WOODED OR SHRUB AREA

APRIL 2020 STATE PROJECT STATE OF WISCONSIN ORDER OF SHEETS 1011-01-63 Title Section No. 1 DEPARTMENT OF TRANSPORTATION Typical Sections and Details Section No. 2 Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Section No. 5 Plan and Profile Standard Detail Drawings Section No. 6 Section No. 7 Sign Plates **MADISON - PORTAGE** Section No. 8 Structure Plans **PATTON ROAD BRIDGE/B-11-0018** IH 39 TOTAL SHEETS = 64 **COLUMBIA COUNTY** END PROJECT 1011-01-63 STA. 22+17.78 STATE PROJECT NUMBER X = E 548,160.9082 Y = N 305,793.4262 1011-01-63 B-11-0018 North _eeds (60)BEGIN PROJECT 1011-01-63 STA, 17+83,83 □ Goose DESIGN DESIGNATION X = E 547,818.1971 Y = N 305,527.2359 IH 39 PATTON RD = 59,900 A.A.D.T. = 75,100 265 = 59,900 N/A = 58,142 N/A = 32.82% 5% DESIGN SPEED = 70 MPH 36 35 MPH = N/A N/A Meek Road CONVENTIONAL SYMBOLS DM PROFILE GRADE LINE CORPORATE LIMITS Morrisonv ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE SLOPE INTERCEPT CULVERT (Profile View) UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC Norway PROPOSED CULVERT GAS (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT STORM SEWER 0.80 MI. HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY TELEPHONE SCALE COORDINATES, COLUMBIA COUNTY, NADB3 (97), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS. AND GRID

ORIGINAL PLANS PREPARED BY NIES E-39432 MADISON STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY WISDOT Surveyor WISDOT/CORRE, INC. JIM SIMPSON, PE Project Manager SW REGION Regional Examiner KURT JOHNSON, PE Regional Supervisor DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2020124

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

STANDARD ABBREVIATIONS

ABUT AGG ABUTMENT AGGREGATE ASPH AVG ASPHALTIC AVERAGE AADT

ANNUAL AVERAGE DAILY TRAFFIC BK BF BACK BACK FACE BASE LINE

BL or B/L ВM BENCH MARK BI K BL OCK BRIDGE CENTER LINE CL or C/L CC

CENTER TO CENTER CHORD CH BRG CHORD BEARING CONCRETE CONC COUNTY

COUNTY TRUNK HIGHWAY CTH CR CR CREEK

CRUSHED CABC CRUSHED AGGREGATE BASE COURSE CY or CUYD CUBIC YARD CULVERT PIPE

CURB AND GUTTER DEGREE OF CURVE C&G DHV DESIGN HOUR VOLUME DIAMETER

DWY DRIVEWAY EASTBOUND ELEC FL FCTRIC EQUIVALENT SINGLE AXLE LOADS

ELEC EL OT ELEV ESALS EXC EBS EXP FF EXCAVATION EXCAVATION BELOW SUBGRADE EXPANSION FACE TO FACE OR FRONT FACE FIELD ENTRANCE

FINISH GRADE FLASHING ARROW BOARD FG FAB or F/L Flow FLOW LINE

FTG FTMS FOOTING

FREEWAY TRAFFIC MANAGEMENT SYSTEM

HEIGHT HIGH EARLY STRENGTH HT HES CWT IRON PIPE OR PIN LIN FT or LF LINEAR FOOT LUMP SUM MН MANHOLE ML or M/L

MATCH LINE MESSAGE BOARD NOMINAL MB NOM NORTH NORTHBOUND POINT OF CURVATURE
POINT OF INTERSECTION
POINT OF TANGENCY
PORTLAND CEMENT CONCRETE PCC PRIVATE ENTRANCE

RADIUS or R/L REFERENCE LINE RIGHT RIGHT-OF-WAY R/W RD ROAD SHOULDER SHLDR SW SIDEWALK SOUTH SOUTHBOUND SB SPECS SF or SQ FT SY of SQ YD SPECIFICATIONS SQUARE FEET SQUARE YARD

STANDARD DETAIL DRAWINGS STATE TRUNK HIGHWAYS SDD STH STATION SUPERELEVATION STA SE TEL

UG VC VPI UNDERGROUND VERTICAL CURVE VERTICAL POINT OF INTERSECTION

WESTBOUND WB

CONSULTANT CONTACT

6510 GRAND TETON PLAZA, SUITE 314 MADISON, WI 53719 CHRIS NIES, P.E. 608-828-1011 cnies@correinc.com

DNR CONTACT

WISCONSIN DNR. SOUTH CENTRAL REGION ERIC HEGGELUND 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 OFFICE: (608) 275-3301 eric.heggelund@Wisconsin.gov

UTILITY CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION JEFFREY MADSON
433 W ST PAUL AVE, SUITE 300
MILWAUKEE, WI 53203 (414) 225-3723 jeffrey.madson@dot.wi.gov

FRONTIER COMMUNICATIONS OF WI, LLC RUSS RYAN PLEASANT VIEW DR. PLYMOUTH, WI 53073 (920) 583-3275 russell.w.ryan@ftr.com

or (800)242-8511

COUNTY: COLUMBIA

www.DiggersHotline.com

MICHAEL BROLIN 4902 N BILTMORE LANE, SUITE 1000 MADISON, WI 53718 (608) 395-7395 MichaelBrolin@alliantenergy.com

ALLIANT ENERGY

AT&T LEGACY - COMMUNICATIONS LINE KENNETH COLWELL 866 ROCK CREEK RD PLANO, IL 60545 (608) 628-0575 kc1298@att.com

ATC MANAGEMENT, INC. - ELECTRICITY MIKE OLSEN 801 O'KEEFE RD PO BOX 6113 DePERE, WI 54115-6113 (920) 338-6582 molsen@atclic.com

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE APPROXIMATE USGS DATUM.

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

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

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

CURVE DATA IS BASED ON THE ARC DEFINITION.

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOILED/TOPSOILED, FERTILIZED, AND SEEDED AND MULCHED.

BEARINGS SHOWN ON THE PLANS ARE GRID BEARINGS TO THE NEAREST SECOND.

THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO REMOVALS.

A LOWER LIFT OR LEVELING COURSE OF PAVEMENT WILL BE PAID AS ASPHALTIC SURFACE.

RUNOFF COEFFICIENT TABLE

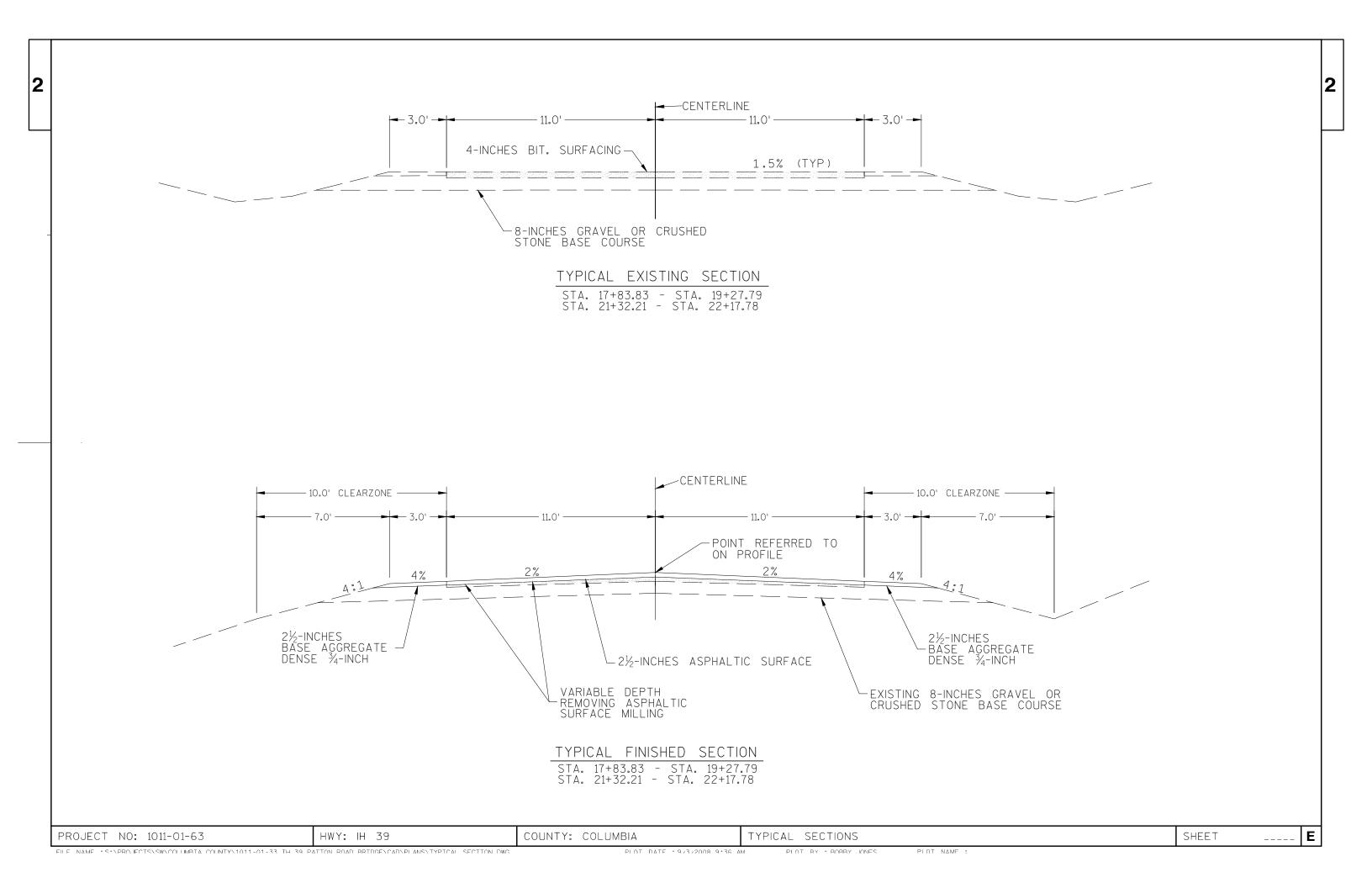
	HYDROLOGIC SOIL GROUP												
		Α			В			C	С		D		
	SLOPE	RANGE	(PERCENT)	SLOPE	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)				
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08	.16 .30	.22	.12	.20 .34	.27	.15 .30	.24	.33 .50	.19	.28	.38 .56	
MEDIAN STRIP- TURF	.19 .24	.20	.24	.19 .25	.22	.26 .33	.20 .26	.23	.30 .37	.20	.25 .32	.30	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28				
PAVEMENT:													
ASPHALT						.7095							
CONCRETE	.8095												
BRICK	.7080												
DRIVES, WALKS	KS .7585												
ROOFS	.7595												
GRAVEL ROADS,	GRAVEL ROADS, SHOULDERS .4060												

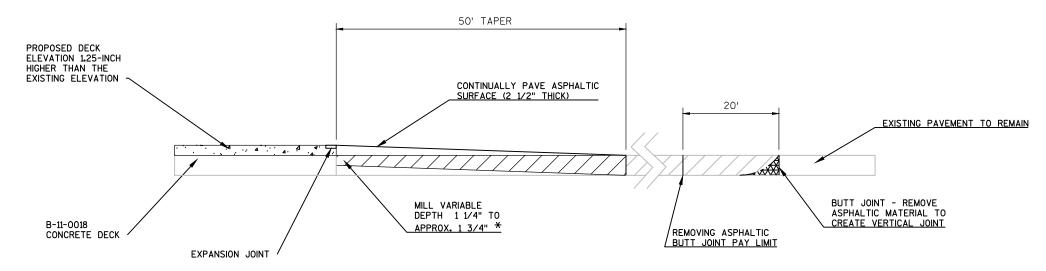
TOTAL PROJECT AREA = 0.28 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.40 ACRES

SHEET

PROJECT NO:1011-01-63 HWY: IH 39



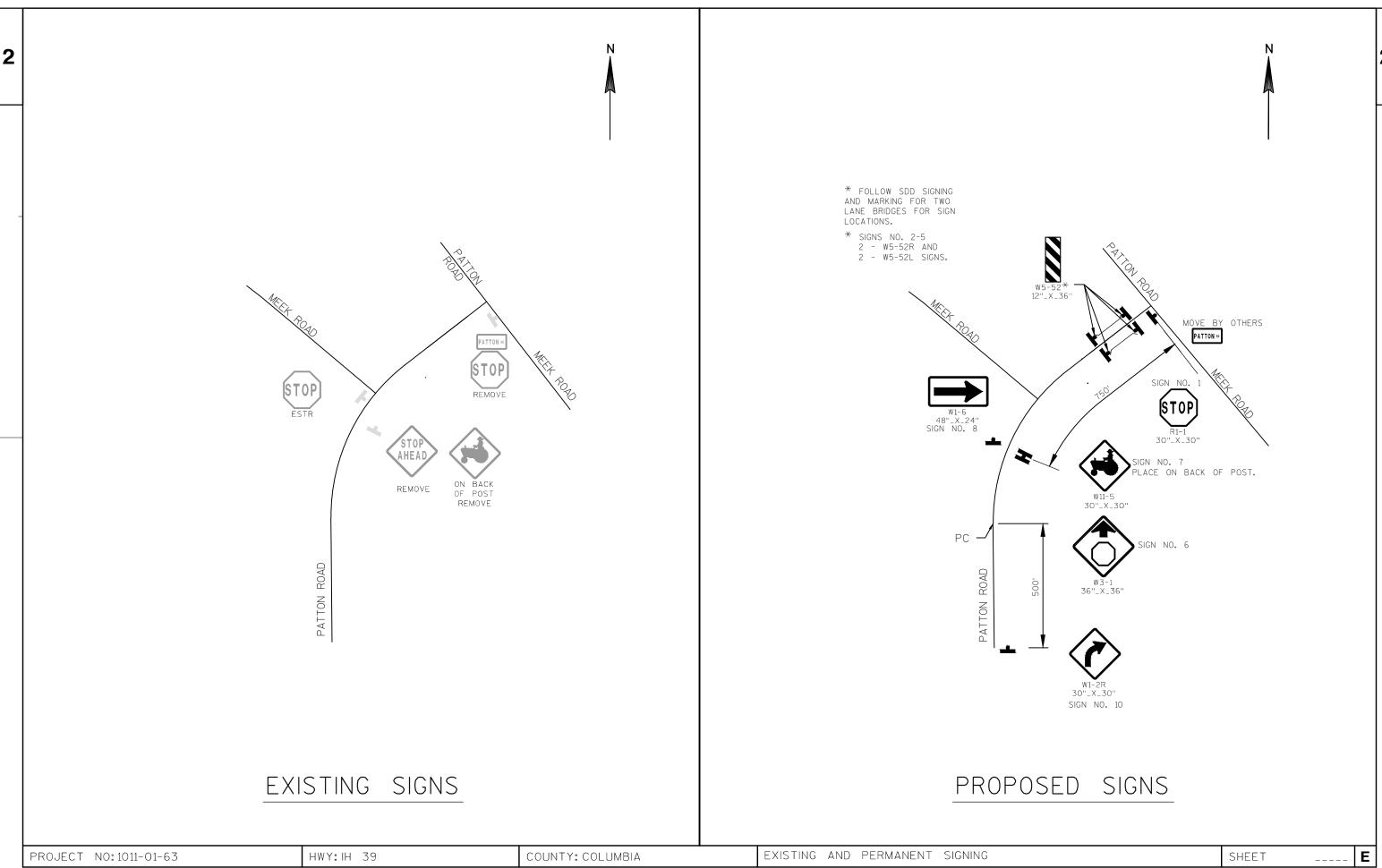


PAVING DETAIL AT CENTERLINE BUTT JOINT LOCATIONS

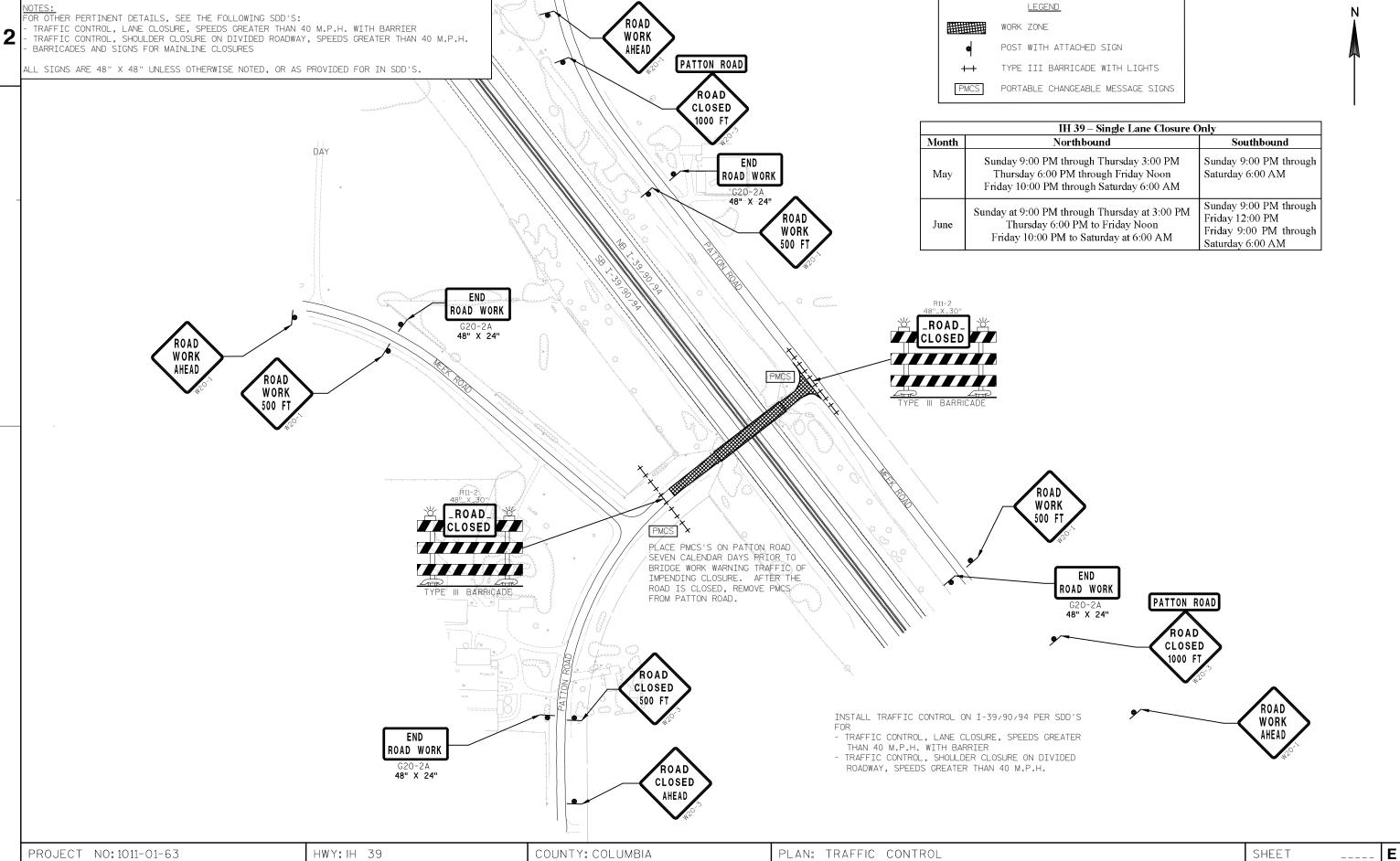
STA. 17+84 - STA. 18+04 STA. 21+98 - STA. 22+18

* ADJUST LATERAL MILL DEPTH TO CREATE 2% CROSS SLOPE WHILE MAINTAINING AT LEAST 4" OF TOTAL PAVEMENT STRUCTURE

PROJECT NO: 1011-01-63 HWY: IH 39 COUNTY: DANE CONSTRUCTION DETAILS SHEET E







	. age
1011-01-63	

					1011-01-63	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	2.000	2.000	
0004	201.0205	Grubbing	STA	2.000	2.000	
0006	204.0115	Removing Asphaltic Surface Butt Joints	SY	200.000	200.000	
8000	204.0120	Removing Asphaltic Surface Milling	SY	480.000	480.000	
0010	204.0165	Removing Guardrail	LF	246.000	246.000	
0012	204.0170	Removing Fence	LF	20.000	20.000	
0014	213.0100	Finishing Roadway (project) 01. 1011-01-63	EACH	1.000	1.000	
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	40.000	40.000	
0018	455.0605	Tack Coat	GAL	53.000	53.000	
0020	465.0105	Asphaltic Surface	TON	106.000	106.000	
0022	465.0315	Asphaltic Flumes	SY	8.000	8.000	
0024	502.2000	Compression Joint Sealer Preformed Elastomeric (width) 01. 2 1/4-Inch	LF	106.000	106.000	
0026	502.3101	Expansion Device (structure) 01. B-11-0018	LF	24.000	24.000	
0028	502.3200	Protective Surface Treatment	SY	830.000	830.000	
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	1,195.000	1,195.000	
032	506.5000	Bearing Assemblies Fixed (structure) 01. B-11-0018	EACH	18.000	18.000	
0034	506.7050.S	Removing Bearings (structure) 01. B-11-0018	EACH	18.000	18.000	
0036	509.0301	Preparation Decks Type 1	SY	20.000	20.000	
0038	509.0302	Preparation Decks Type 2	SY	10.000	10.000	
040	509.0500	Cleaning Decks	SY	551.000	551.000	
0042	509.1000	Joint Repair	SY	28.000	28.000	
044	509.1200	Curb Repair	LF	150.000	150.000	
046	509.1500	Concrete Surface Repair	SF	100.000	100.000	
048	509.2000	Full-Depth Deck Repair	SY	1.000	1.000	
050	509.2500	Concrete Masonry Overlay Decks	CY	42.000	42.000	
052	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,400.000	1,400.000	
054	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,400.000	1,400.000	
056	604.9015.S	Reseal Crushed Aggregate Slope Paving	SY	280.000	280.000	
058	614.0905	Crash Cushions Temporary	EACH	4.000	4.000	
060	616.0100	Fence Woven Wire (height) 01. 54-Inch	LF	20.000	20.000	
062	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1011-01-63	EACH	1.000	1.000	
064	619.1000	Mobilization	EACH	1.000	1.000	
066	624.0100	Water	MGAL	2.000	2.000	
0068	625.0500	Salvaged Topsoil	SY	200.000	200.000	
070	627.0200	Mulching	SY	200.000	200.000	
0072	628.1504	Silt Fence	LF	360.000	360.000	
0074	628.1520	Silt Fence Maintenance	LF	360.000	360.000	
0076	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	

