JULY 2015

#### ORDER OF SHEETS

Section No. 1 Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Miscellaneous Quantities

Right of Way Plat Plan and Profile

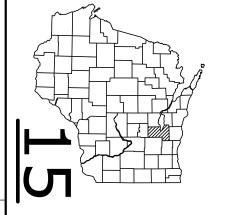
Standard Detail Drawings

Sign Plates Section No. 8 Structure Plans

Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 146



#### DESIGN DESIGNATION

A.A.D.T.	2015	=	7000
A.A.D.T.	2035	=	8000
D.H.V.		=	800
D.D.		=	60/40
T.		=	13.0
DESIGN SI	PEED	=	60 mph
ESALS		=	2.430.900

#### CONVENTIONAL SYMBOLS

00.1112.11.10.11.12	
PLAN	
CORPORATE LIMITS	<u> </u>
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	L
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	+= =
PROPOSED CULVERT (Box or Pipe)	

SPECIAL DITCH GRADE ELEVATION UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE WATER

**PROFILE** GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) \_ LABEL \_ \_ CULVERT (Profile View)

UTILITY PEDESTAL POWER POLE TELEPHONE POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

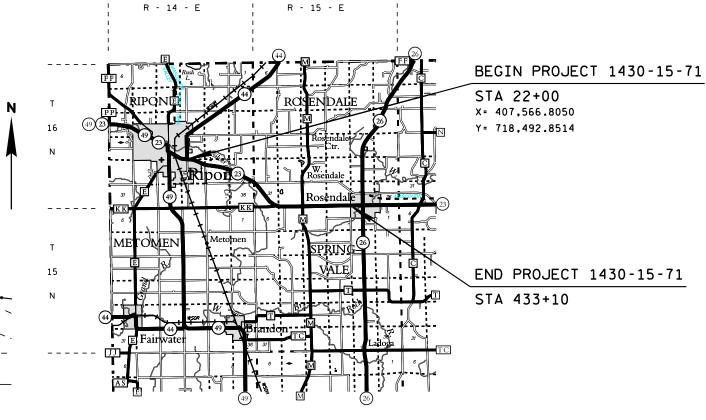
PLAN OF PROPOSED IMPROVEMENT

# RIPON - ROSENDALE

DOUGLAS ST - LAFAYETTE ST

**STH 23** FOND DU LAC COUNTY

> STATE PROJECT NUMBER 1430-15-71



COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS) HORIZONTAL, NAD 83 (2007) VERTICAL NAVD 88 (2007) FOND DU LAC COUNTY.

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2015424

STATE PROJECT

1430-15-71

REPARED BY Surveyor B REESE Designer B LEARST Project Manager Regional Examiner Regional Supervisor R WAGNER C.O. Examiner

APPROVED FOR THE DEPARTMENT DATE: \_\_1-22-2015

FILE NAME : F:\D3\_143015\010101\_ti.dgn

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PLOT DATE: 25-NOV-2014 11:34

Ø

PLOT BY : dotbrb

PLOT NAME : 010101\_+i.i

SCALE \_\_\_\_\_ 2 MI.

TOTAL NET LENGTH OF CENTERLINE = 7.786 MI.

ORG DATE: 03-26-12

Originator: NE Region

PLOT SCALE: 21120.00043:1

#### GENERAL NOTES

CURVE DATA IS FOR INFORMATIONAL PURPOSES ONLY. MATCH EXISTING SUPERELEVATIONS.

LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

CROSS SLOPES AS SHOWN ON THE TYPICAL SECTION WILL VARY AT THE INTERSECTIONS. SEE DETAIL SHEETS AND CROSS SECTIONS FOR SLOPES AND GRADES.

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

WHEN PORTIONS OF EXISTING ASPHALTIC SURFACES ARE TO BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION, THE LINE OF SUCH REMOVAL SHALL BE NEATLY DELINEATED WITH A SAW CUT JOINT THROUGH THE ASPHALTIC SURFACE SO THAT REMOVAL OF THE ASPHALT SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS. THE LOCATION OF SAW JOINTS AND THE AMOUNT REMOVED AT SIDE ROADS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORATION OF ASPHALTIC CONCRETE DRIVEWAYS, SIDEWALKS OR SIDE STREETS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

EXISTING DRAINAGE DITCHES AND CULVERT PIPES SHALL REMAIN FUNCTIONAL DURING EXCAVATION OPERATIONS.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL NEW CONCRETE CULVERT PIPES SHALL REQUIRE JOINT TIES.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

DIMENSIONS OF RIPRAP PLACEMENT SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

IN THE PERFORMANCE OF THE WORK UNDER THE ITEM "MULCHING", ALL AREAS SEEDED AND FERTILIZED SHALL BE MULCHED AS DIRECTED BY THE ENGINEER.

SHAPING, TRIMMING AND DISPOSAL OF EXISTING SHOULDERS WILL BE INCIDENTAL TO THE BID ITEM OF BASE AGGREGATE DENSE  $\frac{3}{4}$ -INCH.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN PIPE LAYING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAY SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER PIPE IN DRIVEWAY AREA IS INSTALLED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.

PRIOR TO ORDERING DRAINAGE STRUCTURES THE CONTRACTOR SHALL VERIFY EXISTING DRAINAGE INFORMATION.

WETLAND AREAS ARE SHOWN ON PLANS. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO WORK WITHIN SLOPE INTERCEPTS IN THE WETLAND AREAS.

#### UTILITIES

TONY MARCINIAK
ATC MANAGEMENT, INC. - ELECTRICITY
W 234 N 2000 RIDGEVIEW PARKWAY COURT
P.O. BOX 47
WAUKESHA, WI 53187-0047
(262)506-6814
AMARCINIAK@ATCLLC.COM

JASON HOGAN
ALLIANT ENERGY / WISCONSIN POWER AND LIGHT COMPANY - ELECTRICITY
SUITE 1000
4902 N BILTMORE LANE
MADISON, WI 53718
(608) 458-4871
JASONHOGAN@ALLIANTENERGY.COM

JASON HOGAN
ALLIANT ENERGY / WISCONSIN POWER AND LIGHT COMPANY - GAS/PETROLEUM
SUITE 1000
4902 N BILTMORE LANE
MADISON, WI 53718
(608) 458-4871
JASONHOGAN@ALLIANTENERGY.COM

TIM KROEZE
CENTURYLINK - COMMUNICATION LINE
201 STARK ST
P.O. BOX 98
RANDOLPH, WI 53956
(920) 326-2224
TIM.KROEZE@CENTURYTEL.COM

TONY KLATT
CHARTER COMMUNICATIONS - COMMUNICATION LINE
N3760 CTH DJ
JUNEAU, WI53039
(920) 263-0062
TONY.KLATT@CHARTER.COM

TRAVIS DRAKE CITY OF RIPON - WATER 570 ASPEN ST RIPON, WI 54971-1396 (920) 748-4908 TDRAKE©CITYOFRIPON.COM

#### COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

CONTACT: CORMAC MCINNIS
WISDOT-NE REGION
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-492-5638
CORMAC.MCINNIS@DOT.WI.GOV

#### DNR AREA LIAISON

JAY SCHIEFELBEIN
DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION
2984 SHAWANO AVE
GREEN BAY, WI 54313
920-360-3784
JEREMIAH.SCHIEFELBEIN@WISCONSIN.GOV

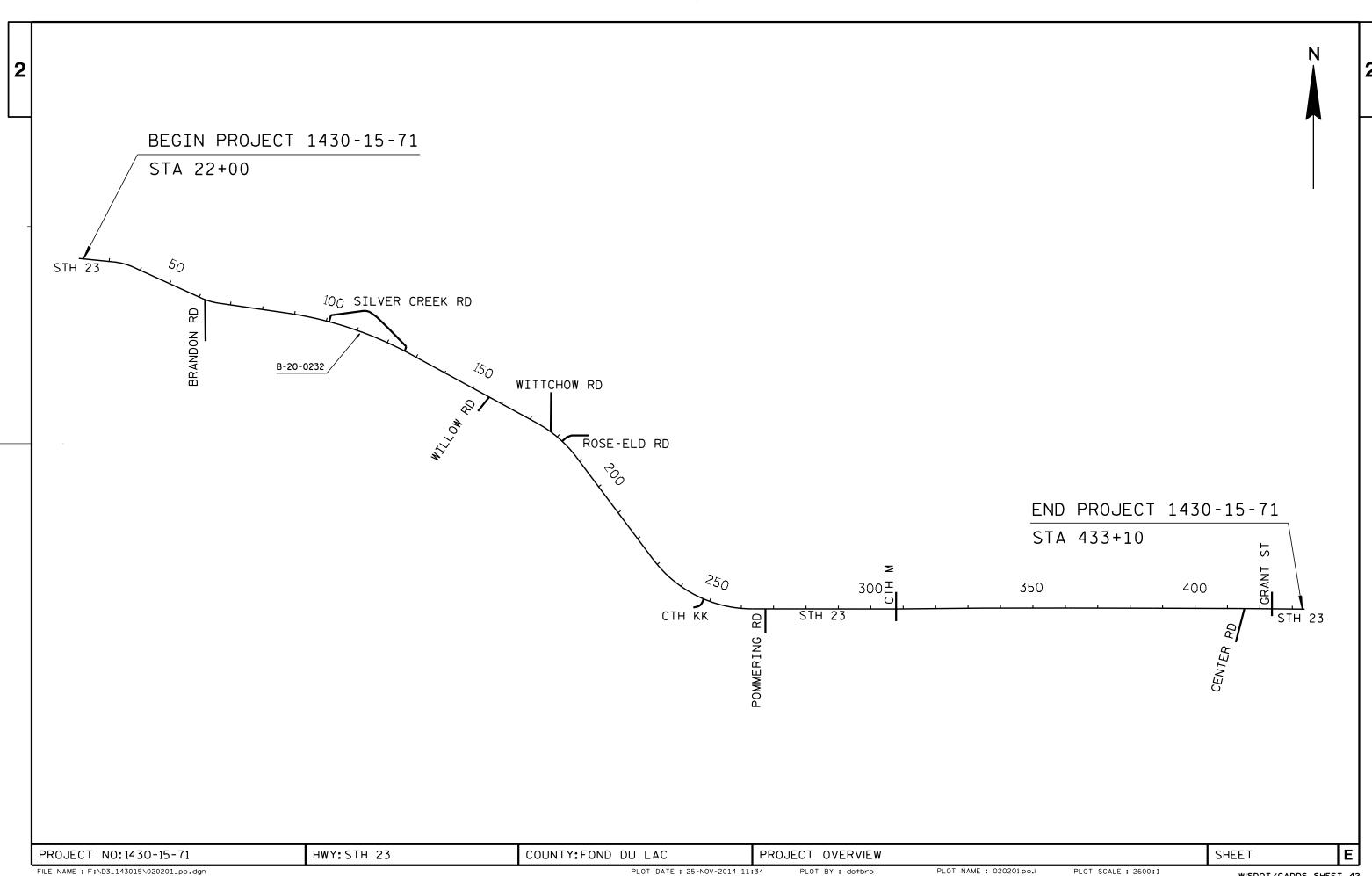


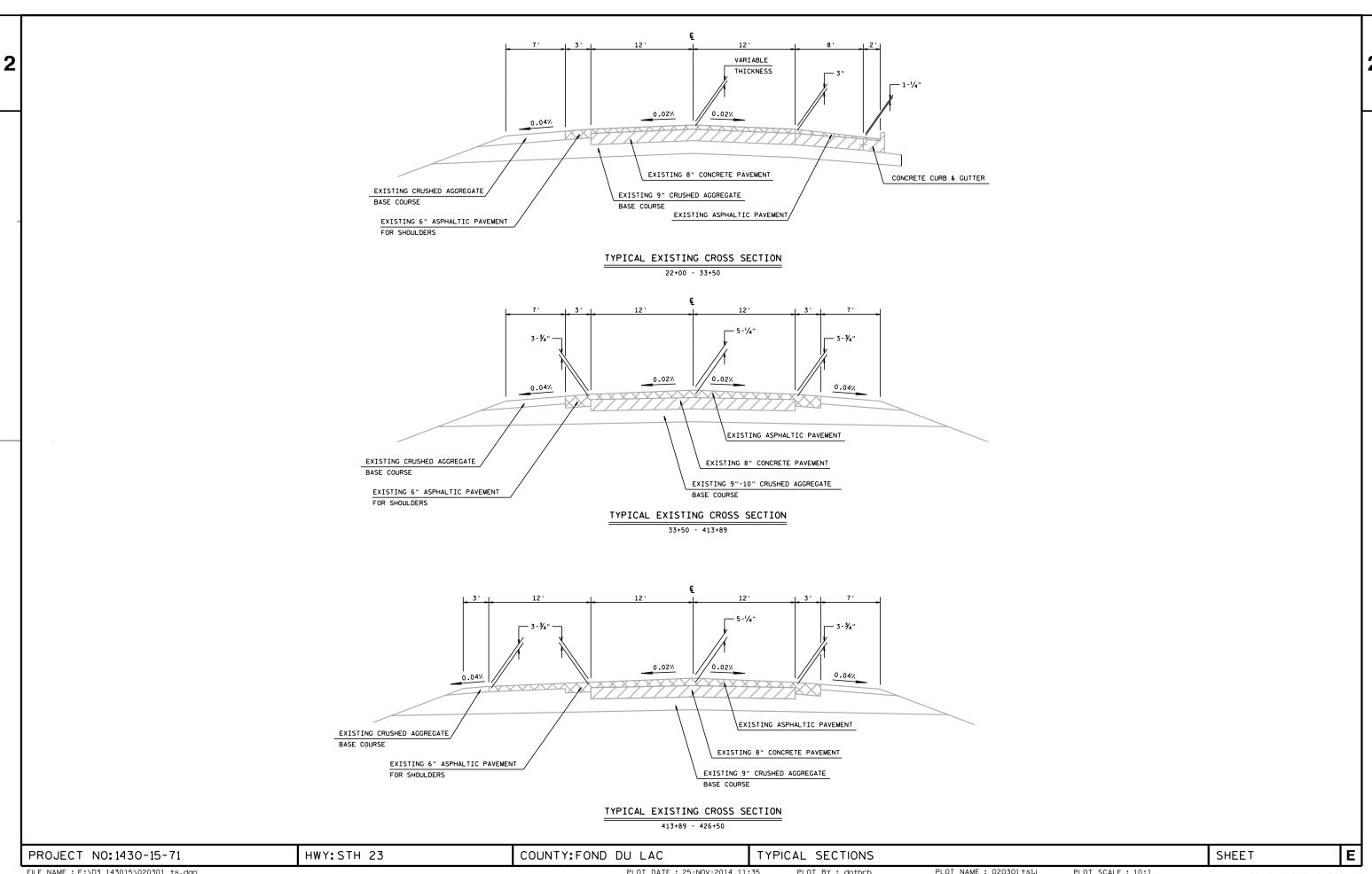
EMERGENCY CONTACT NUMBERS FOR WISCONSIN POWER AND LIGHT COMPANY

WISDOT/CADDS SHEET 42

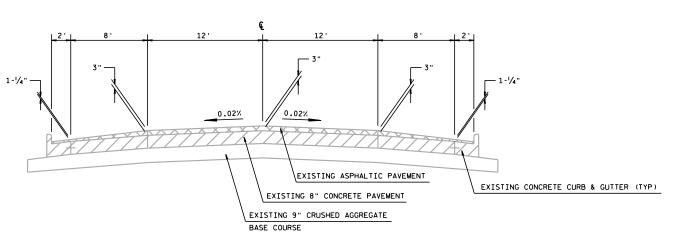
ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-862-6261 GAS 24 HOUR EMERGENCY SERVICE: 1-800-862-6263

PROJECT NO:1430-15-71 HWY:STH 23 COUNTY:FOND DU LAC GENERAL NOTES SHEET E

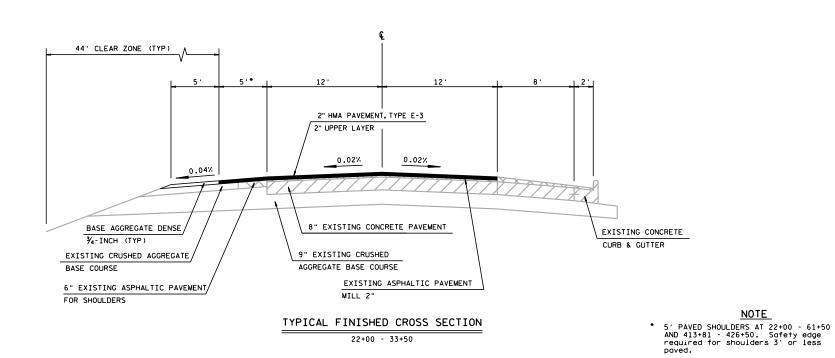




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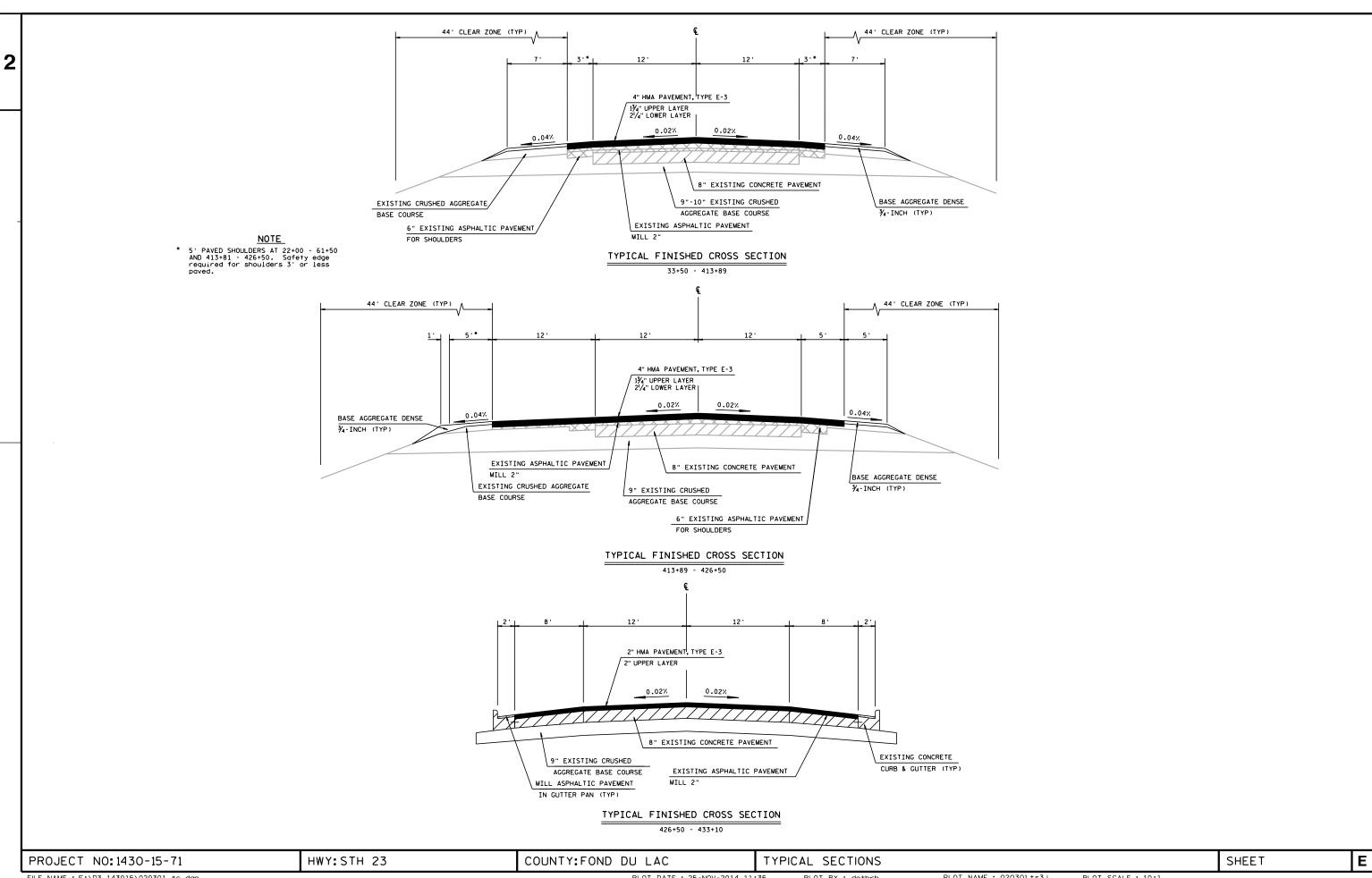
TYPICAL EXISTING CROSS SECTION 426+50 - 433+10



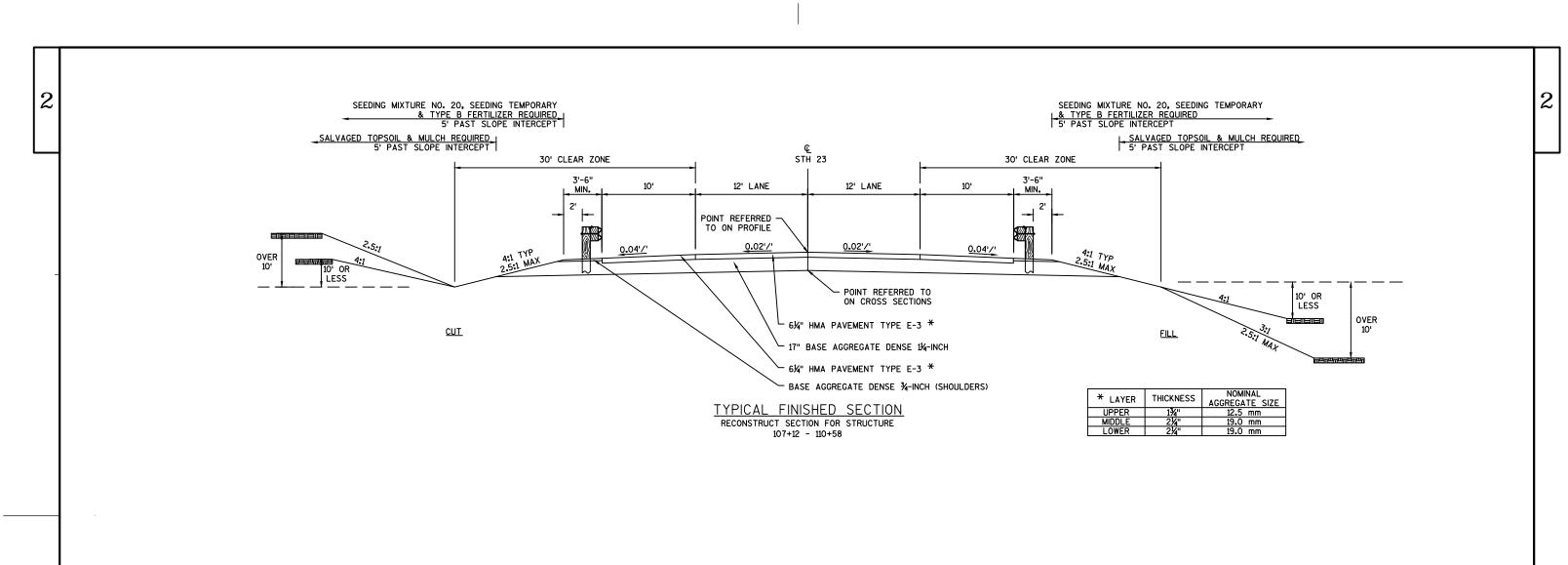
<u>NOTE</u>

PROJECT NO: 1430-15-71 HWY:STH 23 COUNTY: FOND DU LAC TYPICAL SECTIONS SHEET

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FILE NAME: F:\D3\_143015\020301\_ts.dgn PLOT BY: dotbrb PLOT NAME: 020301 ts3.i PLOT SCALE: 10:1 WISDOT/CADDS SHEET 42



PROJECT NO:1430-15-71 HWY:STH 23 COUNTY:FOND DU LAC TYPICAL SECTIONS SHEET E

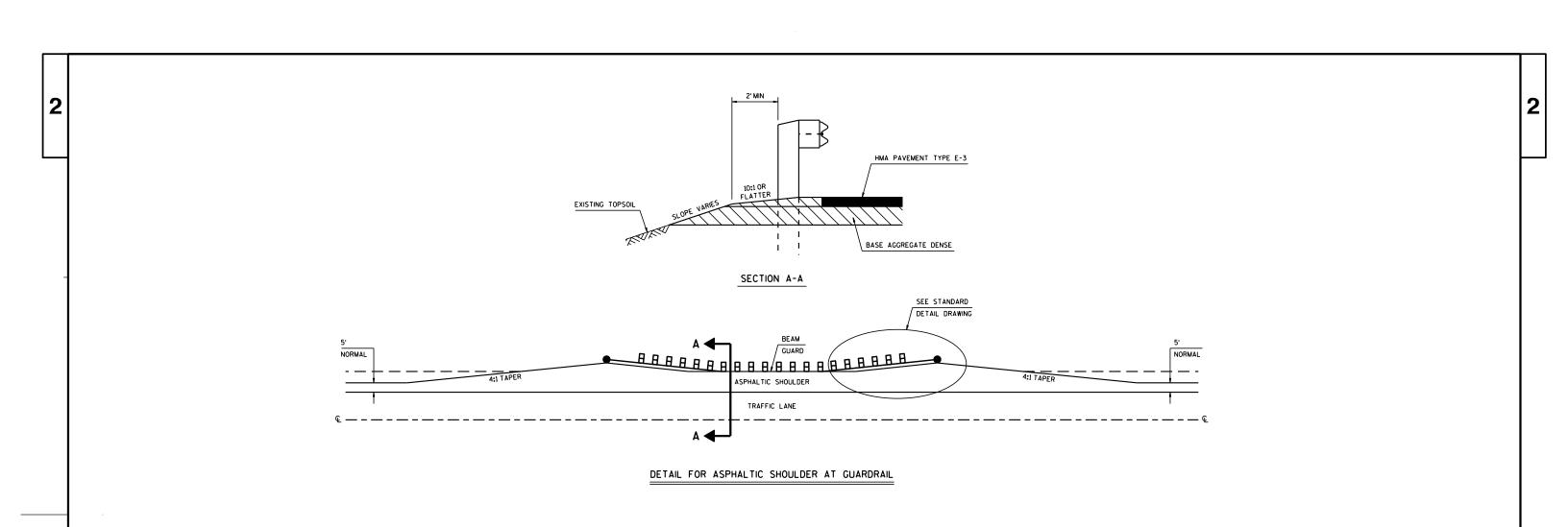
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PLOT DATE: 1/21/2015 10:45 AM

PLOT BY : MAROSZEK, KYLE

PLOT NAME: PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



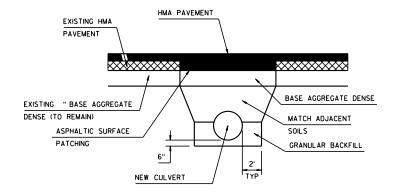
# USE THIS METHOD WHEN USE THIS METHOD WHEN PAVING A 12' ROADWAY PAVING 15' OR MORE

HWY:STH 23 PROJECT NO: 1430-15-71 CONSTRUCTION DETAILS COUNTY: FOND DU LAC SHEET

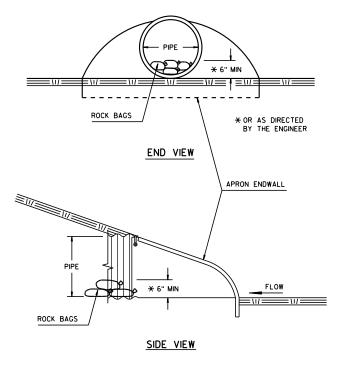
ASPHALTIC CONCRETE PAVING DETAIL AT INTERSECTIONS AND BYPASS LANES

PLOT DATE: 25-NOV-2014 11:35 PLOT NAME : 021001 cdl.i FILE NAME : F:\D3\_143015\021001\_cd.dgn PLOT BY : dotbrb PLOT SCALE : 200:1 WISDOT/CADDS SHEET 42

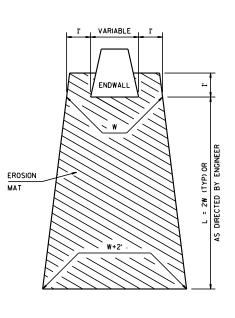
#### EROSION MAT DETAIL FOR DITCHES



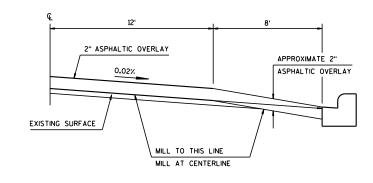
#### DETAIL FOR CULVERT REPLACEMENT



CULVERT PIPE CHECKS

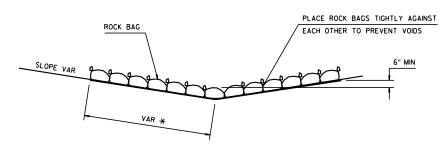


EROSION MAT TREATMENT AT CULVERTS

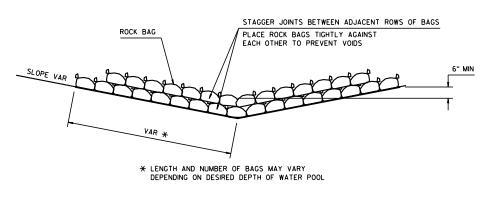


BUTT JOINT DETAIL FOR CURB & GUTTER

STA 426+50 - 439+30



SIDE VIEW (SINGLE LAYER)



#### SIDE VIEW (MULTIPLE LAYER)

PAID AS ROCK BAGS

PROJECT NO:1430-15-71 HWY:STH 23 COUNTY:FOND DU LAC CONSTRUCTION DETAILS SHEET E

FILE NAME: F:\D3\_143015\021001\_cd.dgn

PLOT DATE: 25-NOV-2014 11:35

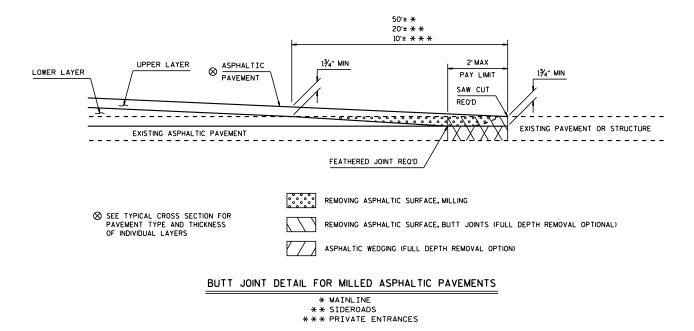
PLOT BY: dotbrb

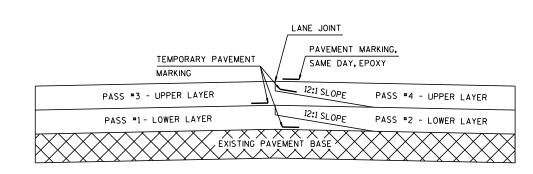
PLOT NAME: 021001 cd2.i

PLOT SCALE: 200:1

WISDOT/CADDS SHEET 42

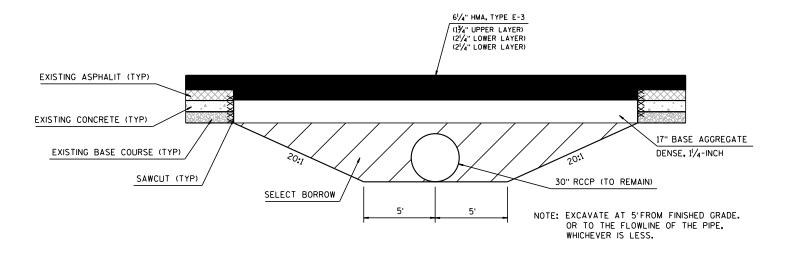






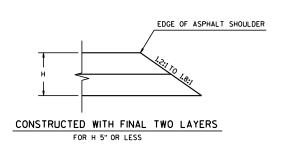
LOWER AND UPPER LAYERS

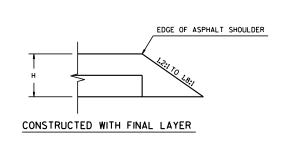
#### PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN ASPHALTIC PAVEMENTS

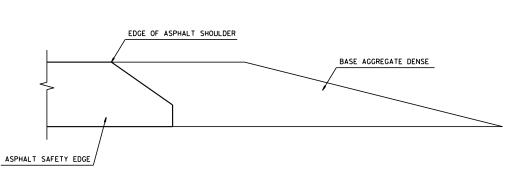


# LONGITUDINAL DETAIL FOR FROST HEAVE REPAIR AREAS

STA 90+99 STA 192+00







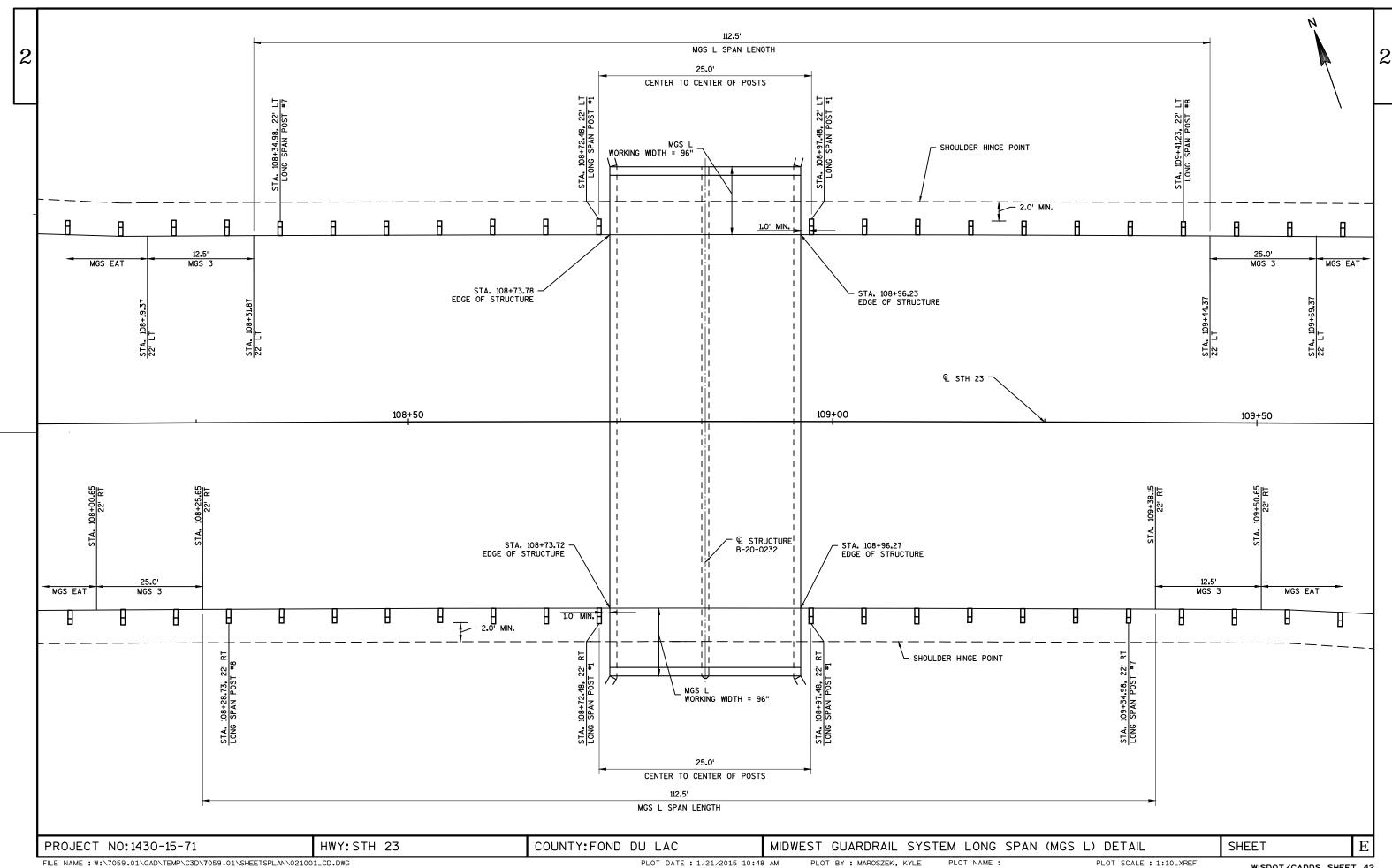
# HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE

SHOULDER AGGREGATE PLACEMENT

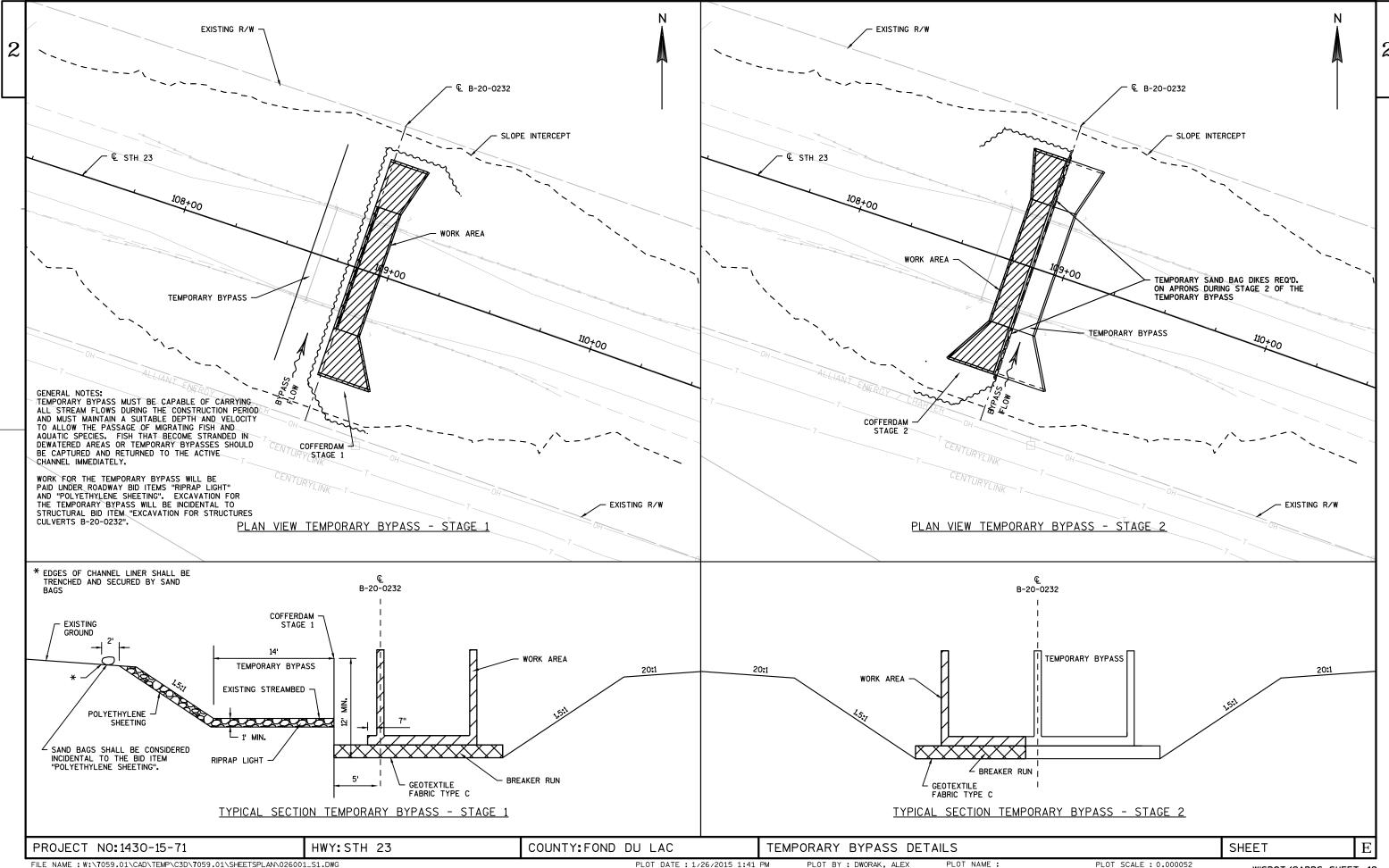
PROJECT NO:1430-15-71 HWY:STH 23 COUNTY:FOND DU LAC CONSTRUCTION DETAILS SHEET **E** 

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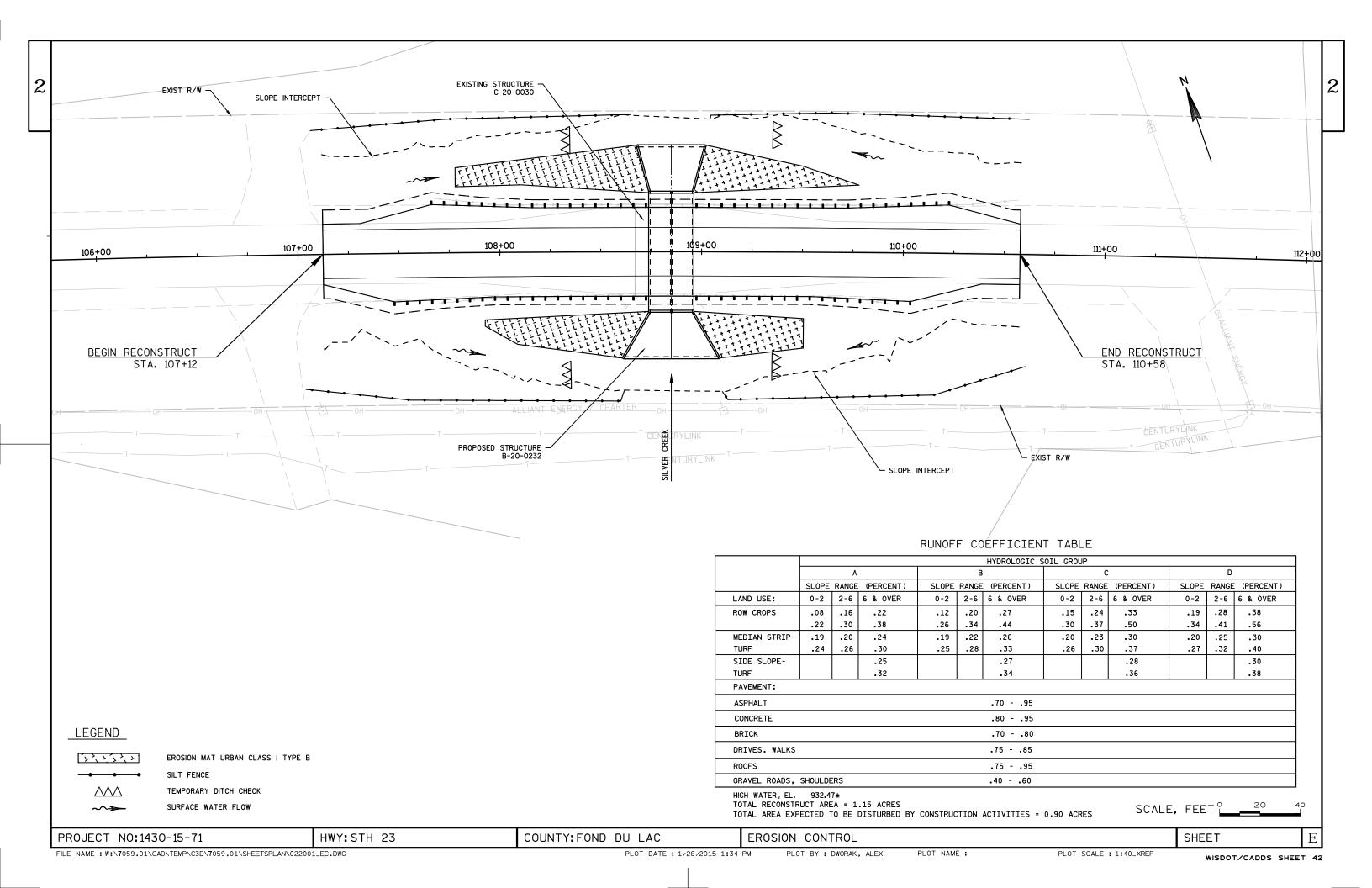


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WISDOT/CADDS SHEET 42



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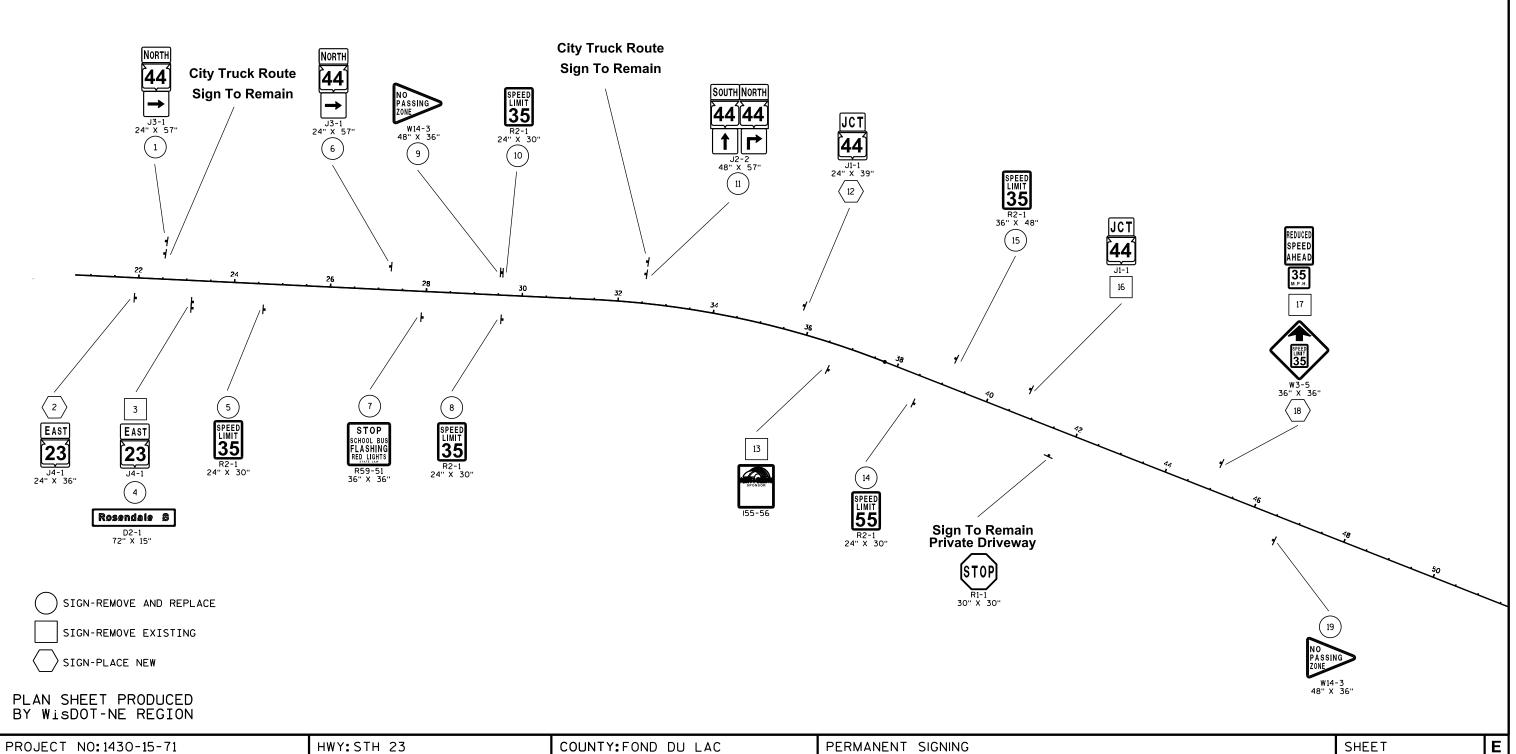
TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

NEW STOP SIGNS (R1-1) PLACED UNDER STAGE \* SHALL HAVE A MINIMUM OF 6'6" OF CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN. THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE

DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.



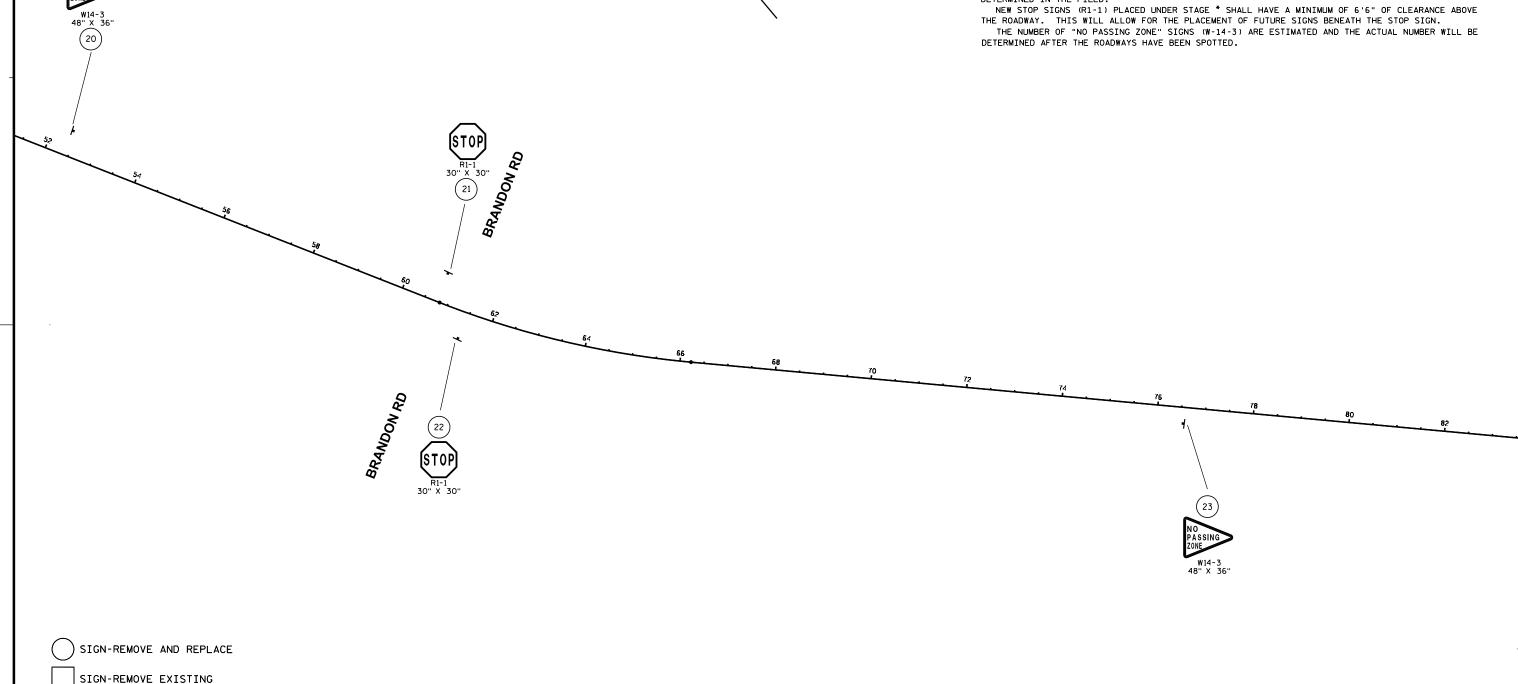
2



TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND

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SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

HWY: STH 23 PROJECT NO: 1430-15-71

COUNTY: FOND DU LAC

PERMANENT SIGNING PLOT DATE: 26-NOV-2013 16:53

PLOT NAME :

PLOT SCALE : 200:1



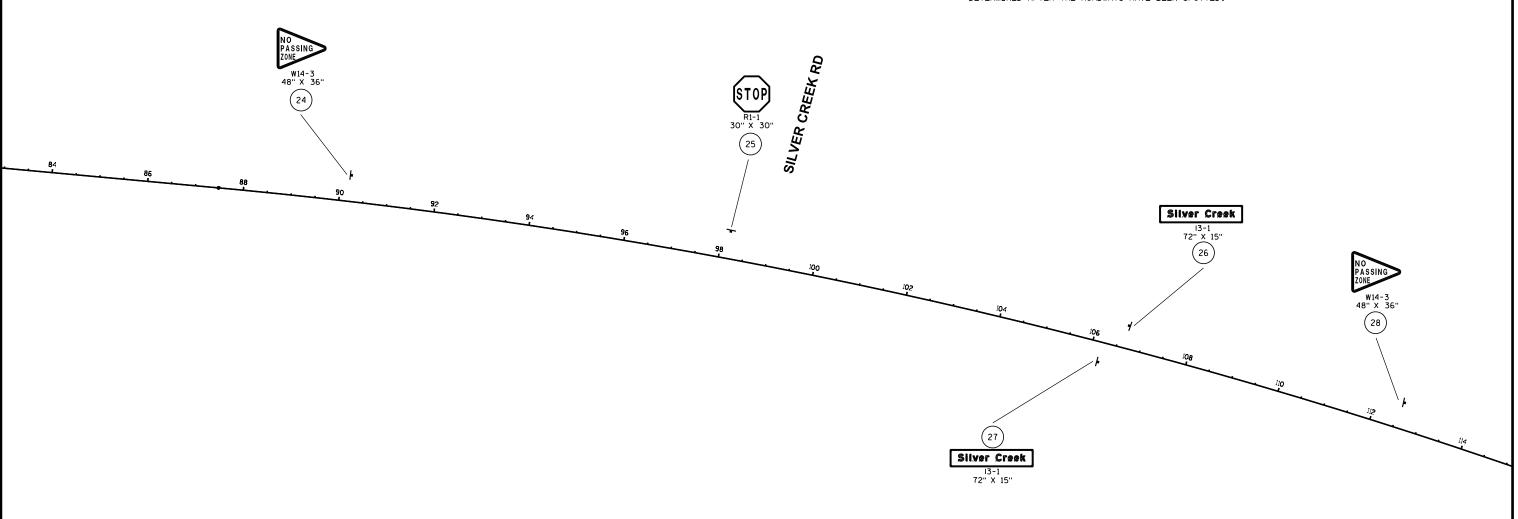
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DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.



) SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

2

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1430-15-71

HWY: STH 23



TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNII. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND

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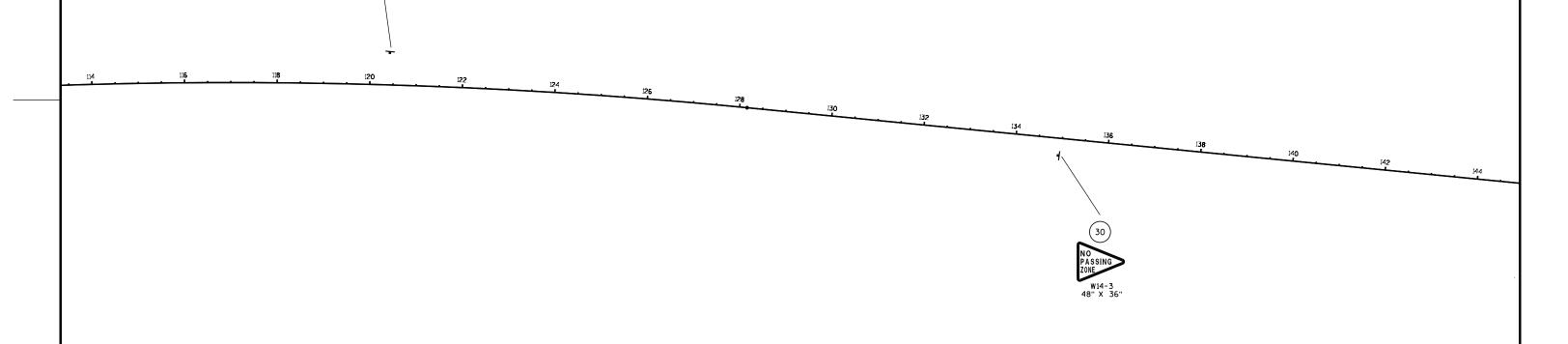
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HWY:STH 23

) SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1430-15-71

COUNTY: FOND DU LAC

PERMANENT SIGNING



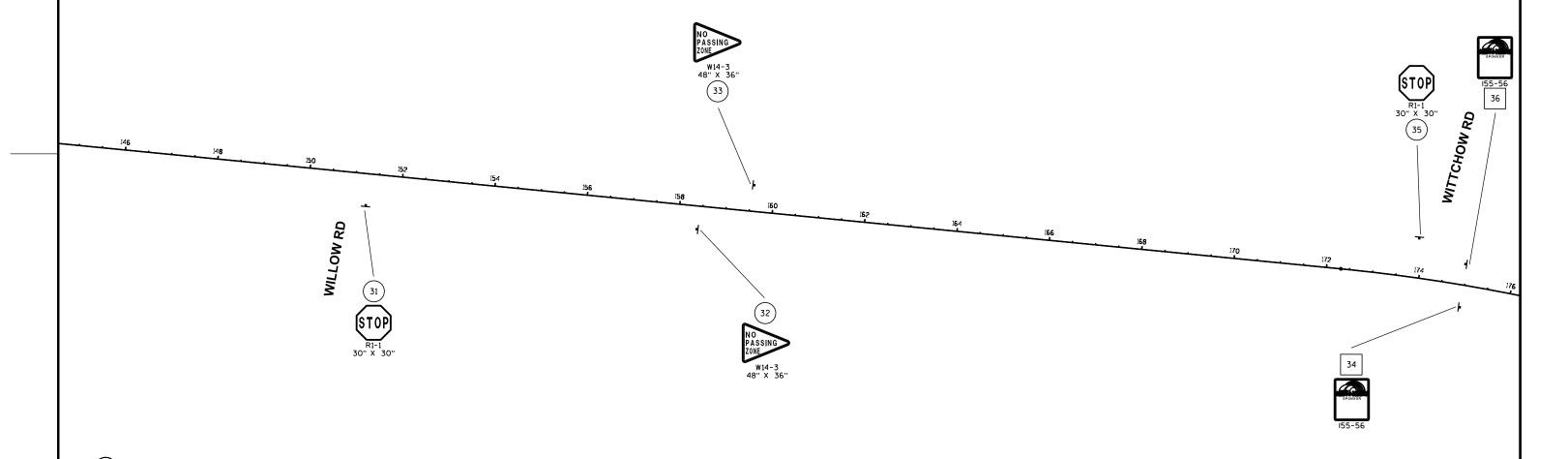
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PLAN SHEET PRODUCED BY WisDOT-NE REGION

SIGN-PLACE NEW

) SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

PROJECT NO: 1430-15-71 HWY:STH 23 COUNTY: FOND DU LAC

PLOT BY: dotj1f

PERMANENT SIGNING

PLOT NAME :

PLOT SCALE : 200:1



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SUPPORTS.

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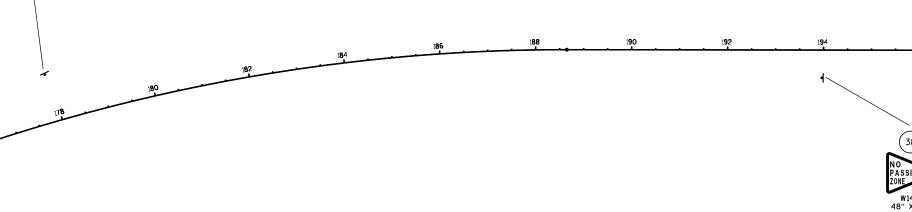
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DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

202

204

206



) SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1430-15-71 HWY: STH 23 COUNTY: FOND DU LAC

PERMANENT SIGNING

PLOT DATE: 26-NOV-2013 16:54

PLOT NAME :

WISDOT/CADDS SHEET 42

PLOT NAME :



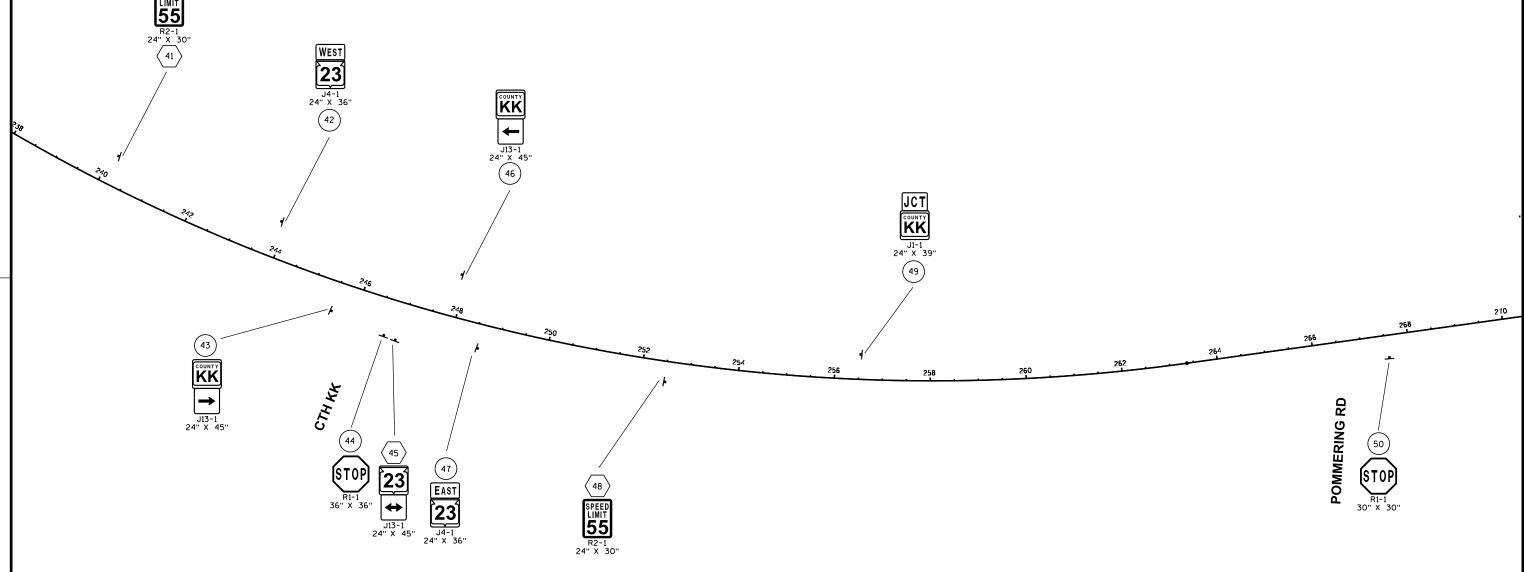
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SIGN-PLACE NEW

2

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1430-15-71 HWY:STH 23

COUNTY: FOND DU LAC

PERMANENT SIGNING

PLOT NAME :

PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

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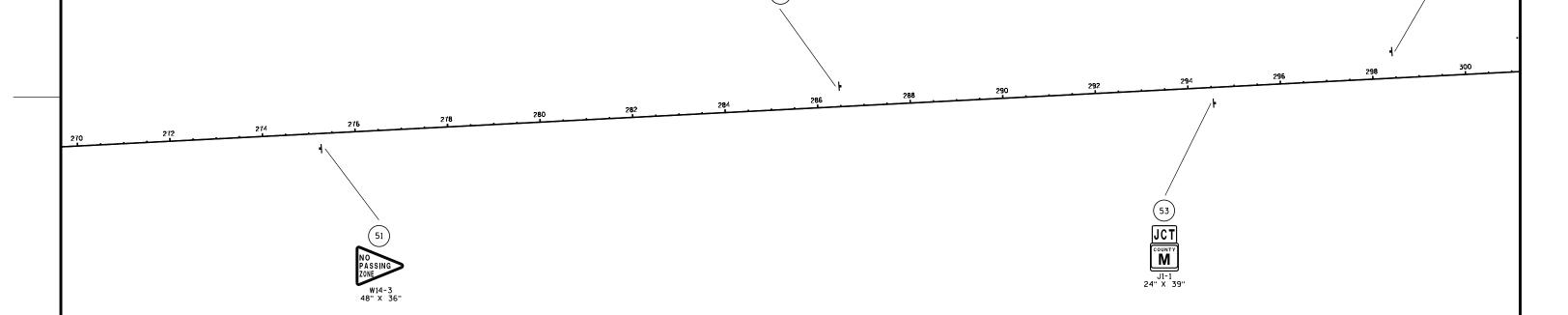
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PLOT DATE: 26-NOV-2013 16:54

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PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1430-15-71

HWY:STH 23

COUNTY: FOND DU LAC

PERMANENT SIGNING

PLOT BY: dotj1f

PLOT NAME :

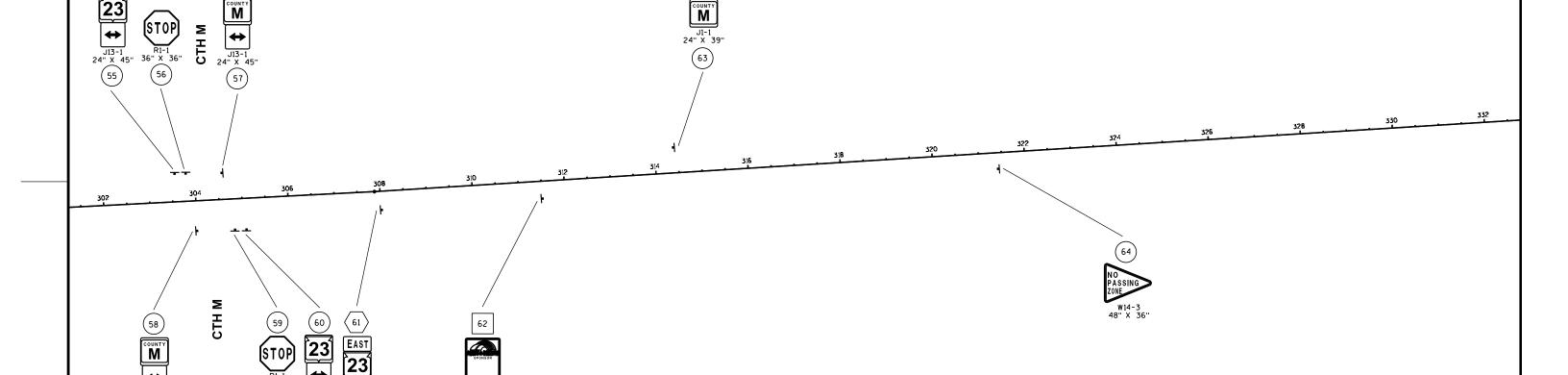
PLOT SCALE : 200:1

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PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1430-15-71

HWY: STH 23

COUNTY: FOND DU LAC

PERMANENT SIGNING

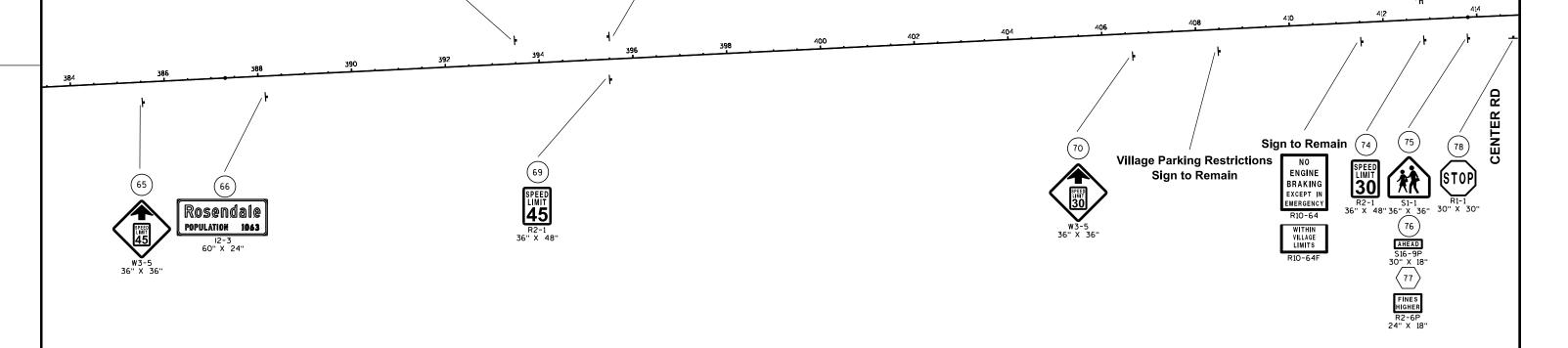
PLOT NAME :

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PROJECT NO: 1430-15-71

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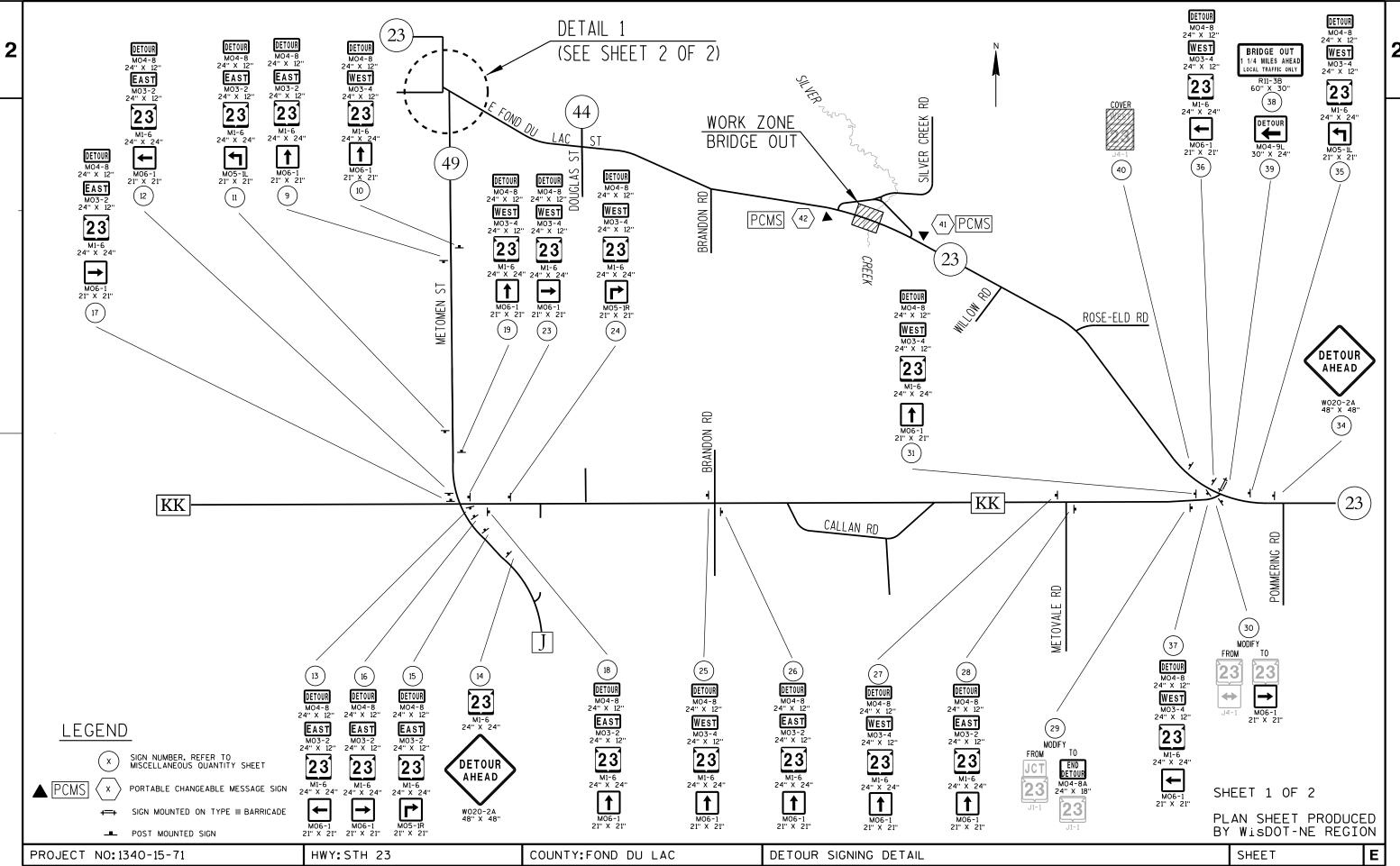
BY WisDOT-NE REGION

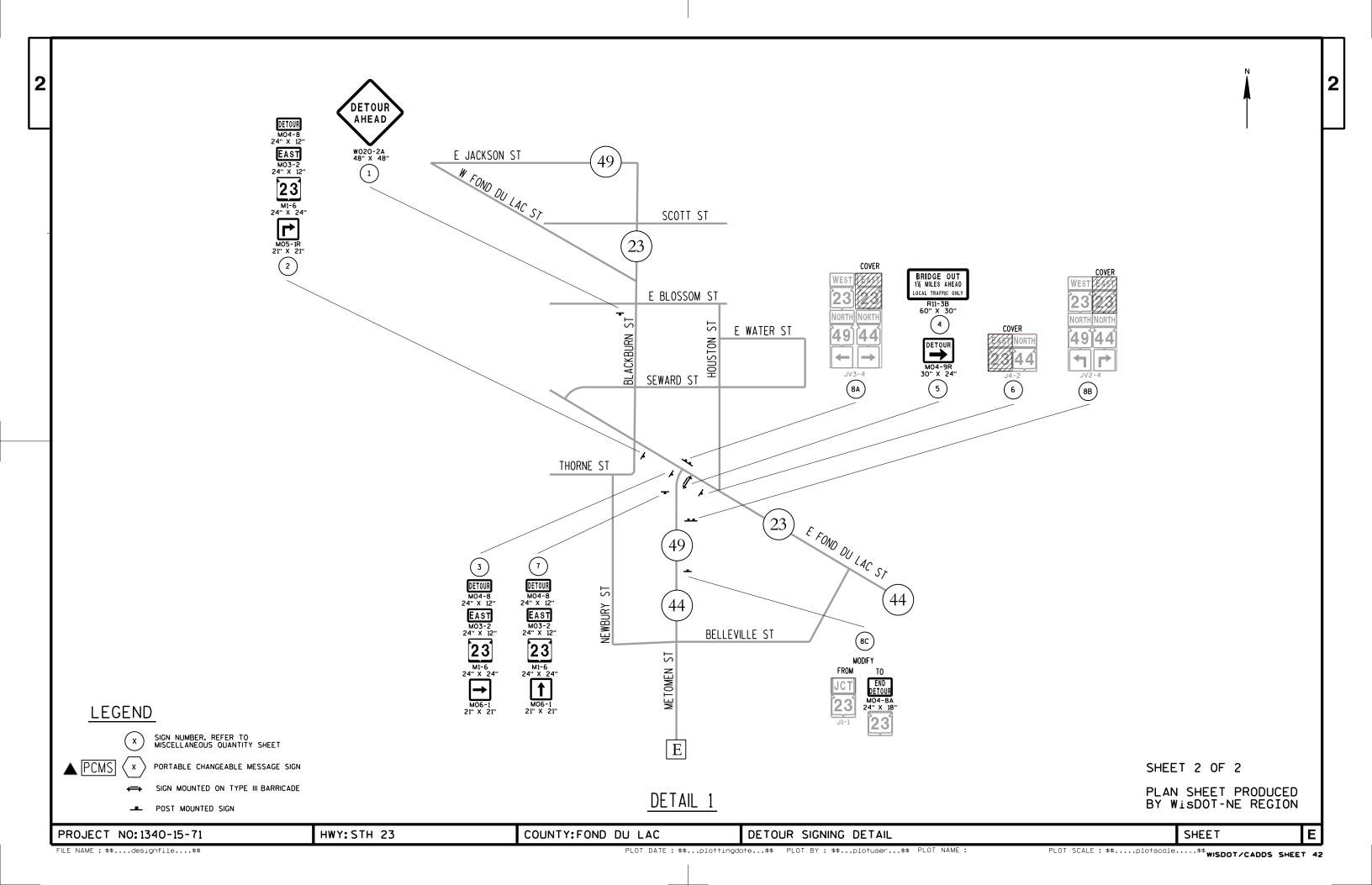
PROJECT NO: 1430-15-71

COUNTY: FOND DU LAC

PLOT NAME :

PERMANENT SIGNING





DATE 04	MAY15	E S	ГІМАТ	E O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	1430-15-71 QUANTI TY
0010	203. 0100	Removing Small Pipe Culverts	EACH	7. 000	7. 000
0020	203. 0600. S	Removing Old Structure Over Waterway	LS	1. 000	1. 000
0030	204. 0100	With Minimal Debris (station) 01. 108+81 Removing Pavement	SY	212. 000	212. 000
0040	204. 0115	Removing Asphaltic Surface Butt Joints	SY	85. 000	85. 000
0050	204.0120	Removing Asphaltic Surface Milling	SY	142, 310. 000	142, 310. 000
0060	204. 0155	Removing Concrete Sidewalk	SY LF	17. 000	17. 000
0070 0080	204. 0165 204. 0210	Removing Guardrail Removing Manholes	EACH	500. 000 2. 000	500. 000 2. 000
0090	204. 0210	Removing Inlets	EACH	1. 000	1. 000
0100	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	64.000	64.000
0110	205. 0100	Excavation Common	CY	2, 218. 000	2, 218. 000
0120	206. 2000	Excavation for Structures Culverts (structure) 01. B-20-0232	LS	1. 000	1. 000
0130	206. 5000	Cofferdams (structure) 01. B-20-0232	LS	1. 000	1. 000
0140	208. 1100	Select Borrow	CY	74. 000	74. 000
0150	209. 0100	Backfill Granular	CY	1, 440. 000	1, 440. 000
04/0	010 0100	Deale(III Charact	01/	250 222	050 000
0160	210. 0100	Backfill Structure  Propage Foundation for Asphaltic	CY	258. 000	258. 000
0170	211. 0400	Prepare Foundation for Asphaltic Shoulders	STA	94. 000	94. 000
0180	213. 0100	Finishing Roadway (project) 01.	EACH	1. 000	1. 000
3.00		1430-15-71		1. 550	1. 000
0190	305.0110	Base Aggregate Dense 3/4-Inch	TON	7, 635. 000	7, 635. 000
0200	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	2, 066. 000	2, 066. 000
0210	20E 0E00	Chaning Chaul dare		110 000	110 000
0210 0220	305. 0500 311. 0115	Shapi ng Shoul ders Breaker Run	STA CY	119. 000 202. 000	119. 000 202. 000
0220		S Incentive IRI Ride	DOL	31, 120. 000	31, 120. 000
0240	455. 0105	Asphaltic Material PG58-28	TON	2, 000. 000	2, 000. 000
0250	455. 0605	Tack Coat	GAL	17, 375. 000	17, 375. 000
02/0	4/0 4400	IIMA Daviement Time 5 2	TON	25 000 000	25 200 202
0260	460. 1103	HMA Pavement Type E-3	TON	35, 000. 000	35, 000. 000
0270 0280	460. 2000 460. 4000	Incentive Density HMA Pavement HMA Cold Weather Paving	DOL TON	22, 400. 000 5, 250. 000	22, 400. 000 5, 250. 000
0280		Reheating HMA Pavement Longitudinal	LF	41, 110. 000	41, 110. 000
32,0	100. 4110. 0	Joints		11, 110.000	11, 110.000
0300	465. 0120	Asphaltic Surface Driveways and Field	TON	400.000	400.000
		Entrances			
0210	465. 0125	Acabaltic Surface Temparani	TON	00.000	90,000
0310 0320	465. 0125 465. 0475	Asphaltic Surface Temporary Asphalt Center Line Rumble Strips	TON LF	80. 000 36, 100. 000	80. 000 36, 100. 000
0020	400.0470	2-Lane Rural	LI	30, 100.000	30, 100.000
0330	504.0100	Concrete Masonry Culverts	CY	240.000	240.000
0340	505.0410	Bar Steel Reinforcement HS Culverts	LB	28, 760. 000	28, 760. 000
0350	505. 0610	Bar Steel Reinforcement HS Coated	LB	3, 000. 000	3, 000. 000
		Cul verts			
0360	516. 0500	Rubberi zed Membrane Waterproofing	SY	82. 000	82. 000
0370	520. 8000	Concrete Collars for Pipe	EACH	3. 000	3. 000
0380	522. 0130	Cul vert Pipe Reinforced Concrete Class	LF	100.000	100. 000
		III 30-Inch			
0390	522. 0136	Culvert Pipe Reinforced Concrete Class	LF	373.000	373. 000
0.400	E22 0440	III 36-Inch		0/ 000	07.000
0400	522. 0142	Culvert Pipe Reinforced Concrete Class III 42-Inch	LF	96. 000	96. 000
		111 4Z-11ICII			
0410	522. 1030	Apron Endwalls for Culvert Pipe	EACH	2. 000	2. 000
-		Reinforced Concrete 30-Inch			
0420	522. 1036	Apron Endwalls for Culvert Pipe	EACH	8. 000	8. 000
		Reinforced Concrete 36-Inch			

DATE 04 LINE	MAY15	EST	IMAT	E OF QUAN	T I T I E S 1430-15-71
NUMBER 0430	I TEM 522. 1042	ITEM DESCRIPTION Apron Endwalls for Culvert Pipe	UNI T EACH	TOTAL 2. 000	QUANTI TY 2. 000
0440 0450	601. 0411 602. 0410	Reinforced Concrete 42-Inch Concrete Curb & Gutter 30-Inch Type D Concrete Sidewalk 5-Inch	LF SF	30. 000 150. 000	30. 000 150. 000
0460	602. 0505	Curb Ramp Detectable Warning Field	SF	24. 000	24. 000
0470 0480	606. 0100 608. 0312	Yellow Riprap Light Storm Sewer Pipe Reinforced Concrete	CY LF	103. 000 64. 000	103. 000 64. 000
0490	608. 0318	Class III 12-Inch Storm Sewer Pipe Reinforced Concrete	LF	16. 000	16. 000
0500	608. 0324	Class III 18-Inch Storm Sewer Pipe Reinforced Concrete	LF	8. 000	8. 000
0510	(11 0500	Class III 24-Inch	FACIL	2 202	
0510 0520	611. 0530 611. 0660	Manhole Covers Type J Inlet Covers Type WM	EACH EACH	2. 000 1. 000	2. 000 1. 000
0530	611. 2003	Manholes 3-FT Diameter Inlets 2x3-FT	EACH	2.000	2.000
0540 0550	611. 3230 611. 8120. S	Inlets 2x3-F1 S Cover Plates Temporary	EACH EACH	1. 000 2. 000	1. 000 2. 000
0560	614. 0010	Barrier System Grading Shaping Finishing	EACH LF	4. 000 75. 000	4. 000
0570 0580	614. 2300 614. 2340	MGS Guardrail 3 MGS Guardrail 3 L	LF LF	225. 000	75. 000 225. 000
0590	614. 2610	MGS Guardrail Terminal EAT	EACH	4. 000	4. 000
0600	619. 1000	Mobilization	EACH	1. 000	1.000
0610 0620	625. 0500 627. 0200	Sal vaged Topsoil Mulching	SY SY	2, 190. 000 1, 785. 000	2, 190. 000 1, 785. 000
0630	628. 1504	Silt Fence	LF	1, 080. 000	1, 080. 000
0640 0650	628. 1520 628. 1905	Silt Fence Maintenance Mobilizations Erosion Control	LF EACH	1, 080. 000 3. 000	1, 080. 000 3. 000
0660	628. 1903	Mobilizations Emergency Erosion Control	EACH	2. 000	2. 000
0660	628. 1910 628. 2004	Erosion Mat Class   Type B	SY	2. 000 65. 000	2. 000 65. 000
0680	628. 2008	Erosion Mat Urban Class I Type B	SY	560.000	560.000
0690 0700	628. 5505 628. 7015	Polyethylene Sheeting Inlet Protection Type C	SY EACH	345. 000 10. 000	345. 000 10. 000
0710	628. 7504	Temporary Ditch Checks	LF	224. 000	224. 000
0720	628. 7555	Culvert Pipe Checks	EACH	8. 000	8.000
0730 0740	629. 0210 630. 0120	Fertilizer Type B Seeding Mixture No. 20	CWT LB	1. 850 74. 500	1. 850 74. 500
0740	630. 0200	Seeding Temporary	LB	74. 500	74. 500
0760	633. 5200	Markers Cul vert End	EACH	18. 000	18.000
0770 0780	634. 0614 634. 0616	Posts Wood 4x6-Inch X 14-FT Posts Wood 4x6-Inch X 16-FT	EACH EACH	62. 000 24. 000	62. 000 24. 000
0790	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	3.000	3.000
0800	637. 2210	Signs Type II Reflective H	SF 	424. 490	424. 490
0810 0820	637. 2230 638. 2602	Signs Type II Reflective F Removing Signs Type II	SF EACH	193. 000 85. 000	193. 000 85. 000
0820	638. 3000	Removing Small Sign Supports	EACH	88. 000 88. 000	88. 000
0840	642. 5001	Field Office Type B	EACH	1. 000	1.000
0850	643. 0100	Traffic Control (project) 01. 1430-15-71	EACH	1. 000	1.000
0860 0870	643. 0420 643. 0705	Traffic Control Barricades Type III Traffic Control Warning Lights Type A	DAY DAY	118. 000 236. 000	118. 000 236. 000
0880	643.0920	Traffic Control Covering Signs Type II	EACH	4. 000	4.000
0890 0900	643. 1050 643. 2000	Traffic Control Signs PCMS Traffic Control Detour (project) 01.	DAY EACH	14. 000 1. 000	14. 000 1. 000
3700	J7J. 2000	1430-15-71	LAUII	1.000	1.000

DATE 04	MAY15	E S T	IMATE	OFQUAN		
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	1430-15-71 QUANTI TY	
0910	643. 3000	Traffic Control Detour Signs	DAY	6, 077. 000	6, 077. 000	
0920	645. 0105	Geotextile Fabric Type C	SY	465. 000	465. 000	
0930	646. 0126	Pavement Marking Epoxy 8-Inch	LF LF	2, 200. 000	2, 200. 000	
0940	646. 0406	Pavement Marking Same Day Epoxy 4-Inch	LF LF	41, 110. 000	41, 110. 000	
0950	040. 2304. 3	S Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	82, 160. 000	82, 160. 000	
		LPOXY 4-THEH				
0960	647. 0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	30.000	30.000	
0970	647. 0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	50.000	50.000	
0980	648. 0100	Locating No-Passing Zones	MI	7. 786	7. 786	
0990	649. 0100	Temporary Pavement Marking 4-Inch	LF	50, 000. 000	50, 000. 000	
1000	650. 6500	Construction Staking Structure Layout	LS	1. 000	1. 000	
		(structure) 01. B-20-0232				
1010	650. 8000	Construction Staking Resurfacing	LF	41, 110. 000	41, 110. 000	
		Reference		,	,	
1020	690. 0150	Sawing Asphalt	LF	440.000	440.000	
1030	690. 0250	Sawing Concrete	LF	520.000	520.000	
1040	715. 0502	Incentive Strength Concrete Structures	DOL	1, 440. 000	1, 440. 000	
1050	ASP. 1TOA	On-the-Job Training Apprentice at \$5.	HRS	2,000.000	2,000.000	
		00/HR				
1060	ASP. 1TOG	On-the-Job Training Graduate at \$5.00/HR	HRS	1, 320. 000	1, 320. 000	
1070	SPV. 0090	Special O1. MILLING AND REMOVING	LF	41, 110. 000	41, 110. 000	
1070	Ji V. 0070	TEMPORARY JOINT	LI	71, 110.000	<del>-</del> 1, 110.000	
1080	SPV. 0105	Special O1. TEMPORARY SAND BAG DIKE	LS	1. 000	1.000	
1090	SPV. 0195	Special O1. GRAVEL BED SUBSTRATE	TON	97.000	97.000	
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#### REMOVING SMALL PIPE CULVERTS REMOVING PAVEMENT 203.0100 204. 0100 STATI ON CATEGORY LOCATI ON **EACH** REMARKS LOCATI ON **CATEGORY** STATI ON SY REMARKS 0010 197+00 STH 23 30" CMCP 0010 90 + 99STH 23 33 FROST HEAVE REPAIR 0010 249+00 STH 23 30" CMCP STH 23 33 0010 192+00 FROST HEAVE REPAIR 0010 283+17 STH 23 30" CMCP 0010 197+00 STH 23 22 CULVERT PIPE REPLACEMENT 288+62 30" CMCP 0010 STH 23 0010 249+00 STH 23 26 CULVERT PIPE REPLACEMENT 30" CMCP 0010 404+11 STH 23 1 0010 283+17 STH 23 18 CULVERT PIPE REPLACEMENT 2 30" CMCP 0010 426+50 STH 23 0010 288+62STH 23 18 CULVERT PIPE REPLACEMENT 0010 404+11 STH 23 18 CULVERT PIPE REPLACEMENT 7 TOTAL 0010 0010 426+50 STH 23 38 CULVERT PIPE REPLACEMENT 6 0010 427 + 75STH 23, LT DRI VEWAY APPROACH REMOVING ASPHALTIC SURFACE BUTT JOINTS TOTAL 0010 212 204. 0115 CATEGORY STATI ON LOCATI ON SY REMARKS REMOVING ASPHALTIC SURFACE MILLING 0010 22+00 STH 23 6 BEGIN PROJECT 0010 BRANDON RD 6 204. 0120 0010 SILVER CREEK RD WEST 5 **CATEGORY** STATION TO STATION LOCATI ON SY 0010 SILVER CREEK RD EAST 5 0010 WI LLOW RD 5 109627 0010 22+00 - 433+10 STH 23, MAINLINE 0010 22+00 - 33+50 LT SHOULDER 384 0010 WI TTCHOW RD 5 0010 33+50 - 413+89 RT & LT SHOULDER 25360 0010 ROSE-ELD RD 0010 413+89 - 426+50 RT SHOULDER 421 0010 CTH KK 413+89 - 426+50 1682 0010 BYPASS LANE 0010 POMMERING RD 0010 CTH M NORTH 0010 I NTERSECTI ONS 1734 2222 UNDI STRI BUTED 0010 0010 CTH M SOUTH 0010 CENTER RD 141430 TOTAL 0010 0010 GRANT ST NORTH GRANT ST SOUTH 0010 5 433+10 STH 23 9 END PROJECT 0010 0030 PARKING LANES 880 426+50 - 433+10 TOTAL 0010 85 TOTAL 0030 880 REMOVING CONCRETE SIDEWALK REMOVING GUARDRAIL 204. 0155 **CATEGORY** STATI ON LOCATI ON SY REMARKS 204. 0165 **CATEGORY** STATION TO STATION LOCATI ON LF 0010 427+30 GRANT ST 6 NE CURB RAMP 0010 427+30 GRANT ST 6 SE CURB RAMP 106+91 - 109+79 250 0010 STH 23, RT 0010 426+90 GRANT ST 5 SW CURB RAMP STH 23, LT 0010 107+63 - 110+14 250 17 TOTAL 0010 500 TOTAL 0010 PROJECT NO: 1430-15-71 HWY: STH 23 COUNTY: Fond du Lac MISCELLANEOUS QUANTITIES SHEET:

CATEGORY	STATI ON LOCATI ON	204. 0210 EACH	RI	EMARKS	CATEGO	DRY STATION	204. LOCATI ON	. 0220 EACH R	EMARKS
0010 0010	427+00 STH 23 428+20 STH 23	1		REPLACE (MH-1) REPLACE (MH-2)	0010	) 428+90	STH 23 LT	1 REMOVE AND	REPLACE (I-1)
		TOTAL 0010 2					TOTAL 0010	1	
		REMOVING STORM SEWER (S	IZE)						
			204. 0245			EXCAVAT	TI ON COMMON		
CATEGORY	STATION TO STATION	LOCATI ON	LF	REMARKS	<u>_</u>			205. 0100	
0010	428+15 - 428+90	STH 23	64	12-INCH MH-2 TO I-1	CATEGORY	STATION TO STATIO	ON LOCATI ON	203. 0100 CY	REMARKS
		TOTAL 0010	64		0010 0010 0010	90+99 192+00 107+12 - 110+58	STH 23 STH 23 STH 23	37 37 2144	FROST HEAVE REPAIR FROST HEAVE REPAIR SHOULDERS LT/RT**
	SELECT B	<u>ORROW</u>					TOTAL (	0010 2218	
CATEGORY	STATI ON LOCATI ON	208. 1100 CY	RE	EMARKS	**Note: This	quantity is from the	Earthwork MQ sheet loca	ted at the end of	the MQ sheets
0010 0010	90+99 STH 23 192+00 STH 23	37 37	FROST HEAVE			<u>PREPARE</u>	FOUNDATION FOR ASPHALTI	C SHOULDERS	
		TOTAL 0010 74							
	BASE AGGREG	ATE DENSE 3/4-INCH			CATEGORY	STATION TO STATION	N LOCATI ON	211. 0400 STA	REMARKS
			305. 0110		0010 0010	22+00 - 61+50 33+50 - 61+50	STH 23 STH 23	40 28	SHOULDERS, LT SHOULDERS, RT
CATEGORY	STATION TO STATION	LOCATI ON	TON	REMARKS	0010	413+81 - 426+50	STH 23	<u> </u>	SHOULDERS, RT/LT
0010 0010 0010	22+00 - 33+50 33+50 - 61+50 61+50 - 413+89	STH 23 LT STH 23 RT & LT STH 23 RT & LT	75 364 6409	SHOULDERS SHOULDERS SHOULDERS			TOTAL O	010 94	
0010 0010	107+12 - 110+58 413+89 - 426+50	STH 23 RT & LT STH 23 RT & LT	64 164	SHOULDERS SHOULDERS			SHAPING SHOULDER	<u>2S</u>	
0010 0010		DRI VEWAYS UNDI STRI BUTED	195 364		CATEGORY	STATION TO STATION	N LOCATI ON	305. 0500 STA	REMARKS
	BASE AGGREG	TOTAL 0010 ATE DENSE 1 1/4-INCH	7635		0010 0010 0010 0010	33+50 - 40+00 60+00 - 68+00 85+00 - 130+00 171+00 - 190+00	STH 23 STH 23 STH 23 STH 23	7 8 45 19	SUPERELEVATI ON SUPERELEVATI ON SUPERELEVATI ON SUPERELEVATI ON
CATEGORY	STATION TO STATION	LOCATI ON	305. 0120 TON	REMARKS	0010	226+00 - 265+50	STH 23	40	SUPERELEVATI ON
0010	107+12 - 110+58	STH 23	2066	MAI NLI NE			TOTAL O	010 119	
0010	107:12 - 110730	TOTAL 0010	2066	WEST SELL INF					
PROJECT NO: 1	430- 15- 71	HWY: STH 23	Co	OUNTY: Fond du Lac	IMIS	CELLANEOUS QUANTITI	ES		SHEET:

FILE NAME: N:\PDS\...\030200\_mq.pptx

REMOVING MANHOLES

PLOT DATE: June 14, 1911

PLOT BY: A.R.H.

PLOT NAME :

REMOVING INLETS

PLOT SCALE: 1:1

# 3

ASPHALTI C MATERI AL PG58-28

	ASTIIALITE WATE	EM AL 1 030- 20							
			455. 0105		CATEGORY	STATION TO STATION	LOCATI ON	455. 0605 GAL	REMARKS
CATEGORY	STATION TO STATION	LOCATI ON	TON	REMARKS					
<u>OTTEGOWT</u>	Similar to Similar	Doon on	1011	IVENI IIVIIO	0010	22+00 - 33+50	STH 23	223	
0010	22+00 - 33+50	STH 23	21		0010	33+50 - 61+50	STH 23	1270	
0010	33+50 - 61+50	STH 23	128		0010	61+50 - 413+89	STH 23	14096	
0010	61+50 - 413+89	STH 23	1422		0010	413+89 - 426+50	STH 23	774	
0010	413+89 - 426+50	STH 23	70		0010	426+50 - 433+10	STH 23	176	
0010	426+50 - 433+10	STH 23	10						
					0010	107+12 - 110+58	STH 23	111	MAI NLI NE
0010	107+12 - 110+58	STH 23	19	MAI NLI NE	0010	107+12 - 110+58	STH 23	44	SHOULDERS LT
0010	107+12 - 110+58	STH 23	8	SHOULDERS LT	0010	107+12 - 110+58	STH 23	44	SHOULDERS RT
0010	107+12 - 110+58	STH 23	8	SHOULDERS RT	0010		I NTERSECTI ONS	84	
0010		I NTERSECTI ONS	234		0010		UNDI STRI BUTED	500	
0010		UNDI STRI BUTED	70						
							TOTAL 0010	17322	
		TOTAL 0010	1990						
					0030	426+50 - 433+10	PARKING LANES	53	
0030	426+50 - 433+10	PARKING LANES	10						
		<u> </u>					T0TAL 0030	53	
		T0TAL 0030	10						

#### HMA PAVEMENT TYPE E-3

CATEGORY	STATION TO STATION	LOCATI ON	460. 1103 TON	REMARKS
0010	22+00 - 33+50	STH 23	380	
0010	33+50 - 61+50	STH 23	2328	
0010	61+50 - 413+89	STH 23	25842	
0010	413+89 - 426+50	STH 23	1264	
0010	426+50 - 433+10	STH 23	205	
0010	107+12 - 110+58	STH 23	332	MAI NLI NE
0010	107+12 - 110+58	STH 23	130	SHOULDERS LT
0010	107+12 - 110+58	STH 23	130	SHOULDERS RT
0010		I NTERSECTI ONS	3144	
0010		UNDI STRI BUTED	1095	
		TOTAL (	0010 34850	
0030	426+50 -	433+10 PARKING LANES	150	
		TOTAL (	0030 150	

### HMA COLD WEATHER PAVING

			460. 4000		
CATEGORY	STATION TO STATION	LOCATI ON	TON	REMARKS	
0010	22+00 - 433+10	STH 23	5250	UNDI STRI BUTED	
0010	22+00 - 435+10	SIN 23	3230	UNDISTRIBUTED	
		TOTAL 001	0 5250		

TACK COAT

#### REHEATING HMA LONGITUDINAL JOINTS

			460. 4110. S		
CATEGORY	STATION TO STATION	LOCATI ON	LF	REMARKS	
0010	22+00 - 433+10	STH 23	41110	CENTER LINE	
		TOTAL O	0010 41110		

#### ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

			465. 0120	
CATEGORY	STATION TO STATION	LOCATI ON	TON	REMARKS
0010	22+00 - 433+10	UNDI STRI BUTED	400	
		TOTAL 0010	400	

PROJECT NO: 1430-15-71 HWY: STH 23 COUNTY: Fond du Lac MISCELLANEOUS QUANTITIES SHEET: E

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#### ASPHALTIC SURFACE TEMPORARY

#### ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL

CATEGORY	STATI ON	LOCATI ON	465. 0125 TOI		STATION TO STATION LOCATION	465. 0475 N LF	REMARKS
0010 0010 0010 0010 0010	90+99 192+00 197+00 249+00 283+17	STH 23 STH 23 STH 23 STH 23 STH 23	10 10 10 10 10	FROST HEAVE REPAIR CULVERT PIPE REPLACEMENT CULVERT PIPE REPLACEMENT	33+50 - 61+00 STH 23 63+00 - 99+75 STH 23 101+75 - 123+25 STH 23 125+25 - 181+00 STH 23 183+00 - 246+50 STH 23	3750 3675 2150 5575 6350	
0010 0010 0010	288+62 404+11 426+50	STH 23 STH 23 STH 23	0010	CULVERT PIPE REPLACEMENT CULVERT PIPE REPLACEMENT	250+00 - 306+00 STH 23 310+00 400+00 STH 23	5600 9000 TOTAL 0010 36100	

## 522-CULVERTS

			522. 0130	522. 0136	522. 0142	522. 1030	<b>522</b> . 1036	522. 1042	
			CPRC	CPRC	CPRC	AEW	AEW	AEW	
			CLASS III	CLASS III	CLASS III	FOR CPRC	FOR CPRC	FOR CPRC	
			30- I NCH	36- I NCH	42- I NCH	30- I NCH	36- I NCH	42- I NCH	
CATEGORY	STATI ON	LOCATI ON	LF	LF	<u>LF</u>	<b>EACH</b>	<b>EACH</b>	<b>EACH</b>	REMARKS
0010	197+00	STH 23	100			2			30" CPRC
0010	249+00	STH 23		117			2		36" CPRC
0010	283+17	STH 23		84			2		36" CPRC
0010	288+62	STH 23		86			2		36" CPRC
0010	404+11	STH 23		86			2		36" CPRC
0010	426+50	STH 23			96			2	42" CPRC
		TOTAL 0010	100	373	96	2	8	2	

PROJECT NO: 1430-15-71 HWY: STH 23 COUNTY: Fond du Lac MISCELLANEOUS QUANTITIES SHEET: E

## CONCRETE SIDEWALK 5-INCH

RI PRAP LI GHT

			601. 0411				602. 0410	
CATEGORY	STATION TO STATION	LOCATI ON	LF	REMARKS	<u>CATEGORY</u>	LOCATI ON	SF	REMARKS
0010 0010	427+60 - 427+75 427+90 - 428+05	STH 23 LT STH 23 RT	15 15	VILLAGE OF ROSENDALE VILLAGE OF ROSENDALE	0010 0010 0010	NEC GRANT ST SEC GRANT ST SWC GRANT ST	50 50 50	VILLAGE OF ROSENDALE VILLAGE OF ROSENDALE VILLAGE OF ROSENDALE
		TOTAL 0010	30			T0TAL 0010	150	

#### CURB RAMP DETECTABLE WARNING FIELD YELLOW

24

TOTAL 0010

CONCRETE CURB & GUTTER 30-INCH TYPE D

EGORY	LOCATI ON	602. 0505 SF	REMARKS	CATTEGORY	CTLATT ON	LOGATIVON	606. 0100	
				<u>CATEGORY</u>	STATI ON	LOCATI ON	CY	
	NEC GRANT ST	8	VILLAGE OF ROSENDALE	0010	100 71	CITIL OO DIE /LE	100	,
0010	SEC GRANT ST	8	VILLAGE OF ROSENDALE	0010	108+71	STH 23 RT/LT	103	
0010	SWC GRANT ST	8	VILLAGE OF ROSENDALE					
						TOTAL 0010	103	

						611-STORM					MANHOLE	I NLET		CONCRETE	STORM SEWER	STORM SEWER	STORM SEWER
									MANHOLES	INLETS	COVERS	COVERS	COVER PLATE	COLLARS FOR	RC CLASS III	RC CLASS III	RC CLASS III
									3-FT DIAM	2X3-FT	TYPE J	TYPE WM	TEMPORARY	PI PE	12- I NCH	18- I NCH	24- I NCH
					FLOW LINE	DEPTH TO			611. 2003	611. 3230	611. 0530	611.0660	611. 8120. S	520. 8000	608. 0312	608. 0318	608. 0324
CATEGORY	NO	STATI ON	TO STATION	RIM ELEV	ELEV	FLOW LINE (FT)	LOCATI ON		EACH	EACH	EACH	EACH	EACH		LF		LF
0010	MH- 1	427+00		905.09	900. (	09 5. 00	STH 23		1		1		1	2		8	
0010	MH-2	428+20		904. 41	901.	29 3. 12	STH 23		1		1		1	1		8	8
0010	I - 1	428+90		903. 91	901.	96 1.95				1		1					
0010		428+20	- 428+90												64		
															. <u> </u>		
								TOTAL 0010	2	1	2	1	2	3	64	16	8

HWY: STH 23 PROJECT NO: 1430-15-71 COUNTY: Fond du Lac SHEET: Ε MISCELLANEOUS QUANTITIES

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#### BARRIER SYSTEM GRADING SHAPING FINISHING

#### POLYETHYLENE SHEETING

								628. 5505	
			614. 0010		CATEGORY	STATI ON	LOCATI ON	SY	REMARKS
CATEGORY	STATION TO STATION	LOCATI ON	EACH	REMARKS	 0010	108+71	STH 23 RT/LT	345	TEMP BYPASS STAGE 1
							<b>_</b>		<del></del>
0010	108+00 - 109+50	STH 23 RT	2			P	ROJECT TOTALS =	345	
0010	108+19 - 109+70	STH 23 LT	2						
					NOTE: SA	AND BAGS U	ISED TO SECURE LI	NER ARE IN	CIDENTAL TO THIS ITEM.

