WIS

PROJECT ID: 6150-01-76

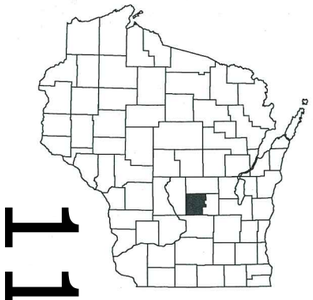
COUNTY: MARQUETTE

JUNE 2017

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 = 218



DESIGN DESIGNATION 6150-01+76

A.A.D.T.	2017	=	2300
A.A.D.T.	2037	=	4200
D.H.V.		=	17.7
D.D.		=	61/39
T.		=	18.8%
DESIGN SPEED		=	55 MPH
ESALS		=	277.40

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)
- OVERHEAD UTILITY (OH)
- 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

MONTELLO - WAUTOMA

PARK STREET TO CTH JJ

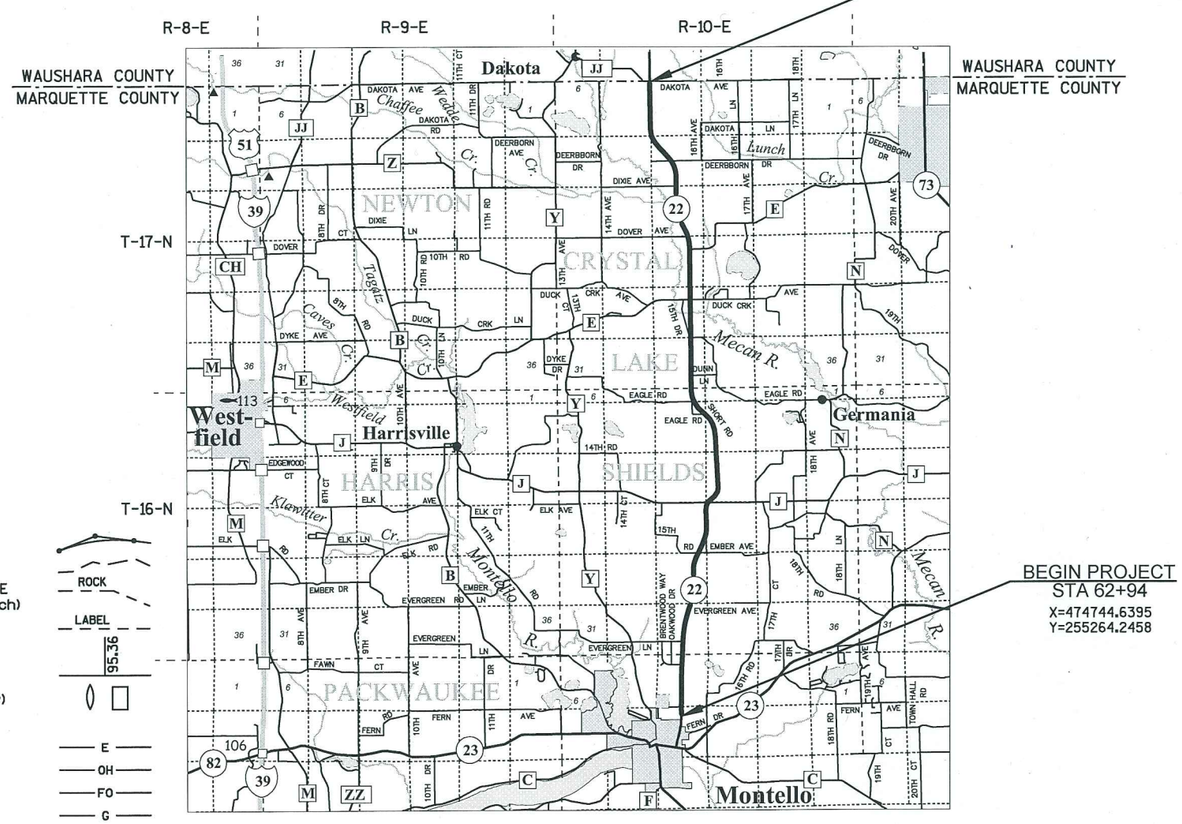
STH 22

MARQUETTE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
PROJECT ID	WISC 2017322	1

STATE PROJECT NUMBER
6150-01-76

END PROJECT
STA 777+42



BEGIN PROJECT
STA 62+94
X=474744.6395
Y=255264.2458

LAYOUT
SCALE 0 3 MILES

TOTAL NET LENGTH OF CENTERLINE = 13.531

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MARQUETTE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	NC REGION
Designer	ELIZABETH COLLINS
Project Manager	TIM HANLEY
Regional Examiner	CHERYL SIMON
Regional Supervisor	NICHOLE LYSNE

APPROVED FOR THE DEPARTMENT
DATE: 12-1-16 Timothy R Hanley (Signature)

E

GENERAL NOTES

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

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

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF A LANDMARK IN ALL AREAS WHERE SUCH A LANDMARK MAY EXIST.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

DIGGERS HOTLINE

Dial 811 or (800)242-8511

www.DiggersHotline.com

UTILITIES

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

ADAMS-COLUMBIA ELECTRIC CO-OP - ELECTRICITY
DUANE MOORE
401 EAST LAKE ST
PO BOX 70
FRIENDSHIP, WI 53934-0070
1-800-831-8629 EXT 424 WORK
dmoore@acecwi.com

ALLIANT ENERGY - ELECTRICITY
TOM WALTERS
506 FENTON ST
RIPON, WI 54971
(920) 748-4013 WORK
tomwalters@alliantenergy.com

AMERICAN TRANSMISSION CO - ELECTRICITY
DOUG VOSBERG
5303 FEN OAK DR
MADISON, WI 53718
(608) 877-7650 WORK
dvosberg@atcllc.com

DNR

BOBBIE JO FISCHER
WAUTOMA SERVICE CENTER
427 EAST TOWER DRIVE, SUITE 100
WAUTOMA, WI 54982
(920) 787-3015
bobbi.fischer@wisconsin.gov

CENTURY LINK - COMMUNICATION LINE
TIM KROEZE
201 STARK ST
RANDOLPH, WI 53956
(920) 326-2224 WORK
(920) 219-0112 MOBILE
tim.kroeze@centurylink.com

CHARTER COMMUNICATIONS - COMMUNICATION LINE
TONY KLATT
N3760 CTH DJ
JUNEAU, WI 53039
(920) 349-3202 EXT 72532 WORK
(920) 263-0062 MOBILE
tony.klatt@charter.com

FRONTIER NORTH INC - COMMUNICATIONS LINE
JERRY MOORE
2222 WEST WISCONSIN ST
PORTAGE, WI 53920
(608) 742-9507 WORK
(608) 346-0353 MOBILE
jerald.r.moore@ftr.com

MARQUETTE ADAMS TELEPHONE CO-OP INC - COMMUNICATON
JASON SENGBUSCH
113 NORTH OXFORD ST
OXFORD, WI 53952
(608) 586-4111 WORK
(608) 450-0707 MOBILE
jsengbusch@maadtelco.com

WE ENERGIES - GAS/PETROLEUM
TRAVIS KAHL
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
(715) 421-7256 WORK
(715) 498-6180 MOBILE
LaTroy.Brumfield@we-energies.com

PLAN OVERVIEW

PROJECT NO: 6150-01-76	HWY: 22	COUNTY: MARQUETTE	PLAN OVERVIEW	SHEET 3	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\020201-PO.DWG PLOT DATE : 5/19/2016 2:39 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1 IN:2400 FT

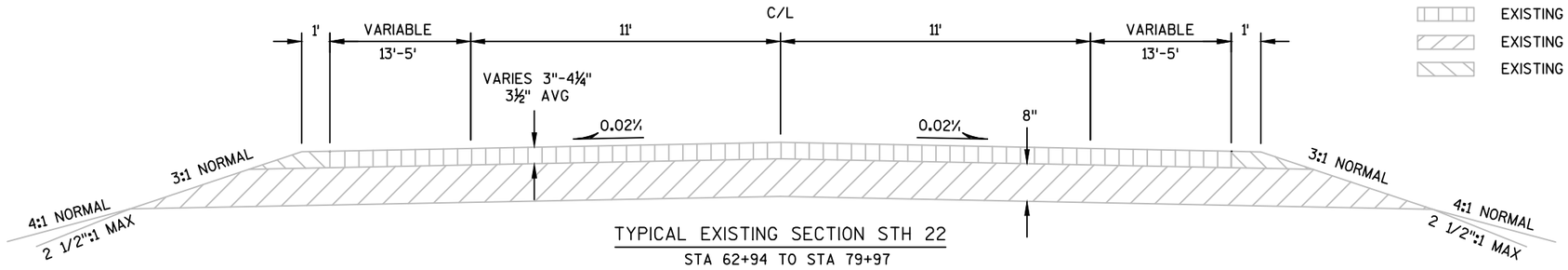
WISDOT/CADDS SHEET 42

LEGEND

EXISTING RECYCLED ASPHALTIC PAVEMENT

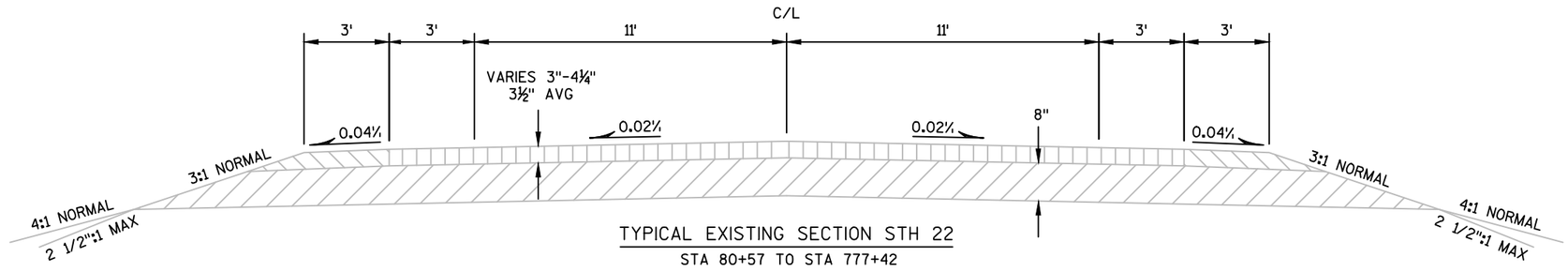
EXISTING BASE COURSE

EXISTING BASE COURSE (SHOULDER)



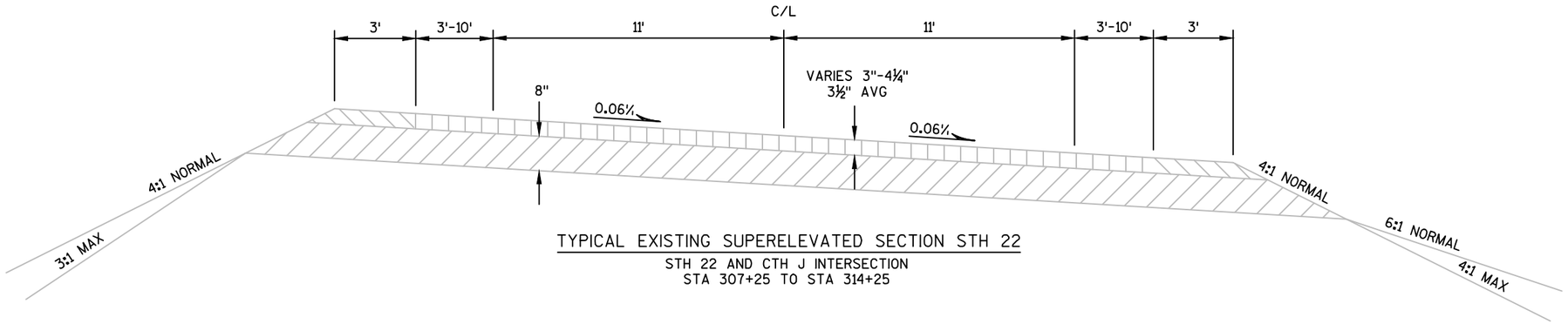
TYPICAL EXISTING SECTION STH 22

STA 62+94 TO STA 79+97



TYPICAL EXISTING SECTION STH 22

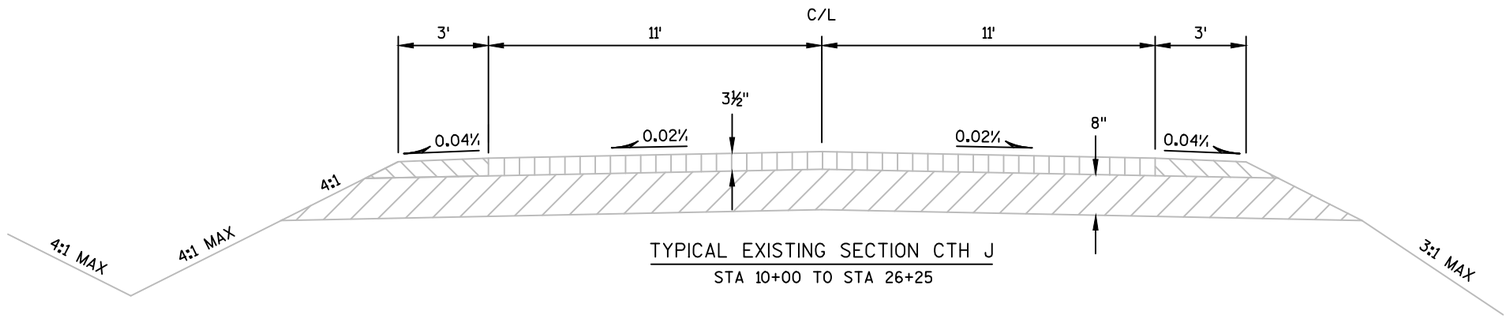
STA 80+57 TO STA 777+42



TYPICAL EXISTING SUPERELEVATED SECTION STH 22

STH 22 AND CTH J INTERSECTION

STA 307+25 TO STA 314+25



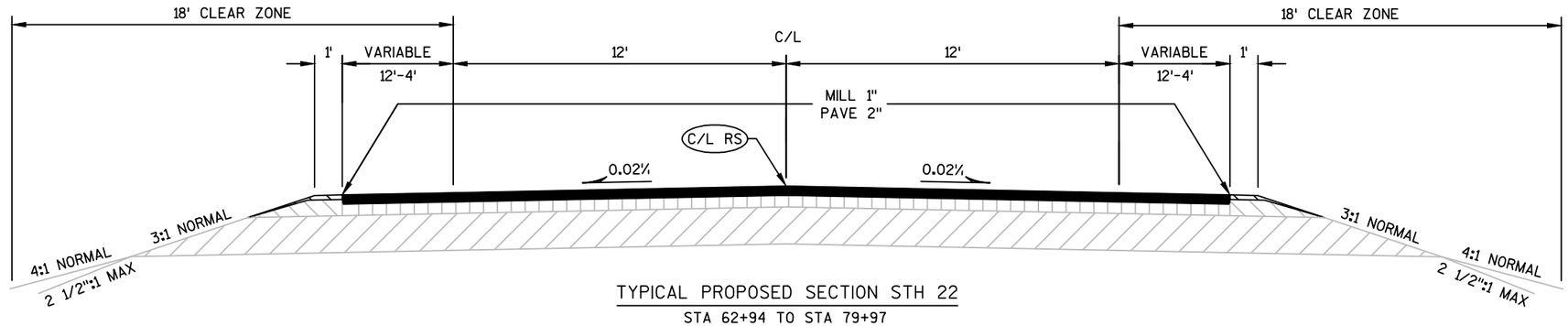
TYPICAL EXISTING SECTION CTH J

STA 10+00 TO STA 26+25

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	TYPICAL EXISTING SECTIONS	SHEET 4	E

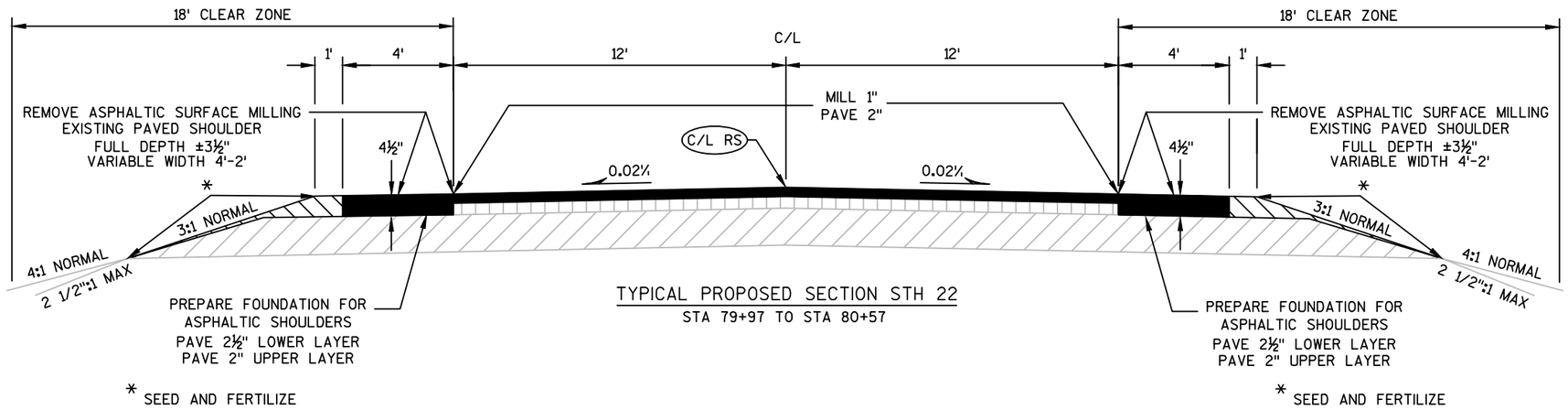
LEGEND

- HMA PAVEMENT 4 LT 58-28 S
- BASE AGGREGATE DENSE 1¼"
- BASE AGGREGATE DENSE ¾"
- C/L RS — ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- EXISTING RECYCLED ASPHALTIC PAVEMENT
- EXISTING BASE COURSE
- EXISTING BASE COURSE (SHOULDER)



TYPICAL PROPOSED SECTION STH 22

STA 62+94 TO STA 79+97



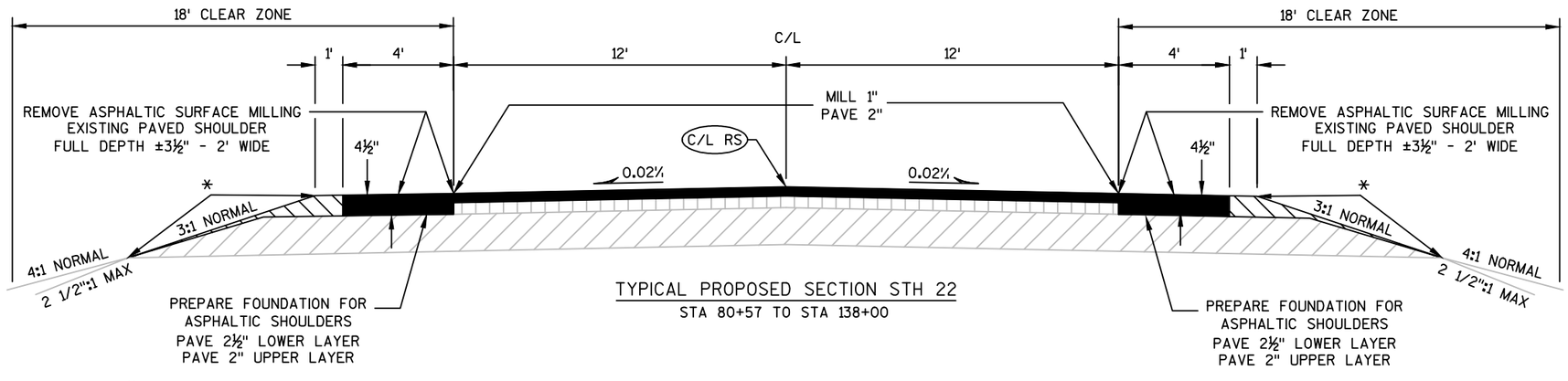
TYPICAL PROPOSED SECTION STH 22

STA 79+97 TO STA 80+57

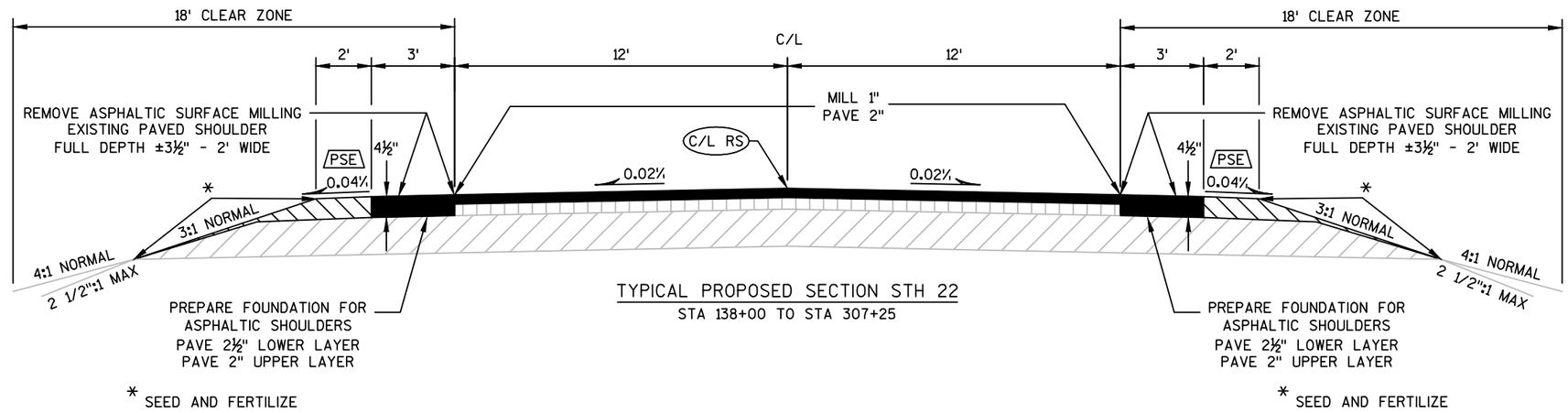
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	TYPICAL PROPOSED SECTIONS	SHEET 5	E

LEGEND

- HMA PAVEMENT 4 LT 58-28 S
- BASE AGGREGATE DENSE 1¼"
- BASE AGGREGATE DENSE ¾"
- C/L RS — ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- PSE — PAVEMENT SAFETY EDGE
- EXISTING RECYCLED ASPHALTIC PAVEMENT
- EXISTING BASE COURSE
- EXISTING BASE COURSE (SHOULDER)



TYPICAL PROPOSED SECTION STH 22
STA 80+57 TO STA 138+00



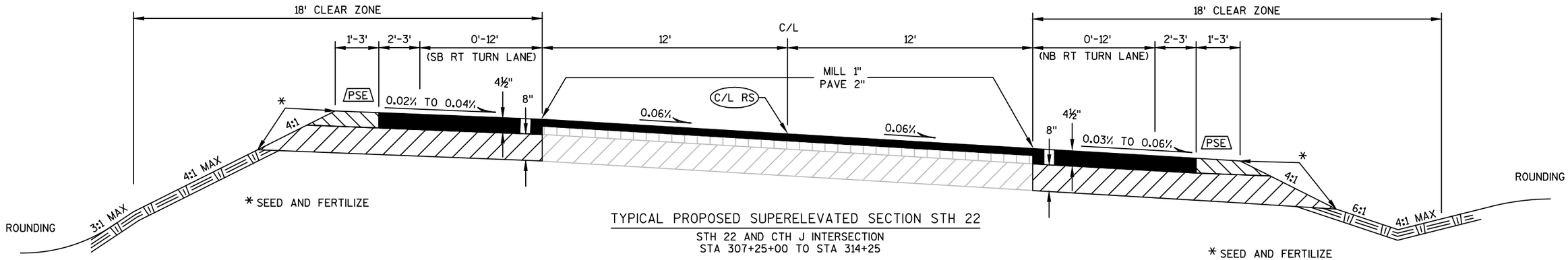
TYPICAL PROPOSED SECTION STH 22
STA 138+00 TO STA 307+25

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	TYPICAL PROPOSED SECTIONS	SHEET 6	E

2

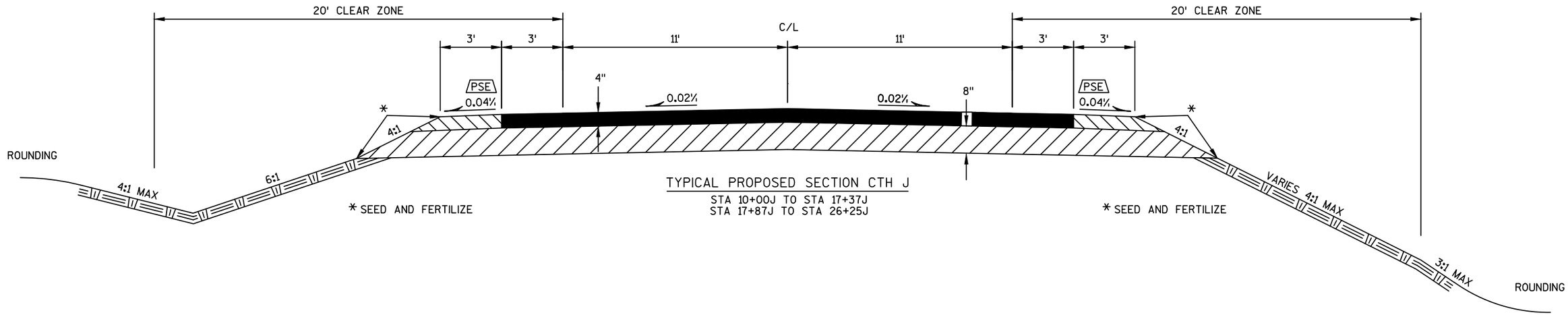
LEGEND

- HMA PAVEMENT 4 LT 58-28 S
- BASE AGGREGATE DENSE 1¼"
- BASE AGGREGATE DENSE ¾"
- C/L RS — ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- PSE — PAVEMENT SAFETY EDGE
- TOPSOIL, SEED, FERTILIZER, AND MULCH
- EXISTING RECYCLED ASPHALTIC PAVEMENT
- EXISTING BASE COURSE
- EXISTING BASE COURSE (SHOULDER)



TYPICAL PROPOSED SUPERELEVATED SECTION STH 22

STH 22 AND CTH J INTERSECTION
STA 307+25+00 TO STA 314+25



TYPICAL PROPOSED SECTION CTH J

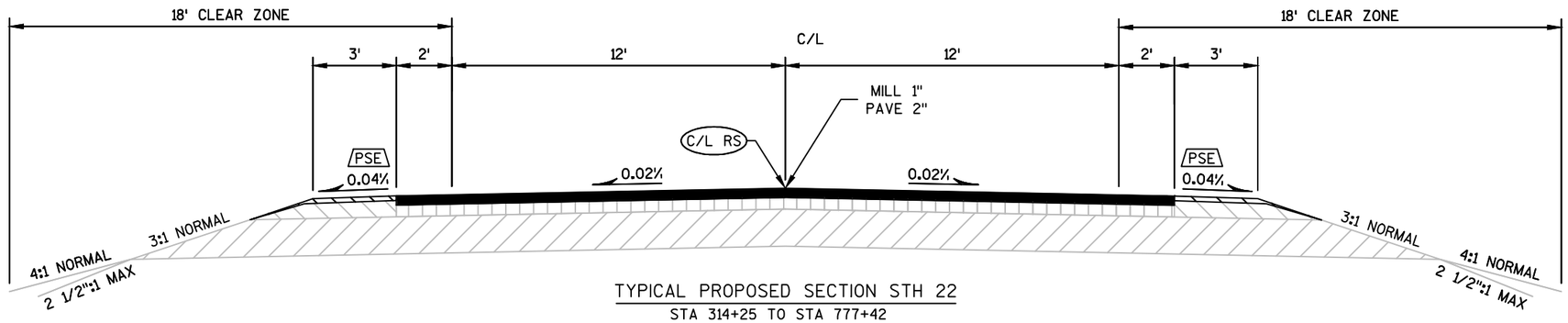
STA 10+00J TO STA 17+37J
STA 17+87J TO STA 26+25J

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	TYPICAL PROPOSED SECTIONS	SHEET 7	E

2

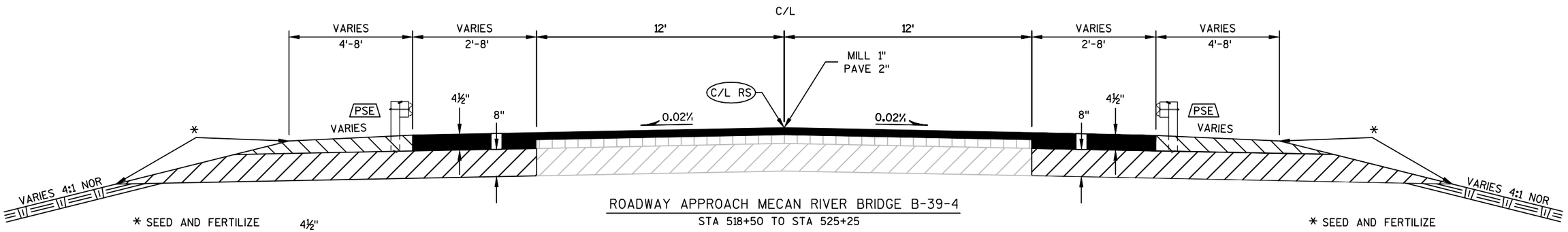
LEGEND

- HMA PAVEMENT 4 LT 58-28 S
- BASE AGGREGATE DENSE 1¼"
- BASE AGGREGATE DENSE ¾"
- C/L RS — ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- PSE — PAVEMENT SAFETY EDGE
- TOPSOIL, SEED, FERTILIZER, AND MULCH
- EXISTING RECYCLED ASPHALTIC PAVEMENT
- EXISTING BASE COURSE
- EXISTING BASE COURSE (SHOULDER)



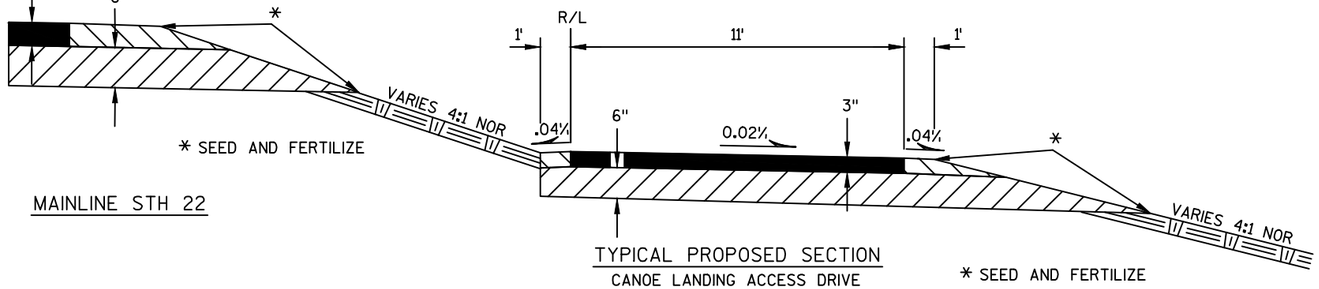
TYPICAL PROPOSED SECTION STH 22

STA 314+25 TO STA 777+42



ROADWAY APPROACH MECAN RIVER BRIDGE B-39-4

STA 518+50 TO STA 525+25



MAINLINE STH 22

TYPICAL PROPOSED SECTION

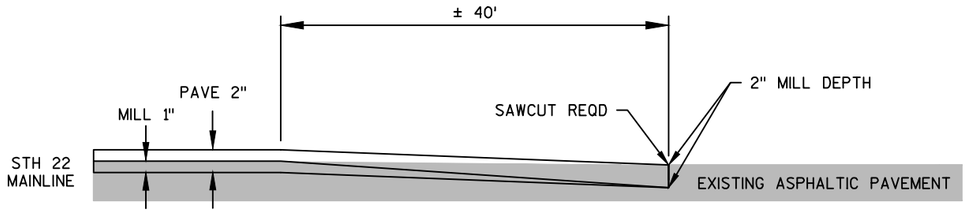
CANOE LANDING ACCESS DRIVE

STA 10BL+30 TO STA 11BL+96

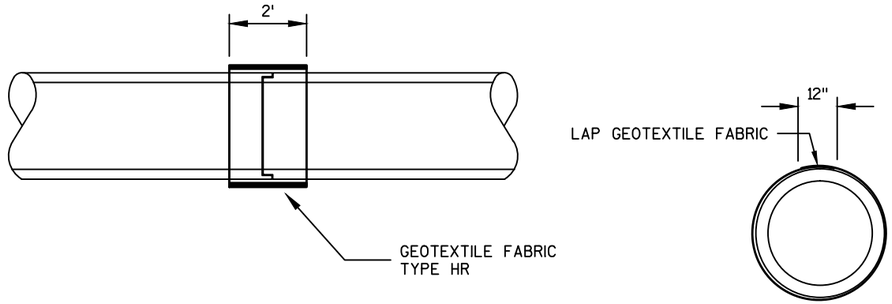
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	TYPICAL PROPOSED SECTIONS	SHEET 8	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\020301-TS.DWG PLOT DATE : 12/1/2016 8:36 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1 IN: 5 FT

WISDOT/CADDS SHEET 42

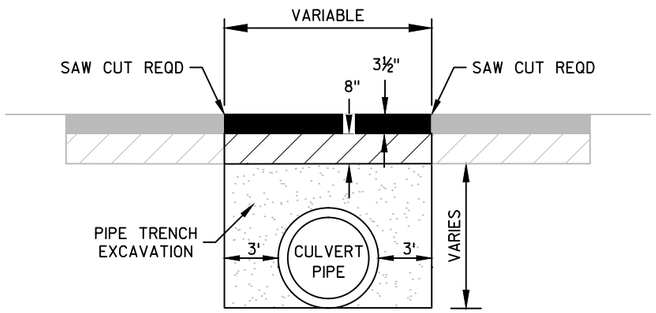


BUTT JOINT DETAIL



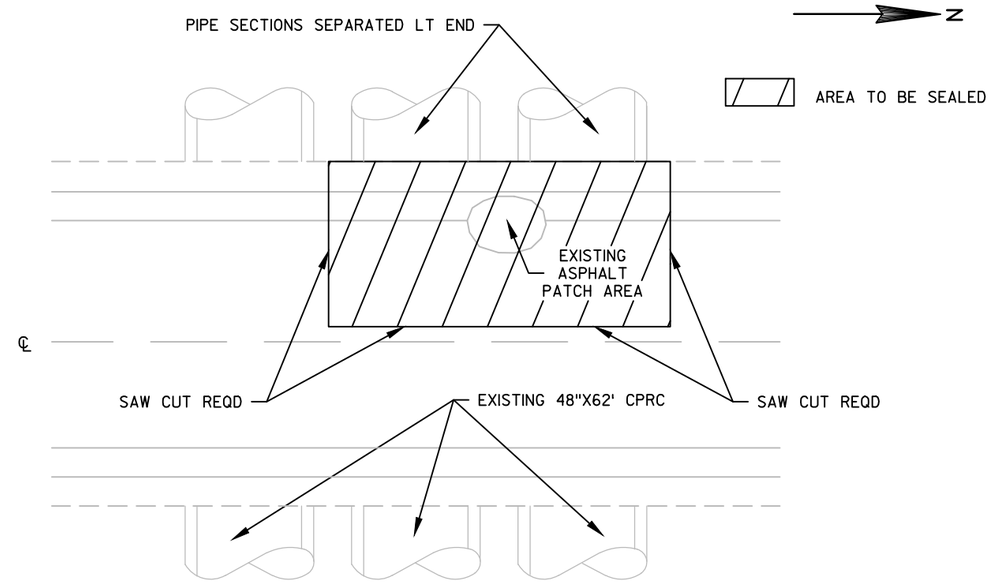
JOINT DETAIL CPRC NEW OR SALVAGED

ASPHALTIC SURFACE PATCHING
BASE AGGREGATE DENSE 1¼-INCH



CULVERT PIPE REPAIR WORK

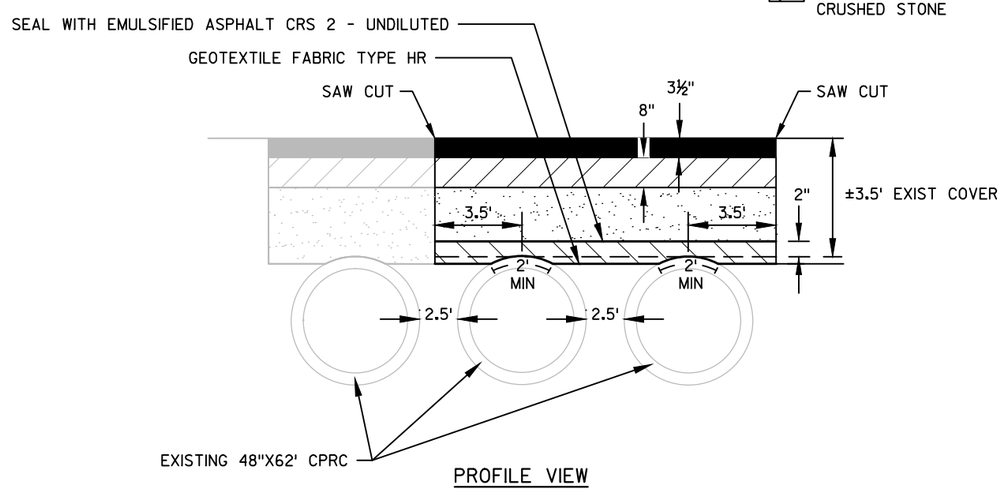
WORK TO BE DONE PRIOR TO MILLIING MAINLINE PAVEMENT



PLAN VIEW

LEGEND

- ASPHALTIC SURFACE PATCHING
- BASE AGGREGATE DENSE 1¼-INCH
- GRANULAR BACKFILL GRADE 2
- BASE AGGREGATE DENSE ¾-INCH CRUSHED STONE

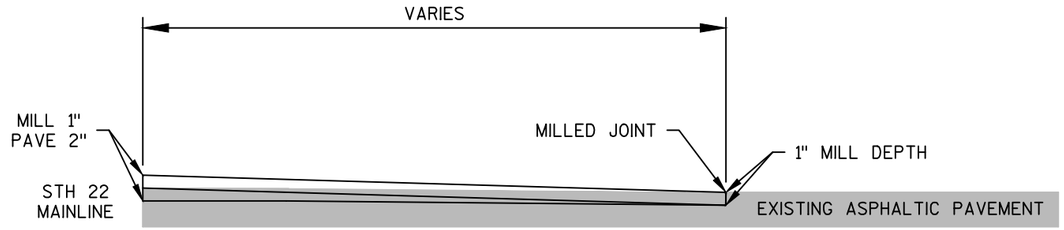


PROFILE VIEW

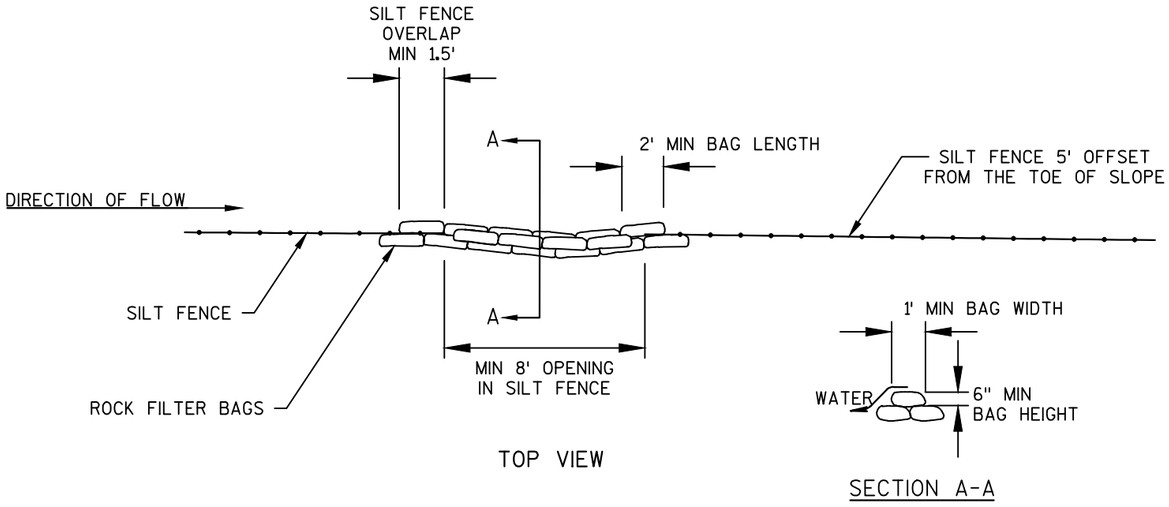
SEALING TOP OF PIPE AREA

STA 383+20

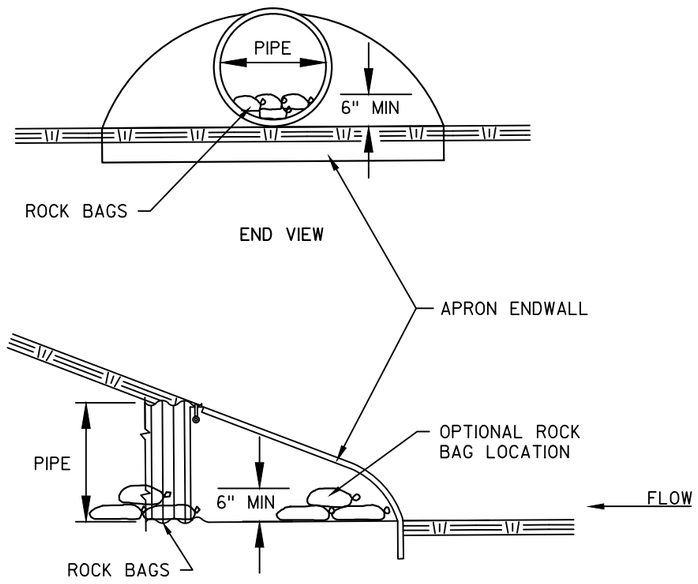
NOTE: SEALING TOP OF PIPE AREA TO BE DONE PRIOR TO MILLING 1" ASPHALTIC MAINLINE PAVEMENT



SIDEROAD AND DRIVEWAY DETAIL

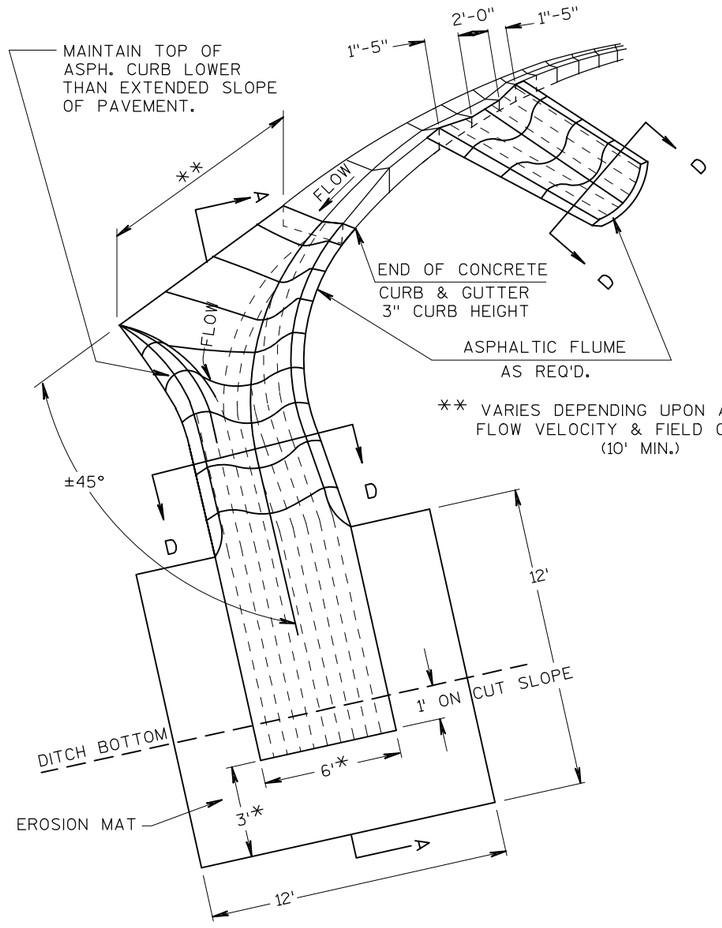


ROCK BAGS USED FOR SILT FENCE RELIEF

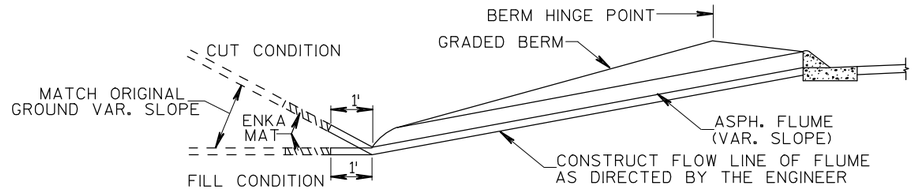


CULVERT PIPE CHECK

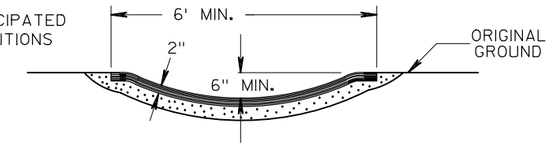
(INSTALL ON INLET END ONLY)



** VARIES DEPENDING UPON ANTICIPATED FLOW VELOCITY & FIELD CONDITIONS (10' MIN.)



SECTION A-A



SECTION D-D

ASPHALTIC FLUME DETAIL AT RURAL INTERSECTIONS

2

POINT	STATION	OFFSET	N	E
RP1	310+29.32	94.00 'RT	279462.1126	478060.0003
RP1	18+44.09J	85.00' RT	279462.1126	478060.0003
RP2	310+40.59	64.00' LT	279552.1913	477929.7214
RP2	16+88.57J	55.00' RT	279552.1913	477929.7214
RP3	311+69.59	94.00' LT	279682.6967	477980.9314
RP3	16+82.90J	85.00'LT	279682.6967	477980.9314
RP4	311+75.51	64.00' RT	279592.7766	478111.0363
RP4	18+38.20J	55.00' LT	279592.7766	478111.0363

✳ ASPHALTIC FLUME REQD

D CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

CTH J
NEW R/W
EXISTING R/W
16+00J
17+00J
18+00J
19+00J
20+00J
40' TAPER
46' TAPER
42' TAPER
50' TAPER
100' TAPER
150' TAPER
100' TURN LANE
40R
70R
70'R1
RP1
RP2
RP3
RP4
861.99
862.41
862.34
861.62
861.55
859.10
858.86
858.82
858.58
858.64
STA 311+04.26=
STA 17+61.56J
309+00
310+00
311+00
312+00
313+00
314+00
315+00
308+00 STH 22
STH 22
5' TLE
OH

PROJECT NO:6150-01-76	HWY: STH 22	COUNTY:MARQUETTE	STH 22 & CTH J INTERSECTION DETAIL	SHEET 12	E

2

2

N

EXISTING BRIDGE STRUCTURE B-39-4

SLOPE INTERCEPT

EXISTING ASPHALT PAVEMENT

522+00 | STH 22 | +80 | 523+00 | +78 | 524+00 | +29 | +75 | 525+00

47' | 27' | 26' | 47'

35'

7'R

9'R

11BL

+50

1'

11BL+96

10+00BL
X=476455.7308
Y=299535.9428

SLOPE INTERCEPT

CANOE LANDING ACCESS DRIVE

11'

30'

BASE AGGREGATE DENSE

11'

1'

WETLAND BOUNDARY

EXISTING R/W

PERMITTED WETLAND IMPACT AREA
29.52 SF = 0.001 ACRE
SHRUB SCRUB

WETLAND BOUNDARY

SLOPE INTERCEPT

PERMITTED WETLAND IMPACT AREA
329.57 SF = 0.008 ACRE
SHRUB SCRUB

EXISTING R/W

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CANOE LANDING ACCESS DRIVE/PERMITTED WETLAND IMPACT AREAS	SHEET 13	E

2

2

LEGEND

A MGS THRIE BEAM TRANSITION
B MGS GUARDRAIL 3
C MGS GUARDRAIL TERMINAL EAT

N

EXISTING R/W

MECAN RIVER

135' TAPER - AGGREGATE SHOULDER

53'
C

50'
B

40'
A

SLOPE INTERCEPT

90' TAPER - EDGE OF ASPHALT

EXISTING BRIDGE STRUCTURE B-39-4

6'

15:1 TAPER

6'

4'

8'

2'

3'

12'

14'

20'

18'

14'

22'

14'

517+00

518+00

519+00

520+00

521+00

522+00

STH 22

523+00

12'

2'

3'

6'

14'

20'

6'

4'

18'

14'

22'

14'

8'

15:1 TAPER

STA 521+57

STA 522+30

SIGN

SLOPE INTERCEPT

90' TAPER - EDGE OF ASPHALT

135' TAPER - AGGREGATE SHOULDER

C
53'

B
100'

A
40'

EXISTING R/W

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	MECAN RIVER BRIDGE GUARDRAIL REPLACEMENT DETAIL	SHEET 14	E

2

N

LEGEND

A MGS THRIE BEAM TRANSITION
B MGS GUARDRAIL 3
C MGS GUARDRAIL TERMINAL EAT

EXISTING R/W

MECAN RIVER

EXISTING BRIDGE STRUCTURE B-39-4

40' A | 100' B | 53' C | 135' TAPER - AGGREGATE SHOULDER

SLOPE INTERCEPT

90' TAPER - EDGE OF ASPHALT

15:1 TAPER

521+00 | STH 22 | 522+00 | 523+00 | 524+00 | 525+00 | STH 22 | 526+00 | 527+00

14' | 22' | 14' | 18' | 20' | 14' | 12'

8' | 4' | 6' | 2' | 3'

STA 521+57

STA 522+30

SIGN

90' TAPER - EDGE OF ASPHALT

SLOPE INTERCEPT

A 40' | B 50' | C 53' | 135' TAPER - AGGREGATE SHOULDER

EXISTING R/W

PROJECT NO: 6150-01-76	HWY: 22	COUNTY: MARQUETTE	MECAN RIVER BRIDGE GUARDRAIL REPLACEMENT DETAIL	SHEET 15	E

2

TOPSOIL MINIMUM DEPTH 4-INCH,
FERTILIZER TYPE B, SEEDING MIXTURE NO. 20, MULCH

EROSION MAT CLASS 1 TYPE A

SILT FENCE

N

EXISTING R/W

NEW R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

NEW R/W

NEW R/W

STH 22

STH 22

CTH J

CTH J

5' TLE

BEGIN CONSTRUCTION
STA 10'J'+00

END CONSTRUCTION
STA 26'J'+25

307+00 308+00 309+00 310+00 311+00 312+00 313+00 314+00 315+00 316+00 317+00 318+00 319+00

11+00J 12+00J 13+00J 14+00J 15+00J 16+00J 17+00J 18+00J 19+00J 20+00J 21+00J 22+00J 23+00J 24+00J 25+00J 26+00J

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	EROSION CONTROL PLAN	SHEET 16	E

TOPSOIL MINIMUM DEPTH 4-INCH,
FERTILIZER TYPE B, SEEDING MIXTURE NO. 20, E-MAT CLASS II TYPE C

SILT FENCE

SILT FENCE RELIEF

N

EXISTING R/W

SLOPE INTERCEPT

MECAN RIVER

EXISTING BRIDGE STRUCTURE B-39-4

517+00 518+00 519+00 520+00 521+00 522+00 STH 22 523+00

SLOPE INTERCEPT

EXISTING R/W

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	EROSION CONTROL PLAN	SHEET 17	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\022002-EC.DWG PLOT DATE : 11/29/2016 12:37 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

TOPSOIL MINIMUM DEPTH 4-INCH,
FERTILIZER TYPE B, SEEDING MIXTURE NO. 20, E-MAT CLASS II TYPE C

SILT FENCE

SILT FENCE RELIEF

N

EXISTING R/W

MECAN RIVER

SLOPE INTERCEPT

EXISTING R/W

521+00

STH 22

522+00

523+00

524+00

525+00

STH 22

526+00

527+00

EXISTING BRIDGE STRUCTURE B-39-4

10BL+00

+50

11

CANOE ACCESS DRIVE

+50

11BL+96

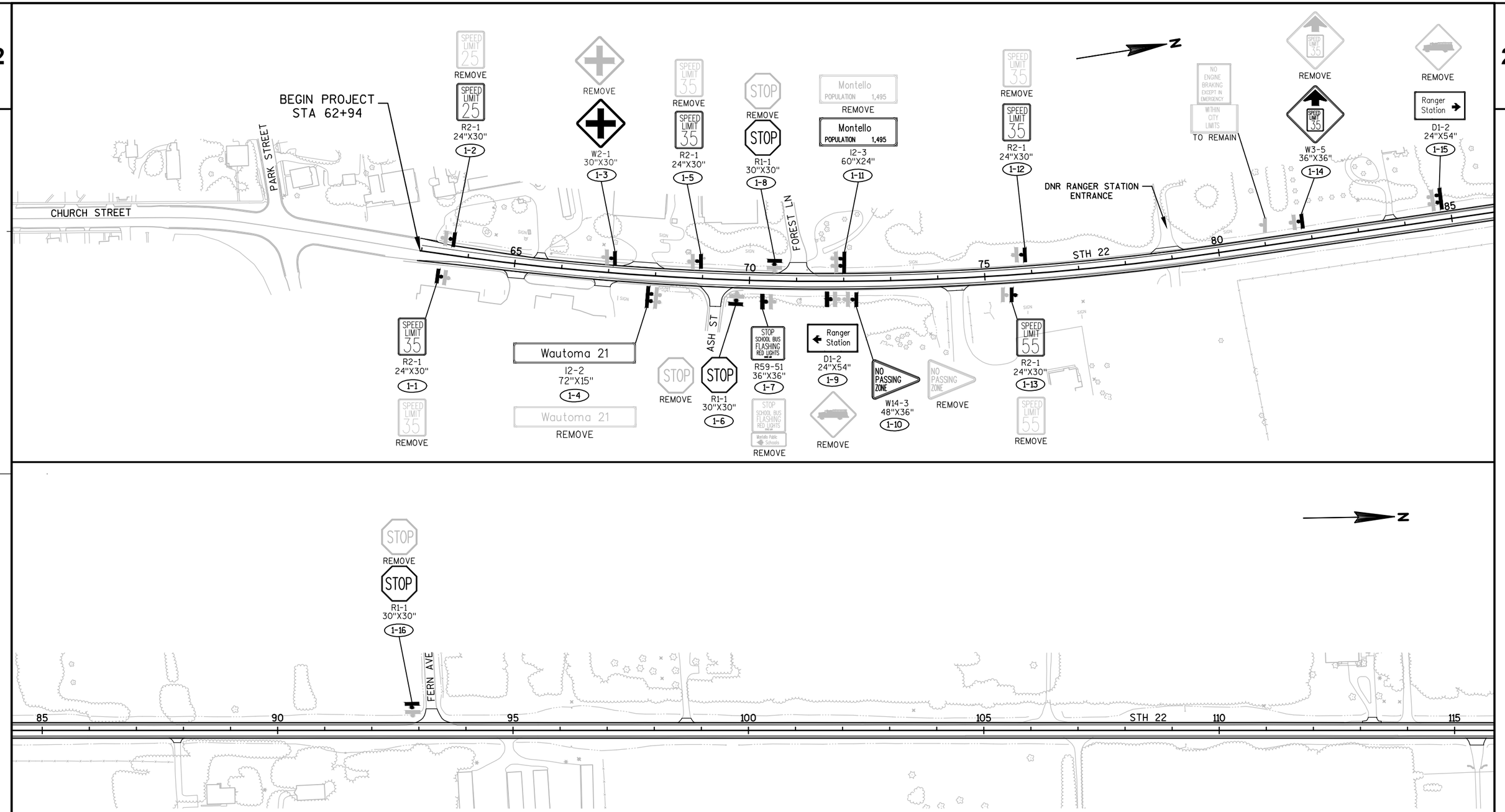
SIGN

EXISTING R/W

SLOPE INTERCEPT

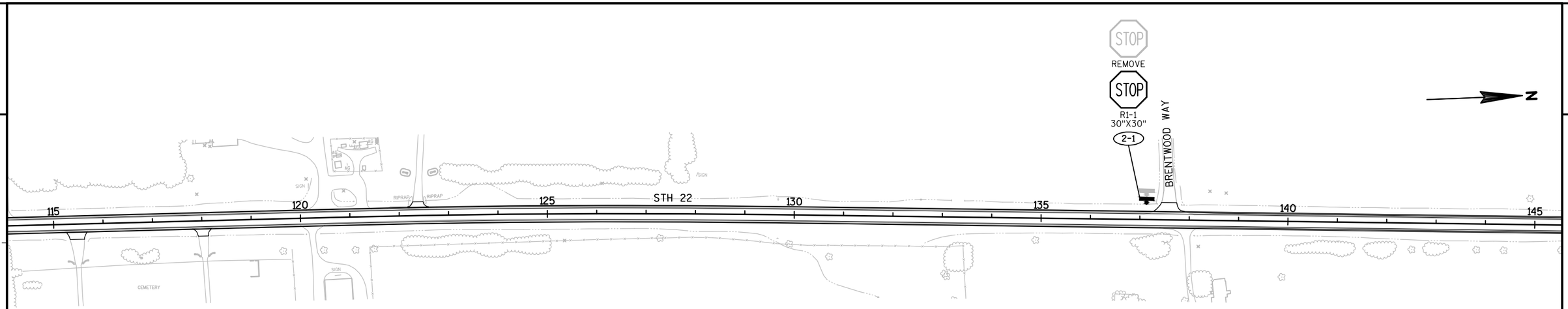
EXISTING R/W

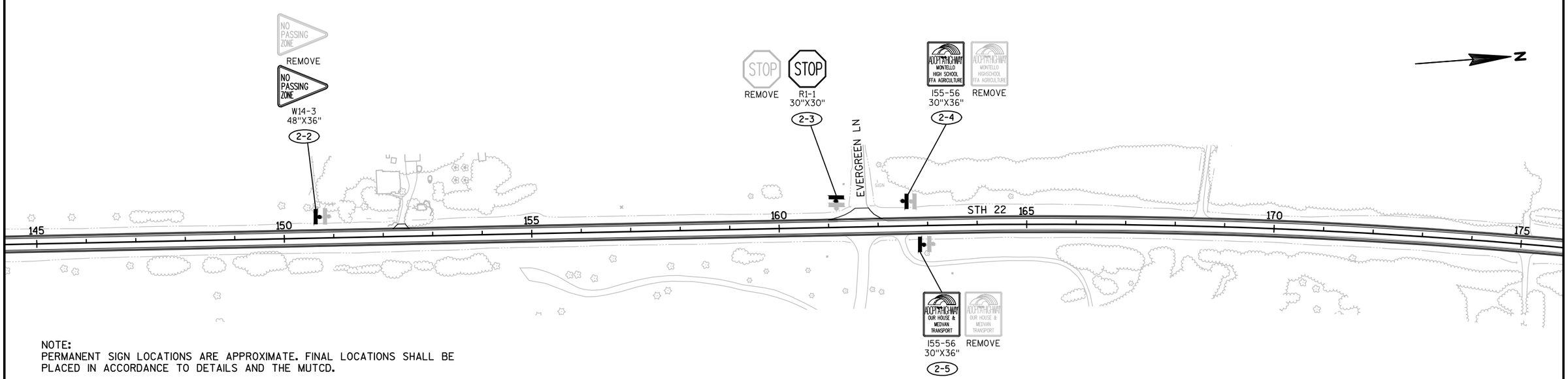
PROJECT NO: 6150-01-76	HWY: 22	COUNTY: MARQUETTE	EROSION CONTROL PLAN	SHEET 18	E



NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

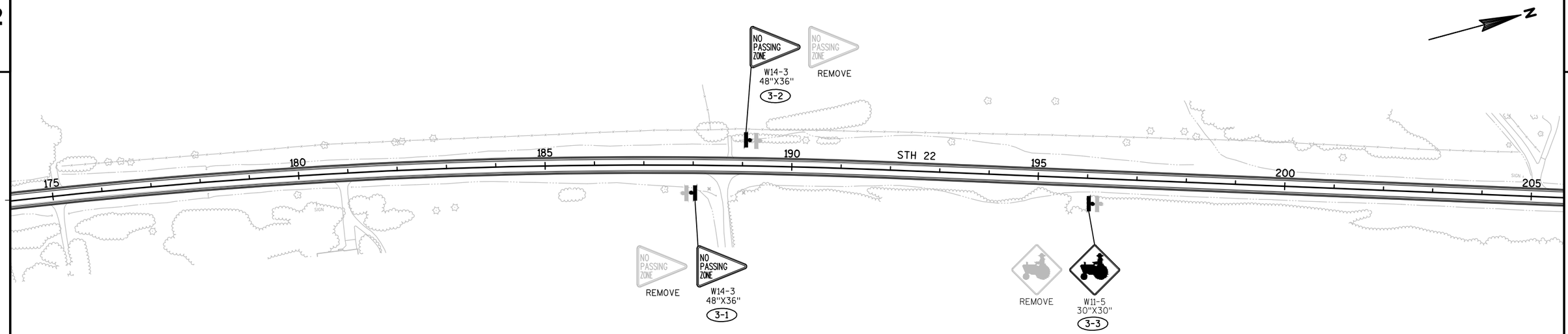
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 19	E





NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 20	E



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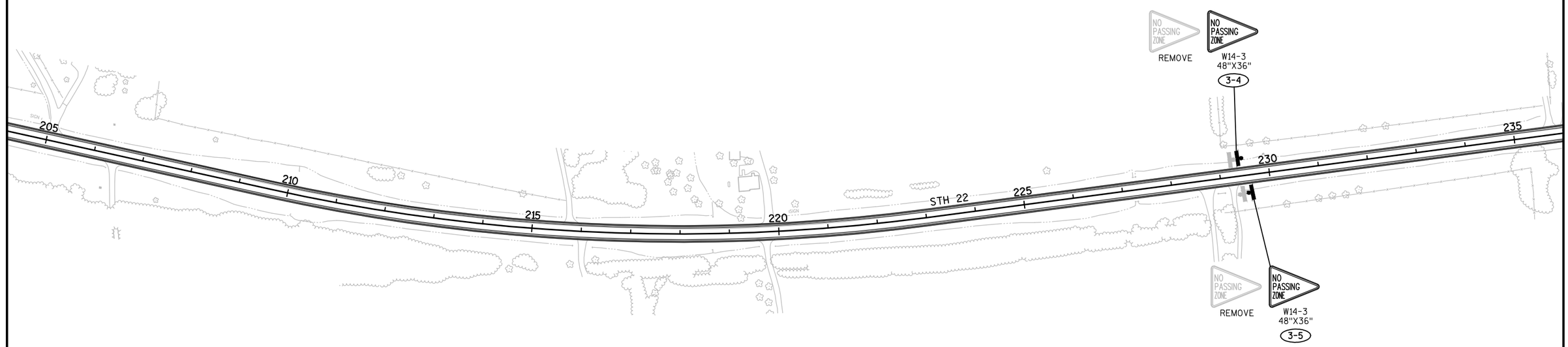
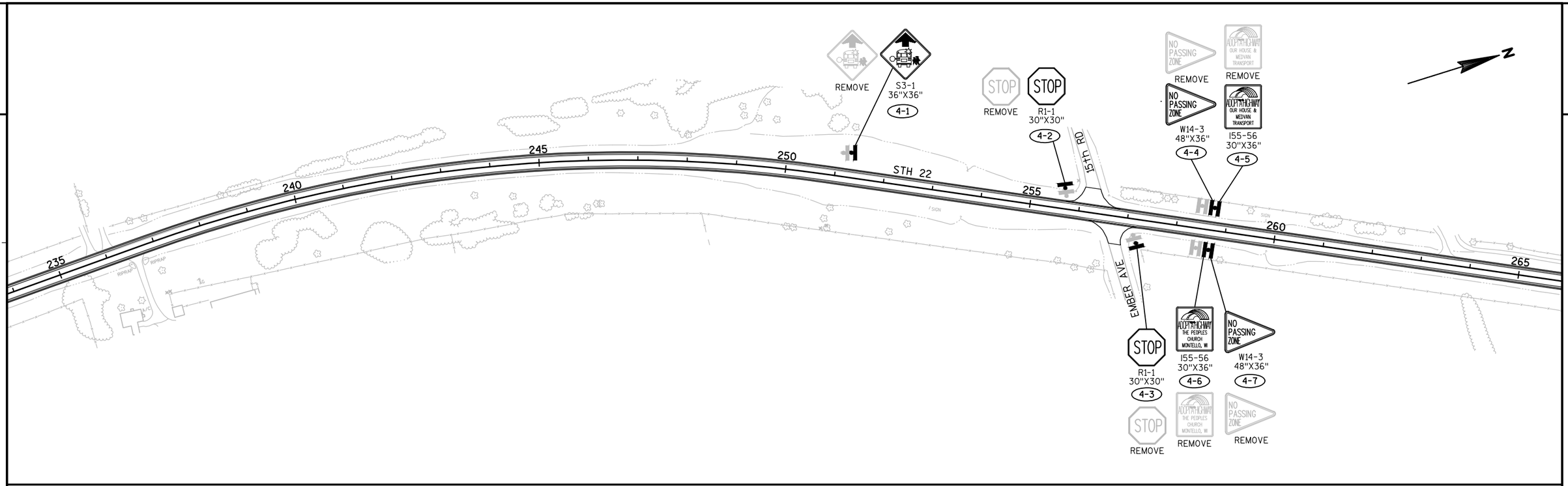
NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

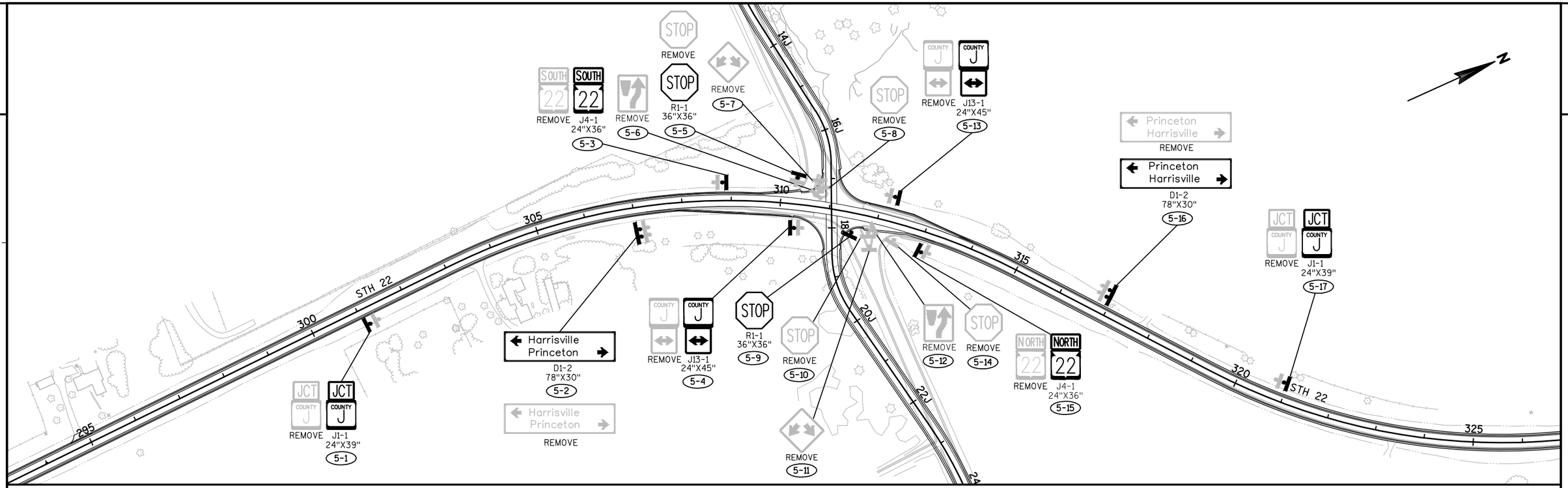


PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 21	E

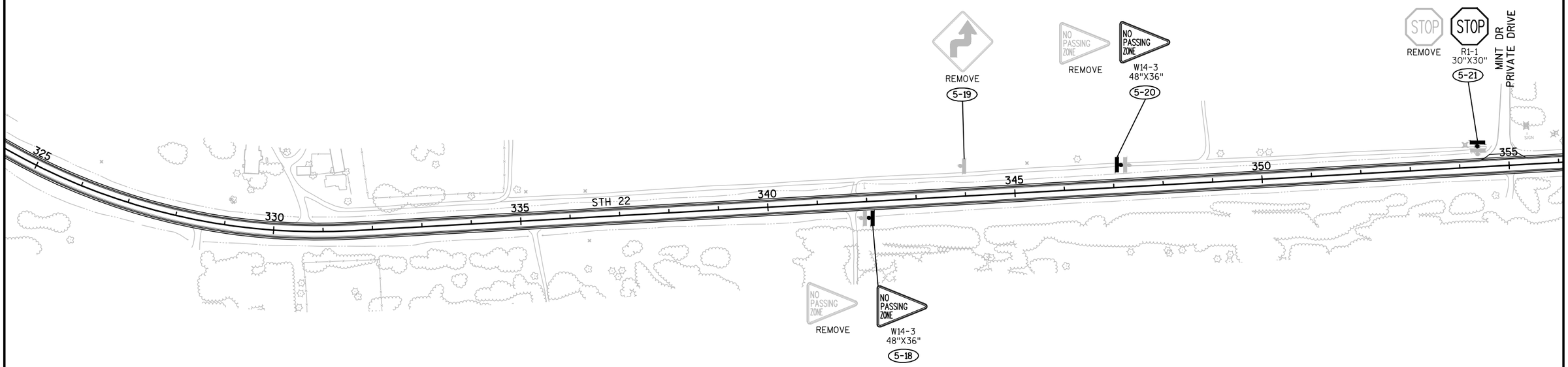


NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

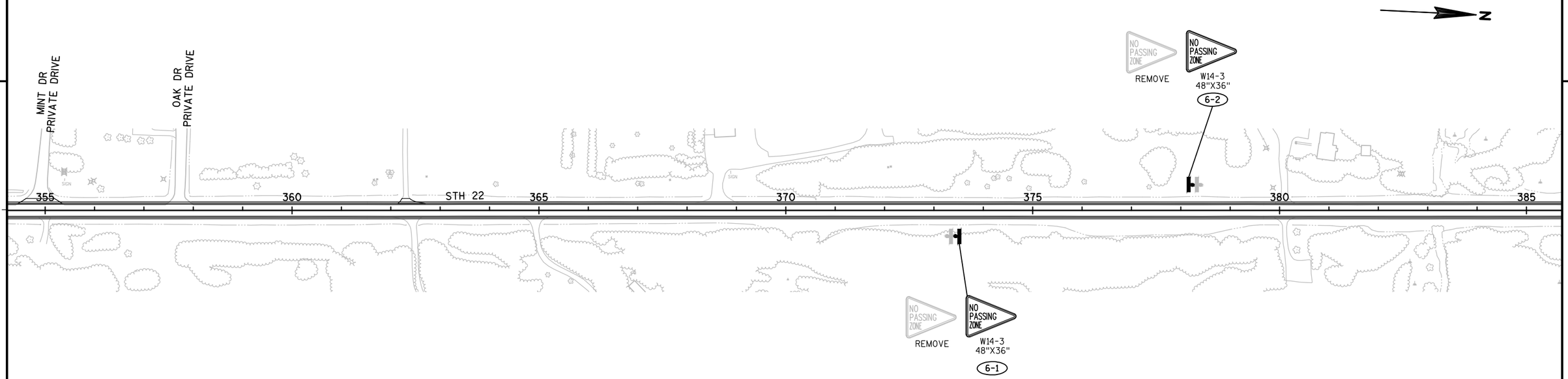
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 22	E



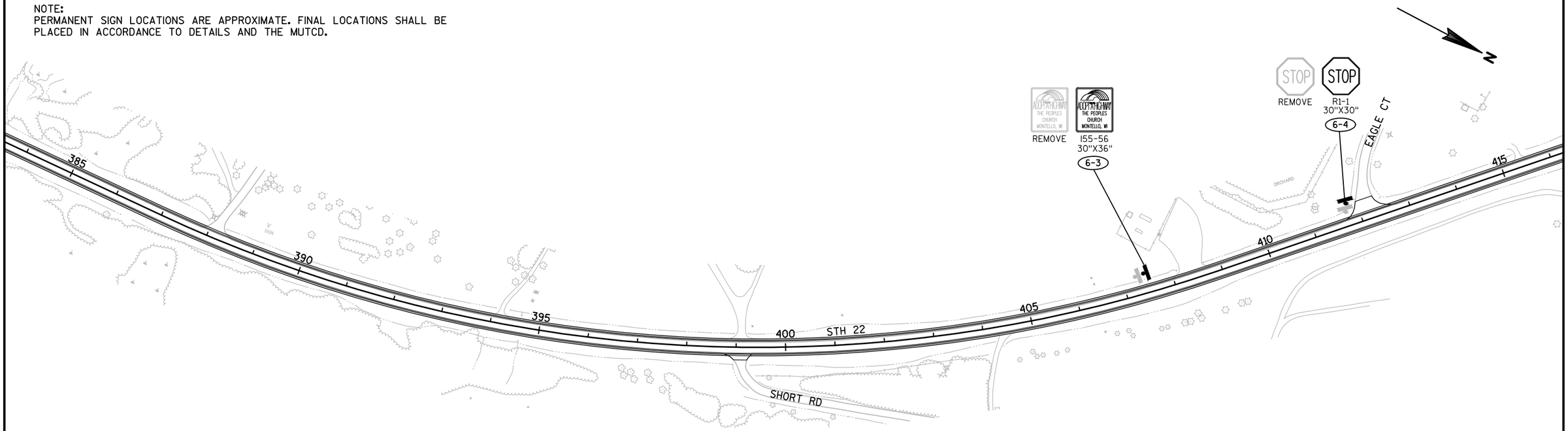
NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



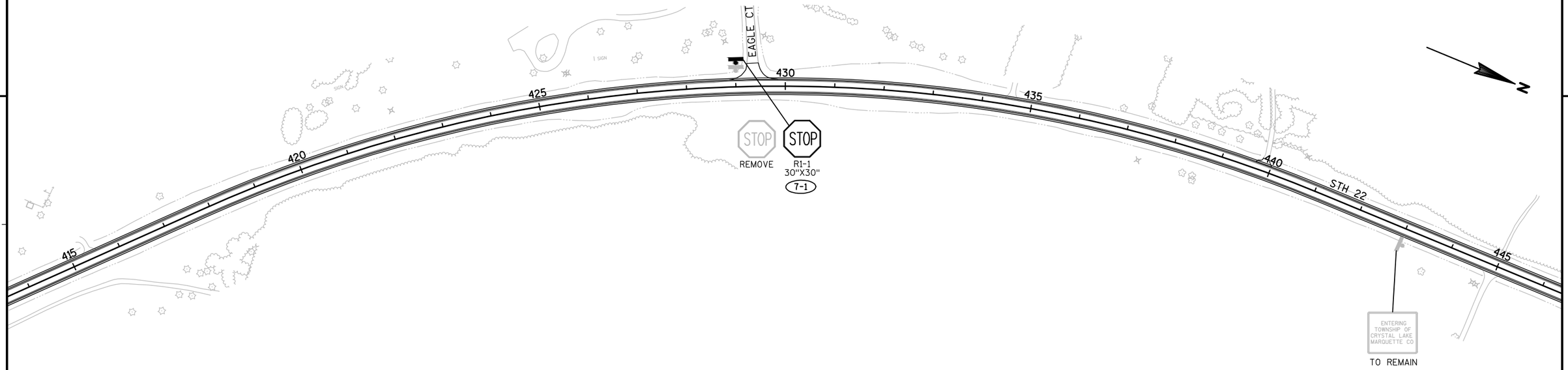
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 23	E

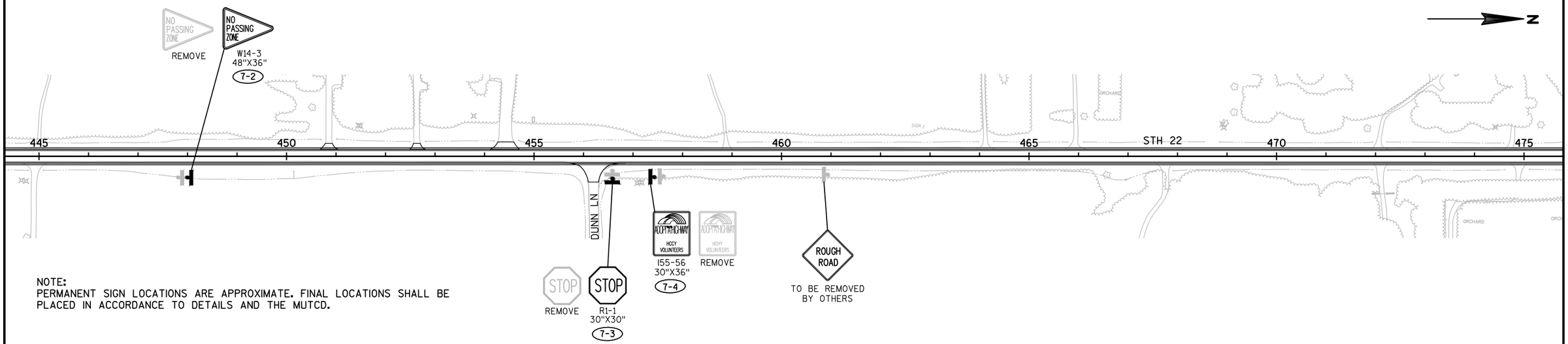


NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 24	E

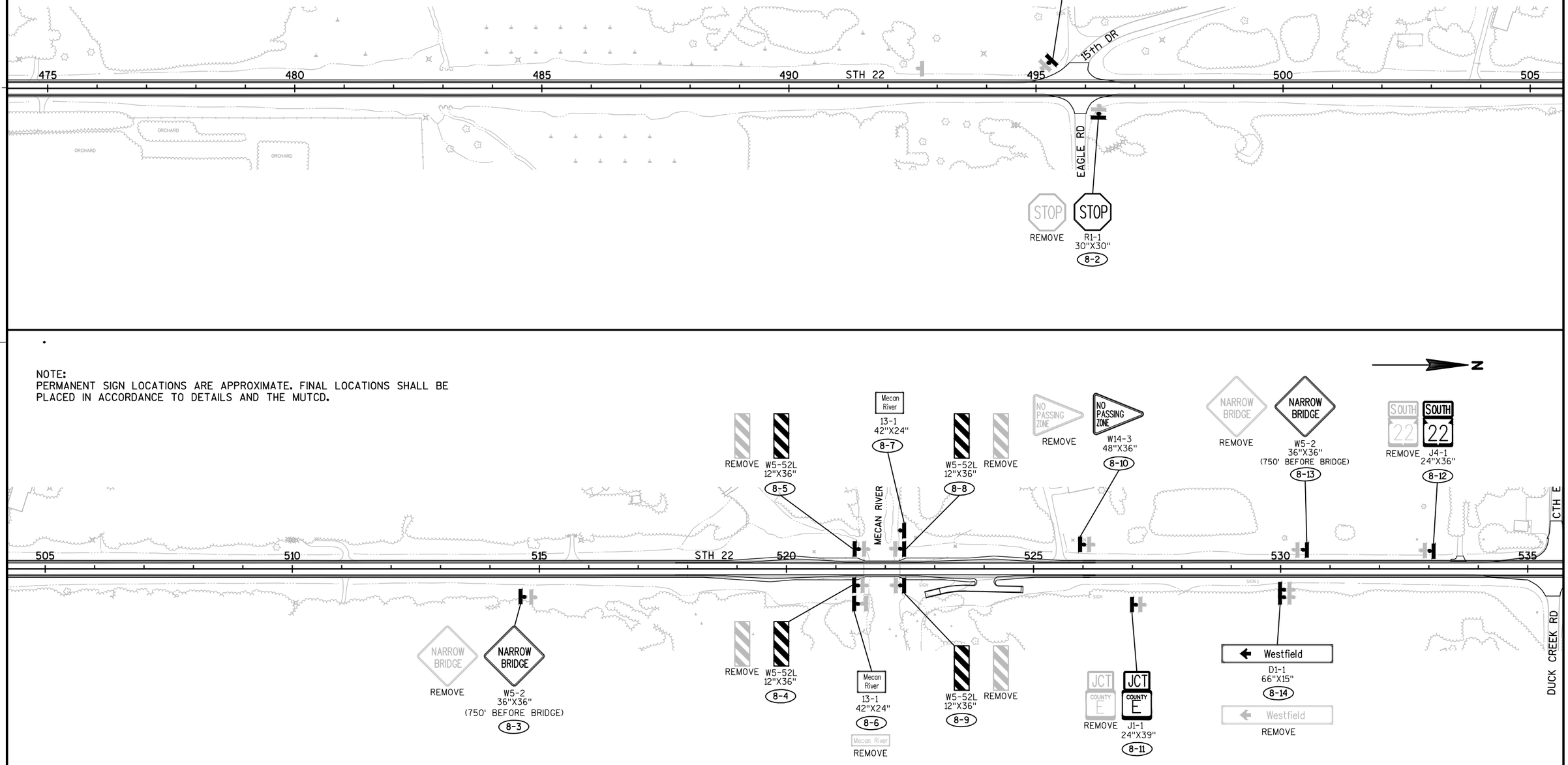




NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

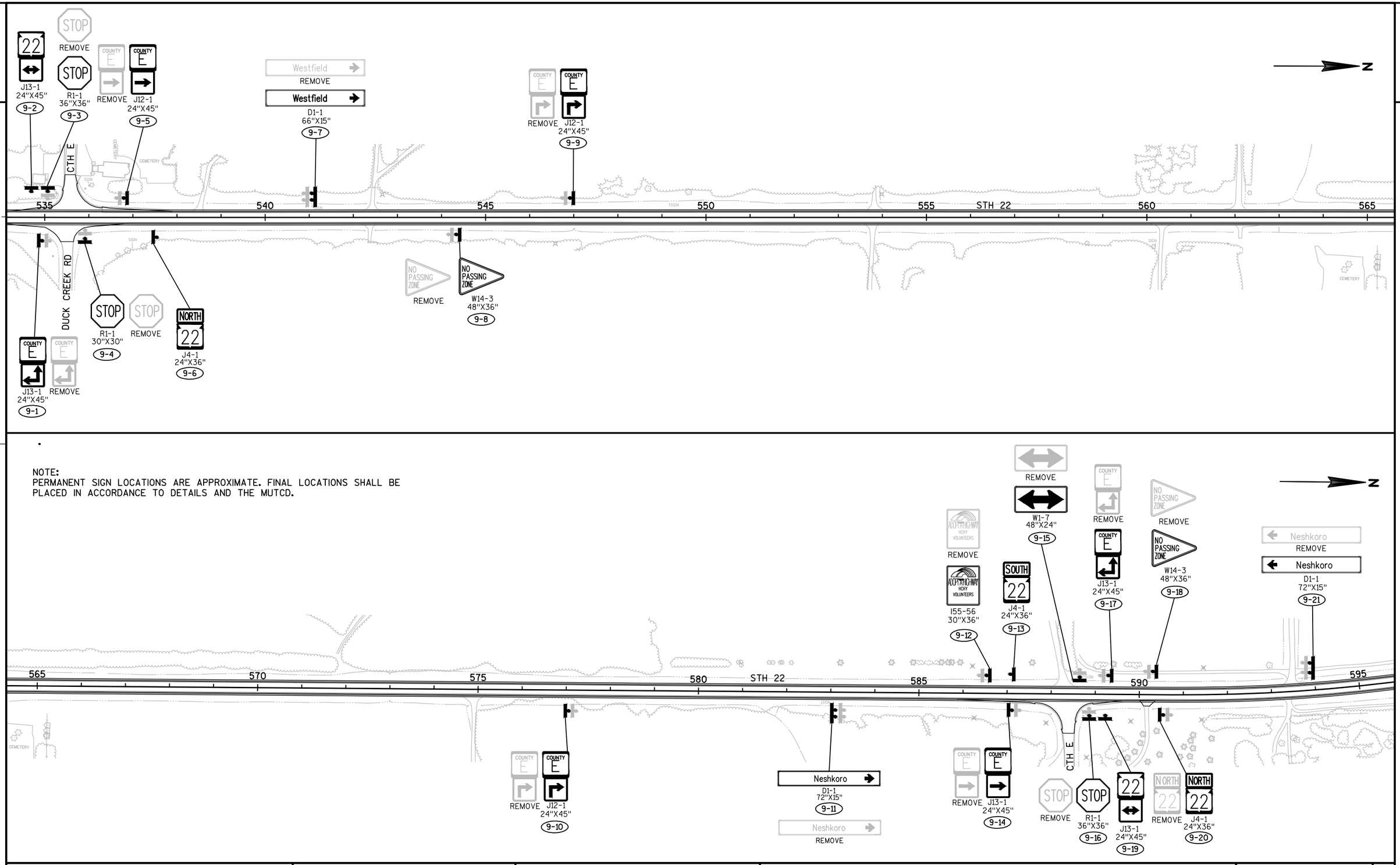
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 25	E

