PROJECT WITH:

30-0

MAY 2016

ORDER OF SHEETS

Section No. 1 Typical Sections and Details Section No. 2 Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat

Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings

Section No. 7 Sign Plates

Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections

TOTAL SHEETS = 116

DESIGN DESIGNATION

A.A.D.T. (2016) = 5,600A.A.D.T. (2036) = 6,700= 777 D.H.V. = 59/41 = 6.0% DESIGN SPEED = 40 MPH = 15,276

CONVENTIONAL SYMBOLS

PROFILE PI AN GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE SLOPE INTERCEPT CULVERT (Profile View) UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE MARSH AREA UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE

₫

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1330-01-72

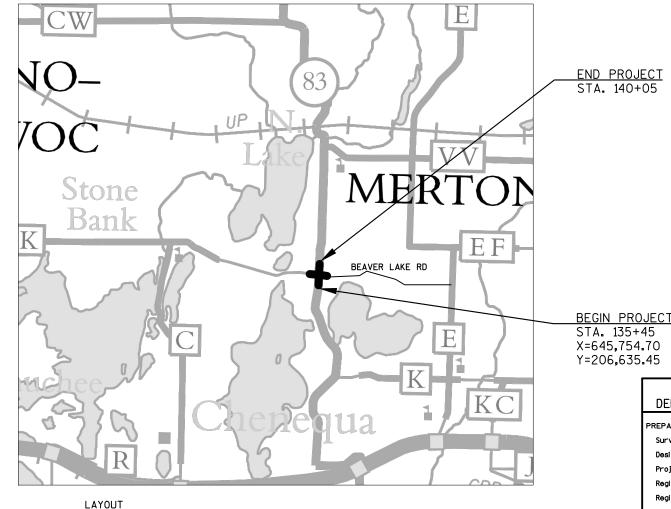
HARTLAND ROAD, VILLAGE OF CHENEQUA

CTH K, BEAVER LAKE RD INTERSECTION

STH 83

WAUKESHA COUNTY

STATE PROJECT NUMBER 1330-01-72



SCALE L

TOTAL NET LENGTH OF CENTERLINE = 0.087 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, WAUKESHA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM, NAVD88 (2012)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY WISDOT Surveyor DANIEL STRAYER NGUYEN LY STEVE CHOJNACKI

WOODED OR SHRUB AREA

GENERAL NOTES

NO ADDITIONAL TREES SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

OAK TREES SHALL NOT BE PRUNED OR CUT BETWEEN MARCH AND JULY TO PREVENT SPREAD OF OAK WILT.

EROSION CONTROL DEVICES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIOSN AND SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE OF CURB.

PIPE AND INLET ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER.

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS 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. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

THE LOCATIONS OF EROSION CONTROL DEVICES SHALL BE DETERMINED BY THE ENGINEER. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THOSE AREAS WITH SEEDING MIXTURE NO. 20.

EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS & GRADATIONS:

THICKNESS	<u>LAYERS</u>	<u>HMA</u>
4-INCHES (FOR EXISITING PAVEMENT AND EXISTING SHOULDER	1¾" UPPER LAYER 2¼" LOWER LAYER	4 LT 58-28 S 3 LT 58-28 S
6½-INCHES (FOR PAVEMENT WIDENING AND NEW SHOULDER)	1¾" UPPER LAYER 2¼" UPPER-LOWER LAYER 2½" LOWER-LOWER LAYER	4 LT 58-28 S 3 LT 58-28 S 3 LT 58-28 S

UTILITIES CONTACTS

WE ENERGIES (ELECTRIC) LATROY BRUMFIELD 333 W. EVERETT STREET, A299 MILWAUKEE, WI 53203 (414) 221-5617

LATROY.BRUMFIELD@WE-ENERGIES.COM

WE ENERGIES (GAS) LATROY BRUMFIELD 333 W. EVERETT STREET, A299 MILWAUKEE, WI 53203 (414) 221-5617 LATROY.BRUMFIELD@WE-ENERGIES.COM

AT&T WISCONSIN ALPER KOLCU 2005 PEWAUKEE RD WAUKESHA, WI 53188 (262) 970-8494 AK308X@ATT.COM

DESIGN CONTACT:

NGUYEN LY WISDOT PROJECT MANAGER 141 NW BARSTOW STREET WAUKESHA, WI 53187 PHONE: (262) 548-8739 NGUYEN.LY@DOT.WI.GOV

VILLAGE COTNACT:

ROBERT DOUGLAS
VILLAGE ADMINISTRATOR
31275 W HIGHWAY K
CHENEQUA, WI 53029
PHONE: (262) 367-2239 EXT 103
CHIEF@CHENEQUA.ORG

WE ENERGIES (ELECTRIC) FIELD CONTACT BRYAN STOEHR 500 S. 116TH ST. WEST ALLIS, WI 53214 (414) 944-5516 BRYAN.STOEHR@WE-ENERGIES.COM

WE ENERGIES (GAS) FIELD CONTACT TYLER ROEBKE 1830 S. WEST AVE. WAUKESHA, WI 53189 (262) 574-3163 TYLER.ROEBKE@WE-ENERGIES.COM

TIME WARNER CABLE
1320 N. DR. MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212
(414) 277-4045
WIS.ENGINEERING@TWCABLE.COM

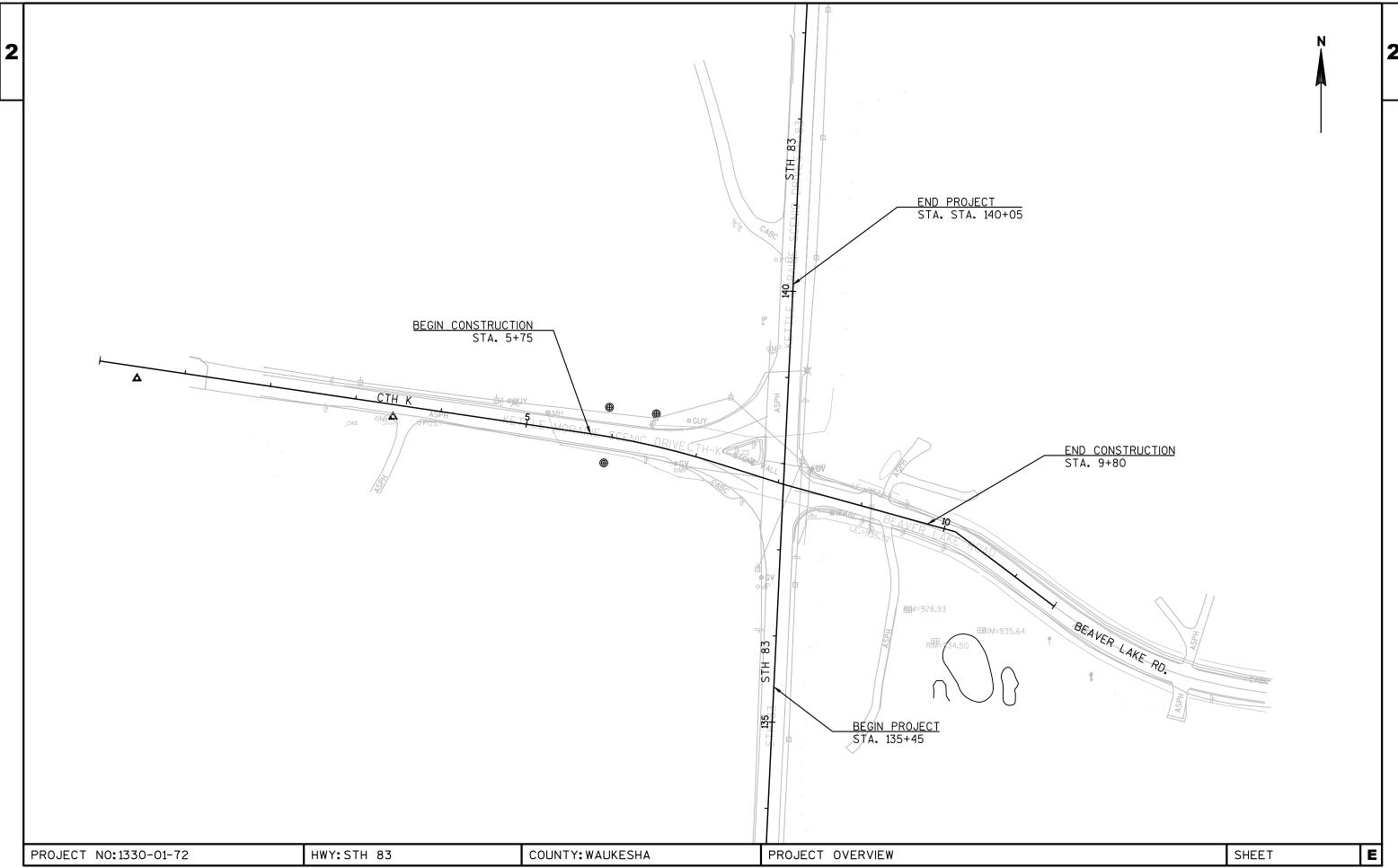
DNR CONTACT:

CRAIG WEBSTER
141 NW BARSTOW ST.RM:180
WAUKESHA,WI 53188
PHONE: (262) 574-2141
CRAIG.WEBSTER@WISCONSIN.GOV

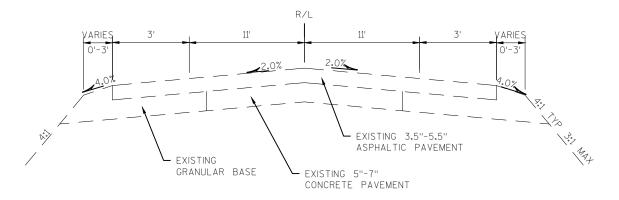


PROJECT NO: 1330-01-72 HWY: STH 83 COUNTY: WAUKESHA COUNTY GENERAL NOTES SHEET: E

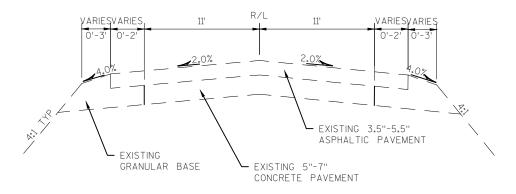
FILE NAME : ______ PLOT BY : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1



2



EXISTING TYPICAL SECTION
STH 83
STA. 135+45 - STA. 140+05



EXISTING TYPICAL SECTION
CTH K / BEAVER LAKE RD
STA. 5+75 - STA. 9+80

PROJECT NO:1330-01-72 HWY:STH 83 COUNTY:WAUKESHA TYPICAL SECTION SHEET ____ **E**

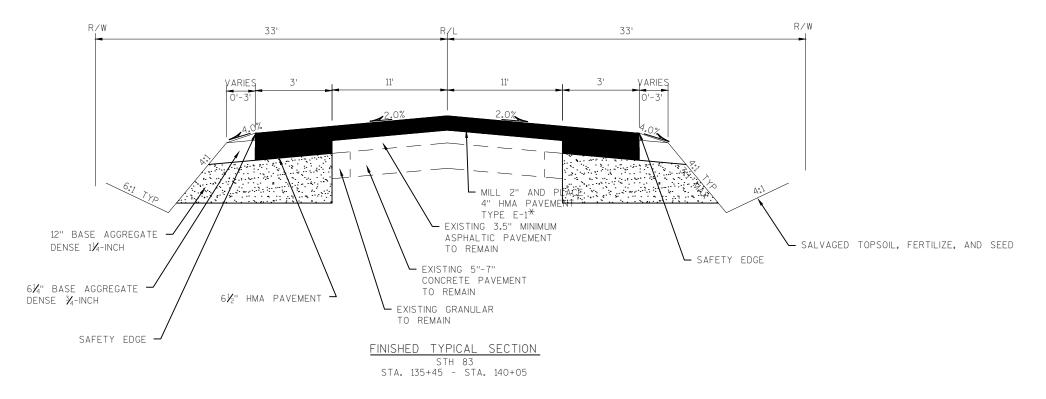
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PLOT DATE : 2/25/2016 2:31 PM

PLOT BY : HAYNES, RONNIE

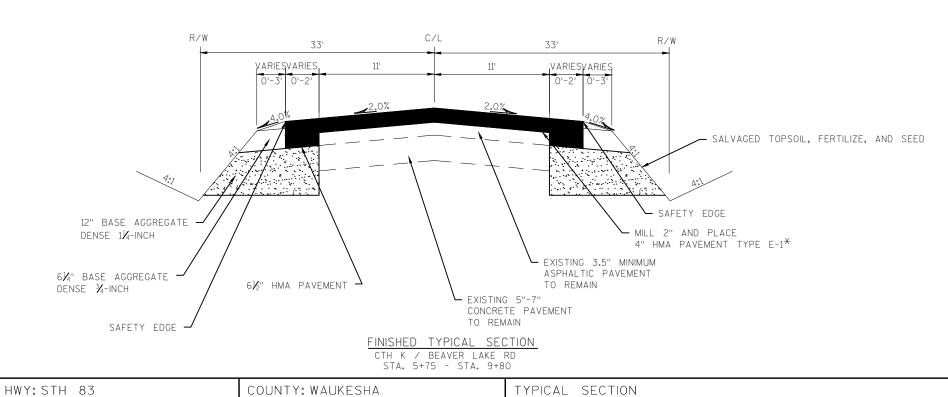
PLOT NAME: _____PLOT SCALE : 1 IN:10 FT

E



FOR PAVEMENT WIDENING AND NEW PAVED SHOULDER PLACE 12-INCHES OF BASE AGGREGATE DENSE 1 1/4-INCHES BENEATH 6 1/2-INCHES OF HMA PAVEMENT

PROJECT NO: 1330-01-72



FILE NAME : N:\PDS\C3D\CAD\13300102\020300_TS.DWG PLOT DATE : 2/25/2016 2:31 PM PLOT BY : HAYNES, RONNIE PLOT NAME :PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

NOMINAL 4" AT

© OF ROADWAY

19'

ASPHALTIC SURFACE
REQ'D.

SAW CUT REQ'D.

EXISTING CONCRETE PAVEMENT
OR ASPHALTIC SURFACE
ASPHALTIC SURFACE OR STRUCTURE

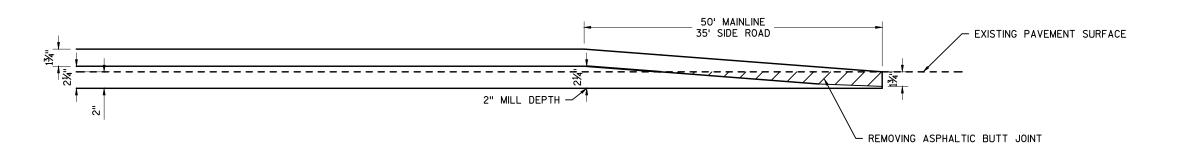
DETAIL OF BUTTED JOINT

* EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

PROJECT NO:1330-01-72 HWY:STH 83 COUNTY:WAUKESHA CONSTRUCTION DETAILS SHEET

FILE NAME : N:\PDS\C3D\CAD\13300102\021001_CD.DWG

PLOT DATE : 2/26/2016 8:47 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42



REMOVING ASPHALTIC SURFACE BUTT JOINT

BUTT JOINT DETAIL

MATCH EXISTING PAVEMENT AT THE FOLLOWING LOCATIONS:

MAINLINE STA. 137+45 AND 140+05

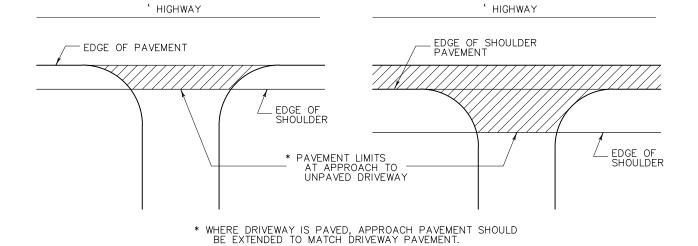
CTH K AND BEAVER LAKE STA. 5+75 AND 9+80

PROJECT NO:1330-01-72 HWY:STH 83 COUNTY:WAUKESHA CONSTRUCTION DETAILS SHEET

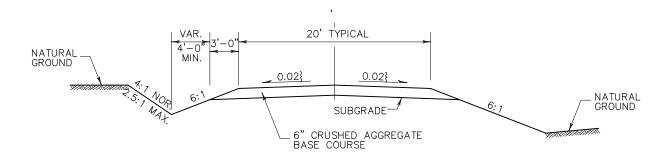
FILE NAME: N:\PDS\C3D\CAD\13300102\021001_CD.DWG

PLOT DATE: 2/26/2016 8:47 AM PLOT BY: HAYNES, RONNIE PLOT NAME: PLOT SCALE: 1" = 1'
WISDOT/CADDS SHEET 42

TYPICAL PAVEMENT MARKING FOR SIDEROADS



PLAN VIEW (PAVED SHOULDER ON SHIGHWAY) RURAL DRIVEWAY INTERSECTION DETAIL

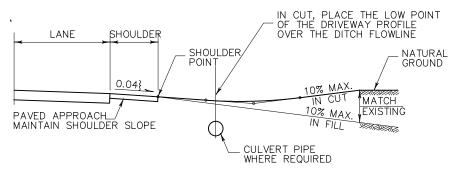


IN CUT

PLAN VIEW

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES

HWY:STH 83 COUNTY: WAUKESHA Ε PROJECT NO:1330-01-72 CONSTRUCTION DETAILS SHEET

FILE NAME : N:\PDS\C3D\CAD\13300102\021001_CD.DWG PLOT DATE : 2/26/2016 8:47 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1" = 1' WISDOT/CADDS SHEET 42

EDGE LINE MARKING

THROUGH HIGHWAY

EDGE LINE MARKING

END MARKING WHERE CURB BEGINS

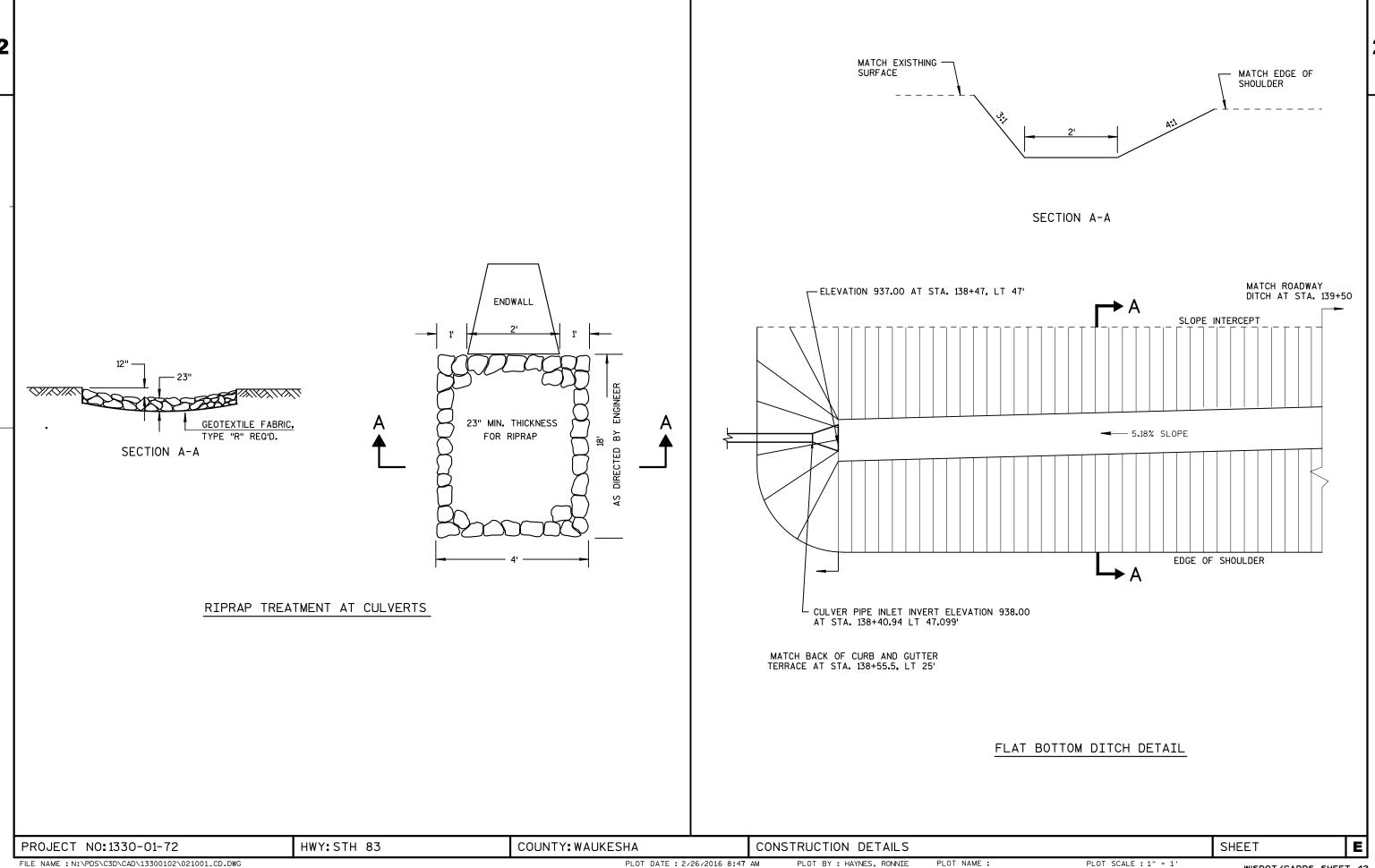
END MARKING WHERE CURB BEGINS

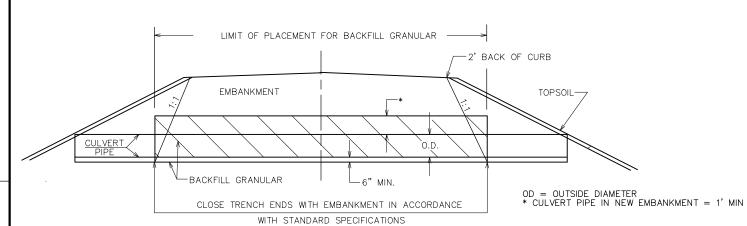
MINOR INTERSECTION WITH CURBS

PROJECT NO:1330-01-72 HWY:STH 83 COUNTY:WAUKESHA CONSTRUCTION DETAILS SHEET E

(TYPICAL MARKING)

FILE NAME : N:\PDS\C3D\CAD\13300102\021001_CD.DWG PLOT DATE : 2/26/2016 8:47 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1" = 1' WISDOT/CADDS SHEET 42

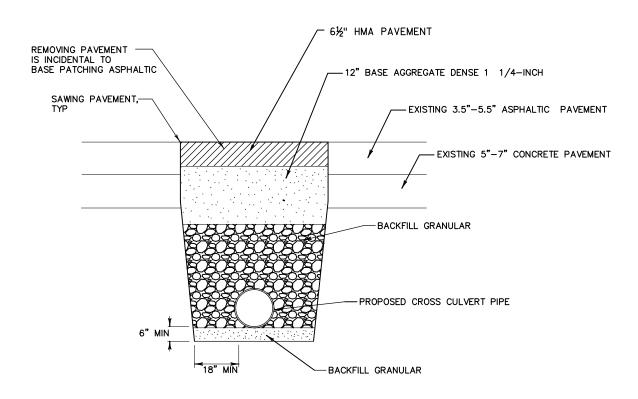




CULVERT BACKFILL DETAIL

STA. 7+60

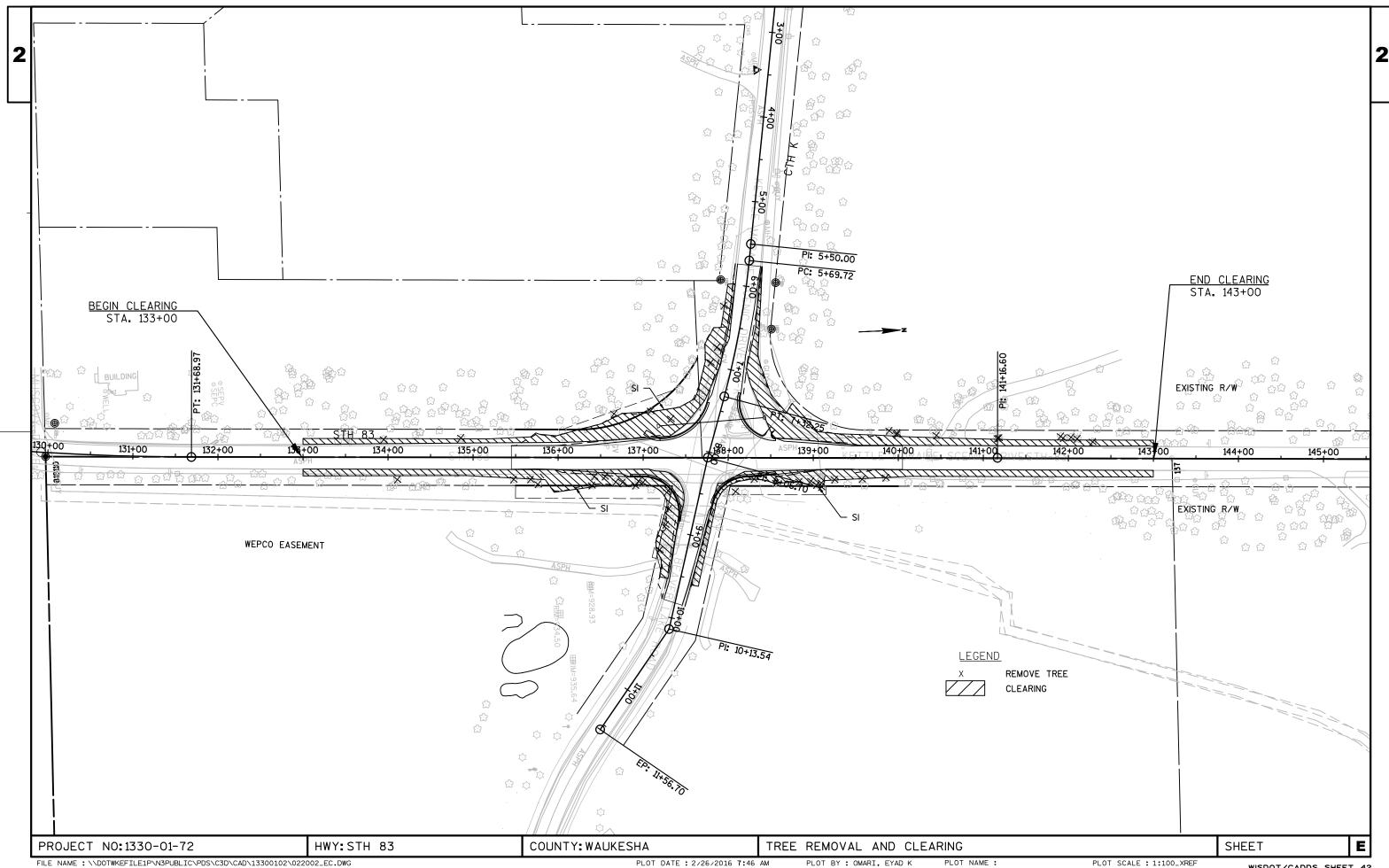
1. SEE CONSTRUCTION DETAILS "DETAIL FOR INSTALLATION OF CROSS CULVERT PIPES THOUGH EXISTING ROADWAY EMBANKMENT" FOR ADDITION INFORMATION.



DETAIL FOR INSTALLATION OF CROSS CULVERT PIPES

THROUGH EXISTING ROADWAY EMBANKMENT STA. 7+60

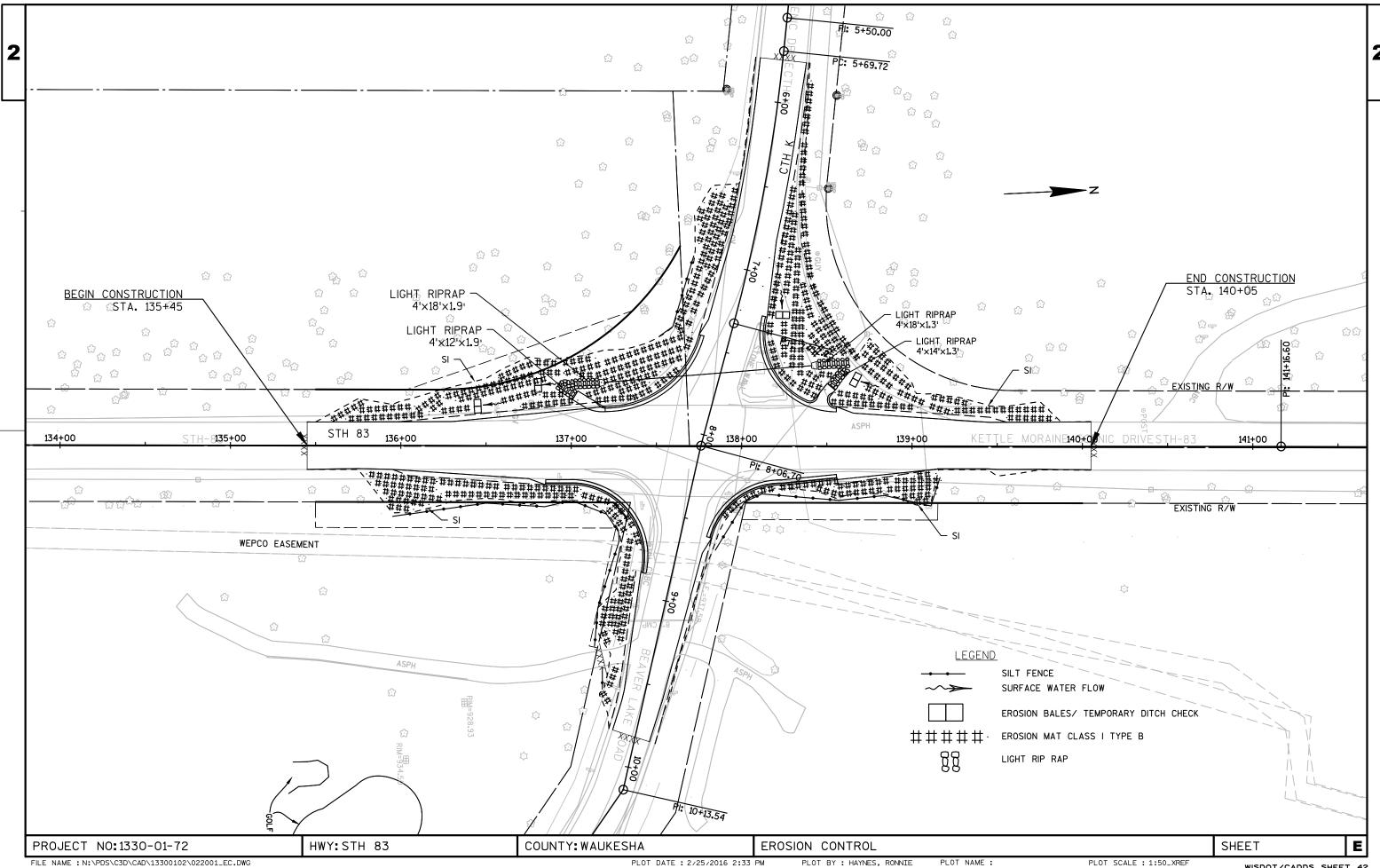
PROJECT NO:1330-01-72 HWY:STH 83 COUNTY:WAUKESHA CONSTRUCTION DETAILS SHEET

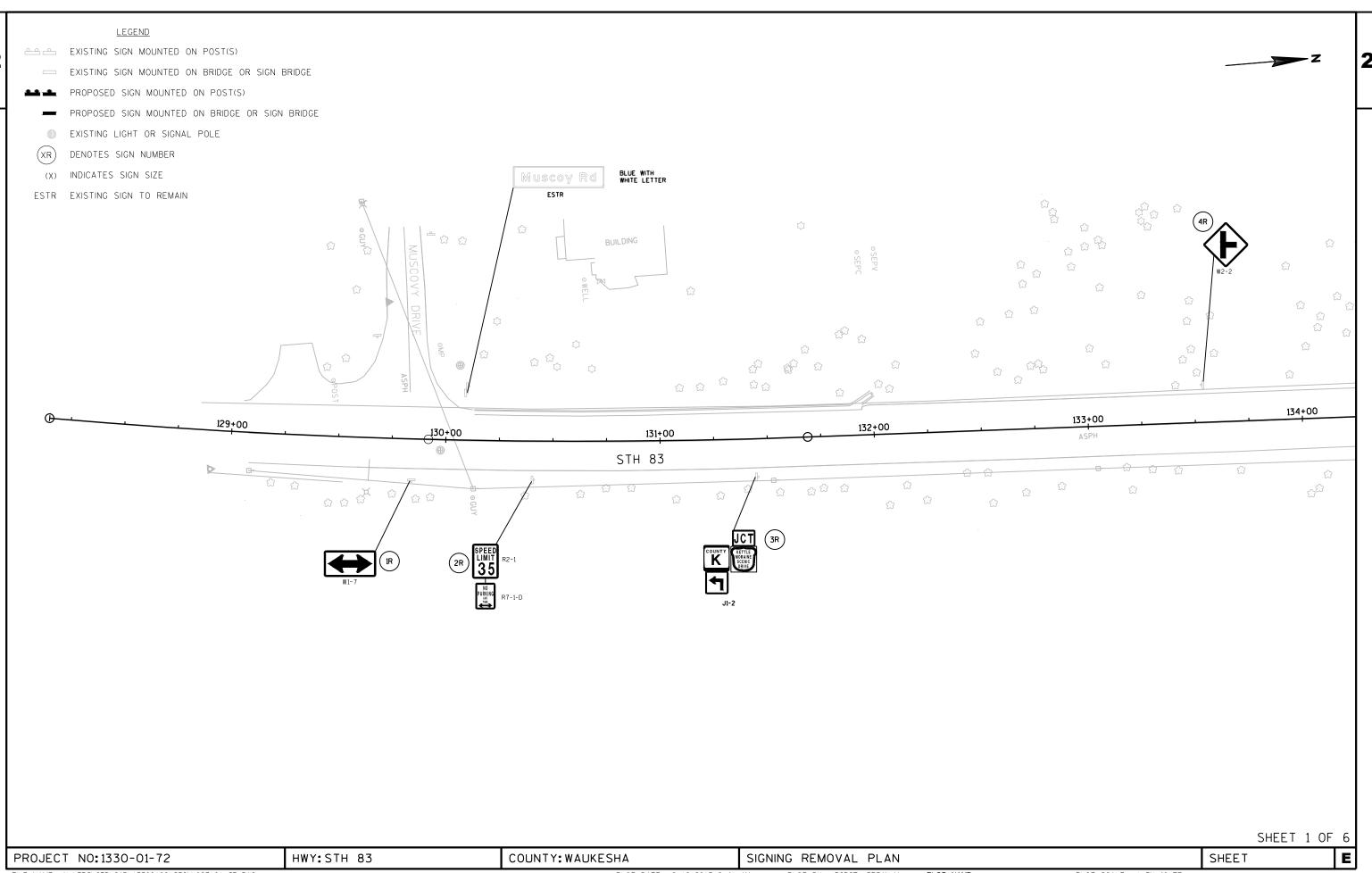


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PLOT DATE : 2/26/2016 7:46 AM