TOTAL 0010

BEAMGUARD SUMMARY

#### INLET PROTECTION TYPE C

CATEGORY	STATI ON	то	STATI ON	LOCATI ON	MGS GUARDRAIL 3 614.2300 LF	MGS GUARDRAIL 3 L 614.2340 LF	MGS GUARDRAIL TERMINAL EAT 614. 2610 EACH	REMARKS	CATEGORY TO	STATI ON	LOCATI ON	628. 7015 EACH
0010	108+00	-	109+50	STH 23 RT	37. 5	112. 5	2	MAINLINE RT	0010	PROJECT	STH 23	10
0010	108+19	-	109+70 PROJ	STH 23 LT JECT TOTALS =	75. 0	112. 5 225. 0	4	MAINLINE LT			TOTAL 0010	10

#### 628- EROSI ON

			625. 0500	627. 0200	628. 1504	628. 1520	628. 1905	628. 1910	628. 2004	628. 2008	628. 7555	629. 0210	630. 0120	630. 0200	
			SALVAGED	MULCHI NG	SILT	SILT	MOBI LI Z	EMERG MOB E	ROSION MAT	EROSI ON MAT	CULVERT	FERTI LI ZER	SEED	TEMP	
			TOPSOI L		FENCE	FENCE	EROSI ON	EROSI ON	CLASS I	URBAN CLASS I	PIPE	TYPE B	MI XTURE	SEED	
					N	AI NTENANCE	CONTROL	CONTROL	TYPE B	TYPE B	CHECKS		NO. 20		
CATEGORY	STATION TO STATION	LOCATI ON	SY	SY	LF	LF	EACH	EACH	SY	SY	EACH	СШТ	LB	LB	REMARKS
0010	90+99		20	20	40	40			5		1	0. 02	0. 5	0. 5	FROST HEAVE REPAIR
0010	107+00 - 108+62	STH 23 RT	20	20	165	165			ŭ		-	0.02	0.0	0.0	THOST MENTE WELLIN
0010	107+02 - 108+67	STH 23 LT			170	170									
0010	109+03 - 110+63	STH 23 RT			165	165									
0010	109+10 - 110+61	STH 23 LT			160	160									
0010	100110 110101	SIN 25 EI			100	100									
0010	107+12 - 108+74	STH 23 RT	460	350						115		0.40	16. 0	16. 0	
0010	107+12 - 108+74	STH 23 LT	505	385						200		0.40	17. 0	17. 0	
0010	108+96 - 110+58	STH 23 RT	415	350						65		0. 35	14. 5	14. 5	
0010	108+96 - 110+58	STH 23 LT	515	450						125		0. 40	17. 5	17. 5	
0010	192+00		20	20	40	40			5		1	0. 02	0. 7	0. 7	FROST HEAVE REPAIR
0010	197+00		25	20	40	40			10		1	0. 02	0. 7	0. 7	CULVERT PIPE REPLACEMENT
0010	249+00		25 25	20	40	40			10		1	0. 02	0. 7	0. 7	CULVERT FIFE REPLACEMENT
					40						1				CULVERT PIPE REPLACEMENT
0010	283+17		25	20		40			10		1	0. 02	0. 7	0.7	
0010	288+62		25	20	40	40			10		1	0. 02	0. 7	0. 7	CULVERT PIPE REPLACEMENT
0010	404+11		25	20	40	40			10		1	0. 02	0. 7	0. 7	CULVERT PIPE REPLACEMENT
0010	426+50		25	25	40	40			5	55	1	0. 03	0.8	0.8	CULVERT PIPE REPLACEMENT
0010	UNDI STRI BUTED		105	85	100	100						0. 13	4. 0	4. 0	
0010	PROJECT						3	2							
0010															
0010															
		TOTAL 0010	2190	1785	1080	1080	3	2	65	560	8	1. 85	74. 5	74. 5	

PROJECT NO: 1430-15-71 HWY: STH 23	COUNTY: Fond du Lac	MISCELLANEOUS QUANTITIES	SHEET: E	E
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## TEMPORARY DITCH CHECKS

					628. 7504	
CATEGORY	STATION TO	STATI ON	LOCATI O	N	LF	REMARKS
0010	90+99		STH 23		16	FROST HEAVE REPAIR
0010	108+35		STH 23	RT	16	
0010	108+35		STH 23	LT	16	
0010	109+35		STH 23	RT	16	
0010	109+35		STH 23	LT	16	
0010	192+00		STH 23		16	FROST HEAVE REPAIR
0010	197+00		STH 23		16	CULVERT PIPE REPLACEMENT
0010	249+00		STH 23		16	CULVERT PIPE REPLACEMENT
0010	283+17		STH 23		16	CULVERT PIPE REPLACEMENT
0010	288+62		STH 23		16	CULVERT PIPE REPLACEMENT
0010	404+11		STH 23		16	CULVERT PIPE REPLACEMENT
0010	426+50		STH 23		16	CULVERT PIPE REPLACEMENT
0010		UNDI STRI BUTED			32	
				T0TAL 0010	224	

## MARKERS CULVERT END

			633. 5200	
CATEGORY	STATION TO STATION	LOCATI ON	EACH	REMARKS
0010	90+99	STH 23	2	FROST HEAVE REPAIR
0010	108+85	STH 23	2	B- 20- 0232
0010	192+00	STH 23	2	FROST HEAVE REPAIR
0010	197+00	STH 23	2	CULVERT PIPE REPLACEMENT
0010	249+00	STH 23	2	CULVERT PIPE REPLACEMENT
0010	283+17	STH 23	2	CULVERT PIPE REPLACEMENT
0010	288+62	STH 23	2	CULVERT PIPE REPLACEMENT
0010	404+11	STH 23	2	CULVERT PIPE REPLACEMENT
0010	426+50	STH 23	2	CULVERT PIPE REPLACEMENT
		TOTAL 0010	) 18	
		TOTAL OUT	) 10	

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#### REMOVE AND REPLACE OF TYPE II SIGNS AND SUPPORTS

						1	1	1			
				637. 2210	637. 2230				638. 2602		
				SI GNS	SI GNS	POSTS	POSTS	POSTS		REMOVI NG	
				TYPE II	TYPE II	WOOD	WOOD	WOOD		SMALL SIGN	
SI GN		SI GN			REFLECTIVE F		4x6x16	4x6x18	TYPE II	SUPPORTS	
NO.	LOCATI ON	CODE	WXH	S. F.	S. F.	EACH	EACH	EACH	EACH	EACH	REMARKS
1	STH 23, E. OF DOUGLAS ST/STH 44	J3-1	24" X 57"	9. 50			1		1	1	NORTH STH 44, SEE PLAN SHEET
2	п	J4-1	24" X 36"	6. 00		1					EAST STH 23
3	п	J4-1							1	1	EAST STH 23
4	п	D2-1	72" X 15"	7. 50		2				2	ROSENDALE 8, SEE SIGN DETAIL SHEET, PART OF REMOVAL FOR SIGN #3
5	п	R2-1	24" X 30"	5. 00		1			1	1	35 MPH
6	п	J3-1	24" X 57"	9. 50			1		1	1	NORTH STH 44, SEE PLAN SHEET
7	п	R59-51	36" X 36"	9. 00		1			1	1	
8	п	R2-1	24" X 30"	5. 00		1			1	1	35 MPH
9	п	W14-3	48" X 36"		6. 00	1			1	1	MOUNT ON BACK OF SLGN #10
10	п	R2-1	24" X 30"	5. 00		1					35 MPH, PART OF REMOVAL FOR SIGN #9
11	п	J2-2	48" X 57"	19. 00			1		1	1	SOUTH STH 44, NORTH STH 44, SEE PLAN SHEET
12	u	J1-1	24" X 39"	6. 50		1			1	1	JCT STH 44
13	u	I 55-56							1	1	PHI KAPPA PI MERRIMAN
14	u	R2-1	24" X 30"	5. 00		1			1	1	55 MPH
15	u	R2-1	36" X 48"	12. 00			1		1	1	35 MPH
16	п	J1-1							1	1	
17	STH 23, E. OF DOUGLAS ST/STH 44	R2-5A							1	1	ALSO REMOVE W13-1
18	п	W3-5	36" X 36"		9. 00		1				
19	п	W14-3	48" X 36"		6. 00	1			1	1	
20	п	W14-3	48" X 36"		6. 00	1			1	1	
21	BRANDON RD	R1-1	30" X 30"	5. 18		1			1	1	
22	п	R1-1	30" X 30"	5. 18		1			1	1	
23	STH 23, E. OF BRANDON RD	W14-3	48" X 36"		6. 00	1			1	1	
24	п	W14-3	48" X 36"		6. 00	1			1	1	
25	SILVER CREEK RD	R1-1	30" X 30"	5. 18		1			1	1	
26	STH 23, E. OF SILVER CREEK RD	I 3-1	72" X 15"	7. 50		2			1	1	SILVER CREEK
27	п	I 3-1	72" X 15"	7. 50		2			1	1	SILVER CREEK
28	п	W14-3	48" X 36"		6. 00	1			1	1	
29	SILVER CREEK RD	R1-1	30" X 30"	5. 18		1			1	1	
30	STH 23, E. OF SILVER CREEK RD	W14-3	48" X 36"		6. 00	1			1	1	
31	WI LLOW RD	R1-1	30" X 30"	5. 18		1			1	1	
32	STH 23, E. OF WILLOW RD	W14-3	48" X 36"		6. 00	1			1	1	
33	п	W14-3	48" X 36"		6. 00	1			1	1	
34	п	I 55-56							1	1	PHI KAPPA PI MERRIMAN
35	WI TTCHOW RD	R1-1	30" X 30"	5. 18		1			1	1	
36	STH 23, BETWEEN WITTCHOW & ROSE-ELD RD	I 55-56							1	1	PHI SIGMA KAPPA
37	ROSE-ELD RD	R1-1	30" X 30"	5. 18		1			1	1	
38	STH 23, E. OF ROSE-ELD RD	W14-3	48" X 36"		6. 00	1			1	1	
39	"	W14-3	48" X 36"		6. 00	1			1	1	
	PAGE SUBTOTALS			150. 26	75. 00	31	5	0	35	37	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PROJECT NUMBER: 1430-15-71 HWY: STH 23 COUNTY: FOND DU LAC MISCELLANEOUS QUANTITIES SHEET **E** 

#### REMOVE AND REPLACE OF TYPE II SIGNS AND SUPPORTS

Sign	<b>-</b>					/ 27 2210	/27 2220	(04.0(44	(04.0/4/	1,04,0440	(00,000	/00 0000	
SIGN   NO.   LADATION   SIGN   SIGN   STREET   TYPE II   ADDIT   ADDIT   ASSAULT   A													
STOR	Ш												
Mo.   LOCATION   COOK   W X H   S F   S F   EACH   EACH	3												
40													P=111P1/2
1	╟										1		
42	╟										'	1	
43	٦ŀ	1						<u>'</u>					
44	╟							'			•	· · ·	
46	╟								1		<b>'</b>	' '	CTH KK, SEE PLAN SHEET
46	H							1			1	1	
48	ŀ		<u>"</u>						1			<del> </del>	
48	H		STH 23, E. OF CTH KK						1		· ·	<del>' +</del>	
10   1   24   X   30   6.50       1     1   1   1   1	╟		п					1			1	1	
A9	╟							1					
STH 23, E. OF POMICRING RD	╟	1							1		1	1	JCT CTH KK
S2	I					5. 18		1				<u> </u>	
S3	I		,					1			1	1	
53	I					+	6.00	1			1	1	
13-1   13-30	Ш				24" X 39"	6. 50		1			1	1	
S56	IL							1			1	1	
STH 23, E. OF CTH M	Ц	55				7. 50			1		1	1	STH 23, SEE PLAN SHEET
S8		56	п	R1-1		7. 46		1			1	1	
STH 23, E OF CTH M	Ш	57	STH 23, E. OF CTH M	J13-1	24" X 45"	7. 50			1		1	1	CTH M, SEE PLAN SHEET
60	Ш	58	STH 23, W. OF CTH M	J13-1	24" X 45"	7. 50			1		1	1	CTH M, SEE PLAN SHEET
60 STH 23, E. OF CTH M	Ш	59	CTH M	R1-1	36" X 36"	7. 46		1			1	1	
62	Ш	60	п	J13-1	24" X 45"	7. 50			1		1	1	STH 23, SEE PLAN SHEET
63 " J1-1 24" X 39" 6.50 1 1 1 1 JCT CTH M  64 " W14-3 48" X 36" 6.00 1 1 1 1  65 " W3-5 36" X 36" 9.00 1 1 1 1  66 " I2-3 60" X 24" 10.00 1 1 1 1  67 " W14-3 48" X 36" 6.00 1 1 1 1  68 " W14-3 48" X 36" 6.00 1 1 1 1  68 " W14-3 48" X 36" 6.00 1 1 1 1  68 " R2-1 24" X 30" 5.00 1 1 1 1  69 " R2-1 36" X 48" 12.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ш	61	STH 23, E. OF CTH M	J4-1	24" X 36"	6. 00		1					EAST STH 23
64 " W14-3 48" X 36" 6.00 1 1 1 1 1 45 MPH 65 " W3-5 36" X 36" 9.00 1 1 1 1 1 45 MPH 66 " 12-3 60" X 24" 10.00 1 1 1 1 1 67 " W14-3 48" X 30" 5.00 1 1 1 1 1 68 " W14-3 48" X 30" 5.00 1 1 1 1 1 1 55 MPH 69 " R2-1 24" X 30" 5.00 1 1 1 1 1 1 55 MPH 69 " R2-1 36" X 48" 12.00 1 1 1 1 1 1 45 MPH 70 STH 23, W. OF CENTER RD W3-5 36" X 48" 12.00 1 1 1 1 1 30 MPH 71 " R2-1 36" X 48" 12.00 1 1 1 1 1 30 MPH 72 " R2-1 36" X 48" 12.00 1 1 1 1 1 1 30 MPH 73 " R2-1 36" X 48" 12.00 1 1 1 1 1 45 MPH, PART OF REMOVAL FOR SIGN #71 73 " S5-2 24" X 30" 5.00 1 1 1 1 1 1 30 MPH 75 " R2-1 36" X 48" 12.00 1 1 1 1 30 MPH 75 " S16-9P 30" X 18" 12.00 1 1 1 1 1 30 MPH 76 " S16-9P 30" X 18" 12.00 1 1 1 1 1 30 MPH 77 " R2-6P 24" X 18" 3.00 1 1 1 1 1 30 MPH 78 CENTER RD R1-1 30" X 30" 5.18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ш	62	п	I 55-56	30" X 36"	7. 50		1			1	1	ROSENDALE-BRANDON TEACHERS
64   W14-5   46   X 36"     5.00   1     1   1   45 MPH   66   "	Ш	63	п	J1-1	24" X 39"	6. 50		1			1	1	JCT CTH M
12-3   60"   X   24"   10.00     1       1   1   1		64	п	W14-3	48" X 36"		6. 00	1			1	1	
67 " W14-3 48" X 36" 6.00 1 1 1 1 1 55 MPH 68 " R2-1 24" X 30" 5.00 1 1 1 1 1 1 55 MPH 69 " R2-1 36" X 48" 12.00 1 1 1 1 1 1 45 MPH 70 STH 23, W. OF CENTER RD W3-5 36" X 36" 9.00 1 1 1 1 30 MPH 71 " R2-1 36" X 48" 12.00 1 1 1 1 1 30 MPH 72 " R2-1 36" X 48" 12.00 1 1 1 1 1 30 MPH 73 " R2-1 36" X 48" 12.00 1 1 1 1 1 30 MPH 74 " R2-1 36" X 48" 12.00 1 1 1 1 1 30 MPH 75 " S5-2 24" X 30" 5.00 1 1 1 1 30 MOUNT BELOW SI GN #72 74 " R2-1 36" X 48" 12.00 1 1 1 1 1 30 MPH 75 " S16-9P 30" X 18" 6.75 1 1 1 1 30 MOUNT BELOW SI GN #75, PART OF REMOVAL FOR SI GN #75 76 " S16-9P 30" X 18" 3.00 3.75 1 1 1 1 78 CENTER RD R1-1 30" X 30" 5.18 1 1 1 1 1		65	п	W3-5	36" X 36"		9. 00		1		1	1	45 MPH
67   MI4-3 48 K 36   6.00 1   1   1   1   55 MPH   69   " R2-1 24" X 30" 5.00   1 1   1 1   1   1   45 MPH   69   " R2-1 36" X 48" 12.00   1 1   1 1   1   30 MPH   70   STH 23, W. OF CENTER RD   W3-5 36" X 36"   9.00   1   1 1   1   30 MPH   71   " R2-1 36" X 48" 12.00     1 1   1 1   1   30 MPH   72   " R2-1 36" X 48" 12.00     1 1   1 1   1   45 MPH, PART OF REMOVAL FOR SIGN #71   73   " S5-2 24" X 30" 5.00     1 1   1 1   1   45 MPH, PART OF REMOVAL FOR SIGN #72   1 1   1 1   1   30 MPH   1 1   1   1 1   -		66	п	12-3	60" X 24"	10. 00		1			1	1	
R2-1   36"   X   48"   12.00       1     1   1   45 MPH		67	п	W14-3	48" X 36"		6. 00	1	-		1	1	
70         STH 23, W. OF CENTER RD         W3-5         36" X 36"         9.00          1          1         1         30 MPH           71         "         R2-1         36" X 48"         12.00           1         1         1         30 MPH           72         "         R2-1         36" X 48"         12.00           1          1         45 MPH, PART OF REMOVAL FOR SIGN #71           73         "         S5-2         24" X 30"         5.00               MOUNT BELOW SIGN #72           74         "         R2-1         36" X 48"         12.00           1           MOUNT BELOW SIGN #72           75         "         R2-1         36" X 36"          6.75          1         1         1         30 MPH           76         "         S16-9P         30" X 18"          3.75            MOUNT BELOW SIGN #75, PART OF REMOVAL FOR SIGN #75           77         "         R2-6P         24" X 18"         3.00         <	Ш	68	п	R2-1	24" X 30"	5. 00		1			1	1	55 MPH
71         "         R2-1         36" X 48"         12.00           1          1         1         30 MPH           72         "         R2-1         36" X 48"         12.00           1          1         45 MPH, PART OF REMOVAL FOR SIGN #71           73         "         S5-2         24" X 30"         5.00                MOUNT BELOW SIGN #72           74         "         R2-1         36" X 48"         12.00           1         1         1         30 MPH           75         "         S1-1         36" X 36"          6.75          1         1         1         30 MPH           76         "         S16-9P         30" X 18"          6.75		69	п	R2-1	36" X 48"	12. 00			1		1	1	45 MPH
72         "         R2-1         36" X 48"         12.00           1          1         45 MPH, PART OF REMOVAL FOR SIGN #71           73         "         S5-2         24" X 30"         5.00               MOUNT BELOW SIGN #72           74         "         R2-1         36" X 48"         12.00          1          1         1         30 MPH           75         "         S1-1         36" X 36"          6.75          1         1         1         1           76         "         S16-9P         30" X 18"          3.75            MOUNT BELOW SIGN #75, PART OF REMOVAL FOR SIGN #75           77         "         R2-6P         24" X 18"         3.00                MOUNT BELOW SIGN #75, PART OF REMOVAL FOR SIGN #75           78         CENTER RD         R1-1         30" X 30"         5.18          1	$\prod$	70	STH 23, W. OF CENTER RD	W3-5	36" X 36"		9. 00		1		1	1	30 MPH
T2		71	п	R2-1	36" X 48"	12. 00			1		1	1	30 MPH
74         "         R2-1         36" X 48"         12.00           1          1         1         30 MPH           75         "         S1-1         36" X 36"         6.75          1         1         1         1           76         "         S16-9P 30" X 18"         3.75              MOUNT BELOW SIGN #75, PART OF REMOVAL FOR SIGN #75           77         "         R2-6P 24" X 18" 3.00               MOUNT BELOW SIGN #76           78         CENTER RD         R1-1         30" X 30" 5.18          1          1         1         1		72	п	R2-1	36" X 48"	12. 00				1		1	45 MPH, PART OF REMOVAL FOR SIGN #71
75         "         S1-1         36" X 36"         6.75          1         1         1         1           76         "         S16-9P 30" X 18"         3.75		73	п	S5-2	24" X 30"	5. 00							MOUNT BELOW SIGN #72
76         "         \$16-9P         30" X 18"          3.75		74	п	R2-1	36" X 48"	12. 00			1		1	1	30 MPH
77         "         R2-6P         24" X 18"         3.00                1          1         1         1         MOUNT BELOW SIGN #76           78         CENTER RD         R1-1         30" X 30"         5.18          1          1         1         1		75	п	S1-1	36" X 36"		6. 75			1	1	1	
77		76	п	S16-9P	30" X 18"		3. 75						MOUNT BELOW SIGN #75, PART OF REMOVAL FOR SIGN #75
		77	п	R2-6P	24" X 18"	3. 00							MOUNT BELOW SIGN #76
		78	CENTER RD	R1-1	30" X 30"	5. 18		1			1	1	
	ľ		PAGE SUBTOTALS			217. 74	52. 50	21	13	2	31	32	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PROJECT NUMBER: 1430-15-71 HWY: STH 23 COUNTY: FOND DU LAC MISCELLANEOUS QUANTITIES SHEET **E** 

#### REMOVE AND REPLACE OF TYPE II SIGNS AND SUPPORTS

				637. 2210	637. 2230		634. 0616	634. 0618			
				SI GNS	SI GNS	P0STS	POSTS	P0STS	REMOVI NG	REMOVI NG	
				TYPE II	TYPE II	WOOD	WOOD	WOOD	SI GNS	SMALL SIGN	
SIGN		SI GN			REFLECTIVE F	4x6x14	4x6x16	4x6x18	TYPE II	SUPPORTS	
NO.	LOCATI ON	CODE	WXH	S. F.	S. F.	EACH	EACH	EACH	EACH	EACH	REMARKS
79	STH 23, E. OF CENTER RD	W4-2R	36" X 36"		9. 00		1		1	1	
80	п	R2-1	24" X 30"	5. 00		1			1	1	30 MPH
81	п	R2-1							1	1	
82	п	D1-2	54" X 15"	5. 63		1			1	1	RIPON 9, SEE SIGN DETAIL SHEET
83	п	S4-51	24" X 48"		8. 00		1		1	1	15 MPH
84	п	W9-1R	36" X 36"		9. 00		1		1	1	
85	п	R2-1	24" X 30"	5. 00		1					30 MPH
86	п	J4-1							1	1	
87	п	D1-2									PART OF REMOVAL FOR SIGN #86
88	п	J4-1	24" X 36"	6. 00		1			1	1	WEST STH 23
89	п	I 55-56							1	1	
90	GRANT ST	R1-1	30" X 30"	5. 18		1			1	1	
91	STH 23, E. OF CENTER RD	S1-1	36" X 36"		6. 75		1		1	1	
92	п	S16-7L	30" X 18"		3. 75						MOUNT BELOW SIGN #91, PART OF REMOVAL FOR SIGN #91
93	GRANT ST	R1-1	30" X 30"	5. 18		1			1	1	
94	STH 23, W. OF GRANT ST	S1-1	36" X 36"		6. 75		1		1	1	
95	п	S16-7L	30" X 18"		3. 75						MOUNT BELOW SIGN #94, PART OF REMOVAL FOR SIGN #94
96	п	R2-1	24" X 30"	5. 00		1			1	1	30 MPH
97	п	S4-51	24" X 48"		8. 00		1		1	1	15 MPH
98	п	R2-1	24" X 30"	5. 00		1			1	1	30 MPH
99	п	S1-1	36" X 36"		6. 75			1	1	1	
100	п	S16-9P	30" X 18"		3. 75						MOUNT BELOW SIGN #99, PART OF REMOVAL FOR SIGN #99
101	п	R2-6P	24" X 18"	3. 00							MOUNT BELOW SIGN #100
102	п	J1-1	24" X 39"	6. 50		1			1	1	JCT STH 26
103	п	R2-1	24" X 30"	5. 00		1			1	1	30 MPH
	PAGE SUBTOTALS			56. 49	65. 50	10	6	1	19	19	

PLAN SHEET PRODUCED BY WisDOT - NE REGION PROJECT TOTALS

PROJECT NUMBER: 1430-15-71 HWY: STH 23 COUNTY: FOND DU LAC MISCELLANEOUS QUANTITIES SHEET **E** 

424. 49 193. 00 62 24 3 85

## 3

#### TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN   SIGN   SIGN   SIZE   15   PROTO   TYPE   T						APPROX.	643. 3000 DETOUR	643. 0420 BARRI CADES	643. 0705 WARNI NG	643. 0300 DRUMS	643. 0715 WARNI NG	643. 1050 SI GNS	643. 1000 SI GNS	COVE	643. 0920 ERI NG	
Mode	SI GN		SI GN	SIZE	NUMBER I N		SI GNS	TYPE III	LI GHTS TYPE A		LI GHTS TYPE C		FI XED MESSAGE			
To   100   St of Biological St   100   St of Biological St   100   St of St of St   100   St of St o	NO.	LOCATI ON	CODE	WXH	SERVI CE		DAYS	DAYS	DAYS	DAYS	DAYS		S. F.	EACH	EACH	REMARKS
### COLOR OF STREAM OF STR					1											
## Company   Com	2	@ J1-1 (JCT 44) ON STH 23/49 (E FOND DU LAC ST) (SB)			1											
S		"														
\$\frac{\text{Y} \text{ (F. 96 - 14 - 46) DX \text{ (N - 12 - 12 - 12 - 12)}}{\text{ (SS)}}\$\tag{2.7 \text{ (SS)}}\$\tag{3.7 \text{ (SS)}}\$\tag{2.7 \text{ (SS)}}\$		"			1 1											23
State   Stat		RT OF 13-1 (N- 44-AH) ON STH 23/49 (F FOND DILLAC ST)			1											
No.   1	3	` ' '	MO 4-8	24"x12"	1	59	59									
## 1   200   S OF STH 23 (E PROD PU LEC ST) # STH 49 (DATUMAS ST) # 11   27 \ 27 \ 27 \ 27 \ 28 \ 27 \ 27 \ 28 \ 28		"	MO 3-2		1	59										
4 S. QUAD DE STILE 25 (E-MORE DE LOC 27) & STILE 40 (1998) SDI \$1.1 > 59   59   118   11/4 M		"			-											
S	4	CE OUAD OF CTH 22 (F FOND DH LAC CT) & CTH 40 (METOMEN CT)			1 1			50	110							
0					1			39	116							1 1/4 MILES
ST   (SB)			NEO I O IV	00 AL I	1	00	00								1	EAST 23
No.	7		MO 4-8	24" x12"	1	59	59									
8A		"			1											
SA	-	"			1											23
86    172-4 (1923/N-40-40   173   1-227-4 4-40   175   1-27-23	QA	" TV3_1 (WL92/N 10 IT: F 92/N 11 DT)	MU 6-1	21"x21"	1 1	59	59								1	
8C			<del>                                     </del>		1			<del>                                     </del>				<del>                                     </del>			1	EAST 23
9 LT OF J4-2 (S-44/49) ON STH 40 (SB) # BINSTAD ST			MO 4-8-A	24"x18"	1	59	59									EMST 20
		"	М 1-6	EXI STI NG												23
N   1-6   24*\$24*   1   59   59	9	LT OF J4-2 (S-44/49) ON STH 49 (SB) @ RINGSTAD ST			1											
10   100' N OF RINGSTAD ST INTERSECTION ON STIL 49 (NB)   M0 -48   24" \$12"   1   59   59		"			1											
100   N OF RINGSTAD ST INTERSECTION ON STH 49 (NB)   M0 -4.8   24"x12"   1   59   59		"			1							-				
No. 3.4   24"x12"   1   59   59	10	100' N OF RINGSTAD ST INTERSECTION ON STH 49 (NB)			1											AREAD
		"			1											
The control of the		"			1											
		"			1											AHEAD
	11	LT OF J1-1 (JCT KK) ON STH 44/49 (SB)			1 1											
MO 5-1-L   21"x21"   1   59   59		II II			1											23
MB 3-2   24"x12"   1   59   59   59   23   LEFT		II II			1											20
M   1-6   24"x24"   1   59   59     23   LEFT	12	RT OF J13-1 (KK-LT & RT) ON HWY 44/49 (SB) (NEAR RT)	MO 4-8	24"x12"	1	59	59									
Second   S		"			1											
13   BACKSIDE OF J13-1 (KK-LT & RT) ON HWY 44/49 (NB) (FAR LT)   MD 4-8   24"x12"   1   59   59		"			1											
M0 3-2   24"x12"   1   59   59     23   24"x24"   1   59   59     24"x24"   1   59   59     25   25   25   25   25		"	MU 6-1	21"x21"	1	59	59			+						LEFT
" M1-6 24"x24" 1 59 59	13	BACKSIDE OF J13-1 (KK-LT & RT) ON HWY 44/49 (NB) (FAR LT)			1											
MD 6-1   21"x21"   1   59   59		II II			1											23
14 300' S 0F J1-1 (JCT KK) 0N STH 44/49 (NB) M 1-6 24"x24" 1 59 59 59 59 59 59 59 59 59 59 59 59 59		II II			1											LEFT
15	14	300' S OF J1-1 (JCT KK) ON STH 44/49 (NB)		24" x24"	1											23
M0 3-2   24"x12"   1   59   59     23   24"x12"   1   59   59     23   24"x12"   1   59   59     23   24"x12"   1   59   59     24"x12"   1   59   59   39     3   3   3   3   3   3   3   3		"														
M 1-6   24"x24"   1   59   59     23	15	250' N OF J1-1 (JCT KK) ON STH 44/49 (NB)														
Mi	-	" "			+ -			<del>                                     </del>				+			<del>                                     </del>	92
16       RT 0F J13-1 (KK-LT & RT) ON HWY 44/49 (NB) (NEAR RT)       M0 4-8       24"x12"       1       59       59 <td></td> <td>II II</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td> </td> <td> &amp;J</td>		II II			1							+				&J
	16	RT OF J13-1 (KK-LT & RT) ON HWY 44/49 (NB) (NEAR RT)			1											
		ıı .	MO 3-2	24"x12"		59	59									
17 BACKSI DE OF J13-1 (KK-LT & RT) ON HWY 44/49 (SB) (FAR RT) MO 4-8 24"x12" 1 59 59		"			1											23
" M0 3-2 24"x12" 1 59 59		"			1 1	59	59	<del>                                     </del>		<del> </del>		<del>                                     </del>		-	<del>                                     </del>	RI GHT
" M 1-6 24"x24" 1 59 59 59 23	17				1											
M 1-0 24 X24 1 39 39 25					1 1							-				
		ıı ı	MO 6-1	24 x24 21"x21"	1	59	59 59	<del>                                     </del>		<del> </del>		<del>                                     </del>				RI GHT

PROJECT NO: 1430-15-71 HWY: STH 23 COUNTY: Fond du Lac MISCELLANEOUS QUANTITIES SHEET: E

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# 3

DARRIC	CONTROL	DETAID	CTCN	CHARADY	
KAFFIC	CONTROL	DEIVUK	OI GN	SUMMARI	

SIGN		SI GN	SIZE	NUMBER I N	APPROX. SERVI CE PERI OD	643. 3000 DETOUR SI GNS	643. 0420 BARRI CADES TYPE III	643. 0705 WARNI NG LI GHTS TYPE A	643. 0300 DRUMS	643. 0715 WARNI NG LI GHTS TYPE C	643. 1050 SI GNS PORTABLE CHANGEABLE	643. 1000 SI GNS FI XED MESSAGE		643.0920 ERING GNS TYPE II	
					59						MESSAGE				
NO. 18	LOCATION  250' E OF STH 44/49 INTERSECTION ON CTY KK (EB)	CODE MO 4-8	W X H 24"x12"	SERVI CE	DAYS 59	DAYS 59	DAYS	DAYS	DAYS	DAYS	DAYS	S. F.	EACH	EACH	REMARKS
10	250 E OF SIR 44/49 INTERSECTION ON CIT RR (EB)	MO 3-2	24"x12"	1	59	59									
	II .	М 1-6	24" x24"	1	59	59									23
	п	MO 6-1	21"x21"	1	59	59									AHEAD
19	ABOVE J4-2 (N-44/N-49) ON STH 44/49 (NB)	MO 4-8 MO 3-4	24"x12" 24"x12"	1 1	59 59	59 59									
	II .	M 1-6	24" x24"	1	59	59									23
	п	MO 6-1	21"x21"	1	59	59									AHEAD
	GAP IN SIGN NUMBERING (20-22)														
23	RT OF J4-2 (N-44/N-49) ON CTY KK (WB)	MO 4-8	24"x12"	1	59	59									
	" "	MO 3-4 M 1-6	24"x12" 24"x24"	1 1	59 59	59 59									23
	II .	MO 6-1	21"x21"	1	59	59									RI GHT
24	RT OF J1-2 (JCT 44; JCT 49) ON CTY KK (WB)	MO 4-8	24"x12"	1	59	59									112 0112
	II .	MO 3-4	24"x12"	1	59	59									
	"	M 1-6	24"x24"	1	59	59									23
25	200' W OF BRANDON RD INTERSECTION ON CTY KK (WB)	MO 5-1-R MO 4-8	21"x21" 24"x12"	1	59 59	59 59									
23	200 W OF BRANDON RD INTERSECTION ON CIT RR (WD)	MO 3-4	24"x12"	1	59	59									
	П	М 1-6	24"x24"	1	59	59									23
	п	MO 6-1	21"x21"	1	59	59									AHEAD
26	200' W OF BRANDON RD INTERSECTION ON CTY KK (EB)	MO 4-8	24"x12"	1	59	59									<del>                                     </del>
	п	MO 3-2 M 1-6	24"x12" 24"x24"	1 1	59 59	59 59									23
	п	MO 6-1	21"x21"	1	59	59									AHEAD
27	200' W OF METOVALE RD INTERSECTION ON CTY KK (WB)	MO 4-8	24"x12"	1	59	59									
	"	MO 3-4	24"x12"	1	59	59									
	" "	M 1-6 MO 6-1	24"x24" 21"x21"	1 1	59 59	59 59									23 AHEAD
28	200' W OF METOVALE RD INTERSECTION ON CTY KK (EB)	MO 4-8	24"x12"	1	59	59									AREAD
~~	II (EB)	MO 3-2	24"x12"	1	59	59									
	"	М 1-6	24"x24"	1	59	59									23
20	HODERY 14 4 (10TH OO) ON OTHER BY (FID)	MO 6-1	21"x21"	1	59	59									AHEAD
29	MODIFY J1-1 (JCT 23) ON CTY KK (EB)	MO 4-8-A M 1-6	24"x18" EXI STI NG	1	59	59									23
30	MODIFY J4-1 (23-LT & RT) ON CTY KK (EB)	M 1-6	EXI STI NG												23
	II .	MO 6-1	21"x21"	1	59	59									RI GHT
31	LT OF J4-1 (23-LT & RT) ON CTY KK (EB)	MO 4-8	24"x12"	1	59	59									
	"	MO 3-1	24"x12"	1	59	59 59									11
	11	M 1-6 MO 6-1	24" x24" 21" x21"	1	59 59	59									44 AHEAD
	GAP IN SIGN NUMBERING (32-33)	MES G I	ZI AZI		00	00									THEERE
34	500' W OF J1-1 (JCT KK) ON STH 23 (WB)	WO 20-2-A	48"x48"	1	59	59									
35	RT OF J1-1 (JCT KK) ON STH 23 (WB)	MO 4-8	24"x12"	1	59	59									
	"	MO 3-4	24"x12"	1	59	59									
	п	M 1-6 MO 5-1-L	24"x24" 21"x21"	1 1	59 59	59 59									23
36	RT OF J13-1 (KK-LT) ON STH 23 (WB) (NEAR RT)	MO 4-8	24"x12"	1	59	59									
	II	MO 3-4	24"x12"	1	59	59									
	n	M 1-6	24"x24"	1	59	59									23
37	BACKSIDE OF J13-1 (KK-LT) ON STH 23 (EB) (FAR RT)	MO 6-1 MO 4-8	21"x21" 24"x12"	1 1	59 59	59 59									LEFT
3/	DACASIDE OF JIS-1 (NA-LI) UN SIN 23 (ED) (FAK KI)	MO 3-4	24 X12 24"X12"	1	59	59 59									
	п	M 1-6	24"x24"	1	59	59									23
	п	MO 6-1	21"x21"	1	59	59									LEFT
38	NW QUAD OF STH 23 & CTY KK INTERSECTION	R 11-3-B	60"x30"	1	59	59	59	118							1 1/2 MI LES
39 40	BELOW SIGN # 38  J4-1 (W-23) @ CTY KK INTERSECTION	MO 4-9-L	30"x24"	1	59	59								1	WEST 23
41	FIELD LOCATED - STH 23 (WB)	PCMS		1							7			1	PRI OR TO CONSTRUCTION
42	FIELD LOCATED - STH 23 (EB)	PCMS		1							7				PRI OR TO CONSTRUCTION
	TOTAL	<u>.                                      </u>		105	<u> </u>	6, 077	118	236	0	0	14	0	0	4	
		+		•	•							•			*

PROJECT NO: 1430-15-71 HWY: STH 23 COUNTY: Fond du Lac MISCELLANEOUS QUANTITIES SHEET: E

### 646-PAVEMENT-MARKINGS

			GROOVED							
			WET REFL		SAME DAY	STOP LINE	CROSSWALK	LOCATI NG	TEMP	
			<b>EPOXY</b>	EPOXY	<b>EPOXY</b>	EPOXY	EPOXY	NO-PASS	PVMT MKG	
			4- I NCH	8-INCH	4- I NCH	18- I NCH	6- I NCH	ZONES	4-INCH	
			646. 2304. S	646. 0126	646. 0406	647. 0566	647. 0766	648. 0100	649. 0100	
CATEGORY	STATION TO STATION	LOCATI ON	LF	LF	LF	LF	LF	MI	LF	REMARKS
0010	22+00 - 433+10	STH 23	82160	2200	41110	30	50	7. 786	50000	MATCH EXISTING
		TOTAL 0010	82160	2200	41110	30	50	7. 786	50000	

#### CONSTRUCTION STAKING RESURFACING REFERENCE

CATEGORY	STATION TO STATION	LOCATI ON	650. 8000 LF	REMARKS
0010	22+00 - 433+10	STH 23	41110	PROJECT
		TOTAL 0010	41110	

#### SAWING CONCRETE

				690. 0250	
CATEGORY	STATI ON	LOCATI ON		LF	REMARKS
0010	90+99	STH 23		60	FROST HEAVE
0010	107+12	STH 23		30	BOX CULVERT REPLACEMENT
0010	110+58	STH 23		30	BOX CULVERT REPLACEMENT
0010	192+00	STH 23		60	FROST HEAVE
0010	197+00	STH 23		60	CULVERT PIPE REPLACEMENT
0010	249+00	STH 23		60	CULVERT PIPE REPLACEMENT
0010	283+17	STH 23		60	CULVERT PIPE REPLACEMENT
0010	288+62	STH 23		60	CULVERT PIPE REPLACEMENT
0010	404+11	STH 23		60	CULVERT PIPE REPLACEMENT
0010	426+50	STH 23		40	CULVERT PIPE REPLACEMENT
			TOTAL 0010	520	

#### MILLING AND REMOVING TEMPORARY JOINT

			SPV. 0090. 01	
CATEGORY	STATION TO STATION	LOCATI ON	LF	REMARKS
0010	22+00 - 433+10	STH 23	41110	CENTER LINE
		TOTAL 0010	41110	

## SAWI NG ASPHALT

			690. 0150	
CATEGORY	STATI ON	LOCATI ON	LF	REMARKS
0010	22+00	STH 23	30	BEGIN PROJECT
0010	40+50	EASTGATE DR	20	PRI VATE DRI VEWAY
0010	62+00	BRANDON RD	30	I NTERSECTI ON
0010	100+80	SILVER CREEK RD W	20	I NTERSECTI ON
0010	124+25	SILVER CREEK RD E	20	I NTERSECTI ON
0010	155+75	WI LLOW RD	30	I NTERSECTI ON
0010	177+10	WI TTCHOW RD	20	I NTERSECTI ON
0010	182+00	ROSE- ELD RD	30	I NTERSECTI ON
0010	248+20	СТН КК	30	I NTERSECTI ON
0010	267+50	POMMERING RD	30	I NTERSECTI ON
0010	307+90	CTH M	60	I NTERSECTI ON
0010	415+25	CENTER RD	30	I NTERSECTI ON
0010	427+15	GRANT ST	50	I NTERSECTI ON
0010	433+10	STH 23	40	END PROJECT
		TOTAL 0010	440	

#### TEMPORARY SAND BAG DIKE

SPV. 0105. 01

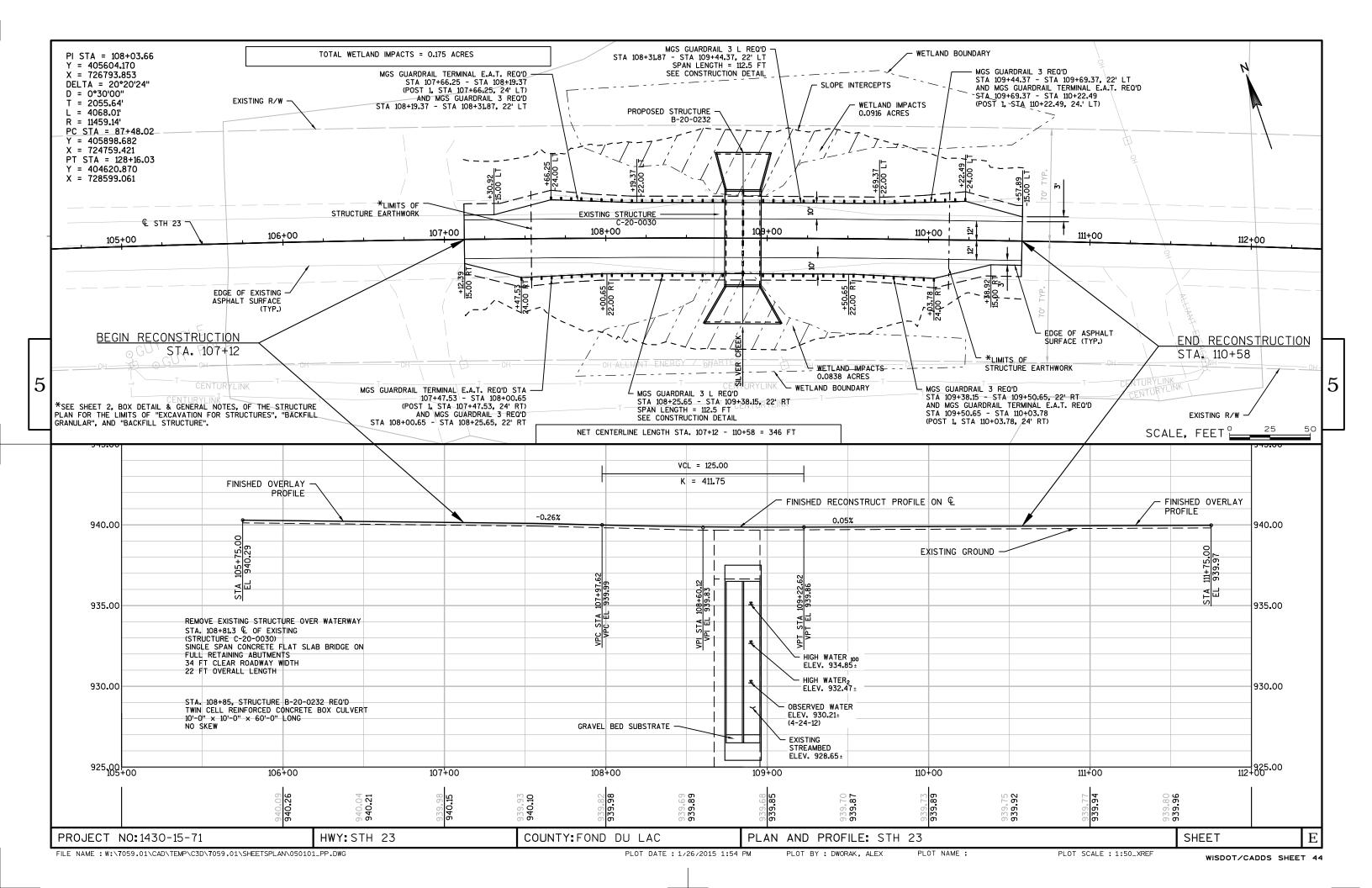
CATEGORY	STATI ON	LOCATI ON	LS	REMARKS	
0010	108+85	B- 20- 0232	1	TEMPORARY BYPASS STAGE 2	
	PROJI	ECT TOTALS =	1	-	

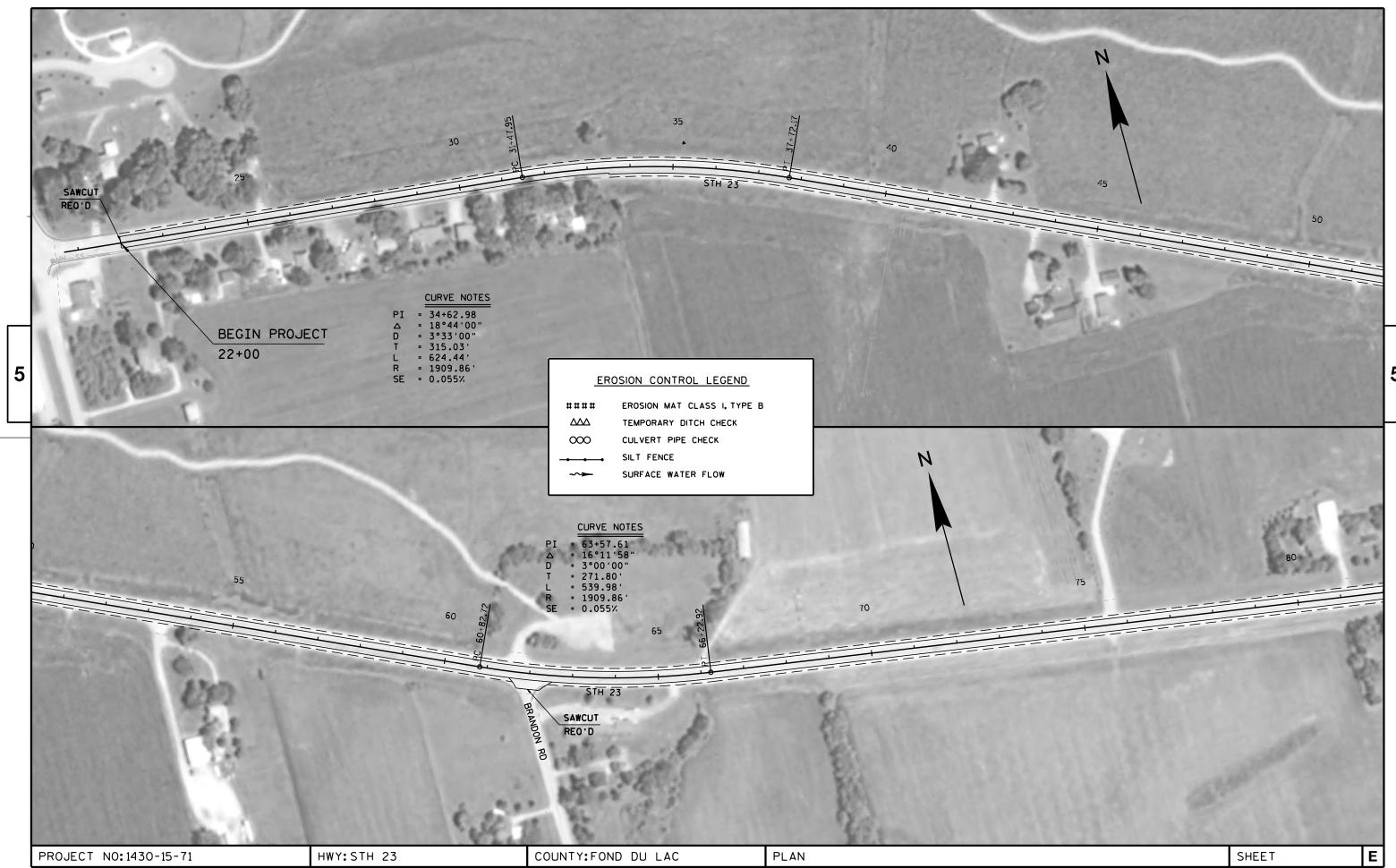
HWY: STH 23 PROJECT NO: 1430-15-71 COUNTY: Fond du Lac SHEET: Ε MISCELLANEOUS QUANTITIES