2

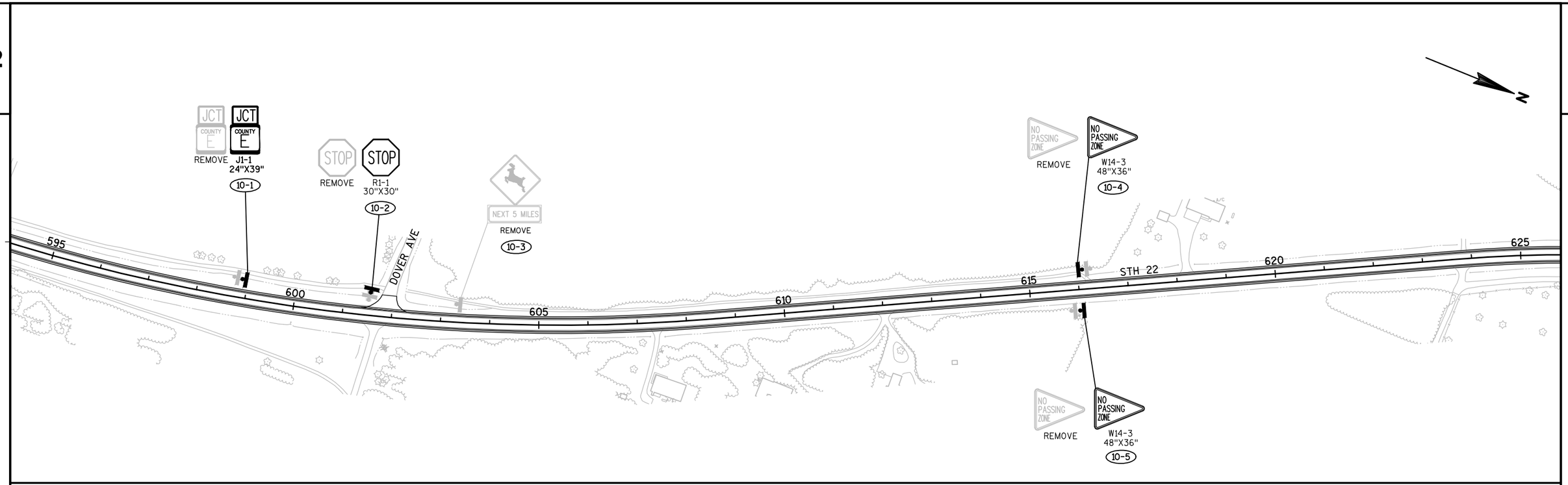


NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

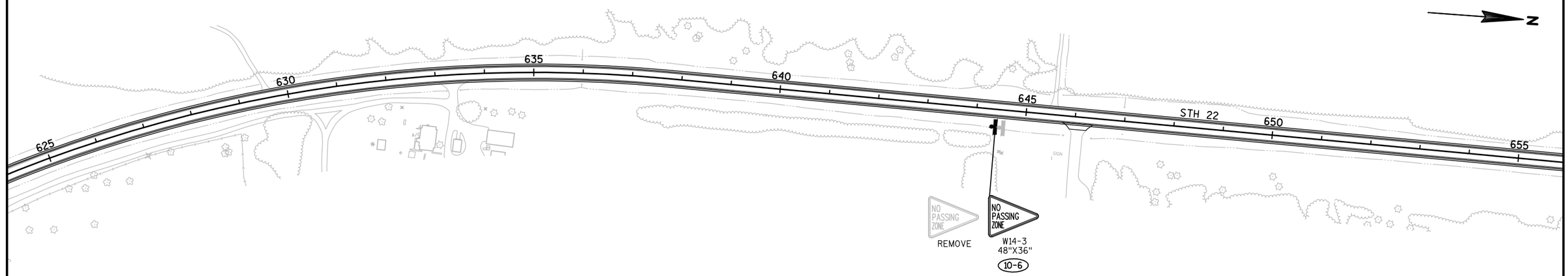
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 26	E



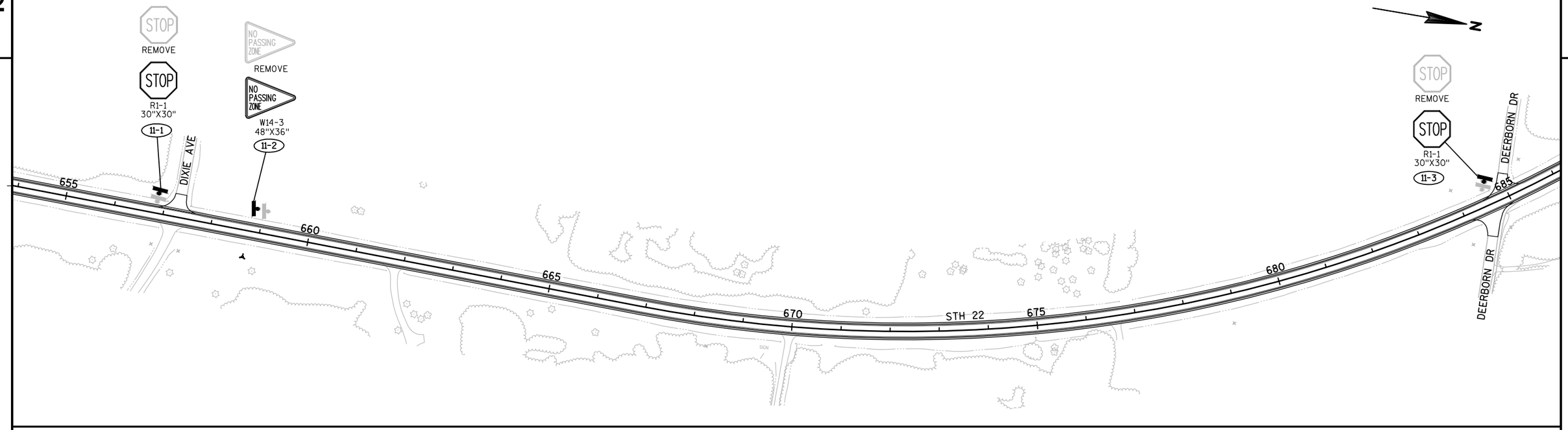
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 27	E



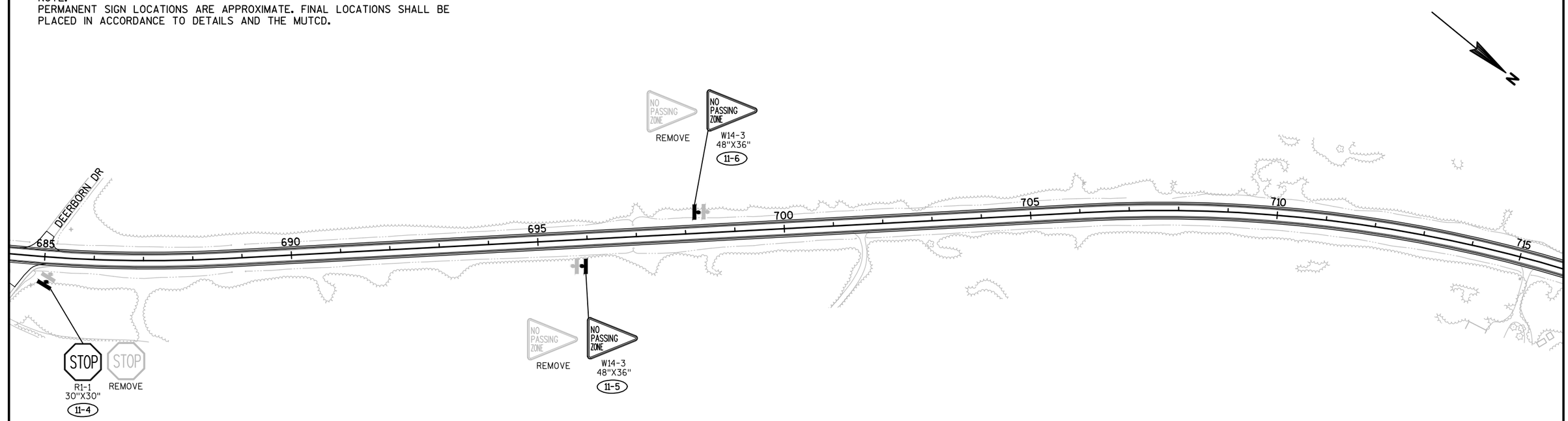
NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 28	E

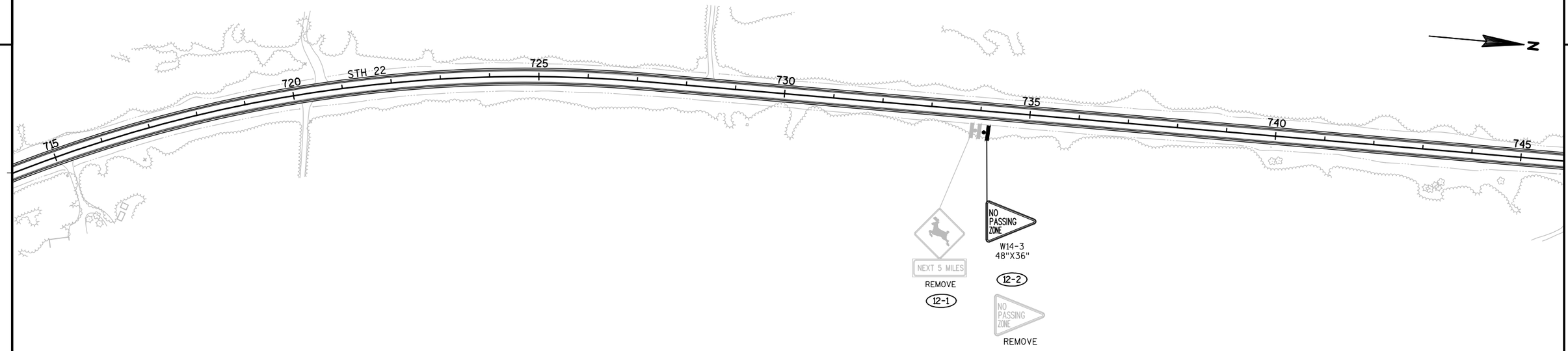


NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

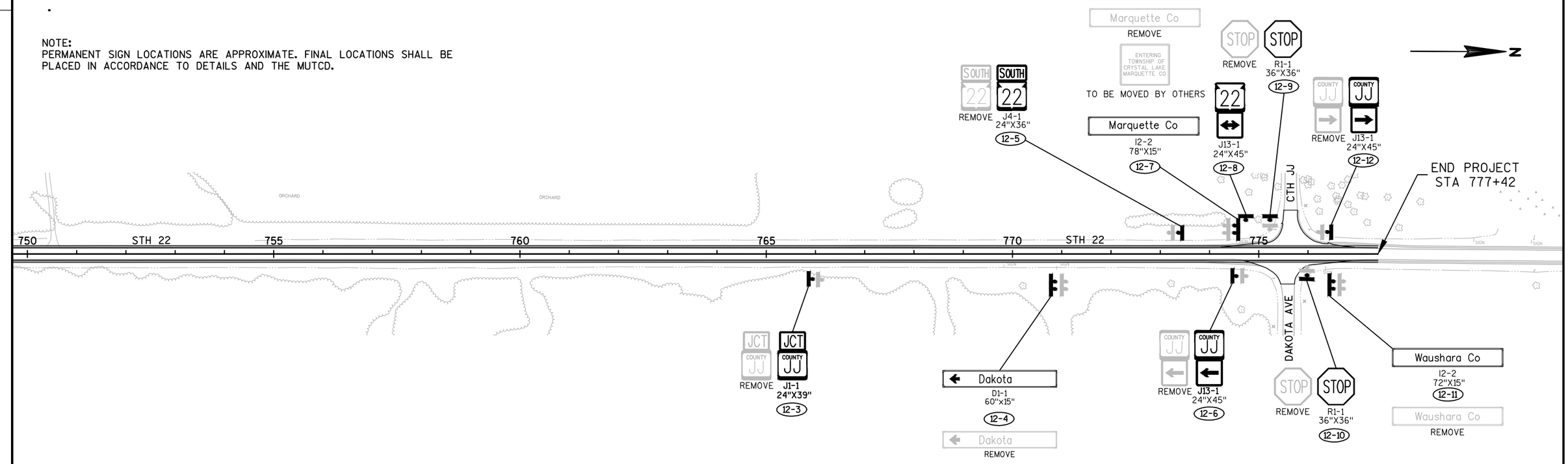


PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 29	E

2

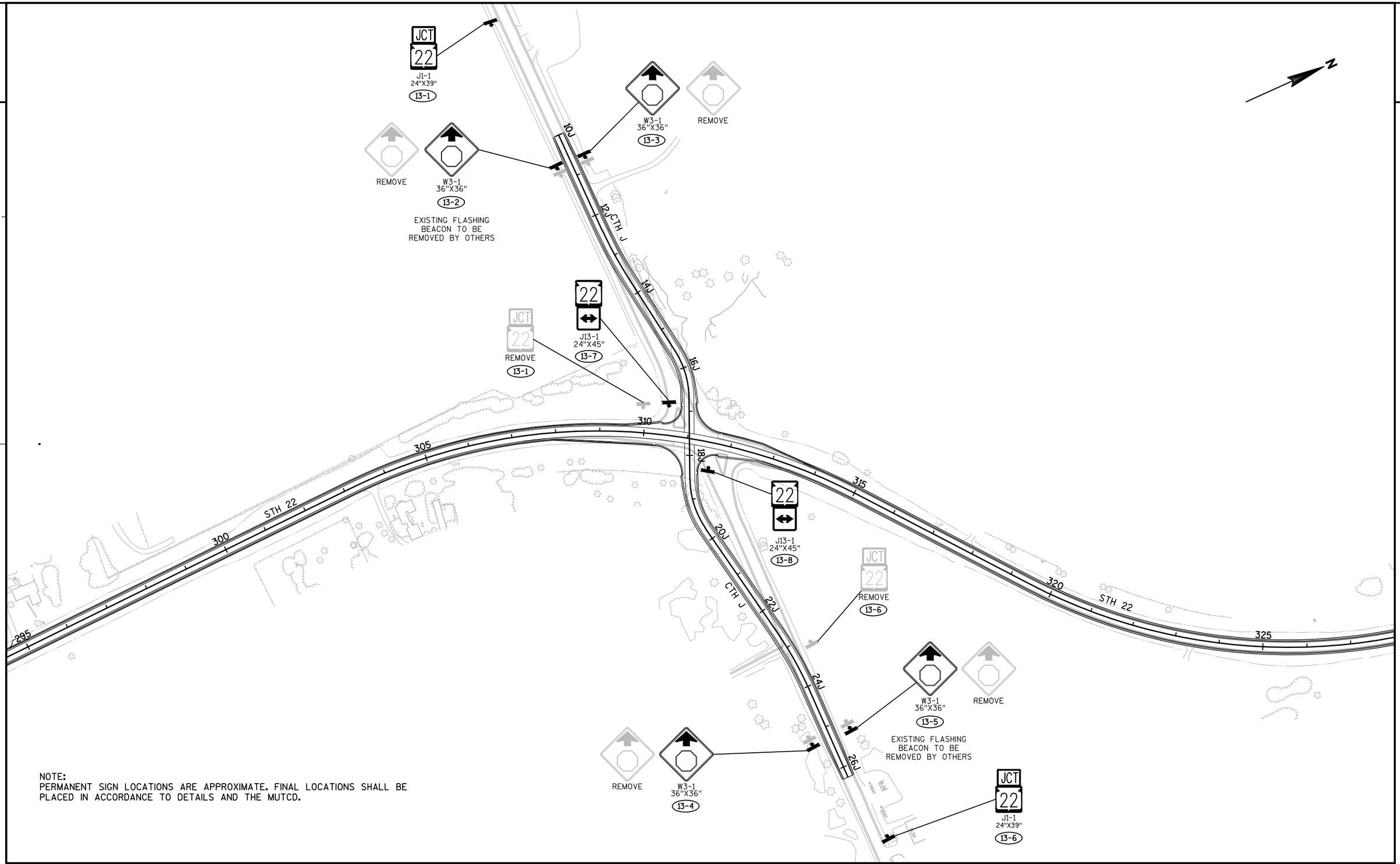


NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.



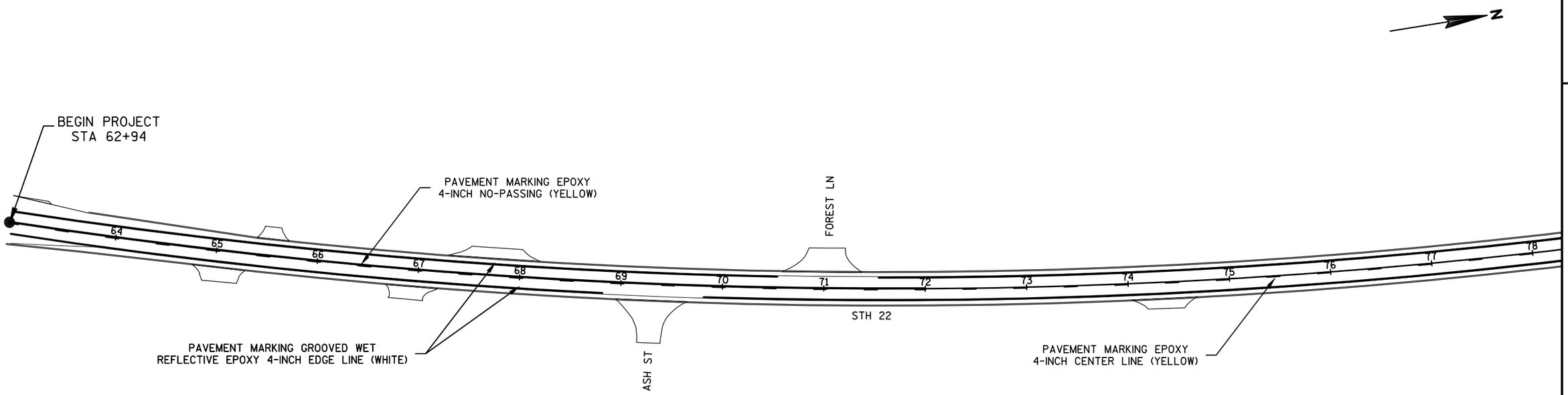
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET 30	E

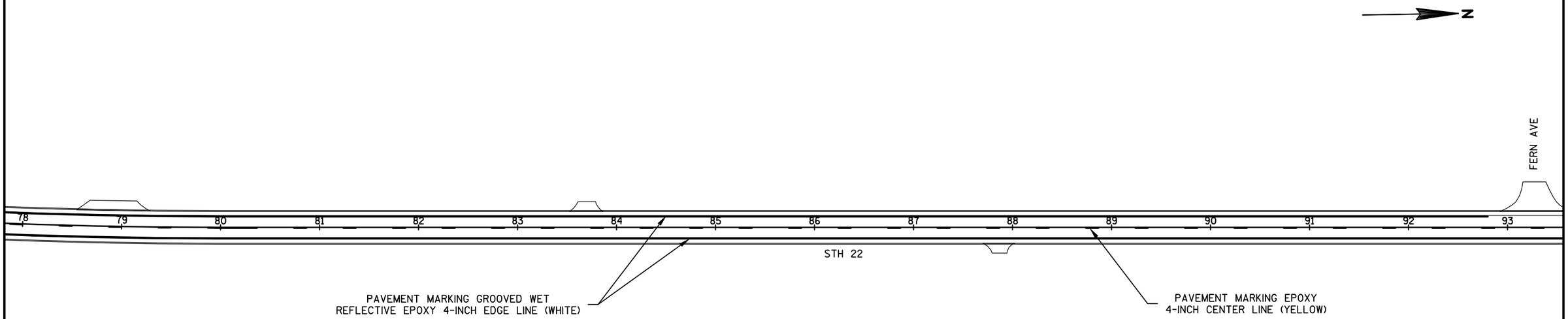
2



NOTE:
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD.

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING ON CTH J	SHEET 31	E





NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 32	E

2

2

N

FERN AVE

93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108

STH 22

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

N

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123

STH 22

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 33	E

2

N

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

BRENTWOOD WAY

123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138

STH 22

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

N

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153

STH 22

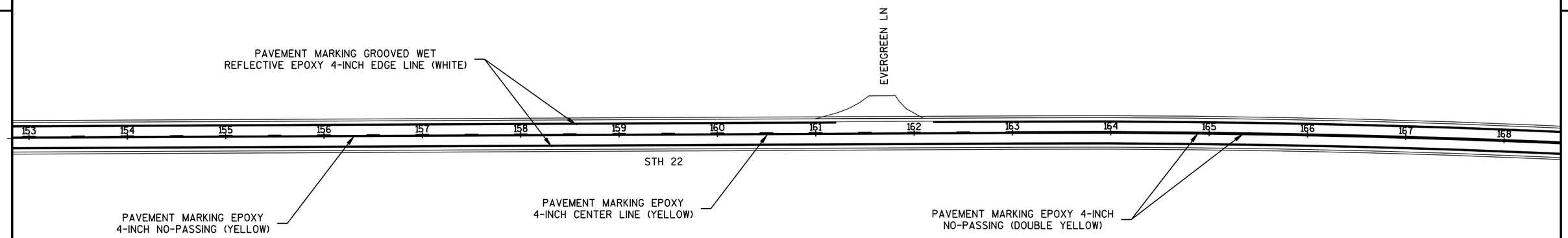
PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

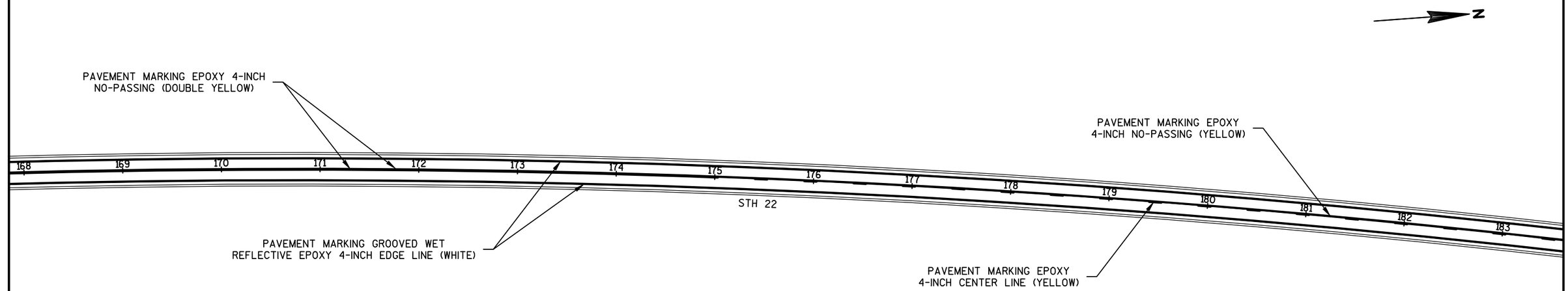
PAVEMENT MARKING EPOXY
4-INCH NO-PASSING (YELLOW)

NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 34	E

2





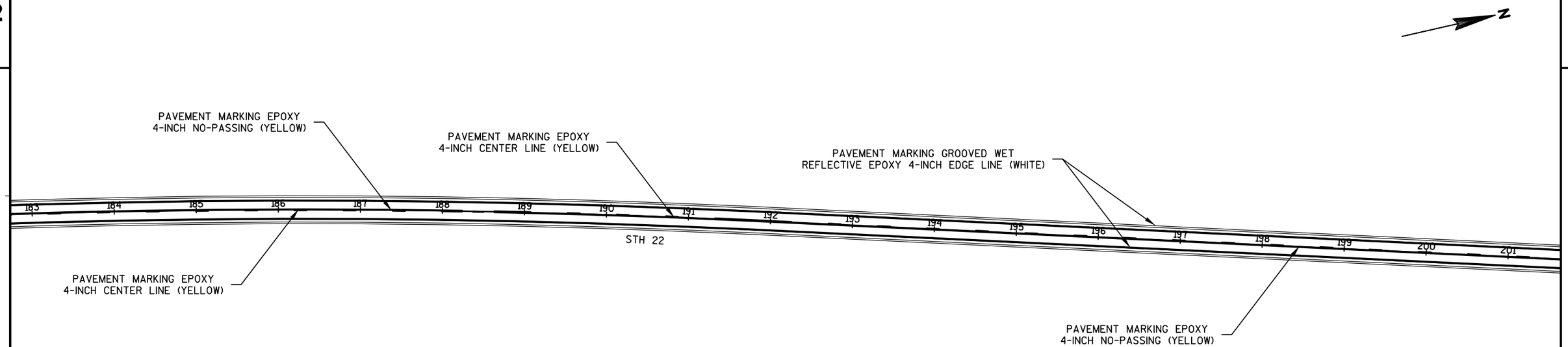
NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

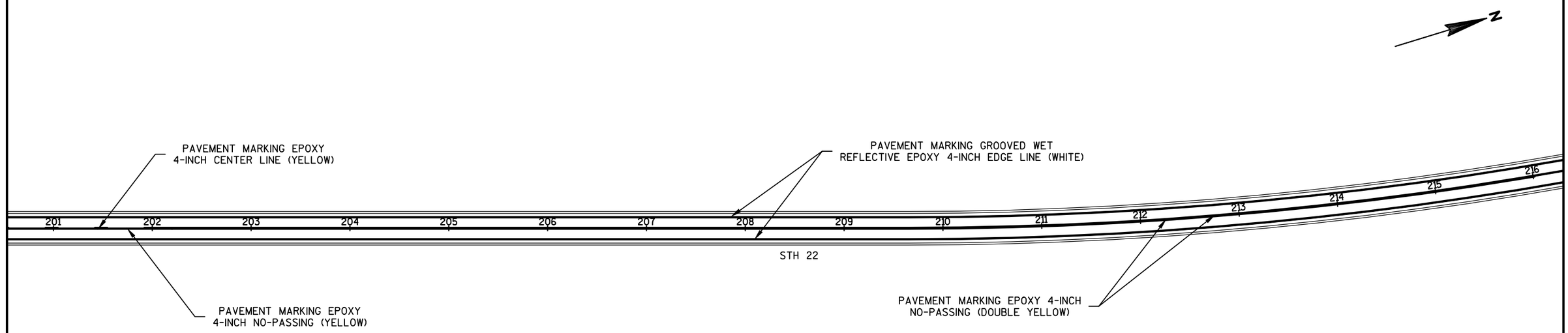
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 35	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\024501-PM.DWG PLOT DATE : 1/9/2017 7:37 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

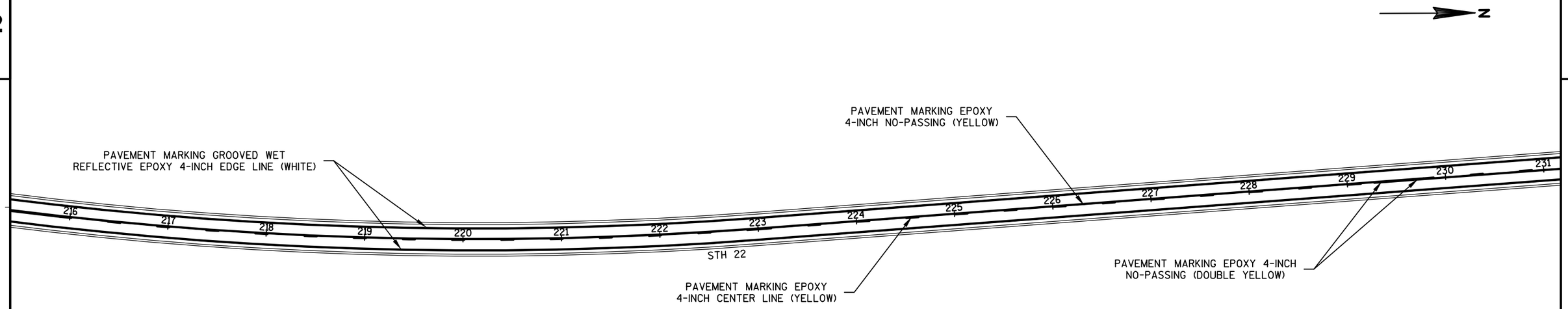


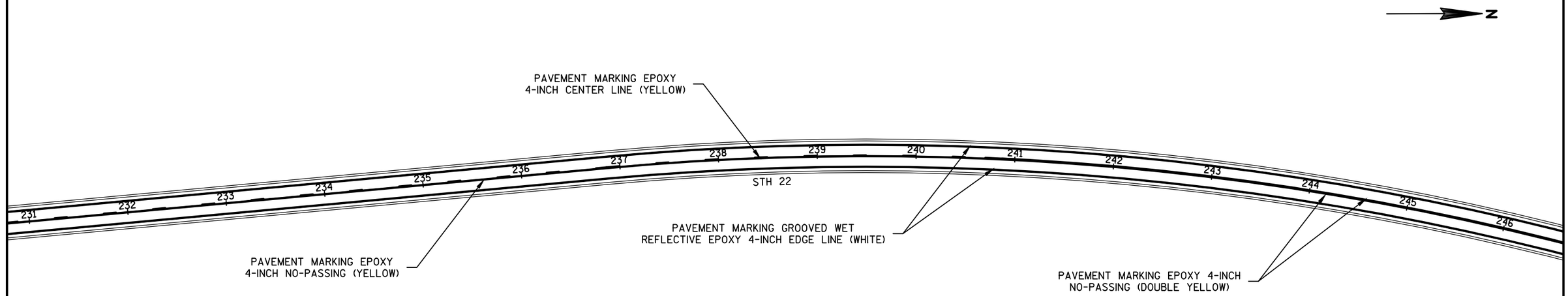


NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 36	E

2

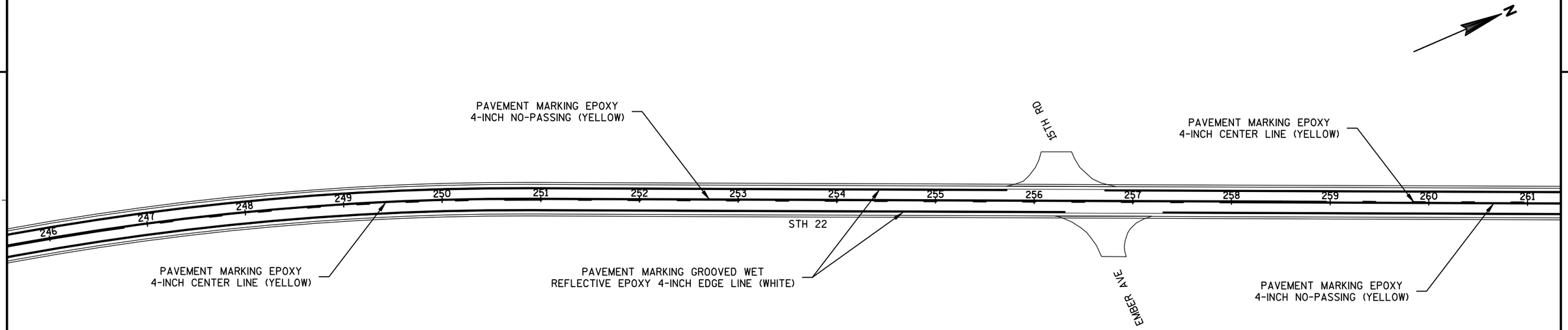


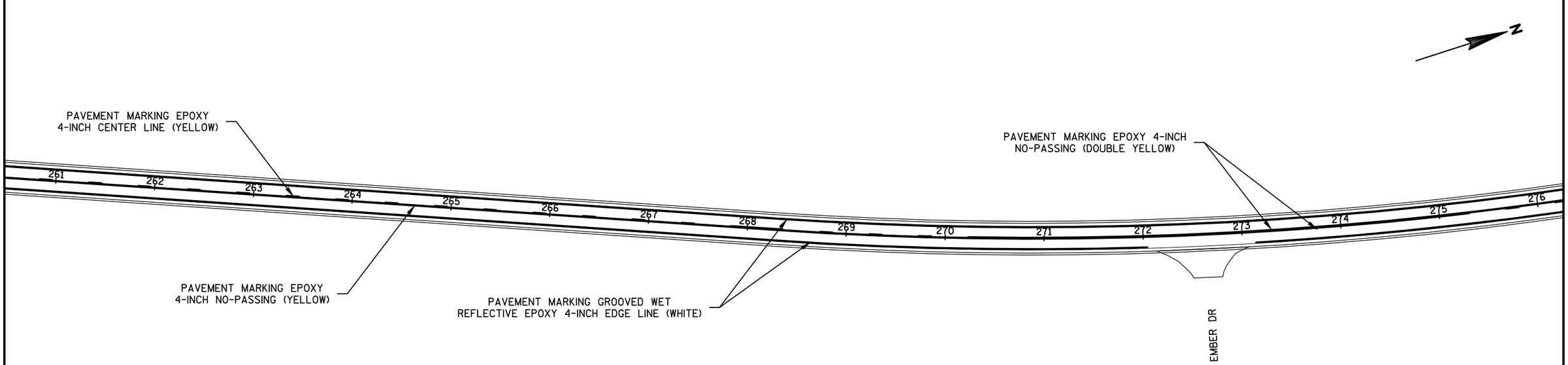


NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 37	E

2



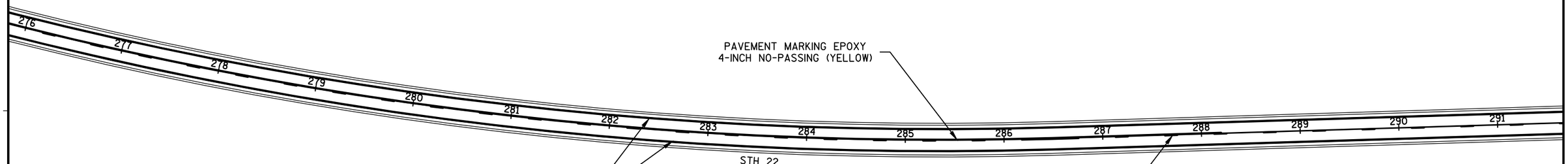


NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 38	E

2

N

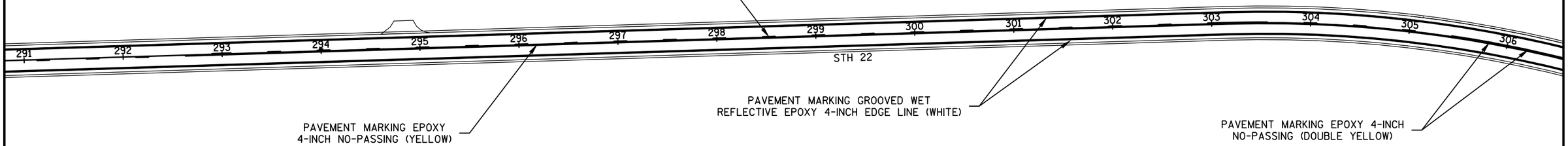


PAVEMENT MARKING EPOXY
4-INCH NO-PASSING (YELLOW)

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

N



PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

PAVEMENT MARKING EPOXY
4-INCH NO-PASSING (YELLOW)

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

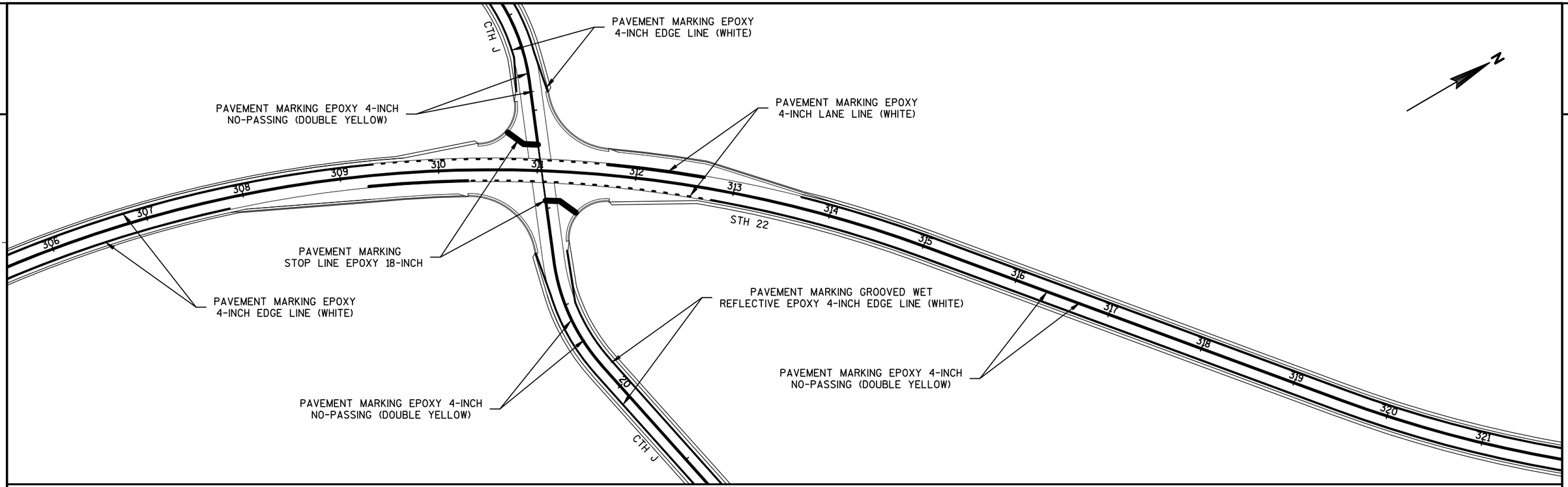
PAVEMENT MARKING EPOXY 4-INCH
NO-PASSING (DOUBLE YELLOW)

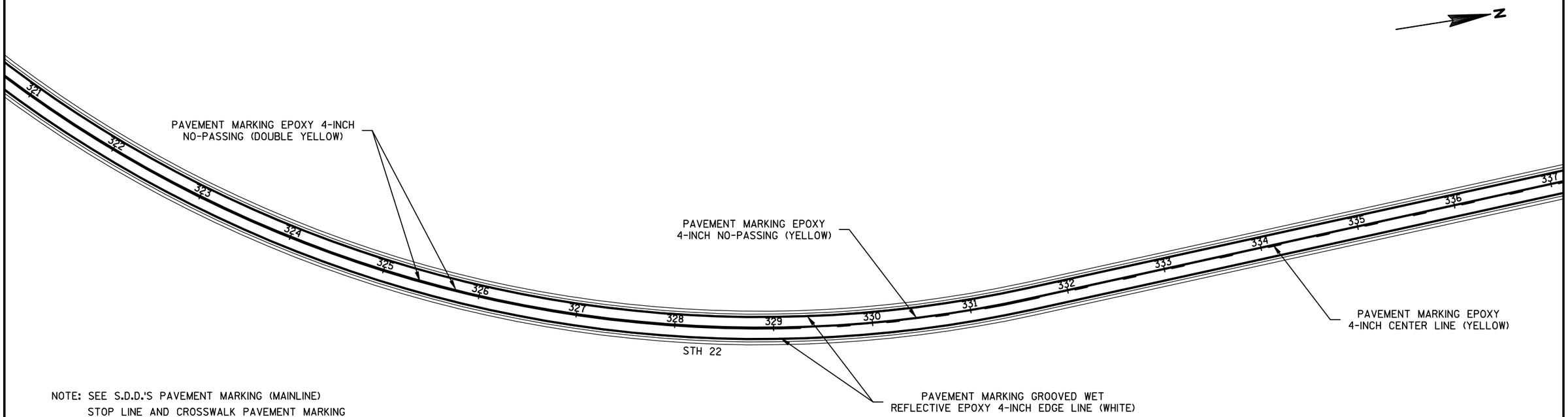
NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 39	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\024501-PM.DWG PLOT DATE : 1/9/2017 7:37 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:100_XREF

2

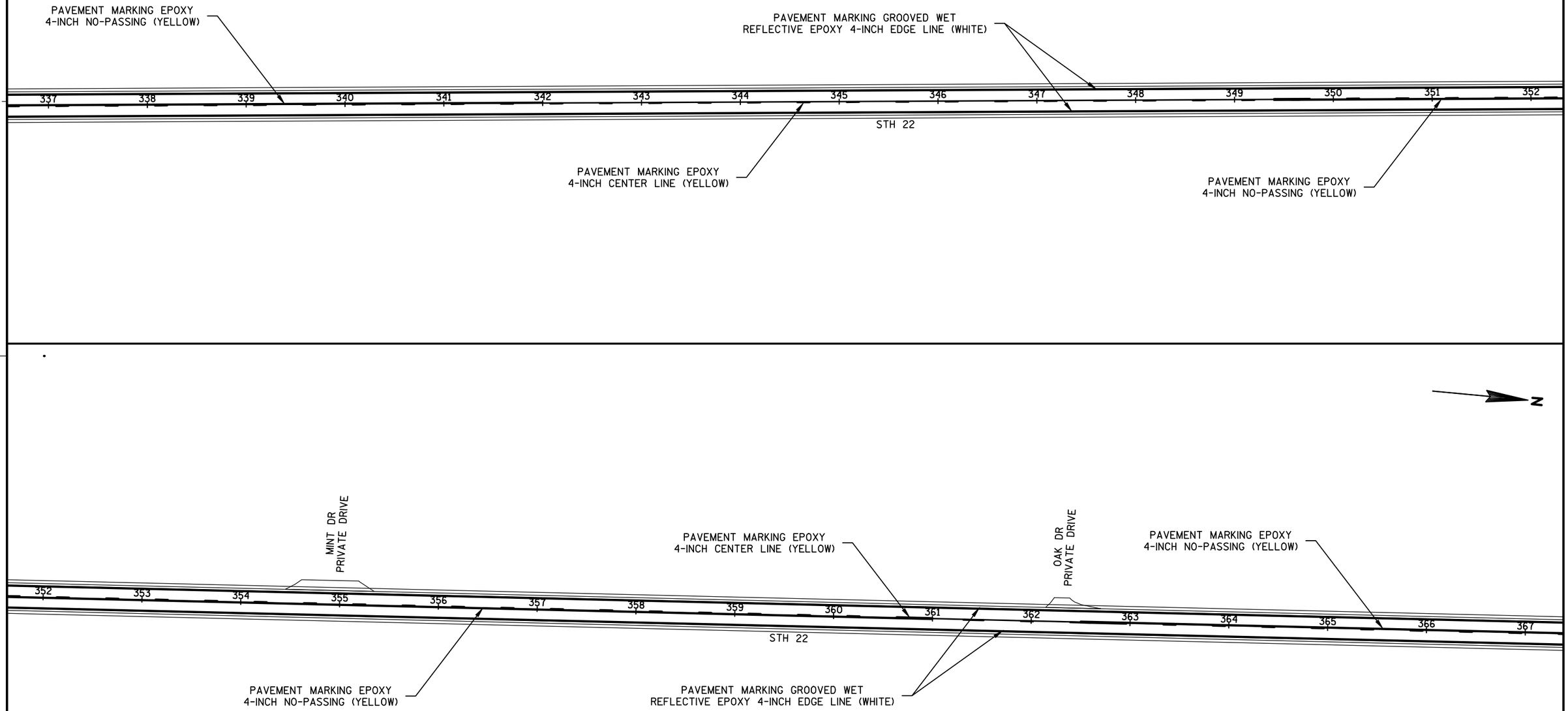




NOTE: SEE S.D.D.'S PAVEMENT MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKING

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 40	E

2



NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE).

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 41	E

2

N

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

PAVEMENT MARKING EPOXY
4-INCH NO-PASSING (YELLOW)

367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382

STH 22

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

PAVEMENT MARKING EPOXY
4-INCH NO-PASSING (YELLOW)

N

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400

SHORT RD

STH 22

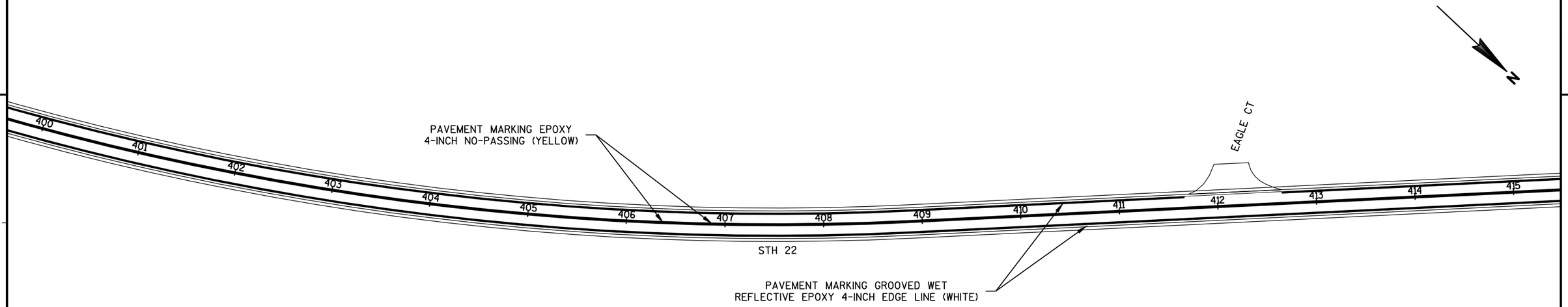
PAVEMENT MARKING EPOXY
4-INCH NO-PASSING (YELLOW)

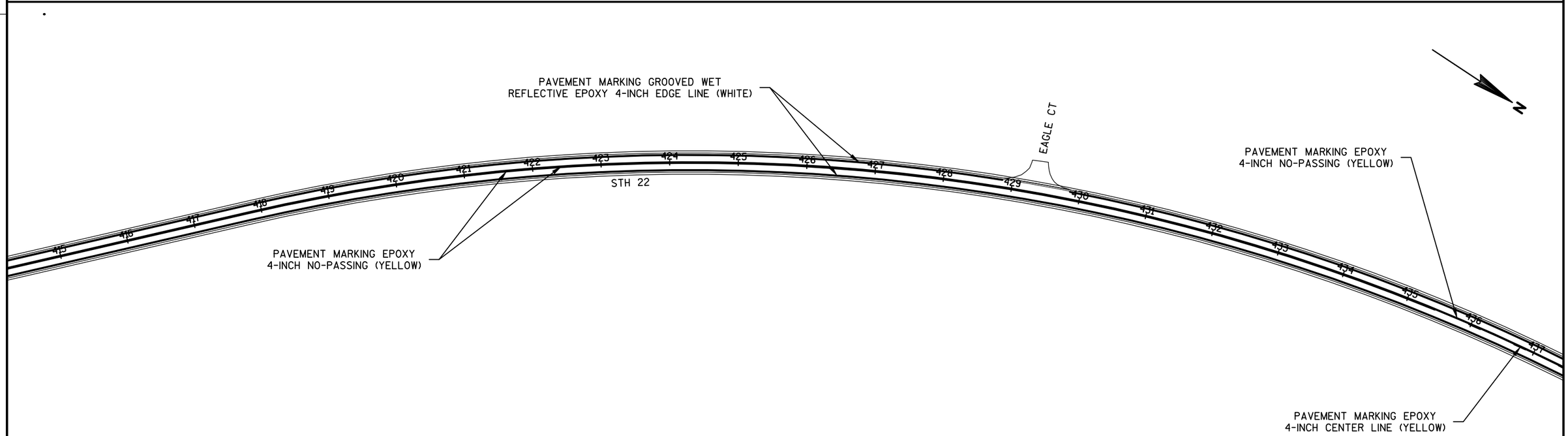
PAVEMENT MARKING EPOXY 4-INCH
NO-PASSING (DOUBLE YELLOW)

NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 42	E

2





NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 43	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\024501-PM.DWG PLOT DATE : 1/9/2017 7:37 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:100_XREF

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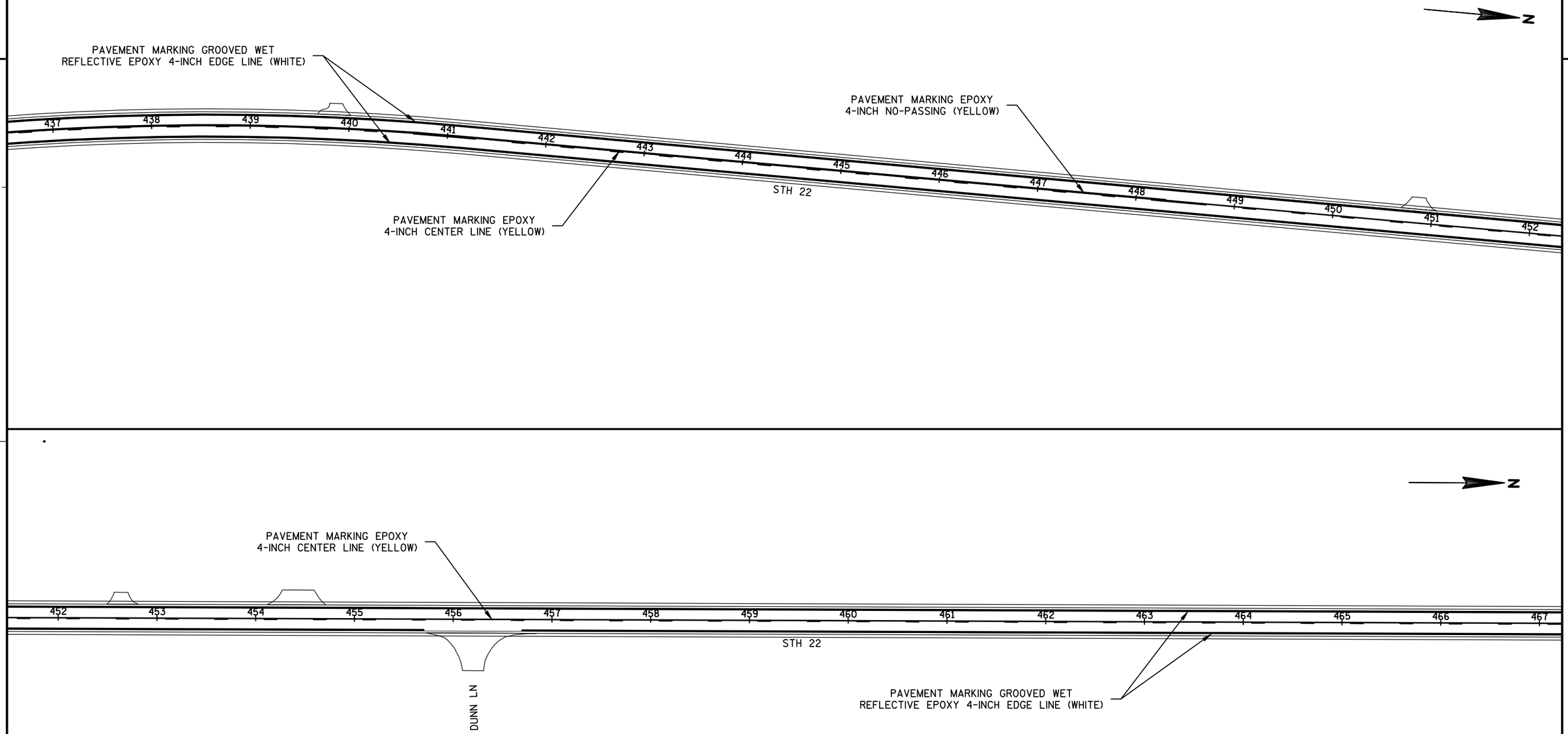


NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 44	E

2

2

N

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482

STH 22

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

N

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

15TH DR

482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497

STH 22

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

EAGLE RD

NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 45	E

2

N

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512

STH 22

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

N

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

EXISTING BRIDGE STRUCTURE B-39-4

512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527

STH 22

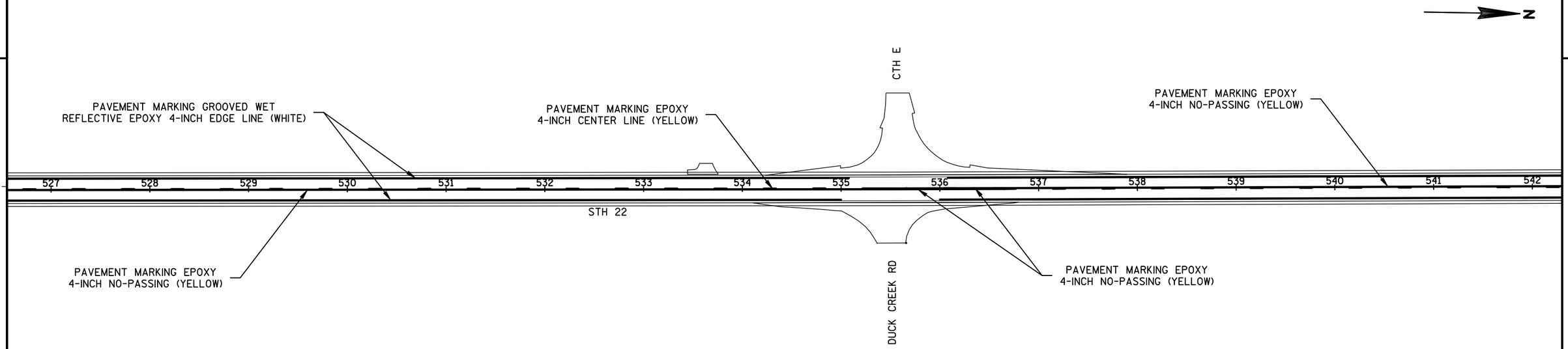
PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

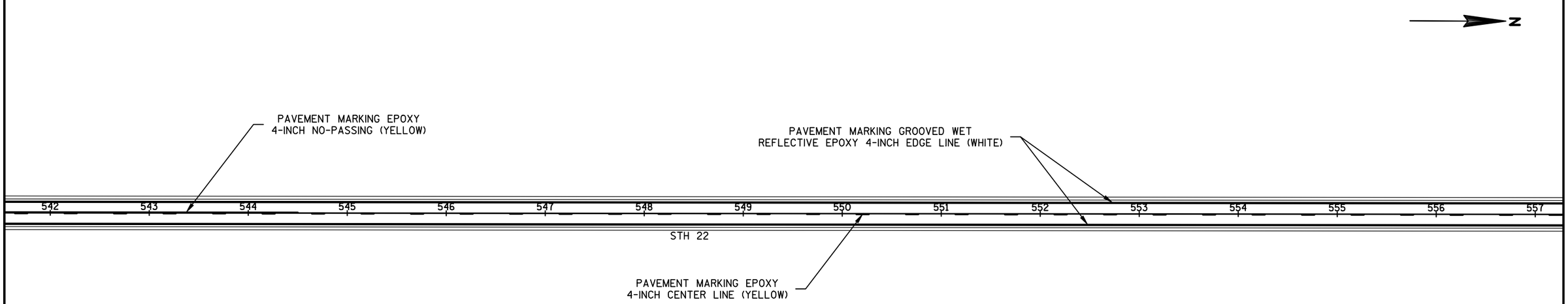
PAVEMENT MARKING EPOXY
4-INCH NO-PASSING (YELLOW)

NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 46	E

2





NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 47	E

2

2

N

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572

STH 22

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

N

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587

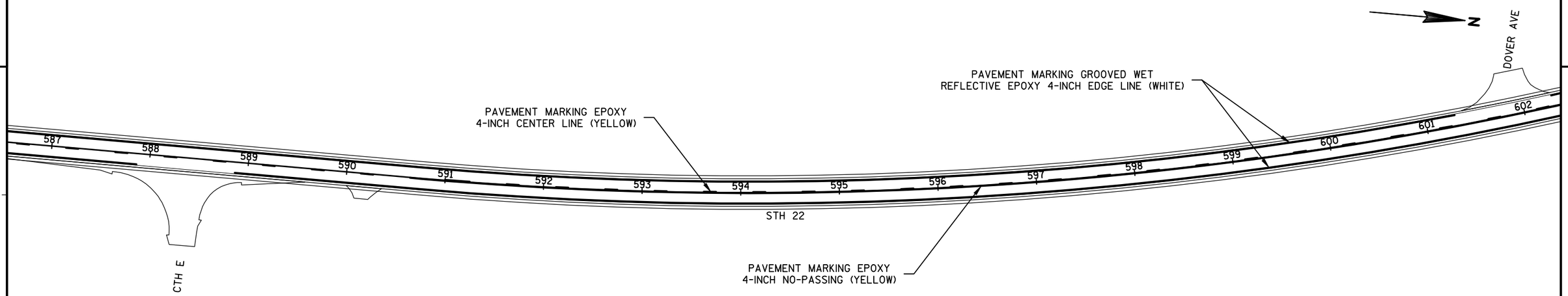
STH 22

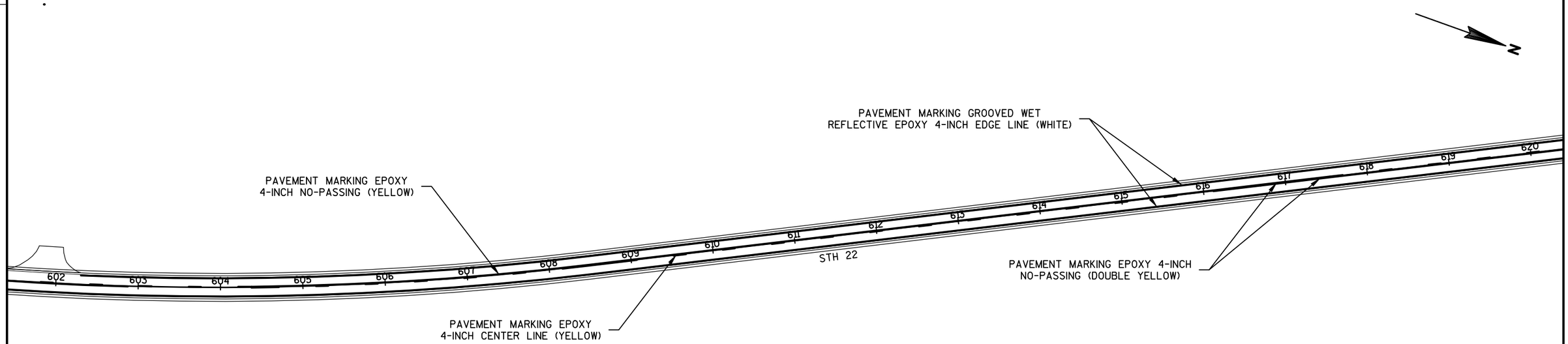
PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 48	E

2

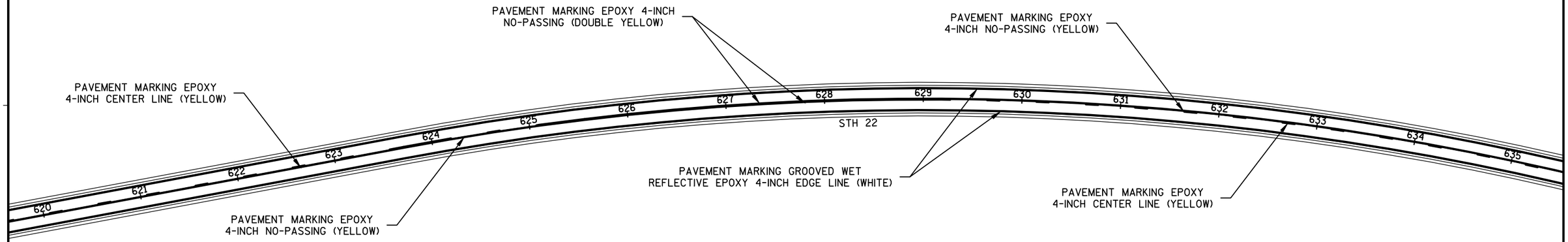


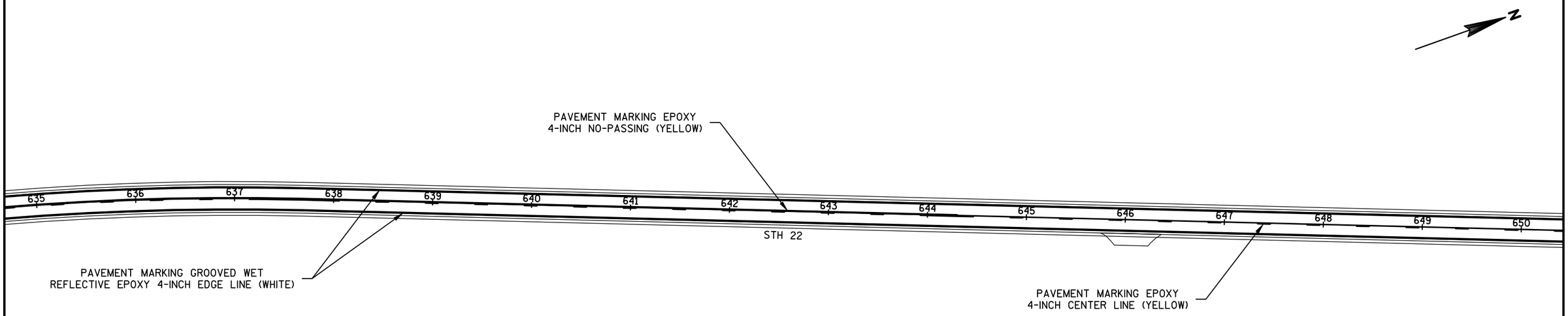


NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 49	E

2





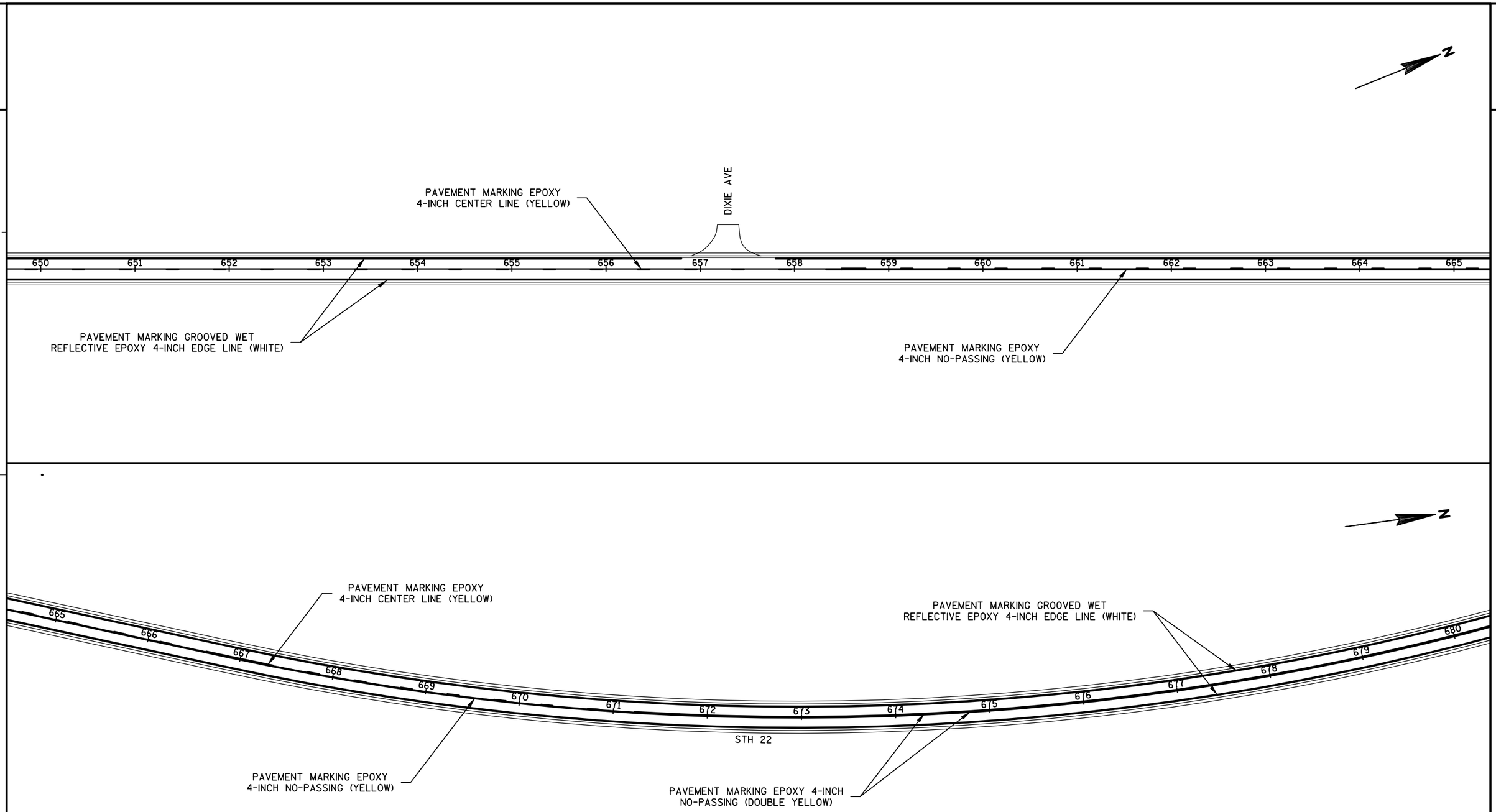
NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 50	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\024501-PM.DWG PLOT DATE : 1/9/2017 7:37 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:100_XREF

2

2



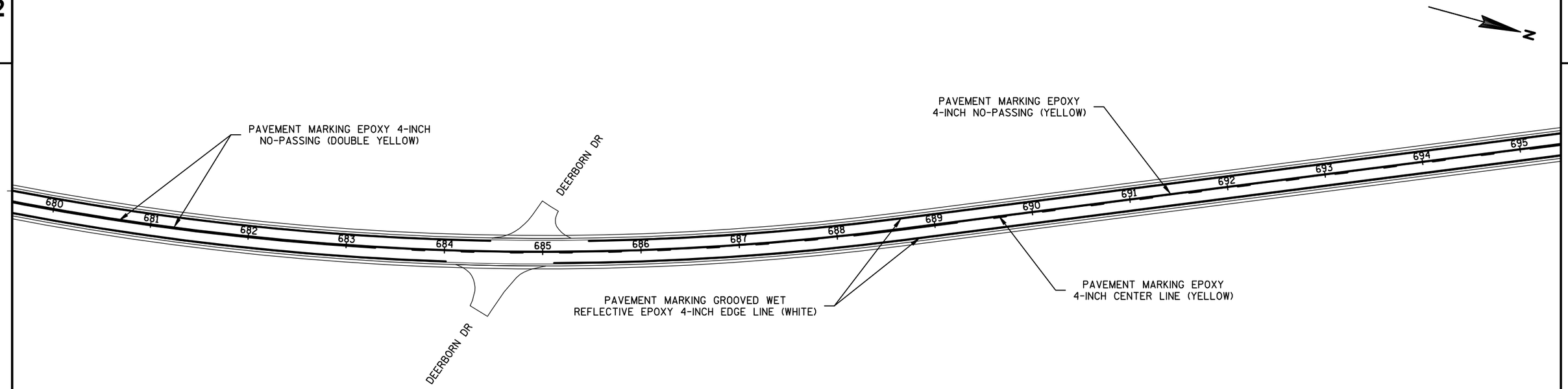
NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

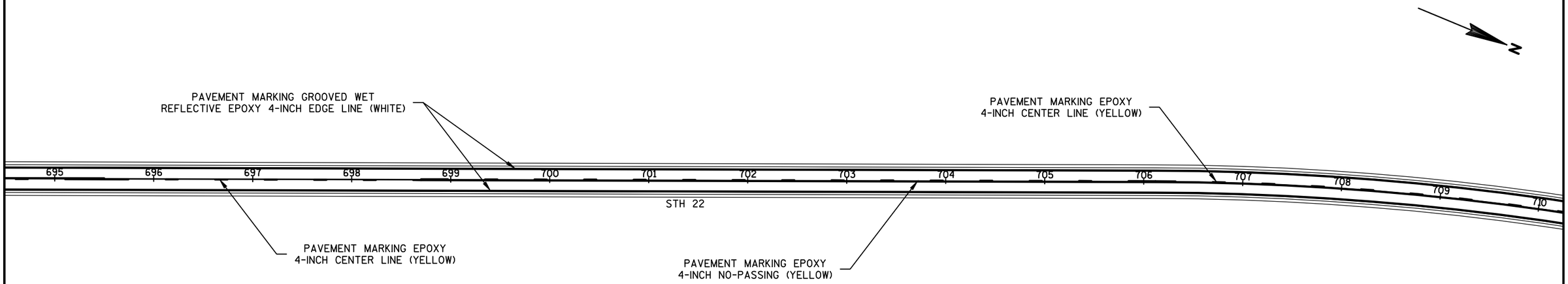
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\024501-PM.DWG PLOT DATE : 1/9/2017 7:37 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

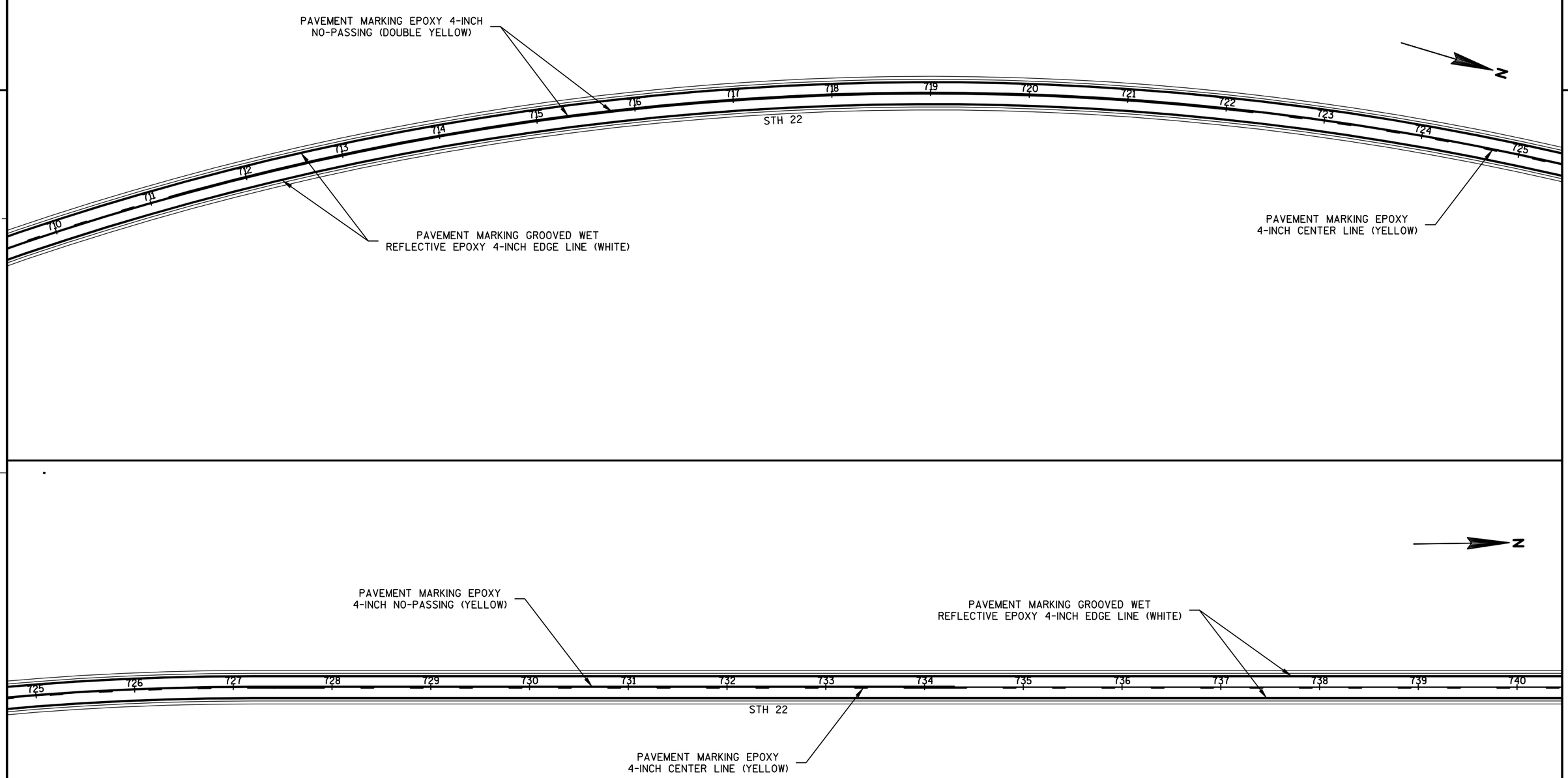




NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 52	E

2



NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 53	E

2

2

N

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755

STH 22

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

N

PAVEMENT MARKING GROOVED WET
REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE)

755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770

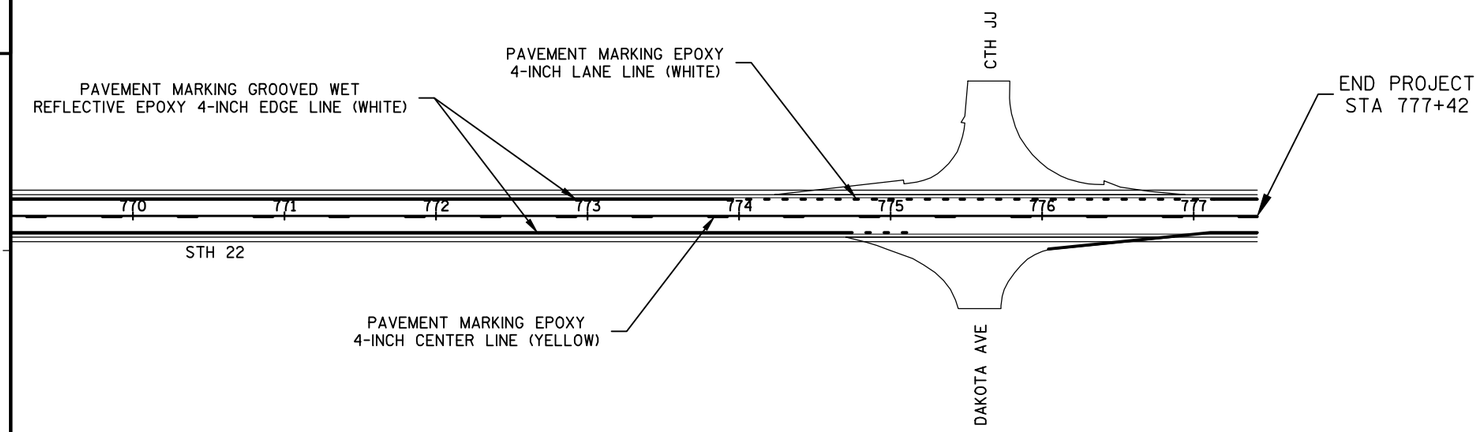
STH 22

PAVEMENT MARKING EPOXY
4-INCH CENTER LINE (YELLOW)

NOTE: SEE S.D.D. PAVEMENT MARKING (MAINLINE)

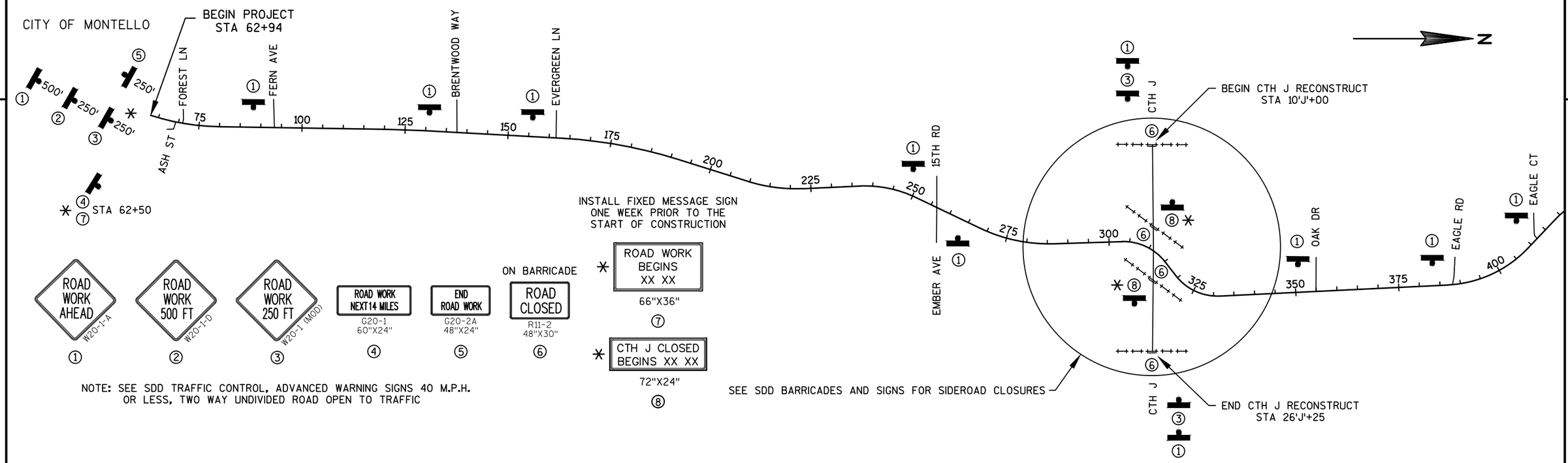
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 54	E

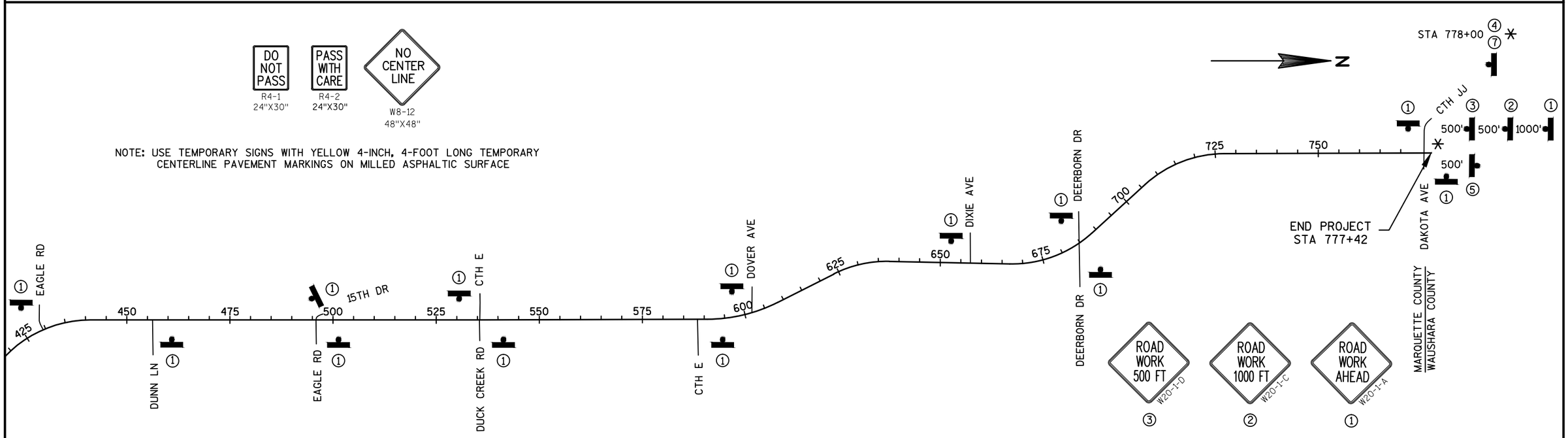
2



NOTE: SEE S.D.D.'S PAVEMENT MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKING

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 55	E





PROJECT NO: 6150-01-76	HWY: 22	COUNTY: MARQUETTE	TRAFFIC CONTROL PLAN	SHEET 56 E

OVERVIEW OF ROAD CLOSED SIGN LOCATIONS FOR CTH J

N

END PROJECT
STA 777+42

SEE DETAIL 1

SEE DETAIL 2

SEE DETAIL 3

SEE DETAIL 4

SEE DETAIL 5

END CTH J
CONSTRUCTION

BEGIN CTH J
CONSTRUCTION

BEGIN PROJECT
STA 62+94

WAUSHARA

MARQUETTE

Neshkoro

Montello

Westfield

Oxford

Princeton

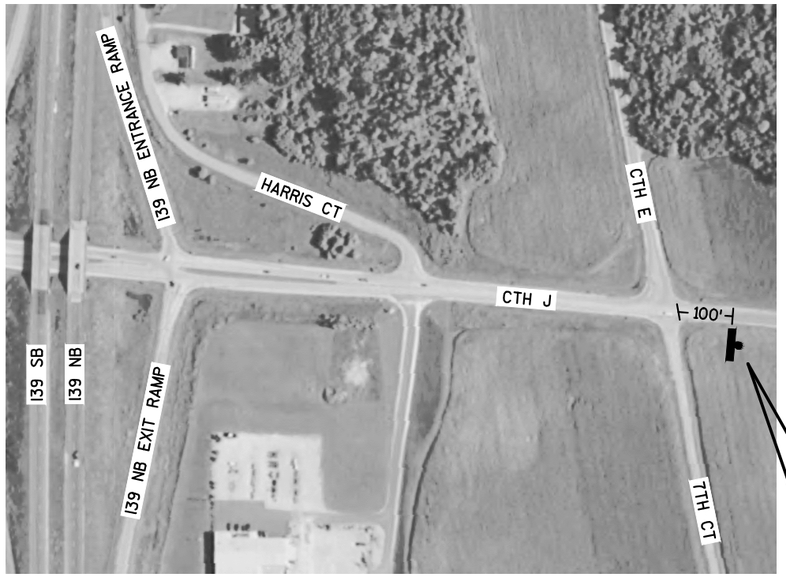
GREEN
LAKE

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	ROAD CLOSED SIGN LOCATIONS FOR CTH J	SHEET 57	E

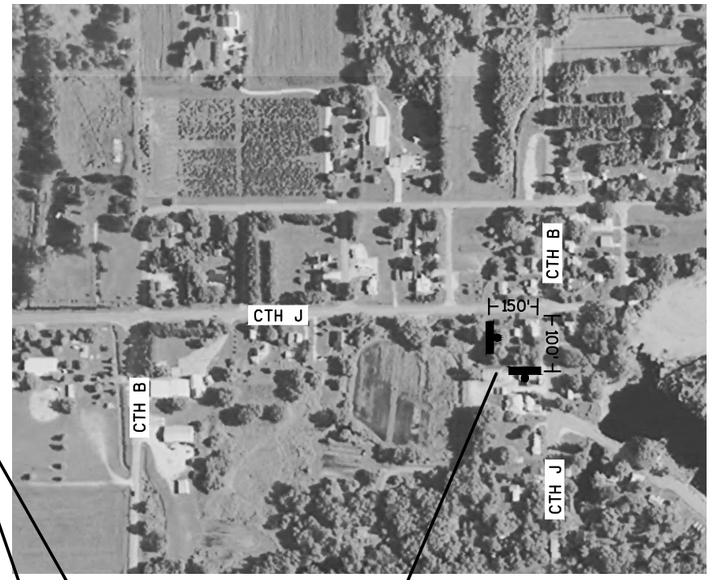
DETAIL SHEET OF ROAD CLOSED SIGN LOCATIONS FOR CTH J

2

DETAIL 1



DETAIL 2



DETAIL 3

N

COUNTY J 24"X24"

ROAD CLOSED 9 MILES AHEAD LOCAL TRAFFIC ONLY 60"X30"

CTH J CLOSED 9 MILES AHEAD BEGINS XX XX 84"X36"