PLOT SCALE : 1:100_XREF



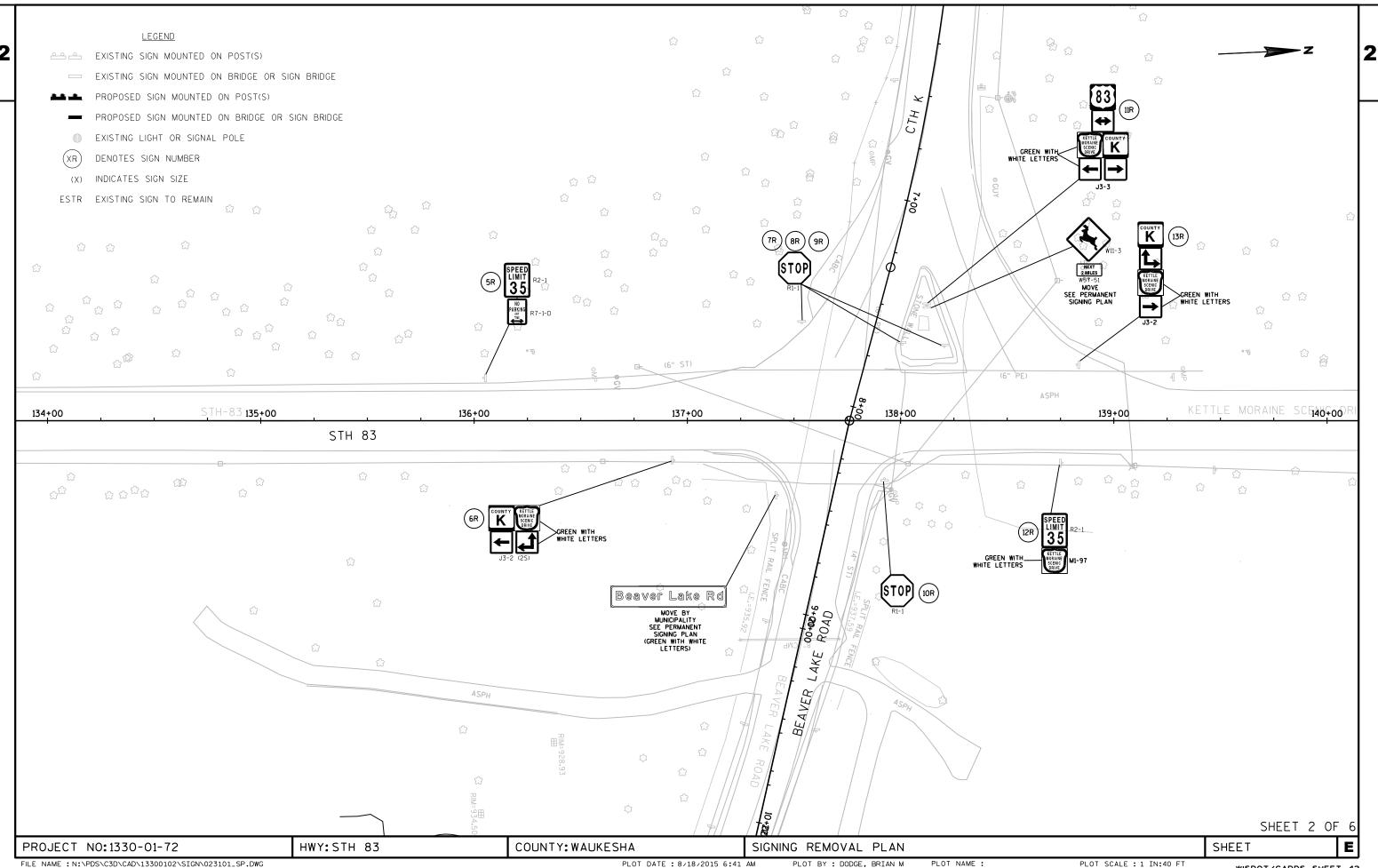


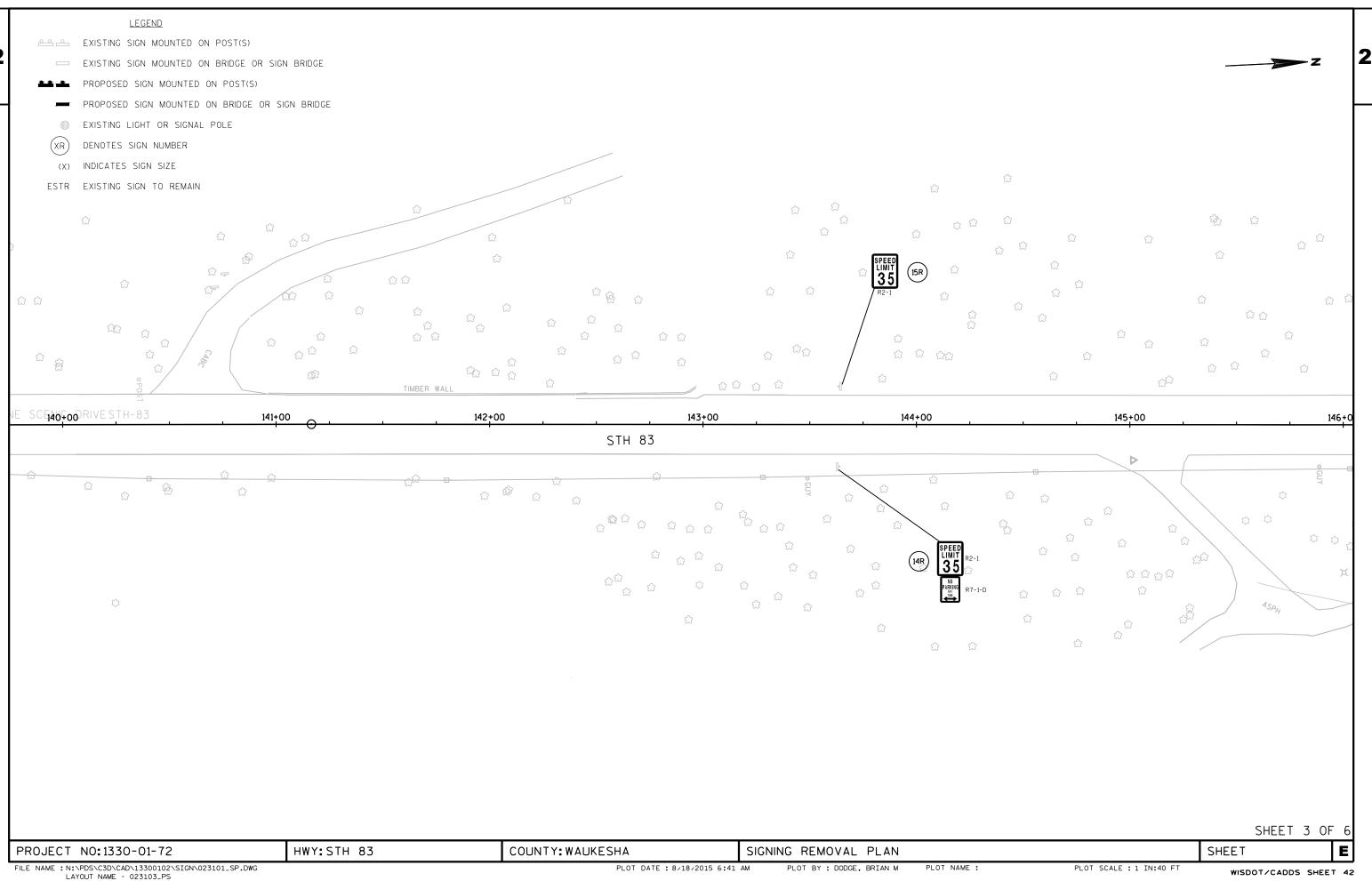
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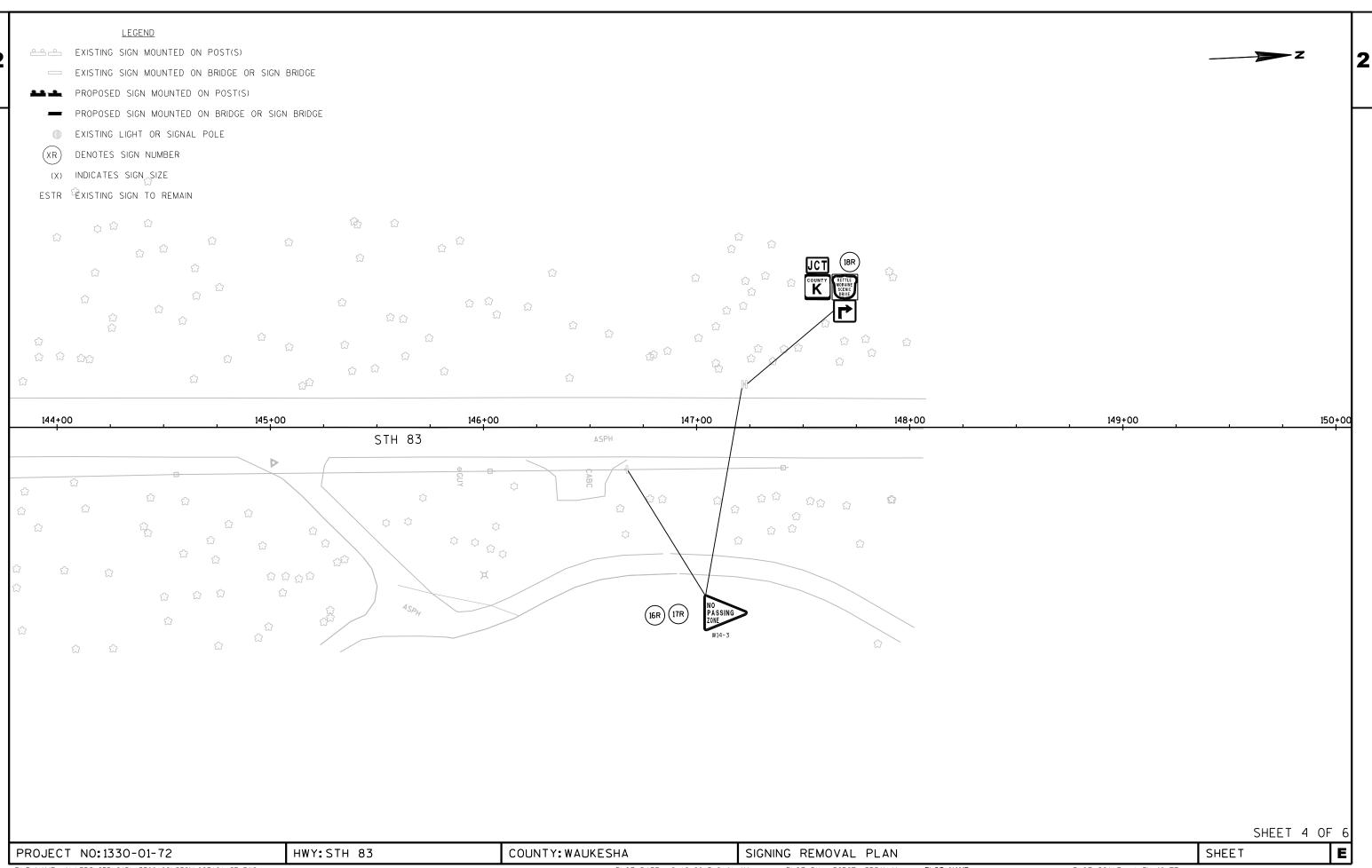
PLOT DATE : 8/18/2015 6:41 AM

PLOT BY : DODGE, BRIAN M PLOT NAME :

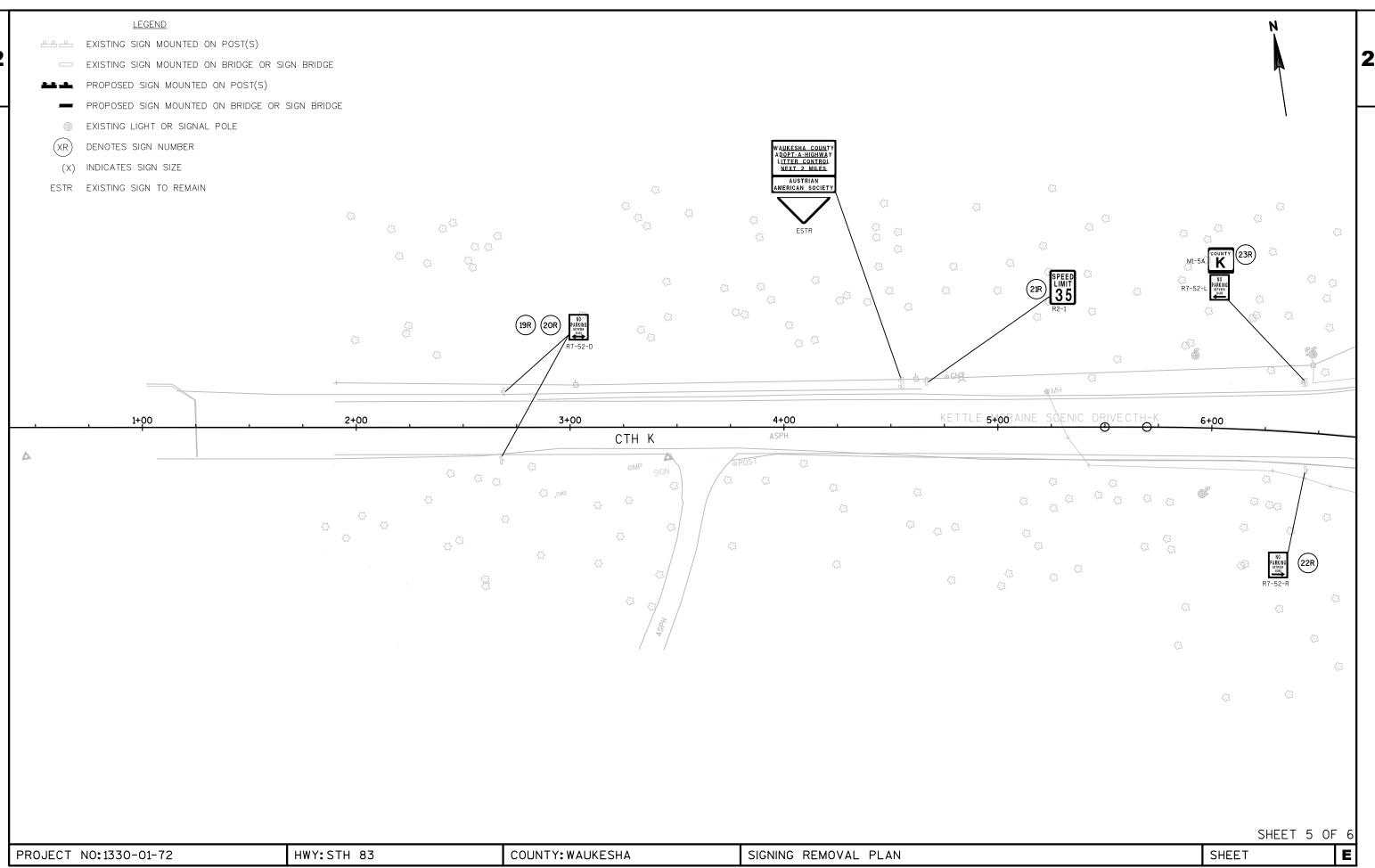
PLOT SCALE : 1 IN:40 FT

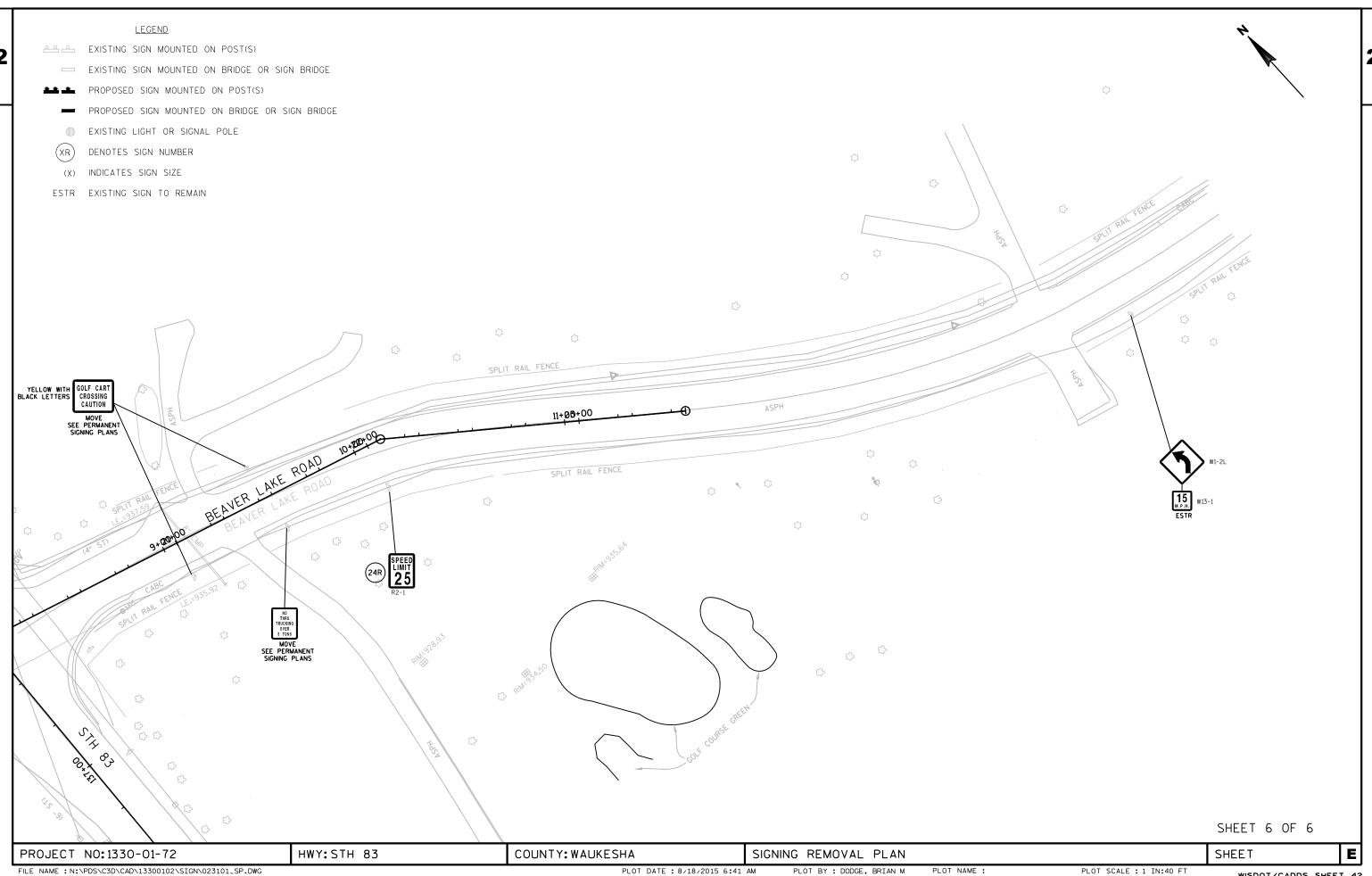


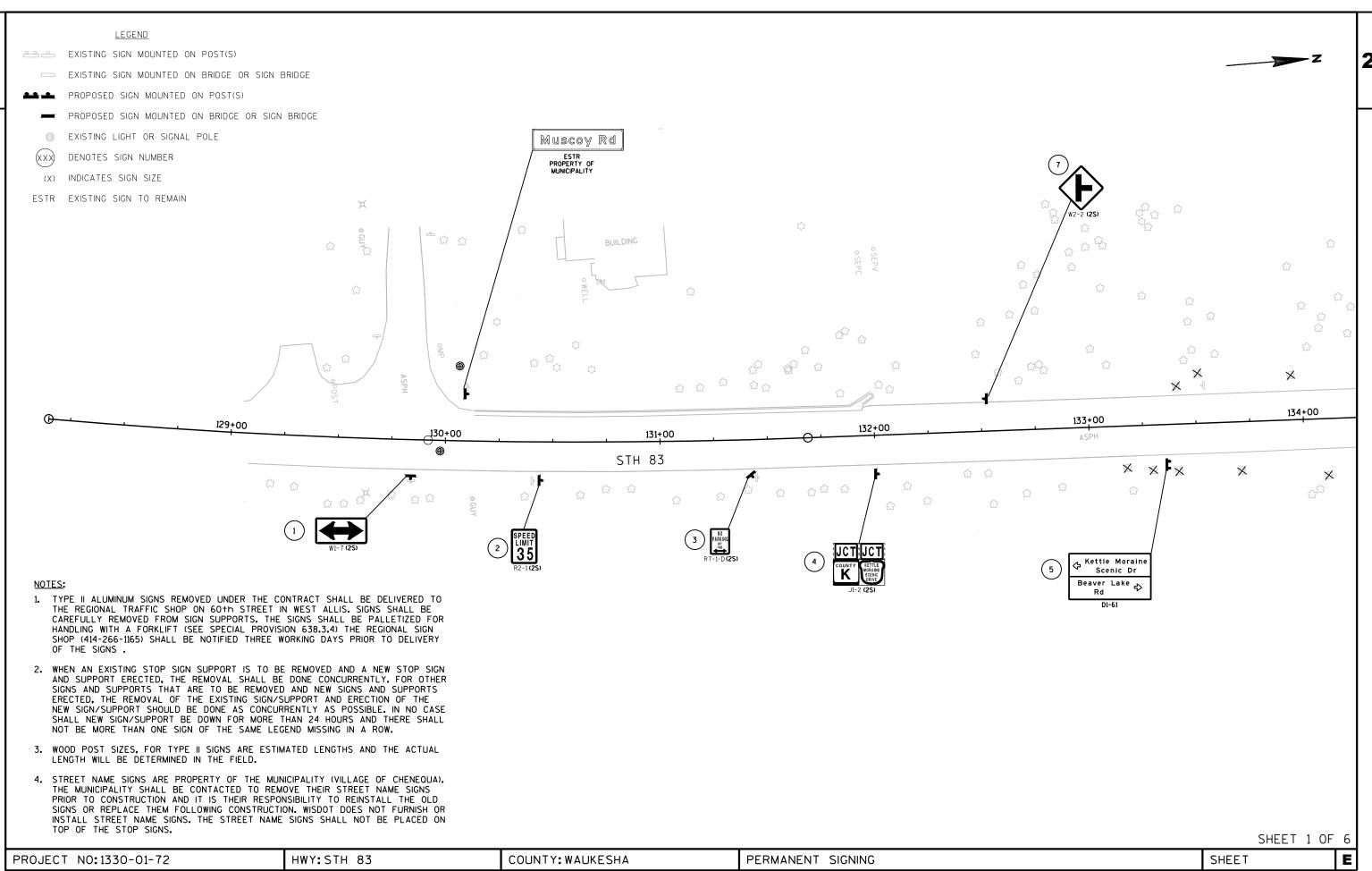




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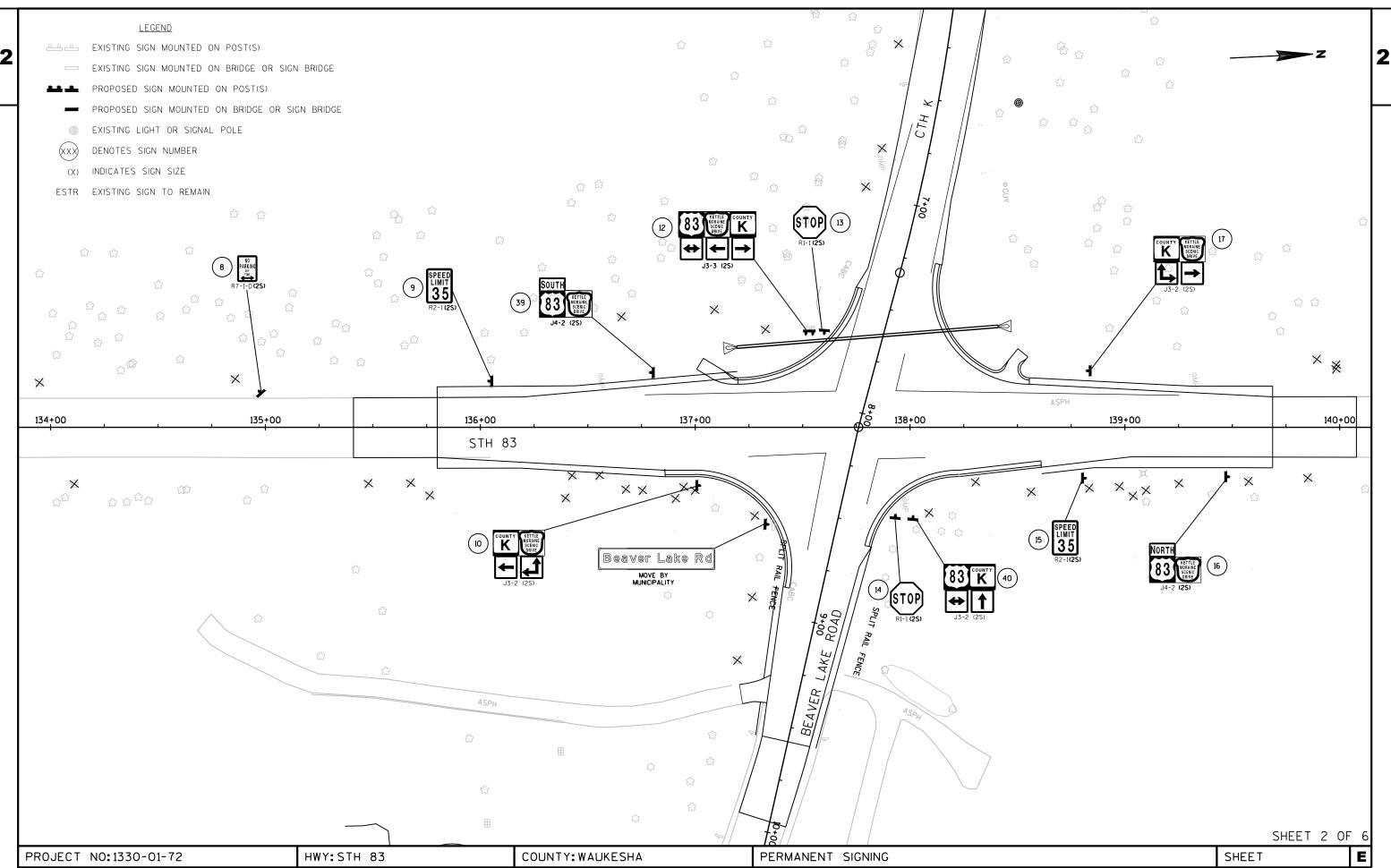


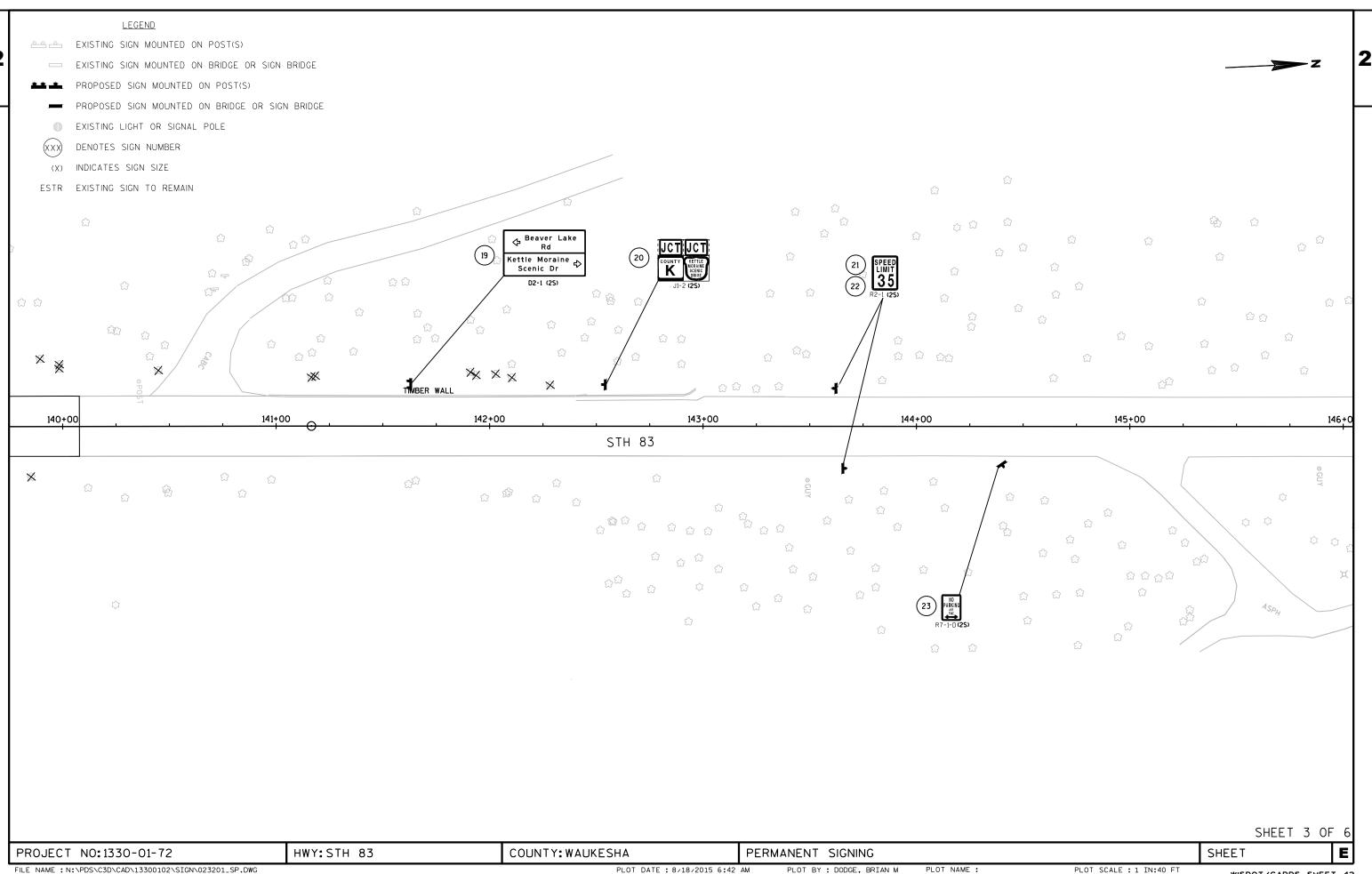


FILE NAME : N:\PDS\C3D\CAD\13300102\SIGN\023201_SP.DWG LAYOUT NAME - 023201_PS PLOT DATE: 8/18/2015 6:42 AM

PLOT BY : DODGE, BRIAN M PLOT NAME :

PLOT SCALE : 1 IN:40 FT



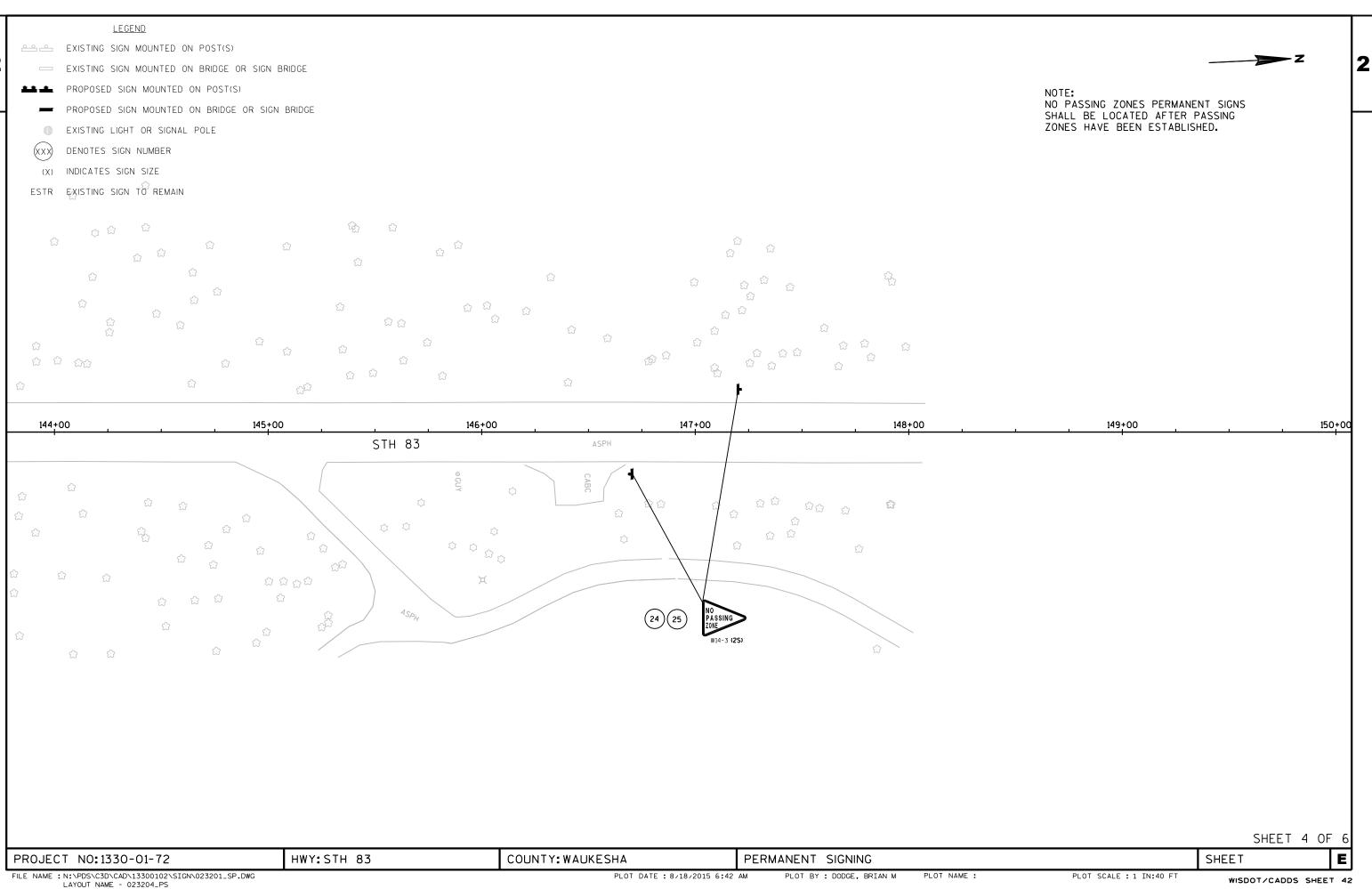


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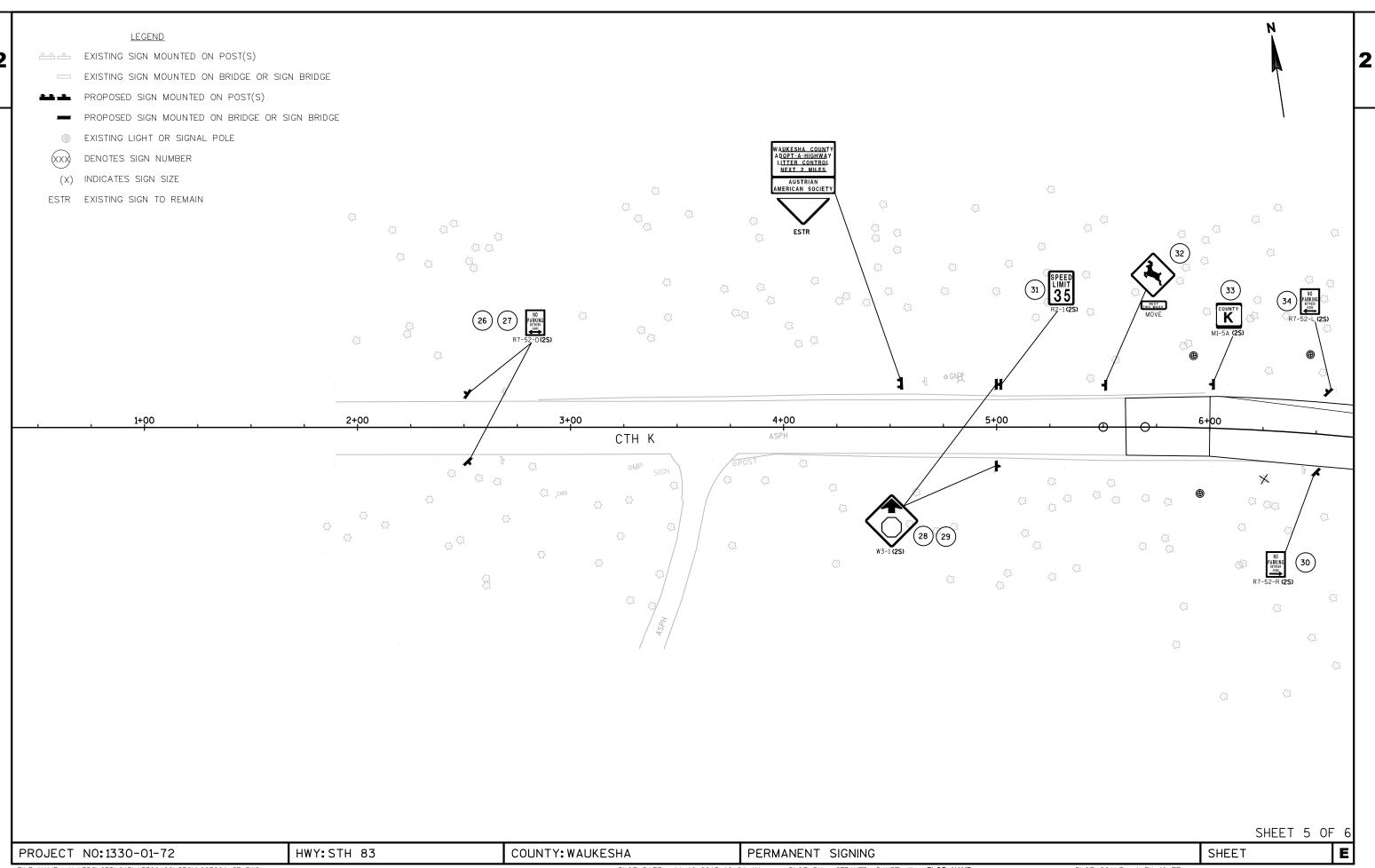
PLOT BY : DODGE, BRIAN M