Di vi si on	From/To Station	Locati on	Common Excavation (1)	205. 0100)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Marsh Excavation (6)	Rock Excavation (7)		Reduced EBS in Fill (9)		Expanded EBS Backfill (11)	Expanded Rock (12)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Borrow
Division 1			Cut (2)	EBS Excavation (3)			(item #205.0400)	(item #205.0200)	Factor 0.60	Factor 0.80	Factor 1.50	Factor 1.30	Factor 1.10		Factor 1. 25			(item #208.0100)
EWKDetail - STH 23	107+12. 39/110+57. 9	STH 23	2, 144	0	368	1, 775	0	0	0	0	0	0	0	48	60	1, 715	1, 715	0
Division 1 Subtotal			2, 144	0	368	1, 775	0	0	0	0	0	0	0	48	60	1, 715	1, 715	0
Grand Total			2, 144	0	368	1, 775	0	0	0	0	0	0	0	48	60	1, 715	1, 715	0
		Total	Common Exc	2 144														

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- 6) Marsh Excavation to be backfilled with Select Borrow Material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well. Item number 205.0400
- 7) Rock Excavation item number 205.0200
- 8) Reduced Marsh in Fill Excavated Marsh material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
- 9) Reduced EBS in Fill Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
- 10) Expanded Marsh Backfill This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item number 208.1100
- 11) Expanded EBS Backfill This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
- 12) Expanded Rock Factor = 1.1
- 13) Expanded Fill. Factor = 1.25
- Depending on selections: Expanded Fill = (Unexpanded Fill Rock\* Rock Factor Reduced Marsh Reduced EBS) \* Fill Factor
  - Or Expanded Fill = (Unexpanded Fill Rock\* Rock Factor Reduced EBS) \* Fill Factor
  - Or Expanded Fill = (Unexpanded Fill Rock\* Rock Factor Reduced Marsh) \* Fill Factor
  - Or Expanded Fill = (Unexpanded Fill Rock\* Rock Factor) \* Fill Factor
- 14) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
- 15) Use 60 CY of material from Division 1. Borrow Excavation item number 208.0100

STATE PROJECT NO: 1430-15-71	HWY: STH 23	COUNTY: FOND DU LAC	MISCELLANEOUS QUANTITIES	SHEET NO:	E





FILE NAME: F:\D3\_143015\050211\_pn.dgn

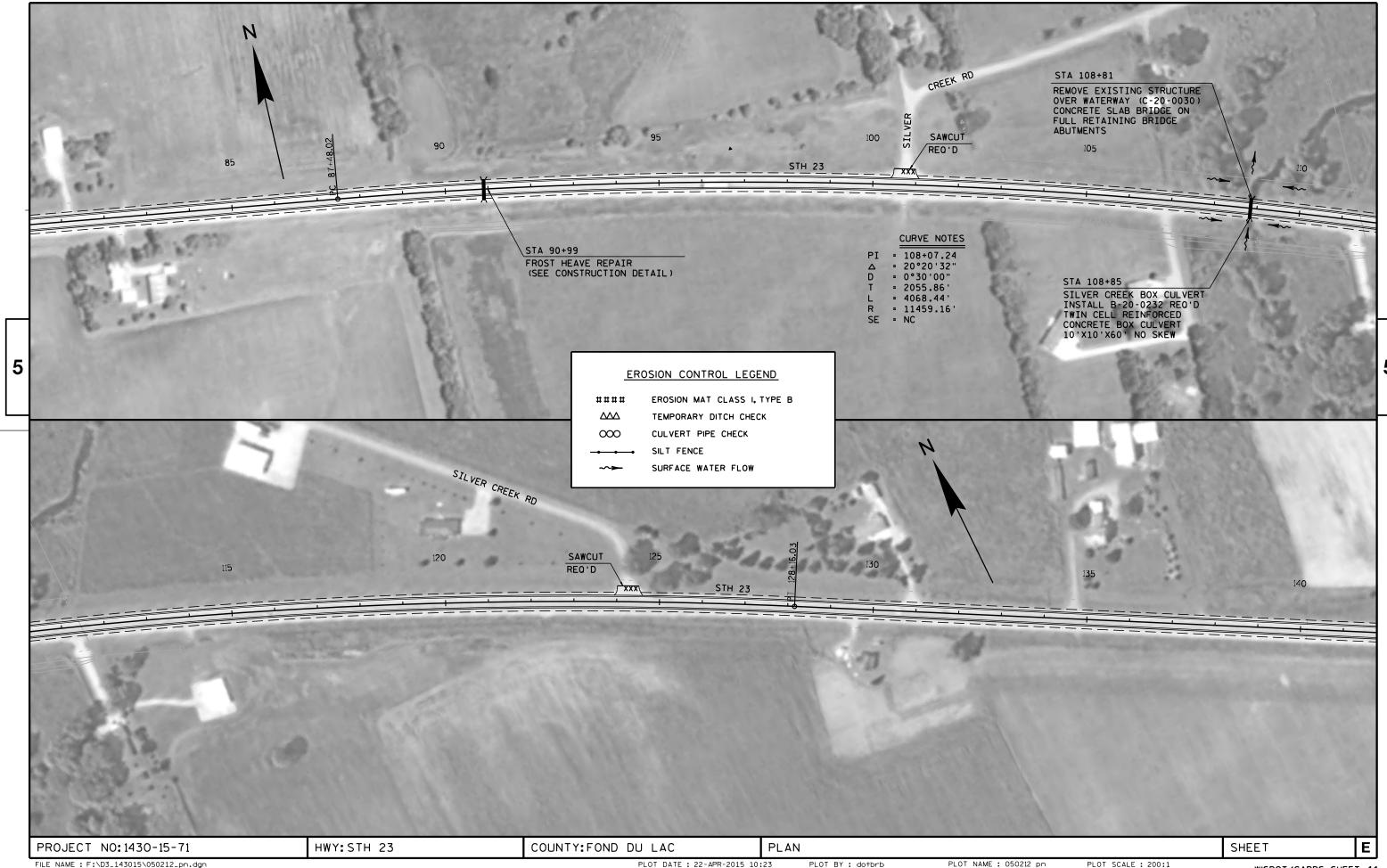
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PLOT BY: dotbrb

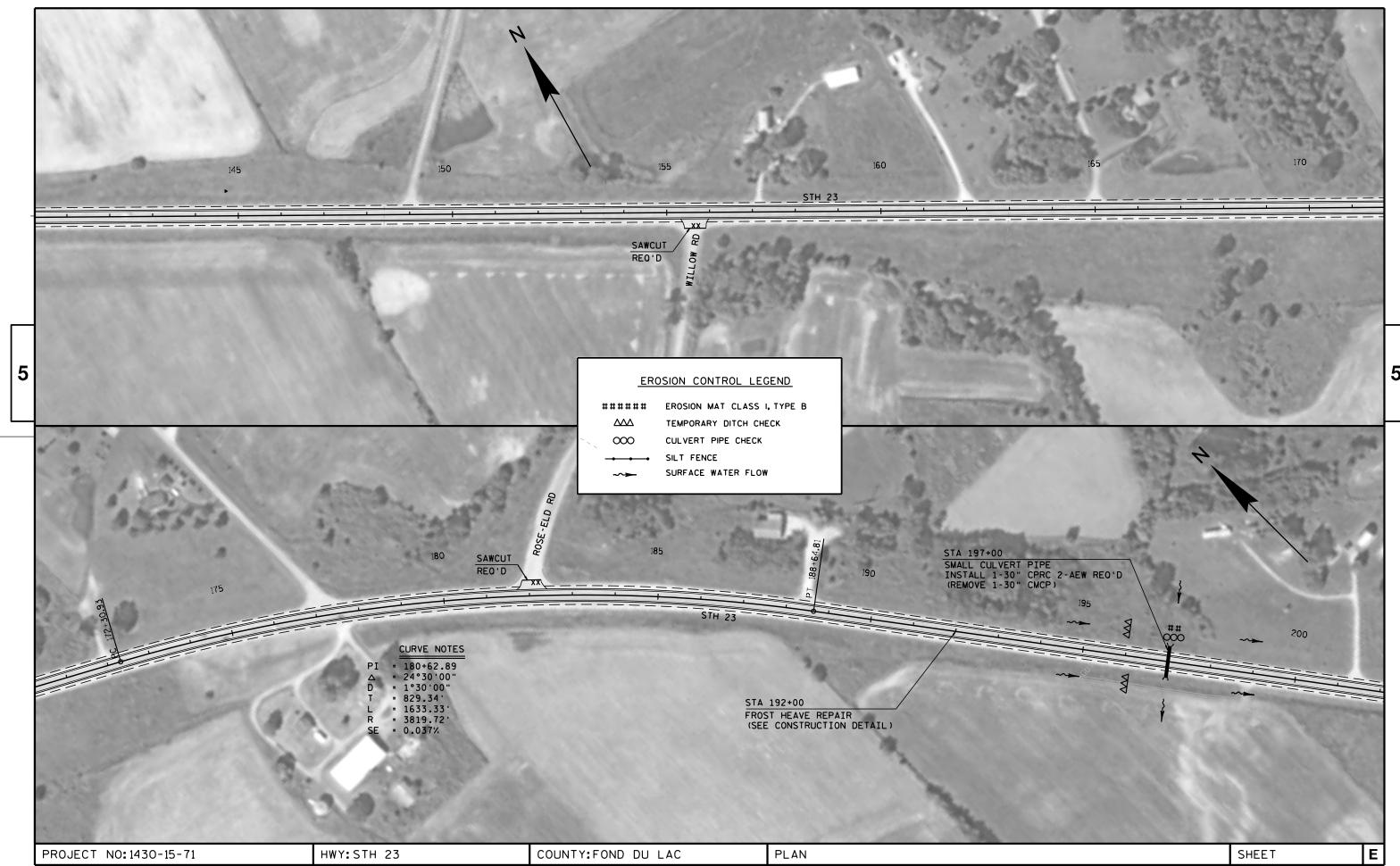
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PLOT SCALE: 200:1

WISDOT/CADDS SHEET 44



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PLOT BY: dotbrb

PLOT NAME: 050213 pn

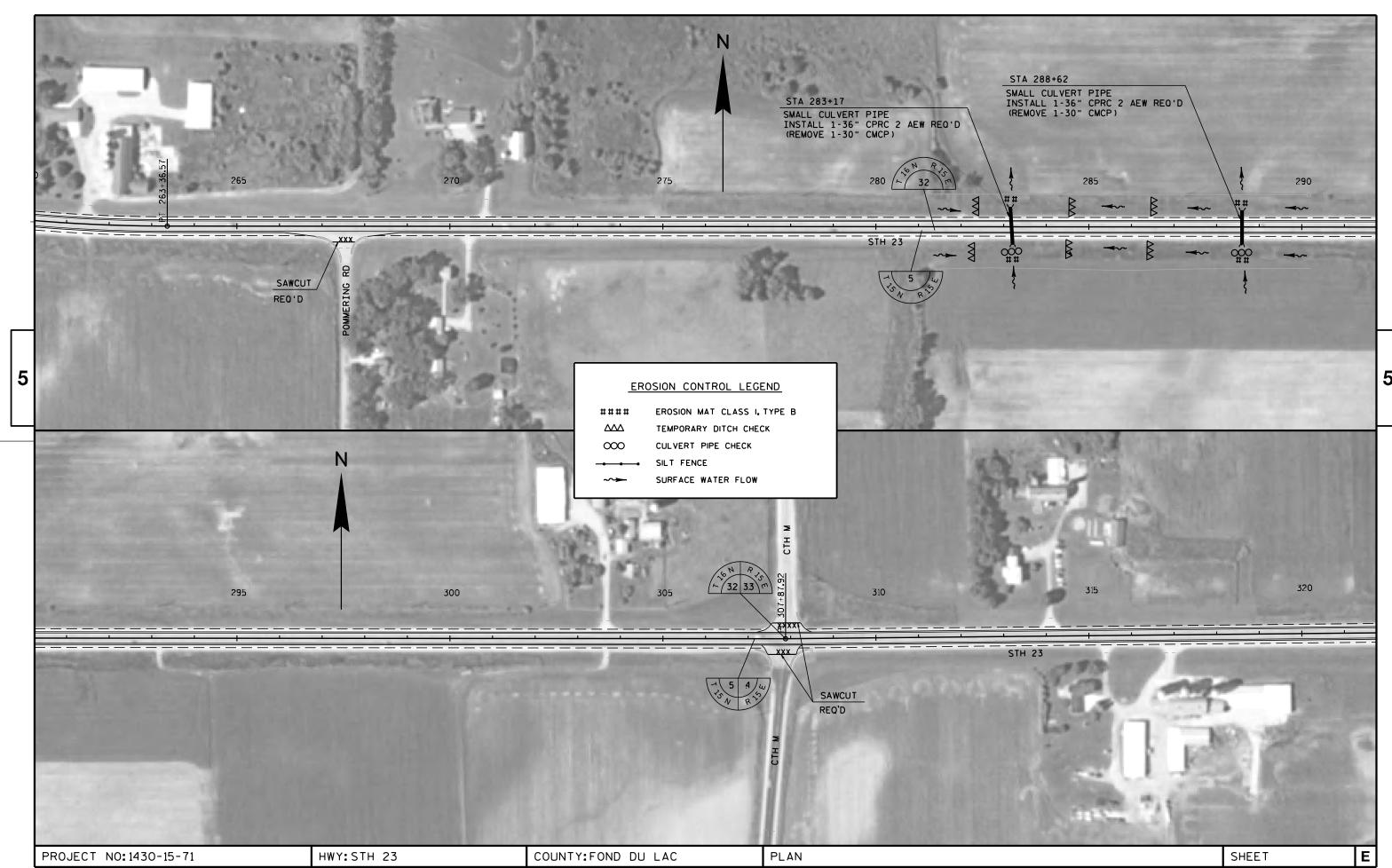
PLOT SCALE: 200:1

WISDOT/CADDS SHEET 44



FILE NAME: F:\D3\_143015\050214\_pn.dgn PLOT BY: dotbrb PLOT NAME: 050214 pn PLOT SCALE: 200:1

WISDOT/CADDS SHEET 44



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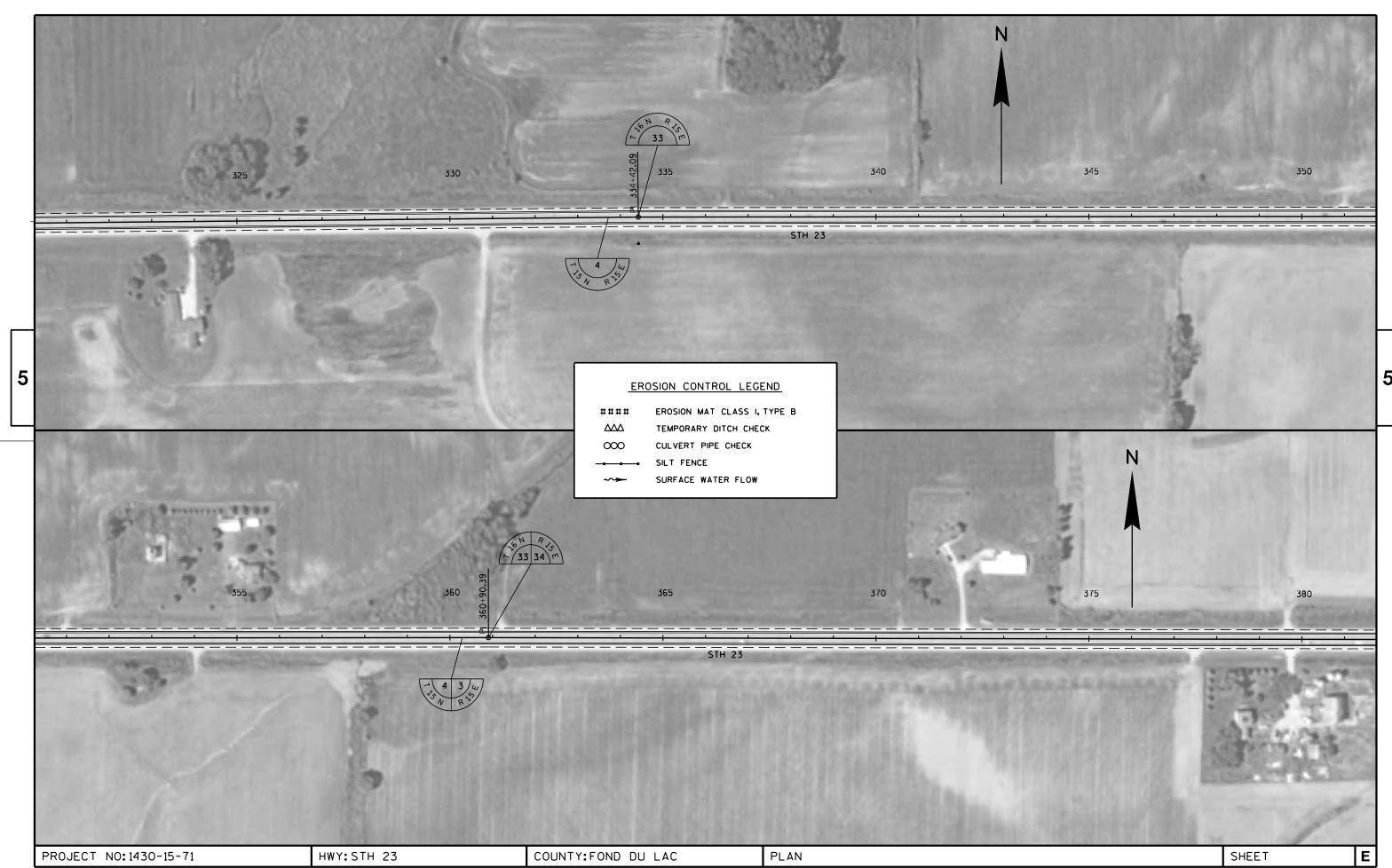
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PLOT BY: dotbrb

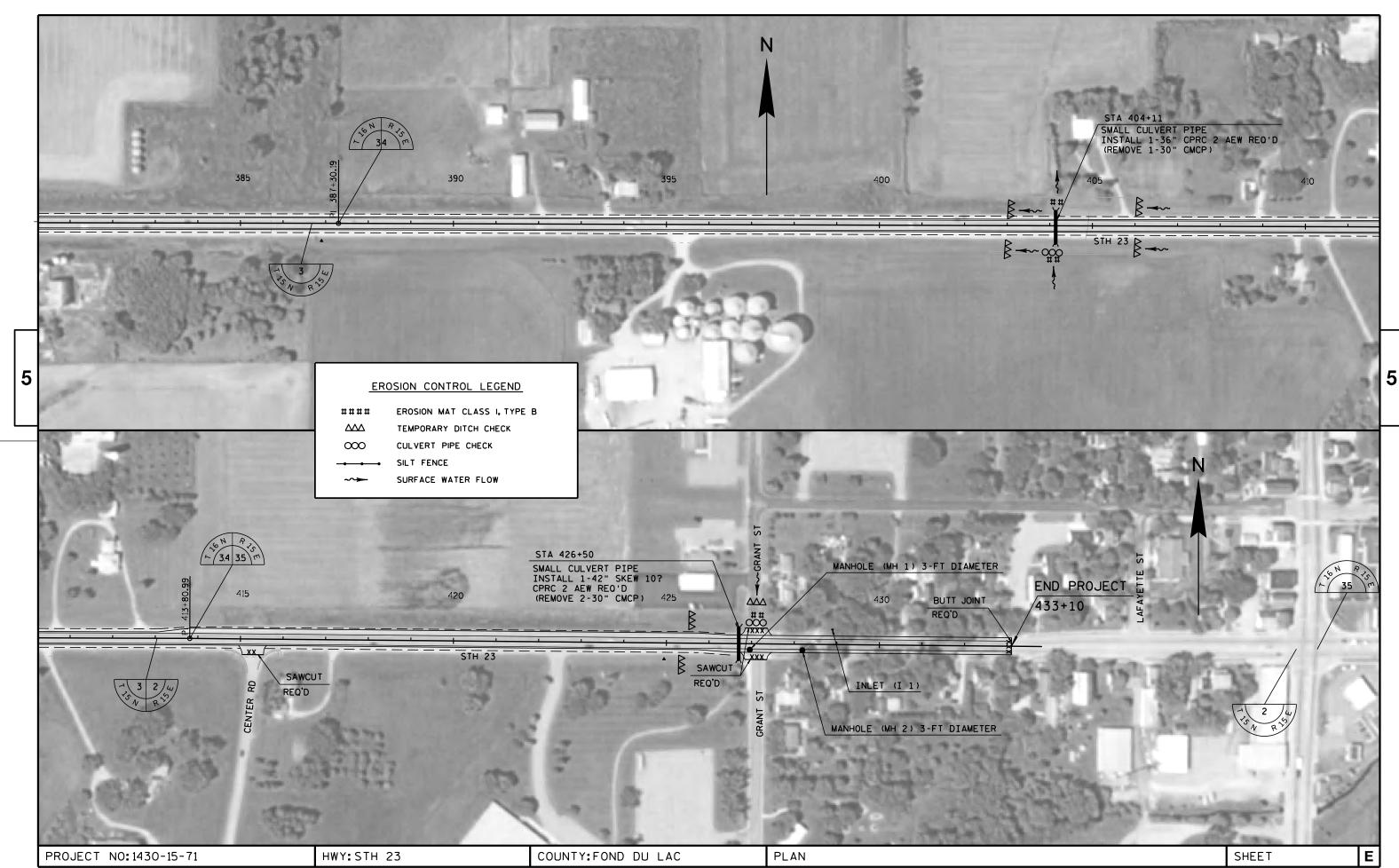
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PLOT SCALE: 200:1

WISDOT/CADDS SHEET 44



WISDOT/CADDS SHEET 44



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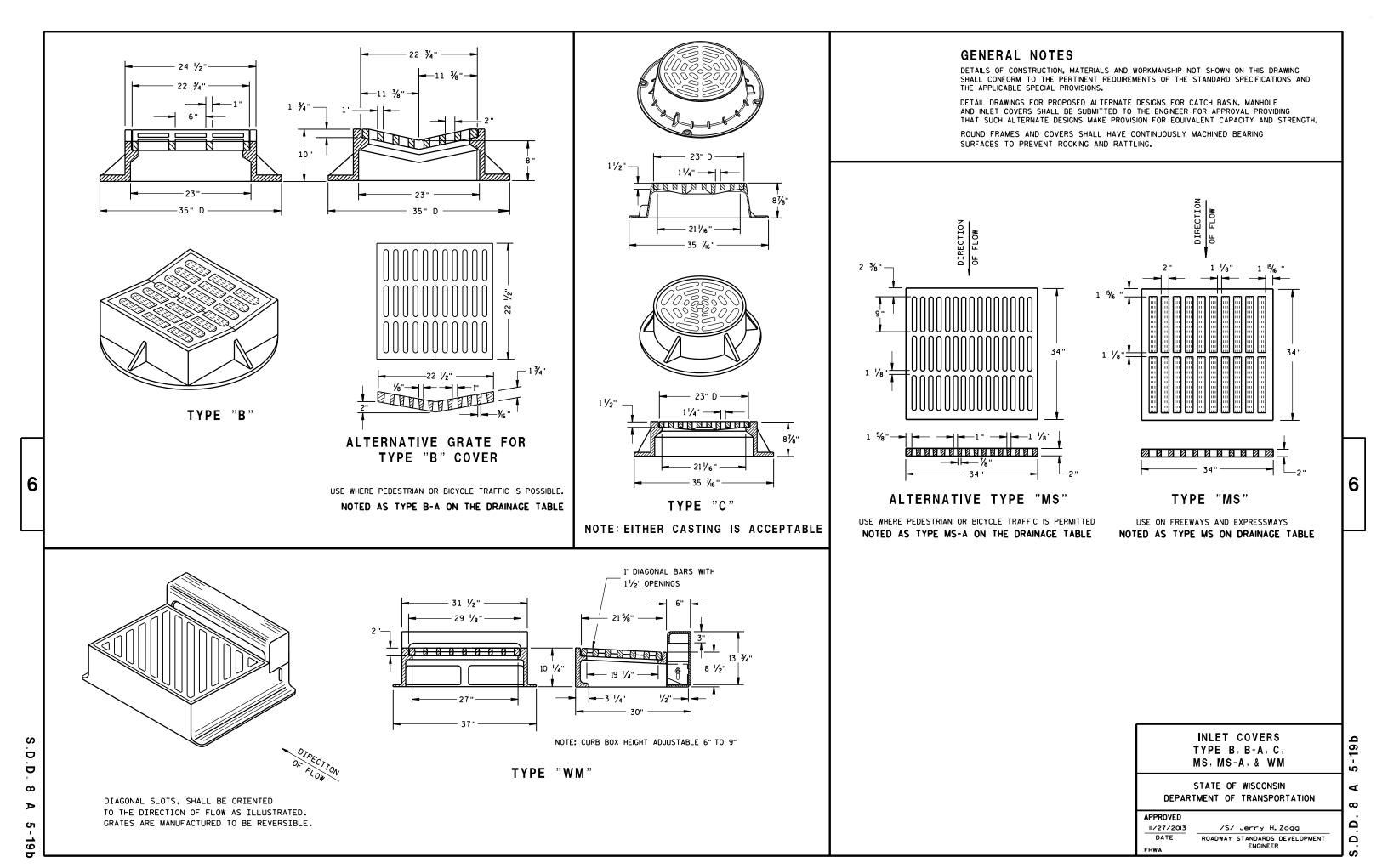
WISDOT/CADDS SHEET 44

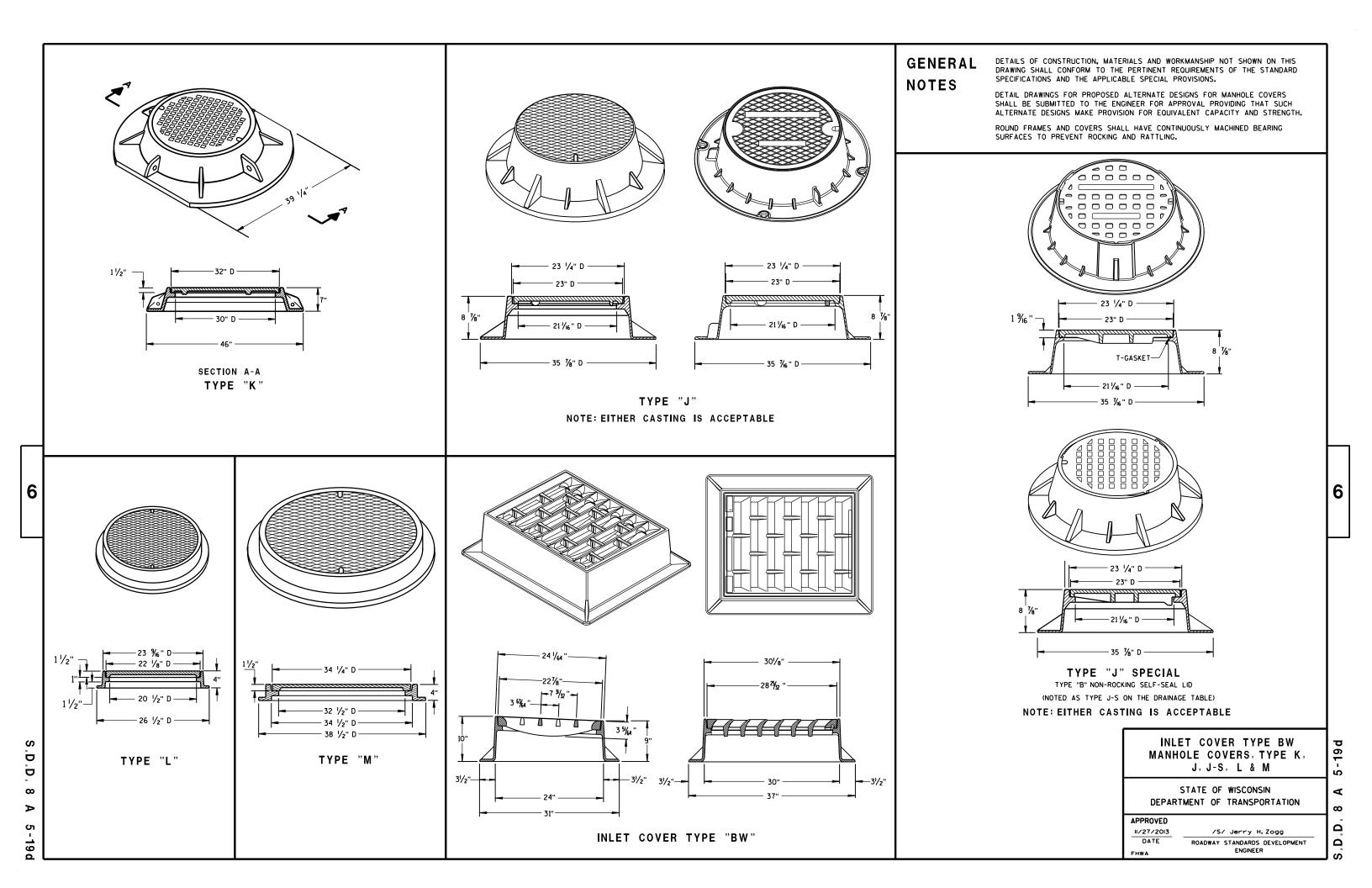
# Standard Detail Drawing List

08A05-19B 08A05-19D 08B09-01 08C07-01 08D01-17 08D05-15A 08D05-15B 08D05-15C 08D05-15D 08D05-15E 08E08-03 08E09-06 08E10-02 08F01-11 08F04-07 09A01-13A 12A03-10 13A11-02A 13A11-02B 14B42-03C 14B42-03C 14B42-03C 14B43-03C 14B43-03C 14B43-03C 14B43-03C 14B43-03C 14B44-02C 15A03-02A 15A03-02B 15C02-05A 15C02-05B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES CURB RAMPS TYPES 1 AND 1-A CURB RAMPS TYPES 2 AND 3 CURB RAMPS TYPES 2 AND 441 CURB RAMPS TYPES 5, A, 7A, 7B & 8 TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS SILT FENCE INLET PROTECTION TYPE A, B, C AND D APRON ENDWALLS FOR CULVERT PIPE JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2" NAME PLATE (STRUCTURES) 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING SAFETY EDGE MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) FLEXIBLE MARKER POST FOR CULVERT END BARRI CADES AND SIGNS FOR MAINLINE CLOSURES BARRI CADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C 15C04-02	DETOUR SIGNING FOR MAINLINE CLOSURES TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C04-02	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D30-01	TRAFFIC CONTROL, SI DEWALK CLOSURE

6

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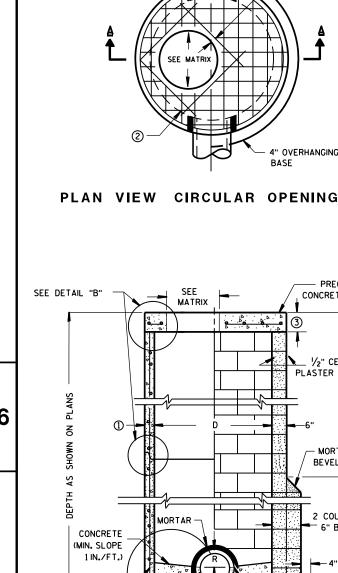






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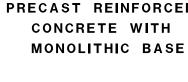
SEE

MORTAR -

MATRIX

• 4° • •

PRECAST REINFORCED — CONCRETE FLAT SLAB TOP



②-

CONTRACTOR TO PROVIDE DRAWING(S)

STAMPED BY A PROFESSIONAL ENGINEER

SEE DETAIL "A"

(I)·

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

2" (TYP)

" OVERHANGING

- PRECAST REINFORCED

CONCRETE FLAT SLAB TOP

1/2" CEMENT

- MORTAR

BEVEL 45°

2 COURSES 으는

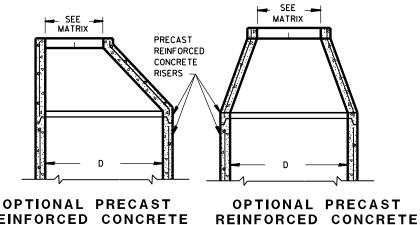
12'. EPT

6" BLOCK

4" MIN

SPLIT PIPE OR FORM CONCRETE TO FIT

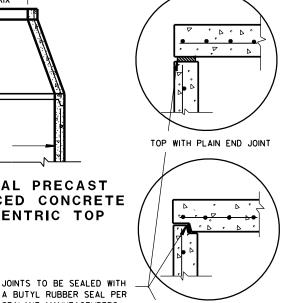
PLASTER COAT



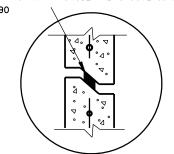
REINFORCED CONCRETE **ECCENTRIC TOP** CONCENTRIC TOP

**PRECAST** 

WALL

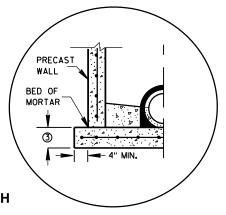


A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS TOP WITH TONGUE AND GROOVE JOINT RECOMMENDATIONS CONFORMING TO ASTM C990



RISER WITH TONGUE AND GROOVE JOINT

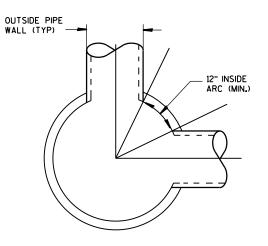
**DETAIL** "B"



PRECAST REINFORCED

CONCRETE WITH INTEGRAL BASE OPTION

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION DETAIL "A"



DETAIL "C"

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

#### **GENERAL NOTES**

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

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

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

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

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

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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

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

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2" AND MEET THE REQUIREMENTS OF ASTM A615.

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

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

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

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

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

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

- MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT. 5 INCHES FOR 4-FT. 6 INCHES FOR 5-FT. 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.
- (2) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.
- (3) PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS

#### MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	С	ALL J'S	К	L	M
OPENING SIZE (FT)					
2 DIA.	х	х		х	
3 DIA.			×		Х

#### PIPE MATRIX

MANHOLE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES							
SIZE	180° SEPARATION (IN)	90° SEPARATION (II						
3-FT	15	12						
4-FT	24	18						
5-FT	36	24						
6-FT	42	36						
7-FT	48	36						
8-FT	60	42						

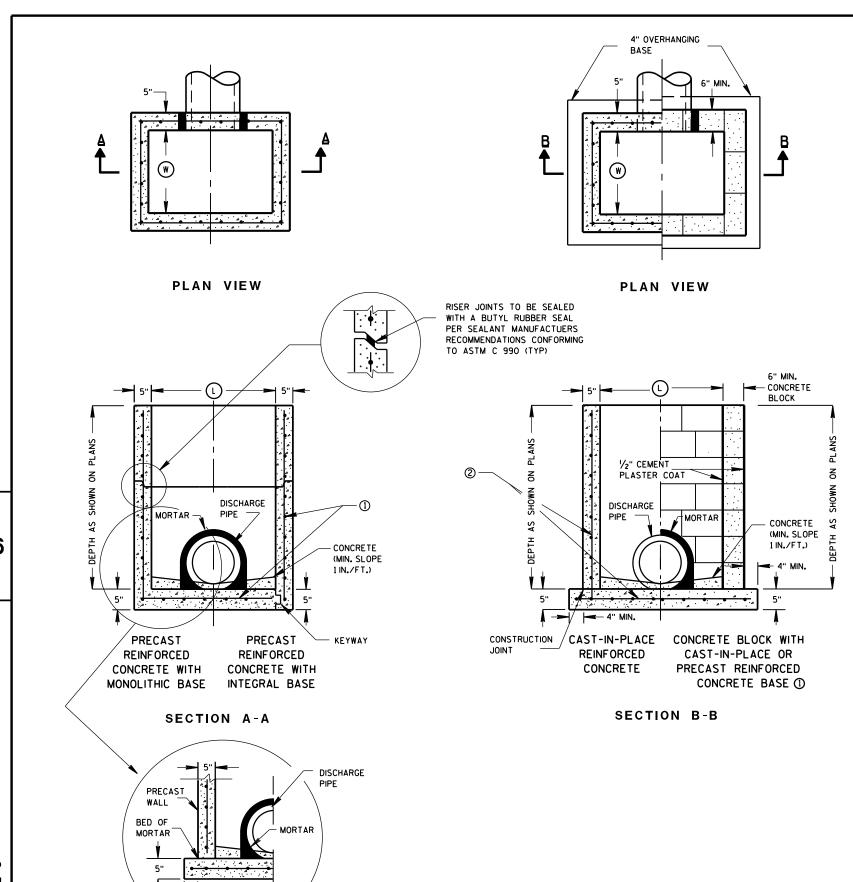
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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

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

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

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

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

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

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

- 4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
- 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
- OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

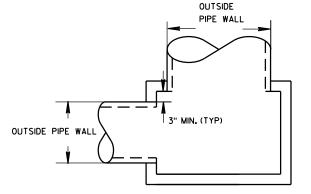
- 1) FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- (2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

#### INLET COVER MATRIX

	INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	s	т	v	WM
		WIDTH (W) (FT)	LENGTH (L) (FT)									
	2X2-FT	2	2	X	х				Х		Х	
ſ	2X2.5-FT	2	2.5			Х			Х	Х	Х	Х
[	2X3-FT	2	3					Х				
	2.5X3-FT	2.5	3				Х					

#### PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER							
INLET SIZE	WIDTH (IN)	LENGTH (IN)						
2X2-FT	12	12						
2X2.5-FT	12	18						
2X3-FT	12	24						
2.5X3-FT	18	24						



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**APPROVED** 6/5/2012 DATE

FHWA

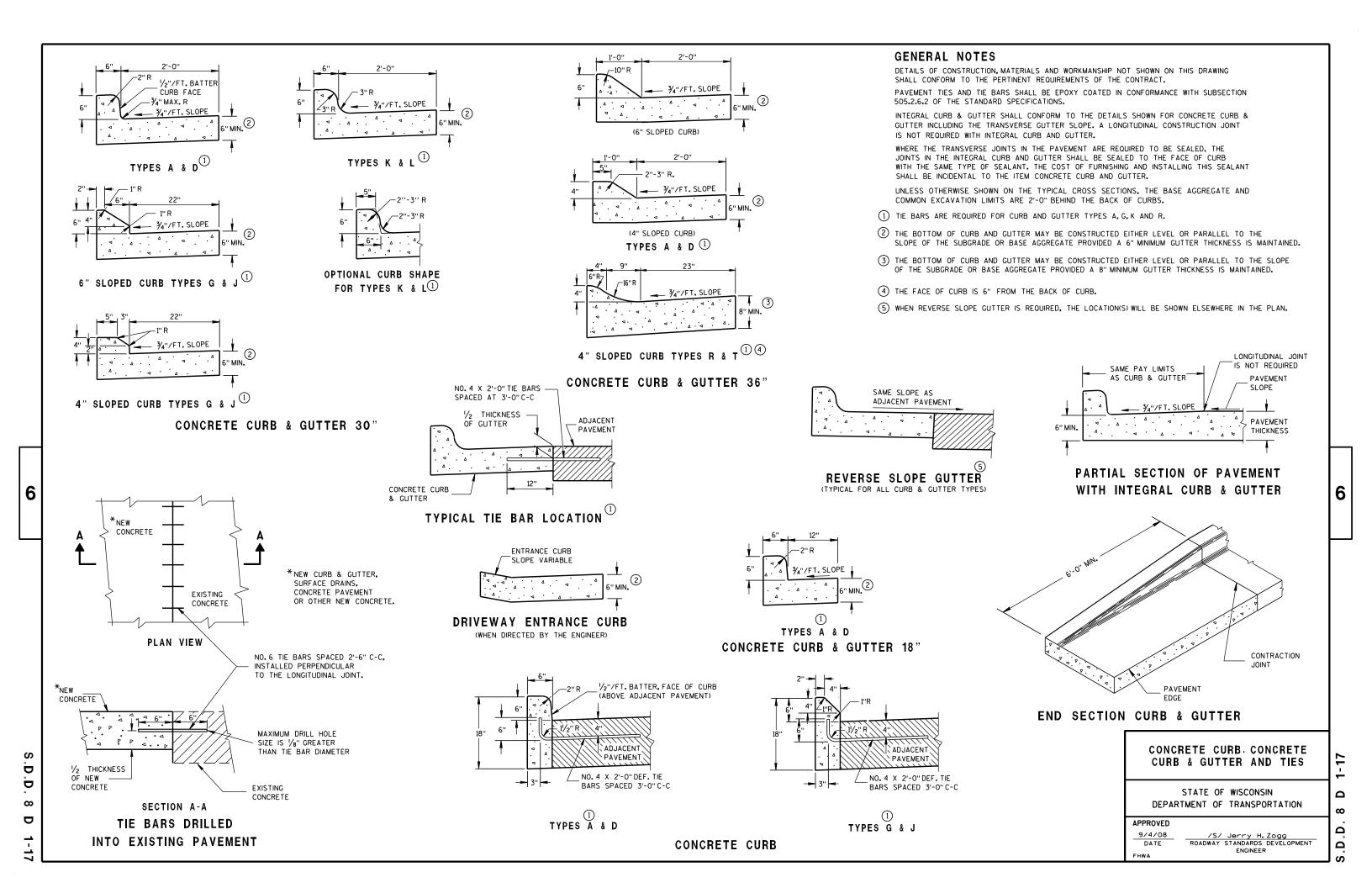
/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT

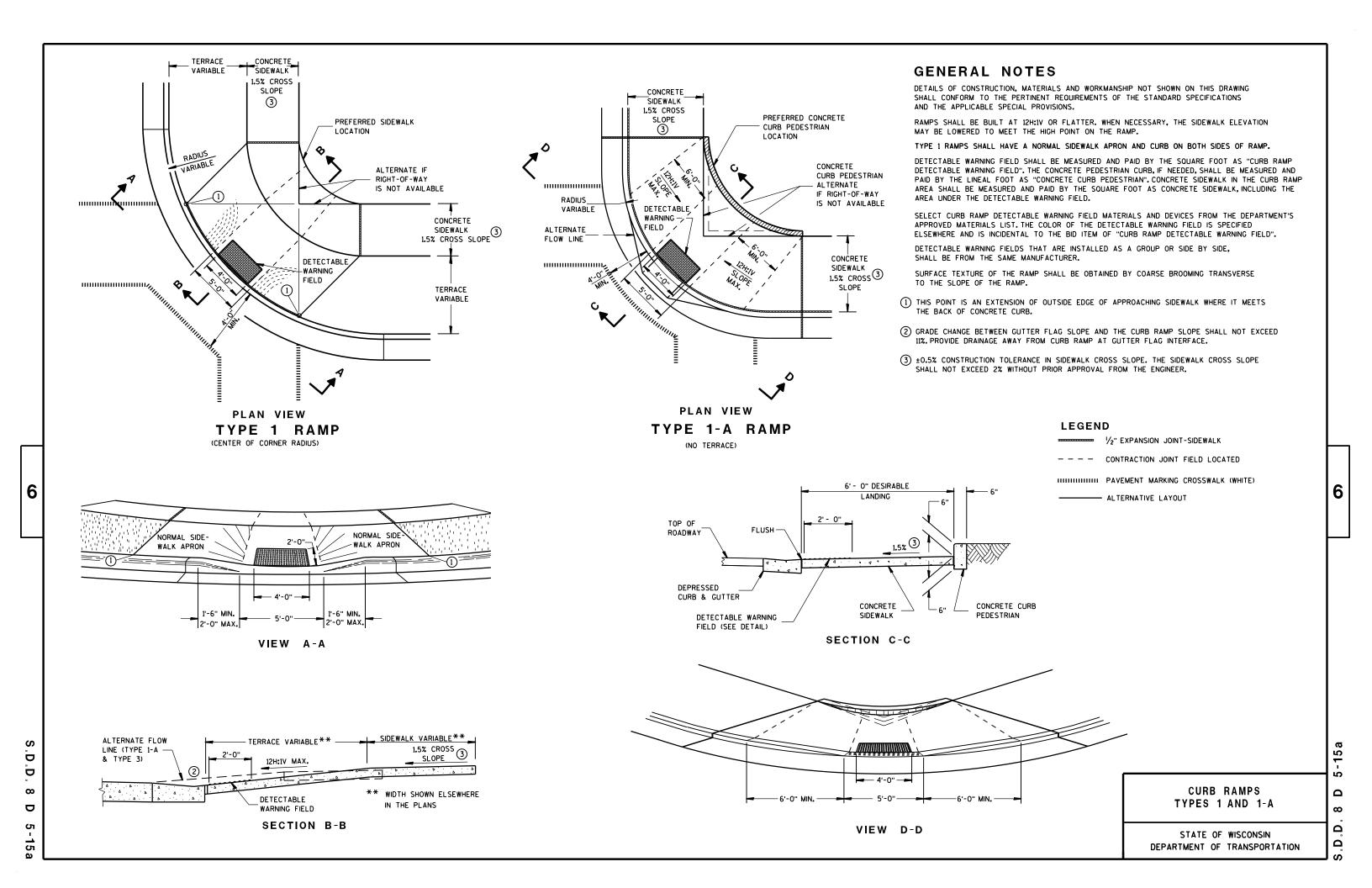
ENGINEER

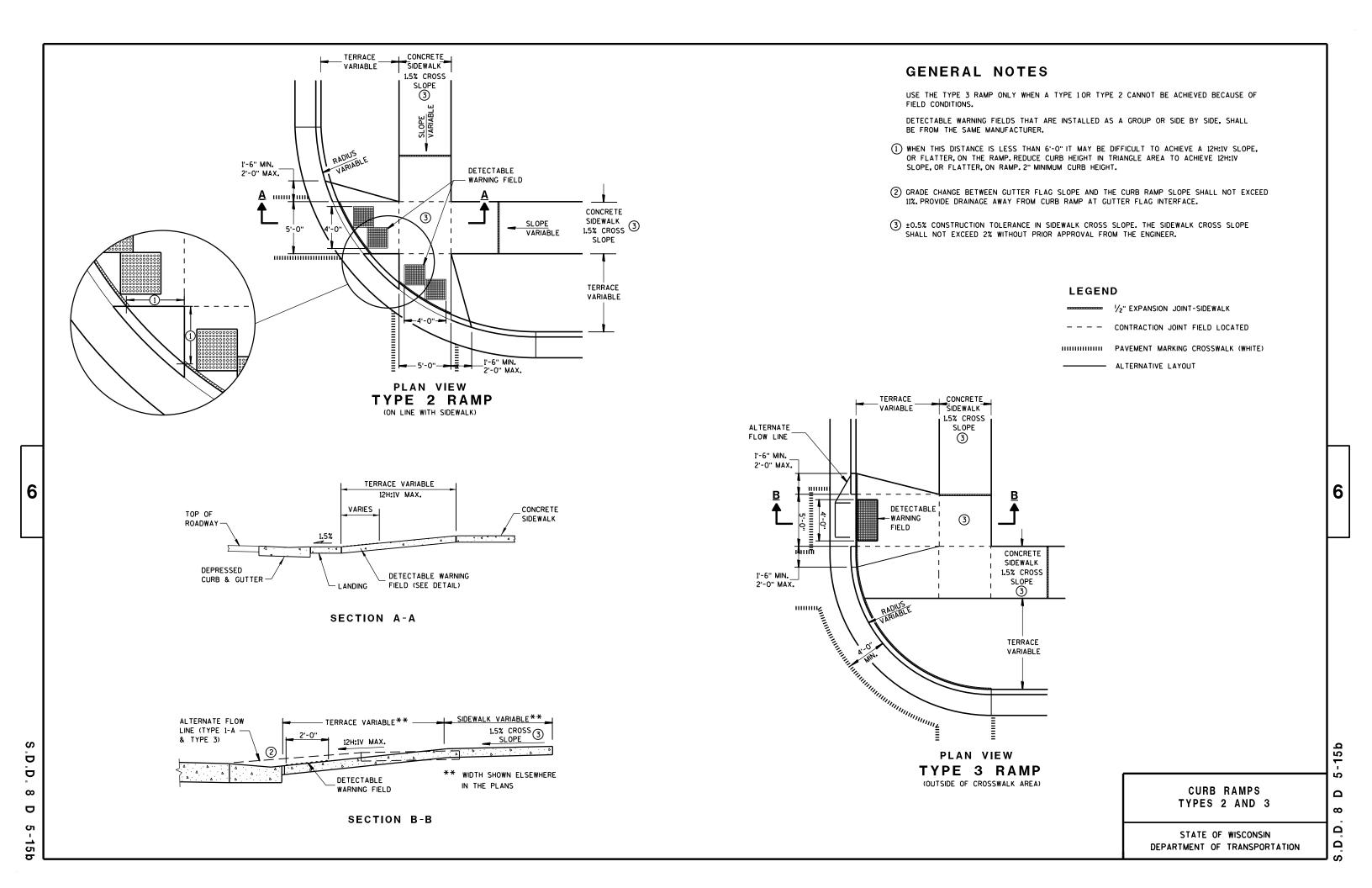
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

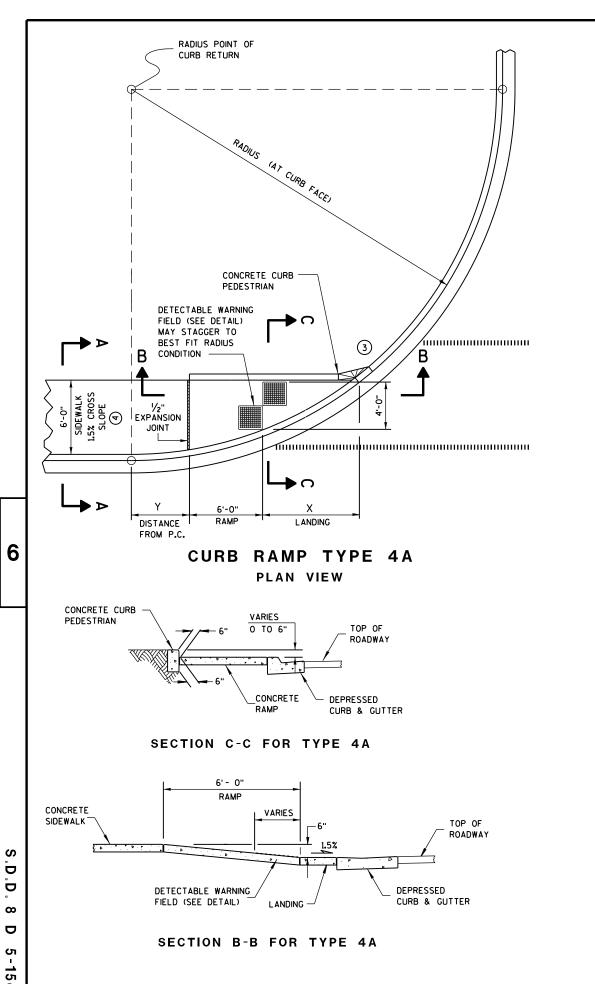
SEPARATE PRECAST REINFORCED

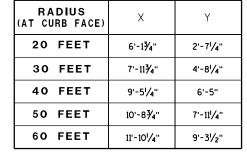
CONCRETE BASE OPTION











AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE.