COUNTY J 24"X24"

ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY 60"X30"

COUNTY J 24"X24"

ROAD CLOSED 5 MILES AHEAD LOCAL TRAFFIC ONLY 60"X30"

COUNTY J 24"X24"

ROAD CLOSED 3 MILES AHEAD LOCAL TRAFFIC ONLY 60"X30"

CTH J CLOSED 3 MILES AHEAD BEGINS XX XX 84"X36"

COUNTY J 24"X24"

ROAD CLOSED 8 MILES AHEAD LOCAL TRAFFIC ONLY 60"X30"

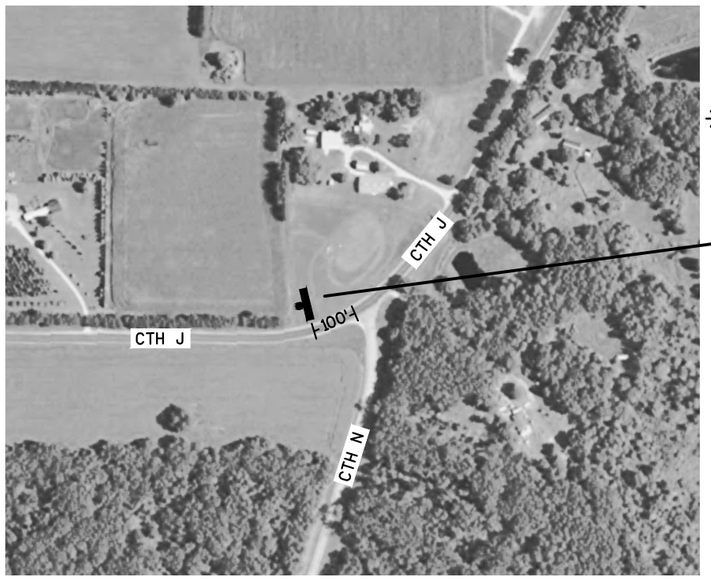
CTH J CLOSED 8 MILES AHEAD BEGINS XX XX 84"X36"

* INSTALL FIXED MESSAGE SIGNS ONE WEEK PRIOR TO THE START OF CONSTRUCTION

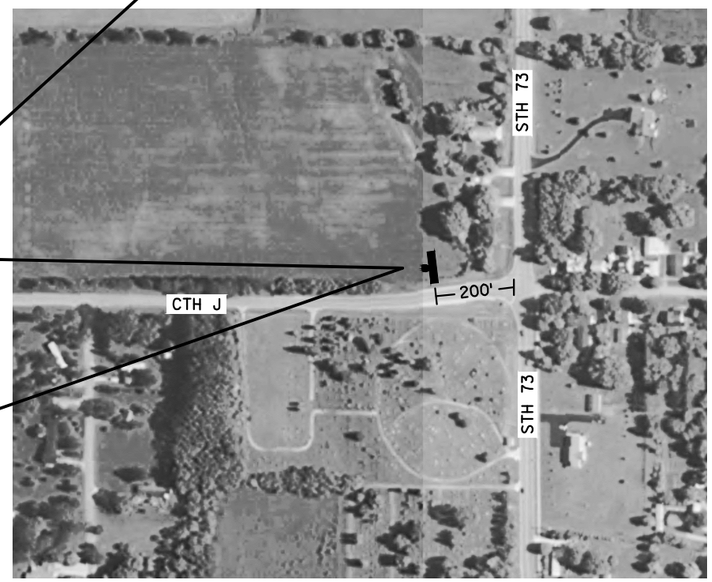
NOTE: ADJUST SIGN LOCATIONS TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER IN THE FIELD

REMOVE OR COVER SIGNS WHEN COUNTY J IS NOT CLOSED

DETAIL 4



DETAIL 5



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	ROAD CLOSED SIGN LOCATIONS FOR CTH J	SHEET 58	E

6150-01-76

Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	12.000	12.000
0020	201.0205	Grubbing	STA	12.000	12.000
0030	203.0100	Removing Small Pipe Culverts	EACH	15.000	15.000
0040	204.0110	Removing Asphaltic Surface	SY	131.000	131.000
0050	204.0115	Removing Asphaltic Surface Butt Joints	SY	601.000	601.000
0060	204.0120	Removing Asphaltic Surface Milling	SY	10,114.000	10,114.000
0070	204.0125	Removing Asphaltic Surface Milling	TON	12,167.000	12,167.000
0080	204.0130	Removing Curb	LF	213.000	213.000
0090	204.0150	Removing Curb & Gutter	LF	314.000	314.000
0100	204.0165	Removing Guardrail	LF	323.000	323.000
0110	204.0180	Removing Delineators and Markers	EACH	48.000	48.000
0120	205.0100	Excavation Common	CY	7,359.000	7,359.000
0130	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	454.000	454.000
0140	213.0100	Finishing Roadway (project) 01. 6150-01-76	EACH	1.000	1.000
0150	305.0110	Base Aggregate Dense 3/4-Inch	TON	6,650.000	6,650.000
0160	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	3,808.000	3,808.000
0170	305.0500	Shaping Shoulders	STA	1,412.000	1,412.000
0180	440.4410	Incentive IRI Ride	DOL	54,124.000	54,124.000
0190	455.0605	Tack Coat	GAL	15,866.000	15,866.000
0200	460.2000	Incentive Density HMA Pavement	DOL	18,800.000	18,800.000
0210	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	71,375.000	71,375.000
0220	460.5224	HMA Pavement 4 LT 58-28 S	TON	29,363.000	29,363.000
0230	465.0110	Asphaltic Surface Patching	TON	22.000	22.000
0240	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	86.000	86.000
0250	465.0315	Asphaltic Flumes	SY	54.000	54.000
0260	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	60,715.000	60,715.000
0270	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	12.000	12.000
0280	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	78.000	78.000
0290	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	18.000	18.000
0300	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000
0310	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	11.000	11.000
0320	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0330	524.0118	Culvert Pipe Salvaged 18-Inch	LF	12.000	12.000
0340	524.0124	Culvert Pipe Salvaged 24-Inch	LF	48.000	48.000
0350	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	322.000	322.000
0360	614.2300	MGS Guardrail 3	LF	300.000	300.000
0370	614.2500	MGS Thrie Beam Transition	LF	157.600	157.600

6150-01-76

Line	Item	Item Description	Unit	Total	Qty
0380	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0390	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6150-01-76	EACH	1.000	1.000
0400	619.1000	Mobilization	EACH	1.000	1.000
0410	624.0100	Water	MGAL	32.000	32.000
0420	625.0100	Topsoil	SY	13,615.000	13,615.000
0430	627.0200	Mulching	SY	11,170.000	11,170.000
0440	628.1504	Silt Fence	LF	3,845.000	3,845.000
0450	628.1520	Silt Fence Maintenance	LF	3,845.000	3,845.000
0460	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0470	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0480	628.2002	Erosion Mat Class I Type A	SY	593.000	593.000
0490	628.2027	Erosion Mat Class II Type C	SY	2,360.000	2,360.000
0500	628.7555	Culvert Pipe Checks	EACH	30.000	30.000
0510	628.7570	Rock Bags	EACH	48.000	48.000
0520	629.0210	Fertilizer Type B	CWT	21.590	21.590
0530	630.0120	Seeding Mixture No. 20	LB	729.000	729.000
0540	633.5200	Markers Culvert End	EACH	56.000	56.000
0550	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	10.000	10.000
0560	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	118.000	118.000
0570	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	2.000	2.000
0580	634.0810	Posts Tubular Steel 2x2-Inch X 10-FT	EACH	4.000	4.000
0590	637.2210	Signs Type II Reflective H	SF	560.030	560.030
0600	637.2230	Signs Type II Reflective F	SF	254.500	254.500
0610	638.2602	Removing Signs Type II	EACH	123.000	123.000
0620	638.3000	Removing Small Sign Supports	EACH	130.000	130.000
0630	642.5201	Field Office Type C	EACH	1.000	1.000
0640	643.0100	Traffic Control (project) 01. 6150-01-76	EACH	1.000	1.000
0650	643.0300	Traffic Control Drums	DAY	520.000	520.000
0660	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0670	643.0420	Traffic Control Barricades Type III	DAY	520.000	520.000
0680	643.0705	Traffic Control Warning Lights Type A	DAY	208.000	208.000
0690	643.0900	Traffic Control Signs	DAY	2,200.000	2,200.000
0700	643.1000	Traffic Control Signs Fixed Message	SF	120.000	120.000
0710	646.0106	Pavement Marking Epoxy 4-Inch	LF	74,716.000	74,716.000
0720	646.0126	Pavement Marking Epoxy 8-Inch	LF	202.000	202.000
0730	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	71,457.000	71,457.000
0740	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	142,422.000	142,422.000
0750	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	58.000	58.000

6150-01-76

Line	Item	Item Description	Unit	Total	Qty
0760	648.0100	Locating No-Passing Zones	MI	13.530	13.530
0770	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	5,710.000	5,710.000
0780	650.4500	Construction Staking Subgrade	LF	2,843.000	2,843.000
0790	650.5000	Construction Staking Base	LF	2,843.000	2,843.000
0800	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	322.000	322.000
0810	650.8000	Construction Staking Resurfacing Reference	LF	71,448.000	71,448.000
0820	650.9910	Construction Staking Supplemental Control (project) 01. 6150-01-76	LS	1.000	1.000
0830	650.9920	Construction Staking Slope Stakes	LF	2,843.000	2,843.000
0840	690.0150	Sawing Asphalt	LF	1,828.000	1,828.000
0850	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0860	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,260.000	1,260.000
0870	SPV.0060	Special 01. Grading, Shaping, and Finishing Culvert Pipe Ends	EACH	15.000	15.000
0880	SPV.0180	Special 01. Sealing Top of Pipe Area	SY	23.000	23.000

3

CLEARING & GRUBBING

STATION - STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	REMARKS
STA 13'J'+00 - STA 17'J'+00	LT	4	4	CLEAR & GRUBB TO R/W
STA 18'J'+00 - STA 21'J'+00	RT & LT	3	3	CLEAR & GRUBB TO R/W
STA 305+00 - STA 310+00	RT	5	5	CLEAR & GRUBB TO R/W
	TOTALS	12	12	

REMOVING ASPHALTIC SURFACE

STATION	LOCATION	204.0110 SY	REMARKS
STA 178+10	RT	13	CULVERT PIPE REPAIR WORK
STA 317+20	RT	13	CULVERT PIPE REPAIR WORK
STA 317+20	LT	13	CULVERT PIPE REPAIR WORK
STA 370+60	LT	13	CULVERT PIPE REPAIR WORK
STA 394+60	RT	13	CULVERT PIPE REPAIR WORK
STA 394+60	LT	13	CULVERT PIPE REPAIR WORK
STA 450+18	RT	14	CULVERT PIPE REPAIR WORK
STA 547+00	RT	13	CULVERT PIPE REPAIR WORK
STA 675+00	LT	13	CULVERT PIPE REPAIR WORK
STA 739+90	RT	13	CULVERT PIPE REPAIR WORK
	TOTAL	131	

3

EARTHWORK SUMMARY

Station - Station	Location	Item No 205.0100 Common Excavation (1)	Salvaged/Unusable Pavement Material (2)	Available Material (3)	Unexpanded Fill	Expanded Fill (4) Fill Factor 1.25	Mass Ordinate + / - (5)	Waste	Borrow
518+50 - 525+25	RT & LT	289	26	263	382	478	-215	0	215
307+25 - 314+25	RT & LT	1,293	261	1,032	60	75	957	957	0
10'J'+00 - 26'J'+25	RT & LT	5,718	429	5,289	2,785	3,481	1,808	1,808	0
10'BL'+00 - 11'BL'+96	RT & LT	59	3	56	340	425	-369	0	369
Totals		7,359	719	6,640	3,567	4,459	2,182	2,765	584

1) Common Excavation is the sum of the Cut
2) Salvaged/Unsuable Pavement Material is included in the Cut
3) Available Material = Cut - Salvaged/Unusuable Pavement Material
4) Expanded Fill, Fill Factor = 1.25
5) The Mass Ordinate is the + or - quantity calculated, a plus quantity indicates an excess of material and a minus indicates a shortage of material

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REMOVING ASPHALTIC SURFACE MILLING

STATION - STATION	204.0120 SY	204.0125 TON	REMARKS
STA 63+34 - STA 79+97	---	330	43' WIDE - 32' WIDE - 1" MILL
STA 79+97 - STA 80+57	40	---	4' - 2' OF SHLDR WIDTH RT & LT - FULL DEPTH MILL 3½" AVG
STA 80+57 - STA 138+00 BRENTWOOD WAY	2552	---	2' OF SHLDR WIDTH RT & LT - FULL DEPTH MILL 3½" AVG
STA 79+97 - STA 138+00 BRENTWOOD WAY	---	851	2-12' LANES - 24' WIDE - 1" MILL
STA 138+00 BRENTWOOD WAY - STA 307+25 CTH J	7522	---	2' OF SHLDR WIDTH RT & LT - FULL DEPTH MILL 3½" AVG
STA 138+00 BRENTWOOD WAY - STA 307+25 CTH J	---	2482	2-12' LANES - 1" MILL
STA 307+25 - STA 314+25	---	103	2-12' LANES - 1" MILL
STA 314+25 CTH J - STA 521+17 B-39-4	---	3541	2-11' LANES 3' SHLDRS - 28' WIDE - 1" MILL
STA 522+70 B-39-4 - STA 777+02	---	4352	2-11' LANES 3' SHLDRS - 28' WIDE - 1" MILL
ASH ST	---	14	1" MILL
FOREST LN	---	11	"
FERN AVE	---	11	"
BRENTWOOD WAY	---	7	"
EVERGREEN LN	---	12	"
EMBER AVE	---	16	"
15TH AVE	---	16	"
EMBER DR (EAST)	---	13	"
MINT DRIVE	---	6	"
SHORT ROAD	---	4	"
EAGLE CT	---	13	"
EAGLE CT	---	12	"
DUNN LN	---	13	"
EAGLE RD	---	16	"
15TH DR	---	27	"
DUCK CREEK	---	27	"
CTH E (WEST)	---	45	"
CTH E (EAST)	---	41	"
DOVER AVE	---	12	"
DIXIE AVE	---	10	"
DEERBORNE DR (EAST)	---	10	"
DEERBORNE DR (WEST)	---	16	"
CTH JJ	---	40	"
DAKOTA AVE	---	28	"
DRIVEWAYS	---	88	"
TOTALS	10114	12167	

REMOVING ASPHALTIC SURFACE BUTT JOINT

STATION - STATION	204.0115 SY	REMARKS
STA 62+94 - STA 63+34	202	BEGIN PROJECT - 48' WIDE TO 43' WIDE
STA 521+17 - STA 521+57	124	APPROACH AT MECAN RIVER BRIDGE
STA 522+30 - STA 522+70	124	APPROACH AT MECAN RIVER BRIDGE
STA 777+02 - STA 777+42	151	END PROJECT - 34' WIDE
TOTAL	601	

REMOVING CURB & REMOVING CURB & GUTTER

LOCATION	REMOVING CURB 204.0130 LF	REMOVING CURB & GUTTER 204.0150 LF	REMARKS
CTH J - ISLAND	105	---	6-INCH CURB
CTH J - ISLAND	108	---	6-INCH CURB
CTH J - NE QUADRANT	---	66	36-INCH CURB & GUTTER
CTH J - SE QUADRANT	---	94	36-INCH CURB & GUTTER
CTH J - SW QUADRANT	---	66	36-INCH CURB & GUTTER
CTH J - NW QUADRANT	---	88	36-INCH CURB & GUTTER
TOTALS	213	314	

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF	REMARKS
STA 522+24 - STA 523+31	RT	110	B-39-4 NE QUADRANT
STA 520+48 - STA 521+55	RT	107	B-39-4 SE QUADRANT
STA 520+49 - STA 521+55	LT	106	B-39-4 SW QUADRANT
STA 522+24 - STA 523+31	LT	110	B-39-4 NW QUADRANT
	TOTAL	323	

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PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

STATION - STATION	LOCATION	211.0400 STA
STA 79+97 - STA 307+25	RT	227
STA 79+97 - STA 307+25	LT	227
	TOTAL	454

SHAPING SHOULDERS

STATION - STATION	LOCATION	305.0500 STA
STA 62+94 BEGIN PROJ - STA 307+25 CTH J	RT & LT	488
STA 314+25 CTH J - STA 521+57 B-39-4	RT & LT	414
STA 522+30 B-39-4 - STA 777+42 END PROJ	RT & LT	510
	TOTAL	1412

BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	REMARKS
STA 62+94 - STA 138+00 BRENTWOOD WAY	RT & LT	656	---	MAINLINE SHOULDERS
STA 138+00 BRENTWOOD WAY - STA 310+29 CTH J	RT	1394	---	MAINLINE SHOULDER
STA 138+00 BRENTWOOD WAY - STA 310+40 CTH J	LT	1404	---	MAINLINE SHOULDER
STA 311+74 CTH J - STA 521+57 B-39-4	RT	623	---	MAINLINE SHOULDER
STA 311+70 CTH J - STA 521+57 B-39-4	LT	602	---	MAINLINE SHOULDER
STA 522+30 B-39-4 - STA 777+42 END	RT	702	---	MAINLINE SHOULDER
STA 522+30 B-39-4 - STA 777+42 END	LT	724	---	MAINLINE SHOULDER
STA 10'J'+00 - STA 16'J'+89	RT	67	---	CTH J SHOULDER
STA 10'J'+00 - STA 16'J'+83	LT	66	---	CTH J SHOULDER
STA 18'J'+44 - STA 26'J'+25	RT	76	---	CTH J SHOULDER
STA 18'J'+36 - STA 26'J'+25	LT	76	---	CTH J SHOULDER
SIDEROADS	RT & LT	200	---	SHOULDERS
MAINLINE	RT & LT	---	50	CULVERT PIPE WORK
STA 307+25 - STA 314+25	RT & LT	---	340	CTH J TURN LANES
STA 10'J'+00 - STA 17'J'+50	RT & LT	---	1237	CTH J
STA 17'J'+74 - STA 26'J'+25	RT & LT	---	1407	CTH J
STA 518+50 - STA 525+25	RT & LT	---	657	GUARDRAIL WIDENING
STA 10'BL'+00 - STA 12'BL'+00	RT	---	117	CANOE ACCESS DRIVE
DWY'S	RT & LT	60	---	
	TOTAL	6650	3808	

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

STATION	LOCATION	TYPE	465.0120 TON
63+11	LT	CE	1
65+06	RT	CE	6
66+90	RT	CE	6
65+56	LT	CE	3
67+74	LT	CE	6
74+38	RT	CE	4
78+94	LT	CE	5
83+71	LT	PE	2
87+87	RT	PE	2
98+69	LT	PE	2
113+26	LT	PE	3
115+49	RT	CE	5
118+04	RT	CE	4
122+39	LT	PE	3
152+38	LT	PE	2
294+85	LT	PE	3
23'J'+00	RT	PE	2
354+91	LT	PE	6
362+31	LT	PE	2
439+86	LT	PE	2
450+86	LT	PE	2
452+64	LT	PE	2
454+43	LT	CE	5
533+63	LT	PE	2
590+17	RT	PE	2
645+06	RT	PE	4
		TOTAL	86

ASPHALTIC SURFACE PATCHING

LOCATION	465.0110 TON	REMARKS
PROJECT	22	CULVERT PIPE WORK
TOTAL	22	

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 SY
STA 310+43	27' LT	10
STA 18'J'+46	18' RT	9
STA 311+72	27' LT	17
STA 16'J'+91	18' LT	18
	TOTAL	54

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HMA PAVEMENT

STATION - STATION	LOCATION	455.0605 TACK COAT GAL	460.5224 4 LT 58-28 S TON	REMARKS
STA 62+94 BEGIN PROJECT - STA 79+97	RT & LT	434	683	48' WIDE - 32' WIDE - 2" THICK
STA 79+97 - STA 80+57	RT & LT	4	13	4' SHOULDERS - 4.5" THICK (2.5" LOWER LAYER)
STA 80+57 - STA 138+00 BRENTWOOD WAY	RT & LT	357	1,263	4' SHOULDERS - 4.5" THICK (2.5" LOWER LAYER)
STA 79+97 - STA 138+00 BRENTWOOD WAY	RT & LT	119	1,702	2-12' LANES - 24' WIDE - 2" THICK
STA 138+00 BRENTWOOD WAY - STA 307+25 CTH J	RT & LT	790	2,793	3' SHOULDERS - 4.5" THICK (2.5" LOWER LAYER)
STA 138+00 BRENTWOOD WAY - STA 307+25 CTH J	RT & LT	3,159	4,965	2-12' LANES - 24' WIDE - 2" THICK
CTH J	RT & LT	87	306	TURN LANES AND TAPERS 4.5" THICK (2.5" LOWER LAYER)
STA 307+25 - STA 314+25	RT & LT	131	205	2-12' LANES - 24' WIDE - 2" THICK
STA 10'J'+00 - STA 17'J'+50	CTH J	163	513	RECONSTRUCT 4" THICK
STA 17'J'+74 - STA 26'J'+25	CTH J	185	582	RECONSTRUCT 4" THICK
STA 314+25 - STA 521+57 B-39-4	RT & LT	4,514	7,094	2-12' LANES 2' SHLDRS - 28' WIDE - 2" THICK
STA 522+30 B-39-4 - STA 777+42 END PROJECT	RT & LT	5,557	8,732	2-12' LANES 2' SHLDRS - 28' WIDE - 2" THICK
TAPERS AT BEAMGUARD - MECAN RIVER	RT & LT	18	64	4.5" THICK (2.5" LOWER LAYER)
STA 10'BL+30 - STA 11'BL'+96	RT	---	34	CANOE LANDING ACCESS DRIVE 3" THICK
ASH ST	RT	12	14	1.5" THICK AVG
FOREST LN	LT	9	11	"
FERN AVE	LT	9	11	"
BRENTWOOD WAY	LT	6	7	"
EVERGREEN LN	LT	10	12	"
EMBER AVE	RT	13	16	"
15TH AVE	LT	14	16	"
EMBER DR	RT	11	13	"
SHORT RD	RT	3	4	
EAGLE CT	LT	11	13	"
EAGLE RD	LT	10	12	"
DUNN LN	RT	11	13	"
EAGLE RD	RT	13	16	"
15TH DR	LT	23	27	"
DUCK CREEK	RT	23	27	"
CTH E (WEST)	LT	38	45	"
CTH E (EAST)	RT	35	41	"
DOVER AVE	LT	10	12	"
DIXIE AVE	LT	8	10	"
DEERBORN DR (EAST)	RT	8	10	"
DEERBORN DR (WEST)	LT	13	16	"
CTH JJ	LT	34	40	"
DAKOTA AVE	RT	24	28	"
	TOTALS	15,866	29,363	

ASPHALTIC CL RUMBLE STRIPS 2-LANE RURAL

STATION - STATION	465.0475 LF
STA 80+00 - STA 91+25	1,125
GAP FERN AVE & C.E. RT	---
STA 95+92 - STA 112+25	1,633
GAP CEMETARY ENTRANCES & C.E.'S	---
STA 123+00 - STA 135+60	1,260
GAP BRENTWOOD WAY	---
STA 139+60 STA 159+70	2,010
GAP EVERGREEN LN	---
STA 163+70 - STA 254+25	9,055
GAP 15DR & EMBER AVE	---
STA 258+50 - STA 270+65	1,215
GAP EMBER DR	---
STA 274+65 - STA 307+75	3,310
GAP CTH J	---
STA 314+25 - STA 353+00	3,875
GAP MINT DR & OAK DR	---
STA 359+70 - STA 397+08	3,738
GAP SHORT DR	---
STA 401+08 - STA 410+16	908
GAP EAGLE CT	---
STA 414+16 - STA 427+35	1,319
GAP EAGLE CT	---
STA 431+35 - STA 453+43	2,208
GAP C.E. LT & DUNN LN	---
STA 458+20 - STA 493+90	3,570
GAP 15TH & EAGLE RD	---
STA 497+90 - STA 521+57	2,367
GAP MECAN RIVER BRIDGE B-39-4	---
STA 522+30 - STA 533+50	1,120
GAP DUCK CREEK RD & CTH E	---
STA 537+58 - STA 586+37	4,879
GAP CTH E	---
STA 590+37 - STA 599+80	943
GAP DOVER AVE	---
STA 603+80 - STA 655+30	5,150
GAP DIXIE AVE	---
STA 659+30 - STA 682+76	2,346
GAP DEERBORN DR	---
STA 686+76 - STA 773+60	8,684
TOTAL	60,715

CONCRETE CURB & GUTTER

LOCATION	601.0557 6-INCH SLOPED 36-INCH TYPE D LF	REMARKS
STH 22 & CTH J INTERSECTION	99	SE QUADRANT
STH 22 & CTH J INTERSECTION	65	SW QUADRANT
STH 22 & CTH J INTERSECTION	92	NW QUADRANT
STH 22 & CTH J INTERSECTION	66	NE QUADRANT
TOTAL	322	

MGS GUARDRAIL 3

STATION - STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
519+64 RT - 521+57 RT	STH 22/MECAN RIVER BRIDGE	100	39.4	1
522+28 RT - 523+71 RT	STH 22/MECAN RIVER BRIDGE	50	39.4	1
520+14 LT - 521+57 LT	STH 22/MECAN RIVER BRIDGE	50	39.4	1
522+28 LT - 524+21 LT	STH 22/MECAN RIVER BRIDGE	100	39.4	1
	TOTALS	300	157.6	4

MAINLINE CROSS DRAINS FOR CULVERT PIPE REPAIR WORK

STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	CULVERT PIPE REINFORCED CONCRETE CLASS III 522.0118 18-INCH LF	522.0124 24-INCH LF	522.0130 30-INCH LF	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 522.1018 18-INCH EACH	522.1024 24-INCH EACH	522.1030 30-INCH EACH	CULVERT PIPE SALVAGED 524.0118 18-INCH LF	CULVERT PIPE SALVAGED 524.0124 24-INCH LF	* JOINT TIES EACH	* GEOTEXTILE FABRIC TYPE HR SY
STA 178+10	RT	1	---	18	---	---	1	---	---	---	8	8
STA 178+10	LT	1	---	6	---	---	1	---	---	---	4	4
STA 317+20	RT	1	---	6	---	---	1	---	---	12	8	8
STA 317+20	LT	1	---	6	---	---	1	---	---	12	8	8
STA 370+60	LT	1	---	6	---	---	1	---	---	---	4	4
STA 394+60	RT	1	---	6	---	---	1	---	---	---	4	4
STA 394+60	LT	1	---	6	---	---	1	---	---	6	6	6
STA 450+18	RT	1	---	---	12	---	---	1	---	---	6	9
STA 450+18	LT	1	---	---	6	---	---	1	---	---	4	6
STA 547+00	RT	1	---	6	---	---	1	---	---	6	6	6
STA 547+00	LT	1	---	6	---	---	1	---	---	---	4	4
STA 675+00	RT	1	6	---	---	1	---	---	---	---	4	4
STA 675+00	LT	1	6	---	---	1	---	---	12	---	8	8
STA 739+90	RT	1	---	6	---	---	1	---	---	12	8	8
STA 739+90	LT	1	---	6	---	---	1	---	---	---	4	4
	TOTALS	15	12	78	18	2	11	2	12	48	86	91

* FOR INFORMATIONAL PURPOSES ONLY

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REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

STATION - STATION	LOCATION	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF
STA 62+94 BEGIN PROJECT - STA 521+57 B-39-4	CL	45,863
STA 522+30 B-39-4 - STA 777+42 END PROJECT	CL	25,512
	TOTAL	71,375

SILT FENCE

STATION - STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF	REMARKS
STA 10'J'+00 - STA 14'J'+00	RT	405	405	CTH J
STA 10'J'+00 - STA 15'J'+75	LT	550	550	CTH J
STA 16'J'+50 - STA 314+25	LT	395	395	CTH J INTERSECTION
STA 21'J'+50 - STA 26'J'+25	RT	460	460	CTH J
STA 21'J'+50 - STA 25'J'+50	LT	400	400	CTH J
STA 178+10	RT	30	30	CULVERT
STA 317+20	LT	30	30	CULVERT
STA 370+60	RT	30	30	CULVERT
STA 394+60	RT	30	30	CULVERT
STA 450+18	RT	30	30	CULVERT
STA 518+20 - STA 521+65	RT	366	366	GUARDRAIL WIDENING
STA 518+70 - STA 521+65	LT	325	325	GUARDRAIL WIDENING
STA 522+21 - STA 525+48	RT	354	354	GUARDRAIL/ACCESS DRIVE
STA 522+21 - STA 525+36	LT	350	350	GUARDRAIL WIDENING
STA 547+00	LT	30	30	CULVERT
STA 675+00	LT	30	30	CULVERT
STA 739+90	LT	30	30	CULVERT
	TOTALS	3845	3845	

WATER

LOCATION	624.0100 MGAL	REMARKS
PROJECT	32	BASE AGGREGATE DENSE
TOTAL	32	

REMOVING DELINEATORS AND MARKERS

STATION	LOCATION	204.0180 EACH
STA 75+12	LT	1
STA 96+20	RT/LT	2
STA 109+28	RT/LT	2
STA 129+64	RT/LT	2
STA 178+10	RT/LT	2
STA 210+12	RT/LT	2
STA 218+64	RT/LT	2
STA 227+30	RT/LT	2
STA 253+65	RT/LT	2
STA 259+98	RT/LT	2
STA 317+20	RT/LT	2
STA 342+00	RT/LT	2
STA 370+60	RT/LT	2
STA 394+60	RT/LT	2
STA 450+18	RT/LT	2
STA 483+10	RT/LT	2
STA 547+00	RT/LT	2
STA 563+00	RT/LT	2
STA 573+00	RT/LT	2
STA 600+00	RT/LT	2
STA 636+00	LT	1
STA 647+00	RT/LT	2
STA 675+00	RT/LT	2
STA 696+90	RT/LT	2
STA 739+90	RT/LT	2
	TOTAL	48

MARKERS CULVERT END

STATION	LOCATION	633.5200 EACH
STA 63+35	RT/LT	2
STA 75+12	RT/LT	2
STA 96+20	RT/LT	2
STA 109+28	RT/LT	2
STA 129+64	RT/LT	2
STA 178+10	RT/LT	2
STA 210+12	RT/LT	2
STA 218+64	RT/LT	2
STA 227+30	RT/LT	2
STA 253+65	RT/LT	2
STA 259+98	RT/LT	2
STA 279+90	RT/LT	2
STA 317+20	RT/LT	2
STA 342+00	RT/LT	2
STA 370+60	RT/LT	2
STA 383+20	RT/LT	2
STA 394+60	RT/LT	2
STA 450+18	RT/LT	2
STA 483+10	RT/LT	2
STA 547+00	RT/LT	2
STA 563+00	RT/LT	2
STA 573+00	RT/LT	2
STA 600+00	RT/LT	2
STA 636+00	RT/LT	2
STA 647+00	RT/LT	2
STA 675+00	RT/LT	2
STA 696+90	RT/LT	2
STA 739+90	RT/LT	2
	TOTAL	56

3

TOPSOIL, MULCHING, FERTILIZER, AND SEEDING

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	REMARKS
STA 307+25 RT - STA 26'J'+25 RT	RT	2630	2630	1.66	71	CTH J INTERSECTION
STA 26'J'+25 LT - STA 313+25 RT	LT - RT	3820	3820	2.41	103	CTH J INTERSECTION
STA 307+25 LT - STA 10'J'+00 RT	LT - RT	2380	2380	1.50	64	CTH J INTERSECTION
STA 10'J'+00 RT - STA 314+25 LT	RT - LT	2340	2340	1.47	63	CTH J INTERSECTION
STA 518+25 - STA 521+60	RT	565	---	0.36	15	GUARDRAIL WIDENING
STA 518+75 - STA 521+60	LT	535	---	0.34	14	GUARDRAIL WIDENING
STA 522+26 - STA 525+31	LT	595	---	0.37	16	GUARDRAIL WIDENING
STA 522+26 - STA 523+37	RT	215	---	0.14	6	GUARDRAIL/ACCESS DRIVE
STA 522+84 - STA 525+36	RT	535	---	0.34	14	GUARDRAIL/ACCESS DRIVE
STA 79+97 - STA 307+25	RT & LT	---	---	13.00	363	SHOULDERS
	TOTALS	13615	11170	21.59	729	

MOBILIZATIONS EROSION CONTROL

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT	4	2
TOTALS	4	2

EROSION MAT

STATION - STATION	628.2002 CLASS I TYPE A SY	628.2027 CLASS II TYPE C SY
STA 307+25 RT - STA 21'J'+50 RT	309	---
STA 308+50 LT - STA 14'J'+00 RT	220	---
STA 15'J'+75 LT - STA 16'J'+50 LT	42	---
STA 25'J'+50 LT - STA 26'J'+00 LT	22	---
STA 518+25 RT - STA 521+60 RT	---	565
STA 518+75 LT - STA 521+60 LT	---	535
STA 522+26 RT - STA 523+37 RT	---	215
STA 522+84 RT - STA 525+36 RT	---	450
STA 522+26 LT - STA 525+31 LT	---	595
TOTALS	593	2360

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 CULVERT PIPE CHECKS EACH
UNDISTRIBUTED	---	30
	TOTAL	30

ROCK BAGS

STATION	LOCATION	628.7570 ROCK BAGS EACH	REMARKS
11BL+50	RT	8	FOR SILT FENCE RELIEFS
UNDISTRIBUTED	---	40	FOR SILT FENCE RELIEFS
	TOTAL	48	

SIGN LISTING

SIGN NO.	SIGN CODE	MESSAGE	SIZE INCHES	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	633.0100 DELINEATOR STEEL POSTS 10-FT EACH	POSTS WOOD 4" X 6" 634.0612 12-FT EACH	634.0614 14-FT EACH	634.0616 16-FT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1-1	R2-1	SPEED LIMIT 35	24"X30"	5.00	---	---	---	1	---	1	1	
1-2	R2-1	SPEED LIMIT 25	24"X30"	5.00	---	---	---	1	---	1	1	
1-3	W2-1	INTERSECTION	30"X30"	---	6.25	---	---	1	---	1	1	
1-4	I2-1	WAUTOMA	72"X15"	7.50	---	---	---	2	---	1	2	
1-5	R2-1	SPEED LIMIT 35	24"X30"	5.00	---	---	---	1	---	1	1	
1-6	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	FOREST LN (EAST)
1-7	R59-51	STOP SCHOOL BUS FLASHING RED LIGHTS	36"X36"	9.00	---	---	---	1	---	1	1	
1-8	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	FOREST LN (WEST)
1-9	D1-2	RANGER STATION	24"X54"	9.00	---	---	---	---	1	1	1	
1-10	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	---	1	1	---	SAME POST AS 1-9
1-11	I2-3	MONTELLO	60"X24"	10.00	---	---	---	2	---	1	2	
1-12	R2-1	SPEED LIMIT 35	24"X30"	5.00	---	---	---	1	---	1	1	
1-13	R2-1	SPEED LIMIT 55	24"X30"	5.00	---	---	---	1	---	1	1	
1-14	W3-5	REDUCED SPEED LIMIT 35	36"X36"	---	9.00	---	---	1	---	1	1	
1-15	D1-2	RANGER STATION	24"X54"	9.00	---	---	---	2	---	1	1	
1-16	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	FERN AVE
2-1	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	BRENTWOOD WAY
2-2	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
2-3	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	EVERGREEN LN
2-4	I55-56	MONTELLO HIGH SCHOOL FFA AGRICULTURE	30"X36"	7.50	---	---	---	1	---	1	1	ADOPT-A-HIGHWAY
2-5	I55-56	OUR HOUSE & MEDVAN TRANSPORT	30"X36"	7.50	---	---	---	1	---	1	1	ADOPT-A-HIGHWAY
3-1	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
3-2	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
3-3	W11-5	FARM TRACTOR	30"X30"	---	6.25	---	---	1	---	1	1	
3-4	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
3-5	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
4-1	S3-1	SCHOOL BUS STOP AHEAD	36"X36"	---	9.00	---	---	1	---	1	1	
4-2	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	15TH RD
4-3	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	EMBER AVE
4-4	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	---	SAME POST AS 4-5
4-5	I55-56	OUR HOUSE & MEDVAN TRANSPORT	30"X36"	7.50	---	---	---	1	---	1	1	ADOPT-A-HIGHWAY
4-6	I55-56	THE PEOPLES CHURCH MONTELLO, WI	30"X36"	7.50	---	---	---	1	---	1	1	ADOPT-A-HIGHWAY
4-7	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	---	SAME POST AS 4-6
4-8	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	EMBER DR
4-9	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
4-10	---	REVERSE CURVE ARROW	---	---	---	---	---	---	---	1	1	REMOVE ONLY
4-11	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	

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SIGN LISTING

SIGN NO.	SIGN CODE	MESSAGE	SIZE INCHES	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	633.0100 DELINEATOR STEEL POSTS 10-FT EACH	POSTS WOOD 4" X 6" 634.0612 12-FT EACH	634.0614 14-FT EACH	634.0616 16-FT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
5-1	J1-1	JCT , COUNTY J	24"X39"	6.50	---	---	---	1	---	1	1	
5-2	D1-2	HARRISVILLE/PRINCETON	78"X30"	16.25	---	---	---	2	---	1	2	
5-3	J4-1	SOUTH, 22	24"X36"	6.00	---	---	---	1	---	---	---	
5-4	J13-1	COUNTY J, DOUBLE ARROW	24"X45"	7.50	---	---	---	1	---	1	1	
5-5	R1-1	STOP	36"X36"	7.46	---	---	---	1	---	---	---	ON CTH J
5-6		KEEP RIGHT	---	---	---	---	---	---	---	1	1	ON CTH J ISLAND, REMOVE ONLY
5-7		DOUBLE DOWN ARROW	---	---	---	---	---	---	---	1	1	ON CTH J ISLAND, REMOVE ONLY
5-8		STOP	---	---	---	---	---	---	---	1	1	ON CTH J ISLAND, REMOVE ONLY
5-9	R1-1	STOP	36"X36"	7.46	---	---	---	1	---	---	---	ON CTH J
5-10		STOP	---	---	---	---	---	---	---	1	1	ON CTH J ISLAND, REMOVE ONLY
5-11		DOUBLE DOWN ARROW	---	---	---	---	---	---	---	1	1	ON CTH J ISLAND, REMOVE ONLY
5-12		KEEP RIGHT	---	---	---	---	---	---	---	1	1	ON CTH J ISLAND, REMOVE ONLY
5-13	J13-1	COUNTY J, DOUBLE ARROW	24"X45"	7.50	---	---	---	1	---	1	1	
5-14		STOP	---	---	---	---	---	---	---	1	1	ON CTH J, REMOVE ONLY
5-15	J4-1	NORTH, 22	24"X36"	6.00	---	---	---	1	---	1	1	
5-16	D1-2	PRINCETON/HARRISVILLE	78"X30"	16.25	---	---	---	2	---	1	2	
5-17	J1-1	JCT , COUNTY J	24"X39"	6.50	---	---	---	1	---	1	1	
5-18	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
5-19		REVERSE CURVE ARROW	---	---	---	---	---	---	---	1	1	REMOVE ONLY
5-20	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
5-21	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	OAK DR
6-1	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
6-2	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
6-3	I55-56	THE PEOPLES CHURCH MONTELLO, WI	30"X36"	7.50	---	---	---	1	---	1	1	
6-4	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	EAGLE CT
7-1	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	EAGLE RD
7-2	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
7-3	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	DUNN LN
7-4	I55-56	HCHY VOLUNTEERS	30"X36"	7.50	---	---	---	1	---	1	1	

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SIGN LISTING

SIGN NO.	SIGN CODE	MESSAGE	SIZE INCHES	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	633.0100 DELINEATOR STEEL POSTS 10-FT EACH	POSTS WOOD 4" X 6" 634.0612 12-FT EACH	634.0614 14-FT EACH	634.0616 16-FT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
8-1	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	15TH DR
8-2	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	EAGLE RD
8-3	W5-2	NARROW BRIDGE	36"X36"	---	9.00	---	---	1	---	1	1	
8-4	W5-52L	BRIDGE HASH MARKS	12"X36"	---	3.00	1	---	---	---	1	1	B-39-4 MECAN RIVER BRIDGE
8-5	W5-52R	BRIDGE HASH MARKS	12"X36"	---	3.00	1	---	---	---	1	1	B-39-4 MECAN RIVER BRIDGE
8-6	I3-1	MECAN RIVER	42"X24"	7.00	---	---	1	---	---	1	1	MECAN RIVER BRIDGE
8-7	I3-1	MECAN RIVER	42"X24"	7.00	---	---	1	---	---	---	---	MECAN RIVER BRIDGE
8-8	W5-52R	BRIDGE HASH MARKS	12"X36"	---	3.00	1	---	---	---	1	1	B-39-4 MECAN RIVER BRIDGE
8-9	W5-52L	BRIDGE HASH MARKS	12"X36"	---	3.00	1	---	---	---	1	1	B-39-4 MECAN RIVER BRIDGE
8-10	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
8-11	J1-1	JCT, COUNTY E	24"X39"	6.50	---	---	---	1	---	1	1	
8-12	J4-1	SOUTH, 22	24"X36"	6.00	---	---	---	1	---	1	1	
8-13	W5-2	NARROW BRIDGE	36"X36"	---	9.00	---	---	1	---	1	1	
8-14	D1-1	WESTFIELD/LEFT ARROW	66"X15"	6.88	---	---	2	---	---	1	2	
9-1	J13-1	COUNTY E, AHEAD AND LEFT ARROW	24"X45"	7.50	---	---	---	1	---	1	1	
9-2	J13-1	22, DOUBLE ARROW	24"X45"	7.50	---	---	---	1	---	---	---	CTH E WEST
9-3	R1-1	STOP	36"X36"	7.46	---	---	---	1	---	1	1	CTH E WEST
9-4	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	DUCK CREEK RD
9-5	J13-1	COUNTY E, RIGHT ARROW	24"X45"	7.50	---	---	---	1	---	1	1	
9-6	J4-1	NORTH, 22	24"X36"	6.00	---	---	---	1	---	---	---	
9-7	D1-1	WESTFIELD/RIGHT ARROW	66"X15"	6.88	---	---	2	---	---	1	2	
9-8	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
9-9	J12-1	COUNTY E, RIGHT TURN ARROW	24"X45"	7.50	---	---	---	1	---	1	1	
9-10	J12-1	COUNTY E, RIGHT TURN ARROW	24"X45"	7.50	---	---	---	1	---	1	1	
9-11	D1-1	NESHKORO/RIGHT ARROW	72"X15"	7.50	---	---	2	---	---	1	2	
9-12	I55-56	HCHY VOLUNTEERS	30"X36"	7.50	---	---	---	1	---	1	1	ADOPT-A-HIGHWAY
9-13	J4-1	SOUTH, 22	24"X36"	6.00	---	---	---	1	---	1	1	
9-14	J13-1	COUNTY E, RIGHT ARROW	24"X45"	7.50	---	---	---	1	---	1	1	
9-15	W1-7	DOUBLE NIGHT ARROW	48"X24"	---	8.00	---	---	1	---	1	1	
9-16	R1-1	STOP	36"X36"	7.46	---	---	---	1	---	1	1	CTH E EAST
9-17	J31-1	COUNTY E, AHEAD AND LEFT ARROW	24"X45"	7.50	---	---	---	1	---	1	1	
9-18	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
9-19	J13-1	22, DOUBLE ARROW	24"X45"	8	---	---	---	1	---	---	---	CTH E EAST
9-20	J4-1	NORTH, 22	24"X36"	6.00	---	---	---	1	---	1	1	
9-21	D1-1	NESHKORO/LEFT ARROW	72"X15"	7.50	---	---	2	---	---	1	2	

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SIGN LISTING

SIGN NO.	SIGN CODE	MESSAGE	SIZE INCHES	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	633.0100 DELINEATOR STEEL POSTS 10-FT EACH	POSTS WOOD 4" X 6" 634.0612 12-FT EACH	634.0614 14-FT EACH	634.0616 16-FT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
10-1	J1-1	JCT , COUNTY E	24"X39"	6.50	---	---	---	1	---	1	1	
10-2	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	DOVER AVE
10-3		DEER CROSSING, NEXT 5 MILES	---	---	---	---	---	---	---	1	1	REMOVE ONLY
10-4	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
10-5	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
10-6	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
11-1	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	DIXIE AVE
11-2	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
11-3	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	DEERBORN DR WEST
11-4	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	DEERBORN DR EAST
11-5	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
11-6	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
12-1		DEER CROSSING, NEXT 5 MILES	---	---	---	---	---	---	---	1	---	REMOVE ONLY
12-2	W14-3	NO PASSING ZONE	48"X36"	---	6.00	---	---	1	---	1	1	
12-3	J1-1	JCT , COUNTY JJ	24"X39"	6.50	---	---	---	1	---	1	1	
12-4	D1-1	LT ARROW	60"X15"	6.25	---	---	---	2	---	1	2	
12-5	J4-1	SOUTH, 22	24"X36"	6.00	---	---	---	1	---	1	1	
12-6	J13-1	CTH JJ, LEFT ARROW	24"X45"	7.50	---	---	---	1	---	1	1	
12-7	I2-2	MARQUETTE CO	78"X15"	8.12	---	---	---	2	---	1	2	
12-8	J13-1	22, DOUBLE ARROW	24"X45"	7.50	---	---	---	1	---	---	---	CTH JJ
12-9	R1-1	STOP	36"X36"	7.46	---	---	---	1	---	1	1	CTH JJ
12-10	R1-1	STOP	30"X30"	5.18	---	---	---	1	---	1	1	DAKOTA AVE
12-11	I2-2	WAUSHARA CO	72"X15"	7.50	---	---	---	2	---	1	2	
12-12	J13-1	CTH JJ, RT ARROW	24"X45"	7.50	---	---	---	1	---	1	1	
13-1	J1-1	JCT, 22	24"X39"	6.50	---	---	---	1	---	1	1	ON CTY J WEST
13-2	W3-1	STOP AHEAD	36"X36"	---	9.00	---	---	1	---	1	1	ON CTY J WEST
13-3	W3-2	STOP AHEAD	36"X36"	---	9.00	---	---	1	---	1	1	ON CTY J WEST
13-4	W3-3	STOP AHEAD	36"X36"	---	9.00	---	---	1	---	1	1	ON CTY J EAST
13-5	W3-4	STOP AHEAD	36"X36"	---	9.00	---	---	1	---	1	1	ON CTY J EAST
13-6	J1-1	JCT, STH 22	24"X39"	6.50	---	---	---	1	---	1	1	ON CTY J EAST
13-7	J13-1	STH 22, DOUBLE ARROW	24"X45"	7.50	---	---	---	1	---	---	---	
13-8	J13-1	STH 22, DOUBLE ARROW	24"X45"	7.50	---	---	---	1	---	---	---	
		TOTALS		560.03	254.50	4	10	118	2	123	130	

PAVEMENT MARKING EPOXY

STATION - STATION	LOCATION	646.0106 4-INCH CENTER LINE (YELLOW) LF	646.0106 4-INCH 3 FT MINI DASH (WHITE) LF	646.0126 8-INCH CHANNELIZATION (WHITE) LF	646.0406 SAME DAY 4-INCH (YELLOW) LF	647.0566 STOP LINE 18-INCH (WHITE) LF	646.2304.S GROOVED WET REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE) LF	REMARKS
62+93 - 72+00	CL	907	---	---	907	---	---	SB NO-PASSING
62+93 - 163+00	CL	2,502	---	---	2,502	---	---	CL SKIPS
151+00 - 163+00	CL	1,200	---	---	1,200	---	---	NB NO-PASSING
163+00 - 174+70	CL	2,340	---	---	2,340	---	---	DOUBLE YELLOW
174+70 - 188+23	CL	1,353	---	---	1,353	---	---	SB NO-PASSING
174+70 - 202+19	CL	688	---	---	688	---	---	CL SKIPS
188+61 - 202+19	CL	1,358	---	---	1,358	---	---	NB NO-PASSING
202+19 - 215+90	CL	2,742	---	---	2,742	---	---	DOUBLE YELLOW
215+90 - 229+28	CL	335	---	---	335	---	---	CL SKIPS
215+90 - 229+28	CL	1,338	---	---	1,338	---	---	SB NO-PASSING
229+28 - 229+77	CL	98	---	---	98	---	---	DOUBLE YELLOW
229+77 - 240+70	CL	274	---	---	274	---	---	CL SKIPS
229+77 - 240+70	CL	1,093	---	---	1,093	---	---	NB NO-PASSING
240+70 - 246+48	CL	1,156	---	---	1,156	---	---	DOUBLE YELLOW
246+48 - 258+00	CL	1,152	---	---	1,152	---	---	SB NO-PASSING
246+48 - 258+00	CL	288	---	---	288	---	---	CL SKIPS
258+00 - 258+45	CL	90	---	---	90	---	---	DOUBLE YELLOW
258+45 - 270+04	CL	270	---	---	270	---	---	CL SKIPS
258+45 - 270+04	CL	1,159	---	---	1,159	---	---	NB NO-PASSING
270+28 - 275+00	CL	944	---	---	944	---	---	DOUBLE YELLOW
275+00 - 305+61	CL	766	---	---	766	---	---	CL SKIPS
275+00 - 288+19	CL	1,319	---	---	1,319	---	---	SB NO-PASSING
292+90 - 305+61	CL	1,271	---	---	1,271	---	---	NB NO-PASSING
305+61 - 328+80	CL	4,638	---	---	4,638	---	---	DOUBLE YELLOW
328+80 - 349+40	CL	2,060	---	---	2,060	---	---	SB NO-PASSING
328+80 - 392+49	CL	1,592	---	---	1,592	---	---	CL SKIPS
349+00 - 361+00	CL	1,200	---	---	1,200	---	---	NB NO-PASSING
362+50 - 374+00	CL	1,150	---	---	1,150	---	---	SB NO-PASSING
378+30 - 392+49	CL	1,419	---	---	1,419	---	---	NB NO-PASSING
392+49 - 435+29	CL	8,560	---	---	8,560	---	---	DOUBLE YELLOW
435+29 - 448+30	CL	1,301	---	---	1,301	---	---	SB NO-PASSING
435+29 - 536+58	CL	2,532	---	---	2,532	---	---	CL SKIPS
525+00 - 536+58	CL	1,158	---	---	1,158	---	---	NB NO-PASSING

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PAVEMENT MARKING EPOXY

STATION - STATION	LOCATION	646.0106 4-INCH CENTER LINE (YELLOW) LF	646.0106 4-INCH 3 FT MINI DASH (WHITE) LF	646.0126 8-INCH CHANNELIZATION (WHITE) LF	646.0406 SAME DAY 4-INCH (YELLOW) LF	647.0566 STOP LINE 18-INCH (WHITE) LF	646.2304.S GROOVED WET REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE) LF	REMARKS
536+58 - 544+50	CL	792	---	---	792	---	---	SB NO-PASSING
536+58 - 602+89	CL	1,658	---	---	1,658	---	---	CL SKIPS
591+00 - 602+89	CL	1,189	---	---	1,189	---	---	NB NO-PASSING
602+89 - 616+62	CL	343	---	---	343	---	---	CL SKIPS
604+35 - 616+62	CL	1,227	---	---	1,227	---	---	SB NO-PASSING
616+62 - 617+48	CL	172	---	---	172	---	---	DOUBLE YELLOW
617+48 - 625+51	CL	803	---	---	803	---	---	NB NO-PASSING
617+48 - 625+51	CL	201	---	---	201	---	---	CL SKIPS
625+51 - 628+75	CL	648	---	---	648	---	---	DOUBLE YELLOW
628+75 - 644+30	CL	1,555	---	---	1,555	---	---	SB NO-PASSING
628+75 - 671+70	CL	1,074	---	---	1,074	---	---	CL SKIPS
658+50 - 671+76	CL	1,320	---	---	1,320	---	---	NB NO-PASSING
671+70 - 682+83	CL	2,226	---	---	2,226	---	---	DOUBLE YELLOW
682+83 - 695+37	CL	1,254	---	---	1,254	---	---	SB NO-PASSING
682+83 - 711+34	CL	713	---	---	713	---	---	CL SKIPS
698+52 - 711+34	CL	1,282	---	---	1,282	---	---	NB NO-PASSING
711+34 - 722+00	CL	2,132	---	---	2,132	---	---	DOUBLE YELLOW
722+00 - 734+30	CL	1,230	---	---	1,230	---	---	SB NO-PASSING
722+00 - 777+41	CL	1,385	---	---	1,385	---	---	CL SKIPS
62+97 - 68+82	RT	---	---	---	---	---	585	SOLID
69+70 - 256+30	RT	---	---	---	---	---	18,648	SOLID
257+13 - 272+04	RT	---	---	---	---	---	1,491	SOLID
273+13 - 307+85	RT	---	---	---	---	---	3,472	SOLID
312+84 - 398+52	RT	---	---	---	---	---	8,568	SOLID
399+52 - 455+70	RT	---	---	---	---	---	5,618	SOLID
456+70 - 495+40	RT	---	---	---	---	---	3,870	SOLID
496+40 - 535+00	RT	---	---	---	---	---	3,860	SOLID
536+00 - 587+87	RT	---	---	---	---	---	5,187	SOLID
588+87 - 684+02	RT	---	---	---	---	---	9,515	SOLID
685-09 - 774+75	RT	---	---	---	---	---	8,966	SOLID
776+09 - 777+42	RT	---	---	---	---	---	133	SOLID
62+97 - 70+53	LT	---	---	---	---	---	756	SOLID
71+53 - 92+80	LT	---	---	---	---	---	2,127	SOLID

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PAVEMENT MARKING EPOXY

STATION - STATION	LOCATION	646.0106 4-INCH CENTER LINE (YELLOW) LF	646.0106 4-INCH 3 FT MINI DASH (WHITE) LF	646.0126 8-INCH CHANNELIZATION (WHITE) LF	646.0406 SAME DAY 4-INCH (YELLOW) LF	647.0566 STOP LINE 18-INCH (WHITE) LF	646.2304.S GROOVED WET REFLECTIVE EPOXY 4-INCH EDGE LINE (WHITE) LF	REMARKS
93+80 - 137+10	LT	---	---	---	---	---	4,330	SOLID
138+10 - 161+20	LT	---	---	---	---	---	2,310	SOLID
162+20 - 255+65	LT	---	---	---	---	---	9,345	SOLID
256+65 - 309+30	LT	---	---	---	---	---	5,265	SOLID
313+25 - 411+45	LT	---	---	---	---	---	9,820	SOLID
412+45 - 428+86	LT	---	---	---	---	---	1,641	SOLID
429+86 - 495+40	LT	---	---	---	---	---	6,554	SOLID
496+40 - 535+08	LT	---	---	---	---	---	3,868	SOLID
536+08 - 601+28	LT	---	---	---	---	---	6,520	SOLID
602+28 - 656+80	LT	---	---	---	---	---	5,452	SOLID
657+80 - 684+39	LT	---	---	---	---	---	2,659	SOLID
685+38 - 773+95	LT	---	---	---	---	---	8,857	SOLID
777+12 - 777+42	LT	---	---	---	---	---	30	SOLID
71+00	LT	---	---	---	---	18	---	FOREST LANE
311+00	LT	---	---	---	---	20	---	CTH J
311+20	RT	---	---	---	---	20	---	CTH J
10'J'+00 - 16'J'+83	LT	---	---	---	---	---	683	CTH J, SOLID
10'J'+00 - 16'J'+79	RT	---	---	---	---	---	679	CTH J, SOLID
18'J'+45 - 26'J'+25	LT	---	---	---	---	---	780	CTH J, SOLID
17'J'+92 - 26'J'+25	RT	---	---	---	---	---	833	CTH J, SOLID
10'J'+00 - 17'J'+35	CL, CTH J	1,470	---	---	---	---	---	DOUBLE YELLOW
17'J'+92 - 26'J'+25	CL, CTH J	1,666	---	---	---	---	---	DOUBLE YELLOW
311+70 - 312+70	LT	---	---	100	---	---	---	CTH J, SOLID
309+28 - 310+30	RT	---	---	102	---	---	---	CTH J, SOLID
309+35 - 311+70	LT	---	59	---	---	---	---	CTH J, 3FT DASH
310+30 - 312+84	RT	---	64	---	---	---	---	CTH J, 3FT DASH
TOTALS		74,593	123	202	71,457	58	142,422	
		74,716						

3

TEMPORARY PAVEMENT MARKING

STATION - STATION	LOCATION	649.0402 PAINT 4-INCH (YELLOW) LF	REMARKS
STA 62+94 - STA 777+42	CL	5710	MAINLINE MILLED ASPH SURFACE - 4 FT SKIPS
	TOTAL	5710	

TRAFFIC CONTROL

	TRAFFIC CONTROL PROJECT EACH	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.0900 SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.0310.S TEMPORARY PORTABLE RUMBLE STRIPS LS	REMARKS
	1	200	---	---	1716	33	1	PROJECT
	---	320	520	208	364	87	---	FOR CTH J CLOSURE
	---	---	---	---	120	---	---	TEMP SIGNS FOR MAINLINE MILLED ASPH SURFACE
TOTALS	1	520	520	208	2200	120	1	

3

CONSTRUCTION STAKING

STATION - STATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB & GUTTER LF	650.8000 RESURFACING REFERENCE LF	650.9910 SUPPLEMENTAL CONTROL (6150-01-76) LS	650.9920 SLOPE STAKES LF	REMARKS
STA 62+94 - STA 777+42	---	---	---	71448	1	---	PROJECT LIMITS
STA 307+25 - STA 310+50	325	325	---	---	---	325	MAINLINE AT CTH J
STA 311+50 - STA 314+25	275	275	---	---	---	275	MAINLINE AT CTH J
STA 10'J'+00 - STA 17'J'+00	700	700	---	---	---	700	CTH J
STA 18'J'+50 - STA 26'J'+00	750	750	---	---	---	750	CTH J
STH 22 & CTH J INTERSECTION	---	---	99	---	---	---	SE QUADRANT
STH 22 & CTH J INTERSECTION	---	---	65	---	---	---	SW QUADRANT
STH 22 & CTH J INTERSECTION	---	---	92	---	---	---	NW QUADRANT
STH 22 & CTH J INTERSECTION	---	---	66	---	---	---	NE QUADRANT
STA 518+50 - STA 521+55	305	305	---	---	---	305	GUARDRAIL WIDENING
STA 522+32 - STA 525+25	293	293	---	---	---	293	GUARDRAIL WIDENING
STA 10+00 - STA 11+95	195	195	---	---	---	195	CANOE ACCESS DRIVE
TOTALS	2843	2843	322	71448	1	2843	

SAWING ASPHALT

690.0100

STATION	LOCATION	LF	REMARKS
62+94	CL	48	BEGIN PROJECT - BUTT JOINT
178+10	RT	36	CULVERT PIPE REPAIR WORK
307+25 - 314+25	RT	700	CTH J RECONSTRUCT
307+25 - 314+25	LT	700	CTH J RECONSTRUCT
10'J'+00	CL	22	CTH J
26'J'+25	CL	22	CTH J
317+20	CL	56	CULVERT PIPE REPAIR WORK
370+60	LT	36	CULVERT PIPE REPAIR WORK
394+60	LT	36	CULVERT PIPE REPAIR WORK
450+18	RT	37	CULVERT PIPE REPAIR WORK
547+00	RT	36	CULVERT PIPE REPAIR WORK
675+00	LT	36	CULVERT PIPE REPAIR WORK
739+90	RT	36	CULVERT PIPE REPAIR WORK
777+42	CL	28	END PROJECT - BUTT JOINT
	TOTAL	1828	

3

GRADING, SHAPING, AND FINISHING CULVERT PIPE ENDS

STATION	LOCATION	SPV.0060.01 GRADING, SHAPING AND FINISHING CULVERT PIPE ENDS EACH	* TOPSOIL SY	* URBAN CLASS I TYPE B SY	* FERTILIZER TYPE B CWT	* SEEDING MIXTURE NO. 30 LB
STA 178+10	RT	1	8	8	0.01	0.14
STA 178+10	LT	1	8	8	0.01	0.14
STA 317+20	RT	1	8	8	0.01	0.14
STA 317+20	LT	1	8	8	0.01	0.14
STA 370+60	LT	1	5	5	0.01	0.09
STA 394+60	RT	1	8	8	0.01	0.14
STA 394+60	LT	1	8	8	0.01	0.14
STA 450+18	RT	1	18	18	0.02	0.32
STA 450+18	LT	1	5	5	0.01	0.09
STA 547+00	RT	1	6	6	0.01	0.11
STA 547+00	LT	1	6	6	0.01	0.11
STA 675+00	RT	1	3	3	0.01	0.10
STA 675+00	LT	1	3	3	0.01	0.10
STA 739+90	RT	1	8	8	0.01	0.14
STA 739+90	LT	1	8	8	0.01	0.14
	TOTALS	15	110	110	0.2	2

* FOR INFORMATIONAL PURPOSES ONLY

SEALING TOP OF PIPE AREA

STATION	LOCATION	SPV.0180.01 SEALING TOP OF PIPE AREA SY	* BACKFILL GRANULAR GRADE 2 CY	* BASE AGGREGATE DENSE 3/4-INCH (CRUSHED STONE) TON	* BASE AGGREGATE DENSE 1 1/4-INCH TON	* ASPHALTIC SURFACING PATCHING TON	* GEOTEXTILE FABRIC TYPE HR SY	* EMULSIFIED ASPHALT CRS 2 SY
STA 383+20	LT	23	18	8	10	4	23	23
	TOTALS	23	18	8	10	4	23	23

* FOR INFORMATIONAL PURPOSES ONLY

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 6150-01-26 - 4.01

PART OF LOT 2 CSM 3549 IN THE SE-SE OF SECTION 16, PART OF THE SW-SW OF SECTION 15, AND THE NW-NW OF SECTION 22, ALL IN TOWNSHIP 16 NORTH, RANGE 10 EAST, TOWN OF SHIELDS, MARQUETTE COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, MONTELLO - WAUTOMA (PARK STREET TO CTH JJ)

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

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

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

EXISTING MONUMENTS			
POINT NUMBER	DESCRIPTION	(Y)	(X)
PROP106	1" IRON PIPE	279615.982	478749.407
PROP107	1" IRON PIPE	279635.404	478749.458
PROP113	¾" IRON ROD	279623.235	477785.651
ERW115	¾" IRON ROD	279218.501	477787.436
PROP117	¾" IRON ROD	279620.069	477279.294
ERW21	R/W CAP	279913.144	478252.401
ERW22	R/W CAP	279818.925	478326.683

T 16 N, R 10 E, 16 15 21 22 — DK 128 — 1-1/4" IRON PIPE
County Coordinates
Y = 282230.274
X = 477786.640

ROAD NAME	BASIS OF EXISTING R/W	YEAR
STH 22	DOT PROJ. S 0272 (1)	1951
CTH J EAST	CSM 2116	1998
CTH J WEST	CSM 3549	2015

SEC562 TO PRW18 = N 00°01'19" E, 102.10'
PRW18 TO DK128 = N 00°01'19" E, 2537.89'

SE - SE SEC-16

LOT 2 C.S.M. 3549

Tax Key No.024-00406-0005

T 16 N, R 10 E, 16 21 — DK 123 — IRON PIPE
County Coordinates
Y = 279586.695
X = 475138.760

PI 10'J'+00.00
Y = 279586.832
X = 477269.947

DK123 TO T1 = N 89°55'20" E 2368.65'

C.T.H. "J"

SEC LINE N 89°55'20" E 2646.88'

SEC LINE S 0°01'19" W 2639.99' P.L.

TOWN OF SHIELDS

STA. 311+04.26
STA. 17'J'+61.56
Y = 279573.148
X = 478018.677

PI CUR SRCUR1

PI CUR SRCUR2

PI CUR SRCUR3

PI CUR SRCUR4

SEC LINE S 89°38'57" E 2643.03'

DK110 TO T2 = N 89°38'57" W, 1687.24'
T2 TO SEC562 = N 89°38'57" W, 955.79'

T 16 N, R 10 E, 16 15 21 22 — SEC 562 — IRON PIPE
County Coordinates
Y = 279590.282
X = 477785.631

T 16 N, R 10 E, 15 22 — DK 110 — IRON PIPE
County Coordinates
Y = 279574.102
X = 480428.613

Tax Key No.024-00372-0005

C.S.M. 2116

OTR 713 — 1-1/4" IRON PIPE
County Coordinates
Y = 276959.852
X = 477820.060

OTR713 TO ERW32 = N 00°45'00" W, 2258.94'

SEC LINE N 0°45'00" W 2630.65'

CURVE SRCUR1
P.I. = 12'J'+96.61
Y = 279587.706
X = 477566.556
Δ. = 8°07'20"
T. = 59.14'
L. = 118.09'
R. = 833.00'
PC = 12+37.47
PT = 13+55.56

CURVE SRCUR2
P.I. = 16'J'+14.49
Y = 279633.574
X = 477881.304
Δ. = 32°02'03"
T. = 57.41'
L. = 111.82'
R. = 200.00'
PC = 15+57.07
PT = 16+68.90

CURVE SRCUR3
P.I. = 19'J'+15.17
Y = 279511.298
X = 478159.290
Δ. = 34°02'04"
T. = 61.21'
L. = 118.80'
R. = 200.00'
PC = 18+53.96
PT = 19+72.76

CURVE SRCUR4
P.I. = 23'J'+33.74
Y = 279586.724
X = 478574.684
Δ. = 10°45'49"
T. = 78.47'
L. = 156.49'
R. = 833.00'
PC = 22+55.26
PT = 24+11.75

CURVE RLCUR8
P.I. = 309+57.39
Y = 279468.594
X = 477784.978
Δ. = 53°32'00"
D. = 4°29'59"
T. = 642.26'
L. = 1189.69'
R. = 1273.30'
P.C. = 303+15.13
Y = 278826.637
X = 477804.738
P.T. = 315+04.82

PRW??? PRW??? = LONG CHORD BEARING & LONG CHORD DIST OF CURVE

COURSE TABLE			
FROM	TO	BEARING	DIST.
SEC562	T1	S 89°55'20" W	278.23'
T1	PRW16	N 00°10'08" W	31.66'
PRW16	PRW17	N 75°43'33" E	113.51'
PRW17	PRW18	N 75°43'33" E	173.72'
PRW18	PRW19	N 75°43'33" E	28.90'
PRW19	PRW20	S 80°50'54" E	140.83'
PRW20	ERW21	N 51°46'13" E	381.46'
ERW21	ERW22	S 38°13'47" E	120.00'
ERW22	ERW23	S 06°46'13" W	200.92'
ERW23	ERW24	S 89°34'16" E	438.73'
ERW24	T2	S 00°28'20" W	31.67'
T2	ERW26	S 00°28'20" W	34.33'
ERW26	PRW27	N 89°34'16" W	88.25'
PRW27	PRW28	S 79°38'54" W	148.97'
PRW28	PRW29	S 79°38'54" W	282.50'
PRW29	PRWC1	S 79°38'54" W	189.13'
*PRWC1	*ERWC2	S 18°49'40" W	417.42'
ERWC2	ERW30	N 81°19'50" W	30.00'
ERW30	T3	N 27°14'49" W	98.06'
T3	ERW32	N 27°14'49" W	93.06'
ERW32	ERW33	N 00°45'00" W	338.70'
ERW33	SEC562	N 00°45'00" W	33.01'

POINT TABLE - STATION AND OUT		
POINT *	STATION	DIST.
CTH J		
TLE1	20+75.15	90.31'L
TLE2	24+75.00	30.73'L
TLE3	24+75.00	40.73'L

POINT TABLE - STATION AND OUT		
POINT *	STATION	DIST.
STH 22		
ERWC2	305+46.96	90.00'R
ERW30	305+46.96	60.00'R
T3	306+26.43	.00'R
ERW32	306+94.99	61.12'L
ERW33	309+80.27	191.54'L
PRWC1	309+98.49	90.00'R
SEC562	310+05.11	207.79'L
PRW20	311+50.00	113.50'L
ERW23	313+36.93	192.69'R
ERW21	315+04.82	60.00'L
ERW22	315+04.82	60.00'R

POINT TABLE - STATION AND OUT		
POINT *	STATION	DIST.
CTH J		
T1	12+37.47	2.37'L
PRW16	12+37.47	34.04'L
PRW17	13+55.56	53.88'L
ERW33	15+09.24	61.77'R
SEC562	15+13.57	29.04'R
PRW18	15+28.33	71.99'L
PRW19	15+57.07	75.00'L
PRW20	16+61.76	68.78'L
PRWC1	18+37.15	113.03'R
PRW29	19+72.76	49.80'R
ERW23	20+72.20	80.69'L
PRW28	22+55.26	49.50'R
PRW27	24+11.75	35.31'R
ERW26	25+00.00	35.25'R
ERW24	25+00.00	30.75'L
T2	25+00.00	.92'R

UTILITY INTERESTS REQUIRED			
UTILITY NUMBER	PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	3, 5	ADAMS-COLUMBIA ELECTRIC COOPERATIVE F/K/A ADAMS-MARQUETTE ELECTRIC COOPERATIVE	RELEASE OF RIGHTS
101	2	FRONTIER NORTH INC. - NO EASEMENT OF RECORD	RELEASE OF RIGHTS
102	2, 3	AMERICAN TRANSMISSION COMPANY	RELEASE OF RIGHTS
103	2, 3	WISCONSIN POWER & LIGHT D.B.A. ALLIANT ENERGY CORP.	RELEASE OF RIGHTS

100 — ADAMS-COLUMBIA ELECTRIC COOPERATIVE F/K/A ADAMS-MARQUETTE ELECTRIC COOPERATIVE — DOC. 189782 - PAR. 3, DOC. 126070 - PAR. 5
101 — FRONTIER NORTH INC. — NO EASEMENT OF RECORD - PAR. 2
102 — AMERICAN TRANSMISSION COMPANY — DOC. 77993 - PAR. 2, 3
103 — WISCONSIN POWER AND LIGHT COMPANY DBA ALLAINT ENERGY CORP. — DOC. 77993 - PAR. 2, 3 — ASSIGNED TO ATC LLC, DOC. 225993

NE - NE SEC-21

NW - NW SEC-22

Tax Key No.024-00525-0000

SW - SW SEC-15

PROJECT LOCATION (NOT TO SCALE)

T-16-N, T-15-N, R-10-E, SHIELDS

SHEET LOCATION

SCALE, FEET
0 50 100

PC 319+49.43
Y = 280141.169
X = 478638.758

R/L = N 57° 46' 13" E

R/L = S 66° 15' 25" E

R/L = N 81° 42' 31" E

R/L = S 89° 31' 41" E

R/L = N 79° 42' 30" E

R/L = S 0° 19' 40" W

10' TLE FOR SLOPE BLENDING

TLE 2, TLE 3, TLE 4

CURVE RLCUR8 TO ERWC2
L.C. = 419.62'
L.C.B. = S 18°49'40" W
R. = 1183.30'

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MARQUETTE COUNTY, NAD83 (2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT. (TYPICALLY 3/4 " X 24" RE-BAR)

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

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

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

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER	INTEREST REQUIRED	FEE R/W ACRES OR (S.F.) REQUIRED			TLE AREA
			NEW	EXISTING	TOTAL	
2	MARK HILLMER & LEROY HILLMER	FEE, TLE	0.21	2.27	2.48	0.09
3	WILLIAM F & LORRAINE E OLIVER	FEE	0.22	0.21	0.43	------
5	JOSEPHINE POLAK TRUST	FEE	0.72	1.25	1.97	------

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LANDS TO THE DEPARTMENT OF TRANSPORTATION.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT / DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET. AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LOH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(DOC)	TANGENT	TAN
REFERENCE LINE	R/L		

FOUND IRON PIPE/PIN	●
R/W MONUMENT	▲
R/W STANDARD	▲
SIGN	
SECTION CORNER MONUMENT	●
SECTION CORNER SYMBOL	
FEE (WATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	
PARCEL NUMBER	
SIGN NUMBER (OFF PREMISES)	
BUILDING	

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE (IF UNLESS NOTED)	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
RESTRICTED ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
RESTRICTED ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

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	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

I, JEFFREY T. BROCK PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Jeffrey T. Brock DATE: 8/09/16
PRINT NAME: JEFFREY T. BROCK
REGISTRATION NUMBER: S-2642

WISCONSIN LAND SURVEYOR — Jeffrey T. Brock, 2642, Rhinelander WI

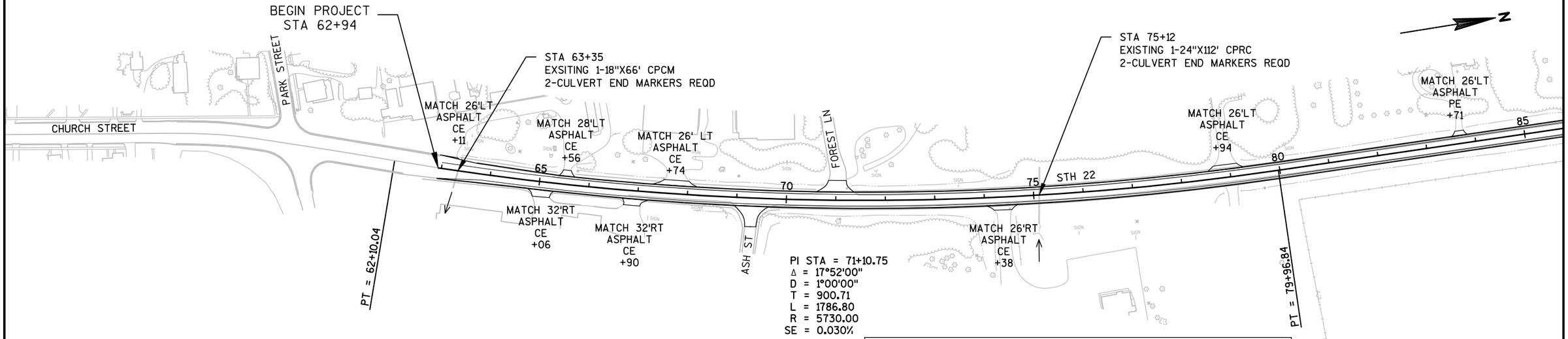
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: Brent L. Stella DATE: 8/09/16
PRINT NAME: BRENT L. STELLA

DOCUMENT NUMBER 306167
Marquette County
Bette L. Krueger
Register of Deeds
Recorded on 08/11/2016
at 08:00 AM
Transfer fee $00.00
Exempt #
eRecorded By:
WISDOT - NC REGION - RHINELAND

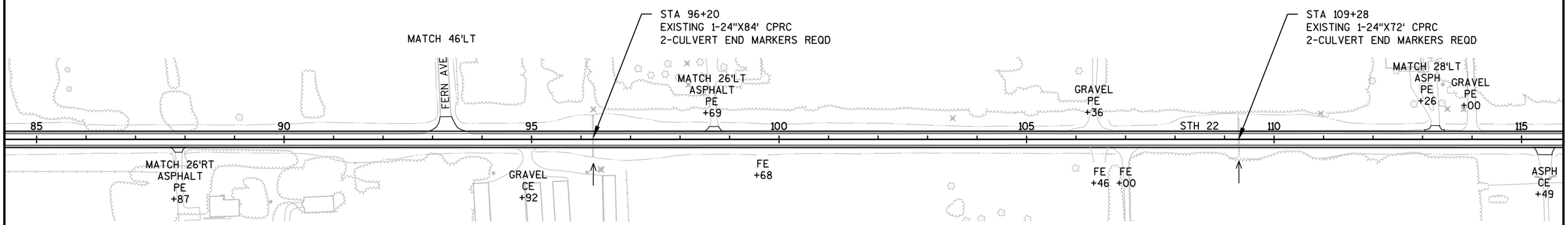
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6150-01-26 - 4.01
AMENDMENT NO:

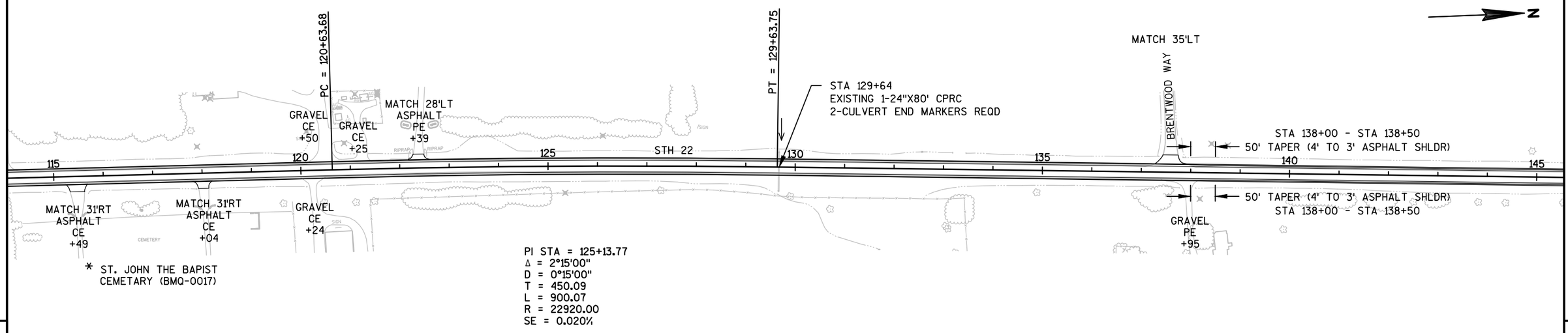
FILE NAME : N:\tss\rwplat\Electronic_TPPs\Marquette\61500126\071416_app_plt\040401_rpa.dgn
APPRAISAL PLAT DATE : 08-09-2016
PLOT DATE : 11-AUG-2016 07:38 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 50.000000:1.000000

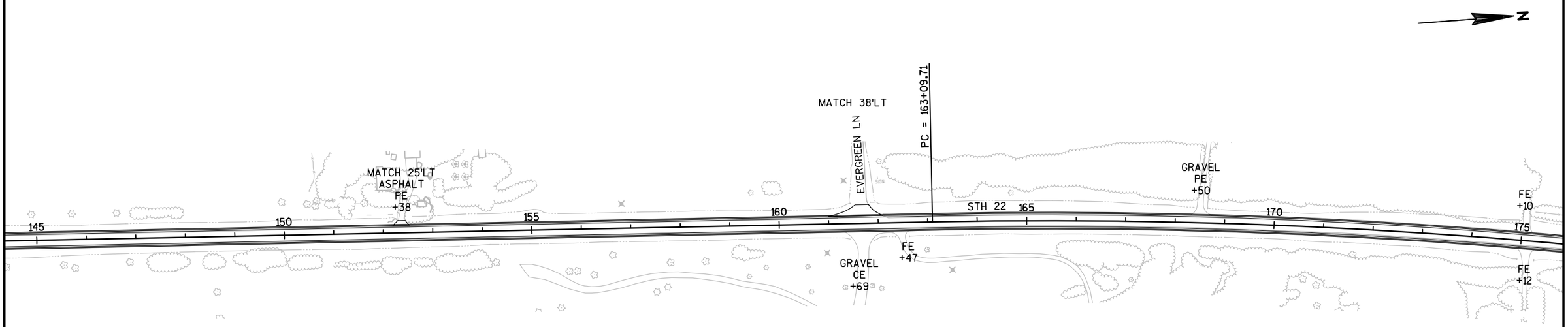


Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
50+00.00'	Begin Alignment	-4.00%	-2.00%	-2.00%	-4.00%
56+02.48'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
56+02.48'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
56+56.48'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
57+10.48'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
57+64.48'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
58+18.48'	Begin Full Super	6.00%	6.00%	-6.00%	-6.00%
59+08.16'	End Full Super	6.00%	6.00%	-6.00%	-6.00%
62+36.71'	Begin Full Super	-4.00%	-3.00%	3.00%	3.00%
79+70.18'	End Full Super	-4.00%	-3.00%	3.00%	3.00%
79+96.84'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
80+50.18'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
81+03.51'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
81+03.51'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%



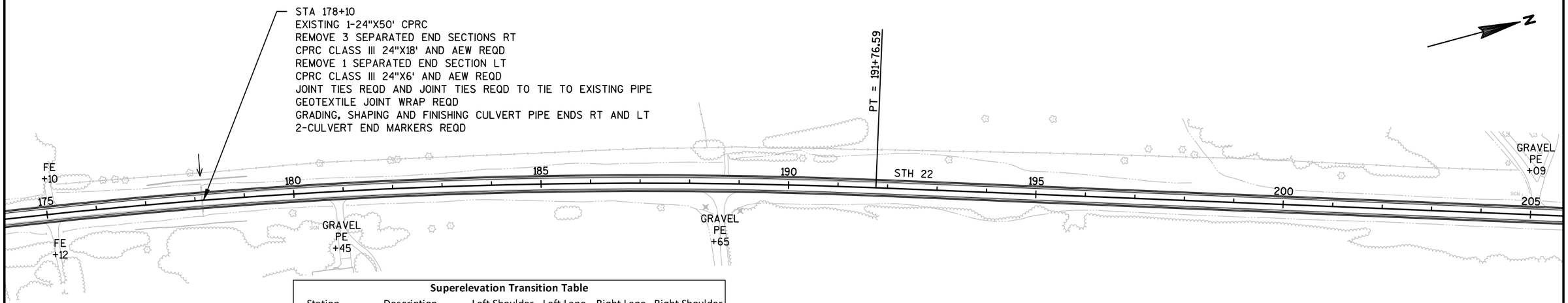




PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN SHEET	SHEET 80	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\050201-PN.DWG PLOT DATE : 12/2/2016 8:20 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44



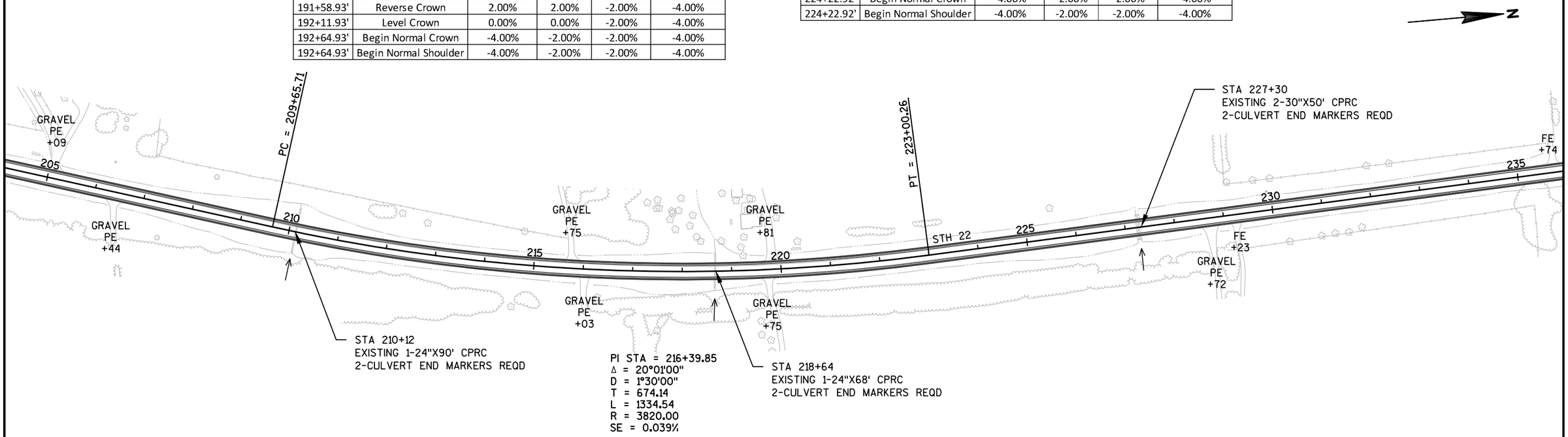
PI STA = 177+50.68
Δ = 14°20'00"
D = 0°30'00"
T = 1440.96
L = 2866.88
R = 11460.00
SE = 0.020%

Superelevation Transition Table

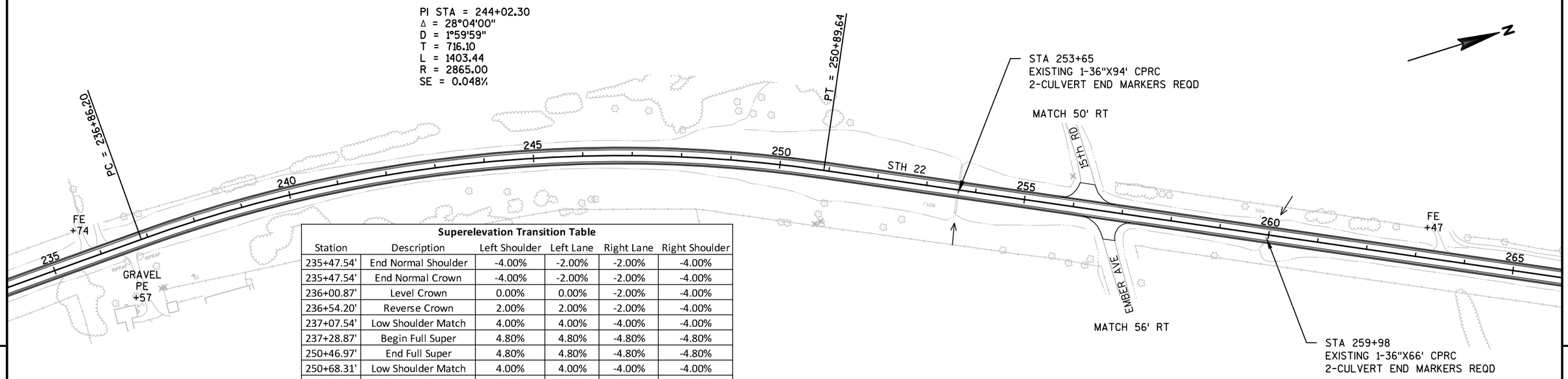
Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
62+36.71'	Begin Full Super	-4.00%	-3.00%	3.00%	3.00%
79+70.18'	End Full Super	-4.00%	-3.00%	3.00%	3.00%
79+96.84'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
80+50.18'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
81+03.51'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
81+03.51'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
162+21.38'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
162+21.38'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
162+74.38'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
163+27.38'	Begin Full Super	2.00%	2.00%	-2.00%	-4.00%
163+27.38'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
191+58.93'	End Full Super	2.00%	2.00%	-2.00%	-4.00%
191+58.93'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
192+11.93'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
192+64.93'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
192+64.93'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
208+43.05'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
208+43.05'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
208+96.38'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
209+49.71'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
210+00.38'	Begin Full Super	-4.00%	-3.90%	3.90%	3.90%
222+65.59'	End Full Super	-4.00%	-3.90%	3.90%	3.90%
223+16.26'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
223+69.59'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
224+22.92'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
224+22.92'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

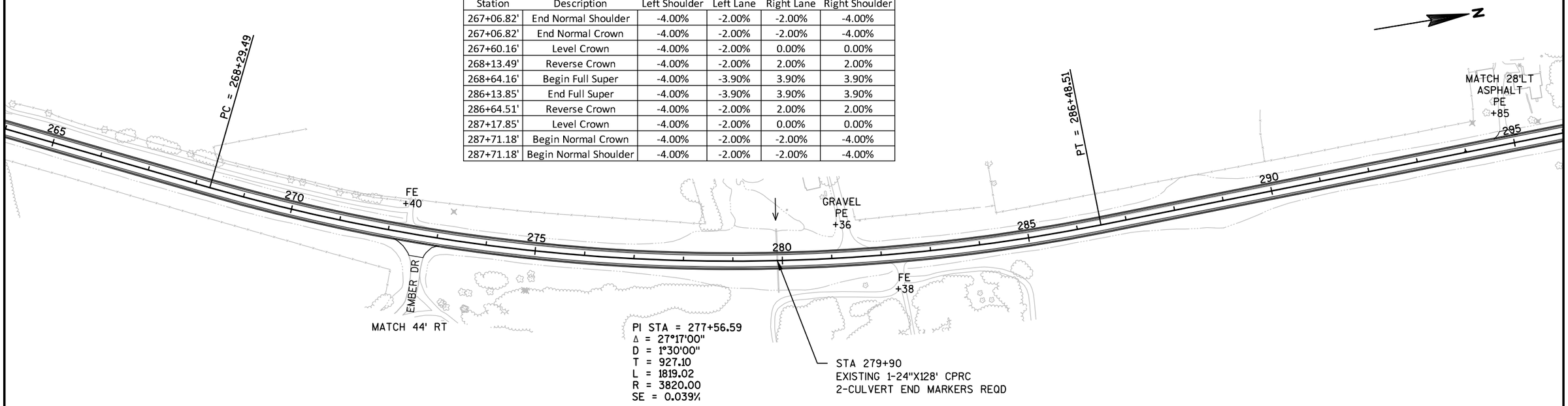


PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN SHEET	SHEET 81	E



Superelevation Transition Table

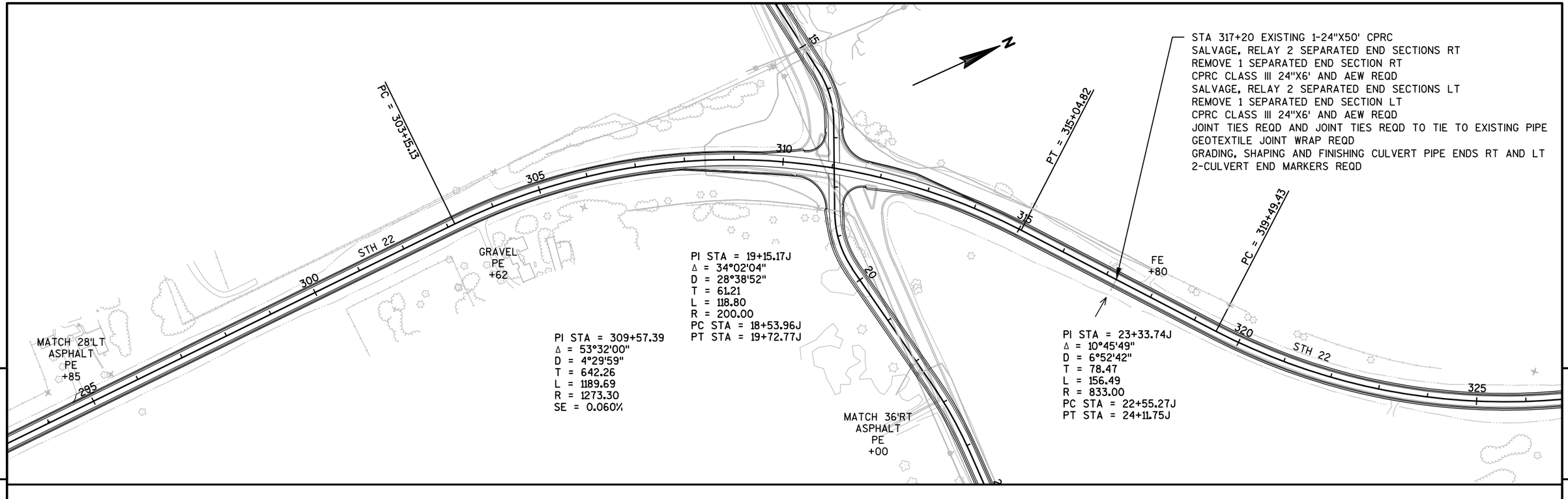
Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
235+47.54'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
235+47.54'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
236+00.87'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
236+54.20'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
237+07.54'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
237+28.87'	Begin Full Super	4.80%	4.80%	-4.80%	-4.80%
250+46.97'	End Full Super	4.80%	4.80%	-4.80%	-4.80%
250+68.31'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
251+21.64'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
251+74.97'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
252+28.31'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
252+28.31'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%



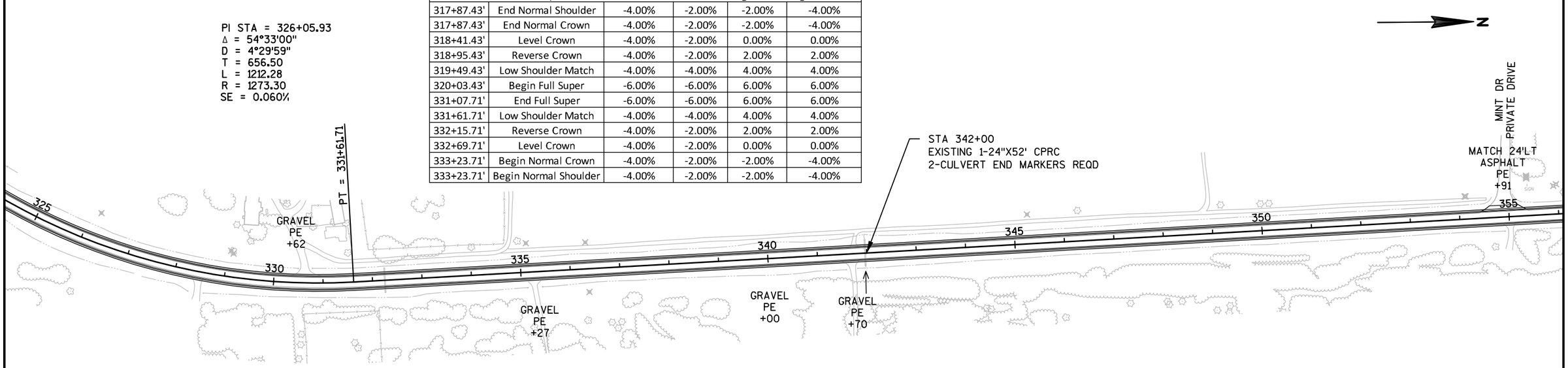
Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
267+06.82'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
267+06.82'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
267+60.16'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
268+13.49'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
268+64.16'	Begin Full Super	-4.00%	-3.90%	3.90%	3.90%
286+13.85'	End Full Super	-4.00%	-3.90%	3.90%	3.90%
286+64.51'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
287+17.85'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
287+71.18'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
287+71.18'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN SHEET	SHEET 82	E



Superelevation Transition Table					
Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
317+87.43'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
317+87.43'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
318+41.43'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
318+95.43'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
319+49.43'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
320+03.43'	Begin Full Super	-6.00%	-6.00%	6.00%	6.00%
331+07.71'	End Full Super	-6.00%	-6.00%	6.00%	6.00%
331+61.71'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
332+15.71'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
332+69.71'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
333+23.71'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
333+23.71'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN SHEET	SHEET 83	E

Superelevation Transition Table

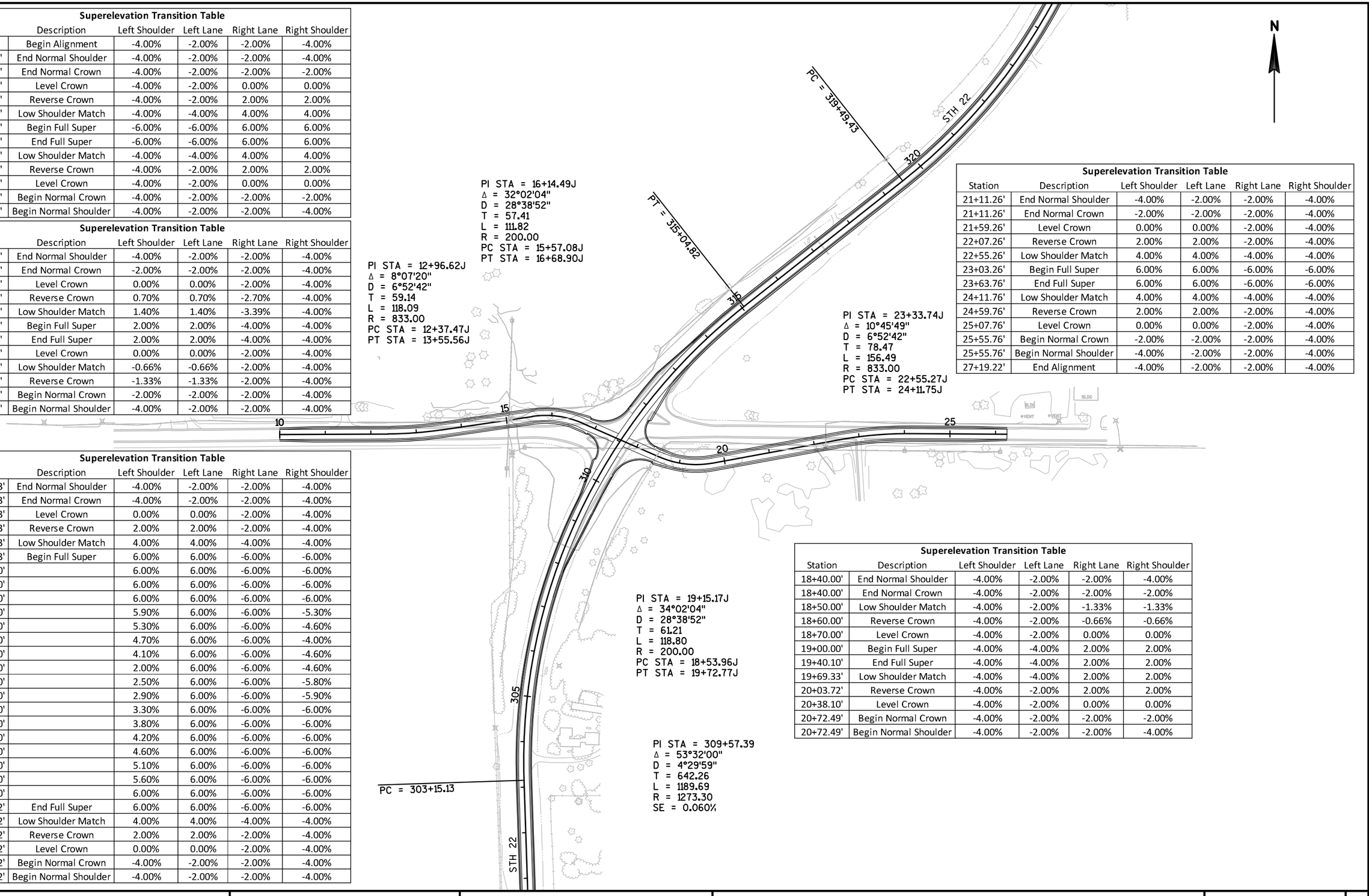
Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
9+99.99'	Begin Alignment	-4.00%	-2.00%	-2.00%	-4.00%
10+93.47'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
10+93.47'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
11+41.47'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
11+89.47'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
12+37.47'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
12+85.47'	Begin Full Super	-6.00%	-6.00%	6.00%	6.00%
13+07.57'	End Full Super	-6.00%	-6.00%	6.00%	6.00%
13+55.57'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
14+03.57'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
14+51.57'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
14+99.57'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
14+99.57'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
15+06.55'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
15+06.55'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
15+36.55'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
15+47.35'	Reverse Crown	0.70%	0.70%	-2.70%	-4.00%
15+58.16'	Low Shoulder Match	1.40%	1.40%	-3.39%	-4.00%
15+66.55'	Begin Full Super	2.00%	2.00%	-4.00%	-4.00%
16+20.00'	End Full Super	2.00%	2.00%	-4.00%	-4.00%
16+50.00'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
16+60.00'	Low Shoulder Match	-0.66%	-0.66%	-2.00%	-4.00%
16+70.00'	Reverse Crown	-1.33%	-1.33%	-2.00%	-4.00%
16+80.00'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
16+80.00'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
301+53.13'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
301+53.13'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
302+07.13'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
302+61.13'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
303+15.13'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
303+69.13'	Begin Full Super	6.00%	6.00%	-6.00%	-6.00%
308+00.00'		6.00%	6.00%	-6.00%	-6.00%
309+00.00'		6.00%	6.00%	-6.00%	-6.00%
309+50.00'		6.00%	6.00%	-6.00%	-6.00%
309+75.00'		5.90%	6.00%	-6.00%	-5.30%
310+00.00'		5.30%	6.00%	-6.00%	-4.60%
310+25.00'		4.70%	6.00%	-6.00%	-4.00%
310+50.00'		4.10%	6.00%	-6.00%	-4.60%
311+75.00'		2.00%	6.00%	-6.00%	-4.60%
312+00.00'		2.50%	6.00%	-6.00%	-5.80%
312+25.00'		2.90%	6.00%	-6.00%	-5.90%
312+50.00'		3.30%	6.00%	-6.00%	-6.00%
312+75.00'		3.80%	6.00%	-6.00%	-6.00%
313+00.00'		4.20%	6.00%	-6.00%	-6.00%
313+25.00'		4.60%	6.00%	-6.00%	-6.00%
313+50.00'		5.10%	6.00%	-6.00%	-6.00%
313+75.00'		5.60%	6.00%	-6.00%	-6.00%
314+00.00'		6.00%	6.00%	-6.00%	-6.00%
314+50.82'	End Full Super	6.00%	6.00%	-6.00%	-6.00%
315+04.82'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
315+58.82'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
316+12.82'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
316+66.82'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
316+66.82'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

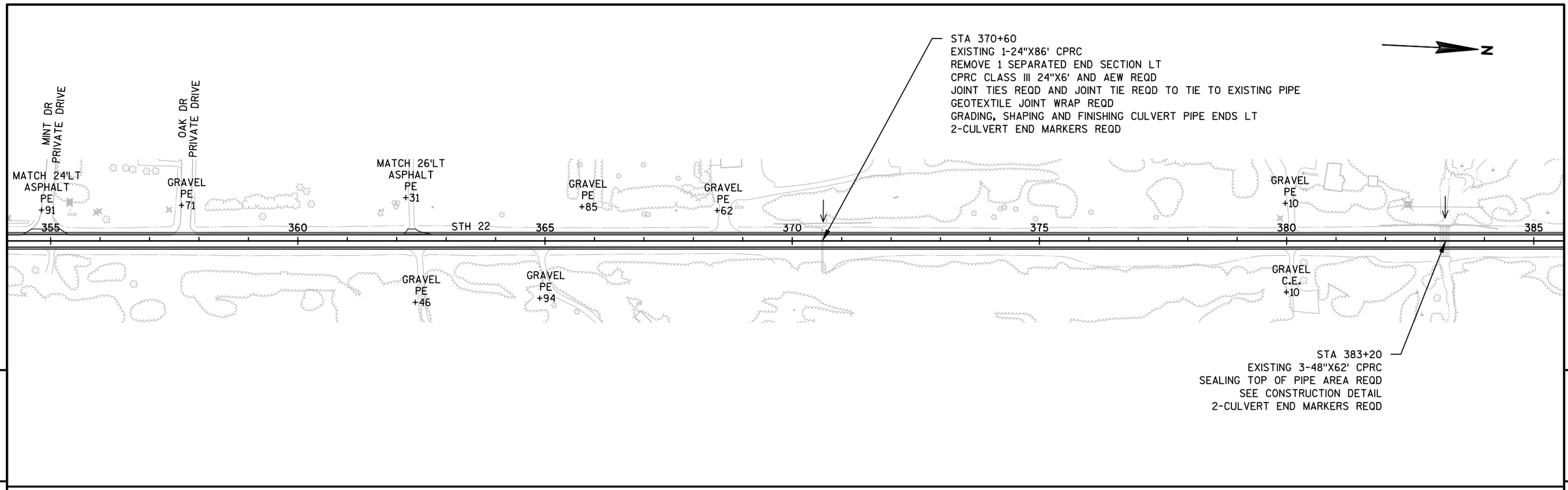


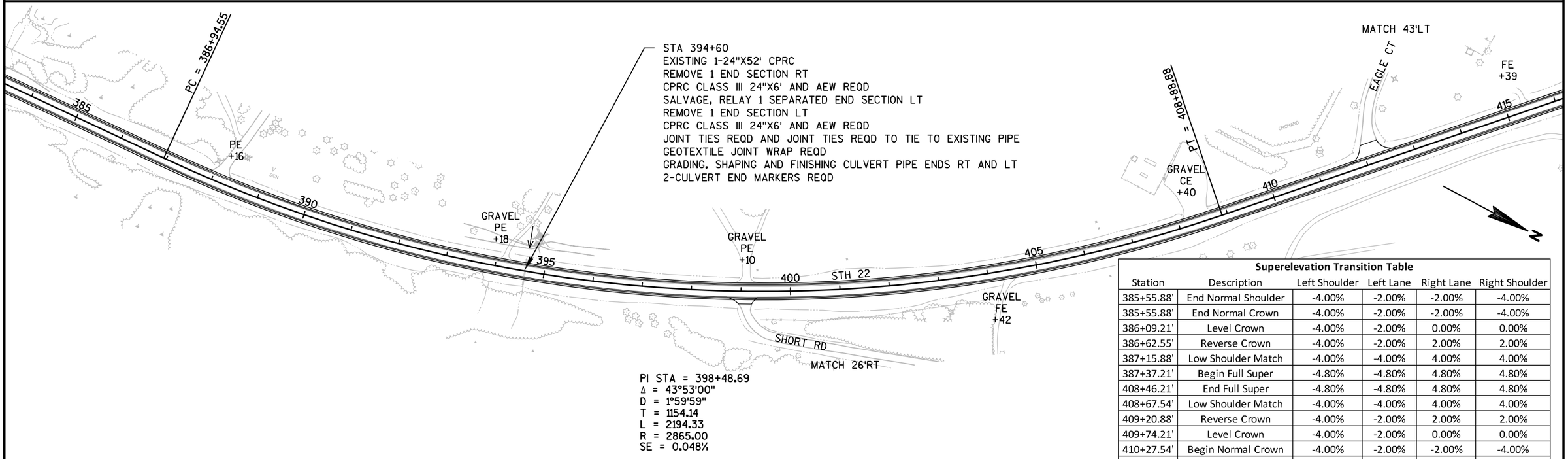
Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
21+11.26'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
21+11.26'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
21+59.26'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
22+07.26'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
22+55.26'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
23+03.26'	Begin Full Super	6.00%	6.00%	-6.00%	-6.00%
23+63.76'	End Full Super	6.00%	6.00%	-6.00%	-6.00%
24+11.76'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
24+59.76'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
25+07.76'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
25+55.76'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
25+55.76'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
27+19.22'	End Alignment	-4.00%	-2.00%	-2.00%	-4.00%

Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
18+40.00'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
18+40.00'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
18+50.00'	Low Shoulder Match	-4.00%	-2.00%	-1.33%	-1.33%
18+60.00'	Reverse Crown	-4.00%	-2.00%	-0.66%	-0.66%
18+70.00'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
19+00.00'	Begin Full Super	-4.00%	-4.00%	2.00%	2.00%
19+40.10'	End Full Super	-4.00%	-4.00%	2.00%	2.00%
19+69.33'	Low Shoulder Match	-4.00%	-4.00%	2.00%	2.00%
20+03.72'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
20+38.10'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
20+72.49'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
20+72.49'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

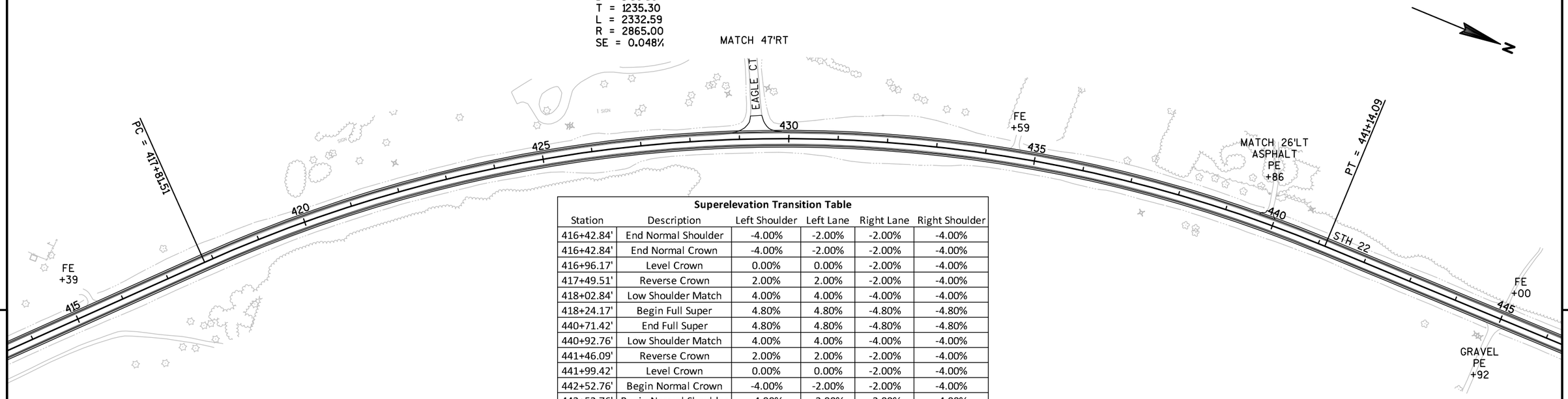




Superelevation Transition Table

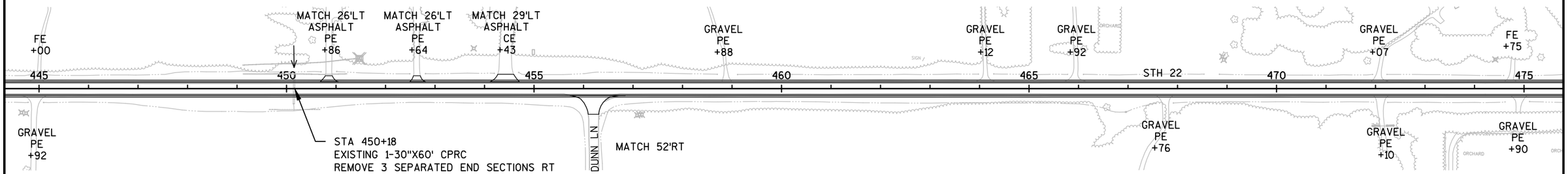
Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
385+55.88'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
385+55.88'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
386+09.21'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
386+62.55'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
387+15.88'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
387+37.21'	Begin Full Super	-4.80%	-4.80%	4.80%	4.80%
408+46.21'	End Full Super	-4.80%	-4.80%	4.80%	4.80%
408+67.54'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
409+20.88'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
409+74.21'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
410+27.54'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
410+27.54'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

PI STA = 430+16.80
Δ = 46°38'54"
D = 1°59'59"
T = 1235.30
L = 2332.59
R = 2865.00
SE = 0.048%



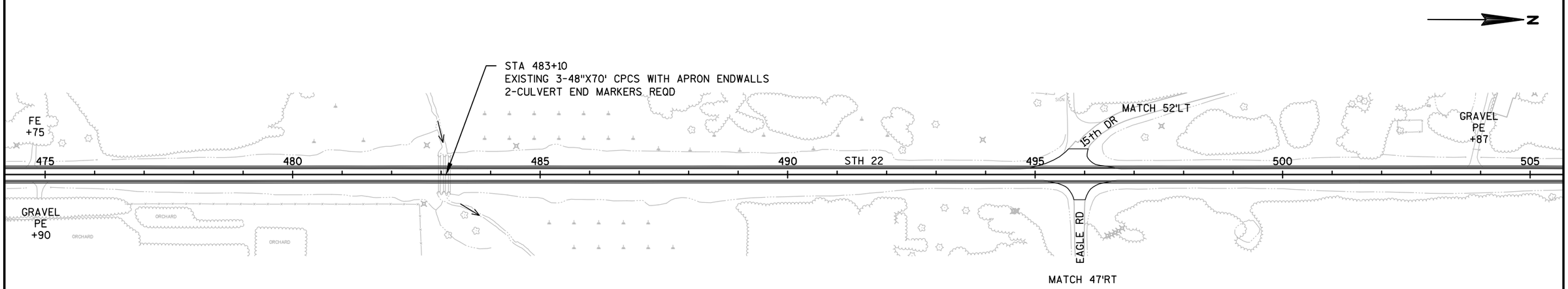
Superelevation Transition Table

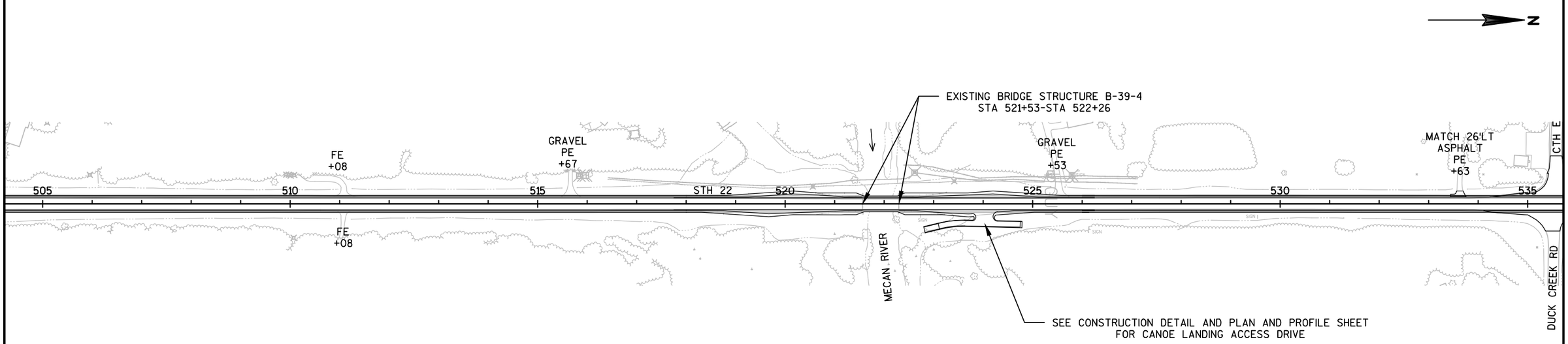
Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
416+42.84'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
416+42.84'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
416+96.17'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
417+49.51'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
418+02.84'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
418+24.17'	Begin Full Super	4.80%	4.80%	-4.80%	-4.80%
440+71.42'	End Full Super	4.80%	4.80%	-4.80%	-4.80%
440+92.76'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
441+46.09'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
441+99.42'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
442+52.76'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
442+52.76'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%



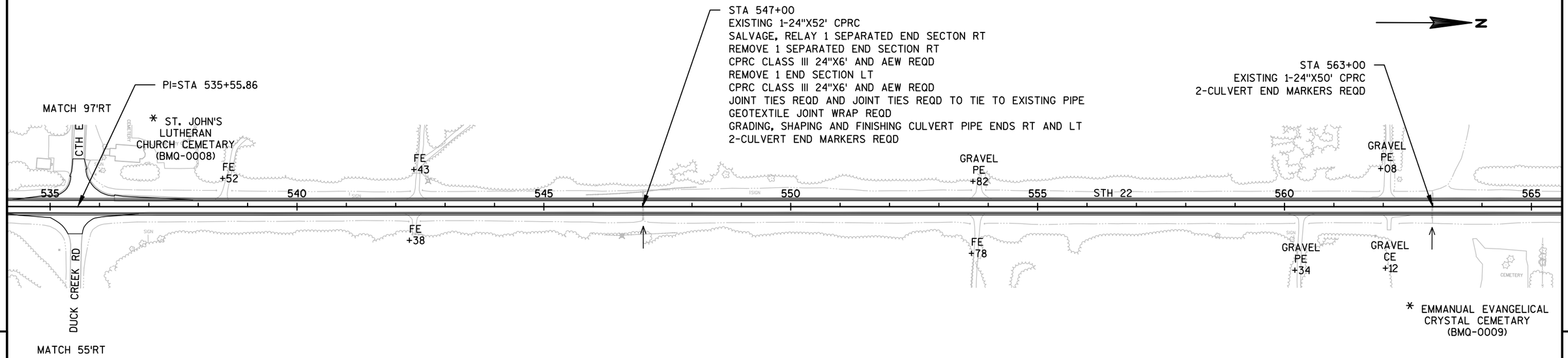
STA 450+18
EXISTING 1-30"X60' CPRC
REMOVE 3 SEPARATED END SECTIONS RT
CPRC CLASS III 30"X12' AND AEW REQD
REMOVE 1 END SECTION LT
CPRC CLASS III 30"X6' AND AEW REQD
JOINT TIES REQD AND JOINT TIES REQD TO TIE TO EXISTING PIPE
GEOTEXTILE JOINT WRAP REQD
GRADING, SHAPING AND FINISHING CULVERT PIPE ENDS RT AND LT
2-CULVERT END MARKERS REQD

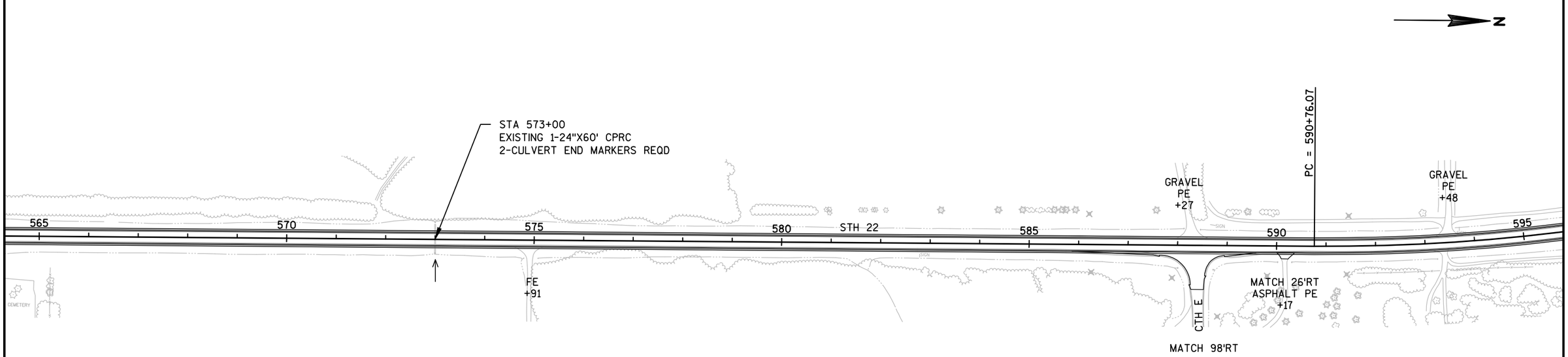
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN SHEET	SHEET 86	E





PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN SHEET	SHEET 87	E





PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN SHEET	SHEET 88	E

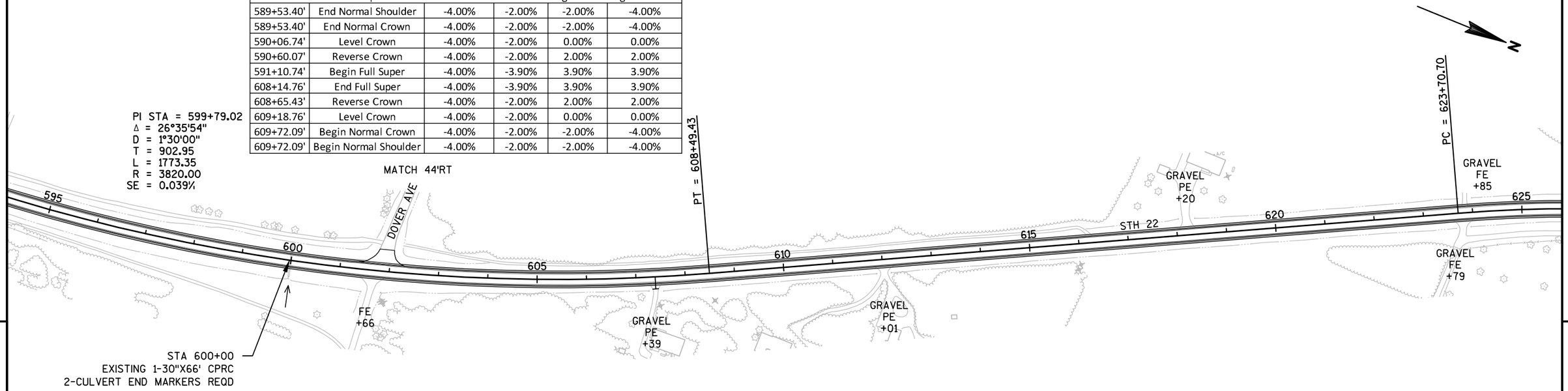
FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\050201-PN.DWG PLOT DATE : 12/2/2016 8:21 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1 IN:200 FT

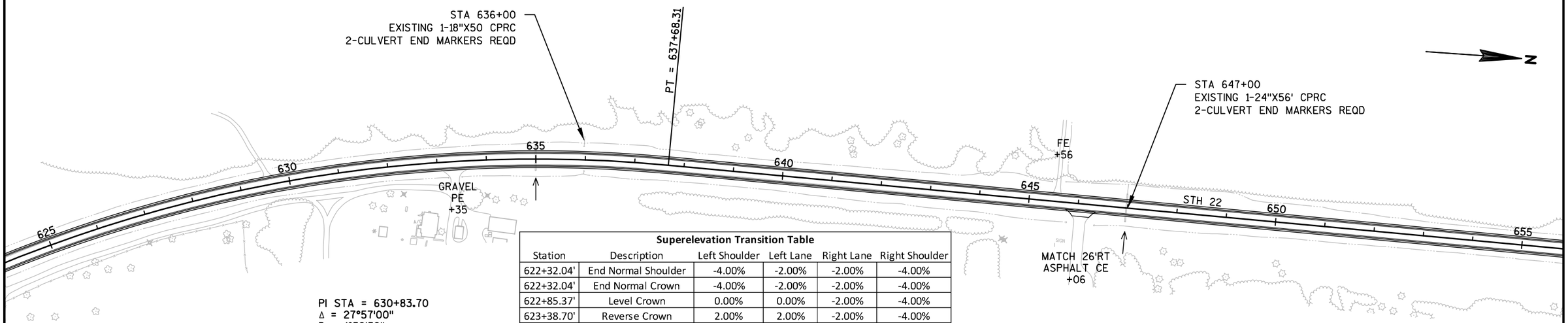
WISDOT/CADDS SHEET 44

Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
589+53.40'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
589+53.40'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
590+06.74'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
590+60.07'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
591+10.74'	Begin Full Super	-4.00%	-3.90%	3.90%	3.90%
608+14.76'	End Full Super	-4.00%	-3.90%	3.90%	3.90%
608+65.43'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
609+18.76'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
609+72.09'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
609+72.09'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

PI STA = 599+79.02
Δ = 26°35'54"
D = 1°30'00"
T = 902.95
L = 1773.35
R = 3820.00
SE = 0.039%

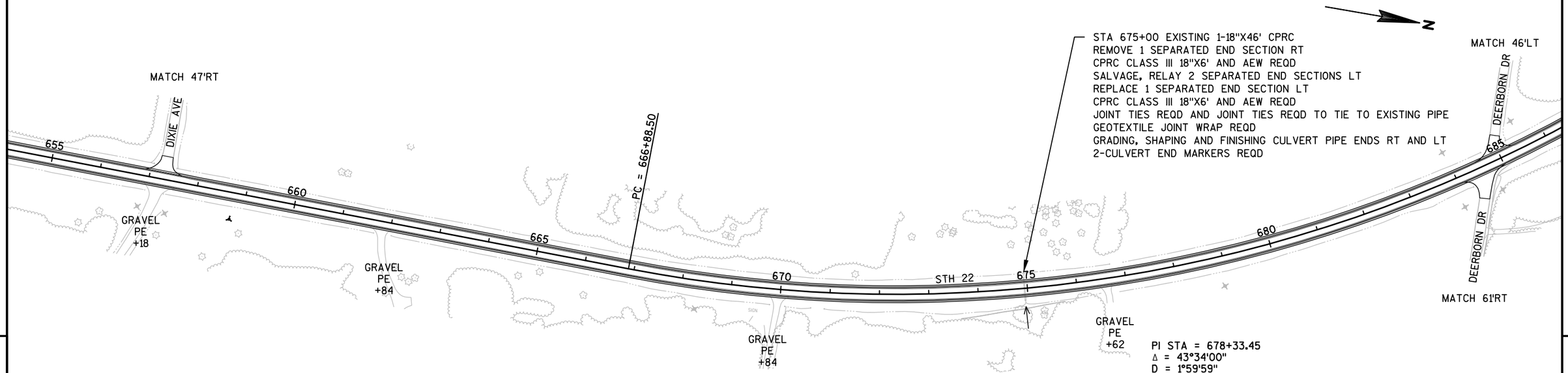




PI STA = 630+83.70
Δ = 27°57'00"
D = 1°59'59"
T = 713.00
L = 1397.60
R = 2865.00
SE = 0.048%

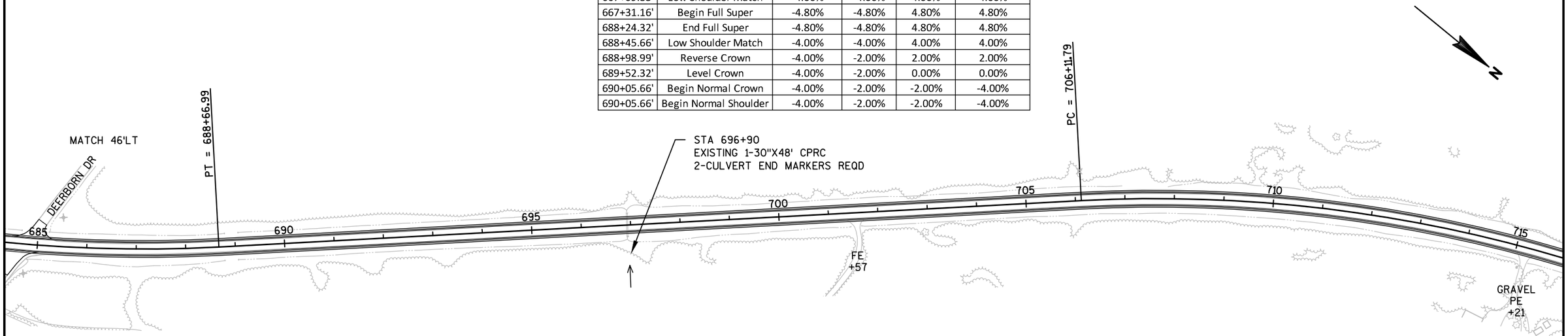
Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
622+32.04'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
622+32.04'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
622+85.37'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
623+38.70'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
623+92.04'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
624+13.37'	Begin Full Super	4.80%	4.80%	-4.80%	-4.80%
637+25.64'	End Full Super	4.80%	4.80%	-4.80%	-4.80%
637+46.97'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
638+00.31'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
638+53.64'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
639+06.97'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
639+06.97'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

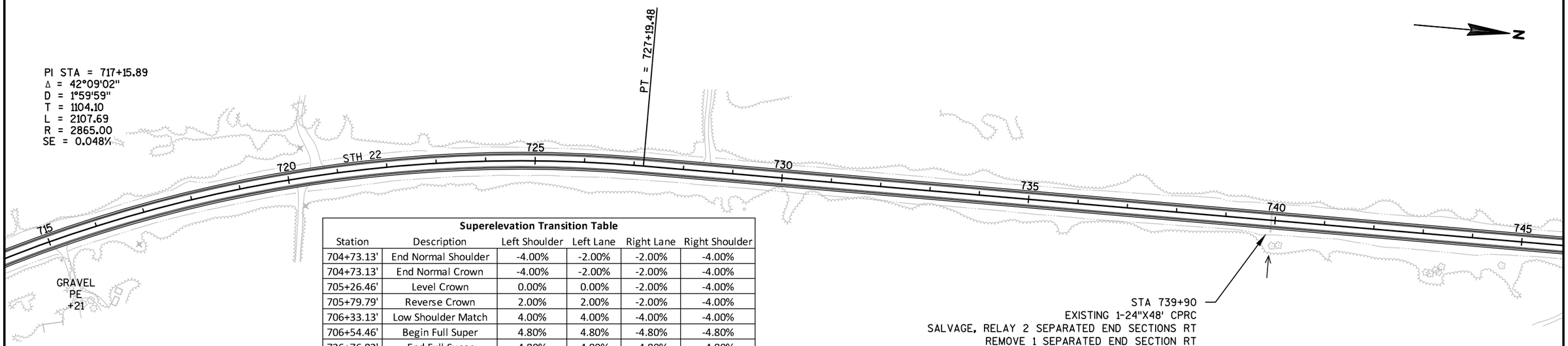


Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
665+49.83'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
665+49.83'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
666+03.16'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
666+56.50'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
667+09.83'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
667+31.16'	Begin Full Super	-4.80%	-4.80%	4.80%	4.80%
688+24.32'	End Full Super	-4.80%	-4.80%	4.80%	4.80%
688+45.66'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
688+98.99'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
689+52.32'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
690+05.66'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
690+05.66'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%

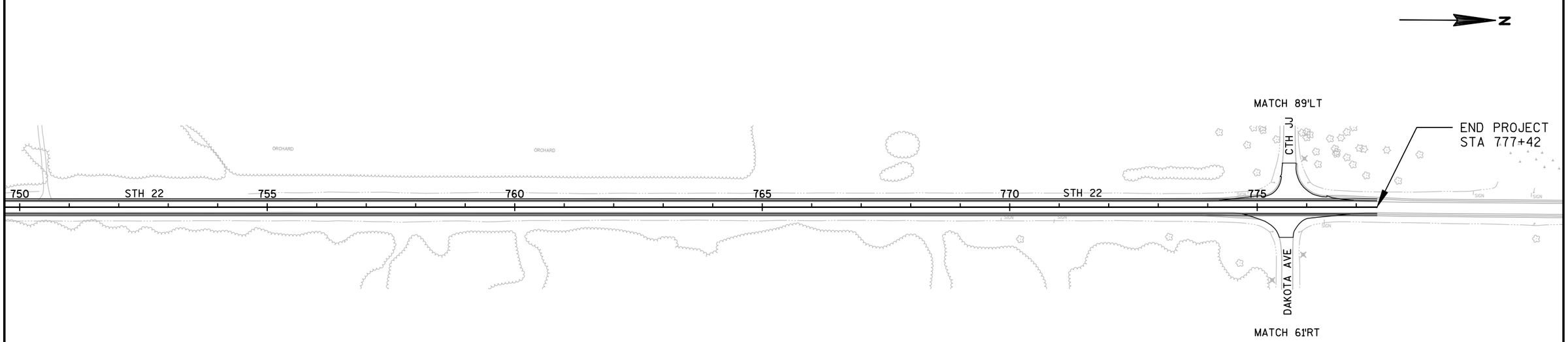


PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN SHEET	SHEET 90	E

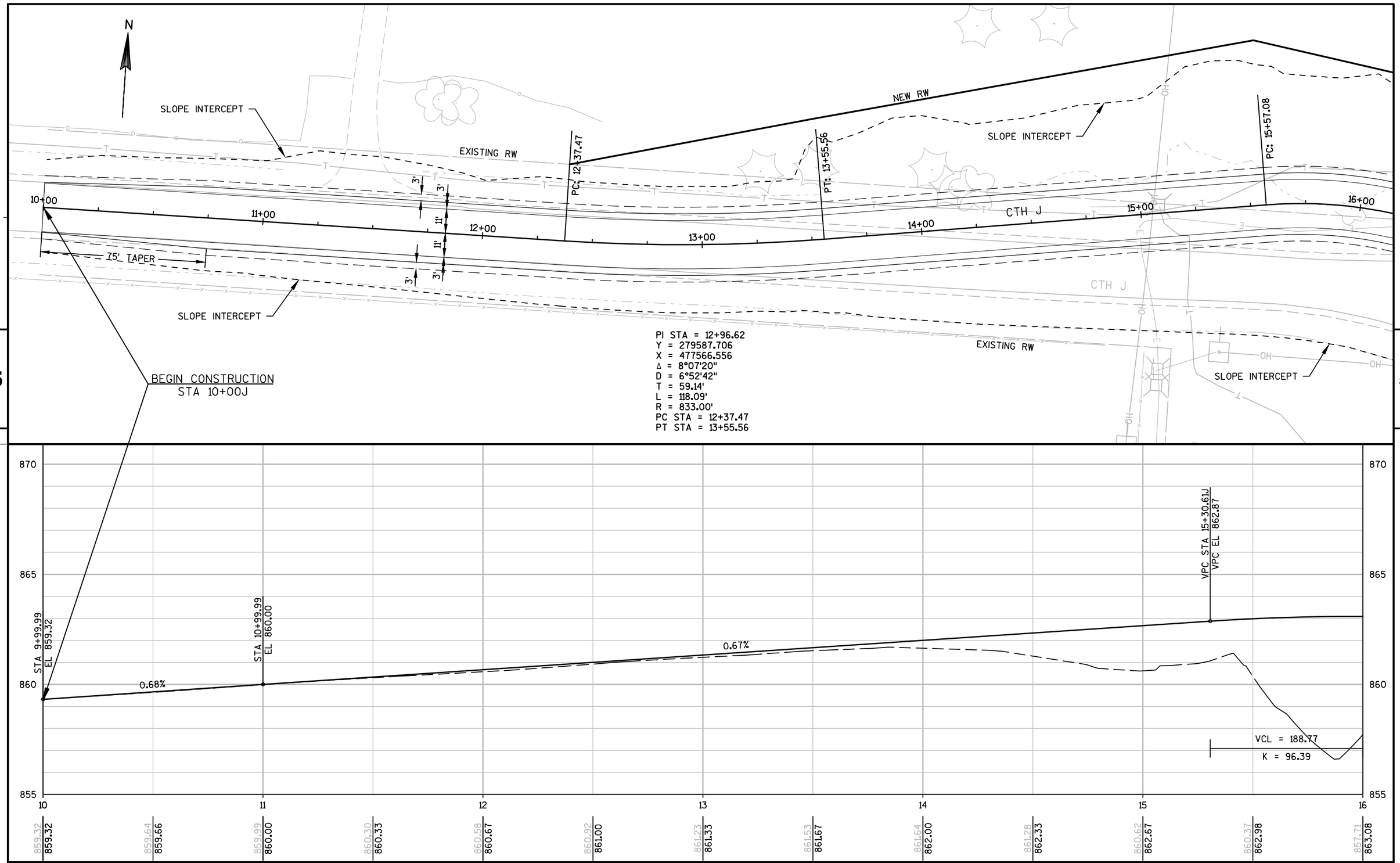


Superelevation Transition Table

Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
704+73.13'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
704+73.13'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
705+26.46'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
705+79.79'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
706+33.13'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
706+54.46'	Begin Full Super	4.80%	4.80%	-4.80%	-4.80%
726+76.82'	End Full Super	4.80%	4.80%	-4.80%	-4.80%
726+98.15'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
727+51.48'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
728+04.82'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
728+58.15'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
728+58.15'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
777+42.00'	End Alignment	-4.00%	-2.00%	-2.00%	-4.00%



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN SHEET	SHEET 91	E



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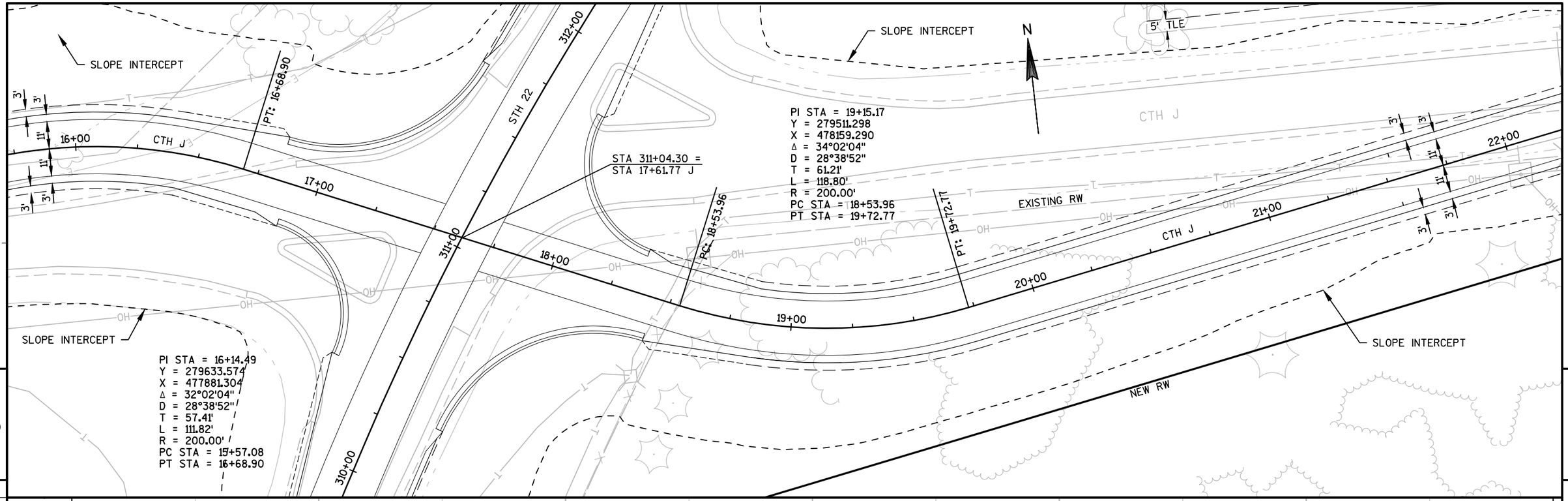
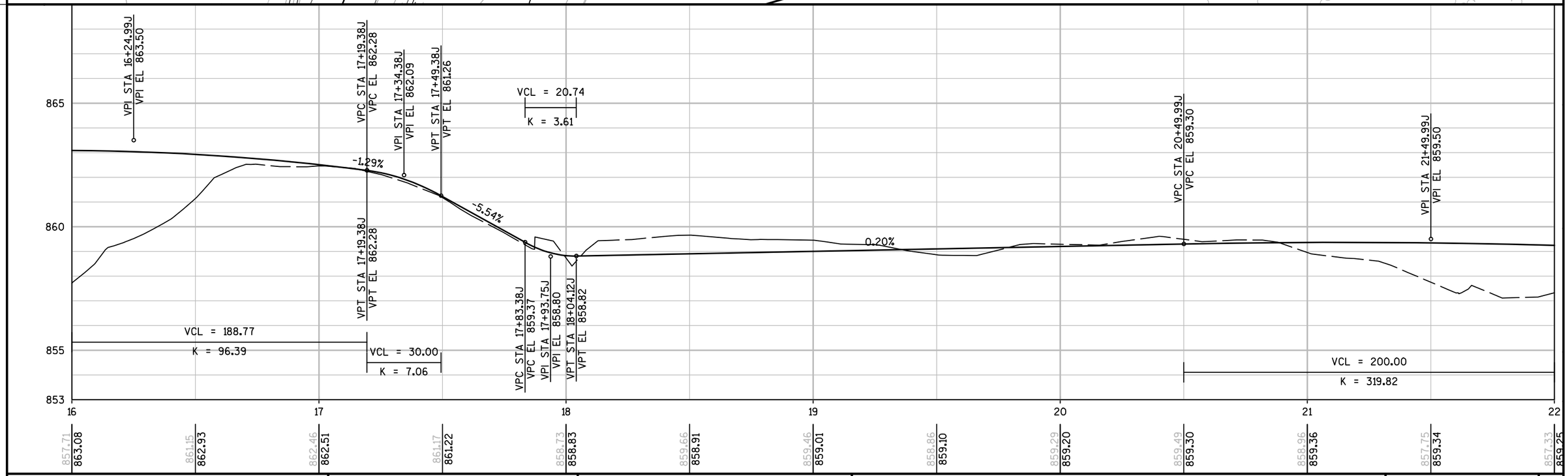
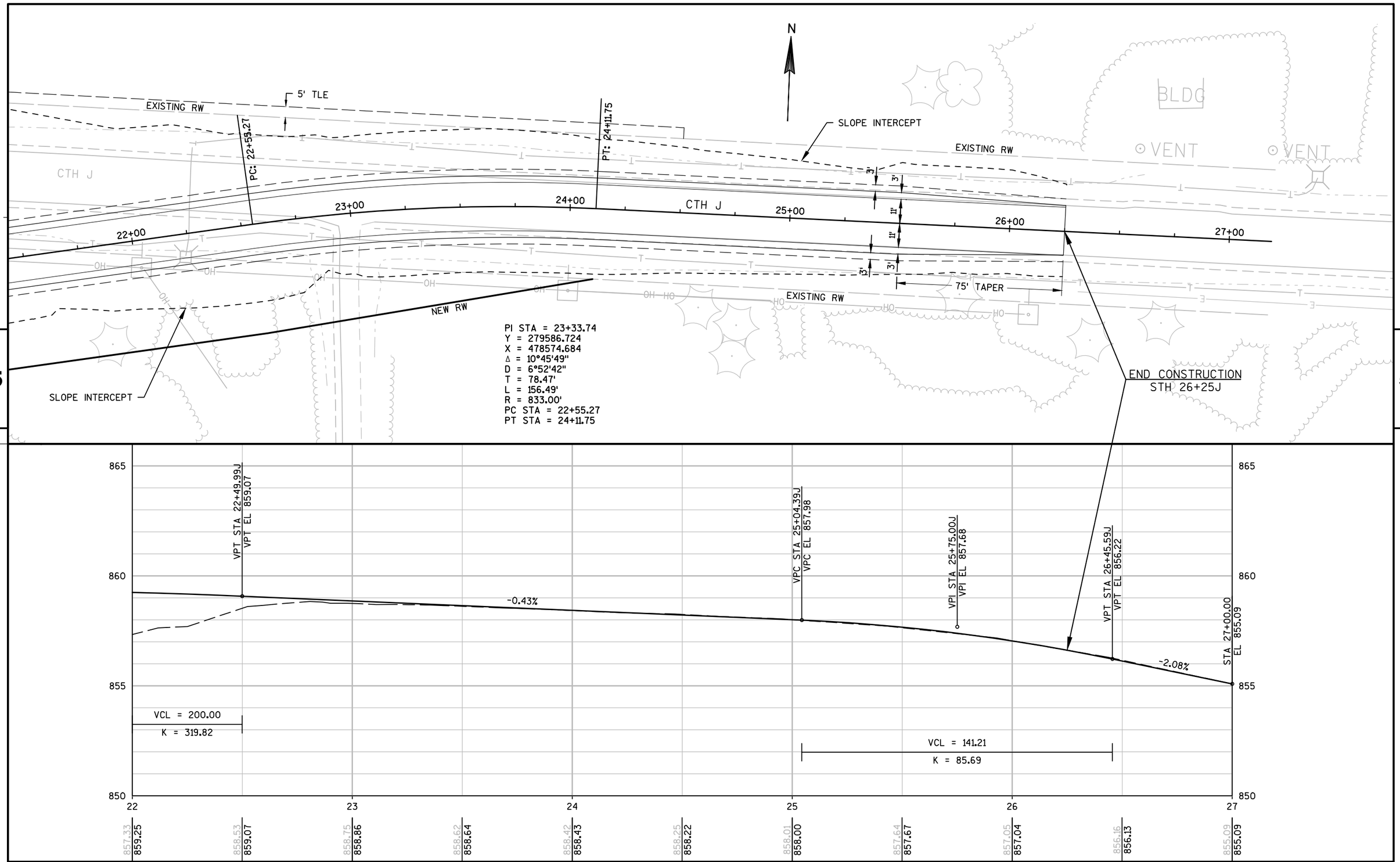
5

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN AND PROFILE: CTH J	SHEET 92 E

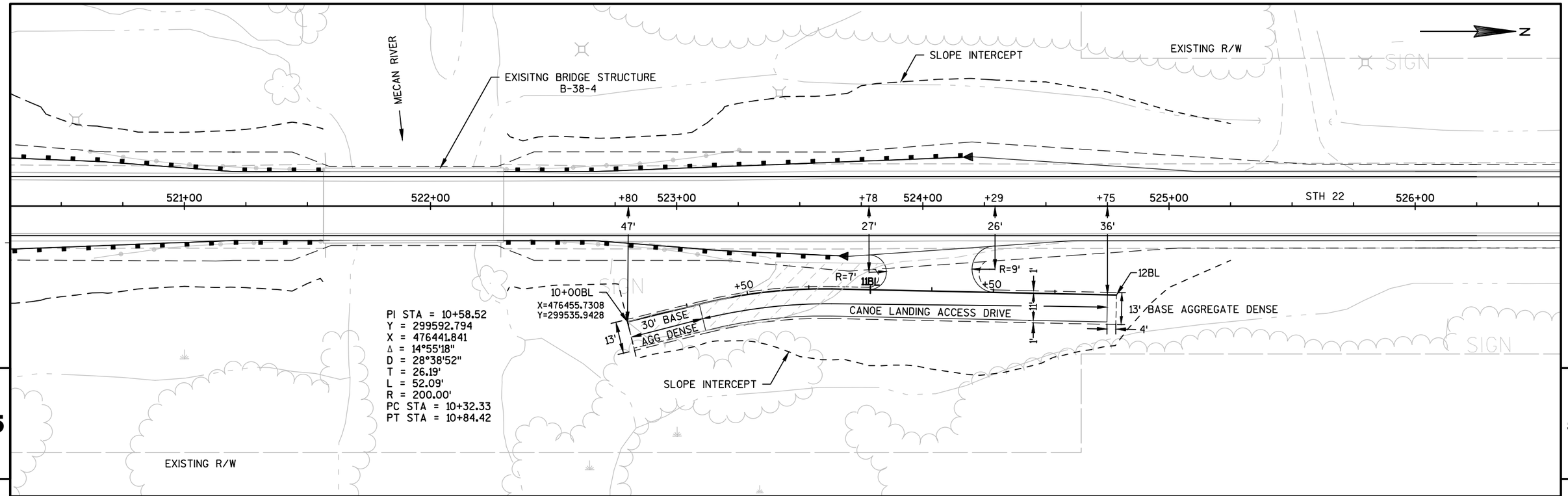


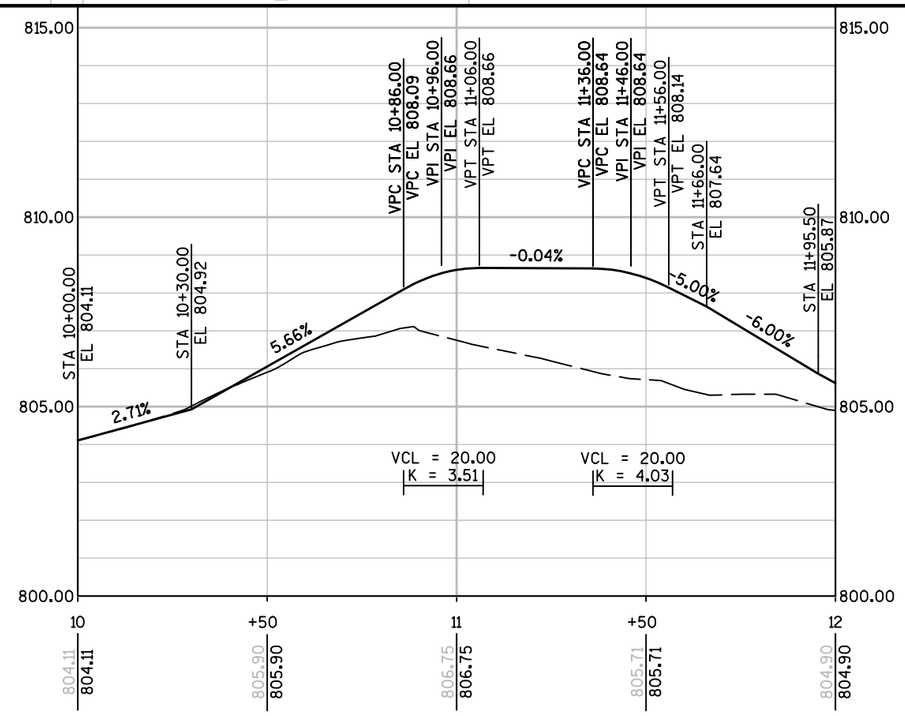


PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN AND PROFILE: CTH J	SHEET 93	E



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN AND PROFILE: CTH J	SHEET 94	E

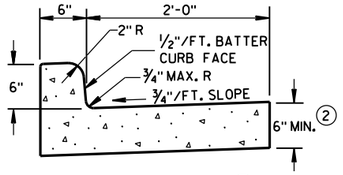




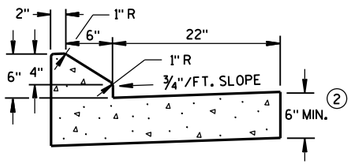
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PLAN AND PROFILE: CANOE LANDING ACCESS DRIVE	SHEET 95	E

Standard Detail Drawing List

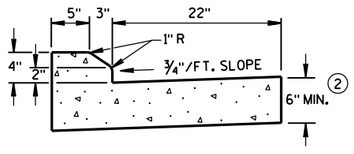
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS



TYPES A & D ①

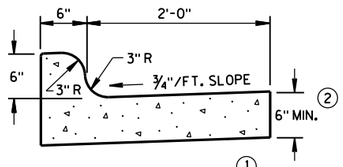


6" SLOPED CURB TYPES G & J ①

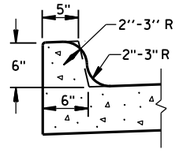


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

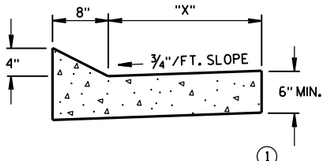


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

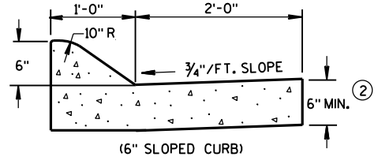
CONCRETE CURB & GUTTER 30"



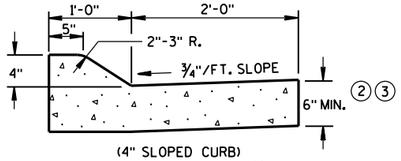
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

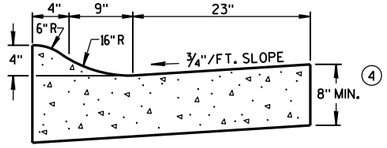


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS 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 & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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 GUTTER TYPES A, G, K, R AND TBTT.

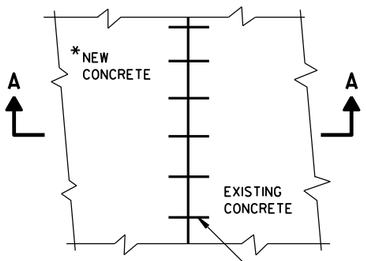
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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.

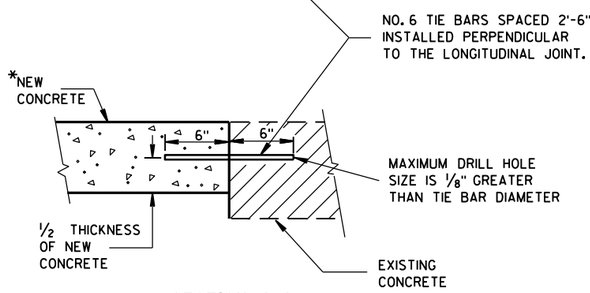
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

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



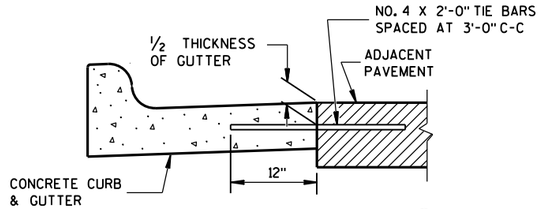
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

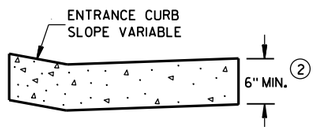


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

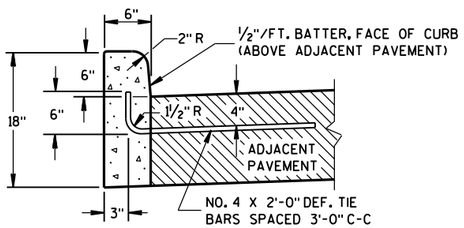


TYPICAL TIE BAR LOCATION ①

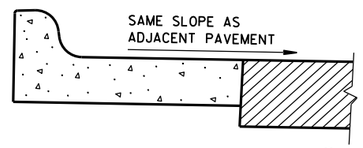


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

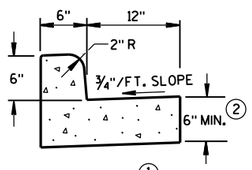


① TYPES A & D



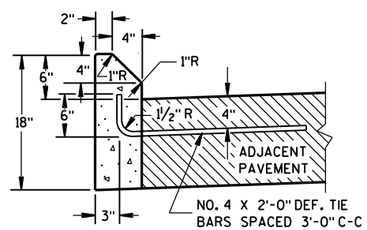
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



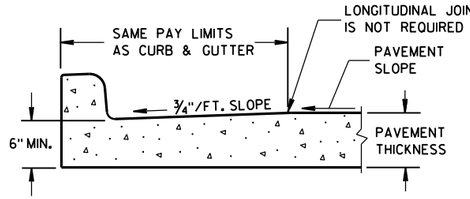
① TYPES A & D

CONCRETE CURB & GUTTER 18"

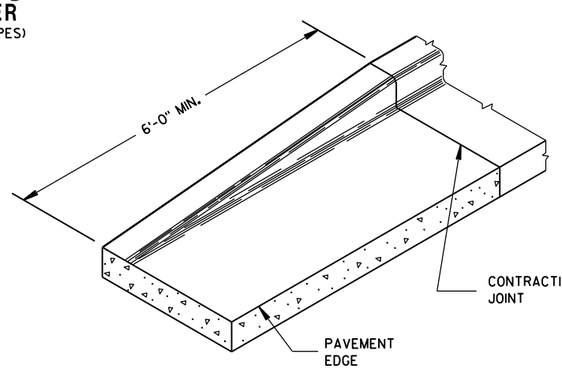


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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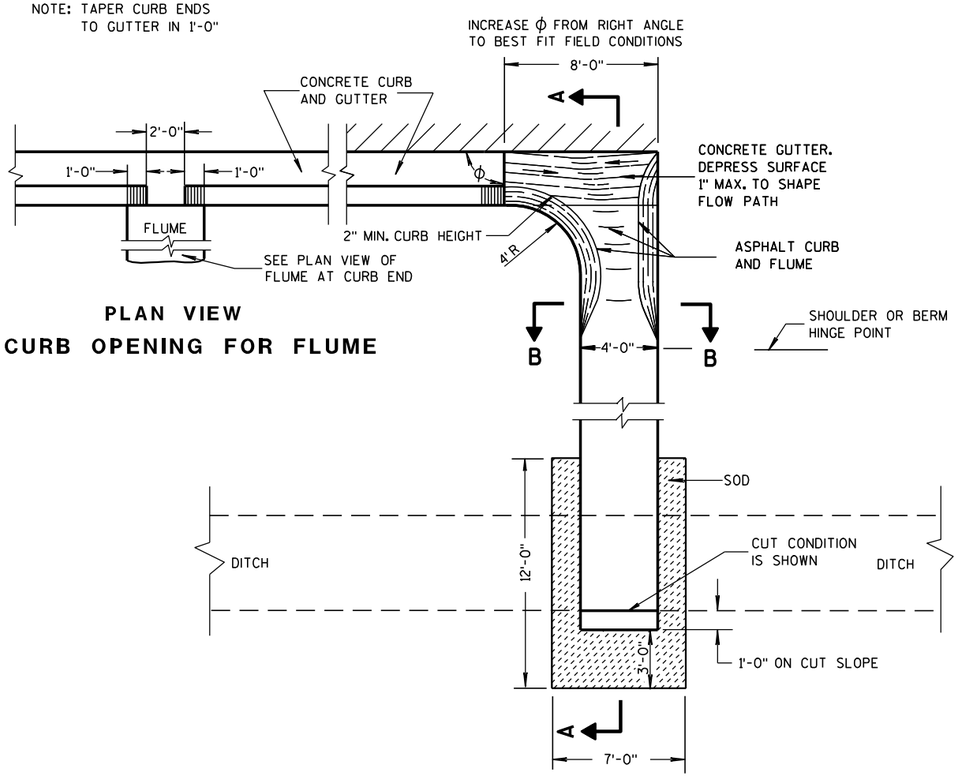
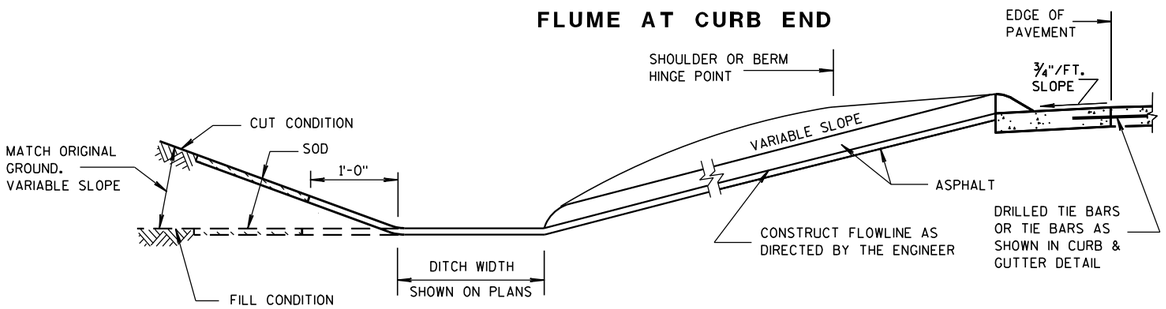
ASPHALTIC FLUME

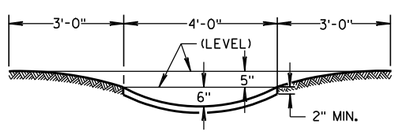


PLAN VIEW
CURB OPENING FOR FLUME

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.

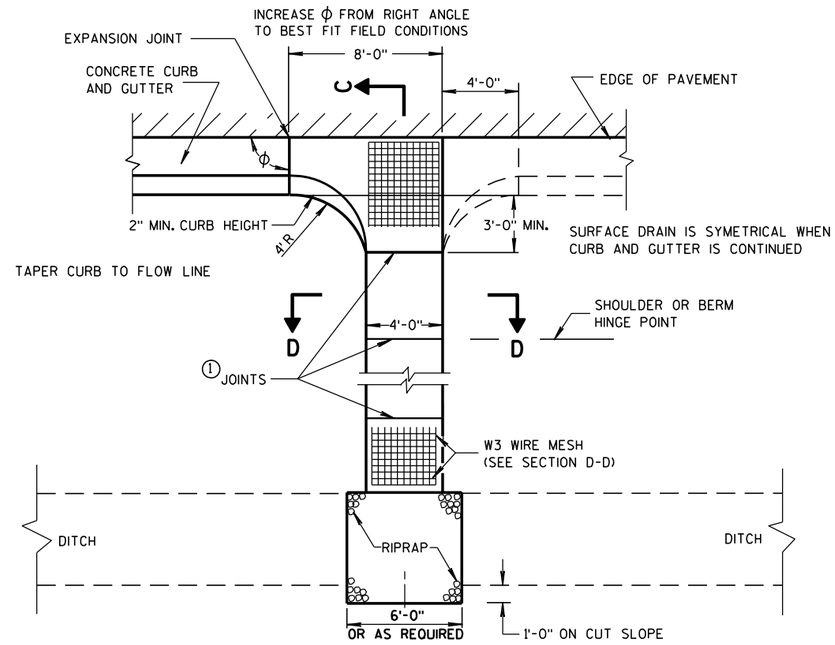
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

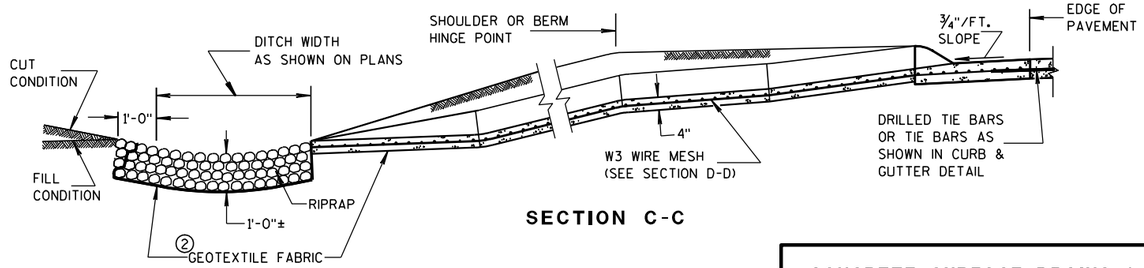
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

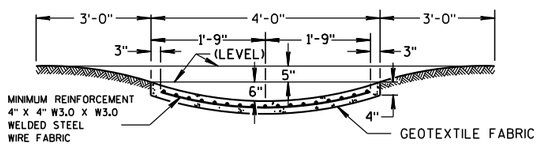
③ CONCRETE SURFACE DRAIN



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
98
MENT
FHWA

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S.D.D. 8 D 4-5

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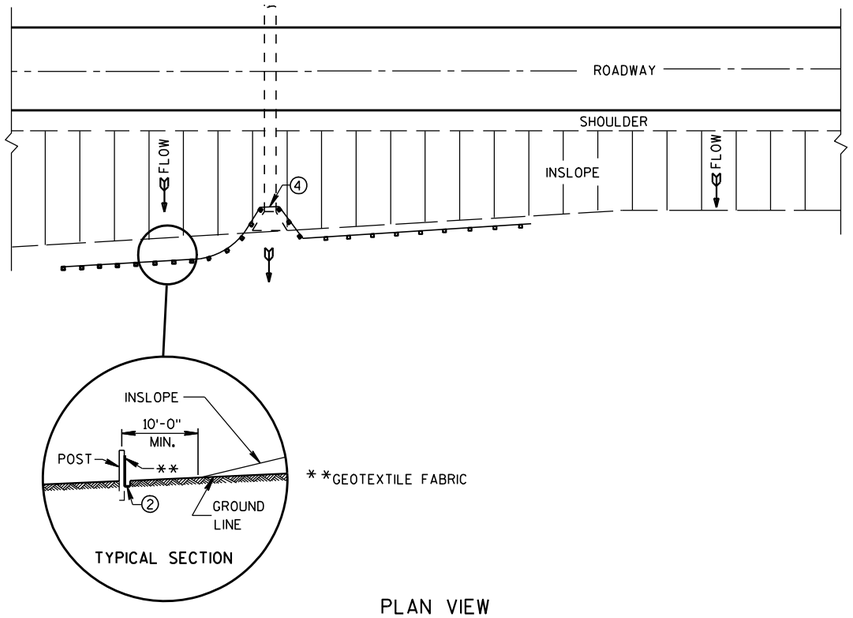
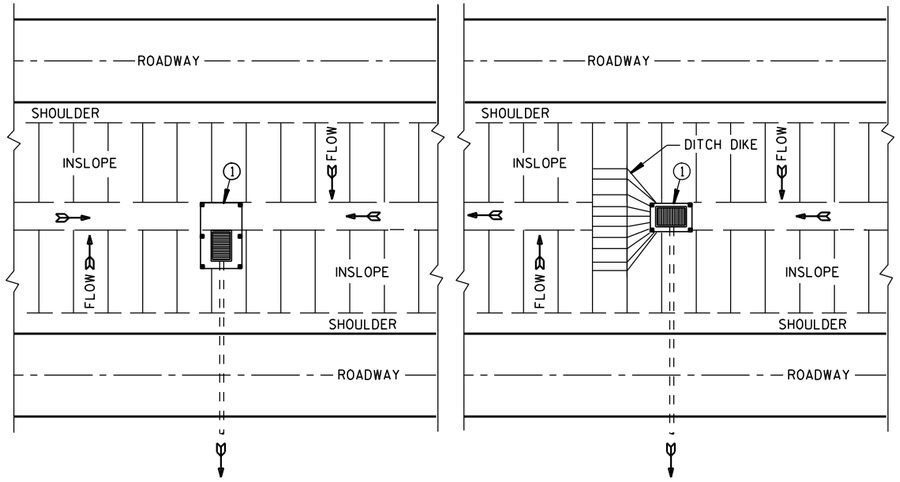
S.D.D. 8 D 4-5



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.

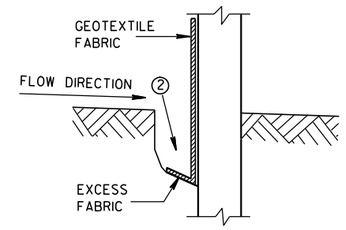
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

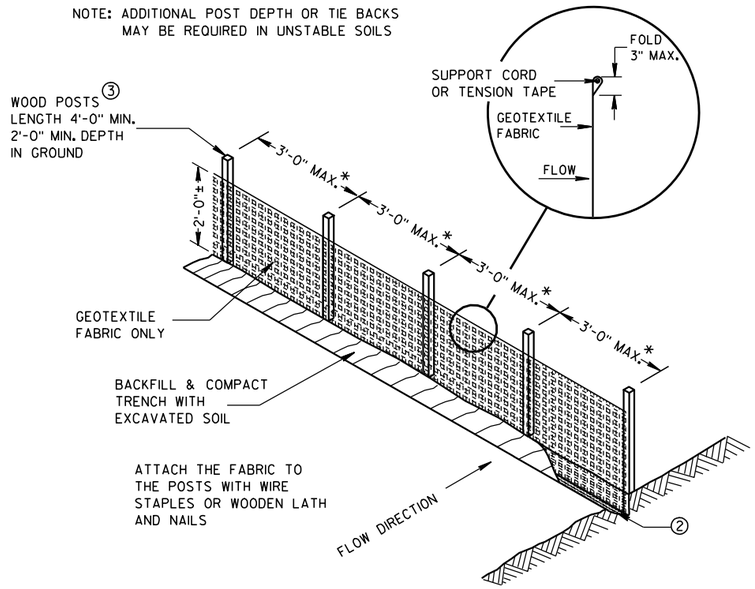
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

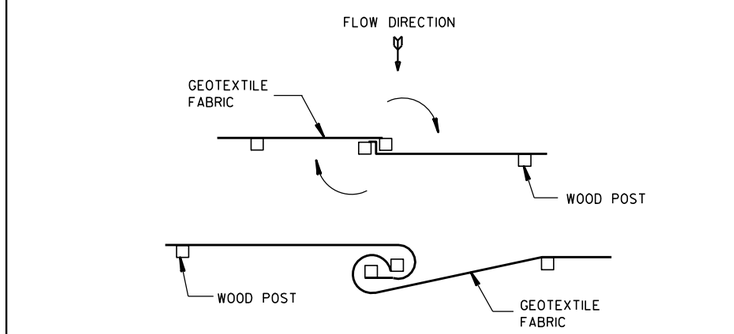
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



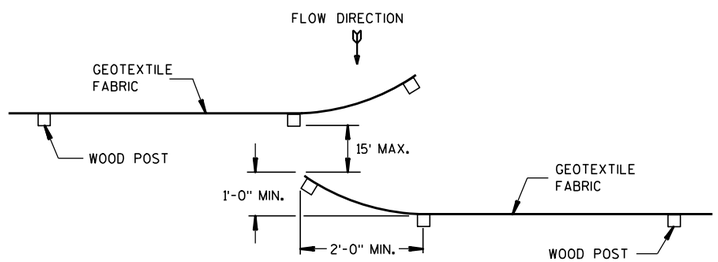
TRENCH DETAIL



SILT FENCE

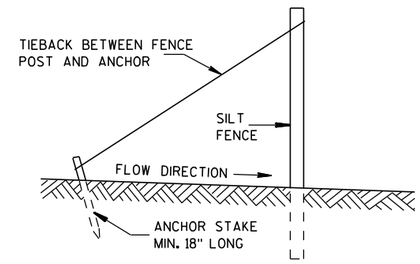


TWIST METHOD



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

METAL APRON ENDWALLS

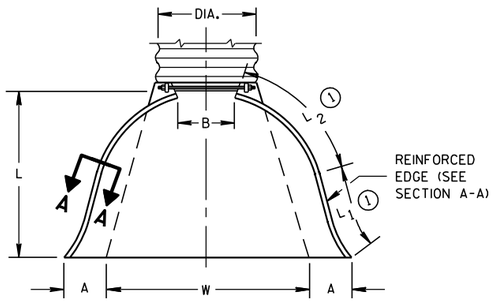
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

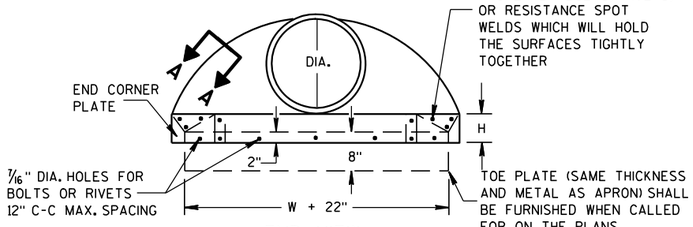
REINFORCED CONCRETE APRON ENDWALLS

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

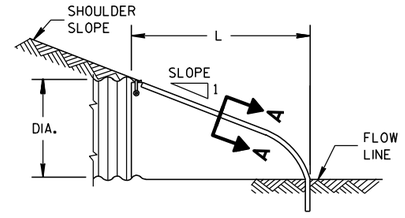
*MINIMUM
**MAXIMUM



PLAN VIEW

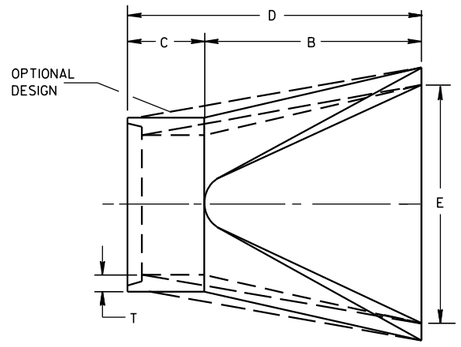


END VIEW

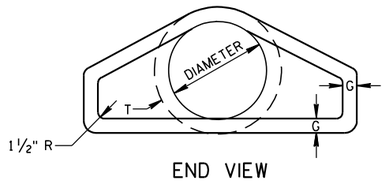


SIDE ELEVATION

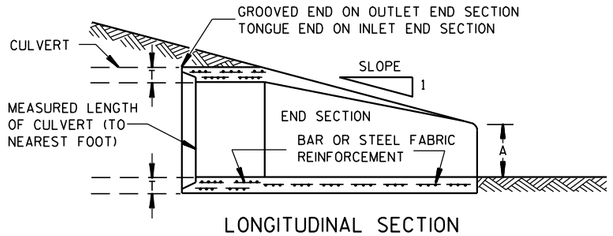
METAL ENDWALLS



PLAN

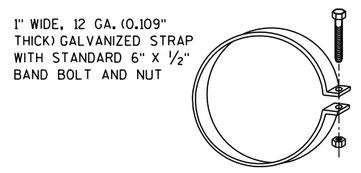


END VIEW



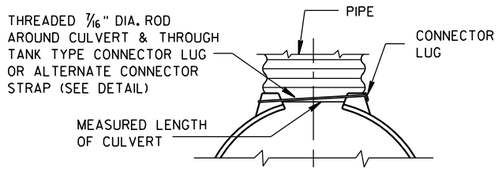
LONGITUDINAL SECTION

CONCRETE ENDWALLS

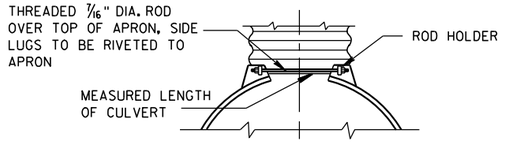


ALTERNATE FOR TYPE 1 CONNECTION

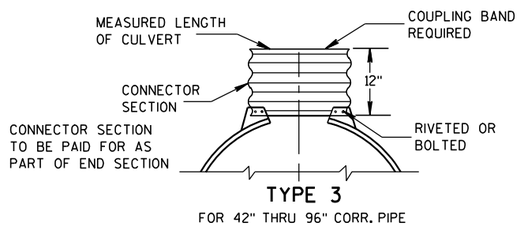
END SECTION CONNECTOR STRAP



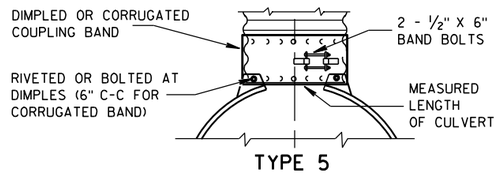
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

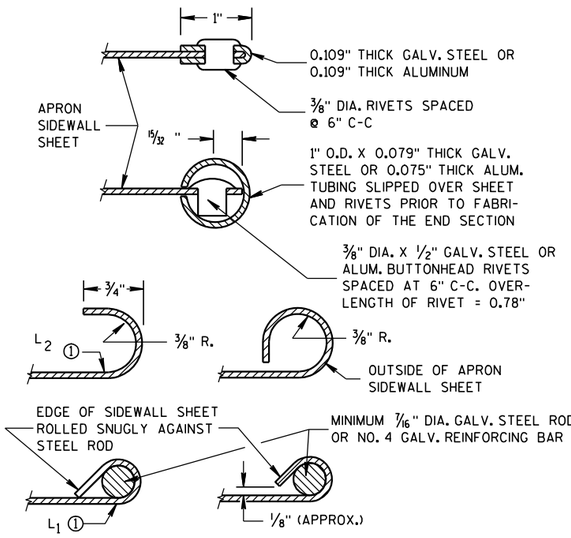
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

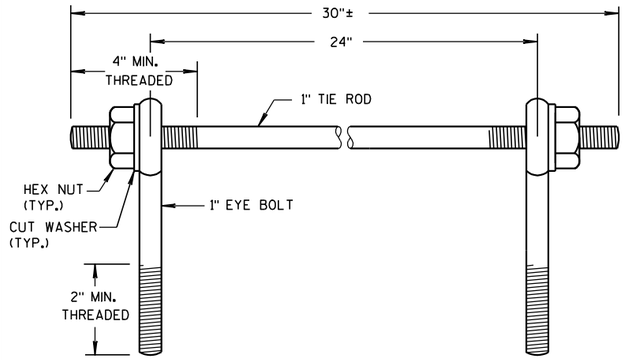
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

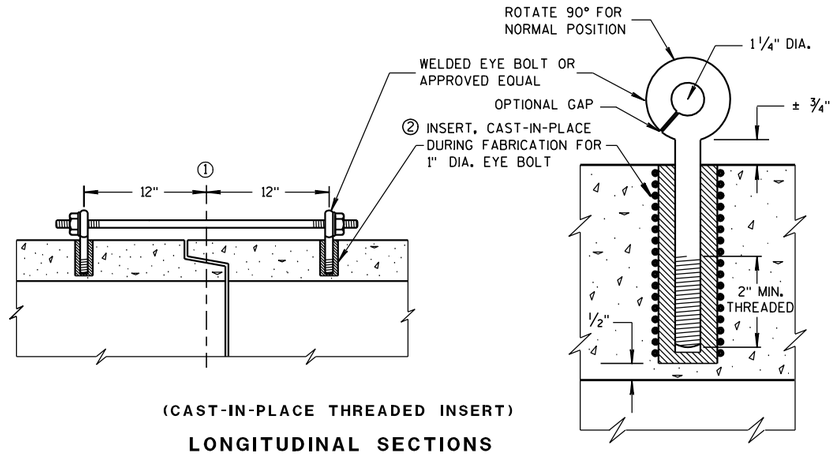
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

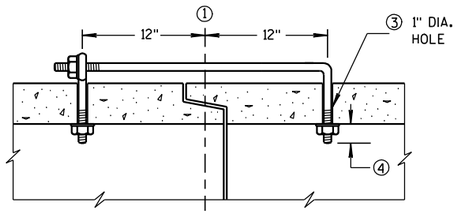
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

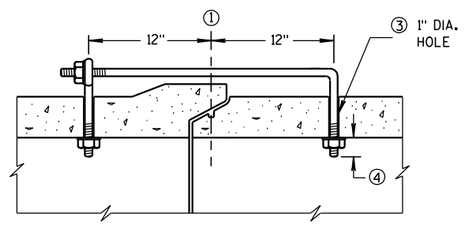
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

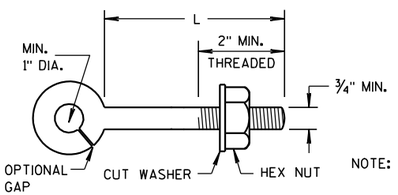


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

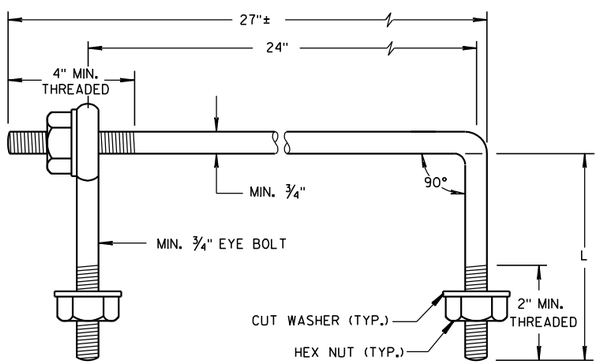
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

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

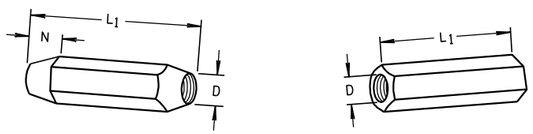
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

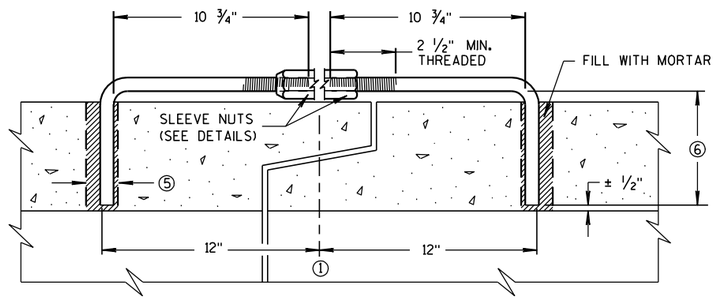
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

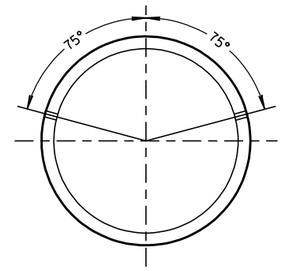
SLEEVE NUTS



LONGITUDINAL SECTION

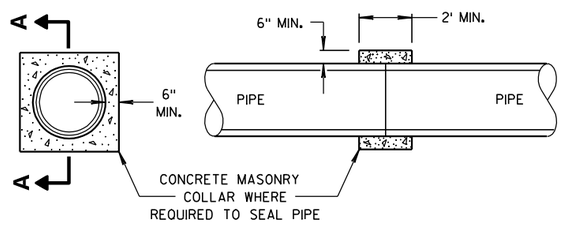
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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 ENGINEER
101
FHWA

6

S.D.D. 8 F 4-7

GENERAL NOTES

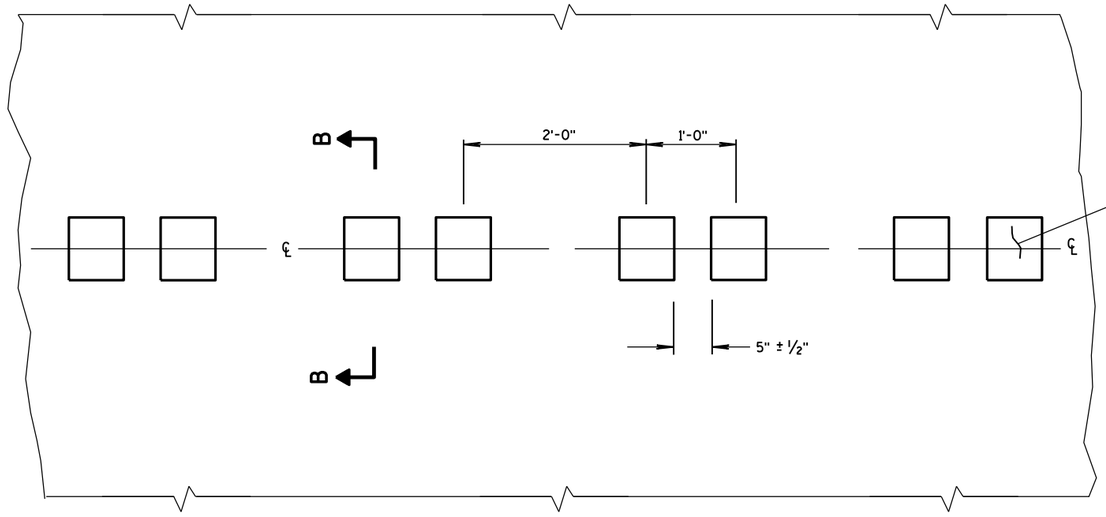
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

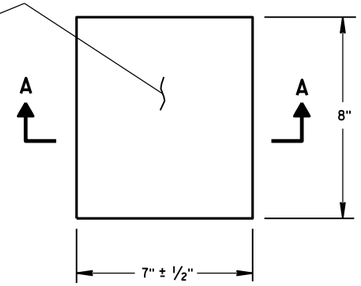
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

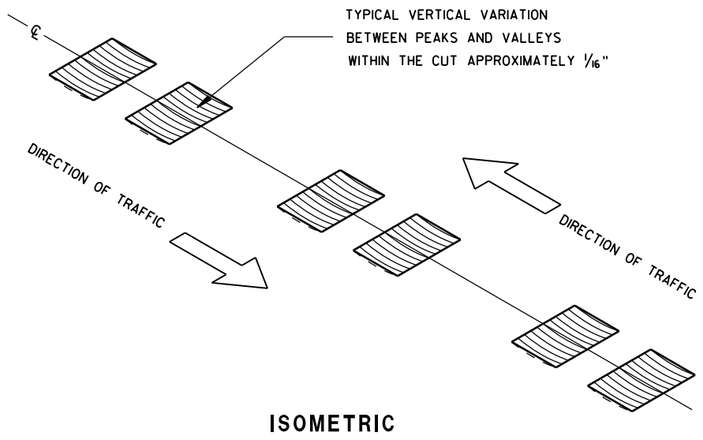


PLAN VIEW
CENTER LINE WITH GROOVES

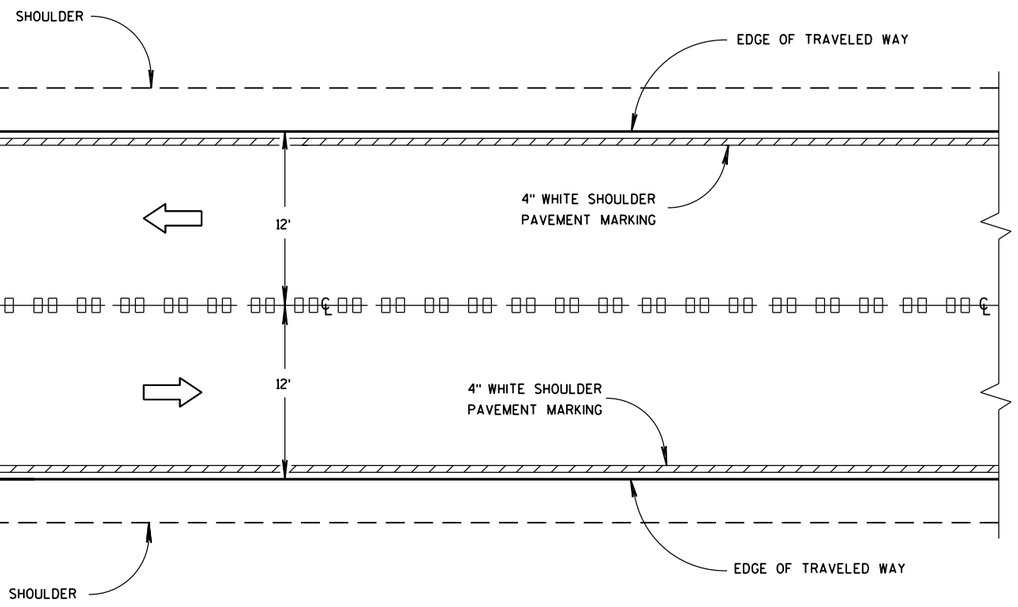


PLAN VIEW
(SINGLE GROOVE)

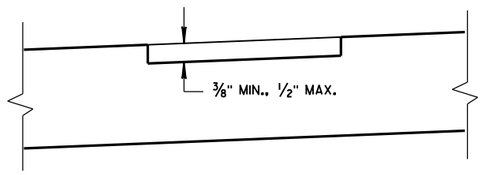
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



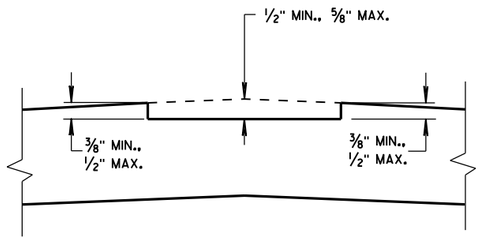
ISOMETRIC



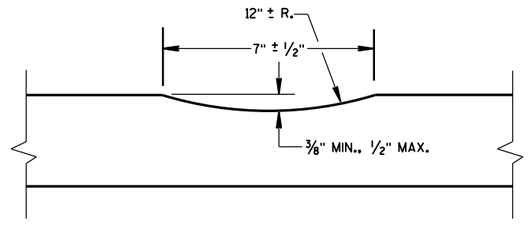
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



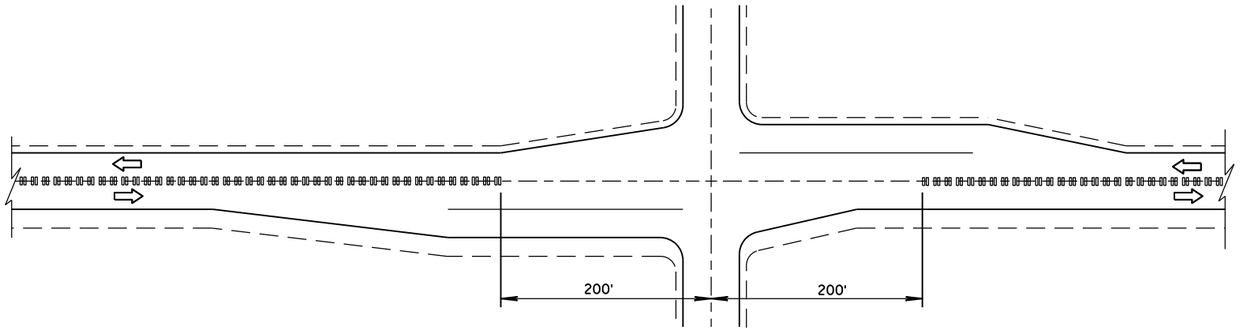
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

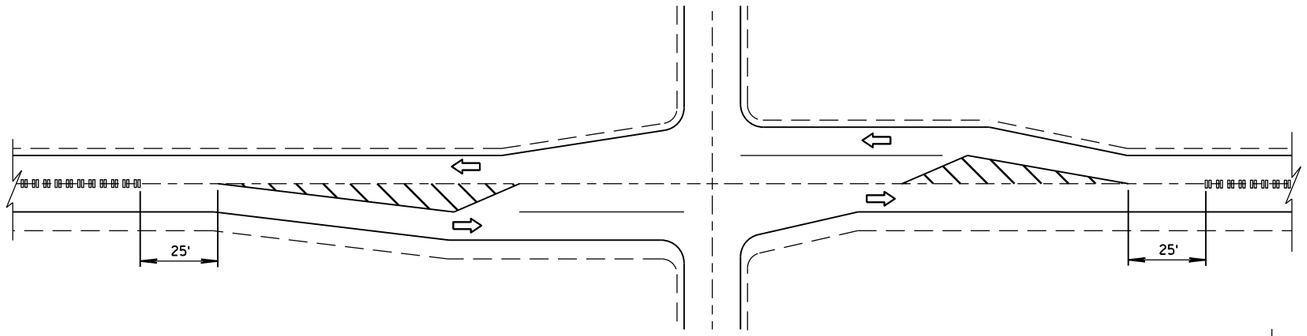
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

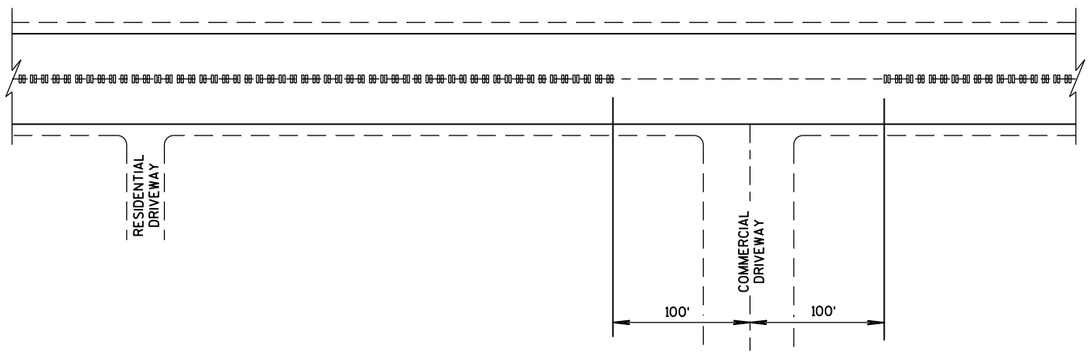
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

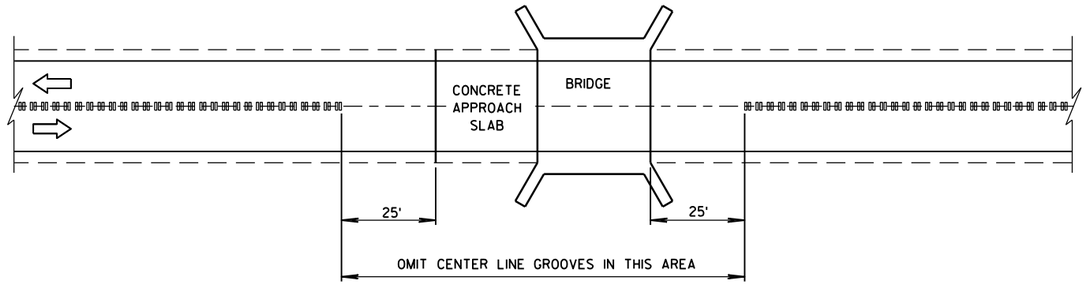


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

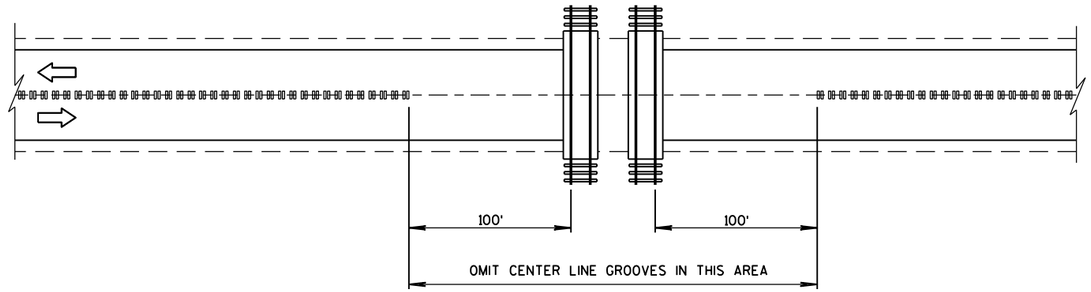


CENTER LINE GROOVES AT DRIVEWAYS (1)

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

S.D.D. 13 A 11-2b

6

S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

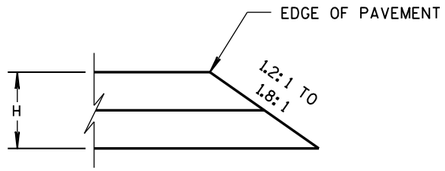
APPROVED

5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

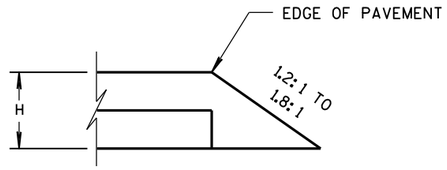
NT

FHWA



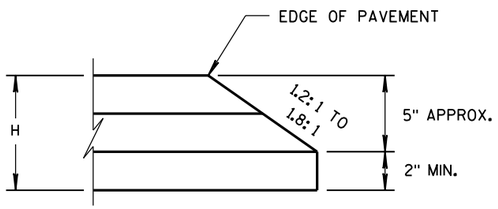
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



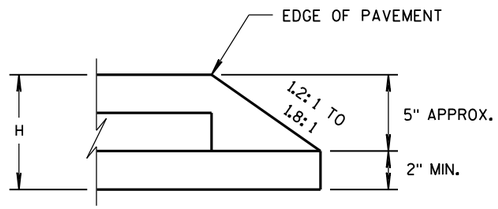
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

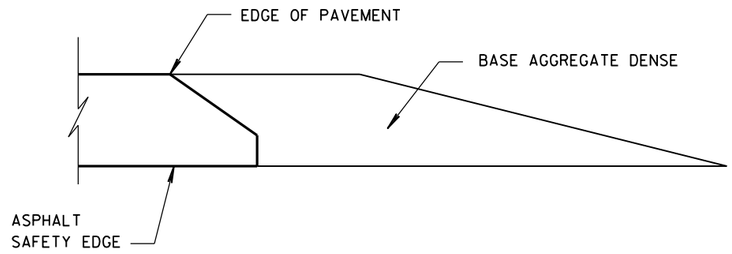
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

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S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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.

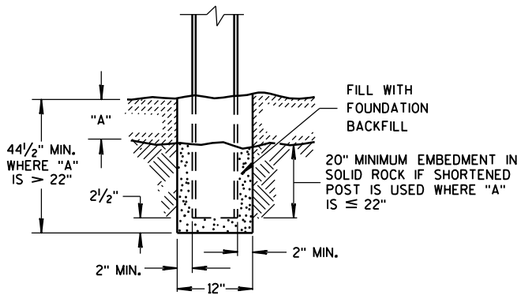
② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ 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.

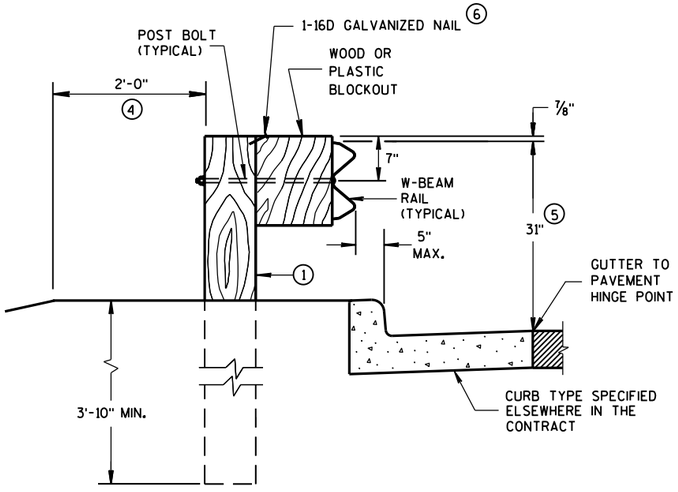
④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

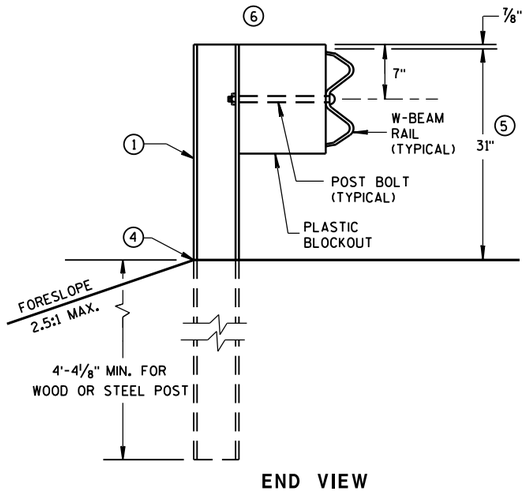
⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



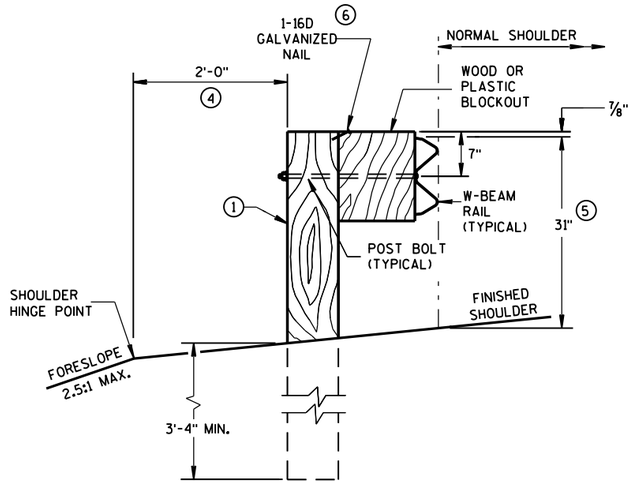
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ③



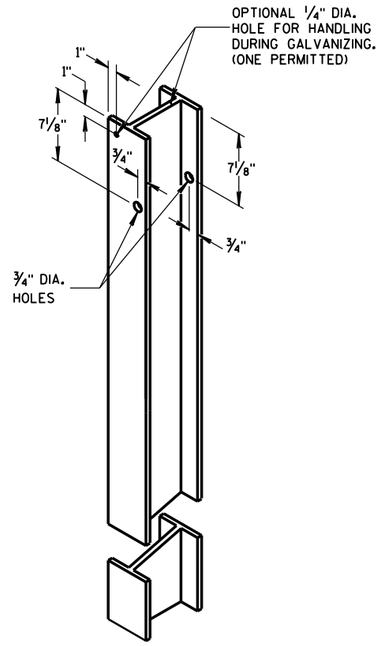
END VIEW
LOCATED ALONG A CURBED ROADWAY



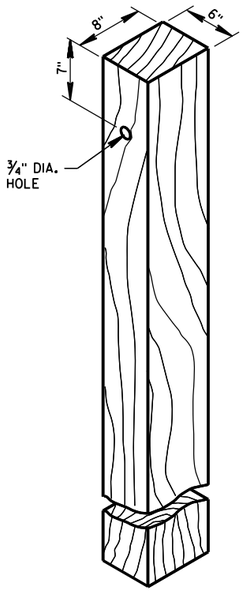
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



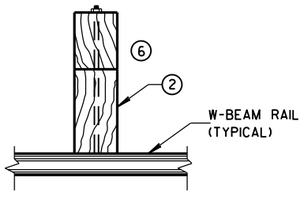
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



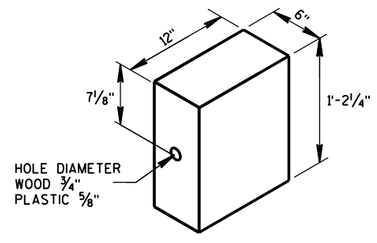
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



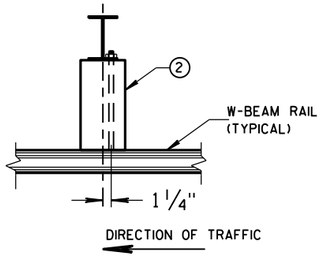
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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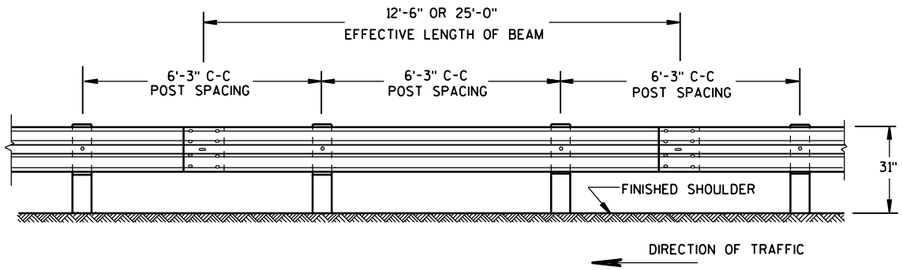
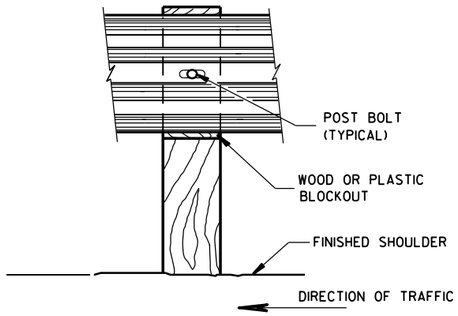
S.D.D. 14 B 42-4a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

7. PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

8. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

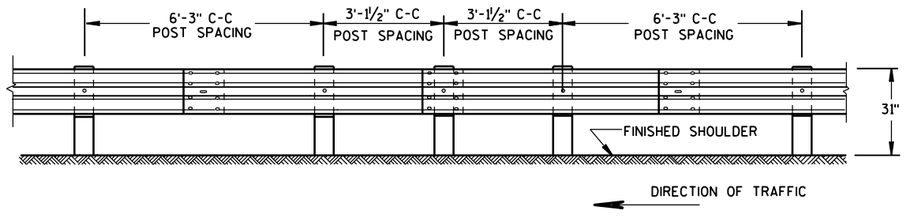
9. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

10. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

11. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

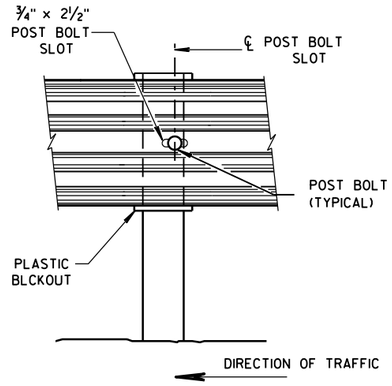
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

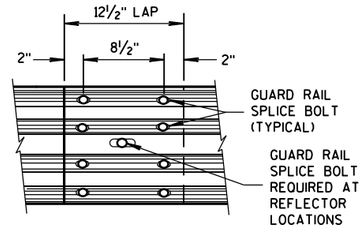


FRONT VIEW

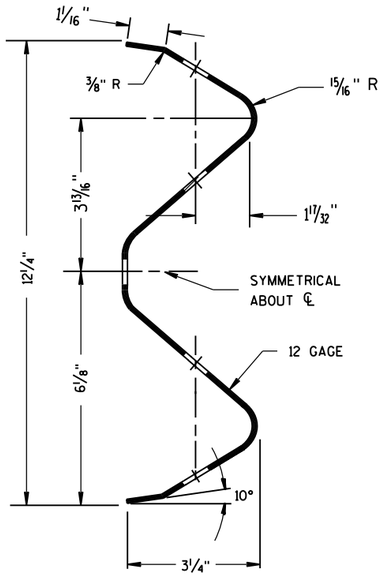
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



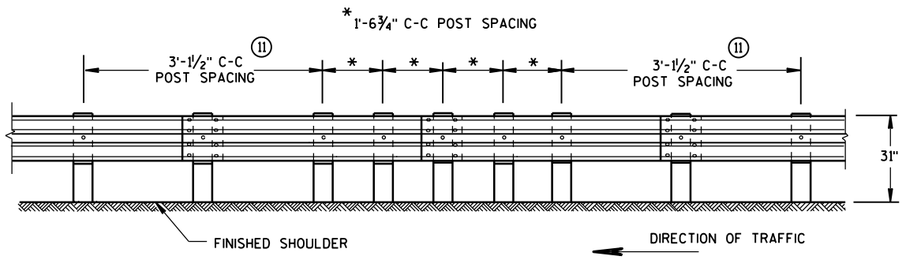
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

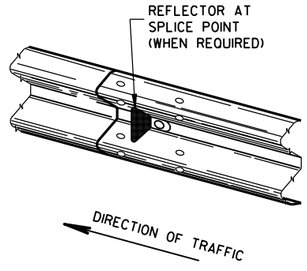


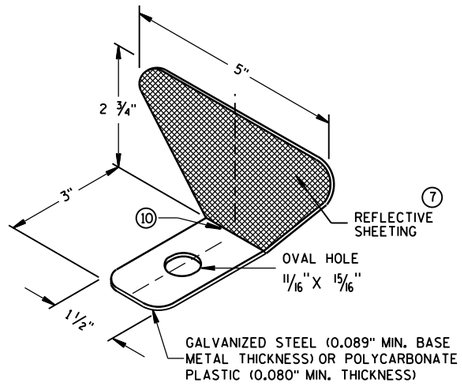
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION 7

REFLECTOR SPACING 8

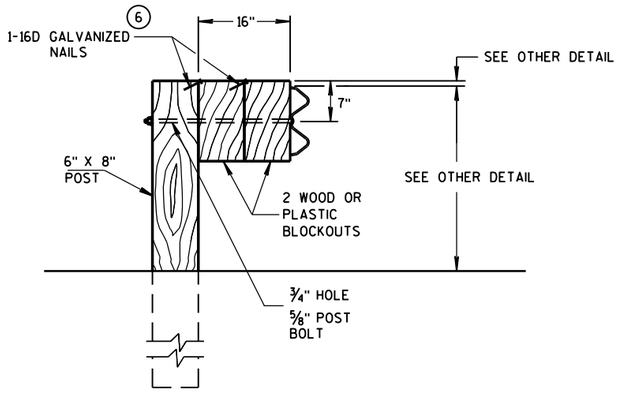
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 9	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 10	

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

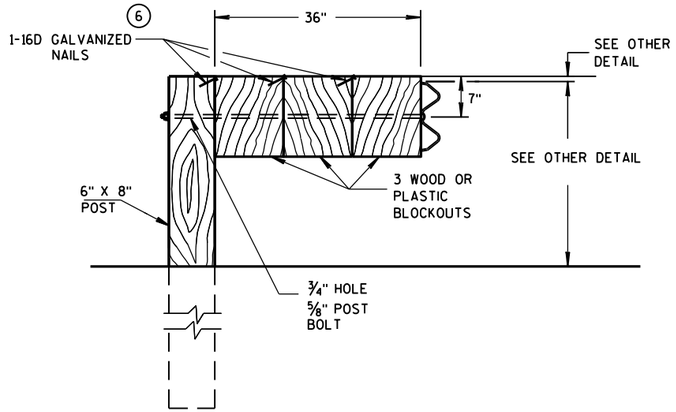
6

S.D.D. 14 B 42-4b



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.

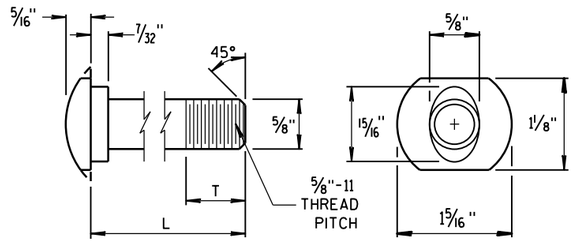


DETAIL FOR 36" BLOCKOUT DEPTH

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.

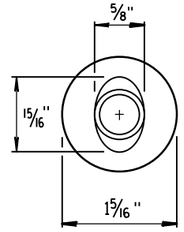
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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

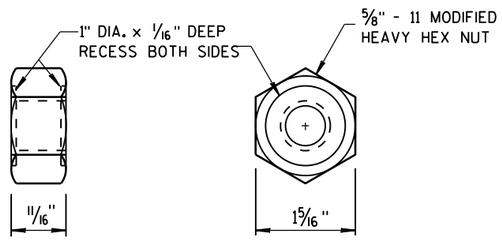


POST BOLT TABLE

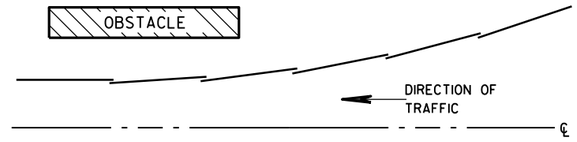
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

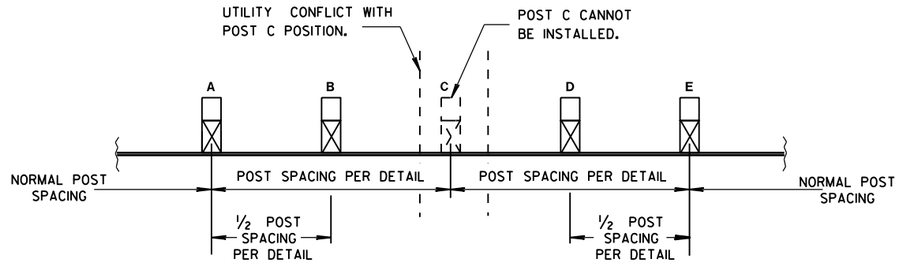


POST BOLT, SPLICE BOLT AND RECESS NUT

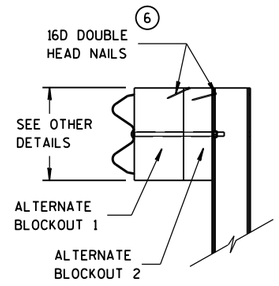


PLAN VIEW

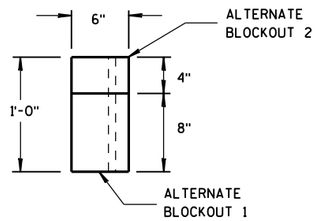
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 42-4c

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 MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

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

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

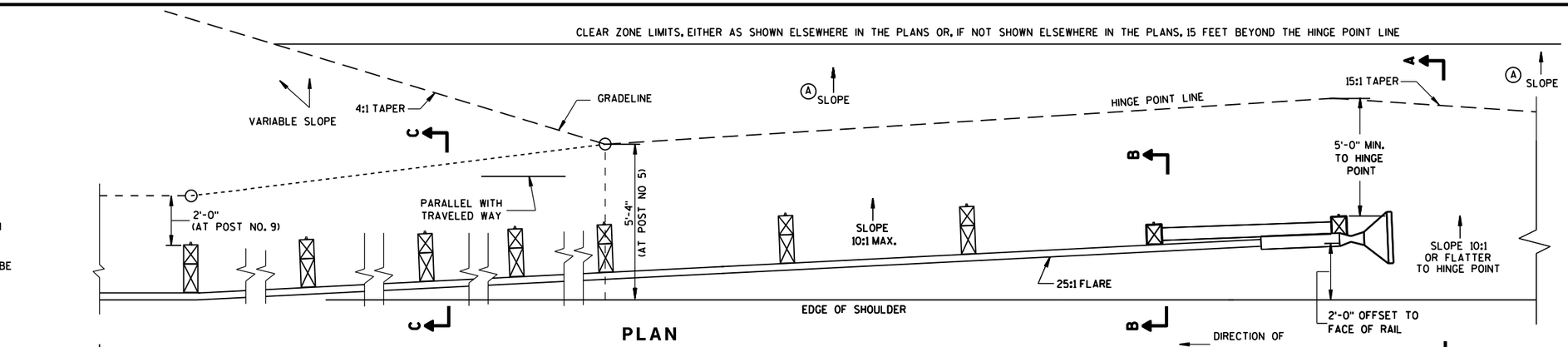
SEE SDD 14B42 FOR MORE INFORMATION.

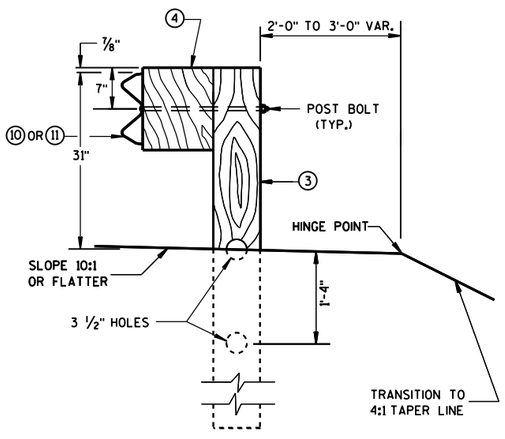
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

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

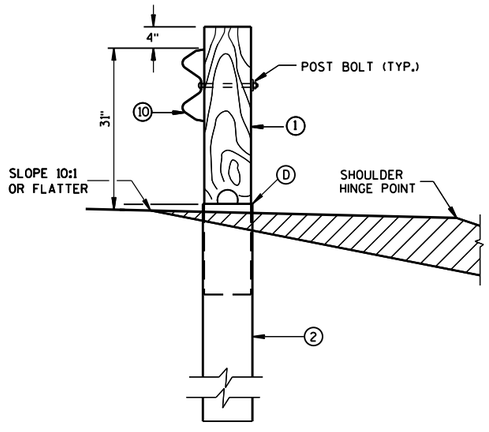
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" 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.

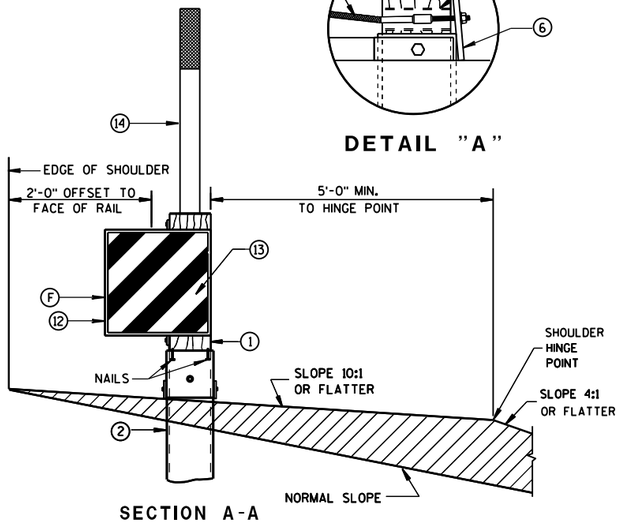




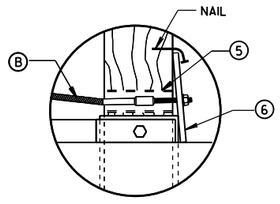
SECTION C-C
TYPICAL AT POST NOS. 3-9



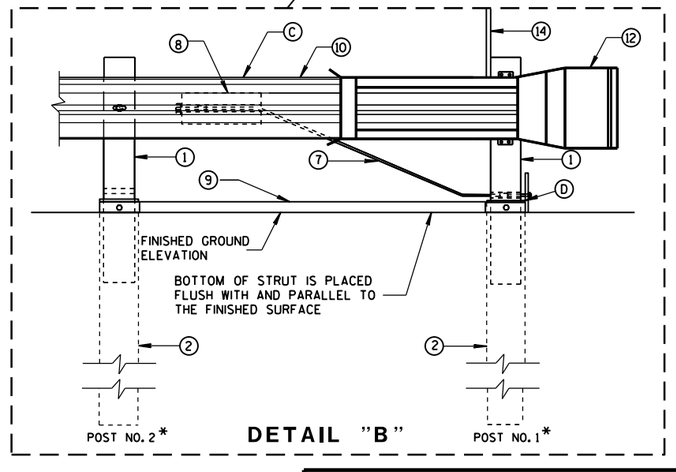
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



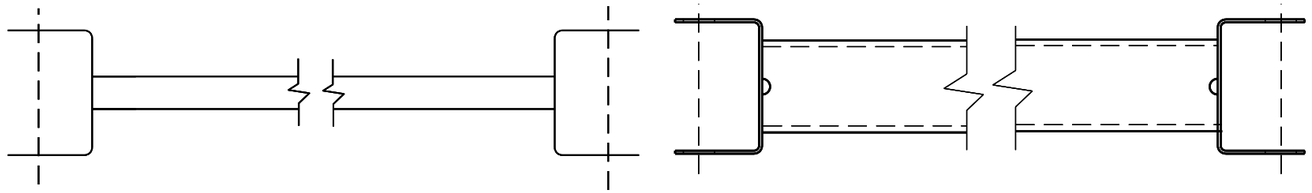
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

S.D.D. 14 B 44-2a

S.D.D. 14 B 44-2a



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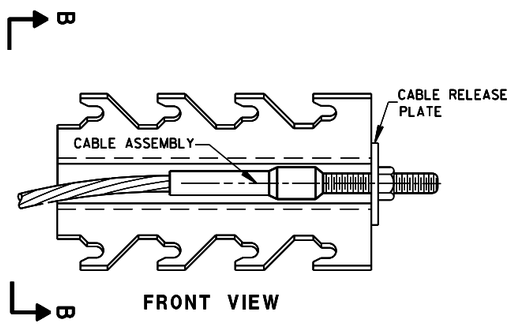
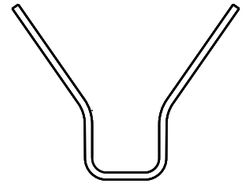
GENERIC GROUND STRUT

BILL OF MATERIALS

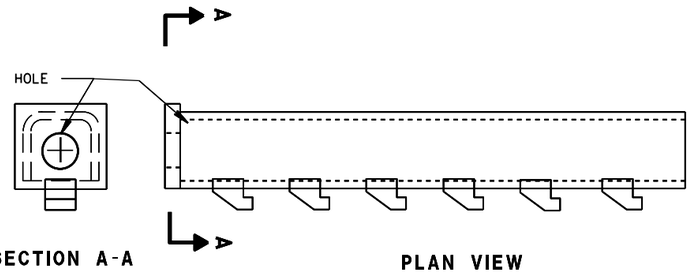
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
①	WOOD BREAKAWAY POST
②	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND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



FRONT VIEW



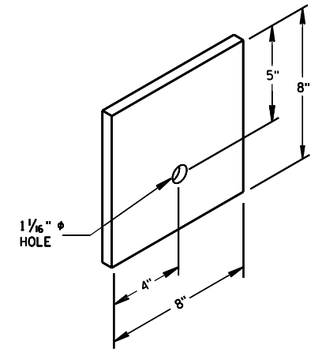
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX ⑧ Ⓗ



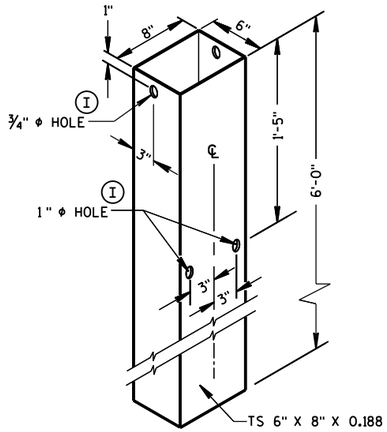
BEARING PLATE ⑥

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

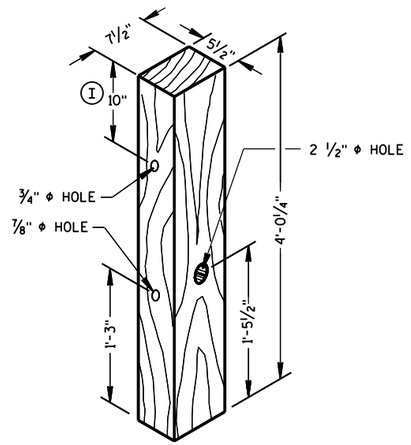
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 44-2b

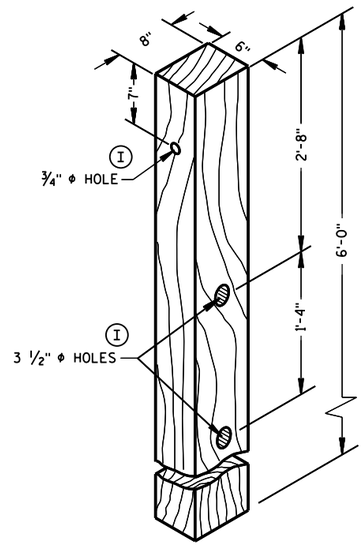


FOUNDATION TUBE (2)



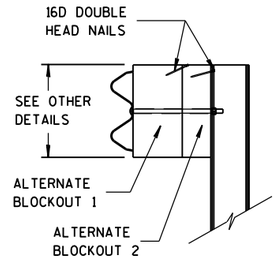
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

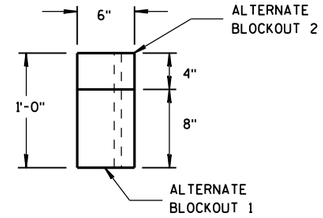


POSTS NUMBER 3-9

WOOD CRT POST (3)

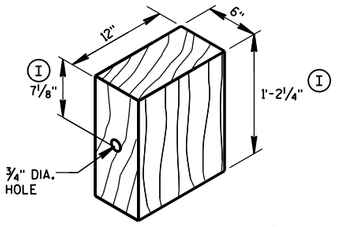


SIDE VIEW



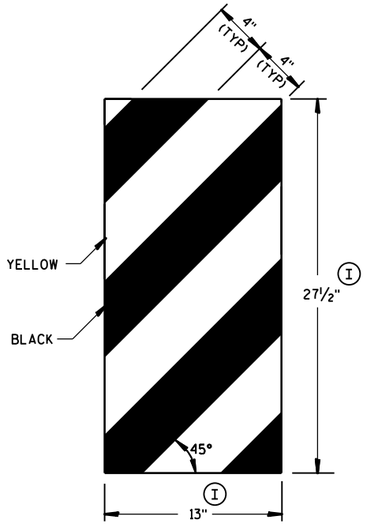
TOP VIEW

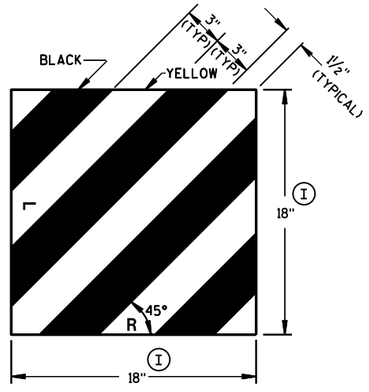
ALTERNATE WOOD BLOCKOUT DETAIL



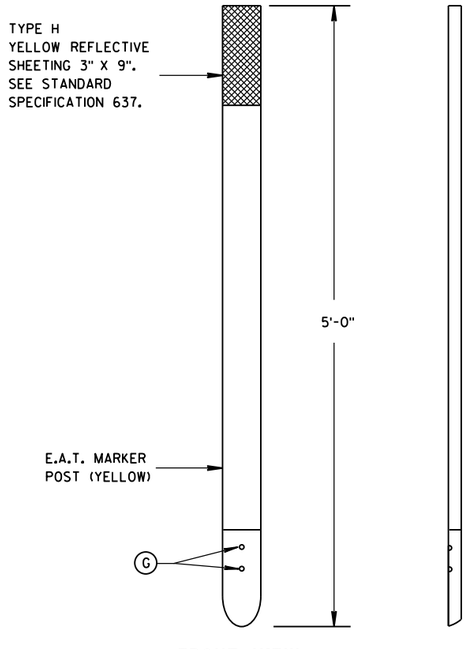
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





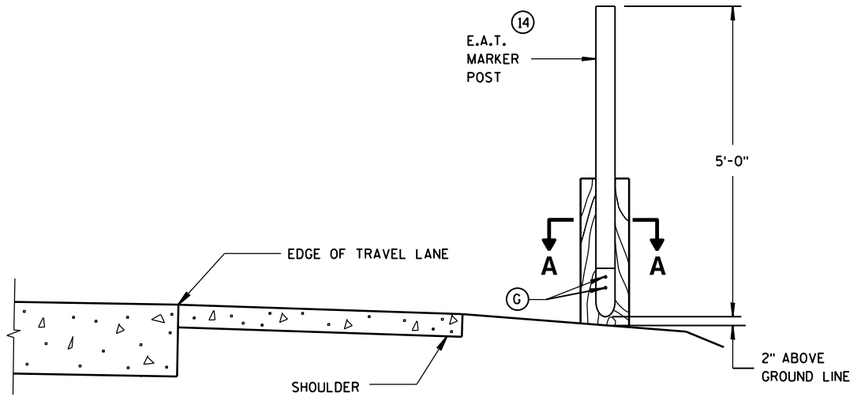
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

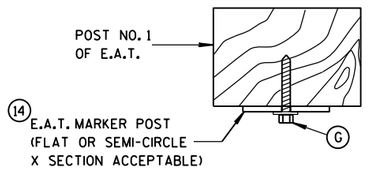
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

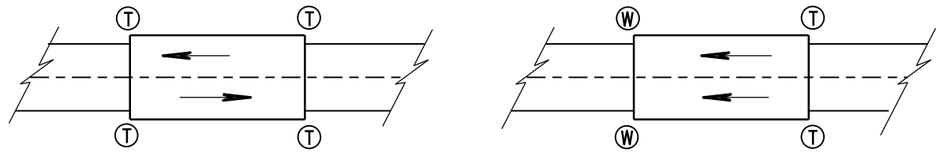
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 44-2c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

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

GENERAL NOTES

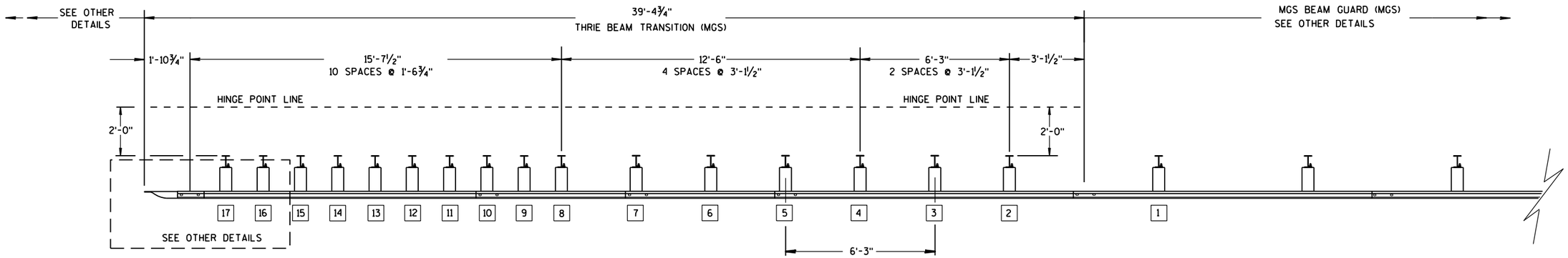
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

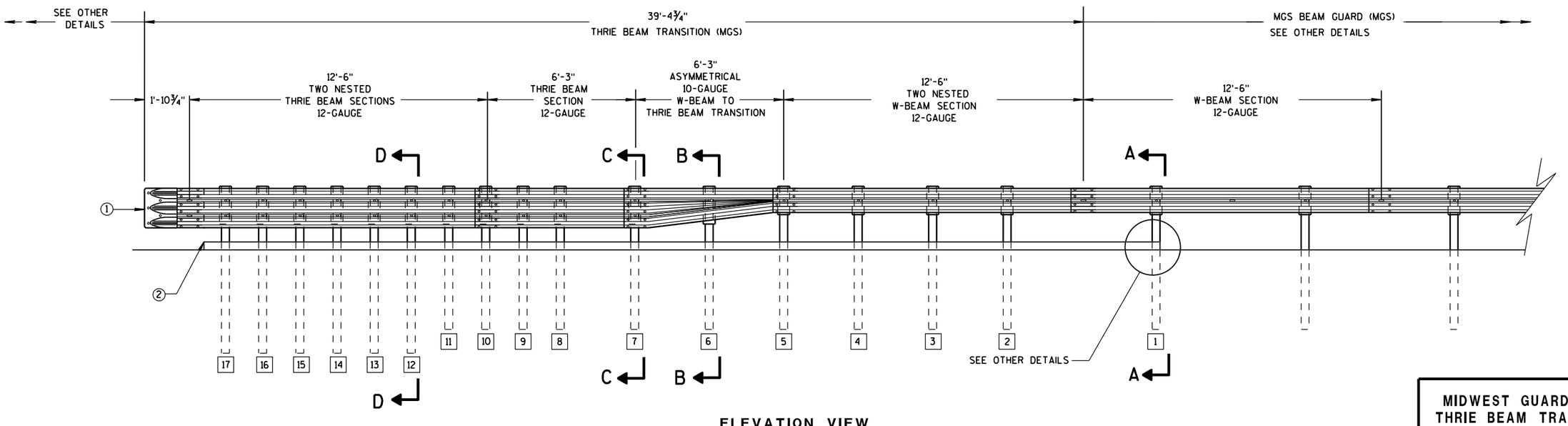
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

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

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



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 45-4a

6

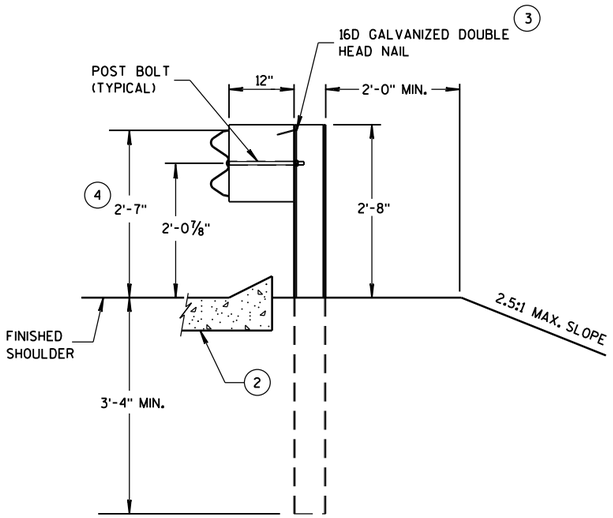
S.D.D. 14 B 45-4a

GENERAL NOTES

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

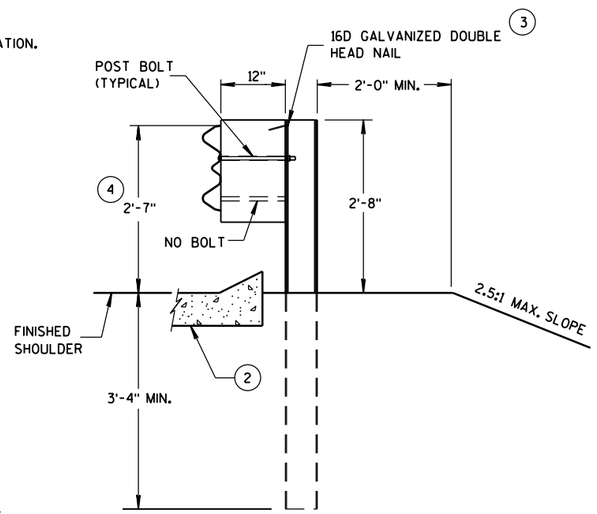
(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

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



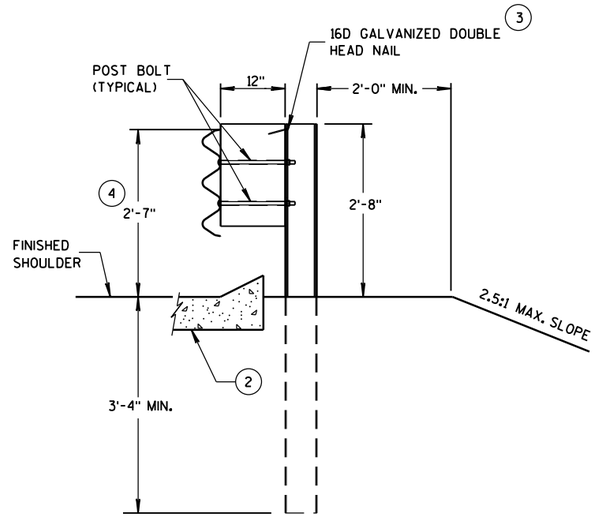
SECTION A-A

POSTS 1-5



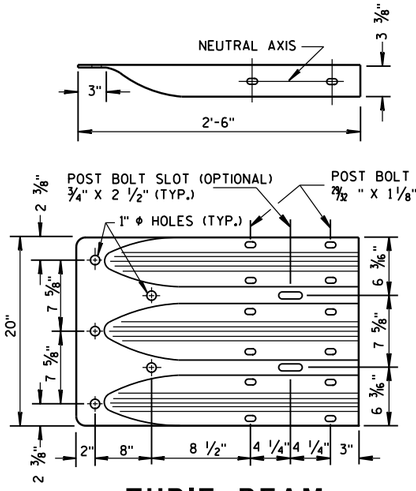
SECTION B-B

POST 6



SECTION C-C

POSTS 7-11



THRIE BEAM TERMINAL CONNECTOR

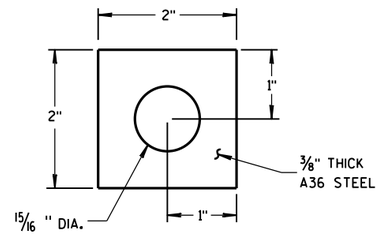
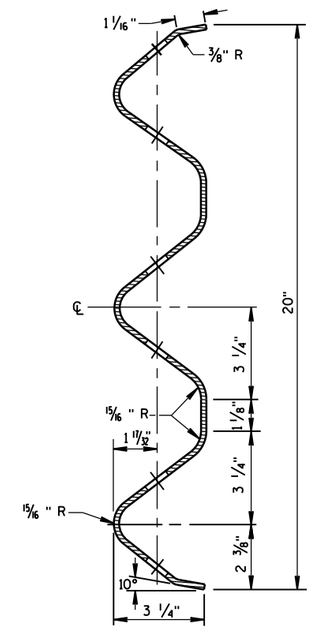
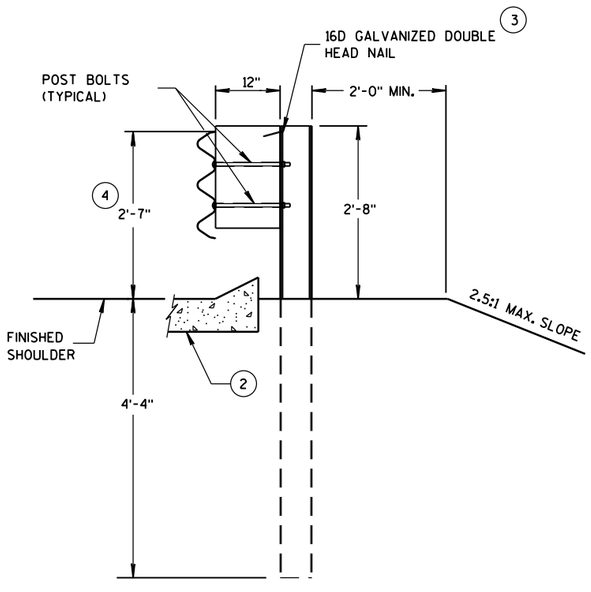


PLATE WASHER DETAIL

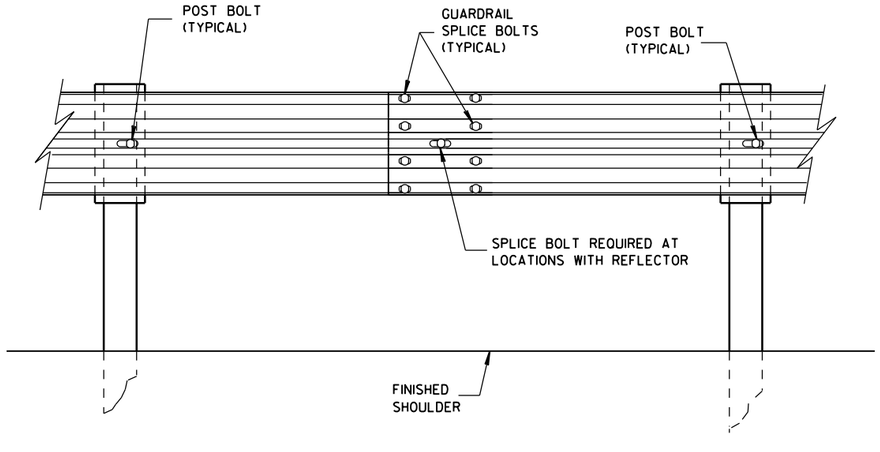


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-17



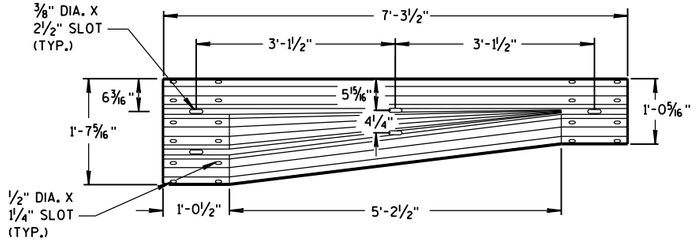
SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

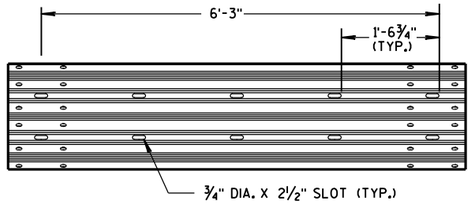
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

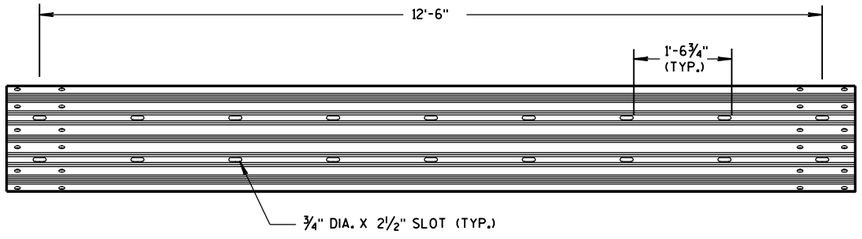
S.D.D. 14 B 45-4b



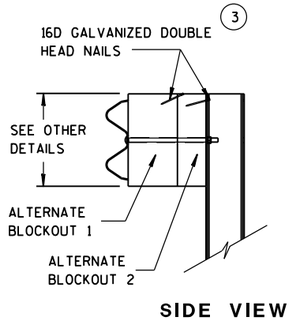
W-BEAM TO THRIE BEAM TRANSITION SECTION



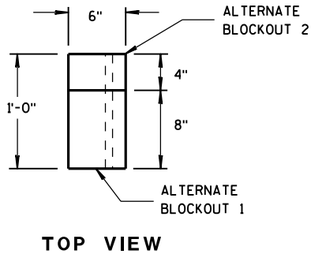
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

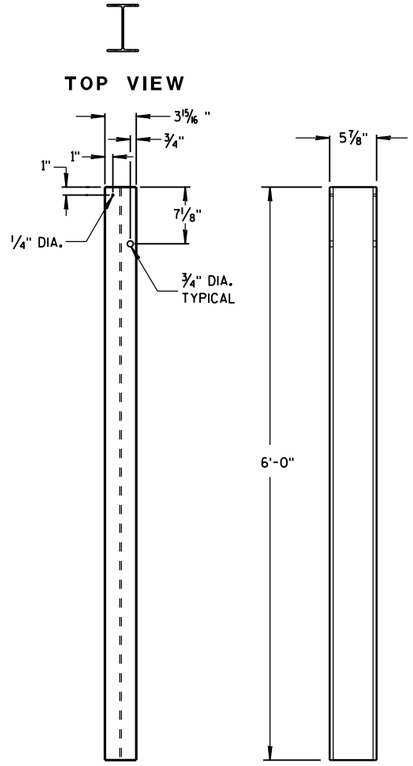


SIDE VIEW

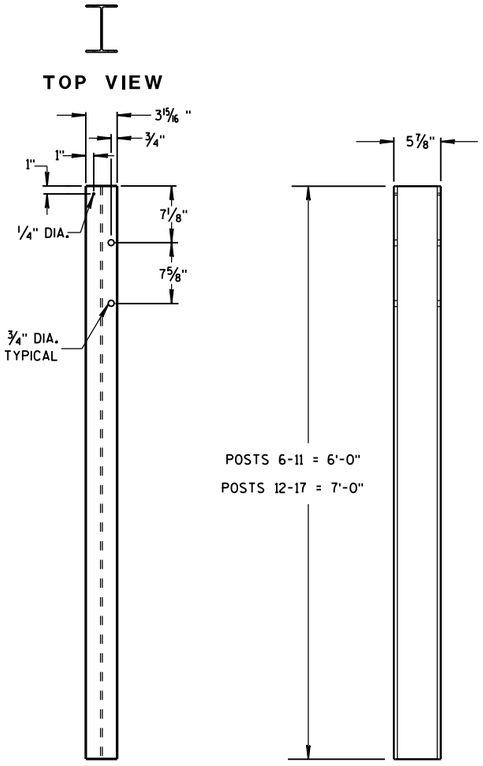


TOP VIEW

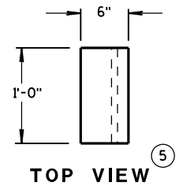
ALTERNATE WOOD BLOCKOUT DETAIL



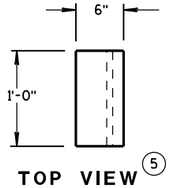
STEEL POSTS 1-5



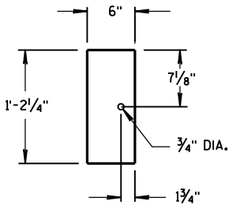
STEEL POSTS 6-17



TOP VIEW (5)

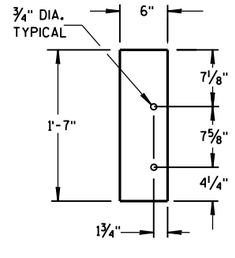


TOP VIEW (5)



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.

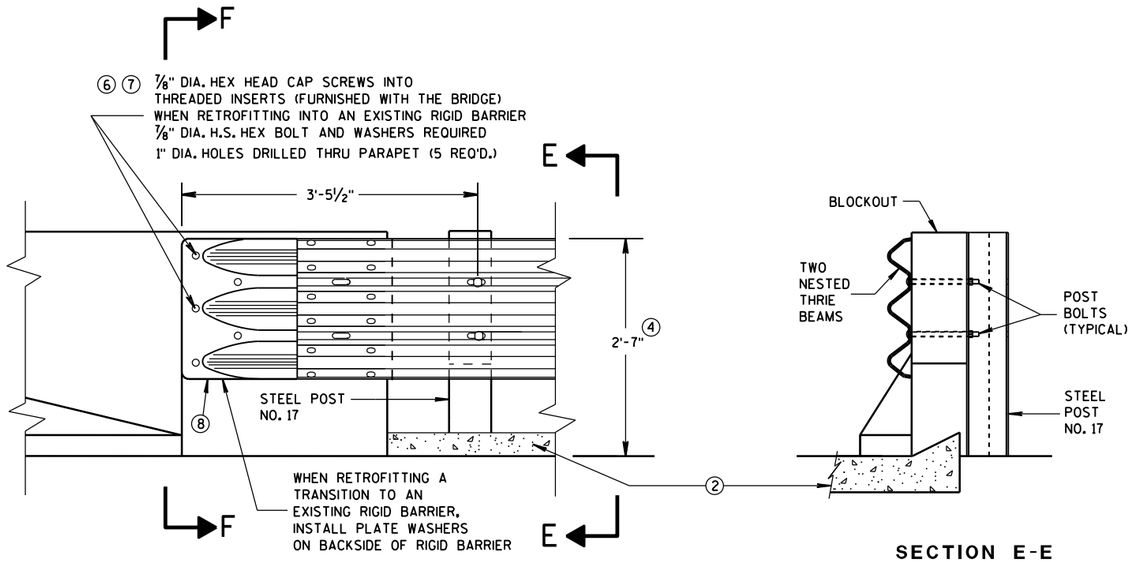
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 45-4c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

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

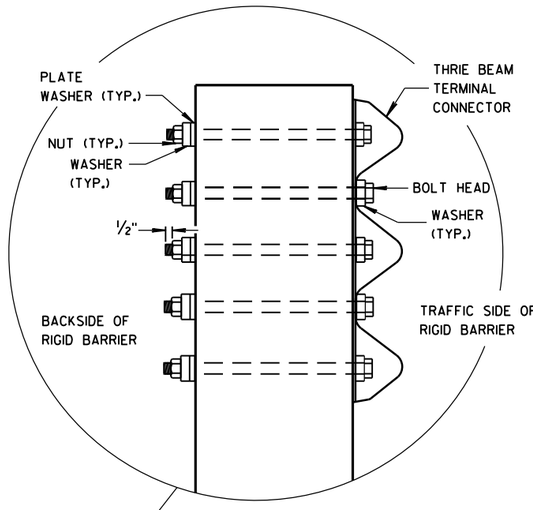
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

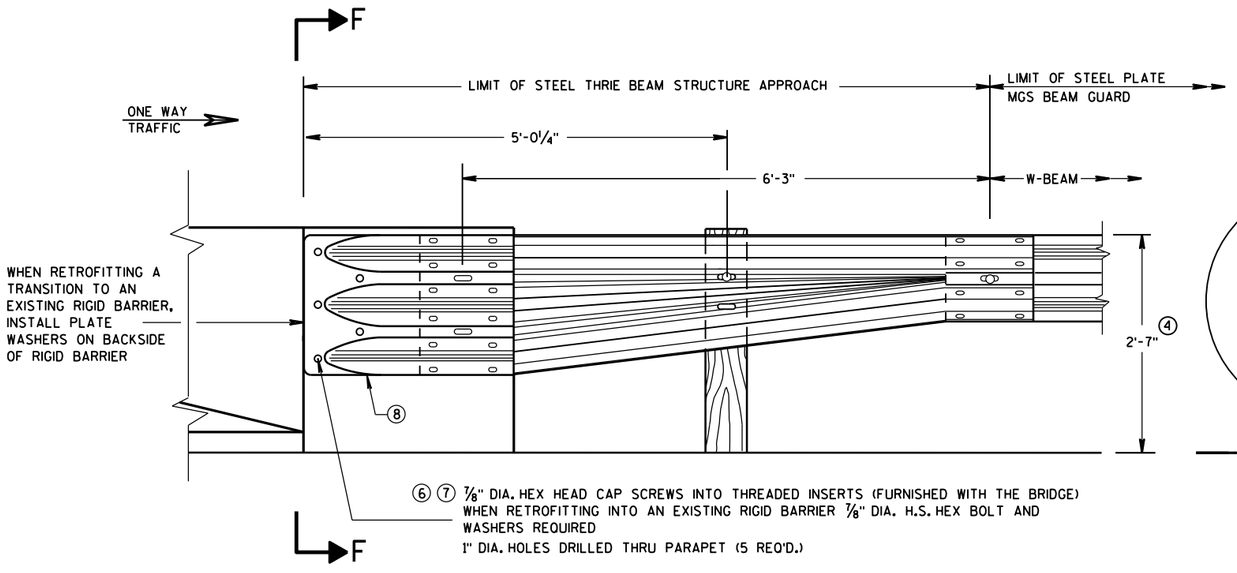
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

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

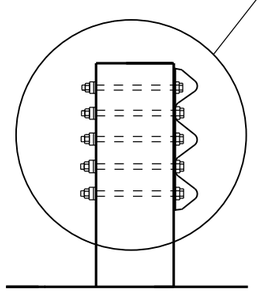
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

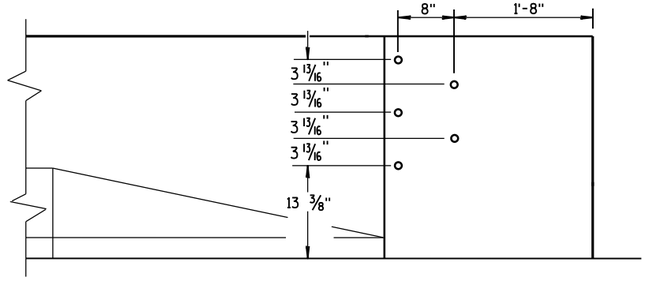




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 14 B 45-4d

6

S.D.D. 14 B 45-4d

GENERAL NOTES

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

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

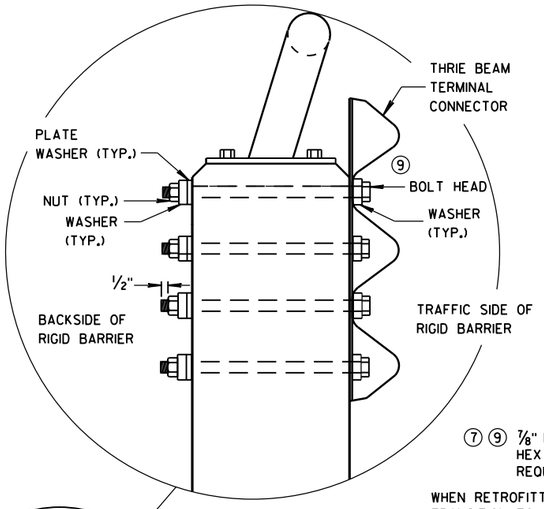
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

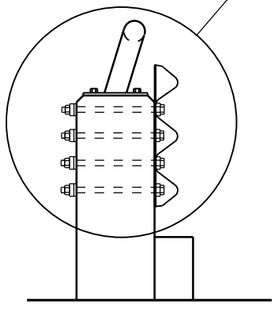
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

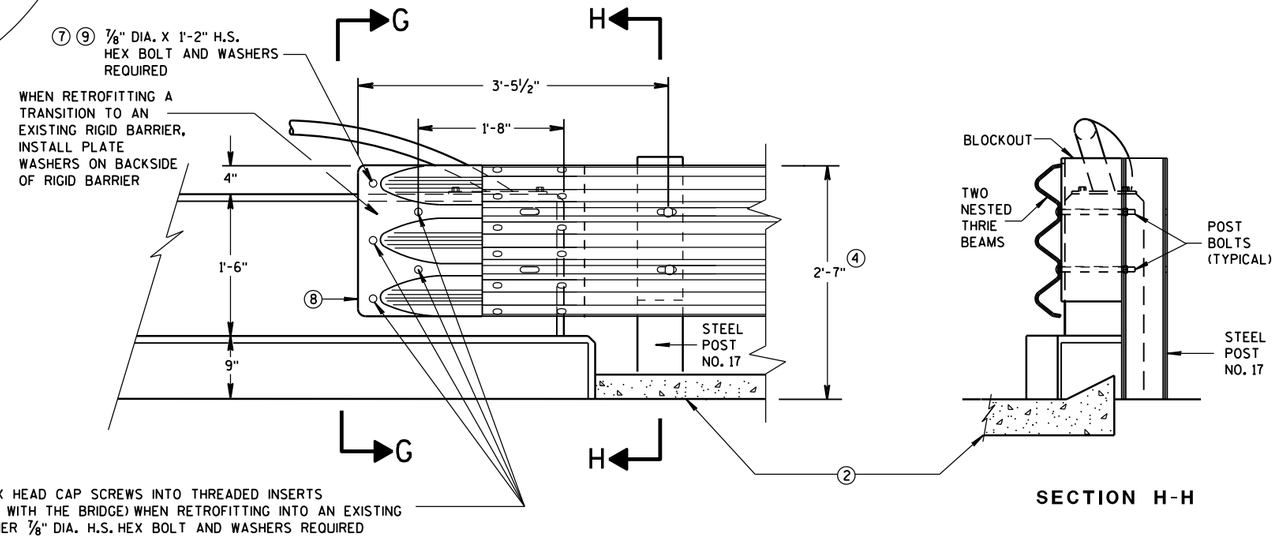
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





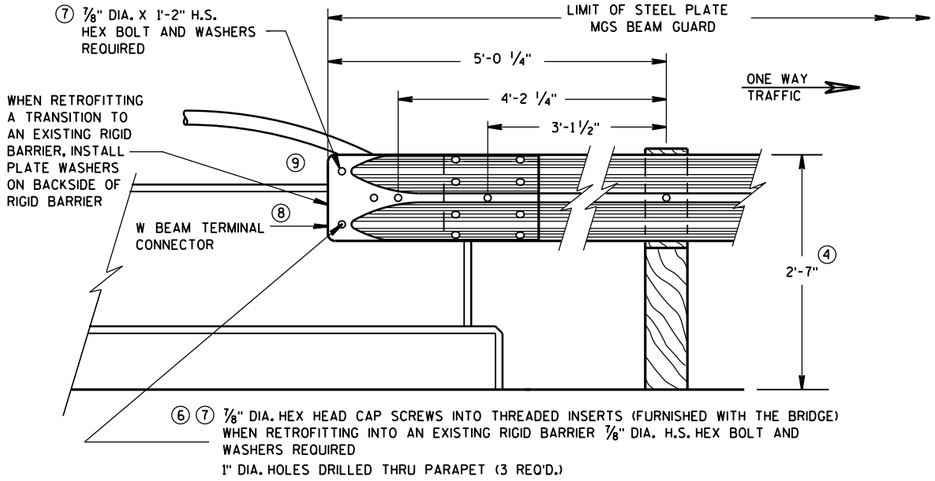
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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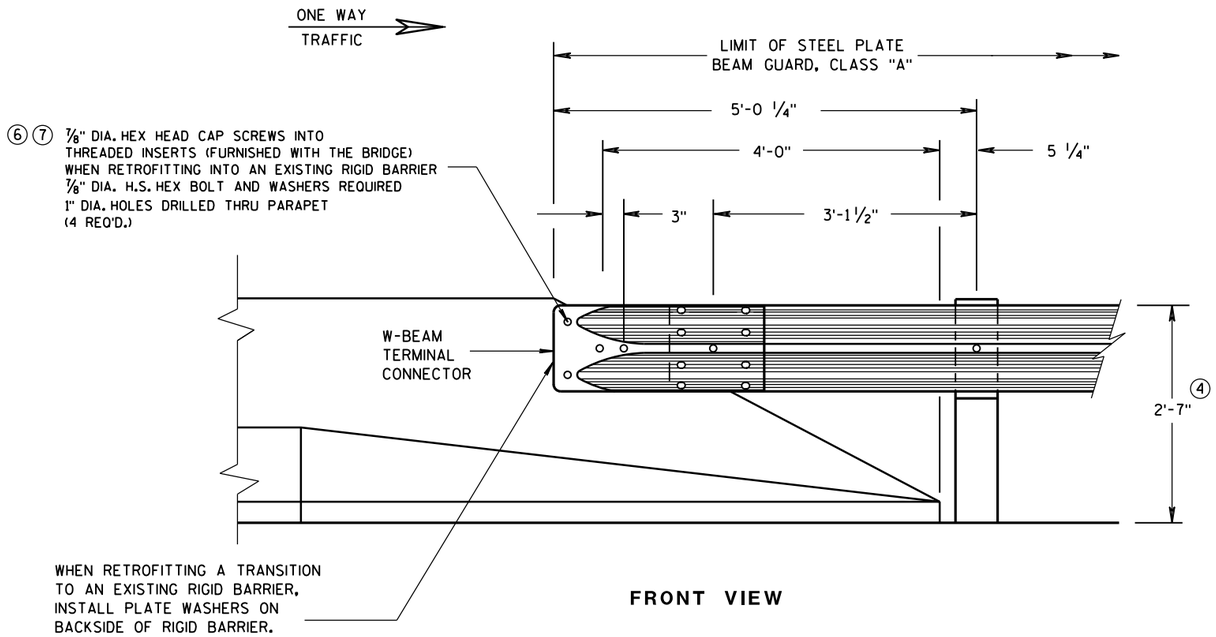


FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

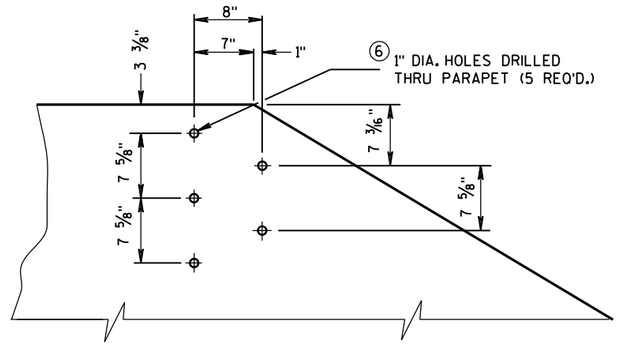
GENERAL NOTES

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

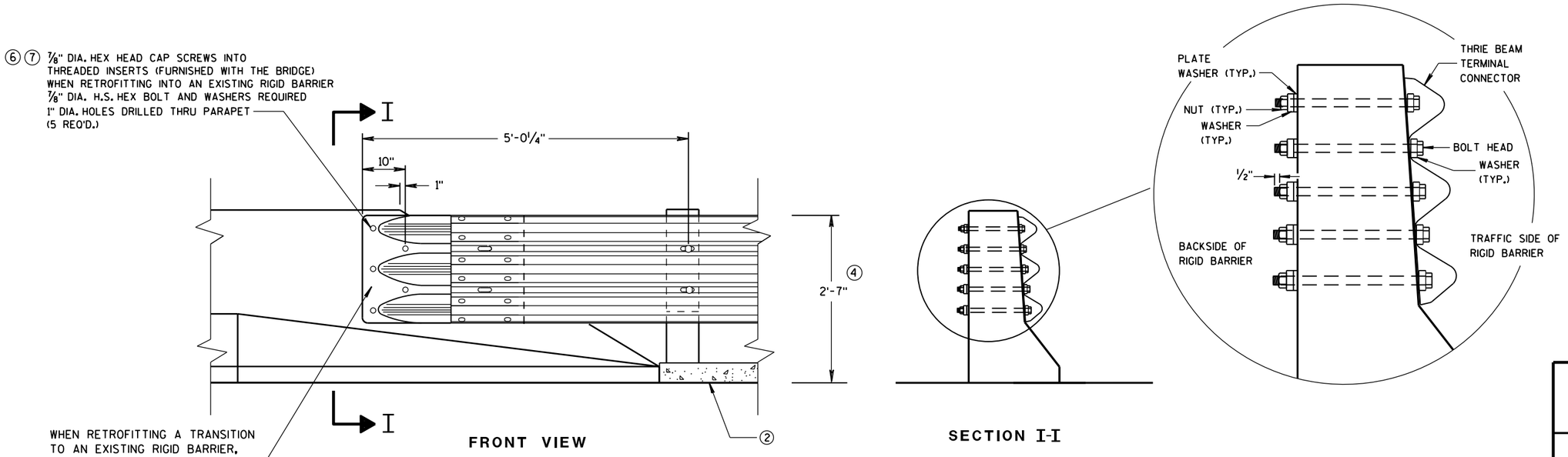
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

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

⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW

SECTION I-I

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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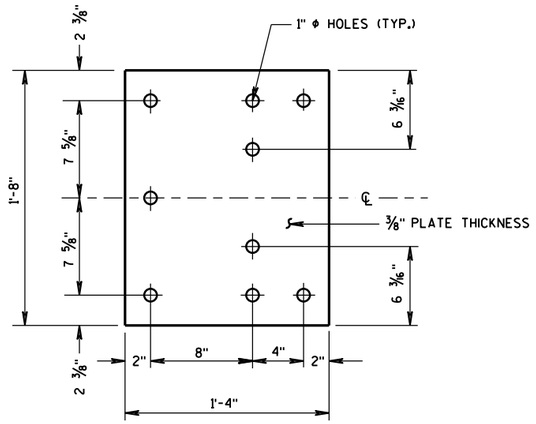
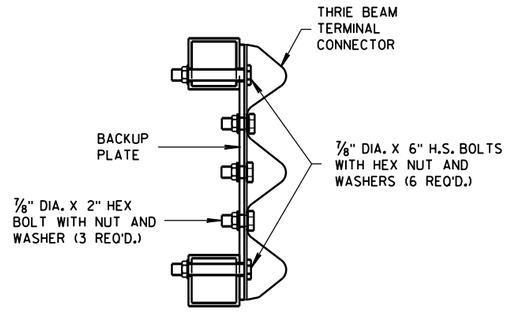
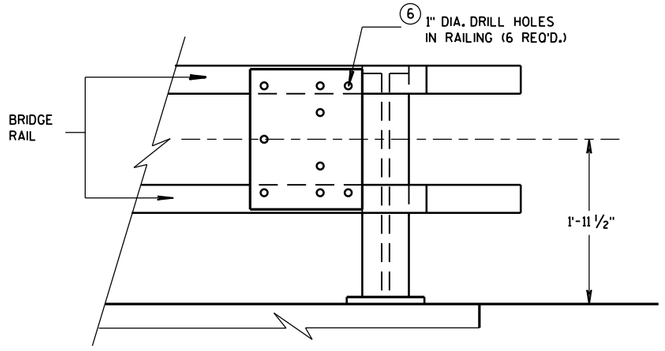


BACK-UP PLATE DETAIL



SECTION J-J

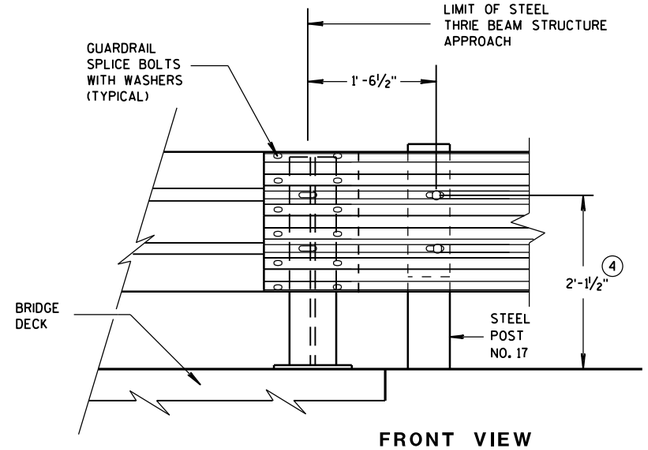


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

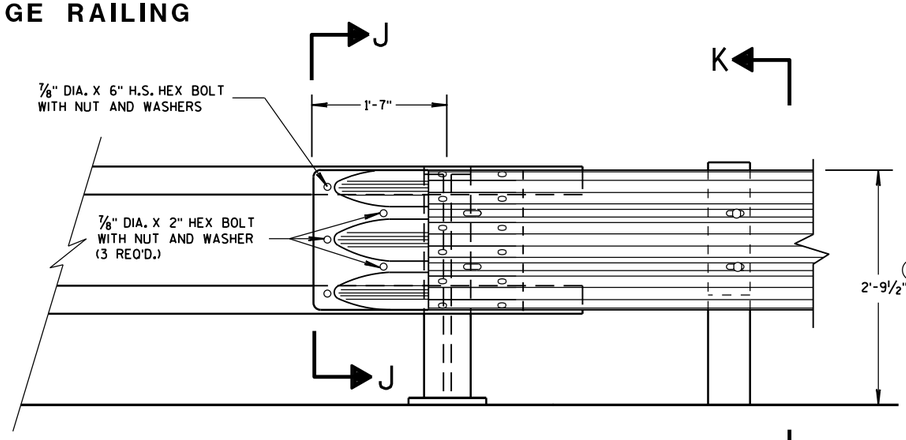
4 TOLERANCE FOR TOP OF BEAM IS ± 1".

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

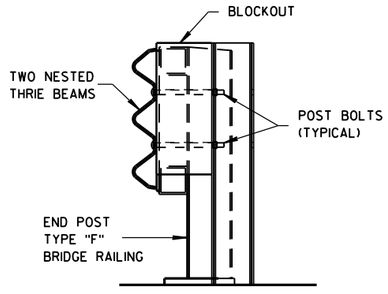


FRONT VIEW

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)

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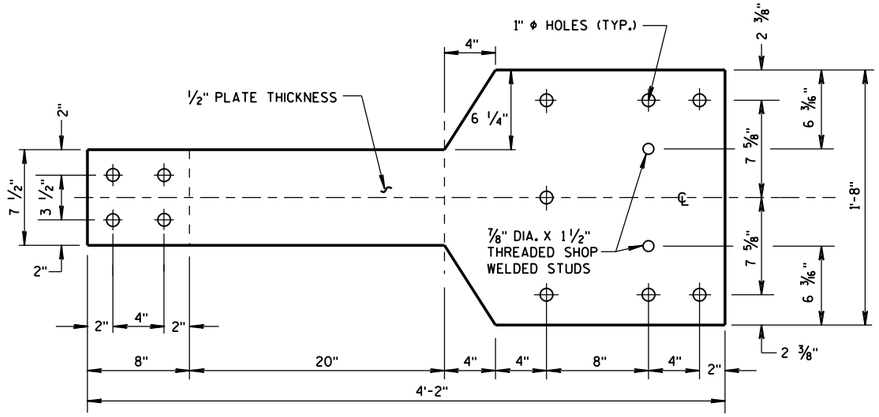
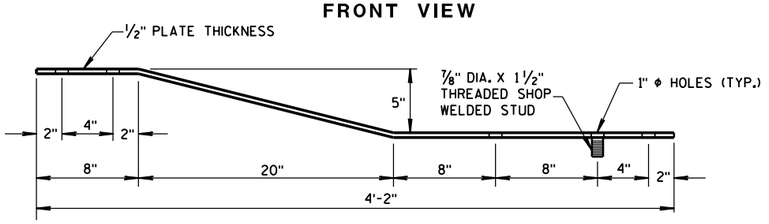
GENERAL NOTES

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

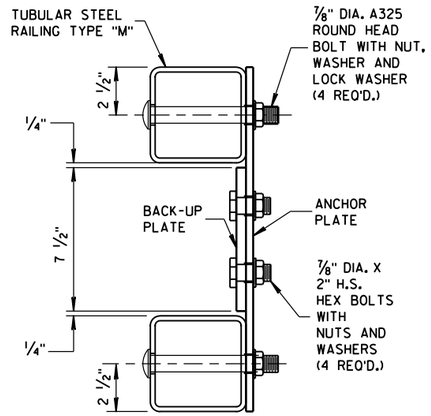


FRONT VIEW

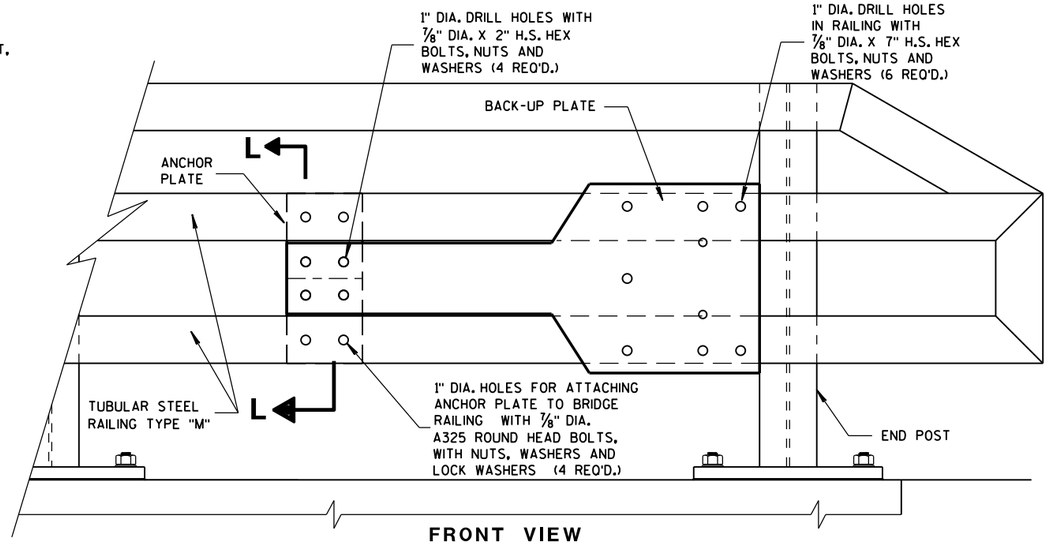


PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

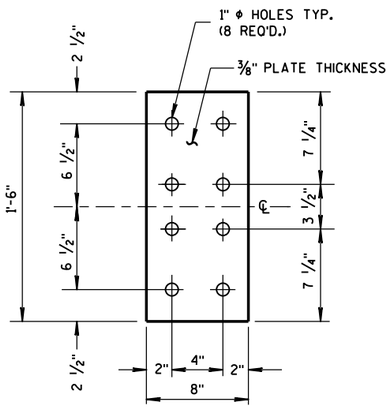


SECTION L-L



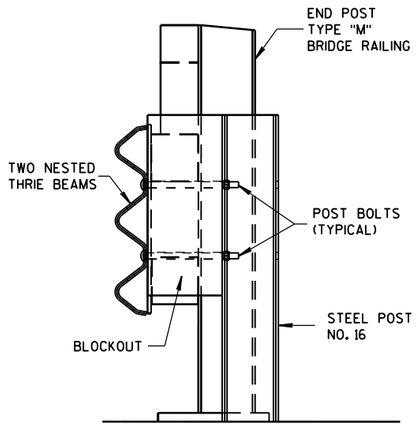
FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"

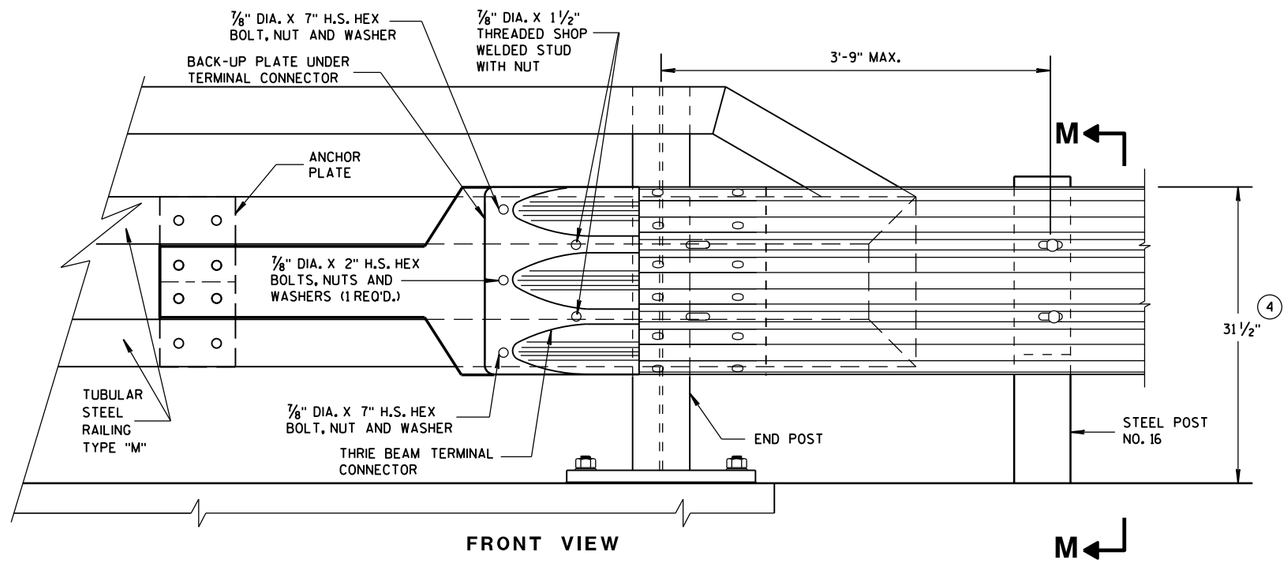


FRONT VIEW

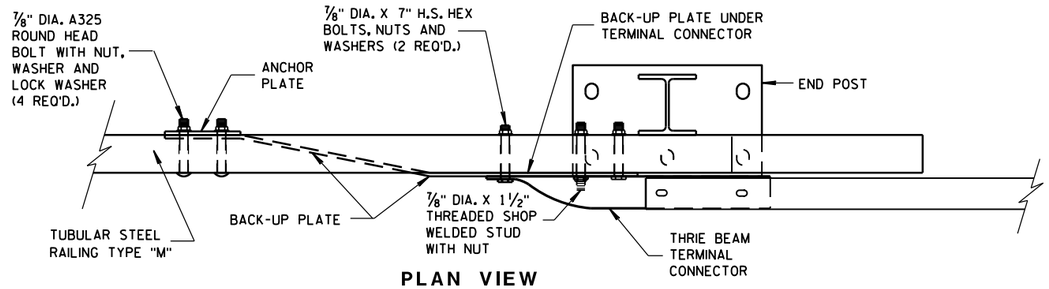
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June, 2015 — DATE
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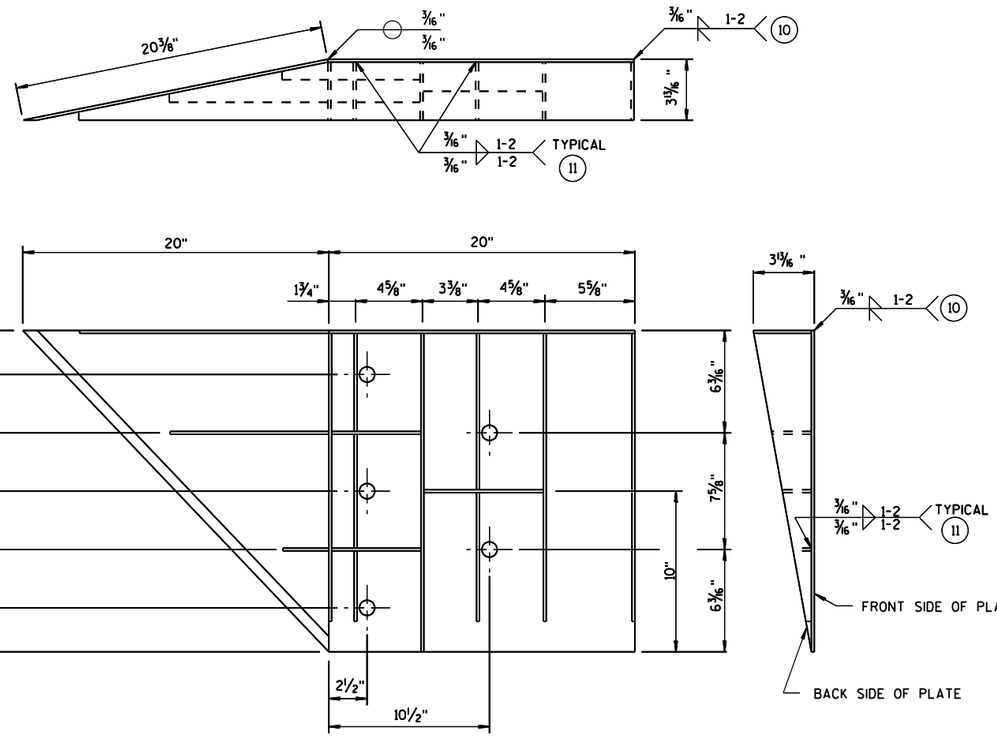

WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

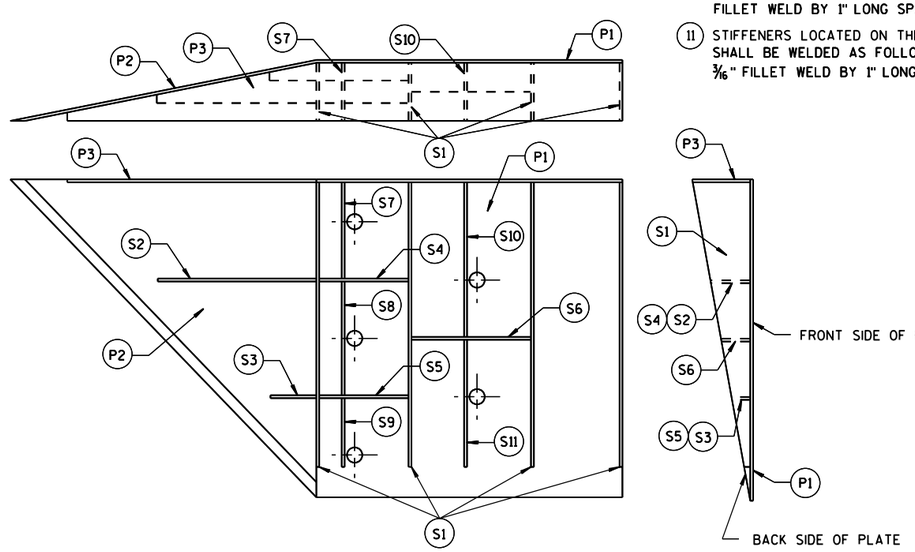

PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 3/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 1/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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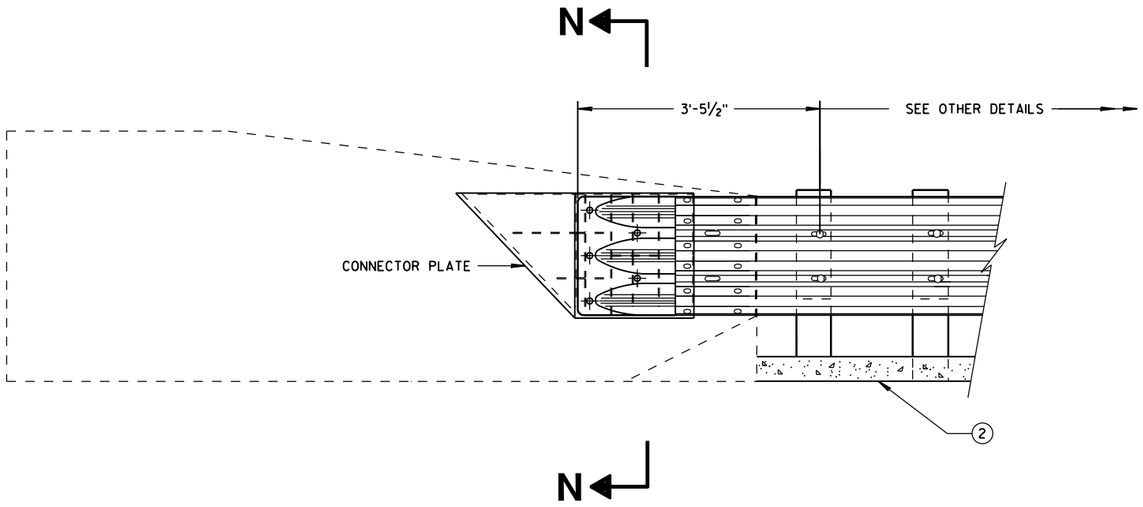
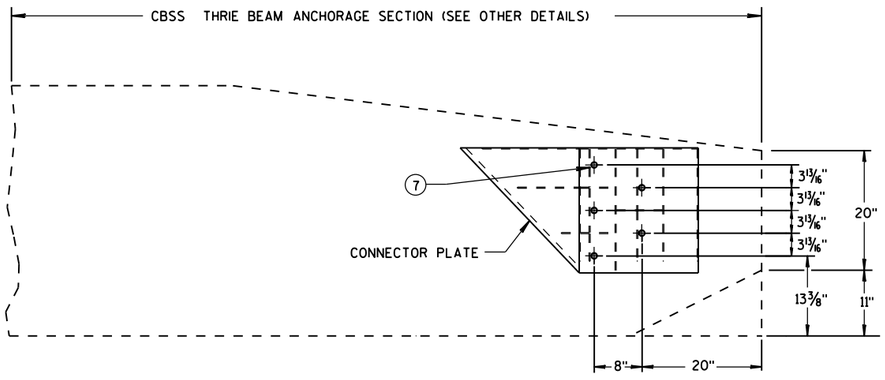


THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



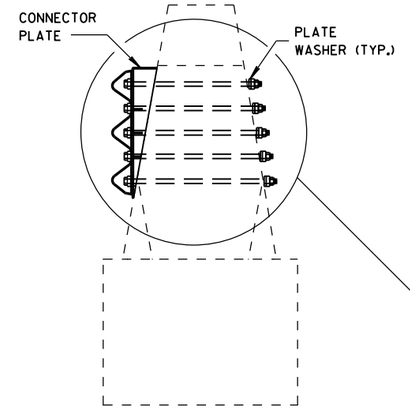
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

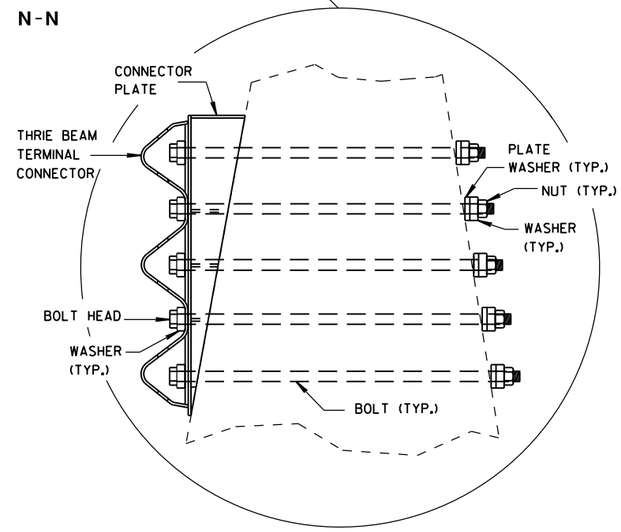
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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June, 2015 — DATE
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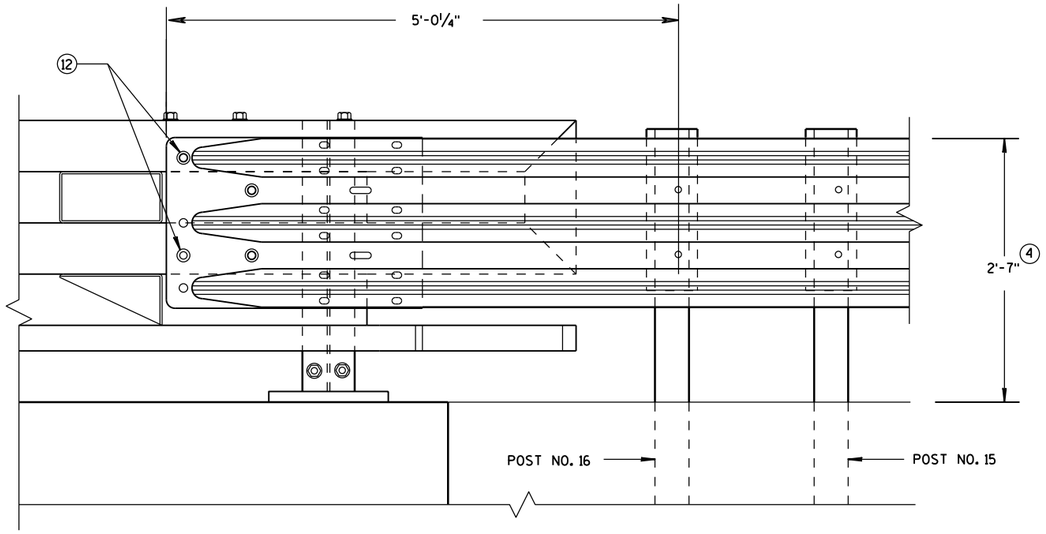
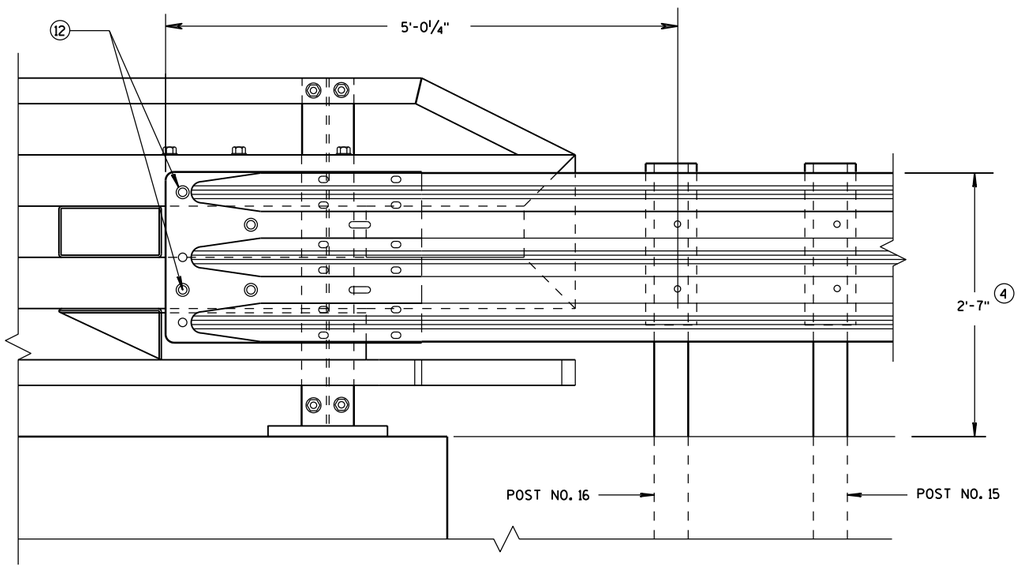


ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

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

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND ½-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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June, 2015
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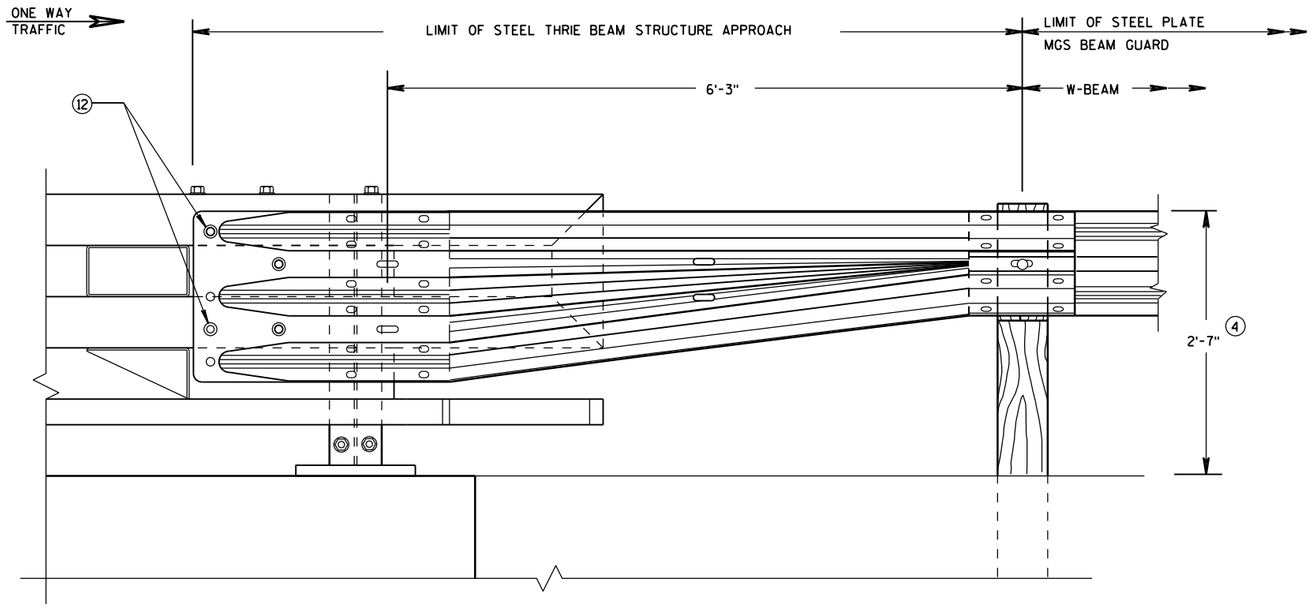


FRONT VIEW

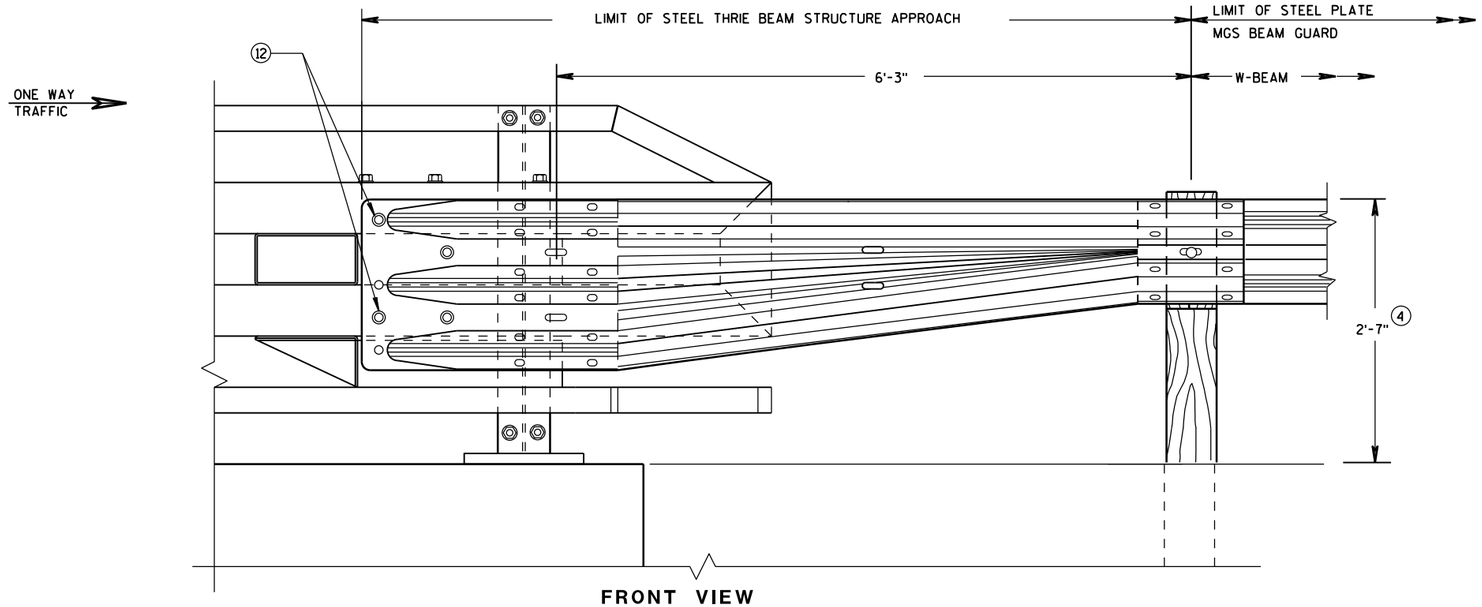
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

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

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND ½-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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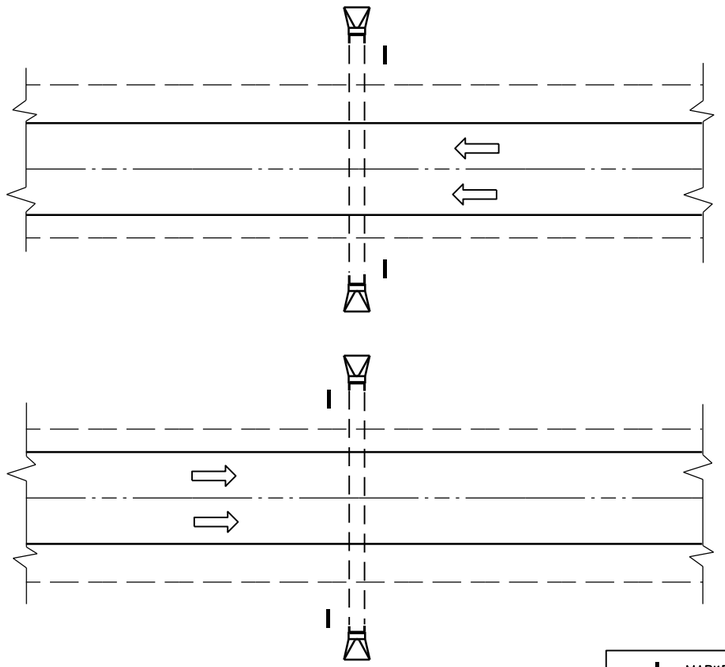
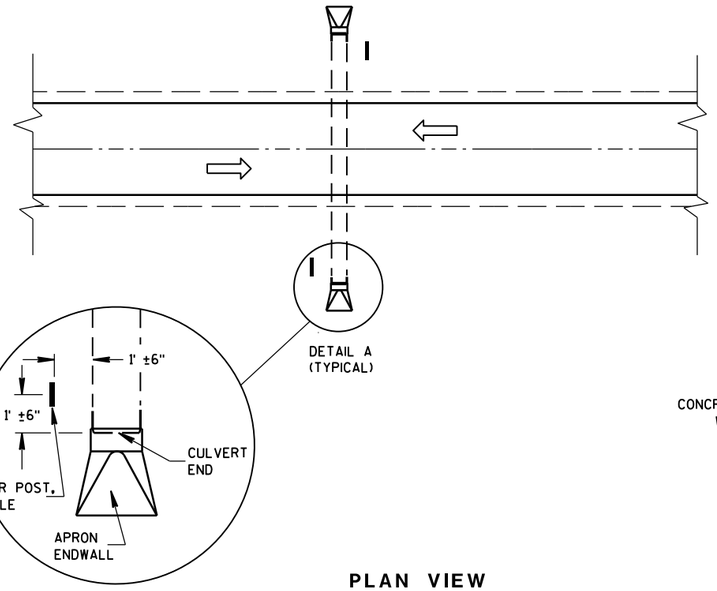


PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

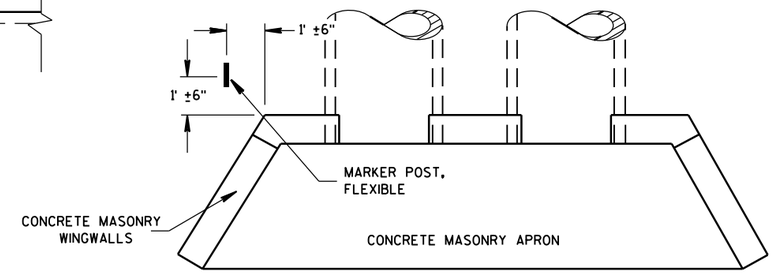
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

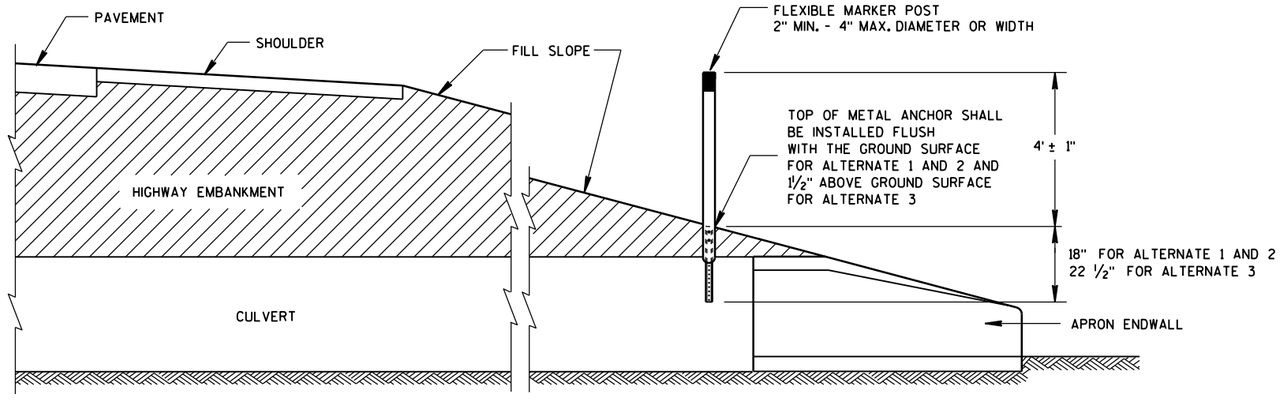
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

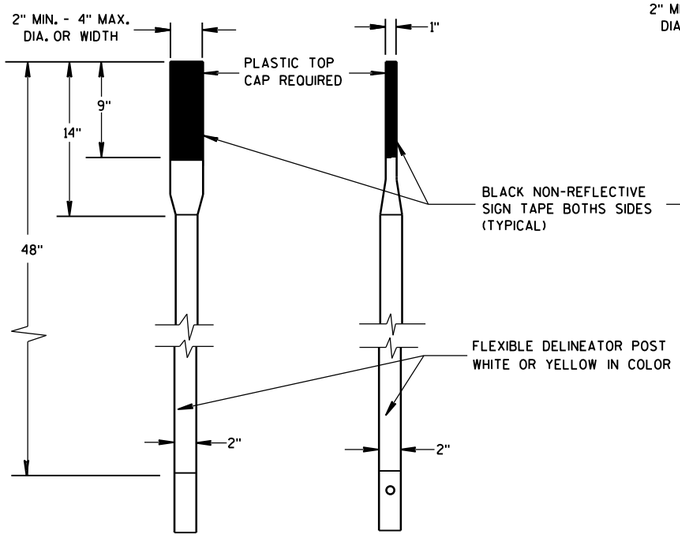
FLEXIBLE MARKER POST

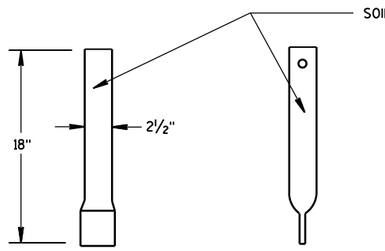
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

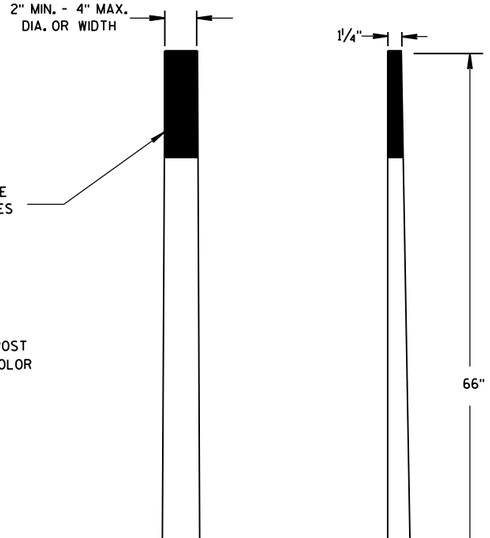
S.D.D. 15 A 3-2a





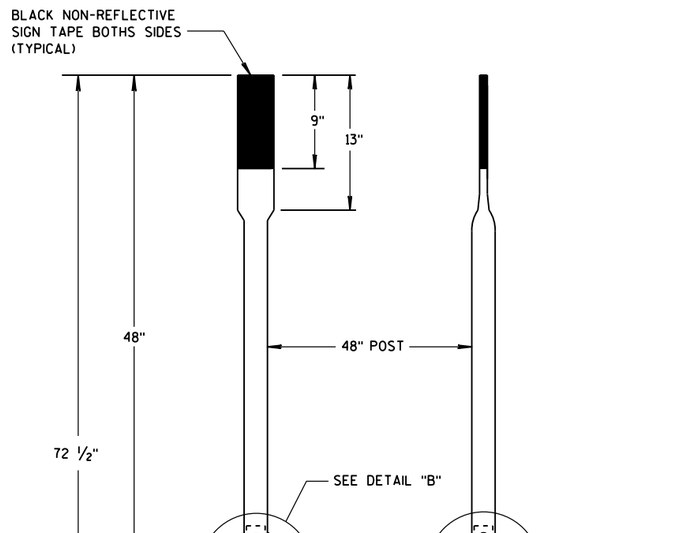
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

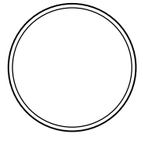
ALTERNATE 2



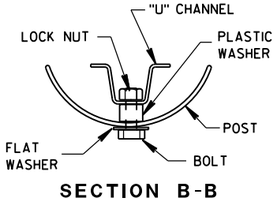
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS



SECTION A-A



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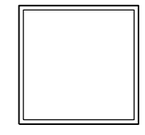

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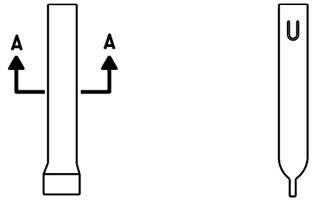
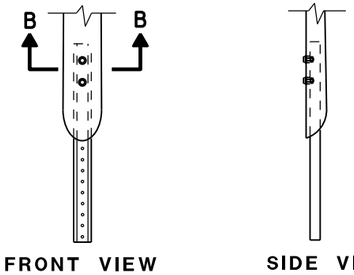


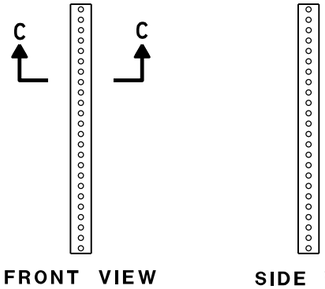
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

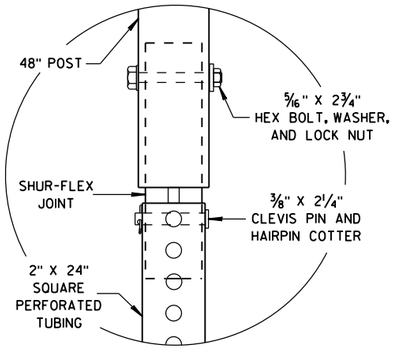
ALTERNATE 2



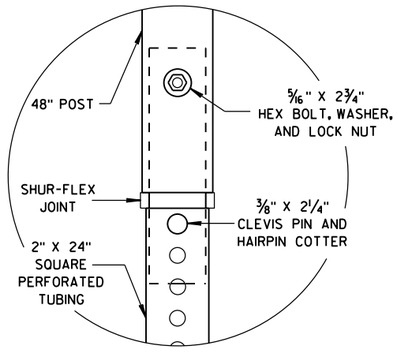
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

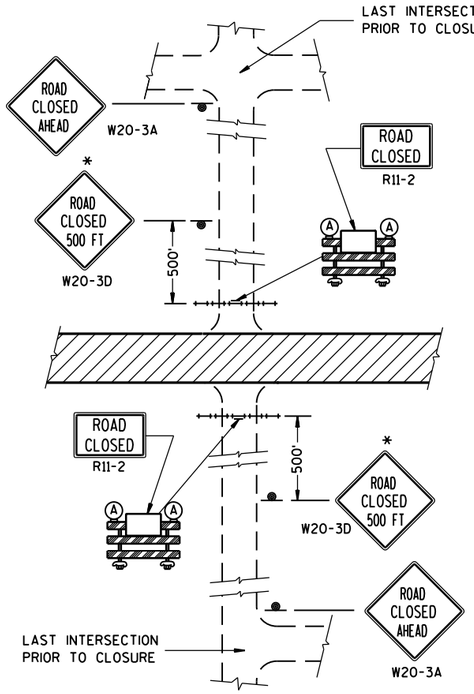
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

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

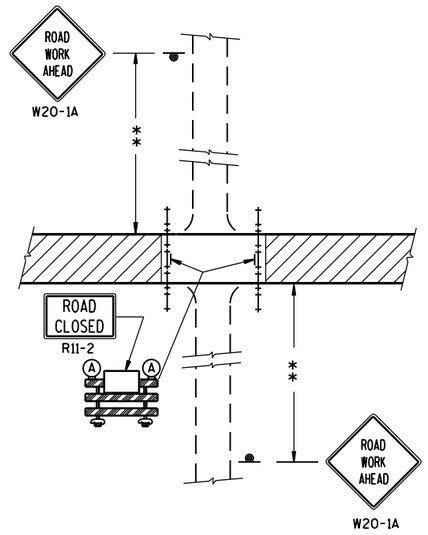
6

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



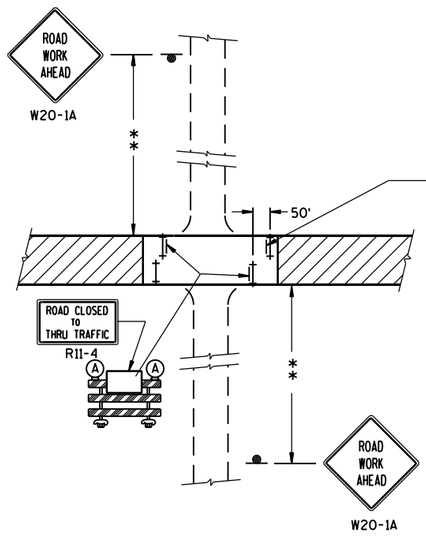
DETAIL 1

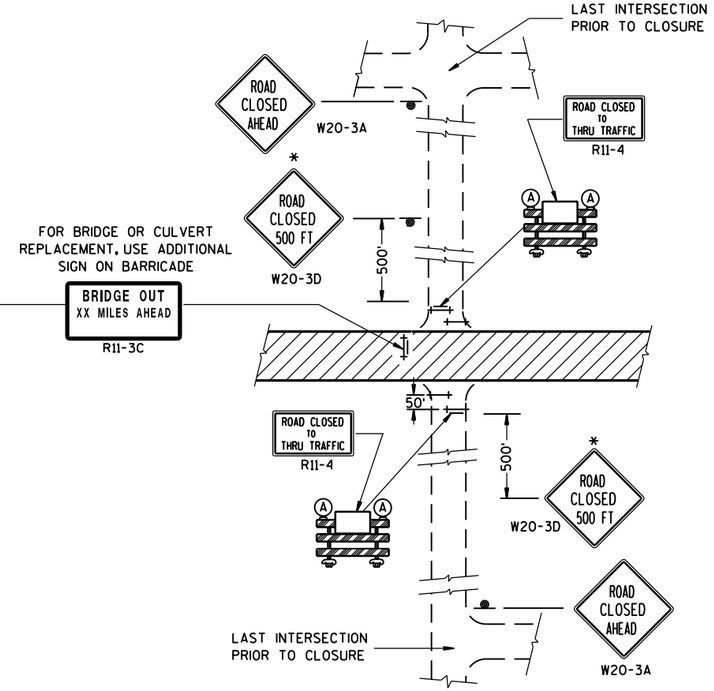
(NO ACCESS TO PROJECT)



DETAIL 2

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





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT 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 TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

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

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

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

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

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

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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

6

S.D.D. 15 C 3-3

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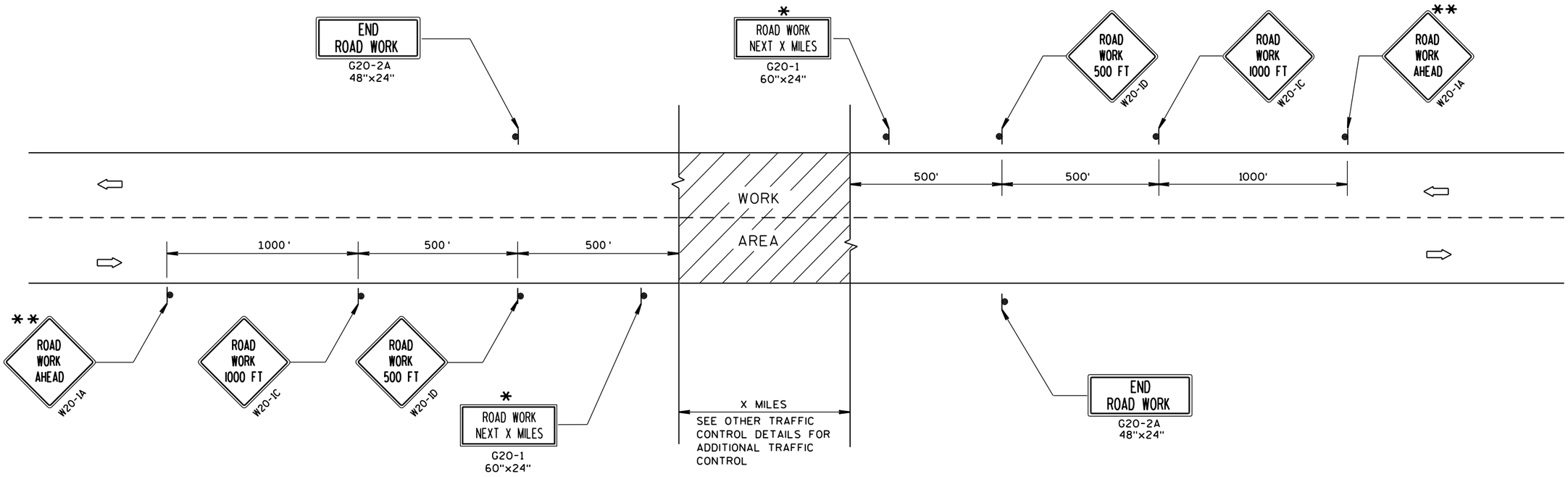
S.D.D. 15 C 3-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

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

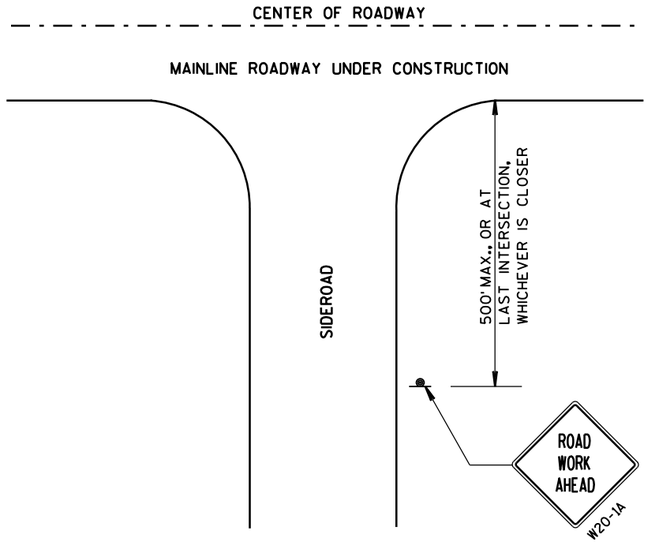
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

FHWA

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S.D.D. 15 C 4-3

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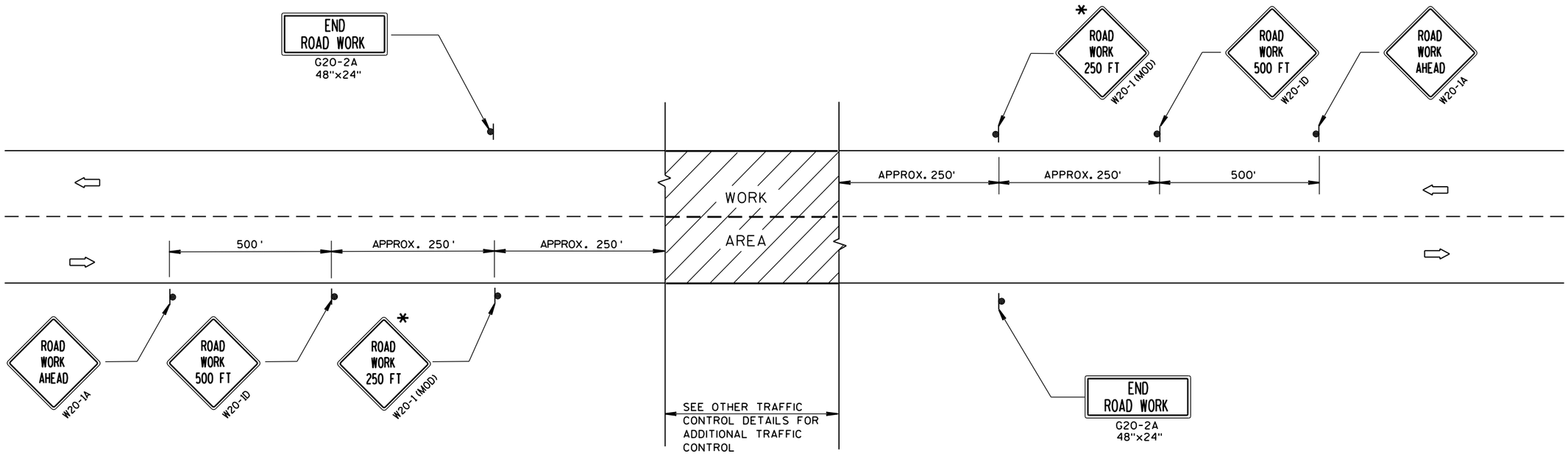
S.D.D. 15 C 4-3

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

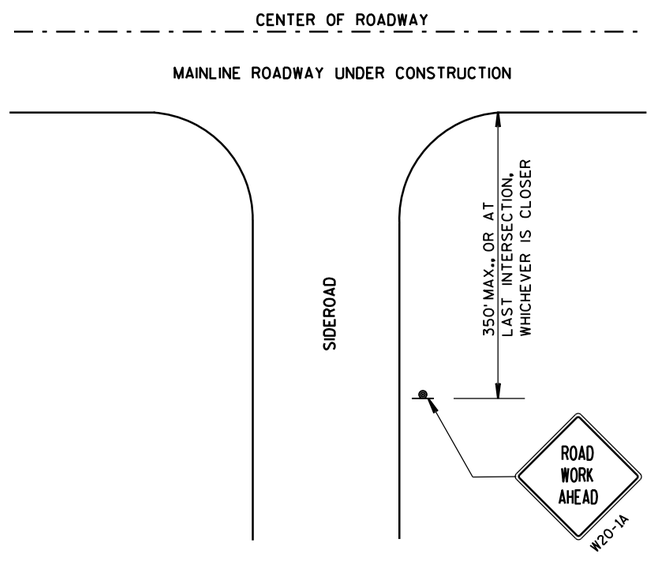
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

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

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



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZOI SAFETY ENGIN — IC
FHWA

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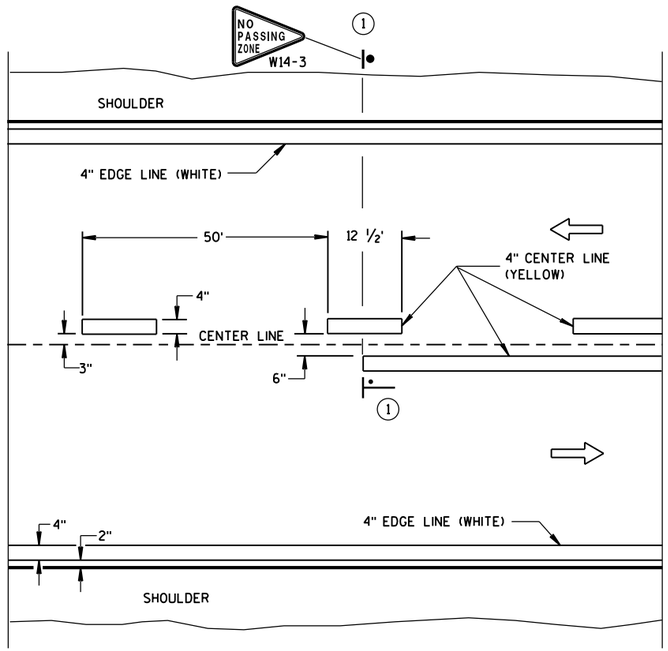
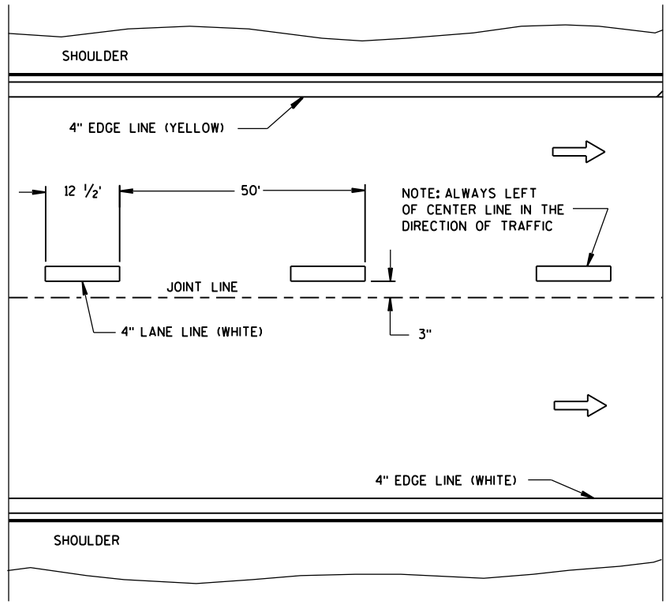
S.D.D. 15 C 5-3



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

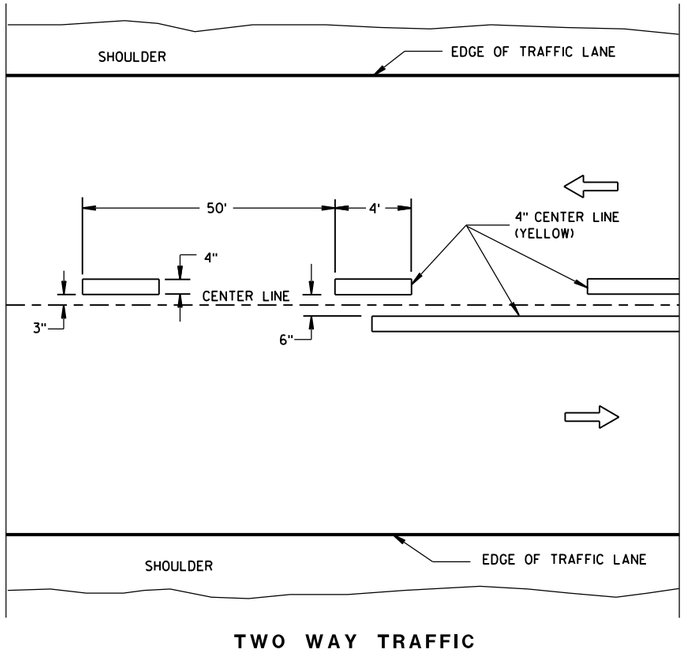
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

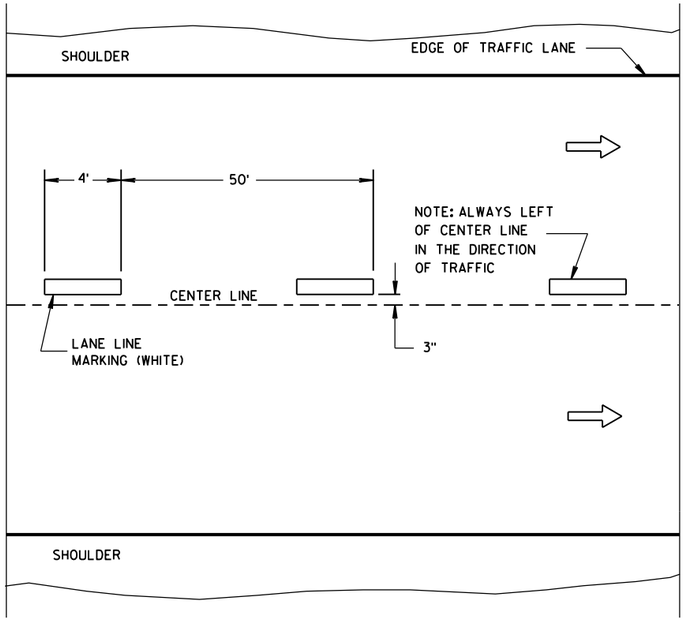
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2016	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MAR[illegible] 128 [illegible]INEER
FHWA	

6

S.D.D. 15 C 8-17a

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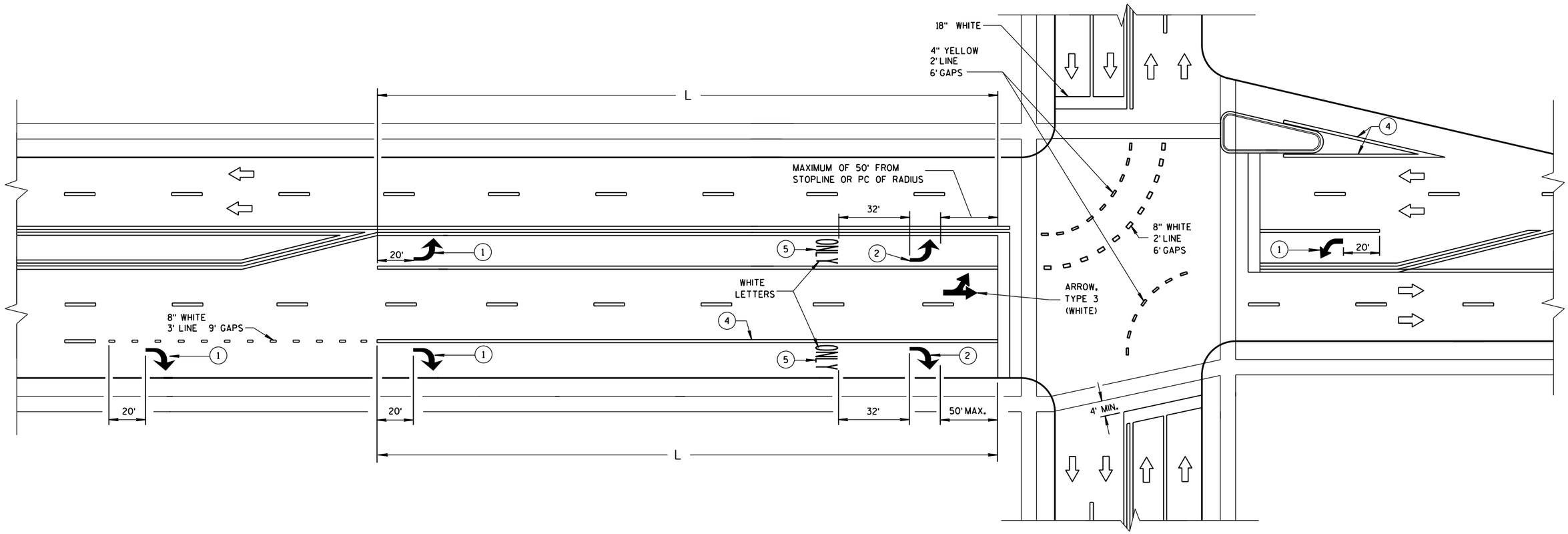
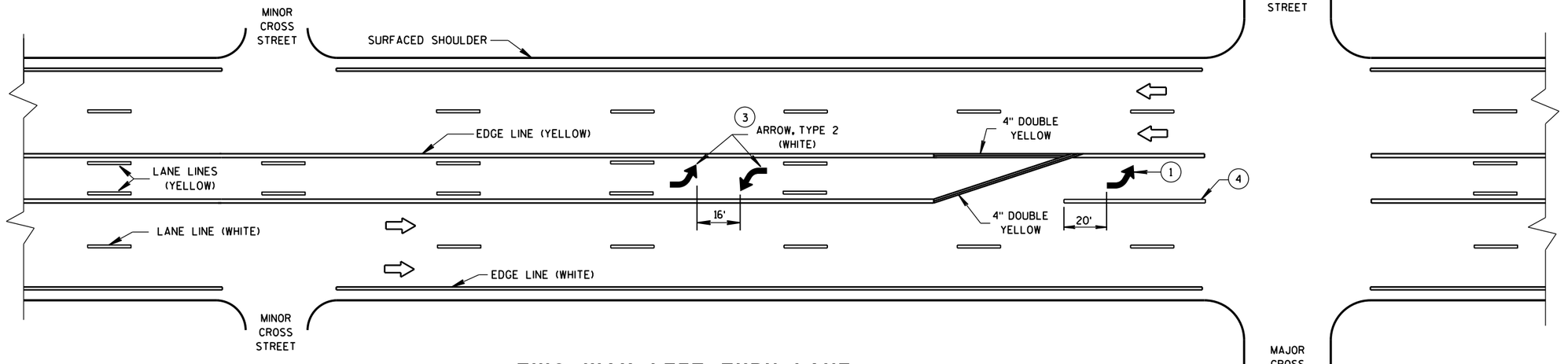
S.D.D. 15 C 8-17a





GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 8-17b

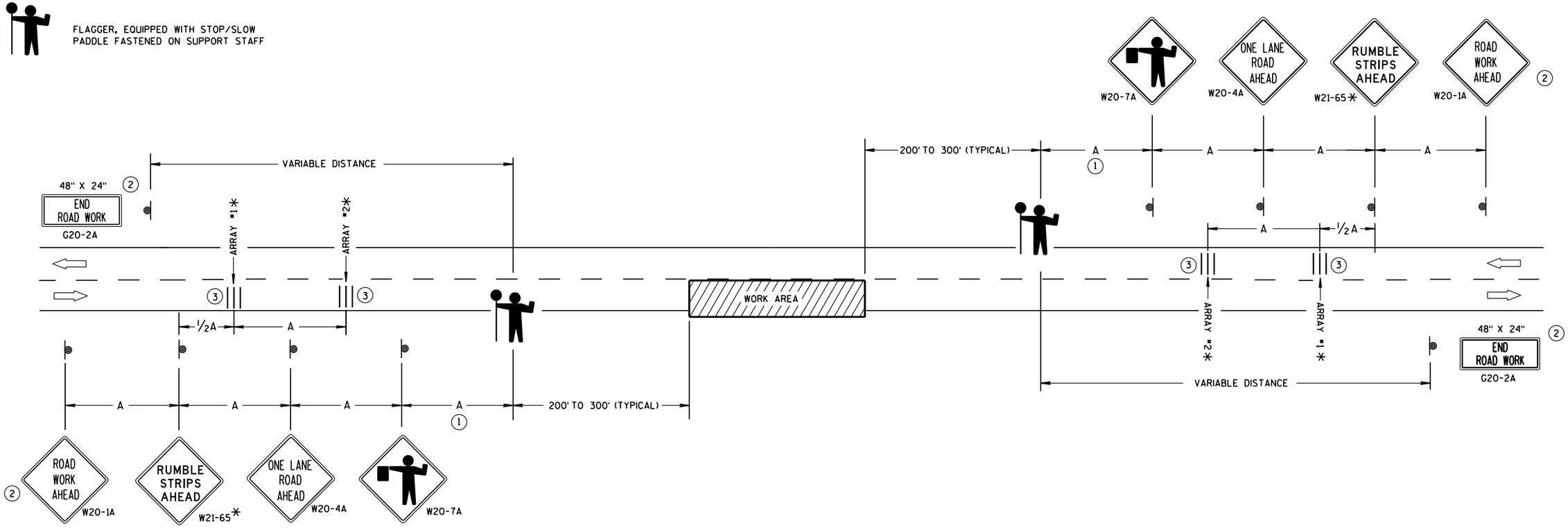
LEGEND

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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

USE OF THE "BE PREPARED TO STOP" 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

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.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE 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.

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

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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

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 RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT 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.

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

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

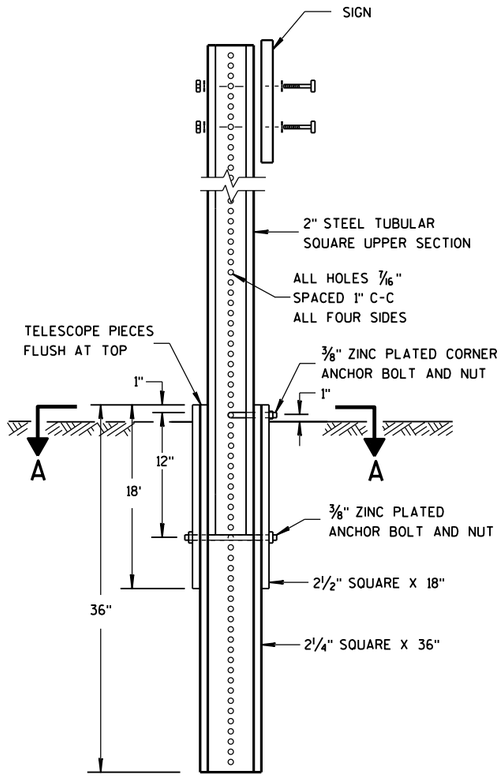
APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

6

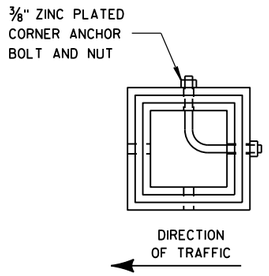
S.D.D. 15 C 12-5

6

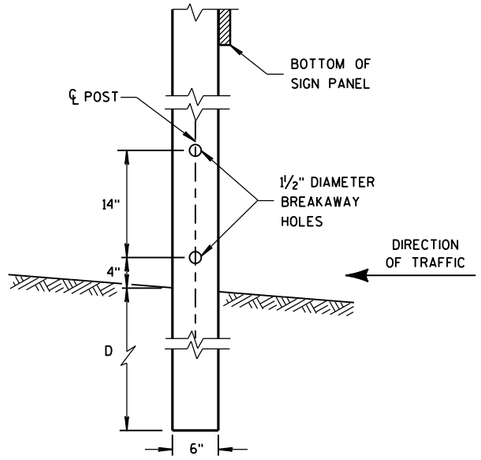
S.D.D. 15 C 12-5



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



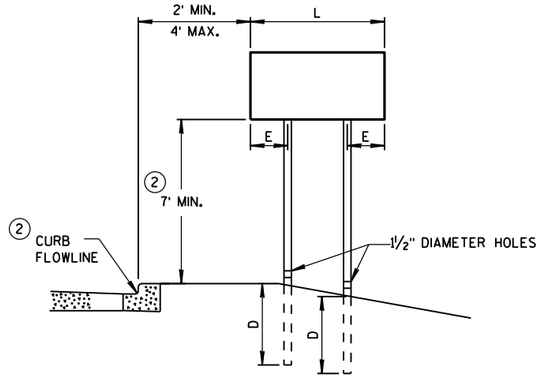
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

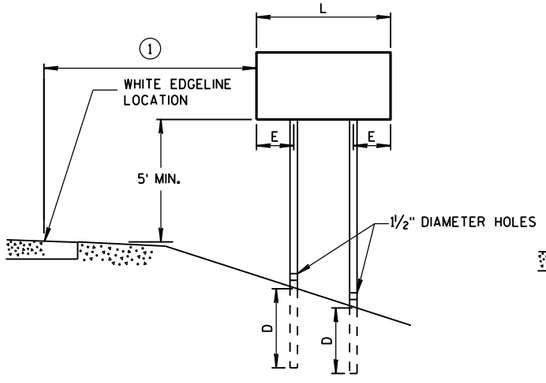
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

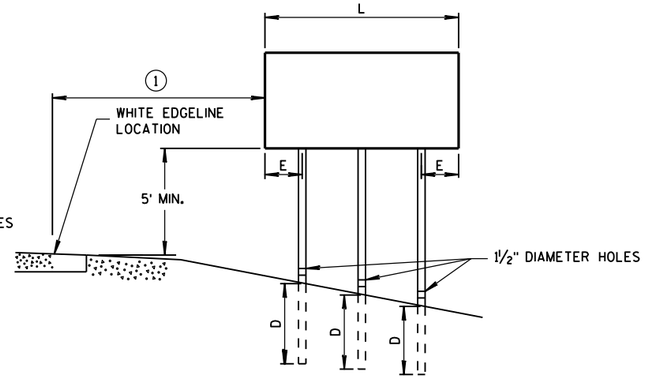
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK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

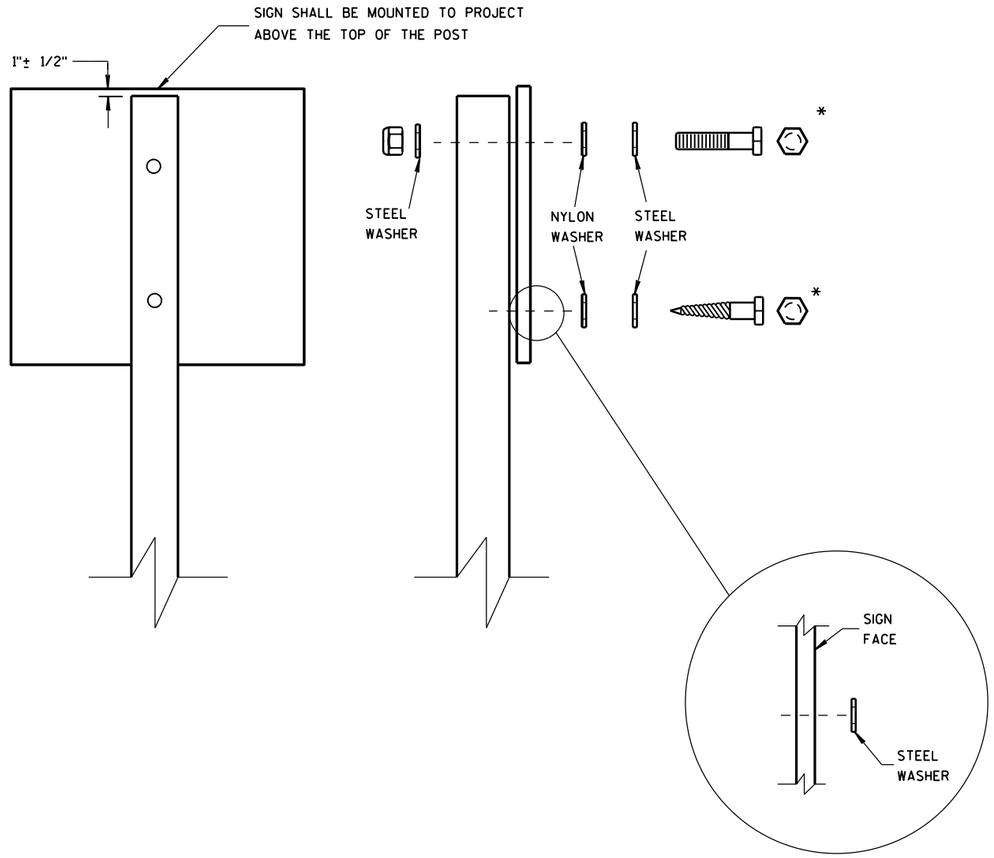
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-1a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

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

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

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

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

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Feb. 2015 — DATE

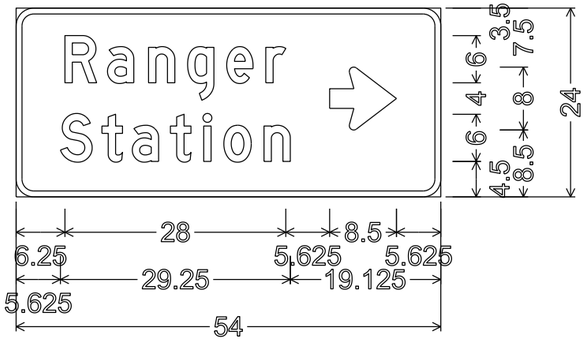
/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

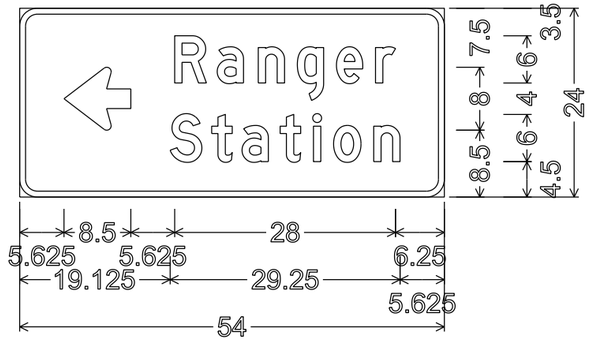
SIGN

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E exceot as Shown



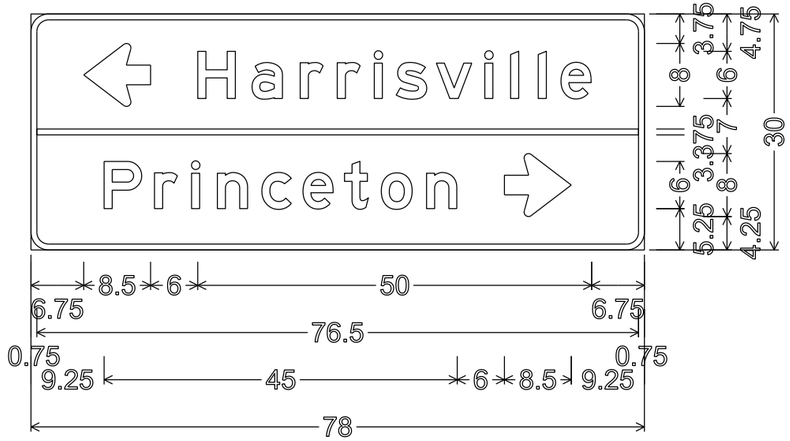
D1-2;
2.250" Radius, 0.750" Border, White on Brown
"Ranger" D; "Station" D



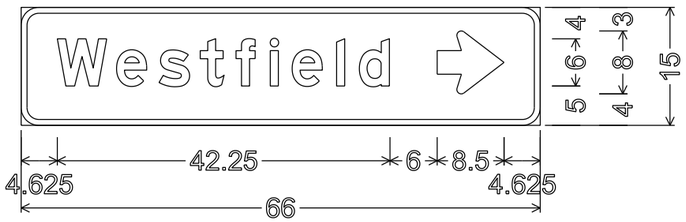
D1-2;
2.250" Radius, 0.750" Border, White on Brown
"Ranger" D; "Station" D

D1-1;
2.250" Radius, 0.750" Border

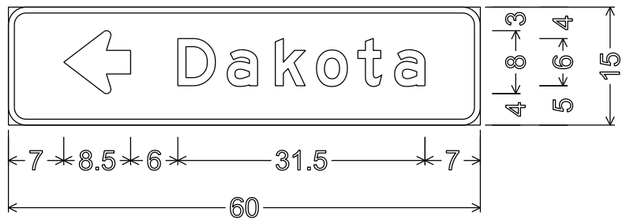
D1-1;
2.250" Radius, 0.750" Border



D1-2;
2.250" Radius, 0.750" Border



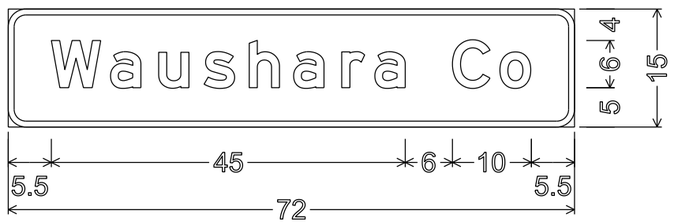
D1-1;
2.250" Radius, 0.750" Border



D1-1;
2.250" Radius, 0.750" Border

D1-2;
2.250" Radius, 0.750" Border

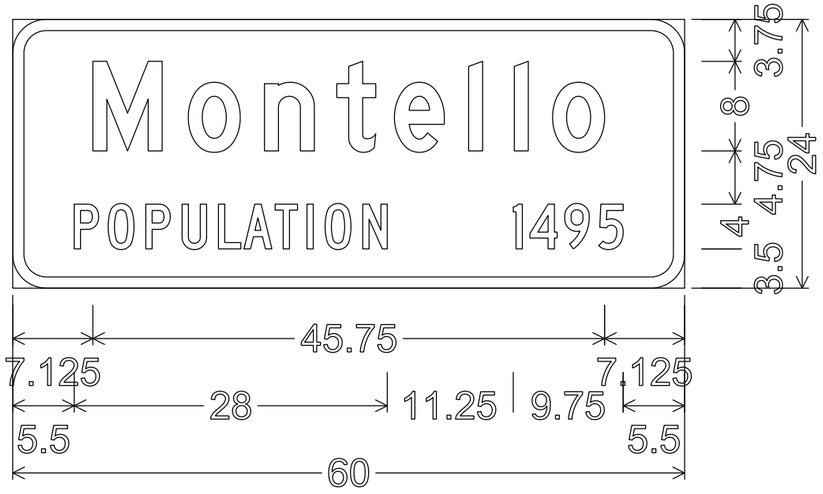
D1-1;
2.250" Radius, 0.750" Border



I2-2;
2.250" Radius, 0.750" Border

NOTES

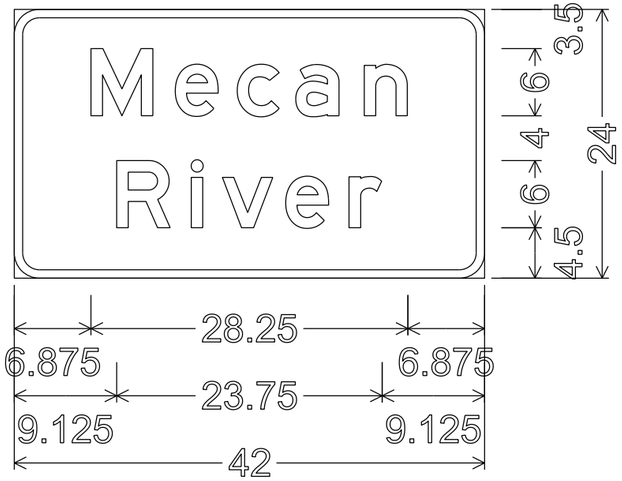
1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E exceot as Shown



I2-3;

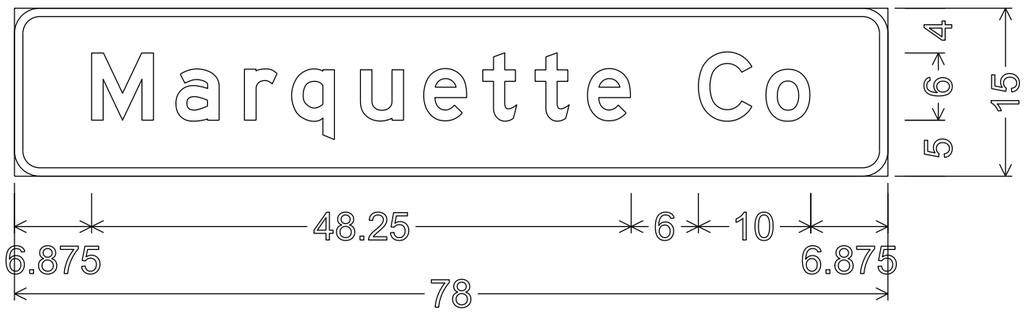
3.000" Radius, 1.000" Border,

"Montello" D; "POPULATION" C; "1495" C



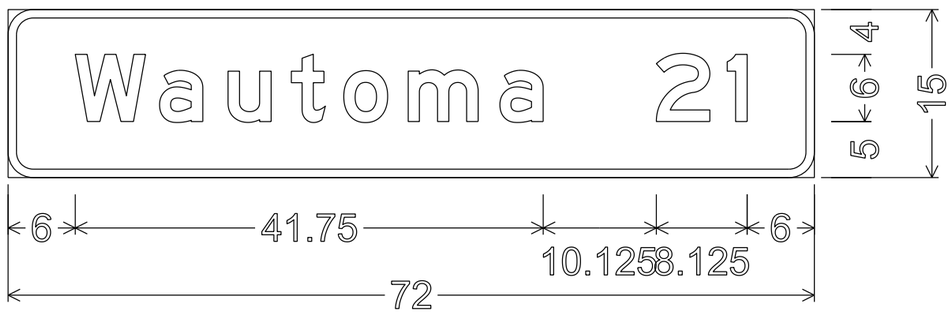
I2-2;

2.250" Radius, 0.750" Border



I2-2;

2.250" Radius, 0.750" Border



D2-1;

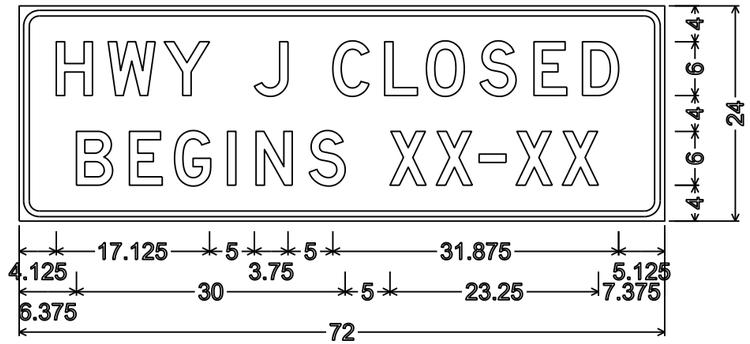
2.250" Radius, 0.750" Border

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	PERMANENT SIGNING	SHEET NO:	E

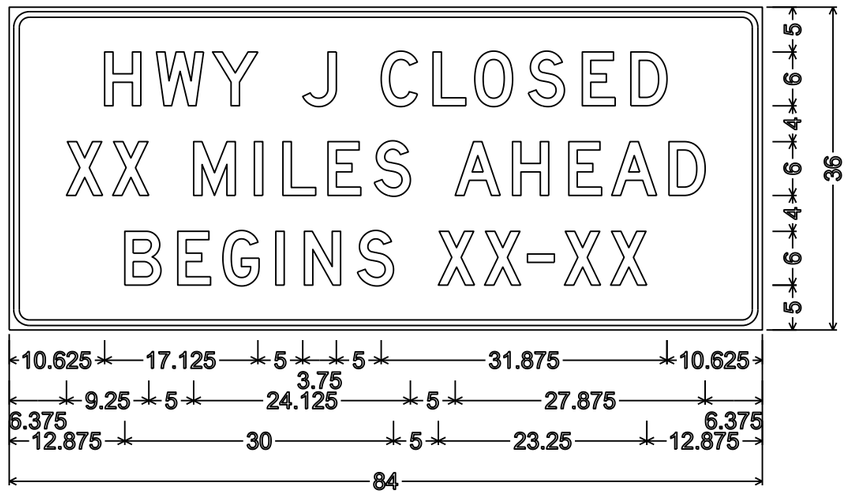
FILE NAME : C:\CAEfiles\Projects\tr_d4\4391a815.DGN PLOT DATE : 20-AUG-2015 15:52 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 13.529658:1.000000 WISDOT/CADDS SHEET 42

NOTES

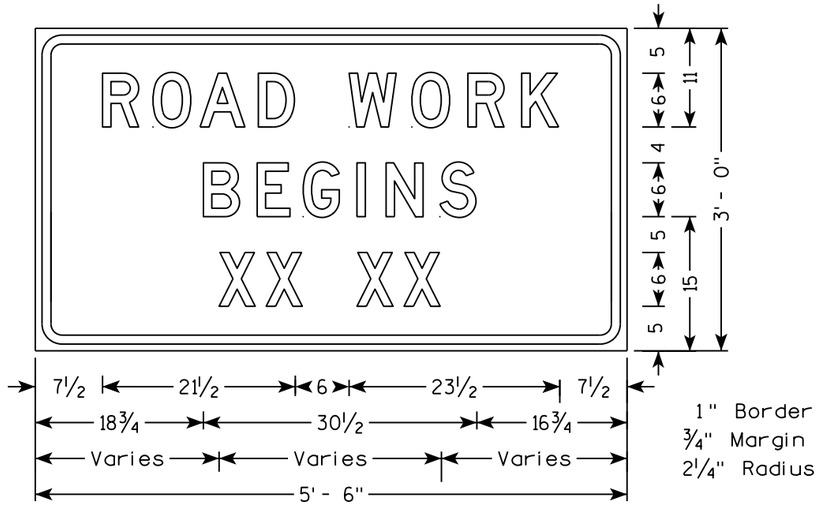
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent



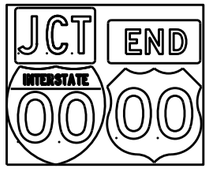
1" Border
¾" Margin
2¼" Radius

PROJECT NO:	HWY:	COUNTY:	TEMPORARY SIGNING	SHEET NO:	E

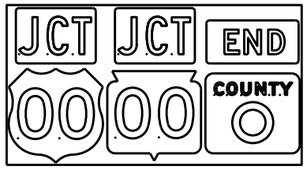
FILE NAME : C:\CAEfiles\Projects\tr_d4\HwyJClosed.dgn PLOT DATE : 14-JUL-2016 08:37 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 16.895273:1.000000

TYPICAL ASSEMBLIES

J1-1

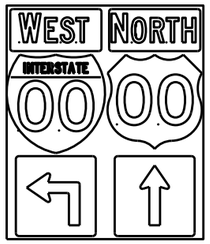


J1-2

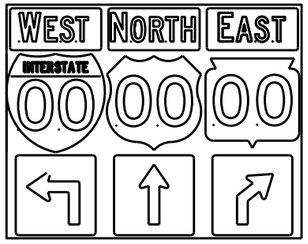


J1-3

J2-1



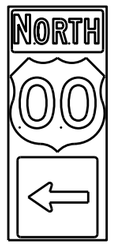
J2-2



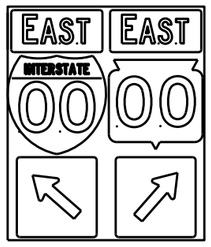
J2-3

JV

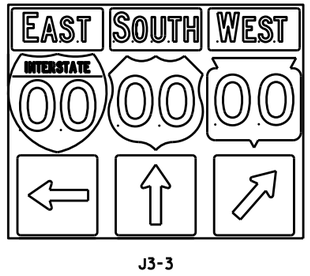
(Typical Vertical J-Assembly
See Note 10 and 11)



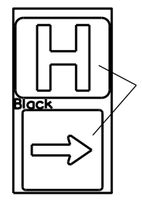
J3-1



J3-2

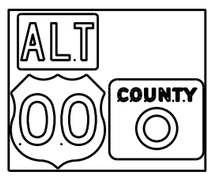


J3-3

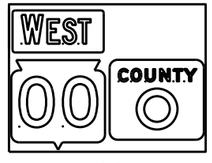


JH-1

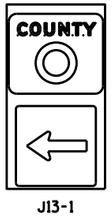
J4-1



J4-2



J4-2



J13-1

J12-1

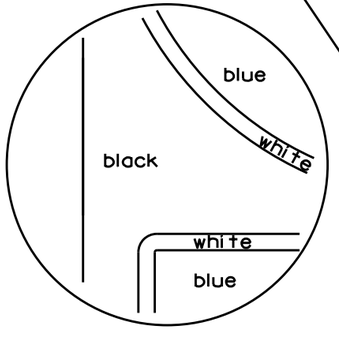
J32-1

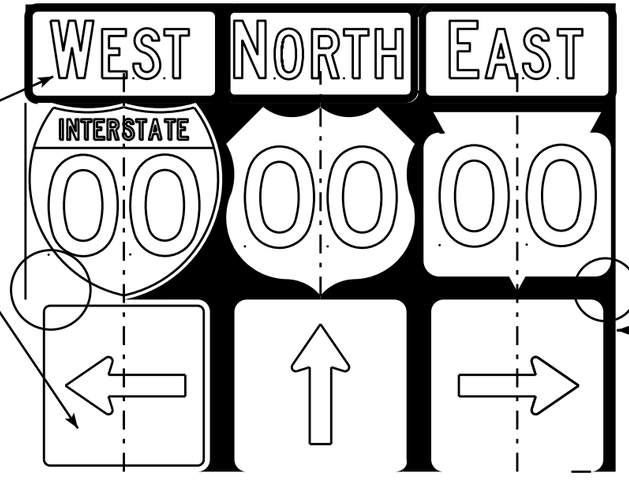
J33-1

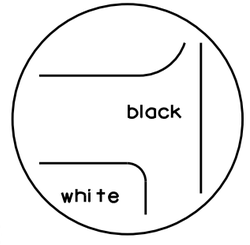
J23-1

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

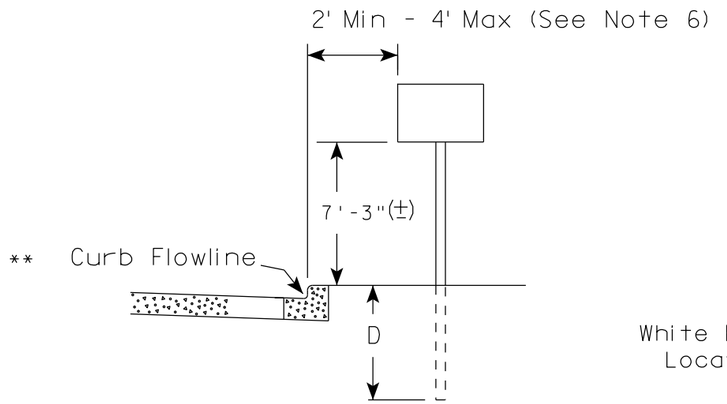
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

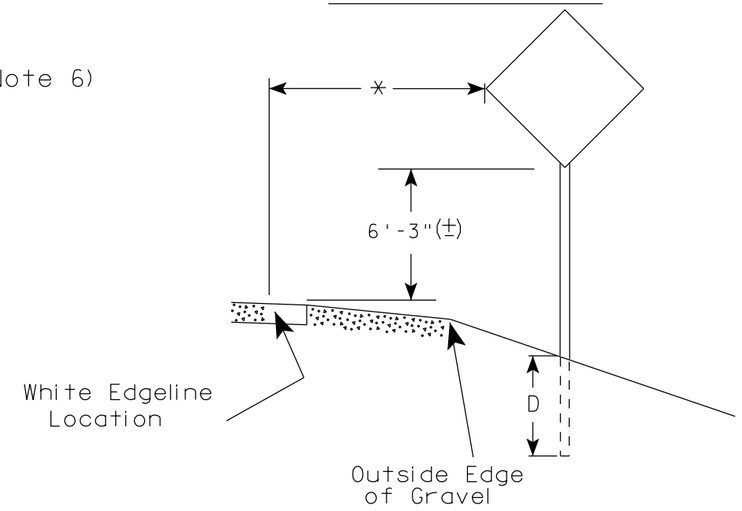
DATE 2/06/14 PL... A2-1S.8

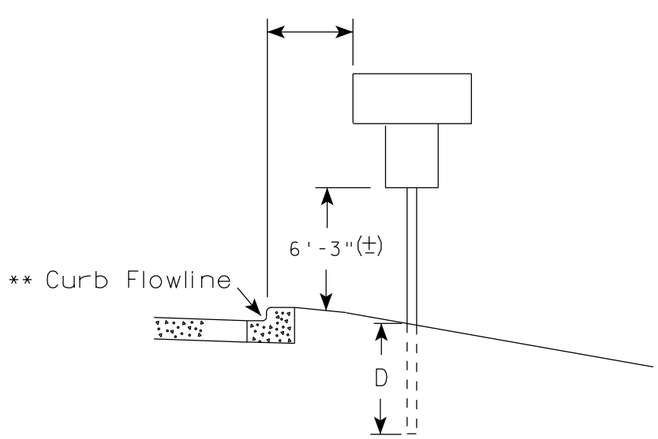
PROJECT NO: | SHEET NO: E

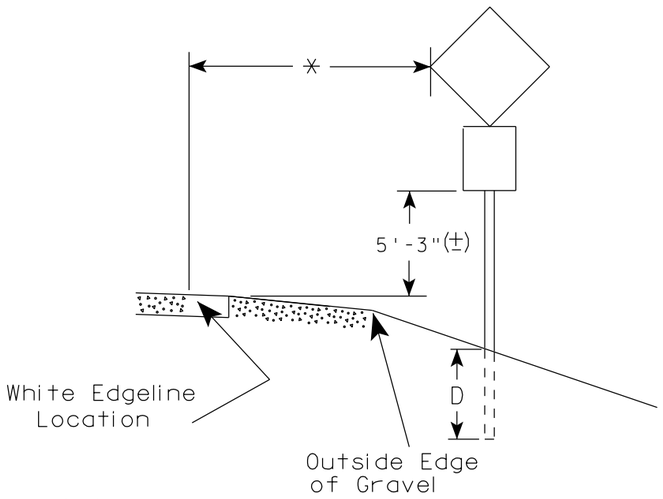
URBAN AREA



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 barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. 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), 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" (±).

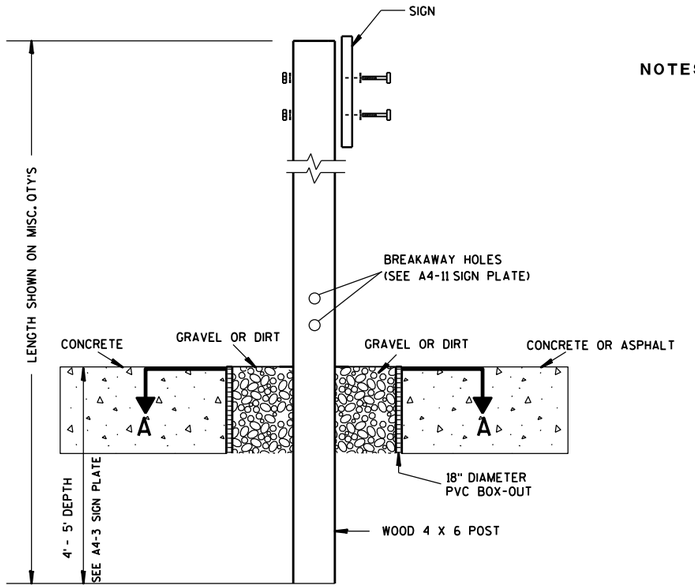
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

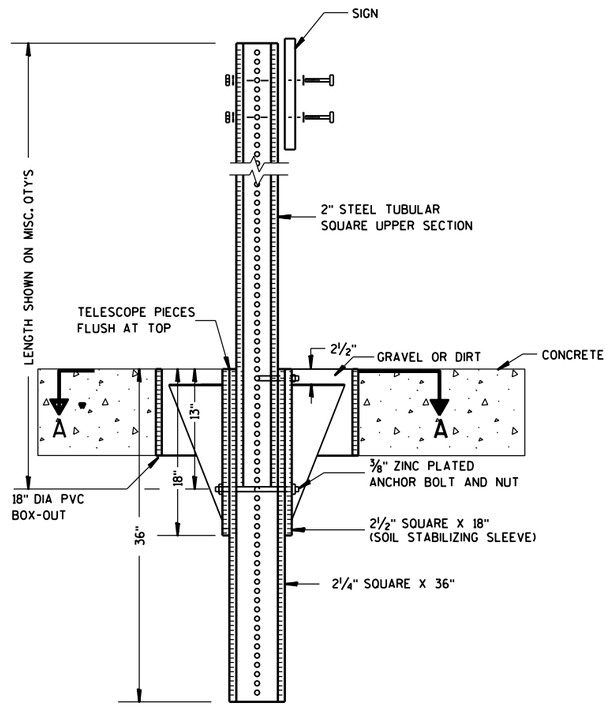
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

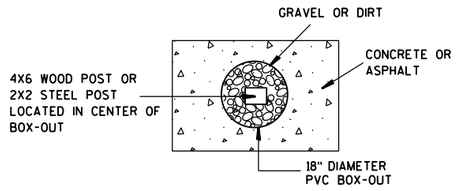
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

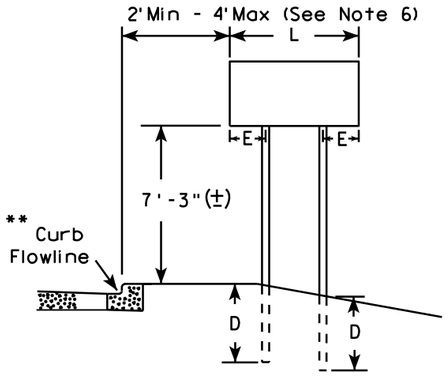
APPROVED Matthew R Rauch
for State Traffic Engineer

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

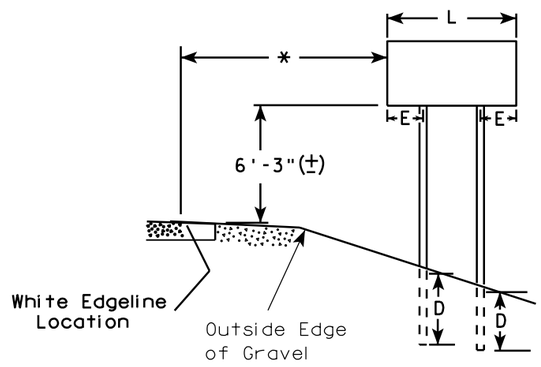
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

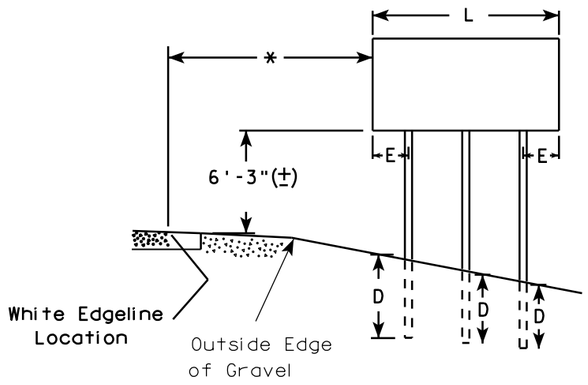
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

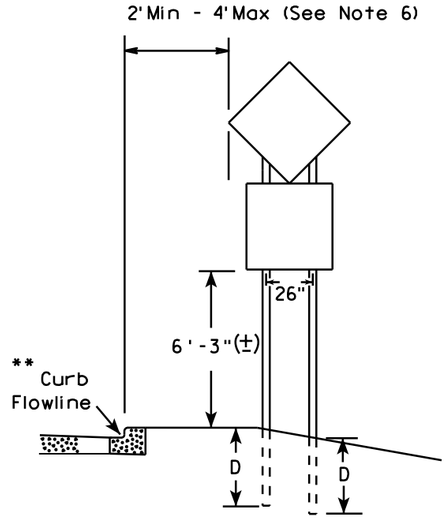
URBAN AREA



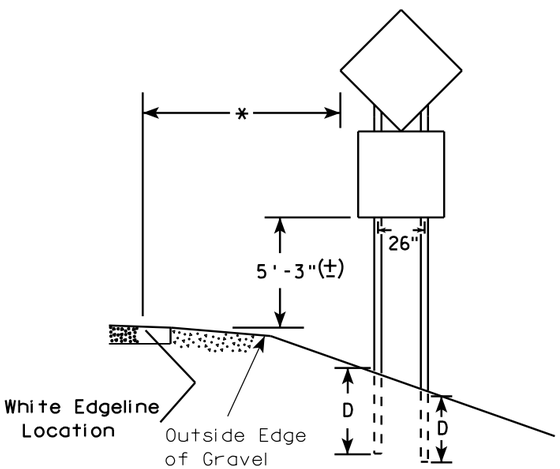
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

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

***

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

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

POST EMBEDMENT DEPTH

Area of Sign Installation (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

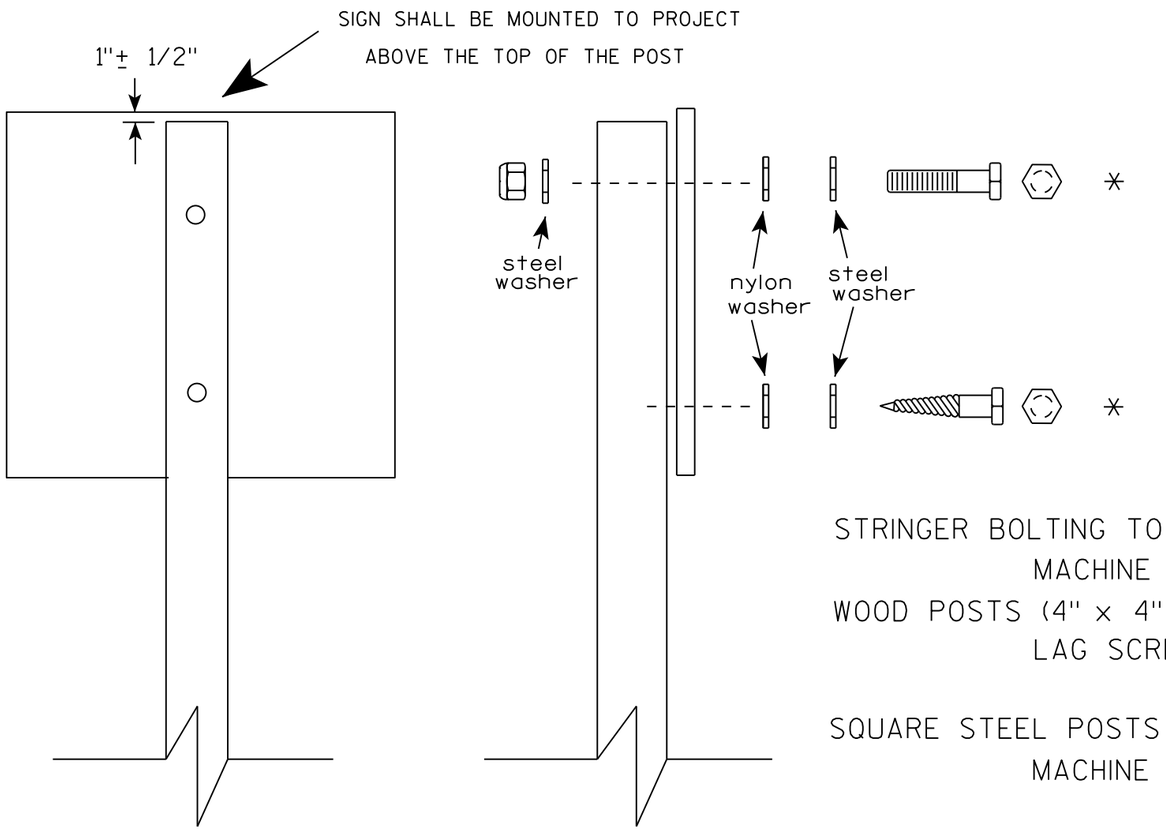
DATE 7/23/15 PLATE NO. A4-4 14

139

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42



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 4" or 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

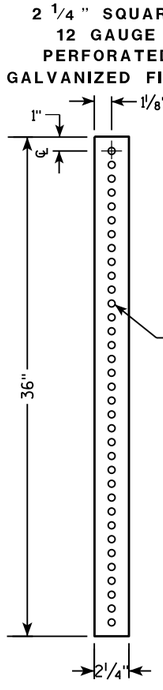
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

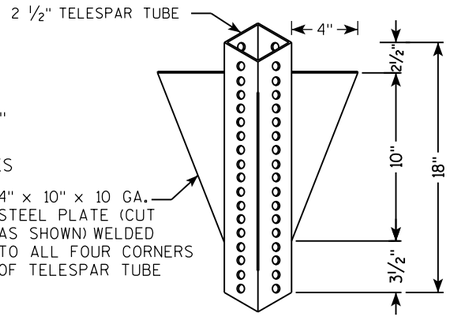
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

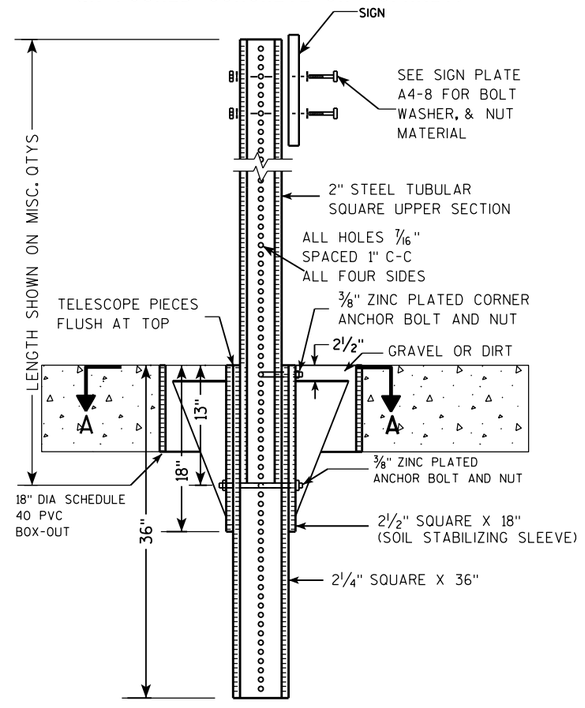
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



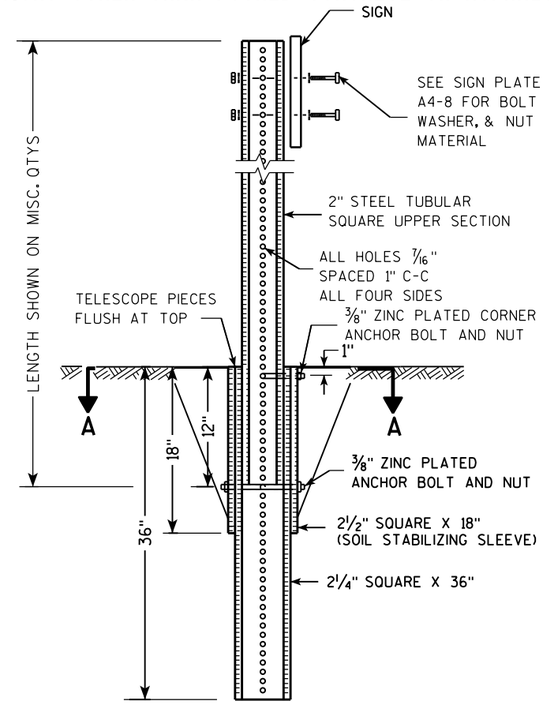
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

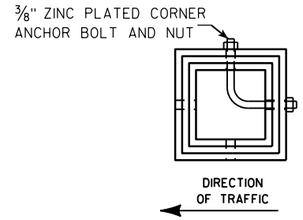


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

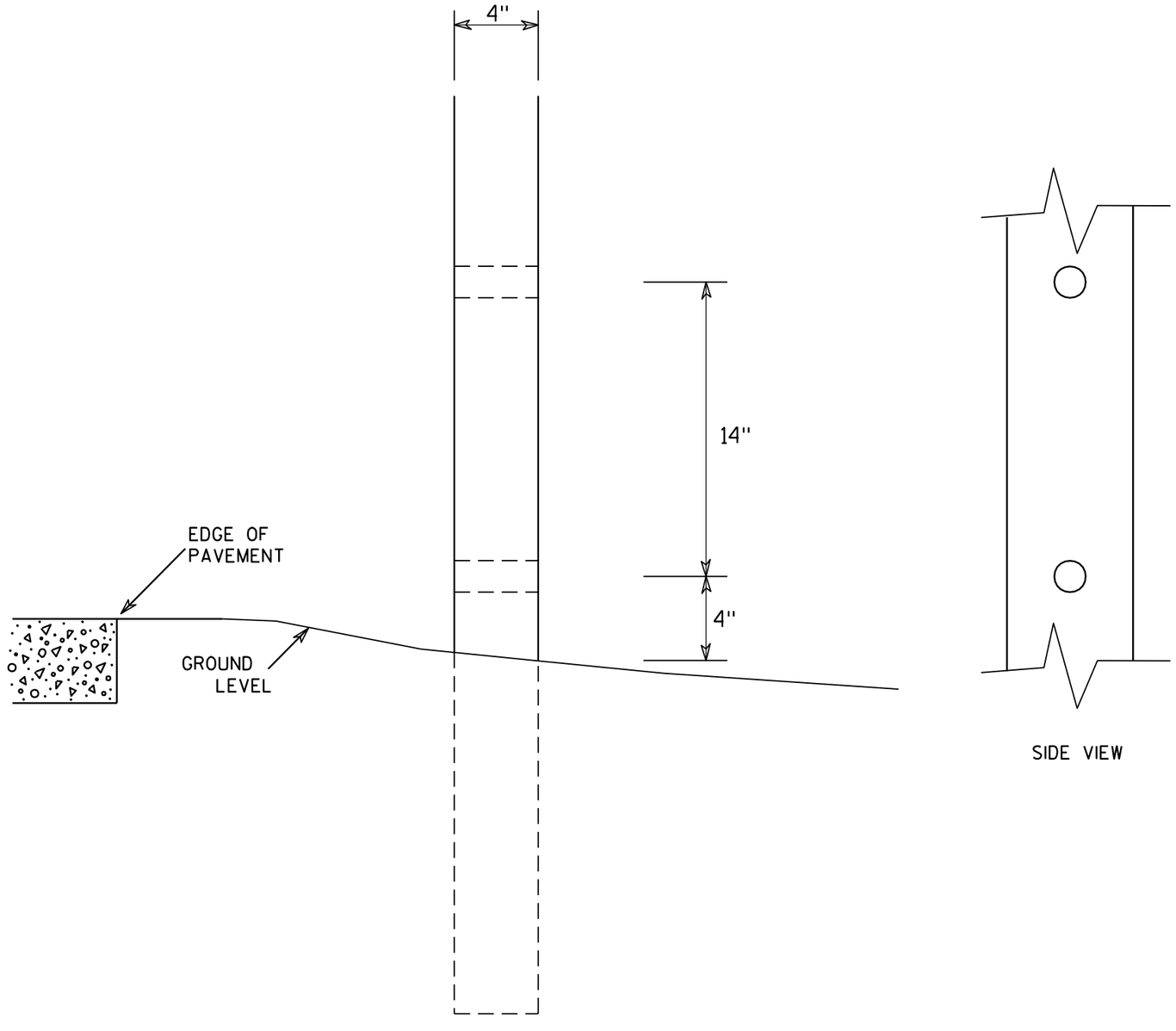
WISCONSIN DEPT OF TRANSPORTATION

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.

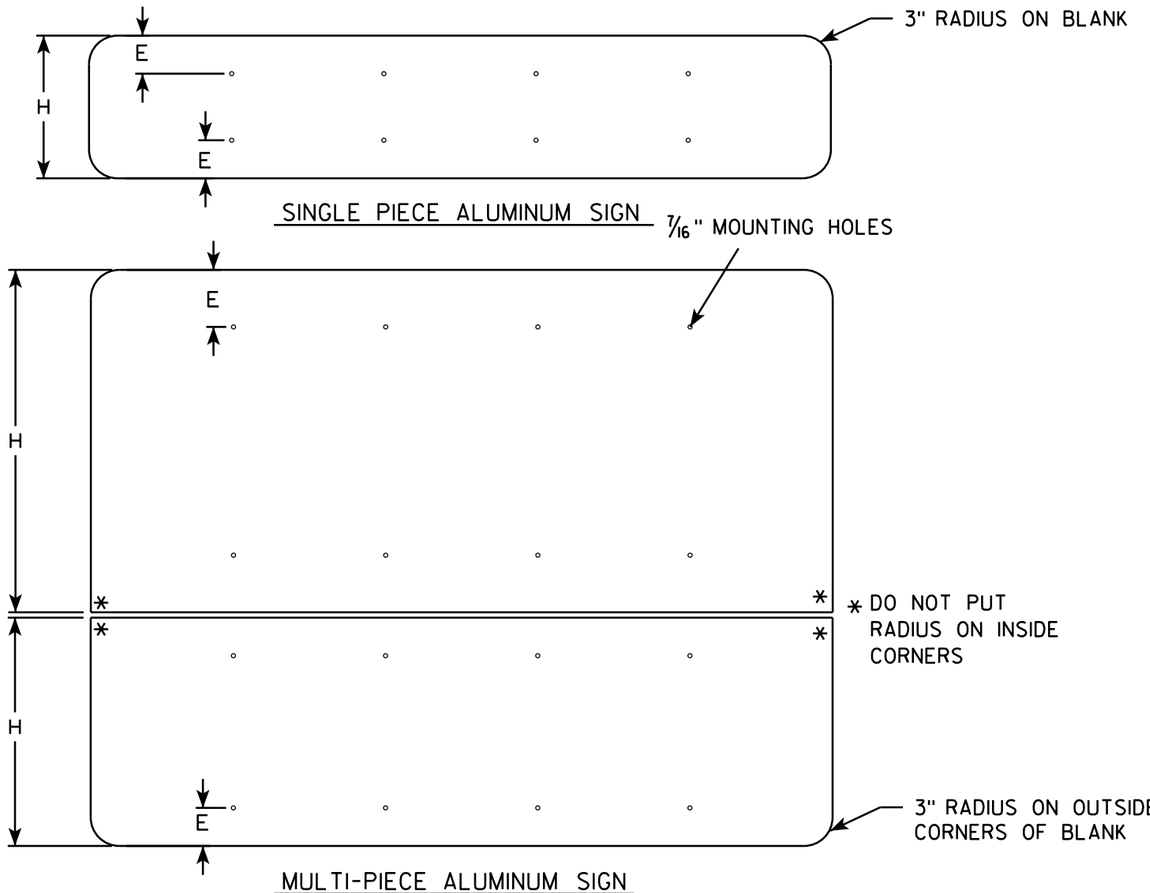
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

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

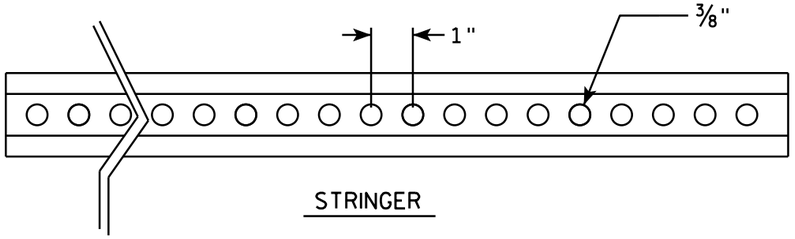
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 142	E



GENERAL NOTES

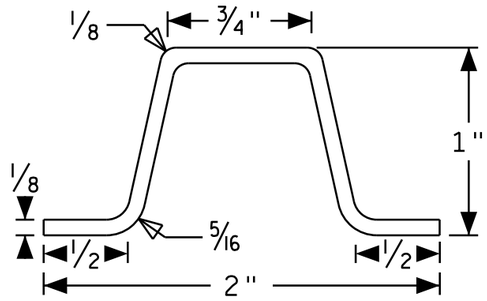
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

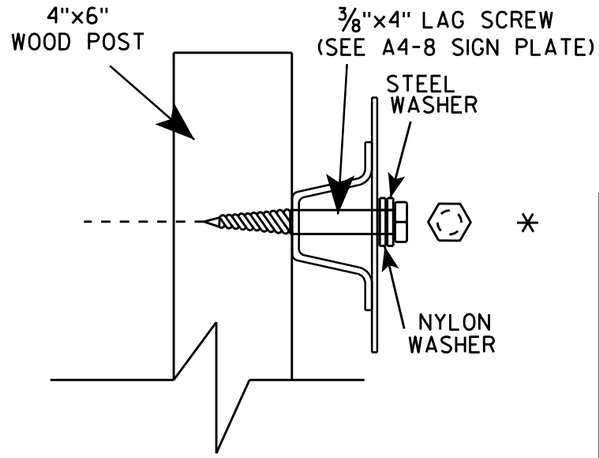


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

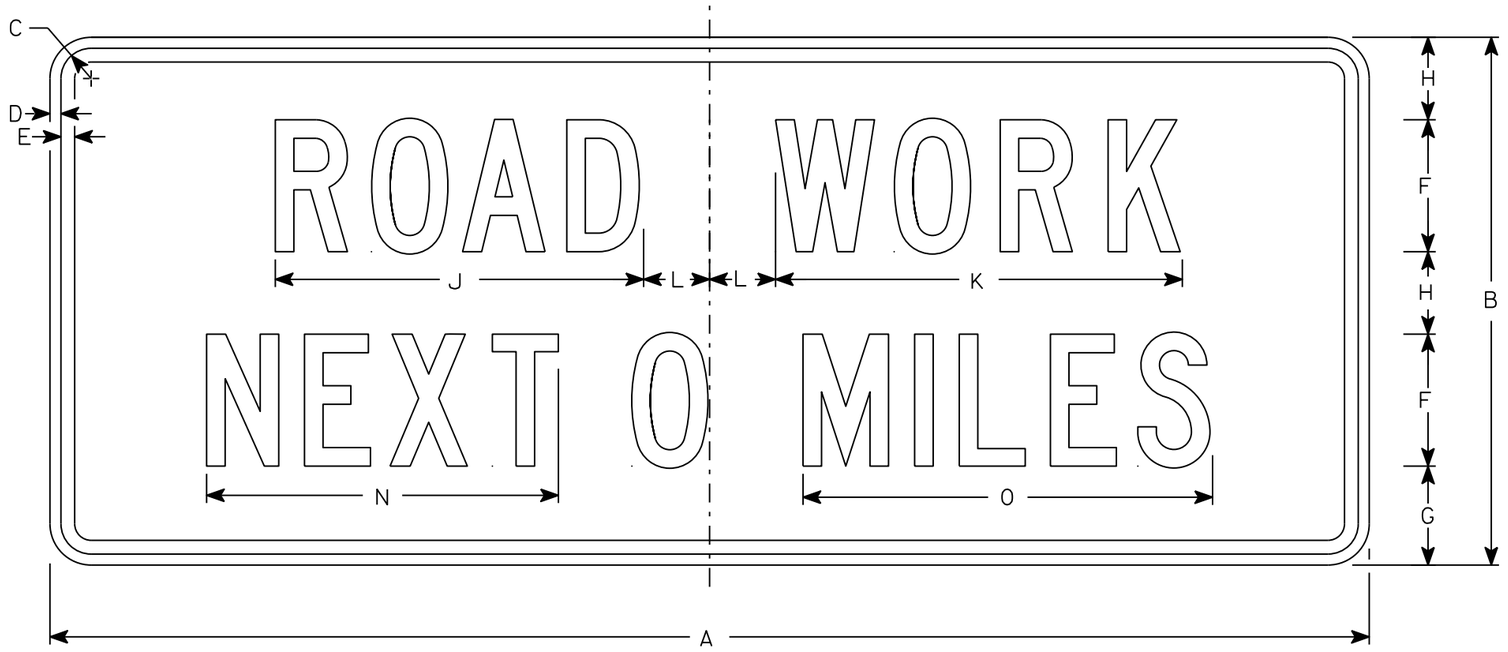
APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 4/26/16 PLATE NO A4-18.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42



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

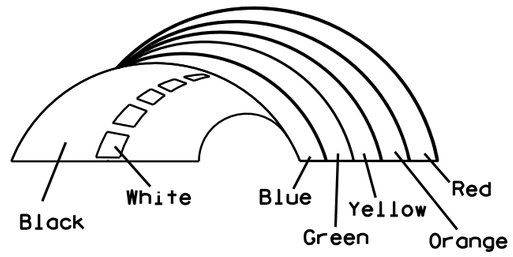
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 144 | E

* VARIES

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - (See Note 5)
3. Message Series - (See Note 6)
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

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	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

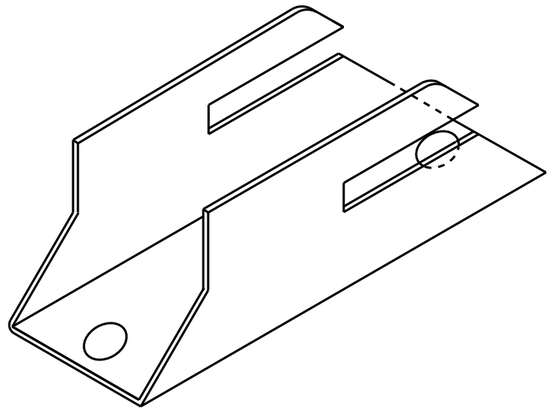
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

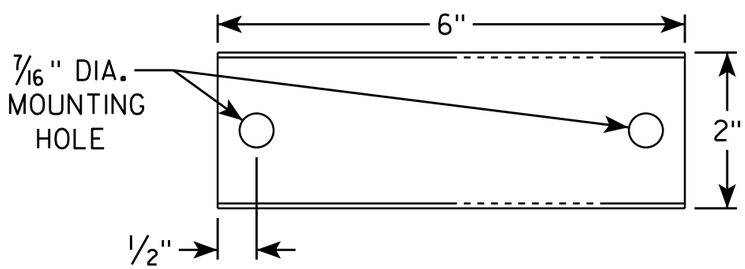
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 145

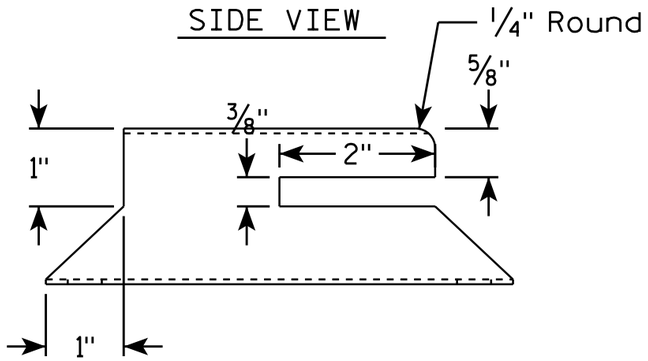
ISOMETRIC VIEW



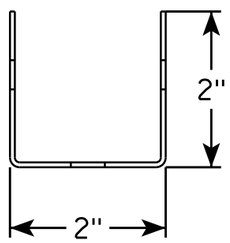
TOP VIEW



SIDE VIEW



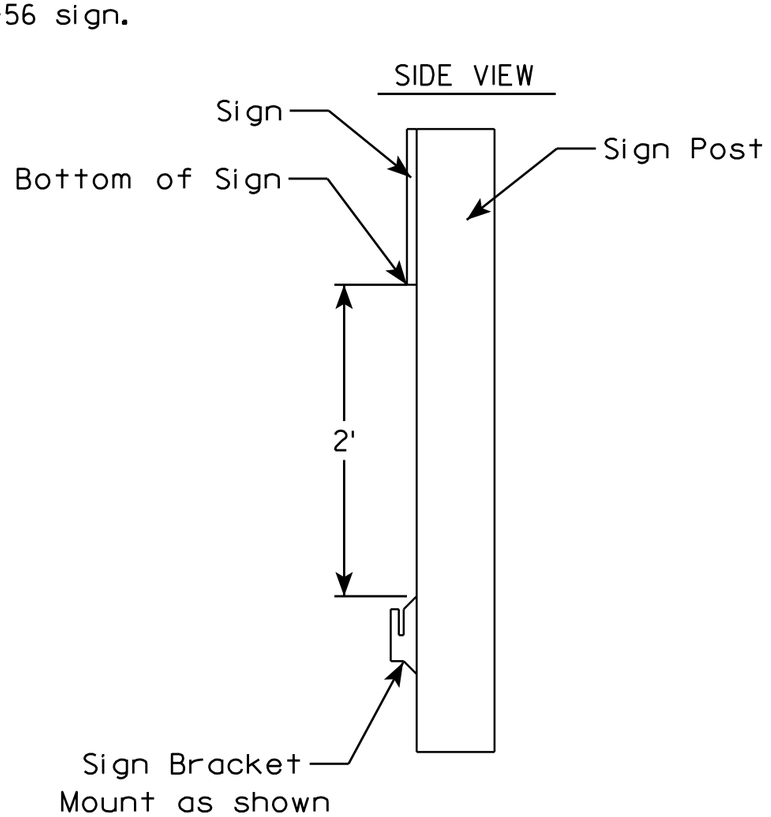
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

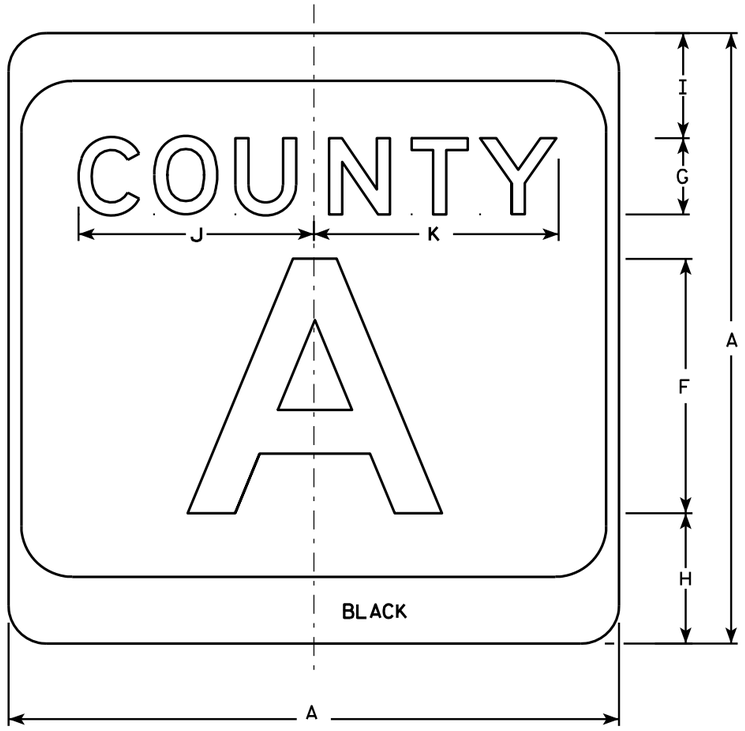
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

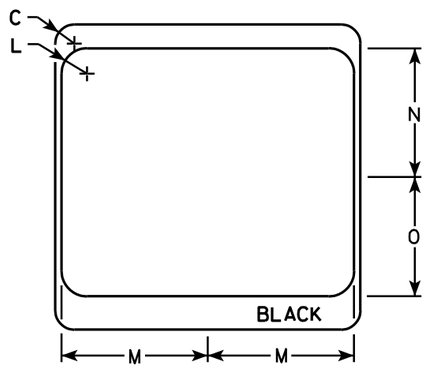
DATE 4/26/16 PLATE I55-56B.2

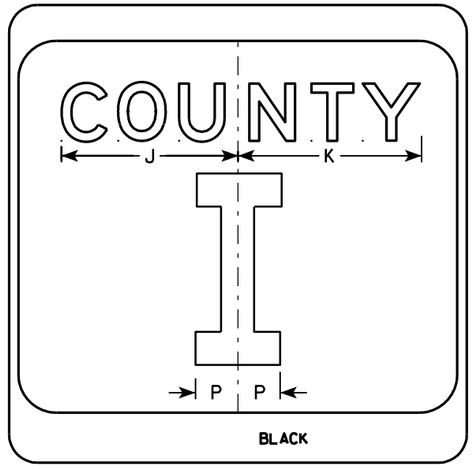
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

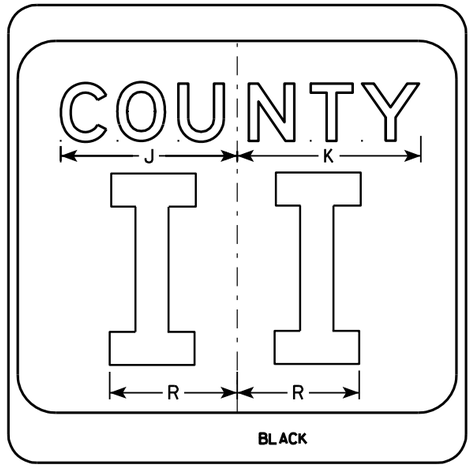
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000 WISDOT/CADDS SHEET 42



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
5	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

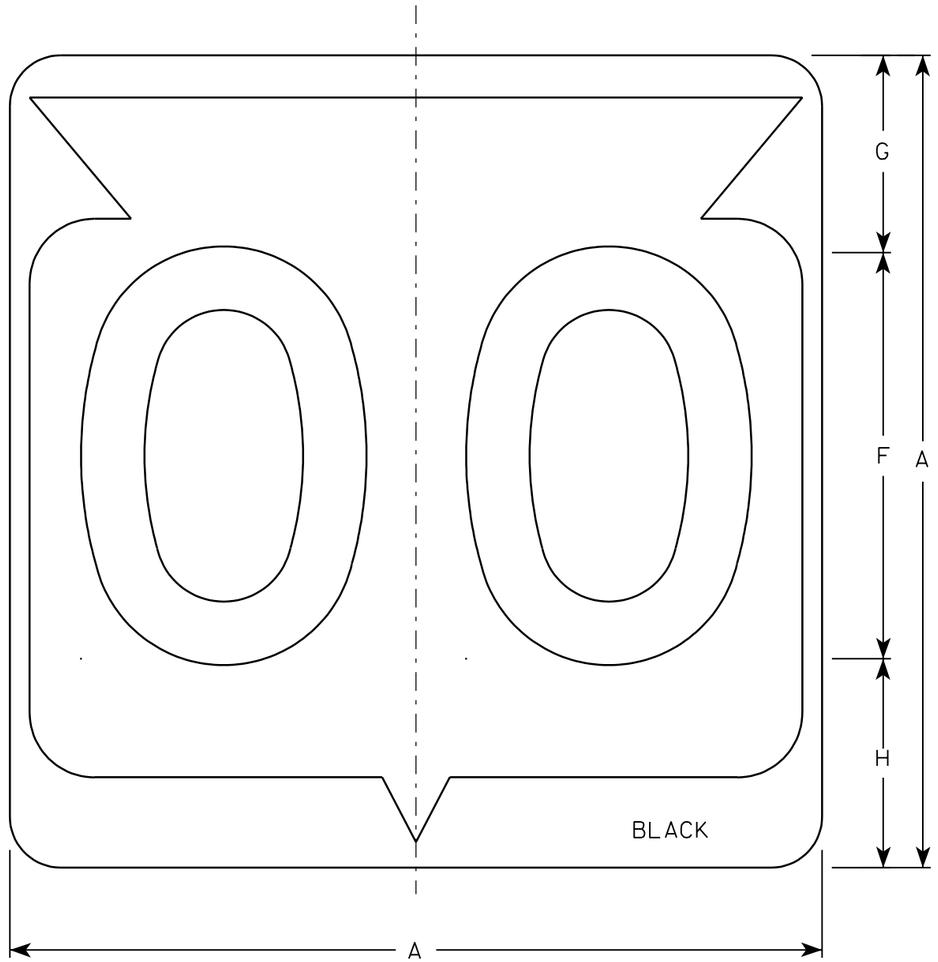
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

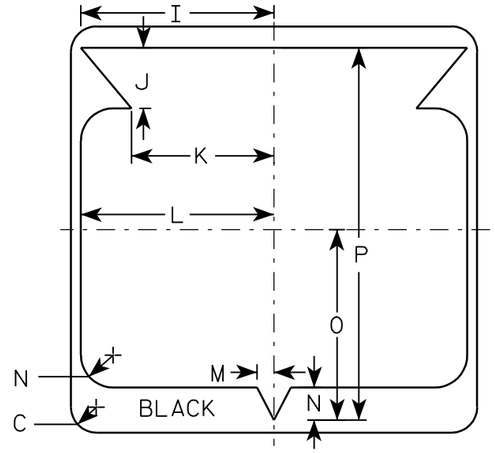
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 147	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

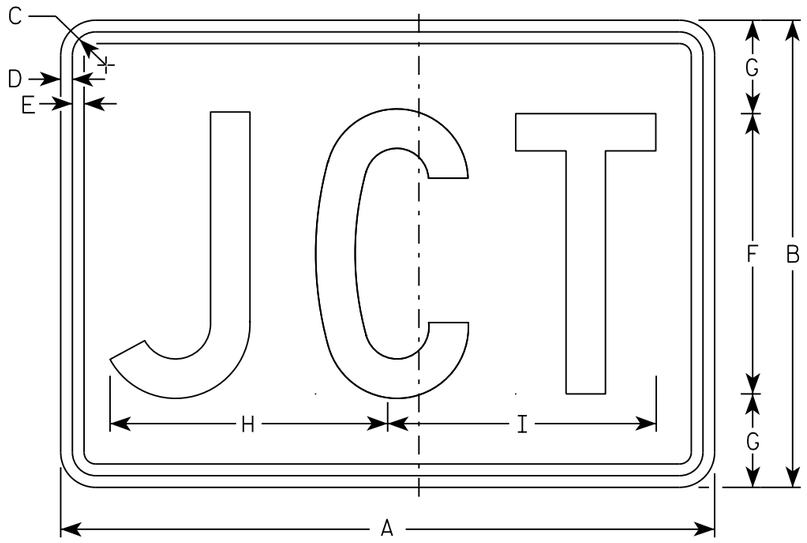
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

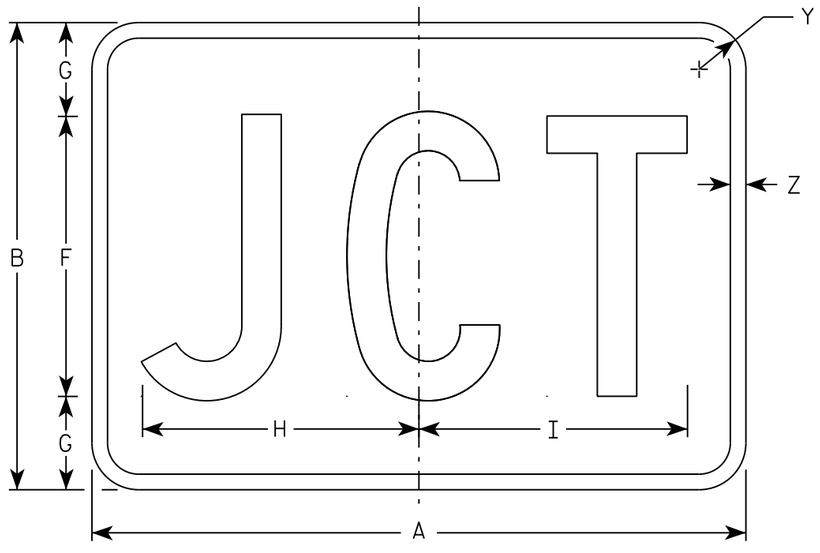
APPROVED Chester J Spang for State Traffic Engineer

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

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



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

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	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

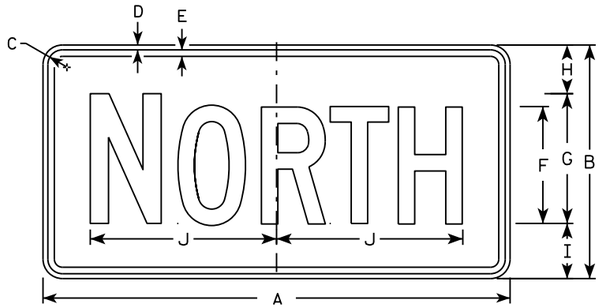
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

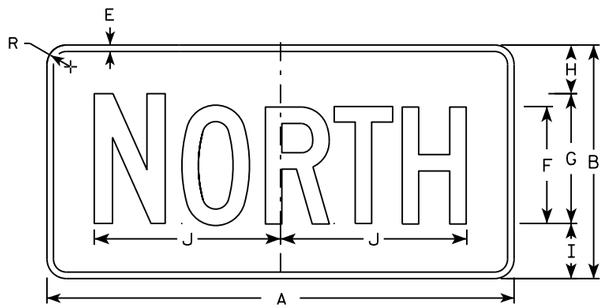
DATE 10/15/15 PLATE 149 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



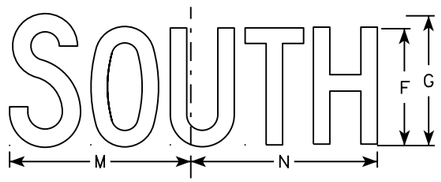
M3-1
MM3-1
MP3-1



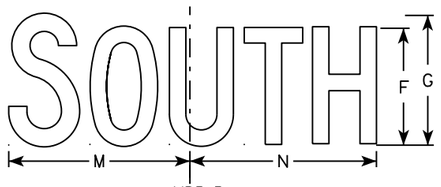
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

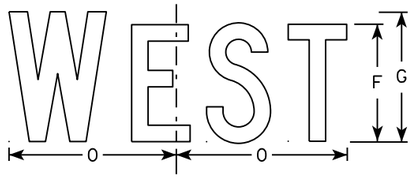
MB3-2
MK3-2
MN3-2



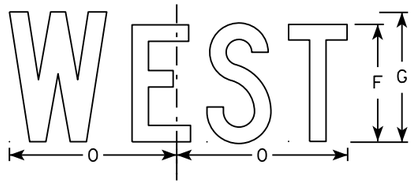
M3-3
MM3-3
MP3-3



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

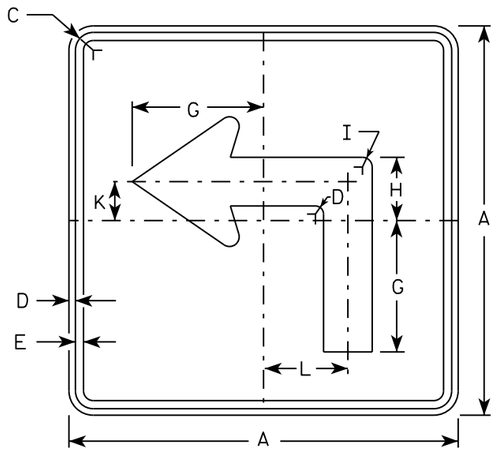
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

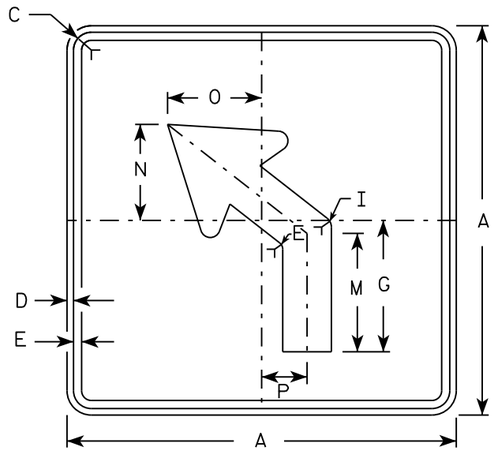
DATE 10/15/15 PLATE NO M3-1.14

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

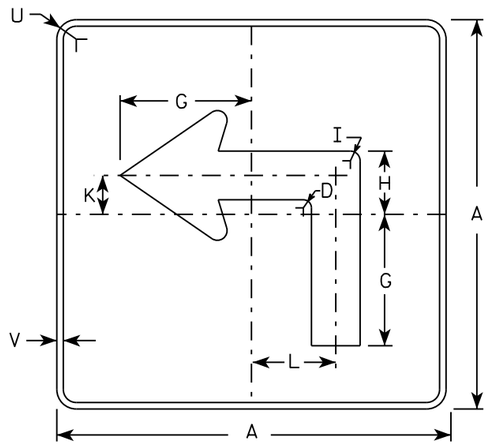
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



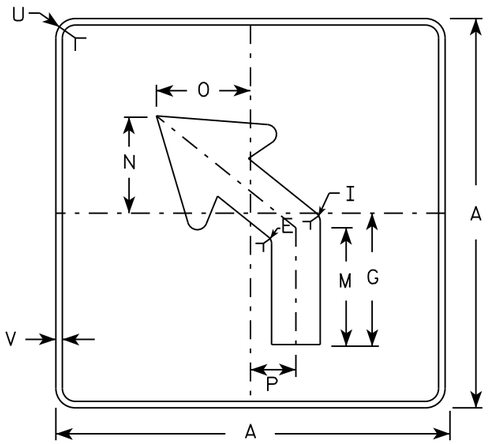
M5-1L
MM5-1L
MO5-1L
MP5-1L



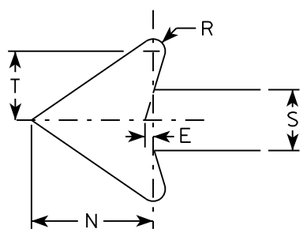
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective 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. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

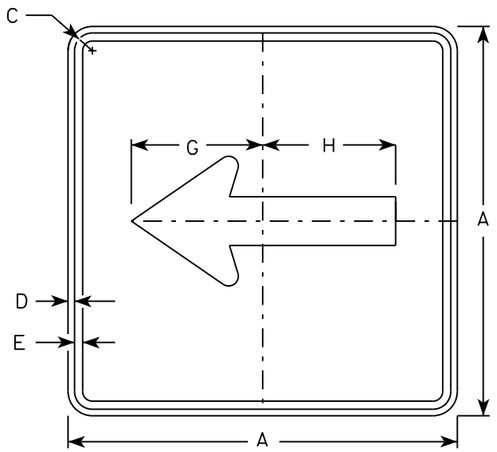
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

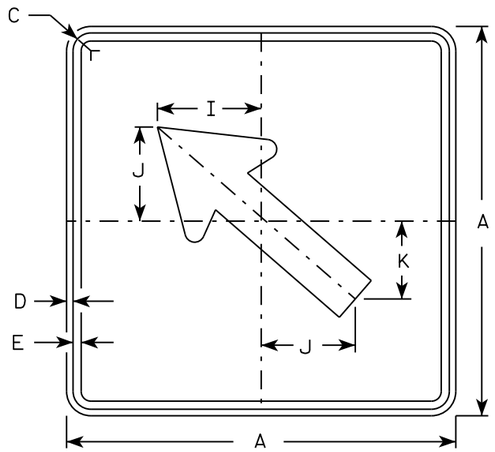
DATE 10/15/15 PLATE NO. M5-1.13

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



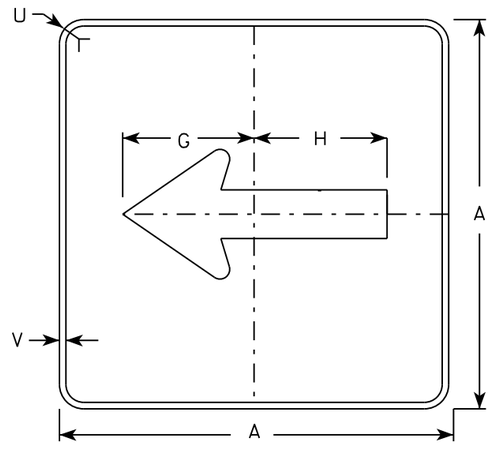
M6-1
MM6-1
MO6-1
MP6-1



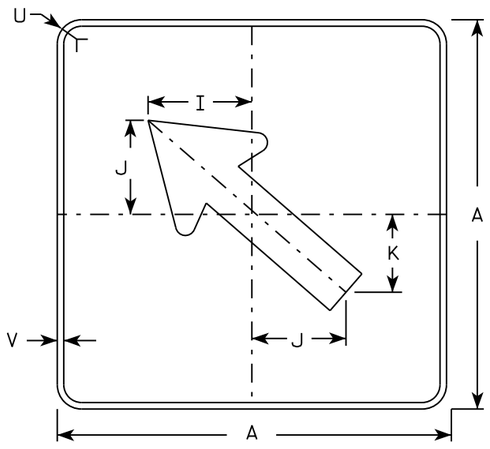
M6-2
MM6-2
MO6-2
MP6-2

NOTES

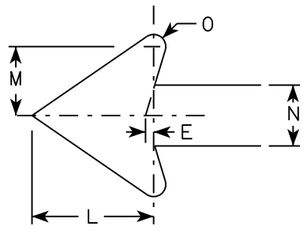
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background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

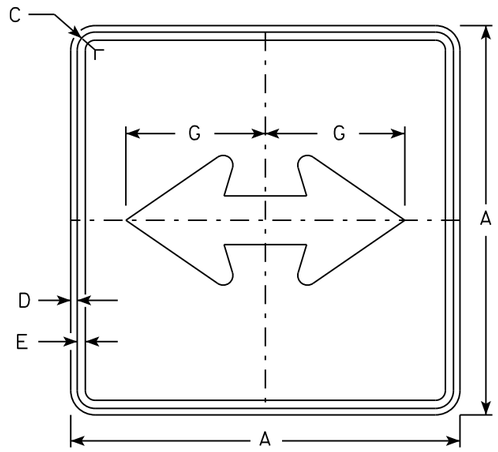
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

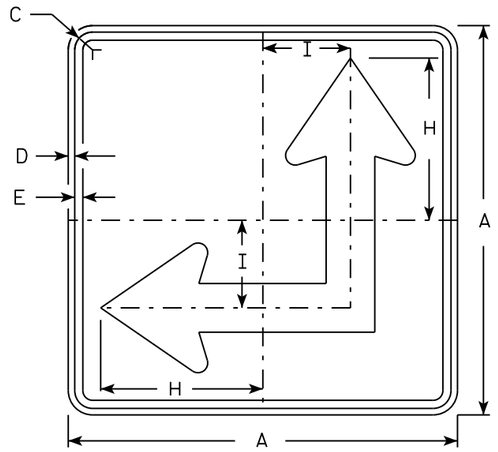
DATE 10/15/15 PLATE 152 M6-1.15

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



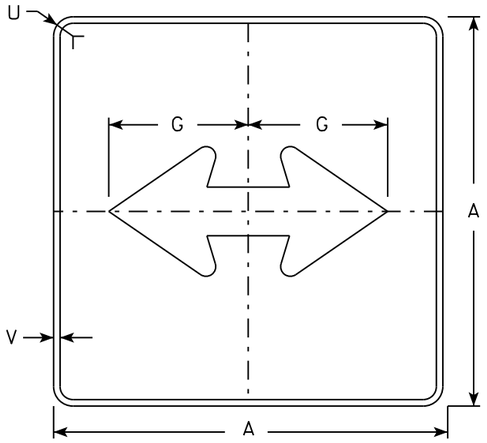
M6-4
MM6-4
MO6-4
MP6-4



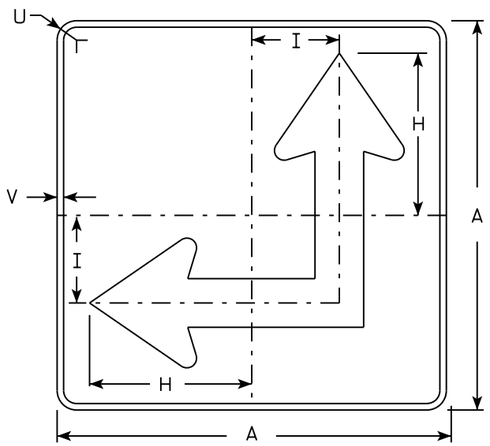
M6-6
MM6-6
MO6-6
MP6-6

NOTES

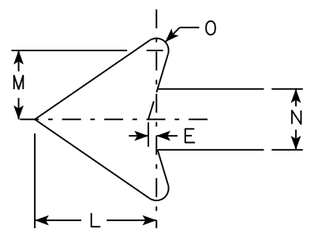
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background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

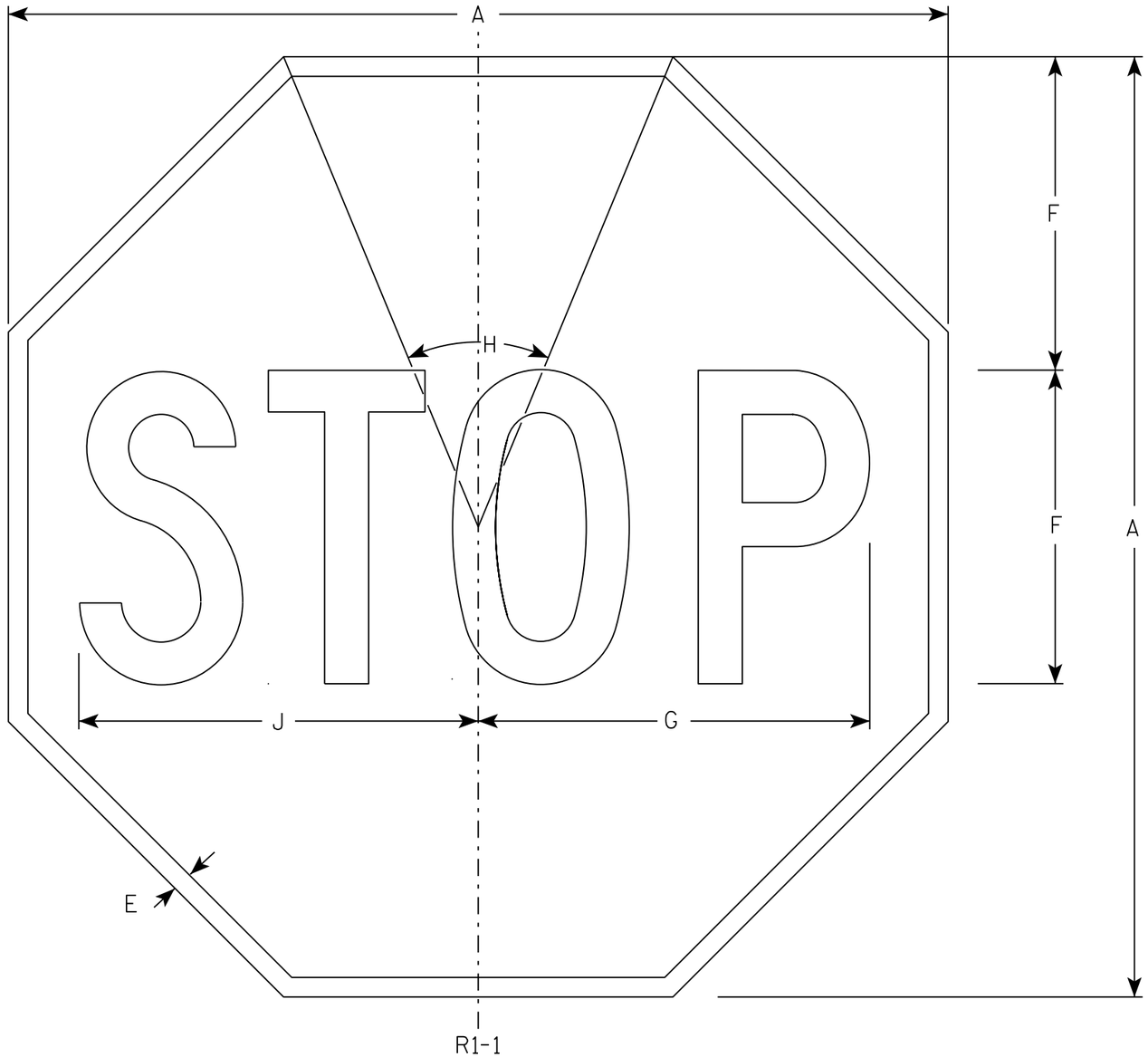
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 153 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

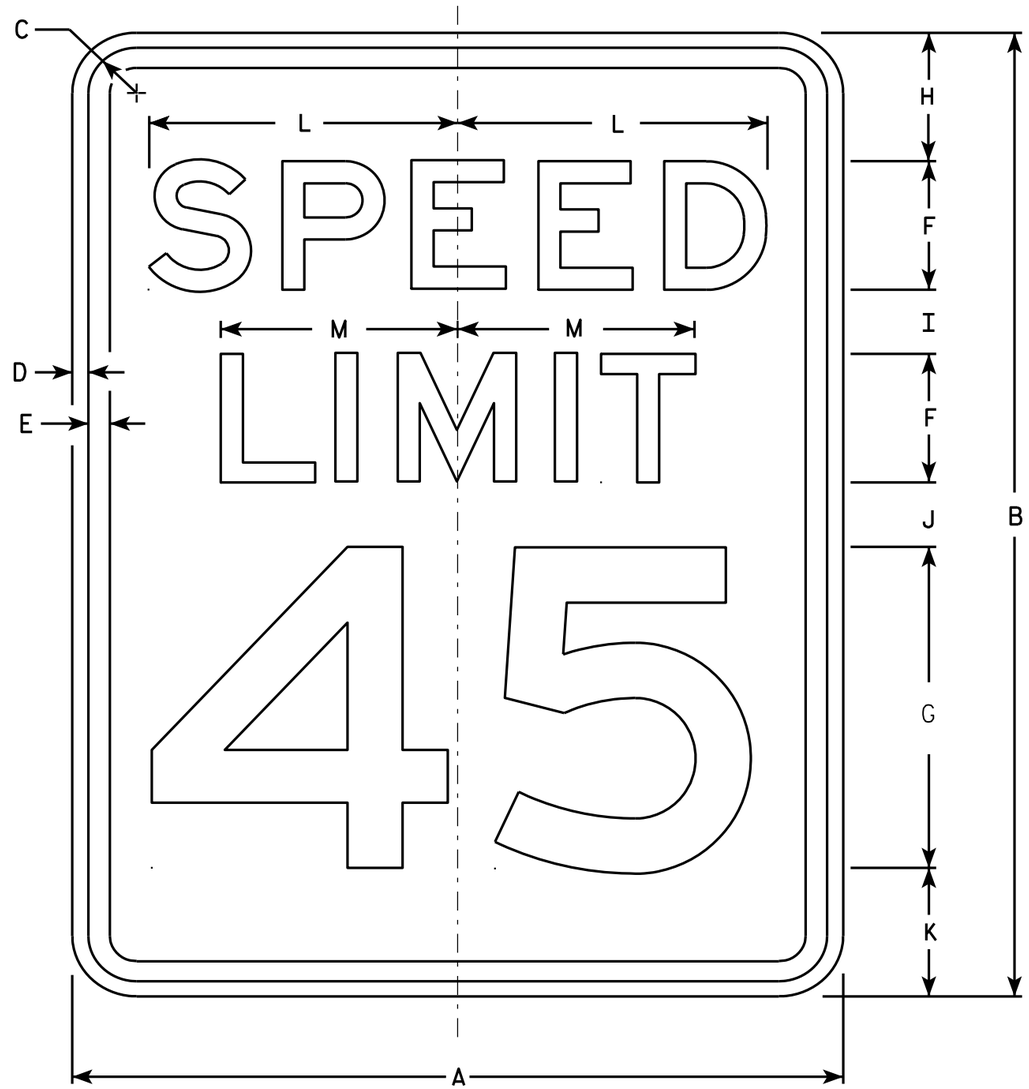
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE 154 R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



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

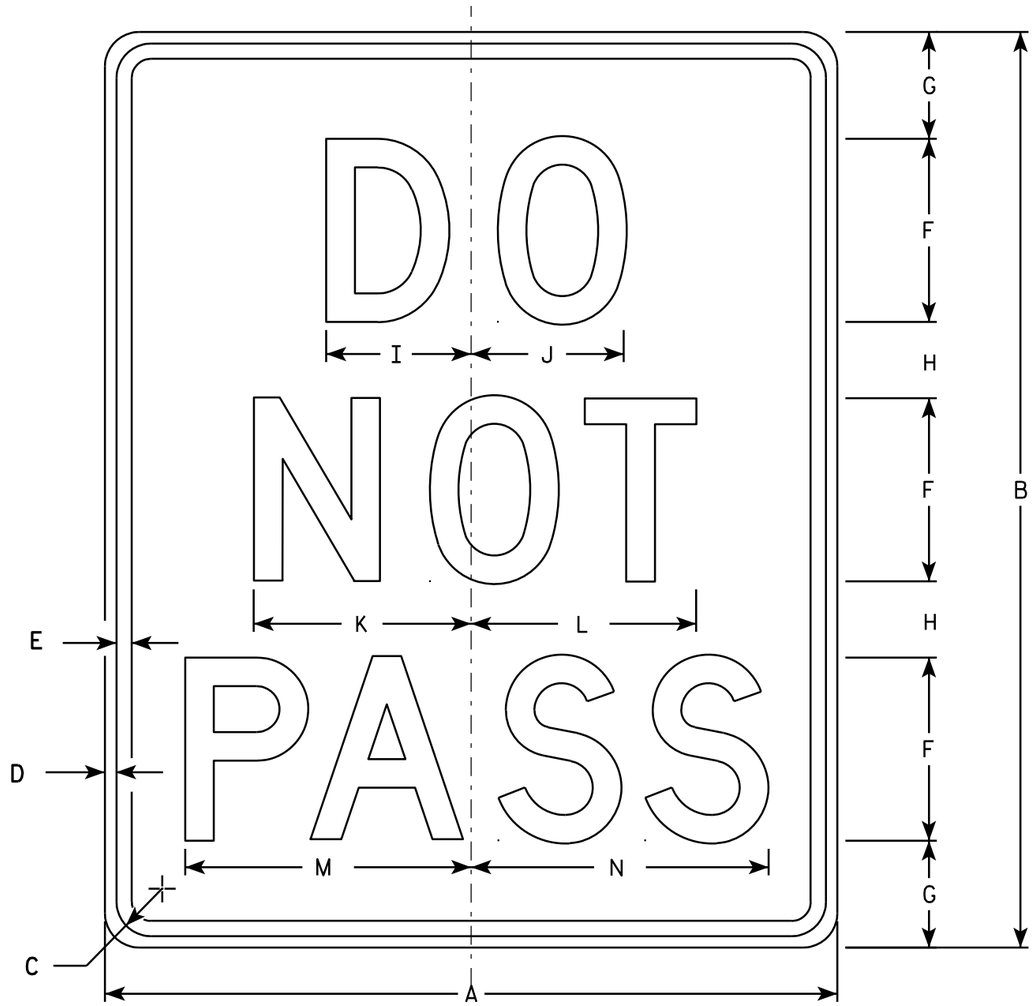
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 155 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000
WISDOT/CADDS SHEET 42



R4-1

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 - 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	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 7/8	12 1/4	15 5/8	16 1/4													20.0

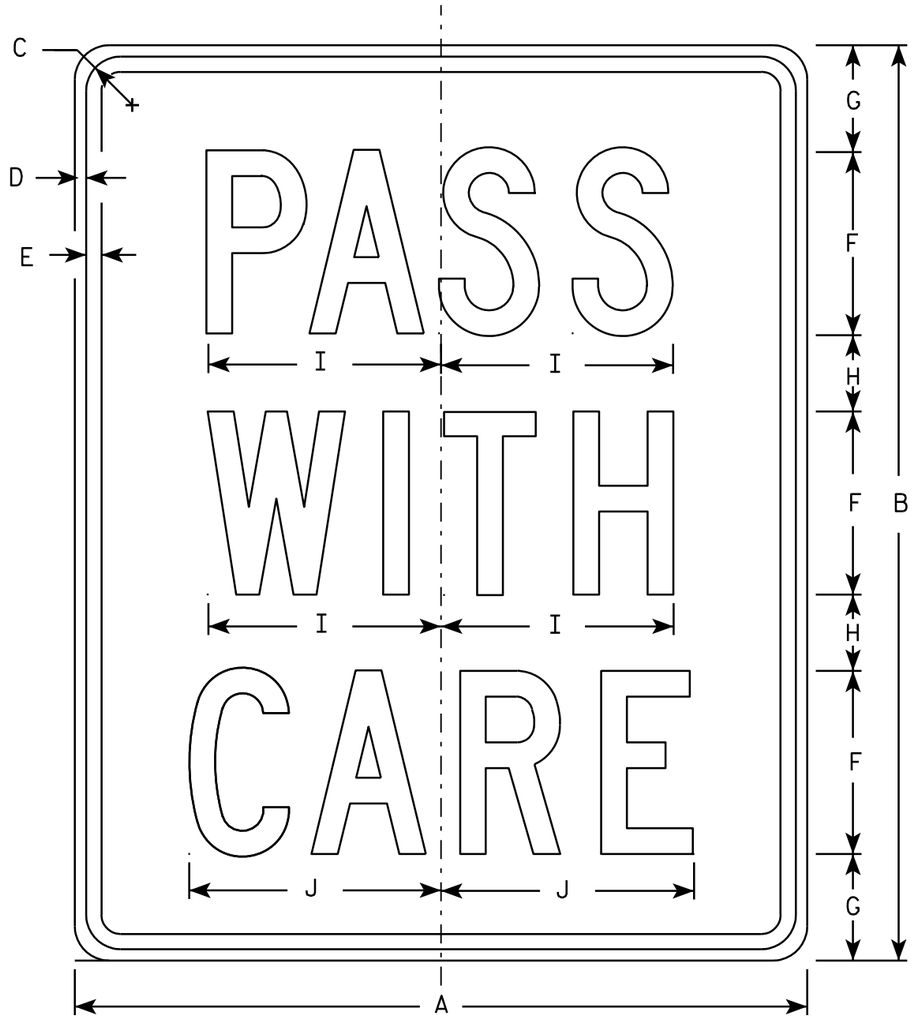
STANDARD SIGN
R4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-1.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 156 | E



