WIS MAY 2016 Section No. 3 Section No. 5 Section No. 6 Section No. 7 Section No. 9 Section No. 9 TOTAL SHEETS = 140 DESIGN DESIGNATION A.A.D.T. A.A.D.T. D.H.V. D.D. DESIGN SPEED **ESALS** CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS MARSH AREA WOODED OR SHRUB AREA

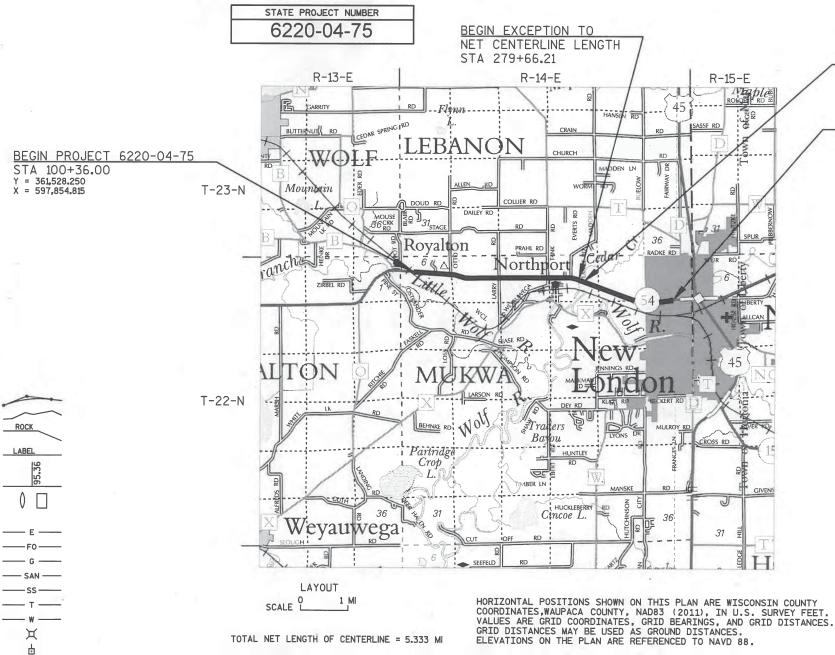
ORDER OF SHEETS STATE OF WISCONSIN Section No. 1 DEPARTMENT OF TRANSPORTATION Typical Sections and Details Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

WAUPACA - NEW LONDON

ROYALTON OVERHEAD TO JEANNE STREET

STH 54 WAUPACA COUNTY



FEDERAL PROJECT STATE PROJECT CONTRACT **PROJECT** 6220-04-75 WISC 2016176

> FND EXCEPTION TO NET CENTERLINE LENGTH STA 280+58.60

END PROJECT 6220-04-75 STA 382+86.00

> ORIGINAL PLANS PREPARED BY BARZ E-37634 **AMHERST**

> > STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY Surveyor Designer Project Manager Regional Examiner

APPROVED FOR THE DEPARTMENT

DATE: 1/19/2016

Regional Supervisor

C.O. Examiner

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

PROJECT LOCATION

PROFILE

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER

TELEPHONE

WATER

GRADE ELEVATION

MARSH OR ROCK PROFILE

CULVERT (Profile View)

(To be noted as such)

Plan and Profile

Sign Plates

Cross Sections

2017 = 10,400

2037 = 12,000

= 1.380

= 60/40 = 7.9%

= 55 MPH

= 1,715,500

SHANNON RILEY

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

WHEN THE QUANTITY OF THE ITEM OF BASE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON. THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER.

4-INCH HMA PAVEMENT SHALL BE CONSTRUCTED IN TWO (2) LAYERS. THE UPPER LAYER SHALL BE 1.75 INCHES HMA PAVEMENT 4 LT 58-28 S. THE LOWER LAYER SHALL BE 2.25 INCHES HMA PAVEMENT 3 LT 58-28 S.

6.25-INCH ASPHALTIC SURFACE AT CULVERT REPLACEMENT LOCATIONS SHALL BE CONSTRUCTED IN THREE (3) LAYERS.
THE UPPER LAYER SHALL BE 1.75 INCHES.
THE MIDDLE LAYER SHALL BE 2.25 INCHES.
THE LOWER LAYER SHALL BE 2.25 INCHES.

RUNOFF COEFFICIENT TABLE

					HYDROLOGIC SOIL GROUP							
		Α		В			С			D		
	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:							•					•
ASPHALT						.7095						
CONCRETE .8095												
BRICK	BRICK											
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS,	SHOULDE	RS				.4060						

HWY: STH 54

TOTAL PROJECT AREA = 98.443 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.855 ACRES

<u>UTILITIES</u>

AT&T WISCONSIN (COMMUNICATION LINE) JOSEPH KASSAB 221 WEST WISCONSIN STREET, 4TH FLOOR APPLETON, WI 54911 OFFICE 920-735-3206 MOBILE 920-202-4002 Jk572k@att.com

CHARTER COMMUNICATIONS

STEVENS POINT. WI 54481

rudi.rudiger@charter.com

(COMMUNICATION LINE)

5024 HEFFRON STREET

MOBILE 715-204-5339

RUDI RUDIGER

ATC MANAGEMENT, INC (ELECTRIC) DOUG VOSBERG 2489 RINDEN ROAD COTTAGE GROVE, WI 53527 608-877-7650 dvosberg@atcllc.com

WE ENERGIES (GAS/PETROLEUM)

PO BOX 1699

920-380-3449

TOM BORCHART

APPLETON, WI 54912-9705

WE ENERGIES
(ELECTRIC)
STEVE ARMSTRONG
800 S. LYNDALE DRIVE
APPLETON, WI 54912-1699
920-380-3563
steven.armstrong@we-energies.com

NEW LONDON, WI 54961
OFFICE 920-982-8503
MOBILE 920-538-5566
Jbodoh@newlondonwl.org

SEND ALL WE ENERGIES CORRESPONDENCE TO:

NEW LONDON DEPT. OF PUBLIC WORKS

(SEWER)

JEFFREY BODOH

215 N. SHAWANO STREET

WE ENERGIES (GAS & ELECTRIC)
ATTN: LATROY BRUMFIELD
333 W. EVERETT STREET, A299
MILWAUKEE, WI 53203
414-221-5617
latroy.brumfield@we-energies.com

NEW LONDON UTILITIES (WATER) MICHAEL PINCH 400 E. NORTH WATER STREET NEW LONDON, WI 54961 OFFICE 920-982-8516 MOBILE 920-851-3152 mpinch@wppienergy.org

NEW LONDON UTILITIES
(ELECTRIC)
MICHAEL FREDERICK
400 E. NORTH WATER STREET
NEW LONDON, WI 54961
OFFICE 920-359-0784
MOBILE 920-359-0784
mfrederick@wpplenergy.org

ANR PIPELINE COMPANY
(GAS/PETROLEUM)
ANR PIPELINE COMPANY
DUANE PRONDZINSKI
2629 SUNSET DRIVE
STEVENS POINT, WI 54482
OFFICE 715-295-3143
MOBILE 715-460-4322
duane_prondzinski@transcanada.com

thomas.borchart@we-energies.com

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

DNR LIAISON
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
BOBBI JO FISCHER
427 EAST TOWER DRIVE, SUITE 100
WAUTOMA, WI 54982
920-787-3015
bobbi.fischer@wisconsin.gov

GENERAL NOTES AND UTILITY CONTACTS

SHEET

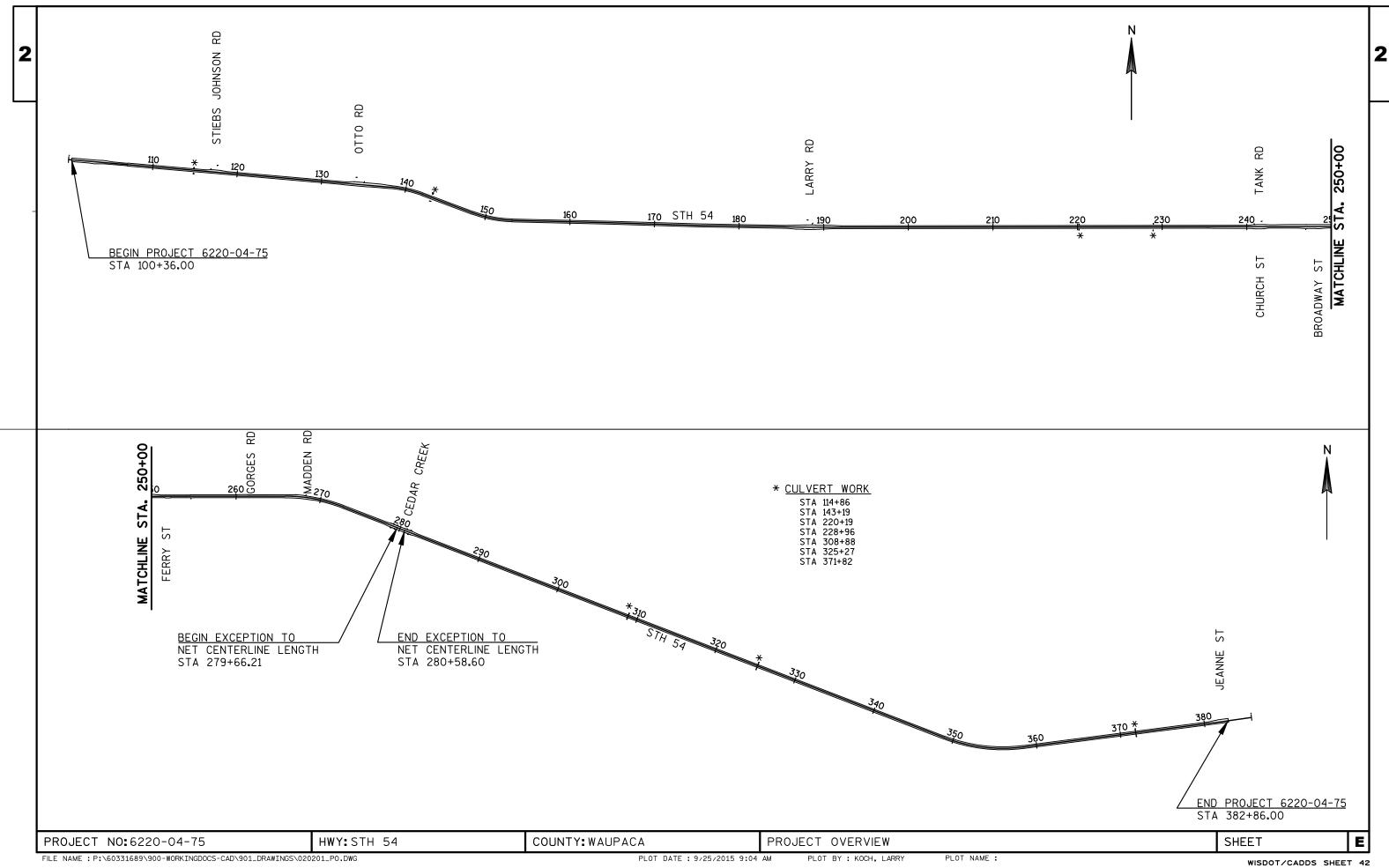
E

COUNTY: WAUPACA GENERAL

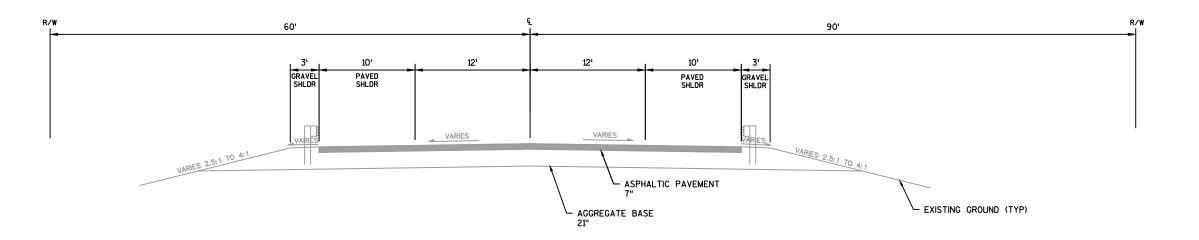
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PROJECT NO:6220-04-75

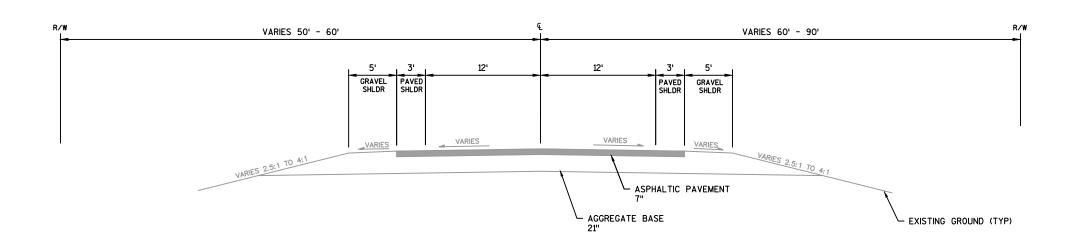
PLOT NAME :







TYPICAL EXISTING SECTION - STH 54 STA 100+36 - STA 103+00, RT STA 100+36 - STA 104+11, LT

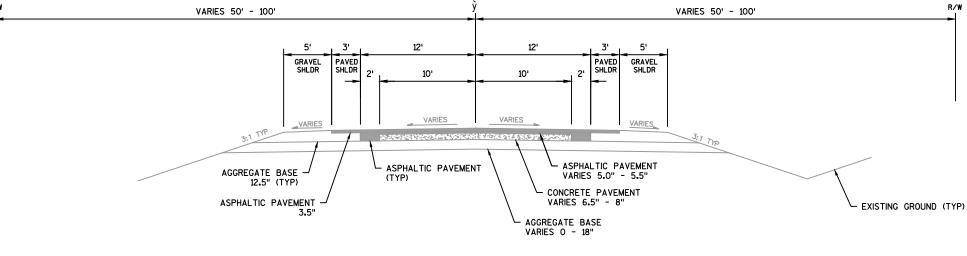


TYPICAL EXISTING SECTION - STH 54

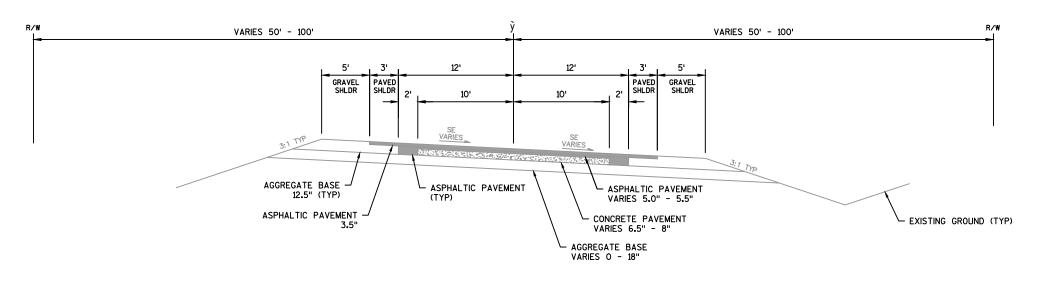
STA 103+00 - STA 107+30, RT
STA 104+11 - STA 107+30, LT

PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA TYPICAL SECTIONS SHEET **E**



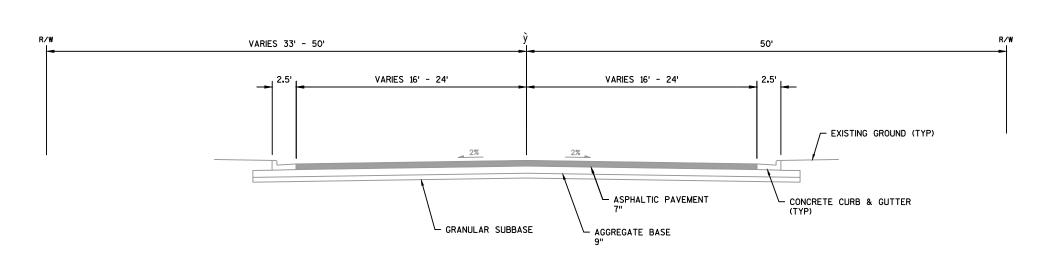


TYPICAL EXISTING SECTION - STH 54 STA 107+30 - STA 136+61 STA 143+67 - STA 146+78 STA 154+74 - STA 247+02 STA 254+11 - STA 264+31 STA 274+35 - STA 347+36 STA 359+91 - STA 382+86



TYPICAL SUPERELEVATED EXISTING SECTION - STH 54 STA 136+61 - STA 143+67 STA 146+78 - STA 154+74 STA 264+31 - STA 274+35 STA 347+36 - STA 359+91

COUNTY: WAUPACA Ε PROJECT NO:6220-04-75 HWY: STH 54 TYPICAL SECTIONS SHEET



TYPICAL EXISTING SECTION - STH 54 STA 247+02 - STA 254+11

PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA TYPICAL SECTIONS SHEET **E**

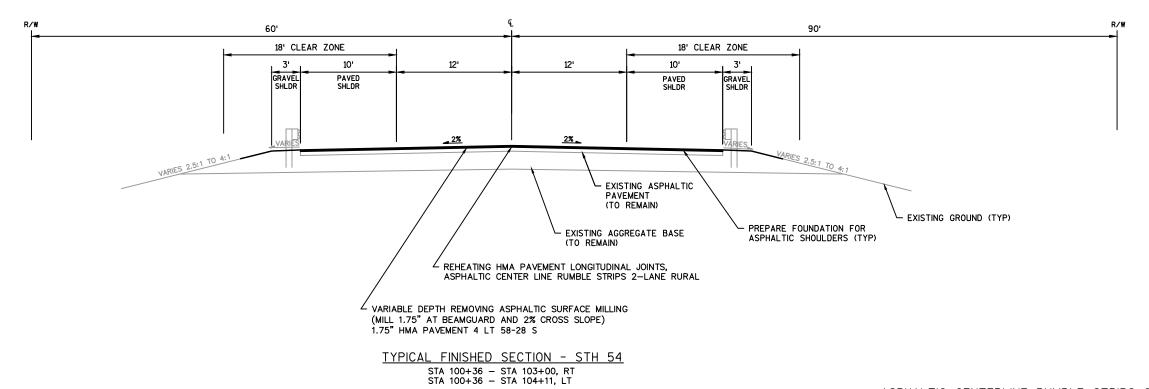
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PLOT DATE: 9/4/2015 1:19 PM PLOT BY: KOCH, LARRY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

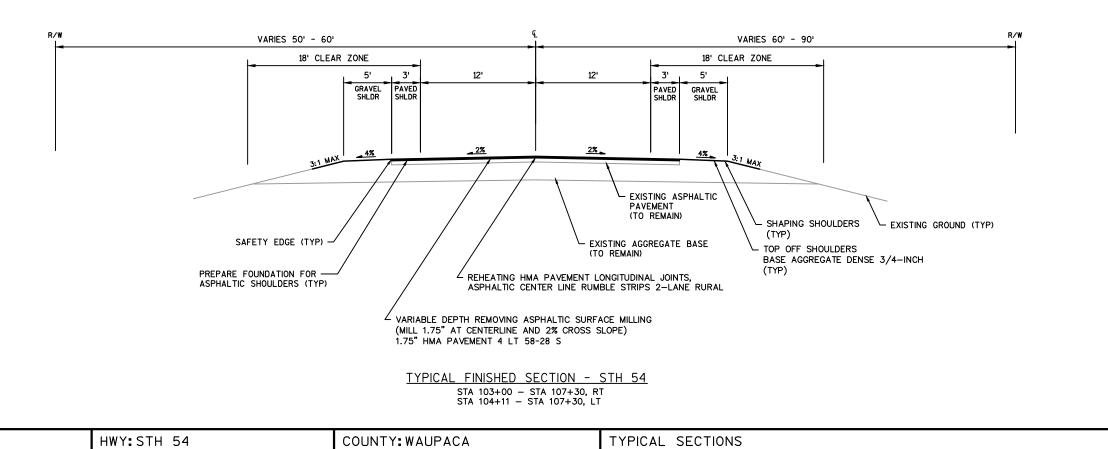




ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

STA 100+61 - STA 233+50
STA 262+80 - STA 379+91

SEE SDD "2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING" FOR LAYOUT



FILE NAME : P:\60331689\900-WORKINGDOCS-CAD\901_DRAWINGS\020301_TS.DWG

PROJECT NO:6220-04-75

PLOT DATE: 12/2/2015 1:00 PM

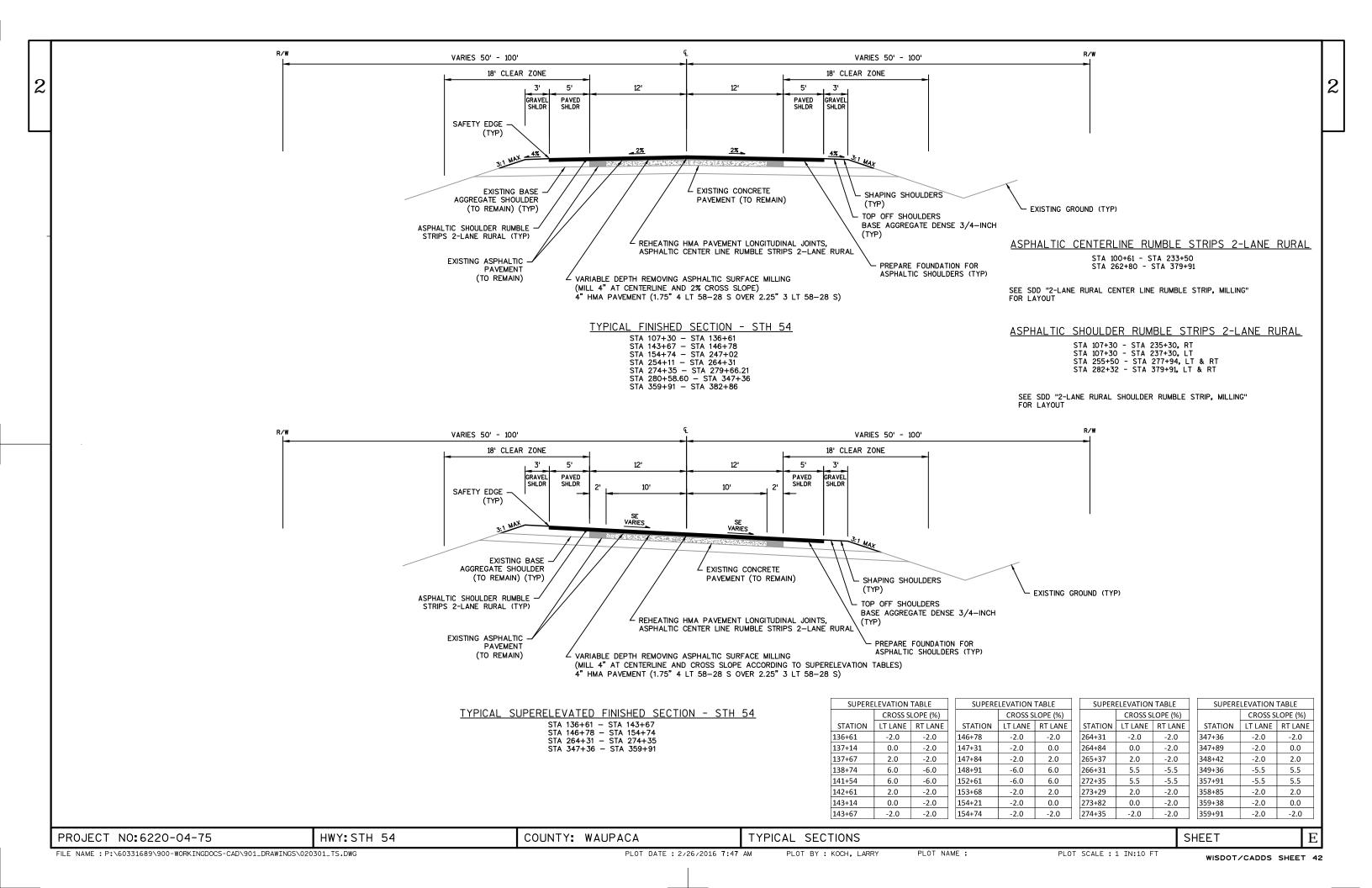
PLOT BY : KOCH, LARRY

PLOT NAME: PLOT SCALE:

PLOT SCALE : 1 IN:10 FT WISDOT CARDS

SHEET

E



VARIES 50' - 100'

VARIES 50' - 24'

EXISTING ASPHALTIC PAVEMENT (TO REMAIN) (TYP)

CONCRETE CURB & GUTTER (TYP)

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS,

EXISTING GRANULAR SUBBASE (TO REMAIN)

4" REMOVING ASPHALTIC SURFACE MILLING 4" HMA PAVEMENT (1.75" 4 LT 58-28 S OVER 2.25" 3 LT 58-28 S)

TYPICAL FINISHED SECTION - STH 54 STA 247+02 - STA 254+11

PROJECT NO:6220-04-75 HWY:STH 54 COUNTY: WAUPACA TYPICAL SECTIONS SHEET E

FILE NAME: P:\60331689\900-WORKINGDOCS-CAD\901_DRAWINGS\020301_TS.DWG

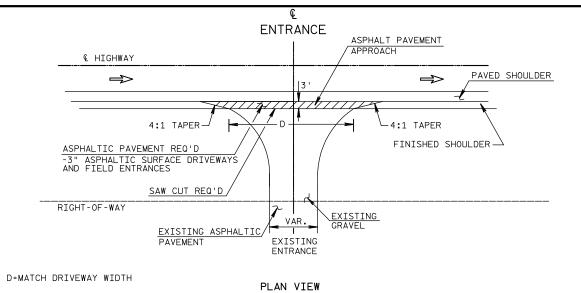
PLOT DATE : 2/26/2016 7:46 AM

PLOT BY : KOCH, LARRY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT





RURAL DRIVEWAY INTERSECTION DETAIL (PE's, FE's & CE'S)

- CURB & GUTTER TO REMAIN -MILL & REMOVE LIMITS SAWCUT REQUIRED 4" REMOVING ASPHALTIC SURFACE MILLING 4" HMA PAVEMENT

MILL & REMOVE LIMITS SAWCUT REQUIRED 4" REMOVING ASPHALTIC SURFACE MILLING 4" HMA PAVEMENT

LOCATIONS

PROJECT NO:6220-04-75

STIEBS JOHNSON ROAD
OTTO ROAD
LARRY ROAD
TANK ROAD
CHURCH STREET
BROADWAY STREET
FERRY STREET MADDEN ROAD JEANNE STREET

LOCATIONS

GORGES ROAD

SIDEROAD DETAIL

COUNTY: WAUPACA HWY: STH 54

CONSTRUCTION DETAILS

PLOT NAME :

SHEET

Ε

TRANSITION CUT TRANSITION CUT -PIPE TRENCH EXCAVATION CULVERT + + PIPE VARIES'

100'

12" BASE AGGREGATE DENSE 1 1/4-INCH

6.25" ASPHALTIC SURFACE

TRANSITION HEIGHT FT	CUT VOL CY
4.5	320
4.5	440
4.5	430
	4.5 4.5

QUANTITIES FOR INFORMATIONAL PURPOSES

NOTE: REUSE MATERIAL REMOVED IN TRANSITION CUT AND PIPE TRENCH EXCAVATIONS AS BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER TO USE BACKFILL GRANULAR

> PIPE TRENCH EXCAVATION, EXCLUDING TRANSITION CUT IS CONSIDERED INCIDENTAL TO PIPE INSTALLATION. TRANSITION CUT WILL BE PAID FOR AS COMMON EXCAVATION.

TRANSITION CUT WILL BE SHOULDER POINT TO SHOULDER POINT.

CULVERT PIPE TRANSITION

STA 308+88 STA 325+27 STA 371+82

FILE NAME : P:\60331689\900-WORKINGDOCS-CAD\901_DRAWINGS\021001_CD.DWG

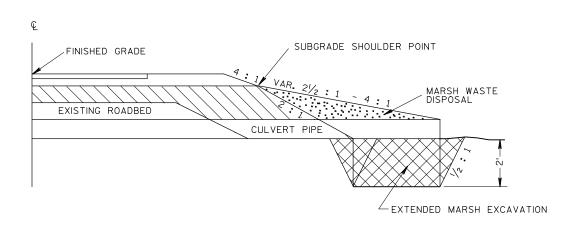
PLOT DATE: 12/2/2015 1:03 PM

PLOT SCALE : ########

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL PAID AS ROCK BAGS

APPROX. LOCATIONS

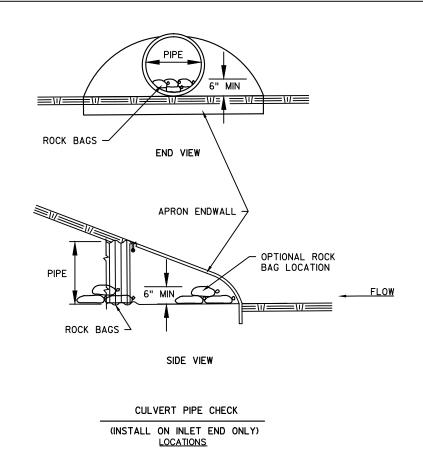
STA 278+70 RT STA 278+80 LT STA 281+40 LT STA 281+60 RT



BACKFILL WITH SELECT CRUSHED MATERIAL

MARSH EXCAVATION AT CULVERT

HWY:STH 54



STA 114+86 LT STA 143+19 LT STA 220+19 LT STA 228+96 LT STA 308+88 LT STA 325+27 LT STA 371+82 LT COUNTY: WAUPACA CONSTRUCTION DETAILS SHEET

PROJECT NO:6220-04-75

(TYP)

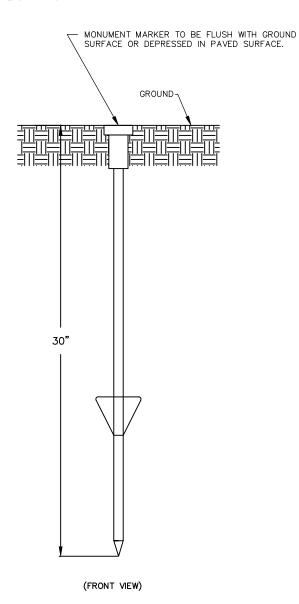
Ε





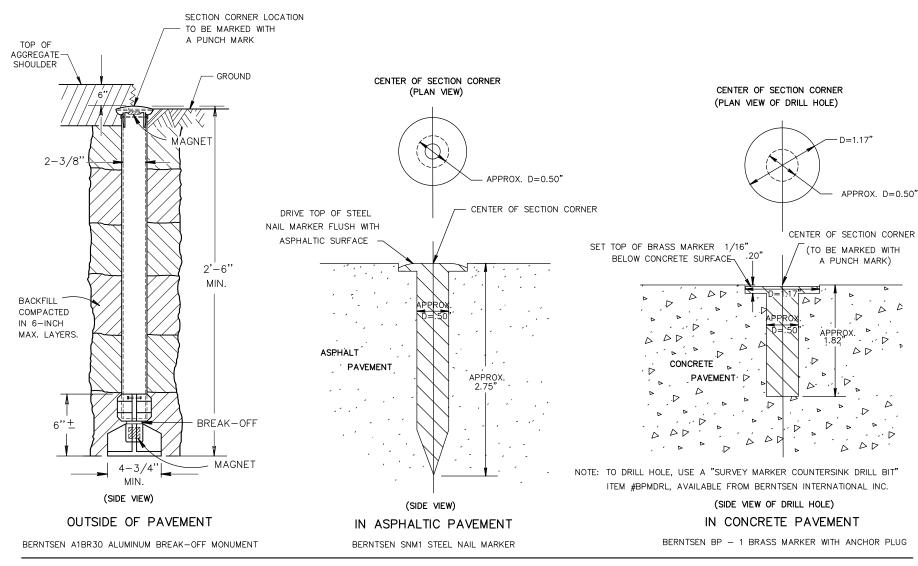
WIS DOT MONUMENT CAP MARKER LOGO (SSDR130)

CONTRACTOR TO ORDER LANDMARK REFERENCE MONUMENTS WITH THE ABOVE STAMPING



BERNSTEN DRIVABLE MONUMENT SSDR130

LANDMARK REFERENCE MONUMENT (TIES ONLY)



SECTION CORNER MONUMENTS

GENERAL NOTES

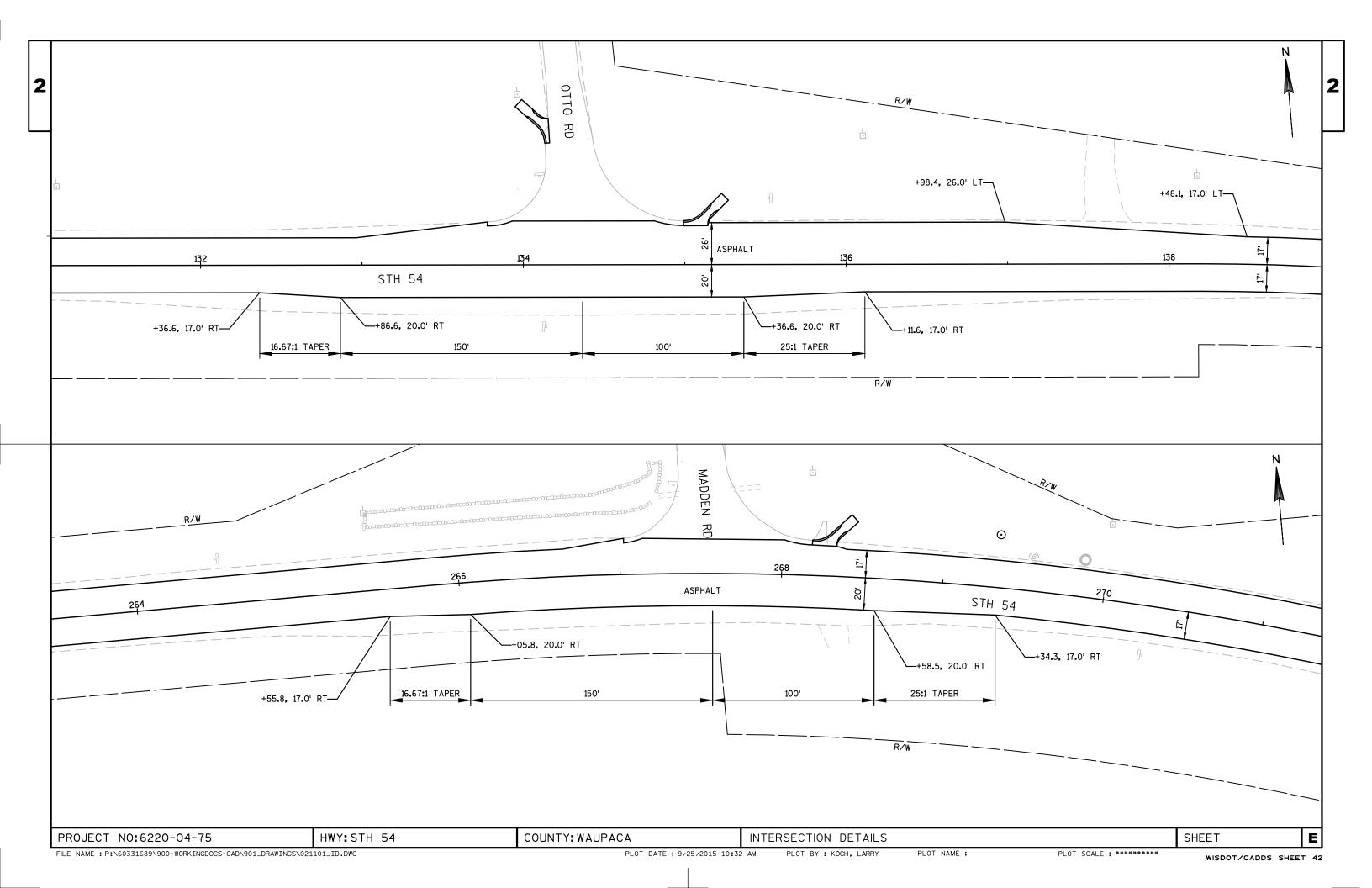
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

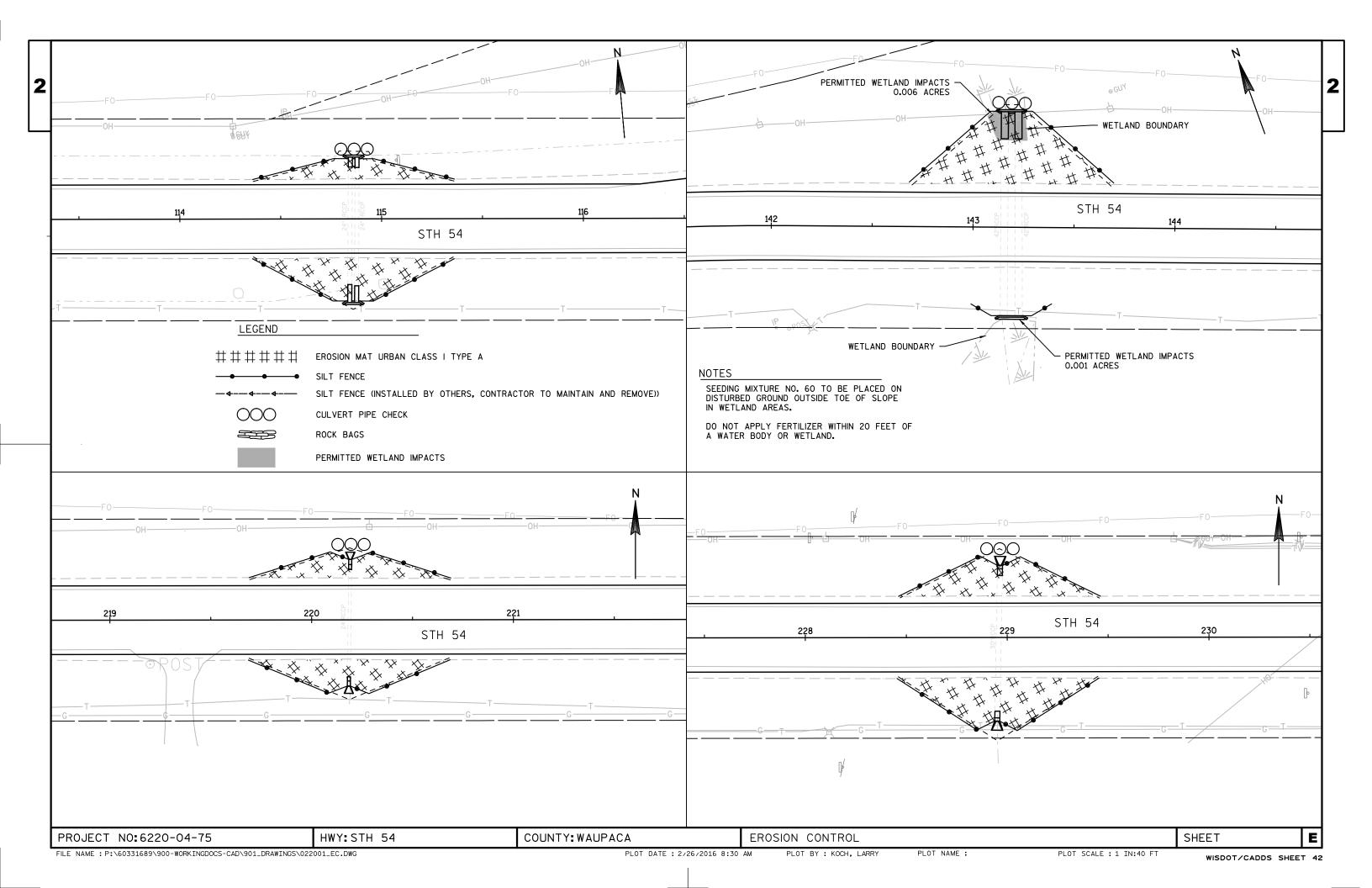
LOCATE LANDMARK REFERENCE MONUMENTS OUTSIDE THE CONSTRUCTION LIMITS AND WITHIN WISDOT RIGHT OF WAY. LOCATION TO BE APPROVED BY THE ENGINEER.

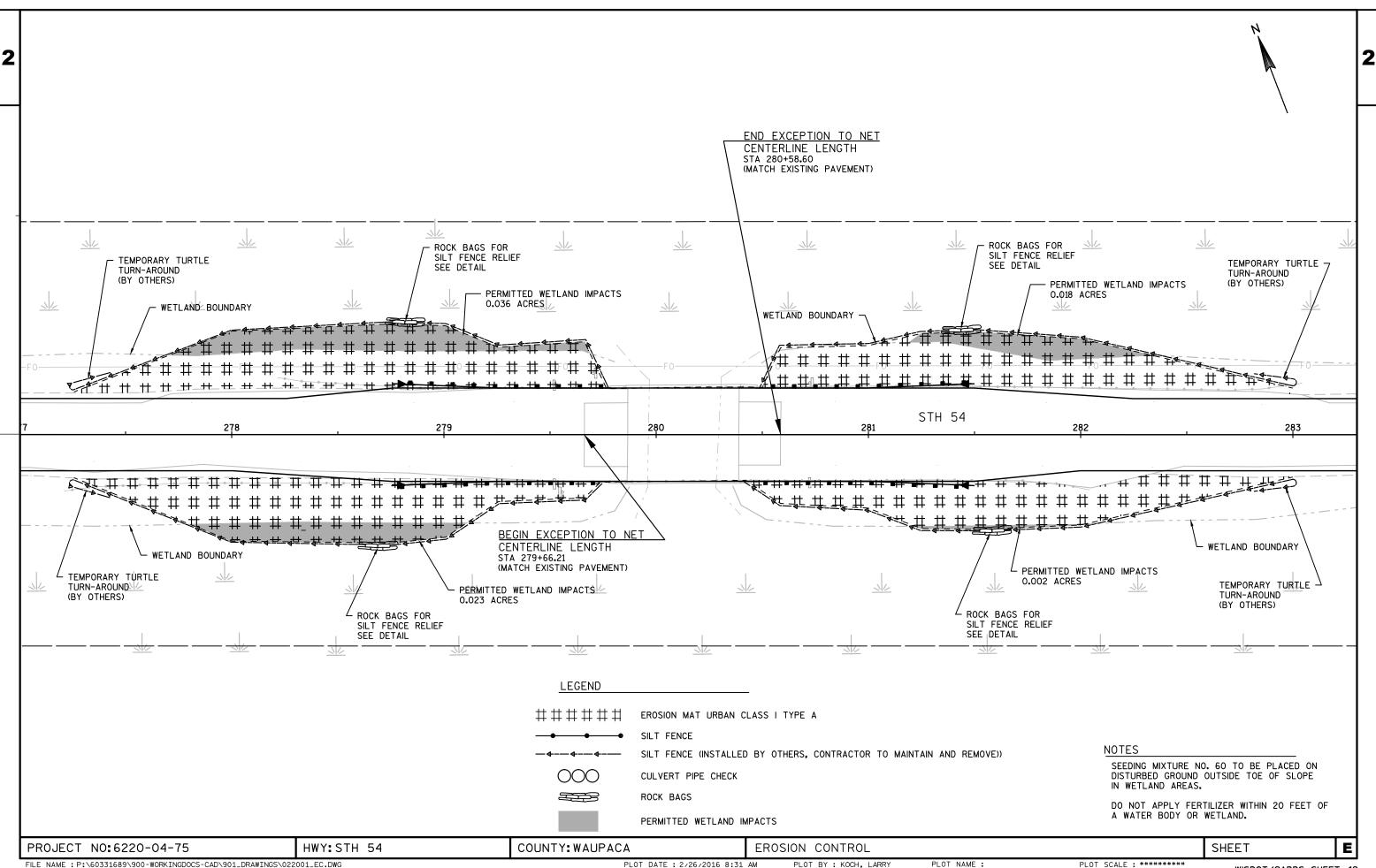
CONTRACTOR WILL SUPPLY ALL REQUIRED SURVEY MONUMENTS.

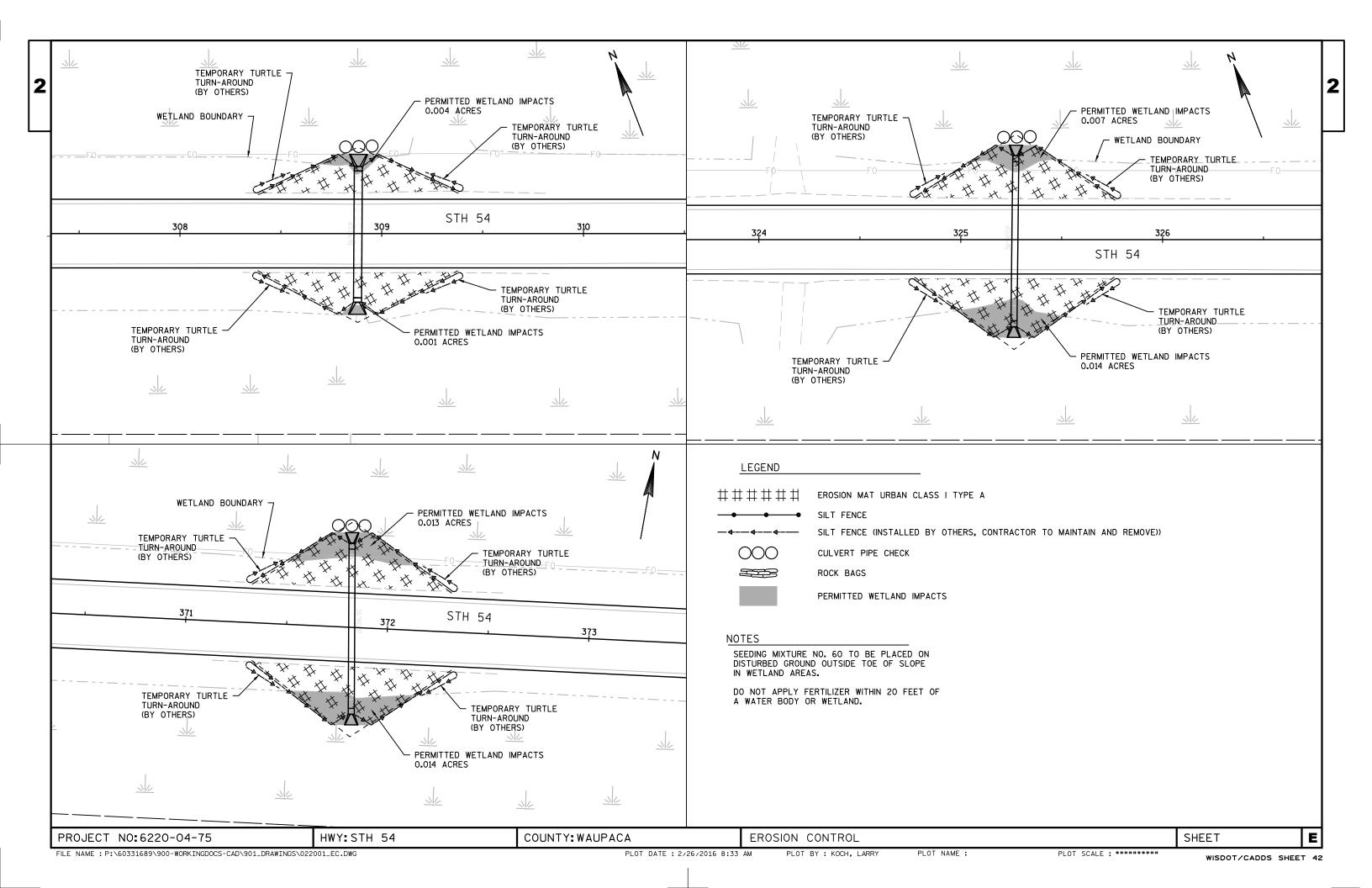
SECTION CORNER MONUMENT AND LANDMARK REFERENCE MONUMENT DETAIL

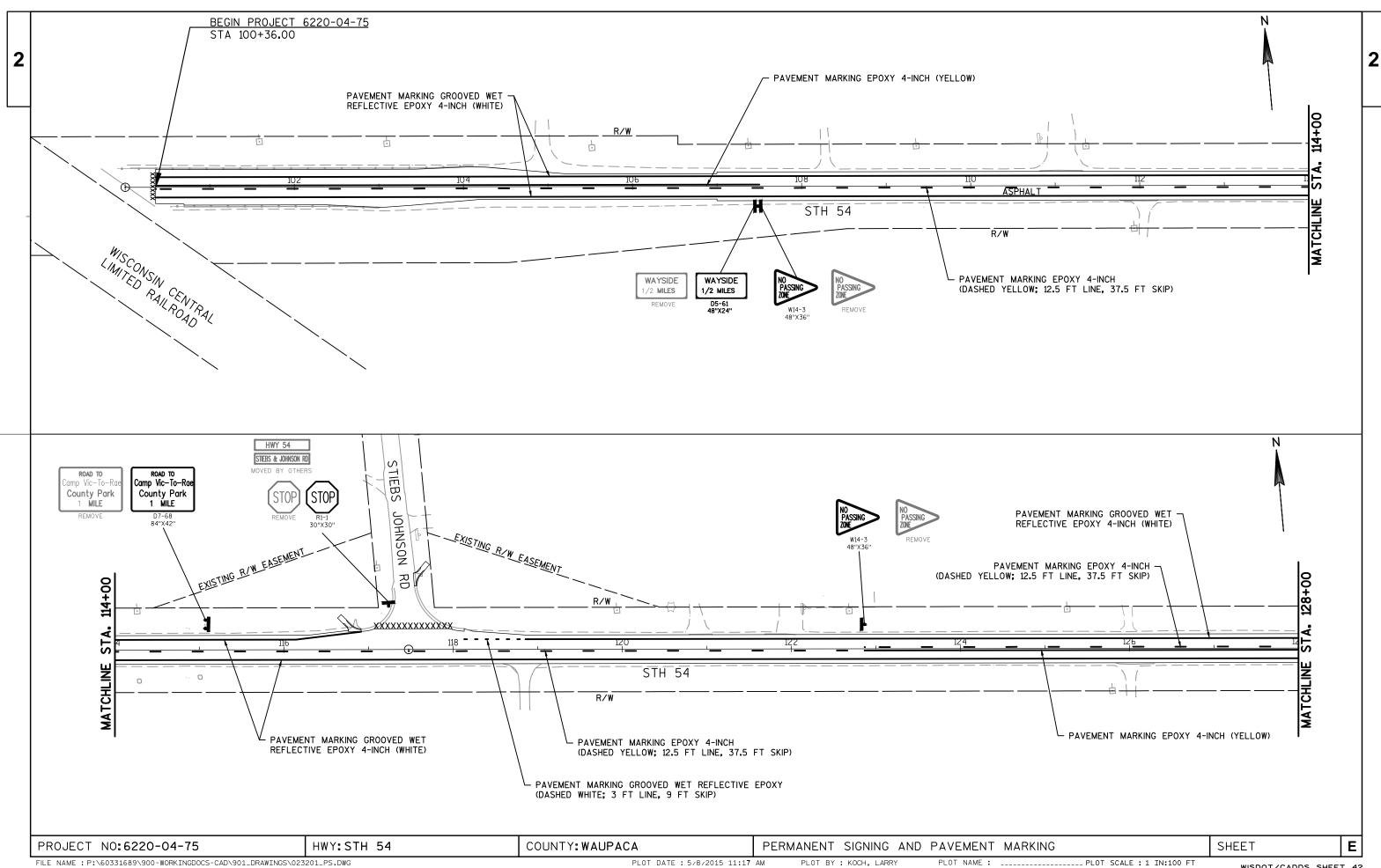
PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA CONSTRUCTION DETAILS SHEET

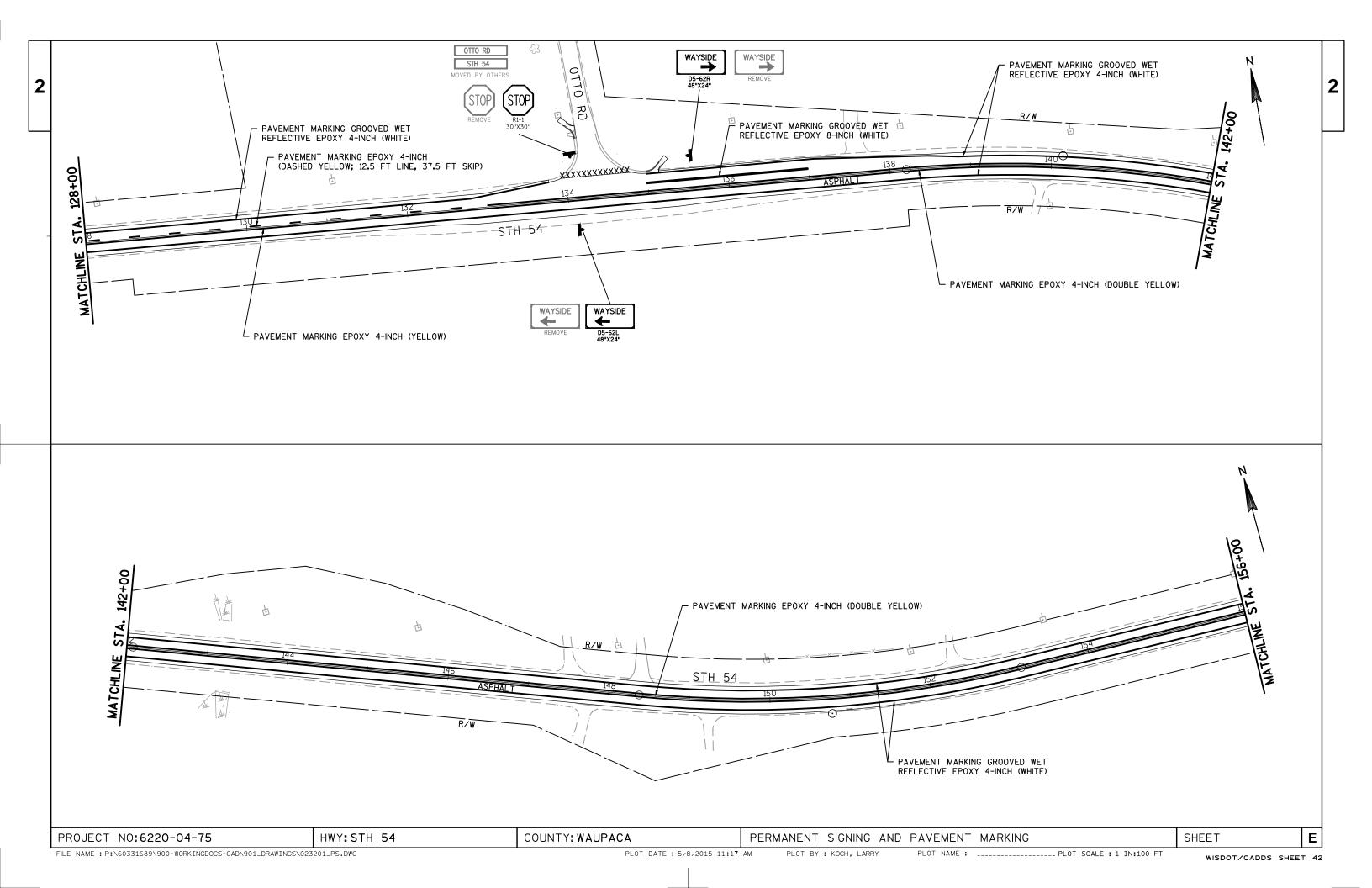


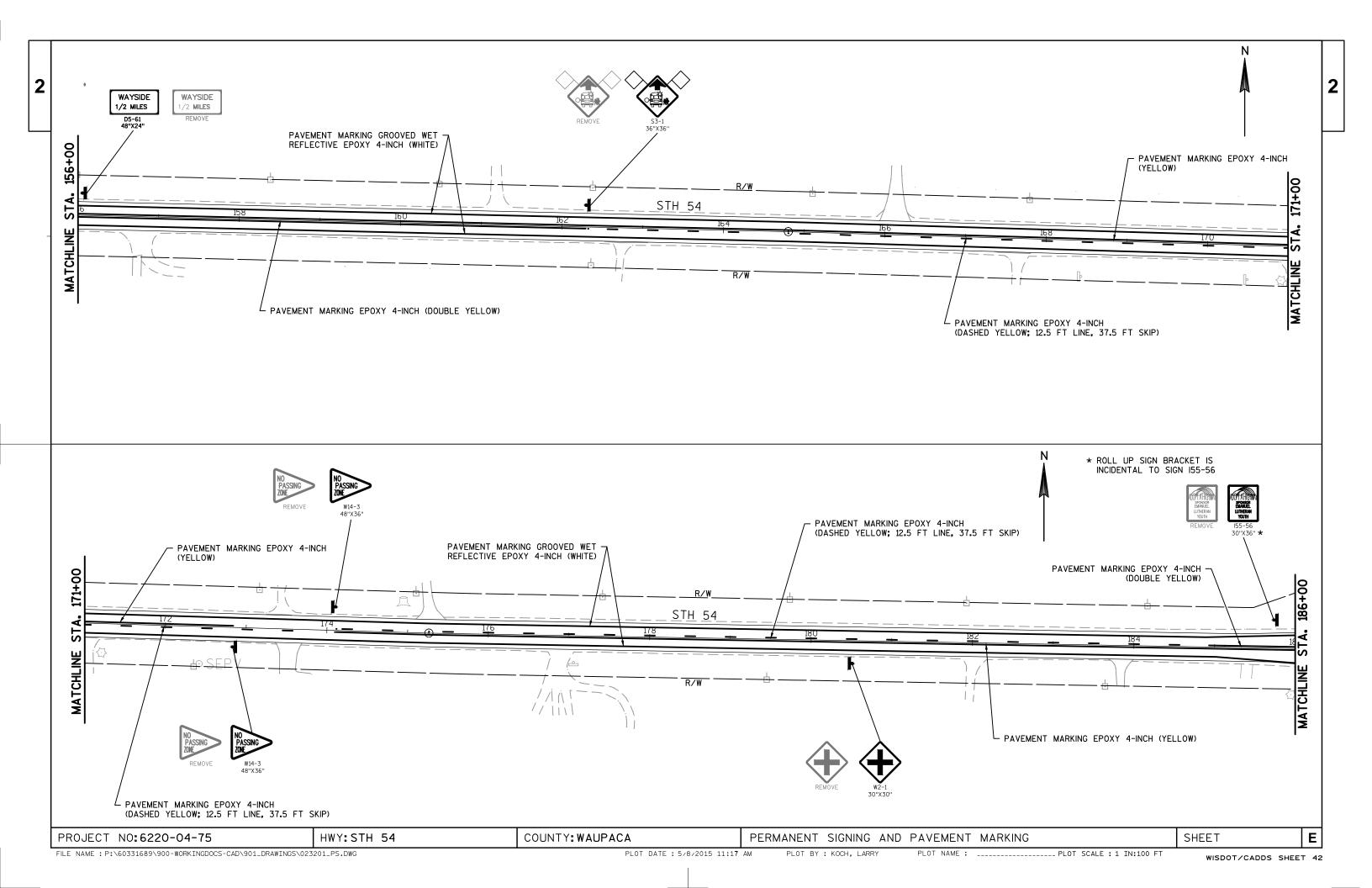


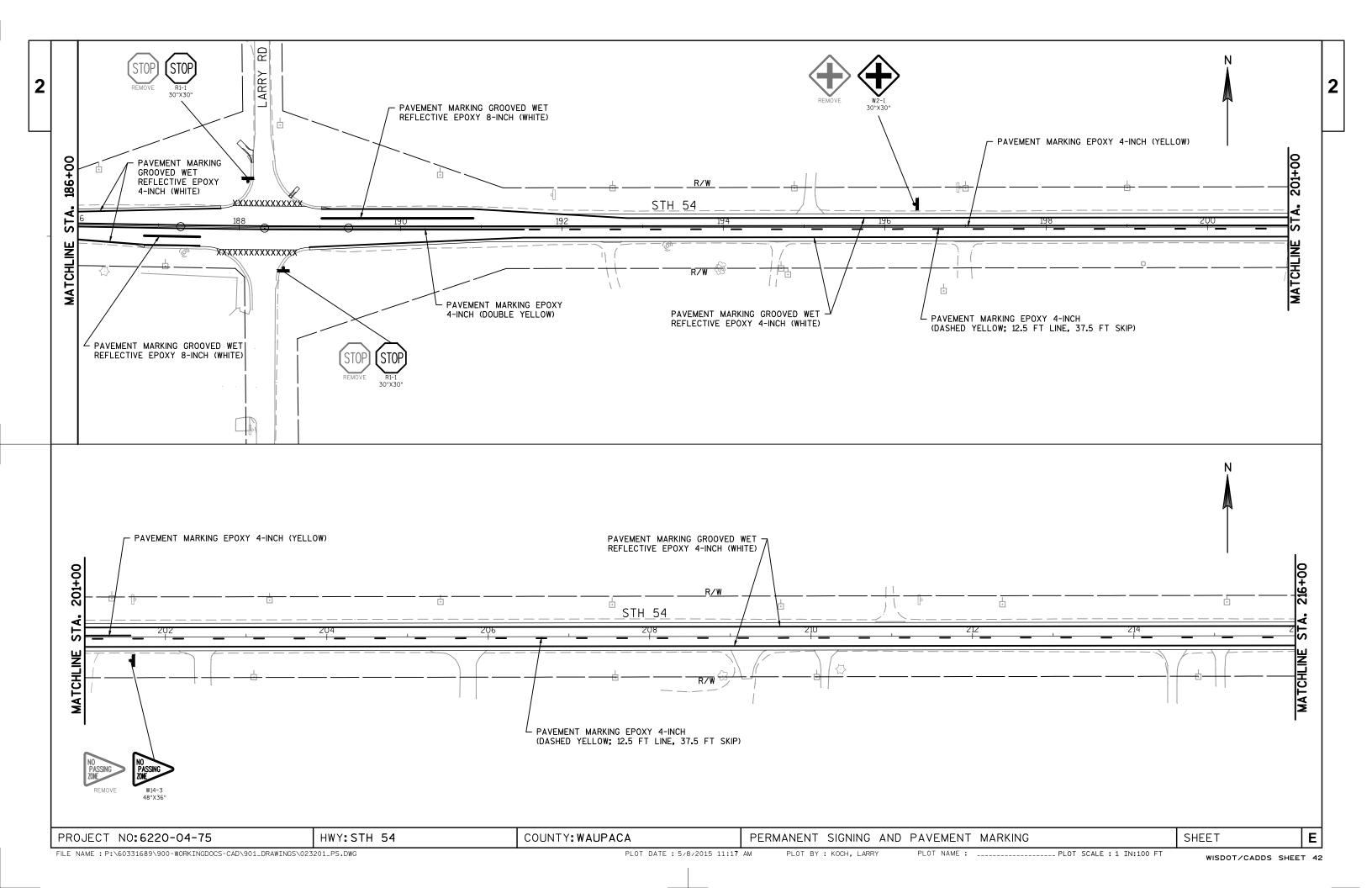


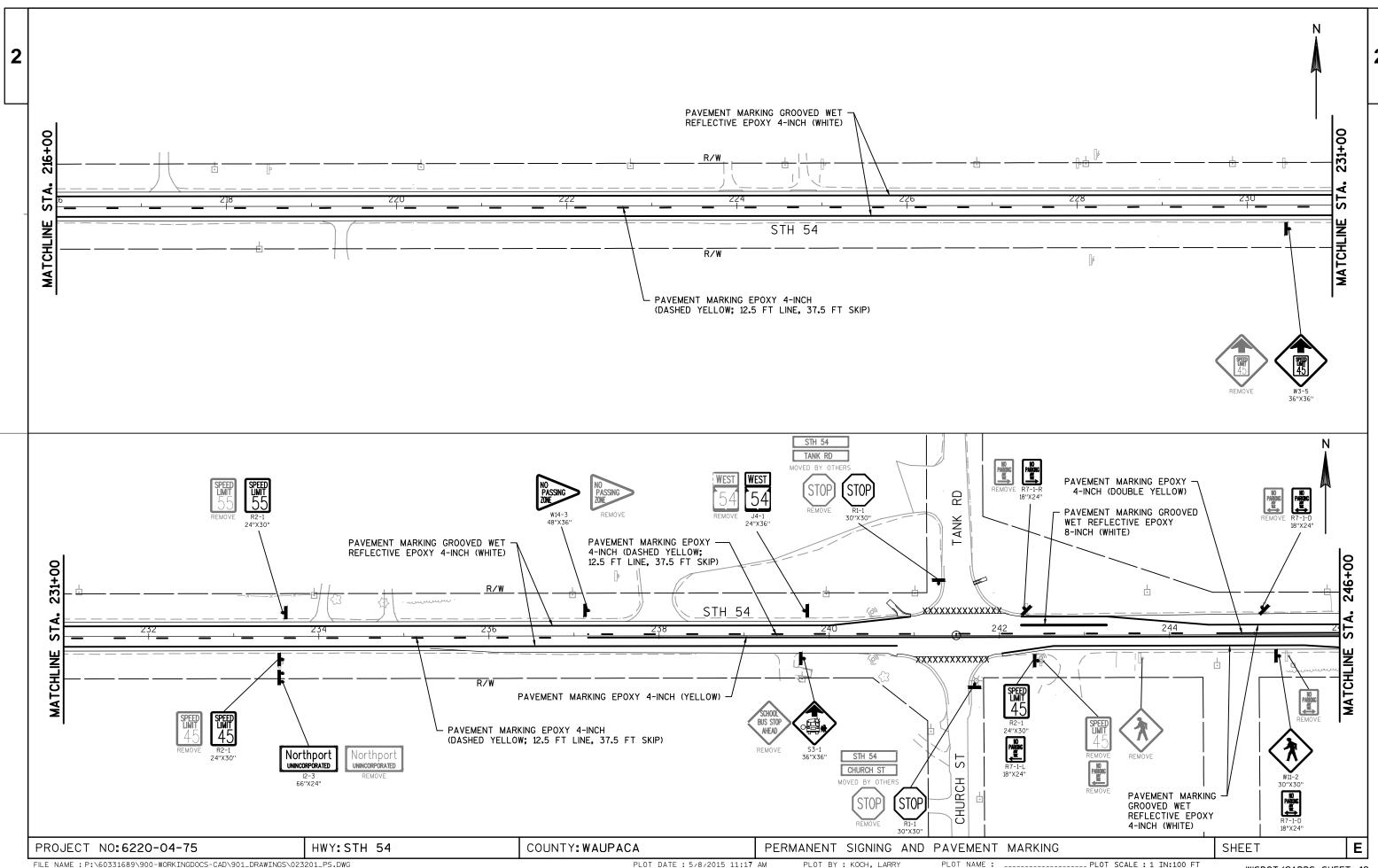




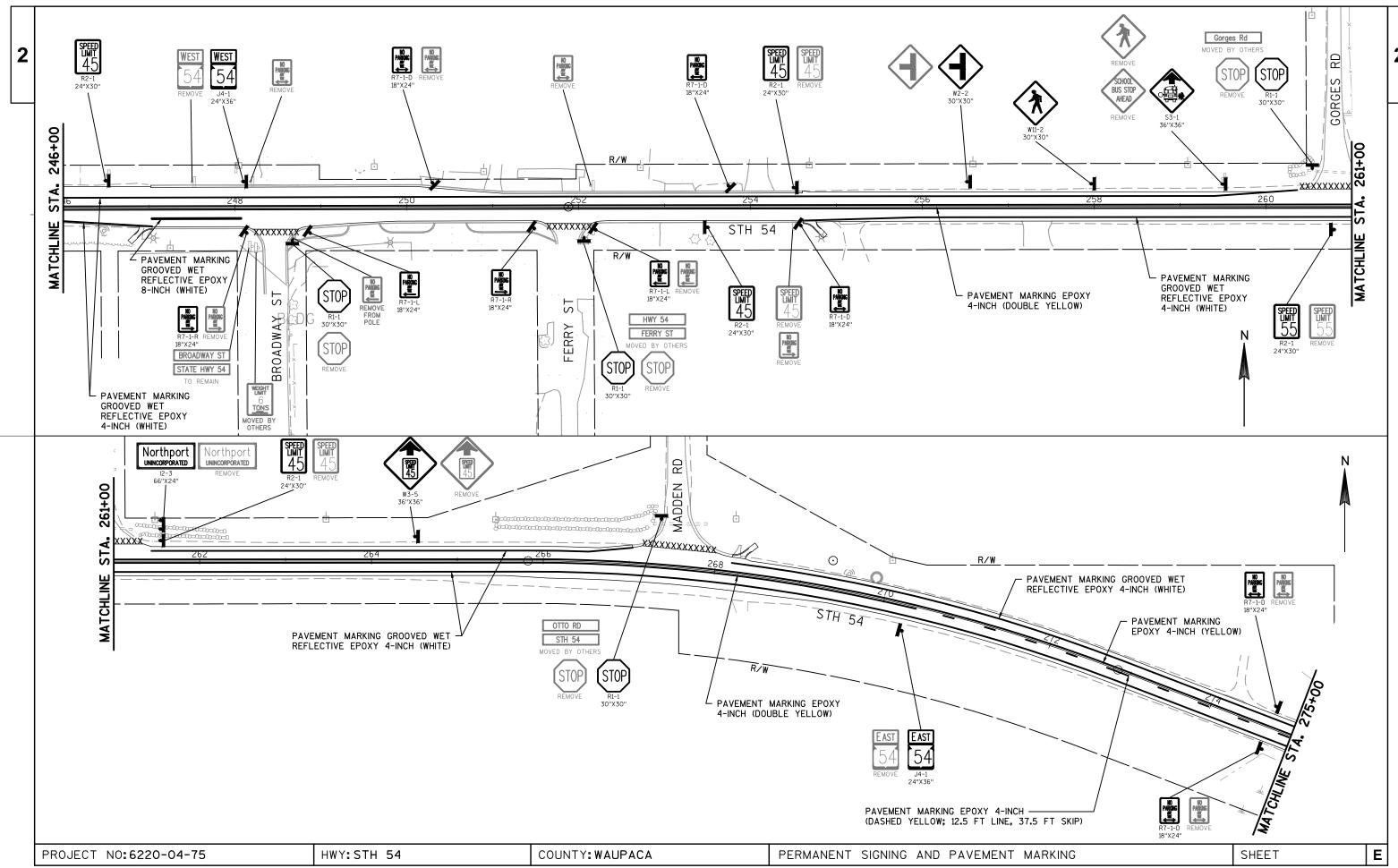








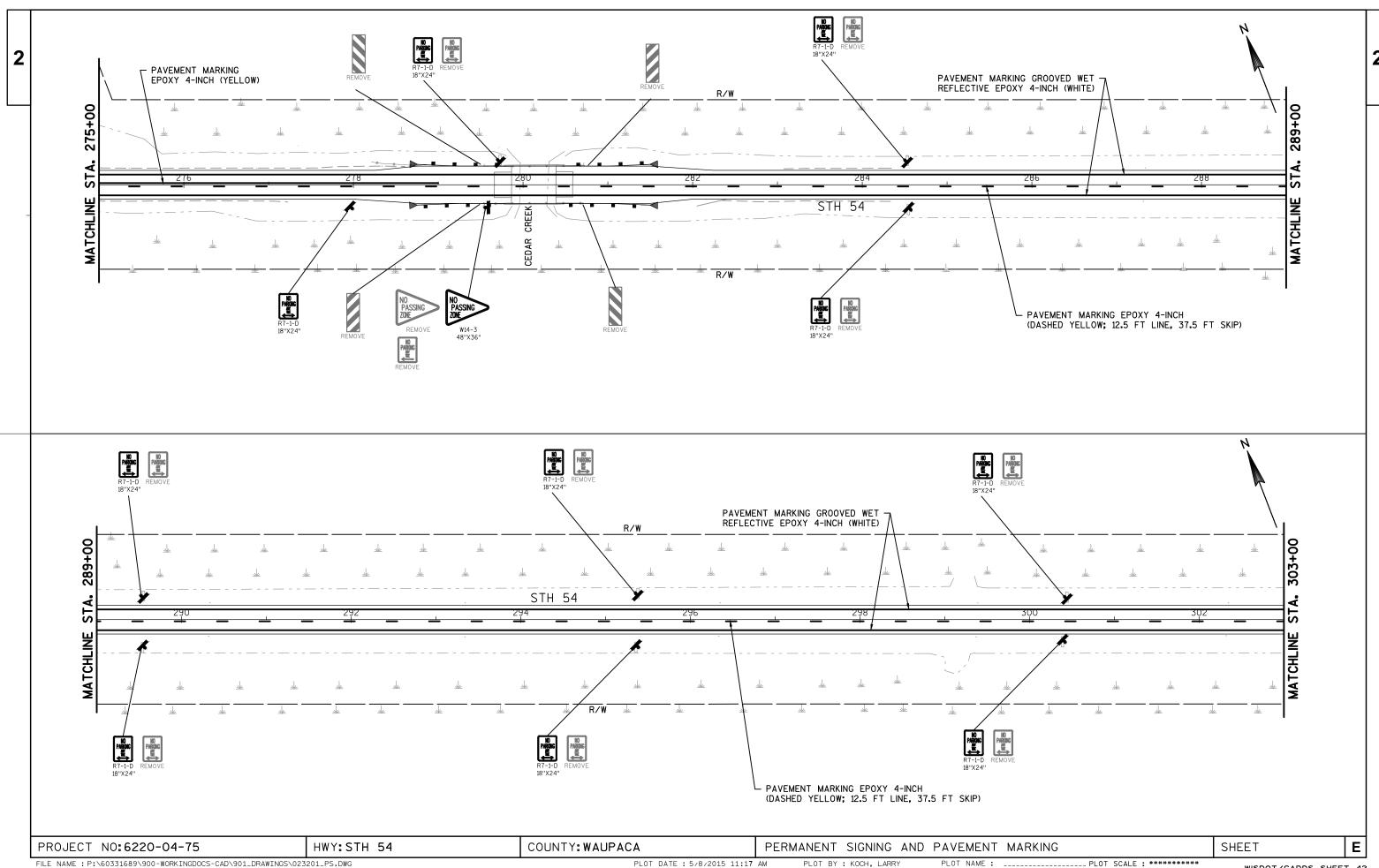
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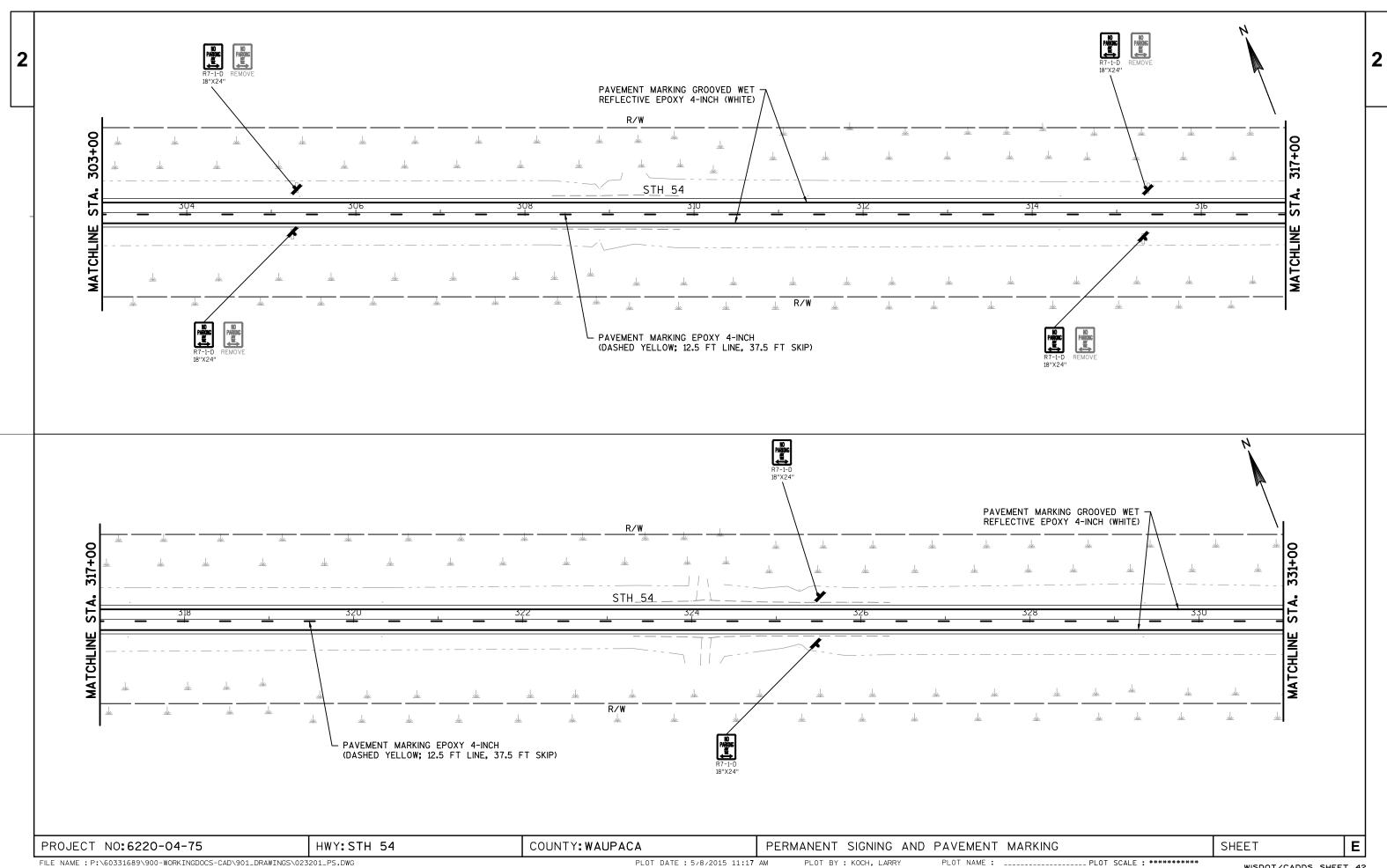


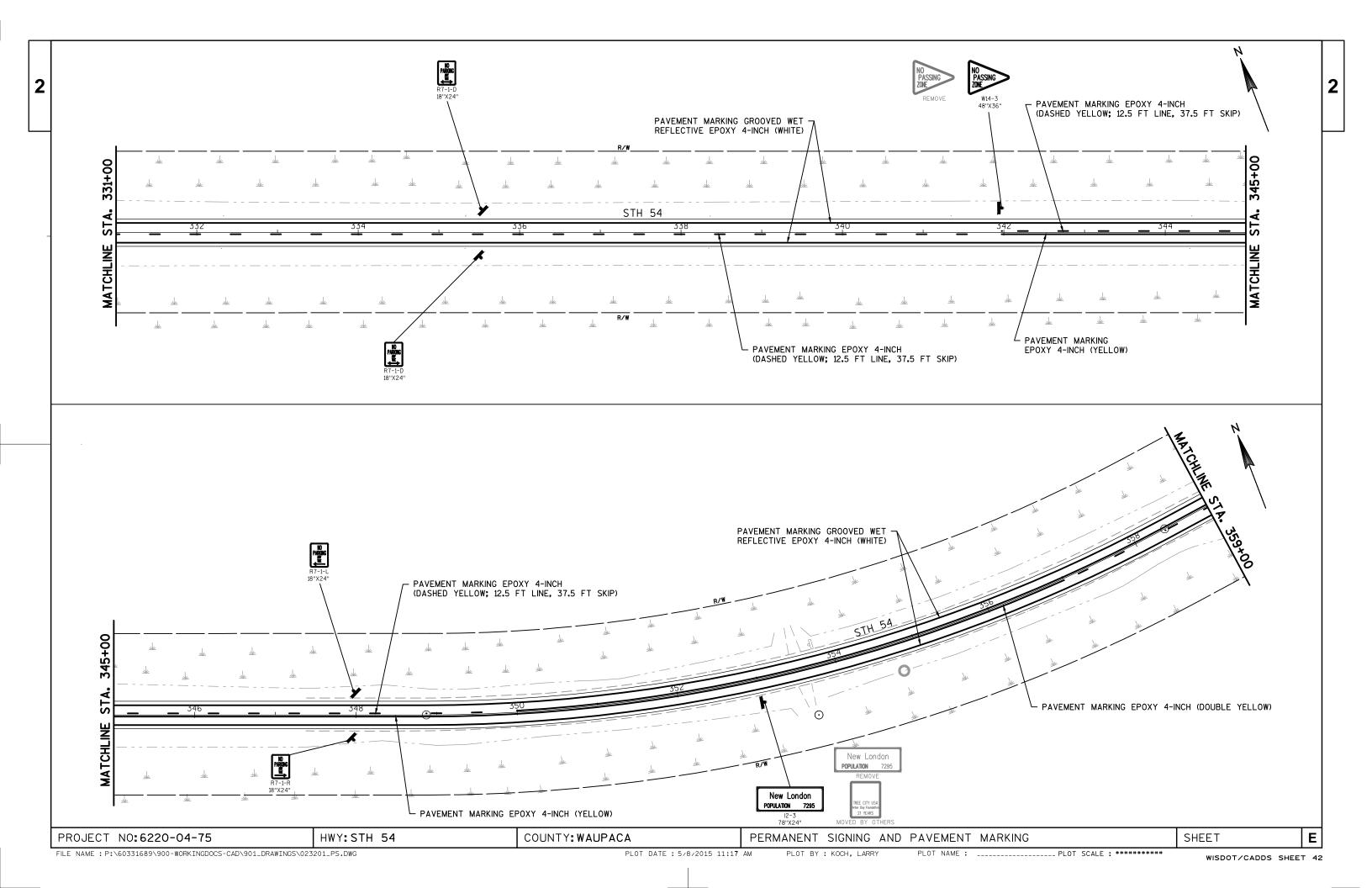
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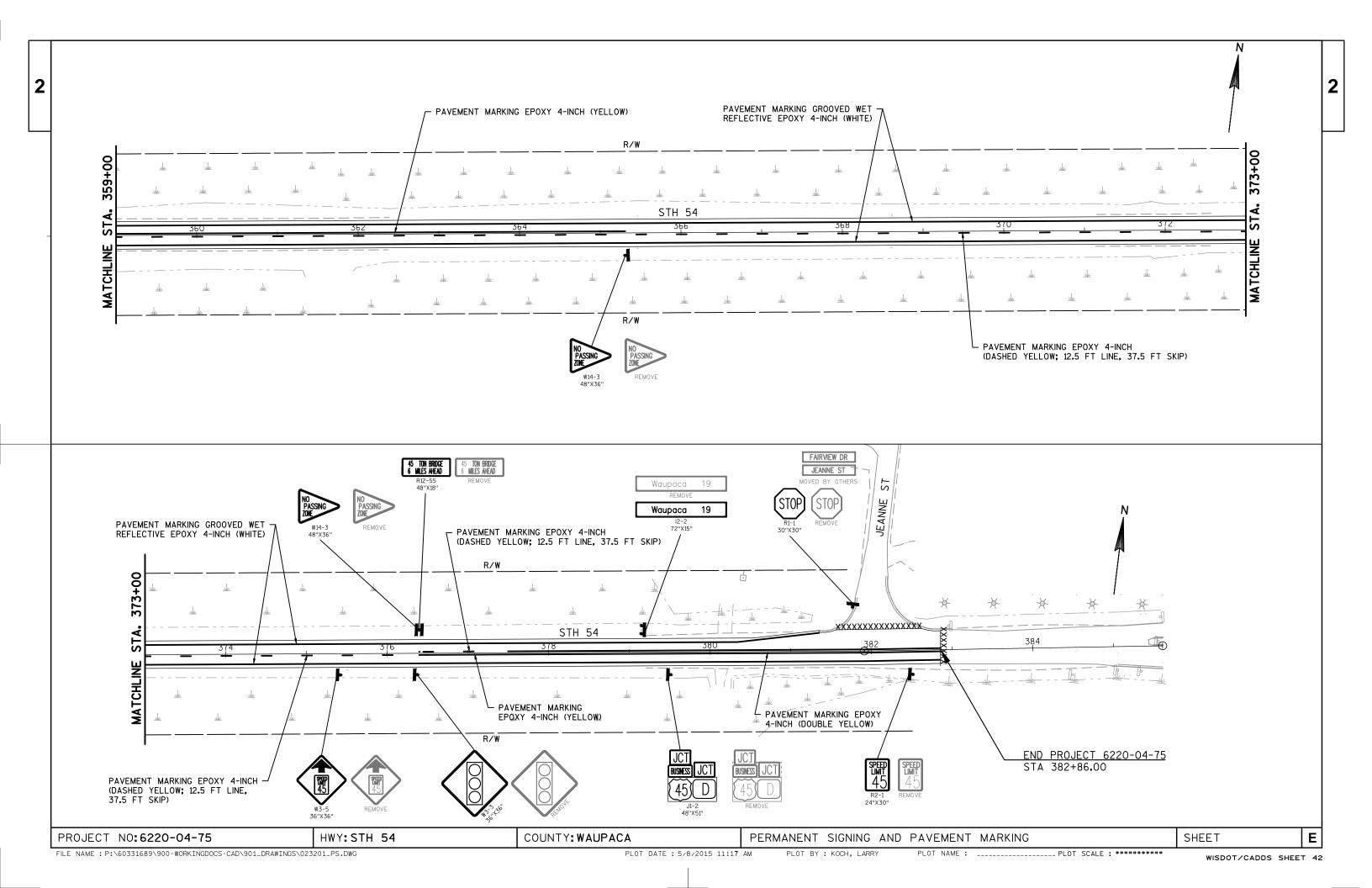
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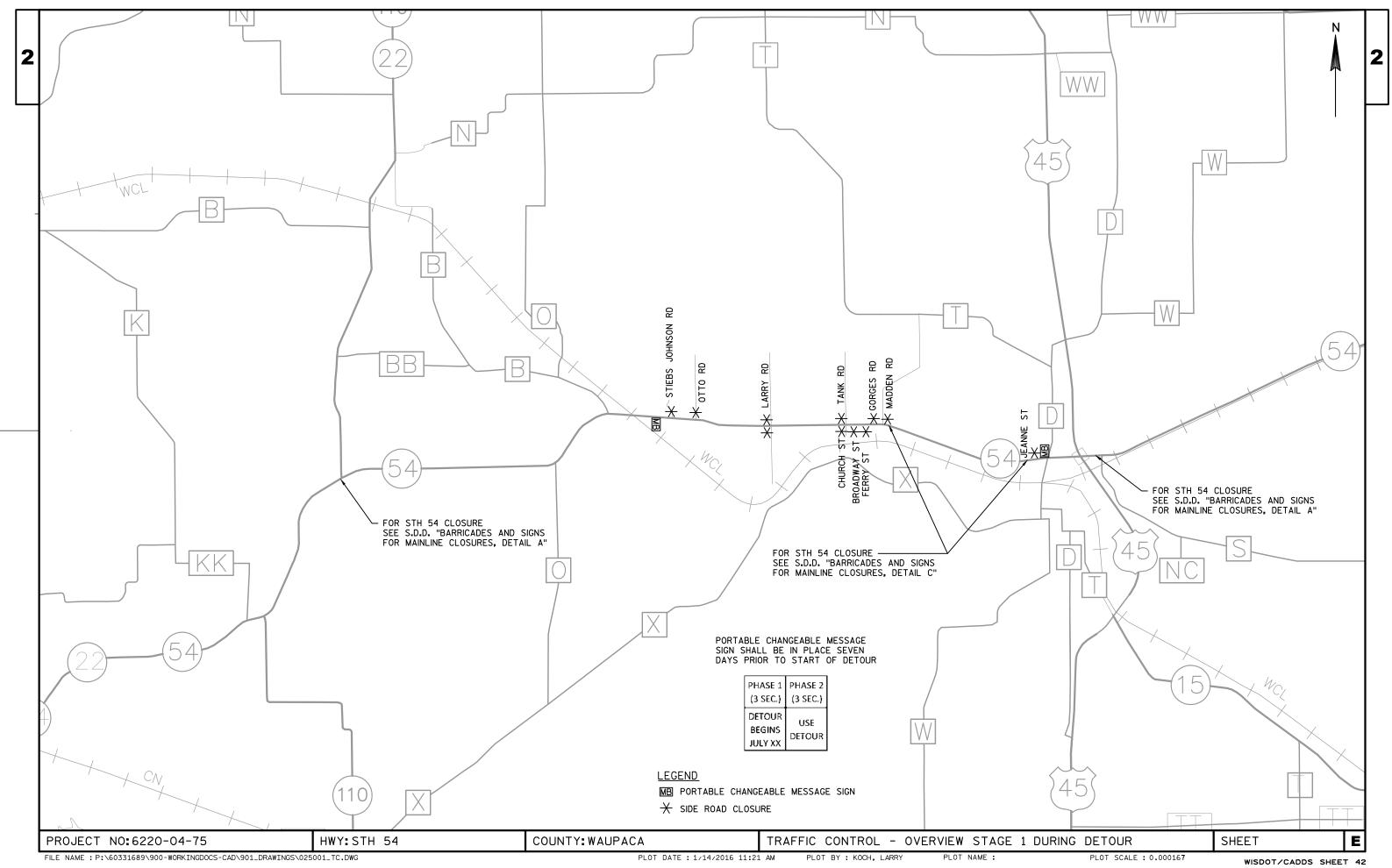
PLOT BY : KOCH, LARRY

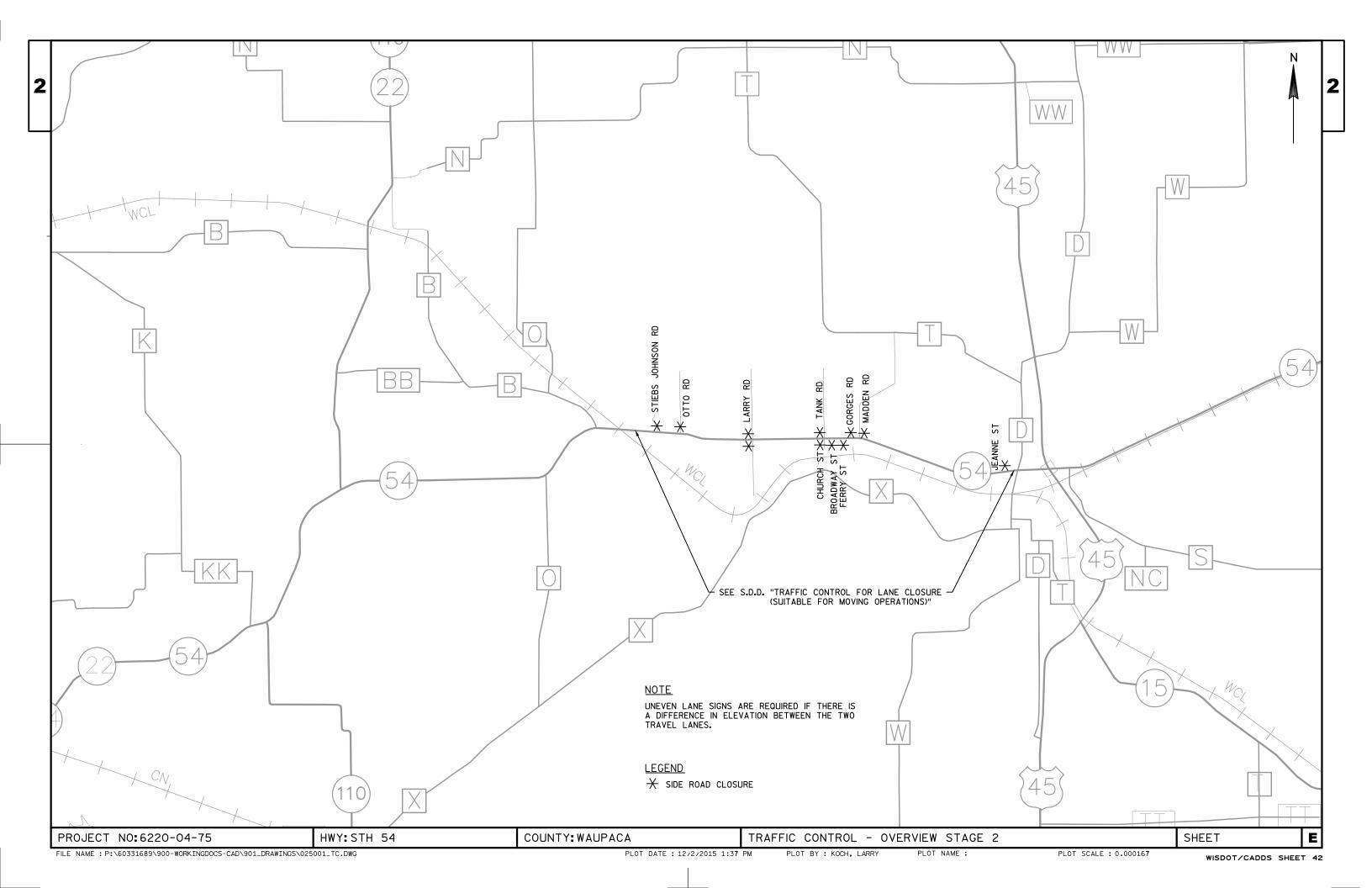


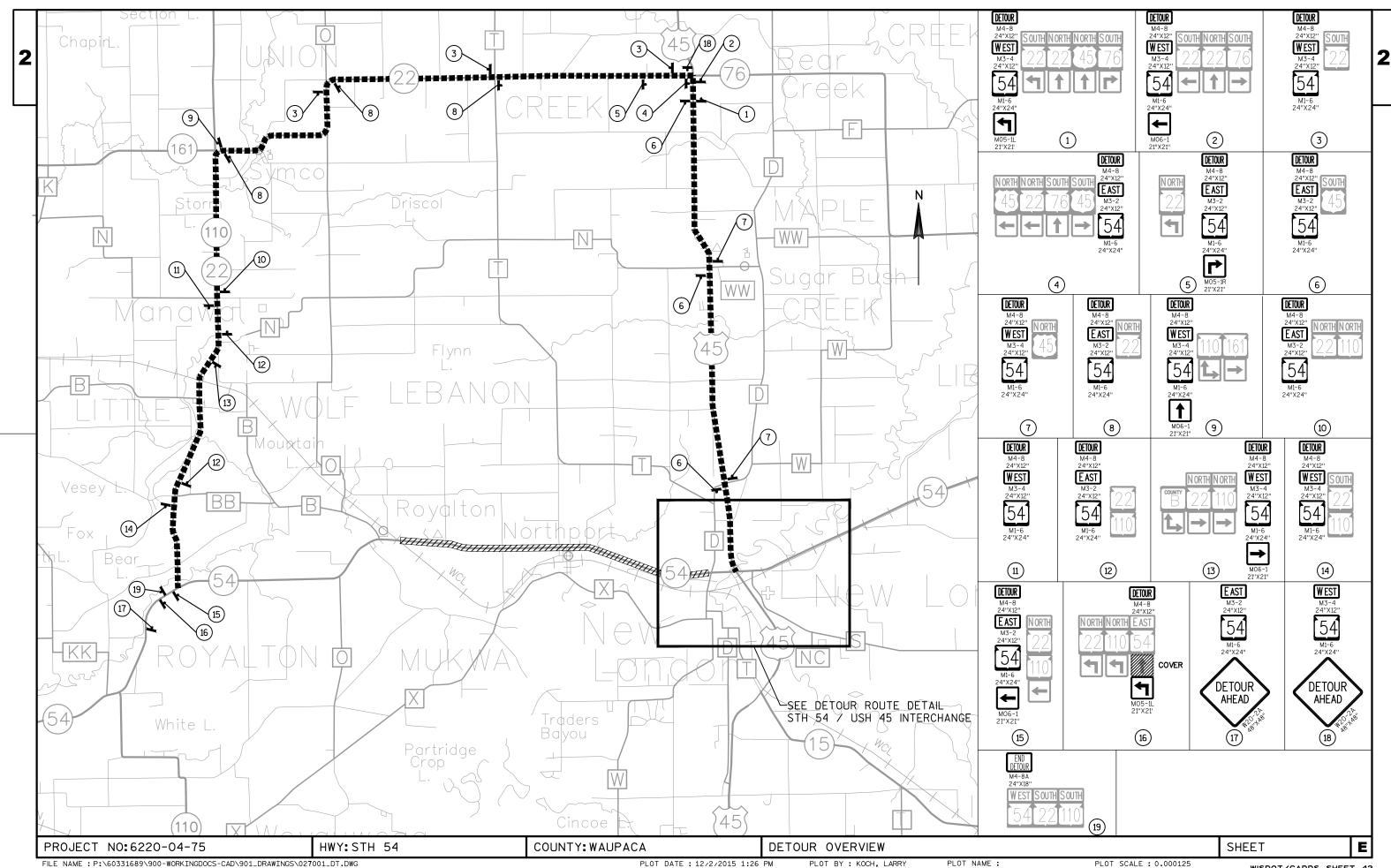


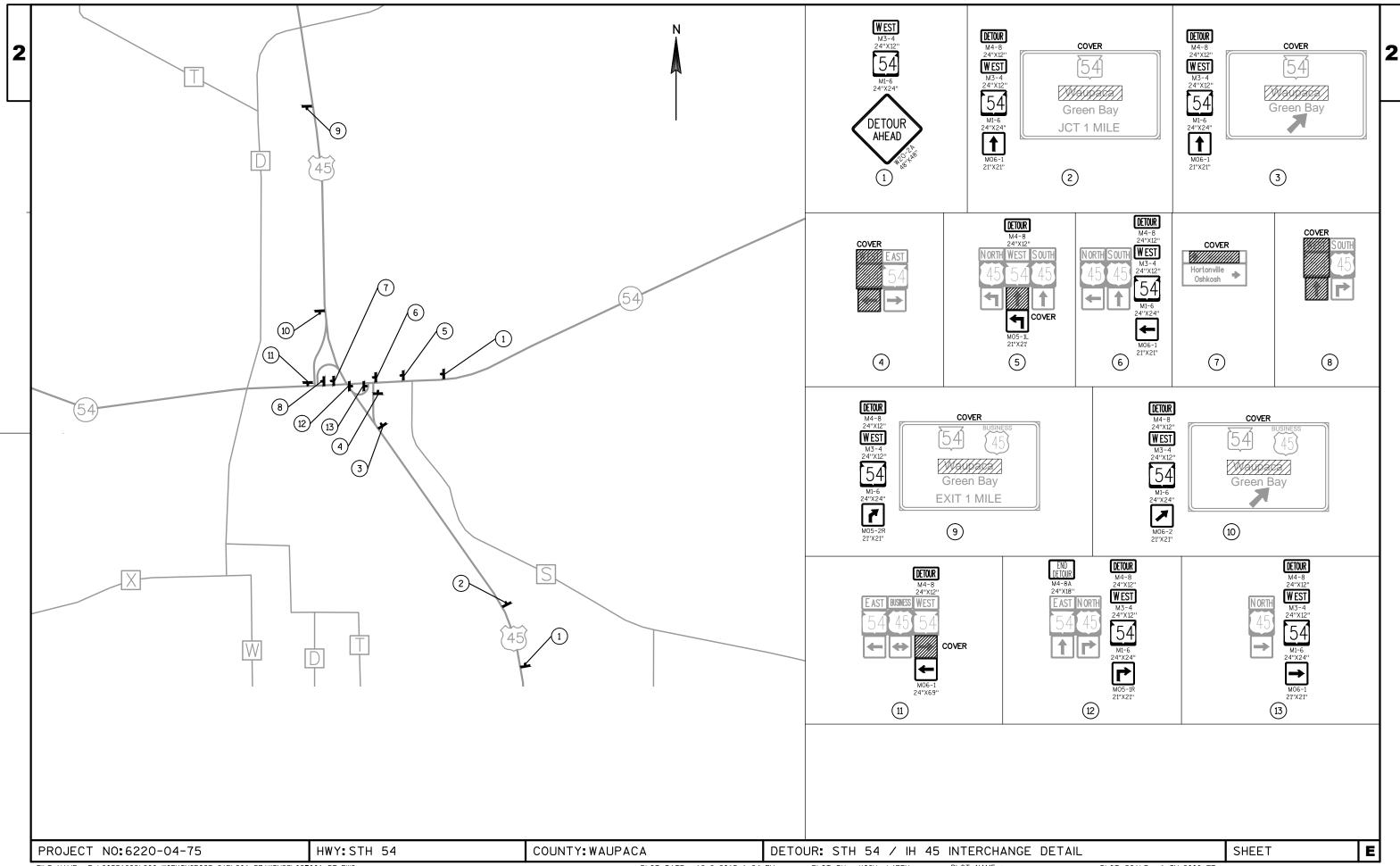












FILE NAME : P:\60331689\900-WORKINGDOCS-CAD\901_DRAWINGS\027001_DT.DWG

PLOT DATE: 12/2/2015 1:24 PM

PLOT BY : KOCH, LARRY

PLOT NAME :

PLOT SCALE : 1 IN:2000 FT

DATE 22	MAR16	E S	TIMAT	E O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	6220-04-75 QUANTI TY
0010	203. 0100	Removing Small Pipe Culverts	EACH	3. 000	3. 000
0020	204. 0100	Removing Pavement	SY	760.000	760. 000
0030	204. 0120	Removing Asphaltic Surface Milling	SY	100, 680. 000	100, 680. 000
0040 0050	204. 0165 204. 0180	Removing Guardrail Removing Delineators and Markers	LF EACH	832. 000 30. 000	832. 000 30. 000
	204.0100	Removing Defineators and markers	LACIT	30.000	30.000
0060	204. 9090. 5	S Removing (item description) 01. Silt Fence	LF	2, 630. 000	2, 630. 000
0070	205. 0100	Excavation Common	CY	1, 222. 000	1, 222. 000
0800	205. 0400	Excavation Marsh	CY	76. 000	76. 000
0090	208. 0100	Borrow	CY STA	2, 361. 000 548. 000	2, 361. 000 548. 000
0100	211. 0400	Prepare Foundation for Asphaltic Shoulders	SIA	546.000	546.000
0110	213. 0100	Finishing Roadway (project) 01. 6220-04-75	EACH	1.000	1. 000
0120	305. 0110	Base Aggregate Dense 3/4-Inch	TON	305.000	305.000
0130	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	1, 100. 000	1, 100. 000
0140	305. 0500	Shaping Shoulders	STA	548. 000 317. 000	548. 000
0150	312. 0110	Select Crushed Material	TON	217. 000	217. 000
0160	440. 4410	Incentive IRI Ride	DOL	21, 332. 000	21, 332. 000
0170	455.0605	Tack Coat	GAL	11, 070. 000	11, 070. 000
0180	460. 2000	Incentive Density HMA Pavement	DOL	16, 270. 000	16, 270. 000
0190 0200	460. 4000 460. 4110. 9	HMA Cold Weather Paving S Reheating HMA Pavement Longitudinal	TON LF	2, 429. 000 55, 621. 000	2, 429. 000 55, 621. 000
0200	400. 4110. 3	Joints	LF	55, 021. 000	55, 621.000
0210	460. 5223	HMA Pavement 3 LT 58-28 S	TON	13, 276. 000	13, 276. 000
0220	460. 5224	HMA Pavement 4 LT 58-28 S	TON	10, 629. 000	10, 629. 000
0230	465. 0105	Asphaltic Surface	TON	390.000	390.000
0240	465. 0120	Asphaltic Surface Driveways and Field	TON	150. 000	150. 000
0250	465. 0315	Entrances Asphaltic Flumes	SY	87. 000	87. 000
0260	465. 0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	44, 088. 000	44, 088. 000
0270	465. 0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	23, 257. 000	23, 257. 000
0280	504.0900	Concrete Masonry Endwalls	CY	7. 400	7. 400
0290	520. 8000	Concrete Collars for Pipe	EACH	10.000	10.000
0300	522. 0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	33. 000	33. 000
0310	522. 0130	Culvert Pipe Reinforced Concrete Class	LF	7. 000	7. 000
0320	522. 0136	Culvert Pipe Reinforced Concrete Class	LF	158. 000	158. 000
0330	522. 0142	Culvert Pipe Reinforced Concrete Class III 42-Inch	LF	26. 000	26. 000
0340	522. 0148	Culvert Pipe Reinforced Concrete Class III 48-Inch	LF	63. 000	63. 000
0350	522. 1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2. 000	2. 000
0360	522. 1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2. 000	2. 000
0370	522. 1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	4. 000	4. 000
0380	522. 1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	2. 000	2. 000
0390	614. 2300	MGS Guardrail 3	LF	50. 000	50.000
0400	614. 2500	MGS Thrie Beam Transition	LF	150.000	150. 000

9	
S	

REMOVING	SMALL PIPI	CULVERTS
·		

203.0100 REMOVING SMALL PIPE CULVERTS

				PIPE CULVERTS
STATION	LOCATION	SIZE (IN)	TYPE	EACH
308+88	CROSS	36	RCP	1
325+27	CROSS	36	RCP	1
371+82	CROSS	36	RCP	1

PROJECT 6220-04-75 TOTAL 3

REMOVING PAVEMENT

204.0100 REMOVING PAVEMENT

760

STATION	-	STATION	SY
308+38	-	309+38	245
324+77	-	325+77	245
371+32	-	372+32	245
UNDIS	STRIB	UTED	25
	308+38 324+77 371+32	308+38 - 324+77 - 371+32 -	308+38 - 309+38 324+77 - 325+77

PROJECT 6220-04-75 TOTAL

REMOVING ASPHALTIC SURFACE MILLING

204.0120
REMOVING
ASPHALTIC
SURFACE
MILLING
SY

STATION	-	STATION	LOCATION	SY
100+36	-	107+30	STH 54, 1.75" DEPTH	2,850
107+30	-	279+66	STH 54, 4.00" DEPTH	63,000
280+59	-	382+86	STH 54, 4.00" DEPTH	34,600
100+36	-	382+86	ASPHALT PEs, 3.00" DEPTH	230

PROJECT 6220-04-75 TOTAL

REMOVING GUARDRAIL

STATION - STATION

277+21 - 279+79

278+22 - 279+79

280+47 - 282+04

280+47 - 283+04

PROJECT 6220-04-75 TOTAL

100,680

REMOVING DELINEATORS AND MARKERS

204.0180 REMOVING DELINEATORS AND MARKERS

STATION LOCATION **EACH** 114+86 STH 54, CROSS 2 118+15 STH 54, LT 130+00 STH 54, LT 139+00 STH 54, LT 139+50 STH 54, LT 140+50 STH 54, LT 141+00 STH 54, LT 143+19 STH 54, CROSS 152+00 STH 54, RT 183+32 STH 54, RT 185+32 STH 54, RT 187+32 STH 54, RT 189+35 STH 54, LT 193+30 STH 54, RT 220+19 STH 54, CROSS 228+96 STH 54, CROSS 240+50 STH 54, LT 240+52 STH 54, RT 242+49 STH 54, RT 246+47 STH 54, RT 268+50 STH 54, LT 269+55 STH 54, LT 308+88 STH 54, CROSS 325+27 STH 54, CROSS

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

204.0165

REMOVING

GUARDRAIL

LF

258

158

158

258

832

PROJECT 6220-04-75 TOTAL

STH 54, CROSS

SHEET

PROJECT NO:6220-04-75

HWY:STH 54

OFFSET

RT

LT

RT

LT

COUNTY: WAUPACA

COMMENTS

REMOVE ALL EXISTING GUARDRAIL UP TO EXISTING W-SECTION BRIDGE RAILING.

REMOVE ALL EXISTING GUARDRAIL UP TO EXISTING W-SECTION BRIDGE RAILING.

REMOVE ALL EXISTING GUARDRAIL UP TO EXISTING W-SECTION BRIDGE RAILING.

REMOVE ALL EXISTING GUARDRAIL UP TO EXISTING W-SECTION BRIDGE RAILING.

MISCELLANEOUS QUANTITIES

PLOT NAME :

371+82

PLOT SCALE : ***********

30

Ε

EARTHWORK SUM	<u>IMARY</u>	EXCAVATION	AVAILABLE	EXCAVATION	REDUCED	EXPANDED	EXPANDED	UNEXPANDED	EXPANDED		WASTE	BORROW	COMMENT
FROM/TO		COMMON	MATERIAL	MARSH	MARSH IN FILL	MARSH BACKFILL	MARSH BACKFILL	FILL	FILL	MASS ORDINATE +/-	WASIE	BORROW	COMINIENT
STATION	LOCATION	(1)	(3)	(4)	(5)	(6)	(6)		(7)	(8)			
		(ITEM #205.0100)		(ITEM #205.0400)		SELECT CRUSHED MATERIAL (CY)	SELECT CRUSHED MATERIAL (TON) (ITEM #312.0110)					(ITEM #208.0100)	
		CUT			FACTOR	FACTOR	FACTOR		FACTOR				
		(2)			0.60	1.50	1.90		1.25				
114+36 - 115+36	CULVERT EXTENSION	0	0	0	0	0	0	146	182	-182	0	182	
142+69 - 143+69	CULVERT EXTENSION	6	6	30	18	45	86	154	170	-164	0	164	
219+69 - 220+69	CULVERT EXTENSION	1	1	0	0	0	0	86	107	-106	0	106	
228+46 - 229+46	CULVERT EXTENSION	2	2	0	0	0	0	112	140	-138	0	138	
277+26 - 279+66	BRIDGE GUARDRAIL	0	0	0	0	0	0	543	678	-678	0	678	
280+60 - 283+00	BRIDGE GUARDRAIL	23	23	0	0	0	0	156	195	-172	0	172	
308+38 - 309+38	CULVERT REPLACEMENT	0	0	14	8	21	40	227	273	-273	0	273	
324+77 - 325+77	CULVERT REPLACEMENT	0	0	17	10	26	48	288	347	-347	0	347	
371+32 - 372+32	CULVERT REPLACEMENT	0	0	15	9	23	43	249	300	-300	0	300	
GRAND TOTAL		32	32	76	46	114	217	1,959	2,392	-2,361	0	2,361	

Notes:

SUBTOTAL

308+38 - 309+38

324+77 - 325+77

371+32 - 372+32

TOTAL COMMON EXC

TRANSITIONAL CUT

TRANSITIONAL CUT

TRANSITIONAL CUT

320

440

430

1,190

1,222

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA MISCELLANEOUS QUANTITIES SHEET E

FILE NAME : P:\60331689\900-WORKINGDOCS-CAD\901_DRAWINGS\030201_MQ.DWG

PLOT DATE : 1/18/2016 11:10 AM

PLOT BY : KOCH, LARRY

PLOT NAME :

PLOT SCALE : ########

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⁾ Available Material = Cut - Salvaged/Unusuable Pavement Material

⁴⁾ Marsh Excavation - to be backfilled with Select Crushed Material. Item number 312.0110.

⁵⁾ Reduced Marsh in Fill - Excavated Marsh Material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6

⁶⁾ Expanded Marsh Backfill - This is to be filled with Select Crushed Material. Marsh Backfill Factor = 1.5. Item number 312.0110.

⁷⁾ Expanded Fill. Factor = 1.25. Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor

⁸⁾ 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.

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

211.0400 PREPARE **FOUNDATION FOR ASPHALTIC SHOULDERS**

(CAT. 0020)

548

STATION		STATION	LOCATION	STA
100+36	-	247+00	LT	147
100+36	-	247+00	RT	147
254+60	-	279+66	LT	25
254+60	-	279+66	RT	25
280+59	-	382+86	LT	102
280+59	-	382+86	RT	102

PROJECT 6220-04-75 TOTAL

BASE AGGREGATE DENSE

			305.0110 3/4-INCH	305.0120 1 1/4-INCH	624.0100 WATER	
STATION -	STATION	LOCATION	TON	TON	MGAL	REMARKS
308+38 -	309+38	STH 54	35	360	7	CULVERT REPLACEMENT
324+77 -	325+77	STH 54	35	360	7	CULVERT REPLACEMENT
371+32 -	372+32	STH 54	35	360	7	CULVERT REPLACEMENT
UNDISTRIB	BUTED	SHOULDERS	200	20	4	
PROJECT 6220-	-04-75 TOTAL		305	1,100	25	

460.5223

HMA PAVEMENT

3 LT 58-28 S

TON

7,660

4,277

11,937

790

549

1,339

(CAT. 0010) (CAT. 0020) (CAT. 0010) (CAT. 0020)

460.5224

HMA PAVEMENT

4 LT 58-28 S

TON

614

427

1,041

275

5,986

3,327

9,588

SHAPING	SH	<u>OULDERS</u>			ASPHALT PAVEMENT	<u>ITEMS</u>		
				305.0500 Shaping Shoulders			TA	0605 .CK OAT
STATION	-	STATION	LOCATION	STA			(CAT. 0010)	(CAT. 0020)
100+36	-	247+00	LT	147	STATION - STATION	LOCATION	` ´G	AL ´
100+36	-	247+00	RT	147	100+36 - 107+30	STH 54	150	
254+60	-	279+66	LT	25	107+30 - 279+66	STH 54	6,577	323
254+60	-	279+66	RT	25	280+59 - 382+86	STH 54	3,675	225
280+59	-	382+86	LT	102	308+38 - 309+38	CULVERT CROSSING	40	
280+59	-	382+86	RT	102	324+77 - 325+77	CULVERT CROSSING	40	
					371+32 - 372+32	CULVERT CROSSING	40	
ROJECT 6	220-	04-75 TOTAL		548				
					PROJECT 6220-04-75 TOT	AL	10,522	548

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

PROJECT NO:6220-04-75	HWY:STH 54	COUNTY: WAUPACA	MISCELLANEOUS QUANTITIES	SHEET	Ε
			····· · · · · · · · · · · · · ·		1

460.4000

HMA COLD

WEATHER PAVING

TON

27

1,505

858 13

13

13

2,429

465.0105 **ASPHALTIC**

SURFACE

TON

130

130

130

390

	SY	
IRD	9	

3

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS							
				460.4110.S			
				REHEATING			
				HMA PAVEMENT			
				LONGITUDINAL			
				JOINTS			
STATION	-	STATION	LOCATION	LF			
100+36	-	107+30	STH 54	694			
107+30	-	279+66	STH 54	34,472			
280+59	-	382+86	STH 54	20,455			

PROJECT 6220-04-75 TOTAL

07.17.01	055057		465.0315 ASPHALTIC FLUMES
STATION	OFFSET	LOCATION	SY
116+85	25' LT	STIEBS JOHNSON RD	9
117+56	81' LT	STIEBS JOHNSON RD	8
134+14	81' LT	OTTO RD	8
135+03	26' LT	OTTO RD	7
188+14	86' LT	LARRY RD	6
188+64	40' LT	LARRY RD	7
240+91	24' LT	TANK RD	9
241+72	62' LT	TANK RD	7
246+99	24' RT	STH 54	10
254+66	19' RT	STH 54	7
268+23	21' LT	MADDEN RD	9

ASPHALTIC FLUMES

PROJECT 6220-04-75 TOTAL

ASPHALTIC RUMBLE STRIPS

				ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL (CAT. 0020)	ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL (CAT. 0010)	
STATION	-	STATION	LOCATION	LF	LF	REMARKS
100+61	-	233+50	STH 54		12,089	OVERHEAD TO TANK RD/CHURCH ST
262+80	-	379+91	STH 54		11,168	GORGES RD TO JEANNE ST
107+30	-	237+30	STH 54, LT	10,002		OVERHEAD TO TANK RD/CHURCH ST
107+30	-	235+30	STH 54, RT	10,657		OVERHEAD TO TANK RD/CHURCH ST
255+50	-	277+94	STH 54, LT	1,667		FERRY ST TO CEDAR CREEK
255+50	-	277+94	STH 54, RT	2,244		FERRY ST TO CEDAR CREEK
282+32	-	379+91	STH 54, LT	9,759		CEDAR CREEK TO JEANNE ST
282+32	-	379+91	STH 54, RT	9,759		CEDAR CREEK TO JEANNE ST
PROJECT	62	20-04-75 TOTA	.L	44,088	23,257	

465.0425

NOTE: ALL ITEMS ARE CATEGORY 0010. UNLESS OTHERWISE NOTED.

ASPHALTIC SURFACE DRIVEWAYS

LOCATION

GRAVEL PE, RT

ASPHALT PE, LT

GRAVEL PE, RT

GRAVEL FE. RT

ASPHALT PE, RT

ASPHALT PE, RT

ASPHALT PE, RT

ASPHALT PE, RT

GRAVEL PE, LT

ASPHALT PE. RT

ASPHALT PE, RT

ASPHALT PE, LT

ASPHALT PE. RT

GRAVEL PE, LT

GRAVEL PE. LT

ASPHALT PE, LT

ASPHALT PE, LT

ASPHALT CE. LT

GRAVEL PE, RT

GRAVEL PE, RT

GRAVEL FE, RT

GRAVEL FE, LT

GRAVEL PE. RT

ASPHALT PE, RT

GRAVEL FE. RT

GRAVEL PE, LT

GRAVEL FE, LT

SUBTOTAL

PROJECT 6220-04-75 TOTAL

465.0120

DRIVEWAYS

AND FIELD

ENTRANCES

TON

2.3

2.5

2.5

1.8

2.7

3.9

3.0

2.3

3.0

2.5

1.9

2.6

2.3

2.1

3.0

2.1

1.9

4.3

2.0

3.6

2.0

2.5

2.7

2.7

1.9

3.1

1.6

68.8

150

AND FIELD ENTRANCES

STATION

194+72

195+06

196+98

201+07

202+47

205+75

209+22

210+18

210+98

214+49

215+07

217+26

219+36

223+90

224+79

234+03

234+83

237+98

239+50

242+82

243+50

246+05

255+19

257+34

268+68

274+31

353+52

HWY:STH 54 COUNTY: WAUPACA SHEET Ε PROJECT NO:6220-04-75 MISCELLANEOUS QUANTITIES

FILE NAME : P:\60331689\900-WORKINGDOCS-CAD\901_DRAWINGS\030201_MQ.DWG

ASPHALTIC SURFACE DRIVEWAYS

LOCATION

GRAVEL PE, LT

GRAVEL PE, LT

GRAVEL PE, LT

GRAVEL PE, RT

ASPHALT PE, RT

GRAVEL PE, LT

GRAVEL PE, LT

GRAVEL FE. LT

GRAVEL PE, RT

GRAVEL FE, LT

GRAVEL PE, RT

GRAVEL PE, LT

GRAVEL PE, RT

ASPHALT PE. LT

GRAVEL PE, RT

GRAVEL PE, LT

GRAVEL PE, RT

GRAVEL PE. LT

GRAVEL PE, RT

ASPHALT PE. LT

GRAVEL PE, RT

GRAVEL PE, RT

GRAVEL PE. LT

ASPHALT PE, RT

ASPHALT PE, LT

GRAVEL PE. RT

GRAVEL PE, RT

ASPHALT PE, RT

GRAVEL FE. RT

GRAVEL PE, RT

SUBTOTAL

465.0120

DRIVEWAYS

AND FIELD

ENTRANCES

TON

2.7

2.7

4.5

2.5

2.6

2.6

2.8

2.4

2.7

2.7

2.4

3.0

2.6

2.4

2.6

3.1

3.7

2.9

2.2

2.9

2.6

2.4

2.8

2.4

2.6

2.6

2.7

2.1

1.6

2.6

80.4

AND FIELD ENTRANCES

STATION

104+94

108+27

111+07

112+05

118+84

120+89

121+98

125+98

126+00

137+60

139+90

147+50

147+75

148+37

149+25

152+33

156+78

161+18

162+76

166+13

167+67

171+07

173+45

173+53

175+26

176+89

182+00

183+84

185+42

192+60

PLOT DATE: 12/4/2015 10:27 AM PLOT BY : KOCH, LARRY PLOT SCALE : ########

465.0475

WISDOT/CADDS SHEET 42

PLOT NAME :

55.621

	CULVERT PIPES														
				504.0900 CONCRETE MASONRY ENDWALLS	520.8000 CONCRETE COLLARS FOR PIPE	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III	522.0130 CULVERT PIPE REINFORCED CONCRETE CLASS III	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III	522.0142 CULVERT PIPE REINFORCED CONCRETE CLASS III	522.0148 CULVERT PIPE REINFORCED CONCRETE CLASS III	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE	522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE	JOINT TIES
			NUMBER OF			24-INCH	30-INCH	36-INCH	42-INCH	48-INCH	24-INCH	30-INCH	36-INCH	48-INCH	
	STATION	LOCATION	CULVERTS	CY	EACH	LF	LF	LF	LF	LF	EACH	EACH	EACH	EACH	EACH
3	114+86	STH 54, LT	2	1.3	2	10									
9	114+86	STH 54, RT	2	1.3	2	18									
	143+19	STH 54, LT	2	2.4	2				26						
	143+19	STH 54, RT	2	2.4											
	220+19	STH 54, LT	1		1	3					1				2
- [220+19	STH 54, RT	1		1	2					1				2
	228+96	STH 54, LT	1		1		4					1			2
	228+96	STH 54, RT	1		1		3					1			2
	308+88	STH 54, CROSS	1							63				2	24
	325+27	STH 54, CROSS	1					79					2		28
	371+82	STH 54, CROSS	1					79					2		28
-	PROJECT 622	0-04-75 TOTAL		7.4	10	33	7	158	26	63	2	2	4	2	88

^{**} FOR INFORMATION ONLY. TIE ALL PIPE JOINTS FOR PIPE REPLACEMENTS AND TIE THE PIPE AND APRON ENDWALL FOR EXTENSIONS.

GUARDRAIL	Gl	JΑ	RD	RA	\lL
-----------	----	----	----	----	-----

		_		614.2300 MGS GUARDRAIL 3	614.2500 MGS THRIE BEAM TRANSITION	614.2610 MGS GUARDRAIL TERMINAL EAT	
STATION	-	STATION	OFFSET	LF	LF	EACH	COMMENTS
278+75	-	279+79	RT	12.5	37.5	1	CONNECTS TO EXISTING W-SECTION BRIDGE RAILING.
278+76	-	279+79	LT	12.5	37.5	1	CONNECTS TO EXISTING W-SECTION BRIDGE RAILING.
280+47	-	281+50	RT	12.5	37.5	1	CONNECTS TO EXISTING W-SECTION BRIDGE RAILING.
280+47	-	281+50	LT	12.5	37.5	1	CONNECTS TO EXISTING W-SECTION BRIDGE RAILING.
PROJECT	62	20-04-75 TO1	ΓAL	50	150	4	

SURVEY MONUMENTS

		621.0100 LANDMARK REFERENCE MONUMENTS	SPV.0060.01 REESTABLISH SECTION CORNER MONUMENTS	
STATION	LOCATION	EACH	EACH	COMMENTS
		LACII	LACII	
188+28	1' RT	4	1	BERNTSEN STEEL NAIL MARKER
241+48	0' RT	4	1	BERNTSEN STEEL NAIL MARKER
PROJECT 622	20-04-75 TOTAL	8	2	

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA MISCELLANEOUS QUANTITIES SHEET E

FILE NAME : P:\60331689\900-WORKINGDOCS-CAD\901_DRAWINGS\030201_MQ.DWG

PLOT DATE : 1/15/2016 7:38 AM

PLOT BY : KOCH, LARRY

PLOT NAME :

PLOT SCALE : *********

WISDOT/CADDS SHEET 42

LANDSCAPING

		<u></u>		625.0500 SALVAGED TOPSOIL	629.0210 FERTILIZER TYPE B	630.0110 SEEDING MIXTURE NO. 10	630.0160 SEEDING MIXTURE NO. 60
STATION	-	STATION	LOCATION	SY	CWT	LB	LB
114+35	-	115+35	LT & RT	210	0.1	3	
142+68	-	143+68	LT	250		4	0.3
219+68	-	220+68	LT & RT	190	0.1	3	
228+46	-	229+46	LT & RT	300	0.2	4	
277+16	-	279+78	LT	650		9	0.8
277+16	-	279+83	RT	580		8	0.8
280+39	-	283+00	RT	450		7	0.8
280+45	-	283+00	LT	520		7	0.8
308+38	-	309+38	LT & RT	250		4	0.6
324+72	-	325+72	LT & RT	360		5	0.6
371+32	-	372+32	LT & RT	360		5	0.6
UNDIS	TRII	BUTED		1,060	0.6	16	1.7
PROJECT 6	3220)-04-75 TOTA	\L	5,180	1	75	7

MARKERS

308+88

325+27

371+82

MARKERS **CULVERT END STATION** LOCATION **EACH** STH 54, CROSS 114+86 2 143+19 STH 54, CROSS 2 STH 54, CROSS 2 220+19 228+96 STH 54, CROSS 2

633.5200

2

2

PROJECT 6220-04-75 TOTAL 14

STH 54, CROSS

STH 54, CROSS

STH 54, CROSS

EROSION CONTROL

				628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	204.9090.S.01 REMOVE SILT FENCE	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL	628.2006 EROSION MAT URBAN CLASS I TYPE A	628.7555 CULVERT PIPE CHECKS	628.7570 ROCK BAGS
STATION	-	STATION	LOCATION	LF	LF	LF	EACH	EACH	SY	EACH	EACH
114+35	-	115+35	LT & RT	215	215				210	6	
142+68	-	143+68	LT	126	126				250	16	
142+99	-	143+39	RT	45	45						
219+68	-	220+68	LT & RT	215	215				190	3	
228+46	-	229+46	LT & RT	232	232				300	5	
277+23	-	279+78	LT		286	286			650		10
277+25	-	279+75	RT		274	274			580		10
280+42	-	283+00	RT		278	278			450		10
280+49	-	283+00	LT		278	278			520		10
308+36	-	309+40	LT & RT		320	320			250	10	
324+75	-	325+79	LT & RT		334	334			360	7	
371+30	-	372+35	LT & RT		334	334			360	7	
UNDIS	STR	IBUTED		217	743	526	4	5	1,030	14	10
PROJECT (622	0-04-75 TOTA	L	1,050	3,680	2,630	4	5	5,150	68	50

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

PROJECT NO:6220-04-75 HWY:STH 54 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES SHEET E

3

PERMANENT SIGNING

				634.0614 POSTS WOOD	634.0616 POSTS WOOD	634.0618 POSTS WOOD	637.2210 SIGNS TYPE II	637.2230 SIGNS TYPE II	638.2602 REMOVING SIGNS	638.3000 REMOVING SMALL SIGN	
				4X6-INCH	4X6-INCH	4X6-INCH	REFLECTIVE	REFLECTIVE	TYPE II	SUPPORTS	
		SIGN	SIGN SIZE	X 14-FT	X 16-FT	X 18-FT	Н	F			
STATION			IN x IN	EACH	EACH	EACH	SF	SF	EACH	EACH	REMARKS
107+48	RT	D5-61	48"X24"		1		8.00		1	1	WAYSIDE 1/2 MILE, MOUNTED ON SAME POST AS W14-3
107+48	RT	W14-3	48"X36"					6.00	1		NO PASSING ZONE, MOUNTED ON SAME POST AS D5-61
115+07	LT	D7-68	84"X42"		1	1	24.50		1	2	ROAD TO CAMP VIC-TO-RAE COUNTY PARK 1 MILE
117+24	LT	R1-1	30"X30"		1		5.18		1	1	STOP
122+87	LT	W14-3	48"X36"		1			6.00	1	1	NO PASSING ZONE
134+07	LT	R1-1	30"X30"		1		5.18		1	1	STOP
134+14	RT	D5-62L	48"X24"		1		8.00		1	1	WAYSIDE WITH ARROW
135+52	LT	D5-62R	48"X24"		1		8.00		1	1	WAYSIDE WITH ARROW
156+05	LT	D5-61	48"X24"		1		8.00		1	1	WAYSIDE 1/2 MILE
162+29	LT	S3-1	36"X36"		1			9.00	1	1	SCHOOL BUS STOP AHEAD
172+84	RT	W14-3	48"X36"		1			6.00	1	1	NO PASSING ZONE
174+10	LT	W14-3	48"X36"		1			6.00	1	1	NO PASSING ZONE
180+51	RT	W2-1	30"X30"		1			6.25	1	1	CROSS ROAD
185+73	LT	155-56	30"X36"		1		7.50		1	1	ADOPT A HIGHWAY, 'EMANUEL LUTHERAN YOUTH', ROLLUP SIGN BRACKET IS INCIDENTAL
188+10	LT	R1-1	30"X30"		1		5.18		1	1	STOP
188+55	RT	R1-1	30"X30"		1		5.18		1	1	STOP
196+37	LT	W2-1	30"X30"		1			6.25	1	1	CROSS ROAD
201+57	RT	W14-3	48"X36"		1			6.00	1	1	NO PASSING ZONE
230+49	RT	W3-5	36"X36"			1		9.00	1	1	SPEED REDUCTION AHEAD 45 MPH
233+57	RT	R2-1	24"X30"		1		5.00		1	1	SPEED LIMIT 45 MPH
233+57	RT	I2-3	66"X24"		1	1	11.00		1	2	NORTHPORT UNINCORPORATED
233+58	LT	R2-1	24"X30"		1		5.00		1	1	SPEED LIMIT 55 MPH
237+16	LT	W14-3	48"X36"		1			6.00	1	1	NO PASSING ZONE
239+70	RT	S3-1	36"X36"		1			9.00	1	1	SCHOOL BUS STOP AHEAD
239+71	LT	J4-1	24"X36"		1		6.00		1	1	WEST, WIS 54
241+29	LT	R1-1	30"X30"		1		5.18		1	1	STOP
241+71	RT	R1-1	30"X30"		1		5.18		1	1	STOP
242+29	LT	R7-1-R	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
242+45	RT	R2-1	24"X30"		1		5.00				SPEED LIMIT 45 MPH, MOUNTED ON SAME POST AS R7-1-L
242+45	RT	R7-1-L	18"X24"				3.00				NO PARKING ANY TIME (ARROWS), MOUNTED ON SAME POST AS R2-1
242+51	RT	R2-1	24"X30"						1	1	SPEED LIMIT 45 MPH, MOUNTED ON SAME POST AS R7-1-L
242+51	RT	R7-1-L	18"X24"						1		NO PARKING ANY TIME (ARROWS), MOUNTED ON SAME POST AS R2-1
243+68	RT	W11-2	30"X30"						1	1	PEDESTRIAN CROSSING
245+09	LT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
245+29	RT	W11-2	30"X30"		1			6.25			PEDESTRIAN CROSSING, MOUNTED ON SAME POST AS R7-1-D
			SUBTOTAL	0	29	3	136.08	81.75	32	32	

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA MISCELLANEOUS QUANTITIES SHEET E

PLOT NAME :

3

PERMANENT SIGNING

				634.0614	634.0616	634.0618	637.2210	637.2230	638.2602	638.3000	
				POSTS	POSTS	POSTS	SIGNS	SIGNS	REMOVING	REMOVING	
				WOOD	WOOD	WOOD	TYPE II	TYPE II	SIGNS	SMALL SIGN	
				4X6-INCH	4X6-INCH	4X6-INCH	REFLECTIVE	REFLECTIVE	TYPE II	SUPPORTS	
		SIGN	SIGN SIZE	X 14-FT	X 16-FT	X 18-FT	Н	F			
STATION	OFFSET	CODE	IN x IN	EACH	EACH	EACH	SF	SF	EACH	EACH	REMARKS
245+29	RT	R7-1-D	18"X24"				3.00				NO PARKING ANY TIME (ARROWS), MOUNTED ON SAME POST AS W11-2
245+40	RT	R7-1-D	18"X24"						1	1	NO PARKING ANY TIME (ARROWS)
246+51	LT	R2-1	24"X30"		1		5.00		1	1	SPEED LIMIT 45 MPH
247+50	LT	J4-1	24"X36"						1	1	WEST, WIS 54
248+10	LT	J4-1	24"X36"		1		6.00				WEST, WIS 54
248+13	RT	R7-1-R	18"X24"	1			3.00		1	1	NO PARKING ANY TIME (ARROWS)
248+18	LT	R7-1-D	18"X24"						1	1	NO PARKING ANY TIME (ARROWS)
248+67	RT	R1-1	30"X30"	1			5.18		1	1	STOP
248+67	RT	R7-1-L	18"X24"	<u></u>					1		NO PARKING ANY TIME (ARROWS)
248+90	RT	R7-1-L	18"X24"	1			3.00				NO PARKING ANY TIME (ARROWS)
250+30	LT	R7-1-D	18"X24"	<u>·</u> 1			3.00		1	1	NO PARKING ANY TIME (ARROWS)
251+50	RT	R7-1-R	18"X24"	1			3.00		· 		NO PARKING ANY TIME (ARROWS)
252+06	RT	R1-1	30"X30"	1			5.18		1	1	STOP
252+14	LT	R7-1-D	18"X24"						1	1	NO PARKING ANY TIME (ARROWS)
252+20	RT	R7-1-L	18"X24"						1	1	NO PARKING ANY TIME (ARROWS)
252+20	RT	R7-1-L	18"X24"	1			3.00				NO PARKING ANY TIME (ARROWS)
253+50	RT	R2-1	24"X30"		1		5.00				SPEED LIMIT 45 MPH
253+74	LT	R7-1-D	18"X24"	1			3.00				NO PARKING ANY TIME (ARROWS)
254+50	LT	R2-1	24"X30"	1			5.00		1	1	SPEED LIMIT 45 MPH
254+53	RT	R2-1	24"X30"						1	1	SPEED LIMIT 45 MPH, MOUNTED ON SAME POST AS R7-1-R
254+53	RT	R7-1-R	18"X24"						1		NO PARKING ANY TIME (ARROWS), MOUNTED ON SAME POST AS R2-1
254+59	RT	R7-1-D	18"X24"		1		3.00				NO PARKING ANY TIME (ARROWS)
256+52	LT	W2-2	30"X30"		1			6.25	1	1	SIDE ROAD
258+00	LT	W11-2	30"X30"		1			6.25			PEDESTRIAN CROSSING
259+50	LT	W11-2	30"X30"						1	1	PEDESTRIAN CROSSING
259+50	LT	S3-1	36"X36"		1			9.00	1	1	SCHOOL BUS STOP AHEAD
260+54	LT	R1-1	30"X30"		1		5.18		1	1	STOP
260+79	RT	R2-1	24"X30"		1		5.00		1	1	SPEED LIMIT 55 MPH
261+55	LT	R2-1	24"X30"		1		5.00		1	1	SPEED LIMIT 45 MPH
261+55	LT	12-3	66"X24"		1	1	11.00		1	2	NORTHPORT UNINCORPORATED
264+51	LT	W3-5	36"X36"			1		9.00	1	1	SPEED REDUCTION AHEAD 45 MPH
267+34	LT	R1-1	30"X30"		1		5.18		1	1	STOP
270+28	RT	J4-1	24"X36"		1		6.00		1	1	EAST, WIS 54
274+71	LT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
274+73	RT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
			SUBTOTAL	9	15	2	98.72	30.50	26	25	

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA MISCELLANEOUS QUANTITIES SHEET E

PERMANENT SIGNING

				634.0614 POSTS WOOD 4X6-INCH	634.0616 POSTS WOOD 4X6-INCH	634.0618 POSTS WOOD 4X6-INCH	637.2210 SIGNS TYPE II REFLECTIVE	637.2230 SIGNS TYPE II REFLECTIVE	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	
CTATION	OFFOFT	SIGN	SIGN SIZE	X 14-FT	X 16-FT	X 18-FT	Н	F	FACU	FACU	DEM A DIZO
STATION			IN x IN	EACH	EACH	EACH	SF 2.00	SF	EACH	EACH	REMARKS
278+00	RT	R7-1-D	18"X24"	1			3.00		1		NO PARKING ANY TIME (ARROWS)
279+53	LT	W5-52-L	12"X36"						1	1	BRIDGE HASH MARKS
279+53	RT	W5-52-R	12"X36"						1	1	BRIDGE HASH MARKS
279+55	RT	W14-3	48"X36"		1		2.00	6.00	1	1	NO PASSING ZONE
279+70	LT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
280+71	LT	W5-52-R	12"X36"						1	1	BRIDGE HASH MARKS
280+72	RT	W5-52-L	12"X36"						1	1	BRIDGE HASH MARKS
284+50	LT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
284+57	RT . . .	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
289+53	LT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
289+57	RT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
295+35	LT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
295+39	RT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
300+41	LT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
300+42	RT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
305+27	LT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
305+28	RT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
315+34	LT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
315+34	RT	R7-1-D	18"X24"		1		3.00		1	1	NO PARKING ANY TIME (ARROWS)
325+50	LT	R7-1-D	18"X24"		1		3.00				NO PARKING ANY TIME (ARROWS)
325+50	RT	R7-1-D	18"X24"		1		3.00				NO PARKING ANY TIME (ARROWS)
335+50	LT	R7-1-D	18"X24"		1		3.00				NO PARKING ANY TIME (ARROWS)
335+50	RT	R7-1-D	18"X24"		1		3.00				NO PARKING ANY TIME (ARROWS)
341+97	LT	W14-3	48"X36"		1			6.00	1	1	NO PASSING ZONE
348+00	LT	R7-1-L	18"X24"		1		3.00				NO PARKING ANY TIME (ARROWS)
348+00	RT	R7-1-R	18"X24"		1		3.00				NO PARKING ANY TIME (ARROWS)
353+03	RT	12-3	78"X24"		1	1	13.00		1	2	NEW LONDON POPULATION 7295
365+31	RT	W14-3	48"X36"		1			6.00	1	1	NO PASSING ZONE
375+42	RT	W3-5	36"X36"			1		9.00	1	1	SPEED REDUCTION AHEAD 45 MPH
376+38	RT	W3-3	36"X36"			1		9.00	1	1	SIGNAL AHEAD
376+40	LT	W14-3	48"X36"		1			6.00	1	1	NO PASSING ZONE, MOUNTED ON SAME POST AS R12-55
376+40	LT	R12-55	48"X18"				6.00		1		45 TON BRIDGE 6 MILES AHEAD, MOUNTED ON SAME POST AS W14-3
379+16	LT	12-2	72"X15"	1	1		7.50		1	1	WAUPACA 19
379+51	RT	J1-2	48"X51"			1	8.50		1	1	JUNCTION, BUSINESS, US 45; JUNCTION, COUNTY D
381+77	LT	R1-1	30"X30"		1		5.18		1	1	STOP
382+51	RT	R2-1	24"X30"		1		5.00		1	1	SPEED LIMIT 45 MPH
			SUBTOTAL	2	27	4	105.18	42.00	30	29	
PROJECT	6220-04	-75 TOTAL		11	71	9	339.98	154.25	88	86	

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA MISCELLANEOUS QUANTITIES SHEET E

PLOT NAME :

2
J

TRAFFIC CONTROL		TRAFFIC CONTI	ROL									
PROJECT	643.0100 TRAFFIC CONTROL 6220-04-75 EACH		DAYS IN	TRAFFIC BARR	.0420 CONTROL ICADES PE III	TRAFFIC WARNIN	3.0705 CONTROL IG LIGHTS PE A	TRAFFIC	.0900 Control Gns	643.2000 TRAFFIC CONTROL DETOUR 6220-04-75	TRAFFIC	3.3000 CONTROL JR SIGNS
6220-04-75	1	LOCATION	SERVICE	NO.	DAY	NO.	DAY	NO.	DAY	EACH	NO.	DAY
PROJECT 6220-04-75 TOTAL	1	STAGE 1	12	22	264	20	240	29	348	1	124	1,488
		SUB TOTAL		22	264	20	240	29	348	1	124	1,488
		STAGE 2	63					11	693			
		SUB TOTAL		0	0	0	0	11	693	0	0	0
		STAGE 1&2										
TRACCIC CONTROL CIONE DO	10	UNDISTRIBUTED)		36		30		149			212
TRAFFIC CONTROL SIGNS PC	<u>n5</u> 643.1050 TRAFFIC CONTROL	PROJECT 6220-04-	75 TOTAL		300		270		1,190	1		1,700

LOCATING NO-PASSING ZONES

PROJECT 6220-04-75 TOTAL 5.35

650.6000

PIPE

13

TRAFFIC CONTROL COVERING SIGNS

LOCATION

SITE 1

SITE 2

UNDISTRIBUTED

PROJECT 6220-04-75 TOTAL

643.0920 TRAFFIC CONTROL NO. OF **COVERING SIGNS COVERING** TYPE II SIGN DETAIL NUMBER **PLAN SHEET** SIGN COVERED **CYCLES EACH** DETOUR OVERVIEW STRAIGHT ARROW 16 INTERCHANGE DETAIL WAUPACA INTERCHANGE DETAIL WAUPACA INTERCHANGE DETAIL WEST, WIS 54, LEFT ARROW STRAIGHT ARROW INTERCHANGE DETAIL INTERCHANGE DETAIL WAUPACA STRAIGHT AHEAD INTERCHANGE DETAIL WEST, WIS 54, STRAIGHT ARROW INTERCHANGE DETAIL WAUPACA WAUPACA 10 INTERCHANGE DETAIL 11 INTERCHANGE DETAIL RIGHT ARROW PROJECT 6220-04-75 TOTAL 10

SIGNS PCMS

DAY

NO.

DAYS IN

SERVICE

		CULVERTS	REFERENCE	CONTROL 6220-04-75
STATION - STATION	LOCATION	EACH	LF	LS
114+86	STH 54, CROSS	4		
143+19	STH 54, CROSS	2		
220+19	STH 54, CROSS	2		
228+96	STH 54, CROSS	2		
308+88	STH 54, CROSS	1		
325+27	STH 54, CROSS	1		
371+82	STH 54, CROSS	1		
100+36 - 279+66	STH 54		17,931	

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA MISCELLANEOUS QUANTITIES SHEET E

STH 54

CONSTRUCTION STAKING

280+59 - 382+86

6220-04-75

PROJECT 6220-04-75 TOTAL

PLOT BY : KOCH, LARRY

10,228

28,159

650.8000

650.9910

RESURFACING SUPPLEMENTAL

PAVEMEN	NT	MARKING I	<u>TEMS</u>					
				MARKING EPOXY 4-INCH	646.2304.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH	GROOVED WET REFLECTIVE EPOXY 8-INCH	649.0402 TEMPORARY PAVEMENT MARKING PAINT 4-INCH	649.0403 TEMPORARY PAVEMENT MARKING EPOXY 4-INCH
CTATION		STATION	TYPE	YELLOW LF	WHITE LF	WHITE LF	YELLOW LF	YELLOW LF
STATION 100+36	-	107+50	EDGELINE, CENTERLINE (SOLID & DASHED)	895	1,430		2,315	775
100+36	-	122+87	EDGELINE, CENTERLINE (SOLID & DASHED) EDGELINE(SOLID & DASHED), CENTERLINE (DASHED)	385	2,900		2,315 370	175 125
122+87	-	133+00	EDGELINE (SOLID & DASHED) EDGELINE, CENTERLINE (SOLID & DASHED)	1,270	2,030		3,290	1,100
133+00	-	162+32	EDGELINE, CENTERLINE (SOLID & DASHED) EDGELINE, CENTERLINE (DOUBLE SOLID)	5,870	5,750	200	17,600	5,870
162+32	_	172+85	EDGELINE, CENTERLINE (BOODLE SOCID) EDGELINE, CENTERLINE (SOLID & DASHED)	1,320	2,110		3,420	1,140
172+85		174+11	EDGELINE, CENTERLINE (DASHED)	160	260		410	140
174+11	_	184+93	EDGELINE, CENTERLINE (SOLID & DASHED)	1,360	2,170		3,510	1,170
184+93	_	191+53	EDGELINE, CENTERLINE (DOUBLE SOLID)	1,320	1,070	260	3,960	1,320
191+53	_	201+57	EDGELINE, CENTERLINE (SOLID & DASHED)	1,260	2,010		3,260	1,090
201+57	_	237+16	EDGELINE, CENTERLINE (DASHED)	890	7,120		855	285
237+16	_	244+56	EDGELINE, CENTERLINE (SOLID & DASHED)	925	1,230	100	2,400	800
244+56	_	270+39	EDGELINE, CENTERLINE (DOUBLE SOLID)	5,170	4,190		15,500	5,170
270+39	_	279+00	EDGELINE, CENTERLINE (SOLID & DASHED)	1,080	1,730		2,790	930
279+00	_	342+00	EDGELINE, CENTERLINE (DASHED)	1,580	12,600		1,520	510
342+00	-	350+00	EDGELINE, CENTERLINE (SOLID & DASHED)	1,000	1,600		2,600	870
350+00	-	357+00	EDGELINE, CENTERLINE (DOUBLE SOLID)	1,400	1,400		1,400	1,400
357+00	-	365+31	EDGELINE, CENTERLINE (SOLID & DASHED)	1,040	1,670		2,700	900
365+31	-	376+40	EDGELINE, CENTERLINE (DASHED)	280	2,220		270	90
376+40	-	377+50	EDGELINE, CENTERLINE (SOLID & DASHED)	140	220		360	120
377+50	-	382+86	EDGELINE, CENTERLINE (DOUBLE SOLID)	1,080	930		3,220	1,080
PROJECT 6	6220)-04-75 TOTA	NL	28,425	54,640	560	71,750	24,885

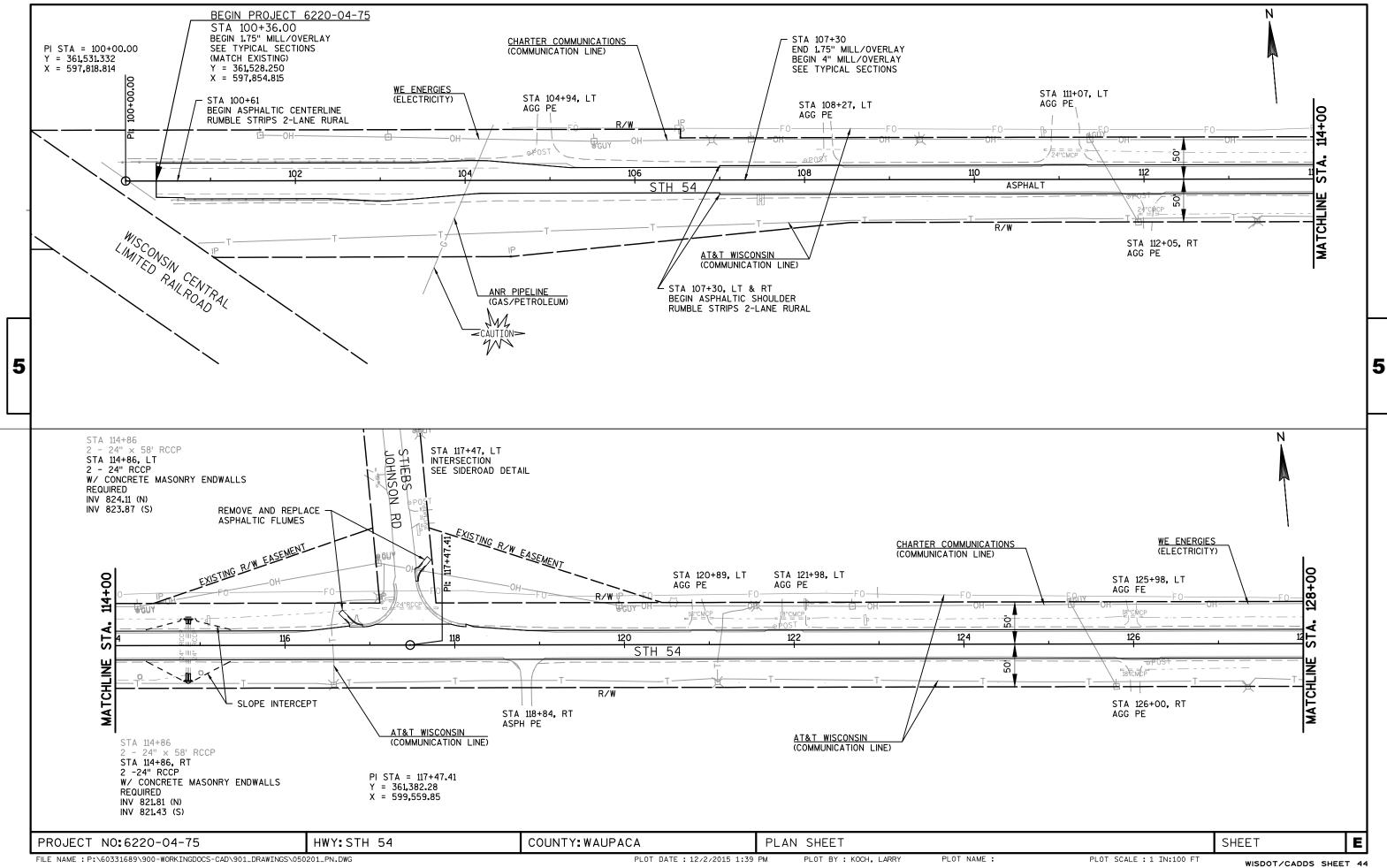
APPLY TEMPORARY PAVEMENT MARKING PAINT FOR CENTERLINE ON MILLED SURFACES AND LOWER ASPHALT LAYER. APPLY TEMPORARY PAVEMENT MARKING EPOXY FOR CENTERLINE ON FINAL PAVED SURFACE. AFTER CENTERLINE RUMBLE STRIP INSTALLATION, APPLY PAVEMENT MARKING EPOXY OVER TEMPORARY EPOXY AND RUMBLE STRIP.

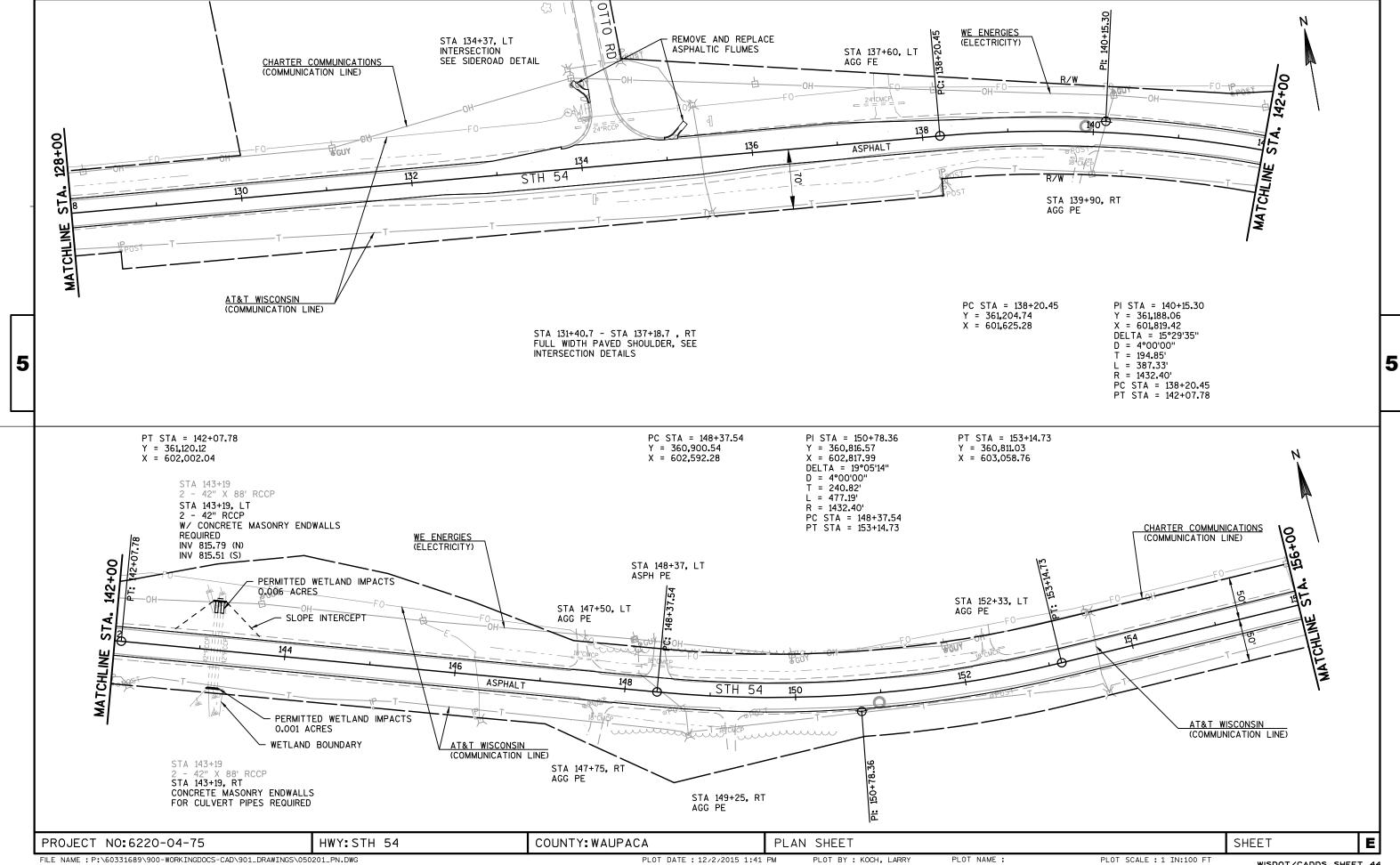
OT 4 T 10 W	100171011		690.0250 SAWING CONCRETE
STATION	LOCATION	LF	LF
100+36	STH 54	40	
117+47	STIEBS JOHNSON RD INT.	89	
118+84	ASPHALT PE, RT	32	
134+37	OTTO RD INT.	88	
148+37	ASPHALT PE, LT	27	
166+13	ASPHALT PE, LT	36	
173+53	ASPHALT PE, RT	29	
175+26	ASPHALT PE, LT	32	
183+84	ASPHALT PE, RT	24	
188+31	LARRY RD (NORTH) INT.	90	
188+31	LARRY RD (SOUTH) INT.	97	
195+06	ASPHALT PE, LT	30	
202+47	ASPHALT PE, RT	34	
205+75	ASPHALT PE, RT	54	
209+22	ASPHALT PE, RT	38	
210+18	ASPHALT PE, RT	26	
214+49	ASPHALT PE, RT	31	
215+07	ASPHALT PE, RT	20	
217+26	ASPHALT PE, LT	31	
219+36	ASPHALT PE, RT	26	
234+03	ASPHALT PE, LT	23	
234+83	ASPHALT PE, LT	21	
237+98	ASPHALT CE, LT	62	
241+49	TANK RD INT.	99	
241+49	CHURCH ST INT.	88	
248+47	BROADWAY ST INT.	53	
251+88	FERRY ST INT.	55	
257+34	ASPHALT PE, RT	34	
260+80	GORGES RD INT.	96	
267+57	MADDEN RD INT.	83	
308+38	STH 54, CULVERT REPLACEMENT	10	20
309+38	STH 54, CULVERT REPLACEMENT	10	20
324+77	STH 54, CULVERT REPLACEMENT	10	20
325+77	STH 54, CULVERT REPLACEMENT	10	20
371+32	STH 54, CULVERT REPLACEMENT	10	20
372+32	STH 54, CULVERT REPLACEMENT	10	20
381+91	JEANNE ST INT.	108	
382+86	STH 54	41	
PROJECT	6220-04-75 TOTAL	1,697	120

SAWING PAVEMENT

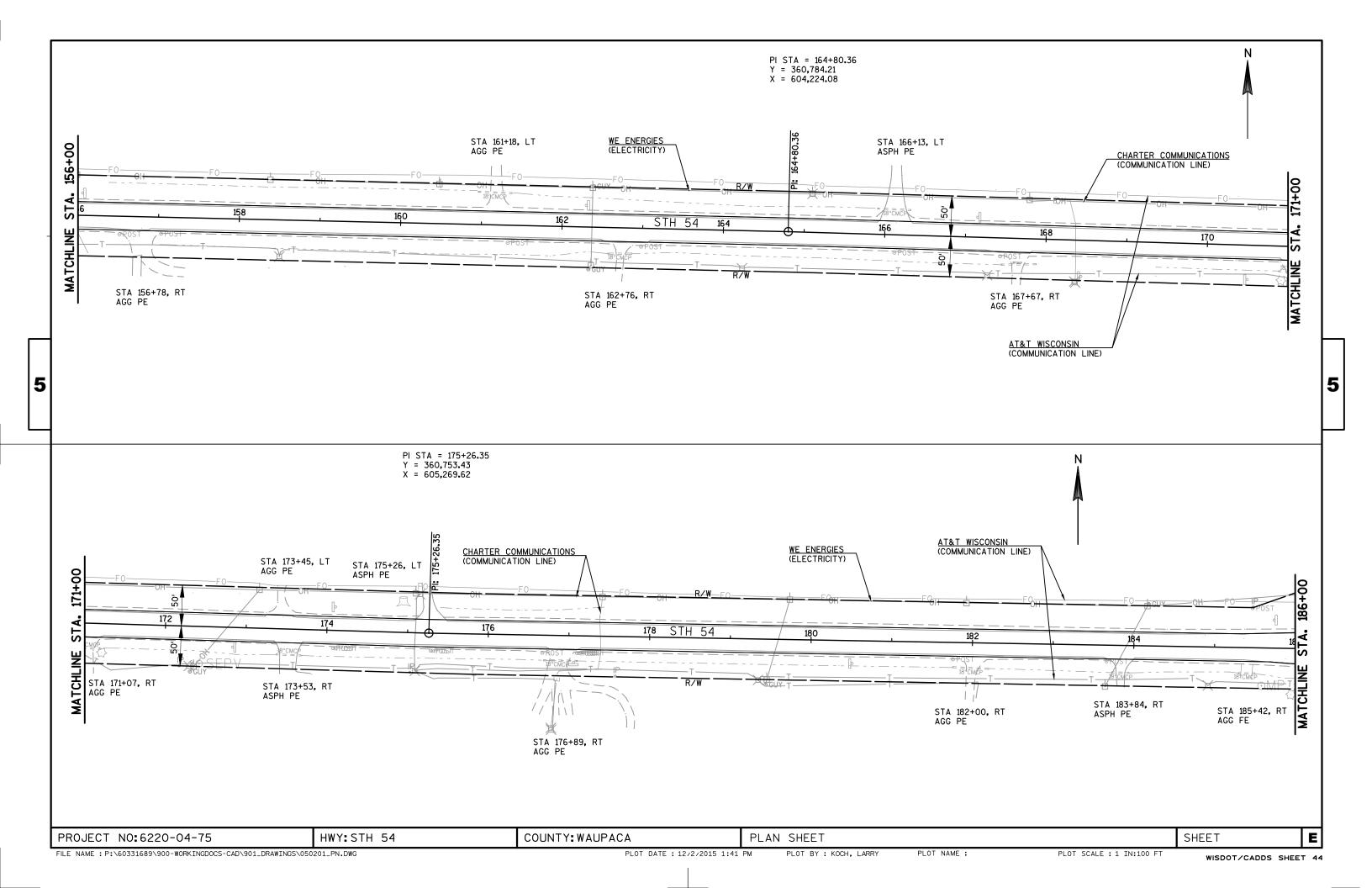
NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

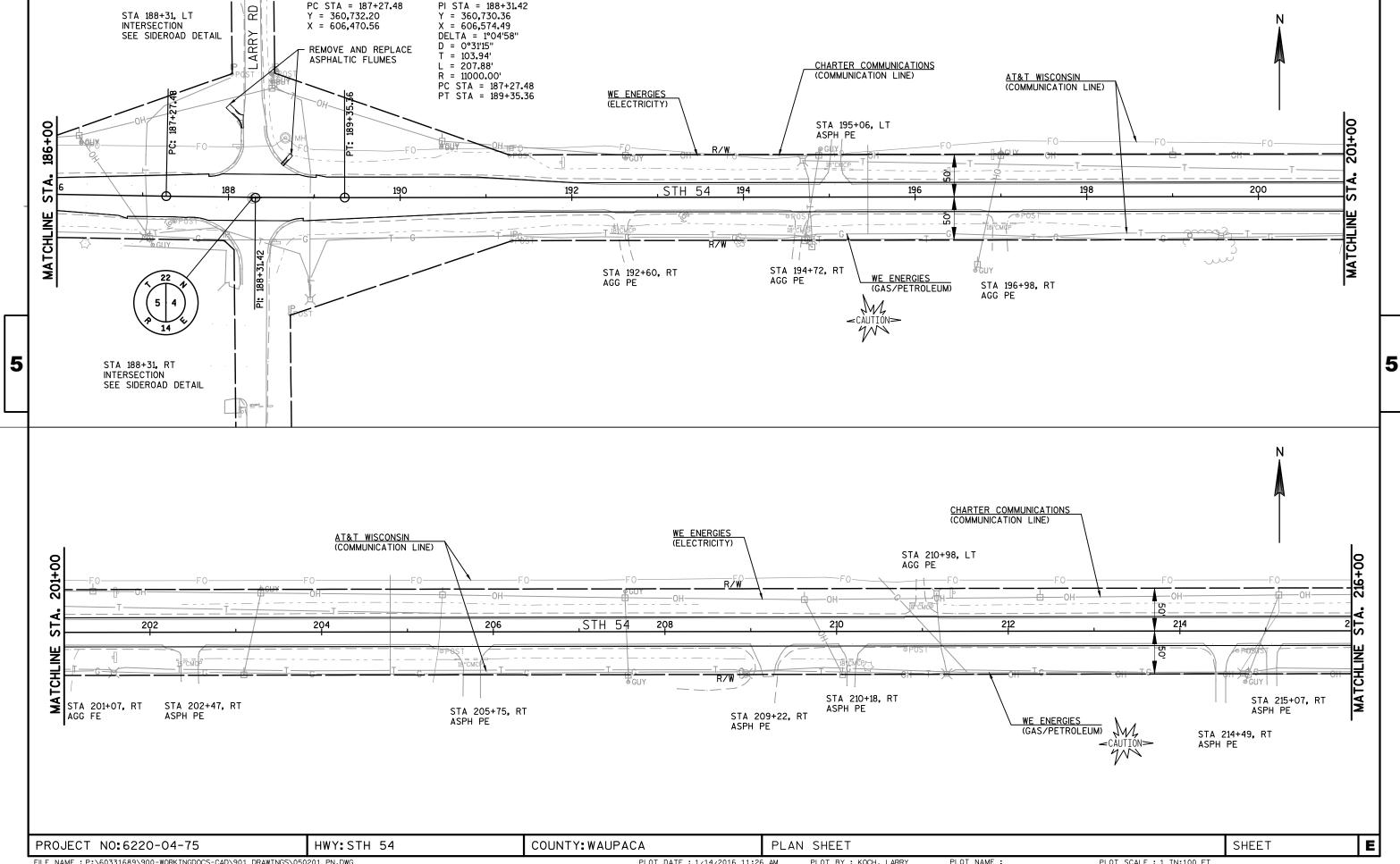
PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA MISCELLANEOUS QUANTITIES SHEET E





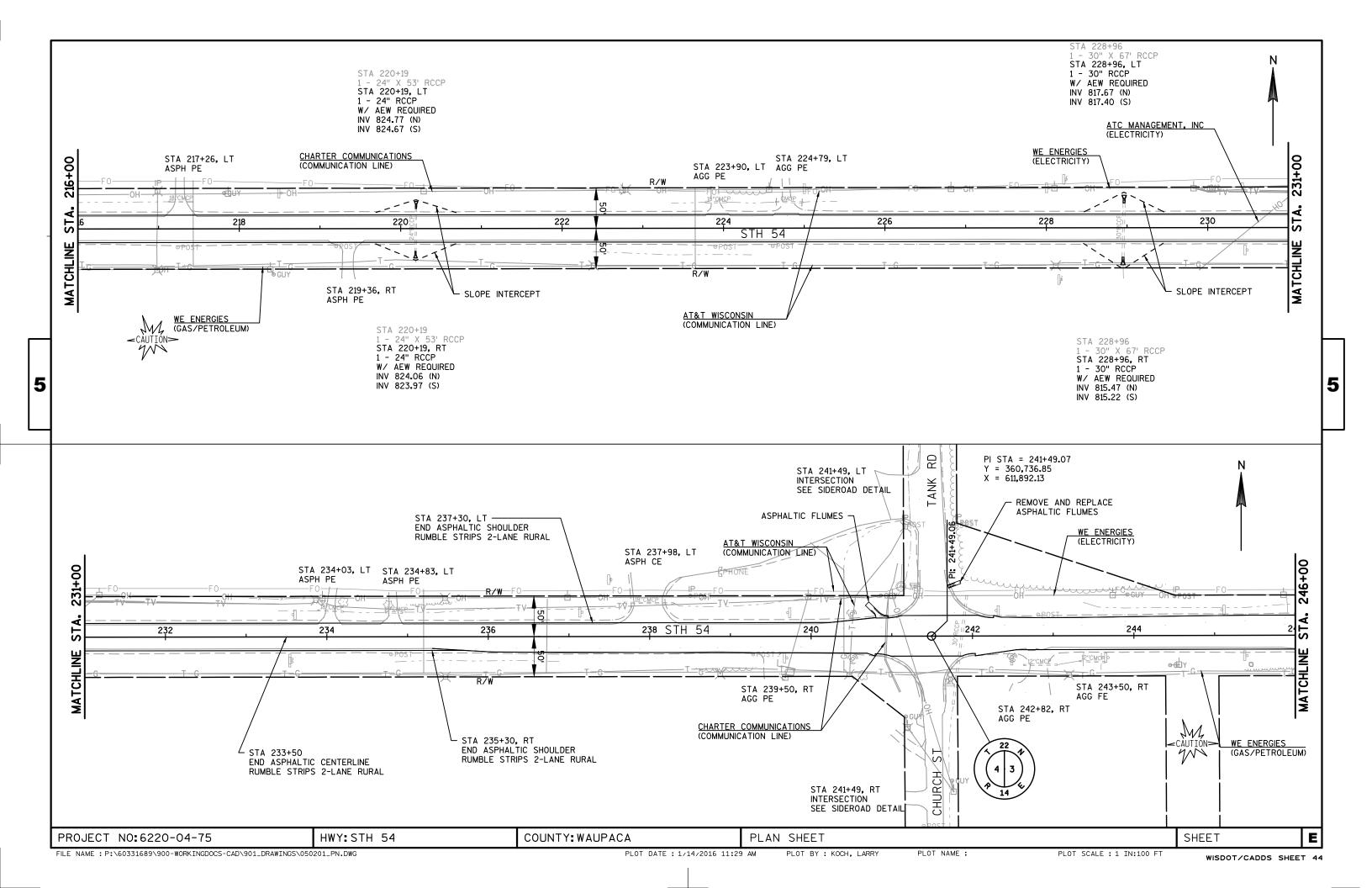
WISDOT/CADDS SHEET 44

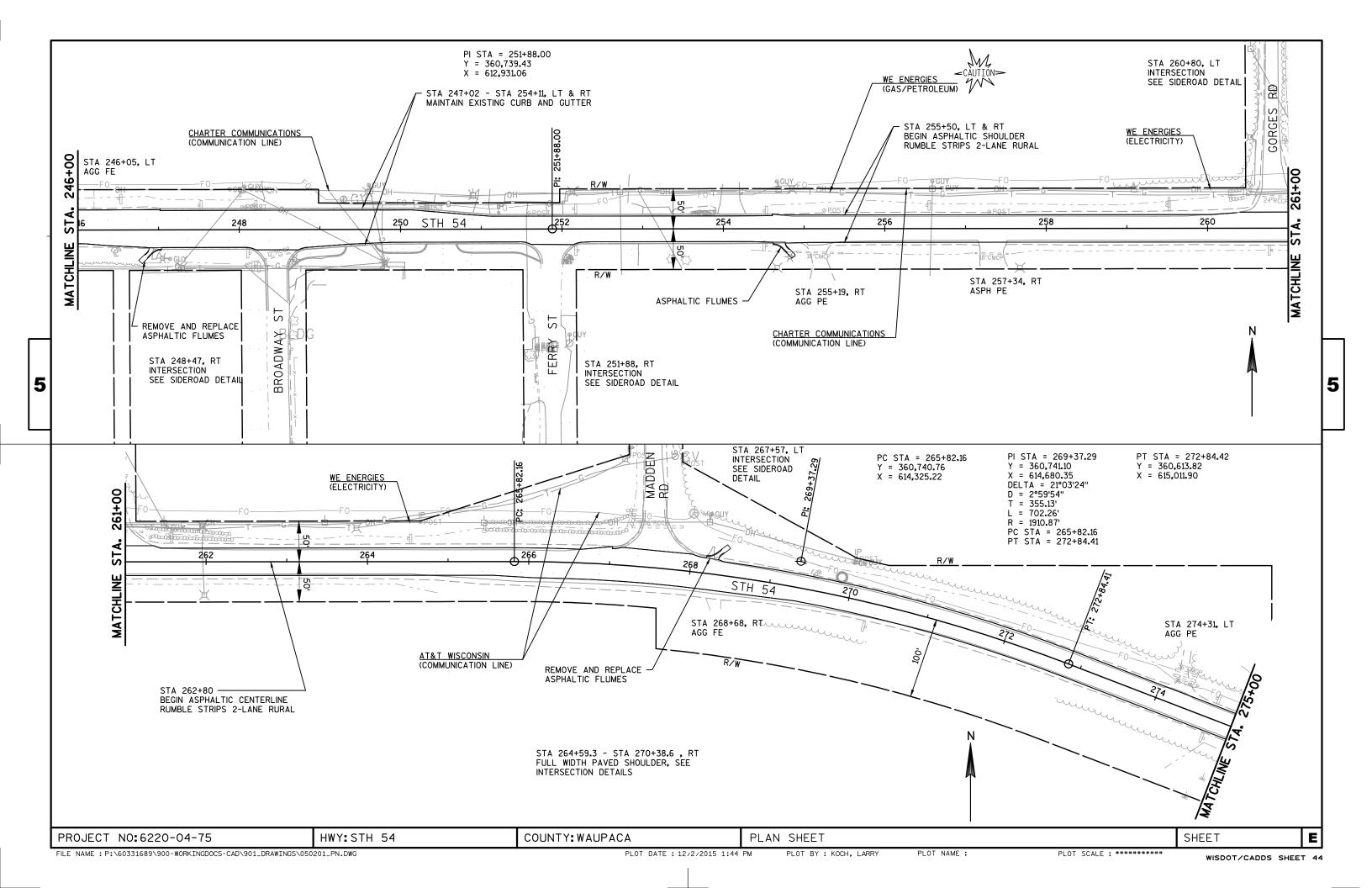


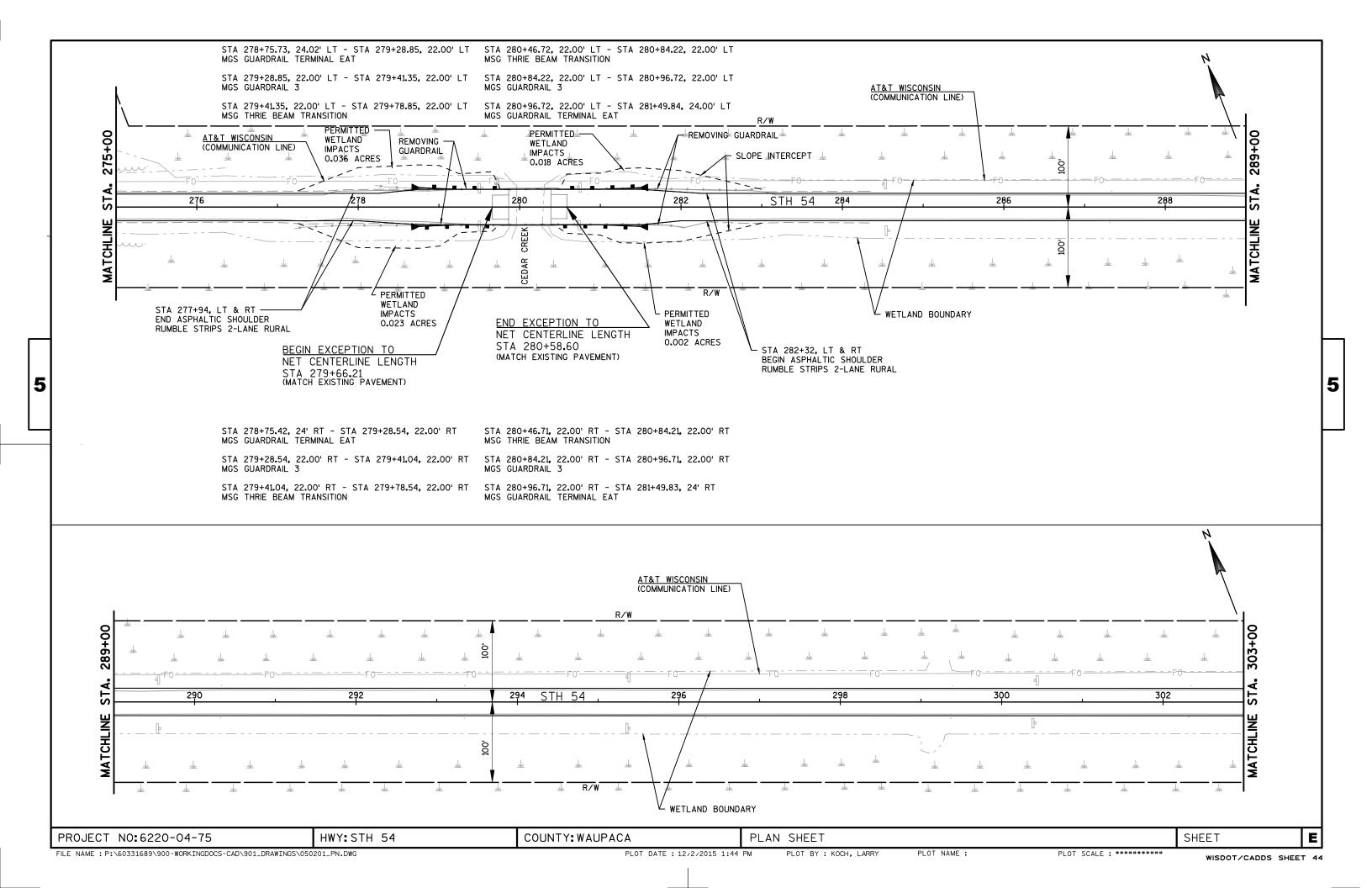


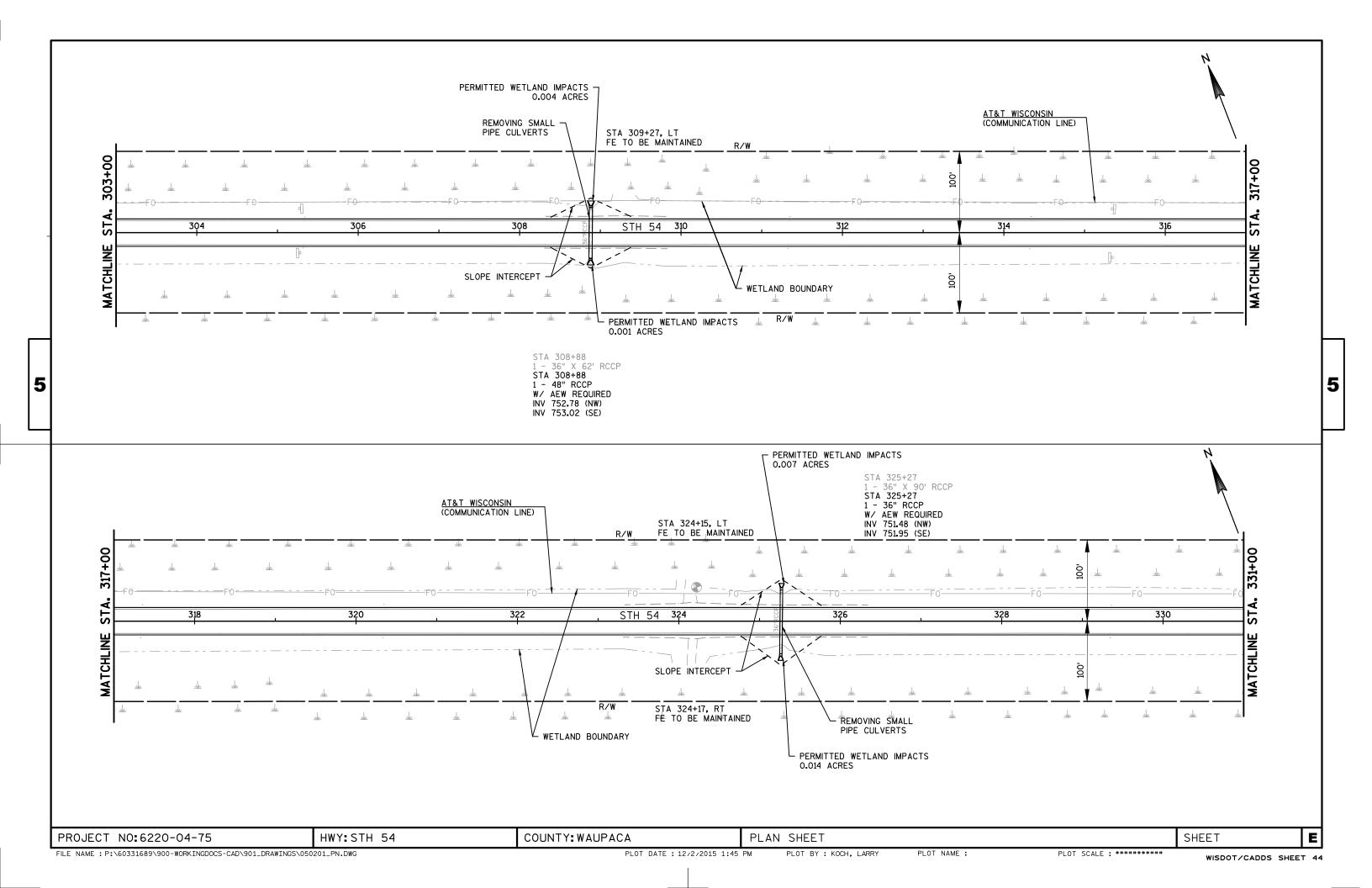
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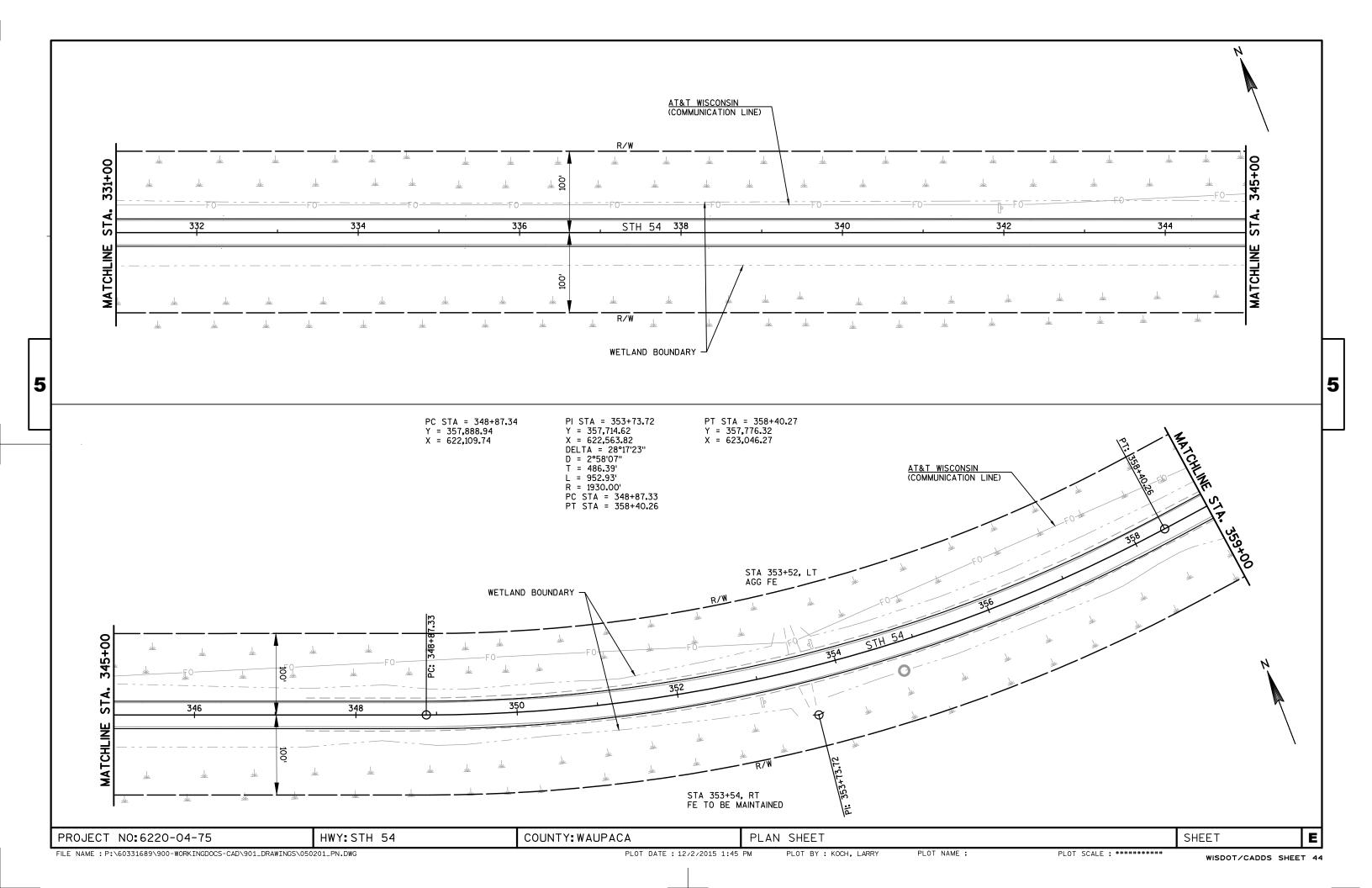
PLOT DATE: 1/14/2016 11:26 AM PLOT BY: KOCH, LARRY PLOT NAME: PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 44

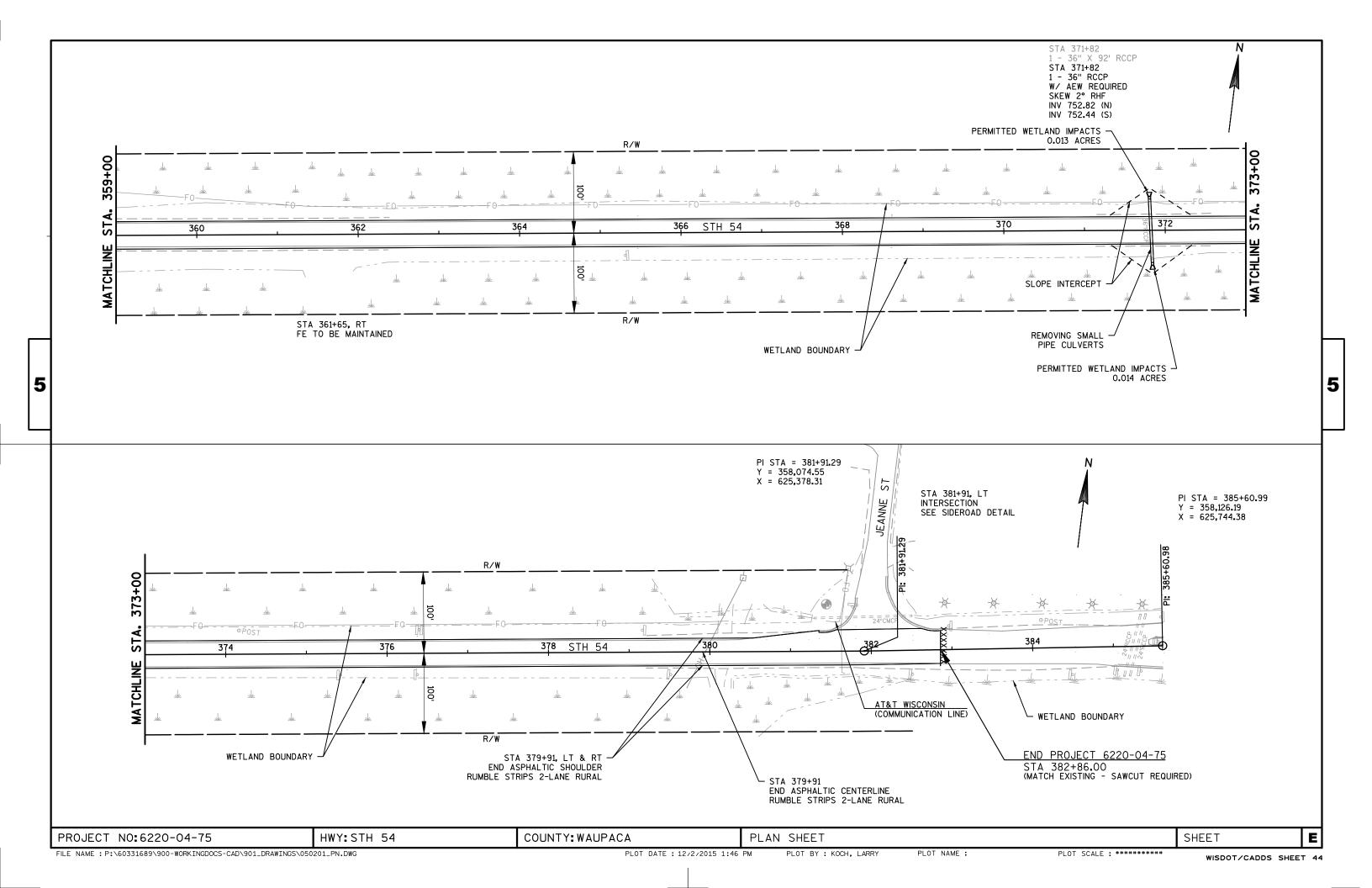






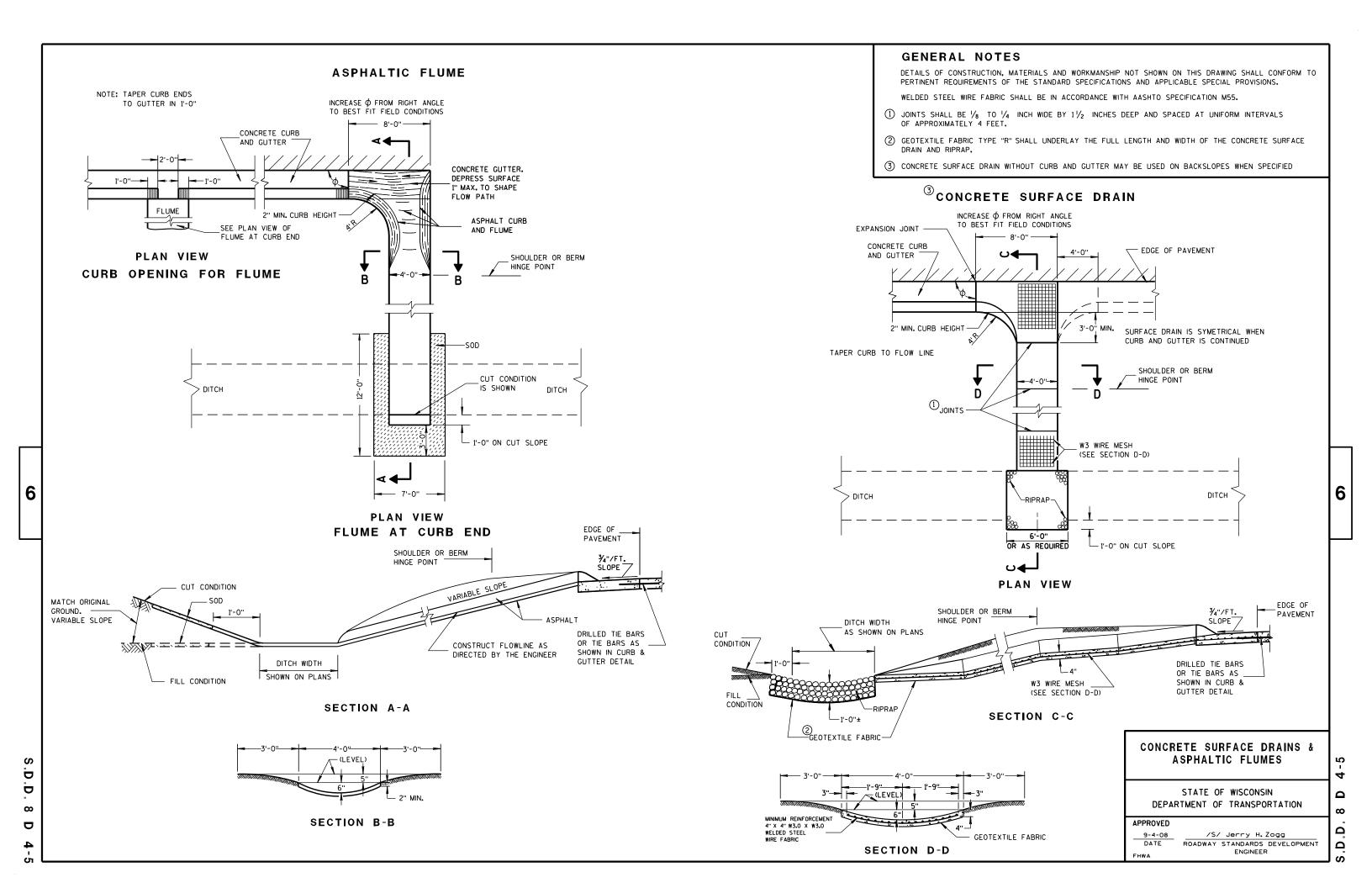






Standard Detail Drawing List

08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRI CADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-03A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS



TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

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

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METAL APRON ENDWALLS											
PIPE MIN. THICK.		DIMENSIONS (Inches)							APPROX.		
DIA.	(Inches)		A	В	Н	L	Γį	L ₂	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2	
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½to 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.

	REINFORCED CONCRETE APRON ENDWALLS							
PIPE		APPROX.						
DIA.	T	A	В	С	D	Ε	G	SLOPE
12	2	4	24	48 72 1/8		24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	21/2	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	**************************************	8 ¹ / ₄ - 100	90	51/2	2% to 1
60	6	* ** 30-35	60	39	99	96	5	2 to 1
66	61/2	* ** 24-30	* * * 72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

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







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

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

DIMPLED BAND MAY BE USED WITH HELICALLY

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

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

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

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

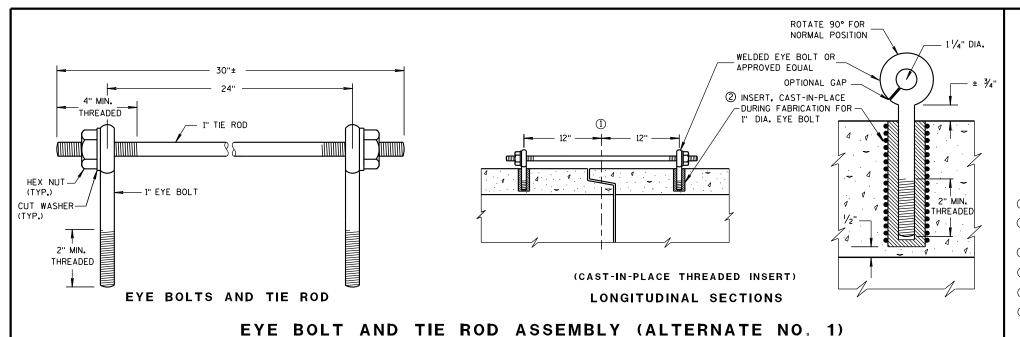
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES.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

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

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



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



GENERAL NOTES

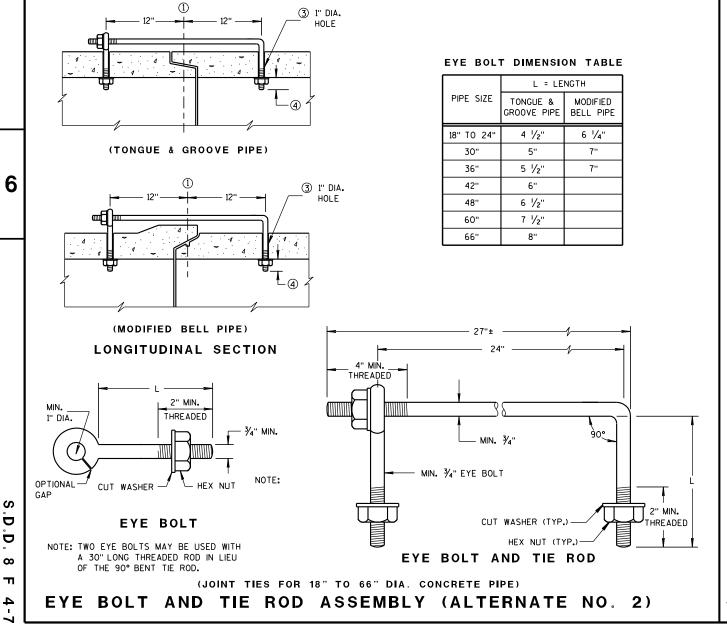
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

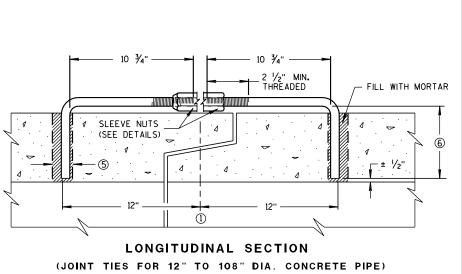
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

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

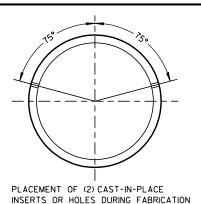
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT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



ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

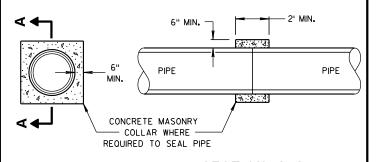


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

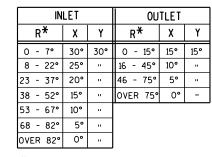
CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

FILL SLOPES FLATTER THAN 2 $\frac{1}{2}$:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

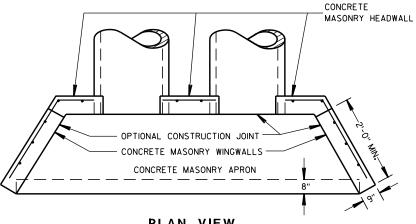
ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

- MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.
- (2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

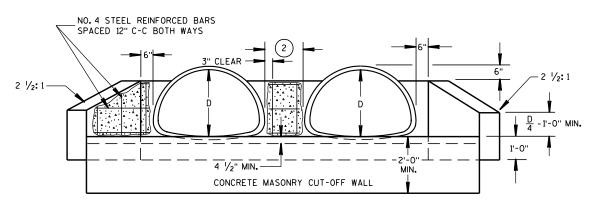
 DIAMETER OR SPAN
 SPACE

 UP TO AND INCLUDING 48"
 2'-0"

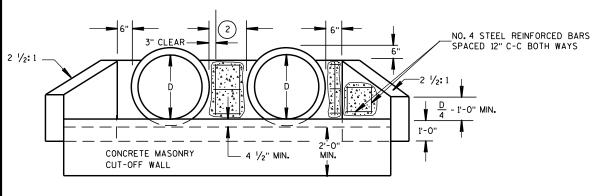
 OVER 48" TO 72"
 ½ DIA. OR SPAN



PLAN VIEW
CULVERT PIPE AND PIPE ARCH

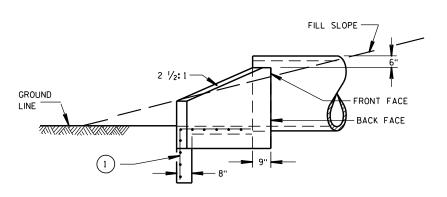


PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS
FOR CULVERT PIPE AND
PIPE ARCH

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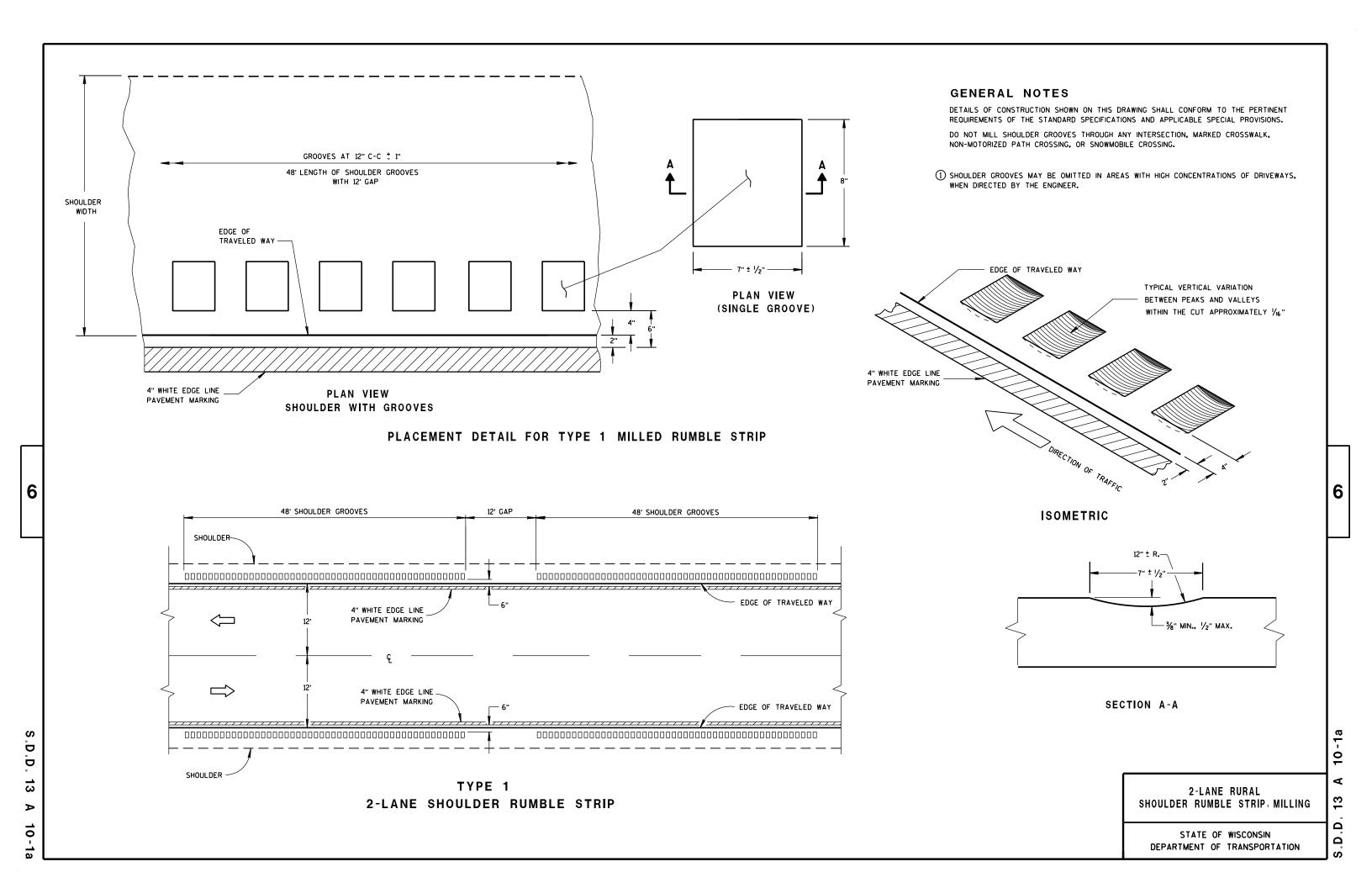
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

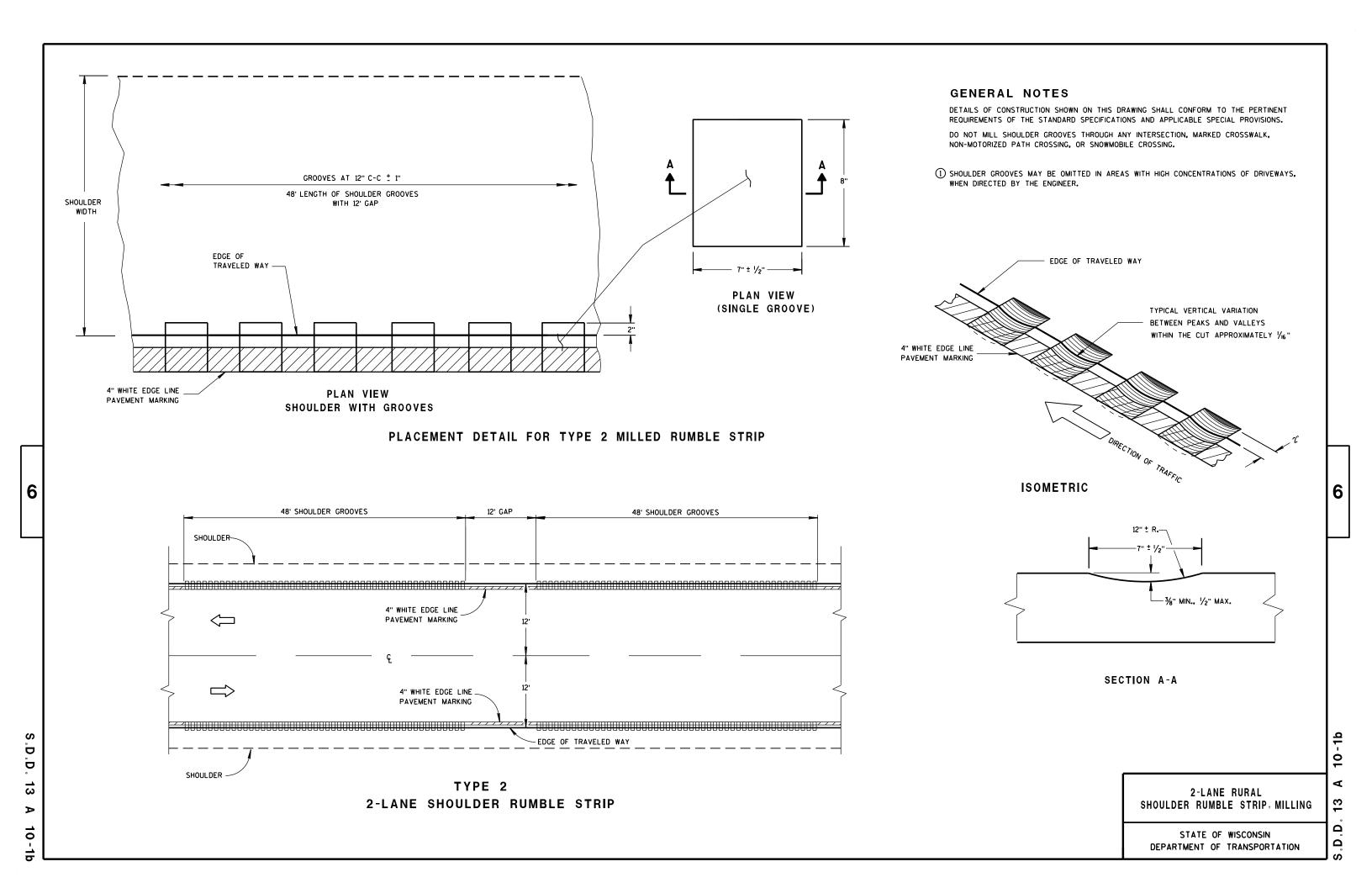
APPROVED

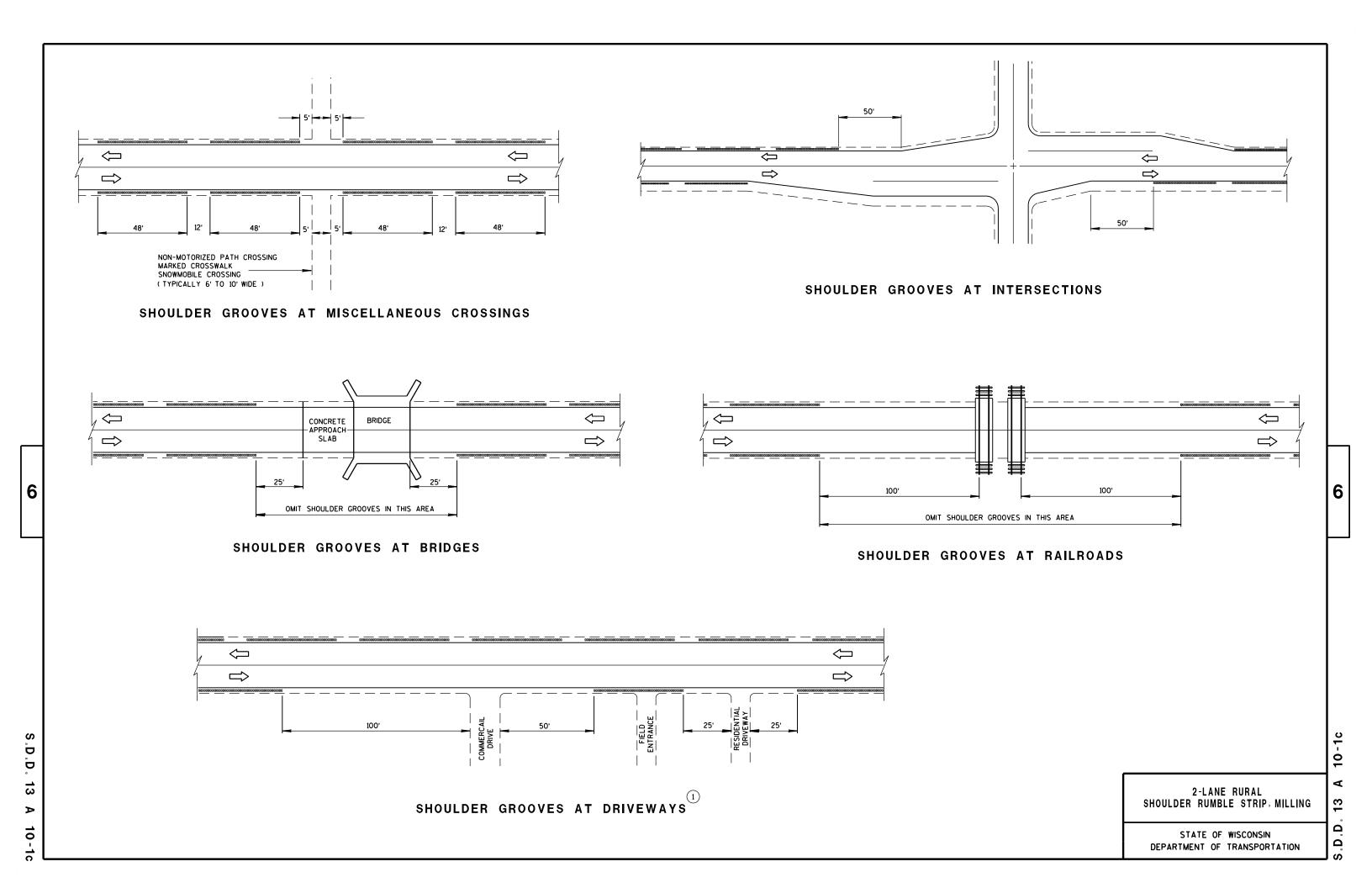
9/14/98 / S/ Rory L. Rhinesmith

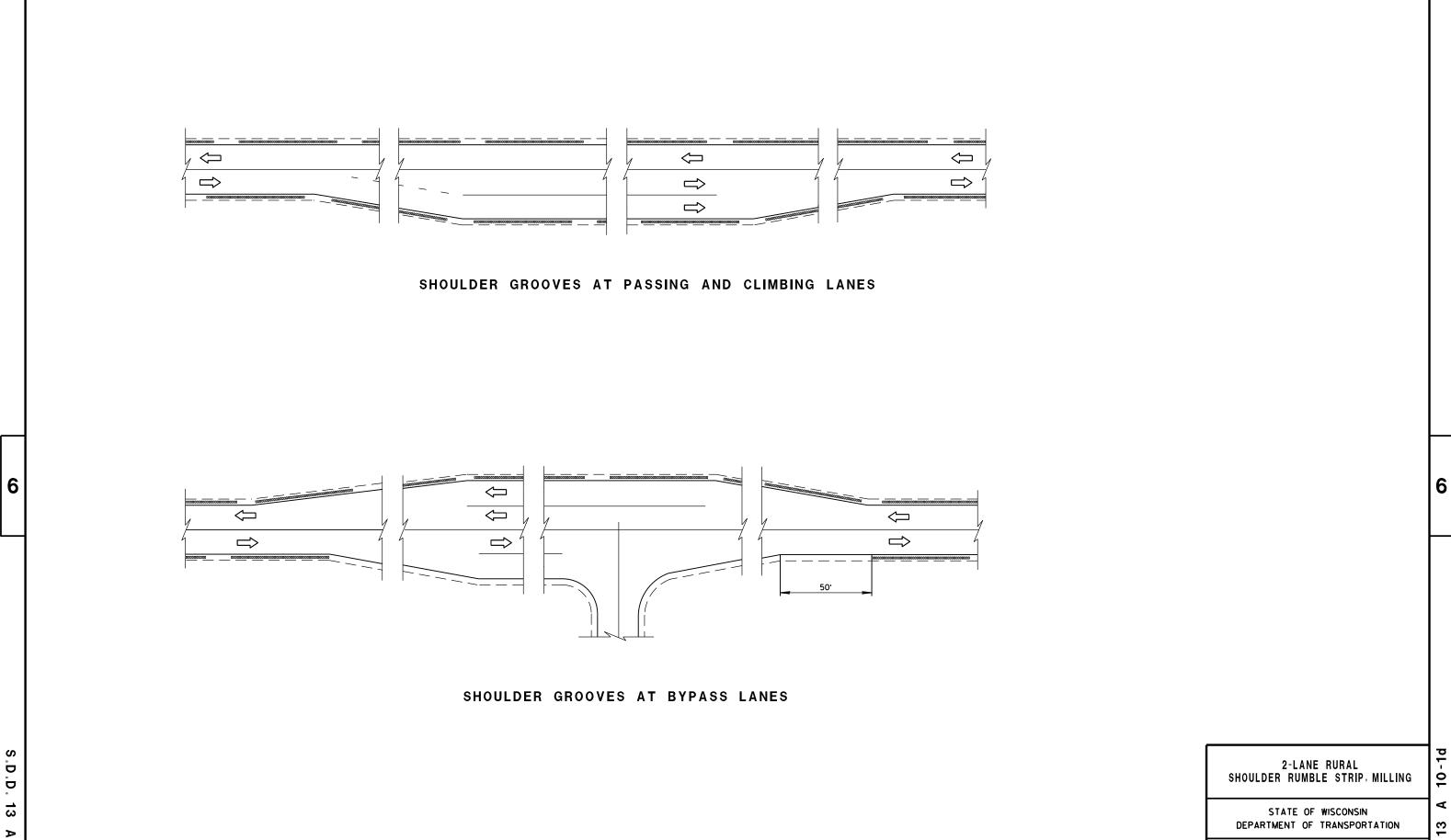
CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 F 10





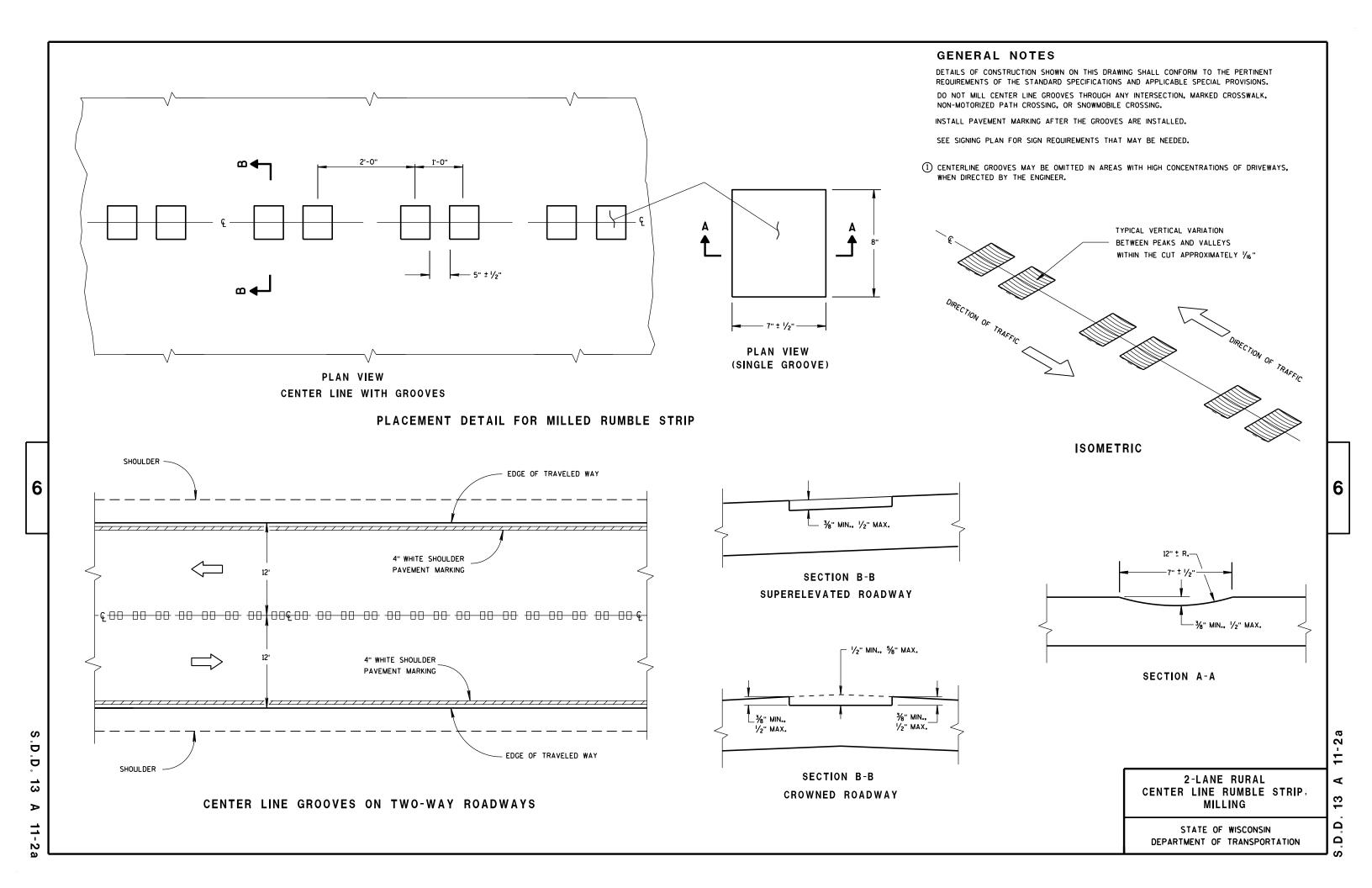


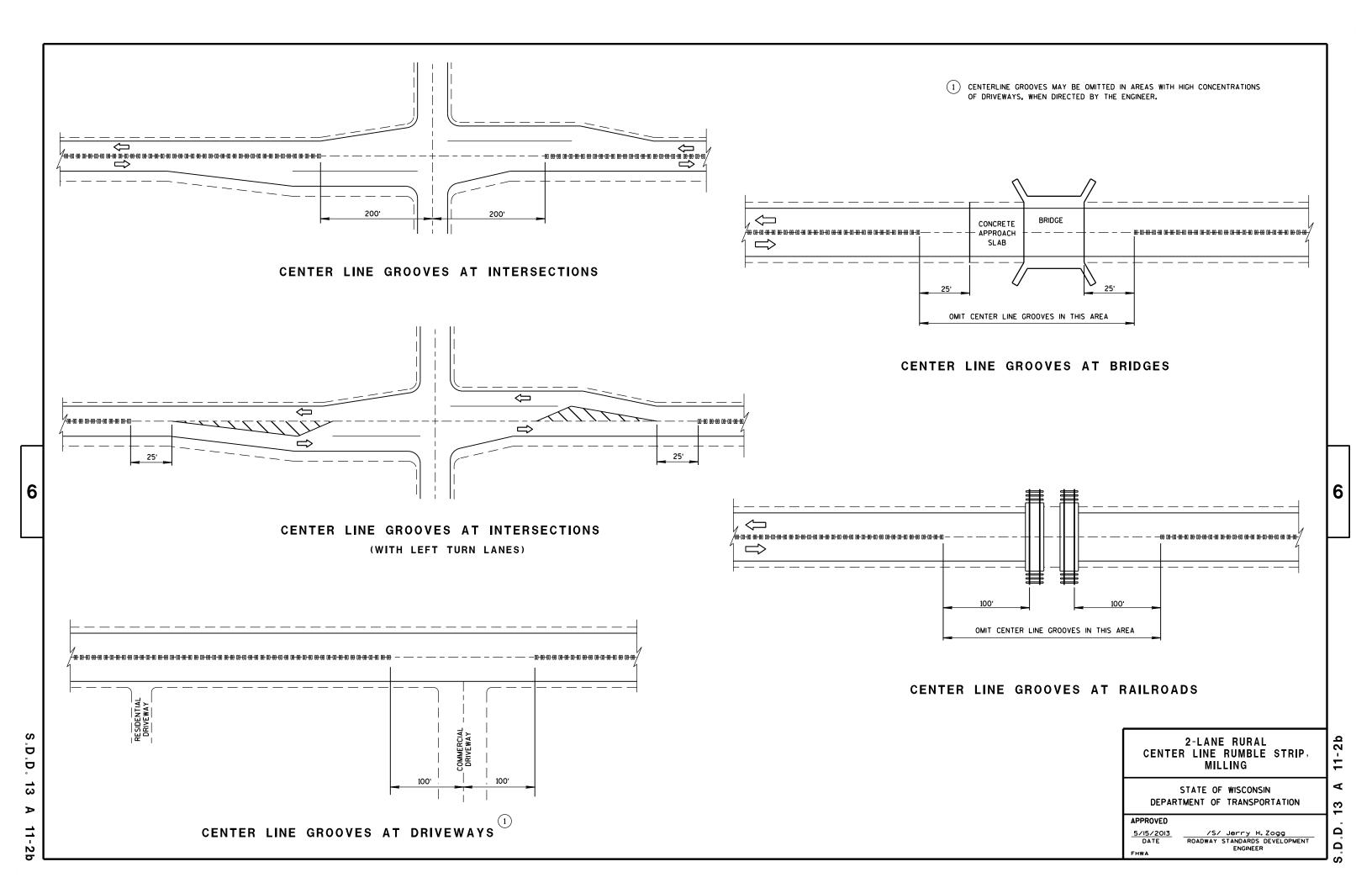


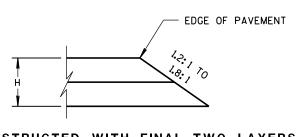
10-1d

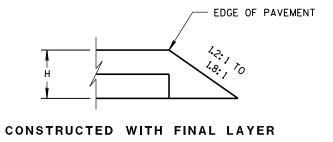
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/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER 12/17/2012 DATE





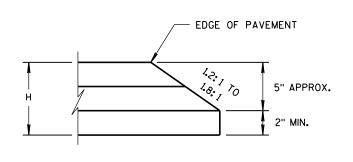


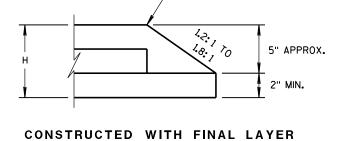


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





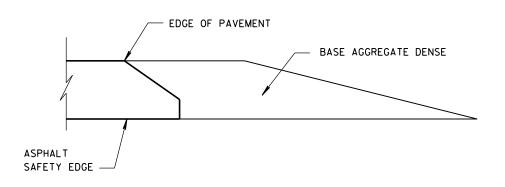
FOR H GREATER THAN 5"

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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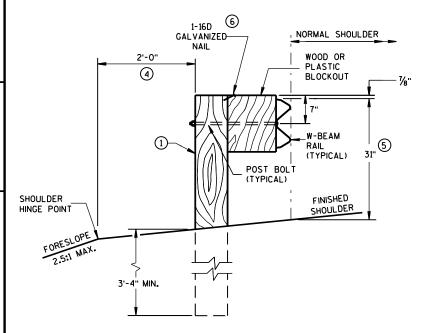
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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

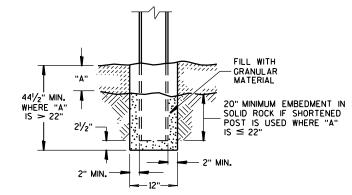
GENERAL NOTES

- (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

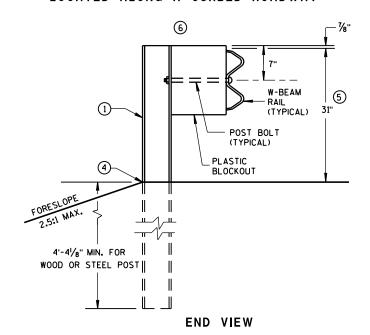
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



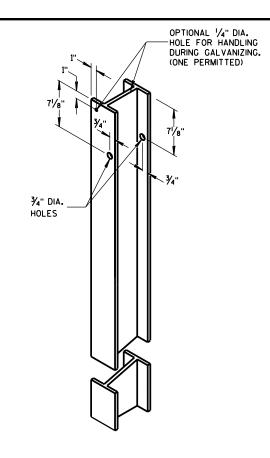
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



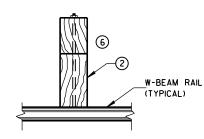
END VIEW
LOCATED ALONG A CURBED ROADWAY



MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



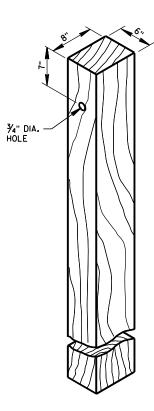
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



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

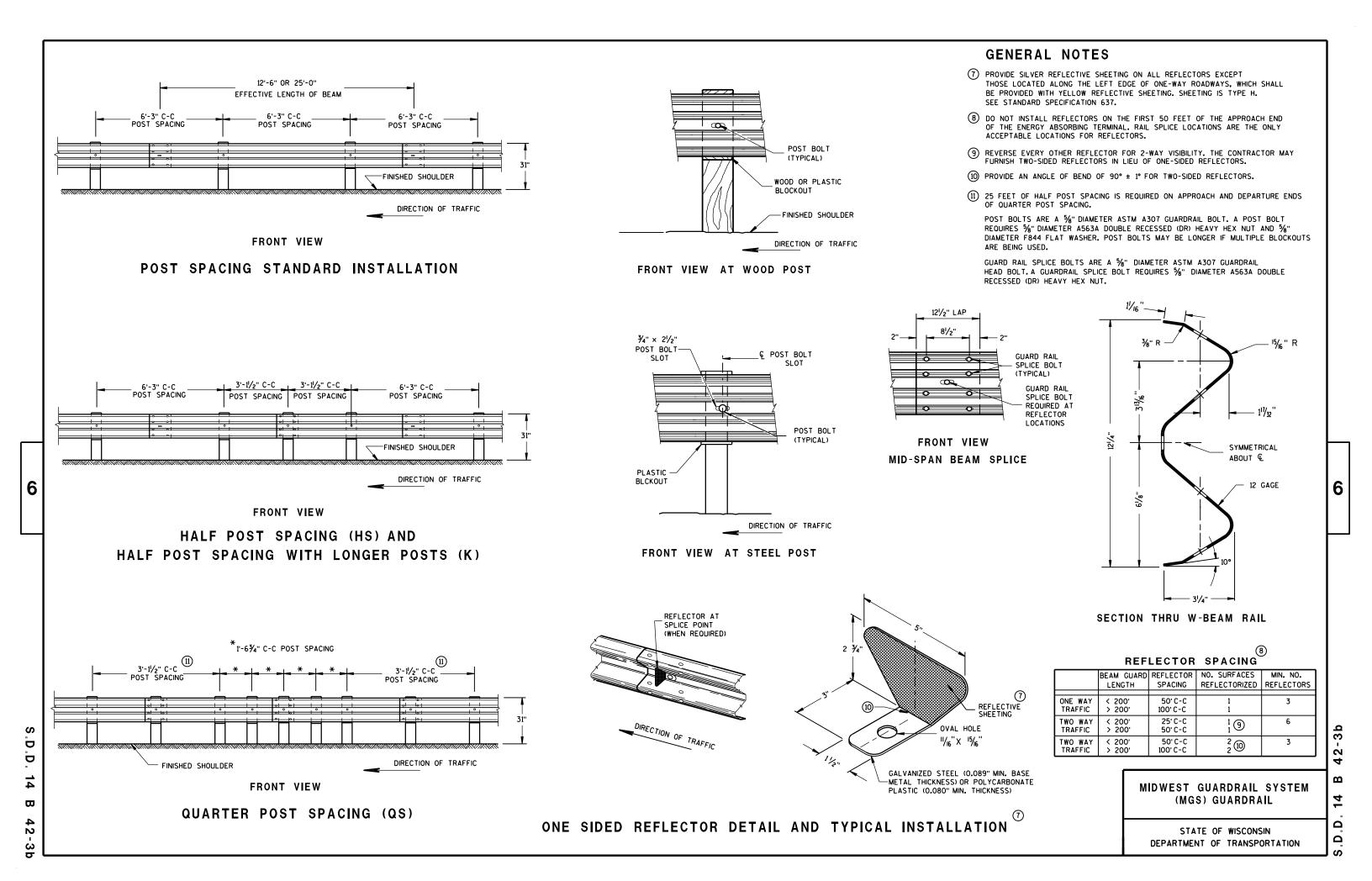
S.D.D. 14 B 4

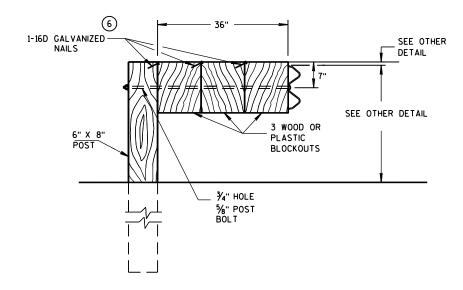
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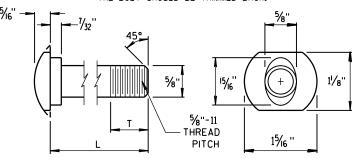


DETAIL FOR 36" BLOCKOUT DEPTH

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.

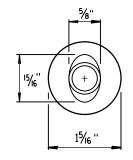
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

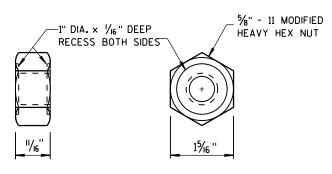


POST BOLT TABLE

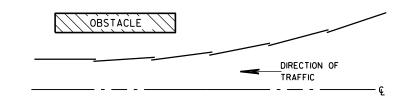
11/8"
437
13/4"
4"
41/16"
4"
41/16"
4"



ALTERNATE BOLT HEAD

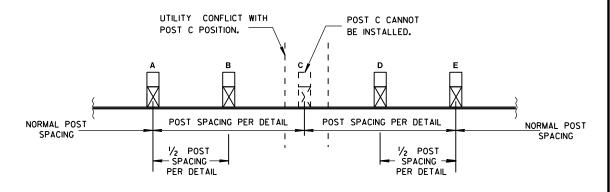


POST BOLT AND RECESS NUT



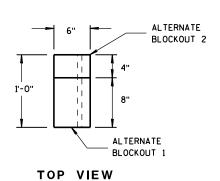
PLAN VIEW

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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SECTION A-A SECTION B-B

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PLAN VIEW

BILL OF MATERIALS

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



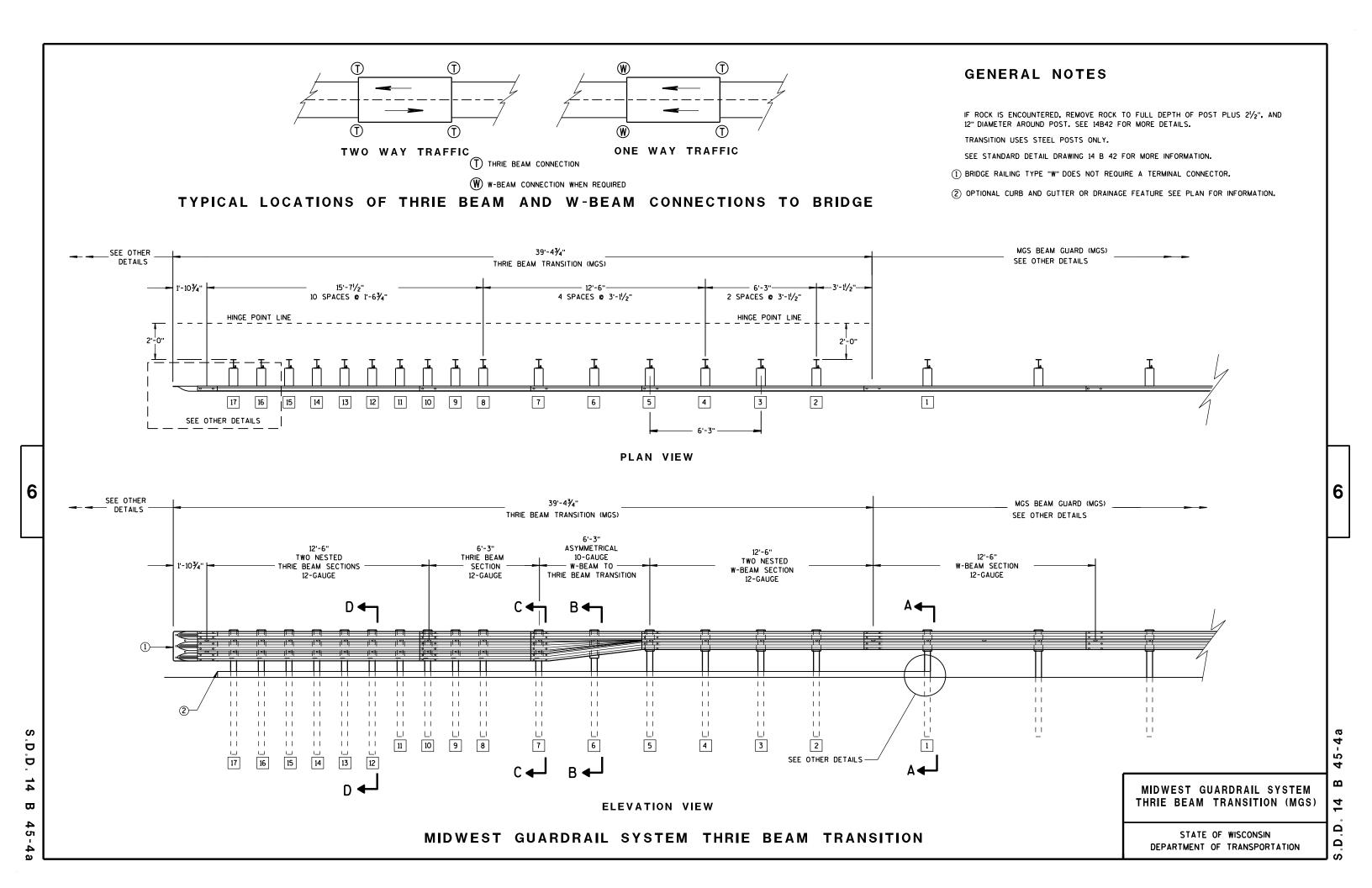
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

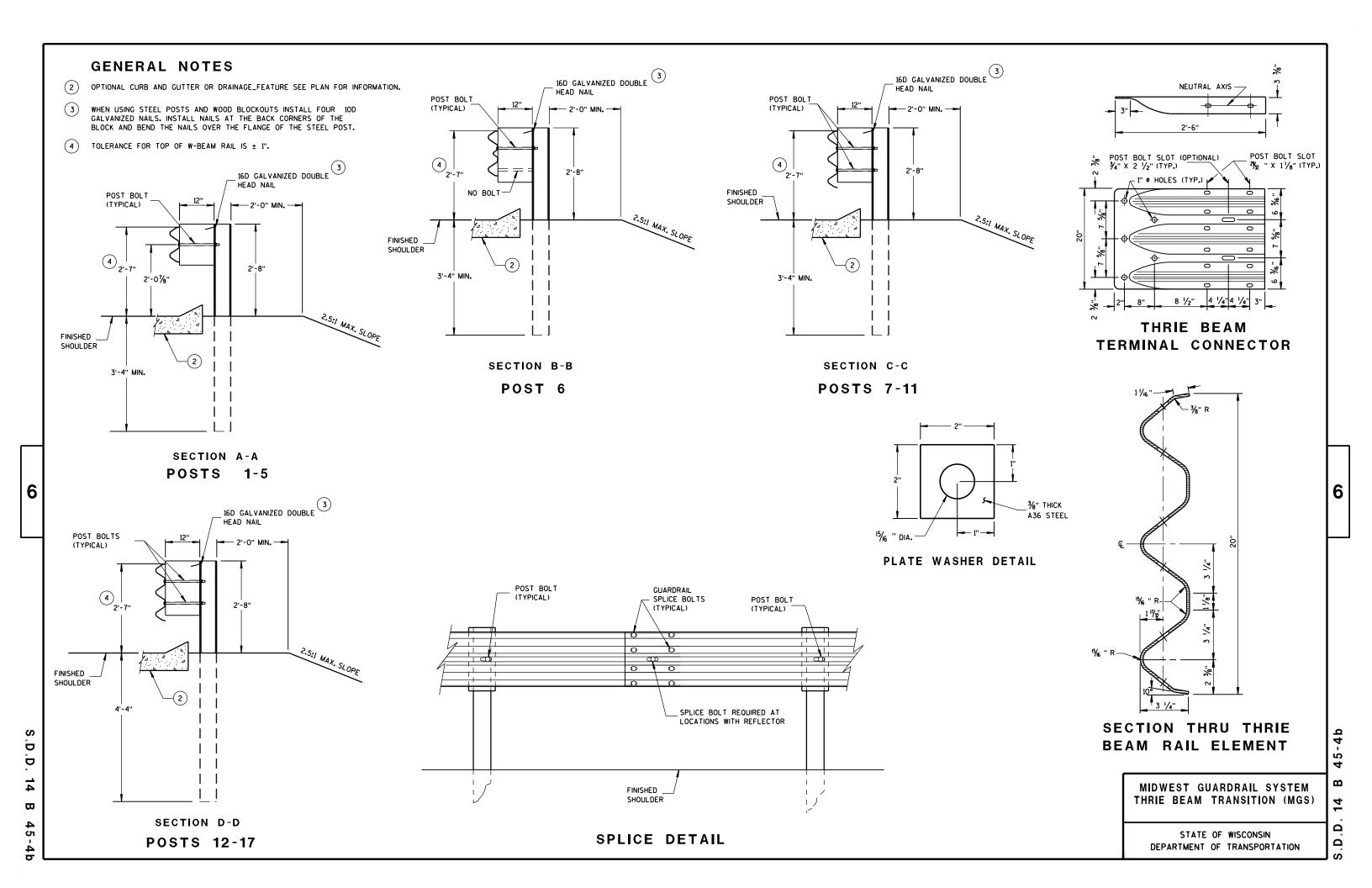
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

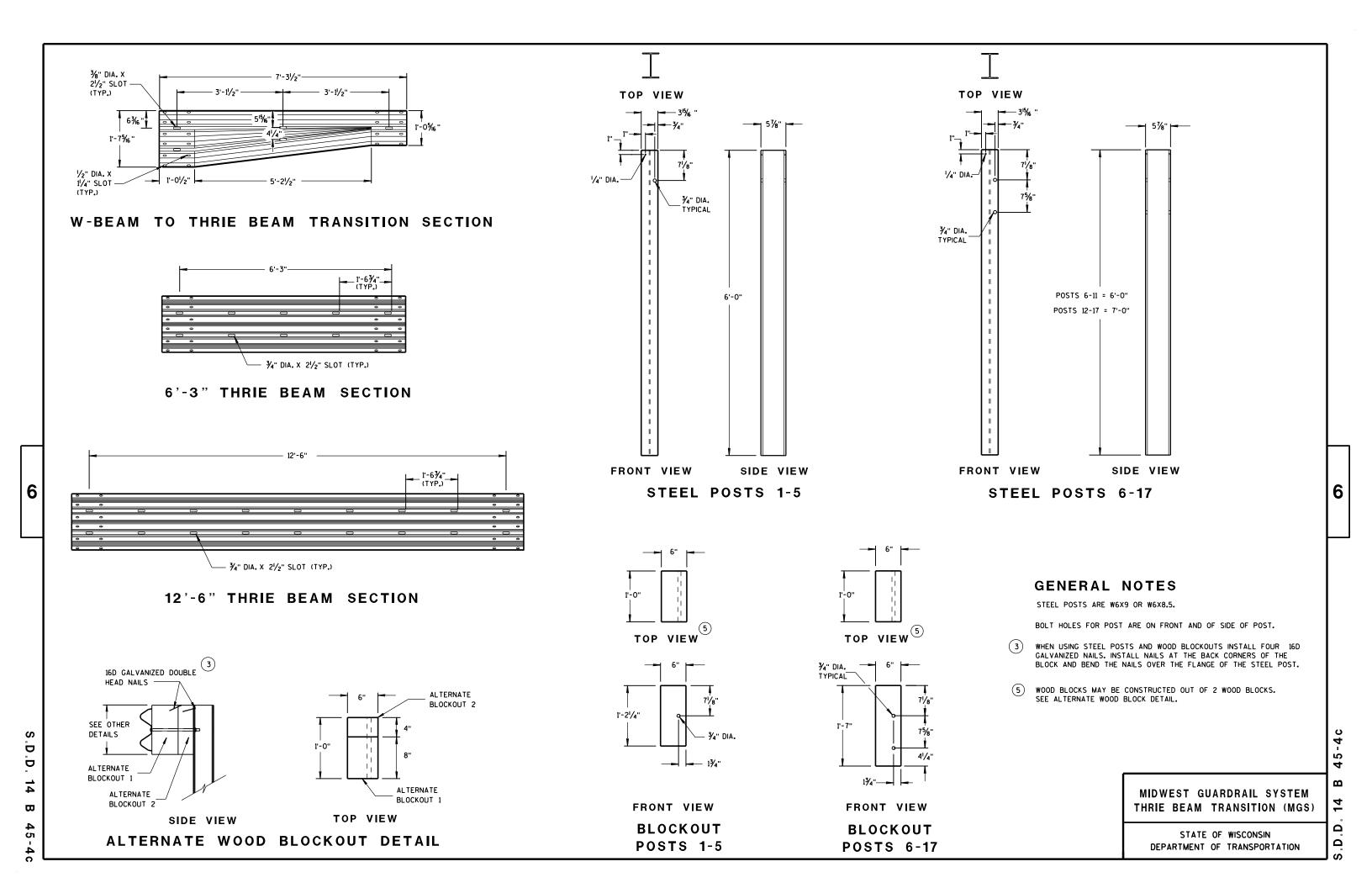
44-2b

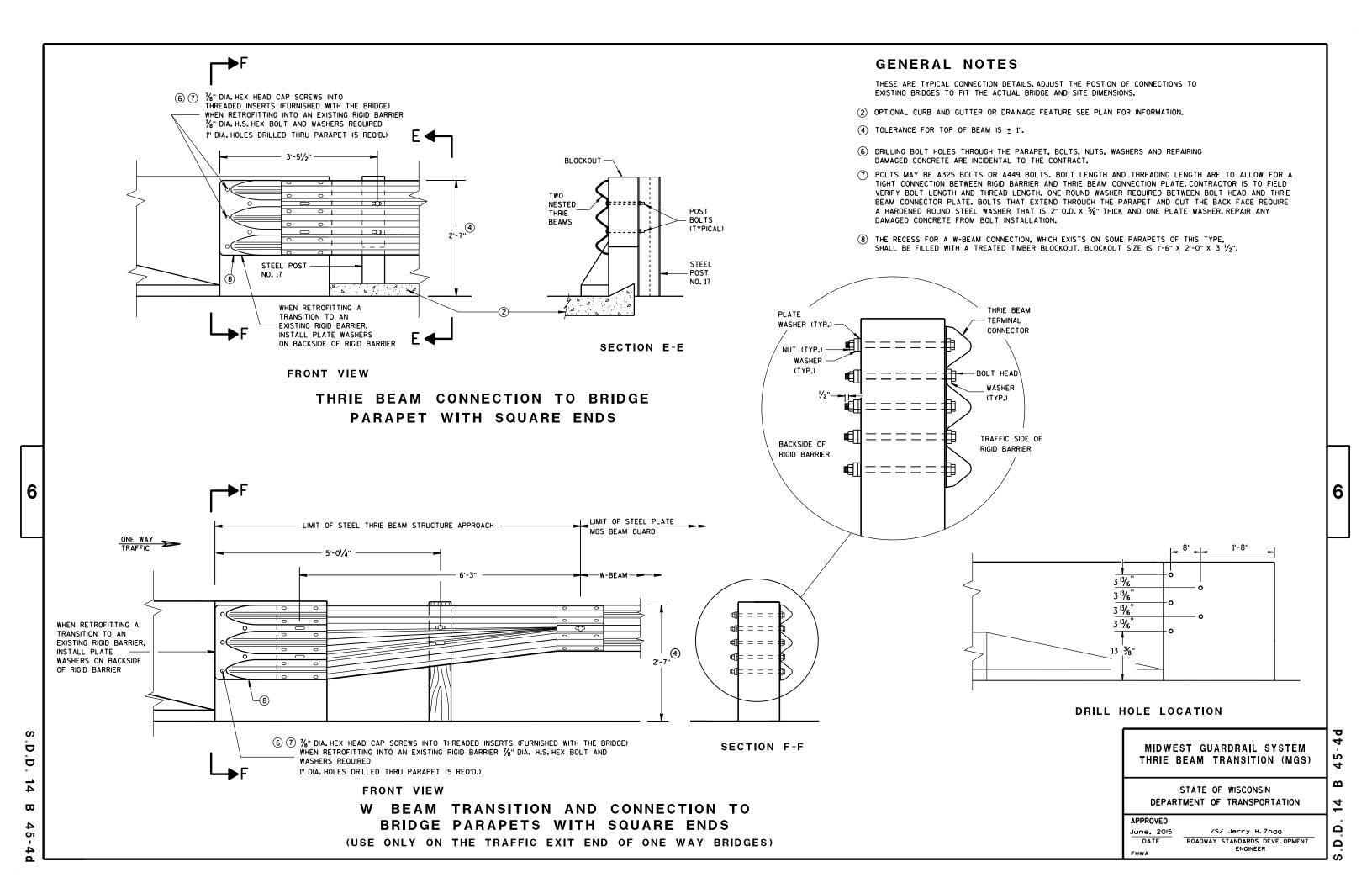
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THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

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

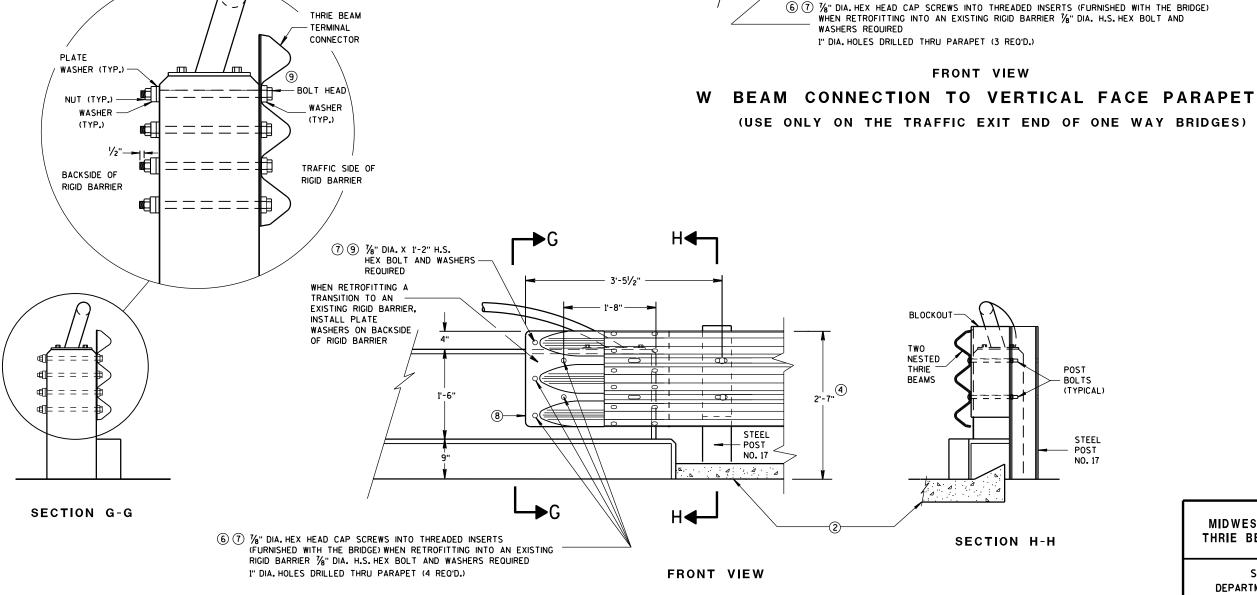
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- (6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND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



THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

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

REQUIRED

WHEN RETROFITTING

A TRANSITION TO

AN EXISTING RIGID

BARRIFR, INSTALL

PLATE WASHERS

ON BACKSIDE OF

RIGID BARRIER

HEX BOLT AND WASHERS

W BEAM TERMINAL -

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MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

LIMIT OF STEEL PLATE

MGS BEAM GUARD

ONE WAY

TRAFFIC

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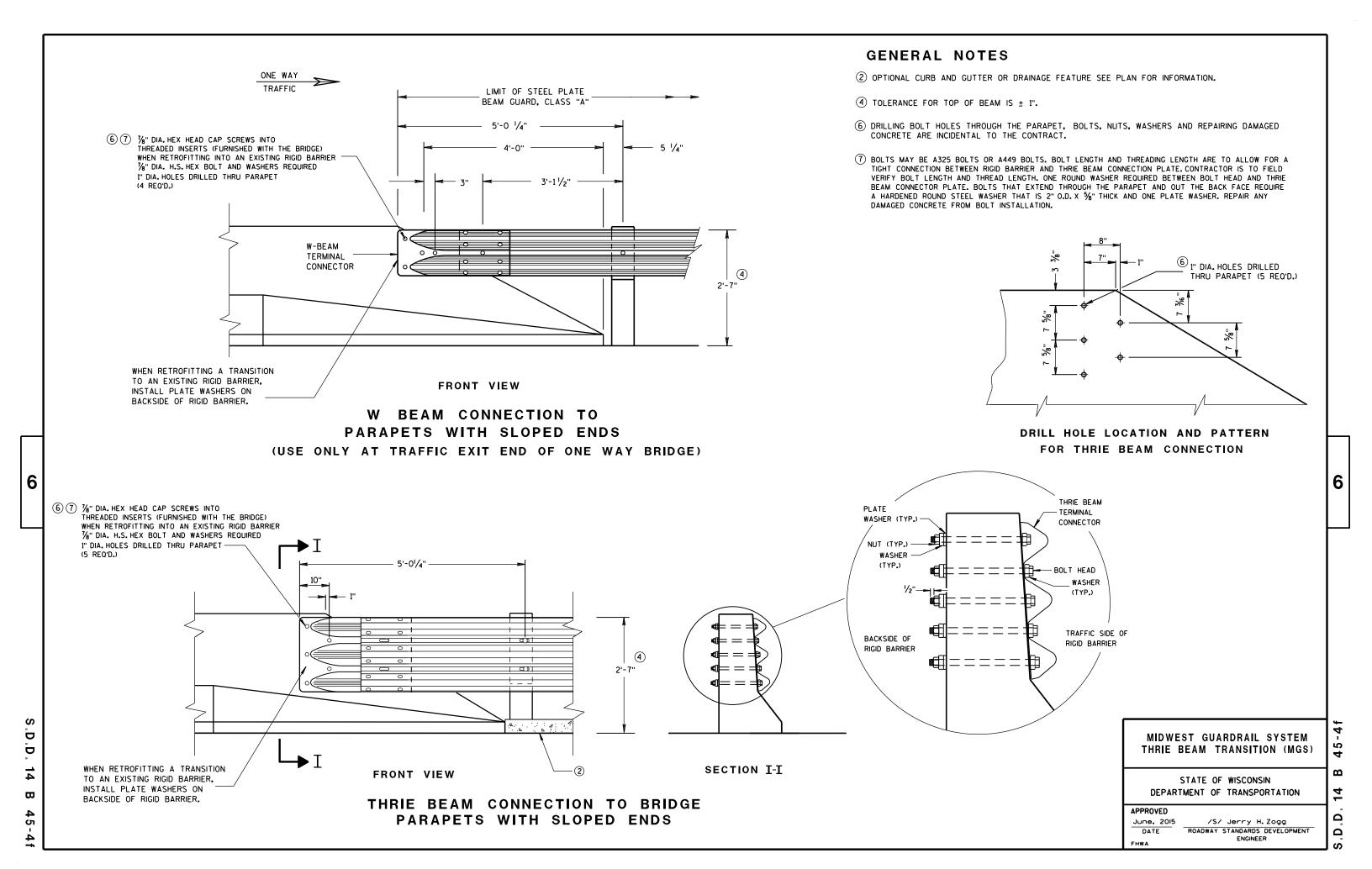
2'-7"

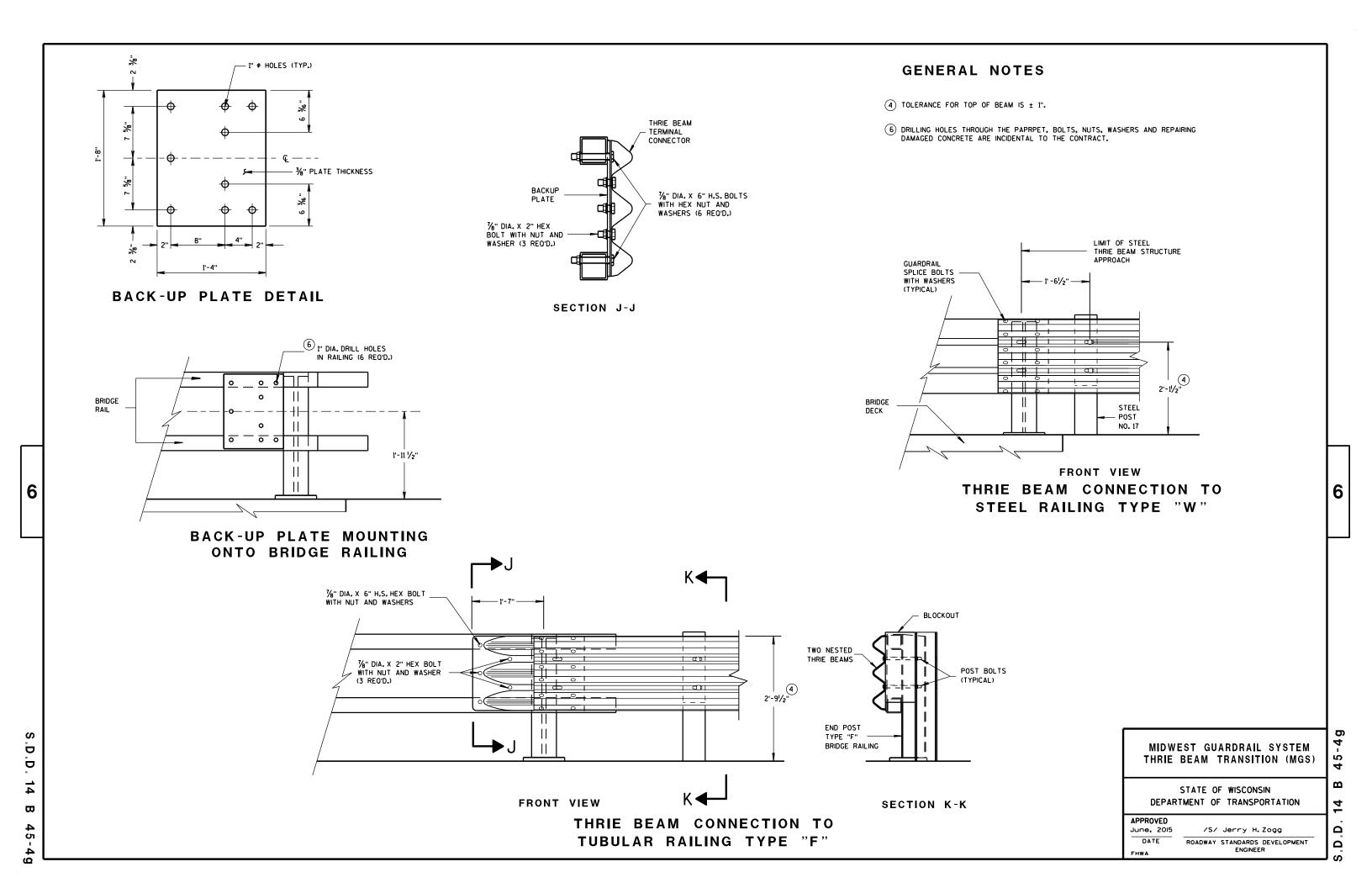
5'-0 1/4" —

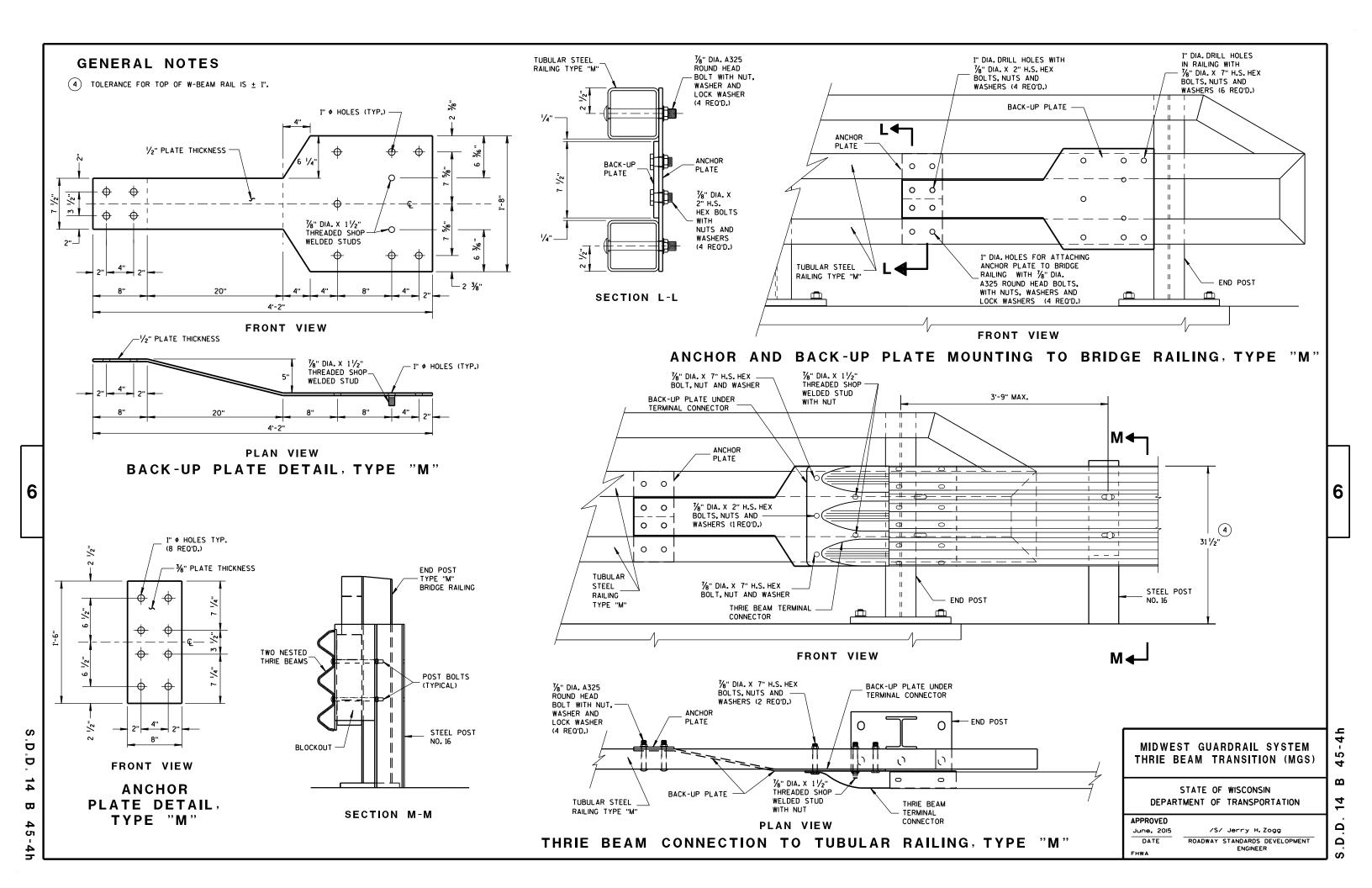
- 3'-1¹/₂"

ROADWAY STANDARDS DEVELOPMENT ENGINEER

S.D







(PER ASSEMBLY)												
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS								
P1	1	в₫	20" × 20"	3/6"								
P2	1	B∱c	20" × 20" × 28%6"	¾6 "								
Р3	1	B&D	39" × 35/8" × 20" × 195/6"	3/6 "								
S1	4	B A	18 % 6" × 3 % " × 18 ¾ "	1/4"								
S2	1	B D	10 ¹ / ₄ " × 2 ⁷ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"								
S3	1	B₽₽	3" × 1½6" × 3½" × ½"	1/4"								
S4	1	в₫	61/8" × 21/16"	1/4"								
S5	1	в₾	6½" × ½"	1/4"								
S6	1	в₾	7¾" × 1¾"	1/4"								
S7	1	A DC	2%6" × 6" × 35%" × 57%"	1/4"								
S8	1	4 <u>0</u> 2	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"								
S9	1	C ∏R	6½6" × 6¾6" × 1¾2"	1/4"								
S10	1	A D C	11/8" × 91/8" × 35/8" × 911/16 "	1/4"								
S11	1	c ≜	8½" × 8¾" × 1¼6 "	1/4"								

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SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

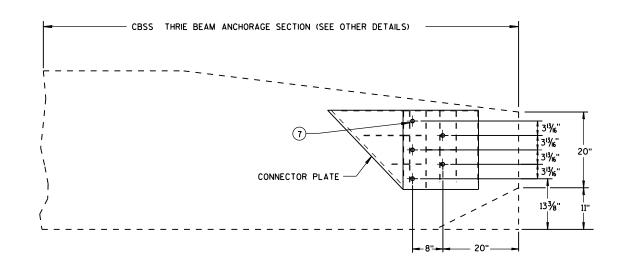
APPROVED	
2015	

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

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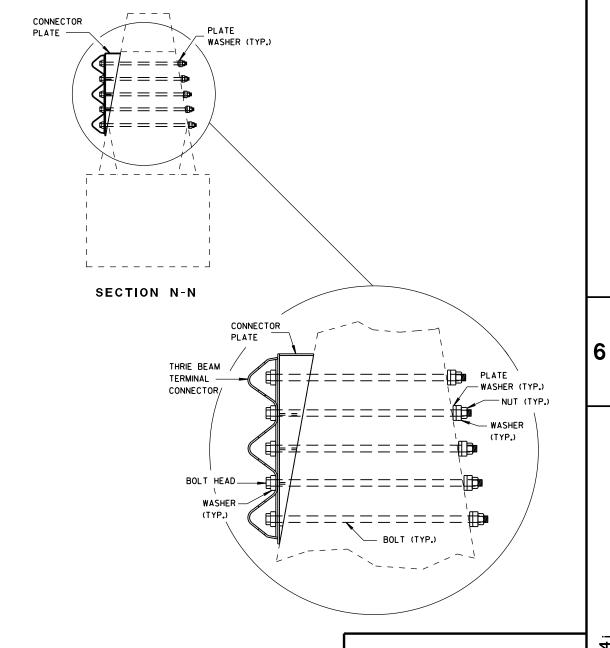


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

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

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



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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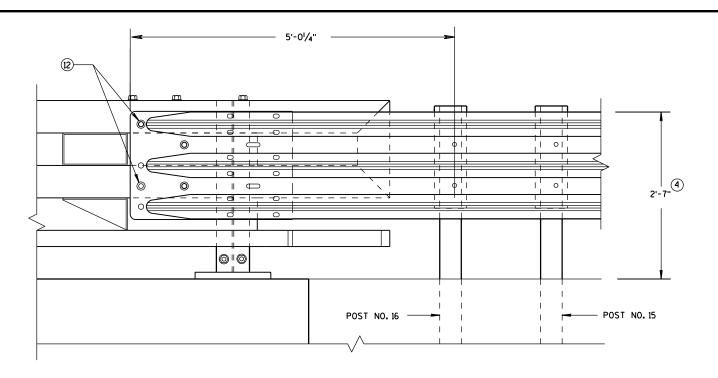
APPROVED
June, 2015 /S.

FHWA

OIS /S/ Jerry H. Zogg

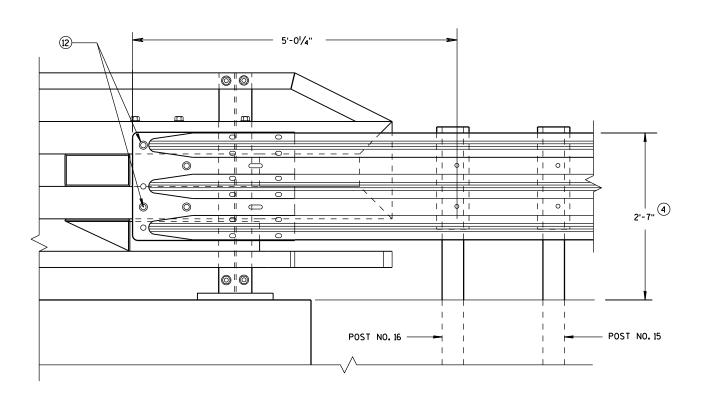
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

S.D.D. 14 B 4



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

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

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) 6

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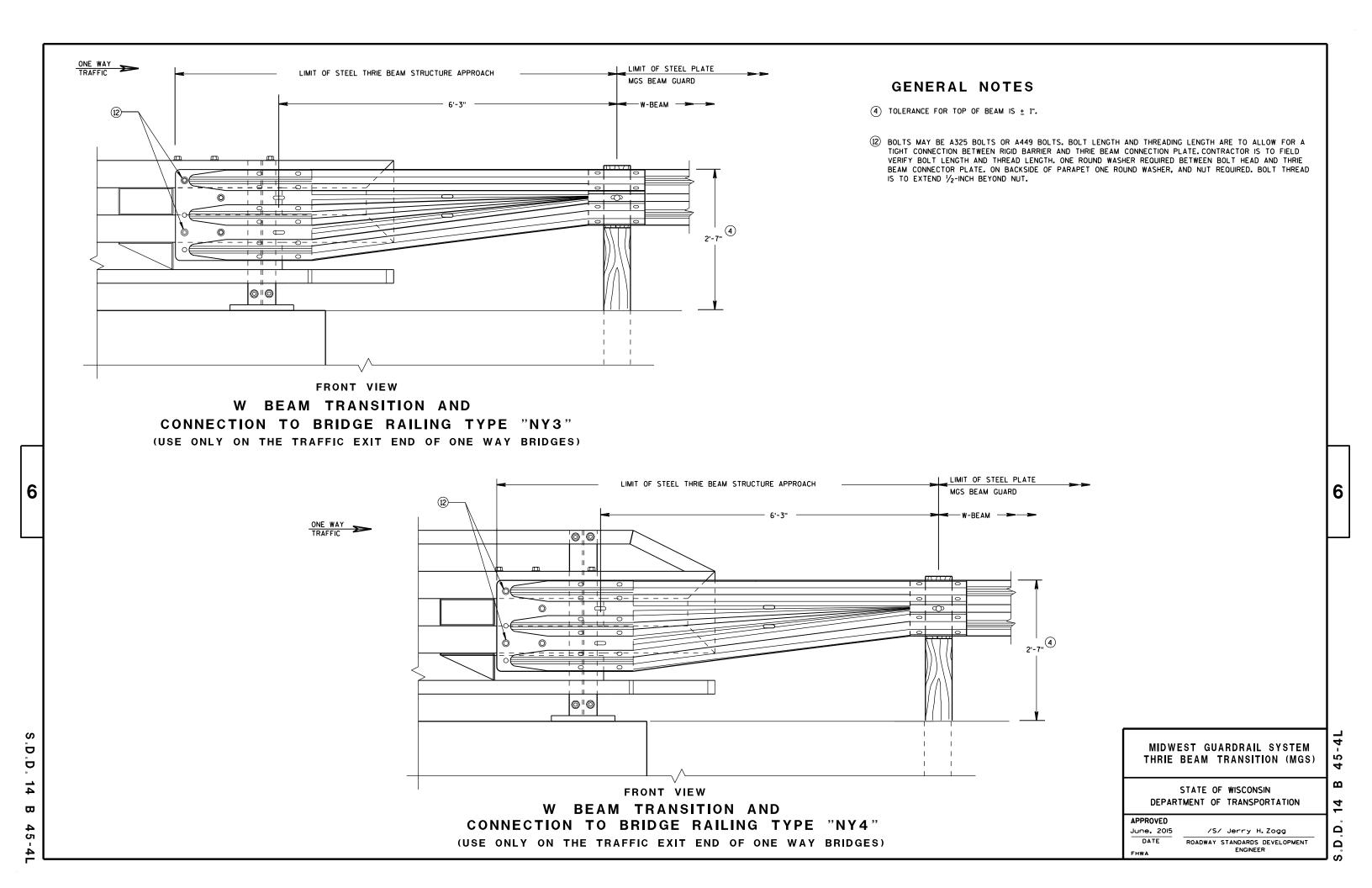
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

2

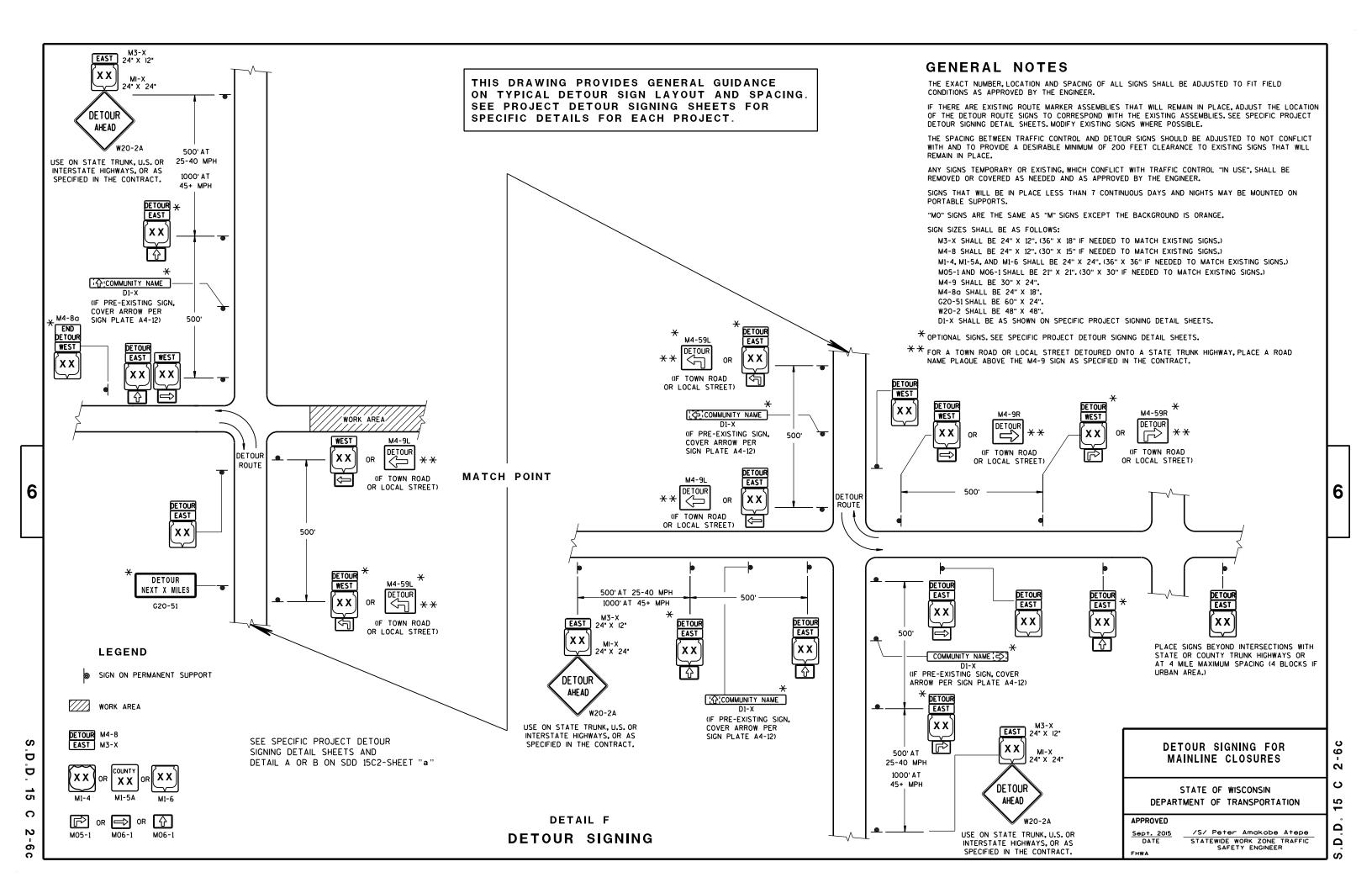
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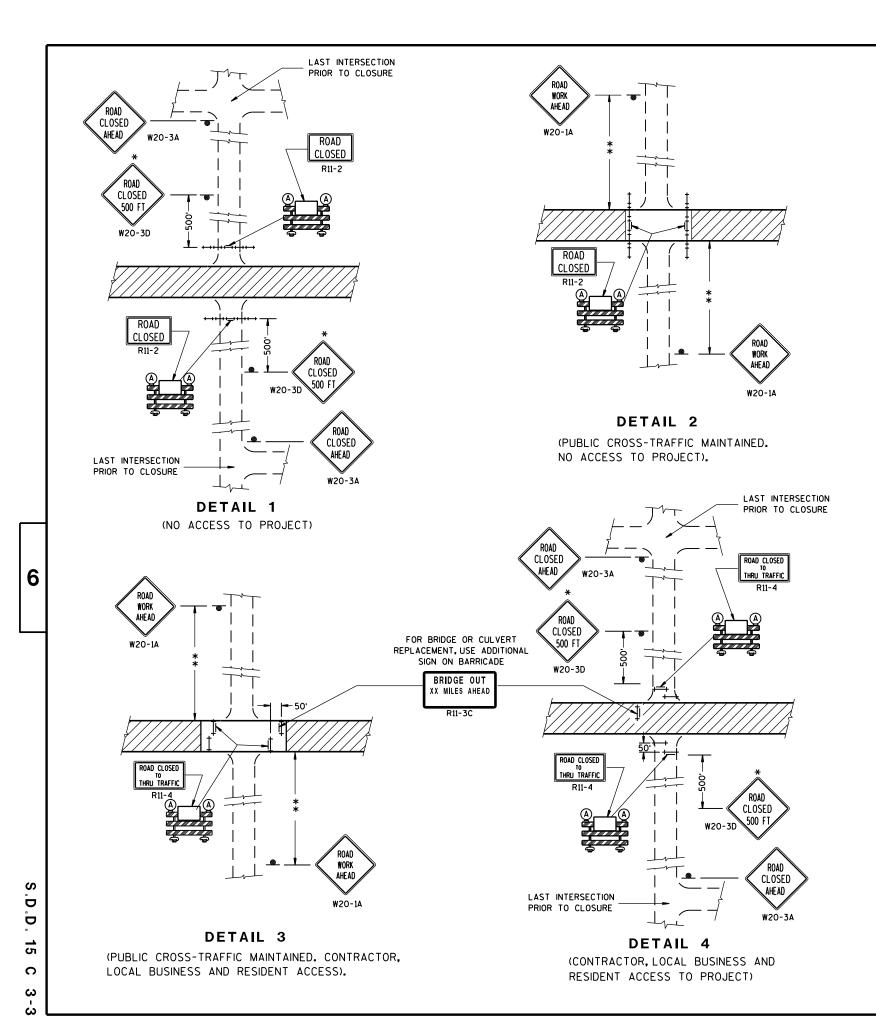
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





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.

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.

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 BARRICADE.

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

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

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH
ATTACHED SIGN

(A) TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

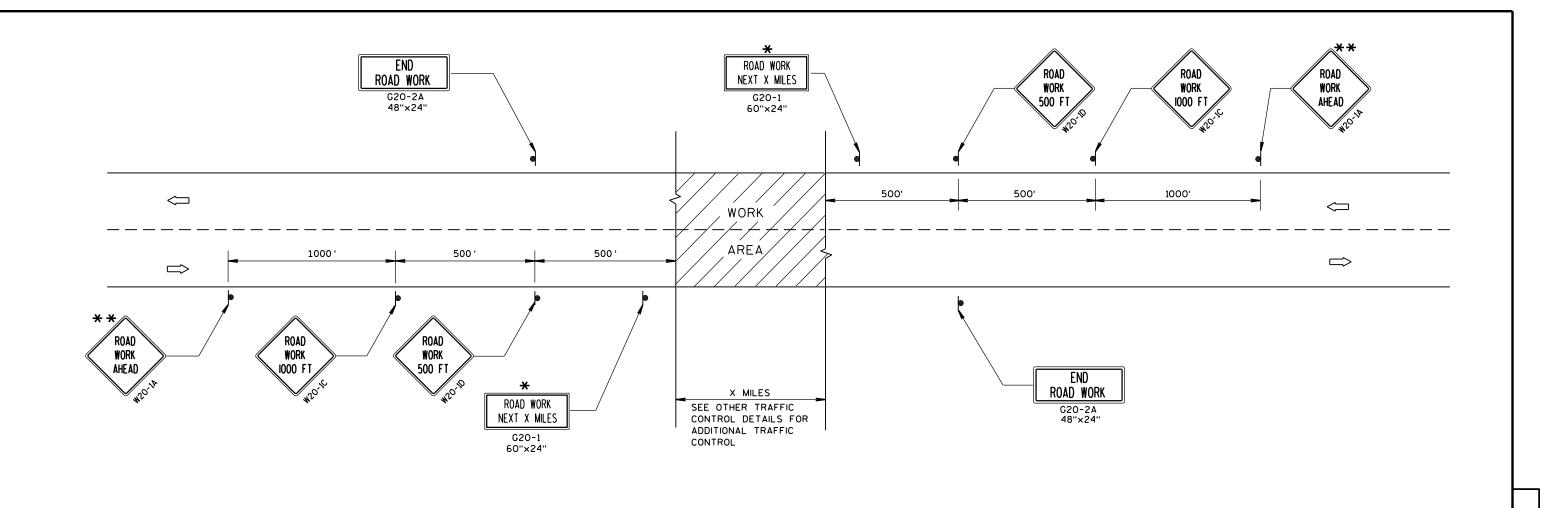
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015

DATE
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

S.D.D. 15 C 3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

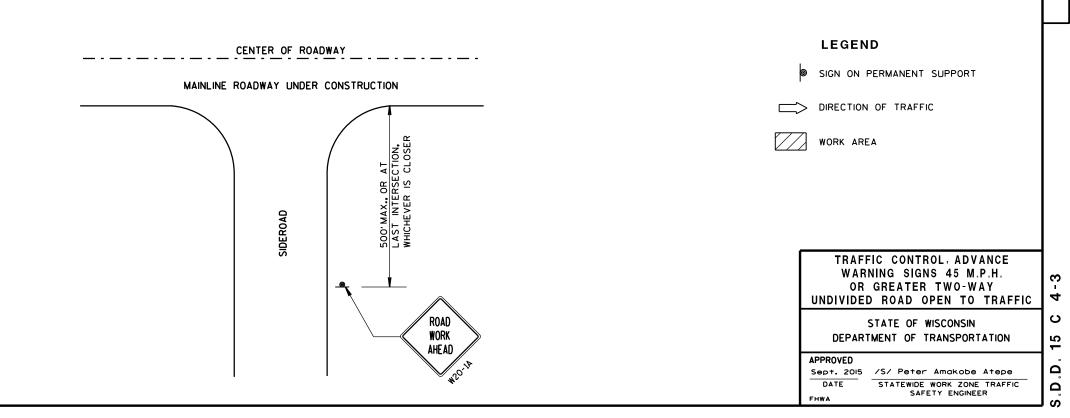
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

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



6

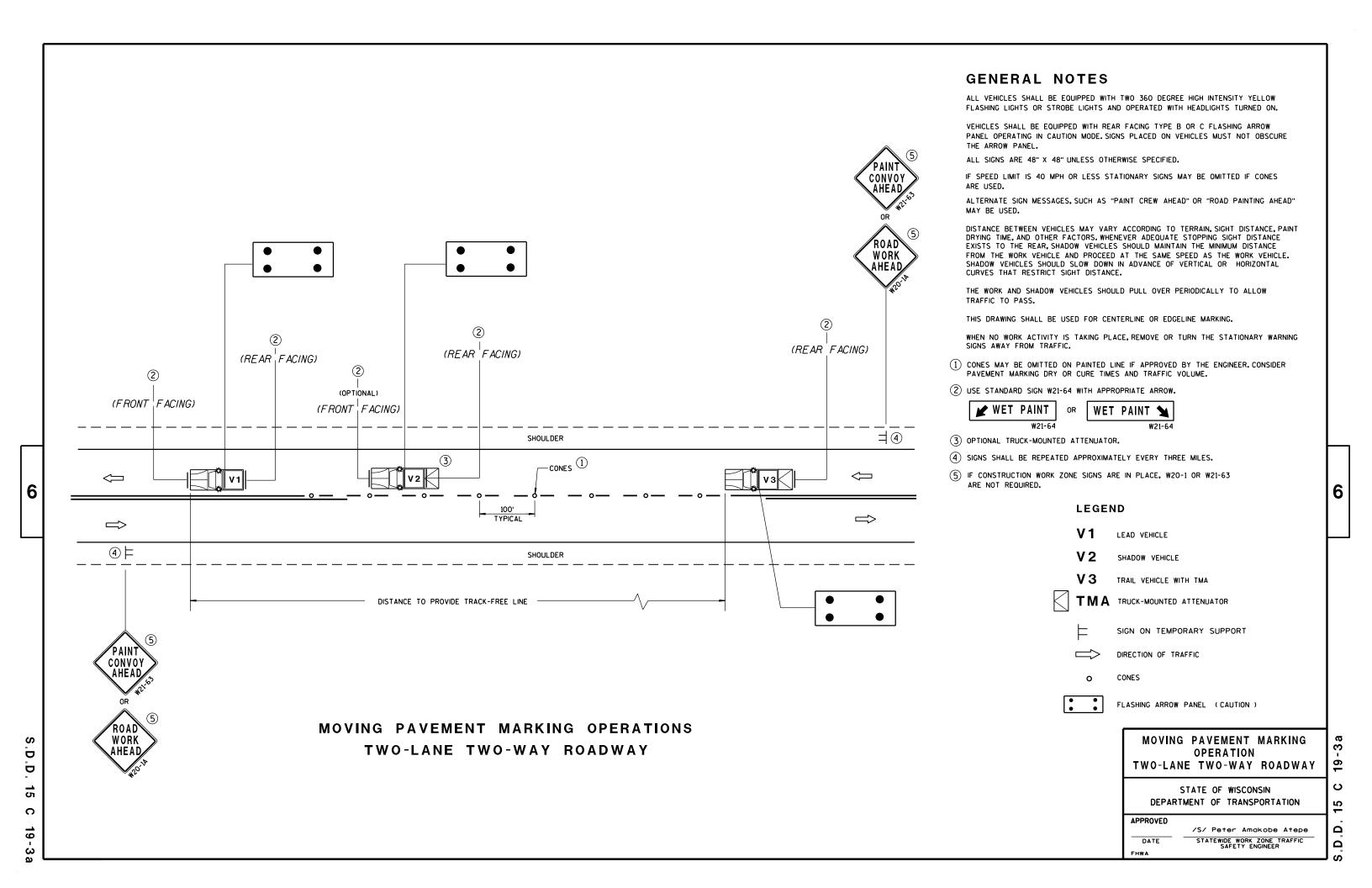
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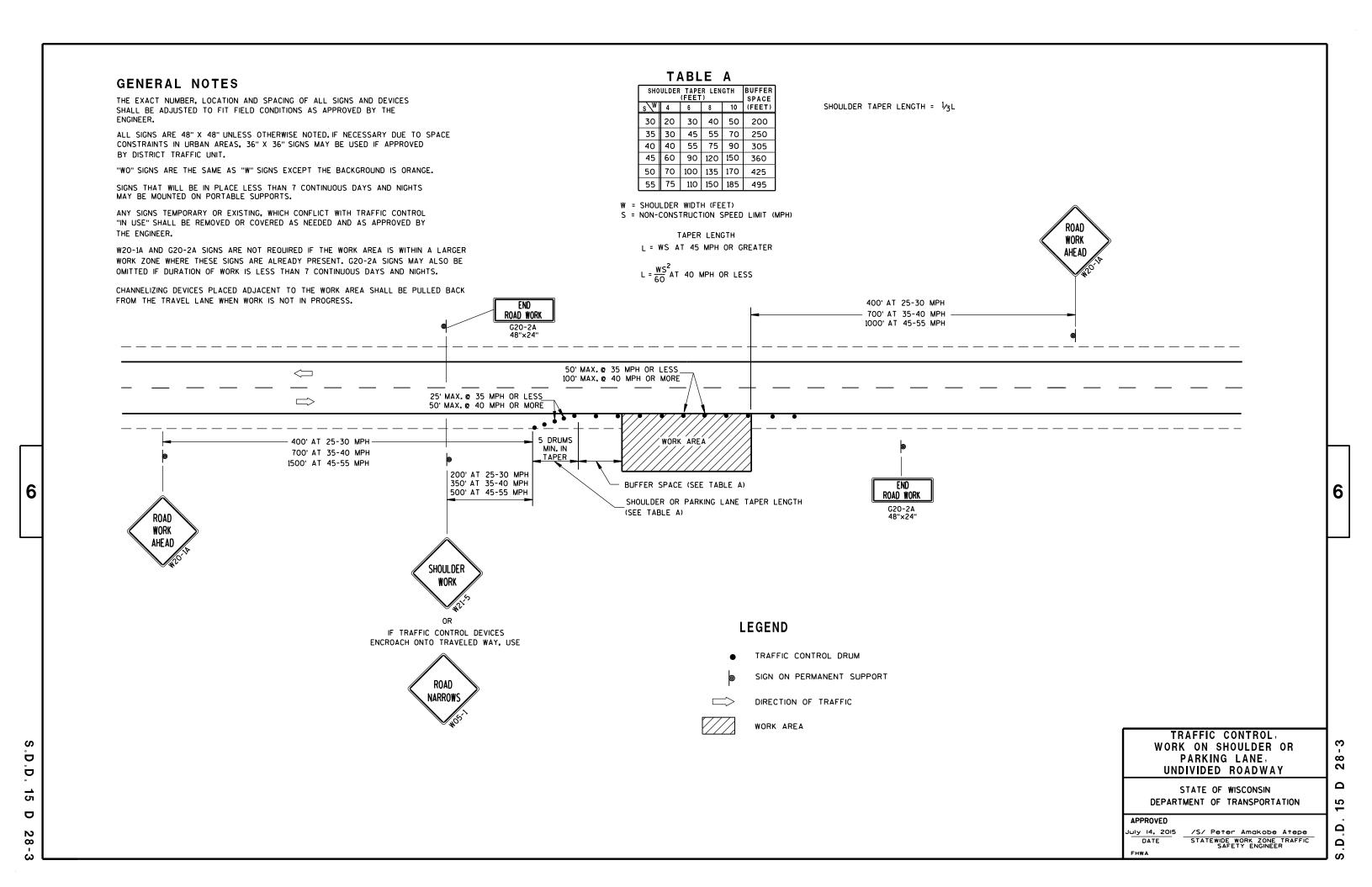
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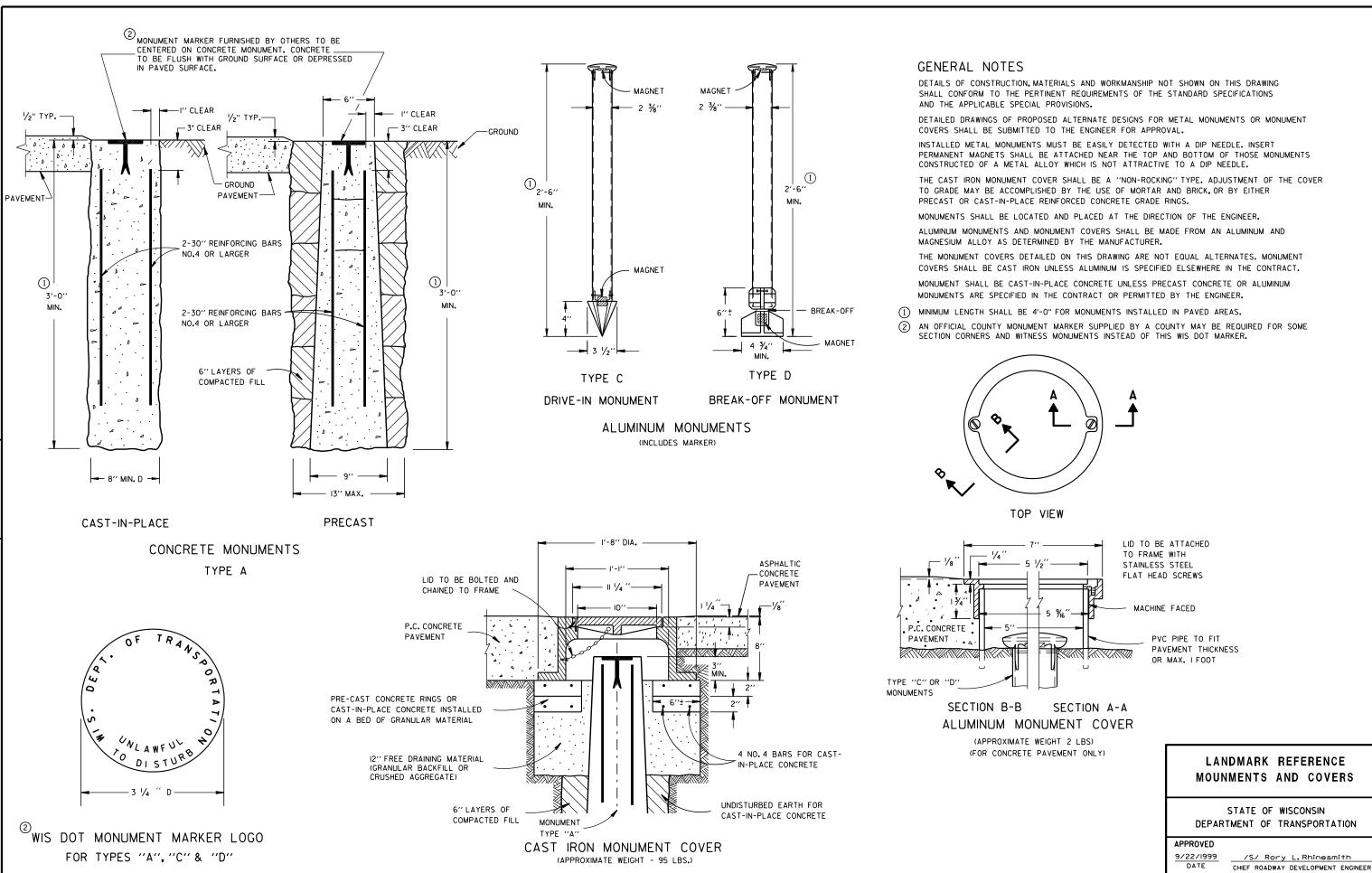












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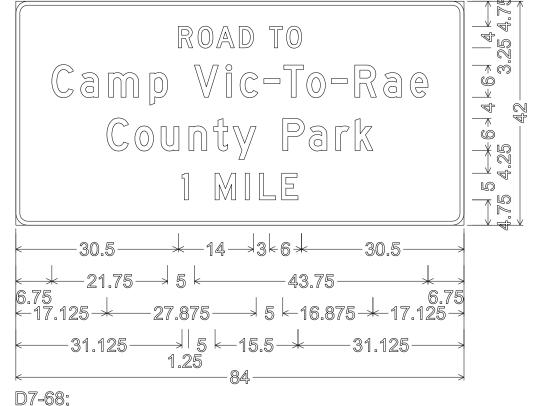
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- 1. All Signs Type II Type H Reflective
- 2. Color:

Background - GREEN except as shown Message - WHITE

3. Message Series - E except as Shown

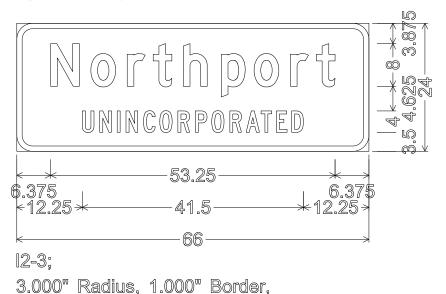


2.250" Radius, 0.750" Border, White on Brown;

"ROAD" D; "TO" D; "Camp" D; "Vic-To-Rae" D;

"County" D; "Park" D;

"1" D; "MILE" D;



New London POPULATION 6.375 5.5

12-3:

3.000" Radius, 1.000" Border

"New" D; "London" D;

"POPULATION" C; "7295" C;



D2-1;

2.250" Radius, 0.750" Border

PROJECT NO:6220-04-75

"UNINCORPORATED" C

"Northport" D;

HWY:STH 54

COUNTY: WAUPACA

PERMANENT SIGNING

SHEET NO:

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PLOT DATE: 9/25/2015

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



RURAL AREA (See Note 2)



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



5'-3"(生) D^{-1} Outside Edae of Gravel

White Edgeline Location

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where

there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

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

PLOT BY : mscj9h

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3" (±) 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

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



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 and 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 D 11 White Edgeline, Location Outside Edae Location

2'Min - 4'Max (See Note 6) 6'-3"(±) Curb Flowline. -11

48" DIAMOND WARNING SIGN

HWY:

_ 26" 5 ' - 3 "(±) White Edgeline Location Outside Edge of Gravel 48" DIAMOND WARNING SIGN

COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)								
	L	E							
* * *	Greater than 48" Less than 60"	12"							
	60" to 120"	L/5	l						

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

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)										
L	E									
168" and greater	12"									

POST EMBEDMENT DEPTH

of Gravel

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

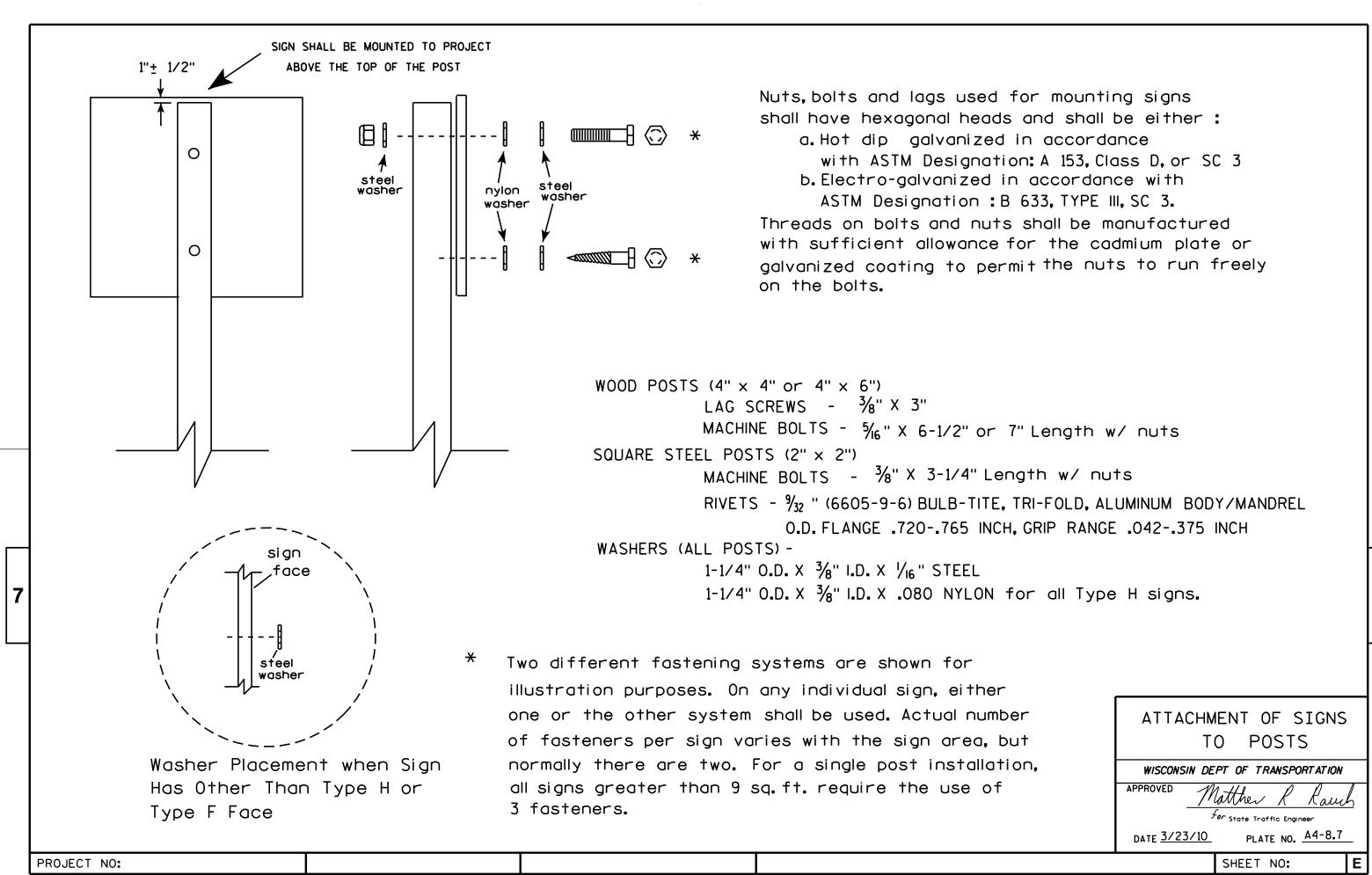
PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

PLATE NO. 44-4.14 DATE 7/23/15





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



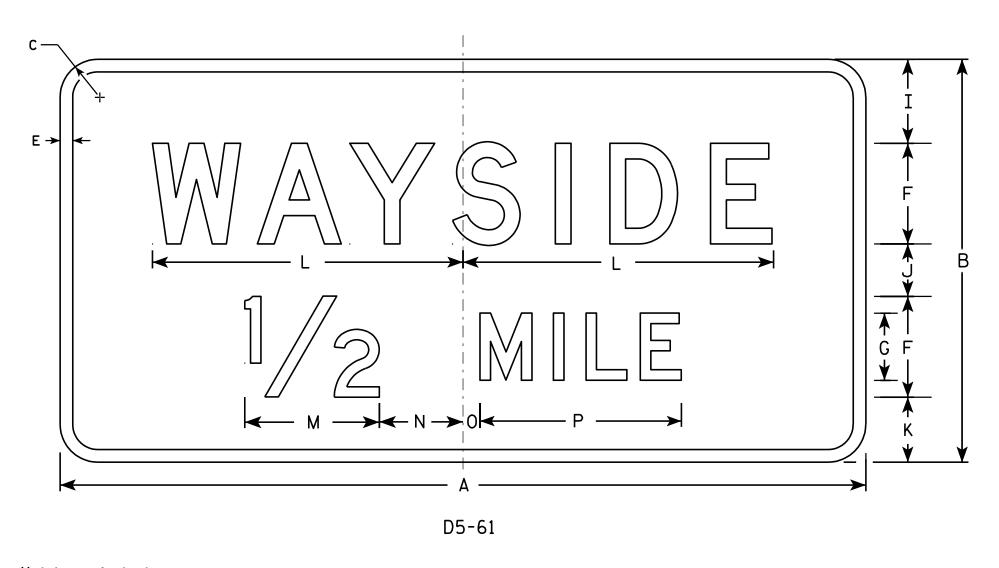


- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Originator : Don Kluever

Background - Blue Message - White

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



Metric equivalent for this sign is:

1200 mm X 600 mm 1950 mm X 1050 mm 5

- 1	SIZE	A	В	C	D	Ł	F	G	н	I	J	K	ᆫᅵ	M	N	0	Р	Q	R	S	T	U	V	W	Х	Y	4		
<i>'0</i>	1																												
	2	48	24	2 1/4		₹4	6	4	6	5	3 1/8	3 %	18 1/2	8	5	1	12											8.0	0.72
5,6,	3																												
2.3.	4	78	42	3		1	10	7	10 1/2	8 ¾	5 ¾	7	30 1/8	14	8 3/4	1 3/4	21											22.8	2.05
· NO	5																												

STANDARD SIGN D5-61

WISCONSIN DEPT OF TRANSPORTATION

DATE 1/09/02

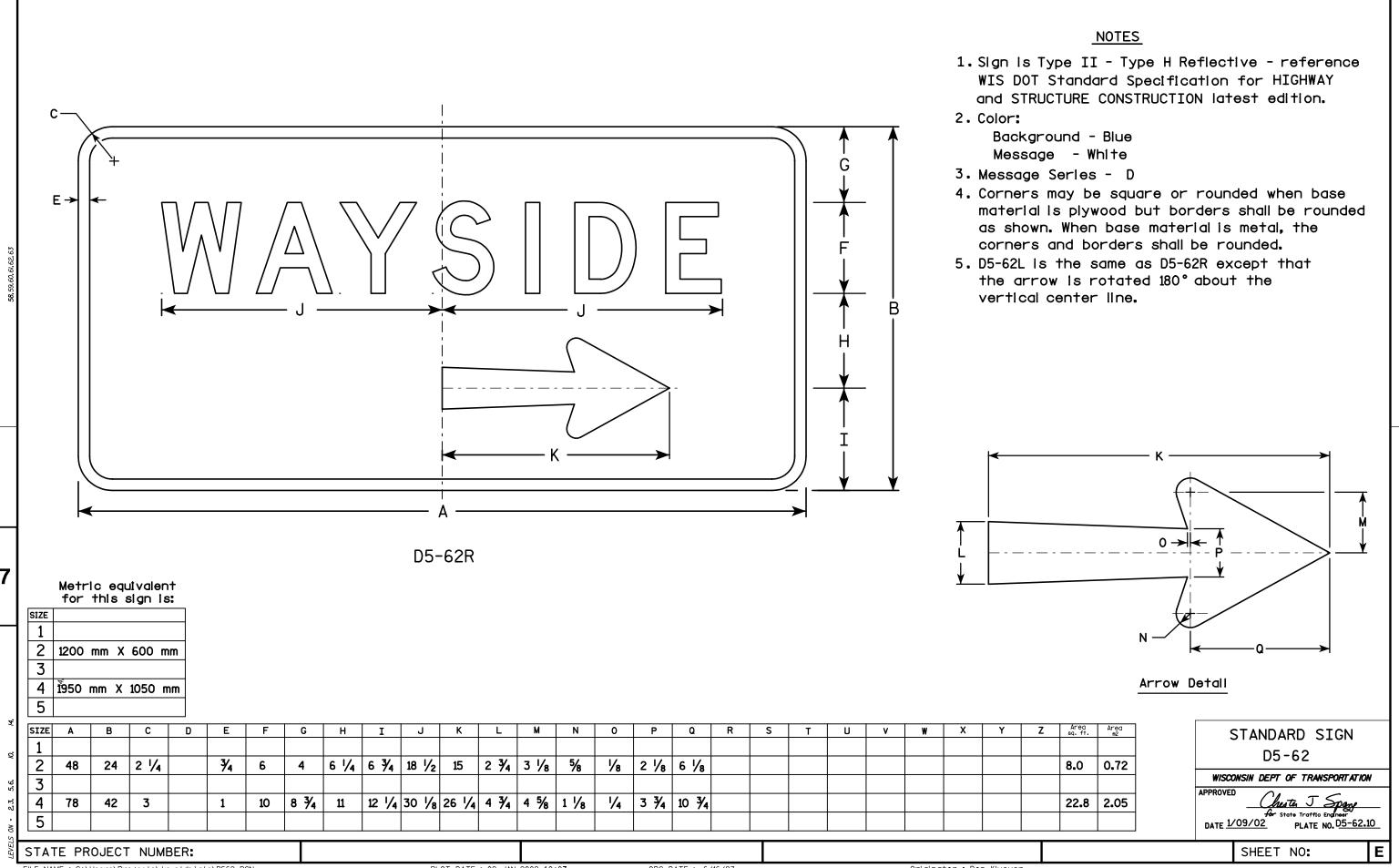
Chester J Spans

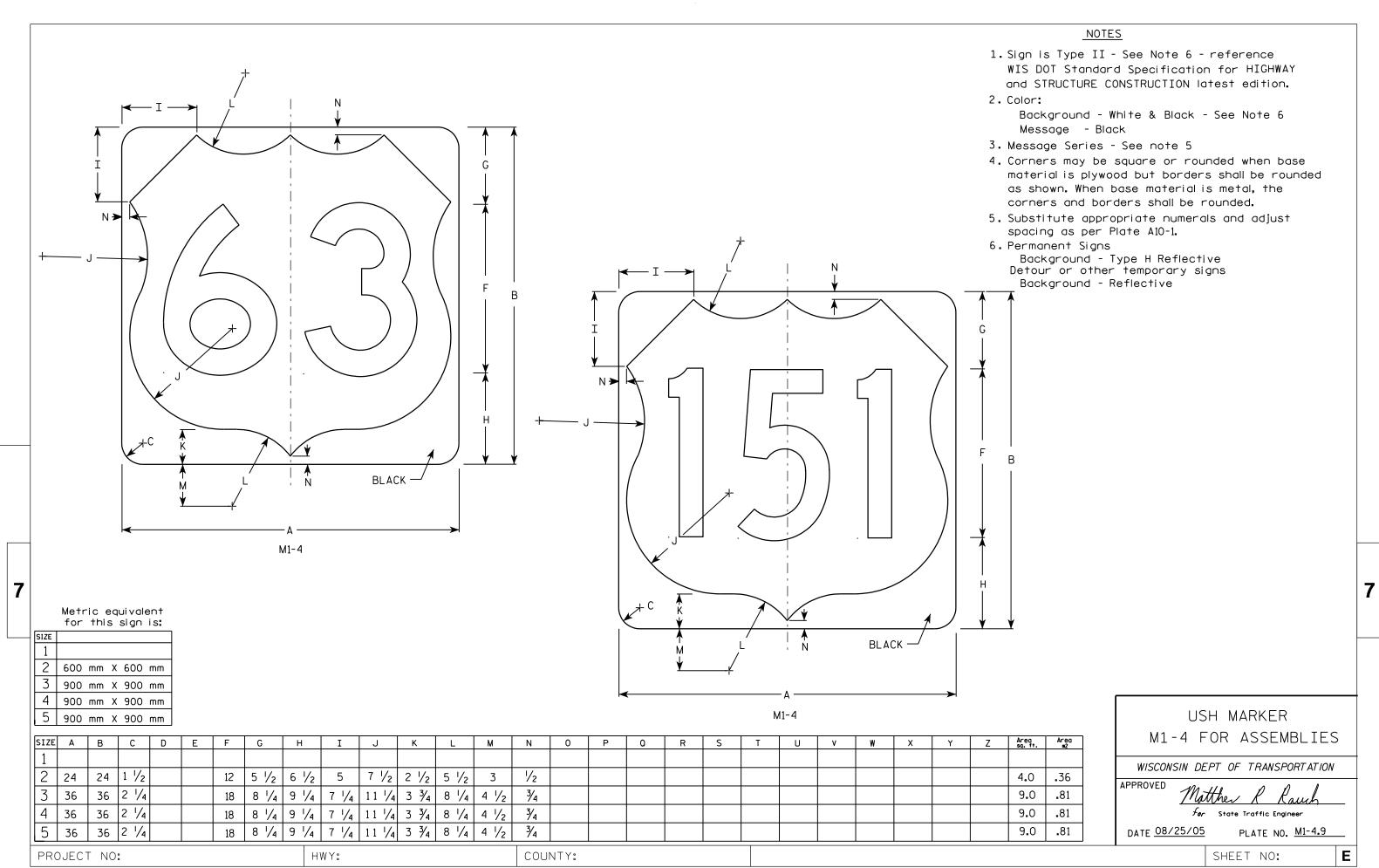
For State Traffic Engineer

PLATE NO. <u>D5-61.9</u>

SHEET NO:

STATE PROJECT NUMBER:





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

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

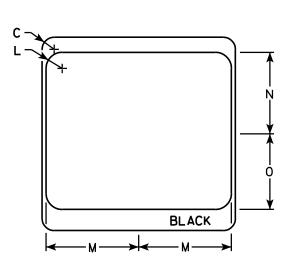
Background - White & Black - See Note 7 Message - Black

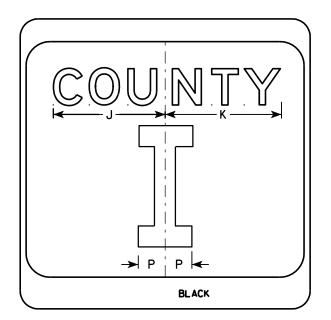
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

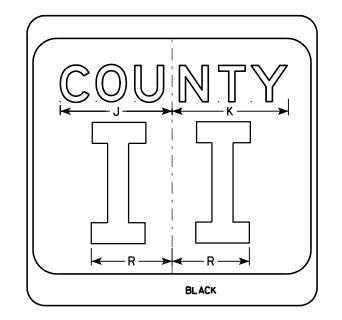
 Message Series D for 2 letters unless
 message is too big then Series C.

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

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







SIZE	Α	В	С	D	E	F	G	Н	I	J	K	٦	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
4	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 %		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
PRO	IFCT	NO:	·		·	·	Luv	VY:		·	·		COUN	TV•		·				·	·		·				

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther K Rauch

Forstate Traffic Engineer

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

SHEET NO:

BLACK

M1-5A

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

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

Background - 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

J M N BLACK N

		F A H H H
Metric equivalent for this sign is:	M1 - 6	

HWY:

PROJECT NO:

900 mm X 900 mm

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	Υ	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 ½	10 1/4	2 1/2	8 %	11 1/2	1	1 %	11 1/4	21 1/8											4.0	. 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 ½	2 1/8	16 1/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 ¾	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 ½	2 1/8	16 1/8	33											9.0	. 81

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Cheste J Spang

For 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

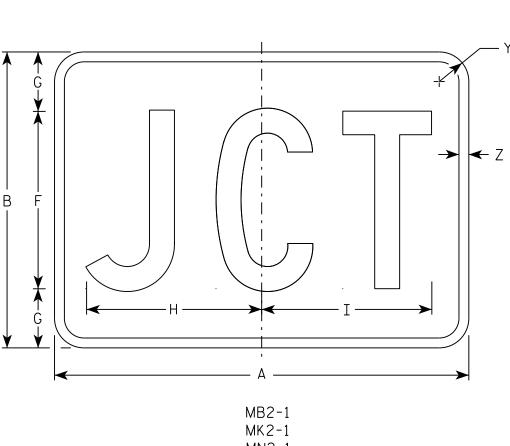
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	J	V	W	Х	Υ	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8	8 %																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch f_{or} State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

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

PROJECT NO:

M2-1

HWY:

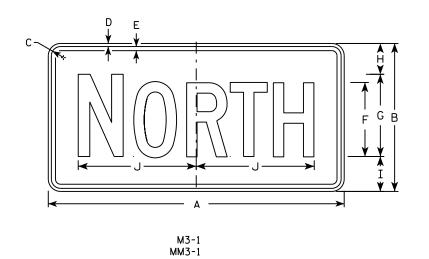
MM2-1

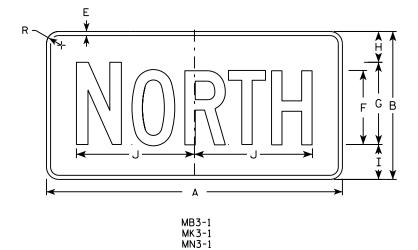
MP2-1

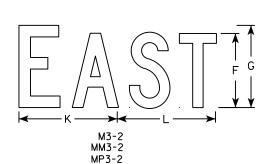
PLOT DATE . 01-DEC-2015 17:54

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

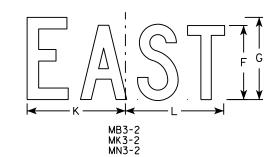
PLOT SCALE • 4 864603•1 000000

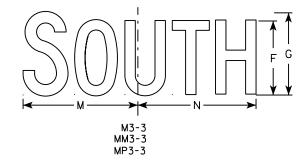


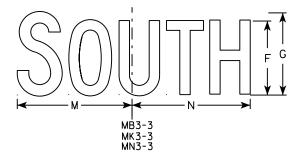


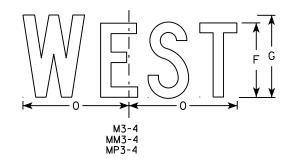


MP3-1

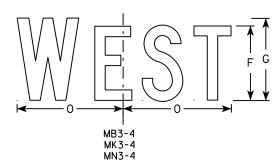








HWY:



NOTES

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

Background - See note 5 Message - See note 5

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

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

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

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

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

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

Ε

SHEET NO:

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

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

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

PLOT SCALE . 11 675051.1 000000

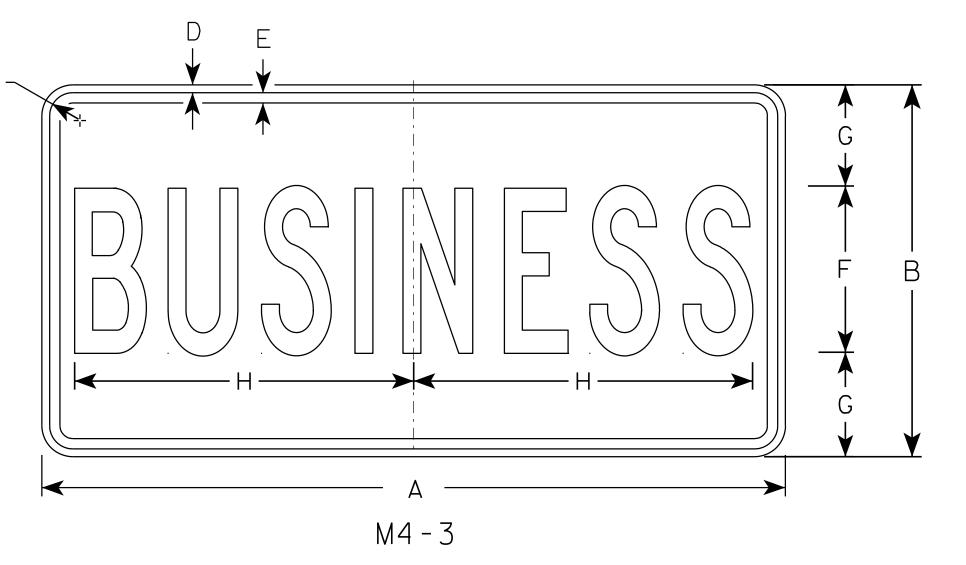


- Sign is Type II See Note 5 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White - See Note 5 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.
- 5. Permanent Signs

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



SIZE A B C D E F G H I J K L M N O P O R S T U V W X Y Z 1																											
	SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Y	Z	Areo sq. ft
	1																										
3 36 18 1 ½ 3% ½ 8 5 16 ¾ 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/	24	12	1 1/8	3/8	3/8	5	3 1/2	9 %																		2.0
4	3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																		4.5
	4																										
5	5																										

COUNTY:

STANDARD SIGN M4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

VED Matther & Lauch

For State Traffic Engineer

DATE 11/10/10

PLATE NO. M4-3.5

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.
$\parallel 1 \parallel$																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	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 DATE 3/9/11

PLATE NO. M4-8A.2

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN

HWY:

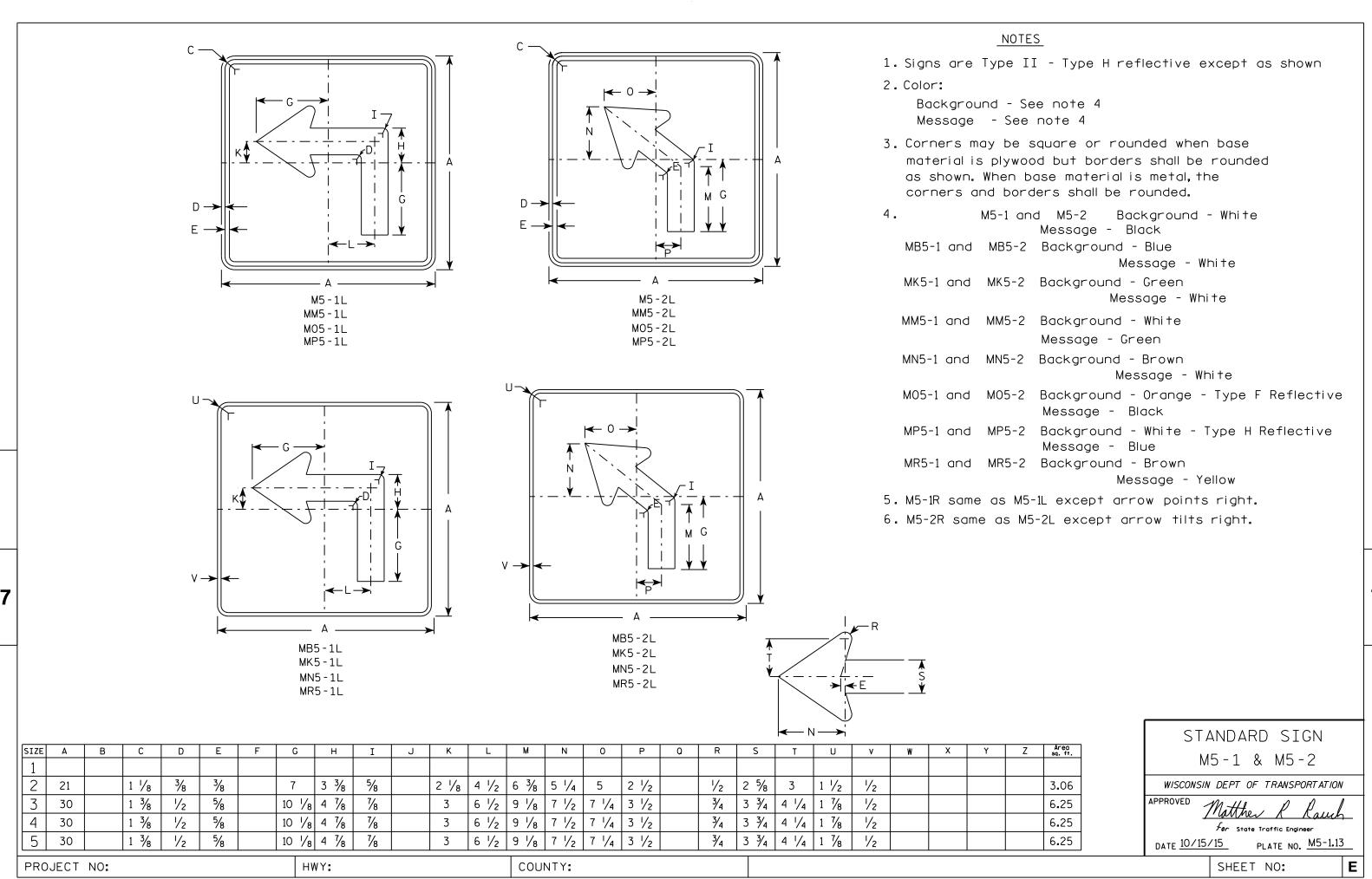
PROJECT NO:

PLOT DATE: 09-MAR-2011 10:29

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 3.972696:1.000000

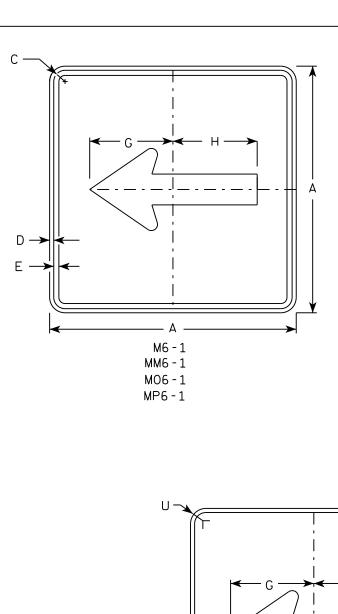


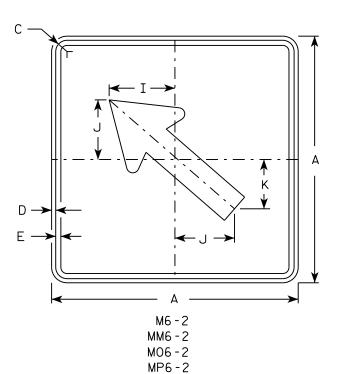
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

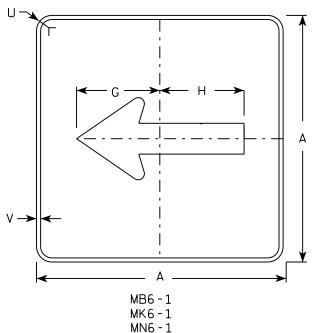
PLOT DATE . 01-DEC-2015 18:07

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

PLOT SCALE . 11 675051.1 000000

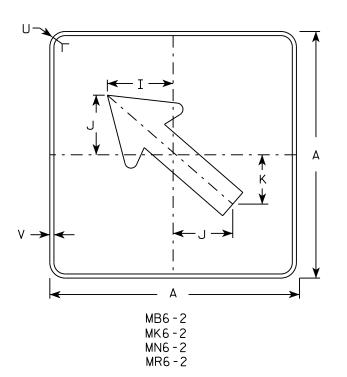






MR6-1

HWY:



NOTES

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

Background - See note 4 Message - See note 4

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

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

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

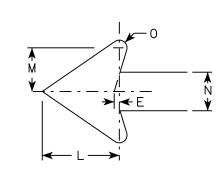
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



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

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

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

SHEET NO:

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

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:57

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

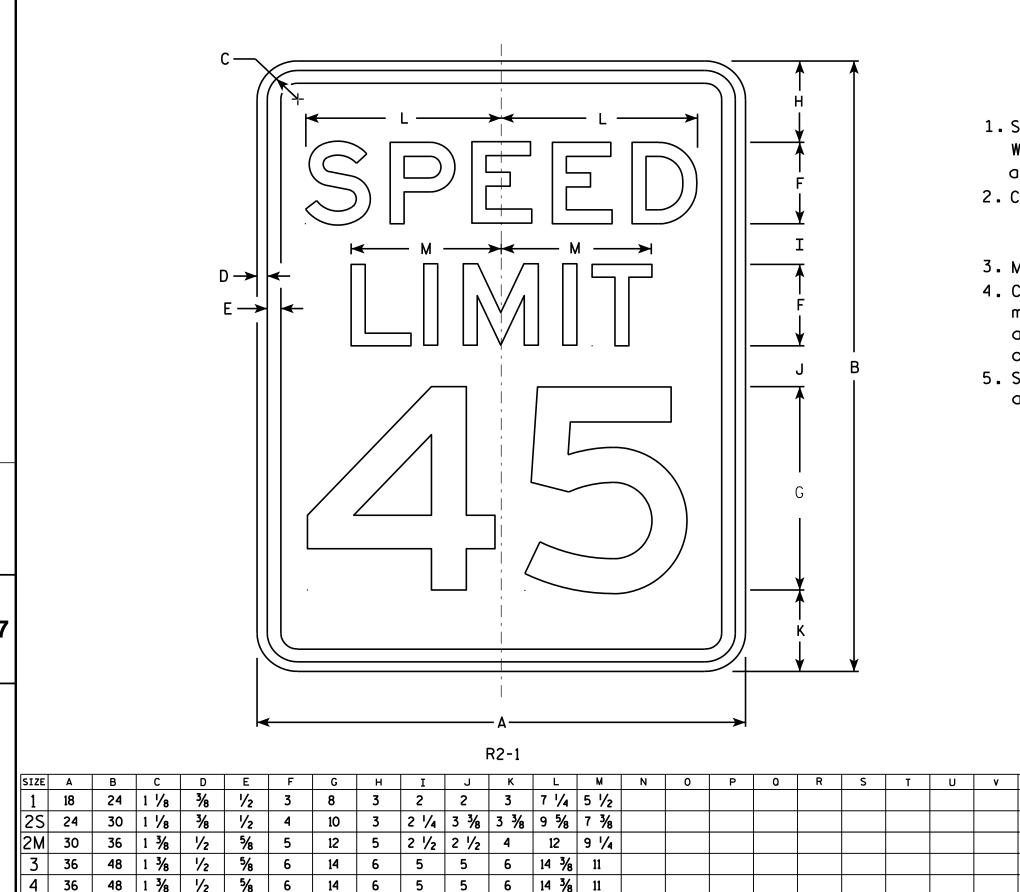
PLOT SCALE . 11 675051.1 000000

NOTES 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 2. Color: Background - Red Message - White 3. Message Series - C R1-1 SIZE A STANDARD SIGN 30 5/8 10 12 1/2 45° 12 3/4 5.18 2S 30 5/8 12 1/2 45° 12 3/4 10 5.18 R1-1 2M 36 3/4 12 15 45° 15 % 7.46 3/4 15 3/8 12 45° 36 15 7.46 WISCONSIN DEPT OF TRANSPORTATION 45° 20 1/2 48 16 20 13.25 APPROVED Matthew & Kauch 5 48 16 20 45° 20 1/2 13.25 3/8 7 3/4 45° 7 3/4 1.86 18 6 For State Traffic Engineer 12 1/4 4 45° 5 1/8 0.78 DATE <u>11/12/15</u> PLATE NO. _____R1-1.13 COUNTY: SHEET NO: PROJECT NO: HWY: PLOT SCALE • 4 378143•1 000000

FILE NAME · C·\CAFfiles\Projects\tr stdplote\R11 DGN

PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ plotuser \$\$ PINT NAMF :



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

COUNTY:

20

HWY:

6

NOTES

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

Background - White Message - Black

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

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

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

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

SHEET NO:

2 1/4

60

5

48

PROJECT NO:

PLOT NAME :



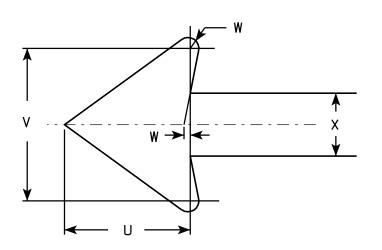
- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Red

- 3. Message Series See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1, 3 and 4 are series C, line 2 is series B.
- 6. R7-1D (double arrow)

R7-1L (left arrow)

R7-1R (right arrow)



R7-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 %	2	%	5/8	1 1/2	2 1/2	2	2	4 %	4 1/8	2 1/4	2 1/8	2 1/2	3 %	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 %	7 1/8	7	2 3/4	2 %	3 1/8	5 %	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

COUNTY:

STANDARD SIGN R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ROVED

Matthew Rauch

For State Traffic Engineer

DATE 3/31/2011

1 PLATE NO. R7-1.9
SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN

HWY:

PROJECT NO:

PLOT DATE: 31-MAR-2011 09:20

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 3.476110:1.000000

- 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 B for Size 2, Series D for Sizes 3 & 4
- 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.
- 6. For distances less than 5 miles, that figure should be expressed to the nearest $\frac{1}{4}$ mile.

R12-55

* Varies

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																											
2S	48	18	1 1/8	3/8	1/2	5	2 1/8	2 1/4	3 %	7 1/8	1 1/4	2 1/4	15 ¾	9 1/2	3	3 1/8		14 1/8									6.0
2M	48	18	1 1/8	3/8	1/2	5	2 1/8	2 1/4	3 3/8	7 1/8	1 1/4	2 1/4	15 ¾	9 1/2	3	3 1/8		14 1/8									6.0
3	90	24	2 1/4	3/4	1	6	4	4	6	15 1/4	2 1/2	3 1/2	30 %	18 3/8	6	6 1/4		28									15.0
4	120	30	2 1/4	3/4	1	8	5 1/4	3 %	8	19 %	4	3	39 ½	24 1/2	7	6 3/4		36 ¾									20.0
5	120	30	2 1/4	3/4	1	8	5 1/4	3 %	8	19 %	4	3	39 ½	24 1/2	7	6 3/4		36 ¾									20.0

COUNTY:

STANDARD SIGN R12-55

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer PLATE NO. R12-55.5

DATE 11/23/11 SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R1255.DGN

HWY:

PROJECT NO:

PLOT DATE: 23-NOV-2011 15:42

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

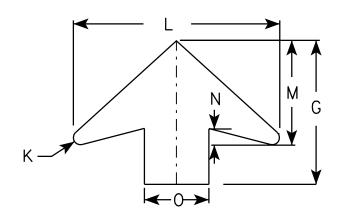
00 S3-1

NOTES

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

Background - YELLOW-GREEN Message - BLACK except as noted Circles except PEDS- RED BACKGROUND

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.



RROW	DFTAII

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 ½	1/2	16	8	1 1/4	5	1 1/2		6 %	5 %	10 %							6.25
2	36		1 %	5/8	₹4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 %	6	1 1/8		7 1/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 1/8	20 1/8	8 %	8 3/4	7 ⁄8	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	₹4	1	10	17 1/8	20 1/8	8 %	8 ¾	1 / ₈	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

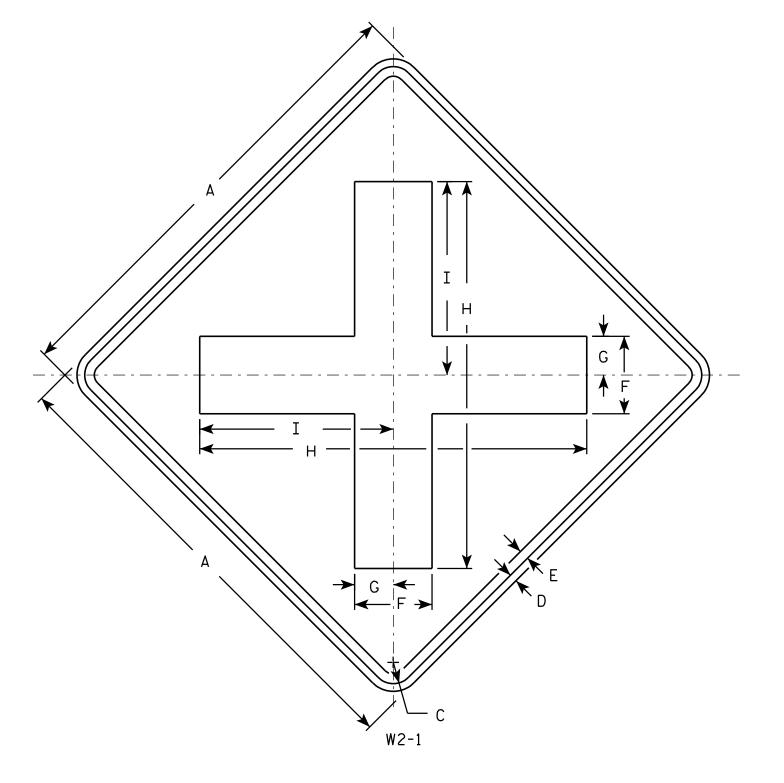
for State Traffic Engineer DATE <u>6/8/10</u>

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\S31.DGN

PROJECT NO:

PLATE NO. <u>\$3-1.6</u>



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

Background - Yellow Message - Black

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

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Areo sq. ft.
1	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
25	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

COUNTY:

STANDARD SIGN W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch
For State Traffic Engineer

DATE 5/29/12

PLATE NO. W2-1.9

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W21.DGN

PROJECT NO:

HWY:

PLOT DATE: 29-MAY-2012 10:10

PLOT NAM

PLOT BY: mscsja

PLOT SCALE: 6.202372:1.000000

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

Background - Yellow Message - Black

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

W2-2

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	P	0	R	S	T	C	٧	W	X	Y	Z	Areo sq. 11.
1	24		1 1/8	3∕8	1/2	20	2	4	10	8																	4.0
25	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

COUNTY:

STANDARD SIGN W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch For State Traffic Engineer

SHEET NO:

DATE 5/29/12

PLATE NO. <u>W2-2.6</u>

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W22.DGN

PROJECT NO:

HWY:

PLOT DATE: 29-MAY-2012 10:18

PLOT NAME :

PLOT BY: mscsja

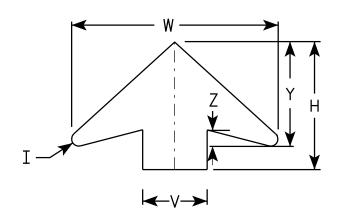
PLOT SCALE: 6.202372:1.000000

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

 Background YELLOW*

 Message BLACK
- 3. 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 3/4	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 3/4	17 3/8	1 /8	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3/8	12	8	25 %	3∕8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7 /8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

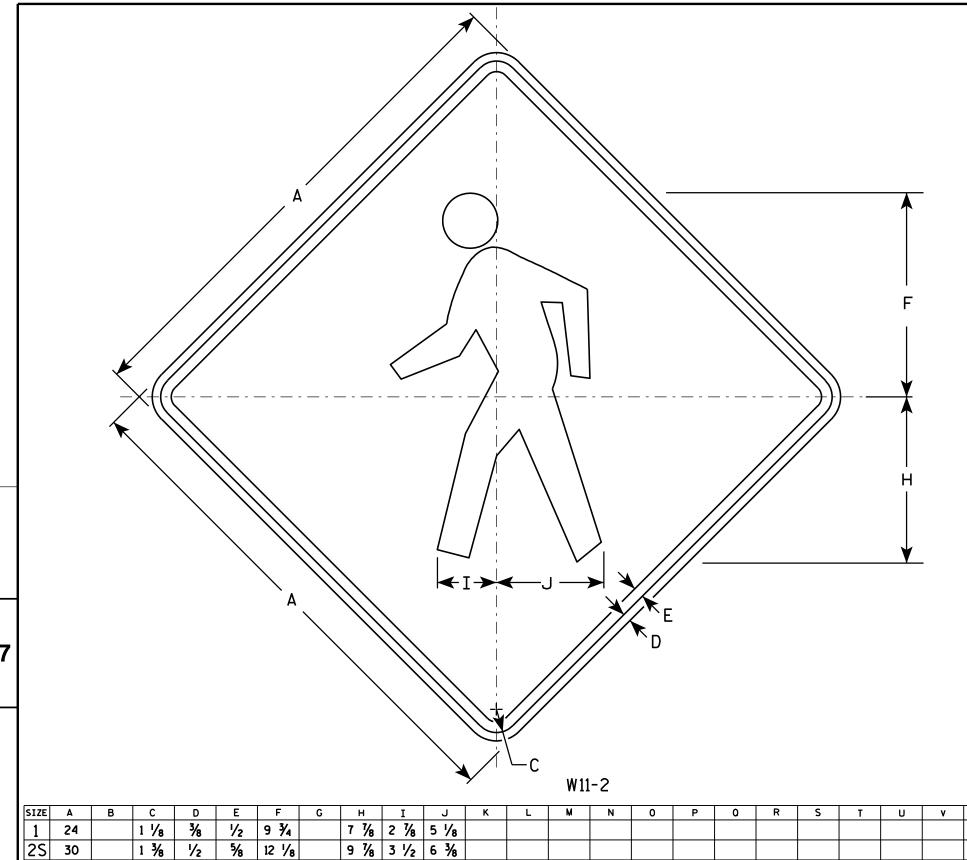
APPROVED

Matther R Rauch.

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

SHEET NO:

PROJECT NO:



<u>NOTES</u>

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

Background - 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.

STANDARD SIGN W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>6/7/10</u>

PLATE NO. W11-2.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W112.DGN

1 1/8

1 %

2 1/4 3/4

2M

3

4 48

5

PROJECT NO:

5/8

5/8

3/4

14 1/2

3/4 14 1/2

1 19 3/8

11 1/8 4 1/4 7 5/8

11 1/8 4 1/4 7 5/8

15 3/4 5 5/8 10 1/4

HWY:

PLOT DATE: 07-JUN-2010 13:29

COUNTY:

PLOT NAME :

PLOT BY: ditjph

4.0

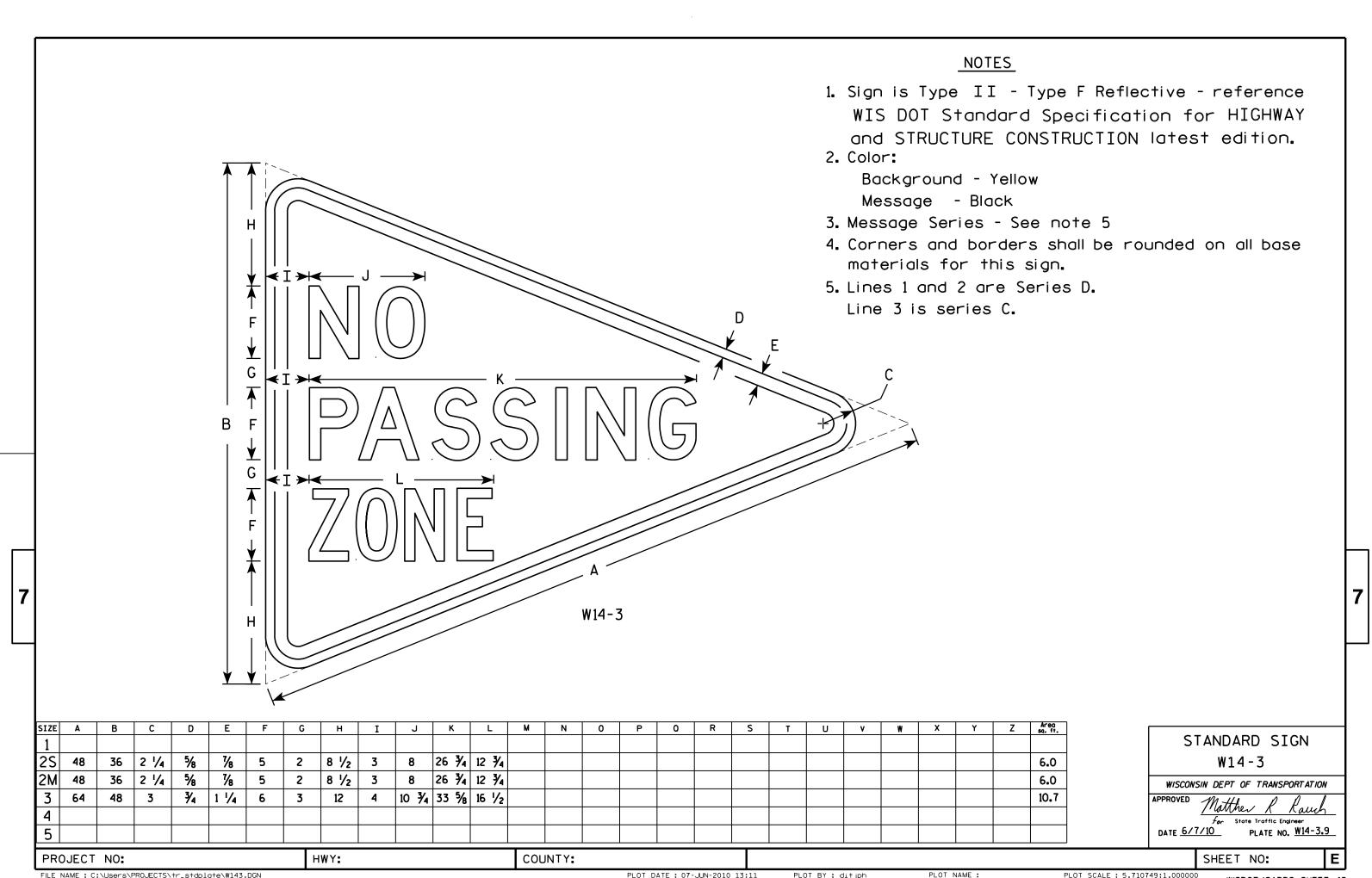
6.25

9.0

9.0

16.0

PLOT SCALE: 5.700818:1.000000

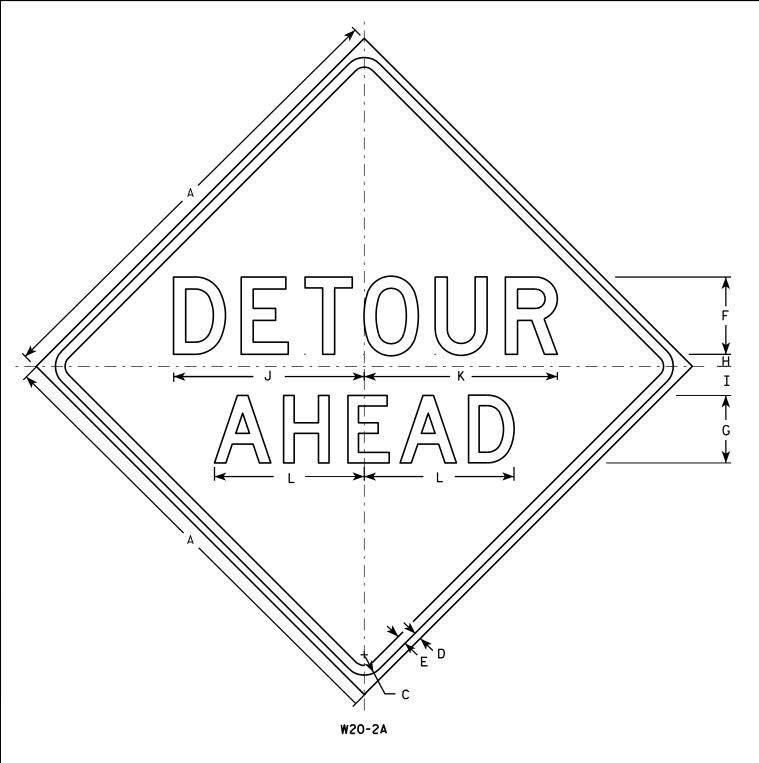


FILE NAME : C:\Users\PROJECTS\tr_stdplate\W143.DGN

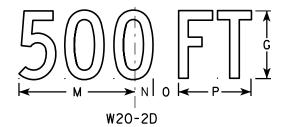
PLOT DATE: 07-JUN-2010 13:11

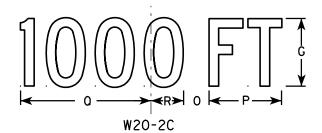
PLOT BY: ditjph

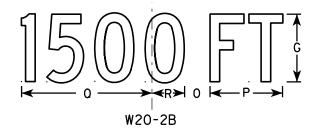
PLOT SCALE: 5.710749:1.000000

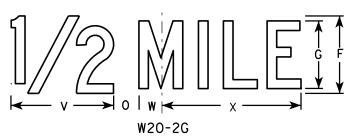


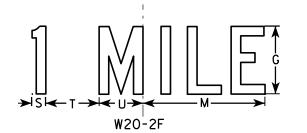
HWY:











PLOT BY: mscj9h

NOTES

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

Background - Orange Message - Black

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. 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 5/8	9	1 3/8	1 1/8	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 %	7 1/2	13 1/2	3 %	1 1/2	6	4 %	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 %	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 3/4	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	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

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

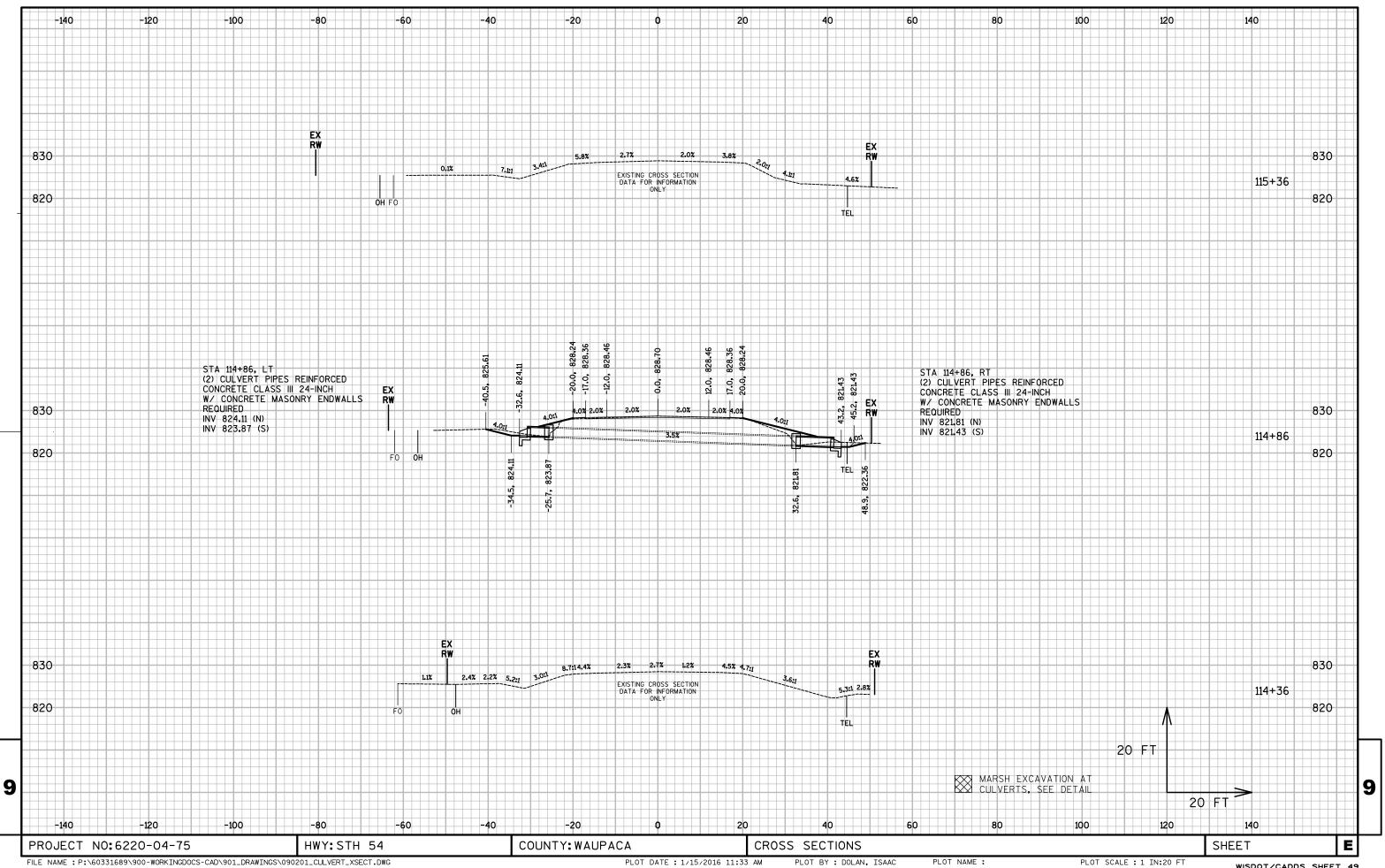
PROJECT NO:

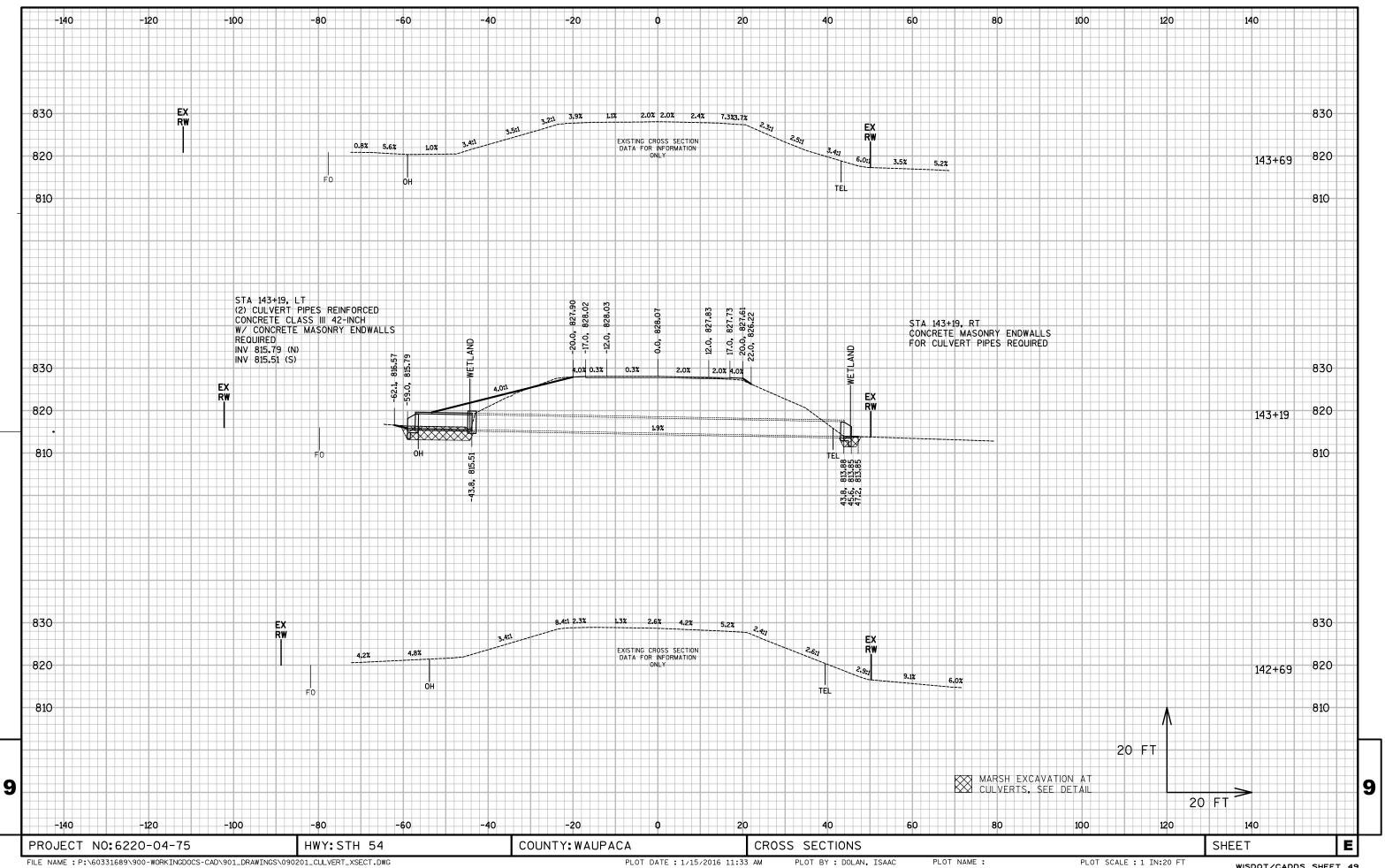
	1		AREA	(SF)					Increm	ental Vol (CY) (Unadj	iusted)				Cumulati	ve Vol (CY)						T
			AKLA	(31)					Incren	ientai voi (C1) (Onauj	usteu				Cumulati	Expanded	Expanded	Expanded	Expanded	Reduced	Reduced	Mass
	Real Station		Cut	<u> </u>	Fill	Marsh	Rock	EBS	Cut	Salvaged/Unusable	Fill	Marsh	Rock	EBS	Cut	Fill	Marsh Backfill	Rock	EBS Backfill	Marsh in Fill		
STATION		Distance		Pavement Material		Exc	Exc		1	Pavement Material		Exc	Exc		1.00	1.25	1.50	1.10	1.30	0.60	0.80	l
114+36	<u> </u>		0.0	0.0	0.0	0.0	0.0	0.0	Note 1	. Note 2	Note 3	0	0		Note 1	0	Note 4 0	0	Note 5 0	Note 6	Note 7 ∩	Note 8
114+86	11486	50	0.0	0.0	78.7	0.0	0.0	0.0	1 0	0	0 73	0	0	0 0		91	0	0	0	0	0	-91
115+36	11536	50 50	0.0	0.0	0.0	0.0	0.0	0.0	l ŏ	Õ	73 73	0	0	0		182	Ö	Ö	Ö	ő	ő	-182
						Subtotal			0	0	146	0	0	0								
1.10 - 60	1.10.50					0.0	0.0			•		•						•	•			
142+69 143+19	14269 14319	50	0.0 3.4	0.0 0.0	0.0 83.3	0.0 0.0	0.0 0.0	0.0 0.0	3	0	0 77	0	0	0 0	0 3	0 96	0 0	0 0	0 0	0 0	0 0	-93
143+69	14369	50	0.0	0.0	0.0	0.0	0.0	0.0	3	0	77	0	0	0	6	193	0	0	0	0	0	-187
113103	11303		0.0	0.0		Subtotal		0.0	6	0	154	o	o	o		133				<u> </u>		107
240.40	2425									•								•	•		•	
219+69 220+19	21969 22019	Ε0	0.0 0.4	0.0 0.0	0.0 46.3	0.0 0.0	0.0 0.0	0.0 0.0		0	0 43	0	0	0		0 54	0 0	0 0	0 0	0 0	0 0	0
220+19	22019	50 50	0.4	0.0	0.0	0.0	0.0	0.0		0	43 43	0	0	0 0	1 1	107	0	0	0	0	0	-53 -106
220103	22005		0.0	0.0		Subtotal	0.0	0.0	1	0	86	0	0	0	 	107	0		<u> </u>	<u> </u>	<u> </u>	100
222 - 46	22046					0.0				•								•	•		•	
228+46	22846 22896	FO	0.0 0.9	0.0	0.0 60.3	0.0 0.0	0.0	0.0	0	0	0 56	0 0	0 0	0	0	0 70	0 0	0 0	0 0	0 0	0 0	0
228+96 229+46	22946	50 50	0.9	0.0 0.0	0.0	0.0	0.0 0.0	0.0 0.0	1 1	0	56	0	0	0 0	1 2	140	0	0	0	0	0	-69 -138
223140	225-10		0.0	0.0		Subtotal	0.0	0.0	2	0	112	0	0	o		140	<u> </u>		<u> </u>	<u> </u>		130
	0==04									•								•	•			
277+26 278+00	27726 27800	74	0.0	0.0	0.8 81.2	0.0 0.0	0.0 0.0	0.0		0	0 112	0	0	0 0	0	0 140	0	0	0	0	0 0	0
278+76	27876	74 76	0.1 0.0	0.0 0.0	115.4	0.0	0.0	0.0 0.0	1 0	0	277	0	0	0		486	0	0	0	0	0	-140 -486
279+01	27901	25	0.0	0.0	85.0	0.0	0.0	0.0	l ŏ	Ŏ	93	0	0	0		602	Ö	Ö	Ö	Ö	ő	-602
279+26	27926	25	0.1	0.0	11.5	0.0	0.0	0.0	Ō	0	45	0	0	0	0	658	0	0	0	0	0	-658
279+66	27966	40	0.0	0.0	10.6	0.0	0.0	0.0	0	0	16	0	0	0	0	678	0	0	0	0	0	-678
						Subtotal			0	0	543	0	0	0								
280+60	28060		0.1	0.0	13.2	0.0	0.0	0.0	l 0	0	0	0	0	0	0	0	0	0	0	0	0	0
281+00	28100	40	2.5	0.0	0.0	0.0	0.0	0.0	2	0	10	0	0	0	2	12	0	0	0	0	0	-10
281+25	28125	25	1.4	0.0	23.6	0.0	0.0	0.0	2	0	11	0	0	0	4	26	0	0	0	0	0	-22
281+50	28150	25	1.0	0.0	40.7	0.0	0.0	0.0		0	30	0	0	0	5	63	0	0	0	0	0 0	-58
282+00 283+00	28200 28300	50 100	5.8 0.7	0.0 0.0	24.5 0.0	0.0 0.0	0.0 0.0	0.0 0.0	6 12	0	60 45	0	0	0 0	11 23	139 195	0 0	0	0	0 0	0	-128 -172
203100	20300	100	0.7	0.0		Subtotal	0.0	0.0	23	0	156	0	0	o		155	<u> </u>		<u> </u>	<u> </u>		1/2
200 - 20	20020			0.0	0.0	0.0	0.0	0.0		•		•					•	•	•	0	•	
308+38 308+88	30838 30888	50	0.0 0.0	0.0 0.0	0.0 122.4	0.0 0.0	0.0 0.0	0.0 0.0	0	0	0 113	0 0	0 0	0 0	0 0	0 142	0 0	0 0	0 0	0 0	0 0	0 -142
309+38	30938	50 50	0.0	0.0	0.0	0.0	0.0	0.0	1 0	0	113	0	0	0	0	283	0	0	0	0	0	-142
505 / 50	3333		0.0	0.0		Subtotal	0.0	0.0	0	0	227	0	0	0			<u> </u>					
324+77	32477		0.0	0.0	0.0	0.0	0.0	0.0		0	0	0	0	0		0	0	0	0	0	0	
324+77 325+27	32527	50	0.0	0.0 0.0	0.0 155.3	0.0 0.0	0.0 0.0	0.0 0.0	0	0	144	0	0 0	0 0	0	180	0	0	0	0	0	-180
325+77	32577	50	0.0		0.0		0.0	0.0	ő	ŏ	144	Ö	Ő	Ö	ő	360	Ö	Ö	Ö	Ö	Ö	-360
						Subtotal			0	0	288	0	0	0								
371+32	37132		0.0	0.0	0.0	0.0	0.0	0.0		Λ	0	0	0	0	0	0	0	0	0	0	0	0
371+82	37182	50	0.0	0.0	134.4	0.0	0.0	0.0	l ŏ	0	124	0	0	0	0	155	0	0	0	0	0	-155
372+32	37232	50	0.0	0.0	0.0		0.0	0.0	ő	0	124	Ö	Ö	Ö	Ö	311	Ö	0	Ö	Ö	Ö	-311
						Subtotal			0	0	249	0	0	0								

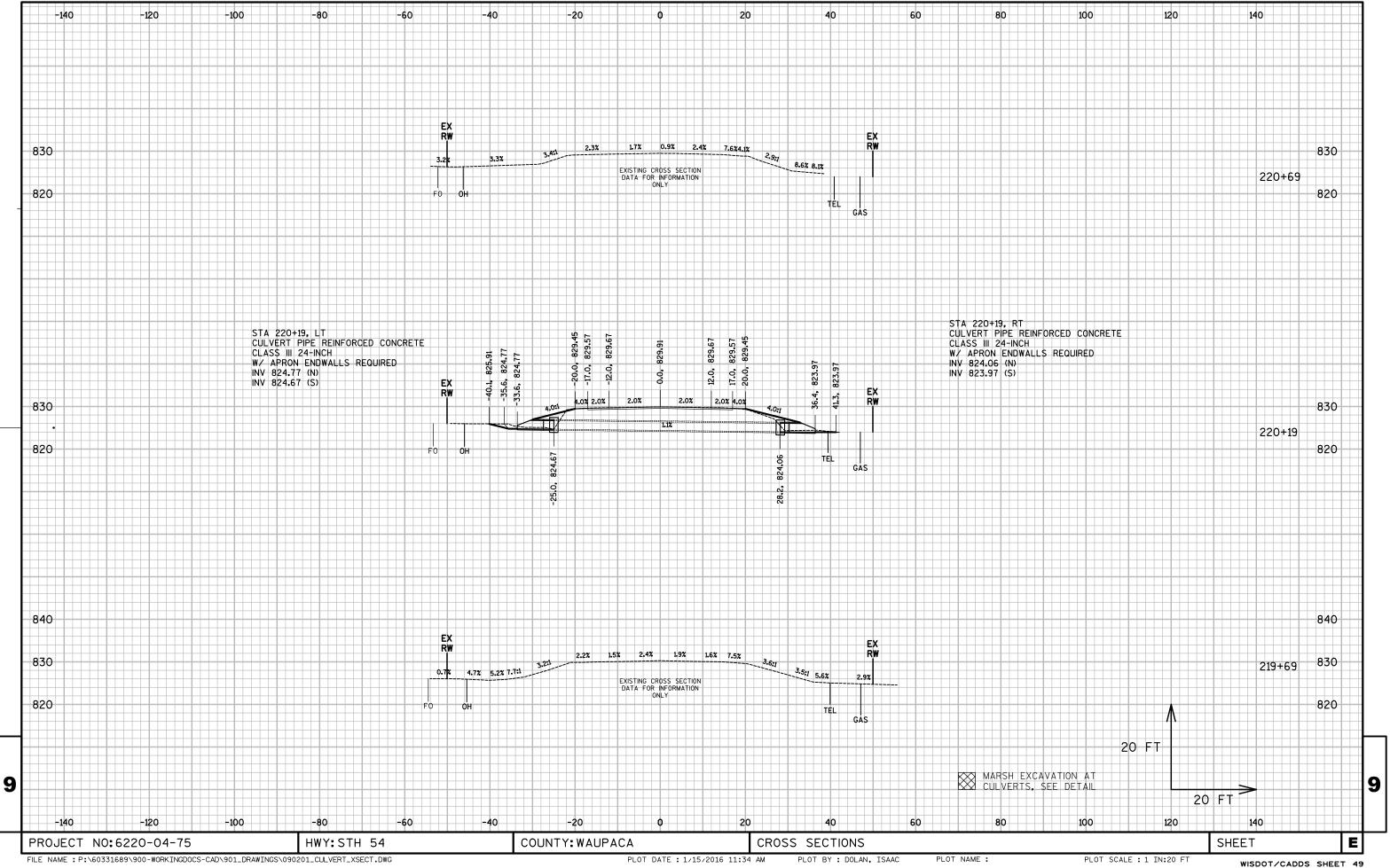
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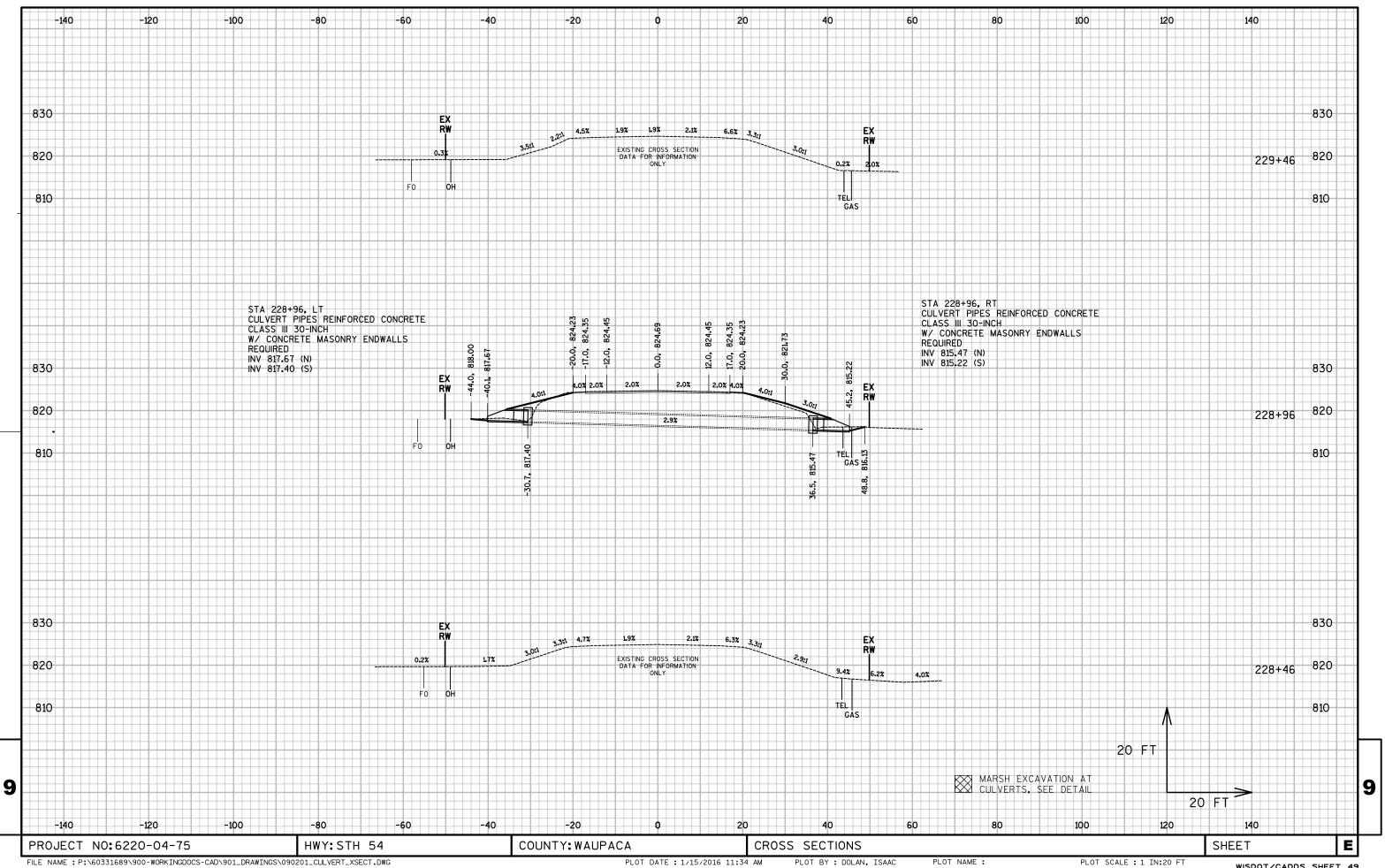
PROJECT NO:6220-04-75 HWY:STH 54 COUNTY:WAUPACA EARTHWORK SHEET E

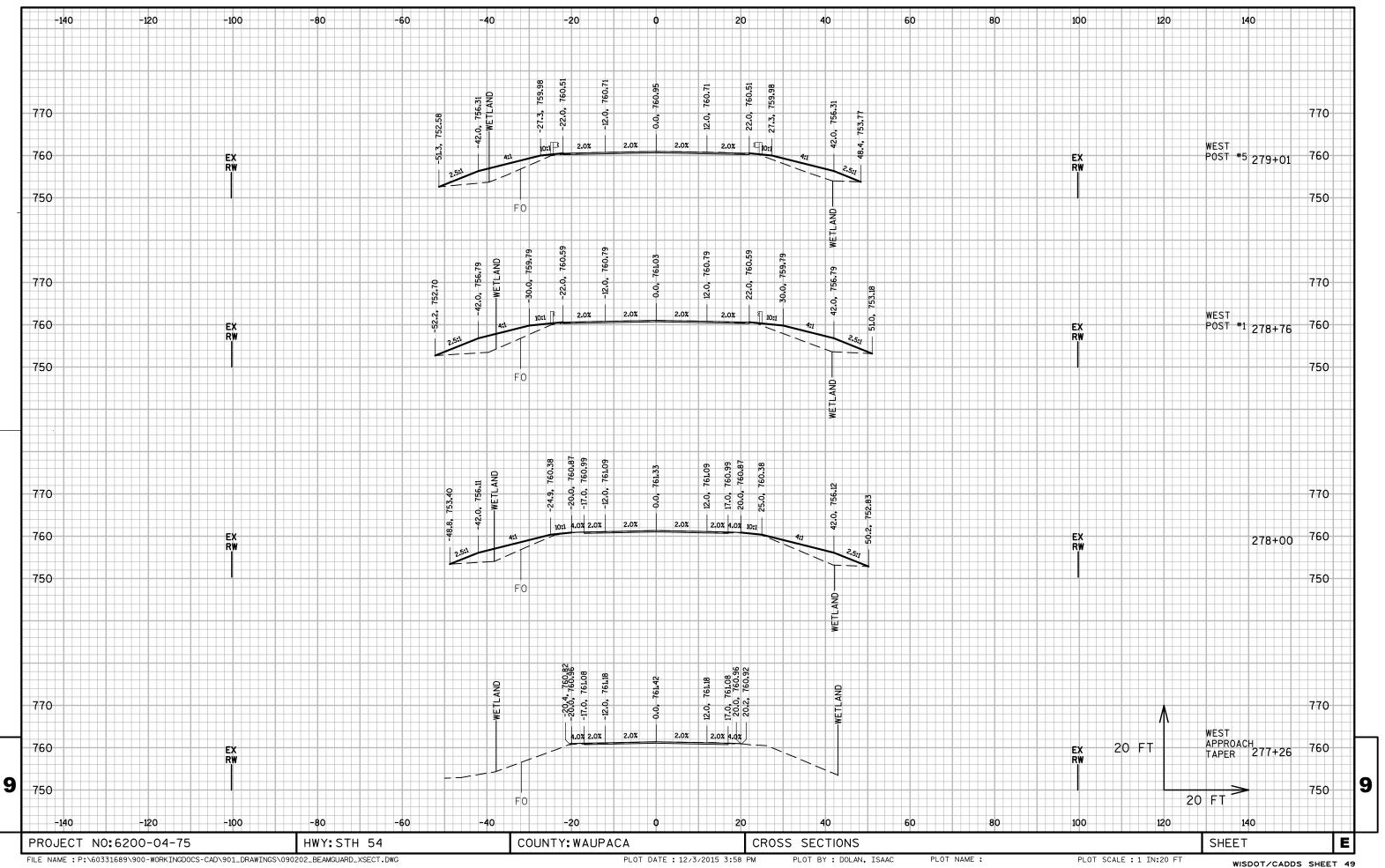
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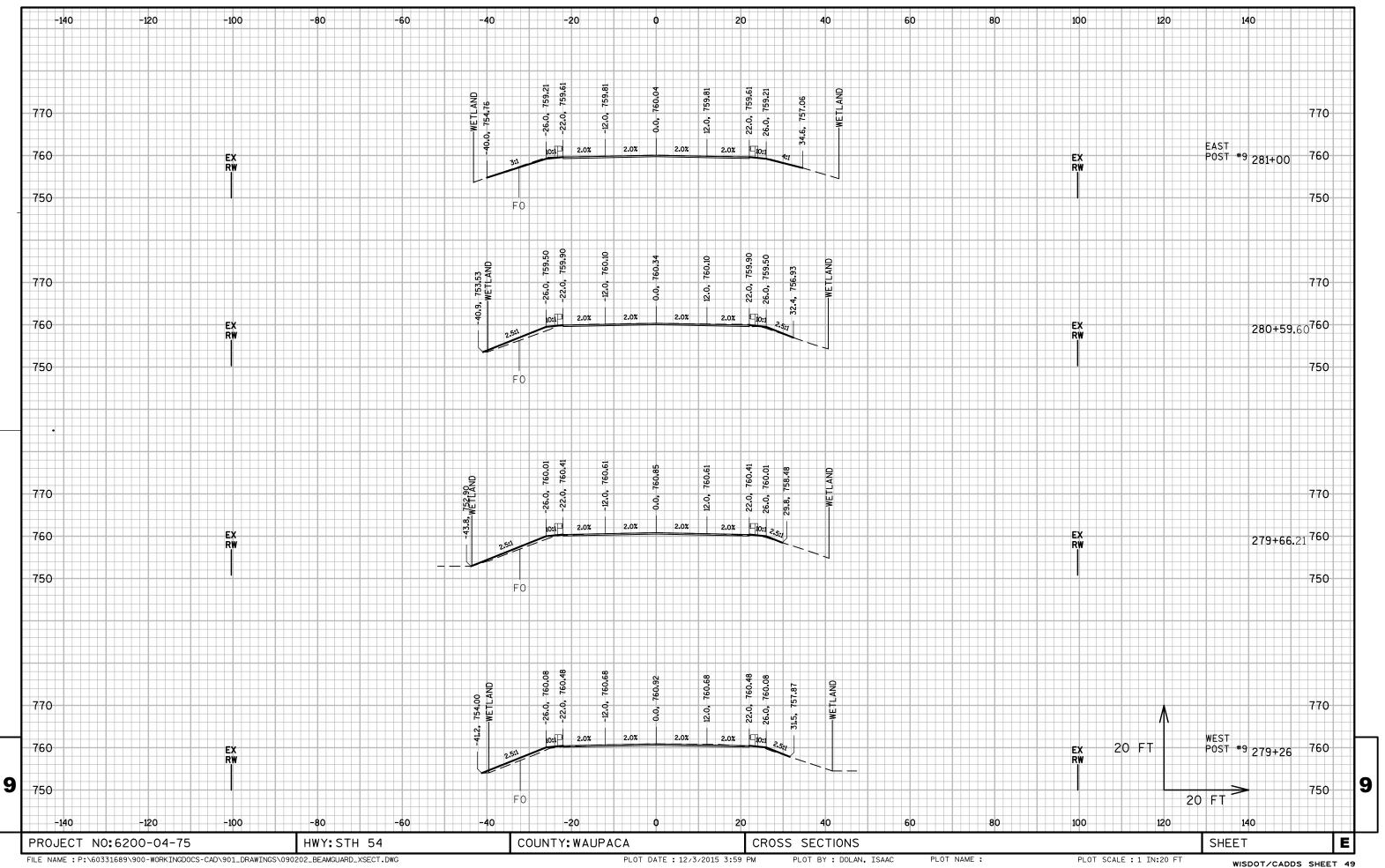


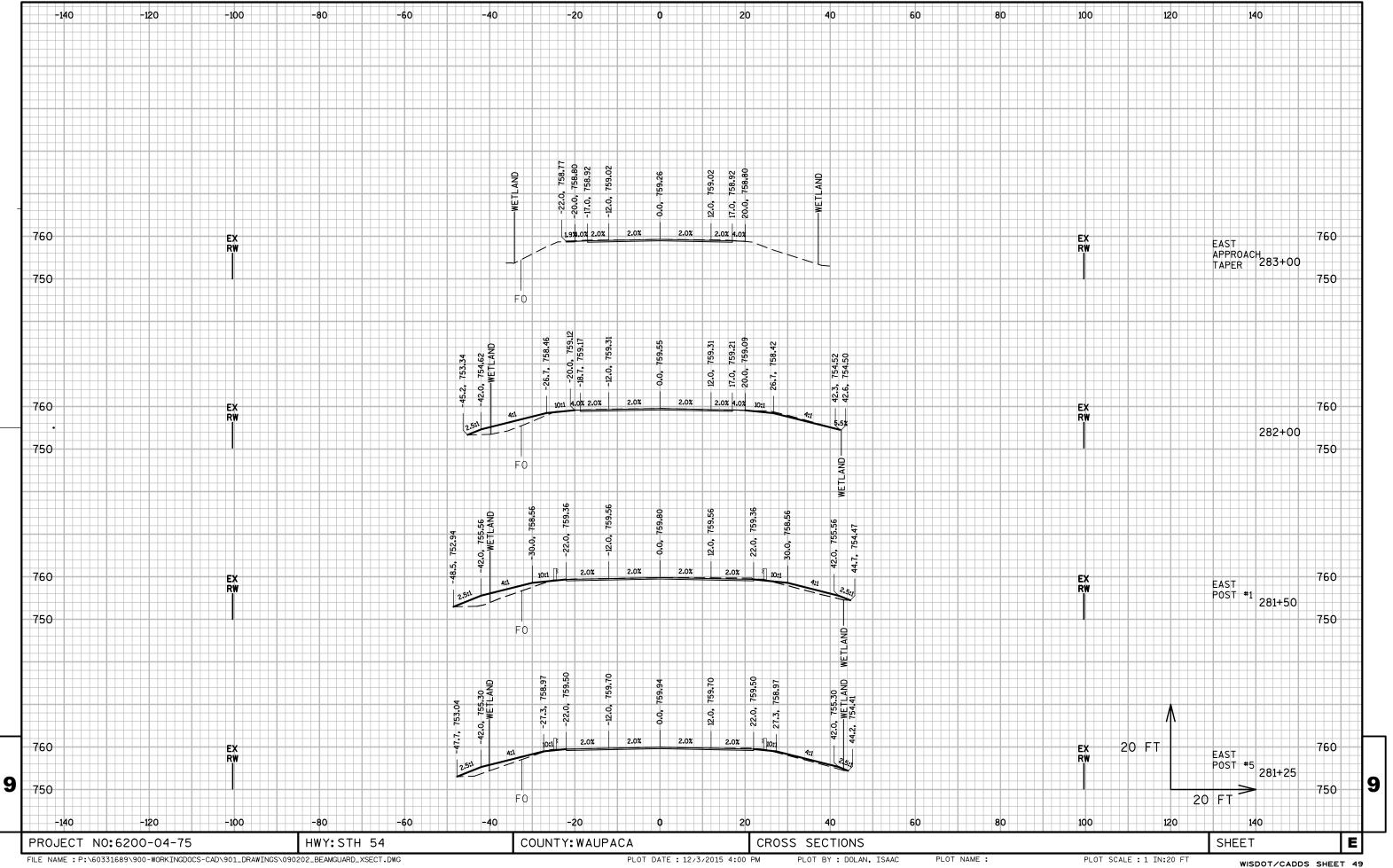


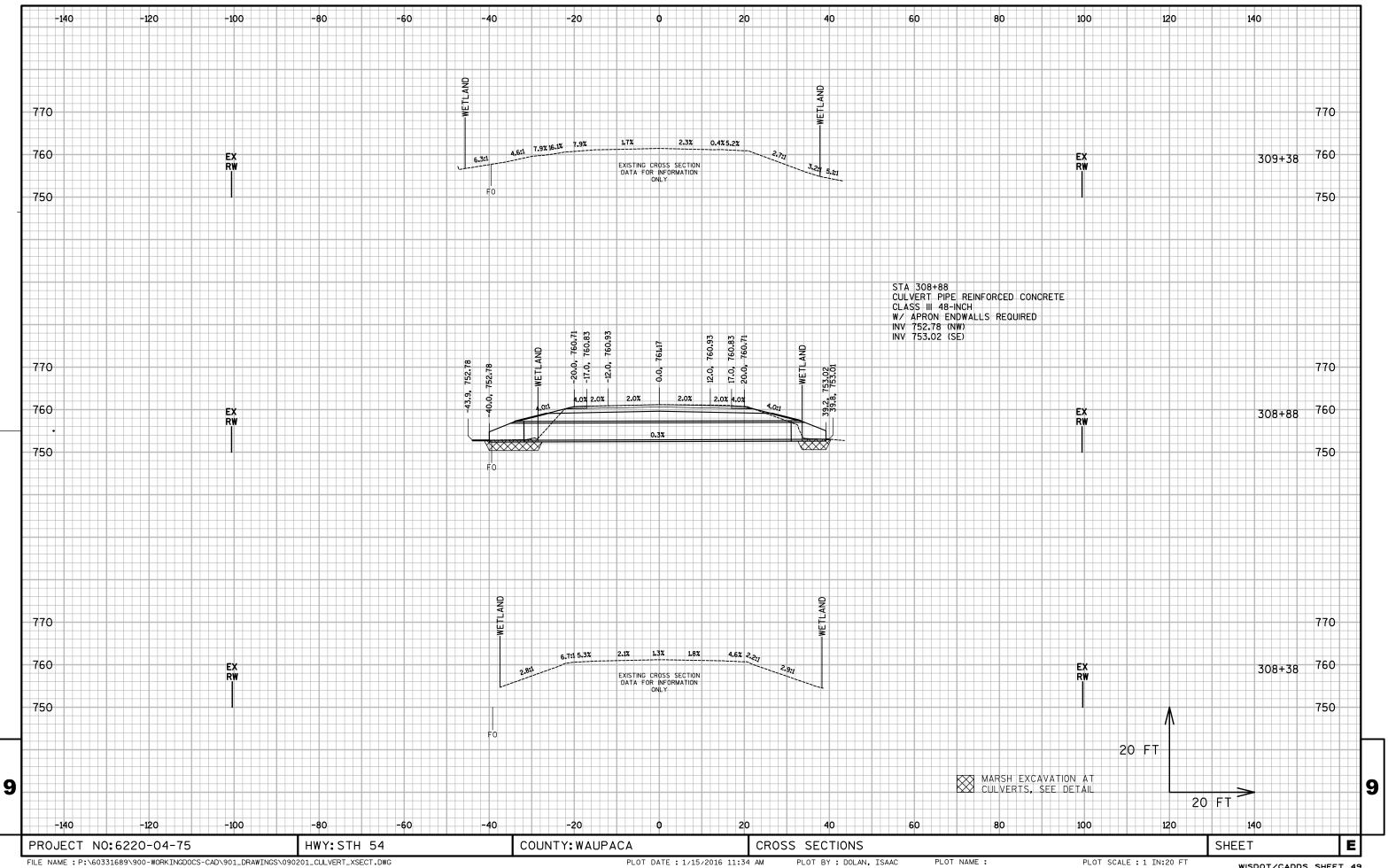


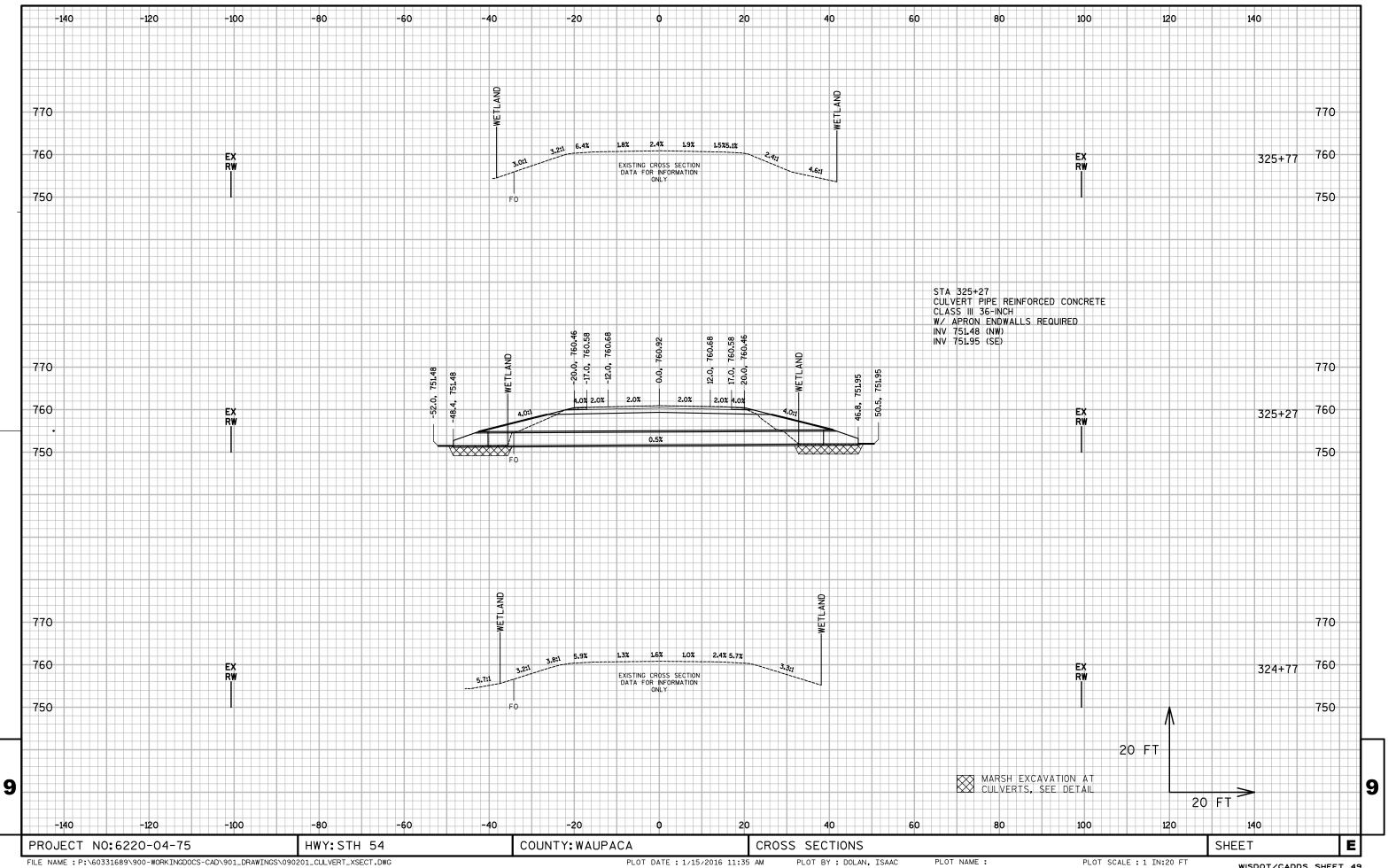


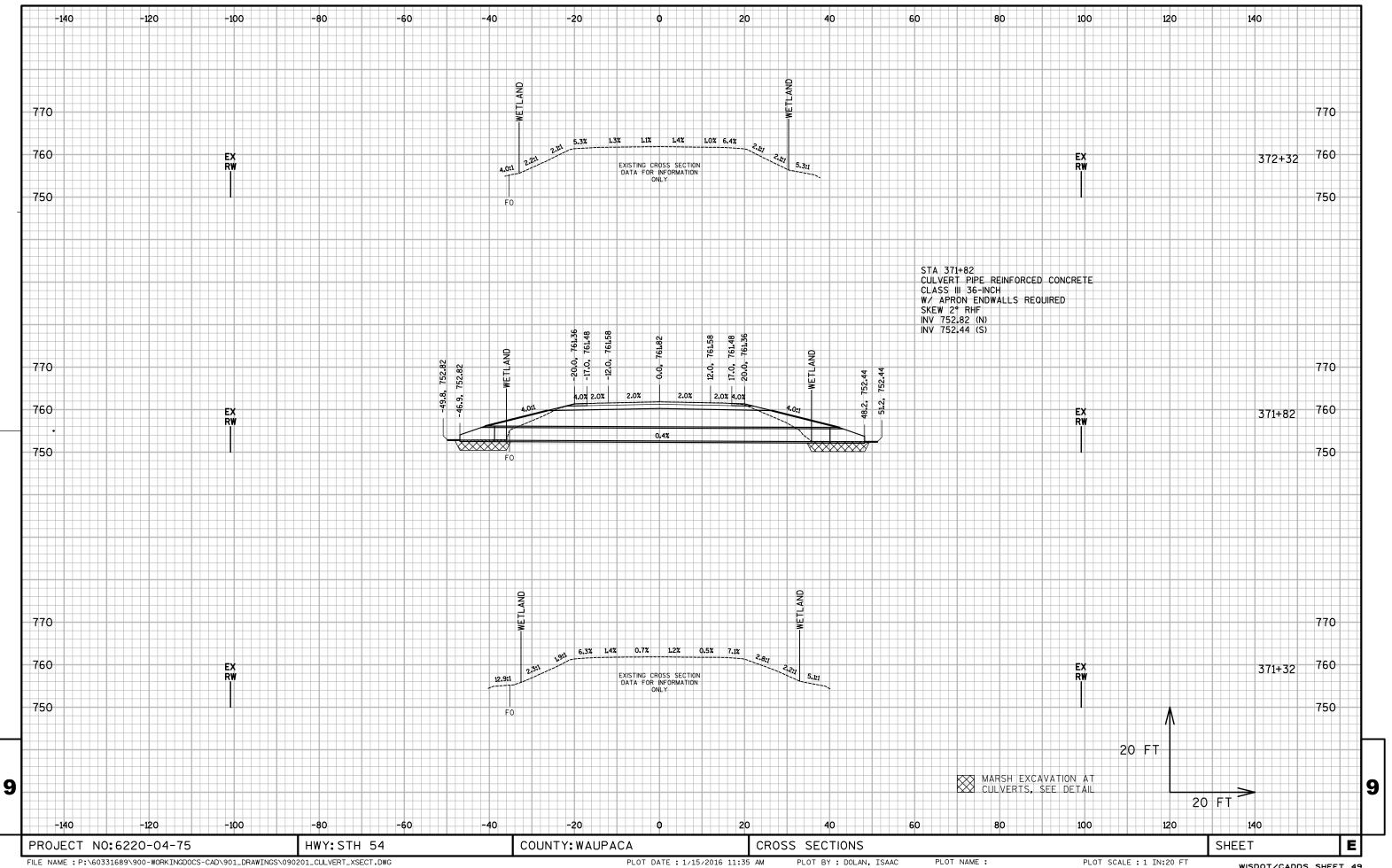












Notes



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