4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS

SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

ISOMETRIC VIEW FOR TYPE 4A

ISOMETRIC VIEW FOR TYPE 4A1

₩ 1/2" EXPANSION JOINT-SIDEWALK

HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

CONTRACTION JOINT FIELD LOCATED

CURB RAMPS

TYPES 4A AND 4A1

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

**LEGEND** 

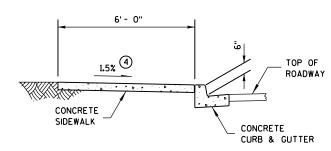
OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

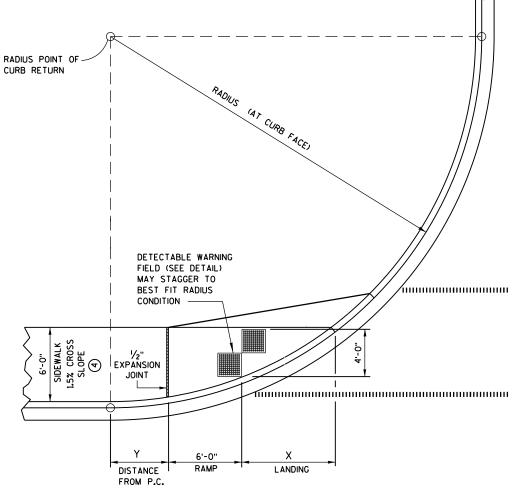
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

SHALL BE FROM THE SAME MANUFACTURER.

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

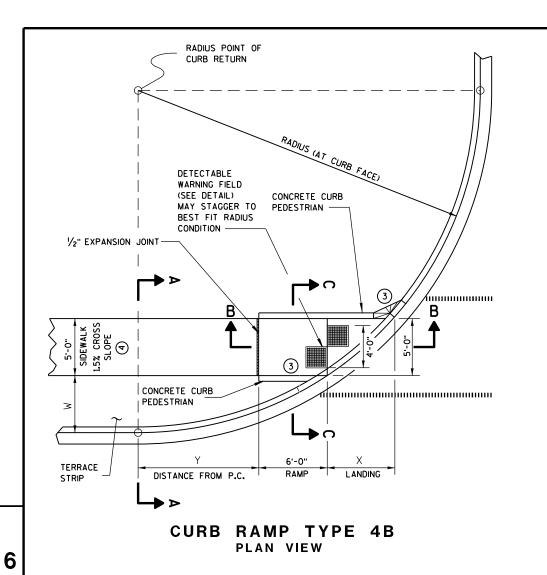


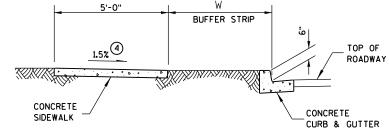
CURB RAMP TYPE 4A1
PLAN VIEW

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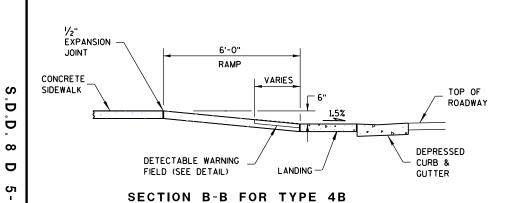
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SECTION A-A FOR TYPE 4B



#### LEGEND

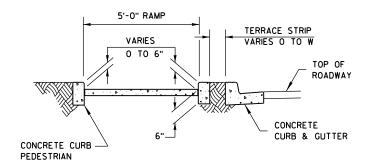
/2" EXPANSION JOINT-SIDEWALK

---- CONTRACTION JOINT FIELD LOCATED

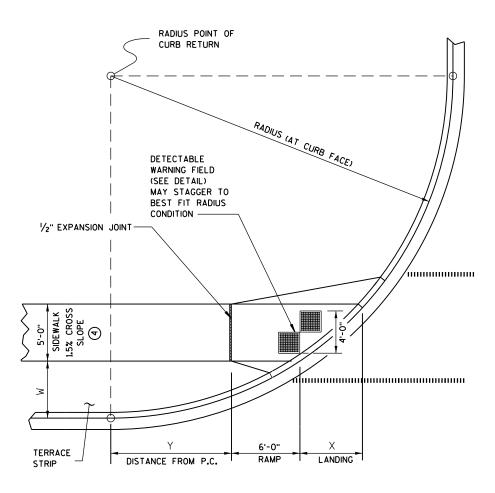
HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS	W =	3' - Ø"	W =	4' - Ø"	W =	5′ - Ø"	W =	6′ - Ø"	W =	7' - Ø"
(AT CURB FACE)	X	Y	X	Υ	Х	Y	X	Y	X	Y
20 FEET	5'-51/2"	4'-61/2"	4'-81/2"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-31/2"	3'-11/2"	9'-21/2"
30 FEET	7'-3¾"	7'-1"	6'-51/2"	8'-11'/2"	5'-91/4"	10'-7"	5'-21/2"	12'-0"	4'-8¾"	13'-3'/4"
40 FEET	8'-91/2"	9'-21/2"	7'-10"	11'-5'/4"	7'-1"	13'-41/2"	6'-5¾"	15'-¾"	5'-111/2"	16'-7'/4"
50 FEET	10'-¾"	11'-3⁄4''	9'-1/4"	13'-7'/4"	8'-21/2"	15'-91/2"	7'-61/2"	17'-9"	6'-11¾"	19'-6'/4"
60 FEET	11'-21/2"	12'-8¾"	10'-¾"	15'-61/2"	9'-21/4"	17'-11¾"	8'-5¾"	20'-1¾"	7'-101/2"	22'-11/2"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION C-C FOR TYPE 4B



CURB RAMP TYPE 4B1
PLAN VIEW

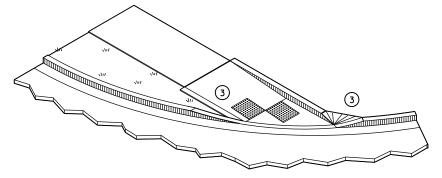
#### **GENERAL NOTES**

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

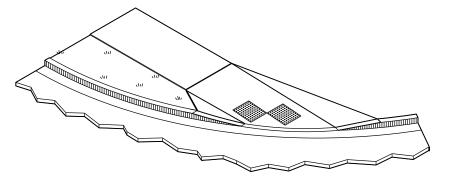
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- (3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.
- (4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4B

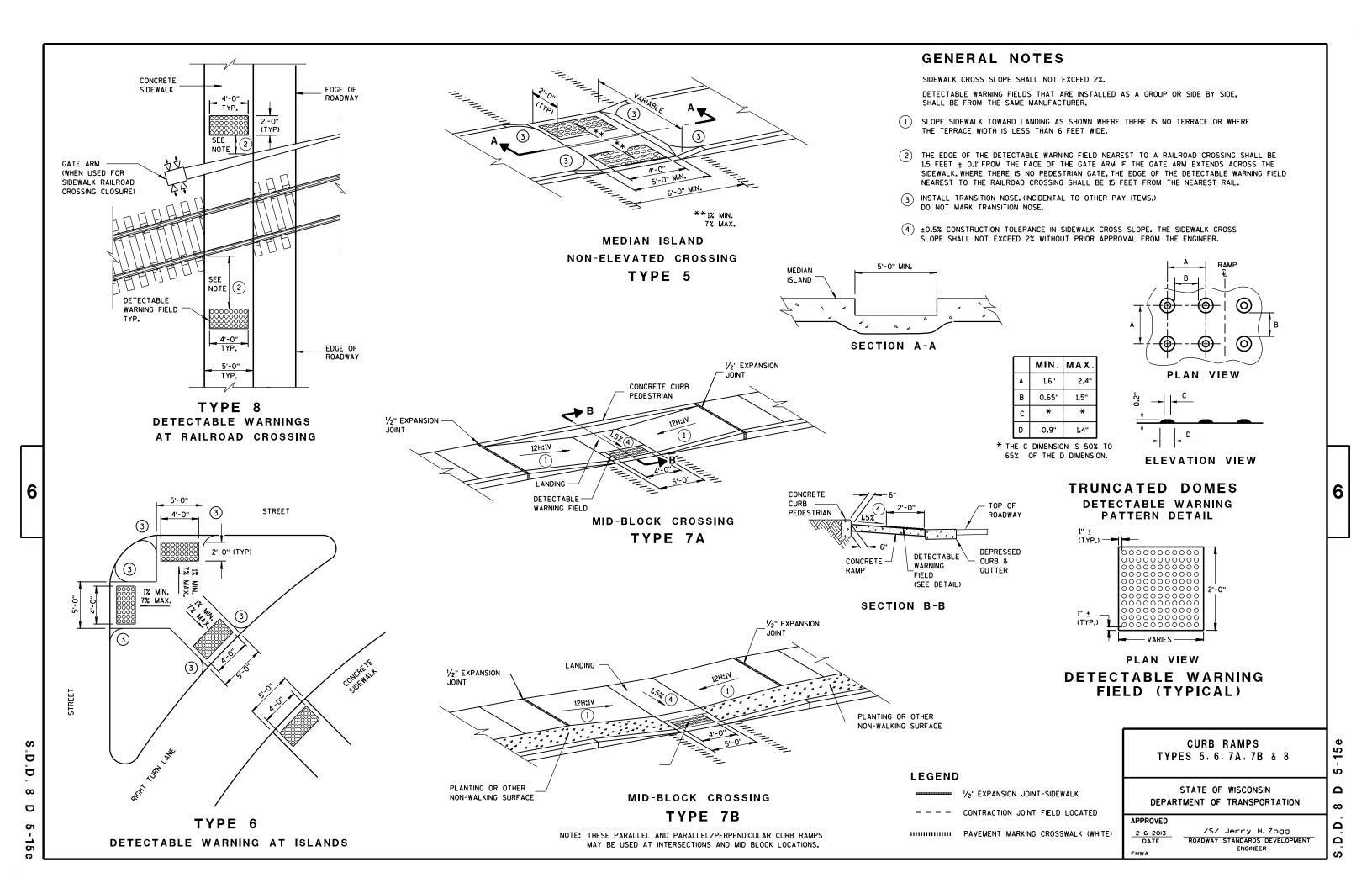


ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS Type 4B and 4B1

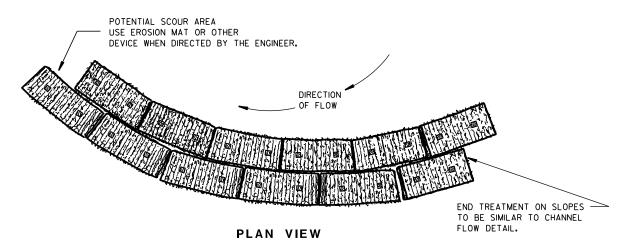
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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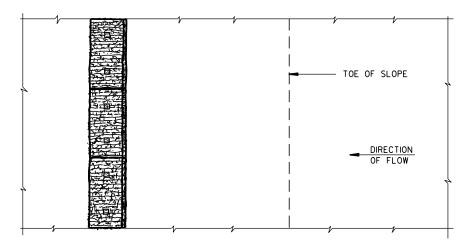


DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

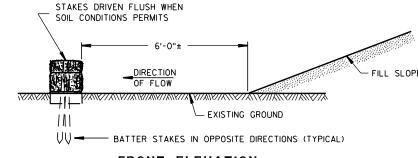
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



#### **PLAN VIEW**



#### FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

**EROSION BALES FOR SHEET FLOW** 

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

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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# TYPICAL APPLICATION OF SILT FENCE

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## PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



#### **GENERAL NOTES**

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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INLET PROTECTION, TYPE A

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

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

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

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



#### INLET PROTECTION, TYPE C (WITH CURB BOX)

#### **INSTALLATION NOTES**

#### TYPE B & C

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

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

#### TYPE D

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

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

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

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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

\* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

END VIEW

SIDE ELEVATION

METAL ENDWALLS

SHOULDER

SLOPE

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

\*MINIMUM

PLAN

END VIEW

END SECTION

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

BAR OR STEEL FABRIC

REINFORCEMENT

LONGITUDINAL SECTION

CONCRETE ENDWALLS

OPTIONAL

1 1/2" R

CULVERT

MEASURED LENGTH

OF CULVERT (TO-

NEAREST FOOT)

DESIGN

REINFORCED

SECTION A-A)

END CORNER PLATES MAY

BE FASTENED TO APRON

THE SURFACES TIGHTLY

TOGETHER

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

TOE PLATE (SAME THICKNESS

AND METAL AS APRON) SHALL

BE FURNISHED WHEN CALLED

FOR ON THE PLANS

FDGE (SFE

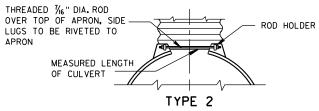
END SECTION CONNECTOR STRAP LUG

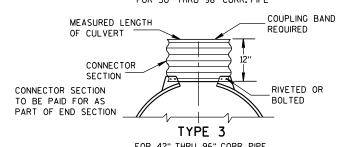
1" WIDE, 12 GA. (0.109"

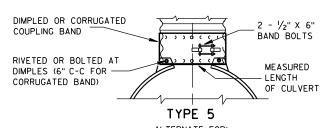
THICK) GALVANIZED STRAP

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

TYPE 1 FOR 12" THRU 24" CORR. PIPE





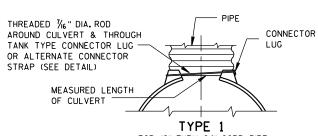


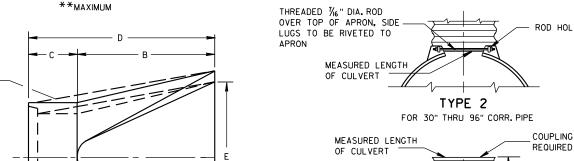
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

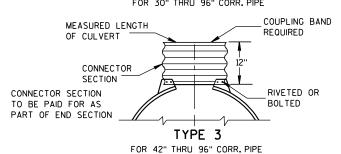
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

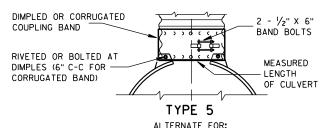
CONNECTION DETAILS 1, 2 OR 5.

# ALTERNATE FOR TYPE 1 CONNECTION







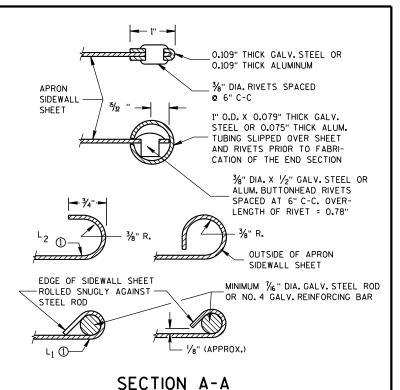


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL

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

CONNECTION DETAILS



# GENERAL NOTES

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

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

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

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

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

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

# APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

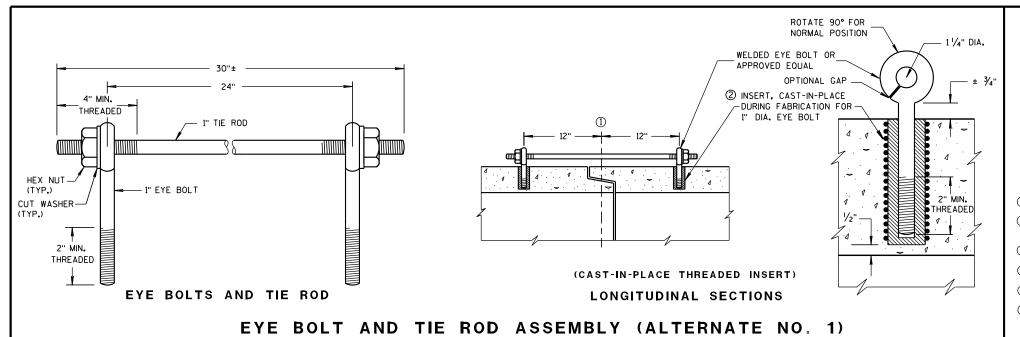
11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

END CORNER

1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

12" C-C MAX. SPACING



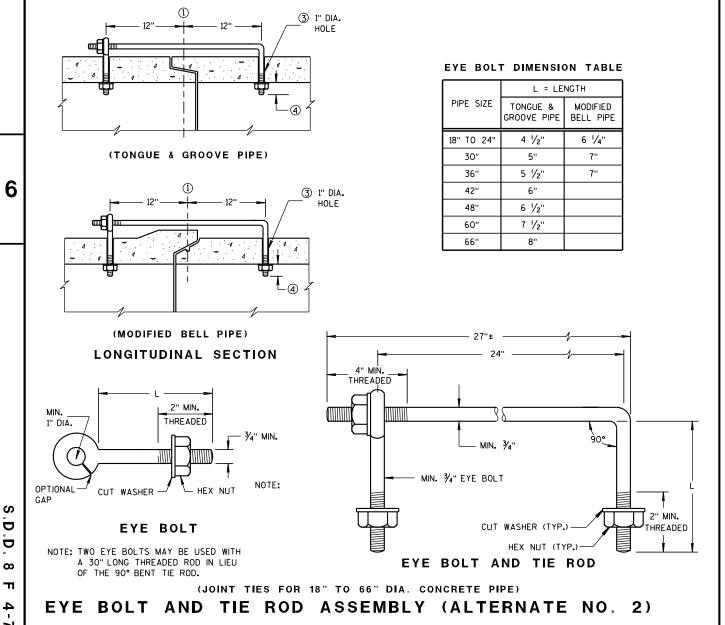
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

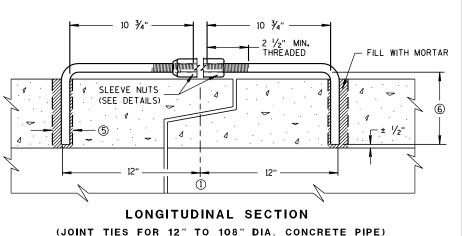
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

- (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.

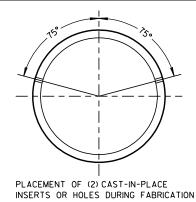


D

# 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

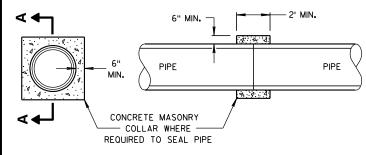


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

#### TRANSVERSE SECTION



SECTION A-A

#### CONCRETE COLLAR DETAIL

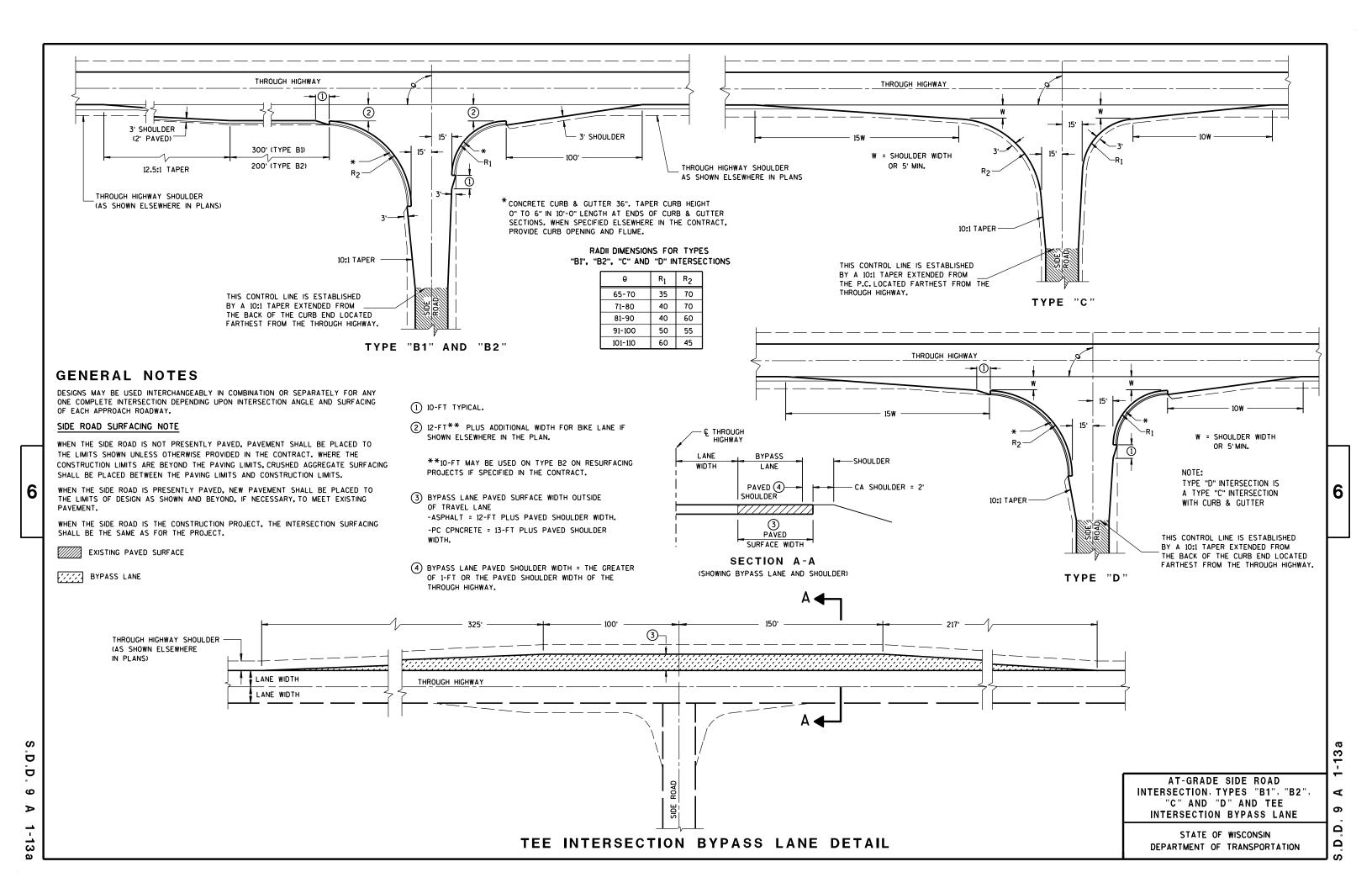
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

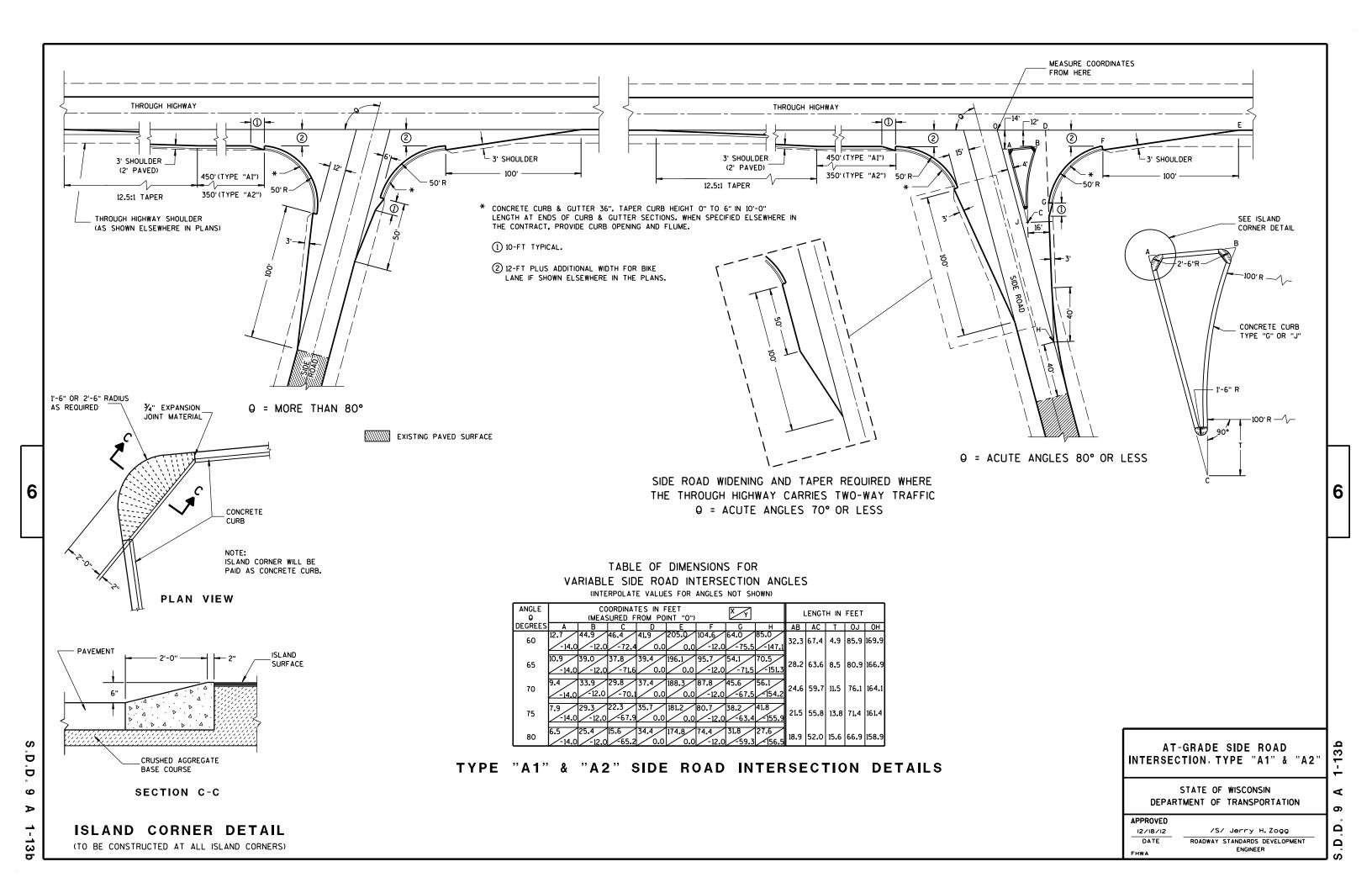
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

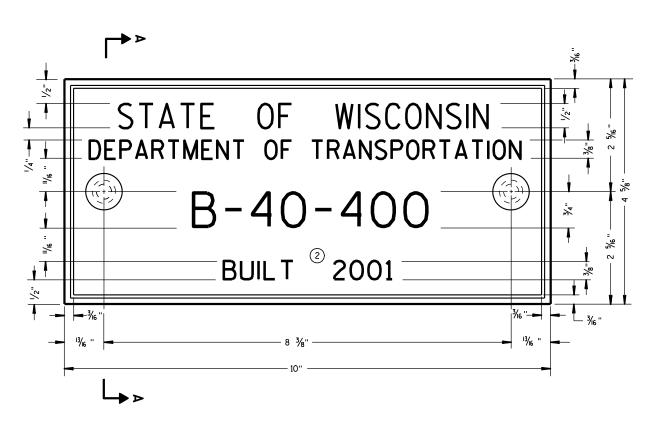
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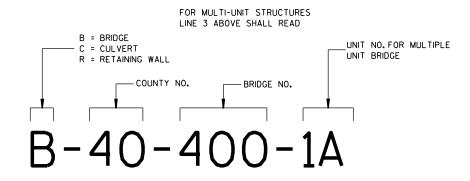






## TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



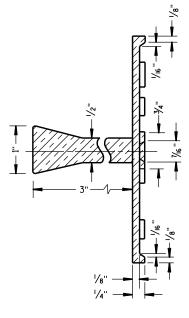
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **GENERAL NOTES**

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

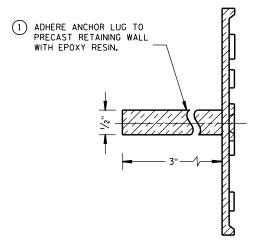
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

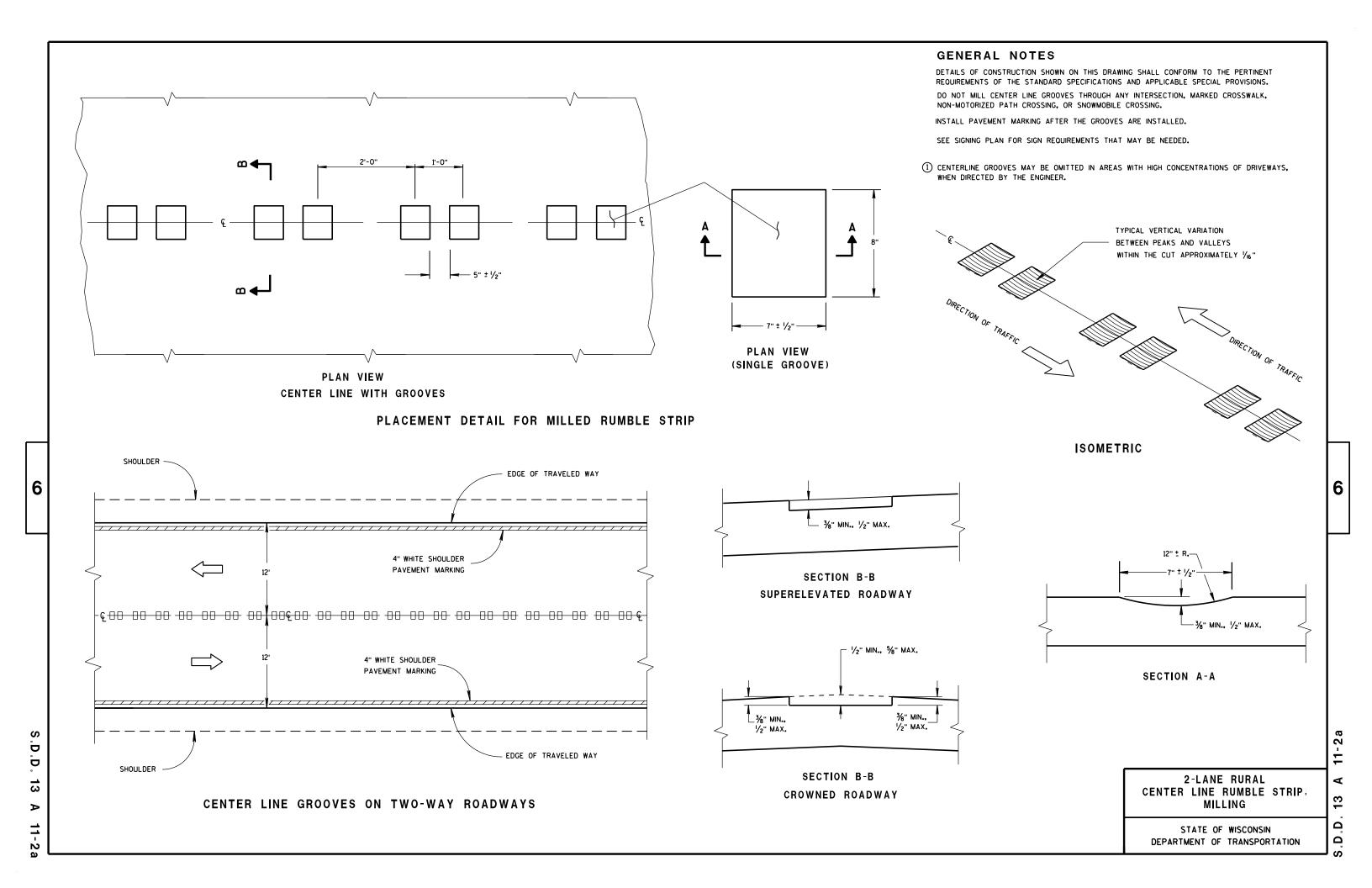
(FOR ATTACHMENT TO PRECAST STRUCTURES)

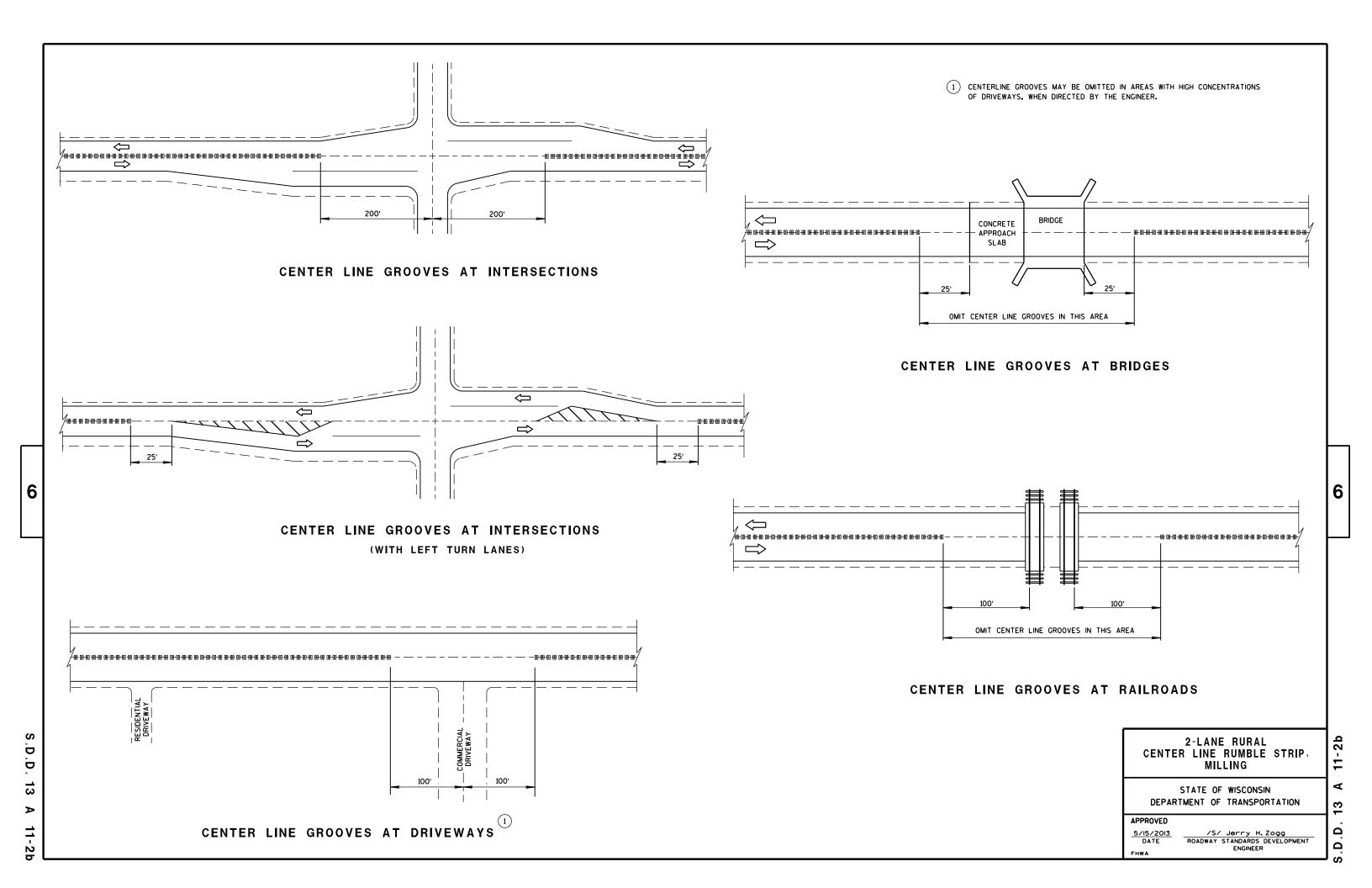
# NAME PLATE (STRUCTURES)

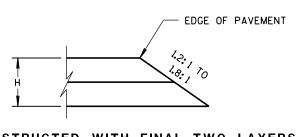
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

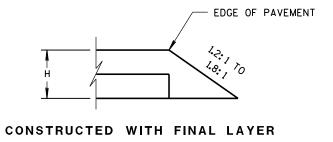
APPROVED

 D. 12 A 3-10





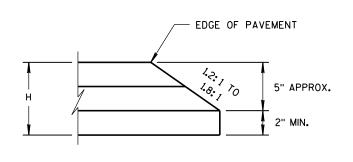


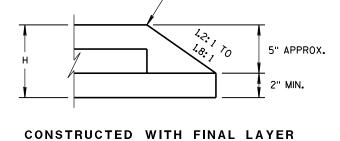


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





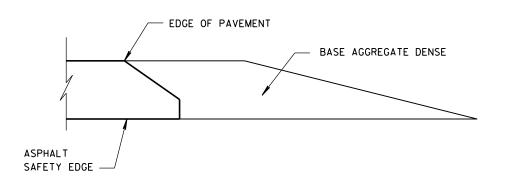
FOR H GREATER THAN 5"

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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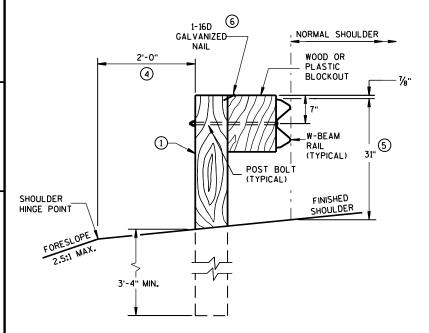
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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

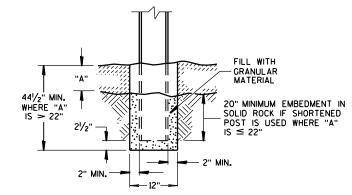
#### **GENERAL NOTES**

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- 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.
- (4) 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** 

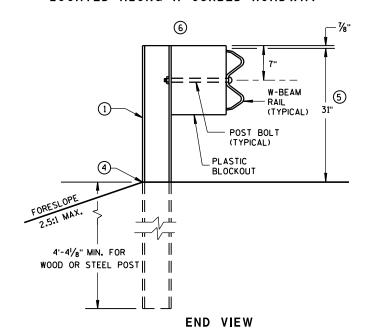
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



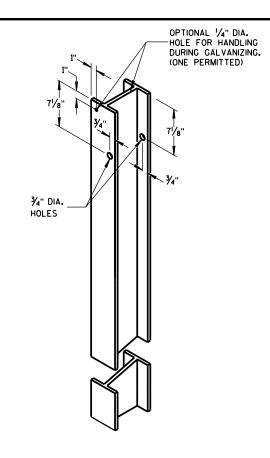
SETTING STEEL OR WOOD POST IN ROCK  $^{\scriptsize{\textcircled{3}}}$ 



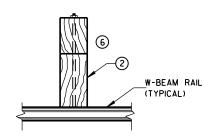
END VIEW
LOCATED ALONG A CURBED ROADWAY



MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



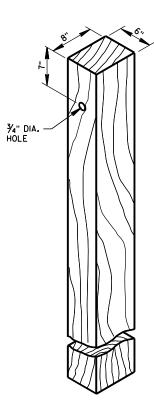
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL  $^{\scriptsize \textcircled{1}}$ 



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

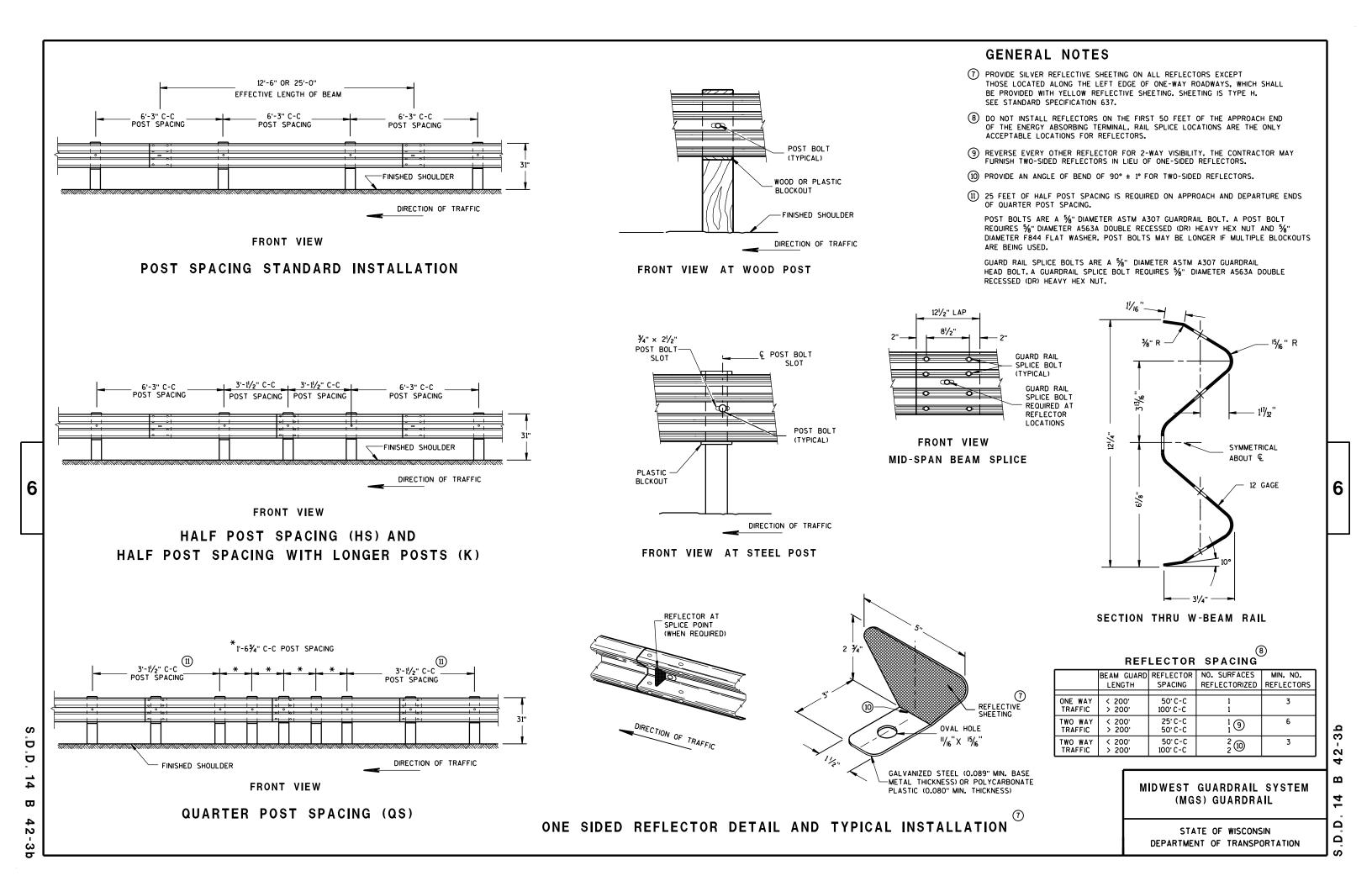
S.D.D. 14 B 4

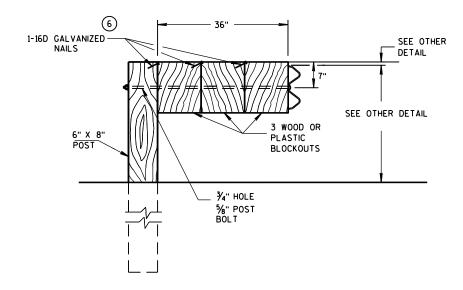
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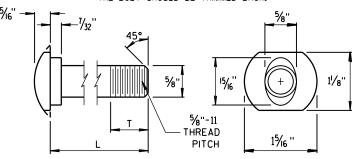


#### DETAIL FOR 36" BLOCKOUT DEPTH

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.

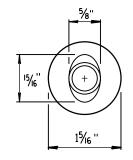
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

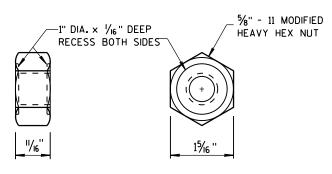


#### POST BOLT TABLE

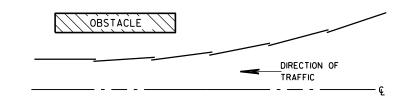
11/8"
437
13/4"
4"
41/16"
4"
41/16"
4"



ALTERNATE BOLT HEAD

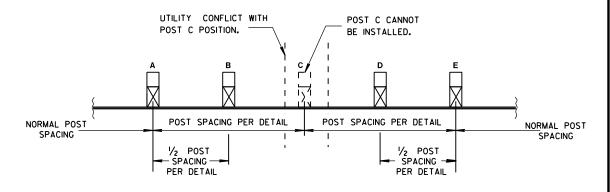


POST BOLT AND RECESS NUT



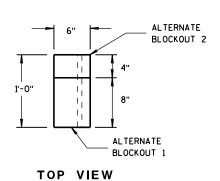
#### **PLAN VIEW**

#### **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

June 2014 /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

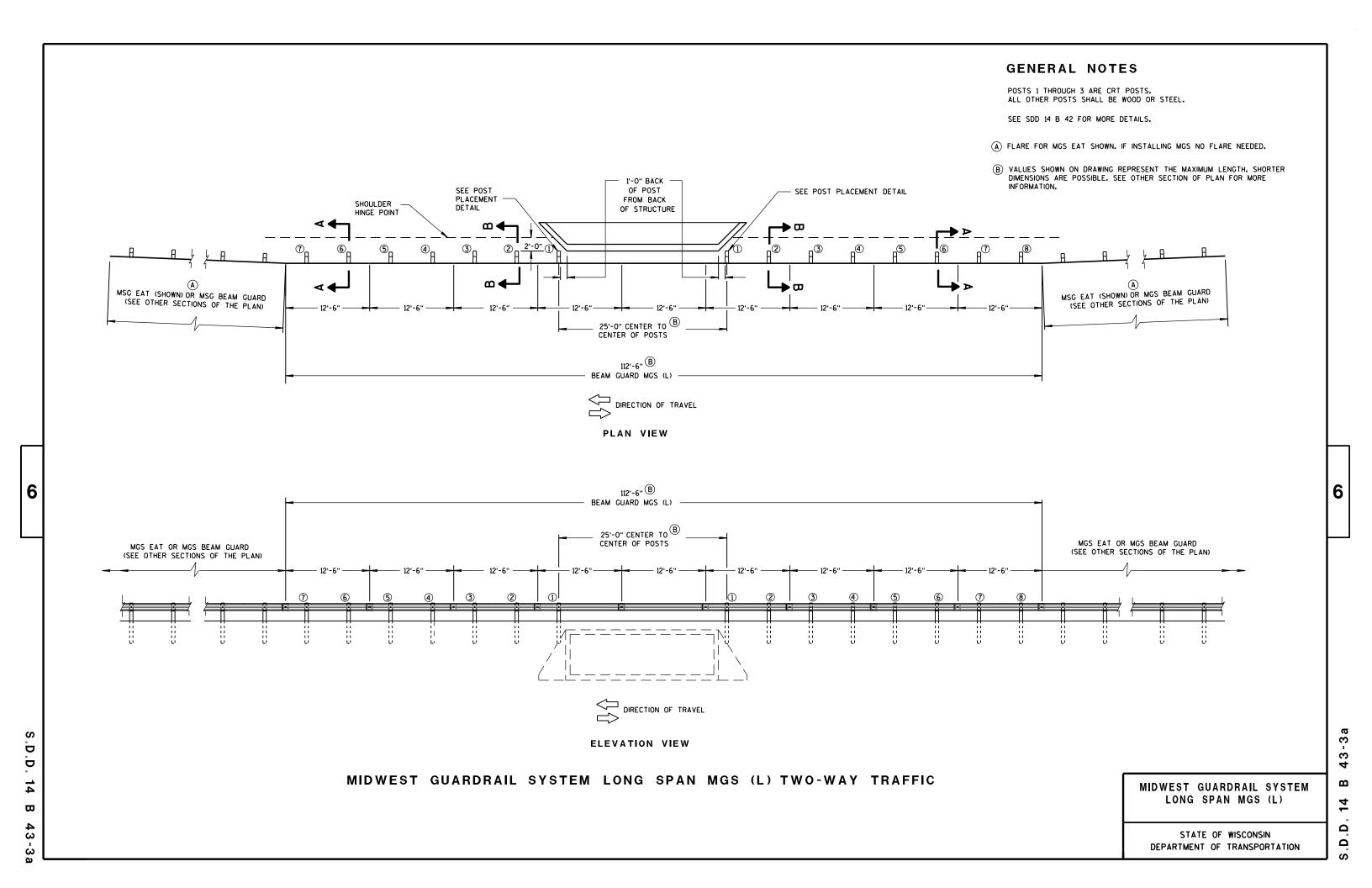
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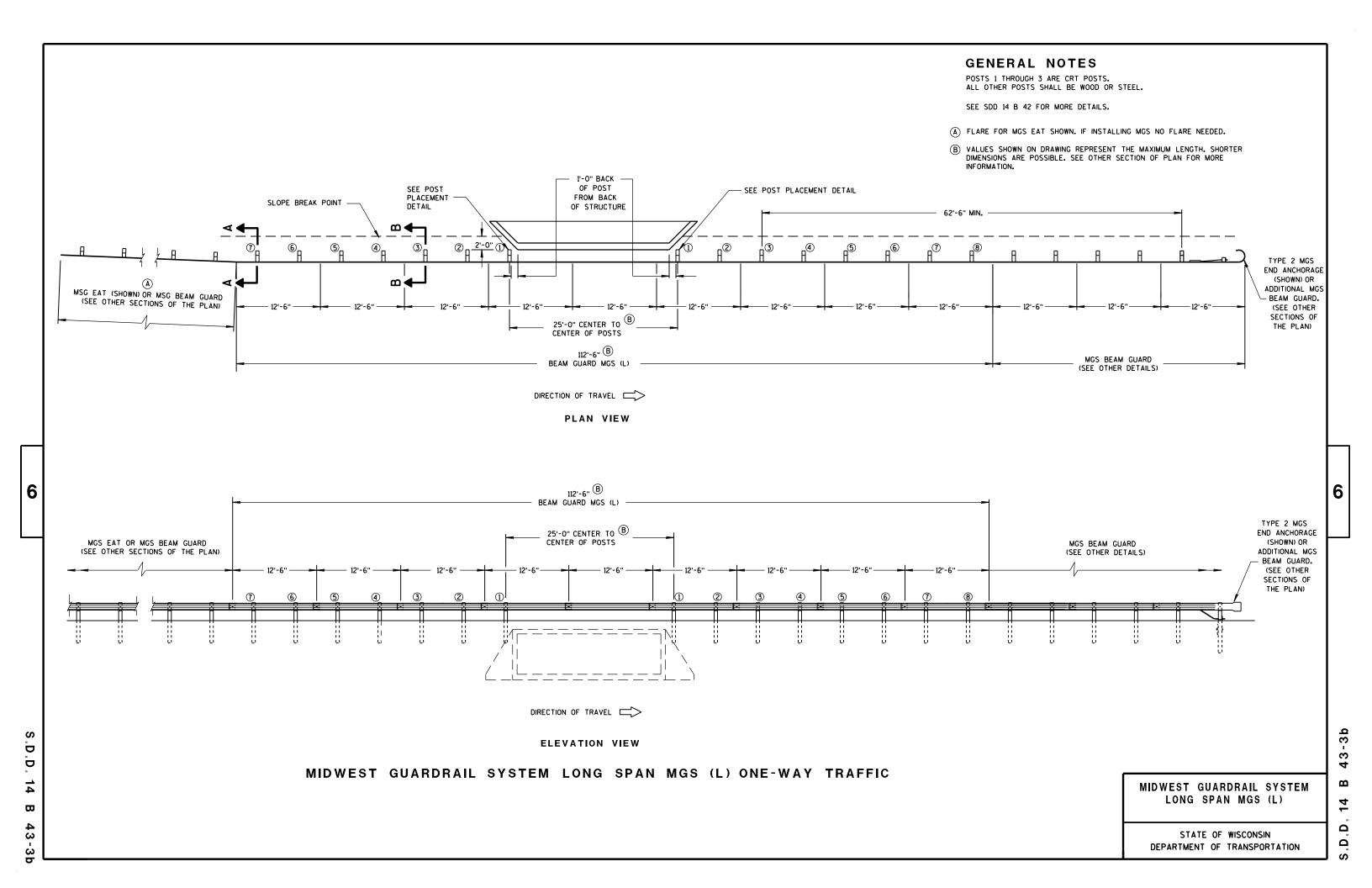
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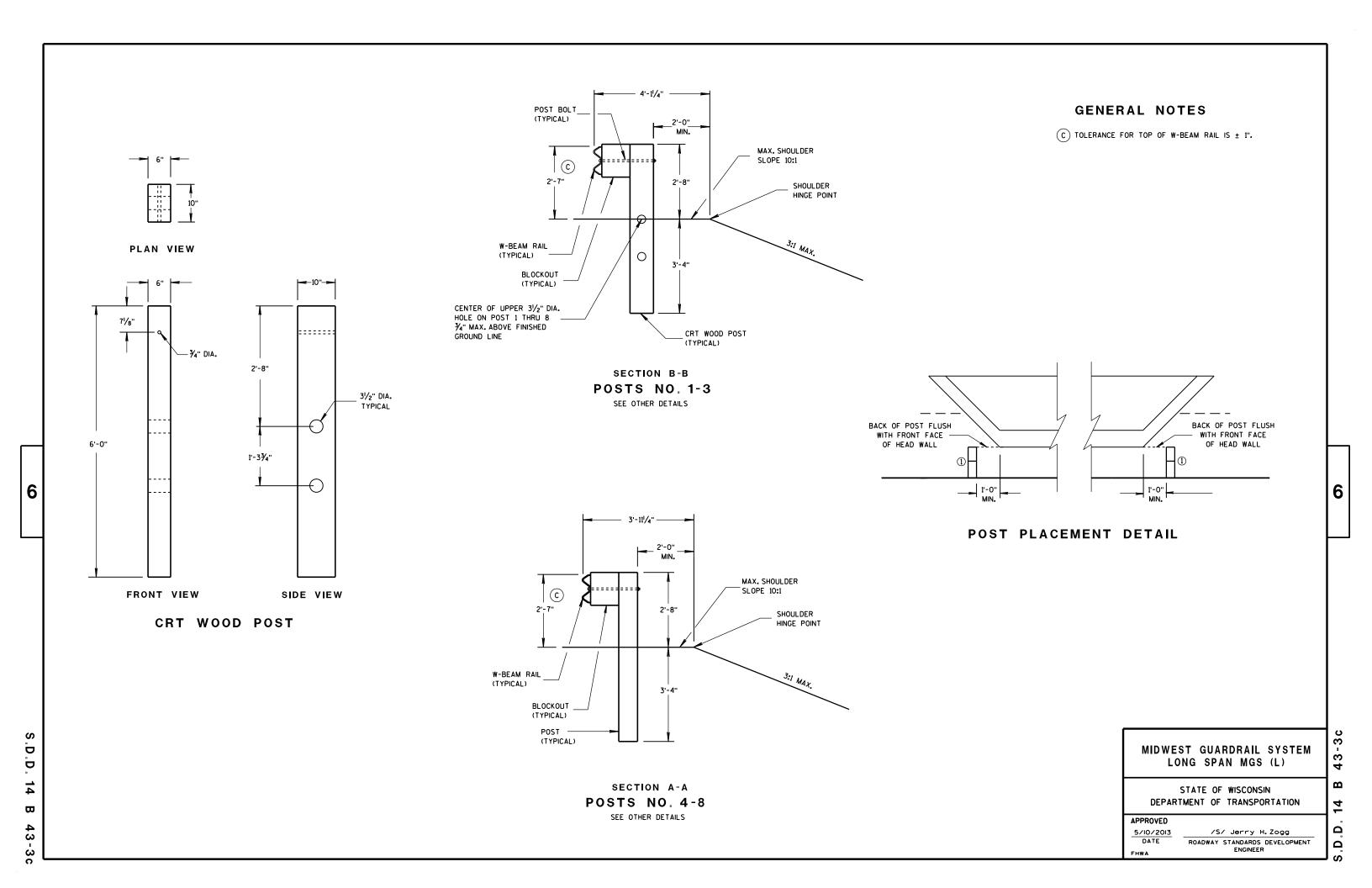
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# SECTION A-A SECTION B-B

9 H

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

44-2b

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#### BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

# ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



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 SUPPORTS.

