EAU

MARCH 2021

PROJECT ID: 7823-07-72

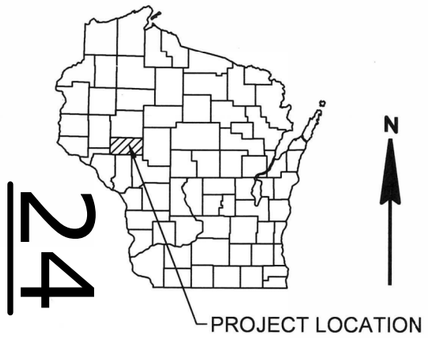
WITH: N/A

COUNTY: EAU CLAIRE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
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.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 210



DESIGN DESIGNATION

A.A.D.T.	2020	=	1523
A.A.D.T.	2040	=	2690
D.H.V.		=	347
D.D.		=	50
T.		=	8%
DESIGN SPEED		=	55
ESALS		=	300,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

FALL CREEK - NCL

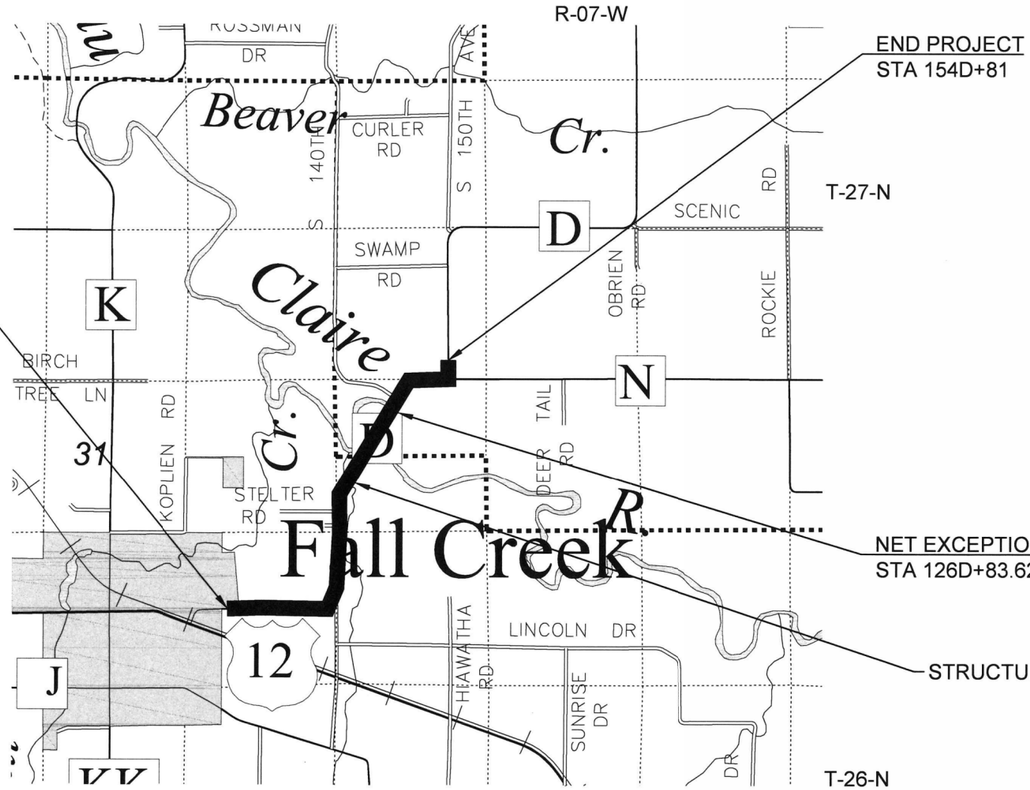
BOARDWALK STREET TO CTH N

CTH D

EAU CLAIRE COUNTY

STATE PROJECT NUMBER
7823-07-72

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7823-07-72	WISC 2021238	1



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 2.664 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), EAU CLAIRE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ACCEPTED FOR

COUNTY of EAU CLAIRE

10/30/2020 (Date) (Signature) HIGHWAY COMMISSIONER

ORIGINAL PLANS PREPARED BY

cbs²

WISCONSIN ROSS T. JOHNSON E-27897 EAU CLAIRE, WI PROFESSIONAL ENGINEER

DATE: 10/30/20 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	CBS SQUARED, INC
Designer	CBS SQUARED, INC
Project Manager	MATTHEW THORNSEN, PE
Regional Examiner	TOU YANG, PE
Regional Supervisor	ANDREW STENSLAND, PE

APPROVED FOR THE DEPARTMENT

DATE: 11/28/2021 (Signature)

E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\010101_TI.DWG

PLOT DATE : 10/26/2020 8:44 AM PLOT BY : CODY FELDMANN PLOT NAME :

GENERAL NOTES

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

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

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

PIPE ELEVATIONS, LENGTHS AND LOCATIONS AS SHOWN ON THE PLANS, MAY BE ADJUSTED TO FIX EXISTING FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL CURB AND GUTTER RADII, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF THE PAVEMENT UNLESS NOTED OTHERWISE.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

THE CONTRACTOR'S HMA PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN THE DRIVING, TURNING, PASSING OR PARKING LANE.

SUPERELEVATION RATES AS SHOWN ON THE PLAN SHEETS REPRESENT THE APPROXIMATE EXISTING RATES.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED.

4-INCH HMA PAVEMENT SHALL BE CONSTRUCTED WITH AN 1.75-INCH UPPER LAYER AND 2.25-INCH LOWER LAYER.

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

TEMPORARY STORAGE OF MATERIAL SHALL NOT BE PERMITTED IN WETLANDS.

DO NOT USE BENCHMARK COORDINATES AS CONTROL POINTS.

CONTROL POINT TABLE

		3/4-INCH REBAR		3/8-INCH SPIKE			
POINT NO.	STA	Y	X	Y	X	ELEVATION	REMARKS
CP1	-	261265.871	400451.366	-	-	-	
CP2	-	261257.360	401544.828	-	-	-	
CP3	-	261351.602	402958.672	-	-	-	
CP4	-	261361.223	404143.710	-	-	-	
CP5	-	261827.282	404997.565	-	-	-	
CP6	-	263275.374	404966.648	-	-	-	
CP7	-	264147.252	404960.221	-	-	-	
CP8	-	265023.168	404957.004	-	-	-	
CP9	-	266450.960	405875.534	-	-	-	
CP10	-	267591.210	406612.873	-	-	-	
CP11	-	268666.725	407003.568	-	-	-	
CP12	-	269061.179	407196.163	-	-	-	
CP13	-	269291.394	407637.006	-	-	-	
CP14	-	269309.015	408930.785	-	-	-	
BM10	10+83	-	-	261303.12	400458.19	934.44	HYDRANT BURY BOLT
BM11	36+64	-	-	261298.49	403041.04	949.76	POWER POLE
BM12	58+03	-	-	261812.00	404939.68	927.29	POWER POLE
BM13	83+10	-	-	264314.38	405014.73	930.06	POWER POLE
BM14	107+01	-	-	266471.49	405823.28	863.27	24-INCH TREE
BM15	126+84	-	-	268160.95	406848.26	873.51	CHISELED SQUARE IN ABUTMENT
BM16	142+55	-	-	269312.11	407752.78	958.17	POWER POLE

RUNOFF COEFFICIENT TABLE

A	HYDROLOGIC SOIL GROUP											
	B		C							D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE: TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 22.64 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.00 ACRES

BORING LOG

NO.	STA	ASPH. THICKNESS (INCHES)	BASE FILL (INCHES)
1	17+90	3.5	10
2	29+80	2.5	30
3	48+50	2.25	7
4	61+40	2.75	5
5	75+40	2.5	4
6	89+90	1.75	7
7	109+90	2.75	21
8	125+40	4	4
9	137+20	1.75	9
10	151+80	2	7

BOARDWALK TO CTH N
GROUND PENETRATING RADAR RESULTS

AVERAGE SURFACE THICKNESS = 2.5 INCHES
15TH PERCENTILE = 2.2 INCHES

AVERAGE BASE THICKNESS = 7.0 INCHES
15TH PERCENTILE = 5.3 INCHES

DATUM

HORIZ: NAD 83 (2011), WISCRS EAU CLAIRE CO.
VERT: NAVD 88 (2012), GEOID WI-12A
NORTHING = Y EASTING = X

UTILITY CONTACTS

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VILLAGE PRESIDENT
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WISDOT CONTACT
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UNION PACIFIC
CHRIS T. KECKEISEN
MANAGER SPECIAL PROJECTS
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CTKECKSEI@UP.COM

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BRET.CLARK@CENTURYLINK.COM

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8214 HWY 12
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JVANINGAN@ECEC.COM

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JARED.MCKEE@FALLCREEKWI.GOV

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105 KENT ST
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IRON MOUNTAIN, MI 49801
RUSSELL KENNY
(906) 282-6434 (CELL)
RUSSELL-KENNY@ASTREA.COM

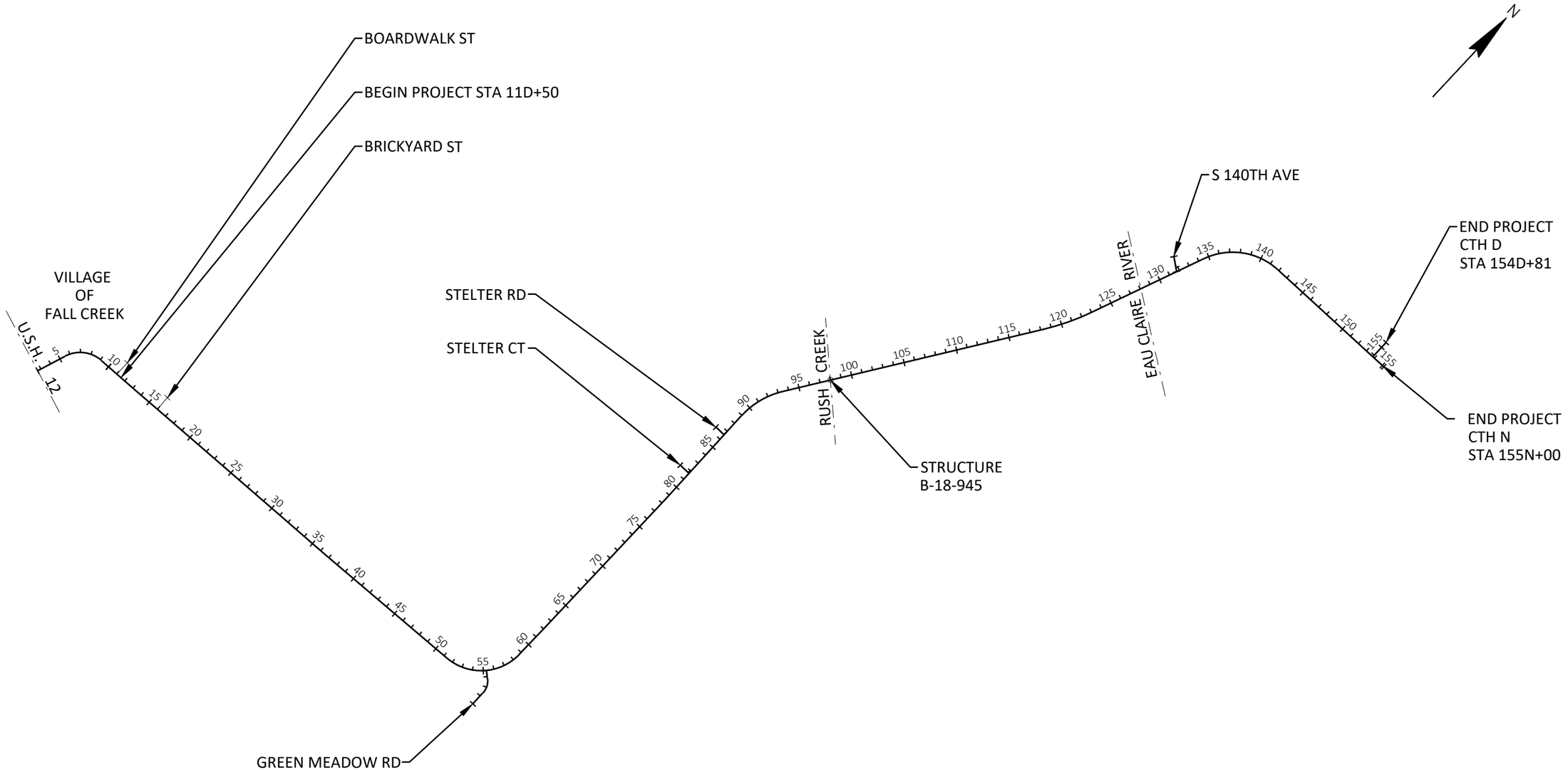
XCEL ENERGY - ELECTRICITY-TRANSMISSION
1414 W HAMILTON AVENUE
P.O. BOX 8
EAU CLAIRE, WI 54702-0008
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(612) 321-3109
(608) 386-2235 (CELL)
MITCHELL.DIENGER@XCELENERGY.COM

XCEL ENERGY - ELECTRICITY
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(715) 491-7518 (CELL)
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XCEL ENERGY - GAS/PETROLEUM
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DIGGERS HOTLINE
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www.DiggersHotline.com

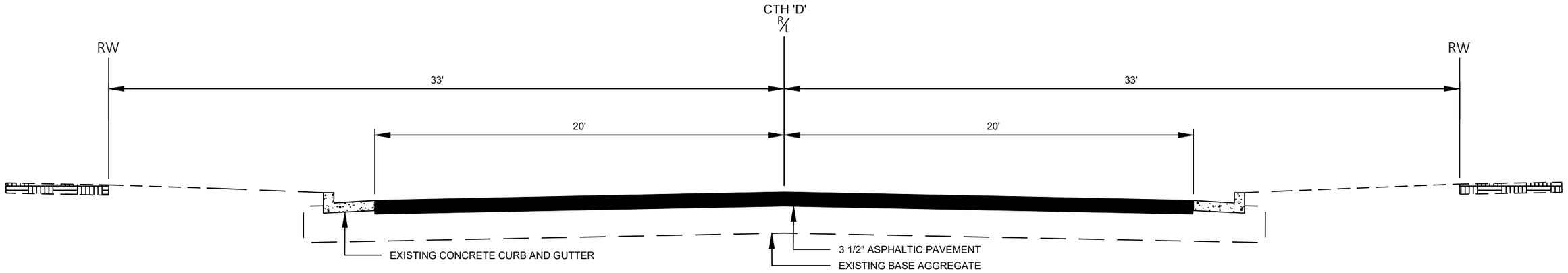
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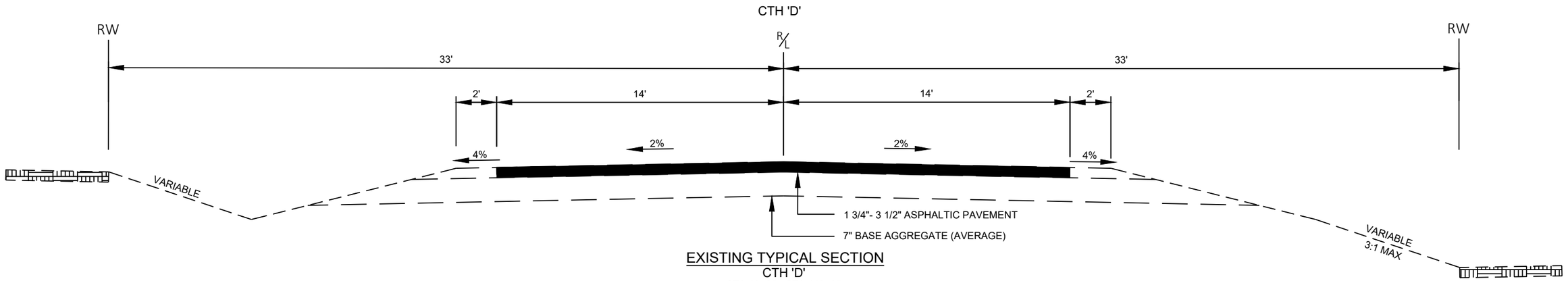
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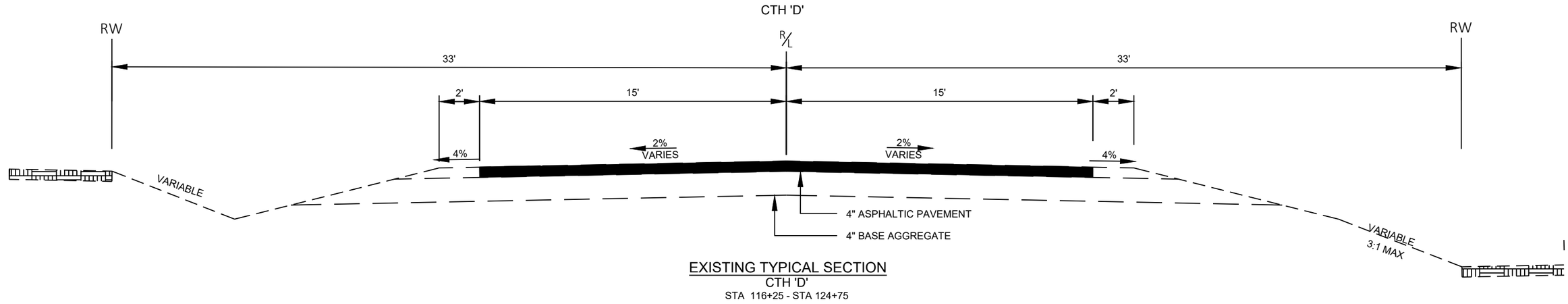
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EXISTING TYPICAL SECTION
CTH 'D'
STA 11+50 - STA 13+25



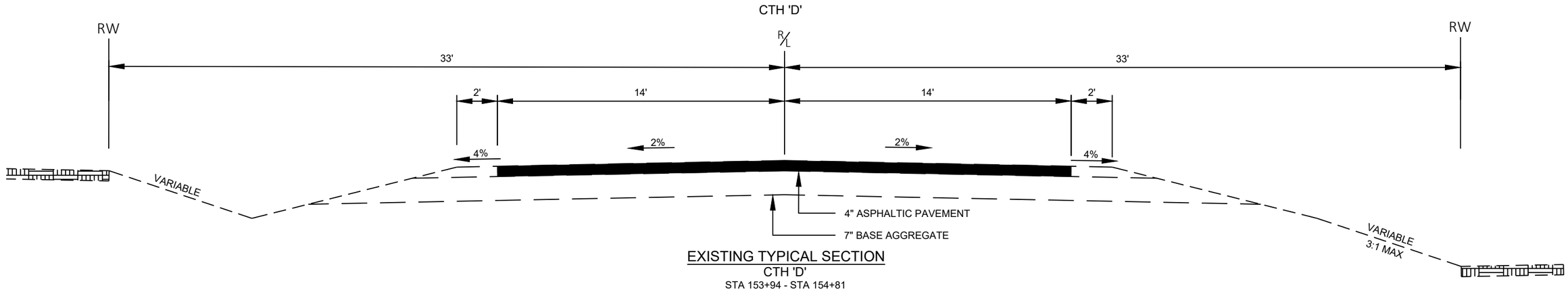
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CTH 'D'
STA 13+25 - STA 116+25
STA 129+75 - STA 153+80
STA 153+94 - STA 154+81



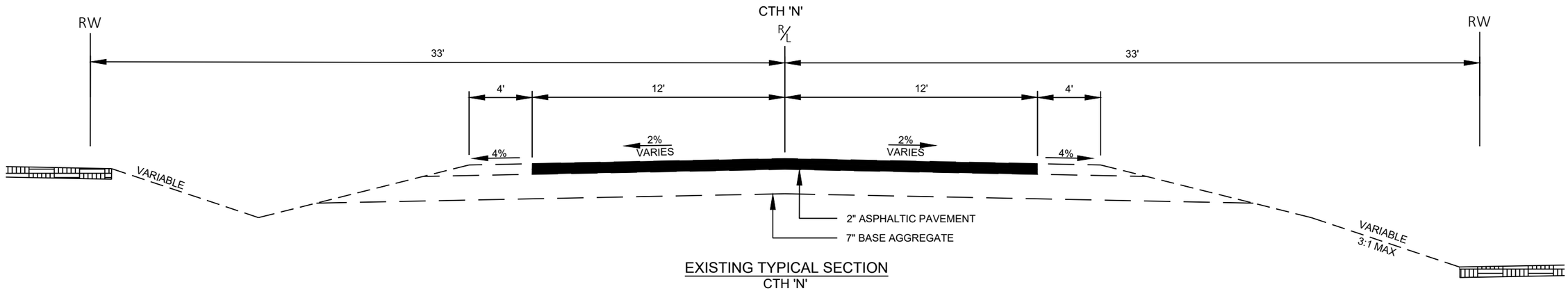
EXISTING TYPICAL SECTION
CTH 'D'
STA 116+25 - STA 124+75

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TYPICAL SECTION	SHEET 4	E

2



EXISTING TYPICAL SECTION
CTH 'D'
STA 153+94 - STA 154+81



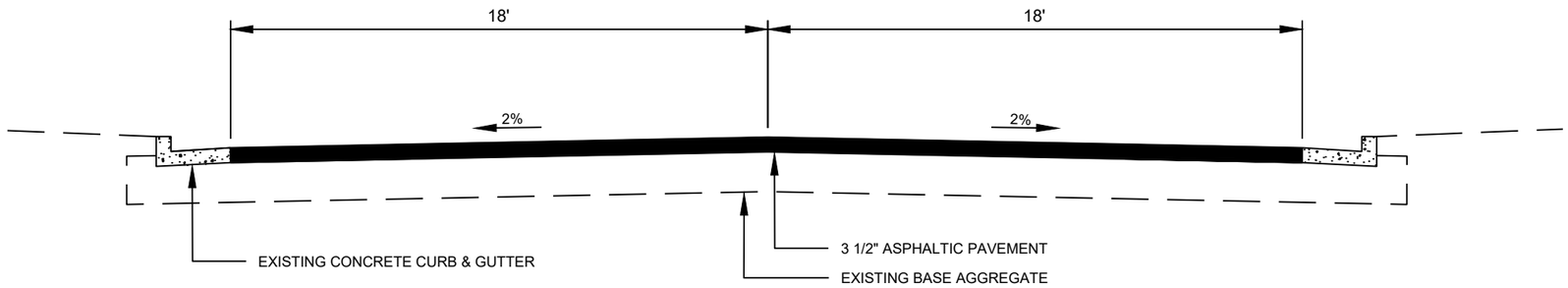
EXISTING TYPICAL SECTION
CTH 'N'
STA 153N+80 - STA 155N+00

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TYPICAL SECTION	SHEET 5	E

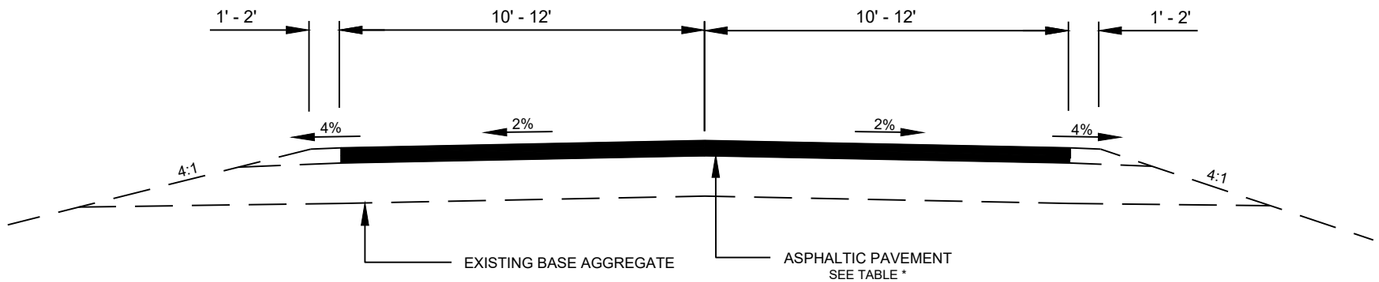
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LAYOUT NAME - TS_EXIST_154+50 - 154+81

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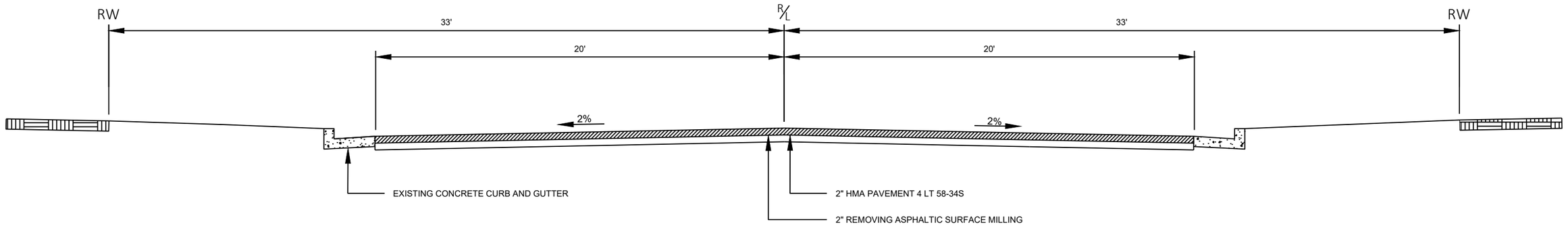


EXISTING TYPICAL SECTION
BRICKYARD STREET



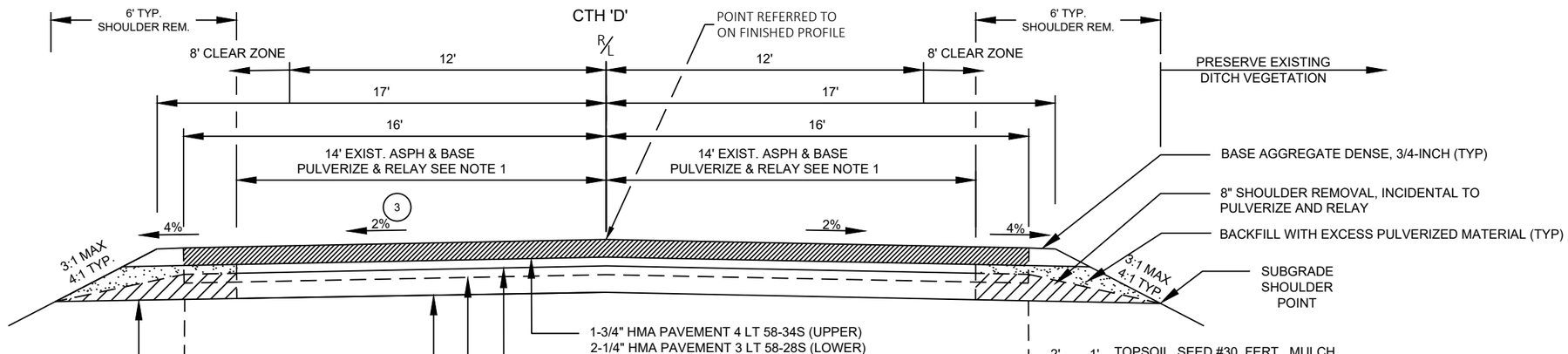
EXISTING TYPICAL SECTION
GREEN MEADOW RD
STELTER CT
STELTER RD
S. 140TH ST

*EXISTING SIDE ROADS	
ROAD	ASPHALTIC PAVEMENT DEPTH
GREEN MEADOW RD	2"
STELTER CT	1 1/2"
STELTER RD	2"
140TH ST	3"



FINISHED TYPICAL SECTION

CTH 'D'
STA 11+50 - STA 13+25



FINISHED TYPICAL SECTION

CTH 'D'
STA 13+25 - STA 49+53

FINISHED TYPICAL SECTION

CTH 'D'
36" CURB & GUTTER
6" SLOPED CURB TYPE D
STA 35+00 - STA 37+00 LT

FINISHED TYPICAL SECTION

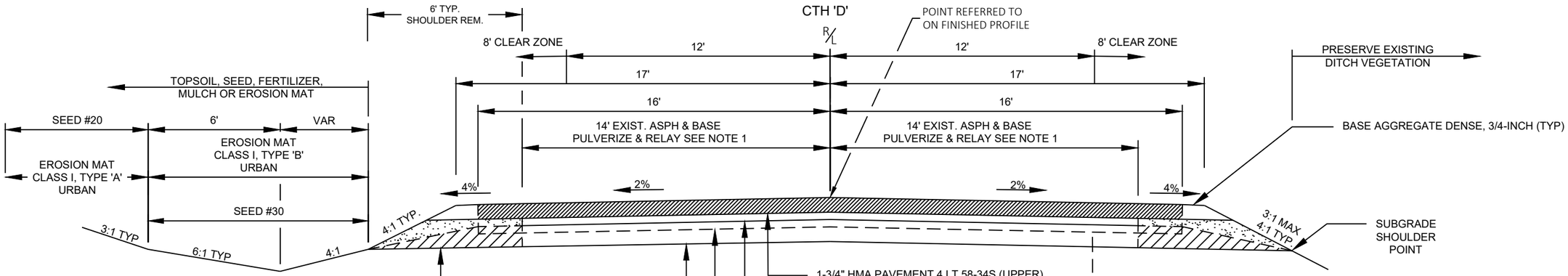
CTH 'D'
36" CURB & GUTTER
6" SLOPED CURB TYPE D
STA 34+25 - STA 36+75 RT

NOTES

1. ADD BASE AGGREGATE SPECIAL SEE SPECIAL PROVISIONS
2. CONSTRUCT 8-INCH THICK SINGLE LAYER AFTER BACKFILLING SHOULDERS
3. 3% CROSS SLOPE STA 15D+20, LT - STA 16D+80, LT
4. STABILIZED BASE RECLAMATION IS APPLIED TO FULL WIDTH OF PAVED SHOULDER

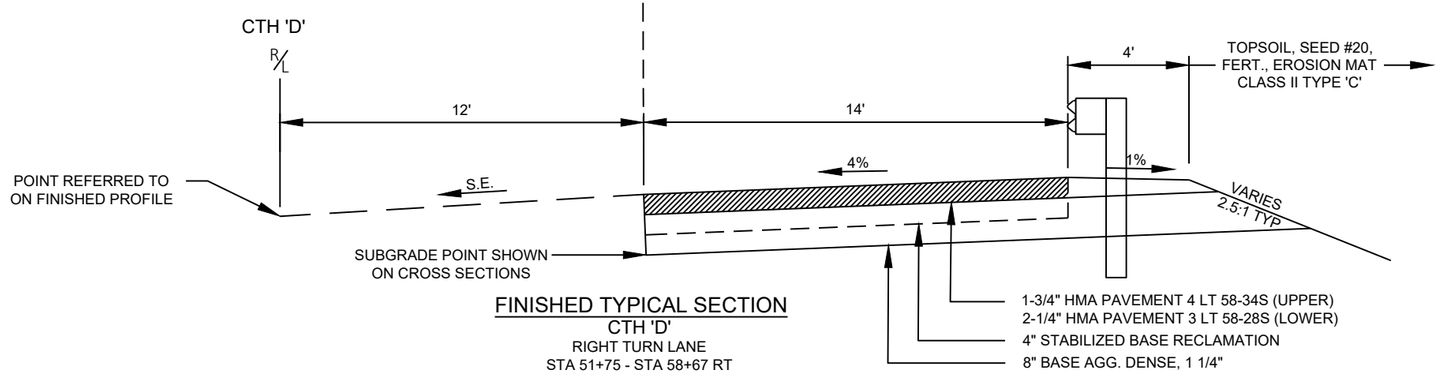
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TYPICAL SECTION	SHEET 7	E

2



FINISHED TYPICAL SECTION
CTH 'D'
TYPICAL DITCHING
STA 52+50 - STA 60+50 LT

FINISHED TYPICAL SECTION
CTH 'D'
STA 49+53 - STA 61+00



FINISHED TYPICAL SECTION
CTH 'D'
RIGHT TURN LANE
STA 51+75 - STA 58+67 RT

NOTES

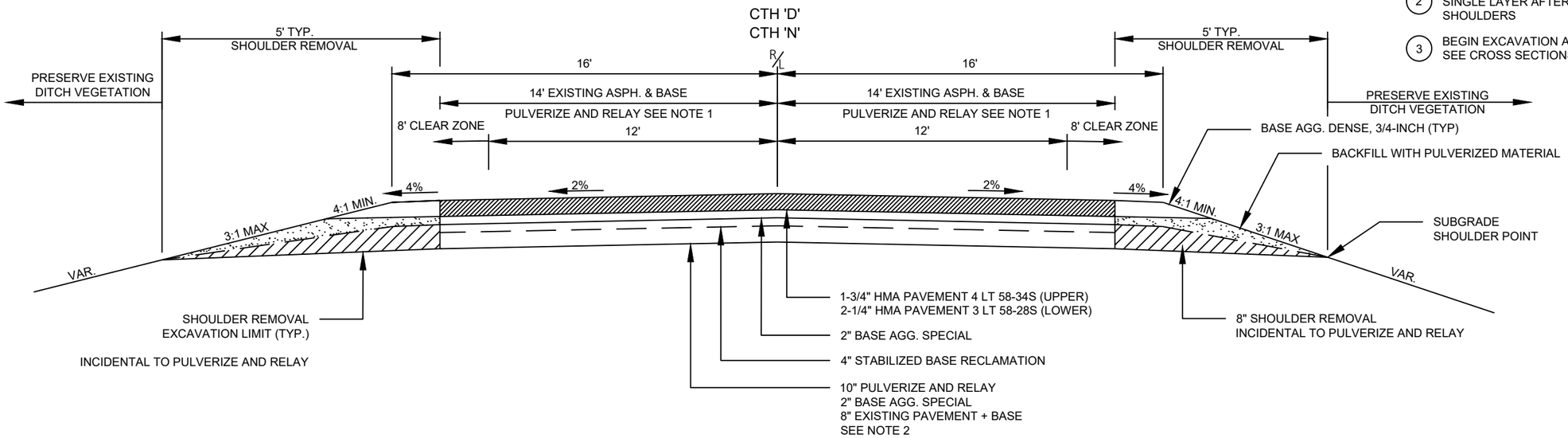
1. ADD BASE AGGREGATE SPECIAL SEE SPECIAL PROVISIONS
2. CONSTRUCT 8-INCH THICK SINGLE LAYER AFTER BACKFILLING SHOULDERS
3. SHOULDER REMOVAL PAID AS EXCAVATION COMMON. BACKFILL WITH EXCESS PULVERIZED MATERIAL.
4. STABILIZED BASE RECLAMATION IS APPLIED TO FULL WIDTH OF PAVED SHOULDER

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TYPICAL SECTION	SHEET 8	E

2

NOTES

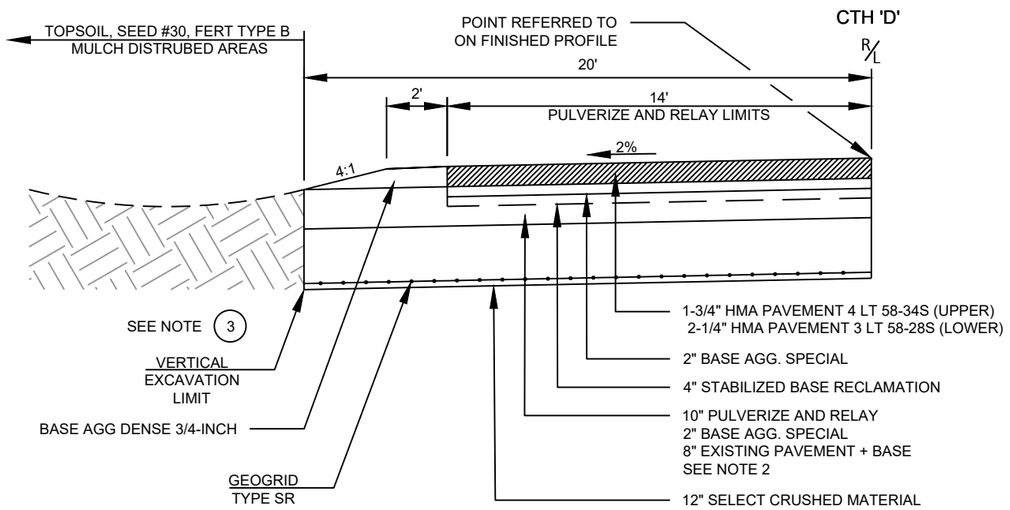
1. ADD BASE AGGREGATE SPECIAL SEE SPECIAL PROVISIONS
2. CONSTRUCT 8-INCH THICK SINGLE LAYER AFTER BACKFILLING SHOULDERS
3. BEGIN EXCAVATION AT STA 130+40 SEE CROSS SECTIONS



FINISHED TYPICAL SECTION

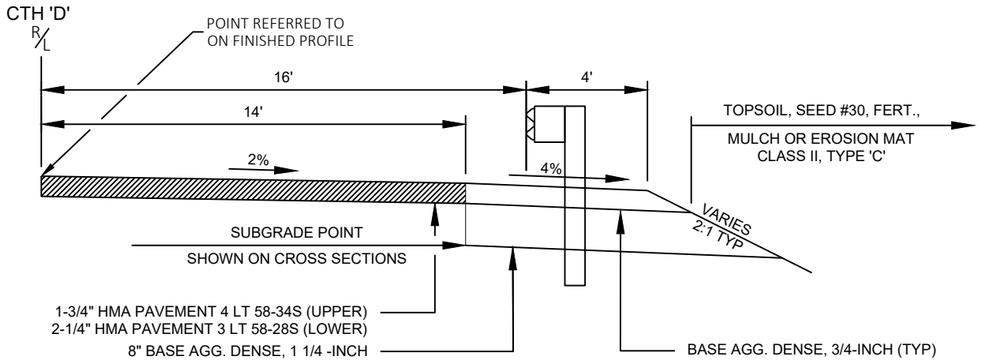
CTH 'D'
STA 61+00 - STA 86+00
STA 93+00 - STA 116+25
STA 131+75 - STA 154+81

CTH 'N'
STA 153+80 - STA 155+00



FINISHED TYPICAL HALF - SECTION

CTH 'D'
STA 130'D'+25 - STA 131'D'+75



FINISHED TYPICAL SECTION, SHOULDER WIDENING

CTH 'D'
STA 148+50 - STA 153+80 RT
CTH 'N'
STA 153+81 - STA 154+00 RT

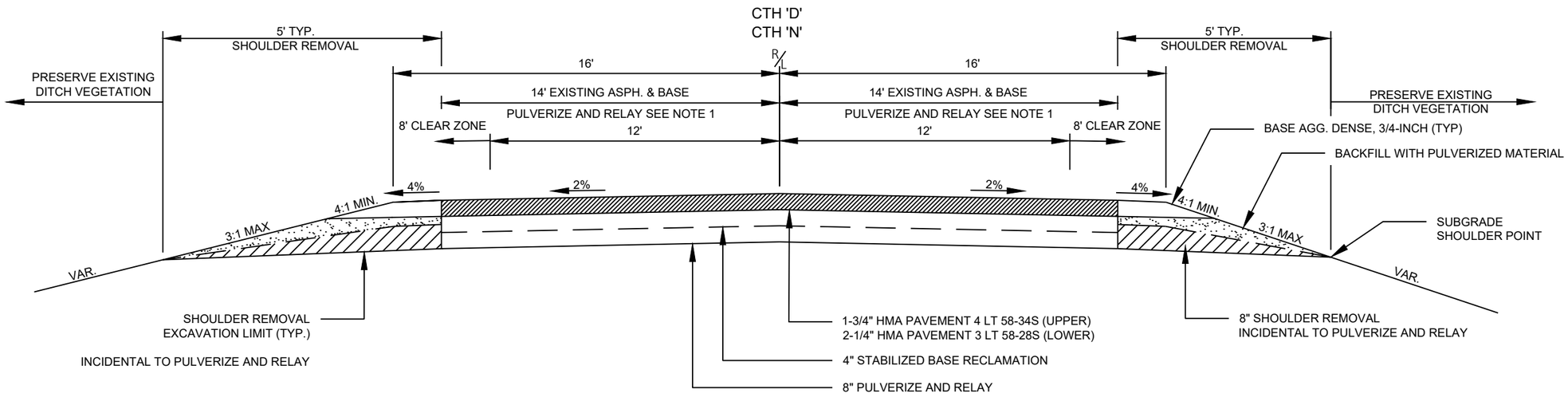
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PLOT DATE : 1/14/2021 1:32 PM
PLOT BY : CODY FELDMANN
PLOT NAME :
PLOT SCALE : 1 IN:5 FT
WISDOT/CADDS SHEET 42

2

NOTES

1. PULVERIZE FULL EXISTING PAVEMENT WIDTH (15'). RESTORE 32' ROADWAY WIDTH AS SHOWN.
2. CONSTRUCT 8-INCH THICK SINGLE LAYER AFTER BACKFILLING SHOULDERS



FINISHED TYPICAL SECTION

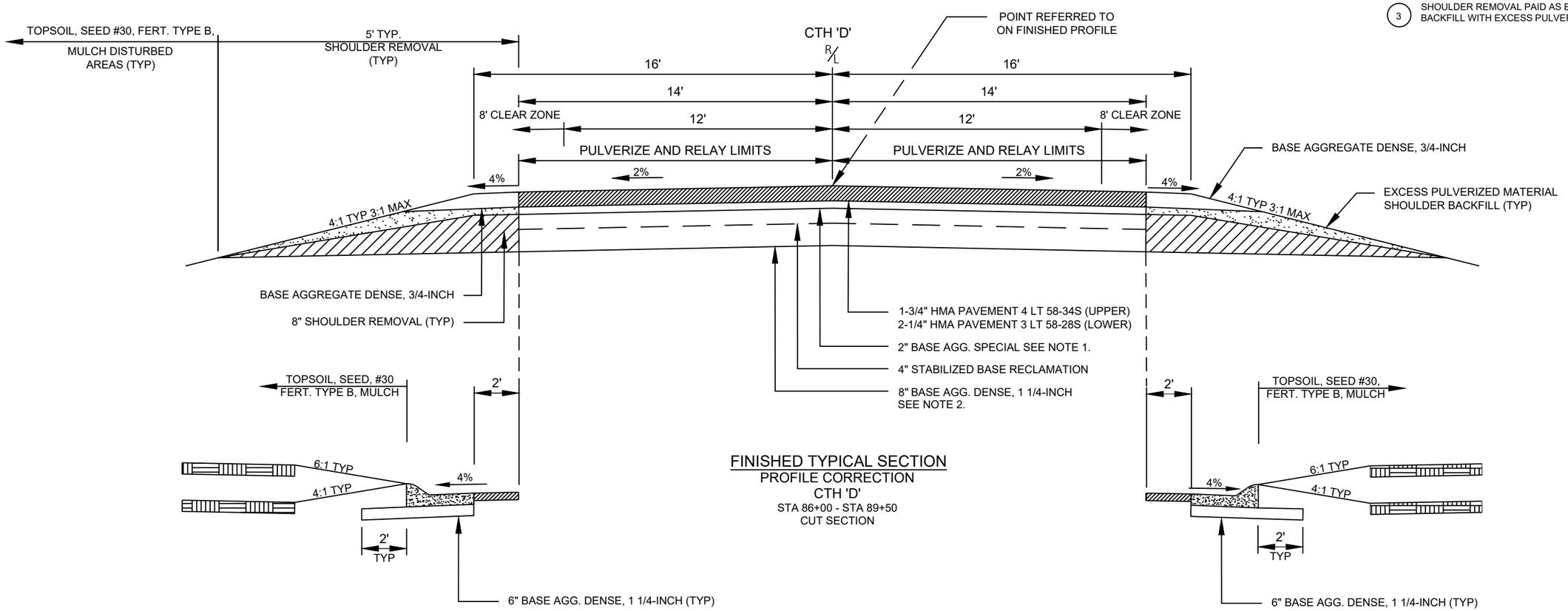
CTH 'D'
STA 116+25 - STA 124+75

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TYPICAL SECTION	SHEET 10	E

2

NOTES

1. ADD BASE AGGREGATE SPECIAL SEE SPECIAL PROVISIONS
2. 10" PULVERIZE AND RELAY EXISTING PAVEMENT, BASE, AND BASE AGG. SPECIAL. MOVE PULVERIZED MATERIAL TO FILL SECTION STA 89+50 - STA 93+00. BACKFILL WITH 8" BASE AGG. DENSE, 1 1/4"-INCH.
3. SHOULDER REMOVAL PAID AS EXCAVATION COMMON. BACKFILL WITH EXCESS PULVERIZED MATERIAL.



FINISHED TYPICAL SECTION
PROFILE CORRECTION
CTH 'D'
STA 86+00 - STA 89+50
CUT SECTION

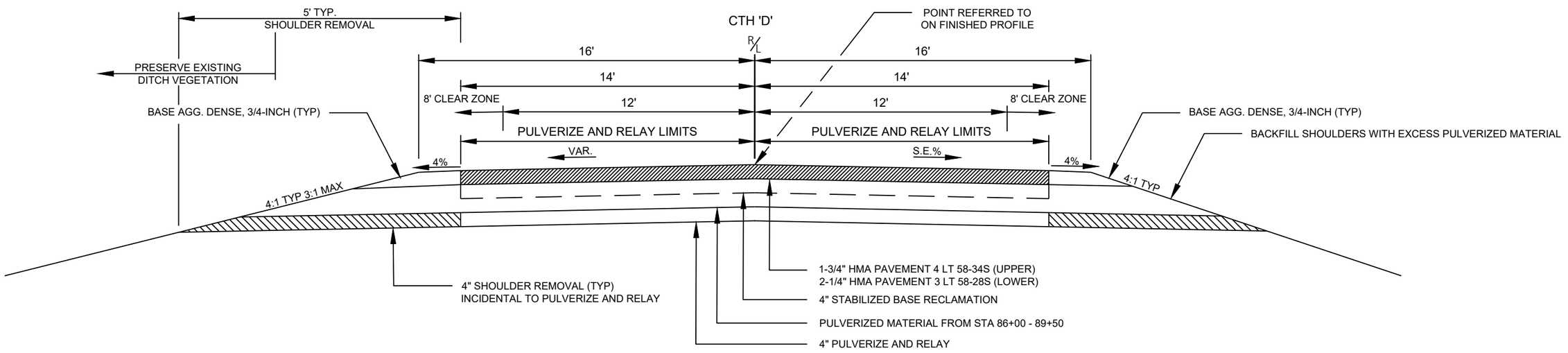
FINISHED TYPICAL SECTION
CTH 'D'
36" CURB & GUTTER
6" SLOPED CURB TYPE D
STA 87+00 - STA 88+50 LT

FINISHED TYPICAL SECTION
CTH 'D'
36" CURB & GUTTER
6" SLOPED CURB TYPE D
STA 86+00 - STA 87+50 RT

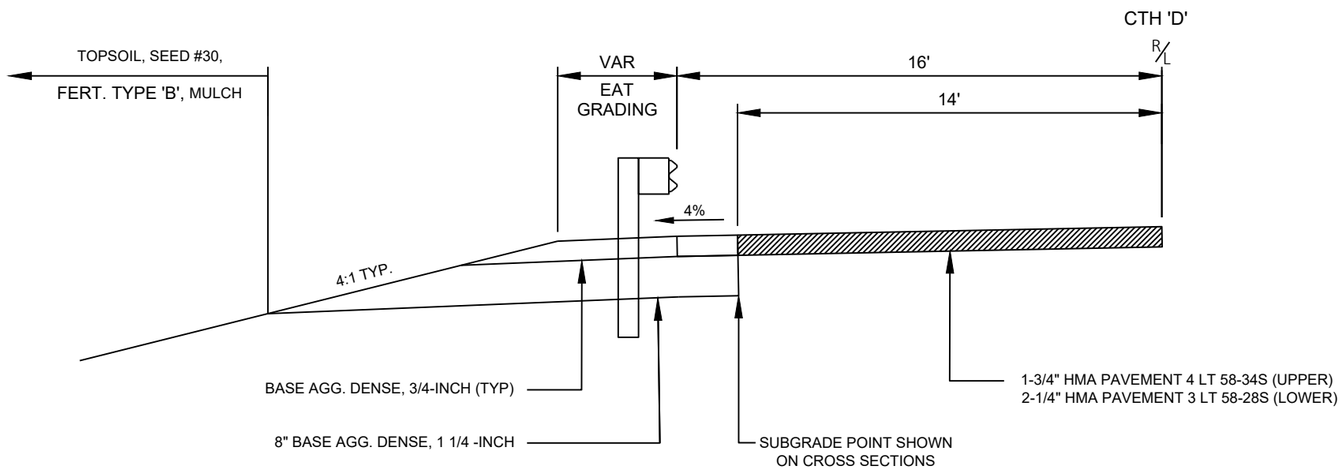
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TYPICAL SECTION	SHEET 11	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\020301_TS.DWG
LAYOUT NAME - TS_PROP_ 85+00 - 89+50

PLOT DATE : 1/14/2021 1:32 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:5 FT



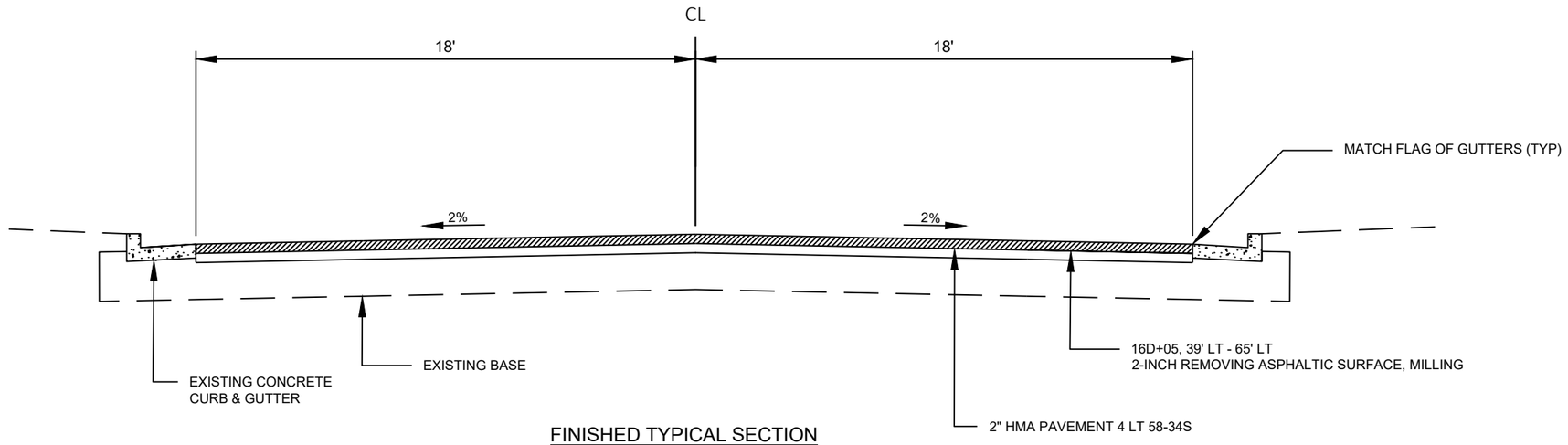
FINISHED TYPICAL SECTION
PROFILE CORRECTION
CTH 'D'
STA 89+50 - STA 93+00
FILL SECTION



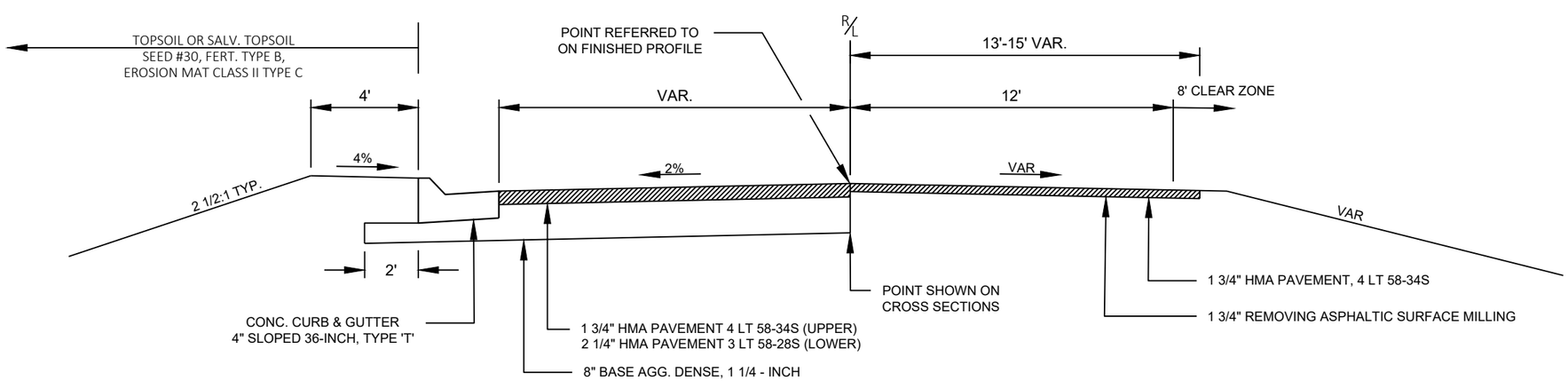
FINISHED TYPICAL SECTION
EAT GRADING
CTH 'D'
STA 106D+00 - STA 108D+00, LT
STA 115D+00 - STA 117D+00, LT

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TYPICAL SECTION	SHEET 12	E

2



FINISHED TYPICAL SECTION
BRICKYARD STREET



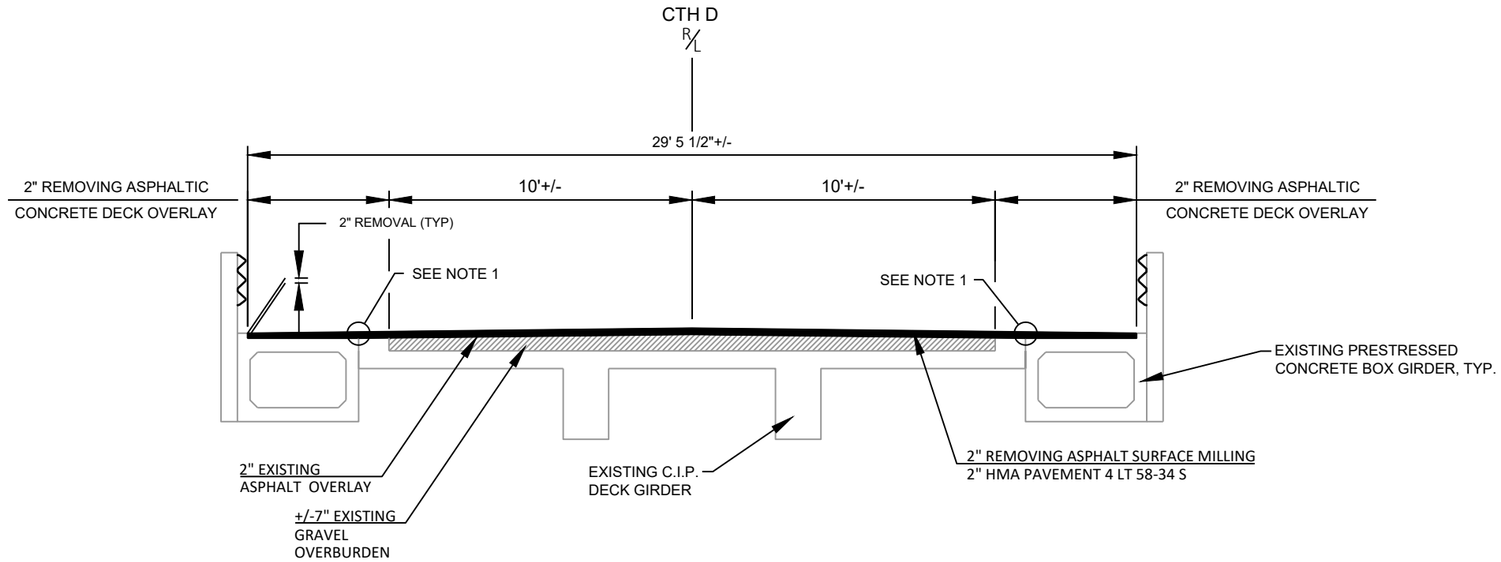
FINISHED TYPICAL SECTION
GREEN MEADOW RD
STA 2+25 - STA 3+31

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TYPICAL SECTION	SHEET 13	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\020301_TS.DWG
LAYOUT NAME - TS_PROP_SIDE ROADS

PLOT DATE : 1/14/2021 1:32 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:5 FT

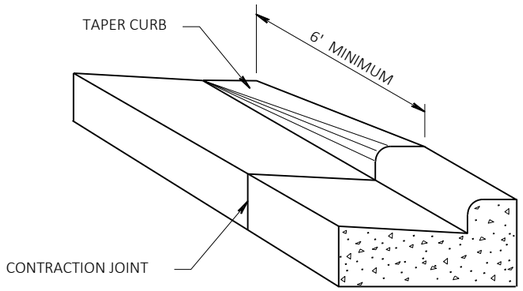
2



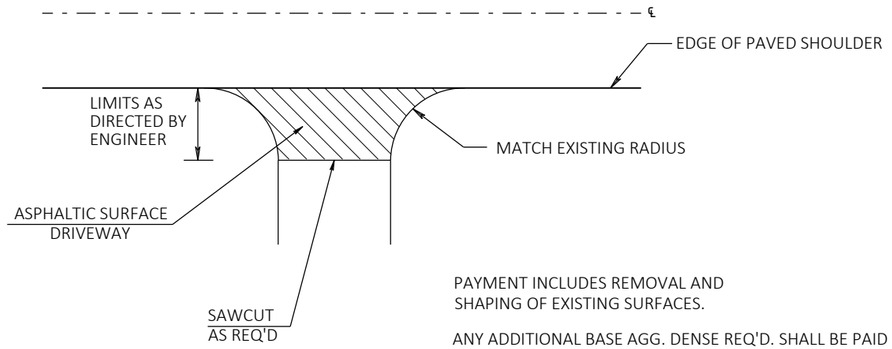
MILL AND OVERLAY DETAIL
STRUCTURE B-18-945

NOTE 1.

PREVIOUS STRUCTURE REHABILITATION RESULTED IN POSSIBLE EXPOSED REBAR REMAINING ALONG THE TOP SURFACE OF THE INTERIOR CONCRETE CURBS. REHABILITATION DETAILS ARE AVAILABLE FROM THE DOT REGIONAL OFFICE LOCAL PROGRAM PROJECT MANAGER.



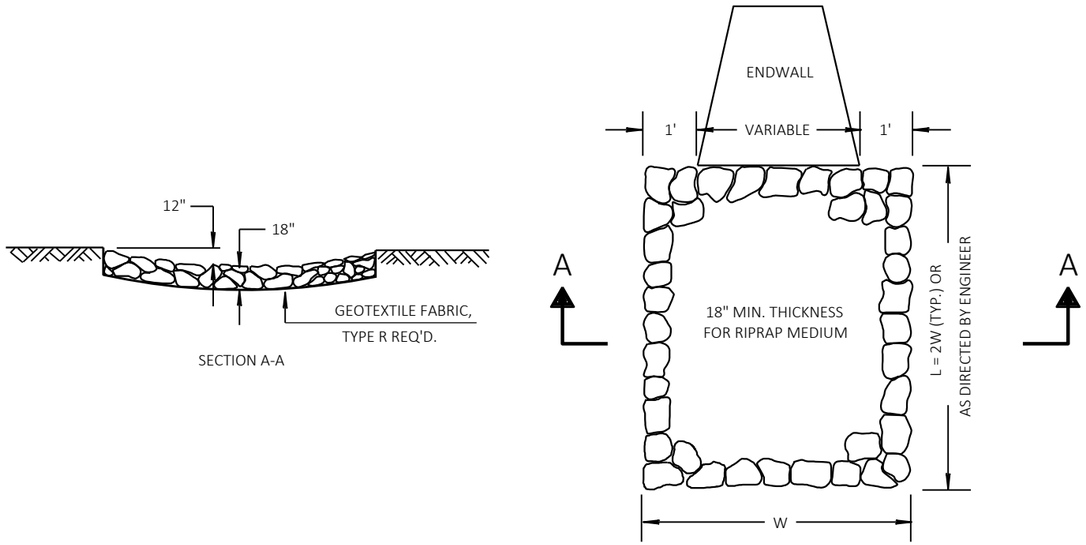
DETAIL OF CURB & GUTTER TERMINI



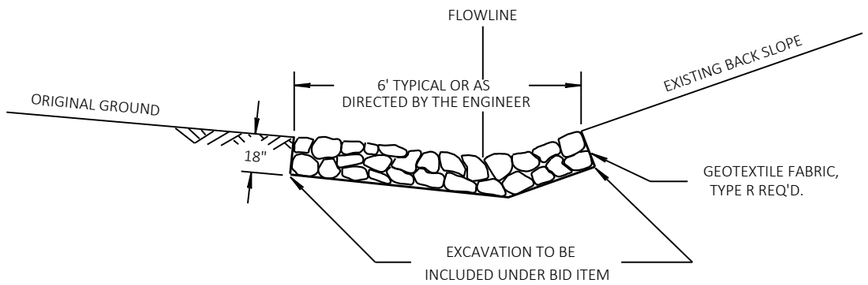
PAYMENT INCLUDES REMOVAL AND SHAPING OF EXISTING SURFACES.

ANY ADDITIONAL BASE AGG. DENSE REQ'D. SHALL BE PAID UNDER ITEM - "BASE AGGREGATE DENSE 1 1/4-INCH"

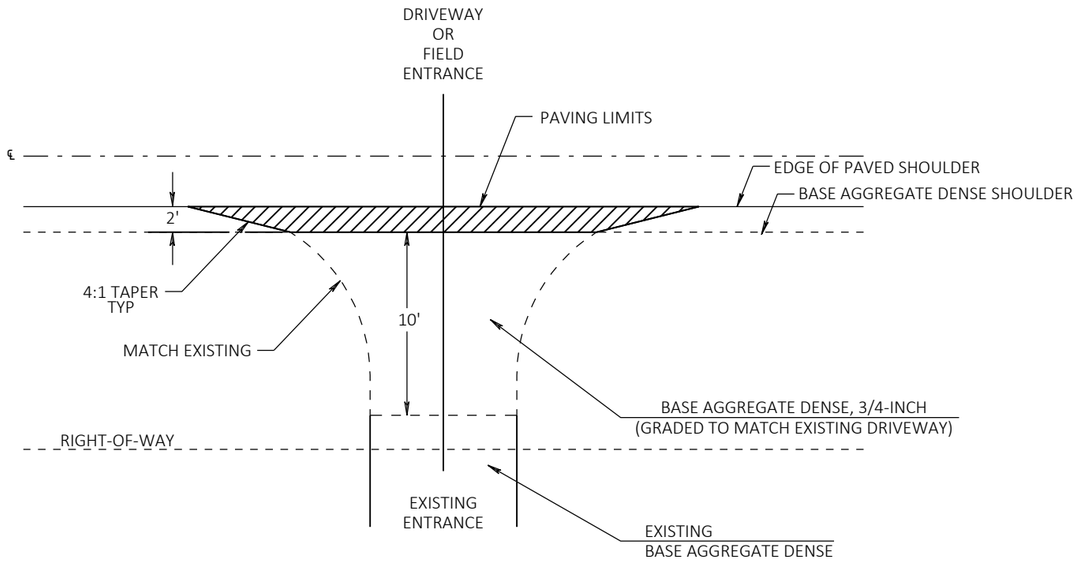
RURAL DRIVEWAY DETAIL - ASPHALT



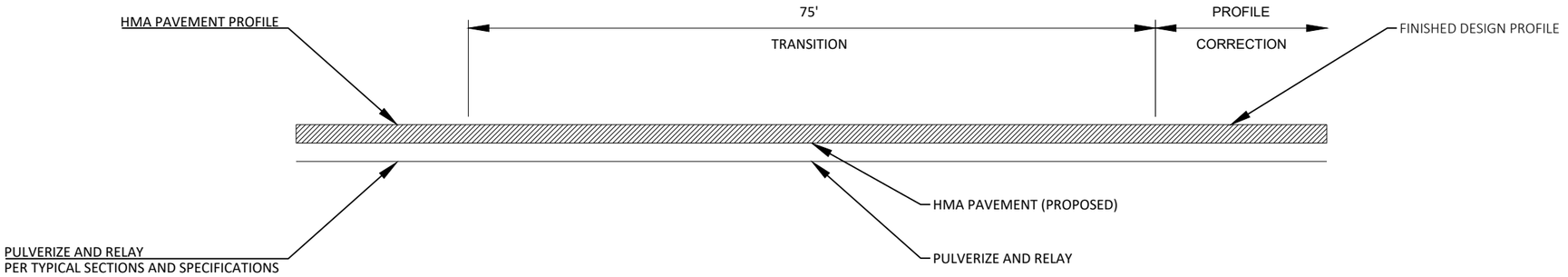
RIPRAP MEDIUM TREATMENT AT CULVERTS



DETAIL FOR LIGHT RIPRAP FLUME
STA 89+00 - 92+50, RT

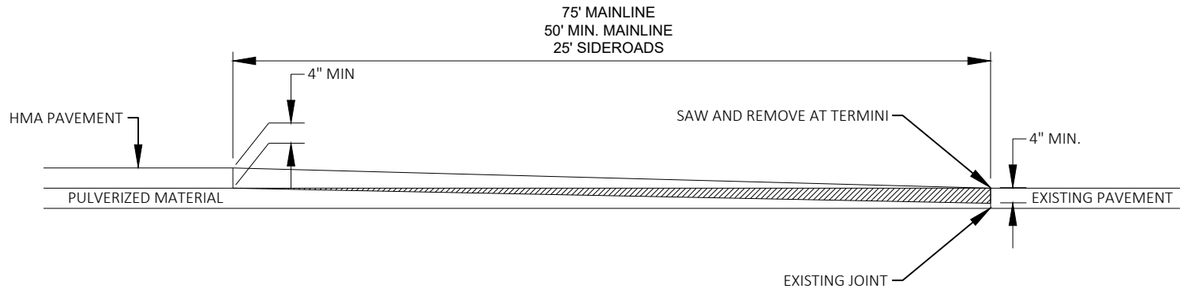


RURAL DRIVEWAY OR FIELD ENTRANCE - AGGREGATE



TRANSITION DETAIL

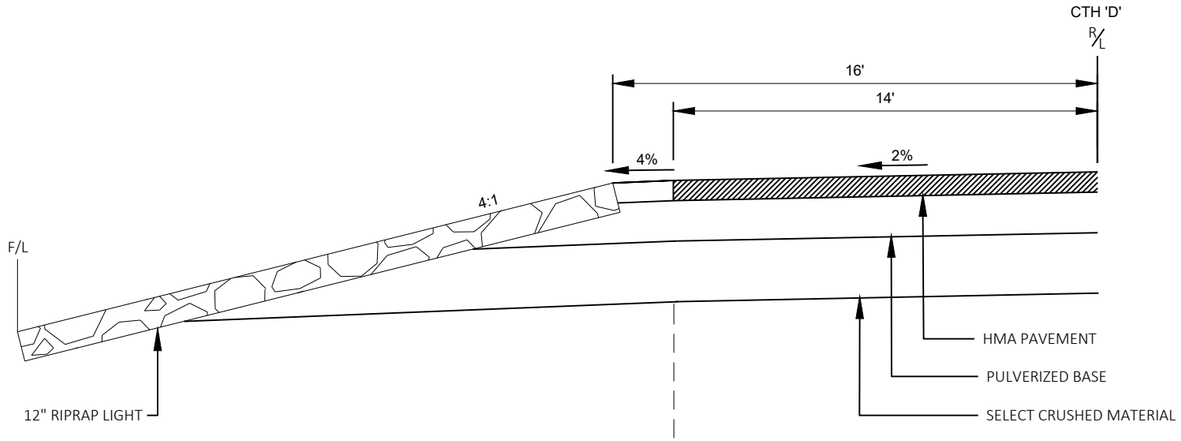
PROFILE CORRECTIONS
CTH 'D'



REMOVING ASPHALTIC SURFACE, BUTT JOINT

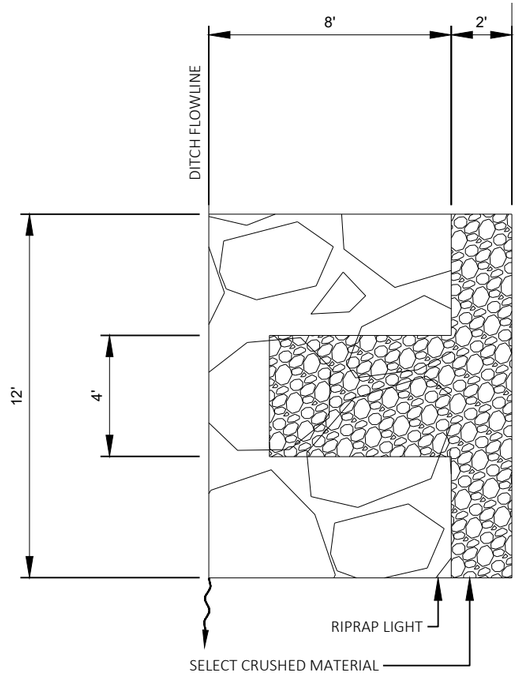
STA 13+34 - STA 14+00
STA 16+05, LT INTERSECTION
STA 81+72, LT INTERSECTION
STA 86+52, LT INTERSECTION
STA 131+73, LT INTERSECTION
STA 154+05 - STA 154+81
STA 154'N'+25 - 155'N'+00

2



RELIEF TRENCH DETAIL

CTH 'D'
STA 130D+25 - STA 131D+75



RELIEF TRENCH DETAIL

STA 130+46 LT
STA 130+71 RT

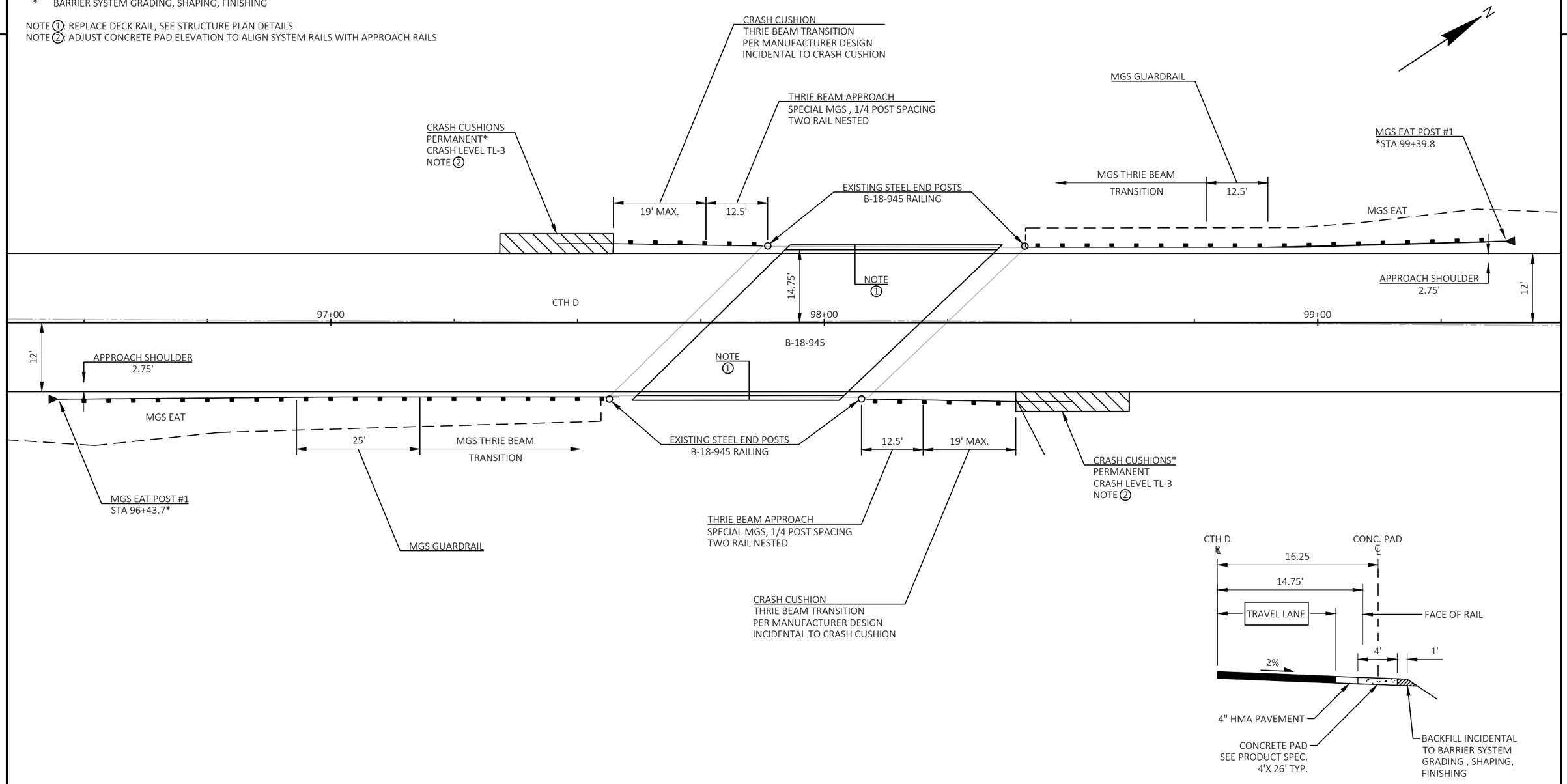
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CONSTRUCTION DETAILS	SHEET 17	E

SEE S.D.D.: MIDWEST GUARDRAIL SYSTEM, ENERGY ABSORBING TERMINAL

CONSTRUCTION NOTE:

* GRADE SLOPES BETWEEN SHOULDER AND HINGE POINT LINES AT 10:1 TO KEEP GRADING WITHIN R/W
* BARRIER SYSTEM GRADING, SHAPING, FINISHING

NOTE ①: REPLACE DECK RAIL, SEE STRUCTURE PLAN DETAILS
NOTE ②: ADJUST CONCRETE PAD ELEVATION TO ALIGN SYSTEM RAILS WITH APPROACH RAILS

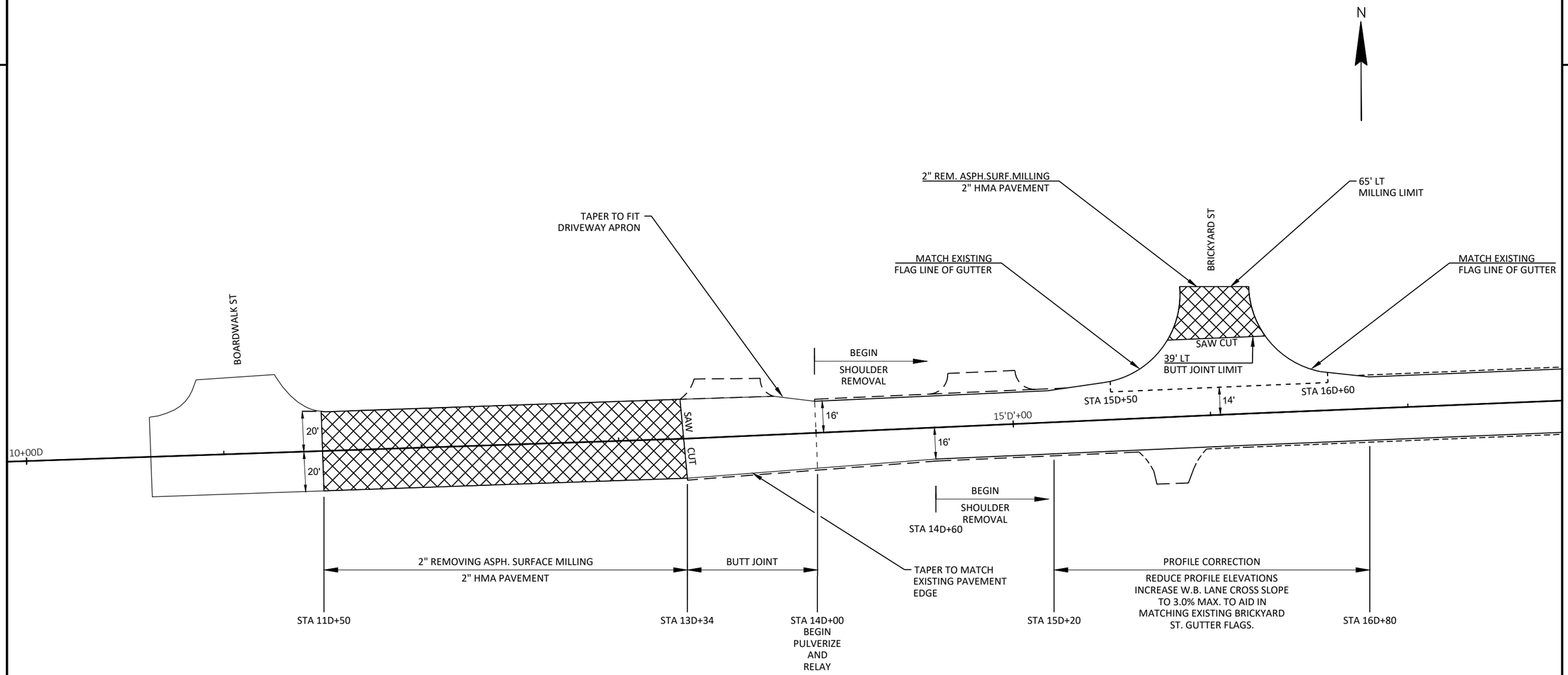


LOCATION DETAIL

CRASH CUSHION CONCRETE PAD
NORTHBOUND SHOWN
SOUTHBOUND SIMILAR

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN DETAILS	SHEET 18	E

2



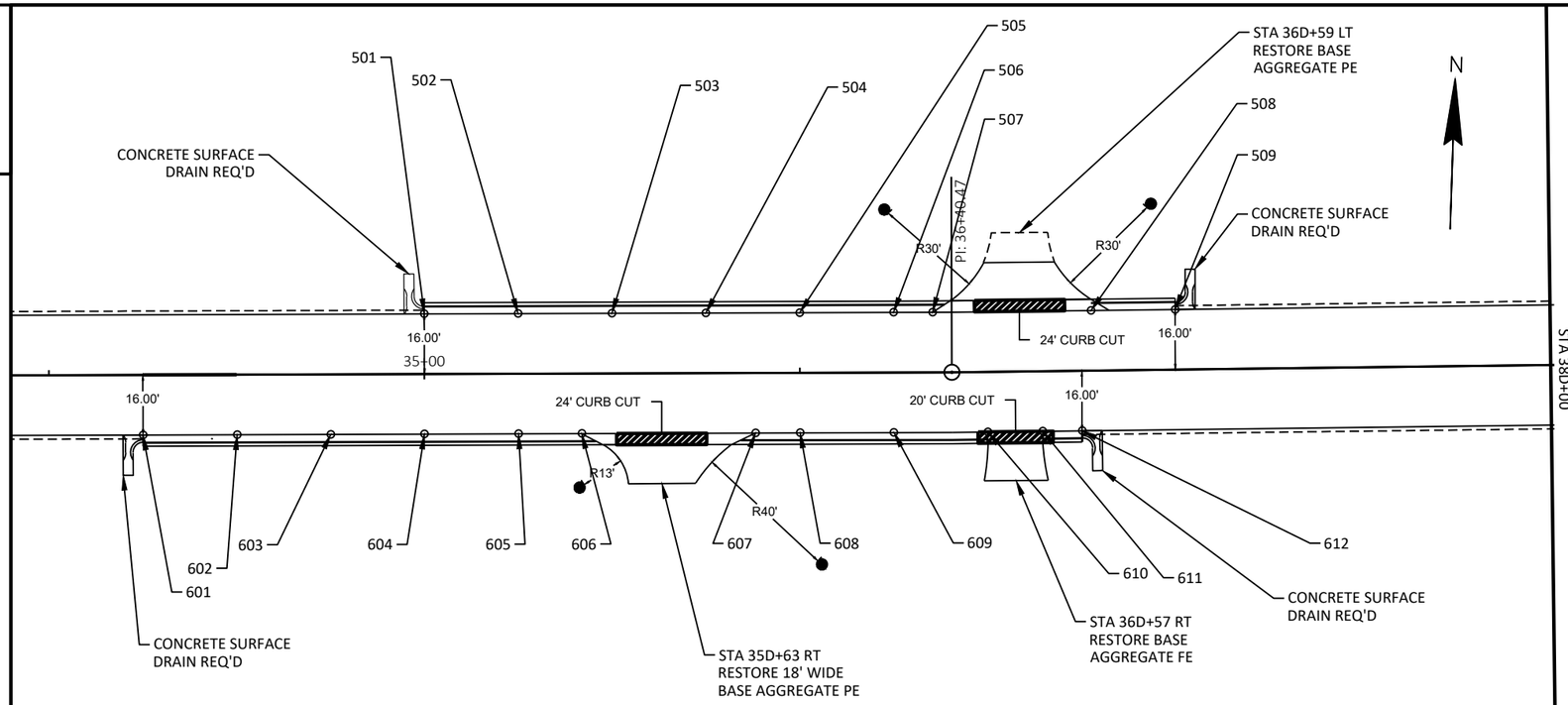
PAVING DETAILS

STA 11+50 - STA 16+80

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PAVING DETAILS	SHEET 19	E

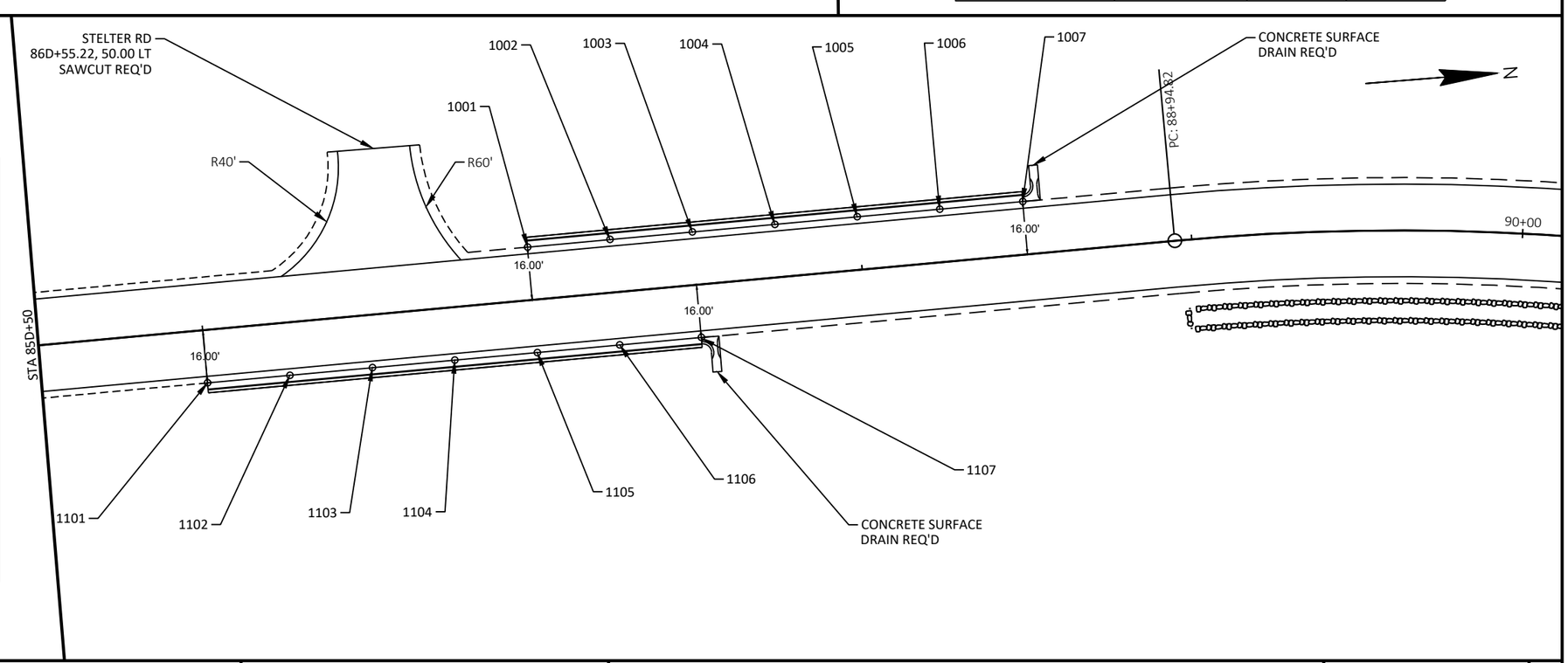
FILE NAME : N:\PDS\C3D\78230772\SHEETSOTHER\021202-PD.DWG
LAYOUT NAME - Pavement Deatil

PLOT DATE : 11/10/2020 11:51 AM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:50 FT



CURB & GUTTER			
POINT NAME	STATION	OFFSET	ELEVATION
501	35D+00	16 LT	950.18
502	35D+25	16 LT	950.44
503	35D+50	16 LT	950.60
504	35D+75	16 LT	950.68
505	36D+00	16 LT	950.68
506	36D+25	16 LT	950.58
507	36D+35	16 LT	950.52
508	36D+78	16 LT	950.05
509	37D+00	16 LT	949.77
601	34D+25	16 RT	948.89
602	34D+50	16 RT	949.41
603	34D+75	16 RT	949.84
604	35D+00	16 RT	950.19
605	35D+25	16 RT	950.44
606	35D+42	16 RT	950.56
607	35D+88	16 RT	950.69
608	36D+00	16 RT	950.68
609	36D+25	16 RT	950.58
610	36D+50	16 RT	950.48
611	36D+64	16 RT	950.22
612	36D+75	16 RT	950.08

2

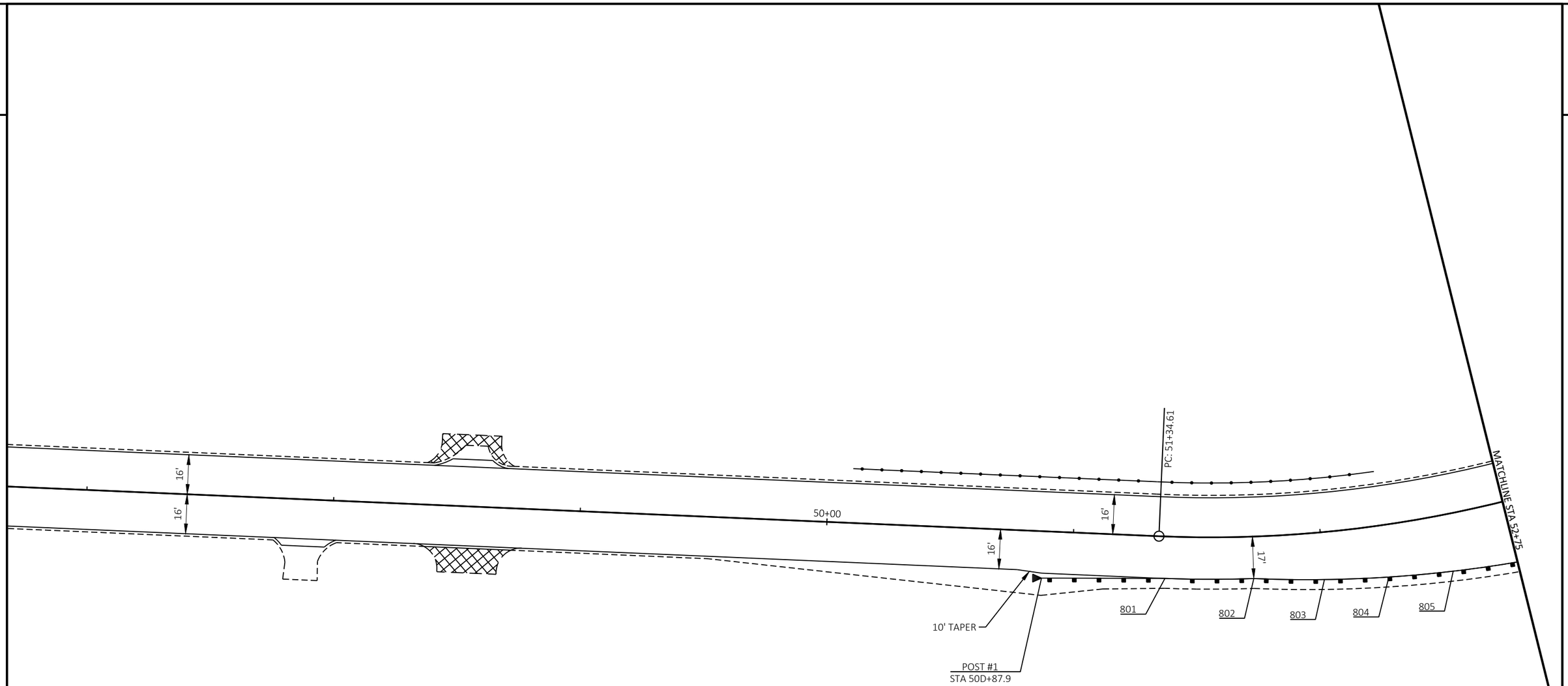


CURB & GUTTER			
POINT NAME	STATION	OFFSET	ELEVATION
1001	87D+00	16 LT	922.21
1002	87D+25	16 LT	921.44
1003	87D+50	16 LT	920.65
1004	87D+75	16 LT	919.92
1005	88D+00	16 LT	919.26
1006	88D+25	16 LT	918.57
1007	88D+50	16 LT	917.85
1101	86D+00	16 RT	925.00
1102	86D+25	16 RT	924.33
1103	86D+50	16 RT	922.66
1104	86D+75	16 RT	922.94
1105	87D+00	16 RT	922.21
1006	87D+25	16 RT	921.44
1007	87D+50	16 RT	920.65

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PAVING DETAILS	SHEET 20	E

2

2



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	GREEN MEADOW ROAD INTERSECTION DETAIL	SHEET 21	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\021102_ID_GREENMEADOW.DWG
LAYOUT NAME - GreenMeadow-1

PLOT DATE : 11/9/2020 10:49 AM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

CURB & GUTTER (FLAG)			
POINT NAME	STATION	OFFSET	ELEVATION
901	54D+84.00	26.0 RT	928.04
902	3+10.00'GM'	22.8 LT	927.45
903	2+72.23'GM'	15.3 LT	926.81
904	2+98.81'GM'	15.0 RT	927.43
905	3+22.25'GM'	22.6 RT	927.85
906	55D+71.00	22.0 RT	928.27

BEAM GUARD (FACE)		
POINT NAME	STATION	OFFSET
801	51D+38	17.0 RT
802	51D+73	17.0 RT
803	52D+00	19.2 RT
804	52D+25	21.2 RT
805	52D+50	23.2 RT
806	52D+85	26.0 RT
807	54D+22	26.0 RT
808	54D+66	26.0 RT
809	54D+82	28.8 RT
810		
811	2+73'GM'	18.3 LT
812	2+41'GM'	19.9 LT
813	2+88'GM'	18.0 RT
814	2+99'GM'	18.0 RT
815		
816	55D+72	24.9 RT
817	56D+40	24.0 RT
818	57D+00	24.0 RT
819	57D+50	20.6 RT
820	58D+00	18.3 RT
821	58D+75	17.0 RT

STATION & OFFSET TABLE				
POINT	STATION	OFFSET	Y COORDS	X COORDS
701	54D+66.00'	83.00' RT	261455.963	404965.101
702	55D+79.29'	61.00' RT	261566.966	404935.6060
RADIUS IS TO FLAG OF GUTTER				

SHORT RADIUS BEAM GUARD (MGS)
RADIUS = 58' (FACE OF RAIL)
CRT POST QTY = 12
3

SHORT RADIUS TERMINAL (MGS)
4

SPLICE POINTS
STA 54D+72.0, RT
STA 2+80.0'GM', LT
S

CONCRETE CURB & GUTTER
4-INCH SLOPED 36-INCH
TYPE T (TYP)
1 2

SPLICE 5
CRT POST
SRT POST
CULVERT

SPLICE POINT IS OVER CULVERT
5

FIELD ADJUST CONCRETE SURFACE DRAIN LOCATION TO FIT BETWEEN POSTS

CONNECT MGS GUARDRAIL TO EXISTING RAIL
STA 2+93'GM', RT
REPLACE GUARDRAIL POST AND BLOCK
STA 2+87'GM', RT
6

MGS GUARDRAIL, R = 38' (FACE OF RAIL)
7

LEGEND
XXXXX SAWCUT

MATCHLINE STA 52+75
MATCHLINE STA 58+00
REDUCE S.E. RT. TURN LANE
STA 55D+00
STA 55D+50
MILL AND OVERLAY
CONCRETE SURFACE DRAIN REQ'D
2+25'GM', 15.17 LT
2+25'GM', 13.00 RT
2+00'GM'
1+00'GM'
3+00'GM'
R60'
R40'
26'
16'
14'
12'
6%
4%
3%
26.00'
22.8'
22.6'
22.00'
15.0'
15.3'
24'

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	GREEN MEADOW ROAD INTERSECTION DETAIL	SHEET 22	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\021102_ID_GREENMEADOW.DWG
LAYOUT NAME - GreenMeadow-2
PLOT DATE : 11/9/2020 10:49 AM
PLOT BY : CODY FELDMANN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

2

N

STA 60D+50

STA 61D+000

PI: 62+02.76

PT: 58+75.33

MATCHLINE STA 58+00

16'

17'

60+00

16'

16'

14'

14'

16'

16'

14'

14'

820

821

10' TAPER

POST #1
STA 59D+32.7, RT

STA 61D+00

STA 60D+50

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	GREEN MEADOW ROAD INTERSECTION DETAIL	SHEET 23	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\021102_ID_GREENMEADOW.DWG
LAYOUT NAME - GreenMeadow-3

PLOT DATE : 11/9/2020 10:49 AM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

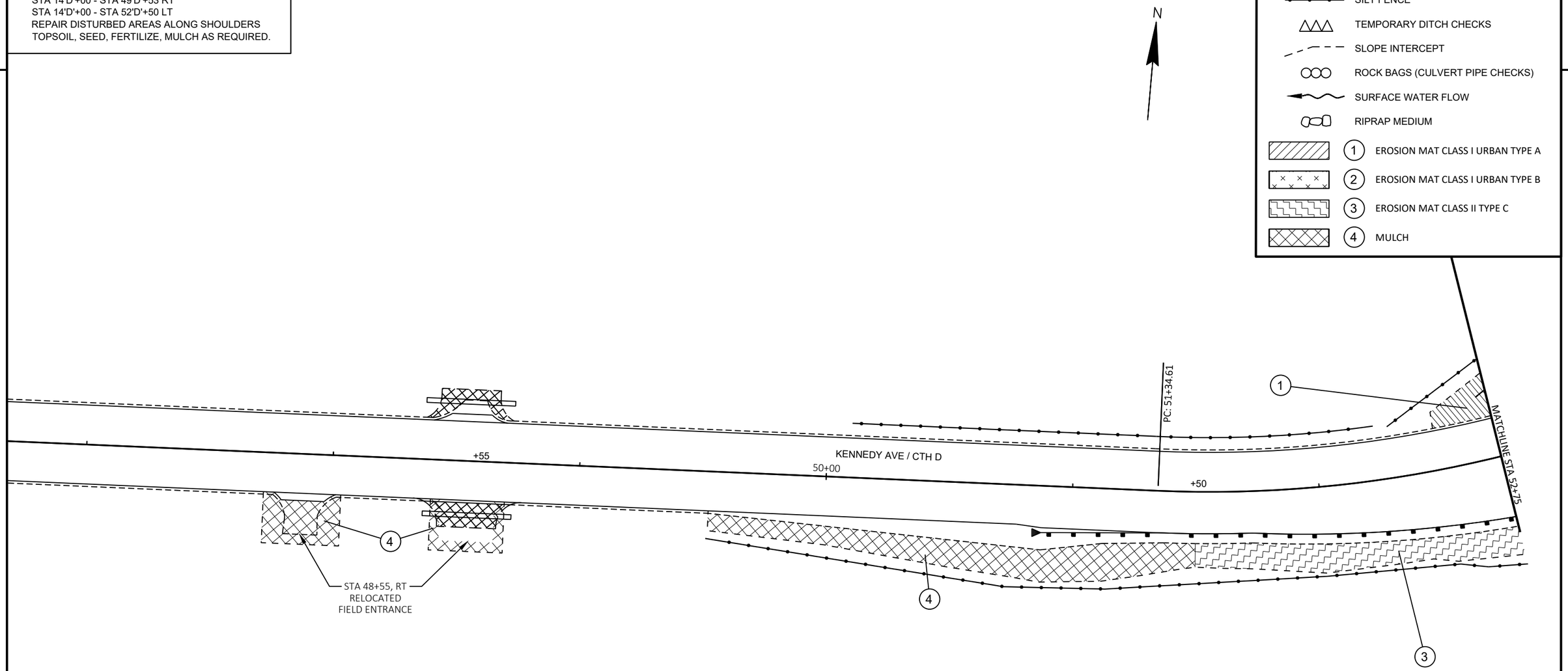
2

NOTES

STA 14'D'+00 - STA 49'D'+53 RT
STA 14'D'+00 - STA 52'D'+50 LT
REPAIR DISTURBED AREAS ALONG SHOULDERS
TOPSOIL, SEED, FERTILIZE, MULCH AS REQUIRED.

LEGEND

- SILT FENCE
- TEMPORARY DITCH CHECKS
- SLOPE INTERCEPT
- ROCK BAGS (CULVERT PIPE CHECKS)
- SURFACE WATER FLOW
- RIPRAP MEDIUM
- 1 EROSION MAT CLASS I URBAN TYPE A
- 2 EROSION MAT CLASS I URBAN TYPE B
- 3 EROSION MAT CLASS II TYPE C
- 4 MULCH

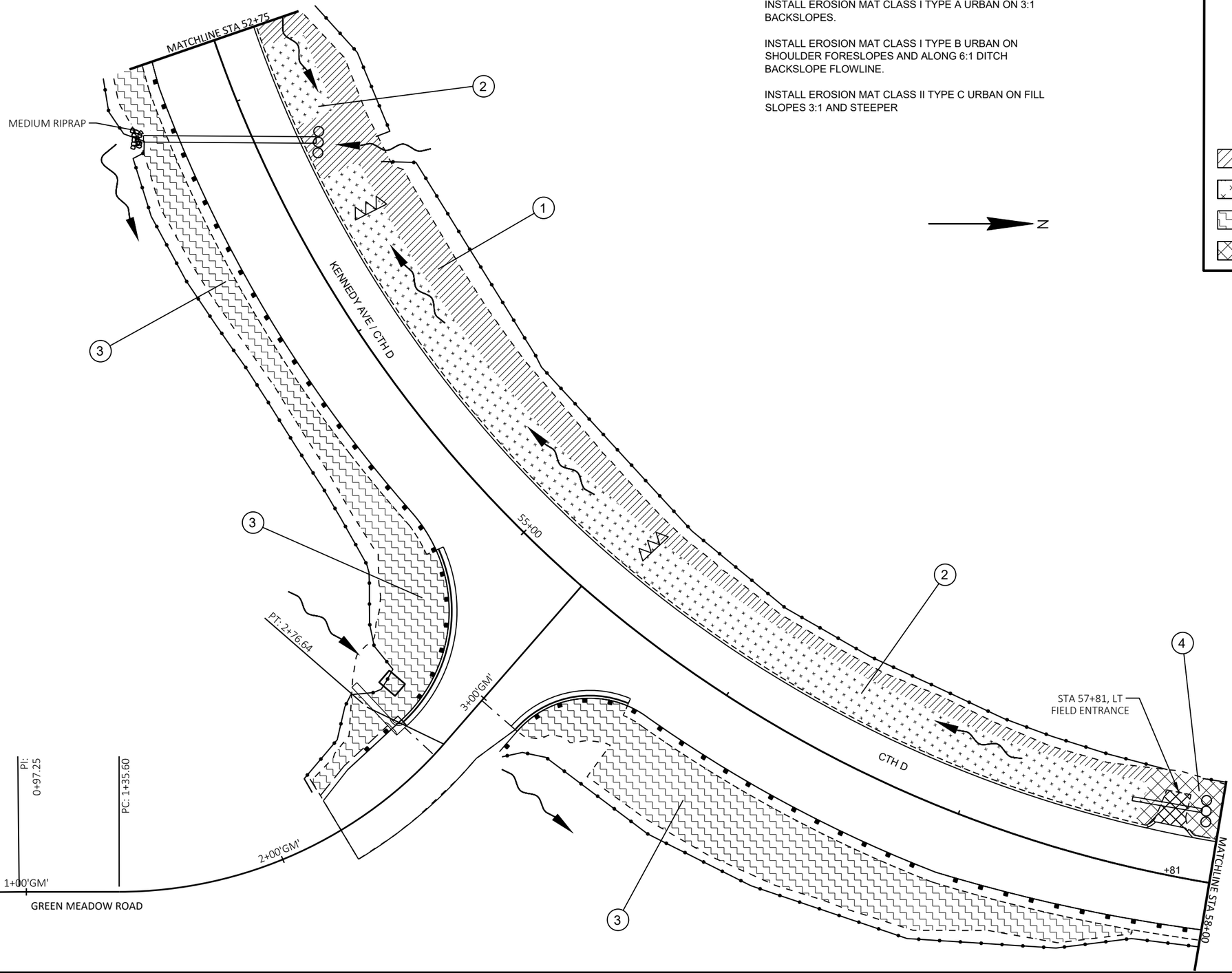


2

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	EROSION CONTROL	SHEET 24	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSOTHER\022001-EC.DWG
LAYOUT NAME - GreenMeadow-1

PLOT DATE : 11/10/2020 12:27 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:40 FT



INSTALL EROSION MAT CLASS I TYPE A URBAN ON 3:1 BACKSLOPES.

INSTALL EROSION MAT CLASS I TYPE B URBAN ON SHOULDER FORESLOPES AND ALONG 6:1 DITCH BACKSLOPE FLOWLINE.

INSTALL EROSION MAT CLASS II TYPE C URBAN ON FILL SLOPES 3:1 AND STEEPER

N

LEGEND

- SILT FENCE
- TEMPORARY DITCH CHECKS
- SLOPE INTERCEPT
- ROCK BAGS (CULVERT PIPE CHECKS)
- SURFACE WATER FLOW
- RIPRAP MEDIUM
- 1 EROSION MAT CLASS I URBAN TYPE A
- 2 EROSION MAT CLASS I URBAN TYPE B
- 3 EROSION MAT CLASS II TYPE C
- 4 MULCH

2

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	EROSION CONTROL	SHEET 25	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSOTHER\022001-EC.DWG
LAYOUT NAME - Green Meadow-2
PLOT DATE : 11/10/2020 12:27 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

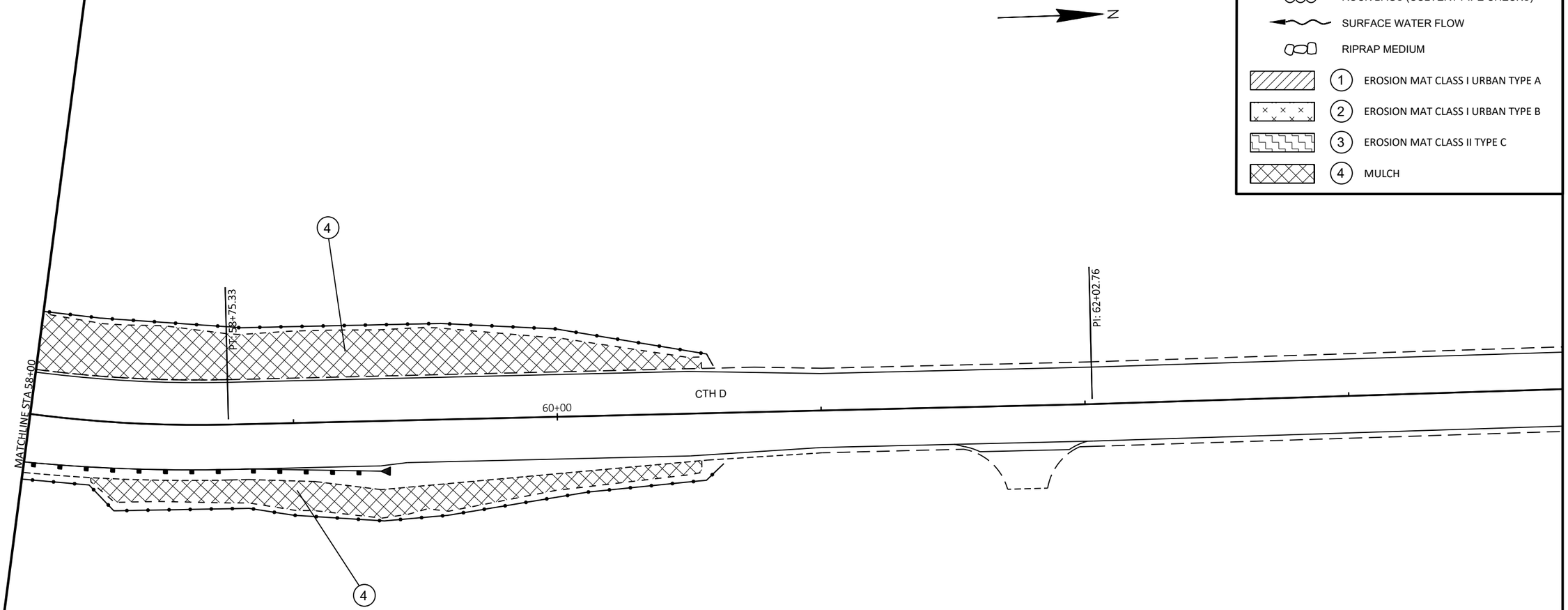
2

NOTES

STA 60'D'+50 - STA 148'D'+50 RT
STA 60'D'+50 - STA 153'D'+25 LT
REPAIR DISTURBED AREAS ALONG SHOULDERS
TOPSOIL, SEED, FERTILIZE, MULCH AS REQUIRED.