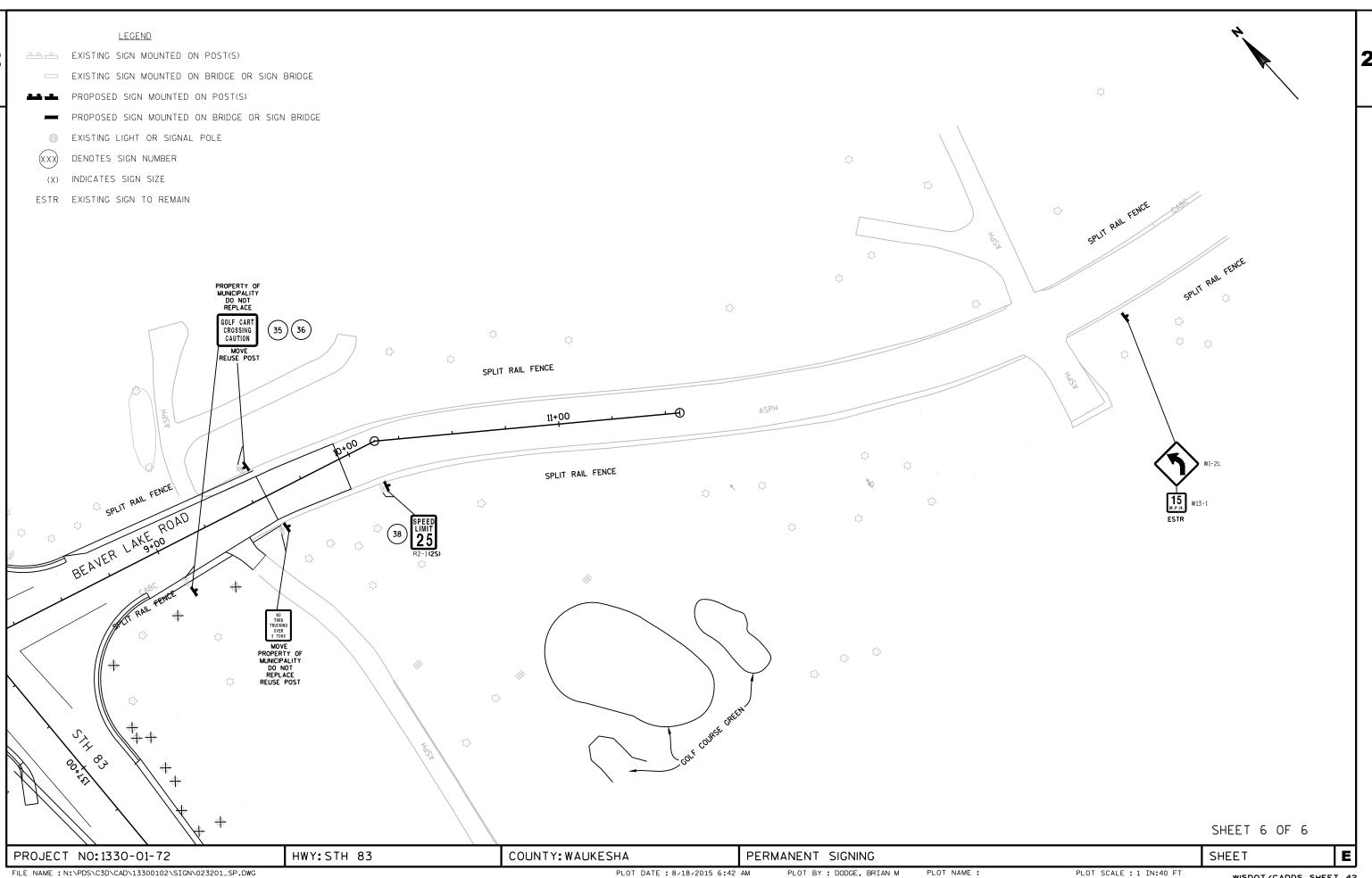
PLOT SCALE : 1 IN:40 FT

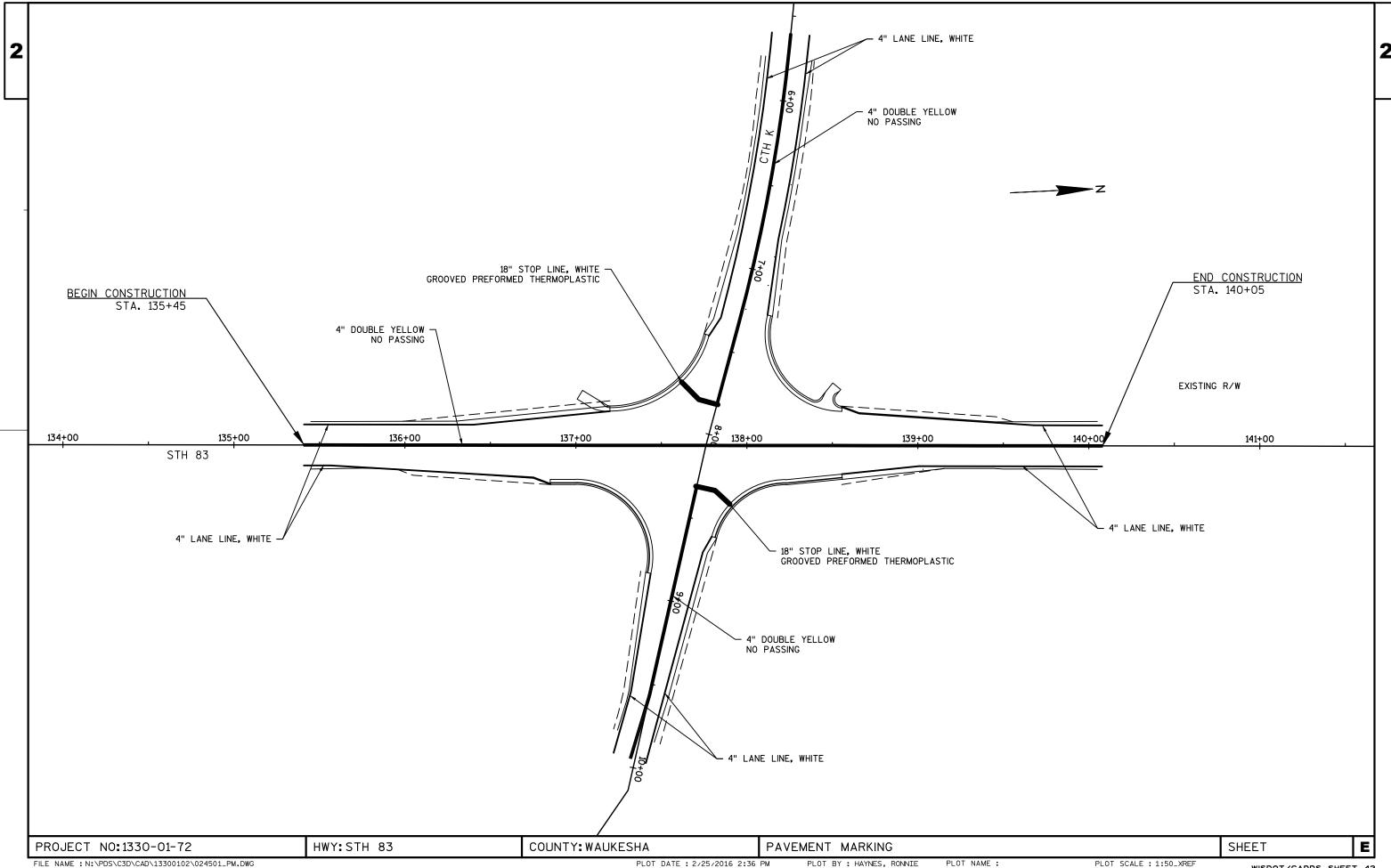


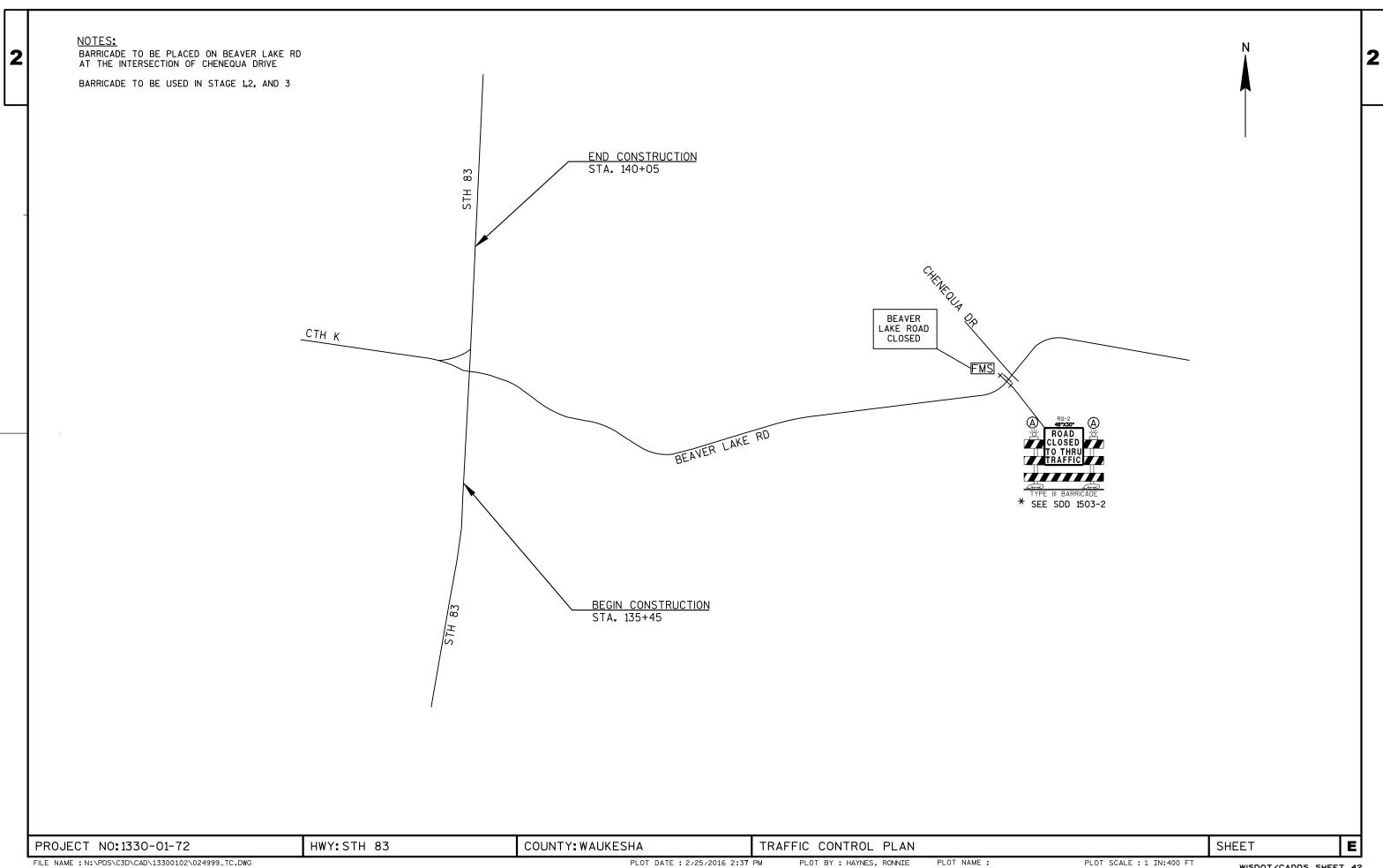
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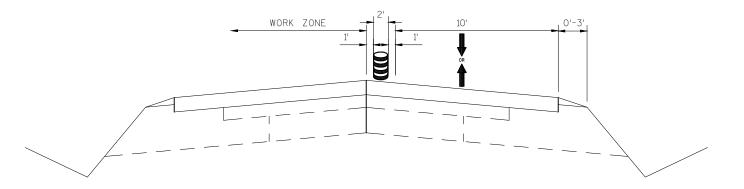
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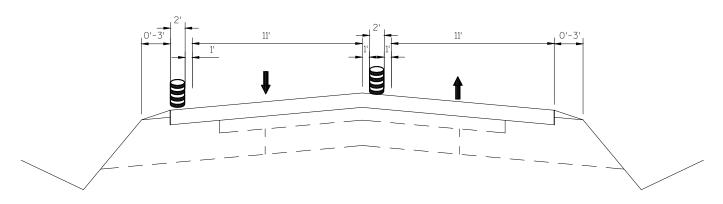
TYPICAL SECTION DURING WORK HOURS

STH 83

STA. 135+45 - STA. 140+05

NOTES:

- NB WORK ZONE SHOWN, SB IS MIRROR
- ONE WAY TRAFFIC WORK TO BE DONE UNDER FLAGGING OPERATION
- MAINLINE PAVEMENT SURFACE WITHIN THE WORK ZONE MUST BE AVAILABLE FOR VEHICLES AT END OF WORKING DAY
- ANY DIFFERENCE IN PAVEMENT ELEVATION EXCEEDING 4-INCHES MUST BE WEDGED (FOR NO WORK HOURS)
- BARREL WITHIN SHOULDER DURING NON-WORK HOURS REQUIRED

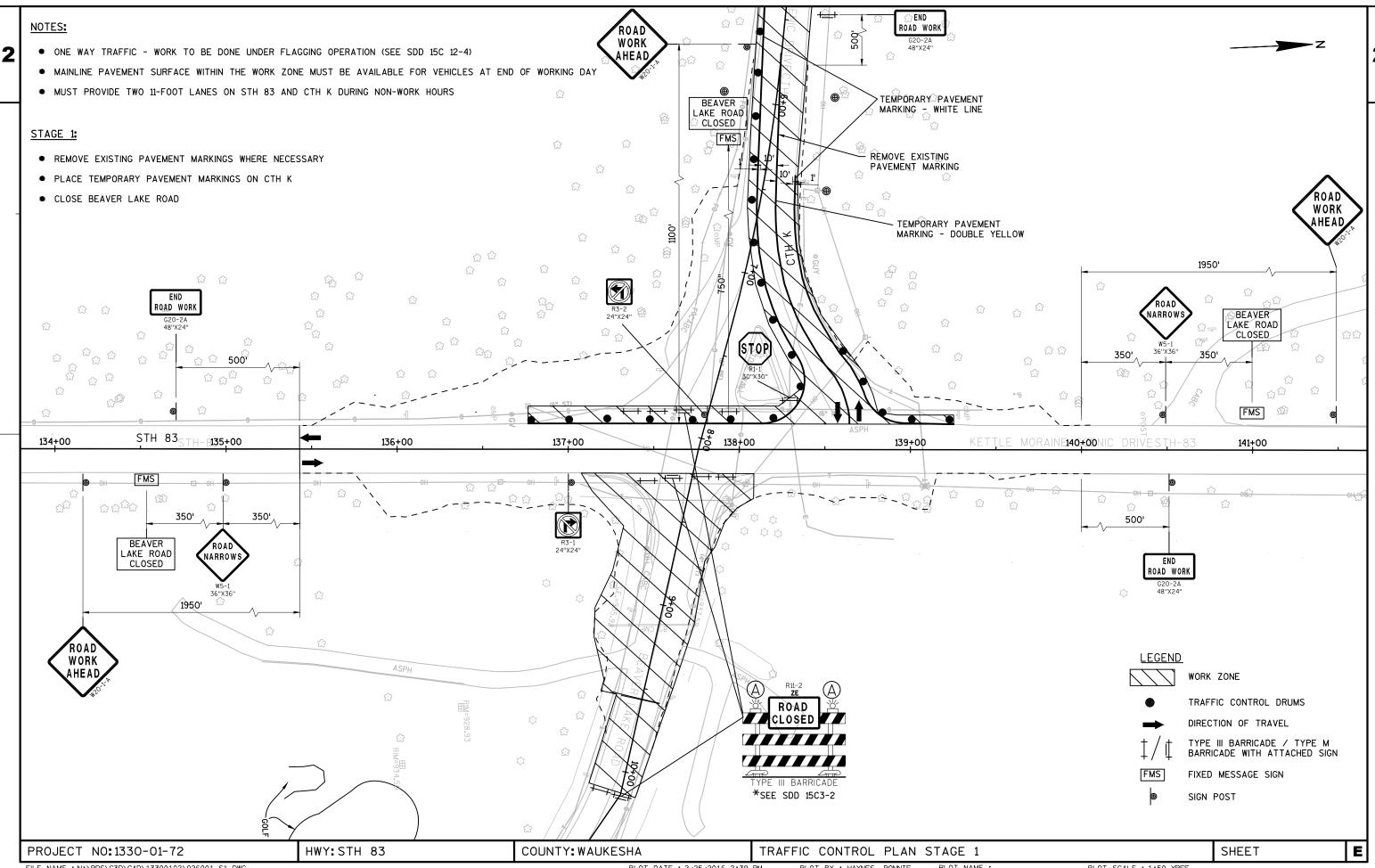


TYPICAL SECTION DURING NON-WORK HOURS

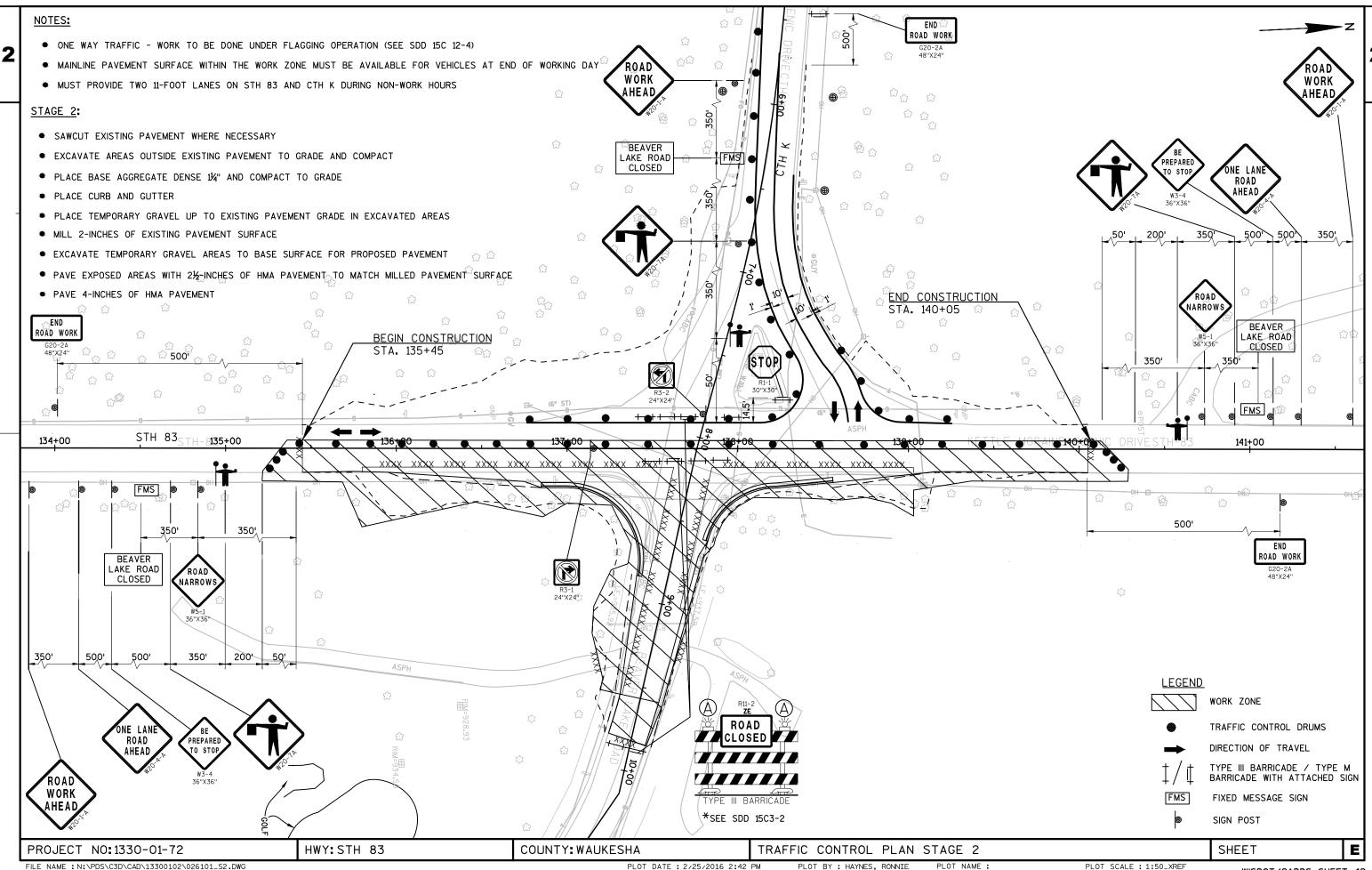
STH 83

STA. 135+45 - STA. 140+05

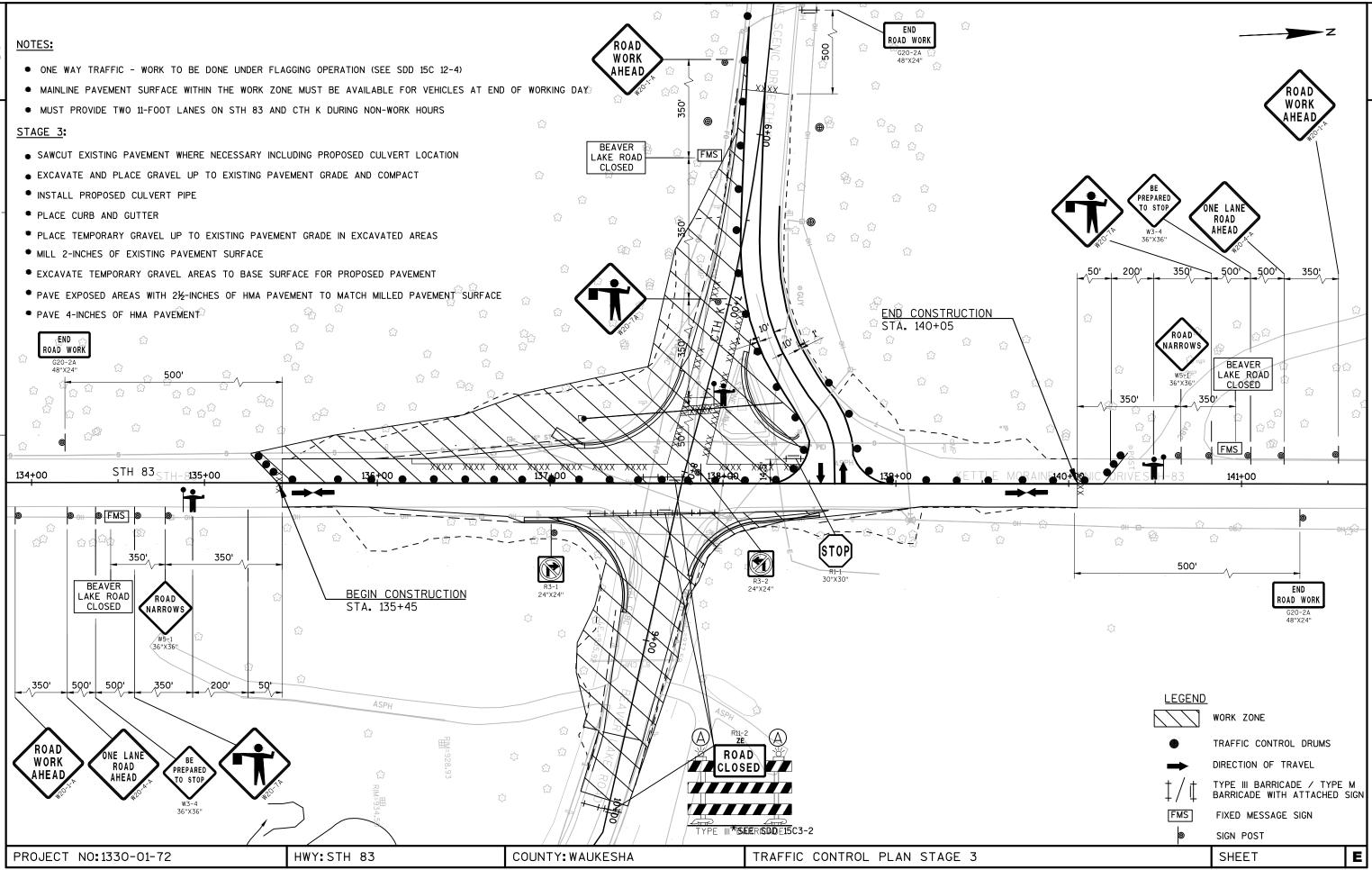
PROJECT NO:1330-01-72 HWY: STH 83 COUNTY: WAUKESHA PLAN: TRAFFIC CONTROL TYPICAL SECTION SHEET ____ **E**



FILE NAME: N:\PDS\C3D\CAD\13300102\026001_S1.DWG PLOT BY: HAYNES, RONNIE PLOT NAME: PLOT SCALE: 1:50_XREF WISDOT/CADDS SHEET 42

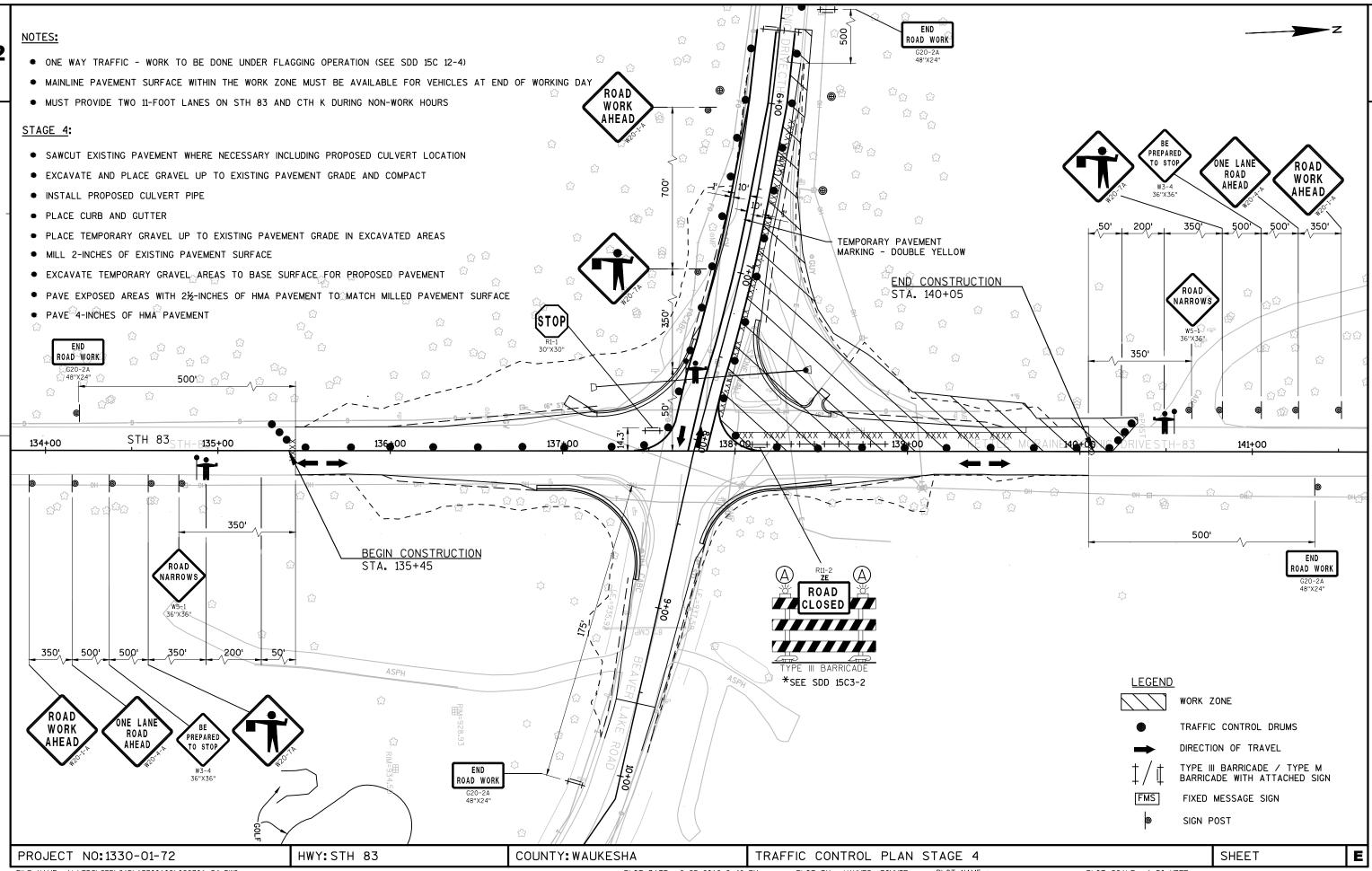


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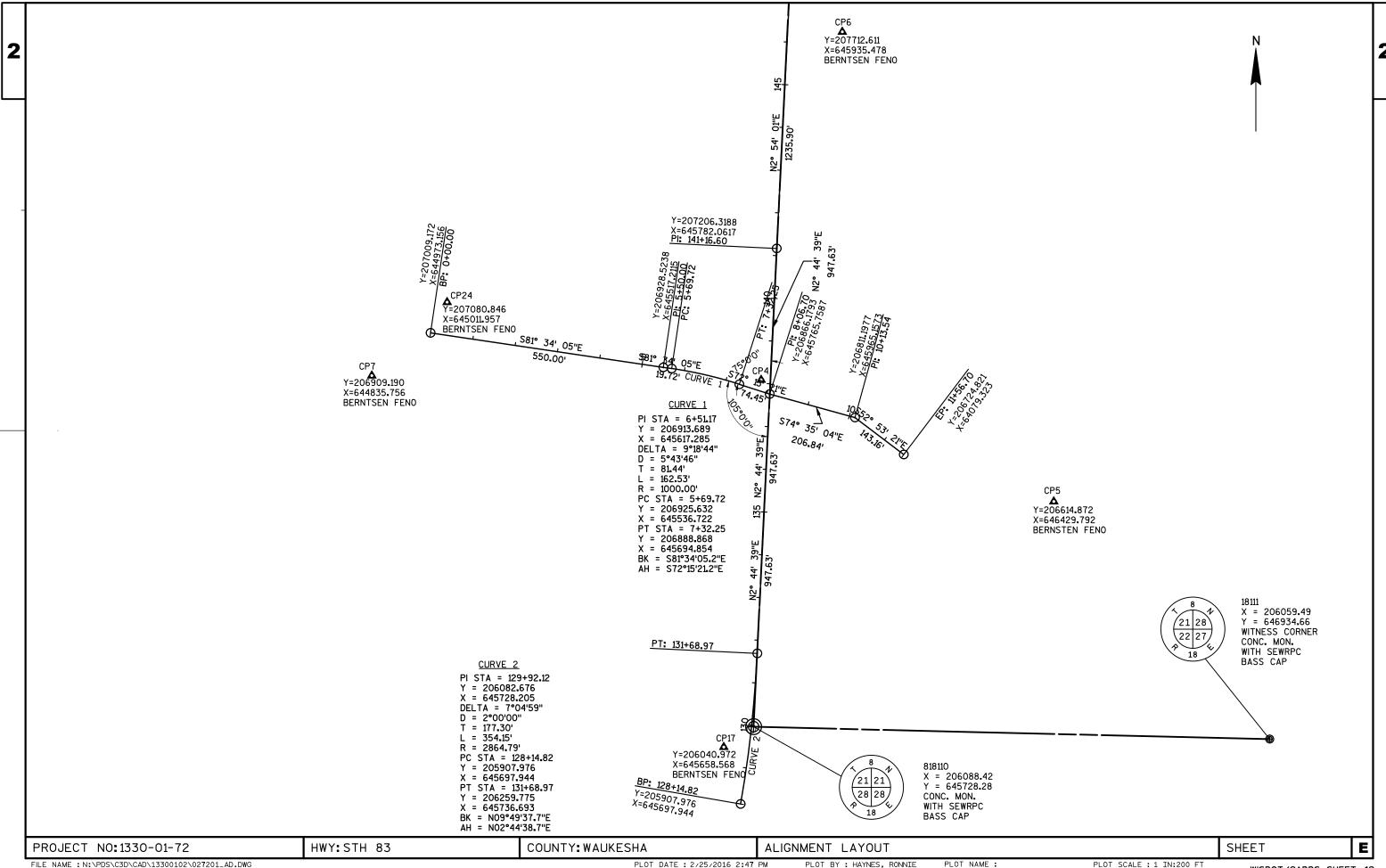


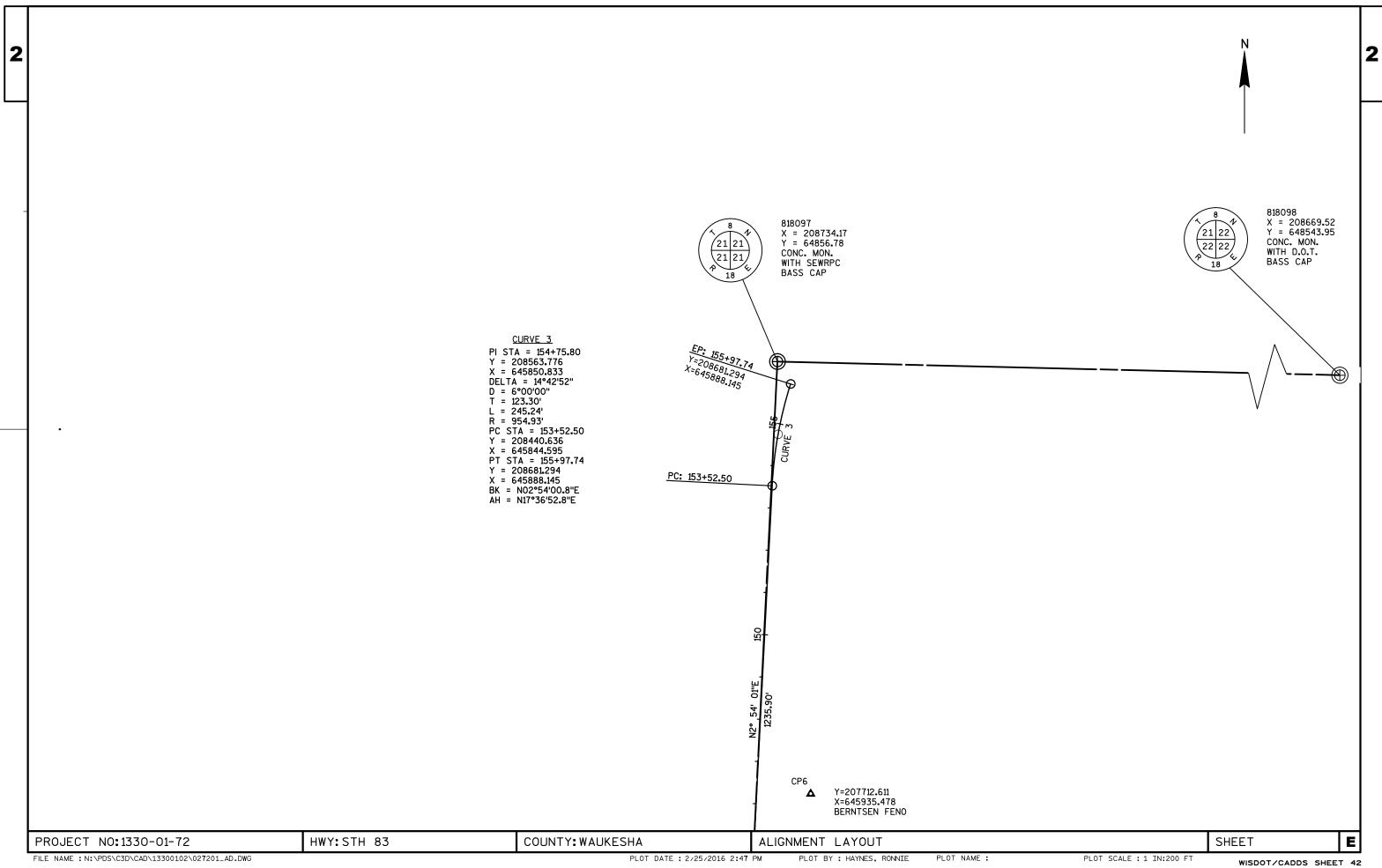
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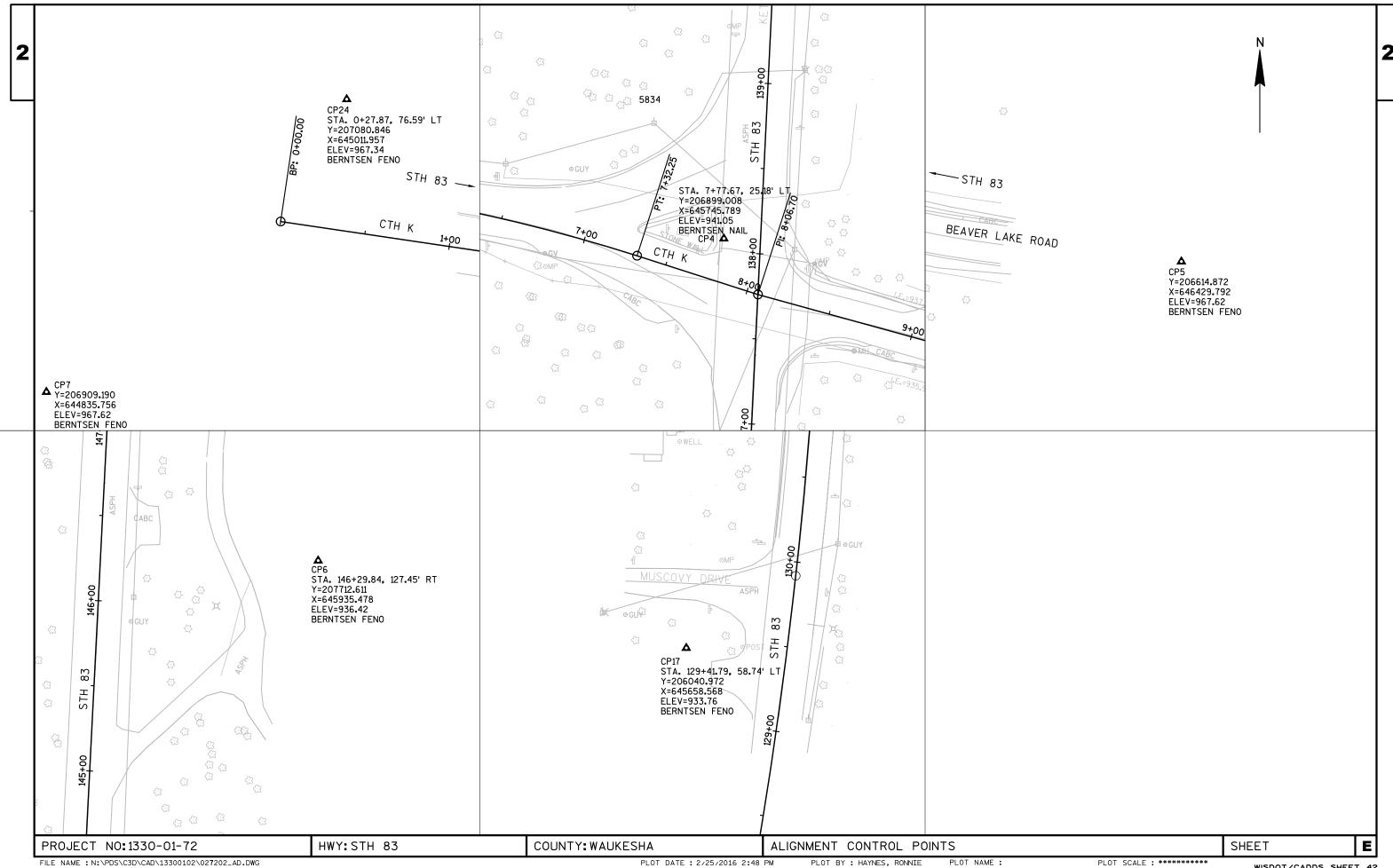
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PLOT BY: HAYNES, RONNIE
PLOT NAME:
PLOT SCALE: 1:50_XREF
WISDOT/CADDS SHEET 42



FILE NAME: N:\PDS\C3D\CAD\13300102\026301_S4.DWG PLOT BY: HAYNES, RONNIE PLOT NAME: PLOT SCALE: 1:50_XREF WISDOT/CADDS SHEET 42



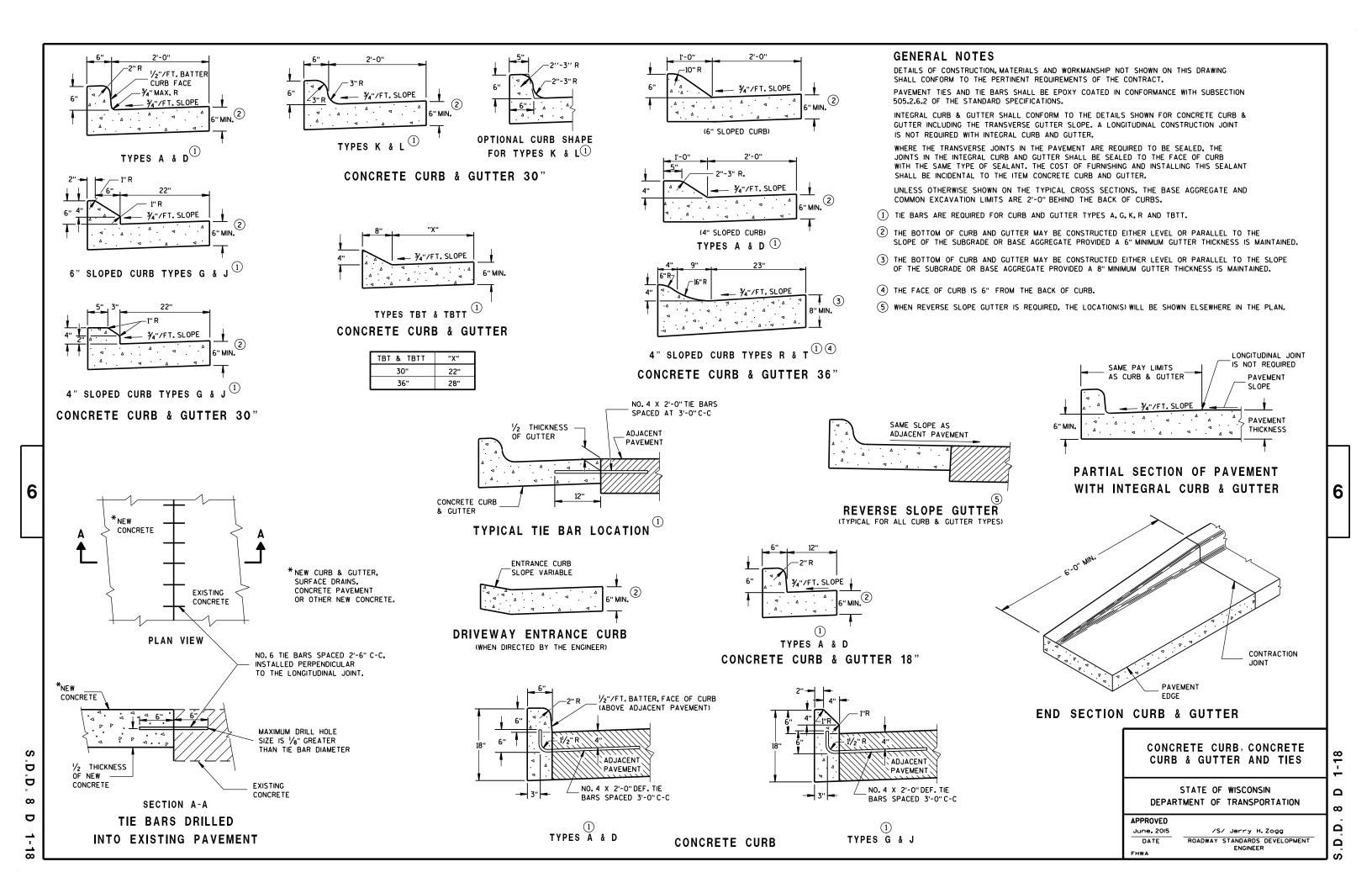


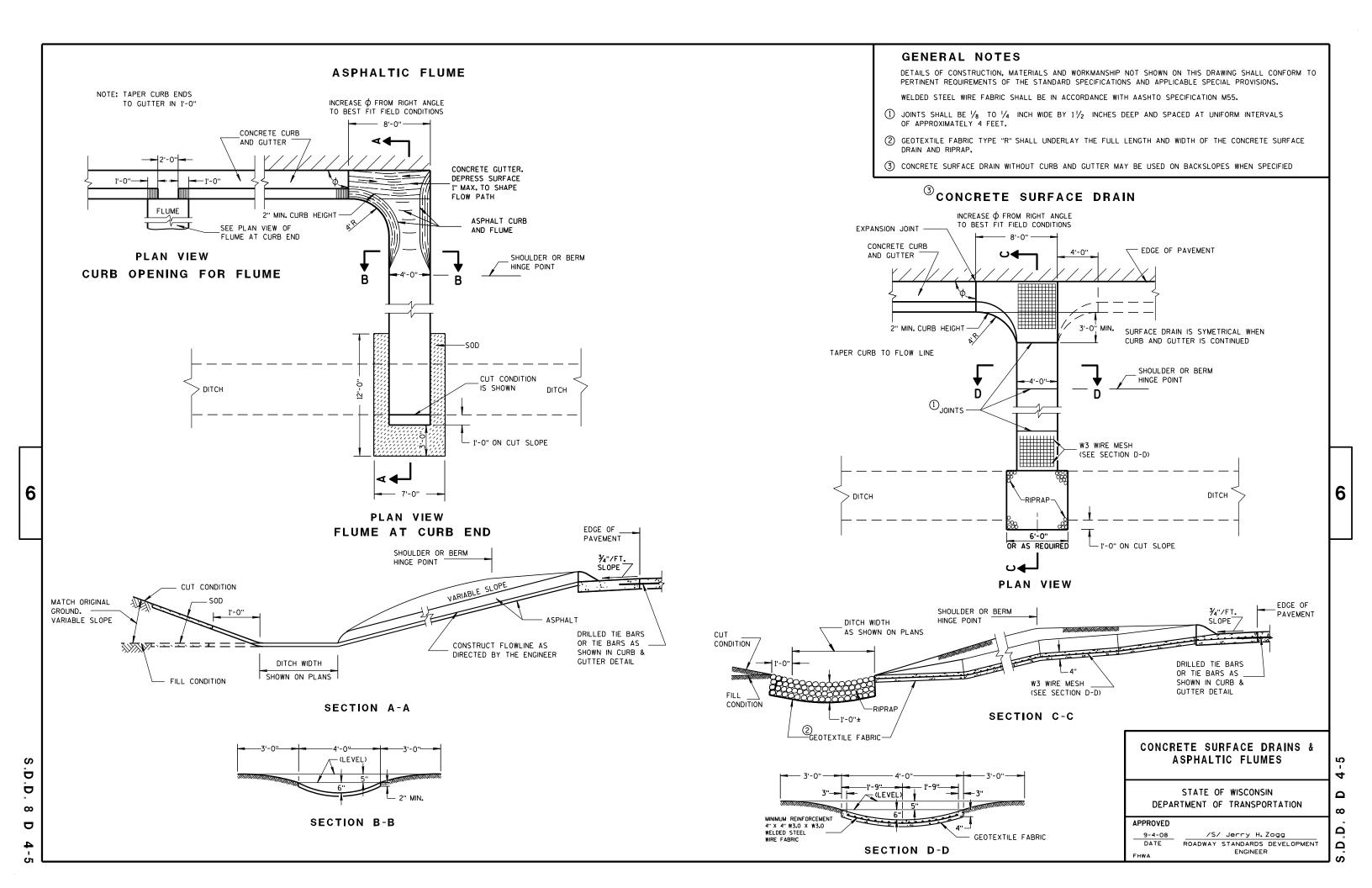


DATE 17	MAR16	E S	тімат	E OF QUAN	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	1330-01-72 QUANTI TY
0010	201. 0105	Clearing	STA	14.000	14. 000
0020 0030	201. 0220 204. 0125	Grubbing Removing Asphaltic Surface Milling	I D TON	513. 000 207. 000	513. 000 207. 000
0040	205. 0100	Excavation Common	CY	1, 202. 160	1, 202. 160
0050	209. 0100	Backfill Granular	CY	25. 000	25. 000
0060	213. 0100	Finishing Roadway (project) 01. 1330-01-72	EACH	1. 000	1. 000
0070	305. 0110	Base Aggregate Dense 3/4-Inch	TON	104. 000	104.000
0800	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	564. 000	564. 000
0090 0100	416. 1010 455. 0605	Concrete Surface Drains Tack Coat	CY GAL	8. 000 428. 000	8. 000 428. 000
0110 0120	460. 2000 460. 5223	Incentive Density HMA Pavement HMA Pavement 3 LT 58-28 S	DOL TON	570. 000 567. 000	570. 000 567. 000
0130	460. 5224	HMA Pavement 4 LT 58-28 S	TON	309.000	309. 000
0140	522. 0312	Culvert Pipe Reinforced Concrete Class IV 12-Inch	LF	122. 000	122. 000
0150	522. 1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2. 000	2. 000
0160	601. 0557	Concrete Curb & Gutter 6-Inch Sloped	LF	350.000	350. 000
0170	606. 0100	36-Inch Type D Riprap Light	CY	15. 000	15. 000
0170	619. 1000	Mobilization	EACH	1.000	1. 000
0190	624. 0100	Water	MGAL	35.000	35. 000
0200	625. 0500	Sal vaged Topsoi I	SY	472. 000	472. 000
0210	628. 1104	Erosi on Balles	EACH	4.000	4. 000
0220 0230	628. 1504 628. 1520	Silt Fence Silt Fence Maintenance	LF LF	426. 000 426. 000	426. 000 426. 000
0230	628. 2004	Erosion Mat Class I Type B	SY	472. 000	472. 000
0250	628. 7555	Cul vert Pi pe Checks	EACH	1. 000	1. 000
0260	629. 0205	Fertilizer Type A	CWT	0. 300	0. 300
0270	630. 0130	Seeding Mixture No. 30	LB	7.000	7. 000
0280 0290	630. 0140 630. 0200	Seeding Mixture No. 40 Seeding Temporary	LB LB	15. 000 7. 000	15. 000 7. 000
0300	634. 0618	Posts Wood 4x6-Inch X 18-FT	EACH	35. 000	35. 000
0310	634. 0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	1. 000	1. 000
0320	637. 2210	Signs Type II Reflective H	SF	259. 860	259. 860
0330	637. 2230 638. 2102	Signs Type II Reflective F Moving Signs Type II	SF EACH	44. 250 4. 000	44. 250 4. 000
0340 0350	638. 2602	Removing Signs Type II	EACH	24. 000	24. 000
0360	638. 3000	Removing Small Sign Supports	EACH	24. 000	24. 000
0370	642. 5001	Field Office Type B	EACH	1.000	1. 000
0380	643. 0200	Traffic Control Surveillance and Maintenance (project) 01. 1330-01-72	DAY	44. 000	44. 000
0390	643. 0300	Traffic Control Drums	DAY	2, 420. 000	2, 420. 000
0400	643. 0420	Traffic Control Barricades Type III	DAY	516. 000	516. 000
0410	643. 0705	Traffic Control Warning Lights Type A	DAY	176. 000	176. 000
0420	643. 1000 643. 1050	Traffic Control Signs Fixed Message	SF	60. 000 10. 000	60. 000 10. 000
0430 0440	643. 1050 645. 0130	Traffic Control Signs PCMS Geotextile Fabric Type R	DAY SY	10. 000 15. 000	10. 000 15. 000
0450	646. 0600	Removing Pavement Markings	LF	445. 000	445. 000
0460	646. 2304. S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	2, 922. 000	2, 922. 000
0470	649. 0400	Temporary Pavement Marking Removable	LF	1, 650. 000	1, 650. 000
0480	650. 5000	Tape 4-Inch Construction Staking Base	LF	1, 100. 000	1, 100. 000
- · - -				,	,

Standard Detail Drawing List

08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
14B29-01	SAFETY EDGE
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-03	BARRI CADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS





GENERAL NOTES

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

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



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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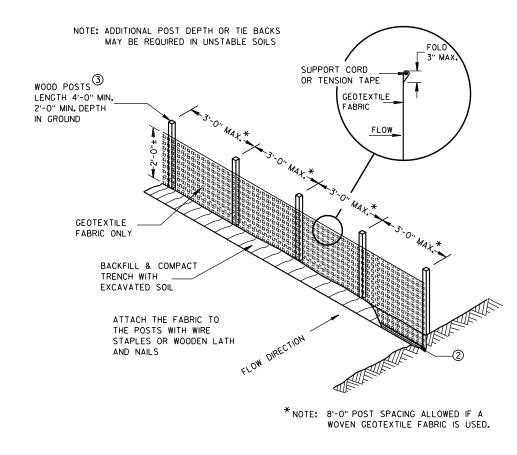
TYPICAL APPLICATION OF SILT FENCE

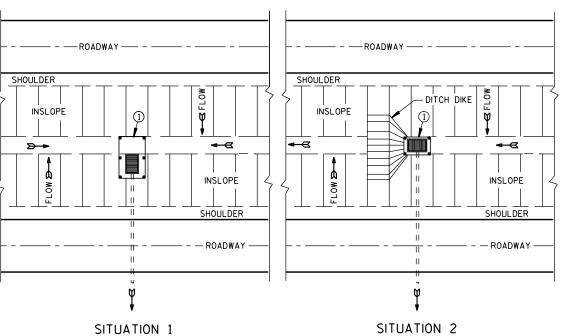
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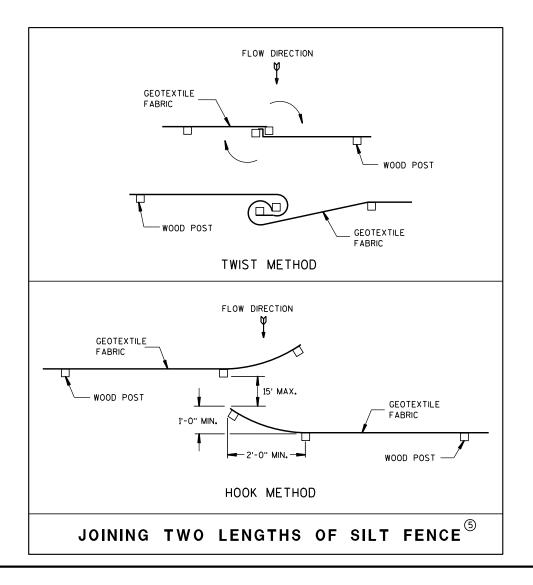
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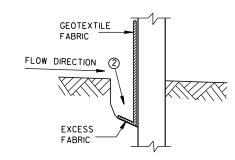
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



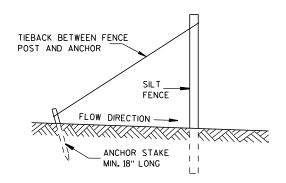
GENERAL NOTES

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.

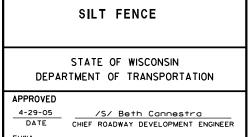


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

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METAL APRON ENDWALLS											
PIPE	MIN. 1	THICK.			DIMENS	SIONS (I	nches)			APPROX.	
DIA.	(Incl		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			DIM	ENSIONS	(Inches)			APPROX.		
DIA.	T	A	В	С	D	Ε	G	SLOPE		
12	2	4	24	48 1/8	721/8	24	2	3 to 1		
15	21/4	6	27	46	73	30	21/4	3 to 1		
18	21/2	9	27	46	73	36	21/2	3 to 1		
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1		
24	3	91/2	431/2	30	731/2	48	3	3 to 1		
27	31/4	101/2	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

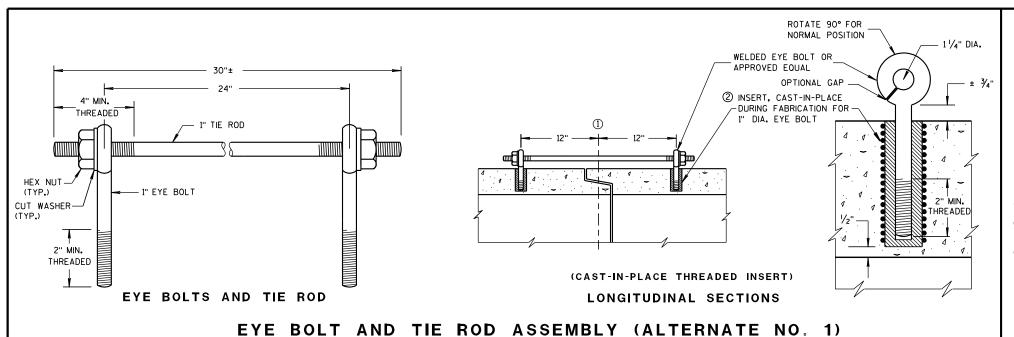
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES.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

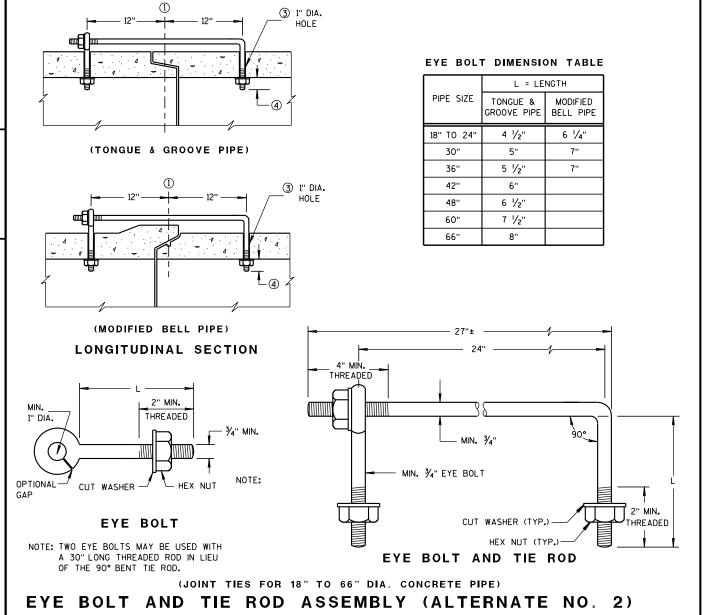
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

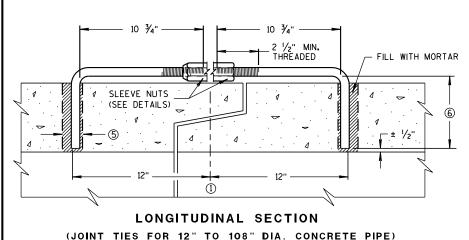


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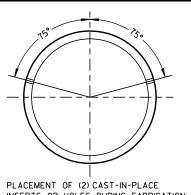
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ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS**

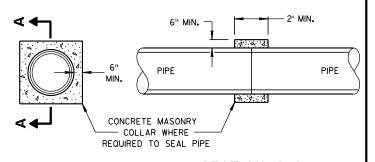


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

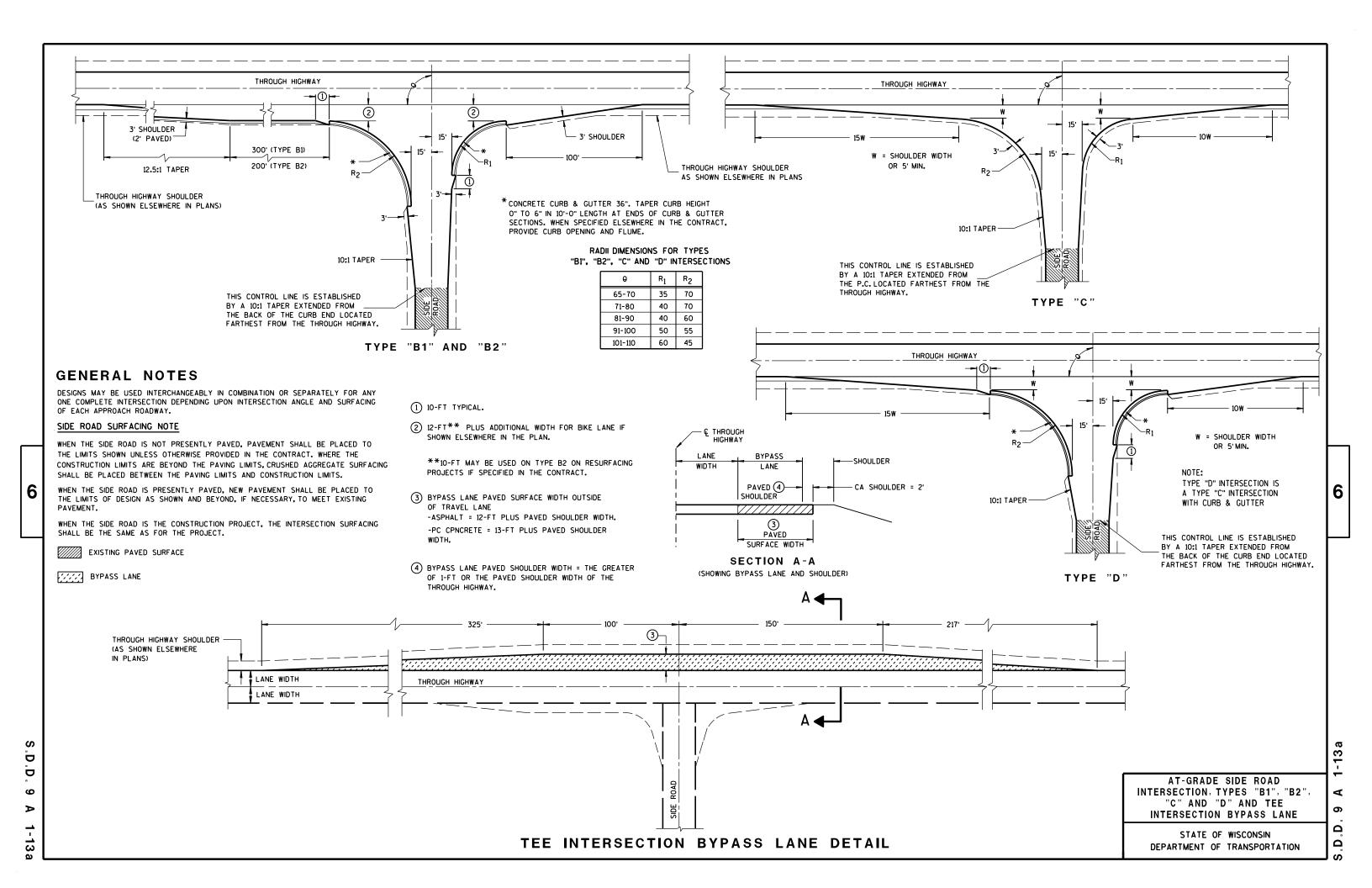
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

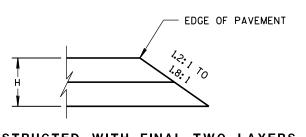
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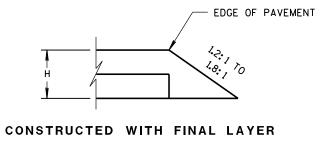
/S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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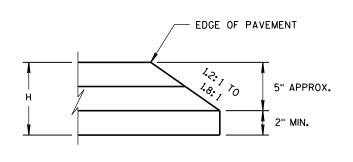


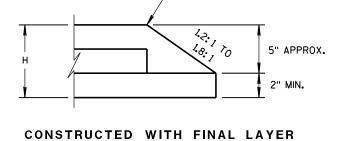


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





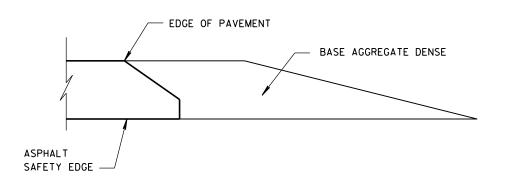
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)

M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

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

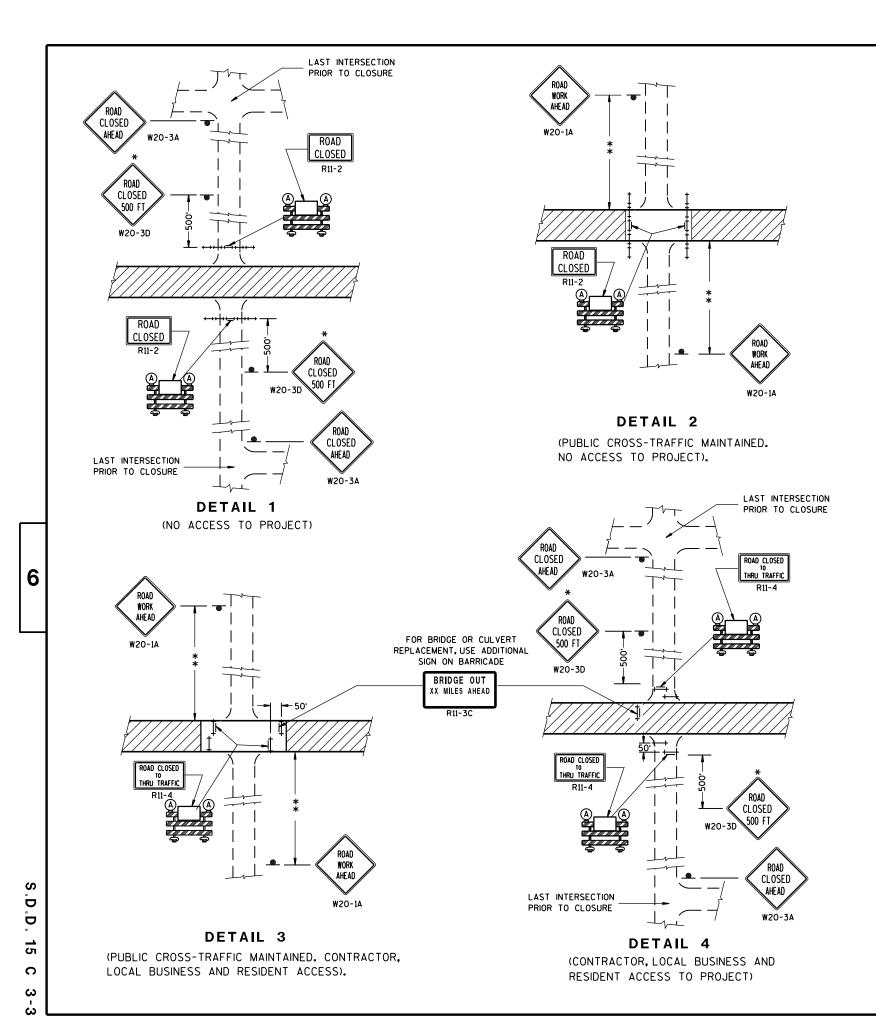
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

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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

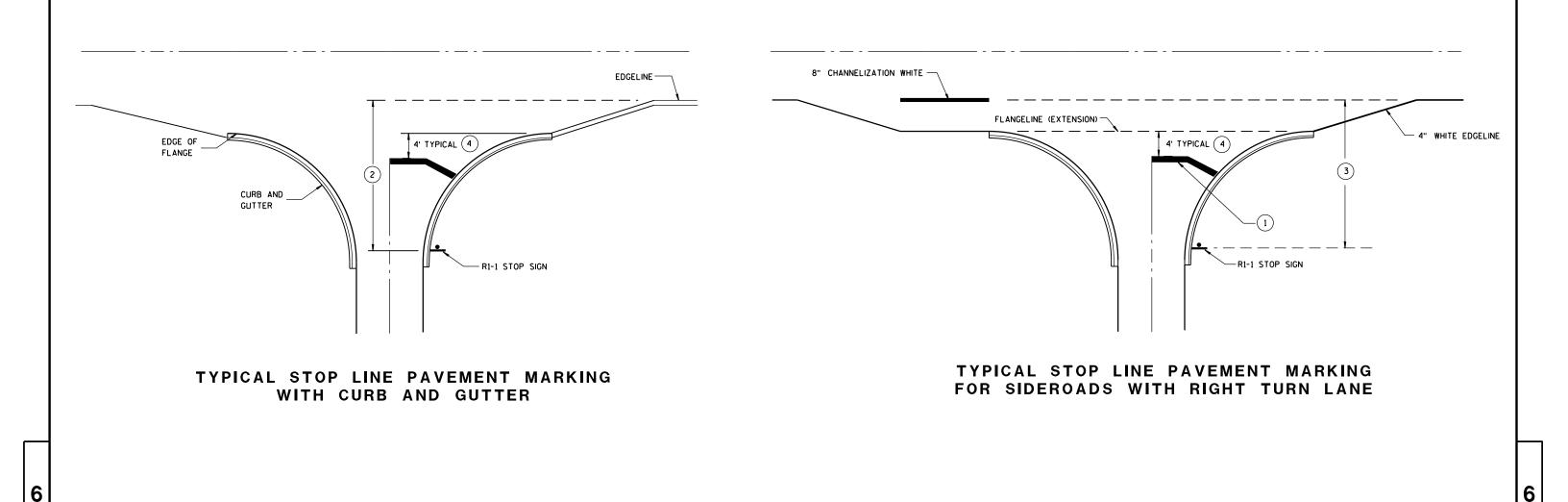
DATE
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

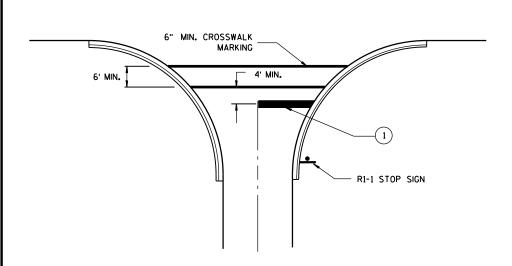
S.D.D. 15 C 3



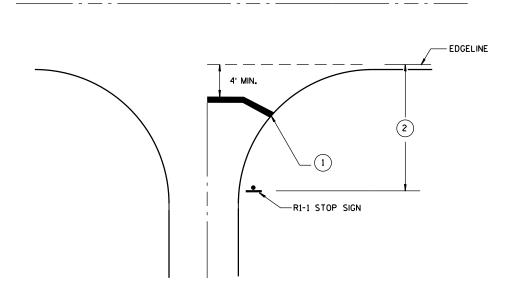








TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

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

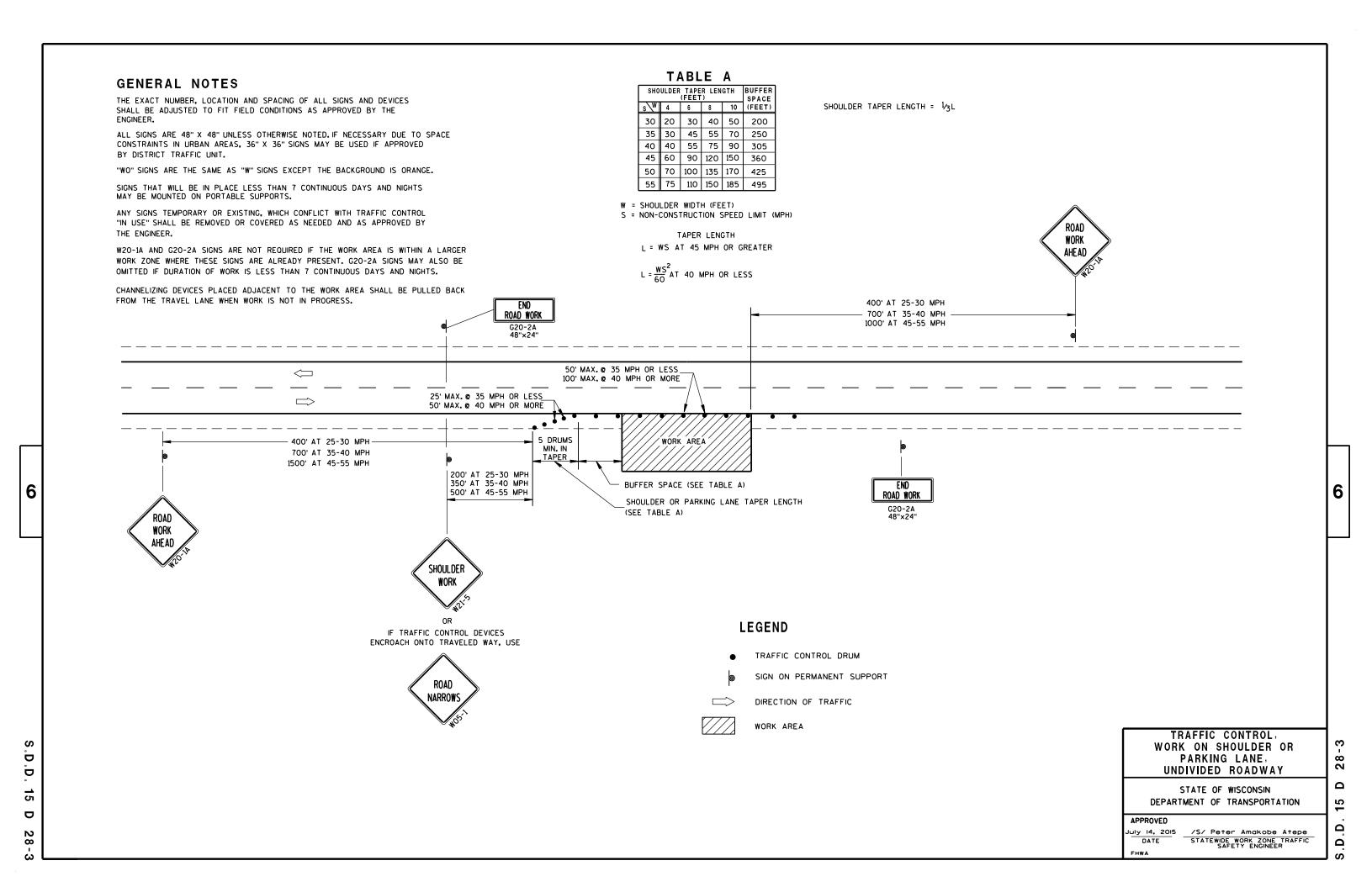
STOP LINE AND CROSSWALK PAVEMENT MARKING

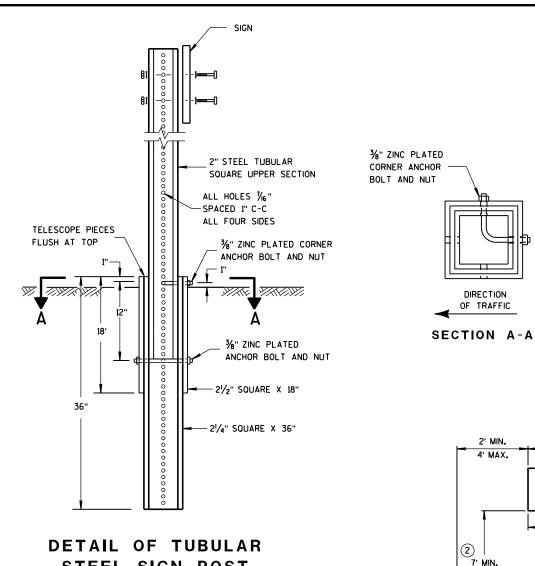
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

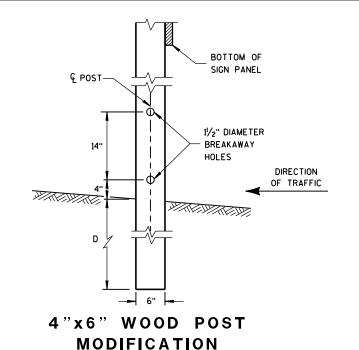
APPROVED	
4/30/2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER
FHWA	

.D.D. 15 C 33-1

S.D.D.







GENERAL NOTES

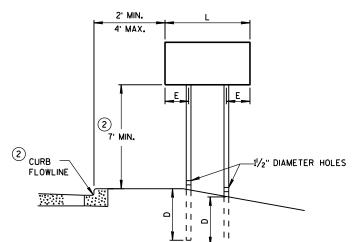
- (1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- (2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY 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. IF NO SIDEWALK AND NO PARKING,
 VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- (3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

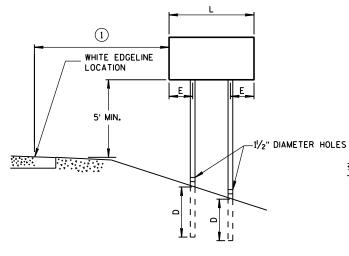
STEEL SIGN POST

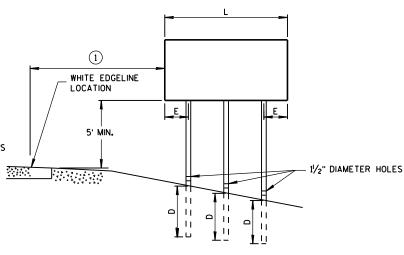
TUBULAR STEEL POSTS

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

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







URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

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

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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DATE 17 LINE	MAR16	E S	TIMAT	E OF QUAN	T I T I E S 1330-01-72
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTI TY
0490	650. 5500	Construction Staking Curb Gutter and Curb & Gutter	LF	350. 000	350. 000
0500	650. 6000	Construction Staking Pipe Culverts	EACH	1. 000	1. 000
0510	650. 9910	Construction Staking Supplemental Control (project) 01. 1330-01-72	LS	1. 000	1. 000
0520	650. 9920	Construction Staking Slope Stakes	LF	1, 100. 000	1, 100. 000
0530	690. 0150	Sawi ng Asphal t	LF	1, 274. 000	1, 274. 000
0540	690. 0250	Sawing Concrete	LF	48. 000	48. 000
0550	SPV. 0060	Special 01. Furnish and Deliver Trees	EACH	8. 000	8. 000
		Spruce, 6-FT HT, Black Hills, B&B			
0560	SPV. 0060	Special O2. Furnish and Deliver Trees Spruce, 6-FT HT, Norway, B&B	EACH	8. 000	8. 000
0570	SPV. 0060	Special 03. Furnish and Deliver Trees Spruce, 6-FT HT. White, B&B	EACH	9. 000	9. 000
0580	SPV. 0090	Special 01 Pavement Marking Grooved Preformed Thermoplastic Stop Line 18-Inch	LF	48. 000	48. 000

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Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/Un usable Pavement Material (4)	Available Material (5)	-	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Comment:
Division 1			Cut (2)	EBS Excavation (3)				Factor 1.25			
CTH K	06+00/09+57		508	0	0	508	8	9	499	499	
Division 1 Subtotal Division 2			508	0	0	508	8	9	499	499	
	06+00/139+87.37		694	0	0	694	84	105	589	589	
Division 2 Subtotal			694	0	0	694	84	105	589	589	
Grand Total			1,202.16	0.00	0.00	1,202.16	91.76	114.70	1,087.45	1,087.45	
		Total Co	mmon Exc	1,202.16							

¹⁾ Salvaged/Unsuable Pavement Material is included in Cut.

⁴⁾ Salvaged/Unusable Pavement Material is to be wasted

⁵⁾ Available Material = Cut - Salvaged/Unusuable Pavement Material

¹³⁾ Expanded Fill. Factor = 1.2

¹⁴⁾ The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

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ROADWAY	STATION	STATION	201.0105 CLEARING (STA)	201.0220 GRUBBING (ID)
STH 83	133+00	143+00	10	459
CTH K & BEAVER LAKE RD	6+00	10+00	4	54
TOTAL			14	513

REMOVALS

204.0125 REMOVING ASPHALTIC SURFACE MILLING (TON) ROADWAY STATION STATION STH 83 135+45 140+05 117 CTH K & BEAVER LAKE RD 5+75 90 9+80 TOTAL 207

BASE AGGREGATE ITEMS

ROADWAY	STATION	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON)	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (TON)
STH 83	135+45	140+05	63	278
CTH K & BEAVER LAKE RD	5+75	9+80	41	286
TOTAL			104	564

MISC CONCRETE ITEMS

ROADWAY	STATION	STATION	OFFSET	416.1010 CONCRETE SURFACE DRAINS (CY)
STH 83	137+00 138+40	137+20 138+55	20' LT 20' LT	3 5
TOTAL				8

PROJECT NO: 1330-01-72	HWY: STH 83	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES	SHEET:	E
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]		ROAL	DWAY	ST	ATION	STATION	455.0605 TAC COAT (GAL)		T3LT PAV	9.5224 HMA EMENT 4 LT 28 S (TON)		R	OADWAY	STATION	STATION	601.0557 CONCR AND GUTTER SLOPED 36-INC (LF)	6-INCH		
		STH	I 83	13	35+45	140+05	298	433		215		_	STH 83	136+85 RT	137+43.9 RT	96			
1	СТНК	(AND BE	AVER LAKE R	RD. 5	5+75	9+80	130	134		94				137+19.9 LT 137+77.9 RT	137+77.9 LT 138+55.6 RT	79 92			
		TO	ΓAL				428	567		309		_		138+12 LT	138+55.6 LT	83			
													TOTAL			350			
RESTO	RATION	N AND EF	ROSION CO	NTROL	ITEMS														
ROAD	WAY :	STATION	F		624.0100 WATER (MGAL)	BALES	N SILT FENCE	628.1520 SII FENCE MAINTENANO (LF)	SALVAGE) 628.2004 D EROSION MAT CLASS I TYPE B (SY)		629.0205 FERTILIZER TYPE A	MIXTURE	630.0130 SEEDING MIXTURE NO. 3 (LB) UNDISTRIBUTE	630.0200 0 SEEDING TEMPORARY (L D UNDISTRIBUTE	•	TREES	SPV.0060.03 FURNISH & DELIVER TREES SPRUCE, 6F1 HT, WHITE, B&B (EACH)	645.0130 T GEOTEXTILE FABRIC TYPE
STH	83	135+45	140+05	9	20	4	372	372	122	122	1	0.08	5	2	2	8	8	9	15
CTH BEAVEF RI	LAKE	5+75	9+80	6	15		54	54	350	350		0.22	10	5	5				
TOT				15	35	4	426	426	472	472	1	0.30	15	7	7	8	8	9	15
	TR	AFFIC CO	ONTROL															_	
		ROADW	/AY		CONTI PCI	50 TRAFFIC ROL SIGNS MS (DAY) STRIBUTED	AN MAINTE	TROL LLANCE ID 64 NANCE CO	3.0300 TRAF NTROL DRU (DAY)	FIC CON' IMS BARRICAD	TROL	643.0705 TRA CONTRO WARNING LIC TYPE A (DA	L CON	TROL SIGNS D MESSAGE	PAVEMENT R	649.0400 TEMPRORARY AVEMENT MARKING REMOVABLE TAPE 4- INCH (WHITE) (LF)	REMOVABLE TAPE	NG E 4-	
		STH 8	3						1672	25	52	176		30					
	ВІ	EAVER LA	KE RD						748	26	64			30	445	650	1000		
	El	NTIRE PR	OJECT			10	4	4											
	=	TOTA	L			10	4	4	2420	51	16	176		60	445	650	1000		
			-72			HWY: STH													E

CURB AND GUTTER

PAVEMENT ITEMS

ROADWAY	STATION	STATION	646.2304.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW) (LF)	646.2304.S PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE) (LF)	SPV.0090.01 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE 18-INCH (LF)
STH 83	134+45	140+05	932		
	134+45 LT	136+85 LT		146	
	134+45 RT	137+20 RT		179	
	138+55 LT	140+05 LT		153	
	138+55 RT	140+05 RT		152	
CTH K & BEAVER LAKE RD	5+60	7+82	442		
	8+31	9+95	326		
	5+60 LT	7+24 LT		165	
	5+60 RT	7+44 RT		182	
	8+58 LT	9+95 LT		138	
	8+87 RT	9+95 RT		107	
	7+75 LT	7+82 RT			25
	8+31 RT	8+37 LT			23
TOTAL			1700	1222	48
		ITEM# 646.2304S	TOTAL =	2922	-

PROJECT NO: 1330-01-72 HWY: STH 83 COUNTY: WAUKESHA MISCELLANEOUS QUANTITIES SHEET: **E**

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

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SHEET:

650.9910
CONSTRUCTION
STAKING

ROADWAY	STATION	STATION	650.5000 CONSTRUCTION STAKING BASE (LF)	SUPPLEMENTAL CONTROL (1330-01-72) (LS)	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER (LF)	650.6000 CONSTRUCTION STAKING PIPE CULVERTS (EACH)	650.9920 CONSTRUCTION STAKING SLOPE STAKES (LF)
STH 83	135+45	140+05	750		350	1	750
CTH K & BEAVER LAKE RD	5+75	9+80	350				350
ENTIRE PROJECT				1			
TOTAL			1100	1	350	1	1100

SAWING PAVEMENT								
ROADWAY	STATION	OFFSET	STATION	OFFSET	690.0150 SAWING ASPHALT (LF)	690.0250 SAWING CONCRETE (LF)		
STH 83	135+45	13.7' LT	134+45	14.1' RT	28			
	135+80	10.7' RT	137+62	11.0' RT	182			
	136+20	11.0'LT	137+68	11.3'LT	150			
	137+85	11.0'RT	139+03	11.0'RT	117			
	137+91	11.5'LT	139+69	11.0'LT	178			
	140+04	14.0'LT	140+05	13.8'LT	28			
CTH K & BEAVER LAKE RD	5+75	13.2' RT	5+75	13.9' LT	28			
	6+05	15.0' LT	7+91	13.0' RT	190			
	8+15	11.0' LT	9+00	12.0' LT	83			
	6+88'	10.0' RT	7+97	10.4'LT	110			
	8+20	11.0'RT	9+57	12.3' RT	137			
	9+20	15.7'LT	9+29	15.5'LT	9			
	9+37	30.5' RT	9+45	26.5' RT	10			
	9+81	13.7' RT	9+83	8.7' LT	24			
	7+56	12' RT	7+69	12' LT		24		
	7+61	12' RT	7+69	12'LT		24		
TOTAL					1274	48		

HWY: STH 83

PROJECT NO: 1330-01-72

CULVERT PIPE

-											
									522.0312	522.1012	2 09.0100
									CULVERT	APRON	BACKFILL
									PIPE	ENDWALLS	GRANULAR
									REINFORCED	FOR CULVERT	
									CONCRETE	IPE REINFORCE	
						INLET	DISCH		CLASS IV	CONCRETE	
	STRUCTURE		OFFSET	FROM	TO	INVERT	INVERT	SLOPE	12-INCH	12-INCH	CY
ROADWAY	NUMBER	STATION	FT	STR	STR	ELEV	ELEV		LF	EACH	
STH 83								_			
	1	137+19.49	37.178 LT	2	1	938.00	935.50	2.05%	122	1	
	2	138+40.94	47.099 LT							1	25
	TOTALS								122	2	25

NOTES

- 1) JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL CONCRETE APRON ENDWALLS. APRON ENDWALLS SHALL BE TIED FOR THE LAST THREE JOINTS AT PIPE ENDS. THE COST OF THESE TIES SHALL BE INCIDENTAL TO THE COST OF THE PIPE.
- 2) STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS.
- 3) PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES.

MISCELLANEOUS QUANTITIES

FILE NAME :______ PLOT DATE :_____ PLOT BY :_____ PLOT NAME :_____ PLOT SCALE : 1:1

COUNTY: WAUKESHA

2
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1330-01-72 STH 83

						637.2210	637.2230	638.2602	638.3000	638.2102	634.0618	634.0816		1330-01-72 51H
						SIGNS	SIGNS	REM	REM	MOVING		POSTS		
	SIGN			SIGN		TYPE II	TYPE II	SIGNS	SMALL	SIGNS	WOOD	TUBULAR	MOUNT	
SIGN	CODE	SIGN		SIZE		REFLECTIVE	RELFECTIVE	TYPE	SIGN	TYPE	POSTS	STEEL	ON SAME	
NO.	& SIZE	MESSAGE	W	Х	Н	Н	F	II	SUP	II	4" X 6" X 18'	2" X 2" X 16'	POST AS	
			[IN.]	х	[IN.]	[SF]	[SF]	[EA]	[EA]	[EA]	[EA]	[EA]	SIGN#	REMARKS / NEW SIGN LOCATION
1	W1-7 (2S)	NIGHT ARROW DOUBLE	48	Х	24		8.000				1			
2		SPEED LIMIT 35	24	X	30	5.000	0.000				1			
3	R7-1D (2S)	NO PARKING ANY TIME DOUBL	18	X	24	3.000					1			
4	J1-2 (2S)	INOT ARRING ART TIME DOODL	48	X	39	13.000					1			
7	M2-1	JUNCTION	21	X	15	10.000					'			
	M1-5A	СТНК	24	X	24									
	MK2-1	JUNCTION - GREEN	21	X	15									
	M1-97	KETTLE MORAINE SCENIC DRIV	24	X	24									
5	D1-61	[A] KETTLE MORAINE	96	X	54	36.000					2			
		SCENIC DR												
		BEAVER LAKE [A]												
		RD												
6	NOT USED													
7	W2-2 (2S)	SIDE ROAD (90 DEGREE)	30	Χ	30		6.250				1			
8	R7-1D (2S)	NO PARKING ANY TIME DOUBL	18	Χ	24	3.000					1			
9	R2-1 (2S)	SPEED LIMIT 35	24	Χ	30	5.000					1			
10	J3-2 (2S)		48	Х	45	15.000					1			
	M1-5A	СТН К	24	Χ	24									
	M6-1	ARROW LEFT	21	Χ	21									
	M1-97	KETTLE MORAINE SCENIC DRIV	24	Χ	24									
	MK6-6	ARROW LEFT/ARROW UP - GR	21	Χ	21									
11	NOT USED													
12	J3-3 (2S)		72	Χ	45	22.500					2			
	M1-6	STH 83	24	Χ	24									
	M6-4	ARROWS LEFT & RIGHT	21	Χ	21									
	M1-97	KETTLE MORAINE SCENIC DRIV	24	Χ	24									
	MK6-1	ARROW LEFT - GREEN	21	Χ	21									
	M1-5A	СТН К	24	Χ	24									
	M6-1	ARROW RIGHT	21	Х	21									

PLOT DATE :18-AUG-2015

SHEET: 1 OF 3

SHEET:

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PROJECT NO:1330-01-72 HWY: STH 83 FILE NAME : N:\SPO\Operations\Signing\Miscellaneous Quantities\1330-01-72\030502_mq.pptx

TYPE I&II PERMANENT SIGNING -

COUNTY: WAUKESHA

PLOT BY : mscjzb

PLOT NAME: 030502_mq.pdf

MISCELLANEOUS QUANTITIES - PERMANENT SIGNING

PLOT SCALE : 1:1

3

						637.2210	637.2230	638.2602	638.3000	638.2102	634.0618	634.0816		1330-01-72 STH 8
						SIGNS	SIGNS	REM	REM	MOVING		POSTS		
	SIGN			SIGN		TYPE II	TYPE II	SIGNS	SMALL	SIGNS	WOOD	TUBULAR	MOUNT	
SIGN	CODE	SIGN		SIZE		REFLECTIVE	RELFECTIVE	TYPE	SIGN	TYPE	POSTS	STEEL	ON SAME	
NO.	& SIZE	MESSAGE	W	X	Н	Н	F	II	SUP	II	4" X 6" X 18'	2" X 2" X 16'	POST AS	
			[IN.]	Х	[IN.]	[SF]	[SF]	[EA]	[EA]	[EA]	[EA]	[EA]	SIGN#	REMARKS / NEW SIGN LOCATION
13	R1-1 (2S)	STOP	30	X	30	5.180					1			
14	R1-1 (2S)	STOP	30	Χ	30	5.180					1			
15	R2-1 (2S)	SPEED LIMIT 35	24	Χ	30	5.000					1			
16	J4-2 (2S)		48	Х	36	12.000					1			
	M3-1	NORTH	24	Χ	12									
	M1-6	STH 83	24	Χ	24									
	M1-97	KETTLE MORAINE SCENIC DRIV	24	Χ	24									
17	J3-2 (2S)		48	Х	45	15.000					1			
	M1-5A	СТН К	24	Χ	24									
	M6-1	ARROW UP/ARROW RIGHT	21	Χ	21									
	M1-97	KETTLE MORAINE SCENIC DRIV	24	Χ	24									
	MK6-6	ARROW RIGHT - GREEN	21	Χ	21									
18	NOT USED													
19	D1-61	[A] BEAVER LAKE	96	Х	54	36.000					2			
		RD												
		KETTLE MORAINE [A]												
		SCENIC DR												
20	J1-2 (2S)		48	Χ	39	13.000					1			
	M2-1	JUNCTION	21	Χ	15									
	M1-5A	СТН К	24	Χ	24									
	MK2-1	JUNCTION - GREEN	21	Χ	15									
	M1-97	KETTLE MORAINE SCENIC DRIV	24	Х	24									
21	R2-1 (2S)	SPEED LIMIT 35	24	Χ	30	5.000					1			
22	R2-1 (2S)	SPEED LIMIT 35	24	Χ	30	5.000					1			
23	R7-1D (2S)	NO PARKING ANY TIME DOUBL	18	Χ	24	3.000					1			
24	W14-3 (2S)	NO PASSING ZONE	48	X	36		6.000				1			
25	W14-3 (2S)	NO PASSING ZONE	48	Χ	36		6.000				1			

SHEET: 2 OF 3

SHEET:

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FILE NAME : N:\SPO\Operations\Signing\Miscellaneous Quantities\1330-01-72\030502_mq.pptx

HWY: STH 83

PROJECT NO:1330-01-72

COUNTY: WAUKESHA

PLOT DATE :18-AUG-2015

PLOT NAME: 030502_mq.pdf

MISCELLANEOUS QUANTITIES - PERMANENT SIGNING

PLOT SCALE: 1:1

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TYPE I&II PERMANENT SIGNING -1330-01-72 STH 83 637.2210 637.2230 638.2602 638.3000 638.2102 634.0618 634.0816 SIGNS SIGNS REM REM MOVING POSTS SIGN SIGN TYPE II TYPE II SIGNS SIGNS WOOD **MOUNT SMALL** TUBULAR SIGN CODE SIZE TYPE SIGN TYPE POSTS STEEL ON SAME SIGN REFLECTIVE | RELFECTIVE 2" X 2" X 16' **POST AS** NO. & SIZE W Н SUP 4" X 6" X 18' Ш Ш Х **MESSAGE** [SF] SIGN # REMARKS / NEW SIGN LOCATION [IN.] [IN.] [SF] [EA] [EA] [EA] [EA] [EA] Х R7-52D (2S) NO PARKING BETWEEN SIGNS 18 Χ 24 3.000 1 27 R7-52D (2S) NO PARKING BETWEEN SIGNS 18 Χ 24 3.000 28 STOP AHEAD W3-1 (2S) 36 Χ 36 9.000 Χ 36 W3-1 (2S) ISTOP AHEAD 36 9.000 1 30 R7-52R (2S) NO PARKING BETWEEN SIGNS 18 Χ 24 3.000 1 R2-1 (2S) 31 SPEED LIMIT 35 24 Х 30 5.000 28 32 W11-3 DEER CROSSING 1 MOVE THE W57-52 ALSO 1 CTH K 33 M1-5A (2S) 24 Χ 24 4.000 NO PARKING BETWEEN SIGNS Χ 34 R7-52L (2S) 18 24 3.000 35 W11-11 (MOD) GOLF CART CROSSING CAUTION 1 REUSE STEEL POST 36 W11-11 (MOD) GOLF CART CROSSING CAUTION REUSE STEEL POST NO THRU TRUCKING OVER 5 TONS 37 1 REUSE STEEL POST SPEED LIMIT 25 38 30 R2-1 (2S) Χ 5.000 1 48 Χ 36 39 J4-2 (2S) 12.000 1 SOUTH M3-3 Χ 12 24 M1-6 STH 83 24 Χ 24 M1-97 KETTLE MORAINE SCENIC DRI Χ 24 24 J3-2 (2S) 48 Χ 45 15.000 1 STH 83 Χ M1-6 24 24 M6-4 ARROWS LEFT & RIGHT Х 21 21 CTH K 24 M1-5A 24 Χ ARROW UP M6-1 21 X 21 UNDISTRIBUTED

SHEET: 3 OF 3

PROJECT NO:1330-01-72 HWY: STH 83 COUNTY: WAUKESHA MISCELLANEOUS QUANTITIES – PERMANENT SIGNING SHEET: **E**

0

0

TOTALS

259.860

44.250

			638 3603	638 3000	
			638.2602	638.3000	
				REM	
			REM	SMALL	
SIGN	SIGN	OLON	SIGNS	SIGN	
NO.	CODE	SIGN	TYPE II	SUP	
110.	JOBE	MESSAGE	[EA]	[EA]	REMARKS / NEW SIGN LOCATION
			[2,4]	[=, 1]	The mount of the transfer of t
1R	W1-7		1	1	
2R	R2-1	_	1	1	REMOVE THE R7-1D ALSO
3R	J1-2	_	1	1	
4R	W2-2	_	1	1	
5R	R2-1		1	1	REMOVE THE R7-1D ALSO
6R	J3-2		1	1	
7R	R1-1		1	1	
8R	R1-1		1	1	
9R	R1-1		1	1	
10R	R1-1		1	1	
11R	J3-3		1	1	
12R	R2-1	_	1	1	REMOVE THE M1-97 ALSO
13R	J3-2	_	1	1	
14R	R2-1	_	1	1	REMOVE THE R7-1D ALSO
15R	R2-1	_	1	1	
16R	W14-3		1	1	
17R	W14-3	_	1	1	
18R	J1-2		1	1	
19R	R7-52D		1	1	
20R	R7-52D		1	1	
21R	R2-1	-	1	1	
22R	R7-52R	_	1	1	
23R	M1-5A		1	1	REMOVE THE R7-52L ALSO
24R	R2-1	_	1	1	
OTALS	-		24	24	

SHEET: 1 OF 1

Е

FILE NAME : N:\SPO\Operations\Signing\Miscellaneous Quantities\1330-01-72\030501_mq.pptx

HWY: STH 83

PROJECT NO:1330-01-72

PLOT DATE: 17-AUG-2015

COUNTY: WAUKESHA

PLOT BY : mscjzb

PLOT NAME: 030501_mq.pdf

PLOT SCALE : 1:1

SHEET:

MISCELLANEOUS QUANTITIES – SIGNING REMOVAL

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION

HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.

2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

4

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM. WAUKESHA COUNTY ZONE, NAD83 (2007) ADJUSTMENT IN US SURVEY FEET. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED FASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WALKESHA.

SCHE	DULE OF LANDS & INTERESTS	S REQUIRED		IES ARE SHOWN FO CHANGE PRIOR TO			
PA RCEL		INTEREST REQUIRED	R/W REQUIRED A CRES			T.L.E. TEMP.	P.L.E. PERM.
NUMBER	OWNER		NEW	EXISTING	TOTAL	ACRES	ACRES
1	GREGORY BUDZIEN & KATHLEEN FERSCHINGER-BUDZIEN	FEE,TLE	0.000	0.247	0.247	0.033	
2	CHENEQUA COUNTRY CLUB	FEE,TLE	0.001	0.349	0.350	0.096	
UTILITY NUMBER							
50	WE ENERGIES ELECTRIC	ROR		_			

VILLAGE LOCATION MAP NOT TO SCALE T-8-N Chenedua R CTH K PI STA = 6+51.17 Y = 206913.69 X = 645617.29PC STA = 5+69.72 PT STA = 7+32.25 L = 162.53' R = 1000.00'DFI TA = 9°18'44" D = 5°43'46" T = 81.44' LC = 162.35' LCB = \$76°54'43"E VILLAGE THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS CONVENTIONAL UTILITY SYMBOLS WATER

CURVE C1 PRW154) 135+50.00 L=171.59' R=157.99' LCH=163,28 33' LCB=N28°18'50"W TO SEC. LINE 818110 Y=206088-42 X=645728.28 CONC. MON. 28 28 WITH SEWRPC BRASS CAF 50 100 SCALE, FEET BASIS OF EXISTING R/W WIDTH YEAR STH 83 TOWN ROAD RECORD V.1, P.6 66' 1850 STH 83 DOC. 123410 VARIES | 1922 STH 83 DOC. 122999 VARIES | 1922 CTH K TOWN ROAD RECORD V.1. P.4 66' 1849 NO RECORD OF CONVEYANCE CTH K VARIES BEAVER LAKE ROAD TOWN ROAD RECORD V.1, P.11

818097 Y=208734.17

STH 83 137+76.07=

PI: 8+06.70 Y=206866.18 X=645765.76

CTH K/BEAVER LAKE ROAD

TLE SLOPES-

0 F

X=645856.78

WITH SEWRPC BRASS CAP

END RELOCATION ORDER

PI: 141+16.60

X=645782.06

0 F

EXISTING

PRW156 136+23.92 32.80'

66' 1851

Mau.00,00,00.06N

33' T0

LINE

SE1/4-SW1/4

CONC. MON.

4147030 REGISTER OF DEEDS WAUKESHA COUNTY, WI RECORDED ON

June 12, 2015 09:30 AM James R Behrend Register of Deeds

Book 1 Page 179-179

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 1330-01-22 4.01 AMENDMENT NO:__

4

SW1/4-SE1/4

139+15.17 33.38'.43.38'

33' T0

SEC.

LINE

SEC. LINE

140+00.00 PRW155

CHENEQUA

TLE SLOPES

WE ENERGIES ELECTRIC

50) DOC. 3555144 PCL. 2

138+00.16 43.31'

BEAVER LAKE ROAD 8+07.00=

Ÿ 33

(PRW151)

-TLE SLOPES

135+50.00 33.15'.48.15' PRW153 CHENEQUA

BEGIN RELOCATION ORDER STA. 135+00 Y=645752.54

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

I, WALTER C. ZENDEK PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84,095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

VALTER C ZENDEK S-2965

SIGNATURE: Walte, C. 29ndel DATE: 6/1/15 PRINT NAME: WALTER C. ZENDEK REGISTRATION NUMBER:S-2965

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOLITHEAST REGION SIGNATURE: Polat & Doffice DATE: 6/1/15

PRINT NAME: ROBERT L. DUFFECK

CONVENTIONAL ABBREVIATIONS RELEASE OF RIGHTS

TANGENT

ACCESS POINT/ DRIVEWAY CONNECTION REMATRITUG RFM. ACCESS RIGHTS RIGHT-OF-WAY R/W ACRES AND OTHERS STATION STA CENTERI THE TEMPORARY LIMITED FASEMENT TLE CERTIFIED SURVEY MAP CSM VOLUME CORNER DOCUMENT CURVE DATA FASEMENT FASE. LONG CHORD HIGHWAY EASEMENT H.E. LAND CONTRACT

LONG CHORD BEARING LCB RADIUS MON. DEGREE OF CURVE CENTRAL ANGLE OR DELTA DFI TA PERMANENT LIMITED EASEMENT PLE LENGTH OF CURVE

SIGN SECTION CORNER MONUMENT SECTION CORNER SYMBOL FFF (HATCH VARTES) TEMPORARY LIMITED EASEMENT PERMANENT LIMITED FASEMENT R/W BOUNDARY POINT

PARCEL NUMBER

SIGN NUMBER (OFF PREMISE)

BUILDING

FOUND IRON PIPE/PIN

R/W MONUMENT

R/W STANDARD

ISIGN <u>@</u> LITTLITTY PARCEL NUMBER

(21-1)

CONVENTIONAL SYMBOLS

(1" UNLESS NOTED) PROPOSED R/W LINE EXISTING H.E. LINE • ◆(SET) PROPERTY LINE △ ★(SET) LOT & TIE LINES SLOPE INTERCEPTS CORPORATE LIMITS NO ACCESS
(BY PREVIOUS ACQUISITION/CONTROL NO ACCESS
(BY ACQUISTION) NO ACCESS (BY STATUTORY AUTHORITY) SECTION LINE QUARTER LINE

PROPOSED REFERENCE LINE

口马

STXTEENTH LINE

PARALLEL OFFSET

EXISTING CENTERLINE

GAS TELEPHONE OVERHEAD TRANSMISSION LINES FLECTRIC CABLE TELEVISION -----TV-----FIBER OPTIC ——F0—— SANITARY SEWER STORM SEWER —ss—— NON POWER POLE TELEPHONE POLE

COMPENSABLE COMPENSABLE TELEPHONE PEDESTAL X ELECTRIC TOWER

FILE NAME : N:\PDS\C3D\13300102\RW\040401_RP.DWG

(1001)

MONUMENT

PROPERTY LINE

REFERENCE I THE

RECORDED AS

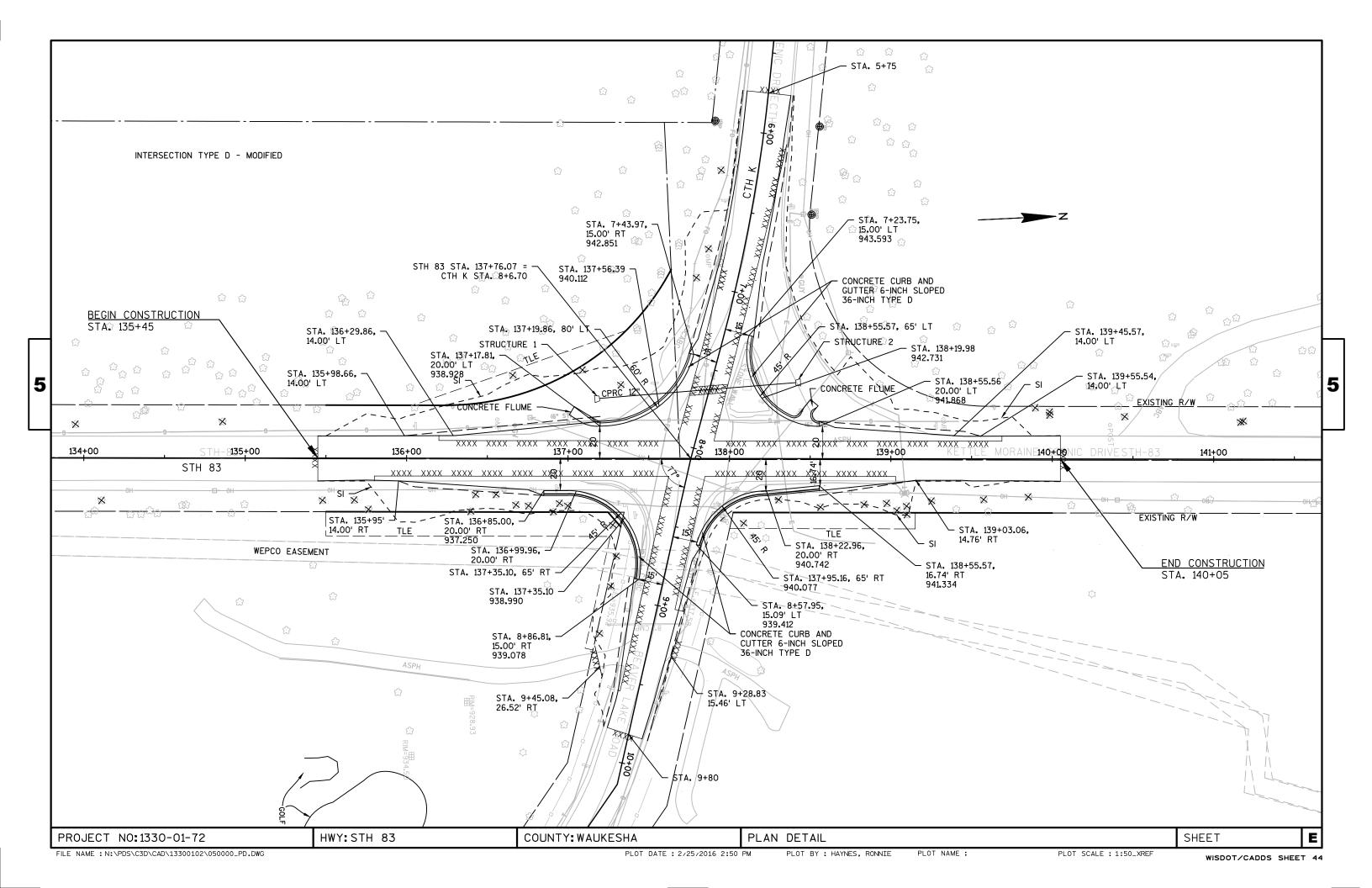
PAGE

PLOT DATE: 6/12/2015 10:08 AM

PLOT BY : ZENDEK. WALTER C PLOT NAME :

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

X=206590.42



FIXED MESSAGE SIGNS (DETAILS SHEETS)

GENERAL NOTES:

- 1. ALL SIGNS TO HAVE FLUORESCENT REFLECTIVE SHEETING REFERENCE: "WISDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST
- 2. AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE PROJECT ENGINEER SHALL VERIFY EACH SIGN LOCATION.
- 3. ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"x6") (FREEWAY) OR TUBULAR. STEEL POSTS OR 4X6 WOOD POSTS (NON FREEWAY). THE NUMBER OF POSTS REQUIRED FOR FACH LAYOUT IS SHOWN.
- 4. SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "FIXED MESSAGE SIGNS."
- 5. SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE FLUORESCENT REFLECTIVE BACKGROUND PER SPEC 643 & 637.
- 6. ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS: 12" CAPS SHALL BE SERIES "D" 6" CAPS SHALL BE SERIES "C" - UNLESS OTHERWISE SHOWN
- 7. ALL SIGNS SHALL HAVE BORDER & RADIUS OF BORDERS AS FOLLOWS:

SIGN AREA WIDTH OF BORDER GREATER THAN 150 SQ FT 60-150 SQ FT LESS THAN 60 SQ FT

CORNER RADIUS SMALLEST OUTSIDE DIMENSION > 8 FT 9" ≥ 6 FT 6" ≥ 4 FT LESS THAN 4 FT

- 8. BEGIN XXX XX SIGNS SHALL BE SEPARATE PANELS, BUT SHALL BE CONSIDERED AS PART OF THE SIGN AND SHOULD BE REMOVED OR COVERED AFTER THEIR EFFECTIVE DATE. THE MONTH AND DAY SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.
- 9. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.
- 10. SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 643 & 637.
- 11. SIGNS TO BE IN PLACE 10 DAYS PRIOR TO CONSTRUCTION.
- (X)= SIGN NUMBER

FOR PLAN SHEETS

LEGEND: FIXED MESSAGE SIGNS

- EXISTING GUIDE SIGN TO BE COVERED
- FIXED MESSAGE SIGN(S) ON WOOD POST SUPPORTS OR TUBULAR STEEL POSTS
- (XX)FIXED MESSAGE SIGN NUMBER
- (A1)CONTRACTOR SHALL COVER AS DIRECTED BY THE ENGINEER ALL ROUTE MARKINGS PERTAINING TO THE PROJECT. INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.
- CHANGEABLE MESSAGE SIGN

NOTES: FIXED MESSAGE SIGNS

- 1. CONTRACTOR SHOULD LOCATE FIXED MESSAGE SIGNS A MINIMUM OF 400' FROM ANY EXISTING TYPE "I" SIGN.
- 2. ALL FIXED MESSAGE SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE FLORESCENT REFLECTIVE BACKGROUND PER SPEC 643 & 637.
- 3. SEE FIXED MESSAGE SIGNS AND SPECIAL MESSAGE SIGNS LAYOUT SHEETS FOR MORE INFORMATION.
- 4. COVER DETOUR SIGNING WHEN NOT IN USE. INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.
- 5. SIGNS TO BE PLACED 10 DAYS PRIOR TO CONSTRUCTION.

PLOT NAME :

HWY:STH 83 PROJECT NO: 1330-01-72 COUNTY: WAUKESHA FIXED MESSAGE SIGNS GENERAL NOTES & LEGEND

SHEET

Ε

FIXED MESSAGE SIGNS

GENERAL NOTES:

- ALL SIGNS TO HAVE FLUORESCENT REFLECTIVE SHEETING REFERENCE: "WSDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST
- 2. AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE PROJECT ENGINEER SHALL VERIFY EACH SIGN LOCATION.
- 3. ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"x6") OR TUBULAR STEEL POSTS. THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN.
- 4. SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "FIXED MESSAGE SIGNS."
- SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE FLUORESCENT REFLECTIVE BACKGROUND PER SPEC 643 & 637.
- 6. ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS:
 - 12" CAPS SHALL BE SERIES "D"
 6" CAPS SHALL BE SERIES "C" UNLESS OTHERWISE SHOWN
- 7. ALL SIGNS SHALL HAVE BORDER & RADIUS OF BORDERS AS FOLLOWS:

SIGN AREA GREATER THAN 150 SQ FT WIDTH OF BORDER 60-150 SQ FT LESS THAN 60 SQ FT CORNER RADIUS

SMALLEST OUTSIDE DIMENSION > 8 FT 12" ≥ 4 FT LESS THAN 4 FT

- 8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.
- 9. SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 643 & 637.
- 10. SIGNS TO BE IN PLACE 14 DAYS PRIOR TO CONSTRUCTION.



HWY:STH 83 E PROJECT NO:1330-01-72 COUNTY: WAUKESHA FIXED MESSAGE SIGNS SHEET

FILE NAME: N:\PDS\C3D\CAD\13300102\070101_MS.DWG LAYOUT NAME - **** PLOT DATE : 2/25/2016 2:52 PM PLOT NAME : PLOT SCALE : 1 IN:200 FT PLOT BY : HAYNES, RONNIE WISDOT/CADDS SHEET

SERIES C LETTERS

- 50 -

— 29.875 —

TYPE II SIGN

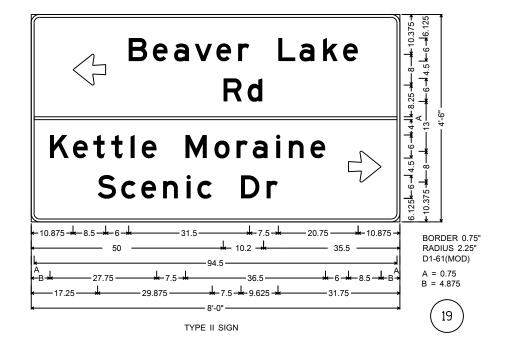
- 10.2 - ★

10.875

— 35.5 —

GENERAL NOTES:

- 1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
- 2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".
- 3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE "TYPE SH REFLECTIVE
- 4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.
- 5. TYPE II SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E". ALL LOWERCASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E".
- 6. TYPE I SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E MODIFIED". ALL LOWER CASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E MODIFIED". ALL CAP WORDS ARE "SERIES E".
- 7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.
- 8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE
- 9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
- 10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE "SERIES E" PER PLATES A11-7 AND A11-10.
- 11. DO NOT SCALE.



SHEET 1 OF 1

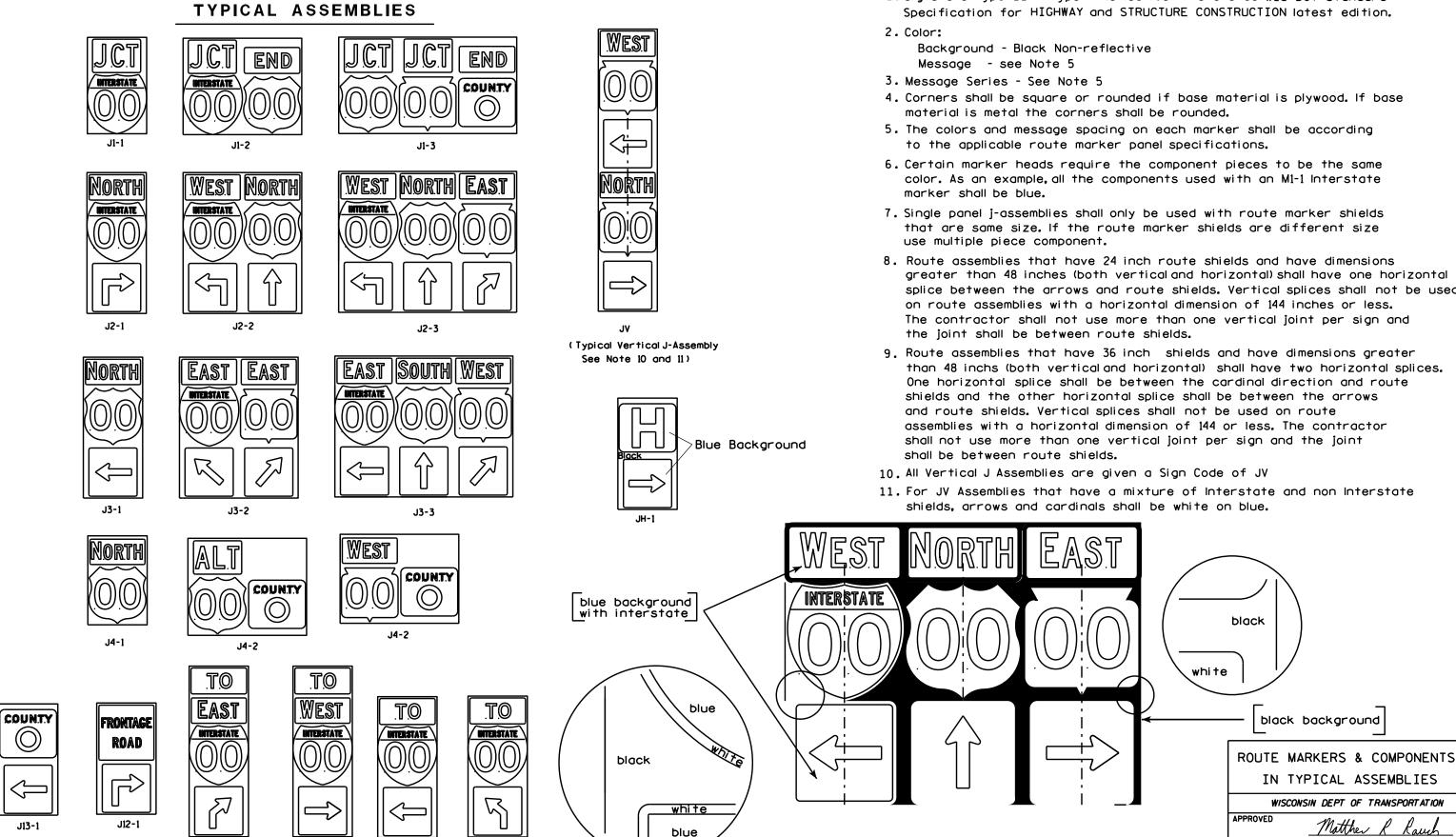
PROJECT NO:1330-01-72 Ε HWY:STH 83 COUNTY: WAUKESHA SIGN DETAIL - TYPE II SHEET FILE NAME : N:\PDS\C3D\CAD\13300102\SIGN\070101_MS.DWG PLOT BY : DODGE, BRIAN M

RADIUS 2.25" D1-61(MOD) A = 4.875

B = 0.75

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) A POLICE AND A POL D^{-1} Outside Edae of Gravel

White Edgeline Location

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

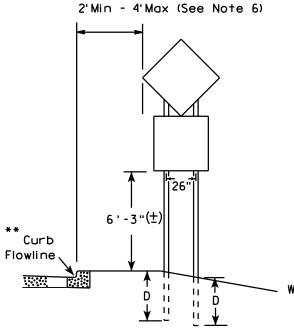
APPROVED

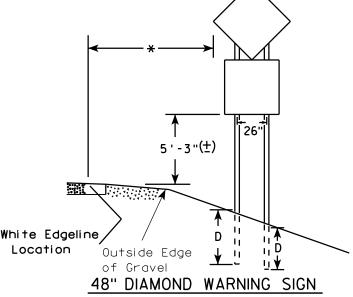
WISDOT/CADDS SHEET 42

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





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

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther For State Traffic Engineer

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

SHEET NO:

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

PLOT DATE: 23-JUL-2015 15:23

PLOT NAME :

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

 $\times \times \times$

PROJECT NO:

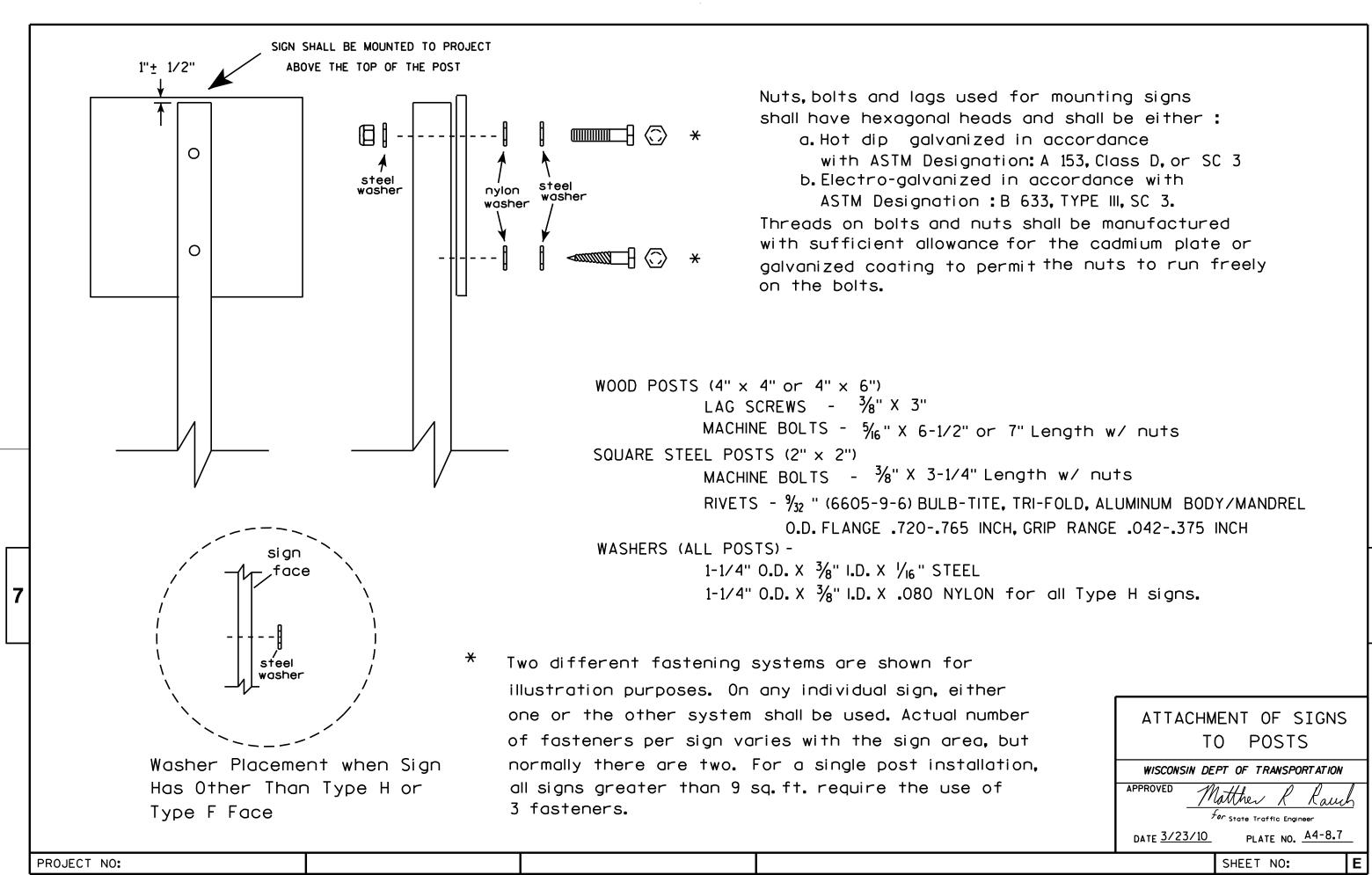
HWY:

48" DIAMOND WARNING SIGN

COUNTY:

PLOT BY: mscj9h

of Gravel





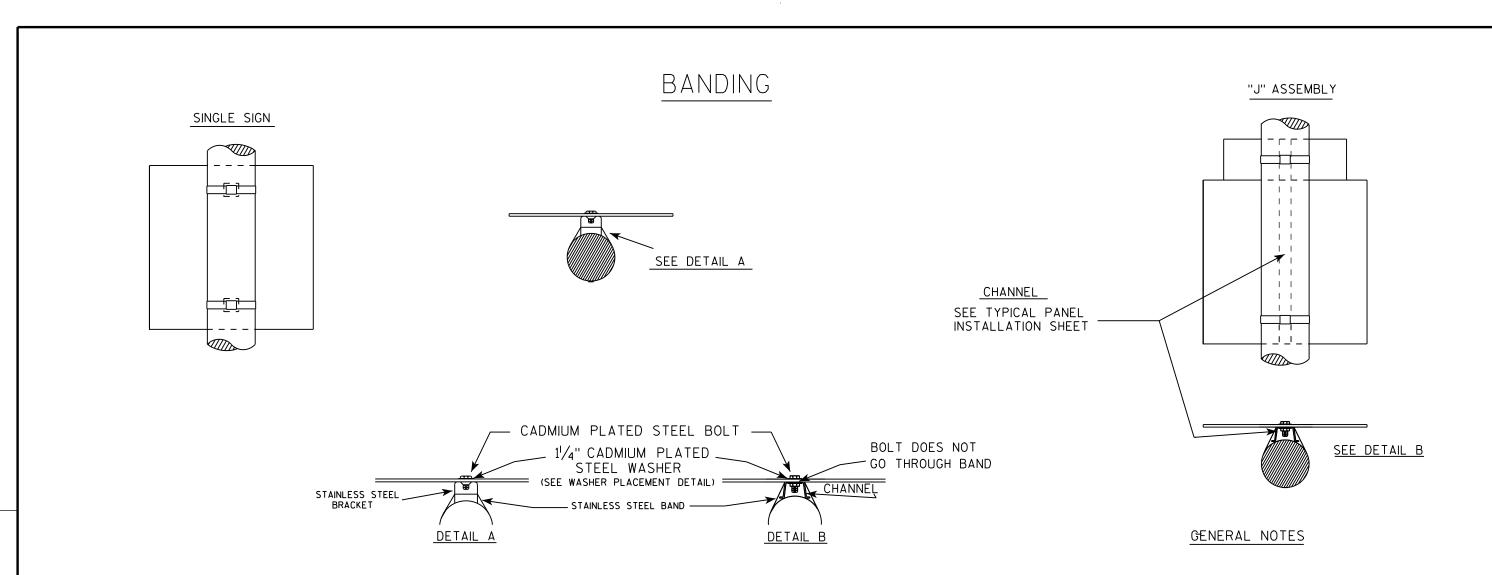
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

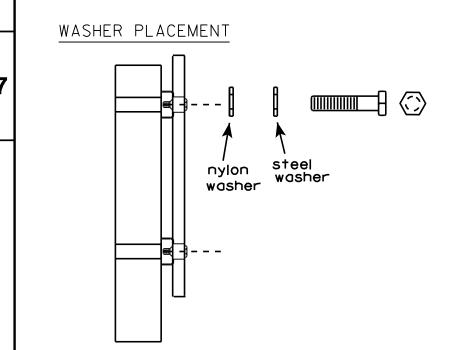
DATE 2/05/15

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

For State Traffic Engineer







HWY:

WASHERS (ALL POSTS) -

COUNTY:

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

PLOT BY: mscsja

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 1100 400 400

For State Traffic Engineer

DATE 8/16/13

713 PLATE NO. A5-9.3

SHEET NO:

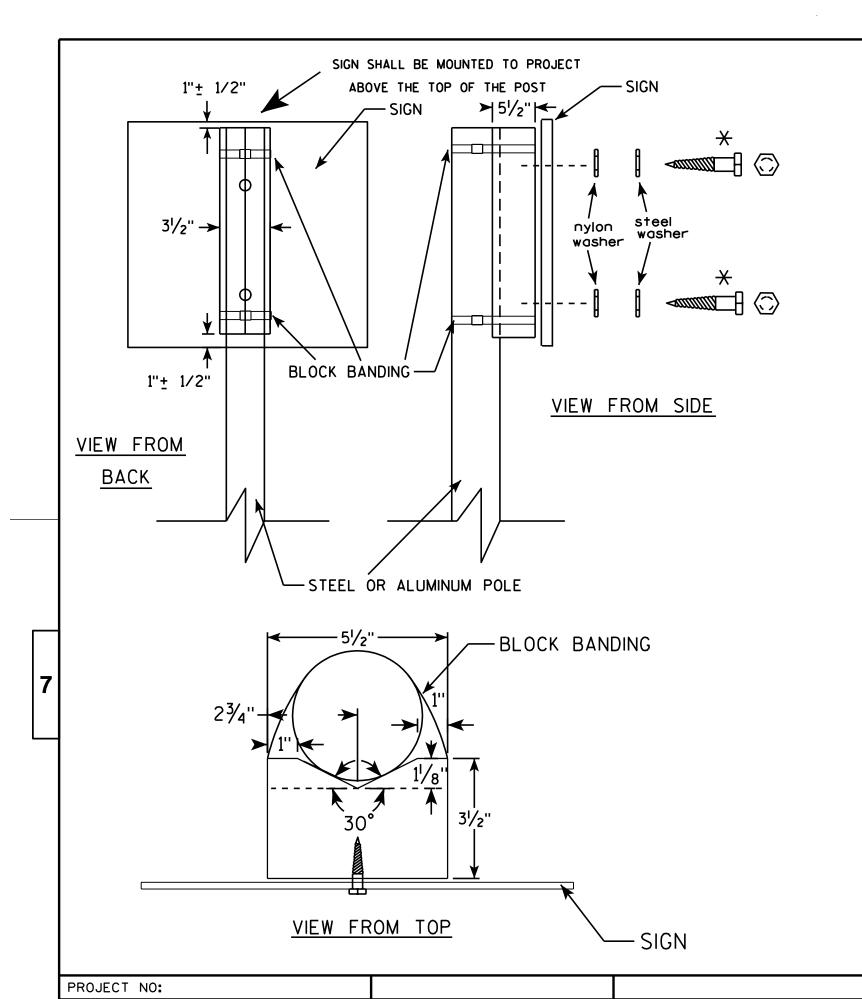
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A59.DGN

PROJECT NO:

PLOT DATE: 16-AUG-2013 13:27

PLOT NAME :

PLOT SCALE: 33.740899:1.000000



GENERAL NOTES

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

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
 - b. Cadmium plated in accordance with ASTM Designation: B 766 TYPE 3, Class 12, or
 - c. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE 11/4" O.D. X 3/8" I.D. X 1/16"
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

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

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

For State Traffic Engineer

DATE 7/12/07

PLATE NO. A5-10.1

SHEET NO:

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

2. Color:

Background - Orange Message - Black

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



Metric equivalent for this sign is:

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

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

AP

for State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42

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

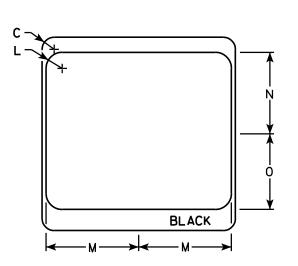
Background - White & Black - See Note 7 Message - Black

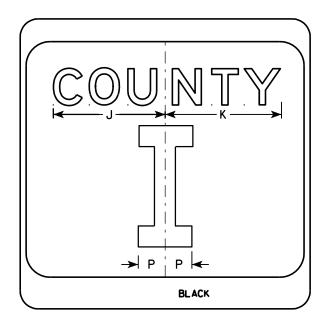
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

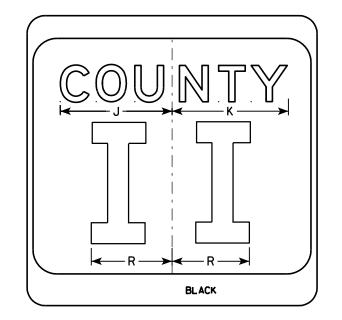
 Message Series D for 2 letters unless
 message is too big then Series C.

 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	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 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 :

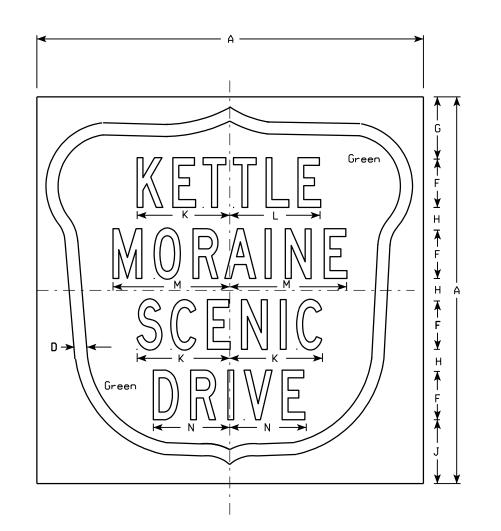
PLOT SCALE: 5.959043:1.000000



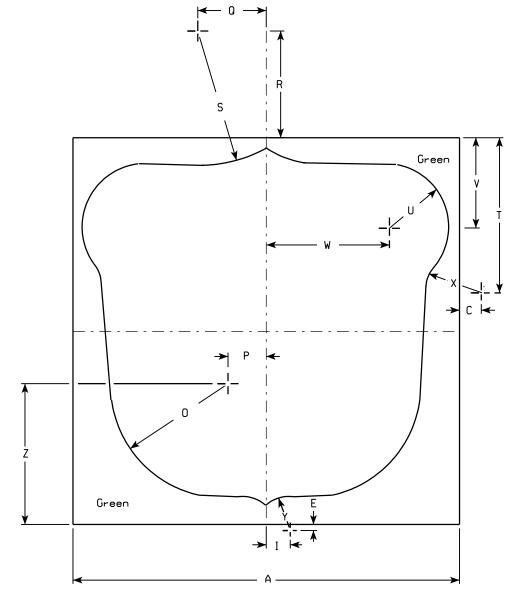
- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Green Message - White - Type H Reflective

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



HWY:



Metric equivalent for this sign is:

3120	-					
1						
2		600	mm	X	600	mm
3						
4		900	mm	X	900	mm
5						

PROJECT NO:

SIZE	Α	B	С	D	E	F	G	Н	I	7	K	L	M	N	0	P	0	R	S	T	U	٧	W	X	Y	Z	sq. ft.	m2
1																												
2	24		1 3/8	3/4	3⁄8	3	3 1/8	1 3/8	1 1/2	4	5 3/4	5 %	7 1/4	4 3/4	7 1/4	2 3/8	4 1/4	6 %	8 1/2	9 %	3 %	5 %	7 5/8	3 ½	2 1/8	8 3/4	4.00	0.36
3																												
4	36		1 1/2	1 1/8	3/4	5	5 1/4	1 %	2 1/4	5 %	9 1/8	9	11 3/4	7 3/8	10 ¾	3 %	6 3/8	9 %	14 1/8	14 3/8	5 3/4	8 3/8	11 3/8	5 1/8	3 ½	13 1/8	9.00	0.81
5																												

COUNTY:

STANDARD SIGN M1-97

WISCONSIN DEPT OF TRANSPORTATION APPROVED

DATE 1/30/02

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\M197.DGN

PLOT DATE: 14-OCT-2005 10:30

PLOT BY : DITJPH

PLOT NAME :

PLOT SCALE: 5.960833:1.000000

- 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

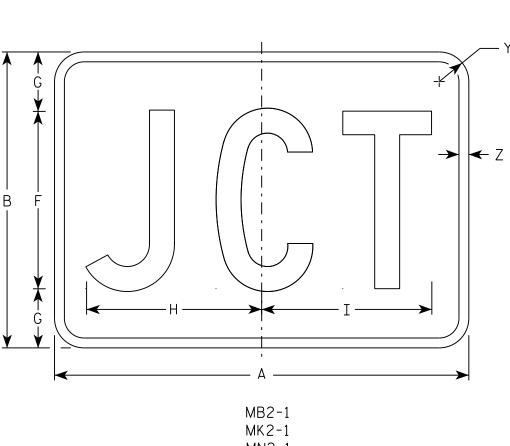
Message - White

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:

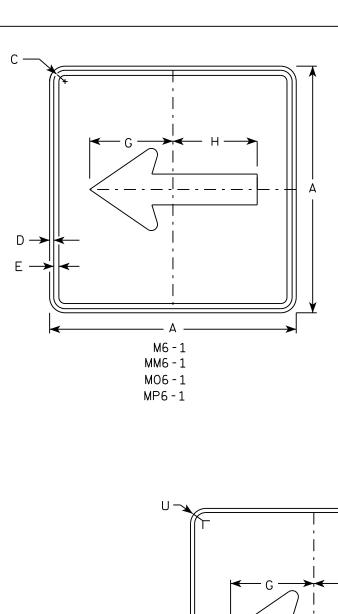
MM2-1

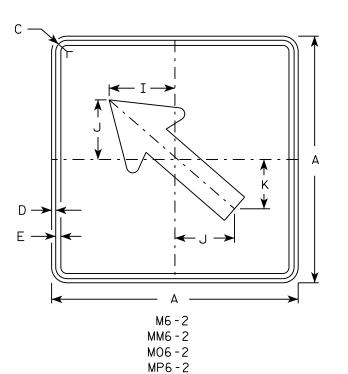
MP2-1

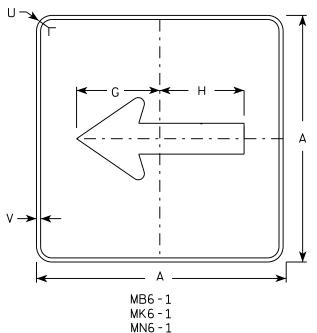
PLOT DATE . 01-DEC-2015 17:54

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

PLOT SCALE • 4 864603•1 000000

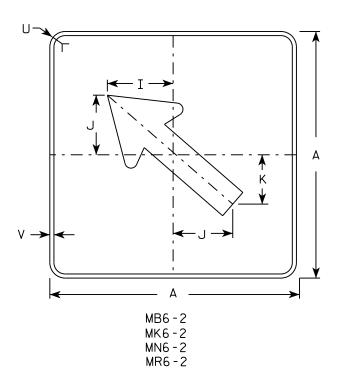






MR6-1

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

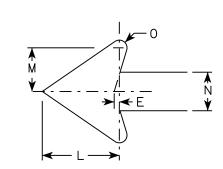
Message - Black

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:

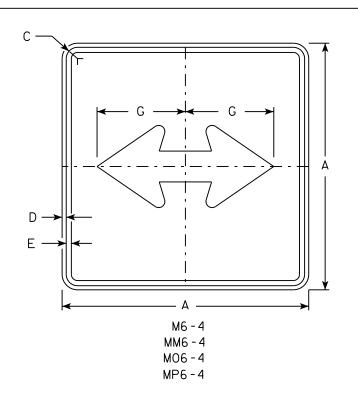
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

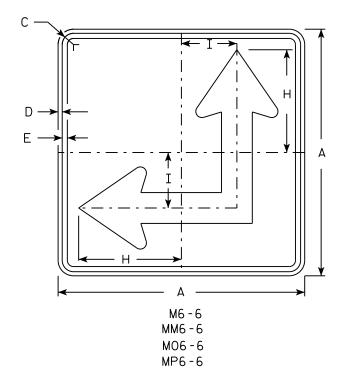
PROJECT NO:

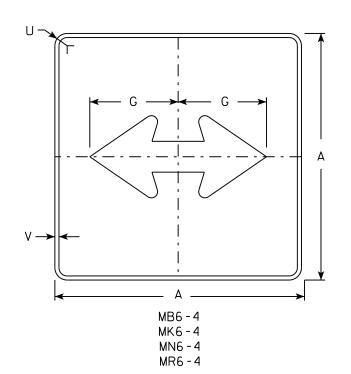
PLOT DATE . 01-DEC-2015 17:57

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

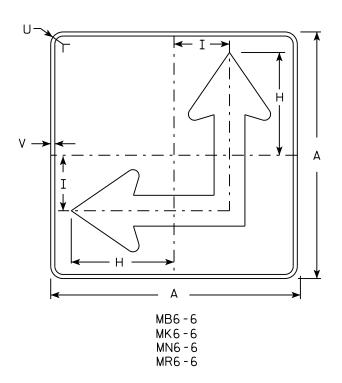
PLOT SCALE . 11 675051.1 000000







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. M6-4 and M6-6 Background White Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

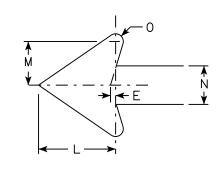
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

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



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

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

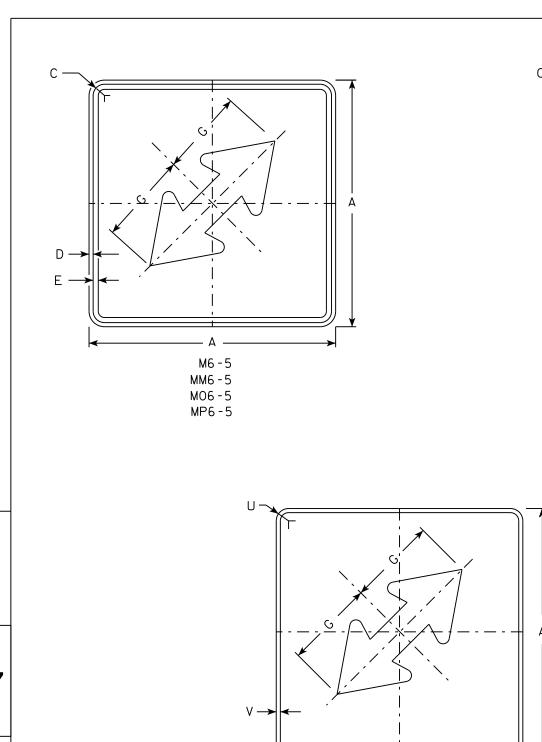
PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

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

PLOT SCALE . 11 675051.1 000000

PROJECT NO:

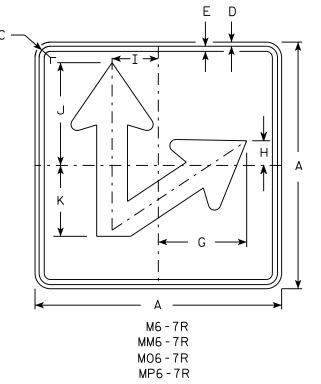


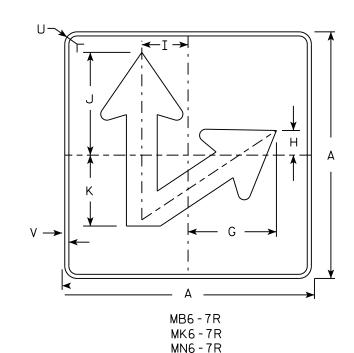
MB6-5

MK6-5

MN6-5

HWY:





NOTES

- 1. Sign is 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. M6-5 and M6-7 Background White

Message - Black

MB6-5 and MB6-7 Background - Blue

Message - White

MK6-5 and MK6-7 Background - Green

Message - White

MM6-5 and MM6-7 Background - White

Message - Green

MN6-5 and MN6-7 Background - Brown

Message - White

M06-5 and M06-7 Background - Orange - Type F Reflective

Message - Black

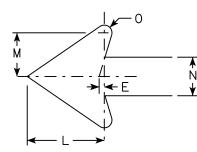
MP6-5 and MP6-7 Background - White

Message - Blue

MR6-5 and MR6-7 Background - Brown

Message - Yellow

5. M6-7L same as M6-7R except arrow points ahead and left.



								MH	76 - 5								MR	6-7R									
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	2 1/8	4 1/4	8 3/4	6	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	3	6 3/4	12 1/2	8 %	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	3	6 3/4	12 1/2	8 %	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	3	6 3/4	12 1/2	8	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-5 & M6-7 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

DATE 10/15/15

SHEET NO: M6-7.9

FILE NAME · C·\CAFfiles\Projects\tr stdplate\M67 DGN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:59

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

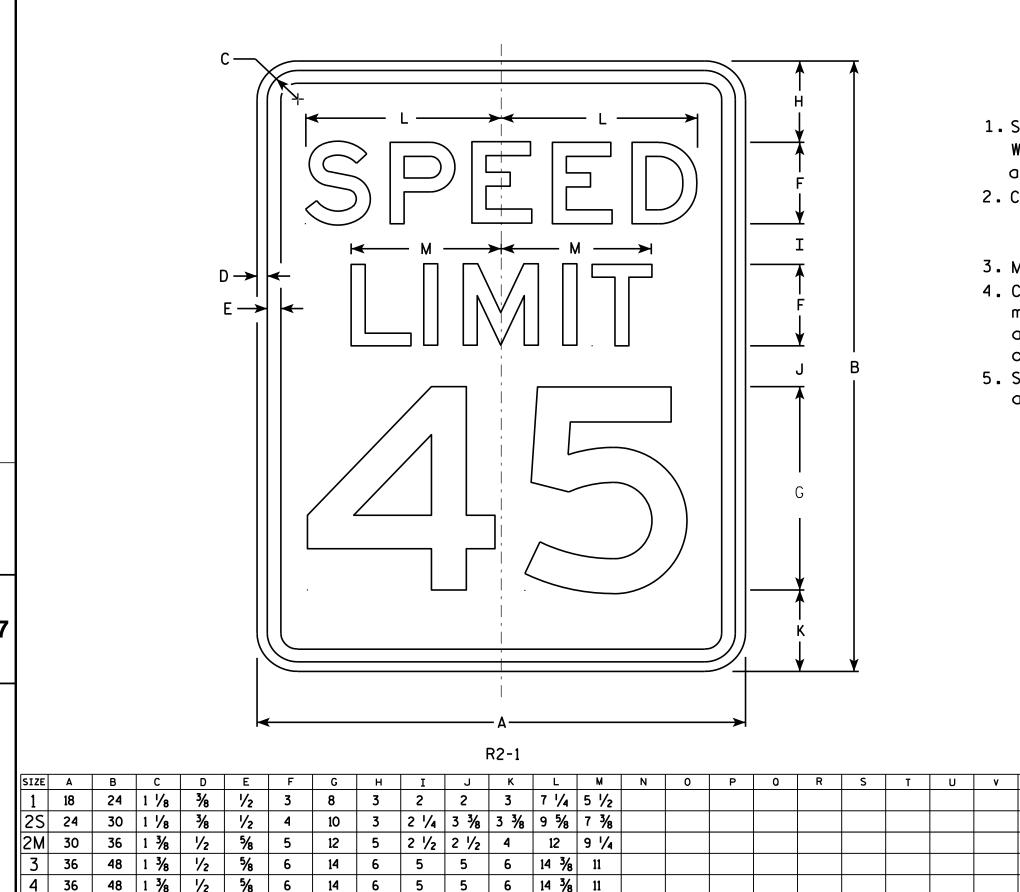
PLOT SCALE . 11 675051.1 000000

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

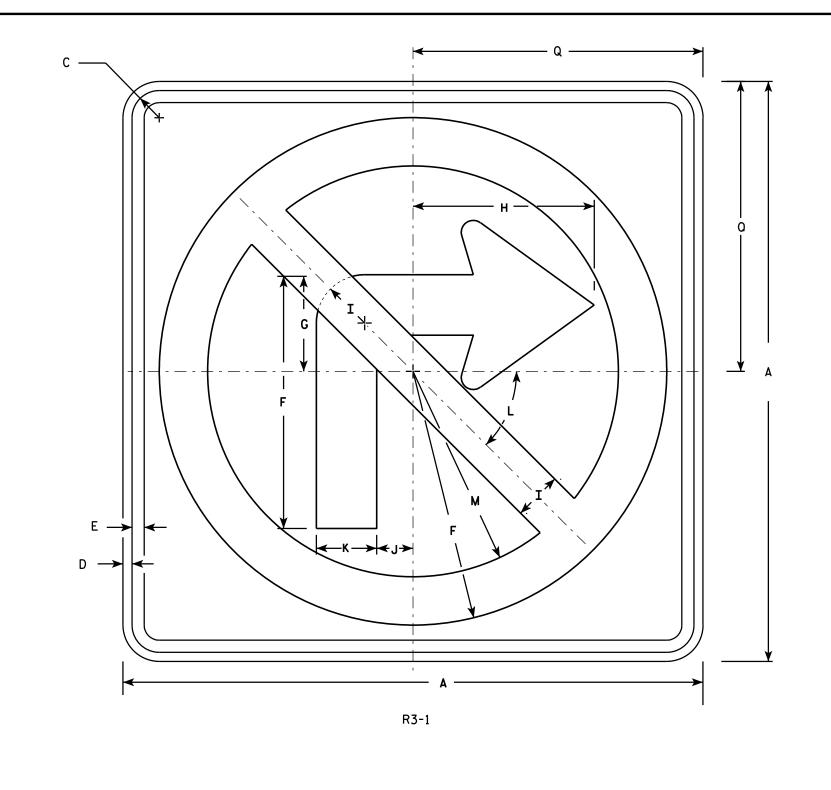
60

5

48

PROJECT NO:

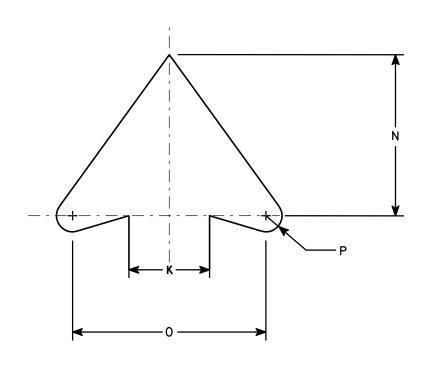
PLOT NAME :



- 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 - 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45 °	8 ½	5	6	1/2	12										4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 %	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 %	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0
PRO	JECT	NO:			·		ŀ	HWY:	·			·	СО	UNTY:			·			·		·	·			·	

STANDARD SIGN R3-1

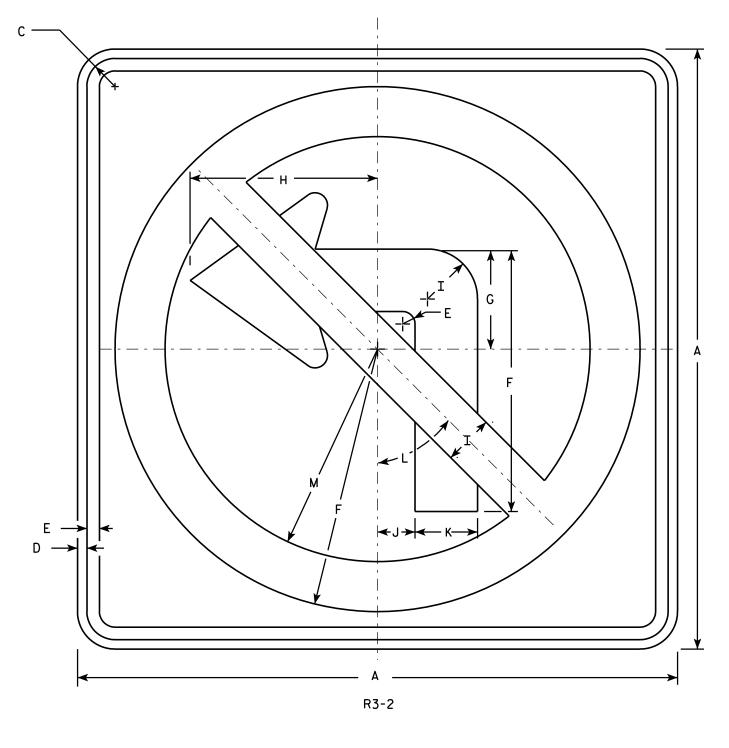
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

DATE12/08/10

PLATE NO. __R3-1.5

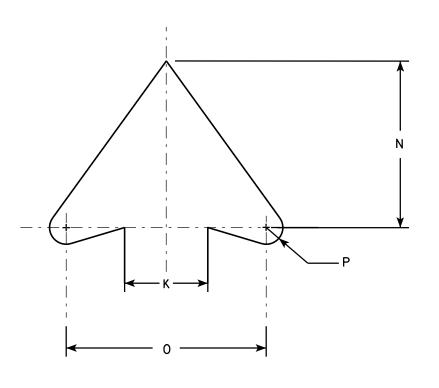
SHEET NO:



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

Background - White 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	9	1/2											4.0
2M	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$ State Traffic Engineer

DATE 12/08/10

PLATE NO. R3-2.10

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :



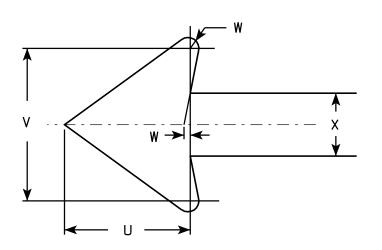
- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

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 :

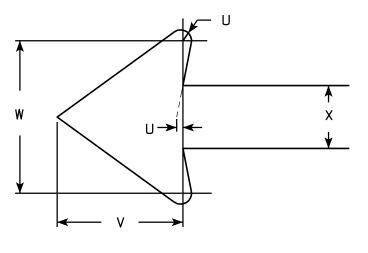
PLOT SCALE: 3.476110:1.000000



- 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 - 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. R7-52D (double arrow) R7-52L (left arrow) R7-52R (right arrow)



ARROW DETAIL

											1 . 1	52															
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	12	18	1 1/8	3/8	3/8	3	1 1/8	1 1/2	%	7/8	2	2 1/2	2	2	4 %	4 1/8	5 1/8	5	3 1/8	3 %	1/8	1 1/2	1 3/4	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	6 %	6 1/4	3 %	5 %	1/4	2 1/4	2 %	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	7 %	7	4 3/4	7 3/4	1/4	3	3 1/2	11/2			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	7 %	7 %	4 3/4	7 3/4	1/4	3	3 1/2	11/2			5.0
4																											
5																											

COUNTY:

STANDARD SIGN R7-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther & Rauch

DATE 3/31/2011 PLATE NO. R7-52.6

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R752.dgn

PROJECT NO:

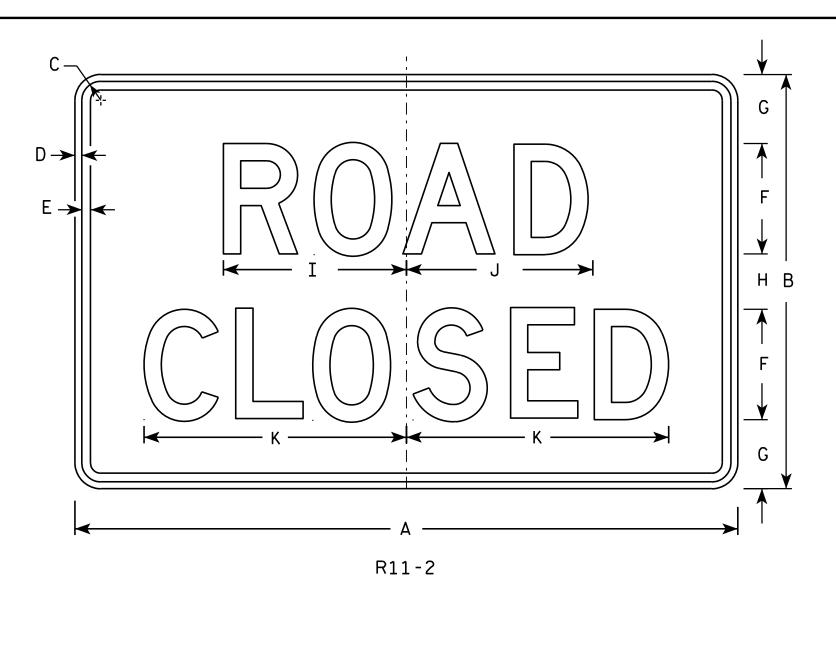
HWY:

PLOT DATE: 31-MAR-2011 13:07

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.476110:1.000000

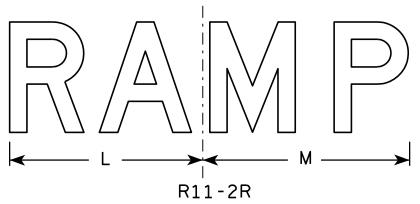


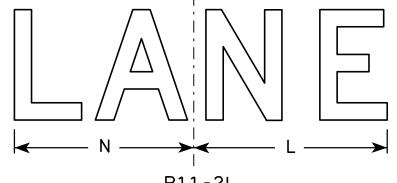
<u>NOTES</u>

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

Background - White Message - Black

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





R	1	1	-	2	L

PLOT NAME :

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

COUNTY:

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

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

SHEET NO:

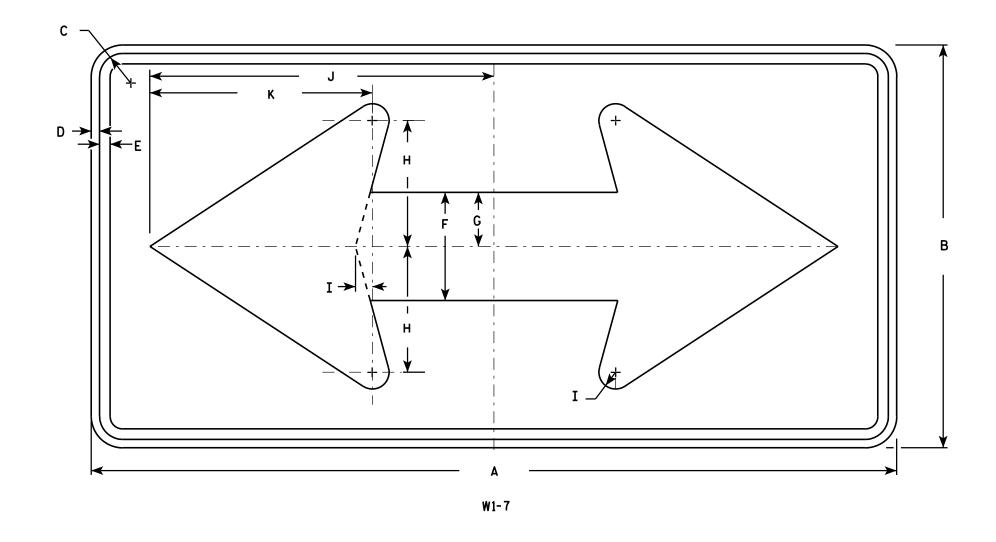
HWY:

PROJECT NO:

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

Background - Yellow Message - Black

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



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Area sq. ft.
1	36	18	1 1/8	3⁄8	1/2	5	2 1/2	5 ¾	3/4	15 5/	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/	2 13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/	2 13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/	ß 16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

COUNTY:

STANDARD SIGN W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W17.DGN

PROJECT NO:

HWY:

PLOT DATE: 07-JUN-2010 12:35

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 5.720679:1.000000

- 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	د	V	W	X	Y	Z	Areo sq. fi.
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:

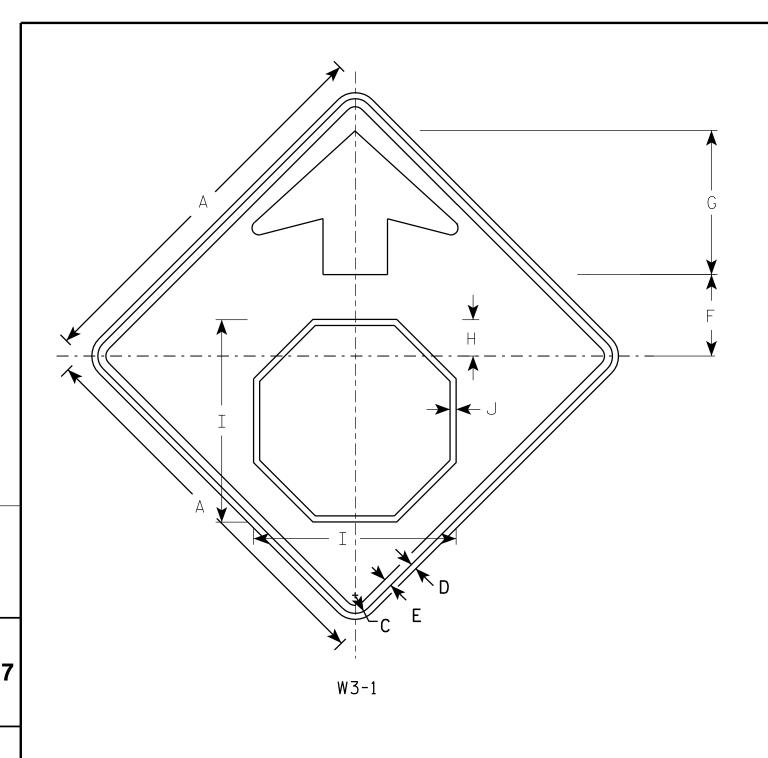
HWY:

PLOT DATE: 29-MAY-2012 10:18

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 6.202372:1.000000

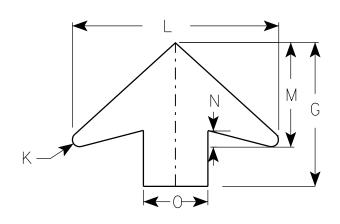


- 1. All Signs Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - YELLOW

Arrow & Border - BLACK

Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW	DFTAII
$\neg \cdots $	

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	Areo sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 1/8	15 ¾	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 1/8	5/8	₹4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
2M	36		1 1/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7 ⁄8	25 %	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	₹4	7 /8	25 %	13	2	8												16.0

STANDARD SIGN W3-1

WISCONSIN DEPT OF TRANSPORTATION

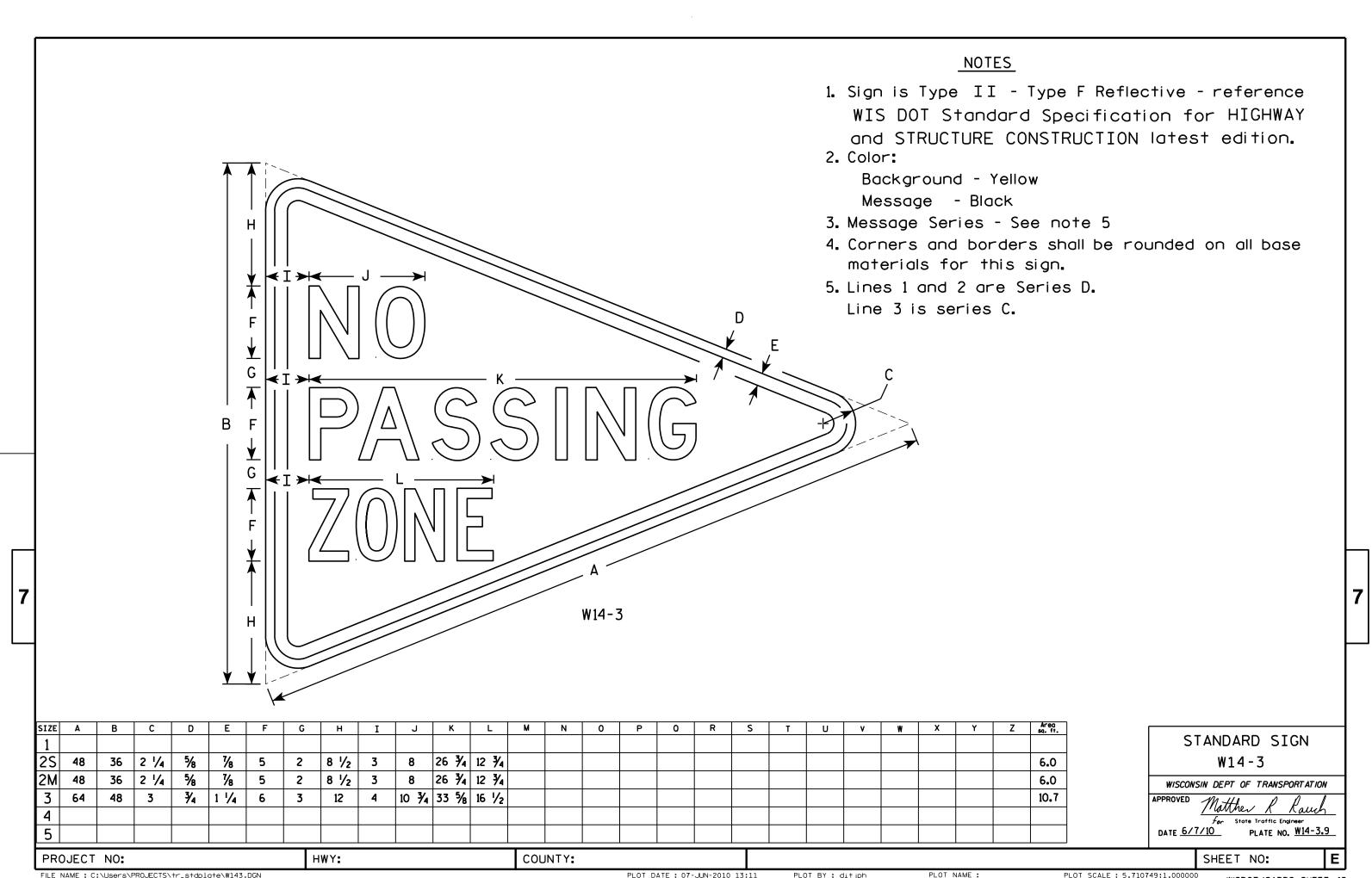
APPROVED Matthew

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:

PROJECT NO:

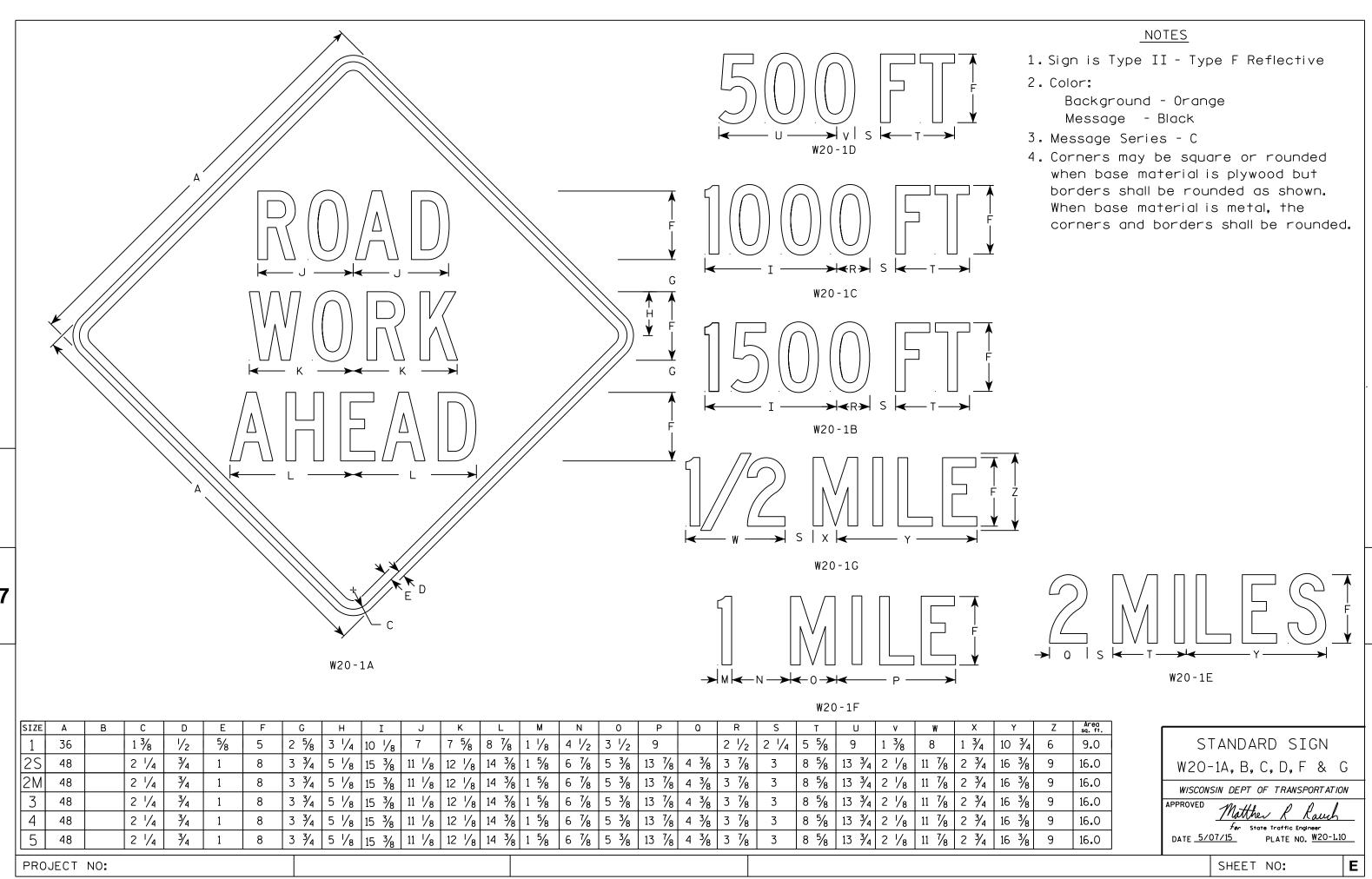


FILE NAME : C:\Users\PROJECTS\tr_stdplate\W143.DGN

PLOT DATE: 07-JUN-2010 13:11

PLOT BY: ditjph

PLOT SCALE: 5.710749:1.000000



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

PLOT DATE . 01-DEC-2015 18.24

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

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

Background - Orange Message - Black

3. 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.

A	C H
	W20-7A

HWY:

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 1/8	5/8	₹4		2 3/4	13 1/2	14 5/8																		9.00
25	48		2 1/4	₹4	1		3 3/4	18	19 1/2																		16.00
2M	48		2 1/4	₹4	1		3 3/4	18	19 1/2																		16.00
3	48		2 1/4	3∕4	1		3 3/4	18	19 1/2																		16.00
4	48		2 1/4	₹4	1		3 3/4	18	19 1/2																		16.00
5	48		2 1/4	₹4	1		3 3/4	18	19 1/2																		16.00

COUNTY:

STANDARD SIGN W20-7A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rawl For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-74.5

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W207A.DGN

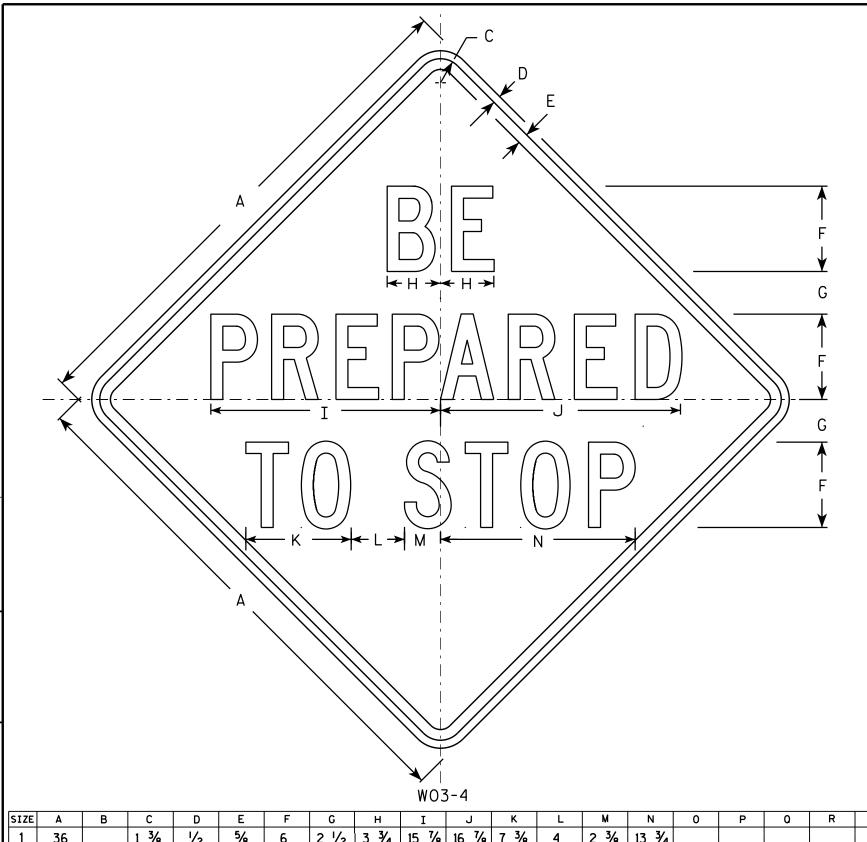
PROJECT NO:

PLOT DATE: 18-MAR-2011 13:14

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 7.945391:1.000000



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

Background - Orange Message - Black

- 3. Message Series 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.

1 3/8 5/8 2 3/8 | 13 3/4 1/2 2 1/2 15 % 16 % 7 % 9.0 3/4 21 1/2 22 1/2 9 7/8 5 3 3/8 18 1/4 48 2 1/4 16.0 2 1/4 3/4 21 1/2 22 1/2 9 7/8 5 3 3/8 | 18 1/4 16.0 48 3/4 21 1/2 22 1/2 9 7/8 5 3 3/8 18 1/4 2 1/4 16.0 48 4 21 1/2 22 1/2 9 7/8 5 3 3/8 18 1/4 2 1/4 3/4 48 8 16.0 5 3/4 21 1/2 22 1/2 9 7/8 3 3/8 18 1/4 48 2 1/4 8 16.0

COUNTY:

STANDARD SIGN W03 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 12/02/13

PLATE NO. W03-4.1 SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W034.DGN

HWY:

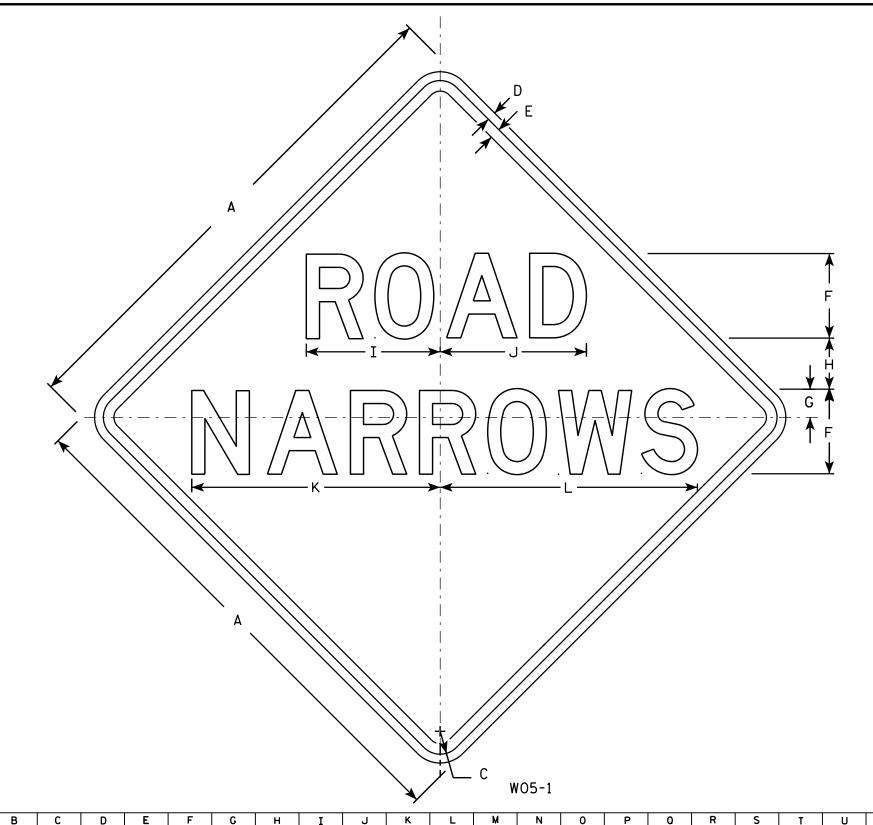
PROJECT NO:

PLOT DATE: 02-DEC-2013 14:02

PLOT NAME :

WISDOT/CADDS SHEET 42

PLOT SCALE: 8.999518:1.000000



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

Background - Orange Message - Black

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

SIZE A 1 5/8 3 1/2 9 1/2 10 3/8 17 5/8 18 1/4 3/4 9.0 2S 2 1/4 3/4 12 3/4 13 3/4 23 1/2 24 3/8 48 16.0 2M 2 1/4 3/4 12 3/4 13 3/4 23 1/2 24 3/8 48 16.0 12 3/4 13 3/4 23 1/2 24 3/8 2 1/4 3/4 48 16.0 2 1/4 3/4 12 3/4 13 3/4 23 1/2 24 3/8 48 3 16.0 2 1/4 3/4 12 3/4 13 3/4 23 1/2 24 3/8 48 3 16.0

COUNTY:

STANDARD SIGN WO5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

far State Traffic Engineer

DATE 11/20/13

SHEET NO:

HWY:

PROJECT NO:

PLOT BY: mscsja

PLATE NO. W05-1.1

			AREA (SF)						Incremental Vol (CY) (Unadjusted)						С	umulative Vol (CY)						
																		Expanded Marsh	n	Expanded EBS	Reduced Marsh	Reduced EBS	
	Real Station		Cut	Salvaged/Unusable	Fill I	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable	Fill	Marsh I	Exc Ro	ck Exc	EBS	Cut	Expanded Fill	Backfill	Expanded Rock	Backfill	in Fill		Mass Ordinate
STATION		Distance		Pavement Material						Pavement Material						1.00	1.25	1.50	1.10	1.30	0.60	0.80	
									Note 1	Note 2	Note 3	3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
135+45	13595.00	0.00	13.29		38.30		0.00			0	0	0		0	0	0	0	0	0	0	0.00	0.00	0.00
136+00	13600.00	5.00	17.69		42.34	0.00		0.00		0	7	0		0	0	3	9	0	0	0	0.00	0.00	-6.47
136+04.91	13604.91	4.91	20.42		45.15	0.00	0.00	0.00		0	8	0		0	0	6	19	0	0	0	0.00	0.00	-12.94
136+25	13625.00	20.09	29.83		17.93	0.00	0.00	0.00		0	23	0		0	0	25	49	0	0	0	0.00	0.00	-23.58
136+29.86		4.86	32.56		10.52	0.00		0.00		0	3	0		0	0	31	52	0	0	0	0.00	0.00	-21.17
136+50	13650.00	20.14	39.81		8.02	0.00		0.00		0	7	0		0	0	58	60	0	0	0	0.00	0.00	-2.83
136+59.86		9.86	50.32		8.68	0.00		0.00		0	3	0		0	0	74	64	0	0	0	0.00	0.00	9.82
136+75	13675.00	15.14	69.61		8.06	0.00		0.00		0	5	0		0	0	108	70	0	0	0	0.00	0.00	37.58
136+85	13685.00	10.00	71.56		5.70	0.00		0.00		0	3	0		0	0	134	73	0	0	0	0.00	0.00	60.53
136+99.96		14.96	85.82		0.04	0.00		0.00		0	2	0		0	0	177	75	0	0	0	0.00	0.00	102.15
137+00	13700.00	0.04	85.92		0.03	0.00		0.00		0	0	0		0	0	178	75	0	0	0	0.00	0.00	102.27
137+05	13705.00	5.00	92.01		0.05	0.00		0.00		0	0	0		0	0	194	75	0	0	0	0.00	0.00	118.74
137+10	13710.00	5.00	96.71		0.00	0.00		0.00		0	0	0		0	0	212	75	0	0	0	0.00	0.00	136.21
137+15	13715.00	5.00	106.48		0.00	0.00	0.00	0.00		0	0	0		0	0	230	75	0	0	0	0.00	0.00	155.02
137+19.86		4.86	114.45		0.48	0.00	0.00	0.00		0	0	0		0	0	250	75	0	0	0	0.00	0.00	174.85
137+20	13720.00	0.14	114.86		0.48	0.00	0.00	0.00		0	0	0		0	0	251	75	0	0	0	0.00	0.00	175.44
137+25	13725.00	5.00	126.45		0.44	0.00	0.00	0.00		0	0	0		0	0	273	75	•	0	0	0.00	0.00	197.68
137+30	13730.00	5.00	133.08		0.33	0.00		0.00		0	0	0		0	0	297	76	0	0	0	0.00	0.00	221.62
137+35	13735.00	5.00	118.35		0.19	0.00		0.00		0	0	0		0	0	320	76	0	0		0.00	0.00	244.84
137+40	13740.00	5.00	96.53		0.08	0.00		0.00		0	0	0		0	0	340	76	0	0	0	0.00	0.00	264.71
137+45	13745.00	5.00	66.62		0.01	0.00		0.00		•	0	0		0	0	355	76	0			0.00	0.00	279.80
137+50	13750.00 13755.00	5.00	51.18		0.00	0.00		0.00	<u> </u>	0	0	0	-	0	0	366	76	. 0	0	0	0.00	0.00	290.71
137+55			37.16		0.00	0.00		0.00	<u>-</u>	0	0	0	-		0	375	76	0	0	0	0.00	0.00	298.89
137+60	13760.00	5.00	20.47		0.00	0.00		0.00	<u>-</u>	, U	-		-		0	380	76	0	•		0.00	0.00	304.23
137+65	13765.00 13785.00	5.00 20.00	6.60		0.00	0.00		0.00	-	0	0	0	-	0	0	382	76	0	0	0	0.00	0.00	306.73
137+85 137+90	13785.00	5.00	1.90 11.47		0.00	0.00	0.00	0.00	<u> </u>	0	0	0	-	0	0	386	76 76	0	0	0	0.00	0.00	309.88 311.12
	13790.00	5.00	26.98				0.00	0.00	<u> </u>	0	0	0	-	0	0	387	-	0	7 0	0			311.12
137+95	13795.00	-	42.51		0.00	0.00	0.00	_		0	0	0	_	0	0	390	76	0	0	0	0.00	0.00	314.08
138+00	13805.00	5.00	43.12		0.00	0.00	0.00	0.00	-	0	0	0	-	0	0	397	76 76	. 0	0	0	0.00	0.00	329.04
138+05		5.00	45.12		0.00	0.00		_	·	7 0	0	0	_	0	0	405		0	0	0	0.00	0.00	337.32
138+10	13810.00 13815.00	5.00	51.12		0.00	0.00	0.00	0.00	·	0	0	0	_	0	0	413 422	76 76	0	0	0	0.00	0.00	337.32
138+15 138+20	13820.00	5.00	54.92		0.00	0.00		0.00		0	0	0		0	0	432	76	0	7 0	0	0.00	0.00	356.17
138+23.11	13823.11		57.88		0.00	0.00	0.00		-	, U	0	0	-	0	0	438	r -, r	. 0	0	0	0.00	0.00	362.65
138+25	13825.00	3.11 1.89	56.22		0.01	0.00	0.00			0	0	0	-	0	0	430	76	. 0	0	0	0.00	0.00	366.65
138+30	13830.00	5.00	48.71		0.60	0.00	0.00			0	0	0	-	0	0	452	76	. 0	0	0	0.00	0.00	376.28
138+35	13835.00	5.00	62.85		1.04	0.00	0.00		<u>-</u>	0	0	0	-		0	462	76	0	0	0	0.00	0.00	386.42
138+40	13840.00	5.00	89.13		1.53	0.00	0.00			0	0	0	-		0	476	76	0	0	0	0.00	0.00	400.19
138+45	13845.00	5.00	105.45		2.45	0.00	0.00			0	0	0		-	0	494	77	0	0	0	0.00	0.00	417.75
138+50	13850.00	5.00	101.85		3.66	0.00	0.00			0	1	0	-		0	514	77	. 0	0	0	0.00	0.00	436.24
138+55	13855.00	5.00	97.14		5.15	0.00	0.00		<u>-</u>	0	1 1	0			0	532	78	0	0	0	0.00	0.00	453.64
138+55.57		0.57	96.85		5.31	0.00	0.00		-	0	0	, U		0	0	534	79	0	0	0	0.00	0.00	455.54
138+55.57		0.00	96.84		5.10	0.00	0.00			0	0	0	_	0	0	534	79	0	0	0	0.00	0.00	455.55
138+75	13875.00	19.43	82.34		1.76		0.00			0	2	0		0	0	599	82	0	0	0	0.00	0.00	516.94
139+00	13900.00	25.00	33.10		14.03		0.00			0	7	0		0	0	652	91	0	0	0	0.00	0.00	561.25
139+10.39		10.39	27.79		17.83		0.00			0	6	0	_	0	0	664	98	0	0	0	0.00	0.00	565.30
139+15.57		5.18	23.56		5.53	0.00	0.00			0	2	0	_	0	0	669	101	0	0	0	0.00	0.00	567.43
139+25	13925.00	9.43	18.27		0.00	0.00	0.00			0	1	0			0	676	102	. 0	0	0	0.00	0.00	573.52
139+45.57		20.57	9.61		0.12	0.00	0.00		<u>-</u>	0	0	0			0	687	103	0	0	0	0.00	0.00	584.08
139+50	13950.00	4.43	8.60		0.49	0.00	0.00		-	0	0	0			0	688	103	. 0	0	0	0.00	0.00	585.51
139+55.54		5.54	8.42		0.54	0.00	0.00			0	0	0			0	690	103	. 0	0	0	0.00	0.00	587.13
139+75	13975.00		1.71		3.06	0.00	0.00			0	1	0			0	694	103	. 0	0	0	0.00	0.00	589.16
140+05	13987.37		0.00		0.00	0.00	0.00			0	1 1	0			0	694	105	0	0	0	0.00	0.00	588.67

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PROJECT NO: 1330-01-72 HWY: STH 83 COUNTY: WAUKESHA EARTHWORK SHEET:

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

			AREA (SF)						Incremental Vol (CY) (Unadjusted)					(Cumulative Vol (CY)							
																	Expanded Marsh			Reduced Marsh		
	Real Station		Cut	Salvaged/Unusable	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable	Fill	Marsh Exc	Rock Exc E	BS	Cut	Expanded Fill		Expanded Rock	Backfill	in Fill	In Fill	Mass Ordinate
STATION		Distance		Pavement Material						Pavement Material					1.00	1.25	1.50	1.10	1.30	0.60	0.80	
									Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
05+75	600.00	0.00	11.34		0.00			0.00	0	0	0	0	0		0	0	0	0	0	0.00	0.00	0.00
06+10	610.00	10.00	10.80		0.00			0.00	4	0	0	0		0	4	0	0	0	0	0.00	0.00	4.10
06+25	625.00	15.00	10.53		0.00	0.00		0.00	6	0	0	0		0	10	0	0	0	0	0.00	0.00	10.03
06+50	650.00	25.00	9.88		0.00	0.00		0.00	9	0	0	0		0	19	0	0	0	0	0.00	0.00	19.47
06+50.99	650.99	0.99	9.83		0.00	0.00		0.00	0	0	0	0		0	20	0	0	0	0	0.00	0.00	19.83
06+75	675.00	24.01	74.53		0.00	0.00		0.00	38	0	0	0		0	57	0	0	0	0	0.00	0.00	57.35
07+00 07+23.84	700.00	25.00 23.84	55.62 86.38		0.00	0.00		0.00	60	0	0	0		0	118 180	0	0	0	0	0.00	0.00	117.60 180.30
07+25	723.84 725.00	1.16	88.66		0.00	0.00		0.00	03	0	0	0		0	184	0	0	0	0	0.00	0.00	184.05
07+25	730.00	5.00	101.29		0.00	0.00		0.00	18	0	0	0		0	202	0	0	0	0	0.00	0.00	201.64
07+30	730.00	2.25	106.91		0.00	0.00		0.00	9	0	0	0	-	0	210	0	0	0	0	0.00	0.00	210.32
07+32.23	735.00	2.75	100.71		0.00			0.00	7	0	0	0	-	0	221	0	0	0	0	0.00	0.00	221.35
07+33	740.00	5.00	98.78		0.00			0.00	19	0	0	0	-	0	241	0	0	0	0	0.00	0.00	240.65
07+43.97	743.97	3.97	83.36		0.00			0.00	13	0	0	0		0	254	0	0	0	0	0.00	0.00	254.05
07+45	745.00	1.03	78.62		0.00			0.00	3	0	0	0		0	257	0	0	0	0	0.00	0.00	257.14
07+50	750.00	5.00	70.83		0.96	0.00	_	0.00	14	0	0	0		0	271	0	0	0	0	0.00	0.00	270.86
07+55	755.00	5.00	80.15		0.76	0.00	-	0.00	14	0	0	0		0	285	0	0	0	0	0.00	0.00	284.62
07+60	760.00	5.00	89.09		0.35	0.00		0.00	16	0	0	0		0	301	0	0	0	0	0.00	0.00	300.14
07+65	765.00	5.00	100.02		0.00	0.00		0.00	18	0	0	0		0	318	1	0	0	0	0.00	0.00	317.61
07+70	770.00	5.00	87.53		0.00	0.00		0.00	17	0	0	0		0	335	1	0	0	0	0.00	0.00	334.97
07+75	775.00	5.00	55.91		0.00	0.00		0.00	13	0	0	0		0	349	1	0	0	0	0.00	0.00	348.25
07+80	780.00	5.00	44.98		0.00	0.00		0.00	9	0	0	0		0	358	1	0	0	0	0.00	0.00	357.59
07+85	785.00	5.00	28.06		0.00	0.00	_	0.00	7	0	0	0		0	365	1	0	0	0	0.00	0.00	364.36
07+90	790.00	5.00	13.79		0.00	0.00		0.00	4	0	0	0		0	369	1	0	0	0	0.00	0.00	368.23
07+95	795.00	5.00	4.11		0.00	0.00		0.00	2	0	0	0		0	370	1	0	0	0	0.00	0.00	369.89
08+20	820.00	25.00	5.66		0.00	0.00		0.00	5	0	0	0		0	375	1	0	0	0	0.00	0.00	374.41
08+25	825.00	5.00	17.63		0.00	0.00		0.00	2	0	0	0		0	377	1	0	0	0	0.00	0.00	376.56
08+30	830.00	5.00	31.26	0.00	0.00	0.00	0.00	0.00	5	0	0	0	0	0	382	1	0	0	0	0.00	0.00	381.09
08+35	835.00	5.00	40.91	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	388	1	0	0	0	0.00	0.00	387.77
08+40	840.00	5.00	38.72	0.00	0.11	0.00	0.00	0.00	7	0	0	0	0	0	396	1	0	0	0	0.00	0.00	395.13
08+45	845.00	5.00	44.75	0.00	0.12	0.00	0.00	0.00	8	0	0	0	0	0	403	1	0	0	0	0.00	0.00	402.84
08+50	850.00	5.00	55.17	0.00	0.10	0.00	0.00	0.00	9	0	0	0	0	0	413	1	0	0	0	0.00	0.00	412.06
08+55	855.00	5.00	65.12	0.00	0.06	0.00	0.00	0.00	11	0	0	0	0	0	424	1	0	0	0	0.00	0.00	423.18
08+57.95	857.95	2.95	50.52	0.00	0.04	0.00	0.00	0.00	6	0	0	0	0	0	430	1	0	0	0	0.00	0.00	429.48
08+58.1	858.10	0.15	55.30	0.00	0.05	0.00	0.00		0	0	0	0	0	0	430	1	0	0	0	0.00	0.00	429.78
08+60	860.00	1.90	51.01	0.00	0.00	0.00	0.00		4	0	0	0	0	0	434	1	0	0	0	0.00	0.00	433.52
08+65	865.00	5.00	43.00	0.00	0.00	0.00	0.00	0.00	9	0	0	0	0	0	443	1	0	0	0	0.00	0.00	442.23
08+70	870.00	5.00	37.78		0.00		0.00	0.00	7	0	0	0	0	0	450	1	0	0	0	0.00	0.00	449.71
08+75	875.00	5.00	33.83		0.00		0.00		7	0	0	0		0	457	1	0	0	0	0.00	0.00	456.34
08+80	880.00	5.00	30.26		0.04		0.00		6	0	0	0		0	463	1	0	0	0	0.00	0.00	462.27
08+85	885.00	5.00	25.59		0.50		0.00		5	0	0	0		0	468	1	0	0	0	0.00	0.00	467.38
08+86.81	886.81	1.81	23.85		1.06		0.00		2	0	0	0		0	470	1	0	0	0	0.00	0.00	468.97
09+00	900.00	13.19	17.25		0.71		0.00		10	0	0	0		0	480	1	0	0	0	0.00	0.00	478.47
09+25	925.00	25.00	13.81		6.71		0.00		14	0	3	0		0	494	6	0	0	0	0.00	0.00	488.55
09+50	950.00	25.00	12.55		0.01		0.00		12	0	3	0		0	506	9	0	0	0	0.00	0.00	496.87
09+56.61	956.61	6.61	2.96		0.00			0.00	2	0	0	0		0	508	9	0	0	0	0.00	0.00	498.76
09+80	957.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	508	9	0	0	0	0.00	0.00	498.78

EARTHWORK

Salvaged/Unsuable Pavement Material is included in Cut.
 Salvaged/Unusable Pavement Material is to be wasted

HWY: STH 83

PROJECT NO: 1330-01-72

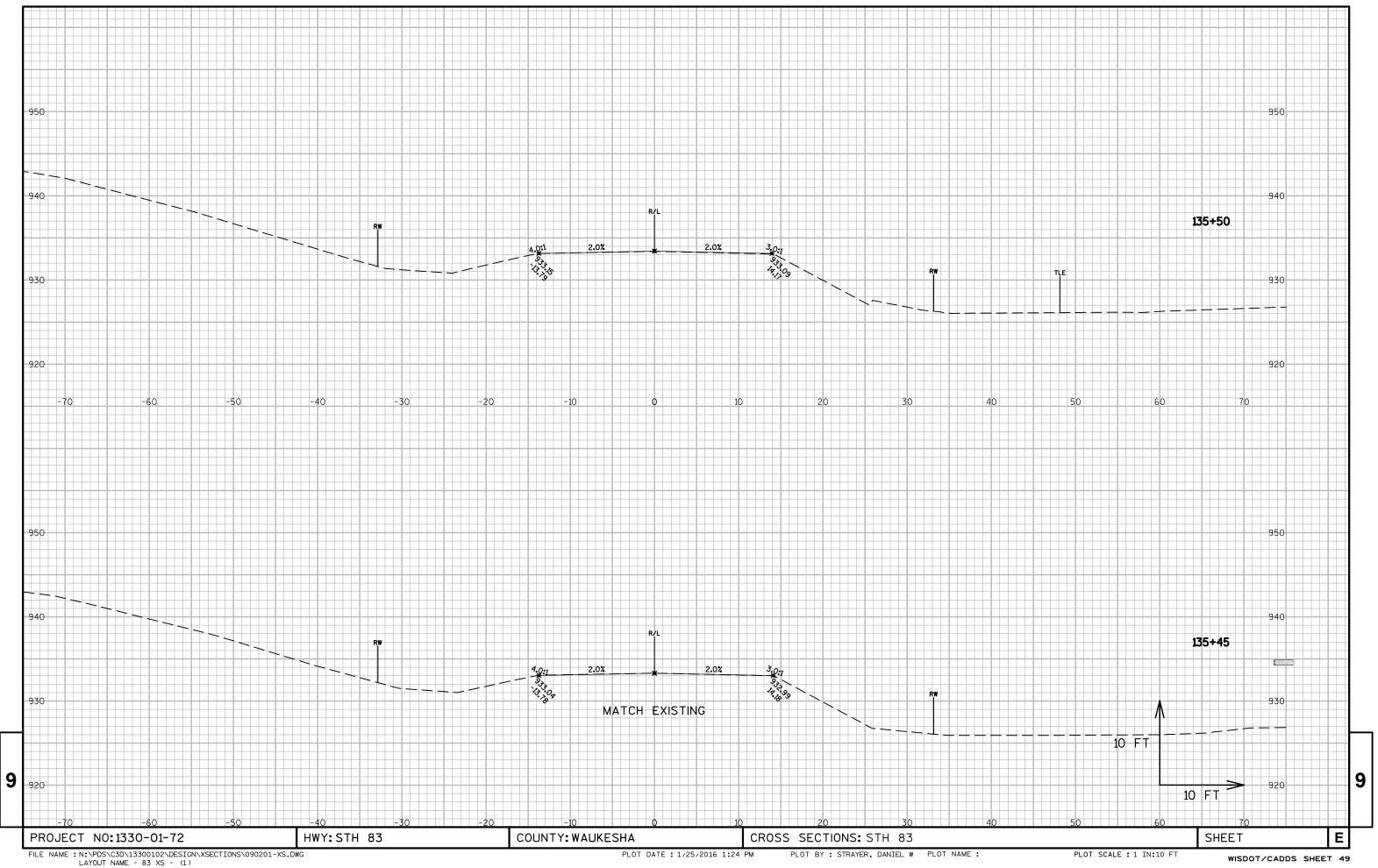
COUNTY: WAUKESHA PLOT DATE : _ PLOT BY : PLOT NAME : PLOT SCALE : 1:1 9

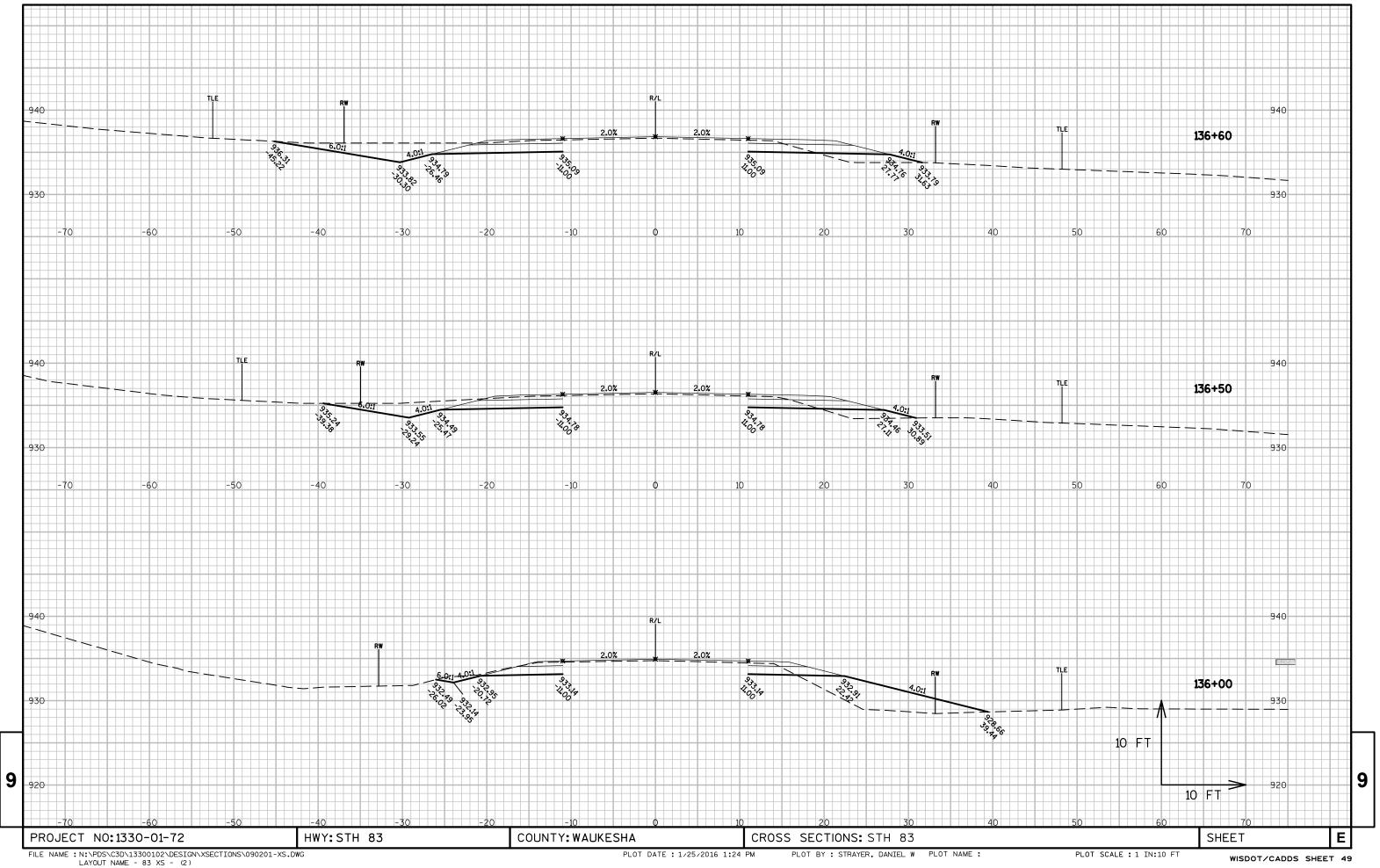
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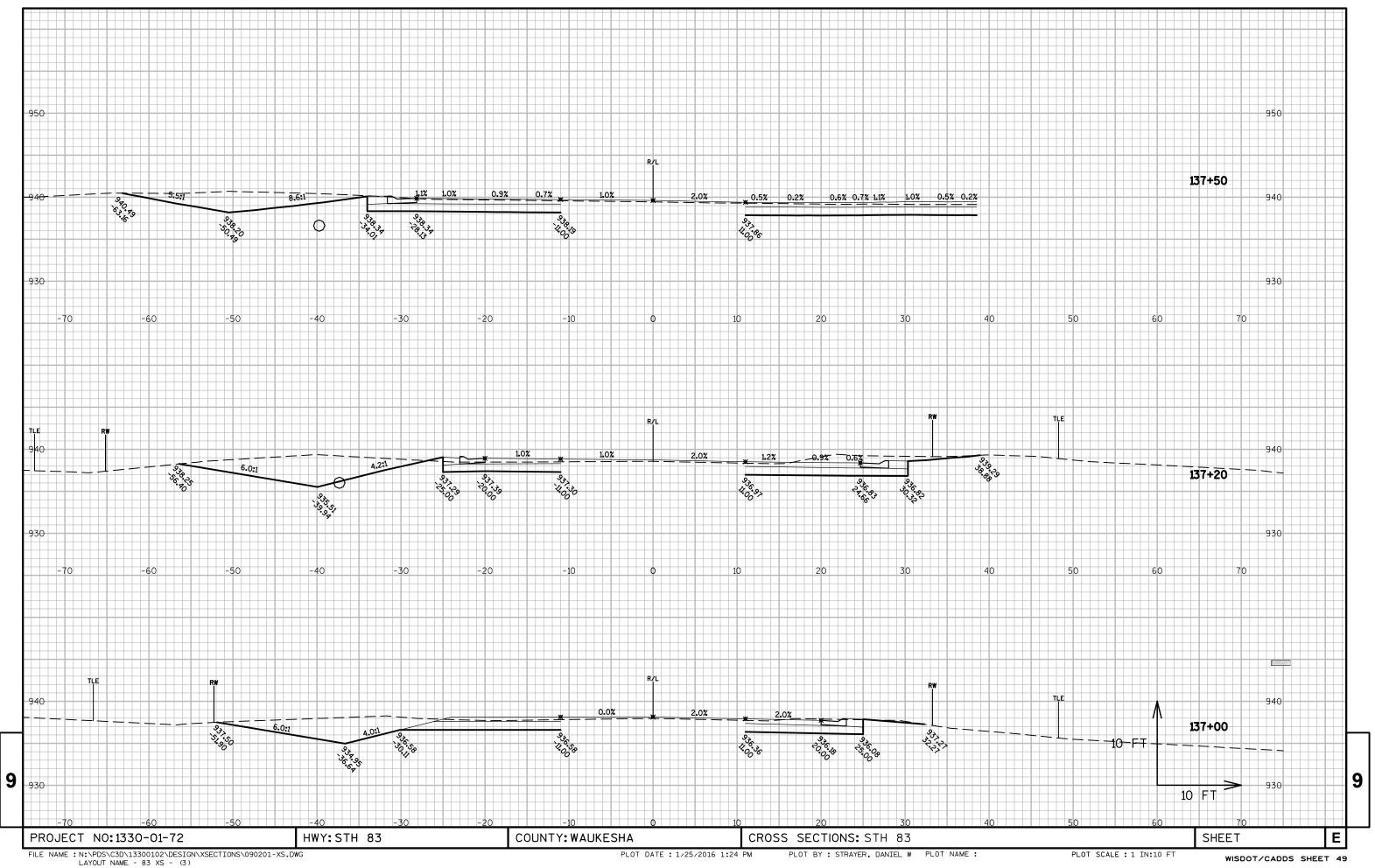
SHEET:

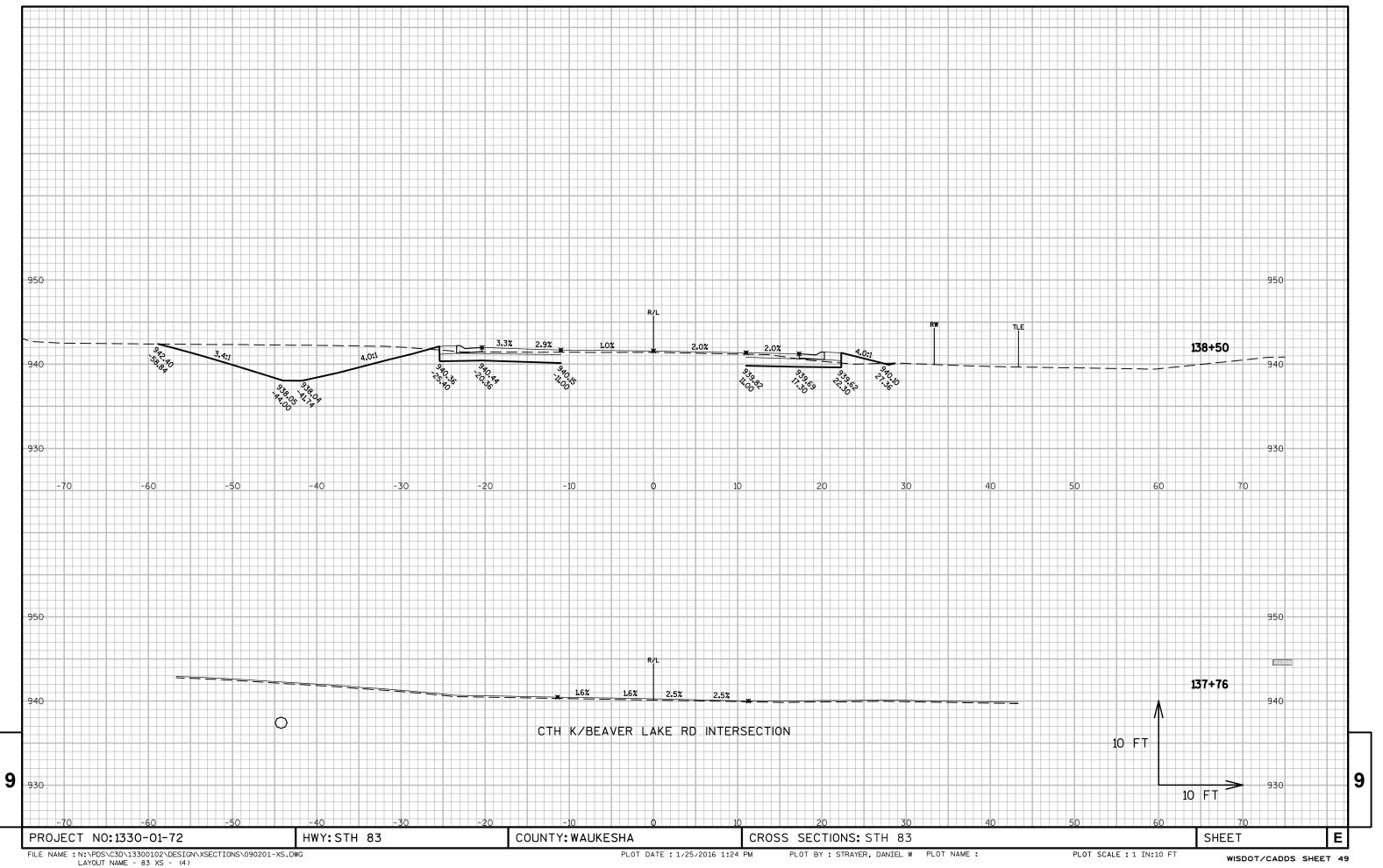
³⁾ Available Material = Cut - Salvaged/Unusuable Pavement Material 4) Expanded Fill. Factor = 1.2

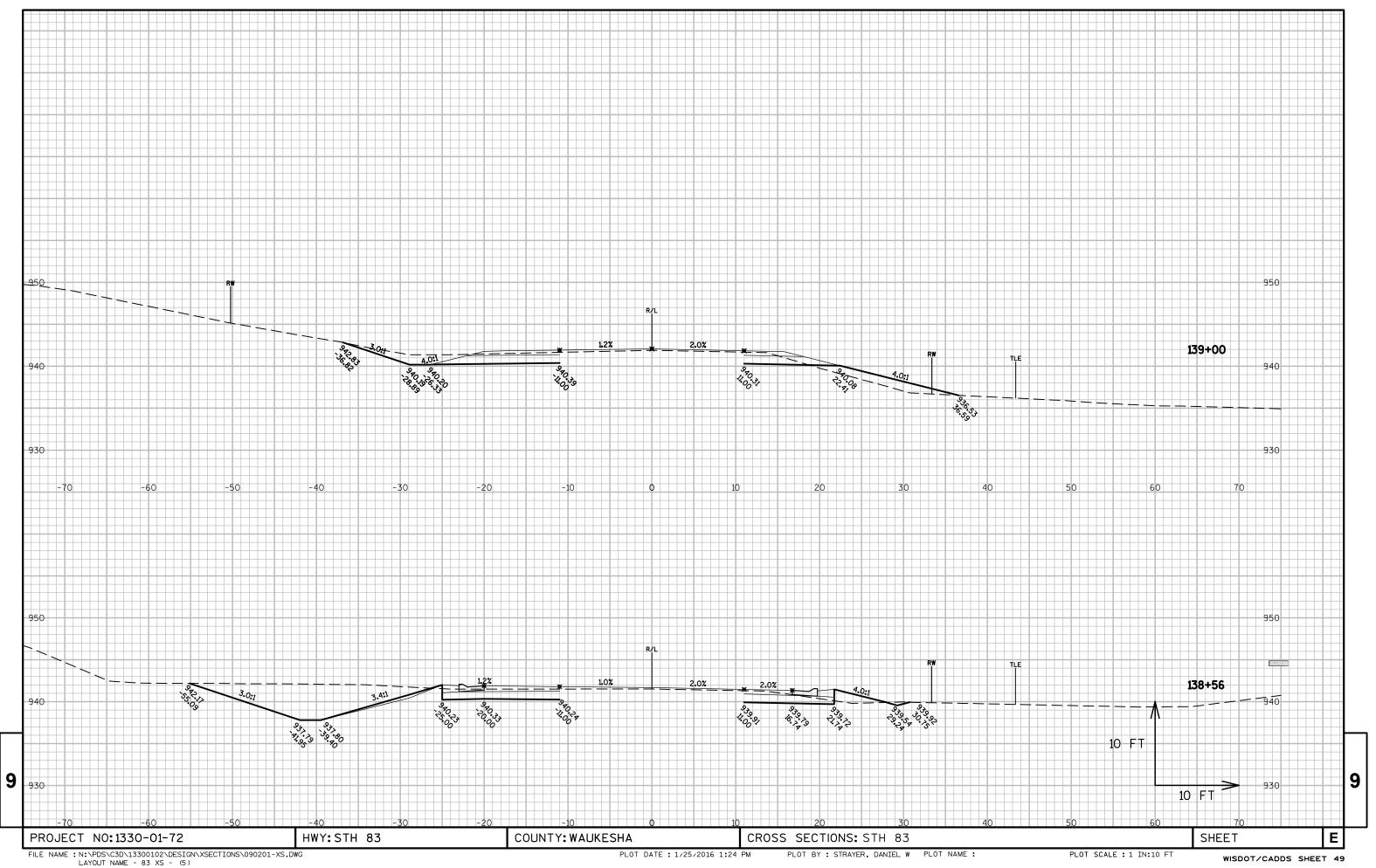
⁵⁾ The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

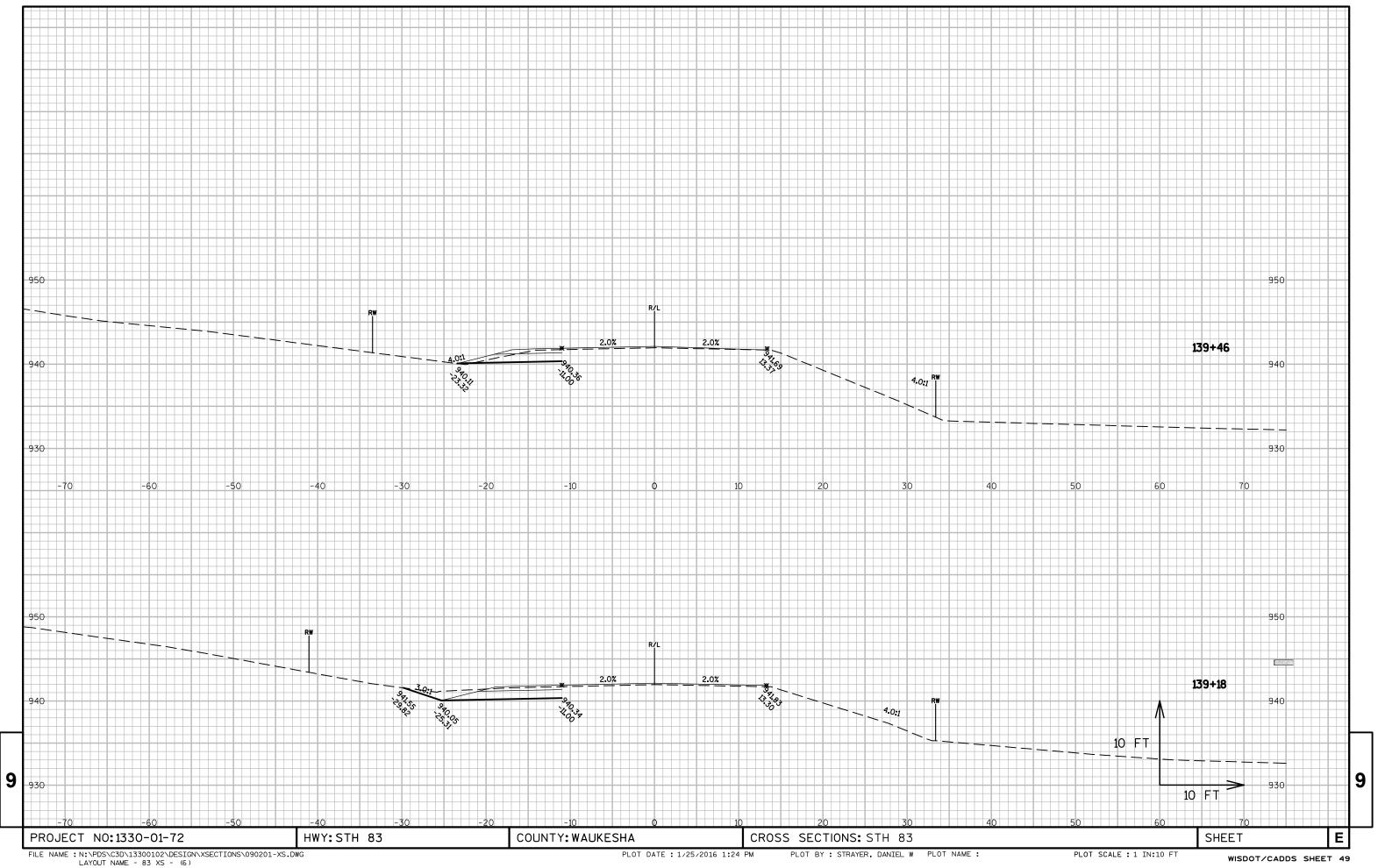


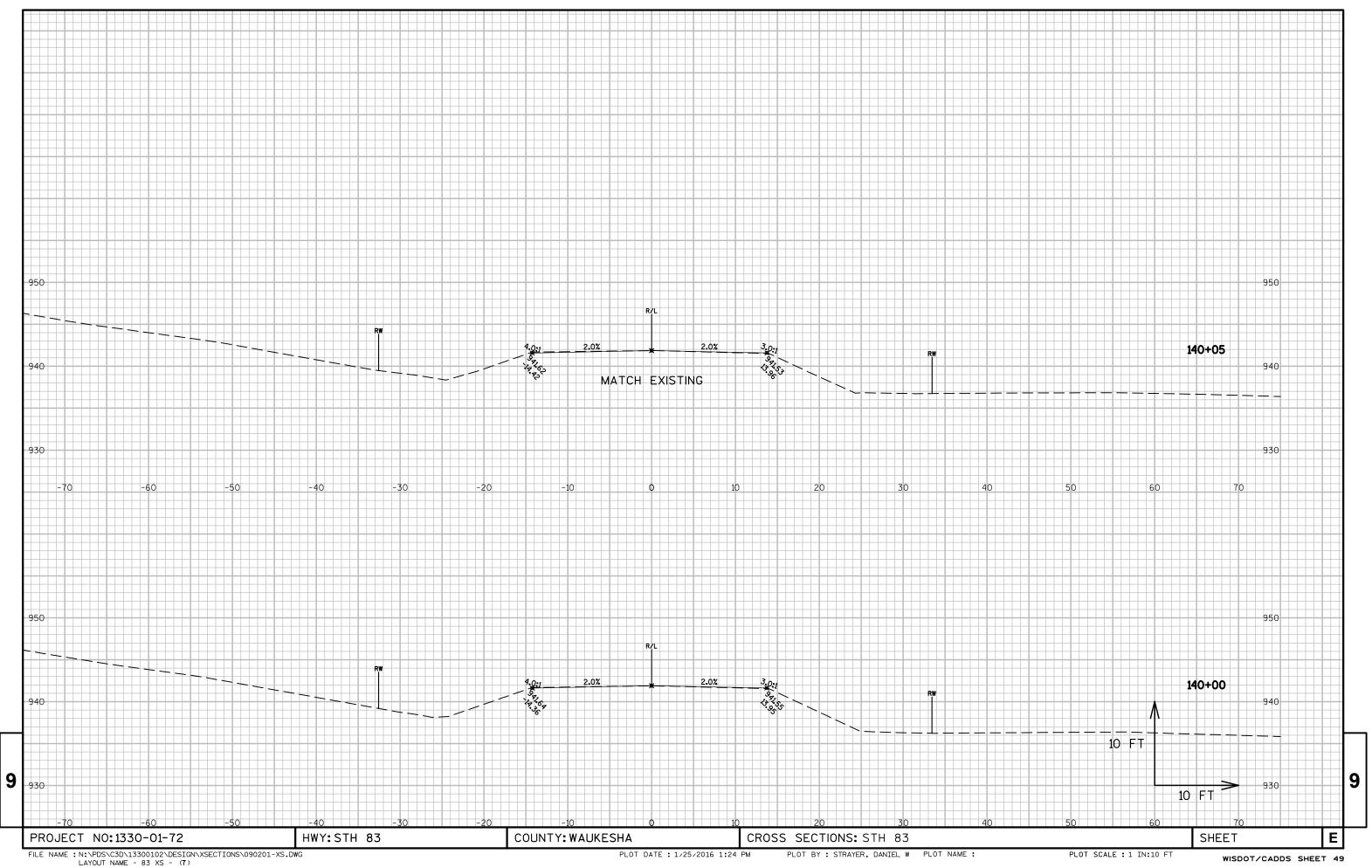


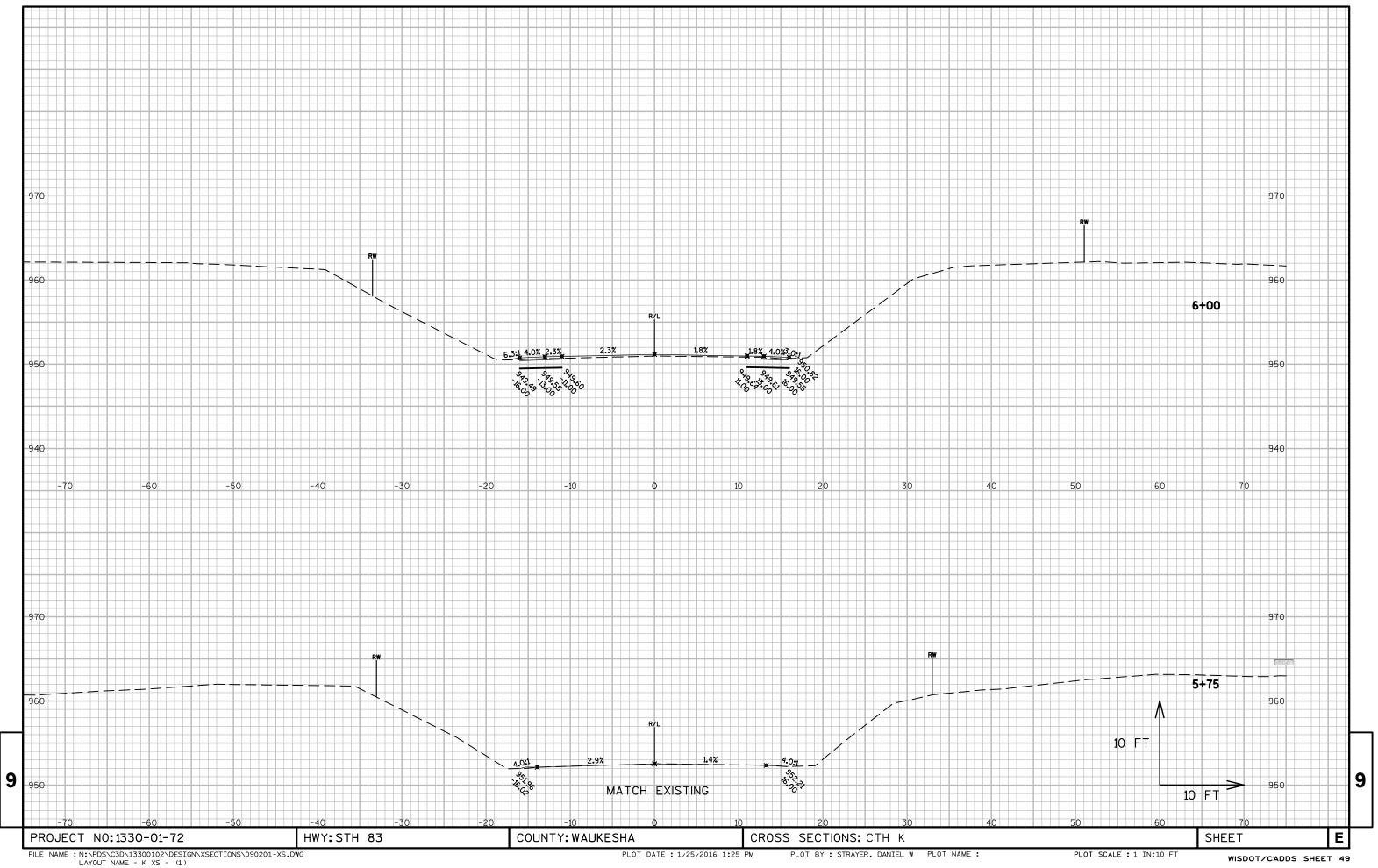


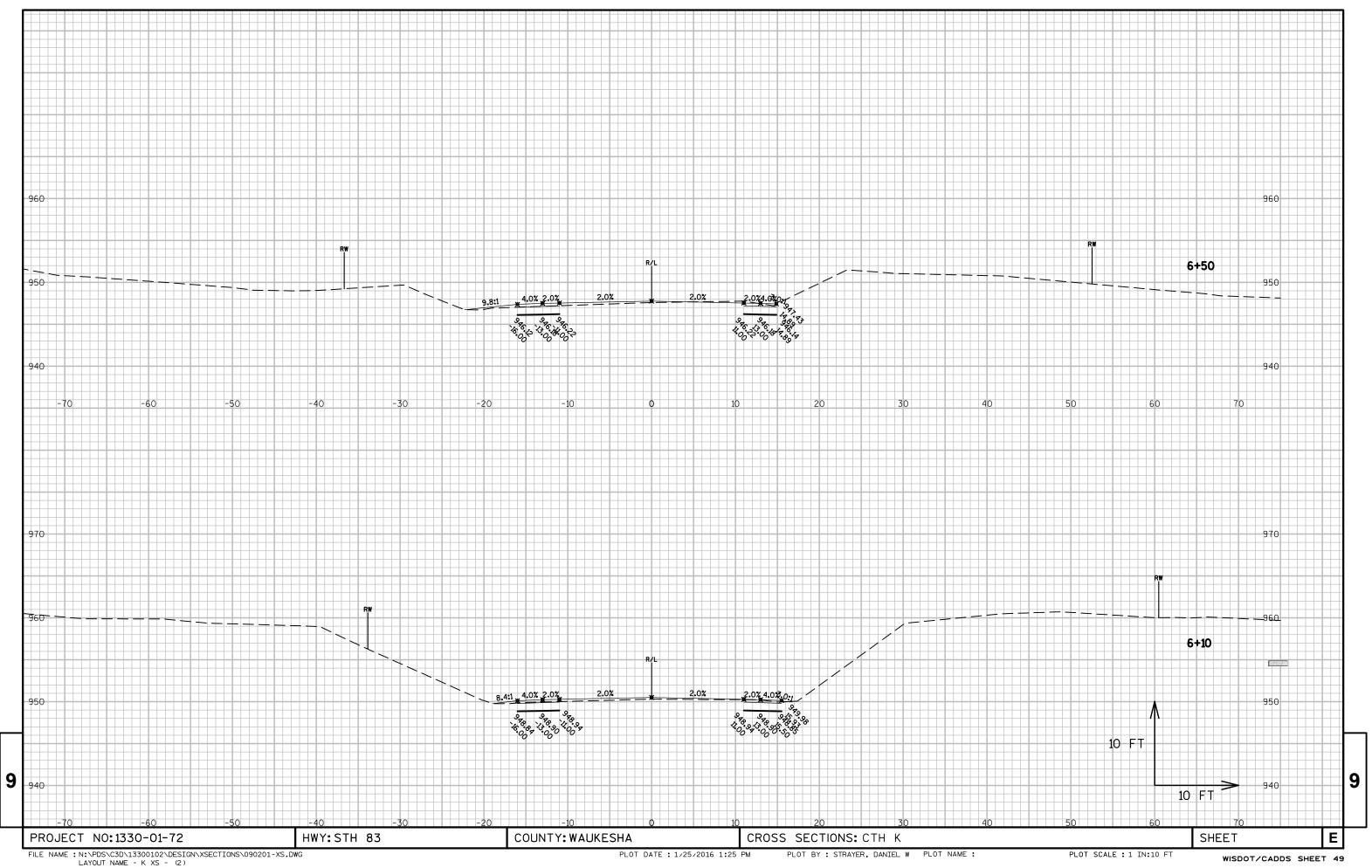


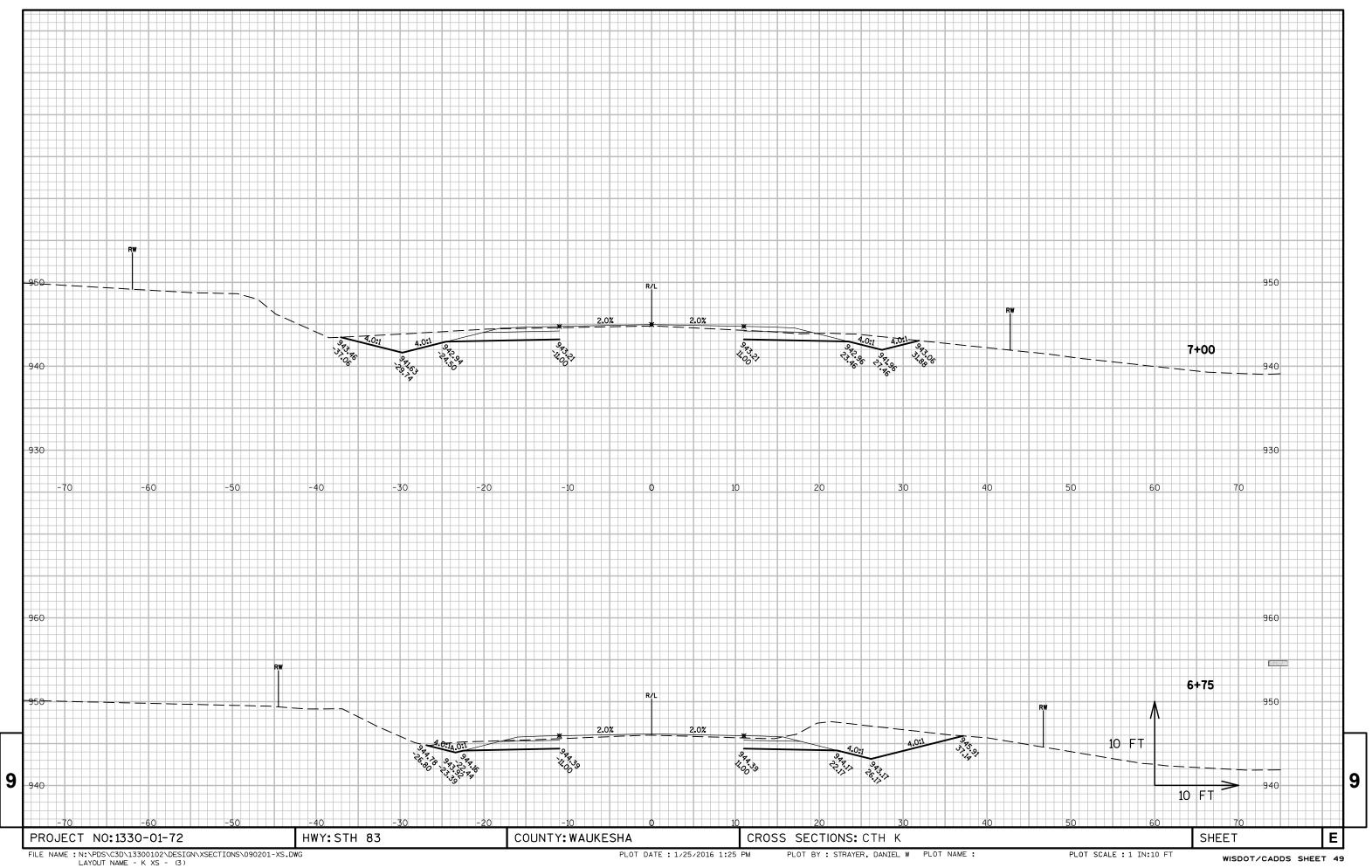


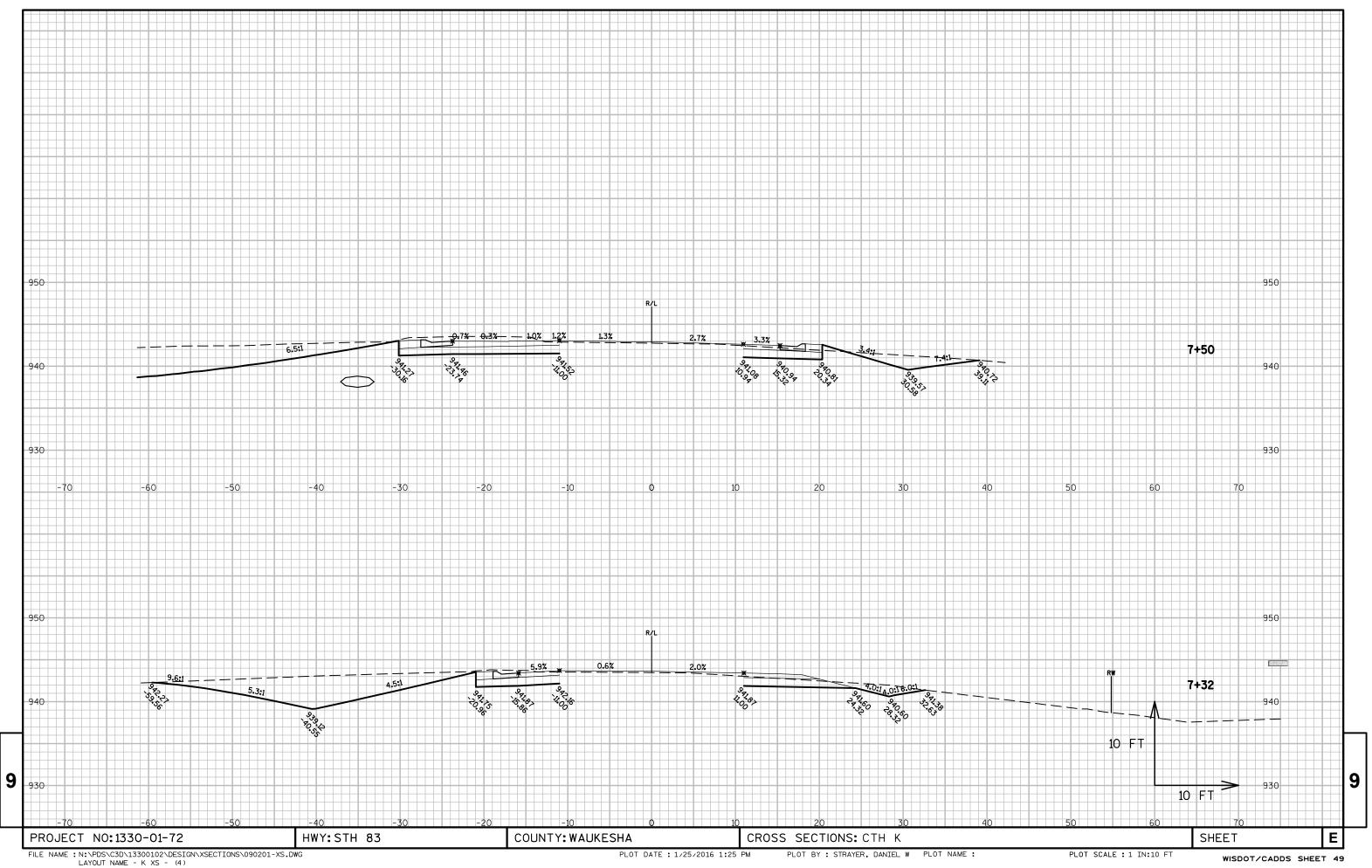


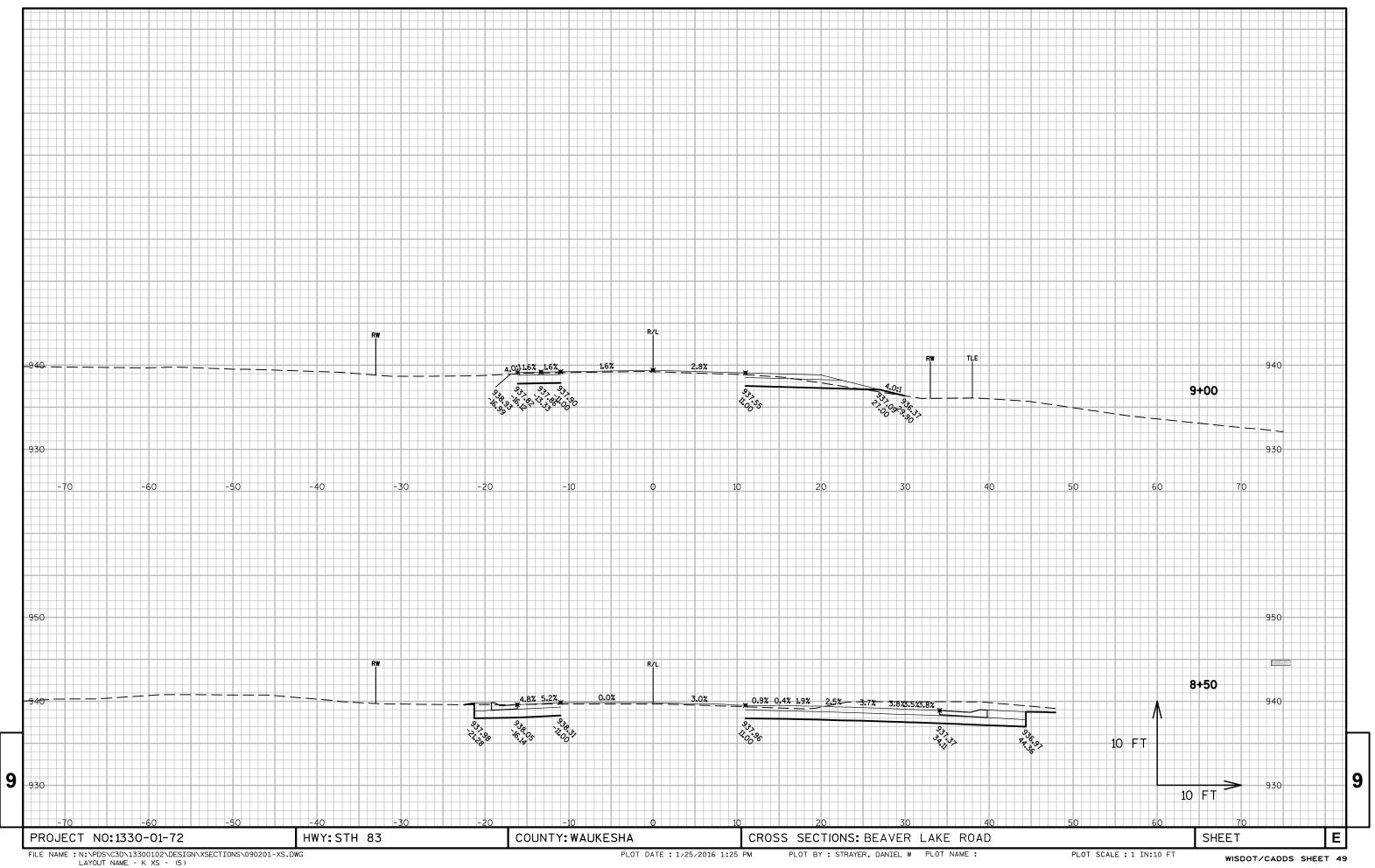


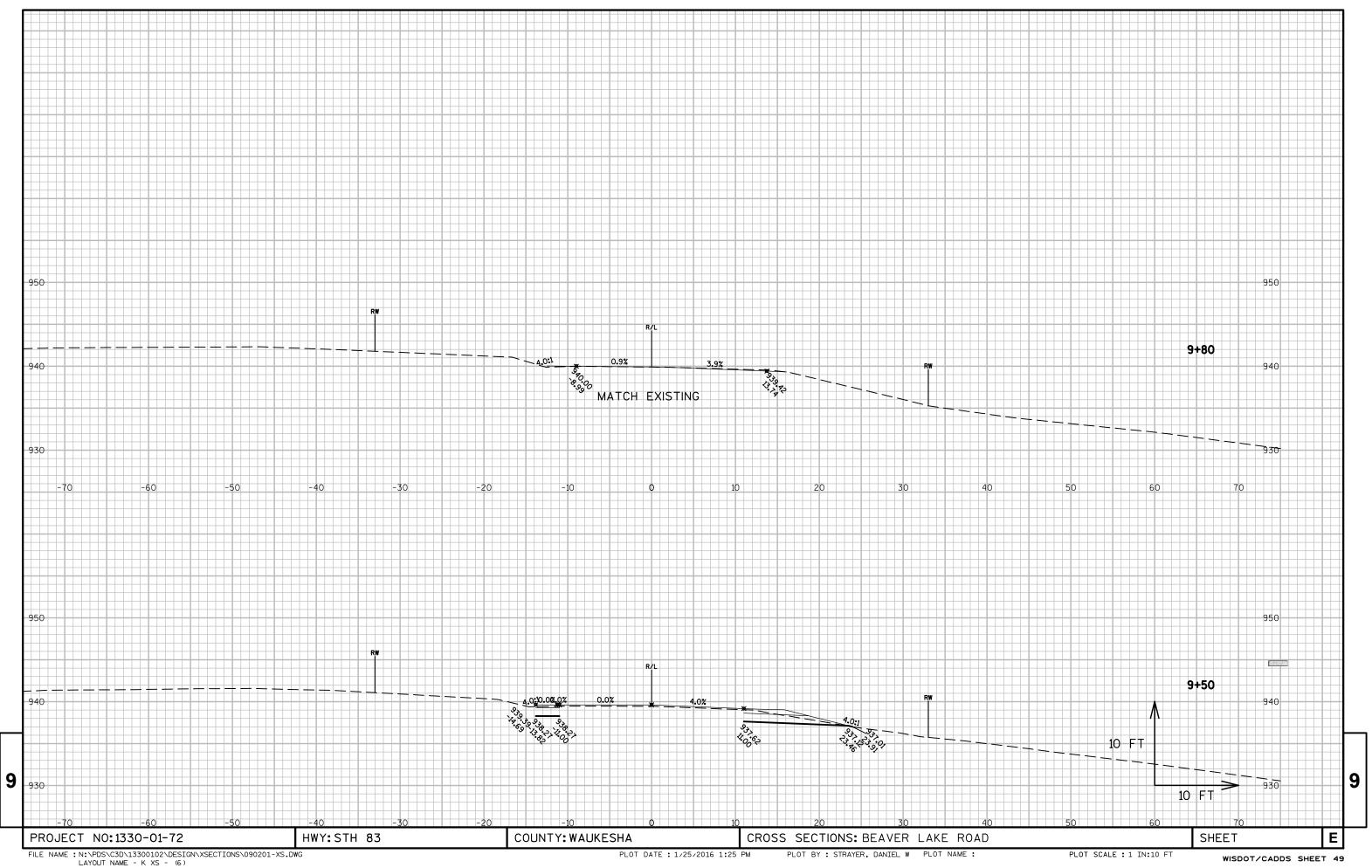












Notes



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