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

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

"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, 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". (30" X 15" 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".

- (1) 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
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 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 SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

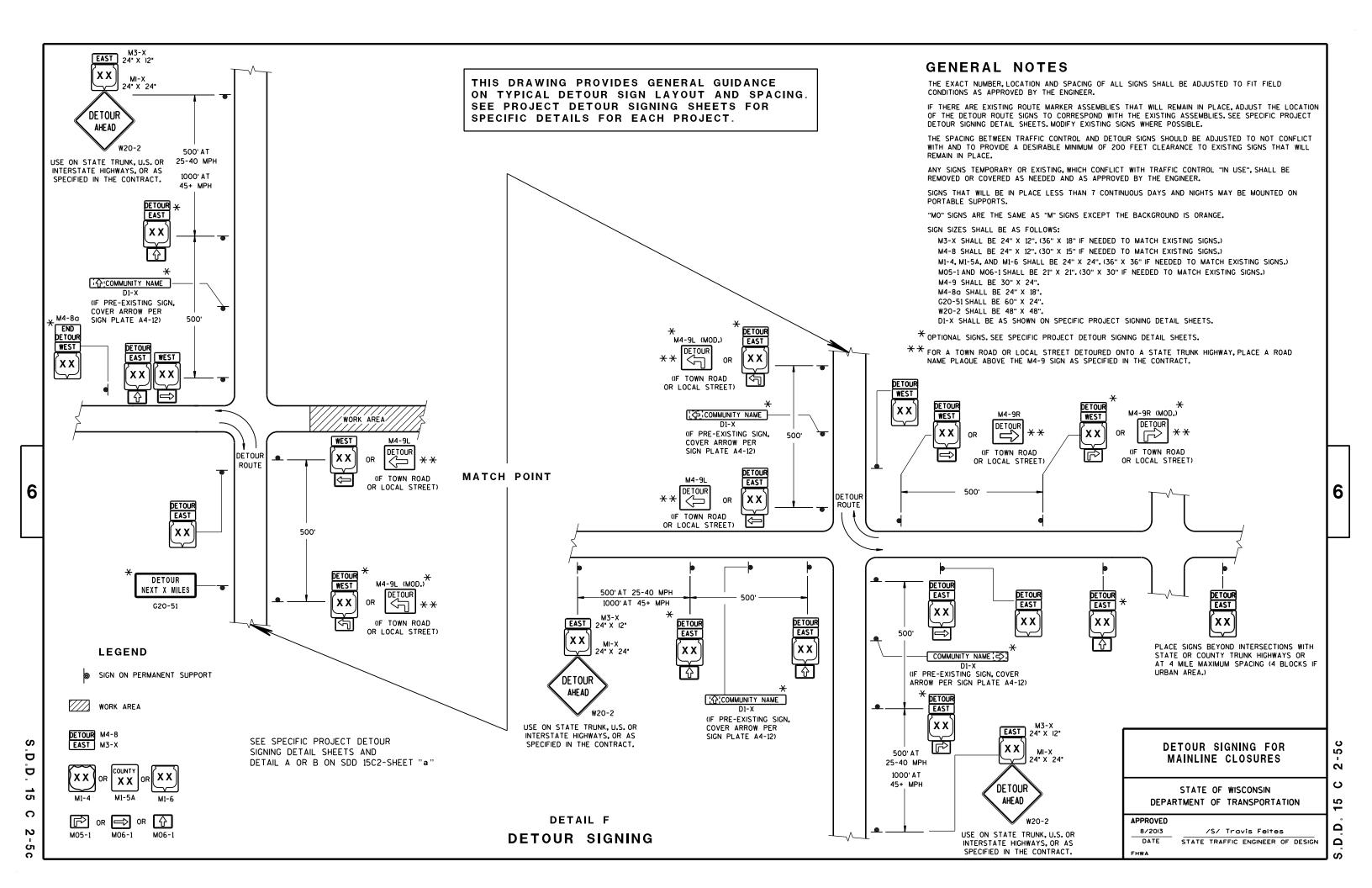
#### BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

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#### TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

#### GENERAL NOTES

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

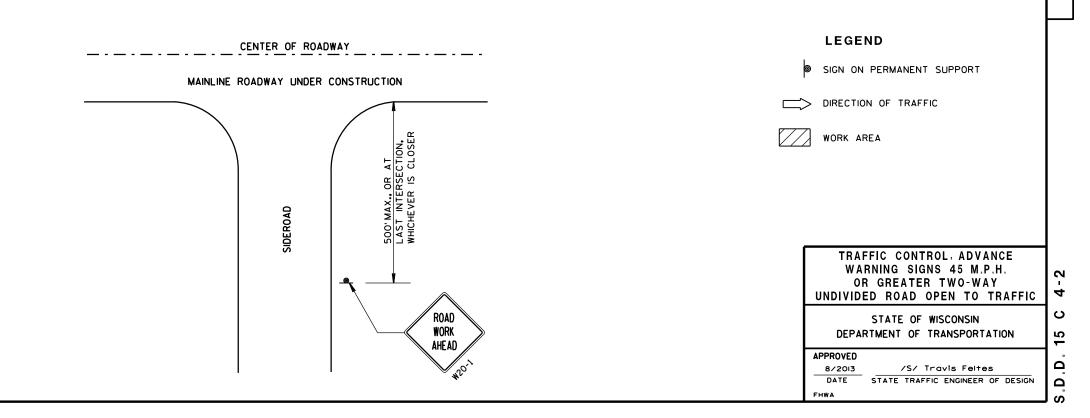
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

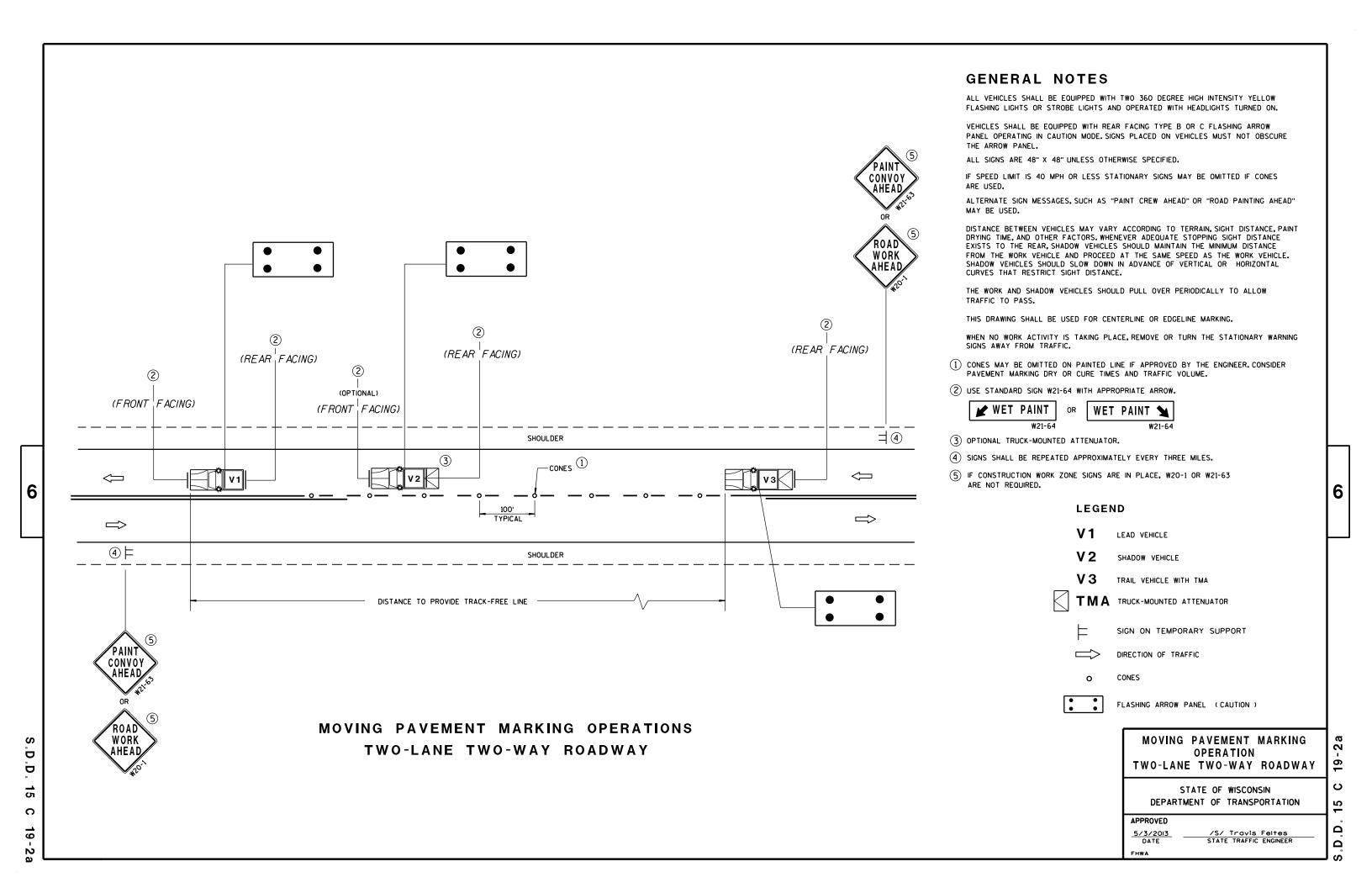
- \* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- \* PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

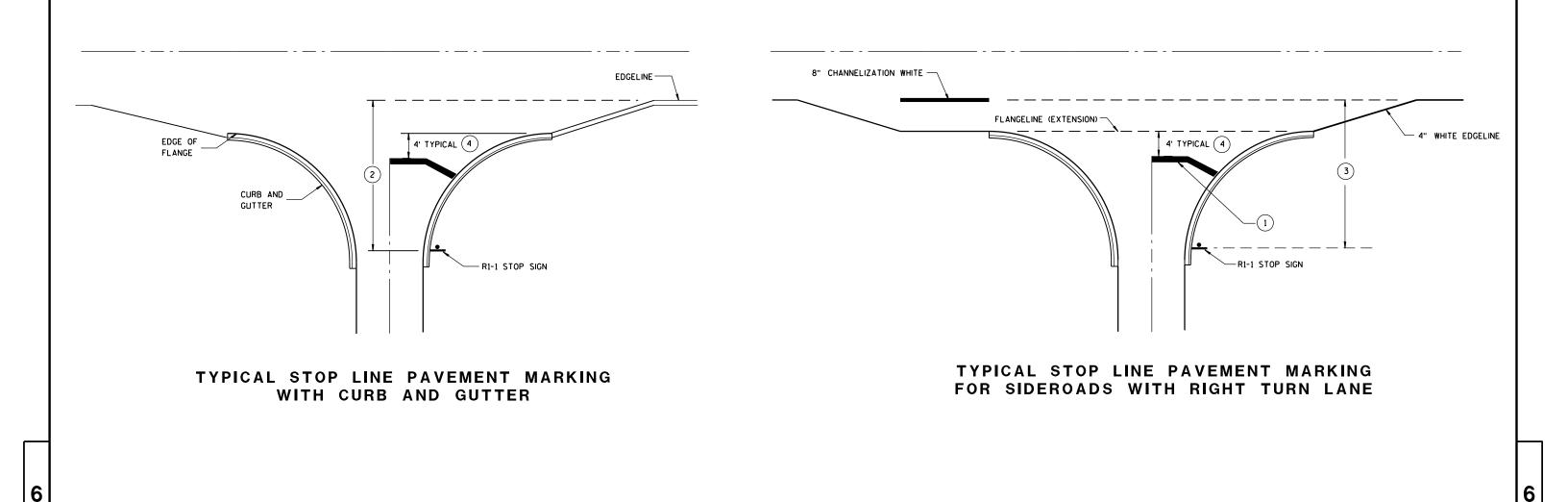


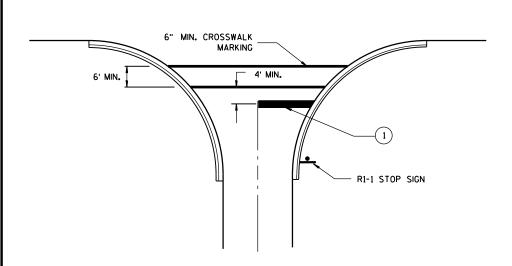




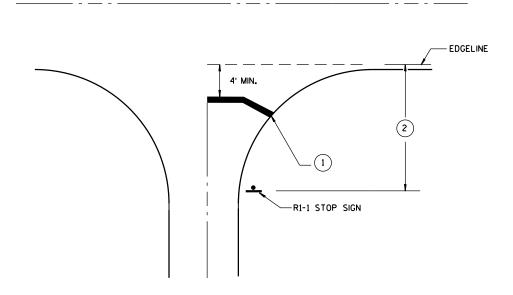








TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



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.

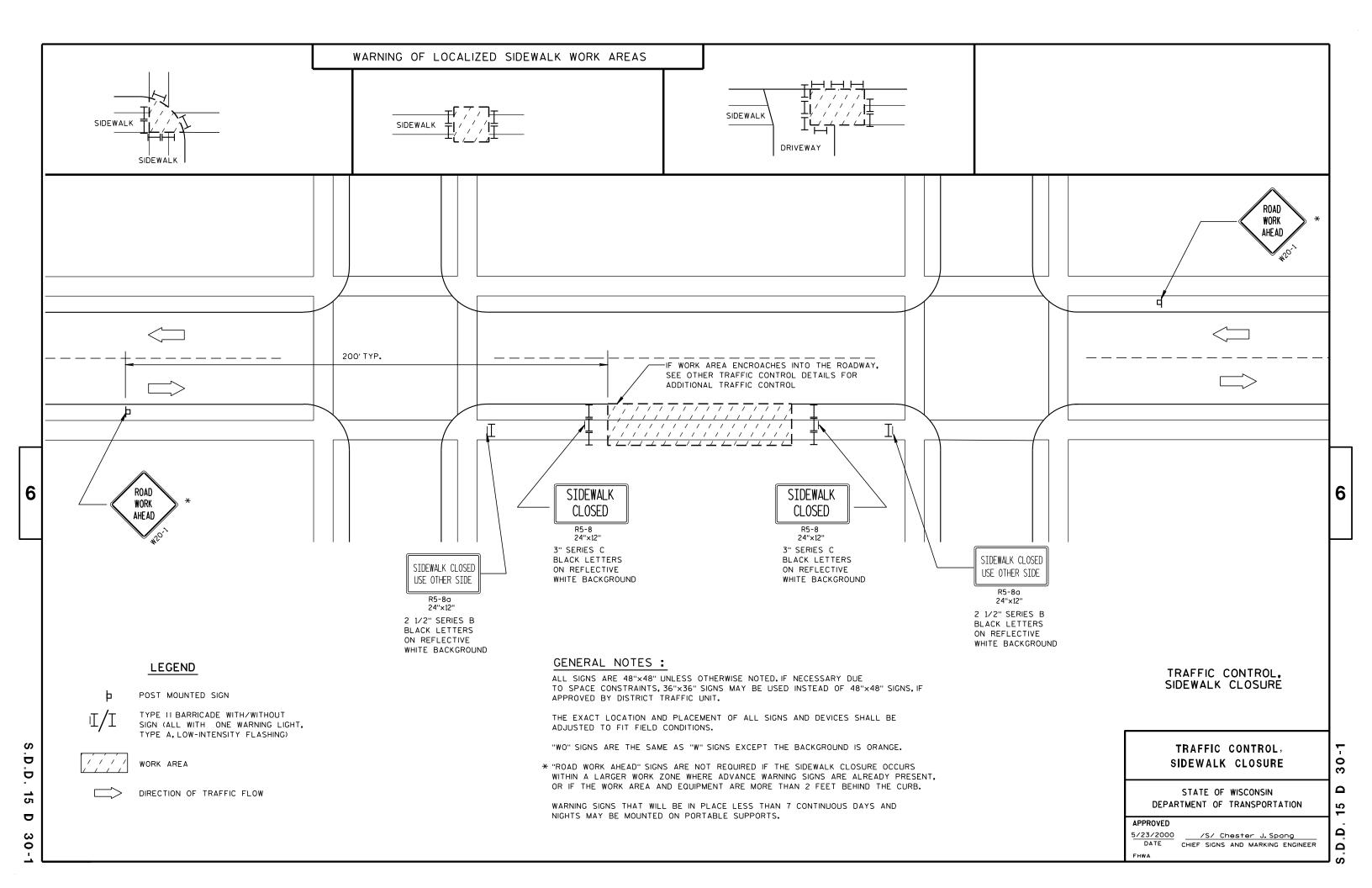
# STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
4/30/2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER
FHWA	

.D.D. 15 C 33-1

S.D.D.

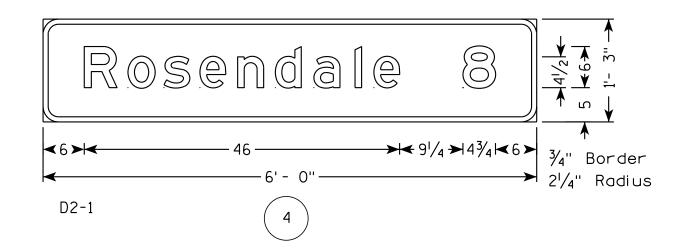


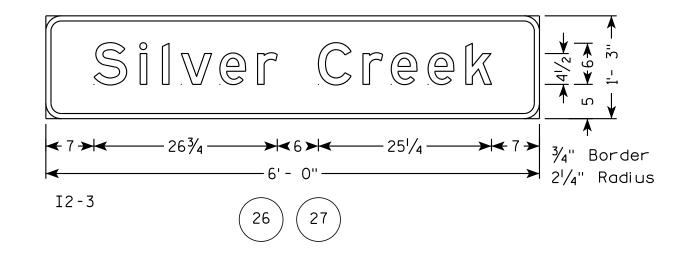
1. All SignTsype II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

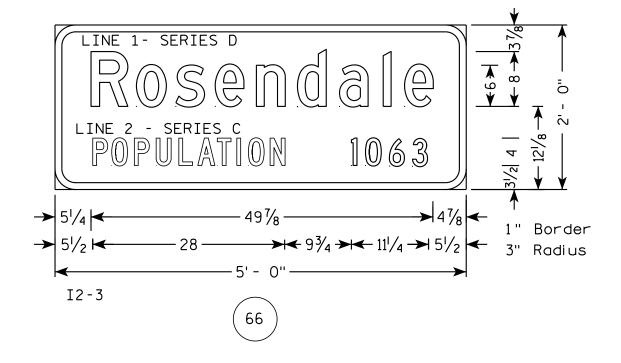
2. Color:

Background - GREEN Message - WHITE

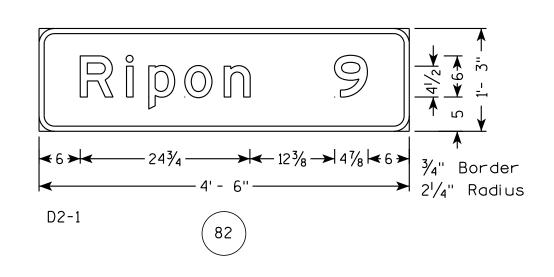
3. Message Series - E except as Shown







HWY:STH 23



COUNTY: FOND DU LAC

PLOT BY : dotj1f

PERMANENT SIGNING

PLOT NAME:

PLOT SCALE : 14:1

WISDOT/CADDS SHEET 42

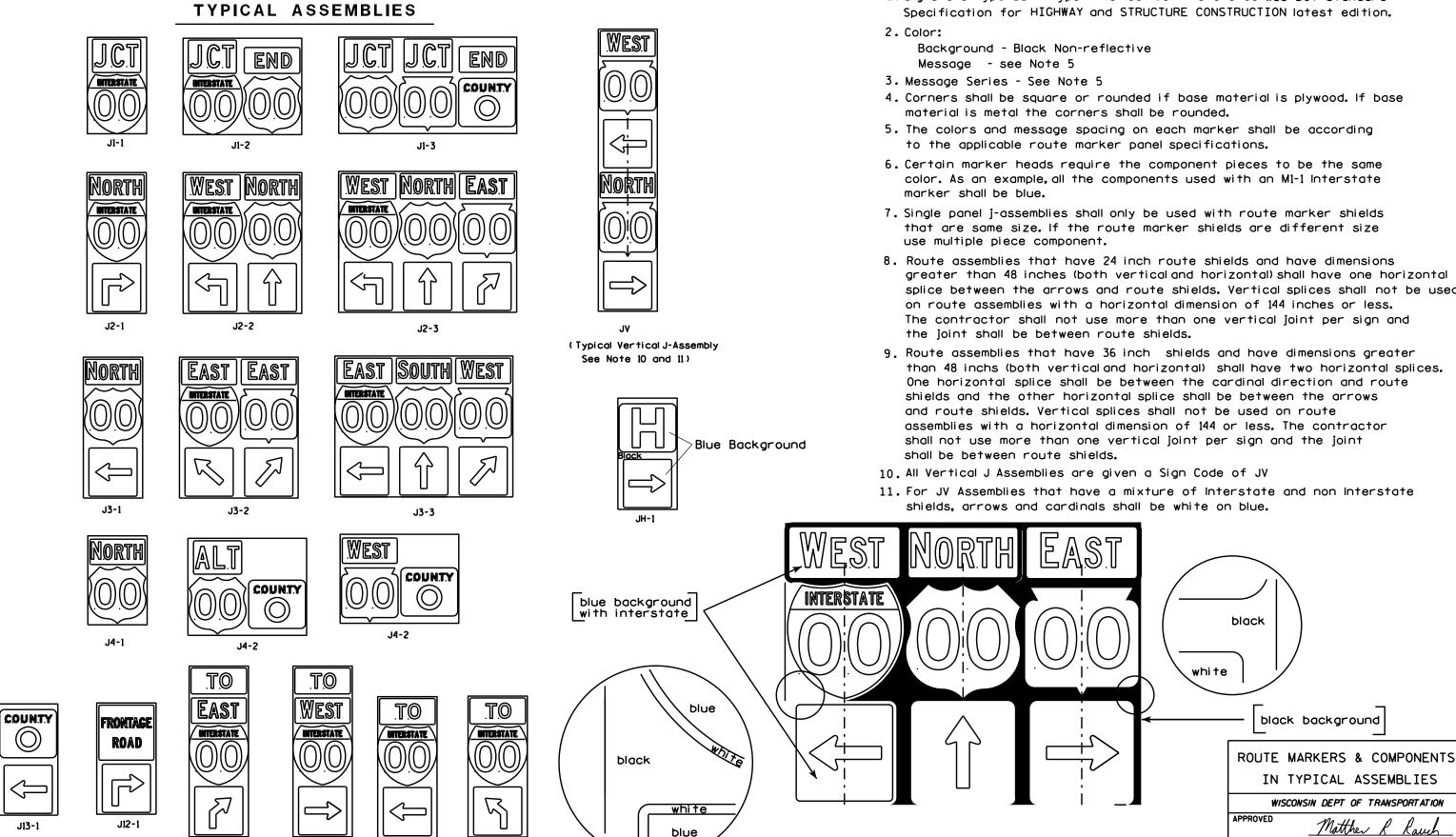
SHEET NO:

PLOT DATE: 26-NOV-2013 16:54

PROJECT NO: 1430-15-71

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

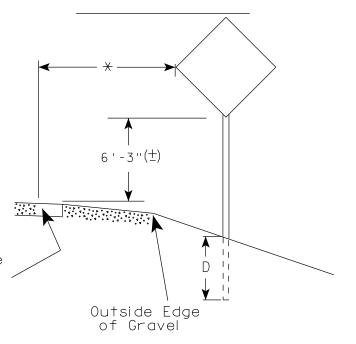
DATE 2/06/14

SHEET NO:

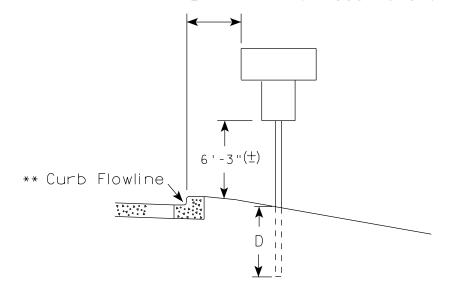
# URBAN ARFA

2' Min - 4' Max (See Note 6) 7'-3"(士) \*\* Curb Flowline. White Edgeline Location

RURAL AREA (See Note 2)



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



5'-3"(生) A POLICE AND A POL  $D^{-1}$ Outside Edae of Gravel

White Edgeline Location

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

HWY:

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.

PLOT DATE: 12-NOV-2014 14:03

#### GENERAL NOTES

- 1. Signs wider than 4 feet, 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" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ per urban or rural detail respectively.
- 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

D
(Min)
4'
5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 11/12/14

PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43.DGN COUNTY:

PLOT BY: mscsja

PLOT NAME :

WISDOT/CADDS SHEET 42

PLOT SCALE: 99.237937:1.000000



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

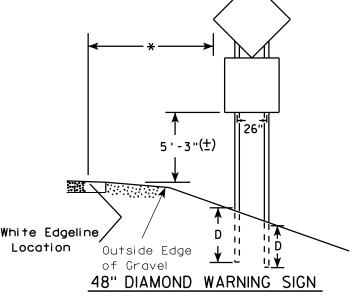
## GENERAL NOTES

- 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. Minimum mounting height for J assemblies (A2-1S) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 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" (±) 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 or less than 20 S.F. in area.

#### URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) \*\* Curb **\*\*\*\***\ Flowline D **7000** White Edgeline

# 2' Min - 4' Max (See Note 6) 6'-3"(±) Curb Flowline. 48" DIAMOND WARNING SIGN

D 11



COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED	
	L	E
<del>* * *</del>	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR										
L E										
Greater than 120" less than 168"	12"									

HWY:

White Edgeline,

Location

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

Location

Outside Edae

of Gravel

#### POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

PLATE NO. A4-4.13

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 12-NOV-2014 14:01

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

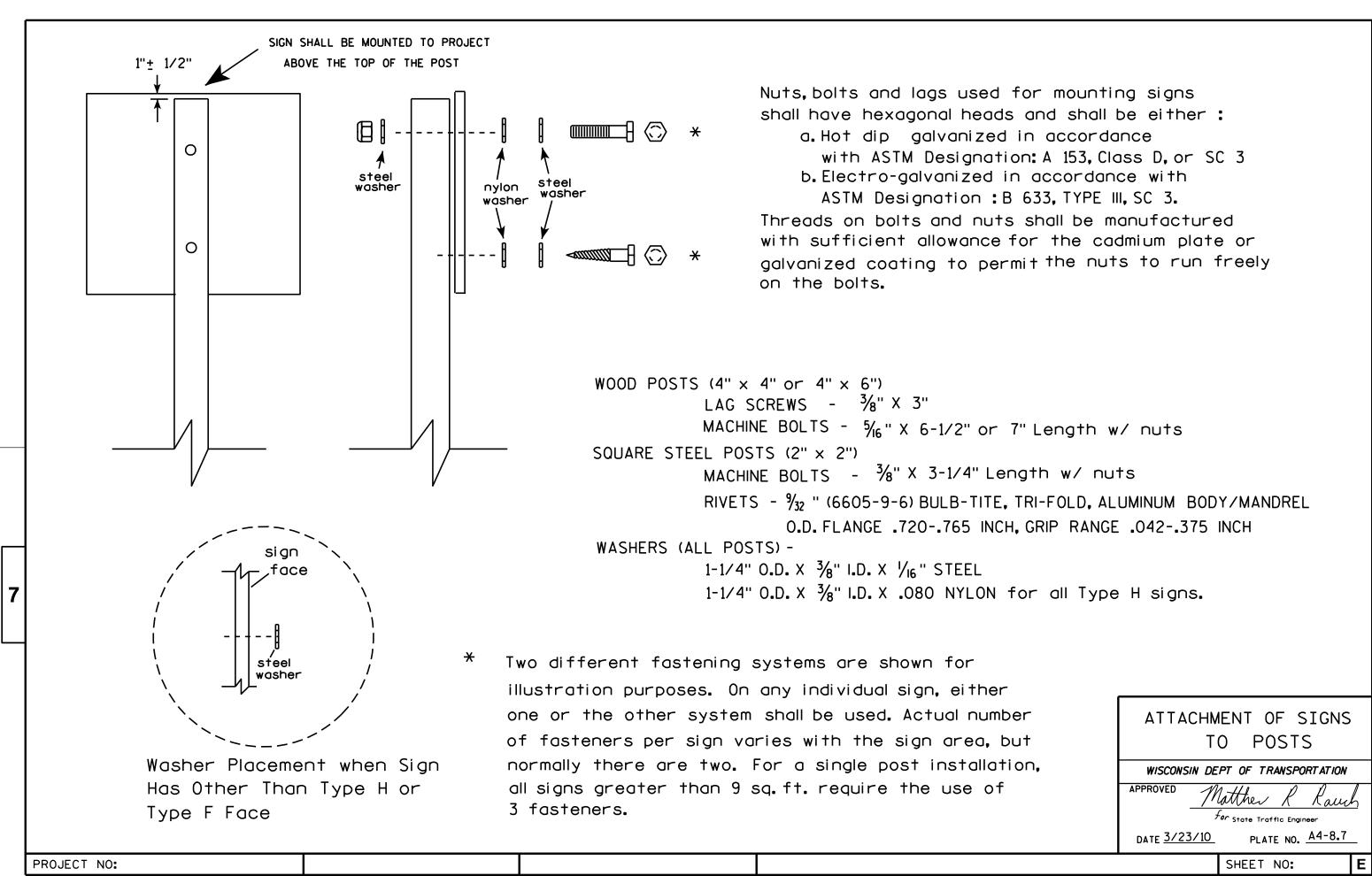
SHEET NO:

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 11/12/14





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



E → SPONSOR A F Y G Z F Z A F X A

HWY:

Background Colors of Symbol\*

**₽** 4

\* VARIES

White Black Green Orange

 $^*$  $\!\!\!/_4$ " Black Border between each color of rainbow and border of rainbow

#### I 2 36 | 1 1/2 | 1/2 5/8 3 1/2 2 7/8 | 2 1/8 | 11 1/4 | 11 1/8 | 9 3/8 | 1 1/4 3/4 12 % 7 1/2 30 7.5 3 4 5

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED for State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\I5556.DGN

PROJECT NO:

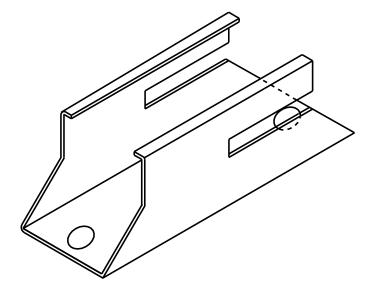
PLOT DATE: 27-APR-2011 10:05

PLOT BY: mscj9h

PLOT NAME :

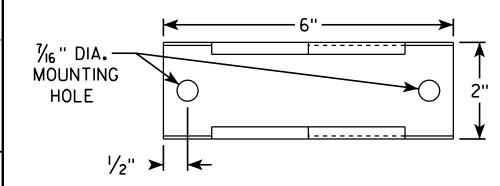
PLOT SCALE: 7.945391:1.000000

# ISOMETRIC VIEW

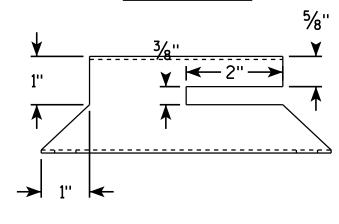


# TOP VIEW

HWY:



# SIDE VIEW

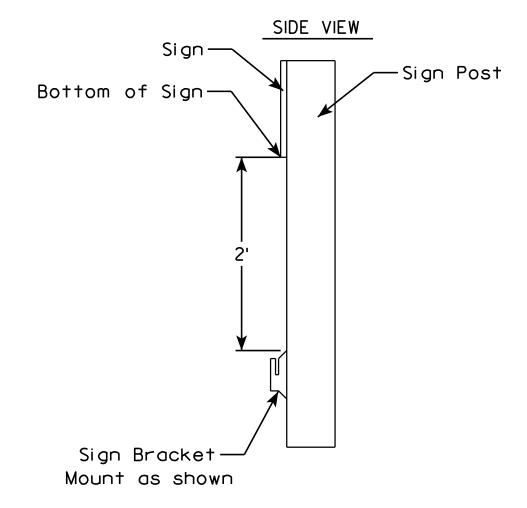


# END VIEW **←** 2" →

COUNTY:

# NOTES

- 1. 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.



ROLLUP SIGN BRACKET I55-56B

WISCONSIN DEPT OF TRANSPORTATION APPROVED

SHEET NO:

for State Traffic Engineer DATE 2/5/10 PLATE NO. 155-56B.1

PLOT NAME :

PLOT SCALE: 1.986348:1.000000

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\I5556B.DGN

PROJECT NO:

PLOT DATE: 01-MAR-2010 15:34

PLOT BY : ditjph

#### NOTES

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

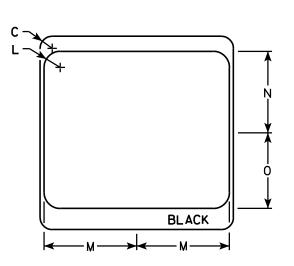
Background - White & Black - See Note 7 Message - Black

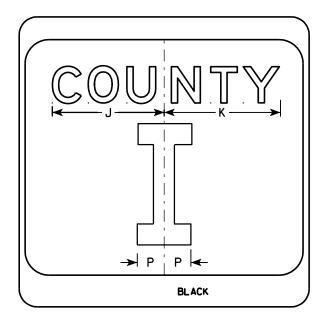
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

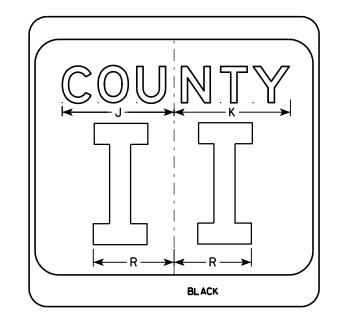
  Message Series D for 2 letters unless
  message is too big then Series C.

  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







PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Areg sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	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 3/8		10									9.0
5	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
DDA	JECT	NO.					Ты	VY:					COUN	ITV.													
FRU	JECI	INO.					1 11	V I .					LOON														

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PROVED

Matthew Rauch

Forstate Traffic Engineer

NATE 9/27/11 PLATE NO. M1-5A.8

DATE 9/27/11

SHEET NO:

**BLACK** 

M1-5A

# NOTES

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

Background - White & Black - See Note 6 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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
- 6. Permanent Signs
  Background Type H Reflective
  Detour or temporary Signs
  Background Reflective

BLACK	<b>↑</b> G <b>→ ↑</b> F <b>→ → ↑ → → → → → → → → → →</b>
Metric equivalent for this sign is:	

HWY:

900 mm X 900 mm

5 900 mm X 900 mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	w	Х	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0	<b>.</b> 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	<b>.</b> 81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	<b>.</b> 81
ب			- / -	<u> </u>		1 .0	74	74	78	78	12 /8	/8	- /2	_ /8	10 /6				<u> </u>			1	<u> </u>				J.0	_

COUNTY:

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

The state Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

SHEET NO:

\_\_\_\_

PLOT NAME :



- 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

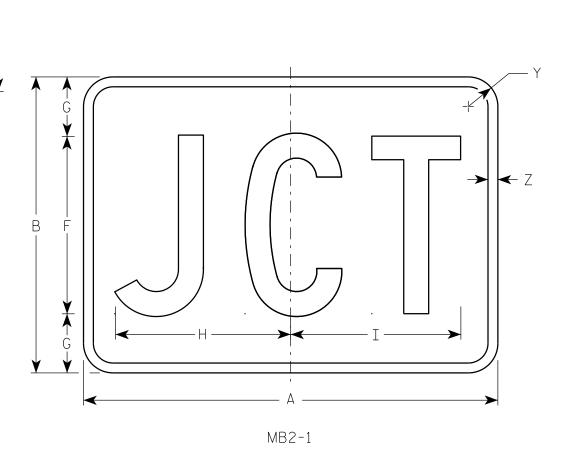
Message - Green

MN2-1 Background - Brown

Message - White

MR2-1 Background - Brown

Message - Yellow



7

SIZE G Н Ν 0 Α 1 1/8 3/8 8 1/8 8 5/8 1 1/2 1/2 3/8 21 15 9 2.20 3 30 21 1 1/8 3/8 3/8 13 12  $\frac{7}{8}$  12  $\frac{3}{8}$  $1 \frac{1}{2}$ 1/2 4.40 12  $\frac{7}{8}$  12  $\frac{3}{8}$ 4 30 21 1 1/8 3/8 3/8 13 1 1/2 1/24.40 12  $\frac{7}{8}$  12  $\frac{3}{8}$ 5 3/8 3/8 30 21 1 1/8 13 4 1 1/2 1/2 4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauch

DATE <u>6/30/14</u>

PLATE NO. M2-1.11

SHEET NO:

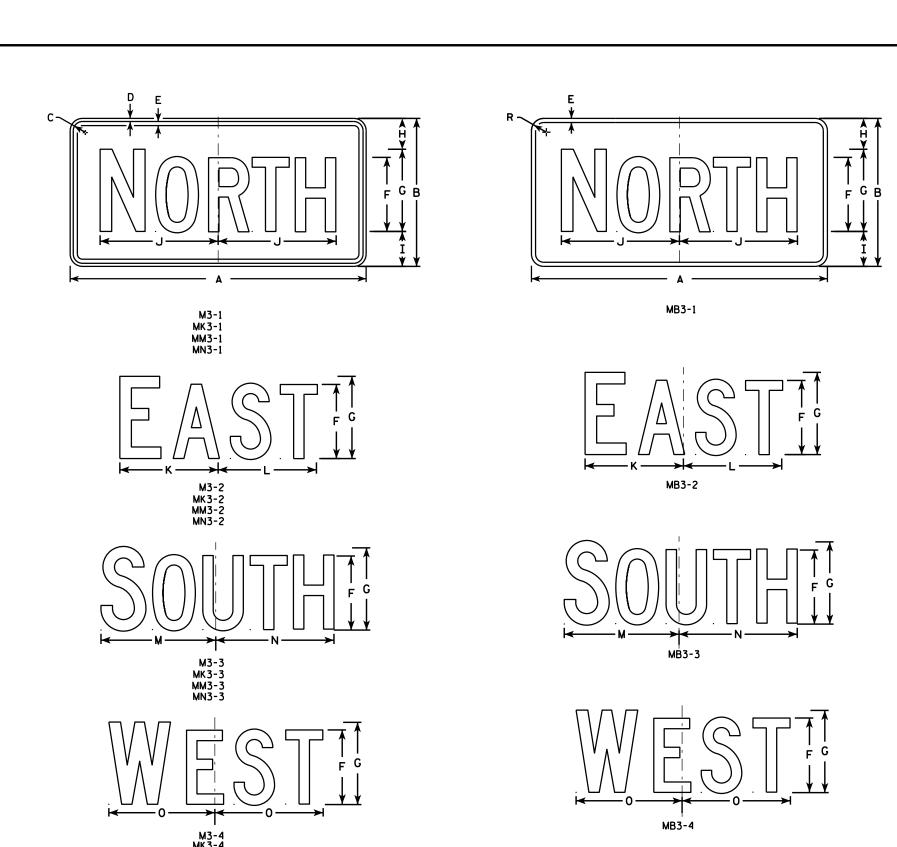
PROJECT NO:

M2-1

MK2-1 MM2-1

MN2-1 MR2-1

HWY:



- 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

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

					MN3-4																					
SIZE	Α	В	С	D	E	F	G	Н	I	J K	L	М	N	0	Р	0	R	S	T	U	v	W	Х	Y	Z	Areq sq. ft.
SIZE 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

Matther & Rauch

For State Traffic Engineer

DATE 6/30/14 PLATE NO. M3-1.13

SHEET NO:

07.001/5...14.675054.4.000000

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\M31.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-JUN-2014 12:53

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 11.675051:1.000000

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

Background - Orange Message - Black

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

	G
	F B G G G G G G G G G G G G G G G G G G
A M4 - 8	<b>Y</b>

Α С E F G H I J S Х Z D 0 10 10 1/4 1 1/8 3/8 3/8 24 2.0 3 36 1 1/8 3/8 1/2 4 1/2 14 5/8 14 1/2 4.5 4 5

COUNTY:

STANDARD SIGN M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :

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 B
- 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.

 $D \longrightarrow$ Н M4-8A

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	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 ¾																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

COUNTY:

STANDARD SIGN M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther For State Traffic Engineer

SHEET NO:

DATE 3/9/11

PLATE NO. M4-8A.2

PLOT SCALE: 3.972696:1.000000

WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\M48A.DGN

HWY:

PROJECT NO:

PLOT DATE: 09-MAR-2011 10:29

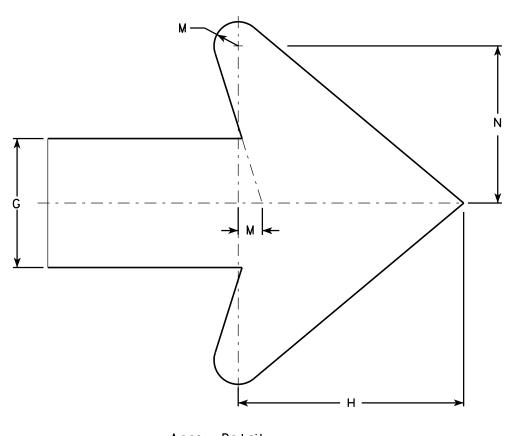
PLOT BY: mscj9h

PLOT NAME :

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

Background - Orange Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	Α	В	С	D	Ε	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																											
2	30	24	1 1/8	3∕8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
3	30	24	1 1/8	3∕8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 %	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0

COUNTY:

M4-9R

M4-9 R & L WISCONSIN DEPT OF TRANSPORTATION

STANDARD SIGN

APPROVED

Matthew R *for* State Traffic Engineer

PLATE NO. M4-9R.4 DATE 3/9/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\M49R.DCN

PROJECT NO:

HWY:

PLOT DATE: 09-MAR-2011 11:17

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 5.959043:1.000000

- Signs are Type II See Note 4 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 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. M5-1 and M5-2 Background White Type H Reflective Message Black
  - MB5-1 and MB5-2 Background Blue

    Message White Type H Reflective
  - MG5-1 and MG5-2 Background Green

    Message White Type H Reflective
  - MK5-1 and MK5-2 Background Green
    - Message White Type H Reflective
  - MM5-1 and MM5-2 Background White Type H Reflective Message Green
- MN5-1 and MN5-2 Background Brown

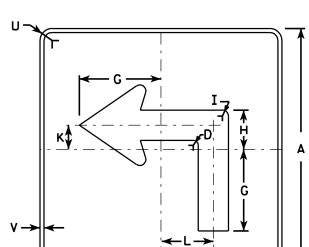
Message - White - Type H Reflective

- M05-1 and M05-2 Background Orange Type F Reflective Message - Black
- MP5-1 and MP5-2 Background White Type H Reflective Message Blue
- MR5-1 and MR5-2 Background Brown
  - Message Yellow Type H Reflective
- 5. M5-1R same as M5-1L except arrow points right.
- 6. M5-2R same as M5-2L except arrow tilts right.

c —	
D → E →	
Į.	<b>←</b>
·	M5-2L
	MK5-2L

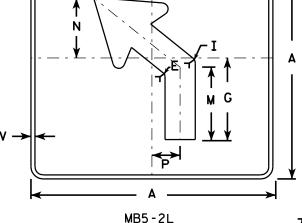
MK5-1L MM5-1L MO5-1L MP5-1L MR5-1L

M5-1L



MB5-1L MG5-1L MN5-1L

HWY:



MG5-2L

MN5-2L

MM5-2L

M05-2L

MP5-2L

MR5-2L

T A S

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Areo sq. fi
1																											
2	21		1 1/8	3%	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 %	5 1/4	5	2 1/2		1/2	2 %	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	<b>7</b> /8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 1/8	<b>7</b> /8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 1/8	<b>½</b>		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer
DATE 7/29/13 PLATE NO. M5-1.12

SHEET NO:

PROJECT NO:

PLOT NAME :

- 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

MG6-1 and MG6-2 Background - Green

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

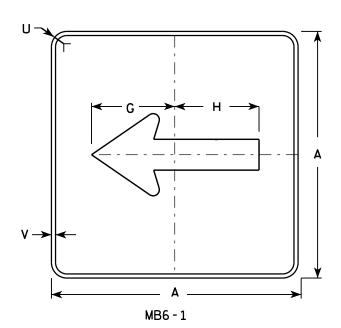
MR6-1 and MR6-2 Background - Brown

Message - Yellow

c —	
D ->	
	A
	M6 - 2
	MK 6 - 2



- MM6-2 MN6 - 2
- MO6-2
- MP6-2
- MR6-2



HWY:

M6 - 1

MK6-1

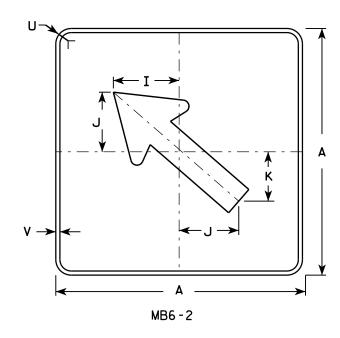
MM6 - 1

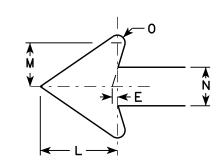
MN6-1

MO6 - 1

MP6-1

MR6-1





SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
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 %	1/2					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

DATE 7/03/14 PLATE NO. M6-1.14

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\M61.DGN

PROJECT NO:

PLOT DATE: 03-JUL-2014 14:28

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 11.675051:1.000000

- 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. M6-4 and M6-6 Background White

Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

and M06-6 Background - Orange - Type F Reflective

Message - Black

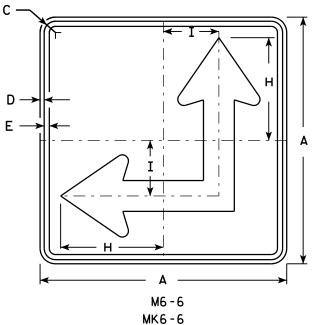
MP6-4 and MP6-6 Background - White

Message - Blue

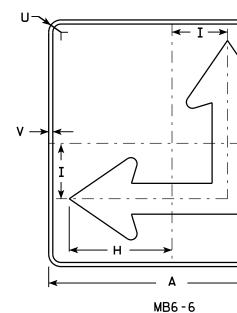
MR6-4 and MR6-6 Background - Brown

Message - Yellow

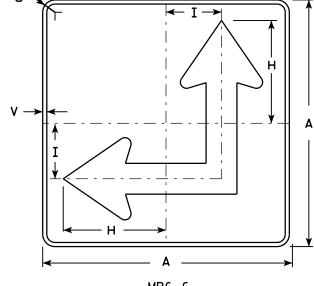
5. M6-6R same as M6-6L except arrow points ahead and right.