Estimate Of Quantities

Page	2
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					1011-01-63
Line	Item	Item Description	Unit	Total	Qty
0078	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0800	628.2004	Erosion Mat Class I Type B	SY	100.000	100.000
0082	629.0210	Fertilizer Type B	CWT	0.130	0.130
0084	630.0120	Seeding Mixture No. 20	LB	6.000	6.000
0086	630.0200	Seeding Temporary	LB	6.000	6.000
8800	630.0500	Seed Water	MGAL	5.000	5.000
0090	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	6.000	6.000
0092	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	1.000	1.000
0094	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	1.000	1.000
0096	637.2210	Signs Type II Reflective H	SF	5.180	5.180
0098	637.2230	Signs Type II Reflective F	SF	41.500	41.500
0100	638.2602	Removing Signs Type II	EACH	3.000	3.000
0102	638.3000	Removing Small Sign Supports	EACH	2.000	2.000
0104	642.5001	Field Office Type B	EACH	1.000	1.000
0106	643.0300	Traffic Control Drums	DAY	1,220.000	1,220.000
0108	643.0420	Traffic Control Barricades Type III	DAY	548.000	548.000
0110	643.0705	Traffic Control Warning Lights Type A	DAY	664.000	664.000
0112	643.0715	Traffic Control Warning Lights Type C	DAY	436.000	436.000
0114	643.0800	Traffic Control Arrow Boards	DAY	76.000	76.000
0116	643.0900	Traffic Control Signs	DAY	1,508.000	1,508.000
0118	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0120	643.5000	Traffic Control	EACH	1.000	1.000
0122	650.8000	Construction Staking Resurfacing Reference	LF	230.000	230.000
0124	650.9910	Construction Staking Supplemental Control (project) 01. 1011-01-63	LS	1.000	1.000
0126	690.0150	Sawing Asphalt	LF	117.000	117.000
0128	SPV.0060	Special 01. Cleaning And Painting Bearings	EACH	18.000	18.000

3

CLEARING AND GRUBBING

REMOVING ASPHALTIC SURFACE BUTT JOINTS

REMOVING ASPHALTIC SURFACE MILLING

CLEARING	GRUBBING
(201.0105)	(201.0205)
,	,

		(201.0100)	(/
STATION TO STATION	LOCATION	(STA)	(STA)	REMARKS
19+00 - 20+00	LT / RT	1	1	5' BEYOND CLEAR ZONE
21+00 - 22+00	LT / RT	1	1	5' BEYOND CLEAR ZONE
TOTALS		2	2	

		(204.0115)	
STATION TO STATION	LOCATION	(SY)	REMARKS
17+84 - 18+04	PATTON RD	50	BUTT JOINT TO EXTEND 20 FT FROM SAWCUT
21+98 - 22+18	PATTON RD	150	BUTT JOINT TO EXTEND 20 FT FROM SAWCUT
TOTALS		200	

		(204.0120)	
STATION TO STATION	LOCATION	(SY)	REMARKS
18+04 - 19+26	PATTON RD	305	VARIABLE DEPTH
21+33 - 21+98	PATTON RD	175	VARIABLE DEPTH
TOTALS		480	

REMOVING GUARDRAIL

LOCATION	(LF)
SE QUADRANT	96
SW QUADRANT	50
NE QUADRANT	50
NW QUADRANT	50
TOTALS	246

FINISHING ROADWAY

PROJECT (EACH) 1011-01-63 1 TOTALS 1

BASE AGGREGATE DENSE 3/4-INCH

(305.0110)

STATION TO STATION	LOCATION	(TON)	REMARKS
17+84 - 19+26	LT / RT	20	SHOULDERS
21+33 - 22+18	LT / RT	20	SHOULDERS
TOTALS		40	

ASPHALTIC SURFACE ITEMS

			ASPHALTIC
		TACK COAT	SURFACE
		(455.0605)	(465.0105)
STATION TO STATION	LOCATION	(GAL)	(TON)
17+84 - 19+26	PATTON RD	28.0	55.0
21+33 - 22+18	PATTON RD	25.0	51.0
TOTALS		53.0	106.0

ASPHALTIC FLUMES

		(465.0315)
STATION TO STATION	LOCATION	(SY)
NE QUADRANT	LT	4
SE QUADRANT	RT	4
TOTALS		8

FENCE WOVEN WIRE (54-INCH)

	REMOVING	FENCE WOVEN
	FENCE	WIRE
	(204.0170)	(616.0100)
LOCATION	(LF)	(LF)
PROJECT	20	20
TOTALS	20	20

|--|

FILE NAME : _____ PLOT DATE : ____ PLOT BY : ____ PLOT NAME : ____ ORG DATE : ___ ORG DATE : ____ PLOT SCALE : 1:1

CONCRETE BARRIER TEMPORARY

CRASH CUSHIONS TEMPORARY

	CONCRETE BARRIER TEMPORARY PRECAST	CONCRETE BARRIER TEMPORARY PRECAST	CRASH CUSHIONS				
	DELIVERED	INSTALLED	TEMPORARY				CRASH
	(603.8000)	(603.8125)	(614.0905) BACK OBJECT MARKI	NG CRASH		TRAFFIC	CUSHION
LOCATION	(LF)	(LF)	LOCATION (EACH) WIDTH PATTERN	TEST LEVEL	TRAFFIC DIR.	LOC.	SHIELDS
SB IH 39/90 OUTSIDE EDGE	350	350	SB IH 39/90 OUTSIDE EDGE 1 2 OM-3R (W05-5	8R) TL-3	UNIDIRECTIONAL	LT	CBTP
SB IH 39/90 MEDIAN	350	350	SB IH 39/90 MEDIAN 1 2 OM-3L (W05-5	8L) TL-3	UNIDIRECTIONAL	RT	CBTP
NB IH 39/90 MEDIAN	350	350	NB IH 39/90 MEDIAN 1 2 OM-3L (W05-5	8L) TL-3	UNIDIRECTIONAL	RT	CBTP
NB IH 39/90 OUTSIDE EDGE	350	350	NB IH 39/90 OUTSIDE EDGE 1 2 OM-3R (W05-5	8R) TL-3	UNIDIRECTIONAL	LT	СВТР
TOTALS	1400	1400	TOTALS 4				

SILT FENCE

360

360

TOTALS

	3121 1 21	102		<u>M</u>	OBILIZATIO	<u>NS</u>			<u>EROSIO</u>	N MAT			TOPSOIL, MI	ULCHING, FER	TILIZER, & SEE	DING	
			SILT FENCE				WA	<u>TER</u>									
		SILT FENCE	MAINTENANCE		EROSION	EMERGENCY				CLASS I		SALVAGED		FERTILIZER	SEEDING MIX	SEEDING	
		(628.1504)	(628.1520)		CONTROL	EROSION		WATER		TYPE B		TOPSOIL	MULCHING	TYPE B	NO. 20	TEMPORARY	SEED WATER
STATION TO STATION	LOCATION	l (LF)	(LF)		(628.1905)	CONTROL		(624.0100)		(628.2004)		(625.0500)	(627.0200)	(629.0210)	(630.0120)	(630.0200)	(630.0500)
21+33 - 22+18	LT	140	140	PROJECT	(EACH)	(628.1910)	LOCATION	(MGAL)	LOCATION	(SY)	LOCATION	(SY)	(SY)	(CWT)	(LB)	(LB)	(MGAL)
21+33 - 22+18	RT	120	120	1011-01-63	2	2	PROJECT	2	PROJECT	100	PROJECT	200	200	0.13	6	6	5
UNDISTRIBUTED		100	100	TOTALS	2	2	TOTALS	2	TOTALS	100	TOTALS	200	200	0.13	6	6	5

SIGNS REFLECTIVE TYPE II ON SIGN POSTS

POSTS WOOD POSTS WOOD SIGNS TYPE II SIGNS TYPE II 4x6-INCH 12-FT 4x6-INCH 14-FT 4x6-INCH 16-FT REFLECTIVE H REFLECTIVE F

					WIDTH	HEIGHT	(634.0612)	(634.0614)	(634.0616)	(637.2210)	(637.2230)	
SIGN NO	SIGN CODE	SIGN MESSAGE	STATION	LOCATION	(INCHES)	(INCHES)	(EACH)	(EACH)	(EACH)	(SF)	(SF)	REMARKS
1	R1-1	STOP	22+05	RT	30	30	1			5.18		
2	W5-52L	BRIDGE MARKER	21+50	LT	12	36	1				3.00	
3	W5-52R	BRIDGE MARKER	21+50	RT	12	36	1				3.00	
4	W5-52L	BRIDGE MARKER	19+15	LT	12	36	1				3.00	
5	W5-52R	BRIDGE MARKER	19+15	RT	12	36	1				3.00	
6	W3-1	STOP AHEAD	14+55	RT	36	36			1		9.00	
7	W11-5	FARM MACHINERY	14+55	RT	30	30					6.25	SHARES POST WITH SIGN 6
8	W1-6	NIGHT ARROW	14+55	LT	48	24	1				8.00	PLACE BEHIND MAILBOXES
9												
10	W1-2R	CURVE AHEAD		RT	30	30		1			6.25	500' SOUTH OF PATTON RD CURVE
TOTALS							6	1	1	5.18	41.5	

HWY: IH 39 **COUNTY: COLUMBIA MISCELLANEOUS QUANTITIES** SHEET: Ε PROJECT NO: 1011-01-63 FILE NAME : _____ PLOT NAME : _____ PLOT SCALE: 1:1

PLOT DATE : _____ PLOT BY : _____ ORIGINATOR:_____ ORG DATE : _____

REMOVING SMALL SIGN
SIGNS TYPE II SUPPORTS
(638 2602) (638 3000)

(638.2602) (638.3000)

STATION	LOCATION	SIGN MESSAGE	(EACH)	(EACH)
14+50	RT	STOP AHD / FARM MACHINERY	2	1
22+05	RT	STOP	1	1
TOTALS			3	2

(642.5001)

LOCATION (EACH)

PROJECT 1

TOTALS 1

TRAFFIC CONTROL ITEMS

				BAR	RICADES	WARNII	NG LIGHTS	WARNI	NG LIGHTS	Al	RROW			
		<u>D</u>	<u>RUMS</u>	<u>T</u>	YPE III	<u>TY</u>	PE A	<u>T</u>	YPE C	BC	<u>DARDS</u>	<u>S</u>	<u>IGNS</u>	TRAFFIC CONTROL
			PAY		PAY		PAY		PAY		PAY		PAY	
	SERVICE		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY	
	PERIOD	NO. IN	(643.0300)	NO. IN	(643.0420)	NO. IN	(643.0705)	NO. IN	(643.0715)	NO. IN	(643.0800)	NO. IN	(643.0900)	(643.5000)
LOCATION	(DAYS)	SERVICE	(DAYS)	SERVICE	(DAYS)	SERVICE	(DAYS)	SERVICE	(DAYS)	SERVICE	(DAYS)	SERVICE	(DAYS)	(EACH)
PATTON ROAD	54			10	540	12	648					18	972	
IH-39 (SHOULDER CLOSURE)	30	30	900					10	300	2	60	16	480	
IH-39 (LANE CLOSURE)	4	80	320	2	8	4	16	34	136	4	16	14	56	
PROJECT														1
TOTALS			1220		548		664		436		76		1508	1

CONSTRUCTION STAKING

PORTABLE CHANGEABLE MESSAGE SIGN

SERVICE NO.IN
PERIOD SERVICE (643.1050)
LOCATION (DAYS) (EACH) (DAYS)

PATTON ROAD 7 2 14

TOTALS 14

 STATION TO STATION
 LOCATION RD
 (650.8000)
 (650.9910)

 17+84 - 19+28
 PATTON RD
 144
 --

 21+32 - 22+18
 PATTON RD
 86
 --

 PROJECT
 -- 1

 TOTALS
 230
 1

SAWING ASPHALT

 STATION
 LOCATION
 (LF)

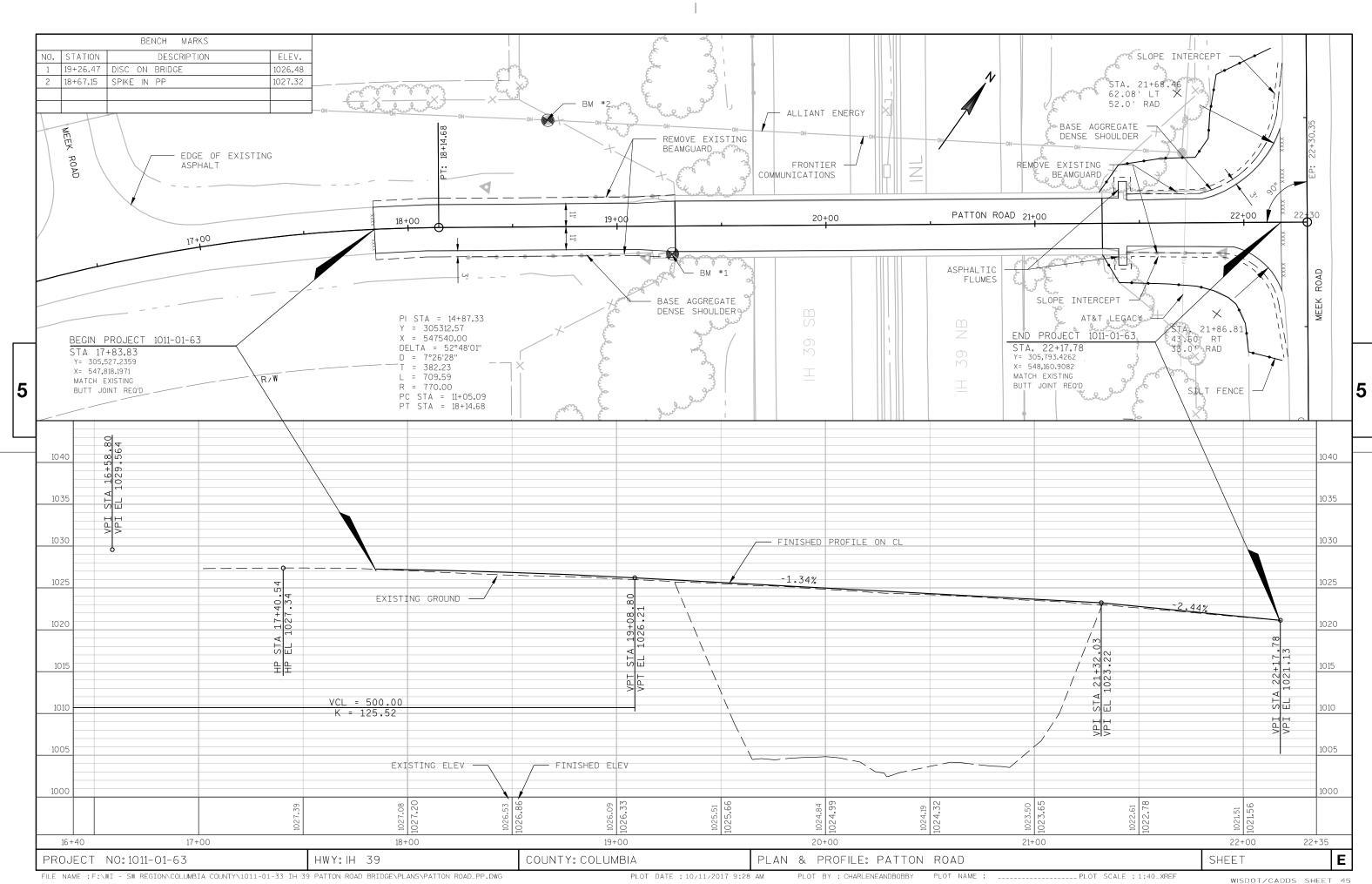
 17+84
 PATTON ROAD
 22

 22+18
 PATTON ROAD
 95

 TOTALS
 117

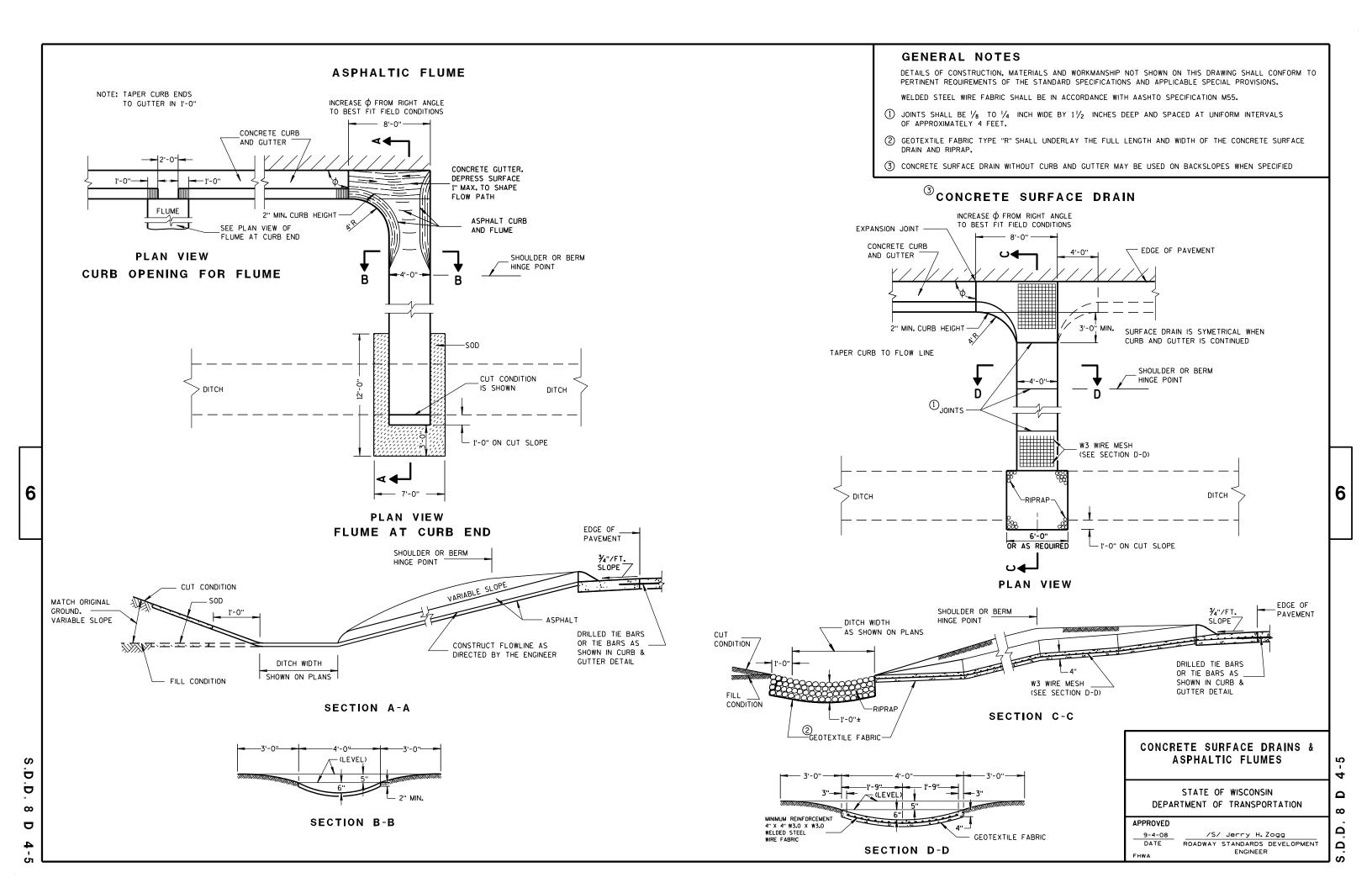
PROJECT NO: 1011-01-63	HWY: IH 39	COUNTY: COLUMBIA	MISCELLANEOUS QUANTITIES	SHEET:	E	l
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FILE NAME : _____ PLOT DATE : ____ PLOT BY : ____ PLOT NAME : ____ ORG DATE : ____ ORG DATE : ____ PLOT SCALE : 1:1



Standard Detail Drawing List

08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15006-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15D03-05	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D12-07A	TRAFFIC CONTROL, LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



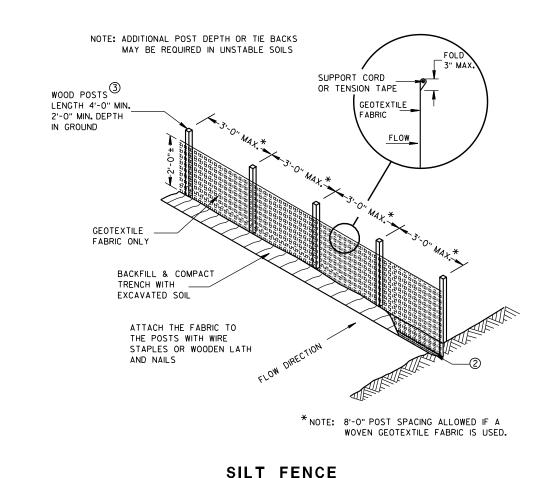
TYPICAL APPLICATION OF SILT FENCE

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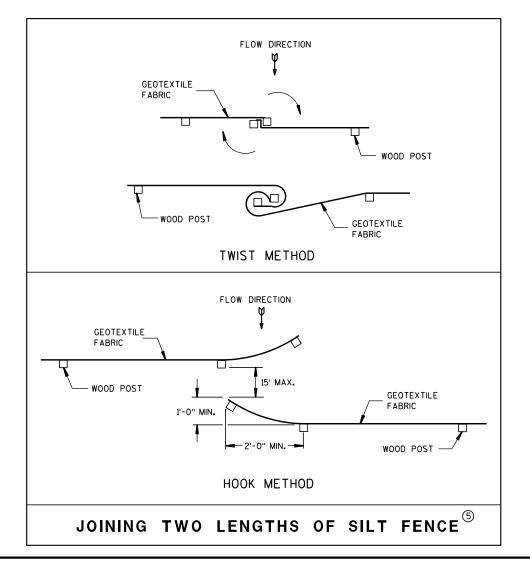
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-ROADWAY -ROADWAY SHOULDER SHOULDER — DITCH DIKE INSLOPE INSLOPE (1) --≪ >→ **₹ ₹ INSLOPE** INSLOPE SHOULDER SHOULDER ROADWAY - ROADWAY SITUATION 2 SITUATION 1

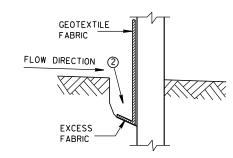
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



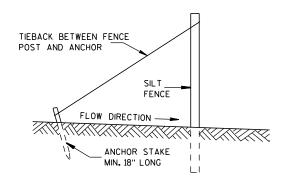
GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