LEGEND

- SILT FENCE
- TEMPORARY DITCH CHECKS
- SLOPE INTERCEPT
- ROCK BAGS (CULVERT PIPE CHECKS)
- SURFACE WATER FLOW
- RIPRAP MEDIUM
- 1 EROSION MAT CLASS I URBAN TYPE A
- 2 EROSION MAT CLASS I URBAN TYPE B
- 3 EROSION MAT CLASS II TYPE C
- 4 MULCH



2

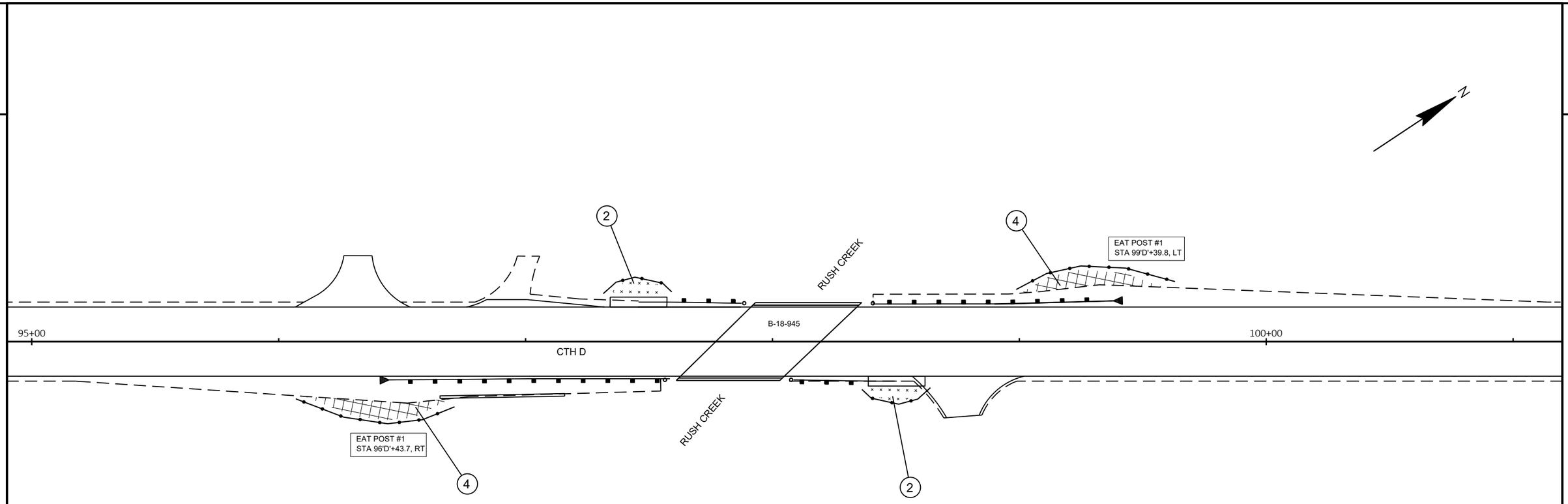
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	EROSION CONTROL	SHEET 26	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSOTHER\022001-EC.DWG
LAYOUT NAME - GreenMeadow-3

PLOT DATE : 11/10/2020 12:27 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



BARRIER SYSTEMS GRADING, SHAPING AND FINISHING

EAT POST #1 STA	TOPSOIL* (SY)	FERT. TYPE B* (CWT)	SEED* (LB)	MULCH* (SY)
96'D'+43.7, RT	75	0.05	2.0	75
99'D'+38.9, LT	75	0.05	2.0	75
CRASH CUSHIONS STA				
97'D'+35.0, LT	15	0.01	0.4	-
98'D'+40.0, RT	15	0.01	0.4	-

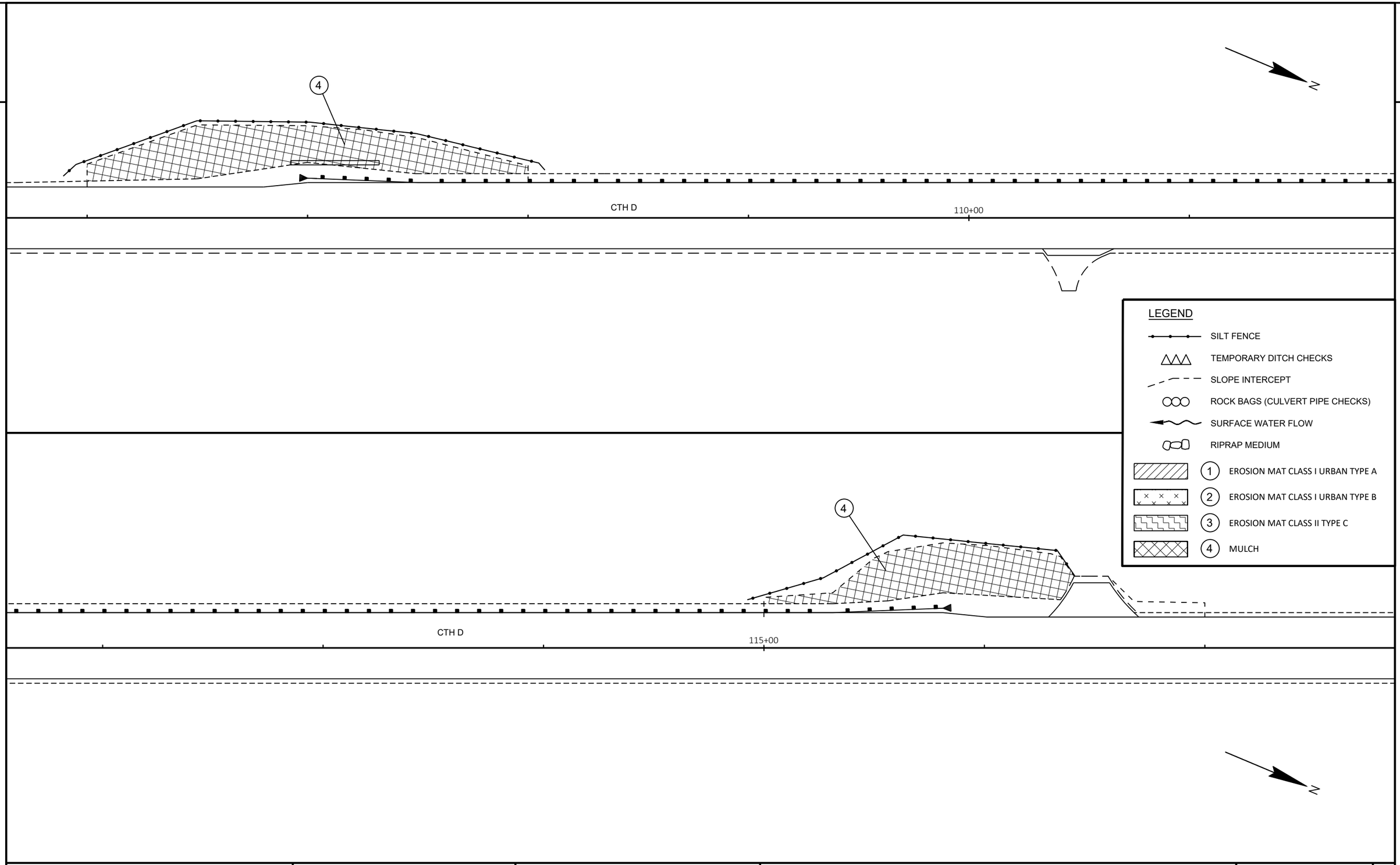
* ITEMS AND QUANTITIES LISTED ARE FOR INFORMATION ONLY -

LEGEND

- SILT FENCE
- TEMPORARY DITCH CHECKS
- SLOPE INTERCEPT
- ROCK BAGS (CULVERT PIPE CHECKS)
- SURFACE WATER FLOW
- RIPRAP MEDIUM
- 1 EROSION MAT CLASS I URBAN TYPE A
- 2 EROSION MAT CLASS I URBAN TYPE B
- 3 EROSION MAT CLASS II TYPE C
- 4 MULCH

2

2

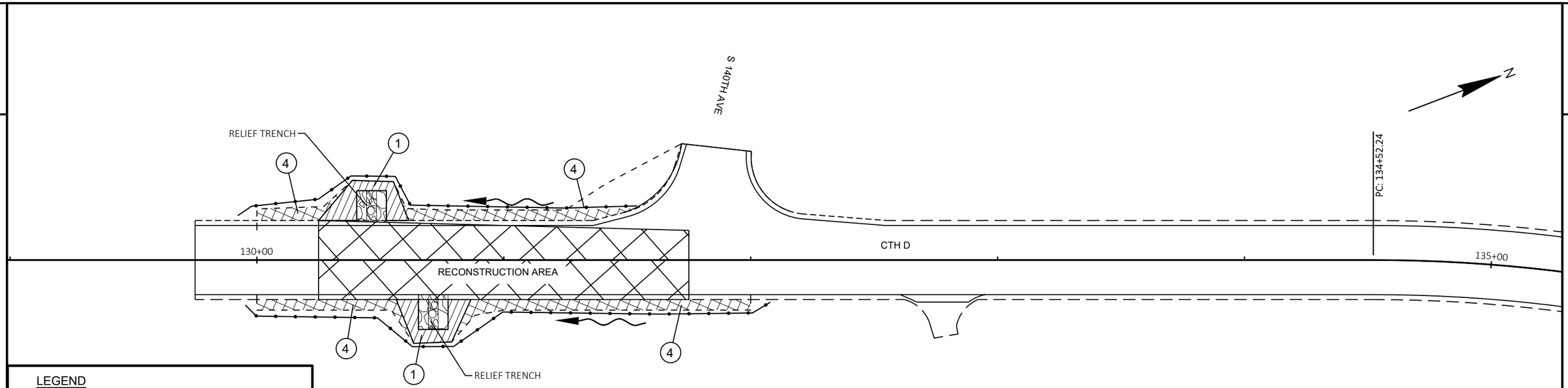


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	EROSION CONTROL	SHEET 28	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSOTHER\022001-EC.DWG
LAYOUT NAME - 107+00 - 116+00

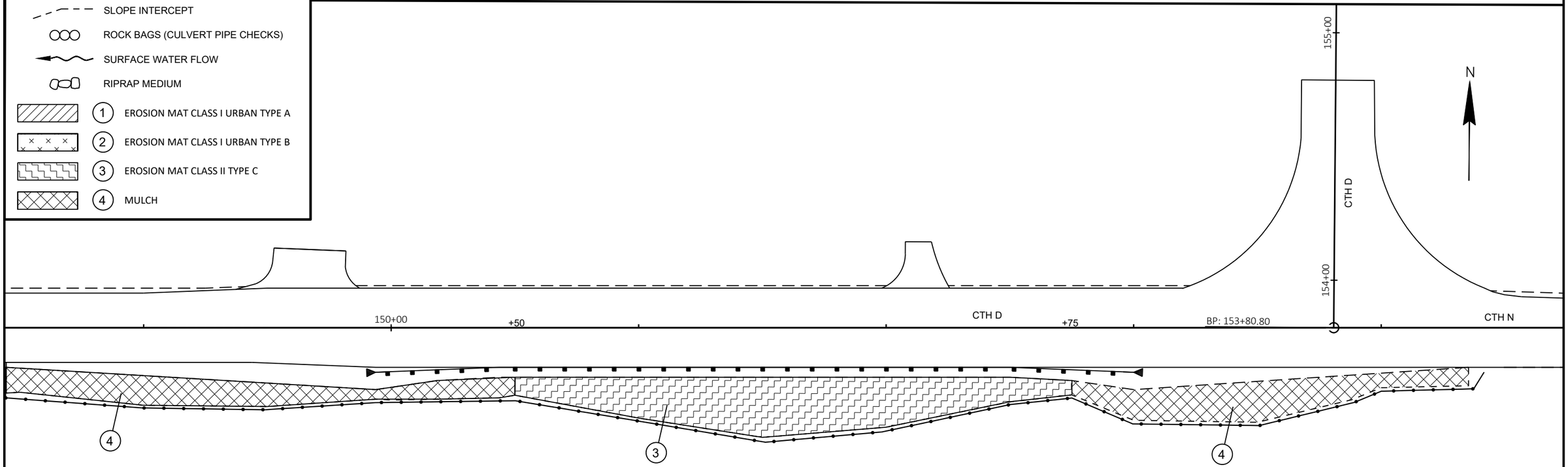
PLOT DATE : 11/10/2020 12:27 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- SILT FENCE
- TEMPORARY DITCH CHECKS
- SLOPE INTERCEPT
- ROCK BAGS (CULVERT PIPE CHECKS)
- SURFACE WATER FLOW
- RIPRAP MEDIUM
- (1) EROSION MAT CLASS I URBAN TYPE A
- (2) EROSION MAT CLASS I URBAN TYPE B
- (3) EROSION MAT CLASS II TYPE C
- (4) MULCH



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	EROSION CONTROL	SHEET 29	E

2

N

5+00

CTH D / KENNEDY AVE

DO NOT STOP ON TRACKS
R8-8
24"X30"
9

DO NOT STOP ON TRACKS
R8-8
24"X30"
10

CHICAGO AND NORTHWESTERN RR

CHICAGO AND NORTHWESTERN RR

USH 12

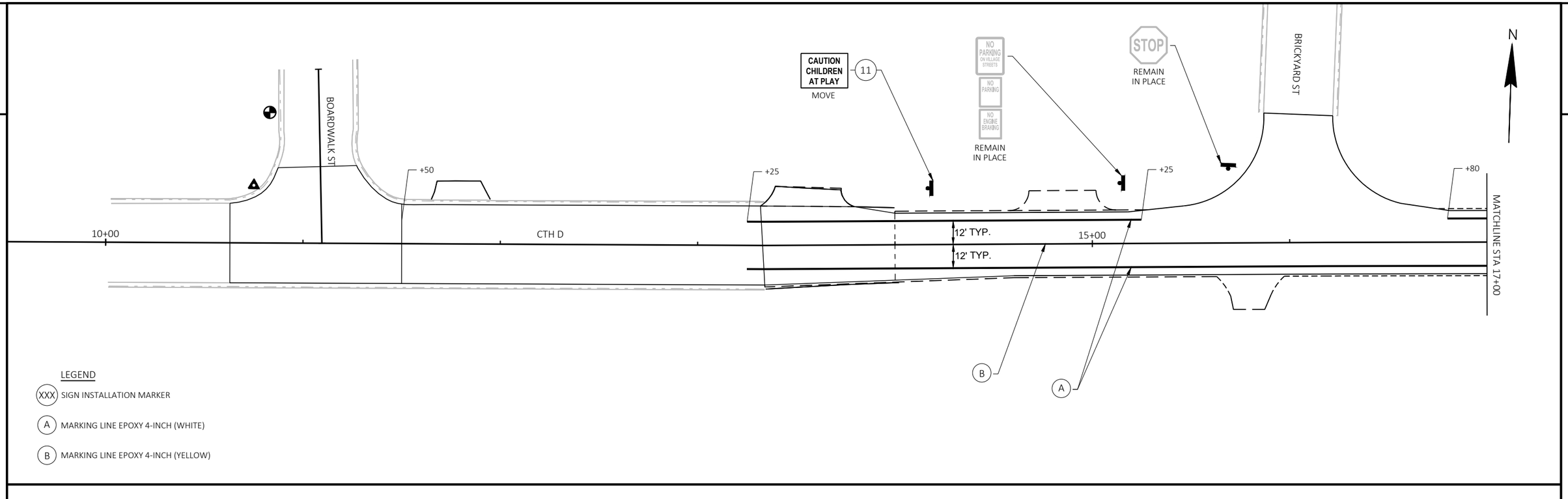
LEGEND

XXX SIGN INSTALLATION MARKER

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PERMANENT SIGNING AND MARKING	SHEET 30	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\024501_SM.DWG
LAYOUT NAME - PS&M_ - (1A)

PLOT DATE : 11/9/2020 2:32 PM PLOT BY : CODY FELDMANN PLOT NAME :

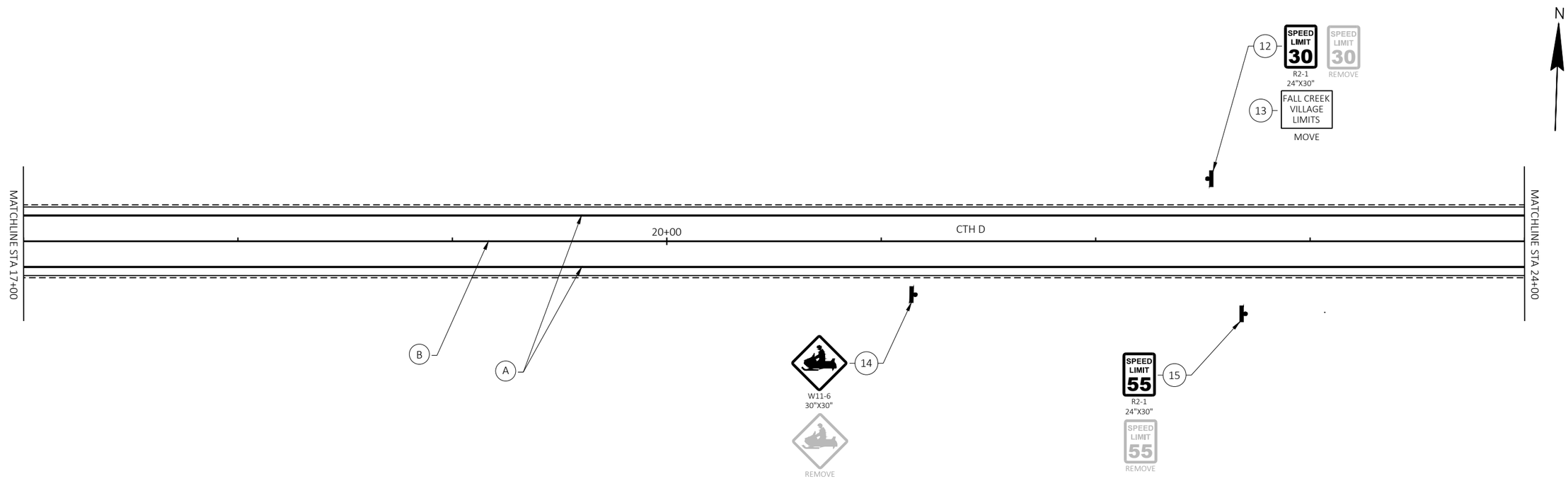


LEGEND

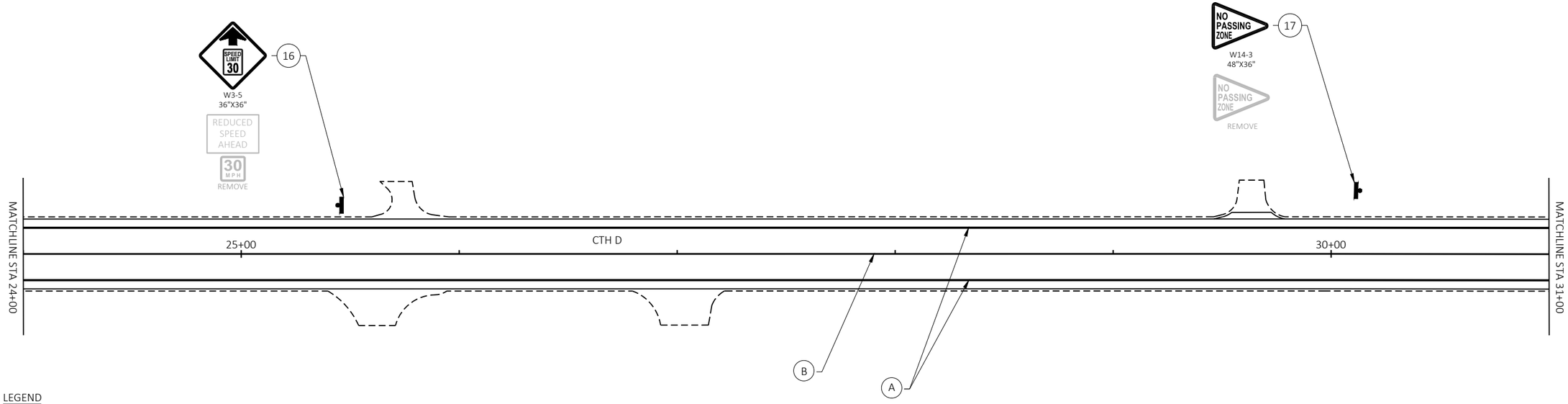
(XXX) SIGN INSTALLATION MARKER

(A) MARKING LINE EPOXY 4-INCH (WHITE)

(B) MARKING LINE EPOXY 4-INCH (YELLOW)



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PERMANENT SIGNING AND MARKING	SHEET 31	E

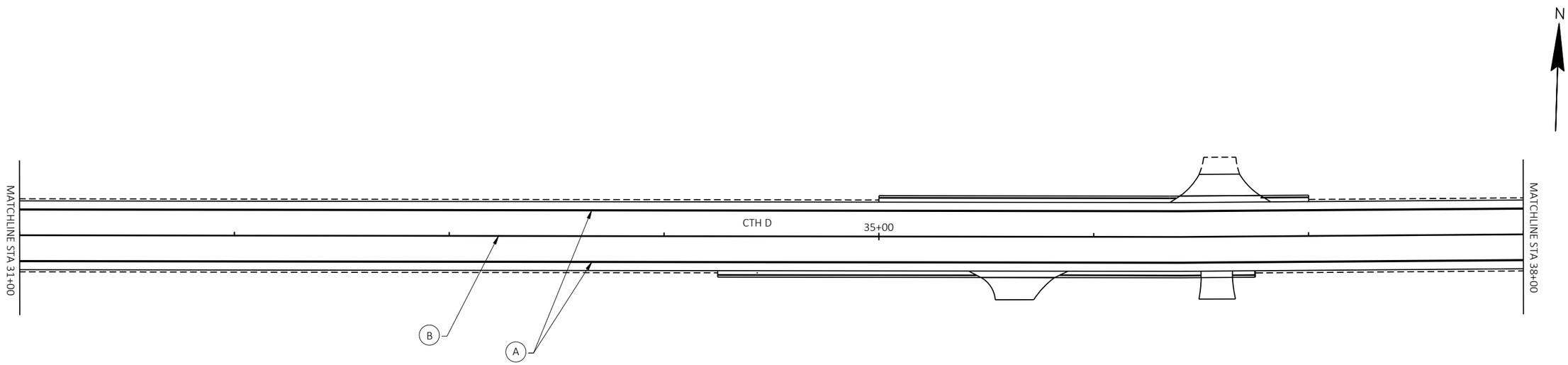


LEGEND

(XXX) SIGN INSTALLATION MARKER

(A) MARKING LINE EPOXY 4-INCH (WHITE)

(B) MARKING LINE EPOXY 4-INCH (YELLOW)

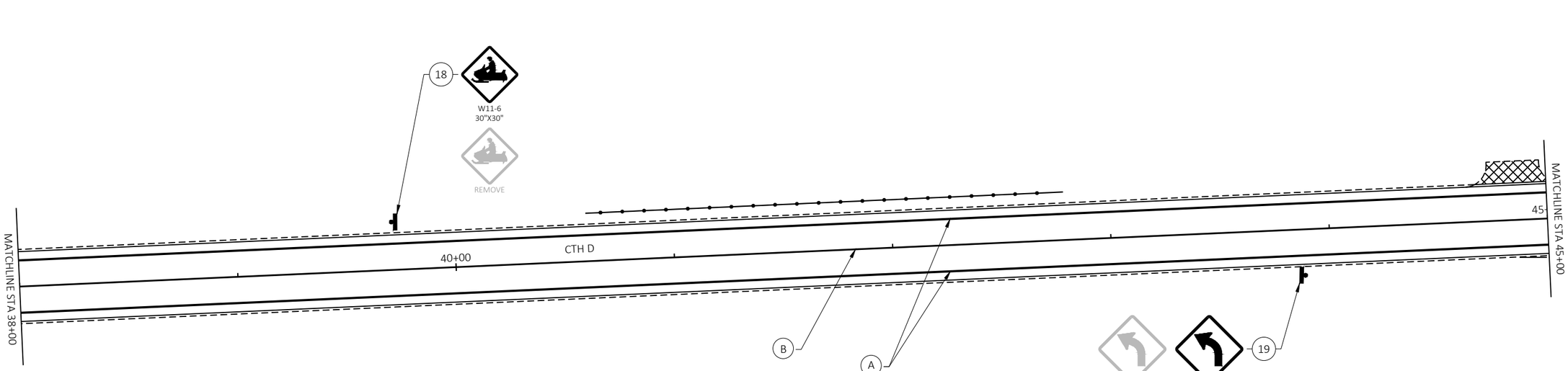


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PERMANENT SIGNING AND MARKING	SHEET 32	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\024501_SM.DWG
LAYOUT NAME - PS&M_ - (2)

PLOT DATE : 11/9/2020 2:32 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

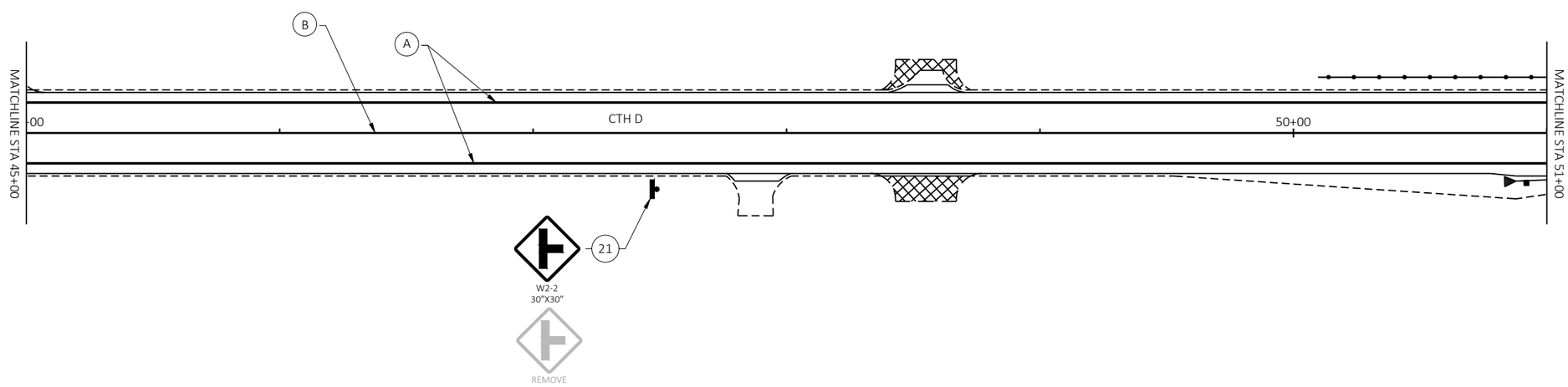


LEGEND

(XXX) SIGN INSTALLATION MARKER

(A) MARKING LINE EPOXY 4-INCH (WHITE)

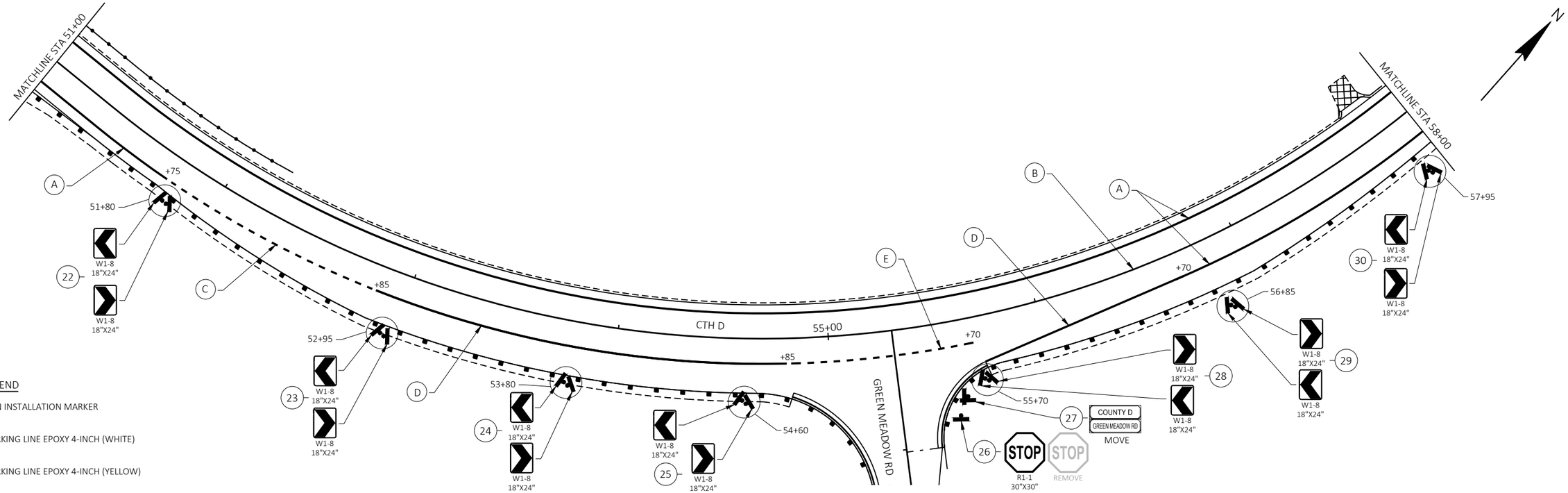
(B) MARKING LINE EPOXY 4-INCH (YELLOW)



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PERMANENT SIGNING AND MARKING	SHEET 33	E

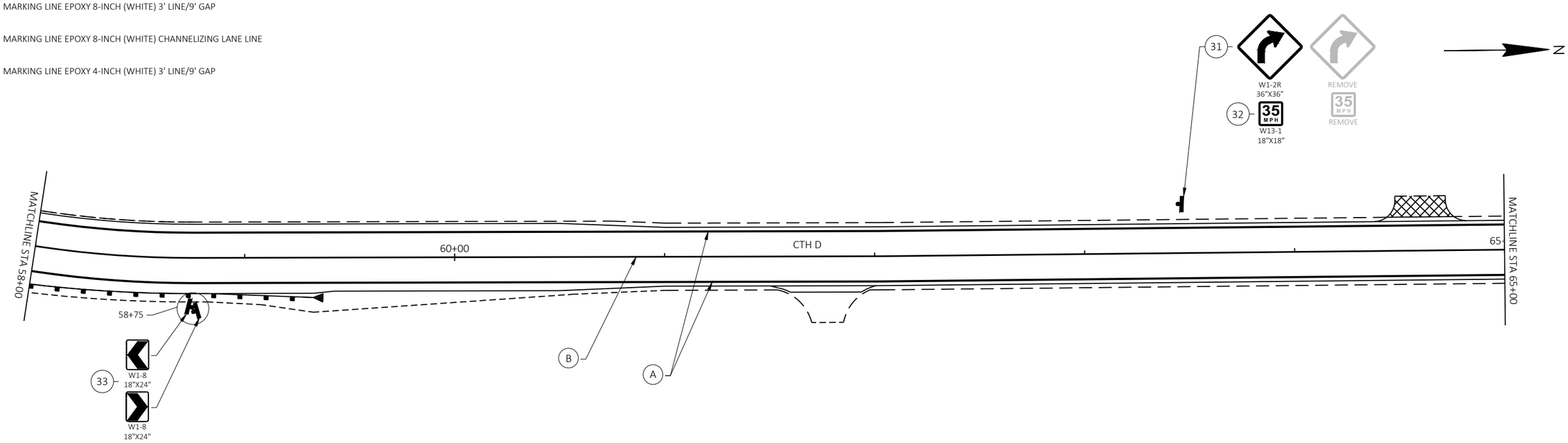
FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\024501_SM.DWG
LAYOUT NAME - PS&M_ - (3)

PLOT DATE : 11/9/2020 2:32 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:50 FT

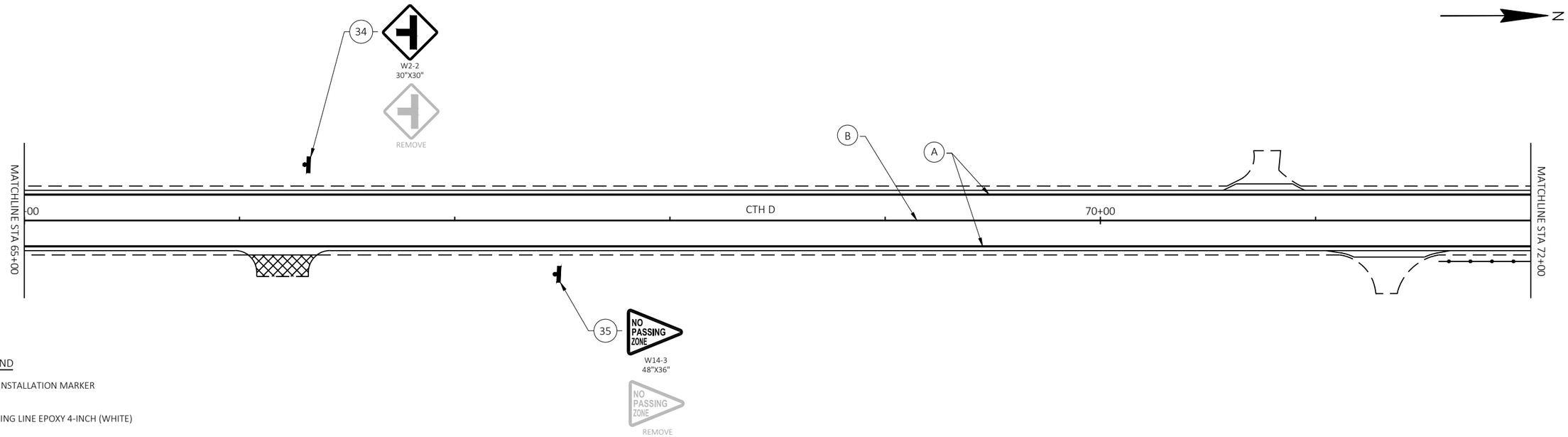


LEGEND

- (XXX) SIGN INSTALLATION MARKER
- (A) MARKING LINE EPOXY 4-INCH (WHITE)
- (B) MARKING LINE EPOXY 4-INCH (YELLOW)
- (C) MARKING LINE EPOXY 8-INCH (WHITE) 3' LINE/9' GAP
- (D) MARKING LINE EPOXY 8-INCH (WHITE) CHANNELIZING LANE LINE
- (E) MARKING LINE EPOXY 4-INCH (WHITE) 3' LINE/9' GAP



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PERMANENT SIGNING AND MARKING	SHEET 34	E

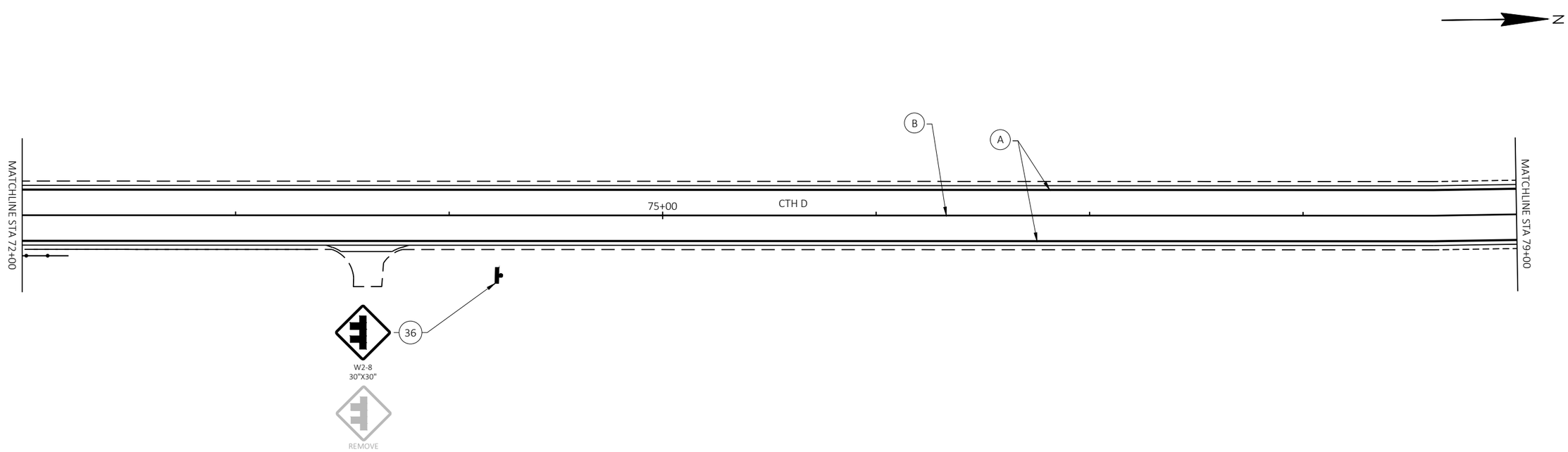


LEGEND

(XXX) SIGN INSTALLATION MARKER

(A) MARKING LINE EPOXY 4-INCH (WHITE)

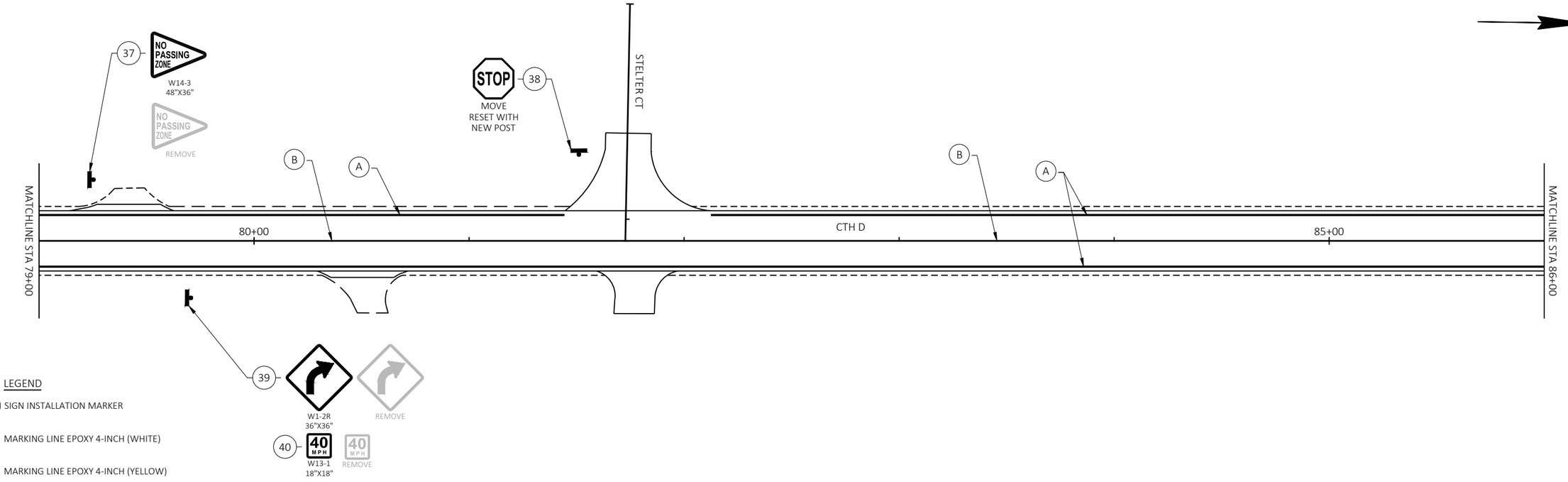
(B) MARKING LINE EPOXY 4-INCH (YELLOW)

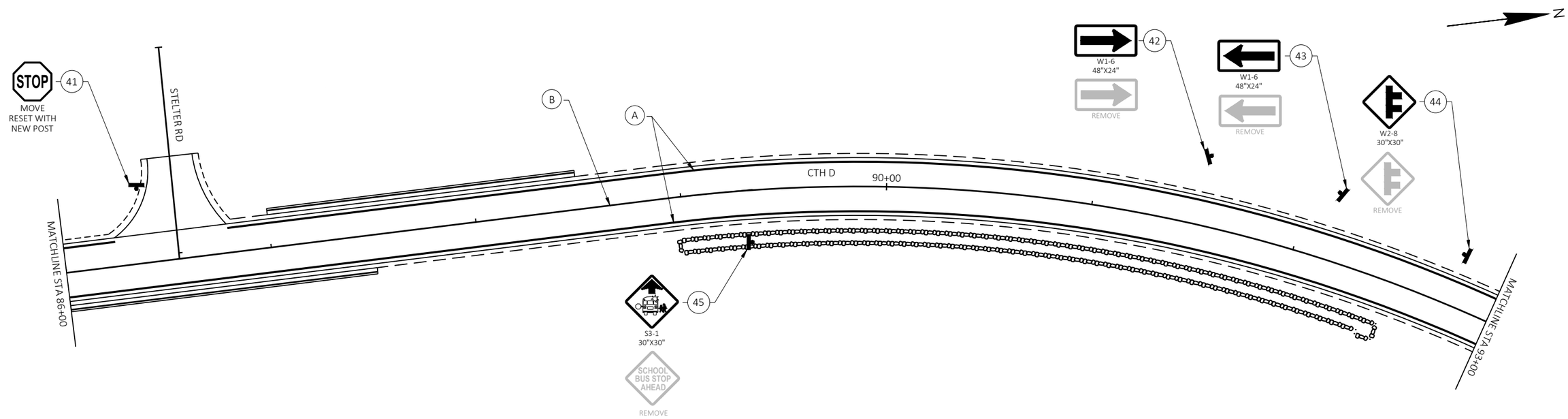


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PERMANENT SIGNING AND MARKING	SHEET 35	E

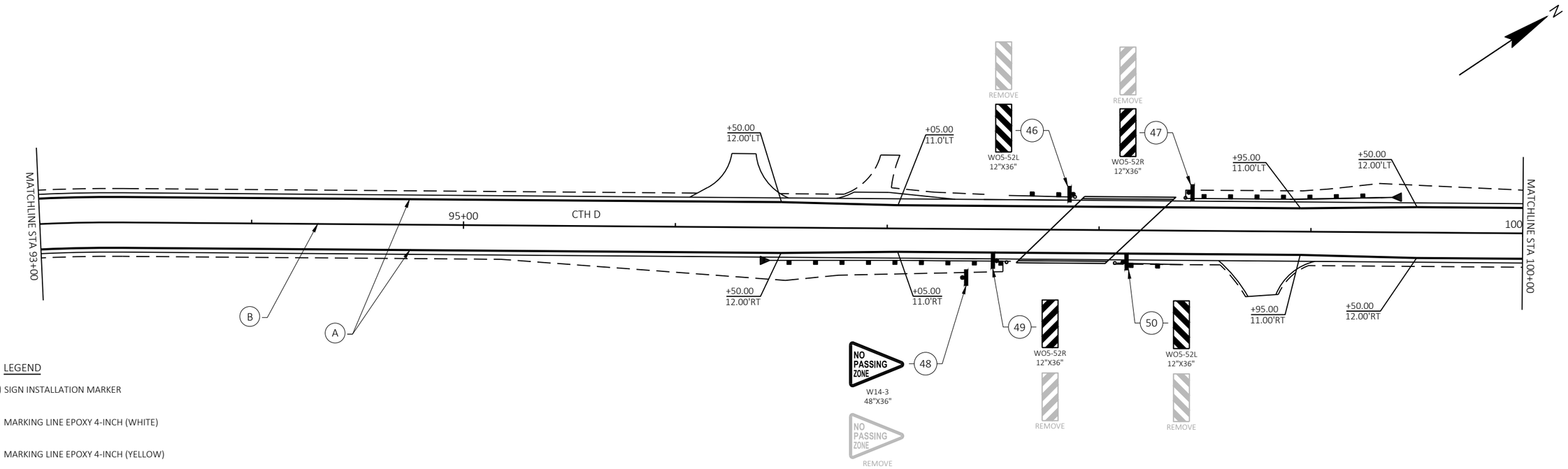
FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\024501_SM.DWG
LAYOUT NAME - PS&M_ - (5)

PLOT DATE : 11/9/2020 2:32 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:50 FT


N
37
NO PASSING ZONE
W14-3
48"X36"
NO PASSING ZONE
REMOVE
STOP
38
MOVE
RESET WITH
NEW POST
STELTER CT
B
A
B
A
MATCHLINE STA 79+00
80+00
CTH D
85+00
MATCHLINE STA 86+00
39
W1-2R
36"X36"
REMOVE
40
40
MPH
W13-1
18"X18"
40
MPH
REMOVE
LEGEND
XXX SIGN INSTALLATION MARKER
A MARKING LINE EPOXY 4-INCH (WHITE)
B MARKING LINE EPOXY 4-INCH (YELLOW)


N
STOP
41
MOVE
RESET WITH
NEW POST
STELTER RD
B
A
CTH D
90+00
MATCHLINE STA 86+00
42
W1-6
48"X24"
REMOVE
43
W1-6
48"X24"
REMOVE
44
W2-8
30"X30"
REMOVE
MATCHLINE STA 93+00
45
S3-1
30"X30"
SCHOOL BUS STOP AHEAD
REMOVE

2

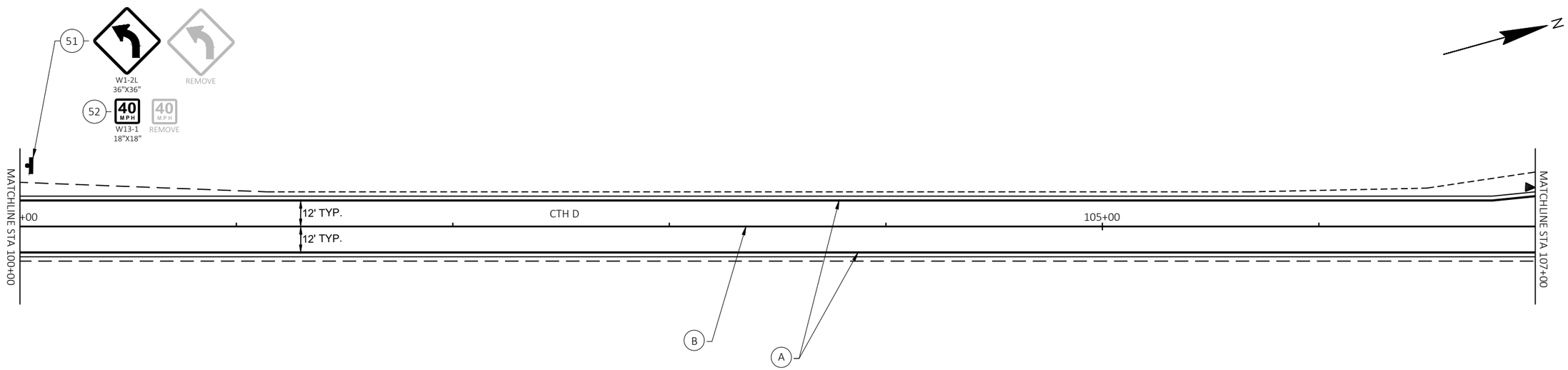


LEGEND

(XXX) SIGN INSTALLATION MARKER

(A) MARKING LINE EPOXY 4-INCH (WHITE)

(B) MARKING LINE EPOXY 4-INCH (YELLOW)

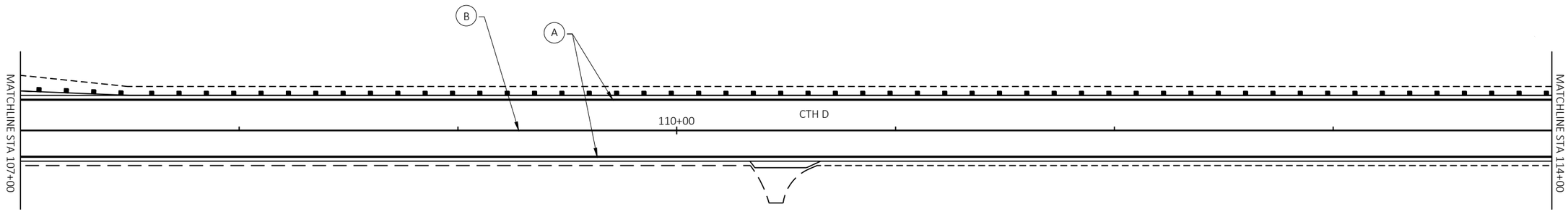


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PERMANENT SIGNING AND MARKING	SHEET 37	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\024501_SM.DWG
LAYOUT NAME - PS&M_ - (7)

PLOT DATE : 11/9/2020 2:32 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

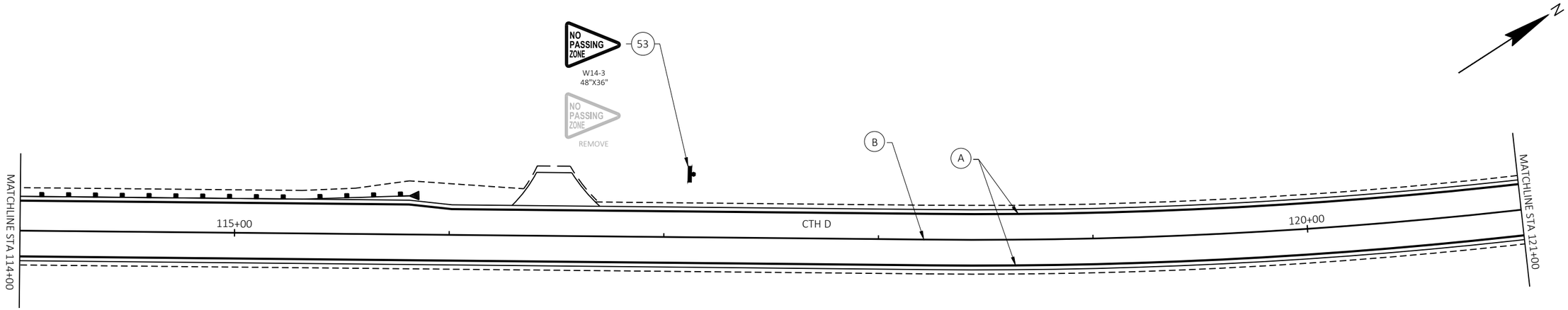


LEGEND

(XXX) SIGN INSTALLATION MARKER

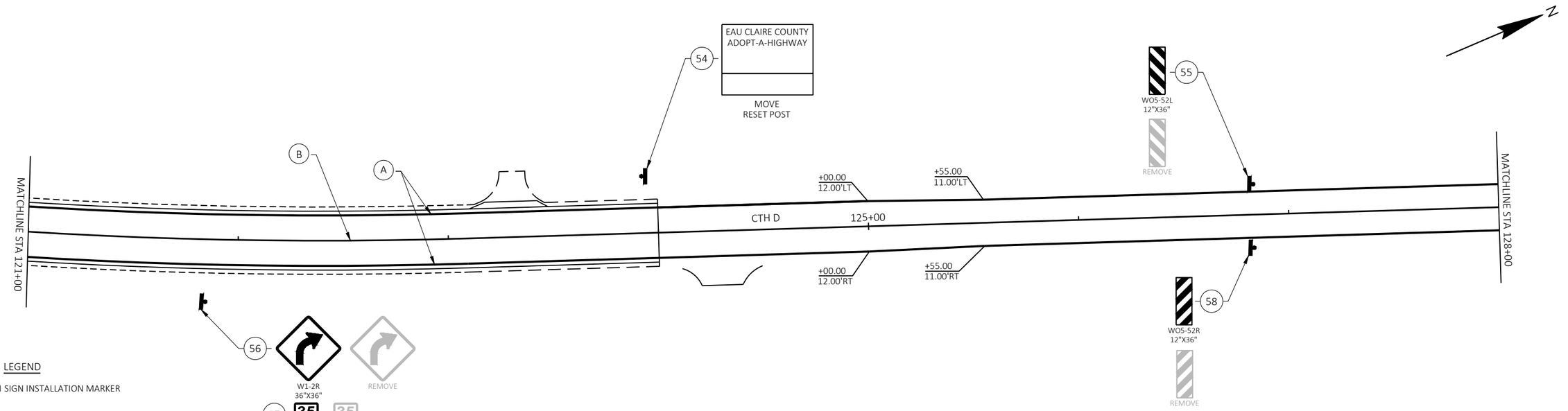
(A) MARKING LINE EPOXY 4-INCH (WHITE)

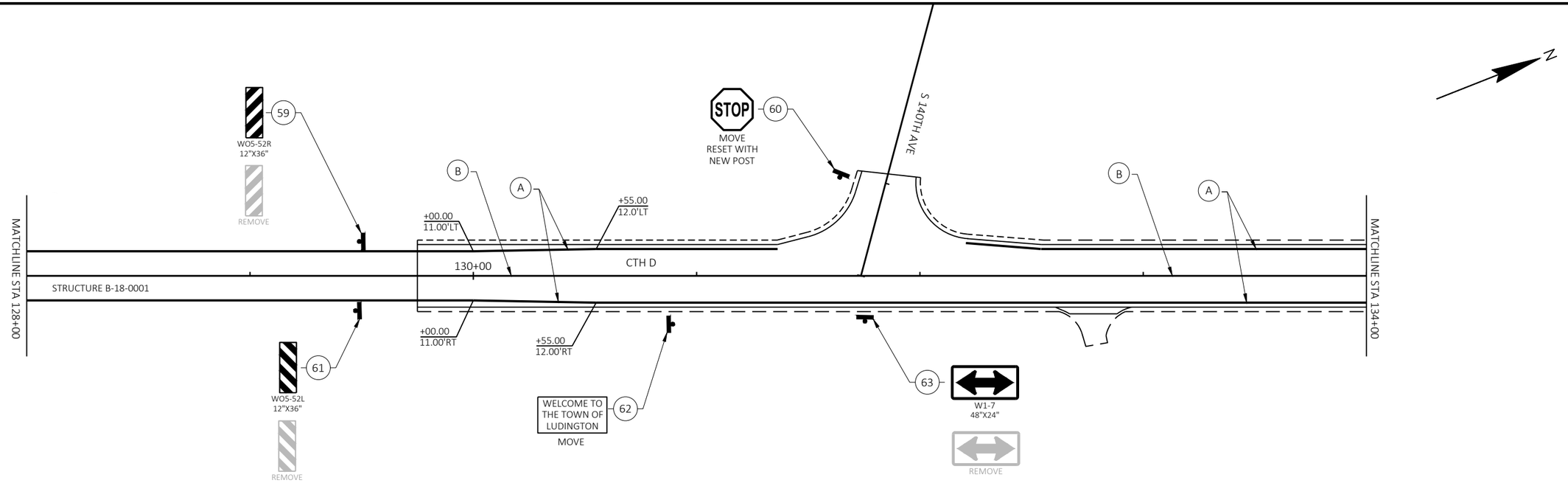
(B) MARKING LINE EPOXY 4-INCH (YELLOW)



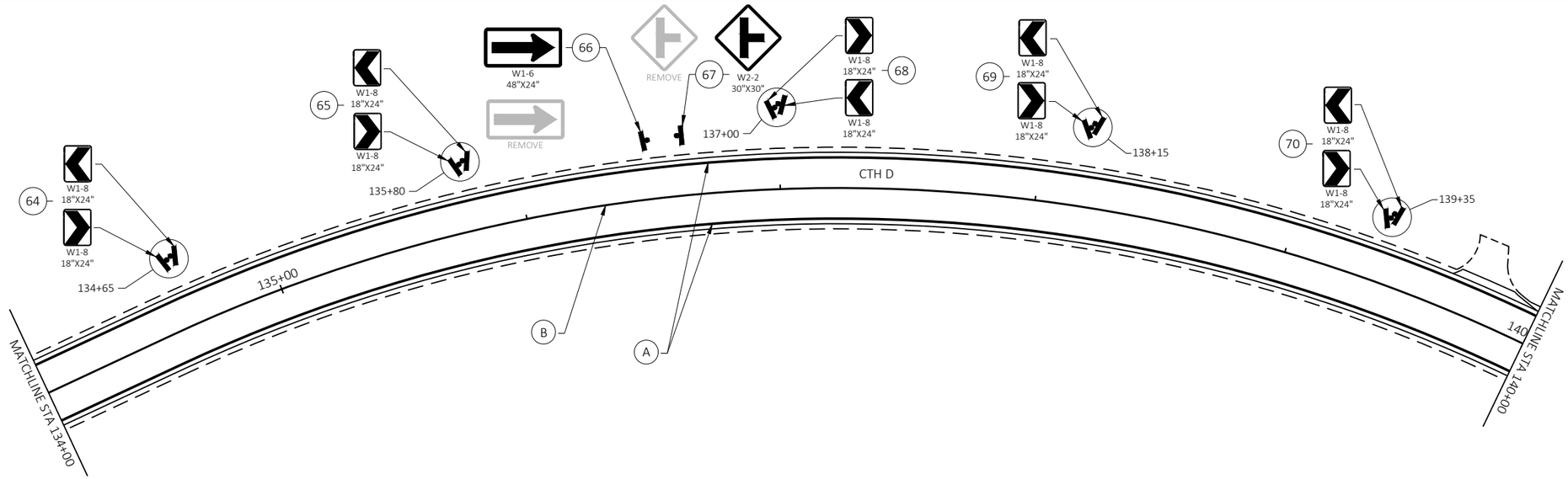
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PERMANENT SIGNING AND MARKING	SHEET 38	E

2





PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PERMANENT SIGNING AND MARKING	SHEET 39	E

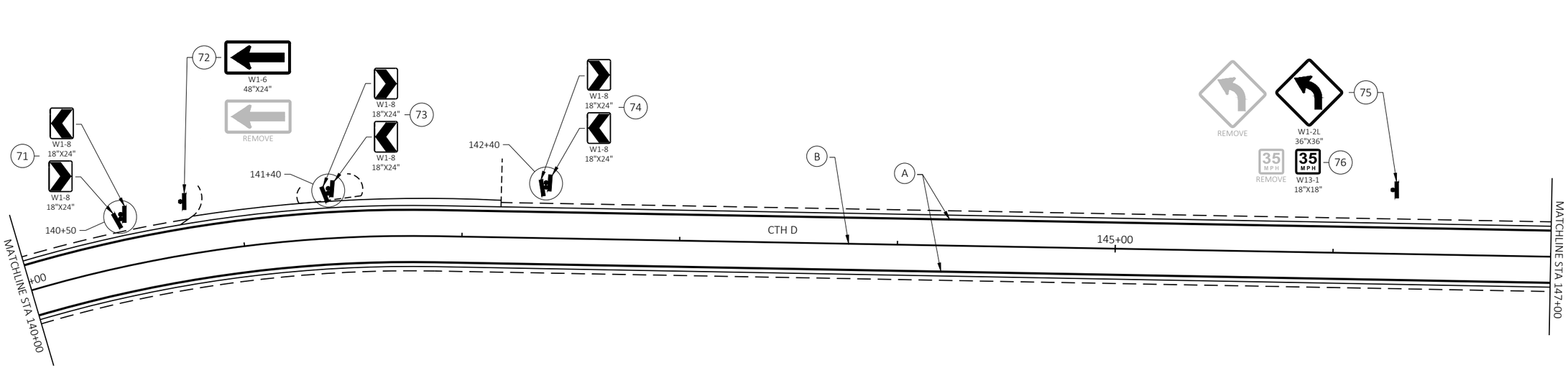


LEGEND

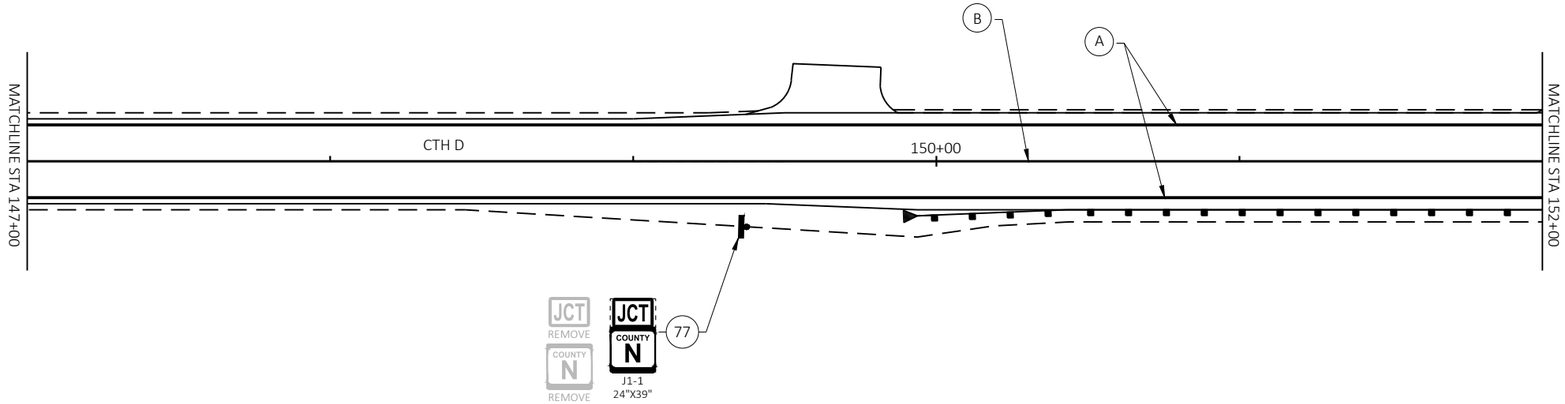
(XXX) SIGN INSTALLATION MARKER

(A) MARKING LINE EPOXY 4-INCH (WHITE)

(B) MARKING LINE EPOXY 4-INCH (YELLOW)



2

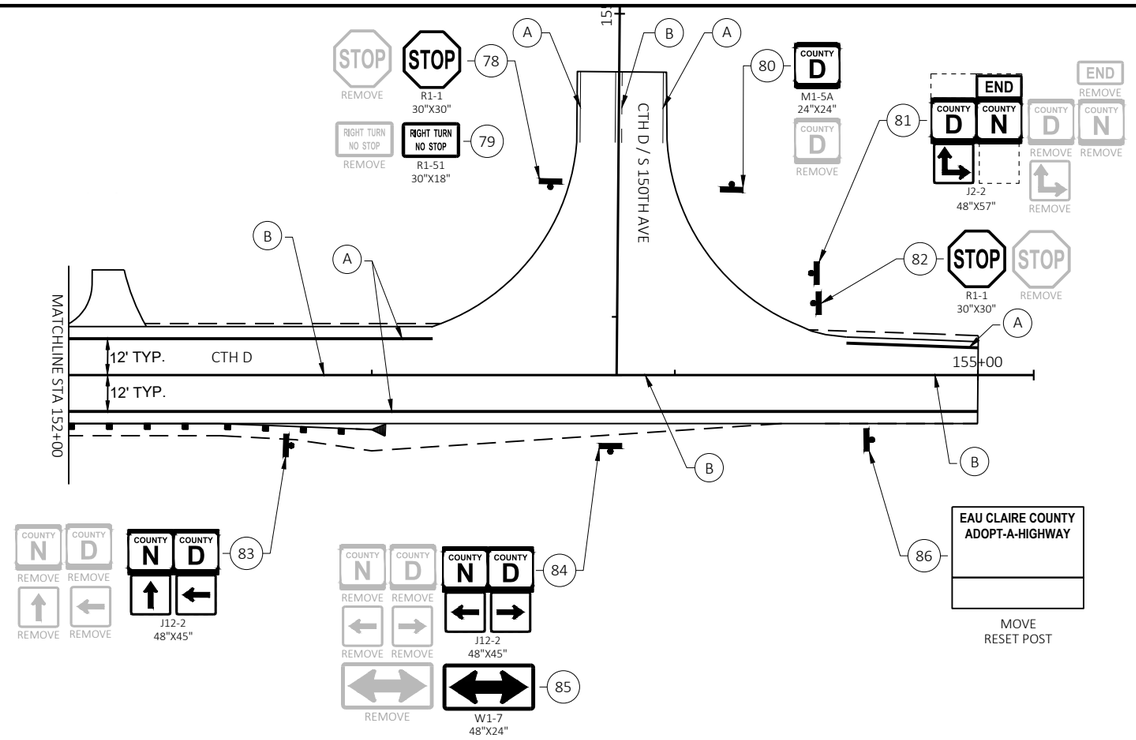


LEGEND

(XXX) SIGN INSTALLATION MARKER

(A) MARKING LINE EPOXY 4-INCH (WHITE)

(B) MARKING LINE EPOXY 4-INCH (YELLOW)



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PERMANENT SIGNING AND MARKING	SHEET 41	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\024501_SM.DWG
LAYOUT NAME - PS&M_ - (11)

PLOT DATE : 11/9/2020 2:32 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

ESTIMATED WORK ZONE DISTRIBUTION OF TEMPORARY TRAFFIC CONTROL SIGNING AND DEVICES

WORK ZONE	APPLICABLE STANDARD DETAIL DRAWINGS	ROAD WORK AHEAD W20-1A (DAYS)	ROAD WORK NEXT 3 MILES G20-1 (DAYS)	END ROAD WORK G20-2A (DAYS)	ROAD WORK XXX FT W20-1C,D,H (DAYS)	ONE LANE ROAD AHEAD W20-4A (DAYS)	RUMBLE STRIPS AHEAD W21-65 (DAYS)	FLAGGER W20-7A (DAYS)	BE PREPARED TO STOP W3-4 (DAYS)	LOOSE GRAVEL W8-7 (DAYS)	SHOULDER DROP-OFF W8-9A (DAYS)	LANE DROP-OFF W8-17 (DAYS)	UNEVEN LANES W8-11 (DAYS)	SHOULDER WORK W21-5 (DAYS)	ROAD CLOSED R11-2 (DAYS)	LANE CLOSED R11-2L (DAYS)	TYPE III BARRICADE (DAYS)	TYPE A WARNING LIGHT (DAYS)	TRAFFIC CONTROL DRUMS (DAYS)	TRAFFIC CONTROL CONES 42" (DAYS)
ADVANCE WARNING SIGNS PROJECT-WIDE	A,H	500	100	150	250	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PULVERIZE & RELAY HMA PAVING PROJECT-WIDE	C,D	---	---	---	---	36	36	36	---	162	---	---	108	---	---	---	---	---	---	---
CTH D CURB & GUTTER STA 34+25 - STA 37+00 STA 86+00 - STA 88+50	B,C,G	---	---	---	---	8	8	8	---	---	---	---	---	16	---	---	---	---	496	---
CTH D CULVERT REMOVAL & REPLACEMENT	C	---	---	---	---	4	4	4	---	---	---	---	---	---	---	---	2	---	10	---
GREEN MEADOW ROAD INTERSECTION GRADING & CTH D DITCHING	B,F,G	---	---	---	---	10	10	10	---	---	---	---	---	10	10	---	43	55	310	---
PROFILE CORRECTION STA 85+75 - STA 93+25	C,E,G	---	---	---	---	8	8	8	---	---	---	---	24	---	---	---	---	---	---	420
BRIDGE RAILING, BEAM GUARD & CRASH CUSHIONS STA 95+00 - STA 101+00	B,C,G	---	---	---	---	16	16	16	---	---	---	---	---	16	---	---	---	---	400	---
BEAM GUARD STA 106+00 LT - STA 117+00 LT	B,C,G	---	---	---	---	10	10	10	---	---	---	---	---	10	---	---	---	---	310	---
CTH D RECONSTRUCTION STA 130+25 - STA 131+75	C,E,G	---	---	---	---	4	4	4	4	---	---	4	---	---	---	2	6	8	6	18
SHOULDER WIDENING AND BEAM GUARD STA 148+50 RT - STA 154+00 RT	B,C,E,G	---	---	---	---	8	8	8	---	---	8	---	---	8	---	---	---	---	256	---
TOTAL DAYS		500	100	150	250	104	104	104	4	162	8	4	132	60	10	2	51	63	1788	438

KEY	STANDARD DETAIL DRAWING
A	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
B	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
C	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
D	TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL
E	TRAFFIC CONTROL DROP-OFF SIGNING
F	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
G	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
H	TRAFFIC CONTROL, ADVANCE WARNING SIGNS, 40 MPH OR LESS

2

2

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

ROAD WORK AHEAD
W20-1A

LOOSE GRAVEL
W8-7

15'D'+00

10+00D

9+00D

8+00D

7+00D

6+00D

5+00D

4+00D

3+00D

ROAD WORK AHEAD
W20-1A

ROAD WORK 250 FT
W20-1H

LOOSE GRAVEL
W8-7

ROAD WORK NEXT 3 MILES
G20-1
60"X24"

W20-7A

ONE LANE ROAD AHEAD
W20-4A

RUMBLE STRIPS AHEAD
W21-65

ROAD WORK AHEAD
W20-1A

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TRAFFIC CONTROL	SHEET 43	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\025101-TC.DWG
LAYOUT NAME - TC_Begin_Project

PLOT DATE : 1/14/2021 9:45 AM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

45'D'+00

50'D'+00

55'D'+00

60'D'+00

2'GM'+00

START BUFFER ZONE (TYP.)

END BUFFER ZONE
START WORK ZONE
(TYP.)

REMOVING SMALL PIPE CULVERT,
STA 52'D'+44

CULVERT PIPE, 24-INCH
STA 53'D'+15

GRADING
AREA

GRADING
AREA

GRADING
AREA

ROAD CLOSED

R11-2
48"X30"

GREEN MEADOW ROAD

CLOSURE RESTRICTED.
SEE SPECIAL PROVISIONS.

DRUM SPACING

CTH D = 50'

GREEN MEADOW ROAD = 25'

LEGEND

GRADING AREAS

CTH 'D'
CULVERT PIPE REMOVAL & CONSTRUCTION.
STAGED UNDER TRAFFIC WITH FLAGGERS.

DRUMS @ 25' SPACING

WORK
AREA

TYPE III
BARRICADE

CULVERT
REMOVAL

CPRC
CLASS III. 24-INCH

RESTORE CTH 'D' TO GRAVEL
SURFACE EACH DAY

TYPICAL TRAFFIC CONTROL

EASTBOUND CLOSURE SHOWN.
WESTBOUND SIMILAR.

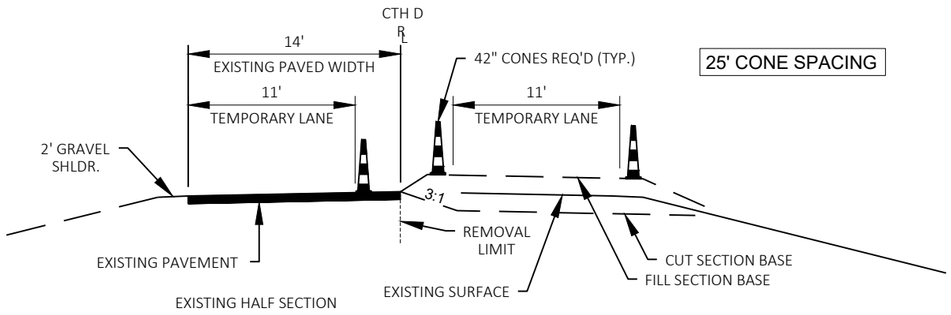
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TRAFFIC CONTROL	SHEET 44	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\025102-TC.DWG
LAYOUT NAME - TC_100_BG_GM
PLOT DATE : 11/10/2020 12:22 PM
PLOT BY : CODY FELDMANN
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

PROFILE CORRECTION STAGING

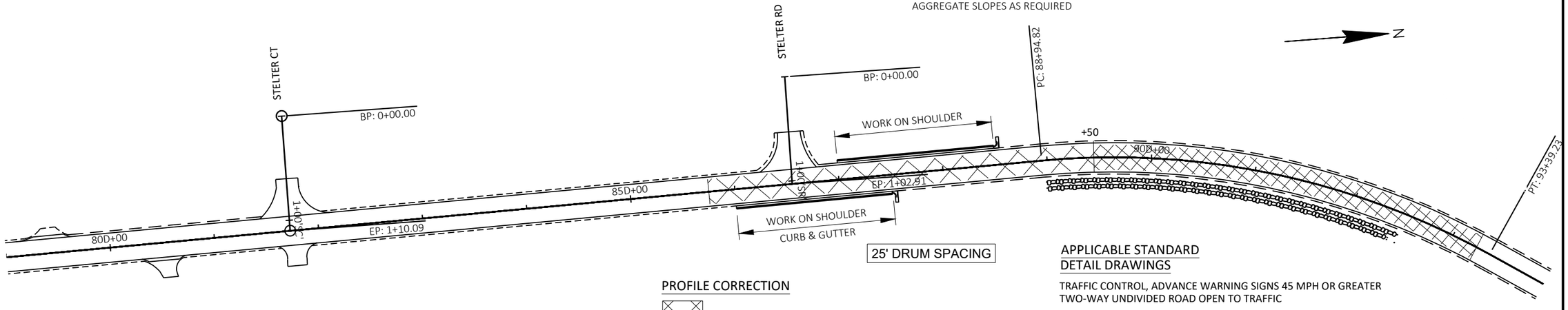
1. PULVERIZE LANE, FIRST PASS PULVERIZE AND RELAY
2. MOVE PULVERIZED MATERIAL
   PROFILE CUT SECTION TO PROFILE FILL SECTION
3. COMPLETE EXCAVATION COMMON (E.B.S.)
   PROFILE CUT SECTION
4. PLACE BASE AGG. DENSE, 1 1/4-INCH
   ALONG PROFILE CUT SECTION
5. COMPLETE STABILIZED BASE RECLAMATION.
   FINISH PROFILE CORRECTION
6. RESTORE TEMPORARY LANES TO GRAVEL SURFACE
   PRIOR TO REOPENING TO TRAFFIC EACH DAY



TRAFFIC CONTROL SECTION
PROFILE CORRECTION
STA 86 'D'+00 -STA 93 'D'+00

2

LIMIT PROFILE DIFFERENTIAL & DROP-OFFS
BETWEEN LANES TO LESS THAN 48 HOURS
DURATION. PLACE 3:1 TEMPORARY
AGGREGATE SLOPES AS REQUIRED



PROFILE CORRECTION

PROFILE CUT

PROFILE FILL

APPLICABLE STANDARD
DETAIL DRAWINGS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL, DROP-OFF SIGNING

SIGNING ON ROADWAYS WITH LOOSE GRAVEL

CHANNELIZING DEVICES, DRUMS CONES, BARRICADES AND VERTICAL PANELS

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE UNDIVIDED ROAD

2

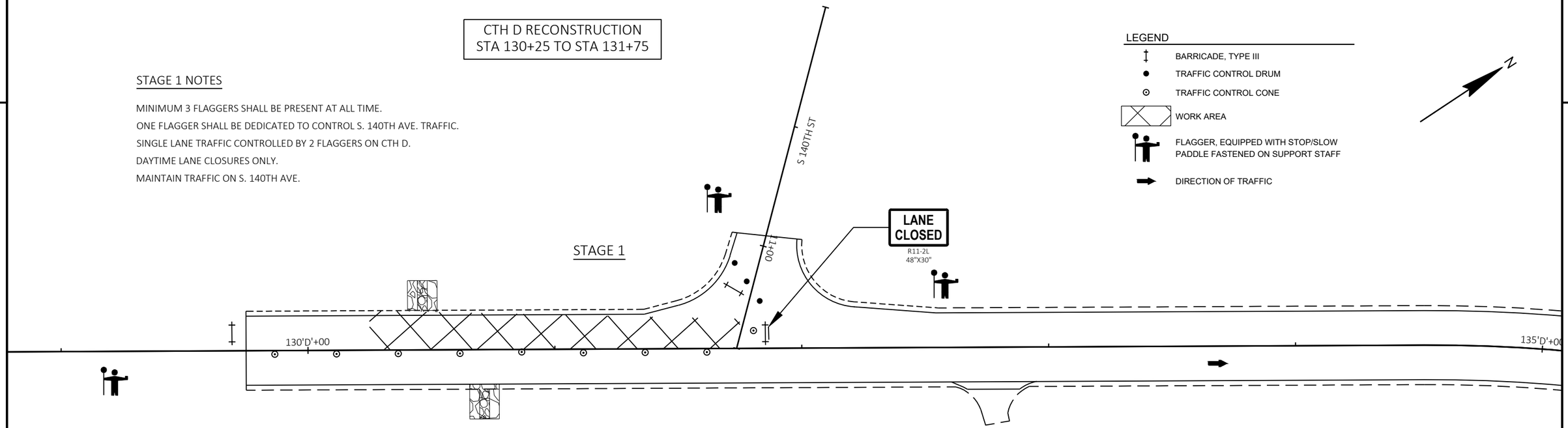
CTH D RECONSTRUCTION
STA 130+25 TO STA 131+75

STAGE 1 NOTES

MINIMUM 3 FLAGGERS SHALL BE PRESENT AT ALL TIME.
ONE FLAGGER SHALL BE DEDICATED TO CONTROL S. 140TH AVE. TRAFFIC.
SINGLE LANE TRAFFIC CONTROLLED BY 2 FLAGGERS ON CTH D.
DAYTIME LANE CLOSURES ONLY.
MAINTAIN TRAFFIC ON S. 140TH AVE.

LEGEND

- BARRICADE, TYPE III
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL CONE
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC

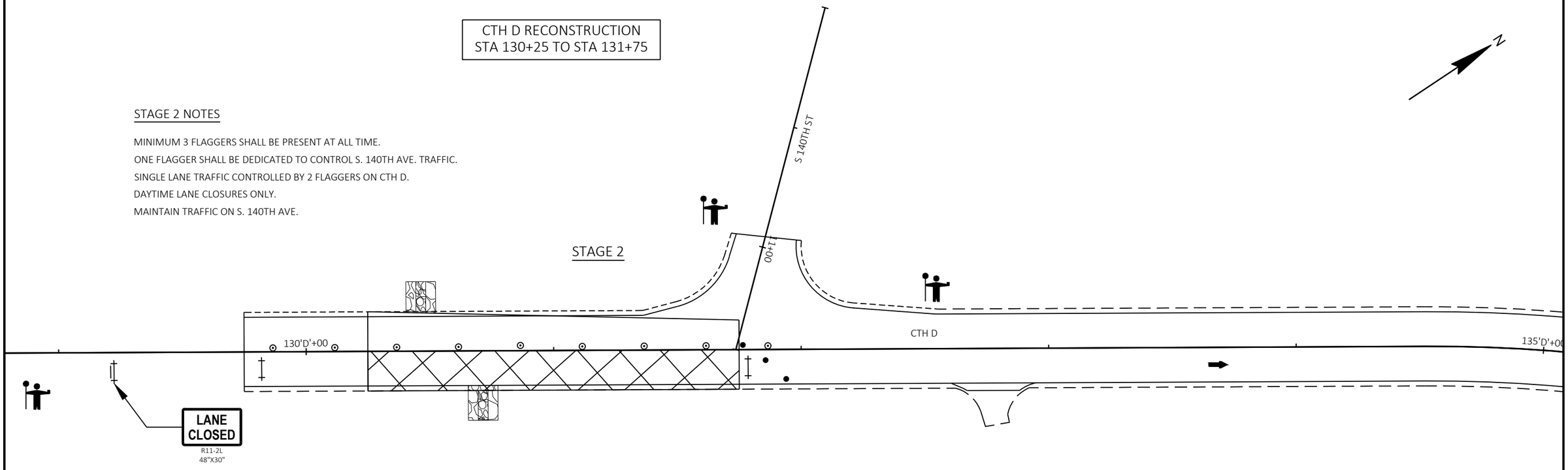


2

CTH D RECONSTRUCTION
STA 130+25 TO STA 131+75

STAGE 2 NOTES

MINIMUM 3 FLAGGERS SHALL BE PRESENT AT ALL TIME.
ONE FLAGGER SHALL BE DEDICATED TO CONTROL S. 140TH AVE. TRAFFIC.
SINGLE LANE TRAFFIC CONTROLLED BY 2 FLAGGERS ON CTH D.
DAYTIME LANE CLOSURES ONLY.
MAINTAIN TRAFFIC ON S. 140TH AVE.



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	TRAFFIC CONTROL	SHEET 46	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - TC_40_BG_130+25-131+75_SGN

PLOT DATE : 11/10/2020 12:24 PM PLOT BY : CODY FELDMANN PLOT NAME : PLOT SCALE : ##########

7823-07-72

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	8.000	8.000
0004	201.0205	Grubbing	STA	8.000	8.000
0006	203.0100	Removing Small Pipe Culverts	EACH	3.000	3.000
0008	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,930.000	1,930.000
0010	204.0120	Removing Asphaltic Surface Milling	SY	1,224.000	1,224.000
0012	204.0165	Removing Guardrail	LF	1,475.000	1,475.000
0014	204.0170	Removing Fence	LF	100.000	100.000
0016	205.0100	Excavation Common	CY	1,765.000	1,765.000
0018	208.0100	Borrow	CY	686.000	686.000
0020	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 7823-07-72	LS	1.000	1.000
0022	211.0100	Prepare Foundation for Asphaltic Paving (project) 02. 7823-07-72	LS	1.000	1.000
0024	213.0100	Finishing Roadway (project) 01. 7823-07-72	EACH	1.000	1.000
0026	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,745.000	1,745.000
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,159.000	2,159.000
0030	305.0500	Shaping Shoulders	STA	227.000	227.000
0032	312.0110	Select Crushed Material	TON	468.000	468.000
0034	325.0100	Pulverize and Relay	SY	41,531.000	41,531.000
0036	374.1020.S	QMP Pulverize and Relay Compaction	SY	41,213.000	41,213.000
0038	416.1010	Concrete Surface Drains	CY	3.300	3.300
0040	455.0605	Tack Coat	GAL	2,419.000	2,419.000
0042	460.2000	Incentive Density HMA Pavement	DOL	6,680.000	6,680.000
0044	460.5223	HMA Pavement 3 LT 58-28 S	TON	5,860.000	5,860.000
0046	460.5244	HMA Pavement 4 LT 58-34 S	TON	4,699.000	4,699.000
0048	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	31.000	31.000
0050	509.9010.S	Removing Asphaltic Concrete Deck Overlay (structure) 01. B-18-945	SY	55.000	55.000
0052	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	14.000	14.000
0054	520.3418	Culvert Pipe Class III-A Non-metal 18-Inch	LF	256.000	256.000
0056	522.0160	Culvert Pipe Reinforced Concrete Class III 60-Inch	LF	8.000	8.000
0058	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	64.000	64.000
0060	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0062	522.1060	Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	EACH	1.000	1.000
0064	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	950.000	950.000
0066	601.0582	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type T	LF	125.000	125.000
0068	606.0100	Riprap Light	CY	192.000	192.000
0070	606.0200	Riprap Medium	CY	3.000	3.000
0072	614.0010	Barrier System Grading Shaping Finishing	EACH	4.000	4.000

7823-07-72

Line	Item	Item Description	Unit	Total	Qty
0074	614.0400	Adjusting Steel Plate Beam Guard	LF	12.000	12.000
0076	614.0805	Crash Cushions Permanent Low Maintenance	EACH	2.000	2.000
0078	614.0950	Replacing Guardrail Posts and Blocks	EACH	1.000	1.000
0080	614.2300	MGS Guardrail 3	LF	1,602.000	1,602.000
0082	614.2330	MGS Guardrail 3 K	LF	150.000	150.000
0084	614.2350	MGS Guardrail Short Radius	LF	75.000	75.000
0086	614.2500	MGS Thrie Beam Transition	LF	78.000	78.000
0088	614.2610	MGS Guardrail Terminal EAT	EACH	8.000	8.000
0090	614.2630	MGS Guardrail Short Radius Terminal	EACH	1.000	1.000
0092	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7823-07-72	EACH	1.000	1.000
0094	619.1000	Mobilization	EACH	1.000	1.000
0096	624.0100	Water	MGAL	334.000	334.000
0098	625.0100	Topsoil	SY	2,591.000	2,591.000
0100	625.0500	Salvaged Topsoil	SY	2,341.000	2,341.000
0102	627.0200	Mulching	SY	2,040.000	2,040.000
0104	628.1504	Silt Fence	LF	3,215.000	3,215.000
0106	628.1520	Silt Fence Maintenance	LF	6,430.000	6,430.000
0108	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0110	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0112	628.2006	Erosion Mat Urban Class I Type A	SY	500.000	500.000
0114	628.2008	Erosion Mat Urban Class I Type B	SY	1,500.000	1,500.000
0116	628.2027	Erosion Mat Class II Type C	SY	982.000	982.000
0118	628.7504	Temporary Ditch Checks	LF	16.000	16.000
0120	628.7555	Culvert Pipe Checks	EACH	4.000	4.000
0122	629.0210	Fertilizer Type B	CWT	4.000	4.000
0124	630.0120	Seeding Mixture No. 20	LB	79.000	79.000
0126	630.0130	Seeding Mixture No. 30	LB	62.000	62.000
0128	630.0500	Seed Water	MGAL	105.000	105.000
0130	633.5200	Markers Culvert End	EACH	2.000	2.000
0132	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	16.000	16.000
0134	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	45.000	45.000
0136	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	13.000	13.000
0138	634.0812	Posts Tubular Steel 2x2-Inch X 12-FT	EACH	8.000	8.000
0140	637.2210	Signs Type II Reflective H	SF	99.000	99.000
0142	637.2230	Signs Type II Reflective F	SF	322.000	322.000
0144	638.2102	Moving Signs Type II	EACH	9.000	9.000
0146	638.2602	Removing Signs Type II	EACH	62.000	62.000
0148	638.3000	Removing Small Sign Supports	EACH	46.000	46.000
0150	642.5001	Field Office Type B	EACH	1.000	1.000

7823-07-72

Line	Item	Item Description	Unit	Total	Qty
0152	643.0300	Traffic Control Drums	DAY	1,788.000	1,788.000
0154	643.0420	Traffic Control Barricades Type III	DAY	51.000	51.000
0156	643.0705	Traffic Control Warning Lights Type A	DAY	63.000	63.000
0158	643.0900	Traffic Control Signs	DAY	1,694.000	1,694.000
0160	643.1070	Traffic Control Cones 42-Inch	DAY	438.000	438.000
0162	643.5000	Traffic Control	EACH	1.000	1.000
0164	645.0130	Geotextile Type R	SY	421.000	421.000
0166	645.0220	Geogrid Type SR	SY	667.000	667.000
0168	646.1020	Marking Line Epoxy 4-Inch	LF	46,696.000	46,696.000
0170	646.3020	Marking Line Epoxy 8-Inch	LF	230.000	230.000
0172	648.0100	Locating No-Passing Zones	MI	2.700	2.700
0174	650.4500	Construction Staking Subgrade	LF	2,450.000	2,450.000
0176	650.5000	Construction Staking Base	LF	3,200.000	3,200.000
0178	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	875.000	875.000
0180	650.6000	Construction Staking Pipe Culverts	EACH	4.000	4.000
0182	650.8000	Construction Staking Resurfacing Reference	LF	14,331.000	14,331.000
0184	650.9910	Construction Staking Supplemental Control (project) 01. 7823-07-72	LS	1.000	1.000
0186	650.9920	Construction Staking Slope Stakes	LF	2,450.000	2,450.000
0188	690.0150	Sawing Asphalt	LF	398.000	398.000
0190	740.0440	Incentive IRI Ride	DOL	10,402.000	10,402.000
0192	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,000.000	1,000.000
0194	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	630.000	630.000
0196	SPV.0060	Special 01. Adjusting Sanitary Sewer Manhole Cover	EACH	1.000	1.000
0198	SPV.0060	Special 02. Adjusting Valve Stand Cover	EACH	3.000	3.000
0200	SPV.0060	Special 03. Field Entrance	EACH	6.000	6.000
0202	SPV.0090	Special 01. Thrie Beam MGS Special	LF	25.000	25.000
0204	SPV.0090	Special 02. Railing Steel Type W Modified	LF	100.000	100.000
0206	SPV.0180	Special 01. Stabilized Base Reclamation	SY	44,287.000	44,287.000
0208	SPV.0195	Special 01. Asphalt Stabilizing Agent	TON	544.000	544.000
0210	SPV.0195	Special 02. Base Aggregate Special	TON	4,422.000	4,422.000

3

CLEARING AND GRUBBING

PROJECT ID	STATION			LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	REMARKS
7823-07-72							
	106+00	-	108+00	LT	2	2	EAT GRADING
	115+00	-	116+00	LT	1	1	EAT GRADING
	148+50	-	153+50	RT	5	5	SHLDR WIDENING
PROJECT 7823-07-72 TOTAL					8	8	
TOTAL					8	8	

REMOVING CULVERTS

PROJECT ID	STATION	LOCATION	CAT 0010 203.0100 REMOVING SMALL PIPE CULVERTS EACH	CAT 0020 203.0100 REMOVING SMALL PIPE CULVERTS EACH	REMARKS
7823-07-72					
	47+88	CTH D, RT	---	1	18" FE CULVERT
	52+44	CTH D	1	---	1 - 24" CULVERT
	57+80	CTH D, LT	1	---	18" FE CULVERT
PROJECT 7823-07-72 TOTAL			2	1	
TOTAL			2	1	

REMOVING PAVEMENT

PROJECT ID	STATION	TO	STATION	LOCATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	CAT 0020 204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	CAT 0020 509.9010.S REMOVING ASPHALTIC CONC. DECK OVERLAY SY	690.0150 SAWING ASPHALT* LF	REMARKS
7823-07-72										
	11+50	-	13+34	CTH D	---	822	---	---	---	MAINLINE
	13+34	-	14+00	CTH D	249	---	---	---	40	MAINLINE
	15+20	-	16+80	CTH D, LT	155	110	---	---	50	BRICKYARD STREET
	81+50	-	81+95	CTH D, LT	110	---	---	---	20	STELTER CT
	86+30	-	86+80	CTH D, LT	117	---	---	---	20	STELTER RD
	97+00	-	98+90	CTH D	467	---	---	---	---	B-18-945 & APPROACHES
	97+79		98+21	B-18-945	---	---	100	55	---	B-18-945
	124+00	-	124+75	CTH D	233	---	---	---	30	MAINLINE
	129+75	-	130+25	CTH D	155	---	---	---	28	MAINLINE
	131+50	-	132+20	CTH D, LT	106	---	---	---	20	S. 140TH ST
	154+31	-	154+81	CTH D	183	---	---	---	28	MAINLINE
	154+50	-	155+00	CTH N	155	---	---	---	24	MAINLINE
	2+25	-	3+31	GREEN MEADOW RD	---	192	---	---	56	
PROJECT 7823-07-72 TOTAL					1,930	1,124	100	55	316	
TOTAL					1930	1124	100	55	316	

*OTHER QUANTITIES SHOWN ELSEWHERE

REMOVING GUARDRAIL

PROJECT ID	STATION	TO	STATION	OFFSET	LOCATION	204.0165 REMOVING GUARDRAIL LF
7823-07-72						
	51+70	-	55+10	RT	CTH D	340
	2'GM'+25	-	3'GM'+31	LT	G MEADOW	70
	55+40	-	58+50	RT	CTH D	340
	96+80	-	99+25	LT&RT	CTH D	286
	111+66	-	116+04	LT	CTH D	439
PROJECT 7823-07-72 TOTAL						1475
TOTAL						1,475

REMOVING FENCE

PROJECT ID	STATION	TO	STATION	OFFSET	LOCATION	204.0170 REMOVING FENCE LF
7823-07-72						
	59+00	-	60+00	RT	CTH D	100
PROJECT 7823-07-72 TOTAL						100
TOTAL						100

EARTHWORK SUMMARY

			CY							
DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	PULVERIZED PAVEMENT MATERIAL (3)	AVAILABLE MATERIAL (4)	UNEXPANDED FILL	EXPANDED FILL (5) FACTOR 1.20	MASS ORDINATE +/- (6)	WASTE	208.0100 BORROW
DIVISION 1										
QR-CTHD-34+25-TO-37+00	34+25/37+00	CTH D	113	192	113	29	35	78	78	0
QR-CTHD-49+50-TO-61+00	49+52.702/61+00	CTH D	784	757	780	866	1,039	-255	0	255
QR-CTHD-83+00-TO-93+00	83+00/93+00	CTH D	351	700	351	37	44	307	307	0
QR-CTHD-106+00-TO-108+00	106+00/108+00	CTH D	49	0	49	36	43	6	6	0
QR-CTHD-115+00-TO-117+00	115+00/117+00	CTH D	34	0	34	79	95	-61	0	61
QR-CTHD-130+250-TO-132+00	130+25/132+00	CTH D	309	119	309	19	23	286	286	0
QR-CTHD-148+50-TO-154+50	148+50/154+50	CTH D	65	0	65	346	415	-350	0	350
QR-GREENMEADOW	02+25/03+55	GREEN Meadow RD	60	0	60	67	80	-20	0	20
DIVISION 1 SUBTOTAL			1,765	1,768	1,761	1,479	1,775	-9	677	686
GRAND TOTAL			1,765	1,768	1,761	1,479	1,775	-9	677	686

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) PULVERIZED PAVEMENT ASSUMED LEFT IN PLACE AND NOT INCLUDED IN CUT VOLUME.

(3) PULVERIZED PAVEMENT MATERIAL FOR INFORMATIONAL PURPOSES ONLY

(4) AVAILABLE MATERIAL = CUT

(5) EXPANDED FILL FACTOR = 1.2

EXPANDED FILL = (UNEXPANDED FILL) * FILL FACTOR

(6) 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.

(7) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

PREPARE FOUNDATION

PROJECT ID	STATION	TO	STATION	OFFSET	LOCATION	CAT 0010 211.0100 PREPARE FOUNDATION FOR ASPHALT PAVING LS	CAT 0020 211.0100 PREPARE FOUNDATION FOR ASPHALT PAVING LS
7823-07-72							
	13+50	-	154+81	LT&RT	CTH D	1	---
	97+77	-	98+19	LT&RT	B-18-945	---	1
PROJECT 7823-07-72 TOTAL						1	1
TOTAL						1	1

FINISHING ROADWAY

PROJECT ID		213.0100 FINISHING ROADWAY LS
7823-07-72	PROJECT - WIDE	1
PROJECT 7823-07-72 TOTAL		1
TOTAL		1

BASE COURSE DRIVEWAYS AND FIELD ENTRANCES

PROJECT ID	STATION	LOCATION	CAT 0010 305.0110 BASE AGGREGATE DENSE 3/4-INCH* TON	CAT 0020 305.0110 BASE AGGREGATE DENSE 3/4-INCH* TON	624.0100 WATER* MGAL	REMARKS
7823-07-72						
	15+79	CTH D, RT	3	---	0.0	
	25+62	CTH D, LT	3	---	0.1	
	25+62	CTH D, RT	3	---	0.0	
	27+03	CTH D, RT	3	---	0.0	
	29+63	CTH D, LT	3	---	0.0	
	35+63	CTH D, RT	1	---	0.0	
	36+57	CTH D, RT	1	---	0.0	
	36+59	CTH D, LT	1	---	0.0	
	44+85	CTH D, LT	---	3	0.0	
	48+55	CTH D, LT	---	3	0.0	
	48+55	CTH D, RT	---	3	0.0	
	57+81	CTH D, LT	---	3	0.0	
	61+78	CTH D, RT	4	---	0.1	
	64+60	CTH D, LT	---	3	0.0	
	66+20	CTH D, RT	---	---	---	
	70+77	CTH D, LT	2	---	0.0	
	71+33	CTH D, RT	4	---	0.1	
	73+61	CTH D, RT	3	---	0.0	
	79+42	CTH D, LT	2	---	0.0	
	80+55	CTH D, RT	3	---	0.0	
	97+01	CTH D, LT	2	---	0.0	
	110+45	CTH D, RT	2	---	0.0	
	116+48	CTH D, LT	3	---	0.0	
	123+31	CTH D, LT	2	---	0.0	
	132+84	CTH D, RT	2	---	0.0	
	141+00	CTH D, LT	5	---	0.1	
	141+86	CTH D, LT	8	---	0.1	
PROJECT 7823-07-72 TOTAL			60	15	0.5	
TOTAL			60	15	0.5	

*OTHER QUANTITIES SHOWN ELSEWHERE

PULVERIZE AND RELAY

PROJECT ID	STATION	TO	STATION	LOCATION	374.1020.S PULVERIZE AND RELAY COMPACTION SY	REMARKS
7823-07-72						
	14+00	-	97+00	CTH D	25,822	APPLIES TO SECOND PASS STABILIZED BASE RECLAMATION
	98+90	-	116+25	CTH D	5,398	APPLIES TO SECOND PASS STABILIZED BASE RECLAMATION
	116+25	-	124+00	CTH D	2,411	APPLIES TO SECOND PASS STABILIZED BASE RECLAMATION
	130+25	-	153+80	CTH D	7,327	APPLIES TO SECOND PASS STABILIZED BASE RECLAMATION
	153+80	-	154+25	CTH N	140	APPLIES TO SECOND PASS STABILIZED BASE RECLAMATION
	153+94	-	154+31	CTH D	115	APPLIES TO SECOND PASS STABILIZED BASE RECLAMATION
PROJECT 7823-07-72 TOTAL					41,213	
TOTAL					41,213	

PULVERIZE AND RELAY

PROJECT ID	STATION	TO	STATION	LOCATION	325.0100 PULVERIZE AND RELAY SY	624.0100 WATER* MGAL	SPV.0180.01 STABILIZED BASE RECLAMATION SY	REMARKS
7823-07-72								
	14+00	-	97+00	CTH D	25,822	129	28,578	
	98+90	-	116+25	CTH D	5,398	27	5,398	
	116+25	-	124+00	CTH D	2,583	13	2,583	
	130+25	-	153+80	CTH D	7,408	37	7,408	
	153+80	-	154+25	CTH N	140	1	140	
	153+94	-	154+31	CTH D	180	1	180	
PROJECT 7823-07-72 TOTAL					41,531	208	44,287	
TOTAL					41,531	208	44,287	

*OTHER QUANTITIES SHOWN ELSEWHERE

SHAPING SHOULDERS

PROJECT ID	STATION	TO	STATION	OFFSET	LOCATION	305.0500 SHAPING SHOULDERS STA
7823-07-72						
	14+00	-	49+00	LT	CTH D	31
	14+00	-	49+00	RT	CTH D	32
	49+00	-	61+00	LT	CTH D	12
	49+00	-	61+00	RT	CTH D	0
	61+00	-	97+00	LT	CTH D	35
`	61+00	-	97+00	RT	CTH D	32
	99+00	-	124+00	LT	CTH D	21
	99+00	-	124+00	RT	CTH D	25
	132+00	-	154+30	LT	CTH D	22
	132+00	-	149+00	RT	CTH D	17
PROJECT 7823-07-72 TOTAL			.			227
TOTAL						227

BASE COURSE ITEMS

PROJECT ID	STATION	-	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH* TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	606.0100 RIPRAP LIGHT* CY	645.0220 GEOGRID TYPE SR SY	SPV.0195.02 BASE AGG SPECIAL TON	624.0100 WATER* MGAL	REMARKS
7823-07-72												
	13+35	-	49+50	CTH D, RT	108	---	---	---	---	---	1.6	
	13+35	-	61+00	CTH D, LT	143	---	---	---	---	---	2.1	
	49+50	-	61+00	CTH D, RT	121	595	---	---	---	---	10.7	TURN LANE
	2+25	-	3+31	G MEADOW, LT	5	138	---	---	---	---	2.1	
	61+00	-	97+75	CTH D	516	894	---	---	---	---	21.5	
	98+25	-	124+75	CTH D	433	160	---	---	---	---	6.5	
	130+25		131+75	CTH D	20	---	468	---	667	---	0.3	EBS BACKFILL
			130+46	CTH D, LT	---	---	---	4	---	---	---	RELIEF TRENCH
			131+71	CTH D, RT	---	---	---	4	---	---	---	RELIEF TRENCH
	131+75	-	153+81	CTH D	296	372	---	---	---	---	10.0	
	153+81	-	154+81	CTH D	13	---	---	---	---	---	0.2	
	153+81	-	155+00	CTH N	15	---	---	---	---	---	0.2	
	14+00	-	97+00	CTH D	---	---	---	---	---	2,927	43.9	
	98+95	-	124+00	CTH D	---	---	---	---	---	615	13.2	
	130+25	-	154+31	CTH D	---	---	---	---	---	855	12.8	
	153+81	-	154+50	CTH N	---	---	---	---	---	25	0.4	
PROJECT 7823-07-72 TOTAL					1,670	2,159	468	8	667	4,422	125.5	
TOTAL					1,670	2,159	468	8	667	4,422	125.5	

*OTHER QUANTITIES SHOWN ELSEWHERE

ASPHALTIC CONCRETE PAVEMENT ITEMS

PROJECT ID	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	CAT 0020 455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5244 HMA PAVEMENT 4 LT 58-34 S TON	CAT 0020 460.5244 HMA PAVEMENT 4 LT 58-34 S TON	REMARKS
7823-07-72										
	11+50	-	14+00	CTH D	78	---	---	92	---	MILL & OVERLAY
	14+00	-	51+73	CTH D	693	---	1,756	1,378	---	INCL. BRICKYARD ST.
	51+73	-	58+75	CTH D	109	---	276	215	---	EXCL. RT TURN & TAPERS
	51+73	-	58+75	CTH D	30	---	110	85	---	RT TURN & TAPERS
	2+25	-	3+00	G MEADOW	13	---	0	22	---	MILL & OVERLAY
	2+71	-	3+31	G MEADOW	12	---	30	24	---	
	58+75	-	60+50	CTH D	31	---	78	61	---	
	60+50	-	97+79	CTH D	598	---	1,501	1,167	---	INCL. STELTER CT & RD
	97+79	-	98+21	B-18-945	---	3	---	---	15	DECK OVERLAY
	98+21	-	124+75	CTH D	413	---	1,043	812	---	
	129+75	-	153+00	CTH D	372	---	939	731	---	INCL. S 140TH AVE
	153+00	-	154+81	CTH D	49	---	63	49	---	
	154+25	-	155+00	CTH N	17	---	63	49	---	
PROJECT 7823-07-72 TOTAL					2,416	3	5,860	4,684	15	
TOTAL					2,416	3	5,860	4,684	15	

CONCRETE SURFACE DRAINS

PROJECT ID	STATION	OFFSET	LOCATION	416.1010 CONC. SURFACE DRAINS CY	606.0100 RIPRAP LIGHT* CY	645.0130 GEOTEXTILE TYPE R* SY
7823-07-72						
	34+25	RT	CTH D	0.25	0.5	7
	36+75	RT	CTH D	0.25	0.5	7
	35+00	LT	CTH D	0.25	0.5	7
	37+00	LT	CTH D	0.25	0.5	7
	87+55	RT	CTH D	0.25	0.5	7
	88+55	LT	CTH D	0.25	0.5	7
	2+69	LT	G MEADOW	1.75	3.0	17
PROJECT 7823-07-72 TOTAL				3.25	6.0	59
TOTAL				3.3	6.0	59

*OTHER QUANTITIES SHOWN ELSEWHERE

ASPHALTIC CONCRETE PAVEMENT ITEMS

PROJECT ID	STATION	LOCATION	465.0120 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENT. TON	690.0150 SAWING ASPHALT* LF
7823-07-72				
	13+60	CTH D, LT	4	---
	14+85	CTH D, LT	4	---
	35+63	CTH D, RT	2	---
	36+57	CTH D, RT	2	---
	36+59	CTH D, LT	2	---
	81+77	CTH D, RT	2	16
	96+32	CTH D, LT	2	10
	98+77	CTH D, RT	3	10
	124+25	CTH D, RT	3	---
	139+74	CTH D, LT	2	10
	149+68	CTH D, LT	3	26
	152+13	CTH D, LT	2	10
PROJECT 7823-07-72 TOTAL			31	82
TOTAL			31	82

*OTHER QUANTITIES SHOWN ELSEWHERE

ASPHALTIC CONCRETE PAVEMENT ITEMS

SPV.0195.01

PROJECT ID	STATION	TO	STATION	LOCATION	ASPHALT STABILIZING AGENT TON
7823-07-72					
	13+50	-	153+81	CTH D	0
	11+50	-	14+00	CTH D	---
	14+00	-	51+73	CTH D	164.3
	51+73	-	58+75	CTH D	26.9
	51+73	-	58+75	CTH D	10.8
	2+25	-	3+00	G MEADOW	---
	2+71	-	3+31	G MEADOW	---
	58+75	-	60+50	CTH D	7.7
	60+50	-	97+79	CTH D	138.9
	97+79	-	98+21	B-18-945	---
	98+21	-	124+75	CTH D	96.0
	129+75	-	153+00	CTH D	87.2
	153+00	-	154+81	CTH D	6.2
	154+25	-	155+00	CTH N	6.2
PROJECT 7823-07-72 TOTAL					544.2
TOTAL					544

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CULVERT PIPE ITEMS

PROJECT ID	STATION	OFFSET	LOCATION	INLET ELEV.	OUTLET ELEV.	CAT 0010 520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	CAT 0020 520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH EACH	CAT 0010 520.3418 CULVERT PIPE CLASS III-A NON METAL 18-INCH LF	CAT 0020 520.3418 CULVERT PIPE CLASS III-A NON METAL 18-INCH LF	522.0424 CULVERT PIPE REINF CONCRETE Class IV 24-INCH LF	522.0160 CULVERT PIPE REINF CONCRETE CLASS III 60-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE 24-INCH EACH	522.1060 APRON ENDWALLS FOR CULVERT PIPE 60-INCH EACH	628.7555 CULVERT PIPE CHECKS EACH	633.5200 MARKERS CULVERT END EACH
7823-07-72															
	44+85	LT	FE 25' LT	930.96	930.60	---	2	---	36	---	---	---	---	---	---
	48+55	LT	FE 25' LT	927.20	926.84	---	2	---	36	---	---	---	---	---	---
	48+55	RT	FE 25' RT	927.11	926.75	---	2	---	36	---	---	---	---	---	---
	53+15	-	CTH D	922.10	921.80	---	---	---	---	64	---	2	---	4	2
	2+81	LT	G MEADOW	917.38	917.18	---	---	---	---	---	8	---	1	---	---
	57+81	LT	CTH D	872.25	871.62	2	---	36	---	---	---	---	---	---	---
	64+60	LT	FE 25' LT	927.14	926.96	---	2	---	36	---	---	---	---	---	---
	66+20	RT	FE 25' RT	927.00	926.60	---	2	---	36	---	---	---	---	---	---
	107+00	LT	BEHIND EAT	861.75	861.50	2	---	40	---	---	---	---	---	---	---
PROJECT 7823-07-72 TOTAL						4	10	76	180	64	8	2	1	4	2
TOTAL						4	10	76	180	64	8	2	1	4	2

CONCRETE CURB & GUTTER ITEMS

PROJECT ID	STATION	TO	STATION	OFFSET	LOCATION	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0582 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T LF	REMARKS
7823-07-72								
	34+25	-	36+75	RT	CTH D	250	---	
	35+00	-	37+00	LT	CTH D	200	---	
	86+00	-	87+50	RT	CTH D	250	---	
	87+00	-	88+50	LT	CTH D	250	---	
	2+72	-	3+31	LT	G MEADOW	---	75	SEE PAVING DETAIL
	2+99	-	3+31	RT	G MEADOW	---	50	SEE PAVING DETAIL
PROJECT 7823-07-72 TOTAL						950	125	
TOTAL						950	125	

MAINTENANCE AND REPAIR OF HAUL ROADS

PROJECT ID	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH
7823-07-72	
	1
PROJECT 7823-07-72 TOTAL	1
TOTAL	1

GUARDRAIL

PROJECT ID	STATION	TO	STATION	OFFSET	LOCATION	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH	614.0400 ADJUSTING STEEL PLATE BEAM GUARD LF	614.0805 CRASH CUSHIONS PERM LOW MAINT EACH	614.0950 REPLACING GUARDRAIL POSTS AND BLOCKS EACH	614.2300 MGS GUARDRAIL 3 LF	614.2330 MGS GUARDRAIL 3K LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2350 MGS GUARDRAIL SHORT RADIUS LF	614.2630 MGS GUARDRAIL SHORT RADIUS TERMINAL EACH	SPV.0090.01 THRIE BEAM MGS SPECIAL LF	SPV.0090.02 RAILING STEEL TYPE W MODIFIED LF
7823-07-72																	
	50+80	-	55+15	RT	CTH D	---	---	---	---	350	---	---	1	---	---	---	---
	55+46	-	59+30	RT	CTH D	---	---	---	---	362	---	---	1	---	---	---	---
	2+25 'GM'	-	3+31 'GM'	LT	G MEADOW	---	---	---	---	28	---	---	---	75	1	---	---
	2+81 'GM'	-	2+93 'GM'	RT	G MEADOW	---	12	---	---	---	---	---	---	---	---	---	---
	2+87 'GM'	-	2+87 'GM'	RT	G MEADOW	---	---	---	1	---	---	---	---	---	---		---
	96+43	-	97+58	RT	CTH D	1	---	---	---	25	---	39	1	---	---	---	---
	98+38	-	99+44	LT	CTH D	1	---	---	---	12	---	39	1	---	---	---	---
	98+08	-	98+39	RT	CTH D	1	---	1	---	---	---	---	---	---	---	12.5	---
	97+56	-	97+88	LT	CTH D	1	---	1	---	---	---	---	---	---	---	12.5	---
	97+58	-	98+38	RT&LT	CTH D	---	---	---	---	---	---	---	---	---	---	---	100
	107+53	-	115+28	LT	CTH D	---	---	---	---	625	---	---	2	---	---	---	---
	108+53	-	110+03	LT	CTH D	---	---	---	---	---	150	---	---	---	---	---	---
	150+46	-	152+44	RT	CTH D	---	---	---	---	200	---	---	2	---	---	---	---
PROJECT 7823-07-72 TOTAL						4	12	2	1	1602	150	78	8	75	1	25	100
TOTAL						4	12	2	1	1602	150	78	8	75	1	25	100

MOBILIZATION

PROJECT ID	619.1000 MOBILIZATION EACH
7823-07-72	
	1
PROJECT 7823-07-72 TOTAL	1
TOTAL	1

BARRIER SYSTEM GRADING SHAPING FINISHING ITEM 614.0010

PROJECT ID	STATION LOCATION	*BORROW	*SALVAGED TOPSOIL	*FERTILIZER TYPE B	*SEEDING	*MULCHING	EACH
7823-07-72	(ANCHORAGE POST # 1)	CY	SY	CWT	LB	SY	EACH
	96+43.7, RT	5	75	0.05	2.0	75	1
	97+56.0, LT	2	15	0.01	0.4	---	1
	98+39.0, RT	2	15	0.01	0.4	---	1
	99+39.8, LT	10	75	0.05	2.0	75	1
PROJECT 7823-07-72 TOTAL		19	180	0	5	150	4
TOTAL		19	180	0	5	150	4

*OTHER QUANTITIES SHOWN ELSEWHERE

EROSION CONTROL ITEMS

PROJECT ID	STATION	TO	STATION	OFFSET	LOCATION	606.0100 RIPRAP LIGHT* CY	606.0200 RIPRAP MEDIUM CY	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
7823-07-72												
	34+25	-	37+00	LT&RT	CTH D	---	---	132	132	260	---	---
	40+60	-	42+80	LT	CTH D	---	---	---	---	---	220	440
	49+50	-	55+00	RT	CTH D	---	3	310	310	100	500	1,000
	50+00	-	52+25	LT	CTH D	---	---	---	---	---	225	450
	52+50	-	60+50	LT	CTH D	---	---	766	766	582	800	1,600
	55+80	-	60+50	RT	CTH D	---	---	348	348	---	470	940
	2+25	-	3+31	LT	GREEN MEADOW RD	---	---	90	90	---	100	200
	71+50	-	72+25	RT	CTH D	---	---	---	---	---	75	150
	86+00	-	88+50	LT/RT	CTH D	---	---	133	133	266	---	---
	89+00	-	92+50	RT	CTH D	178	---	---	---	---	---	---
	97+56	-	98+39	LT/RT	CTH D	---	---	---	---	---	---	---
	106+00	-	108+00	LT	CTH D	---	---	141	141	282	200	400
	115+31	-	116+25	LT	CTH D	---	---	75	75	150	125	250
	148+50	-	154+50	RT	CTH D	---	---	346	346	150	500	1,000
	11+50	-	155+00	LT&RT	UNDISTRIBUTED	---	---	250	---	250	---	---
PROJECT 7823-07-72 TOTAL						178	3	2,591	2,341	2,040	3,215	6,430
TOTAL						178	3	2,591	2,341	2,040	3,215	6,430

EROSION CONTROL ITEMS

PROJECT ID	STATION	TO	STATION	OFFSET	LOCATION	628.2006 EROSION MAT CLASS I TYPE A SY	628.2008 EROSION MAT CLASS I TYPE B SY	628.2027 EROSION MAT CLASS II TYPE C SY	628.7504 TEMPORARY DITCH CHECKS LF	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0130 SEEDING MIXTURE NO. 30 LB	630.0500 SEED WATER MGAL	645.0130 GEOTEXTILE FABRIC TYPE R* SY
7823-07-72														
	34+25	-	37+00	LT&RT	CTH D	---	---	---	---	0.2	---	7.0	6	---
	40+60	-	42+80	LT	CTH D	---	---	---	---	---	---	---	---	---
	49+50	-	55+00	RT	CTH D	---	620	---	---	0.4	16.7	---	14	7
	50+00	-	52+25	LT	CTH D	---	---	---	---	---	---	---	---	---
	52+50	-	60+50	LT	CTH D	500	660	---	16	1.0	13.8	18.5	34	---
	55+80	-	60+50	RT	CTH D	---	---	440	---	0.4	18.8	---	16	---
	2+25	-	3+31	LT	GREEN MEADOW RD	---	180	---	---	0.1	4.9	---	4	---
	71+50	-	72+25	RT	CTH D	---	---	---	---	---	---	---	---	---
	86+00	-	88+50	LT/RT	CTH D	---	---	---	---	0.2	---	4.8	6	---
	89+00	-	92+50	RT	CTH D	---	---	---	---	---	---	---	---	355
	97+56	-	98+39	LT/RT	CTH D	---	40	---	---	---	---	---	---	---
	106+00	-	108+00	LT	CTH D	---	---	---	---	0.2	---	5.0	6	---
	115+31	-	116+25	LT	CTH D	---	---	---	---	0.1	9.3	2.7	3	---
	148+50	-	154+50	RT	CTH D	---	---	542	---	0.4	---	12.4	16	---
	11+50	-	155+00	LT&RT	UNDISTRIBUTED	---	---	---	---	0.7	15.0	12.0	---	---
PROJECT 7823-07-72 TOTAL						500	1,500	982	16	3.6	78.5	62.4	105	362
TOTAL						500	1,500	982	16	4	79	62	105	362

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PERMANENT SIGNING ITEMS

PROJECT ID	SIGN GROUP NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIZE	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0812 POSTS TUBULAR 2X2-INCH X 12-FT EACH
7823-07-72												
	9	4+25	LT	R8-8	DO NOT STOP ON TRACKS	24" X 30"	5.00	---	---	1	---	---
	10	3+80	RT	R8-8	DO NOT STOP ON TRACKS	24" X 30"	5.00	---	---	1	---	---
	11	---	---	---	---	---	---	---	---	1	---	---
	12	22+52	LT	R2-1	SPEED LIMIT 30	24" X 30"	5.00	---	---	---	1	---
	13	---	---	---	---	---	---	---	---	1	---	---
	14	21+16	RT	W11-6	SNOWMOBILE CROSSING	30" X 30"	---	6.25	---	1	---	---
	15	22+70	RT	R2-1	SPEED LIMIT 55	24" X 30"	5.00	---	---	1	---	---
	16	25+44	LT	W3-5	SPEED REDUCTION AHEAD 30 MPH SYMBOL	36" X 36"	---	9.00	---	1	---	---
	17	30+13	LT	W14-3	NO PASSING ZONE	48" X 36"	---	5.56	---	1	---	---
	18	39+71	LT	W11-6	SNOWMOBILE CROSSING	30" X 30"	---	6.25	---	1	---	---
	19	43+88	RT	W1-2L	ROAD CURVES LEFT	36" X 36"	---	9.00	---	---	1	---
	20	43+88	RT	W13-1	35 MPH	18" X 18"	---	2.25	---	---	---	---
	21	47+49	RT	W2-2	SIDE ROAD (RIGHT ANGLE) SYMBOL	30" X 30"	---	6.25	---	1	---	---
	22	51+80	RT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	2	---	---	---
	23	52+95	RT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	2	---	---	---
	24	53+80	RT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	2	---	---	---
	25	54+60	RT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	2	---	---	---
	26	55+56	RT	R1-1	STOP	30" X 30"	5.18	---	---	---	---	---
	27	---	---	---	---	---	---	---	---	---	---	---
	28	55+70	RT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	2	---	---	---
	29	56+85	RT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	2	---	---	---
	30	57+95	RT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	2	---	---	---
	31	63+45	LT	W1-2R	ROAD CURVES RIGHT	36" X 36"	---	9.00	---	---	1	---
	32	63+45	LT	W13-1	35 MPH	18" X 18"	---	2.25	---	---	---	---
	33	58+75	RT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	2	---	---	---
	34	66+30	LT	W2-2	SIDE ROAD (RIGHT ANGLE) SYMBOL	30" X 30"	---	6.25	---	1	---	---
	35	67+47	RT	W14-3	NO PASSING ZONE	48" X 36"	---	5.56	---	1	---	---
	36	74+24	RT	W2-8	TWO SIDE ROADS (RIGHT ANGLE) SYMBOL	30" X 30"	---	6.25	---	1	---	---
	37	79+25	LT	W14-3	NO PASSING ZONE	48" X 36"	---	5.56	---	1	---	---
	38	81+51	LT	R1-1	STOP	30" X 30"	---	---	---	1	---	---
	39	79+71	RT	W1-2R	ROAD CURVES RIGHT	36" X 36"	---	9.00	---	1	---	---
	40	79+71	RT	W13-1	40 MPH	18" X 18"	---	2.25	---	---	---	---
	41	86+39	LT	R1-1	STOP	30" X 30"	---	---	---	1	---	---
	42	91+51	LT	W1-6	ONE-DIRECTION LARGE ARROW	48" X 24"	---	8.00	---	---	1	---
	43	92+13	LT	W1-6	ONE-DIRECTION LARGE ARROW	48" X 24"	---	8.00	---	---	1	---

PERMANENT SIGNING ITEMS

PROJECT ID	SIGN GROUP NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIZE	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0812 POSTS TUBULAR 2X2-INCH X 12-FT EACH
7823-07-72												
	44	92+78	LT	W2-8	TWO SIDE ROADS (RIGHT ANGLE) SYMBOL	30" X 30"	---	6.25	---	1	---	---
	45	89+33	RT	S3-1	SCHOOL BUS STOP AHEAD	30" X 30"	---	6.25	---	1	---	---
	46	97+88	LT	W05-52L	BRIDGE HASH MARKS	12" X 36"	---	3.00	---	---	---	1
	47	98+42	LT	W05-52R	BRIDGE HASH MARKS	12" X 36"	---	3.00	---	---	---	1
	48	97+36	RT	W14-3	NO PASSING ZONE	48" X 36"	---	5.56	---	1	---	---
	49	97+52	RT	W05-52R	BRIDGE HASH MARKS	12" X 36"	---	3.00	---	---	---	1
	50	98+11	RT	W05-52L	BRIDGE HASH MARKS	12" X 36"	---	3.00	---	---	---	1
	51	100+03	LT	W1-2L	ROAD CURVES LEFT	36" X 36"	---	9.00	---	---	1	---
	52	100+03	LT	W13-1	40 MPH	18" X 18"	---	2.25	---	---	---	---
	53	117+14	LT	W14-3	NO PASSING ZONE	48" X 36"	---	5.56	---	1	---	---
	54	---	---	---	---	---	---	---	---	---	---	---
	55	126+83	LT	W05-52L	BRIDGE HASH MARKS	12" X 36"	---	3.00	---	---	---	1
	56	121+85	RT	W1-2R	ROAD CURVES RIGHT	36" X 36"	---	9.00	---	1	---	---
	57	121+85	RT	W13-1	35 MPH	18" X 18"	---	2.25	---	---	---	---
	58	126+83	RT	W05-52R	BRIDGE HASH MARKS	12" X 36"	---	3.00	---	---	---	1
	59	129+49	LT	W05-52R	BRIDGE HASH MARKS	12" X 36"	---	3.00	---	---	---	1
	60	131+64	LT	R1-1	STOP	30" X 30"	---	---	---	---	1	---
	61	129+47	RT	W05-52L	BRIDGE HASH MARKS	12" X 36"	---	3.00	---	---	---	1
	62	---	---	---	---	---	---	---	---	1	---	---
	63	131+75	RT	W1-7	TWO-DIRECTION LARGE ARROW	48" X 24"	---	8.00	---	1	---	---
	64	134+65	LT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	---	2		---
	65	135+80	LT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	---	---	2	---
	66	136+50	LT	W1-6	ONE-DIRECTION LARGE ARROW	48" X 24"	---	8.00	---	1	---	---
	67	136+62	LT	W2-2	SIDE ROAD (RIGHT ANGLE) SYMBOL	30" X 30"	---	6.25	---	1	---	---
	68	137+00	LT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	---	---	2	---
	69	138+15	LT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	---	2	---	---
	70	139+35	LT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	---	2	---	---
	71	140+50	LT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	---	2	---	---
	72	140+74	LT	W1-6	ONE-DIRECTION LARGE ARROW	48" X 24"	---	8.00	---	1	---	---
	73	141+40	LT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	---	2	---	---
	74	142+40	LT	W1-8	CHEVRON (2)	18" X 24"	---	6.00	---	2	---	---
	75	146+27	LT	W1-2L	ROAD CURVES LEFT	36" X 36"	---	9.00	---	1	---	---
	76	146+27	LT	W13-1	35 MPH	18" X 18"	---	2.25	---	---	---	---
	77	149+37	RT	J1-1	JCT; COUNTY N	24"X39"	6.50	---	---	1	---	---
	78	154+19	LT	R1-1	STOP	30" X 30"	5.18	---	---	1	---	---

PERMANENT SIGNING ITEMS

PROJECT ID	SIGN GROUP NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIZE	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0812 POSTS TUBULAR 2X2-INCH X 12-FT EACH
7823-07-72												
	79	153+59	LT	R1-51	RIGHT TURN NO STOP	30" X 18"	3.75	---	---	---	---	---
	80	154+19	LT	M1-5A	CTH D	24" X 24"	4.00	---	---	1	---	---
	81	154+45	LT	J2-2	COUNTY D; DOUBLE ARROW; END; COUNTY N	48"X57"	19.00	---	---	---	1	---
	82	154+45	LT	R1-1	STOP	30" X 30"	5.18	---	---	1	---	---
	83	152+73	RT	J12-2	COUNTY N; ARROW; COUNTY D; ARROW	48"X45"	15.00	---	---	1	---	---
	84	153+79	RT	J12-2	COUNTY N; ARROW; COUNTY D; ARROW	48"X45"	15.00	---	---	---	1	---
	85	153+79	RT	W1-7	TWO-DIRECTION LARGE ARROW	48" X 24"	---	8.00	---	---	---	---
PROJECT 7823-07-72 TOTAL							99	322	16	45	13	8
TOTAL							99	322	16	45	13	8

REMOVING SIGNING ITEMS

PROJECT ID	SIGN GROUP NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIZE	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
7823-07-72									
	11	14+17	LT		CAUTION CHILDREN AT PLAY		1	---	---
	12	22+52	LT	R2-1	SPEED LIMIT 30	24" X 30"	---	1	1
	13	22+52	LT		FALL CREEK VILLAGE LIMITS		1	---	---
	14	21+16	RT	W11-6	SNOWMOBILE CROSSING	30" X 30"	---	1	1
	15	22+70	RT	R2-1	SPEED LIMIT 55	24" X 30"	---	1	1
	16-1	25+44	LT		REDUCED SPEED AHEAD		---	1	1
	16-2	25+44	LT	W13-1	30 MPH	18" X 18"	---	1	---
	17	30+13	LT	W14-3	NO PASSING ZONE	48" X 36"	---	1	1
	18	39+71	LT	W11-6	SNOWMOBILE CROSSING	30" X 30"	---	1	1
	19	43+88	RT	W1-2L	ROAD CURVES LEFT	36" X 36"	---	1	1
	20	43+88	RT	W13-1	35 MPH	18" X 18"	---	1	---
	21	47+49	RT	W2-2	SIDE ROAD (RIGHT ANGLE) SYMBOL	30" X 30"	---	1	1
	26	55+56	RT	R1-1	STOP	30"X 30"	---	1	1
	27-1	55+60	RT		COUNTY D		1	---	---
	27-2	55+60	RT		GREEN MEADOW RD		---	---	---
	31	63+45	LT	W1-2R	ROAD CURVES RIGHT	36" X 36"	---	1	1
	32	63+45	LT	W13-1	35 MPH	18" X 18"	---	1	---
	34	66+30	LT	W2-2	SIDE ROAD (RIGHT ANGLE) SYMBOL	30" X 30"	---	1	1
	35	67+47	RT	W14-3	NO PASSING ZONE	48" X 36"	---	1	1
	36	74+24	RT	W2-8	TWO SIDE ROADS (RIGHT ANGLE) SYMBOL	30" X 30"	---	1	1
	37	79+25	LT	W14-3	NO PASSING ZONE	48" X 36"	---	1	1
	38	81+51	LT	R1-1	STOP	30" X 30"	1	---	1
	39	79+71	RT	W1-2R	ROAD CURVES RIGHT	36" X 36"	---	1	1
	40	79+71	RT	W13-1	40 MPH	18" X 18"	---	1	---
	41	86+39	LT	R1-1	STOP	30" X 30"	1	---	1
	42	91+51	LT	W1-6	ONE-DIRECTION LARGE ARROW	48" X 24"	---	1	1
	43	92+13	LT	W1-6	ONE-DIRECTION LARGE ARROW	48" X 24"	---	1	1
	44	92+78	LT	W2-8	TWO SIDE ROADS (RIGHT ANGLE) SYMBOL	30" X 30"	---	1	1
	45	89+33	RT	S3-1	SCHOOL BUS STOP AHEAD	30" X 30"	---	1	1
	46	97+88	LT	W05-52L	BRIDGE HASH MARKS	12" X 36"	---	1	1
	47	98+42	LT	W05-52R	BRIDGE HASH MARKS	12" X 36"	---	1	1
	48	97+36	RT	W14-3	NO PASSING ZONE	48" X 36"	---	1	1
	49	97+52	RT	W05-52R	BRIDGE HASH MARKS	12" X 36"	---	1	1
	50	98+11	RT	W05-52L	BRIDGE HASH MARKS	12" X 36"	---	1	1
	51	100+03	LT	W1-2L	ROAD CURVES LEFT	36" X 36"	---	1	1
	52	100+03	LT	W13-1	40 MPH	18" X 18"	---	1	---
	53	117+14	LT	W14-3	NO PASSING ZONE	48" X 36"	---	1	1
	54	123+93	LT		ADOPT-A-HIGHWAY		1	---	---

3

REMOVING SIGNING ITEMS

PROJECT ID	SIGN GROUP NO.	STATION	LOCATION	SIGN CODE	SIGN MESSAGE	SIZE	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
7823-07-72									
	55	126+83	LT	W05-52L	BRIDGE HASH MARKS	12" X 36"	---	1	1
	56	121+85	RT	W1-2R	ROAD CURVES RIGHT	36" X 36"	---	1	1
	57	121+85	RT	W13-1	35 MPH	18" X 18"	---	1	---
	58	126+83	RT	W05-52R	BRIDGE HASH MARKS	12" X 36"	---	1	1
	59	129+49	LT	W05-52R	BRIDGE HASH MARKS	12" X 36"	---	1	1
	60	131+64	LT	R1-1	STOP	30" X 30"	1	---	1
	61	129+47	RT	W05-52L	BRIDGE HASH MARKS	12" X 36"	---	1	1
	62	130+89	RT		TOWN SIGN		1	---	---
	63	131+75	RT	W1-7	TWO-DIRECTION LARGE ARROW	48" X 24"	---	1	1
	66	136+50	LT	W1-6	ONE-DIRECTION LARGE ARROW	48" X 24"	---	1	1
	67	136+62	LT	W2-2	SIDE ROAD (RIGHT ANGLE) SYMBOL	30" X 30"	---	1	1
	72	140+74	LT	W1-6	ONE-DIRECTION LARGE ARROW	48" X 24"	---	1	1
	75	146+27	LT	W1-2L	ROAD CURVES LEFT	36" X 36"	---	1	1
	76	146+27	LT	W13-1	35 MPH	18" X 18"	---	1	---
	77-1	149+37	RT	M2-1	JCT	21" X 15"	---	1	1
	77-2	149+37	RT	M1-5A	CTH N	24" X 24"	---	1	---
	78	153+59	LT	R1-1	STOP	30" X 30"	---	1	1
	79	153+59	LT	R1-51	RIGHT TURN NO STOP	30" X 18"	---	1	---
	80	154+19	LT	M1-5A	CTH D	24" X 24"	---	1	1
	81-1	154+45	LT	M1-5A	CTH D	24" X 24"	---	1	1
	81-2	154+45	LT	M6-4	DOUBLE DIRECTIONAL ARROWS	21" X 21"	---	1	---
	81-3	154+45	LT	M4-6	END	24" X 12"	---	1	---
	81-4	154+45	LT	M1-5A	CTH N	24" X 24"	---	1	---
	82	154+45	LT	R1-1	STOP	30" X 30"	---	1	1
	83-1	152+73	RT	M1-5A	CTH N	24" X 24"	---	1	1
	83-2	152+73	RT	M6-1	DIRECTIONAL ARROW	21" X 21"	---	1	---
	83-3	152+73	RT	M1-5A	CTH D	24" X 24"	---	1	---
	83-4	152+73	RT	M6-1	DIRECTIONAL ARROW	21" X 21"	---	1	---
	84-1	153+79	RT	M1-5A	CTH N	24" X 24"	---	1	1
	84-2	153+79	RT	M6-1	DIRECTIONAL ARROW	21" X 21"	---	1	---
	84-3	153+79	RT	M1-5A	CTH D	24" X 24"	---	1	---
	84-4	153+79	RT	M6-1	DIRECTIONAL ARROW	21" X 21"	---	1	---
	85	153+79	RT	W1-7	TWO-DIRECTION LARGE ARROW	48" X 24"	---	1	---
	86	154+65	RT		ADOPT-A-HIGHWAY		1		
PROJECT 7823-07-72 TOTAL							9	62	46
						TOTALS	9	62	46

TRAFFIC CONTROL

PROJECT ID	ROADWAY	LOCATION	USAGE	DURATION DAYS	643.0300 DRUMS DAYS	643.1070 CONES DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0900 SIGNS DAYS	REFERENCE
7823-07-72										
	CTH D	PROJECT 7823-07-72	ADVANCED WARNING	50	--	--	--	--	1,000	PROJECT-WIDE
	CTH D	PROJECT 7823-07-72	PULVERIZE & RELAY, MILL, HMA PAVING	18	--	--	--	--	378	
	CTH D	STA 34+25 - STA 88+50	CTH D CURB & GUTTER	4	496	--	--	--	40	
	CTH D	STA 52+35 - STA 53+30	CTH D CULVERTS	2	--	--	--	--	12	
	CTH D / GR. MEADOW	STA 49+50 - STA 60+50	TURN LANE, INTERSECTION, DITCHING	5	320	--	45	55	50	
	CTH D	STA 85+75 - STA 93+25	CTH D PROFILE CORRECTION	4	--	420	--	--	48	
	CTH D	STA 95+00 - STA 101+00	B-18-945 GUARD RAIL & CRASH CUSHIONS	8	400	--	--	--	64	
	CTH D	STA 106+00 - STA 117+00	CTH D GUARD RAIL	5	310	--	--	--	40	
	CTH D	STA 130+25 - STA 131+75	CTH D RECONSTRUCTION	2	6	18	6	8	22	
	CTH D	STA 148+50 - STA 154+00	CTH D WIDENING, GUARD RAIL	4	256	--	--	--	40	
PROJECT 7823-07-72 TOTAL					1,788	438	51	63	1,694	
TOTAL					1,788	438	51	63	1,694	

LOCATING NO-PASSING ZONES

PROJECT ID	STATION	TO	STATION	LOCATION	648.0100 LOCATING NO-PASSING ZONES MI
7823-07-72					
	11+50.00	-	154+50.00	CTH D	2.7
PROJECT 7823-07-72 TOTAL					2.7
TOTAL					2.7

CONSTRUCTION STAKING

PROJECT ID	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
7823-07-72											
	11+50	-	154+81	CTH D	---	---	---	---	14331	1	---
	34+25	-	37+00	CTH D	---	---	450	---	---	---	---
	50+00	-	61+00	CTH D	1,100	1,100	---	2	---	---	1,100
	2+25	-	3+31	G MEADOW, LT & RT	100	100	75	1	---	---	100
	2+99	-	3+31	G MEADOW, RT	---	---	50	---	---	---	---
	83+00	-	93+50	CTH D	300	1,050	300	---	---	---	300
	106+50	-	107+50	CTH D, LT	100	100	---	1	---	---	100
	115+50	-	116+50	CTH D, LT	100	100	---	---	---	---	100
	130+25	-	131+75	CTH D	150	150	---	---	---	---	150
	148+50	-	154+50	CTH D	600	600	---	---	---	---	600
PROJECT 7823-07-72 TOTAL					2,450	3,200	875	4	14,331	1	2,450
TOTAL					2,450	3,200	875	4	14,331	1	2,450

3

PAVEMENT MARKING ITEMS

					646.1020				646.3020		
					MARKING LINE						
					EPOXY				EPOXY		
					4-INCH				8-INCH		
					12.5 FT SKIP			3 FT SKIP		3 FT SKIP	
					37.5 FT GAP			9 FT GAP		9 FT GAP	
					YELLOW	YELLOW	WHITE	WHITE	WHITE	WHITE	
PROJECT ID	STATION	TO	STATION	LOCATION	LF	LF	LF	LF	LF	LF	REMARKS
7823-07-72											
	13+79	-	153+80	CTH D	---	---	13684	---	---	---	LT EDGE LINE
	13+79	-	154+50	CTH D	---	---	14028	---	---	---	RT EDGE LINE
	11+50	-	15+15	CTH D	730	---	---	---	---	---	CL NP : NP
	15+15	-	19+28	CTH D	413	113	---	---	---	---	CL NP : SD
	19+28	-	29+95	CTH D	---	275	---	---	---	---	CL SD
	29+95	-	36+78	CTH D	683	175	---	---	---	---	CL SD : NP
	36+78	-	58+53	CTH D	4350	---	---	---	---	---	CL NP : NP
	51+75	-	55+70	CTH D	---	---	---	21	200	30	RT TURN LANE
	58+53	-	67+57	CTH D	904	225	---	---	---	---	CL NP : SD
	67+57	-	79+10	CTH D	---	288	---	---	---	---	CL SD
	79+10	-	86+00	CTH D	690	175	---	---	---	---	CL SD : NP
	86+00	-	91+90	CTH D	1180	---	---	---	---	---	CL NP : NP
	91+90	-	97+48	CTH D	558	138	---	---	---	---	CL NP : SD
	97+48	-	116+62	CTH D	---	488	---	---	---	---	CL SD
	116+62	-	121+58	CTH D	496	125	---	---	---	---	CL SD : NP
	121+58	-	154+50	CTH D	6,584	---	---	---	---	---	CL NP : NP
	153+80	-	155+00	CTH N	0	25	164	---	---	---	CL NP : SD
	153+80	-	154+81	CTH D	100	25	80	---	---	---	CL NP : SD
SUBTOTAL					16,688	2,052	27,956	21	200	30	
PROJECT 7823-07-72 TOTAL							46,696			230	
TOTAL							46,696			230	

FIELD ENTRANCE

			CAT 0020 SPV.0060.03 FIELD ENTRANCE	
PROJECT ID	STATION	LOCATION	EACH	REMARKS
7823-07-72				
	44+85	CTH D, LT	1	24' WIDTH
	48+55	CTH D, LT	1	24' WIDTH
	48+55	CTH D, RT	1	24' WIDTH
	57+81	CTH D, LT	1	24' WIDTH
	64+60	CTH D, LT	1	24' WIDTH
	66+20	CTH D, RT	1	24' WIDTH
PROJECT 7823-07-72 TOTAL			6	

SEWER AND WATER ITEMS

			CAT 0020 SPV.0060.01 ADJ SANITARY MANHOLE COVER	CAT 0020 SPV.0060.02 ADJ VALVE STAND COVER	
PROJECT ID	STATION	LOCATION	EACH	EACH	REMARKS
7823-07-72					
	14+50	CTH D, RT	1		RT LANE
	15+65	CTH D, RT		1	RT LANE
	15+95	CTH D, LT		1	BRICKYARD
	16+00	CTH D, LT		1	BRICKYARD
PROJECT 7823-07-72 TOTAL			1	3	
TOTAL			1	3	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
7823-07-02
FALL CREEK - NCL
BOARDWALK STREET TO CTH N
CTH D
EAU CLAIRE COUNTY



CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25
UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

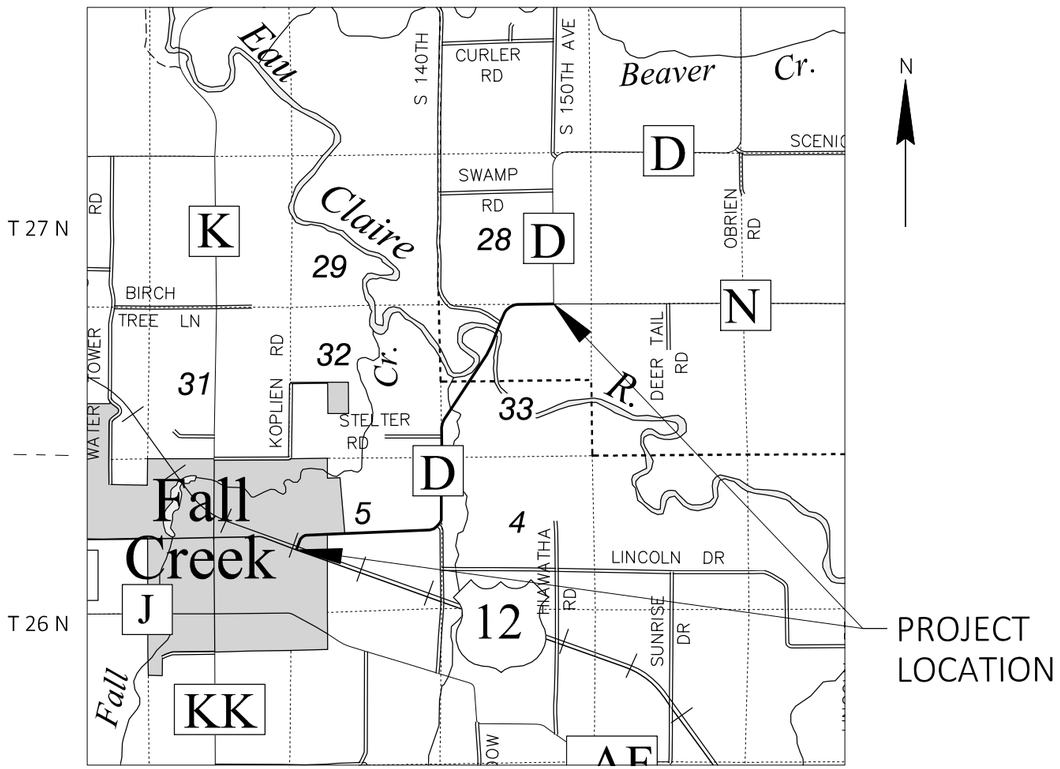
ACCESS RIGHTS	AR
ACRES	AC
AHEAD	AH
ALUMINUM	ALUM
AND OTHERS	ET AL
BACK	BK
BLOCK	BLK
BUILDING	B
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
CONCRETE	CONC
COUNTY	CO
COUNTY TRUNK HIGHWAY	CTH
DISTANCE	DIST
CORNER	COR
DOCUMENT NUMBER	DOC
EASEMENT	EASE
EXISTING	EX
FRACTIONAL	FRAC
GAS VALVE	GV
GRID NORTH	GN
HIGHWAY EASEMENT	HE
IDENTIFICATION	ID
LAND CONTRACT	LC
LEFT	LT
MONUMENT	MON
NATIONAL GEODETIC SURVEY	NGS
NUMBER	NO
OUTLOT	OL
PAGE	P
POINT OF TANGENCY	PT
PERMANENT LIMITED EASEMENT	PLE
POINT OF BEGINNING	POB
POINT OF CURVATURE	PC
POINT OF COMPOUND CURVE	PCC
POINT OF INTERSECTION	PI
PROPERTY LINE	PL
RECORDED AS	(100')
REEL / IMAGE	R/I
REFERENCE LINE	R/L
REMAINING	REM
RESTICTIVE DEVELOPMENT EASEMENT	RDE
RIGHT	RT
RIGHT OF WAY	R/W
SECTION	SEC
SEPTIC VENT	SEPV
SQUARE FEET	SF
STATE TRUNK HIGHWAY	STH
STATION	STA
TELEPHONE PEDESTAL	TP
TEMPORARY LIMITED EASEMENT	TLE
TRANSPORTATION PROJECT PLAT	TPP
UNITED STATES HIGHWAY	USH
VOLUME	V

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS



LAYOUT
SCALE 0 1 MILE

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 7823-07-72.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), EAU CLAIRE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. NGS POINT UTILIZED WAS LINCOLN NW GPS DK5048.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

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.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, 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 DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF EAU CLAIRE COUNTY.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE TPP DETAIL PAGES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7823-07-02-4.01
SHEET 2 OF 2

FILE NAME : P:\EAUCO\19001 CTH D PAVEMENT REPLACEMENT\RIGHT OF WAY\CAD\040101-RP.DWG
PLOT DATE : 7/2/2020 11:30 AM
APPRAISAL PLAT DATE : 7/1/20
7823-07-02

TRANSPORTATION PROJECT PLAT NO: 7823-07-02-4.01

THAT PART OF THE SE 1/4 OF THE NE 1/4, AND PART OF THE NE 1/4 OF THE SE 1/4, SECTION 5, AND PART OF THE SW 1/4 OF THE NW 1/4, SECTION 4, TOWNSHIP 26 NORTH, RANGE 7 WEST, TOWN OF LINCOLN, EAU CLAIRE COUNTY, WISCONSIN.

RELOCATION ORDER OF CTH D FALL CREEK - NCL, BOARDWALK STREET TO CTH N, EAU CLAIRE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 83.07 AND 83.08, WISCONSIN STATUTES, THE COUNTY 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 COUNTY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 83.07 AND 83.08, WISCONSIN STATUTES.

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
22607052000	300	S 87° 44' 00" W	611.06'
300	100	N 02° 33' 07" W	32.83'
100	101	N 87° 26' 53" E	134.61'
102	103	N 45° 13' 15" E	50.51'
104	105	S 57° 03' 42" E	10.00'
106	107	N 00° 41' 23" E	49.67'
107	108	N 14° 11' 08" E	51.42'
108	301	S 89° 18' 37" E	33.00'
301	302	N 00° 41' 23" E	25.00'
302	203	S 89° 18' 37" E	33.00'
203	109	S 00° 41' 23" W	124.67'
110	111	S 01° 55' 09" W	142.59'
112	303	S 22° 05' 03" W	34.90'
304	113	S 58° 58' 50" W	33.00'
113	114	N 78° 48' 49" W	96.05'
116	117	S 87° 26' 53" W	84.61'
117	118	N 79° 03' 22" W	51.42'
118	300	N 02° 33' 07" W	33.17'

COURSE TABLE - SEGMENTS			
FROM	TO	DIRECTION	DISTANCE
118	305	N 02° 33' 07" W	33.00'
305	300	N 02° 33' 07" W	0.17'

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	
113	2+25.00'GM'	33.00'	LT
114	54+50.00	45.00'	RT
303	2+76.64'GM'	0.00'	
304	2+25.00'GM'	0.00'	
112	2+88.01'GM'	33.00'	RT
301	59+75.00	0.00'	
302	60+00.00	0.00'	
313	50+33.87	0.00'	

CURVE 101-102
L= 107.61'
LCH= 107.36'
LCB= N80°41'25"E
R= 456.18'

CURVE 103-104
L= 266.27'
LCH= 262.12'
LCB= N50°30'26"E
R= 434.18'

CURVE 105-106
L= 250.00'
LCH= 246.72'
LCB= N16°48'51"E
R= 444.18'

CURVE 109-110
L= 80.41'
LCH= 80.33'
LCB= S05°06'05"W
R= 522.18'

CURVE 111-112
L= 132.39'
LCH= 132.08'
LCB= S30°56'10"W
R= 559.18'

CURVE 303-304
L= 51.64'
LCH= 51.43'
LCB= S39°57'55"E
R= 165.37'

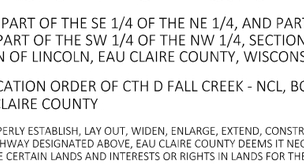
CURVE 114-116
L= 344.41'
LCH= 338.47'
LCB= S68°58'40"W
R= 534.18'

CURVE 114-115
L= 127.47'
LCH= 127.17'
LCB= S57°20'37"W
R= 534.18'

CURVE 115-116
L= 216.93'
LCH= 215.45'
LCB= S75°48'50"W
R= 534.18'

PI = 55+96.86
Y = 261417.271
X = 404970.542
Δ = 86°45'30" LT
D = 11°42'46"
T = 462.26'
L = 740.72'
R = 489.18'
PC = 51+34.61
PT = 58+75.33

PI = 2+10.73'GM'
Y = 261461.566
X = 404972.791
Δ = 48°51'54" LT
D = 34°38'46"
T = 75.13'
L = 141.04'
R = 165.37'
PC = 1+35.60'GM'
PT = 2+76.64'GM'



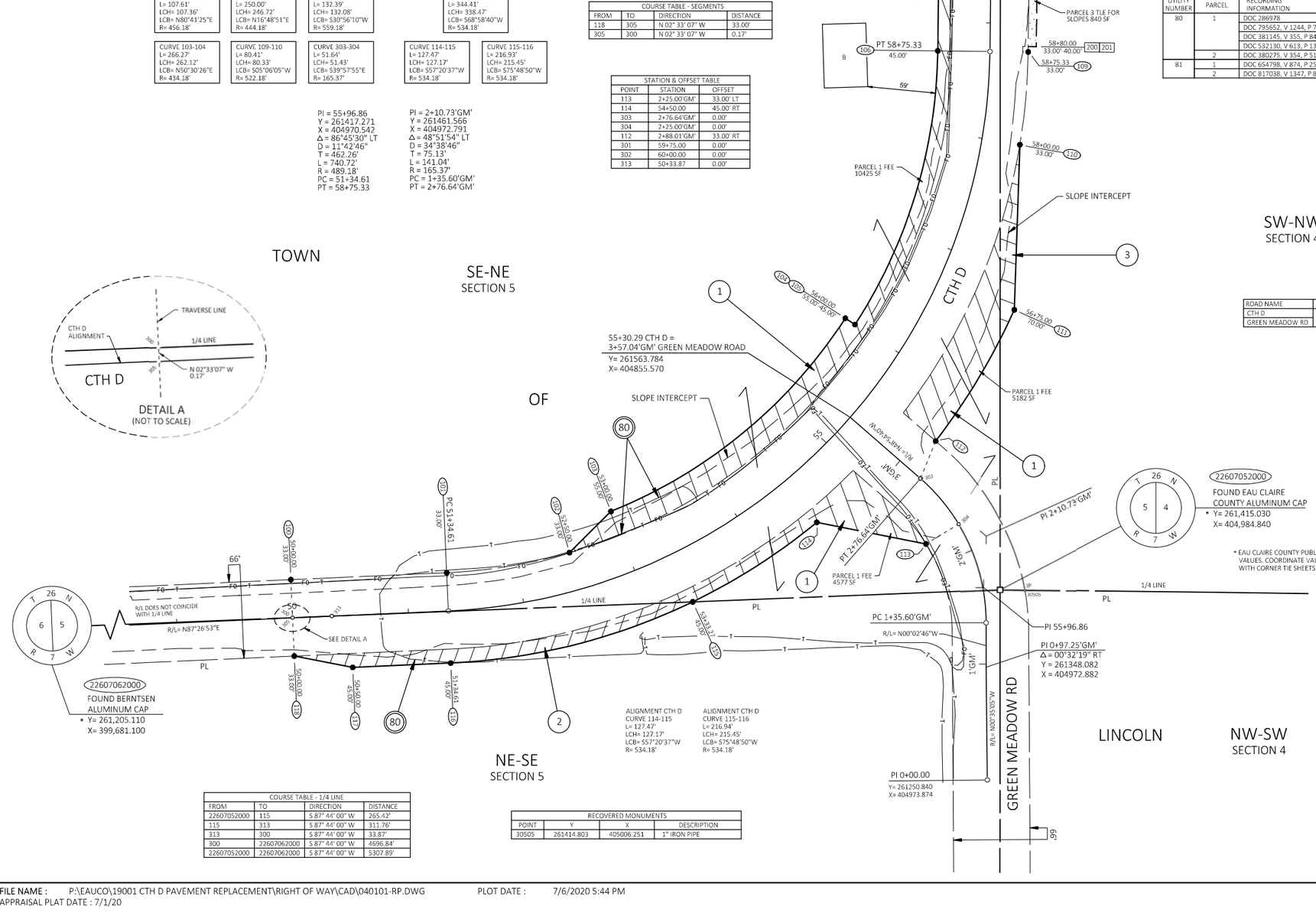
TOWN OF LINCOLN

SE-NE SECTION 5

NW-SW SECTION 4

NE-SE SECTION 5

SW-NW SECTION 4



ALIGNMENT CTH D
CURVE 114-115
L= 127.47'
LCH= 127.17'
LCB= S57°20'37"W
R= 534.18'

ALIGNMENT CTH D
CURVE 115-116
L= 216.94'
LCH= 215.45'
LCB= S75°48'50"W
R= 534.18'

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
30505	261414.803	405006.251	1" IRON PIPE

COURSE TABLE - 1/4 LINE			
FROM	TO	DIRECTION	DISTANCE
22607052000	115	S 87° 44' 00" W	265.42'
115	313	S 87° 44' 00" W	311.76'
313	300	S 87° 44' 00" W	33.87'
300	22607062000	S 87° 44' 00" W	4696.84'
22607062000	22607052000	S 87° 44' 00" W	5307.89'

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE COUNTY.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQUARE FEET
			NEW	EXISTING	TOTAL	
1	LARRY KRAUSE	FEE	20232	55900	76132	-
2	THOMAS BAUER	FEE	3717	8290	12007	-
3	DEAN A & COLETTE S CLINE TRUST	FEE, TLE	1578	5471	7049	840

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
80	CENTURYLINK	RELEASE OF RIGHTS
81	EAU CLAIRE ELECTRIC COOPERATIVE	RELEASE OF RIGHTS

UTILITY EASEMENT TABLE			
UTILITY NUMBER	PARCEL	RECORDING INFORMATION	NAME
80	1	DOC 286978	WISCONSIN TELEPHONE COMPANY
		DOC 795652, V 1244, P 716	CENTURYTEL OF CENTRAL WISCONSIN, LLC
		DOC 381145, V 355, P 848	GENERAL TELEPHONE COMPANY OF WISCONSIN
		DOC 532130, V 613, P 135	
	2	DOC 380275, V 354, P 511	
81	1	DOC 654798, V 874, P 250	EAU CLAIRE ELECTRIC COOPERATIVE
	2	DOC 817038, V 1347, P 889	

ROAD NAME	BASIS OF EXISTING R/W	YEAR
CTH D	WI STATUTE 82.31 (2)	
GREEN MEADOW RD		

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN EAU CLAIRE COUNTY AS SHEET 2 OF 2.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), EAU CLAIRE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. NGS POINT UTILIZED WAS LINCOLN NW GPS DX5048.

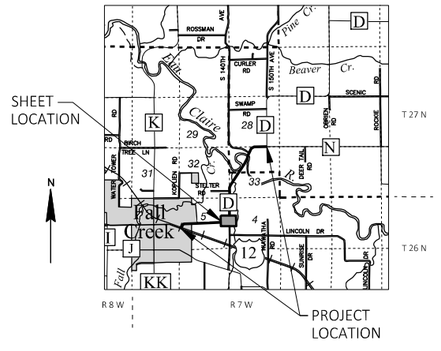
ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF EAU CLAIRE COUNTY.

N

SCALE, FEET
0 50 100

LOCATION SKETCH
NOT TO SCALE



RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7823-07-02-4.01
SHEET 1 OF 2

I, NEIL C. BOWE, 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 COUNTY, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Neil C. Bowe DATE: 7/1/20
PRINT NAME: NEIL C. BOWE
REGISTRATION NUMBER: S-2827

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR EAU CLAIRE COUNTY.

SIGNATURE: _____ DATE: 7/1/20
PRINT NAME: JON JOHNSON

WISCONSIN NEIL C. BOWE S-2827 CHIPPEWA FALLS WI LAND SURVEYOR

cbs2
770 TECHNOLOGY WAY
CHIPPEWA FALLS, WI 54729

FILE NAME : P:\EAUCO\19001 CTH D PAVEMENT REPLACEMENT\RIGHT OF WAY\CAD\040101-RP.DWG PLOT DATE : 7/6/2020 5:44 PM
APPRAISAL PLAT DATE : 7/1/20

WISDOT 7823-07-02-4.01

TRANSPORTATION PROJECT PLAT NO: 7823-07-02-4.02

THAT PART OF THE SW 1/4 OF THE NW 1/4, AND PART OF THE SE 1/4 OF THE NW 1/4, TOWN OF LUDINGTON, AND PART OF THE NW 1/4 OF THE SW 1/4, TOWN OF LINCOLN, ALL IN SECTION 33, TOWNSHIP 27 NORTH, RANGE 7 WEST, EAU CLAIRE COUNTY, WISCONSIN.

RELOCATION ORDER OF CTH D FALL CREEK - NCL, BOARDWALK STREET TO CTH N, EAU CLAIRE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 83.07 AND 83.08, WISCONSIN STATUTES, THE COUNTY 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 COUNTY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 83.07 AND 83.08, WISCONSIN STATUTES.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN EAU CLAIRE COUNTY AS SHEET 2 OF 2 OF 7823-07-02-4.01.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), EAU CLAIRE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. NGS POINT UTILIZED WAS LINCOLN NW GPS DK5048.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF EAU CLAIRE COUNTY.

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE COUNTY.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			TLE SQUARE FEET
			NEW	EXISTING	TOTAL	
4	JEDIDIAH STUTZMAN & WALTER STUTZMAN	TLE	-	17024	17024	2400
6	EAU CLAIRE COUNTY	FEE	2550	55567	58117	-

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7823-07-02-4.02
SHEET 1 OF 2

N

SCALE, FEET
0 50 100

22707322000
FOUND BERNTSEN ALUMINUM CAP
* Y= 266,567.170
X= 404,956.980

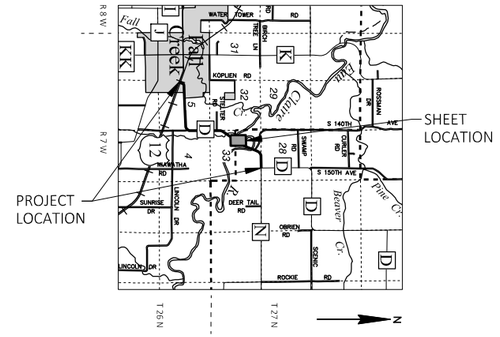
SECTION LINE

22707290000
FOUND BERNTSEN ALUMINUM CAP
* Y= 269,188.260
X= 404,959.140

* EAU CLAIRE COUNTY PUBLISHED COORDINATE VALUES. COORDINATE VALUES FIELD VERIFIED WITH CORNER TIE SHEETS.

COURSE TABLE - SECTION LINE			
FROM	TO	DIRECTION	DISTANCE
22707322000	22707290000	S 00° 02' 50" W	2621.09'

LOCATION SKETCH
NOT TO SCALE



ROAD NAME	BASIS OF EXISTING R/W	YEAR
CTH D	WI STATUTE 82.31 (2)	

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
22707322000	315	N 89° 01' 51" E	940.85'
315	119	N 33° 36' 07" E	664.73'
119	120	N 14° 49' 26" E	52.81'
120	121	N 33° 36' 07" E	100.00'
121	122	N 52° 22' 48" E	52.81'
122	123	S 56° 23' 53" E	66.00'
123	314	S 33° 36' 07" W	819.25'
314	133	S 33° 36' 07" W	280.75'
133	316	N 56° 23' 53" W	33.00'
316	204	N 56° 23' 53" W	33.00'
204	315	N 33° 36' 07" E	235.27'

COURSE TABLE - 1/4 LINE			
FROM	TO	DIRECTION	DISTANCE
315	306	N 89° 01' 51" E	40.08'
306	314	N 89° 01' 51" E	40.08'
314	22707332000	N 89° 01' 51" E	4246.70'
22707332000	22707322000	S 89° 01' 51" W	5267.71'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
308	117+00.00	0.00'
306	108+58.01	0.00'
314	108+80.75	33.00' RT
315	108+35.27	33.00' LT
316	106+00.00	0.00'

NOTE: POINTS 315, 306 & 314 MAY NOT BE COINCIDENT WITH 1/4 LINE.

22707332000
EAST 1/4 CORNER
** Y= 266,656.260
X= 410,223.940

** EAU CLAIRE COUNTY PUBLISHED COORDINATE VALUES.

I, NEIL C. BOWE, 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 COUNTY, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN NEIL C. BOWE S-2827 CHIPPEWA FALLS WI LAND SURVEYOR

SIGNATURE: Neil C. Bowe DATE: 7/1/20
PRINT NAME: NEIL C. BOWE
REGISTRATION NUMBER: S-2827

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR EAU CLAIRE COUNTY.

SIGNATURE: _____ DATE: 7/1/20
PRINT NAME: JON JOHNSON

cbs2
770 TECHNOLOGY WAY
CHIPPEWA FALLS, WI 54729

FILE NAME : P:\EAUCO\19001 CTH D PAVEMENT REPLACEMENT\RIGHT OF WAY\CAD\040101-RP.DWG PLOT DATE : 7/8/2020 6:55 AM
APPRAISAL PLAT DATE : 7/1/20

TRANSPORTATION PROJECT PLAT NO: 7823-07-02-4.03 AMENDMENT NO:1
AMENDS PARCEL 7 OF TRANSPORTATION PROJECT PLAT 7823-07-02-4.03
RECORDED AS DOCUMENT NO: 1194780, VOLUME 1 TPP, PAGE 84A.

THAT PART OF THE NW 1/4 OF THE NE 1/4, SECTION 33, TOWNSHIP 27 NORTH, RANGE 7 WEST, TOWN OF LUDINGTON, EAU CLAIRE COUNTY, WISCONSIN.

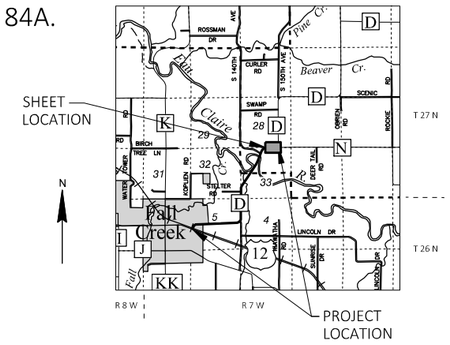
RELOCATION ORDER OF CTH D FALL CREEK - NCL, BOARDWALK STREET TO CTH N, EAU CLAIRE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 83.07 AND 83.08, WISCONSIN STATUTES, THE COUNTY HEREBY ORDERS THAT:

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LOCATION SKETCH
NOT TO SCALE



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN EAU CLAIRE COUNTY AS SHEET 2 OF 2 OF 7823-07-02-4.03.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), EAU CLAIRE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. NGS POINT UTILIZED WAS LINCOLN NW GPS DKS048.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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 DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF EAU CLAIRE COUNTY.

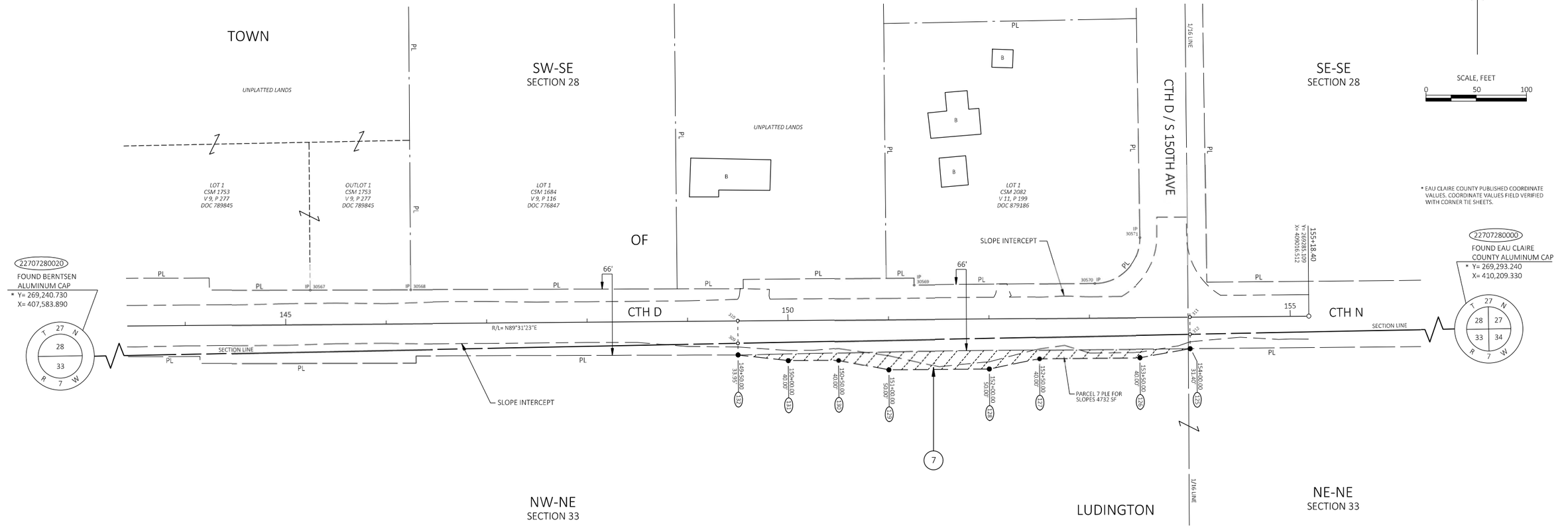
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE COUNTY.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W SQUARE FEET REQUIRED			PLE SQUARE FEET
			NEW	EXISTING	TOTAL	
-	-	-	-	-	-	-
7	DANIEL K & KAREN L MITCHELL MITTAG TRUST	PLE	-	-	-	4732

ROAD NAME	BASIS OF EXISTING R/W	YEAR
CTH D & S 150TH AVE	CSM 2082, V 11, P 199, DOC 879186	2003
CTH D	CSM 1753, V 9, P 277, DOC 789845	2000
CTH D	CSM 1684, V 9, P 116, DOC 776847	1999
CTH D & S 150TH AVE	WI STATUTE 82.31 (2)	

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7823-07-02-4.03
AMENDMENT NO: 1



RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
30567	269311.233	408022.510	1" IRON PIPE
30568	269311.544	408122.536	1" IRON PIPE
30569	269316.267	408623.586	1" IRON PIPE
30570	269317.878	408803.450	1" IRON PIPE
30571	269363.613	408848.311	1" IRON PIPE

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
22707280020	309	N 88° 51' 15" E	864.60'
309	310	N 00° 28' 37" W	22.36'
310	311	N 89° 31' 23" E	450.00'
311	125	S 00° 28' 37" E	31.40'
125	126	S 79° 45' 44" W	50.73'
126	127	S 89° 31' 23" W	100.00'
127	128	S 78° 12' 47" W	50.99'
128	129	S 89° 31' 23" W	100.00'
129	130	N 79° 10' 01" W	50.99'
130	131	S 89° 31' 23" W	50.00'
131	132	N 83° 34' 18" W	50.37'
132	309	N 00° 28' 37" W	11.59'

COURSE TABLE - SECTION LINE			
FROM	TO	DIRECTION	DISTANCE
22707280000	312	S 88° 51' 15" W	1311.34'
312	309	S 88° 51' 15" W	450.03'
22707280020	22707280000	N 88° 51' 15" E	2625.97'

COURSE TABLE - SEGMENTS			
FROM	TO	DIRECTION	DISTANCE
311	312	S 00° 28' 37" E	17.11'
312	125	S 00° 28' 37" E	14.29'

STATION & OFFSET TABLE		
POINT	STATION	OFFSET
309	149+50.00	22.36' RT
310	149+50.00	0.00'
311	154+00.00	0.00'
312	154+00.00	17.11' RT

cbs2
770 TECHNOLOGY WAY
CHIPPEWA FALLS, WI 54729

I, NEIL C. BOWE, 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 COUNTY, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN NEIL C. BOWE S-2827 CHIPPEWA FALLS WI LAND SURVEYOR

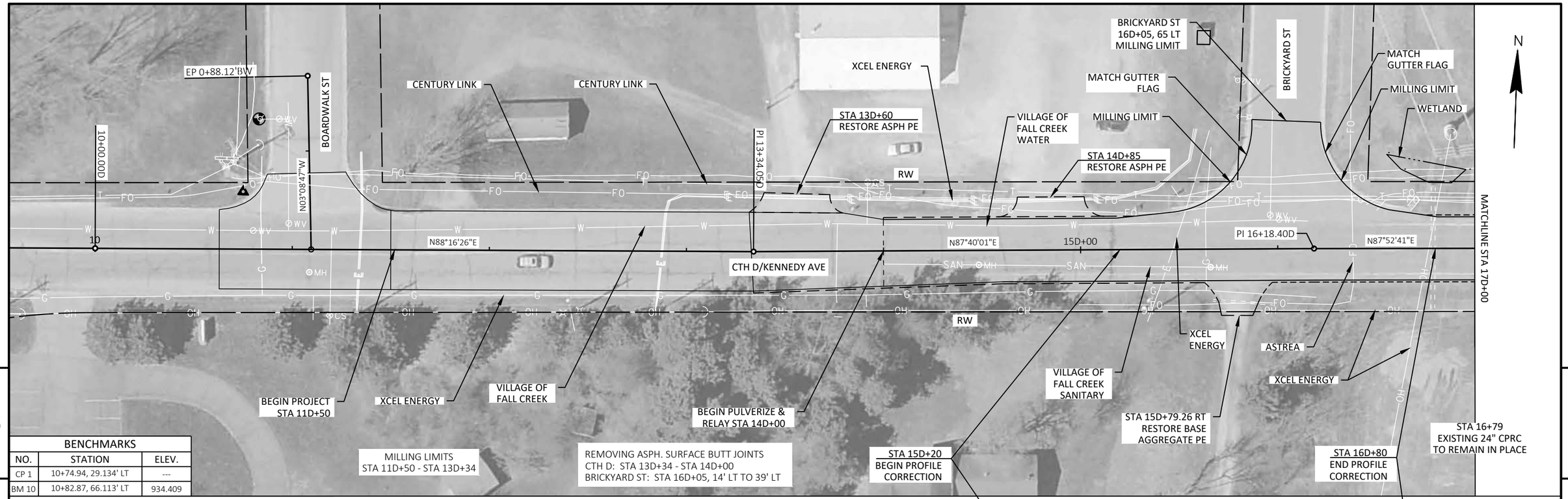
SIGNATURE: Neil C. Bowe DATE: 10/23/20
PRINT NAME: NEIL C. BOWE
REGISTRATION NUMBER: S-2827

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR EAU CLAIRE COUNTY.

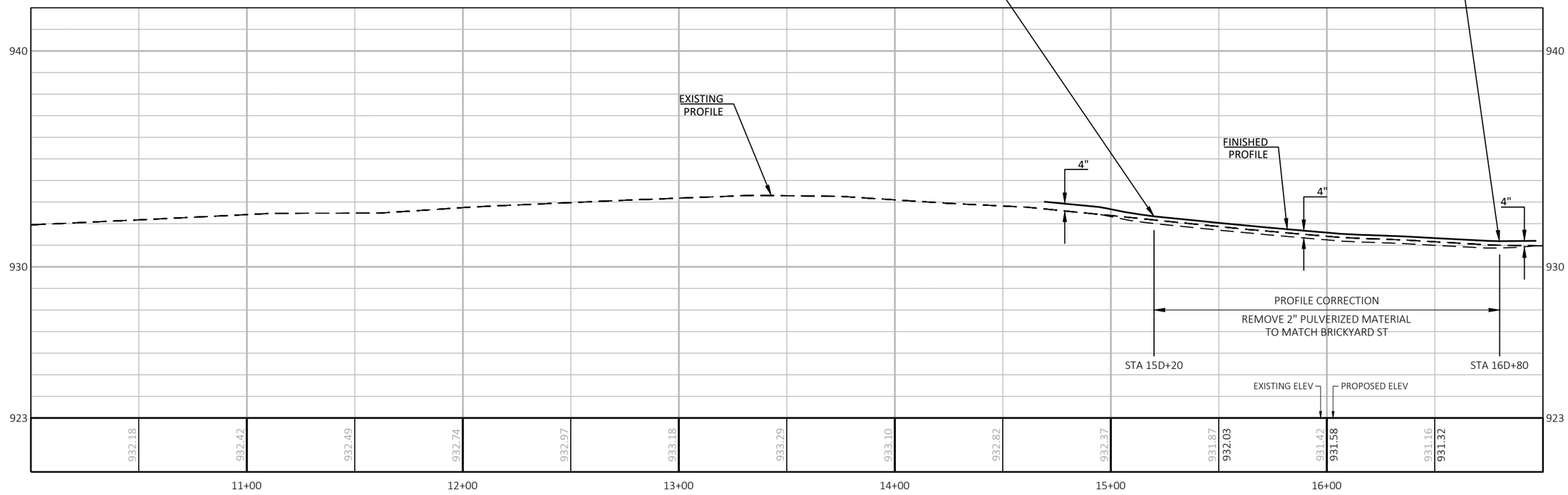
SIGNATURE: _____ DATE: 10/23/20
PRINT NAME: JON JOHNSON

FILE NAME : P:\EAUCO\19001 CTH D PAVEMENT REPLACEMENT\RIGHT OF WAY\CAD\040101-RP_7-8-2020_REVISED.DWG PLOT DATE : 10/23/2020 3:10 PM
APPRAISAL PLAT DATE : 10/23/20

WISDOT 7823-07-02-4.03

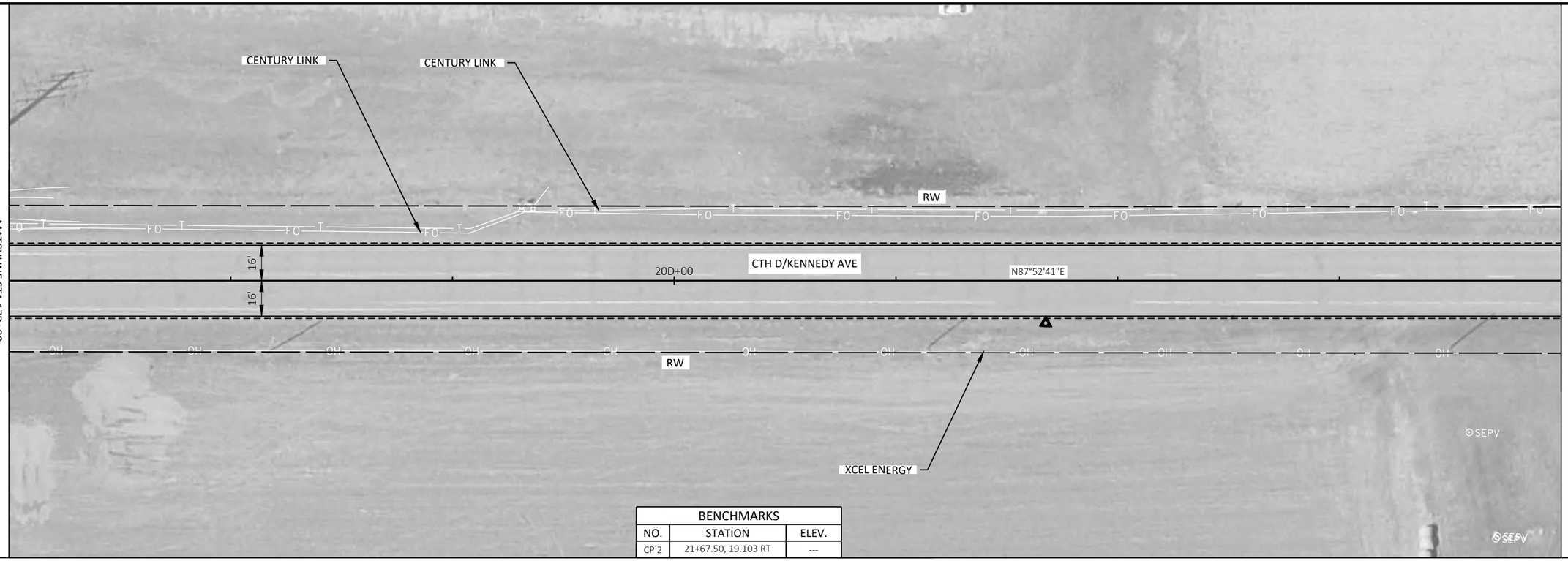


BENCHMARKS		
NO.	STATION	ELEV.
CP 1	10+74.94, 29.134' LT	---
BM 10	10+82.87, 66.113' LT	934.409

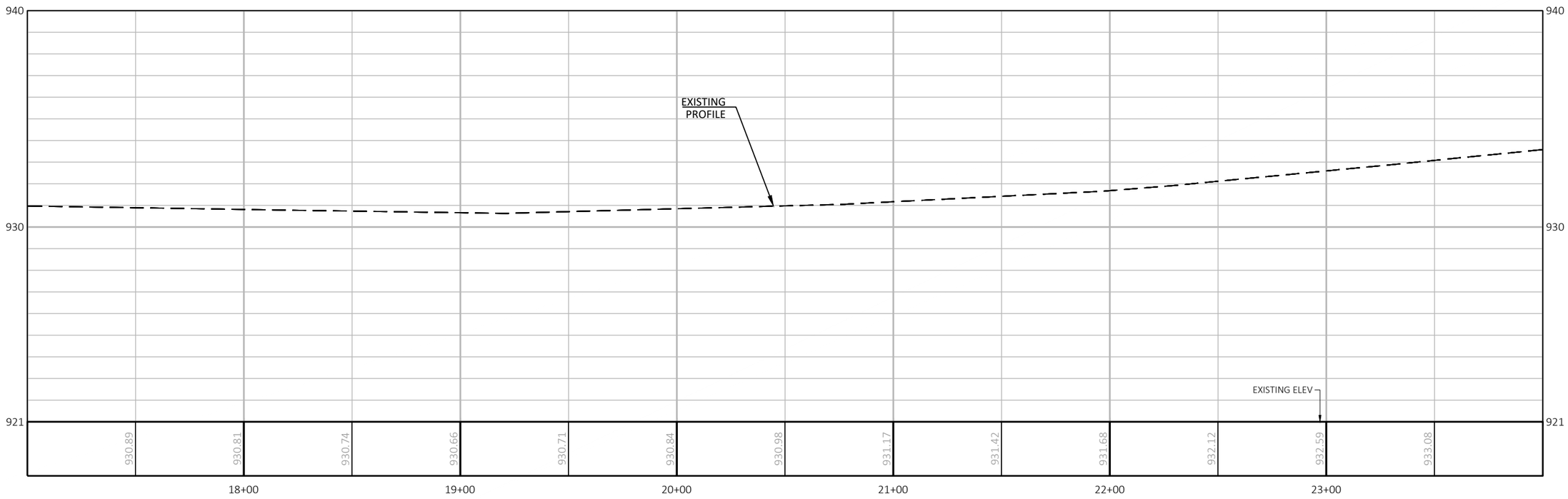


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 69	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050101_pp
PLOT DATE : 11/10/2020 7:35 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:50 FT



BENCHMARKS		
NO.	STATION	ELEV.
CP 2	21+67.50, 19.103 RT	---

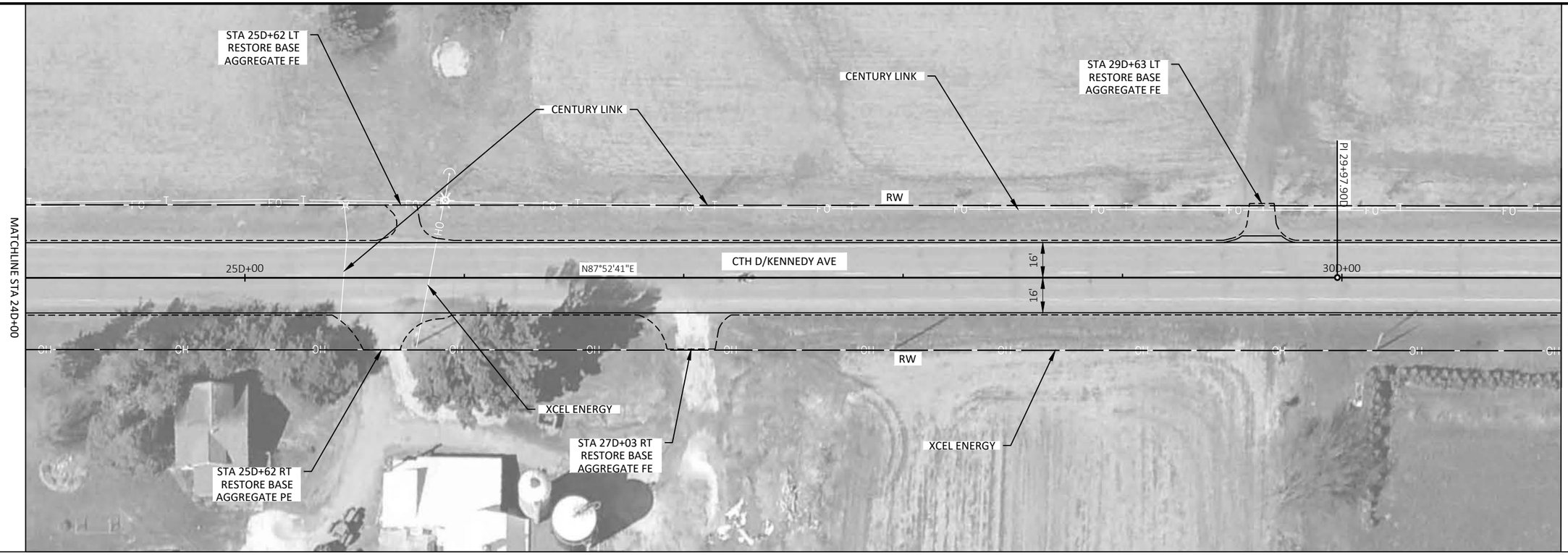


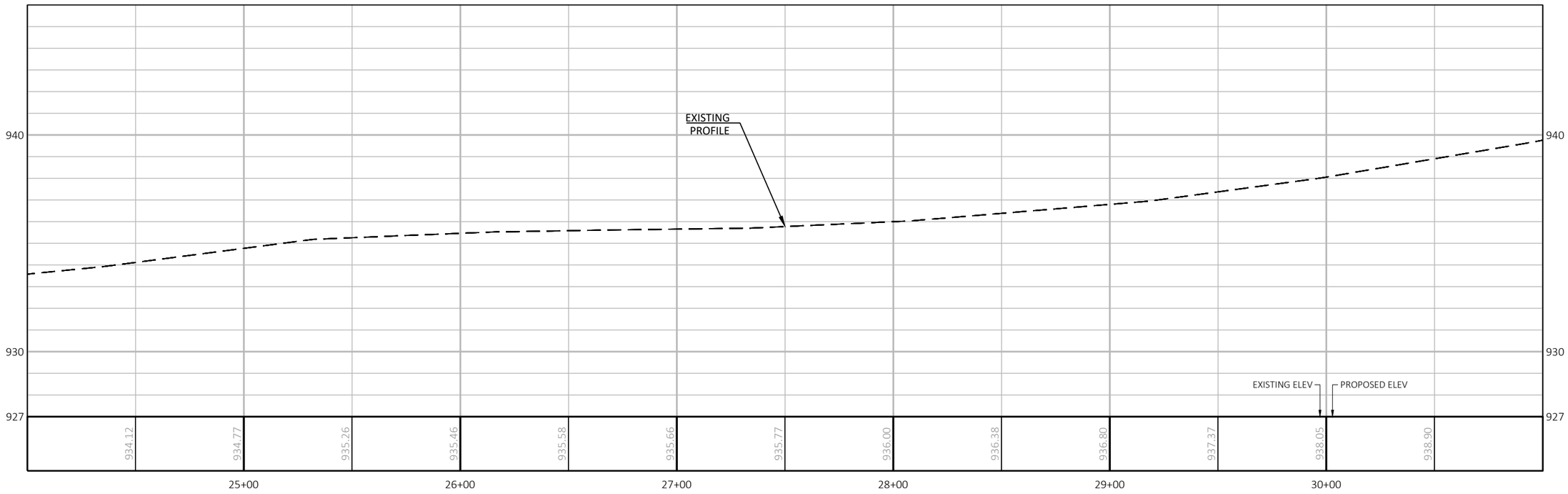
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 70	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050102_pp

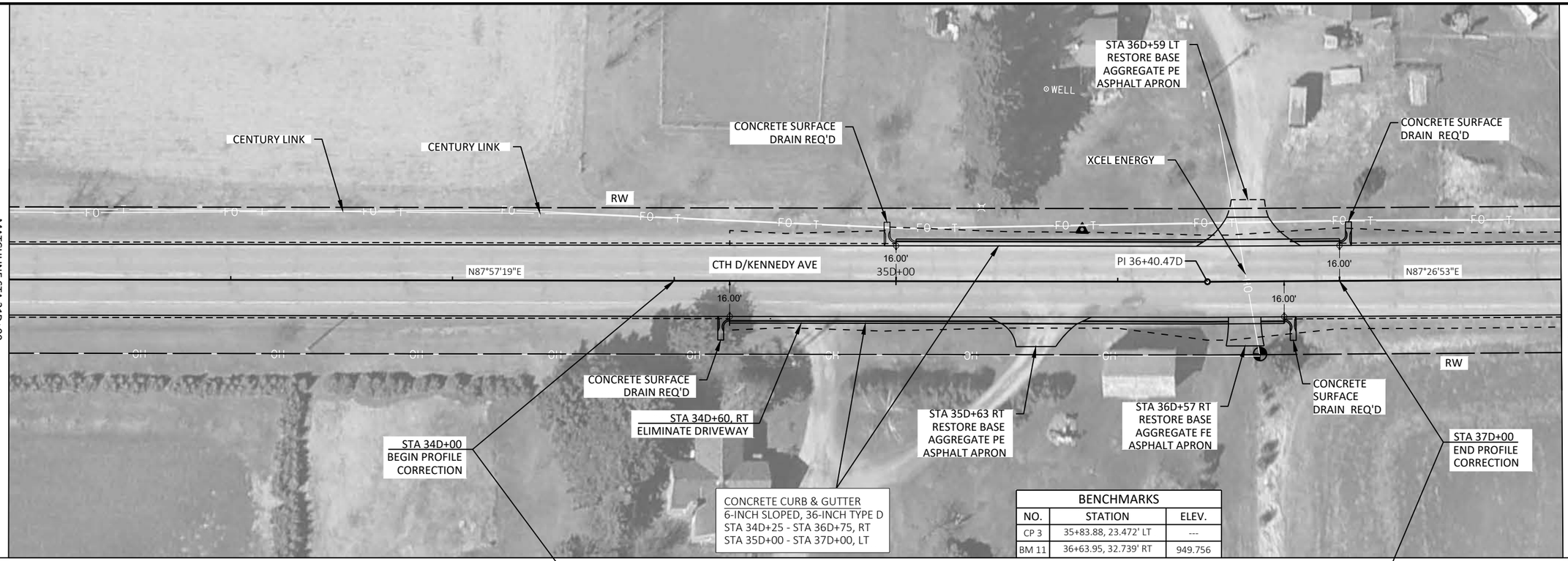
PLOT DATE : 11/10/2020 7:35 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

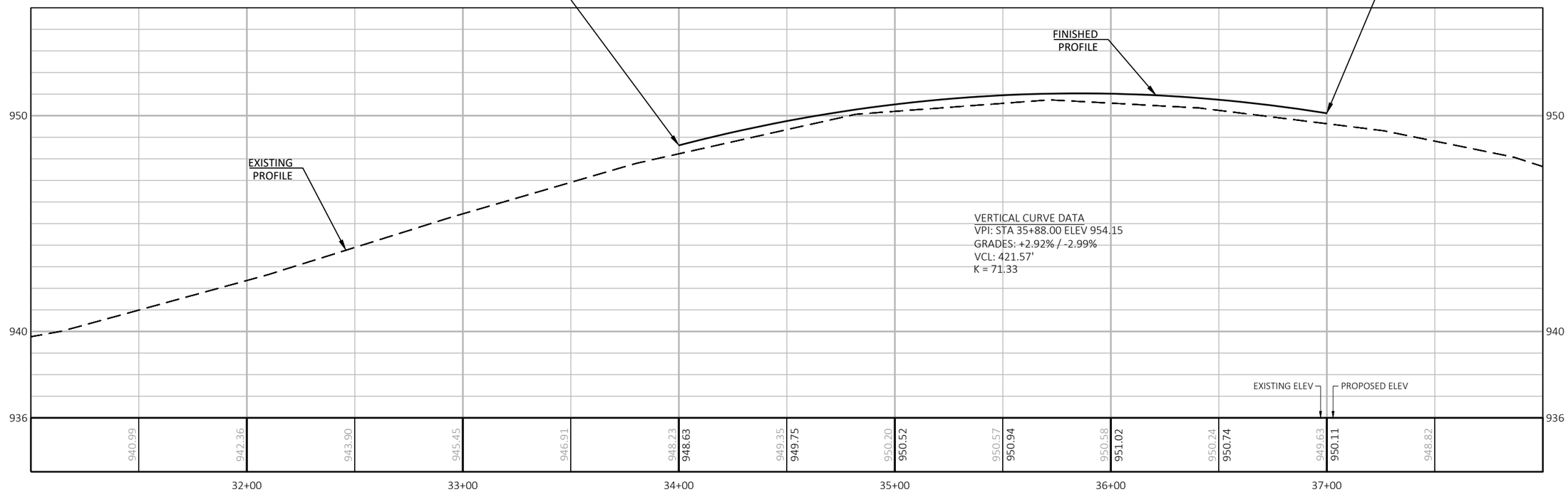




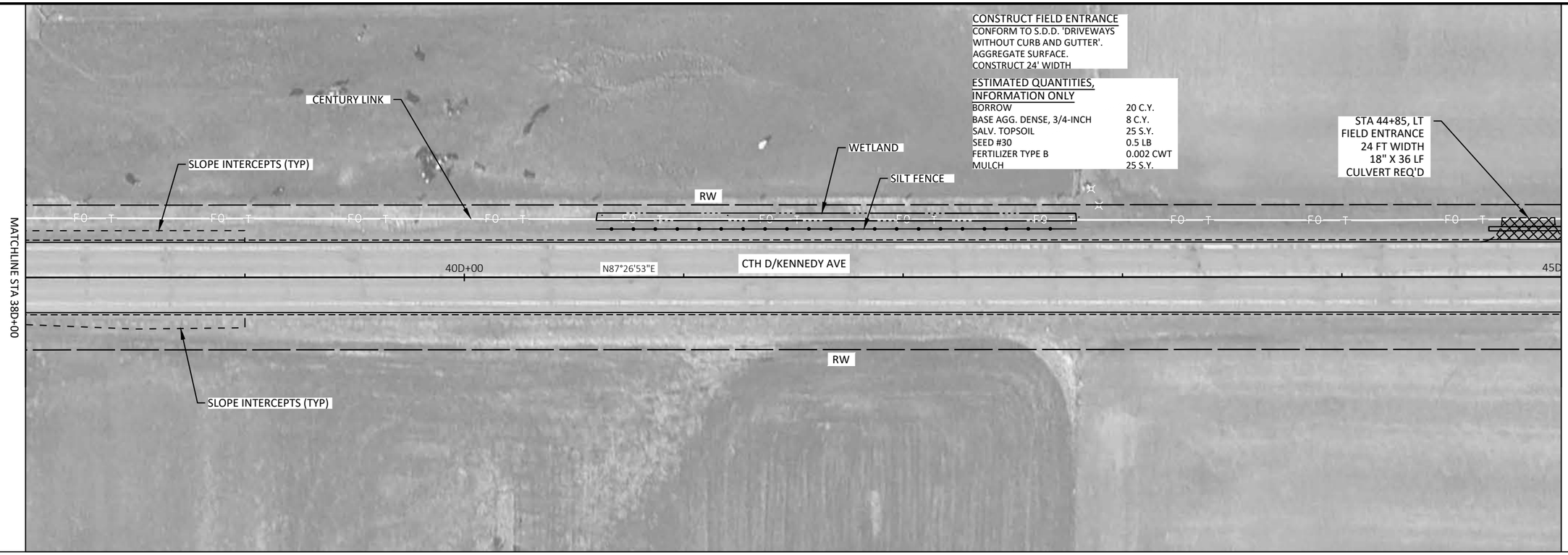
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 71	E

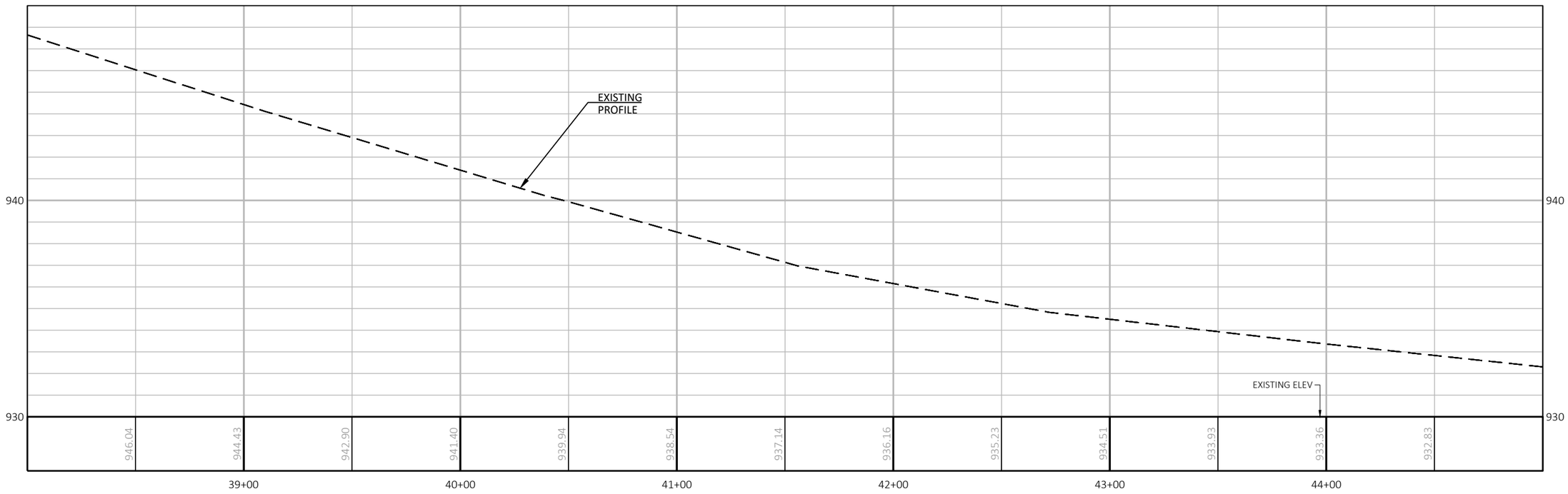


BENCHMARKS		
NO.	STATION	ELEV.
CP 3	35+83.88, 23.472' LT	---
BM 11	36+63.95, 32.739' RT	949.756

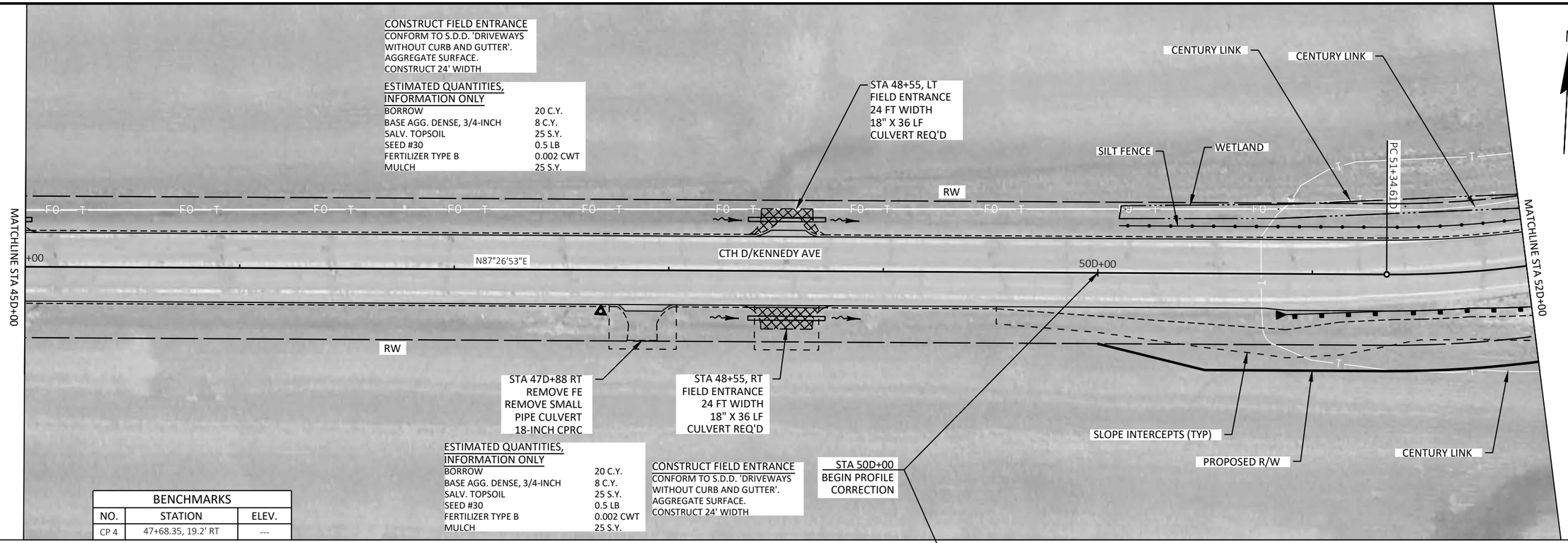


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 72	E

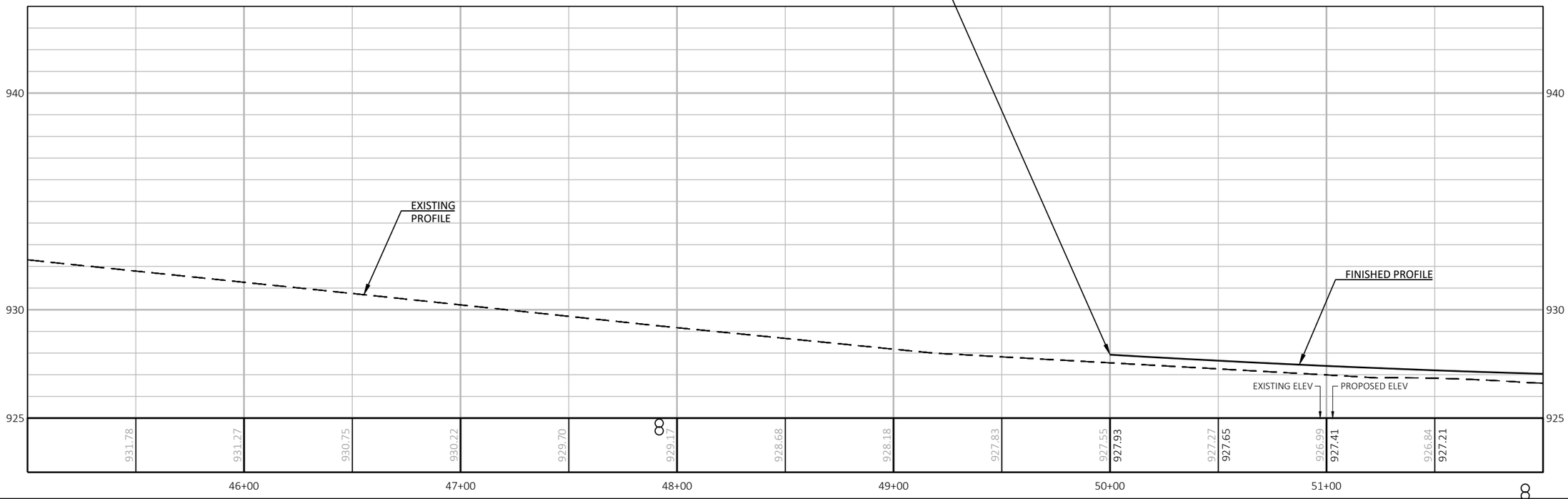




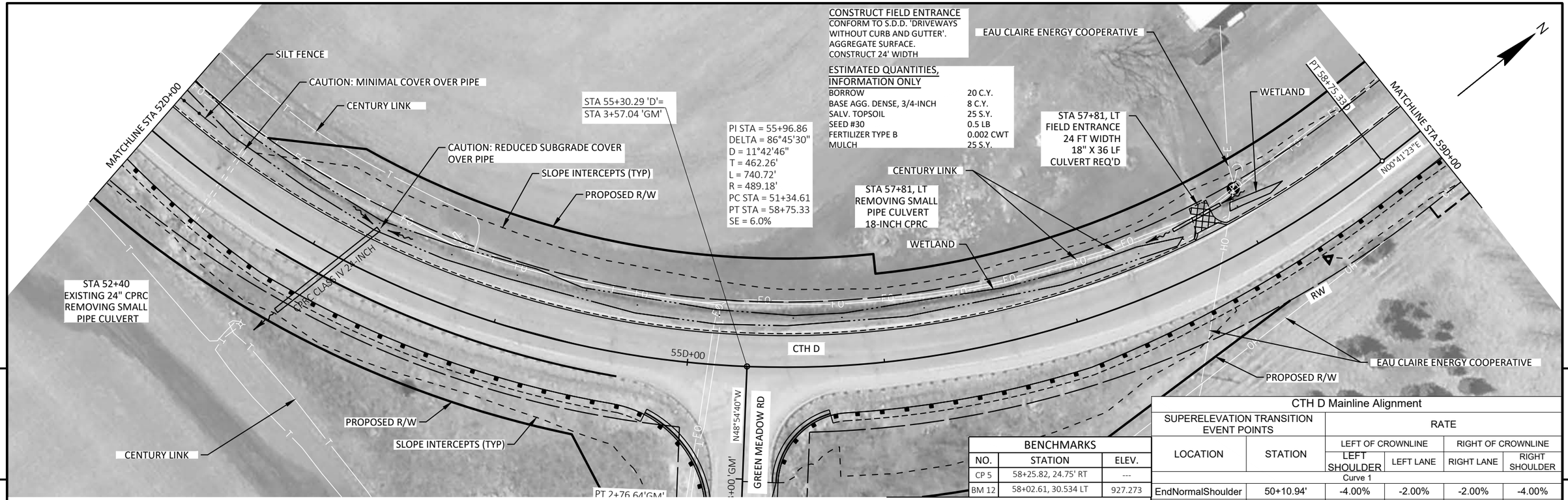
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 73	E



BENCHMARKS		
NO.	STATION	ELEV.
CP 4	47+68.35, 19.2' RT	---



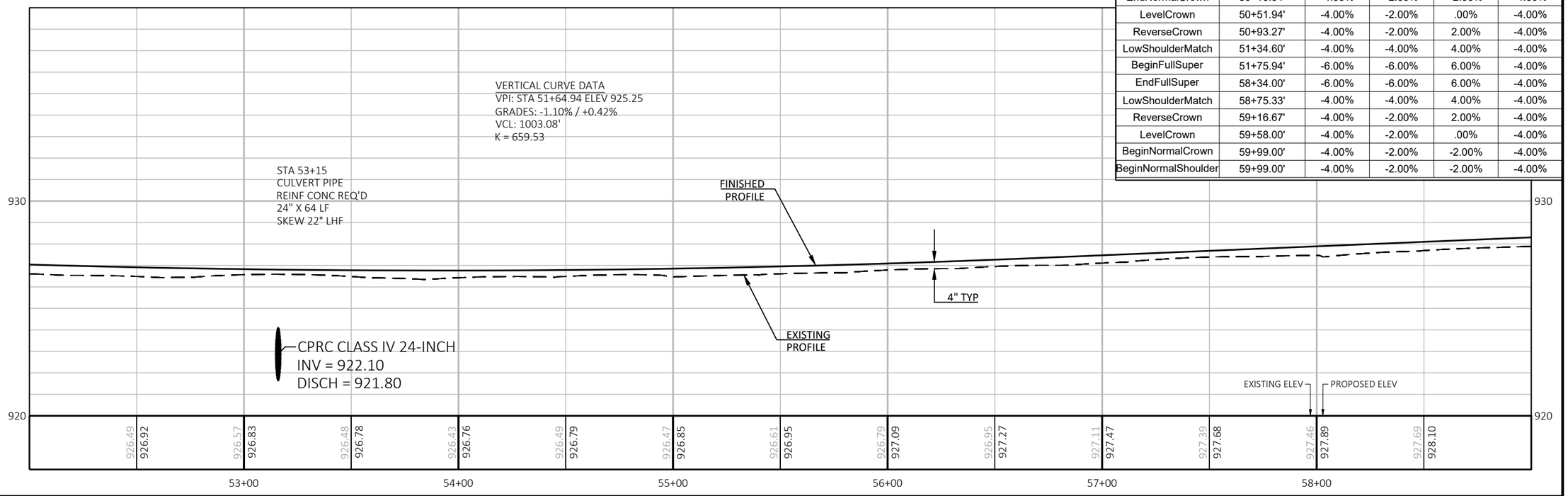
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 74	E



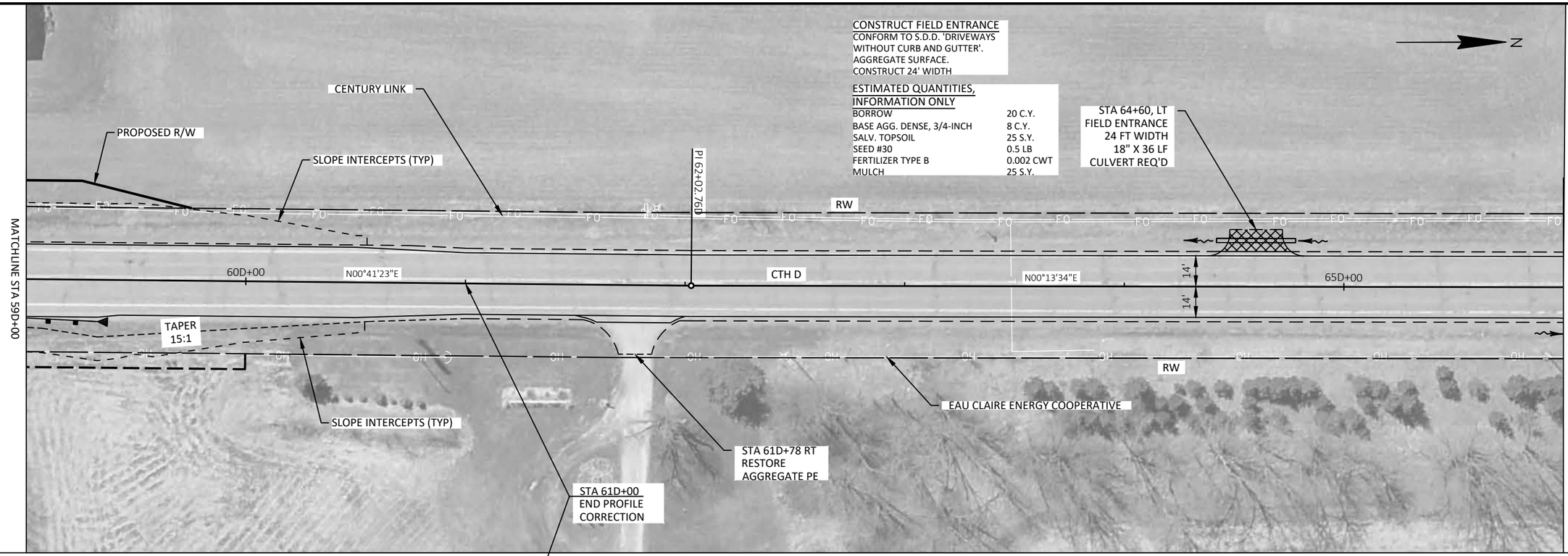
BENCHMARKS		
NO.	STATION	ELEV.
CP 5	58+25.82, 24.75' RT	---
BM 12	58+02.61, 30.534 LT	927.273

CTH D Mainline Alignment

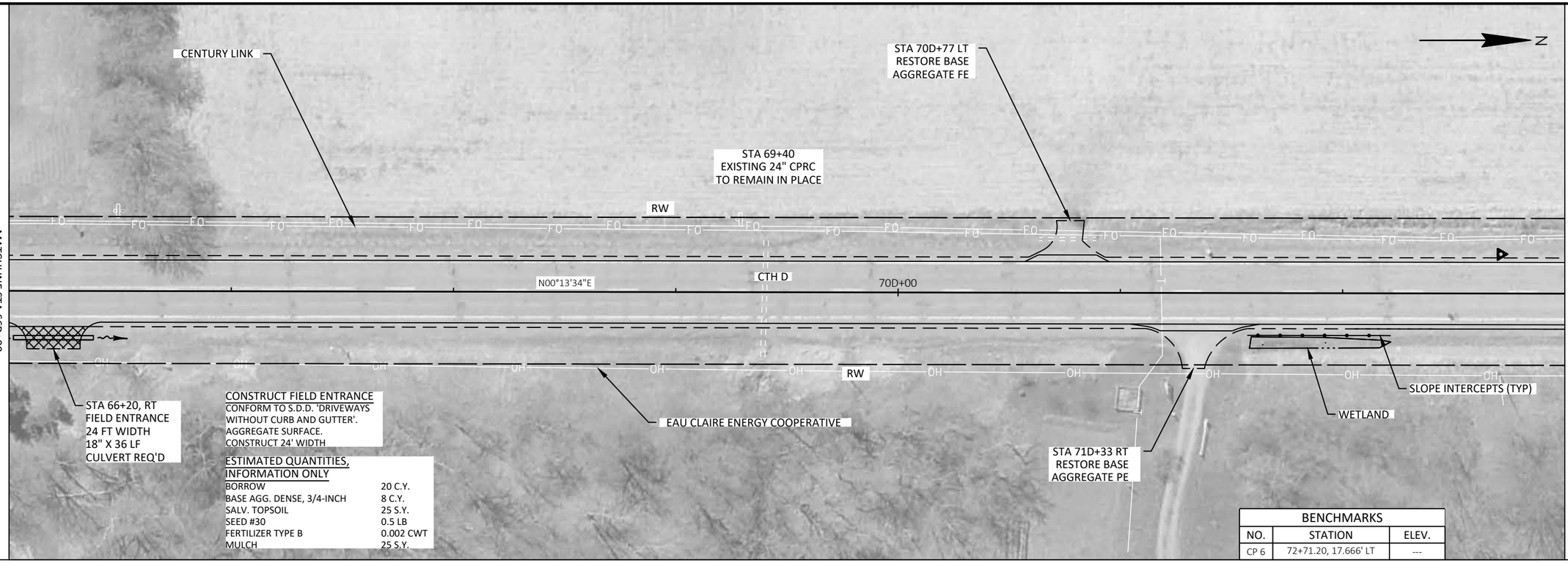
SUPERELEVATION TRANSITION EVENT POINTS		RATE			
		LEFT OF CROWNLINE		RIGHT OF CROWNLINE	
LOCATION	STATION	LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
Curve 1					
EndNormalShoulder	50+10.94'	-4.00%	-2.00%	-2.00%	-4.00%
EndNormalCrown	50+10.94'	-4.00%	-2.00%	-2.00%	-4.00%
LevelCrown	50+51.94'	-4.00%	-2.00%	.00%	-4.00%
ReverseCrown	50+93.27'	-4.00%	-2.00%	2.00%	-4.00%
LowShoulderMatch	51+34.60'	-4.00%	-4.00%	4.00%	-4.00%
BeginFullSuper	51+75.94'	-6.00%	-6.00%	6.00%	-4.00%
EndFullSuper	58+34.00'	-6.00%	-6.00%	6.00%	-4.00%
LowShoulderMatch	58+75.33'	-4.00%	-4.00%	4.00%	-4.00%
ReverseCrown	59+16.67'	-4.00%	-2.00%	2.00%	-4.00%
LevelCrown	59+58.00'	-4.00%	-2.00%	.00%	-4.00%
BeginNormalCrown	59+99.00'	-4.00%	-2.00%	-2.00%	-4.00%
BeginNormalShoulder	59+99.00'	-4.00%	-2.00%	-2.00%	-4.00%



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 75	E



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 76	E

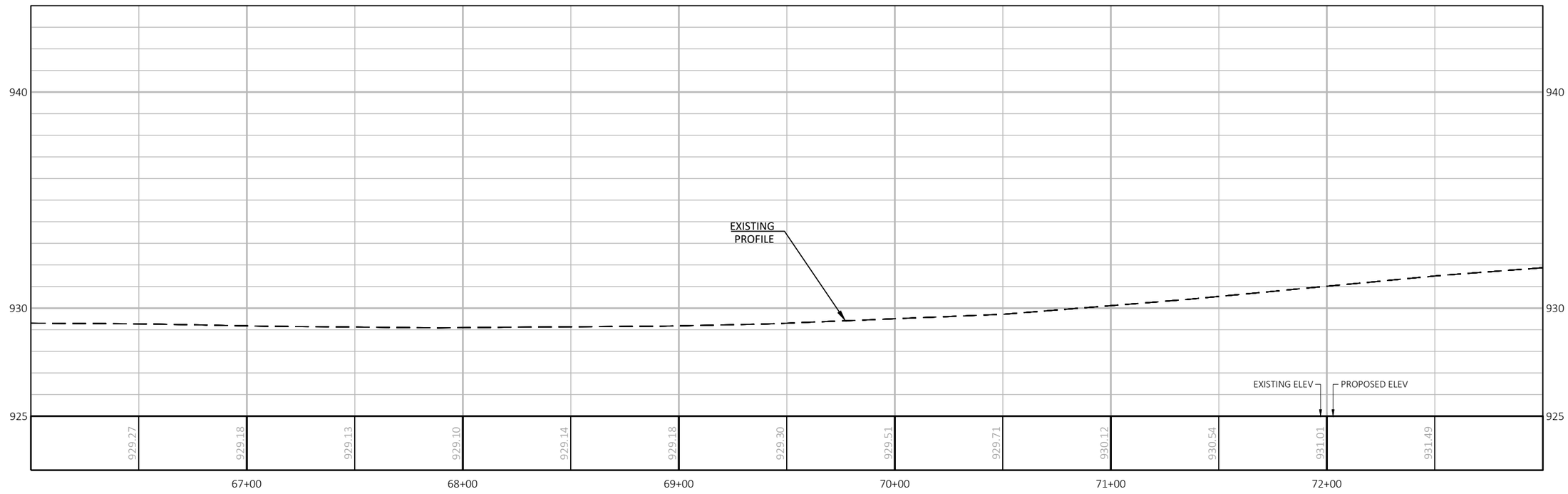


ESTIMATED QUANTITIES, INFORMATION ONLY

BORROW	20 C.Y.
BASE AGG. DENSE, 3/4-INCH	8 C.Y.
SALV. TOPSOIL	25 S.Y.
SEED #30	0.5 LB
FERTILIZER TYPE B	0.002 CWT
MULCH	25 S.Y.

BENCHMARKS

NO.	STATION	ELEV.
CP 6	72+71.20, 17.666' LT	---

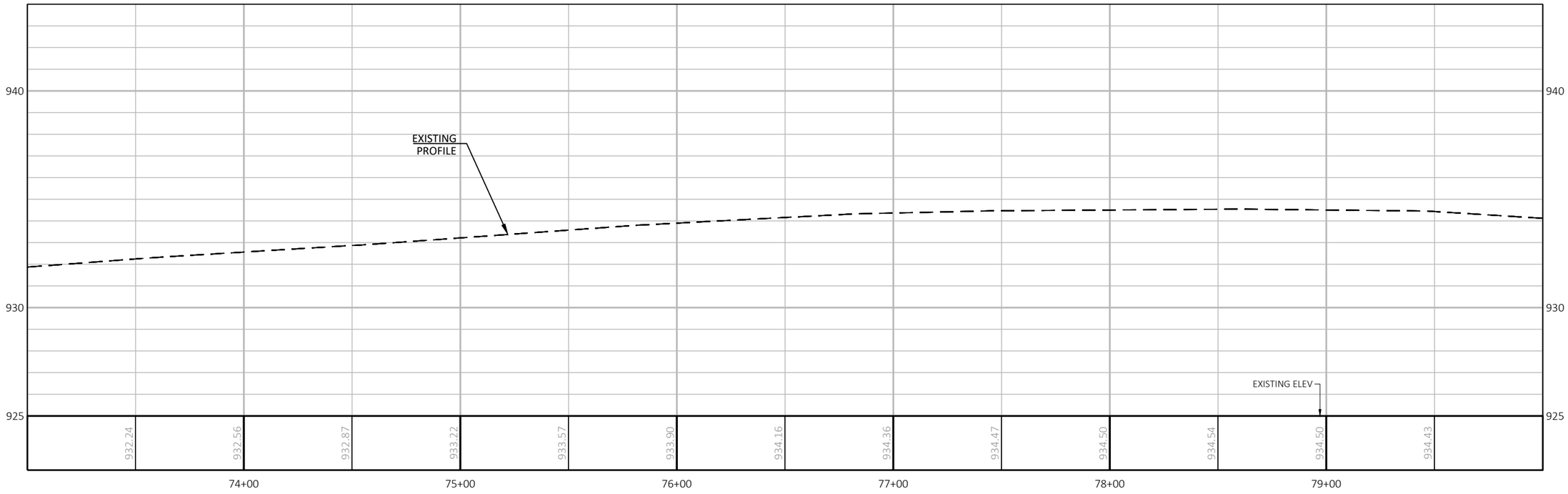


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 77	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050109_pp

PLOT DATE : 11/10/2020 7:37 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:50 FT



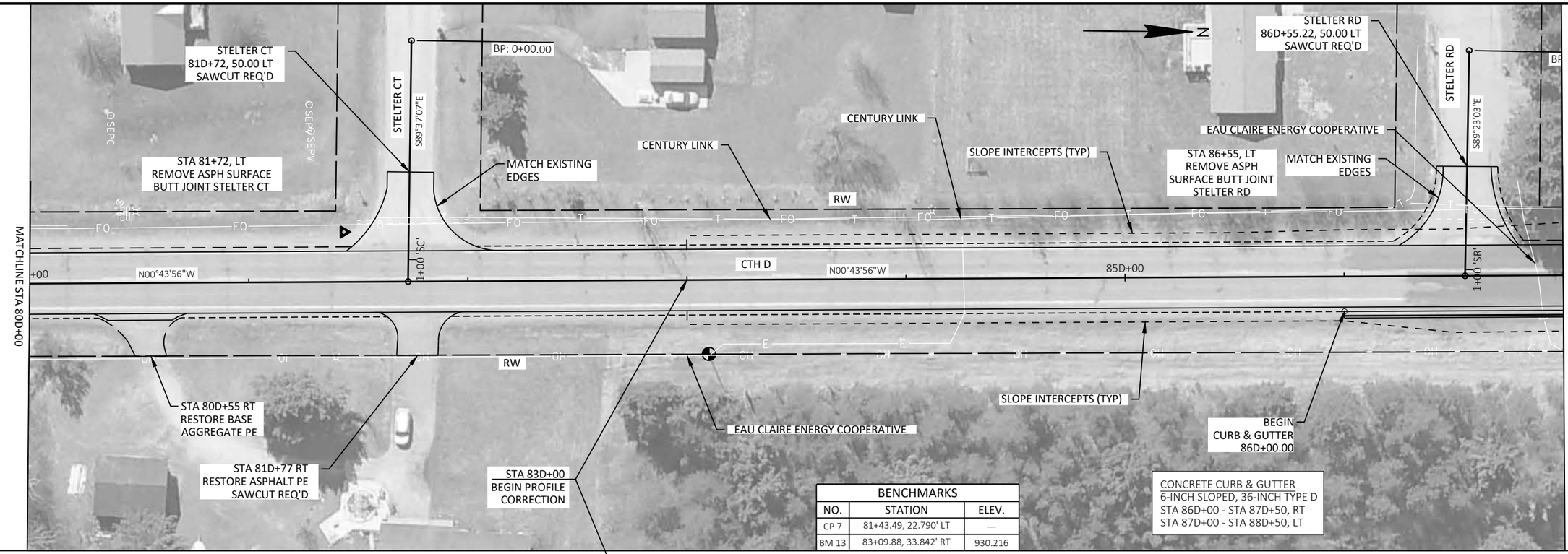


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 78	E

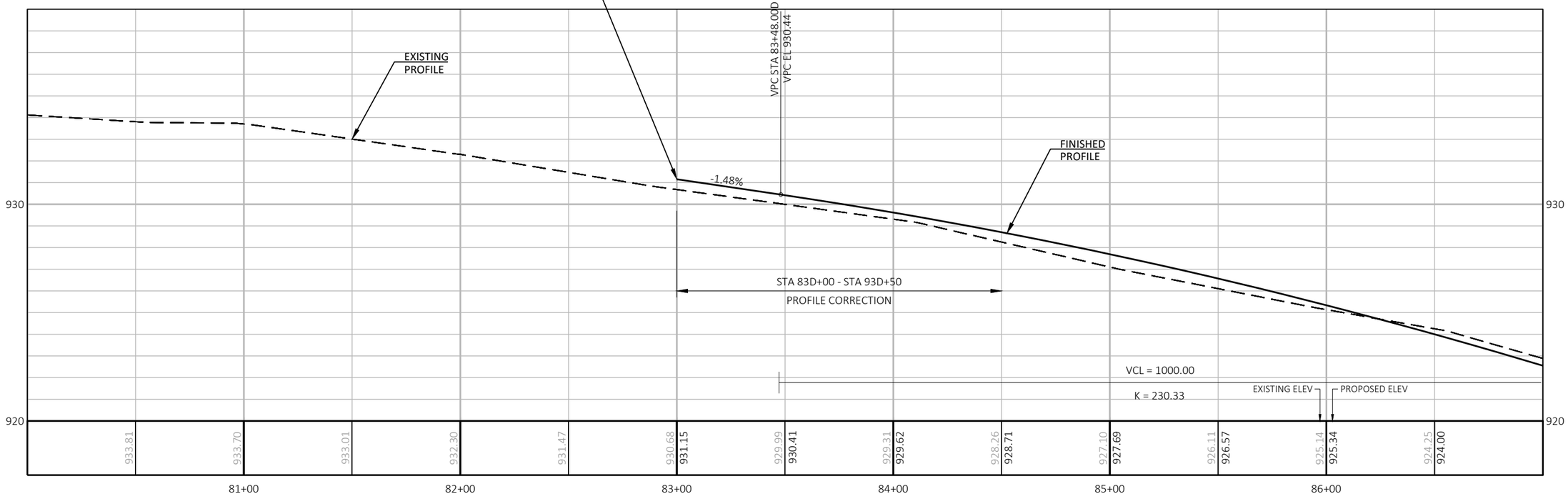
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LAYOUT NAME - 050110_pp

PLOT DATE : 11/10/2020 7:37 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



BENCHMARKS		
NO.	STATION	ELEV.
CP 7	81+43.49, 22.790' LT	---
BM 13	83+09.88, 33.842' RT	930.216

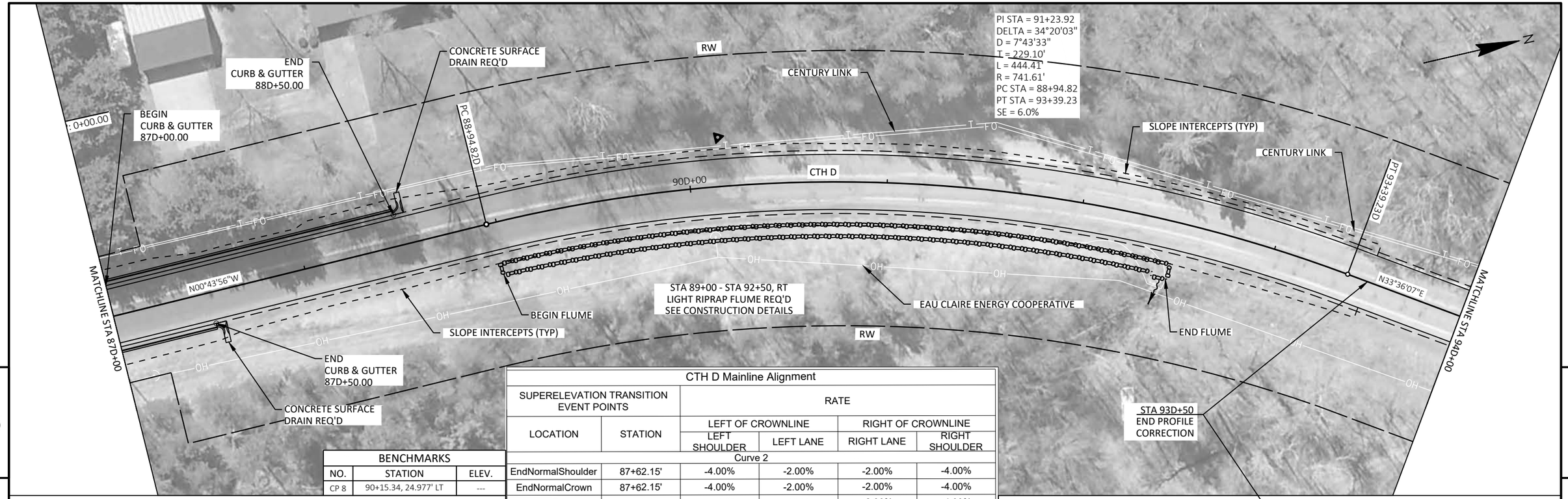


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 79	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050111_pp

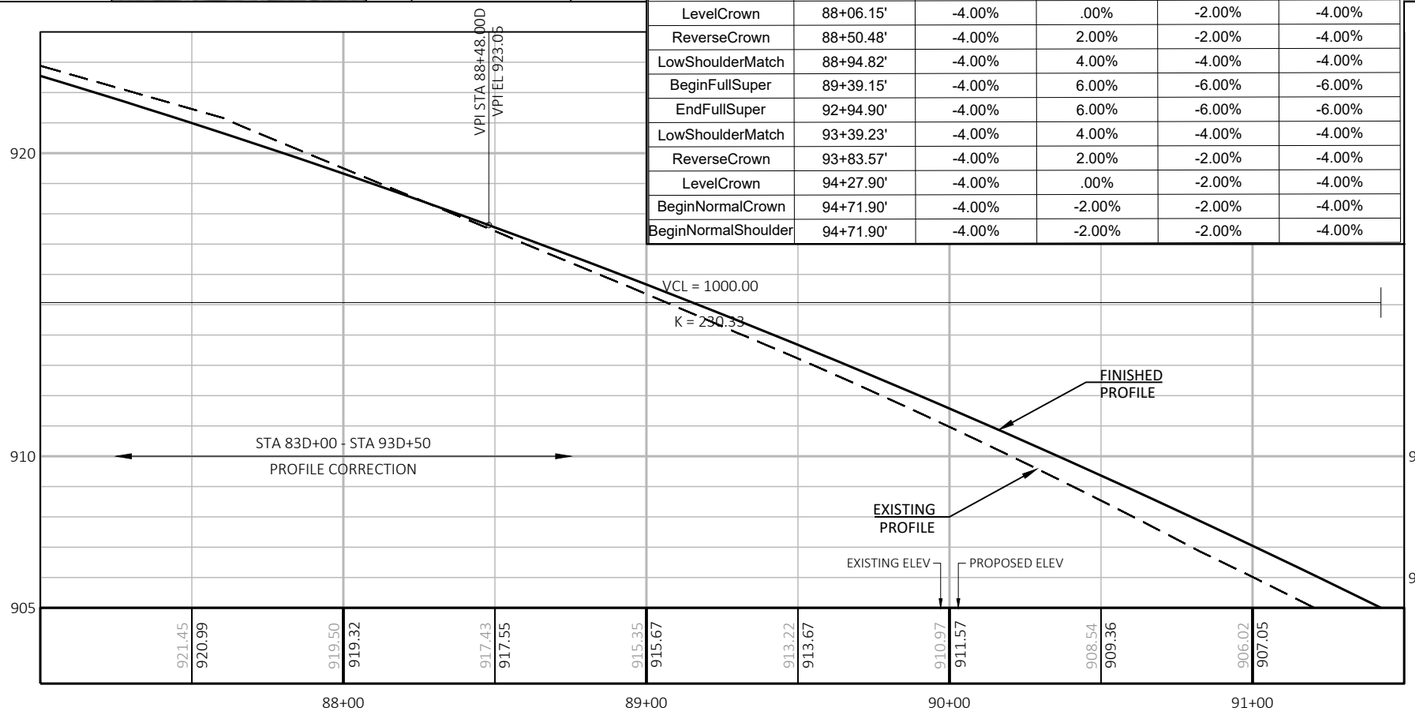
PLOT DATE : 11/10/2020 7:37 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:50 FT

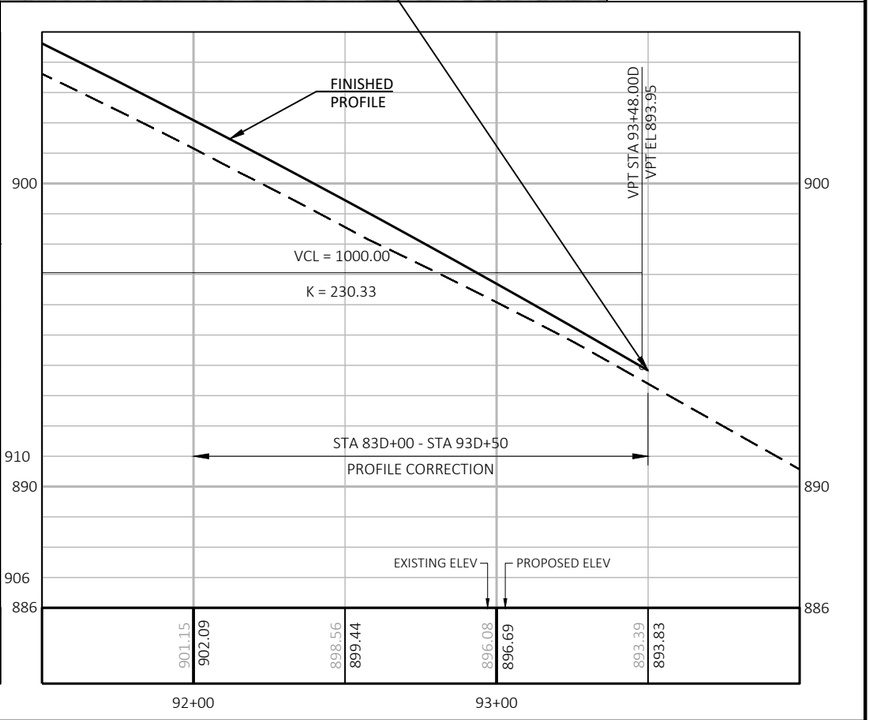
WISDOT/CADDS SHEET 44



BENCHMARKS		
NO.	STATION	ELEV.
CP 8	90+15.34, 24.977' LT	---

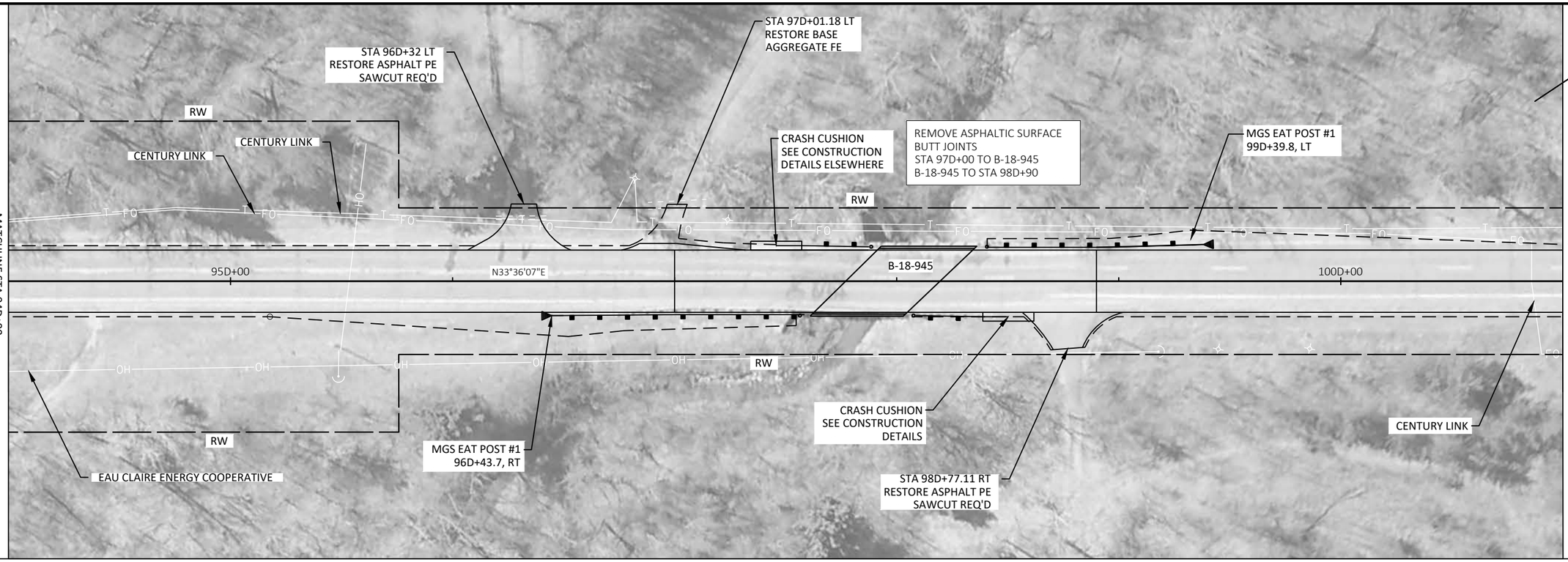
CTH D Mainline Alignment					
SUPERELEVATION TRANSITION EVENT POINTS		RATE			
LOCATION	STATION	LEFT OF CROWNLINE		RIGHT OF CROWNLINE	
		LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
Curve 2					
EndNormalShoulder	87+62.15'	-4.00%	-2.00%	-2.00%	-4.00%
EndNormalCrown	87+62.15'	-4.00%	-2.00%	-2.00%	-4.00%
LevelCrown	88+06.15'	-4.00%	.00%	-2.00%	-4.00%
ReverseCrown	88+50.48'	-4.00%	2.00%	-2.00%	-4.00%
LowShoulderMatch	88+94.82'	-4.00%	4.00%	-4.00%	-4.00%
BeginFullSuper	89+39.15'	-4.00%	6.00%	-6.00%	-6.00%
EndFullSuper	92+94.90'	-4.00%	6.00%	-6.00%	-6.00%
LowShoulderMatch	93+39.23'	-4.00%	4.00%	-4.00%	-4.00%
ReverseCrown	93+83.57'	-4.00%	2.00%	-2.00%	-4.00%
LevelCrown	94+27.90'	-4.00%	.00%	-2.00%	-4.00%
BeginNormalCrown	94+71.90'	-4.00%	-2.00%	-2.00%	-4.00%
BeginNormalShoulder	94+71.90'	-4.00%	-2.00%	-2.00%	-4.00%

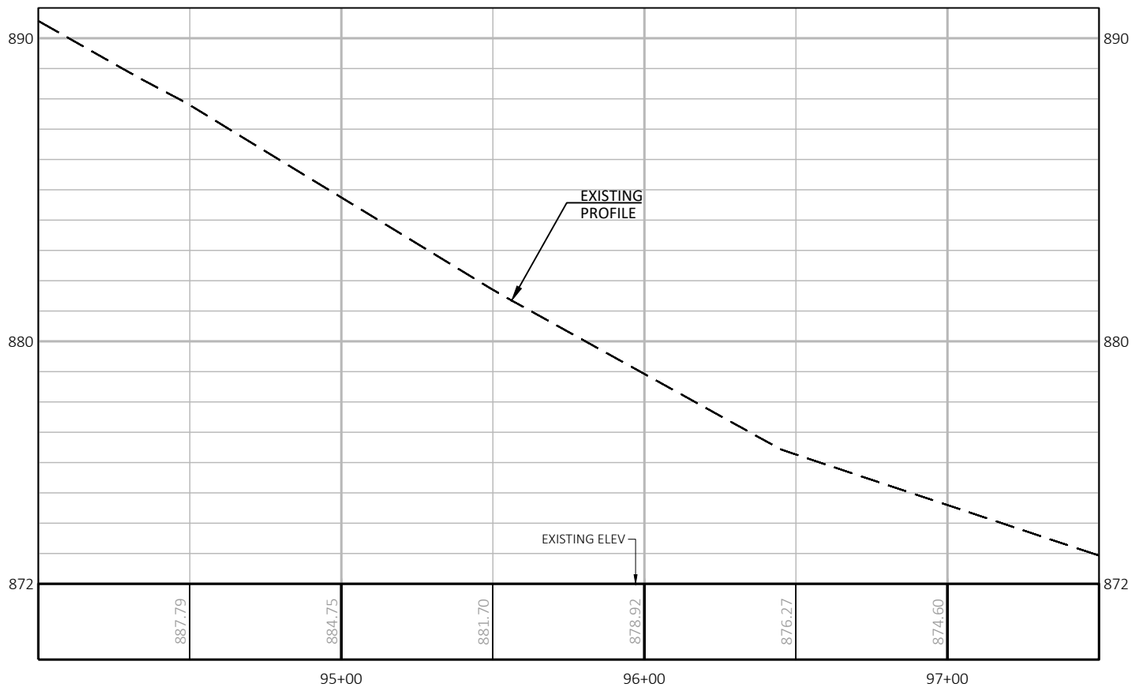


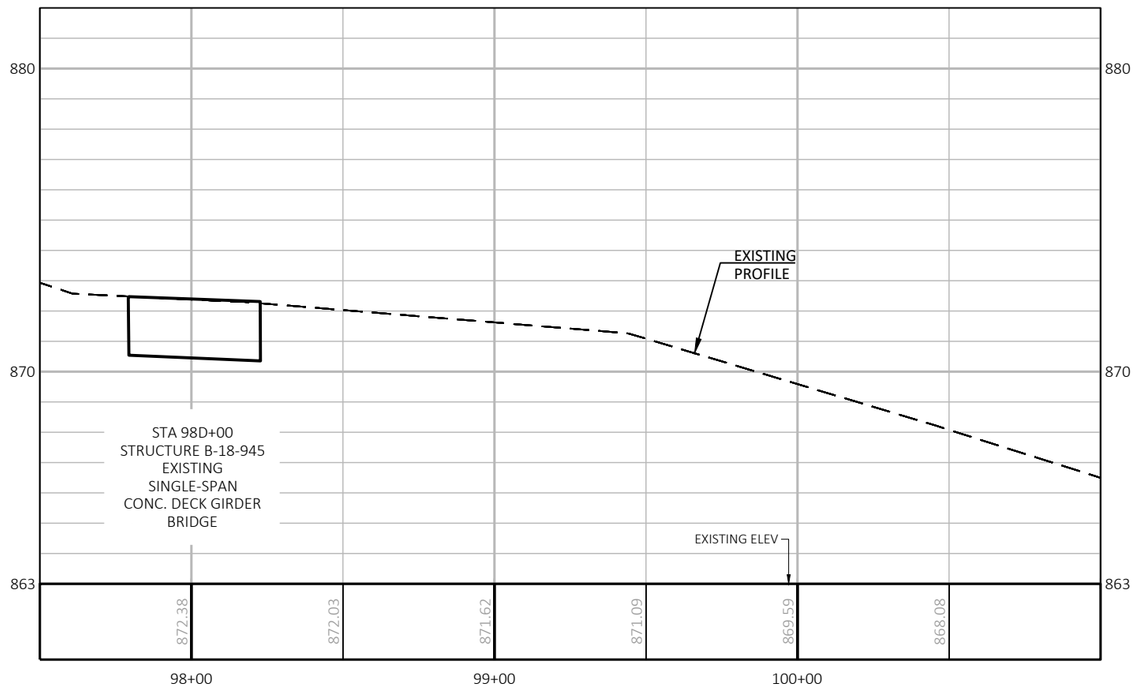


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 80	E

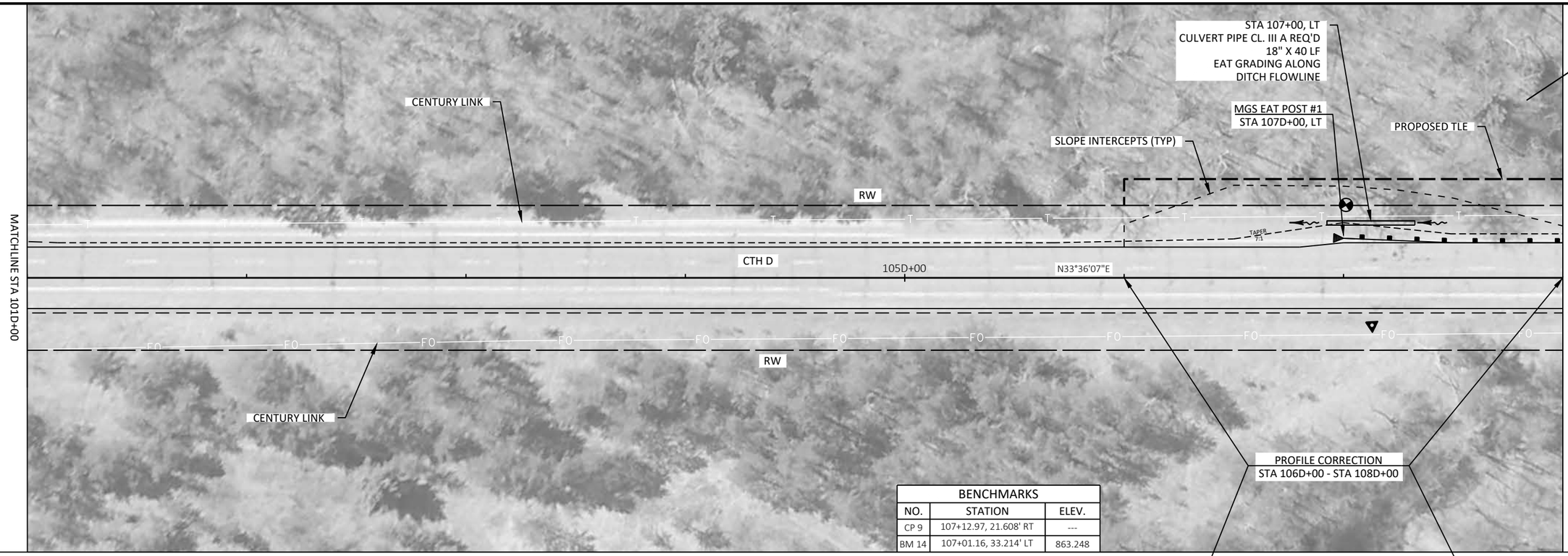
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LAYOUT NAME - 050112_pp
PLOT DATE : 11/10/2020 7:38 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:50 FT



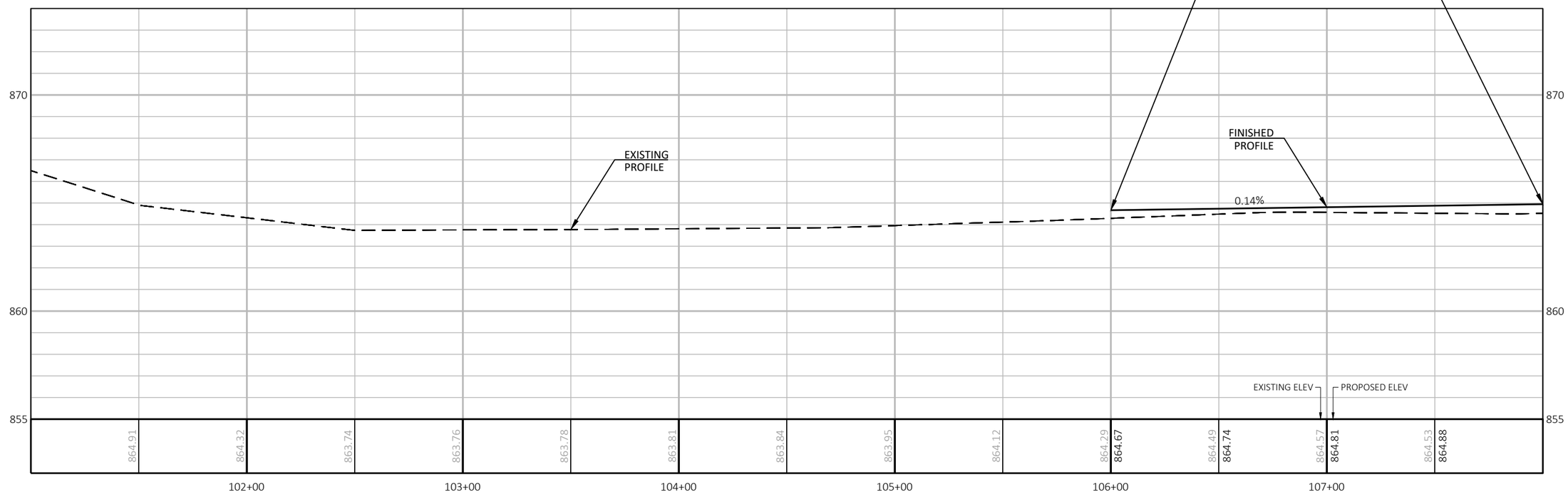




PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 81	E



BENCHMARKS		
NO.	STATION	ELEV.
CP 9	107+12.97, 21.608' RT	---
BM 14	107+01.16, 33.214' LT	863.248

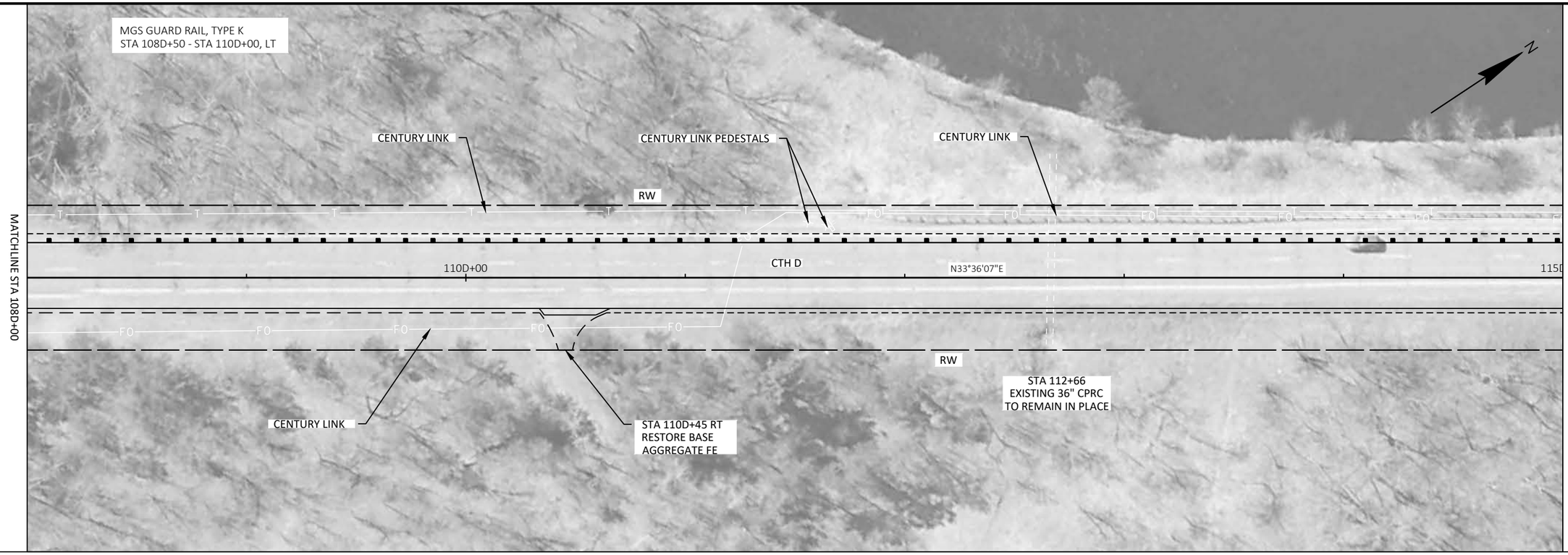


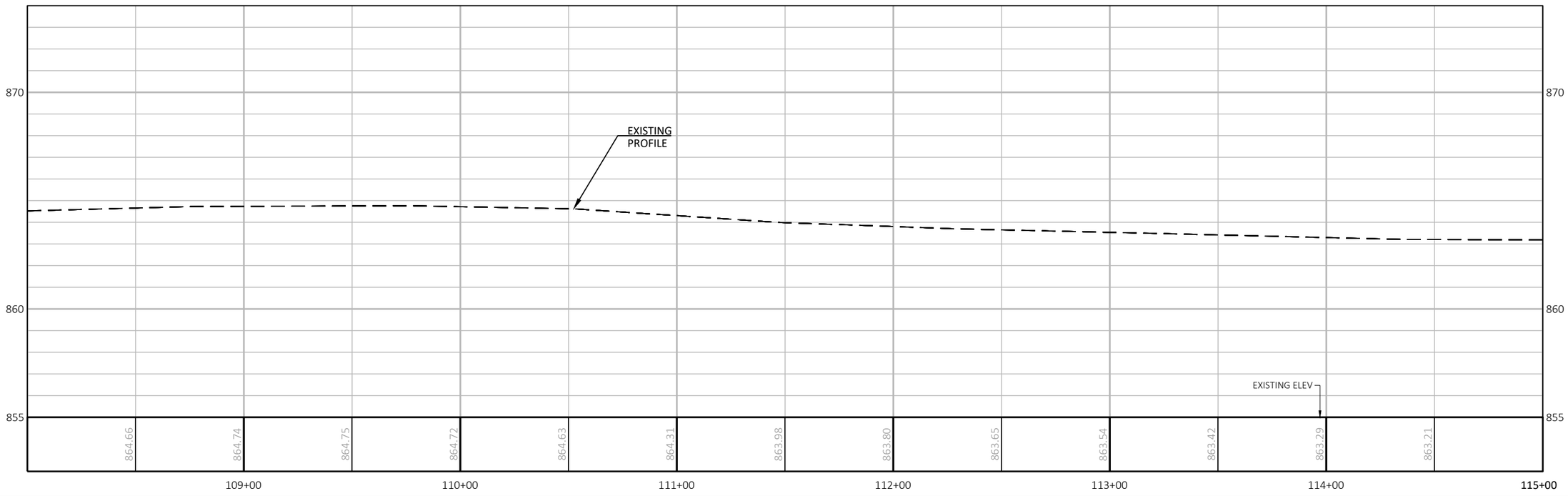
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 82 E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050114_pp

PLOT DATE : 11/10/2020 7:40 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



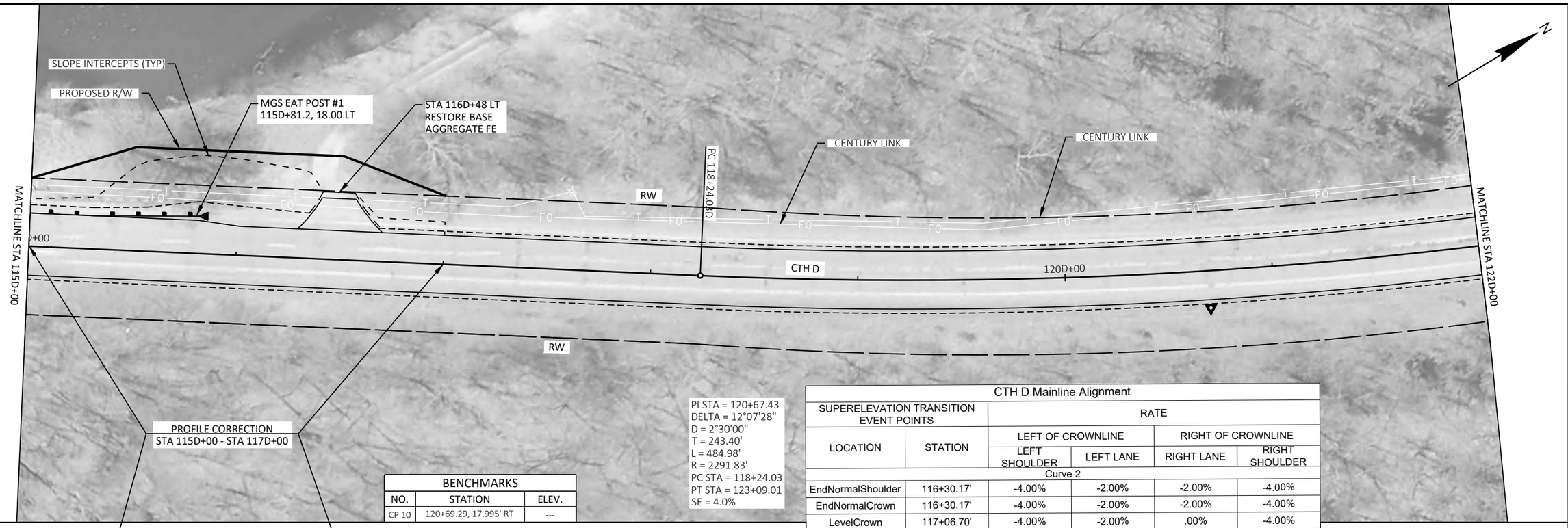


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 83	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050115_pp

PLOT DATE : 11/10/2020 7:40 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:50 FT

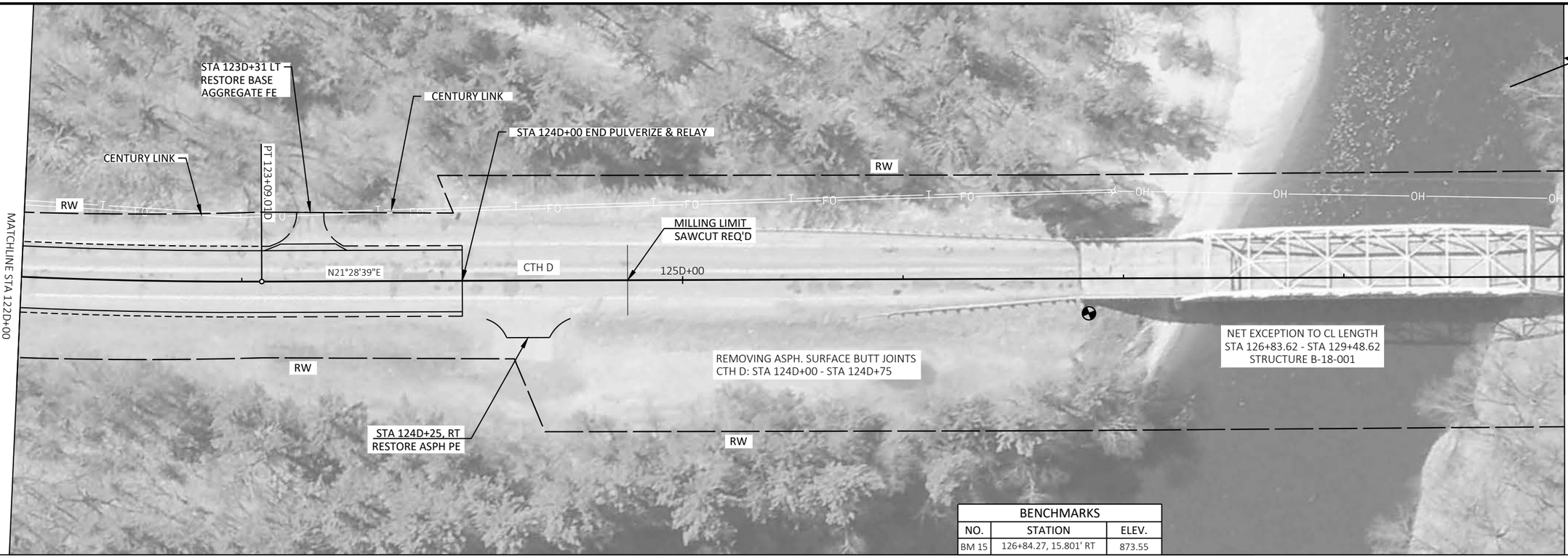
WISDOT/CADDS SHEET 44



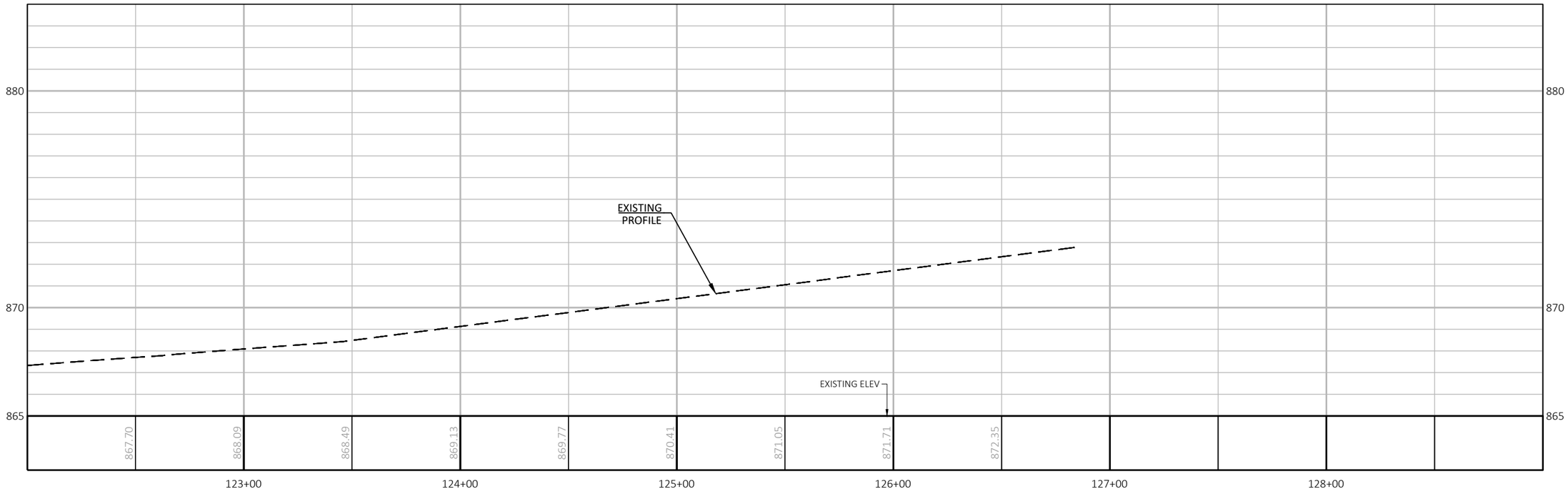
BENCHMARKS		
NO.	STATION	ELEV.
CP 10	120+69.29, 17.995' RT	---

PI STA = 120+67.43
DELTA = 12°07'28"
D = 2°30'00"
T = 243.40'
L = 484.98'
R = 2291.83'
PC STA = 118+24.03
PT STA = 123+09.01
SE = 4.0%

CTH D Mainline Alignment					
SUPERELEVATION TRANSITION EVENT POINTS		RATE			
LOCATION	STATION	LEFT OF CROWNLINE		RIGHT OF CROWNLINE	
		LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
Curve 2					
EndNormalShoulder	116+30.17'	-4.00%	-2.00%	-2.00%	-4.00%
EndNormalCrown	116+30.17'	-4.00%	-2.00%	-2.00%	-4.00%
LevelCrown	117+06.70'	-4.00%	-2.00%	.00%	-4.00%
ReverseCrown	117+83.22'	-4.00%	-2.00%	2.00%	-4.00%
LowShoulderMatch	118+59.74'	-4.00%	-4.00%	4.00%	-4.00%
BeginFullSuper	118+82.70'	-4.60%	-4.60%	4.60%	-4.00%
EndFullSuper	122+50.35'	-4.60%	-4.60%	4.60%	-4.00%
LowShoulderMatch	122+73.31'	-4.00%	-4.00%	4.00%	-4.00%
ReverseCrown	123+49.83'	-4.00%	-2.00%	2.00%	-4.00%
LevelCrown	124+26.35'	-4.00%	-2.00%	.00%	-4.00%
BeginNormalCrown	125+02.88'	-4.00%	-2.00%	-2.00%	-4.00%
BeginNormalShoulder	125+02.88'	-4.00%	-2.00%	-2.00%	-4.00%



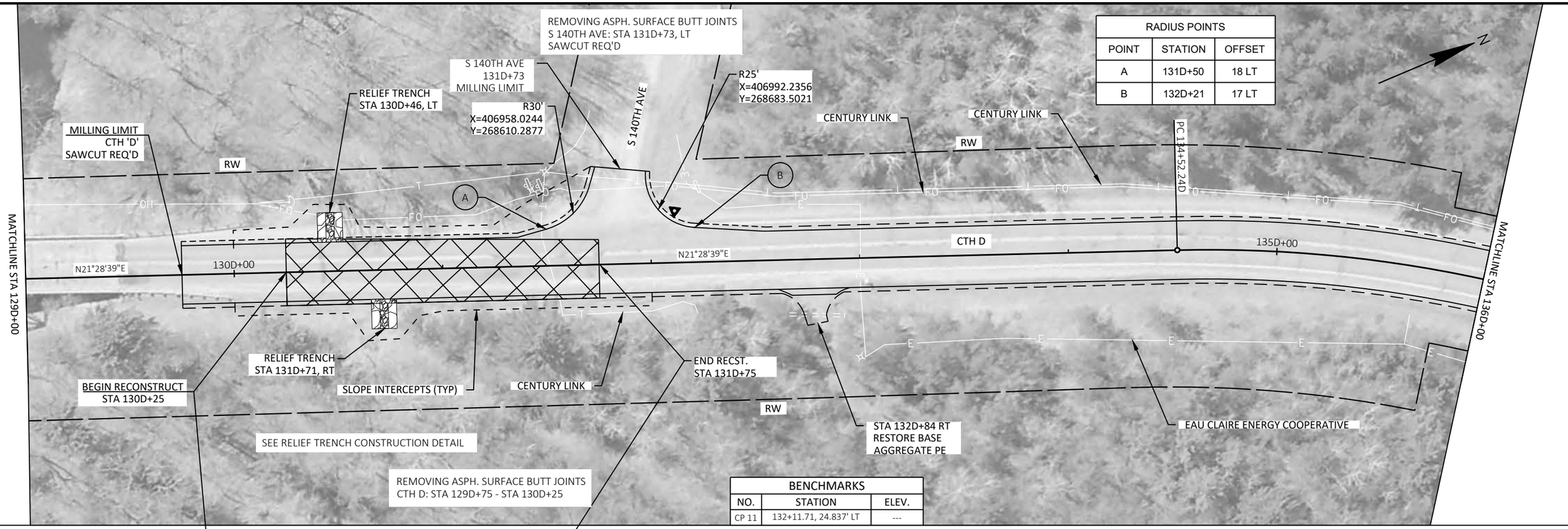
BENCHMARKS		
NO.	STATION	ELEV.
BM 15	126+84.27, 15.801' RT	873.55



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 85	E

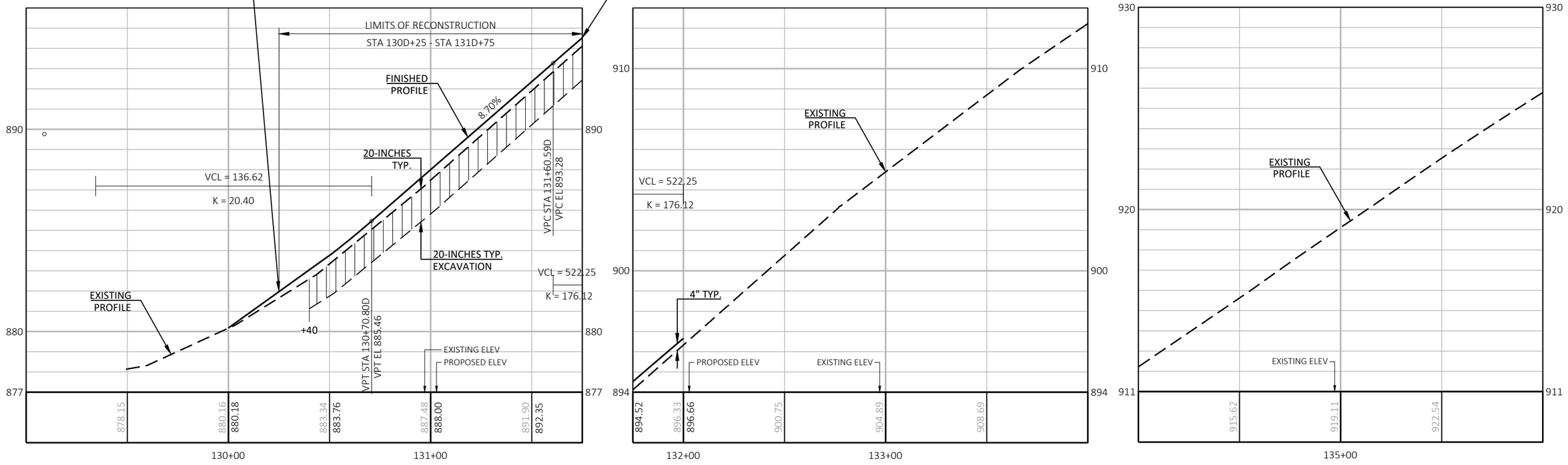
FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050117_pp

PLOT DATE : 11/10/2020 7:41 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:50 FT

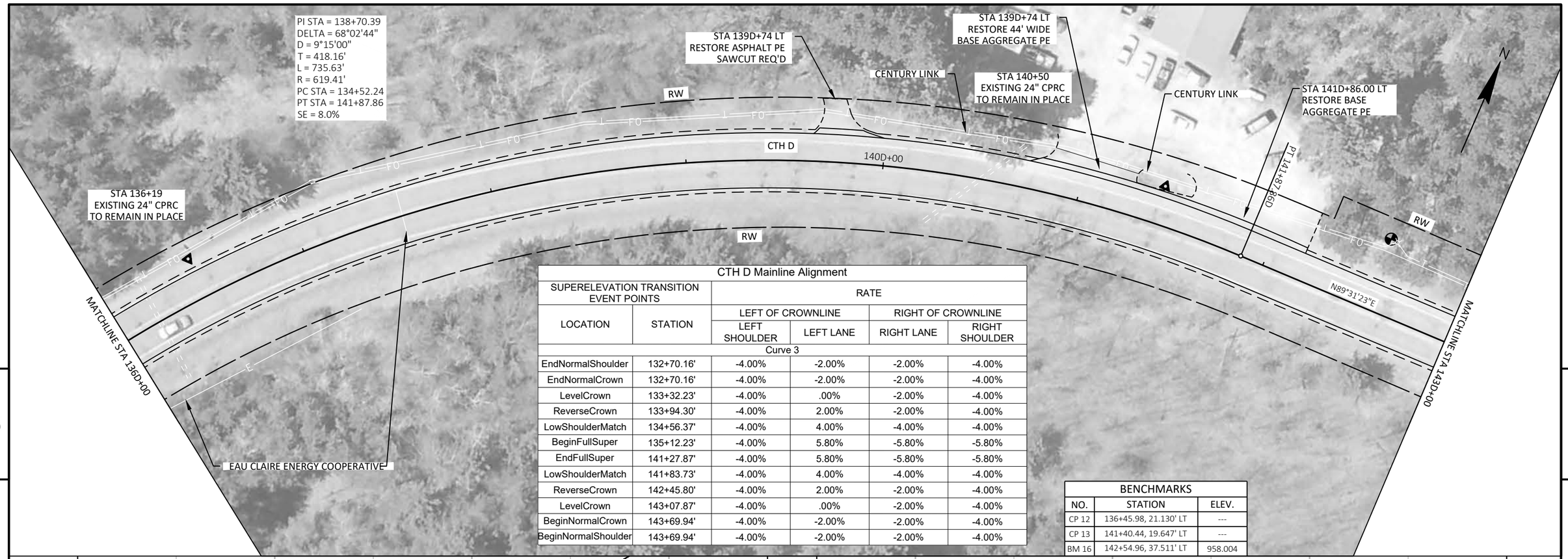


RADIUS POINTS		
POINT	STATION	OFFSET
A	131D+50	18 LT
B	132D+21	17 LT

BENCHMARKS		
NO.	STATION	ELEV.
CP 11	132+11.71, 24.837' LT	---

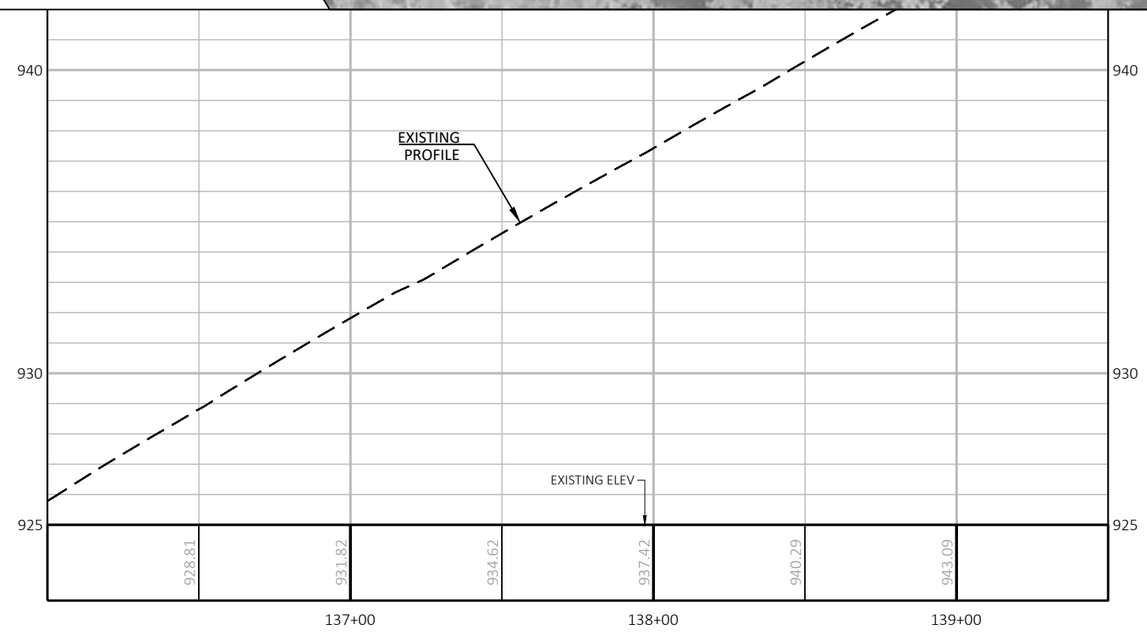


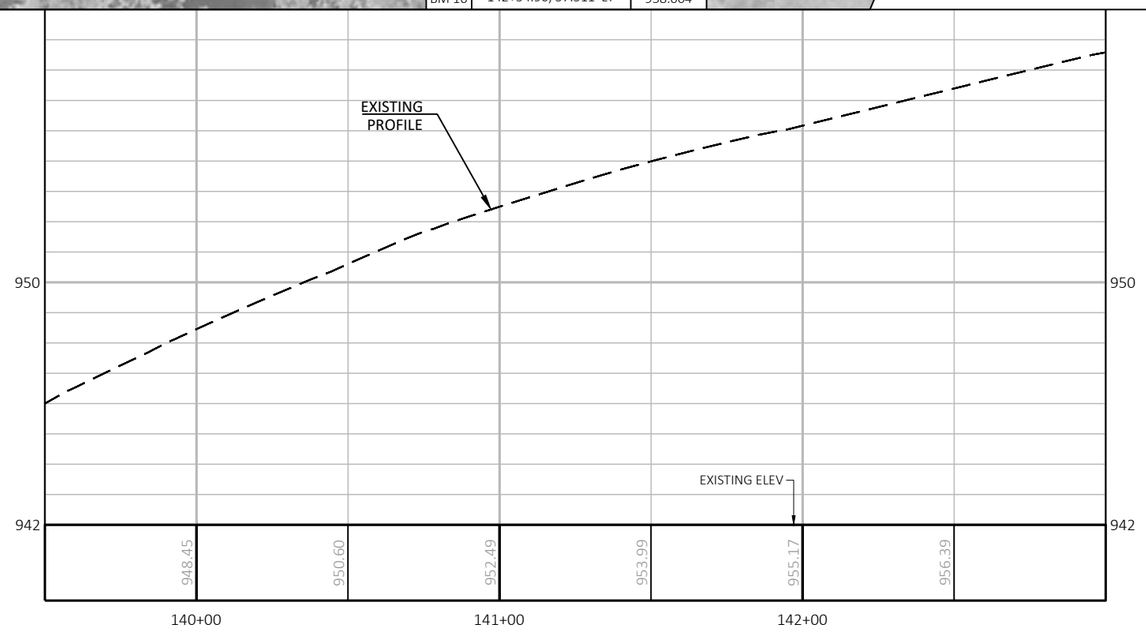
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 86	E



CTH D Mainline Alignment					
SUPERELEVATION TRANSITION EVENT POINTS		RATE			
LOCATION	STATION	LEFT OF CROWNLINE		RIGHT OF CROWNLINE	
		LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
Curve 3					
EndNormalShoulder	132+70.16'	-4.00%	-2.00%	-2.00%	-4.00%
EndNormalCrown	132+70.16'	-4.00%	-2.00%	-2.00%	-4.00%
LevelCrown	133+32.23'	-4.00%	.00%	-2.00%	-4.00%
ReverseCrown	133+94.30'	-4.00%	2.00%	-2.00%	-4.00%
LowShoulderMatch	134+56.37'	-4.00%	4.00%	-4.00%	-4.00%
BeginFullSuper	135+12.23'	-4.00%	5.80%	-5.80%	-5.80%
EndFullSuper	141+27.87'	-4.00%	5.80%	-5.80%	-5.80%
LowShoulderMatch	141+83.73'	-4.00%	4.00%	-4.00%	-4.00%
ReverseCrown	142+45.80'	-4.00%	2.00%	-2.00%	-4.00%
LevelCrown	143+07.87'	-4.00%	.00%	-2.00%	-4.00%
BeginNormalCrown	143+69.94'	-4.00%	-2.00%	-2.00%	-4.00%
BeginNormalShoulder	143+69.94'	-4.00%	-2.00%	-2.00%	-4.00%

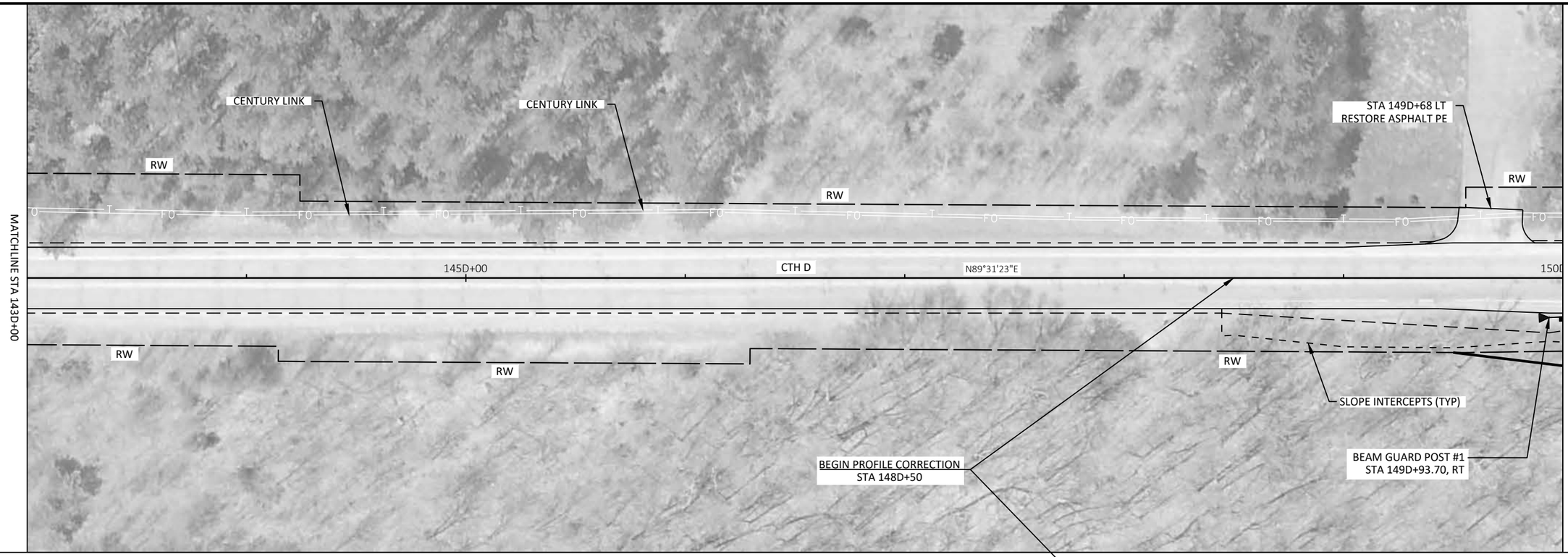
BENCHMARKS		
NO.	STATION	ELEV.
CP 12	136+45.98, 21.130' LT	---
CP 13	141+40.44, 19.647' LT	---
BM 16	142+54.96, 37.511' LT	958.004





PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 87	E

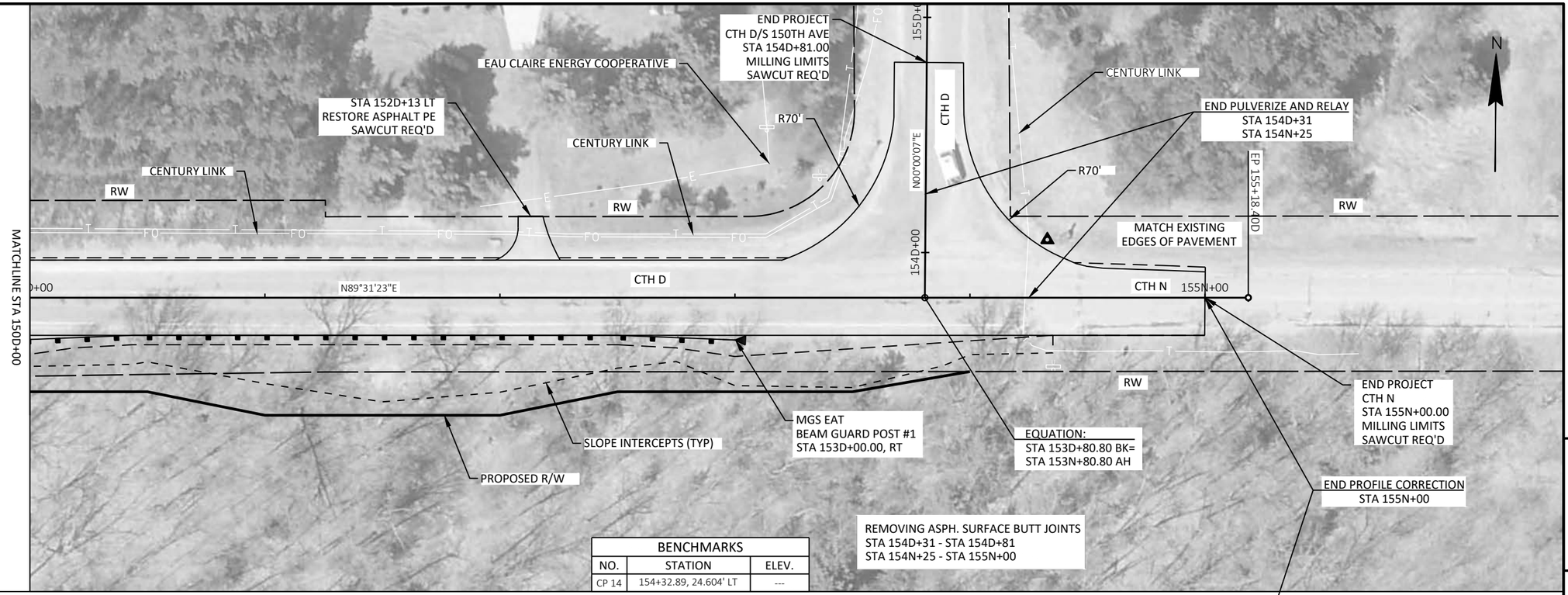
FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050119_pp
PLOT DATE : 11/10/2020 7:41 AM
PLOT BY : MICHAEL W. BUCCELLI
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



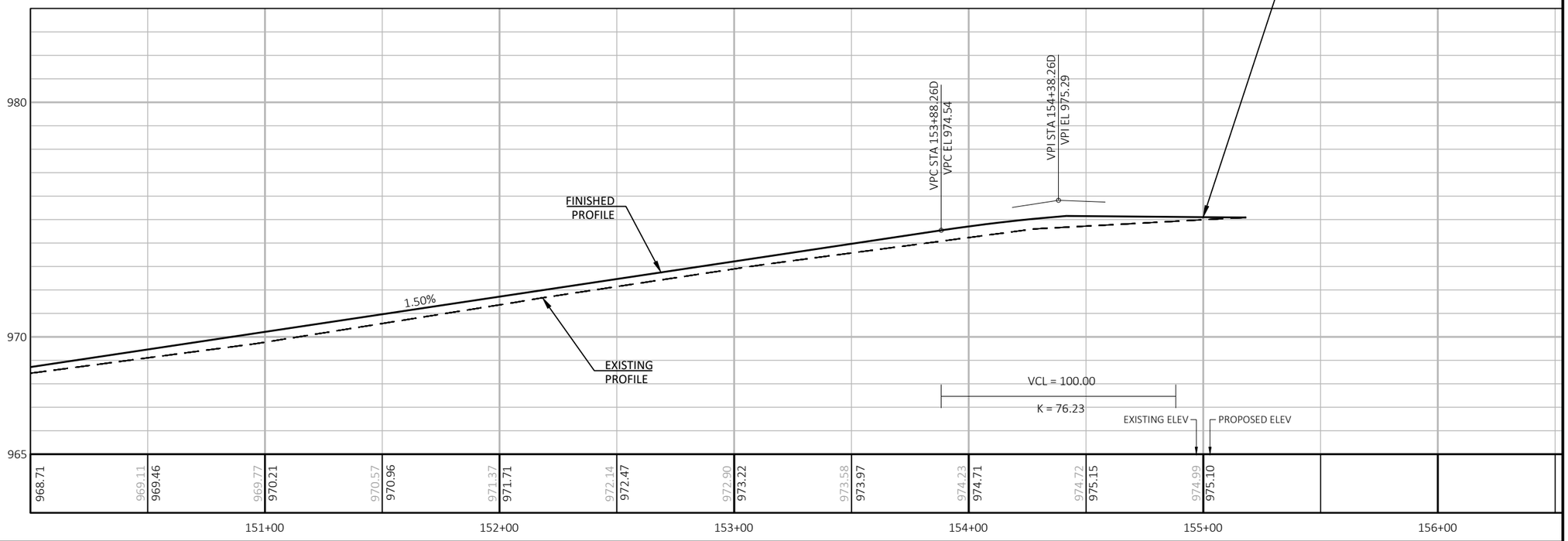
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 88	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 050120_pp

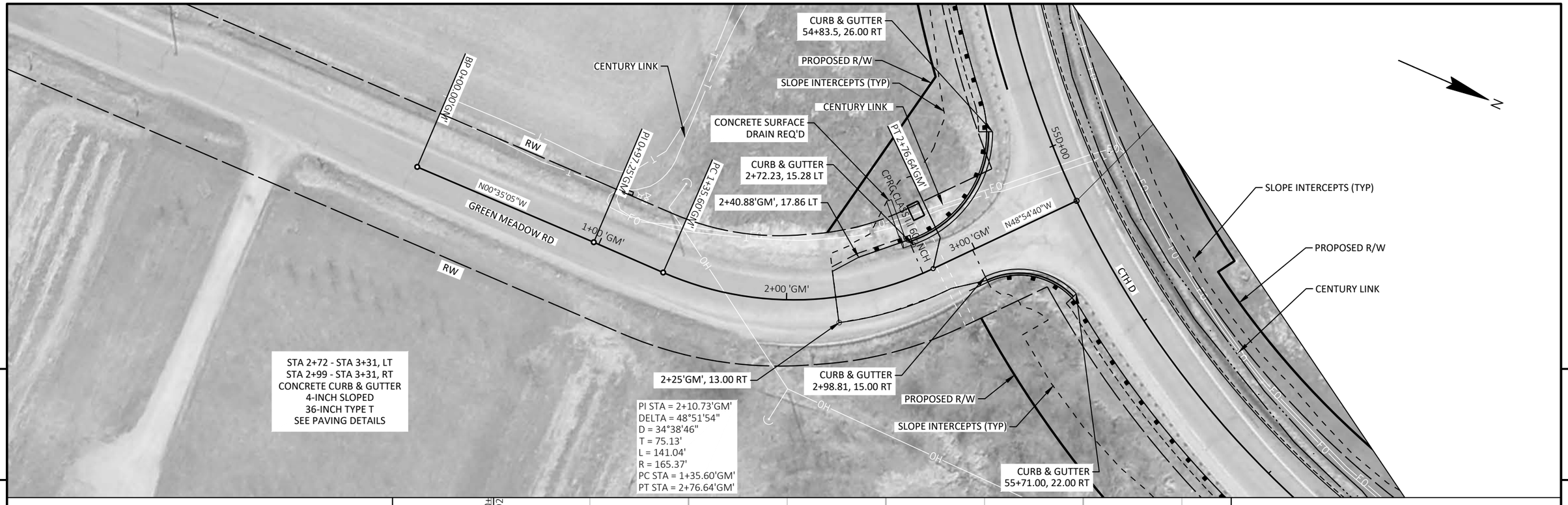
PLOT DATE : 11/10/2020 7:41 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:50 FT

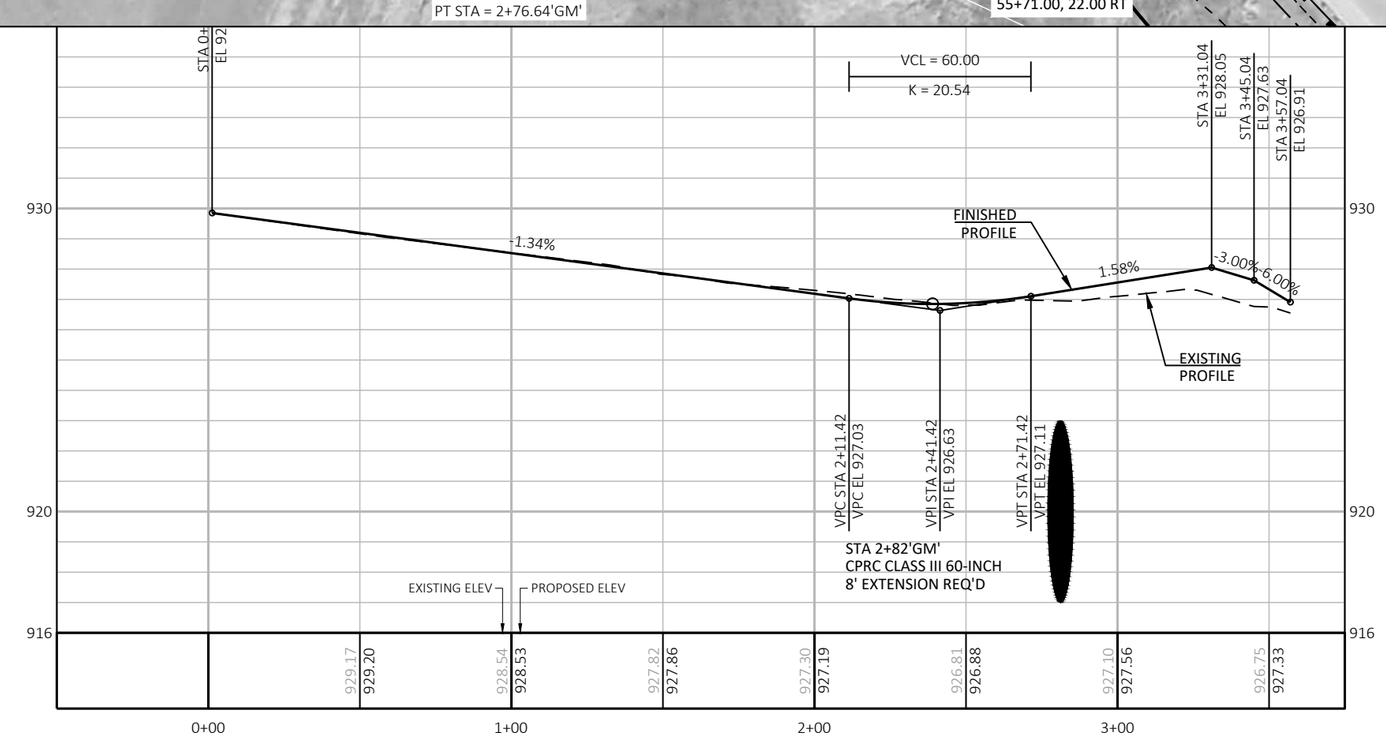


BENCHMARKS		
NO.	STATION	ELEV.
CP 14	154+32.89, 24.604' LT	---



PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: CTH D	SHEET 89	E



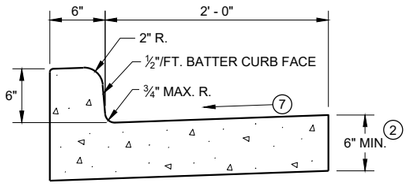


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	PLAN AND PROFILE: GREEN MEADOW	SHEET 90	E

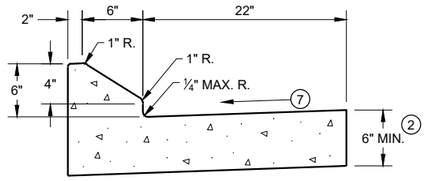
Standard Detail Drawing List

08D01-21A	CONCRETE CURB & GUTTER
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13C19-03	HMA LONGITUDINAL JOINTS
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B53-01A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D45-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL

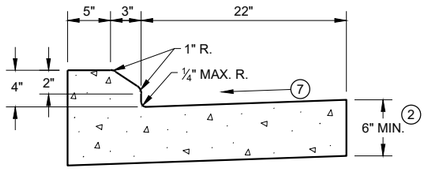
6



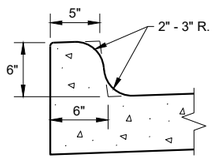
TYPES A (1) & D



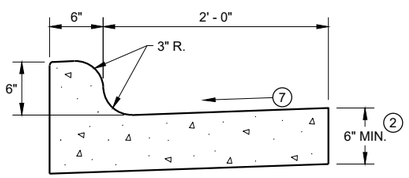
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

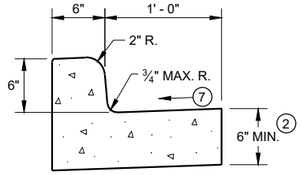


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



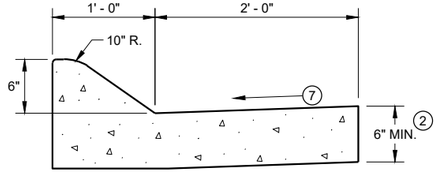
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

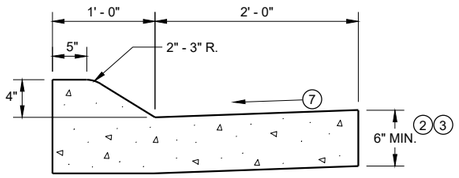


TYPES A (1) & D

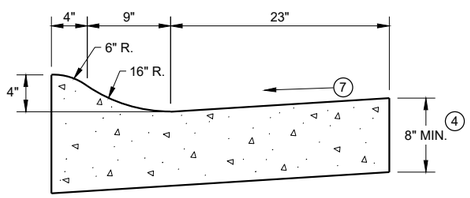
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D



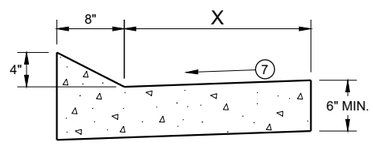
4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB AND GUTTER 36"

TBT & TBTT	X
30"	22"
36"	28"

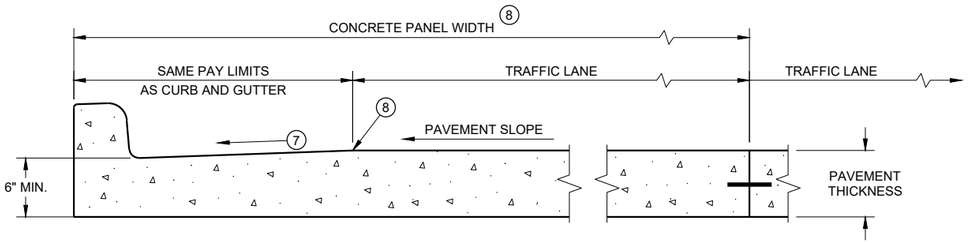


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

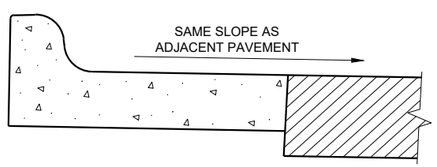
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

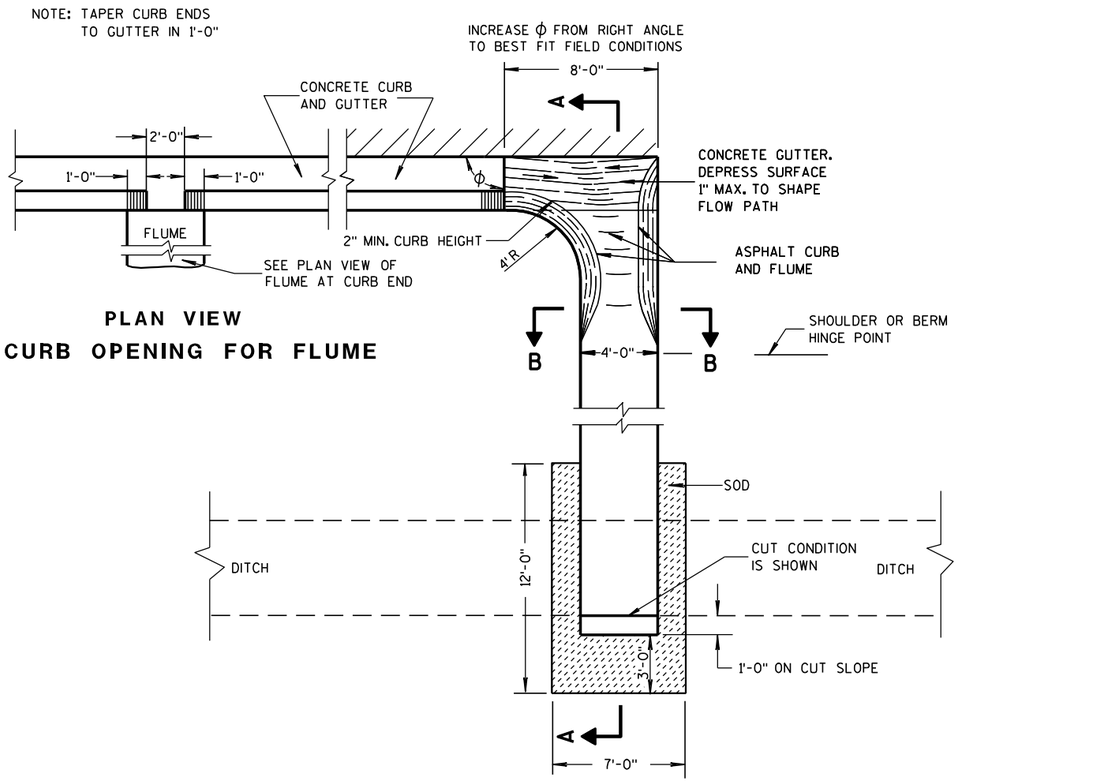
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

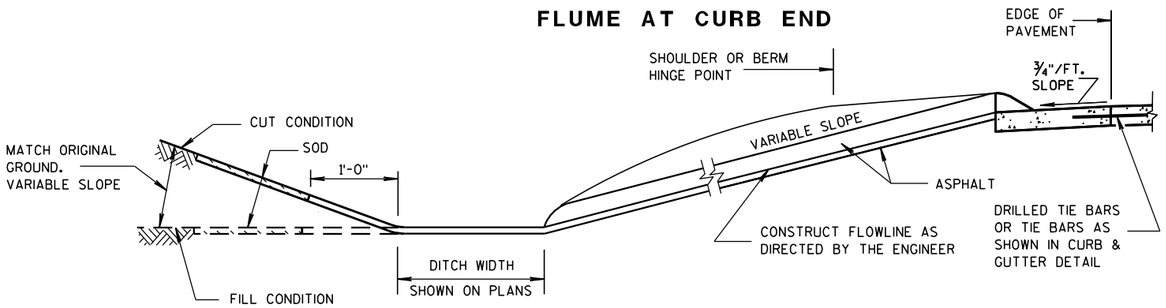
SDD 08D01 - 21a

ASPHALTIC FLUME

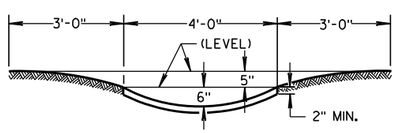


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

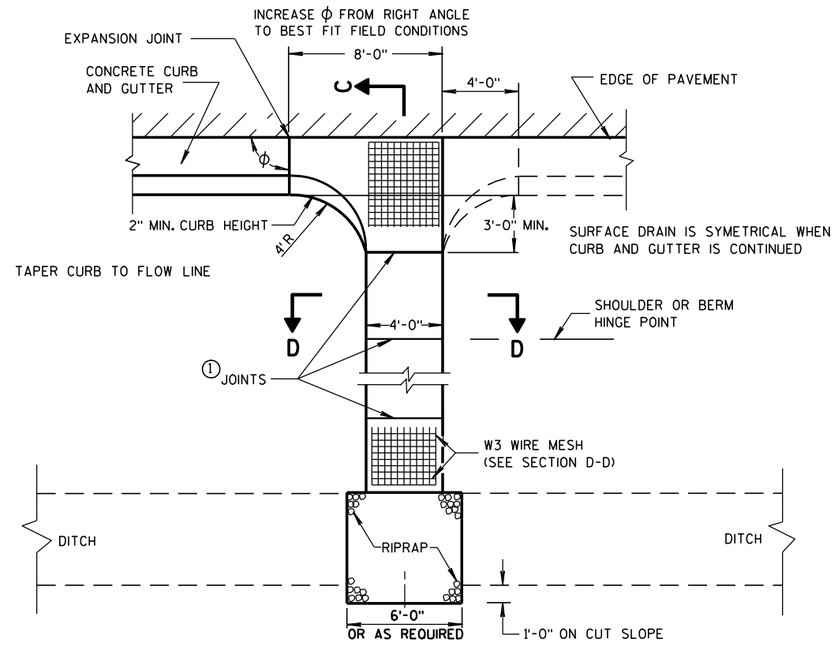
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

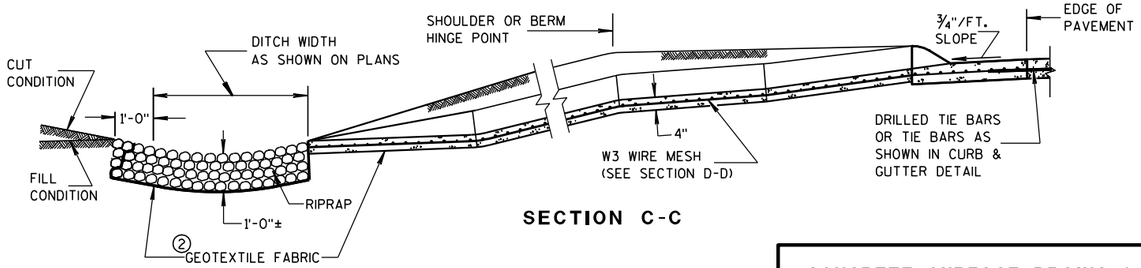
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

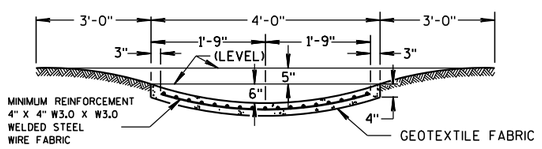
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

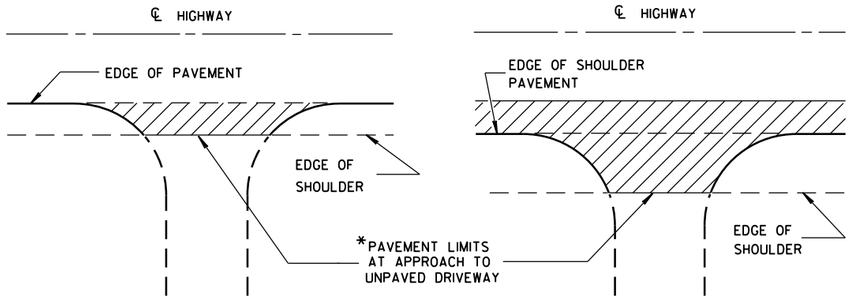
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
93
MENT
FHWA

6

S.D.D. 8 D 4-5

6

S.D.D. 8 D 4-5

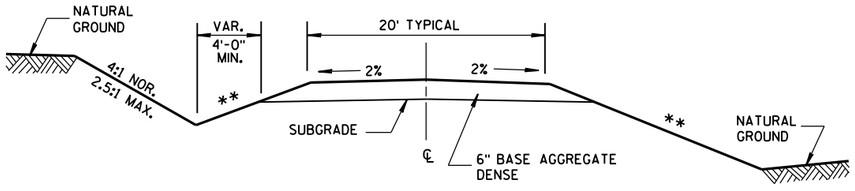


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB & GUTTER OR SIDEWALK)

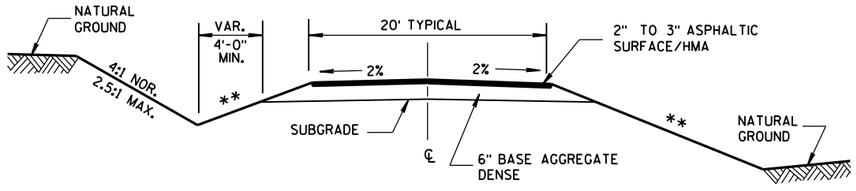


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

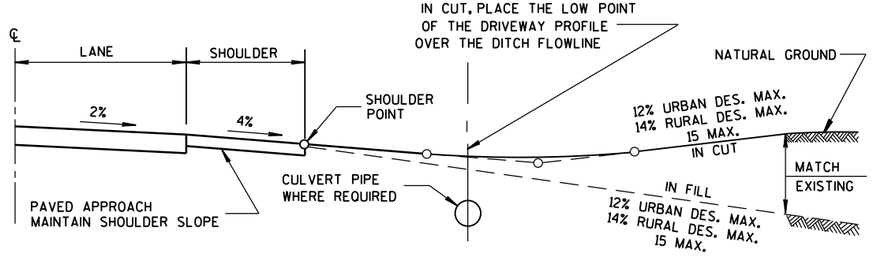
** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥35 TO <60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE



TYPICAL DRIVEWAY PROFILES

DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

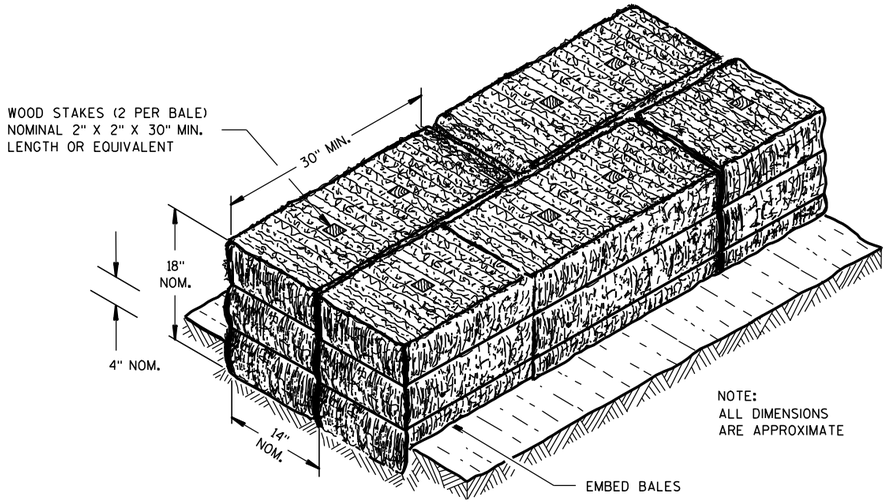
APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
FHWA

6

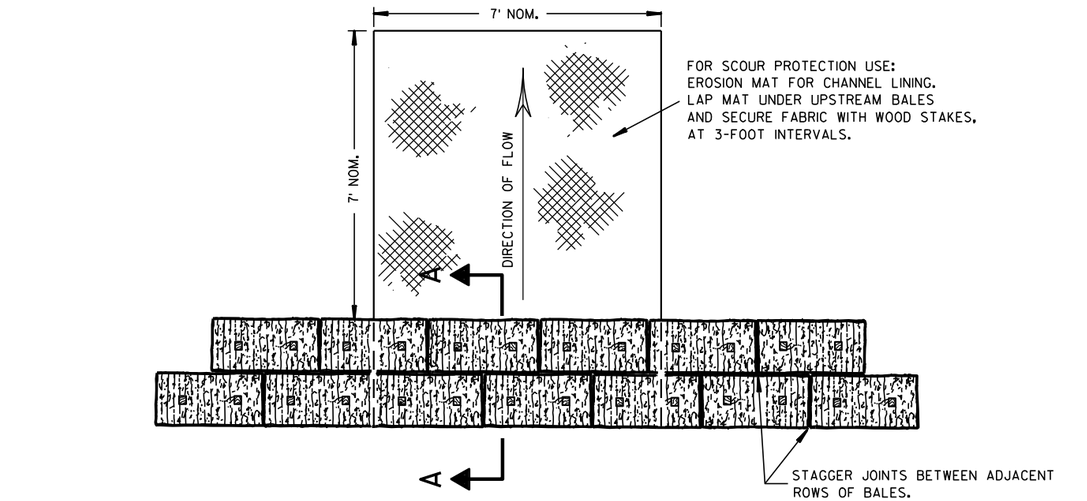
S.D.D. 8 D 21-1

6

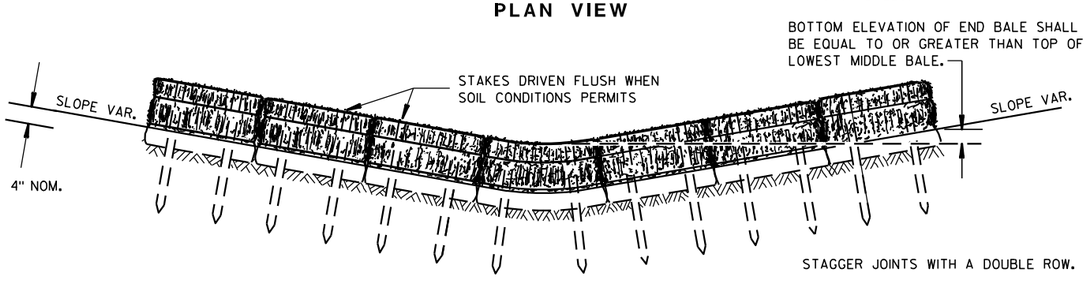
S.D.D. 8 D 21-1



SECTION A-A



PLAN VIEW



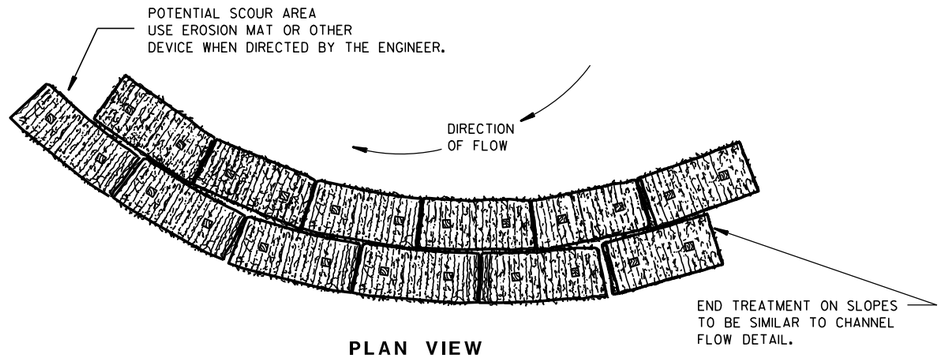
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

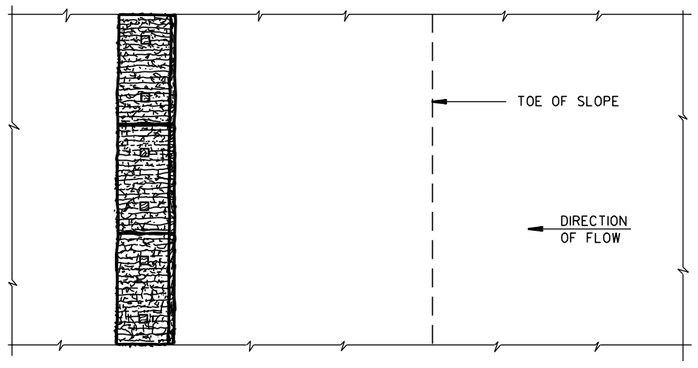
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) 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.

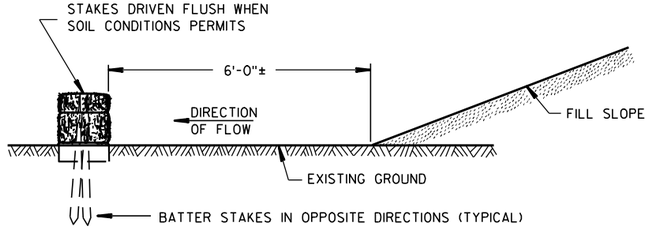


PLAN VIEW

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

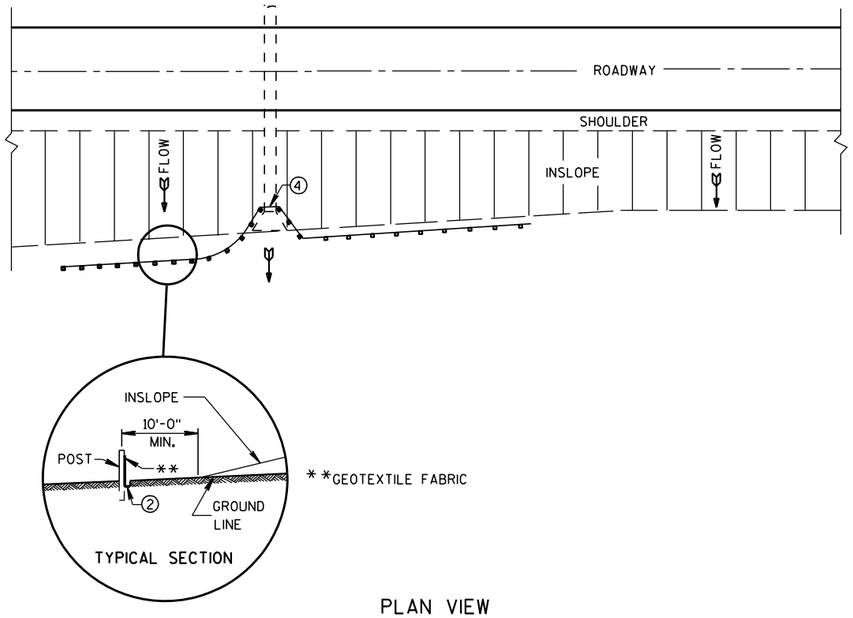
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

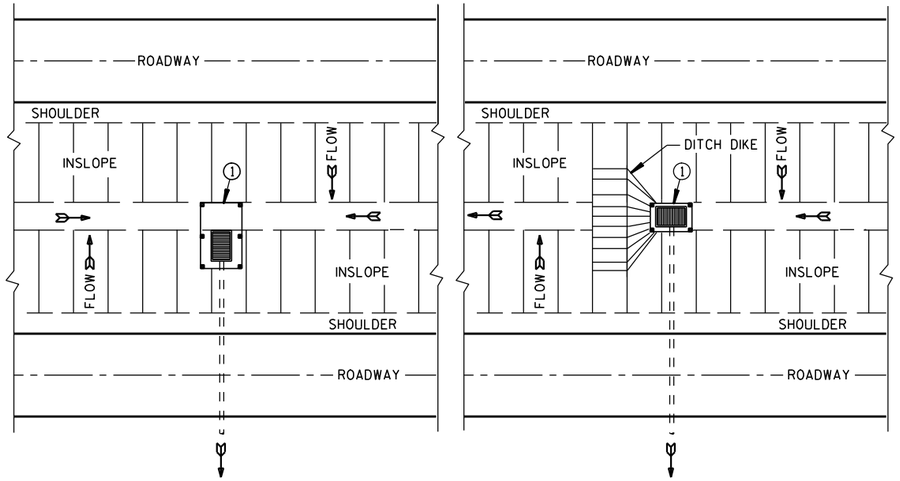
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



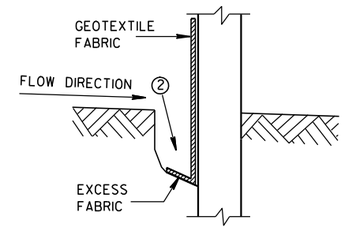
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

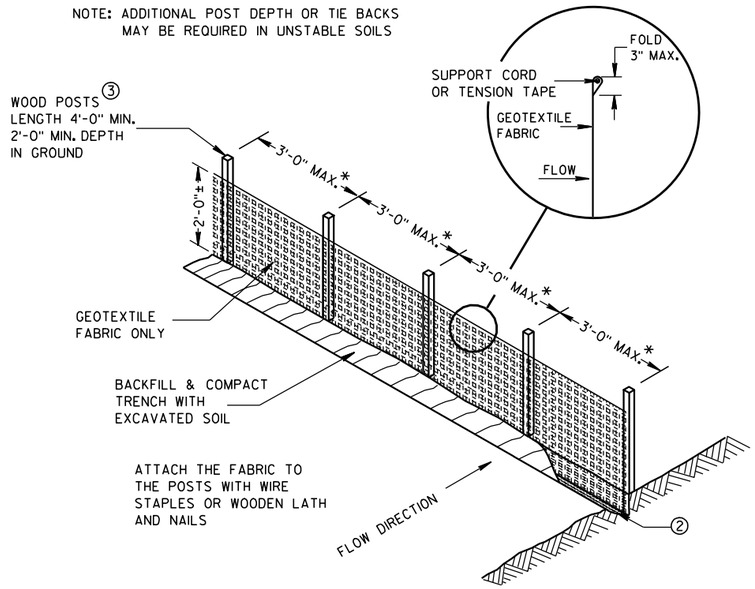
GENERAL NOTES

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

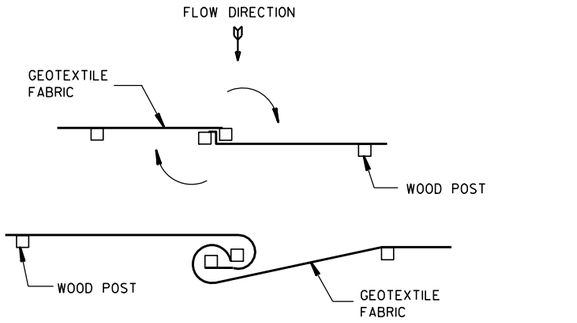
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" 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.



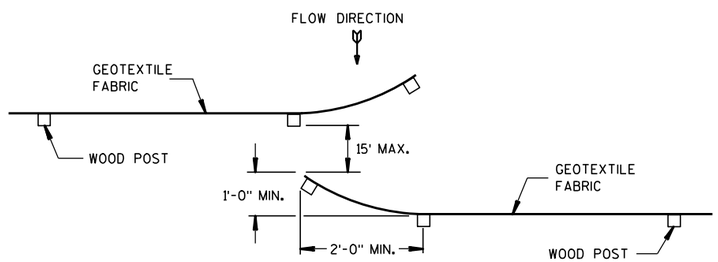
TRENCH DETAIL



SILT FENCE

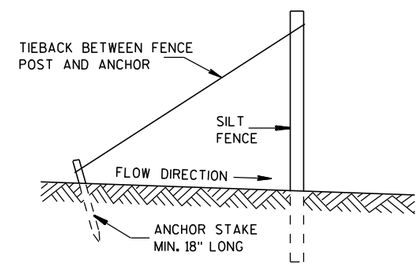


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

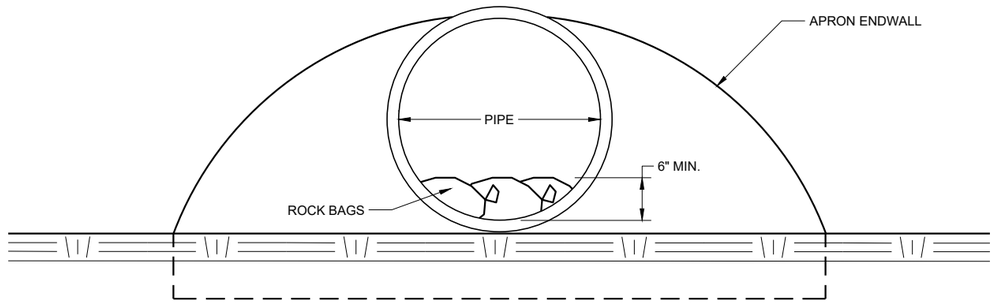
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

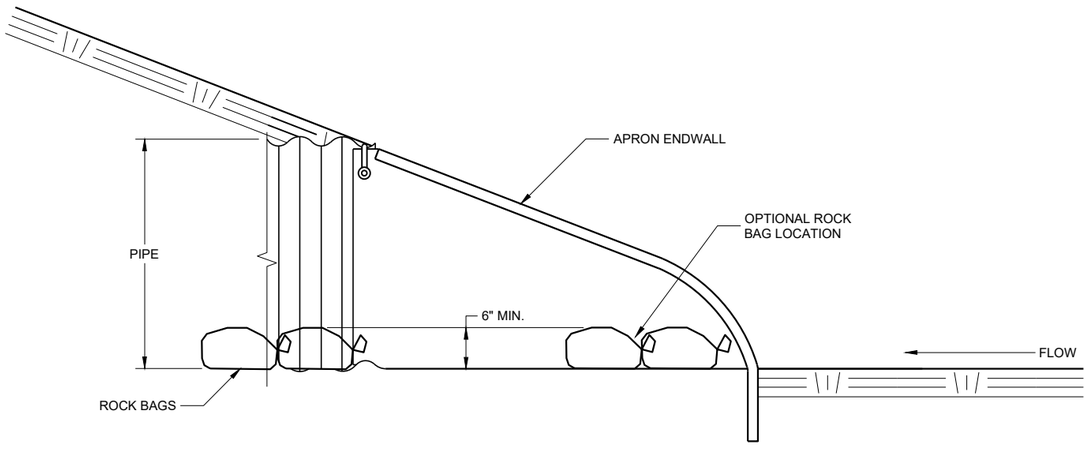
S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Daniel Schave
EROSION CONTROL ENGI

FHWA

6

SDD 08E15 - 01

6

SDD 08E15 - 01

METAL APRON ENDWALLS

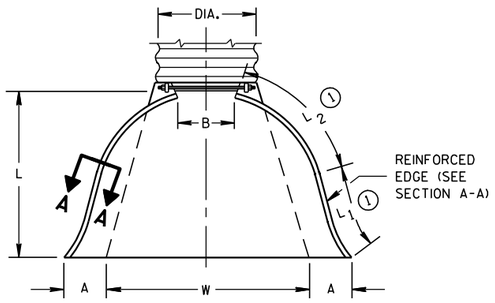
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 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	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

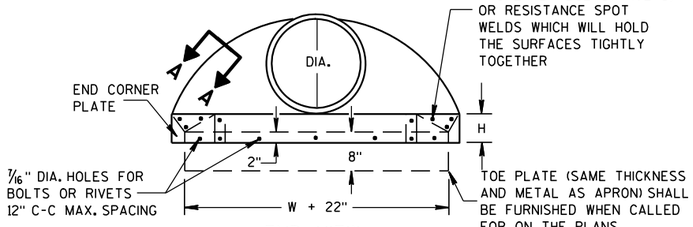
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

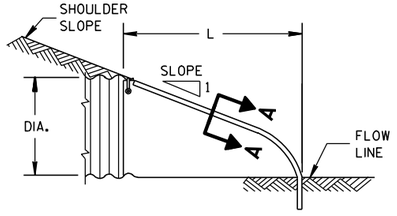
*MINIMUM
**MAXIMUM



PLAN VIEW

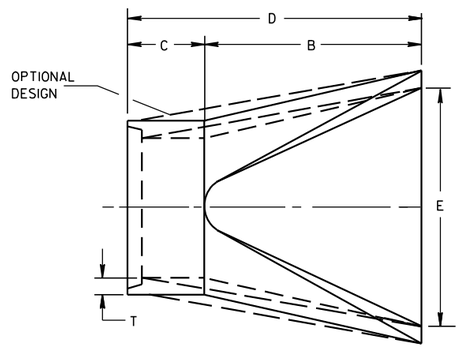


END VIEW

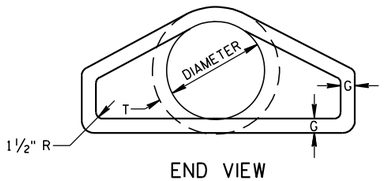


SIDE ELEVATION

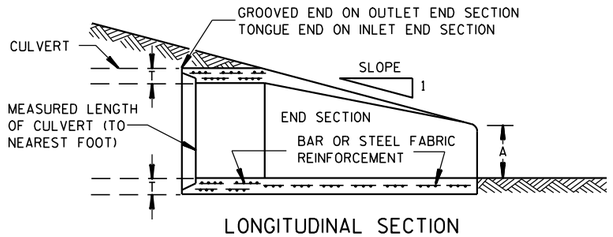
METAL ENDWALLS



PLAN

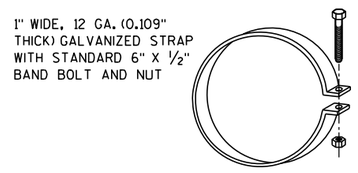


END VIEW



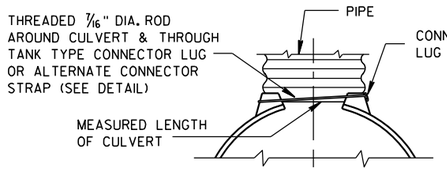
LONGITUDINAL SECTION

CONCRETE ENDWALLS

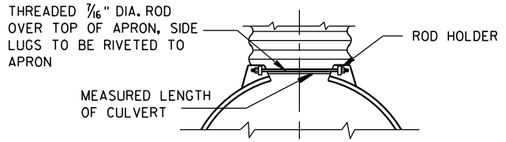


ALTERNATE FOR TYPE 1 CONNECTION

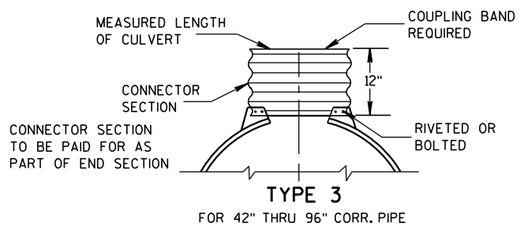
END SECTION CONNECTOR STRAP



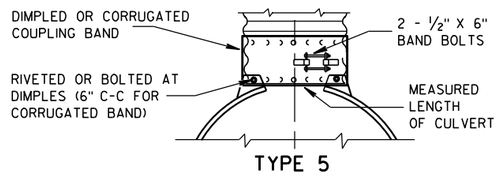
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

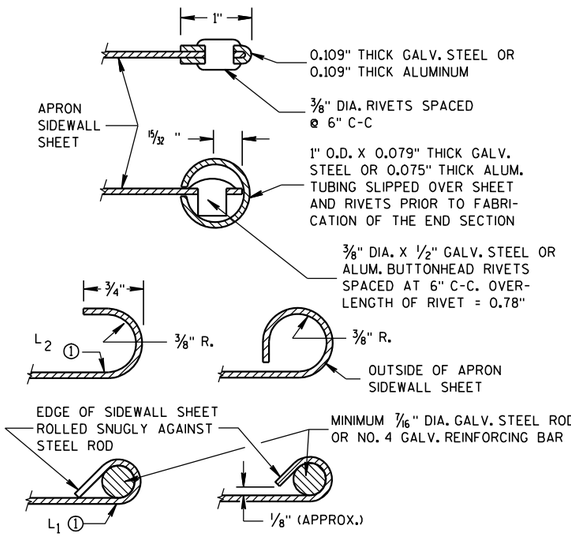
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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.

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 PERIMETER.

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

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

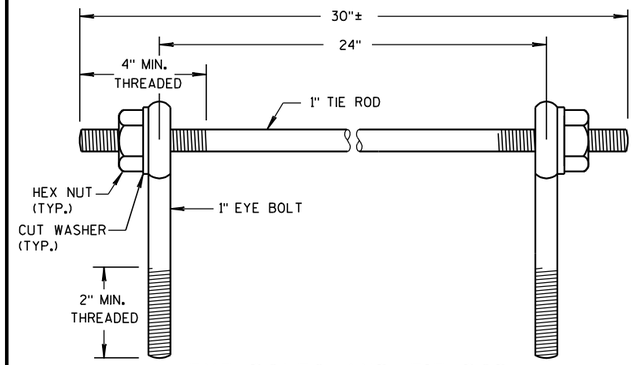
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

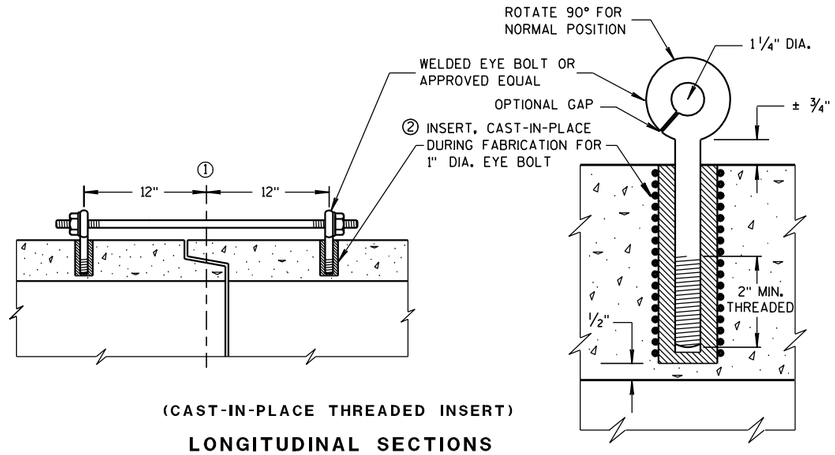
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

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.

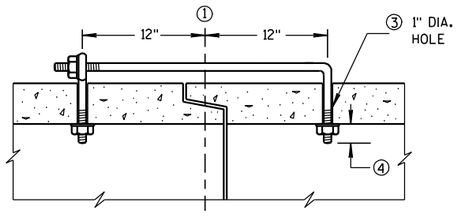
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

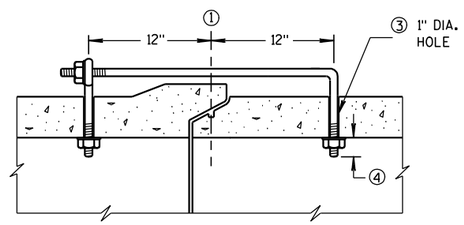
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

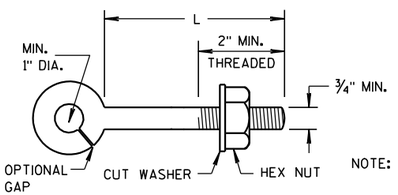


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

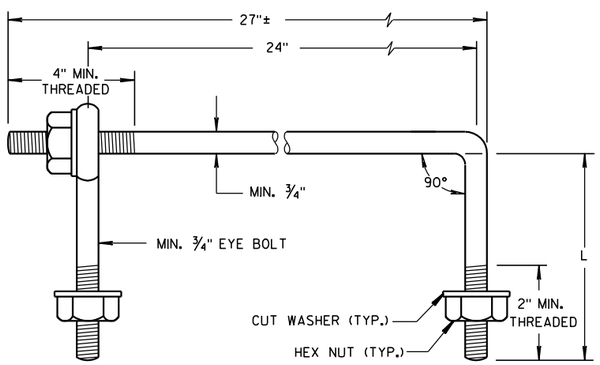
EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

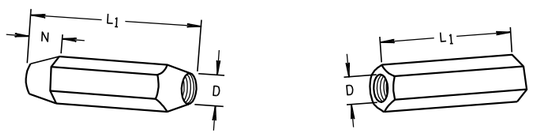
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

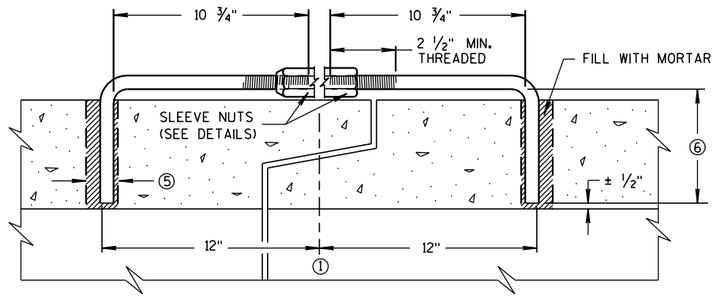
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

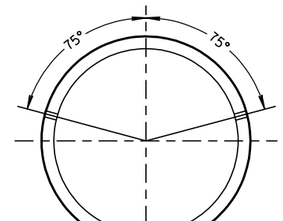
SLEEVE NUTS



LONGITUDINAL SECTION

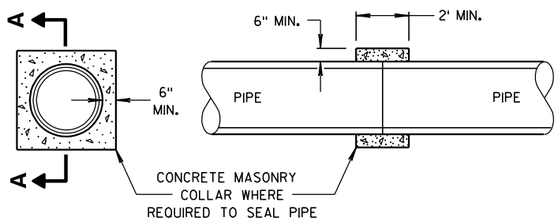
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE 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

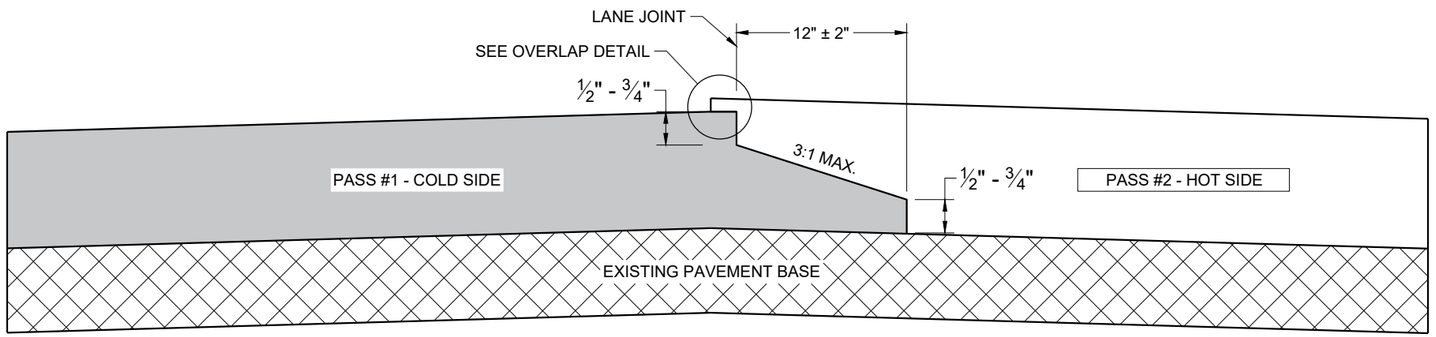
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS 99 ENGINEER
'MENT
FHWA

6

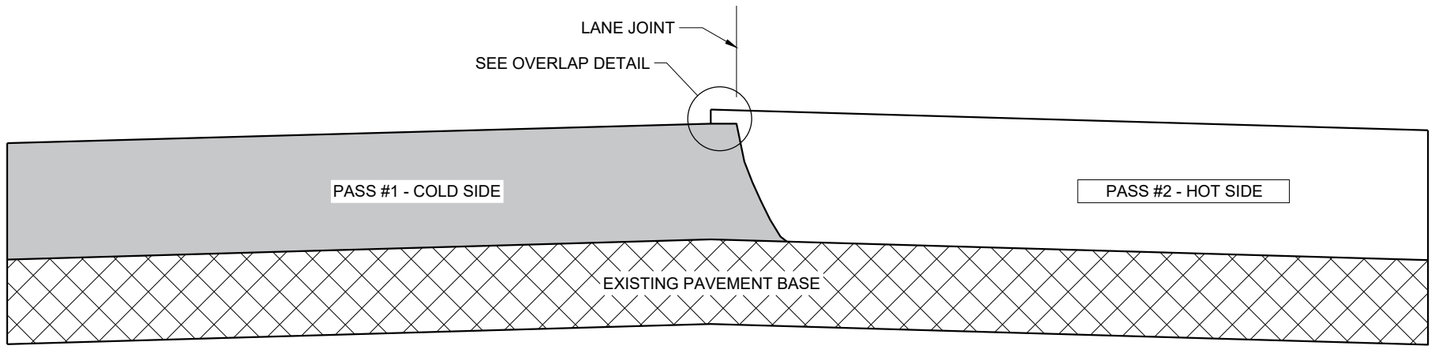
S.D.D. 8 F 4-7

6

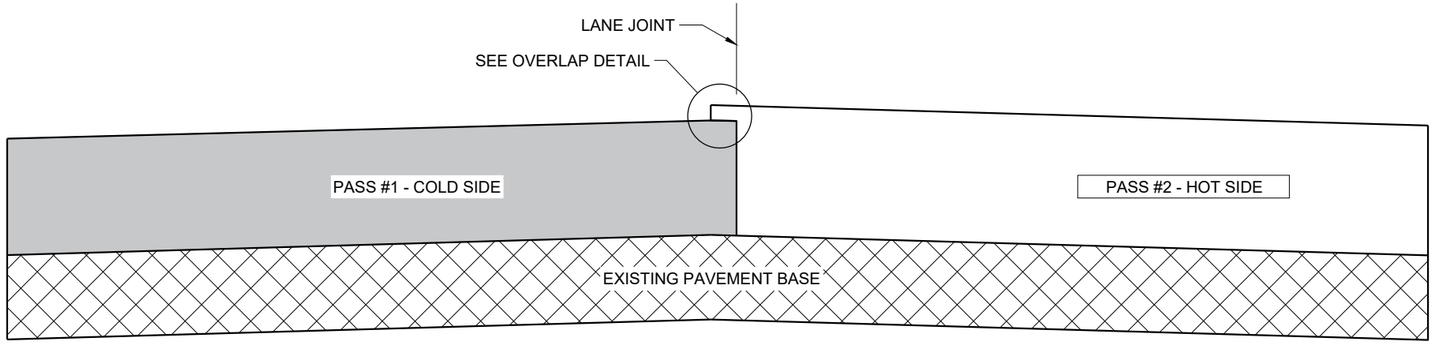
S.D.D. 8 F 4-7



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

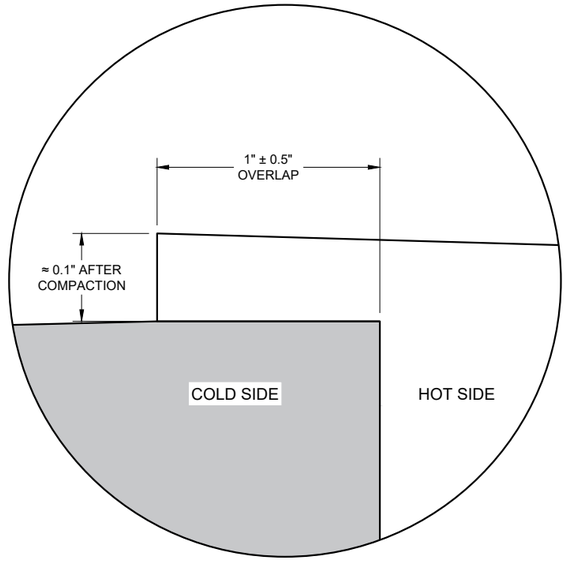
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGIN

FHWA

SDD 13C19 - 03

SDD 13C19 - 03

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

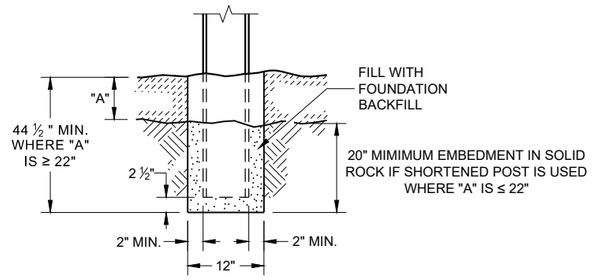
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

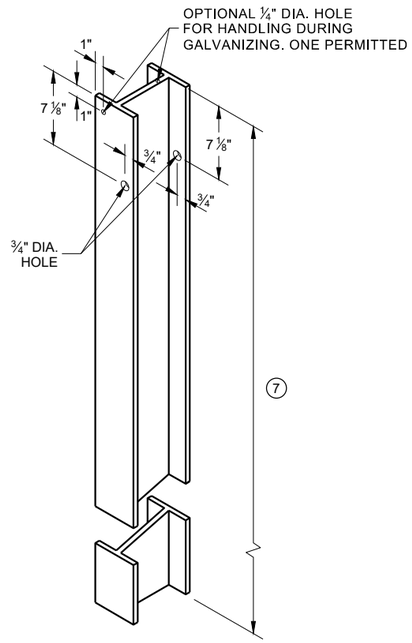
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

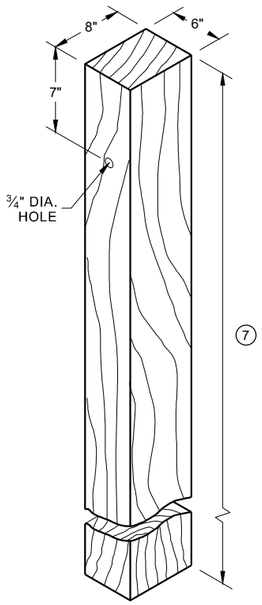
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



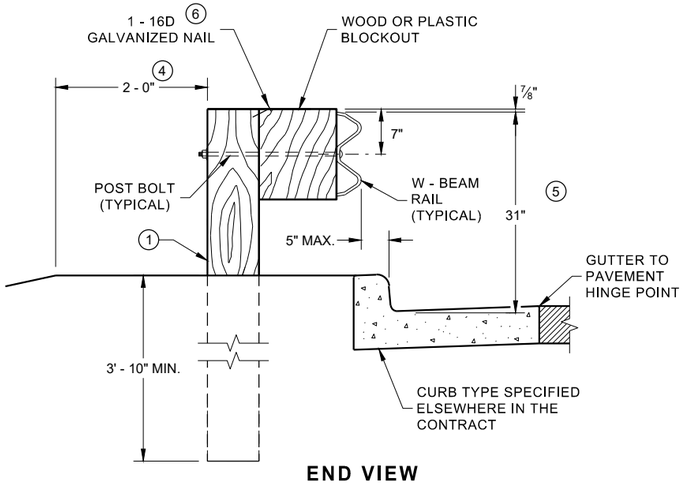
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



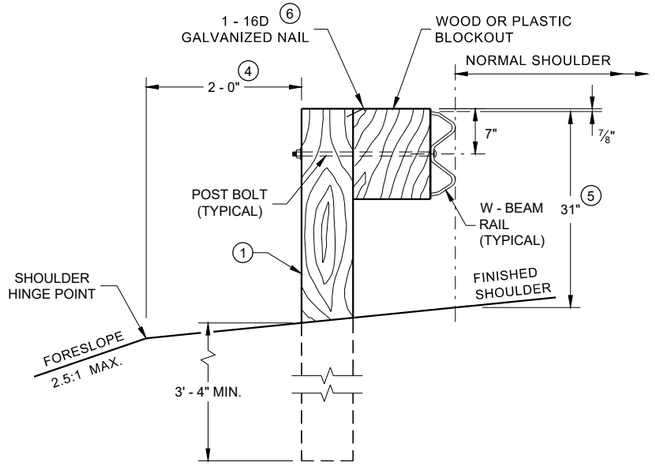
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



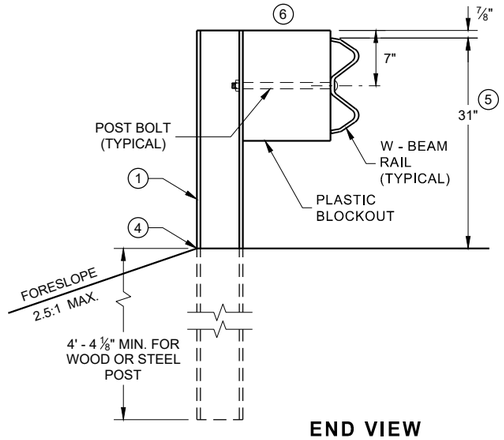
WOOD POST (6" X 8") NOMINAL (1)



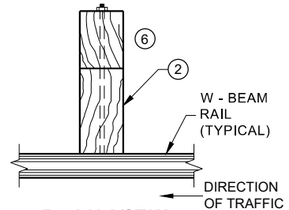
END VIEW
LOCATED ALONG A CURBED ROADWAY



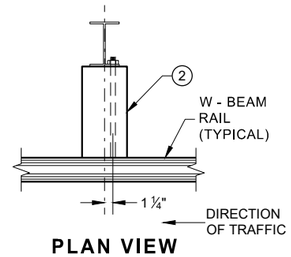
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



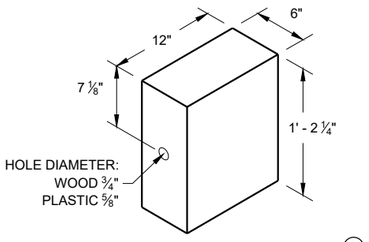
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



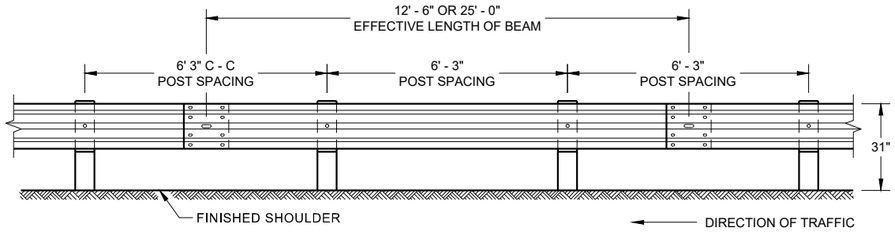
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

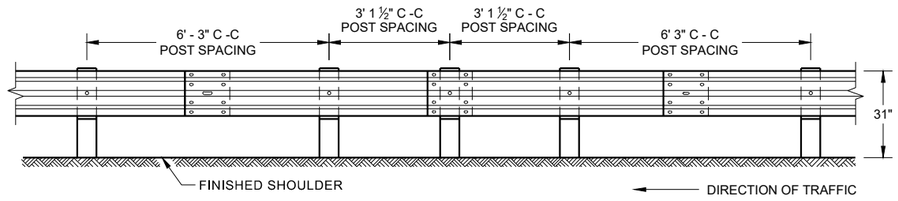
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 06a

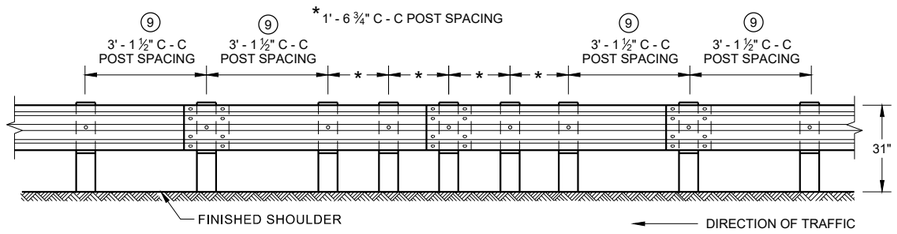
SDD 14B42 - 06a



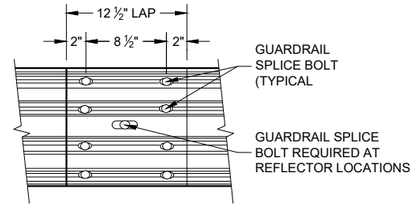
FRONT VIEW
POST SPACING STANDARD INSTALLATION



FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

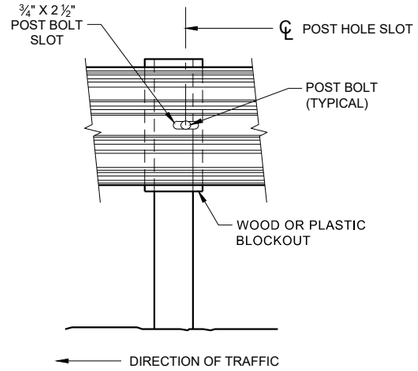
GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

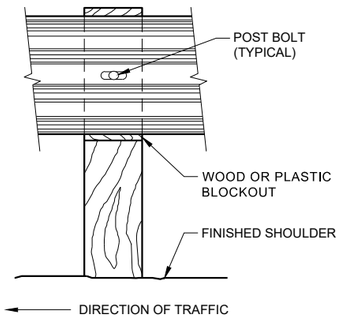
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

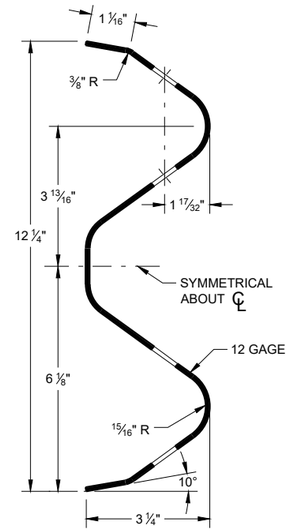
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



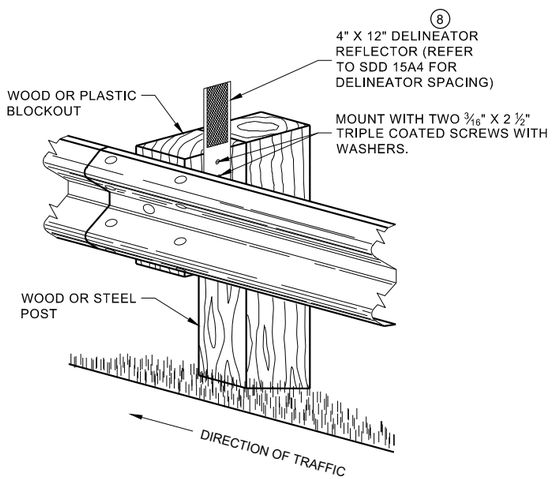
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL

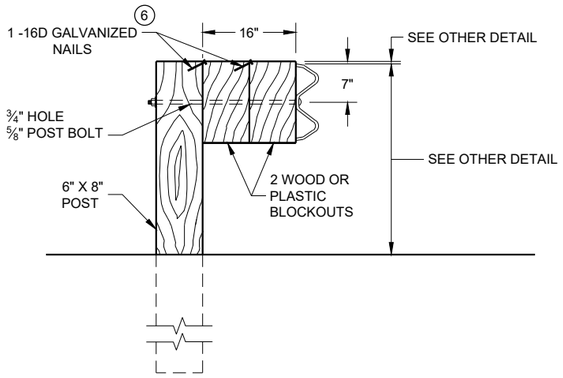


ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

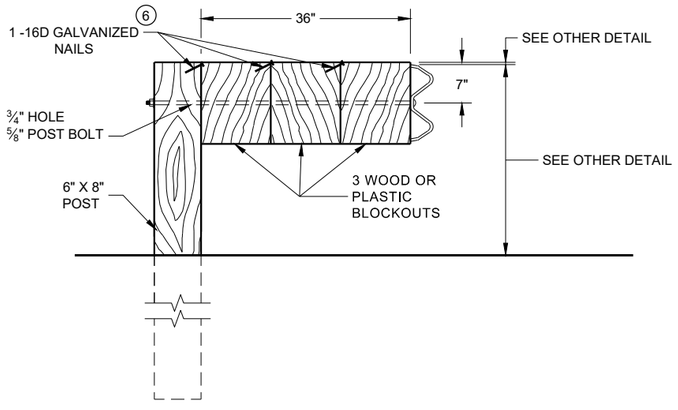
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B42 - 06b



DETAIL FOR 16" BLOCKOUT DEPTH

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



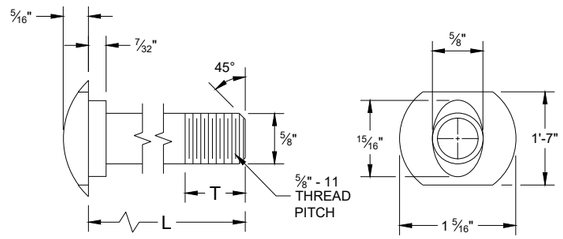
DETAIL FOR 36" BLOCKOUT DEPTH

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

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

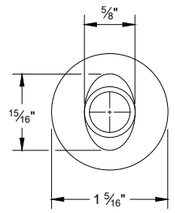
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

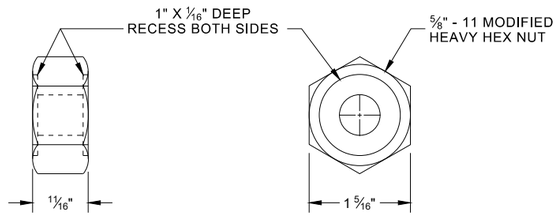


POST BOLT TABLE

L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"

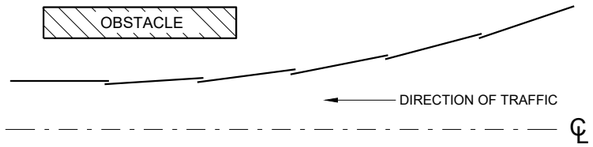


ALTERNATE BOLT HEAD

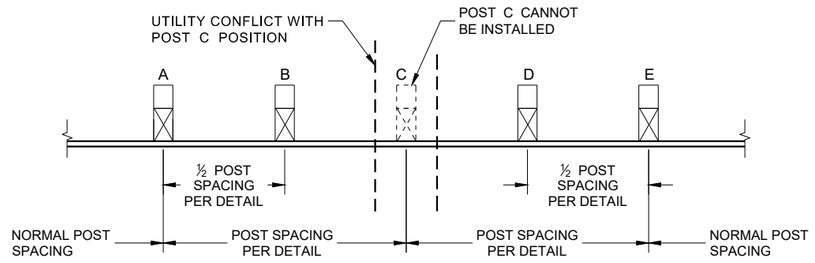


POST BOLT, SPLICE BOLT AND RECESS NUT

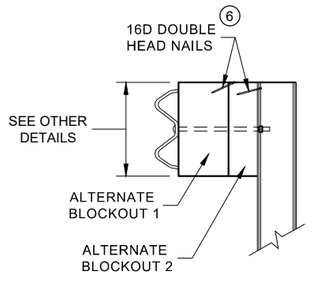
6 WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



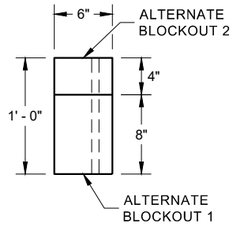
PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

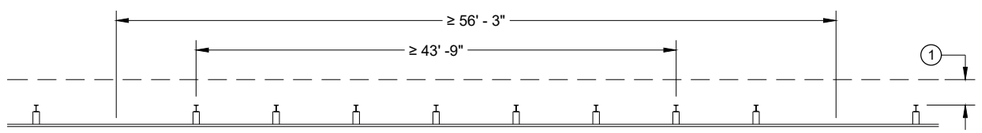
SDD 14B42 - 06c

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

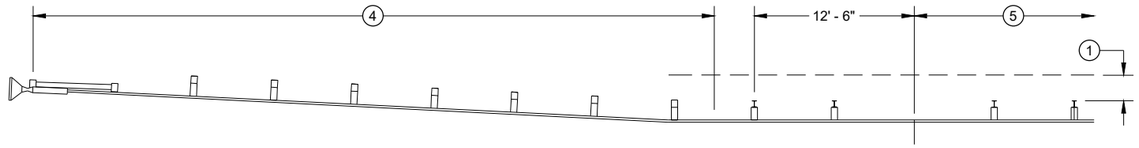
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA 103

SDD 14B42 - 06c

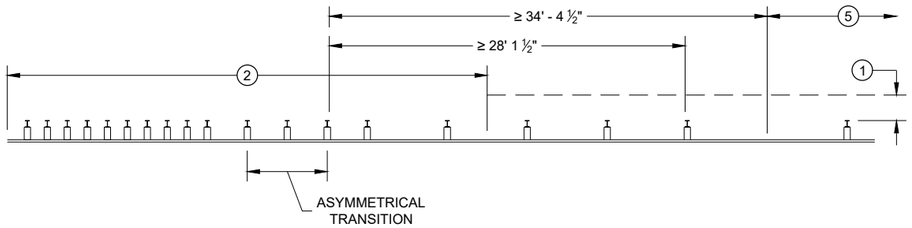
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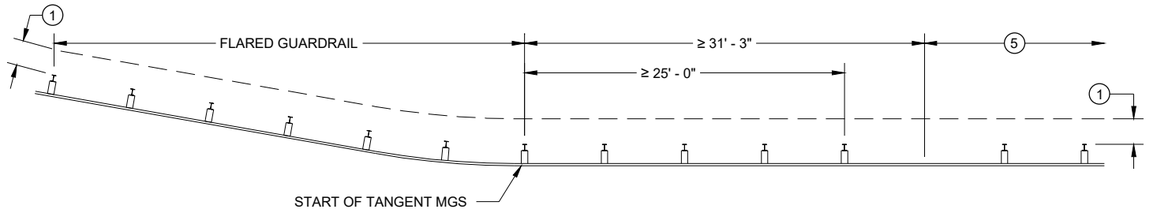
MISSING POST IN NORMAL BEAM GUARD RUN



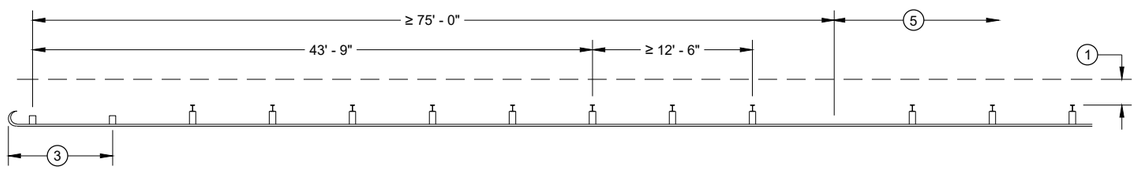
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



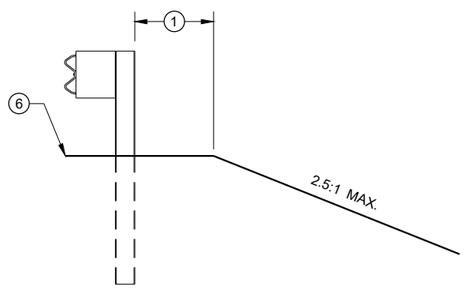
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

SDD 14B42 - 06d

SDD 14B42 - 06d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

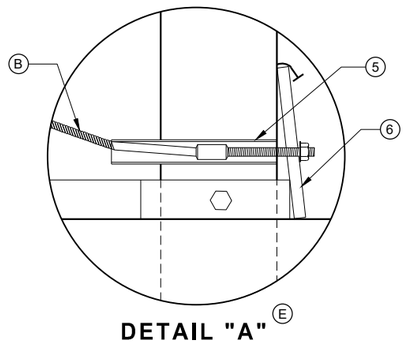
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

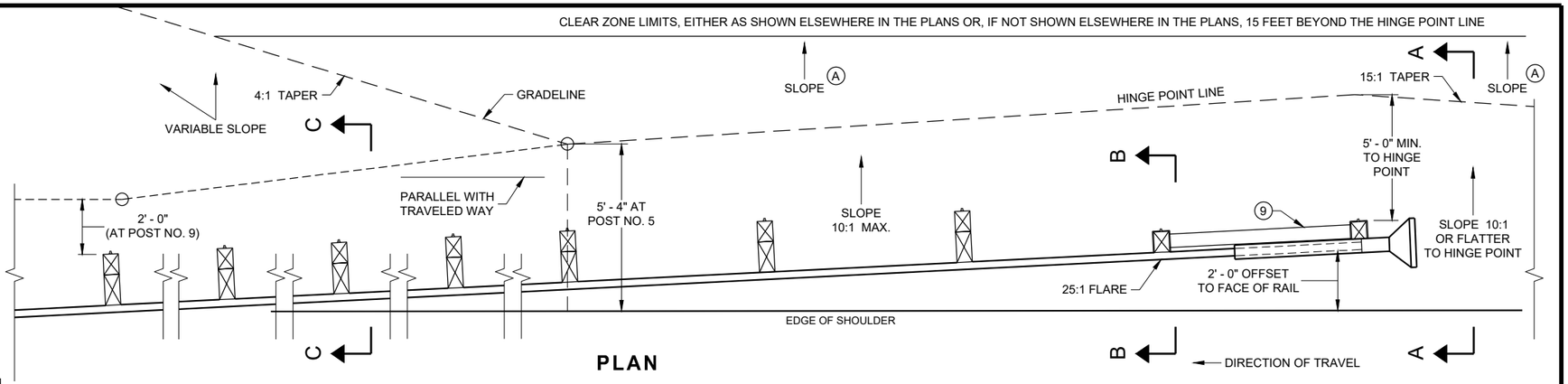
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

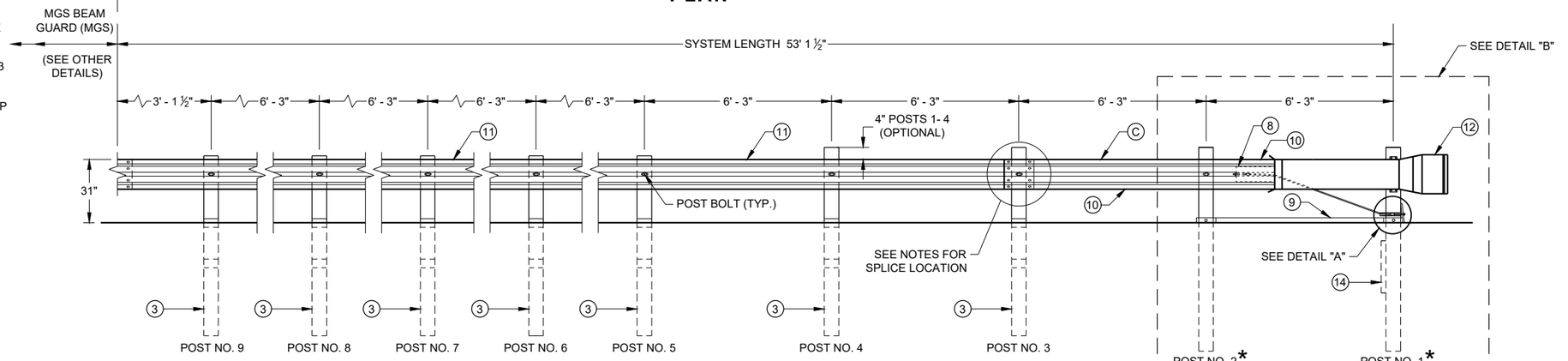
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



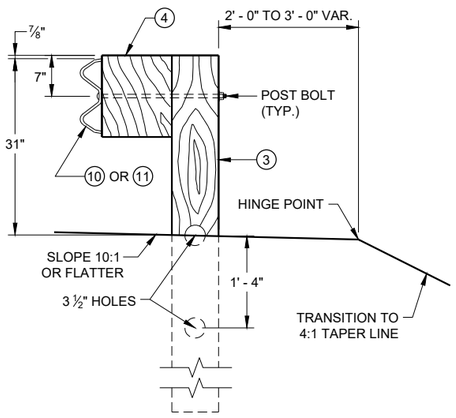
DETAIL "A" (E)



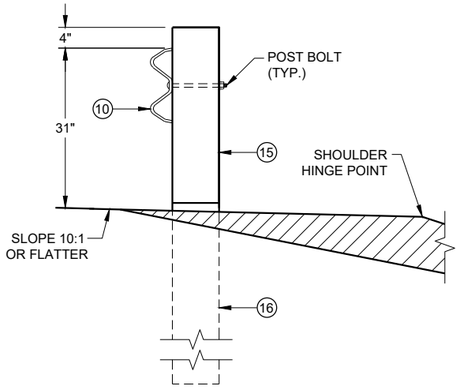
PLAN



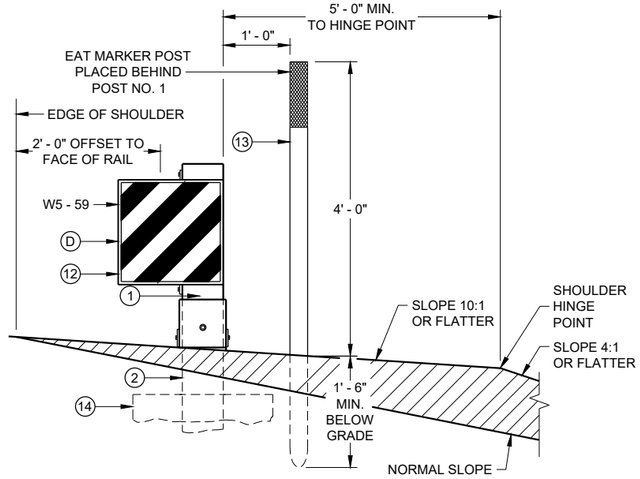
ELEVATION



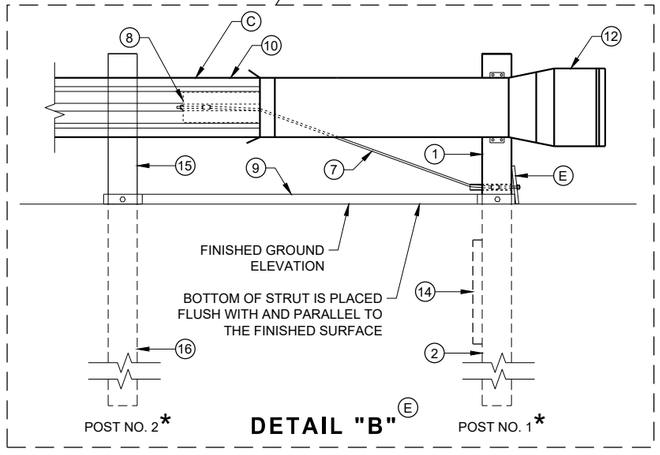
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



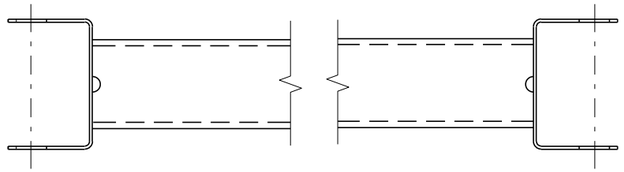
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

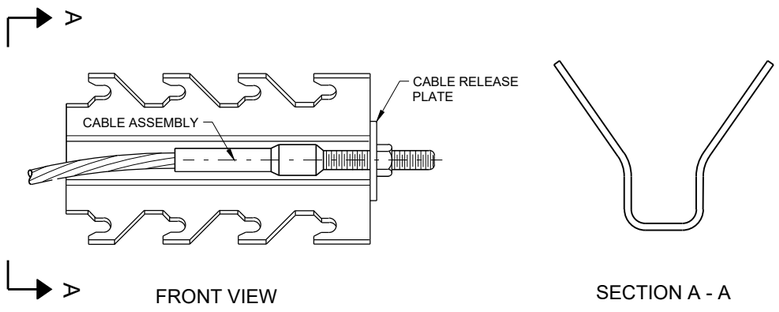
SDD 14B44 - 04a



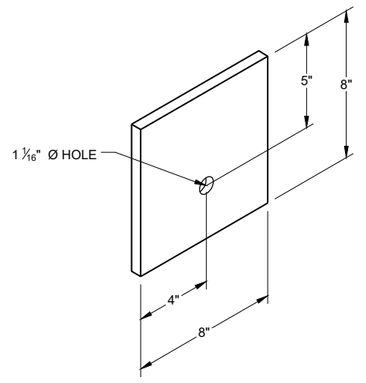
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

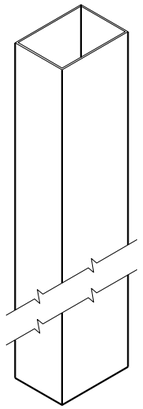
6

SDD 14B44 - 04b

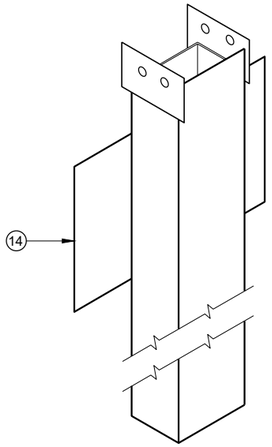
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

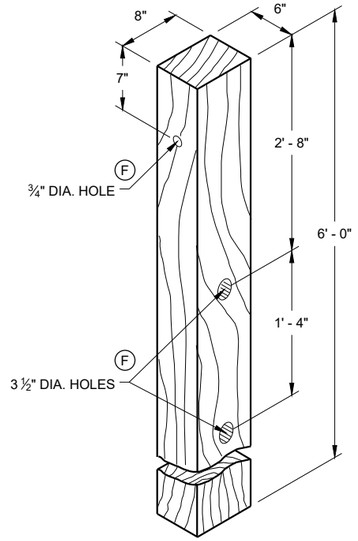
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



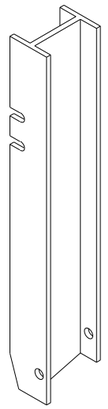
UPPER POST NO. 1 (1) (E)



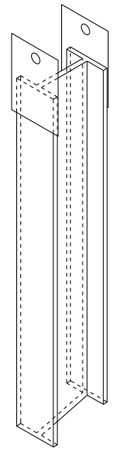
LOWER POST NO. 1 (2) (E)



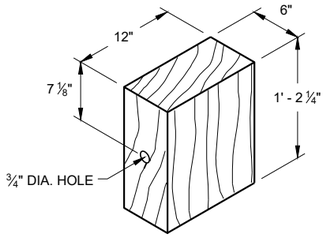
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



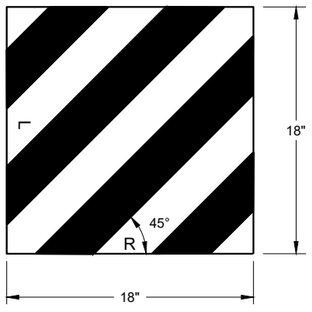
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

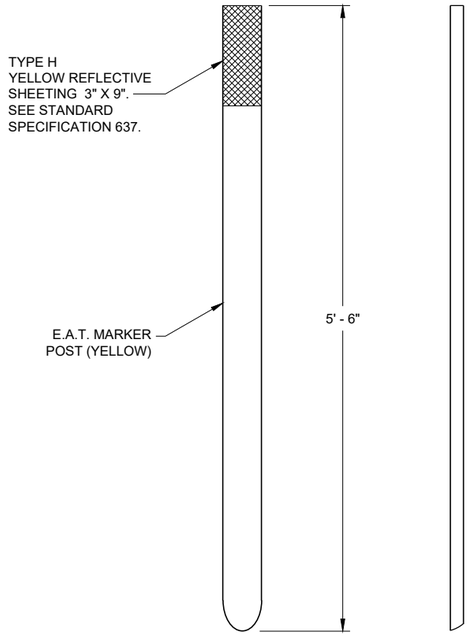


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



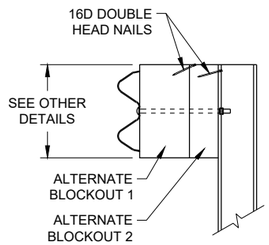
W5 - 59

REFLECTIVE SHEETING DETAIL (E)

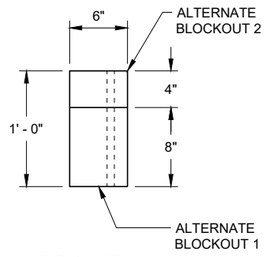


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

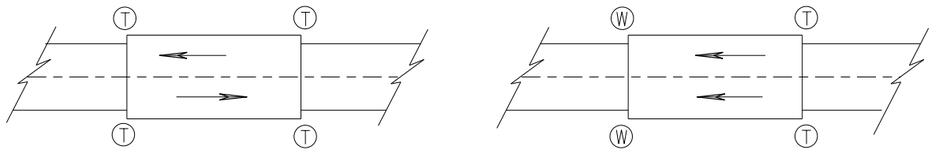
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

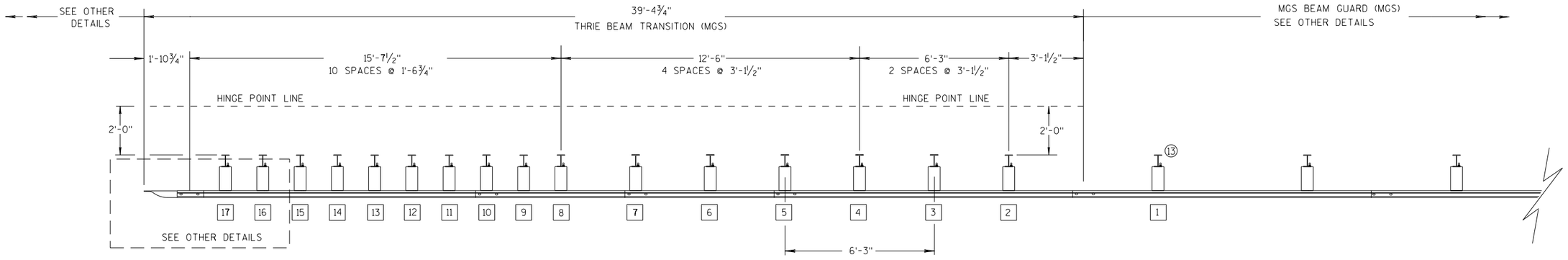
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

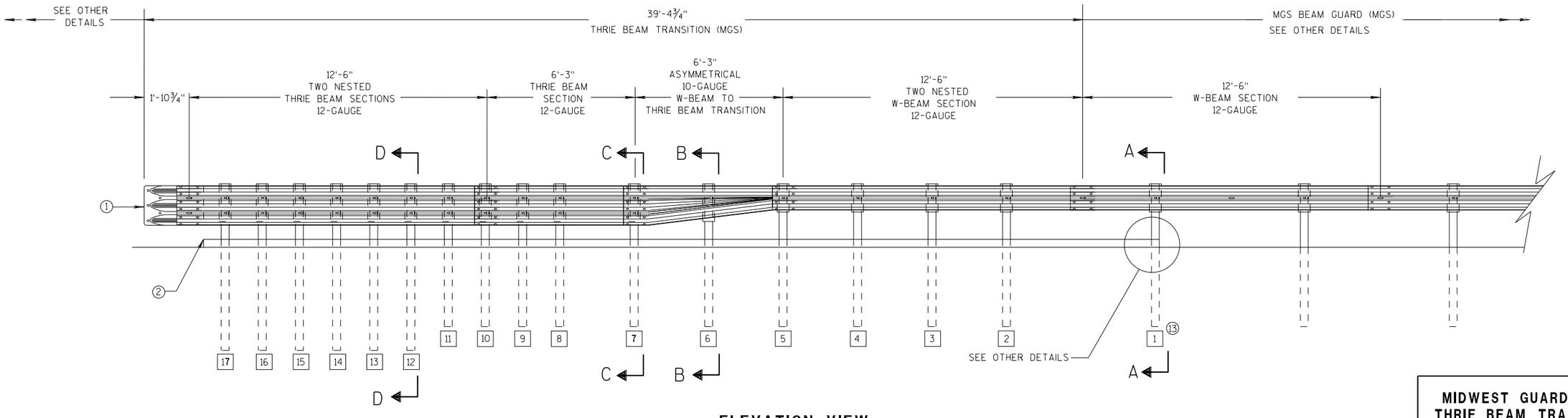
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5a

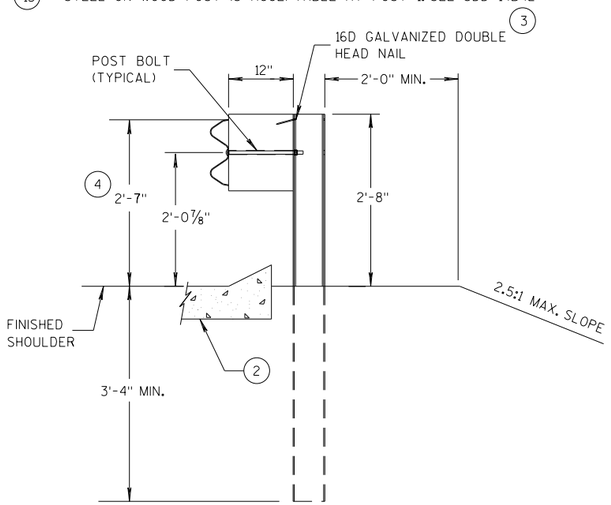
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

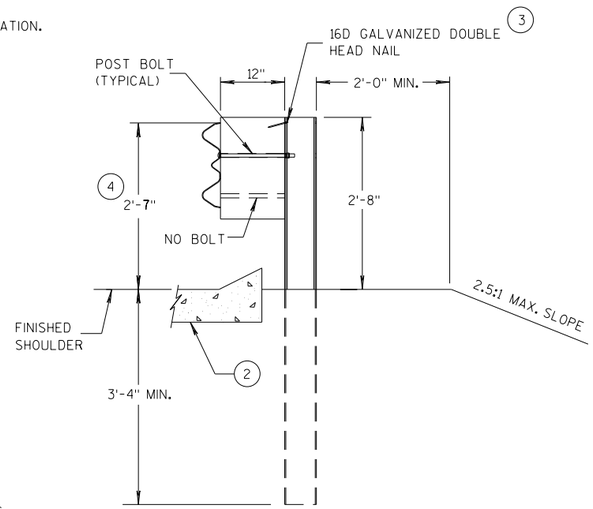
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



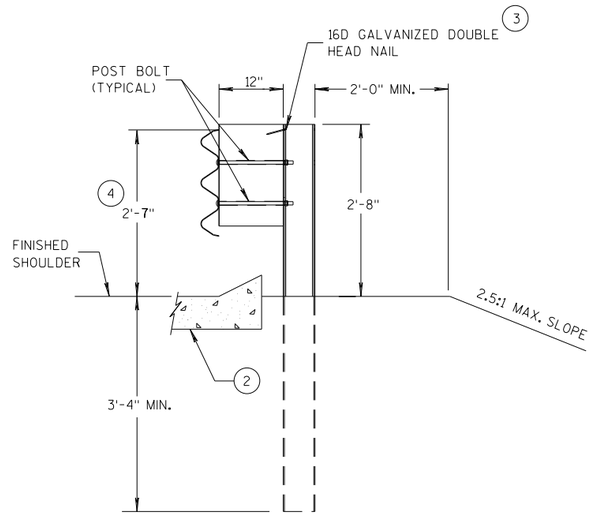
SECTION A-A (13)

POSTS 1-5



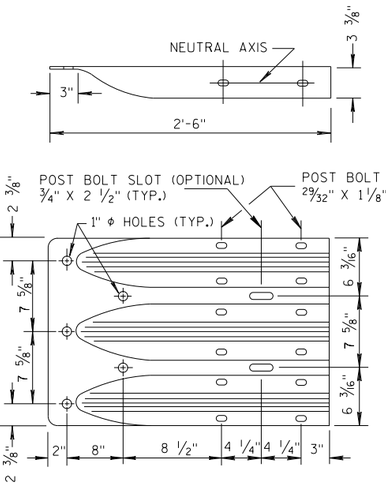
SECTION B-B

POST 6

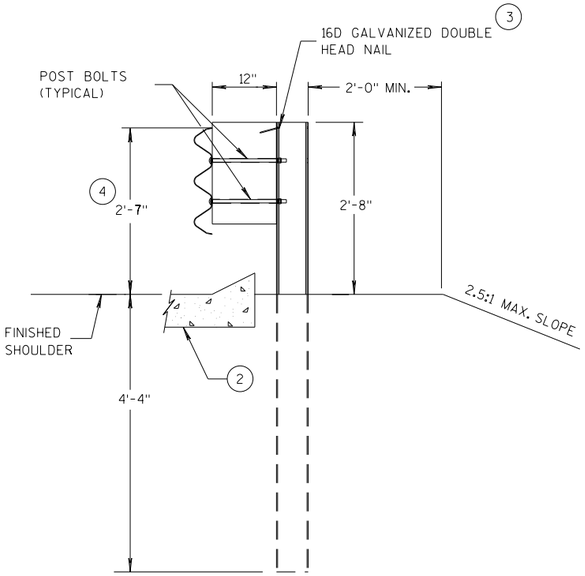


SECTION C-C

POSTS 7-11

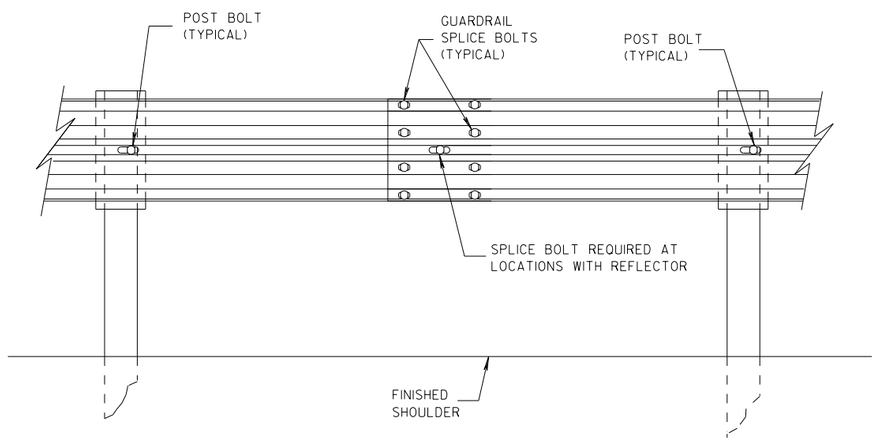


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

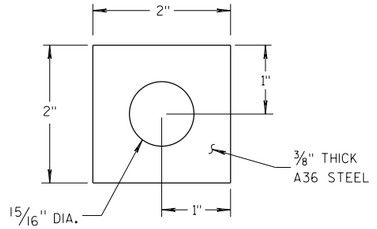
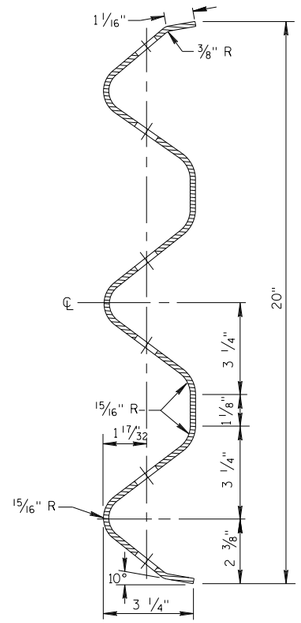


PLATE WASHER DETAIL

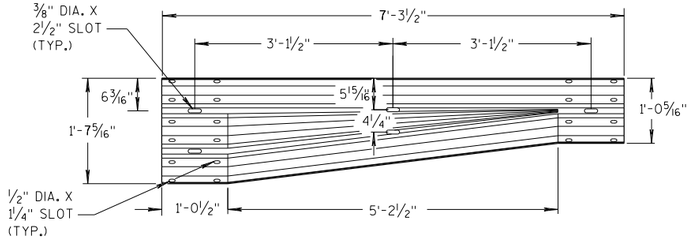


SECTION THRU THRIE BEAM RAIL ELEMENT

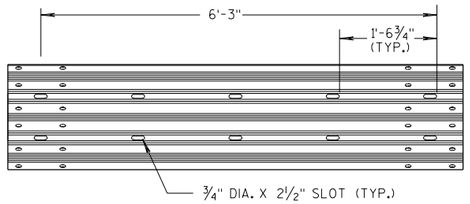
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

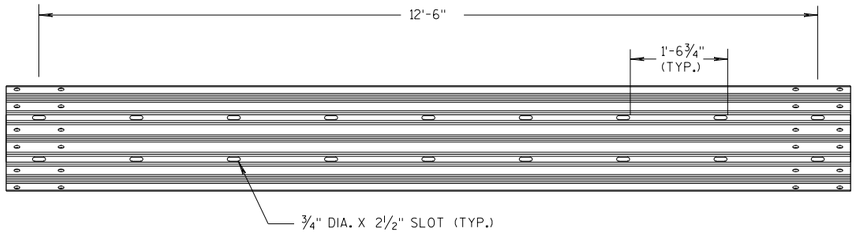
6
S.D.D. 14 B 45-5b



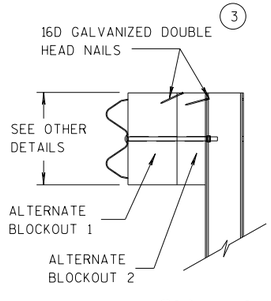
W-BEAM TO THRIE BEAM TRANSITION SECTION



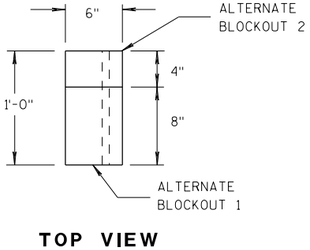
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

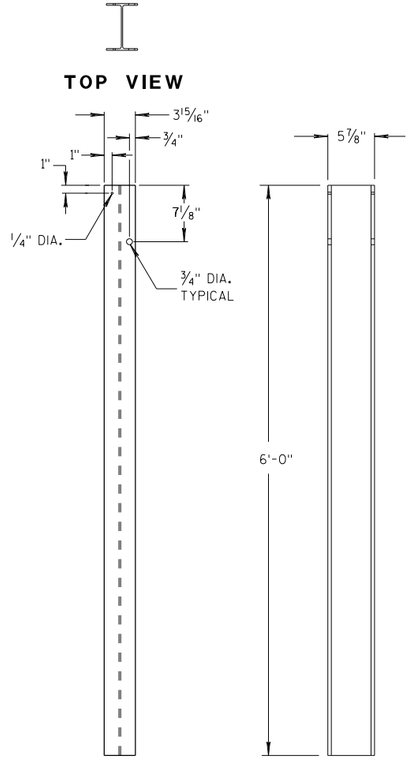


SIDE VIEW



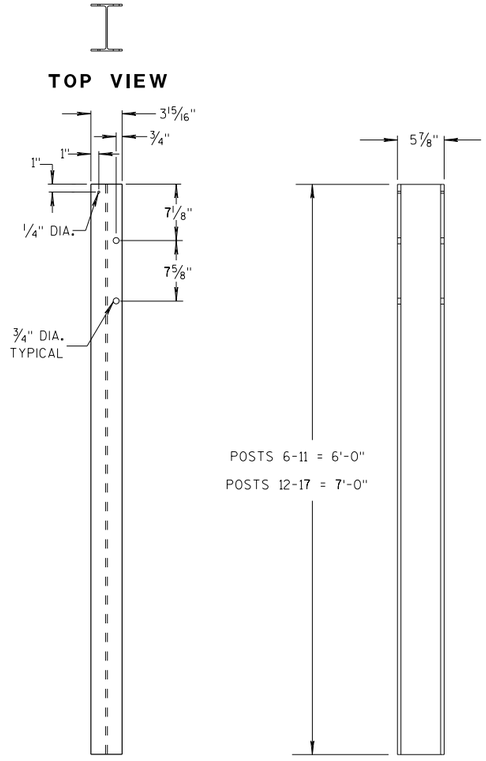
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



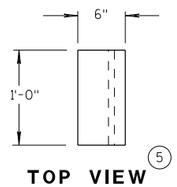
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

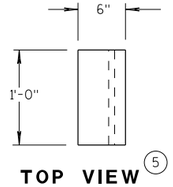


FRONT VIEW SIDE VIEW

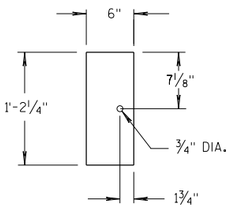
STEEL POSTS 6-17



TOP VIEW (5)

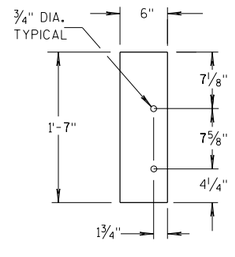


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

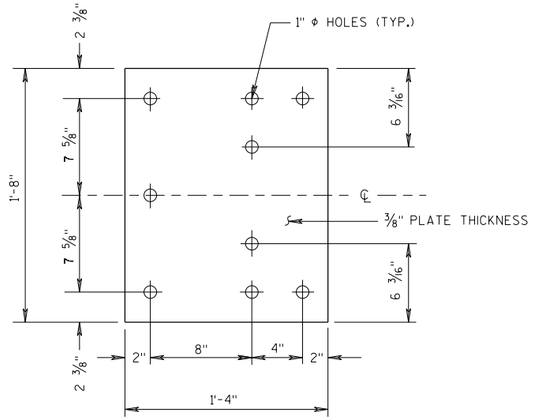
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

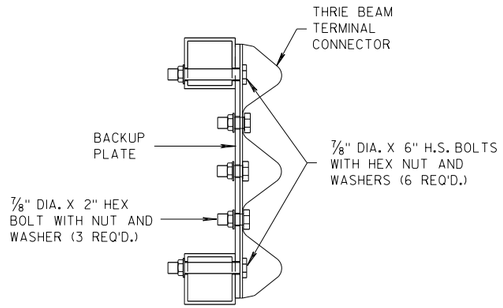
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

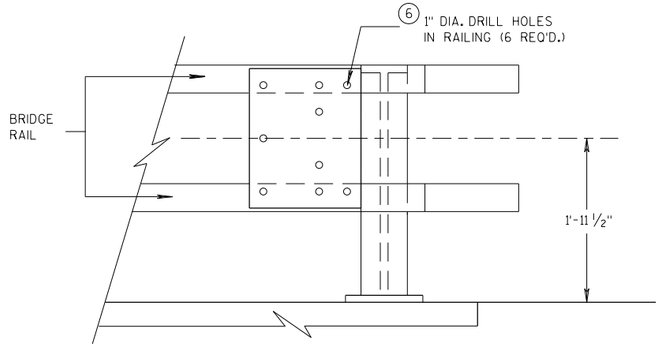
S.D.D. 14 B 45-5c



BACK-UP PLATE DETAIL



SECTION J-J

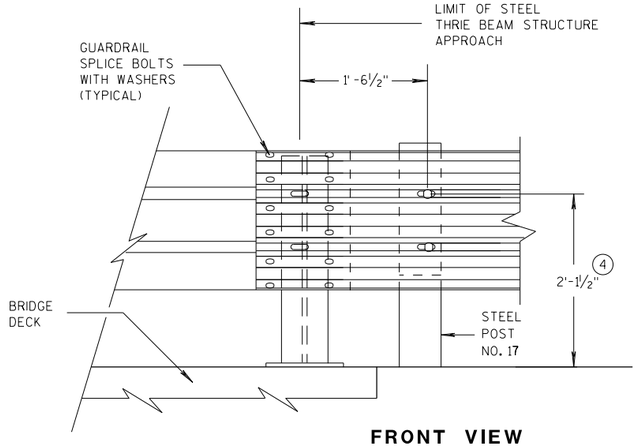


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

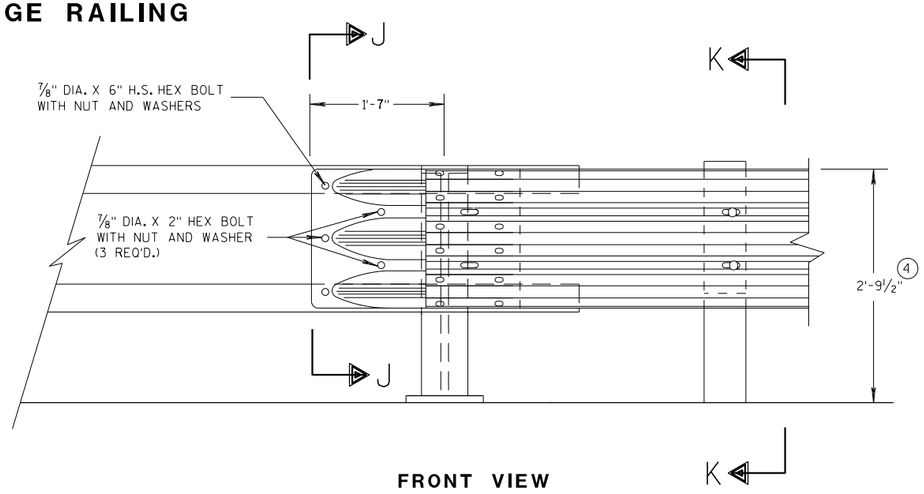
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

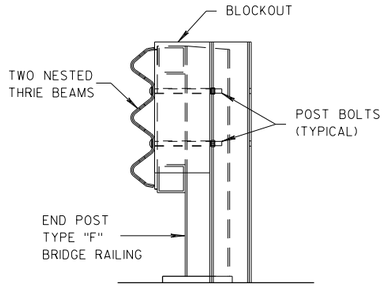


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

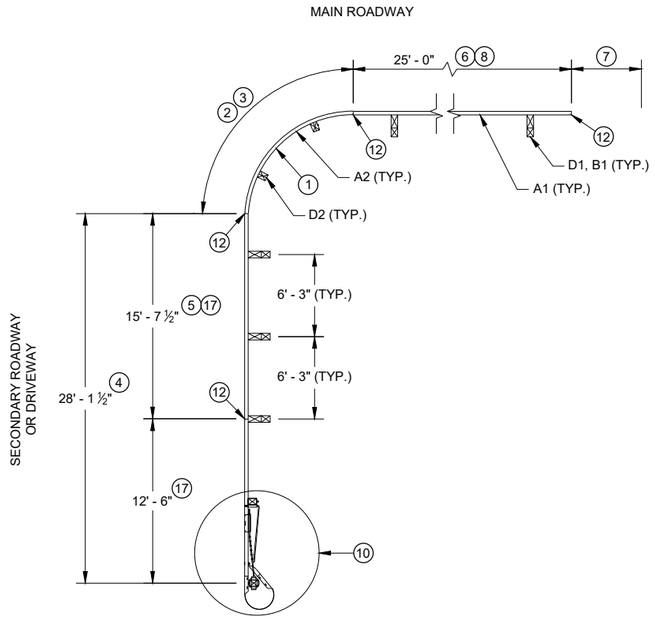
APPROVED 07/2018 — DATE
/S/ Rodney Taylor 111 — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

6

S.D.D. 14 B 45-5g

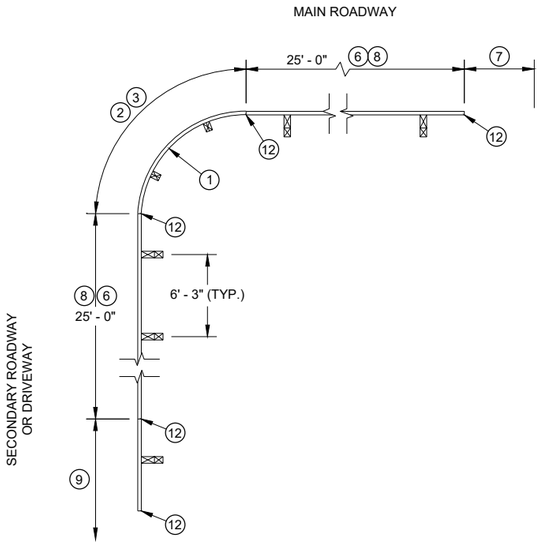
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S.D.D. 14 B 45-5g



PLAN VIEW

SHORT RADIUS BEAM GUARD WITH SHORT RADIUS TERMINAL ON SECONDARY ROAD OR DRIVEWAY

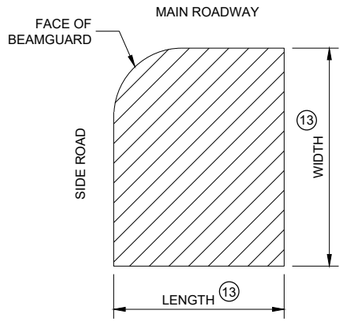


PLAN VIEW

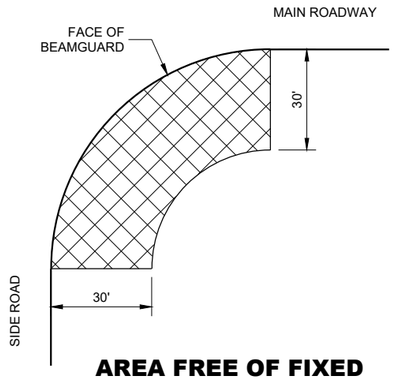
SHORT RADIUS BEAM GUARD WITH EAT, ADDITIONAL BEAM GUARD OR TRANSITION TO RIGID BARRIER ON SECONDARY ROAD OR DRIVEWAY

TABLE FOR RADIUS OF 32' AND LESS

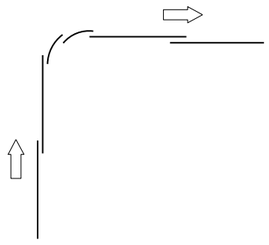
RADIUS (FT)	LENGTH (FT)	WIDTH (FT)
8	25	15
16	30	15
24	40	20
32	50	30



AREA FREE OF FIXED OBJECTS FOR RADIUS 32' AND LESS (16)



AREA FREE OF FIXED OBJECTS FOR RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

SEE SDD 14B42 FOR MORE INFORMATION ON BEAM GUARD INSTALLATION, PARTS, MATERIALS, AND INSTALLATION INFORMATION.

GALVANIZE PARTS AFTER FABRICATION.

WELDING TO FOLLOW CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI / AWS D1.1.

UNLESS NOTED OTHERWISE, ALL PLATES ARE FLAT AND FREE OF WARP.

UNLESS NOTED OTHERWISE, ALL EDGES ARE SMOOTH, STRAIGHT AND VERTICAL.

ALL CUTS AND HOLES, EXCEPT IN BEAM GUARD RAIL ARE TO BE MACHINED OR MACHINE FLAME CUT.

UNLESS NOTED OTHERWISE, CUT OR PROVIDE BOLTS THAT ARE ¼" TO ½" BEYOND THE NUT.

DRAWINGS ARE NOT TO SCALE.

(1) RADIUS MEASURE FROM INSIDE OF RAIL. LENGTH OF BEAM GUARD SHORT RADIUS GUARD MEASURED ALONG TRAFFIC SIDE OF RAIL. RADIUS BETWEEN 8 FEET TO 150 FEET. SEE PLAN FOR REQUIRED RADIUS. BEAM GUARD RAIL IN RADIUS IS SHOP BENT. ODD RAIL LENGTH OR FIELD CUTS MAY BE REQUIRED.

(2) CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE USED IN THE RADIUS. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE SPACED 6' - 3". SEE PLAN FOR NUMBER OF CONTROLLED RELEASE (CRT) POSTS.

(3) WITHIN RADIUS BEAM GUARD RAILS ARE NOT BOLTED TO POSTS. BEAM GUARD RAIL IS RESTED ON TOP OF LAG SCREW.

(4) MINIMUM LENGTH OF BEAM GUARD ALONG SIDE ROAD OR DRIVEWAY TO INSTALL SHORT RADIUS TERMINAL. BEAM GUARD IS PAID WITH BEAM GUARD ITEM.

(5) ODD LENGTH OF BEAM GUARD REQUIRED TO INSTALL SHORT RADIUS TERMINAL.

(6) MINIMUM AMOUNT OF BEAM GUARD TO BE INSTALLED PRIOR TO TRANSITION TO RIGID BARRIER. ADDITIONAL BEAM GUARD, OR EAT. BEAM GUARD PAID FOR WITH BEAM GUARD ITEM. SEE PLANS FOR MORE DETAIL.

(7) BEAM GUARD, EAT, OR TRANSITION TO RIGID BARRIER. SEE PLAN.

(8) TOP OF BEAM GUARD BY THE RADIUS IS 27". HEIGHT OF BEAM GUARD IS 31" BY TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD OR EAT.

(9) ADDITIONAL BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. BEAM GUARD SHOWN. SEE PLAN FOR DETAILS.

(10) SHORT RADIUS TERMINAL (SEE OTHER DETAILS).

(11) HEIGHT VARIES. SEE NOTE (8) AND (8).

(12) BEAM GUARD RAIL SPLICE LOCATION. SPLICE LOCATION REQUIRES PART F1 AND F2. SEE SDD 14B42 FOR DETAILS.

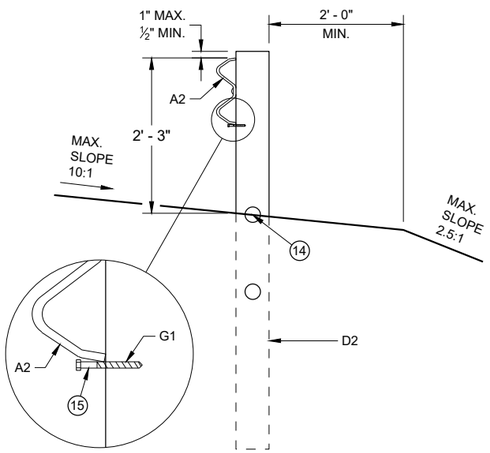
(13) SEE TABLE FOR VALUES.

(14) MAXIMUM HEIGHT FOR CENTER OF HOLE IS ¾" ABOVE FINISHED GROUND ±1".

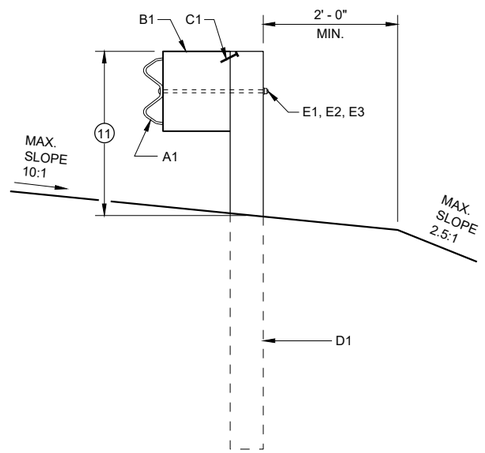
(15) DRILL POST $^{15}/_{64}$" DIA. PILOT HOLE. DO NOT HAMMER LAG SCREW INTO POST.

(16) SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.

(17) TOP OF RAIL HEIGHT IS 27" WHEN USING A SHORT RADIUS TERMINAL (CRT).



CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



BEAM GUARD POSTS IN HEIGHT TRANSITION

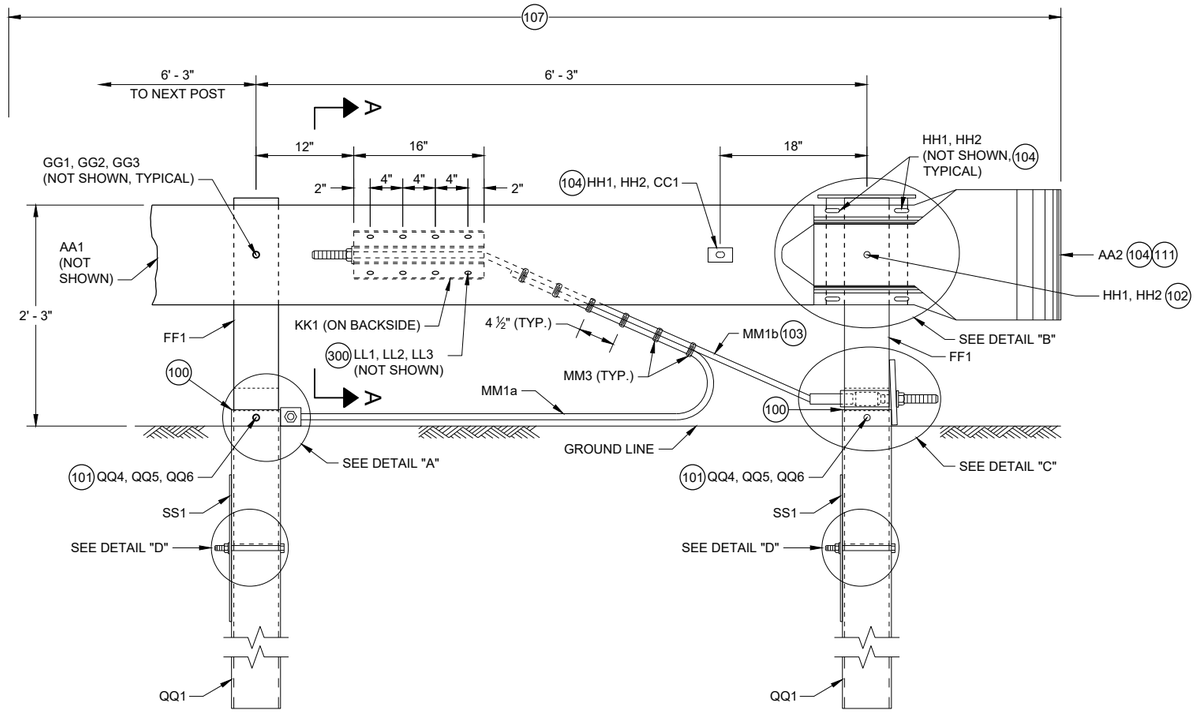
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B53 - 01a

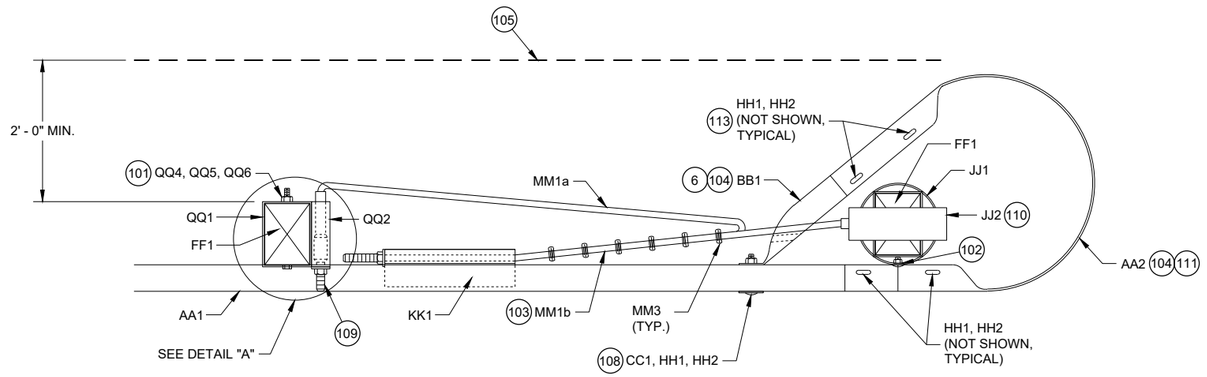
6

SDD 14B53 - 01a



PROFILE VIEW

SHORT RADIUS TERMINAL



TOP VIEW

SHORT RADIUS TERMINAL

GENERAL NOTES

100 TOP OF FOUNDATION TUBE 2 INCHES MAXIMUM ABOVE FINISHED GROUND.

101 WASHERS REQUIRED BETWEEN BOLT HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

102 SPLICE BOLT AND NUT CONNECTS BEAM GUARD RAIL, W-BEAM SECTION BUFFER, AND STEEL PIPE ASSEMBLY. NO WASHER REQUIRED. SEE DETAIL "B".

103 CABLE IS TAUT.

104 ADJUST AA2 AND BB1 TO FIT.

105 BREAK POINT OF SHOULDER.

106 TACK WELD CABLE CONNECTOR TUBE PLATE TO CABLE CONNECTION TUBE. SEE DETAIL "A" PROFILE VIEW.

107 PAY LIMIT FOR BEAM GUARD.

108 SQUARE WASHER BETWEEN HEAD OF BOLT AND TRAFFIC FACE OF BEAM GUARD. ROUND WASHER REQUIRED BETWEEN NUT AND BB1.

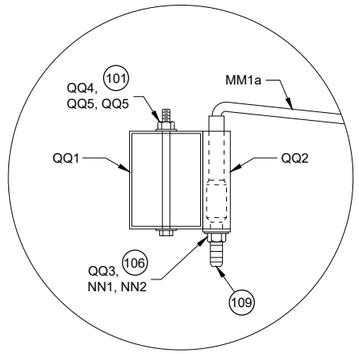
109 CUT OR PROVIDE THREADED STUD THAT IS FLUSH WITH FACE OF BEAM GUARD RAIL KK1 (PLUS OR MINUS ½" TOLERANCE). DEBURR AFTER CUTTING.

110 SEE STEEL PIPE ASSEMBLY DETAILS.

111 ATTACH UU2 WITH UU3. SHOP APPLY UU1 TO UU2.

112 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA1 TO AA2.

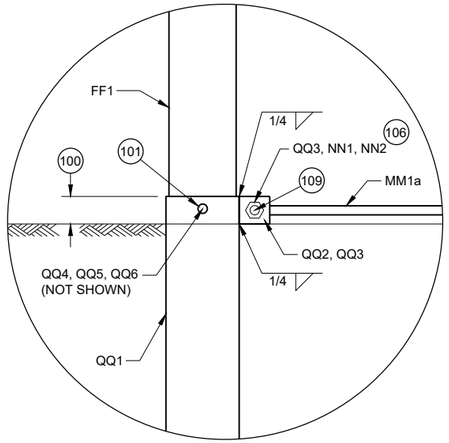
113 FOUR (4) HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.



TOP VIEW

DETAIL "A"

(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)



PROFILE VIEW

DETAIL "A"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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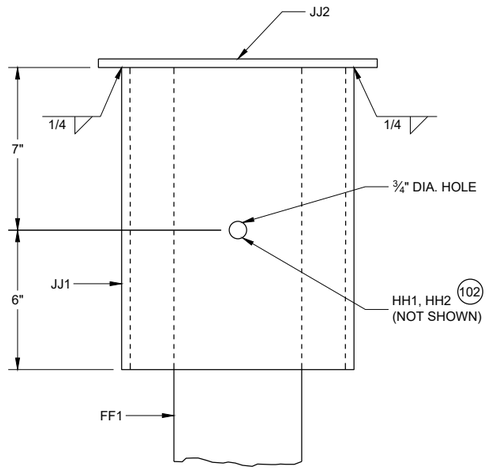
SDD 14B53 - 01b

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SDD 14B53 - 01b

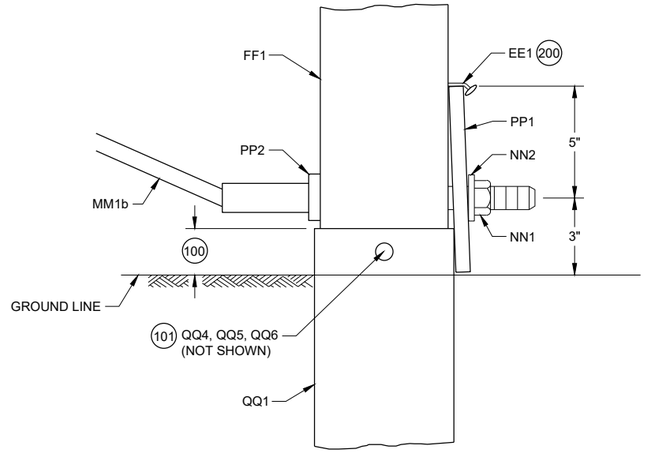
GENERAL NOTES

(200) TWO (2) NAILS SPACED 4 INCHES CENTER TO CENTER.



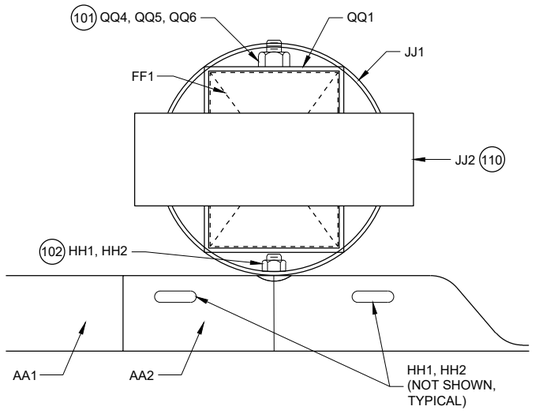
PROFILE VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY
(BEAM GUARD AND W BEAM END SECTION NOT SHOWN)



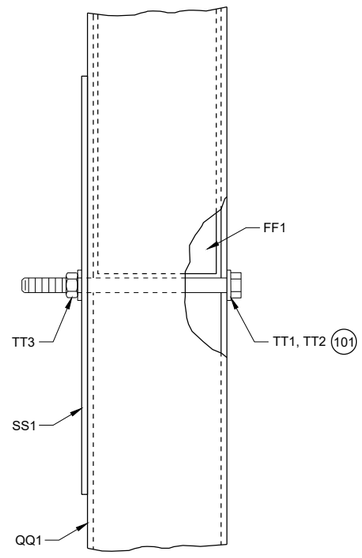
PROFILE VIEW

DETAIL "C"



PLAN VIEW

DETAIL "B"
STEEL PIPE ASSEMBLY



PROFILE VIEW

DETAIL "D"

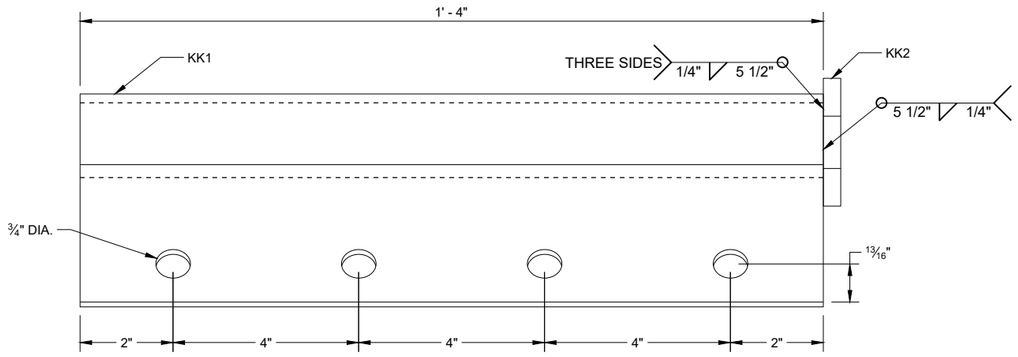
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

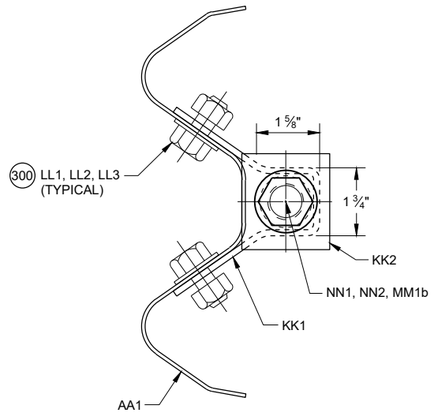
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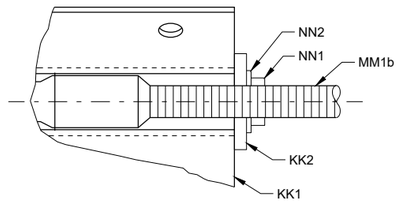
SDD 14B53 - 01c

GENERAL NOTES

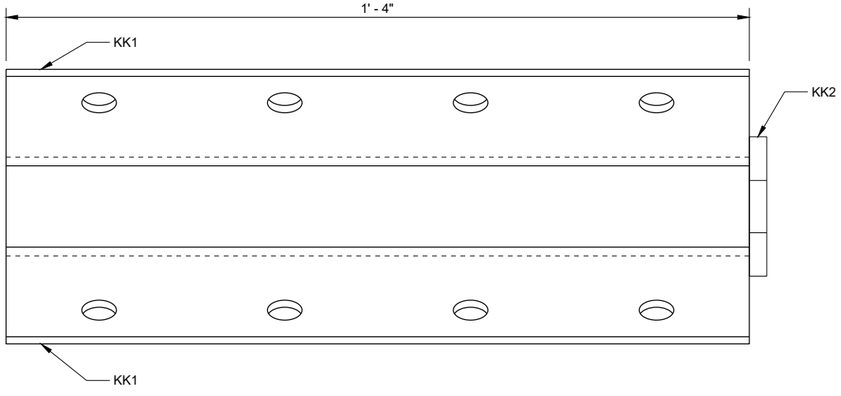
(300) WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT (8) LL1 AND LL3 REQUIRED. SIXTEEN (16) LL2 REQUIRED.

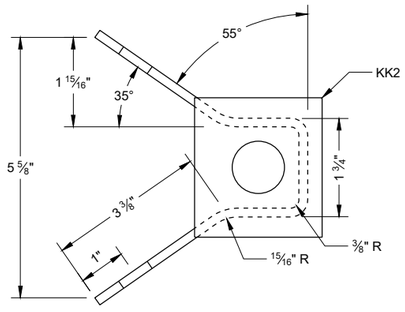




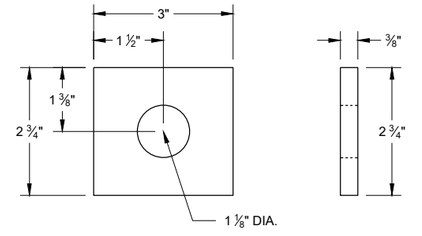


SECTION A - A





ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

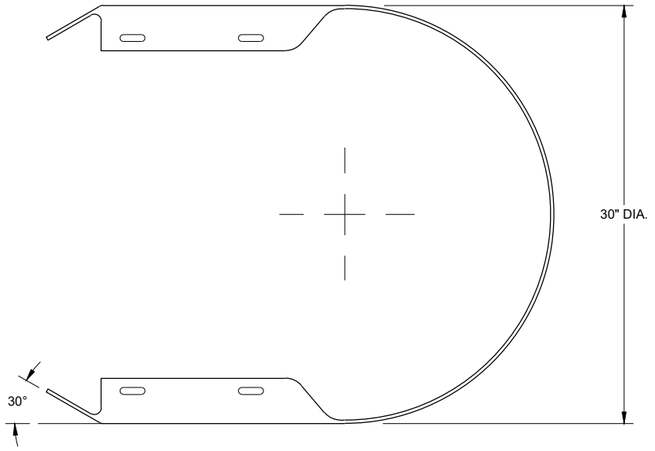
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SDD 14B53 - 01d

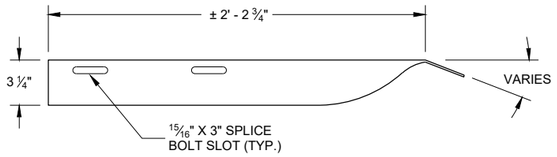
GENERAL NOTES

(400) CROSS SECTION OF PART IS TO FIT OVER AA1 .

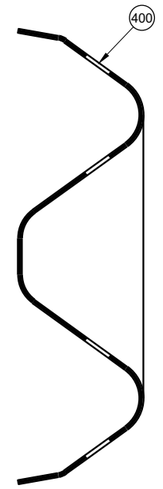
(401) CROSS SECTION OF PART IS TO FIT OVER OR UNDER AA1 .



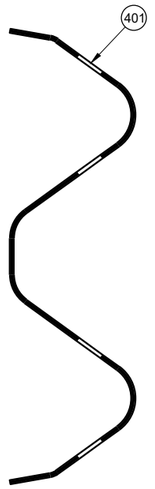
TOP VIEW



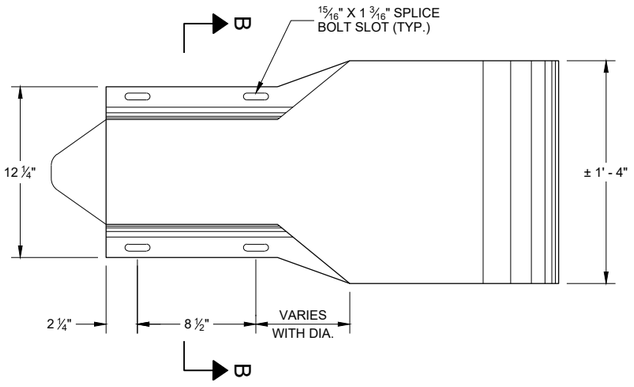
TOP VIEW



SECTION B -B

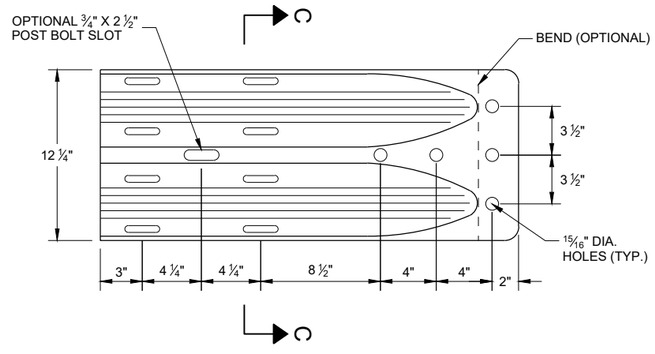


SECTION C -C



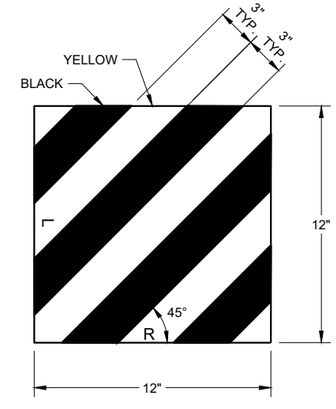
PROFILE VIEW

W BEAM
END SECTION BUFFER (AA2)



PROFILE VIEW

W BEAM
TERMINAL CONNECTOR (BB1)



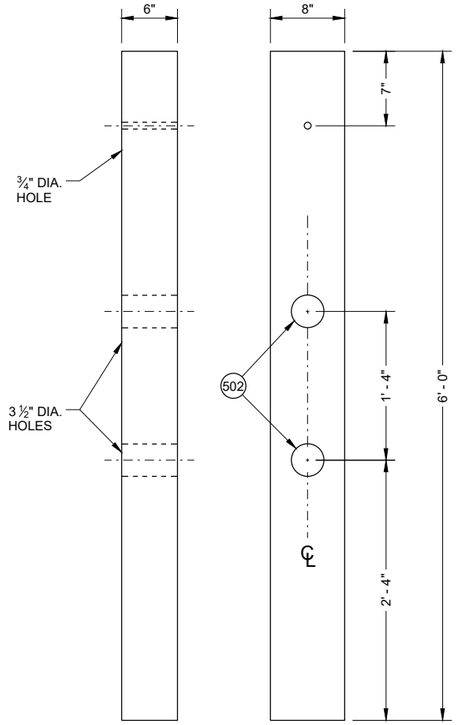
REFLECTIVE SHEETING (UU1, UU2)

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
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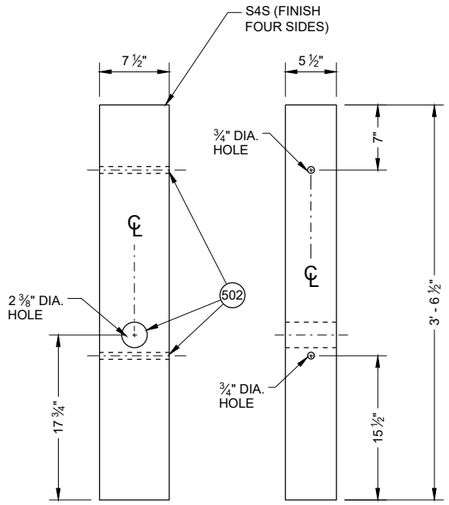
6

SDD 14B53 - 01e



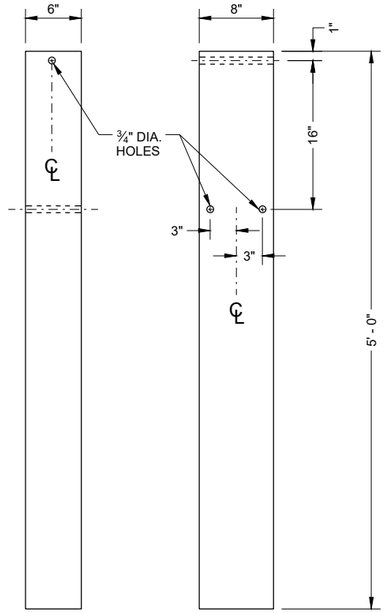
FRONT VIEW SIDE VIEW

CONTROLLED RELEASE POST (CRT) (DD2)



FRONT VIEW SIDE VIEW

WOOD BREAKAWAY POST (FF1)



FRONT VIEW SIDE VIEW

FOUNDATION TUBE (QQ1) 500

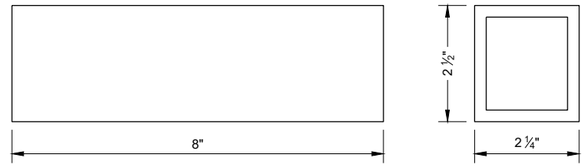
GENERAL NOTES

500 SEE DETAIL "D" FOR LOCATION AND ATTACHMENT OF SS1.

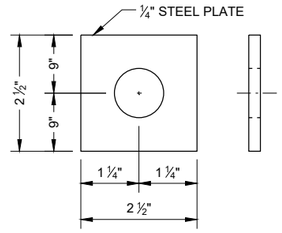
501 FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

502 LOCATE HOLES ON THE CENTERLINE OF THE SIDE OF THE POST.

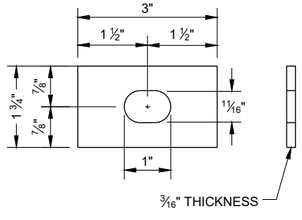
503 MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE 109.



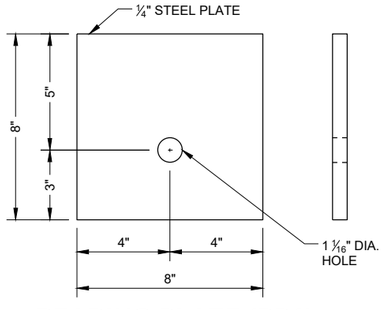
FOUNDATION TUBE - ANCHOR CABLE TUBE (QQ2)



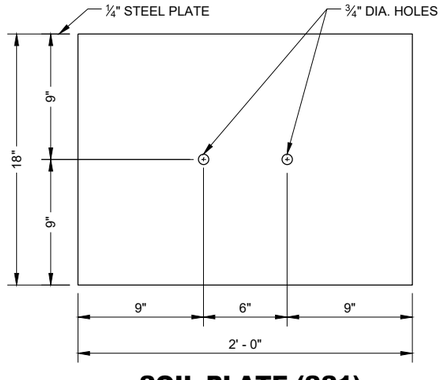
ANCHOR CABLE TUBE END PLATE (QQ3)



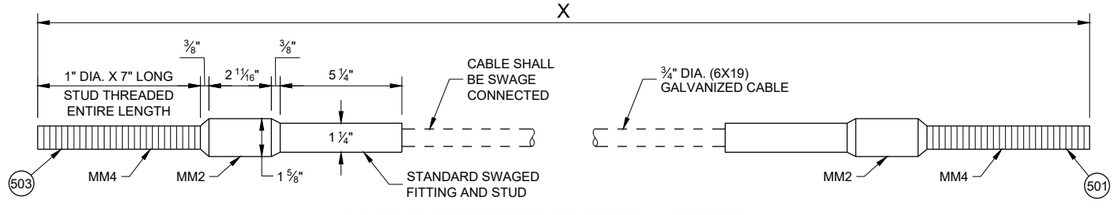
RECTANGULAR PLATE WASHER (CC1)



BEARING PLATE (PP1)



SOIL PLATE (SS1)



CABLE ASSEMBLY (MM1a, MM1b)

"X" LENGTH

MM1b	9' - 0"
MM1b	6' - 8"

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

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SDD 14B53 - 01f

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	BEAM GUARD RAIL	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
A2	BEAM GUARD RAIL - SHOP BENT	INDICATE ON BACK OF RAIL THE RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.	
		AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42
C1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)	
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42
D2	POST-CRT-WOOD	WISDOT SPEC. 614	
E1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
E2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
E3	POST BOLT - NUT	AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
F1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	1/2" DIA. 6" LONG
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION
H2	DELINEATION - SHEETING	YELLOW OR WHITE	
		WISDOT SPEC 637 TYPE SH	
		APPROVED PRODUCT LIST	
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614	
AA1	BEAM GUARD RAIL - PUNCHED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
AA2	BEAM GUARD RAIL - END SECTION BUFFER	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
BB1	BEAM GUARD RAIL - TERMINAL CONNECTOR MODIFIED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
CC1	SHORT RADIUS - SQUARE WASHER	AASHTO M180	
		GALV. AASHTO M111 / ASTM A123	
EE1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)	
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES	
		WISDOT SPEC. 614	
GG1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	3/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	3/8" DIA.
		GALV. AASHTO M111 / ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
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SDD 14B53 - 01g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	⅜" DIA. SEE 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
HH1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	⅜" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180 HEAD GEOMETRY	
HH2	SPLICE BOLT - NUT	ASTM A563 GRADE A	⅜" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.
JJ2	TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS ⅜" X 4" X 1' - 0"
		GALV. AASHTO M111 / ASTM A123	
KK1	ANCHOR BRACKET	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
LL1	ANCHOR BRACKET - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	⅝" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	⅝" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3	ANCHOR BRACKET - NUT	ASTM A563 GRADE A	⅝" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
MM1a	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM2	ANCHOR CABLE - SWAGE FITTING	ASTM A576 GRADE 1035	
		SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
		GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM3	WIRE ROPE CABLE CLAMPS	FF-C-450D TYPE 1 CLASS 1	¾"
		ASTM A153 HOT DIP CLASS D	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
NN1	ANCHOR CABLE - NUT	ASTM A563 GRADE A	1" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
NN2	ANCHOR CABLE - NUT - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	1" DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
PP1	BEARING PLATE AT POST	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
PP2	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	2" DIA. x 6" LONG
QQ1	FOUNDATION TUBE	ASTM A500 GRADE B	8" X 6" X 3/16"
		GALV. AASHTO M111 / ASTM A123	
QQ2	SHORT RADIUS - FOUNDATION TUBE - ANCHOR CABLE - TUBE	ASTM A500 GRADE B	DIMENSIONS 2 1/2" X 2 1/4" X 1/4" X 8"
		GALV. AASHTO M111 / ASTM A123	
QQ3	SHORT RADIUS - SOIL TUBE - ANCHOR CABLE - TUBE - END PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 2 1/2" X 2 1/2" X 1/4"
		GALV. AASHTO M111 / ASTM A123	
QQ4	GROUND STRUT AND YOKE - BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	
		UNC	
QQ5	GROUND PLATE AND YOKE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
QQ6	GROUND STRUT AND YOKE - NUT	HEAVY HEX	5/8 DIA.
		UNC	
		ASTM A563 GRADE A	
		OVER TAPPED NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
SS1	SOIL PLATE	ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / A123	
TT1	SOIL PLATE - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8 DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
		UNC	
TT2	SOIL PLATE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8 DIA.
		GALV. AASHTO M111 / ASTM A123 OR GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
TT3	SOIL PLATE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	5/8 DIA.
UU1	OBJECT MARKER - SHEETING	MUTCD / WISDOT OBJECT MARKER TYPE 3	PATTERN AND COLOR FOR SHEETING. SHEETING TYPE FOR MARKER.
		WISDOT SPEC 637 TYPE F	
		APPROVED PRODUCT LIST	
UU2	OBJECT MARKER - ALUMINUM PLATE	WISDOT SPEC 637 ALUMINUM PLATE	MATERIAL AND THICKNESS OF MATERIALS
UU3	OBJECT MARKER - SCREWS	STAINLESS SELF-TAPPING SCREWS	
VV1	FOUNDATION BACKFILL	WISDOT SPEC 614	

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SDD 14B53 - 01i

SDD 14B53 - 01i

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

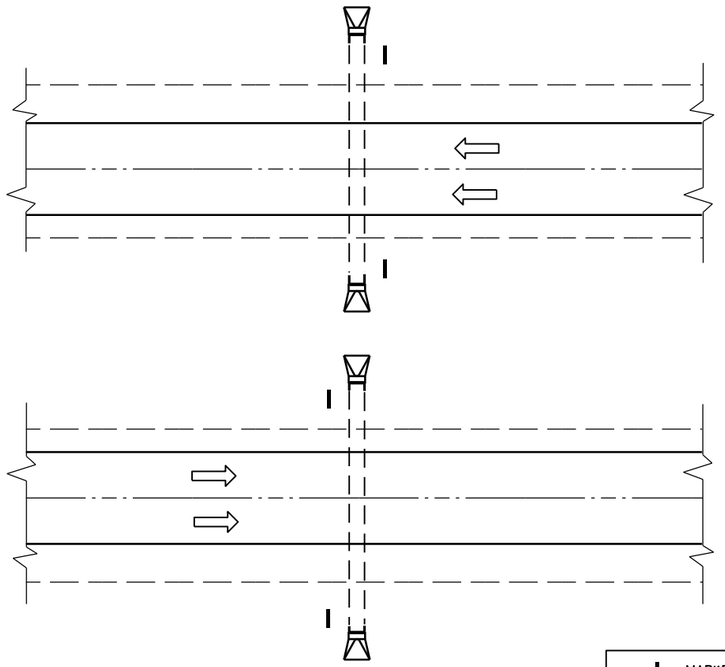
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

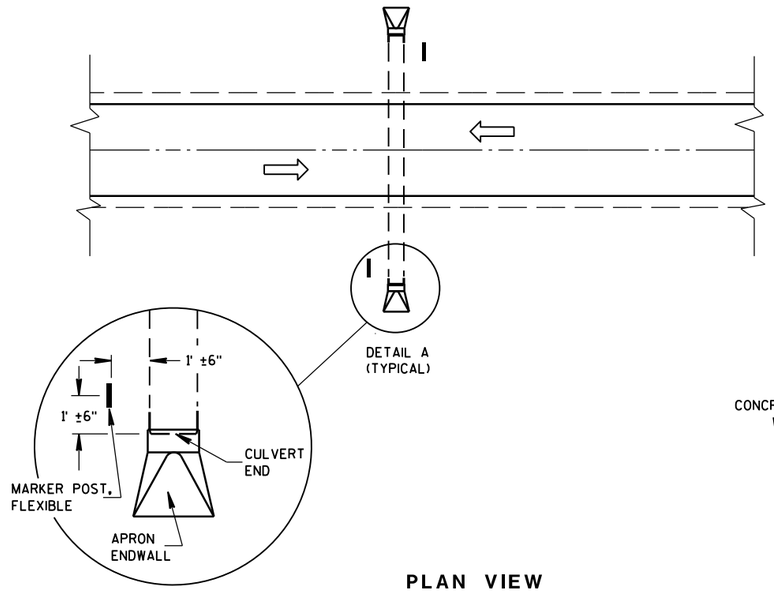
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

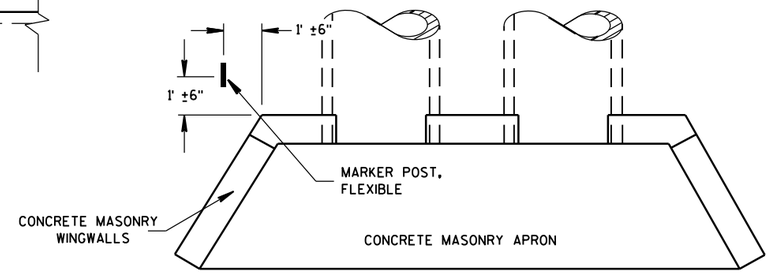
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

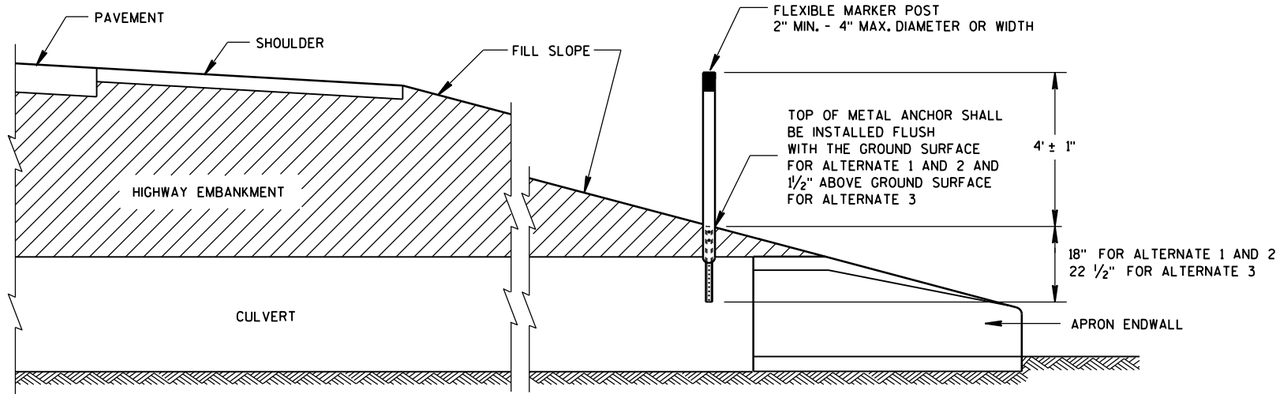
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

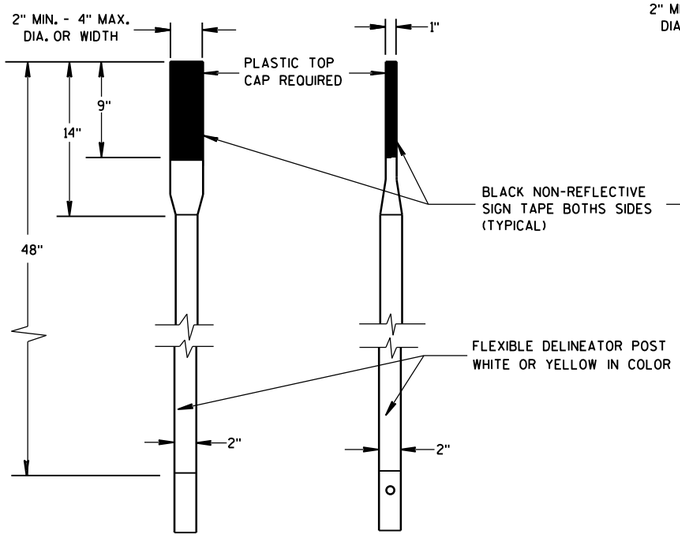
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

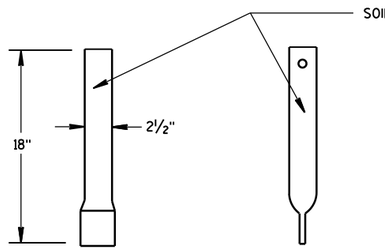
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S.D.D. 15 A 3-2a

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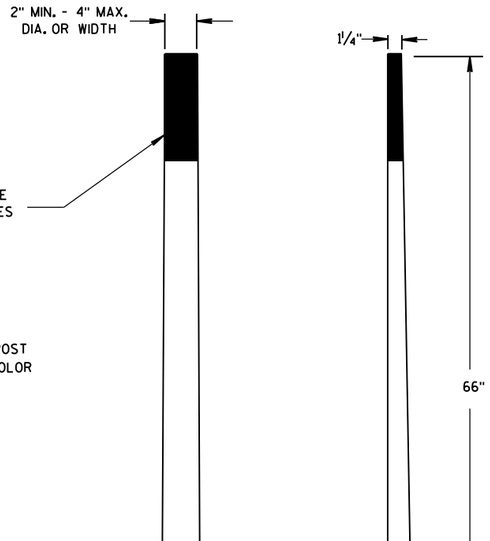
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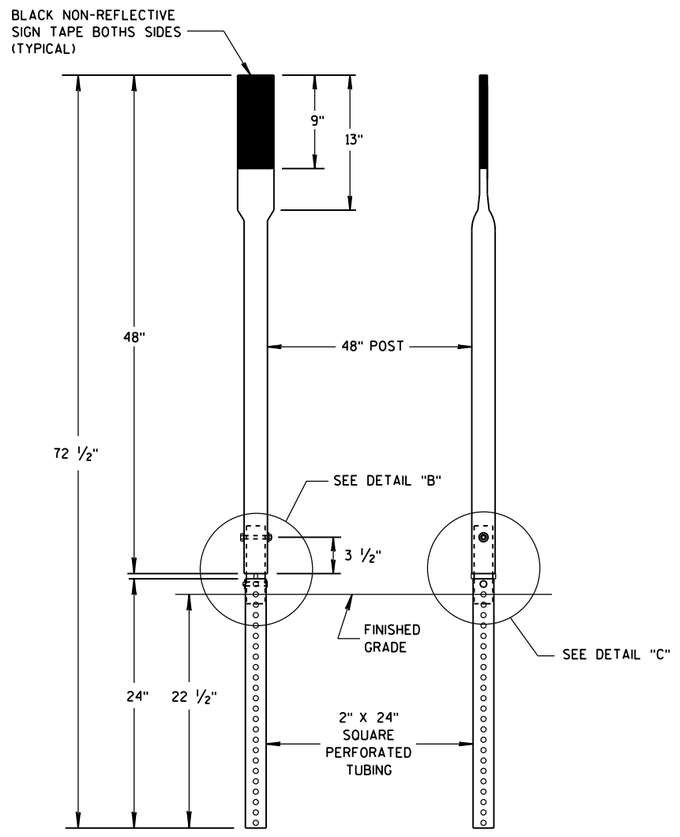
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

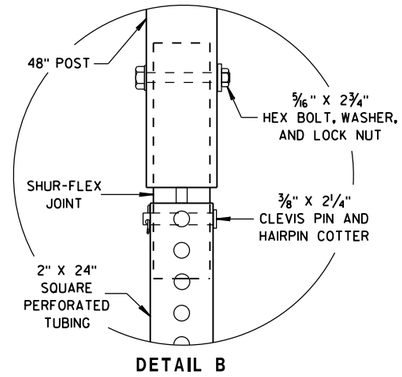
ALTERNATE 2



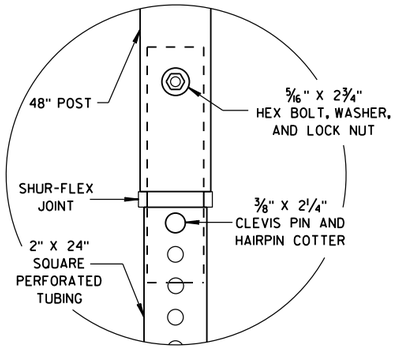
FRONT VIEW SIDE VIEW

ALTERNATE 3

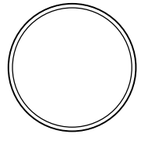
FLEXIBLE MARKER POSTS



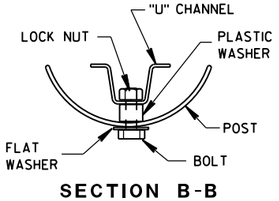
DETAIL B



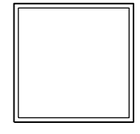
DETAIL C



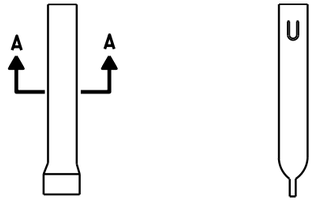
SECTION A-A



SECTION B-B

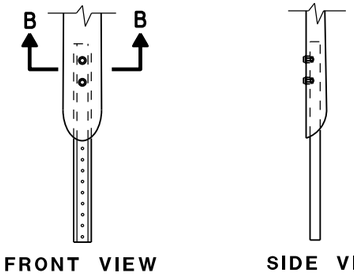


SECTION C-C



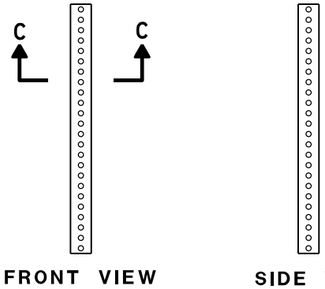
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

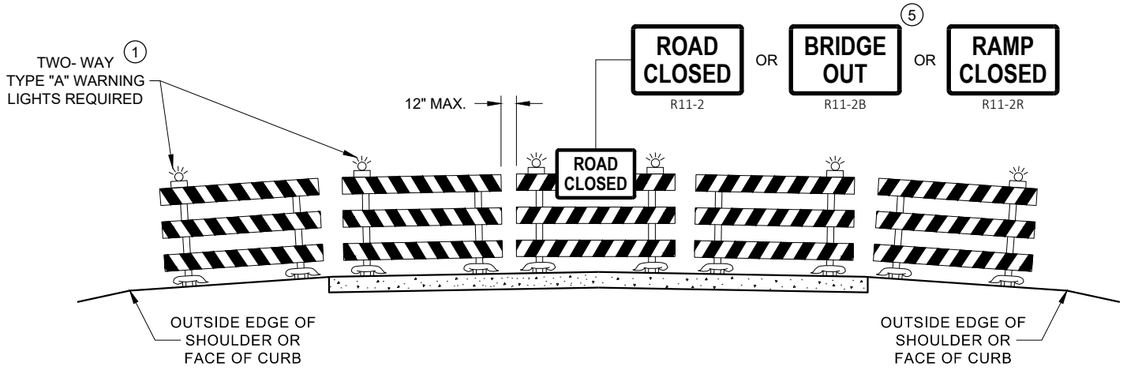
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

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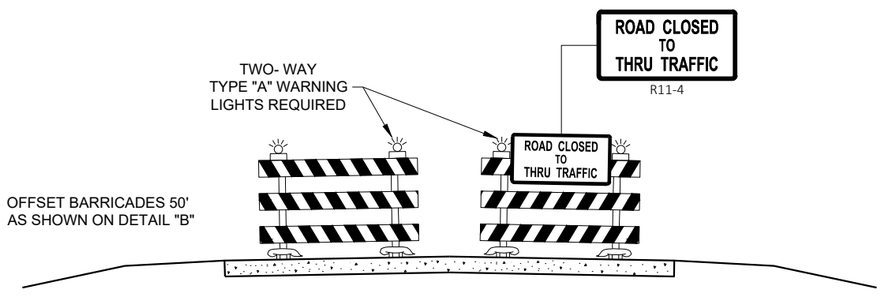
S.D.D. 15 A 3-2b

6

S.D.D. 15 A 3-2b



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE 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, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(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 LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

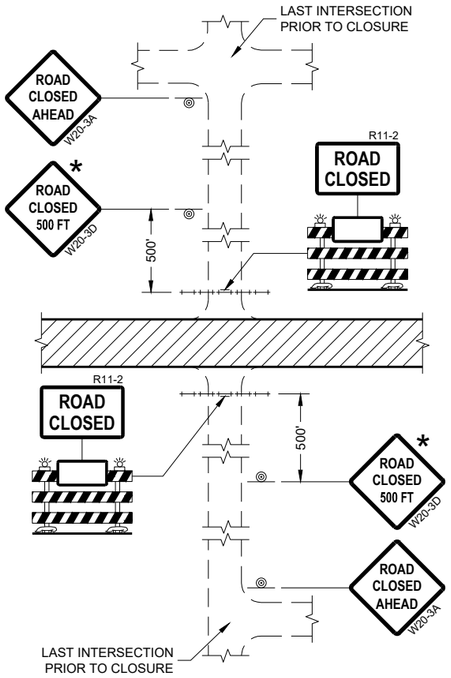
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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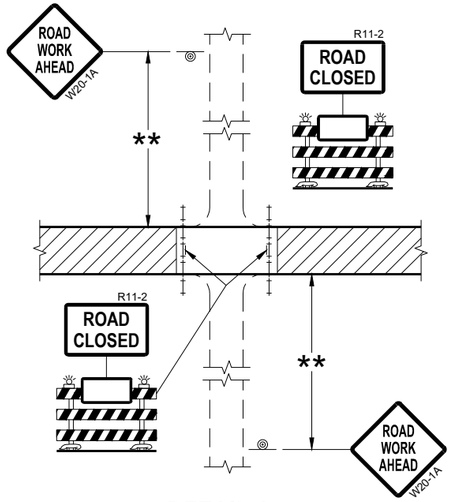
SDD 15C02 - 08b

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SDD 15C02 - 08b



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

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 (500 FEET DESIRABLE) 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 REESTABLISHED.

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

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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.

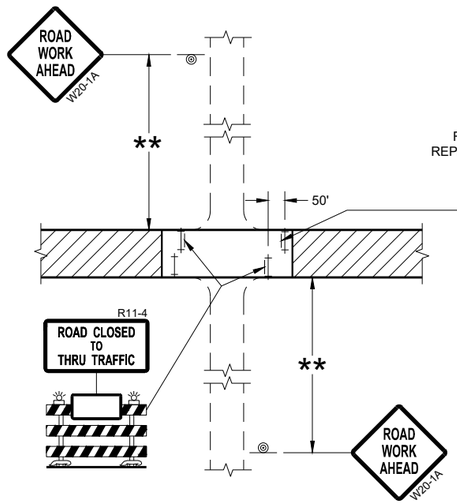
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

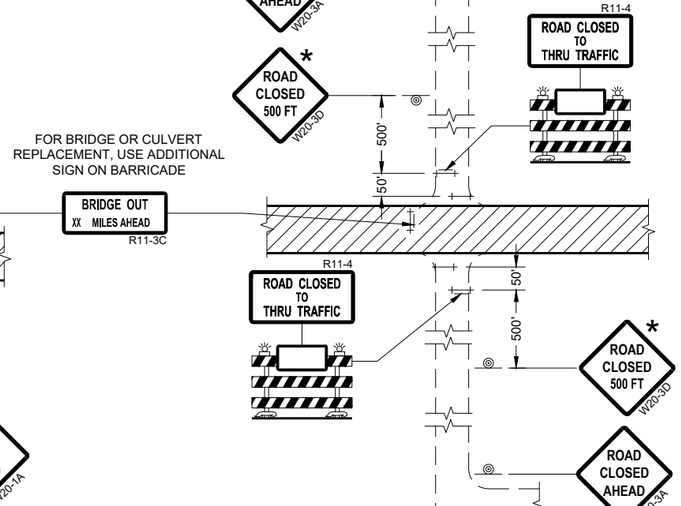
THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.





DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C03 - 05

SDD 15C03 - 05

GENERAL NOTES

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

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

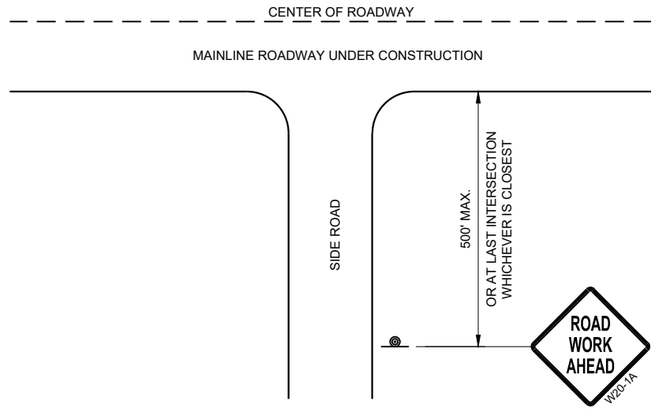
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

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

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



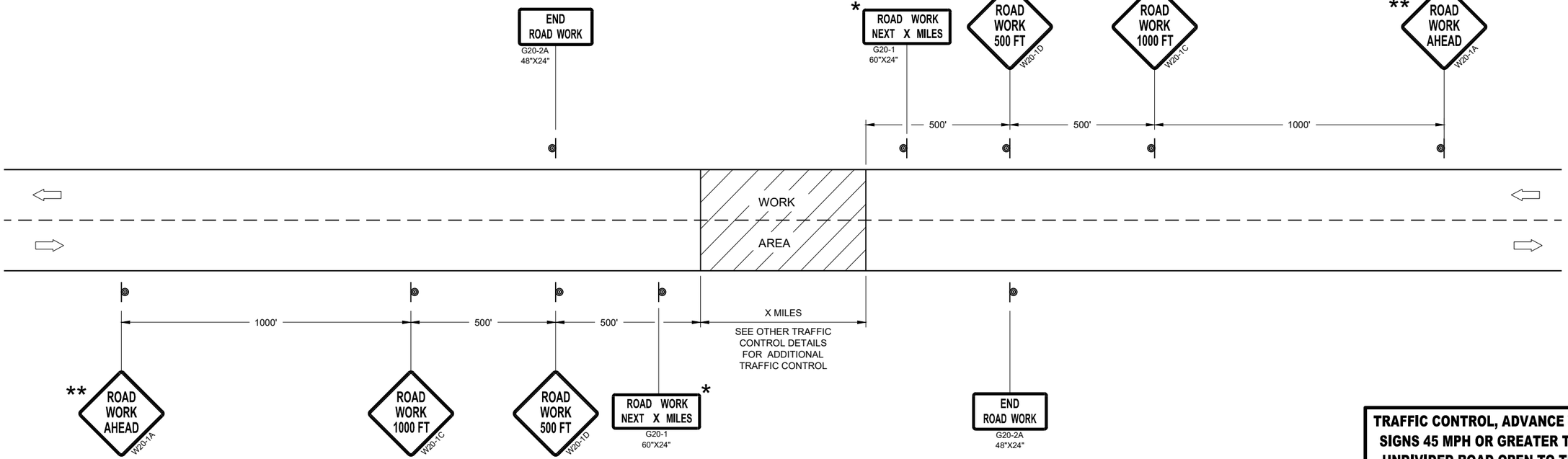
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

6

SDD 15C04 - 05

GENERAL NOTES

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

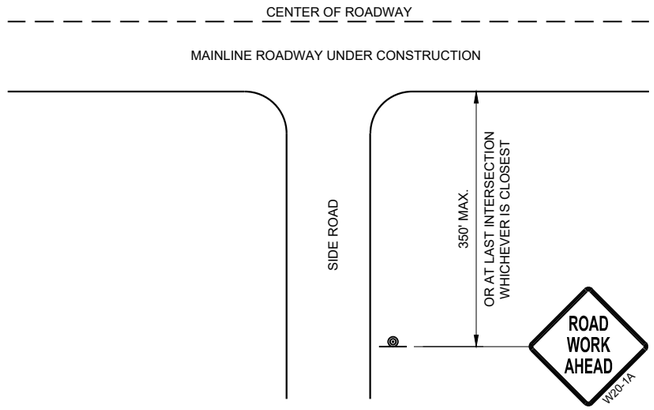
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

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

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

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



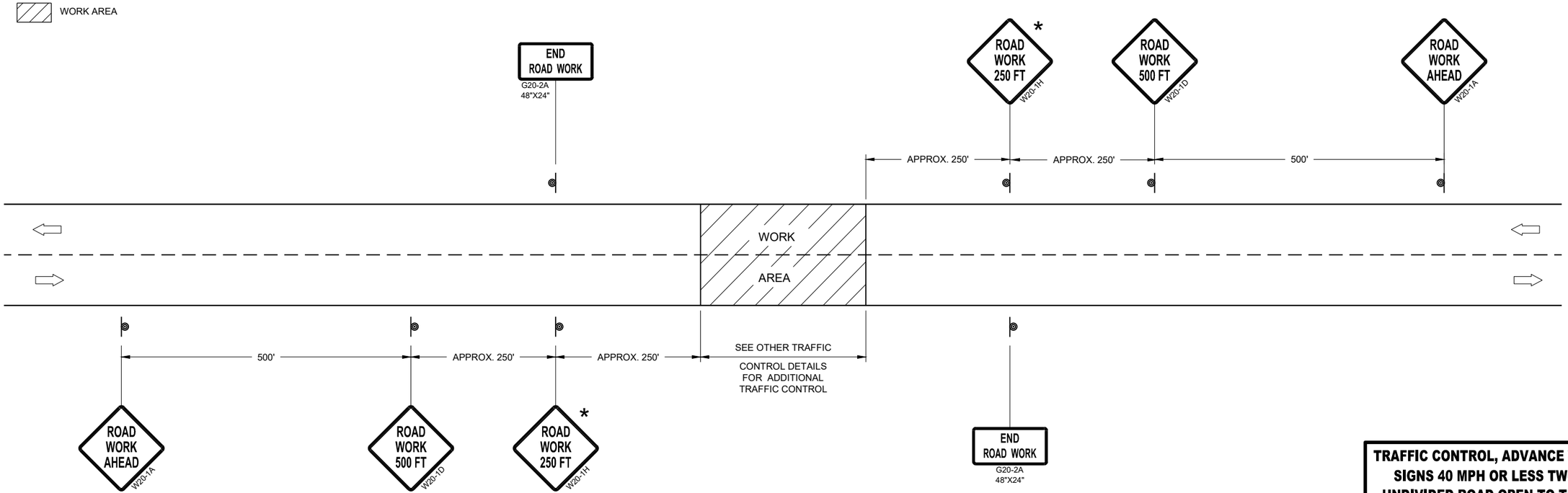
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

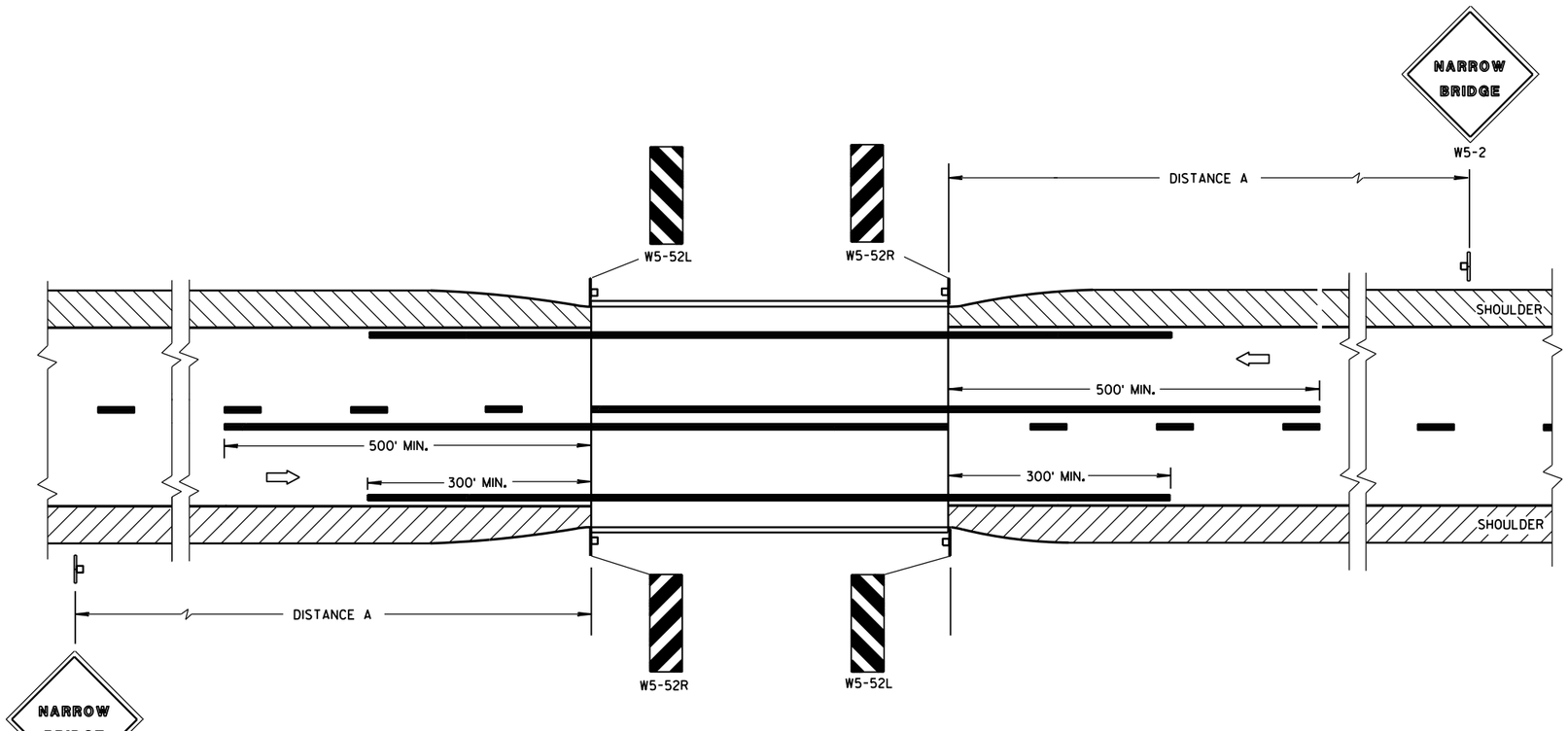
APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C05 - 05



SITUATION 1

WARRANTING CRITERIA:

BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

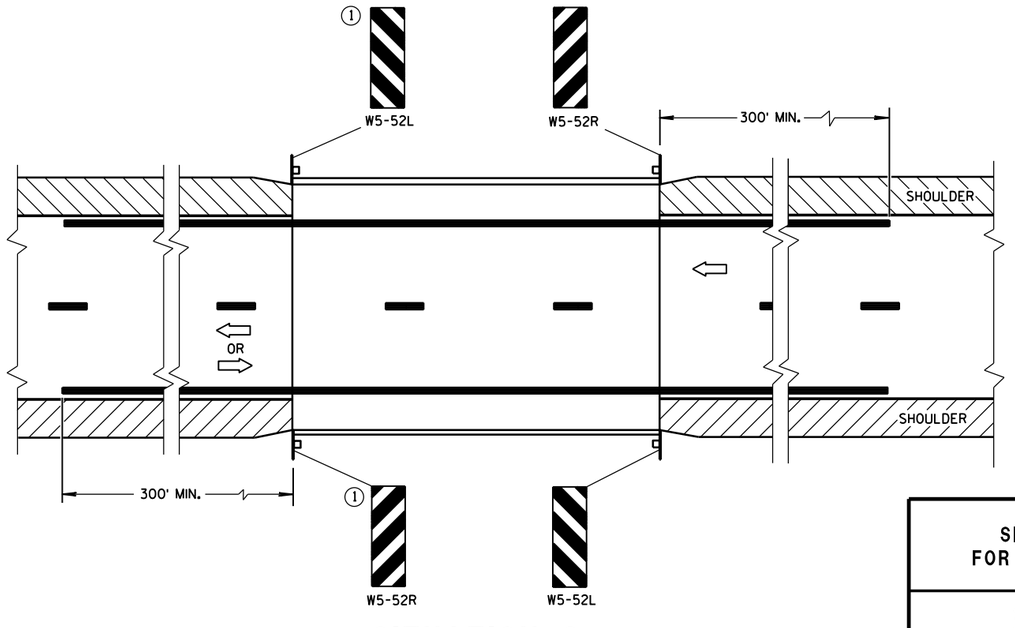
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

(1) OMIT ON ONE-WAY TRAVELLED WAYS.

⇨ DIRECTION OF TRAFFIC



SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

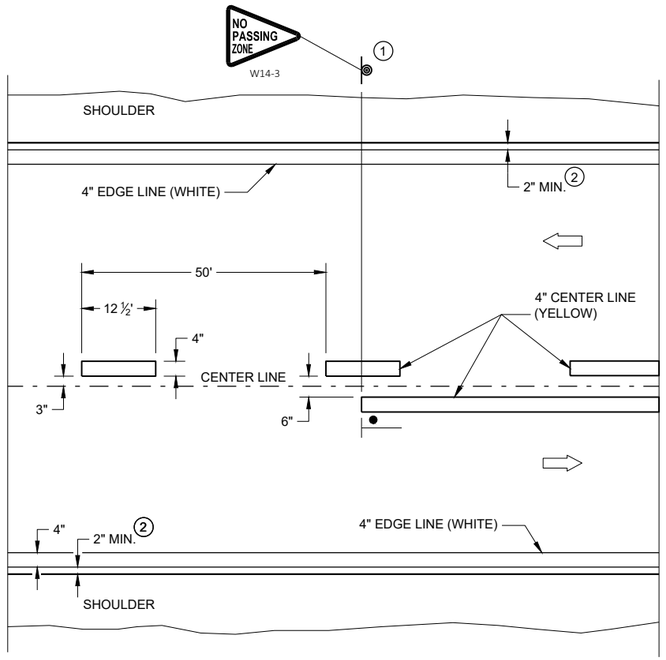
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

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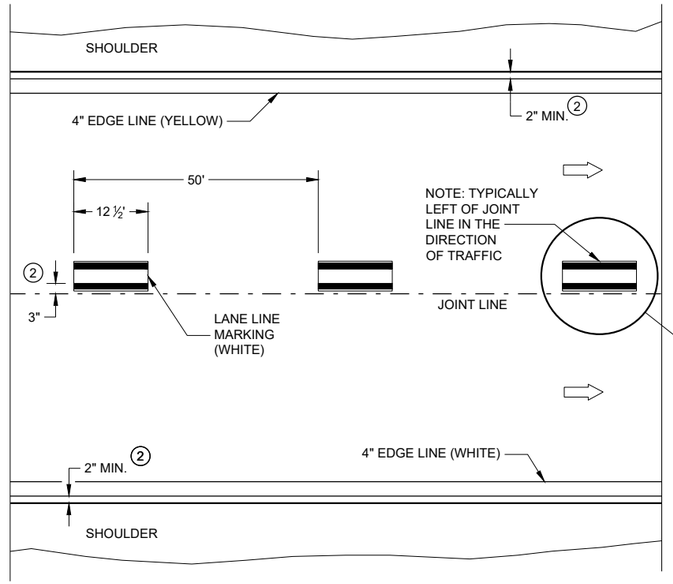
S.D.D. 15 C 6-9

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S.D.D. 15 C 6-9

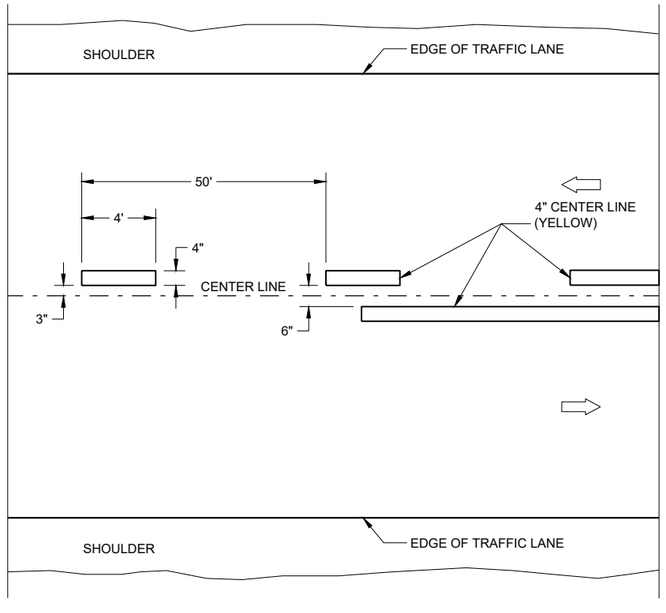


TWO WAY TRAFFIC

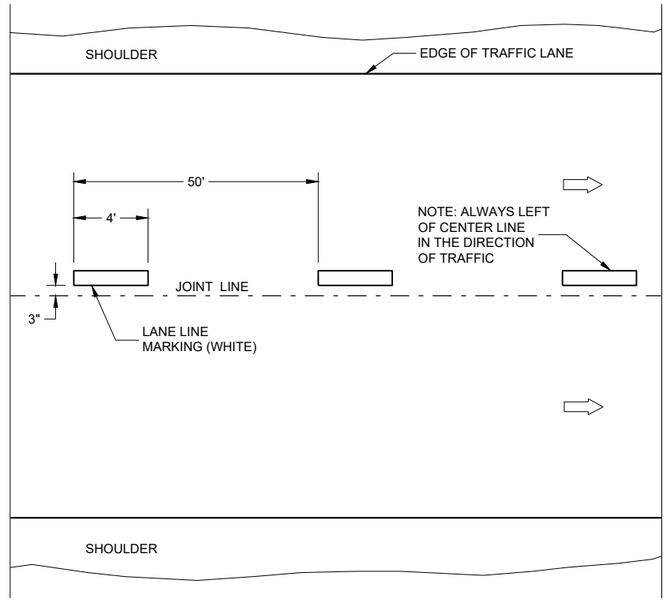


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

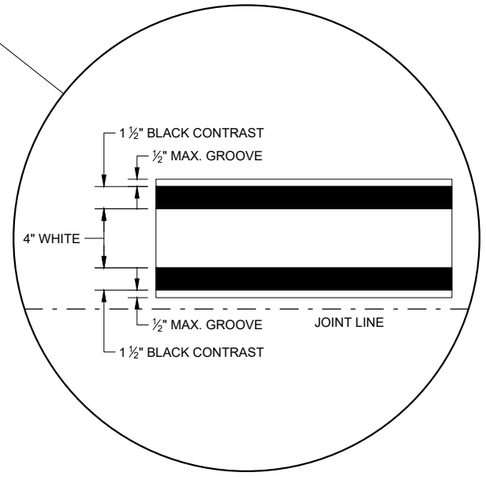
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND M ENGINEER

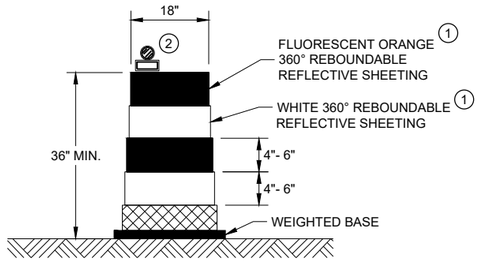
FHWA

SDD 15C08 - 20a

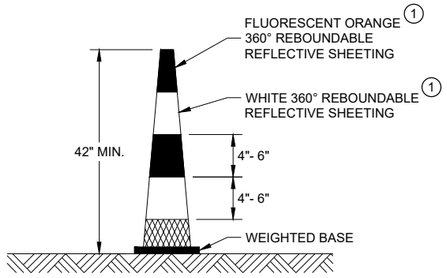
SDD 15C08 - 20a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

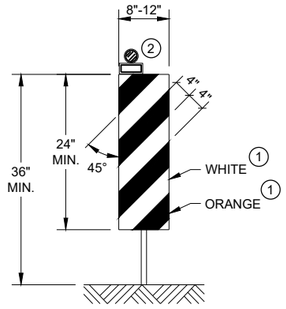


DRUM



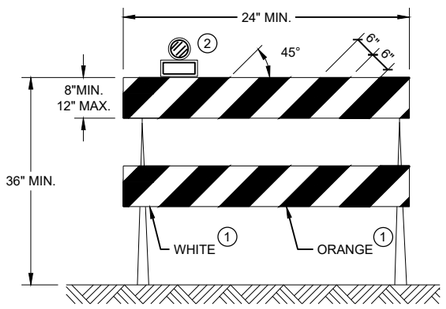
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



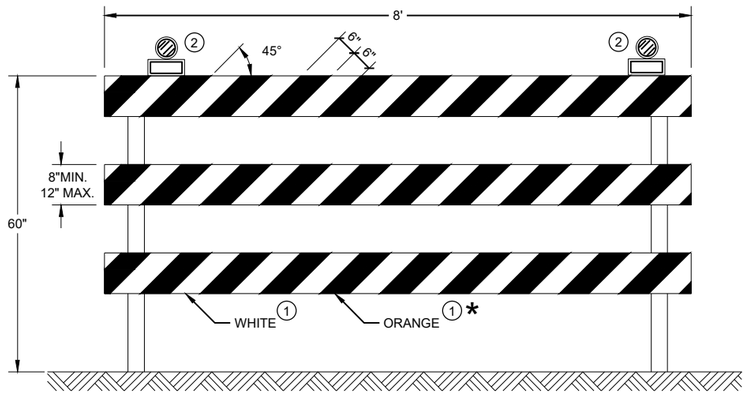
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C11 - 07b

6

SDD 15C11 - 07b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

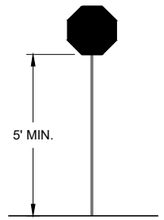
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

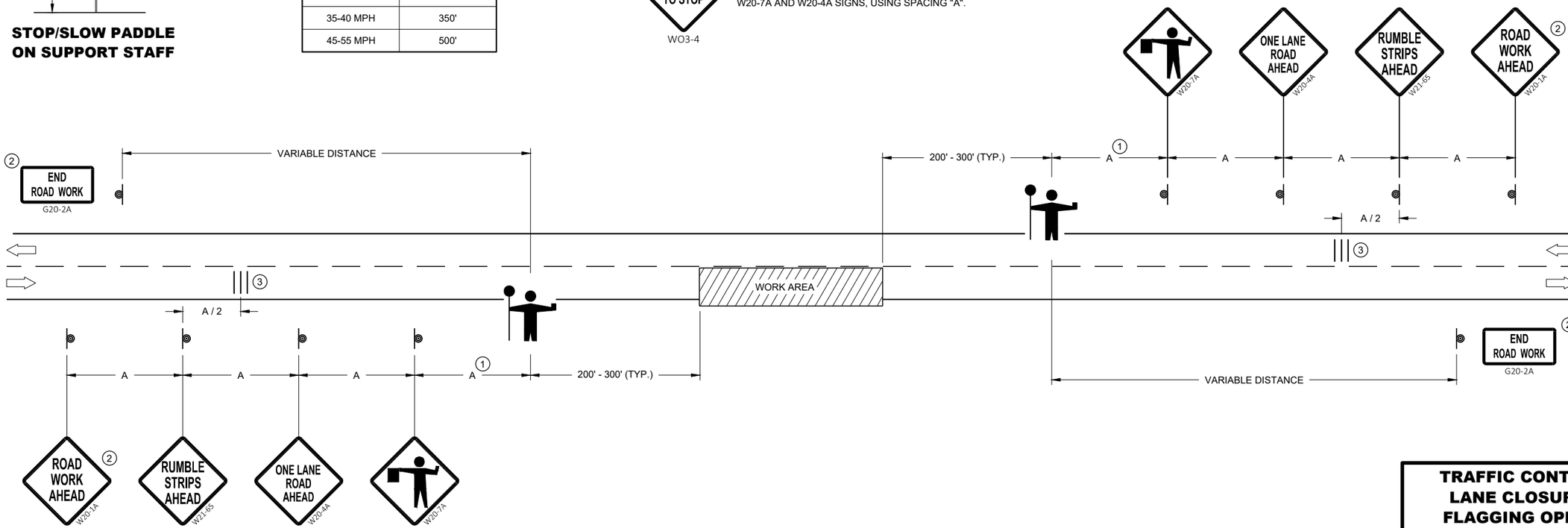
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	130

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SDD 15C12 - 07

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

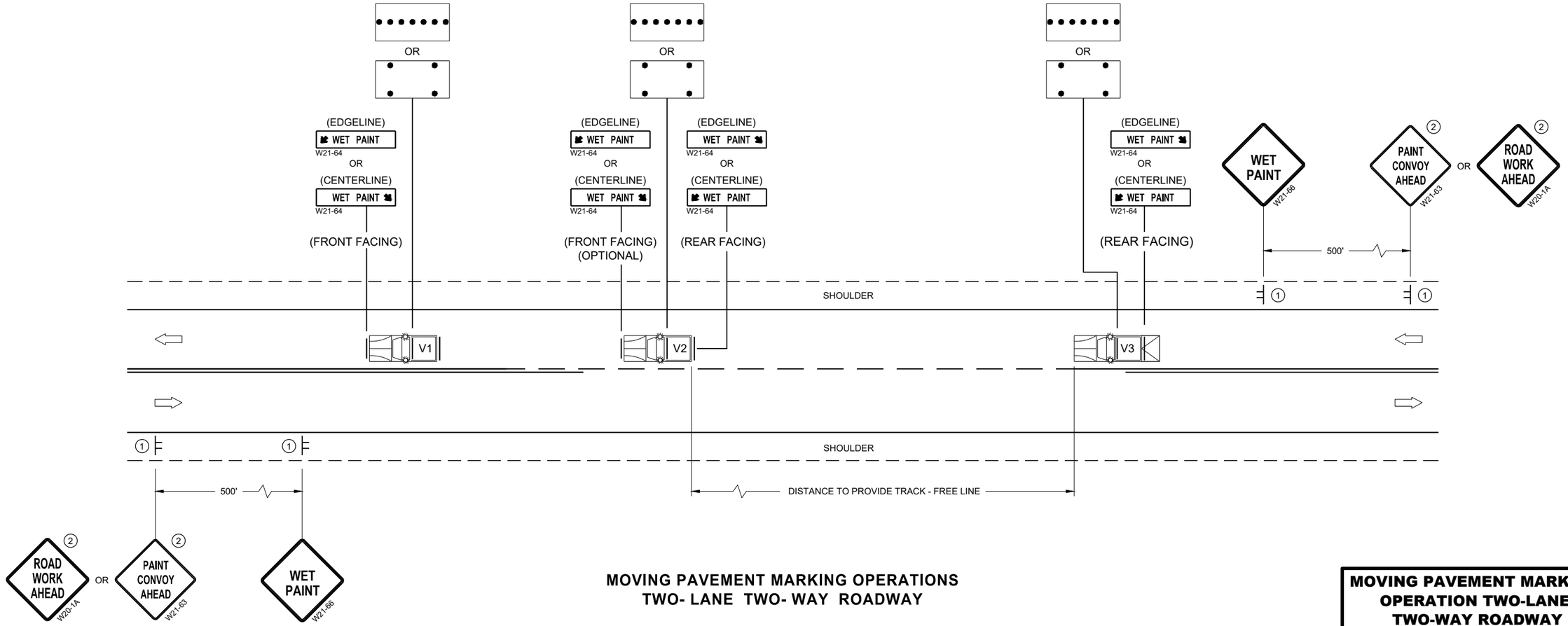
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 18" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

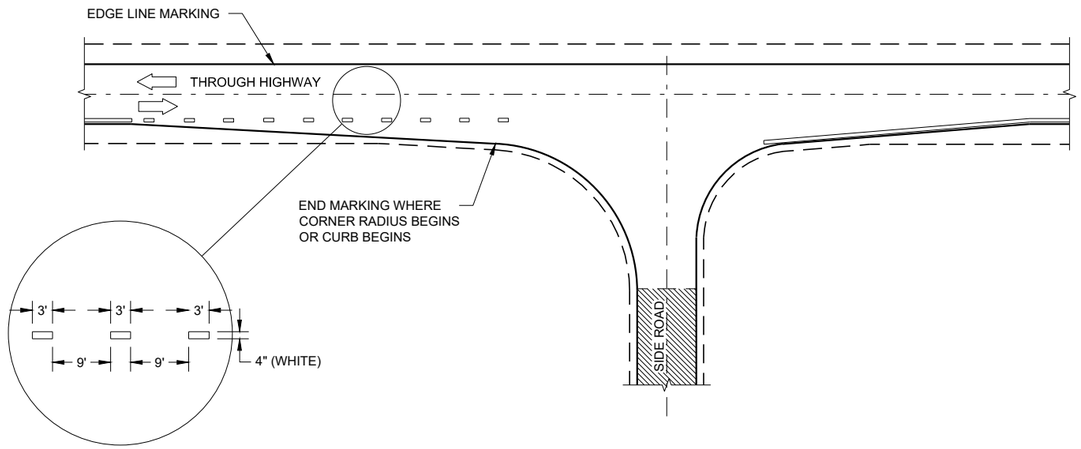
APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

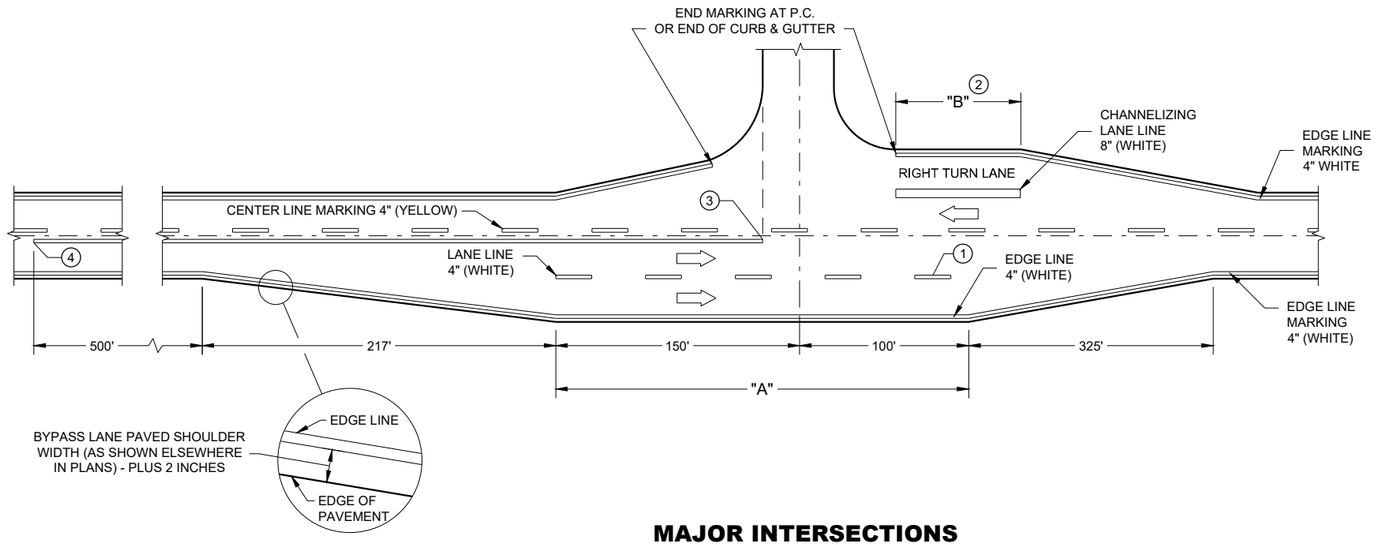
FHWA

SDD 15C19 - 06a

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MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

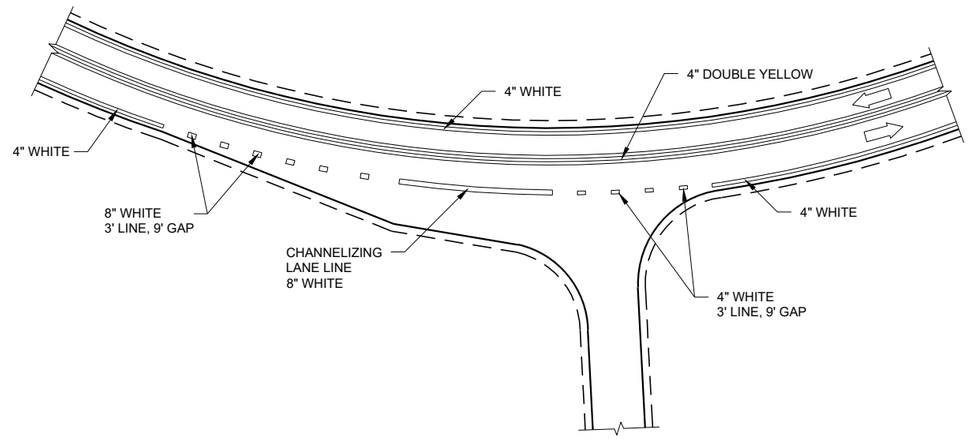
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

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

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 15C35 - 04a

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SDD 15C35 - 04a

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

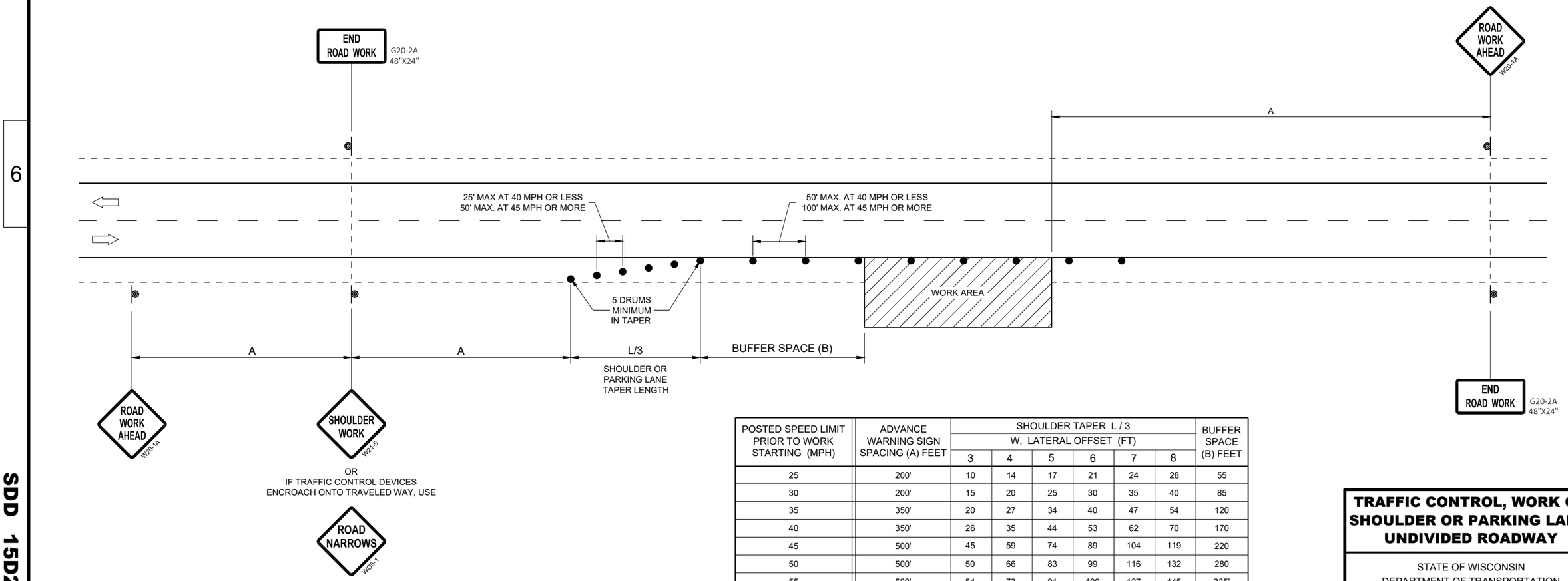
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

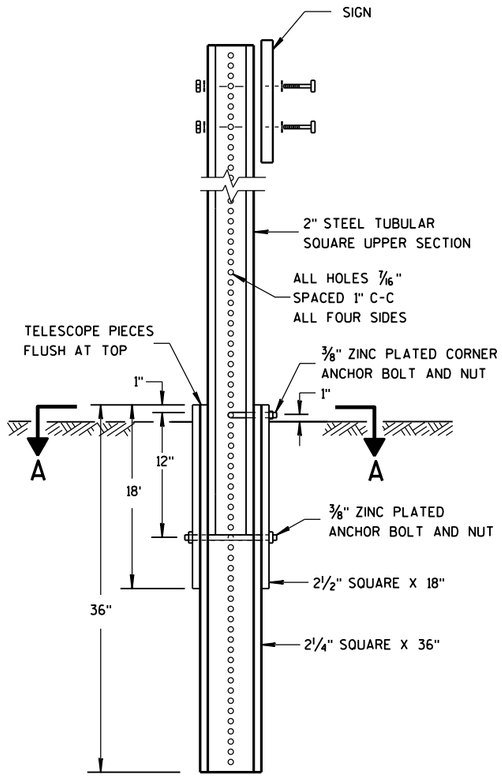
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

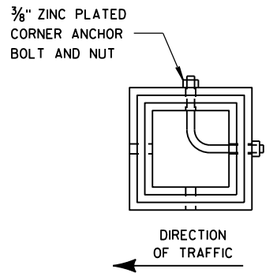
FHWA

SDD 15D28 - 04

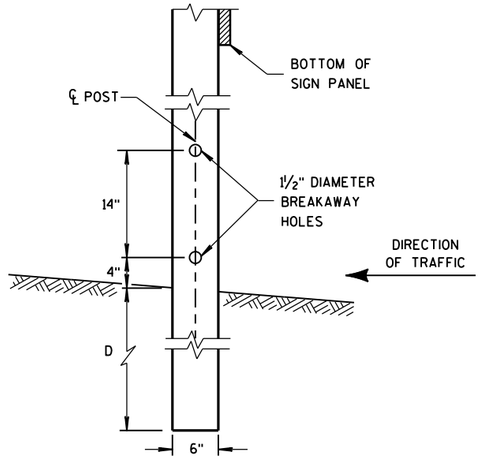
SDD 15D28 - 04



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



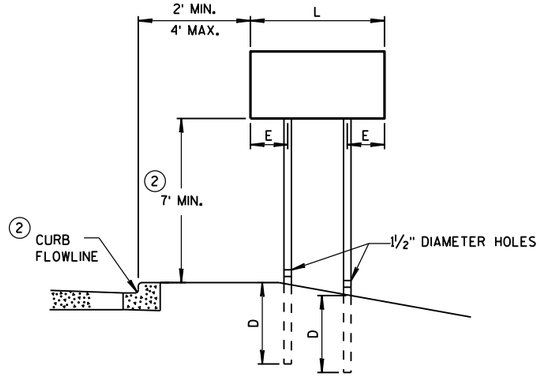
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

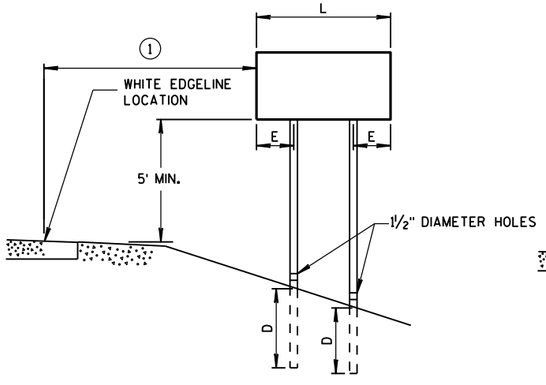
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

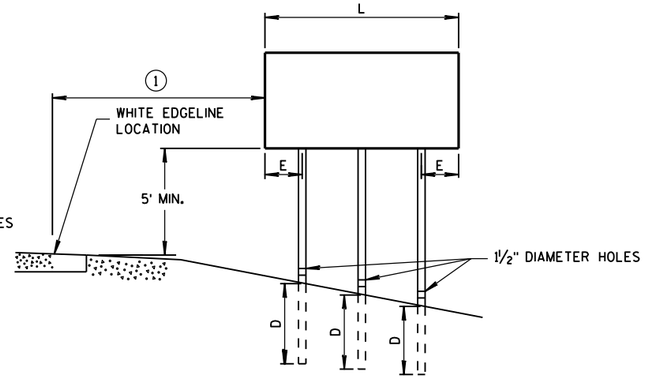
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. 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 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

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

4" X 6" WOOD POST

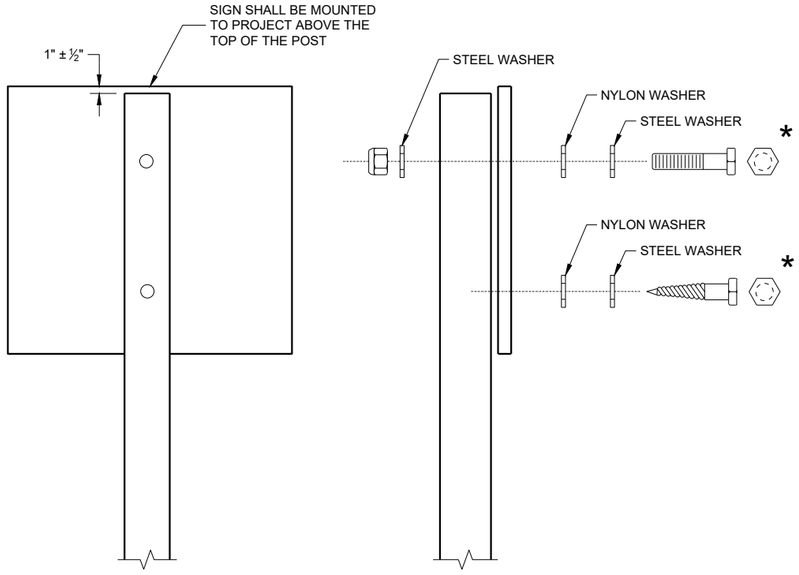
POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 15 D 38-2a



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

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

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

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 NYLON

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

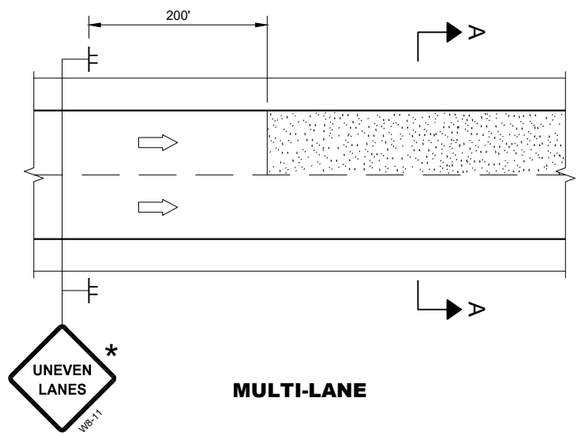
SDD 15D38 - 02b

SDD15D38 - 02b

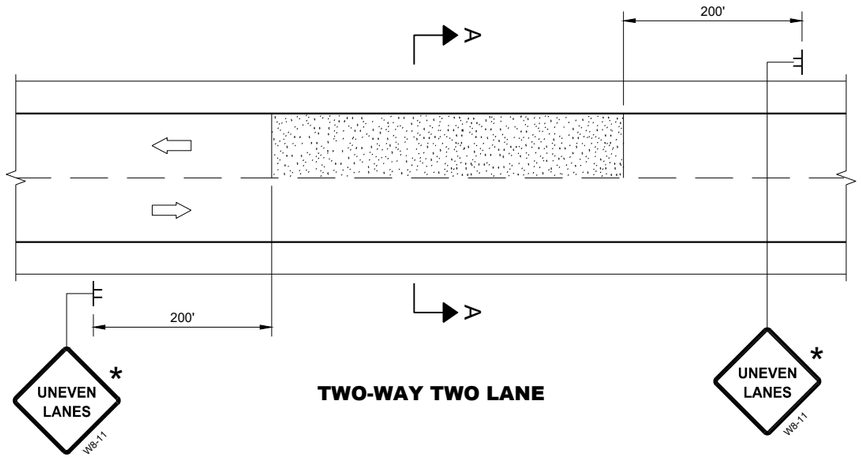
ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA



MULTI-LANE



TWO-WAY TWO LANE

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

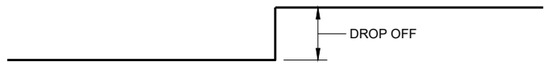
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

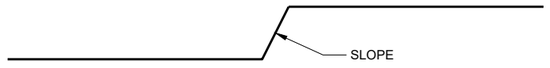
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

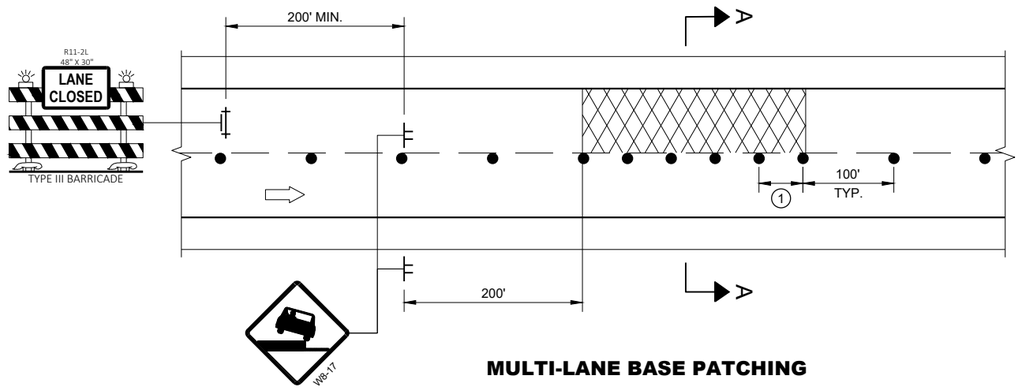


SECTION A - A

OR

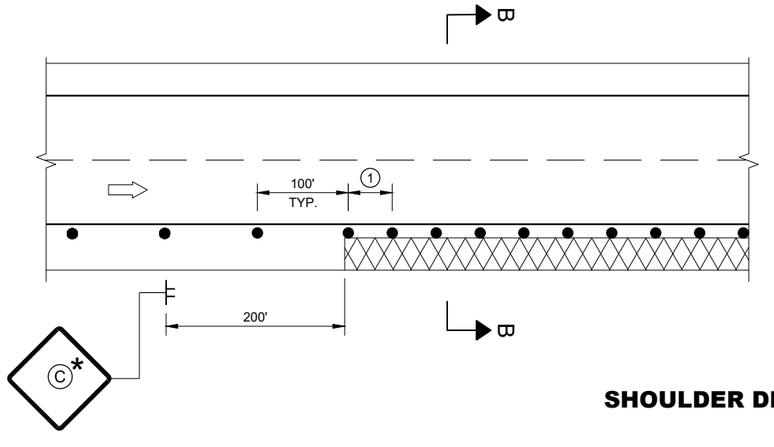


SECTION A - A

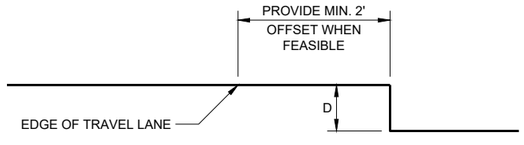


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D39 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

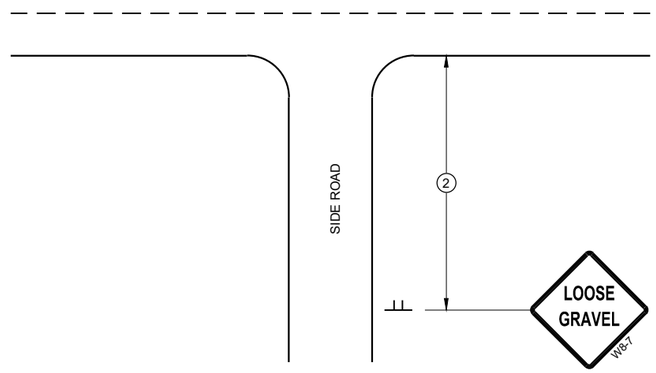
(1) PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

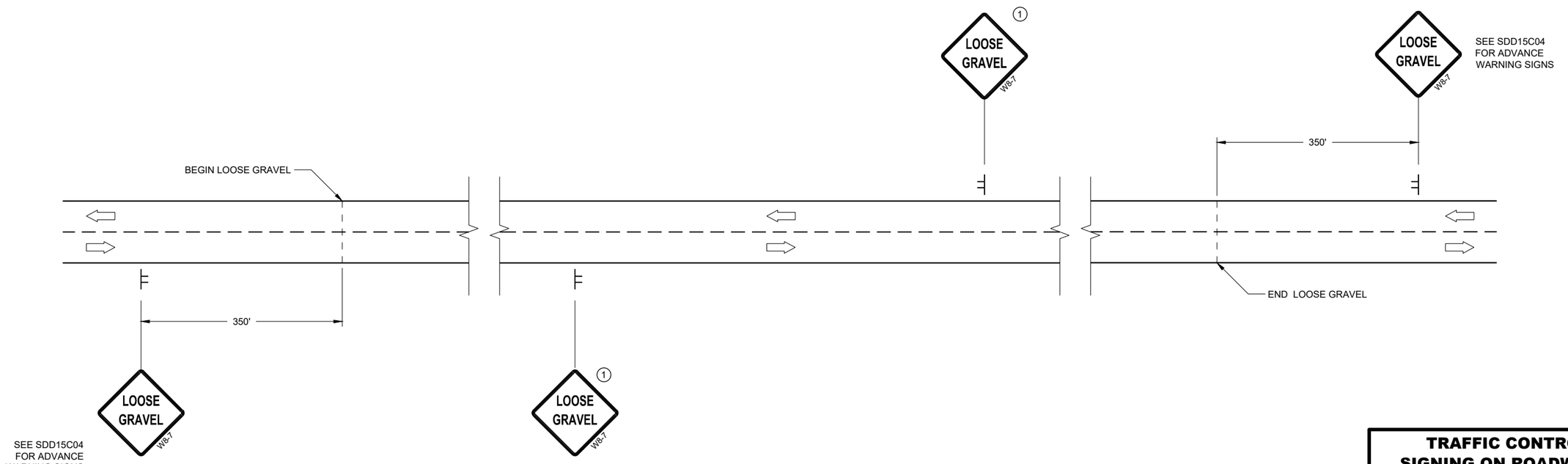
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

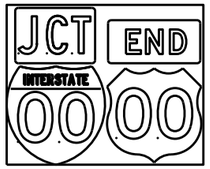
6

SDD 15D45 - 02

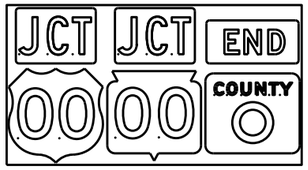
TYPICAL ASSEMBLIES



J1-1



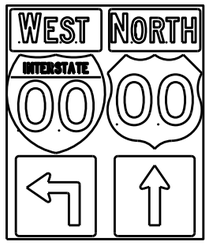
J1-2



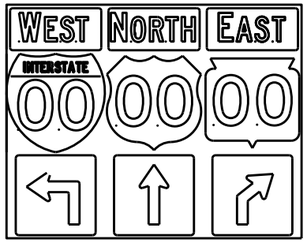
J1-3



J2-1



J2-2

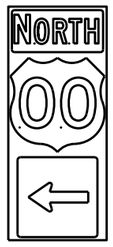


J2-3

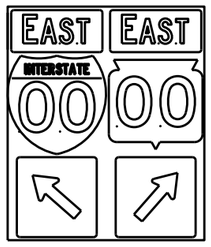


JV

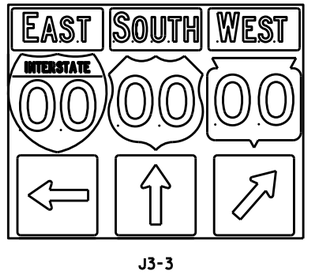
(Typical Vertical J-Assembly
See Note 10 and 11)



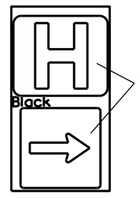
J3-1



J3-2



J3-3

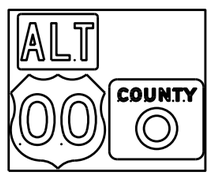


Blue Background

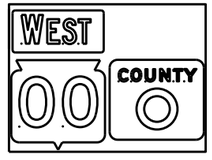
JH-1



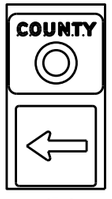
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

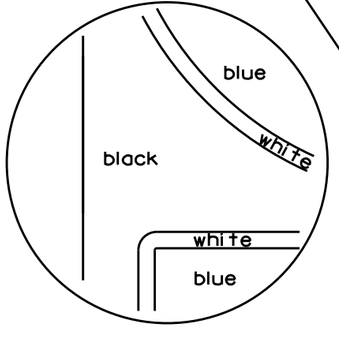


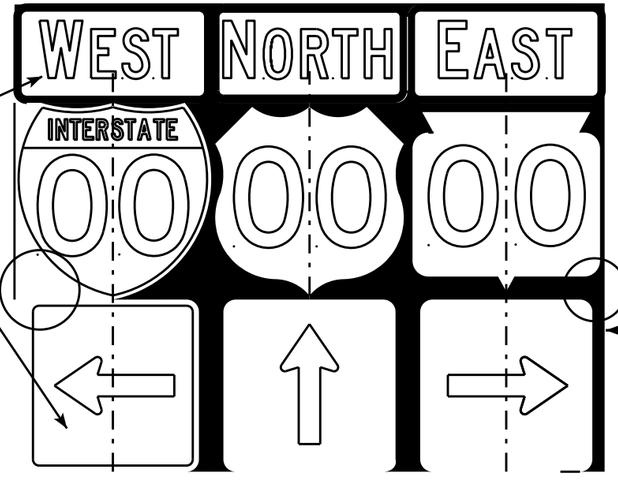
J23-1

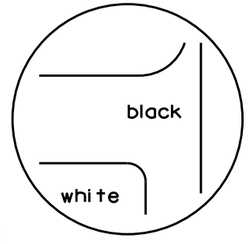


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater 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.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

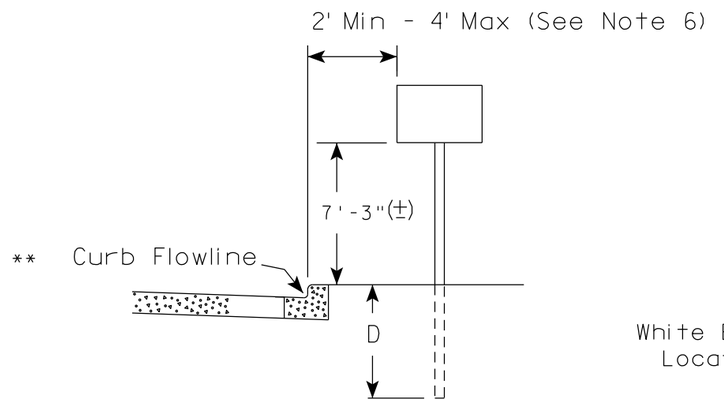
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

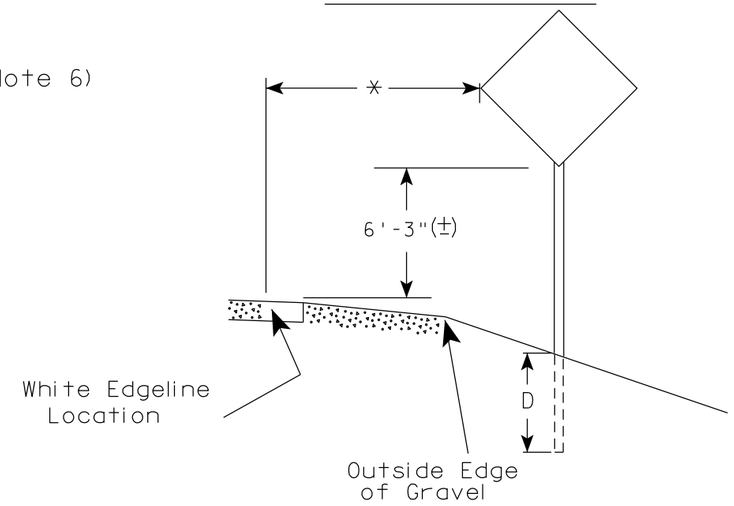
DATE 2/06/14 PL... A2-1S.8

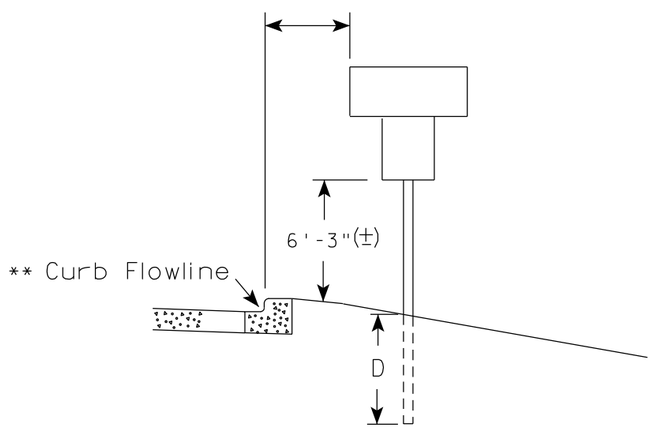
PROJECT NO: | SHEET NO: E

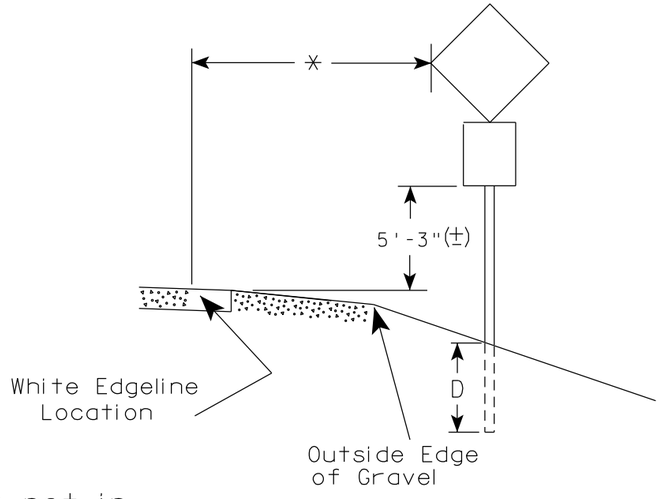
URBAN AREA



RURAL AREA (See Note 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. Offset of signs is measured from the flow line.

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

POST EMBEDMENT DEPTH

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

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 or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

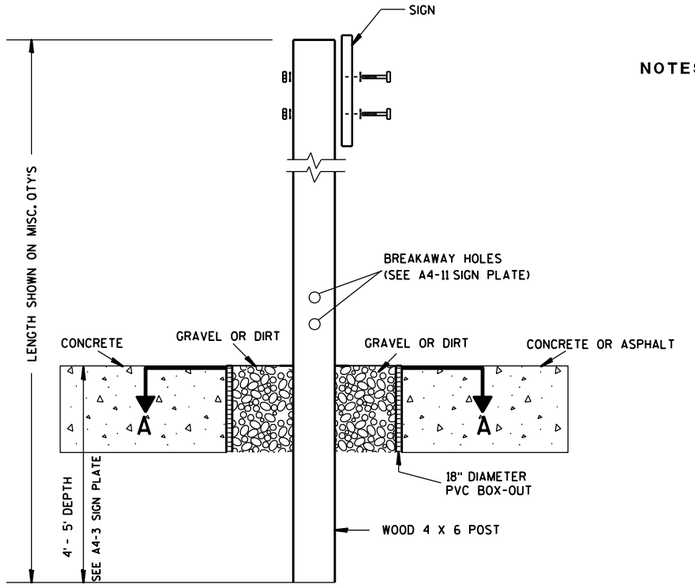
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

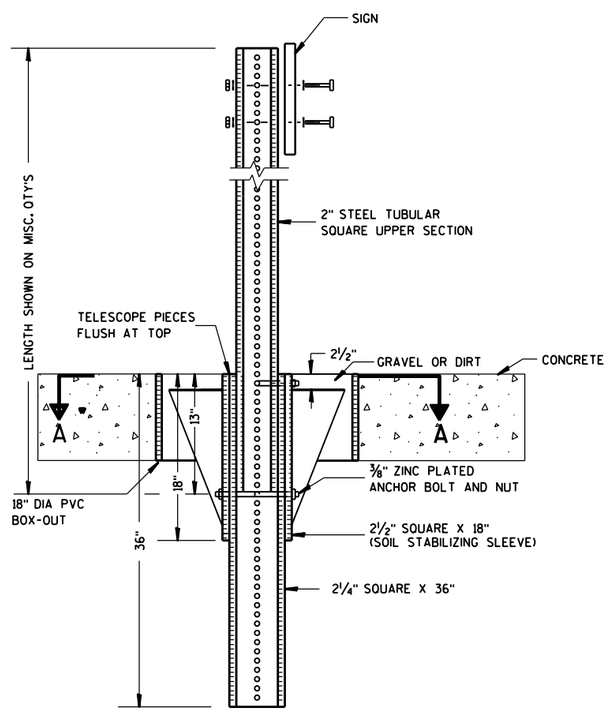
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 139	E



ELEVATION VIEW

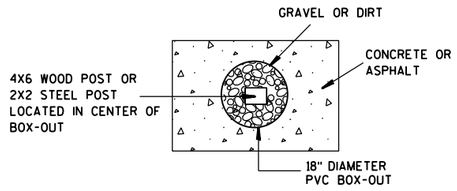
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

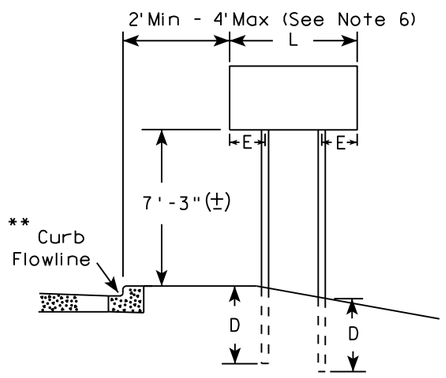
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

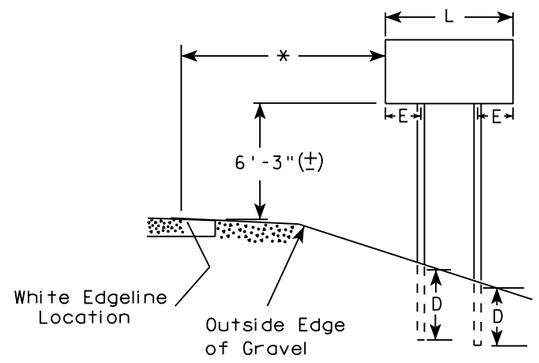
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

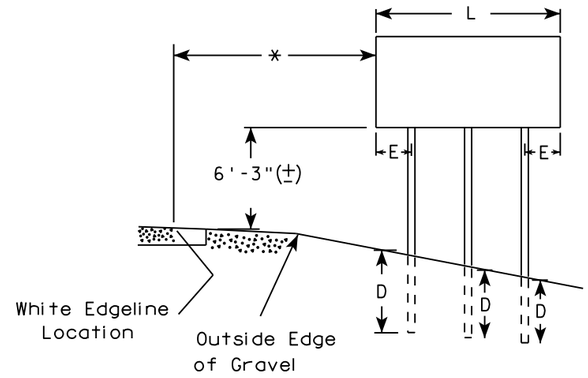
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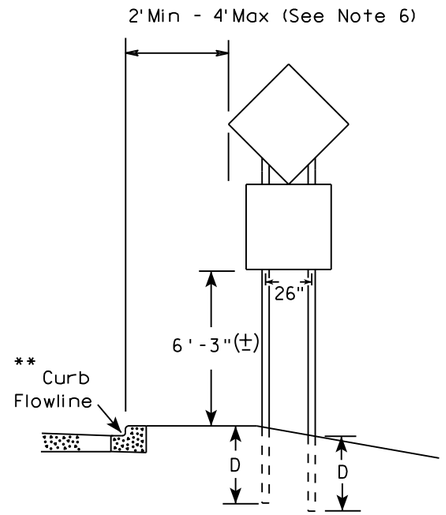
URBAN AREA



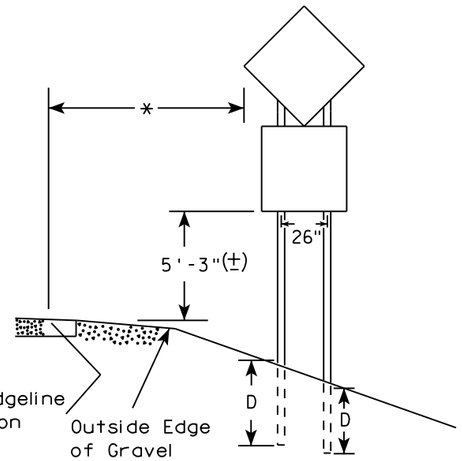
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

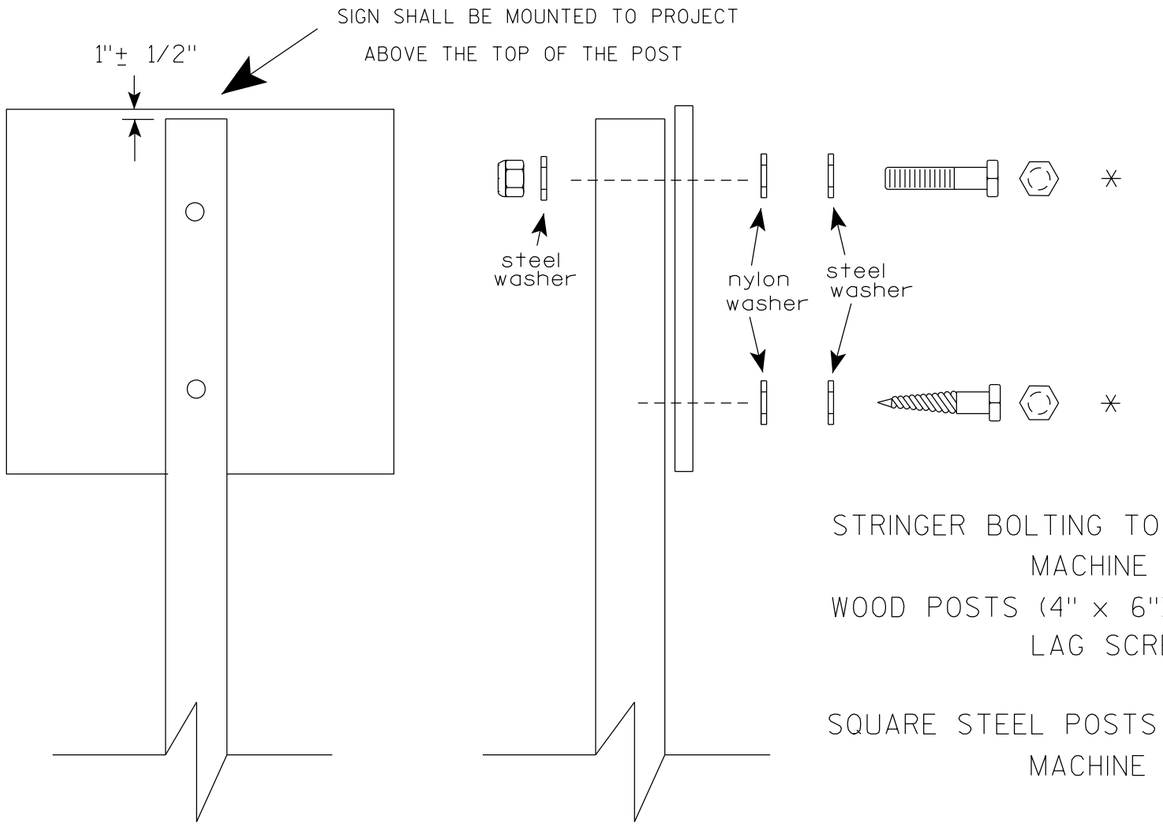
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 141	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

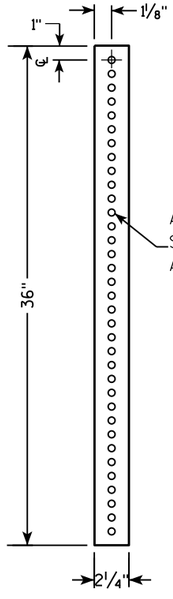
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

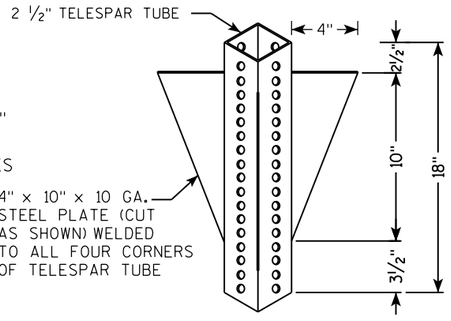
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

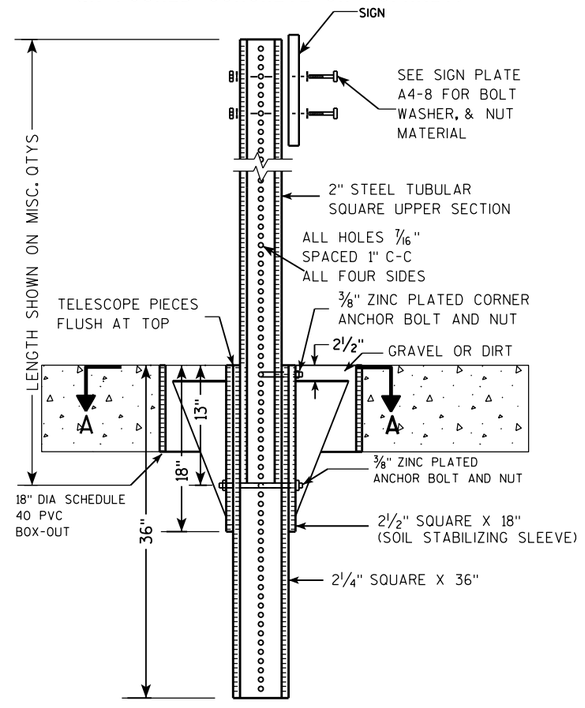
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



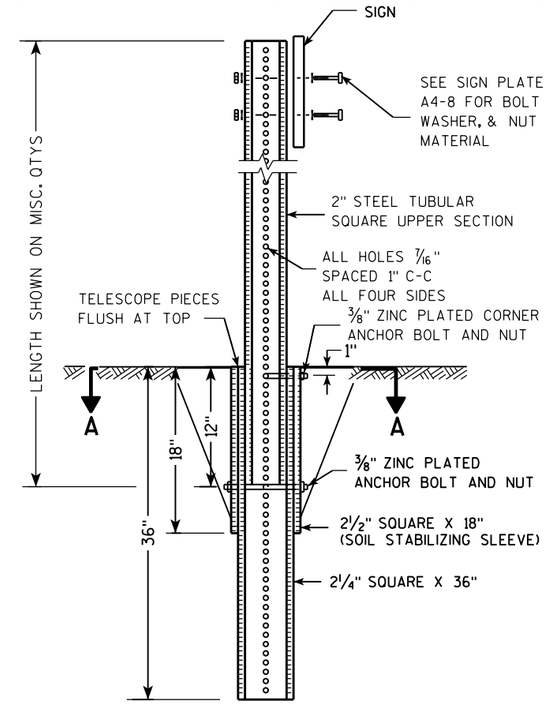
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

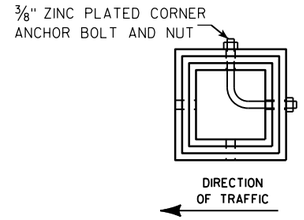


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required 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 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

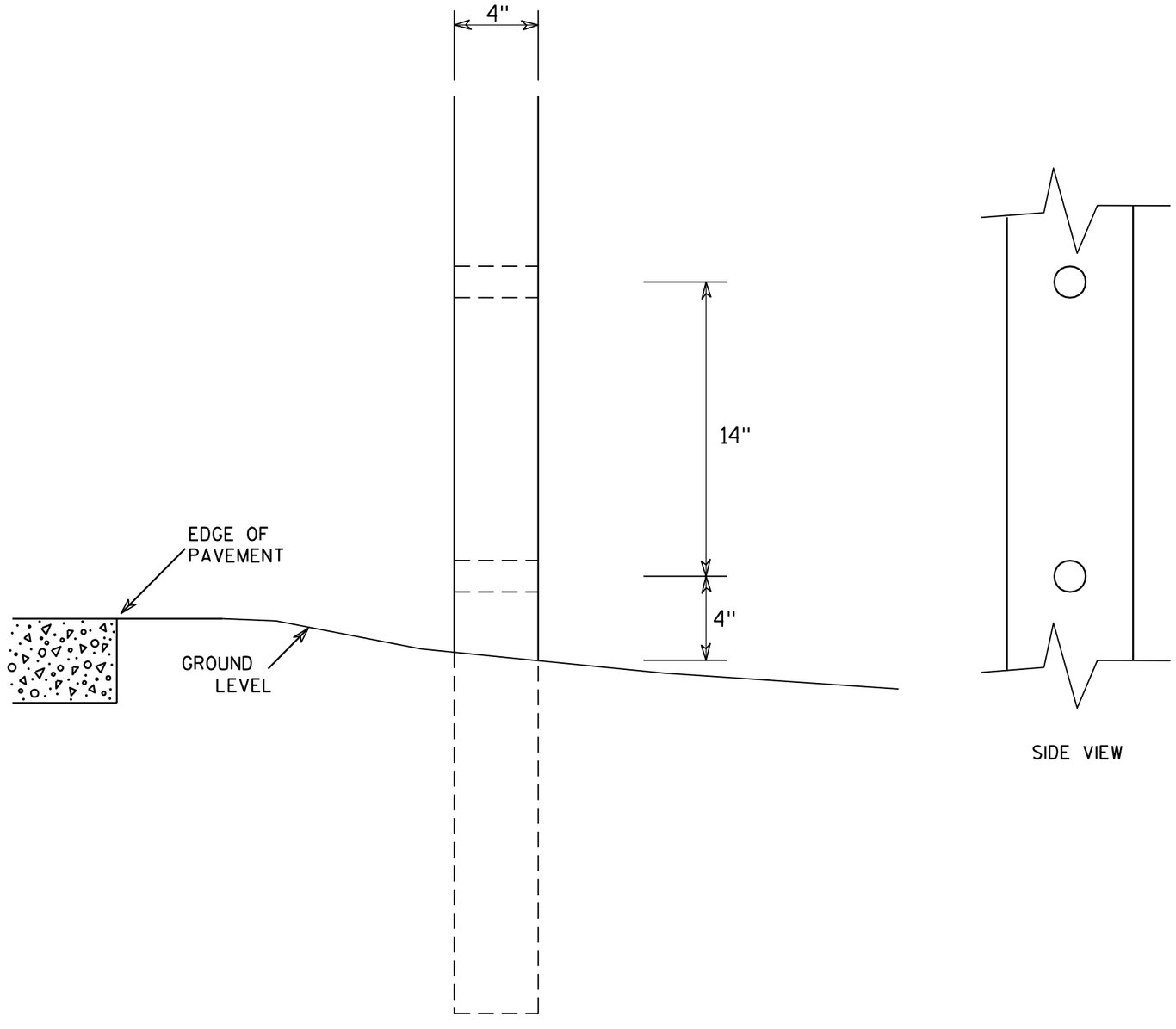
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

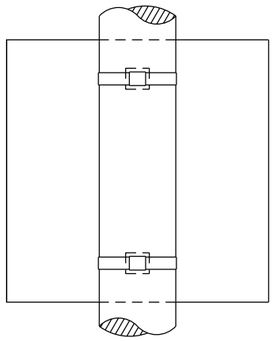
APPROVED Chester J Spang for State Traffic Engineer

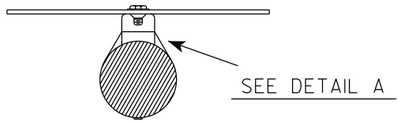
DATE 3/27/97 PLATE NO. A4-11.2

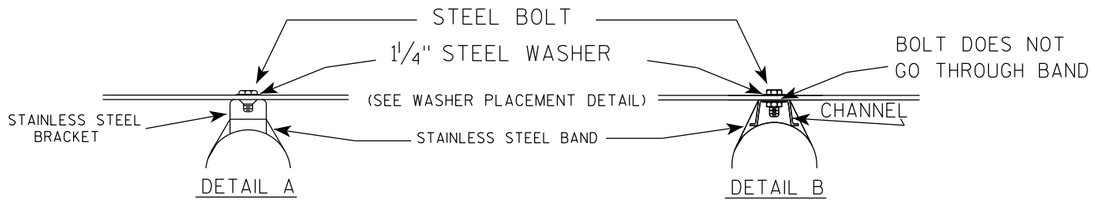
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 144	E

BANDING

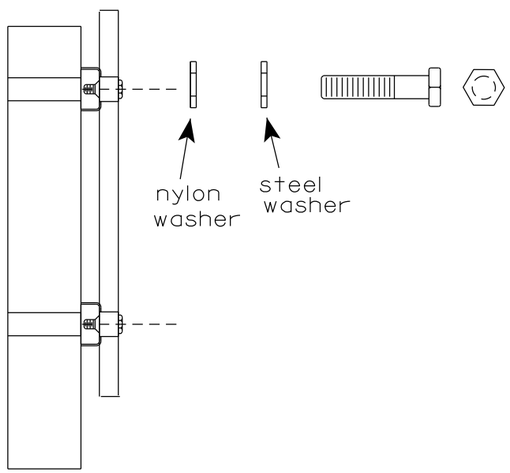
SINGLE SIGN







WASHER PLACEMENT

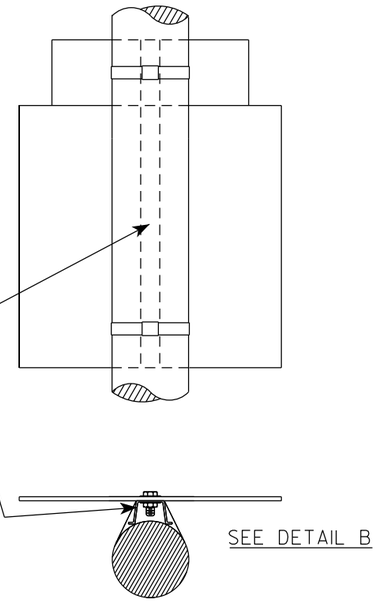


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

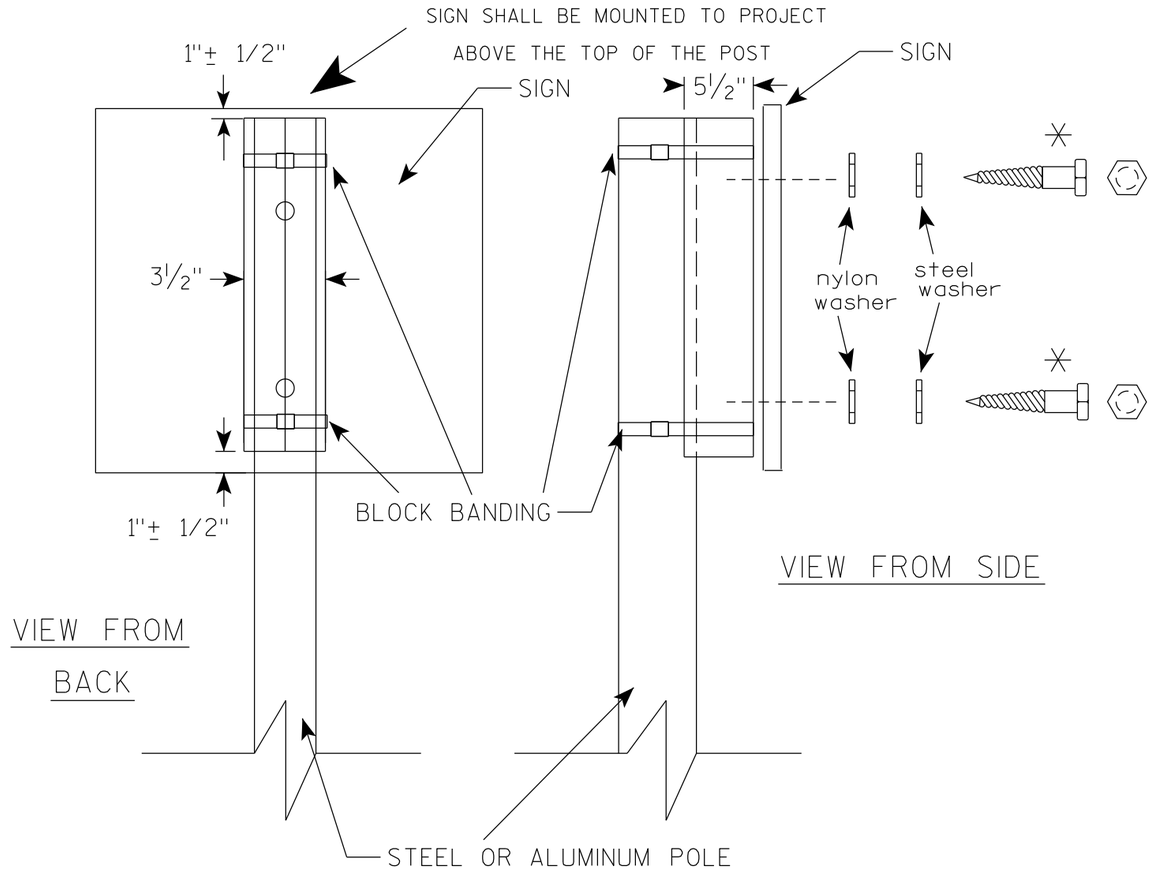
DATE 6/10/19 PLATE NO. A5-9.4

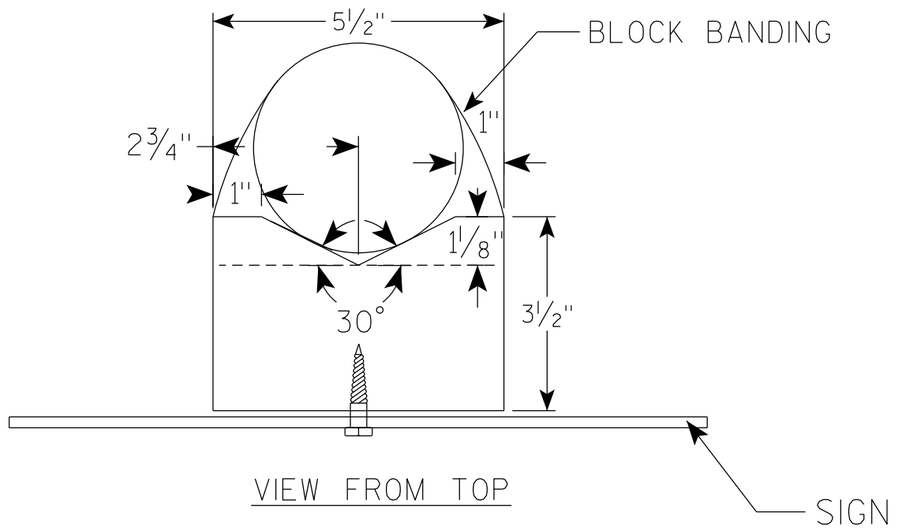
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 145	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





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, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:

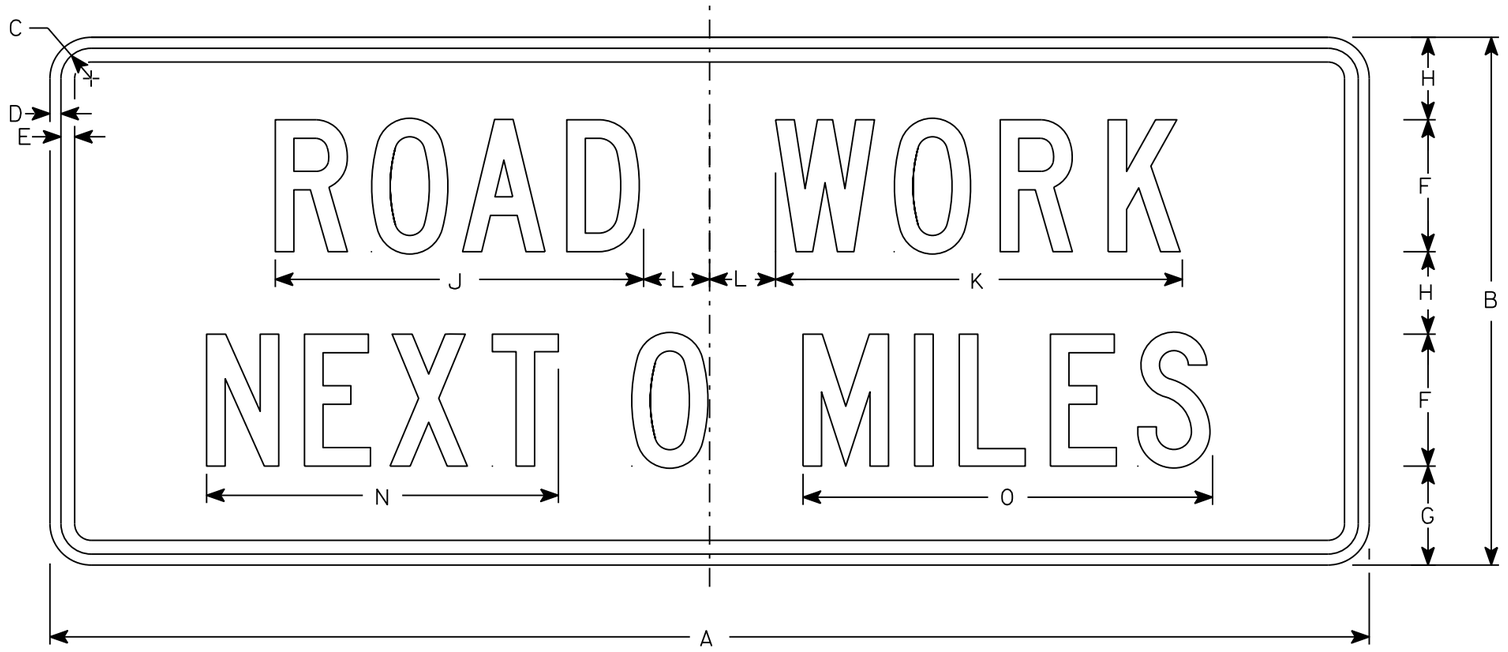
SHEET NO: 146 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn PLOT DATE : 10-JUN 2019 4:15 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

7

7



G20-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

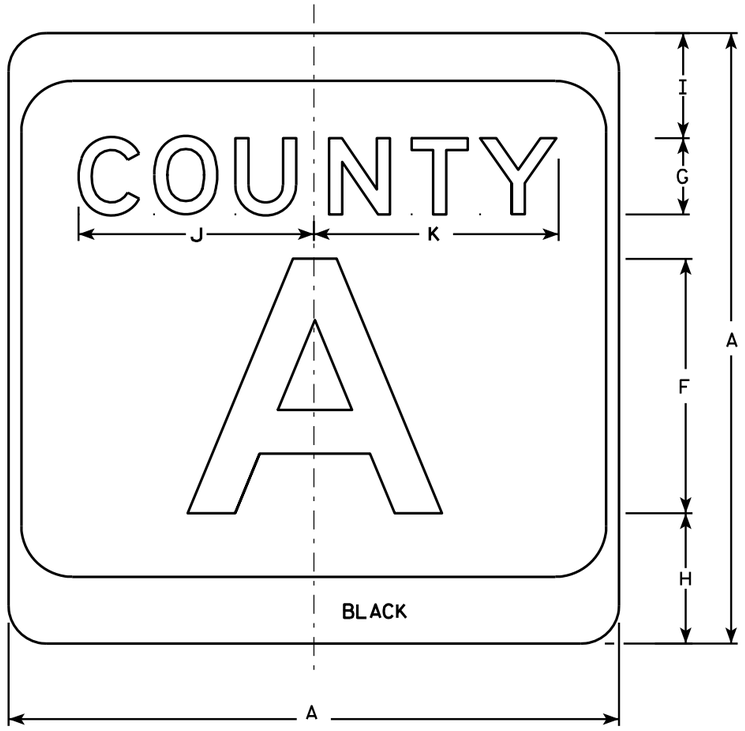
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

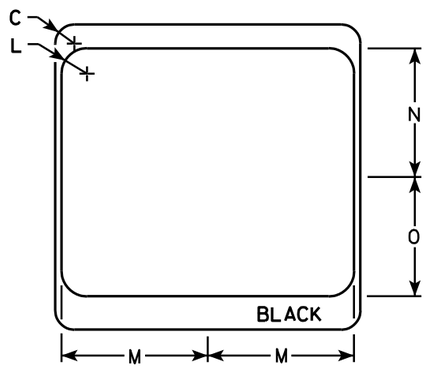
APPROVED Matthew R Rauch
for State Traffic Engineer

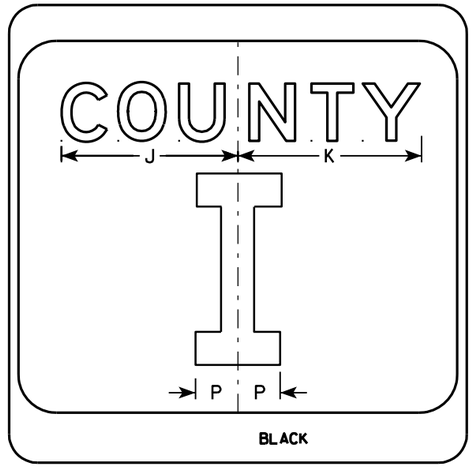
DATE 3/14/17 PLATE NO. G20-1.8

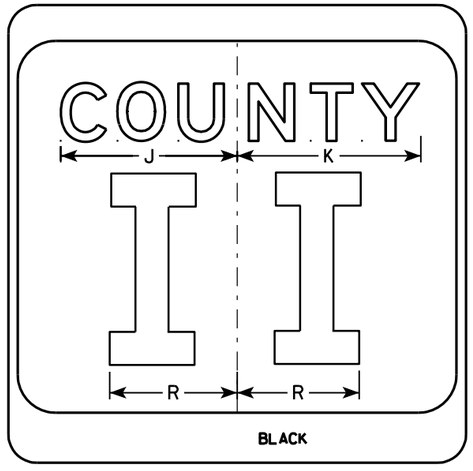
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 147 | E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	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 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
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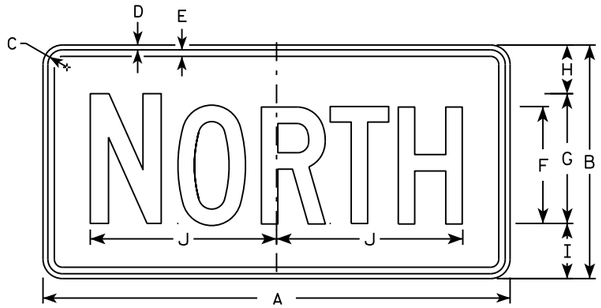
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

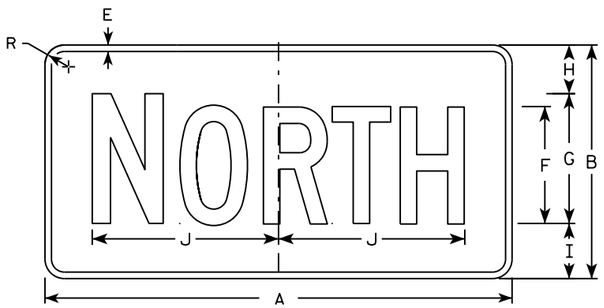
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 148	E



M3-1
MM3-1
MP3-1



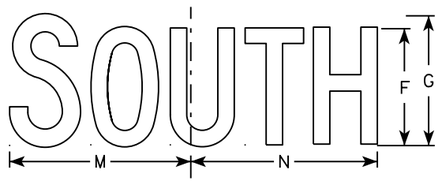
MB3-1
MK3-1
MN3-1



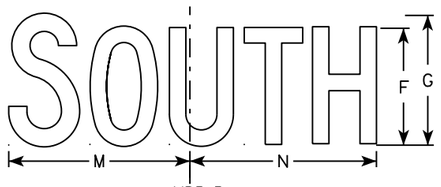
M3-2
MM3-2
MP3-2



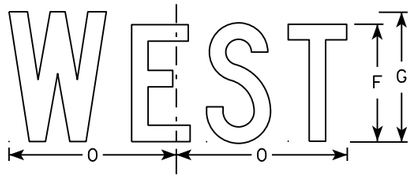
MB3-2
MK3-2
MN3-2



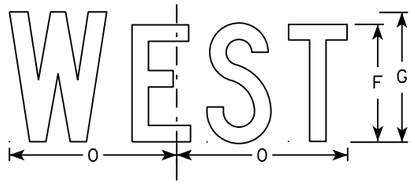
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

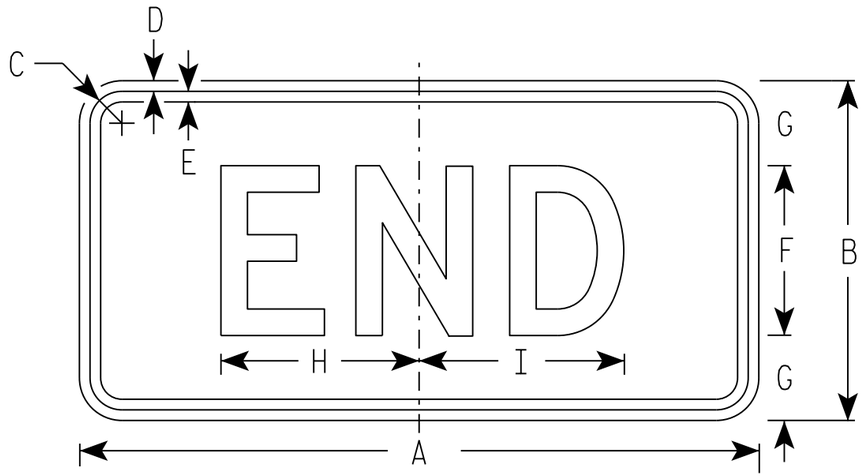
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

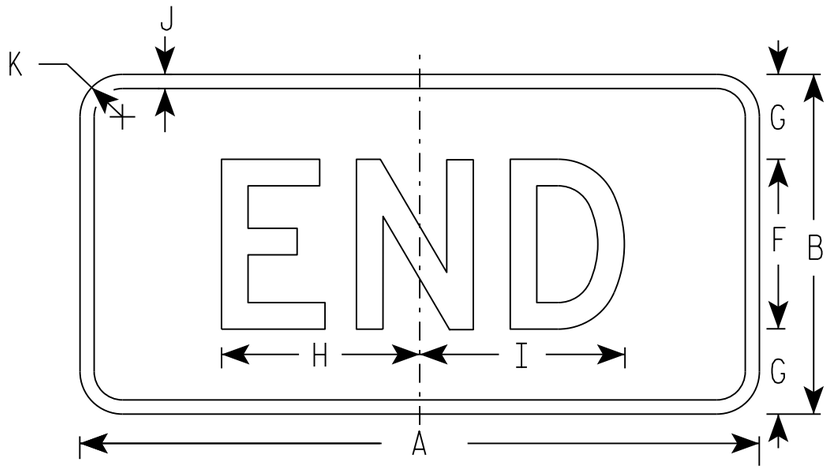
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-6 Background - White
   Message - Black

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-6

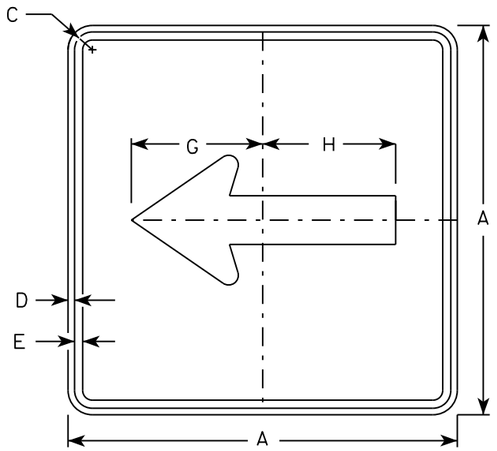
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

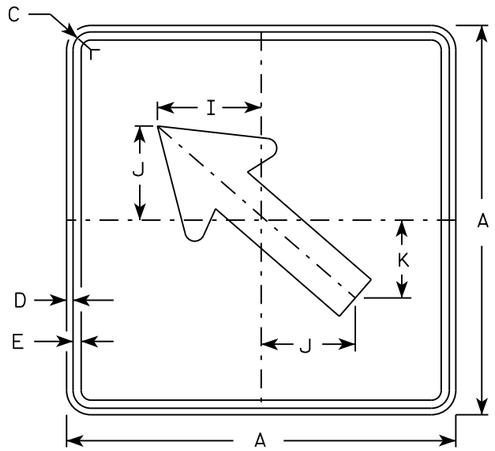
DATE 10/15/15 PLATE 150 '14-7.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M46.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



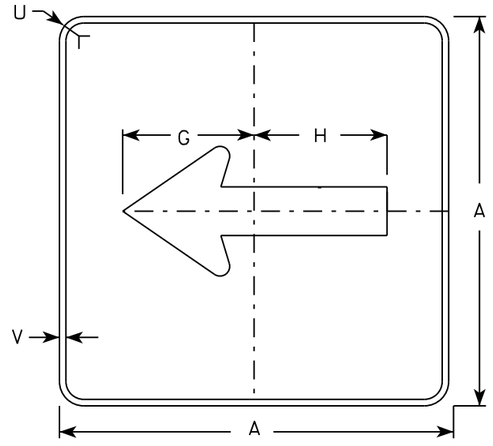
M6-1
MM6-1
MO6-1
MP6-1



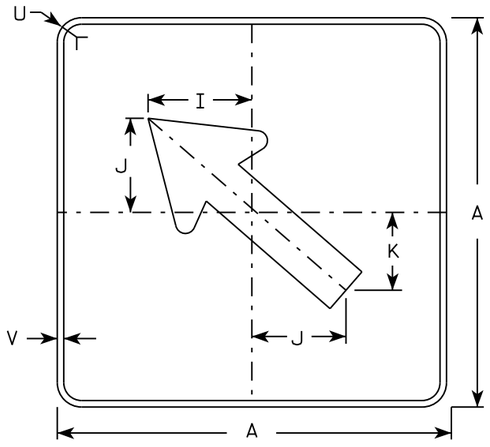
M6-2
MM6-2
MO6-2
MP6-2

NOTES

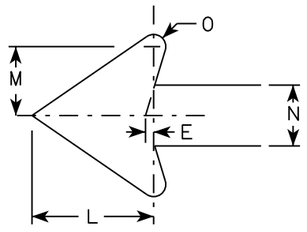
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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
   MO6-1 and MO6-2 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



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	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	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	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 7/8	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 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

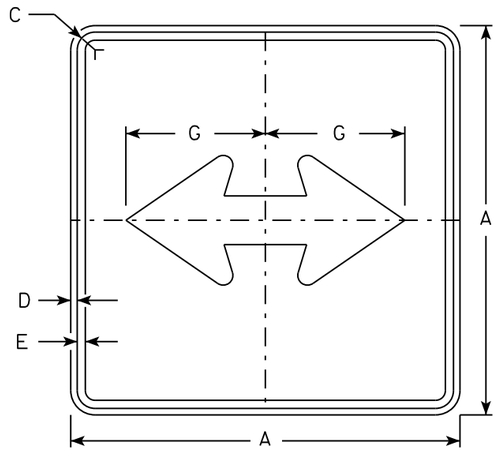
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

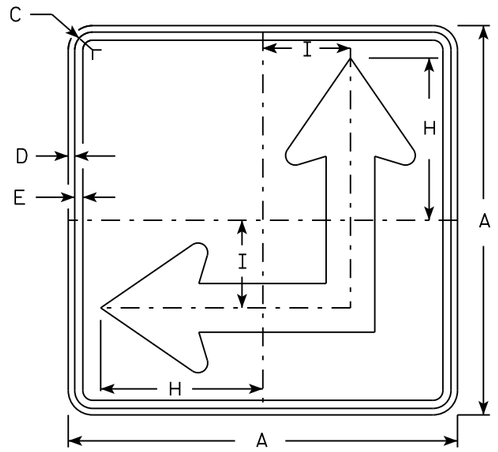
DATE 10/15/15 PLATE 151 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



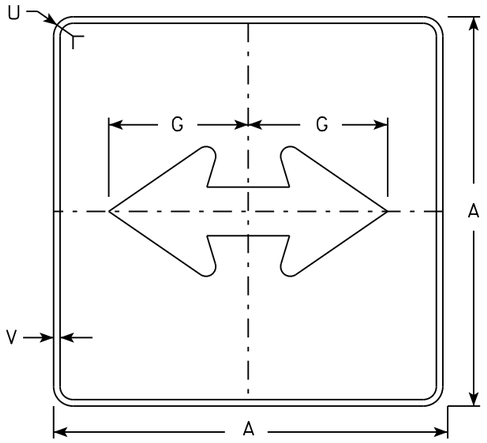
M6-4
MM6-4
MO6-4
MP6-4



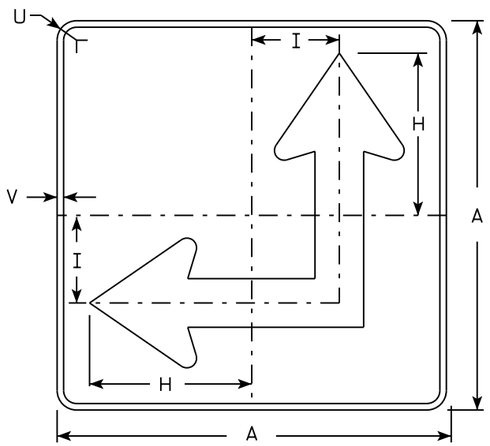
M6-6
MM6-6
MO6-6
MP6-6

NOTES

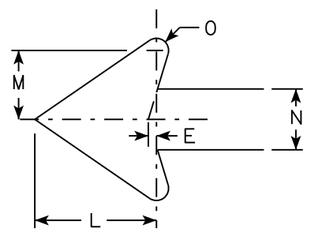
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 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.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	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 7/8	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 7/8	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 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

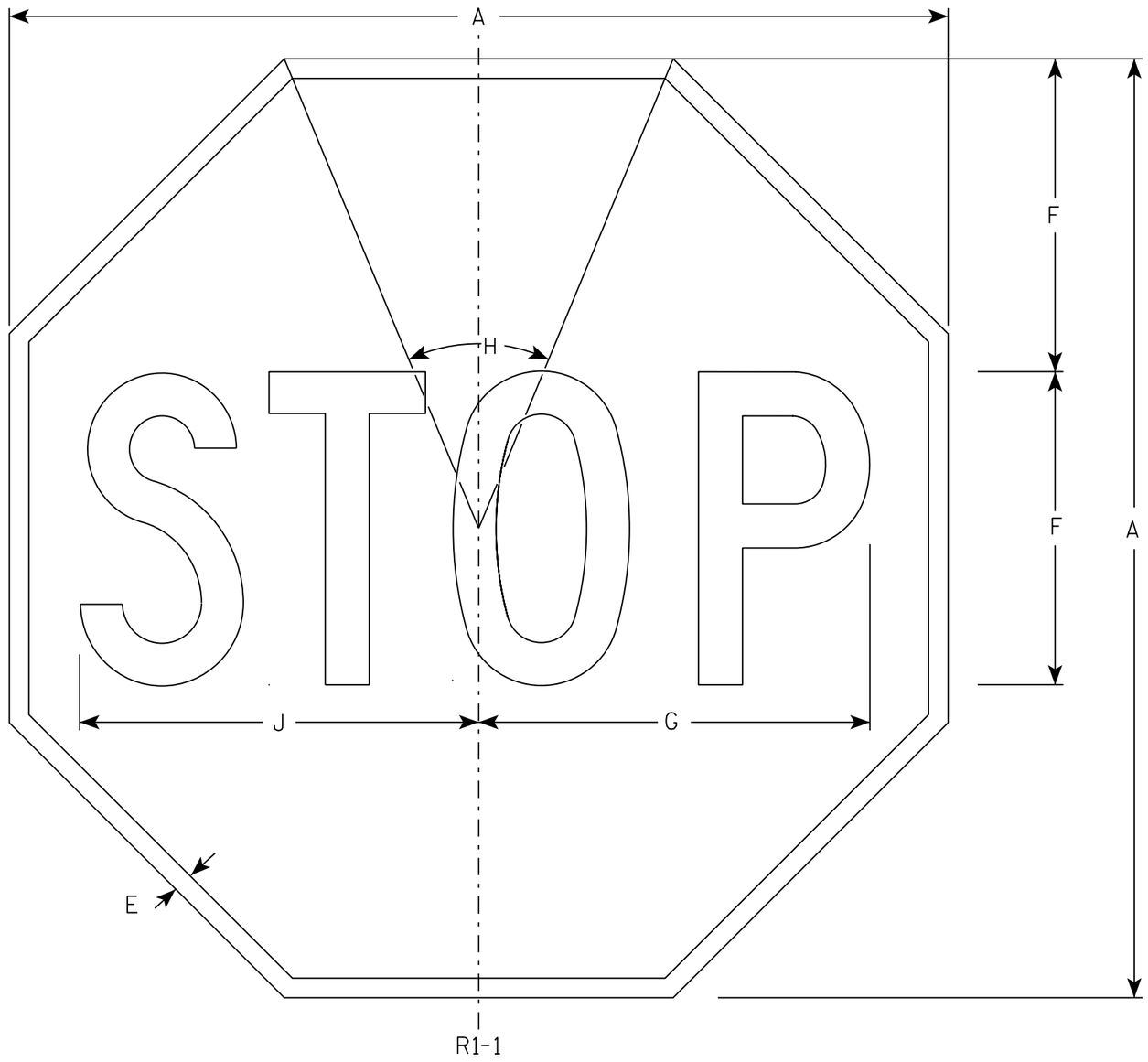
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 152 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : 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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

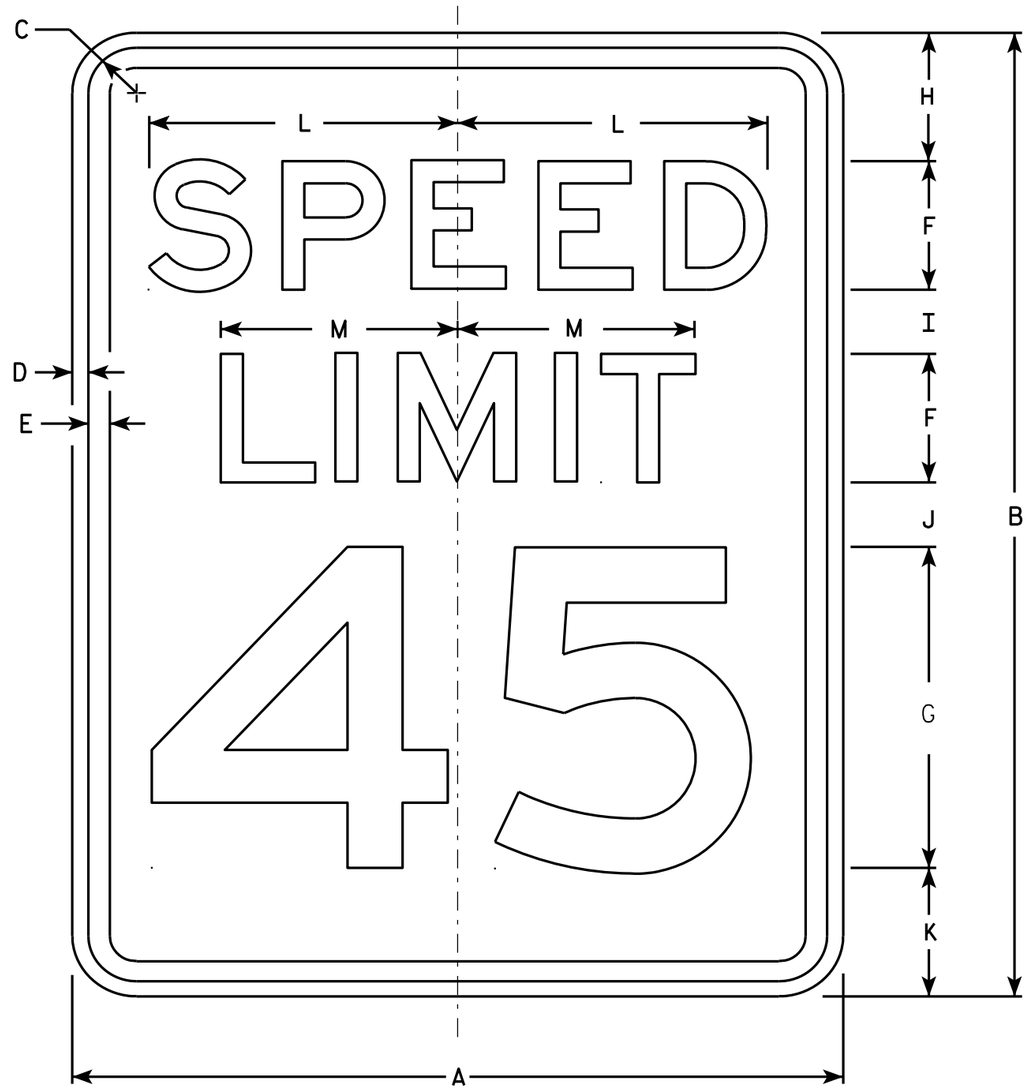
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 153	E



R2-1

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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 154	E



R8-8

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 - 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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 1/4	9 5/8	6 5/8	3 5/8	10														5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 1/4	9 5/8	6 5/8	3 5/8	10														5.0
3	36	48	1 3/8	1/2	5/8	6	6	4	13 7/8	14 3/8	9 7/8	5 3/8	15														12.0
4	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	18 1/2	19 1/4	13 1/4	7 1/4	20														20.0
5																											

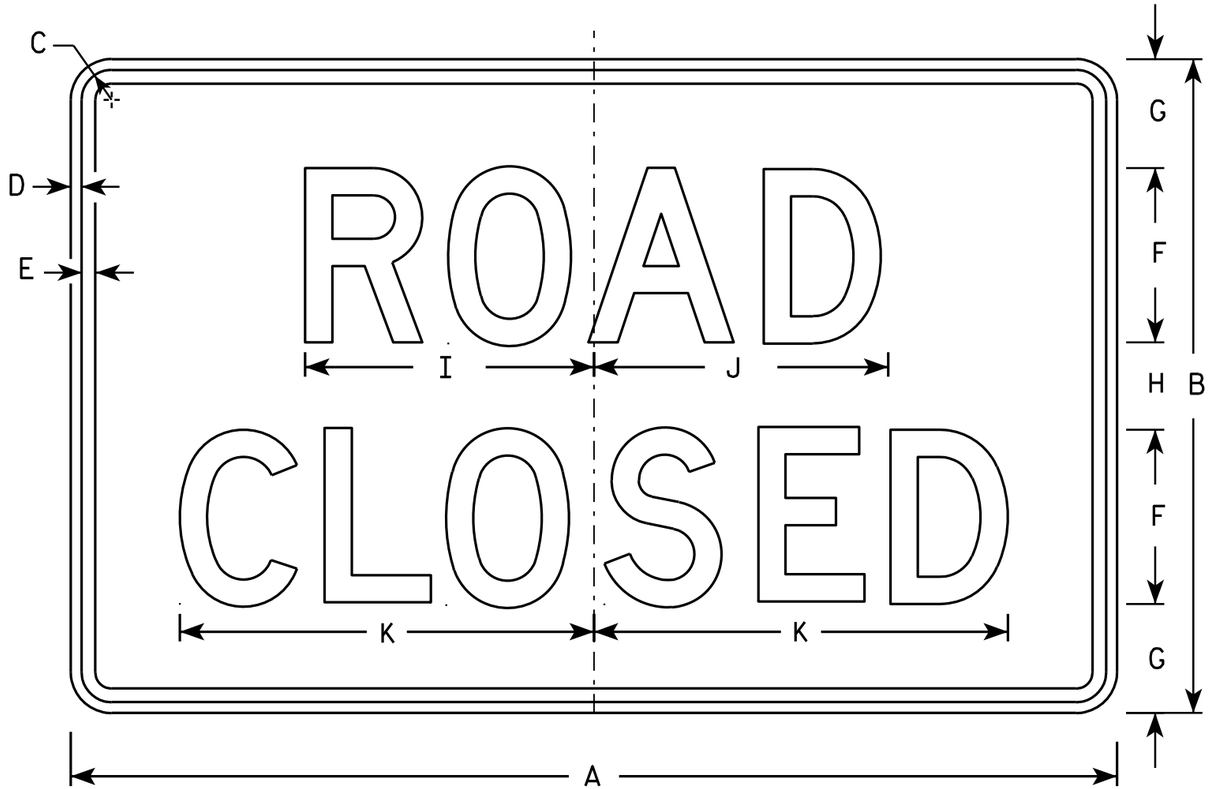
STANDARD SIGN
R8-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/31/2011 PLATE NO. R8-8.4

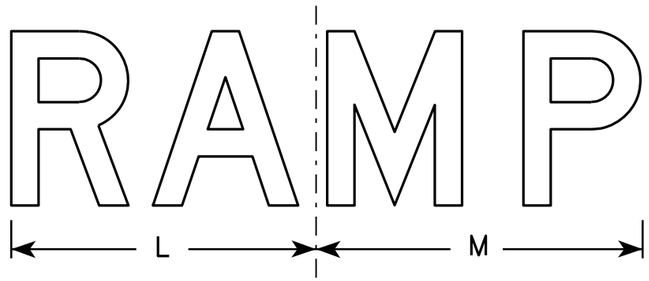
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 155	E



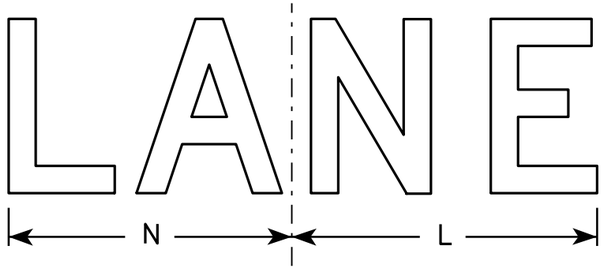
R11-2

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 - 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.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	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

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

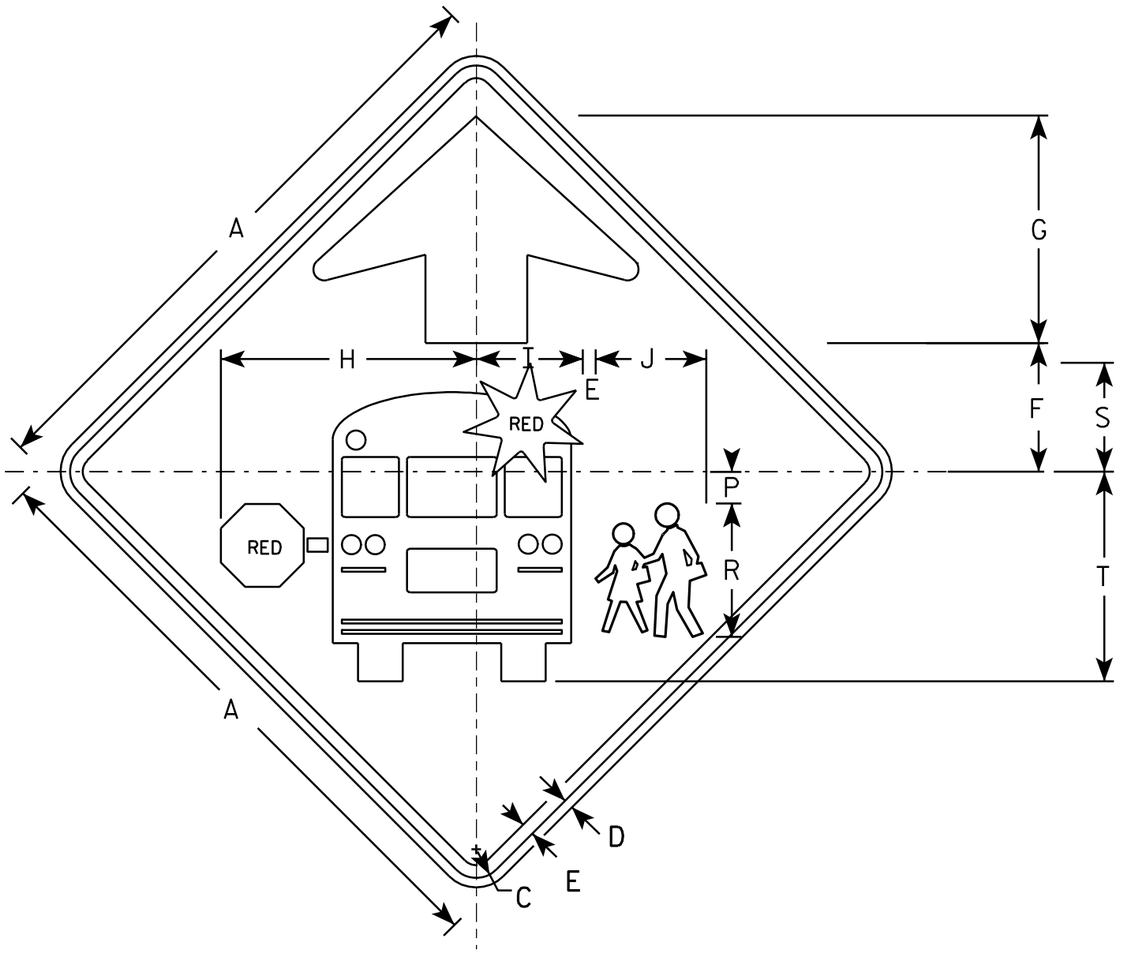
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 156	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.DGN PLOT DATE : 01-APR-2011 14:25 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.952219:1.000000

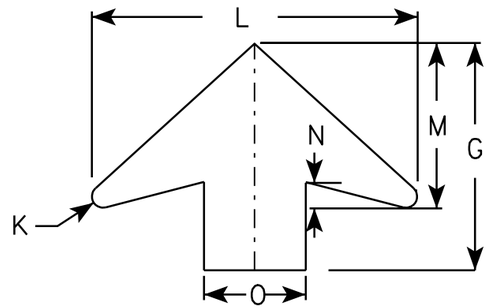
WISDOT/CADDS SHEET 42



S3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW-GREEN
   Message - BLACK except as noted
   Circles except PEDS- RED BACKGROUND
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN
S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

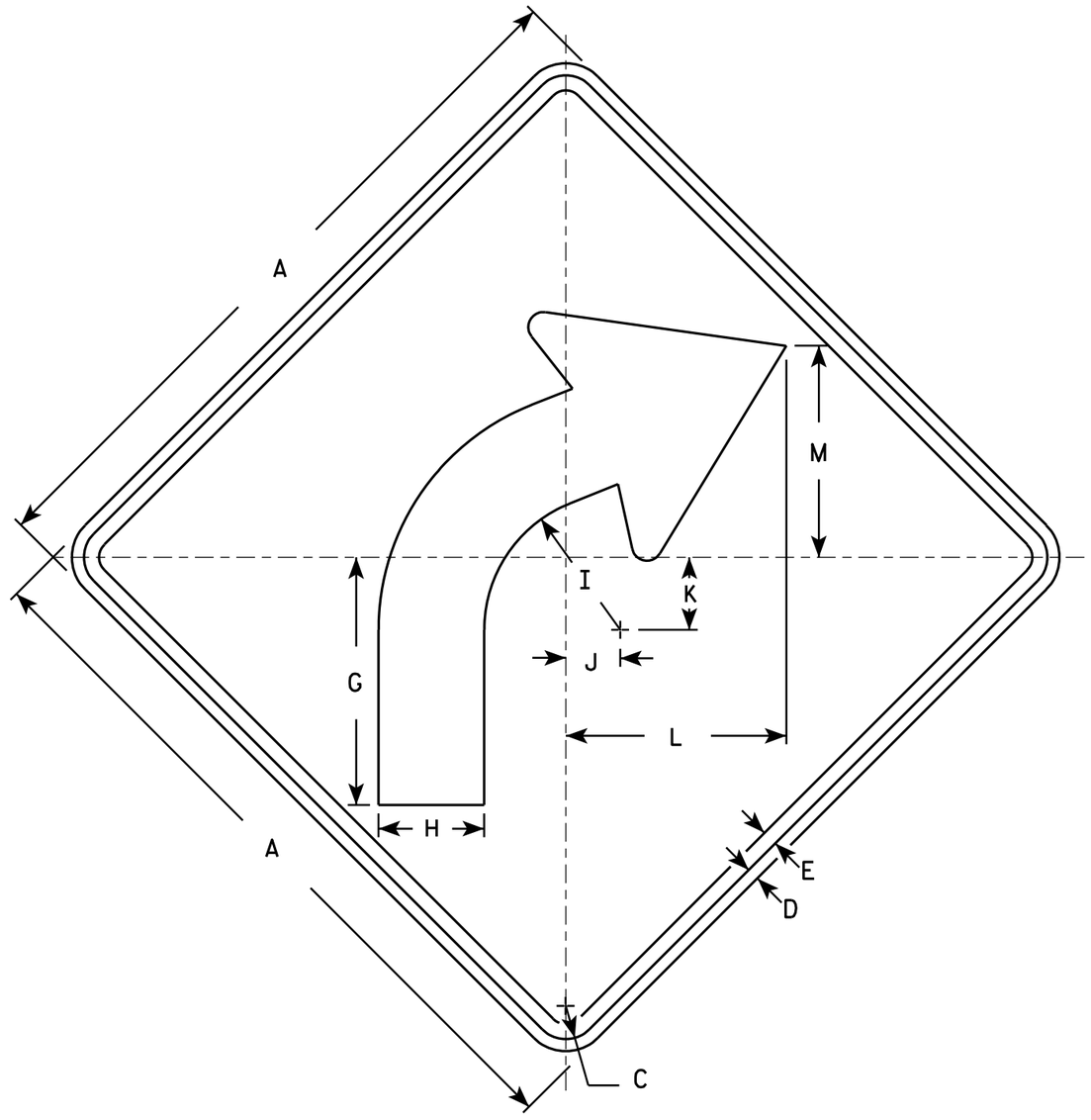
DATE 6/8/10 PLATE NO. S3-1.6

PROJECT NO:

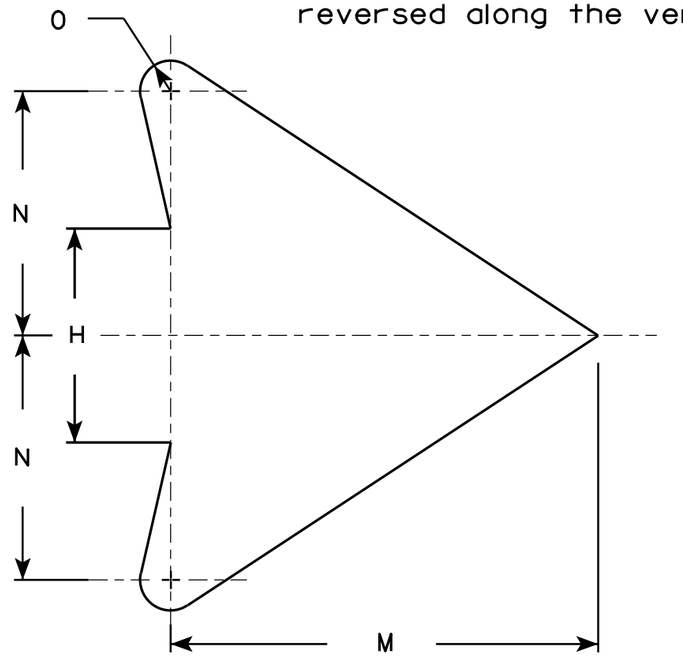
SHEET NO: 157 E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

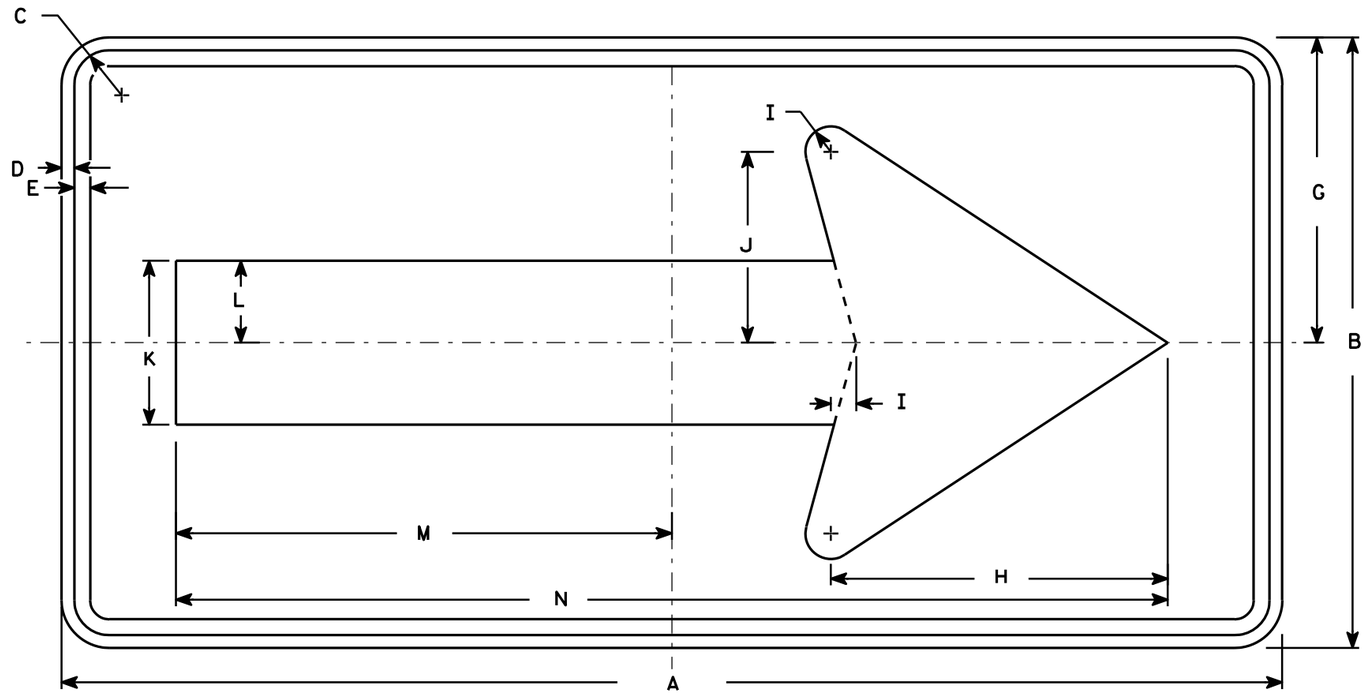
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 158	E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

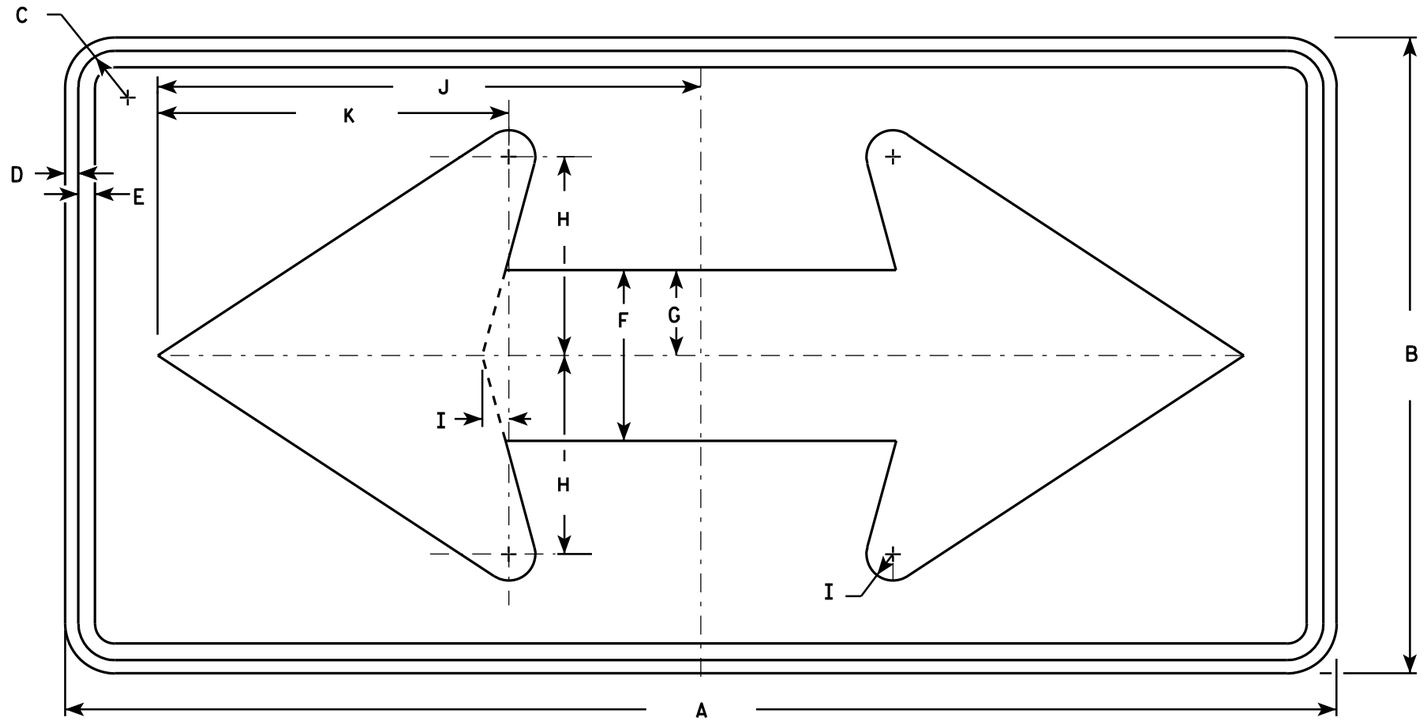
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 159



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	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 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	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

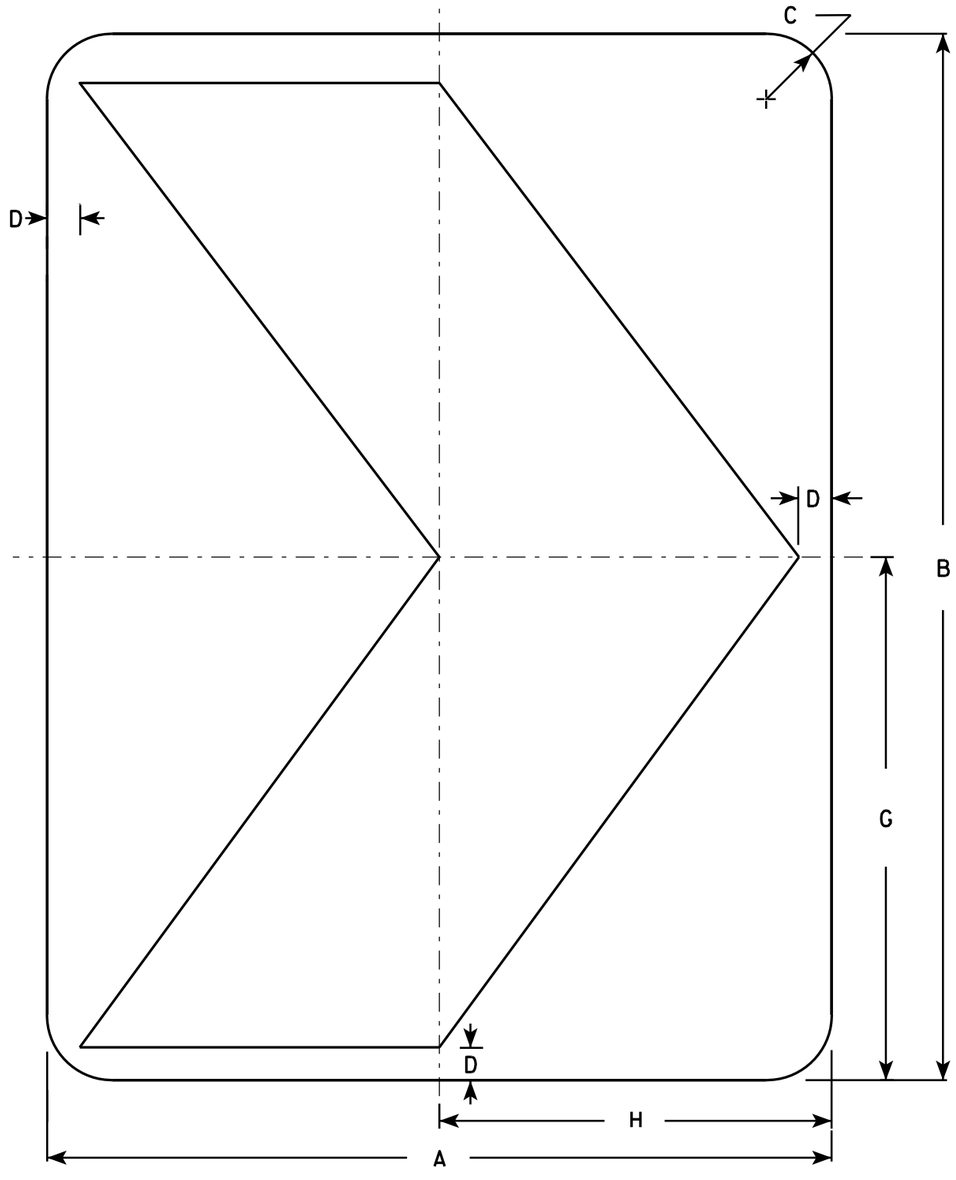
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 160 | E



NOTES

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.

W1-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 ½	½			9	6																			1.5
2S	18	24	1 ½	¾			12	9																			3.0
2M	18	24	1 ½	¾			12	9																			3.0
3	24	30	1 ½	1			15	12																			5.0
4	30	36	1 ⅞	1 ¼			18	15																			7.5
5	36	48	2 ¼	1 ½			24	18																			12.0

STANDARD SIGN
W1-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

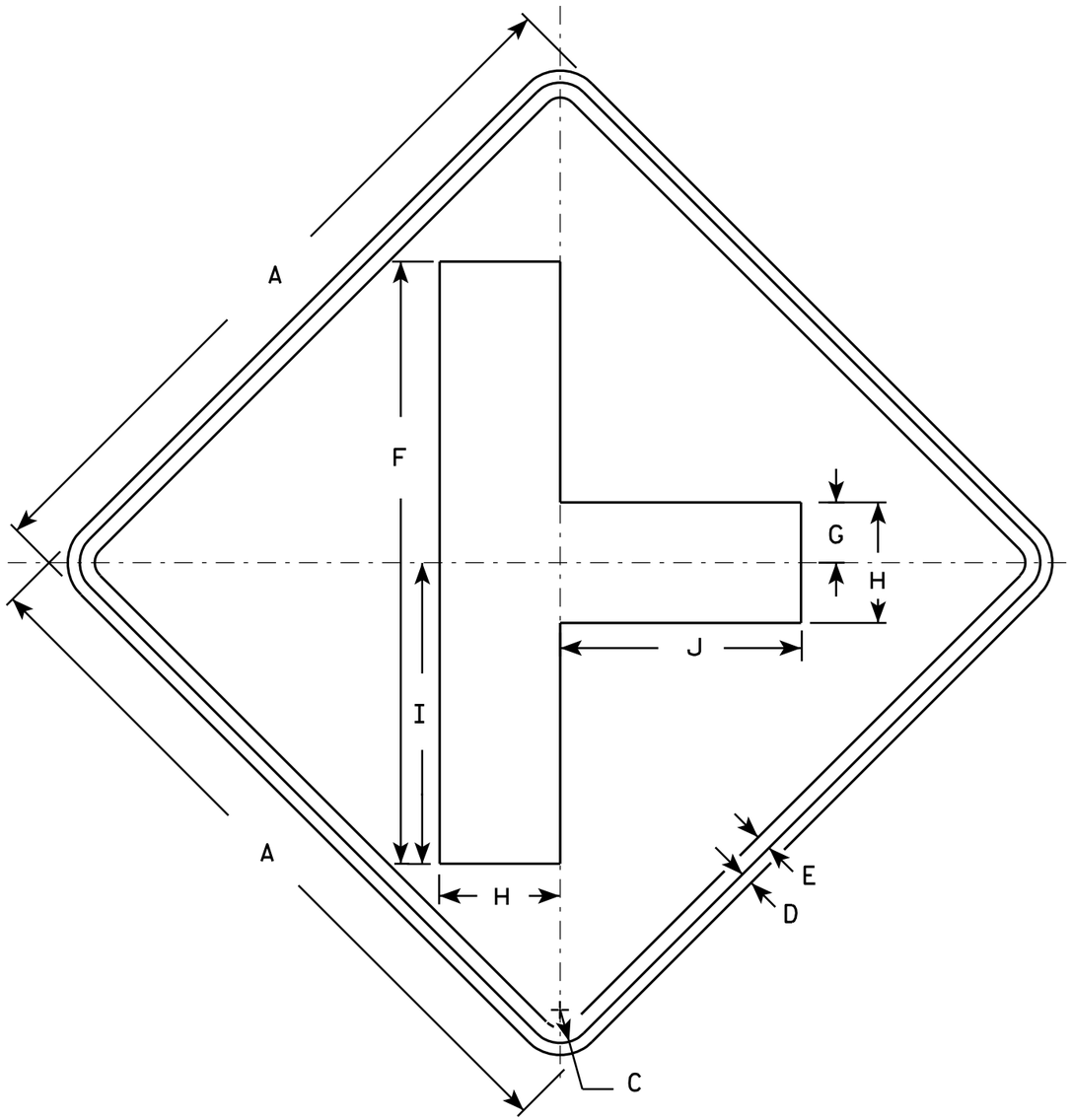
SHEET NO: 161 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W18.DGN PLOT DATE : 07-JUN-2010 12:55 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

7



W2-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	20	2	4	10	8																	4.0
2S	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																											

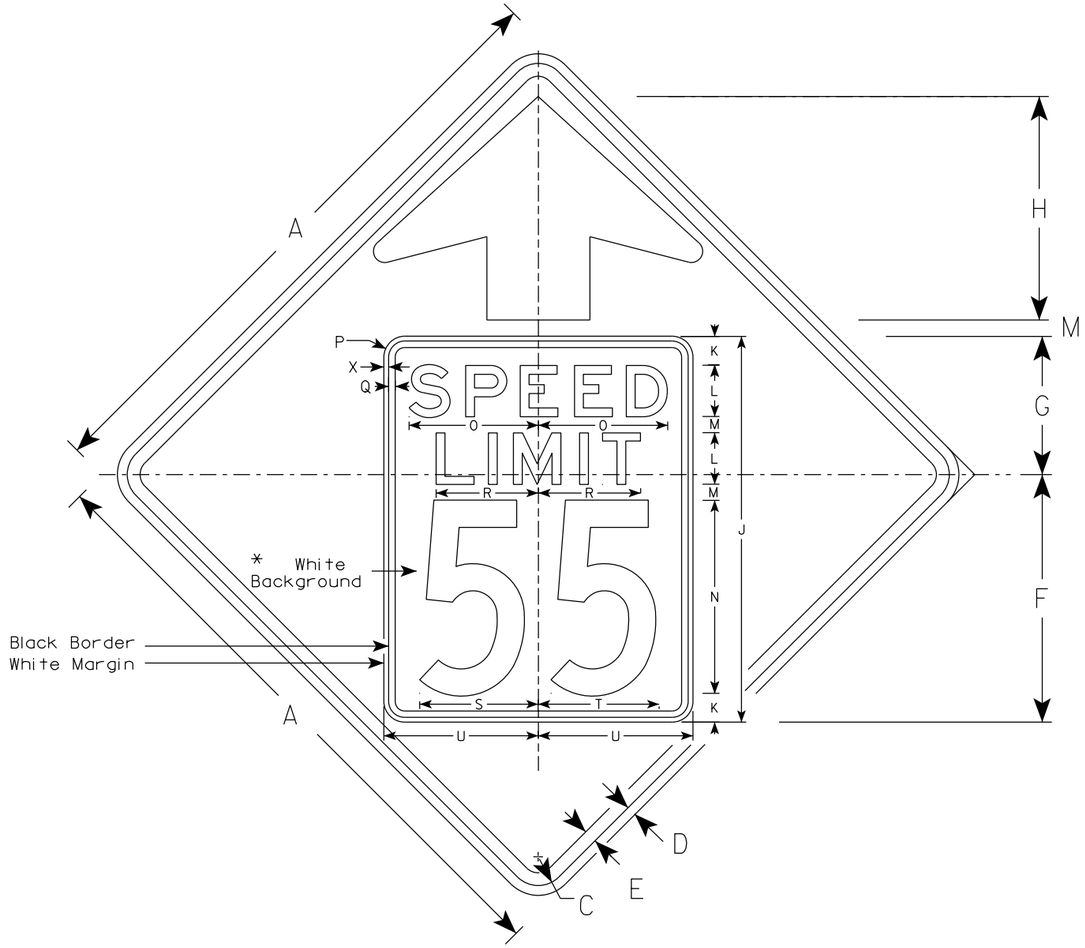
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-2.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 162 | E



W3-5

NOTES

1. Sign is Type II - See Note 2 for Sheeting Type
2. Color: *
   Background - Yellow* (Type F Reflective)
   Message - Black
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background with black message (Type SH Reflective)

ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

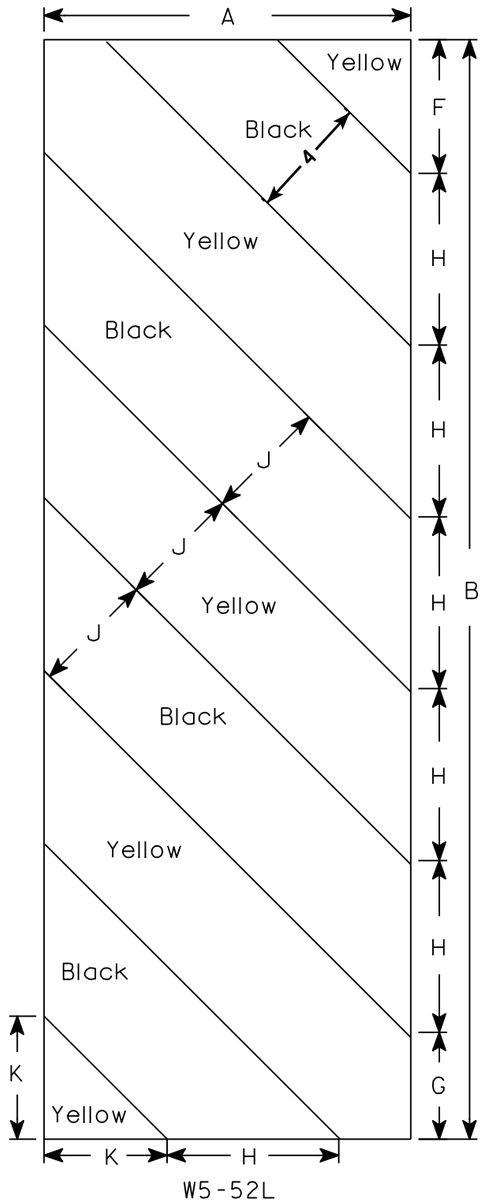
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew L Rauch
for State Traffic Engineer

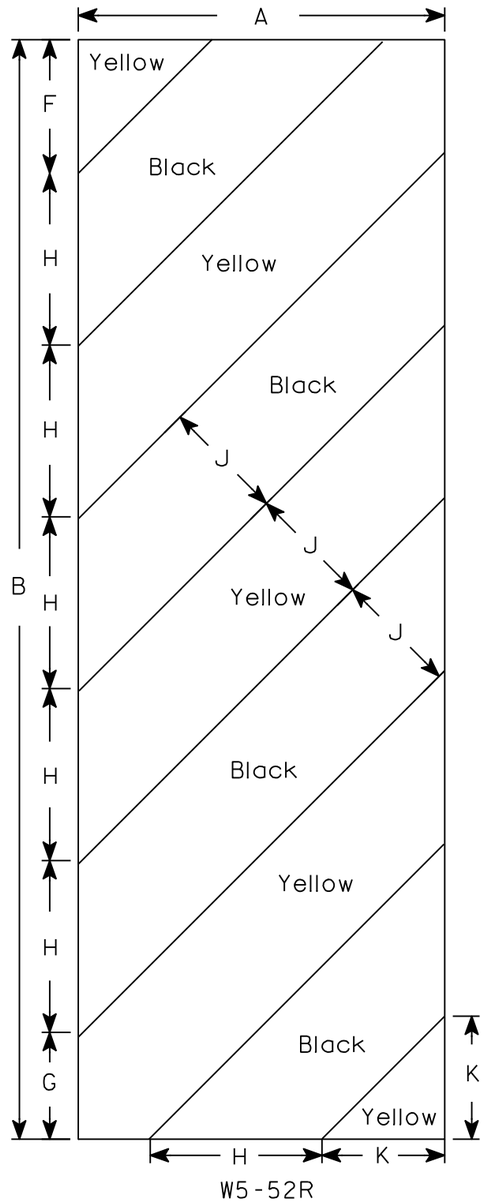
DATE 7/27/2020 PLATE NO. W3-5.6

PROJECT NO:

SHEET NO: 163 E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

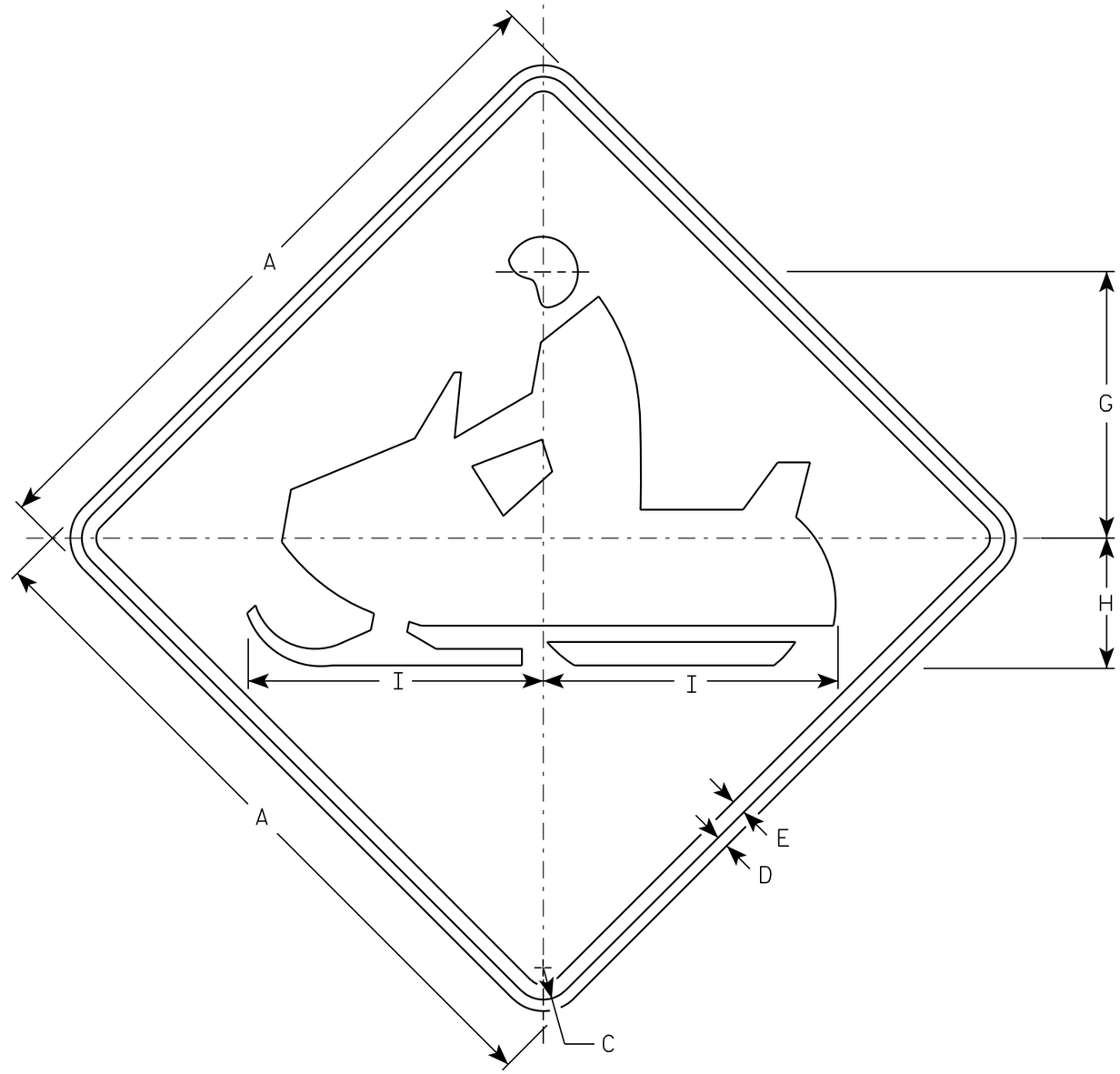
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 164 | E



W11-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

STANDARD SIGN
W11-6

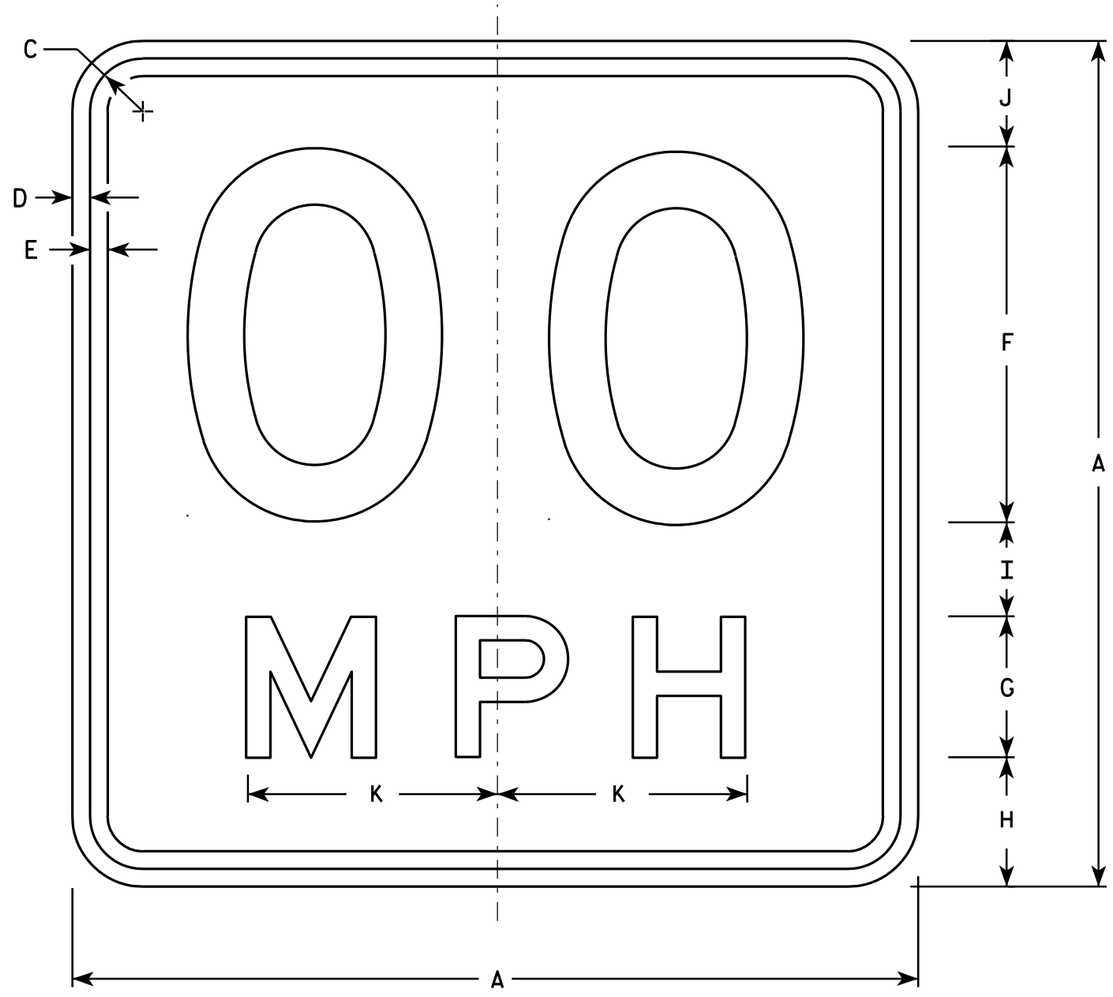
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-6.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 165 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W116.DGN PLOT DATE : 13-MAR-2013 12:57 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.954276:1.000000
WISDOT/CADDS SHEET 42



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

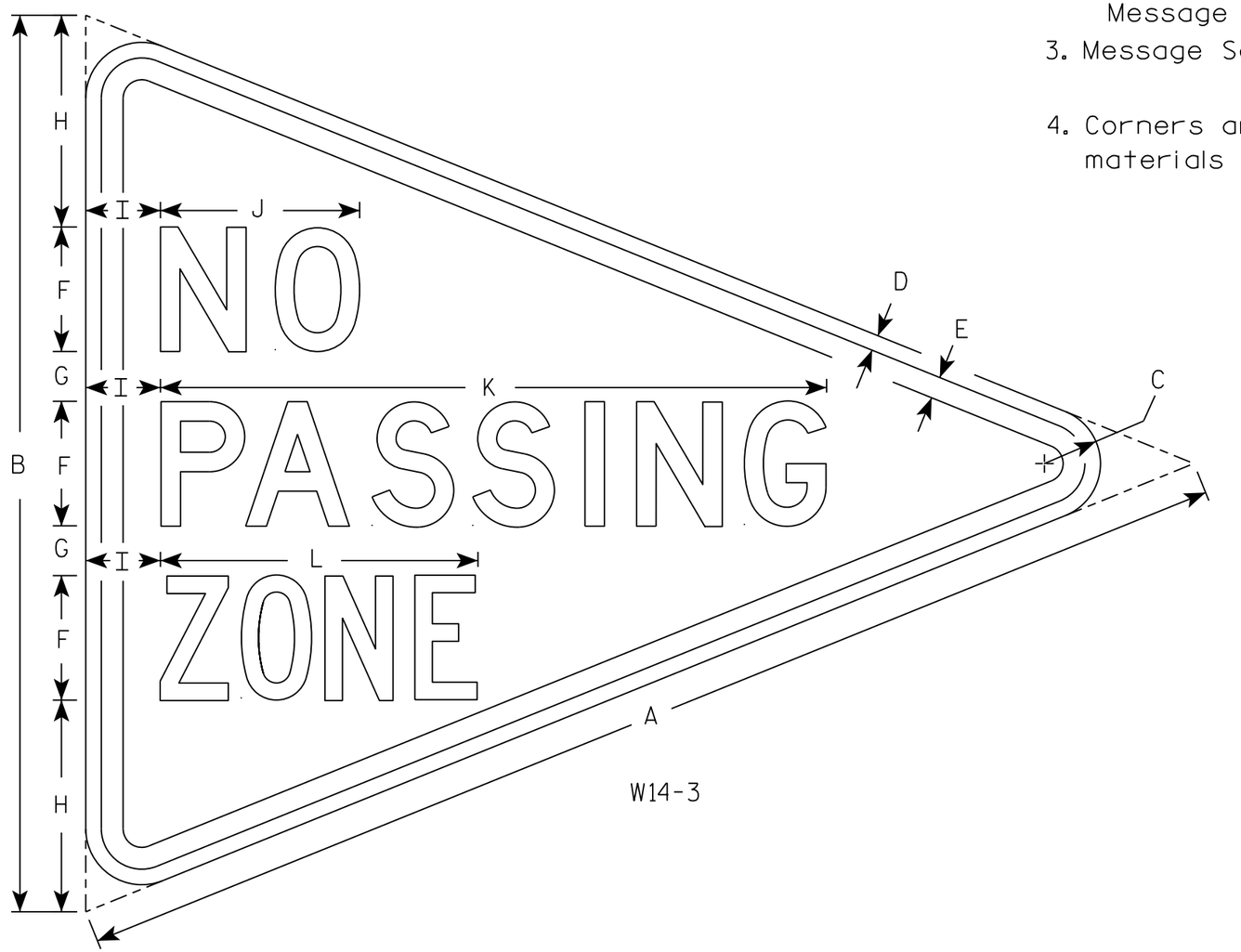
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 166 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

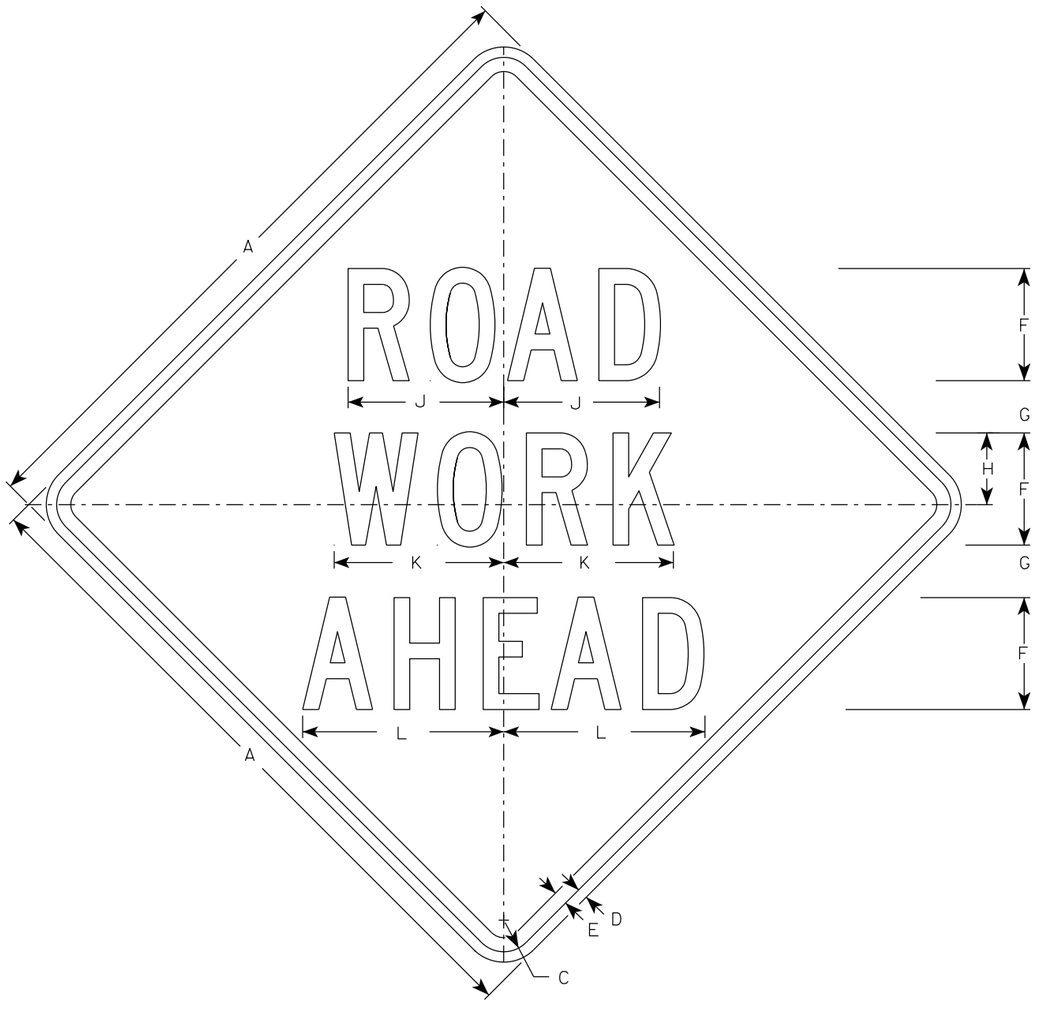
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

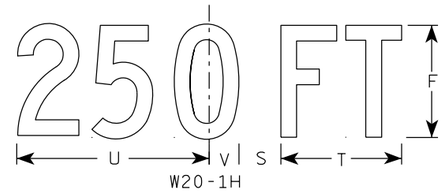
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

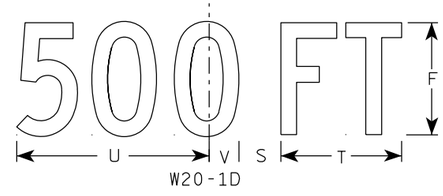
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 167	E



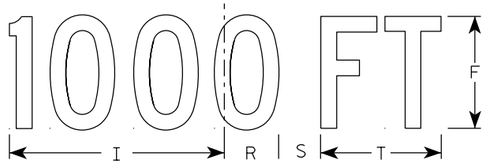
W20-1A



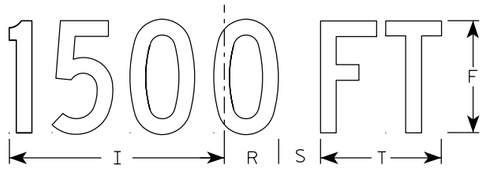
W20-1H



W20-1D



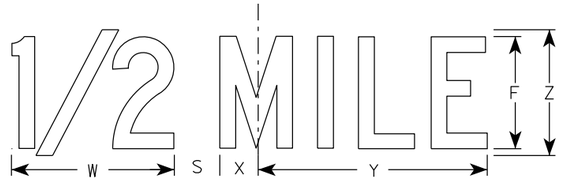
W20-1C



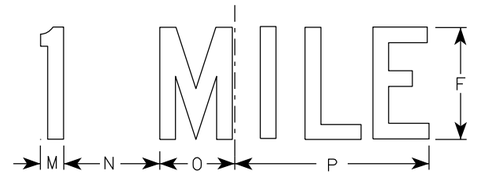
W20-1B

NOTES

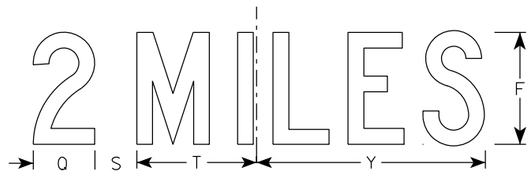
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

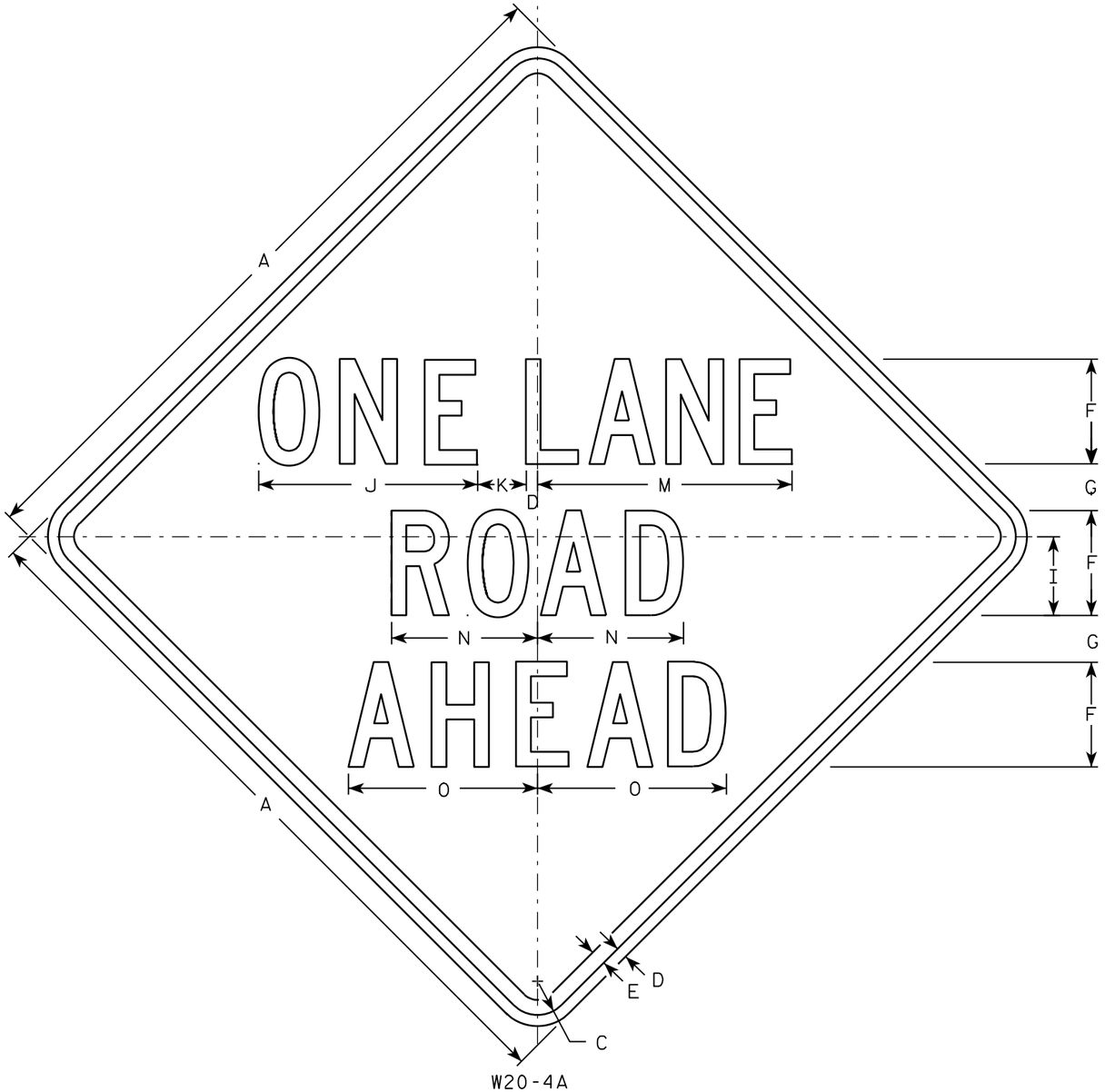
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

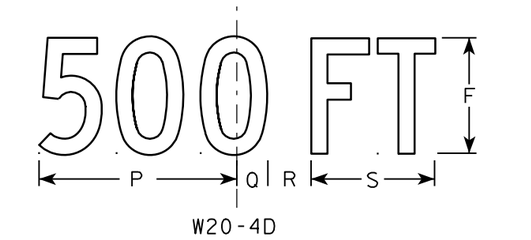
WISDOT/CADDS SHEET 42

7

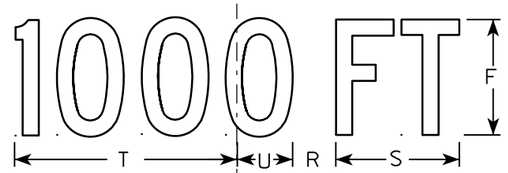
7



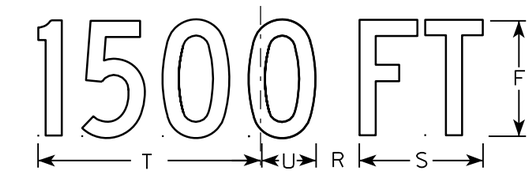
W20-4A



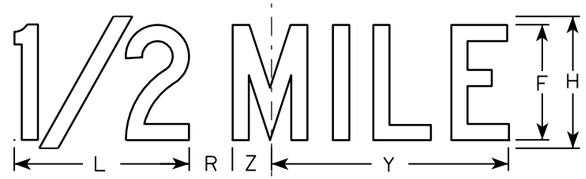
W20-4D



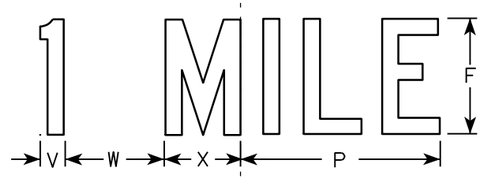
W20-4C



W20-4B



W20-4G



W20-4F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

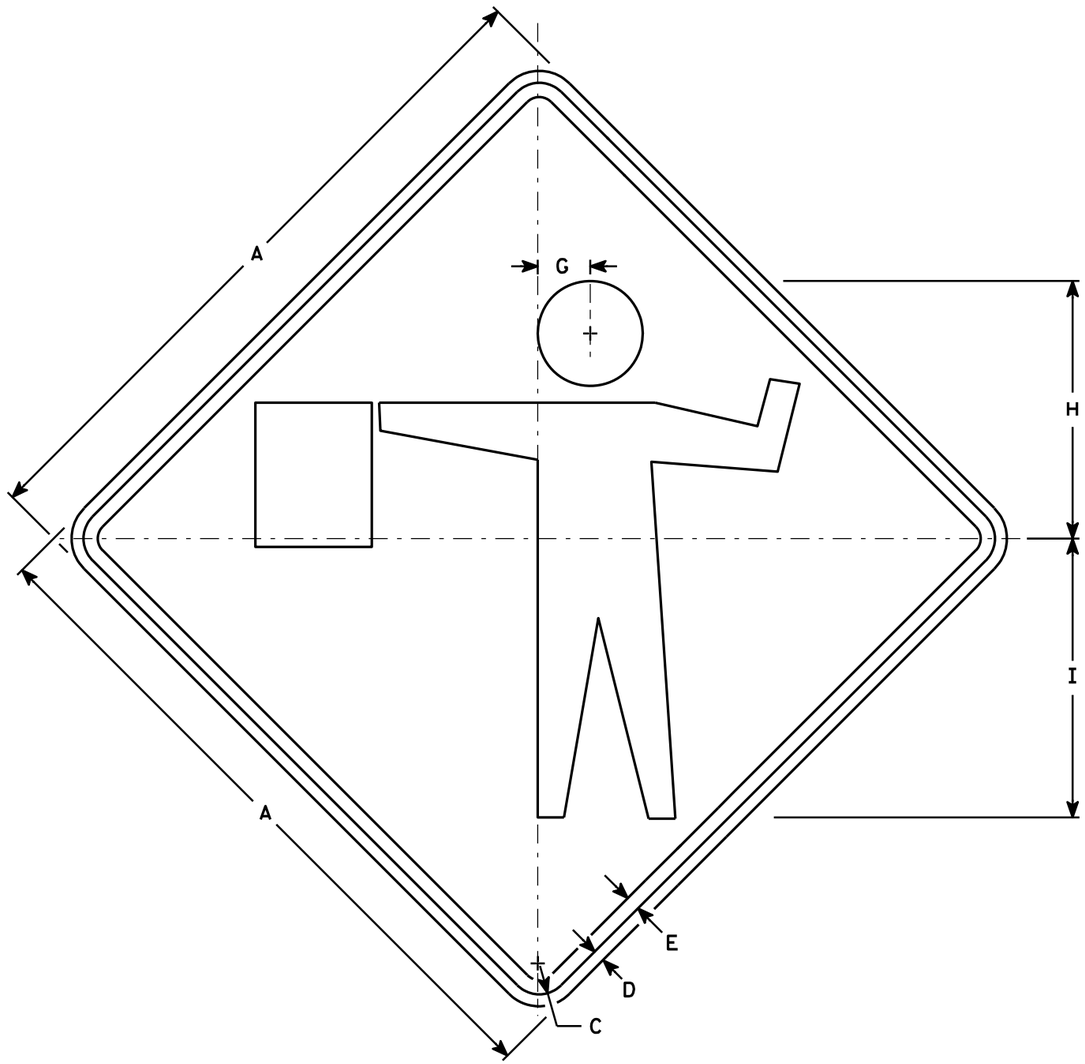
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-4.9

PROJECT NO:

SHEET NO: 169 E



W20-7A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.00
2S	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
2M	48		2 1/4	3/4	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	3/4	1		3 3/4	18	19 1/2																		16.00
5	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00

STANDARD SIGN
W20-7A

WISCONSIN DEPT OF TRANSPORTATION

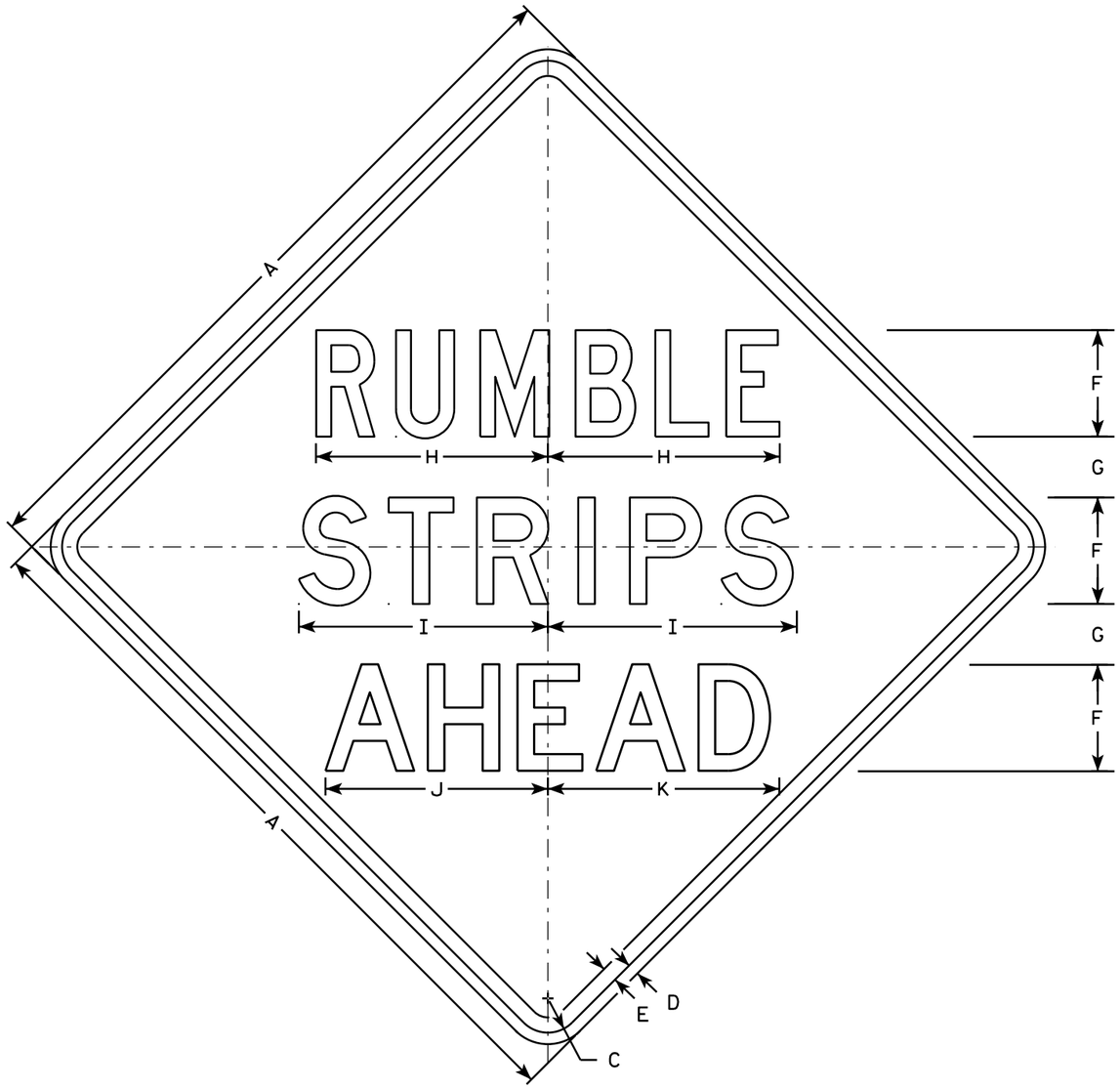
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-7A.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 170 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W207A.DGN PLOT DATE : 18-MAR-2011 13:14 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.945391:1.000000 WISDOT/CADDS SHEET 42



W21-65

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series C
   Lines 2 and 3 are Series D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 1/4	10 7/8	11 5/8	11	11 5/8																9.0
2S	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
2M	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
3	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
4	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0
5	48		2 1/4	3/4	1	7	4	15 1/4	16 3/8	14 5/8	15 1/4																16.0

STANDARD SIGN

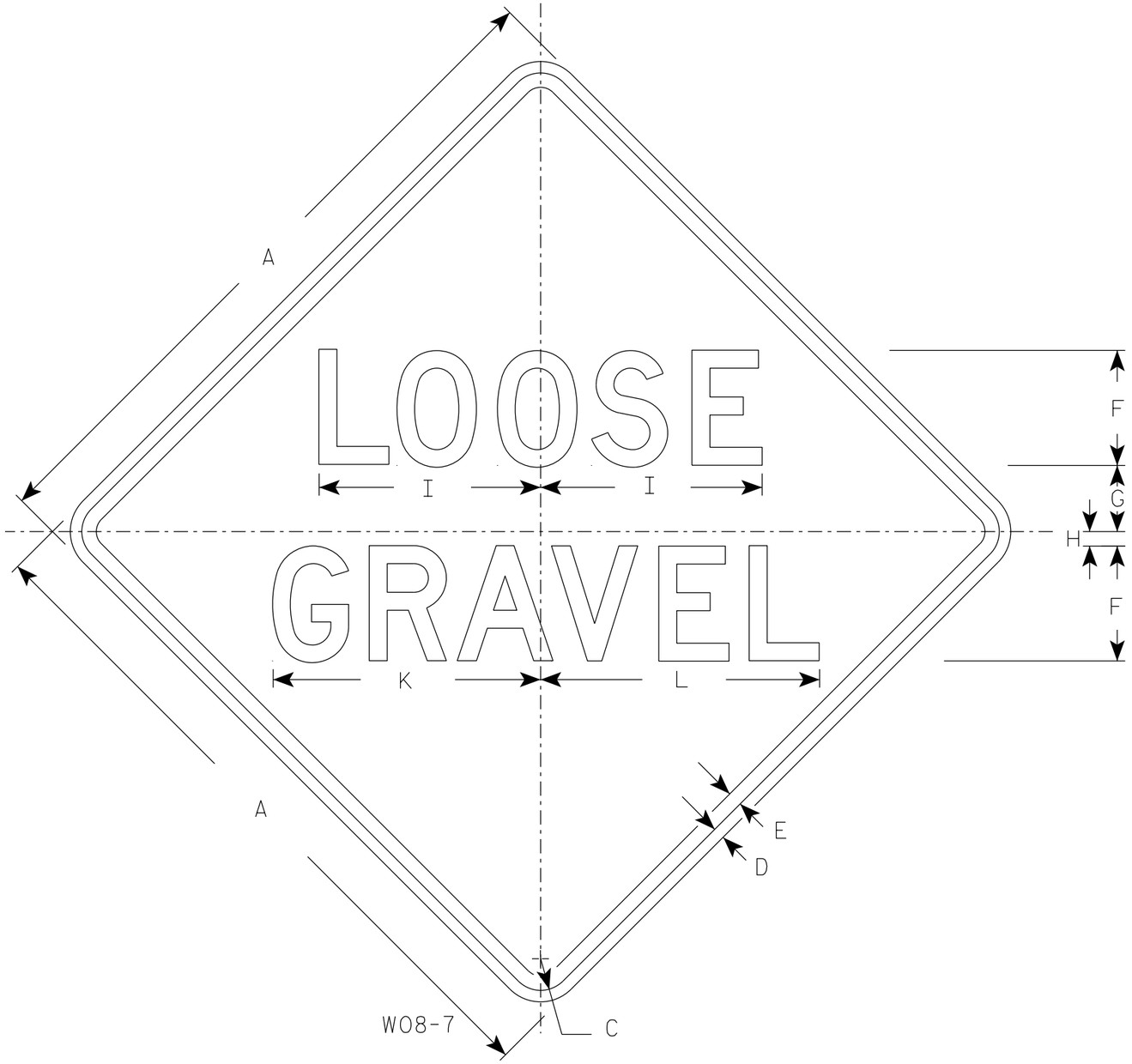
W21-65

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/28/14 PLATE W21-65.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



NOTES

1. Sign is Type II - Type F Reflective
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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	4 1/8	3/4	11 5/8		14	14 1/2															9.0
2S	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0
2M	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0
3	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0
4	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0
5	48		2 1/4	3/4	1	8	5 1/2	1	15 1/2		18 5/8	19 3/8															16.0

STANDARD SIGN
W08-7

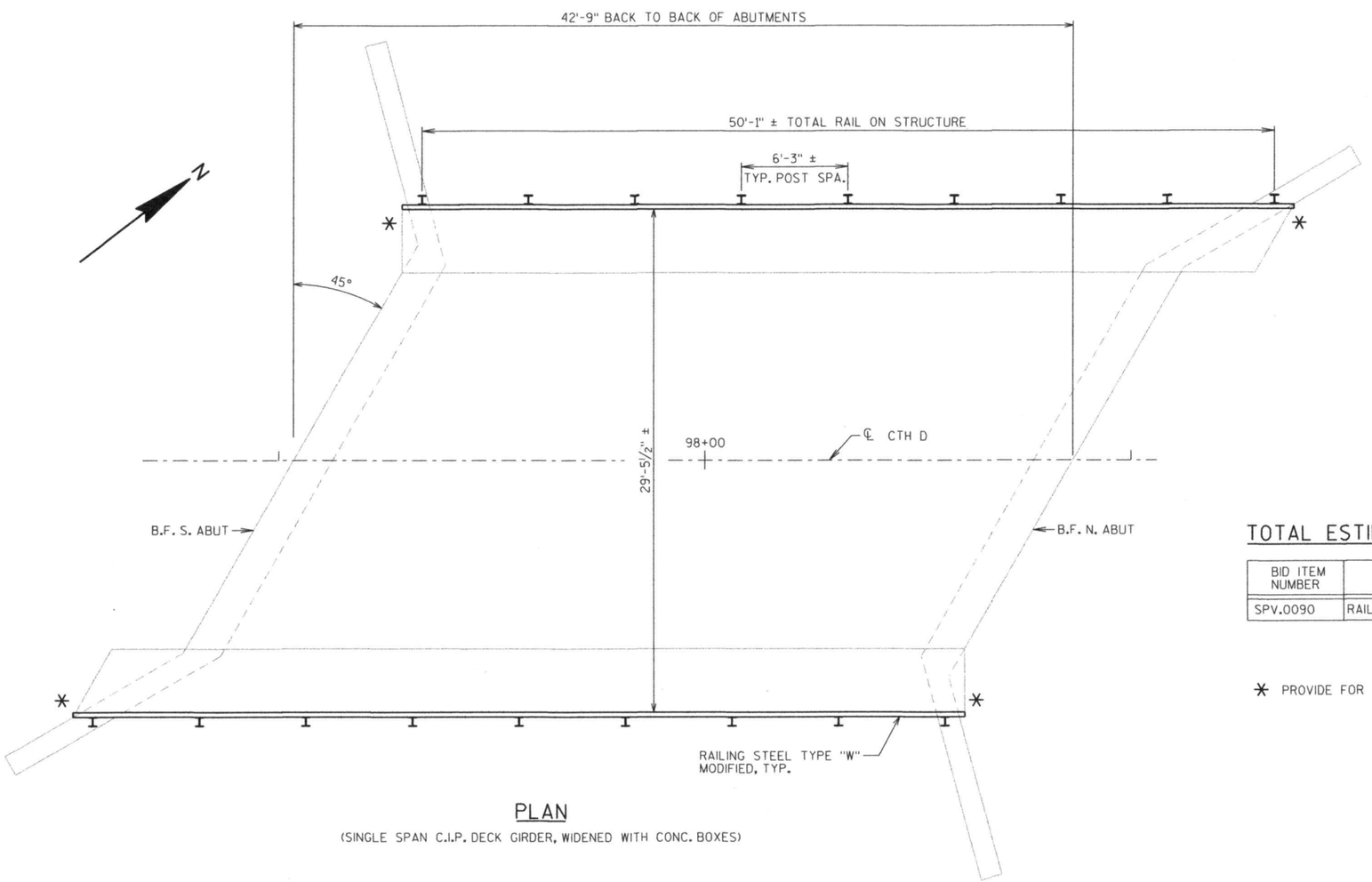
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/16/2020 PLATE NO. W08-7.8

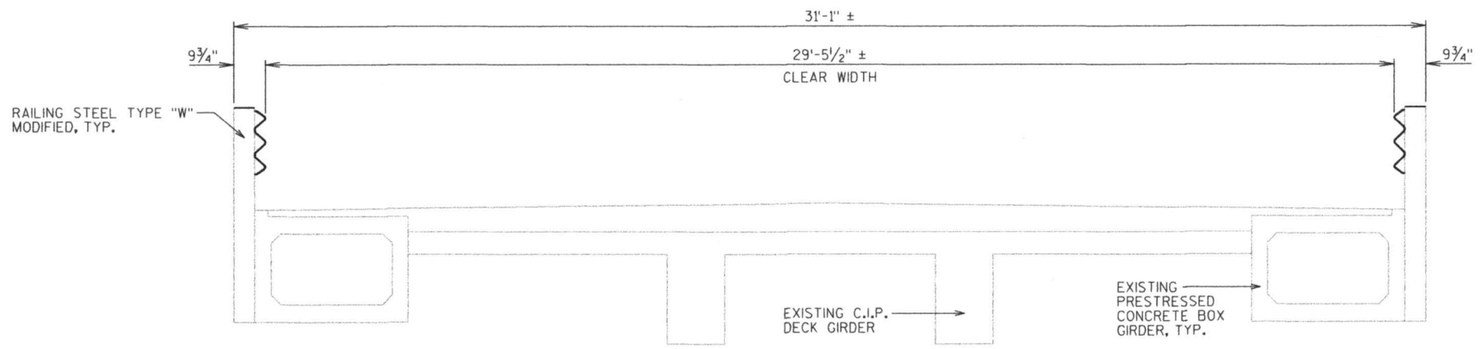
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

STATE PROJECT NUMBER
7823-07-72



PLAN

(SINGLE SPAN C.I.P. DECK GIRDER, WIDENED WITH CONC. BOXES)



CROSS SECTION THRU ROADWAY

(LOOKING NORTHEAST)

DESIGN DATA

LIVE LOAD: (FROM HSI)

INVENTORY RATING: HS-14
OPERATING RATING: HS-27

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
SPV.0090	RAILING STEEL TYPE "W" MODIFIED	LF	100

* PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT

WISCONSIN
TIMOTHY A. BOROWSKI
E-45180
VERONA
WI
PROFESSIONAL ENGINEER
8/26/20

LIST OF DRAWINGS

1. GENERAL PLAN & CROSS SECTION
2. RAILING TYPE "W" MODIFIED

STRUCTURE DESIGN CONTACTS:

AARON BONK	(608) 261-0261
TIM BOROWSKI	(262) 337-1242

NO.	DATE	REVISION	BY

cbs2
Engineers - Surveyors - Architects
770 Technology Way
Chippewa Falls, WI 54729
Phone: 715.861.5226
www.cbssquaredinc.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 11/06/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-18-945

CTH D OVER RUSH CREEK

COUNTY	TOWN/~~CITY/VILLAGE~~
EAU CLAIRE	LINCOLN

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	TAB	DESIGN CK'D.	WCD	DRAWN BY	TAB	PLANS CK'D.	WCD

GENERAL PLAN & CROSS SECTION

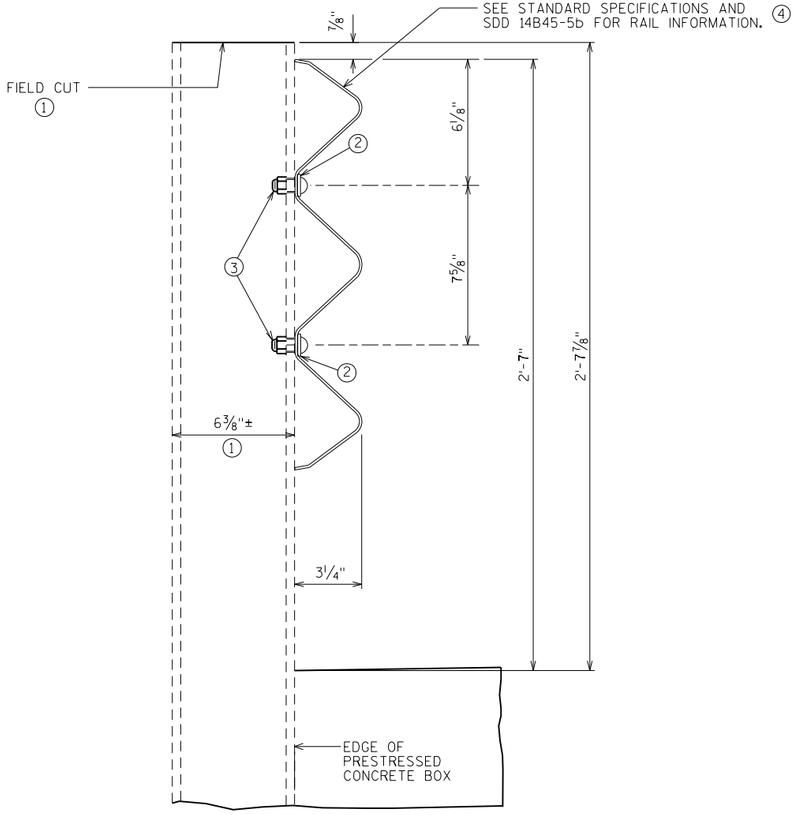
173

8

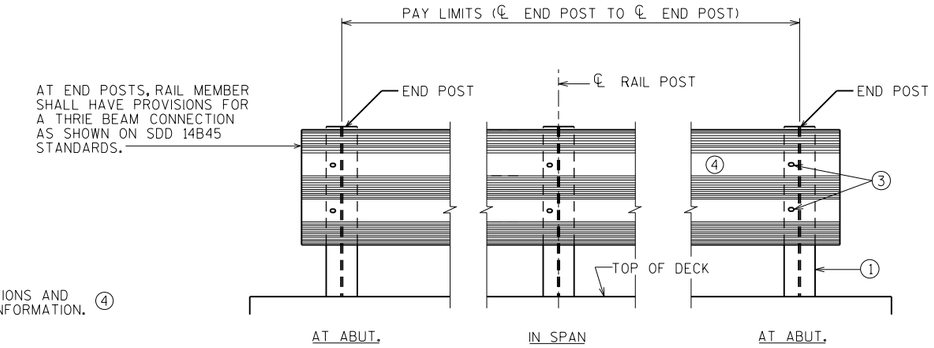
8

STATE PROJECT NUMBER

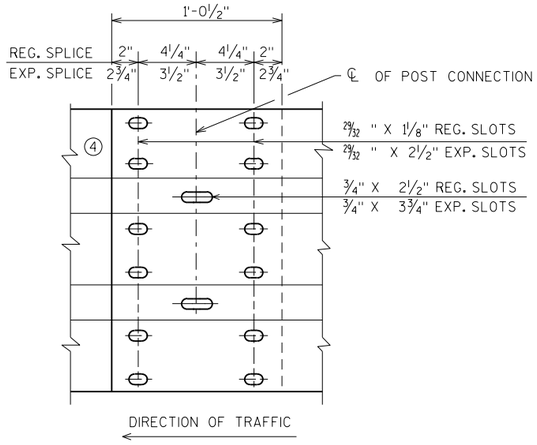
7823-07-72



SECTION THRU RAILING



ELEVATION



RAIL MEMBER SPLICE

5/8" DIA. BUTTON HEAD OVAL SHOULDER BOLTS WITH HEX NUTS AT ALL SLOTS.

LEGEND

① EXISTING W6×25. CUT OFF AT 2'-7 7/8" ABOVE ROADWAY AND DRILL 2 - 3/4" DIA. HOLES IN FLG. FOR NO. 3. PLACE NEW HOLES ON OPPOSITE SIDE OF WEB FROM EXISTING HOLES. CUT TOP, GRIND SMOOTH AND APPLY A ZINC RICH COATING THAT MEETS ASTM A780.

② 1 3/4" × 3" MOUNTING BOLT WASHER (GALVANIZED).

③ 5/8" DIA. BUTTON HEAD POST MOUNTING BOLT WITH ROUND WASHER AND NUT.

④ NEW THRIE BEAM. ATTACH TO NO. 1 WITH BOLTS NO. 3.

NOTES

DRAWINGS SHALL NOT BE SCALED.

BID ITEM SHALL BE "RAILING STEEL TYPE "W" MODIFIED" WHICH INCLUDES ALL ITEMS SHOWN, REMOVING THE EXISTING RAIL AND CUTTING EXISTING POSTS.

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION.