	0	
M M	/	
*	<u>/</u> - <u>-</u> →  <u>← E</u>	^Ñ
<b>←</b>	- L → '	

SIZE	Ε Α	Δ	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	J	٧	W	X	Y	Z	Area sq. ft.
1																												
2	2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3∕4						1 %	1/2					6.25
4	3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	3	30		1 3/8	1/2	5/8		10 ¾	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-4 & M6-6 **SERIES** 

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PLATE NO. M6-4.9 DATE 7/03/14

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\M64.DGN

PROJECT NO:

M6 - 4

MK6-4

MM6 - 4

MN6 - 4

M06 - 4

MP6-4

MR6-4

MB6 - 4

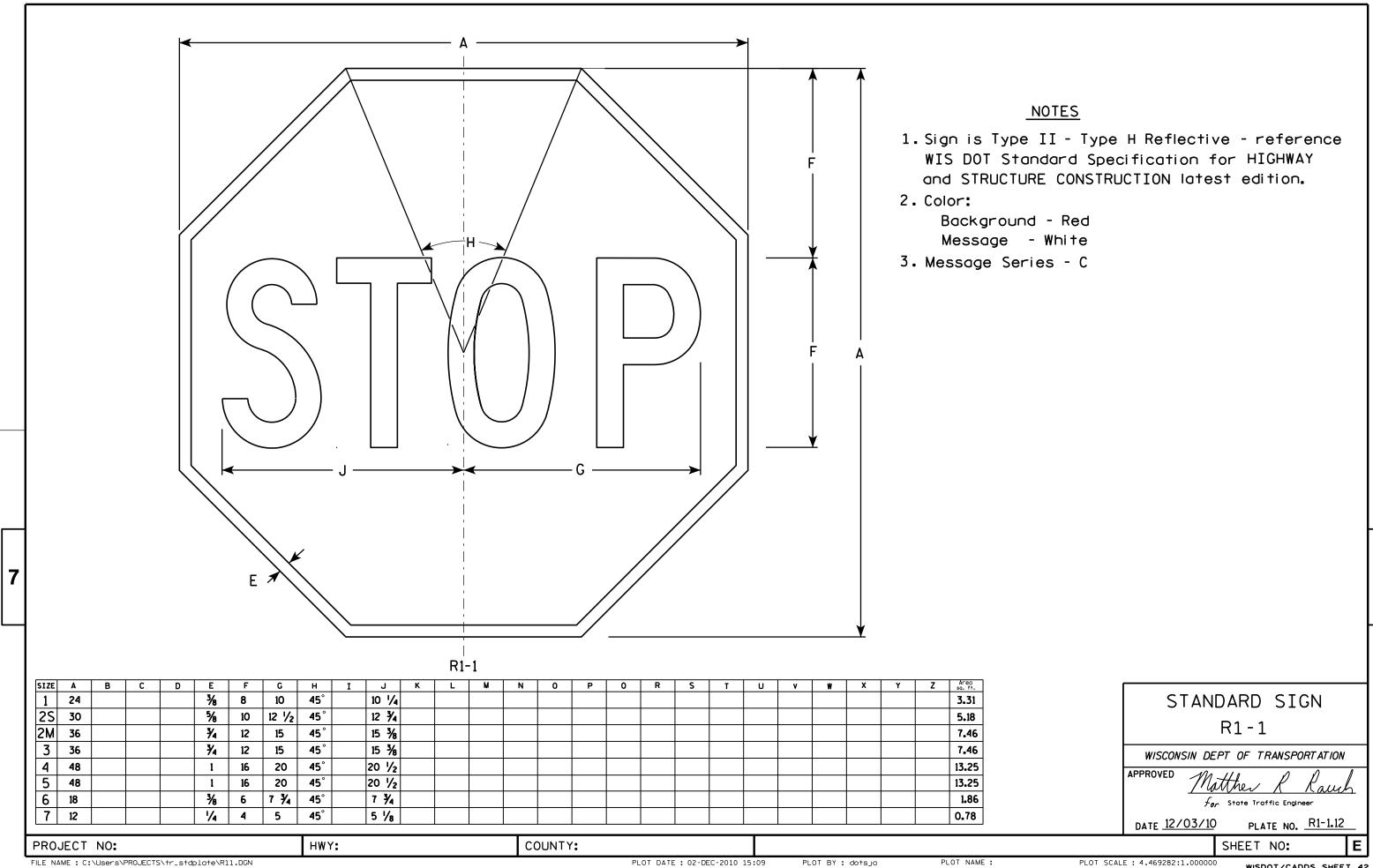
HWY:

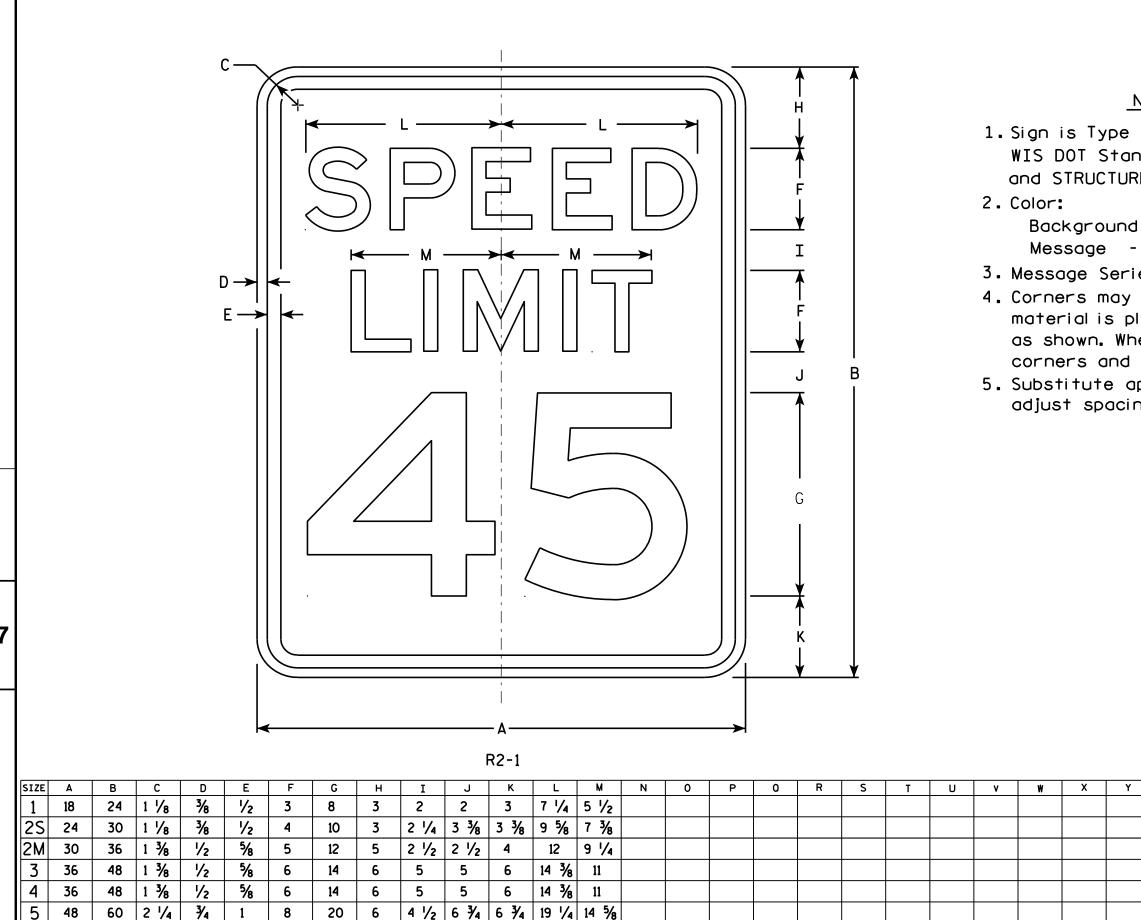
PLOT DATE: 03-JUL-2014 14:56

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 11.675051:1.000000





COUNTY:

#### NOTES

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

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 DATE <u>5/26/1</u>0 PLATE NO. R2-1.13

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R21.DGN

PROJECT NO:

HWY:

PLOT DATE: 28-MAY-2010 08:32

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 4.717577:1.000000

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

Background - White Message - Black

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

	G + H B
	F G W
R2-6P	

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																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 %	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

COUNTY:

STANDARD SIGN R2-6P

WISCONSIN DEPT OF TRANSPORTATION

PPROVED

Matthew & 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:

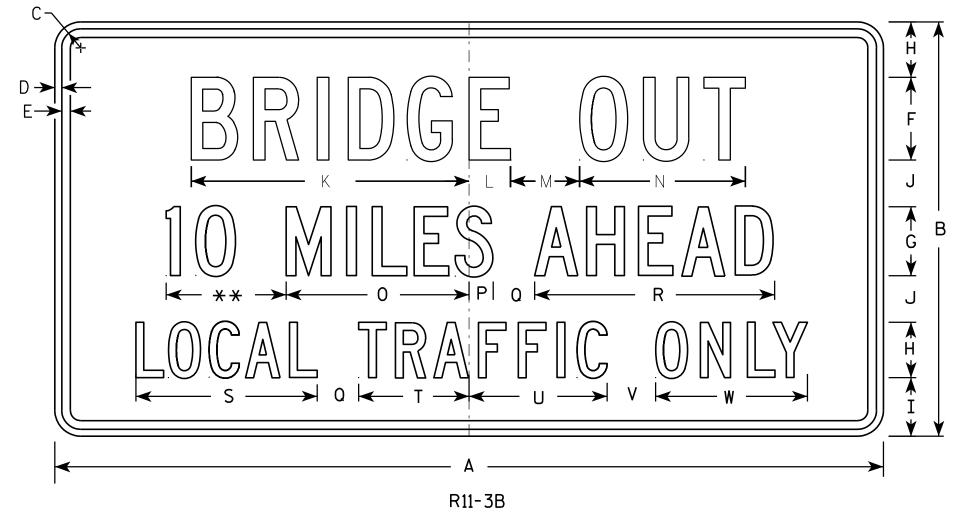
HWY:

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

\*\* See Note 5

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5%	4	3	2 1/2	2	2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 %	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 %	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											
PRO	JECT	NO:						HWY:					С	COUNTY	/:												

STANDARD SIGN R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Raug For State Traffic Engineer PLATE NO. R11-3B.2 DATE 4/1/11

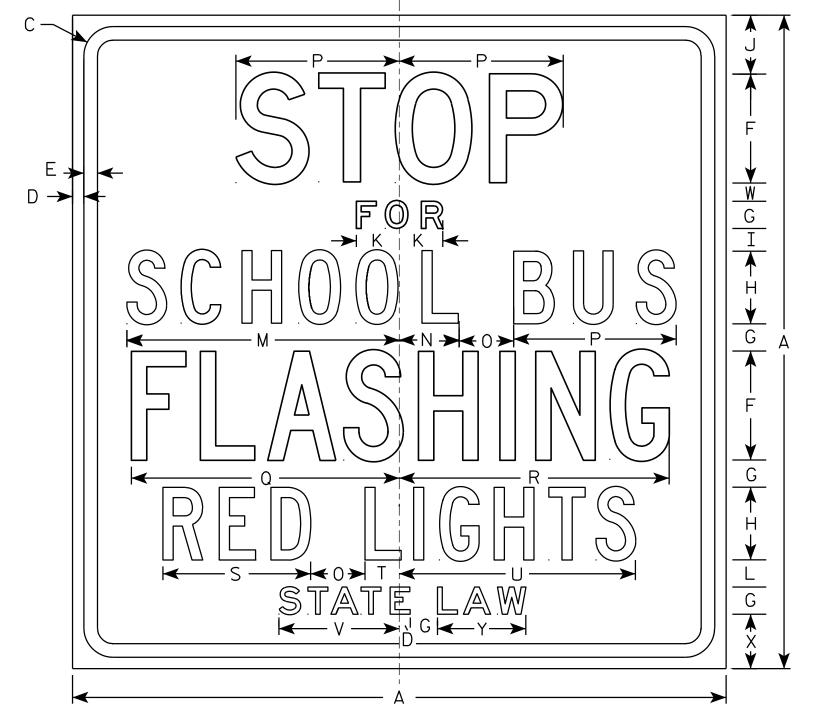
SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R113B.DGN

PLOT DATE: 01-APR-2011 14:17

PLOT BY: mscj9h

PLOT SCALE: 6.952219:1.000000



- 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 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	С	D	E	F	G	Н	I	۲	К	L	М	N	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	36		1 5/8	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 1/8	8 1/8	1 1/8	13	6 %	1	3	4 1/8		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 1/8	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 ¾	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

Matthew R Rauch

For State Traffic Engineer

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

DATE STOCKIE PLATE

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 BY: mscj9h

PLOT NAME :

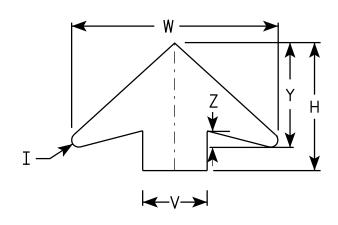
PLOT SCALE: 5.287650:1.000000

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

  Background YELLOW\*

  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	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	<b>%</b>	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	<b>1</b> / <sub>8</sub>	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9	12	8	25 %	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

DATE 5/29/12 PLATE NO. W3-5.5

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W35.DGN

PROJECT NO:

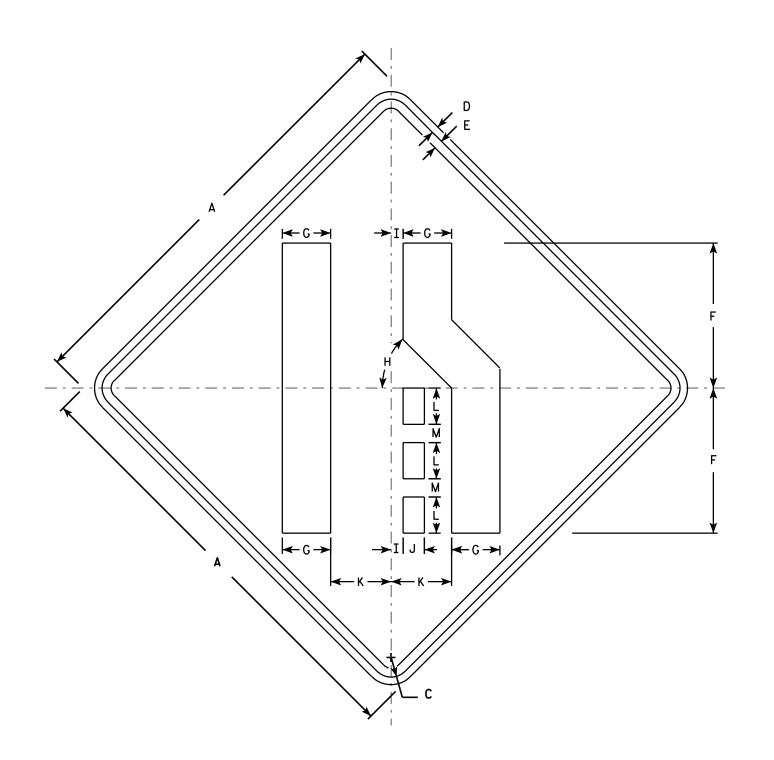
PLOT DATE: 29-MAY-2012 10:52

PLOT BY: mscsja

- 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. W4-2L is the same as W4-2R except the symbolis reversed along the vertical centerline.



W4-2R

SIZE	Α	В	С	D	Е	F	G	Н	I	7	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Υ	Z	Area sq. ft
1	30		1 3/8	1/2	5/8	10	3 %	45°	<b>%</b>	1 1/2	4 1/4	2 1/2	1 1/4														6.25
25	36		1 %	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 %	5/8	₹4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 %	5/8	₹4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 ¾	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN W4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

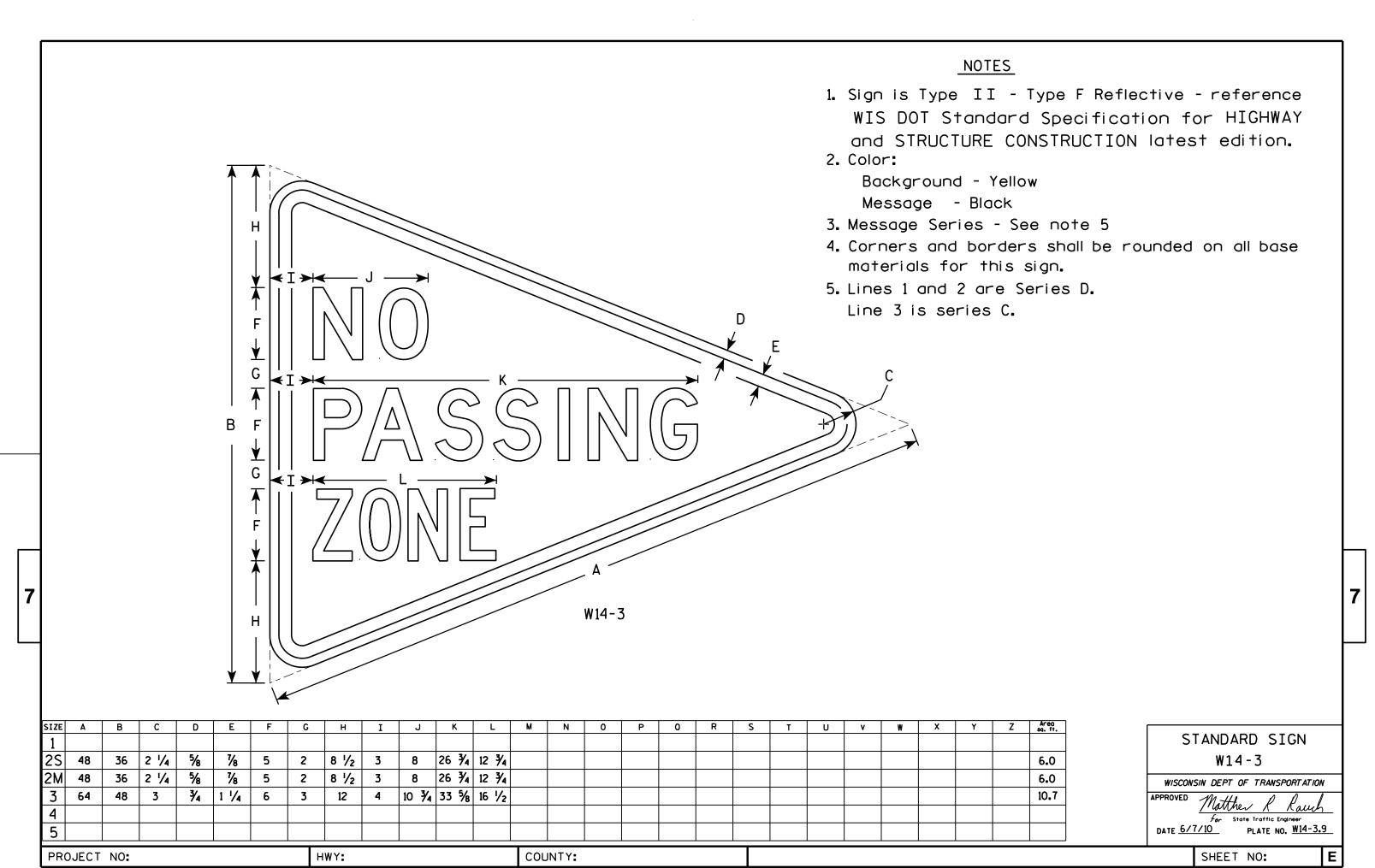
DATE 3/12/13

PLATE NO. W4-2.14

SHEET NO:

PROJECT NO:

PLOT BY: mscsja



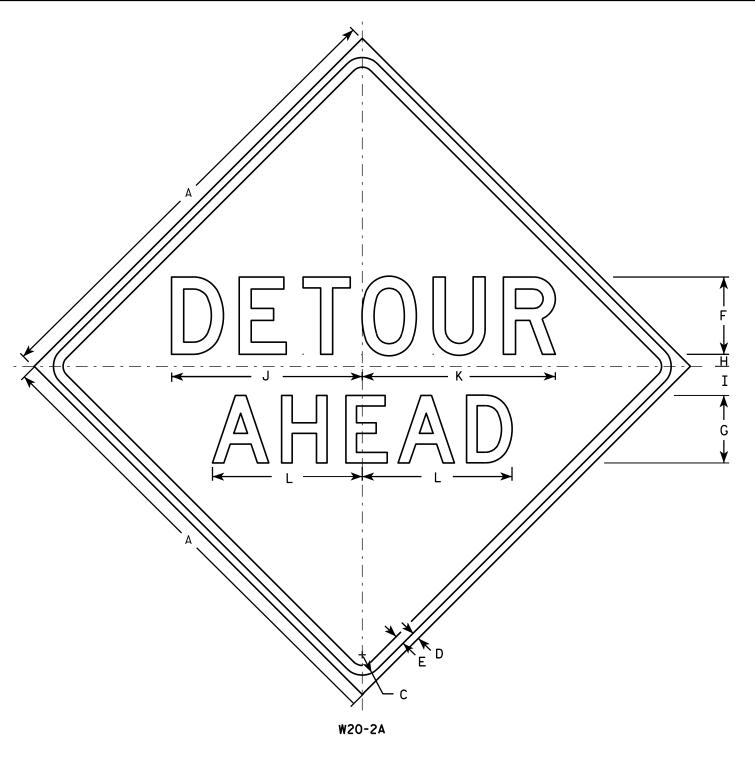
FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W143.DGN

PLOT DATE: 07-JUN-2010 13:11

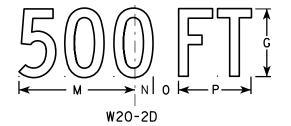
PLOT BY : ditjph

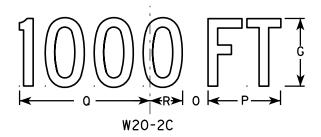
PLOT NAME :

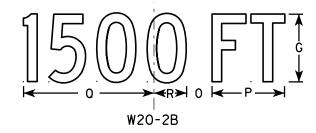
PLOT SCALE: 5.710749:1.000000

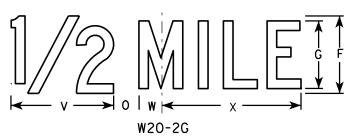


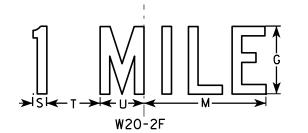
HWY:











PLOT BY: mscj9h

#### <u>NOTES</u>

- 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. Line 1 is Series D.
  Line 2 is Series D for AHEAD and
  Series C for all other distances.

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	36		1 1/8	5/8	₹4	6	5	1	2 1/4	14 3/4	15	11 %	9	1 3/8	1 %	5 %	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 %	2 3/8	14 3/8			16.0
2M	48		2 1/4	3∕4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 5/8	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
3	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
4	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0
5	48		2 1/4	₹4	1	8	7	1 1/4	3	19 ¾	20	15 1/2	12	1 1/8	2 %	7 1/2	13 1/2	3 3/8	1 1/2	6	4 %	10 %	2 3/8	14 3/8			16.0

COUNTY:

STANDARD SIGN W20-2A,B,C,D,F & G

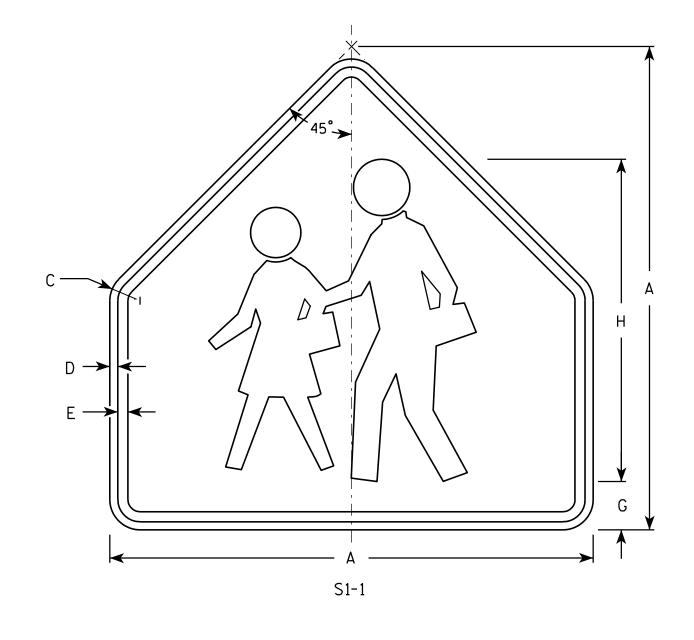
WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

SHEET NO:

PROJECT NO:



- 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	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	3/4	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:

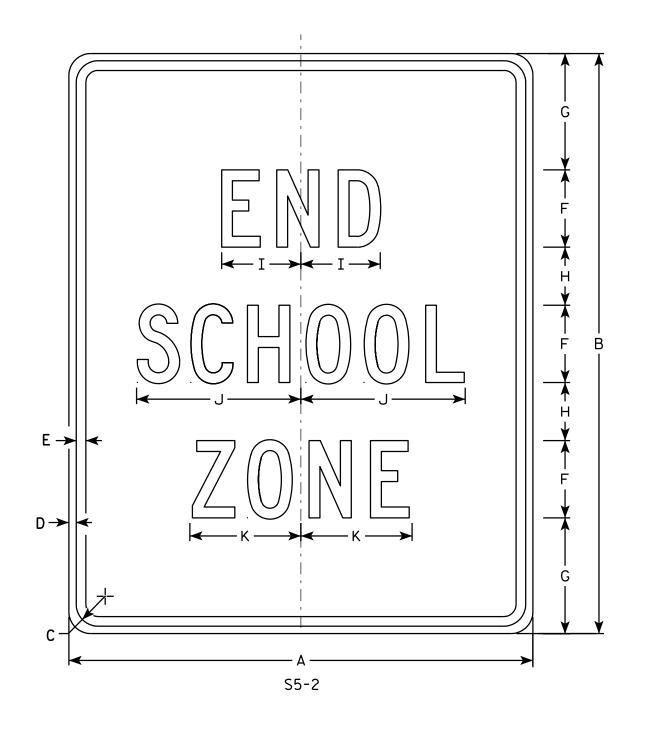
HWY:

PLOT DATE: 26-MAY-2010 16:12

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 5.959043:1.000000



- 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 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.

3/8 1/2 4 1/8 8 1/2 5 3/4 24 30 | 1 1/8 5.0 3 36 42 | 1 1 1 1 1 1 1 1 1 1 1 1 5/8 3/4 6 1/8 12 5/8 8 5/8 10.5 4 5 HWY:

COUNTY:

STANDARD SIGN S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer 

DATE 3/8/11

SHEET NO:

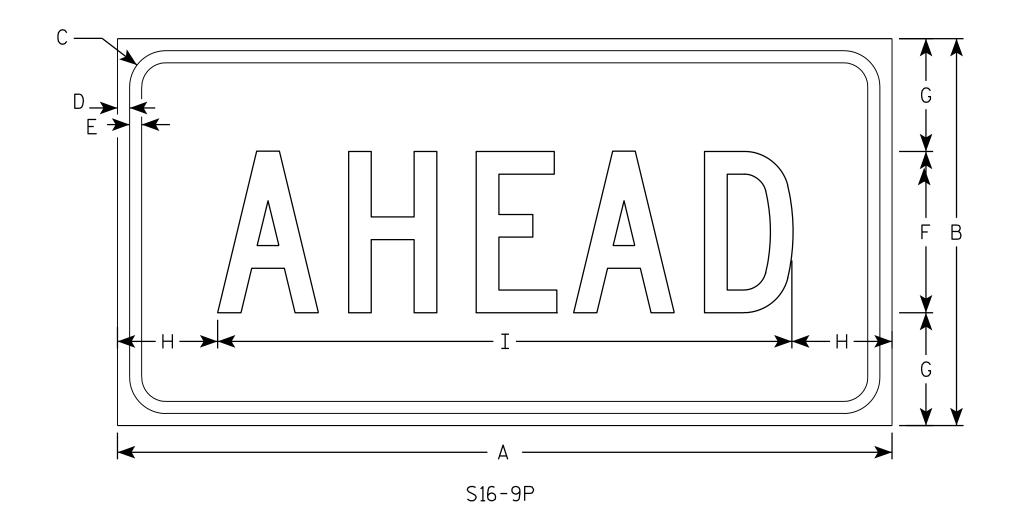
PROJECT NO:

PLOT NAME :

- 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	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area 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 3/4																		8.0
5																											

COUNTY:

STANDARD SIGN S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

/ED

Matthew Rauch

For State Traffic Engineer

DATE 7/22/13

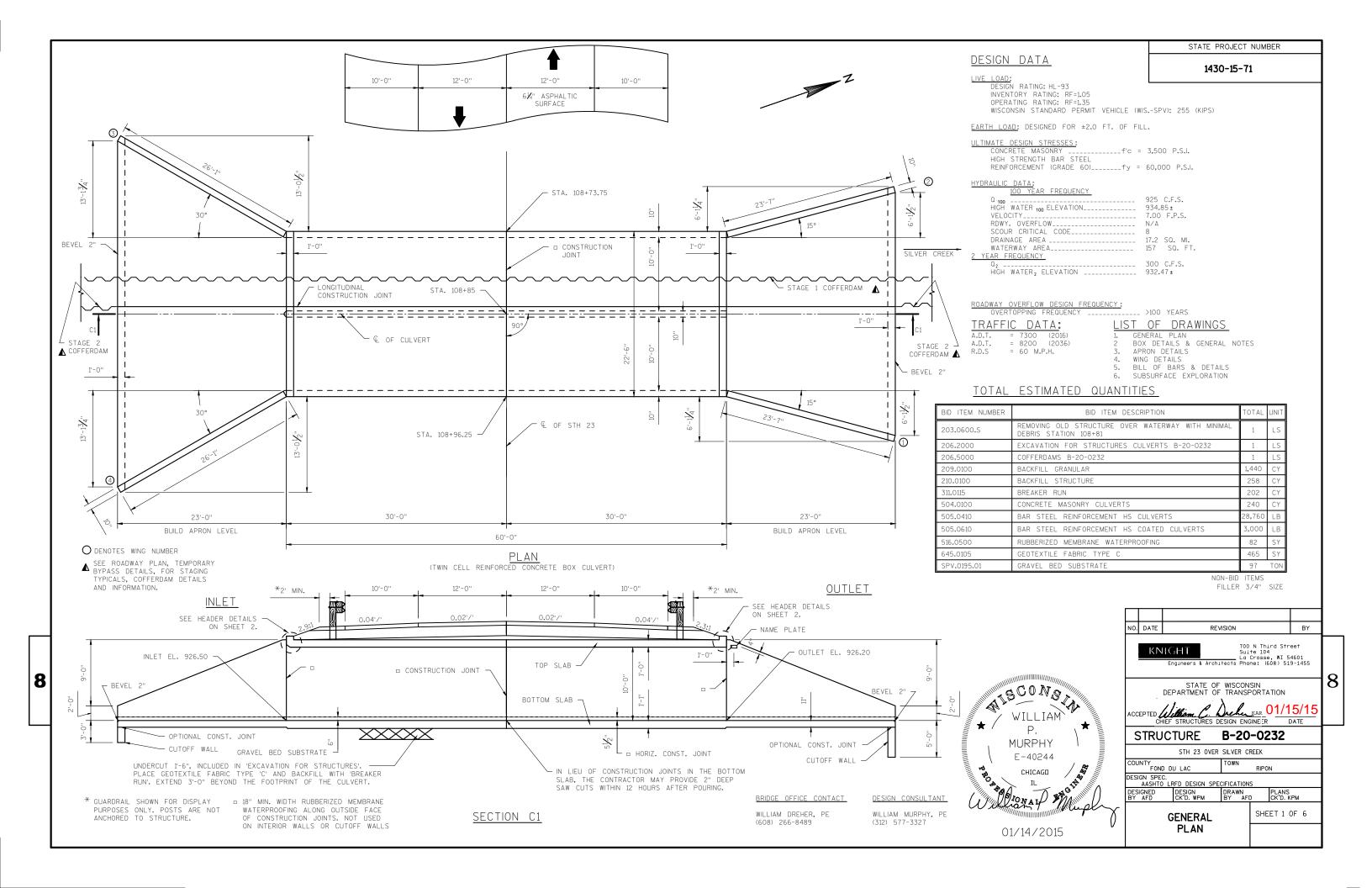
PLATE NO. S16-9P.1

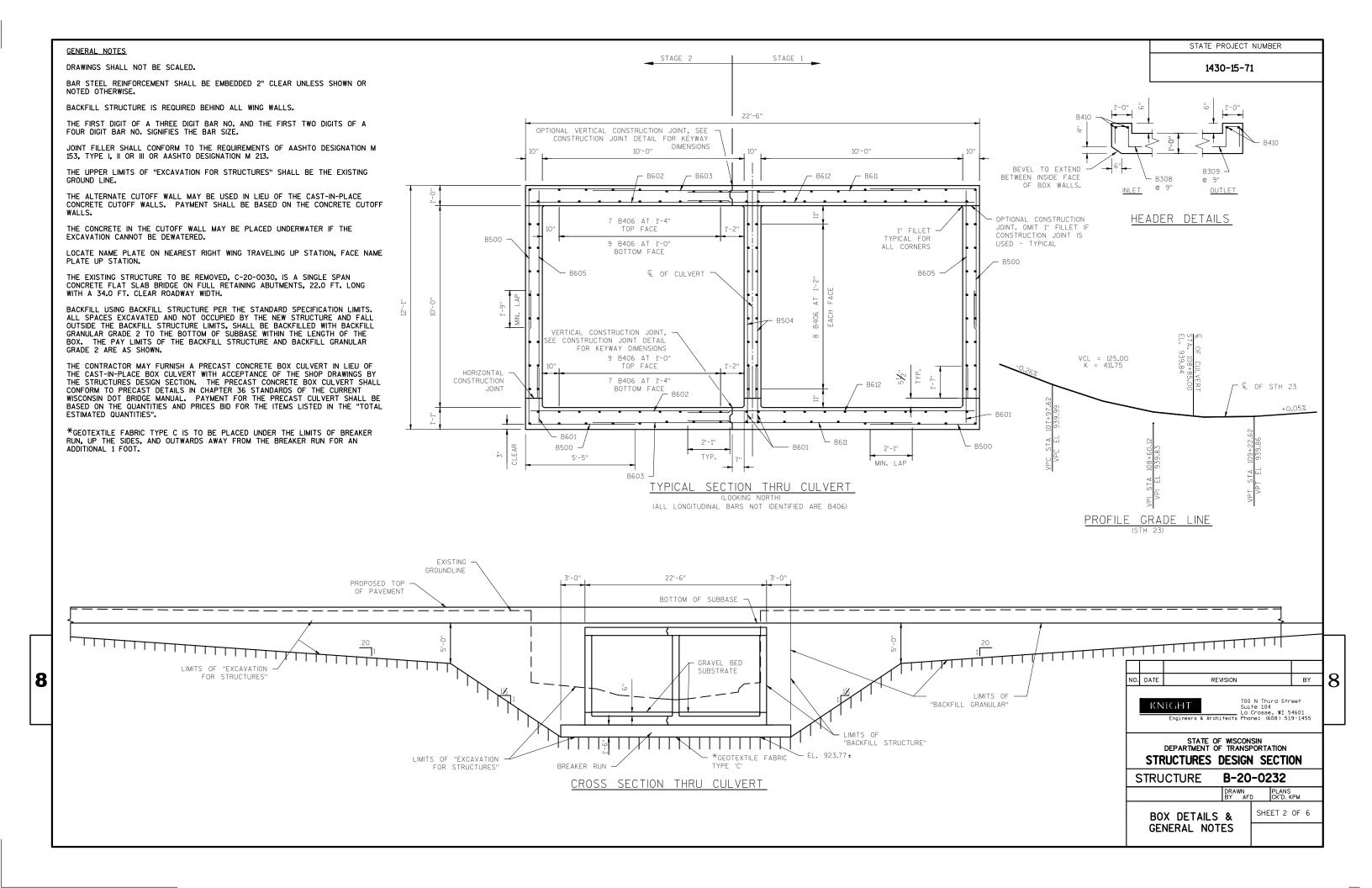
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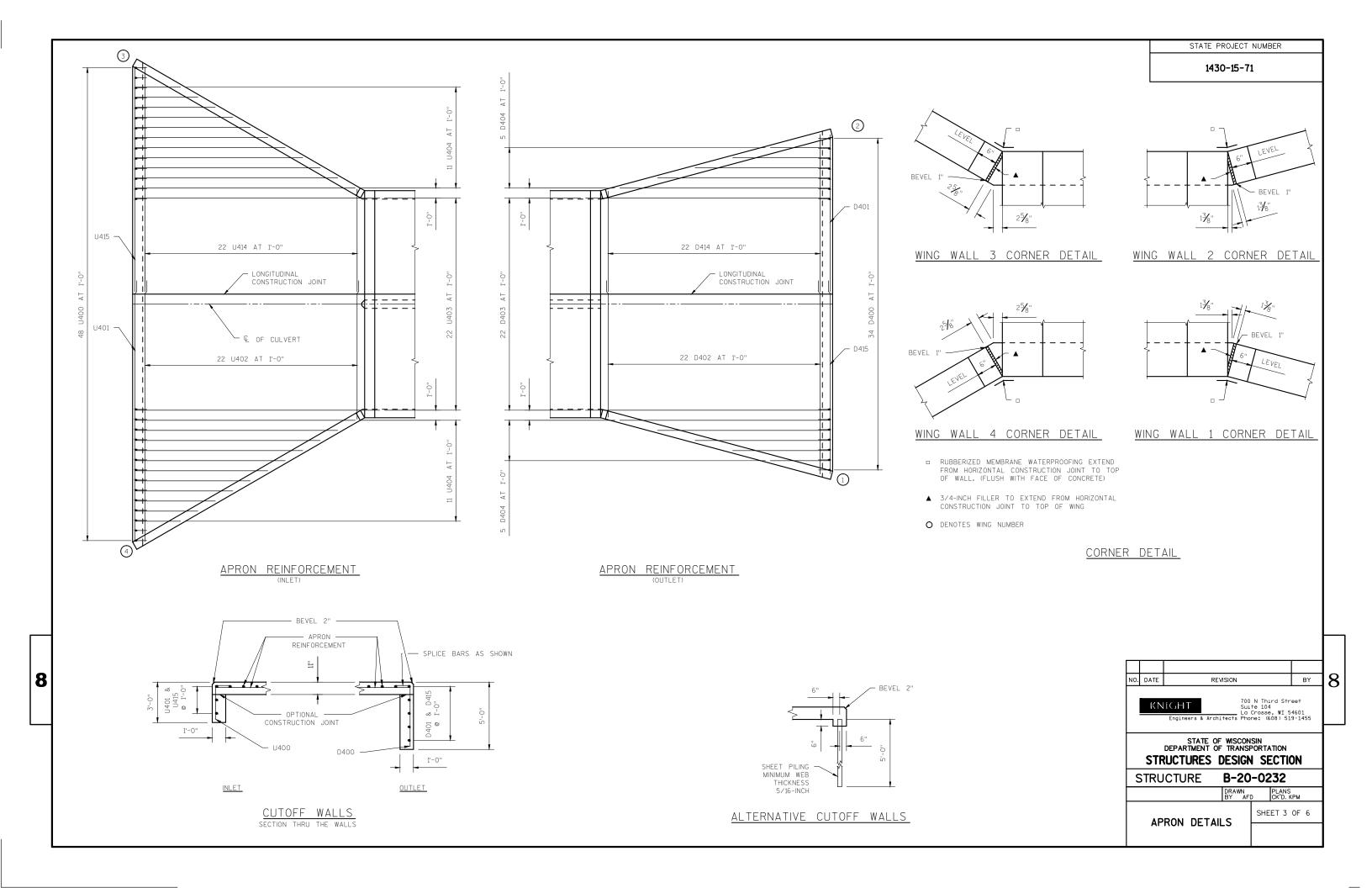
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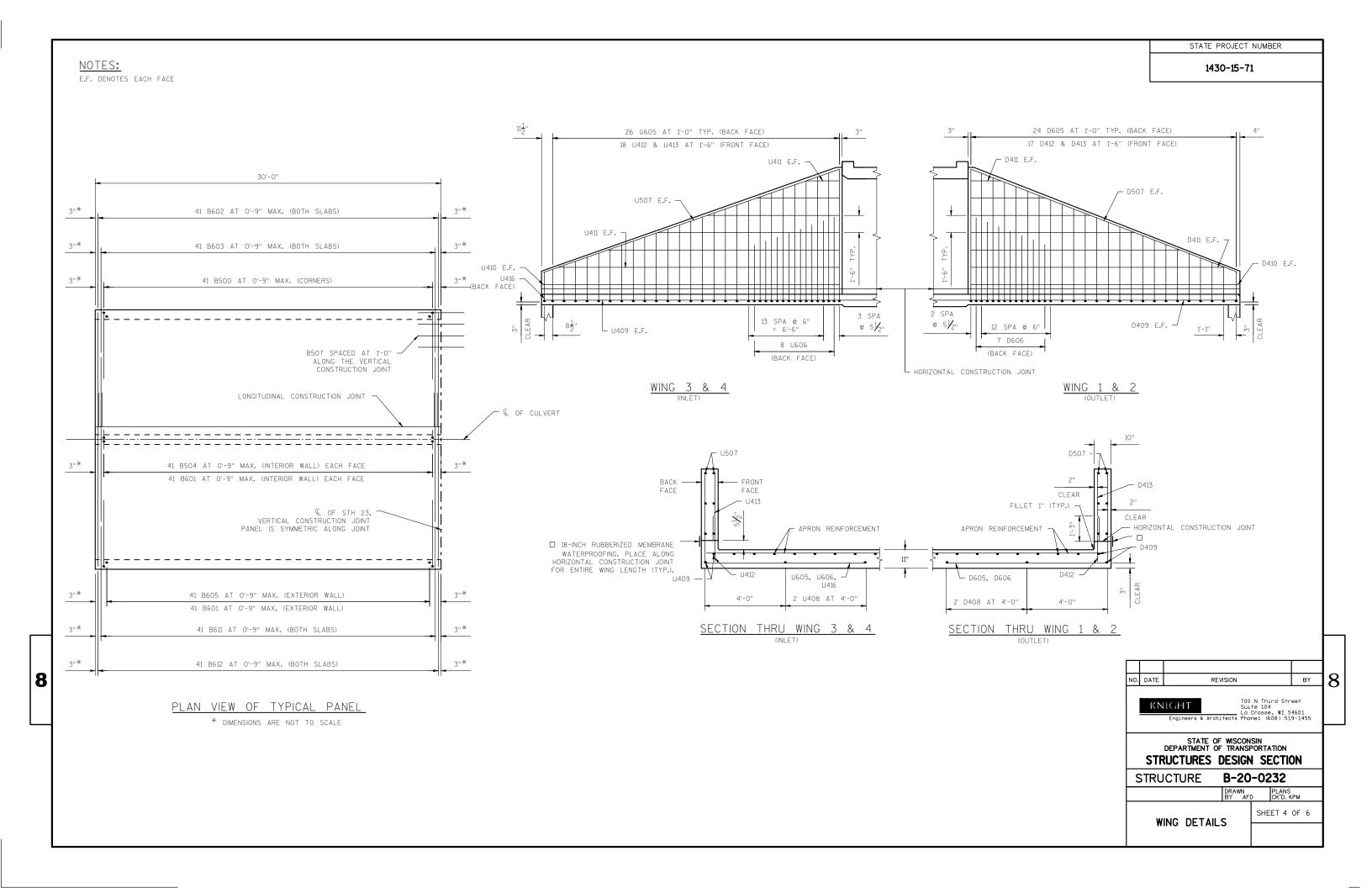
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PLOT NAME :

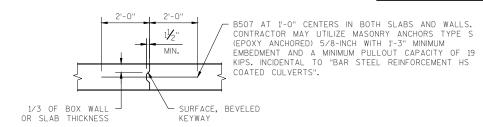






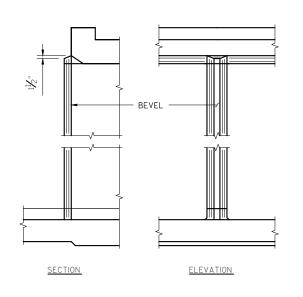


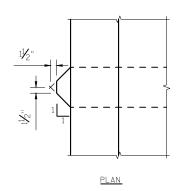
1430-15-71



CONSTRUCTION JOINT DETAIL

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONSTRUCTION JOINT IN BOTTOM SLAB.