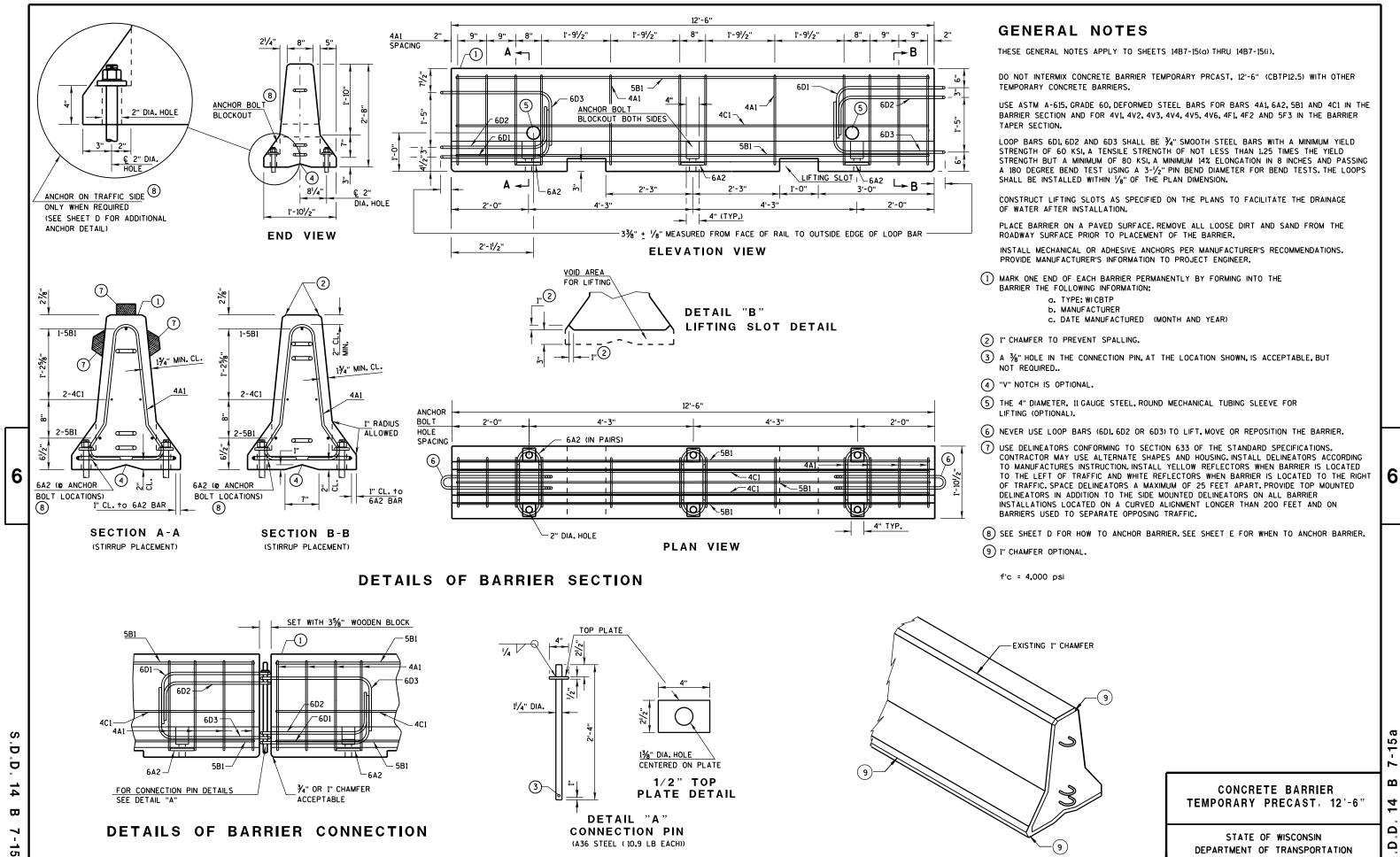
DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

STATE OF WISCONSIN

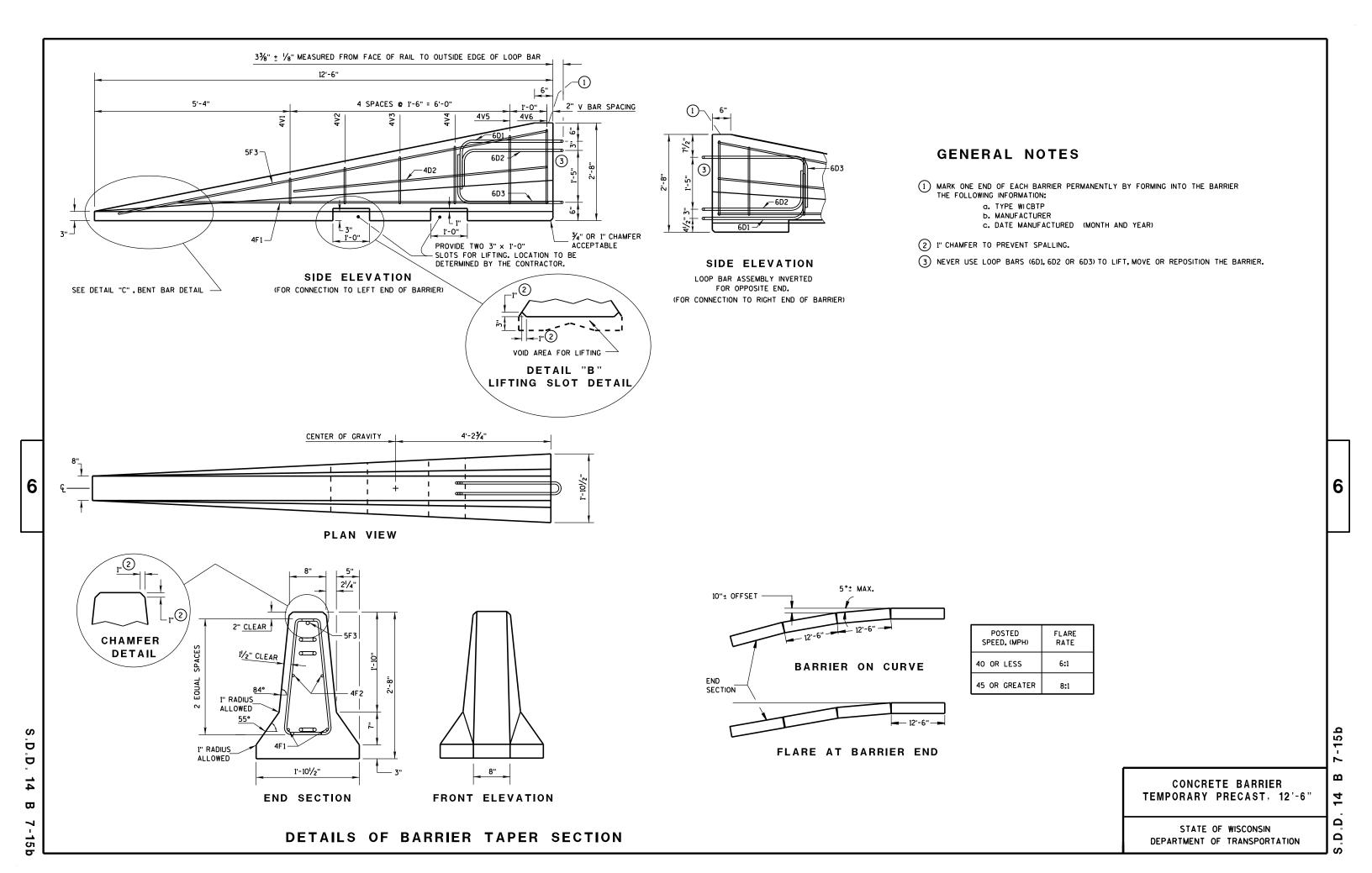
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DEPARTMENT OF TRANSPORTATION



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

BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

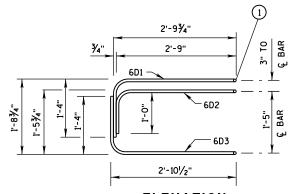
WENTE O BANNEN TALEN SECTION									
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.						
4V1	4	2	1'-11"						
4V2	4	2	2'-2"						
4V3	4	2	2'-6"						
4V4	4	2	2'-9"						
4V5	4	2	3'-2"						
4V6	4	2	3'-4"						
4F1	4	2	12'-0"						
4F2	4	2	7'-6"						
5F3	5	1	11'-9"						
L	OOP AS	SSEMBL	Υ						
6D1	6	1	8'-5"						
6D2	6	1	7'-7"						
6D3	6	1	8'-6"						
•									

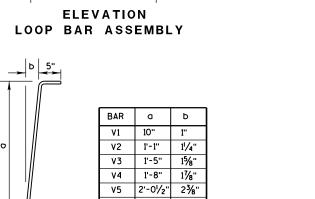
2" MIN. CLEAR

DETAIL "C"

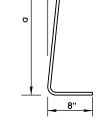
BENT BAR DETAIL

2" MIN. CLEAR





V6 2'-3" 2¾"



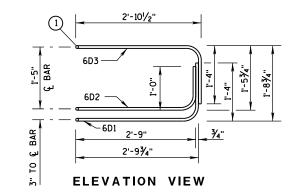
TAPER BARRIER SECTION

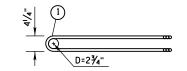
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

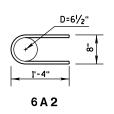
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.			
4A1	4	12	6'-0"			
6A2	6	6	2'-11"			
5B1	5	3	12'-2"			
4C1	4	2	12'-2"			
LOOP ASSEMBLY						
6D1	6	2	8'-5"			
6D2	6	2	7'-7"			
6D3	6	2	8'-6"			

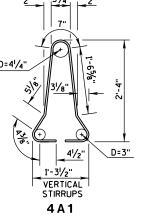




PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)





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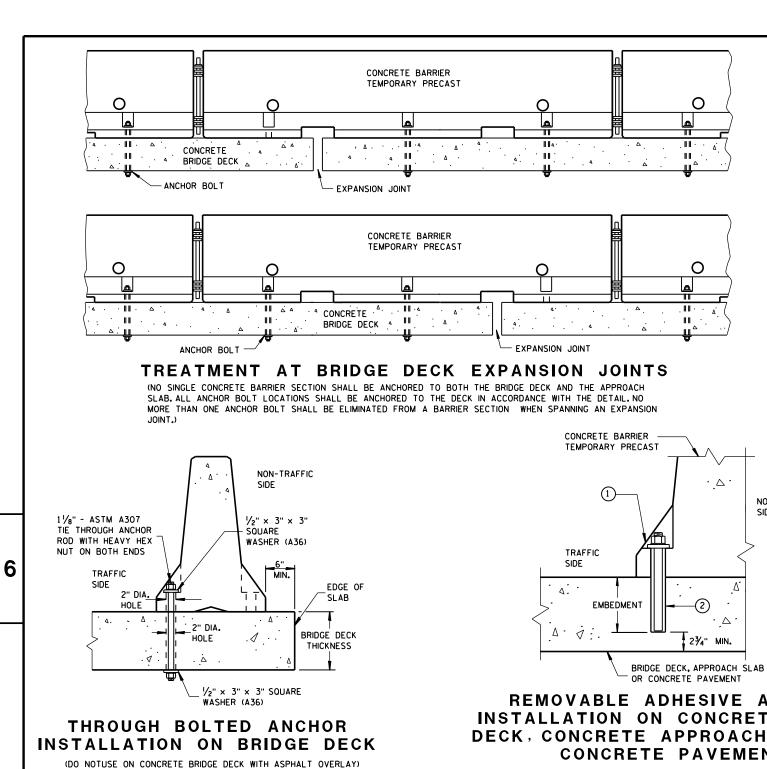
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BARRIER SECTION

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



TIED DOWN SYSTEM

ANCHOR RODS REQUIRED AT EACH ANCHOR LOCATION

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

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

CONCRETE BARRIER TEMPORARY PRECAST TRANSITION LENGTH FREE STANDING

DIRECTION OF TRAFFIC

- STAKES REQUIRED

NO STAKES REQUIRED

NON-TRAFFIC

PLAN VIEW

STAKE

REQUIRED

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

NO STAKE

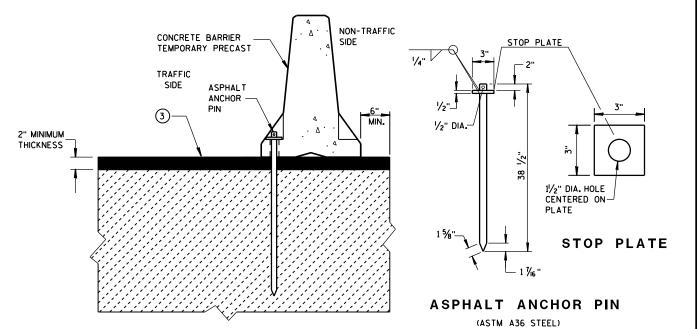
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

GENERAL NOTES

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

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

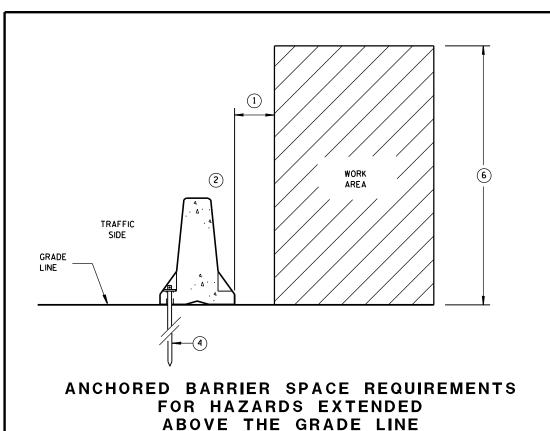
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE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

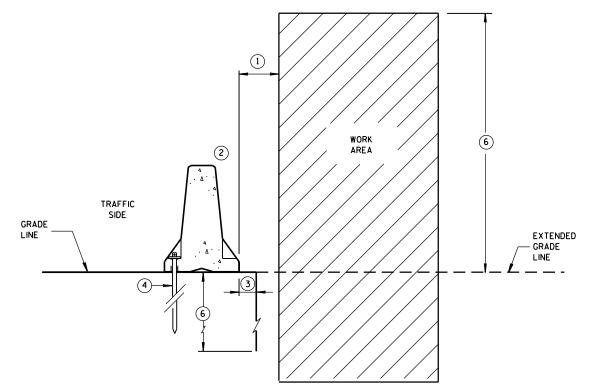


STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE**

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

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

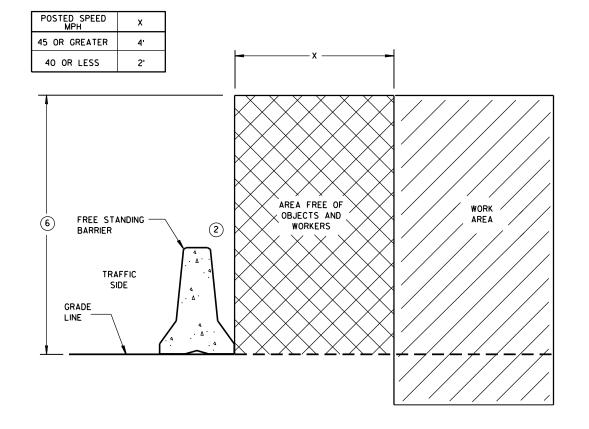


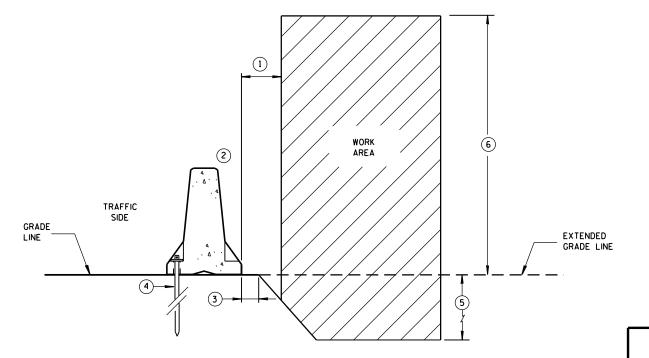


GENERAL NOTES

- 1 WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
- OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
- (3) SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
- 4 SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
- (5) DEPTH OF 3 FEET OR MORE.
- (6) Y = 6'-6".

ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS





FREE STANDING BARRIER SPACE REQUIREMENTS

ANCHORED BARRIER SPACE REQUIREMENTS
ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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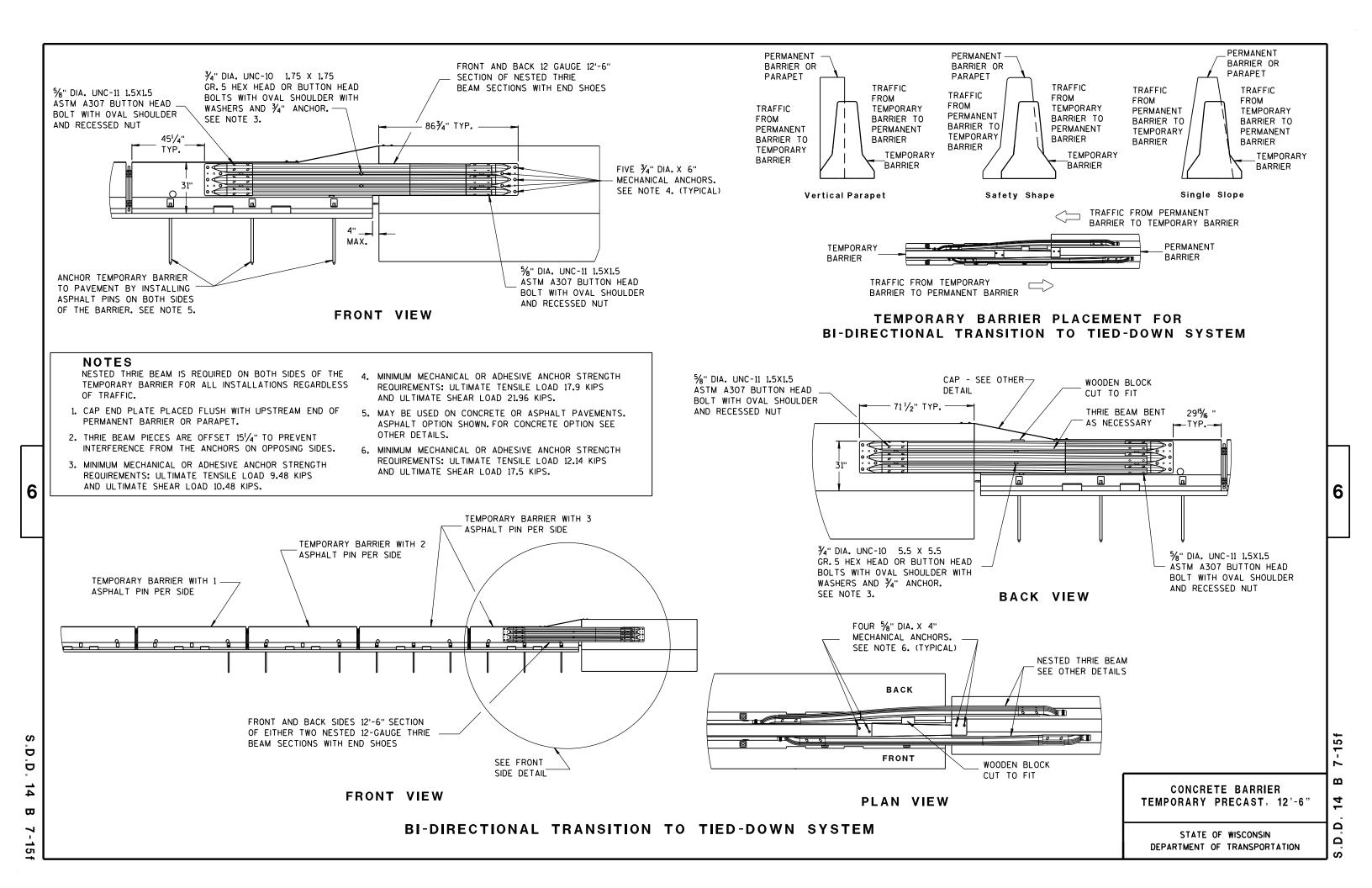
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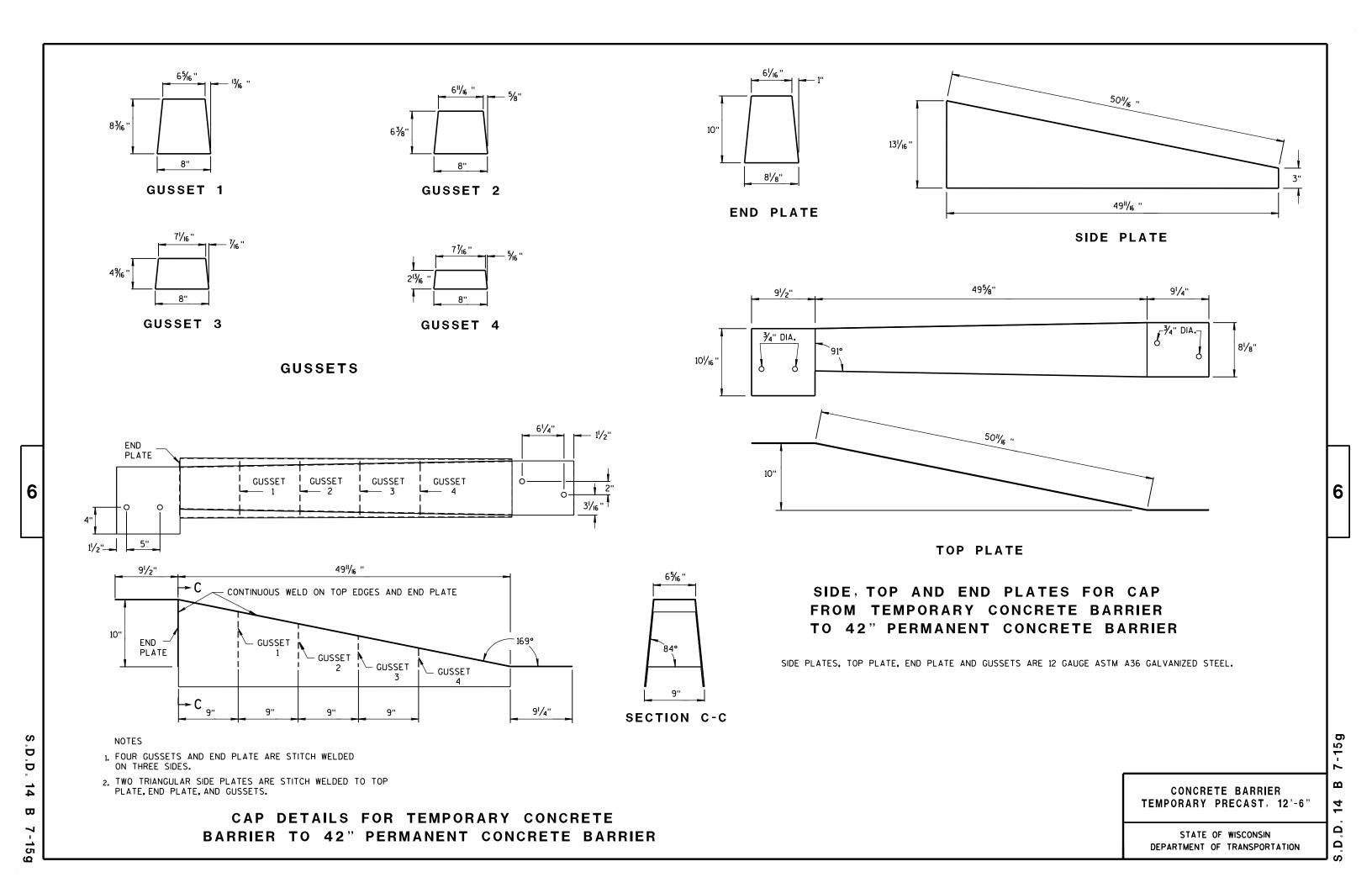
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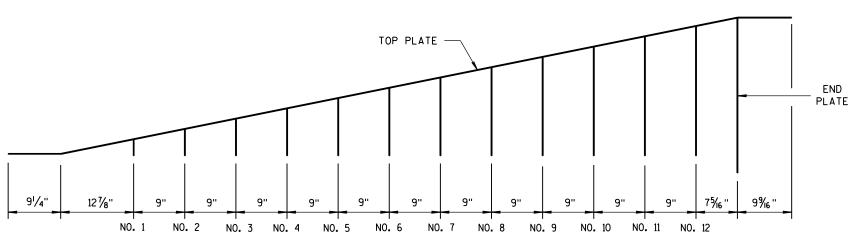
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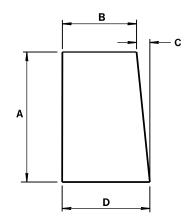
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GUSSET LOCATION



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS							
GUSSET No.	A	В	С	D			
1	21/8"	73/4"	1/4"	8			
2	4"/16 "	7% "	1/2"	8			
3	61/2"	73/8"	11/16 "	81/16"			
4	85/6"	73//6"	7∕8"	81/16 "			
5	101/8"	7''	1 ½ ₆ "	81/16"			
6	11 ¹⁵ / ₁₆ ''	6 ¹³ // ₆ "	1 1/4"	81/16"			
7	13¾"	65%"	1 1/6 "	81/16"			
8	15% "	6¾6"	1 % "	81/16"			
9	173/8"	6 ¹ /4"	1 ¹³ / ₁₆ ''	8½ ₆ "			
10	193/6"	6½ ₆ "	1 15/16 "	81/16"			
11	21"	5 1/8"	23/6"	81/16"			
12	22 ¹³ / ₁₆ "	5 ¹¹ / ₁₆ "	25/6"	8½ ₆ "			

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

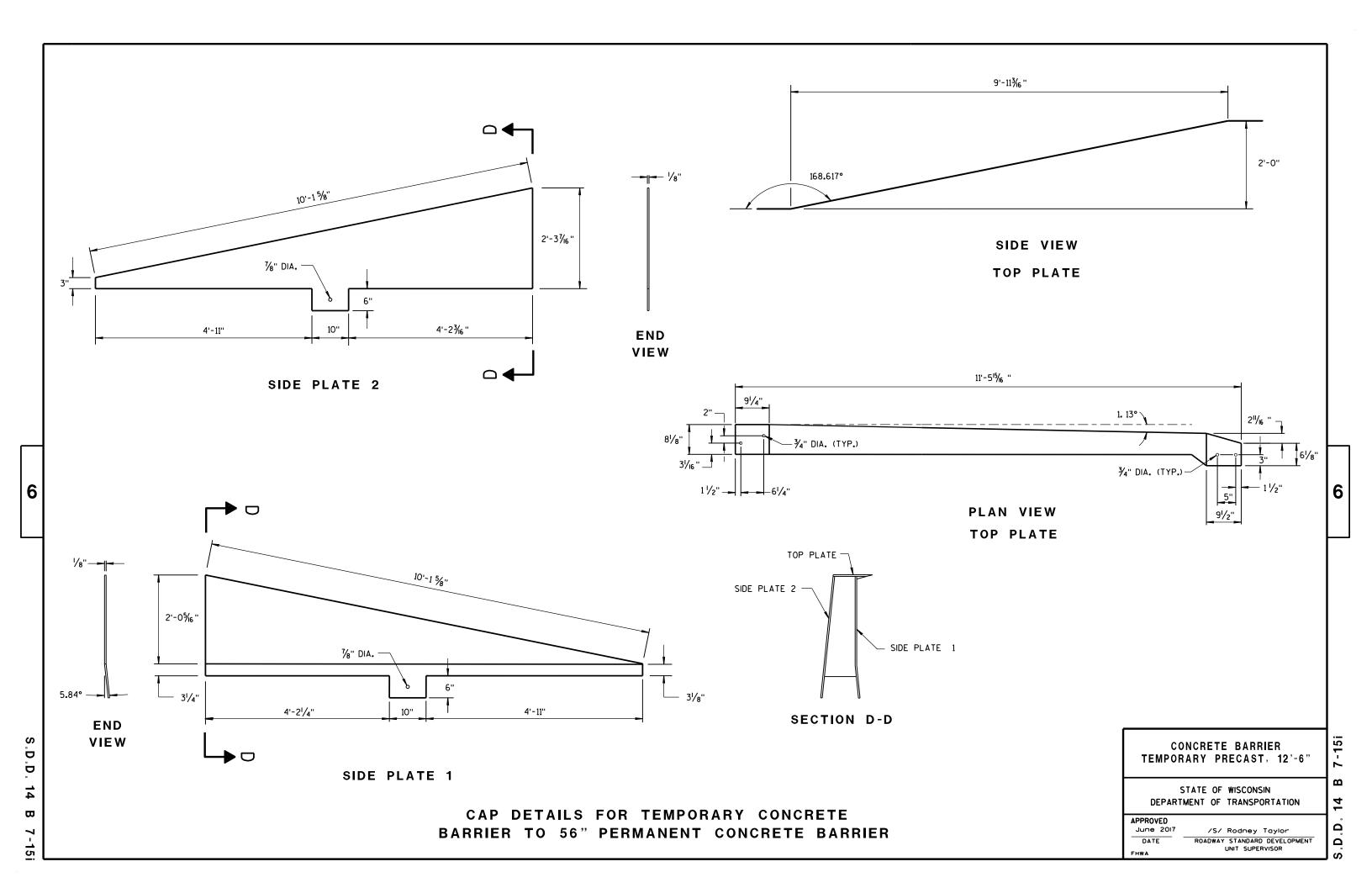
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES.
TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP
PLATE, END PLATE AND GUSSETS.

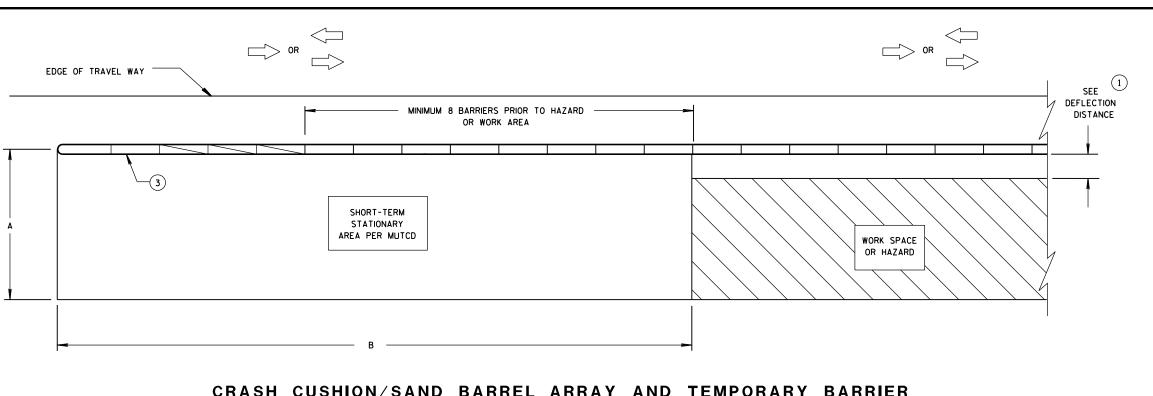
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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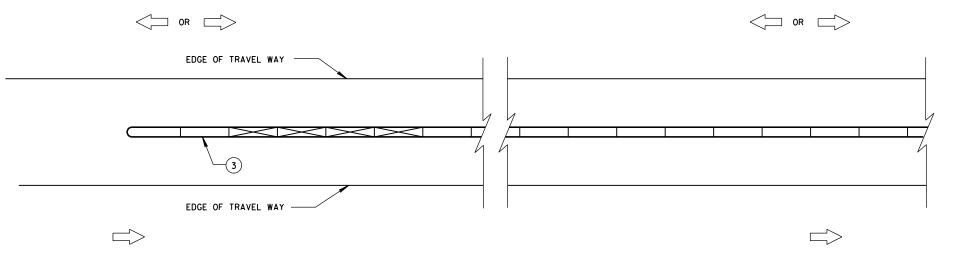
DIMENSION A TABLE (2)

	DIMENSION A		SION A
FACILITY	POSTED SPEED MPH	MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED	DIMENSION
SPEEDS	В
MPH	FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
65	645

CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

GENERAL NOTES

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SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

- (1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.
- (2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.
- (3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

LEGEND

DIRECTION OF TRAVEL

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER PERMANENT CONCRETE BARRIER

CRASH CUSHION OR SAND BARREL ARRAY

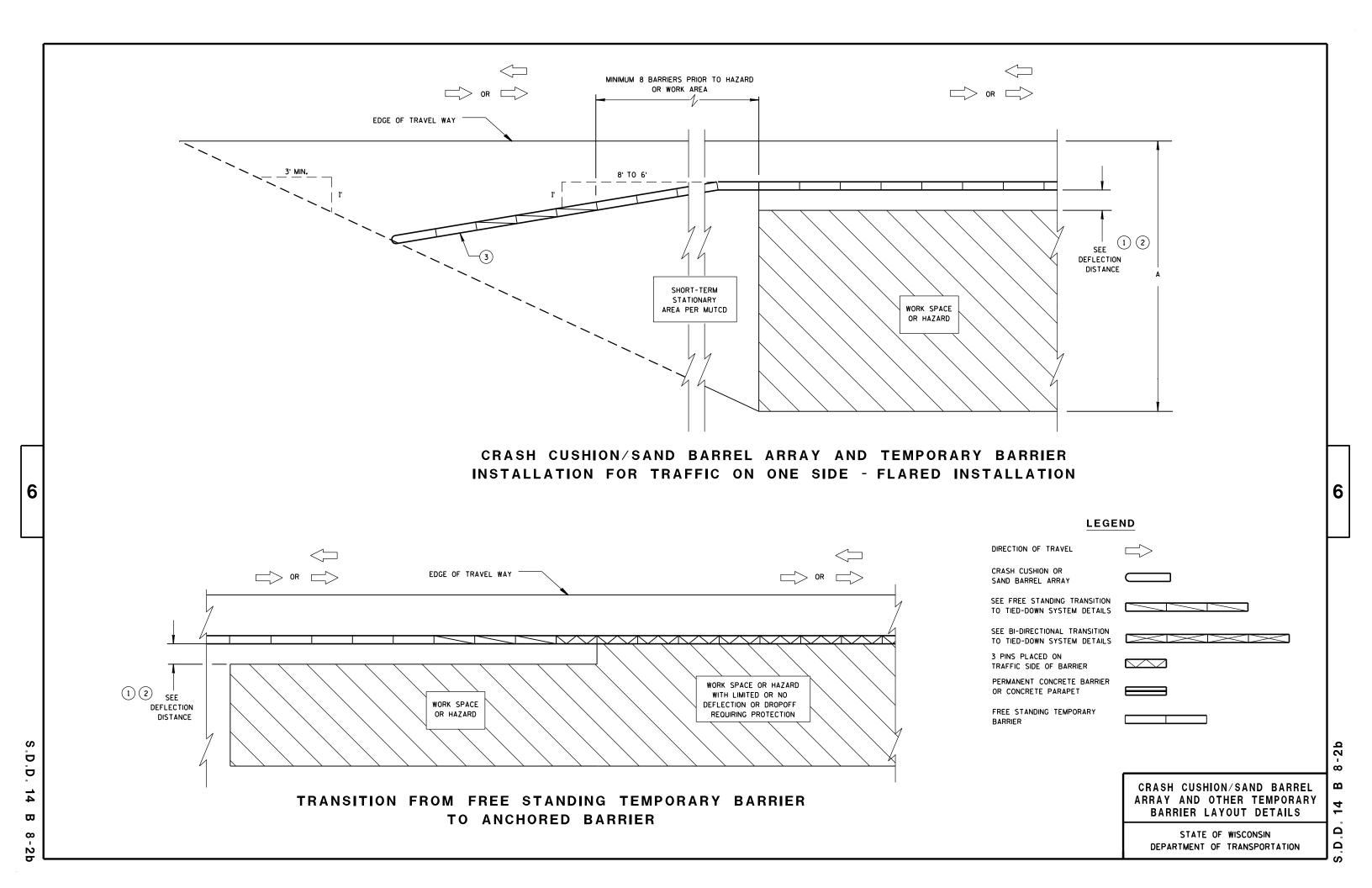
FREE STANDING TEMPORARY

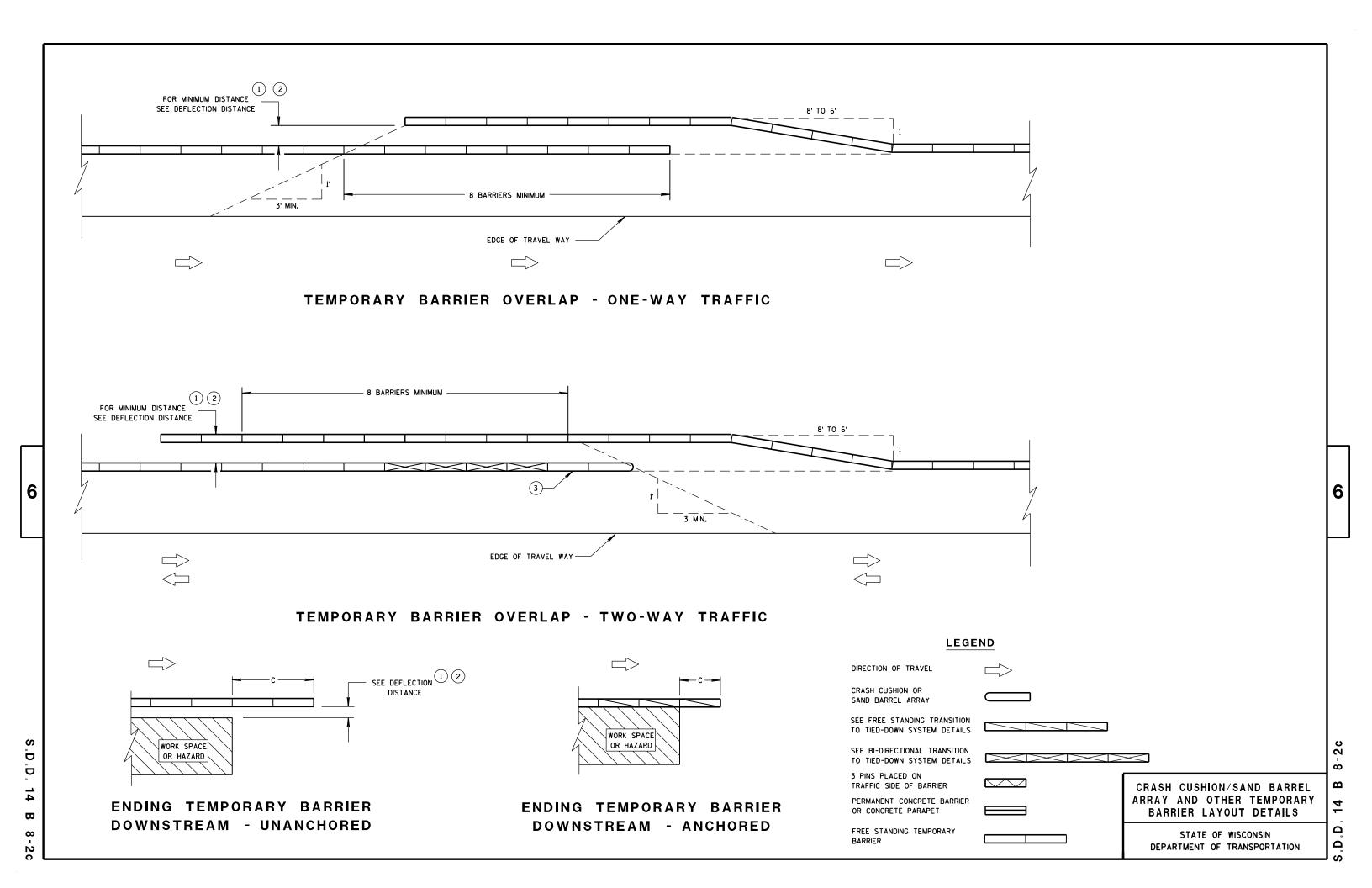
BARRIER

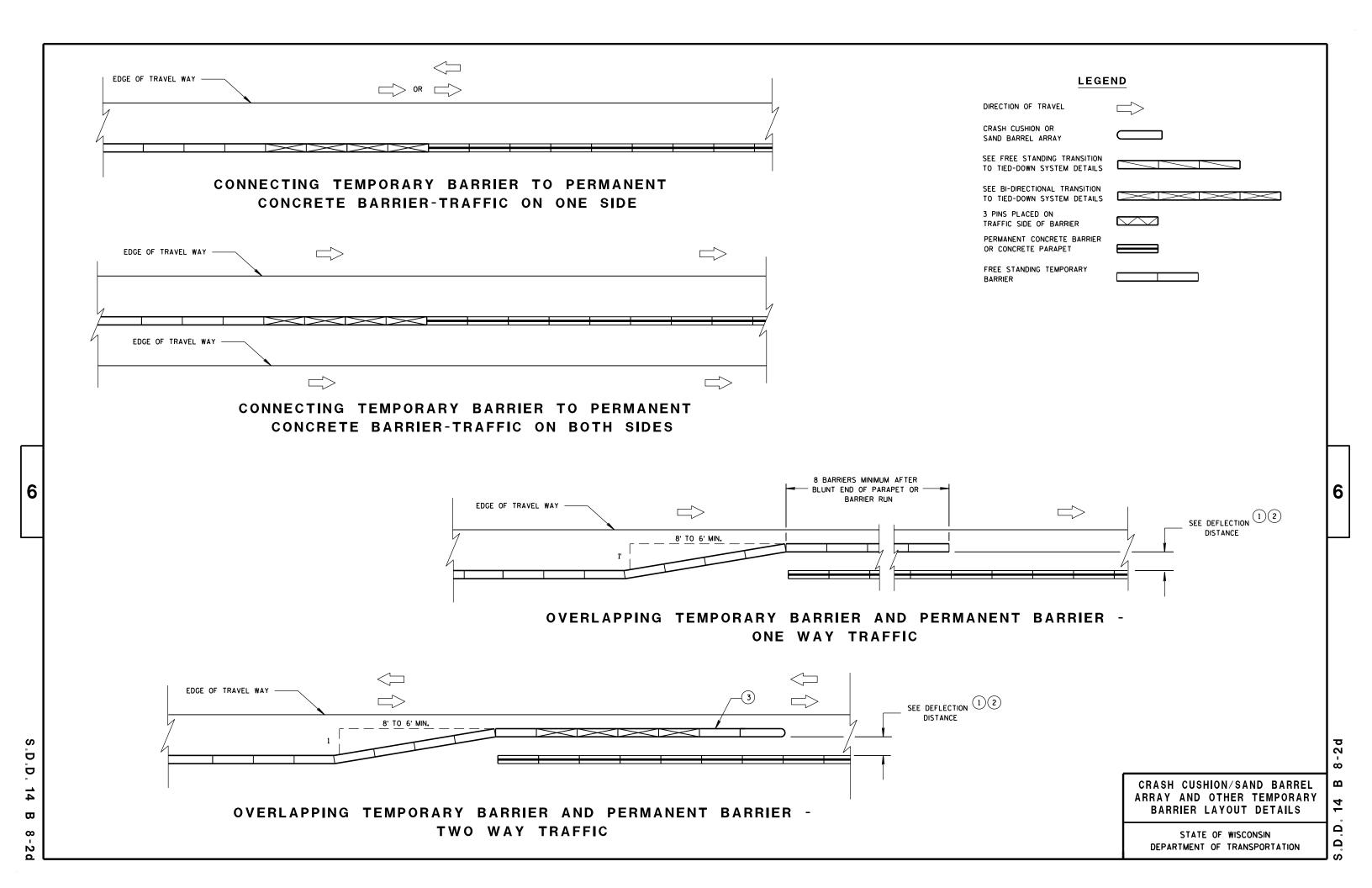
OR CONCRETE PARAPET

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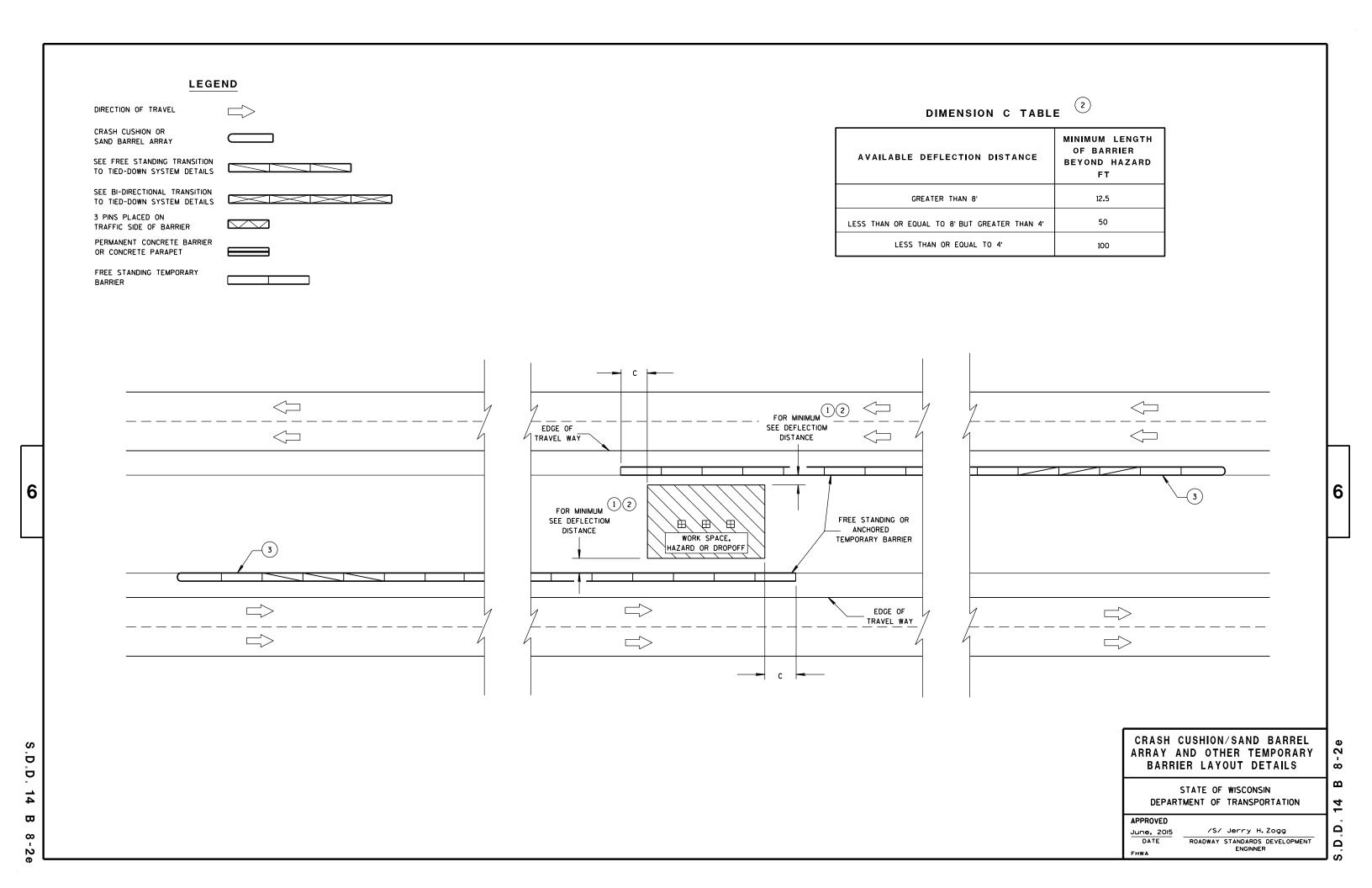
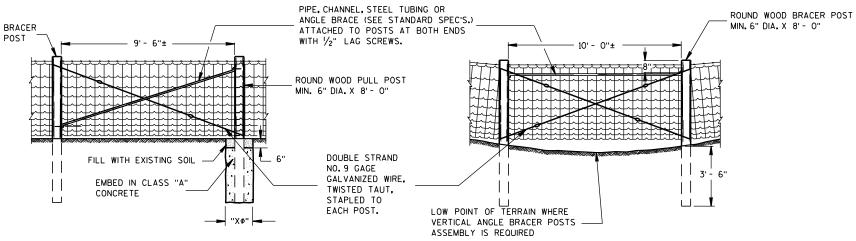
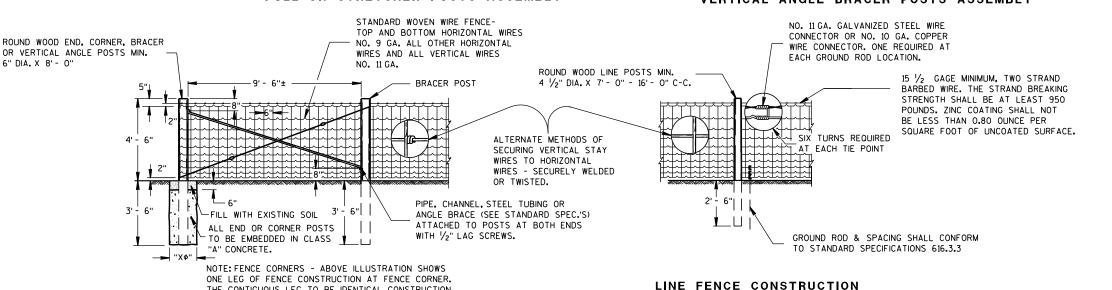


ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



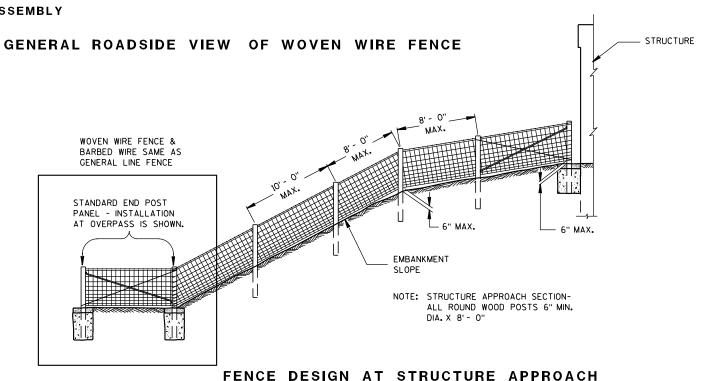
PULL OR STRETCHER POSTS ASSEMBLY

VERTICAL ANGLE BRACER POSTS ASSEMBLY



END OR CORNER POSTS ASSEMBLY

THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.



PANEL - INSTALLATION AT UNDERPASS IS SHOWN.

ALTERNATE FENCE DESIGN AT STRUCTURE

STANDARD END POST

GENERAL NOTES

"X ϕ " = DIAMETER OF THE POST PLUS 12".

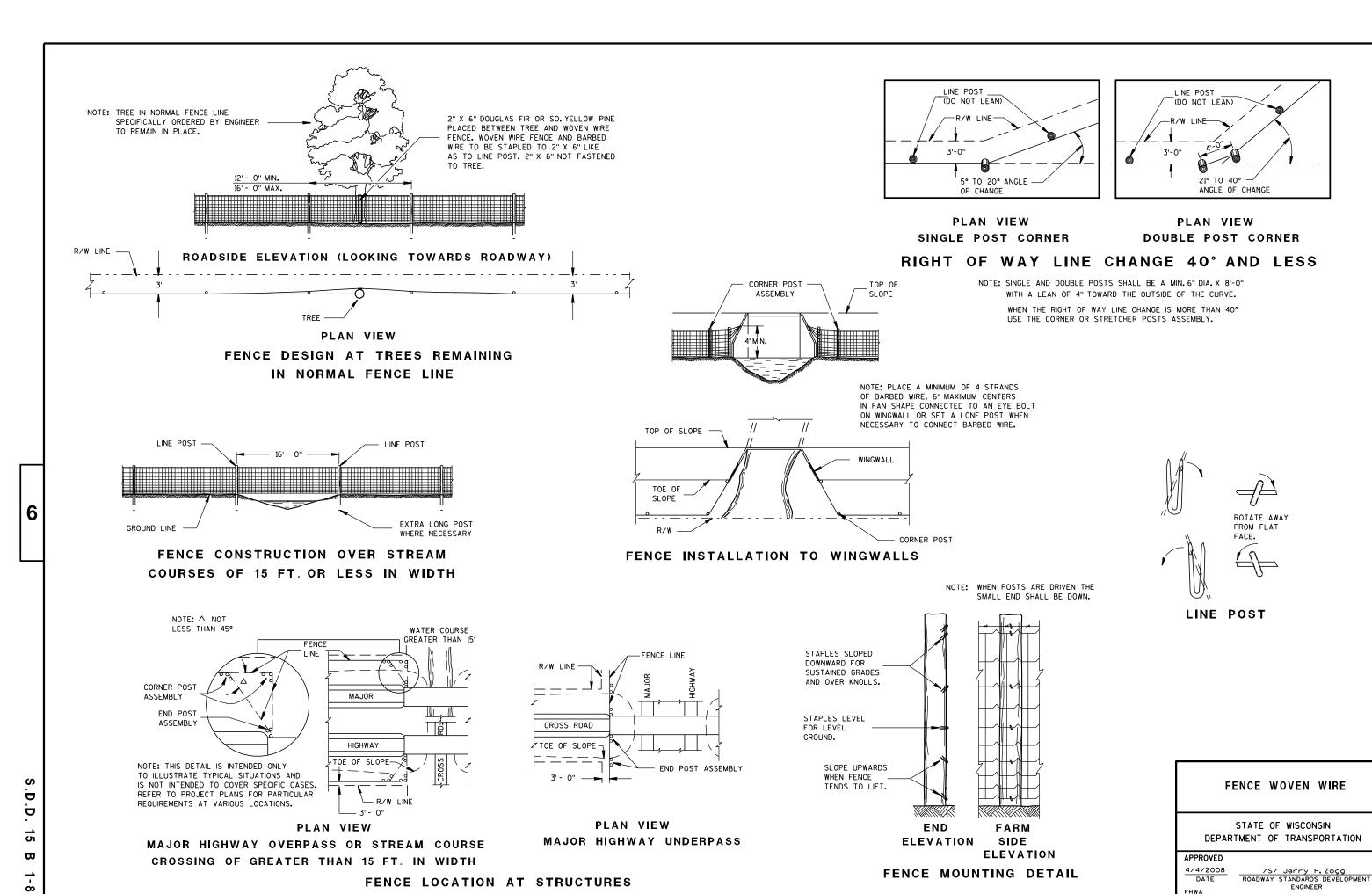
FENCE STAPLES SHOULD NEVER BE DRIVEN VER-TICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EX-PANSION AND CONTRACTION. STAPLE AR-RANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MAN-LIFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.

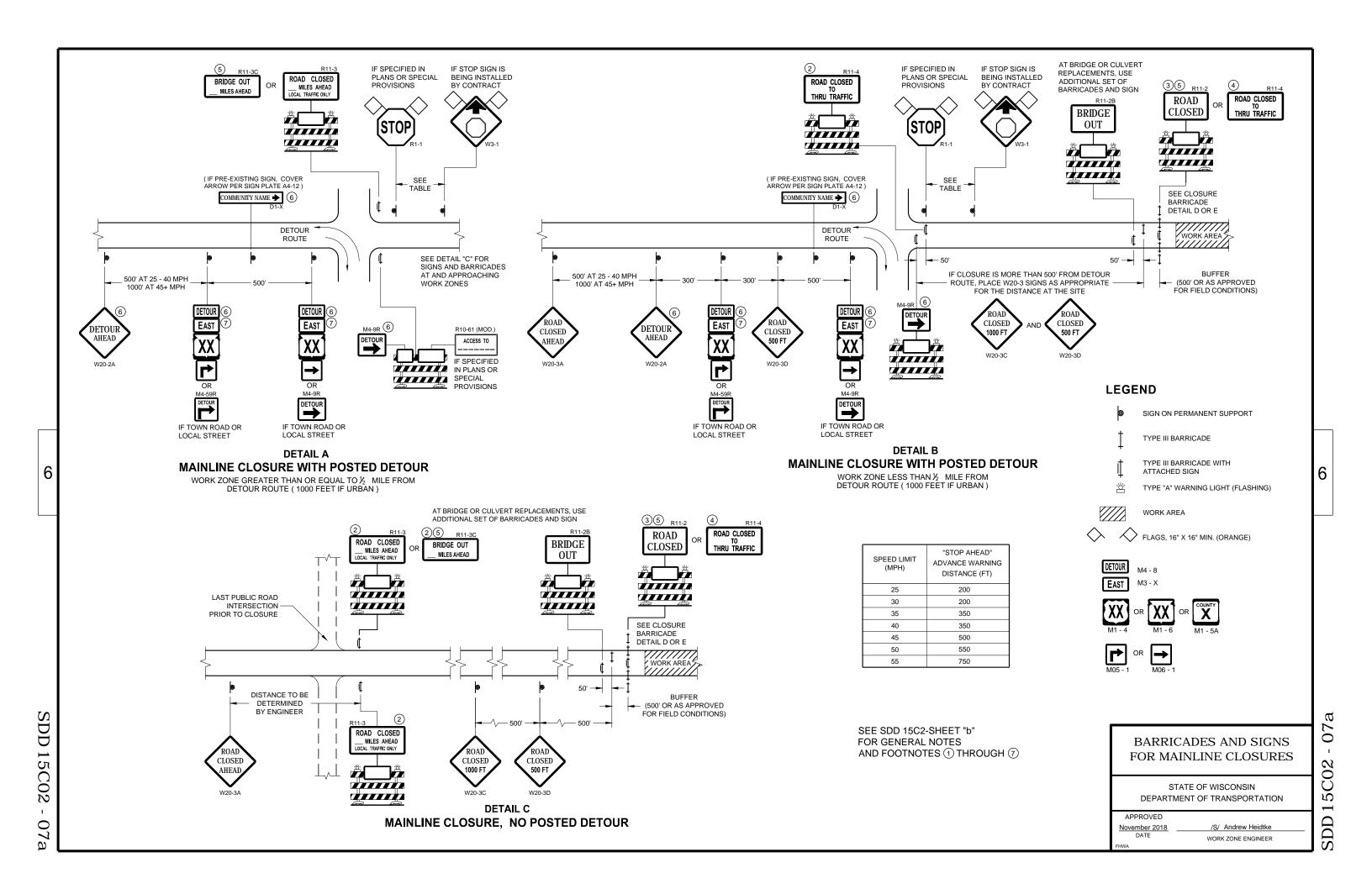
FENCE WOVEN WIRE

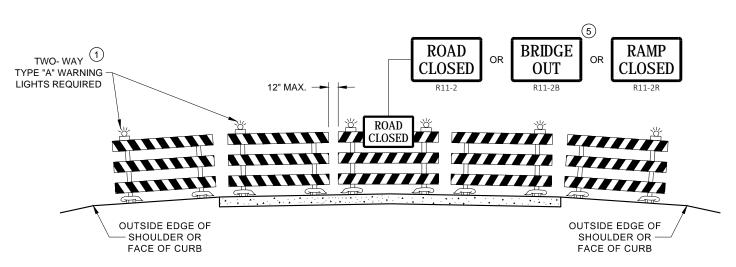
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



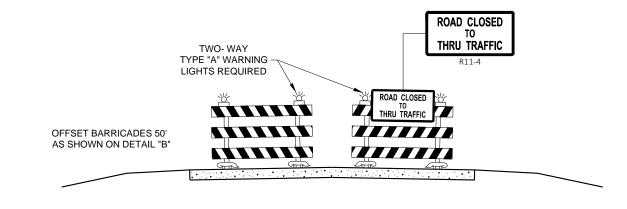
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DETAIL D ROAD CLOSURE BARRICADE DETAIL **APPROACH VIEW**



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

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

THE R11 - 2. R11 - 3. M4 - 9. R11 - 4. AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

0

02

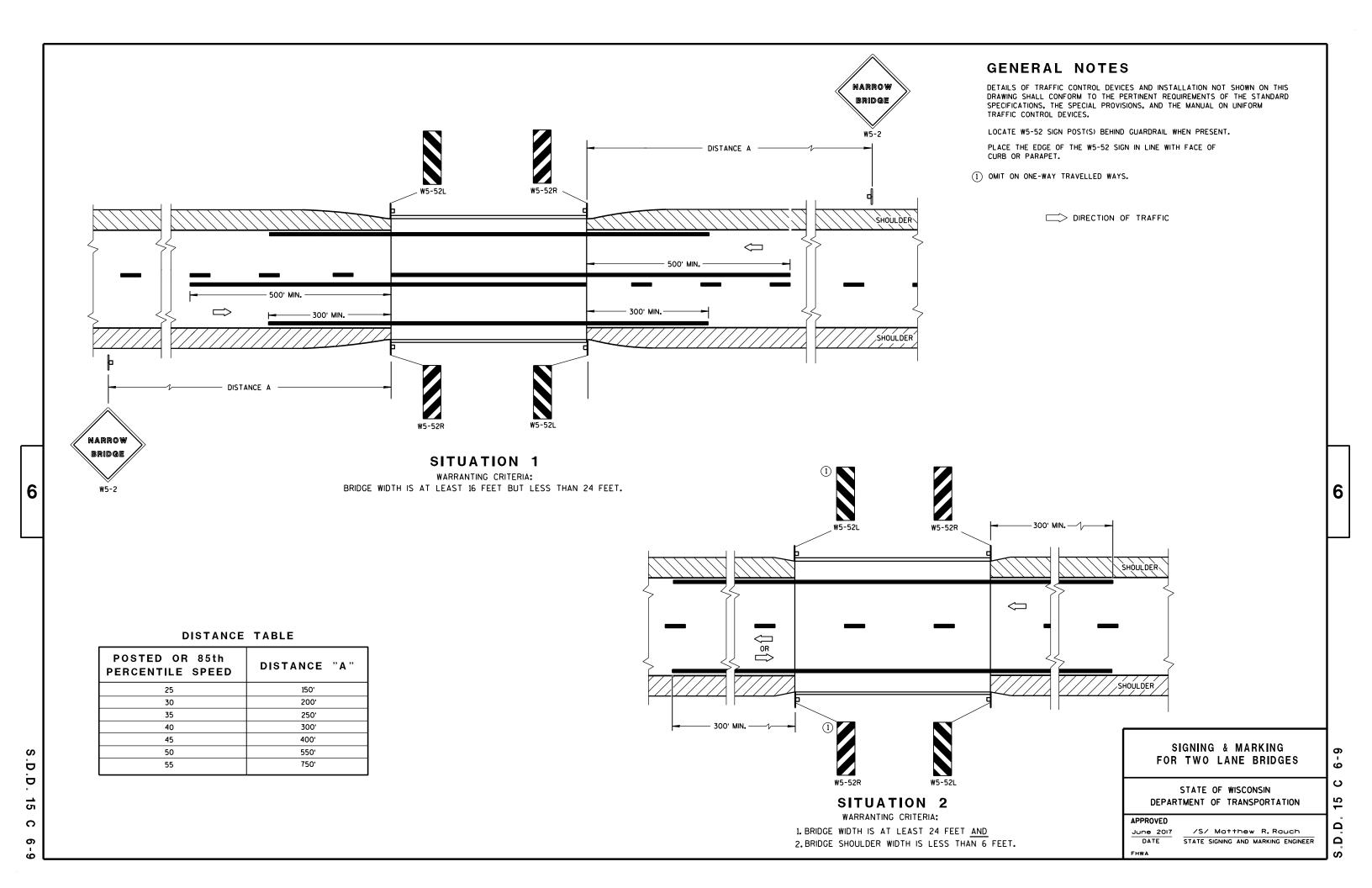
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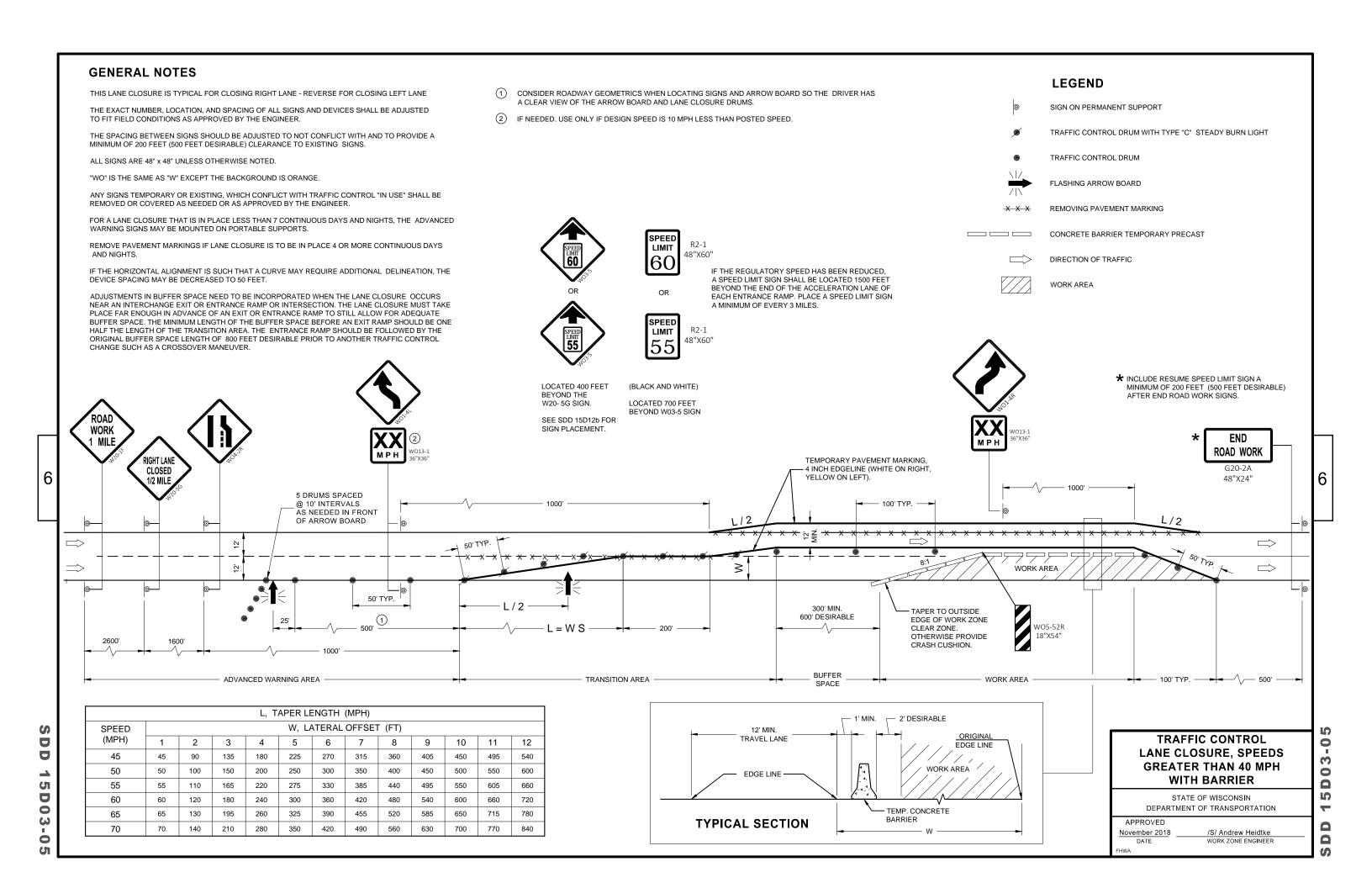
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

November 2018 DATE

WORK ZONE ENGINEER





GENERAL NOTES

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

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

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

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.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

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

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE 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 ONE HALF THE LENGTH OF THE TRANSITION AREA. 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 CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TRAFFIC CONTROL DRUM

TYPE "A" WARNING LIGHT (FLASHING)

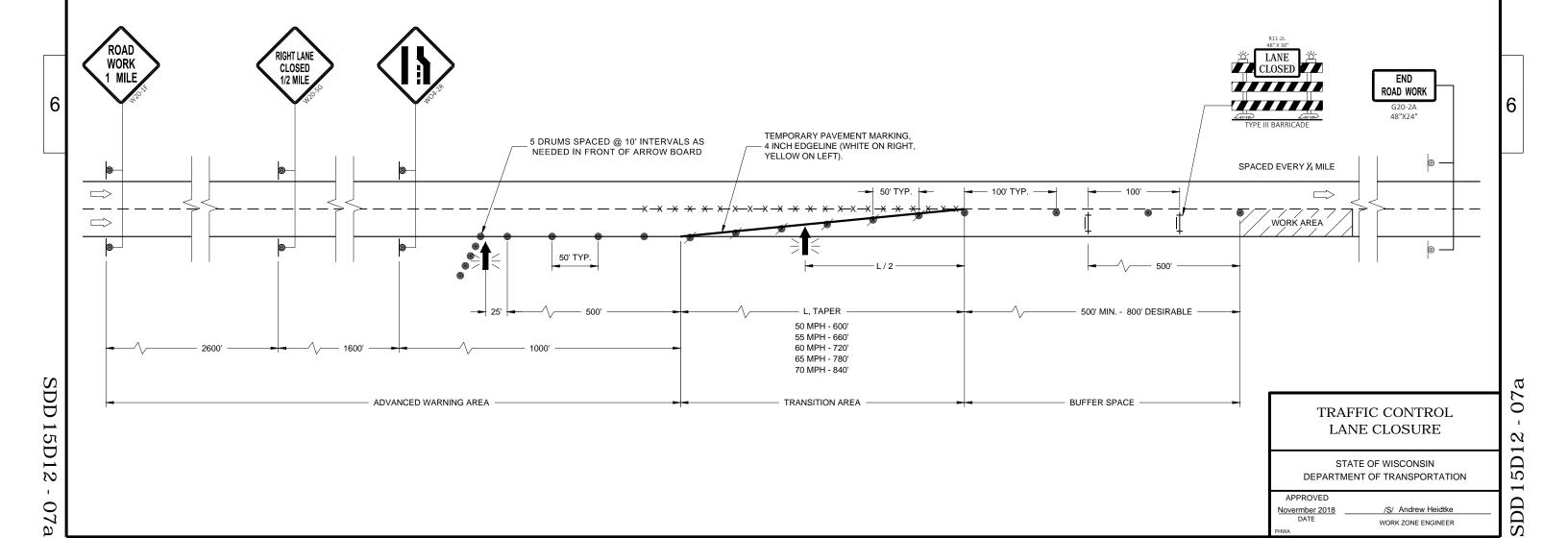
-X-X-X- REMOVING PAVEMENT MARKING

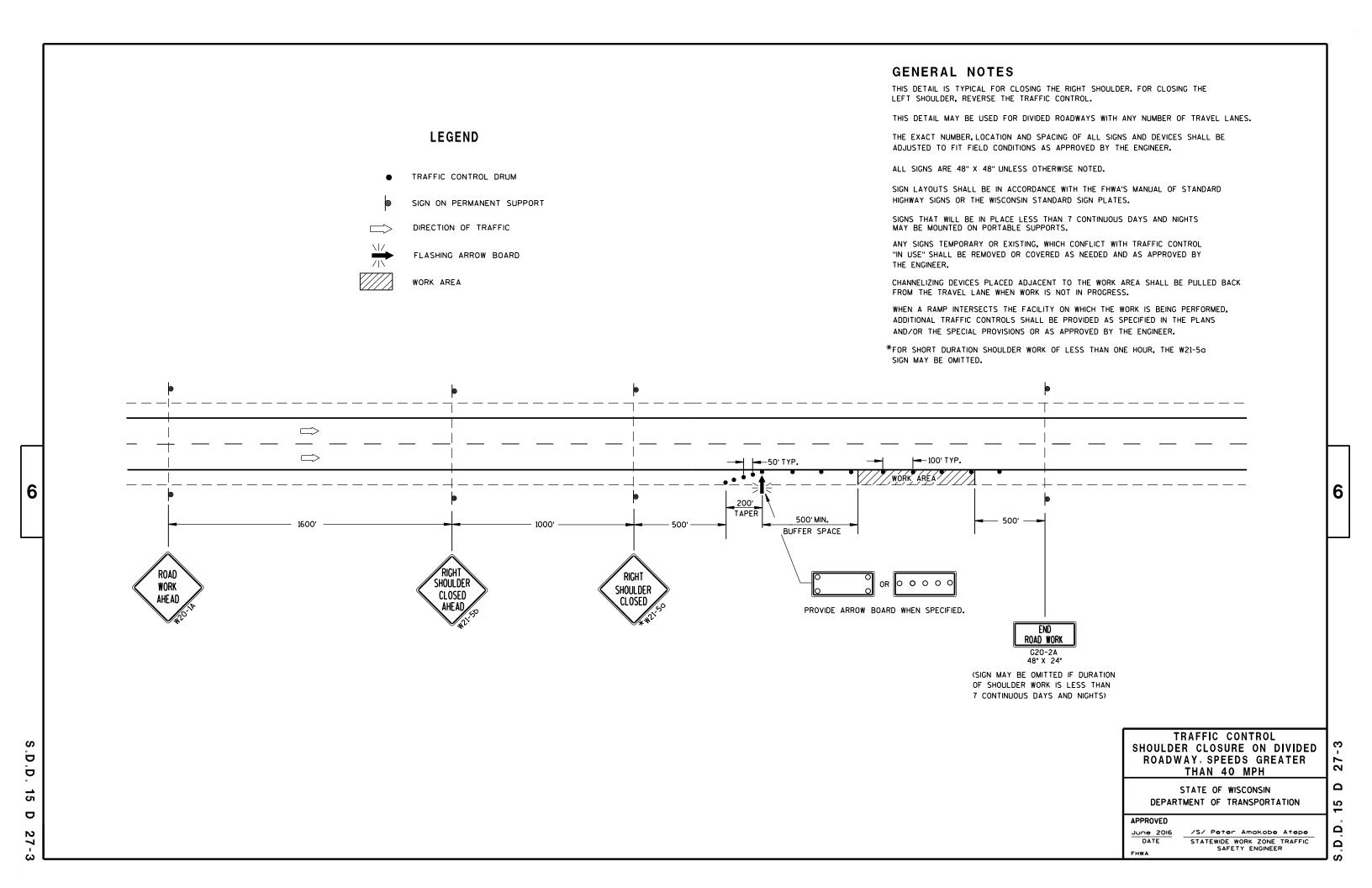
DIRECTION OF TRAFFIC

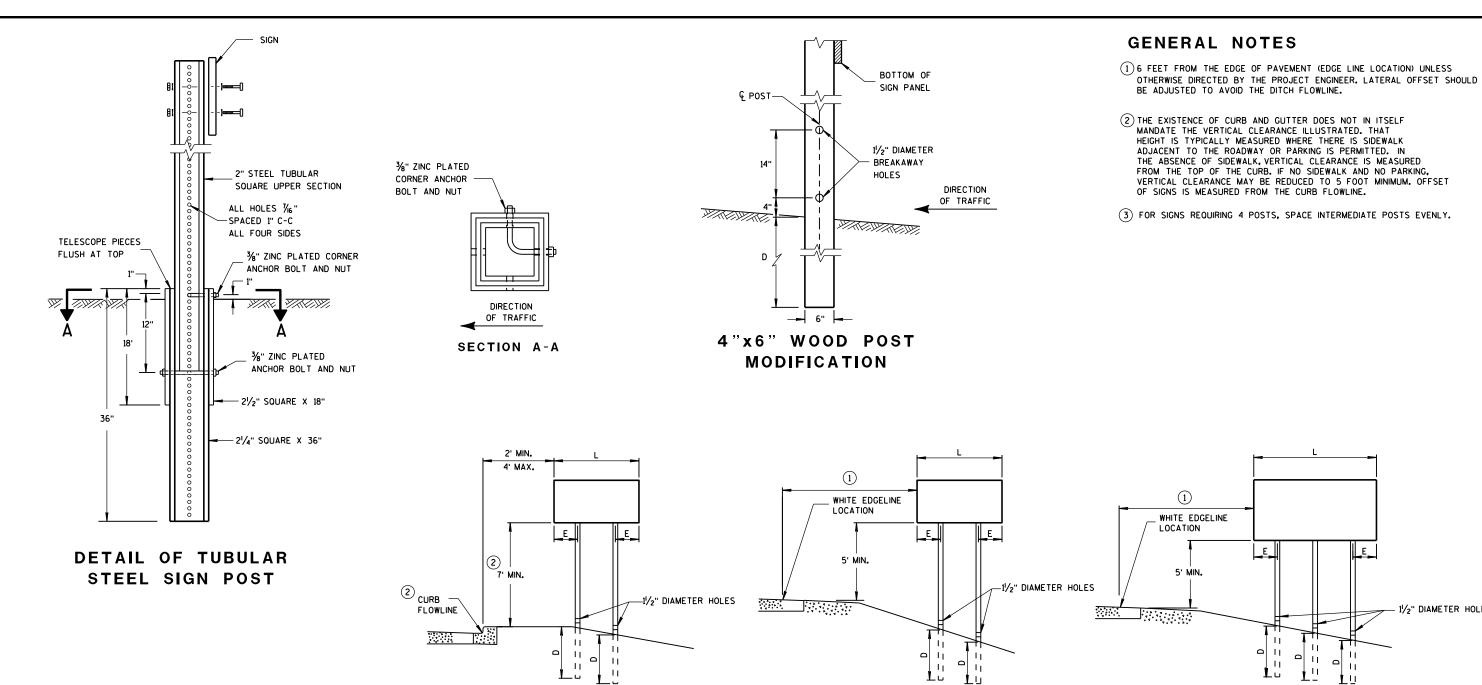
WORK AREA

......

FLASHING ARROW BOARD







TUBULAR STEEL POSTS

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

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

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

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

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D D 15 D ∞

6

Δ

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6

- 11/2" DIAMETER HOLES

Ω Ω

D

15

D

38-2b

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D. OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

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

LAG SCREWS - 3/8" X 3"

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - $\frac{9}{32}$ " (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 SO. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

S.D.D. 15

2 b

18

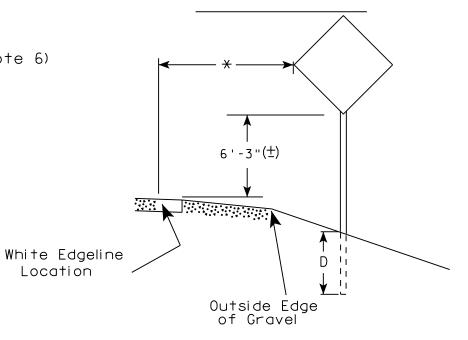
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6

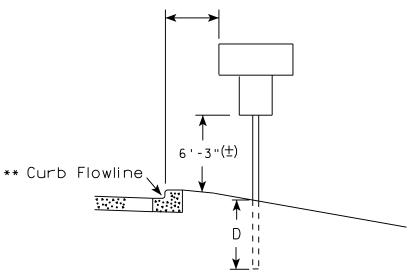
URBAN AREA

2' Min - 4' Max (See Note 6) 7'-3"(±) ** Curb Flowline.

RURAL AREA (See Note 2)



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



5'-3"(生) White Edgeline Dι Location Outside Edge of Gravel ** The existence of curb and gutter does not in

Location

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.

* 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" (±) or 6'-3" (±) 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 (+) 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" (\pm) . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (\pm).

POST EMBEDMENT DEPTH

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

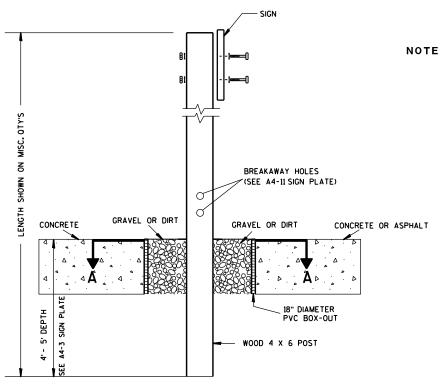
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Raud For State Traffic Engineer

DATE 8/21/17 PLATE NO. <u>A4-3.21</u>

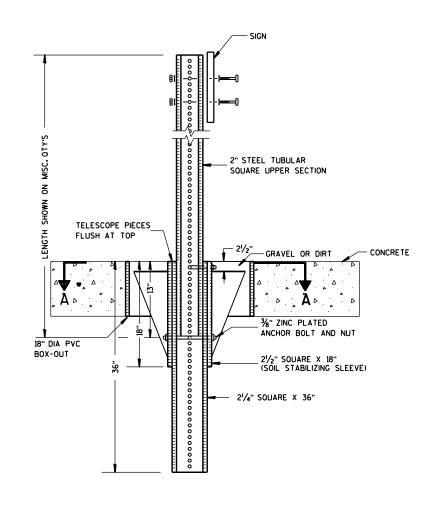
SHEET NO: PROJECT NO: HWY: COUNTY:



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.



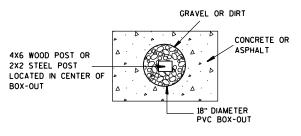
ELEVATION VIEW

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

ELEVATION VIEW

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

- 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.
- $\star\star\star$ 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'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

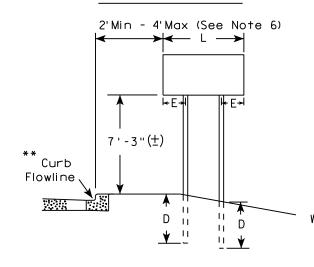
For State Traffic Engineer

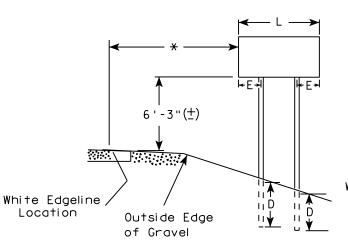
DATE 8/21/17 PLATE NO. A4-4.15

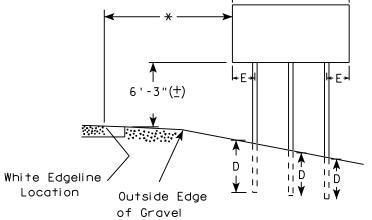
SHEET NO:

URBAN AREA

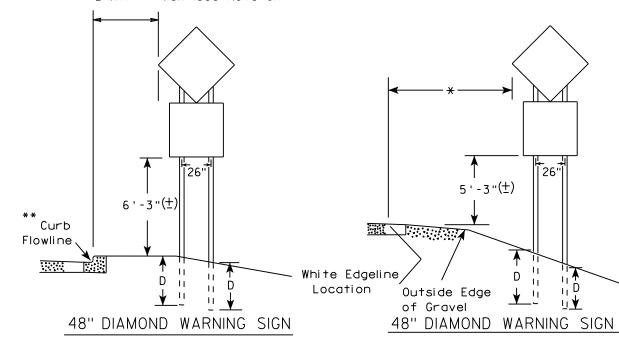
RURAL AREA (See Note 3)







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



	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED	
	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:

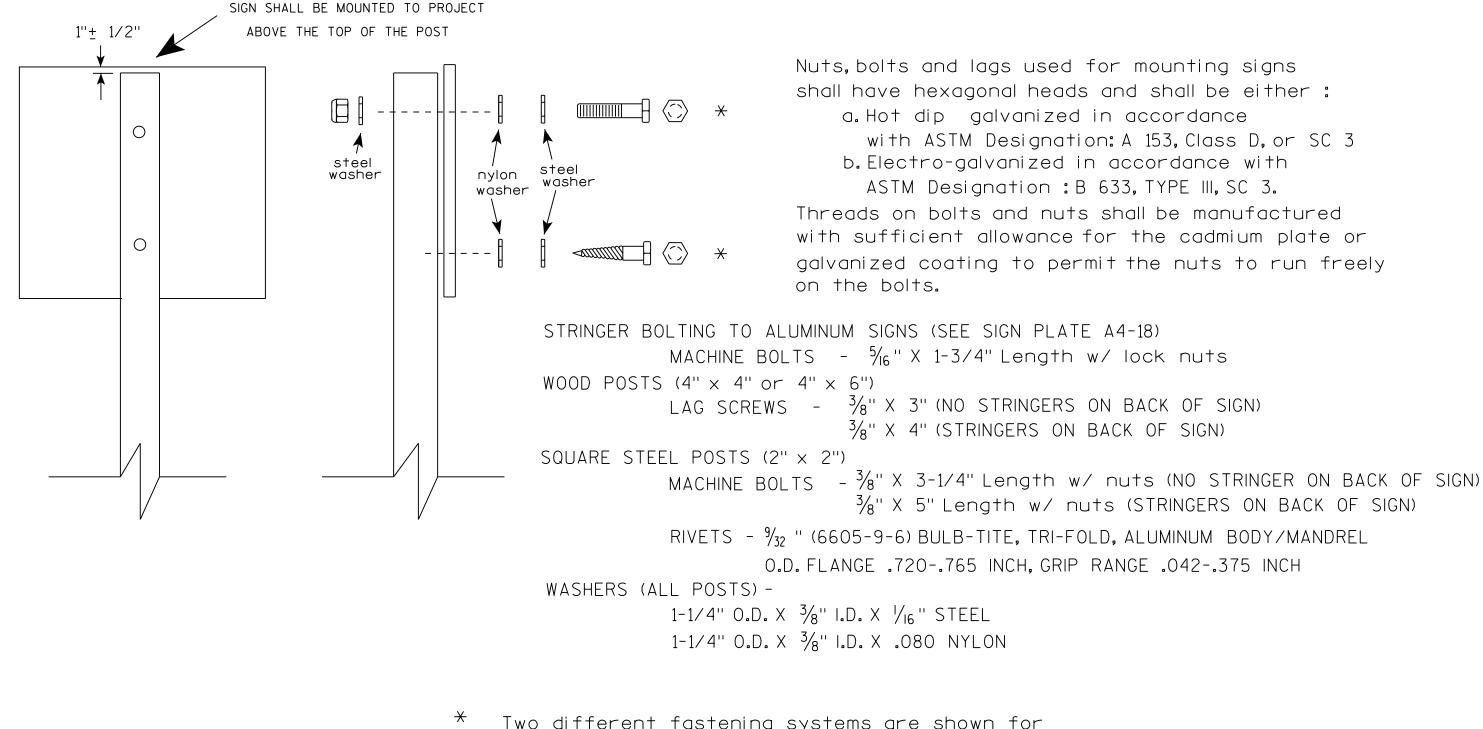
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PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000



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

Matther R Raw
For State Traffic Engineer

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

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

PROJECT NO:

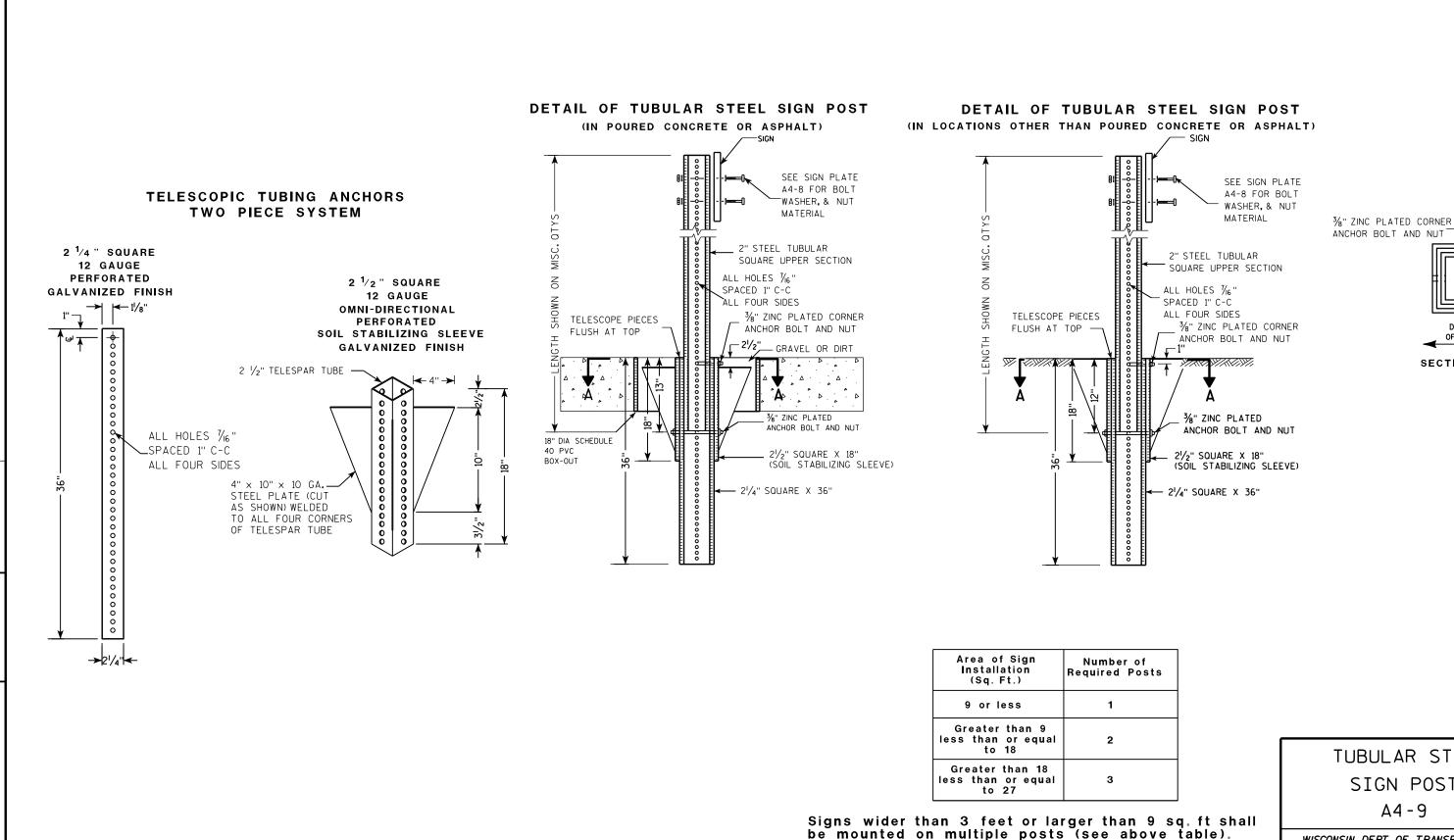
FILE NAME : C:\CAFfiles\Projects\tr strolgte\A48 DCN

PLOT DATE . 11-416-2016 11:35

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

SHEET NO:

LI NO:



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

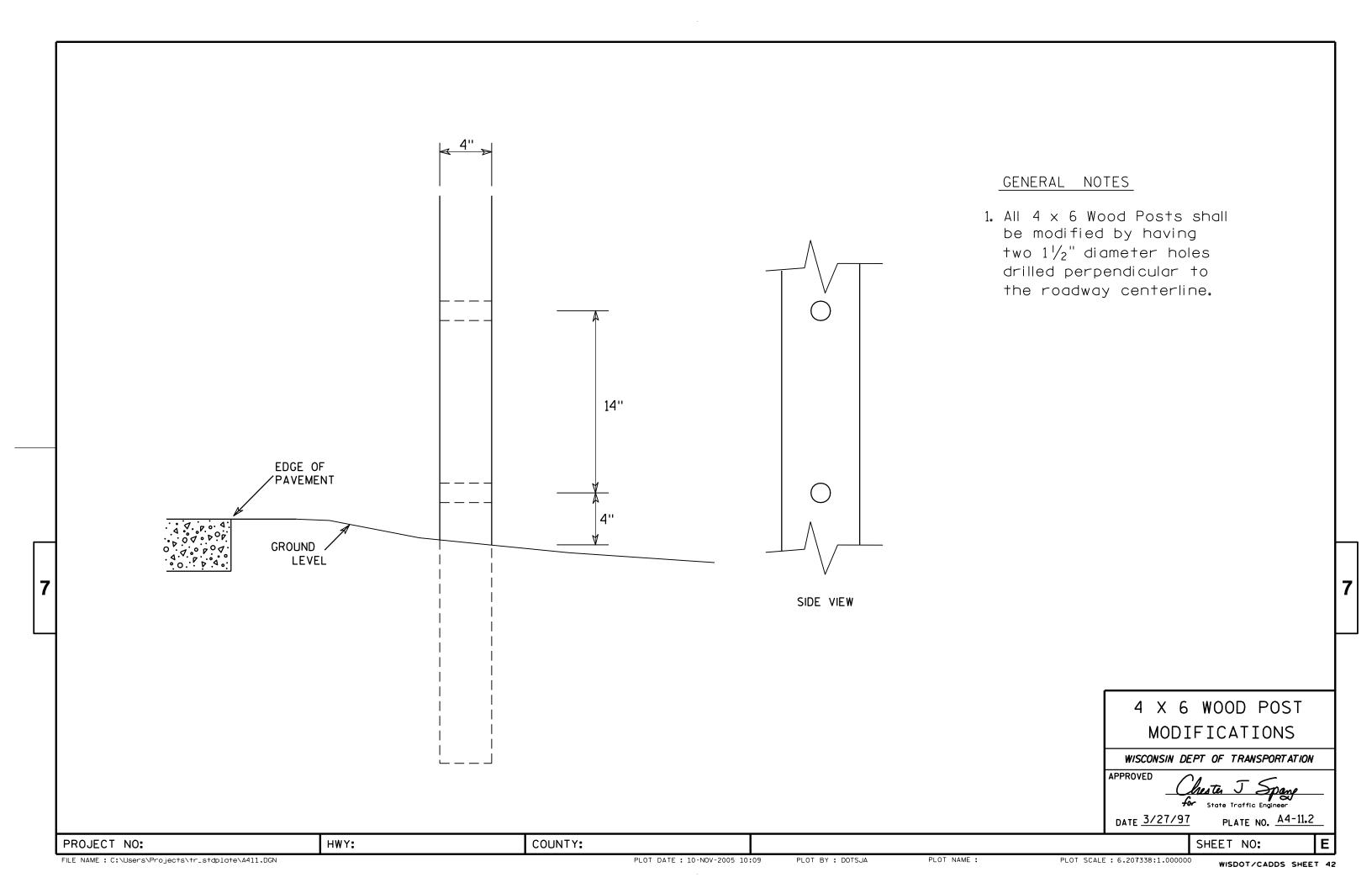
COUNTY:

PLOT NAME :

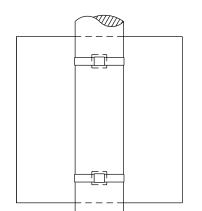
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

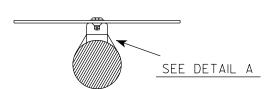
SECTION A-A

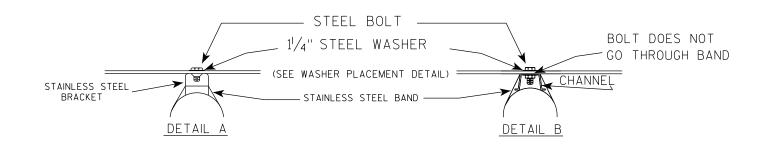


BANDING

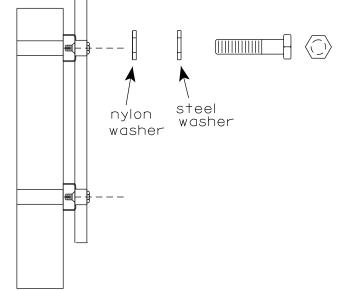


SINGLE SIGN





WASHER PLACEMENT



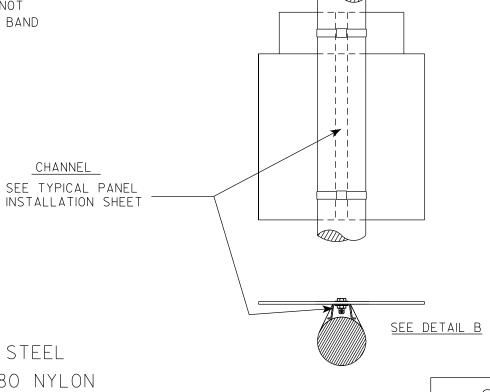
WASHERS (ALL POSTS) -

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

GENERAL NOTES

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

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

State Traffic Engineer DATE 6/10/19

PLATE NO. A5-9.4

Ε

HWY:

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

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

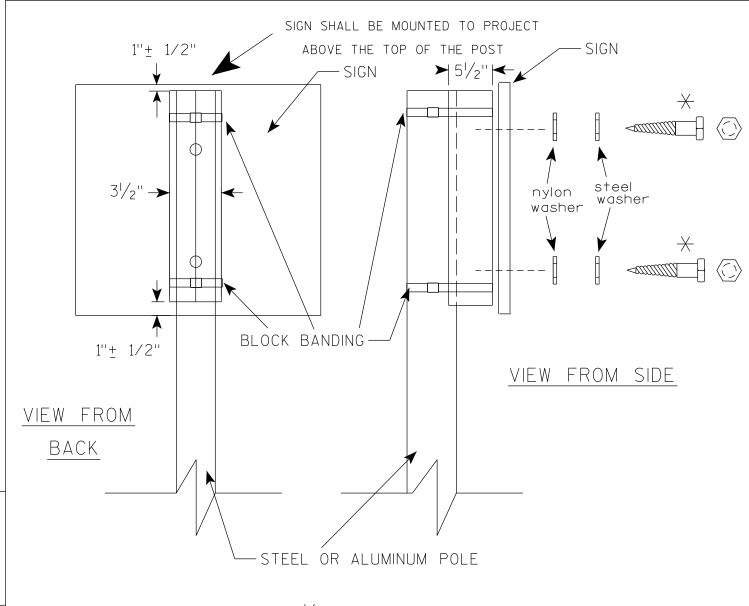
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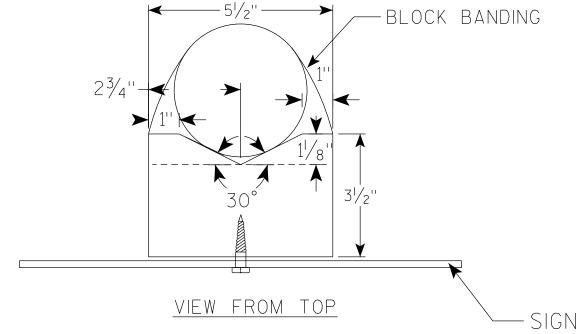
PROJECT NO:

PLOT BY: mscj9h

CHANNEL

SEE TYPICAL PANEL





GENERAL NOTES

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

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

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

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

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

PROJECT NO:

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

PLOT DATE: 10-JUN 2019 4:15

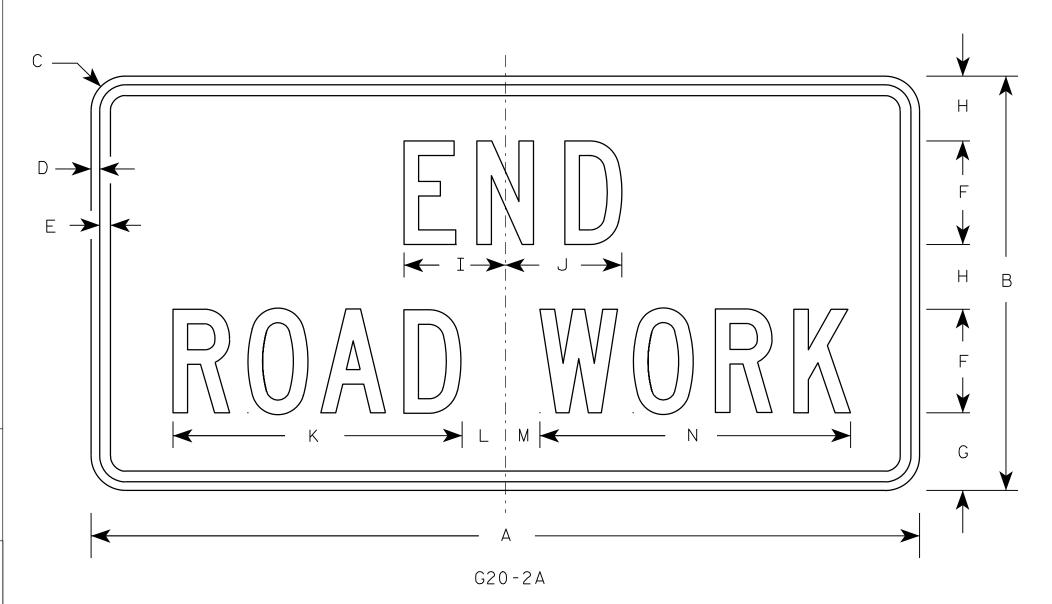
PLOT BY: mscj9h

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

2. Color:

Background - Orange Message - Black

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



Metric equivalent for this sign is:

SIZE					
1	900	mm	Χ	450	mm
2	1200	mm	Х	600	mm
3	1200	mm	Х	600	mm
4	1200	mm	X	600	mm
5	1200	mm	Х	600	mm

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

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

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

HWY:

COUNTY:

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

WISDOT/CADDS SHEET 42

Ε

PROJECT NO:



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

Background - Red Message - White

3. Message Series - C

R	A ————————————————————————————————————	G						F		A
D E F G H I J K L	M N	0	P C) 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 _

Matther R have for State Traffic Engineer

DATE 11/12/15

PLATE NO. _____R1-1.13

SHEET NO:

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

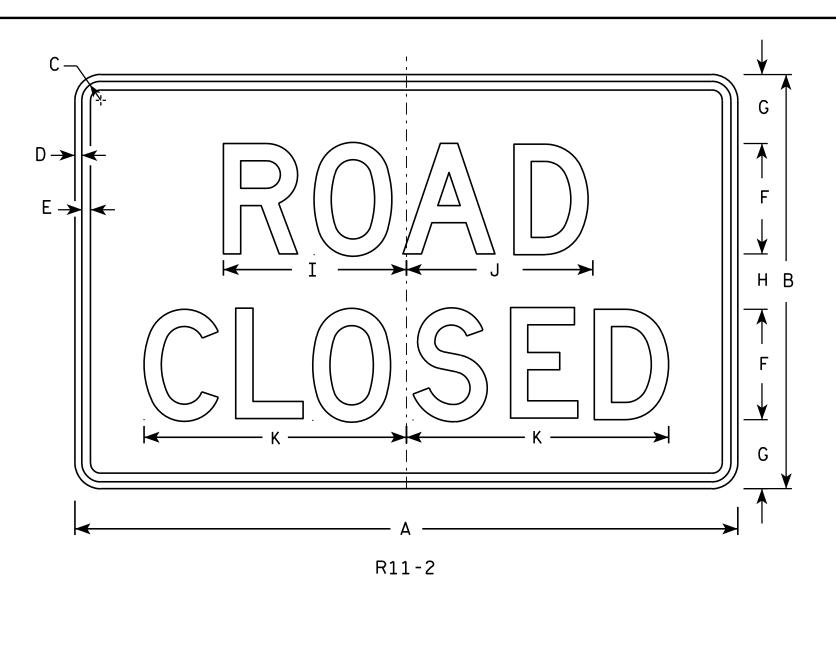
HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

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

PLOT SCALE: 4.427909:1.000000

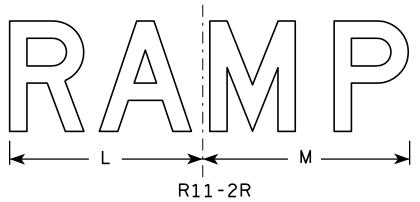


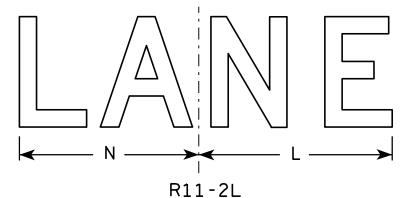
<u>NOTES</u>

- 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.





PLOT NAME :

SIZE	E A	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																											
25	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2N	1 48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	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

APPROVED

Matther R Raw

For State Traffic Engineer

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

SHEET NO:

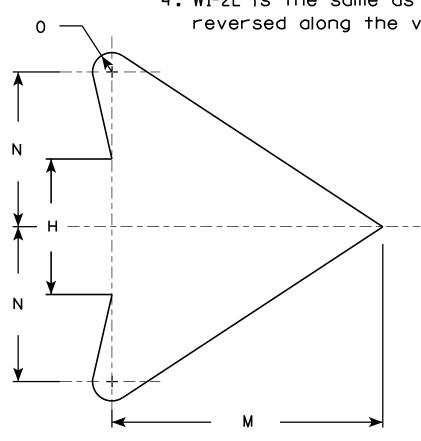
PROJECT NO:

HWY:

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW DETAIL	ARROW	DETAIL	
--------------	-------	--------	--

								W	1-2R													<u> </u>	11011	DLIA	<u></u>		
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	v	W	×	Y	Z	Areo sq. ft.
1	24		1 1/8	3∕8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 1/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 %	10 1/2	6	3/4												9.0
3	36		1 1/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
4	36		1 1/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 %	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1												16.0
			•																								

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

DATE <u>5/15/12</u>

15/12 PLATE NO. W1-2.10

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W12.DCN

PROJECT NO:

← H →

HWY:

PLOT DATE: 15-MAY-2012 14:03

PLOT BY: mscsja

PLOT SCALE: 6.202372:1.000000

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

Background - Yellow 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.

c —	A A
	G
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
◄	•
W1-6	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3%	3/8		9	10	3/4	5 %	4 3/4	2 3/8	14 %	29 1/4													4.5
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 ¾													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	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

COUNTY:

STANDARD SIGN W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED MG

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W16.DGN

HWY:

PROJECT NO:

PLOT DATE: 07-JUN-2010 10:37

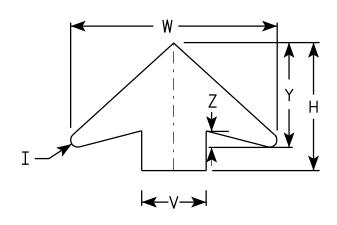
PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.959043:1.000000

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

PLOT BY: mscsja

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	Area sq. ft.
1																											
25	36		1 %	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 %	9.0
2M	36		1 %	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 ¾	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
3	36		1 %	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 %	9.0
4	48		2 1/4	3/4	1	19 1/4	10 ¾	17 3/8	%	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9	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 ¾	12	8	25 %	3/8	13	2	16.0

STANDARD SIGN W3 - 5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

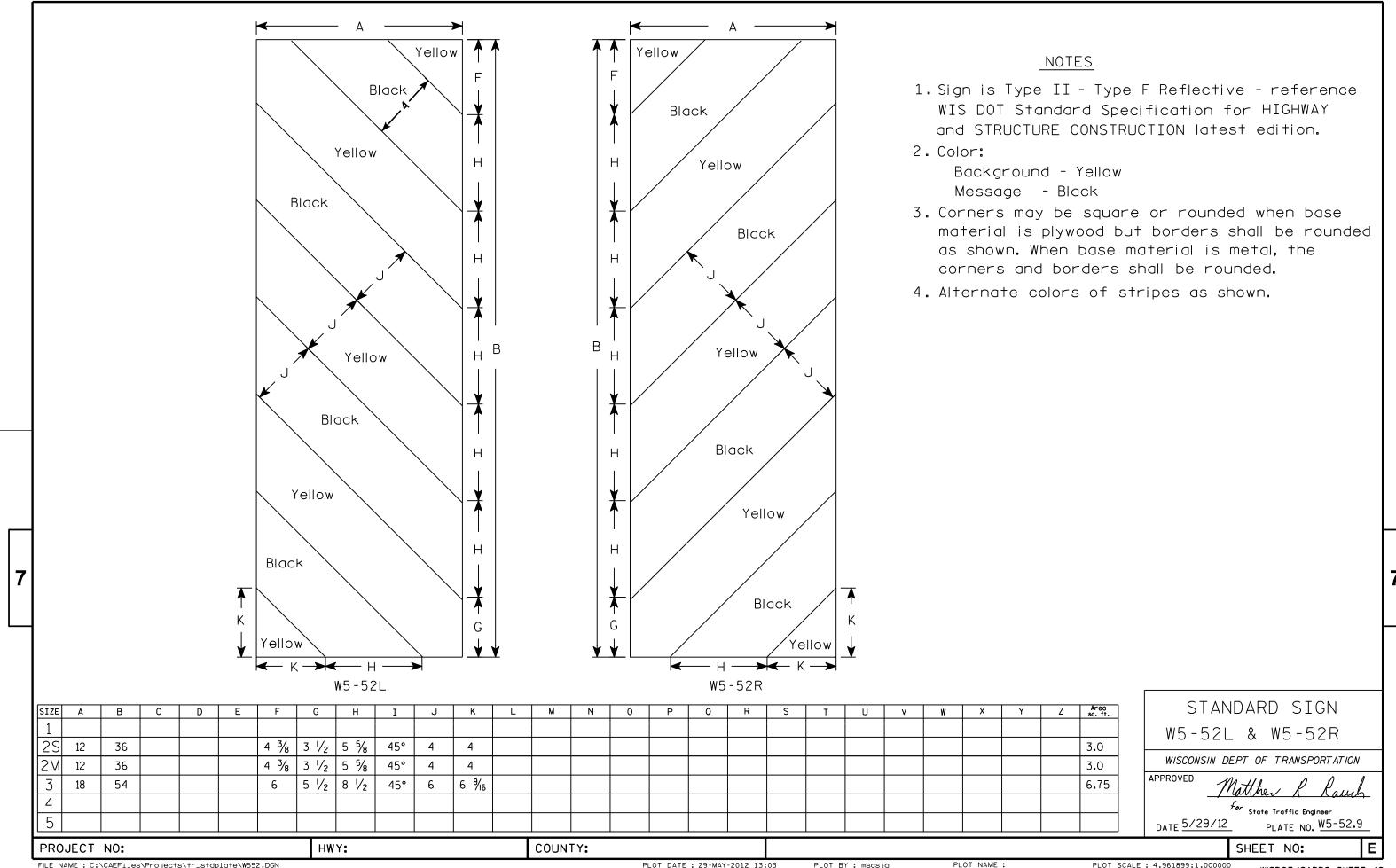
PLATE NO. <u>W3-5.5</u> DATE <u>5/29/12</u>

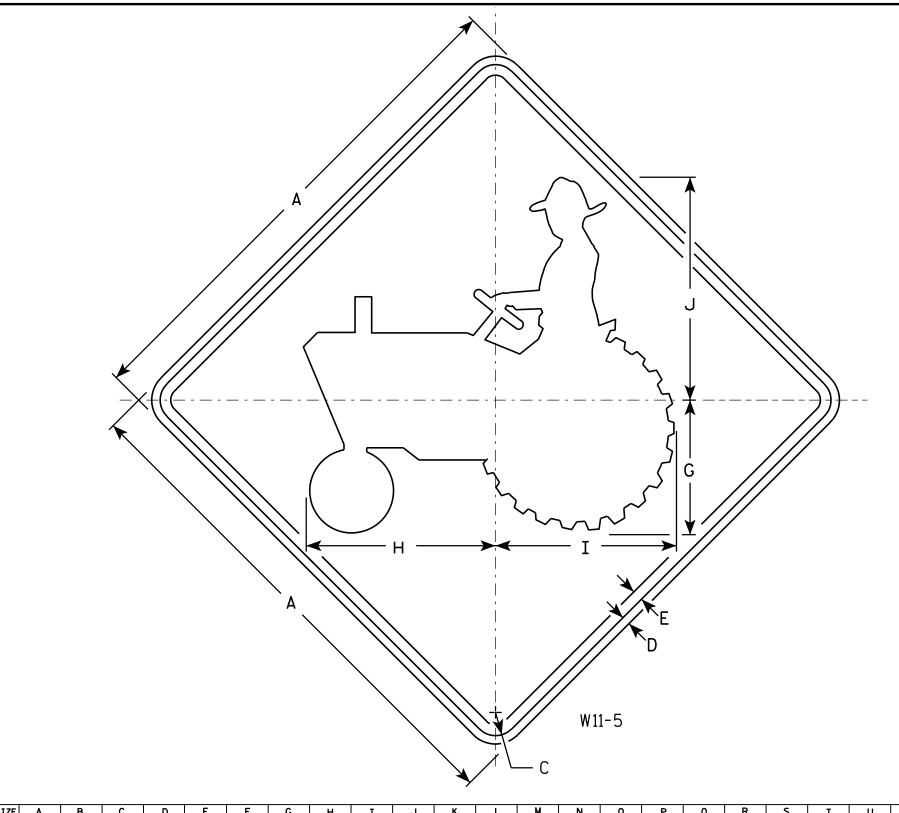
SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W35.DGN

PROJECT NO:

PLOT DATE: 29-MAY-2012 10:52





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

Background - Yellow Message - Black

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

SIZE A 3/8 1/2 1 1/8 6 3/8 9 8 5/8 10 5/8 24 4.0 1 3/8 1/2 5/8 11 1/4 10 3/4 13 1/4 30 6.25 11 1/4 10 3/4 13 1/4 2M 30 1/2 1 3/8 6.25 3 1 1/8 9 13 1/2 12 1/8 16 5/8 ₹4 36 9.0 5 12 3/4 18 17 1/4 21 1/8 2 1/4 3/4 48

COUNTY:

STANDARD SIGN W11-5

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/13/13

SHEET NO:

PLATE NO. W11-5.6

PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W115.DGN HWY:

PLOT DATE: 13-MAR-2013 12:53

PLOT BY: mscj9h

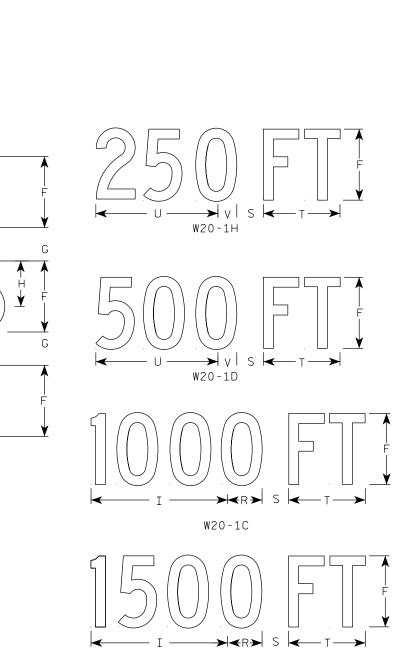
PLOT NAME :

PLOT SCALE: 5.706180:1.000000

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

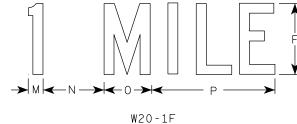
Background - Orange Message – Black

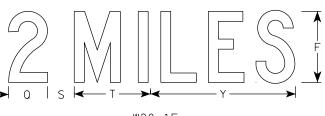
- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1B







W20-1E

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

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer
PLATE NO. W20-1.11

DATE <u>9/25/19</u>

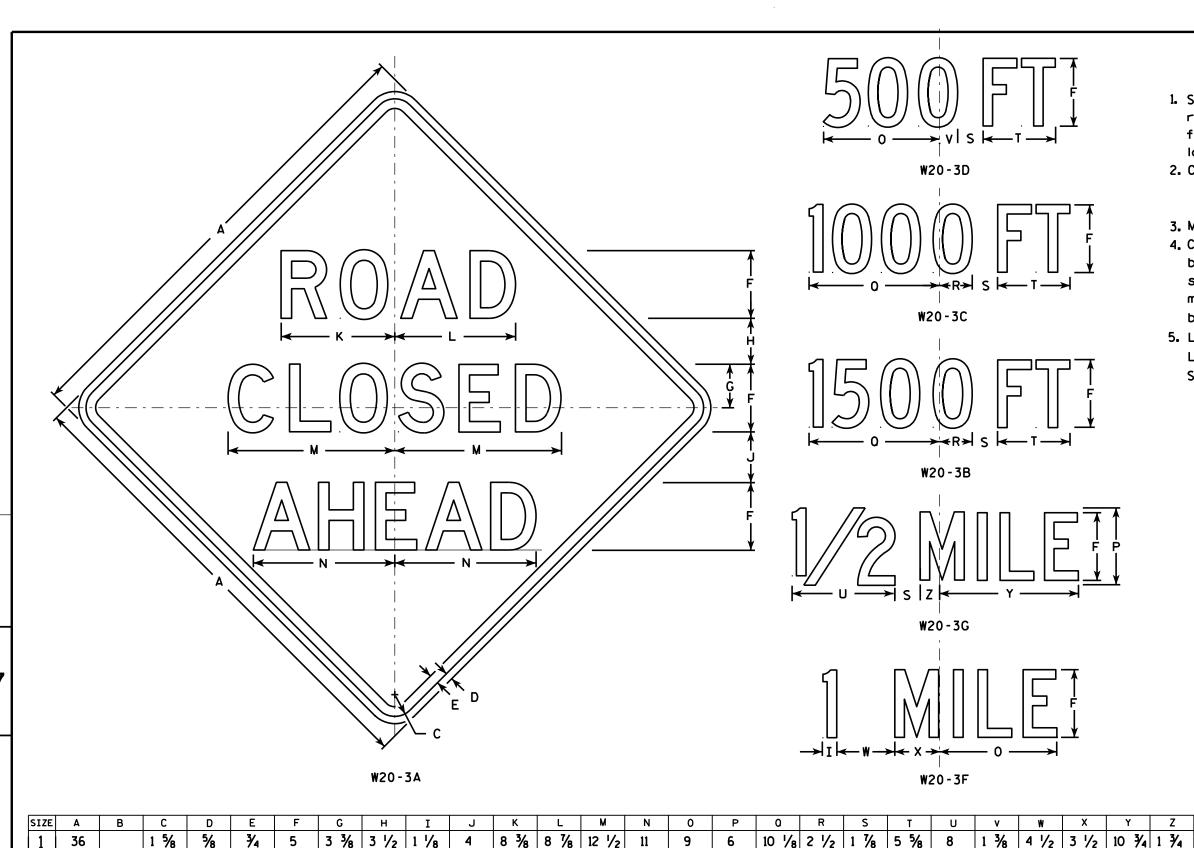
SHEET NO:

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

PROJECT NO:

W20-1A

Ε



1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

| 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

COUNTY:

NOTES

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

Background - Orange Message - Black

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

4 \(\frac{5}{8} \) 14 \(\frac{3}{8} \) 2 \(\frac{3}{8} \) 16.0 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 4 % | 14 % | 2 % | 16.0 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 4 5/8 14 3/8 2 3/8 16.0

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

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11 PLATE NO. W20-3.7

SHEET NO: PLOT NAME : PLOT BY: mscj9h

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN

2 1/4

2M

5

48

48

48

48

PROJECT NO:

3/4

3/4

3/4

3/4

3/4

HWY:

PLOT DATE: 18-MAR-2011 12:08

13 1/2 3 3/8 2 5/8

7 1/2 10 5/8 1 7/8

7 1/2 10 5/8 1 7/8

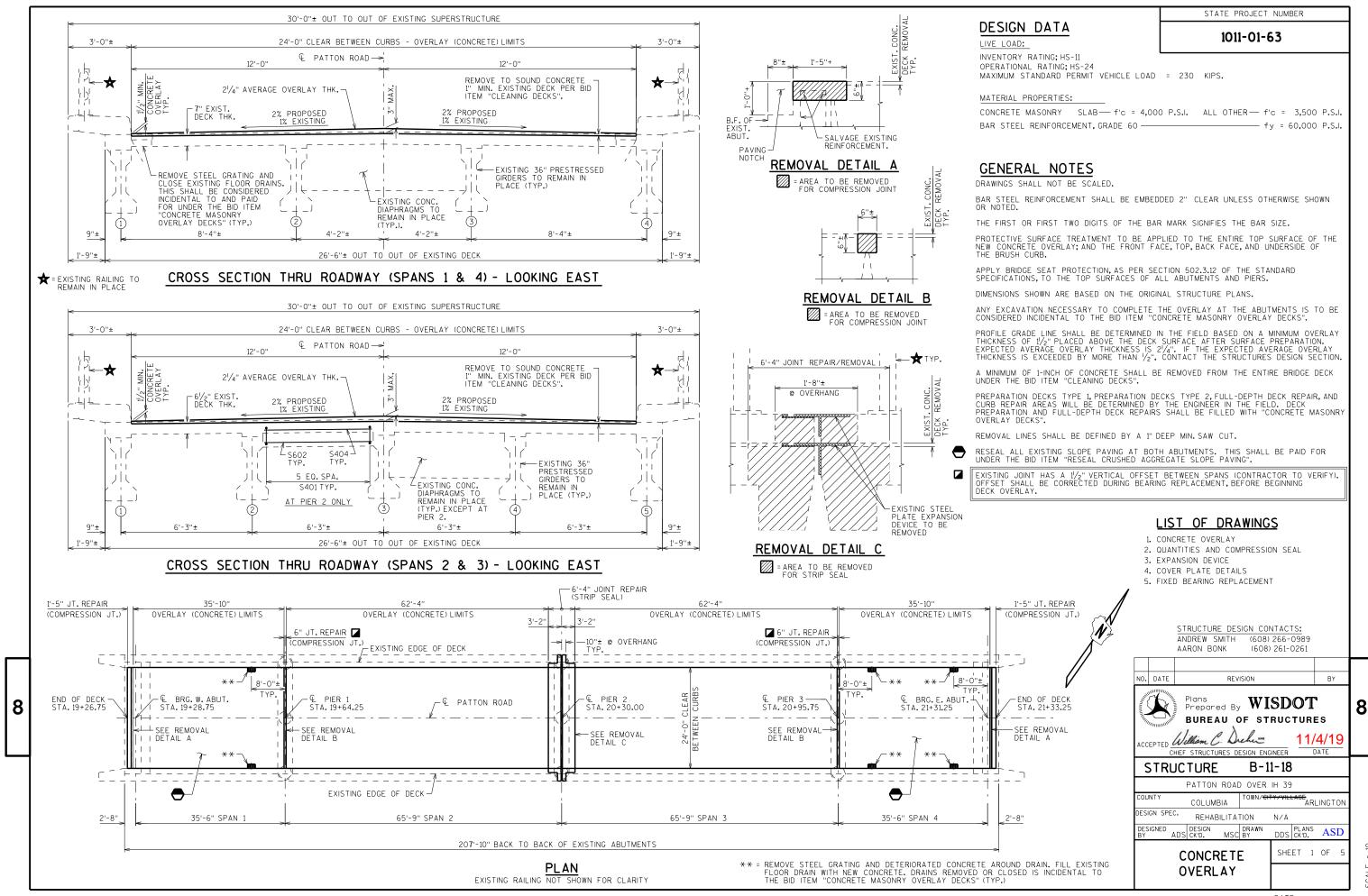
10 % 1 %

7 1/2

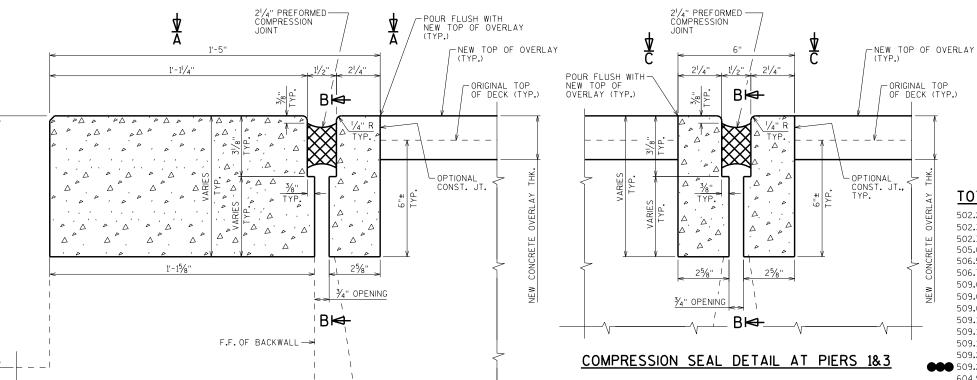
13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

PLOT SCALE: 9.931739:1.000000



1011-01-63



LEGEND

(IA) 21/4" PREFORMED COMPRESSION JOINT

<u>NOTES</u>

FABRICATOR SHALL PROVIDE MEANS OF KEEPING PREFORMED COMPRESSION SEAL CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR A 21/4" PREFORMED COMPRESSION SEAL INSTALLATION.

 $2^1\!\!/_4$ " PREFORMED COMPRESSION SEAL WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC $2^1\!\!/_4$ -INCH".

TOTAL ESTIMATED QUANTITIES

502.2000	COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC 2 1/4-INCH	106	LF
502.3101	EXPANSION DEVICE B-11-18 —	24	LF
502.3200	PROTECTIVE SURFACE TREATMENT —	830	SY
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1195	LB
506.5000	BEARING ASSEMBLIES FIXED B-11-18 —	18	EACH
506.7050.S	REMOVING BEARINGS B-11-18 —	18	EACH
509.0301	PREPARATION DECKS TYPE 1 —	20	SY
509.0302	PREPARATION DECKS TYPE 2 —	10	SY
509.0500	CLEANING DECKS —	551	SY
509.1000	JOINT REPAIR—————	28	SY
509.1200	CURB REPAIR —	150	LF
509.1500	CONCRETE SURFACE REPAIR —	100	SF
509.2000	FULL-DEPTH DECK REPAIR ————————————————————————————————————	1	SY
509.2500	CONCRETE MASONRY OVERLAY DECKS	42	CY
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	280	SY
SPV.0060	CLEANING AND PAINTING BEARINGS —	18	EACH

INCLUDES CONCRETE FOR THE FOLLOWING BID ITEMS:
PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2,
JOINT REPAIR, CURB REPAIR, FULL-DEPTH DECK REPAIR AND
CONCRETE FOR COMPRESSION JOINT SEALER LOCATIONS.

TCLEAN & PAINT BEARINGS AT THE ABUTMENTS AND PIER 2.

REMOVE ENOUGH OF THE EXISTING CURB-CONCRETE TO PROPERLY INSTALL NEW COMPRESSION JOINT. NOTE THAT ALL HORIZ. AND VERT. STEEL REINFORCEMENT IS TO REMAIN IN PLACE AND SHALL EXTEND FULL LENGTH INTO NEW WORK. MATCH EXISTING -SHAPE OF CURB TOP OF NEW-CONCRETE OVERLAY 21/4" PREFORMED —— COMPRESSION JOINT

SECTION C-C

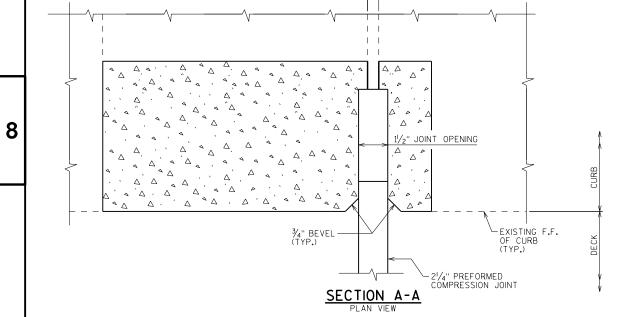
3/4" BEVEL -(TYP.)

21/4" PREFORMED -COMPRESSION

EXISTING OPENING

11/2" JOINT OPENING

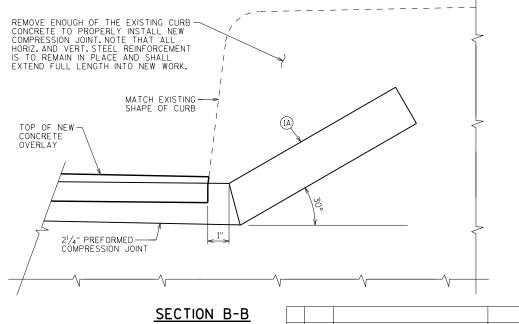
-EXISTING F.F. OF CURB (TYP.)



ABUTMENT

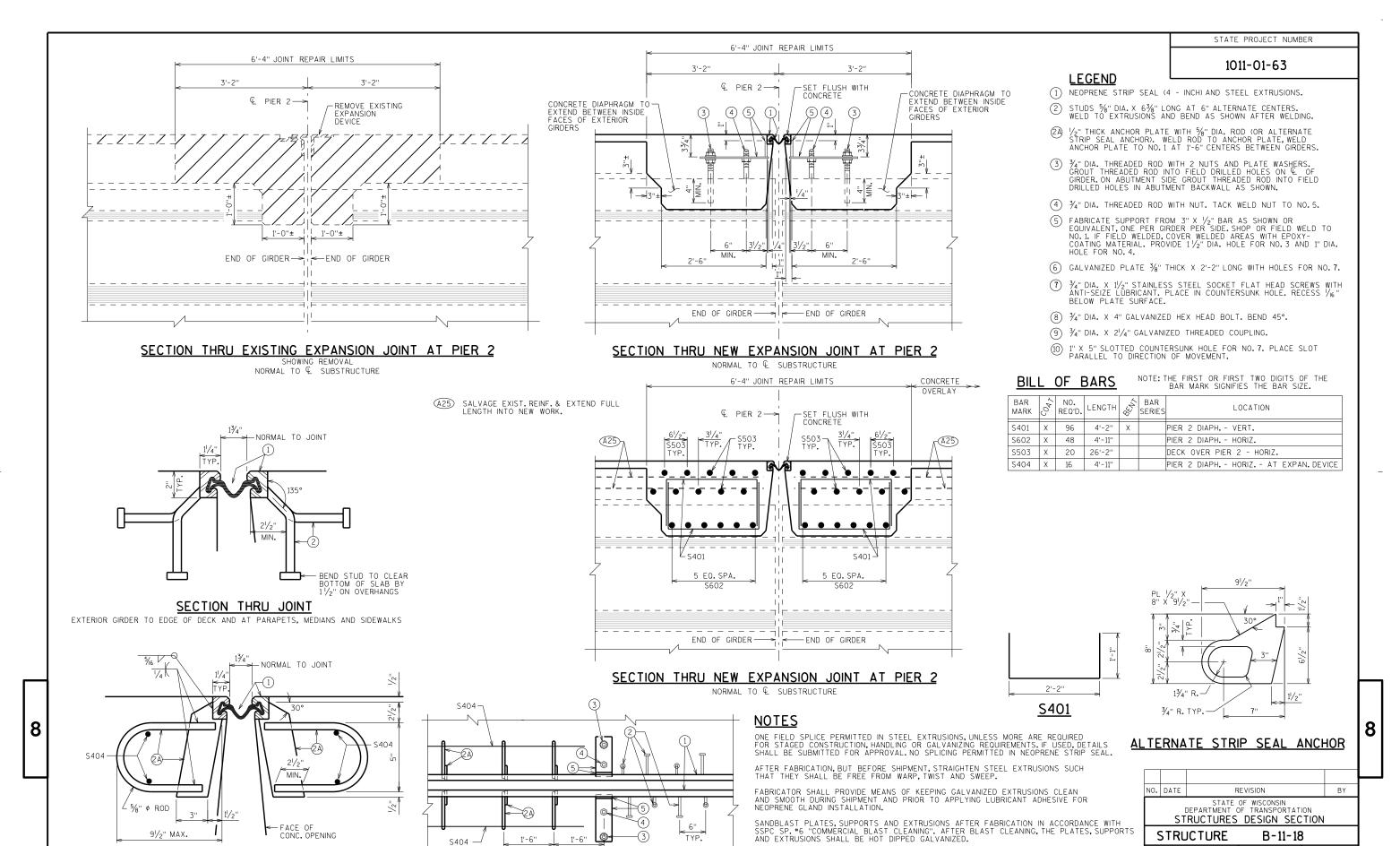
COMPRESSION SEAL DETAIL AT ABUTMENTS

EXISTING OPENING



NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-11-18 DDS CK'D. ASD QUANTITIES AND SHEET 2

COMPRESSION SEAL



ANCHOR SYSTEM NO.8 AND NO.9 SHALL CONFORM TO ASTM A307 AND SHALL BE

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-11-18".

GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

MAX.

€ OF EXT. GIRDER

AT DECK (SPAN 2)

SECTION THRU JOINT - PIER 2

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.

AT DECK (SPAN 3)

MAX.

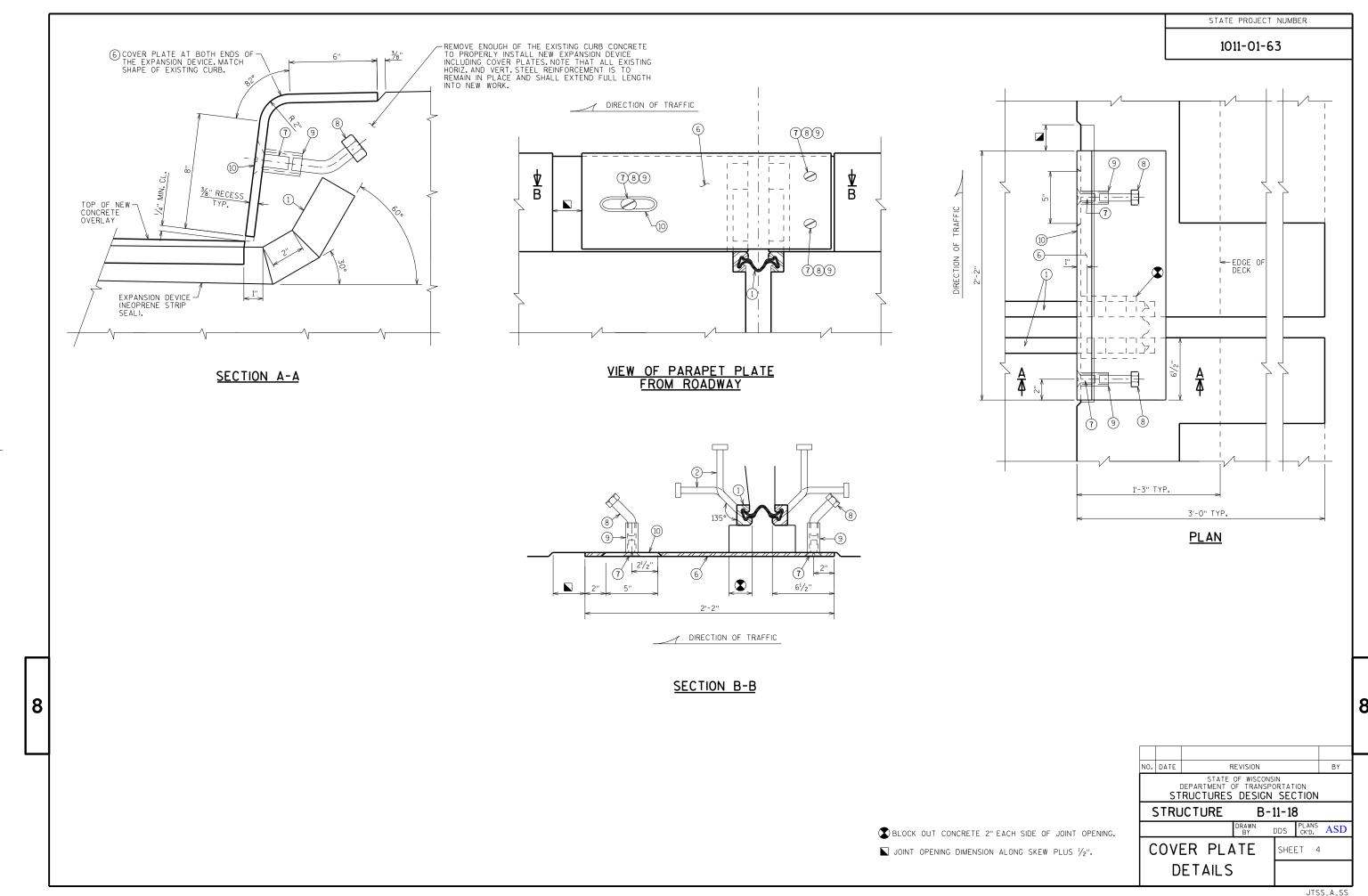
PART PLAN

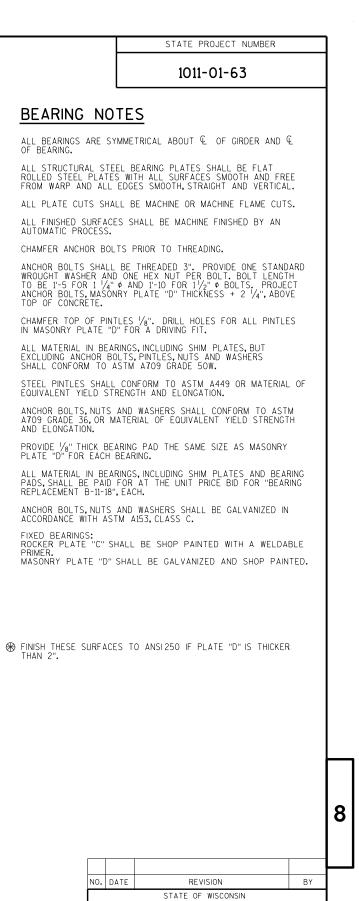
DDS PLANS ASD

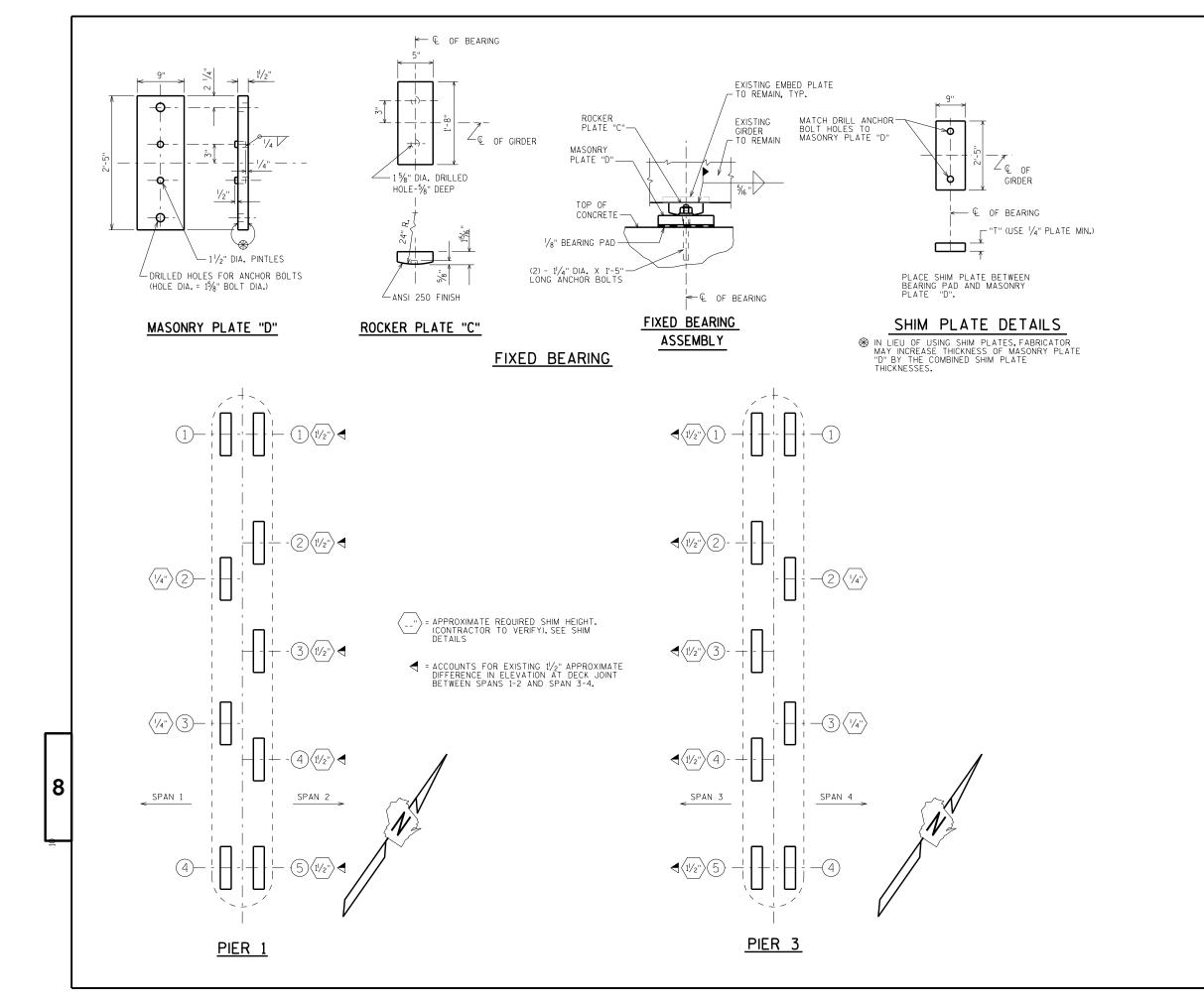
SHEET 3

EXPANSION

DEVICE







AUTOMATIC PROCESS.

TOP OF CONCRETE.

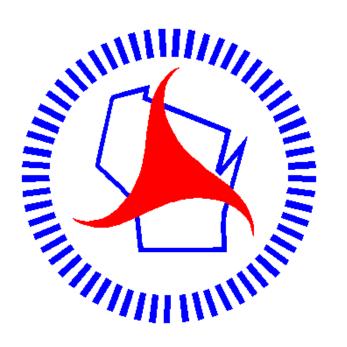
AND ELONGATION.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-11-18 DDS CK'D. ASD SHEET 5 FIXED BEARING

REPLACEMENT

SCALE

Notes



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