Section No.

Section No.

Section No.

TOTAL SHEETS =

DESIGN DESIGNATION 6320-00-62

= 2100

= 2300

= 244

= 60/40

= 29.0%

= 65 MPH

= 1,700,000

2019

2039

CONVENTIONAL SYMBOLS

A,A,D,T,

A.A.D.T.

D.H.V.

DESIGN SPEED

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

(Box or Pipe)

MARSH AREA

PROPERTY LINE

LOT LINE

D,D,

FEB 11, 2020 STATE OF WISCONSIN ORDER OF SHEETS DEPARTMENT OF TRANSPORTATION Typical Sections and Deteils Estimete of Quentities

PLAN OF PROPOSED IMPROVEMENT

PLAINFIELD - WISCONSIN RAPIDS

VARIOUS CULVERT REPLACEMENTS

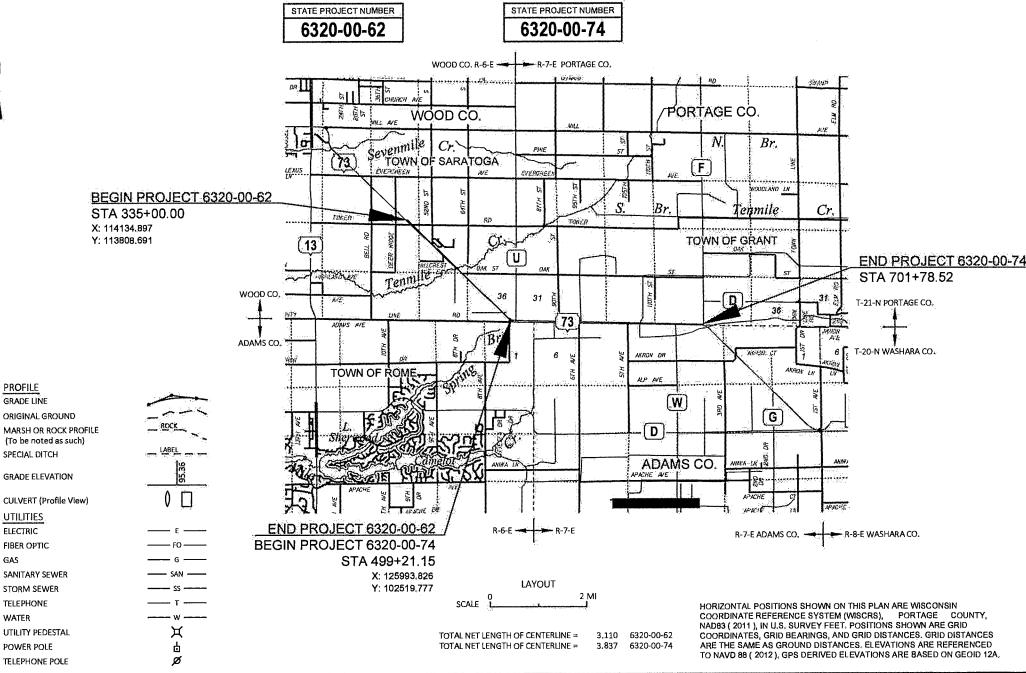
CTH F TO CTH U

STH 73

STH 73

WOOD COUNTY

ADAMS COUNTY



Suite 201 Green Bay, WI 54304-5950 920 / 592 9440 920 / 592 9445 fax DAN R.
HERZBERG
E-28226
EAU CLAIRE
WIS. 1-23-2019 STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION REPARED BY Surveyor Designer DANIEL HOLLOWAY Project Manage

ORIGINAL PLANS PREPARED BY

FEDERAL PROJECT

WISC 2019308

CONTRACT

STATE PROJECT

6320-00-62

6320-00-74

6320-00-74

= 2100

= 2300

= 24:4

= 60/40

= 29,0%

= 65 MPH

///////

= 1,700,000

PROFILE

UTILITIES

ELECTRIC

WATER

Miscelleneous Quentities

Standard Detail Drawings

Right of Way Plat Plan and Profile

Sign Plates

Cross Sactions

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHING THE FINISHED SHOULDER POINTS, SHALL BE TOPSOILED, FERTILIZED, SEEDED AND COVERED WITH EROSION MAT.

THE LOCATION OF KNOWN EXISTING UTILITIES IN THE VICINITY OF THE PROJECT ON THE PLANS IS APPROXIMATE.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER. DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER

THE BASE MAPPING DEPICTED IN THESE PLANS MAY NOT BE CURRENT.

PLEASE NOTE THAT THE TOPOGRAPHIC SURVEY FOR THIS PROJECT WAS SHOT USING WICONSIN COORDINATE REFERENCE SYSTEM (WISCRS) PORTAGE COUNTY ZONE.

WORK MUST OCCUR AFTER AUGUST 1 TO AVOID POTENTIAL IMPACTS TO KARNER BLUE BUTTERFLY LARVA.



RUNOFF COEFFICIENTS FOR SPECIFIC LAND USE

						HYDROLOGIC S	SOIL GROU	JP					
		А			E	3		C	;		D		
	SL0PE	RANGE	(PERCENT)	SL0PE	RANGE	(PERCENT)	SLOPE	SLOPE 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	.16 .30	.22 .38	.12	.20	.27 .44	.15 .30	.24 .37	.33 .50	.19	.28	.38 .56	
MEDIAN STRIP- TURF	.19	.20 .26	.24	.19 .25	.22	.26 .33	.20	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT:	ı												
ASPHALT						.7095							
CONCRETE						.8095							
BRICK						.7080							
DRIVES, WALKS						.7585							
ROOFS						.7595							
GRAVEL ROADS.	SHOULDE	ERS				.4060							

TOTAL PROJECT AREA = 46.5 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.8 ACRES

PROJECT 6320-00-74

HWY: STH 73

2/1/2019 8:02 AM

SHEET Ε

DEPT. OF NATURAL RESOURCES WISCONSIN DEPT. OF NATURAL RESOURCES

CASEY L. JONES 473 GRIFFITH AVENUE WISCONSN RAPIDS, WI 54494 (715) 421-7867 OFFICE (715) 213-6571 CELL Casey.Jones@Wisconsin.gov

UTILITY CONTACTS 6320-00-62

ADAMS-COLUMBIA ELECTRIC COOPERATIVE - ELECTRICITY DUANE MOORE ADAMS-COLUMBIA ELECTRIC COOPERATIVE - ELECTRICITY PO BOX 70 FRIENDSHIP, WI. 53934-0070 (800) 831-8629 EXT: 424 dmoore@acecwi.com

ALLIANT ENERGY MICHAEL PEETERS ALLIANT ENERGY - ELECTRICITY 2710 JEFFERSON STREET WISCONSIN RAPIDS, WI 54495 (715) 424-7039 - OFFICE (715) **459-1581** - CELL MichaelPeeters@alliantenergy.com

CHARTER COMMUNICATIONS CHARTER COMMUNICATIONS 503 EAST IZES STREET, SUITE 316 MARSHFIELD, WI 54449 (715) 651-5605 jesse.gruny@charter.com

SOLARIS

DENNIS PIERCE SOLARUS - COMMUNICATION LINE 440 E. GRAND AVENUE WISCONSIN RAPIDS, WI. 54494-8045 (715) 421-8172 OFFICE (715) 572-0152 MOBILE pierce@solarus.net

WE ENERGIES TAYLOR WIETING WE ENERGIES - GAS LINE 1921 8TH STREET S. WISCONSIN RAPIDS, WI. 54494 (715) 421-7277 OFFICE (715) 213-5189 MOBILE taylor.wieting@wecenergygroup.com

UTILITY CONTACTS 6320-00-74

ADAMS-COLUMBIA ELECTRIC COOPERATIVE - ELECTRICITY JOSH BERGER ADAMS-COLUMBIA ELECTRIC COOPERATIVE - ELECTRICITY PO BOX 70 FRIENDSHIP, WI. 53934-0070 (800) 831-8629 EXT: 244 jberger@acecwi.com

ATC MANAGEMENT, INC. - ELECTRICITY - TRANSMISSION P.O. BOX 47 WAUKESHA, WI. 53187 (262) 506-6884 cdailey@atcllc.com

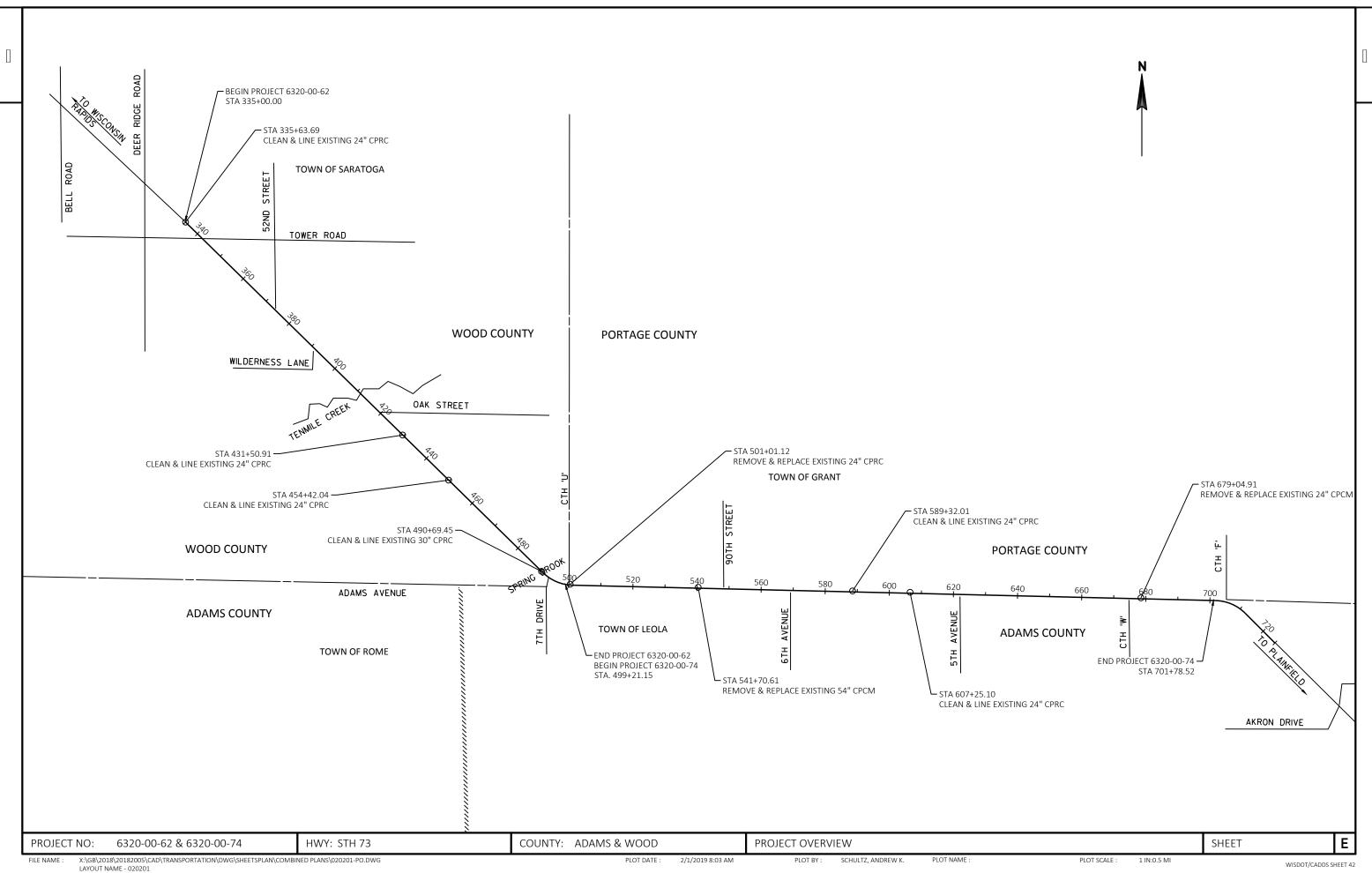
SOLARIS

DENNIS PIERCE SOLARUS - COMMUNICATION LINE 440 E. GRAND AVENUE WISCONSIN RAPIDS, WI. 54494-8045 (715) 421-8172 OFFICE (715) 572-0152 MOBILE pierce@solarus.net

UNION TELEPHONE RON BOWDEN
UNION TELEPHONE - COMMUNICATION LINE P.O. BOX 96 PLAINFIELD, WI. 54966-0096 (715) 335-6301 OFFICE (715) 572-9648 MOBILE

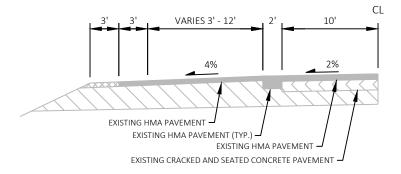
rbowden@uniontel.net

PROJECT NO: COUNTY: ADAMS & WOOD **GENERAL NOTES** 6320-00-62 & 6320-00-74 FILE NAME .



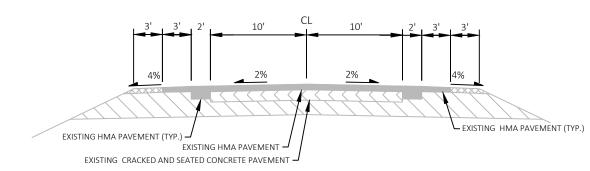
EXISTING TYPICAL SECTION

STA 335+00.00 - STA 499+21.15



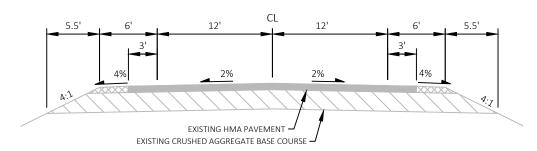
EXISTING TYPICAL HALF SECTIONS

STA. 670+82 - STA. 677+19



EXISTING TYPICAL SECTIONS

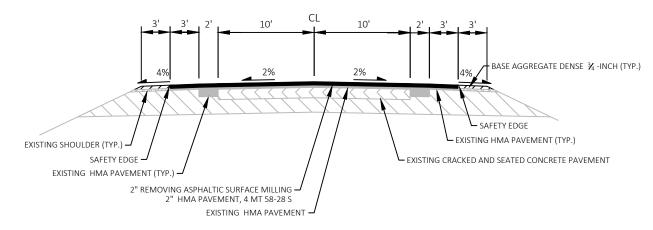
STA. 499+21 - STA. 700+00



EXISTING TYPICAL SECTIONS

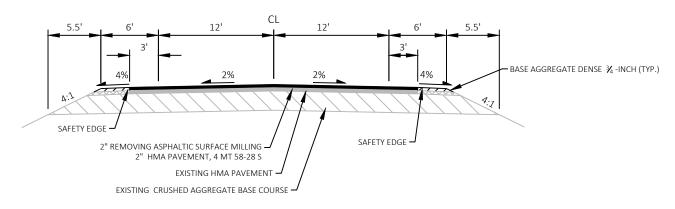
STA. 700+00 - STA. 701+78

PROJECT NO: 6320-00-62 & 6320-00-74 HWY: STH 73 COUNTY: ADAMS & WOODS TYPICAL SECTIONS SHEET **E**



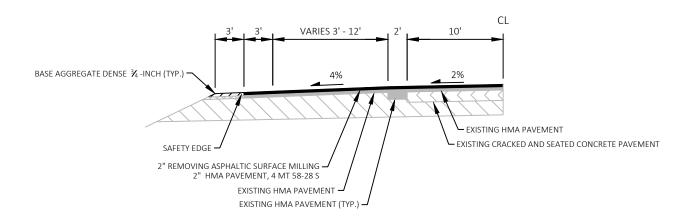
TYPICAL FINISHED SECTIONS

STA. 499+21 - STA. 700+00



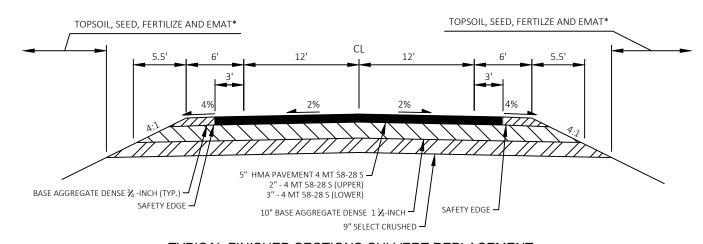
TYPICAL FINISHED SECTIONS

STA. 700+00 - STA. 701+78



TYPICAL FINISHED HALF SECTIONS

STA. 670+82 - STA. 677+19

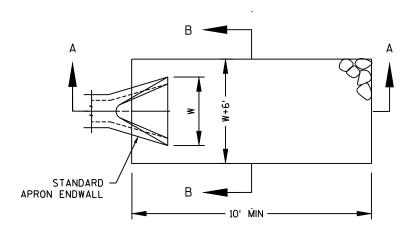


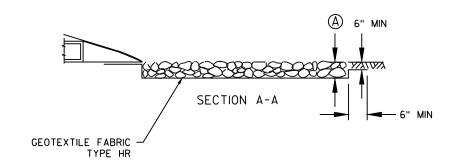
TYPICAL FINISHED SECTIONS CULVERT REPLACEMENT

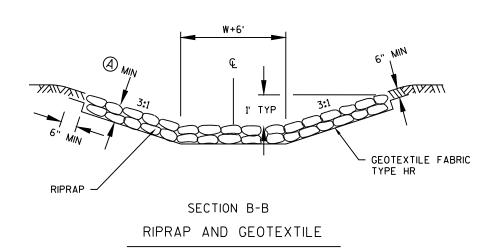
STA. 500+49 - STA. 501+53 STA. 541+16 - STA. 542+25 STA. 678+53 - STA. 679+57

* SEE CULVERT REPLACEMENT CONSTRUCTION DETAILS FOR LIMITS

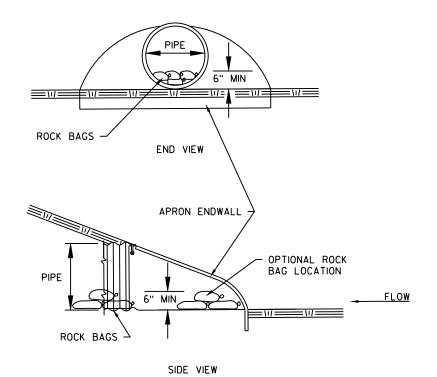
Ε PROJECT NO: 6320-00-62 7 6320-00-74 HWY: STH 73 COUNTY: ADAMS & WOOD **TYPICAL SECTIONS** SHEET FILE NAME :





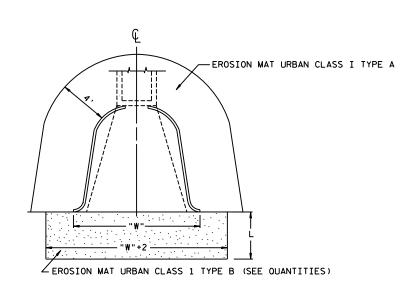


NOTE : (A) = 1' FOR RIPRAP; 1.5' FOR MEDIUM RIPRAP; 2' FOR HEAVY RIPRAP



CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

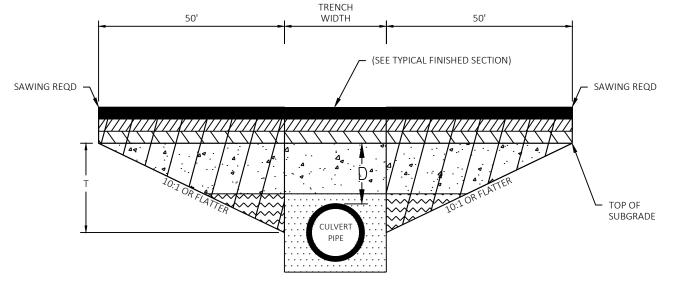


EROSION CONTROL AT PIPE ENDS

L = 3 TIMES DIAMETER OR 10' MIN INCREASE IF WARRANTED

PROJECT NO: 6320-00-62 & 6320-00-74 HWY: STH 73 COUNTY: ADAMS & WOOD CONSTRUCTION DETAILS SHEET **E**

PLOT SCALE :



TRANSITION CUT DEPTH (T) = THE LESSER OF DO NOT EXTEND TRANSITION CUT BELOW HORIZONTAL CENTER OF PIPE.

DEPTH D < 6 FT



HMA PAVEMENT



TRENCH BACKFILL



TRENCH OR FOUNDATION BACKFILL



FOUNDATION BACKFILL



TRANSITION CUT



BASE AGGREGATE



DENSE 1-1/4 INCH



SELECT CRUSHED

NOTES

PROJECT NO:

TRANSITION CUT IS PAID AS EXCAVATION COMMON.

TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT.

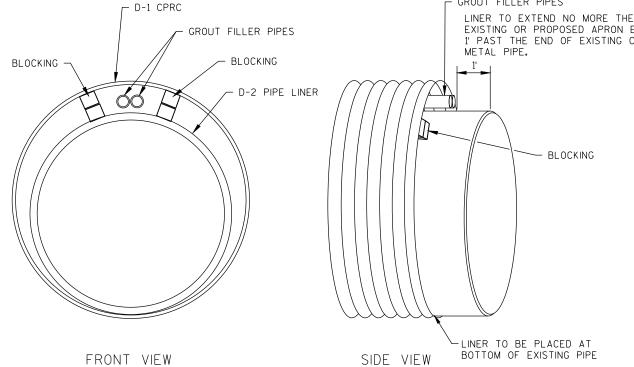
TRENCH BACKFILL AND FOUNDATION BACKFILL USED IN TRANSITION CUT AREA IS INCIDENTAL TO PIPE INSTALLATION (PER STD SPEC 520). PERFORM CULVERT PIPE REPLACEMENT PRIOR TO CIR AND PAVING

PLACE ASPHALTIC SURFACE TO MATCH ADJACENT ASPHALT THICKNESS AFTER PIPE INSTALLATION

II L. ERT PIPE TRANSITION

STH 73 STA 501+01 D=0.4 FT 24-INCH STH 73 STA 541+71 D=1.8 FT 54-INCH STH 73 STA 679+05 D=0.0 FT 24-INCH	ROUTE	STA (CL)	DEPTH D (FT)	PIPE DIA (IN)	REMARKS	
	STH 73	STA 501+01	D=0.4 FT	24-INCH		
STH 73 STA 679+05 D=0.0 FT 24-INCH	STH 73	STA 541+71	D=1.8 FT	54-INCH		
	STH 73	STA 679+05	D=0.0 FT	24-INCH		

HWY: STH 73



PIPE LINER DETAIL

STA.	<u>D-1</u>	<u>D-2</u>
335+64	24" ID	??" ID MIN
431+51	24" ID	??" ID MIN
454+42	24" ID	??" ID MIN
490+69	30" ID	SS ID WIN
589+32	24" ID	??" ID MIN
607+25	24" ID	33 ID WIN

COUNTY: ADAMS & WOOD CONSTRUCTION DETAILS SHEET Ε

X:\GB\2018\2018\2015\CAD\TRANSPORTATION\DWG\SHEETSPLAN\COMBINED PLANS\021001_CD.DWG LAYOUT NAME - 021002

6320-00-62 & 6320-00-74

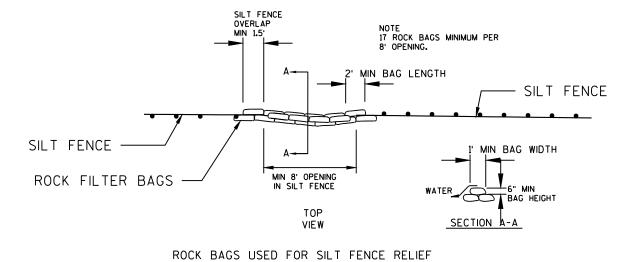
PLOT DATE :

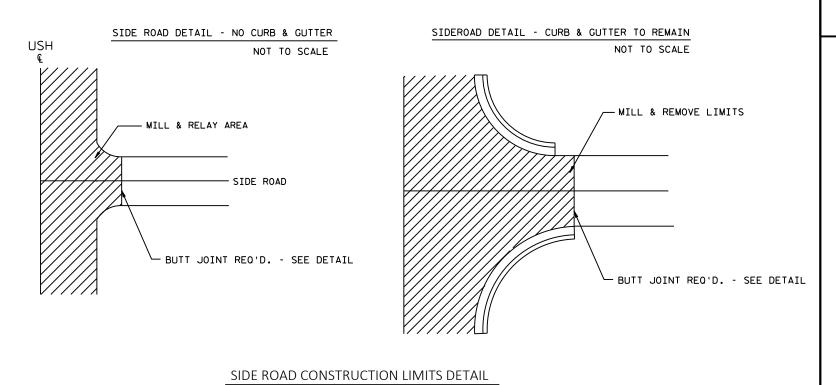
2/1/2019 8:03 AM

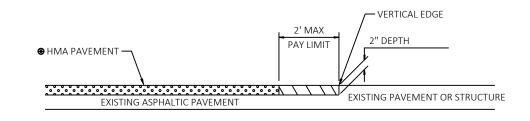
SCHULTZ, ANDREW K.