#### INLET NOSE DETAIL

NO.	DATE		REVI	SION			BY
	KN	Engineers &	. Archii	Su. La	) N Thi te 104 Crosse one: (6	, WI 5	4601
	STF	STAT DEPARTMEN RUCTURE	IT OF		PORTA		ON
S	TRU	CTURE		B-20	-02	32	
				DRAWN BY AF	D	PLANS CK'D. K	
	ВІ	LL OF I	BAR:	S	SHE	ET 5	OF 6
		& DETA	ILS				

8

#### BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
B500		328	11-1	5'-9"		BOX CORNER
B601		328	2-11			BOX WALL DOWELS
B602		164	9-10			BOX TOP & BOTTOM SLAB TRANS.
B603		164	6-9			BOX TOP & BOTTOM SLAB TRANS.
B504		164	11-0	0'-10"		BOX INTERIOR WALL VERITCAL
B605		164	10-4			BOX EXTERIOR WALL VERTICAL
B406		256	29-8			BOX LONGITUDINAL
B507		76	4-0			CONSTRUCTION JOINT
B308		31	3-0	X		INLET HEADER
B309		31	3-2	X		OUTLET HEADER
B410		4	22-0			HORIZONTAL HEADER
B611		164	11-2			BOX TOP & BOTTOM SLAB TRANS.
B612		164	12-3			BOX TOP & BOTTOM SLAB TRANS.
U400		48	3-6	1'-1''		INLET APRON AND CUTOFF WALL
U401		3	25-8			INLET APRON AND CUTOFF WALL
U402		22	19-8		Х	INLET APRON
U403		22	24-3			INLET APRON
U404		22	13-2		X	INLET APRON
U605	X	52	15-0	8'-0"	X	WING 3 & 4 VERTICAL BACK FACE
U606	X	16	14-0	8'-0"	Х	WING 3 & 4 VERTICAL BACK FACE
U507		4	27-2			WING 3 & 4 HORIZONTAL BOTH FACES
U408		4	25-7			WING 3 & 4 HORIZONTAL APRON BOTTOM SLAB
U409		4	27-0			WING 3 & 4 HORIZONTAL APRON BOTTOM SLAB
U410		4	25-8			WING 3 & 4 HORIZONTAL BOTH FACES
U411		24	13-7		Х	WING 3 & 4 HORIZONTAL BOTH FACES
U412	X	36	2-4			WING 3 & 4 DOWELS FRONT FACE
U413		36	6-1		X	WING 3 & 4 VERTICAL FRONT FACE
U414		22	16-4		X	INLET APRON
U415		3	22-4			INLET APRON AND CUTOFF WALL
U416	X	2	10-6	8'-0"		WING 3 & 4 VERTICAL BACK FACE
D400		34	5-6	1'-1''		OUTLET APRON AND CUTOFF WALL
D401		5	19-0			OUTLET APRON AND CUTOFF WALL
D402		22	16-2		X	OUTLET APRON
D403		22	24-3			OUTLET APRON
D404		10	13-5		X	OUTLET APRON
D605	X	48	14-11	8'-0"	Ŷ	WING 1 & 2 VERTICAL BACK FACE
D606	X	14	14-0	8'-0"	X	WING 1 & 2 VERTICAL BACK FACE
D507		4	24-9		1 "	WING 1 & 2 HORIZONTAL BOTH FACES
D408		4	23-1		1	WING 1 & 2 HORIZONTAL APRON BOTTOM SLAB
D409		4	24-6		1	WING 1 & 2 HORIZONTAL APRON BOTTOM SLAB
D410		4	23-2		+ -	WING 1 & 2 HORIZONTAL BOTH FACES
D411		24	12-4		X	WING 1 & 2 HORIZONTAL BOTH FACES
D412	X	34	2-4			WING 1 & 2 DOWELS FRONT FACE
D413		34	6-0		X	WING 1 & 2 VERTICAL FRONT FACE
D414		22	12-11		<del>Î</del> X	OUTLET APRON
D415		5	19-0		<del>  '`  </del>	OUTLET APRON AND CUTOFF WALL

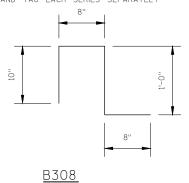
LENGTH SHOWN FOR BAR SERIES IN "BILL OF BARS" IS AVERAGE LENGTH. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR THE SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

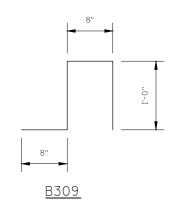
#### BAR SERIES

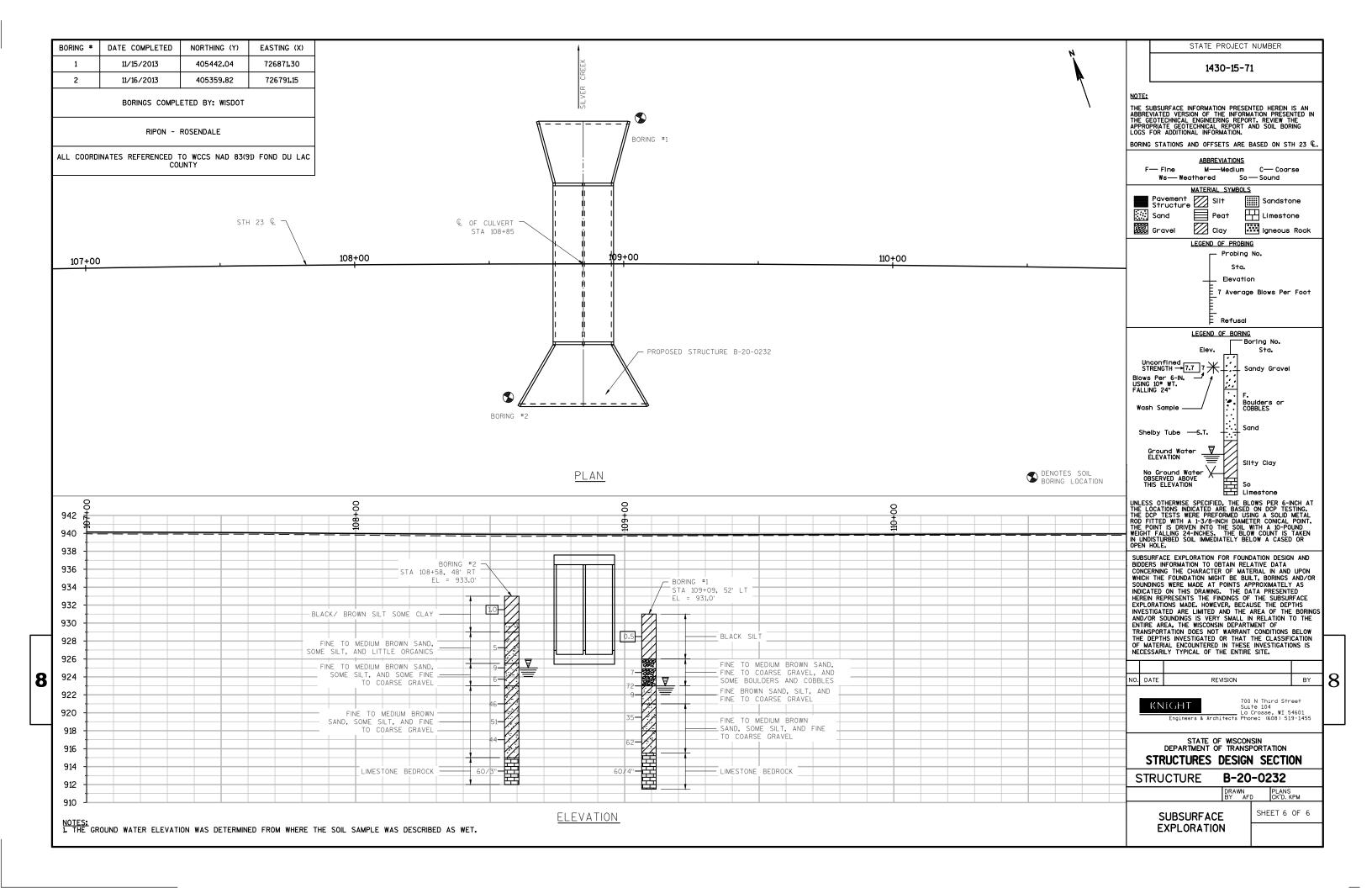
8

BAR MARK	NO. REQ'D	LENGTH
U402	1 SETS OF 22	13'-7" TO 25'-9"
U404	2 SETS OF 11	4'-6" TO 21'-10"
U605	2 SETS OF 26	10'-7" TO 19'-4"
U606	2 SETS OF 8	12'-9" TO 15'-2"
U411	4 SETS OF 6	2'-10" TO 24'-4"
U413	2 SETS OF 18	1'-8" TO 10'-5"
U414	1 SETS OF 22	10'-3" TO 22'-5"
D402	1 SETS OF 22	13'-5" TO 19'-0"
D404	2 SETS OF 5	5'-11" TO 20'-10"
D605	2 SETS OF 24	10'-6" TO 19'-4"
D606	2 SETS OF 7	12'-9" TO 15'-2"
D411	4 SETS OF 6	2'-7" TO 22'-0"
D413	2 SETS OF 17	1'-6" TO 10'-5"
D414	1 SETS OF 22	10'-1" TO 15'-9"

BUNDLE AND TAG EACH SERIES SEPARATELY







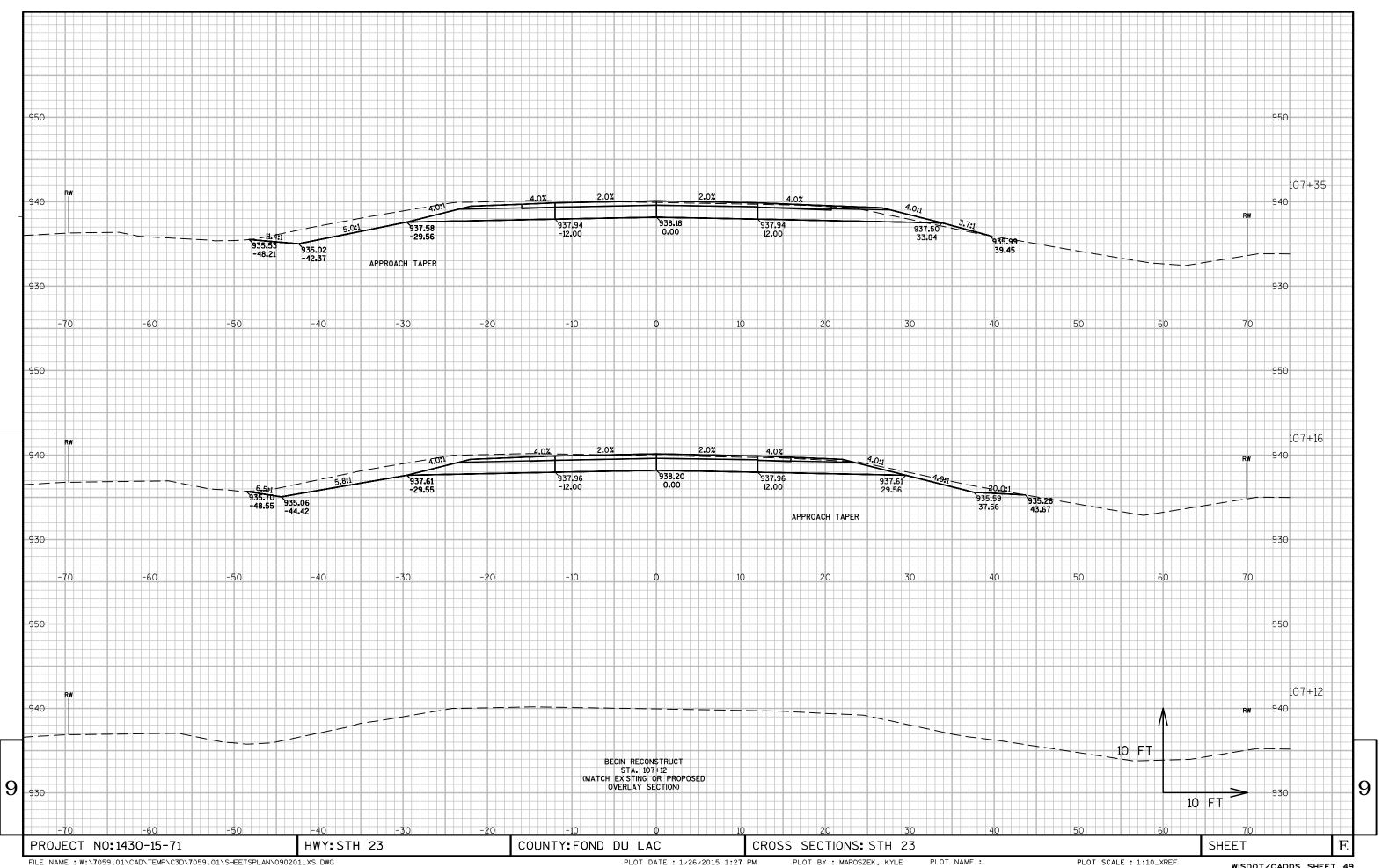
			AREA (SI	:)					Incremer	ntal Vol (CY) (Unadjus	ited)				Cumulati	ve Vol (CY)						
			(01								,						Expanded Marsi	h	Expanded EBS	Reduced Marsh	Reduced EBS	
			Cut	Salvaged/Unusable	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable	Fill	Marsh Ex	c Rock Ex	c EBS	Cut	<b>Expanded Fill</b>	Backfill	<b>Expanded Rock</b>	Backfill	in Fill	In Fill	Mass Ordinate
STATION	<b>Real Station</b>	Distance		<b>Pavement Material</b>						<b>Pavement Material</b>					1.00	1.25	1.50	1.10	1.30	0.60	0.80	
									Note 1	Note 2	Note 3	3			Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
107+12.39	10712.39	0.00	139.11	27.25	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
107+15.92	10715.92	3.52	135.72	27.25	0.00	0.00	0.00	0.00	18	4	0	0	0	0	18	0	0	0	0	0.00	0.00	14.38
107+34.64	10734.64	18.72	132.05	27.25	1.60	0.00	0.00	0.00	93	19	1	0	0	0	111	1	0	0	0	0.00	0.00	87.62
107+47.53	10747.53	12.89	128.48	27.25	6.82	0.00	0.00	0.00	62	13	2	0	0	0	173	3	0	0	0	0.00	0.00	134.29
107+50	10750.00	2.47	127.72	27.25	6.19	0.00	0.00	0.00	12	2	1	0	0	0	185	4	0	0	0	0.00	0.00	142.78
107+60.03	10760.03	10.03	124.76	27.25	3.99	0.00	0.00	0.00	47	10	2	0	0	0	232	6	0	0	0	0.00	0.00	177.18
107+66.25	10766.25	6.22	124.50	27.25	2.81	0.00	0.00	0.00	29	6	1	0	0	0	260	7	0	0	0	0.00	0.00	198.65
107+72.52	10772.52	6.27	131.49	27.25	1.61	0.00	0.00	0.00	30	6	1	0	0	0	290	8	0	0	0	0.00	0.00	221.42
107+78.75	10778.75	6.23	138.19	27.25	1.31	0.00	0.00	0.00	31	6	0	0	0	0	321	8	0	0	0	0.00	0.00	245.80
107+91.25	10791.25	12.50	150.99	27.44	0.57	0.00	0.00	0.00	67	13	0	0	0	0	388	9	0	0	0	0.00	0.00	299.54
107+97.53	10797.53	6.28	155.85	27.66	0.25	0.00	0.00	0.00	36	6	0	0	0	0	424	9	0	0	0	0.00	0.00	328.68
108+00	10800.00	2.47	158.61	27.84	0.21	0.00	0.00	0.00	14	3	0	0	0	0	438	9	0	0	0	0.00	0.00	340.52
108+16.25	10816.25	16.25	176.72	29.15	0.18	0.00	0.00	0.00	101	17	0	0	0	0	539	9	0	0	0	0.00	0.00	424.11
108+31.25	10831.25	15.00	200.97	30.30	0.38	0.00	0.00	0.00	105	17	0	0	0	0	644	9	0	0	0	0.00	0.00	512.34
108+50	10850.00	18.75	219.90	31.74	2.88	0.00	0.00	0.00	146	22	1	0	0	0	790	11	0	0	0	0.00	0.00	635.52
108+56.25	10856.25	6.25	204.26	32.12	23.07	0.00	0.00	0.00	49	7	3	0	0	0	839	15	0	0	0	0.00	0.00	673.46
109+12.5	10912.50	56.25	200.89	31.35	5.35	0.00	0.00	0.00	422	66	30	0	0	0	1,261	52	0	0	0	0.00	0.00	992.36
109+37.5	10937.50	25.00	231.49	29.54	0.36	0.00	0.00	0.00	200	28	3	0	0	0	1,461	55	0	0	0	0.00	0.00	1,161.04
109+50	10950.00	12.50	210.69	28.64	0.07	0.00	0.00	0.00	102	13	0	0	0	0	1,564	55	0	0	0	0.00	0.00	1,249.81
109+72.48	10972.48	22.48	170.48	27.25	0.70	0.00	0.00	0.00	159	23	0	0	0	0	1,722	55	0	0	0	0.00	0.00	1,384.84
109+78.77	10978.77	6.29	158.91	27.25	0.88	0.00	0.00	0.00	38	6	0	0	0	0	1,761	56	0	0	0	0.00	0.00	1,416.64
109+91.28	10991.28	12.50	140.13	27.25	1.62		0.00	0.00	69	13	1	0	0	0	1,830	56	0	0	0	0.00	0.00	1,472.52
109+97.48	10997.48	6.20	132.18	27.25	2.99		0.00	0.00	31	6	1	0	0	0	1,861	57	0	0	0	0.00	0.00	1,496.88
110+00	11000.00	2.52	129.59	27.25	3.78	0.00	0.00	0.00	12	3	0	0	0	0	1,874	57	0	0	0	0.00	0.00	1,506.16
110+03.78	11003.78	3.78	125.71	27.25	5.13	0.00	0.00	0.00	18	4	1	0	0	0	1,891	58	0	0	0	0.00	0.00	1,519.42
110+10	11010.00	6.22	121.94	27.25	2.85	0.00	0.00	0.00	29	6	1	0	0	0	1,920	59	0	0	0	0.00	0.00	1,540.52
110+22.49	11022.49	12.50	123.88	27.25	0.03	0.00	0.00	0.00	57	13	1	0	0	0	1,977	60	0	0	0	0.00	0.00	1,583.97
110+35.41	11035.41	12.91	127.91	27.25	0.00	0.00	0.00	0.00	60	13	0	0	0	0	2,037	60	0	0	0	0.00	0.00	1,631.14
110+50	11050.00	14.59	127.83	27.25	0.00	0.00	0.00	0.00	69	15	0	0	0	0	2,106	60	0	0	0	0.00	0.00	1,685.52
110+54.18	11054.18	4.18	128.64	27.25	0.00	0.00	0.00	0.00	20	4	0	0	0	0	2,126	60	0	0	0	0.00	0.00	1,701.15
110+57.9	11057.90	3.72	128.20	27.25	0.00	0.00	0.00	0.00	18	4	0	0	0	0	2,144	60	0	0	0	0.00	0.00	1,715.09

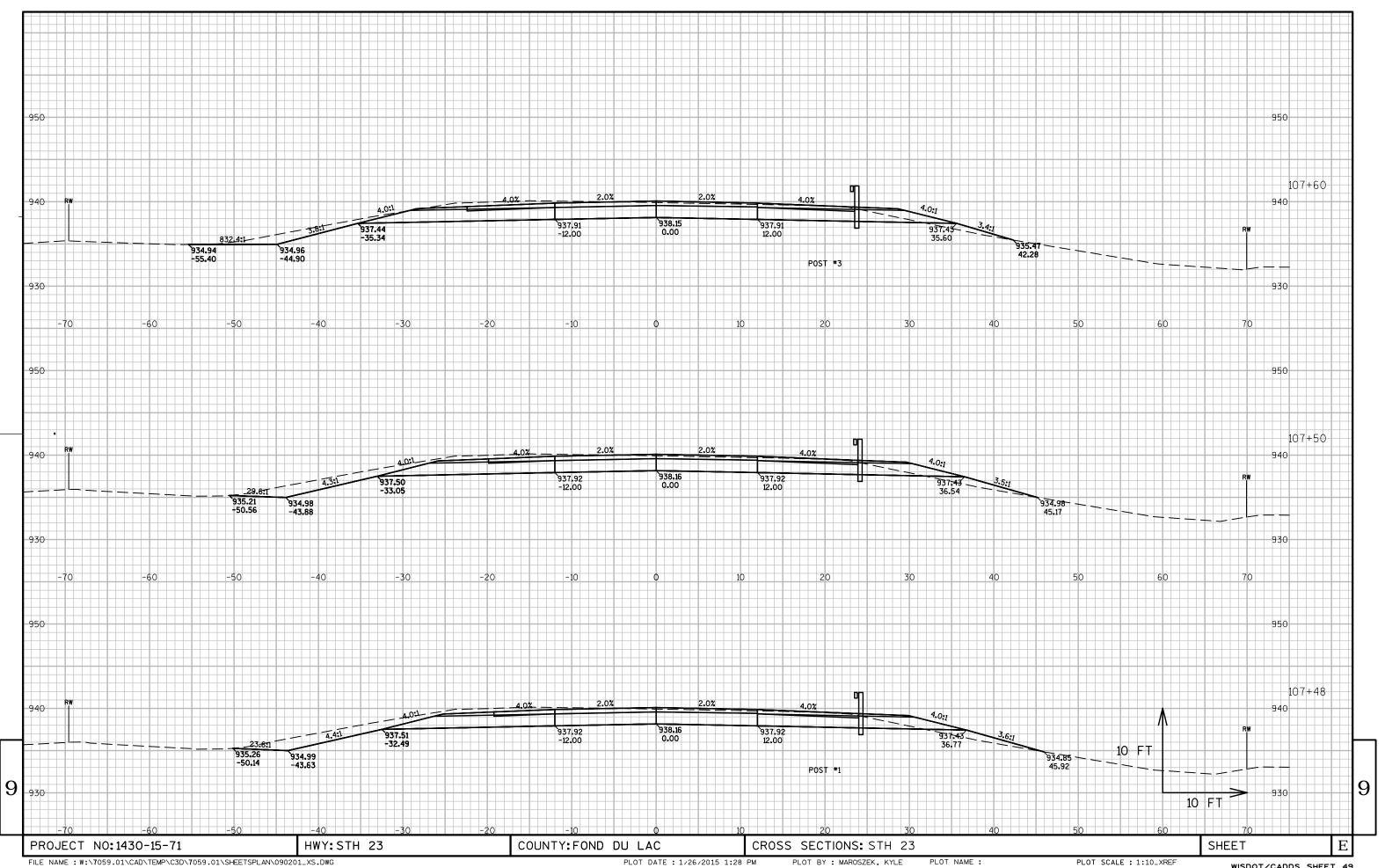
2,144 368 48 0 0 0

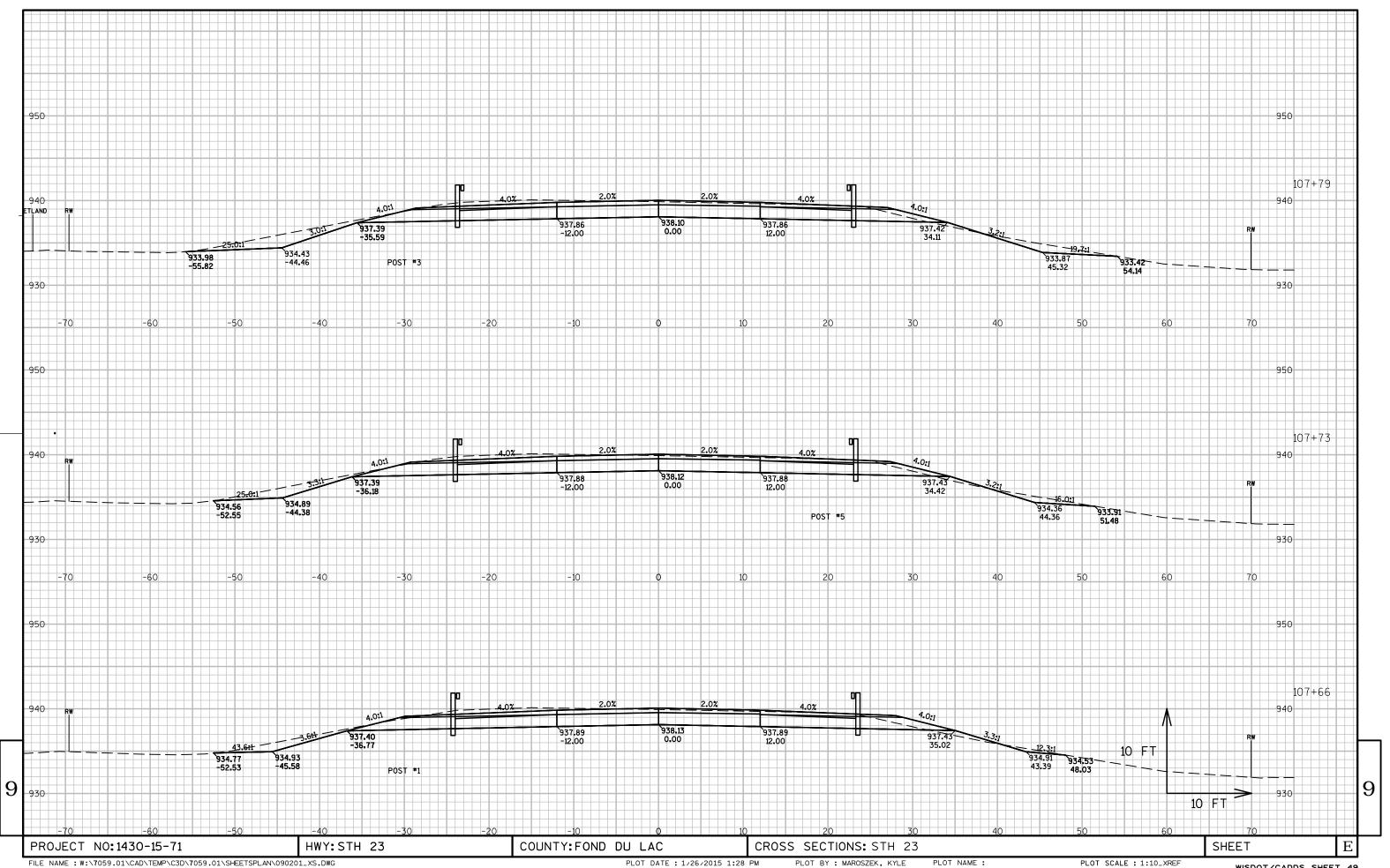
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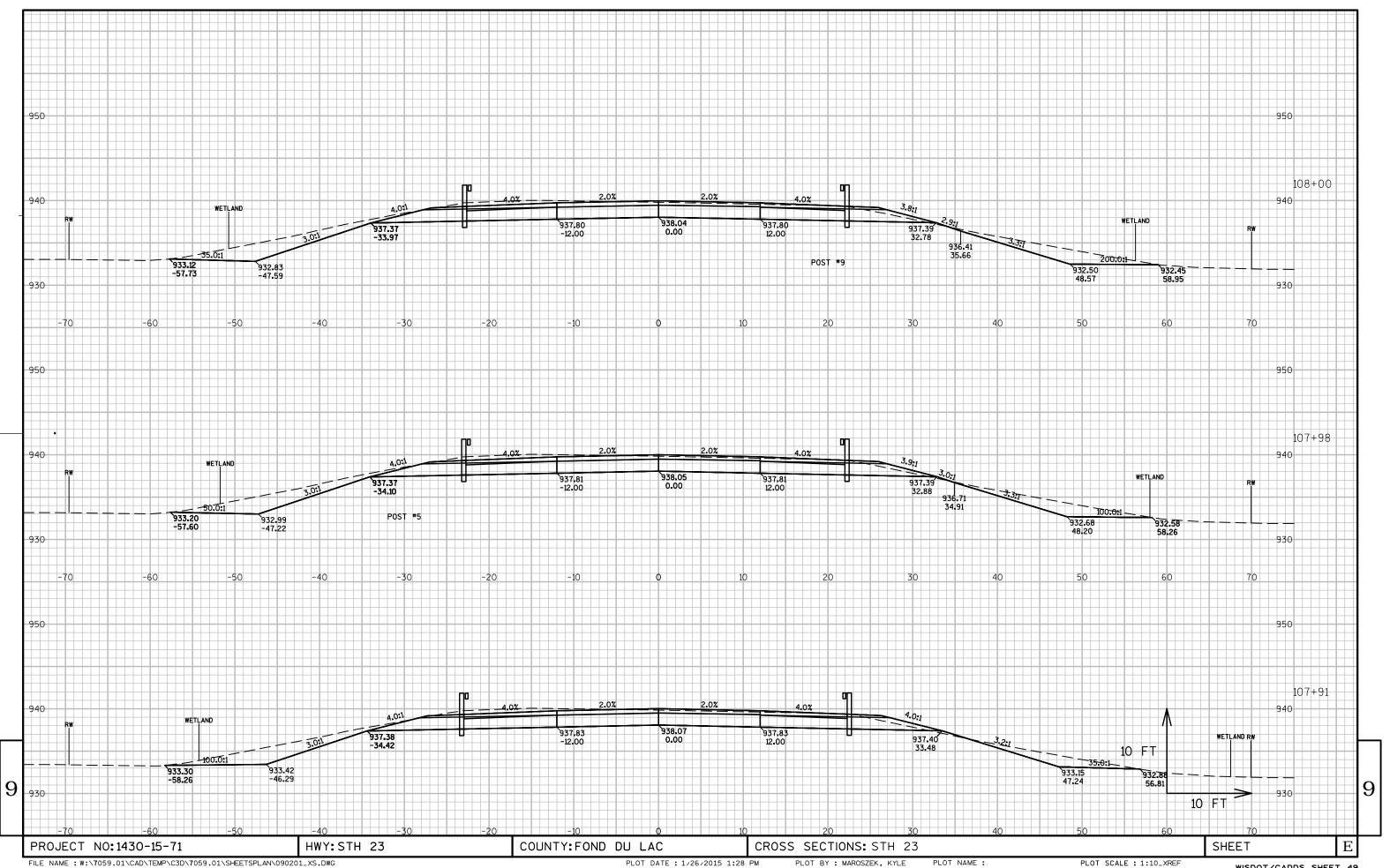
STATE PROJECT NO: 1430-15-71 HWY: STH 23 COUNTY: FOND DU LAC EARTHWORK SUMMARY SHEET NO: E

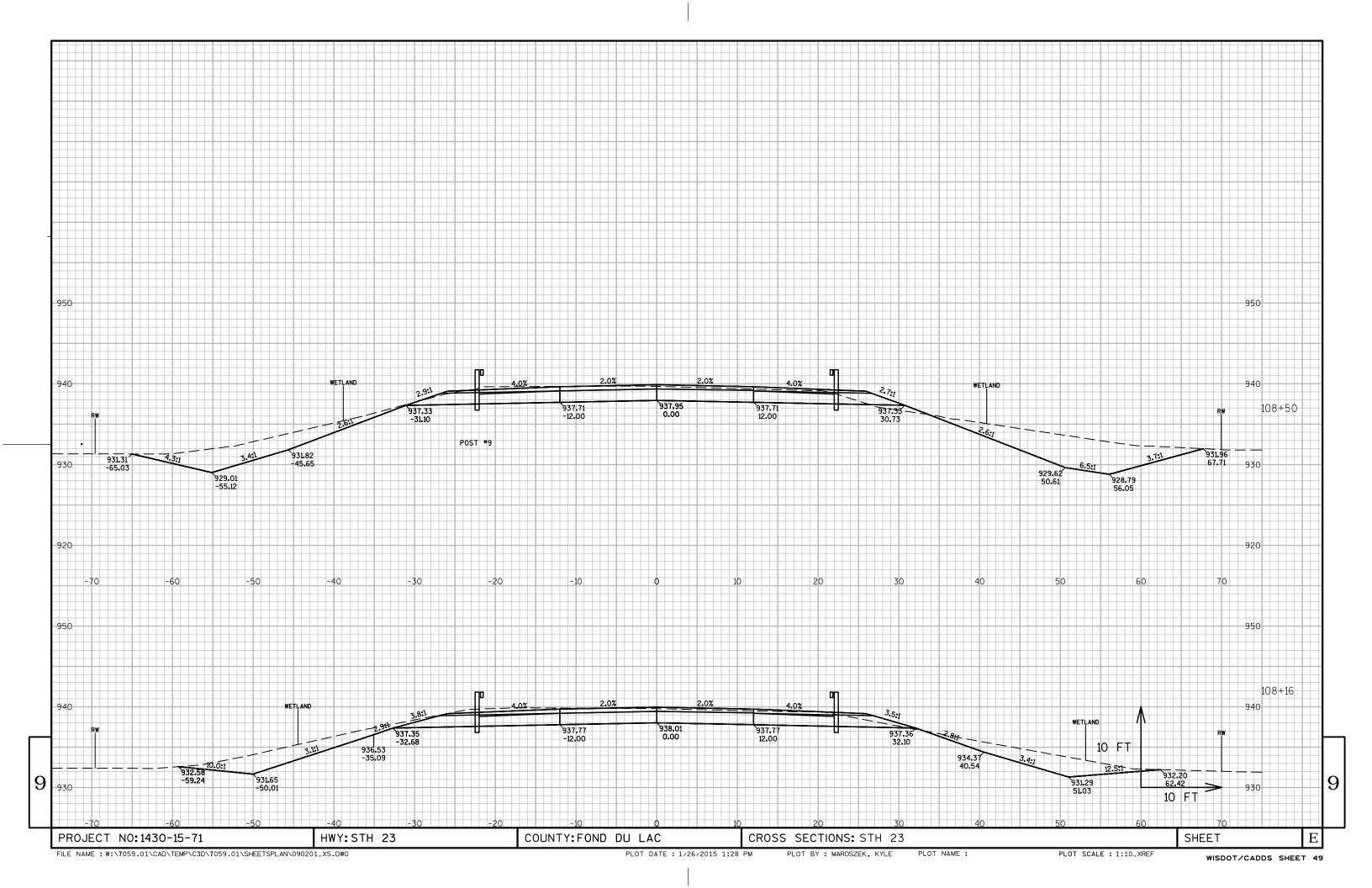
FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ ORIGINATOR : DIST \_ PLOT SCALE : 1:1

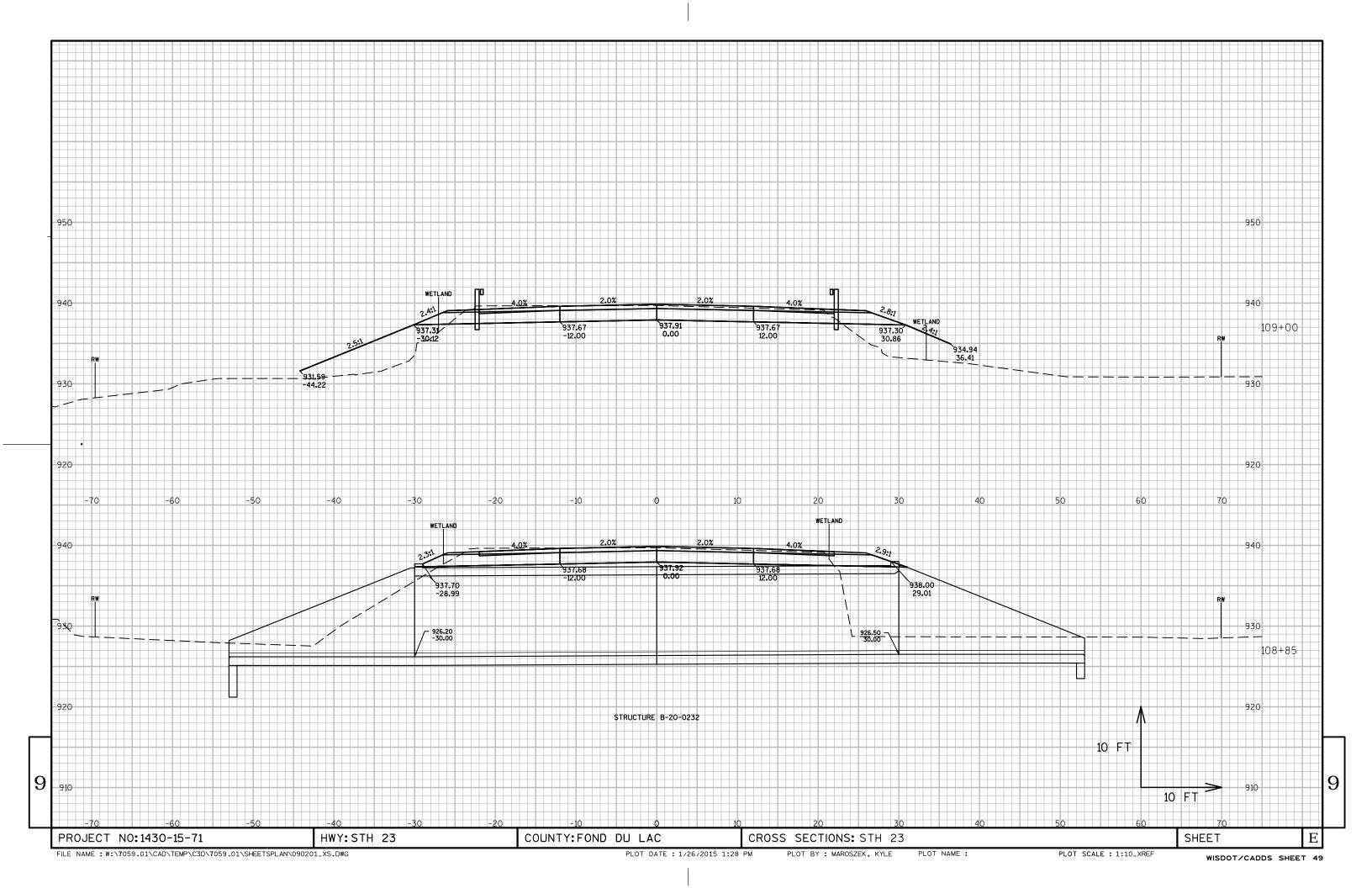


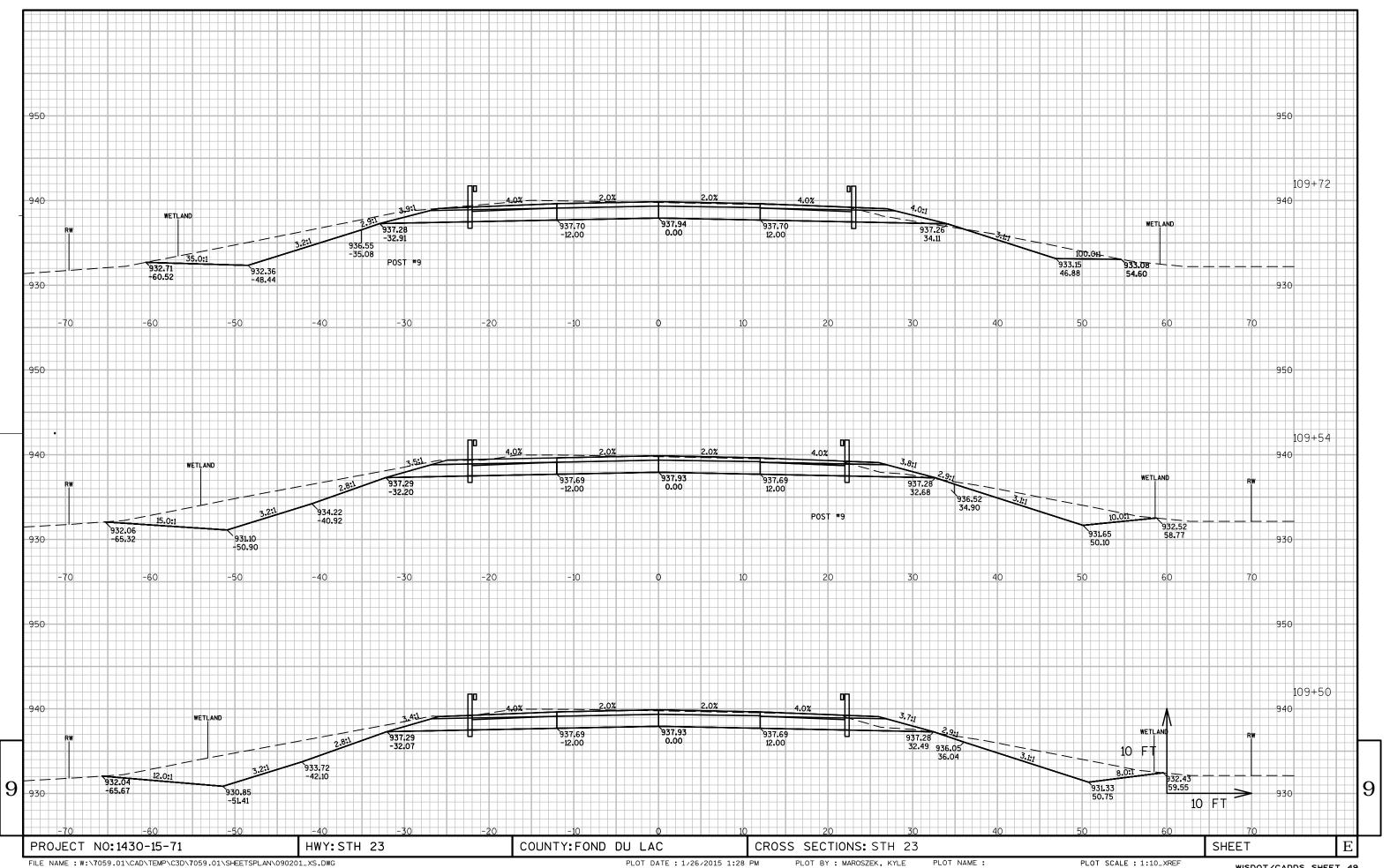


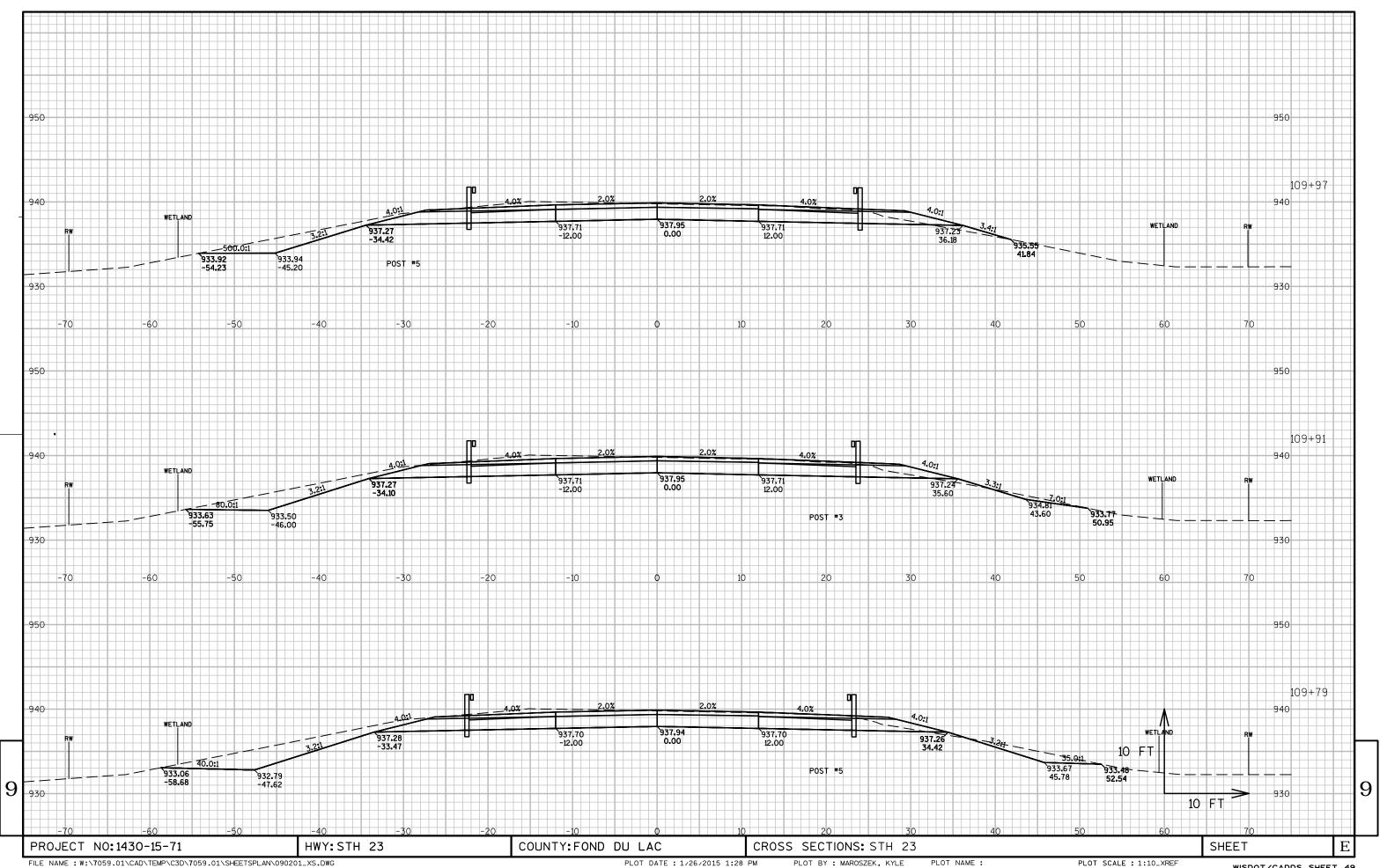


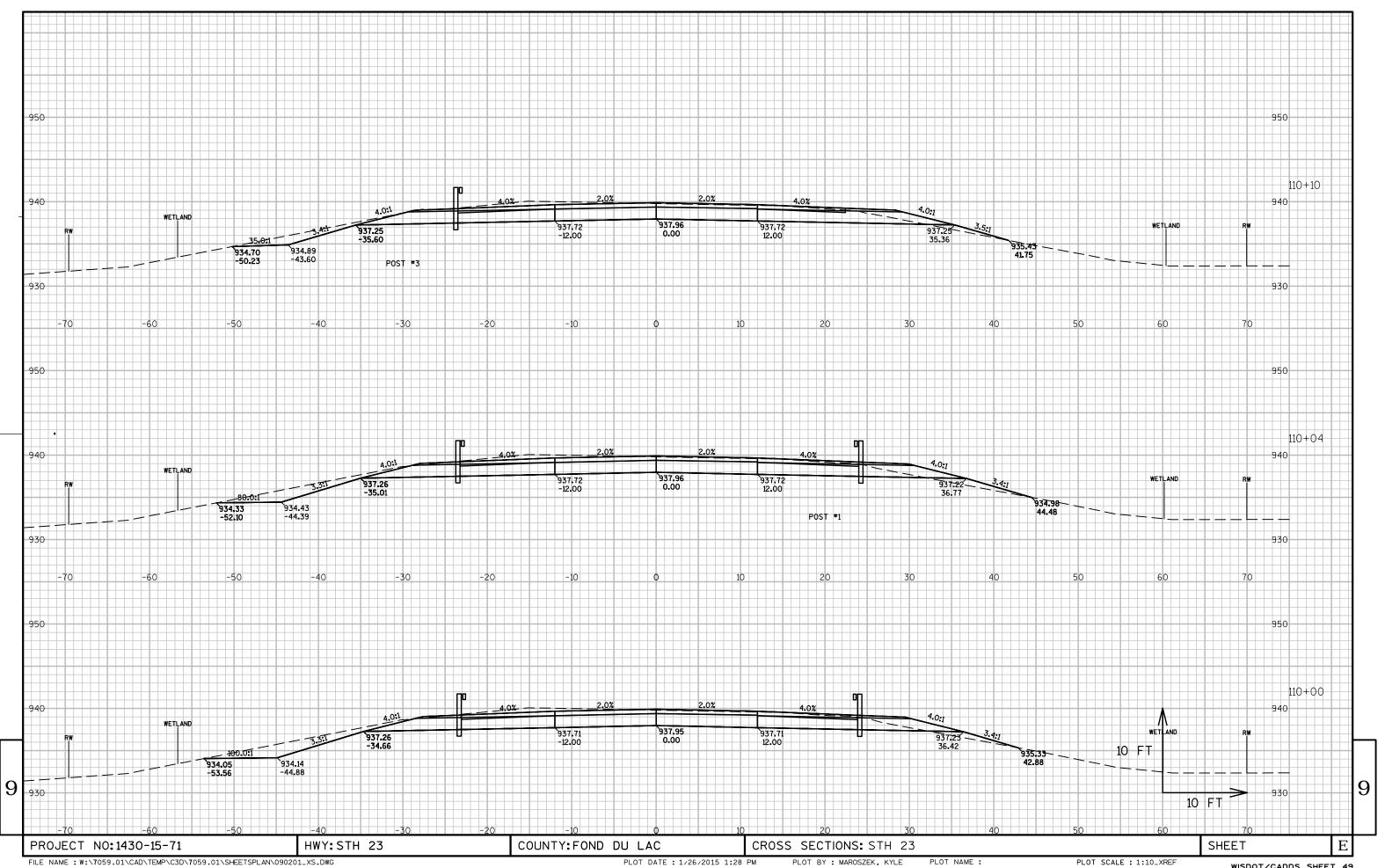


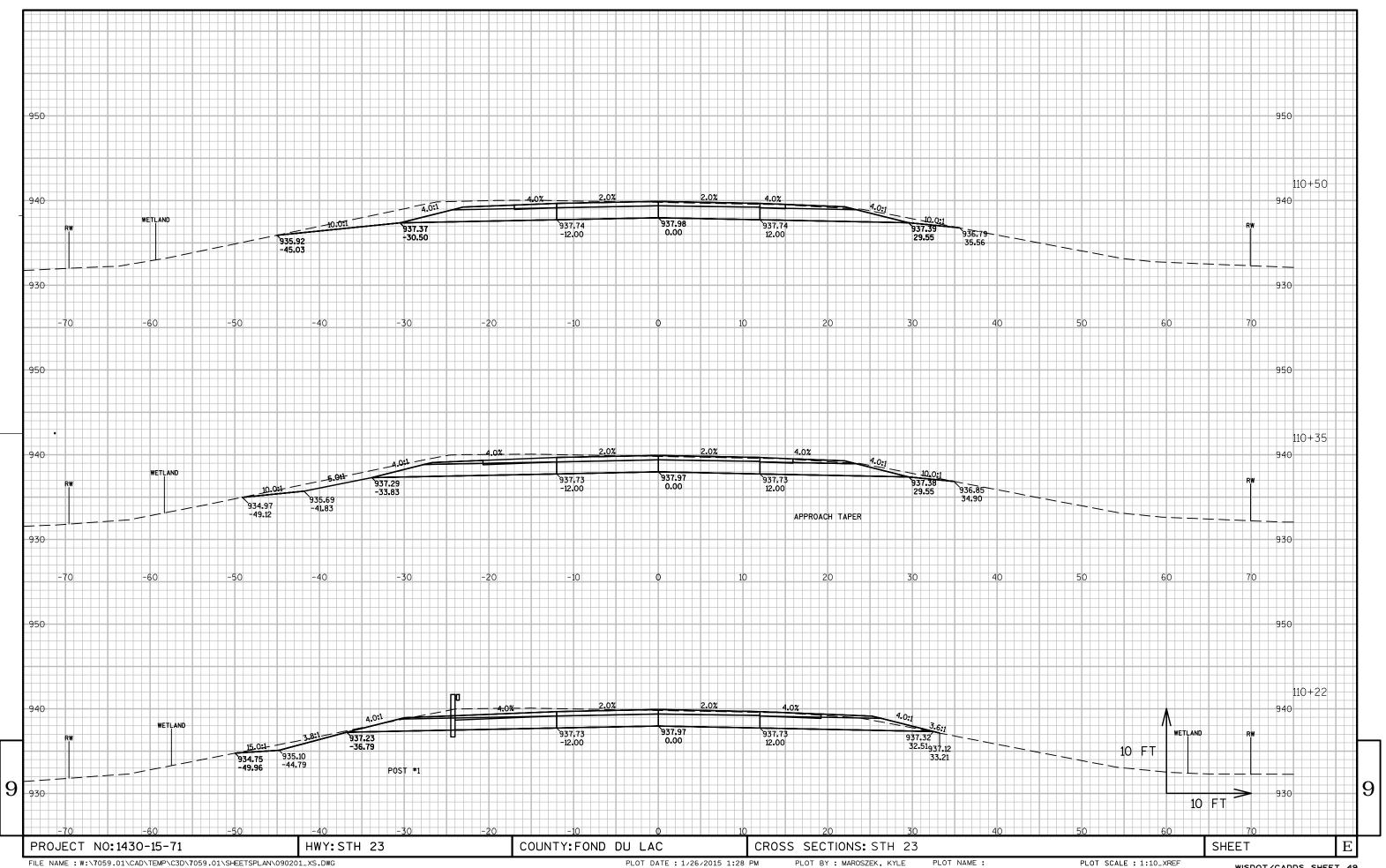


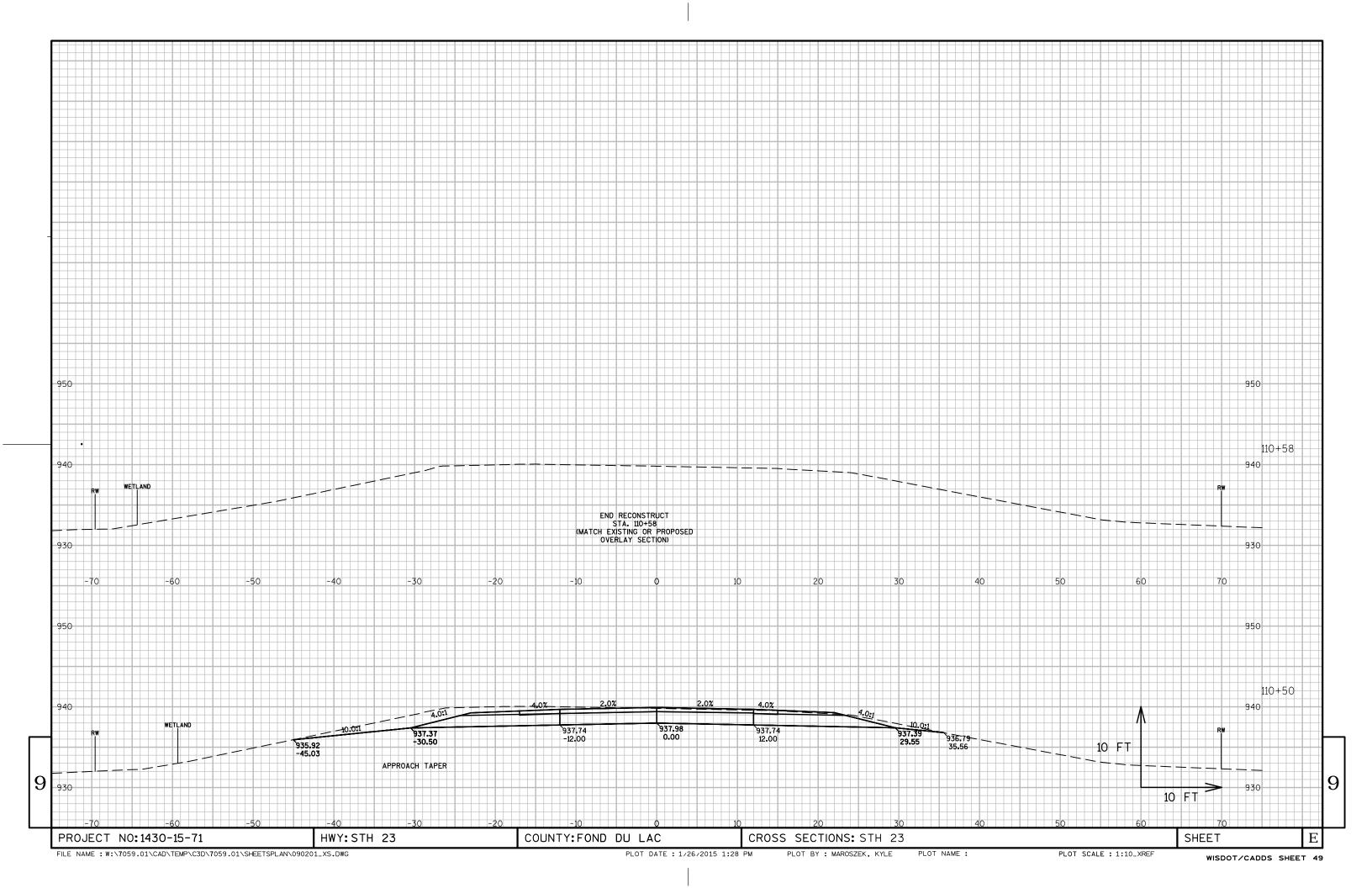














# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov