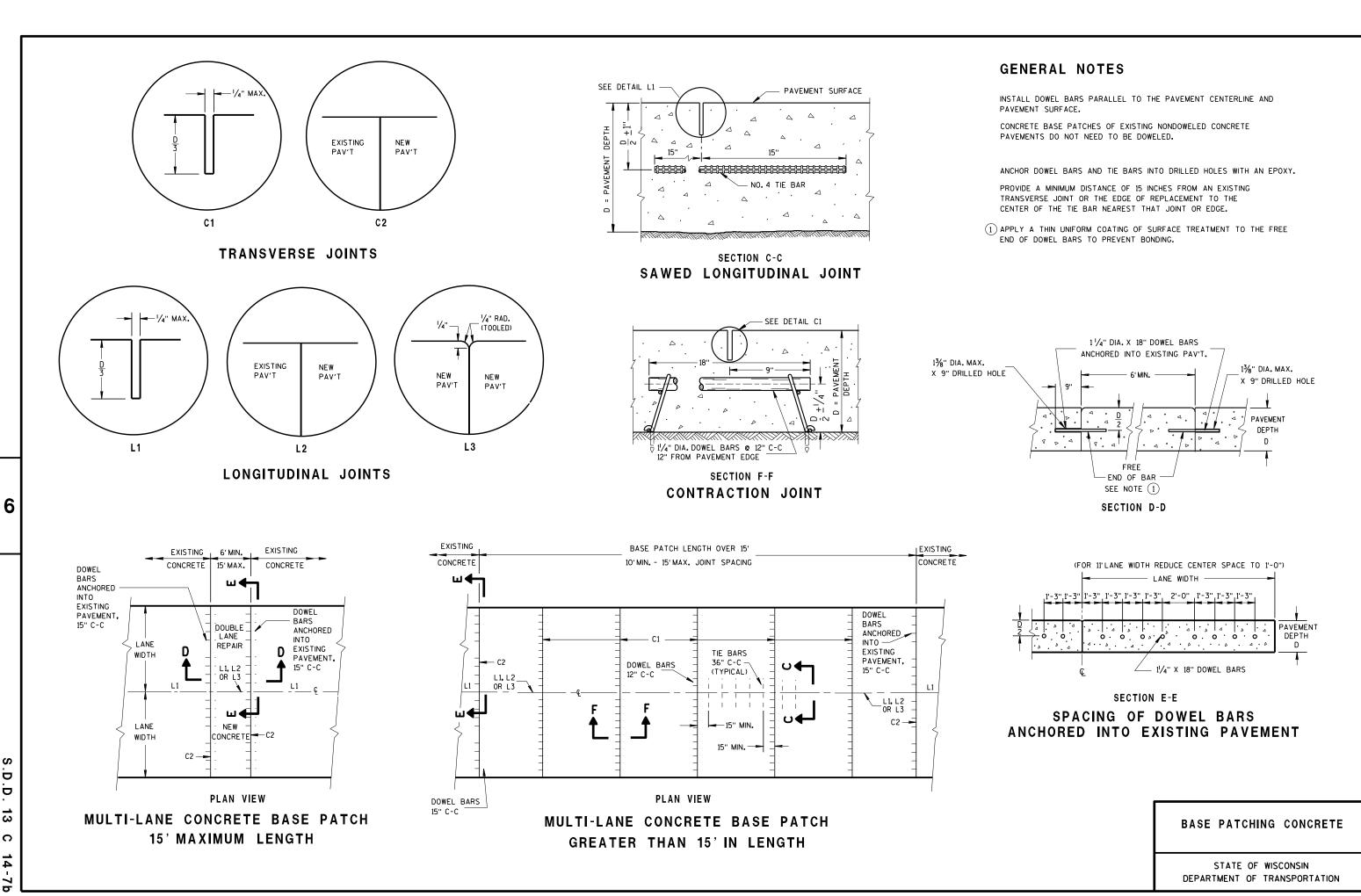
CONCRETE REMOVAL

BASE PATCHING CONCRETE

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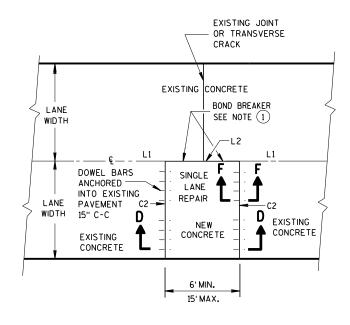
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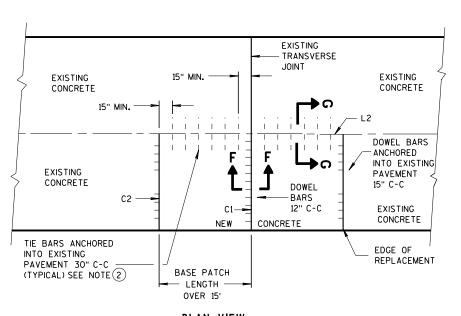
TIE BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH

15' MAXIMUM LENGTH



PLAN VIEW
SINGLE LANE CONCRETE BASE PATCH
GREATER THAN 15' IN LENGTH

GENERAL NOTES

- (1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.
- (2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- (3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

BASE PATCHING CONCRETE

APPROVED

March 2018 /S/ Peter Kemp, P.E.

DATE PAVEMENT SUPERVISOR
FHWA

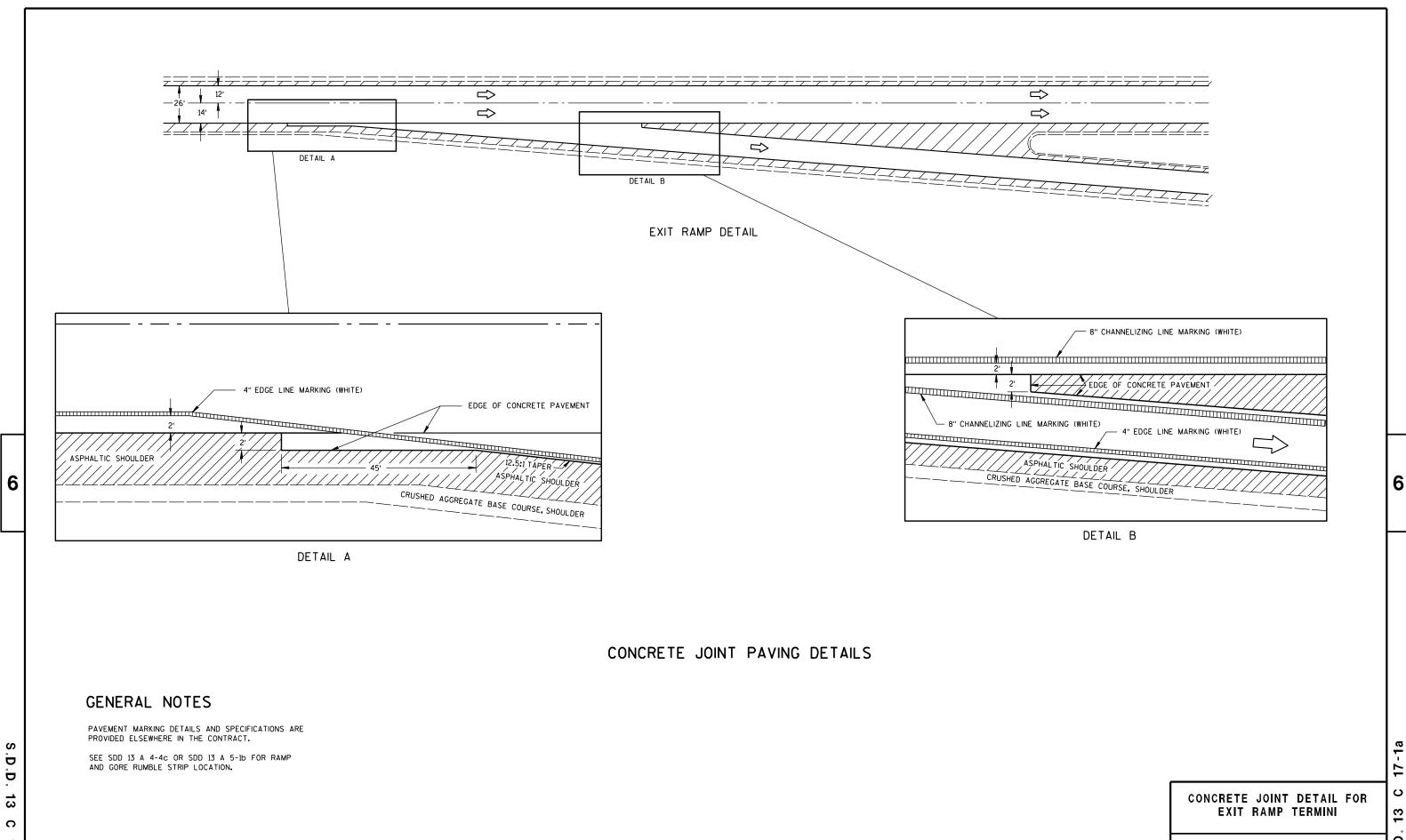
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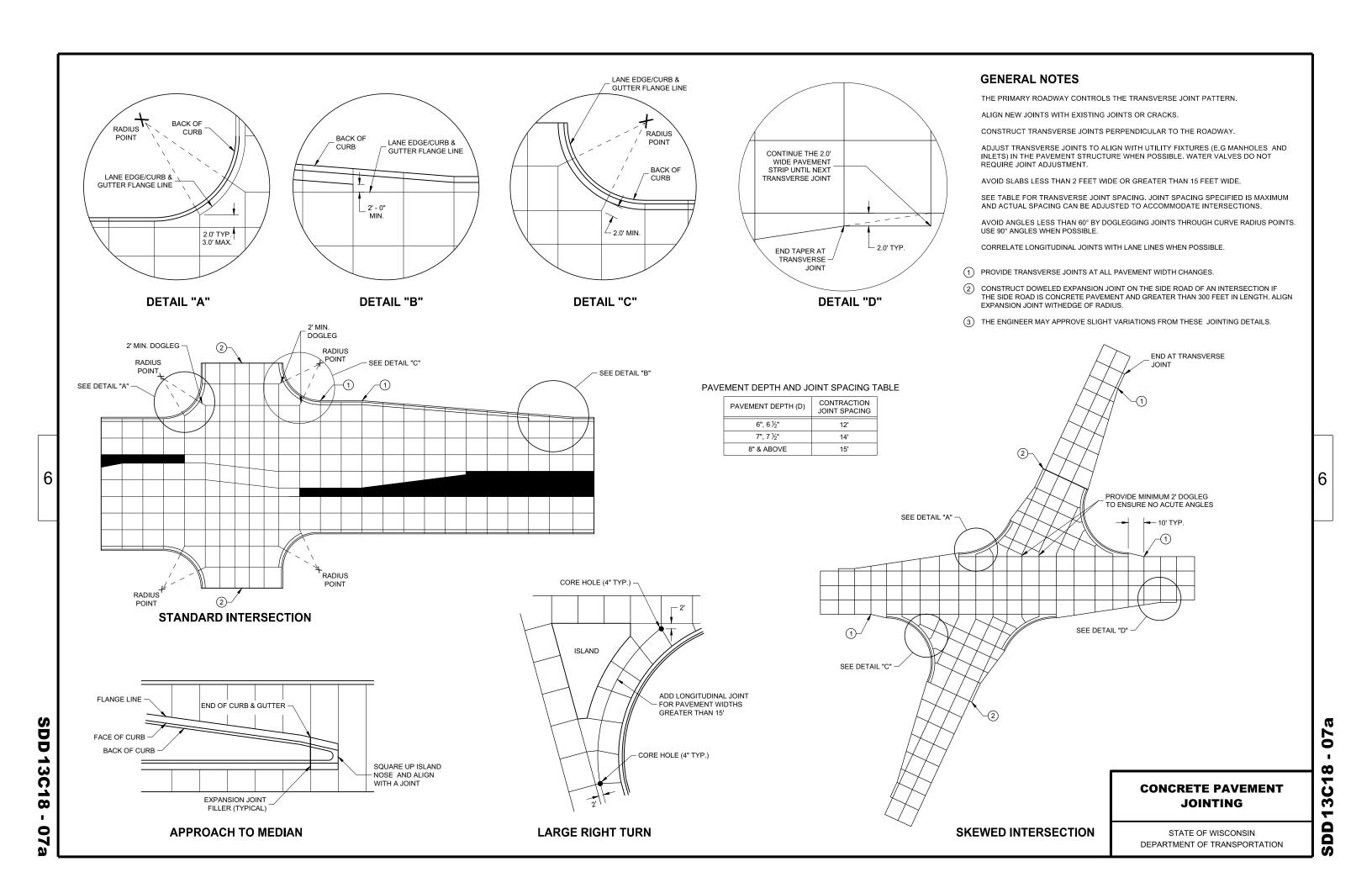
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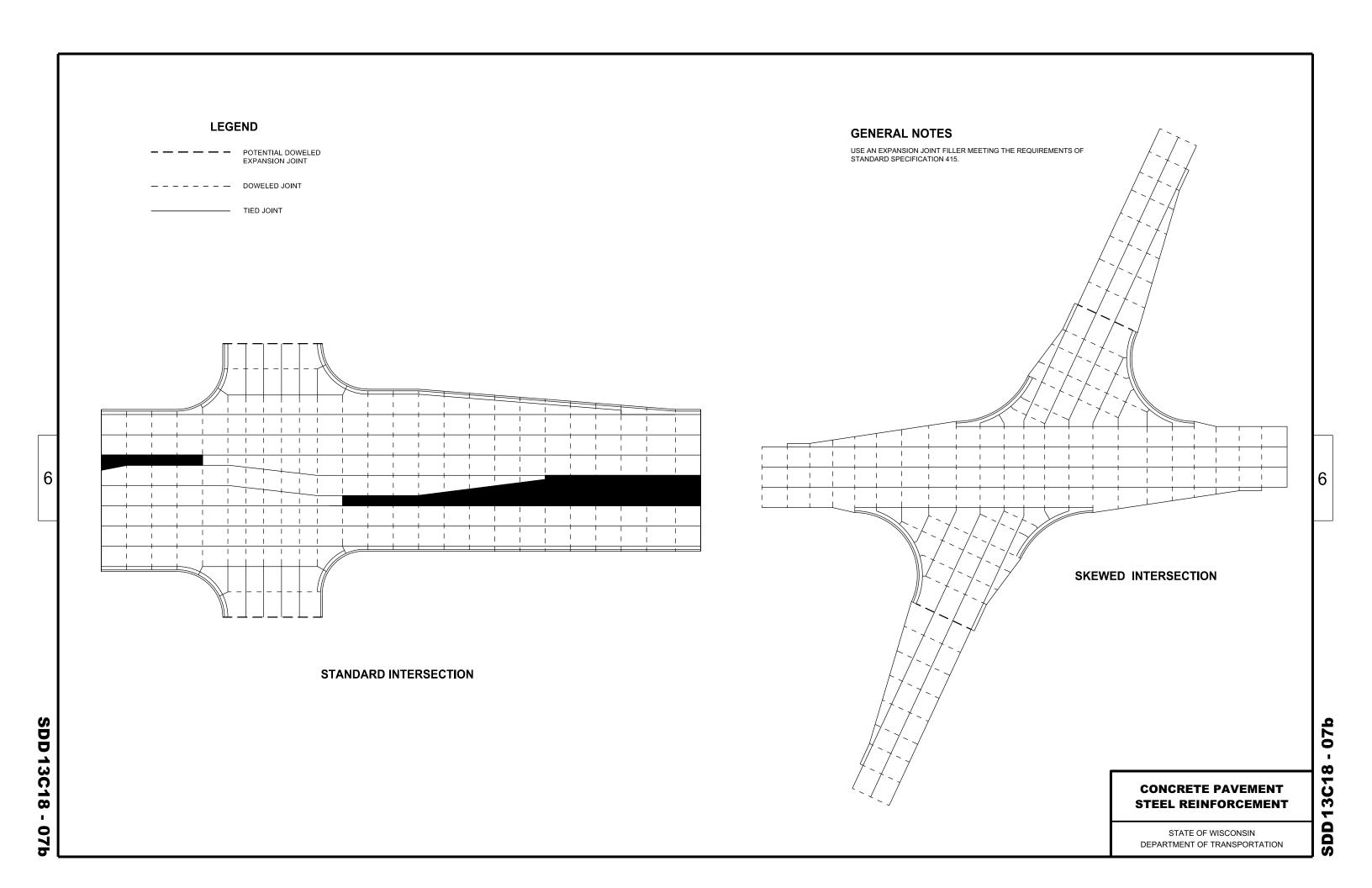
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STATE OF WISCONSIN

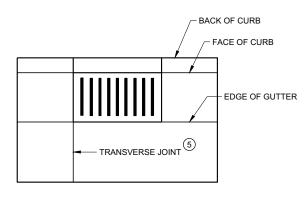
DEPARTMENT OF TRANSPORTATION

NO BOXOUT

OR ISOLATION

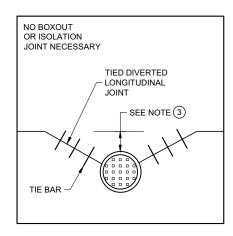
JOINT NECESSARY



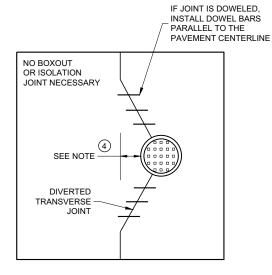


INLET WITH TRANSVERSE JOINT

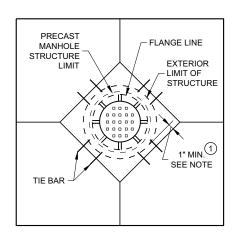
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MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

GENERAL NOTES

- (1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- (3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL, PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- (4) IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

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CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

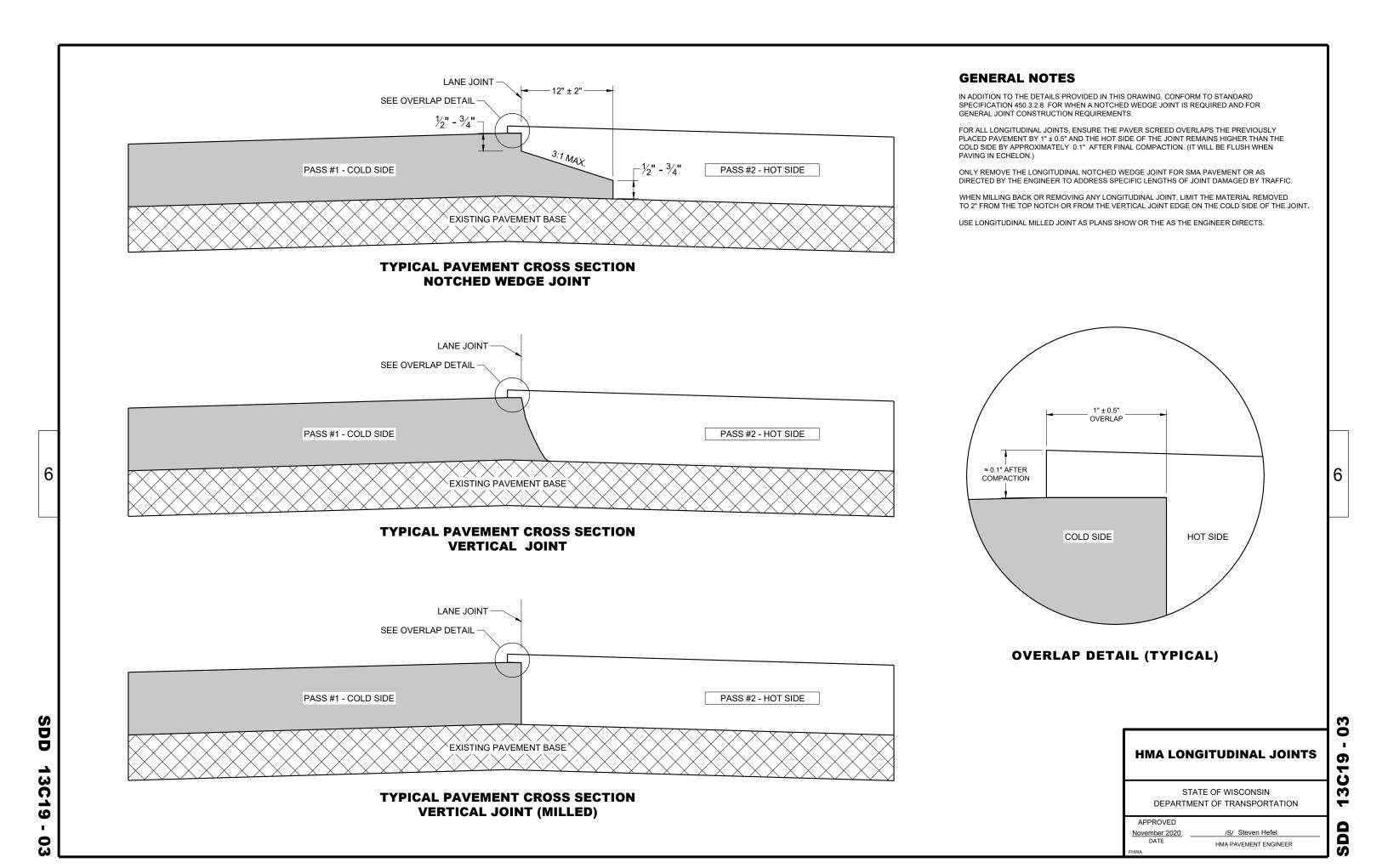
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

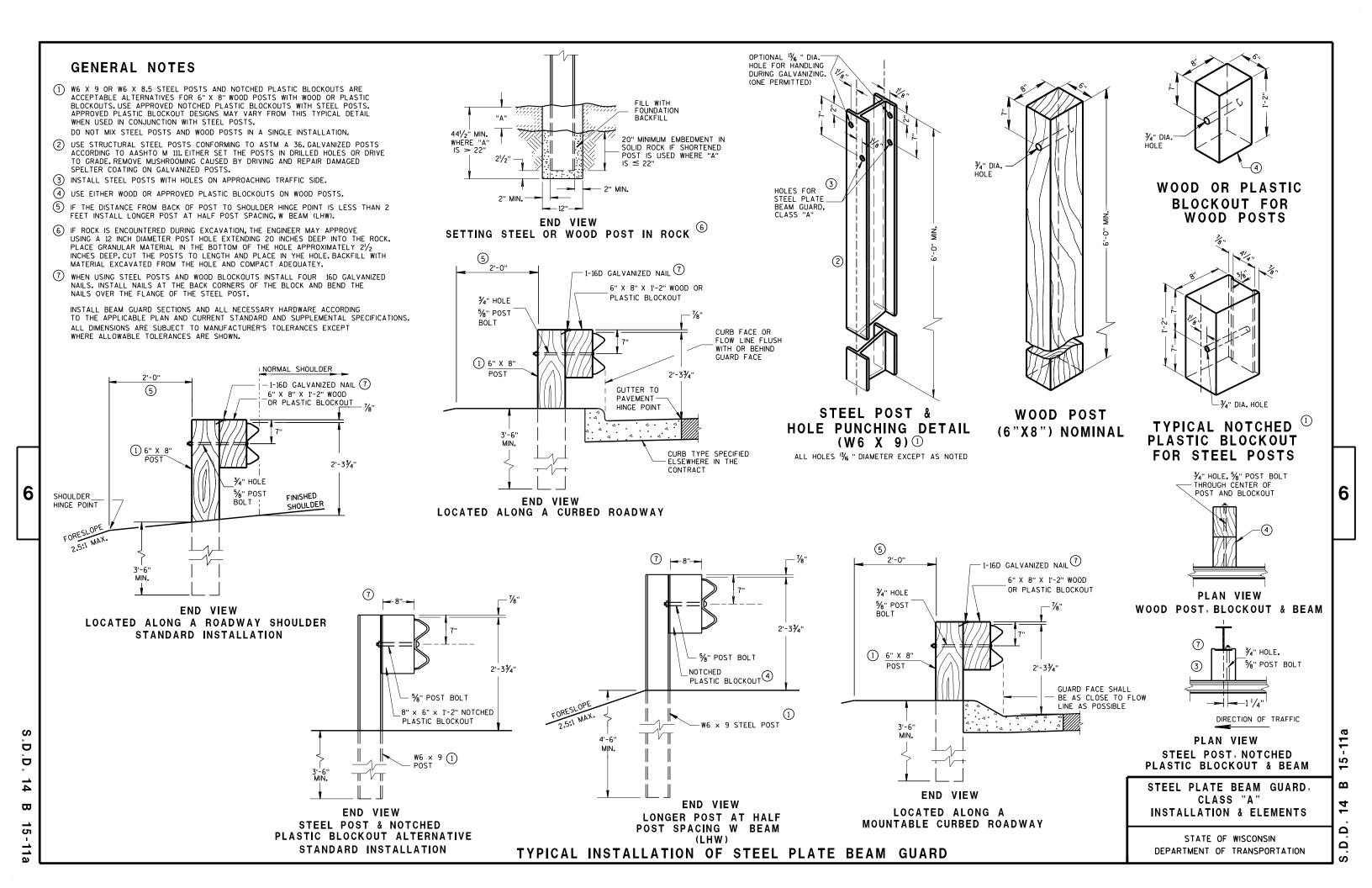
APPROVED

November 2018 /S/ Peter Kemp P.E.

DATE PAVEMENT SUPERVISOR

SDD 13C18 - 07c





FRONT VIEW

POST SPACING STANDARD INSTALLATION

12'-6" OR 25'-0" EFFECTIVE LENGTH OF BEAM

3'-1¹/₂" C-C

SPACING

3'-1¹/₂" C-C

POST

SPACING

DIRECTION OF

3'-11/2" C-C

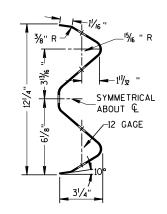
SPACING

3'-11/2" C-C

SPACING

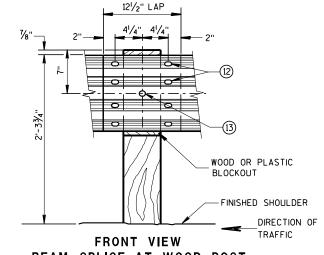
FINISHED

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN), USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



SECTION THRU W BEAM

 $\frac{3}{4}$ " × $2\frac{1}{2}$ " POST BOLT SLOT



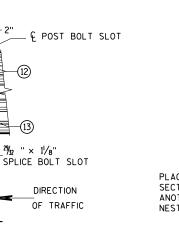
BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

121/2" LAP

GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

- (9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA, START REFLECTORS AT POST *9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- (12) 8 1/8" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- (13) 5%" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5%" DIA. F844 FLAT WASHER UNDER NUT.



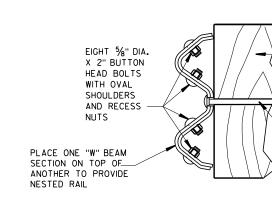
FRONT VIEW BEAM SPLICE AT STEEL POST

NOTCHED

PLASTIC

BLCKOUT

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



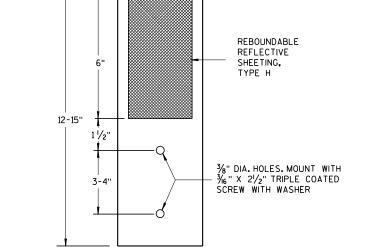
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

SHOULDER TRAFFIC FRONT VIEW POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)

GUARDRAIL REFLECTOR 9 DIRECTION OF TRAFFIC

4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *



3-4"-

2%2 " × 11/8"

4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", **INSTALLATION & ELEMENTS**

6" X 8" X 1'-2" WOOD OR PLASTIC

BLOCKOUT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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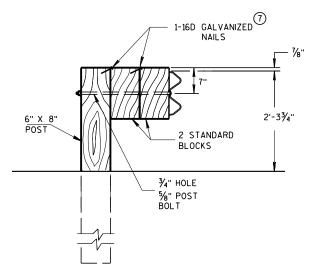
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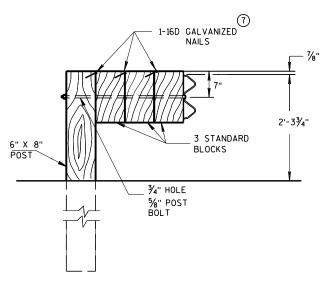
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DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

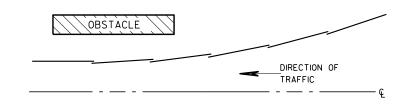


DETAIL FOR TRIPLE BLOCKS

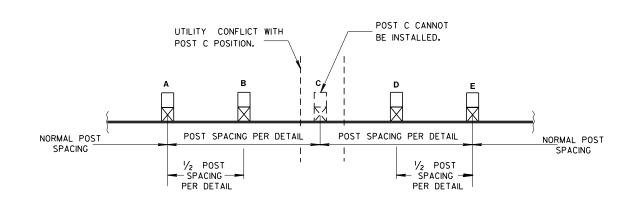
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017

DATE

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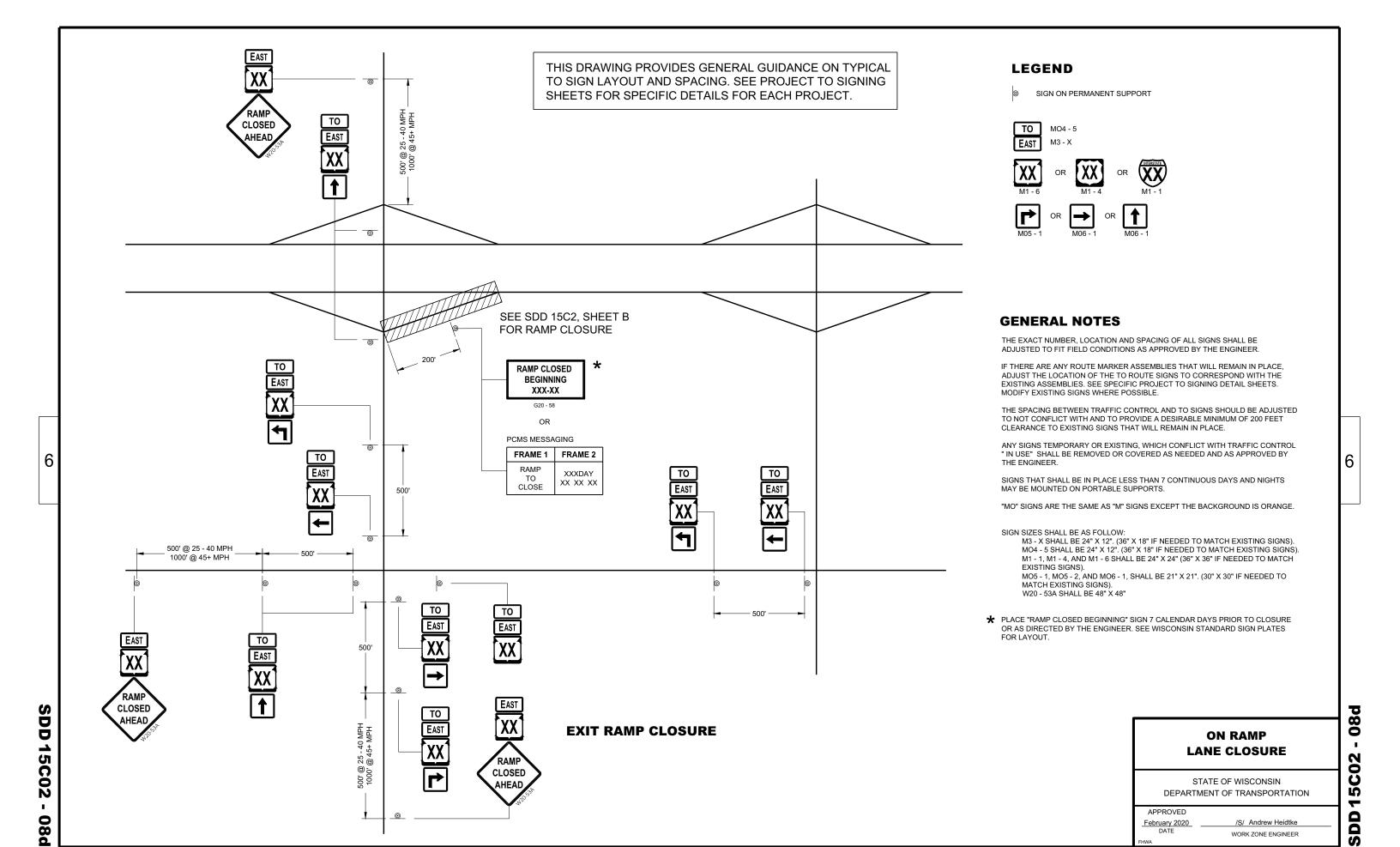
/S/ Rodney Taylor

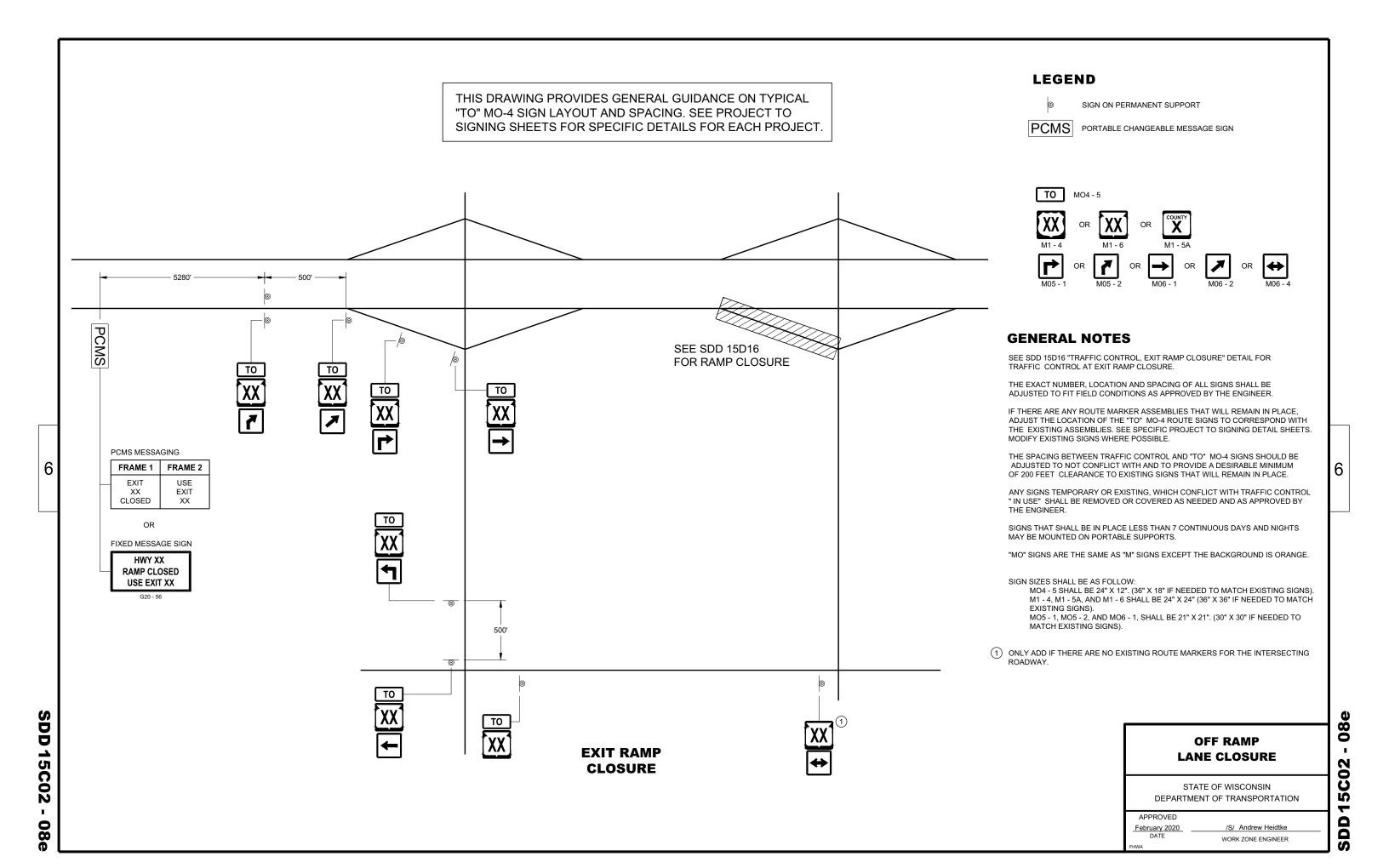
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

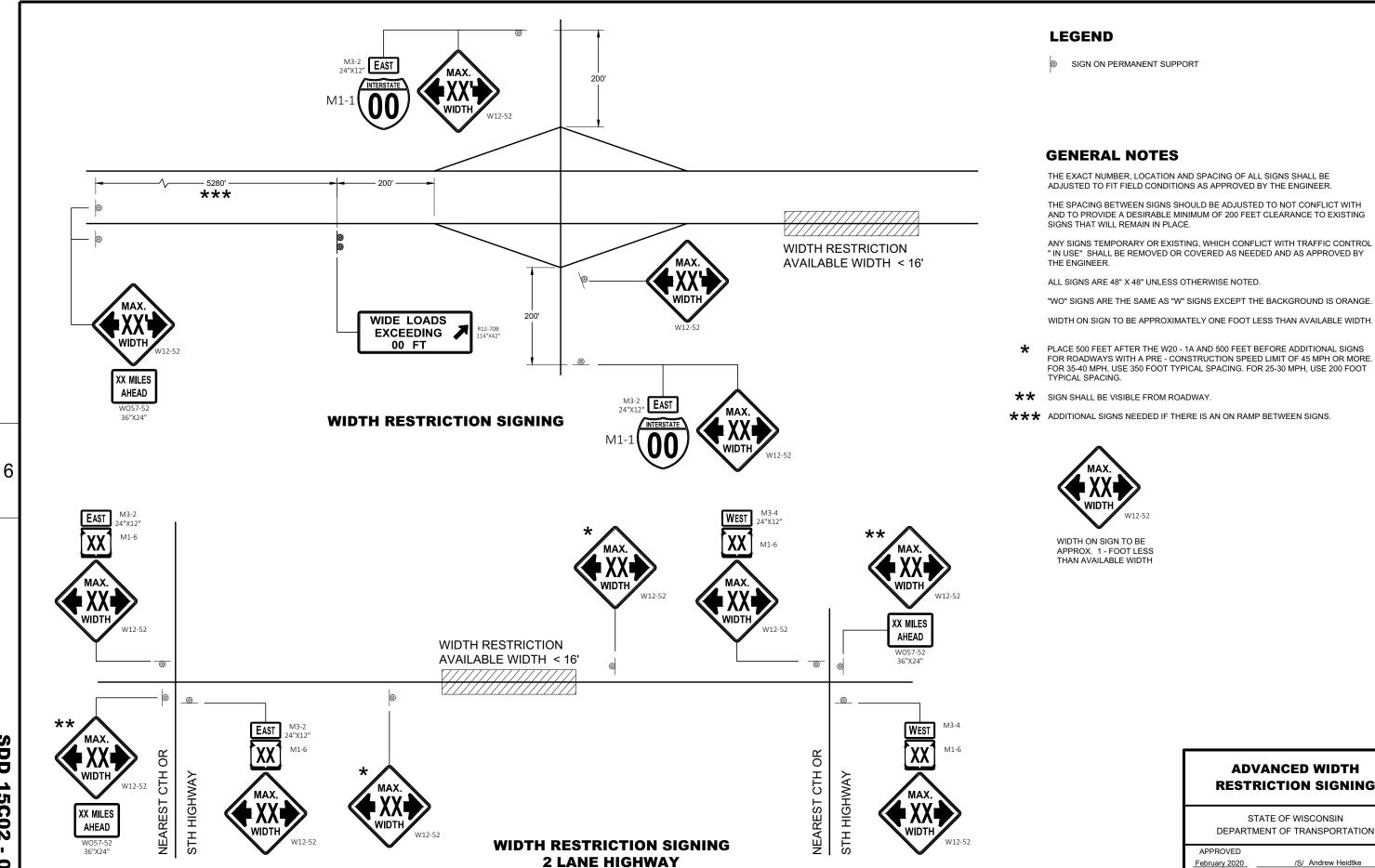
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AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING

"IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

ADVANCED WIDTH RESTRICTION SIGNING

08

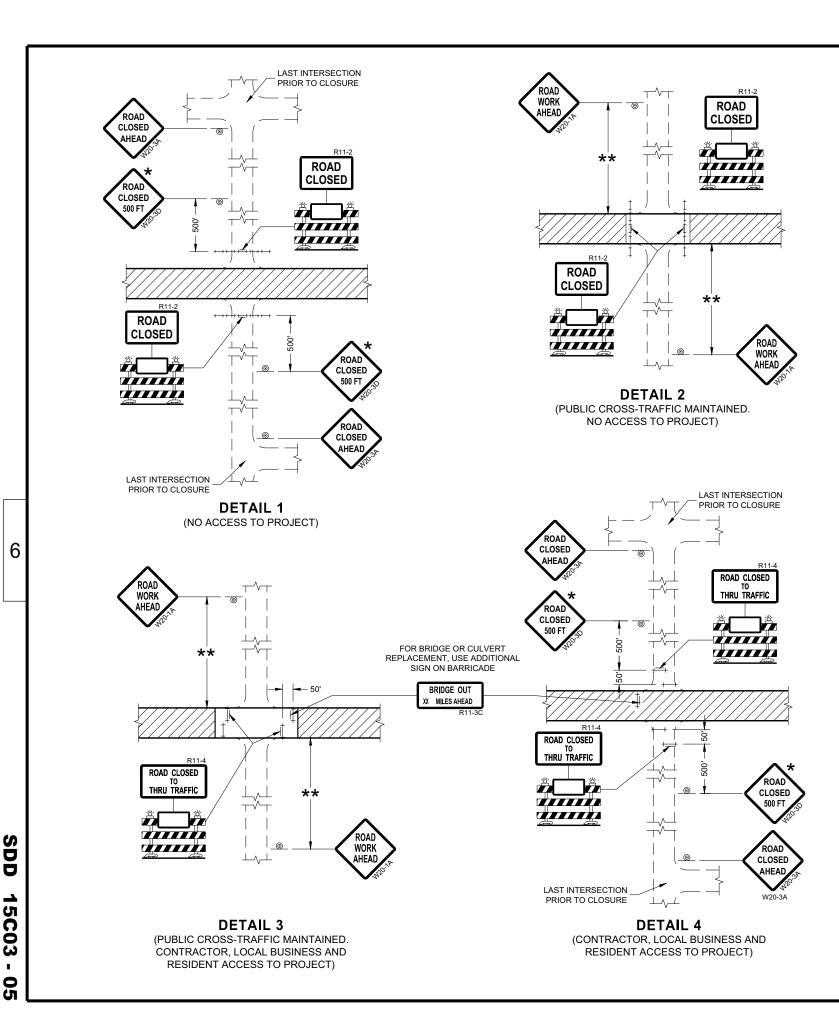
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

SDD 15C02 08f



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

 $\begin{tabular}{l} FA "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED. \\ \end{tabular}$

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN

 ${\tt TOWARD\ THE\ TRAFFIC\ SIDE\ OR\ AS\ SHOWN\ IN\ THE\ ROAD\ CLOSURE\ BARRICADE\ DETAIL\ "D"\ FOR\ FULL\ ROAD\ CLOSURES.}$

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-4 AND R11-3 SHALL BE 60" X 30".

- ★ OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

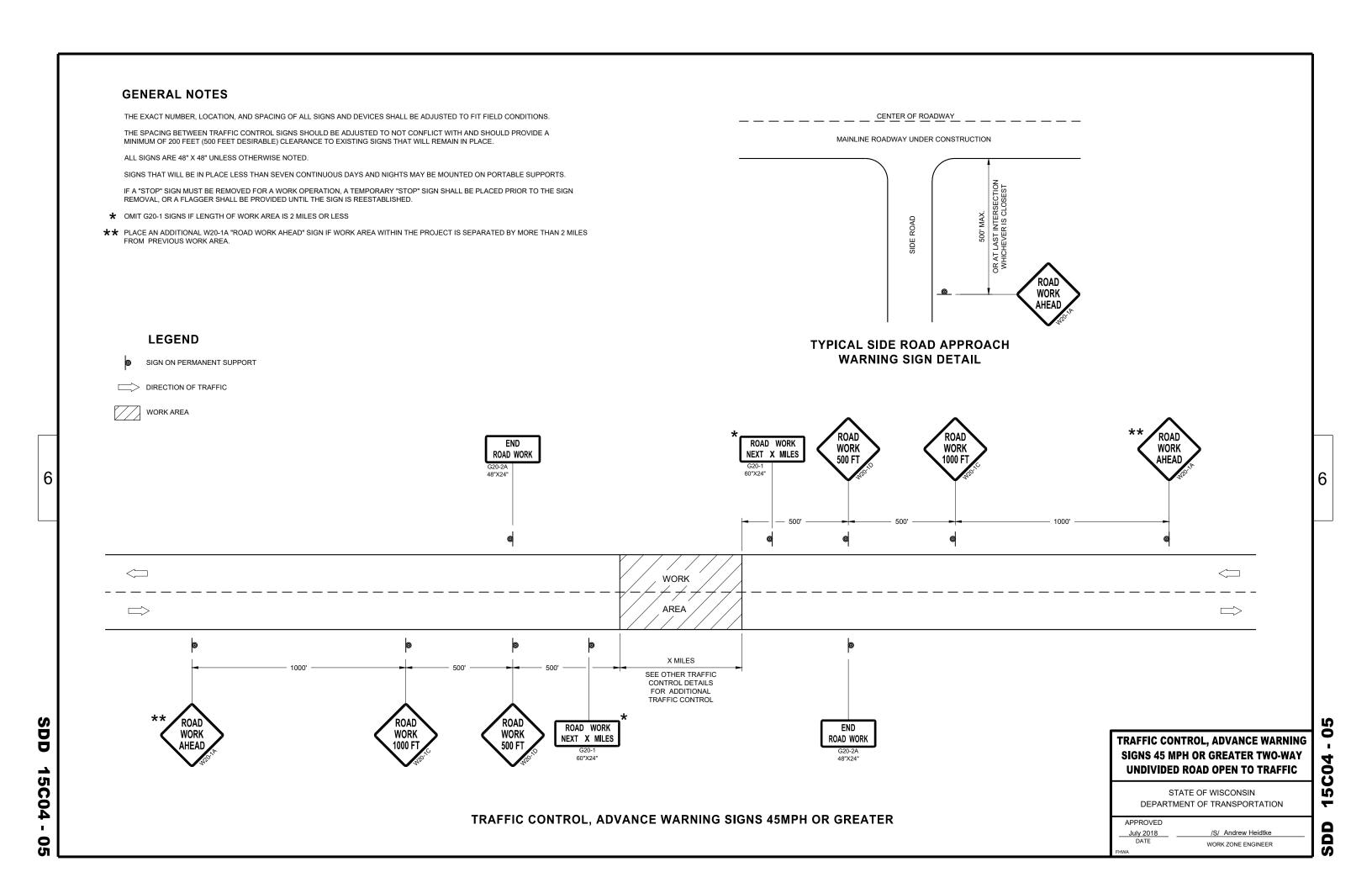
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

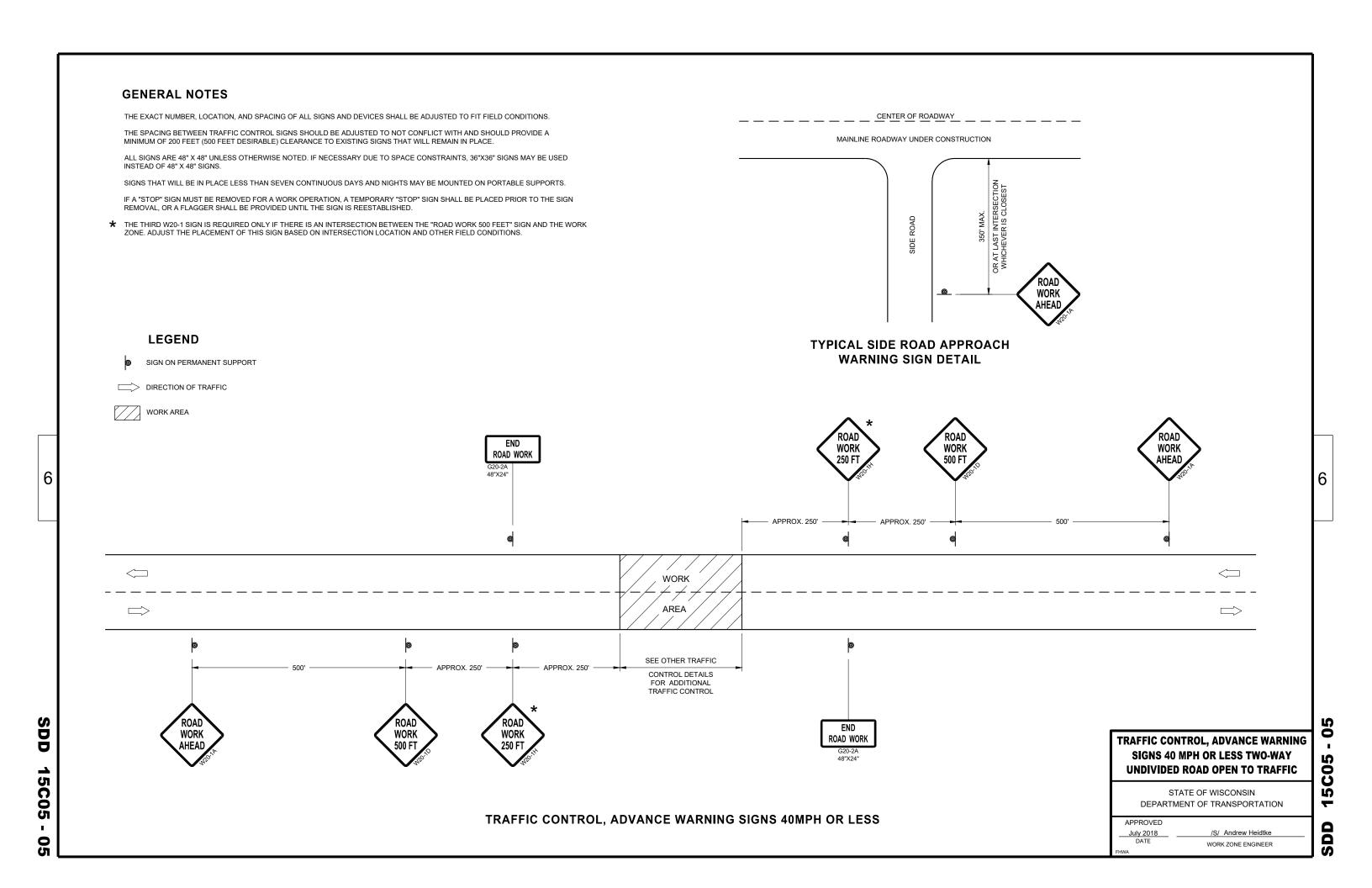
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

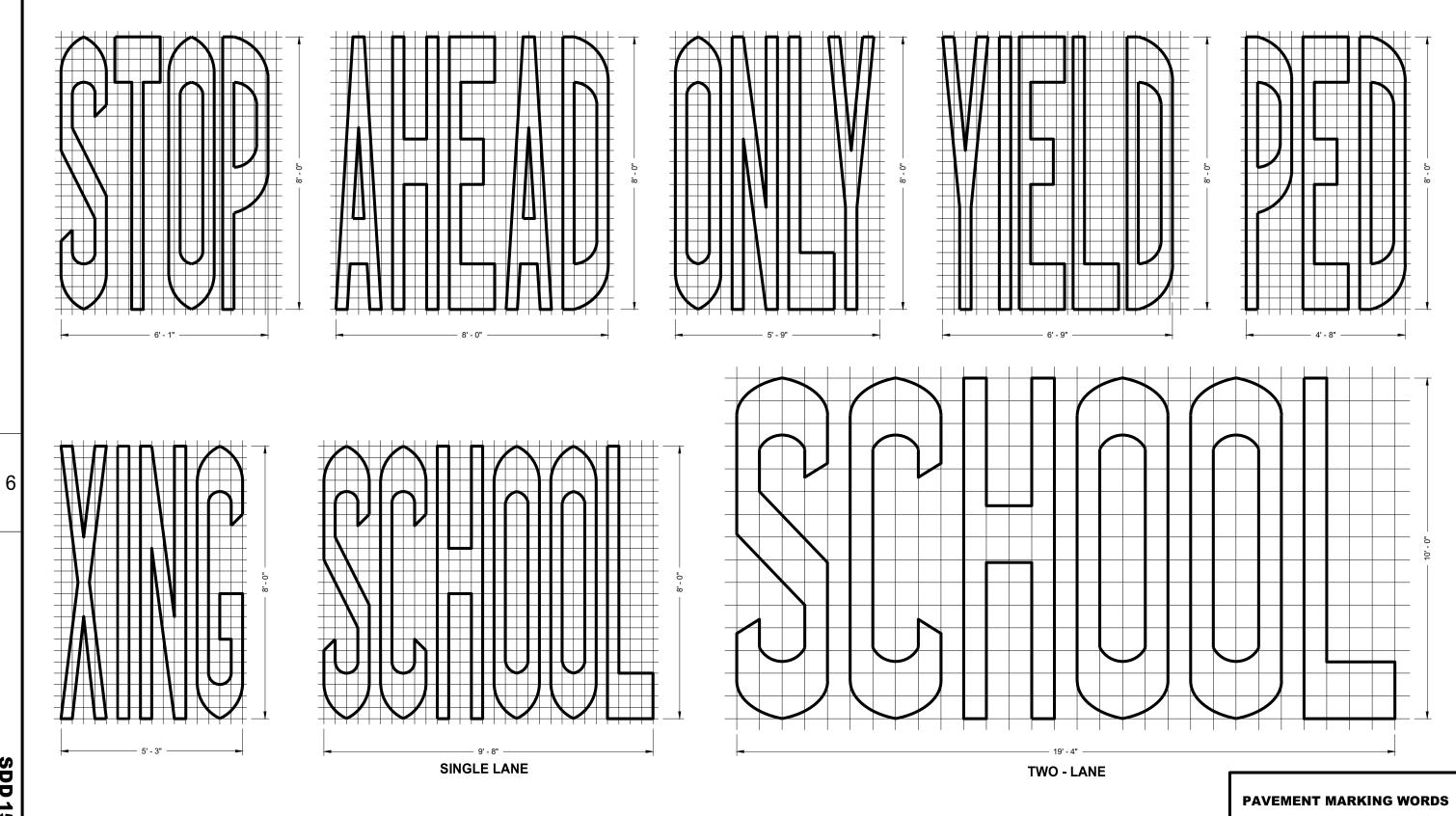
 APPROVED
 /S/ Andrew Heidtke

 July 2018
 /S/ Andrew Heidtke

 DATE
 WORK ZONE ENGINEER







SDD 15C07 - 15b

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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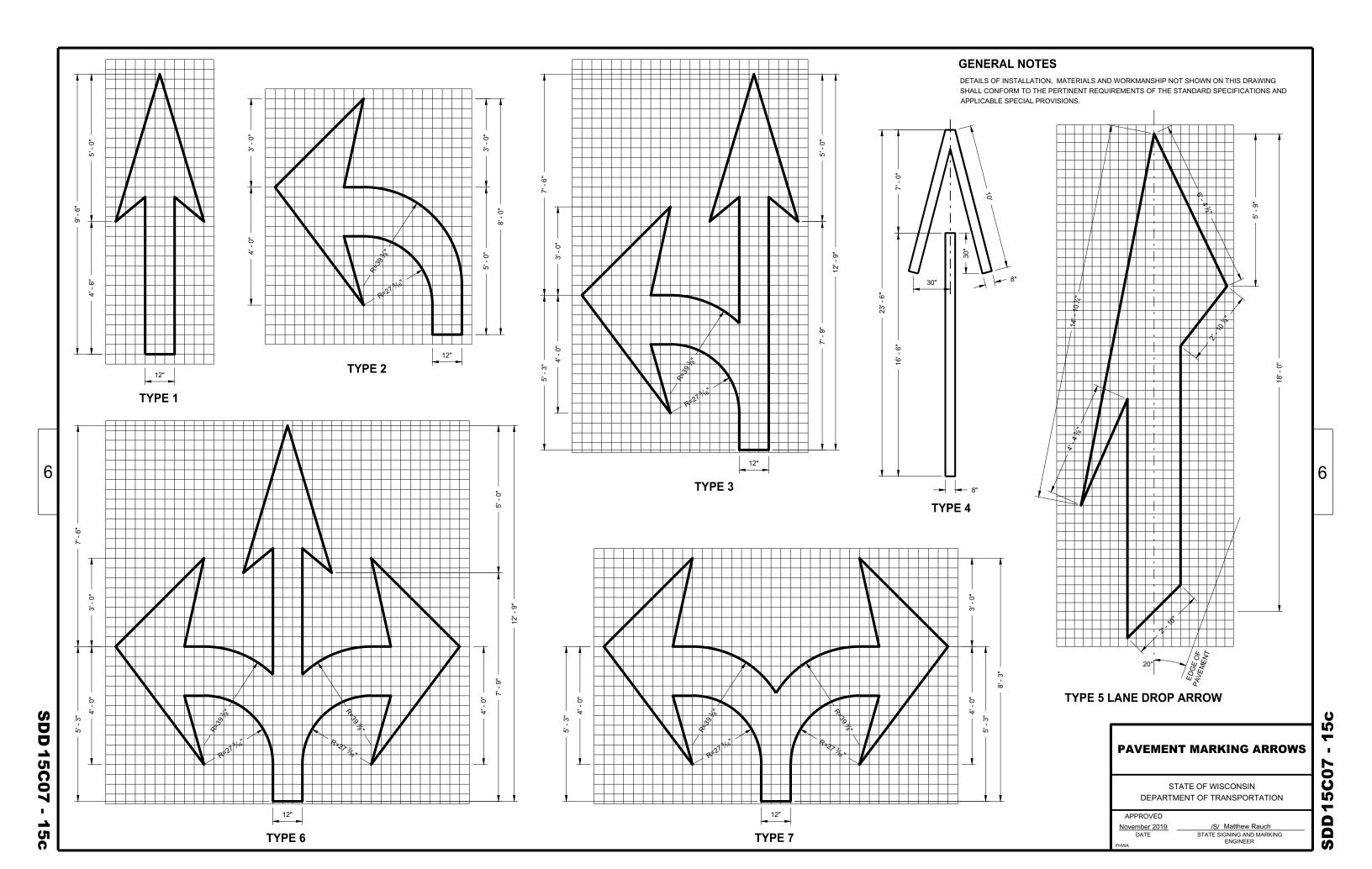
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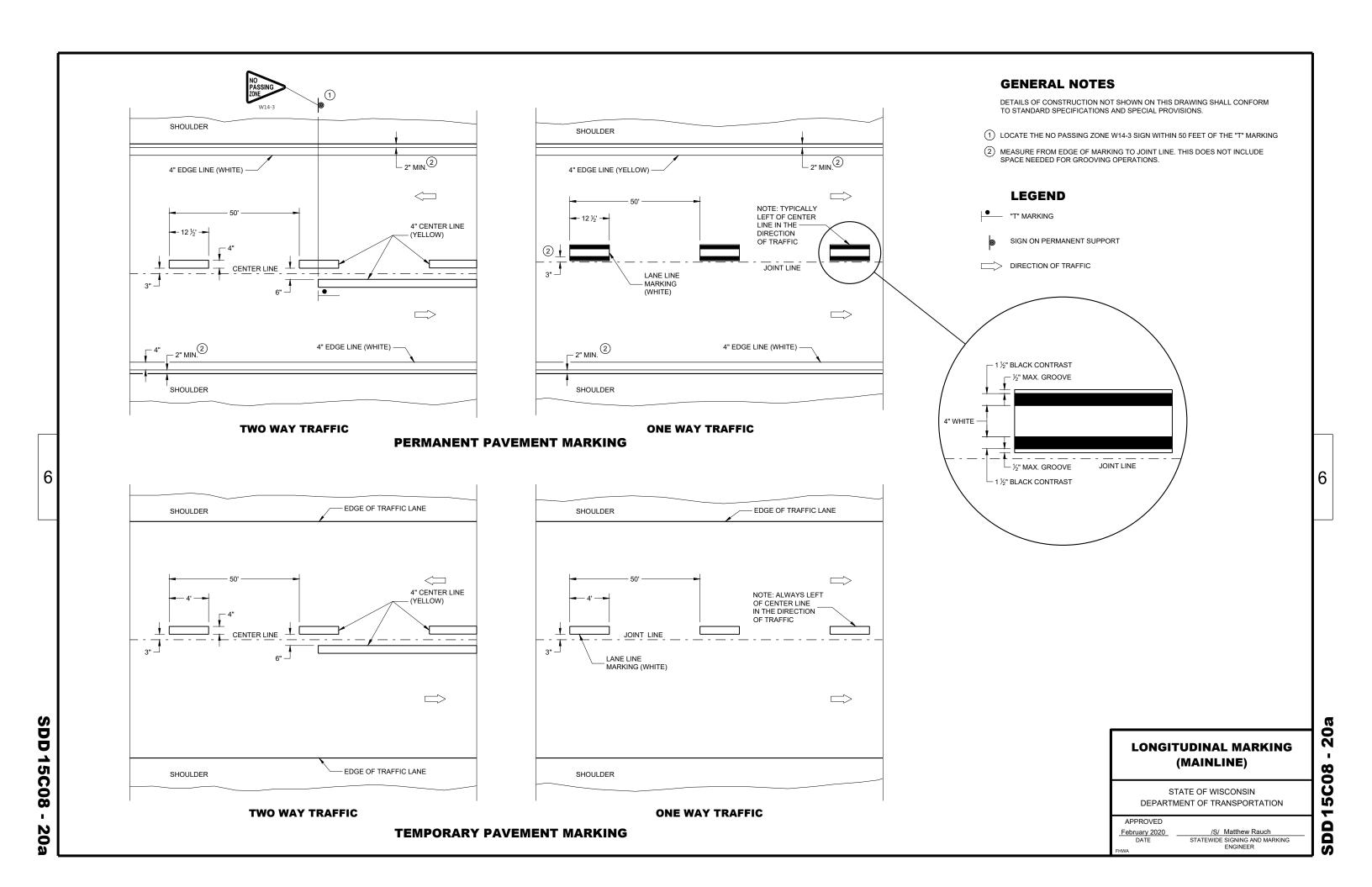
SDD15C07

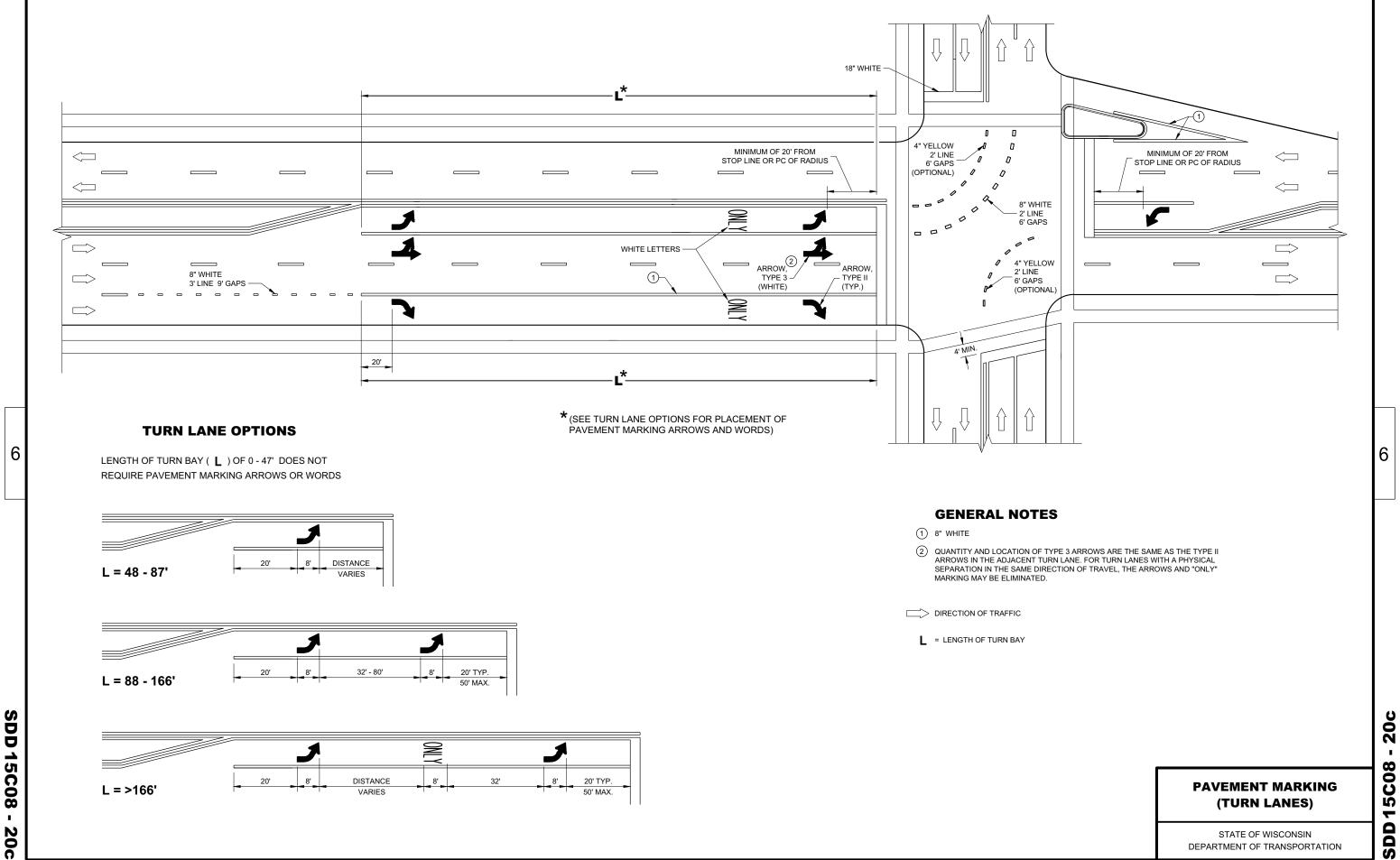
APPROVED

 November 2019
 /S/ Matthew Rauch

 DATE
 STATE SIGNING AND MARKING ENGINEER





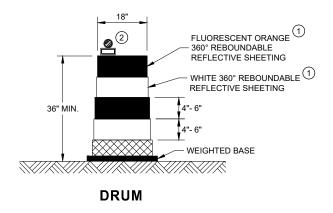


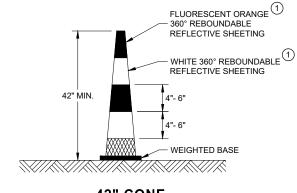
DEPARTMENT OF TRANSPORTATION

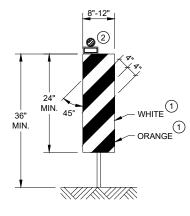
<u>60</u> 15C

GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



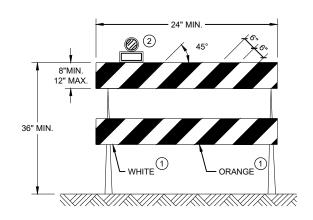




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

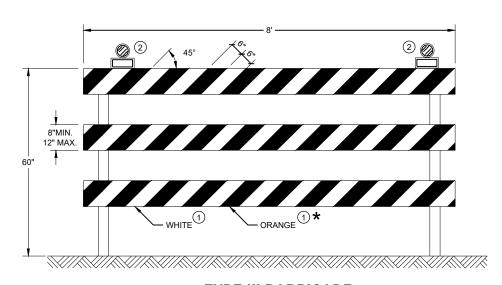
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

RUMBLE

STRIPS

ROAD

WORK

GENERAL NOTES FLAGGING LEGEND DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH SIGN ON PORTABLE OR STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 350' 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

FLAGGING OPERATION STATE OF WISCONSIN

2

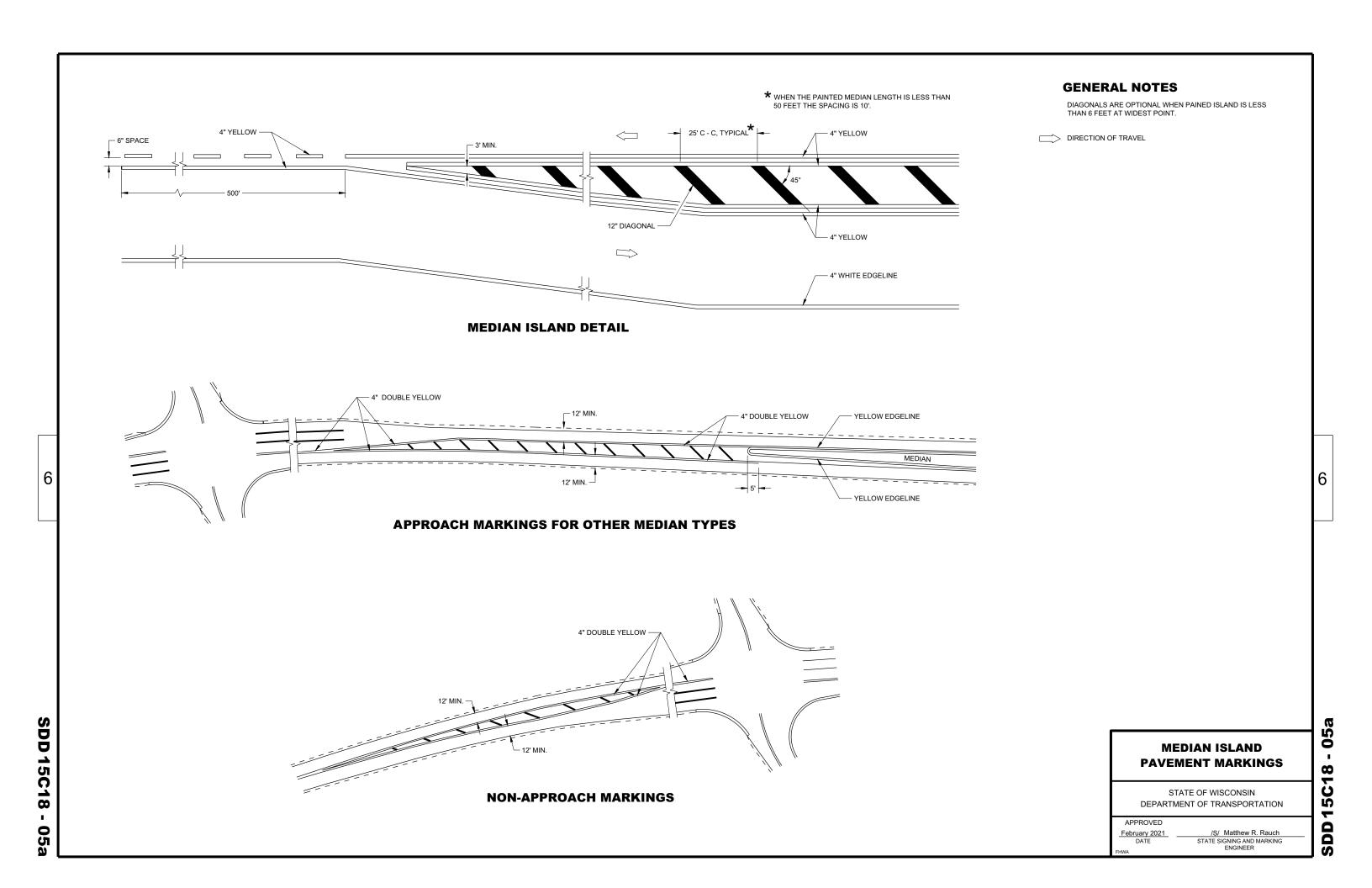
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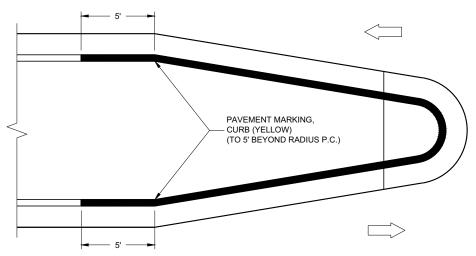
TRAFFIC CONTROL FOR

LANE CLOSURE WITH

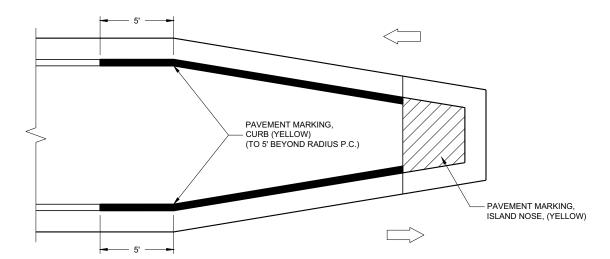
DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE WORK ZONE ENGINEER





MEDIAN ISLAND WITH ROUND BLUNT NOSE



TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

MEDIAN ISLAND WITH SLOPED NOSE

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

0

5C18

SDD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021 /S/ Matthew R. Rauch

DATE STATE SIGNING AND MARKING
ENGINEER

PAVEMENT MARKING

LEFT TURN & MEDIAN ISLAND

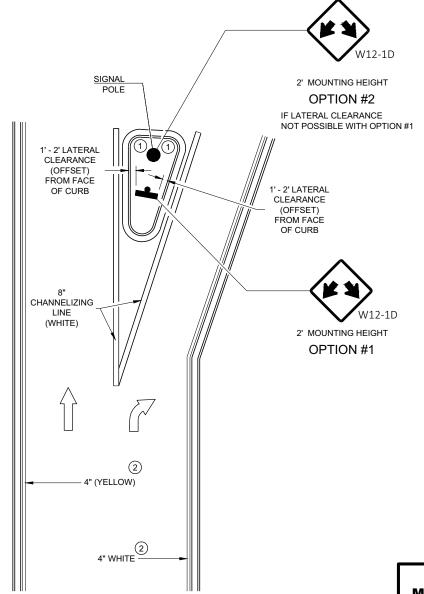
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

- (1) MARK CURB NOSES YELLOW.
- (2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT
MARKINGS, DOUBLE ARROW
WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING
ENGINEER

SDD 15C18 - 05c

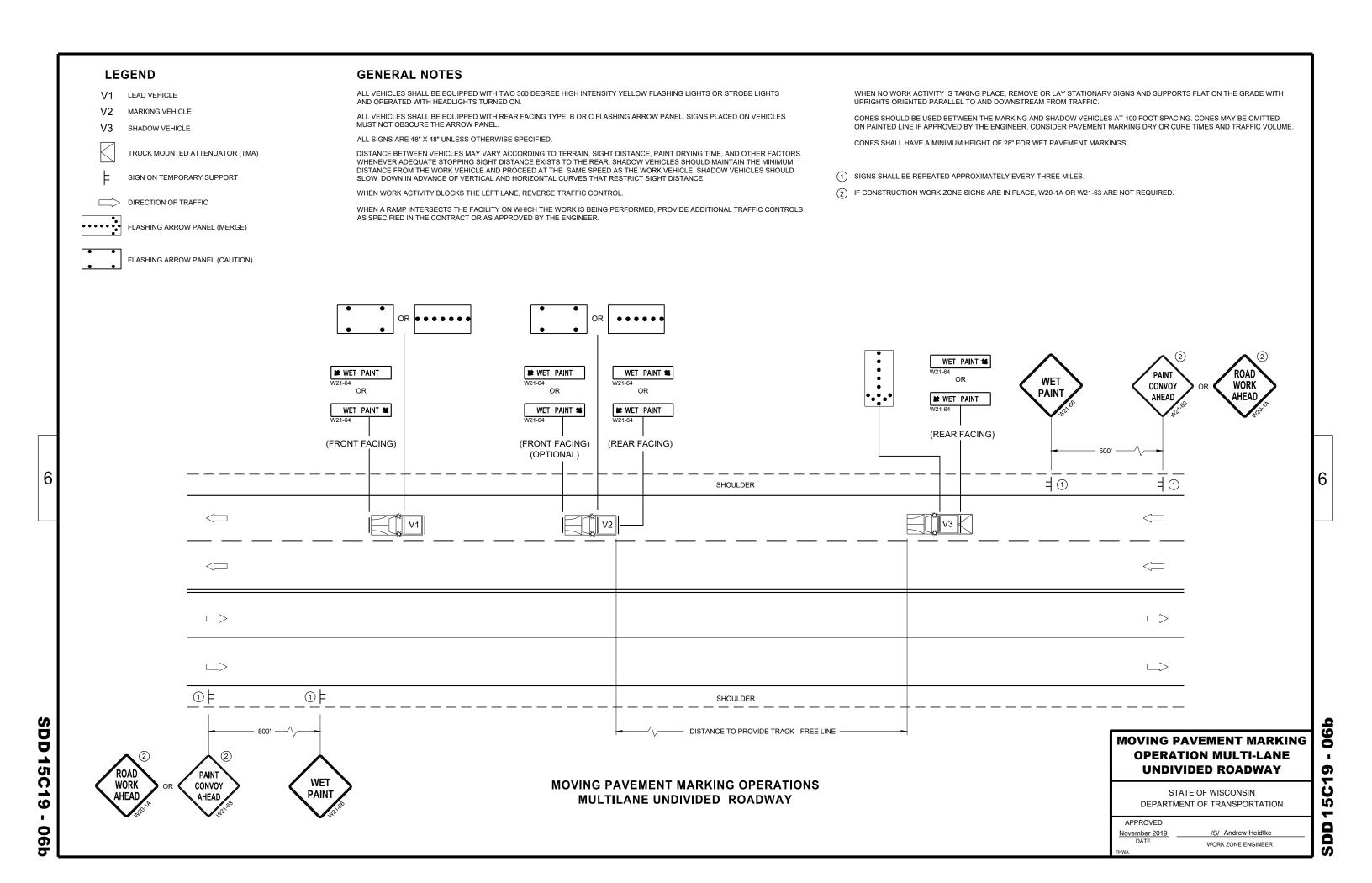
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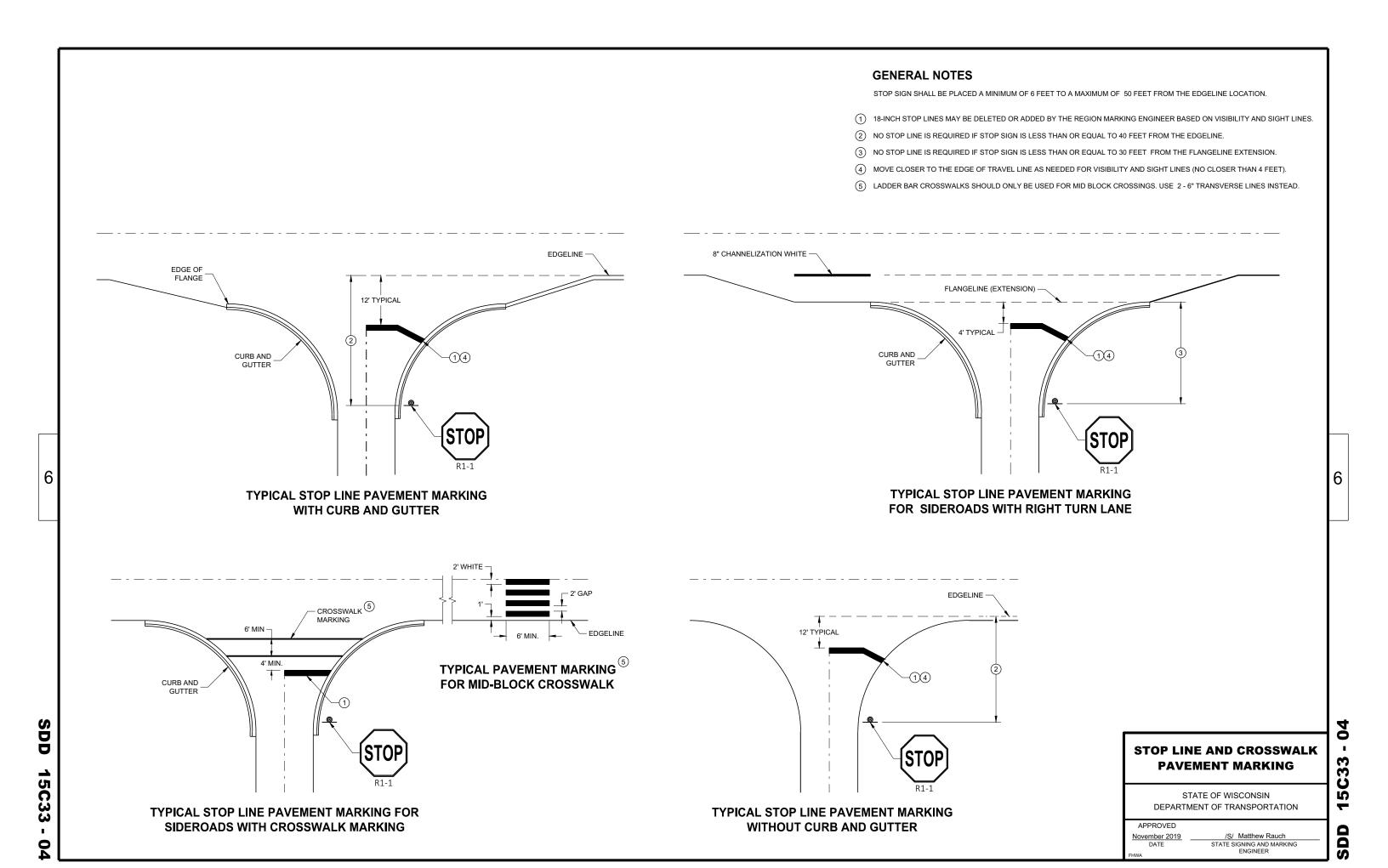
SDD 15C18 - 0

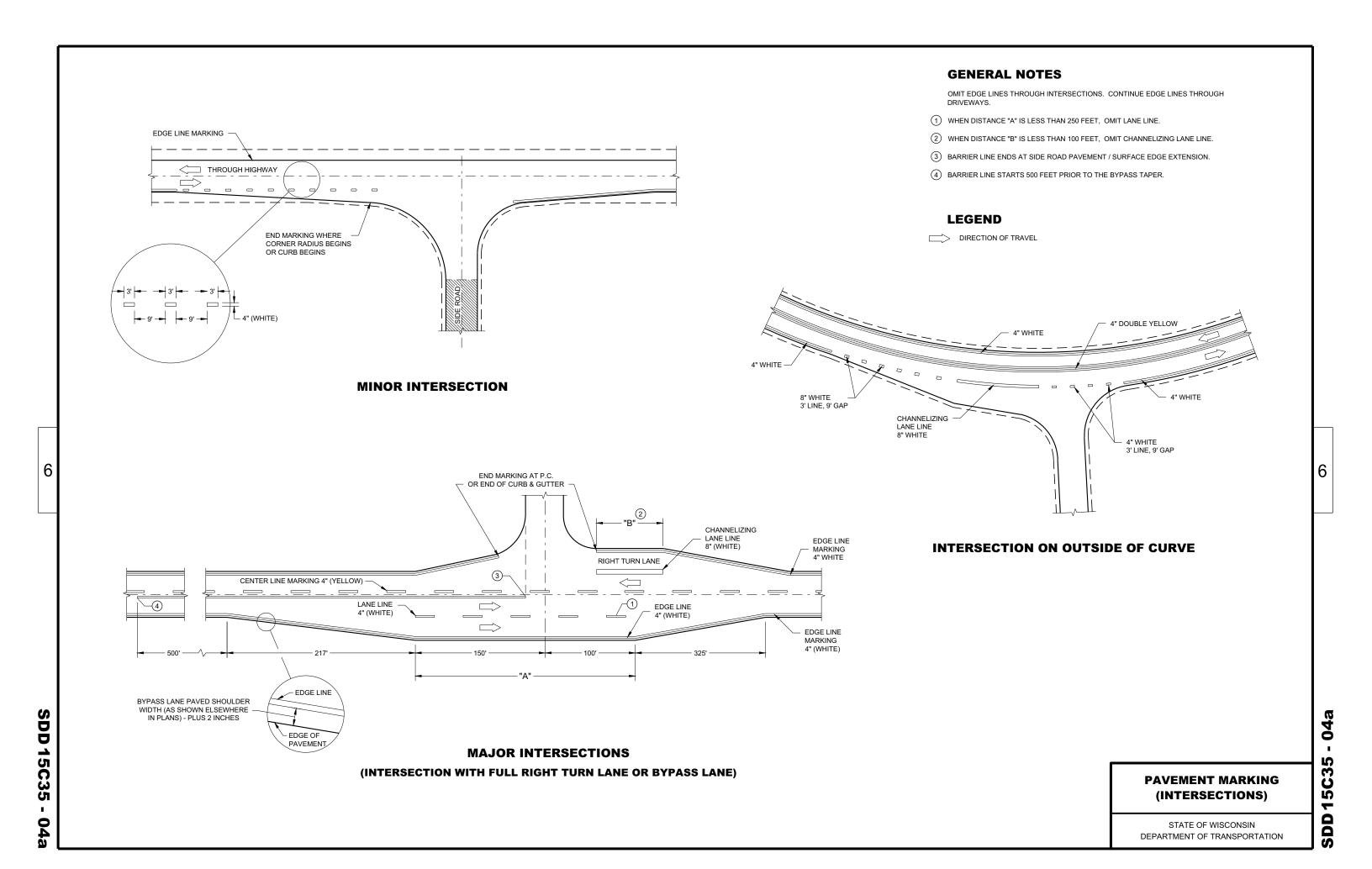
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3DD 15C19 - 06a

6







- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

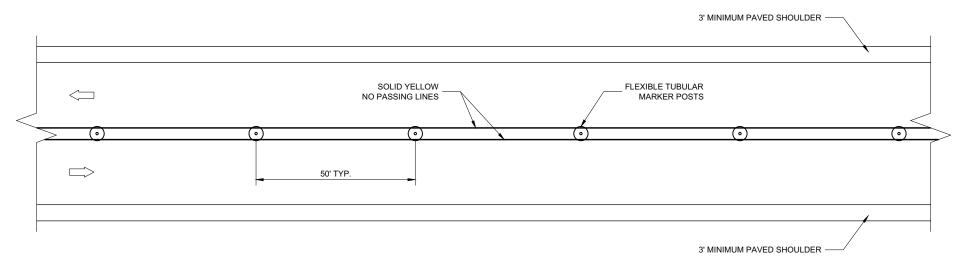
A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50 FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4 INCH DOUBLE YELLOW.





- (1) THE WO6-3 AND WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND / OR 500 FEET BEYOND ANY SIDE ROAD. THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN THE SIGNS.
- 2 CONVENTIONAL: 24" X 30" FREEWAY AND EXPRESSWAY: 36" X 48"



TWO LANE, TWO WAY OPERATION

TRAFFIC CONTROL TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

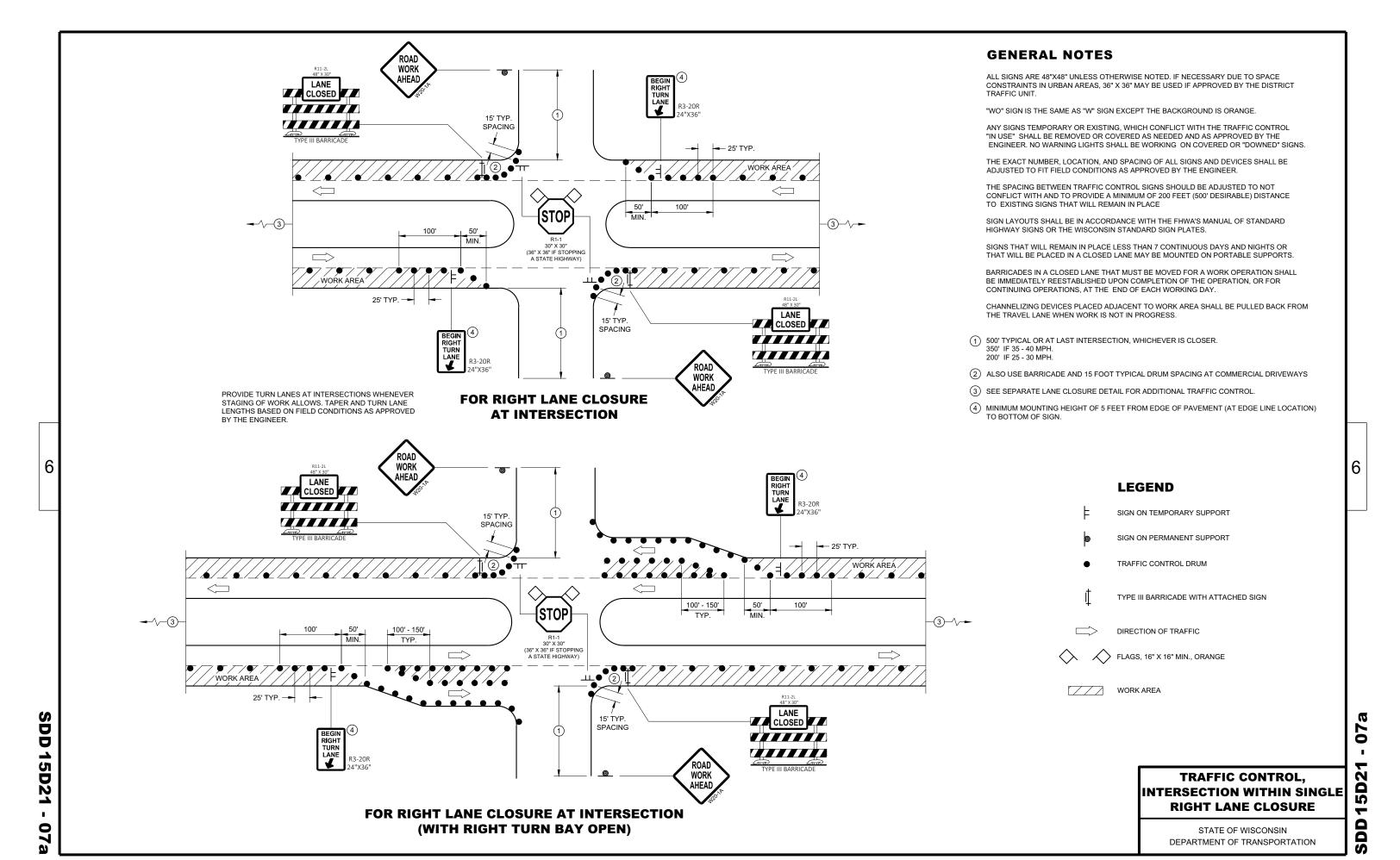
February 2020
DATE

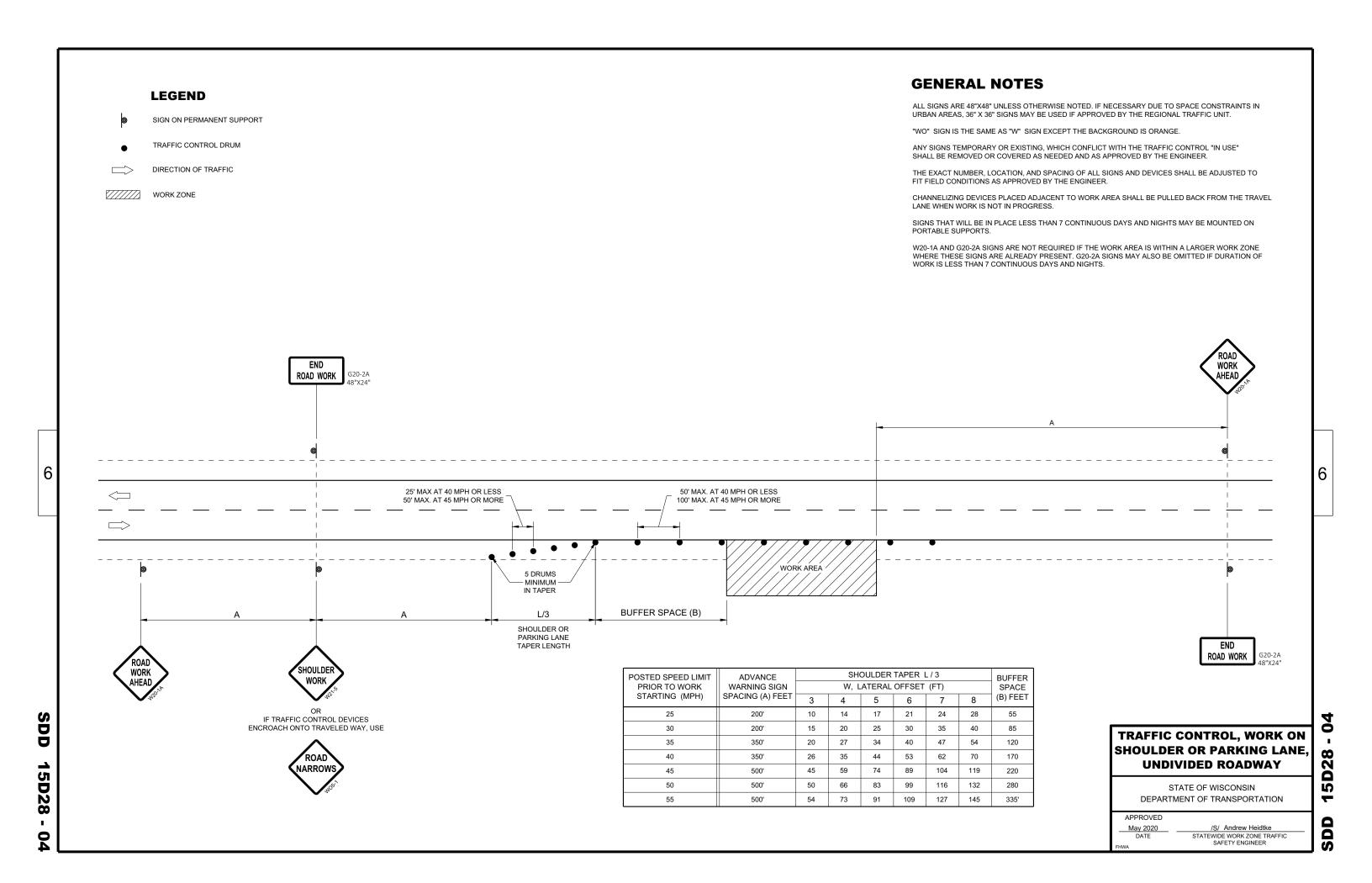
DD 15D06 - 04

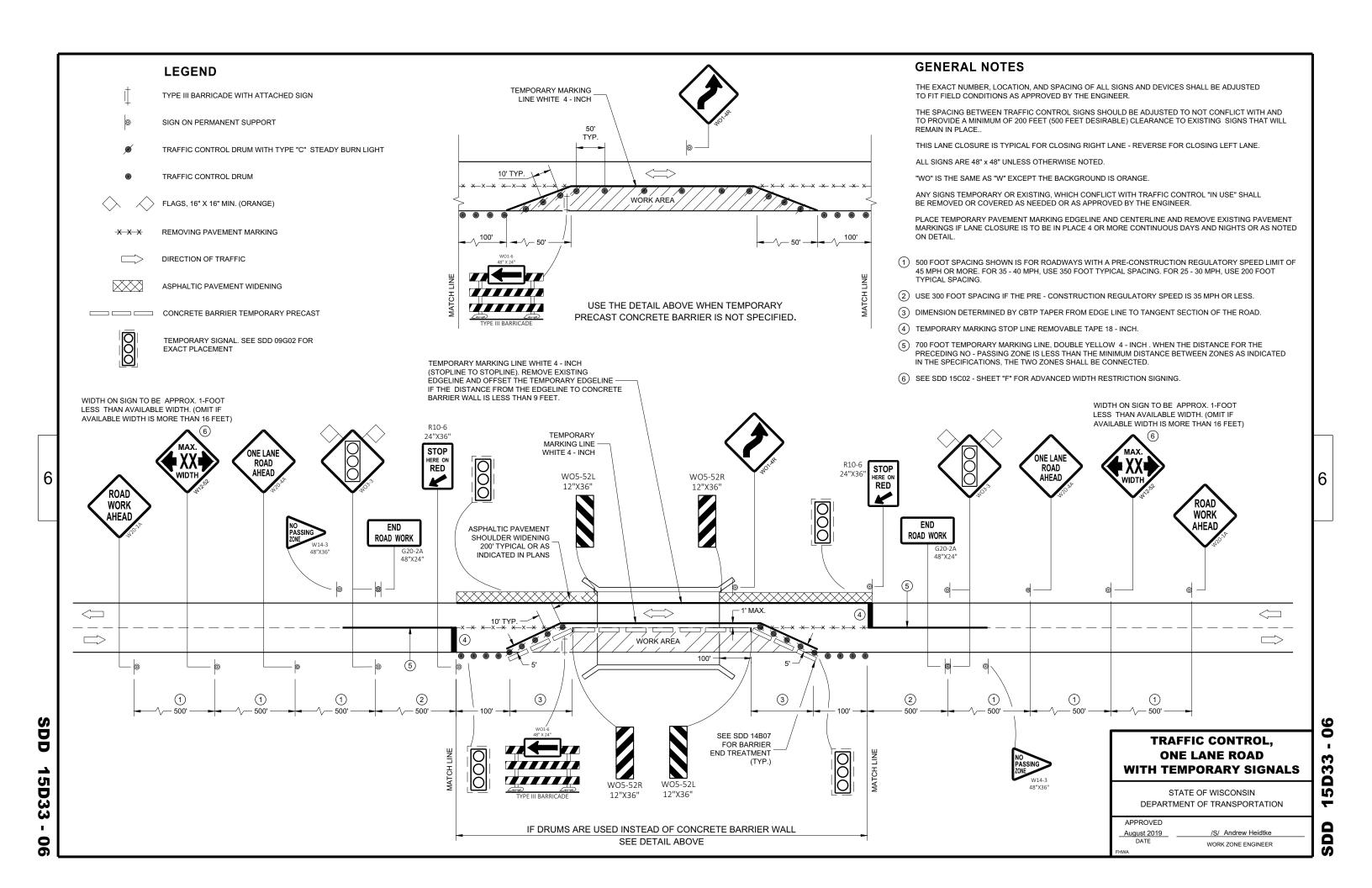
O /S/ Andrew Heidtke
STATE TRAFFIC ENGINEER OF DESIGN

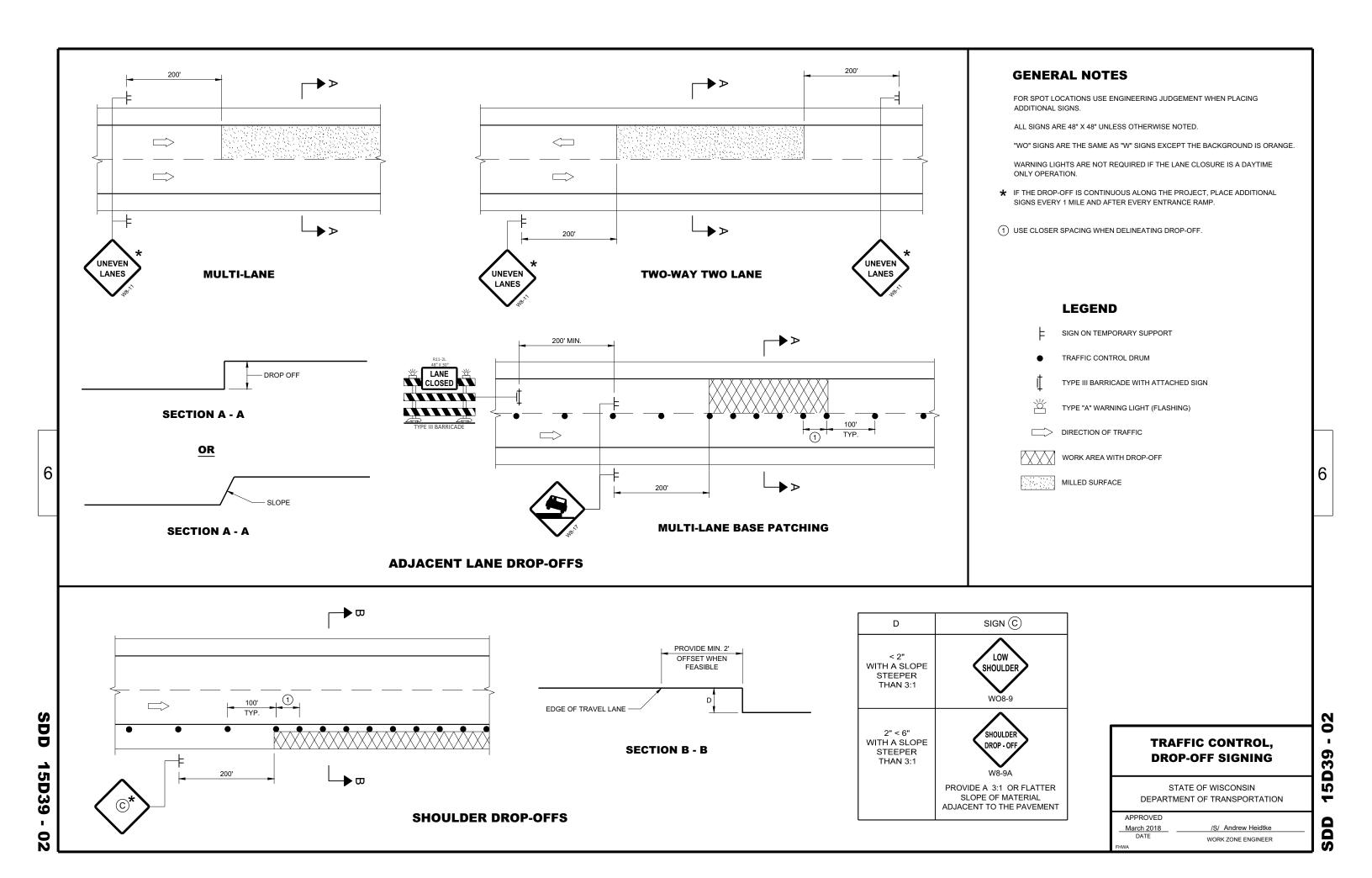
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ROADWAY STANDARDS DEVELOPMENT ENGINEER

February 2021

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

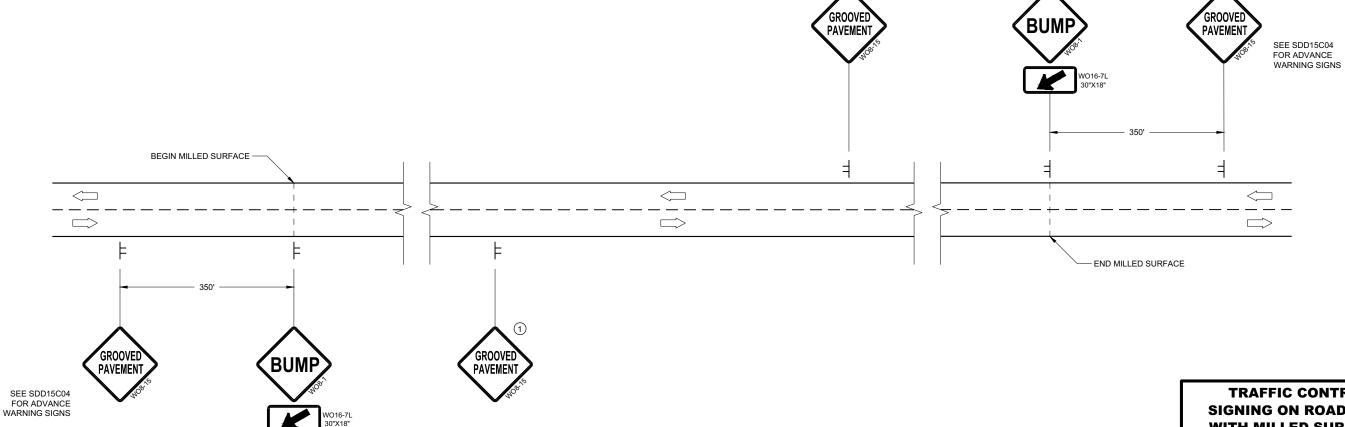
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- (2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

DIRECTION OF TRAFFIC



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, **SIGNING ON ROADWAYS WITH MILLED SURFACES**

 $\perp \!\!\! \perp$

TYPICAL SIDE ROAD APPROACH SIGN DETAIL

PAVEMENT

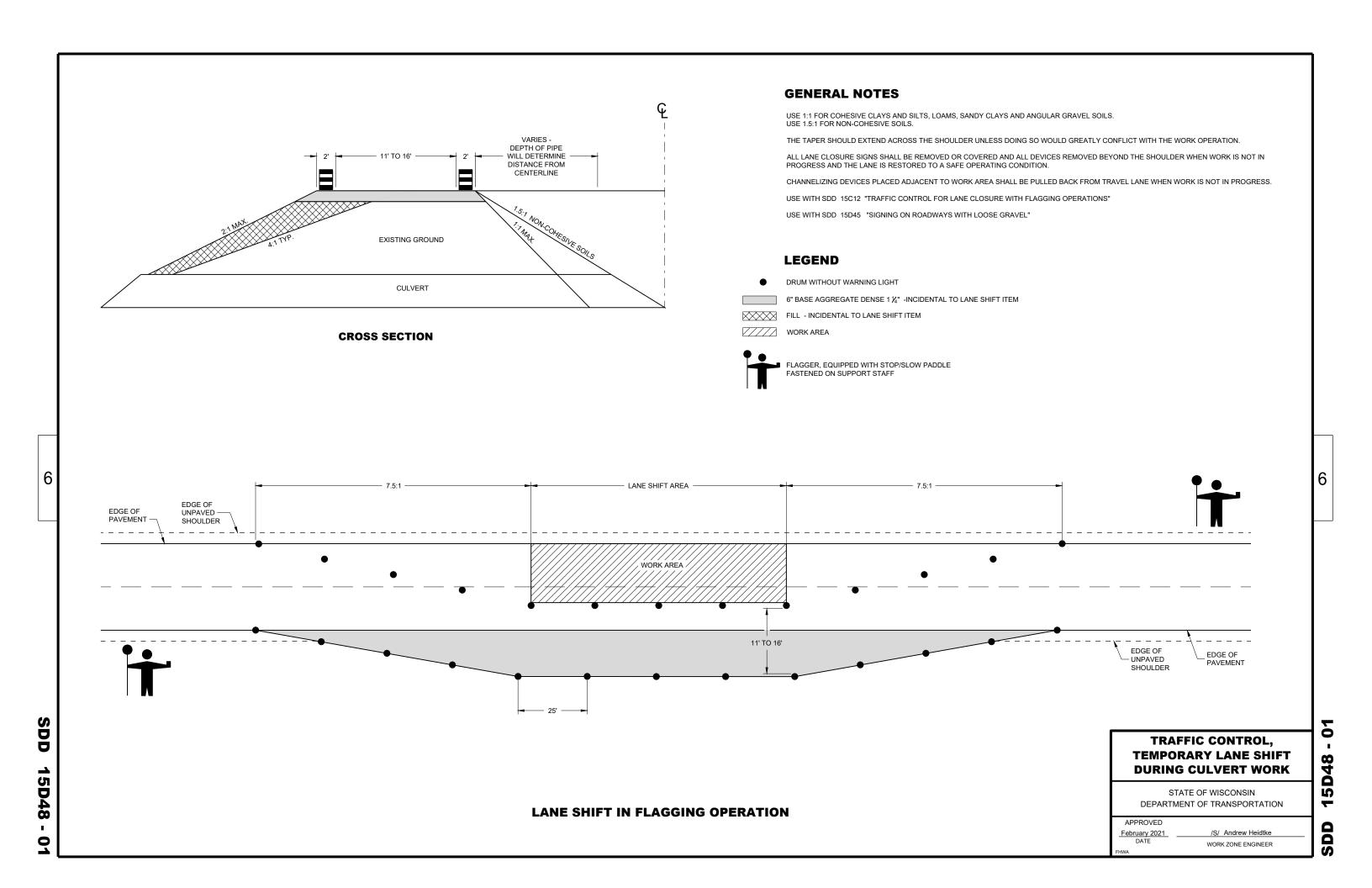
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

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TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

▼ TRAFFIC CONTROL DRUM

▼ TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE "A" WARNING LIGHT (FLASHING)

DIRECTION OF TRAFFIC

WORK AREA

GENERAL NO	OTES
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THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

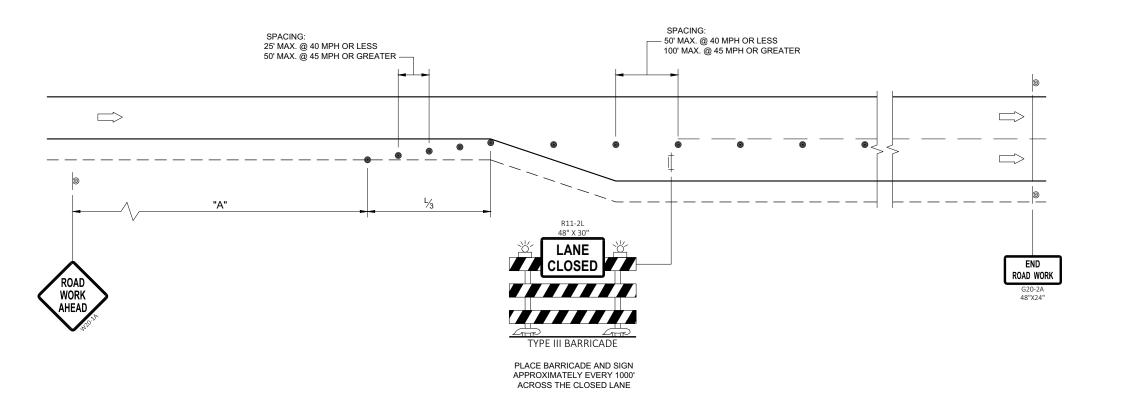
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.



SHIFTING TAPER 1/2

3 4 5 6 7 8

10 | 14 | 17 | 21 | 24 | 28

15 20 25 30 35 40

20 27 34 40 47 54

45 | 59 | 74 | 89 | 104 | 119

 50
 66
 83
 99
 116
 132

 54
 73
 91
 109
 127
 145

35 | 44 | 53 | 62 | 70

WARNING SIGN W, LATERAL OFFSET (FT)

POSTED SPEED LIMIT

PRIOR TO WORK

STARTING (MPH)

25

30

35

40

45

50

55

ADVANCE

SPACING (A) FEET

200

350

350

500

500

ADDED LANE CLOSURE WITHOUT LANE SHIFT

TRAFFIC CONTROL ADDED LANE CLOSURE WITHOUT LANE SHIFT

0

0

5D5

S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

| February 2021 | /S/ Andrew Heidtke | DATE | WORK ZONE ENGINEER

HWA

SDD 15D50 - 01a

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER (L/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

R11-2L

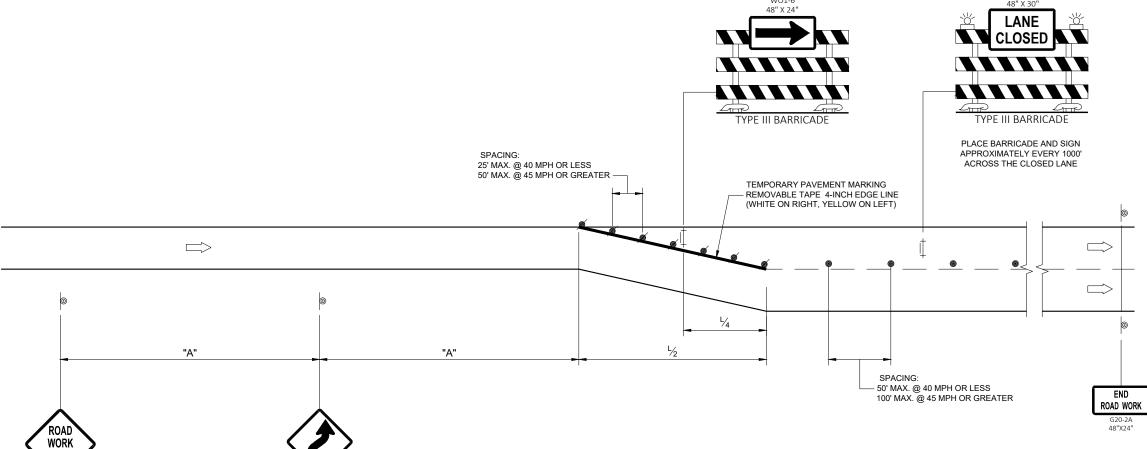
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR FOUR CONTINUOUS DAYS AND NIGHTS.



ADDED LANE CLOSURE WITH LANE SHIFT

TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021

| February 2021 | /S/ Andrew Heidtke | DATE | WORK ZONE ENGINEER |

SDD 15D50 - 011

SDD 15D50 - 01

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

////// WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	000'

1200'

55

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

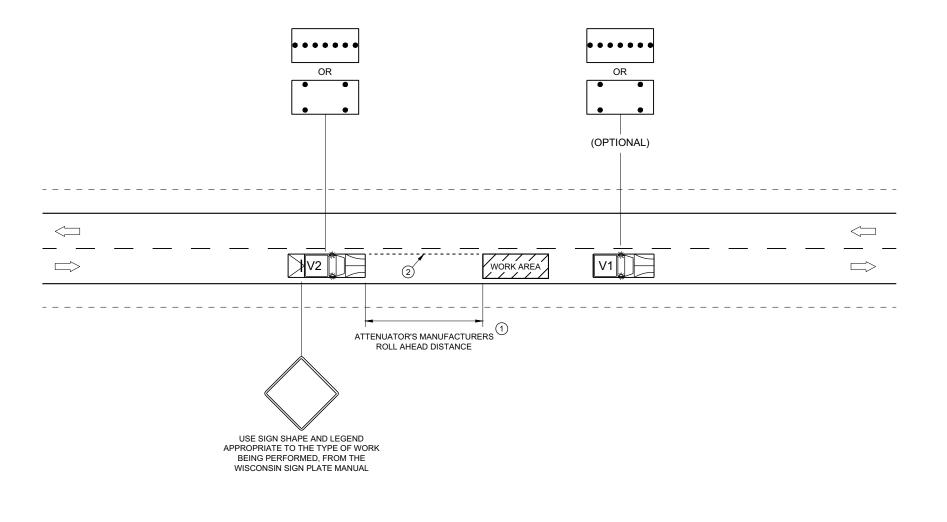
MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF

- DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- 2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2021
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

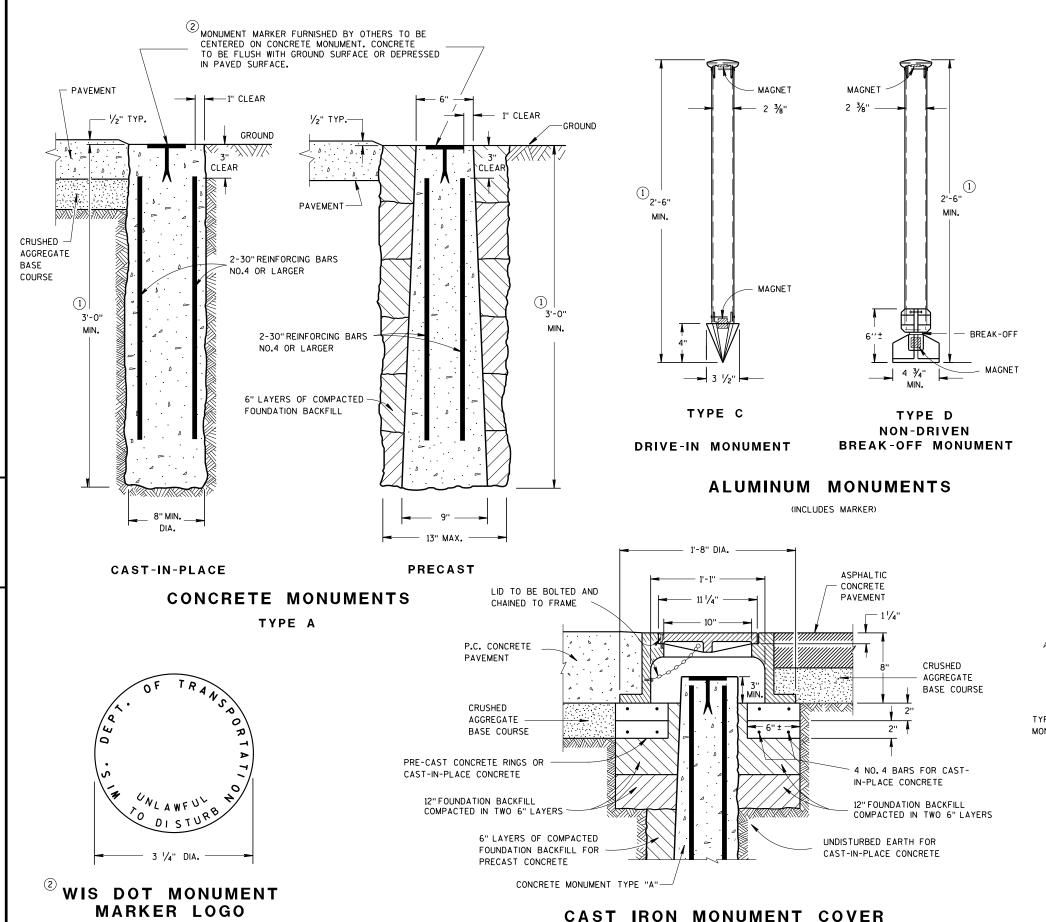
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WISCO TRANS /S/ And EWIDE WO SAFETY



(APPROXIMATE WEIGHT 95 LBS)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

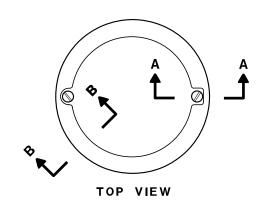
MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

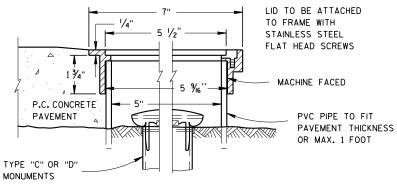
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

- (1) MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.
- ② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.





SECTION B-B

SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2018

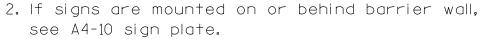
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CHIEF SURV

/S/ Raymond A. KumapayI
CHIEF SURVEYING AND MAPPING ENGINEER

Ω

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The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm).

- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is $5'-3''(\frac{+}{2})$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

2' Min - 4' Max (See Note 6)

** Curb Flowline

D
White Edgeline Location

*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

Area of Sign
Installation
(Sq.Ft.)
(Min)
20 or Less
4'
Greater than 20
5'

The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. _A4-3.22

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

APPROVED



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4''-3'' (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- ** * See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

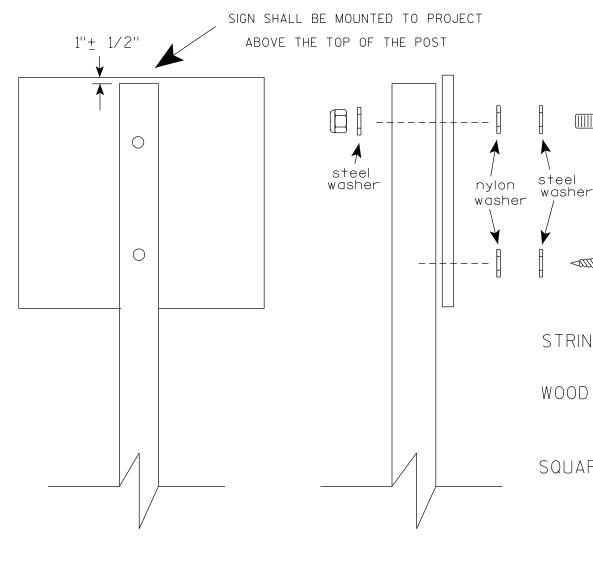
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4" \times 6")$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - $\frac{1}{32}$ " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

PLATE NO. <u>44-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

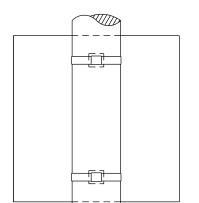
DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

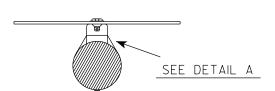
For State Traffic Engineer

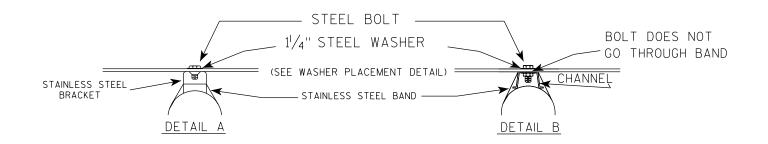


BANDING

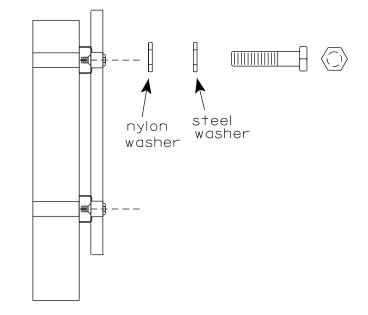


SINGLE SIGN





WASHER PLACEMENT



HWY:

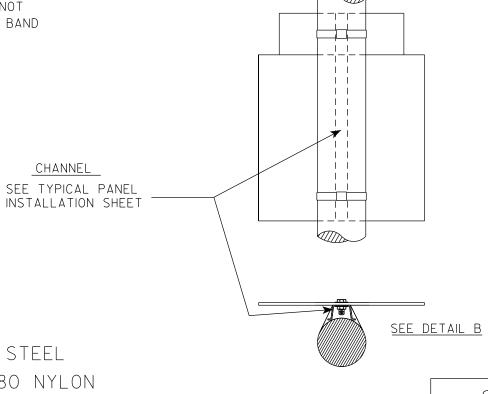
WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

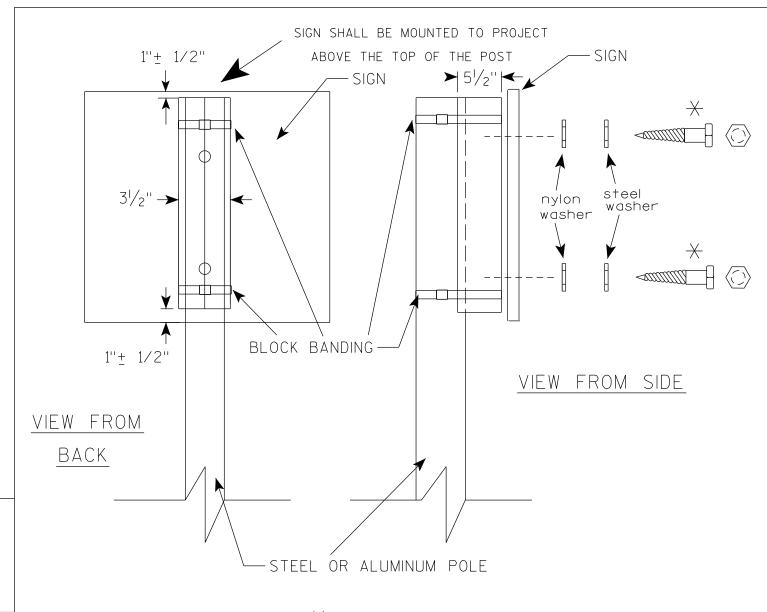
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

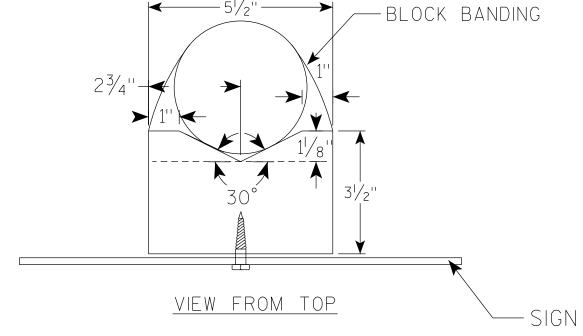
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL





GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

| APPROVED

For State Traffic Engineer

SHEET NO:

Matthew R

DATE 6/10/19

PLATE NO. _A5-10.2

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

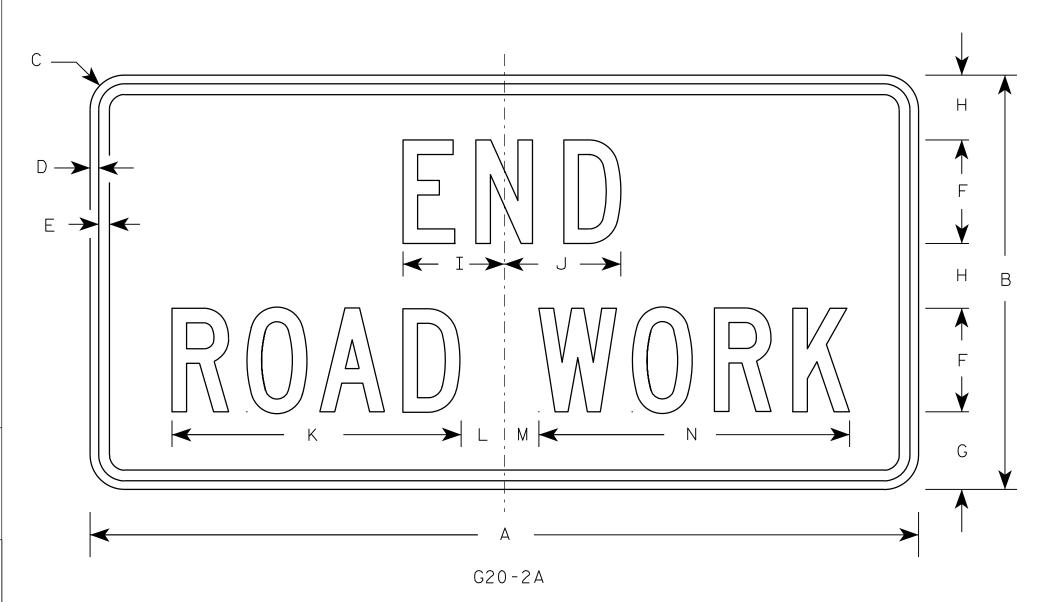
NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Metric equivalent for this sign is:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

AP

for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

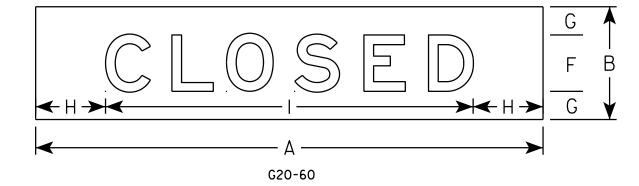
5.561773:1.000000 WISDOT/CADDS SHEET 42

NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series E
- 4. Material shall be .040 aluminmum



SIZE A B D Ε F G Ι K N 0 Р Q R S X Z 4 108 24 14 1/8 78 1/4 12 6 18.0 STANDARD SIGN G20-60

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 5/13/15

PLATE NO. G20-60.1

COUNTY:

PLOT DATE: 13-MAY-2015 08:46

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 20.431338:1.000000

SHEET NO:

HWY:

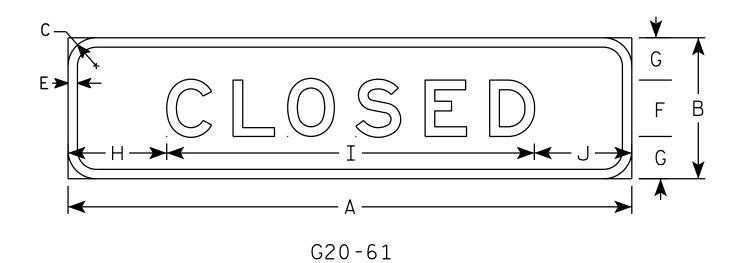
PROJECT NO:

NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

3. Message Series - E



SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	120	30	6		2	12	9	21	78 1/4	20 ¾																	25.0
5																											

COUNTY:

STANDARD SIGN G20-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rawh

DATE 5/07/15 PLATE NO. G20-61.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\G2061.DGN

PROJECT NO:

HWY:

PLOT DATE: 07-MAY-2015 13:47

PLOT NAME :

PLOT SCALE: 20.431338:1.000000

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Top Red - Bottom Blue (See Note 6) Message - White - See Note 6

- 3. Message Series See note 5
- 4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
- 5. M1-1 Numerals D Interstate - C

M1-1A - All copy - C

6. Permanent Signs

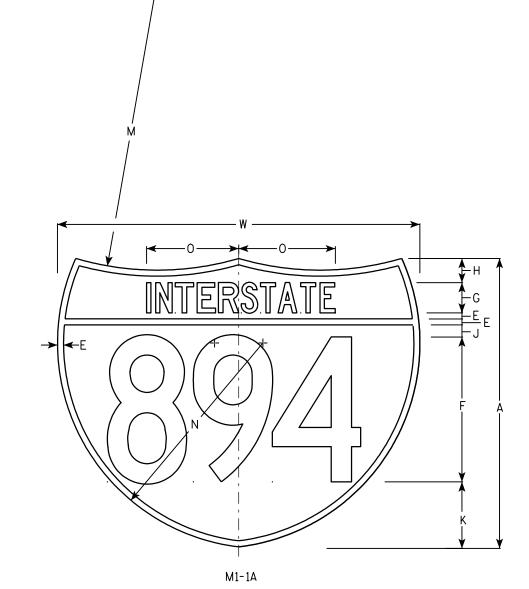
Message - Type H Reflective

Detour or other temporary signs
Background - Reflective

Message - Reflective

M1-1

HWY:



Metric equivalent for these signs are:

SIZE	M1 - 1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

\Box	1 300		× 50.	J IIIIII	<u>ا</u> ر	J00 I	IIIII V 1	123 11111	<u>'</u>																				
																										M1-1		W1 - 1	M1-1A
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Area sq. ft.	Area sq. ft.	Area m2	Area m2
1																													
2	24				1/2	12	2 ½	2		1	5 ½	15	24	17	7 1/8								30			3.13	3.91	. 36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 ½	36	25 ½	11 ¾								45			7.03	8.79	. 81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 ½	11 ¾								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	. 81	1.05

COUNTY:

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED MATTER

DATE 08/23/05

PLATE NO. M1-1.8

For State Traffic Engineer

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\M11.DGN

PROJECT NO:

PLOT DATE: 13-0CT-2005 14:49

PLOT NAME :

PLOT BY : DITJPH

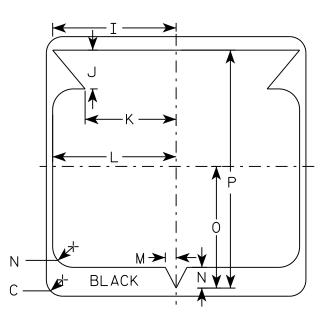
PLOT SCALE : 7.947778:1.000000

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series D except 3 number signs Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

	G F A H H
A A	
M1-6	1



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 ¾	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 3/16/18

PLATE NO. <u>M1-6.10</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M16.DGN

HWY:

PROJECT NO:

PLOT DATE: 16-MAR-2018 14:11

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE : 6.655277:1.000000







MP3-1









HWY:



NOTES

- 1. All Signs Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

5. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1 1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

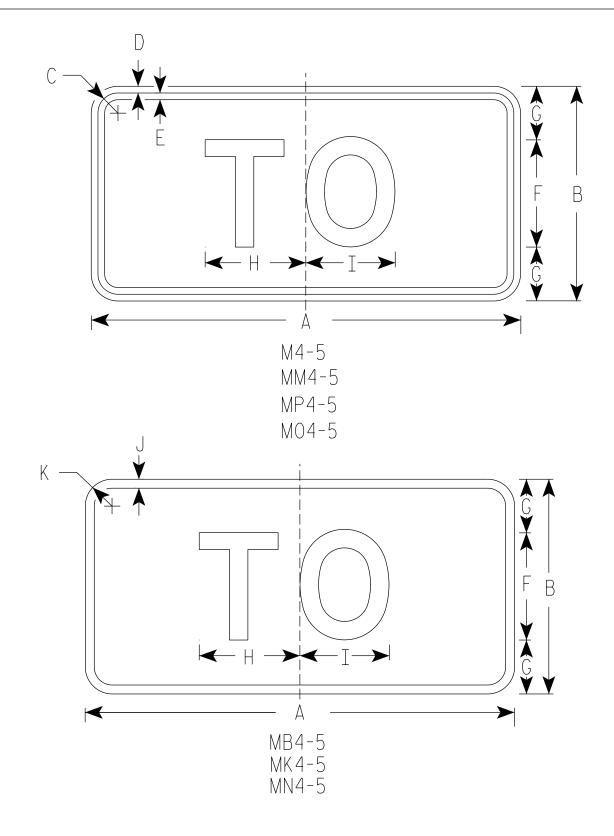
FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M4-5 Background White

Message - Black

MB4-5 Background - Blue

Message - White

MK4-5 Background - Green

Message - White

MM4-5 Background - White

Message - Green

MN4-5 Background - Brown

Message - White

MP4-5 Background - White

Message - Blue

MO4-5 Background - Orange Type F Reflective

Message – Black

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2						·			·	·				·		4.5

COUNTY:

STANDARD SIGN M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther K Kauch
Forstate Traffic Engineer

DATE 03/7/19

PLATE NO. <u>M4-5.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M45.DGN

HWY:

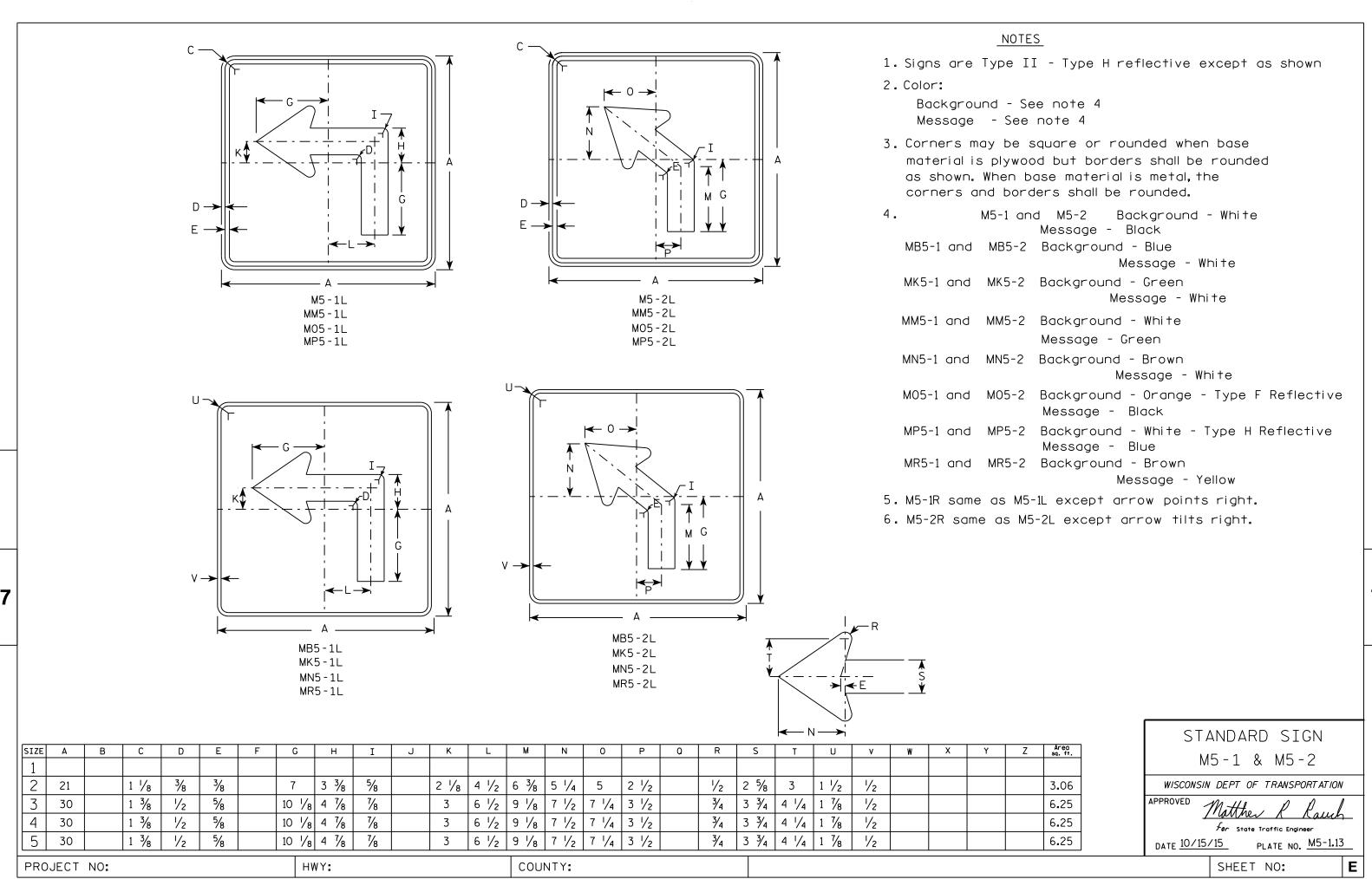
PROJECT NO:

PLOT DATE: 07-MAR-2019

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plo+scale.....\$\$ WISDOT/CADDS SHEET 42



FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000







MR6-1

HWY:



NOTES

- 1. Signs are Type II Type H except as Shown
- 2. Color:

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

PLOT SCALE . 11 675051.1 000000



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Red Message - White

3. Message Series - C

*								— А — ;											A	
									H			- G -							F	A
		E						 	-1			_//								*
D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>11/12/15</u>

PLATE NO. ____R1-1.13

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN

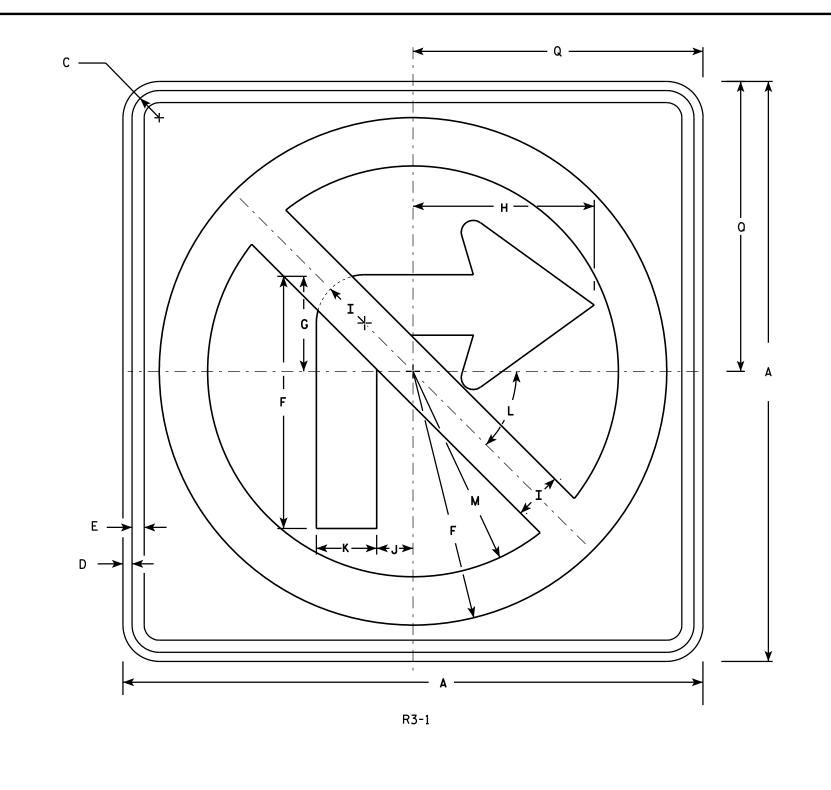
HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

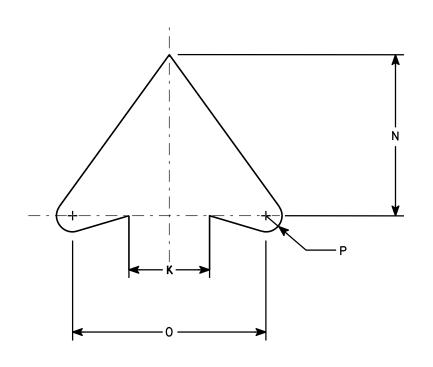
PLOT SCALE: 4.427909:1.000000



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45 °	8 ½	5	6	1/2	12										4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 %	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 %	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0
PRO	JECT	NO:			·		ŀ	HWY:	·			·	СО	UNTY:			·			·		·	·			·	

STANDARD SIGN R3-1

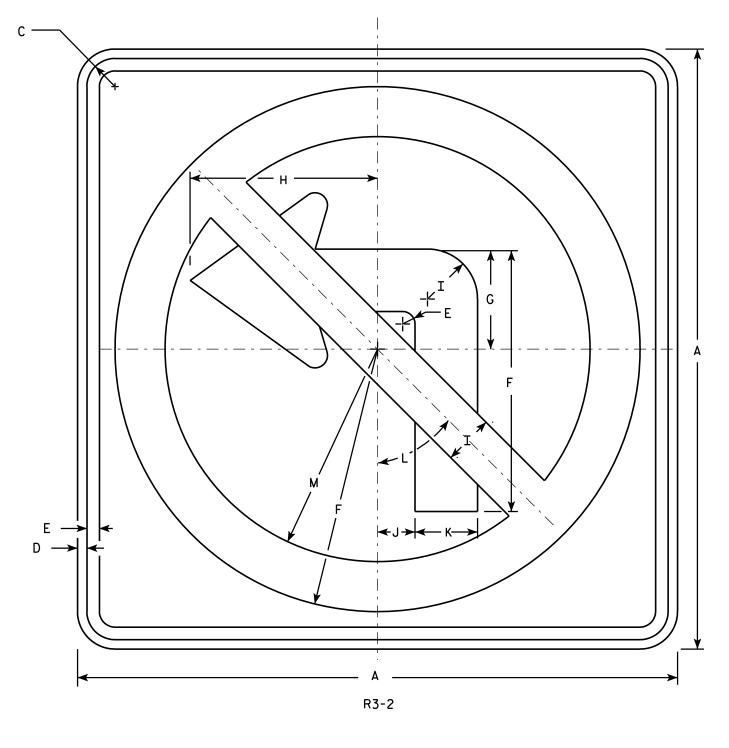
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

DATE12/08/10

PLATE NO. __R3-1.5

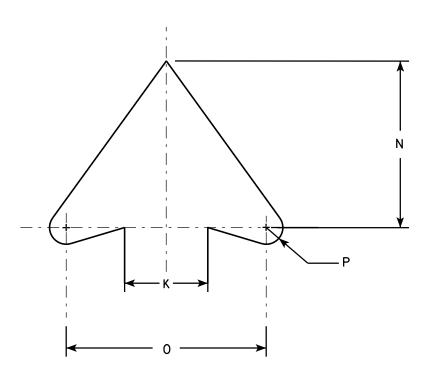
SHEET NO:



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	9	1/2											4.0
2M	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$ State Traffic Engineer

DATE 12/08/10

PLATE NO. R3-2.10

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :

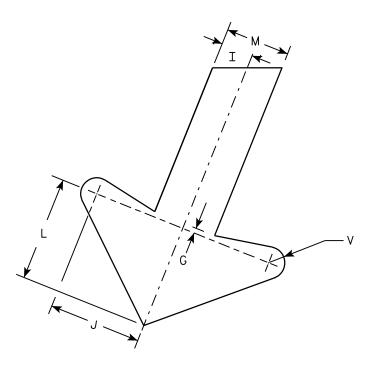
R3-20R

HWY:

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW	DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 %	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 1/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

COUNTY:

STANDARD SIGN R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
Forstate Traffic Engineer

SHEET NO:

DATE 10/18/10

PLATE NO. <u>R3-20R.</u>6

М

Ν

PLOT DATE: 15-OCT-2010 14:59 PLOT BY: dotsja

PLOT NAME :

PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

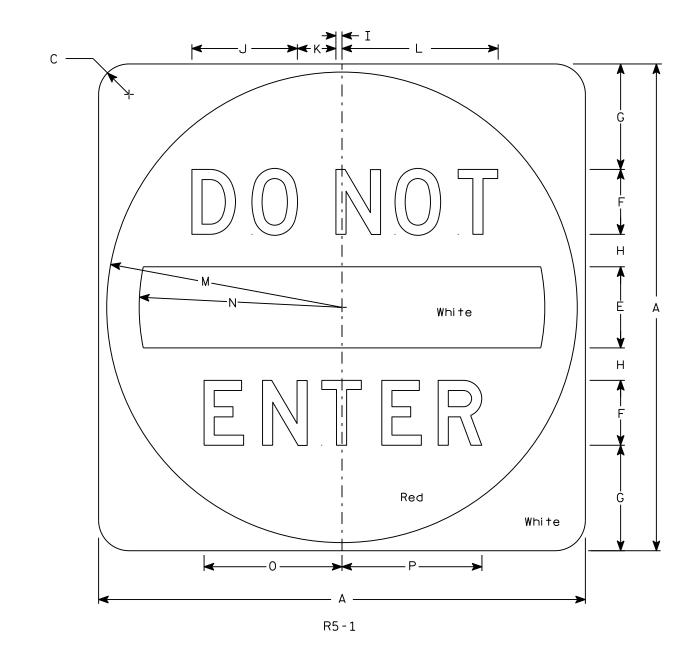
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320R.DGN

PROJECT NO:

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - See detail Message - White

3. Message Series - D



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
1																											
25	30		1 1/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 %	14 1/2	12 1/2	8 1/2	8 %											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 ¾											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 1/8											16.0

COUNTY:

STANDARD SIGN R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauch

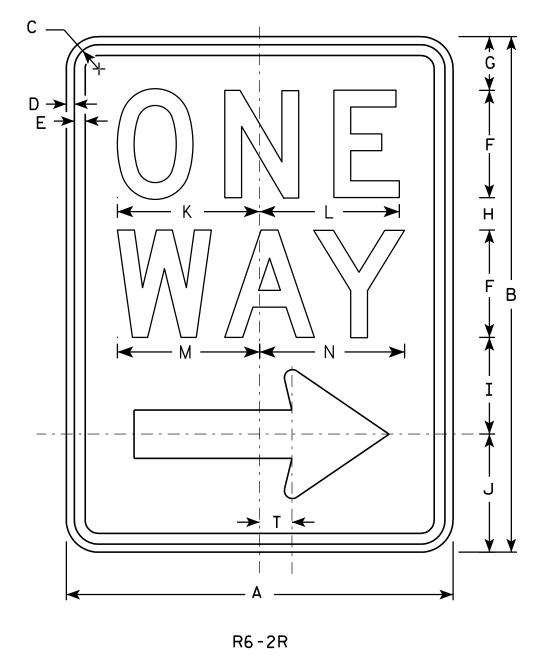
DATE <u>3/15/18</u>

8 PLATE NO. R5-1.16
SHEET NO:

PLOT SCALE : 5.914594:1.000000

HWY:

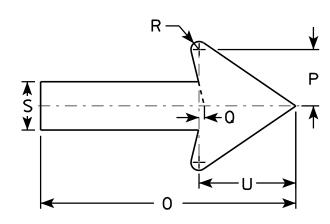
PROJECT NO:



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 ½	6 %	6 1/2	6 %	6 3/4	11 1/8	2 %	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 %	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2	6 %	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 1/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 %	1/2	3/4	4 3/4	3	9					
4	36	48	1 1/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 %	1/2	3/4	4 3/4	3	9					
5																										

COUNTY:

STANDARD SIGN R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 11/2/10

PLATE NO. R6-2.8 SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R62.DGN

HWY:

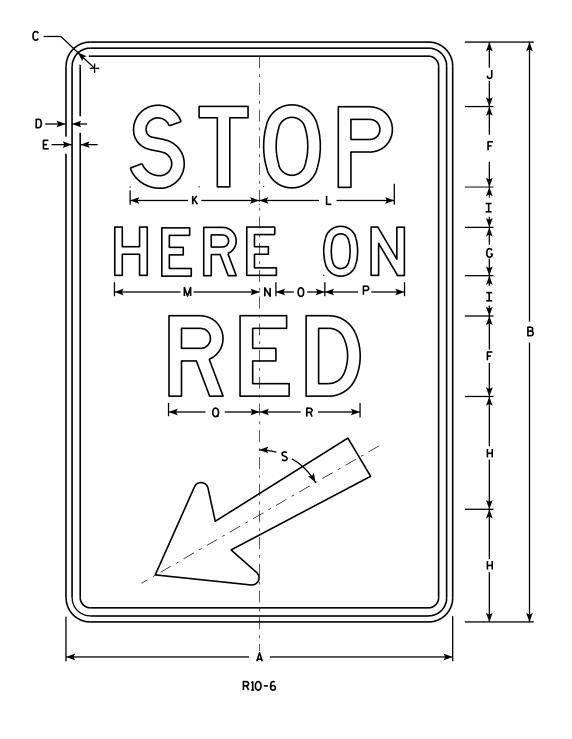
PROJECT NO:

PLOT DATE: 02-NOV-2010 15:25

PLOT BY: ditjph

PLOT NAME :

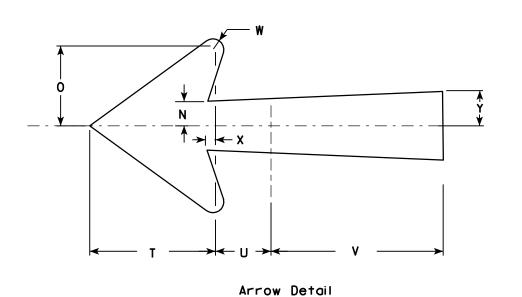
PLOT SCALE: 4.469282:1.000000



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	W	х	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 %	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

STANDARD SIGN R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 4/5/11

PLATE NO. R10-6.6

COUNTY:

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

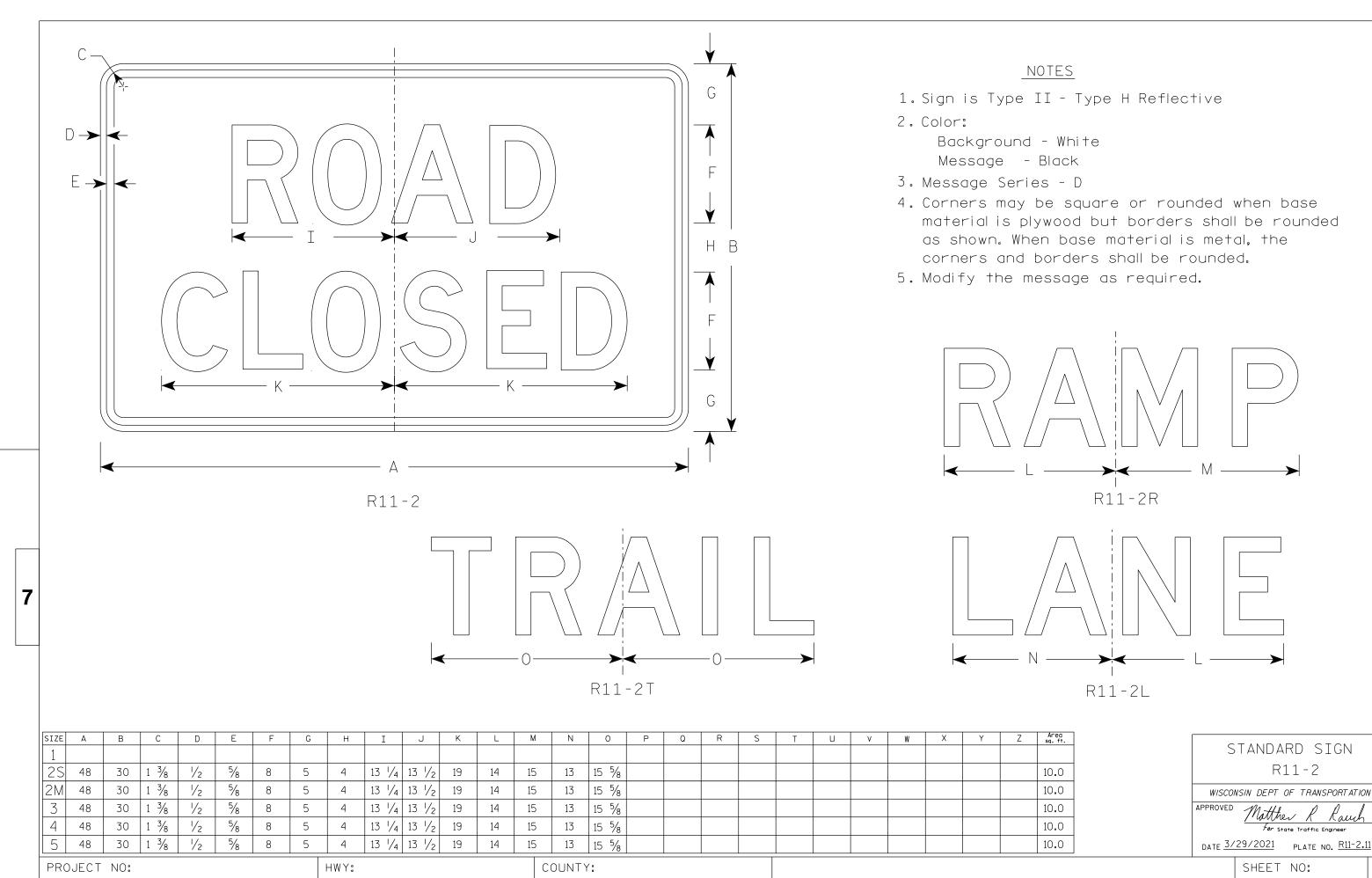
WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R106.DGN

PROJECT NO:

HWY:

PLOT DATE: 05-APR-2011 09:50



FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn

PLOT DATE: 29-MAR 2021 8:15

PLOT BY : dotc4c

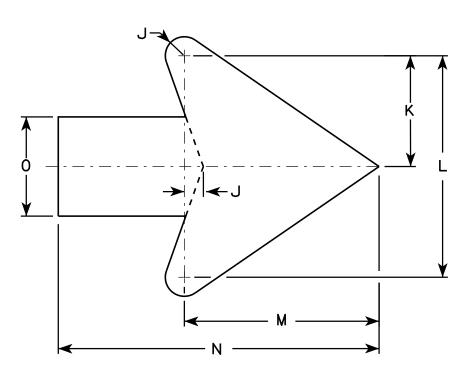
PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	M	N	0	Ρ	0	R	S	T	U	V	W	X	Y	Z	Areo
1																											
25	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 1/8	3/4	4 1/2	9	7 1/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 ½	10 1/8	9 %	15 ¾	4 3/4												9.0
5	48		2 1/4	₹4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

COUNTY:

W12-1D

STANDARD SIGN W12-1D

WISCONSIN DEPT OF TRANSPORTATION

Fer State Traffic Engineer DATE 3/13/13 PLATE NO. W12-1D.15

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN

PROJECT NO:

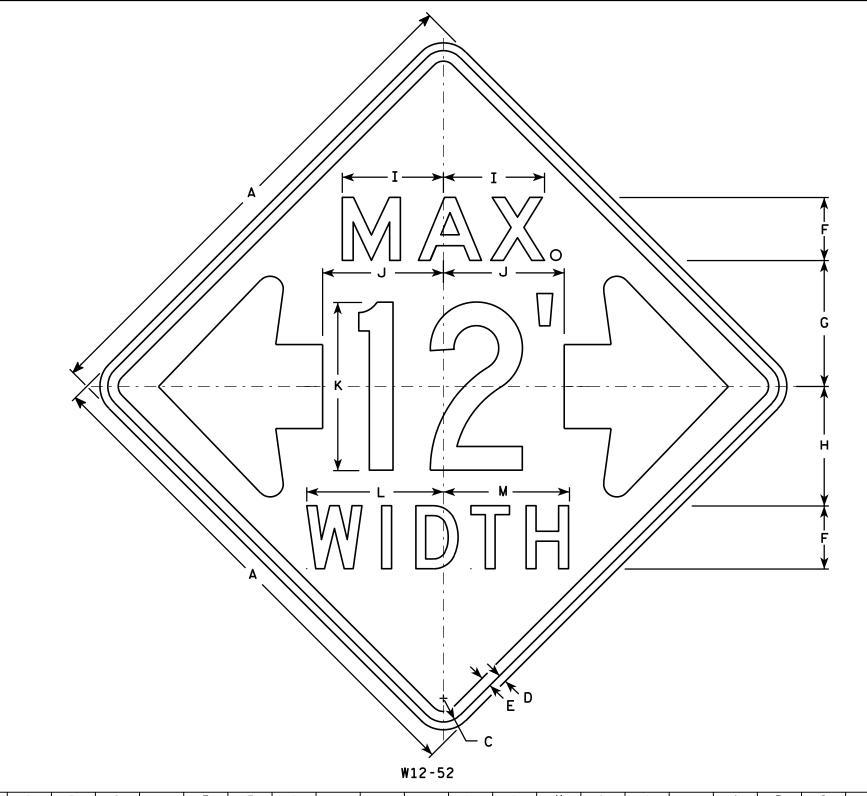
HWY:

PLOT DATE: 13-MAR-2013 13:26

PLOT BY: mscj9h

PLOT NAME :

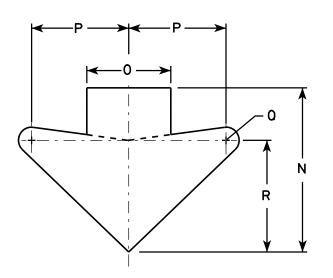
PLOT SCALE: 4.713802:1.000000



- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. The top line is series E, the numerals are series C, and the bottom line is series D.
- 6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

CT TE			T					ш			1/		1.4		_		_		_					· ·	·	7	Area
SIZE	Α	В	L	ט	-	F	G	Н	l I	J	K	L	M	N	U	P	U	R	>	1	U	V	W	X	T		Area sq. ft.
1																											
25	48		2 1/4	₹4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 %									16.0
2M	48		2 1/4	₹4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 %									16.0
3																											
4																											
5																											

COUNTY:

STANDARD SIGN W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

SHEET NO:

HWY:

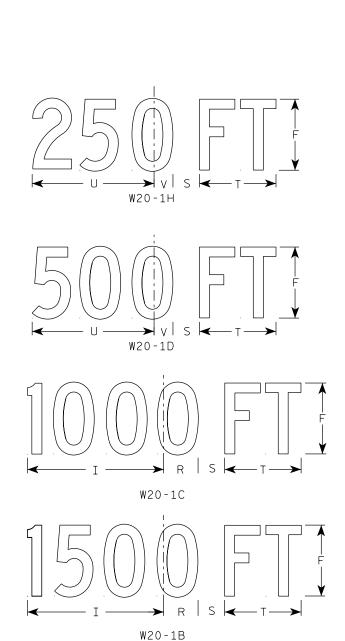
PROJECT NO:

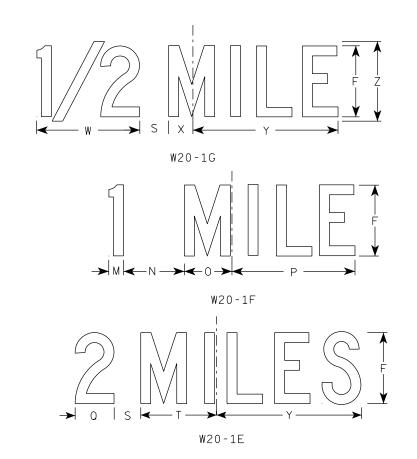
PLOT NAME :

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background – Orange Message – Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.





SIZE	А	В	С	D	E	F	G	H I	J	K	_ M	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4 10 1/8	7	7 % 8	7/8 1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

 f_{or} State Traffic Engineer
DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

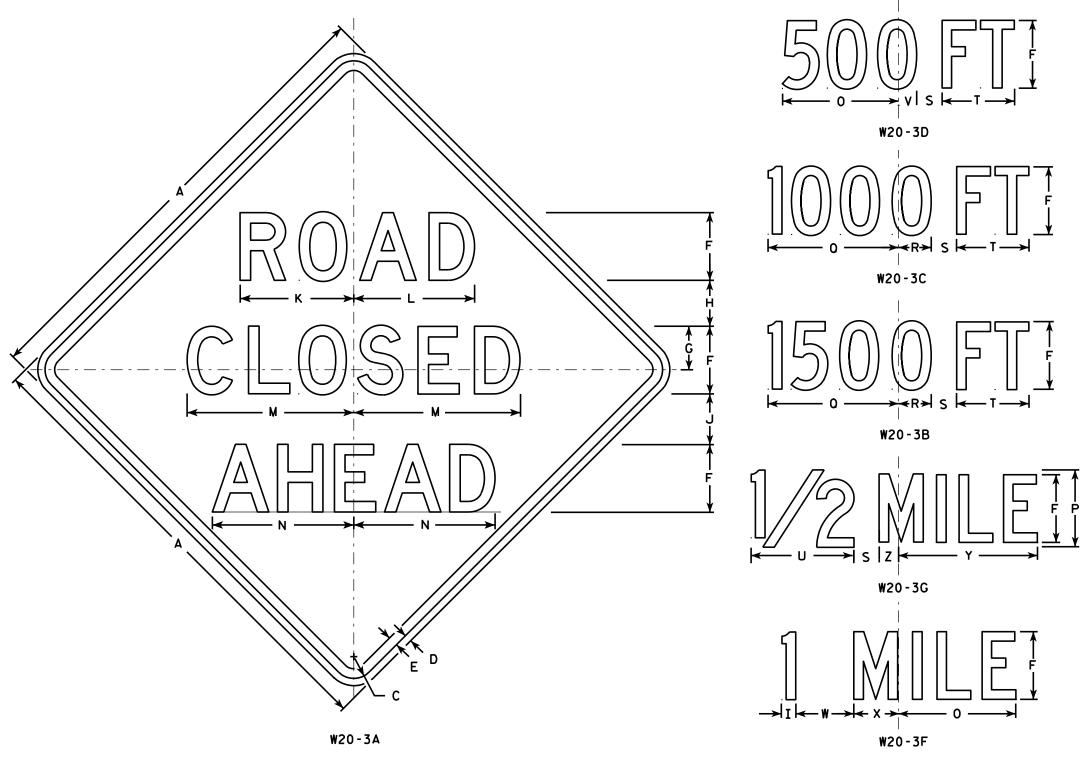
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN

PROJECT NO:

W20-1A

PLOT DATE: 25-MARCH-2020

PLOT BY : dotc4c



- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

1 % 5/8 ¾ 8 3/8 8 7/8 12 1/2 5 % 1 3/8 4 1/2 36 3 1/2 10 3/4 1 3/4 8 4 \(\frac{5}{8} \) 14 \(\frac{3}{8} \) 2 \(\frac{3}{8} \) 16.0 3/4 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 7 1/2 10 5/8 1 7/8 2M 3/4 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 48 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 7 1/2 10 % 1 % 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 3/4 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 4 % | 14 % | 2 % | 16.0 48 3/4 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 13 1/2 3 3/8 2 5/8 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 7 1/2 10 5/8 1 7/8 48 5 4 5/8 14 3/8 2 3/8 16.0 3/4 2 1/4 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 48

COUNTY:

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11

PLATE NO. W20-3.7

SHEET NO:

PROJECT NO: FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN HWY:

PLOT DATE: 18-MAR-2011 12:08

PLOT BY: mscj9h

PLOT NAME :

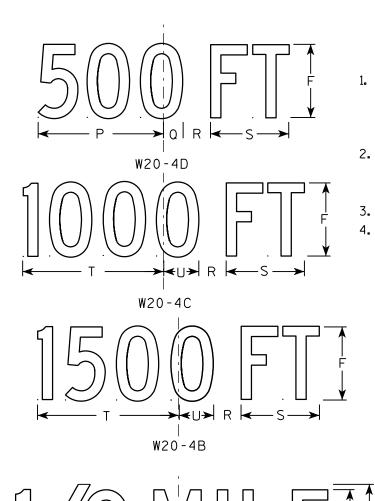
PLOT SCALE: 9.931739:1.000000



- Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-4B

W20-4G

W20-4G

SIZE	Α	В	С	D	E	F	G	Н	I	J K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	36		1 1/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8 2 3/8	8	13 1/2	7	8 1/8	9	1 3/8	1 1/8	5 %	10 1/8	2 ½	1 1/8	4 ½	3 ½	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 % 3 1/4	10 %	17 3/4	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 ½	3	1 1/2	6	4 %	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 ½	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 %	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 ½	6	4 %	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8 3 1/4	10 %	17 3/4	9 3/4	12 5/8	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	14 3/8	2 3/8	16.0

STANDARD SIGN W20-4A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-4.9

SHEET NO:

W20-4A

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W204.DGN

PROJECT NO:

PLOT DATE: 18-MAR-2011 12:11

PLOT BY: mscj9h

W20-4F

WISDOT/CADDS SHEET 42

Ε

W20-53F

PLOT BY: mscj9h

NOTES

- Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areo sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 ½	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 1/8	5 %	8	1 3/8	4 1/2	3 ½	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3	2 %	7 1/2	10 %	1 1/8	6	4 5%	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 %	12	8	13 1/2	3	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 1/8	12 1/8	17 1/4	14 5/8	12	8	13 ½	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8	2 3/8	16.0

COUNTY:

W20-53A

HWY:

STANDARD SIGN W20-53A,B,C,D,F,G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 5/27/15 PLATE NO. W20-53.1

SHEET NO:

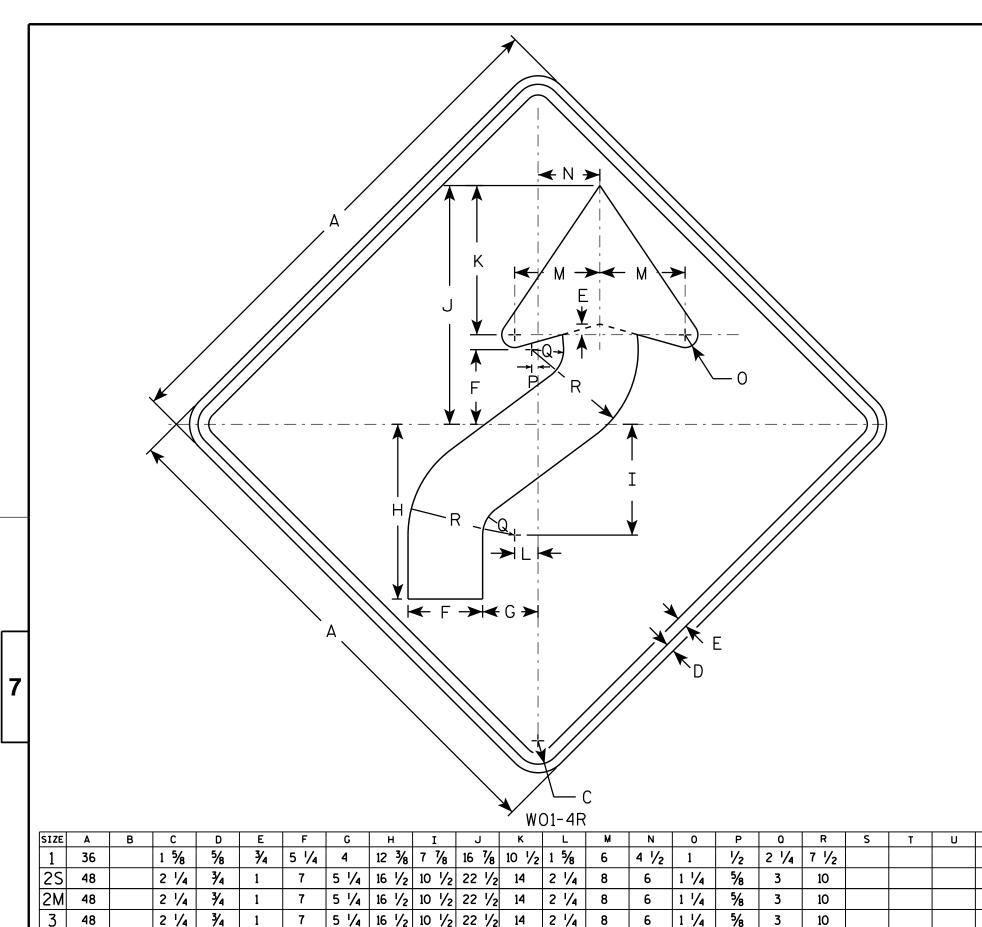
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN

PROJECT NO:

PLOT DATE: 27-MAY-2015 19:40

PLOT NAME :

PLOT SCALE : 9.729210:1.000000



5 1/4 16 1/2 10 1/2 22 1/2 14

5 1/4 16 1/2 10 1/2 22 1/2 14

HWY:

2 1/4

2 1/4

NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

9.0 16.0 16.0 16.0 16.0 STANDARD SIGN W01-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE <u>11/18/1</u>3

PLATE NO. WO1-4.1
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN

48

48

PROJECT NO:

2 1/4 3/4

2 1/4 | 3/4

PLOT DATE : 28-FEB-2014 11:35

10

1 1/4

1 1/4

COUNTY:

5/8

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 6.755110:1.000000

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

	G
	¥ B
W01-6	

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

For State Traffic Engineer

13 PLATE NO. <u>W01-6.1</u>

DATE <u>11/18/13</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN

HWY:

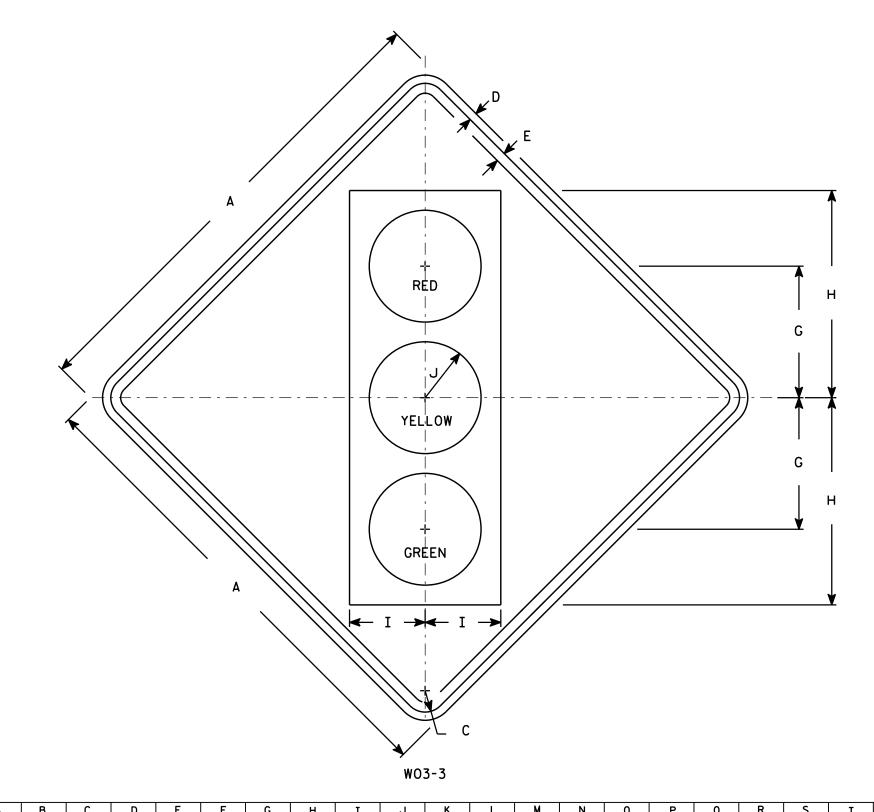
PROJECT NO:

PLOT DATE : 28-FEB-2014 11:37

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.837526:1.000000



- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Symbol and border are non-reflective black. Top circle - Type H Reflectorized Red Center circle - Same as background Bottom circle - Type H Reflectorized Green

1																											
SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		10	15 ¾	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
4	48		2 1/4	3∕4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3∕4	1		12 1/2	20	7 1/2	5																	16.0

COUNTY:

STANDARD SIGN WO3 - 3

WISCONSIN DEPT OF TRANSPORTATION

DATE 11/20/13 PLATE NO. WO3-3.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W033.DGN

HWY:

PROJECT NO:

PLOT DATE: 20-NOV-2013 11:26

PLOT NAME :

PLOT BY: mscsja

WISDOT/CADDS SHEET 42

PLOT SCALE: 7.296908:1.000000

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

W057-52

HWY:

* See note 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 %	10 %	11 3/8	2	12													6.0
25	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0

COUNTY:

STANDARD SIGN W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 3/21/17

PLATE NO. W057-52.2

....

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W05752.DGN

PROJECT NO:

PLOT DATE: 21-MAR-2017 08:53

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 8.139174:1.000000

Notes



Wisconsin Department of Transportation

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http://www.dot.wisconsin.gov