SUP FEBRUARY 2018 FEDERAL PROJECT STATE PROJECT ORDER OF SHEETS STATE OF WISCONSIN PROJECT CONTRACT 1196-00-70 WISC 2018099 Section No. 1 Title DEPARTMENT OF TRANSPORTATION Typical Sections and Details Section No. 2 Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantitles ₽ PLAN OF PROPOSED IMPROVEMENT Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates **MINONG - SOLON SPRINGS** 9 BUS 53 (MINONG) TO CTH T (NB) **O** Section No. 9 Cross Sections **USH 53** 00-TOTAL SHEETS = 178 WASHBURN & DOUGLAS COUNTIES END PROJECT - 1196-00-70 STATE PROJECT NUMBER STA. 436+47.29 1196-00-70 R-12-W T-43-N EXCEPTION TO NET CL LENGTH DESIGN DESIGNATION 1196-00-00 STA. 314+98.23 - STA. 317+67.26 B-65-28 A.A.D.T. 2018 = 5100 A.A.D.T. 2038 = 6300 D.H.V. = 865 Peterson D.D. = 61/39 = 18.0% DESIGN SPEED = 70 MPH ESALS = 3,200,000 CONVENTIONAL SYMBOLS BEGIN PROJECT - 1196-00-70 PROFILE STA, 208+20 CORPORATE LIMITS GRADE LINE ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE T-42-N (To be noted as such) W LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY STATE OF WISCONSIN GRADE ELEVATION PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION CULVERT (Profile View) SLOPE INTERCEPT REPARED BY UTILITIES REFERENCE LINE WISDOT NW REGION Surveyor ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT Project Manager GAS Fish (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE **(**) WATER MARSH AREA HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, WASHBURN COUNTY, NAD83 (1991), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 4.89 MI. POWER POLE Ġ GRID DISTANCES MAY BE USED AS GROUND DISTANCES. WOODED OR SHRUB AREA TELEPHONE POLE Ø FILE NAME: N:\PDS\C3D\11960000\SHEETSPLAN\TITLE\010101_TI.DWG LAYOUT NAME - **** PLOT DATE : 7/24/2017 9:48 AM PLOT BY : PLOT NAME : WISDOT/CADDS SHEET 10

LIST OF STANDARD ABBREVIATIONS

ABUTMENT ABUT. AGGREGATE AGG. AHEAD APPROX. **APPROXIMATE** APRON ENDWALL A.E.W. **ASPHALTIC** AVERAGE DAILY TRAFFIC A.D.T. AZIMUTH AZ. BK. BEG. B.M. BACK BEGIN BENCH MARK C/L CENTER LINE CONC. CONST. CONSTRUCTION

CONC. CONCRETE
CONST. CONSTRUCTION
CO. COUNTY
C.T.H. COUNTY TRUNK HIGHWAY
X-SEC. CROSS SECTION
CR. CRUSHED
CFS CUBIC FEET/SECOND
C.Y., CU. YD. CUBIC YARD

CULV. CULVERT
C.P. CULVERT PIPE
D.O.T. DEPARTMENT OF TRANSPORTATION
D.H.V. DESIGN HOUR VOLUME

DIA. DIAMETER
D. DIRECTIONAL DISTRIBUTION
DISCH. OR DIS. DISCHARGE

EA. EACH
ELECT. ELECTRIC
EL. OR ELEV. ELEVATION
EMB. EMBANKMENT

EMB. EMBANKMENT
E.B.S. EXCAVATION BELOW SUBGRADE
EXIST. EXISTING

EXISTING
FERT. FERTILIZE
F.E. FIELD ENTRANCE
FIN. FINISHED
FT. FOOT
F.L. FLOW LINE
GA. GAUGE
HORIZ. HORIZONTAL
CWT. HUNDREDWEIGHT
INL. INLET
LT. LEFT

LT. LEFT-HAND FORWARD LINEAR LINEAR FOOT LUMP SUM LIN. LIN. FT. L-S-MAX. MAXIMUM MI. MISCELLANEOUS MISC. NORTH EAST NORTH WEST N.E. N.W. PAV'T PAVEMENT

PAVI PAVEMENT
P.C. POINT OF CURVATURE
P.I. POINT OF INTERSECTION
P.T. POINT OF TANGENCY
P.O.T. POINT ON TANGENT
LB. POUND
P.E. PRIVATE ENTRANCE
PROJ. PROJECT
R. RANGE
REQUIRED
RT. RIGHT
R.H.F. RIGHT
R.H.F. RIGHT

R/W RIGHT OF WAY
RD. ROAD
SHR. SHRINKAGE
SL. SLOPE
STD. STANDARD
S.D.D. STANDARD DET

S.D.D. STANDARD DETAIL DRAWINGS
S.T.H. STATE TRUNK HIGHWAY
STA. STATION
S.P.P.A. STRUCTURAL PLATE PIPE ARCH

STRUCTURAL
STRUCTURE
STRUCTURE
SURF.
SURFACE
TEL.
TELEPHONE

TN. TOWN
T. TRUCKS (PERCENT OF)
UNCL. UNCLASSIFIED

U.G. UNDERGROUND
V. VELOCITY OR DESIGN SPEED
V.C. VERTICAL CURVE

GENERAL NOTES

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

SOME UTILITY LOCATIONS HAVE CHANGED. THE CONTRACTOR SHALL LOCATE UTILITIES PRIOR TO ANY EXCAVATION.

WHEN THE QUANTITY OF BASE AGG. DENSE AND ASPHALTIC PAVEMENT ARE MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

CURVE DATA SHOWN ON THE PLAN IS "ARC DEFINITION".

SURVEY IS REFRENCED TO THE WASHBURN/DOUGLAS COUNTY COORDINATE SYSTEM, WISCONSIN; NAD83 (1991); NAVD88 (GEOID 12A)

ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS BETWEEN THE SUBGRADE SHOULDER POINTS, SHALL BE SEEDED, MULCHED AND STABILIZED WITHIN 7 WORKING DAYS.

PRIOR TO THE PLACEMENT OF MGS GUARDRAIL, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.

NO TREE SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

EXPANSION JOINTS TO BE CONSTRUCTED AT ALL RADIUS POINTS IN CURB AND GUTTER OR AT LOCATIONS SHOWN ON THE PLAN.

ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

CROSS SECTION ELEVATIONS ARE BASED ON THE AVAILABLE T.I.N. MODEL AND MAY NEED VERIFICATION IN THE FIELD.

UTILITIES

DALBERG LIGHT AND POWER - ELEC 9221 E. MAIN P.O. BOX 300 SOLON SPRINGS, WI 54873-0300

ATTN: JAMES DAHLBERG PHONE: 715-378-2205

EMAIL: JIMDAHLBERG@DAHLBERGLIGHTANDPOWER.COM

WE ENERGIES 104 W. SOUTH ST RICE LAKE, WI 54868 ATTN: LEWIS KNAPP PHONE: 715-234-9605

EMAIL:LEWIS.KNAPP@WE-ENERGIES.COM

EAST CENTRAL ENERGY - ELEC 3617 BAUMGARTNER RD SUPERIOR, WI 54880 ATTN: JEROD STAMPER PHONE: 715-399-6169

EMAIL: JEROD.STAMPER@ECEMN.COM

GREAT RIVER ENERGY - ELEC 12300 ELM CREEK BLVD MAPEL GROVE, MN 55369-4718 PHONE: 763-445-5977 ATTN: MICHELLE LOMMEL EMAIL: MLOMMEL@GRENERGY.COM

CENTURYLINK
PO BOX 181
SOLON SPRINGS, WI 54873
ATTN: ALAN NICKELL
(715) 378-2131
ALAN.NICKELL@CENTURYLINK.COM

PACKERLAND BROADBAND - COMM P.O. BOX 190 IRON MOUNTAIN, MI 49801 ATTN: WAYNE CRETTON PHONE: 906-282-3768 EMAIL: WAYNE.CRETTON@PLBB.US

DNR CONTACT
AMY CRONK
WDNR - NORTHWEST DISTRICT
HEADQUARTERS
810 WEST MAPLE STREET
SPOONER, WI 54801
(715) 635-4227

DESIGN CONTACT
MATTHEW VAN NATTA
WISDOT NORTHWEST REGION
1701 N. 4TH STREET
SUPERIOR WI, 54880
PHONE: (715) 395-7934

WASHBURN COUNTY HIGHWAY
OPERATIONS MANAGER
FRANK SCALZO
1600 COUNTY HIGHWAY H
SPOONER, WI 54801
PHONE: (715) 635-4480

DOUGLAS COUNTY HIGHWAY COMMISSIONER JASON JACKMAN 7417 COUNTY ROAD E. P.O. BOX 174 HAWTHORN, WI 54842 (715) 374-2575

WASCOTT TOWN CHAIR LYNN KOALSKA 16362S TOWN HALL ROAD WASCOTT, WI 54890 (715) 376-2279 VILLAGE OF MINONG PRESIDENT MICHAEL BOBIN

MICHAEL BOBIN 845 GREENHAVEN ST. MINONG, WI 54859 PHONE: (715) 791-9366

MINONG TOWN CHAIRMAN
HAROLD SMITH
N13124 GREENWOOD RD
MINONG, WI 54859
PHONE: (715)416-3469

Dial or (800)242-8511
www.DiggersHotline.com

PROJECT NO: 1196-00-70

HWY: USH 53 NB

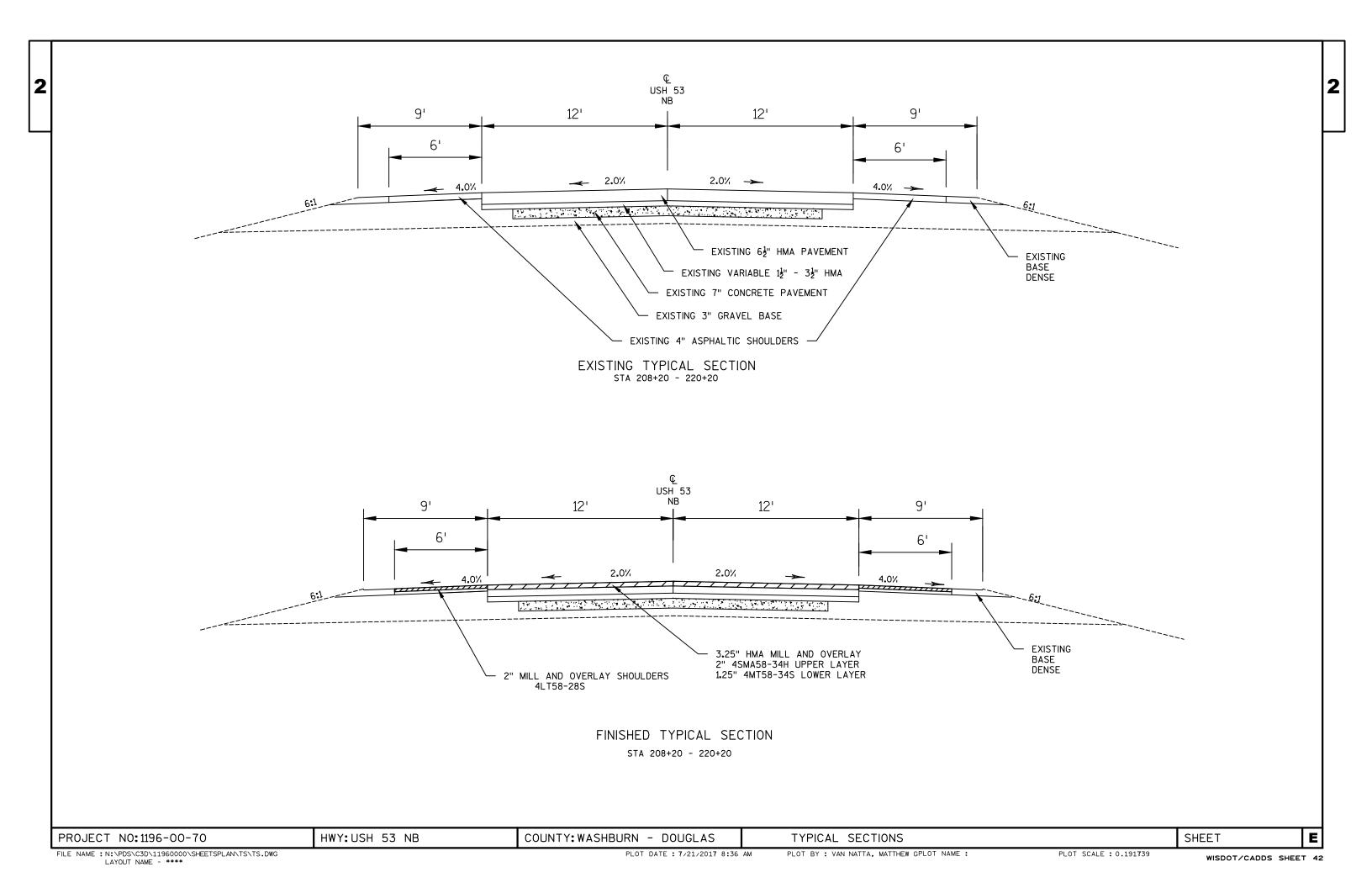
COUNTY: WASHBURN - DOUGLAS

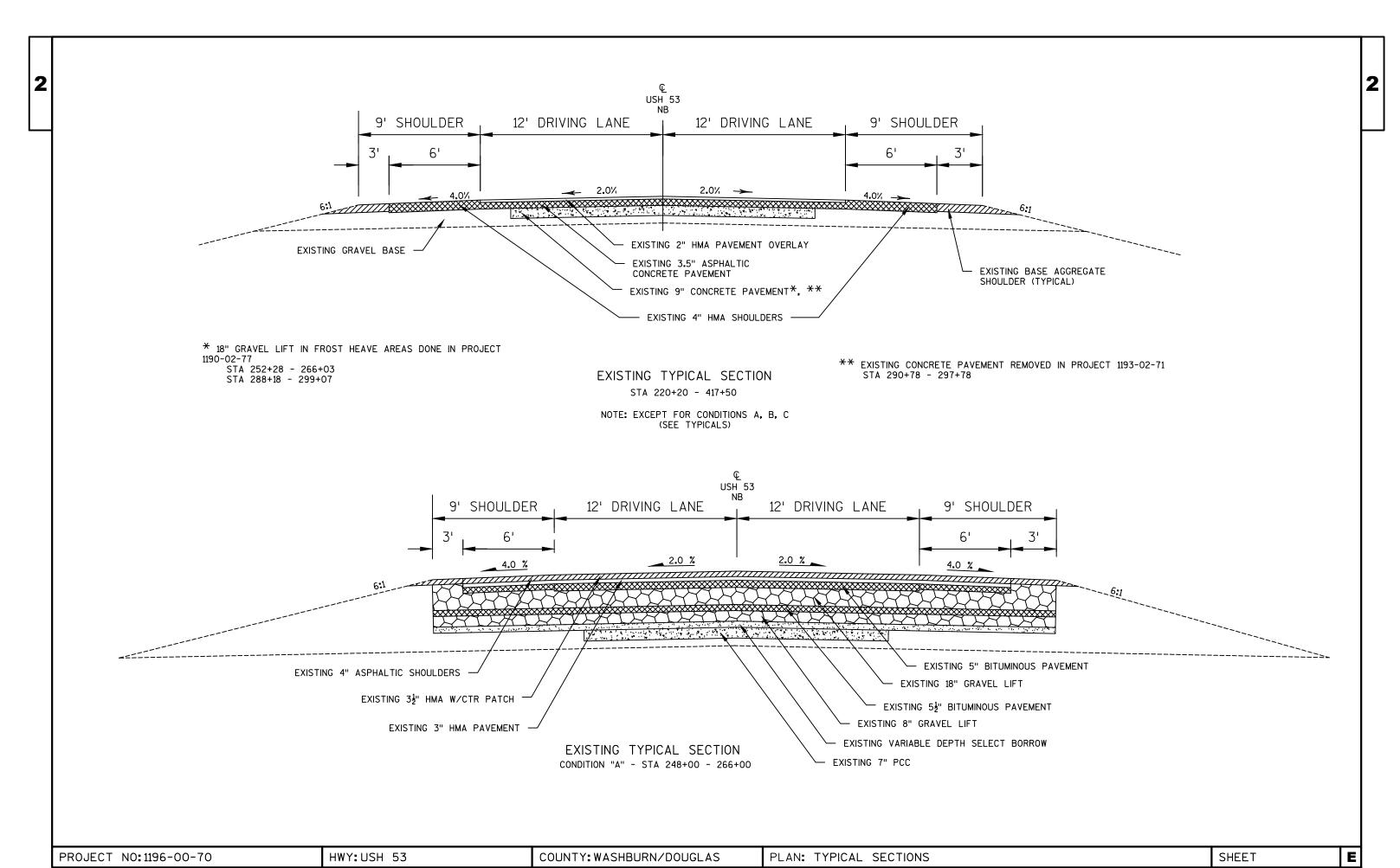
GENERAL NOTES

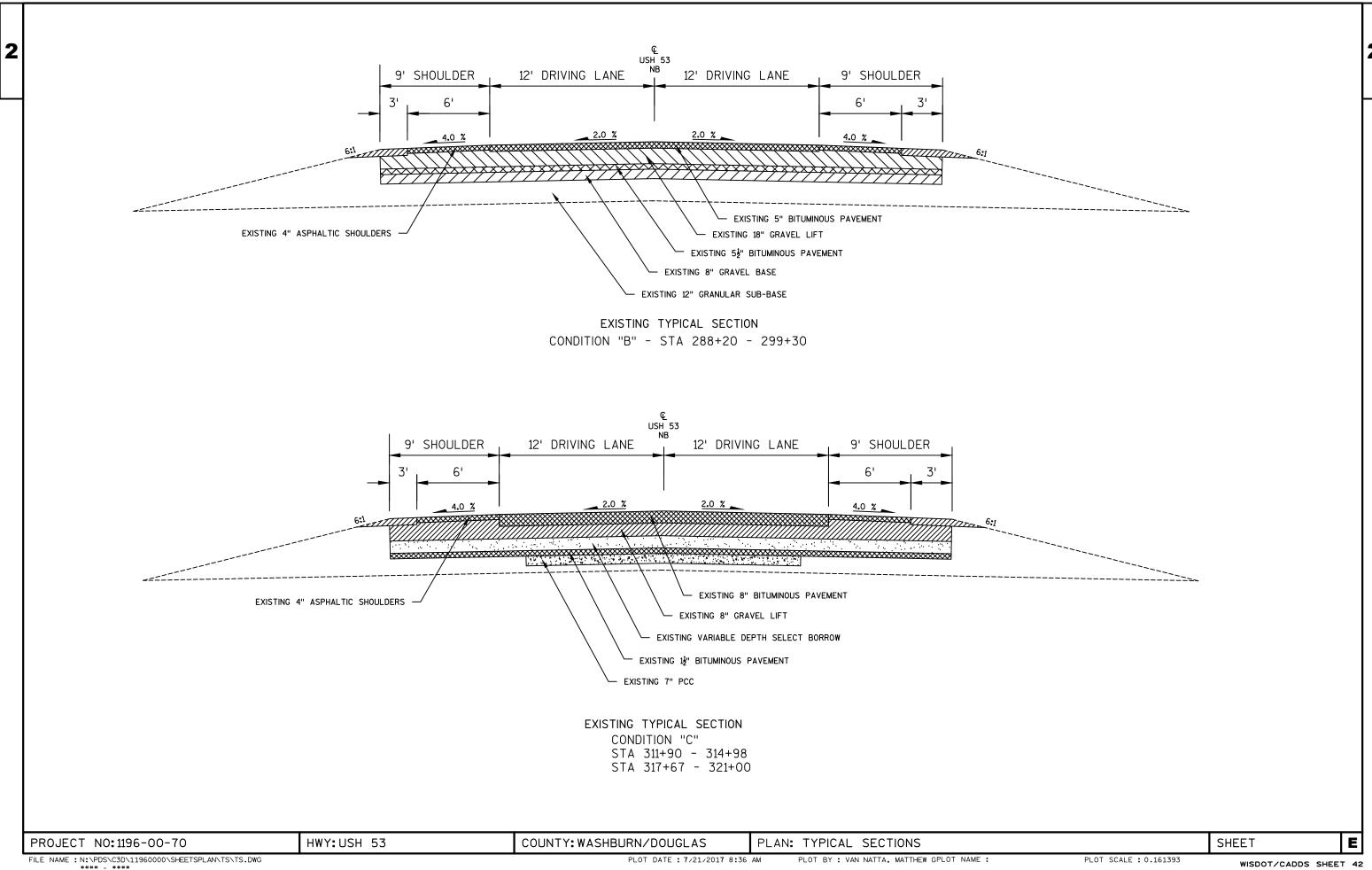
PLOT BY : VAN NATTA, MATTHEW GPLOT NAME :

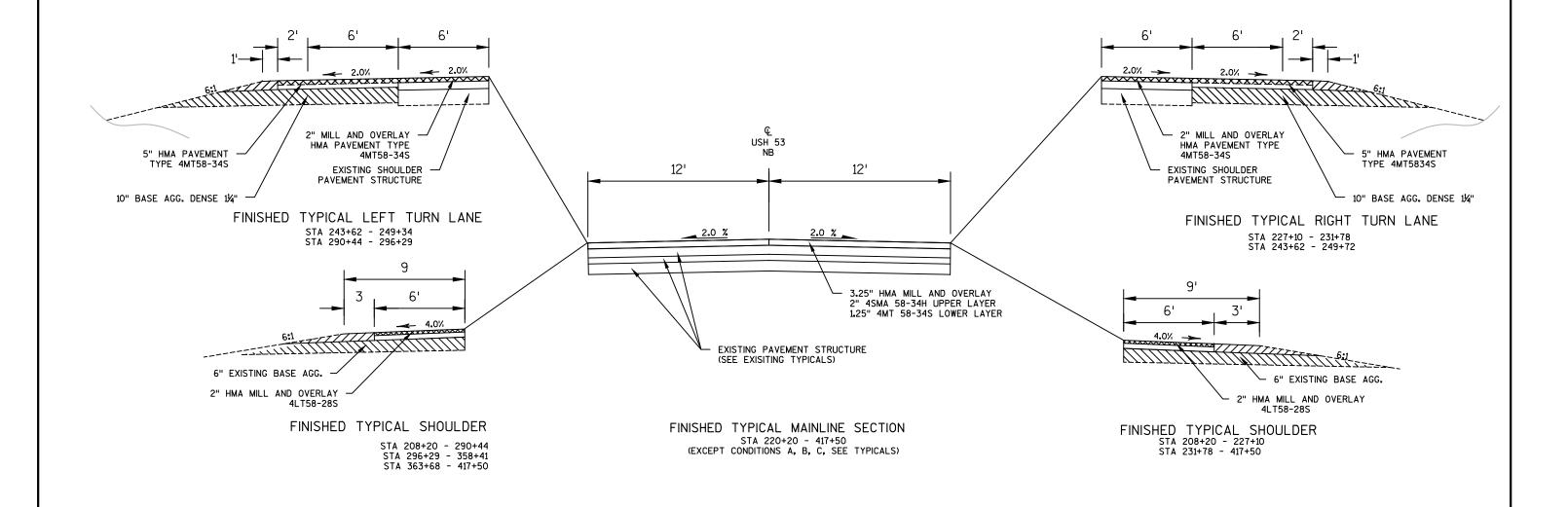
SHEET

E





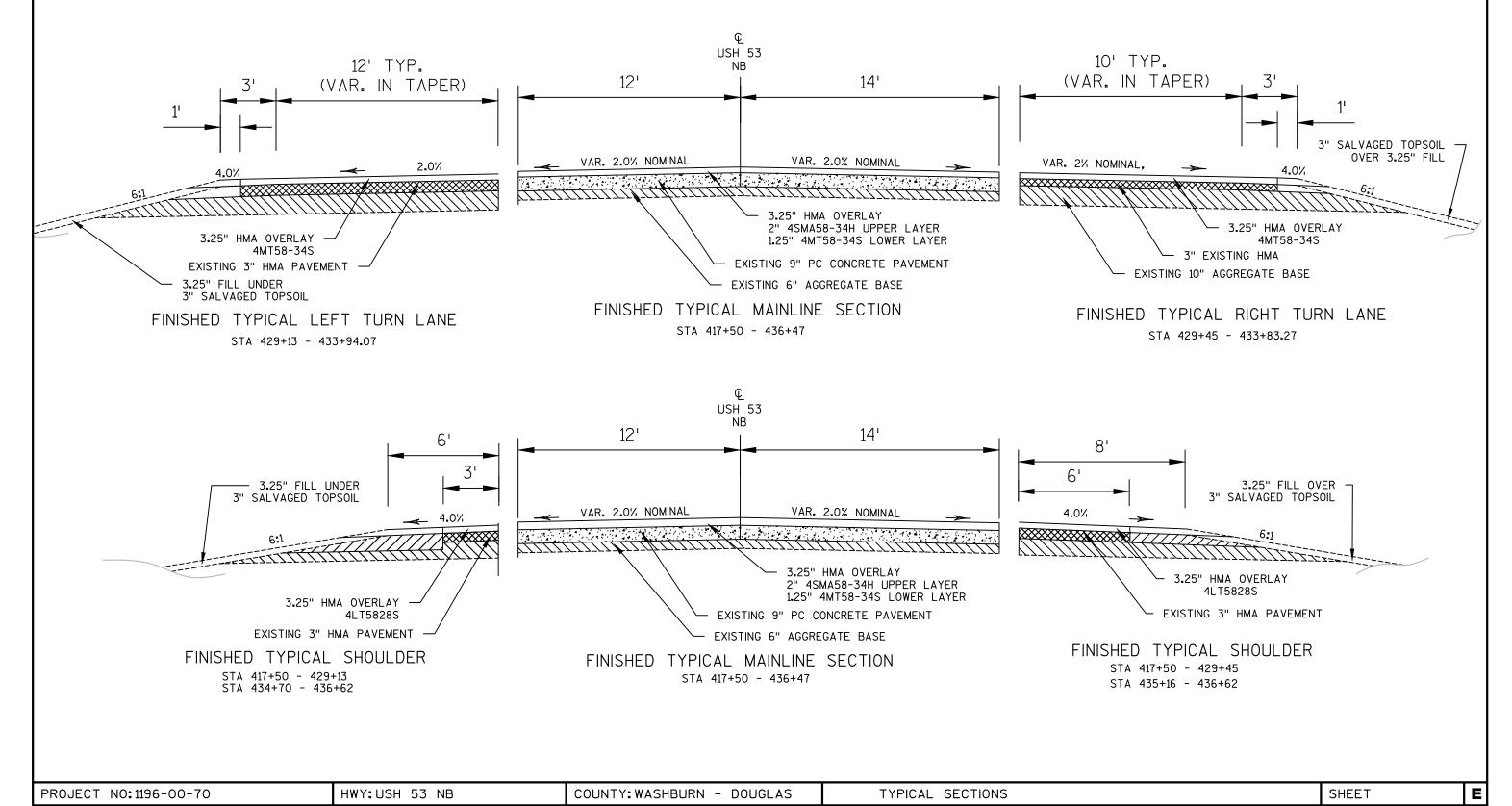


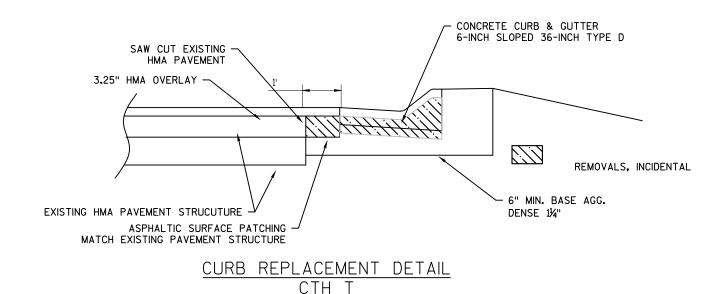


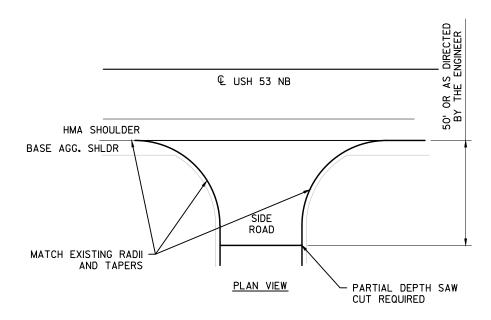
PROJECT NO:1196-00-70 HWY:USH 53 NB COUNTY:WASHBURN - DOUGLAS TYPICAL SECTIONS SHEET **E**



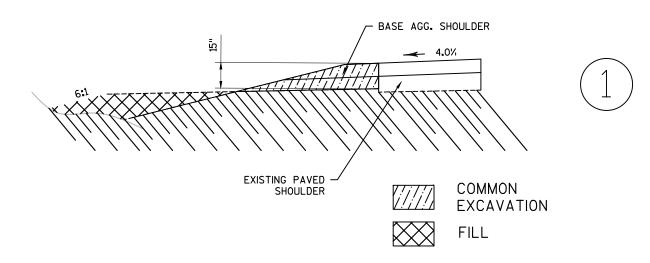


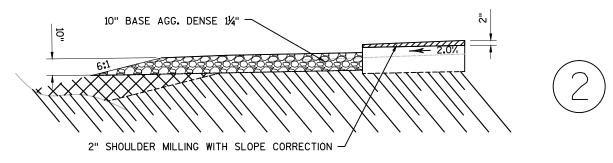


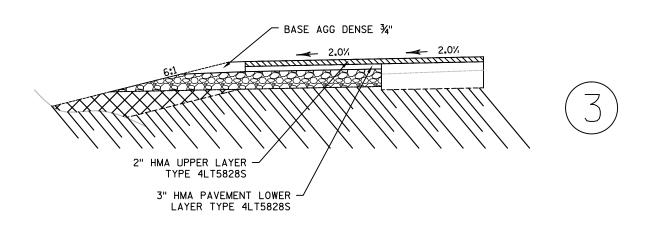




SIDE ROAD AND DRIVEWAY PAVING DETAIL W/O CURB & GUTTER

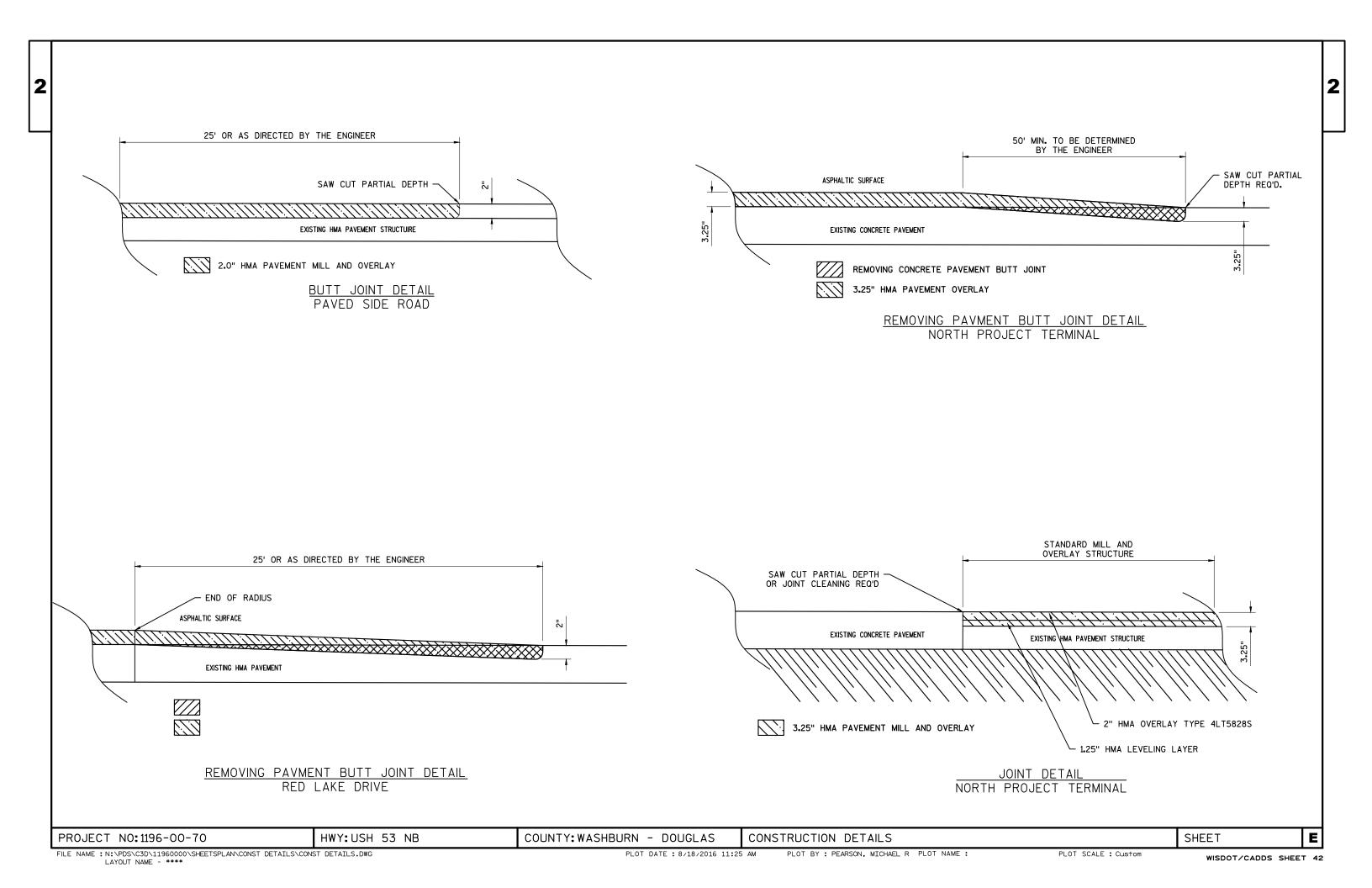




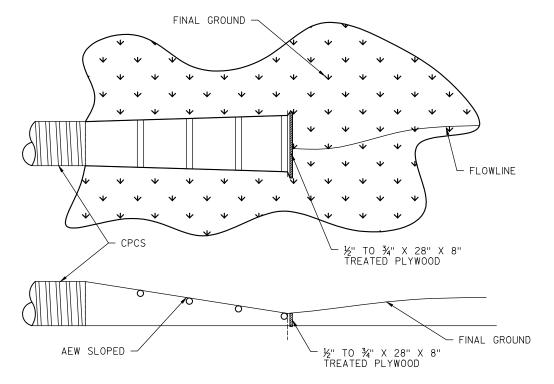


<u>turn lane grading and paving detail</u>

PROJECT NO:1196-00-70 HWY:USH 53 NB COUNTY:WASHBURN - DOUGLAS CONSTRUCTION DETAILS SHEET **E**



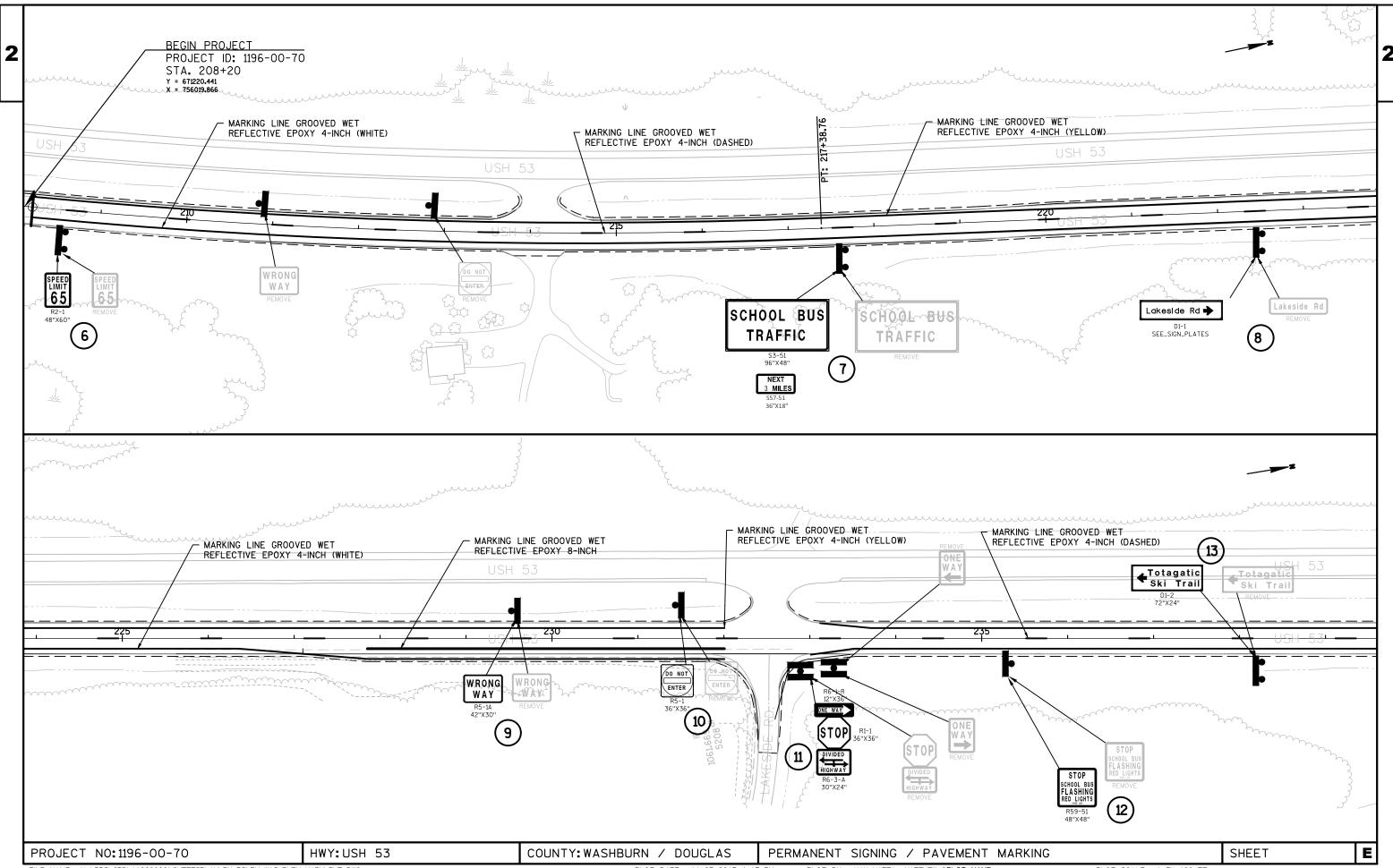
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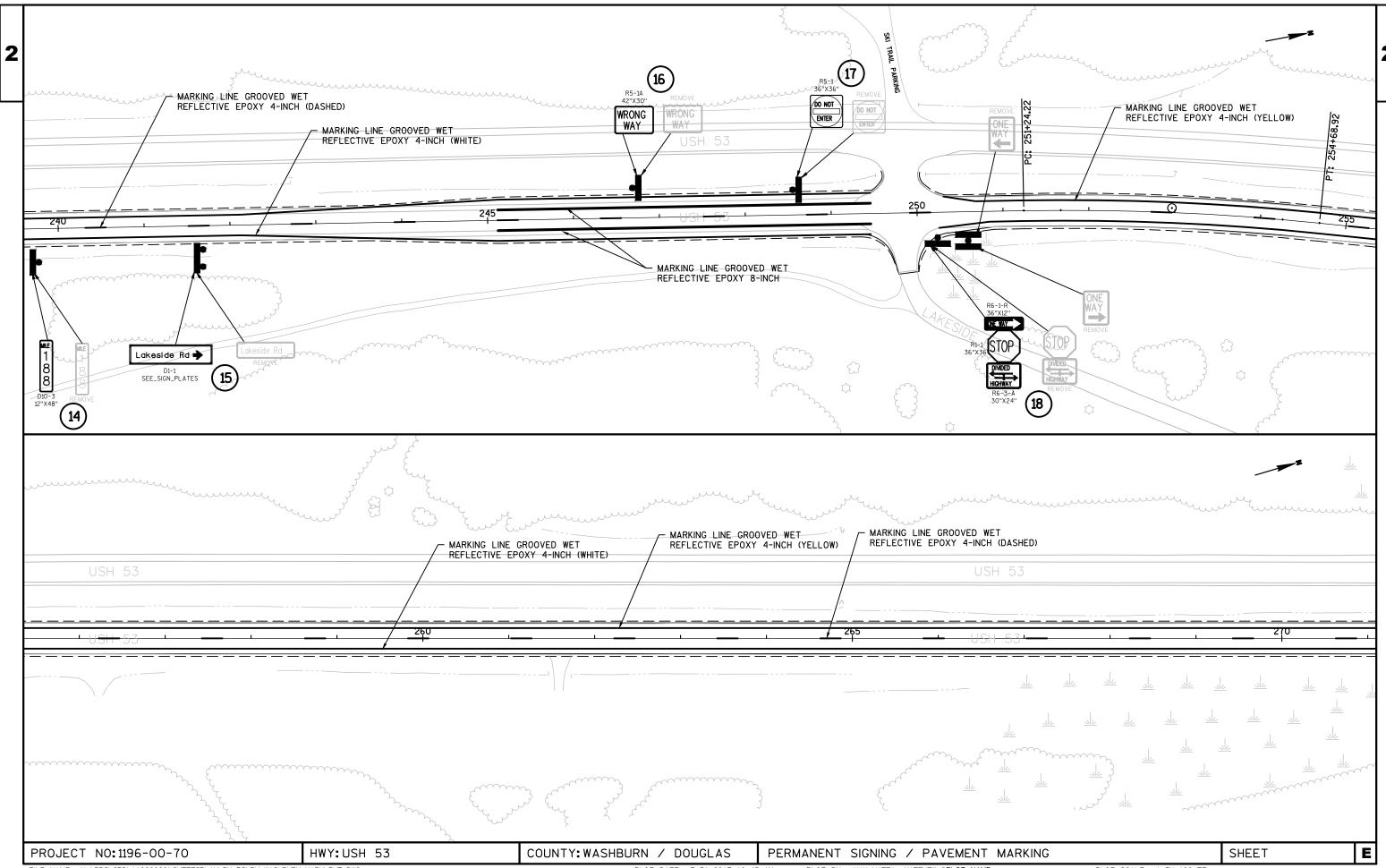


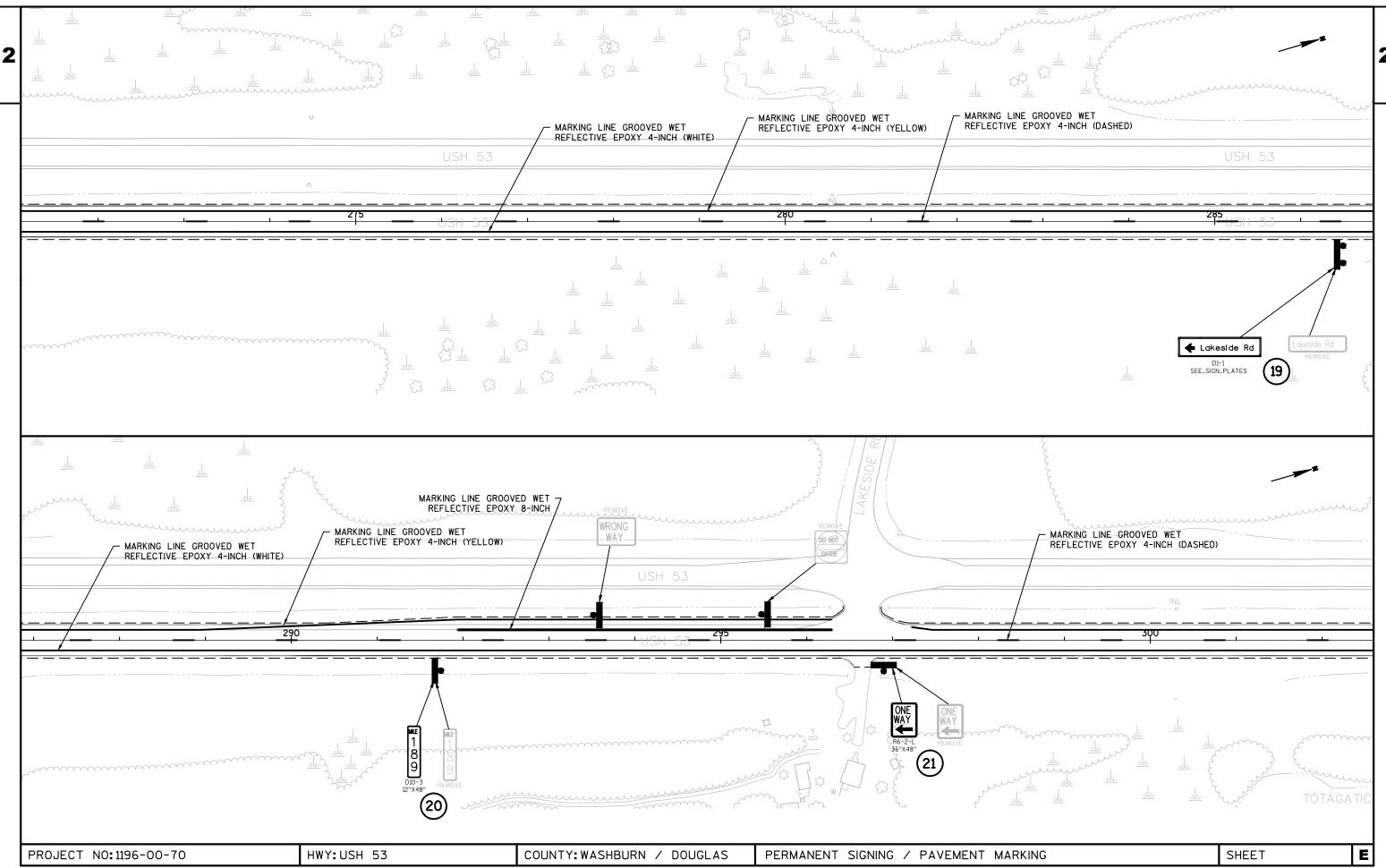
OPTIONAL APRON ENDWALL FOR CULVERT PIPE SLOPED SIDE DRAIN 18-INCH 10 TO 1

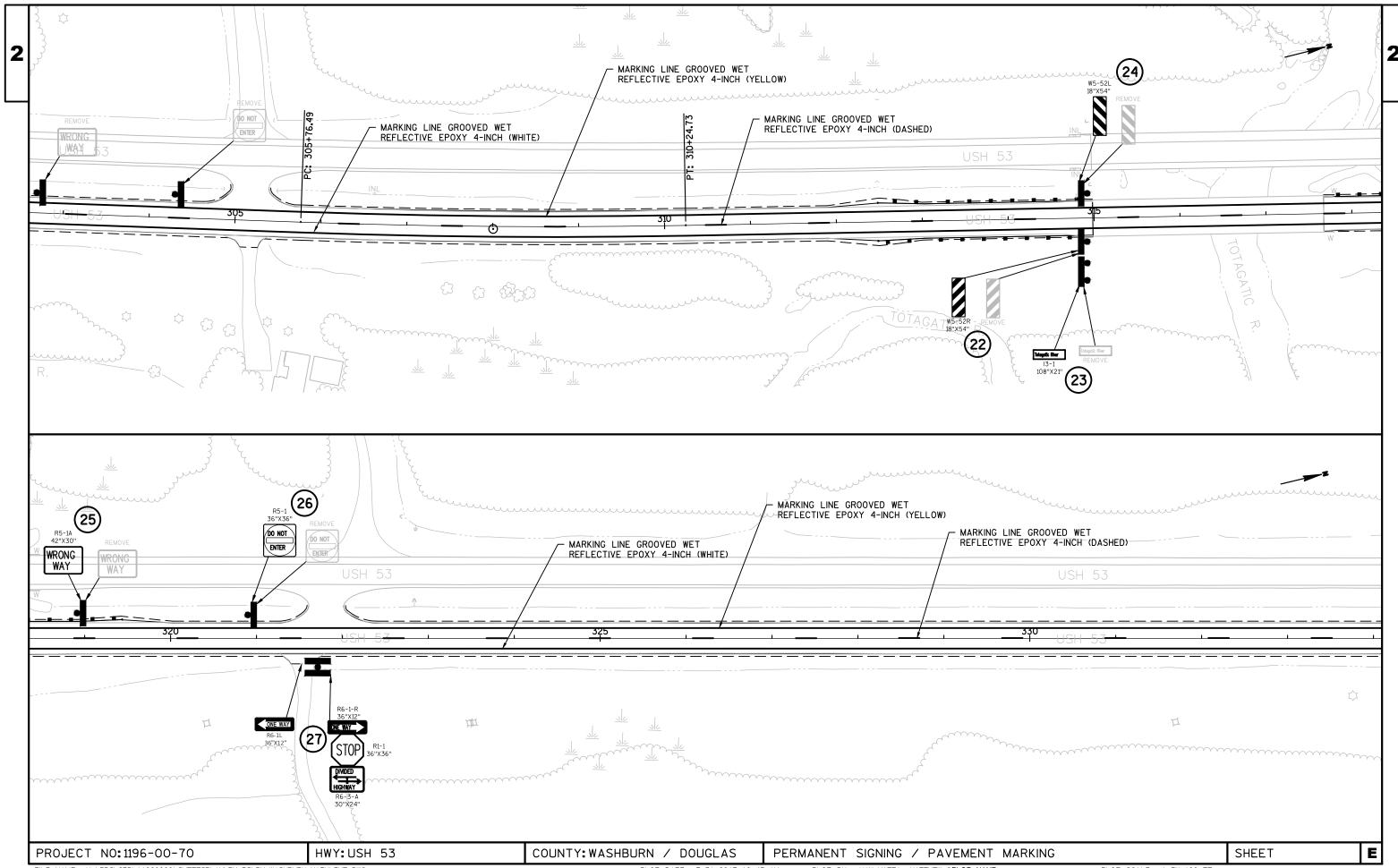
LOCATIONS DETERMINED IN THE FIELD BY THE ENGINEER

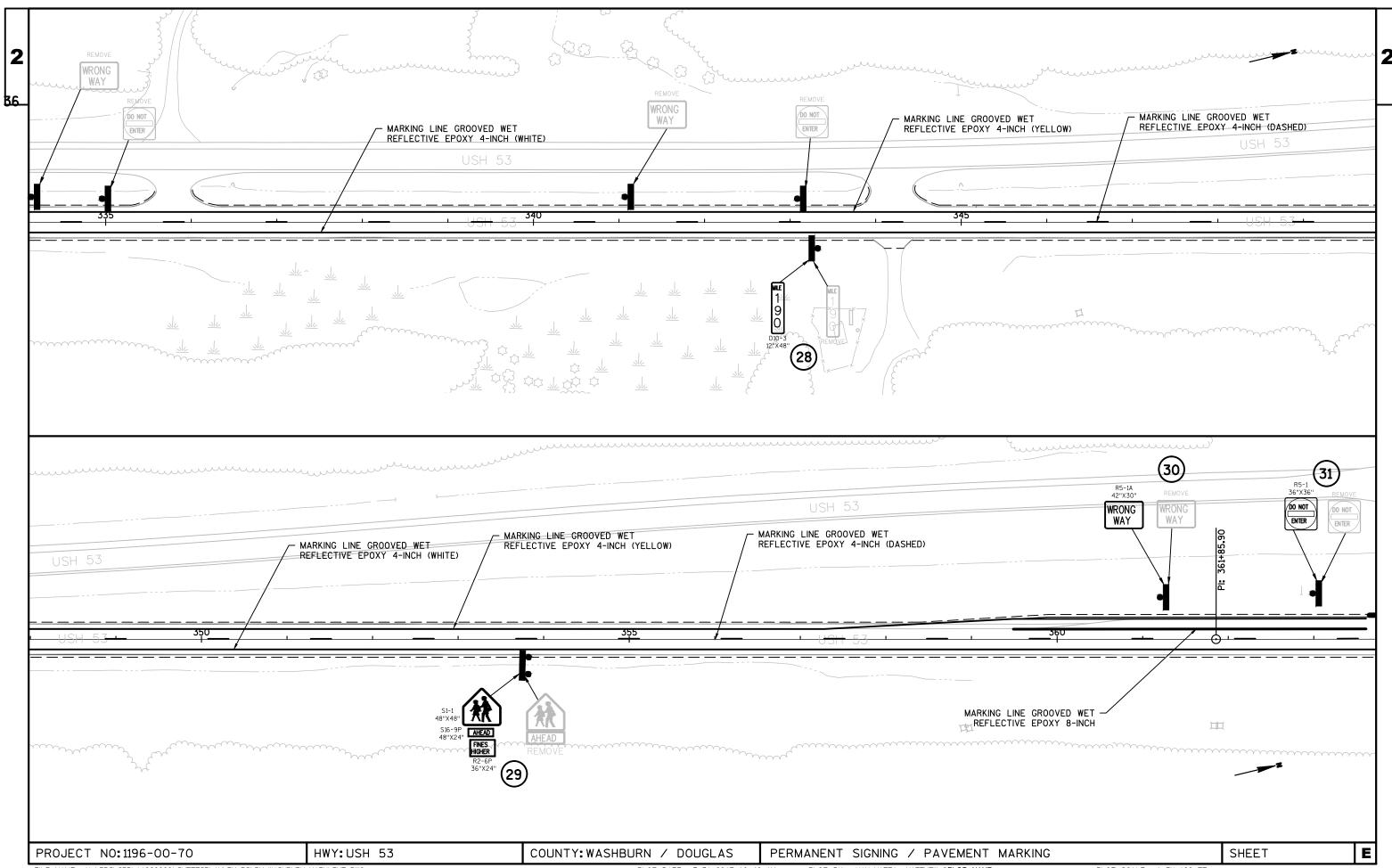
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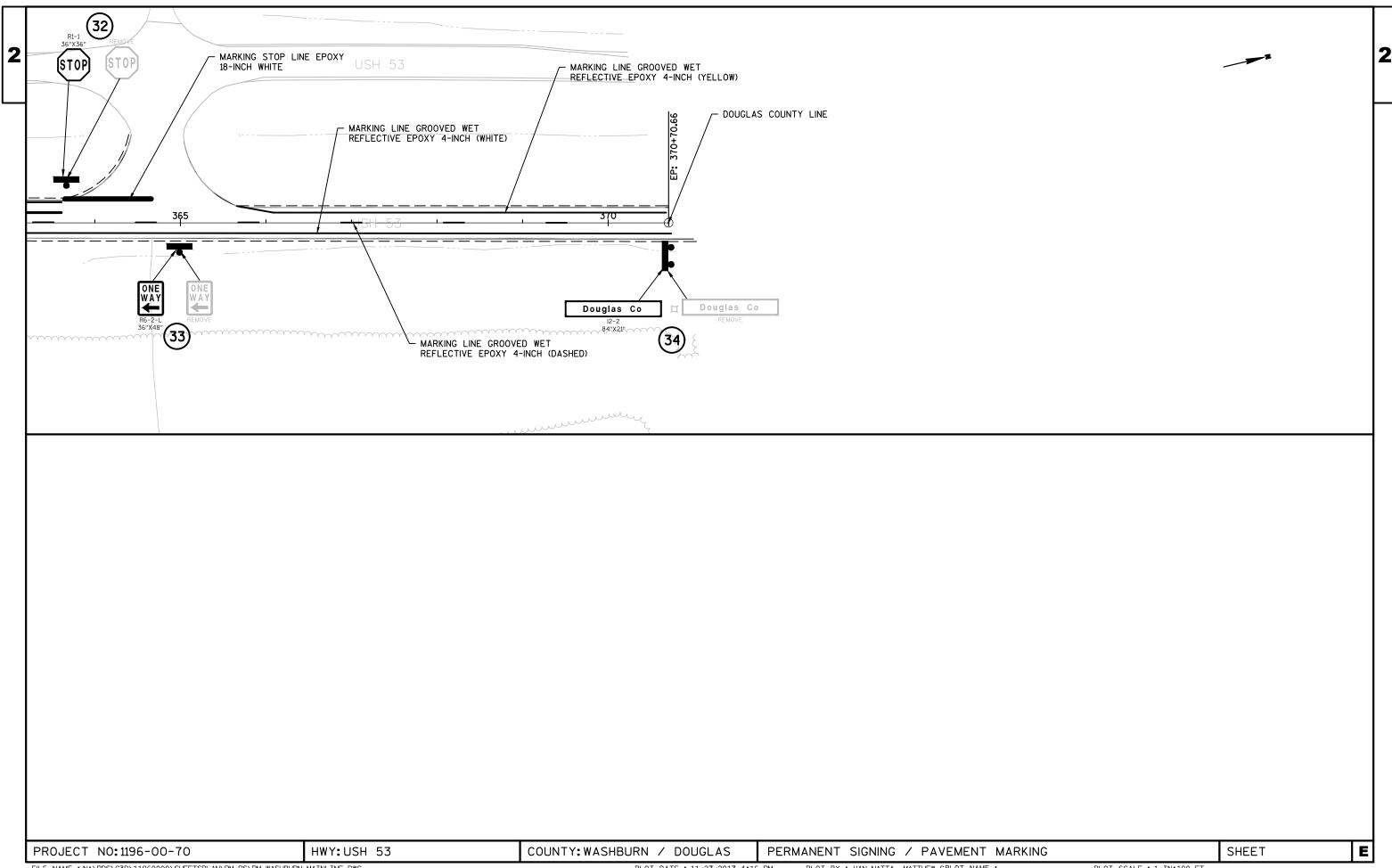


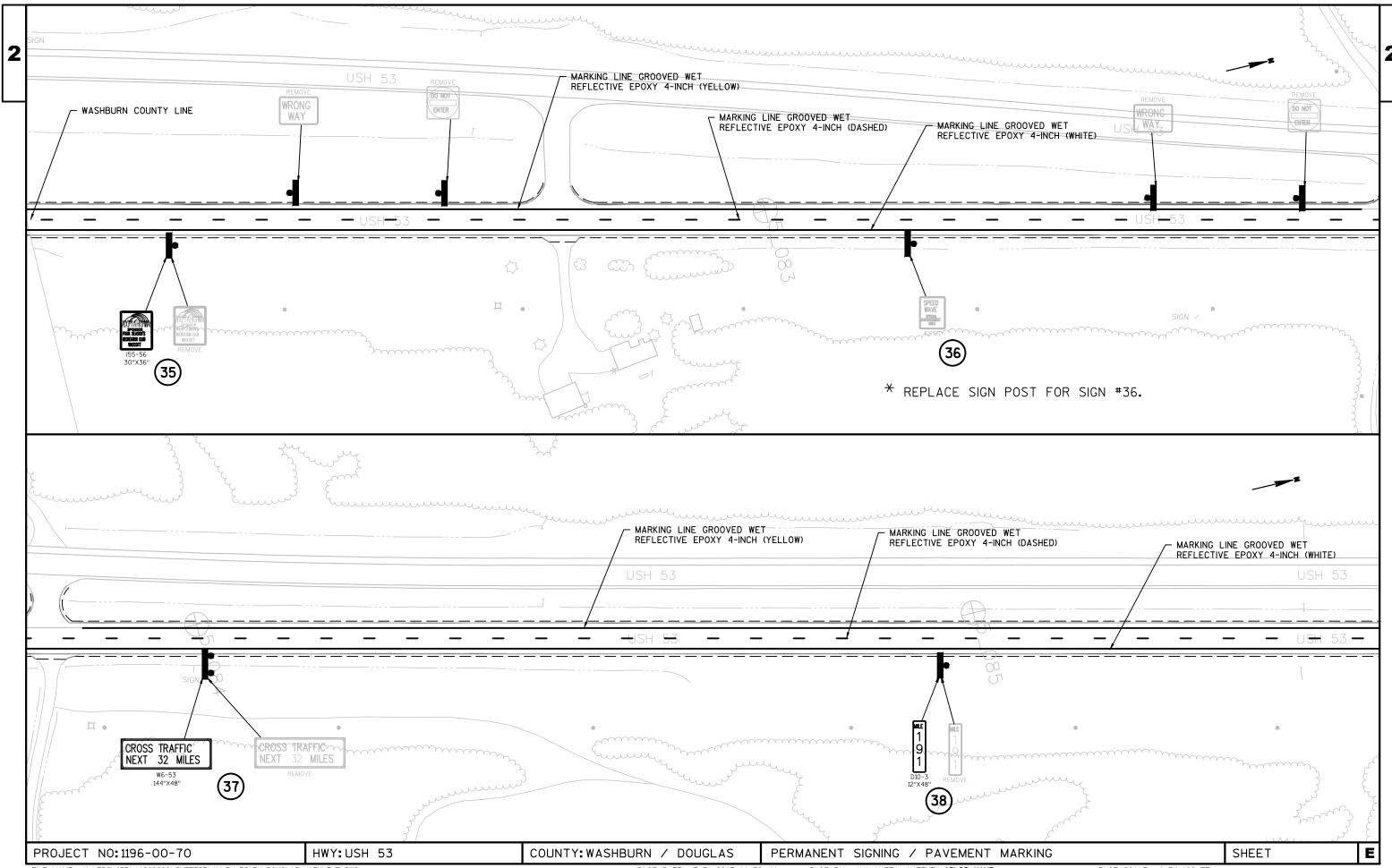


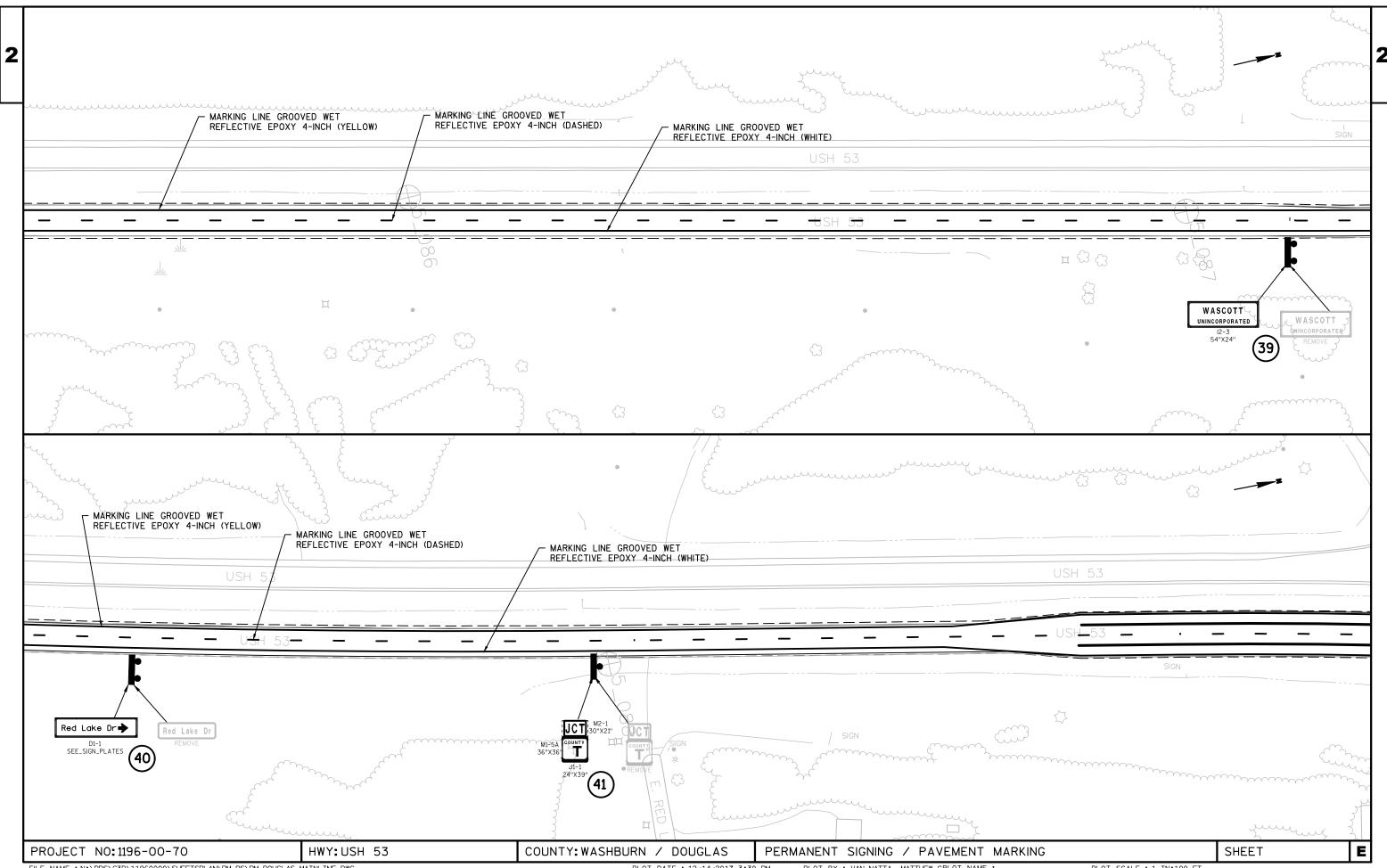


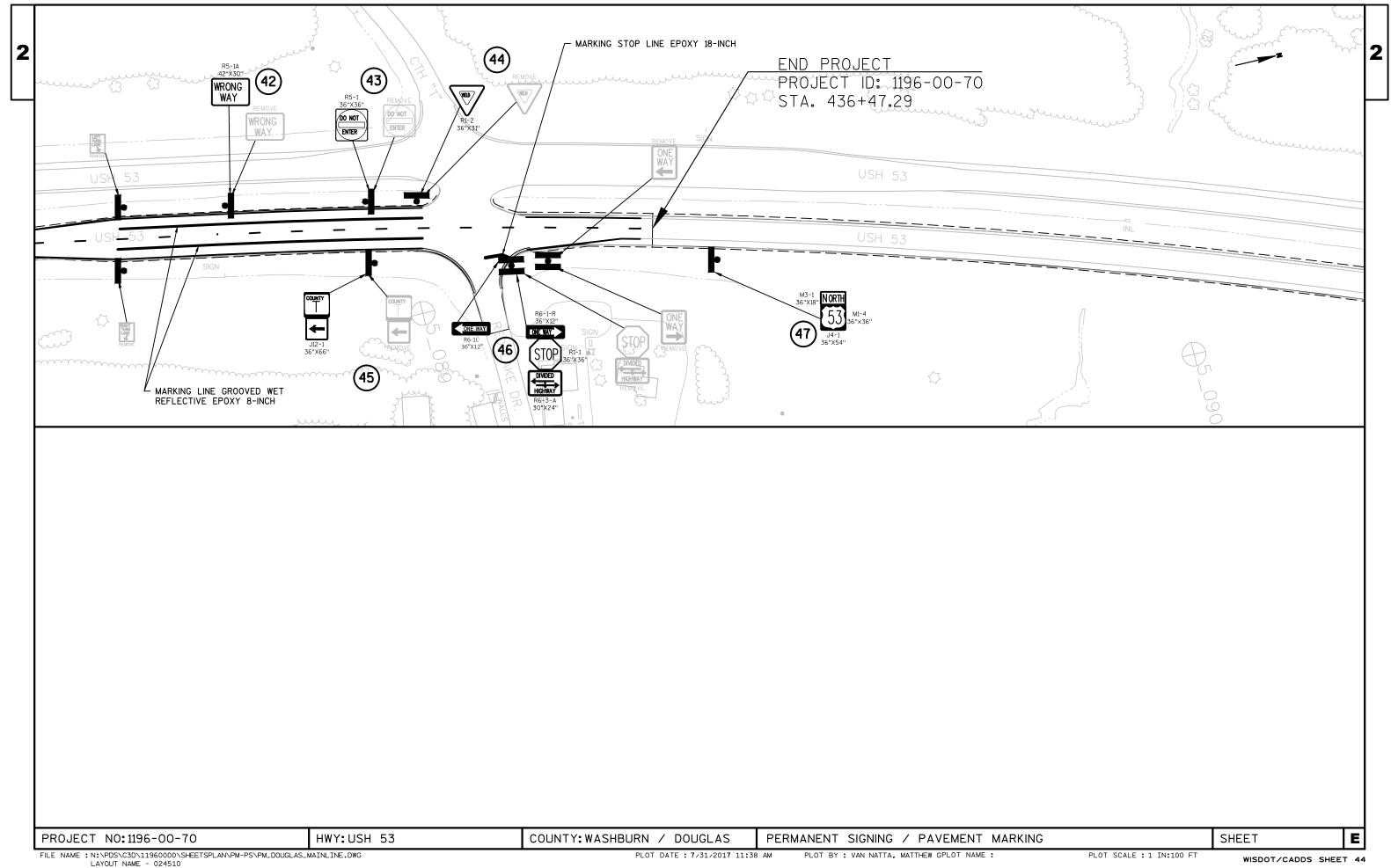


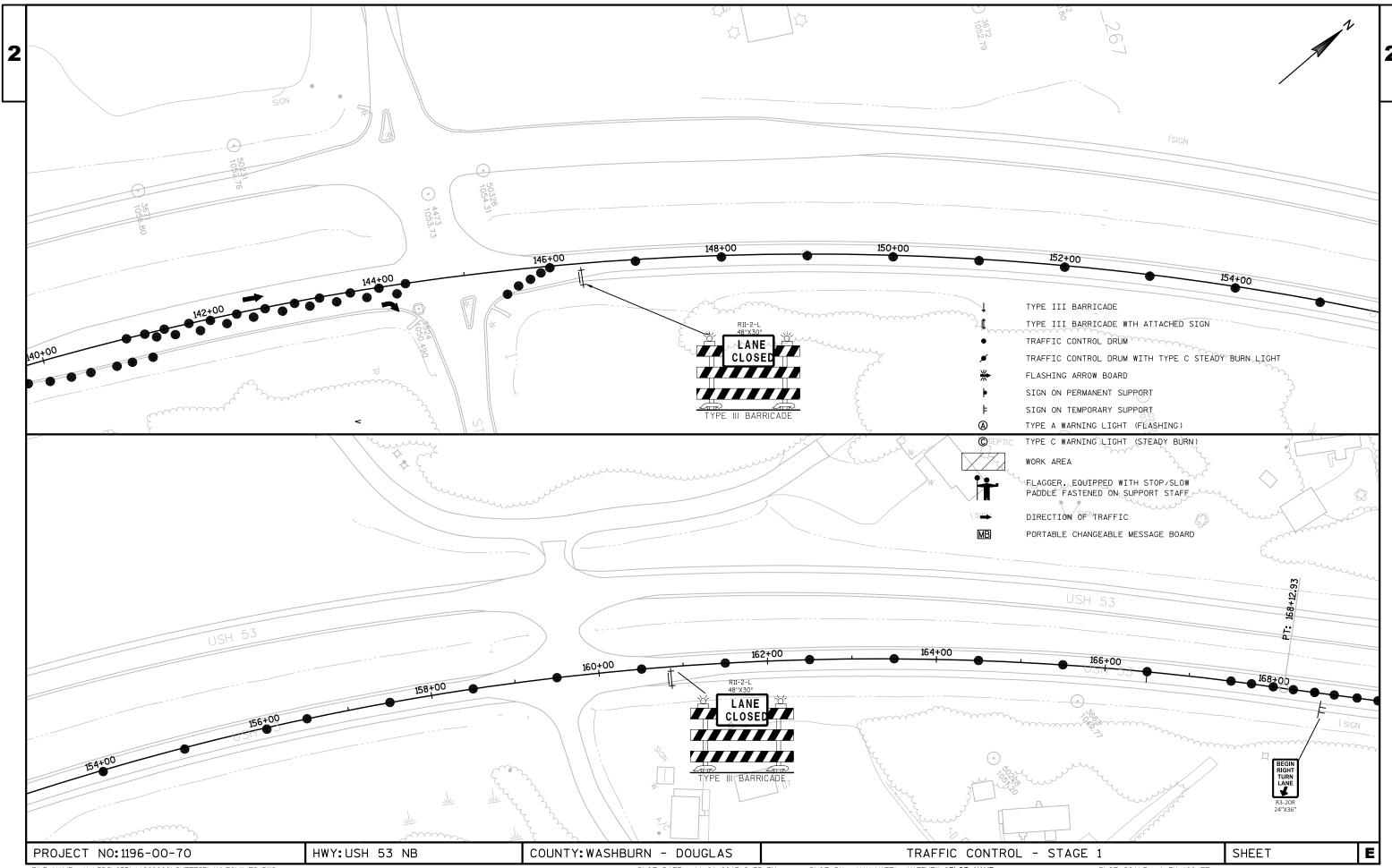


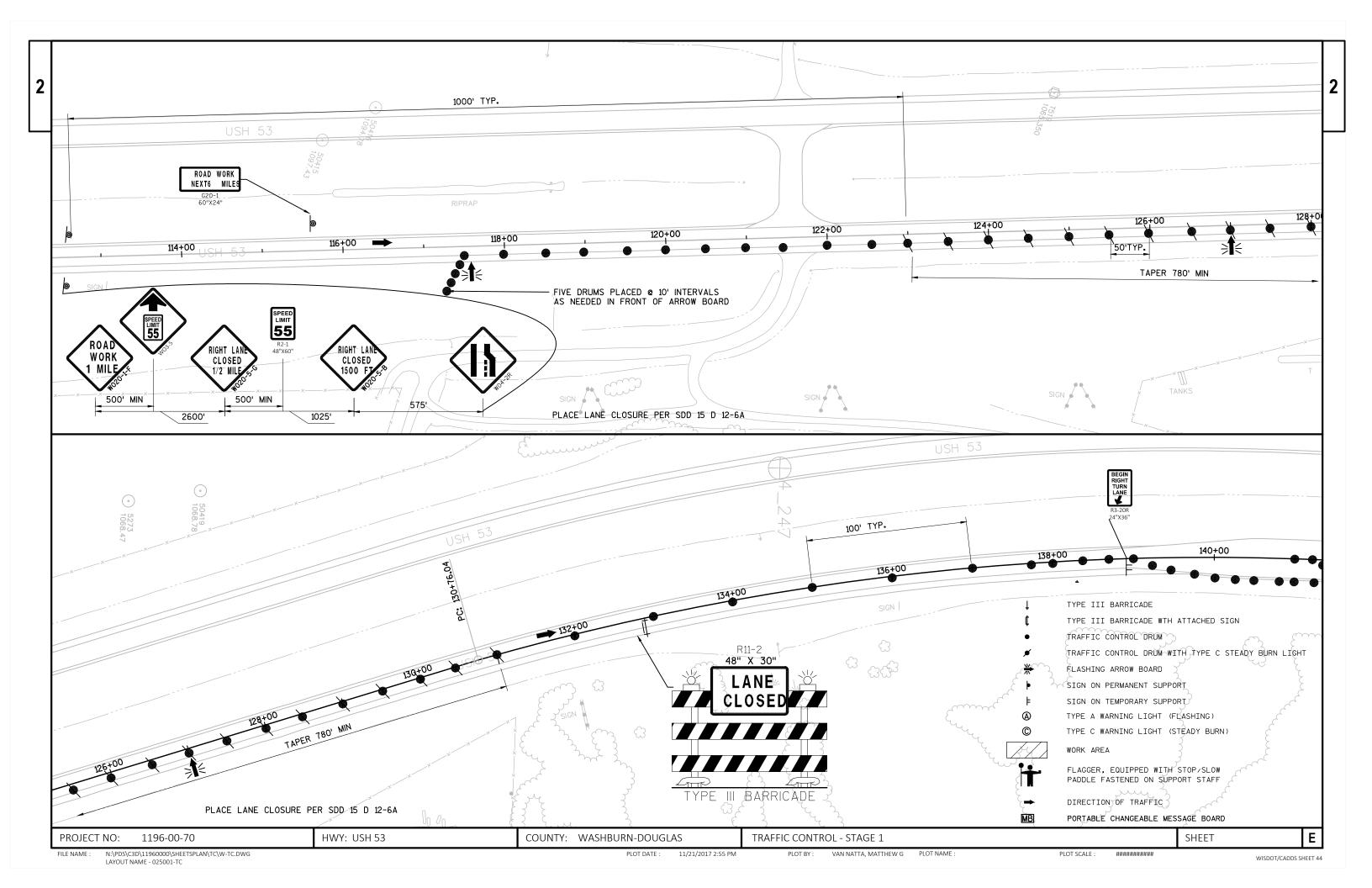


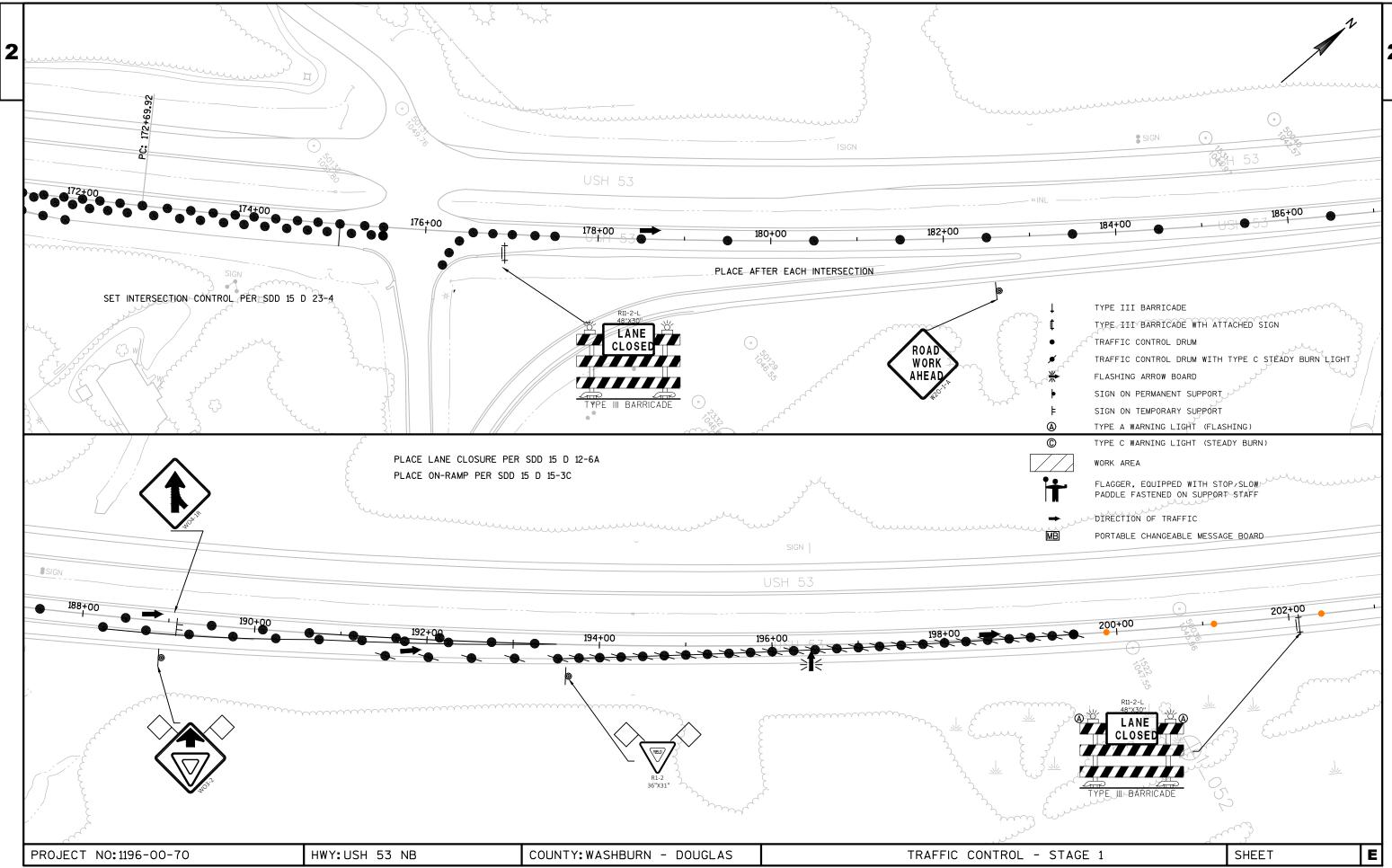


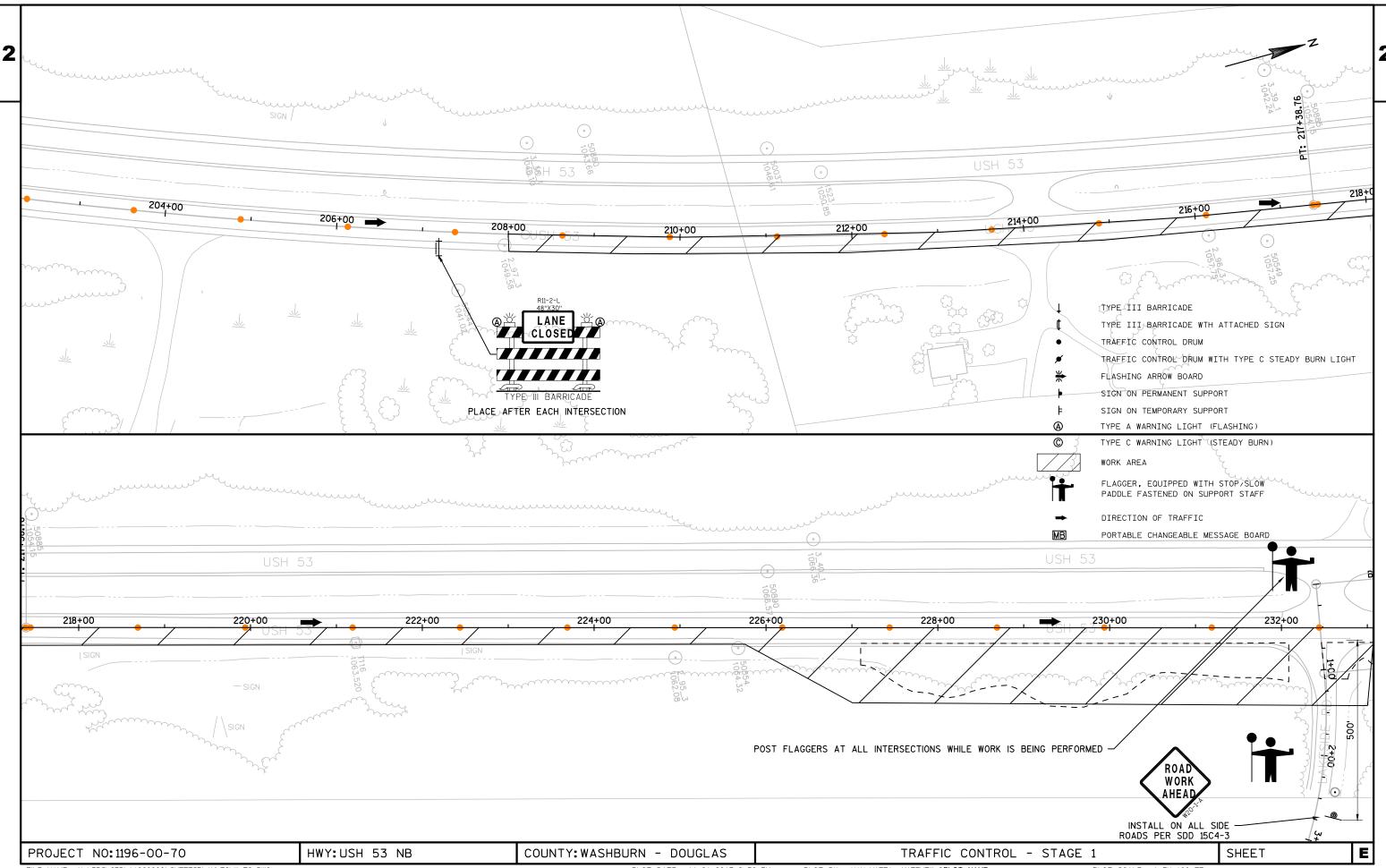


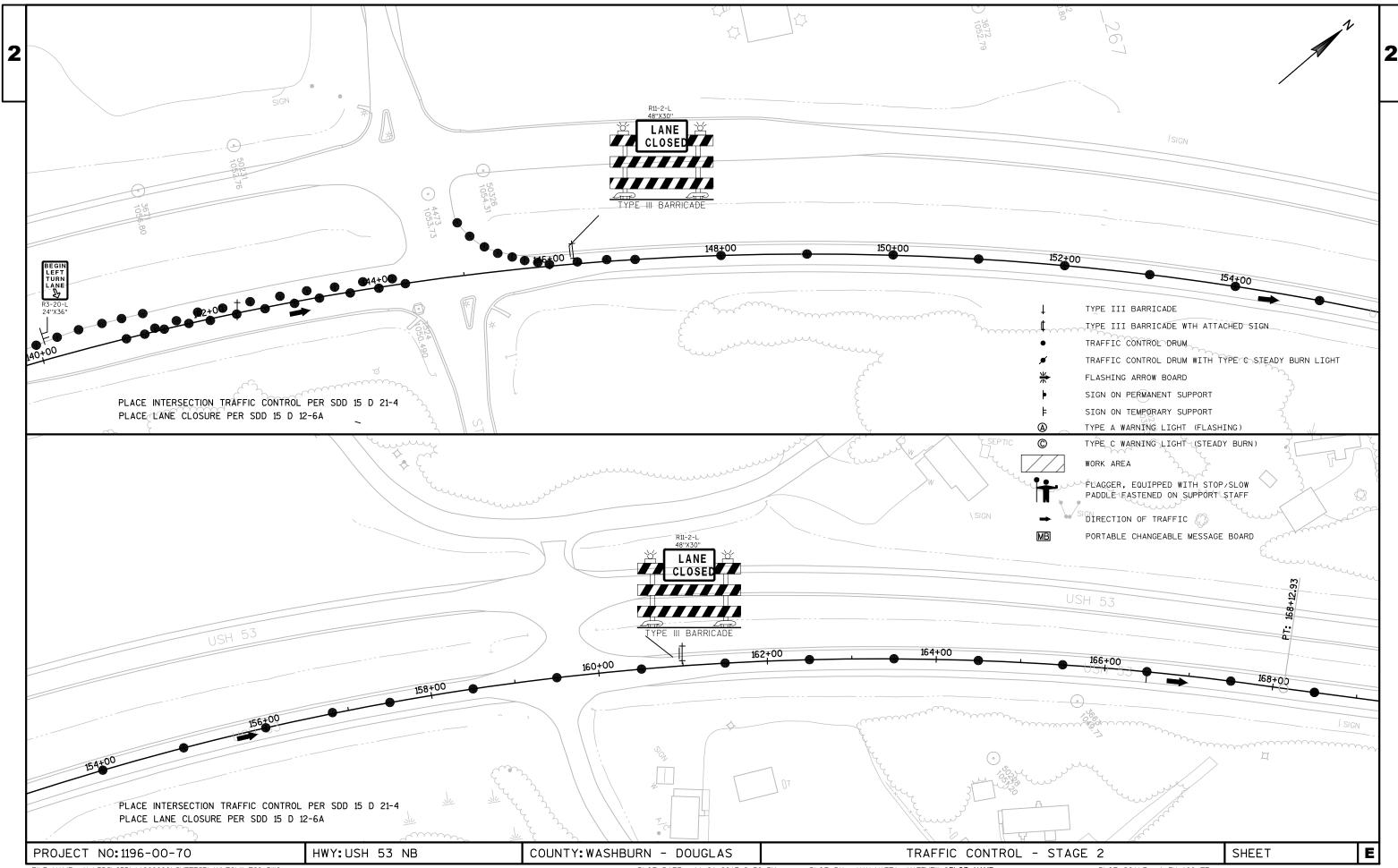


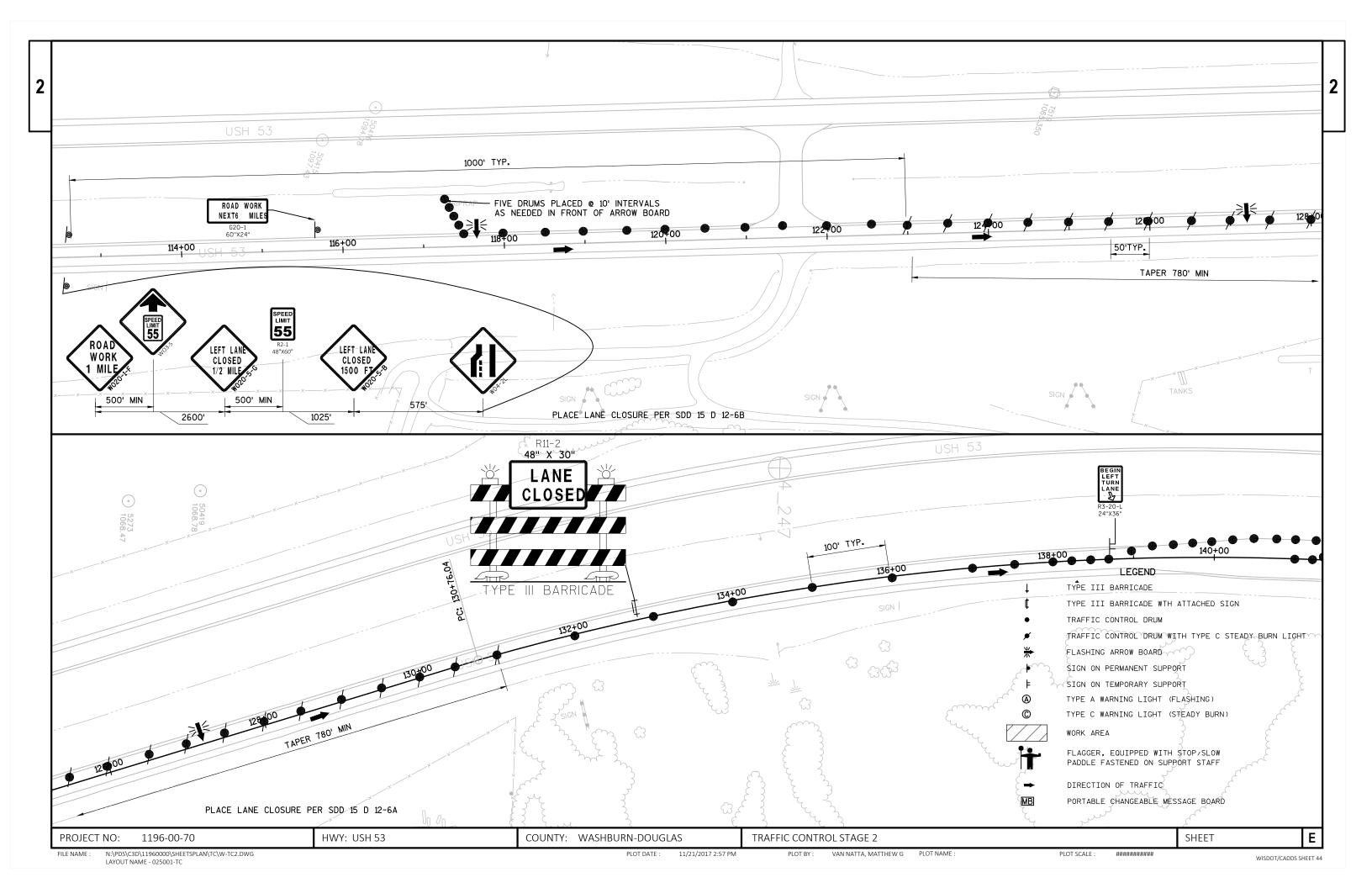


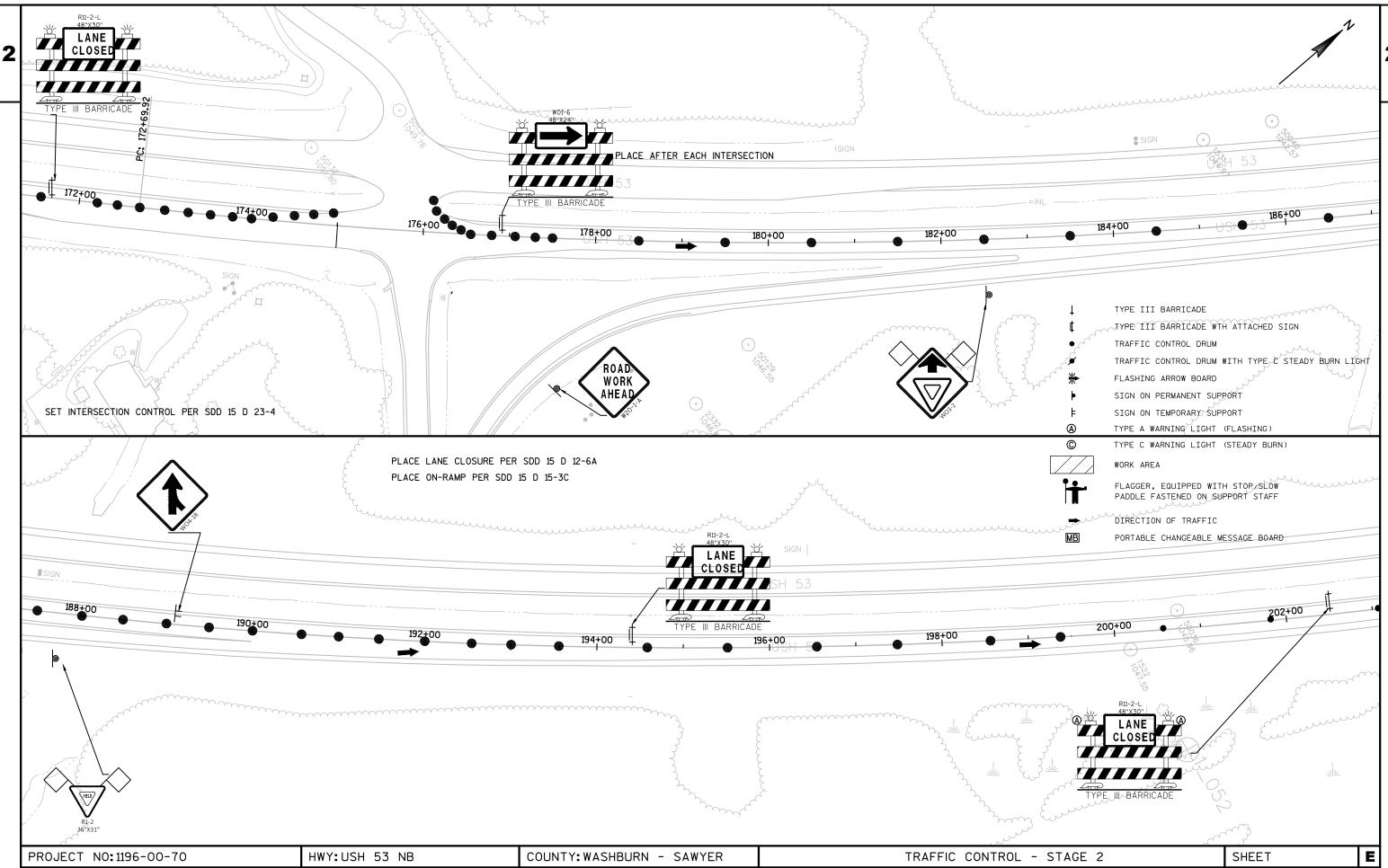


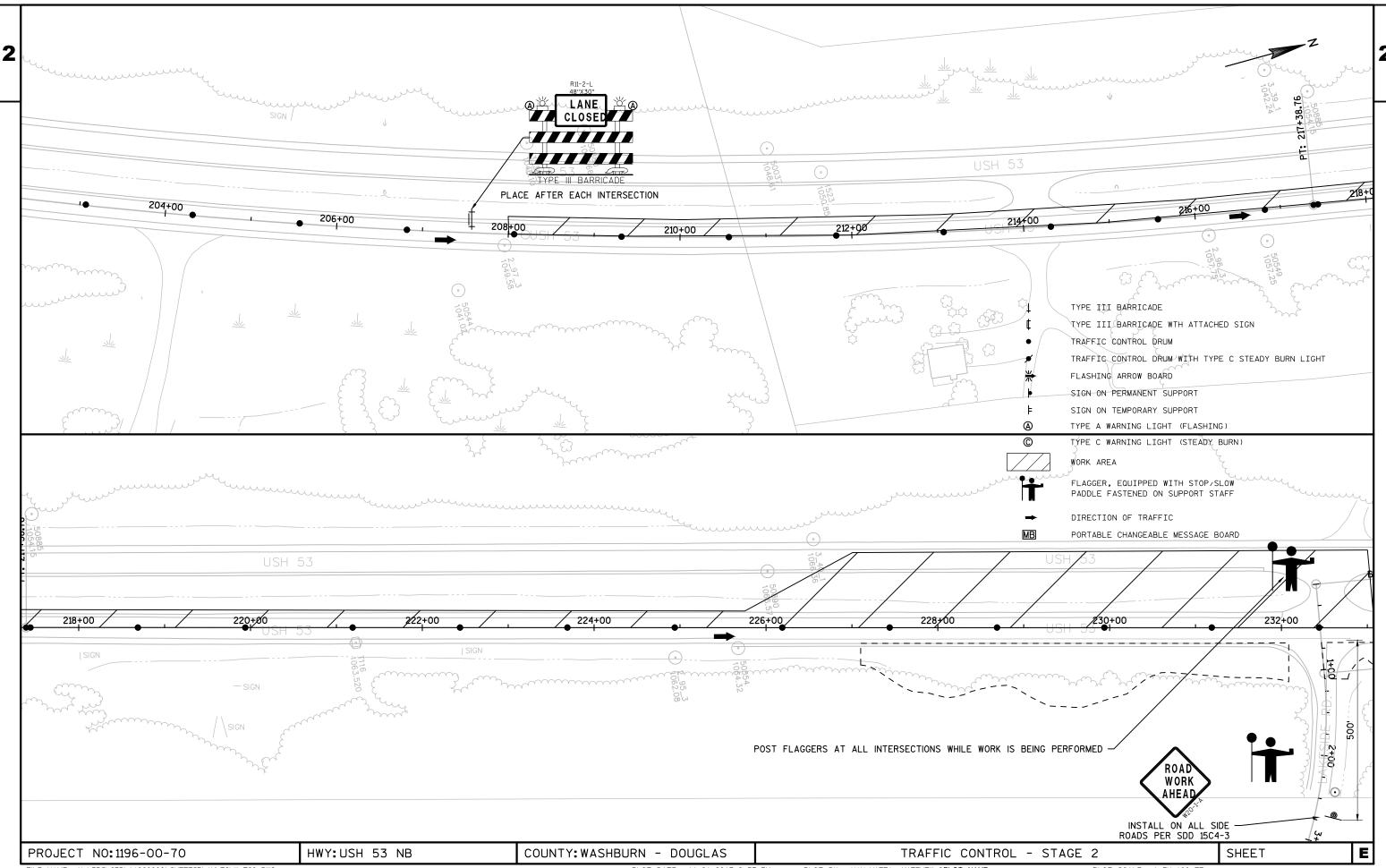


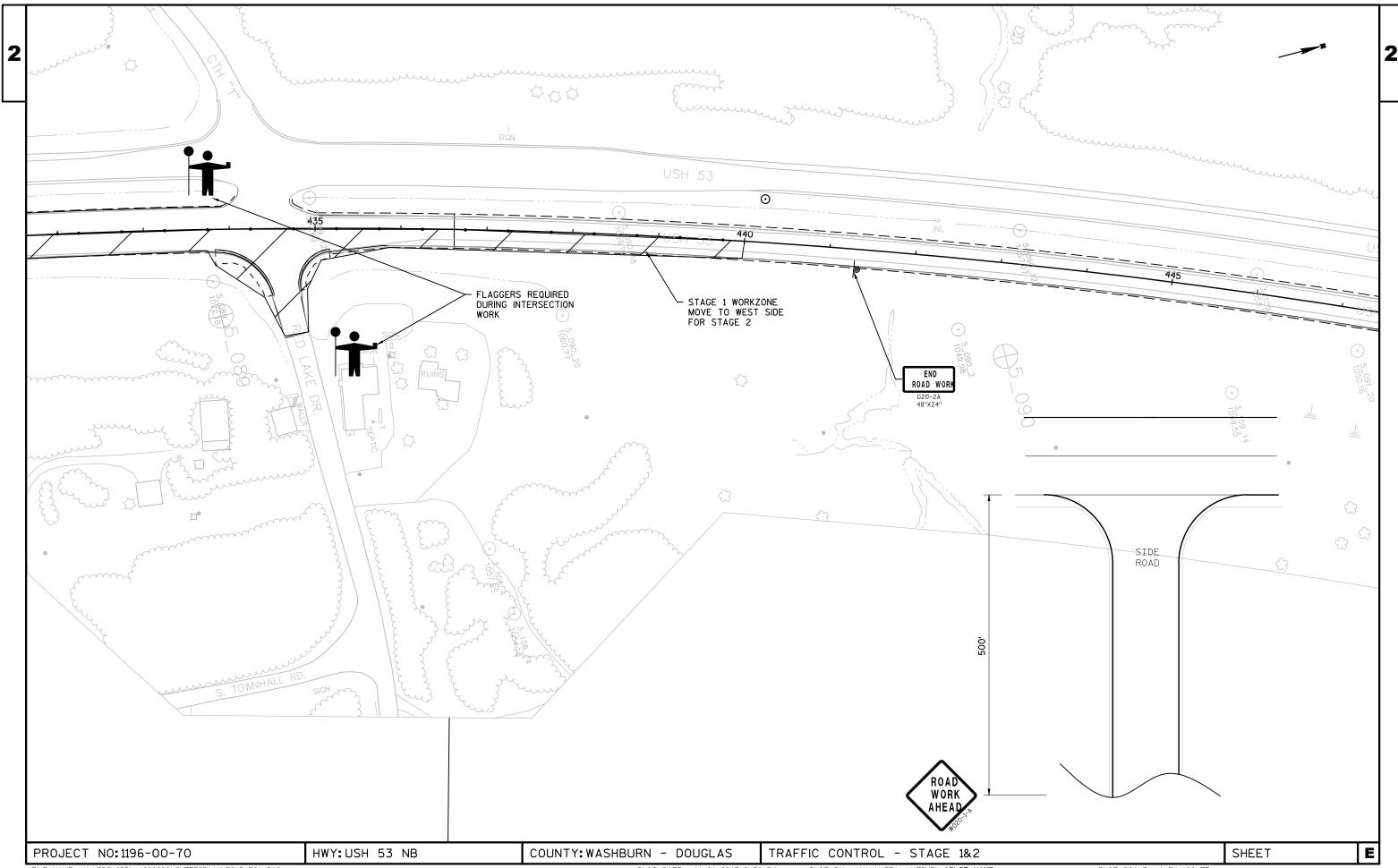












					4400.00.7
					1196-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	204.0105	Removing Pavement Butt Joints	SY	150.000	150.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	209.000	209.000
0006	204.0120	Removing Asphaltic Surface Milling	SY	83,720.000	83,720.000
8000	204.0150	Removing Curb & Gutter	LF	160.000	160.000
0010	204.0165	Removing Guardrail	LF	332.000	332.000
0012	205.9015.S		LS	1.000	1.000
0014	205.9015.S	Grading Shaping and Finishing Intersection (location) 02. Lakeside North	LS	1.000	1.000
0016	205.9015.S	Grading Shaping and Finishing Intersection (location) 03. Lakeside Middle	LS	1.000	1.000
0018	205.9015.S	Grading Shaping and Finishing Intersection (location) 04. Lakeside South	LS	1.000	1.000
0020	205.9015.S	Grading Shaping and Finishing Intersection (location) 05. Red Lake Dr.	LS	1.000	1.000
0022	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 1196-00-70	LS	1.000	1.000
0024	213.0100	Finishing Roadway (project) 01. 1196-00-70	EACH	1.000	1.000
0026	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,005.000	1,005.000
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,232.000	1,232.000
0030	305.0500	Shaping Shoulders	STA	229.000	229.000
0032	440.4410	Incentive IRI Ride	DOL	18,236.000	18,236.000
0034	455.0605	Tack Coat	GAL	4,110.000	4,110.000
0036	460.0100.S		EACH	1.000	1.000
0038	460.2000	Incentive Density HMA Pavement	DOL	1,018.000	1,018.000
0040	460.4110.S	•	LF	26,487.000	26,487.000
0042	460.5224	HMA Pavement 4 LT 58-28 S	TON	2,822.000	2,822.000
0044	460.6244	HMA Pavement 4 MT 58-34 S	TON	5,997.000	5,997.000
0046	460.8444	HMA Pavement 4 SMA 58-34 H	TON	6,594.000	6,594.000
0048	465.0105	Asphaltic Surface	TON	737.000	737.000
0050	465.0110	Asphaltic Surface Patching	TON	50.000	50.000
0052	465.0400	Asphaltic Shoulder Rumble Strips	LF	40,620.000	40,620.000
0054	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	2.000	2.000
0056	520.8700	Cleaning Culvert Pipes	EACH	3.000	3.000
0058	521.1618	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 10 to 1	EACH	4.000	4.000
0060	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	52.000	52.000
0062	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	160.000	160.000
0064	614.0010	Barrier System Grading Shaping Finishing	EACH	2.000	2.000
0066	614.2300	MGS Guardrail 3	LF	320.000	320.000
0068	614.2500	MGS Thrie Beam Transition	LF	78.000	78.000
			_	. 0.000	. 0.000

timate Of Quantities	Page

					1196-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0070	614.2610	MGS Guardrail Terminal EAT	EACH	2.000	2.000	
0072	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1196-00-70	EACH	1.000	1.000	
0074	619.1000	Mobilization	EACH	1.000	1.000	
0076	624.0100	Water	MGAL	45.000	45.000	
0078	625.0500	Salvaged Topsoil	SY	200.000	200.000	
0800	627.0200	Mulching	SY	200.000	200.000	
0082	628.1504	Silt Fence	LF	727.000	727.000	
0084	628.1520	Silt Fence Maintenance	LF	325.000	325.000	
086	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
8800	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000	
0090	629.0210	Fertilizer Type B	CWT	0.200	0.200	
0092	630.0110	Seeding Mixture No. 10	LB	10.000	10.000	
0094	630.0200	Seeding Temporary	LB	10.000	10.000	
0096	633.5200	Markers Culvert End	EACH	12.000	12.000	
0098	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	56.000	56.000	
100	637.2210	Signs Type II Reflective H	SF	364.000	364.000	
102	637.2230	Signs Type II Reflective F	SF	104.000	104.000	
0104	638.2602	Removing Signs Type II	EACH	69.000	69.000	
106	638.3000	Removing Small Sign Supports	EACH	68.000	68.000	
108	642.5201	Field Office Type C	EACH	1.000	1.000	
)110	643.0300	Traffic Control Drums	DAY	25,344.000	25,344.000	
)112	643.0420	Traffic Control Barricades Type III	DAY	1,270.000	1,270.000	
114	643.0705	Traffic Control Warning Lights Type A	DAY	2,540.000	2,540.000	
116	643.0715	Traffic Control Warning Lights Type C	DAY	2,720.000	2,720.000	
118	643.0800	Traffic Control Arrow Boards	DAY	160.000	160.000	
120	643.0900	Traffic Control Signs	DAY	3,805.000	3,805.000	
122	643.1050	Traffic Control Signs PCMS	DAY	35.000	35.000	
124	643.5000	Traffic Control	EACH	1.000	1.000	
126	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	52,014.000	52,014.000	
128	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	2,800.000	2,800.000	
130	646.6120	Marking Stop Line Epoxy 18-Inch	LF	128.000	128.000	
132	649.0105	Temporary Marking Line Paint 4-Inch	LF	5,711.000	5,711.000	
134	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	2,000.000	2,000.000	
136	650.5000	Construction Staking Base	LF	2,450.000	2,450.000	
138	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	160.000	160.000	
140	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000	
)142	650.8000	Construction Staking Resurfacing Reference	LF	22,842.000	22,842.000	
)144	650.9910	Construction Staking Supplemental Control (project) 01. 1196-00-70	LS	1.000	1.000	

Special

Estimate Of Quantities Page 3

					1196-00-70
Line	Item	Item Description	Unit	Total	Qty
0146	690.0150	Sawing Asphalt	LF	583.000	583.000
0148	690.0250	Sawing Concrete	LF	26.000	26.000
0150	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,000.000	2,000.000
0152	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	630.000	630.000
0154	SPV.0090	Special 01. Concrete Curb and Gutter Cure and Seal Treatment	LF	160.000	160.000
0156	SPV.0105	Special 01. Material Transfer Vehicle	LS	1.000	1.000
0158	SPV.0105	Special 02. Milling and Removing Temporary Joint	LS	1.000	1.000

REMOVING ASPHALTIC SURFACE BUTT JOINTS

			204. 0115	
CAT.	STATI ON	LOC	SY	REMARKS
0010	232+50	RT	62	LAKESI DE SOUTH
0010	249+75	RT	67	LAKESI DE MIDDLE
0010	434+75	RT	80	RED LK DRIVE

TOTAL 00 209

REMOVING ASPHALTIC SURFACE MILLING

-				204. 0120		
CAT.	STATI ON	TO	STATI ON	LOC	SY	REMARKS
0010	208+20	-	417+50	RT<	83720	PROJECT

83720 TOTAL 0010

REMARKS RED LK DRIVE

T0TAL 0010 160 REMOVING GUARDRAIL

						204. 0165	
	CAT	STATI ON	T0	STATI ON	LOC	LF	REMARKS
Ī	0010	312+92	_	315+00	LT&RT	332	BRIDGE APPROACH NB

T0TAL 0010 332 SHAPING SHOULDERS

					305.0500	
CAT.	STATI ON	T0	STATI ON	LOC	STA	REMARKS
0010	208+20	-	436+62	RT<	229	PROJECT

TOTAL 00 229

			GRADING, S	SHAPING AND	FINISHING	INTERSECT	ION SUMMAR	RY		
		205. 9015. S. 01	205. 0100	208. 1100	625. 0500	627. 0200	629. 0110	629. 0210	630. 0200	
		GRADE, SHAPE	COMMON	SELECT	SALVAGED		SEED MIX	FERTI LI ZER	SEED	QUANTI TI ES
		AND FINISH	EXCAVATI ON	BORROW	TOPSOI L	MULCH	NO. 10	TYPE B	TEMPORARY	FOR INFORMATION
		I NTERSECTI ON								ONLY
CAT. TO STATION	LOC	LS	CY	CY	SY	SY	LB	CWT	LB	REMARKS
0010 - 233+60	RT	1	125	2005	2352	2352	34	1	34	LAKESI DE SOUTH
0010 - 260+00	LT	1	123	235	588	588	10	0. 5	10	LAKESIDE MID LT
0010 - 260+00	RT	0	132	393	1208	1208	19	1	19	LAKDSIDE MID RT
0010 - 296+50	LT	1	92	383	818	818	13	1	13	LAKESI DE NORTH
0010 - 364+50	LT	1	70	86	869	869	14	1	14	SCHOOL TURN
0010 - 436+50	LT&RT	1	5	70	587	587	10	0. 5	10	RED LAKE DRIVE
_										_
TOTAL 0010)	5	547	3172	6422	6422	100	5	100	

	BASE AGGREGATE DENSE												
					305. 0110	305. 012	624. 0100						
					BASE	AGG.	WATER						
					DENSE	DENSE							
					3/4-I NCH	1 1/4-I NCH							
CAT	STATI ON	T0	STATI ON	LOC	TON	TON	MGAL	REMARKS					
0010	208+20	-	436+62	LT&RT	1005		45	FINISH SHOULDER					
0010	227+10	-	233+53	RT		265		TRN LN BASE					
0010	243+62	-	250+90	LT&RT		502		TRN LN BASE					
0010	290+44	-	296+50	LT		315		TRN LN BASE					
0010	358+41	-	361+00	LT		150		TRN LN BASE					
								_					
TOTAL 0010				0	1005	1232	45	•					

SHEET: Ε PROJECT NO: HWY: COUNTY: MISCELLANEOUS QUANTITIES 1196-00-70 USH 53 NB WASHBURN - DOUGLAS

	HMA PAVEMENT SUMMARY									
					455. 0605	460. 0100. S	465. 0110	465. 0105		
						HMA	ASPHALTI C	ASPHALTI C		
					TACK	PAVEMENT	SURFACE	SURFACE		
					COAT	TEST STRIP	PATCHI NG			
CAT.	STATI ON	T0	STATI ON	LOC	GALLON	EACH	TON	TON		
0010	208+20	-	436+62		4110	1				
0010	232+50	+/-						19		
0010	296+50	+/-						11		
0010	305+00	+/-						15		
0010	322+00	+/-						14		
0010	336+00	+/-						13		
0010	344+00	+/-						16		
0010	365+00	+/-						105		
0010	434+50	+/-						44		
0010	LEVELI NO	AND WE	EDGI NG					500		
0010	PREP OF	FOUNDAT	ΓI ON				50			
			TOTAL 0010)	4110		50	737		

MAINLINE HMA SUMMARY											
				460. 5224	460. 6244	460. 7444					
				4 LT 58-28 S	4 MT 58-34 S	4 SMA 58-34 H					
CAT.	STA.	LOCATI ON	REMARKS		TON						
0010	208+20 - 243+60	NB USH 53	MAINLINE ONLY	0	770	1027					
0010	243+60 - 315+00	NB USH 53	MAINLINE ONLY	0	1553	2071					
0010	317+65 - 358+40	NB USH 53	MAINLINE ONLY	0	886	1182					
0010	358+40 - 417+50	NB USH 53	MAINLINE ONLY	0	1285	1714					
0010	417+50 - 436+62	NB USH 53	MAINLINE ONLY	0	451	601					
0010	208+20 - 227+20	NB USH 53	SHOULDERS ONLY	276	0	C					
0010	227+50 - 233+55	LAKESIDE 1 RT TN LN	RIGHT TURN LANE	0	153	C					
0010	233+55 - 243+60	NB USH 53	SHOULDERS ONLY	146	0	C					
0010	243+60 - 250+87	LAKESIDE 2 RT/LT TN LN	LEFT/RI GHT TURN LANE	0	329	C					
0010	250+87 - 290+40	NB USH 53	SHOULDERS ONLY	573	0	C					
0010	290+40 - 296+30	LAKESIDE 3 LT TN LN	LEFT TURN LANE	0	119	C					
0010	296+30 - 315+00	NB USH 53	SHOULDERS ONLY (S OF BR)	278	0	C					
0010	317+65 - 319+50	NB USH 53	SHOULDERS ONLY (N OF BR)	34	0	C					
0010	319+50 - 358+40	NB USH 53	SHOULDERS ONLY	564	0	C					
0010	358+40 - 365+75	NORTHWDS SCH LT TN LN	LEFT TURN LANE	0	139	C					
0010	365+75 - 370+70	NB USH 53	SHOULDERS ONLY (CTY LINE)	72	0	C					
0010	370+70 - 417+50	NB USH 53	SHOULDERS ONLY (CTY LINE)	679	0	(
0010	417+50 - 428+87	NB USH 53	CONC PAVT SEC SHOULDER ONLY	201	0	(
0010	428+87 - 436+62	RED LK/CTH T TN LN	LEFT/RIGHT TURN LANE	0	311	(
			TOTAL	2822	5997	6594					

PROJECT NO: 1196-00-70 HWY: USH 53 NB COUNTY: WASHBURN - DOUGLAS MISCELLANEOUS QUANTITIES SHEET: E

INCENTIVE IRI RIDE	-
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					440. 4410	
CAT.	STATI ON	T0	STATI ON	LOC	DOL	REMARKS
0010	208+20	-	436+62	-	18236	PROJECT

TOTAL 00 18236

ASPHALTIC SHOULDER RUMBLE STRIPS

					465. 0400	
CAT	STATI ON	TO	STATI ON	LOC	LF	REMARKS
0010	208+20	-	436+62	LT	20069	SHOULDER
0010	208+20	-	436+62	RT	20551	RUMBLES

TOTAL 0010 40620

INCENTIVE DENSITY HMA PAVEMENT

					460. 2000	
CAT.	STATI ON	TO	STATI ON	LOC	DOL	REMARKS
0010	208+20	_	436+62		1018	PROJECT

TOTAL 0010 1018

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

					460. 4110. S	
CAT.	STATI ON	T0	STATI ON	LOC	LF	REMARKS
0010	208+20	-	436+62		22842	TOP MAINLINE
0010	227+00	-	232+00	RT	475	TURN LKSIDE S
0010	243+75	-	249+25	LT&RT	1160	TURN LKSIDE MID
0010	290+50	-	296+00	LT	580	TURN LKSIDE NORTH
0010	358+50	-	364+00	LT	550	SCH00L
0010	429+45	-	434+00	LT&RT	880	RED LAKE
						_

TOTAL 0010 26487

T0TAL 0010

	CULVERT PIPE SUMMARY										
	521. 1618	521. 3118	520. 8700	520. 1018							
	AEW			AEW							
	SLOPED SIDE DRAIN	CPCS	CLEANI NG	CULVERT							
	STEEL 18-I NCH		CULVERT	PI PE							
	10: 1	18-I NCH	PI PE	18-I NCH							
REMARK	EACH	LF	EACH	EACH	LOC	N TO STATION	STATI ON	CAT.			
LKSIDE MID		52		2	RT	2 - 250+13	249+62	0010			
MEDIAN PIP	2				LT	250+00		0010			
MEDIAN PIP	2				LT	296+50		0010			
CROSS PIPE			1		RT	306+62		0010			
CROSS PIPE			1		RT	362+75		0010			
CROSS PIPE			1		RT	409+16		0010			
=	4	52	3	2	, ;	TOTAL 0010					

CONCRETE	SUMMARY		
	601.0557	SPV. 0090. 01	
	C&G 6-IN	CONCRETE	
	SLOPED 36-IN	C&G CURE	
	TYPE D	AND SEAL	
CAT. STATION TO STATION LOC	LF	LF	REMARKS
0010 433+83 - 435+16 RT	160	160	RED LK DRIVE

160

160

BARRIER SYSTEM GRADING SHAPING FINISHING											
614. 0010						614. 2300	614. 2500	614. 2610			
					BARRI E	R SYS		MGS			
				GRADE,	SHAPE	GUARDRAI L	THRIE BEAM				
					FIN	I SH	3	TRANSI TI ON	EAT		
CAT.	STATI ON	T0	STATI ON	LOC	EA	CH	LF	LF	EACH		
0010	312+14	-	314+98	LT&RT	2	<u>)</u>	320	78	2		
TOTAL 0010					2	320	78	2			

PROJECT NO: 1196-00-70 HWY: USH 53 NB COUNTY: WASHBURN - DOUGLAS MISCELLANEOUS QUANTITIES SHEET: E

0010 26 321+00 LT

0010 27 321+80 RT

0010 28 343+20 RT 0010 29 353+90

0010 30 361+25 LT 0010 31 363+00 LT 0010 32 363+75 LT

0010 33 365+00 RT

0010 34 370+70 RT

SUB TOTAL

RT

RT

39

1196-00-70

0010 27

0010 27

0010 29

0010 29

PROJECT NO:

	634. 0616				637. 2210	637. 2230	
	POSTS WOOD				SI GNS	ΓΥΡΕ ΙΙ	
	4X6-I NCH				REFLE	CTI VE	
	16-F00T				TYPE H	TYPE F	
)C	EACH	CODE	SI ZE	MESSAGE	SF	SF	REMARKS
Т	2	R2-1	48X60	SPEED LIMIT 65	20.00		

4X6-I NCH					REFLE					
				16-F00T				TYPE H	TYPE F	
CAT.	NO	STATI ON	LOC	EACH	CODE	SI ZE	MESSAGE	SF	SF	REMARKS
0010	6	208+50	RT	2	R2-1	48X60	SPEED LIMIT 65	20. 00		
0010	7	217+50	RT	2	S3-51	96X48	SCHOOL BUS TRAFFIC		32.00	
0010	8	222+50	RT	2	M1-94	84X21	LAKESI DE ROAD	12. 25		
0010	9	229+50	LT	1	R5-1A	42X30	WRONG WAY	8. 75		
0010	10	231+50	LT	1	R5-1A	36X36	DO NOT ENTER	9. 00		
0010	11	233+00	RT	1	R6-1-R	36X12	ONE WAY	3. 00		

WASHBURN COUNTY SIGNING SUMMARY

0010	6	208+50	ΚI	2	R2-1	48860	SPEED LIMIT 65	20.00	
0010	7	217+50	RT	2	S3-51	96X48	SCHOOL BUS TRAFFIC		32.00
0010	8	222+50	RT	2	M1-94	84X21	LAKESI DE ROAD	12. 25	
0010	9	229+50	LT	1	R5-1A	42X30	WRONG WAY	8. 75	
0010	10	231+50	LT	1	R5-1A	36X36	DO NOT ENTER	9. 00	
0010	11	233+00	RT	1	R6-1-R	36X12	ONE WAY	3. 00	
0010	11	п	RT	-	R1-1	36X36	ST0P	7. 46	
0010	11	II	RT	-	R6-3-A	30X24	DI VI DED HI GHWAY	5. 00	
0010	12	235+10	RT	1	R59-51	48X48	STOP SCHOOL BUS FLSH	16.00	
0010	13	238+10	RT	2	D1-2	72X24	TOTAGATIC SKI TRL	12.00	
0010	14	239+75	RT	1	D10-3	12X48	MI LE 188	4. 00	
0010	15	241+50	RT	2	M1-94	84X21	LAKESI DE ROAD	12. 25	
0010	16	245+50	LT	1	R5-A1	42X30	WRONG WAY	8. 75	
0010	17	248+50	LT	1	R5-1A	36X36	DO NOT ENTER	9. 00	

0010	15	241+50	RT	2	M1-94	84X21	LAKESI DE ROAD	12. 25	
0010	16	245+50	LT	1	R5-A1	42X30	WRONG WAY	8. 75	
0010	17	248+50	LT	1	R5-1A	36X36	DO NOT ENTER	9.00	
0010	18	250+10	RT	1	R6-1-R	36X12	ONE WAY	3.00	
0010	18	"	RT		R1-1	36X36	ST0P	7. 46	
0010	18	"	RT		R6-3-A	30X24	DI VI DED HI GHWAY	5.00	
0010	19	286+25	RT	2	M1-94	84X21	LAKESI DE ROAD	12. 25	
0010	20	291+50	RT	2	D10-3	12X48	MILE 189	4. 00	
0010	21	296+75	RT	1	R6-2-L	36X48	ONE WAY	12.00	
0010	22	315+00	RT	1	W5-52R	18X54	STRI PES		6. 75
0010	23	315+00	RT	2	I 3-1	108X21	TOTAGATIC RIVER	15. 75	
0010	24	315+00	LT	1	W5-52R	18X54	STRI PES		6. 75
0010	25	319+00	LT	1	R5-1A	42X30	WRONG WAY	8. 75	

R5-1A 36X36

R6-1-R 36X12

R1-1 36X36

R6-2-L 36X48

I 2-2 84X21

HWY:

R6-3-A	30X24	DI VI DED HI GHWAY	5. 00	
D10-3	12X48	MI LE 190	4.00	
S1-1	48x24	PEDESTRI ANS		6. 75
S16-9P	48x24	AHEAD		3. 75
R2-6P	36X24	FINES HIGHER	6. 00	
R5-1A	42X30	WRONG WAY	8. 75	
R5-1A	36X36	DO NOT ENTER	9. 00	
R1-1	36X36	ST0P	7. 46	

ONE WAY

DOUGLAS COUNTY

USH 53 NB

DO NOT ENTER

ONE WAY

ST0P

9.00

3.00

7.46

12.00

12. 25

279.59

56.00

COUNTY:	WASHBURN - DOUGLAS

634.0616 POSTS WOOD

4X6-I NCH

16-F00T

EACH

1

1

3

2

2

1

17

RT

RT

RT

RT

RT

CODE SIZE

155-56 30X36

W6-53 144x48

D10-3 12X48

M1-94 84x15

R5-1A 42X30

R5-1A 36X36

R1-2 36X31

J12-1 36X66

R6-1-R 36X12

R6-3-A 30X24

J4-1 36x54

R1-1

36x57

36X36

12-3

J1-1

M2 - 1

M1-5A

CAT. NO STATION LOC

0010 35 372+40 RT

0010 36 381+00 RT

0010 37 388+50

0010 38 397+00

0010 39 417+00

0010

0010

0010

0010

0010 40 419+25 RT

0010 41 424+50 RT

0010 42 431+50 LT

0010 43 433+25 LT

0010 44 433+75 LT

0010 47 437+50 RT

SUB TOTAL

TOTAL 0010

0010 45 433+25

0010 46 435+00

DOUGLAS COUNTY SIGNING SUMMARY

MESSAGE

ADOPT A HIGHWAY

CROSS TRAFFIC NEXT 32

MI LES

MILE 191

RED LAKE DR

JCT CTH T

WRONG WAY

DO NOT ENTER

YI ELD

CTH T RT ARROW

ONE WAY

ST0P

DI VI DED HI GHWAY

USH 53 NORTH

54X24 WASCOTT UNI CORPORATED

SHEET:

637. 2210 637. 2230

SIGNS TYPE II

REFLECTI VE

TYPE F

SF

48.00

48

104

TYPE H

SF

4.00

9.00

5.00

6.50

8. 75

9.00

3.88

16.50

3.00

7.46

5.00

6.00

84

364

PLOT DATE: June 14, 1911 PLOT BY: A.R.H. FILE NAME: N:\PDS\...\030200_mq.pptx PLOT NAME: PLOT SCALE: 1:1

REMARKS

REPLACE POST ONLY

RECREATION CLUB

FOUR SEASON

WASCOTT

Ε

		RE	MOVING SIG	NS TYPE II	
			638. 2602	638. 3000	
			REMO	IVI NG	
			SIGNS	SMALL SIGN	
			TYPE II	SUPPORTS	
CAT.	STATI ON	LOC	EACH	EACH	REMARKS
0010	208+50	RT	1	1	65 MPH
0010	211+00	LT	1	1	WRONG WAY
0010	203+00	LT	1	1	DO NOT ENTER
0010	217+50	RT	1	2	SCHOOL BUS TRAFFI
0010	222+50	RT	1	2	LAKESI DE RD
0010	229+50	RT	1	1	WRONG WAY
0010	231+50	RT	1	1	DO NOT ENTER
0010	233+00	RT	1	1	ST0P
0010	233+00	RT	1	0	DIVIDED HWY
0010	233+10	RT	1	1	ONE WAY
0010	233+10	RT	1	0	ONE WAY
0010	235+20	RT	1	1	STOP SCHOOL BUS
0010	238+10	RT	1	2	TOTAGATIC SKI
0010	239+75	RT	1	1	MILE 188
0010	241+50	RT	1	2	LAKESI DE RD
0010	246+75	LT	1	1	WRONG WAY
0010	248+50	LT	1	1	DO NOT ENTER
0010	250+10	RT	1	1	ST0P
0010	250+10	RT	1	0	DIVIDED HWY
0010	250+20	RT	1	1	ONE WAY
0010	250+20	RT	1	0	ONE WAY
0010	286+50	RT	1	2	LAKESI DE RD
0010	291+50	RT	1	1	MILE 189
0010	293+50	LT	1	1	WRONG WAY
0010	295+50	LT	1	1	DO NOT ENTER
0010	296+90	LT	1	1	ONE WAY
0010	302+75	LT	1	1	WRONG WAY
0010	304+50	LT	1	1	DO NOT ENTER
0010	315+00	RT	1	1	STRI PES
0010	315+00	RT	1	1	TOTAGATIC RIVER
0010	315+00	LT	1	1	STRI PES
0010	319+00	LT	1	1	WRONG WAY
0010	321+00	LT	1	1	DO NOT ENTER
0010	333+50	LT	1	1	WRONG WAY
0010	335+00	LT	1	1	DO NOT ENTER
0010	341+00	LT	1	1	WRONG WAY
	SUB-TOTAL		36	37	

REMOVING SIGNS TYPE II								
	638. 3000							
	OVI NG							
	SMALL SIGN	SI GNS						
	SUPPORTS	TYPE II						
REMARKS	EACH	EACH	LOC	STATI ON	CAT.			
DO NOT ENTER	1	1	LT	343+00	0010			
MI LE 190	1	1	RT	343+10	0010			
S1-1	1	1	RT	353+75	0010			
AHEAD	0	1	RT	353+75	0010			
WRONG WAY	1	1	LT	361+25	0010			
DO NOT ENTER	1	1	LT	363+25	0010			
ST0P	1	1	LT	363+75	0010			
ONE WAY	1	1	RT	365+00	0010			
DOUGLAS CO.	2	1	RT	370+70	0010			
ADOPT A HWY	1	1	RT	372+25	0010			
WRONG WAY	1	1	LT	373+90	0010			
DO NOT ENTER	1	1	LT	375+50	0010			
SPEED WAVE	1	0	RT	381+00	0010			
WRONG WAY	1	1	LT	383+75	0010			
DO NOT ENTER	1	1	LT	385+50	0010			
CROSS TRAFFIC	2	1	RT	388+50	0010			
MI LE 191	1	1	RT	397+00	0010			
WASCOTT UNIC.	2	1	RT	417+00	0010			
RED LK DRIVE	1	1	RT	419+25	0010			
JCT	1	1	RT	424+50	0010			
CTH T	0	1	RT	424+50	0010			
LEFT TURN LANE	1	1	LT	430+25	0010			
RIGHT TURN LANE	1	1	RT	430+25	0010			
WRONG WAY	1	1	LT	431+60	0010			
DO NOT ENTER	1	1	LT	433+25	0010			
CTH T	1	1	RT	433+25	0010			
LEFT ARROW	0	1	RT	433+25	0010			
YI ELD	1	1	LT	433+80	0010			
ST0P	1	1	RT	435+00	0010			
DIVIDED HWY	0	1	RT	435+00	0010			
ONE WAY	1	1	RT	435+10	0010			
ONE WAY	0	1	RT	435+10	0010			
NORTH	1	1	RT	437+25	0010			
USH 53	0	1	RT	437+25	0010			
	31	33		SUB-TOTAL	9			
	68	69	;	OTAL 0010	Т			

PROJECT NO: 1196-00-70 HWY: USH 53 NB COUNTY: WASHBURN - DOUGLAS MISCELLANEOUS QUANTITIES SHEET: E

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

TOTAL 0010

MOBILIZATIONS EROSION CONTROL

	EROSION CONTROL SUMMARY										
			626. 0500	627. 0200	628. 1504	628. 152	629. 0210	630. 0110	630. 0200		
			SALVAGED	MULCHI NG	SILT FENCE	SILT FENCE	FERTI LI ZER	SEED MIX	SEED		
			TOPSOI L			MAI NTENANCE	TYPE B	NO. 10	TEMPORARY		
CAT.	STATI ON	LOC	SY	SY	LF	LF	CWT	LB	LB	REMARKS	
0010	UNDI STRI	BUTED	200	200			0. 20	10	10	CURBS, CULVERT ENDS MISC.	
	244+00 -	313+00)		727	325				TURN LANES	
										_	

0. 20

PROJECT

10

10

MARKERS CULVERT END

		633. 5200	
CAT.	STATI ON	EACH	REMARKS
0010	216+69	2	X-PI PE
0010	280+55	2	11
0010	300+30	2	11
0010	306+62	2	11
0010	362+86	2	11
0010	409+16	2	11
	;		•
	T0TAL 0010	12	

FIELD OFFICE TYPE C

642. 5201

CAT. LOC EACH REMARKS

325

TOTAL 0010 1

727

0010 ALL

TRAFFIC CONTROL SUMMARY										
	643. 0300	643. 0420	643. 0705	643. 0715	643. 0800					
		BARRI CADES	WARNING LIGHT	WARNING LIGHT	ARROW					
	DRUMS	TYPE 3	TYPE A	TYPE C	BOARD					
CAT. STATION TO STATION LOC	DAY	DAY	DAY	DAY	DAY	REMARKS				
0010 208+20 - 436+62 CL	25344	1270	2540	2720	160					
						i				
TOTAL 0010	25344	1270	2540	2720	160					

	TRAFFIC CONTROL SIGNS										
					643. 0900	643. 1050					
					SI GNS	SI GNS					
						PCMS					
CAT.	STATI ON	T0	STATI ON	LOC	DAY	DAY	REMARKS				
0010	UNKNOWN	-	208+20	RT<	1840	35	ADVANCE WARNING				
0010	208+20	-	436+62	RT<	400		SIDE ROADS				
0010	0010 208+20 - 436+62 RT<		1565		BARRI CADES						
TOTAL 0010			3805	35	•						

PROJECT NO: 1196-00-70 HWY: USH 53 NB COUNTY: WASHBURN - DOUGLAS MISCELLANEOUS QUANTITIES SHEET: E

TOTAL 0010

200

PAVEMENT MARKING SUMMARY										
	646. 1040					649. 0105	649. 0150			
	MARKING LINE	MARKING LINE	MARKING LINE	MARKING LINE	EP0XY	TEMP MARKING	REMOVABLE			
	GROOVED EPOXY	GROOVED EPOXY	GROOVED EPOXY	GROOVED EPOXY	STOP LINE	LINE PAINT	TAPE 4-INCH			
	4-INCH (YELLOW)	4-I NCH	4-I NCH	8-I NCH	18-I NCH	4-INCH (SKIPS)	WHI TE			
CAT. STATION TO STATION LOC	LF	LF	LF	LF	LF	LF	LF	REMARKS		
0010 208+20 - 436+62	23779	22528	5707	2800		5711		PROJECT		
0010 191+50 - 201+50							2000	LANE TAPER		
0010 363+70 364+70					100					
0010 434+50 - 434+90					28			RED LK DRIVE		
TOTAL 0010	23779	22528	5707	2800	128	5711	2000			

					CONSTRUCTI	ON STAKING	SUMMARY		~
					650. 5000	650. 5500	650. 6000	650. 8000	
					BASE	CURB AND	PI PE	RESURFACE	
						GUTTER	CULVERTS	REFERENCE	
CAT.	STATI ON	T0	STATI ON	LOC	LF	LF	EACH	LF	REMARKS
0010	208+20	-	436+62					22842	PROJECT
0010	227+00	-	232+00	RT	500				LKSD SOUTH
0010	250+00			RT			1		LKSD MIDDLE
0010	243+00	-	249+50	LT&RT	1200				LKSD MIDDLE
0010	291+00	-	296+00	LT	500				LKSD NORTH
0010	358+40	-	361+00	LT&RT	250				SCH00L
	433+83		435+16	RT		160			
		-	ΓΟΤΑL 001	0	2450	160	1	22842	

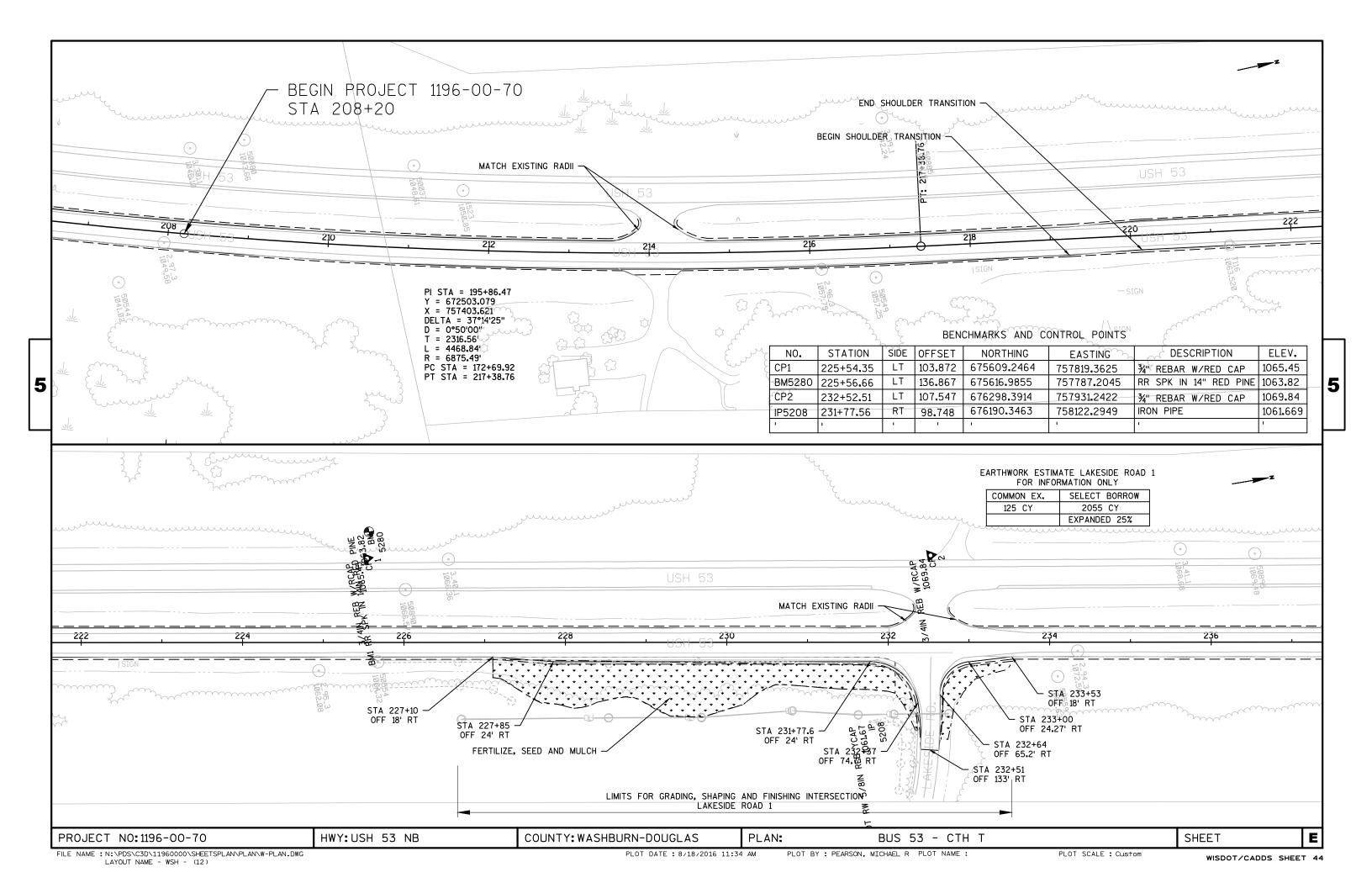
ON-THE-JOB TRAINING SPECIALS										
	ASP. 1TOA ON-THE-JOE	ASP. 1TOG 3 TRAINING								
	APPRENTI CE	GRADUATE								
CAT. STATION TO STATION LOC	HRS	HRS	REMARKS							
0010 208+20 - 436+62	630	2000	PROJECT							
TOTAL 0010	630	2000	-							

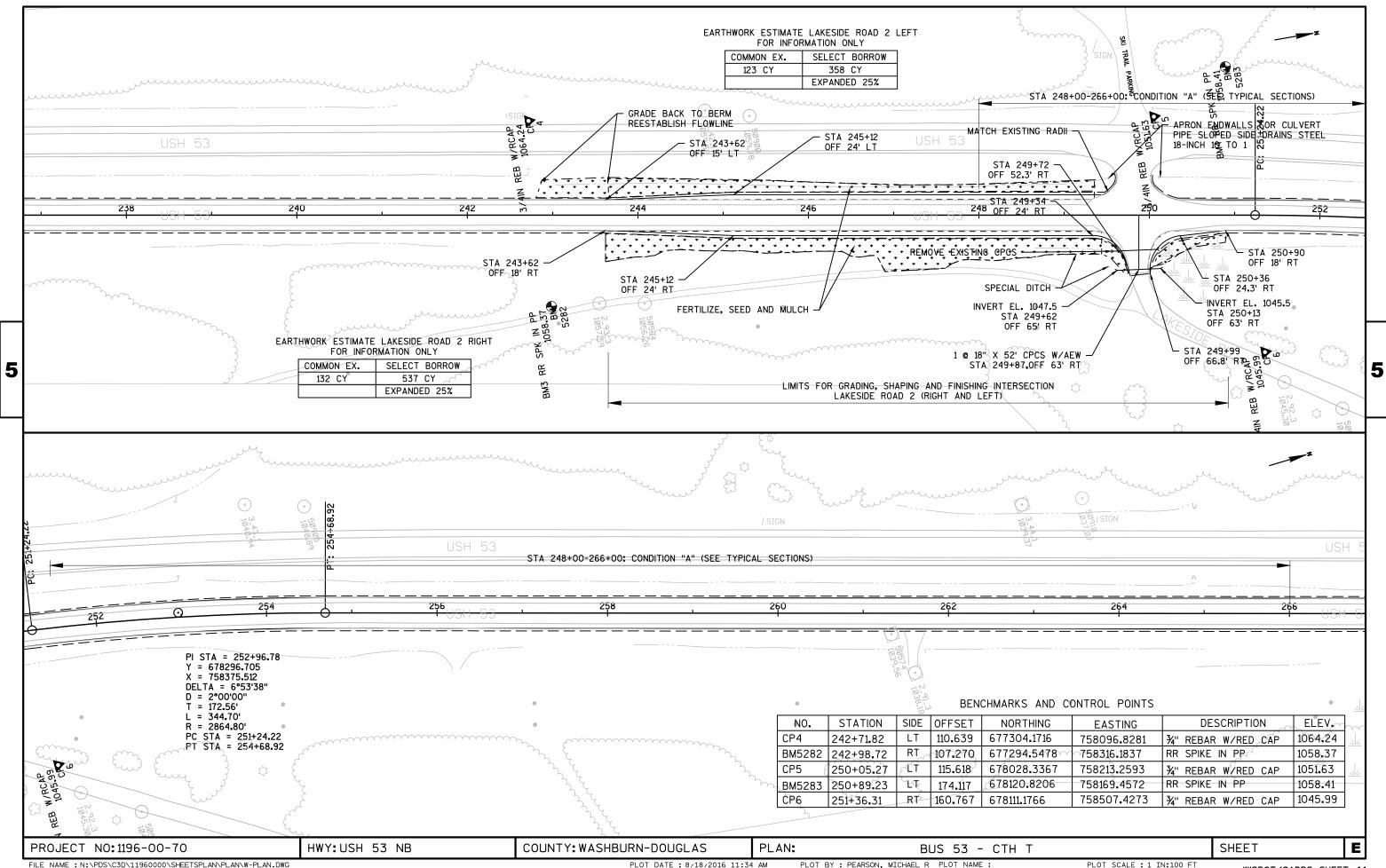
MATERIAL TRANSFER VEHICLE										
SPV. 0105. 01										
CAT. STATION TO STATION LOC LS REMARKS										
0010	208+20	-	436+62	ALL	1	UPPER LAYER				
TOTAL 00 1										

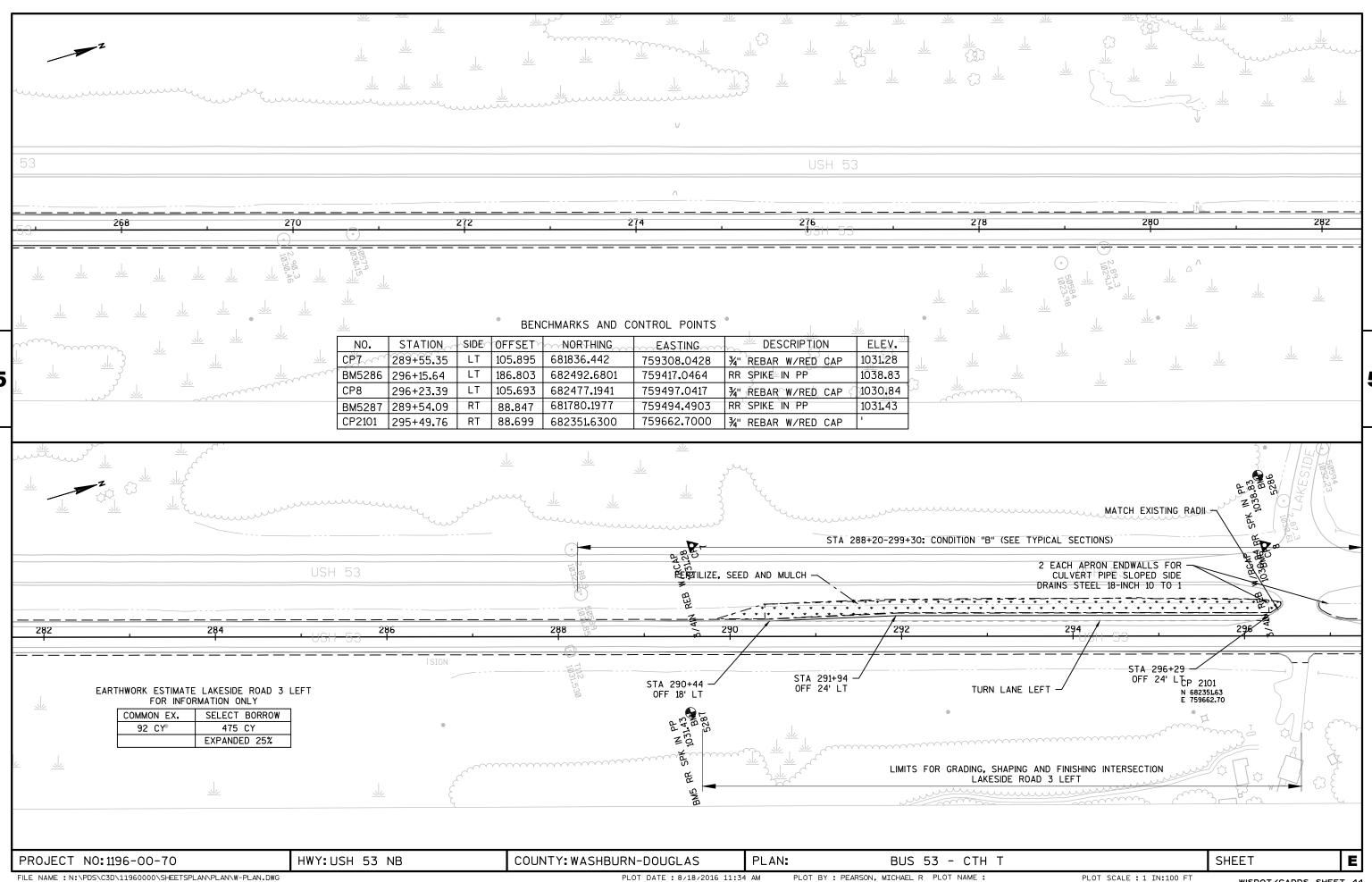
		SAWII	NG PAVEMEN	T SUMMARY	
			690. 0150	690. 25	
			SAWI NG	SAWI NG	
			ASPHALT	CONCRETE	
CAT.	STATI ON	LOC	LF	LF	REMARKS
0010	214+00	LT	41		MEDI AN
0010	232+50	LT	39		MEDI AN
0010	232+50	RT	22		LAKESI DE 1
0010	250+00	LT	39		MEDI AN
0010	296+75	LT	40		MEDI AN
0010	305+00	LT	42		MEDI AN
0010	322+00	LT	40		MEDI AN
0010	335+75	LT	40		MEDI AN
0010	344+25	LT	48		MEDI AN
0010	364+75	LT	61		MEDI AN
0010	377+00	LT	30		MEDI AN
0010	377+00	RT	20		DRI VE
0010	386+75	LT	31		MEDI AN
0010	434+50	LT	62		MEDI AN
0010	434+50	RT	28		RED LK
0010	436+62	RT<		26	TERMI NAL JOI NT
	TO	: OTAL 00	583	26	=

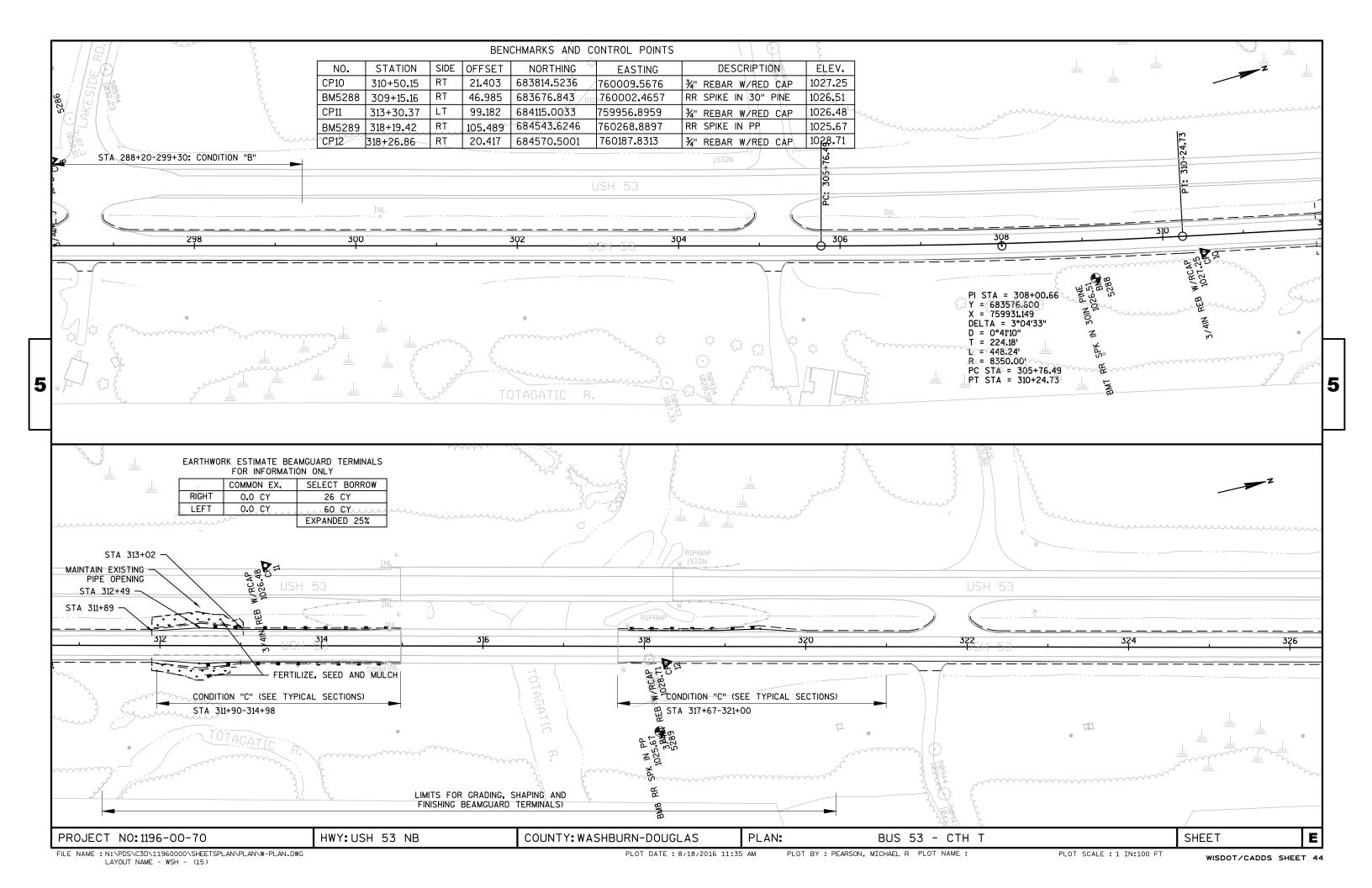
PROJECT NO: 1196-00-70 HWY: USH 53 NB COUNTY: WASHBURN - DOUGLAS MISCELLANEOUS QUANTITIES SHEET: E

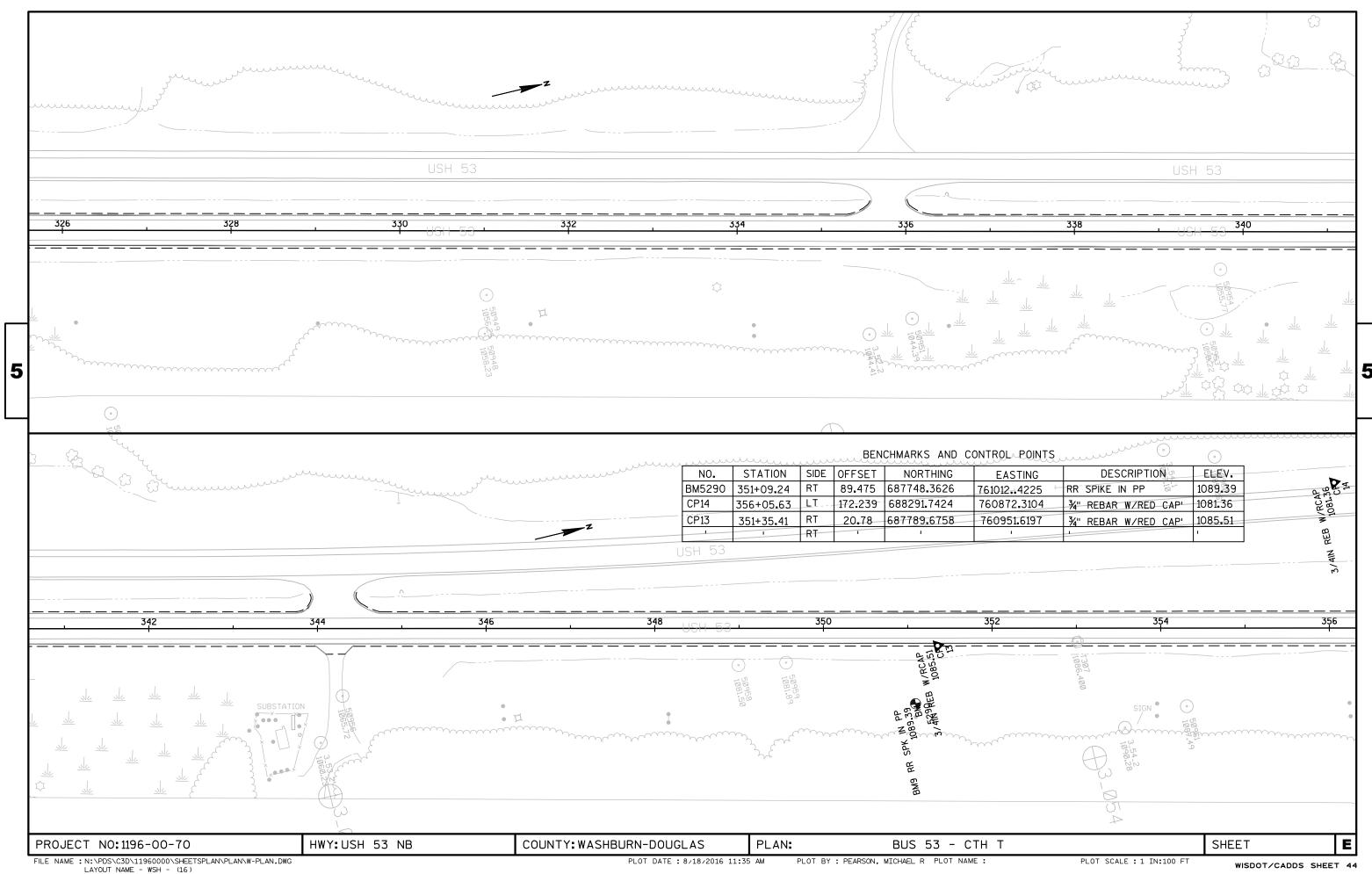
FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

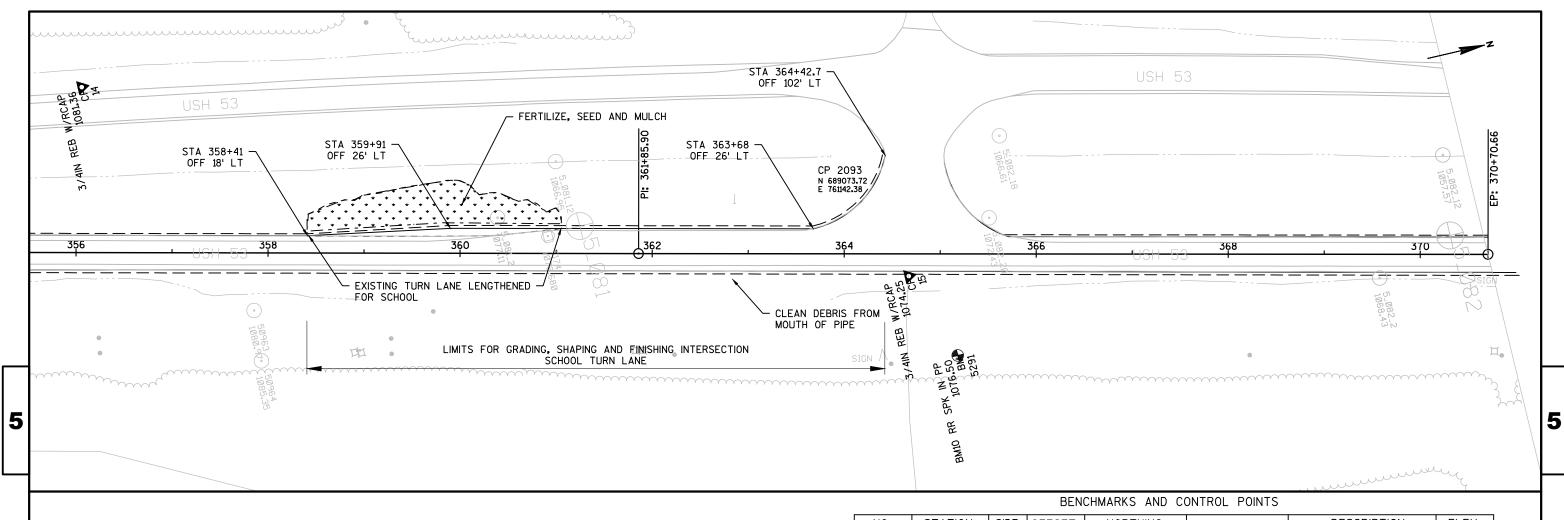








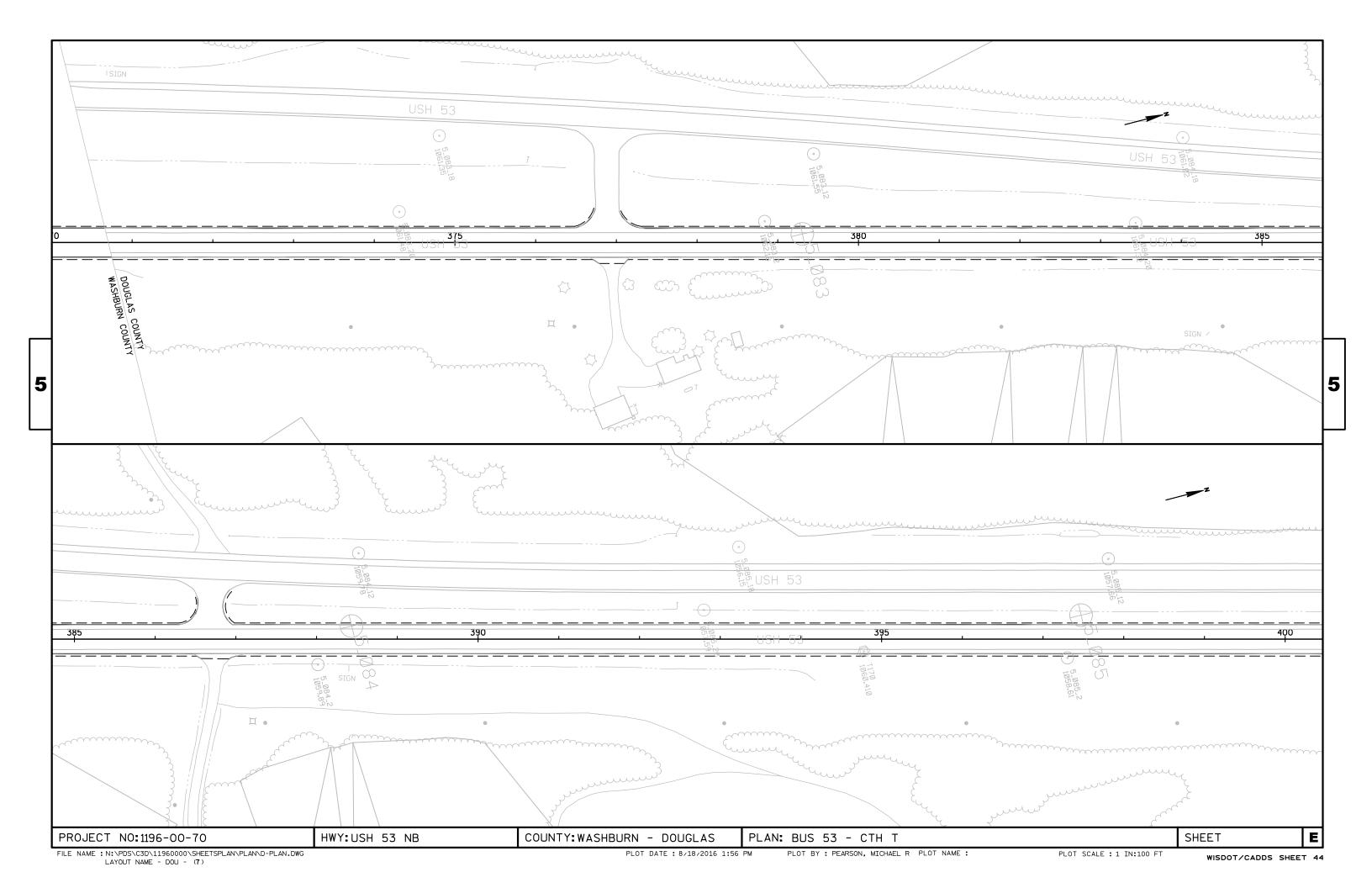


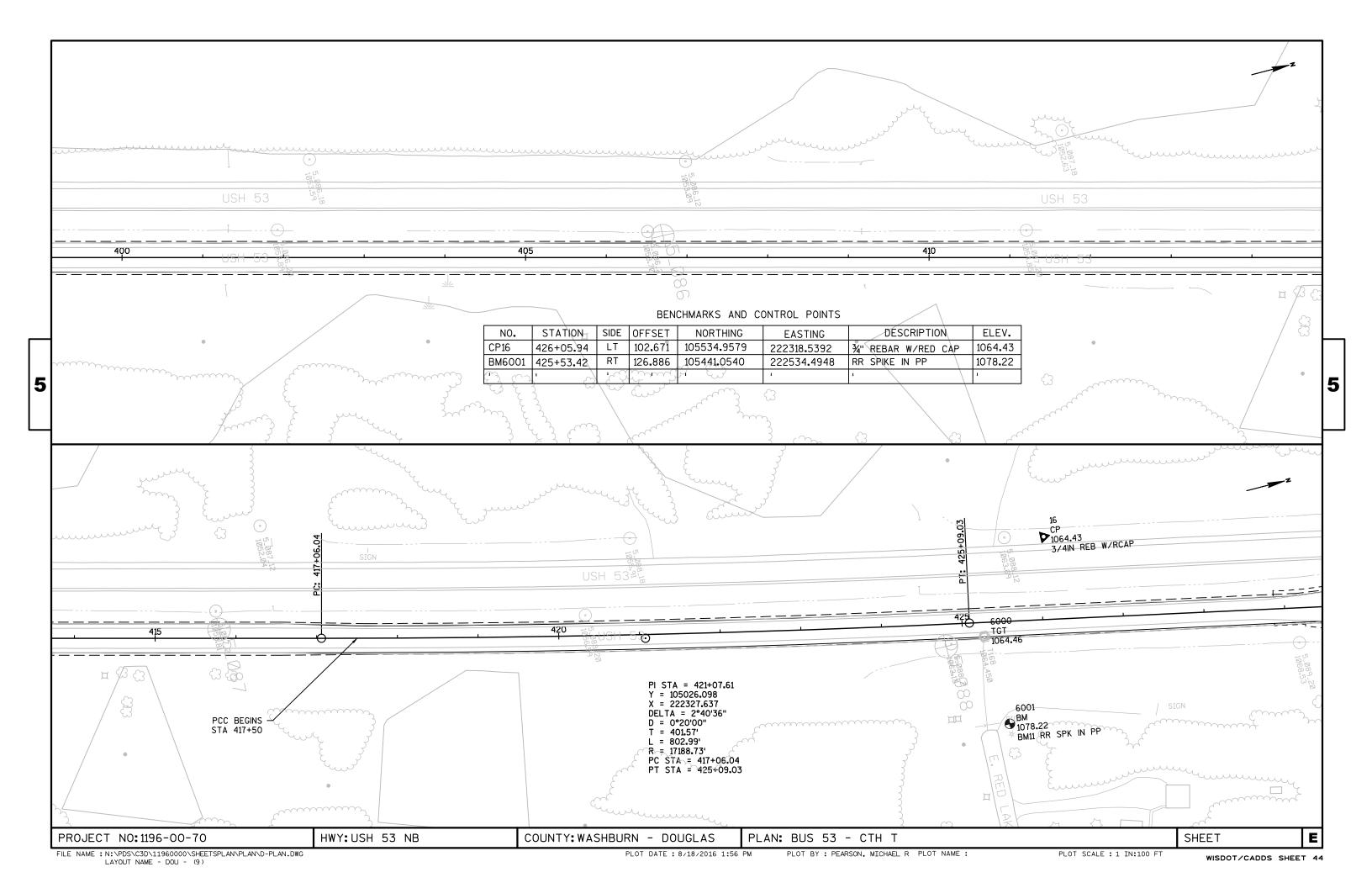


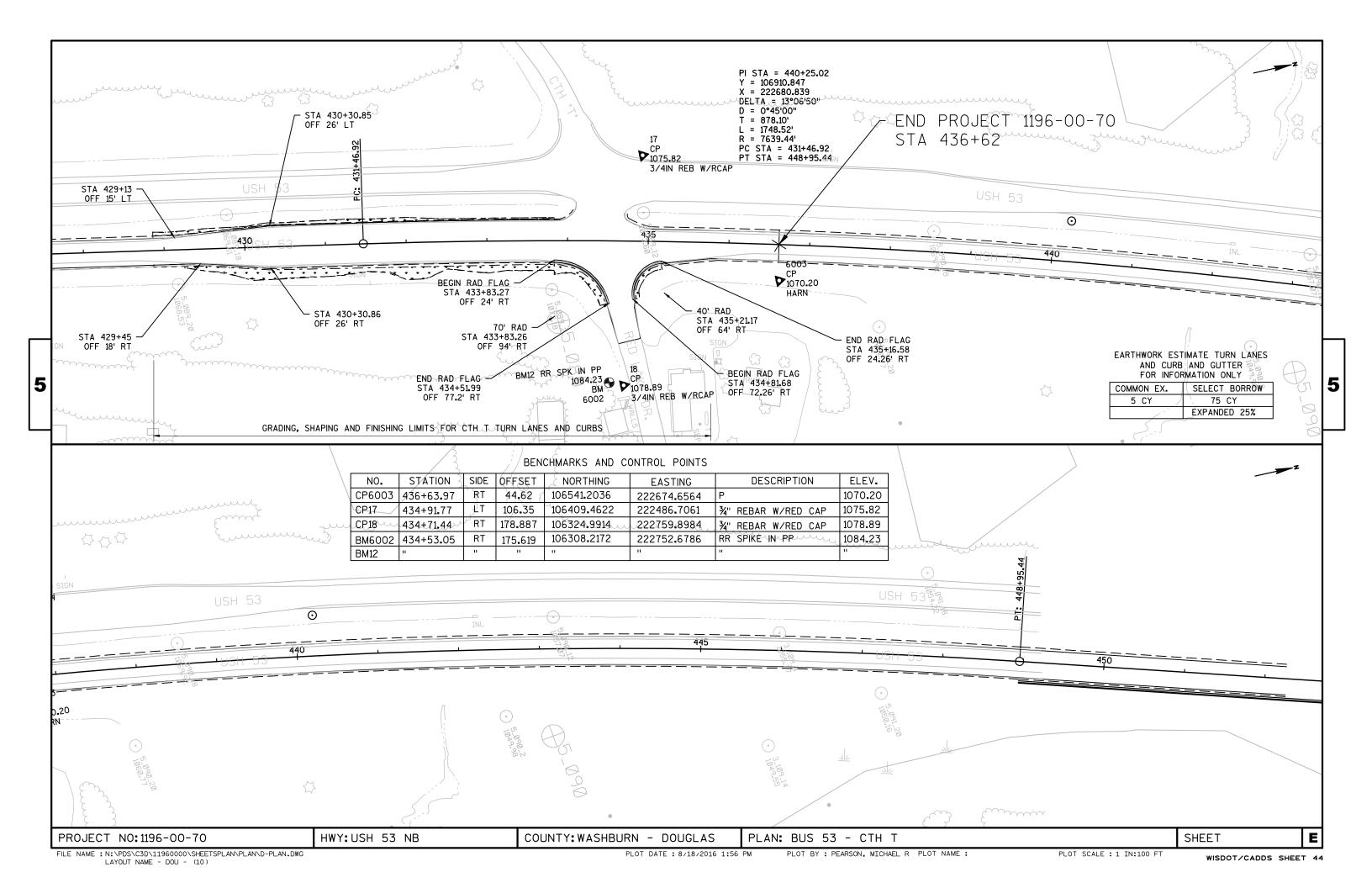
EARTHWORK	ESTIMATE	SCHOOL	TURN	LANE
FC	OR INFORM	ATION ON	LY	

COMMON EX.	SELECT BORROW				
70 CY	154 CY				
	EXPANDED 25%				

NO.	STATION	SIDE	OFFSET	NORTHING	EASTING	DESCRIPTION	ELEV.
CP2093	364+29	LT	52.184	689073.72	761142.38	1	1071.97
CP14	356+05.63	LT	172.239	688291.7424	760872.3104	¾" REBAR W/RED CAP'	1081.36
CP15	364+67.38	RT	23.216	689085.2216	761261.0778	¾" REBAR W∕RED CAP'	1074.25
BM5291	365+18.52	RT	105.77	689116.0206	761353.1747	RR SPIKE IN PP'	1076.50

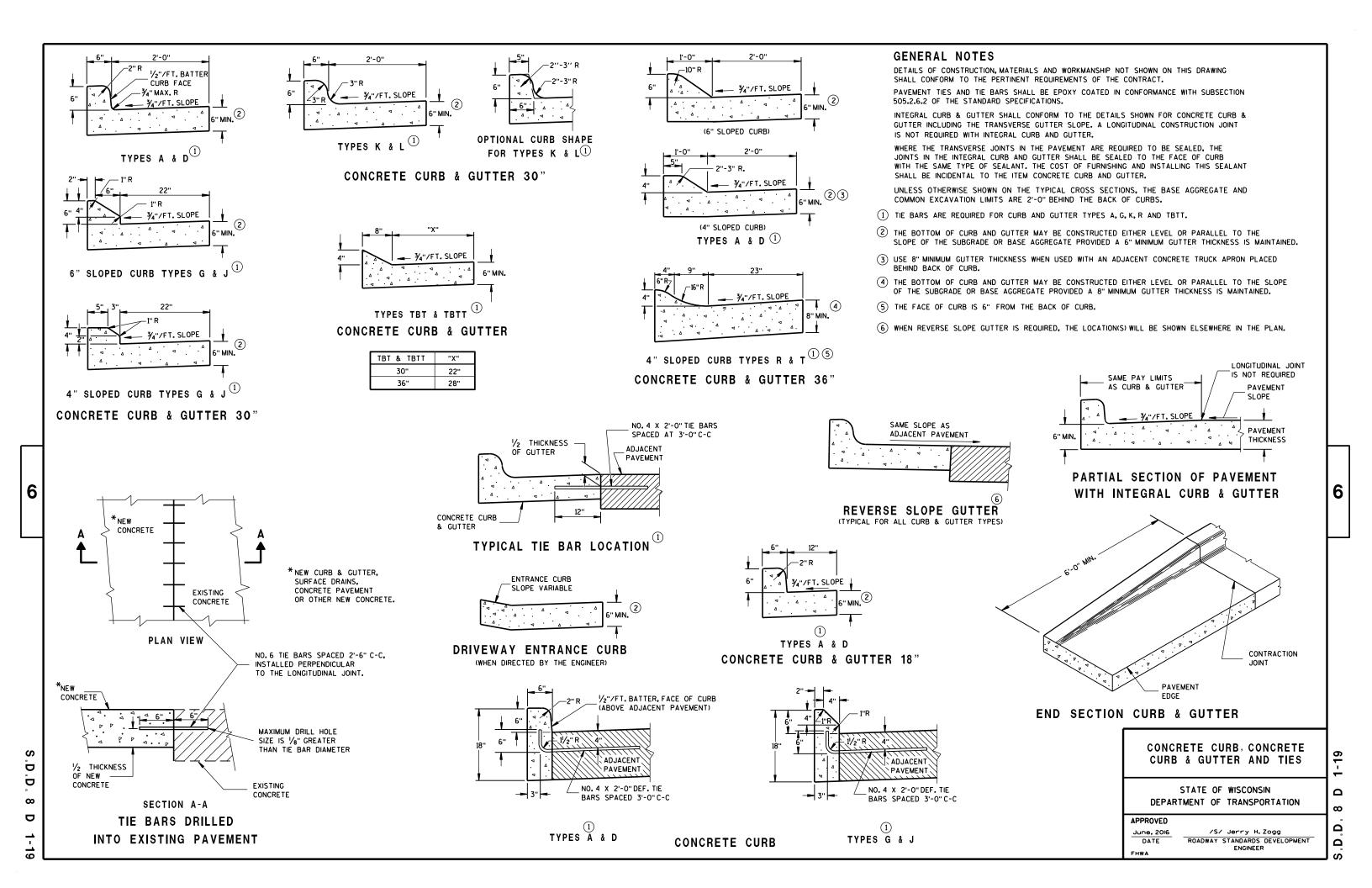






Standard Detail Drawing List

08D01-19 08E08-03 08E09-06 08F01-11	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS SILT FENCE APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
14B28-03	GUARDRAIL MOW STRIP
14B29-01	SAFETY EDGE
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C07-13C	PAVEMENT MARKING ARROWS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C19-04C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D12-06B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-03B	TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-03C	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-03D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D21-04 15D23-04	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D27-03 15D38-01B	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH ATTACHMENT OF SIGNS TO POSTS
15D36-01B	TRAFFIC CONTROL, DROP-OFF SIGNING
13037-01	TRAITIC CONTROL, DROF-OIT STONING



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

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.

- \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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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METAL APRON ENDWALLS															
PIPE	MIN. 1	THICK.	DIMENSIONS (Inches)							APPROX.					
DIA.	(Inches)						A	В	Н	L	Γį	L ₂	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2					
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.				
15	.064	.060	7	8	6	26	14	213/4	30	21/2+o 1	1Pc.				
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.				
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.				
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.				
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.				
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.				
42	.109	.105	16	22	11	69	24	75%	84	21/2 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	2 ¹ / ₄ †o 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×	.105×	18	45	12	87	_	_	138	11/2 to 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	1/2+0 1	3 Pc.				

	REINFORCED CONCRETE APRON ENDWALLS								
PIPE	DIMENSIONS (Inches)								
DIA.	T	A	В	С	D	Ε	G	APPROX. 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	491/2	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	**************************************	8 ¹ / ₄ - 100	90	51/2	2% to 1	
60	6	* ** 30-35	60	39	99	96	5	2 to 1	
66	61/2	* ** 24-30	* * * 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	1½+o 1	
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1	

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

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

DIMPLED BAND MAY BE USED WITH HELICALLY

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.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

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

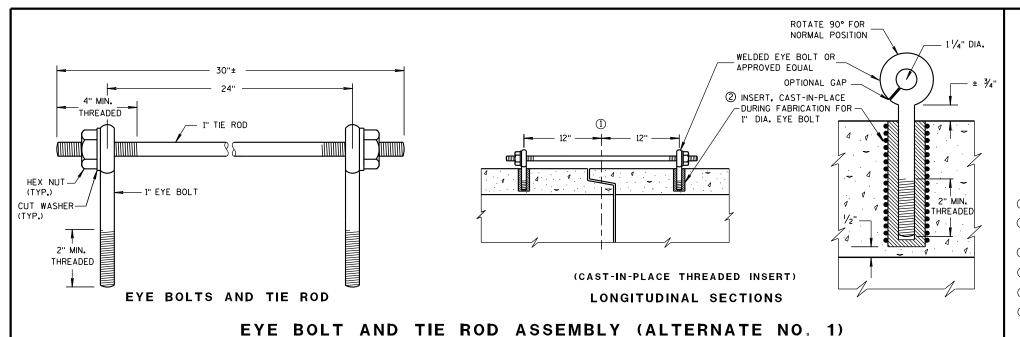
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES.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



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



GENERAL NOTES

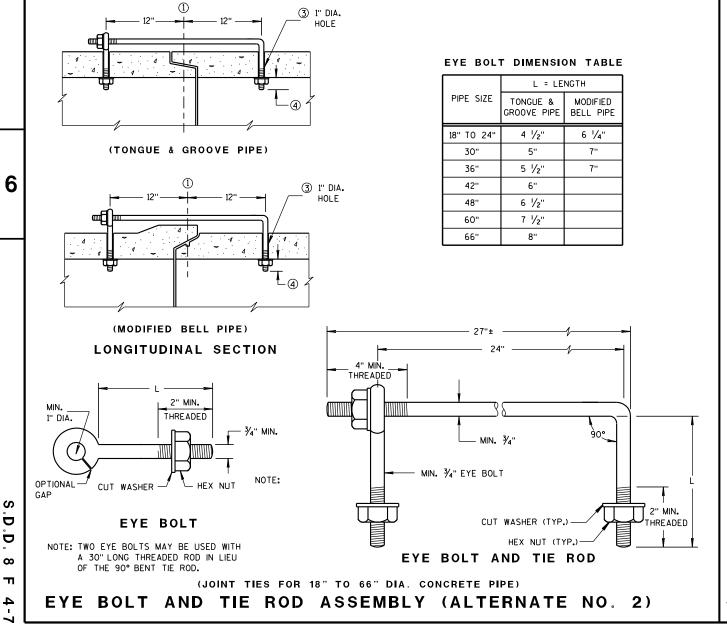
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

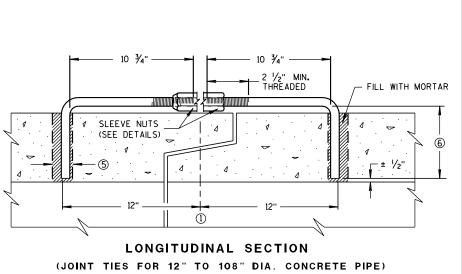
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

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

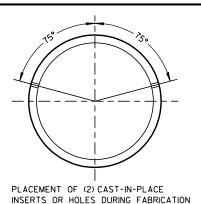
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT 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 **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

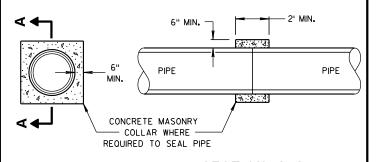


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

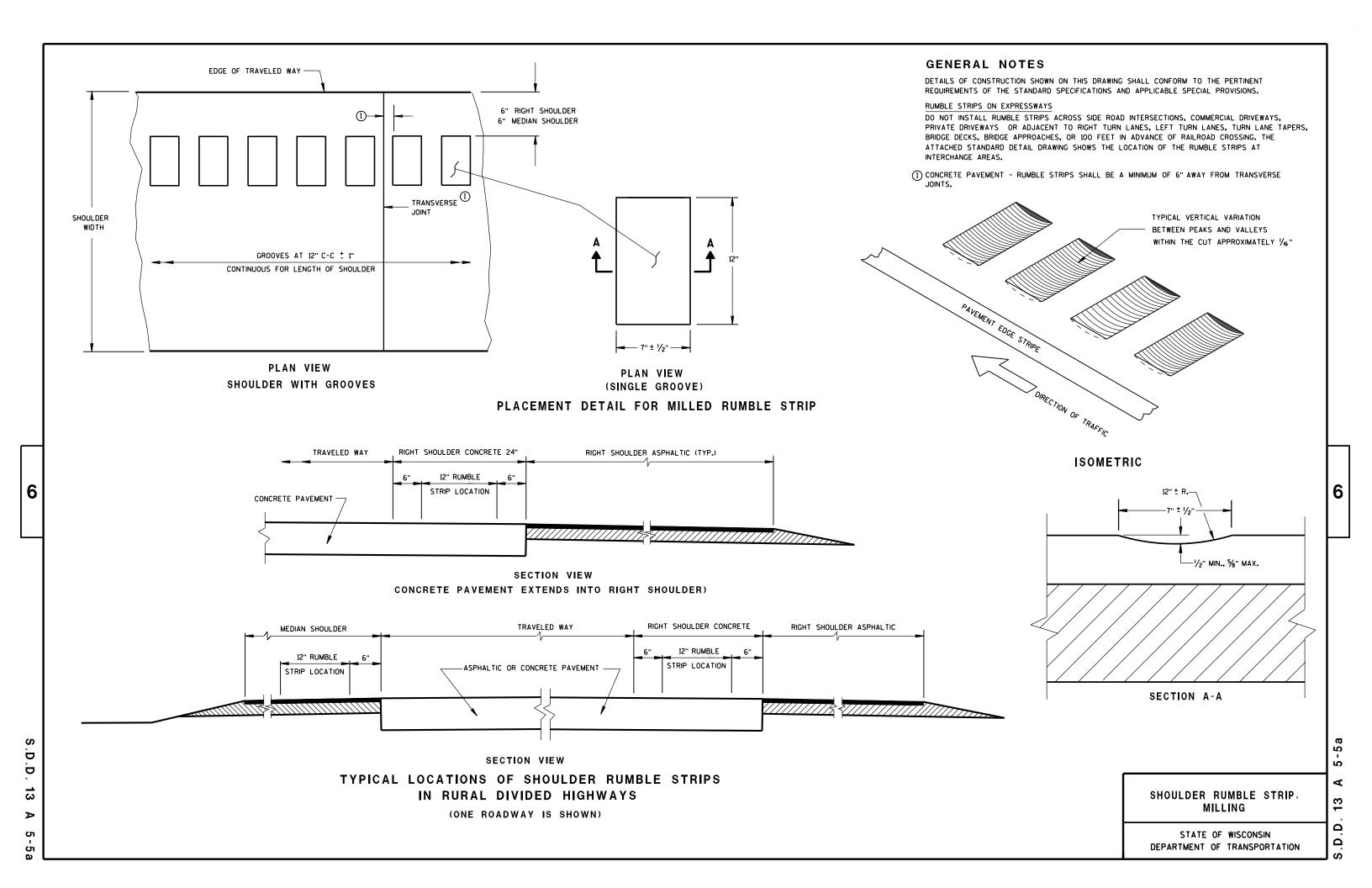
CONCRETE COLLAR DETAIL

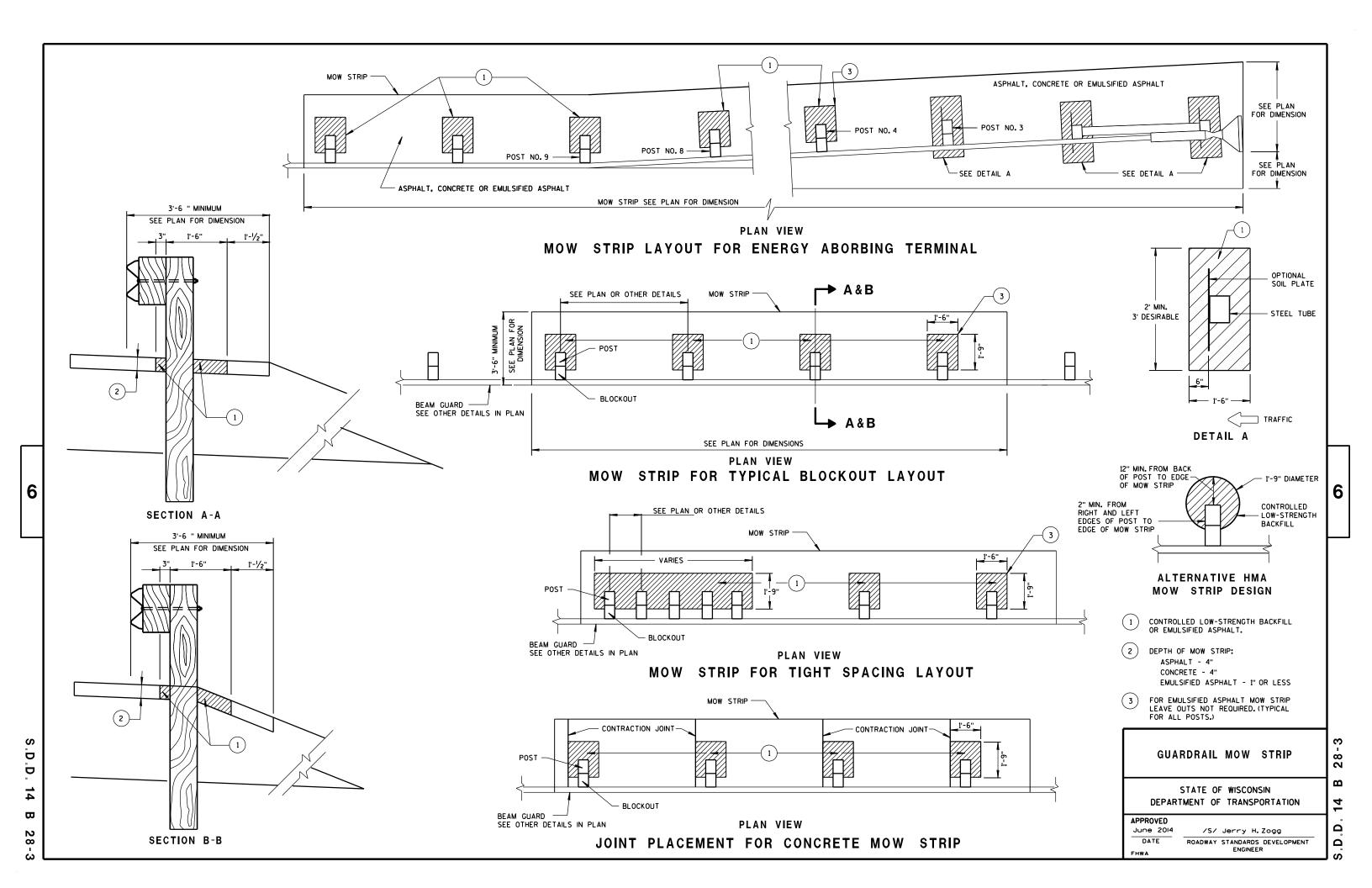
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

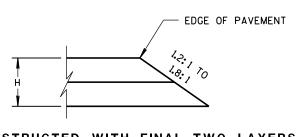
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

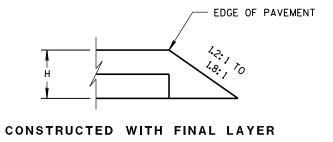
6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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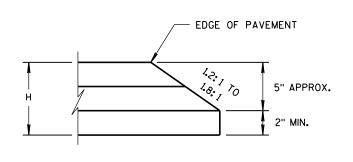


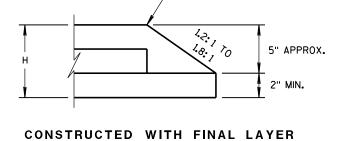


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





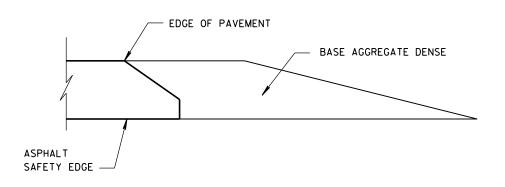
FOR H GREATER THAN 5"

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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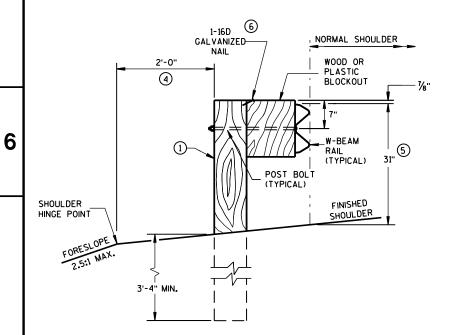
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APPROVED

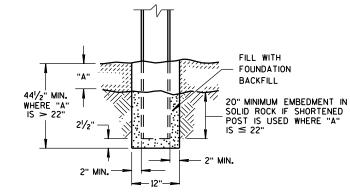
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

- 2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2 INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



END VIEW

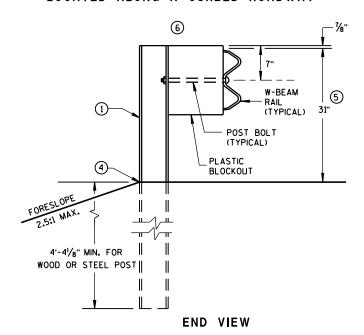
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



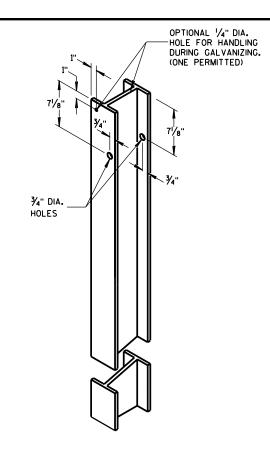
END VIEW SETTING STEEL OR WOOD POST IN ROCK 3



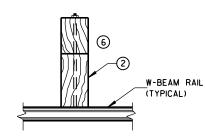
END VIEW LOCATED ALONG A CURBED ROADWAY



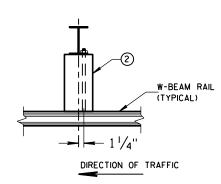
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



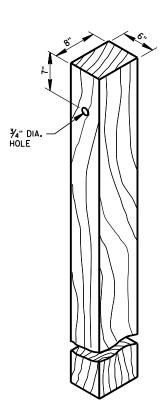
STEEL POST & HOLE PUNCHING DETAIL (w6X9)^①



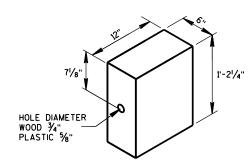
PLAN VIEW WOOD POST, **BLOCKOUT & BEAM**



PLAN VIEW STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

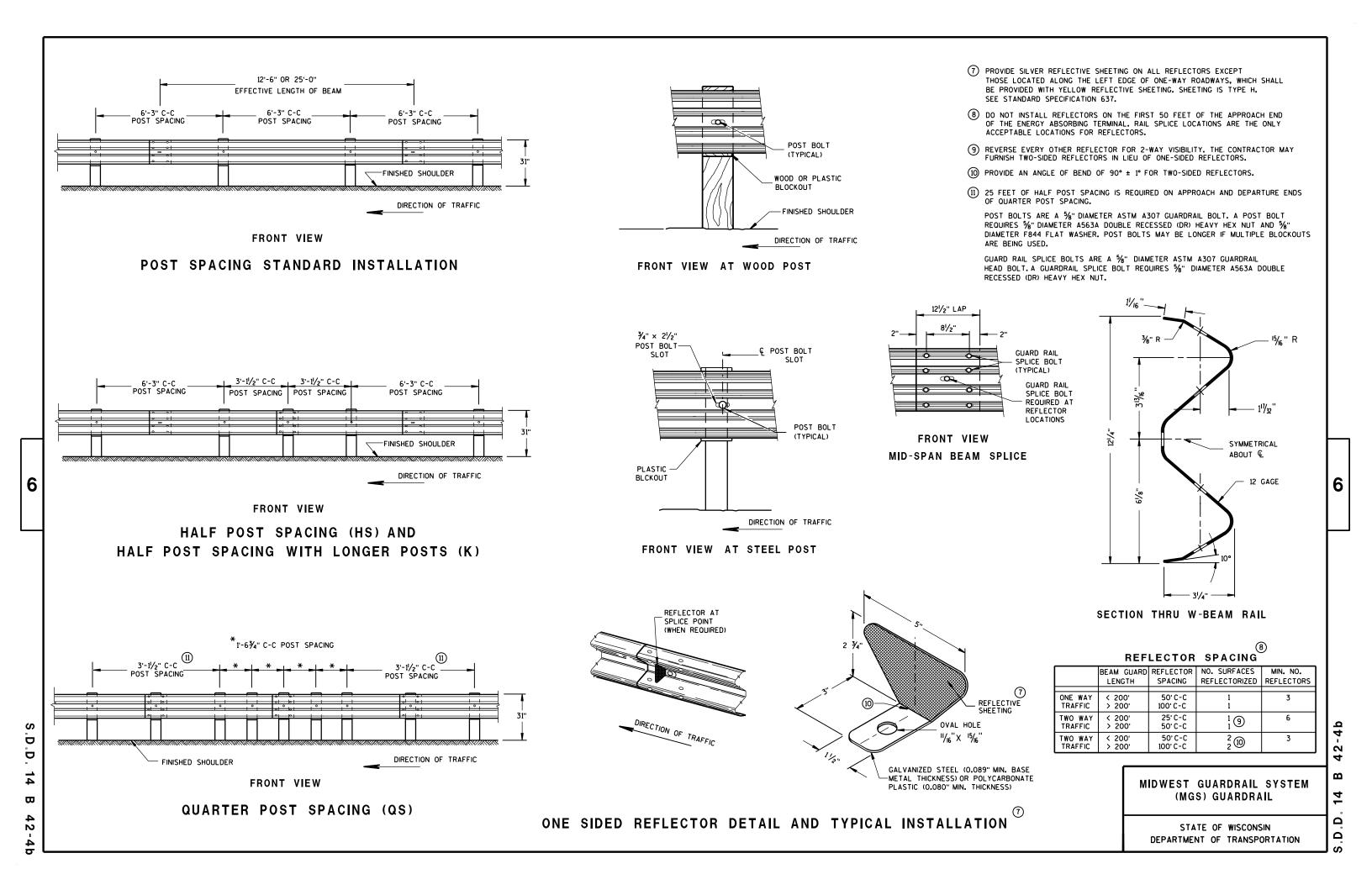
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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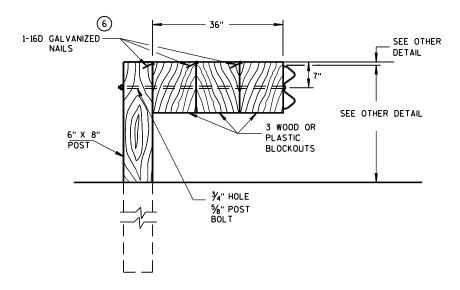
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DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

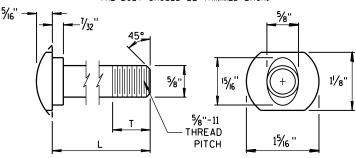


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

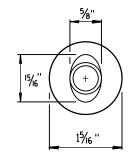
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

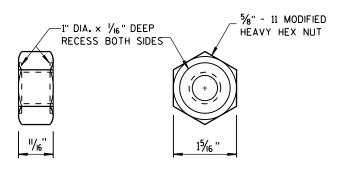


POST BOLT TABLE

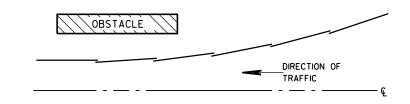
11/8"
-70
13/4"
4"
4½ ₆ "
4"
41/16"
4"



ALTERNATE BOLT HEAD

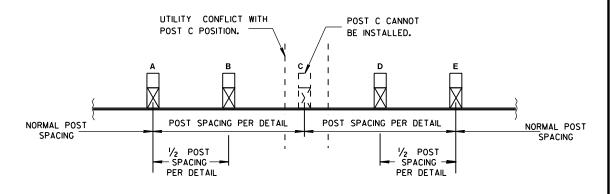


POST BOLT, SPLICE BOLT AND RECESS NUT



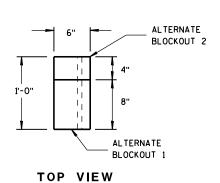
PLAN VIEW

BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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SECTION A-A SECTION B-B

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PLAN VIEW

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
(3)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



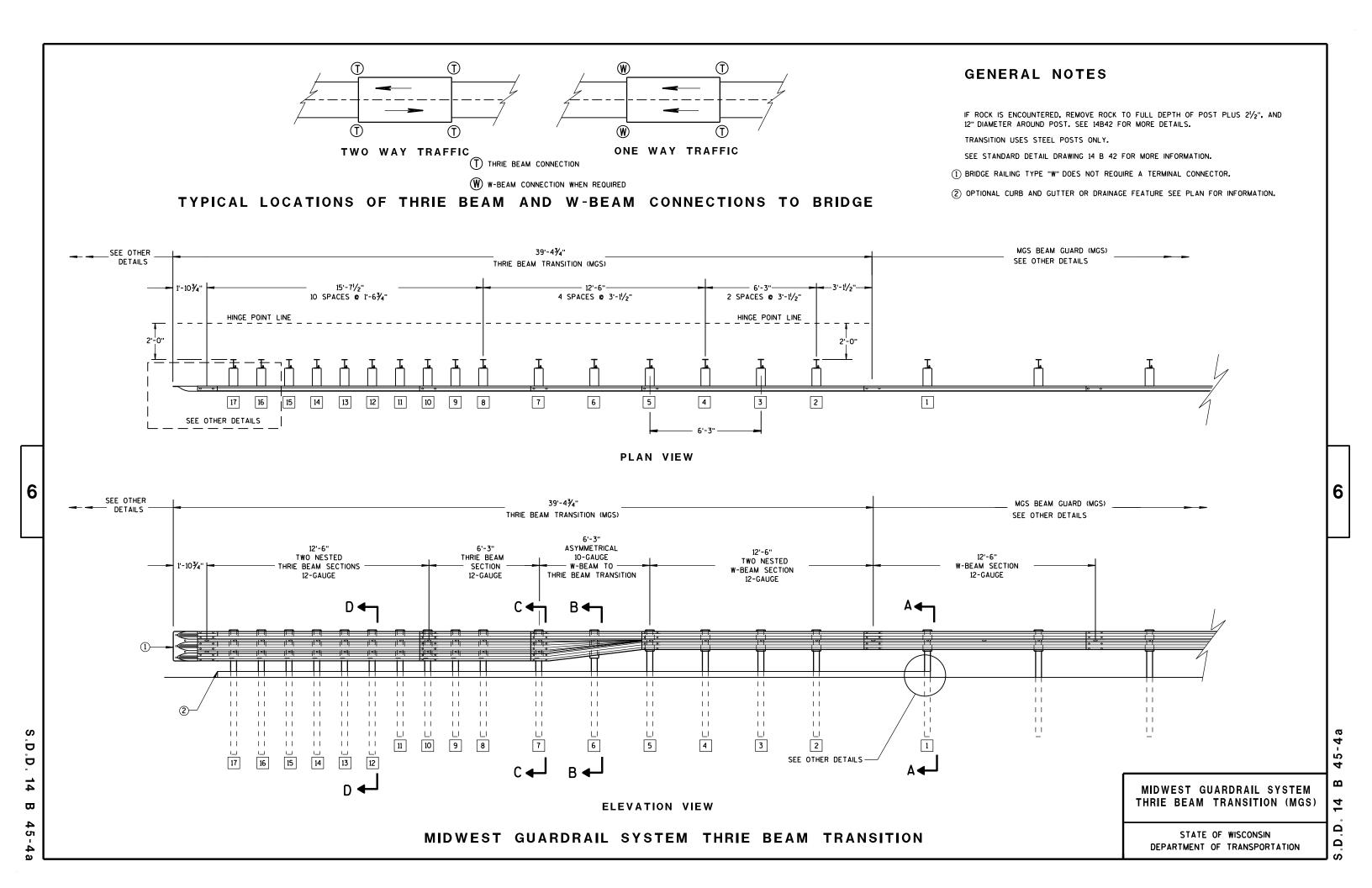
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

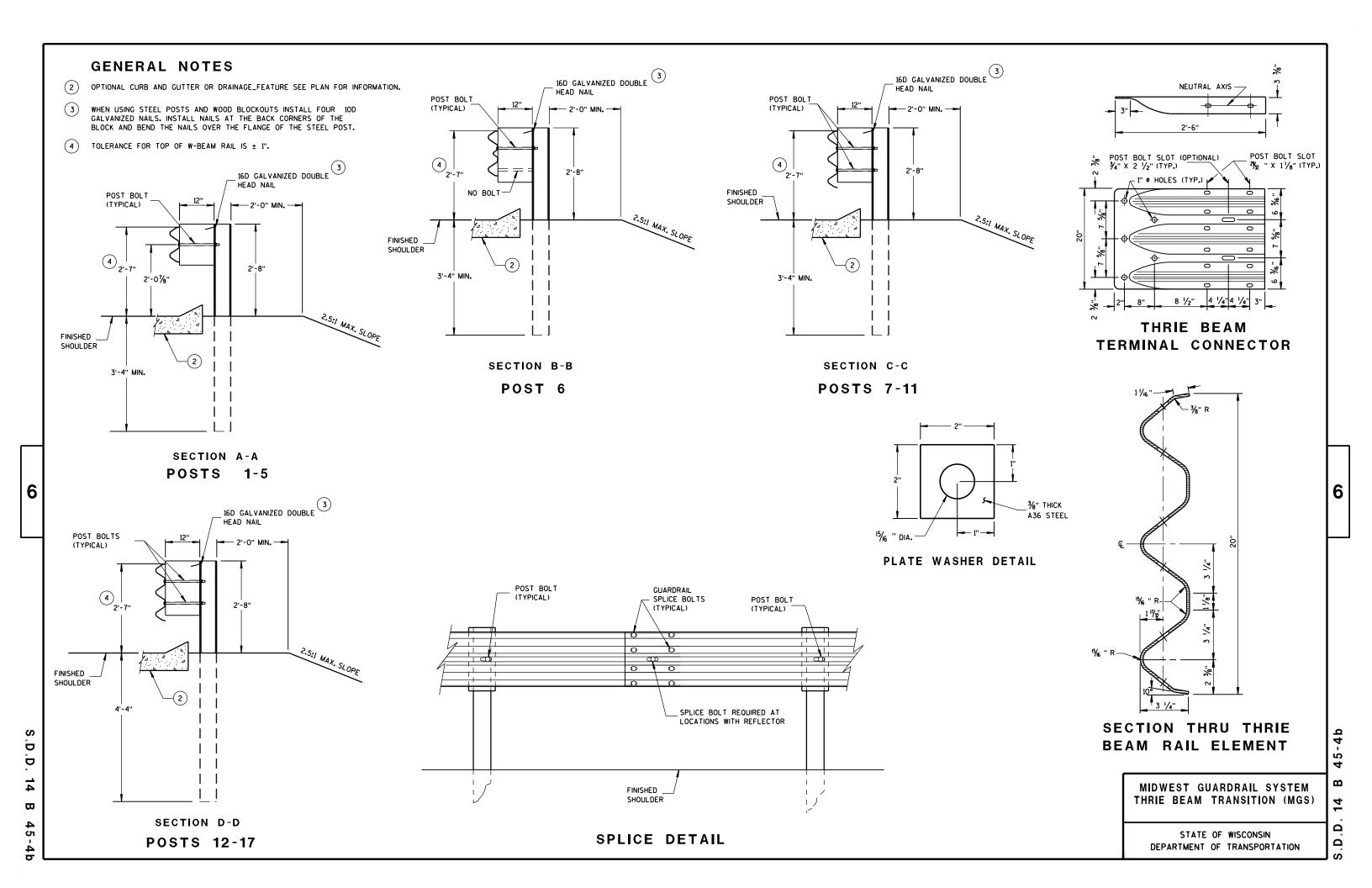
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

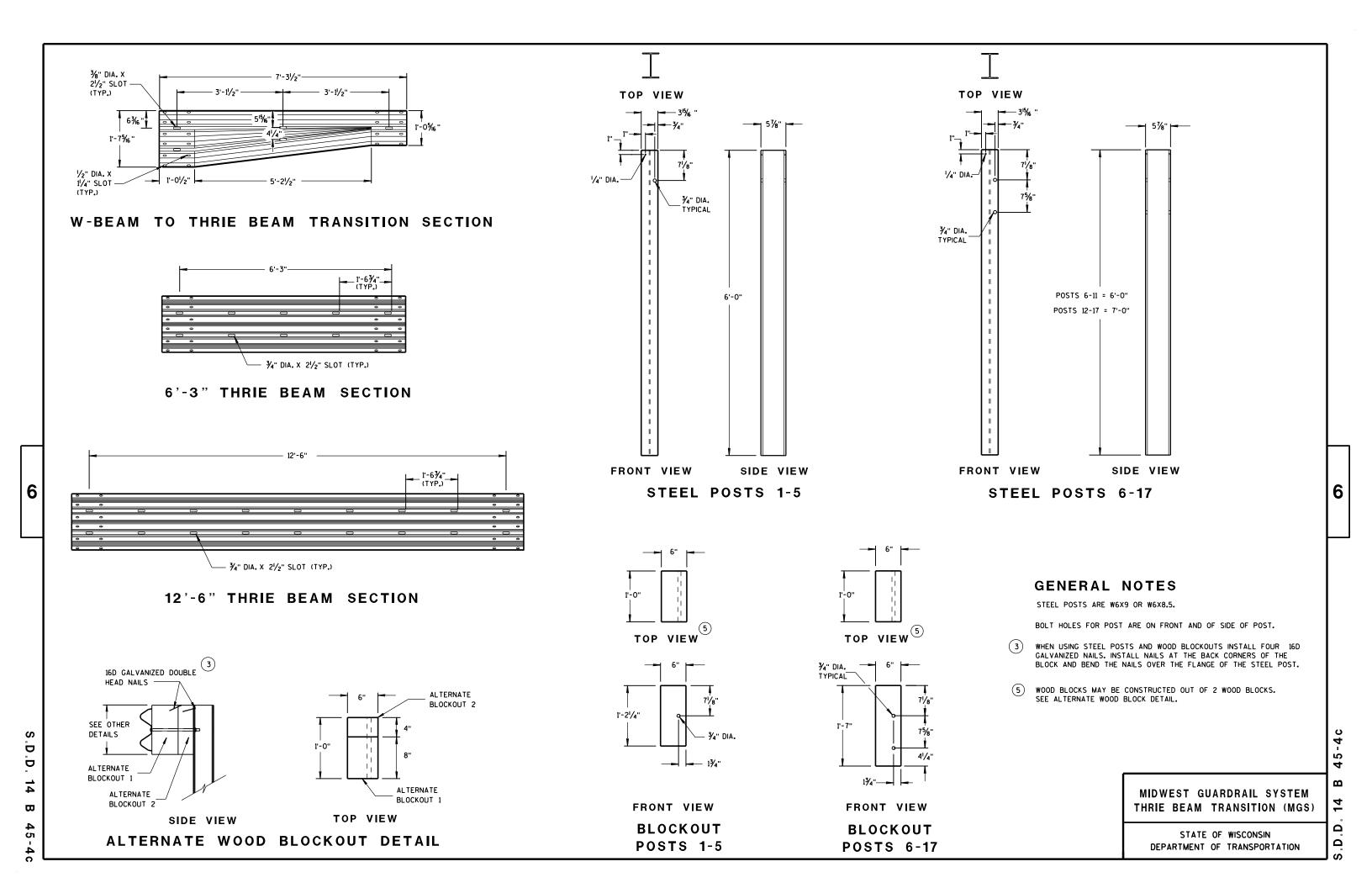
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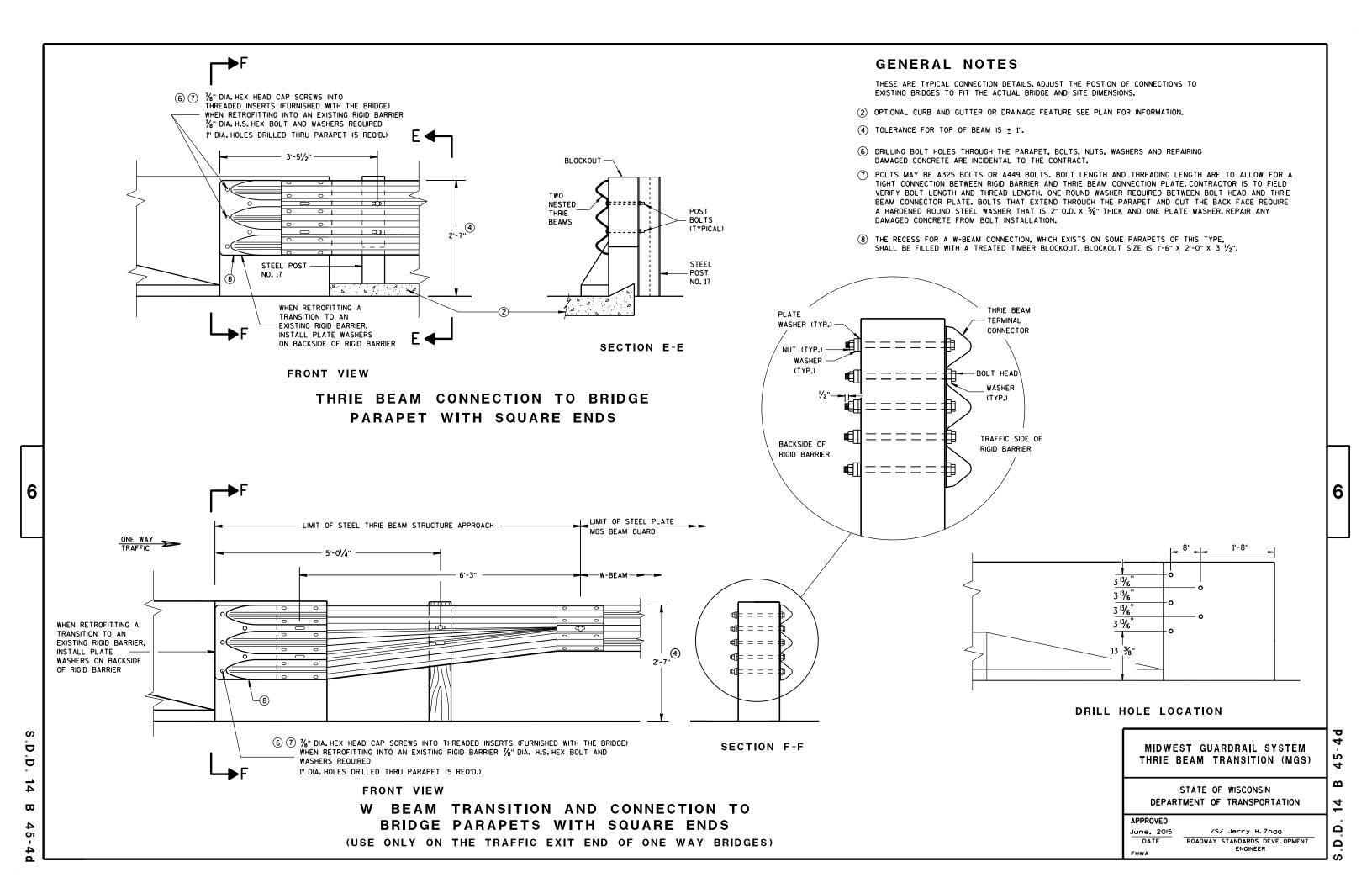
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THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".

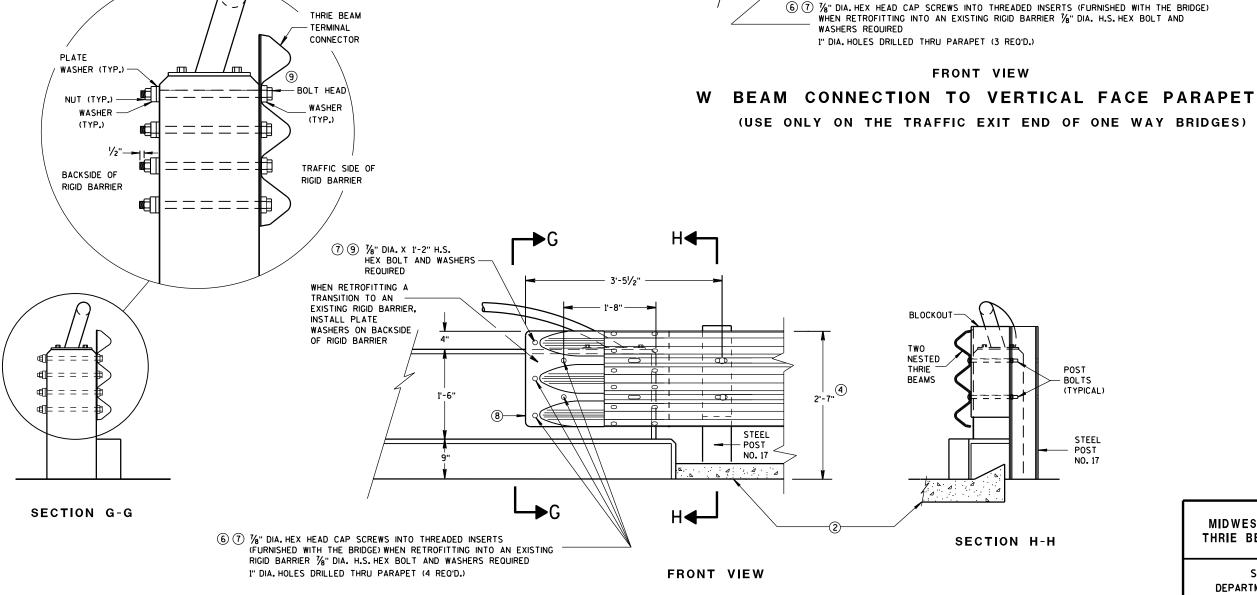
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- (6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTION PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5%" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

(7) 1/8" DIA. X 1'-2" H.S.

REQUIRED

WHEN RETROFITTING

A TRANSITION TO

AN EXISTING RIGID

BARRIFR, INSTALL

PLATE WASHERS

ON BACKSIDE OF

RIGID BARRIER

HEX BOLT AND WASHERS

W BEAM TERMINAL -

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MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
APPROVED
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE

FHWA

LIMIT OF STEEL PLATE

MGS BEAM GUARD

ONE WAY

TRAFFIC

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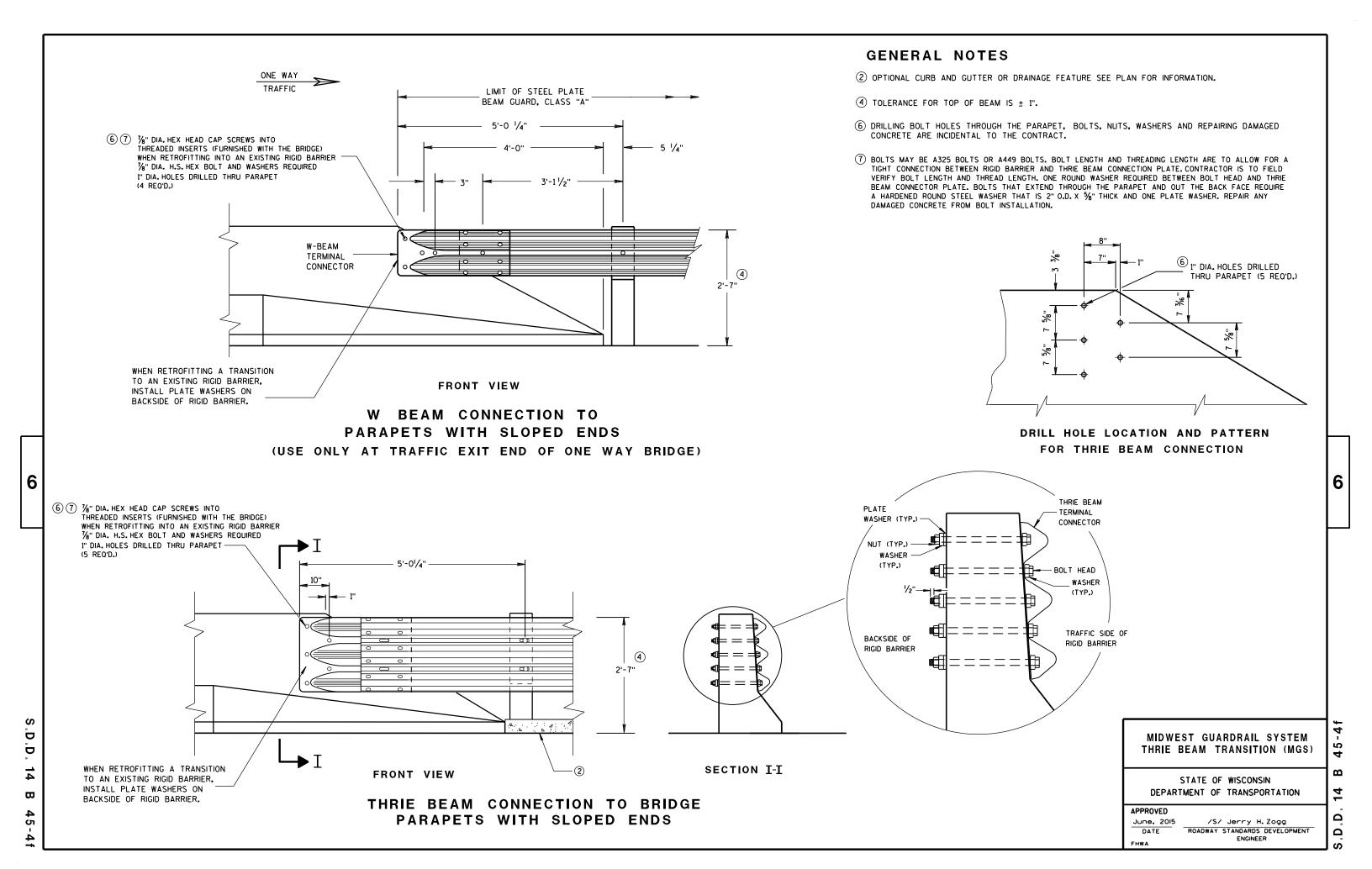
2'-7"

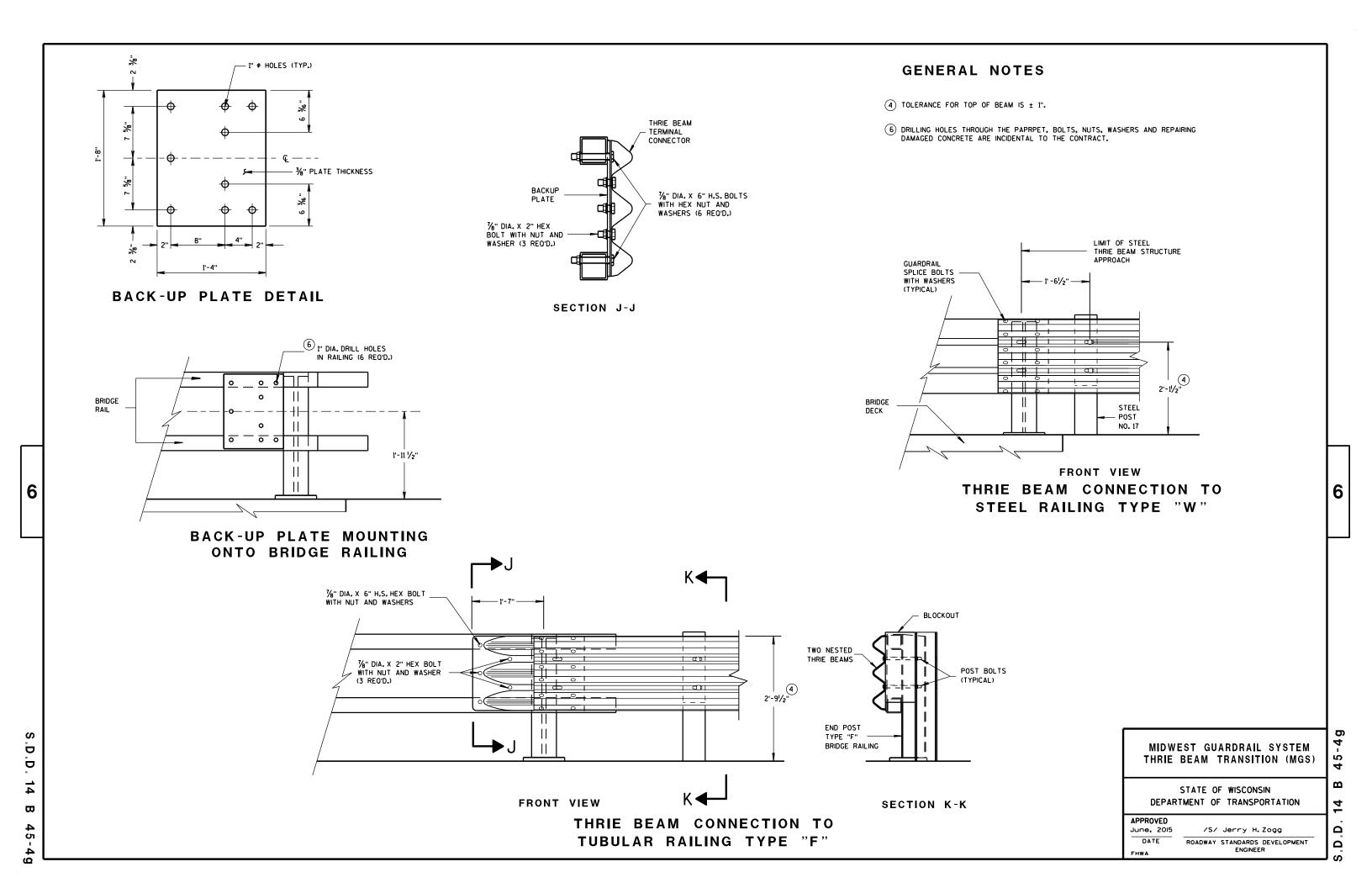
5'-0 1/4" —

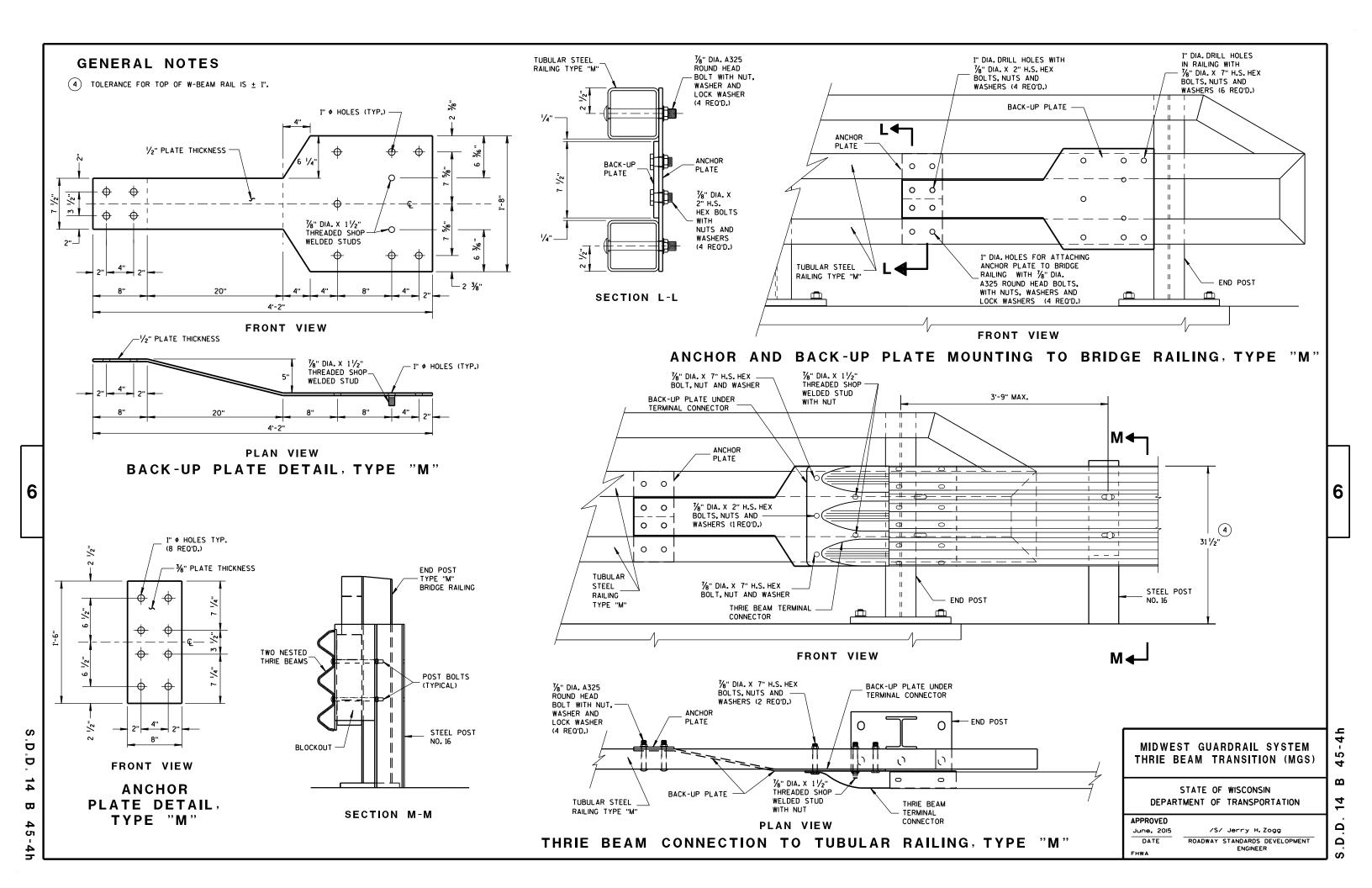
- 3'-1¹/₂"

ROADWAY STANDARDS DEVELOPMENT ENGINEER

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	CONNE		R ASSEMBLY)	ON
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	в₫	20" × 20"	3/6"
P2	1	B∱c	20" × 20" × 28%6"	¾6 "
Р3	1	B&D	39" × 35/8" × 20" × 195/6"	3/6 "
S1	4	B A	18 % 6" × 3 % " × 18 ¾ "	1/4"
S2	1	B D	10 ¹ / ₄ " × 2 ⁷ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"
S3	1	B₽₽	3" × 1½6" × 3½" × ½"	1/4"
S4	1	в₫	61/8" × 21/16"	1/4"
S5	1	в₾	6½" × ½"	1/4"
S6	1	в₾	7¾" × 1¾"	1/4"
S7	1	A DC	2%6" × 6" × 35%" × 57%"	1/4"
S8	1	4 <u>8</u> 4	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"
S9	1	C □ R	6½6" × 6¾6" × 1¾2"	1/4"
S10	1	A D C	11/8" × 91/8" × 35/8" × 911/16 "	1/4"
S11	1	c ≜	8½" × 8¾" × 1¼6 "	1/4"

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SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

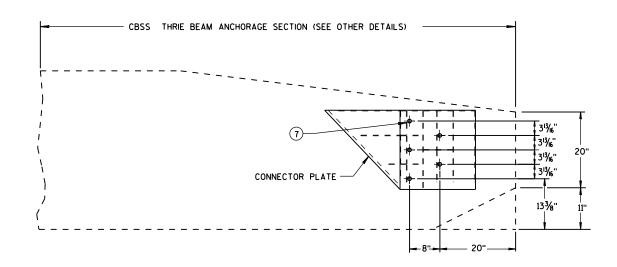
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2015	

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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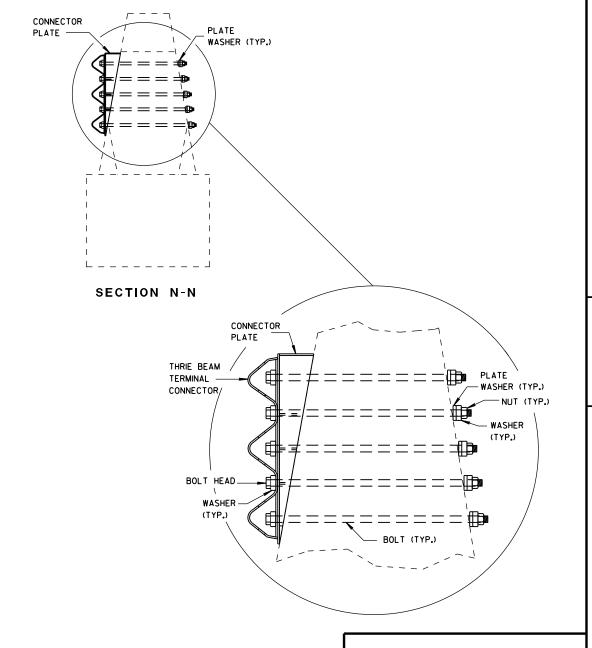


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

- 2 OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X %" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

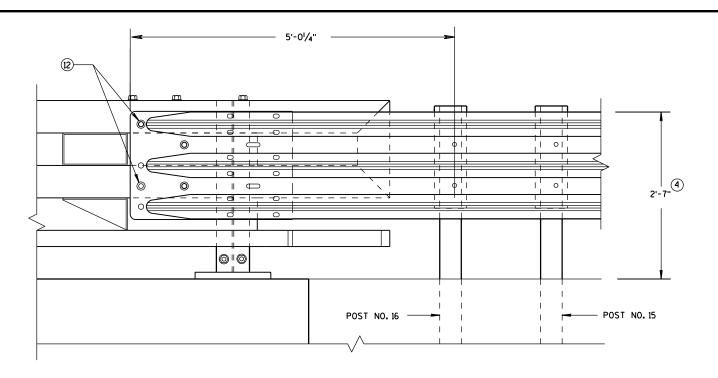
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June, 2015
DATE
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

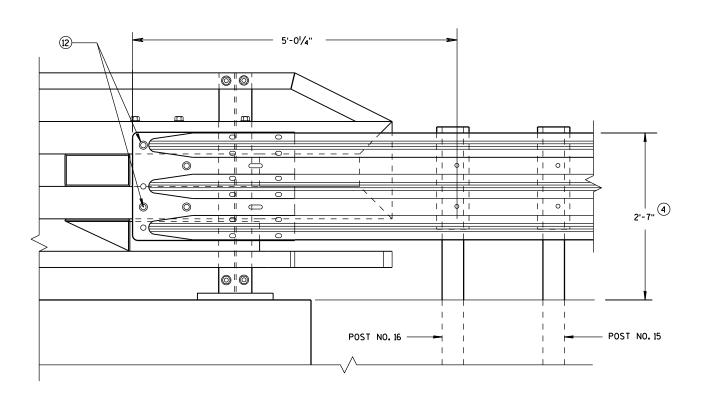
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ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

- 4 TOLERANCE FOR TOP OF BEAM IS ± 1".
- (12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) 6

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

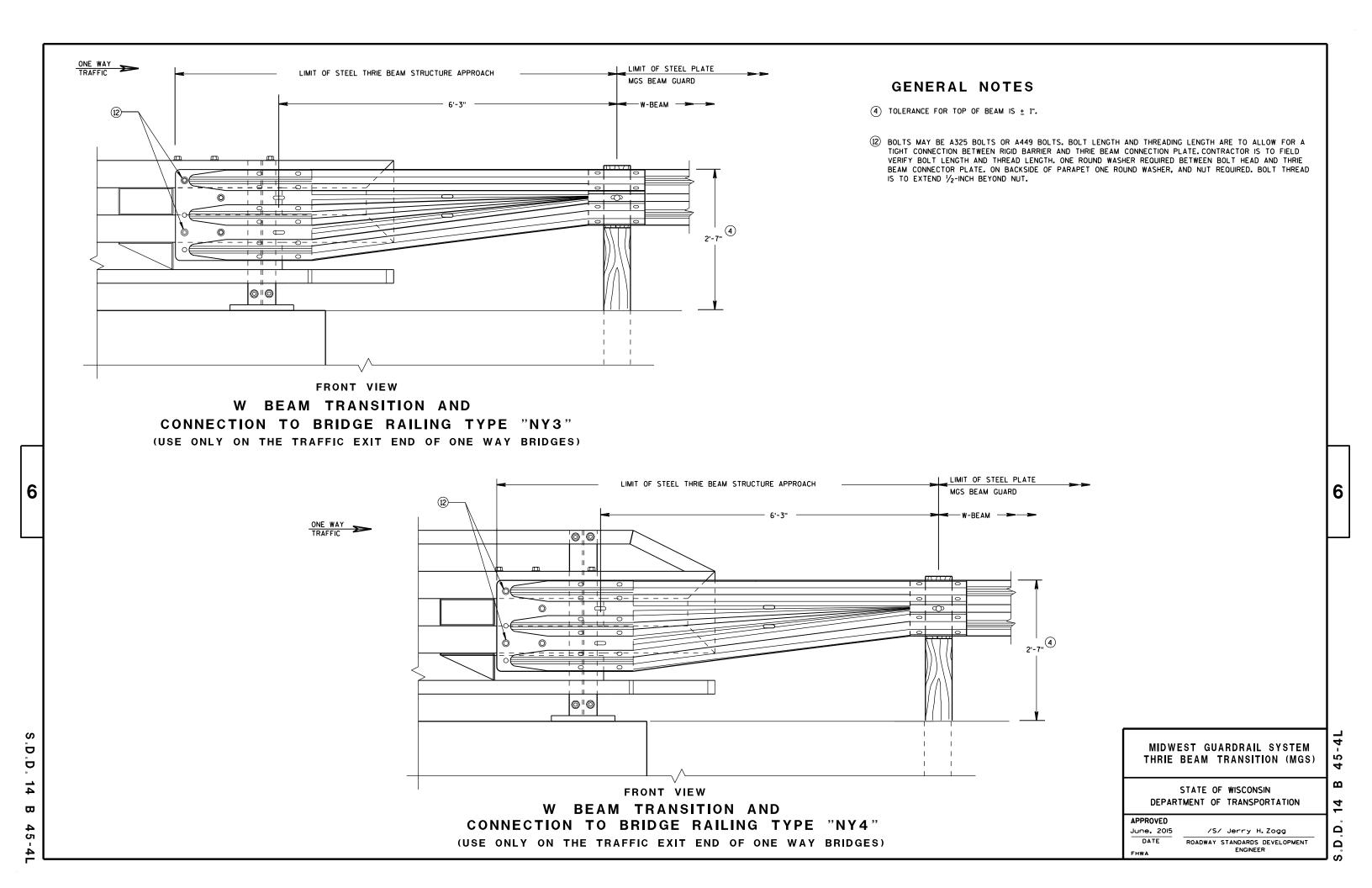
APPROVED

/S/ Jerry H. Zogg June, 2015 DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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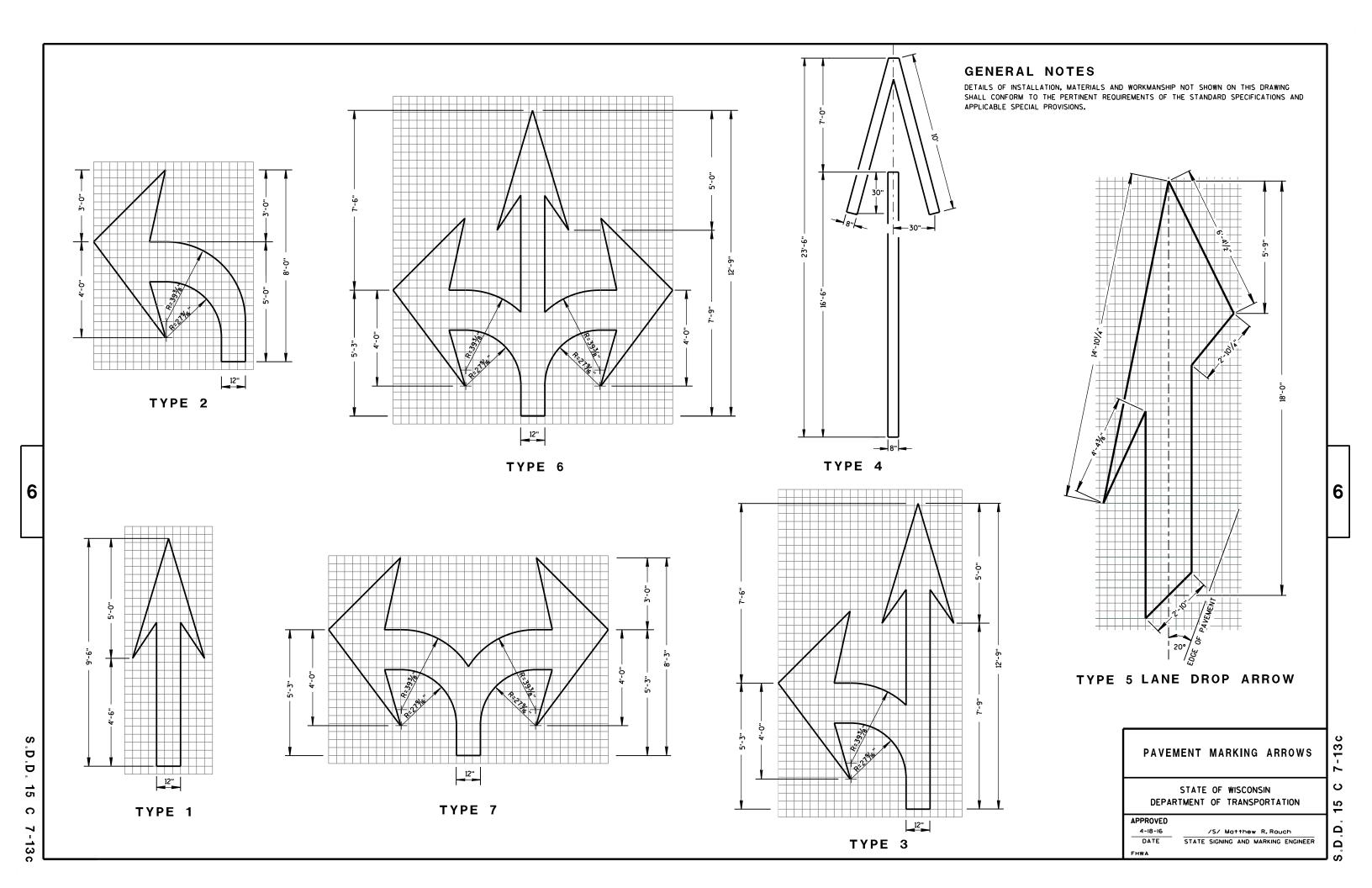
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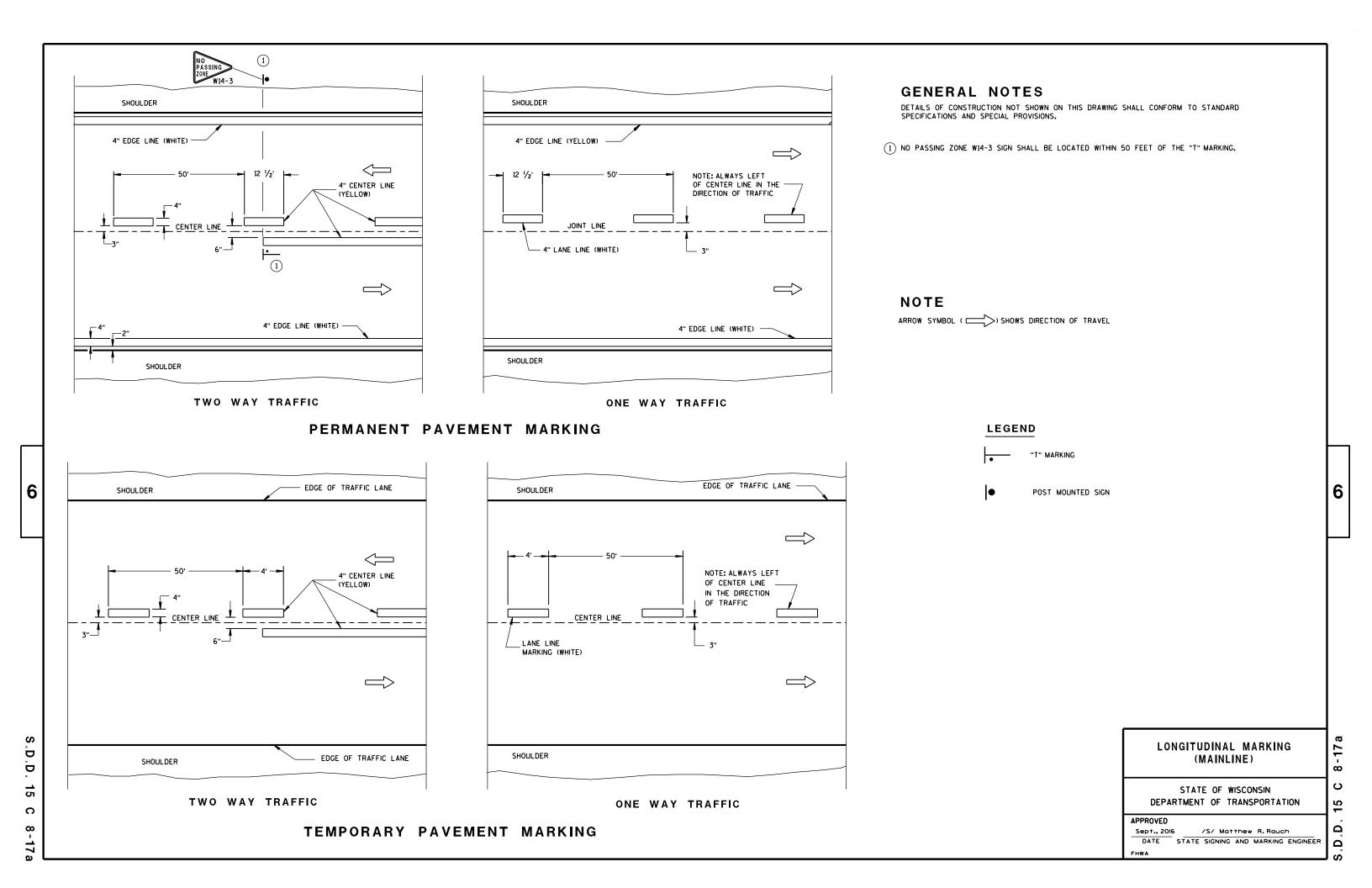
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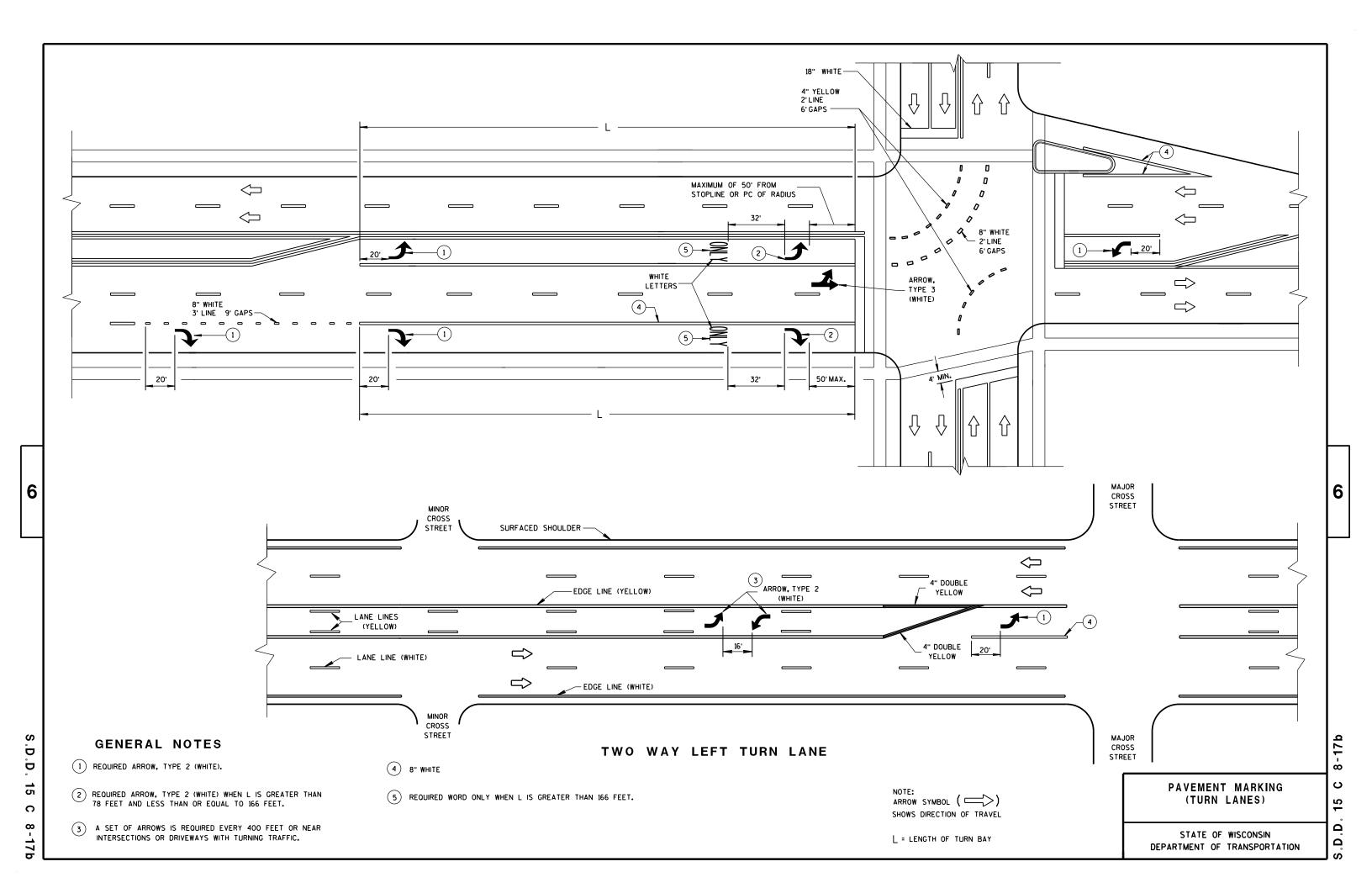


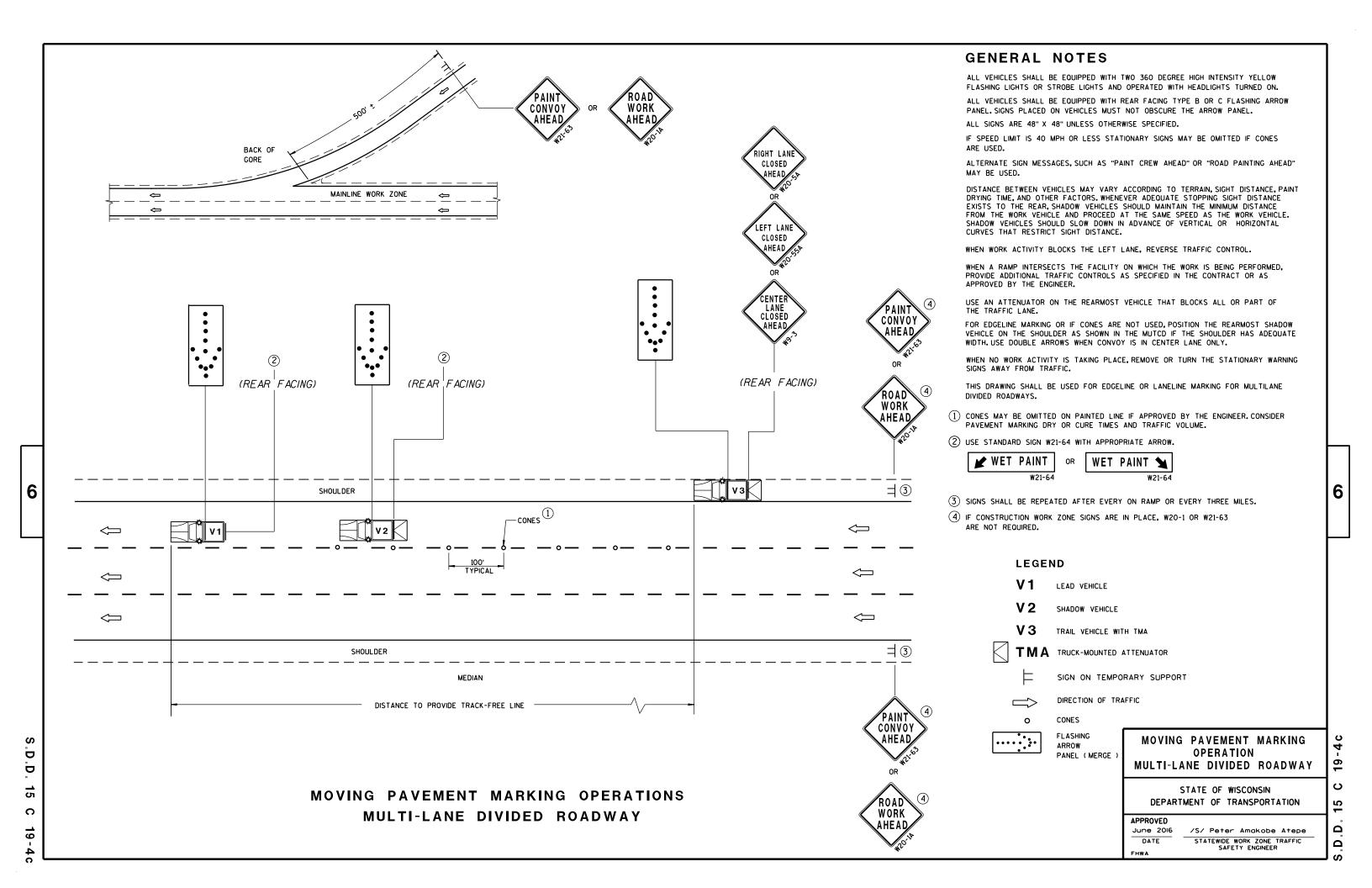


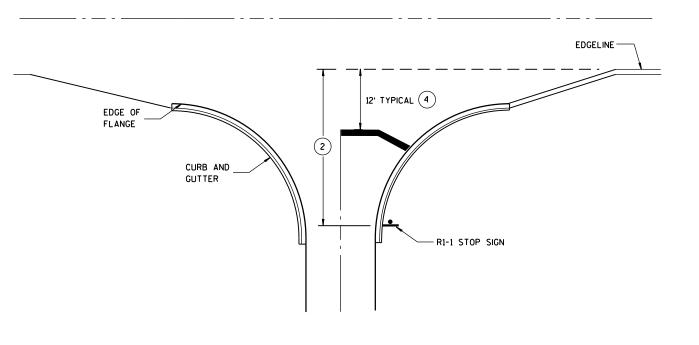












8" CHANNELIZATION WHITE

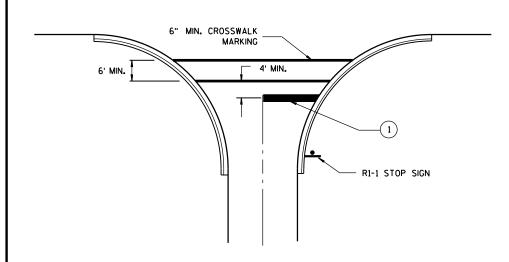
FLANGELINE (EXTENSION)

4" WHITE EDGELINE

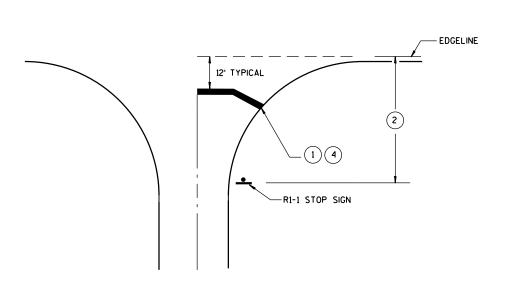
RI-1 STOP SIGN

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

- 1 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- (2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
- (3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
4-18-2016	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MARKING ENGINEER

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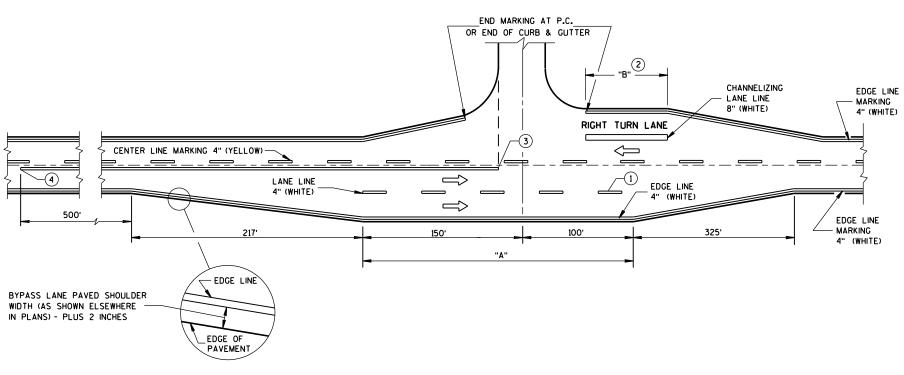
MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

- 1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- 2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- (3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
- (4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL (>>) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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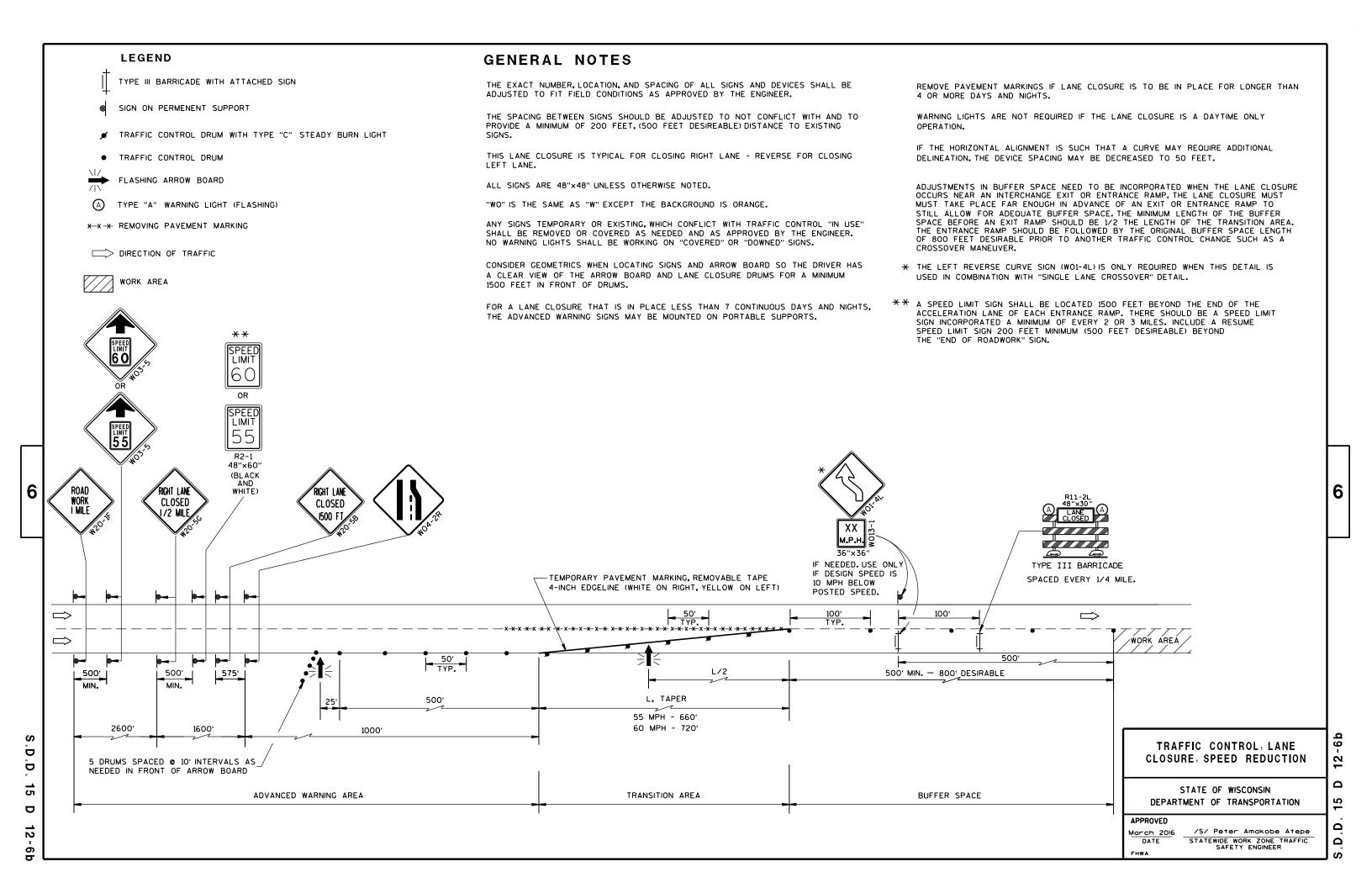
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GENERAL NOTES LEGEND THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. 4 OR MORE DAYS AND NIGHTS. TYPE III BARRICADE WITH ATTACHED SIGN THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION. SIGN ON PERMENENT SUPPORT IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING DELINEATION. THE DEVICE SPACING MAY BE DECREASED TO 50 FEET. LEFT LANE. TRAFFIC CONTROL DRUM ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST FLASHING ARROW BOARD "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE. MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" TYPE "A" WARNING LIGHT (FLASHING) THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS. * X -X REMOVING PAVEMENT MARKING CROSSOVER MANEUVER. CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS * THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL. DIRECTION OF TRAFFIC 1500 FEET IN FRONT OF DRUMS. FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. 6 6 WORK CLOSED CLOSED I MILE 1500 F XX м.Р.н 36"×36" IF NEEDED. USE ONLY TYPE III BARRICADE IF DESIGN SPEED IS TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE SPACED EVERY 1/4 MILE. 10 MPH BELOW 4-INCH EDGELINE (WHITE ON RIGHT, YELLOW ON LEFT) POSTED SPEED. 100' \Rightarrow \Rightarrow \Longrightarrow WORK AREA 50' L/2 500' MIN. - 800' DESIRABLE 575 L. TAPER 500 50 MPH - 600' 55 MPH - 660' 2600' 1600' 1000' 60 MPH - 720' TRAFFIC CONTROL, 9 65 MPH - 780' D 70 MPH - 840' LANE CLOSURE 5 DRUMS SPACED @ 10' INTERVALS AS 2 Ö NEEDED IN FRONT OF ARROW BOARD 15 Δ STATE OF WISCONSIN ADVANCED WARNING AREA TRANSITION AREA BUFFER SPACE DEPARTMENT OF TRANSPORTATION D **APPROVED** /S/ Peter Amakobe Atepe 2 March 2016 STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER Ω 6 FHWA



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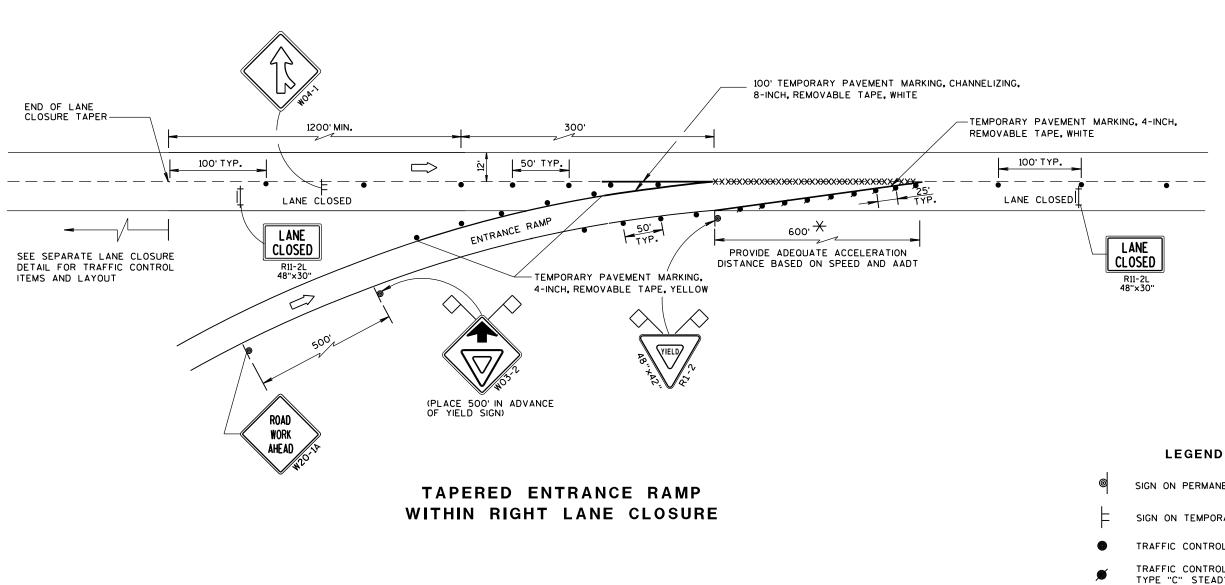
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GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE, OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING. REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

X CONSULT WITH REGIONAL WORK ZONE ENGINEER IF NEED TO REDUCE LENGTH EXISTS.

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

> TYPE III BARRICADE WITH ATTACHED SIGN

FLAGS, 16" × 16" MIN., (ORANGE)

DIRECTION OF TRAFFIC

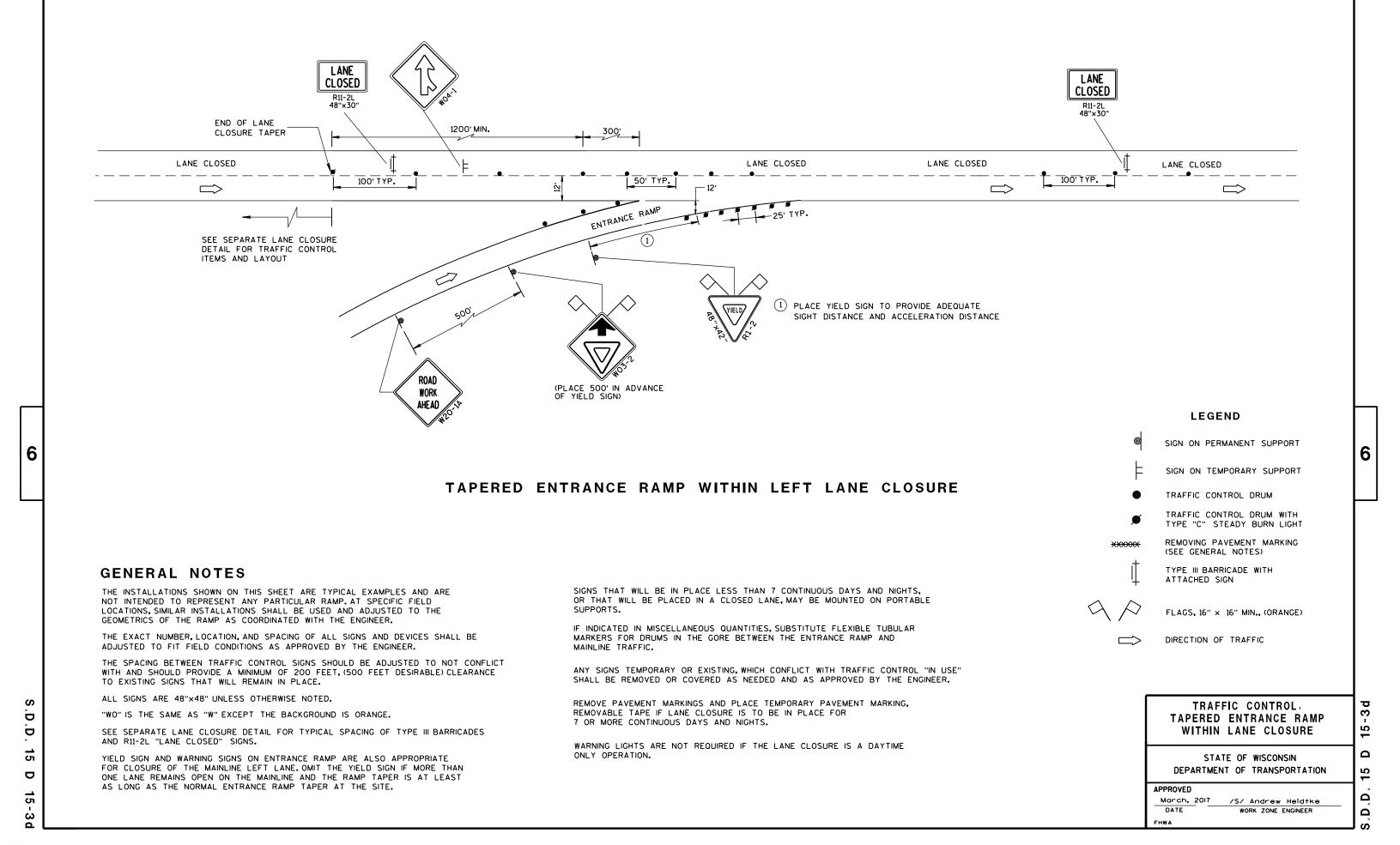
TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE

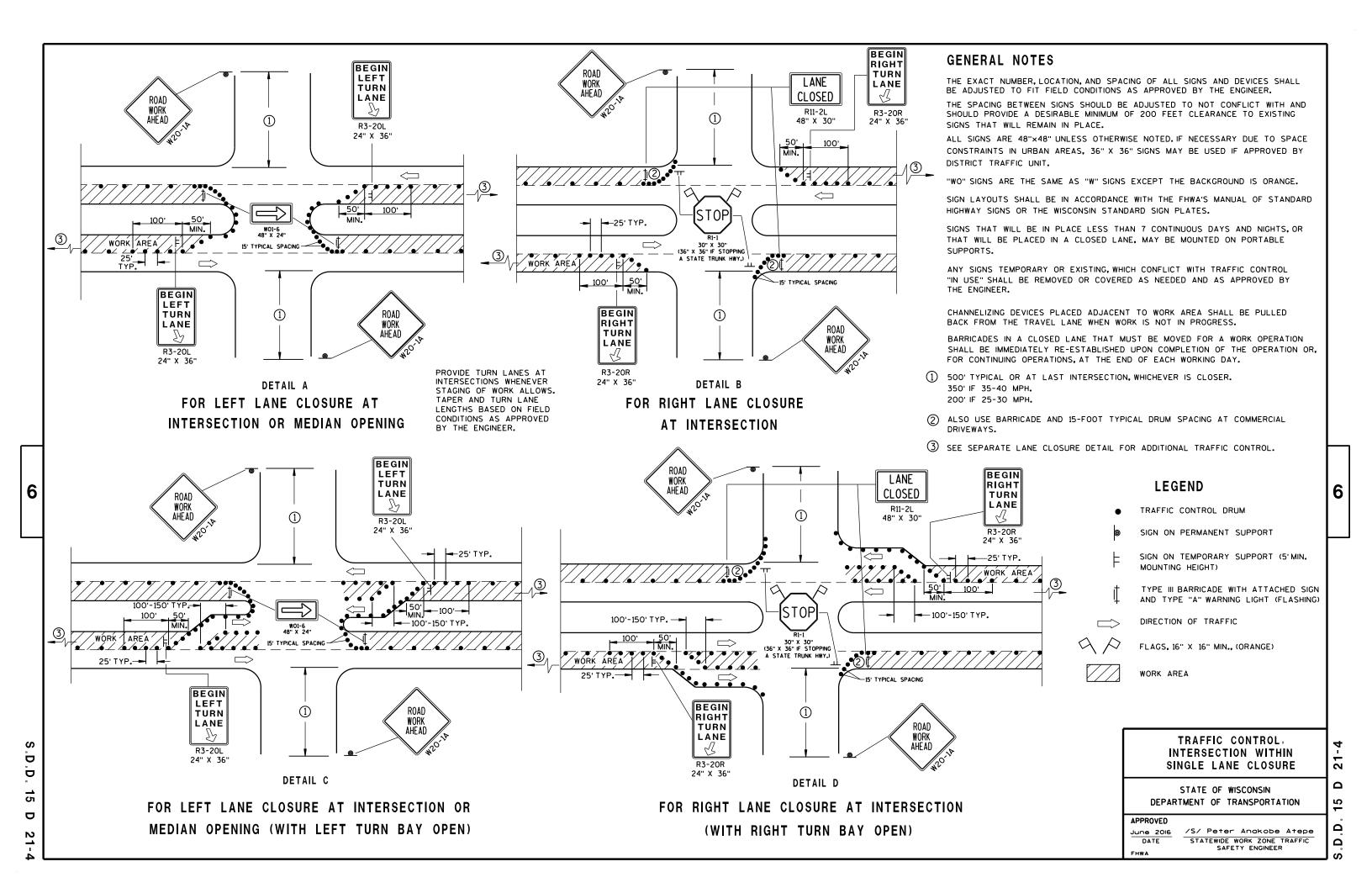
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

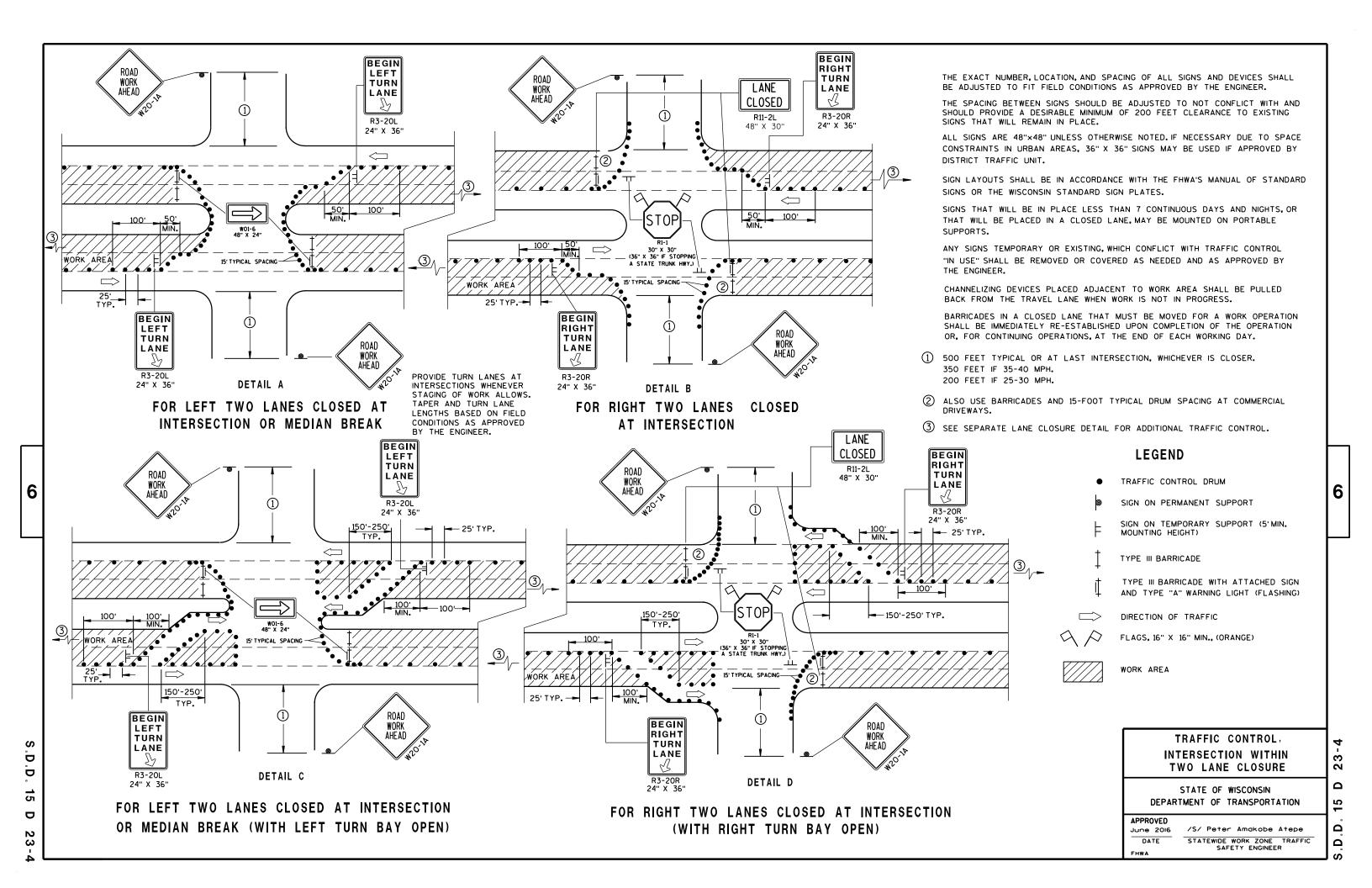
APPROVED March, 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

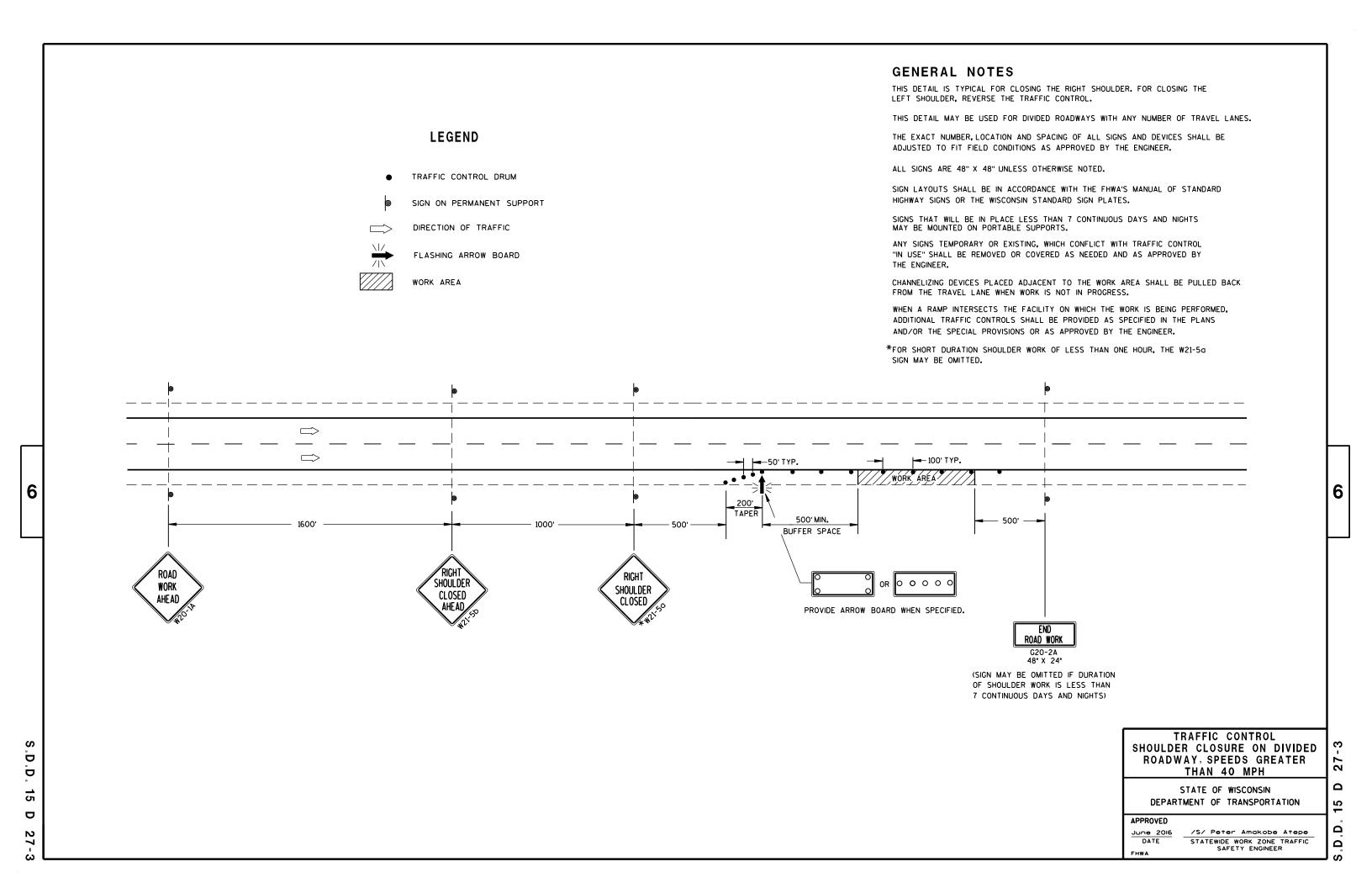
Ω

6









D

15

D

38-

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 - 1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 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

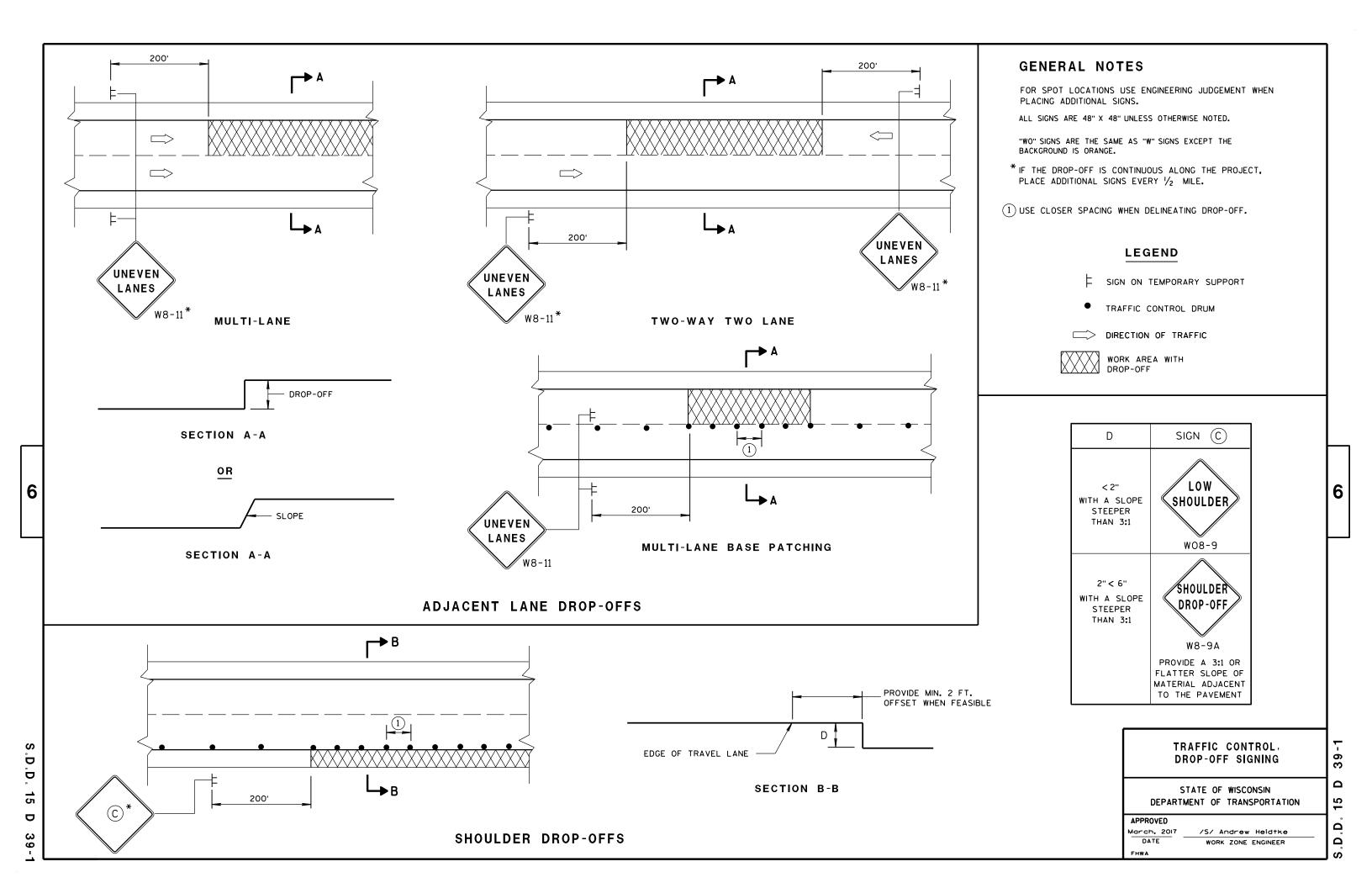
APPROVED Feb. 2015

/S/ Travis Feltes DATE STATE TRAFFIC ENGINEER OF DESIGN FHWA

6

38-1b

Ω



1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. __A2-15.8

DATE 2/06/14

SHEET NO:

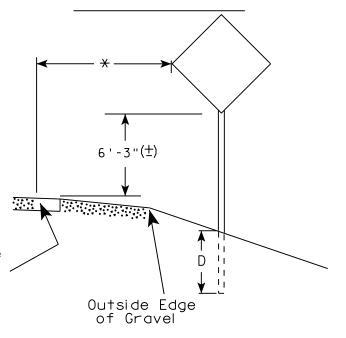
urban area

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

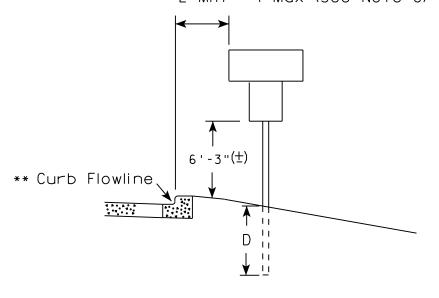
** Curb Flowline

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 (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:



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:

| | |



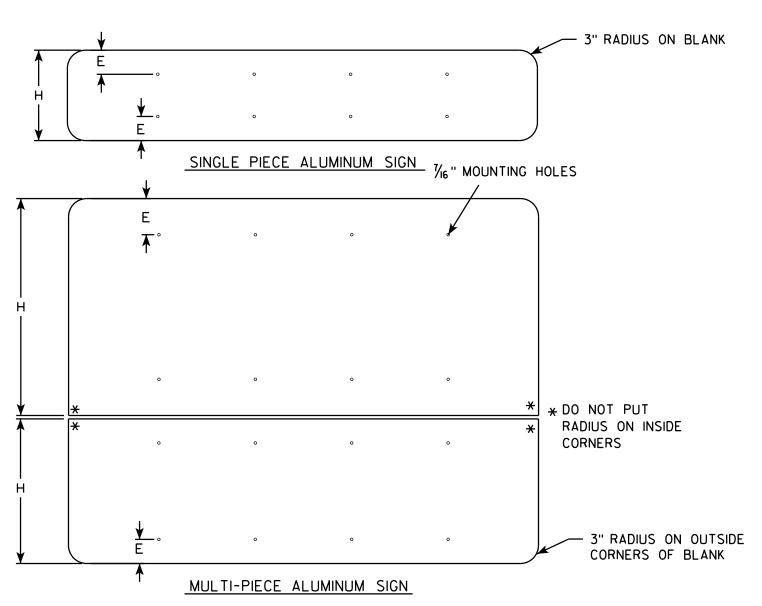
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

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

For State Traffic Engineer

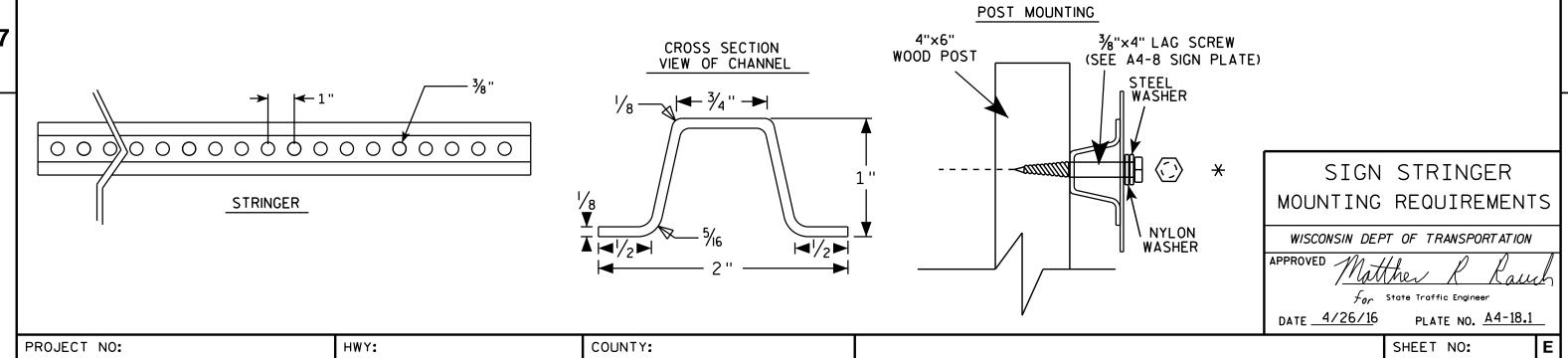




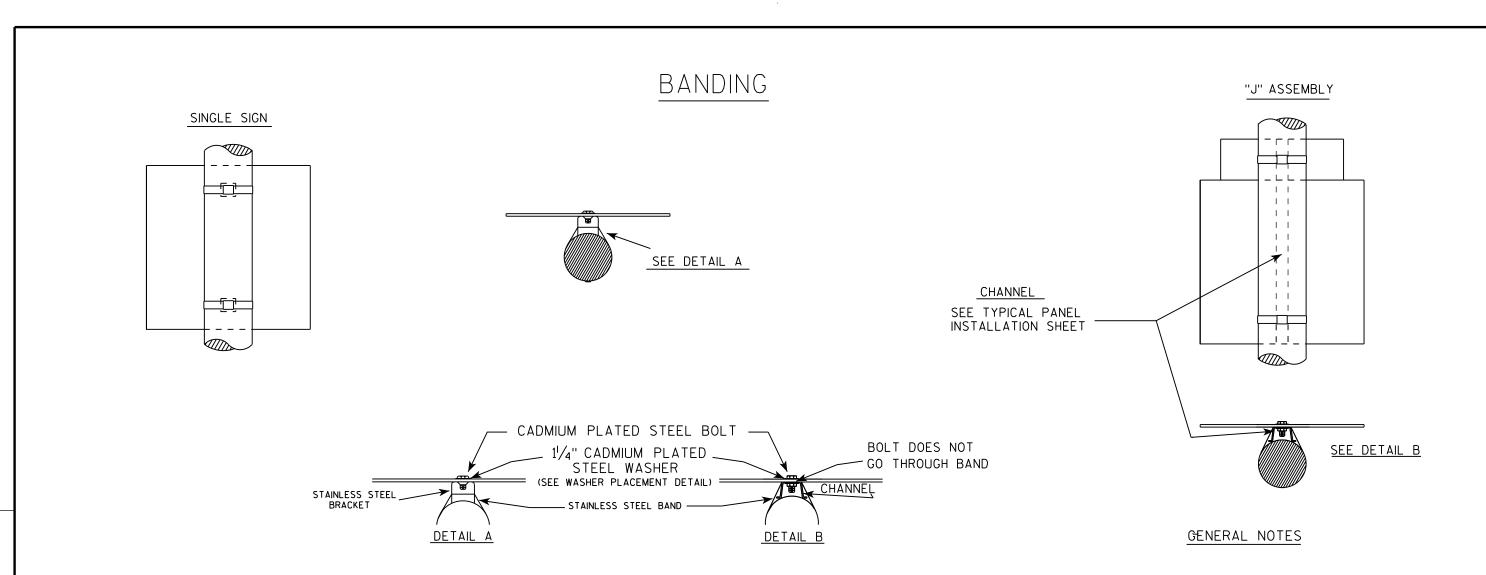
GENERAL NOTES

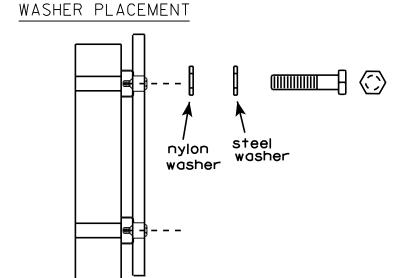
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE $\frac{7}{16}$ " DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING				NTING OLES			
78"	72"	2	16''	15''	31''	47''	63"			
84''	72"	2	17''	161/2"	331/2"	501/2"	6 7 1/21			
90"	7 2"	2	18''	18''	36''	54''	72''			
96"	90"	2	19''	191/2"	381/2''	571/2"	761/21			
102"	90"	2	20"	21''	41''	61''	81''			
108''	90"	2	21''	221/21	' 43 ^l / ₂ ''	641/2"	851/21	1		
114''	108''	3	15''	12''	2 7 ''	42"	5 7 "	7 2"	87"	102"
120''	108''	3	16''	12''	28''	44''	60"	76"	92"	108''
126"	108''	3	17''	12''	29"	46''	63"	80"	97"	114''
132"	126''	3	18''	12''	30"	48"	66"	84"	102"	120''
138''	126''	3	19''	12''	31''	50"	69"	88"	107''	126"
144''	126''	3	20"	12''	32"	52"	72"	92"	112''	132"



PLOT BY: mscj9h





HWY:

WASHERS (ALL POSTS) -

COUNTY:

1-1/4" O.D. X3/8" I.D. X1/16" STEEL 1-1/4" O.D. X3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

PLOT BY: mscsja

- 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.

STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 8/16/13

SHEET NO:

State Traffic Engineer

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A59.DGN

PROJECT NO:

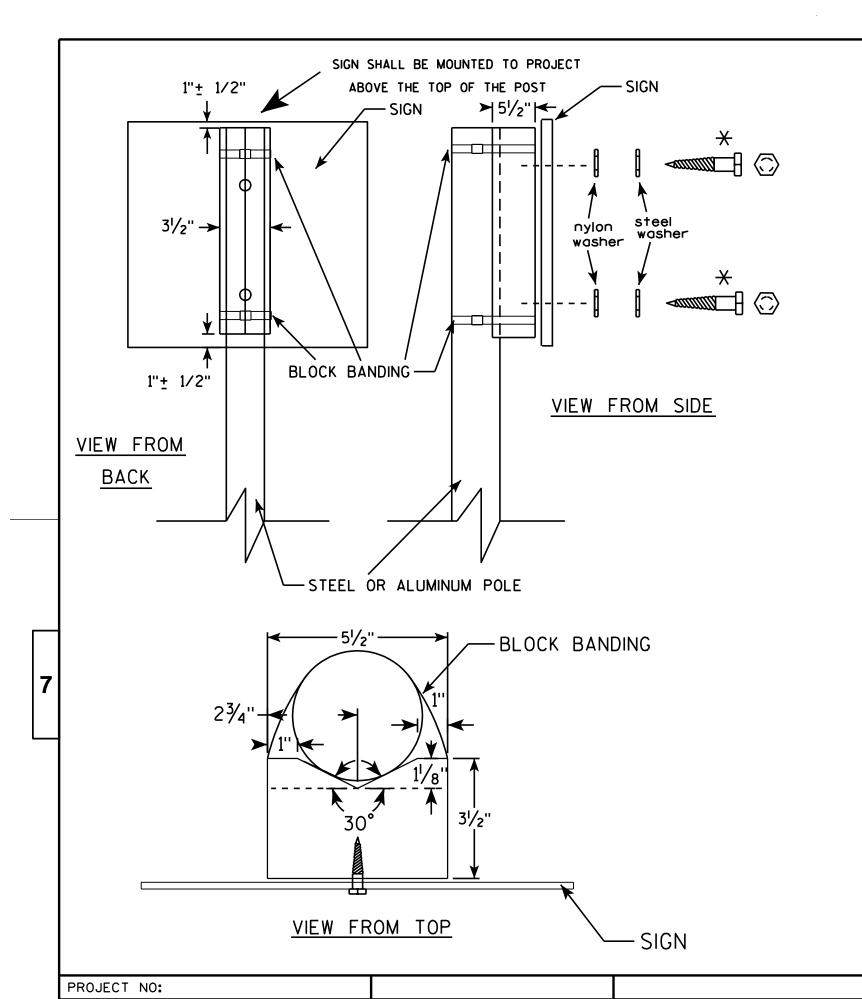
PLOT DATE: 16-AUG-2013 13:27

PLOT NAME :

PLOT SCALE: 33.740899:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. A5-9.3



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, 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, or
 - b. Cadmium plated in accordance with ASTM Designation: B 766 TYPE 3, Class 12, or
 - c. 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 11/4" O.D. X 3/8" I.D. X 1/16"
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

X LAG BOLTS SHALL BE 3/8" X 21/2"

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

For State Traffic Engineer

DATE 7/12/07

PLATE NO. A5-10.1

SHEET NO:

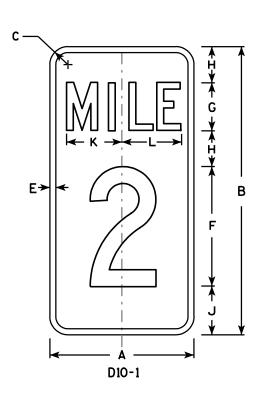
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

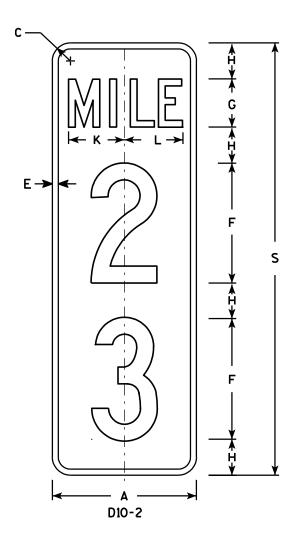
2. Color:

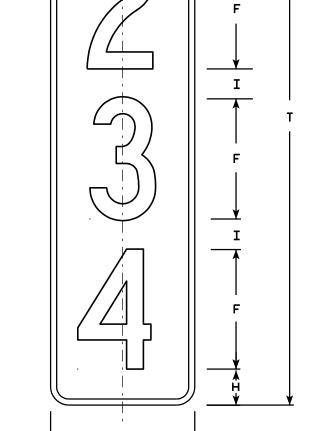
Background - Green

Message - White - Type H Reflective

- 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.
- Optically adjust numerals about the centerline of the sign to achieve proper balance.







D10-3

Metric equivalent for this sign is:

	11113 31911 13.
PHY. SIZE	
12 X 24	300 mm X 600 mm
12 X 36	300 mm X 900 mm
12 X 48	300 mm X 1200 mm

		•				•																				
SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z
1																										
2																										
3																										
4	12	24	1 1/2		1/2	10	4	3	2 1/2	4	4 5/8	4 1/8		·					36	48						
5	12	24	1 ½		1/2	10	4	3	2 1/2	4	4 %	4 1/8							36	48						
														,						_						

STANDARD SIGN D10-1 , D10-2 & D10-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J Spany
for Director, Office of Traffic

DATE 1/16/02 PLATE NO. D10-3.2

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\D103.DGN

PROJECT NO:

PLOT DATE: 28-SEP-2005 08:20

PLOT BY : DOTDZK

HWY:

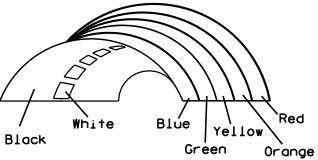
Background Colors of Symbol*

Z F Z

A F X A

₽ 4

* VARIES



*1/4" Black Border between each color of rainbow and border of rainbow

COUNTY:

NOTES

- 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 5)

- 3. Message Series (See Note 6)
- 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. Border Blue

Line 1 - Red

Line 2 - Black

Line 3-5 - Blue

6. Line 1 - Dutch 8011L

Line 2 - Series E

Line 3-5 - Series C

7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

STANDARD SIGN I55-56

For State Traffic Engineer

DATE 4/27/11 PLATE NO. 15!

ATE 4/27/11 PLATE NO. 155-56.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\I5556.DGN

PROJECT NO:

PLOT DATE: 27-APR-2011 10:05

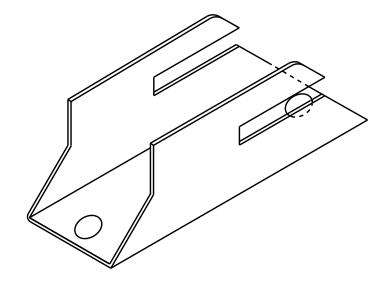
PLOT BY: mscj9h

PLOT NAME :

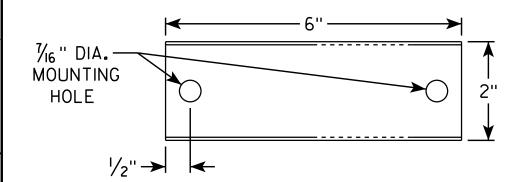
PLOT SCALE: 7.945391:1.000000

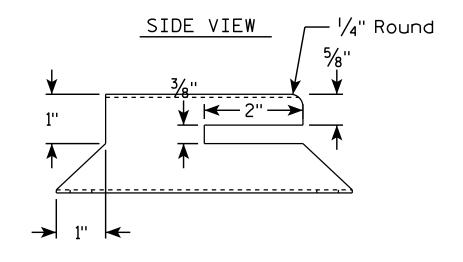
945391:1.000000 WISDOT/CADDS SHEET 42

ISOMETRIC VIEW



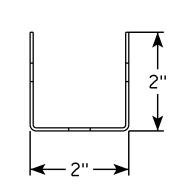
TOP VIEW





HWY:

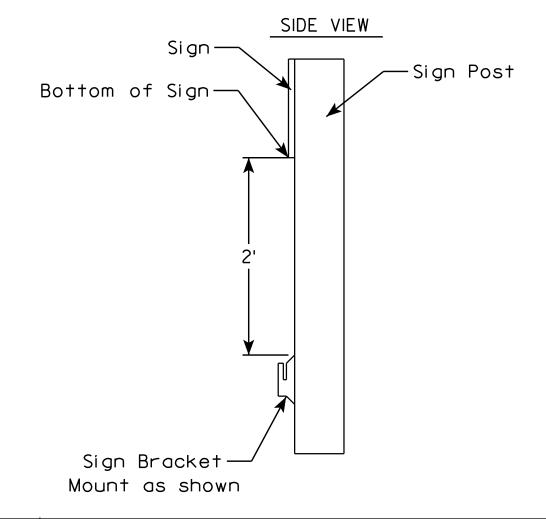
END VIEW



COUNTY:

NOTES

- Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
- 2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
- 3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
- 4. Shall have rounded edges with at least $\frac{1}{8}$ " radii.
- 5. Shall not have unrounded and uncoated metaledges which can contact the back surface of the roll-up sign.
- 6. Top of bracket shall be mounted 2' below the bottom of the 155-56 sign.
- 7. Cost of bracket and fastening hardware shall be incidental to the 155-56 sign.



SHEET NO:

PROJECT NO:

PLOT BY : mscj9h

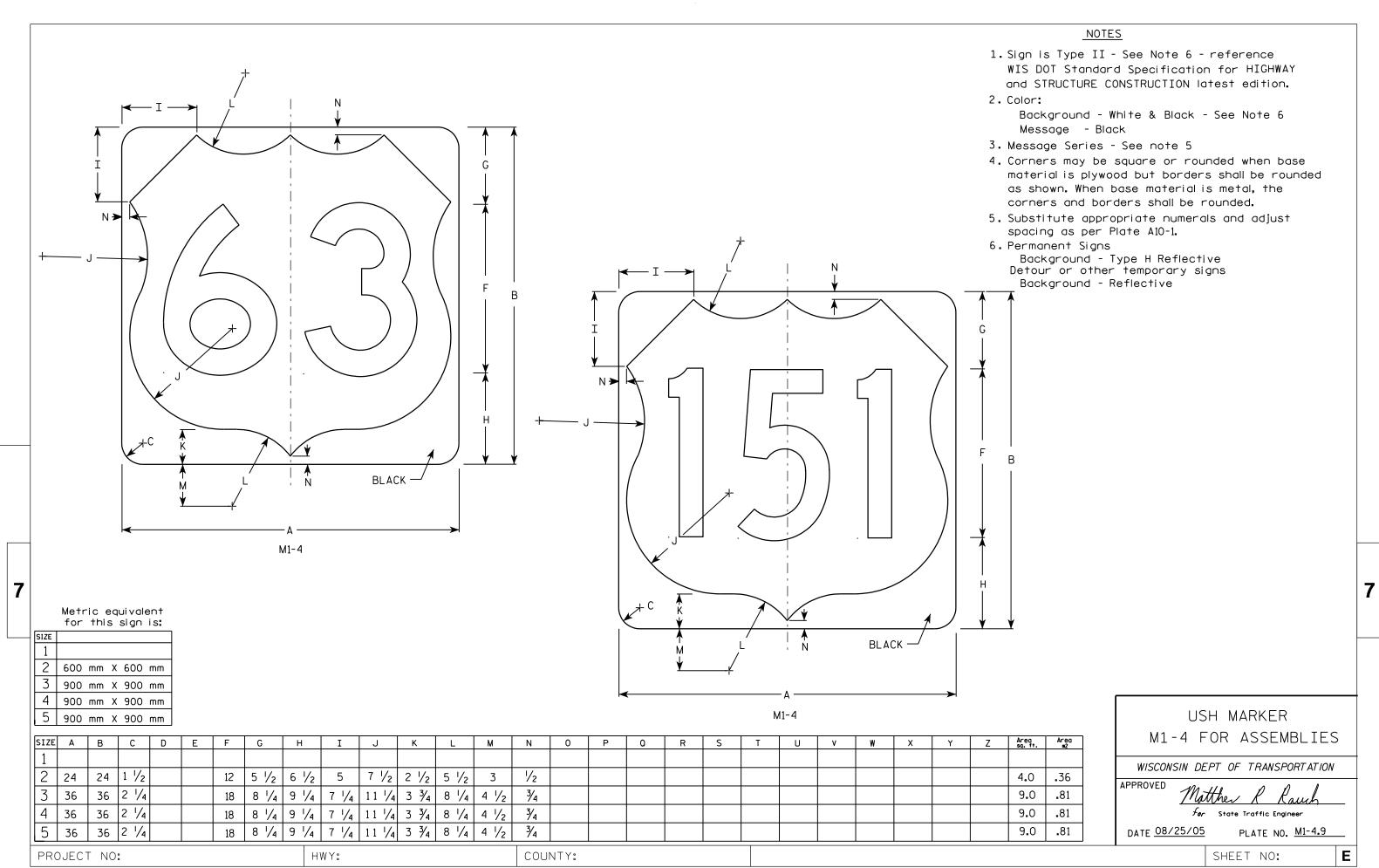
DATE 4/26/16

PLATE NO.155-56B.2

ROLLUP SIGN BRACKET

155-56B

WISCONSIN DEPT OF TRANSPORTATION



FILE NAME : C:\Users\Projects\tr_stdplate\M14.DGN

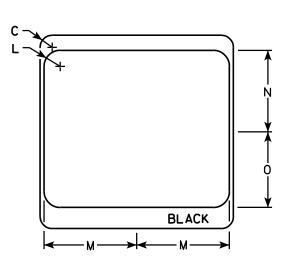
NOTES

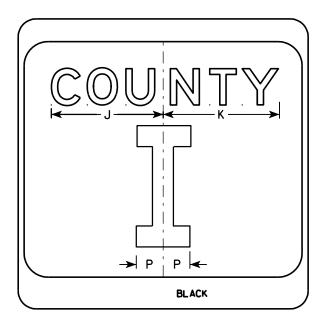
- 1. Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

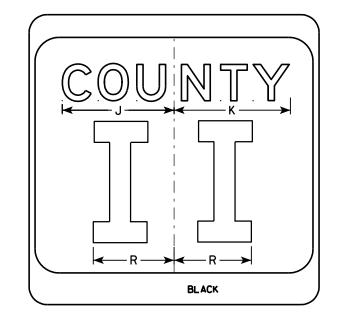
Background - White & Black - See Note 7 Message - Black

- 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. Message Series E for 1 letter. Message Series D for 2 letters unless message is too big then Series C. Message Series C for 3 letters unless message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

Background - Type H Reflective Detour or temporary Signs Background - Reflective







SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 %	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
																			_								

COUNTY:

CTH MARKER M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

FerState Traffic Engineer PLATE NO. M1-5A.8 DATE 9/27/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M15A.DGN

PROJECT NO:

BLACK

HWY:

M1-5A

PLOT DATE: 29-SEP-2011 11:25

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

NOTES

- 1. Sign is 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. M2-1 Background White

Message - Black

MB2-1 Background - Blue

Message - White

MK2-1 Background - Green

Message - White

MM2-1 Background - White

Message - Green

MN2-1 Background - Brown

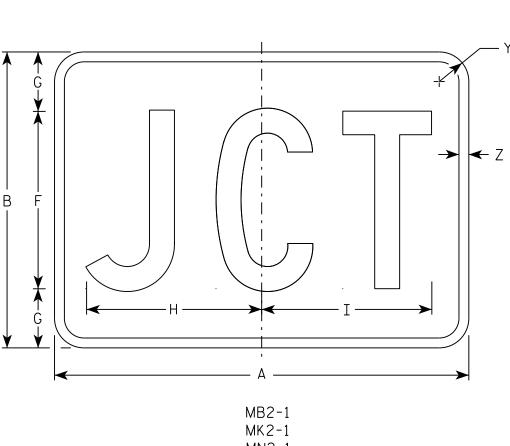
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

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	Υ	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8	8 %																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch f_{or} State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M21 DGN

PROJECT NO:

M2-1

HWY:

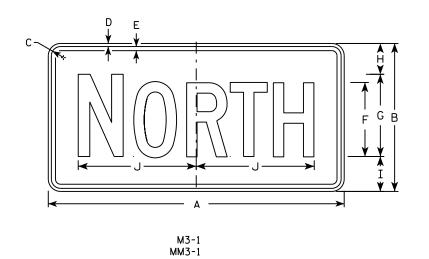
MM2-1

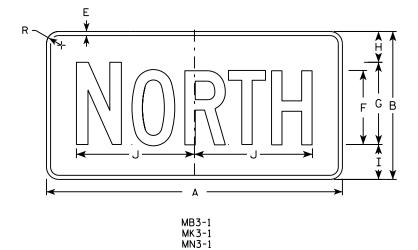
MP2-1

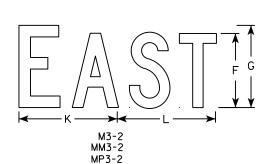
PLOT DATE . 01-DEC-2015 17:54

PLOT BY . \$\$ Diotuser \$\$ PLOT NAME :

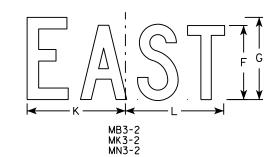
PLOT SCALE • 4 864603•1 000000

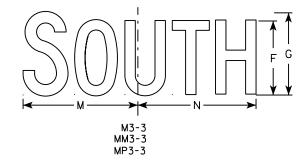


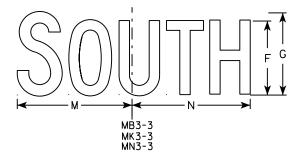


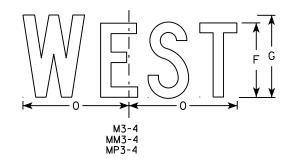


MP3-1

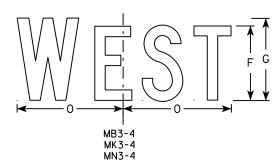








HWY:



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																											
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:

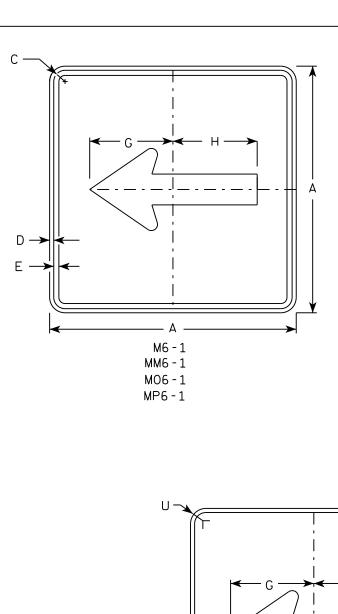
FILE NAME · C·\CAFfiles\Projects\tr stdnlote\M31 DCN

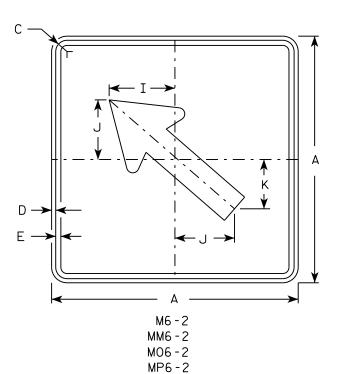
PROJECT NO:

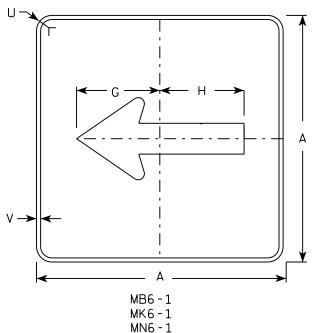
PLOT DATE . 01-DEC-2015 17:54

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

PLOT SCALE . 11 675051.1 000000

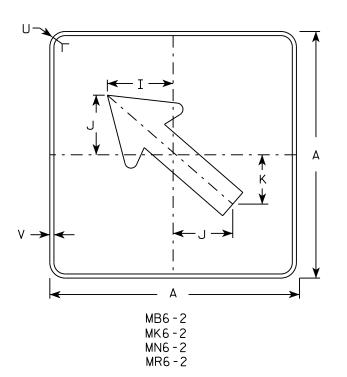






MR6-1

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

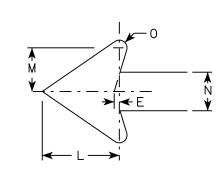
Message - Black

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 5

3. Message Series - C

PLOT NAME :

- 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 border strip and word message are reflectorized red.

A	
	G
	\\ \ F \\ \ \ \
E	 B
D D	
R1-2	

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7 ⁄8	4	3 %																	2.71
25	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 %																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 %																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 %																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 1/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 1/8	5/8	2 3/8	2 1/4																	0.97

COUNTY:

STANDARD SIGN R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauch

 f_{or} State Traffic Engineer

3/14 PLATE NO. R1-2.12

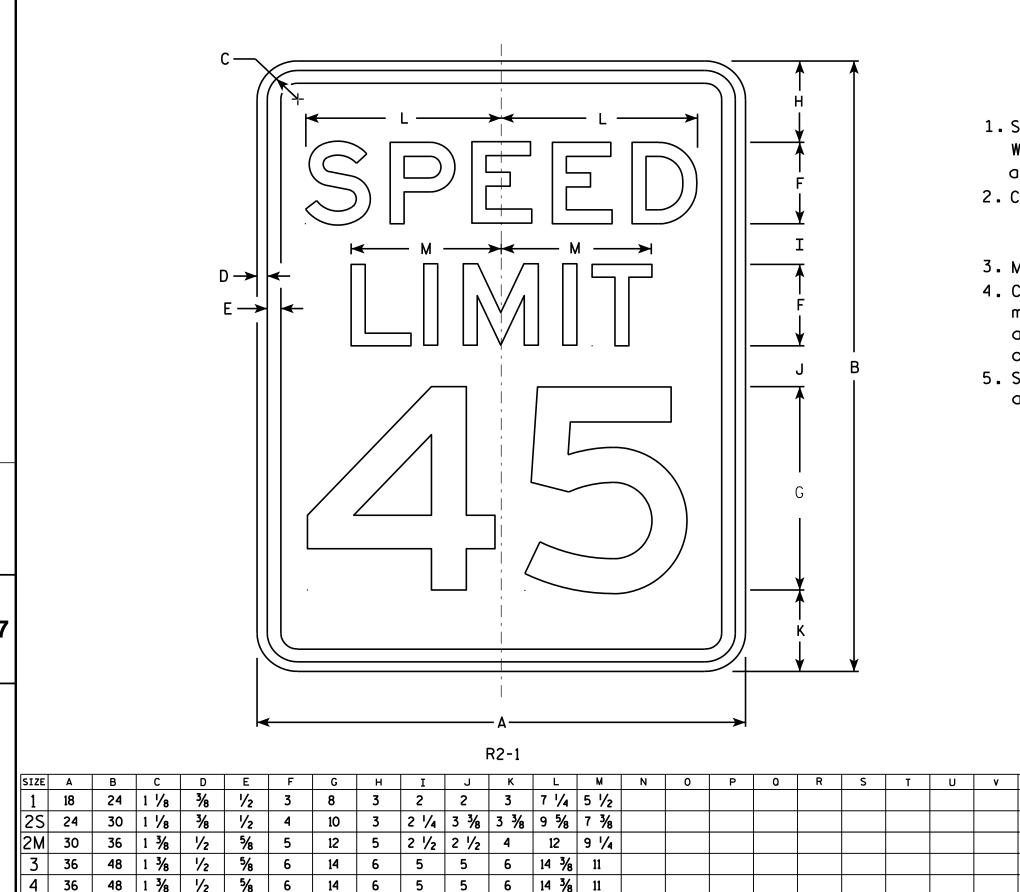
DATE 10/13/14 PLA

SHEET NO:

311221

PROJECT NO:

HWY:



4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

NOTES

- 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.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

Matther R Raus For State Traffic Engineer PLATE NO. R2-1.13

DATE <u>5/26/1</u>0

SHEET NO:

2 1/4

60

5

48

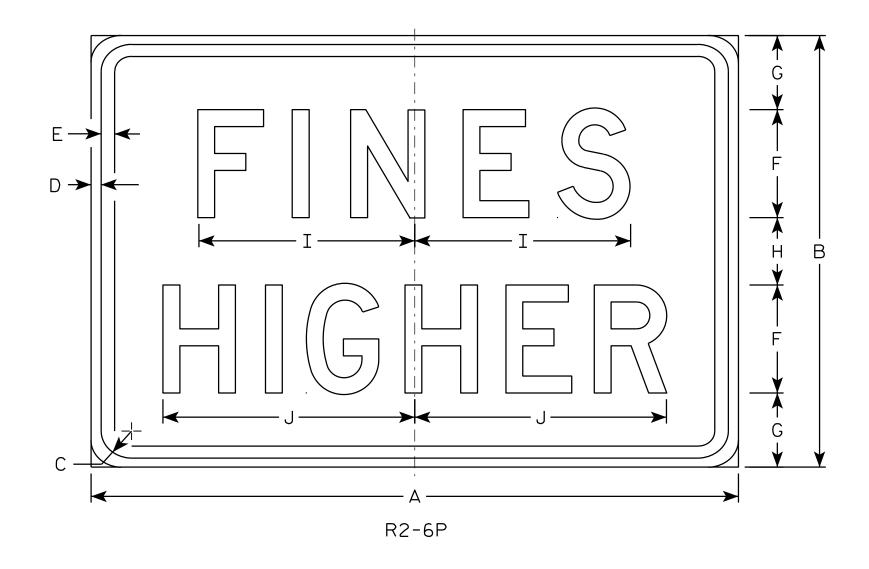
PROJECT NO:

PLOT NAME :

- 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.



Α	В	С	D	Ε	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
24	18	1 1/8	3∕8	3/8	4	3 1/2	3	7 %	9 1/4																	3.0
24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 %	9 1/4																	3.0
36	24	1 1/8	3∕8	1/2	6	4 1/8	3 3/4	12	14																	6.0
36	24	1 1/8	3∕8	1/2	6	4 1/8	3 3/4	12	14																	6.0
48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0
	24 36 36	24 18 24 18 36 24 36 24	24 18 1 ½8 24 18 1 ½8 36 24 1 ½8 36 24 1 ½8	24 18 1 ½ 3/8 24 18 1 ½ 3/8 36 24 1 ½ 3/8 36 24 1 ½ 3/8	24 18 1 ½ 3½ 3½ 24 18 1 ½ 3½ 3½ 36 24 1 ½ 3½ ½ 36 24 1 ½ 3½ ½	24 18 1 ½ 3½ 3½ 4 24 18 1 ½ 3½ 3½ 4 36 24 1 ½ 3½ ½ 6 36 24 1 ½ 3½ ½ 6	24 18 1 ½ 3/8 3/8 4 3 ½ 24 18 1 ½ 3/8 3/8 4 3 ½ 36 24 1 ½ 3/8 ½ 6 4 ½ 36 24 1 ½ 3/8 ½ 6 4 ½	24 18 1 ½ 3/8 3/8 4 3 ½ 3 24 18 1 ½ 3/8 3/8 4 3 ½ 3 36 24 1 ½ 3/8 ½ 6 4 ½ 3 ¾ 36 24 1 ½ 3/8 ½ 6 4 ½ 3 ¾	24 18 1 ½ 3½ 3½ 4 3 ½ 3 7 ½ 24 18 1 ½ 3½ 3½ 3 7 ½ 36 24 1 ½ 3½ 3½ 4 3 ½ 3 7 ½ 36 24 1 ½ 3½ ½ 6 4 ½ 3 ¾ 12 36 24 1 ½ 3½ ½ 6 4 ½ 3 ¾ 12	24 18 1 ½ 3½ 3½ 4 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3½ 3 7 ½ 9 ¼ 36 24 1 ½ 3½ 4 3½ 3 7 ½ 9 ¼ 36 24 1 ½ 3½ ½ 6 4 ½ 3 ¾ 12 14 36 24 1 ½ 3½ ½ 6 4 ½ 3 ¾ 12 14	24 18 1 ½ 3½ 3 7 ½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 8 4 3 ½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 36 24 1 ½ 3½ 6 4 ½ 3 ¾ 12 14 36 24 1 ½ 3½ 6 4 ½ 3 ¾ 12 14	24 18 1 1/8 3/8 3/8 4 3 1/2 3 7 5/8 9 1/4 24 18 1 1/8 3/8 3/8 4 3 1/2 3 7 5/8 9 1/4 36 24 1 1/8 3/8 1/2 6 4 1/8 3 3/4 12 14 36 24 1 1/8 3/8 1/2 6 4 1/8 3 3/4 12 14	24 18 1 1/8 3/8 3/8 4 3 1/2 3 7 5/8 9 1/4 24 18 1 1/8 3/8 3/8 4 3 1/2 3 7 5/8 9 1/4 36 24 1 1/8 3/8 1/2 6 4 1/8 3 3/4 12 14 36 24 1 1/8 3/8 1/2 6 4 1/8 3 3/4 12 14	24 18 1 ½ 3½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3½ 4 3 ½ 3 7 ½ 9 ¼ 36 24 1 ½ 3½ 6 4 ½ 3 ¾ 12 14 36 24 1 ½ 3½ 6 4 ½ 3 ¾ 12 14	24 18 1 ½ 3½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3½ 4 3 ½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3½ 4 3 ½ 12 14 36 24 1 ½ 3½ 3½ 6 4 ½ 3 ¾ 12 14	24 18 1 ½ 3½ 4 3 ½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3½ 4 3 ½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3½ 4 3 ½ 12 14 36 24 1 ½ 3½ 5 6 4 ½ 3 ¾ 12 14	24 18 1 1/8 3/8 3/8 4 3 1/2 3 7 5/8 9 1/4 24 18 1 1/8 3/8 3/8 4 3 1/2 3 7 5/8 9 1/4 36 24 1 1/8 3/8 1/2 6 4 1/8 3 3/4 12 14 36 24 1 1/8 3/8 1/2 6 4 1/8 3 3/4 12 14	24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3½ 9 ¼ 36 24 1 ½ 3½ 3½ 12 14 36 24 1 ½ 3½ 1½ 3¾ 12 14 36 24 1 ½ 3½ 1½ 12 14	24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 36 24 1 ½ 3½ 3½ 12 14 36 24 1 ½ 3½ 1½ 12 14 36 24 1 ½ 3½ 1½ 12 14	24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 36 24 1 ½ 3½ 6 4 ½ 3 ¾ 12 14 36 24 1 ½ 3½ ½ 6 4 ½ 3 ¾ 12 14	24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 36 24 1 ½ 3½ 4 3 ½ 12 14 36 24 1 ½ 3½ 1/2 6 4 ½ 3 ¾ 12 14 36 24 1 ½ 3½ 1/2 6 4 ½ 3 ¾ 12 14	24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 36 24 1 ½ 3½ 3½ 12 14 36 24 1 ½ 3½ ½ 6 4 ½ 3 ¾ 12 14 36 24 1 ½ 3½ ½ 6 4 ½ 3 ¾ 12 14	24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 36 24 1 ½ 3½ 3½ 12 14 36 24 1 ½ 3½ 1/2 6 4 ½ 3 ¾ 12 14 36 24 1 ½ 3½ 1/2 6 4 ½ 3 ¾ 12 14	24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 24 18 1 ½ 3½ 3 7 ½ 9 ¼ 36 24 1 ½ 3½ 3 12 14 36 24 1 ½ 3½ 3¾ 12 14 36 24 1 ½ 3½ 3¾ 12 14	24 18 1 ½ 3½ 3 7 ½ 9 ½ 24 18 1 ½ 3½ 3 7 ½ 9 ½ 24 18 1 ½ 3½ 3 7 ½ 9 ½ 36 24 1 ½ 3½ 3 12 14 36 24 1 ½ 3½ 3½ 12 14 36 24 1 ½ 3½ 3½ 12 14	24 18 1 ½ 3½ 3 7 ½ 9 ½ 24 18 1 ½ 3½ 3 7 ½ 9 ½ 24 18 1 ½ 3½ 3 7 ½ 9 ½ 36 24 1 ½ 3½ 3 12 14 36 24 1 ½ 3½ 3½ 12 14 36 24 1 ½ 3½ 3½ 12 14

COUNTY:

STANDARD SIGN R2-6P

WISCONSIN DEPT OF TRANSPORTATION

ROVED Matther R Rauch
For State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R26P.DGN

PROJECT NO:

HWY:

PLOT DATE: 20-DEC-2010 14:18

PLOT BY: dotsja

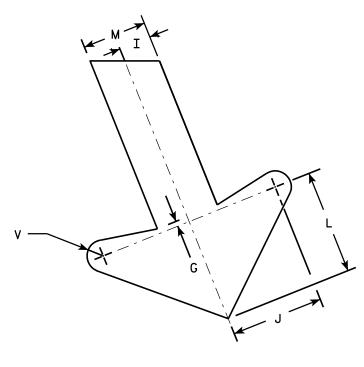
PLOT NAME :

PLOT SCALE: 5.338308:1.000000

- 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 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.



PLOT NAME :

SIZE	Α	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	Areg sq. ft.
1																											
2S	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	7 1/4	7 1/2		8 1/8	7 5/8	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	7 1/4	7 1/2		8 1/8	7 5/8	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 %	3	2 1/4	10 1/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

COUNTY:

R3-20L

HWY:

М

М

0

STANDARD SIGN R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

SHEET NO:

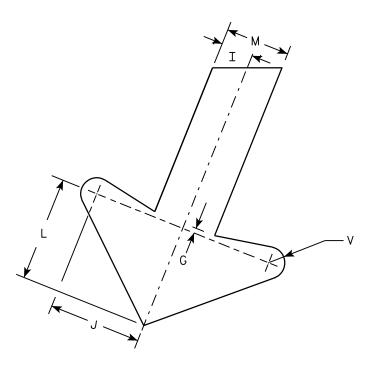
R3-20R

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

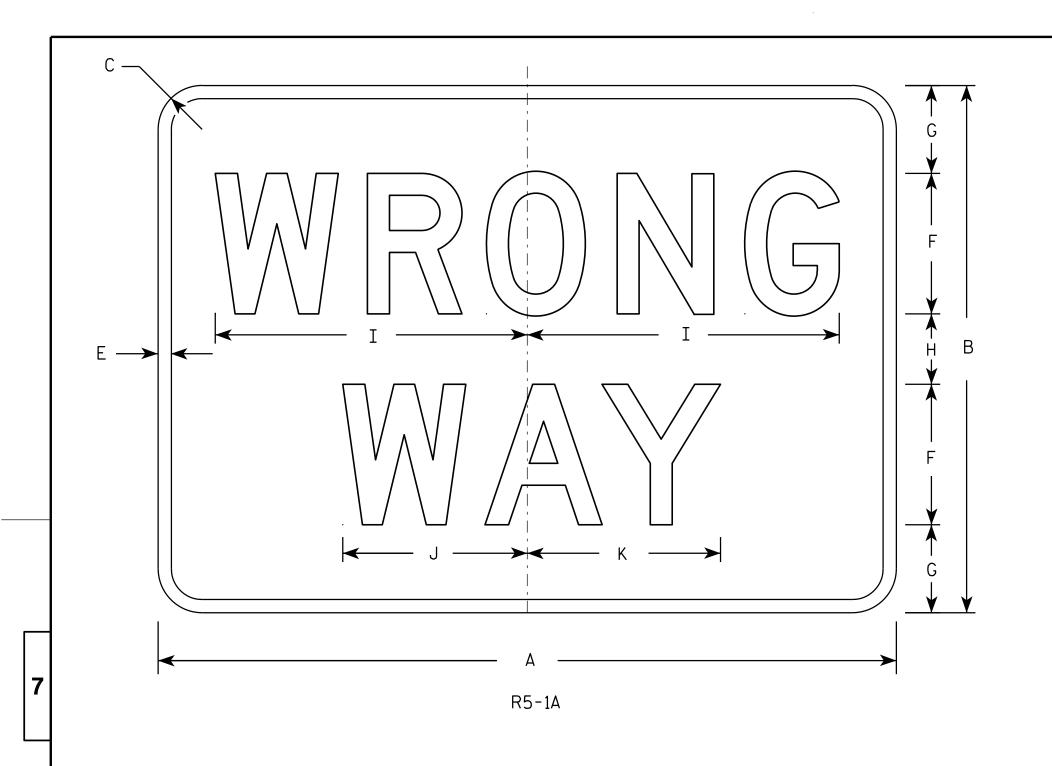
PLOT DATE: 15-OCT-2010 14:59 PLOT BY: do+sja

PLOT NAME :

PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

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



- 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 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	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 ½	6 %																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 1/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 ¾	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2	·	3/4	8	5	4	17 3/4	10 1/2	11	·		·													8.75

COUNTY:

STANDARD SIGN R5-1A

WISCONSIN DEPT OF TRANSPORTATION

Matther R Raud PLATE NO. R5-1A.2

DATE 12/17/10

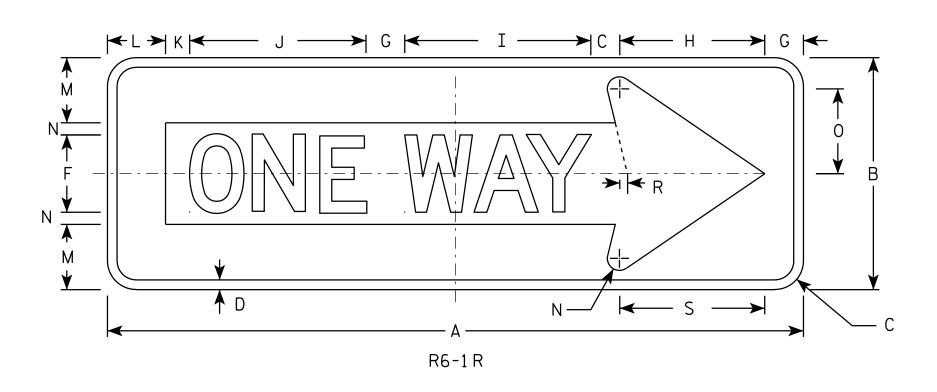
SHEET NO:

PROJECT NO:

HWY:

PLOT BY: dotsja

PLOT NAME :



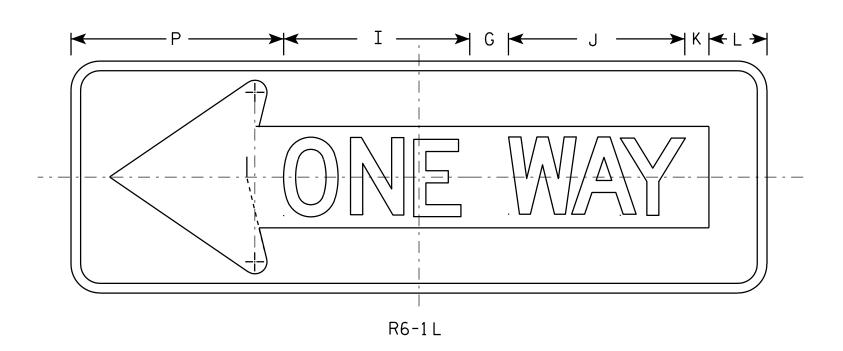
<u>NOTES</u>

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

Background - BLACK

Message - BLACK LEGEND & WHITE ARROW & BORDER

- 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	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Arec sq. f
1																											
25	36	12	1 1/2	1/2		4	2	7 1/2	9 %	9 1/8	1 1/4	3	3 %	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 %	1 1/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.
3	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 %	1 1/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.
4	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 %	1 1/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.
5																											

STANDARD SIGN R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

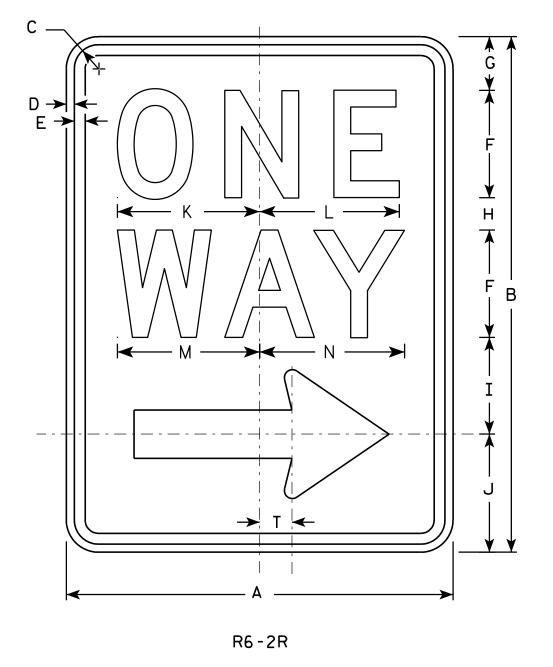
APPROVED

Matther & Kaure For State Traffic Engineer

DATE 12/17/10

O PLATE NO.R<u>6-1.2</u> SHEET NO:

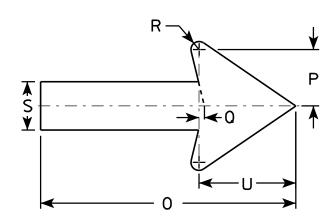
PLOT DATE: 17-DEC-2010 14:11 PLOT BY: dotsja



- 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 :

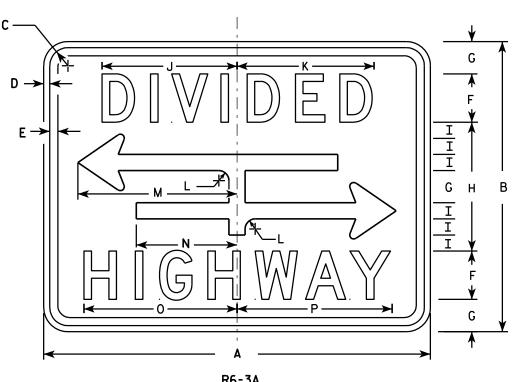
PLOT SCALE: 4.469282:1.000000

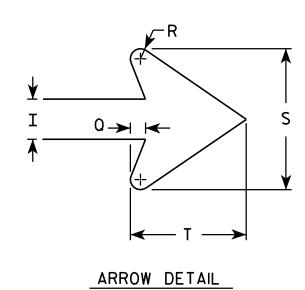
<u>NOTES</u>

- 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.





		_	
D٤	_	₹	٨

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8 8	3 1/2	5/8	9 %	6 1/4	9 1/2	9 %	3∕8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 ¾	1 3/8	10 1/2 1	10 %	1 / ₈	12 1/2	7 1/8	12 1/4	12 3/8	1/2	3/8	4 %	3 %							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 %	10 ¾	1 3/8	10 1/2 10	10 %	%	12 1/2	7 1/8	12 1/4	12 3/8	1/2	3/8	4 %	3 %							5.0
3																											
4																											
5								·																		·	

STANDARD SIGN R6-3 & R6-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer DATE 3/31/2011 PLATE NO. R6-3.5

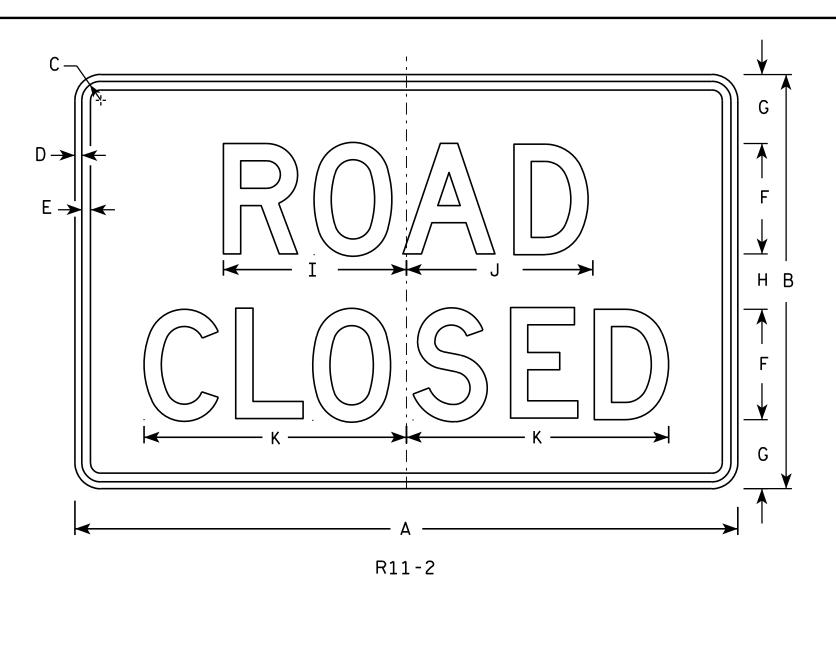
SHEET NO:

5.959043:1.000000

R6-3

PLOT DATE: 31-MAR-2011 09:08

PLOT BY: mscsja

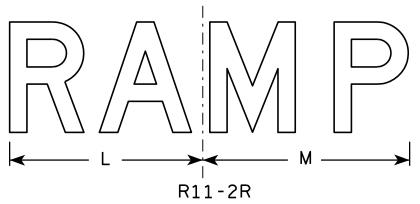


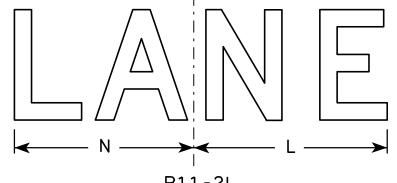
<u>NOTES</u>

- 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. Modify the message as required.





R	1	1	-	2	L

PLOT NAME :

SIZ	Έ	A	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																												
2	S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
21	I	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0
3		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0

COUNTY:

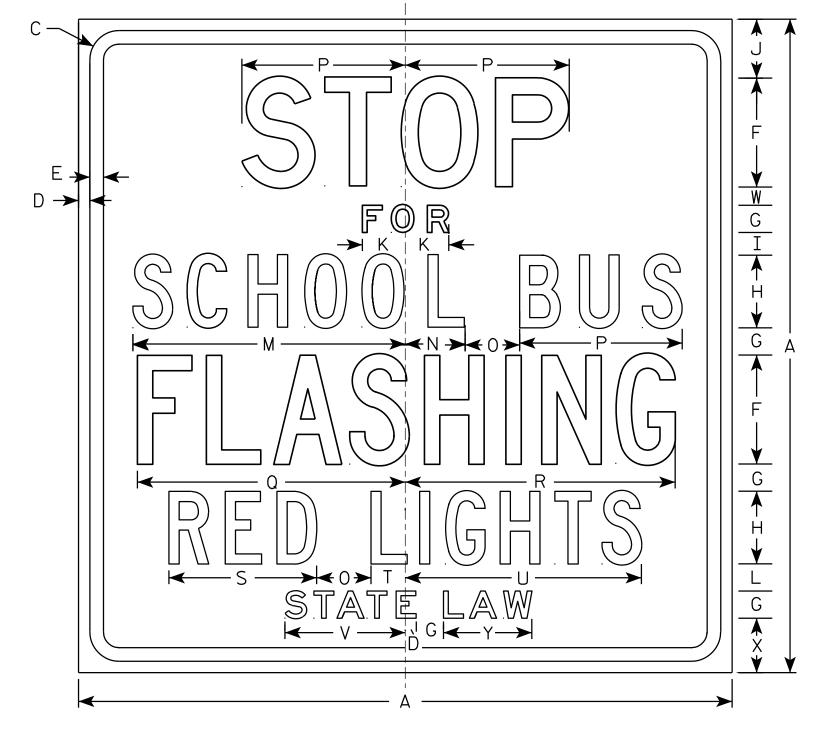
STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

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 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. Line 1 is Series D
 Lines 2 & 6 are Series E
 Line 3,4 & 5 are Series C

R59-51

SIZE	Α	В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	V	W	X	Y	Z'	Area sq. ft.
1																											
25	36		1 %	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 %	8 1/8	1 %	13	6 %	1	3	4 %		9.0
2M	36		1 %	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 %	8 1/8	1 %	13	6 %	1	3	4 1/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 %	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 %	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											
		•		•	•				-					•	-		•	•	_	•	•	•					

COUNTY:

STANDARD SIGN R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE 3/30/11 PLATE NO. R59-51.10

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R5951.DGN

HWY:

PROJECT NO:

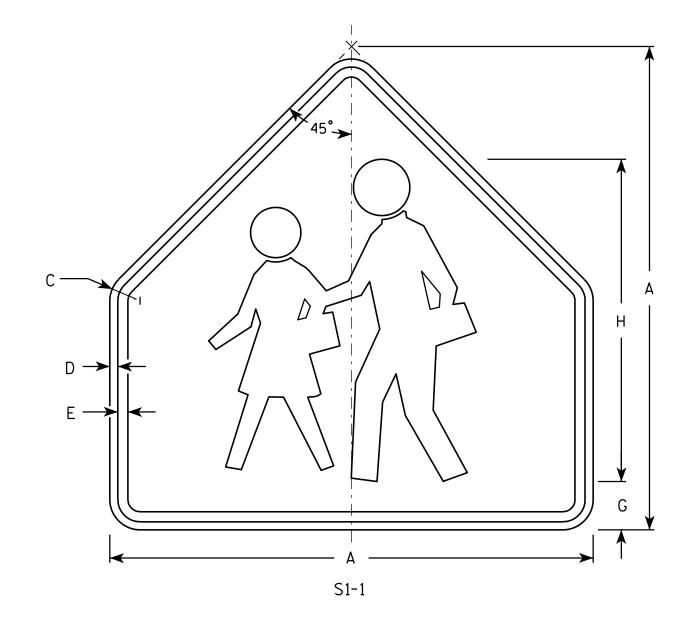
30-MAR-2011 09:59

PLOT DATE: 30-MAR-2011 09:59

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.287650:1.000000



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

Background - Yellow-Green 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.

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	Areg sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 %	5/8	3/4		3 1/2	24																			6.75
3	36		1 %	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	₹4	1		4 3/4	32																			12
5																											

COUNTY:

STANDARD SIGN S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Ter State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\S11.DGN

PROJECT NO:

HWY:

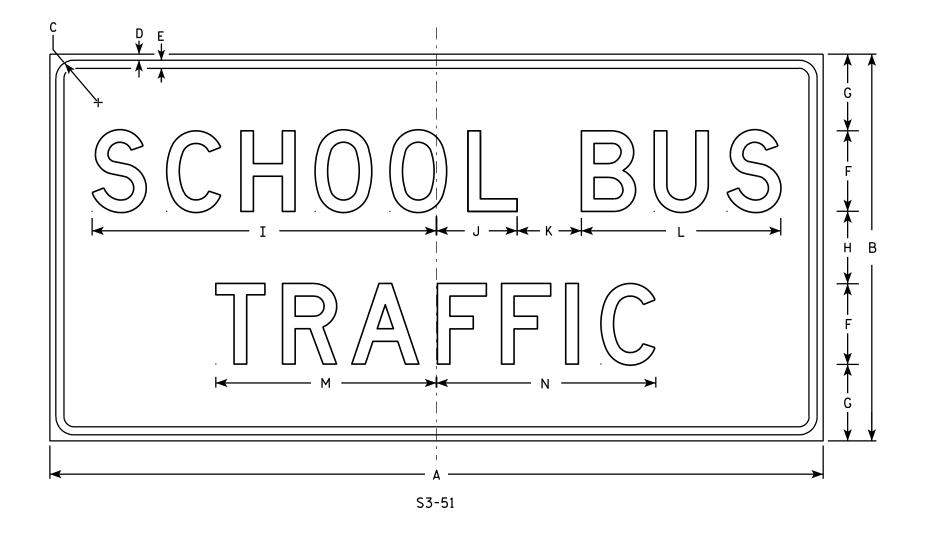
PLOT DATE: 26-MAY-2010 16:12

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.959043:1.000000

959043:1.000000 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-Green 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	K	L	M	N	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Areo sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8	5	4 3/4	4 1/2	21 3/8	5	4	12 3/8	14	13 %													8.0
2M	48	24	1 3/8	1/2	5/8	5	4 3/4	4 1/2	21 3/8	5	4	12 3/8	14	13 %													8.0
3																											
4	96	48	2 1/4	3/4	1	10	9 1/2	9	42 3/4	10	8	24 3/4	27 3/8	27 1/8													32.0
5																											

COUNTY:

STANDARD SIGN S3-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

DATE 11/02/10

02/10 PLATE NO. \$3-51.4

SHEET NO:

PLOT NAME :

PLOT SCALE: 11.918087:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:

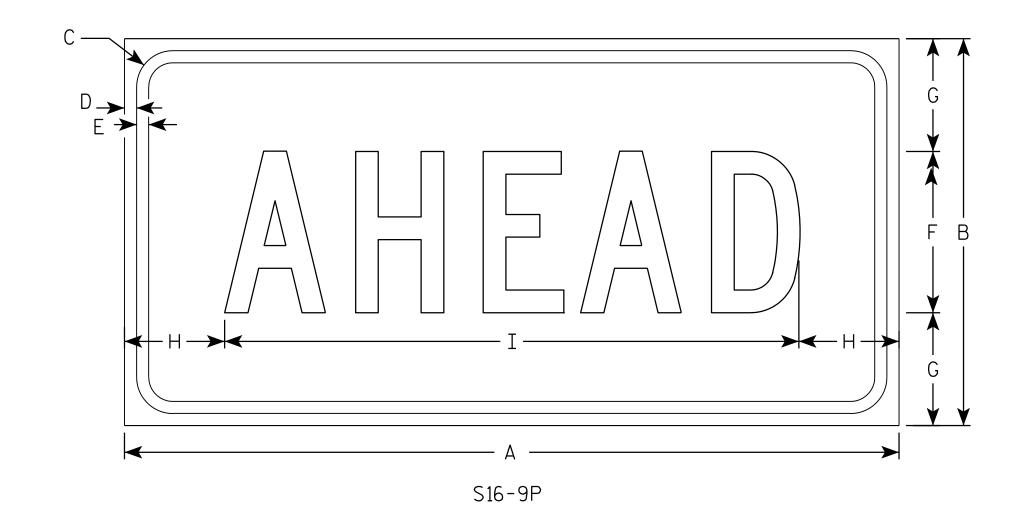
HWY:

PLOT BY: dotsja

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

Background - Yellow-Green 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	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Areo sq. ft.
1	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
25	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3⁄8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 ¾																		8.0
5																											

COUNTY:

STANDARD SIGN S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE 7/22/13

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :

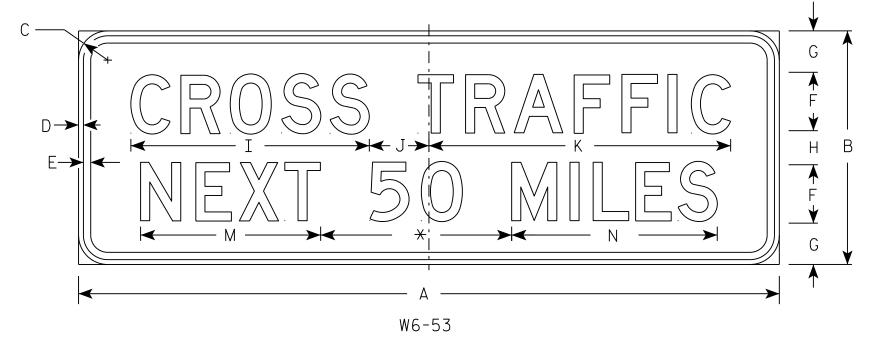
PLATE NO. S16-9P.1



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

Background - Yellow Message - Black Non - reflective

- 3. Message Series D
- 4. Corners and borders shall be rounded.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance.



* Varies (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	v	W	Х	Y	Z	Area sq. ft.
1 1																											
25																											
2M																											
3																											
4	144	48	6	1	1 1/2	12	9	6	49	12 1/4	62		37	42 1/4													48.0
5																											

STANDARD SIGN W6-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

DATE <u>3/14/17</u>

PLATE NO. <u>W6-53.7</u>

SHEET NO:

COUNTY:

PLOT DATE : 14-MAR-2017 16:05

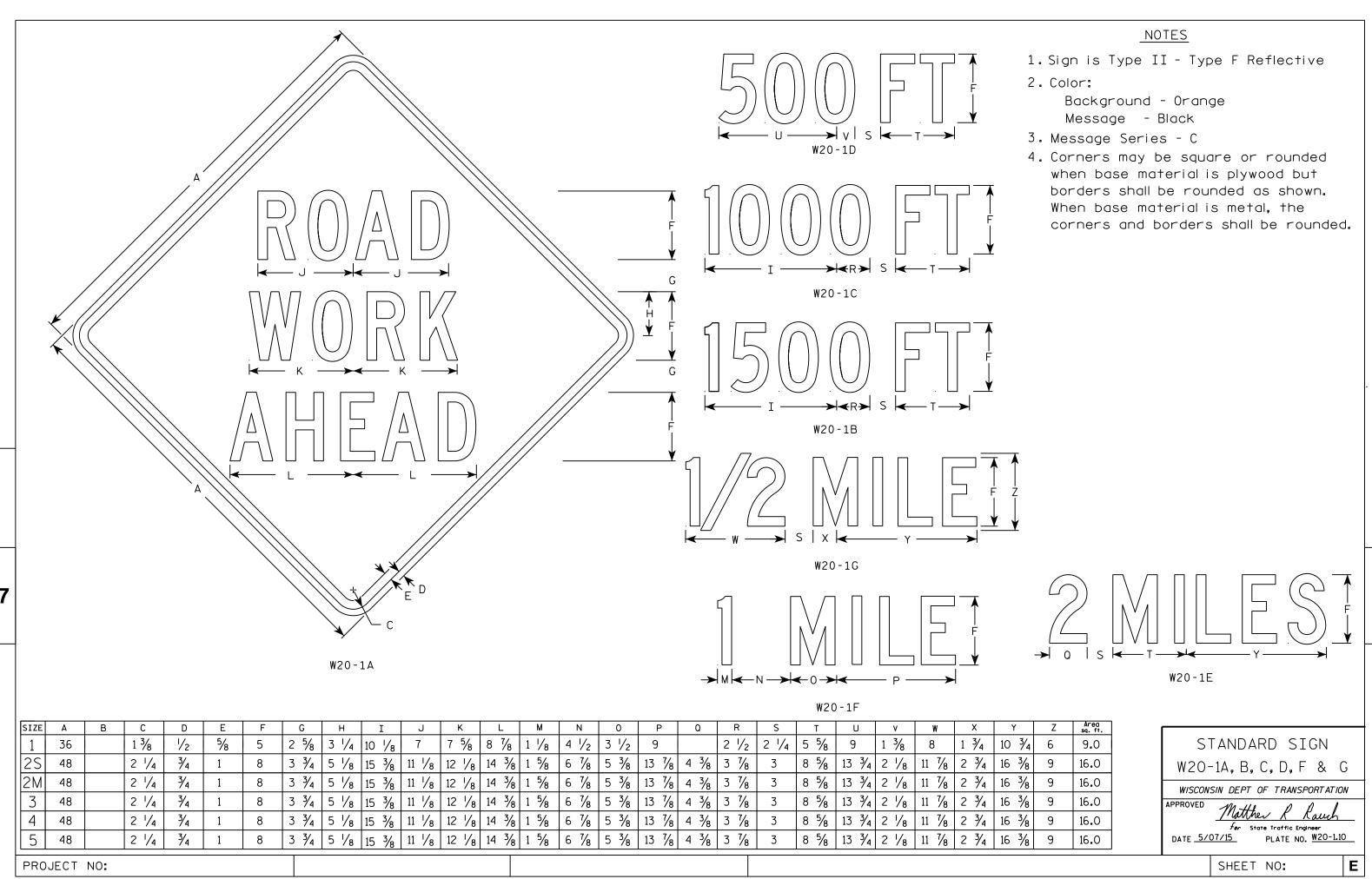
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE : 19.720662:1.000000

WISDOT/CADDS SHEET 42

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W653.DCN

HWY:



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 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. " _____ LANE" is Series B. All other copy is Series C.

W20-5D

W20-5B

W20-5G

PLOT BY: mscj9h

->IOI← R-		
	W20-5F	

								W20-	5 A																	11 2	20-56
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	v	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	7/8	2 1/2	13 1/8	10 ¾	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 %	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 1/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 1/2	3 ¾	2 3/8	10 %	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0

COUNTY:

STANDARD SIGN W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Kauch Fer State Traffic Engineer DATE 3/18/11 PLATE NO. W20-5.11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN

PROJECT NO:

HWY:

W20-56A

W20-55A

PLOT DATE: 18-MAR-2011 12:15

PLOT NAME :

PLOT SCALE: 11.918087:1.000000

- 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	M	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:

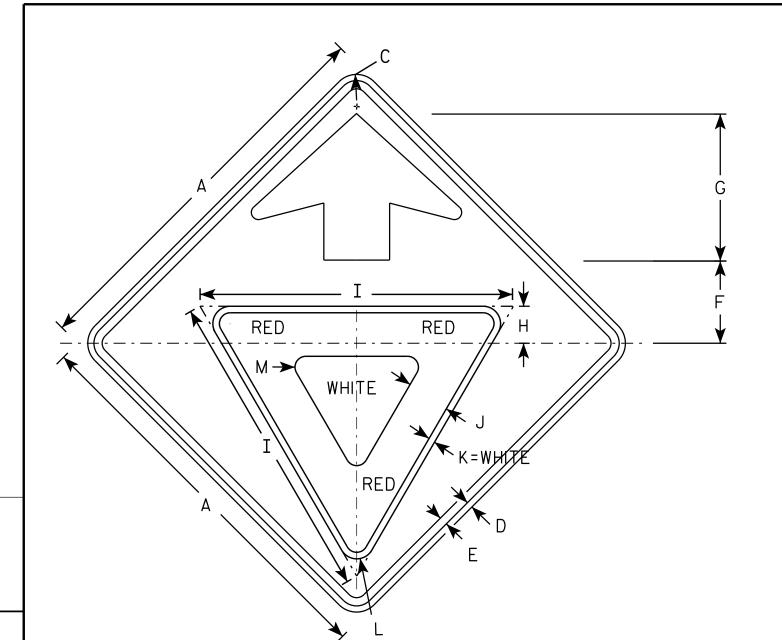
PROJECT NO:

PLOT DATE : 28-FEB-2014 11:37

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.837526:1.000000

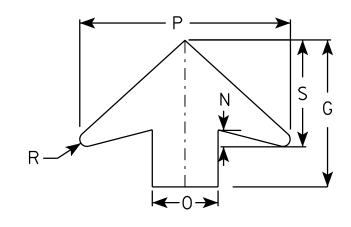


W03-2

NOTES

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

Background - ORANGE Arrow & Border - BLACK Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 %	28	3 3/4	5/8	1 1/2	1	1 %	6	19 1/4		5/8	9 3/4								9.0
2S	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		7 /8	13								16.0
2M	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		7 /8	13								16.0
3	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		<i>7</i> ⁄8	13								16.0
4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		<i>7</i> ⁄8	13								16.0
5	48		2 1/4	3∕4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		7 /8	13								16.0

STANDARD SIGN WO3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVE

For State Traffic Engineer

DATE 11/20/13 PLATE NO. W03-2.1

SHEET NO:

PROJECT NO:

FILE NAME: C:\CAEFiles\Projects\tr_stdplate\W032.DGN

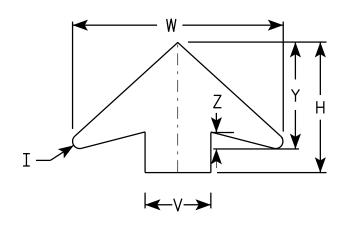
PLOT DATE: 20-NOV-2013 11:18

PLOT BY: mscsja

<u>NOTES</u>

- 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 for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	C	٧	W	X	Y	Z	Areo sq. ft.
1	36		1 1/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3∕8	9 3/4	1 5/8	9.0
2S	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	1∕8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3%	12	8	25 %	3∕8	13	2	16.0
2M	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	7∕8	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3/8	12	8	25 %	3⁄8	13	2	16.0
3	48		2 1/4	3∕4	1	19 1/4	10 ¾	17 3/8	7∕8	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3%	12	8	25 %	3∕8	13	2	16.0
4	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	⅓	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3%	12	8	25 %	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	1 / ₈	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 %	3∕8	13	2	16.0

STANDARD SIGN W03 - 5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Raul

DATE 11/20/13

PLATE NO. W03-5.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W035.DGN

W04-1R

HWY:

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. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

15 ¾ 13 ¼ 10 ¼ 5 ¼ 6 ¾ 45° 3 ¾ 10 % 11 ¾ 1 5/8 3/4 14 2 3/4 36 9.0 18 3/4 3 5/8 20 1/2 17 1/2 14 3/8 7 8 3/8 45° 4 3/4 14 1/4 15 1/4 1 1/4 2 1/4 16.0 48 4 3/4 14 1/4 15 1/4 1 1/4 2M 2 1/4 3/4 18 3/4 3 5/8 20 1/2 17 1/2 14 3/8 7 8 3/8 45° 48 16.0 2 1/4 | 3/4 3 18 3/4 3 5/8 20 1/2 17 1/2 14 3/8 7 8 3/8 45° 4 3/4 14 1/4 15 1/4 1 1/4 48 16.0 18 3/4 3 5/8 2 1/4 | 3/4 20 1/2 17 1/2 14 3/8 8 3/8 45° 4 3/4 14 1/4 15 1/4 1 1/4 4 48 7 16.0 18 3/4 3 5/8 20 1/2 17 1/2 14 3/8 7 8 3/8 | 45° | 4 3/4 | 14 1/4 | 15 1/4 | 1 1/4 2 1/4 3/4 48 8 16.0

COUNTY:

STANDARD SIGN WO4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 11/20/13

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W041.DGN

PROJECT NO:

PLOT DATE: 20-NOV-2013 11:38

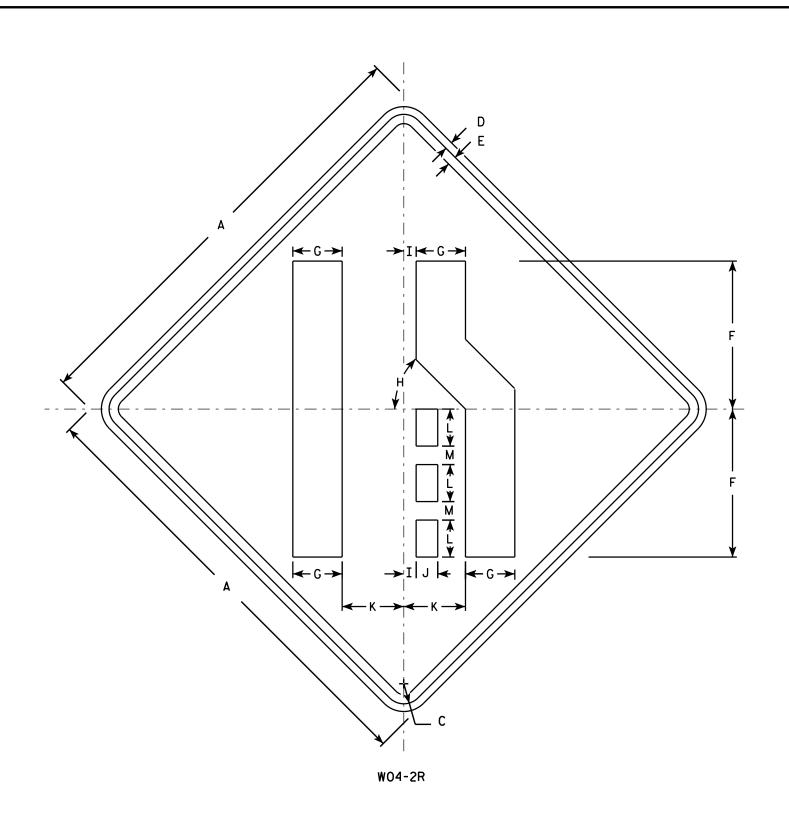
PLOT NAME :

PLOT SCALE : 6.080757:1.000000

- 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.
- 4. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.



SIZE 1 % 5/8 3/4 12 45° 1 3/4 5 1 1/2 4 36 3 9.0 2S 2 1/4 5 3/8 45° 1 ¼ 2 ¾ 6 ¾ 3/4 48 16.0 45° 1 ¼ 2 ¾ 6 ¾ 3/4 5 3/8 48 2 1/4 2 16.0 2 1/4 3 48 3/4 5 % 45° | 1 1/4 | 2 3/8 | 6 3/4 2 16.0 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0 5 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0

STANDARD SIGN W04 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ForState Traffic Engineer

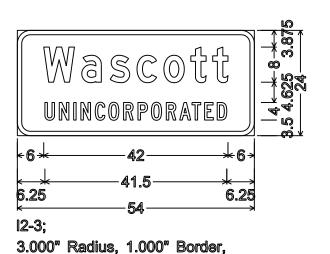
DATE 11/20/13 PLATE NO. <u>WO4-2.1</u>

SHEET NO:

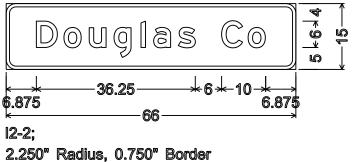
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W042.DGN

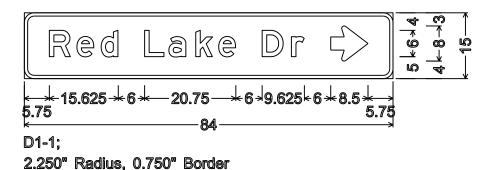
PROJECT NO:

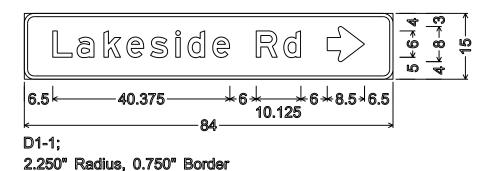
PLOT DATE: 20-NOV-2013 11:43

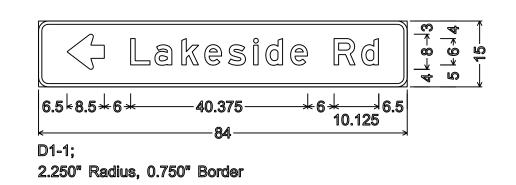


"Wascott" D; "UNINCORPORATED" C









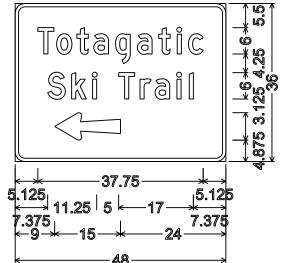
NOTES

1. All Signs Type II - Type H Reflective

2. Color:

Background - Green except as noted Message - White

3. Message Series - E except as noted



2.250" Radius, 0.750" Border, White on Brown; "Totagatic" D; "Ski" D; "Trail" D

PROJECT NO: 1196-00-70

HWY: USH 53

COUNTY: WASHBURN/DOUGLAS

PERMANENT SIGNING

SHEET NO:

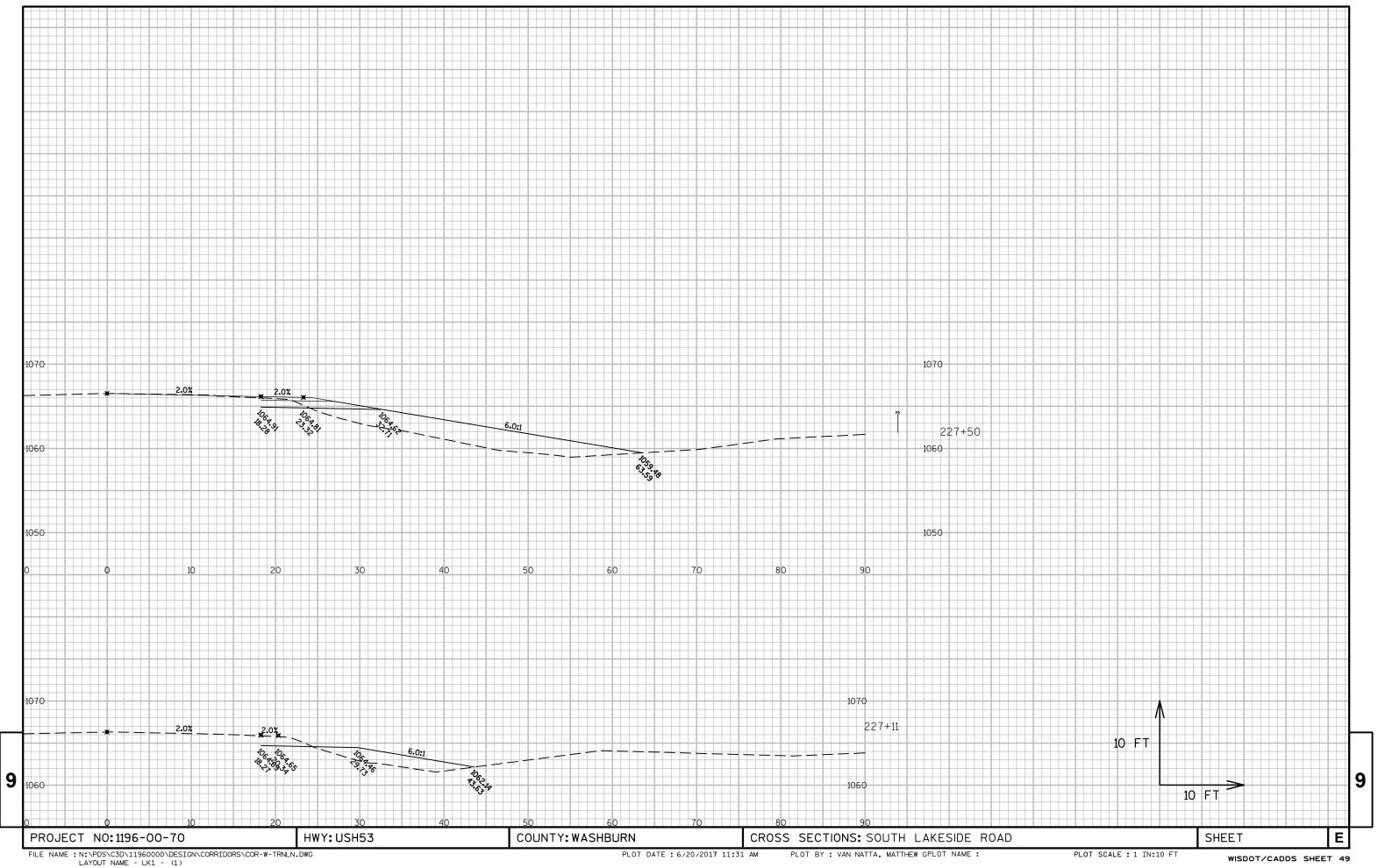
FILE NAME . C.\CAFfiles\Projects\tr d8\8651a916 DGN

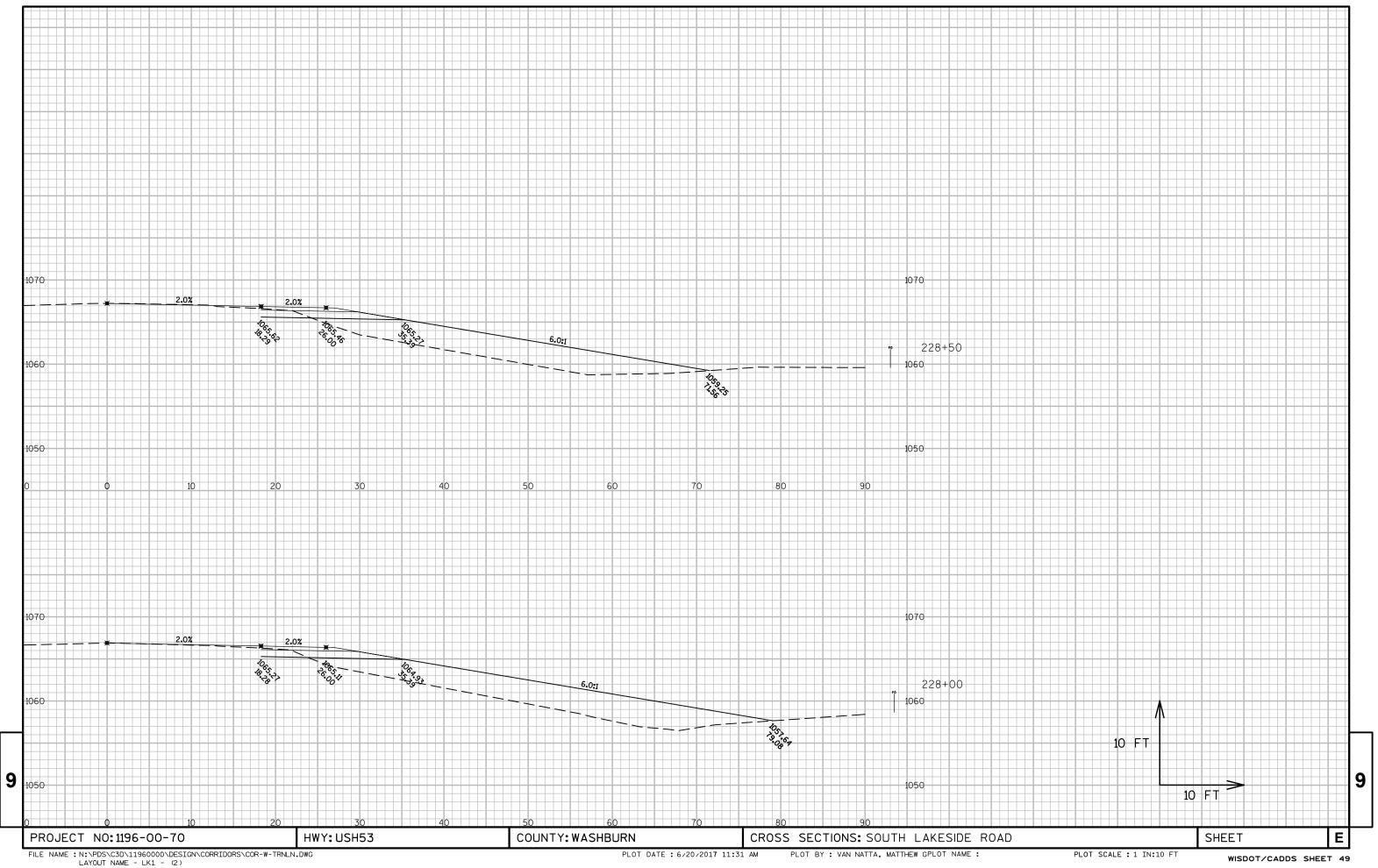
PLOT DATE . 07-SEP-2016 17:18

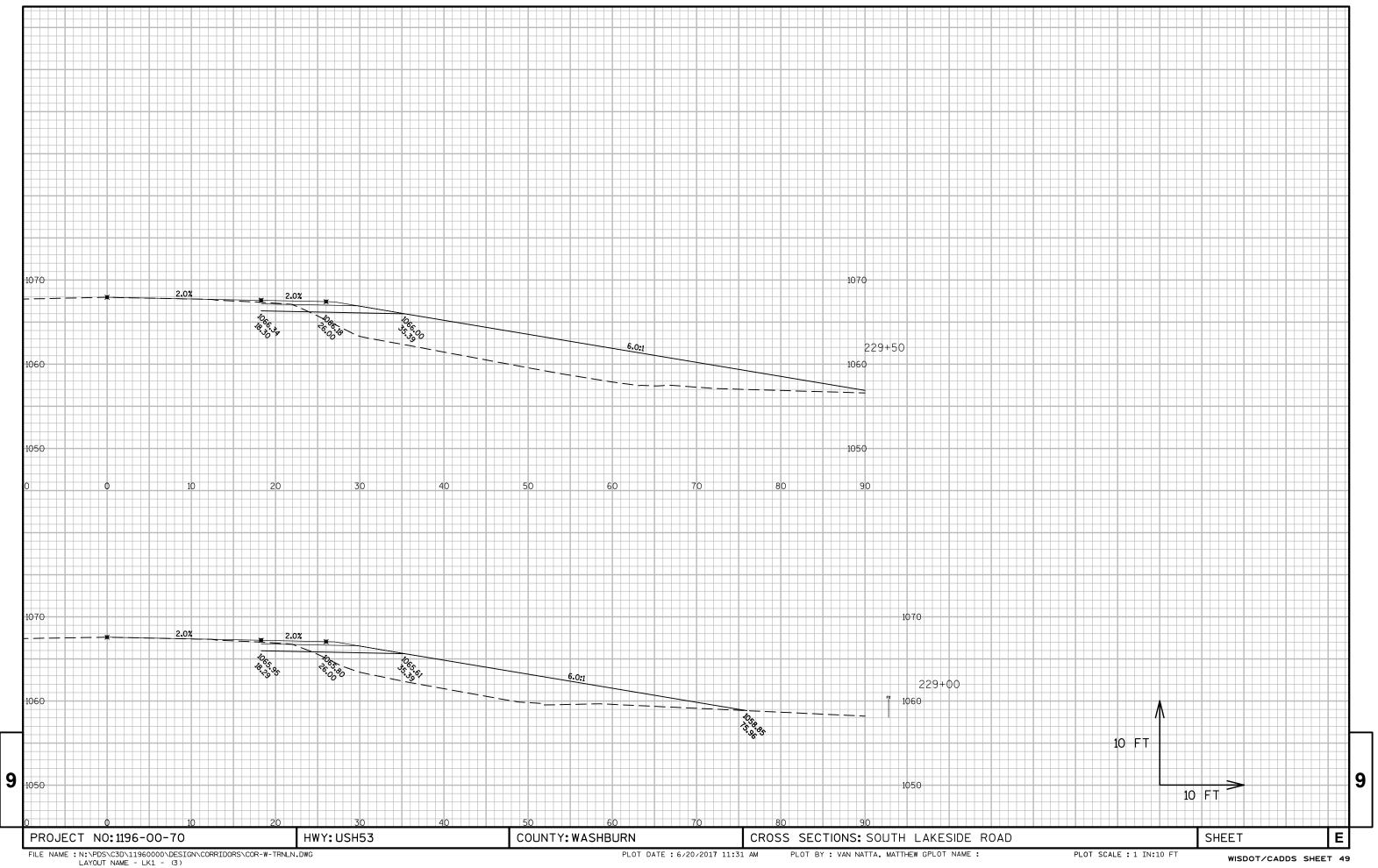
PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

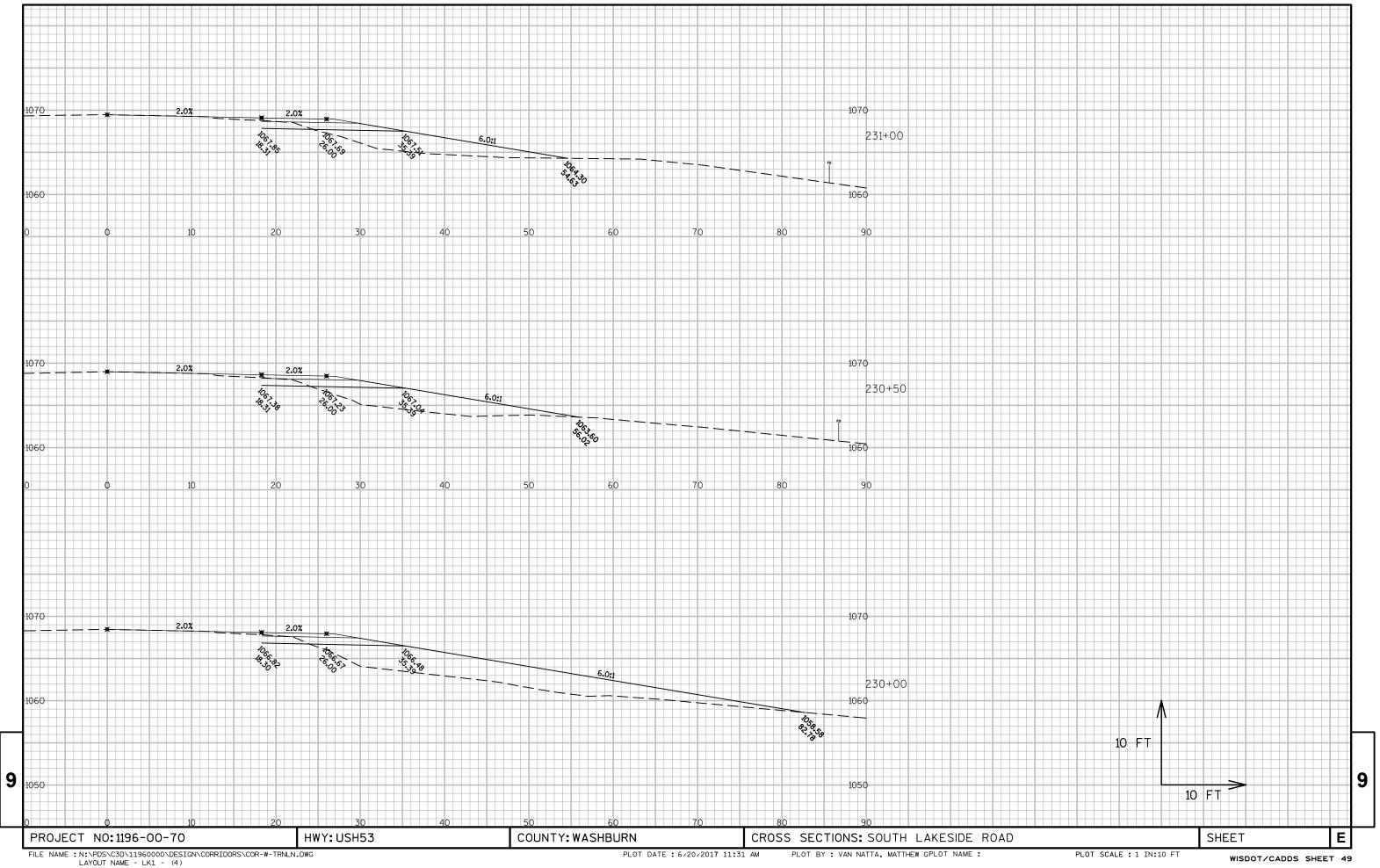
PLOT SCALE . 21 866168.1 000000

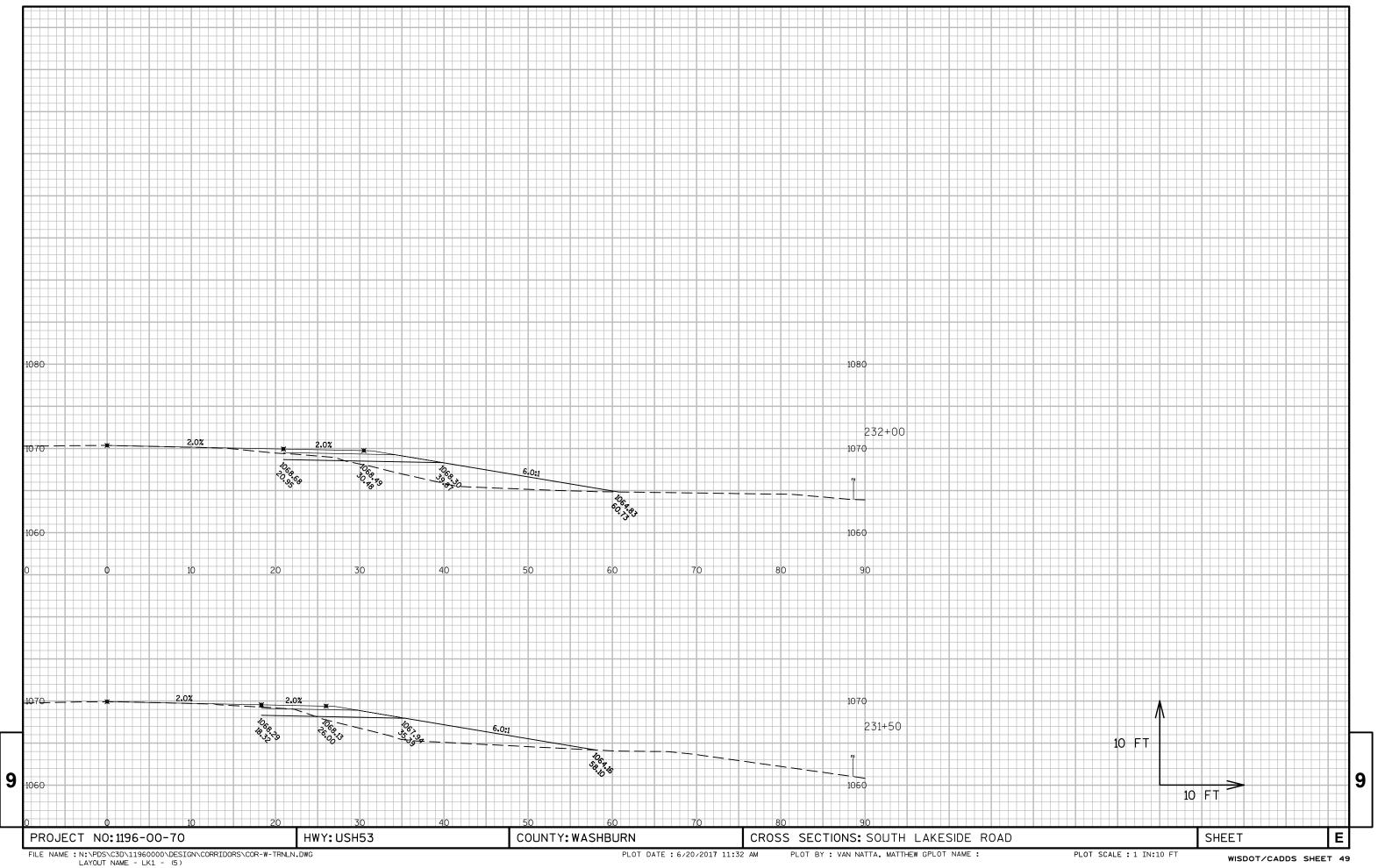
Ε

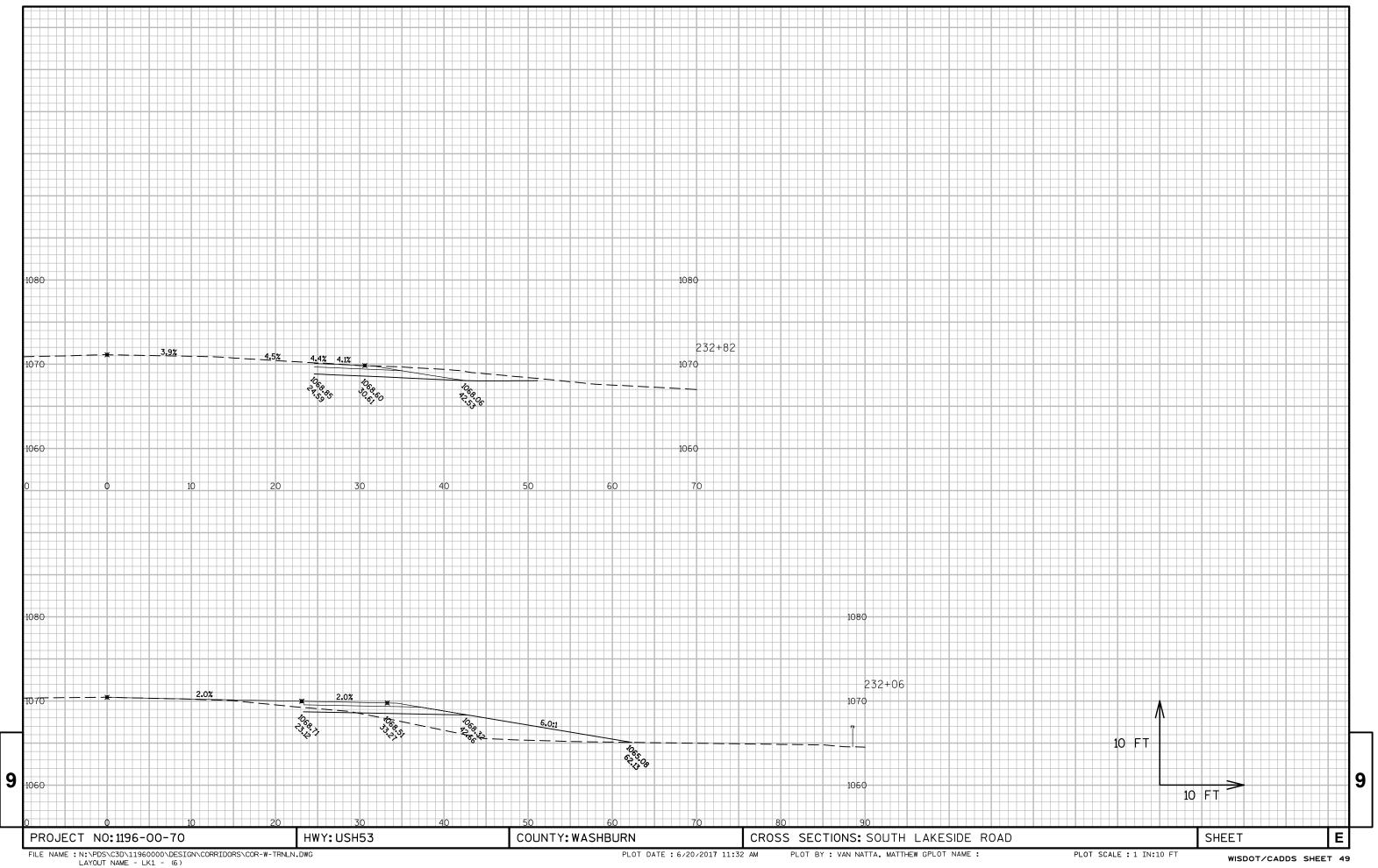


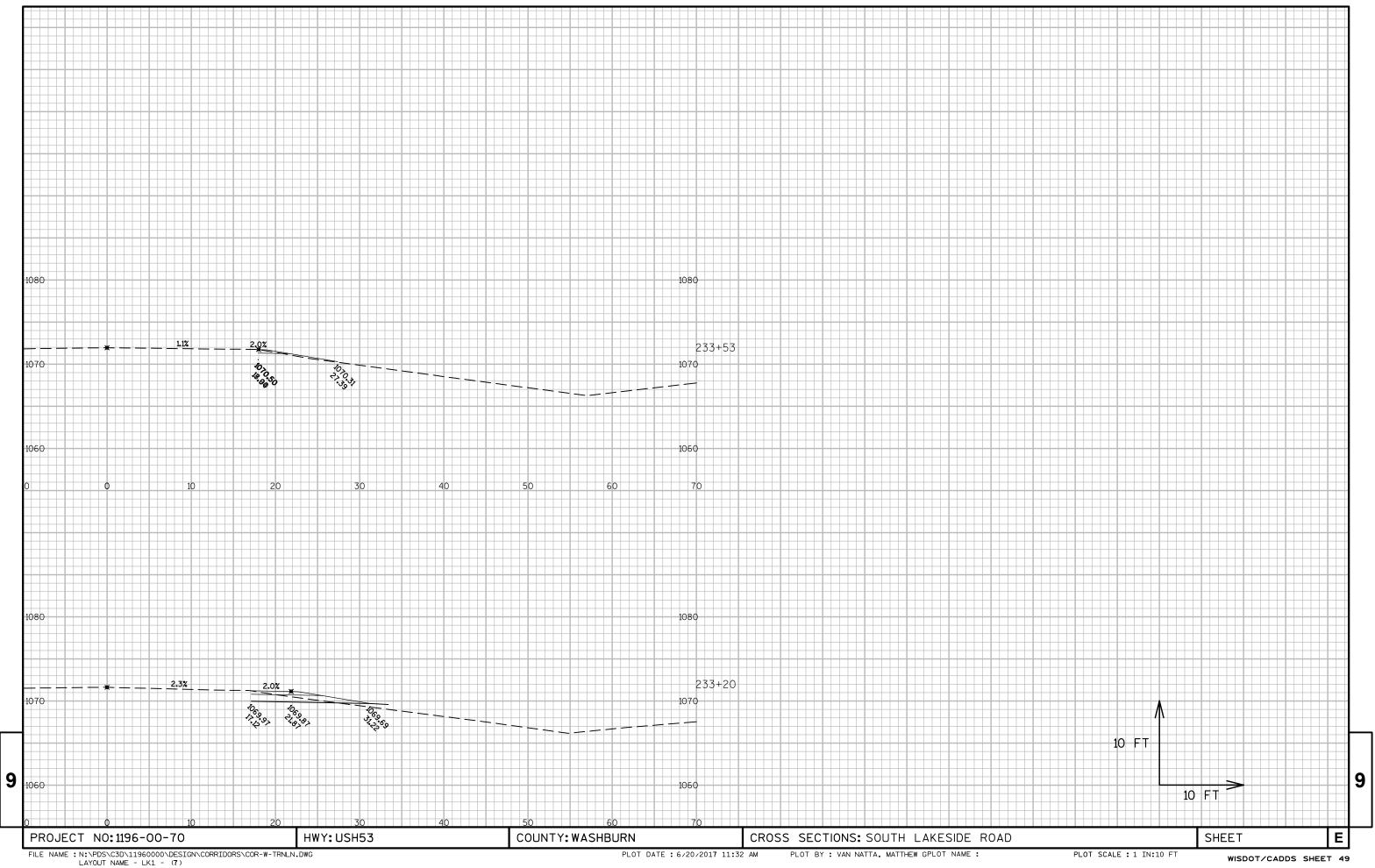


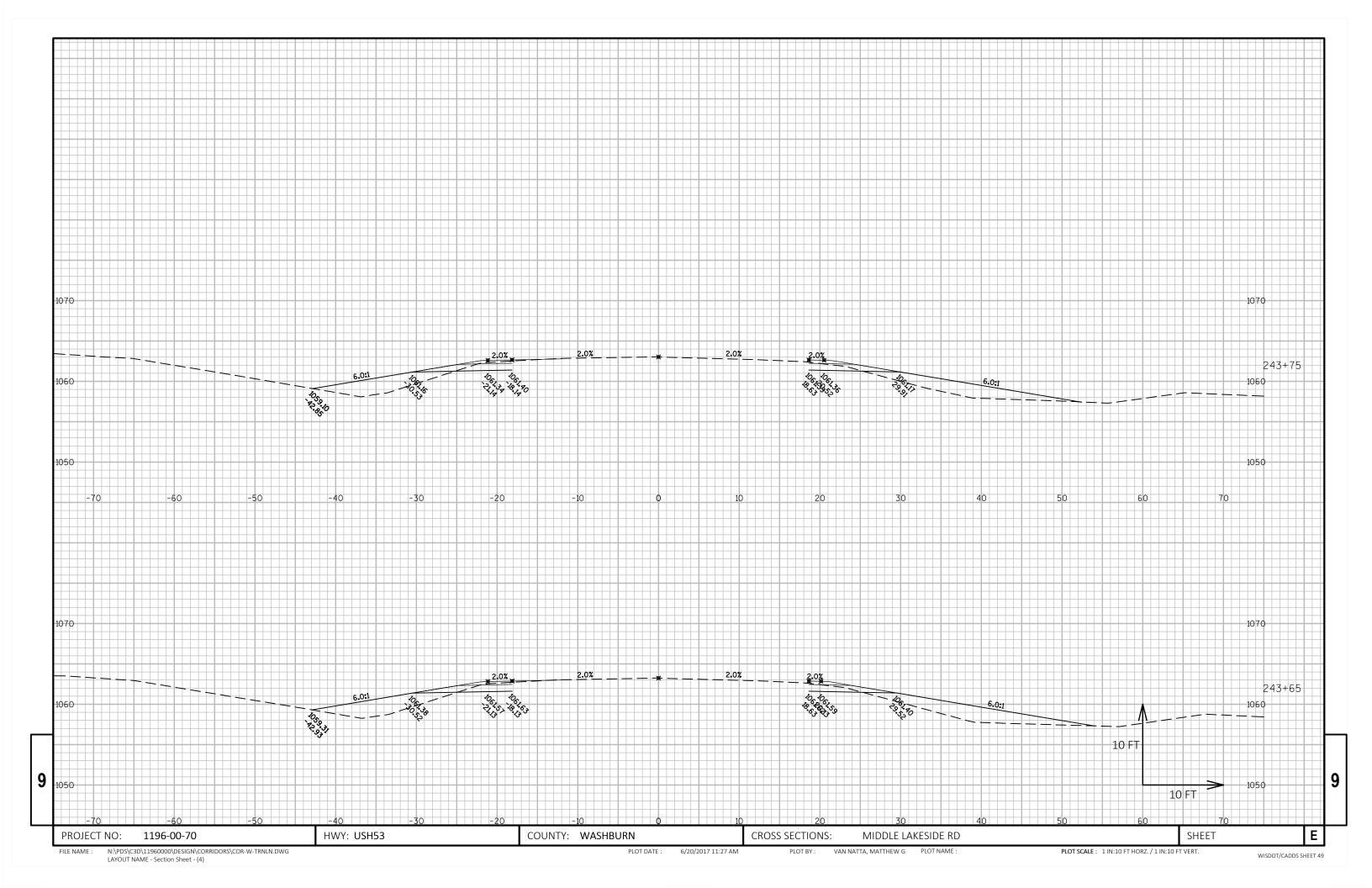


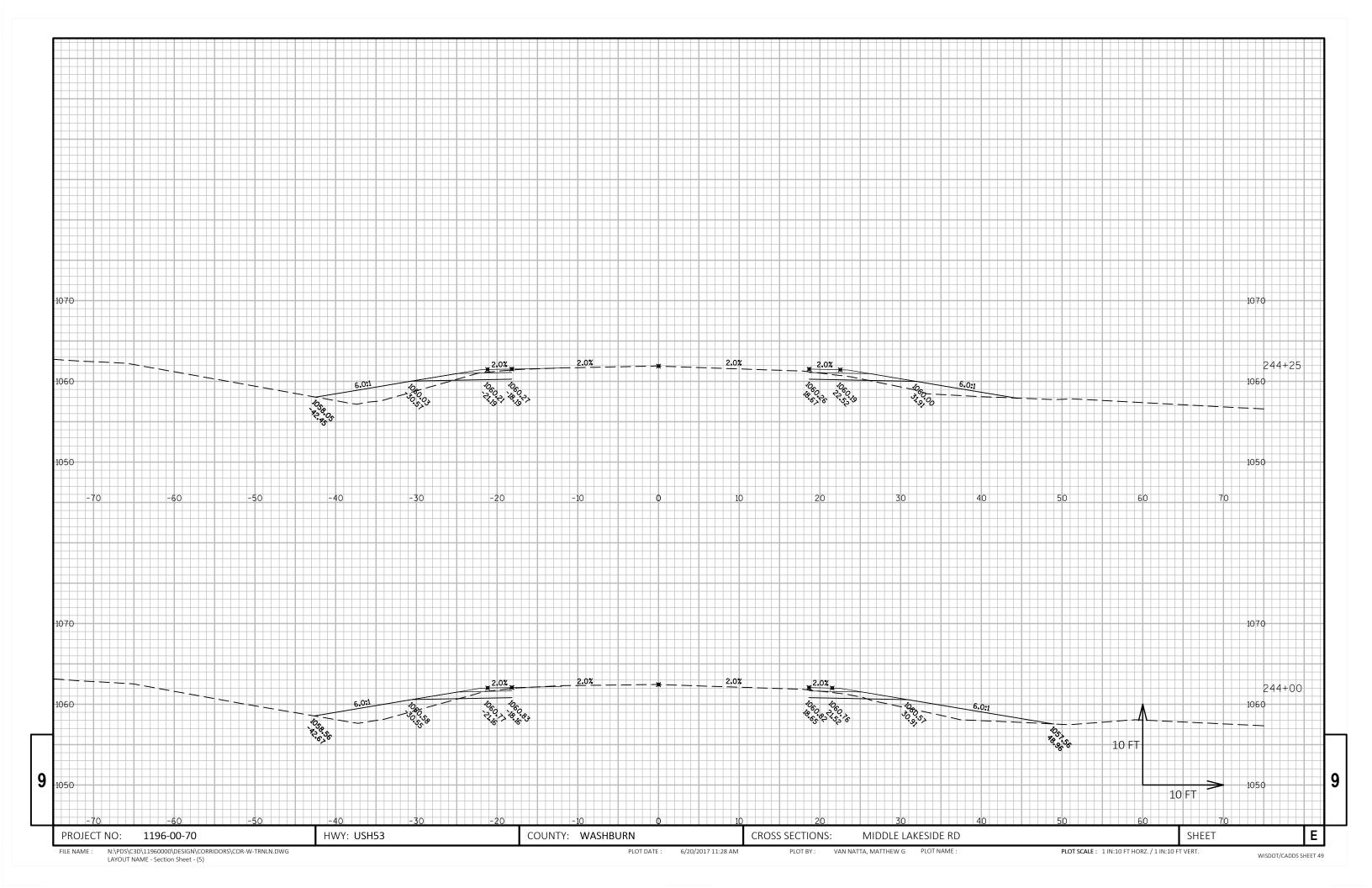


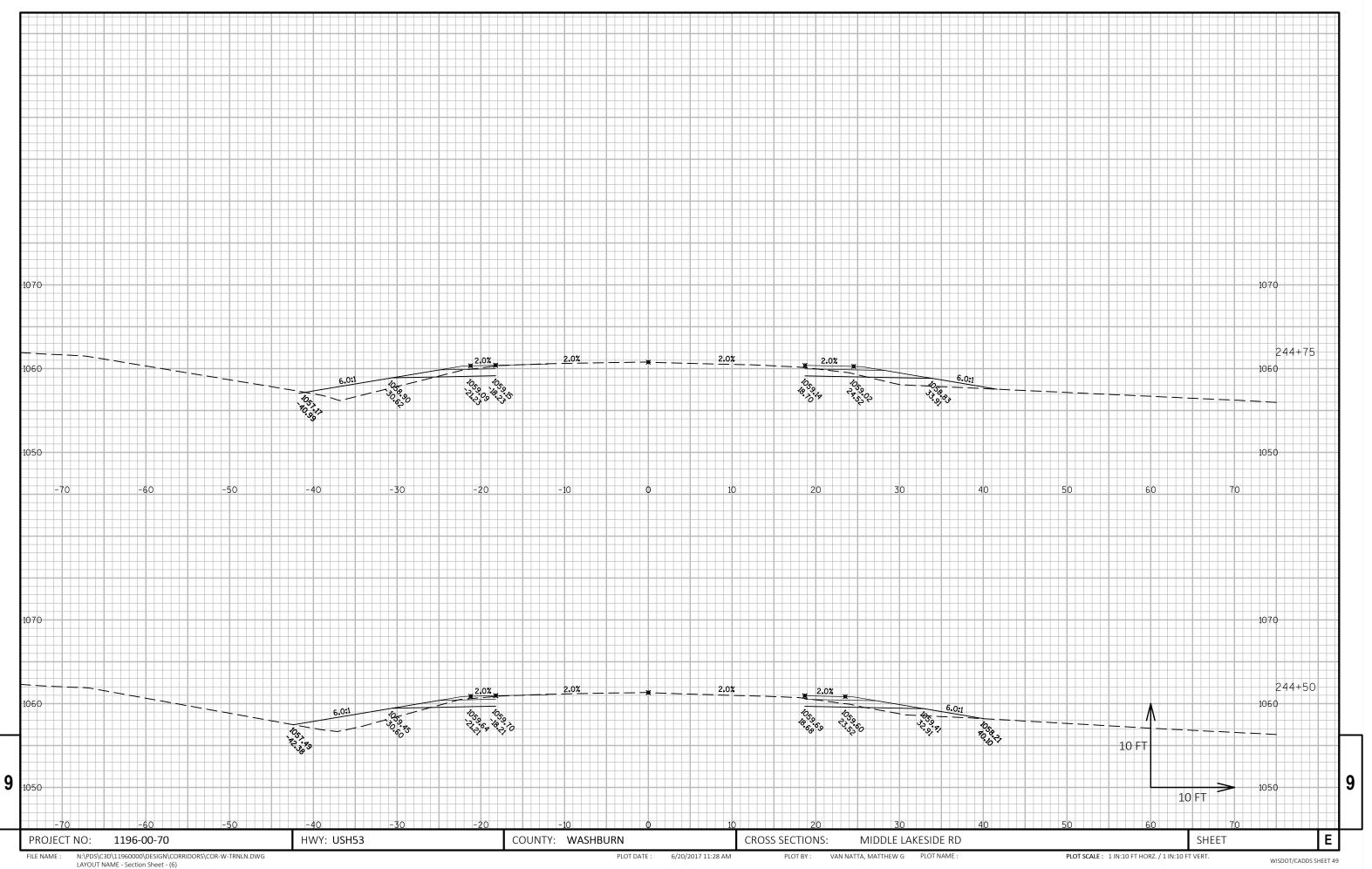


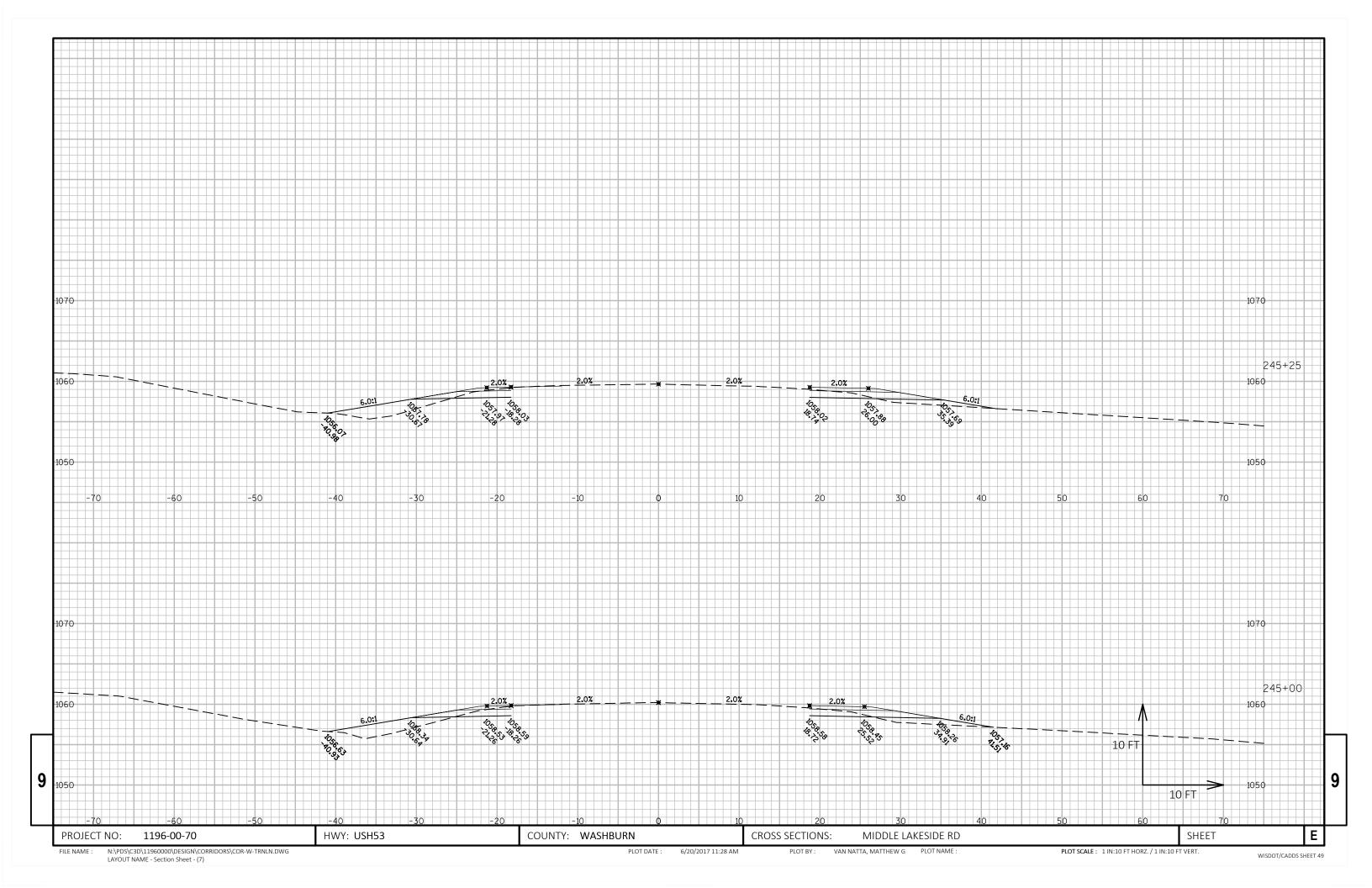


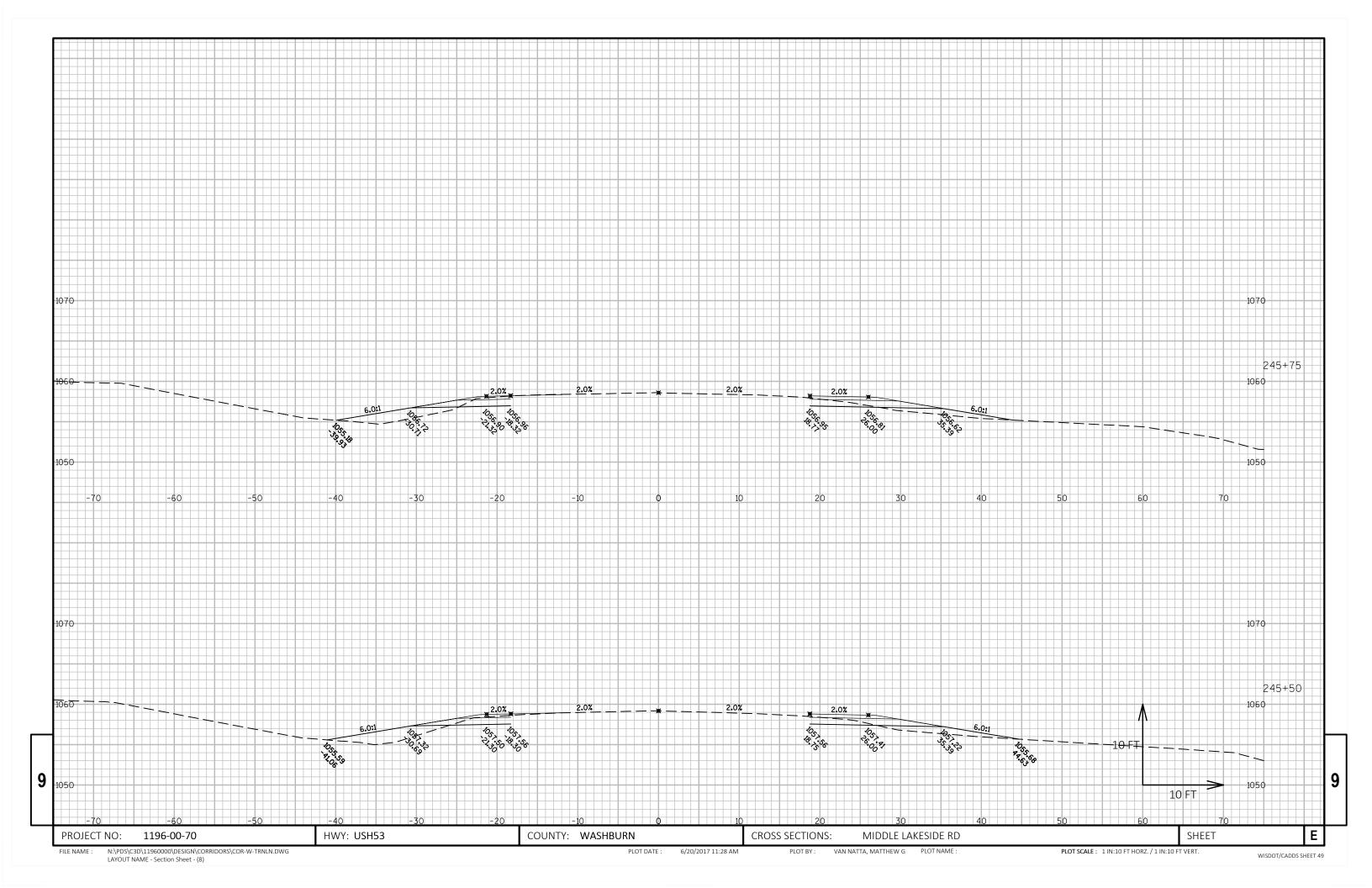


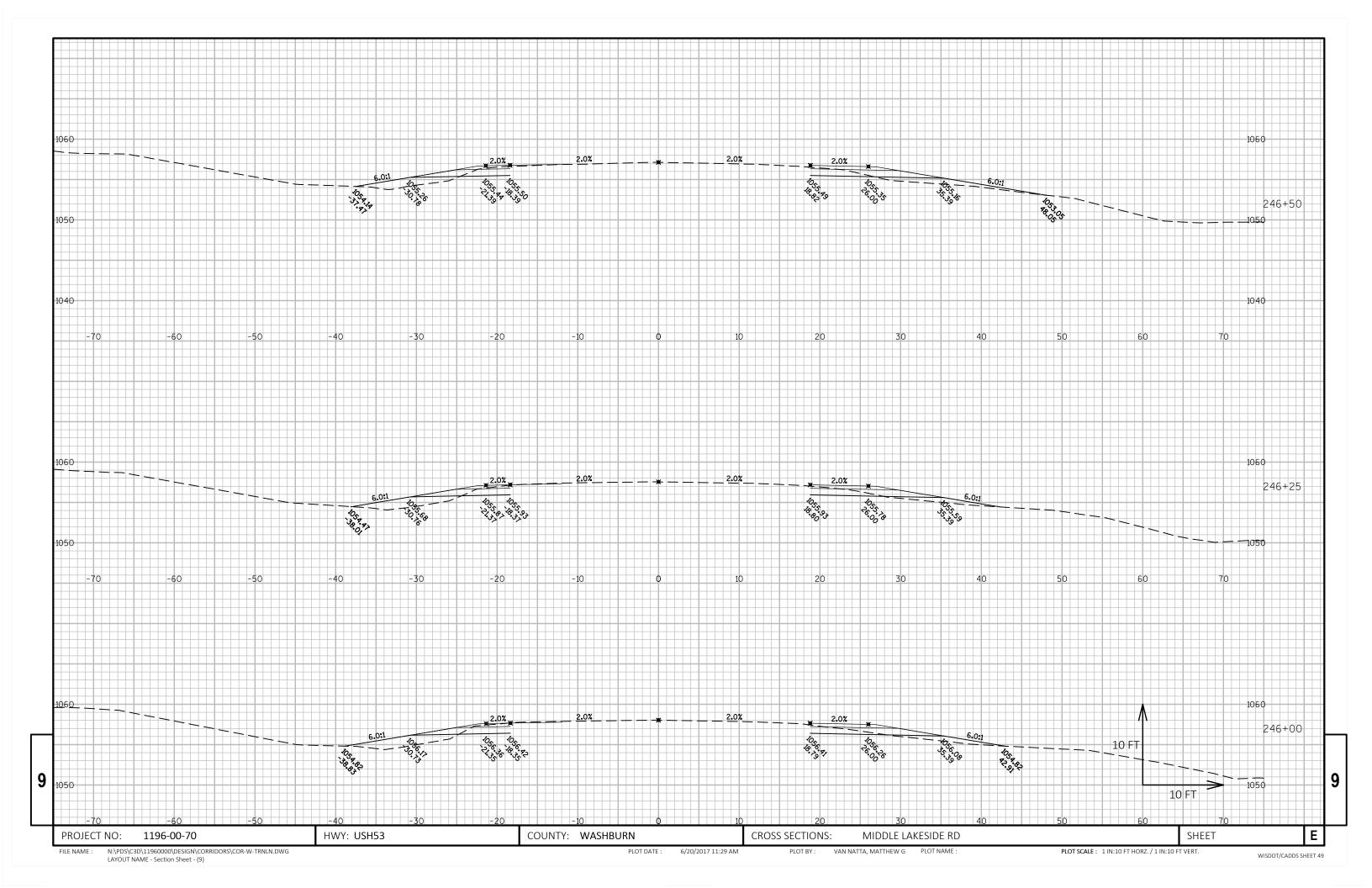


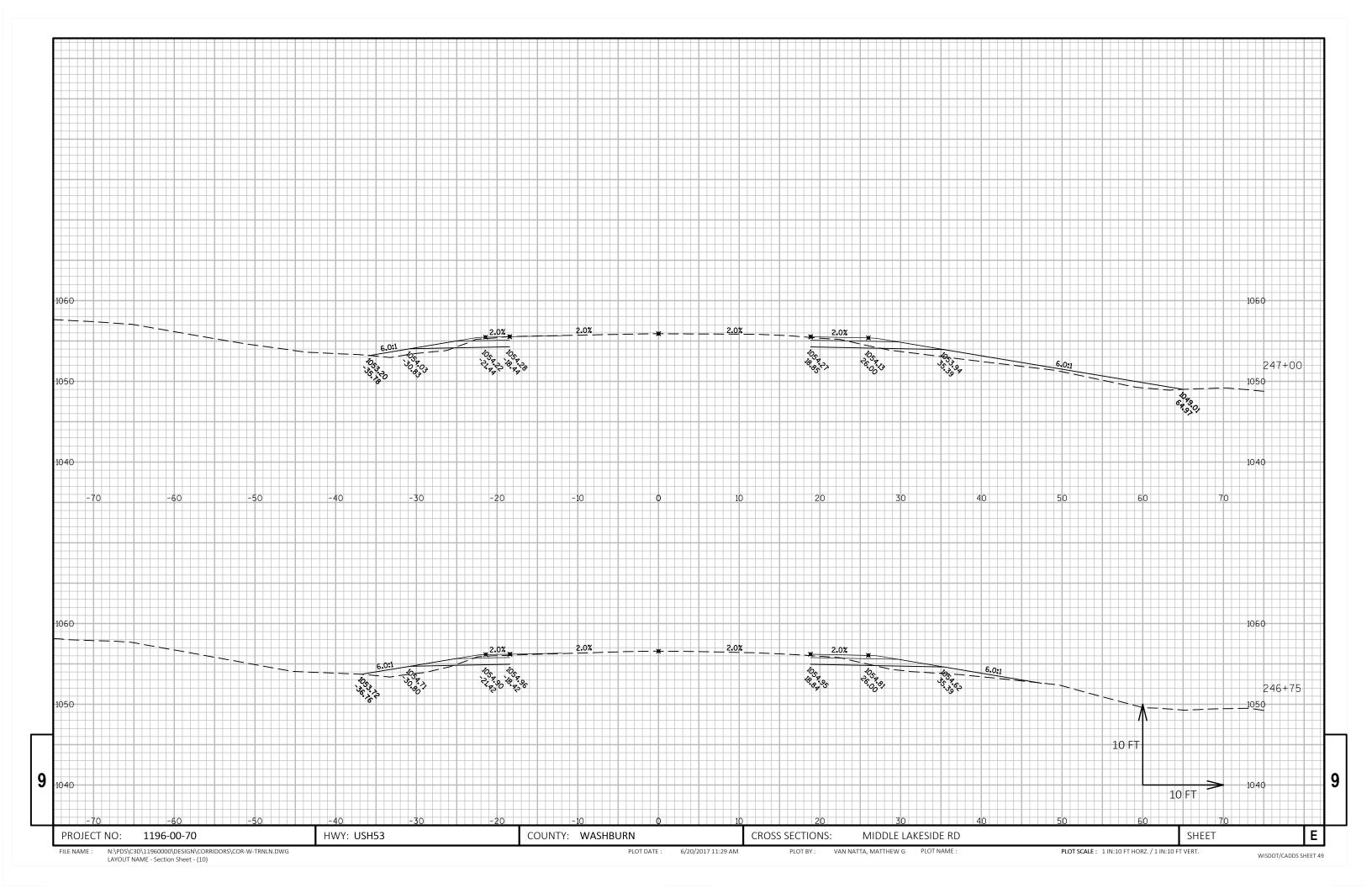


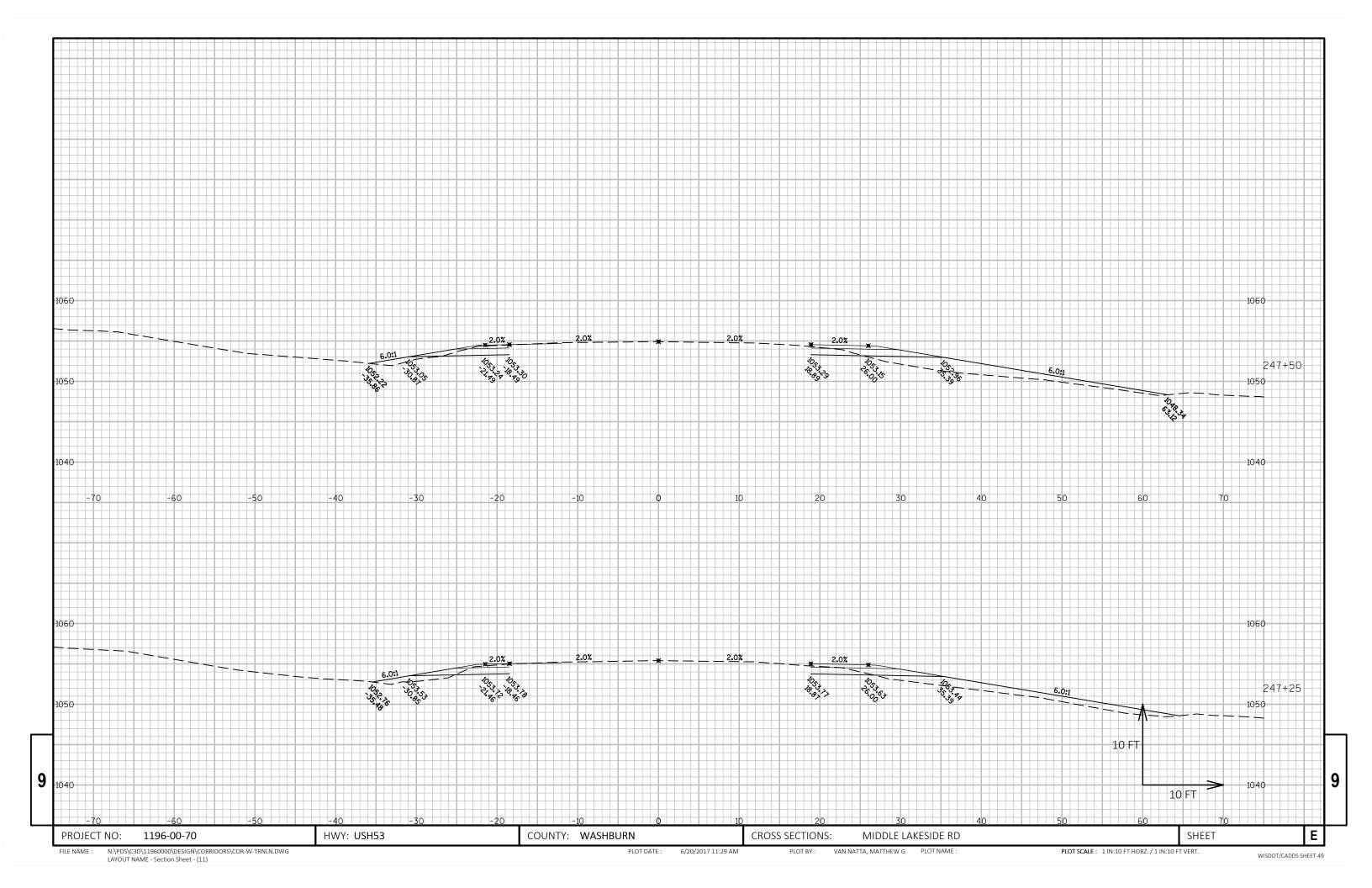


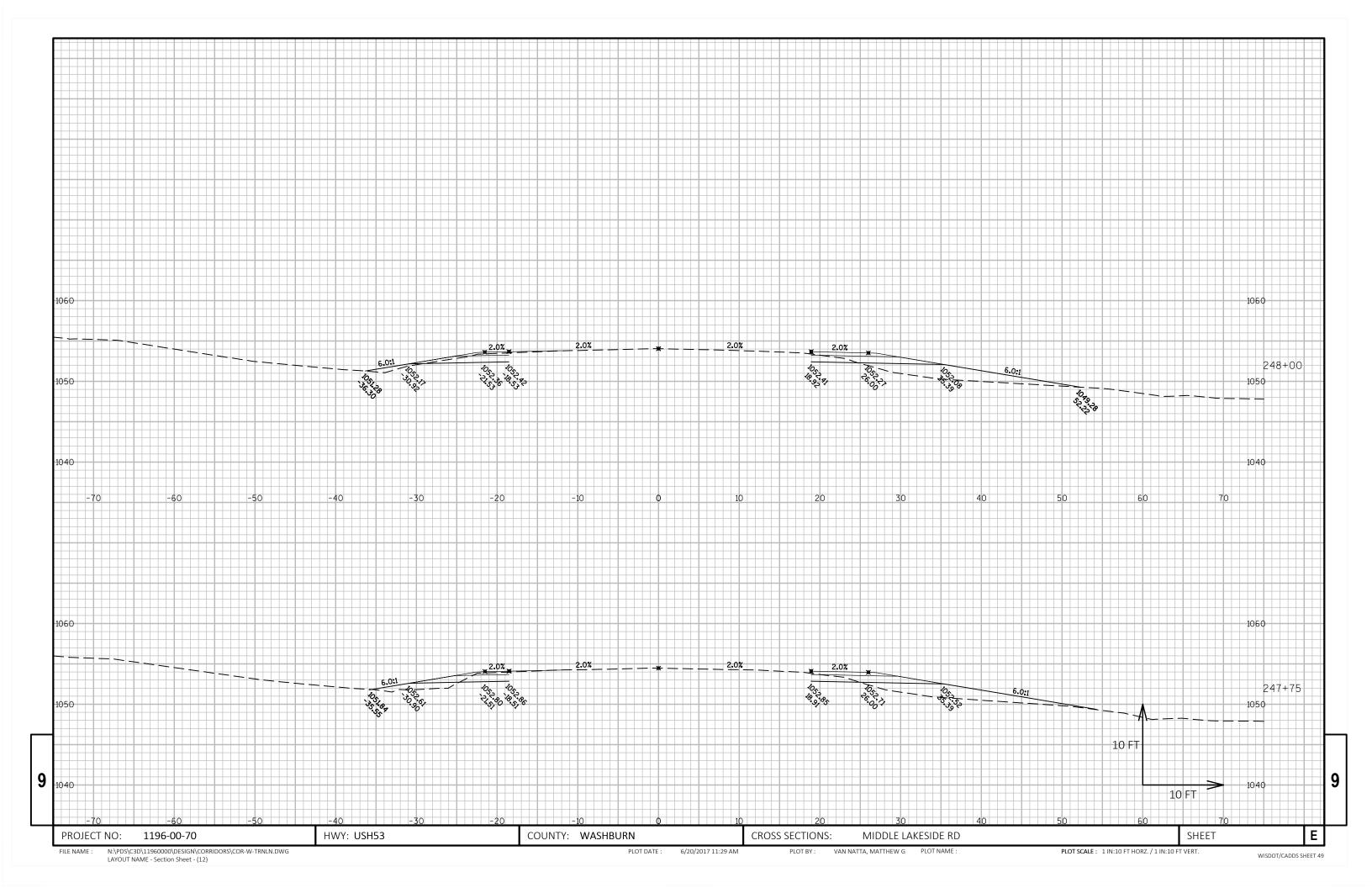


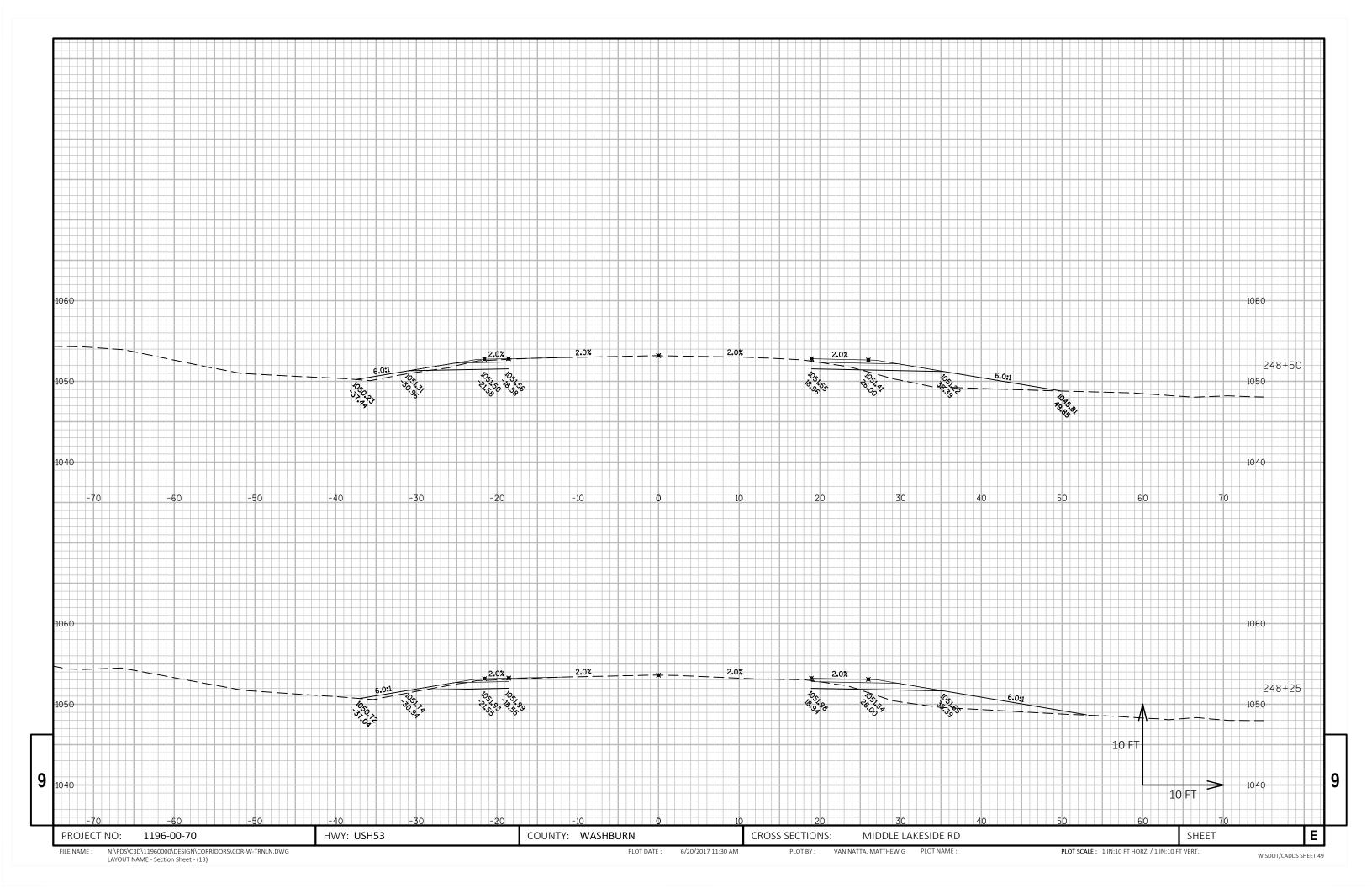


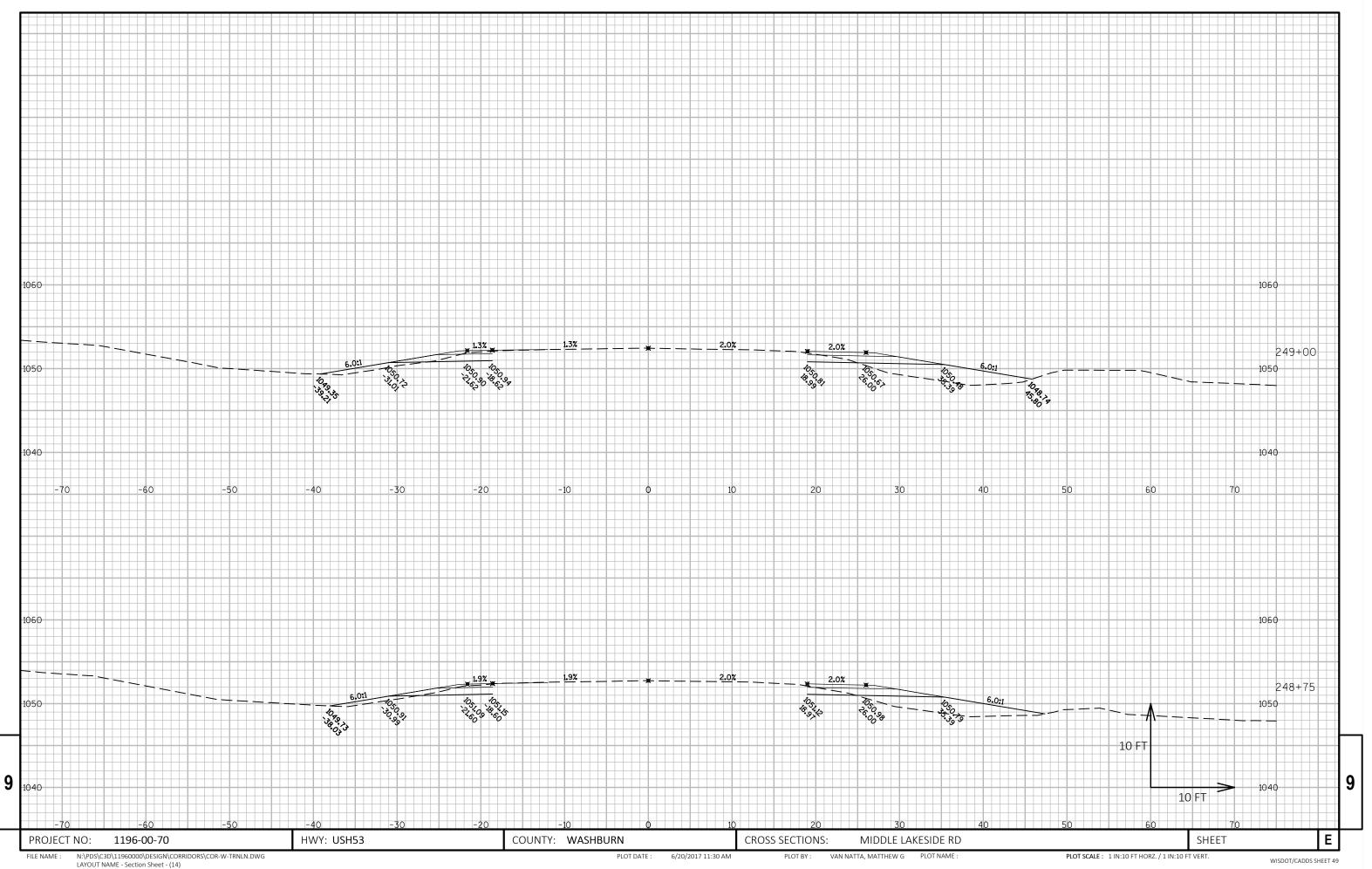


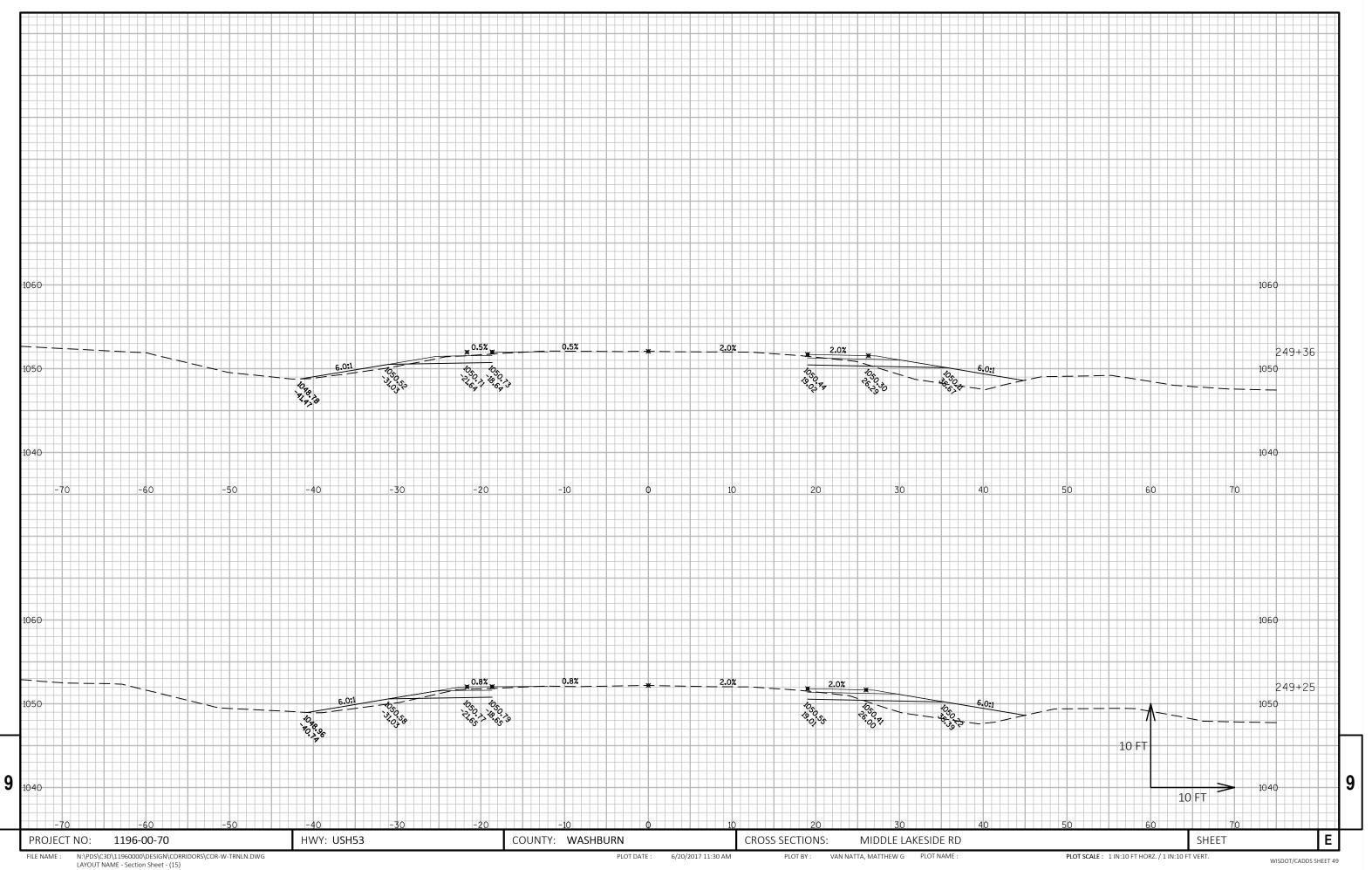


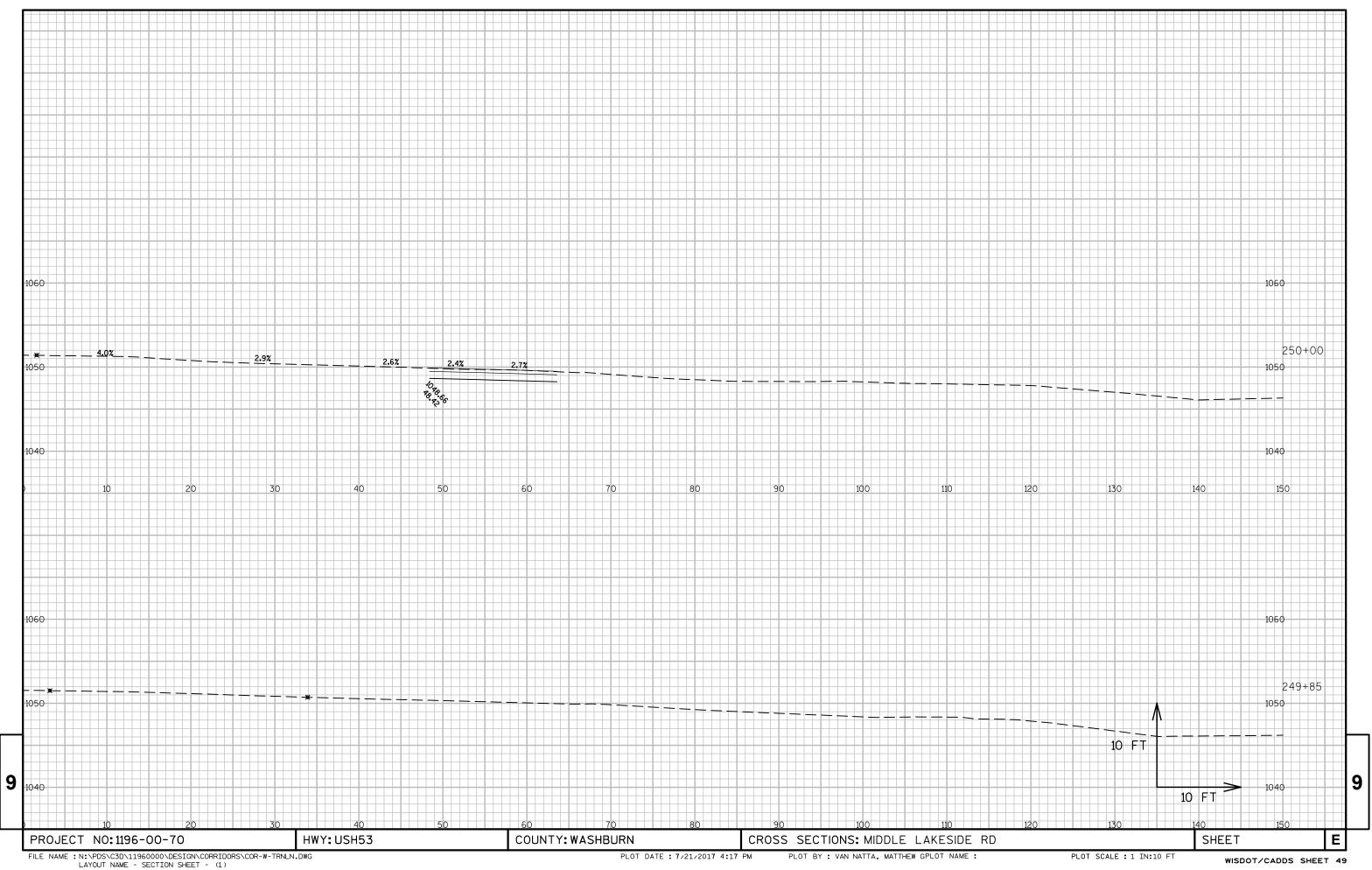


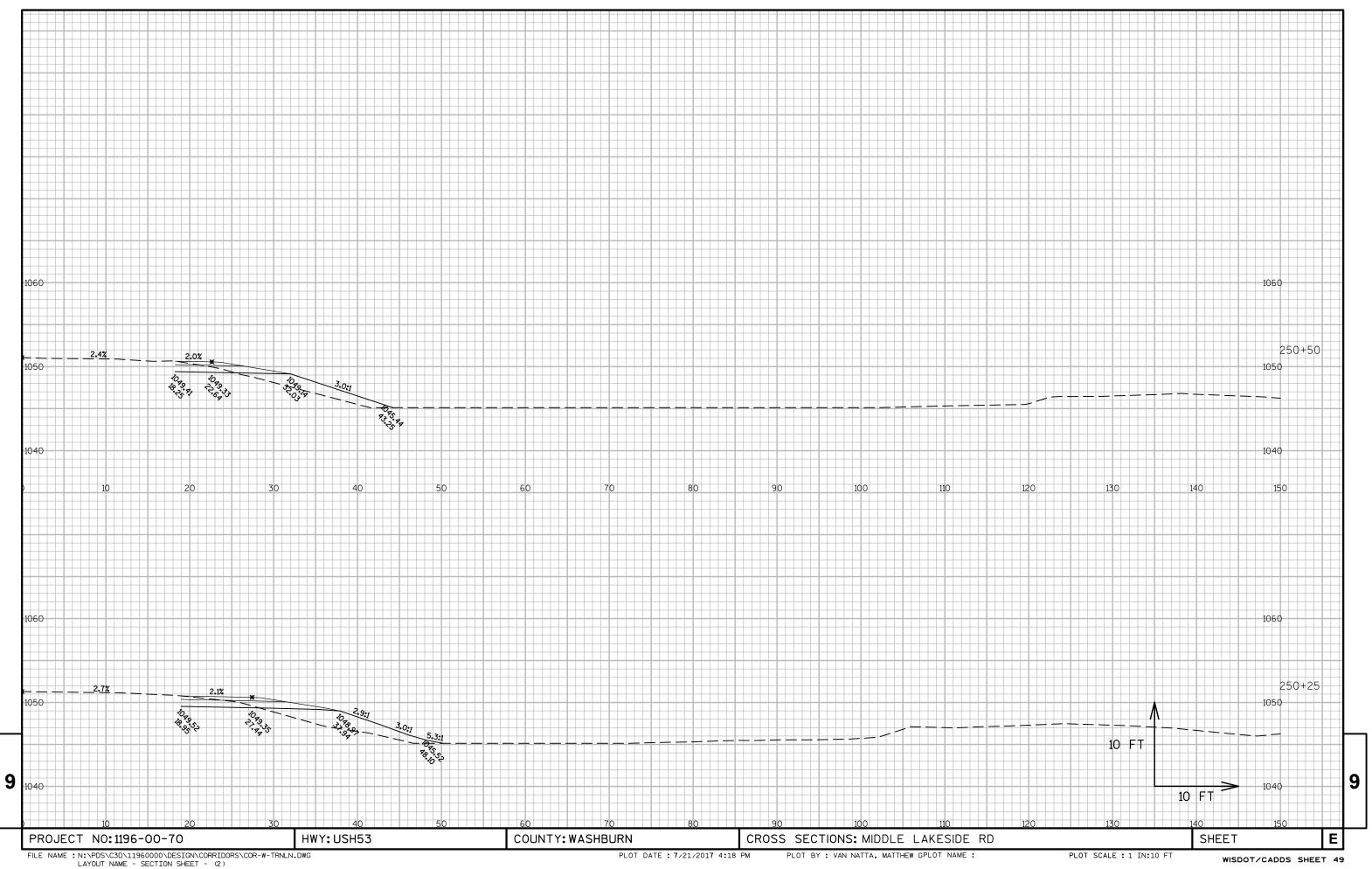


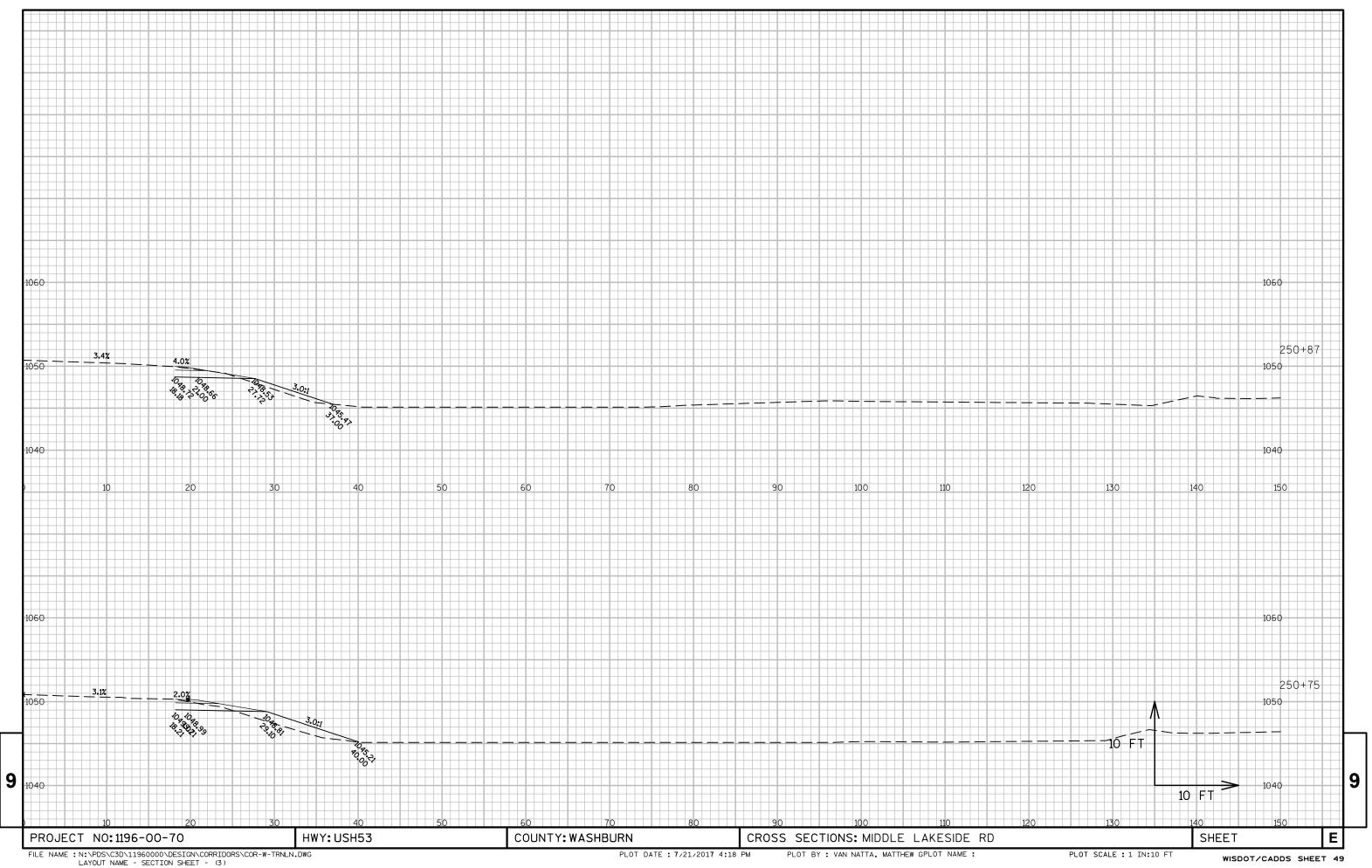


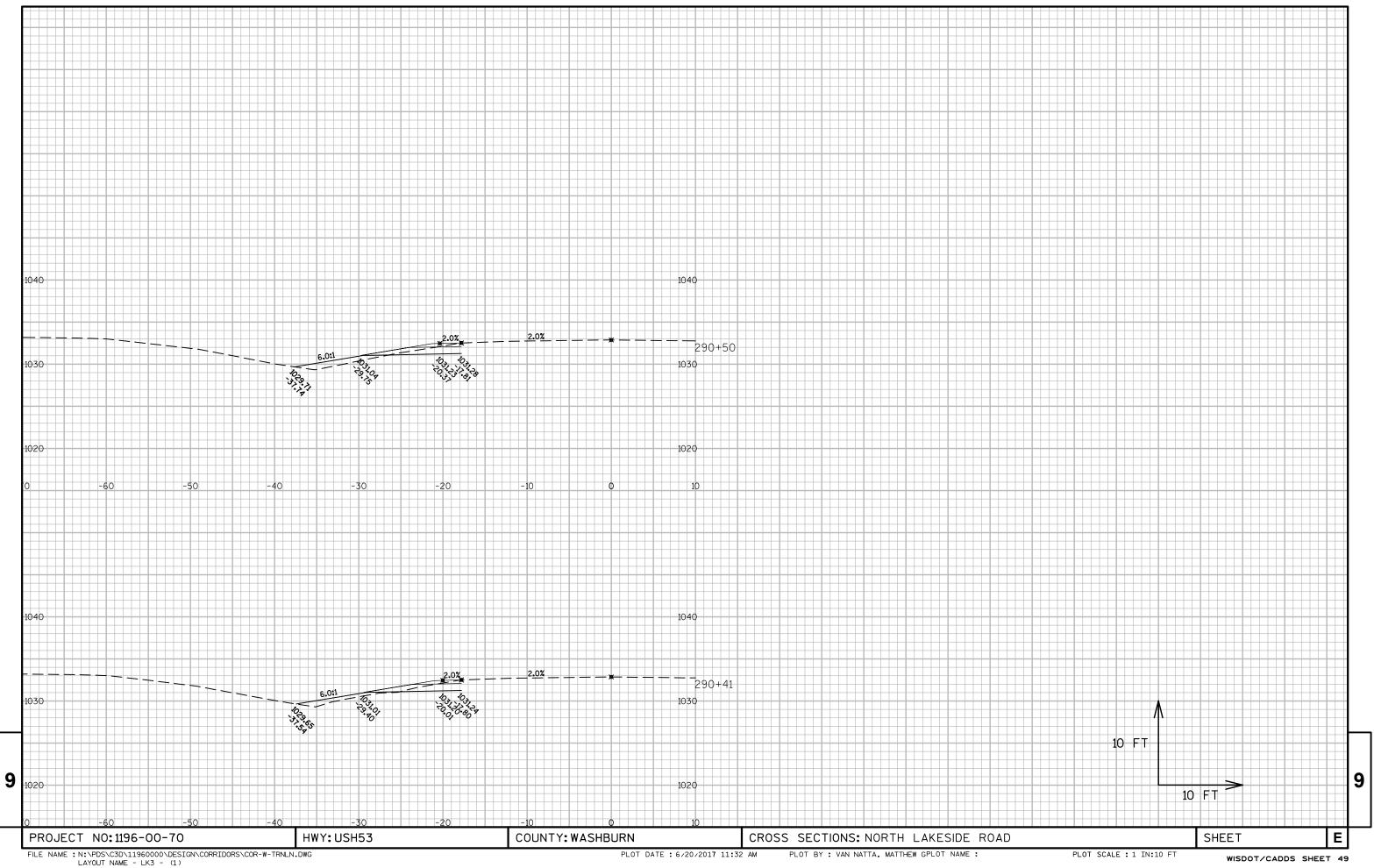


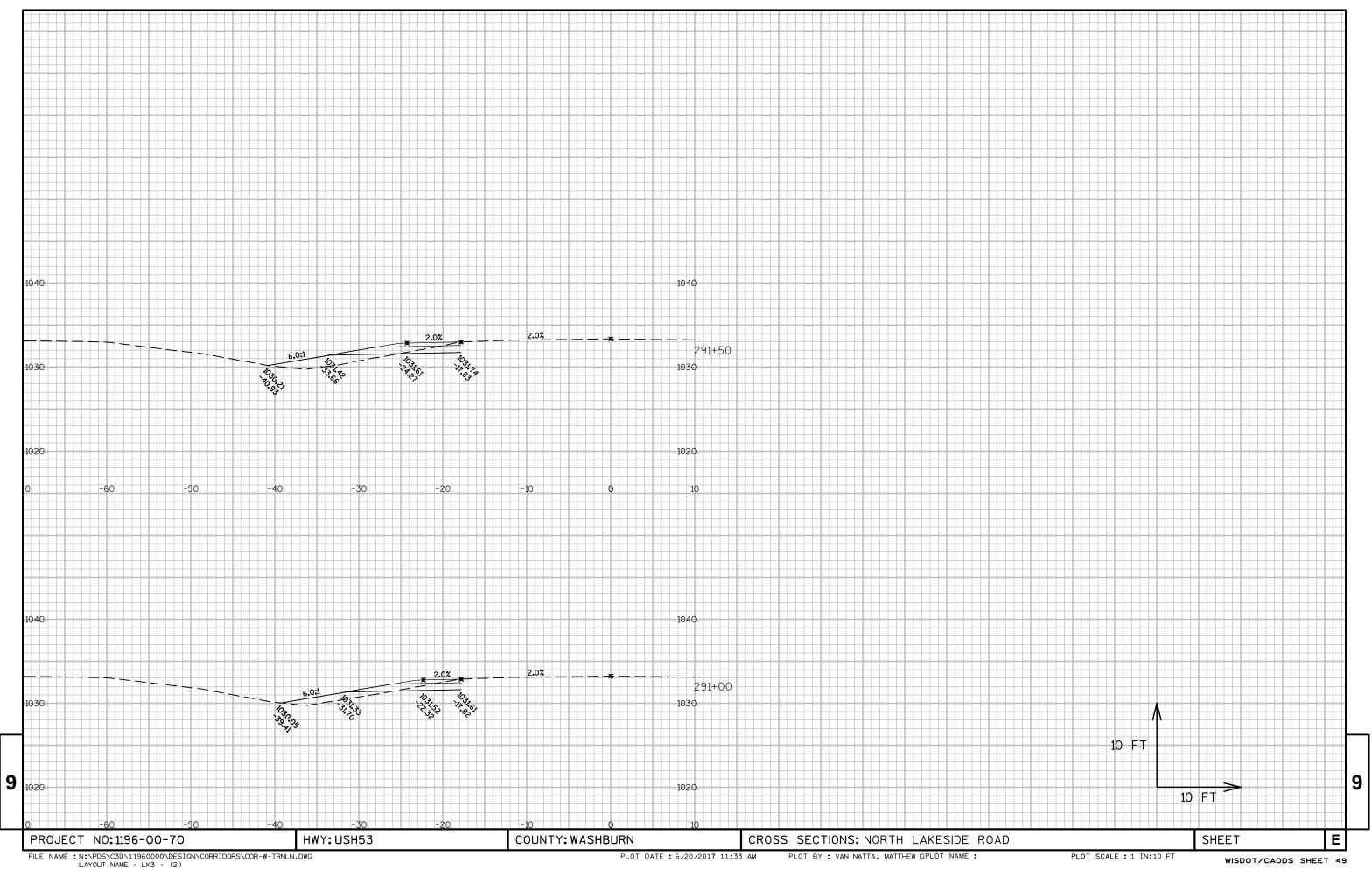


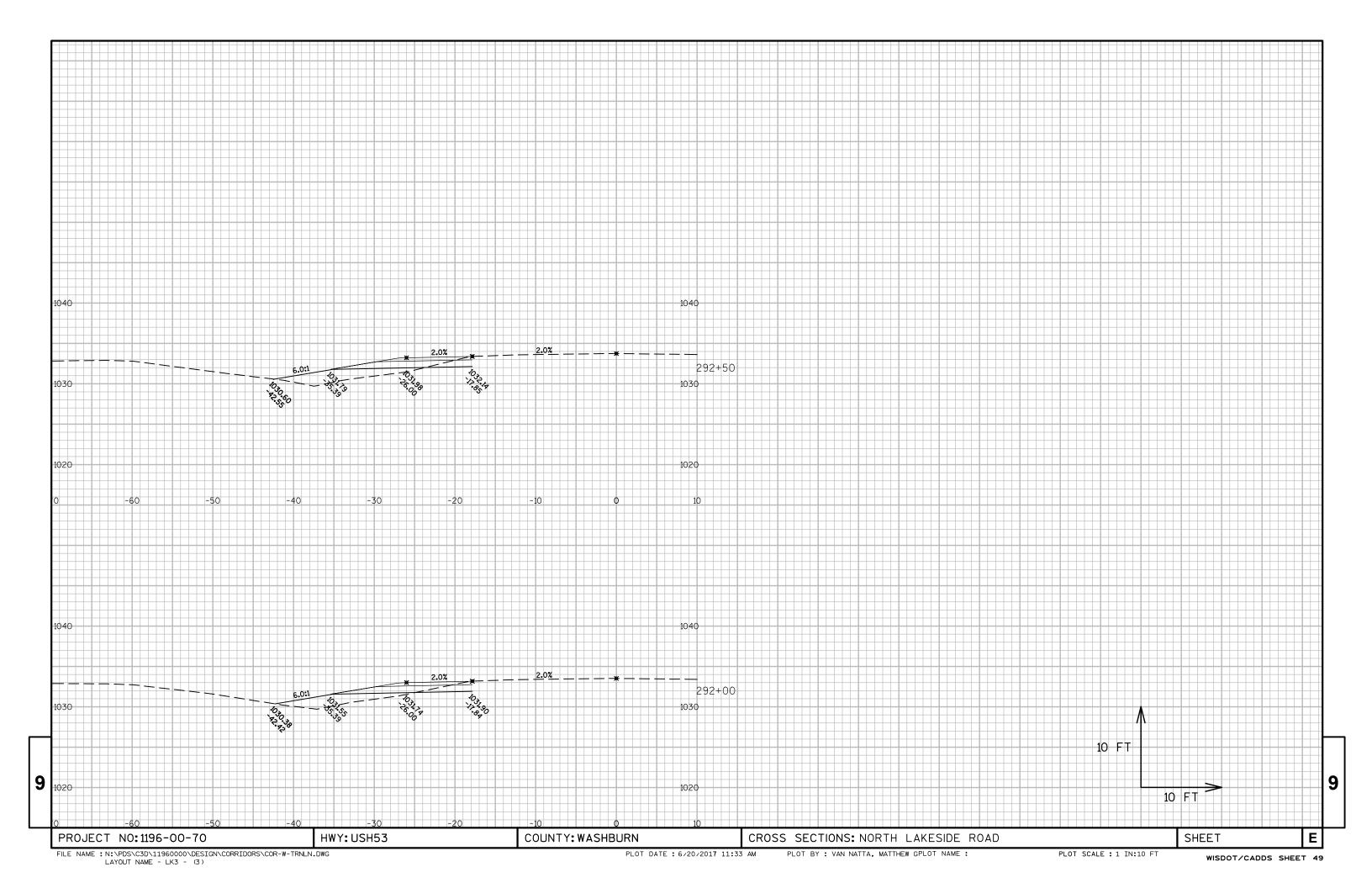


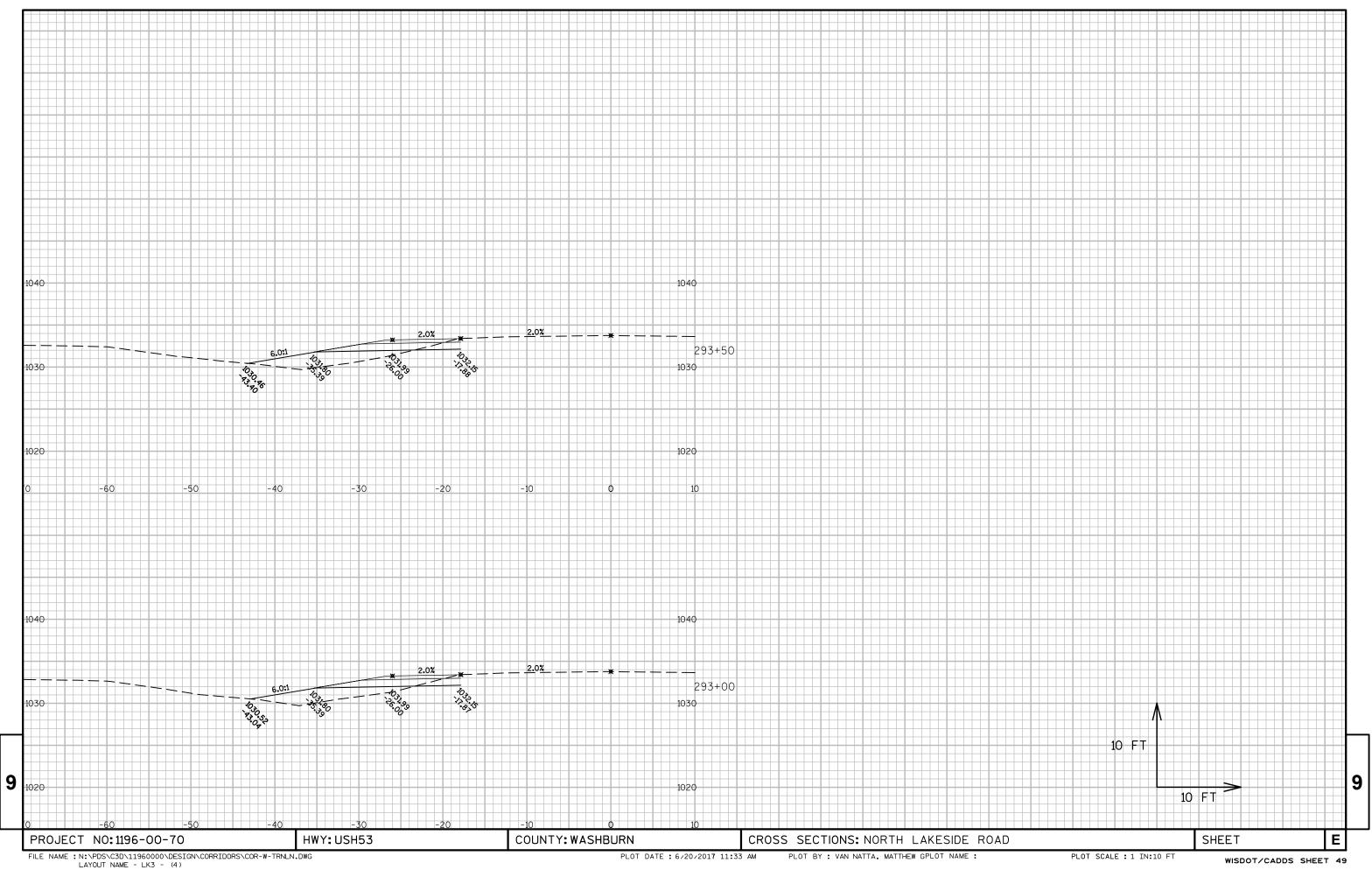


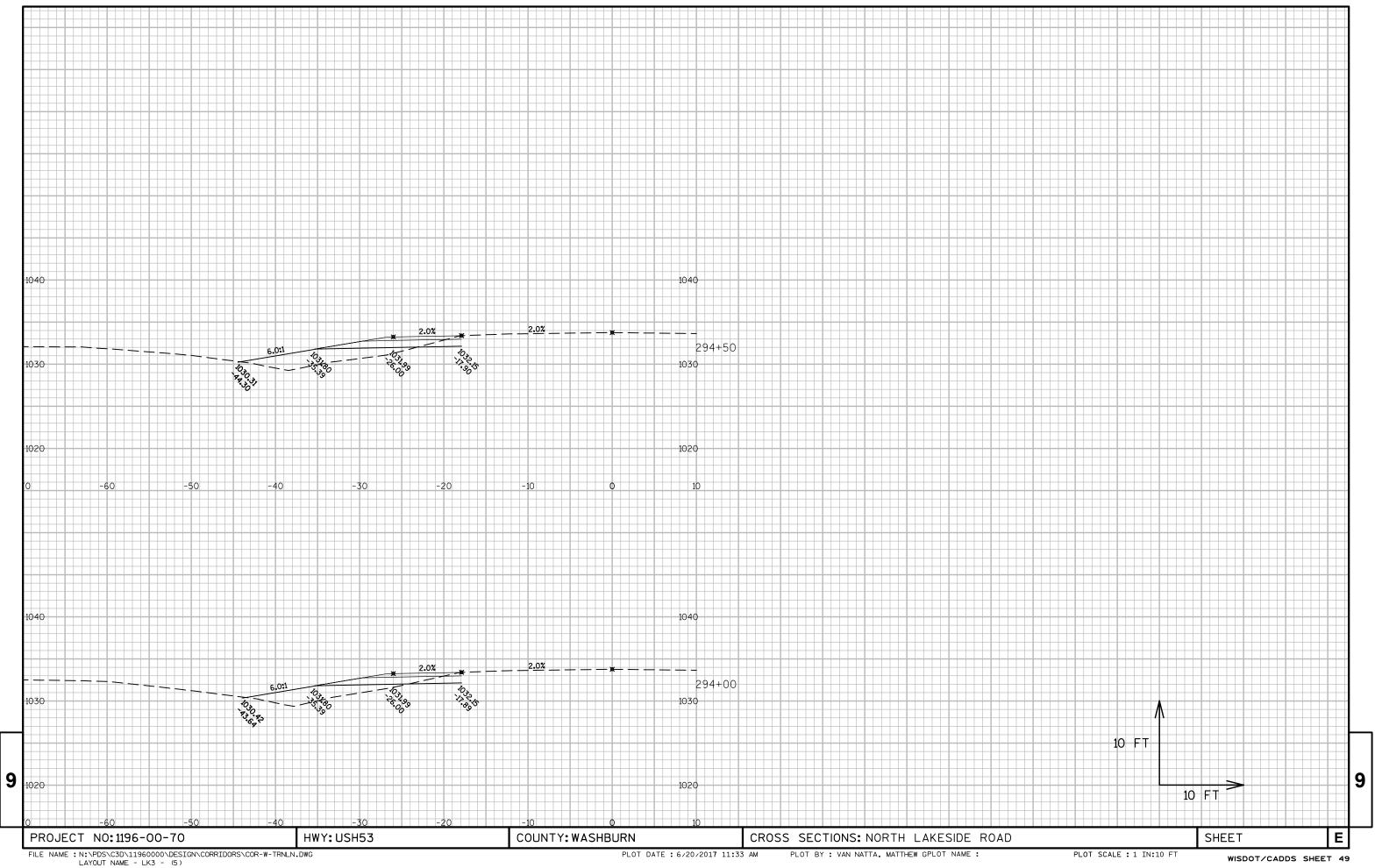


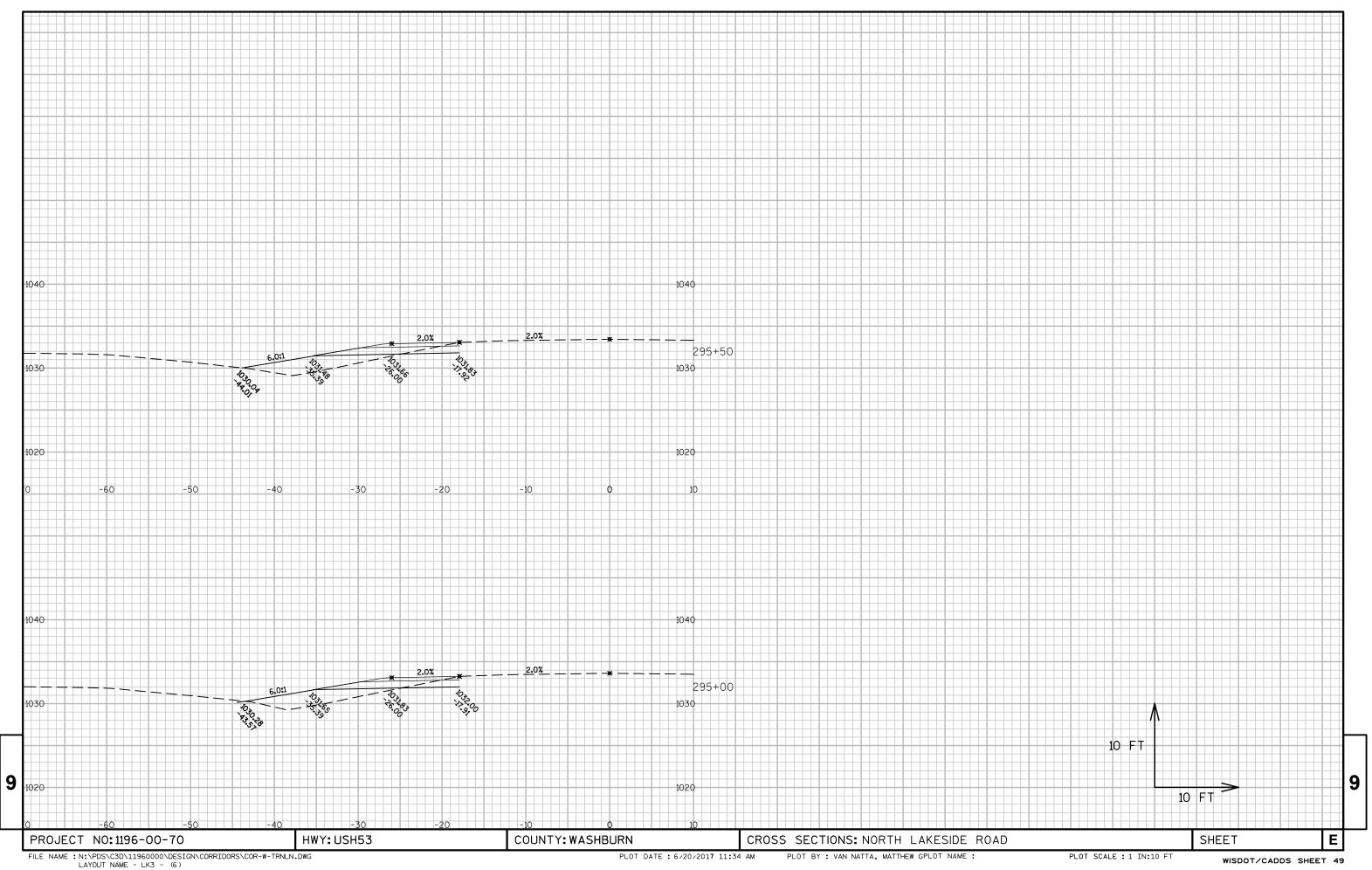


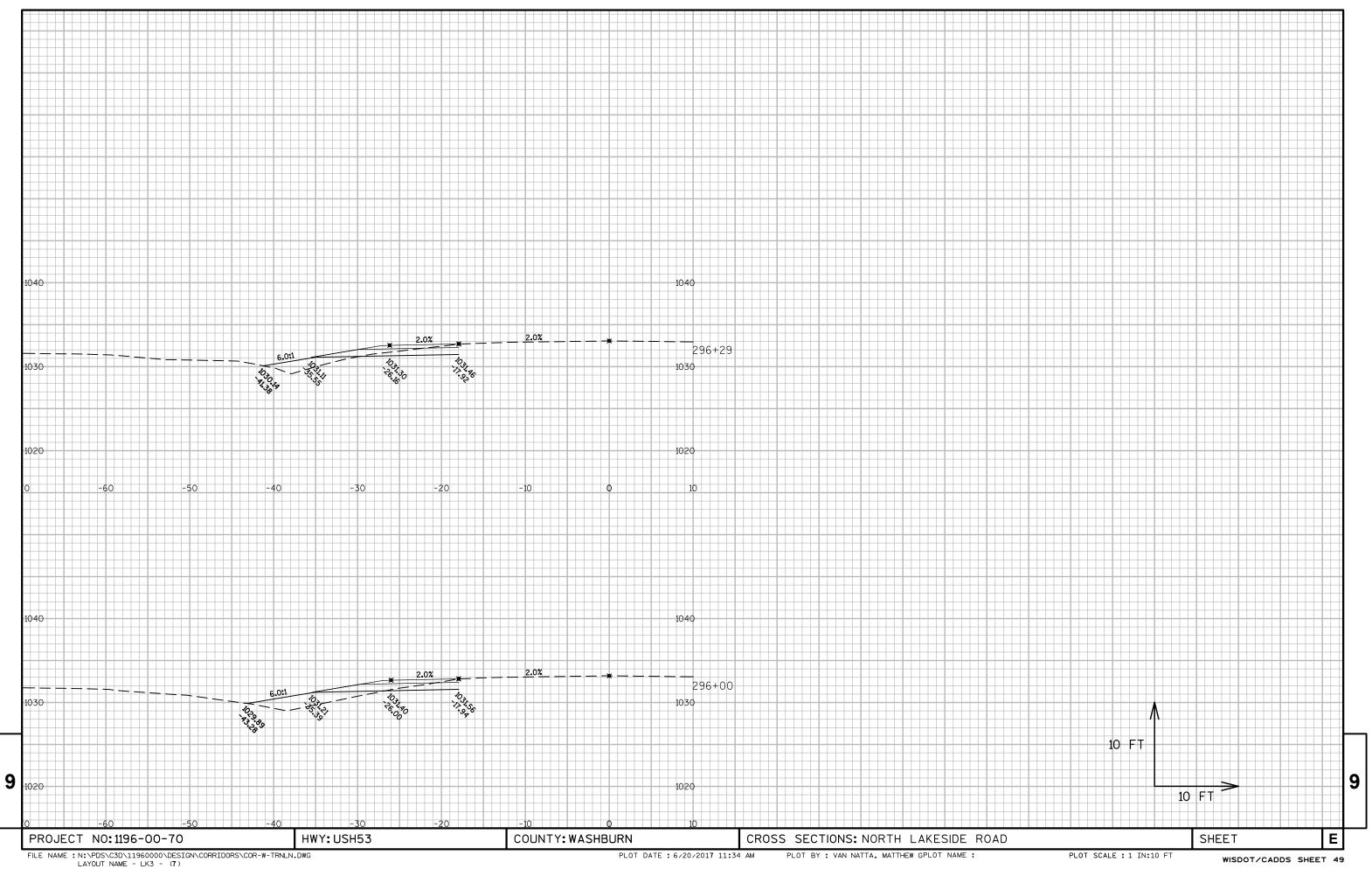


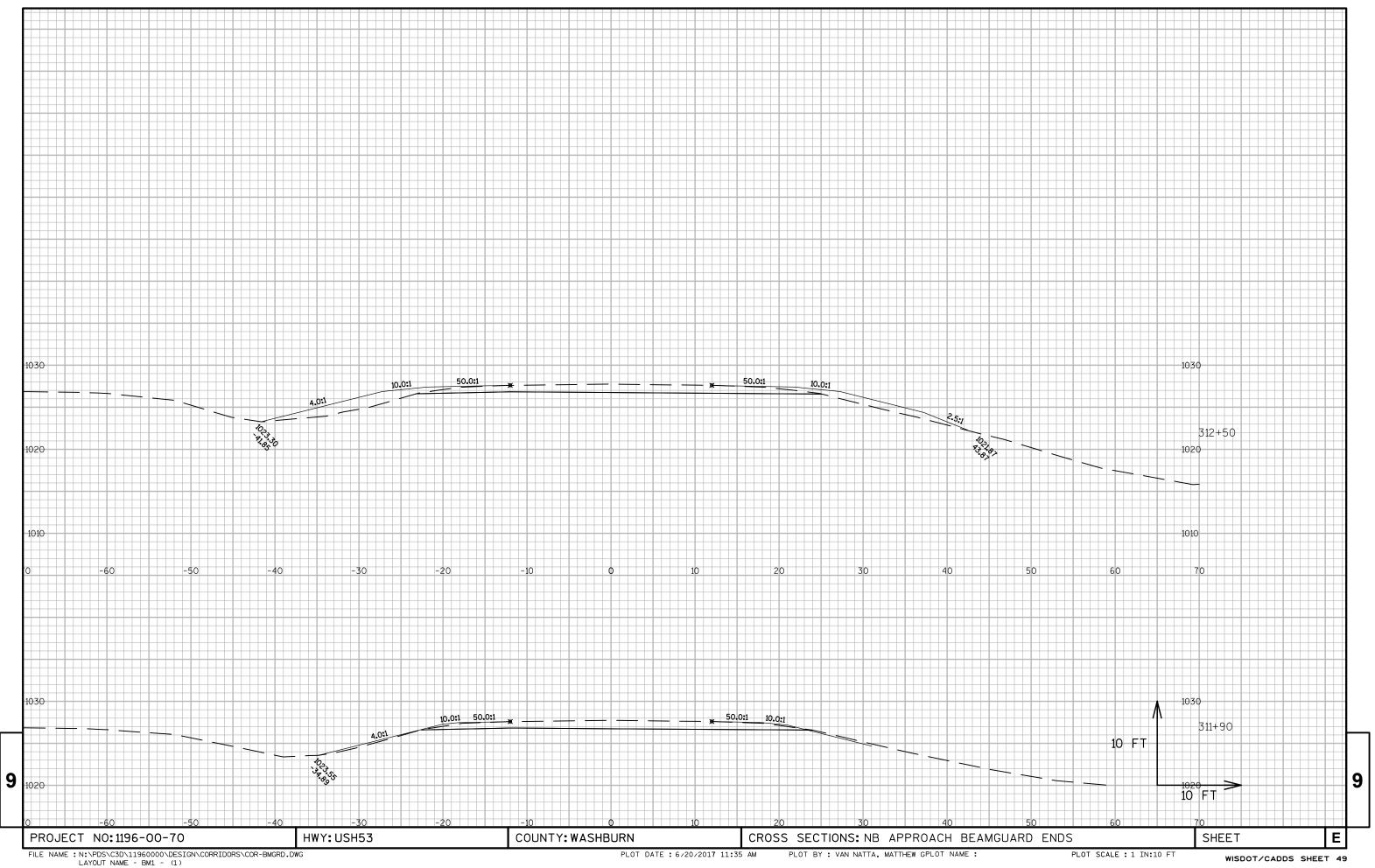


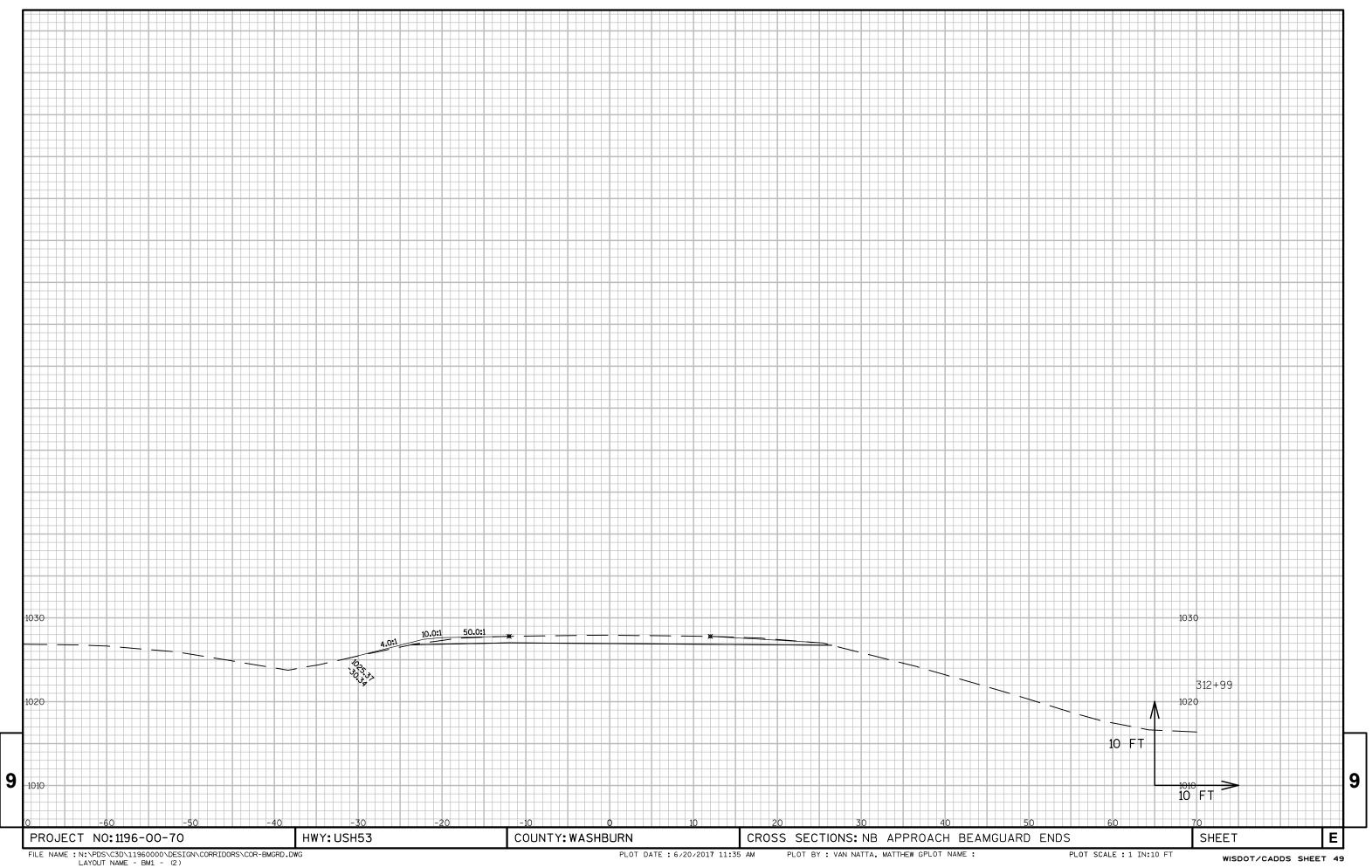


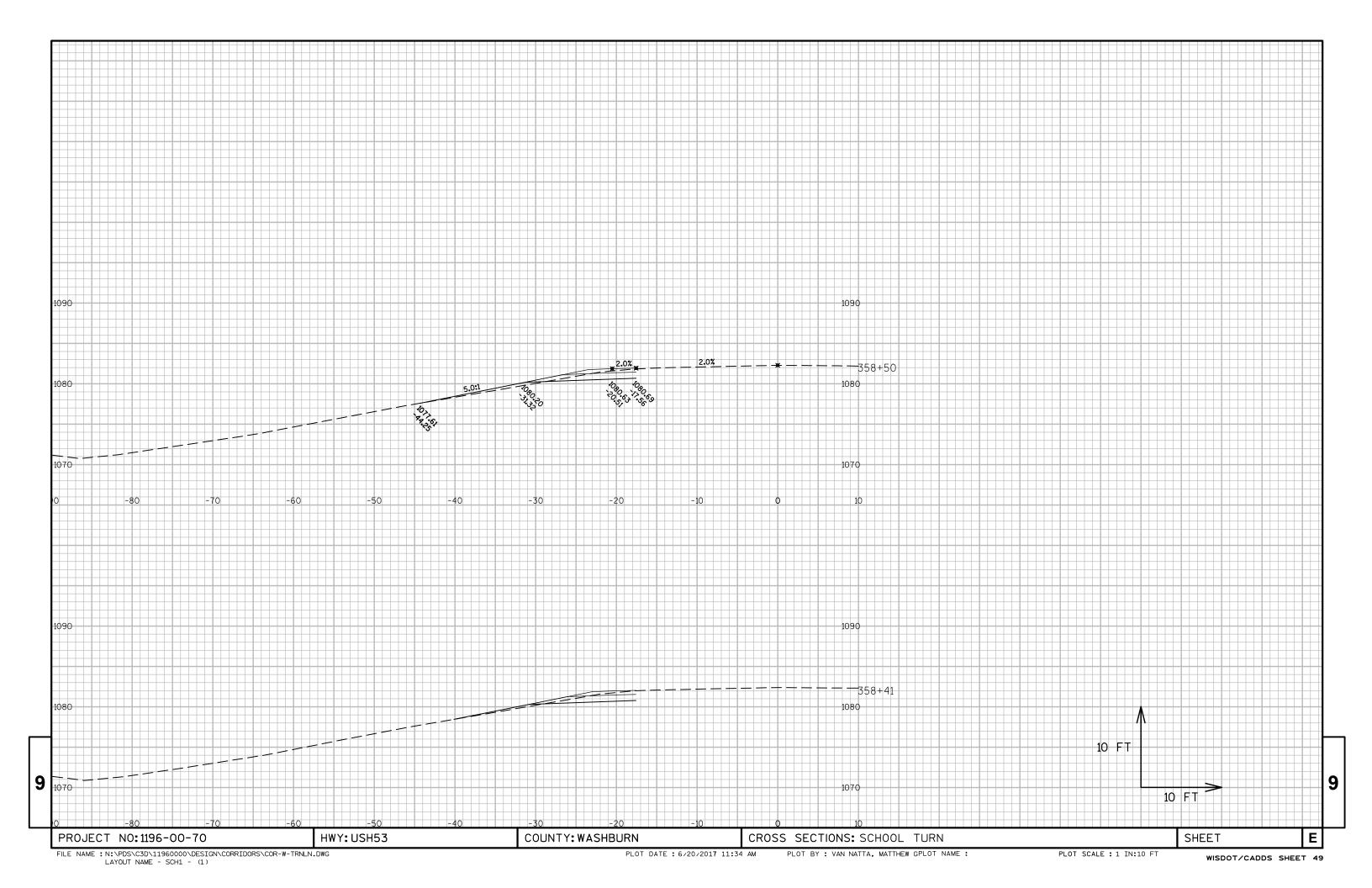


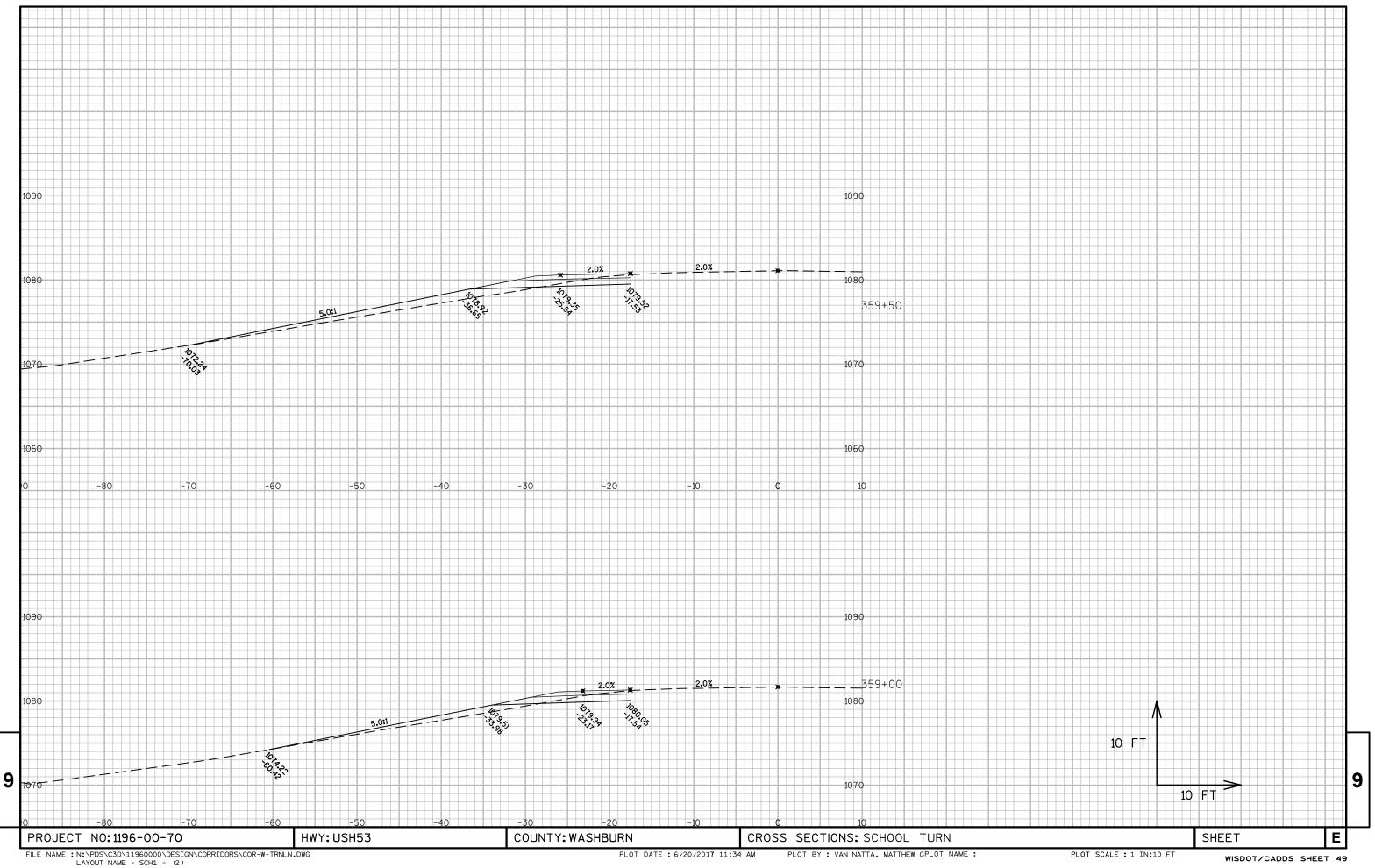


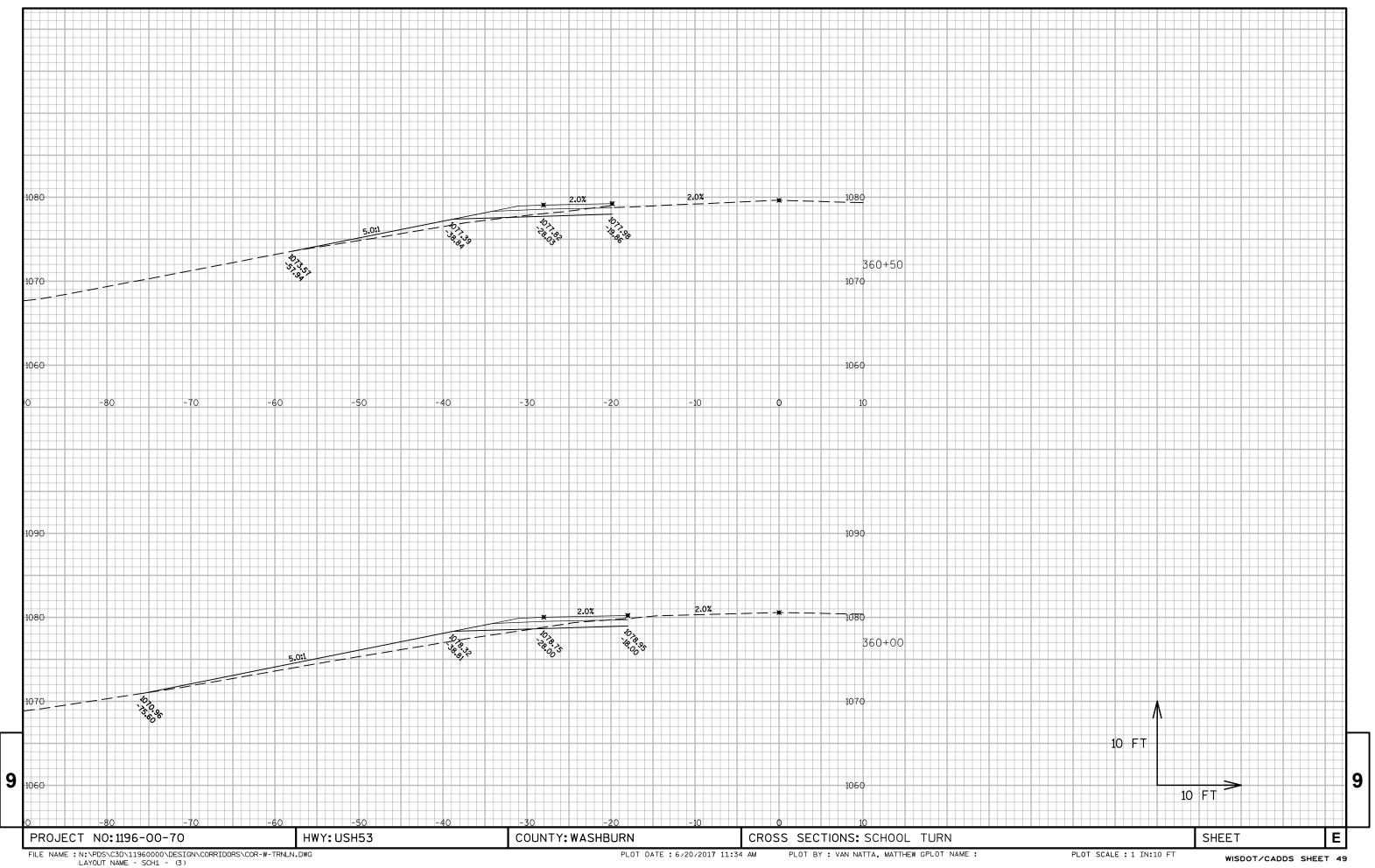


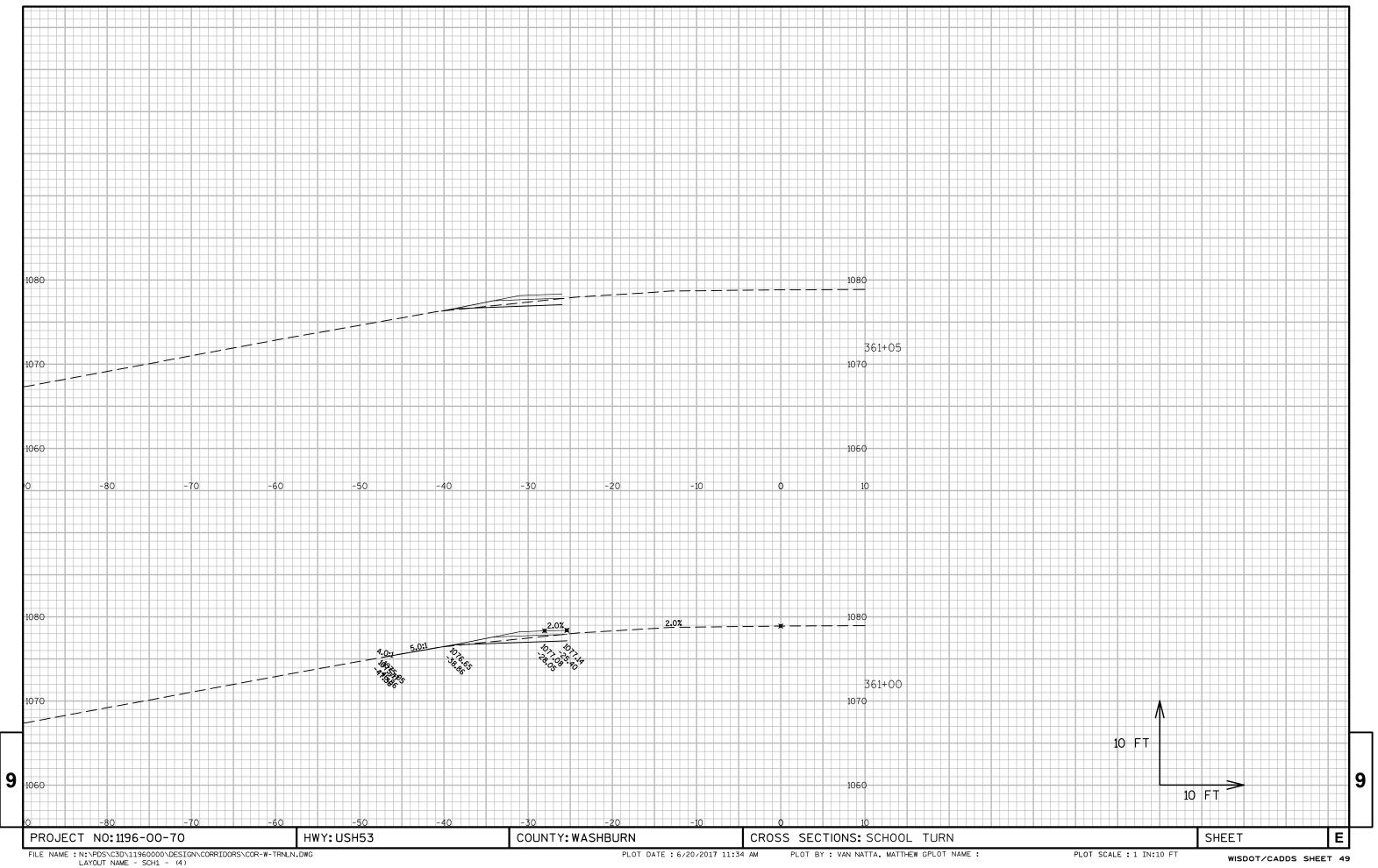


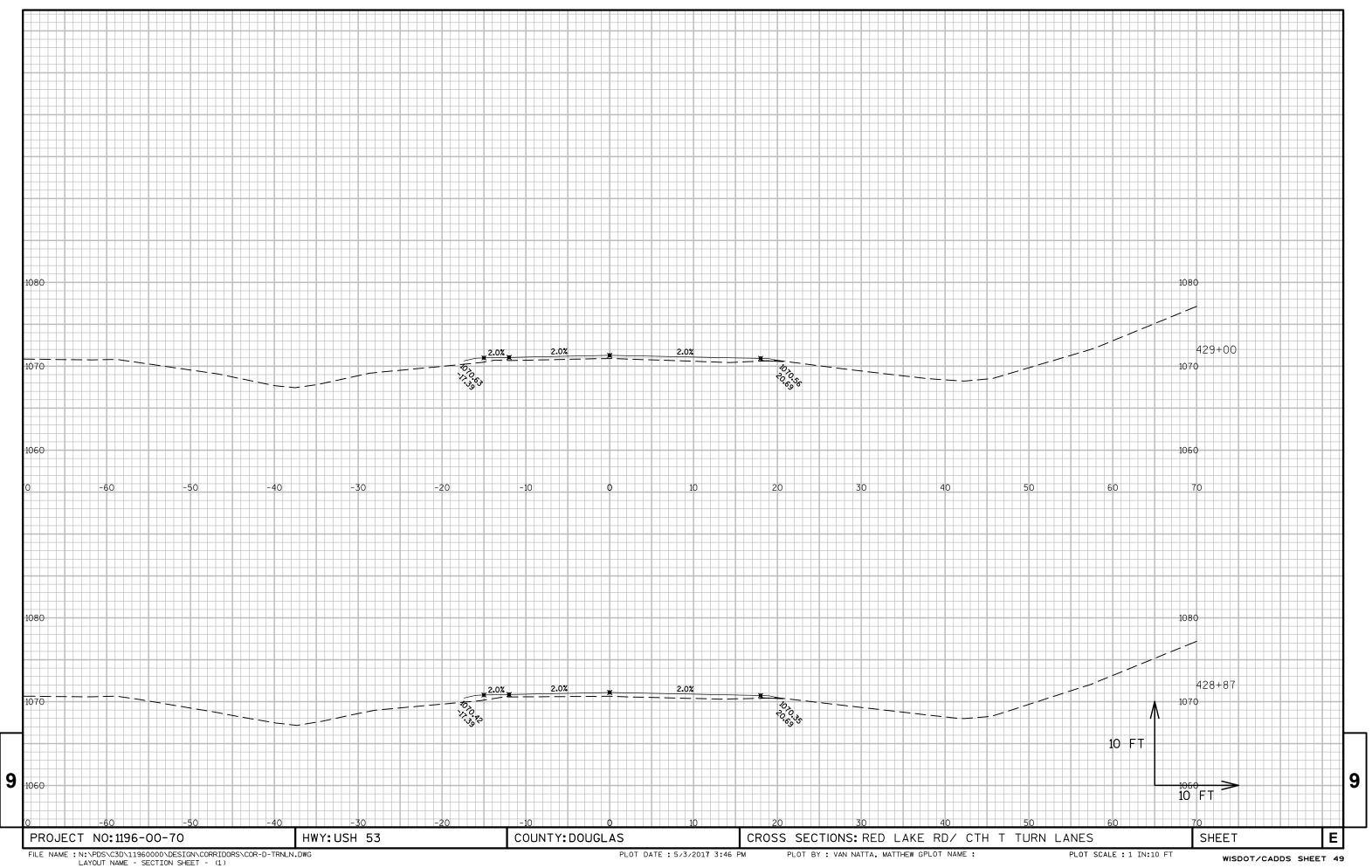


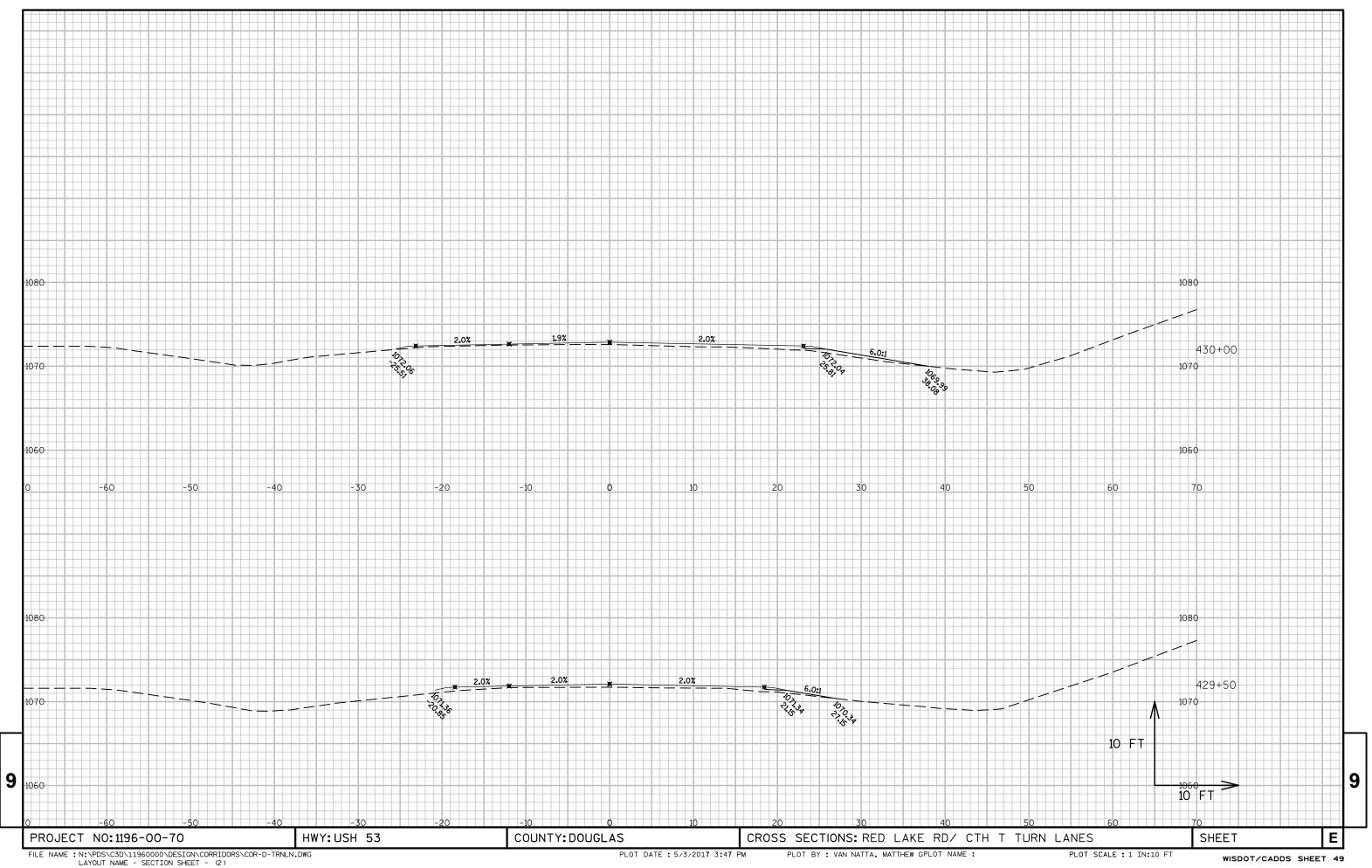


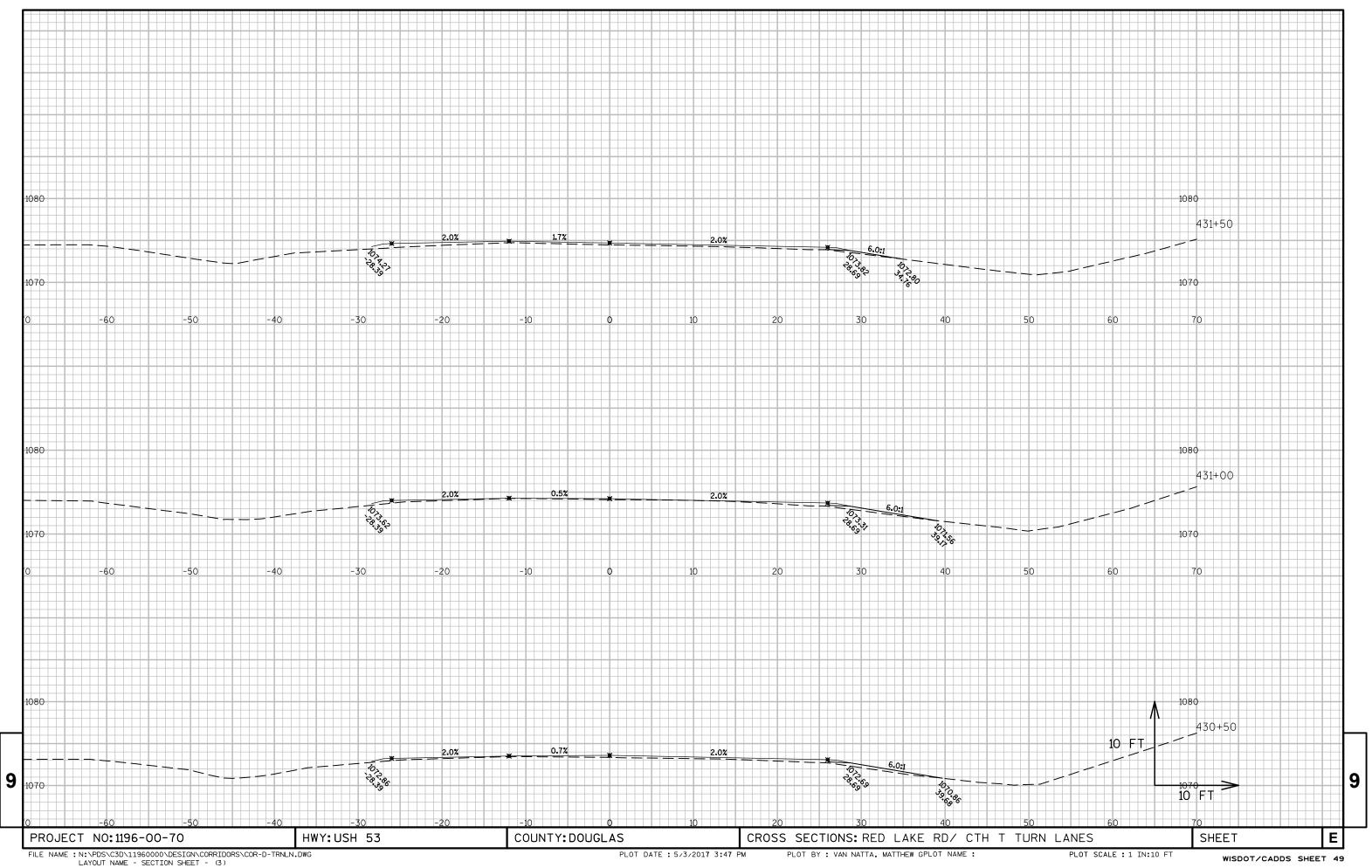


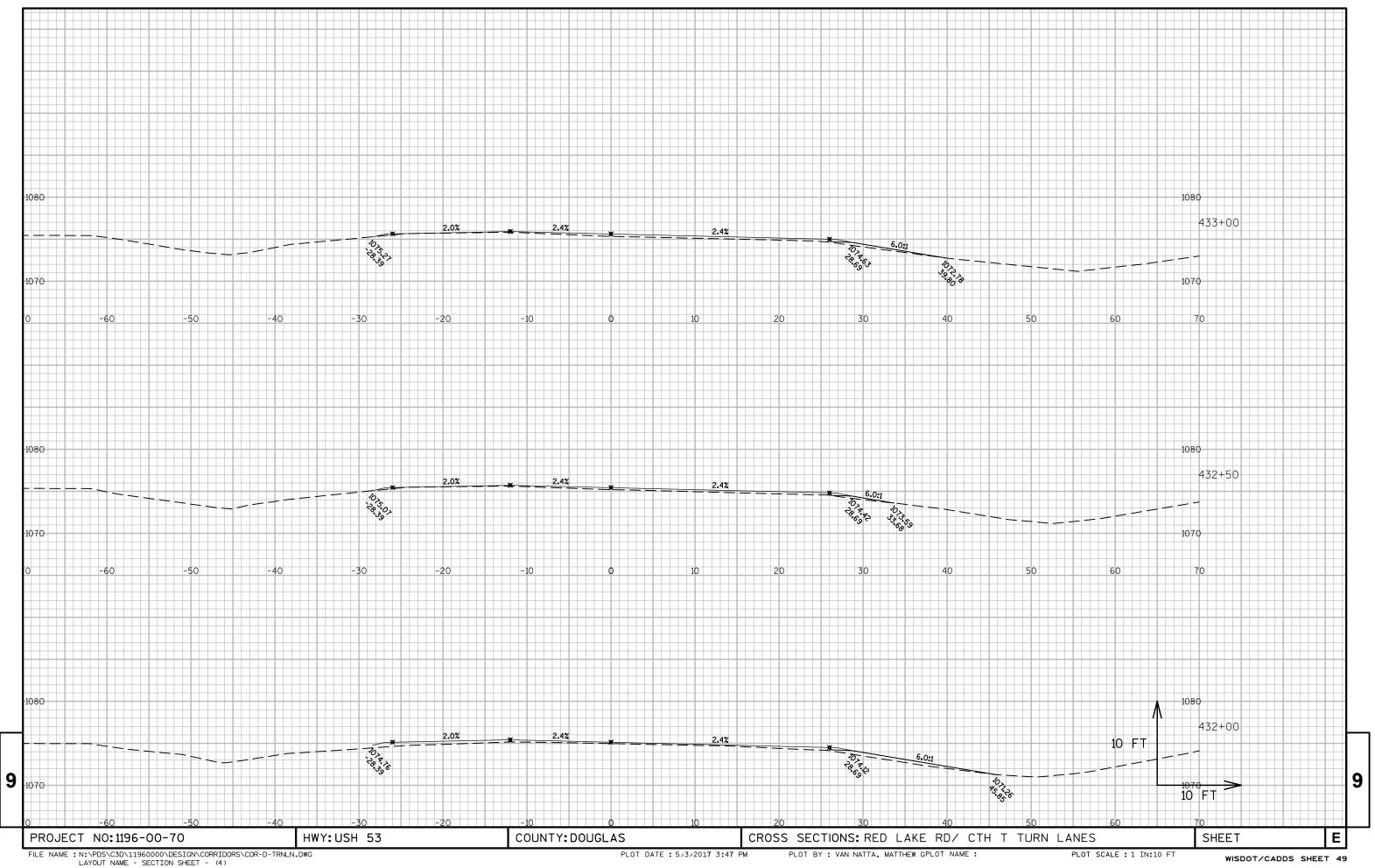


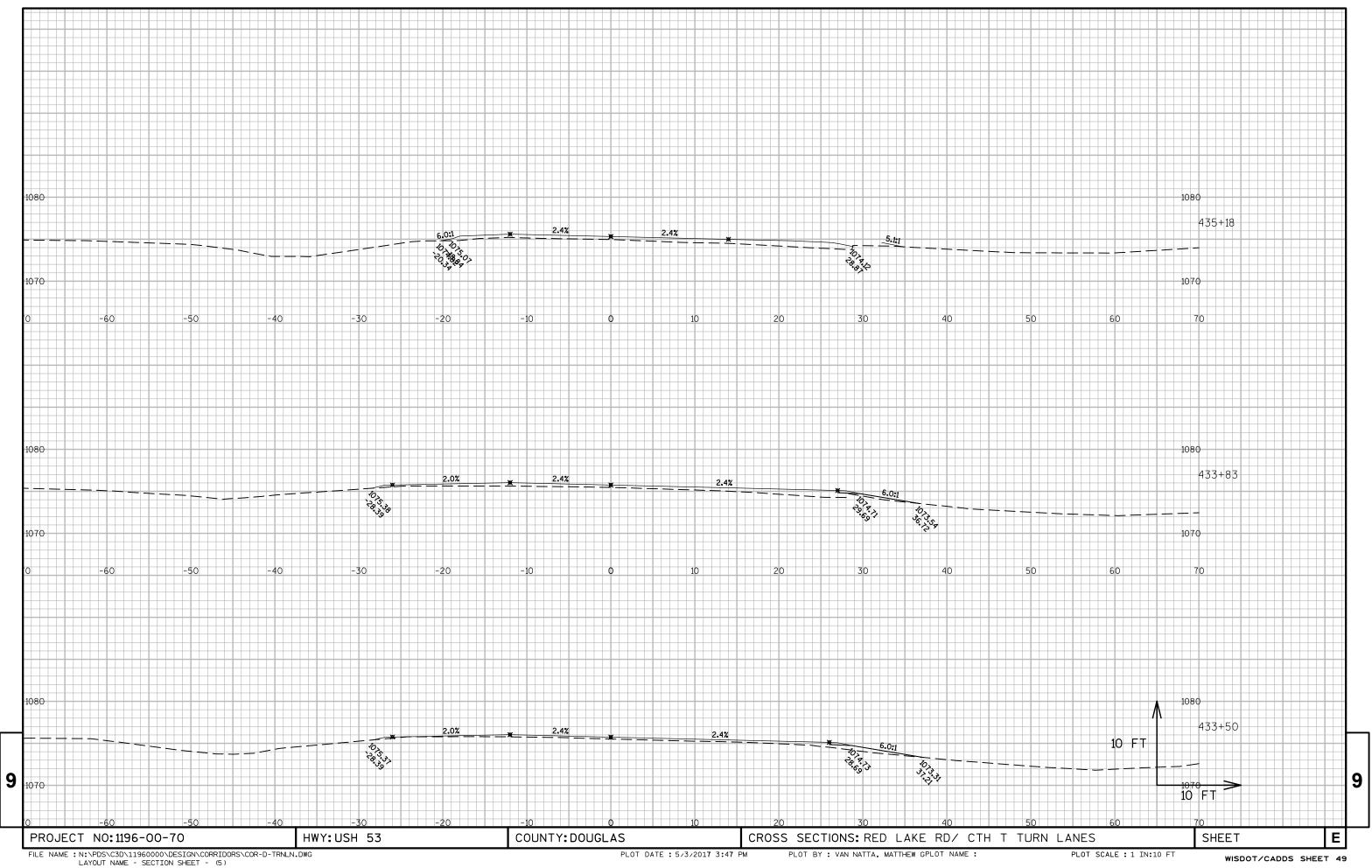


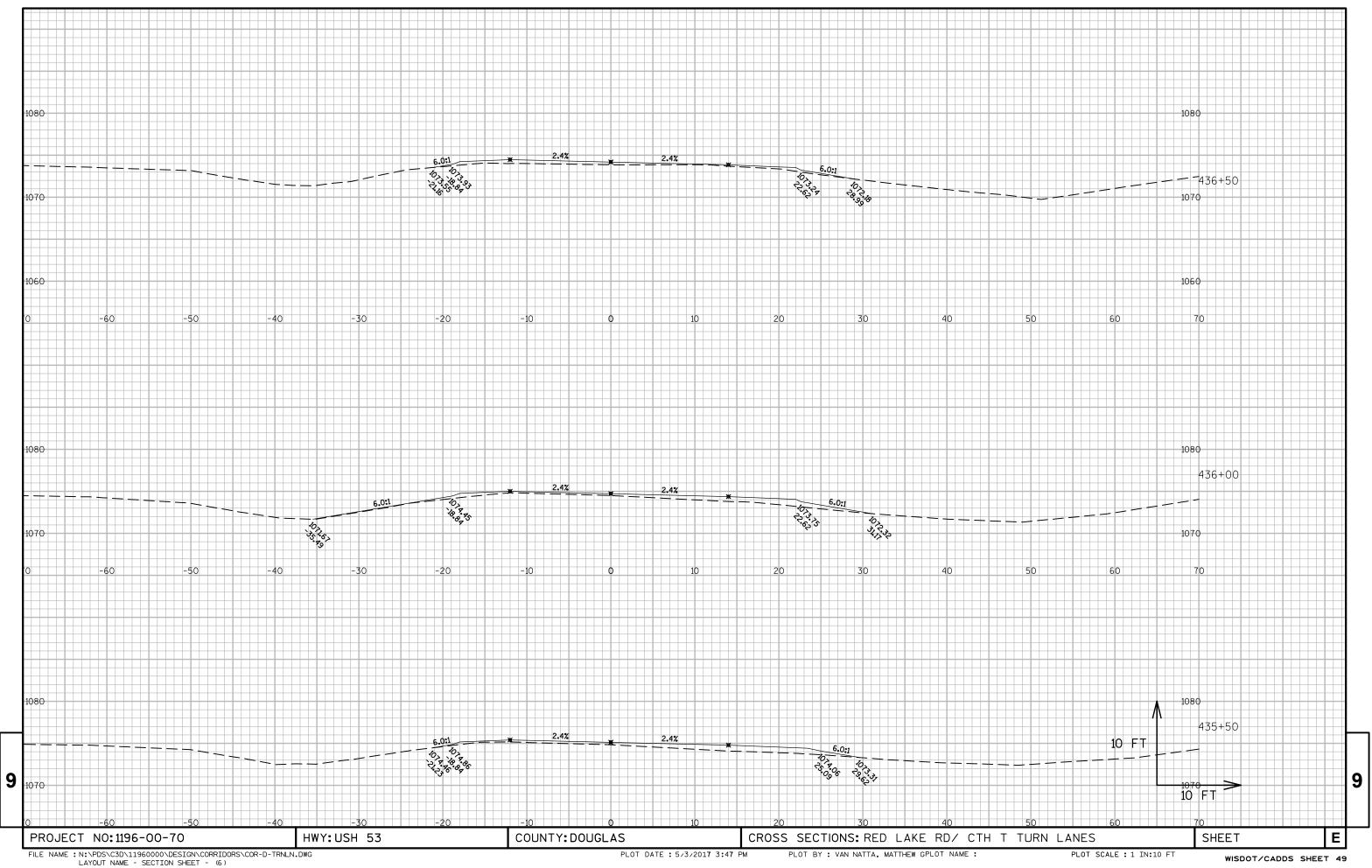


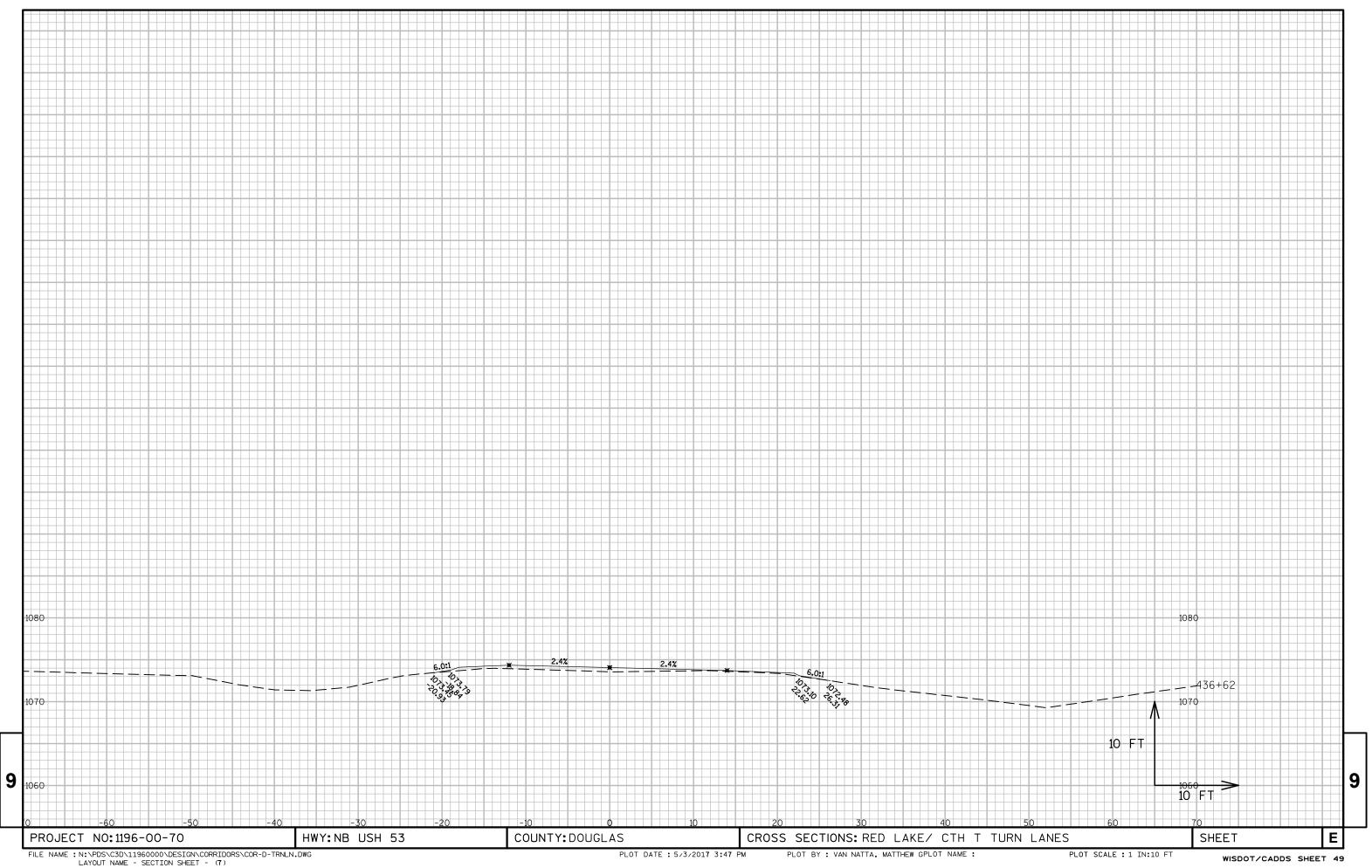














Wisconsin Department of Transportation

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