RAIL MEMBERS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC AND THE UPPER RAIL SHALL LAP THE LOWER RAIL.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-18-945

DRAWN BY TAB | PLANS CK'D. WCD

RAILING TYPE "W" MODIFIED

SHEET 174 2

SCALE = .333

DIVISION 1 - CTH D MAINLINE ALIGNMENT

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.20	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
34+25	3425.00	0.00	6.49	18.67	1.86	0	0	0	0	0	0
34+50	3450.00	25.00	10.85	18.67	0.42	8	17	1	8	1	7
35+00	3500.00	50.00	13.65	18.67	3.42	23	35	4	31	6	25
35+50	3550.00	50.00	15.73	18.67	3.73	27	35	7	58	14	44
36+00	3600.00	50.00	11.23	18.67	1.89	25	35	5	83	20	63
36+50	3650.00	50.00	8.57	18.67	4.23	18	35	6	101	28	73
37+00	3700.00	50.00	4.74	18.67	2.36	12	35	6	113	35	78

DIVISION 1 - CTH D MAINLINE ALIGNMENT

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.20	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
49+52.702	4952.70	0.00	4.73	18.67	0.64	0	0	0	0	0	0
50+00	5000.00	47.30	8.35	18.67	4.63	11	33	5	11	6	5
50+50	5050.00	50.00	6.03	18.67	11.68	13	35	15	24	24	0
51+00	5100.00	50.00	0.62	18.67	25.68	6	35	35	30	66	-36
51+50	5150.00	50.00	6.12	18.67	16.75	6	35	39	36	113	-77
52+00	5200.00	50.00	7.10	17.33	17.57	12	33	32	48	151	-103
52+50	5250.00	50.00	6.78	17.33	35.18	13	32	49	61	210	-149
53+00	5300.00	50.00	57.99	17.33	24.89	60	32	56	121	277	-156
53+50	5350.00	50.00	63.69	17.33	24.11	113	32	45	234	331	-97
54+00	5400.00	50.00	0.00	17.33	0.00	59	32	22	293	358	-65
54+50	5450.00	50.00	55.41	17.33	30.06	51	32	28	344	391	-47
54+81.946	5481.95	31.95	48.73	17.33	54.08	62	21	50	406	451	-45
54+85	5485.00	3.05	47.52	17.33	65.53	5	2	7	411	460	-49
54+90	5490.00	5.00	44.84	17.33	86.12	9	3	14	420	476	-56
54+95	5495.00	5.00	41.45	17.33	86.78	8	3	16	428	496	-68
55+00	5500.00	5.00	38.31	17.33	44.62	7	3	12	435	510	-75
55+05	5505.00	5.00	35.78	17.33	0.06	7	3	4	442	515	-73
55+10	5510.00	5.00	34.32	17.33	0.07	6	3	0	448	515	-67
55+15	5515.00	5.00	32.12	17.33	0.07	6	3	0	454	515	-61
55+20	5520.00	5.00	28.65	17.33	0.09	6	3	0	460	515	-55
55+25	5525.00	5.00	24.61	17.33	0.08	5	3	0	465	515	-50
55+30	5530.00	5.00	19.06	17.33	0.08	4	3	0	469	515	-46
55+35	5535.00	5.00	21.47	17.33	0.09	4	3	0	473	515	-42
55+40	5540.00	5.00	22.77	17.33	0.10	4	3	0	477	515	-38
55+45	5545.00	5.00	25.85	17.33	0.11	5	3	0	482	515	-33
55+50	5550.00	5.00	27.97	17.33	0.14	5	3	0	487	515	-28
55+55	5555.00	5.00	25.88	17.33	24.65	5	3	2	492	517	-25
55+60	5560.00	5.00	24.33	17.33	43.80	5	3	6	497	524	-27
55+65	5565.00	5.00	23.22	17.33	36.73	4	3	7	501	533	-32
55+70	5570.00	5.00	23.12	17.33	25.68	4	3	6	505	540	-35
55+71.65	5571.65	1.65	23.15	17.33	33.69	1	1	2	506	542	-36
56+00	5600.00	28.35	22.41	17.33	105.98	24	18	73	530	630	-100
56+50	5650.00	50.00	23.38	17.33	64.42	42	32	158	572	820	-248
57+00	5700.00	50.00	27.55	17.33	23.30	47	32	81	619	917	-298
57+50	5750.00	50.00	29.47	17.33	4.36	53	32	26	672	948	-276
58+00	5800.00	50.00	20.05	17.33	0.87	46	32	5	718	954	-236
58+50	5850.00	50.00	14.38	17.33	1.86	32	32	3	750	958	-208
59+00	5900.00	50.00	2.26	18.67	13.47	15	33	14	765	974	-209
59+50	5950.00	50.00	0.27	18.67	15.73	2	35	27	767	1,007	-240
60+00	6000.00	50.00	1.78	18.67	6.53	2	35	21	769	1,032	-263
60+50	6050.00	50.00	3.89	18.67	0.13	5	35	6	774	1,039	-265
61+00	6100.00	50.00	7.00	18.67	0.00	10	35	0	784	1,039	-255

DIVISION 1 - CTH D MAINLINE ALIGNMENT

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.20	NOTE 4
83+00	8300.00	0.00	0.00	18.67	0.06	0	0	0	0	0	0
83+50	8350.00	50.00	0.00	18.67	0.06	0	35	0	0	0	0
84+00	8400.00	50.00	0.00	18.67	0.21	0	35	0	0	0	0
84+50	8450.00	50.00	0.00	18.67	0.23	0	35	0	0	0	0
85+00	8500.00	50.00	0.00	18.67	0.06	0	35	0	0	0	0
85+50	8550.00	50.00	2.24	18.67	0.00	2	35	0	2	0	2
86+00	8600.00	50.00	13.55	18.67	4.43	15	35	4	17	5	12
86+50	8650.00	50.00	37.19	18.67	1.81	47	35	6	64	12	52
87+00	8700.00	50.00	40.72	18.67	2.01	72	35	4	136	17	119
87+50	8750.00	50.00	45.96	18.67	0.89	80	35	3	216	20	196
88+00	8800.00	50.00	31.08	18.67	0.00	71	35	1	287	22	265
88+50	8850.00	50.00	14.09	18.67	1.75	42	35	2	329	24	305
89+00	8900.00	50.00	4.16	18.67	0.00	17	35	2	346	26	320
89+50	8950.00	50.00	0.60	18.67	0.11	4	35	0	350	26	324
90+00	9000.00	50.00	0.00	18.67	0.07	1	35	0	351	26	325
90+50	9050.00	50.00	0.00	18.67	0.54	0	35	1	351	28	323
91+00	9100.00	50.00	0.00	18.67	3.53	0	35	4	351	32	319
91+50	9150.00	50.00	0.00	18.67	2.56	0	35	6	351	40	311
92+00	9200.00	50.00	0.00	18.67	0.88	0	35	3	351	43	308
92+50	9250.00	50.00	0.00	18.67	0.01	0	35	1	351	44	307
93+00	9300.00	50.00	0.00	18.67	0.03	0	35	0	351	44	307

DIVISION 1 - CTH D MAINLINE ALIGNMENT

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.20	NOTE 4
106+00	10600.00	0.00	3.13	0.00	0.62	0	0	0	0	0	0
106+50	10650.00	50.00	10.03	0.00	3.50	12	0	4	12	5	10
107+00	10700.00	50.00	8.56	0.00	11.82	17	0	14	29	22	13
107+25	10725.00	25.00	8.60	0.00	8.72	8	0	10	37	34	11
107+50	10750.00	25.00	3.89	0.00	3.03	6	0	5	43	40	12
108+00	10800.00	50.00	2.67	0.00	0.39	6	0	3	49	43	16

DIVISION 1 - CTH D MAINLINE ALIGNMENT

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
115+00	11500.00	0.00	3.54	0.00	0.02	0	0	0	0	0	0
115+31.25	11531.25	31.25	3.94	0.00	0.16	4	0	0	4	0	4
115+56.23	11556.23	24.98	3.86	0.00	15.61	4	0	7	8	8	0
115+81.21	11581.21	24.98	3.72	0.00	32.58	4	0	22	12	35	-23
116+00	11600.00	18.79	3.33	0.00	30.37	2	0	22	14	61	-47
116+50	11650.00	50.00	4.14	0.00	0.00	7	0	28	21	95	-74
117+00	11700.00	50.00	10.09	0.00	0.00	13	0	0	34	95	-61

DIVISION 1 - CTH D MAINLINE ALIGNMENT

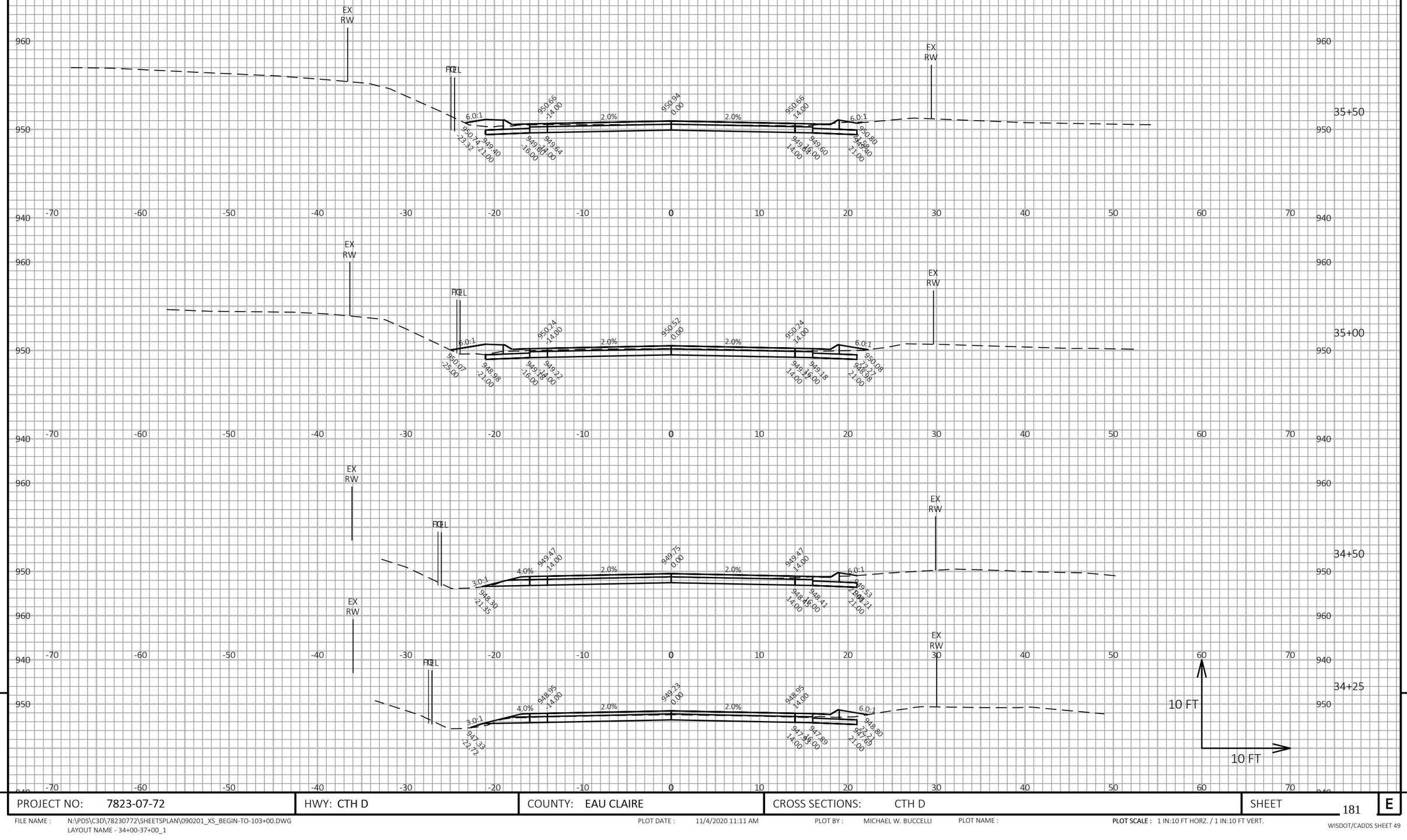
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.20	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
130+25	13025.00	0.00	4.46	18.67	0.00	0	0	0	0	0	0
130+50	13050.00	25.00	45.89	18.67	0.59	23	17	0	23	0	23
130+75	13075.00	25.00	45.79	18.67	0.33	42	17	0	65	0	65
131+00	13100.00	25.00	42.06	18.67	0.00	41	17	0	106	0	106
131+25	13125.00	25.00	46.20	18.67	0.36	41	17	0	147	0	147
131+50	13150.00	25.00	64.11	18.67	8.45	51	17	4	198	5	193
131+75	13175.00	25.00	81.40	18.67	1.26	67	17	4	265	10	255
132+00	13200.00	25.00	13.97	18.67	22.42	44	17	11	309	23	286

DIVISION 1 - CTH D MAINLINE ALIGNMENT

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.20	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
148+50	14850.00	0.00	1.60	0.00	2.84	0	0	0	0	0	0
149+00	14900.00	50.00	4.16	0.00	3.22	5	0	6	5	7	-2
149+50	14950.00	50.00	3.91	0.00	2.82	7	0	6	12	14	-2
149+93.74	14993.74	43.74	1.77	0.00	4.09	5	0	6	17	22	-5
150+18.72	15018.72	24.98	1.50	0.00	8.57	2	0	6	19	29	-10
150+43.7	15043.70	24.98	1.29	0.00	10.49	1	0	9	20	40	-20
151+00	15100.00	56.30	1.25	0.00	34.30	3	0	47	23	96	-73
151+50	15150.00	50.00	1.36	0.00	61.41	2	0	89	25	203	-178
152+00	15200.00	50.00	1.73	0.00	36.29	3	0	90	28	311	-283
152+50	15250.00	50.00	2.30	0.00	7.36	4	0	40	32	359	-327
152+75	15275.00	25.00	2.69	0.00	5.69	2	0	6	34	366	-332
153+00	15300.00	25.00	10.80	0.00	1.55	6	0	3	40	370	-330
153+50	15350.00	50.00	2.91	0.00	16.79	13	0	17	53	390	-337
154+00	15400.00	50.00	2.86	0.00	2.87	5	0	18	58	412	-354
154+50	15450.00	50.00	4.18	0.00	0.56	7	0	3	65	415	-350

DIVISION 1 - GREEN MEADOW RD

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	PULVERIZED PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.20	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
02+25	225.00	0.00	13.90	0.00	0.00	0	0	0	0	0	0
02+40.876	240.88	15.88	6.51	0.00	2.22	6	0	1	6	1	6
02+72.228	272.23	31.35	9.13	0.00	0.00	9	0	1	15	2	16
02+75	275.00	2.77	8.27	0.00	41.18	1	0	2	16	5	14
02+80	280.00	5.00	5.66	0.00	61.04	1	0	9	17	16	5
02+85	285.00	5.00	14.83	0.00	58.71	2	0	11	19	29	-6
02+90	290.00	5.00	15.40	0.00	48.17	3	0	10	22	41	-14
02+95	295.00	5.00	18.28	0.00	42.53	3	0	8	25	50	-20
03+00	300.00	5.00	20.87	0.00	40.63	4	0	8	29	60	-25
03+05	305.00	5.00	23.12	0.00	34.70	4	0	7	33	68	-29
03+10	310.00	5.00	21.39	0.00	25.55	4	0	6	37	76	-31
03+15	315.00	5.00	20.93	0.00	11.60	4	0	3	41	79	-30
03+20	320.00	5.00	20.22	0.00	3.21	4	0	1	45	80	-26
03+25	325.00	5.00	15.81	0.00	0.00	3	0	0	48	80	-23
03+30	330.00	5.00	6.04	0.00	0.00	2	0	0	50	80	-20
03+35	335.00	5.00	3.84	0.00	0.00	1	0	0	51	80	-19
03+40	340.00	5.00	3.67	0.00	0.00	1	0	0	52	80	-18
03+45	345.00	5.00	3.28	0.00	0.00	1	0	0	53	80	-17
03+50	350.00	5.00	3.78	0.00	0.00	1	0	0	54	80	-16
03+55	355.00	5.00	59.40	0.00	0.00	6	0	0	60	80	-8

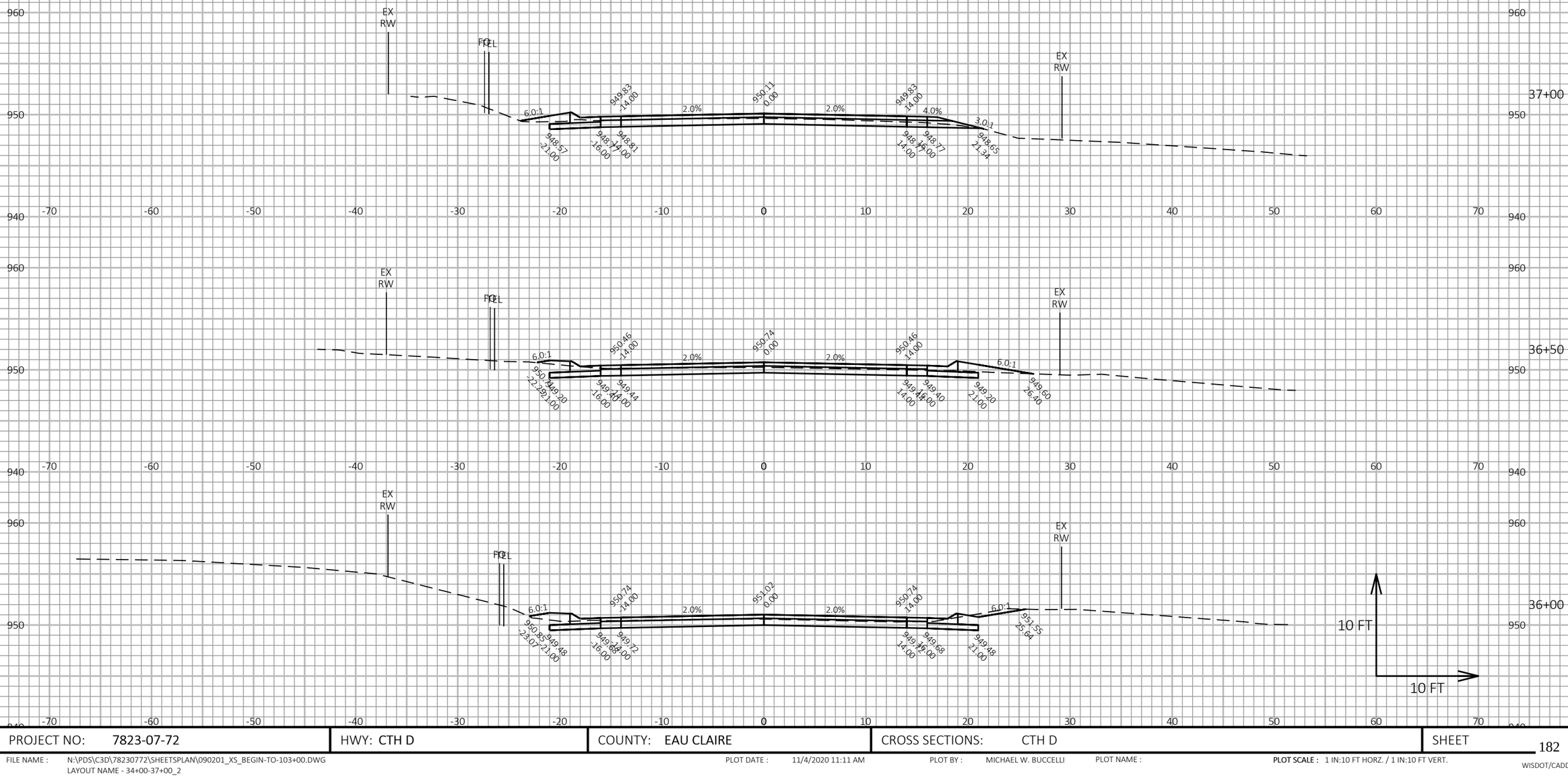


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 181	E

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LAYOUT NAME - 34+00-37+00_1

PLOT DATE : 11/4/2020 11:11 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



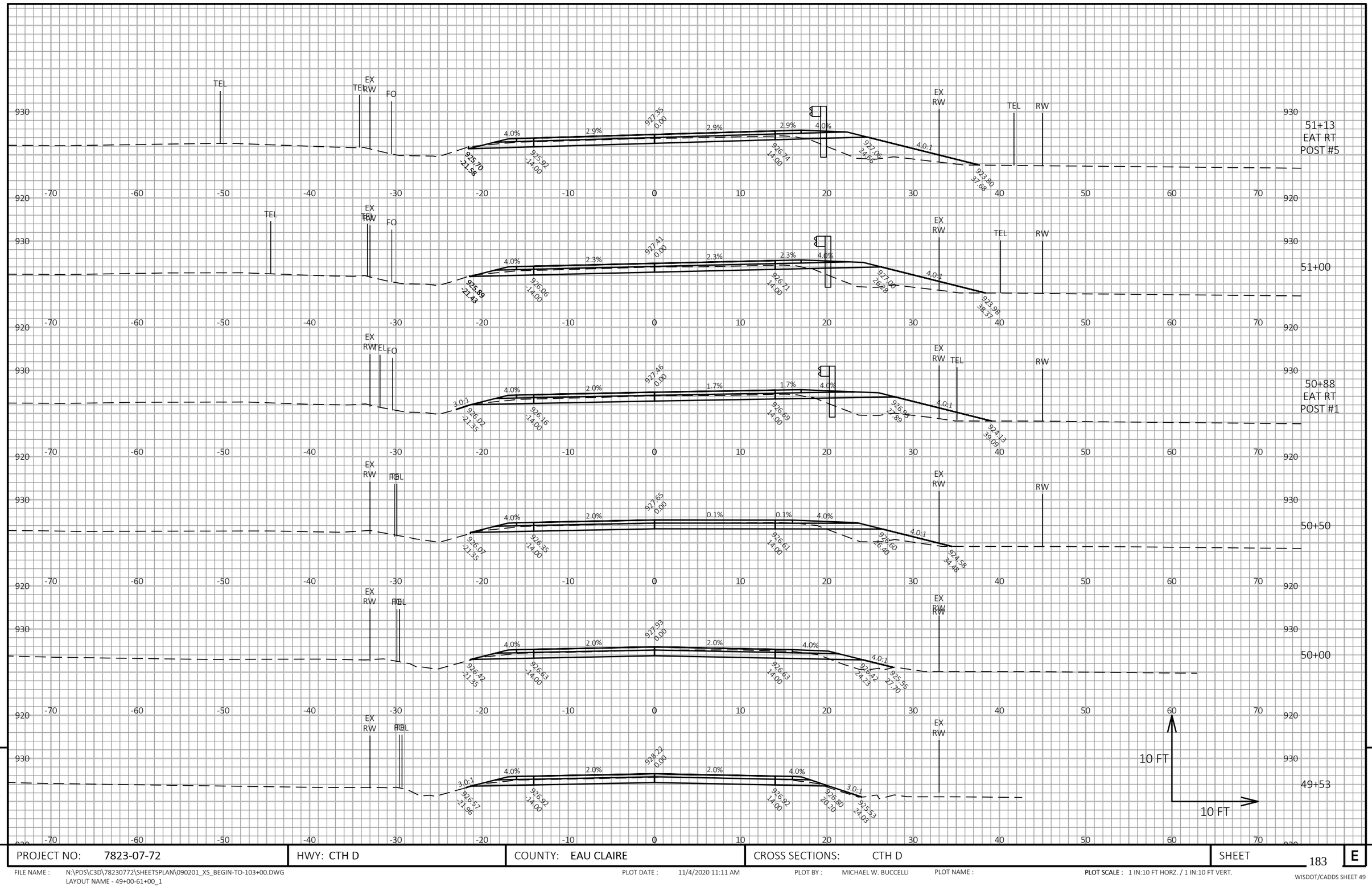
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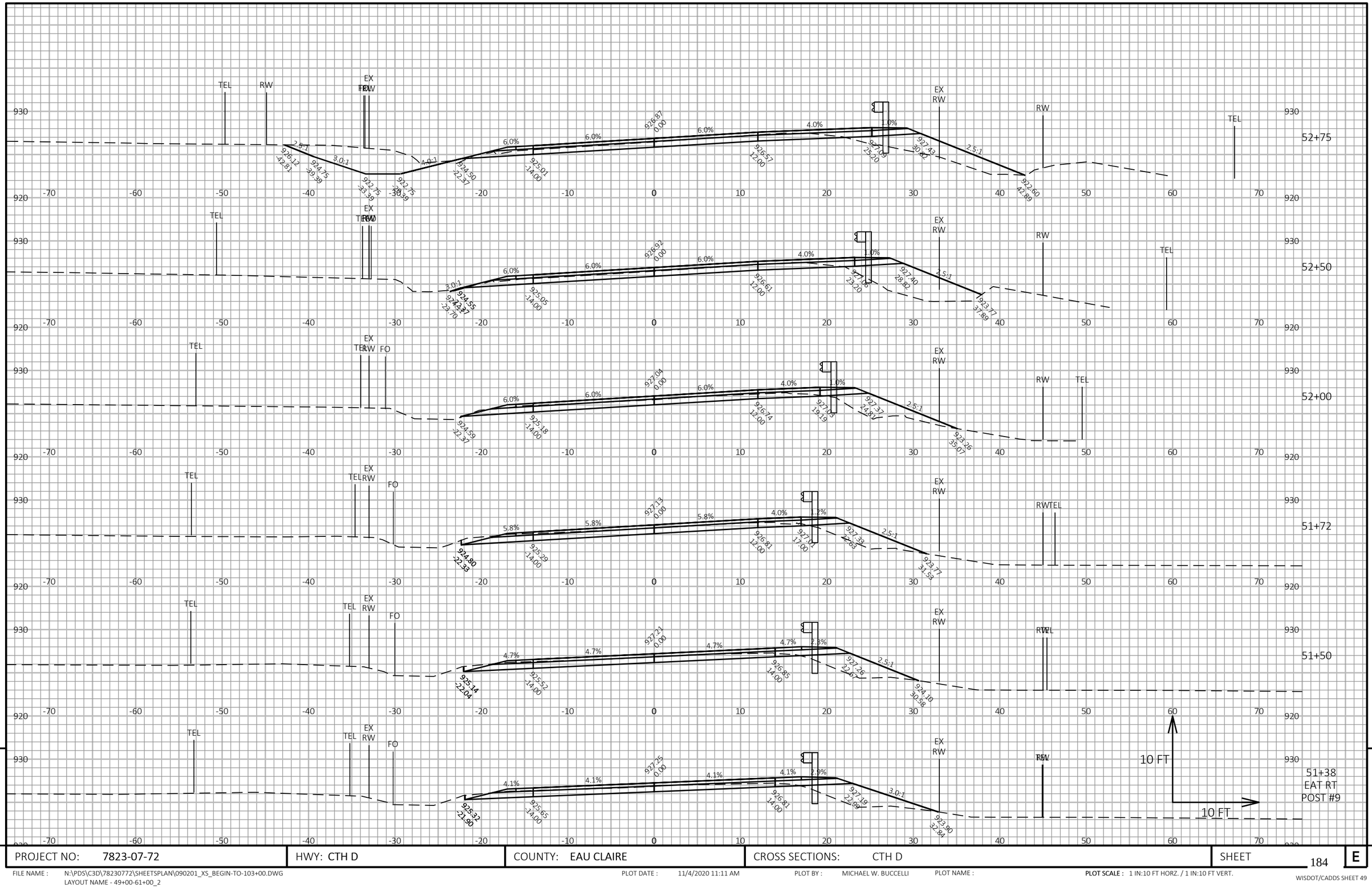
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LAYOUT NAME - 34+00-37+00_2

PLOT DATE : 11/4/2020 11:11 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49


51+13
EAT RT
POST #5
TEL
EX RW
FO
RW
4.0%
2.9%
927.35
0.00
925.70
-21.58
925.92
-14.00
926.74
14.00
927.06
24.76
923.80
37.68
4.0:1
51+00
927.41
925.89
-21.43
926.06
926.71
927.05
25.28
923.98
38.37
50+88
EAT RT
POST #1
2.0%
1.7%
927.46
926.02
-21.35
926.16
926.69
926.93
27.89
924.13
39.09
50+50
FCL
2.0:1
927.65
926.07
926.35
926.61
926.60
26.40
924.58
34.46
50+00
927.93
926.42
926.63
926.63
926.42
24.23
925.55
27.70
49+53
927.22
926.57
21.96
926.92
926.92
926.80
20.20
925.53
24.03
3.0:1
10 FT
9
E
PROJECT NO: 7823-07-72
HWY: CTH D
COUNTY: EAU CLAIRE
CROSS SECTIONS: CTH D
SHEET 183
FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 49+00-61+00_1
PLOT DATE : 11/4/2020 11:11 AM
PLOT BY : MICHAEL W. BUCCELLI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

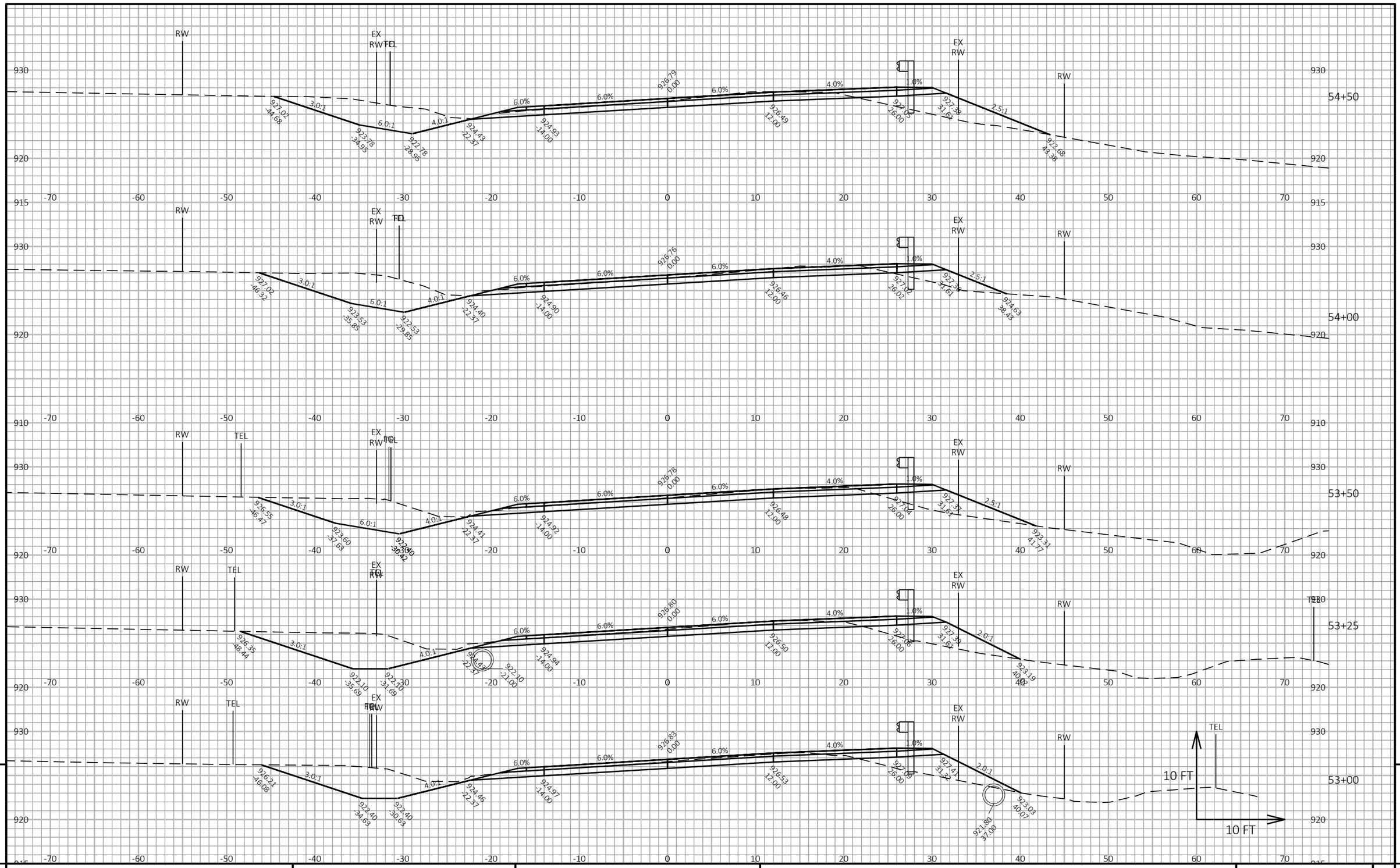


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 184	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 49+00-61+00_2

PLOT DATE : 11/4/2020 11:11 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 185	E

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LAYOUT NAME - 49+00-61+00_3

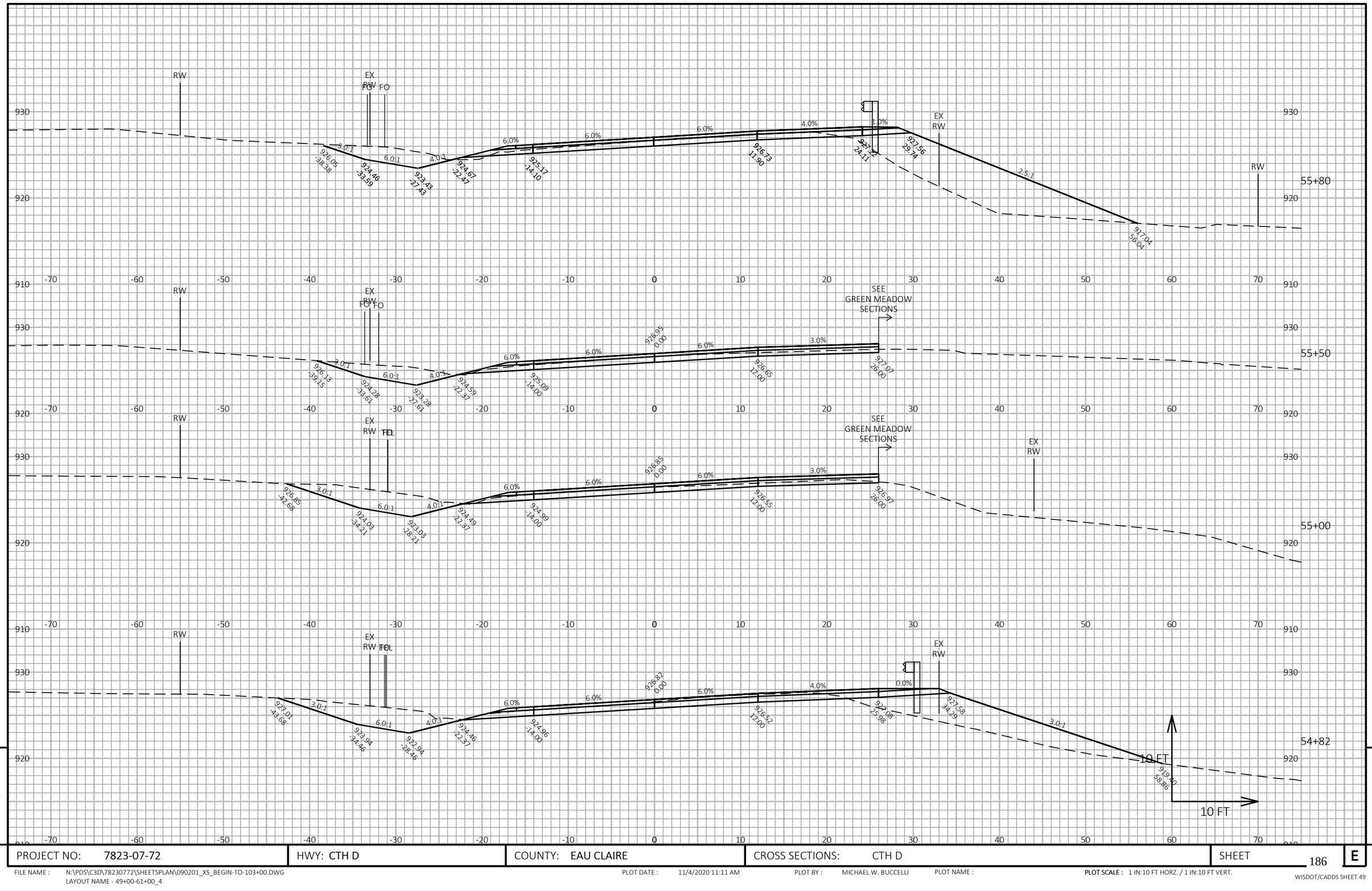
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PLOT BY : MICHAEL W. BUCCELLI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 186	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 49+00-61+00_4

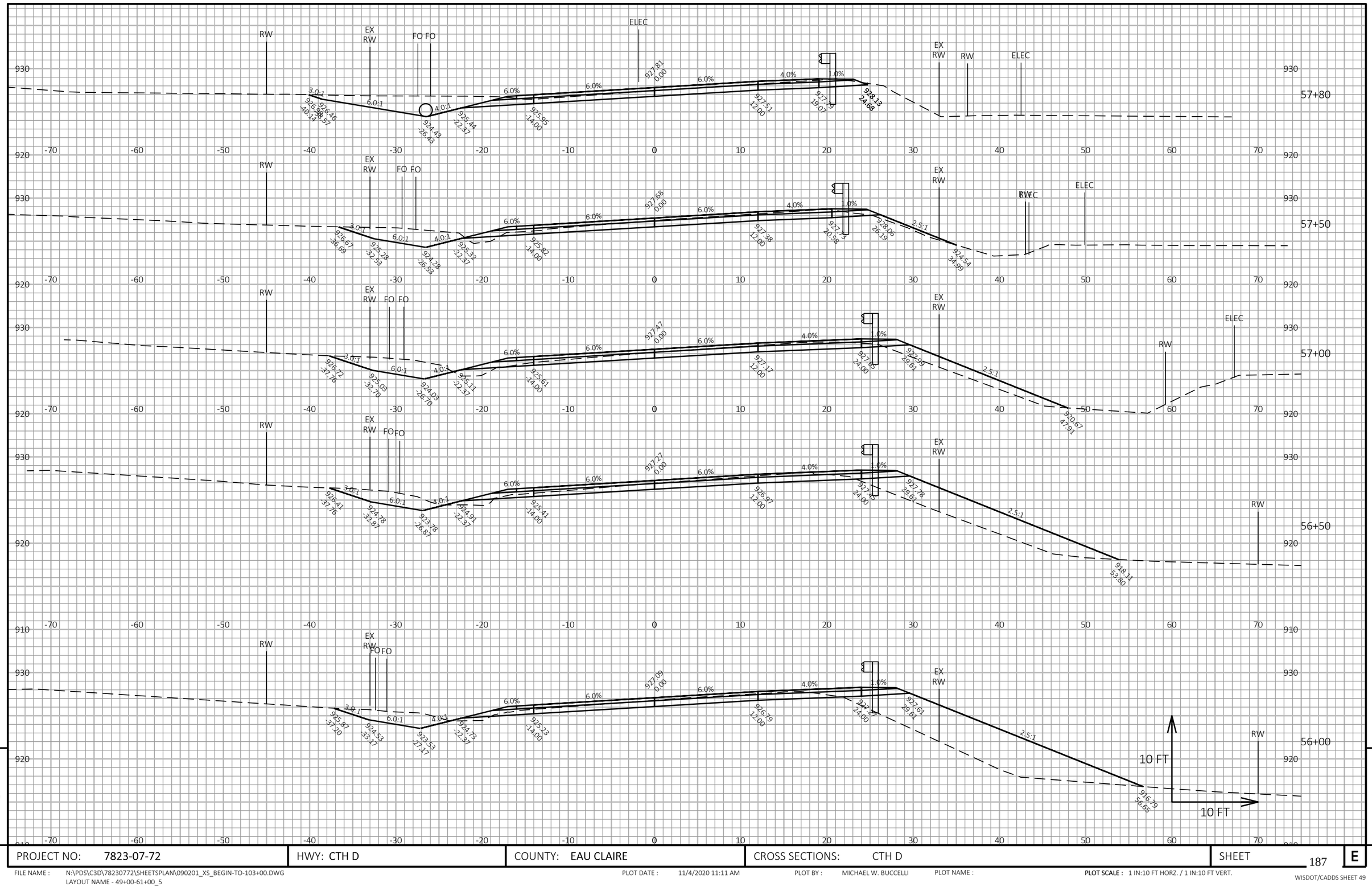
PLOT DATE : 11/4/2020 11:11 AM

PLOT BY : MICHAEL W. BUCCELLI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

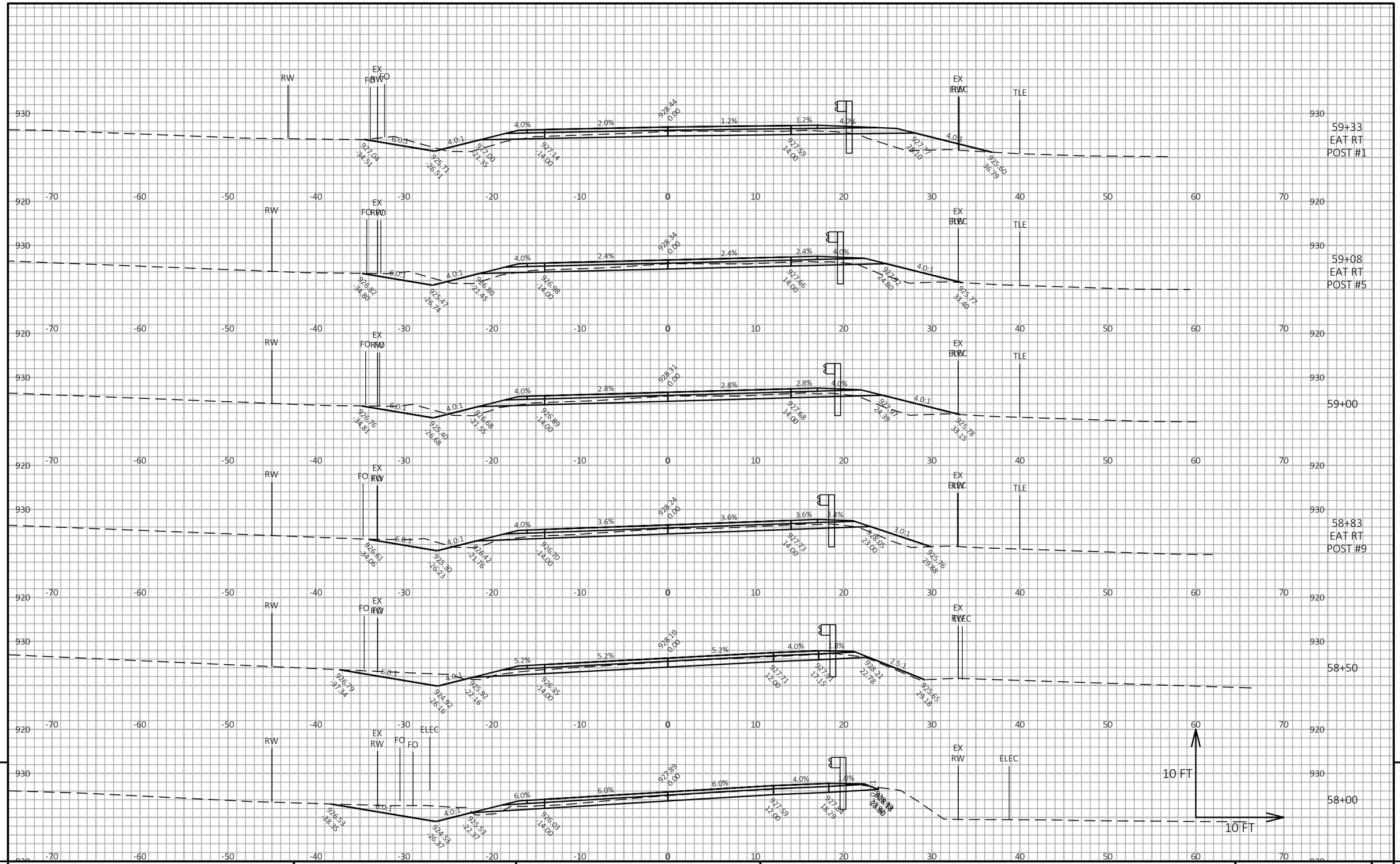


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 187 E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 49+00-61+00_5

PLOT DATE : 11/4/2020 11:11 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

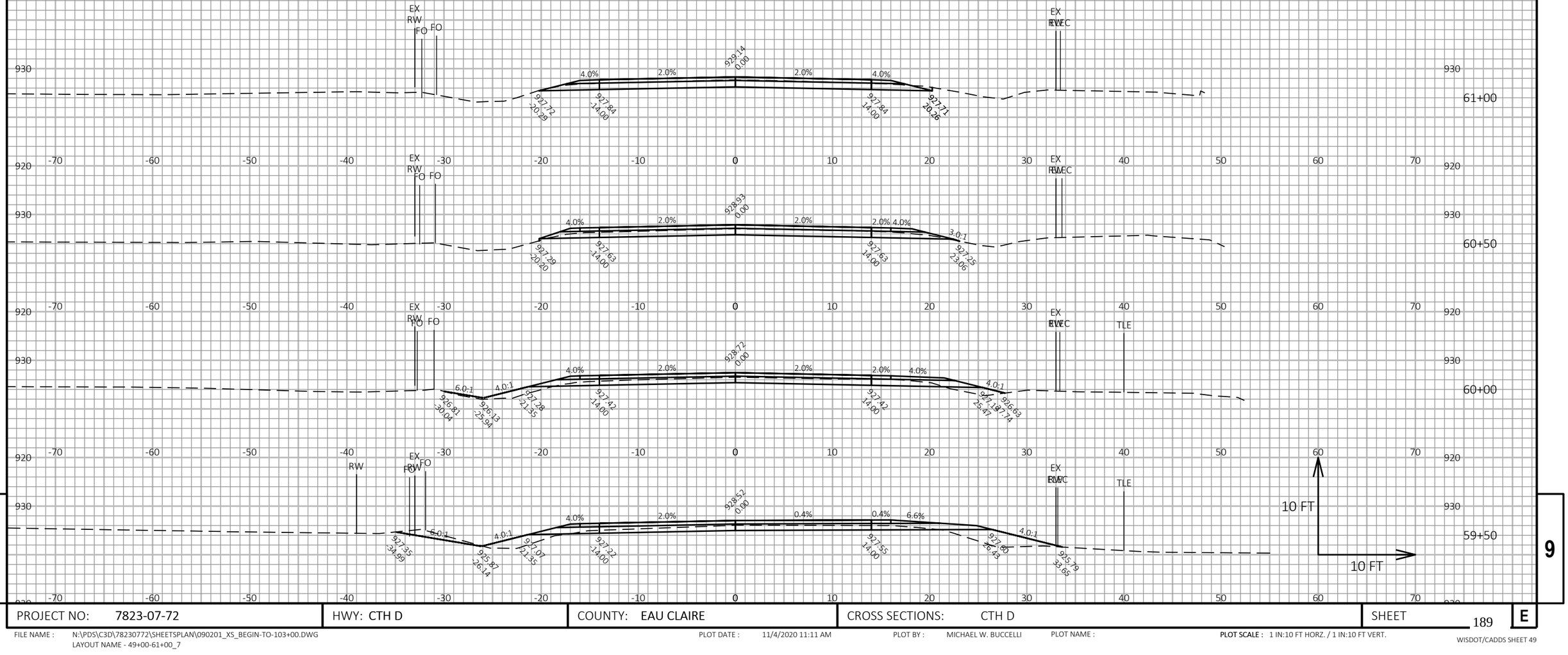


PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 188	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 49+00-61+00_6

PLOT DATE : 11/4/2020 11:11 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



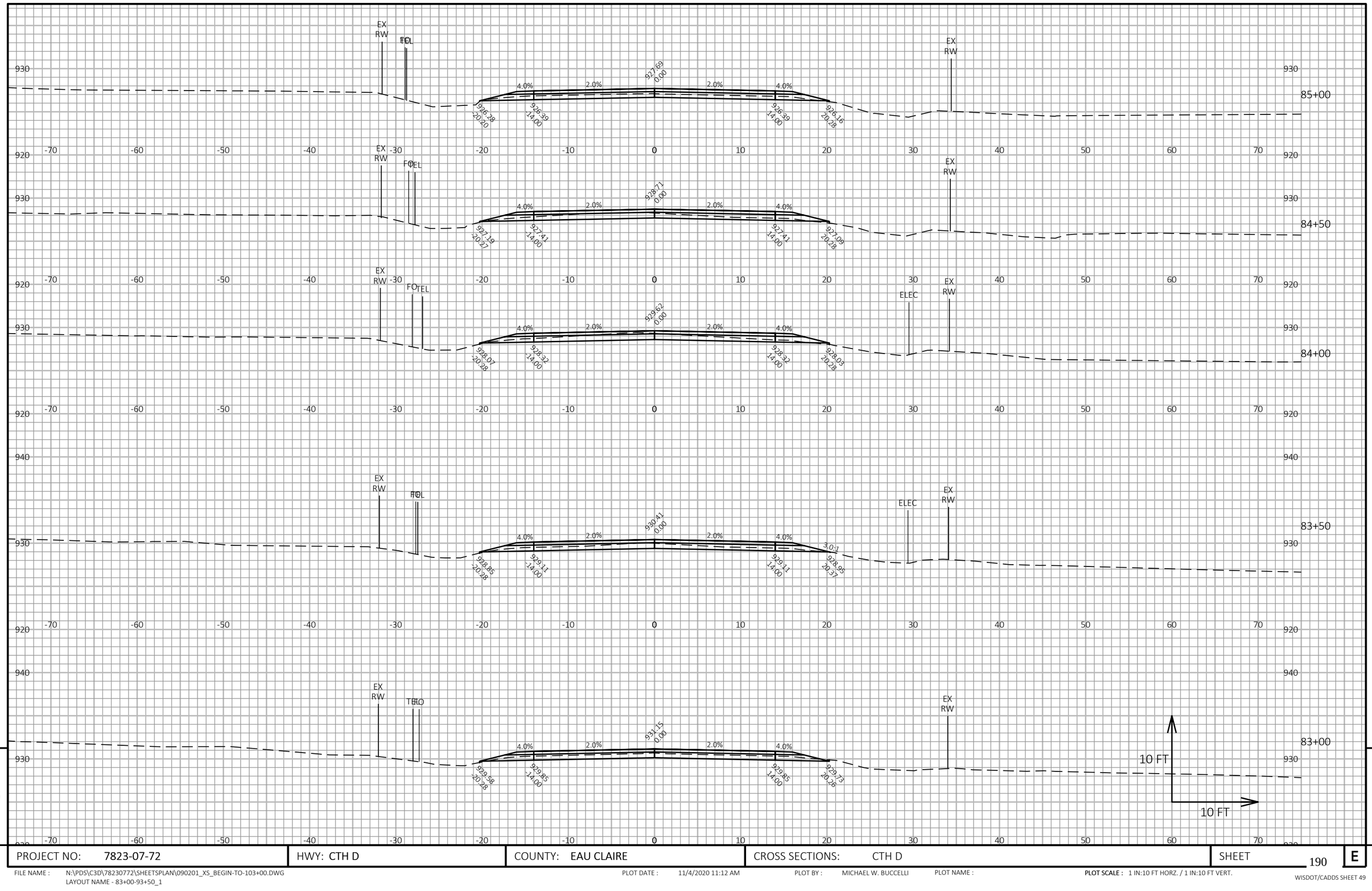
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 189	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 49+00-61+00_7

PLOT DATE : 11/4/2020 11:11 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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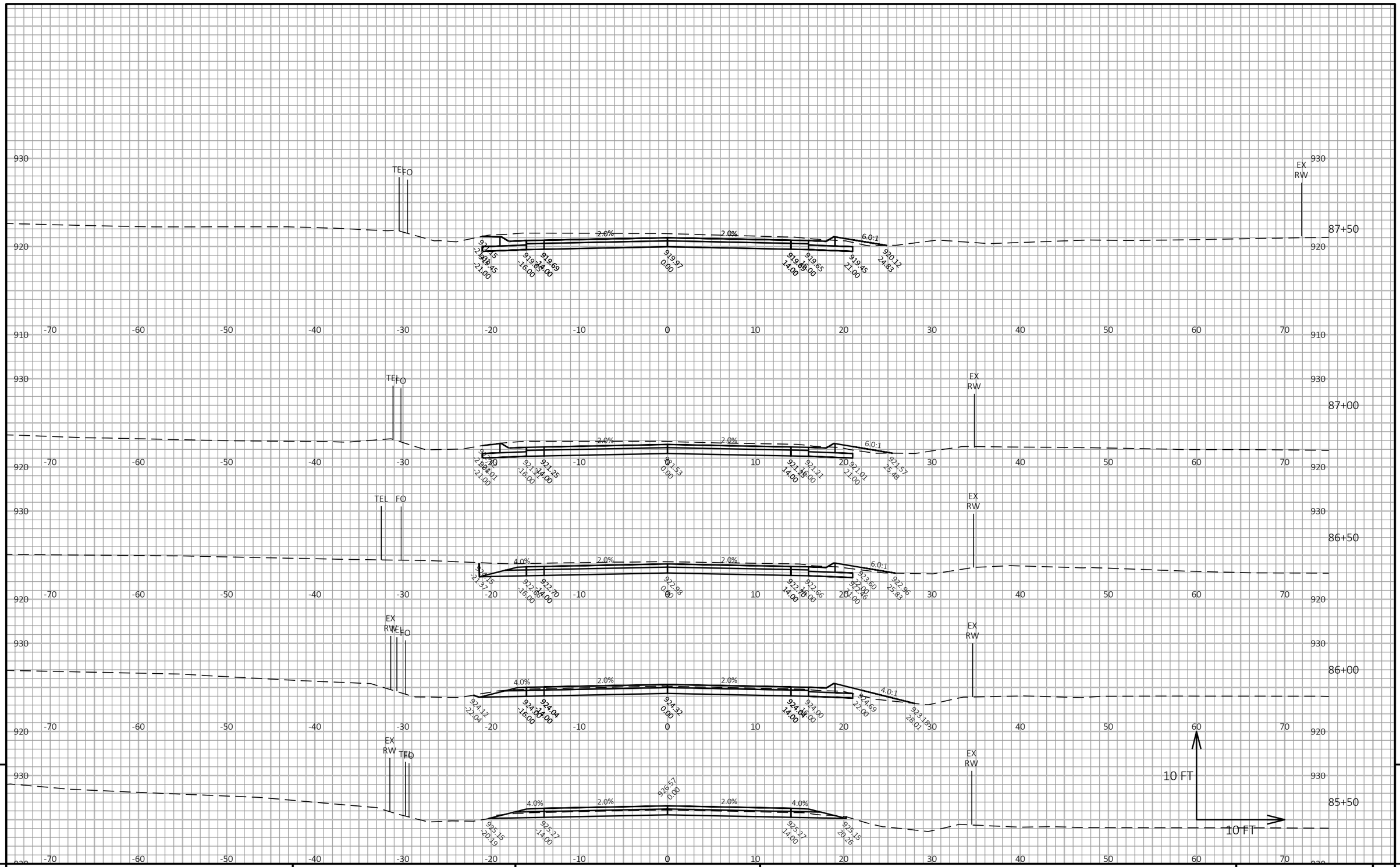
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FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 83+00-93+50_1

PLOT DATE : 11/4/2020 11:12 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



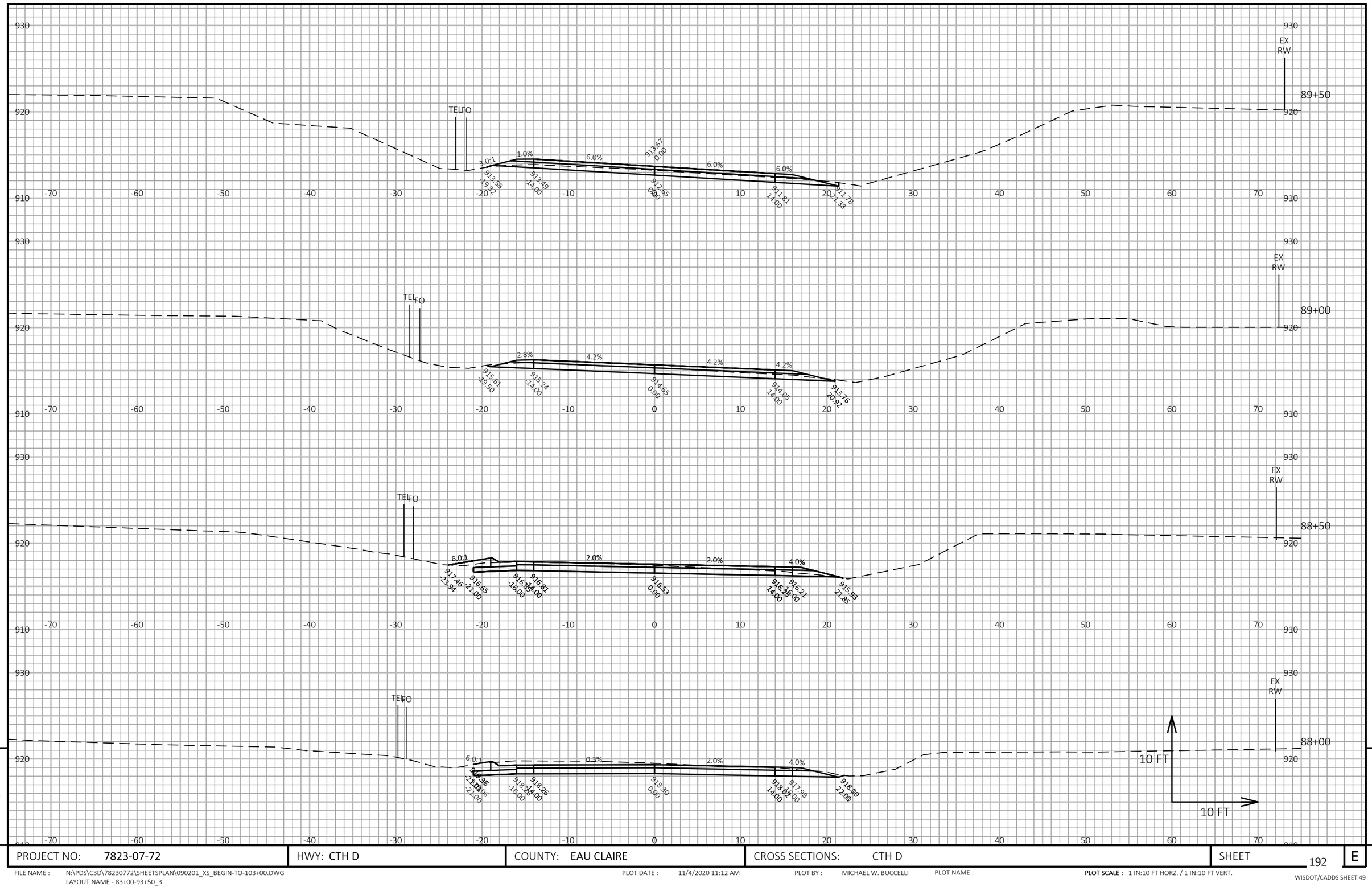
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FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 83+00-93+50_2

PLOT DATE : 11/4/2020 11:12 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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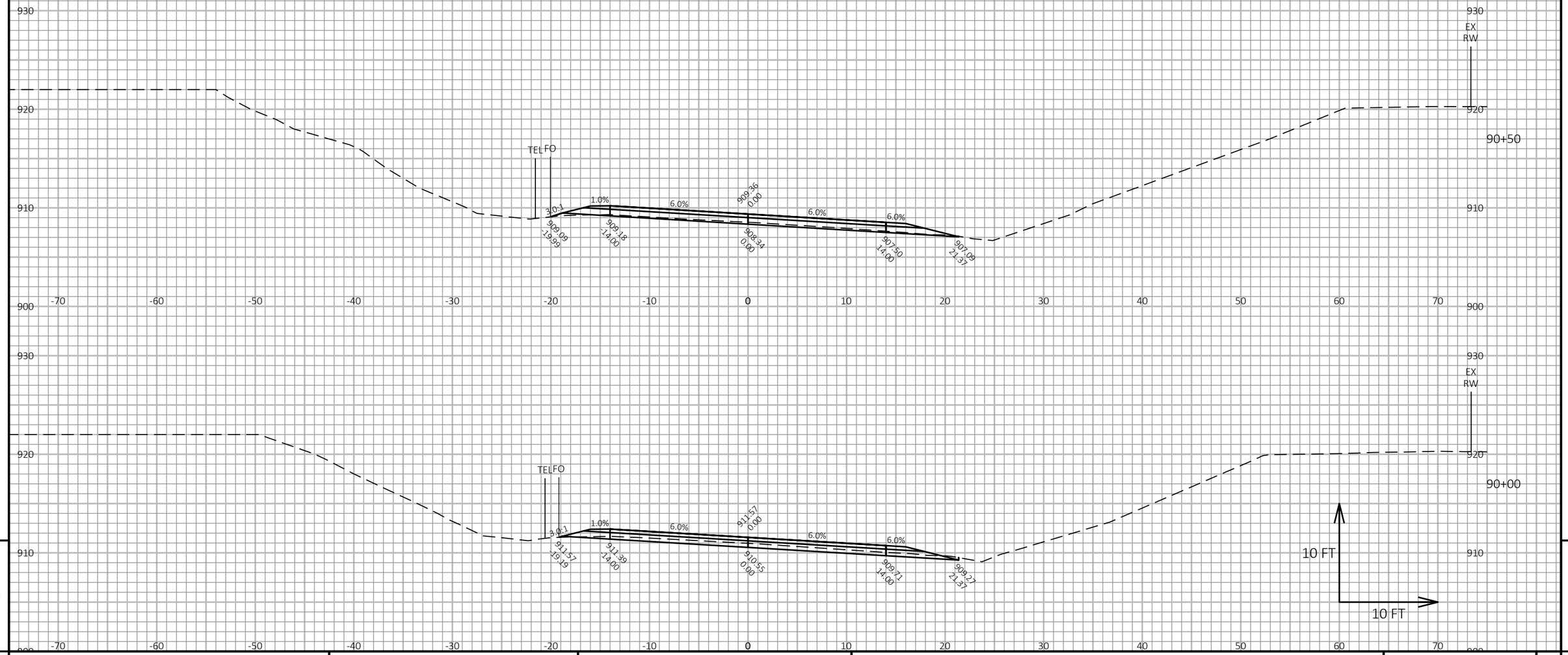
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FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 83+00-93+50_3

PLOT DATE : 11/4/2020 11:12 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



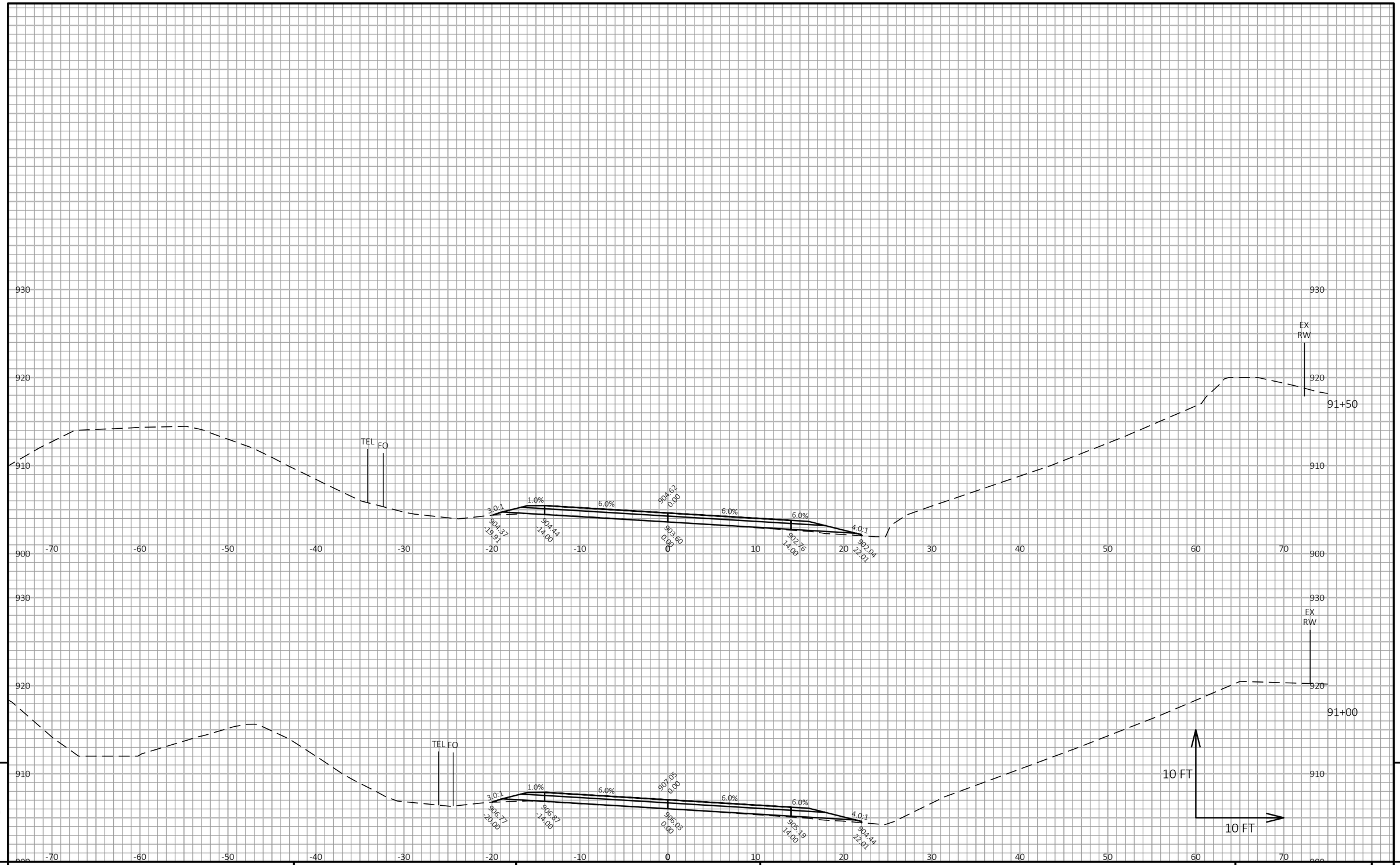
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FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 83+00-93+50_4

PLOT DATE : 11/4/2020 11:12 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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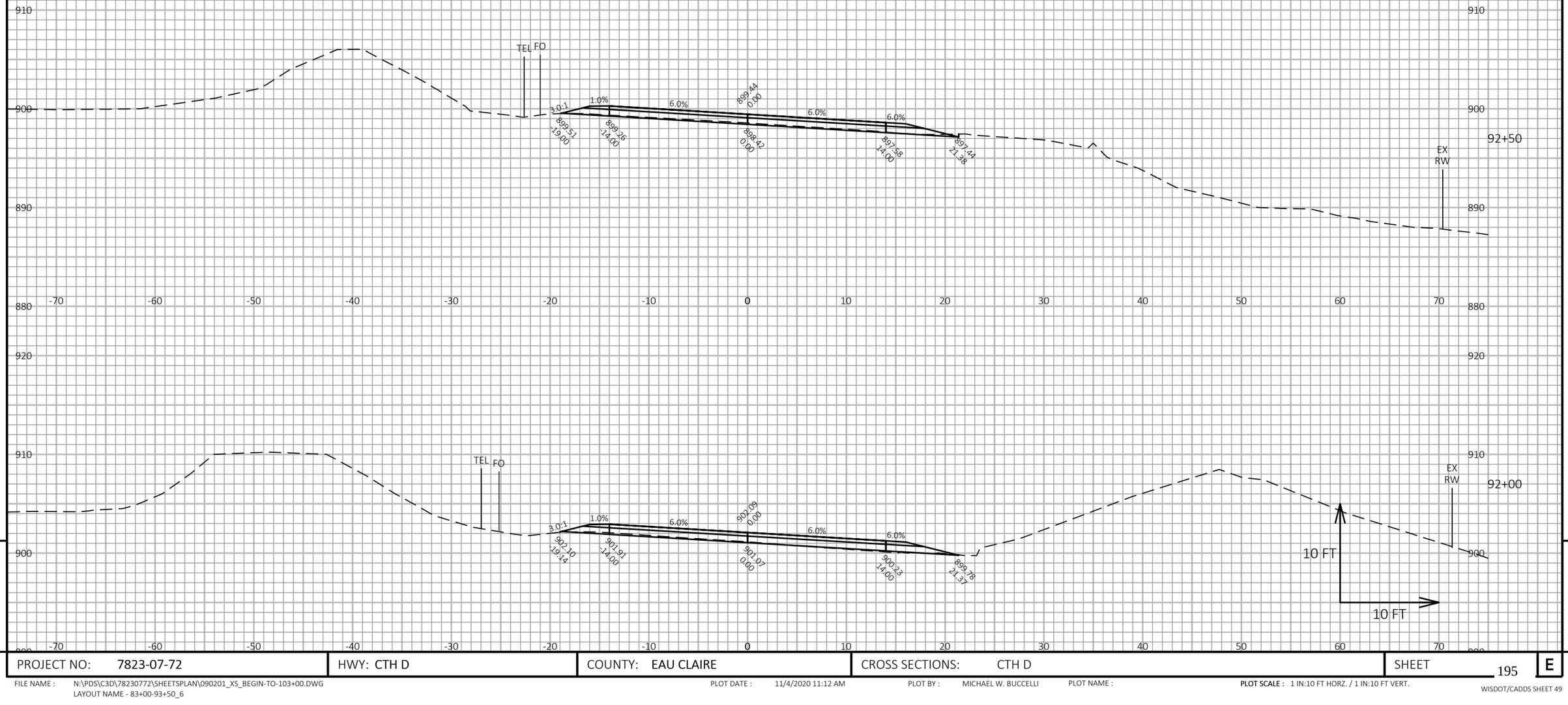
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 194	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 83+00-93+50_5

PLOT DATE : 11/4/2020 11:12 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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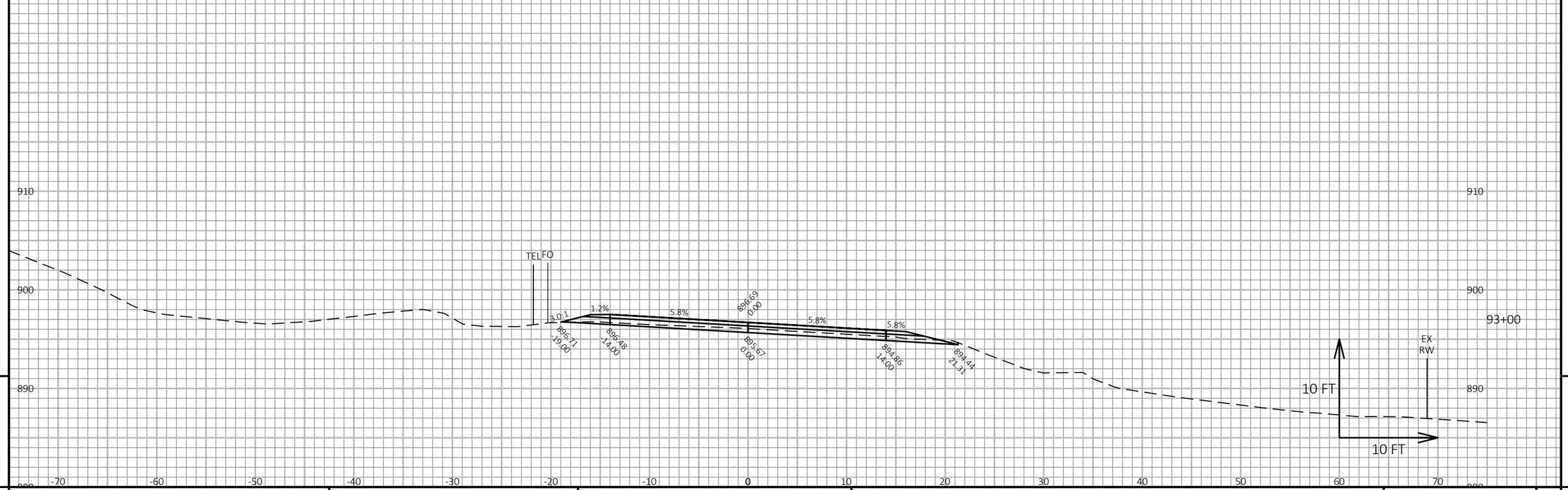
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 195	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 83+00-93+50_6

PLOT DATE : 11/4/2020 11:12 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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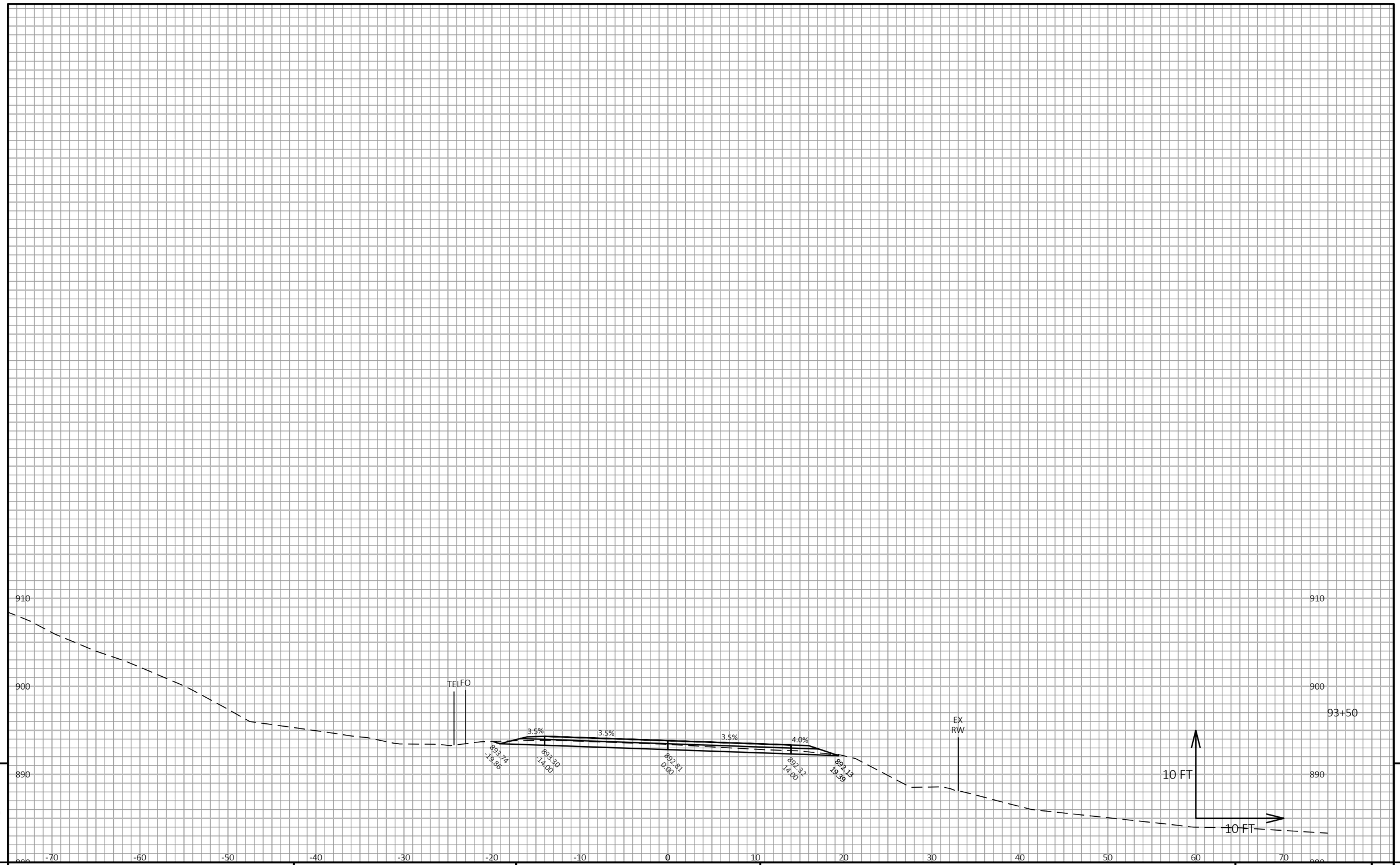
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PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 196	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 83+00-93+50_7

PLOT DATE : 11/4/2020 11:12 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 197	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - 83+00-93+50_8

PLOT DATE : 11/4/2020 11:12 AM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 198	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 106+00-108+00_1

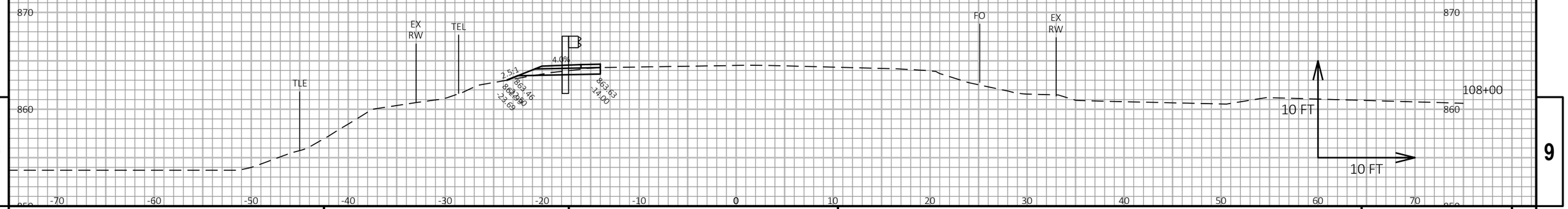
PLOT DATE : 11/4/2020 12:26 PM

PLOT BY : MICHAEL W. BUCCELLI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 199	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 106+00-108+00_2

PLOT DATE : 11/4/2020 12:27 PM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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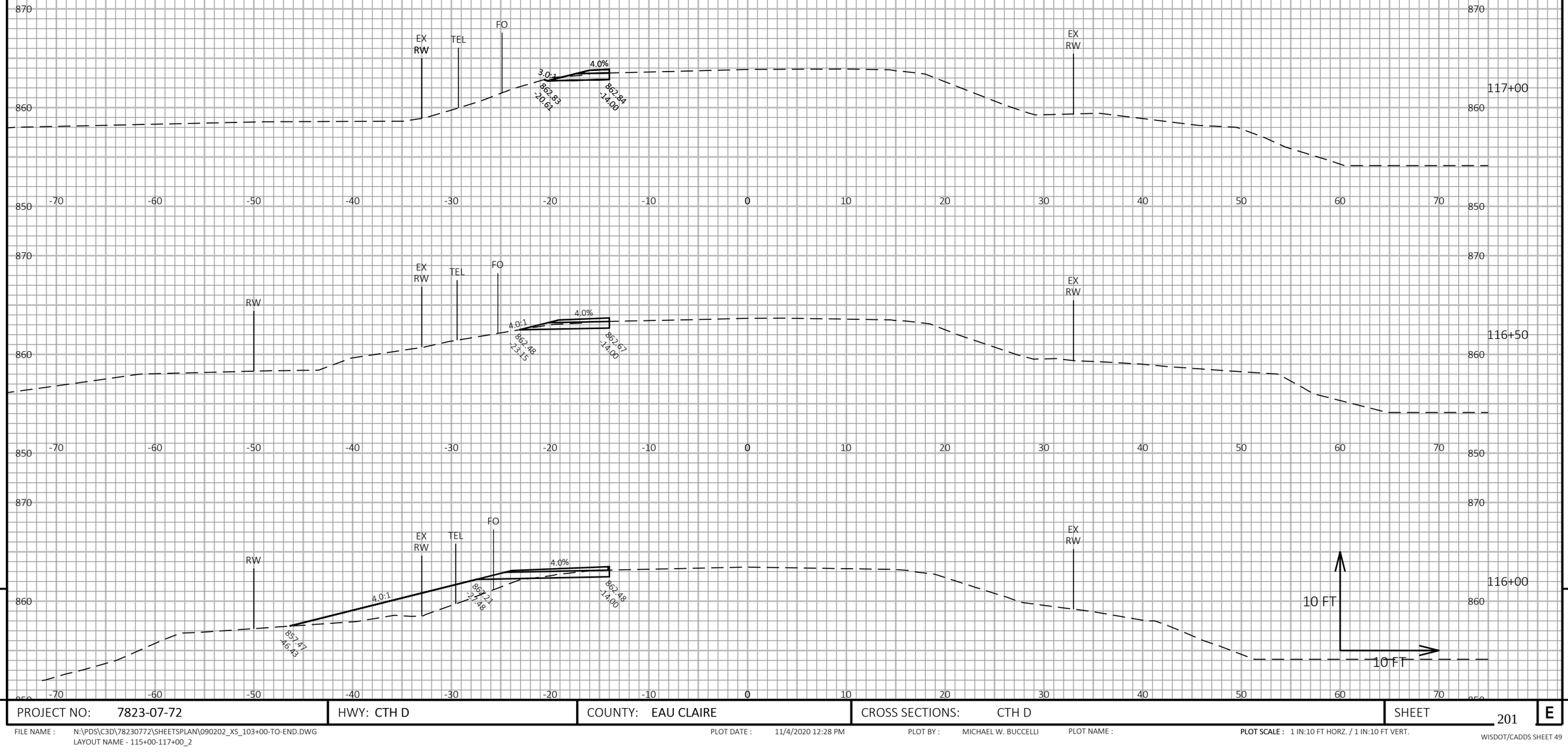
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 200	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 115+00-117+00_1

PLOT DATE : 11/4/2020 12:28 PM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 201	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 115+00-117+00_2

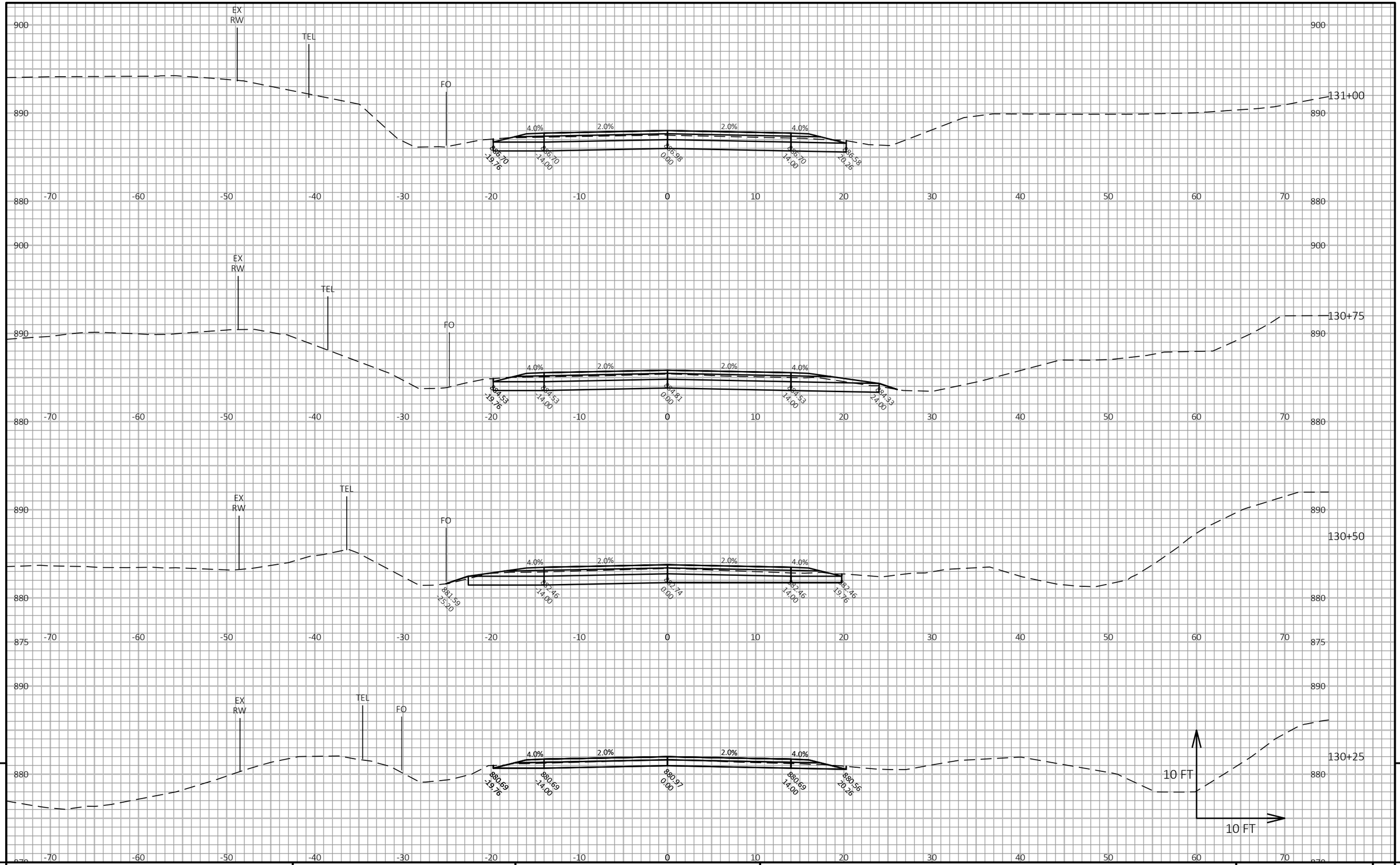
PLOT DATE : 11/4/2020 12:28 PM

PLOT BY : MICHAEL W. BUCCELLI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 202	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 130+25-132+00_1

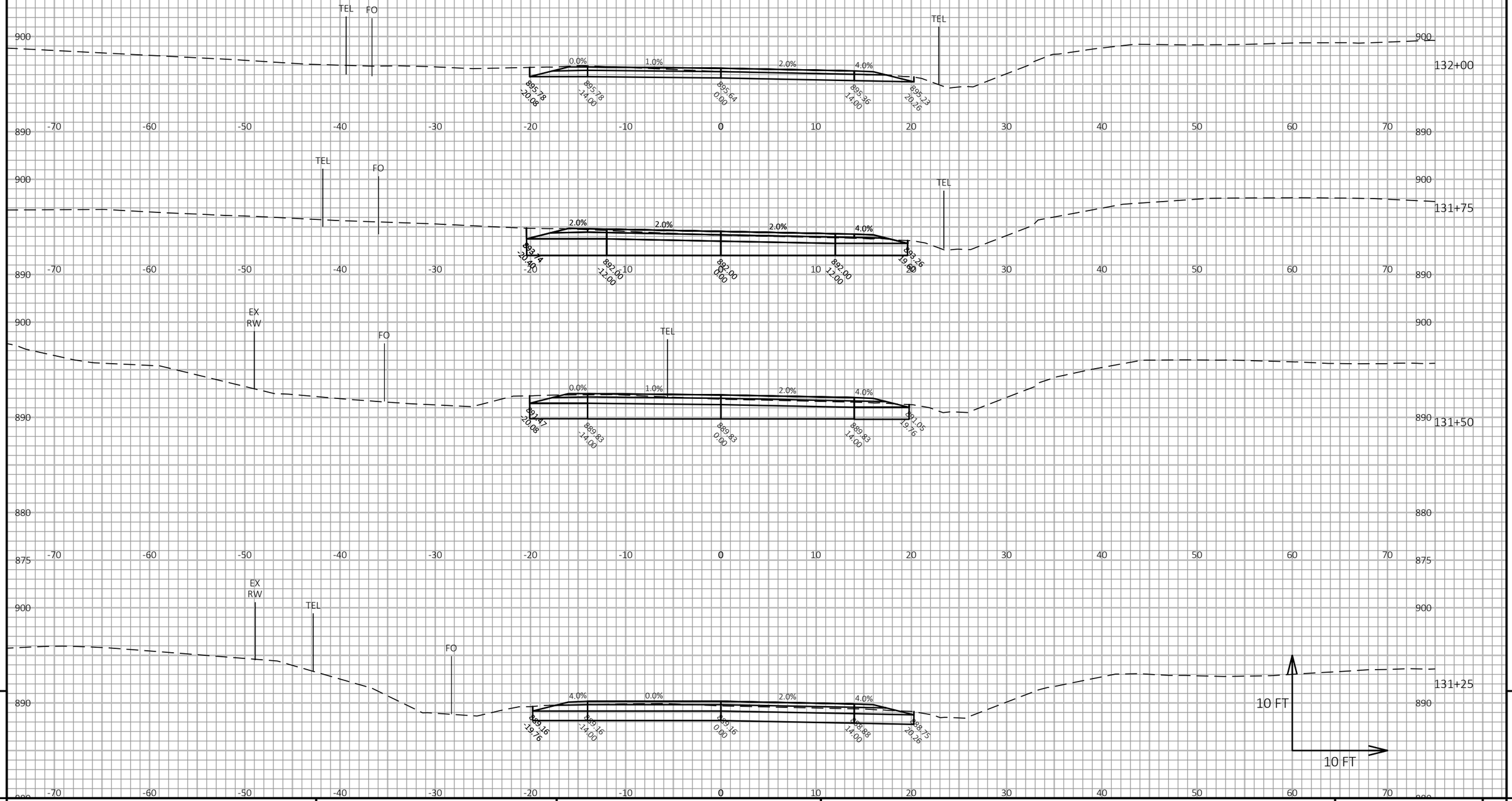
PLOT DATE : 1/12/2021 8:02 PM

PLOT BY : MICHAEL W. BUCCELLI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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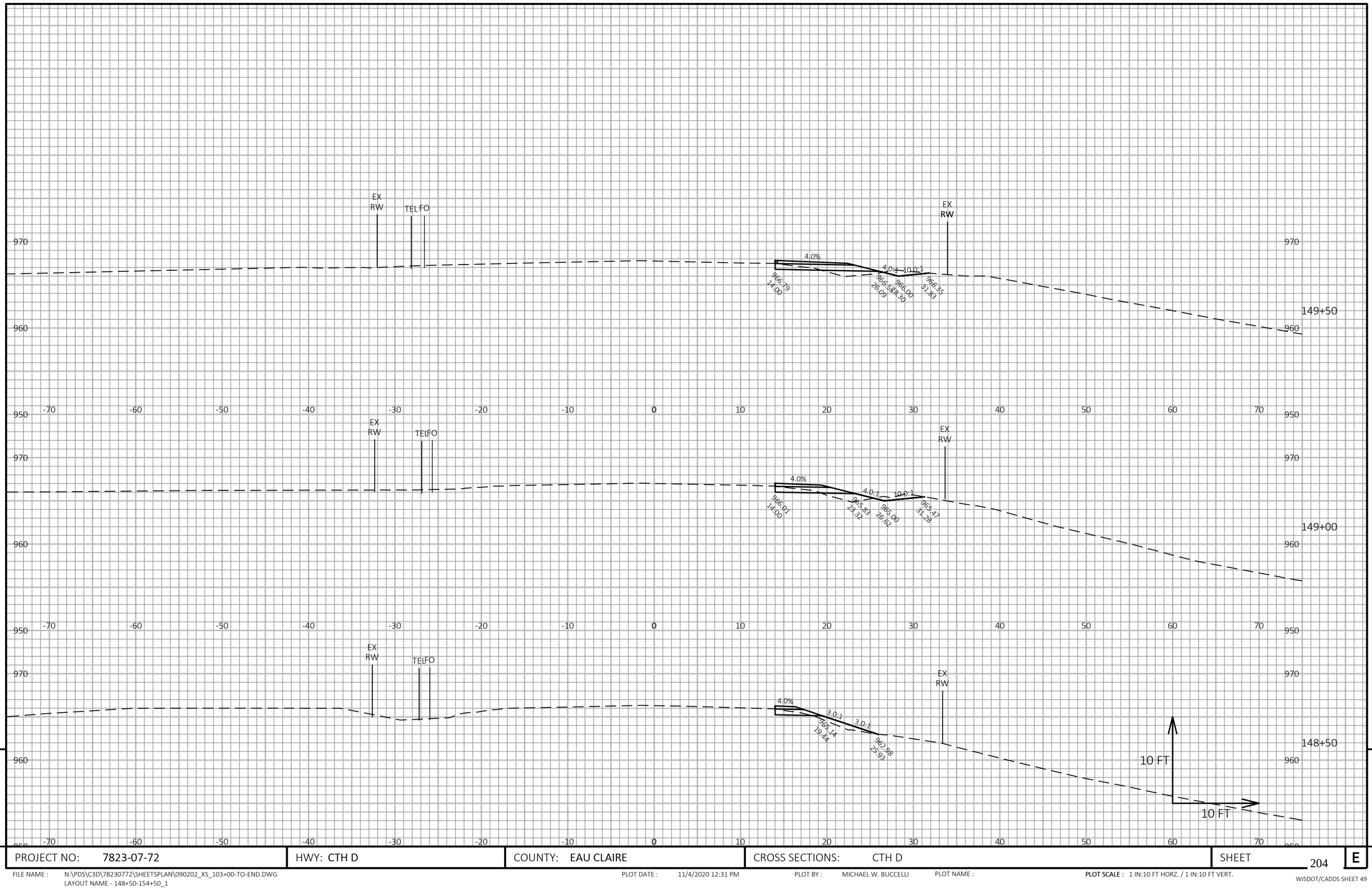
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 203	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 130+25-132+00_2

PLOT DATE : 11/4/2020 12:30 PM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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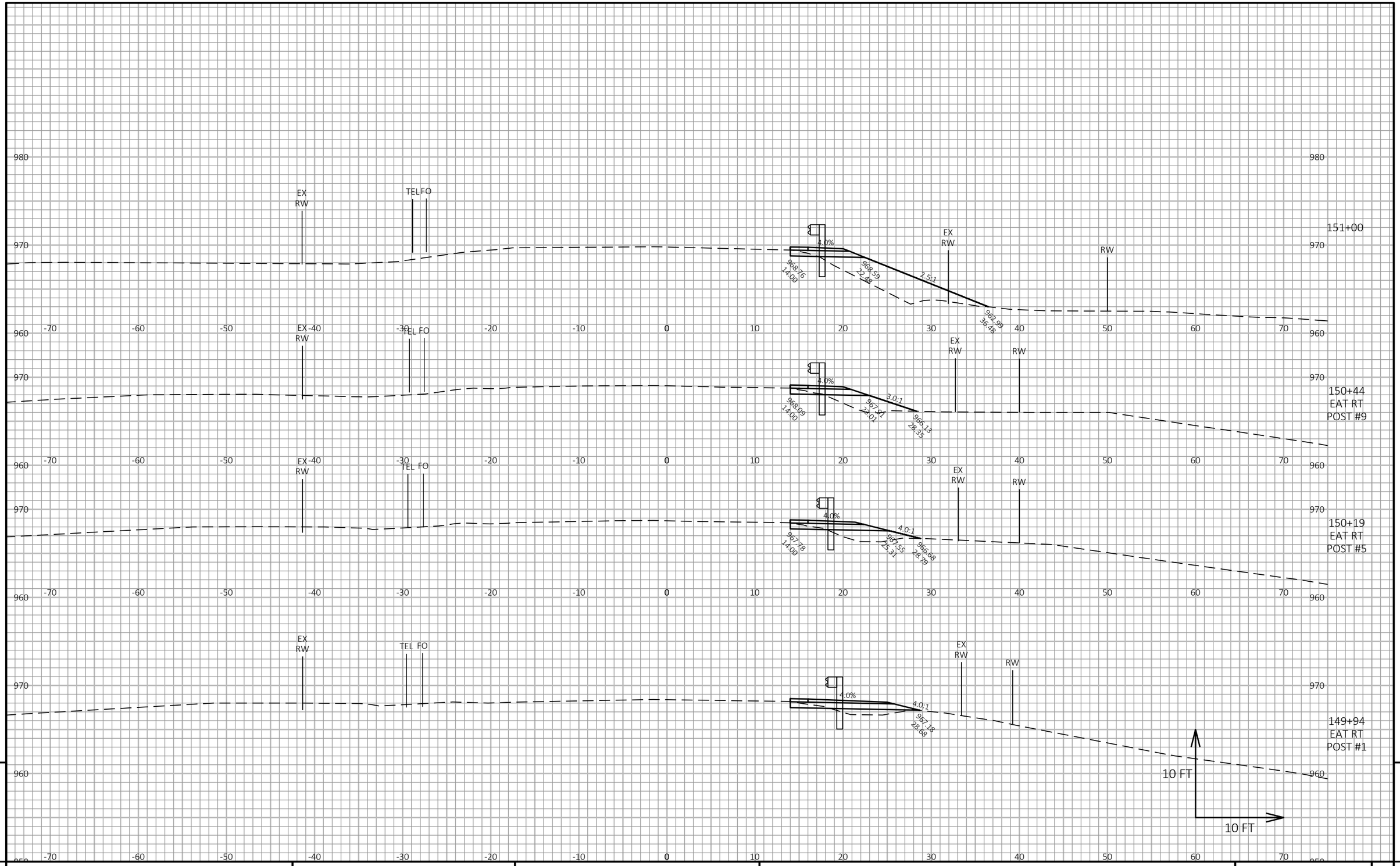
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 204	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 148+50-154+50_1

PLOT DATE : 11/4/2020 12:31 PM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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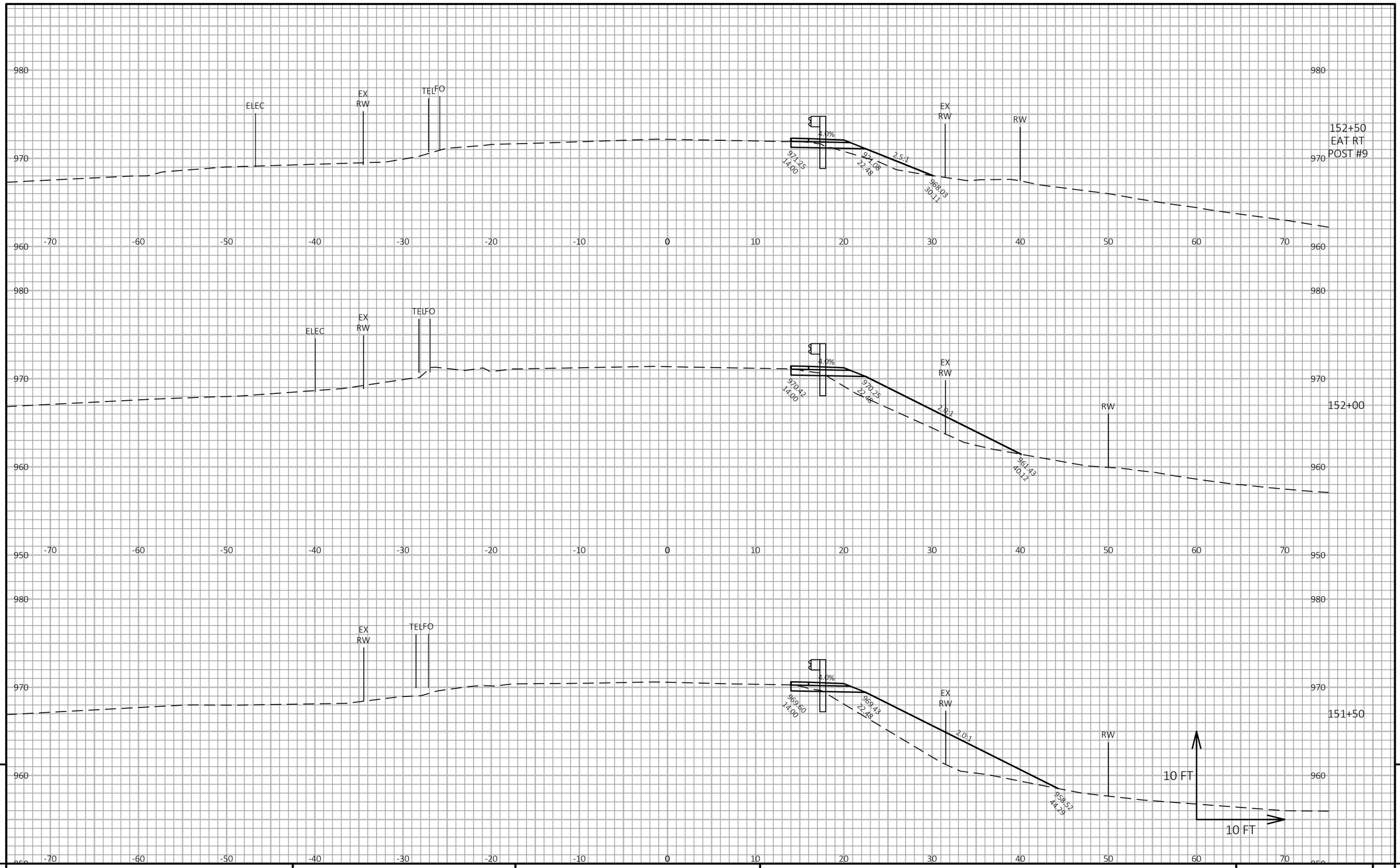
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FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 148+50-154+50_2

PLOT DATE : 11/4/2020 12:31 PM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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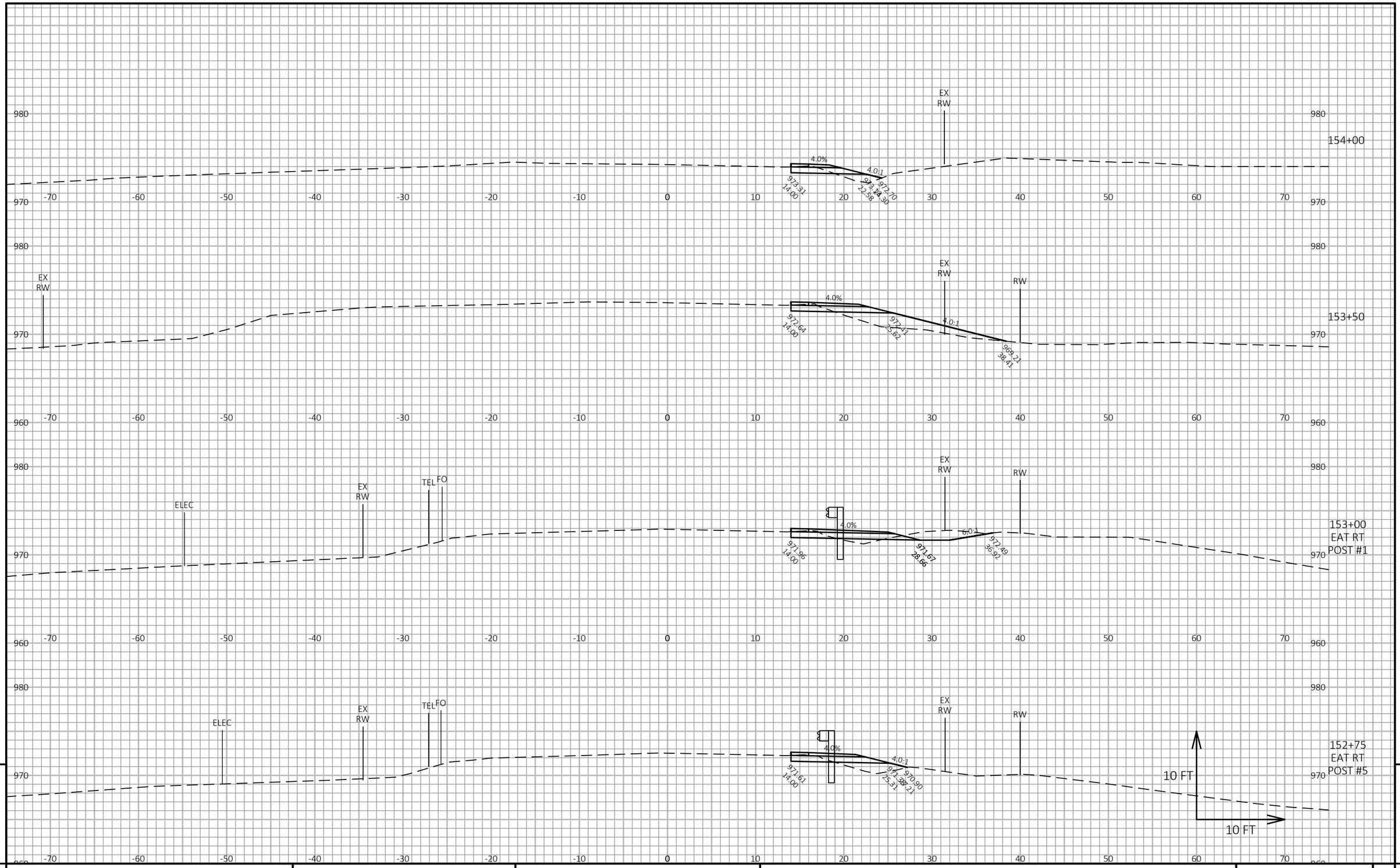
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FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 148+50-154+50_3

PLOT DATE : 11/4/2020 12:32 PM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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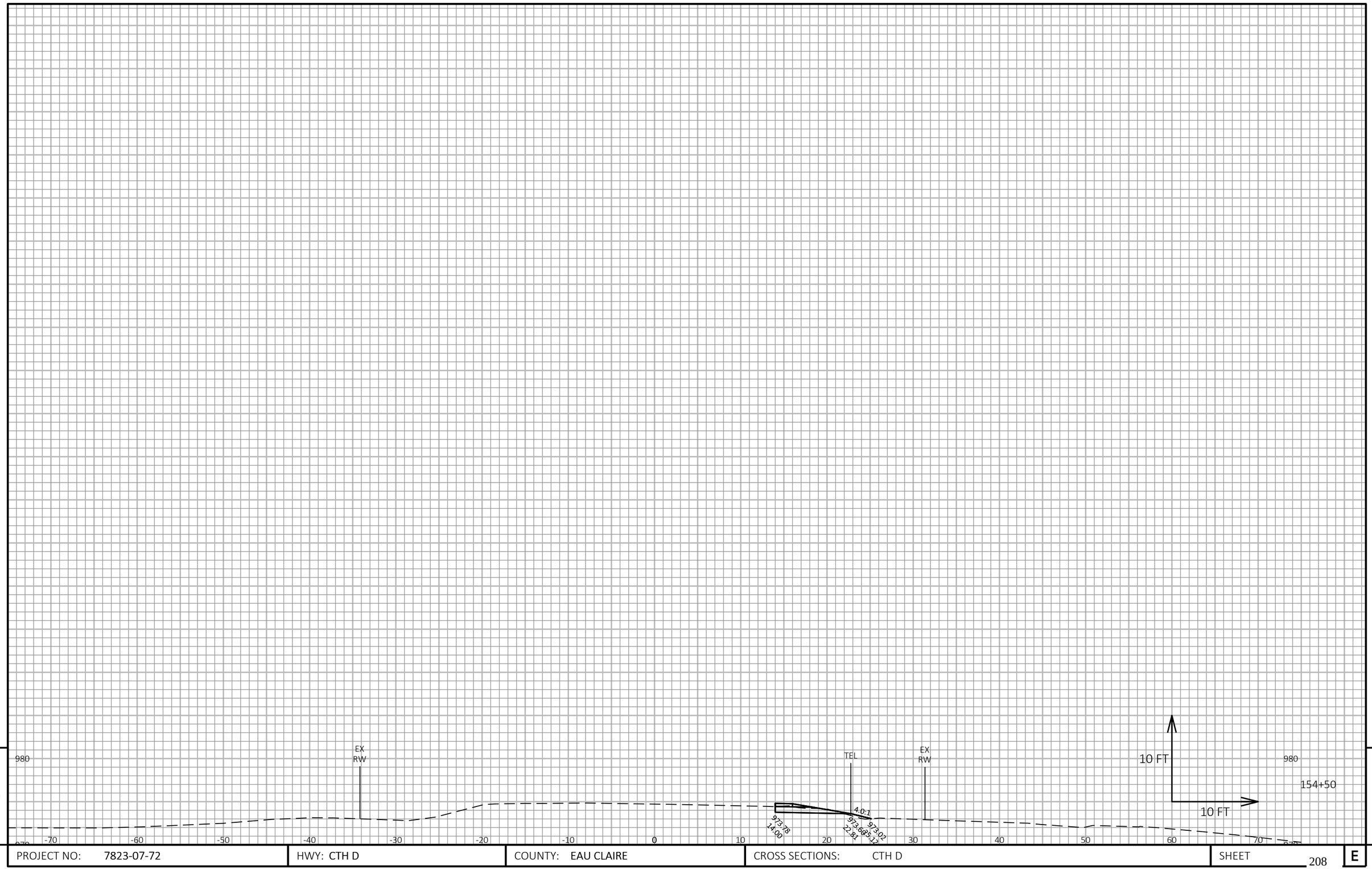
PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 207	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 148+50-154+50_4

PLOT DATE : 11/4/2020 12:33 PM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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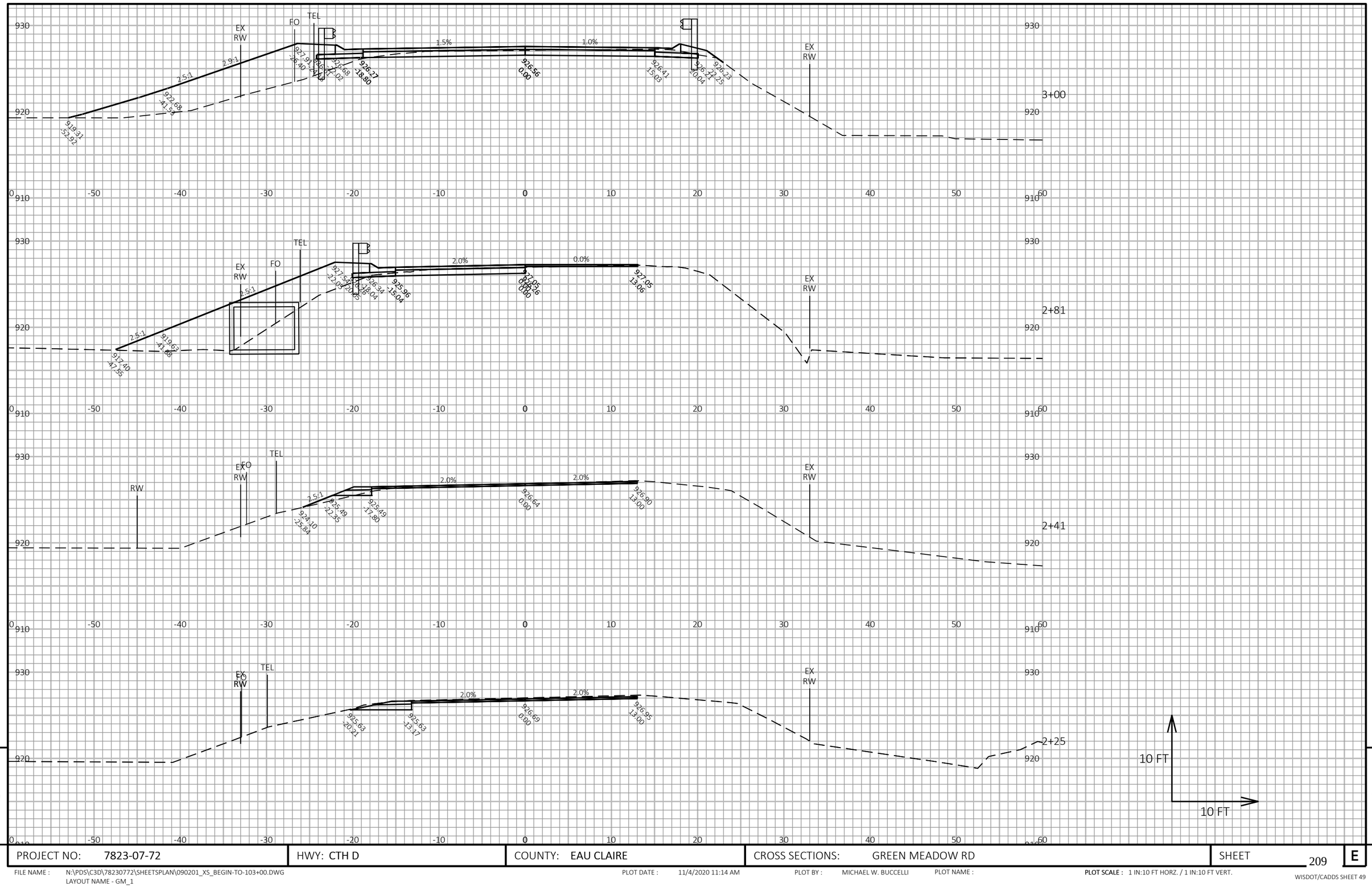
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PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: CTH D	SHEET 208	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090202_XS_103+00-TO-END.DWG
LAYOUT NAME - 148+50-154+50_5

PLOT DATE : 11/4/2020 12:33 PM PLOT BY : MICHAEL W. BUCCELLI PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 7823-07-72	HWY: CTH D	COUNTY: EAU CLAIRE	CROSS SECTIONS: GREEN MEADOW RD	SHEET 209	E

FILE NAME : N:\PDS\C3D\78230772\SHEETSPLAN\090201_XS_BEGIN-TO-103+00.DWG
LAYOUT NAME - GM_1

PLOT DATE : 11/4/2020 11:14 AM

PLOT BY : MICHAEL W. BUCCELLI

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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