PLOT NAME

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







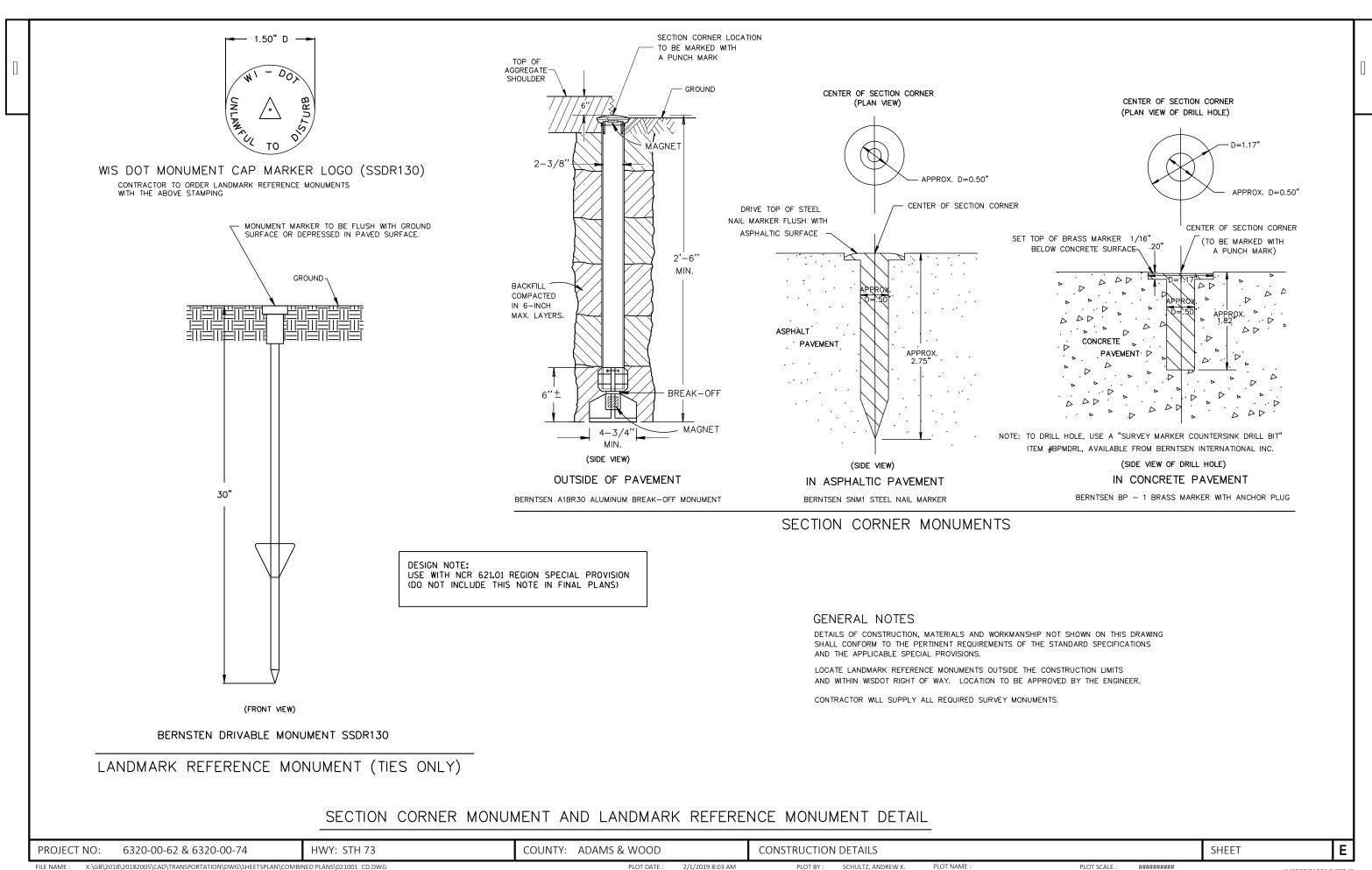
SEE TYPICAL SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

REMOVING ASPHALTIC SURFACE, MILLING

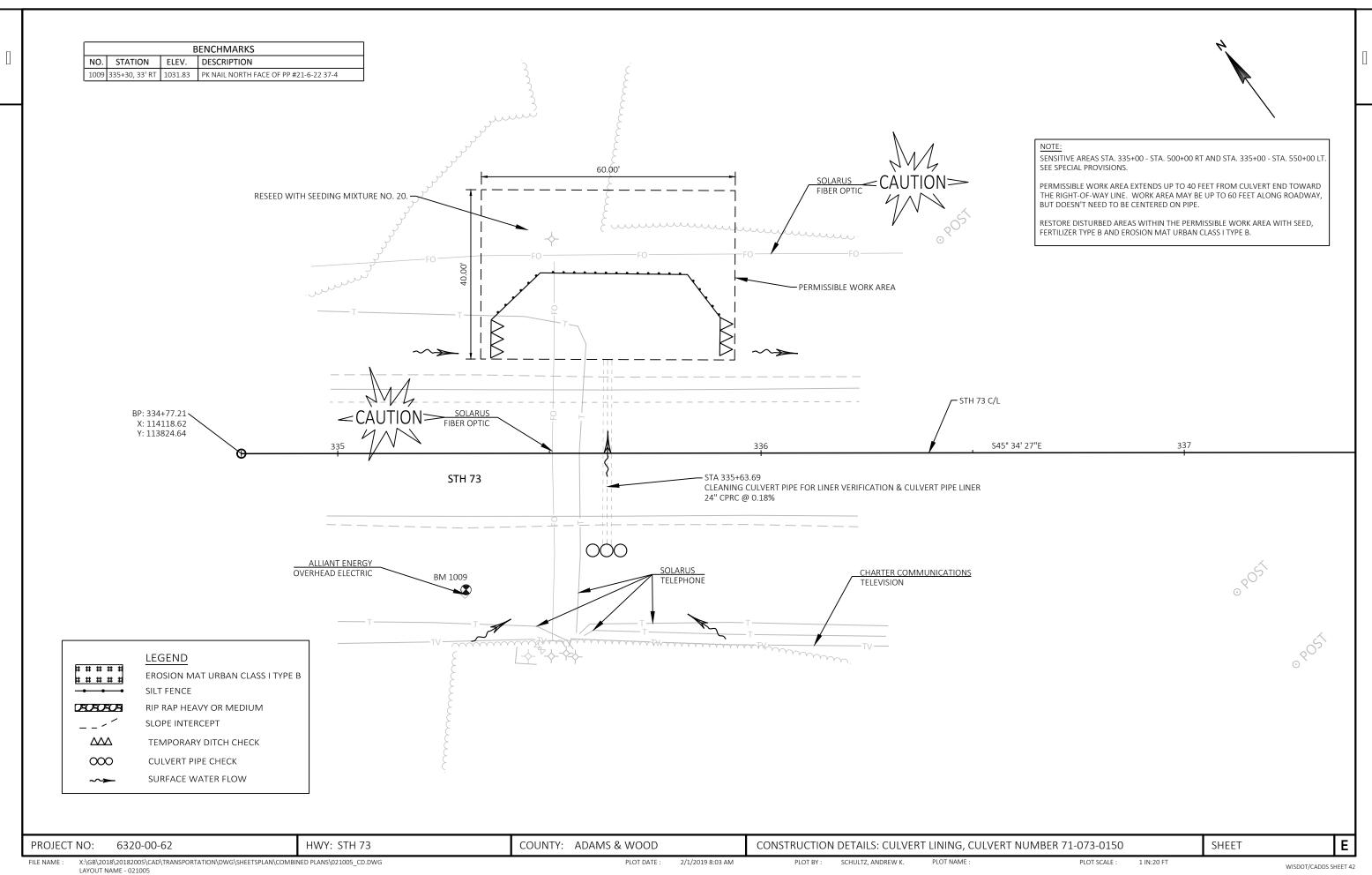
REMOVE ASPHALTIC SURFACE WEDGE AT BUTT JOINT TO CREATE VERTICAL EDGE

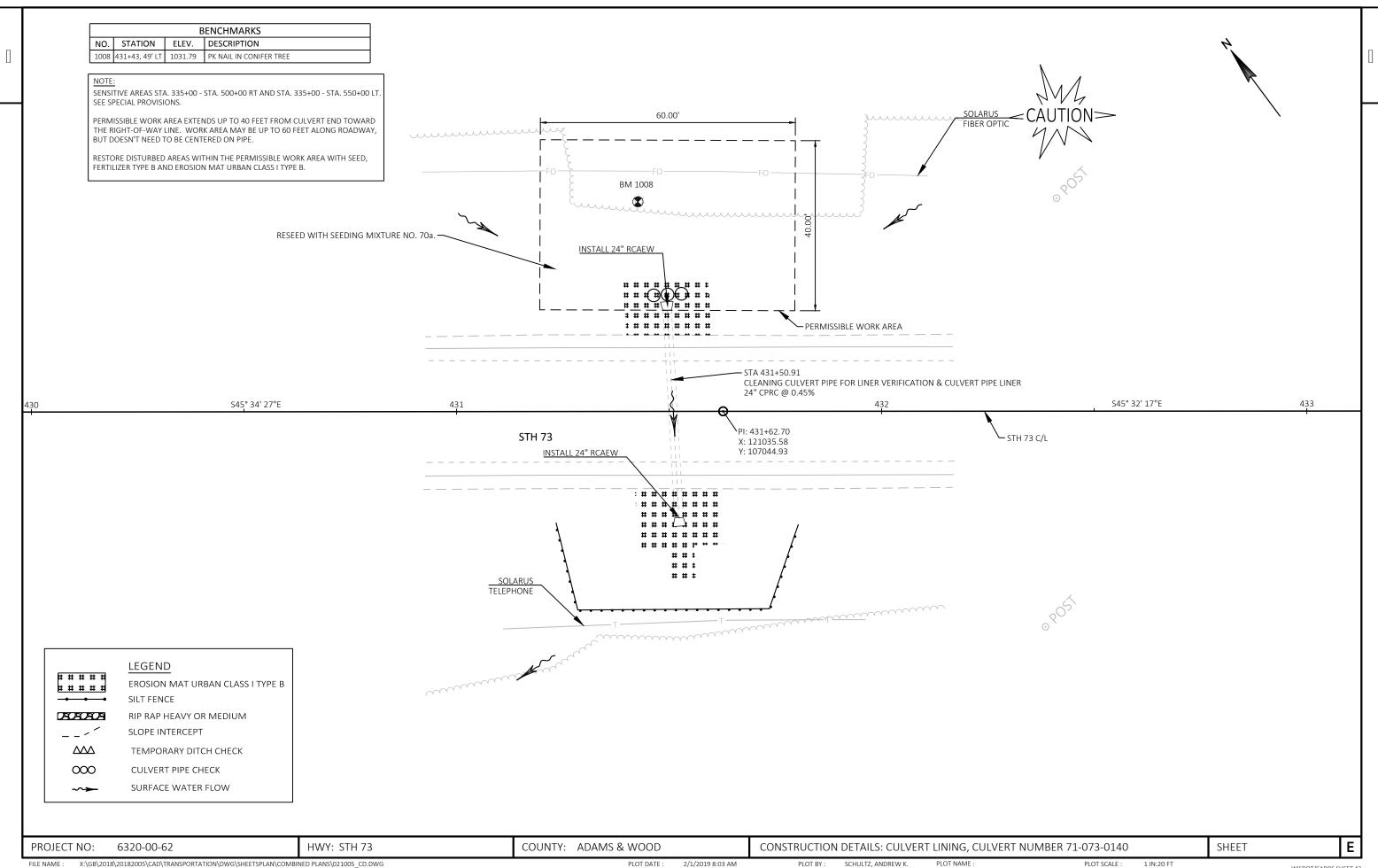
BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS (NO PROFILE CHANGE)

COUNTY: ADAMS & WOOD CONSTRUCTION DETAILS PROJECT NO: 6320-00-62 & 6320-00-74 HWY: STH 73 SHEET



WISDOT/CADDS SHEET 42 LAYOUT NAME - 021007

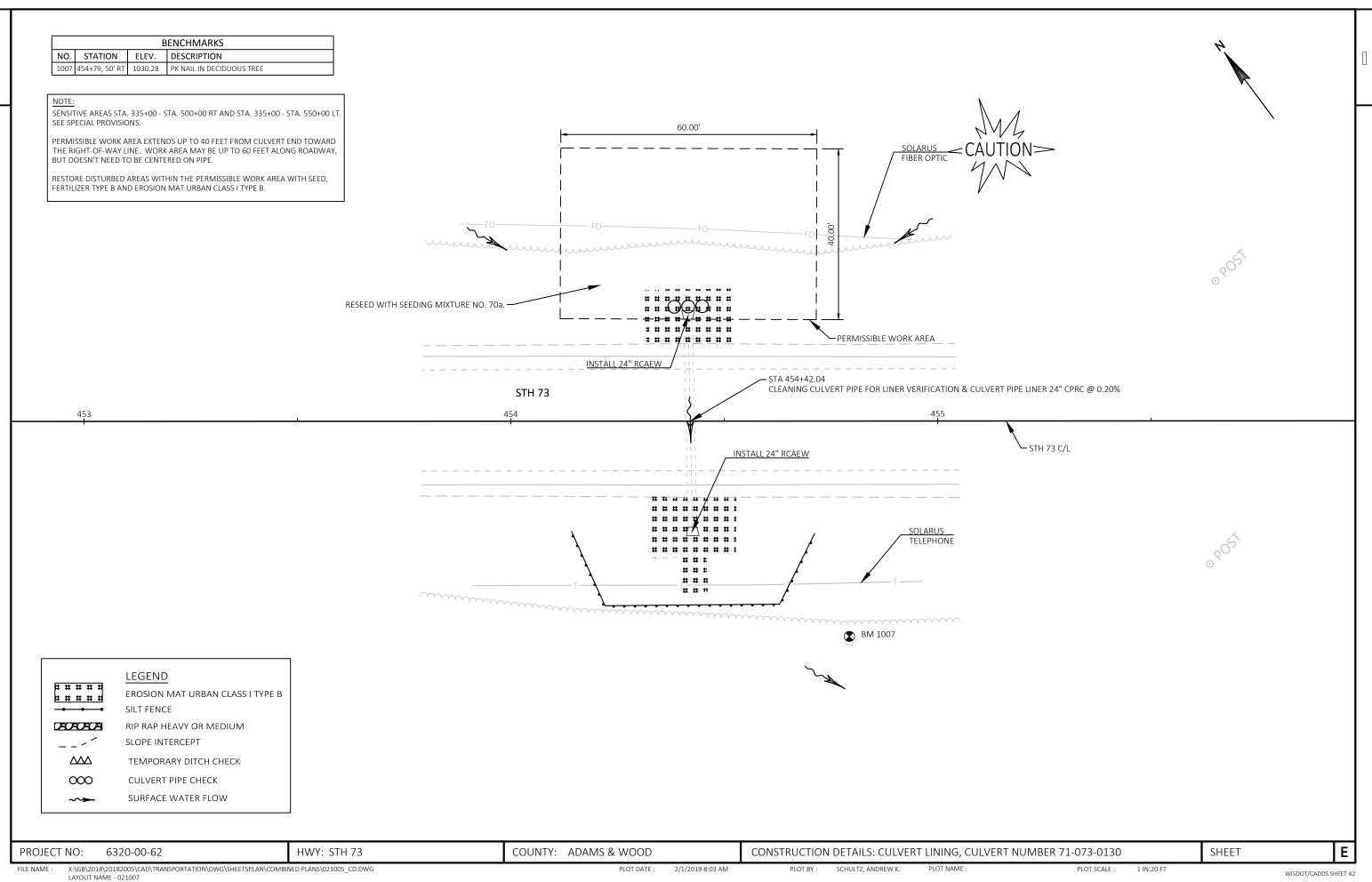




X:\GB\2018\2018\2015\CAD\TRANSPORTATION\DWG\SHEETSPLAN\COMBINED PLANS\021005_CD.DWG LAYOUT NAME - 021006

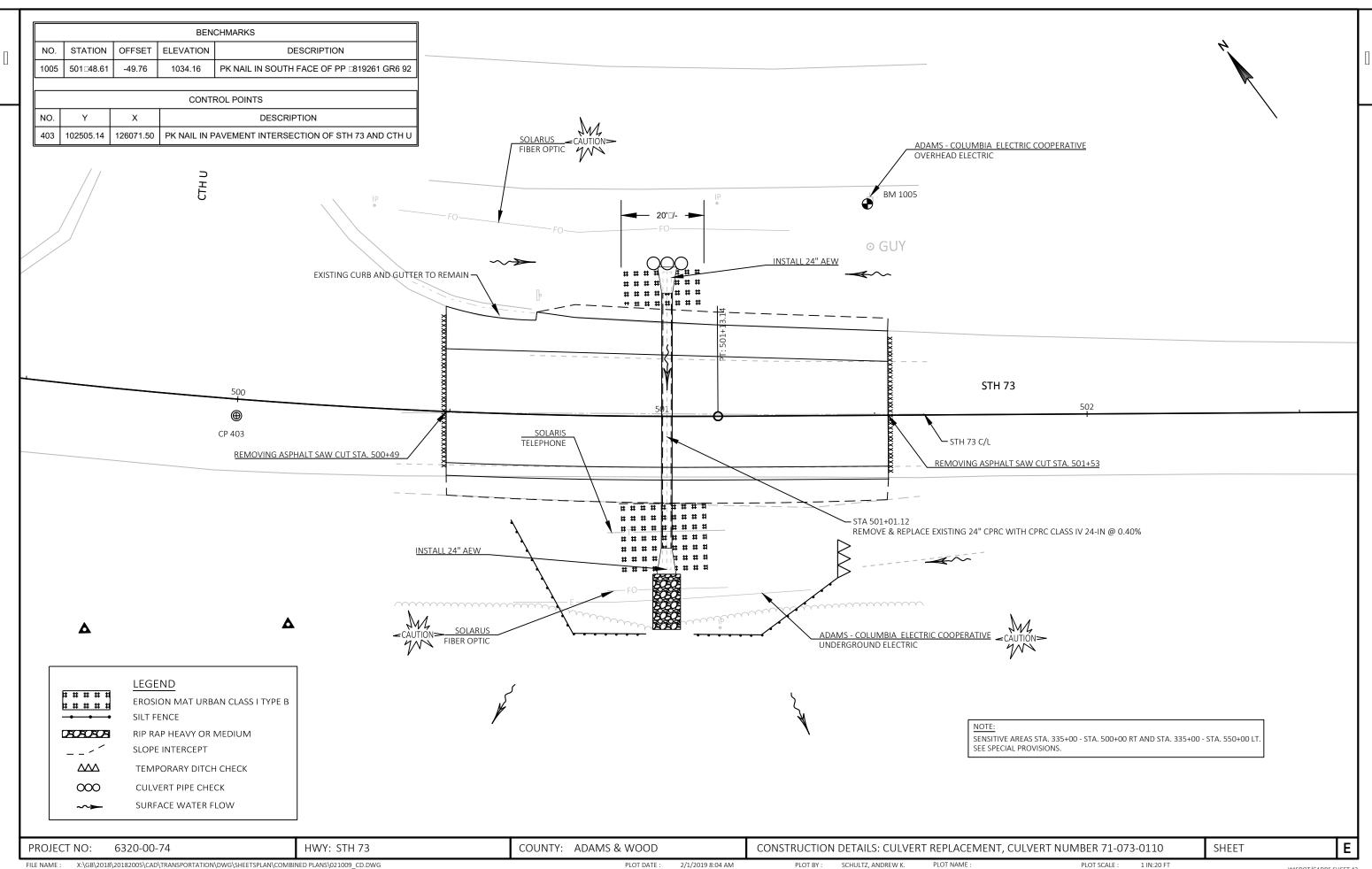
PLOT NAME :

WISDOT/CADDS SHEET 42

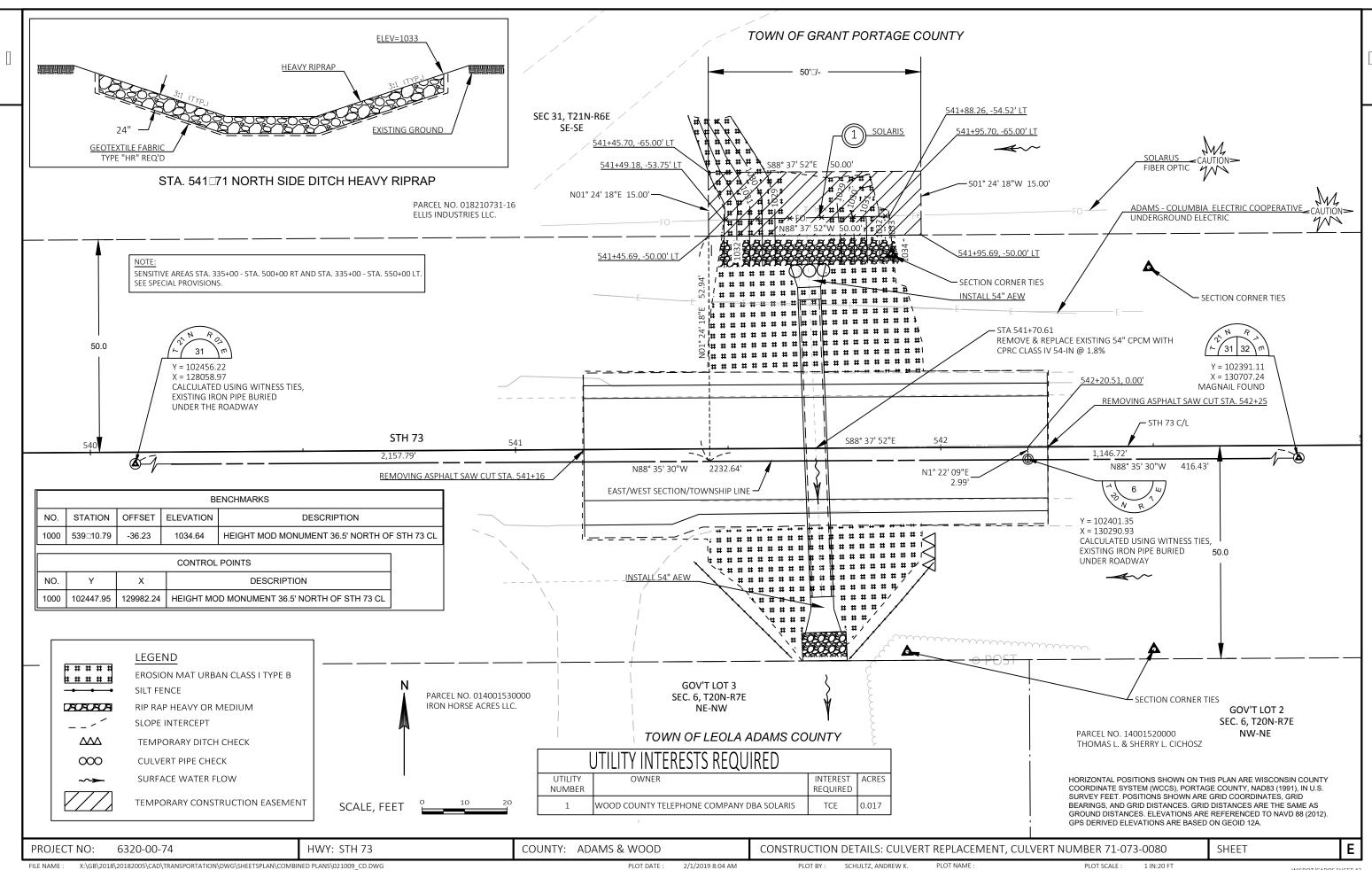


BENCHMARKS NO. STATION ELEV. DESCRIPTION 1006 490+78, 66' RT PK NAIL IN CONIFER TREE - SPRING BROOK NOTE: 60.00' SENSITIVE AREAS STA. 335+00 - STA. 500+00 RT AND STA. 335+00 - STA. 550+00 LT SEE SPECIAL PROVISIONS. PERMISSIBLE WORK AREA EXTENDS UP TO 40 FEET FROM CULVERT END TOWARD THE RIGHT-OF-WAY LINE. WORK AREA MAY BE UP TO 60 FEET ALONG ROADWAY, BUT DOESN'T NEED TO BE CENTERED ON PIPE. RESTORE DISTURBED AREAS WITHIN THE PERMISSIBLE WORK AREA WITH SEED, FERTILIZER TYPE B AND EROSION MAT URBAN CLASS I TYPE B. $\Theta\Theta\Theta$ PERMISSIBLE WORK AREA RESEED WITH SEEDING MIXTURE NO. 70. STH 73 490 STH 73 C/L -STA 490+69.45 -CLEANING CULVERT PIPE FOR LINER VERIFICATION & CULVERT PIPE LINER 30" CPRC @ 0.12% LEGEND #### EROSION MAT URBAN CLASS I TYPE B ##### SILT FENCE RORURUR RIP RAP HEAVY OR MEDIUM SLOPE INTERCEPT - SPRING BROOK $\Delta\Delta\Delta$ TEMPORARY DITCH CHECK 000 CULVERT PIPE CHECK SURFACE WATER FLOW PROJECT NO: 6320-00-62 HWY: STH 73 COUNTY: ADAMS & WOOD CONSTRUCTION DETAILS: CULVERT LINING, CULVERT NUMBER 71-073-0120 SHEET $X: GB\2018\2018\2005\CAD\TRANSPORTATION\DWG\SHEETSPLAN\COMBINED\PLANS\021005_CD.DWG\LAYOUT\ NAME-021008$ PLOT NAME : FILE NAME : PLOT DATE : 2/1/2019 8:04 AM PLOT BY: SCHULTZ, ANDREW K. PLOT SCALE : 1 IN:20 FT

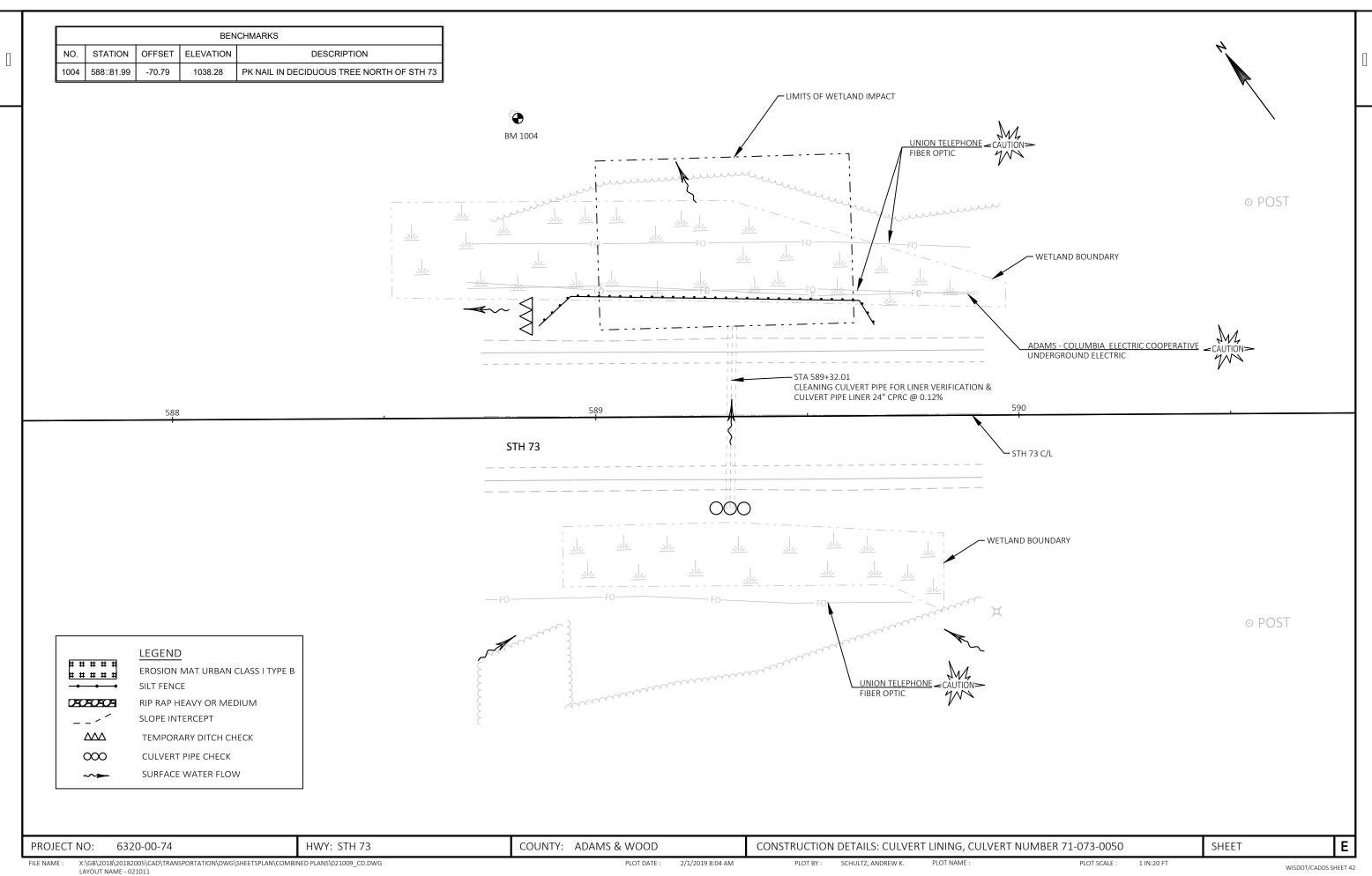
WISDOT/CADDS SHEET 42



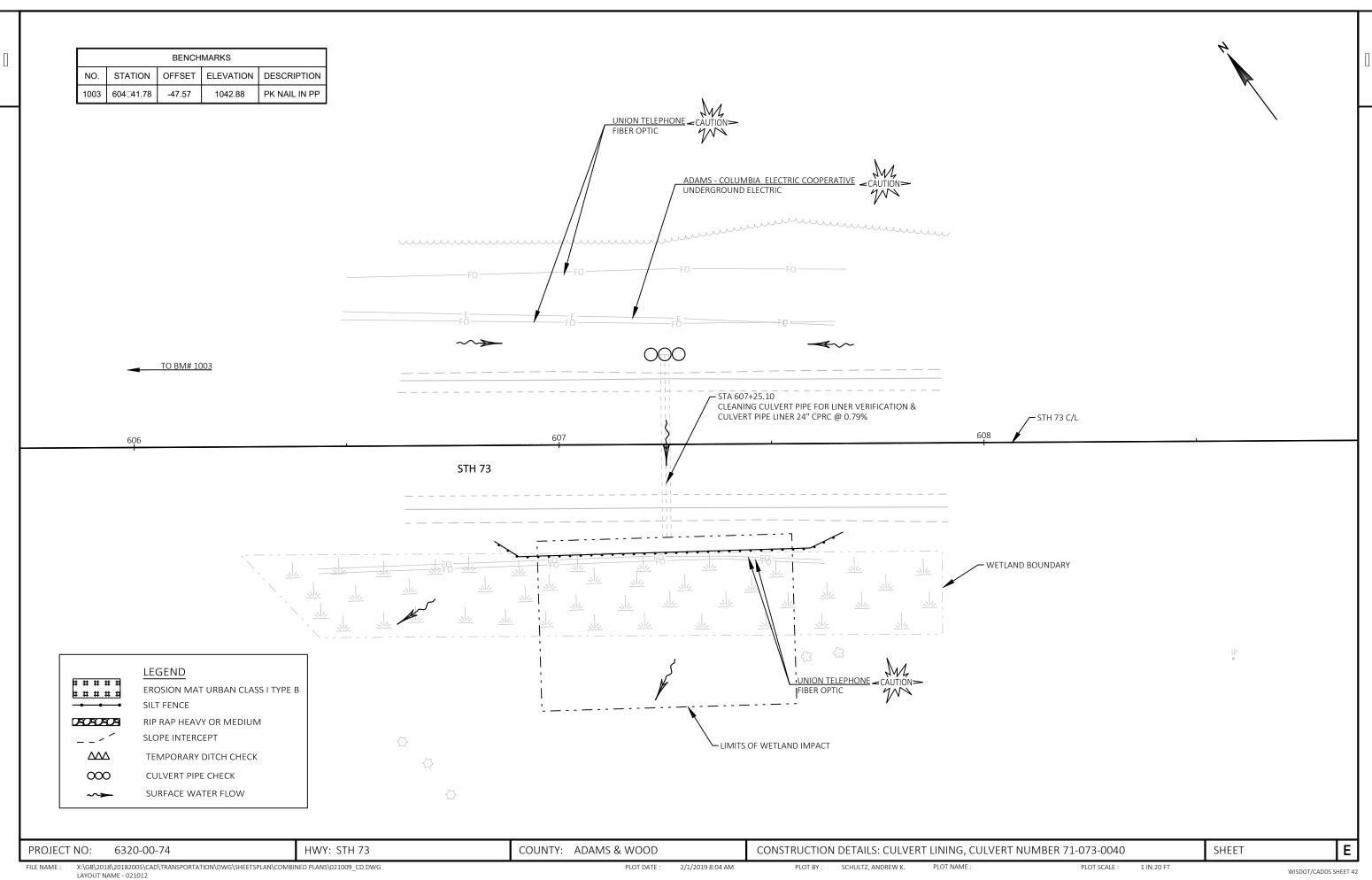
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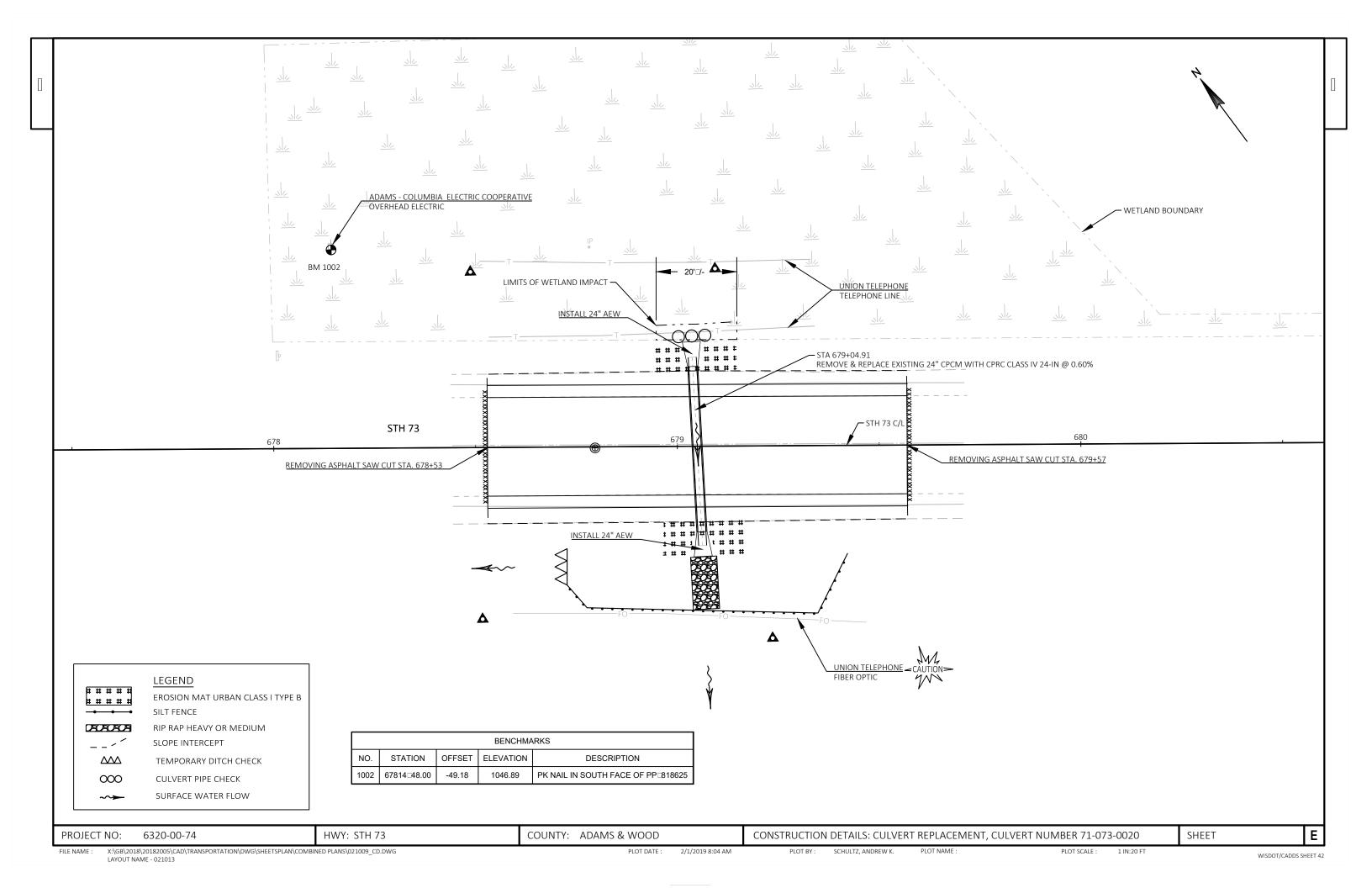


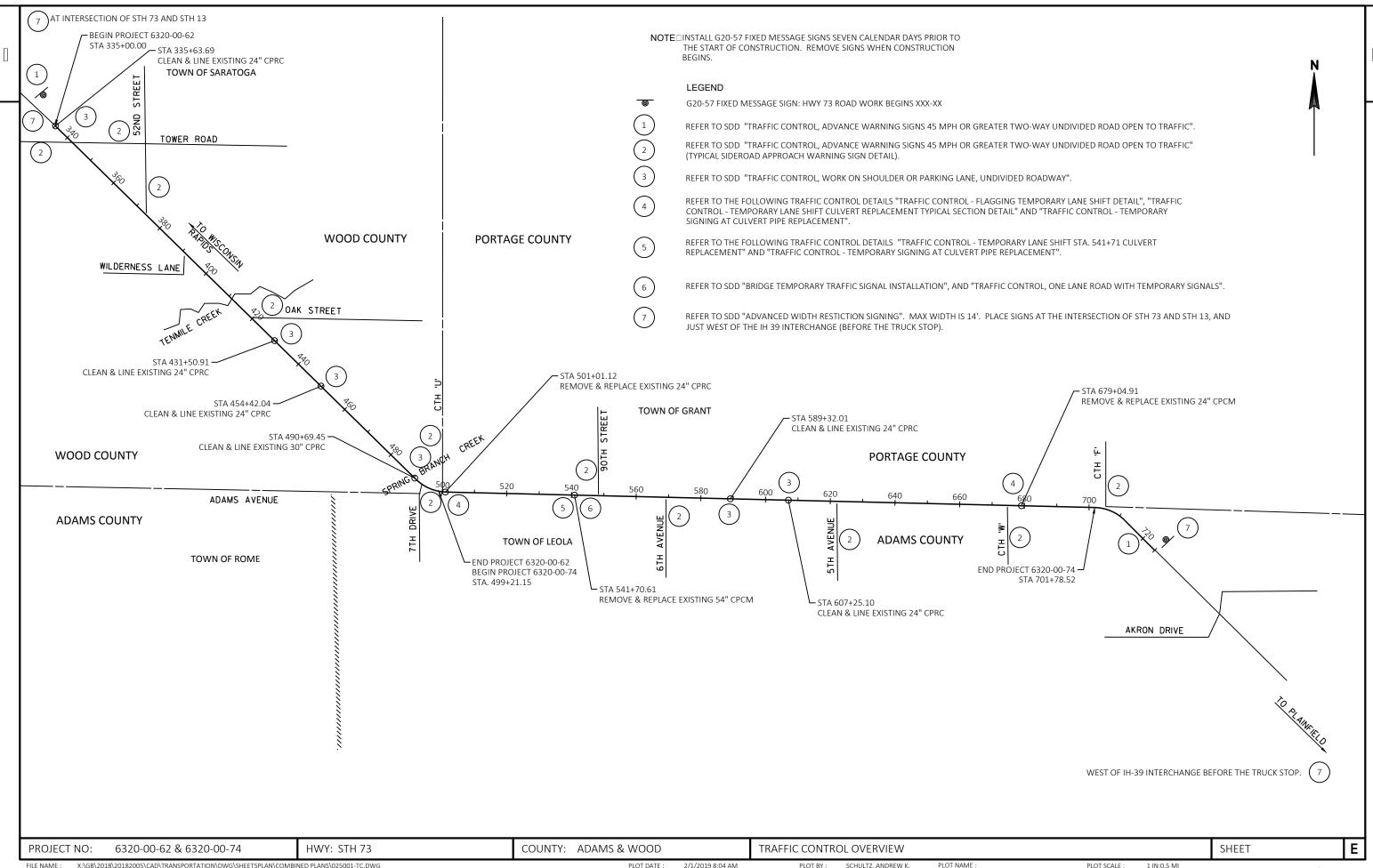
LAYOUT NAME - 021010



WISDOT/CADDS SHEET 42







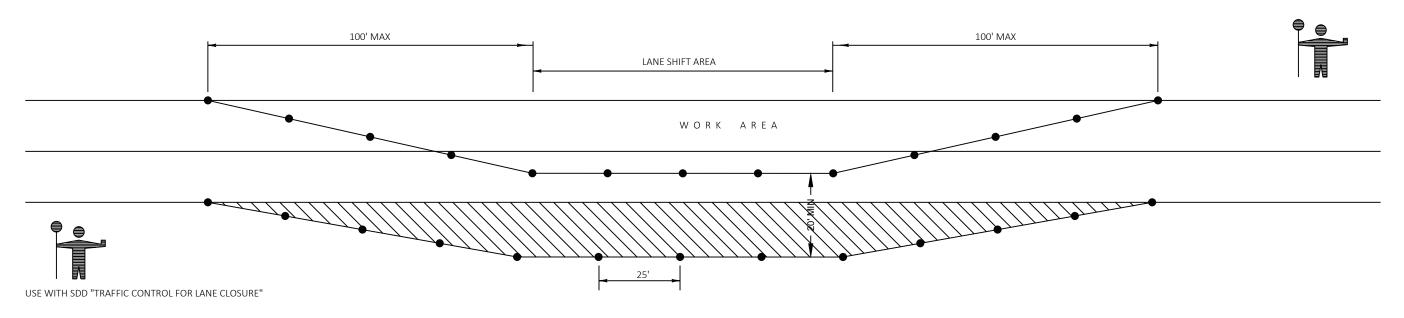
LAYOUT NAME - 025001

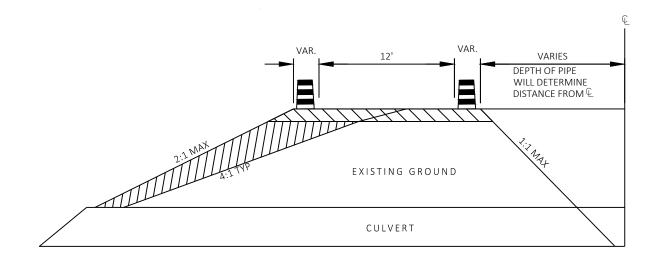
PLOT SCALE:

WISDOT/CADDS SHEET 42



USE WITH SDD "TRAFFIC CONTROL FOR LANE CLOSURE"





1. THE TAPER SHOULD EXTEND ACROSS THE SHOULDER UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION

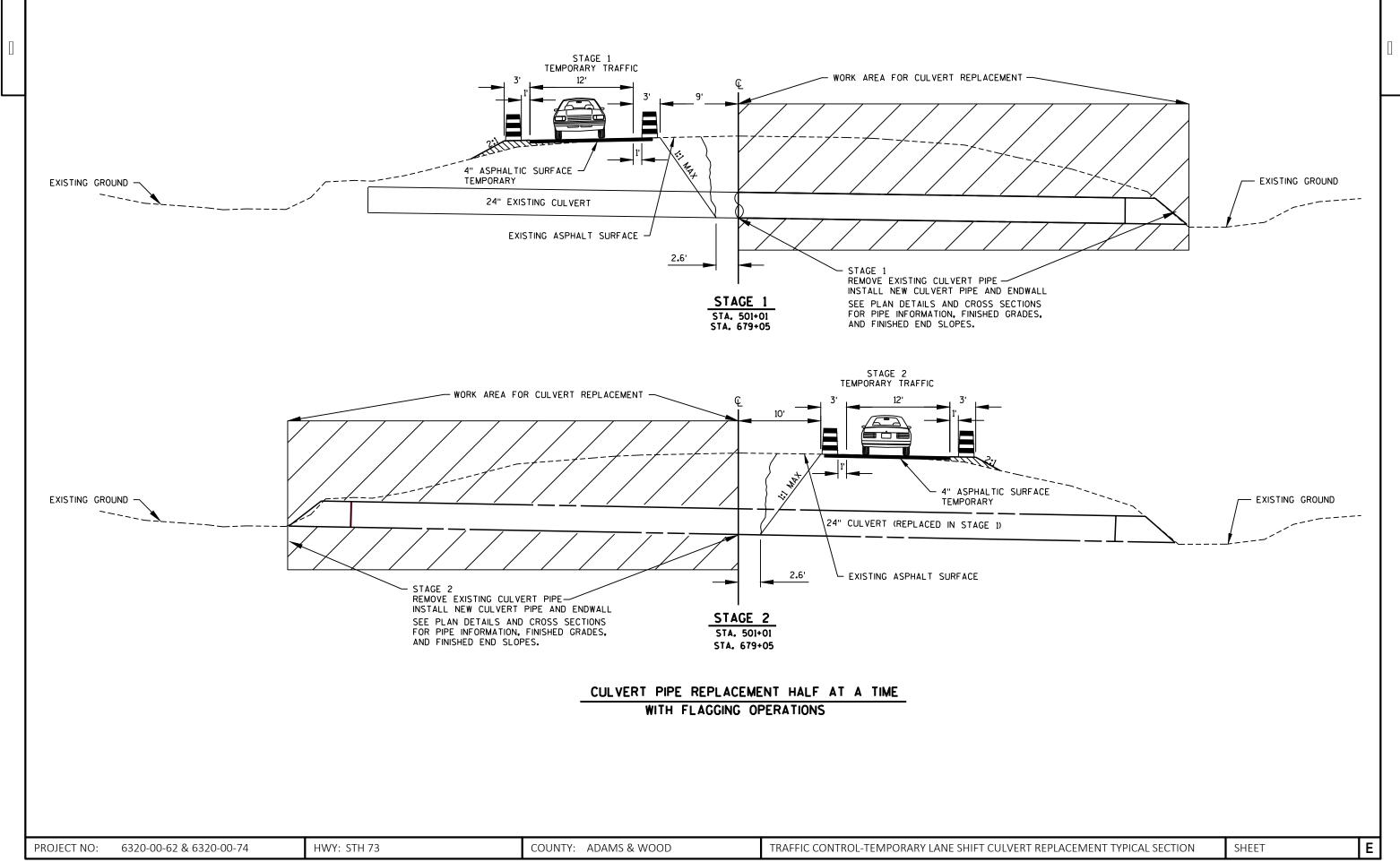
NOTES

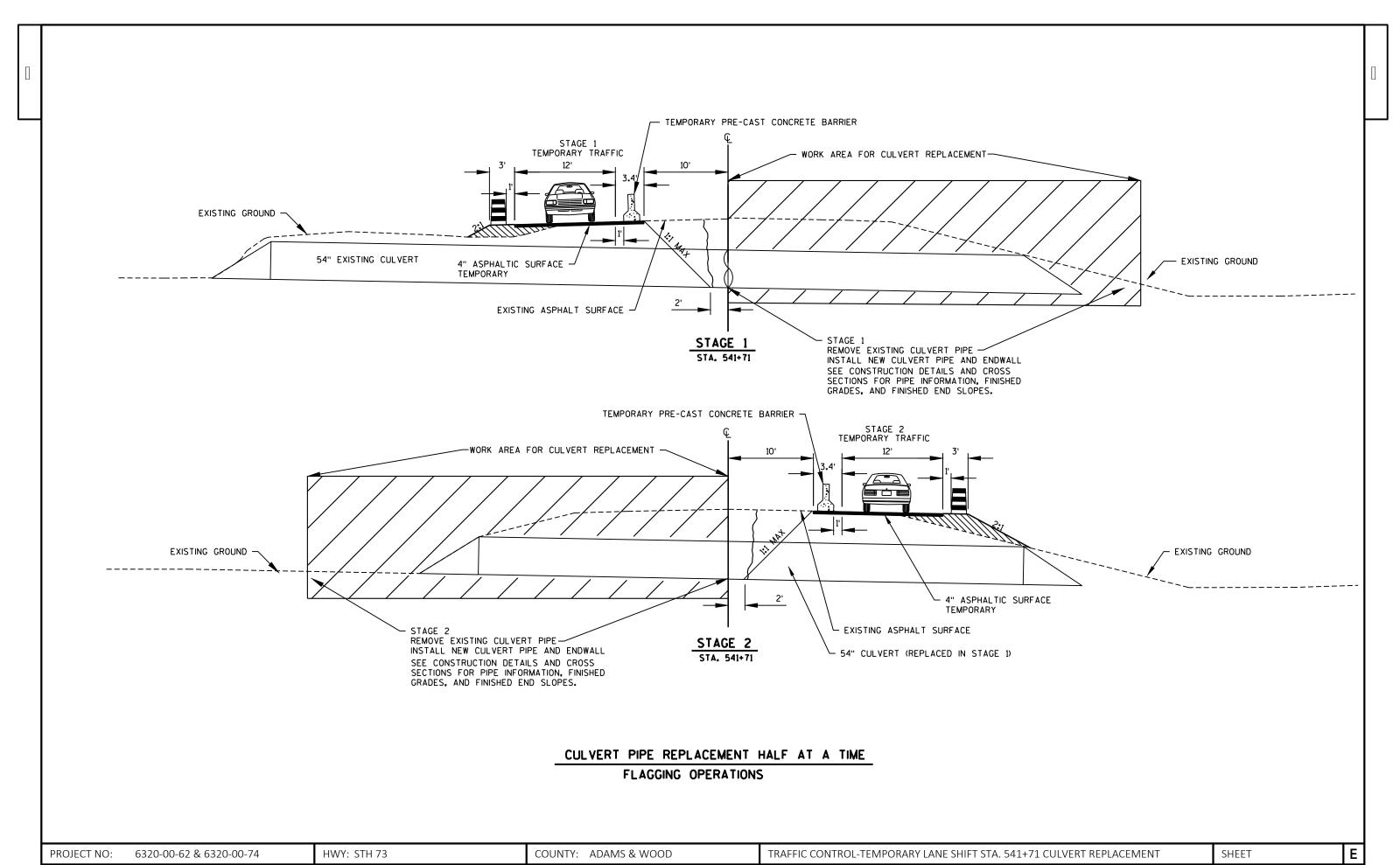
- 2. ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL DEVICES REMOVED BEYOND THE SHOULDER WHEN WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION
- 3. CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE WHEN WORK IS NOT IN PROGRESS
- 4. USE WITH SDD "TRAFFIC CONTROL FOR LANE CLOSURE"
- 5. SEE "CULVERT PIPE REPLACEMENT HALF AT A TIME WITH FLAGGING OPERATIONS" FOR SHY DISTANCES AT REQUIRED STATIONS.

 DRUM WITHOUT WARNING LIGHT 6" BASE AGGREGATE DENSE 1 1/4 INCH - INCIDENTAL TO LANE SHIFT ITEM TTTT FILL - INCIDENTAL TO LANE SHIFT ITEM

LANE SHIFT DETAIL

PROJECT NO: 6320-00-62 & 6320-00-74 HWY: STH 73 COUNTY: ADAMS & WOOD TRAFFIC CONTROL-FLAGGING TEMPORARY LANE SHIFT DETAIL SHEET 2/1/2019 8:04 AM

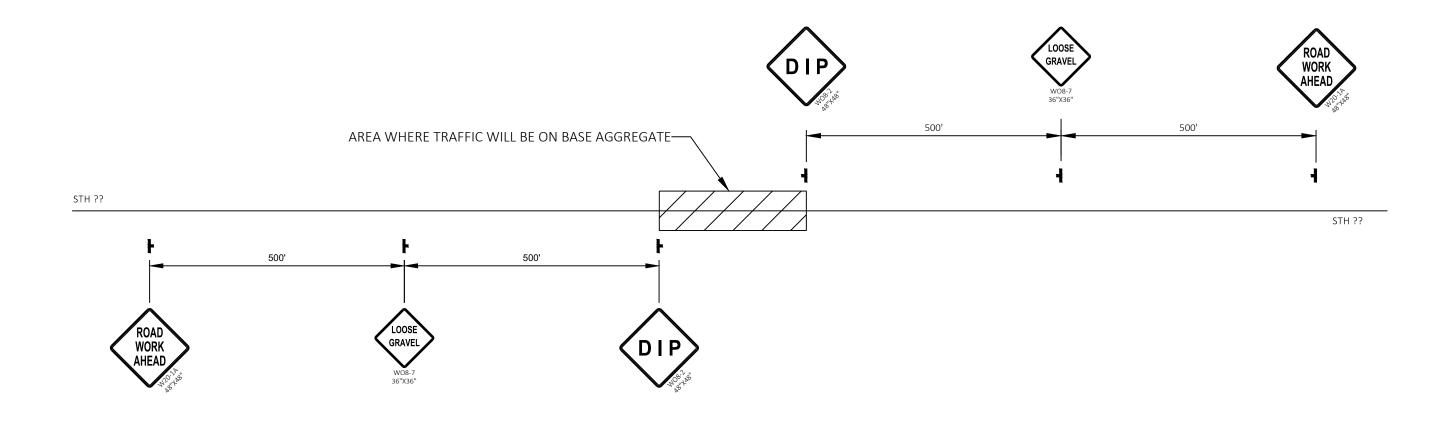




FILE NAME: X:\(\sqrt{\g}\)\(\sq







LOOSE GRAVEL SIGNING

STA. 501+01 STA. 541+71 STA. 679+05

PROJECT NO: 6320-00-62 & 6320-00-74 HWY: STH 73 COUNTY: ADAMS & WOOD TRAFFIC CONTROL-TEMPORARY SIGNING AT CULVERT PIPE REPLACEMENT SHEET

FILE NAME : X:\GB\2018\2018\2018\2018\CAD\TRANSPORTATION\DWG\SHEETSPLAN\COMBINED PLANS\025001-TC.DWG LAYOUT NAME - 025005

PLOT DATE : 2/1/2019 8:05 AM

PLOT BY: SCHULTZ, ANDREW K.

PLOT NAME :

PLOT SCALE: 1 IN:10 FT

WISDOT/CADDS SHEET 42

Ε

3

0074

628.2008

Erosion Mat Urban Class I Type B

Estimate Of Quantities

6320-00-62 6320-00-74 Line Item **Item Description** Unit Total Qty Qty Removing Small Pipe Culverts 3.000 0002 203.0100 **EACH** 3.000 0004 204.0115 Removing Asphaltic Surface Butt Joints SY 47.000 47.000 0006 204.0120 Removing Asphaltic Surface Milling SY 69,515.000 69,515.000 8000 4.000 204.9060.S Removing (item description) 01. Culvert EndwallIs EACH 4.000 0010 205.0100 **Excavation Common** CY 1,754.000 1,754.000 LS 0012 211.0100 Prepare Foundation for Asphaltic Paving (project) 01. 1.000 1.000 0014 213.0100 Finishing Roadway (project) 01. 6320-00-62 **EACH** 1.000 1.000 EACH 0016 213.0100 Finishing Roadway (project) 02. 6320-00-74 1.000 1.000 0018 305.0110 Base Aggregate Dense 3/4-Inch TON 1,959.000 5.000 1,954.000 0020 305.0120 Base Aggregate Dense 1 1/4-Inch TON 658.000 658.000 0022 312.0110 Select Crushed Material TON 564.000 564.000 0024 450.4000 HMA Cold Weather Paving TON 900.000 900.000 0026 Tack Coat GAL 4,866.000 4,866.000 455.0605 0028 460.2000 Incentive Density HMA Pavement DOL 5,450.000 5,450.000 0030 460.6224 HMA Pavement 4 MT 58-28 S TON 8,652.000 8,652.000 0032 465.0475 Asphalt Centerline Rumble Strips 2-Lane Rural LF 18,390.000 18,390.000 0034 520.9700.S Culvert Pipe Liners (size) 01. 24-Inch LF 200.000 120.000 80.000 0036 520.9700.S Culvert Pipe Liners (size) 02. 30-Inch LF 56.000 56.000 0038 520.9750.S Cleaning Culvert Pipes for Liner Verification **EACH** 6.000 4.000 2.000 0040 Culvert Pipe Reinforced Concrete Class IV 24-Inch 101.000 101.000 0042 522.0454 Culvert Pipe Reinforced Concrete Class IV 54-Inch 73.000 73.000 0044 522.1024 EACH 8.000 4.000 Apron Endwalls for Culvert Pipe Reinforced Concrete 4.000 24-Inch 0046 522.1054 Apron Endwalls for Culvert Pipe Reinforced Concrete EACH 2.000 2.000 LF 150.000 150.000 0048 603.8000 Concrete Barrier Temporary Precast Delivered LF 0050 300.000 300.000 603.8125 Concrete Barrier Temporary Precast Installed 0052 606.0200 CY 11.400 11.400 Riprap Medium 0054 CY 29.000 29.000 606.0300 Riprap Heavy Maintenance And Repair of Haul Roads (project) 01. 0056 618.0100 EACH 1.000 1.000 6320-00-74 0058 0.850 619.1000 Mobilization **EACH** 1.000 0.150 EACH 3.000 3.000 0060 621.0100 Landmark Reference Monuments MGAL 0062 624.0100 26.100 26.100 Water 0064 625.0100 Topsoil SY 2,700.000 1,495.000 1,205.000 LF 0066 628.1504 Silt Fence 865.000 334.000 531.000 LF 334.000 531.000 0068 628.1520 Silt Fence Maintenance 865.000 0070 628.1905 Mobilizations Erosion Control **EACH** 18.000 8.000 10.000 0072 628.1910 Mobilizations Emergency Erosion Control **EACH** 18.000 8.000 10.000

SY

2,006.000

1,493.000

513.000

3

Line	Item	Item Description	Unit	Total	Qty	Qty	
0076	628.7504	Temporary Ditch Checks	LF	178.000	88.000	90.000	
0078	628.7555	Culvert Pipe Checks	EACH	43.000	15.000	28.000	
0800	629.0210	Fertilizer Type B	CWT	1.700	0.940	0.760	
0082	630.0120	Seeding Mixture No. 20	LB	9.000	9.000		
0084	630.0170	Seeding Mixture No. 70	LB	5.500	1.200	4.300	
0086	630.0171	Seeding Mixture No. 70A	LB	3.000	3.000		
8800	630.0500	Seed Water	MGAL	15.200	8.400	6.800	
0116	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	40,053.000		40,053.000	
100	643.0300	Traffic Control Drums	DAY	201.000	32.000	169.000	
102	643.0420	Traffic Control Barricades Type III	DAY	3.000		3.000	
104	643.0715	Traffic Control Warning Lights Type C	DAY	30.000		30.000	
106	643.0900	Traffic Control Signs	DAY	1,239.000	481.000	758.000	
108	643.1000	Traffic Control Signs Fixed Message	SF	64.000	32.000	32.000	
110	643.5000	Traffic Control	EACH	1.000	0.150	0.850	
112	645.0120	Geotextile Type HR	SY	66.300		66.300	
114	646.1020	Marking Line Epoxy 4-Inch	LF	7,536.000		7,536.000	
118	648.0100	Locating No-Passing Zones	MI	3.840		3.840	
120	649.0105	Temporary Marking Line Paint 4-Inch	LF	8,077.000		8,077.000	
122	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	24.000		24.000	
124	650.6000	Construction Staking Pipe Culverts	EACH	3.000		3.000	
126	650.8000	Construction Staking Resurfacing Reference	LF	19,941.000		19,941.000	
128	650.9910	Construction Staking Supplemental Control (project) 01. 6320-00-74	LS	1.000		1.000	
130	650.9920	Construction Staking Slope Stakes	LF	317.000		317.000	
132	661.0100	Temporary Traffic Signals for Bridges (structure) 01. C-71-073-0080	LS	1.000		1.000	
134	690.0150	Sawing Asphalt	LF	193.000		193.000	
136	740.0440	Incentive IRI Ride	DOL	15,348.000		15,348.000	
138	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000		
140	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000		
142	SPV.0060	Special 01. Lane Shift	EACH	6.000		6.000	
144	SPV.0060	Special 02. Reestablish Section Corner Monuments	EACH	7.000		7.000	
146	SPV.0105	Special 01. Temporary Bypass Pumping STA 541+70.61		1.000		1.000	
90	633.5200	Markers Culvert End	EACH	18.000	8.000	10.000	
92	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	2.000	1.000	1.000	
94	638.2102	Moving Signs Type II	EACH	4.000	2.000	2.000	
96	638.3000	Removing Small Sign Supports	EACH	4.000	2.000	2.000	
98	642.5201	Field Office Type C	EACH	1.000	0.150	0.850	

NOTE: ALL ITEMS ON THIS
SHEET ARE CATEGORY 0010
UNLESS OTHERWISE NOTED.

REMOVING SMALL PIPE CULVERTS

				203.0100						
PROJECT	STATION	LOCAT	ION	(EA)			N	OTES	S	
6320-00-74	501+01.12	RT &	LT	1	24"	CPRC	-	60	FT	LENGTH
	541+70.61	RT &	LT	1	54"	CPRC	-	90	FT	LENGTH
	679+04.91	RT &	LT	1	24"	CPRC	-	40	FT	LENGTH
		PROJECT	TOTAL	3						

REMOVING ASPHALTIC SURFACE MILLING

				204.0120
PROJECT	STATION	- STATION	LOCATION	(SY)
6320-00-74	499+21	- 500+49	BEGINNING OF PROJECT TO STA. 500+49	570
	500+49	- 501+53	CULVERT REPLACEMENT AREA	418
	501+53	- 541+16	STA. 501+53 TO STA. 541+16	13,255
	541+16	- 542+25	CULVERT REPLACEMENT AREA	364
	542+25	- 569+11	STA. 542+25 TO 6TH AVENUE	8,949
	569+11	- 622+05	6TH AVENUE TO 5TH AVENUE	17,644
	622+05	- 674+26	5TH AVENUE TO CTH 'W'	17,861
	674+26	- 678+53	CTH 'W' TO STA. 678+53	1,765
	678+53	- 679+57	CULVERT REPLACEMENT AREA	347
	679+57	- 701+79	STA. 679+57 TO END OF PROJECT	7,405
			CTH 'U'	194
			90TH STREET	184
			6TH AVENUE	73
			5TH AVENUE	166
			CTH 'W'	320
			PROJECT TOTAL	69,515

REMOVING ASPHALTIC SURFACE BUTT JOINTS

			204.0115
PROJECT	STATION	LOCATION	(SY)
6320-00-74	499+21	STH 73	7.0
	499+90	CTH 'U'	11.5
	547+44	90TH STREET	5.5
	569+11	6TH AVENUE	5.0
	622+05	5TH AVENUE	5.0
	674+26	CTH 'W'	6.5
	701+79	STH 73	6.5
		PROJECT TOTAL	47.0

REMOVING CULVERT ENDWALLS

			204.9060.S	
PROJECT	STATION	LOCATION	(EA)	NOTES
6320-00-62	431+51	RT & LT	2	24" CPRC
	454+42	RT & LT	2	24" CPRC
		PROJECT TOTA	L 4	

				Κ	

STATION TO STATION	LOCATION	COMMON EXCAVATION	SALVAGED/UNUSABLE MATERIAL (2)	AVAILABLE MATERIAL (3)	UNEXPANDED FILL	EXPANDED FILL (4)	MASS ORDINATE +/- (5) (6)	WASTE	BORROW	COMMENT:
		Cut (1) (item # 205.0100)				FACTOR 1.25			(item #208.0100)	
500+49 - 501+53	71-073-0110	480	0	480	0	1.23	480	240	,	
CULVERT 71-073-0110 SU		480	0	480	0	0	480		0	
541+16 - 542+25	71-073-0080	965	0	965	0	0	965		0	
CULVERT 71-073-0080 SU	BTOTAL	965	0	965	0	0	965	965	0	
678+53 - 679+57	71-073-0020	309	0	309	0	0	309	309	0	
CULVERT 71-073-0020 SU	BTOTAL	309	0	309	0	0	309	309	0	-
Grand Total for Projec	t 6320-00-74	1754	0	1754	0	0	1754	1514	0	
-	Total Common Ex	c 1754								-

- 1) Salvaged/Unsuable Pavement Material is included in Cut.
- 2) Salvaged/Unusable Pavement Material
- 3) Available Material = Cut Salvaged/Unusuable Pavement Material
- 4) Expanded Fill. Factor = 1.25
- 5) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
- 6) Excavation for Structures is not included on this table.

PROJECT NO: 6320-00-62 & 6320-00-74 HWY: STH 73 COUNTY: ADAMS & WOOD MISCELLANEOUS QUANTITIES SHEET **E**

_	E: ALL ITEMS ON THIS					DDEDADE FOUND	ATTON FO	D ACDUALTIC DAVI	NC				
	ET ARE CATEGORY 0010					PREPARE FOUND	AIIUN FU	R ASPHALTIC PAVI	NG				
UNLE	ESS OTHERWISE NOTED.						211.0100						
				PR	OJECT	LOCATION	(LS)		REMARKS				
					0-00-74	STH 73	1	APPLIES TO ALL		ERLAID SU	JRFACES		
						PROJECT TOTAL	1						
						BASE AG	GREGATE I	DENSE					
3													
'								305.0110	305.012		312.0110	624.0100	
								BASE AGGREGATI DENSE 3/4-INC			SELECT CRUSHED MATERIAL	WATER	
_		PROJECT	STATION -	STATION		LOCATION		(TON)	H DENSE 1 1/4 (TON)	4-INCH	(TON)	(MGAL)	
	-	6320-00-62	SIAIIUN	- STATION		UNDISTRIBUTED		5	(101)			(MGAL)	
	_	6320-00-74	499+21	500+49	REGINN	ING OF PROJECT TO STA.	500+49	12				0.1	
		0020-00-74	500+49			CULVERT REPLACEMENT AREA		24	242		209	2.7	
			501+53		`	STA. 501+53 TO 541+46	•	374				3.7	
			541+16			CULVERT REPLACEMENT AREA	\	25	213		182	2.4	
			542+25			TA. 542+25 TO 6TH AVENU		253				2.5	
		_	569+11			OTH AVENUE TO 5TH AVENUE		500				5.0	
			622+05			5TH AVENUE TO CTH 'W'		490				4.9	
			674+26	- 678+53		CTH 'W' TO STA. 678+53		42				0.4	
			678+53	- 679+57	(CULVERT REPLACEMENT AREA	1	24	203		173	2.3	
	_		679+57	- 701+79	STA	. 679+57 TO END OF PROJ	ECT	210				2.1	
						PROJECT -62 TOTALS		5					
	_					PROJECT -74 TOTALS		1,954	658		564	26.1	
						CONTRACT TOTALS		1,959	658		564	26.1	
						ASPHALT	SUMMARY						
									455.0605 TACK COAT	460.622 HMA PAVEMEN 4 MT 58-28	HMA IT COLD Weather		
			PROJECT	STATION	- STATION	LOCAT	ION		(GAL)	(TON)	(TON)		
			320-00-74		- 500+49	BEGINNING OF PROJE		A. 500+49	40	68			
		30			- 501+53	CULVERT REPLA			29	165			
					- 541+16	STA. 501+53			928	1,591			
					- 542+25	CULVERT REPLA			26	144			
					- 569+11	STA. 542+25 T	0 6TH AVI	ENUE	626	1,074			
					- 622+05	6TH AVENUE TO			1,235	2,117			
				622+05	- 674+26	5TH AVENUE	TO CTH '\	N '	1,250	2,143			
				674+26	- 678+53	CTH 'W' TO S	TA. 678+	53	124	212			
				678+53	- 679+57	CULVERT REPLA	CEMENT A	REA	24	137			
				679+57	- 701+79	STA. 679+57 TO		ROJECT	518	889			
						СТН			14	23			
						90TH S			13	22			
						6TH AV			5	9			
						5TH AV			12	20			
						СТН			22	38			
						UNDISTR					900		
I							P	ROJECT TOTALS	4,866	8,652	900		

NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

			465.0475
PROJECT	STATION - STATION	LOCATION	(LF)
6320-00-74	501+89 -701+79	CTH 'U' TO CTH 'F'	18,390
		PROJECT TOTAL	18,390

CULVERT SUMMARY

		520.9700.S.01	520.9700.8.02	520.9750.S	522.0424	522.0454	522.1024	522.1054	633.5200
	_	CULVERT PIPE	CULVERT PIPE	CLEANING CULVERT	CULVERT PIPE	CULVERT PIPE	APRON ENDWALLS	APRON ENDWALLS	MARKERS
		LINERS	LINERS	PIPES FOR	REINFORCED CONCRETE	REINFORCED CONCRETE	FOR CULVERT PIPE	FOR CULVERT PIPE	CULVERT
		24-INCH	30-INCH	LINER	CLASS IV	CLASS IV	REINFORCED CONCRETE	REINFORCED CONCRETE	ENDS
				VERIFICATION	24-INCH	54-INCH	24-INCH	54-INCH	
PROJECT	CULVERT LOCATION	(LF)	(LF)	(EA)	(LF)	(LF)	(EA)	(EA)	(EA)
6320-00-62	71-073-0150	40		1					2
	71-073-0140	39		1			2		2
	71-073-0130	41		1			2		2
	71-073-0120		56	1					2
6320-00-74	71-073-0110				60		2		2
	71-073-0080					73		2	2
	71-073-0050	41		1					2
	71-073-0040	39		1					2
	71-073-0020				41		2		2
	PROJECT -62 TOTALS	120	56	4			4		8
	PROJECT -74 TOTALS	80		2	101	73	4	2	10
	CONTRACT TOTALS	200	56	6	101	73	8	2	18

CONCRETE BARRIER TEMPORARY PRECAST

		603.8000	603.8125
		DELIVERED	INSTALLED
PROJECT	LOCATION	(LF)	(LF)
6320-00-74	71-073-0080	150	300
	PROJECT TOTAL	150	300

RIPRAP SUMMARY

			606.0200 RIPRAP MEDIUM	606.0300 RIPRAP HEAVY	645.0120 GEOTEXTILE TYPE HR
PROJECT	STATION	LOCATION	(CY)	(CY)	(SY)
6320-00-74	501+11	RIGHT	4.7		9.4
	541+71	RIGHT & LEFT		23.0	34.4
	679+15	RIGHT	4.7		9.4
		UNDISTRIBUTED	2.0	6.0	13.0
		PROJECT TOTAL	11.4	29.0	66.3

PROJECT NO: 6320-00-62 & 6320-00-74 HWY: STH 73 COUNTY: ADAMS & WOOD MISCELLANEOUS QUANTITIES SHEET

2)

MONUMENTS

		621.0100 LANDMARK REFERNCE MONUMENT	SPV.0060.02 REESTABLISH SECTION CORNER
PROJECT	STATION	(EA)	MONUMENTS (EA)
6320-00-74	500+00		1
	519+60		1
	541+89	1	
	542+20	1	
	546+37		1
	599+36		1
	625+86		1
	652+35		1

678+80 701+29 PROJECT TOTAL

LANDSCAPE SUMMARY

		625.0100 TOPSOIL	629.0210 FERTILIZER TYPE B	630.0120 SEEDING MIXTURE NO.20	630.0170 SEEDING MIXTURE NO.70	630.0171 SEEDING MIXTURE NO.70A	630.0500 SEED WATER
PROJECT	CULVERT LOCATION	(SY)	(CWT)	LB	(LB)	(LB)	(MGAL)
6320-00-62	71-073-0150	267	0.17	7.2			1.5
	71-073-0140	330	0.21			1.2	1.9
	71-073-0130	330	0.21			1.2	1.9
	71-073-0120	267	0.17		1.0		1.5
_	UNDISTRIBUTED	301	0.19	1.8	0.2	0.6	1.7
6320-00-74	71-073-0110	75	0.05		0.3		0.4
	71-073-0080	315	0.20		1.1		1.8
	71-073-0050	270	0.17		1.0		1.5
	71-073-0040	270	0.17		1.0		1.5
	71-073-0020	35	0.02		0.1		0.2
<u>-</u>	UNDISTRIBUTED	240	0.15		0.9		1.4
	PROJECT -62 TOTALS	1,495	0.94	9.0	1.2	3.0	8.4
	PROJECT -74 TOTALS	1,205	0.76		4.3		6.8
	CONTRACT TOTALS	2,700	1.70	9.0	5.5	3.0	15.1

EROSION CONTROL ITEMS

		628.1504 SILT FENCE	SILT FENCE	628.1905 MOBILIZATION EROSION CONTROL	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL	628.2008 EROSION MAT URBAN CLASS I TYPE B	628.7504 TEMPORARY DITCH CHECKS	628.7555 CULVERT PIPE CHECKS
PROJECT	CULVERT LOCATION	(LF)	(LF)	(EACH)	(EACH)	(SY)	(LF)	(EA)
6320-00-62	71-073-0150	65	65	2	2	267	35	3
	71-073-0140	102	102	2	2	330		3
	71-073-0130	100	100	2	2	330		3
	71-073-0120			2	2	267	35	3
	UNDISTRIBUTED	67	67			299	18	3
6320-00-74	71-073-0110	105	105	2	2	75	18	3
	71-073-0080	70	70	2	2	300	18	10
	71-073-0050	85	85	2	2		18	3
	71-073-0040	85	85	2	2			3
	71-073-0020	80	80	2	2	35	18	3
	UNDISTRIBUTED	106	106			103	18	6
	PROJECT -62 TOTALS	334	334	8	8	1,493	88	15
	PROJECT -74 TOTALS	531	531	10	10	513	90	28
	CONTRACT TOTALS	865	865	18	18	2,005	178	43

FILE NAME: J:\Jobs2014\20142014-04\Project_Information\Quantities\9269-00-12.ppt

HWY: STH 73

PROJECT NO: 6320-00-62 & 6320-00-74

COUNTY: ADAMS & WOOD

PLOT DATE : 12/12/2019 8:30 AM

MISCELLANEOUS QUANTITIES

PLOT BY :

PLOT NAME : 030201_mq

PLOT SCALE: 1.000000:1.000000

WISDOT / CADDS SHEET 42

SHEET

NOTE: ALL ITEMS ON THIS
SHEET ARE CATEGORY 0010
UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL SUMMARY

643.0300 643.0420 643.0715

		DAYS IN	DRUMS		BARRICADES Type III		WARNING Lights Type C		SI	SIGNS FIXED Message	
PROJECT	LOCATION	PHASE	(NO.)	(DAYS)	(NO.)	(DAYS)	(NO.)	(DAYS)	(NO.)	(DAYS)	(SF)
6320-00-62	ADVANCED WARNING	53							5	265	32
	SIDEROADS	53							4	212	
	71-073-0150	1	8	8					1	1	
	71-073-0140	1	8	8					1	1	
	71-073-0130	1	8	8					1	1	
	71-073-0120	1	8	8					1	1	
6320-00-74	SIDEROADS	53							7	371	
	71-073-0110	1	42	42					6	6	
	71-073-0080	3	23	69	1	3	10	30	16	48	
	71-073-0050	1	8	8					1	1	
	71-073-0040	1	8	8					1	1	
	71-073-0020	1	42	42					6	6	
	WIDTH RESTRICTION	5							12	60	
	ADVANCED WARNING	53							5	265	32
	PROJECT WIDE										
	PROJECT -62 TOTALS		32	32					13	481	32
	PROJECT -74 TOTALS		123	169	1	3	10	30	54	758	32

155

CONTRACT TOTALS

COUNTY: ADAMS & WOOD

PAVEMENT MARKING

201

			646.1020 Marking Line Epoxy 4-inch			646.1040 Marking Line Grooved wet ref epoxy 4-inch	649.0105 TEMPORARY MARKING Line Paint 4-inch			649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
			YELLOW	YELLOW	WHITE	WHITE	YELLOW	YELLOW	WHITE	WHITE
			SOLID	DASHED	DASHED	SOLID	SOLID	DASHED	DASHED	SOLID
PROJECT	STATION TO STATION	LOCATION	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)
6320-00-74	499+21 - 500+49	BEGINNING OF PROJECT TO STA. 500+49	128	32		130	256	20		
	500+49 - 501+53	CULVERT REPLACEMENT AREA	104	26		187	208	17		
	501+53 - 541+16	STA. 501+53 TO 541+46	640	991		7,926	1,280	634		
	541+16 - 542+25	CULVERT REPLACEMENT AREA		27		218		17		24
	542+25 - 569+11	STA. 542+25 TO 6TH AVENUE		672		5,318		430		
	569+11 - 622+05	6TH AVENUE TO 5TH AVENUE		1,324		10,505		847		
	622+05 - 674+26	5TH AVENUE TO CTH 'W'		1,305	41	10,320		835	26	
	674+26 - 678+53	CTH 'W' TO STA. 678+53	427	107	37	798	854	68	24	
	678+53 - 679+57	CULVERT REPLACEMENT AREA	104	26		208	208	17		
	679+57 - 701+79	STA. 679+57 TO END OF PROJECT	990	556		4,443	1,980	356		
		SUBTOTALS	2,393	5,065	78	40,053	4,786	3,241	50	24
		PROJECT TOTALS	_	7,536		40,053		8,077		24

FILE NAME : J:\Jobs2014\20142014-04\Project_Information\Quantities\9269-00-12.ppt

PROJECT NO: 6320-00-62 & 6320-00-74

HWY: STH 73

PLOT DATE : 12/12/2019 8:30 AM

PLOT BY :

MISCELLANEOUS QUANTITIES

10

30

PLOT NAME : 030201_mq

643.0900

67 1,239

643.1000

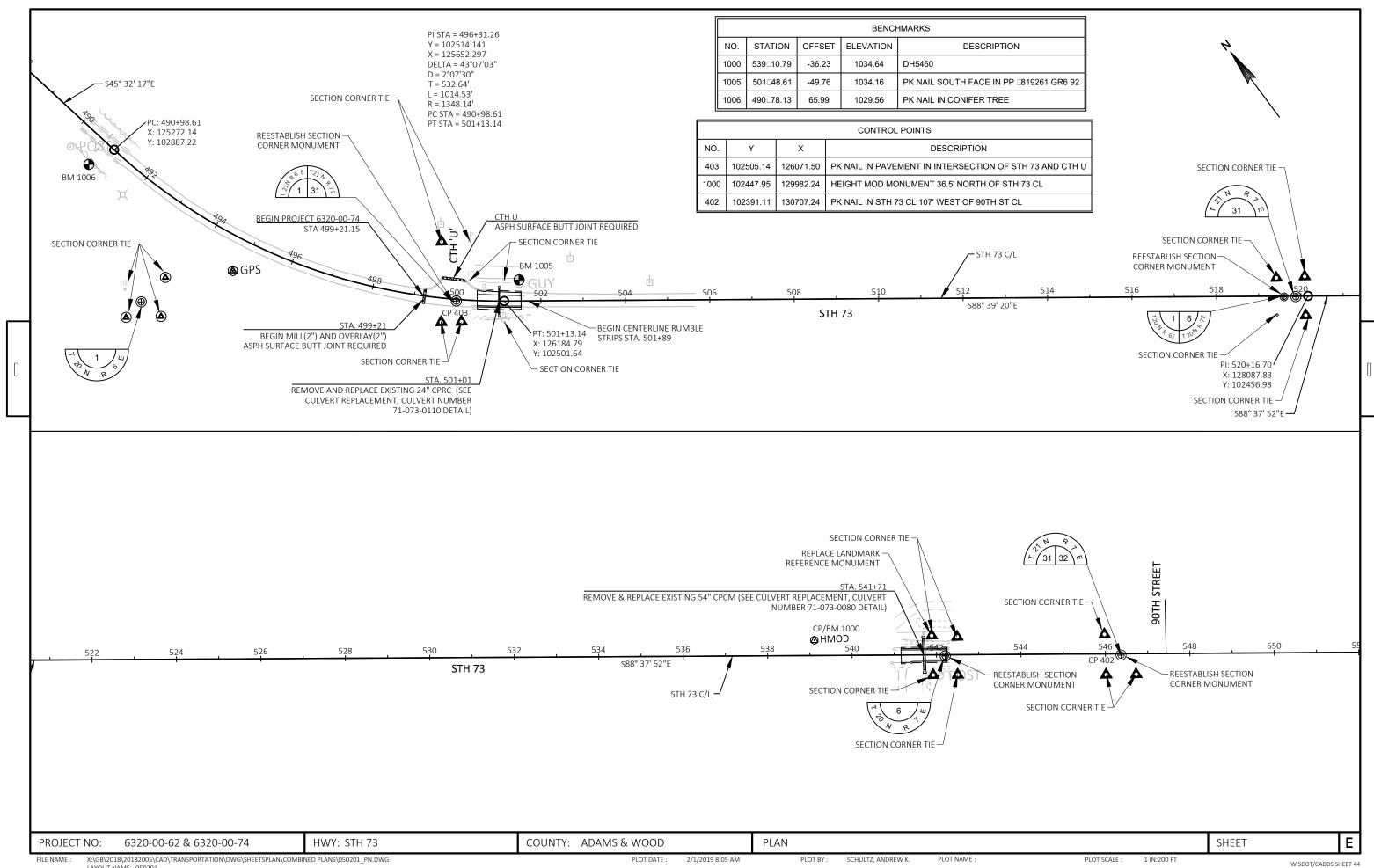
64

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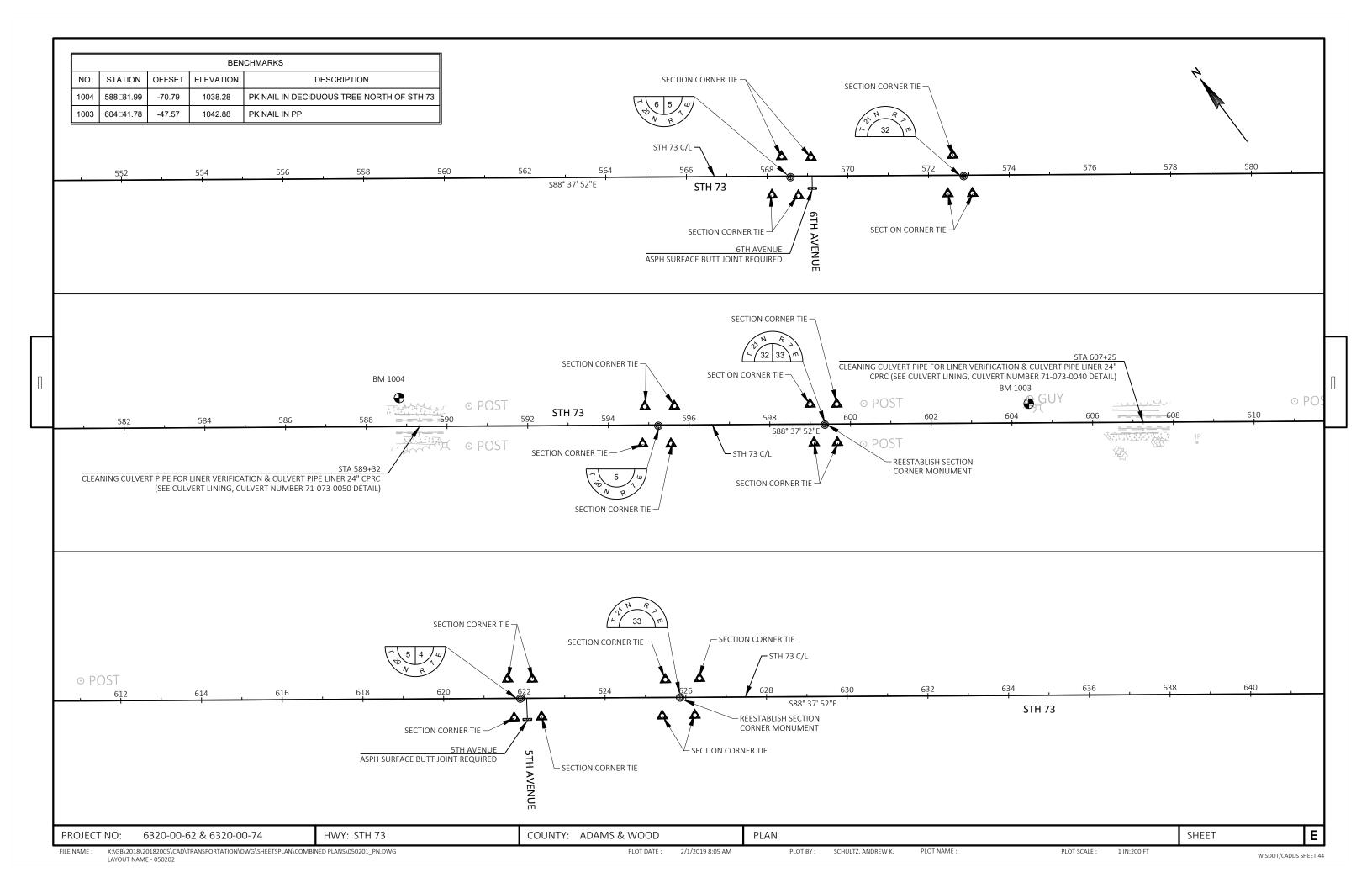
WISDOT / CADDS SHEET 42

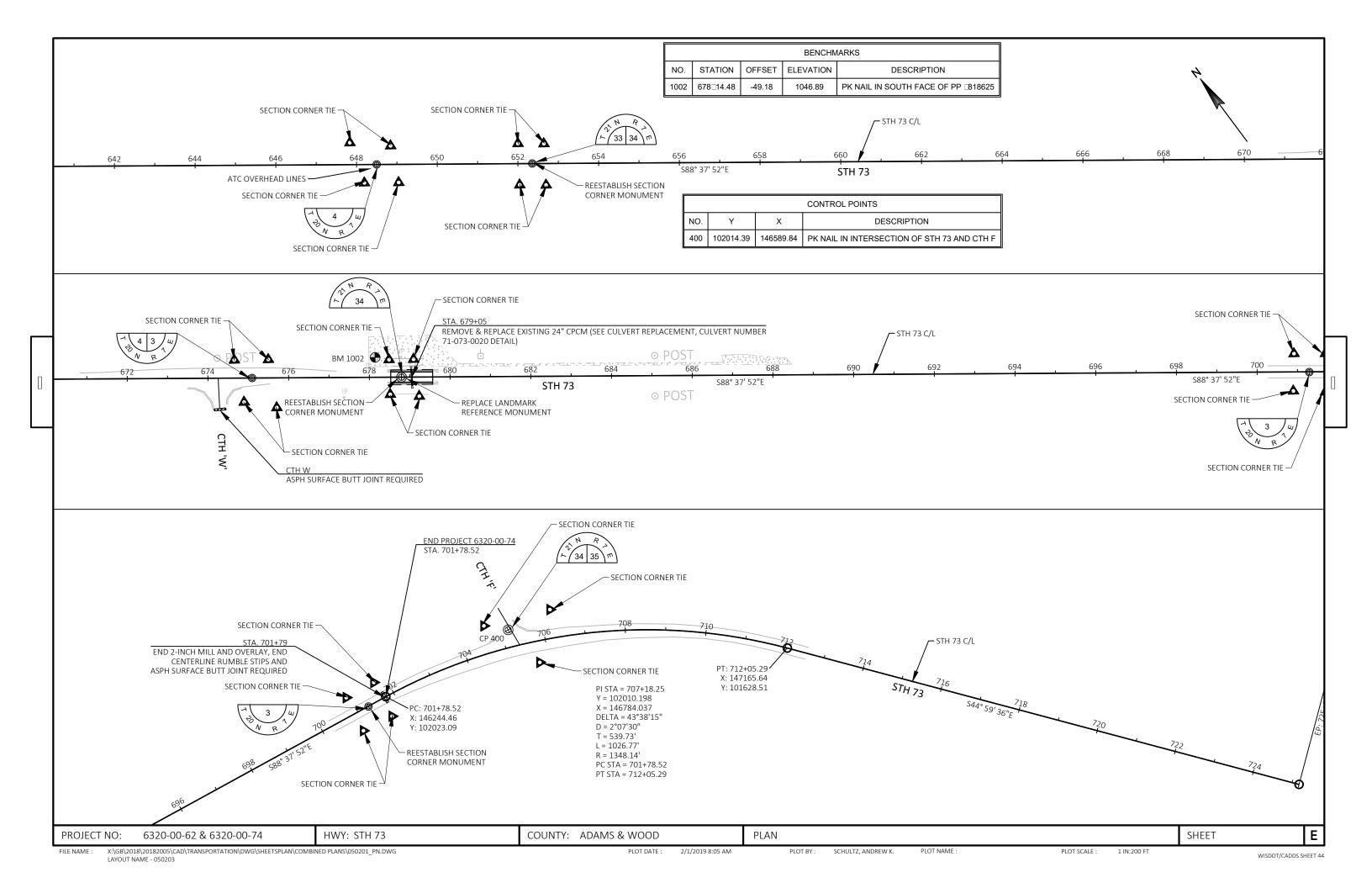
SHEET

	NOTE: ALL ITEMS OF SHEET ARE CATEGORUNLESS OTHERWISE	ORY 0010		SIGNIN	NG											
				634.0 POSTS 4 4X6-I X 16-	WOOD N	38.2102 MOVING SIGNS YPE II	638.3000 REMOVING SMALL SIG SUPPORTS	i iN						-PASSING ZONES		648.0100
		PROJECT	LOCATI			(EA)	(EA)	,		PROJECT		N - STATION		LOCATION		(MI)
		6320-00-62				2	2	_		6320-00-74	4 499+2	1 - 701+79	BEGINNI	NG OF PROJECT TO END		3.84 L 3.84
		6320-00-74	UNDISTRI CONTRACT		!	4	<u>2</u> 4	_						r	ROJECT TOTA	L 3.64
	PROJECT 6320-00-74	STATION - 499+21 - 500+49 - 501+53 - 541+16 - 542+25 - 569+11 - 622+05 -	500+49 501+53 541+16 542+25 569+11 622+05 674+26	BEGINNING OF CULVERT STA. 5 CULVERT STA. 542 6TH AVE	T REPLACEN 501+53 TO T REPLACEN 2+25 TO 6 ENUE TO 57 VENUE TO	N TO STA. 50 MENT AREA 541+46 MENT AREA TH AVENUE TH AVENUE CTH 'W'	CI	50.6000 PIPE ULVERTS (EA) 1 1	650.8000 RESURFACING REFERENCE (LF) 128 3,963 2,686 5,294 5,221	650.9920 SLOPE STAKES (LF) 104 109 		PROJECT 6320-00-74	STATION 500+49 501+53 541+16 542+25 678+53 679+57	SAWING ASPHALT LOCATION STH 73, CULVERT RI PR	EPLACEMENT EPLACEMENT EPLACEMENT EPLACEMENT EPLACEMENT	690.0150 (LF) 39 34 30 30 30 30
ı		674+26 - 678+53 -			V' TO STA. Γ Replacen			1	427 	 104						
		678+53 - 679+57 -		STA. 679+5			СТ		2,222	104						
						PROJECT		3	19,941	317				LANE SHIFT		SPV.0060.01
											-	PROJECT 6320-00-74	STATION 501+01	LOCATION STH 73, CULVERT R		(EA) 2
													541+71	STH 73, CULVERT RI	EPLACEMENT	2
											_		679+57	STH 73, CULVERT RI	EPLACEMENT OJECT TOTAL	6
														• • •	oses, ivine	ŭ
_	PROJECT NO: 6320-	00_62 8 6220 00	74	HWY: STH 73	1.	OUNTY: AD	AMS & WO	OD	MICCELLA	NEOUS QUANTITIES					SHEET	



LAYOUT NAME - 050201





Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E08-03	SILT FENCE
08E09-00 08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05A 09G02-05B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03B 09G02-05C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03A 13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15A 14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B 14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C 14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H 14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15C02-07F	ADVANCED WIDTH RESTRICTION SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C04 05 15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D33-06	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D30 02B	TRAFFIC CONTROL, DROP-OFF SIGNING
16A01-07	

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.

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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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.

- ① 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

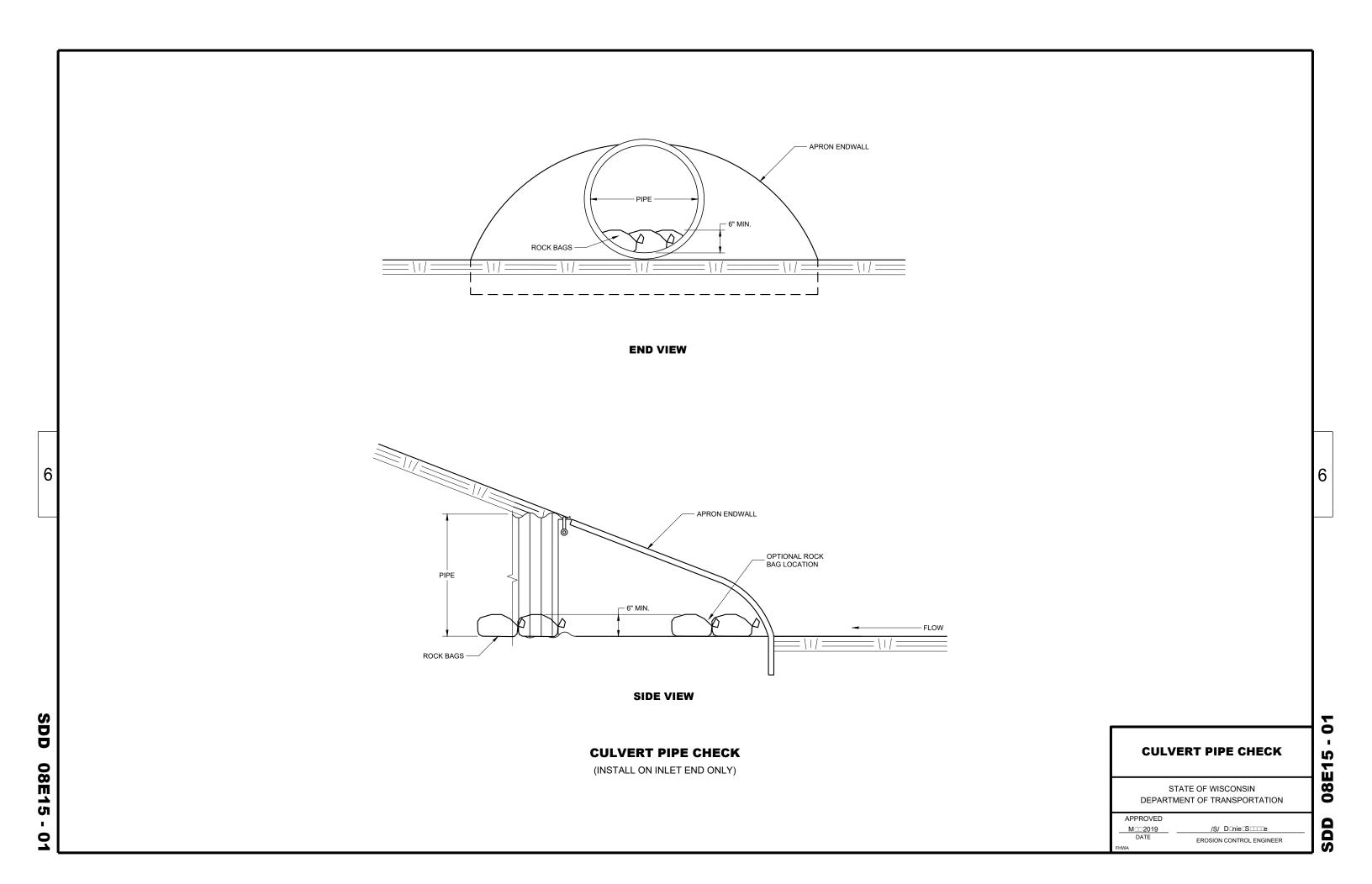
(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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			ı	METAL	APR	ON EN	NDWAL	LS			
PIPE	MIN. 1	THICK.			DIMENS	SIONS (II	nches)			APPROX.	
DIA.	(Incl		A	В	Н	L	Li	L ₂	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1½")	①	0	(±2")		
12	.064	.060	6	6	6	21	12	171/2	24	21/2+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½+o 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	2½+o 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	21/2+o 1	1Pc.
24	.064	. 075	10	13	6	41	18	371/4	48	$2\frac{1}{2}$ to 1	1Pc.
30	.079	. 075	12	16	8	51	18	521/4	60	$2\frac{1}{2}$ to 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	$2\frac{1}{2}$ to 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75%	84	$2\frac{1}{2}$ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	. 105	18	30	12	84	30	851/2	102	21/4+0 1	3 Pc.
60	.109×	.105×	18	33	12	87	_		114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×		18	45	12	87	_	_	138	1/2+0 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_		150	11/2+0 1	3 Pc.

* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

END VIEW

SIDE ELEVATION

METAL ENDWALLS

SHOULDER

SLOPE

	REINFORCED CONCRETE APRON ENDWALLS							
PIPE			DIM	ENSIONS	(Inches)			APPROX.
DIA.	Т	A	В	С	D	E	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	21/2	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	193⁄4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	* ** 33 ¹ / ₄ -35	* 98 ¹ / ₄ - 100	90	51/2	2% to 1
60	6	* ** 30-35	60	39	99	96	5	2 to 1
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

*MINIMUM

PLAN

END VIEW

END SECTION

GROOVED END ON OUTLET END SECTION TONGUE END ON INLET END SECTION

BAR OR STEEL FABRIC

REINFORCEMENT

LONGITUDINAL SECTION

CONCRETE ENDWALLS

OPTIONAL

1 1/2" R

CULVERT

MEASURED LENGTH

OF CULVERT (TO-

NEAREST FOOT)

DESIGN

REINFORCED

SECTION A-A)

END CORNER PLATES MAY

BE FASTENED TO APRON

THE SURFACES TIGHTLY

TOGETHER

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

FDGE (SFE

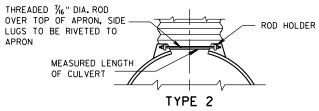
END SECTION CONNECTOR STRAP LUG

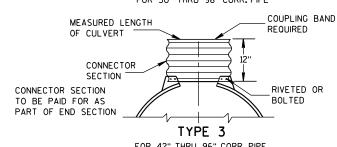
1" WIDE, 12 GA. (0.109"

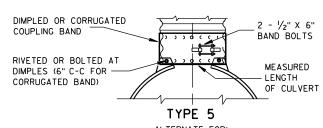
THICK) GALVANIZED STRAP

WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

TYPE 1 FOR 12" THRU 24" CORR. PIPE





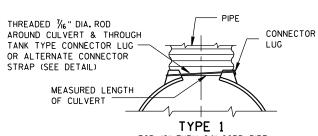


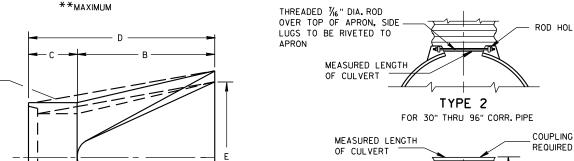
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

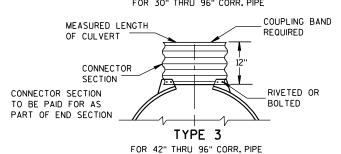
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

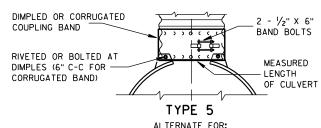
CONNECTION DETAILS 1, 2 OR 5.

ALTERNATE FOR TYPE 1 CONNECTION







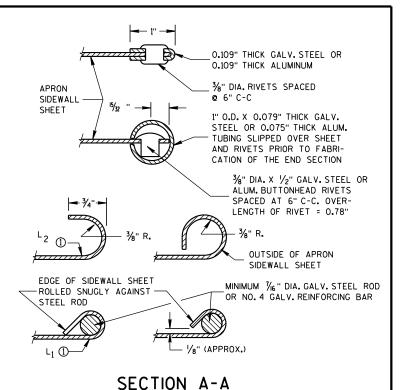


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL

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

CONNECTION DETAILS



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

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

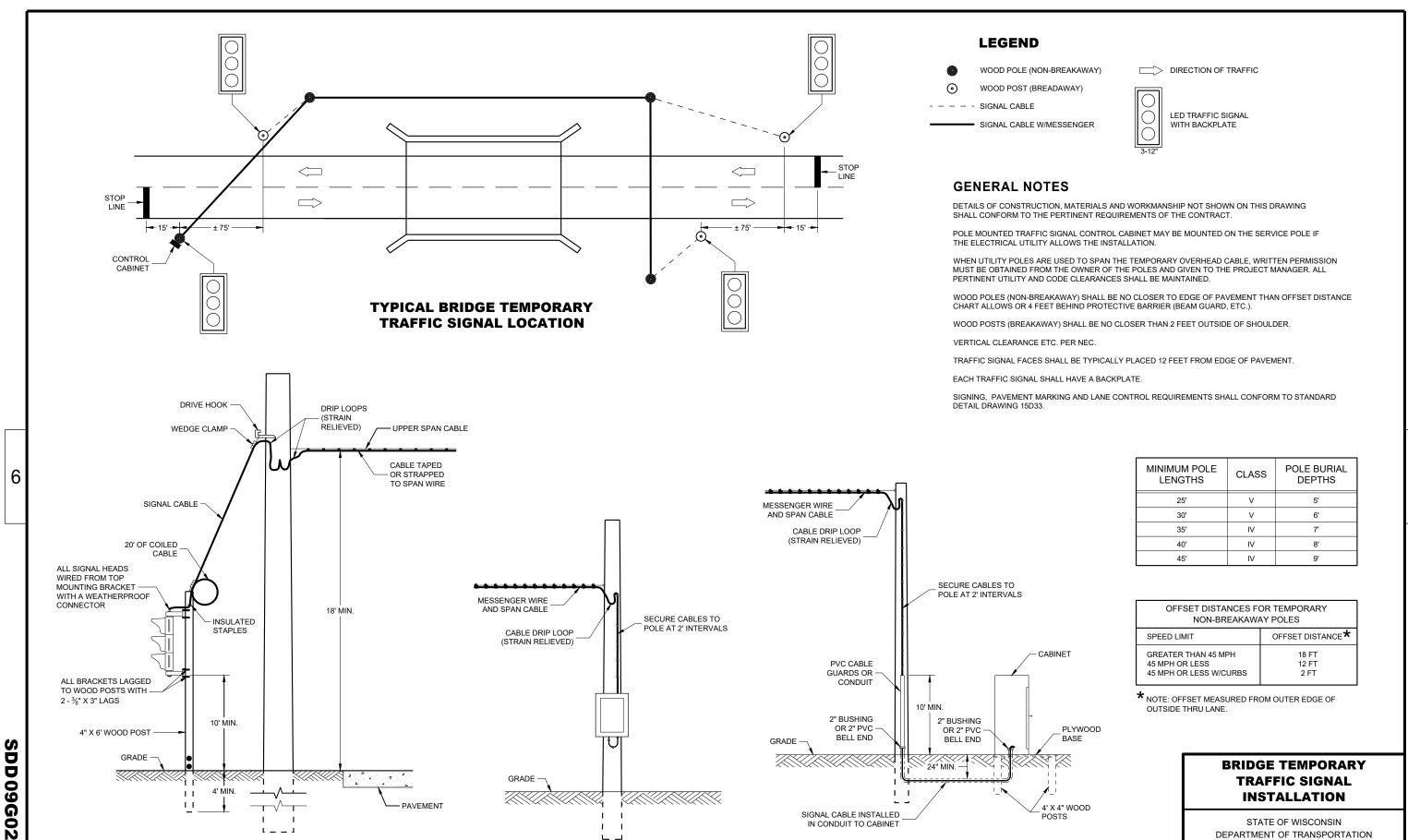
END CORNER

1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

12" C-C MAX. SPACING

6



POLE MOUNT

CABINET INSTALLATION

GRADE

- PAVEMENT

4' MIN.

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TYPICAL DROP TO

TRAFFIC SIGNAL FACE

24" MIN.

GROUND MOUNT

CABINET INSTALLATION

SIGNAL CABLE INSTALLED IN CONDUIT TO CABINET

4' X 4" WOOD

0 0 60

TRAFFIC SIGNAL

INSTALLATION

STATE OF WISCONSIN

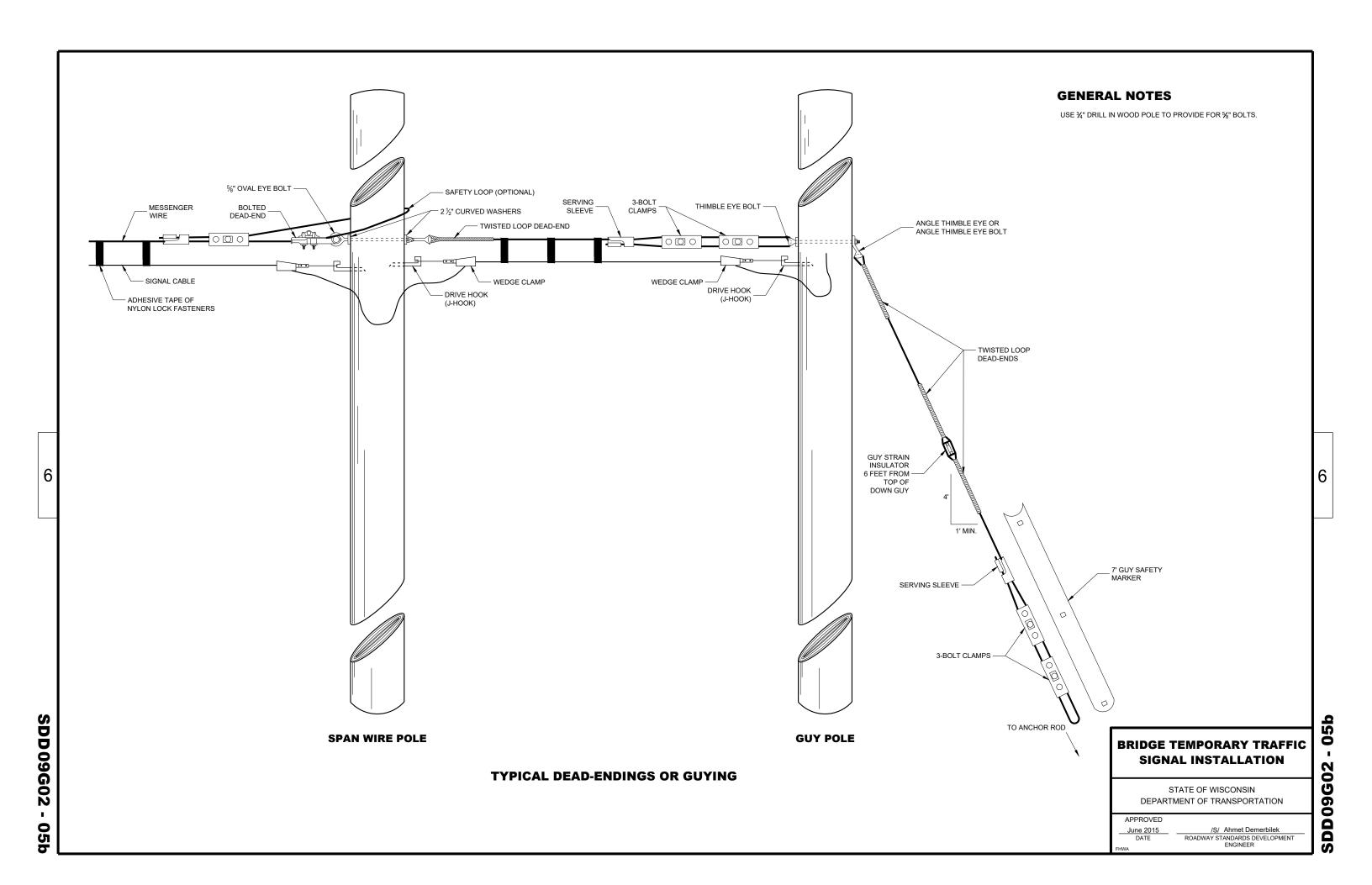
DEPARTMENT OF TRANSPORTATION

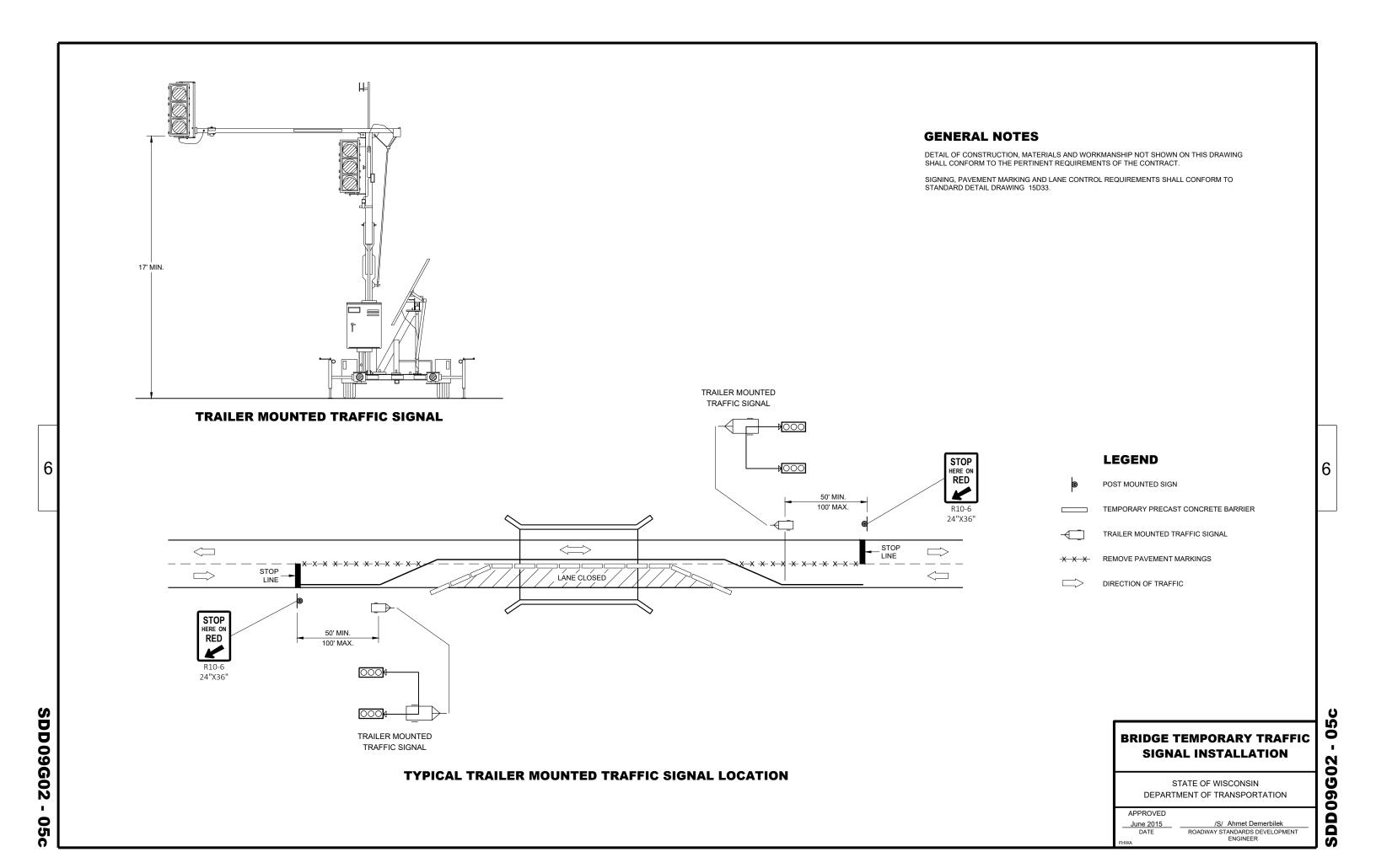
ROADWAY STANDARDS DEVELOPMENT ENGINEER

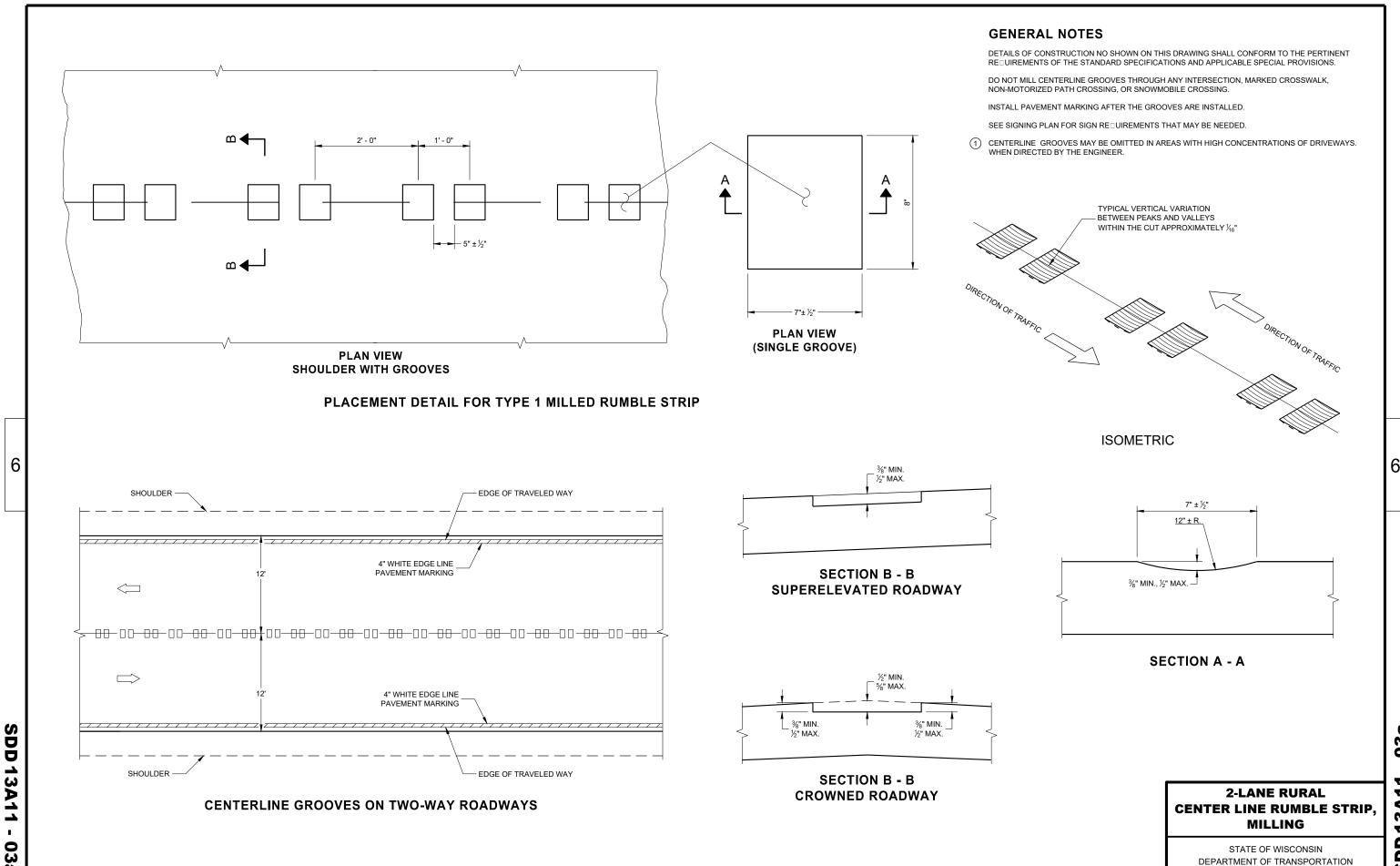
APPROVED

March 2018

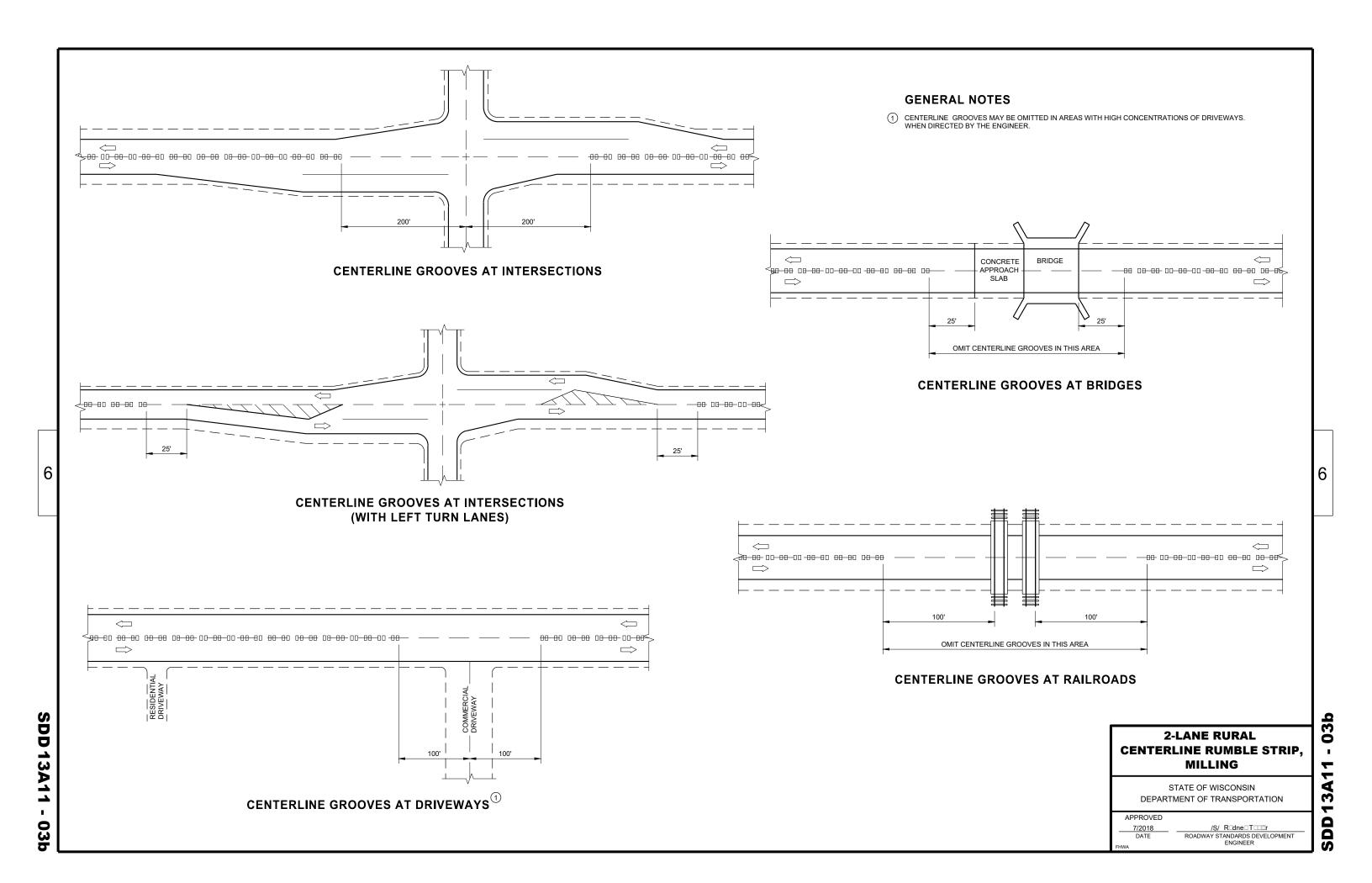
DATE

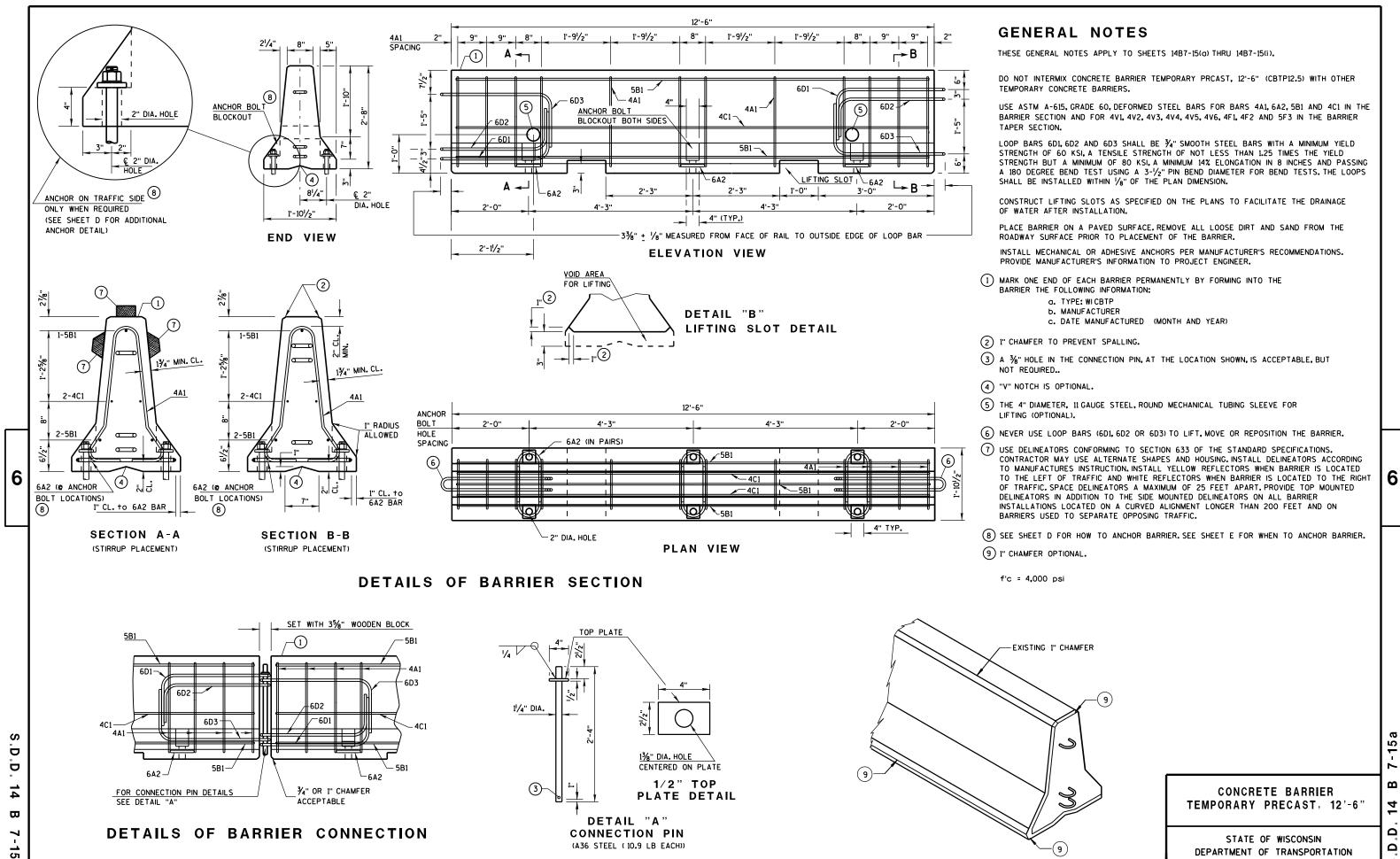






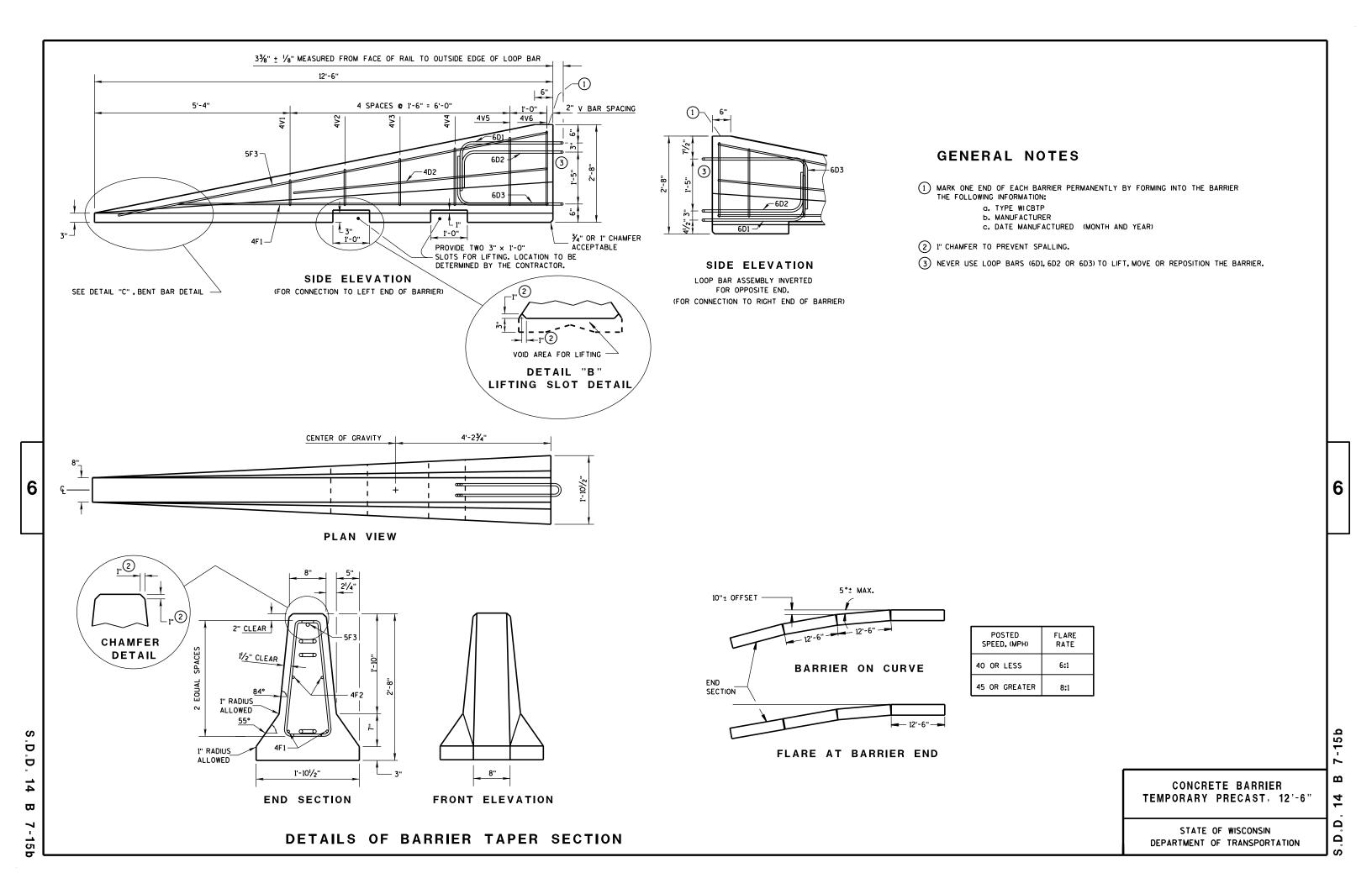
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DEPARTMENT OF TRANSPORTATION

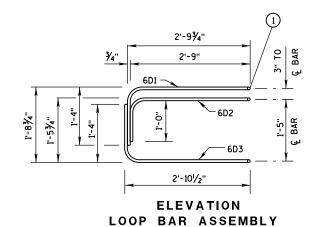


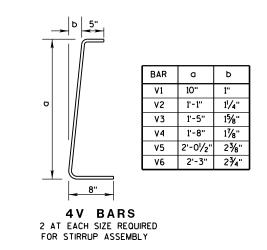
1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

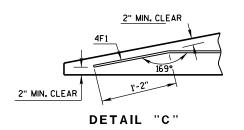
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANNEN TALEN SECTION					
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.		
4V1	4	2	1'-11"		
4V2	4	2	2'-2"		
4٧3	4	2	2'-6"		
4V4	4	2	2'-9"		
4V5	4	2	3'-2"		
4V6	4	2	3'-4"		
4F1	4	2	12'-0"		
4F2	4	2	7'-6"		
5F3	5	1	11'-9"		
L	OOP AS	SSEMBL	Υ		
6D1	6	1	8'-5"		
6D2	6	1	7'-7"		
6D3	6	1	8'-6"		
		•	•		





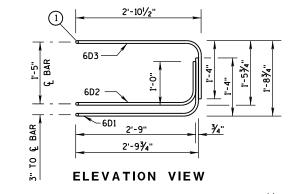


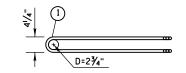
BENT BAR DETAIL

TAPER BARRIER SECTION



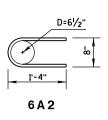
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

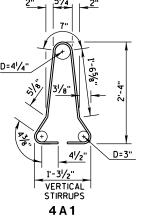




PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)





BARRIER SECTION

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

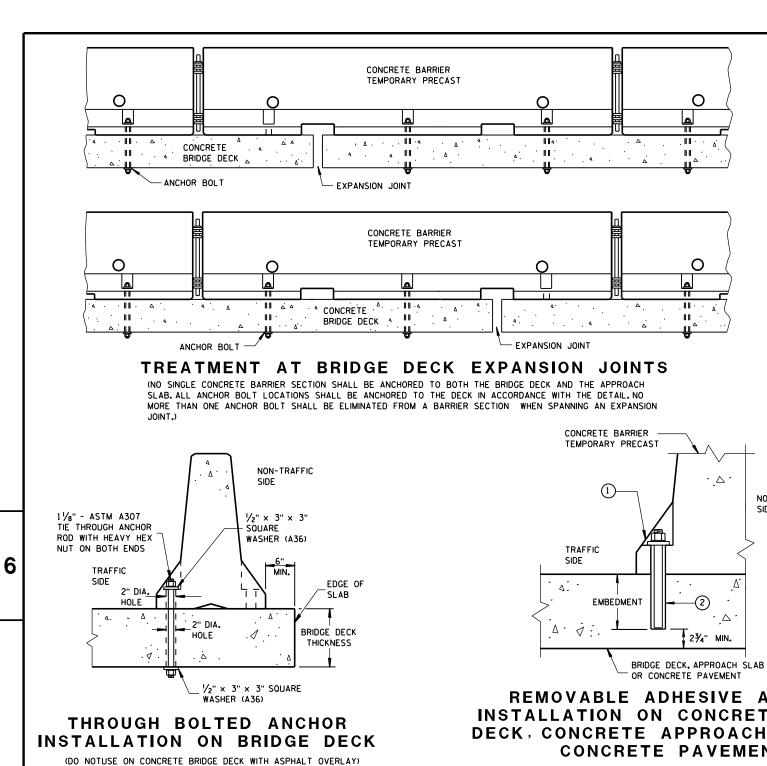
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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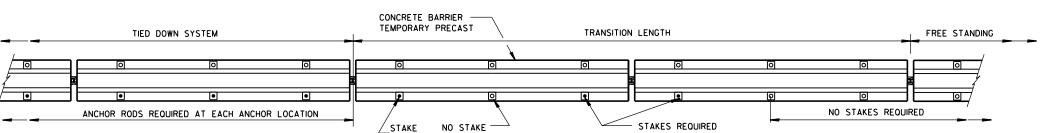
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REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



DIRECTION OF TRAFFIC

PLAN VIEW

REQUIRED

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

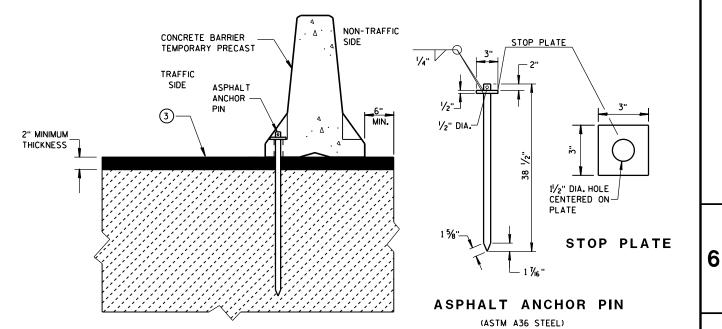
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

GENERAL NOTES

SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

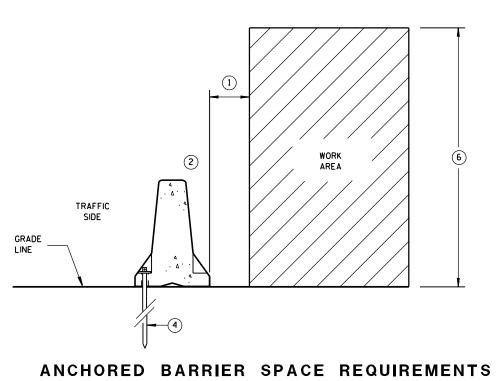
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.
- (3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE**

> **CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15d $\mathbf{\omega}$ Ω



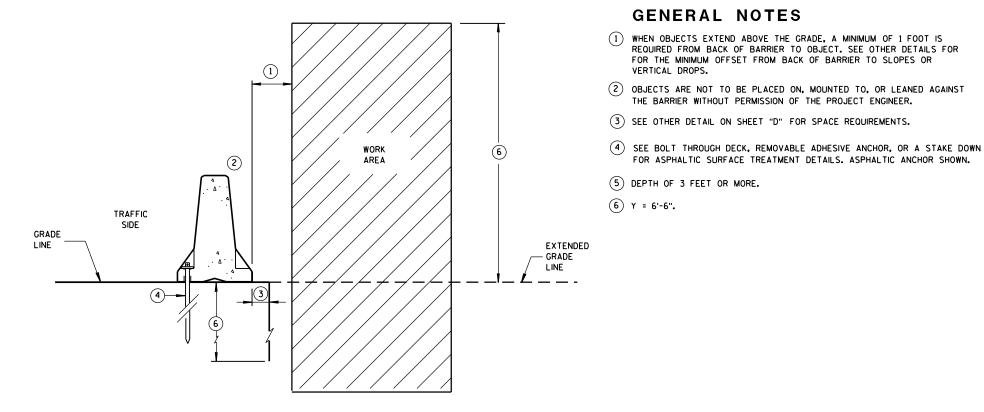
FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

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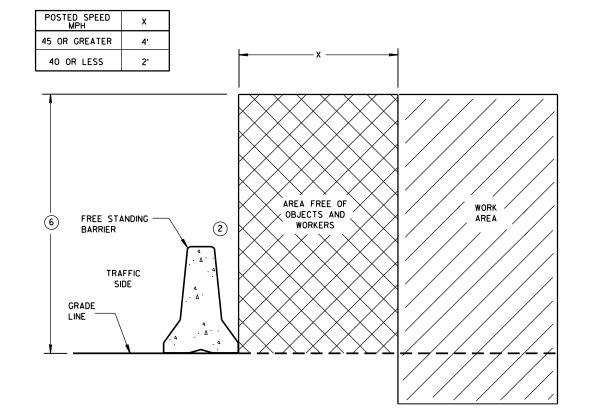
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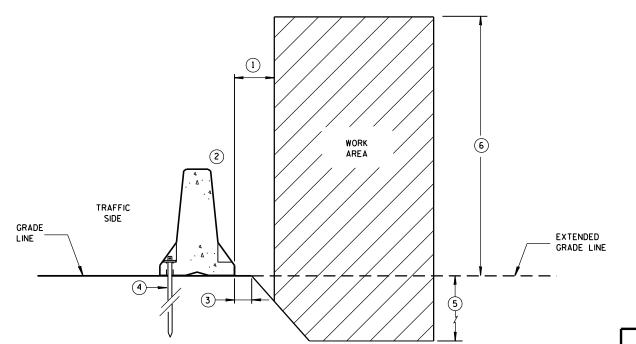
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ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS



FREE STANDING BARRIER SPACE REQUIREMENTS



ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

GENERAL NOTES

FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR

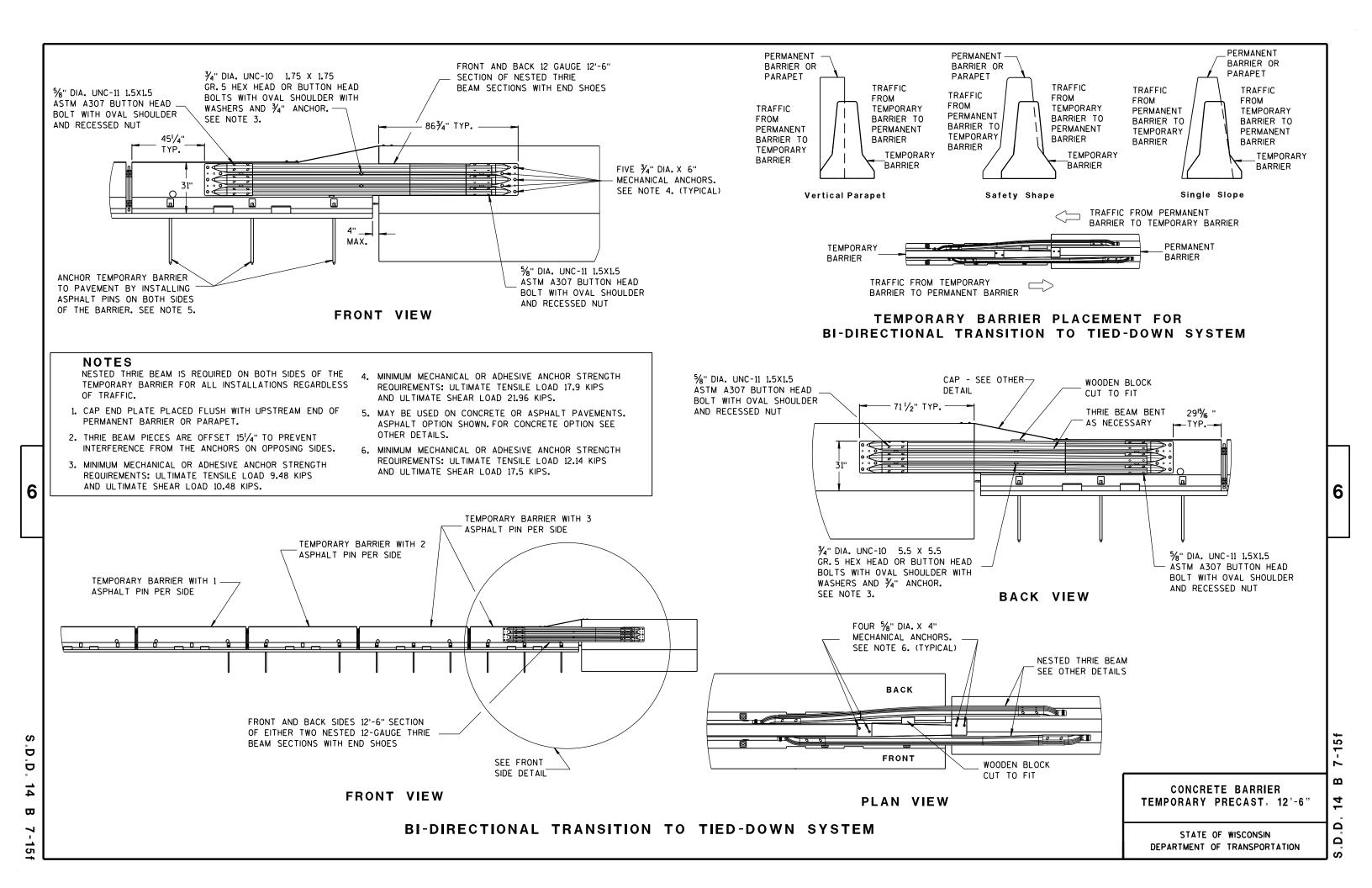
FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.

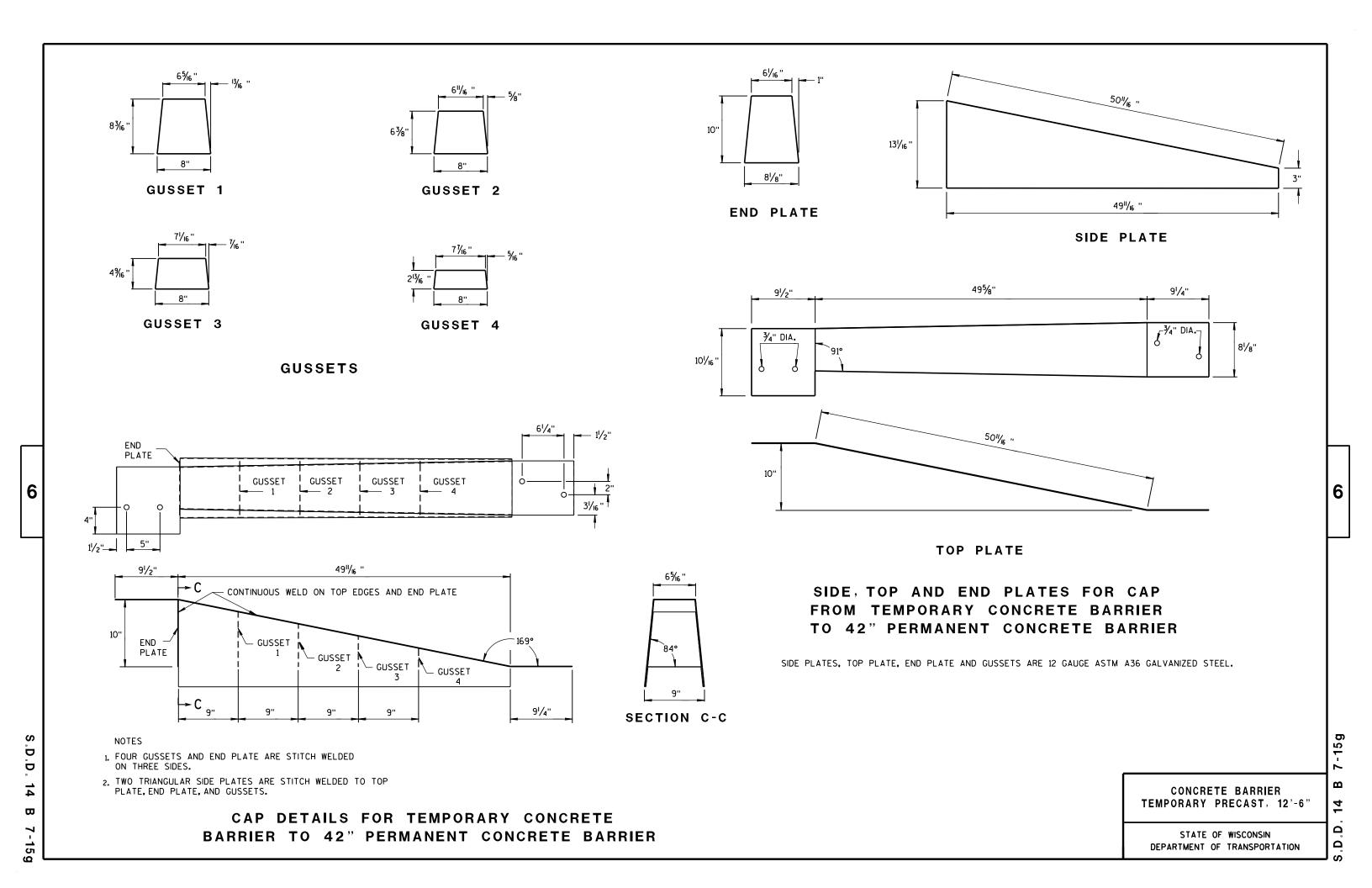
THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.

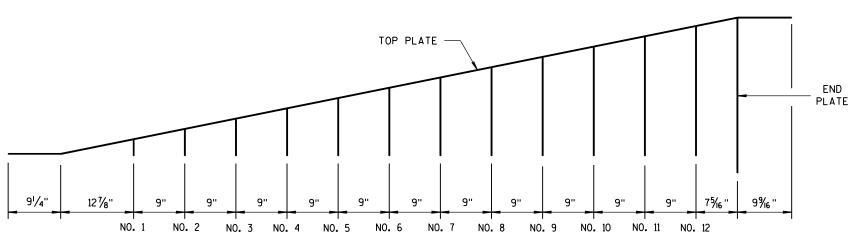
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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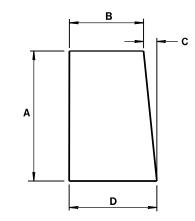




GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE

BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS						
GUSSET No.	A	В	С	D		
1	21/8"	73/4"	1/4"	8		
2	4"/16 "	7% "	1/2"	8		
3	61/2"	73/8"	11/16 "	81/16"		
4	85/6"	73//6"	7∕8"	81/16 "		
5	101/8"	7''	1 ½ ₆ "	81/16"		
6	11 ¹⁵ / ₁₆ ''	6 ¹³ // ₆ "	1 1/4"	81/16"		
7	13¾"	65%"	1 1/6"	81/16"		
8	15% "	6¾6"	1 % "	81/16"		
9	173/8"	6 ¹ /4"	1 ¹³ / ₁₆ "	8½ ₆ "		
10	193/6"	6½ ₆ "	1 15/16 "	81/16 "		
11	21"	57/8"	23/6"	81/16"		
12	22 ¹³ / ₁₆ "	5 ¹¹ / ₁₆ "	2% "	8½ ₆ "		

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

DEPARTMENT OF TRANSPORTATION

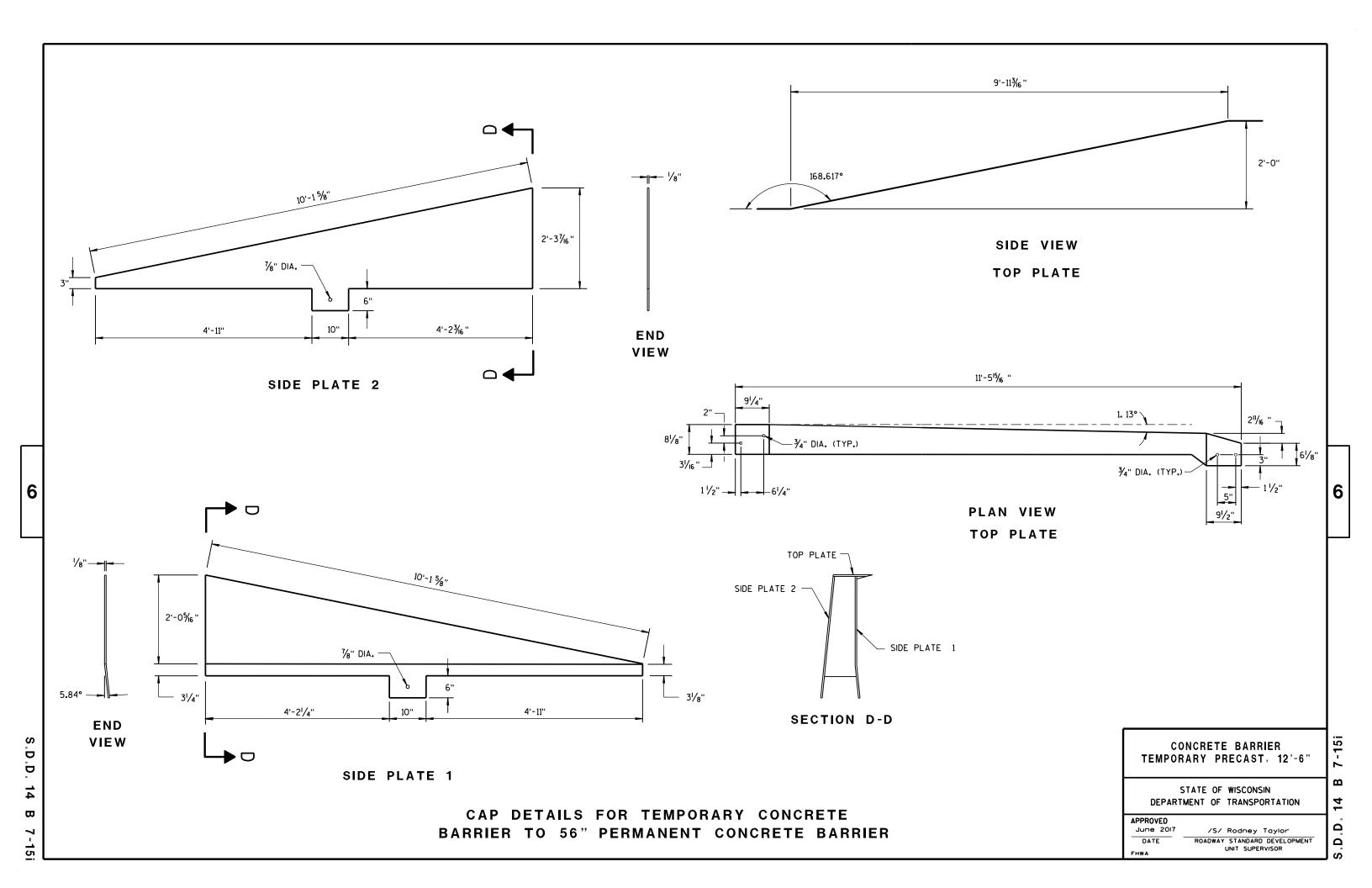
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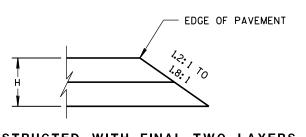
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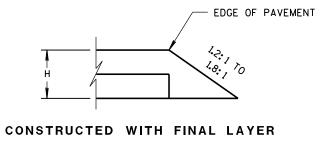
STATE OF WISCONSIN

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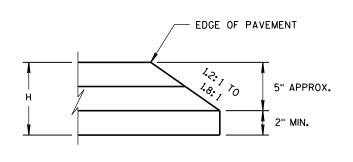


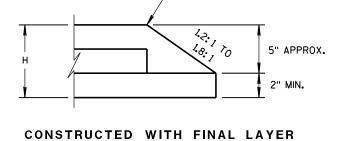


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





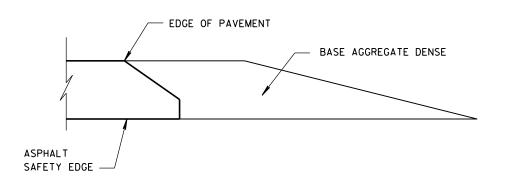
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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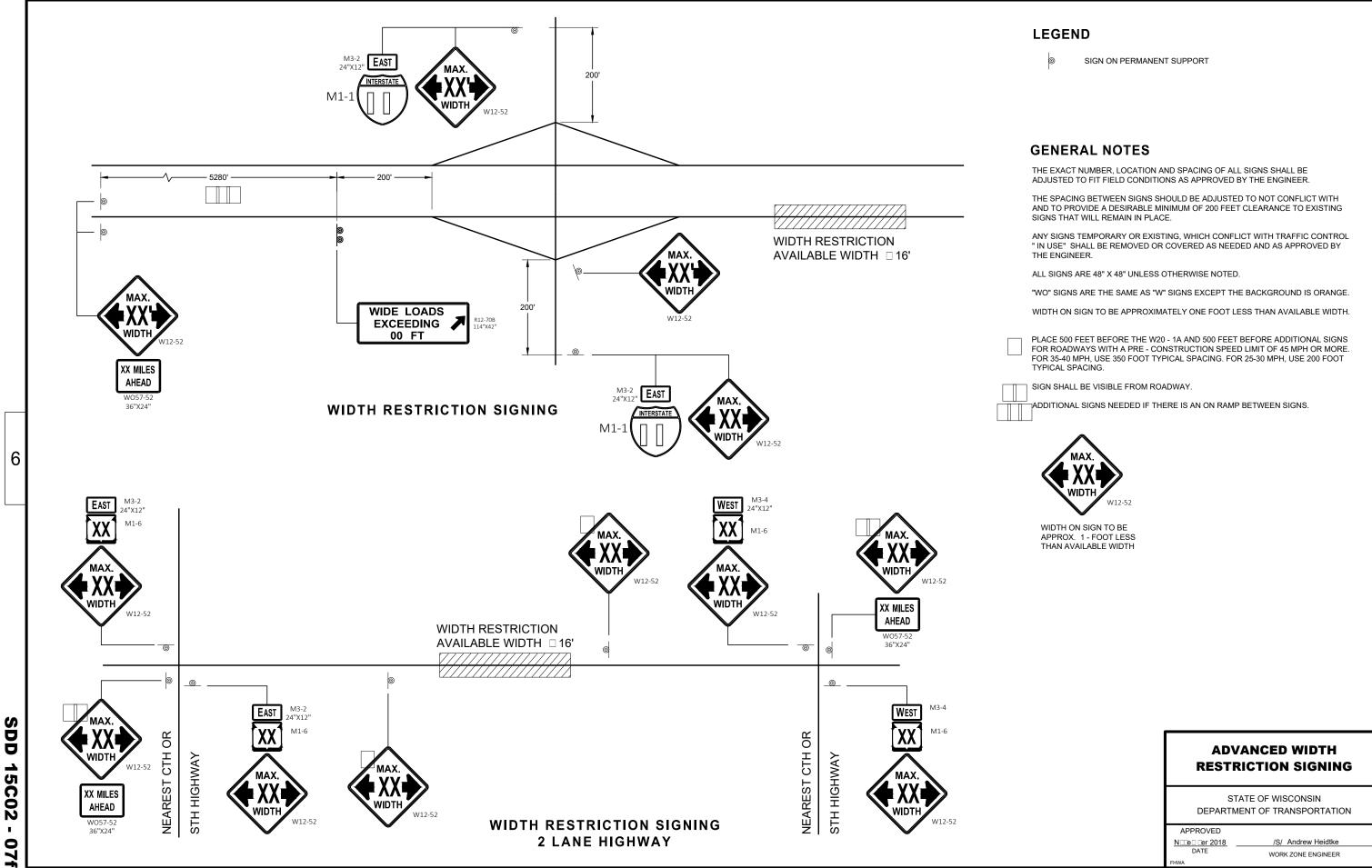
APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

6



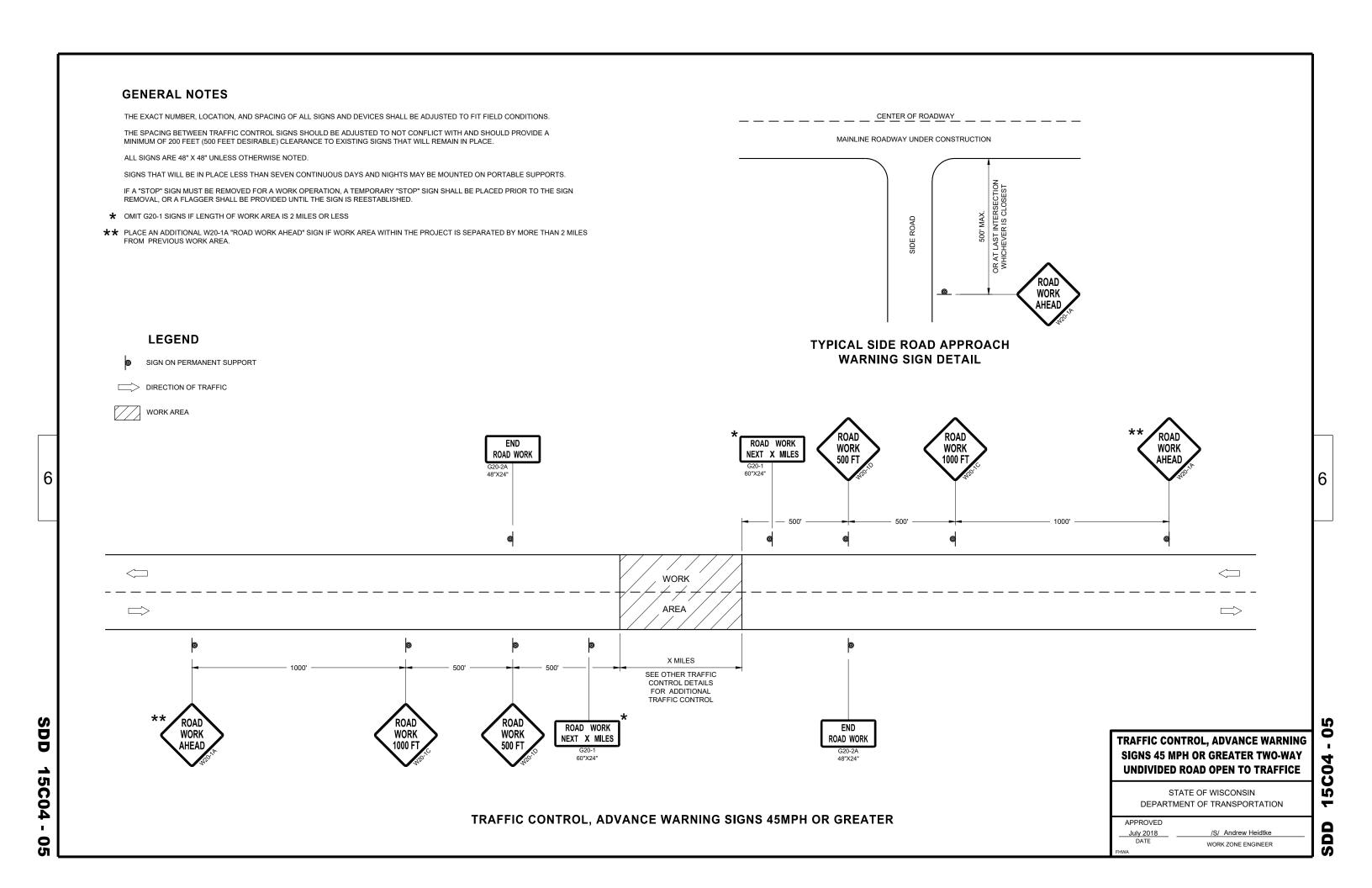


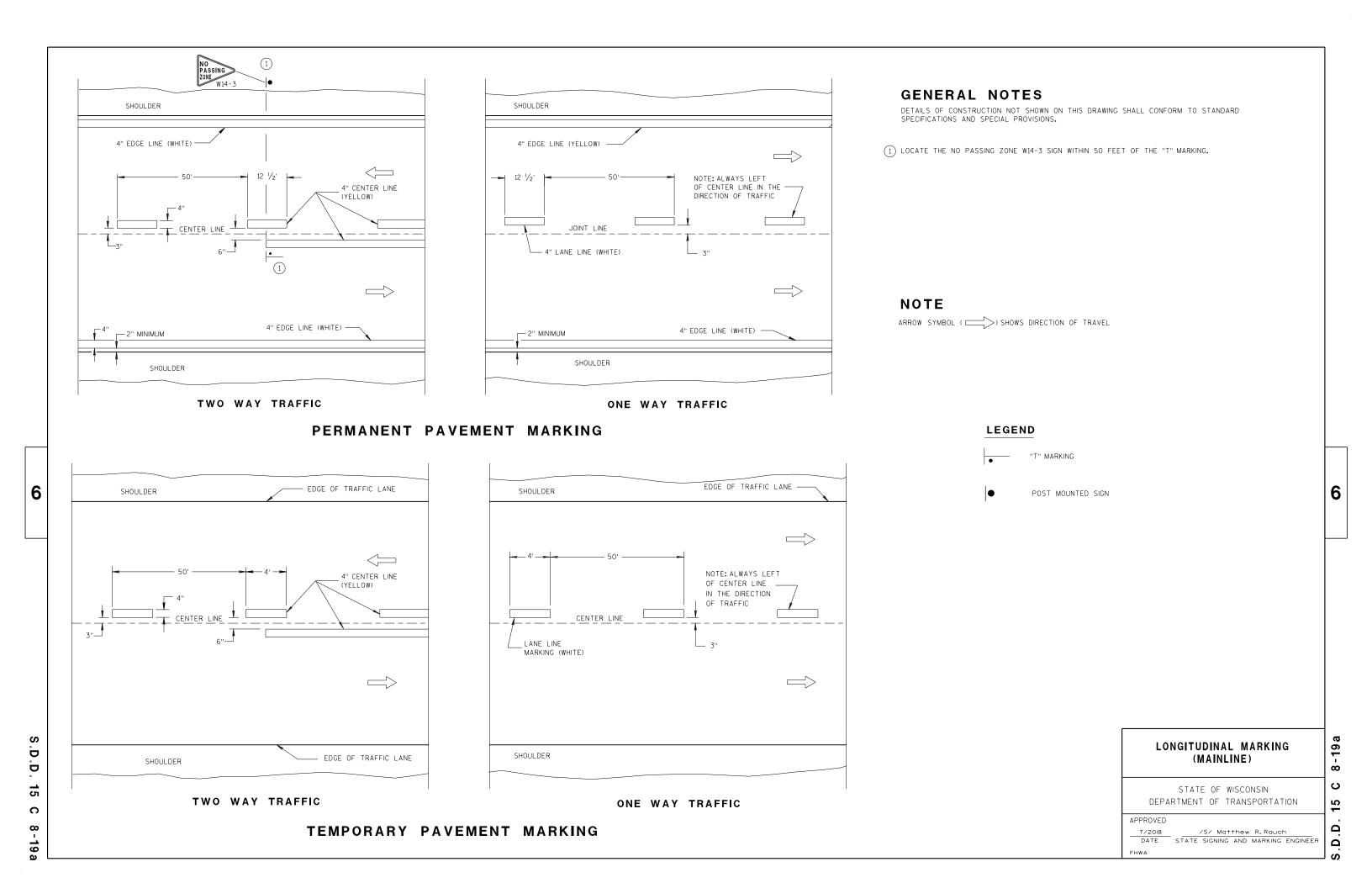


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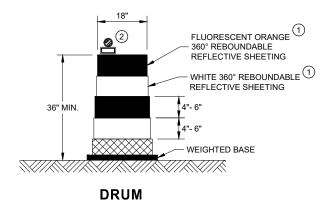
N = e = er 2018 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

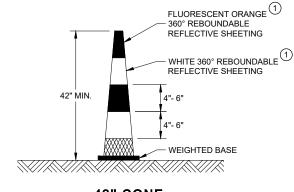


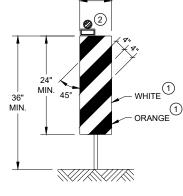


GENERAL NOTES

- (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.



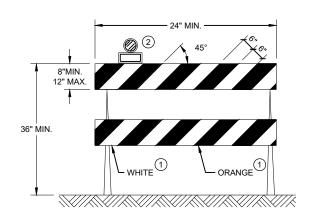




42" CONE DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

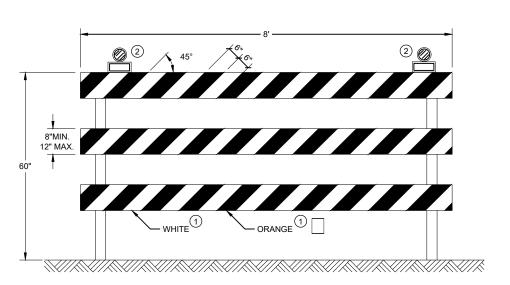
VERTICAL PANEL

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 07

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APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

LEGEND SIGN ON PORTABLE OR PERMANENT SUPPORT TEMPORARY PORTABLE RUMBLE STRIP ARRAY DIRECTION OF TRAFFIC WORK AREA

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REDUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR THEIR

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE E UIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REDUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS RE \square UIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS RE \square UIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S 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.

ROAD

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STRIPS



RUMBLE

STRIPS

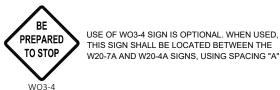
WORK

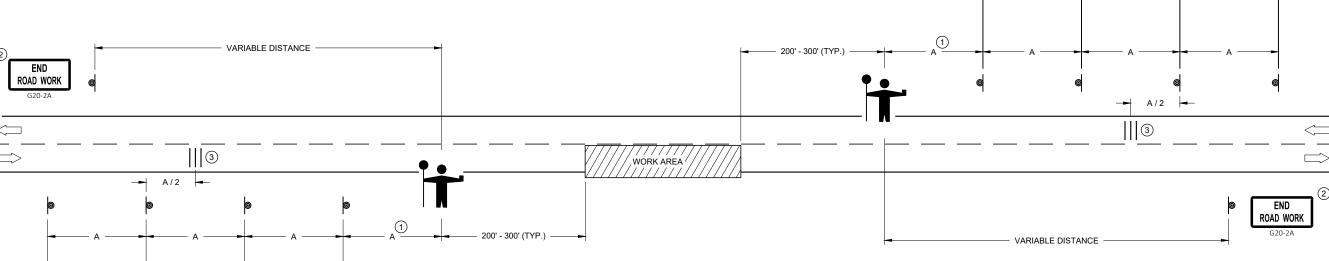
FLAGGER, EUIPPED WITH STOP/SLOW

PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'





TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

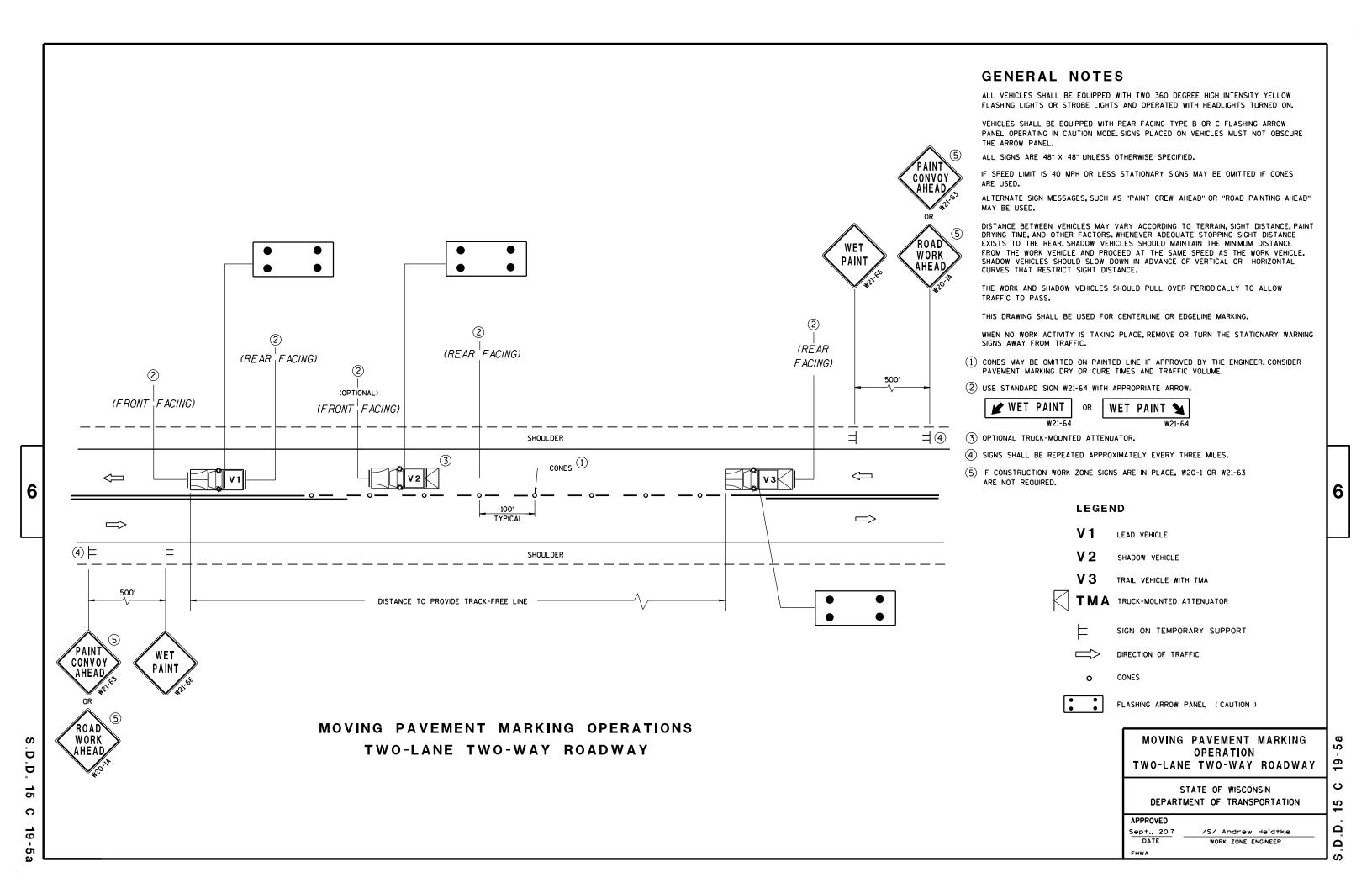
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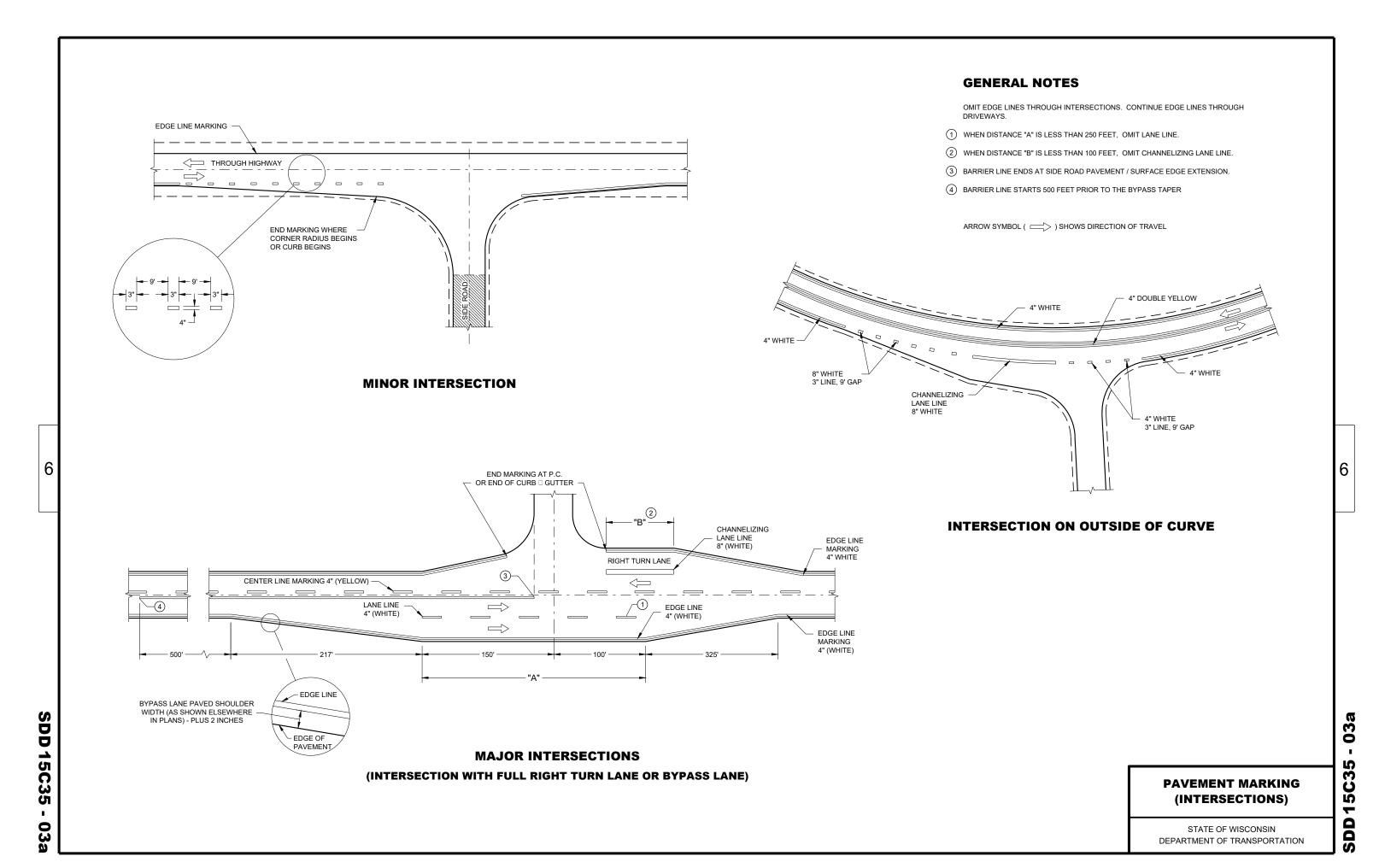
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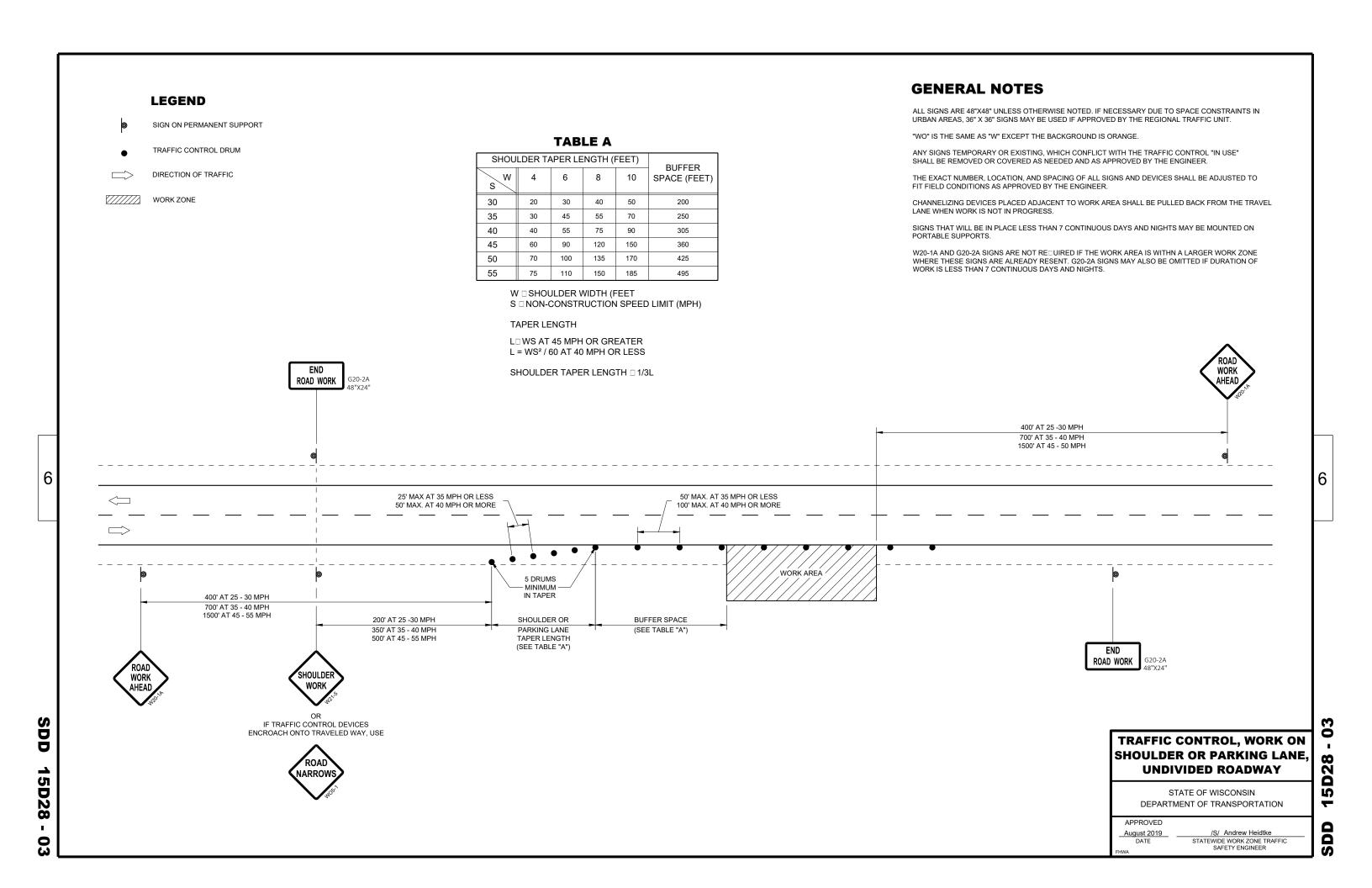
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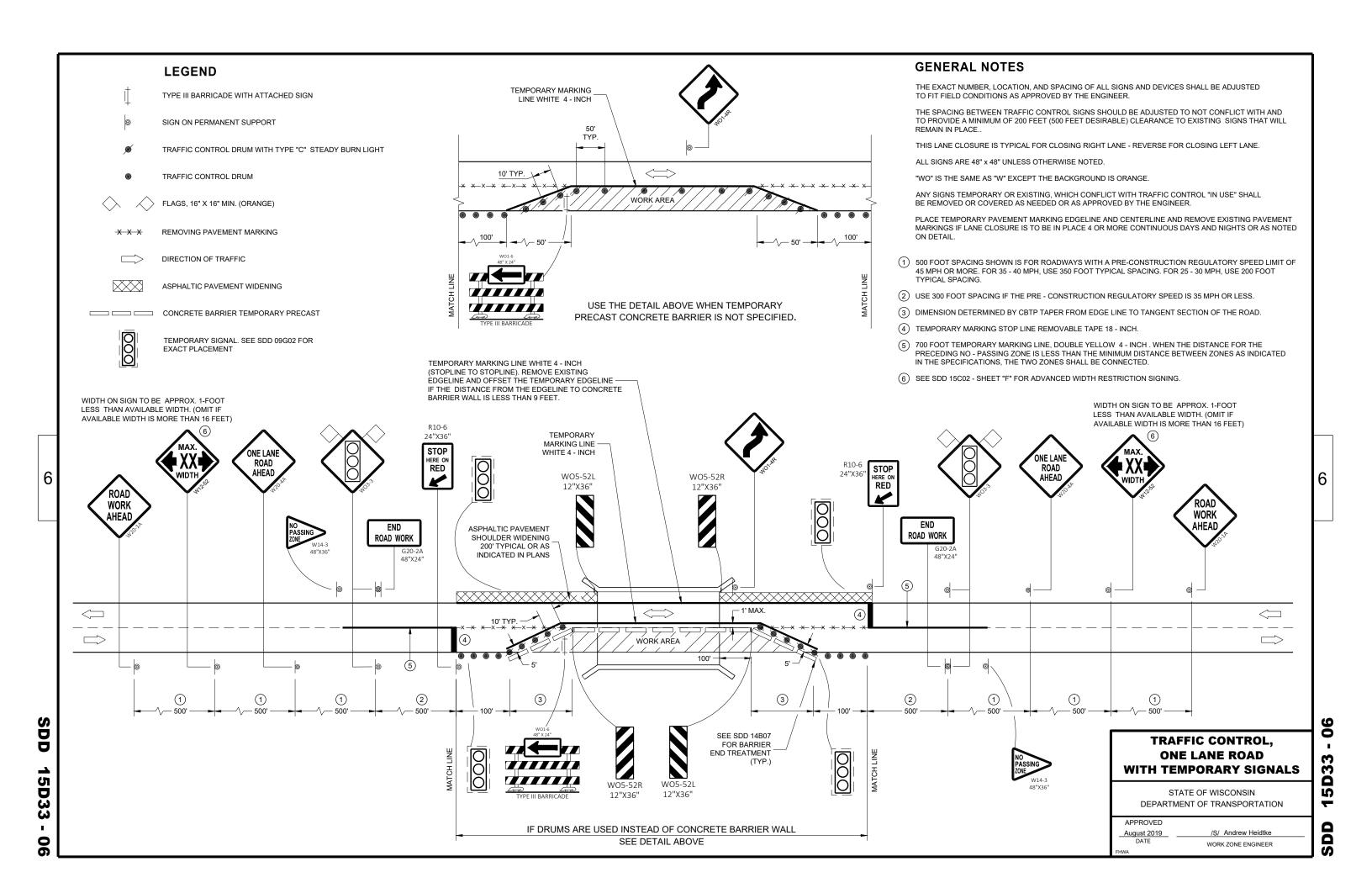
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
M□□2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER











TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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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.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 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 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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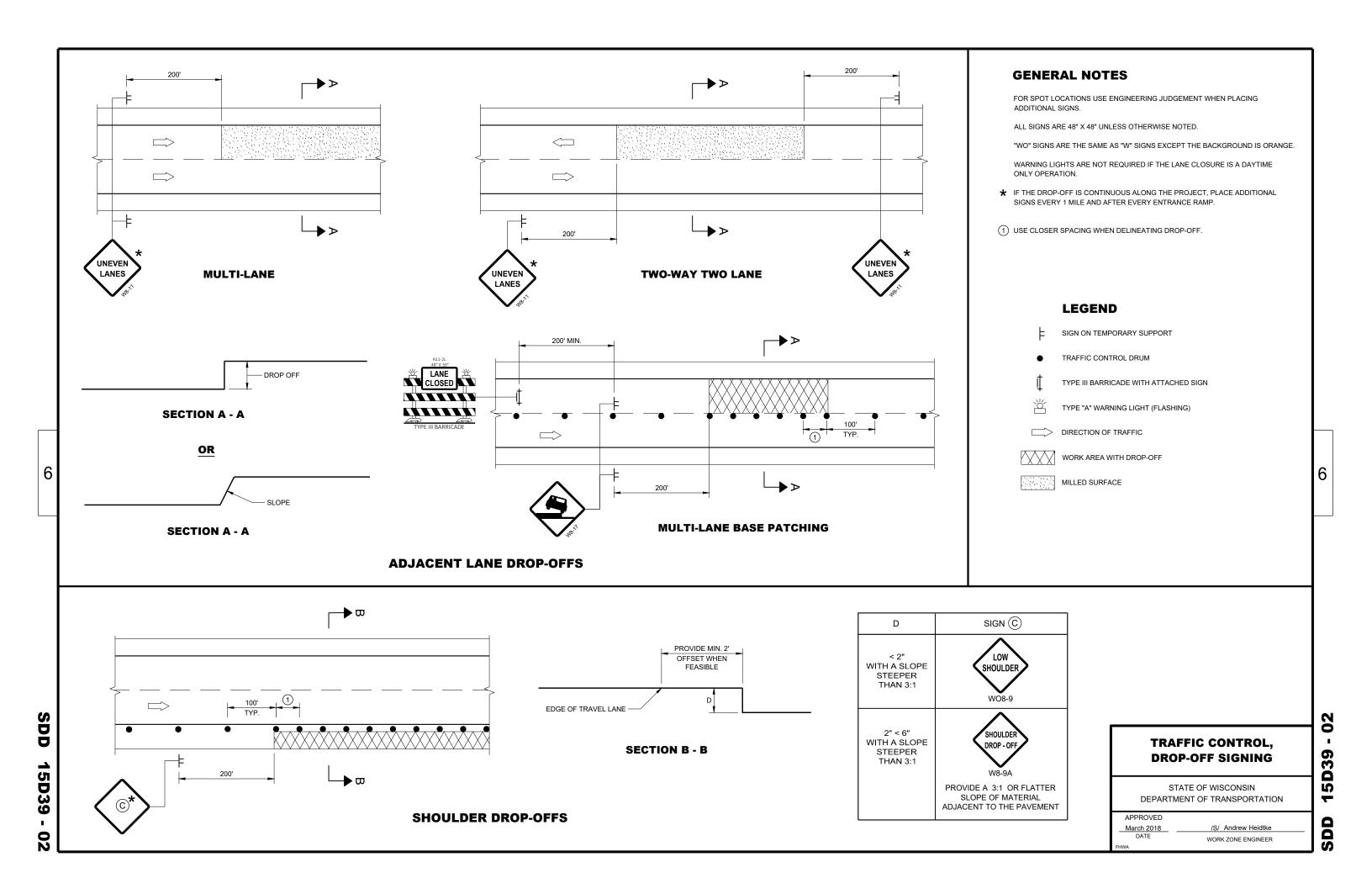
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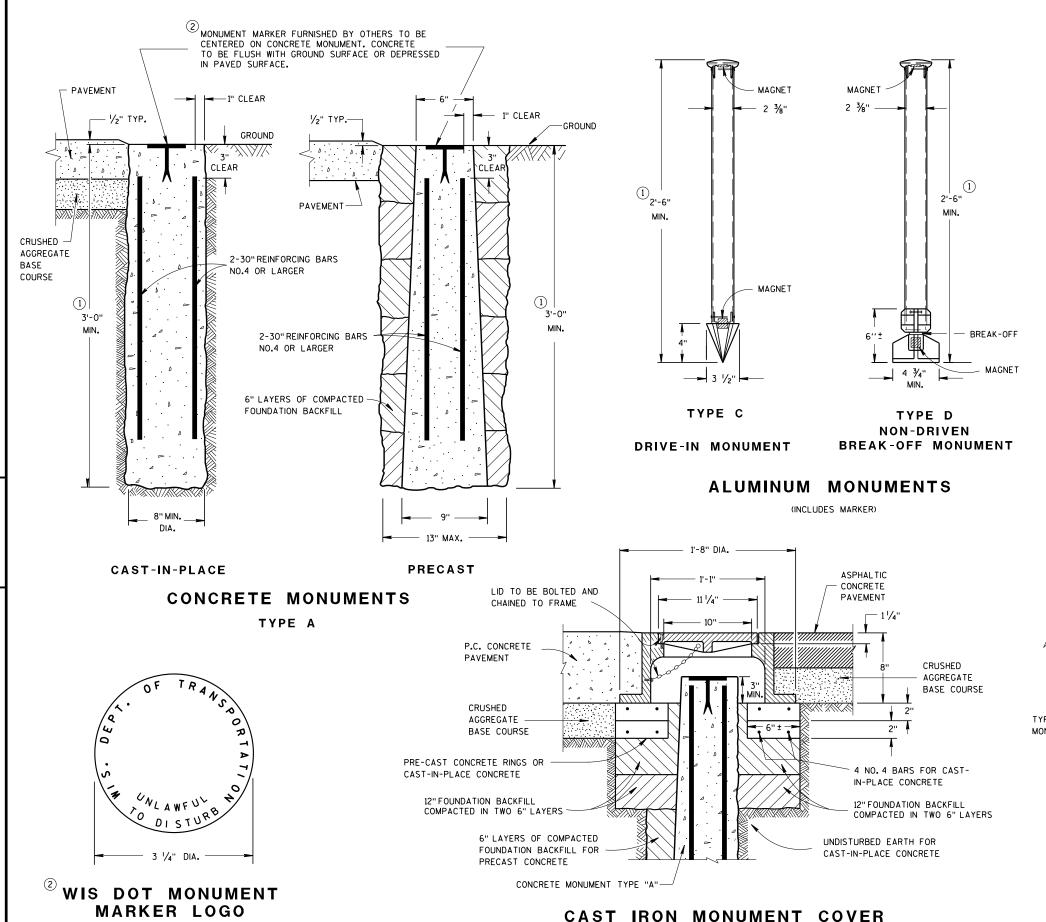
2 b

18

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38-2b





(APPROXIMATE WEIGHT 95 LBS)

Ö D

FOR TYPES "A", "C", & "D"

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.

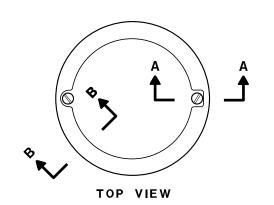
MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

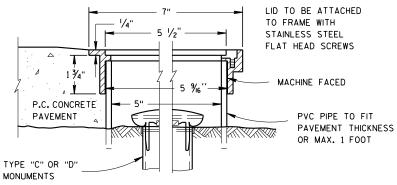
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

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.





ALUMINUM MONUMENT COVER

SECTION A-A

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

SECTION B-B

LANDMARK REFERENCE **MONUMENTS AND COVERS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

March 2018 /S/ Raymond A. Kumapayi DATE CHIEF SURVEYING AND MAPPING ENGINEER FHWA

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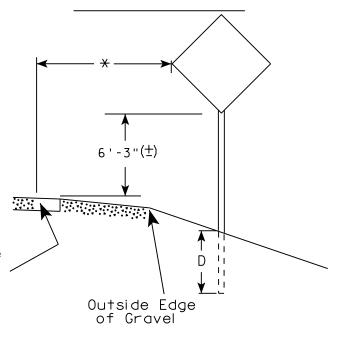
urban area

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

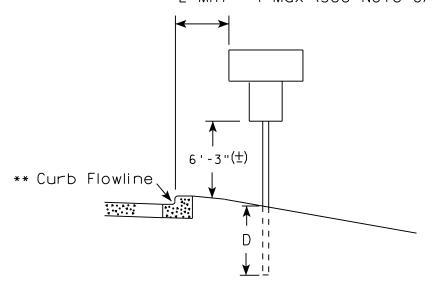
** Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

PLOT DATE: 21-AUG-2017 16:04

** 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.

POST EMBEDMENT DEPTH

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

* 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.

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. J-Assemblies are considered to be one sign for mounting height.
- 5. Minimum mounting height for signs mounted on traffic signal poles is $5'-3''(\pm)$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. 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), 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" (±).

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

SHEET NO:

PROJECT NO:

HWY:

COUNTY:

NTY:

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

PLOT SCALE : 100.601251:1.000000



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 DIAMOND (TWO POSTS REQUIRED)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)		
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:



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY * \$\$ nintuser \$\$

SHEET NO:

| | |



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

CHANNEL

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:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

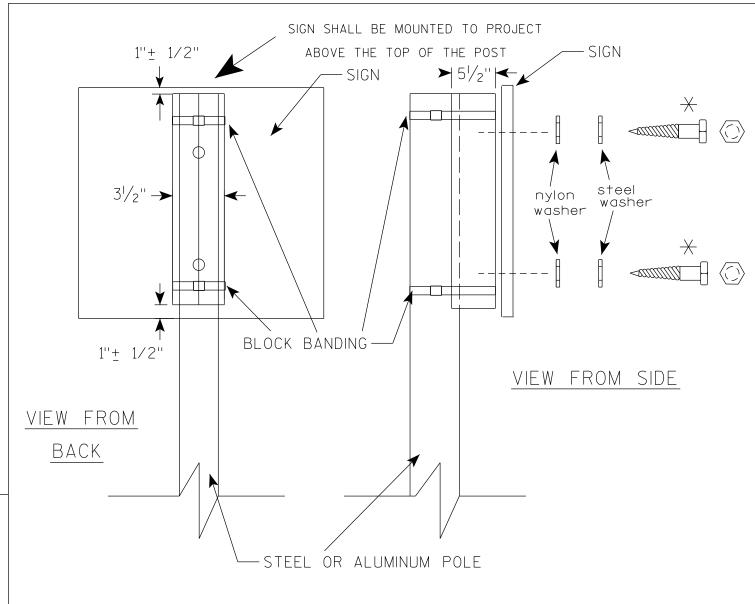
State Traffic Engineer

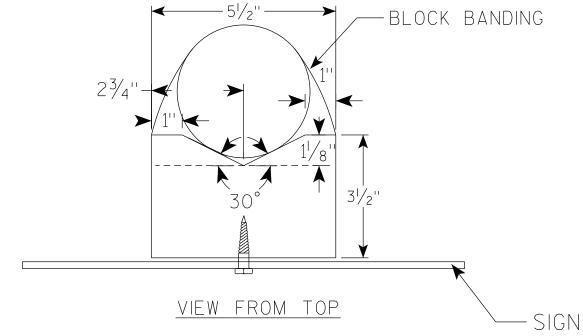
COUNTY:

PLOT NAME :

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

PROJECT NO:





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

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>6/10/19</u>

PLATE NO. <u>A5-10.2</u>

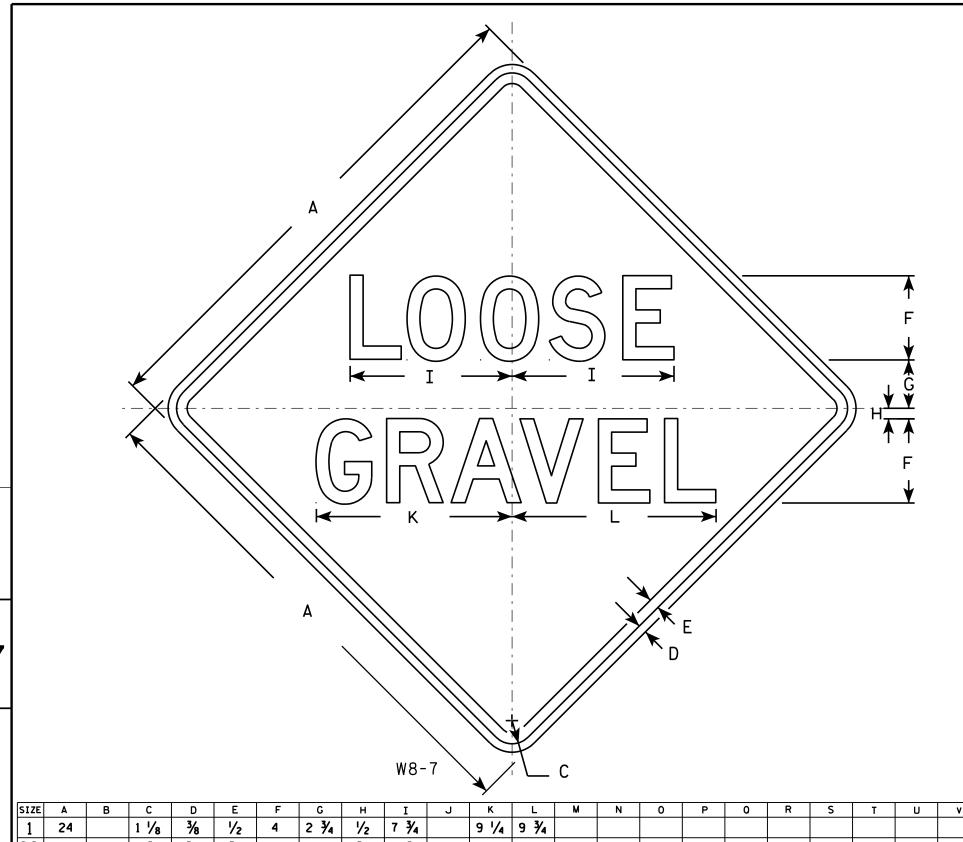
PROJECT NO:

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 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.

Areg sq. ft. 4.0 25 1 5/8 3/4 4 1/8 3/₄ 11 5/₈ 5/8 36 14 14 1/2 9.0 2M 1 5/8 3/4 4 1/8 3/₄ 11 5/₈ 5/8 36 14 1/2 9.0 3 36 1 1/8 5/8 3/4 4 1/8 3/₄ | 11 5/₈ 14 1/2 9.0 14 ₹4 4 1 % 5/8 4 1/8 3/₄ | 11 5/₈ 14 1/2 36 14 9.0 5 5 1/2 18 % 19 % 3/4 48 2 1/4 15 1/2 16.0

COUNTY:

STANDARD SIGN W8 - 7

WISCONSIN DEPT OF TRANSPORTATION

Matther R Rauch State Traffic Engineer
/12 PLATE NO. W8-7.7 DATE 5/30/12

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W87.DGN

PROJECT NO:

HWY:

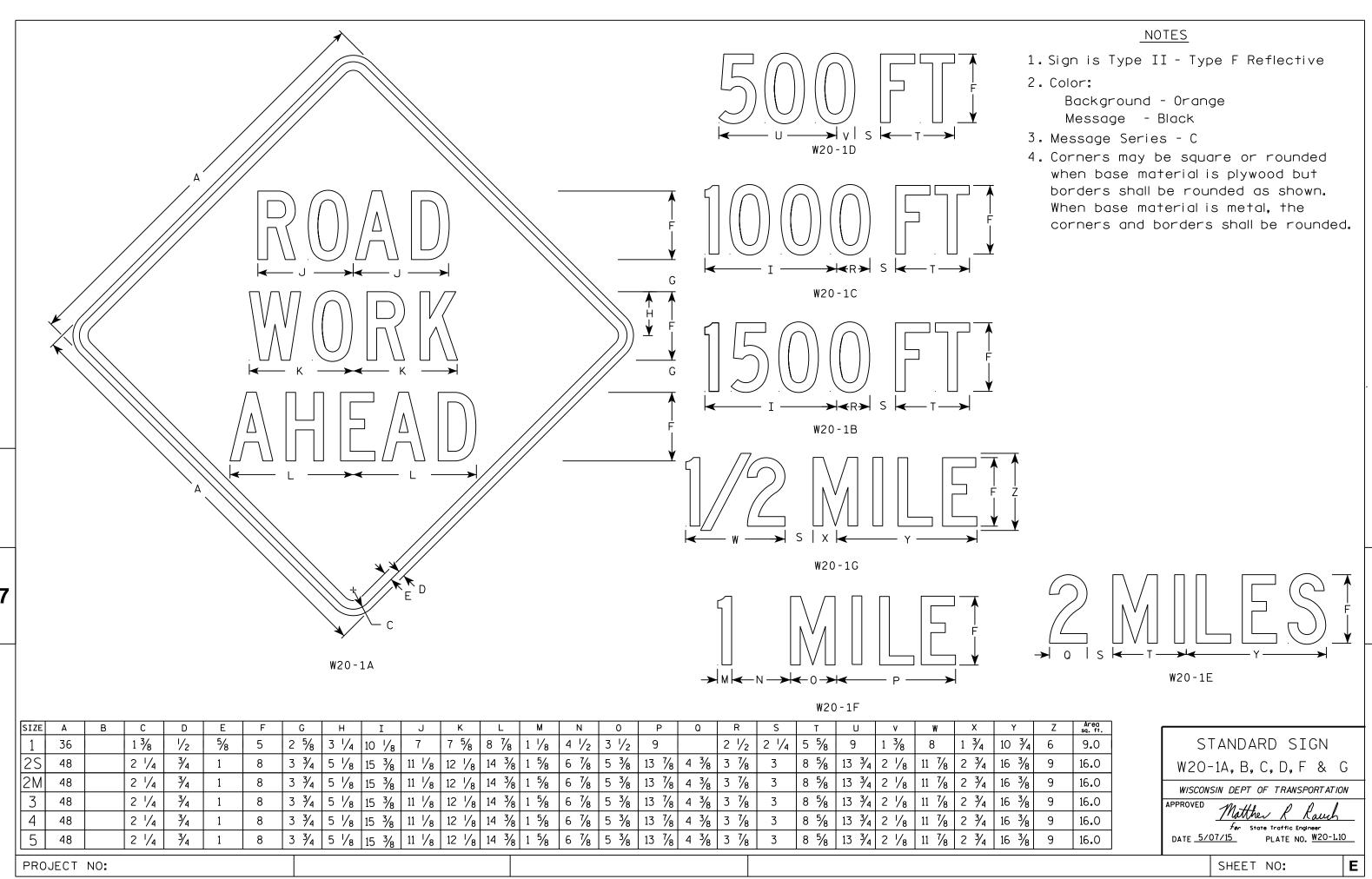
PLOT DATE: 30-MAY-2012 13:41

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.706180:1.000000

WISDOT/CADDS SHEET 42



FILE NAME . C.\CAFfiles\Projects\tr stdolote\W201 DCN

PLOT DATE . 01-DEC-2015 18.24

PIOT RY * \$\$ plotuser \$\$



1. Sign is Type II - Type F Reflective

2. Color:

Background - Orange 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.

W08-2 5/8 1 5/8 9.0 36 10 5 11 $\frac{7}{8}$ | 13 $\frac{1}{2}$ 3/4 48 2 1/4 14 1/4 16 1/4 16.0 12 6 48 2 1/4 3/4 12 14 1/4 16 1/4 16.0 3 48 2 1/4 3/4 12 6 14 1/4 16 1/4 16.0 4 48 2 1/4 3/4 6 14 1/4 16 1/4 16.0 12 5 6 48 2 1/4 12 | 14 |/4 | 16 |/4 | HWY: COUNTY:

STANDARD SIGN WO8-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

√State Traffic Engineer

DATE <u>3/7/19</u>

PLATE NO. WO8-2.2 Ε

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W082.DGN

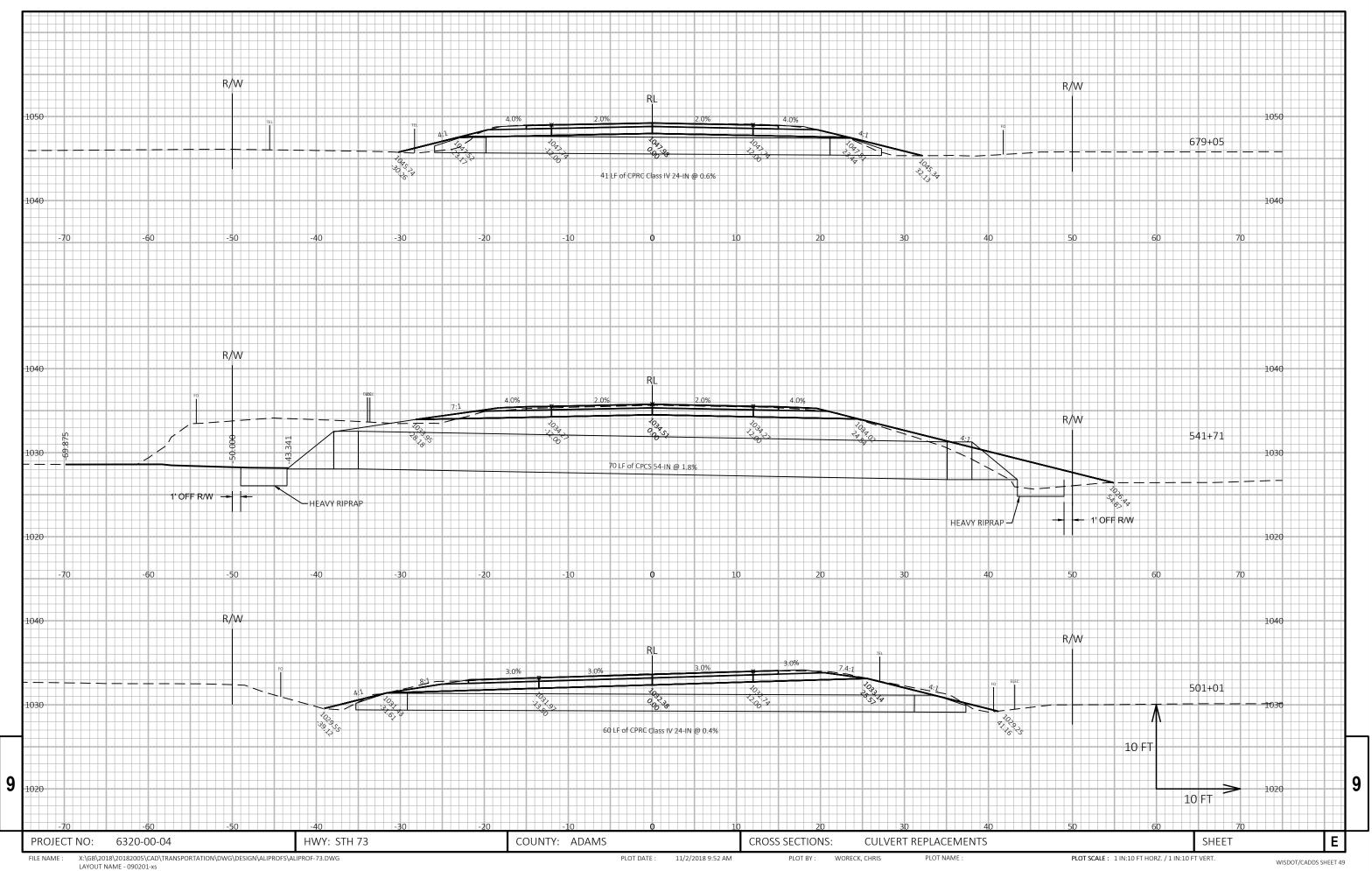
PROJECT NO:

PLOT DATE : 07-MAR-2019

PLOT BY : dotc4c

PLOT NAME :

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





Wisconsin Department of Transportation

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