R4-2

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 - 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	18	24	1 1/8	3/8	1/2	5	2 3/4	1 3/4	6 3/8	6 7/8																	3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	7 5/8	8 1/4																	5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	7 5/8	8 1/4																	5.0
3	36	48	1 3/8	1/2	5/8	10	5 1/2	3 1/2	12 3/4	13 3/4																	12.0
4																											
5																											

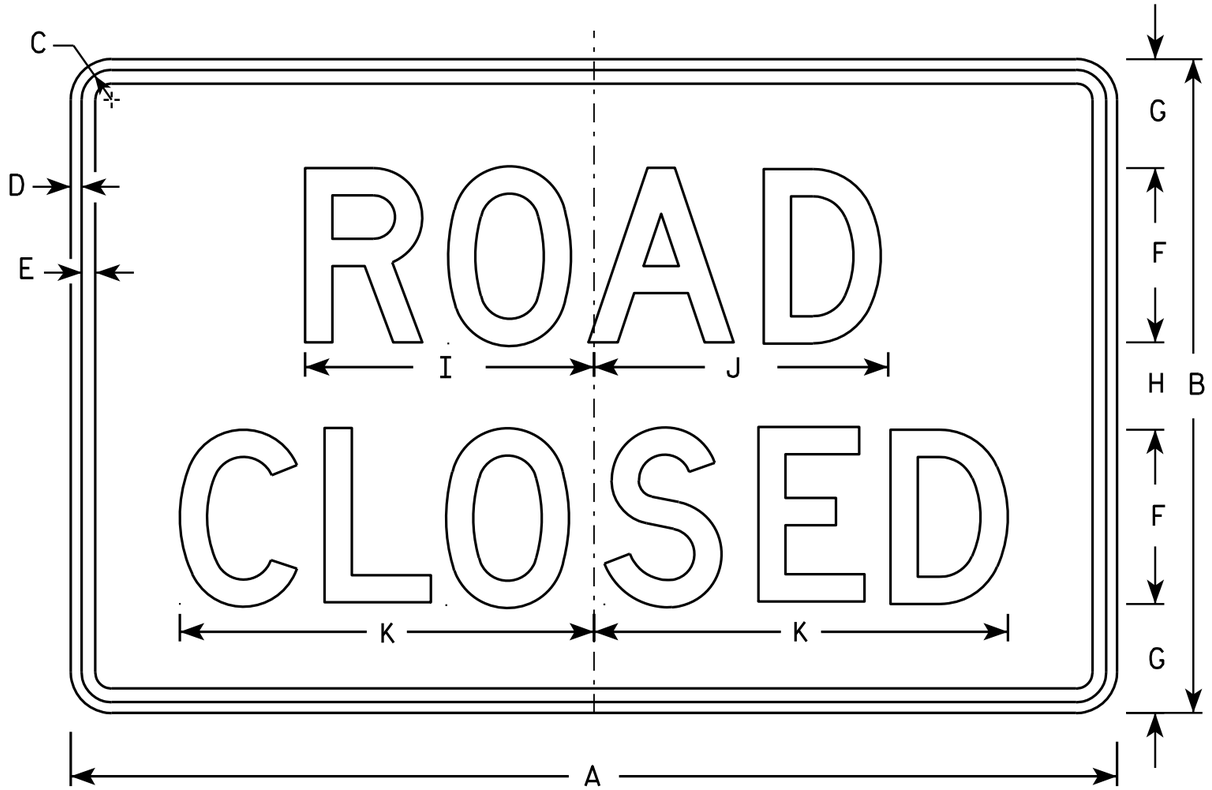
STANDARD SIGN
R4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-2.6

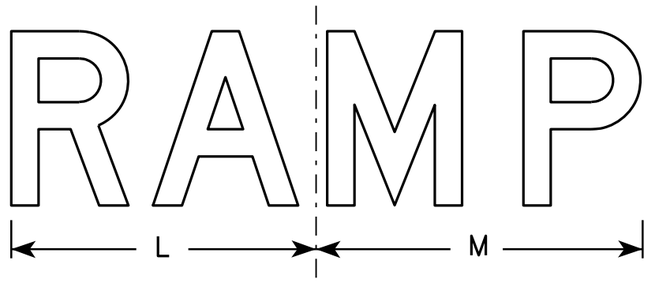
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 157	E



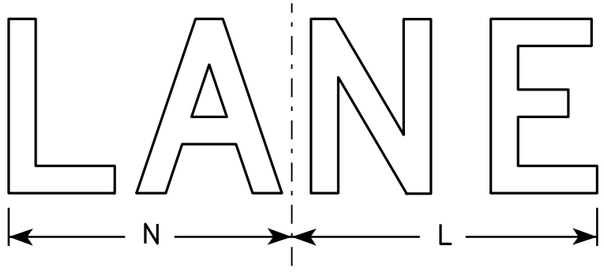
R11-2

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

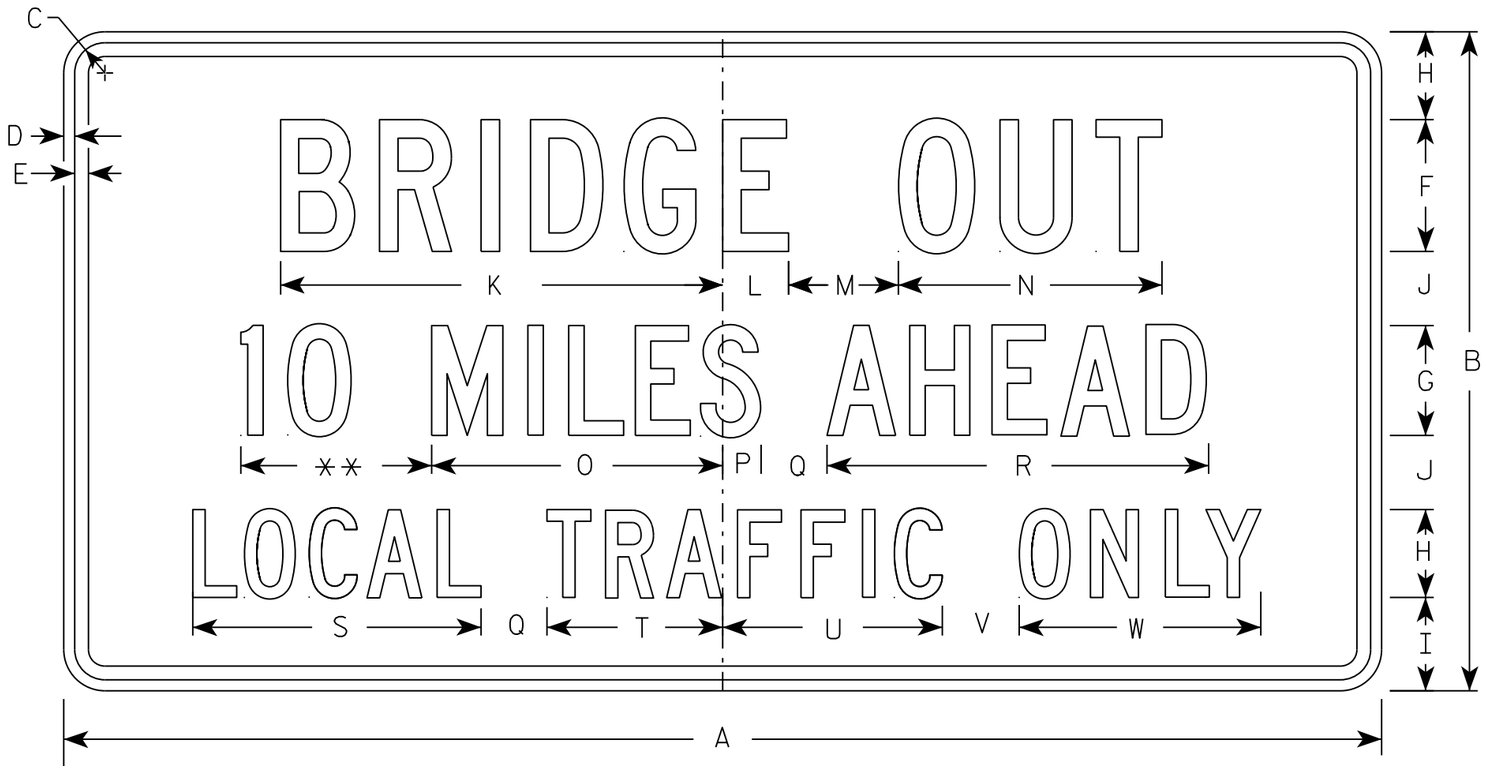
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

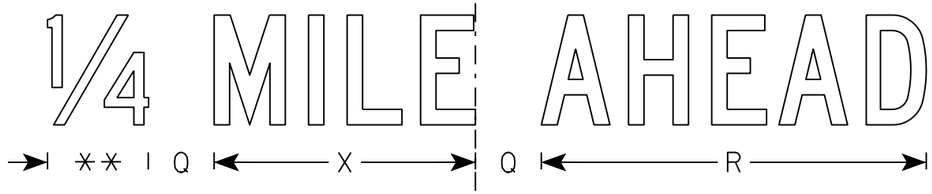
DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 158	E



R11-3B

** See Note 5



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile 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	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

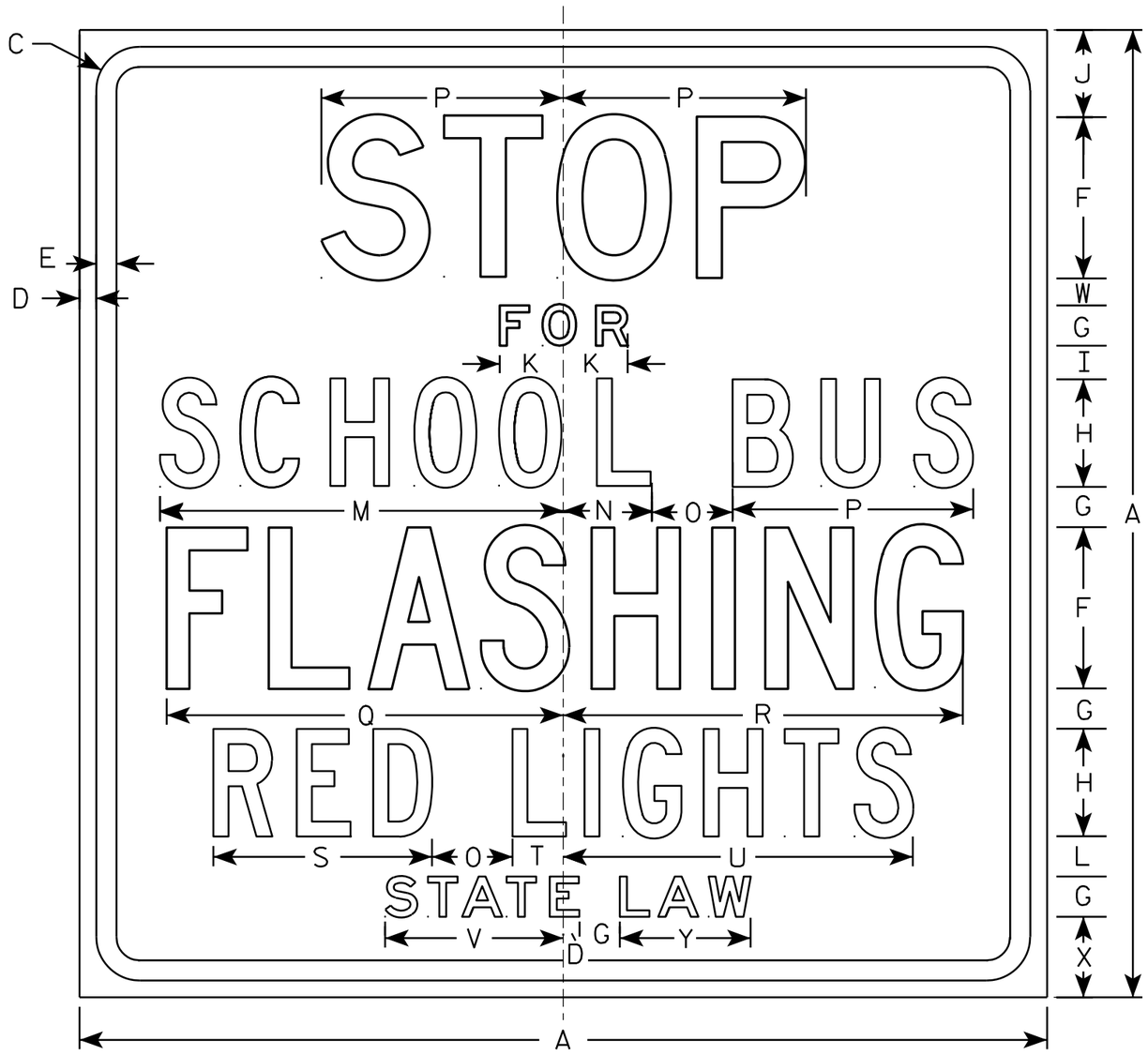
STANDARD SIGN
R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. R11-3B.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 159 | E



R59-51

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 - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

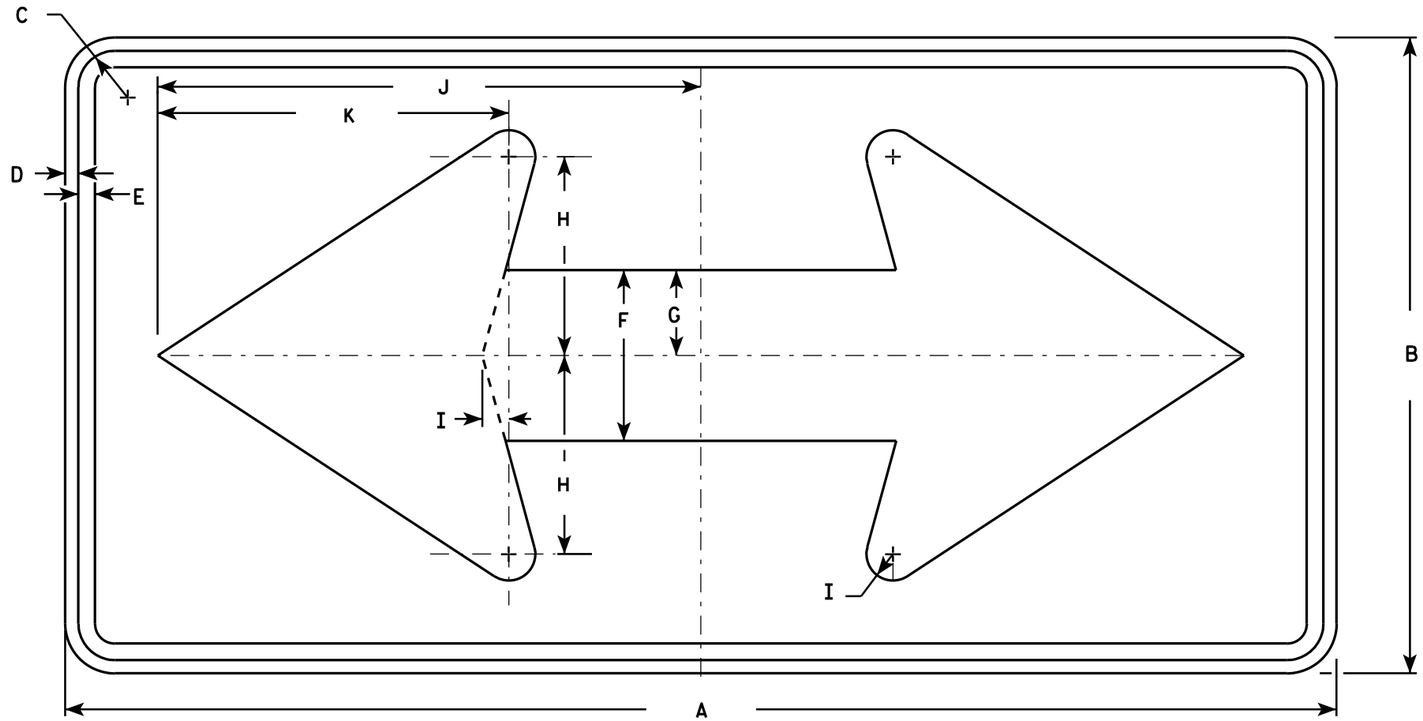
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 160 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R5951.DGN 30-MAR-2011 09:59 PLOT DATE : 30-MAR-2011 09:59 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.287650:1.000000

WISDOT/CADDS SHEET 42

7

7



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

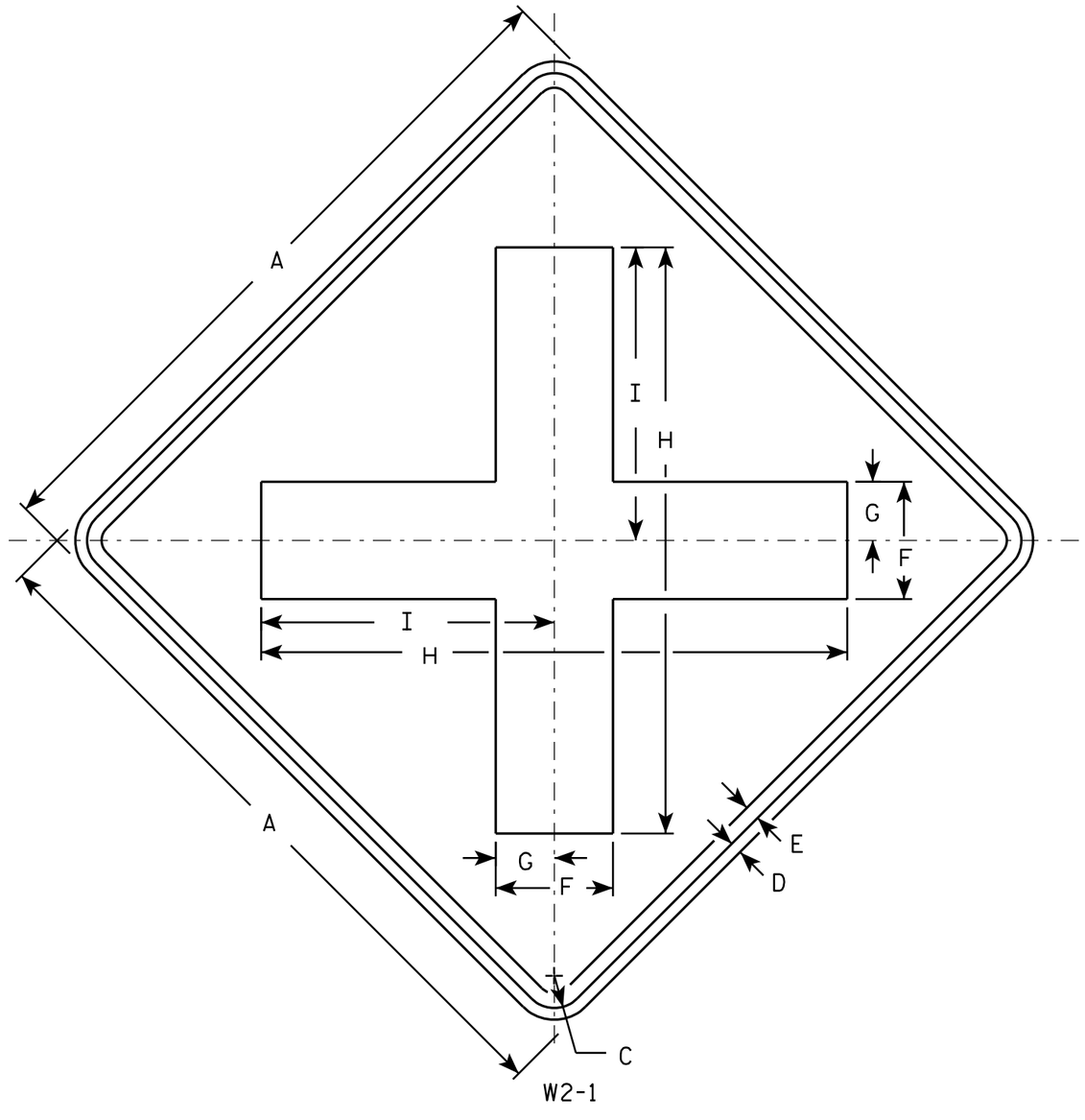
STANDARD SIGN
W1-7

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: 161 | 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.

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	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

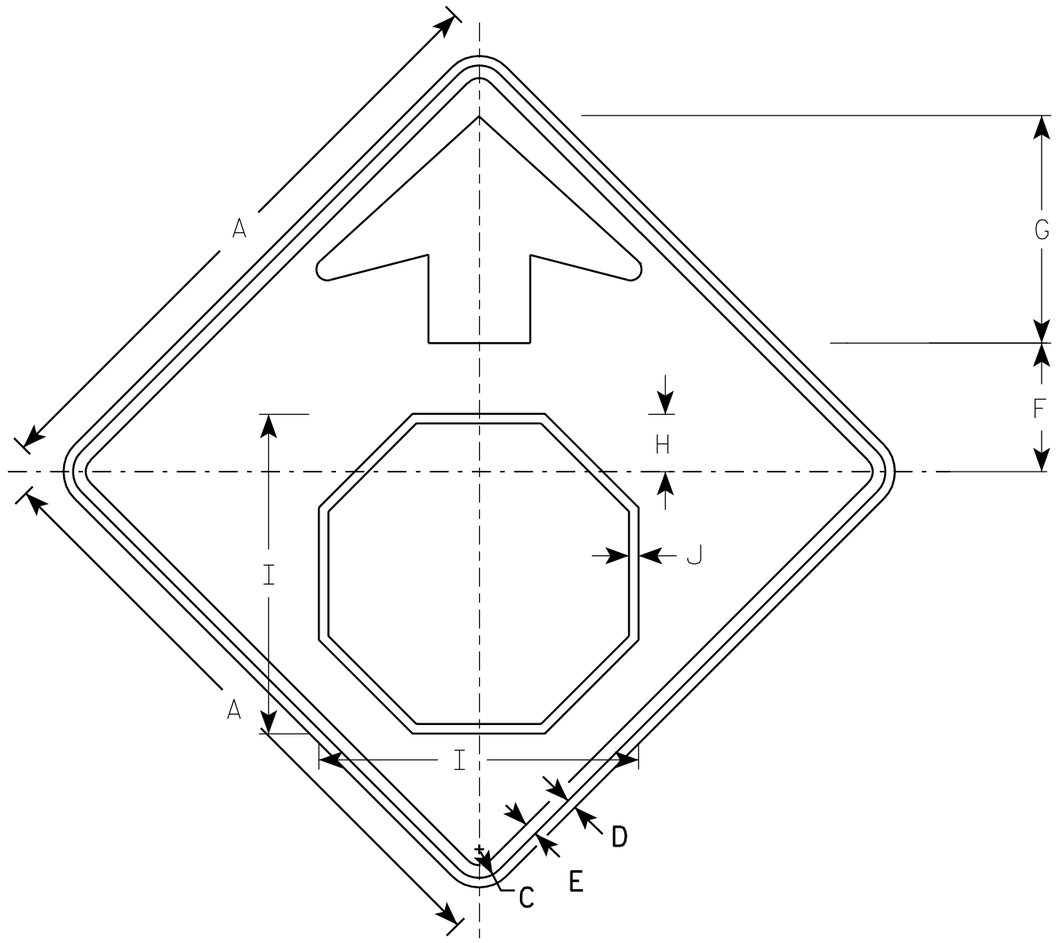
STANDARD SIGN
W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-1.9

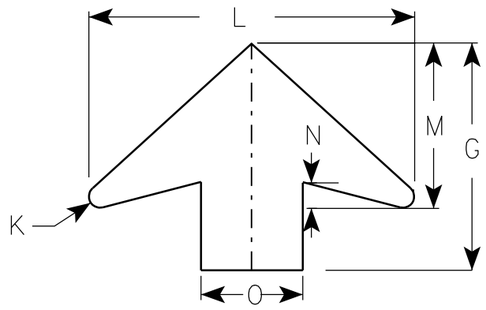
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 162	E



W3-1

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
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



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	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

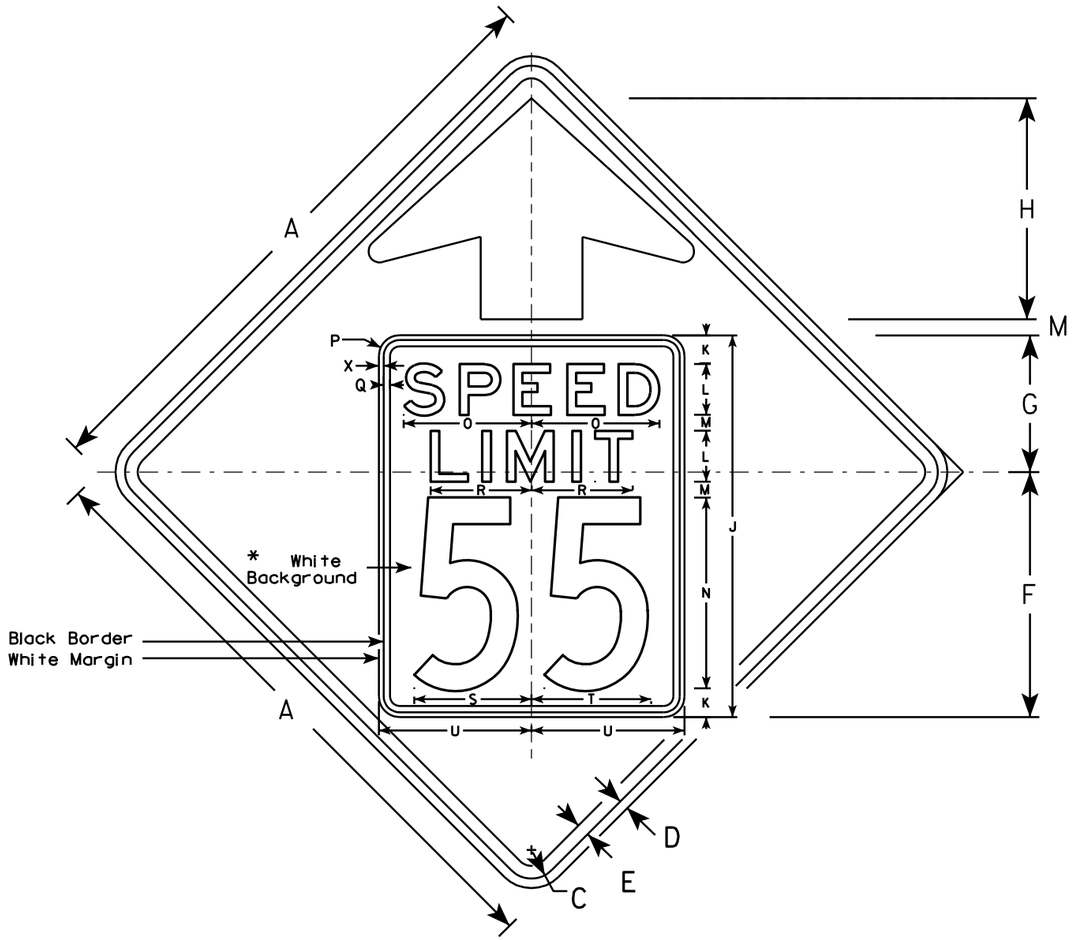
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 163 E

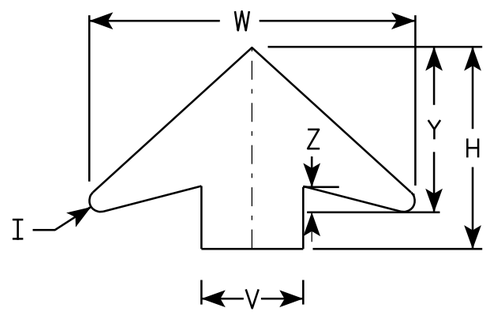


W3-5

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 - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	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

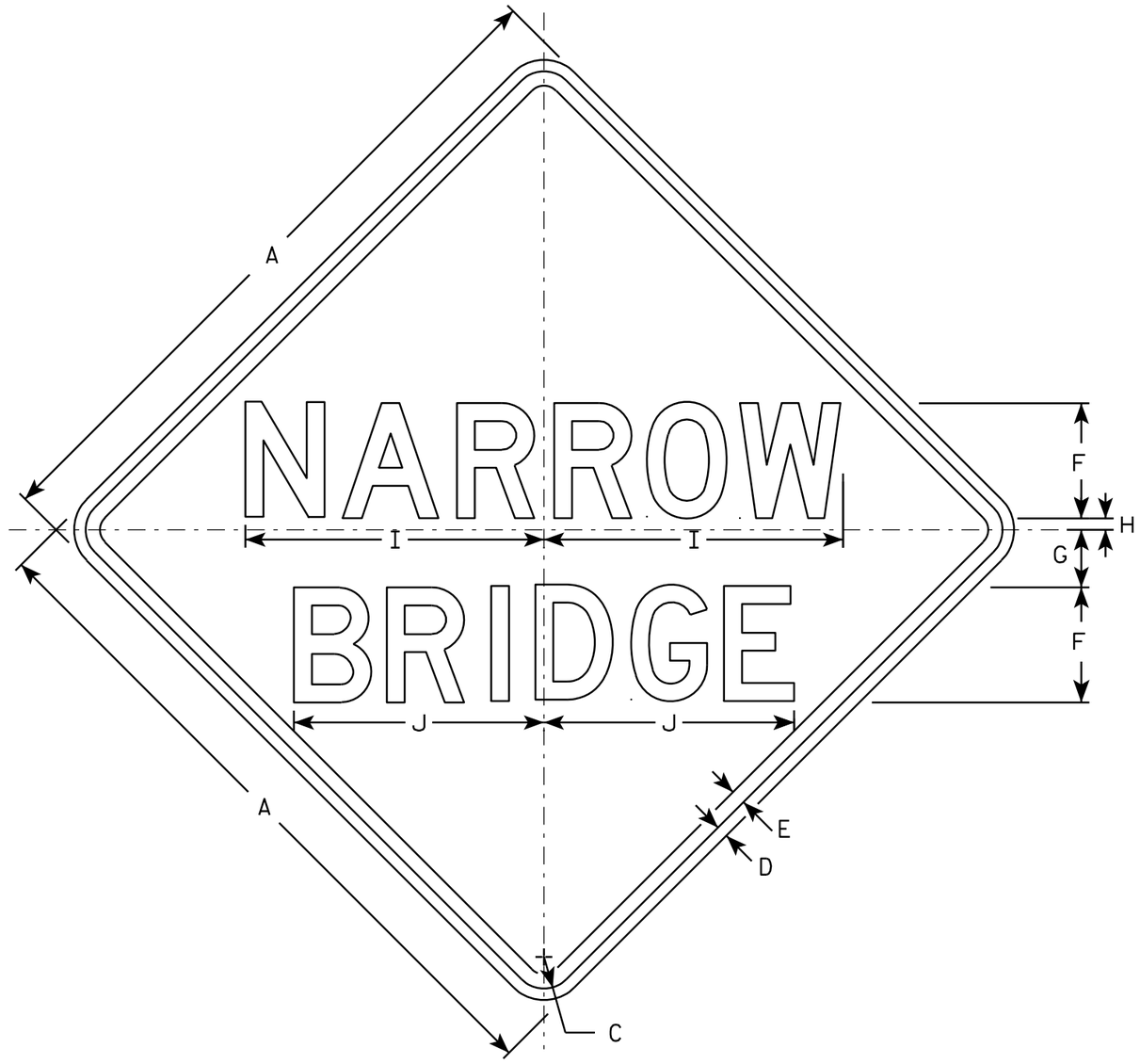
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 164 E



W5-2

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. 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	30		1 3/8	1/2	5/8	5	2 1/2	1/2	13	10 7/8																	6.25
2S	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
2M	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
3	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
4	48		2 1/4	3/4	1	8	4	3/4	20 3/4	17 3/8																	16.0
5																											

STANDARD SIGN
W5-2

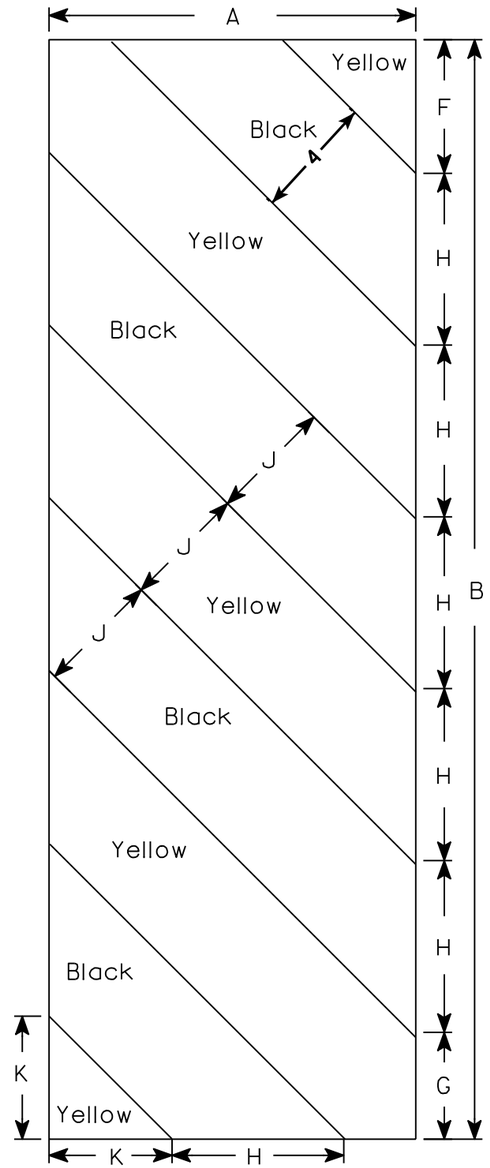
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

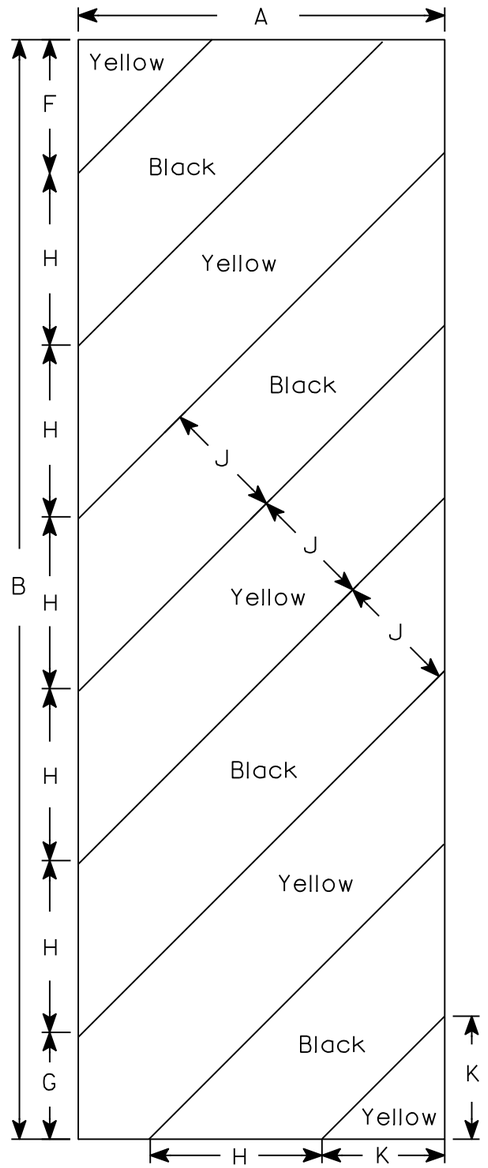
DATE 03/12/13 PLATE NO. W5-2.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 165 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W52.DGN PLOT DATE : 12-MAR-2013 13:50 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.202372:1.000000
WISDOT/CADDS SHEET 42



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

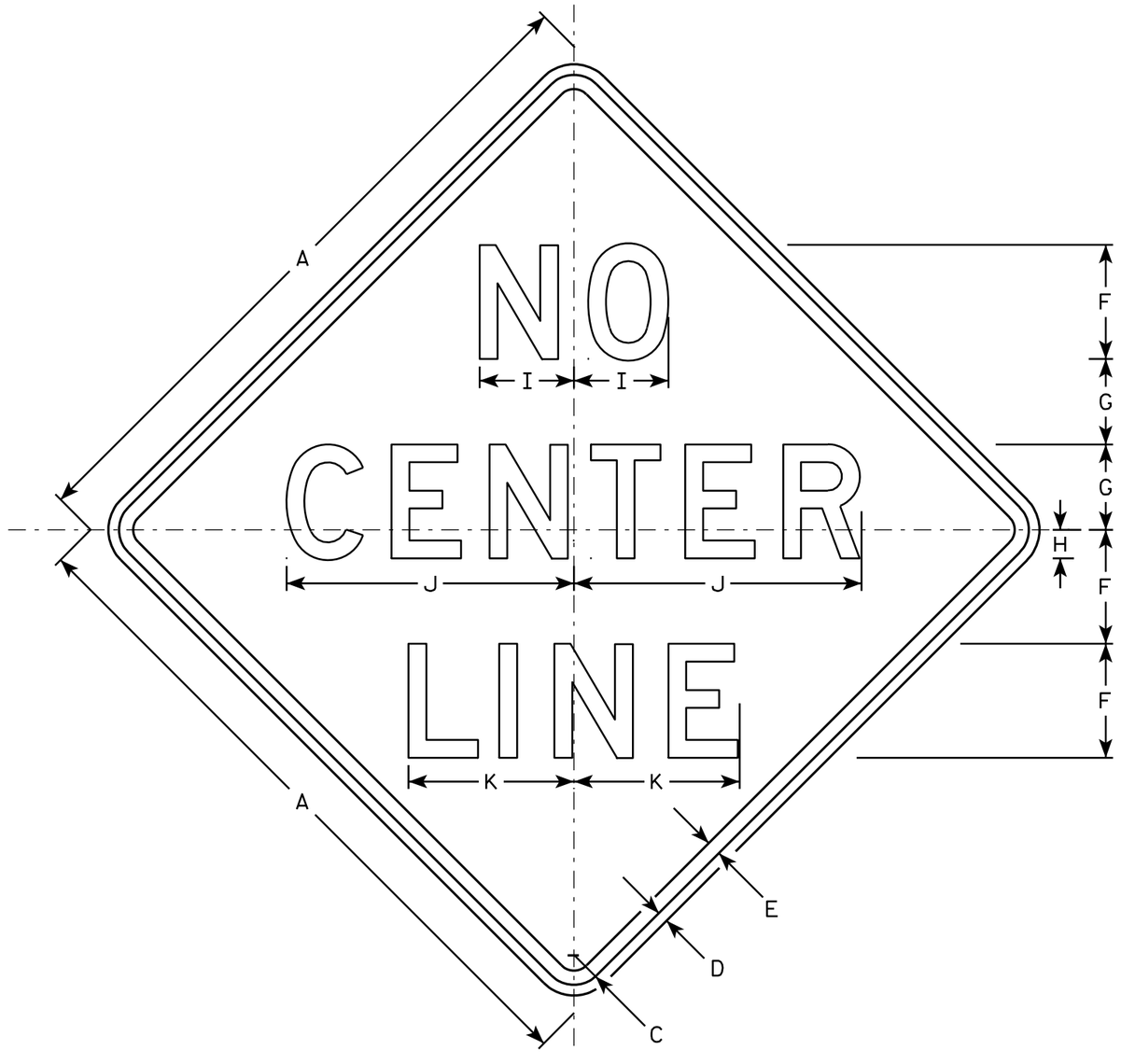
W5-52L & W5-52R

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: 166 | E



W8-12

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 - 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	36		1 5/8	5/8	3/4	6	4 1/2	1 1/2	5 1/8	16	9																9.0
2M	36		1 5/8	5/8	3/4	6	4 1/2	1 1/2	5 1/8	16	9																9.0
3	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
4	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
5	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0

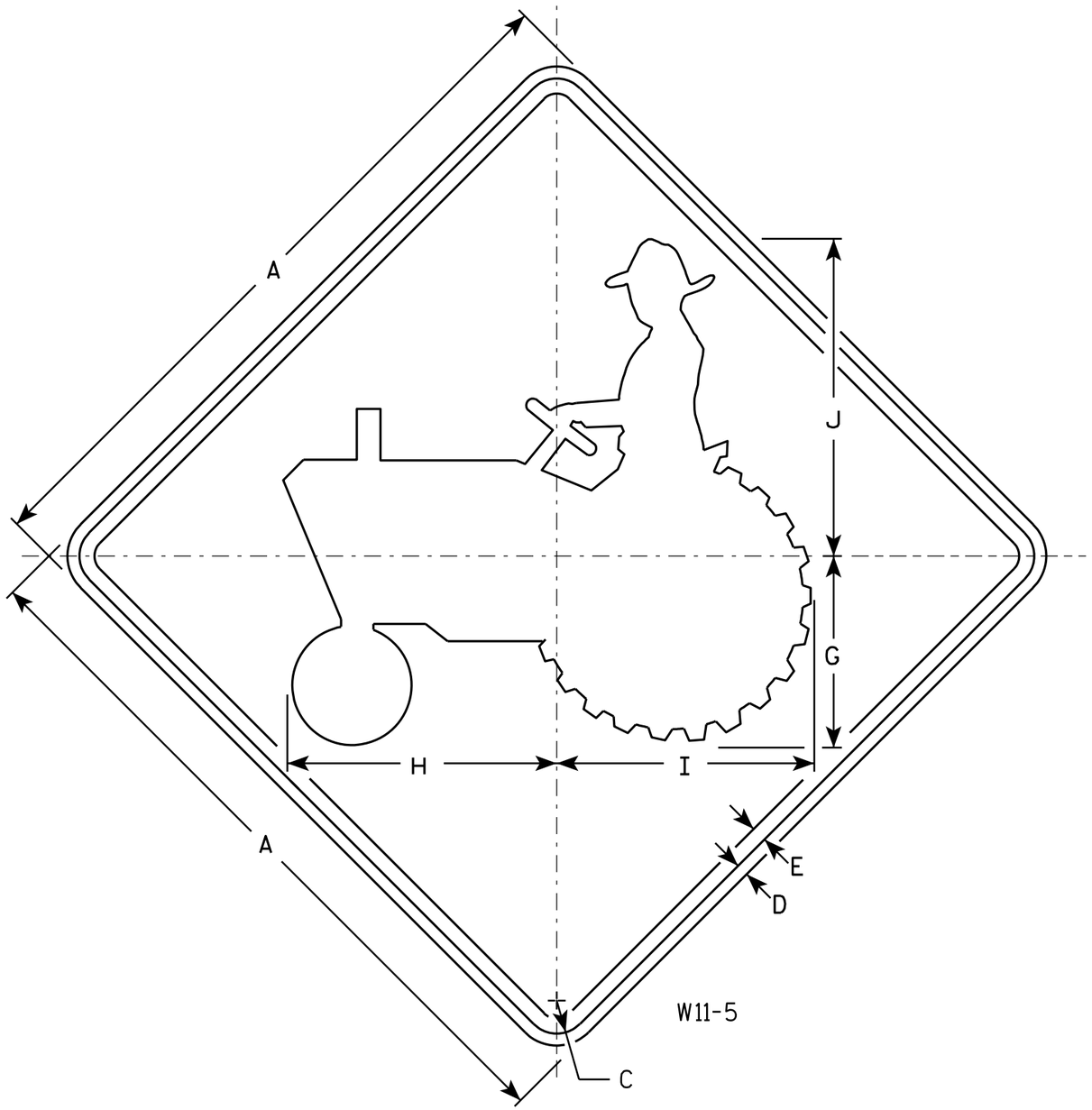
STANDARD SIGN
W8-12

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rausch
for State Traffic Engineer

DATE 8/24/10 PLATE NO. W8-12.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 167	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.

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		6 3/8	9	8 5/8	10 5/8																	4.0
2S	30		1 3/8	1/2	5/8		8	11 1/4	10 3/4	13 1/4																	6.25
2M	30		1 3/8	1/2	5/8		8	11 1/4	10 3/4	13 1/4																	6.25
3																											
4	36		1 5/8	5/8	3/4		9 5/8	13 1/2	12 7/8	16																	9.0
5	48		2 1/4	3/4	1		12 3/4	18	17 1/4	21 1/8																	16.0

STANDARD SIGN
W11-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/15 PLATE NO. W11-5.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 168	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W115.DGN PLOT DATE : 13-MAR-2013 12:53 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.706180:1.000000

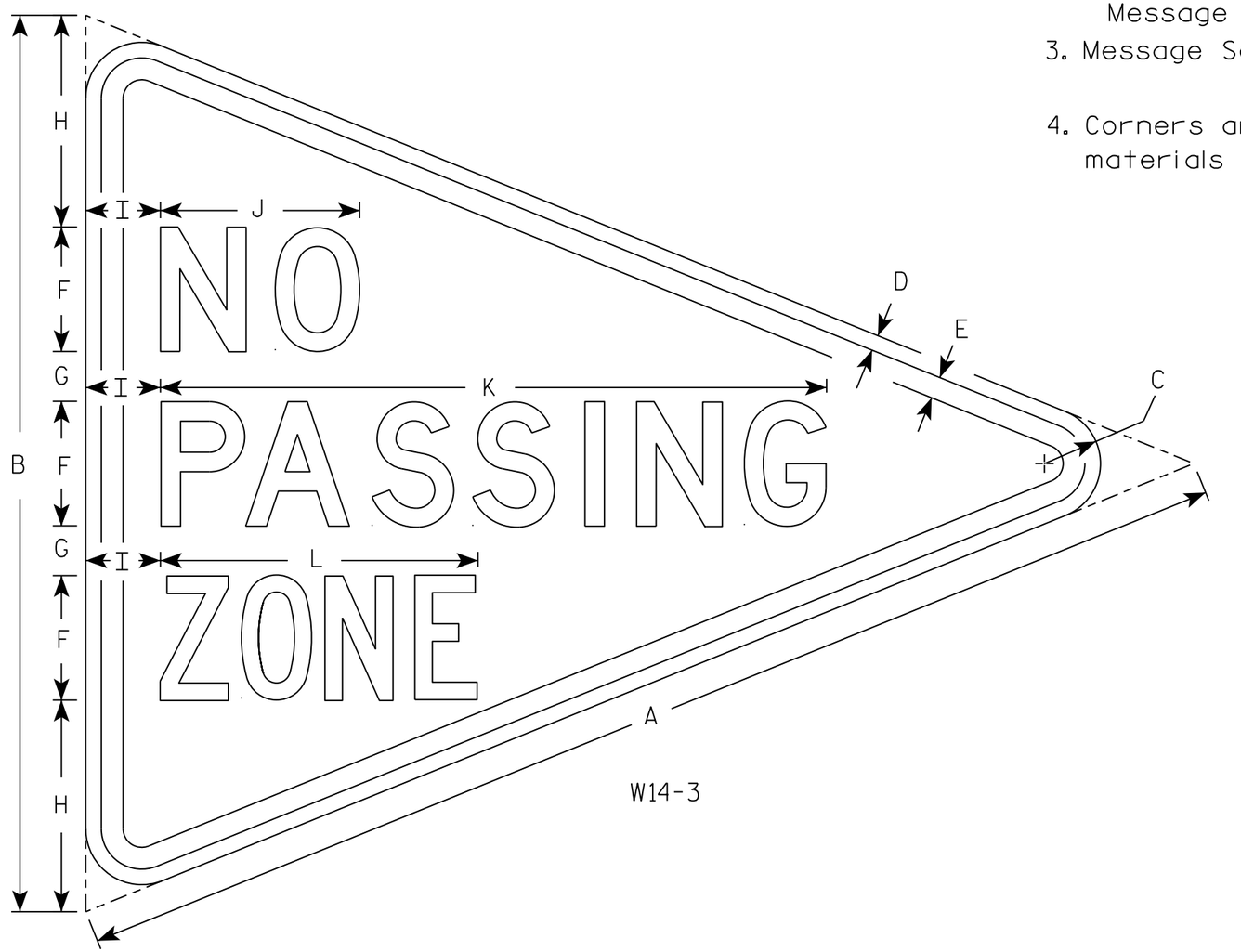
WISDOT/CADDS SHEET 42

7

7

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																											

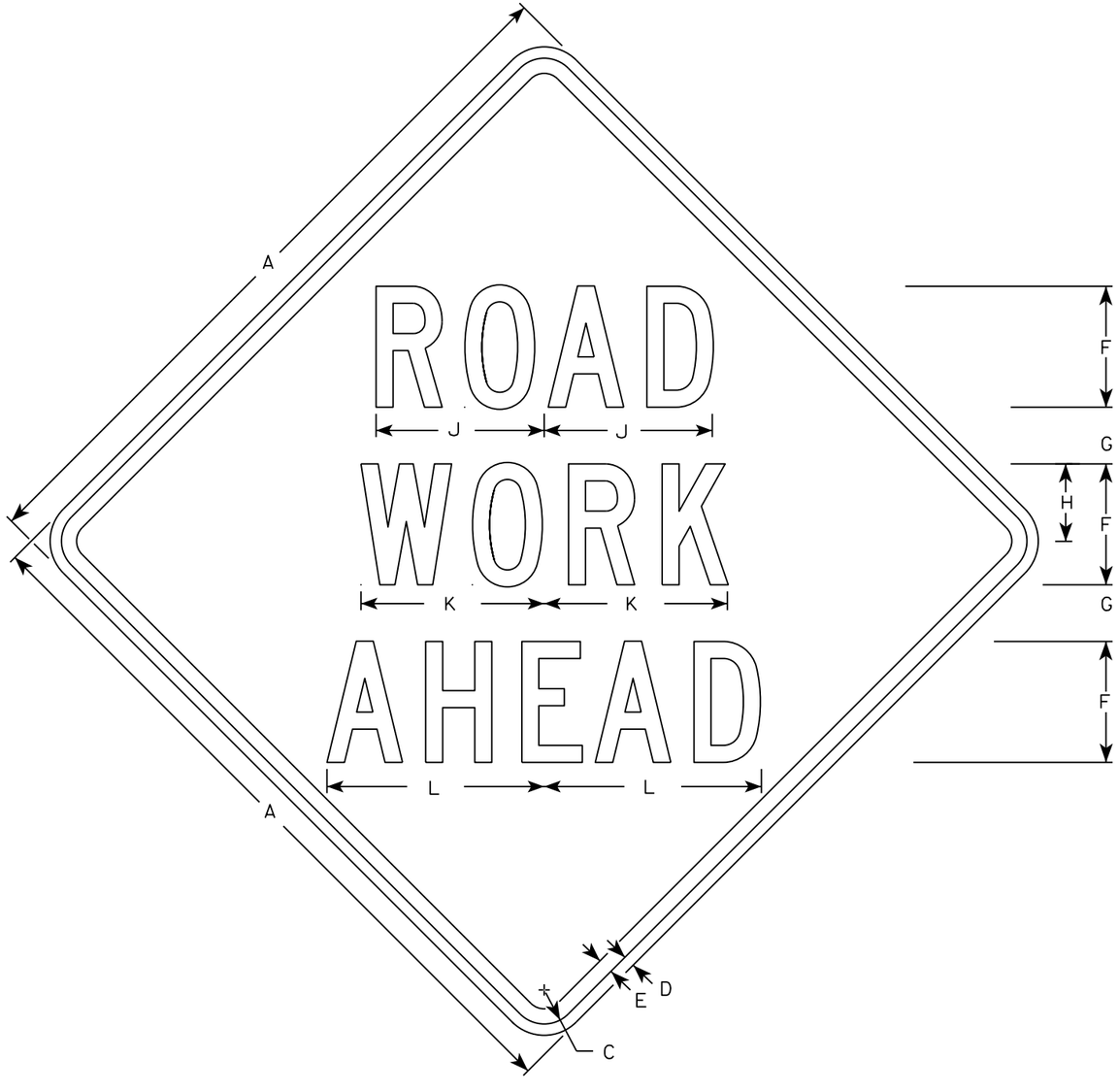
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

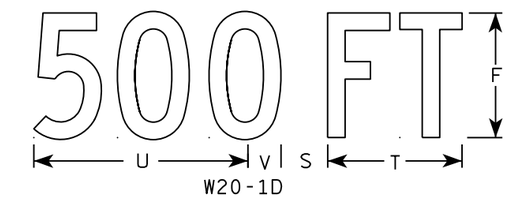
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

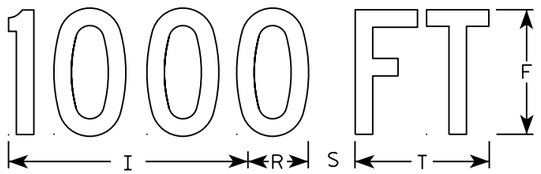
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 169	E



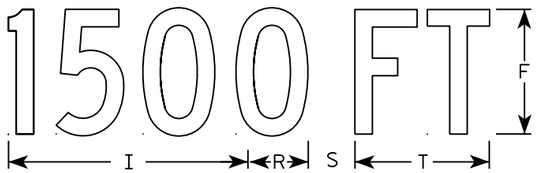
W20-1A



W20-1D

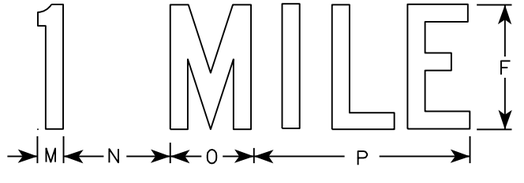


W20-1C

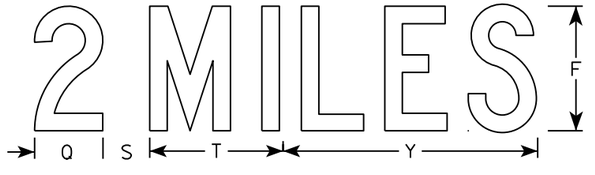


W20-1B

W20-1G



W20-1F



W20-1E

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.

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 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 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, F & G

WISCONSIN DEPT OF TRANSPORTATION

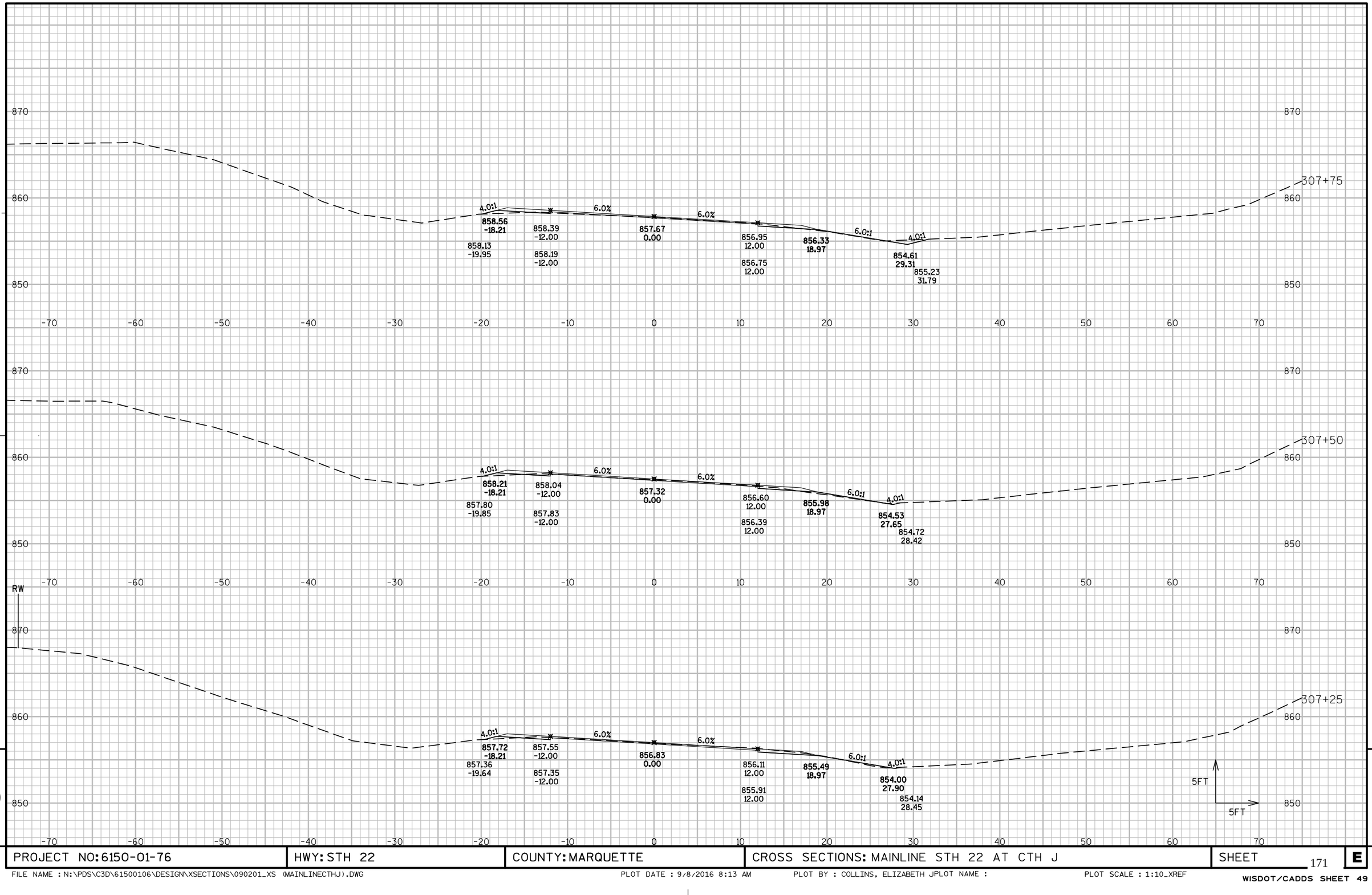
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

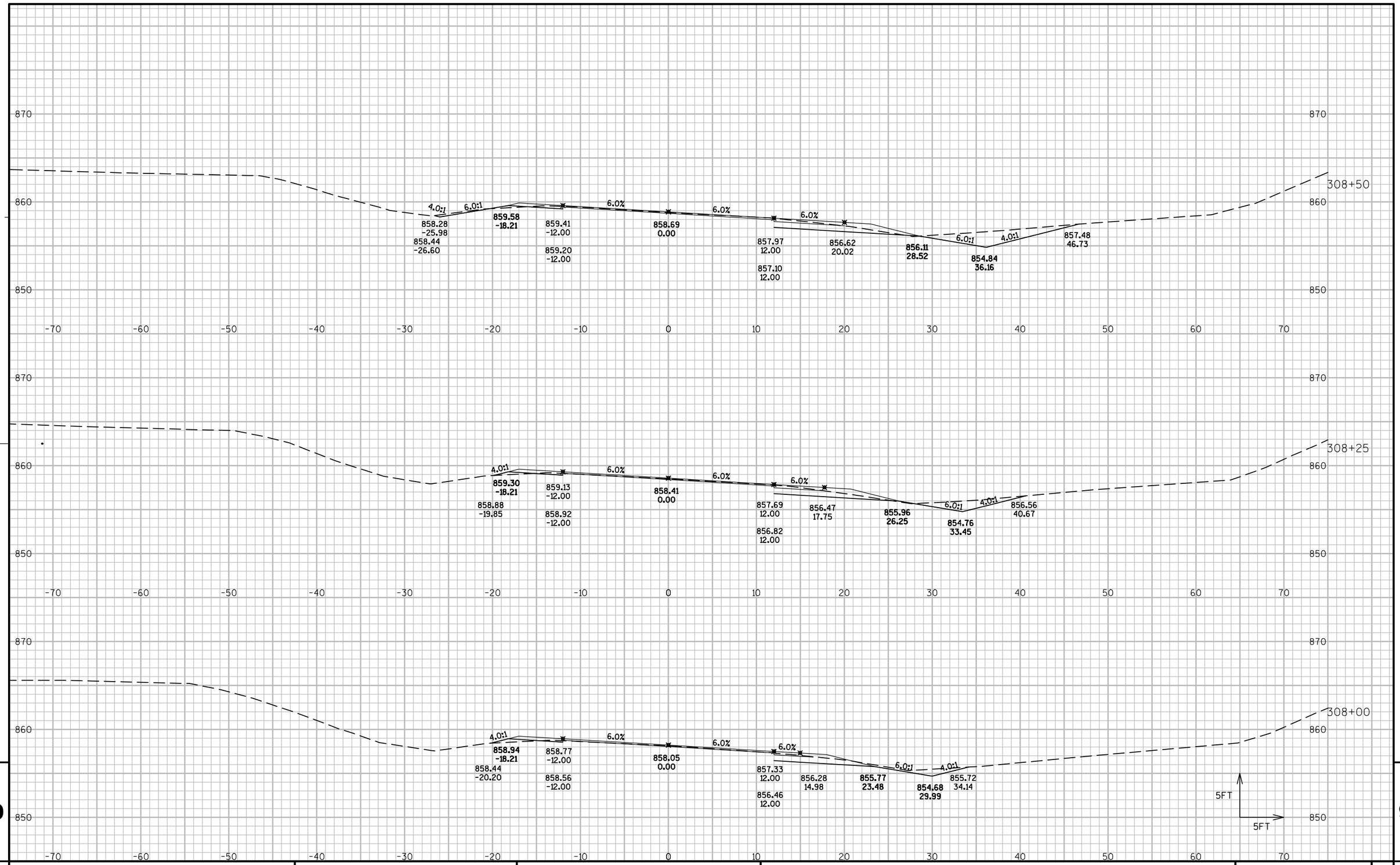
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



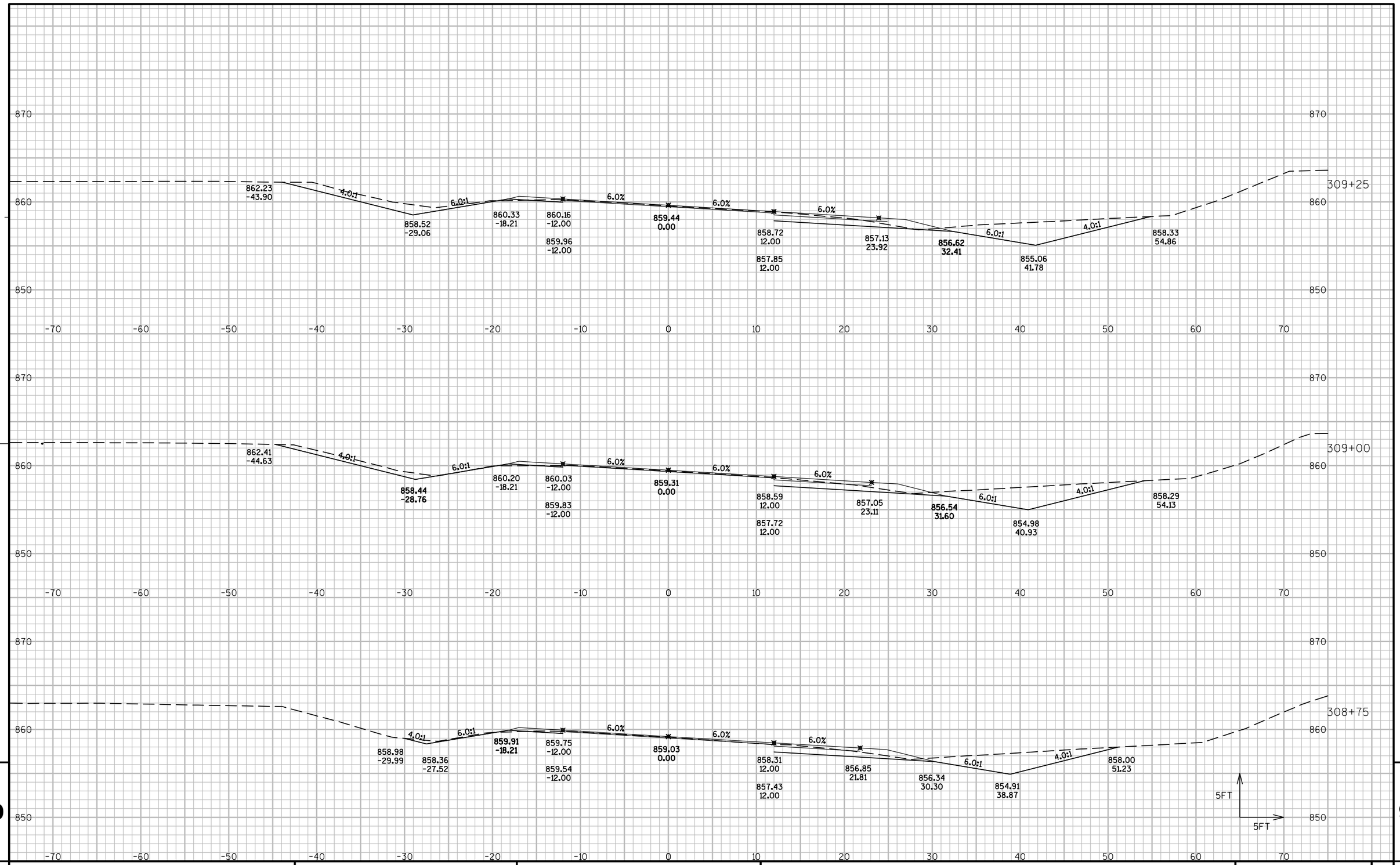
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 171	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090201_XS (MAINLINECTHJ).DWG PLOT DATE : 9/8/2016 8:13 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



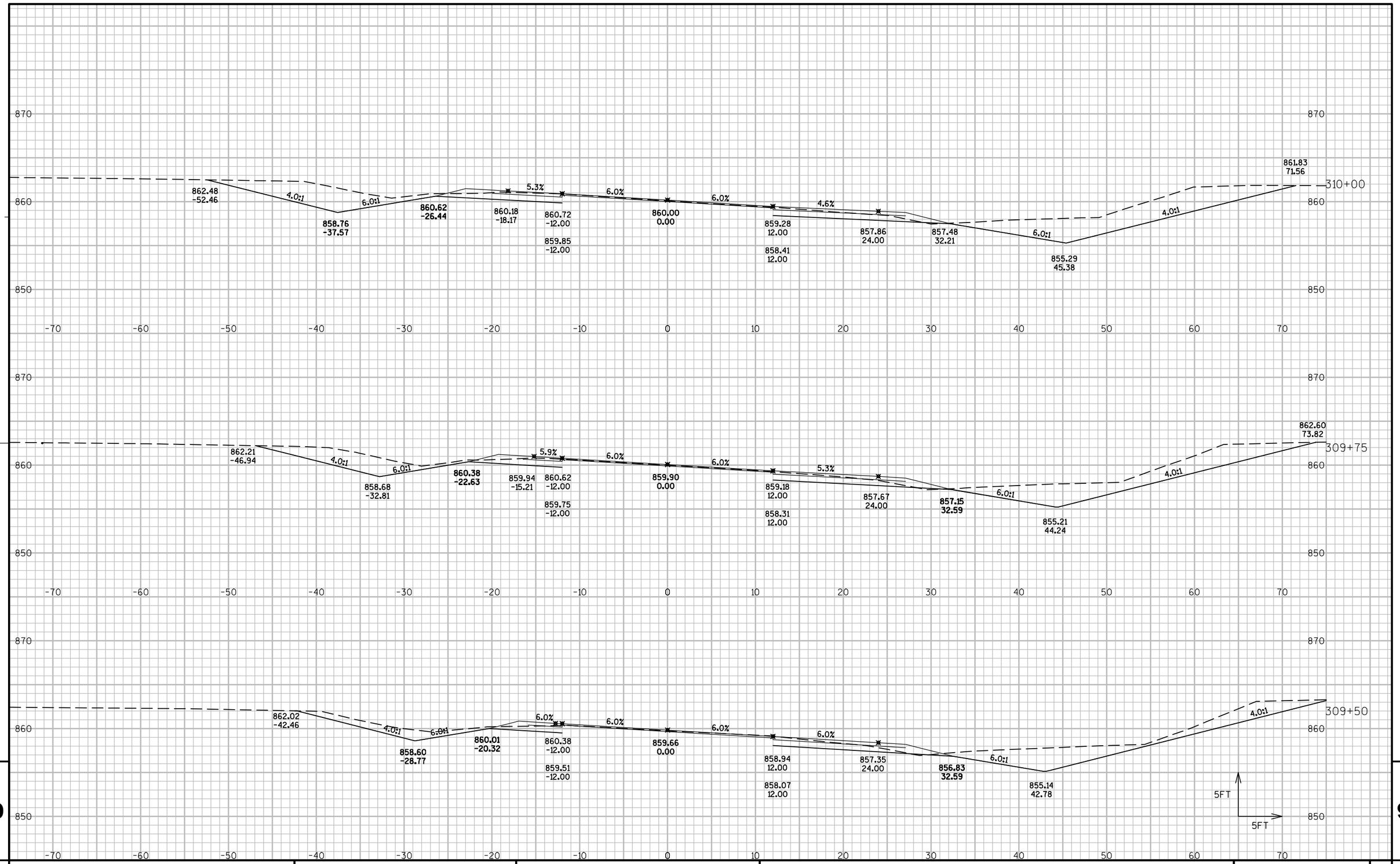
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 172	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090201_XS (MAINLINECTHJ).DWG PLOT DATE : 9/8/2016 8:13 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 173 E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090201_XS (MAINLINECTHJ).DWG PLOT DATE : 9/8/2016 8:13 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

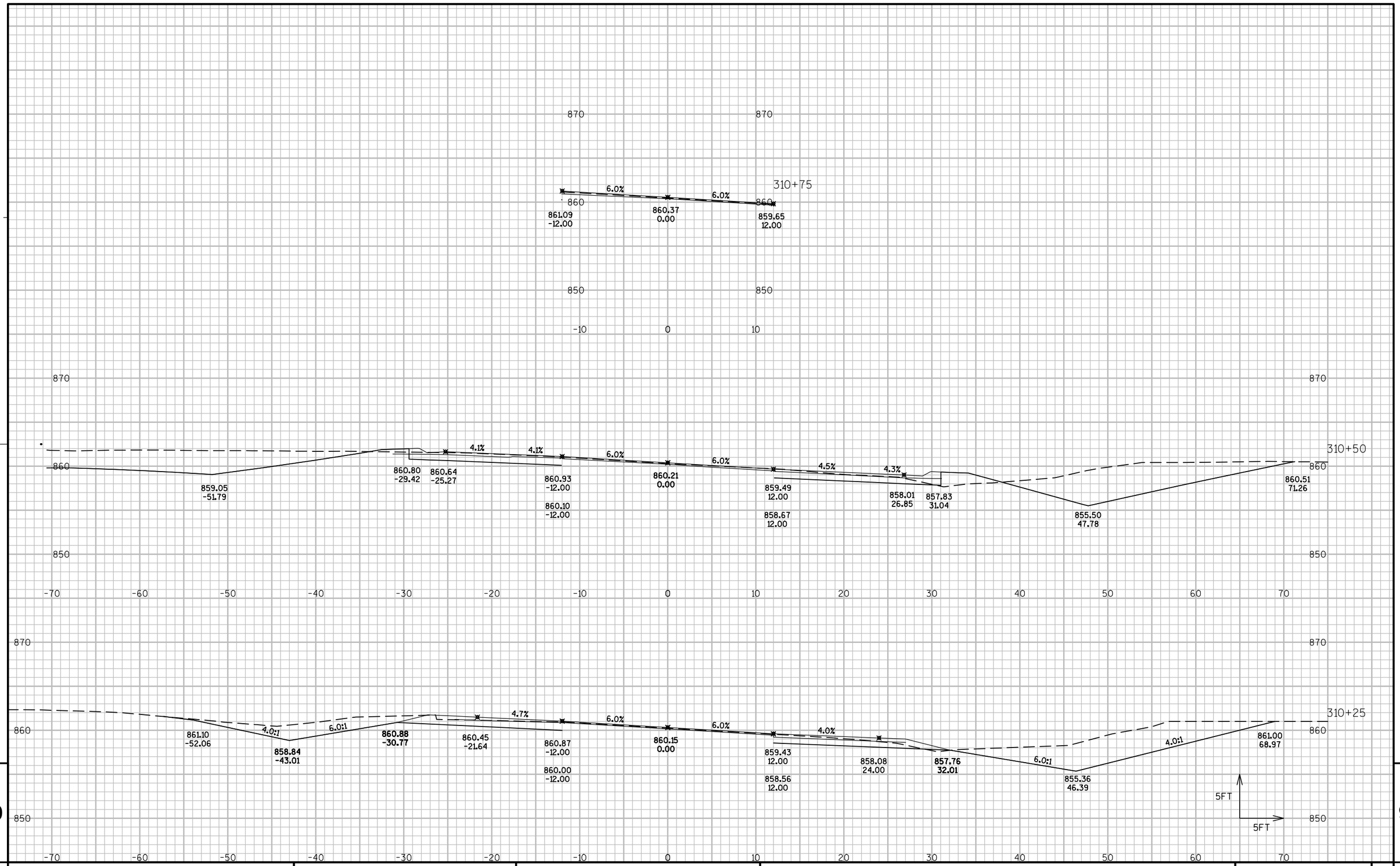


9

9

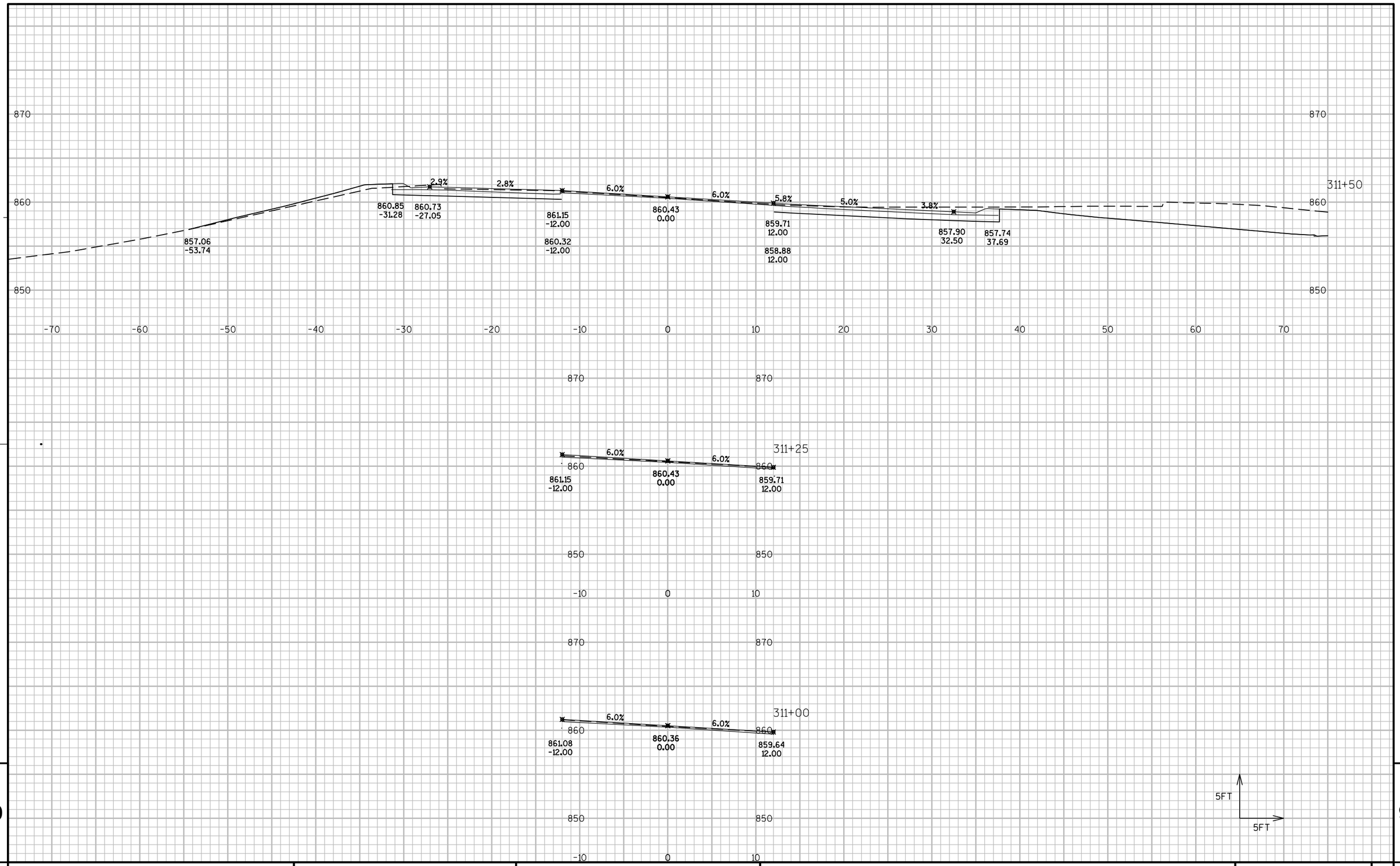
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 174	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090201_XS (MAINLINECTHJ).DWG PLOT DATE : 9/8/2016 8:13 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 175 E

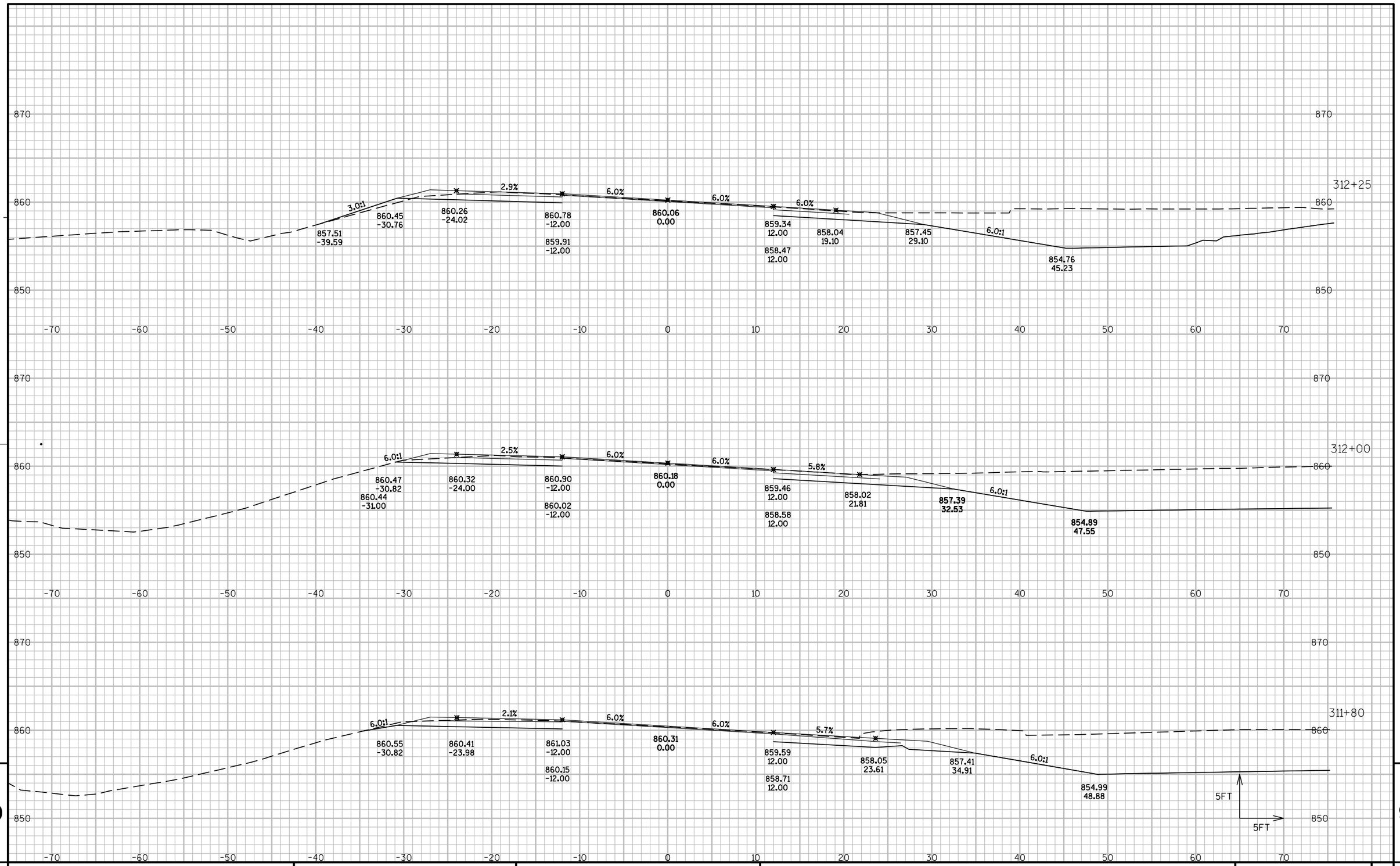
FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090201_XS (MAINLINECTHJ).DWG PLOT DATE : 9/8/2016 8:13 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



9

9

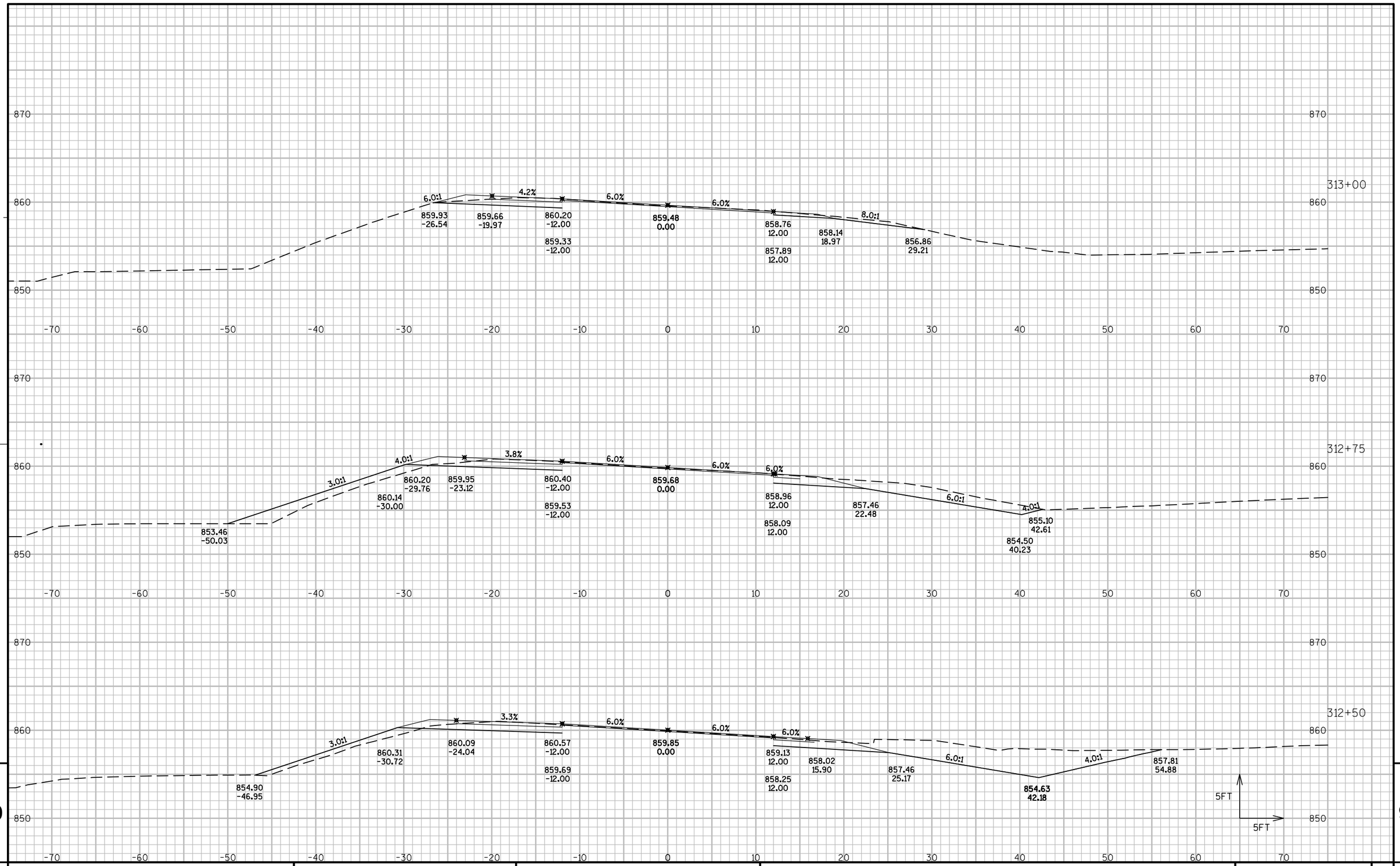
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 176	E



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 177 E

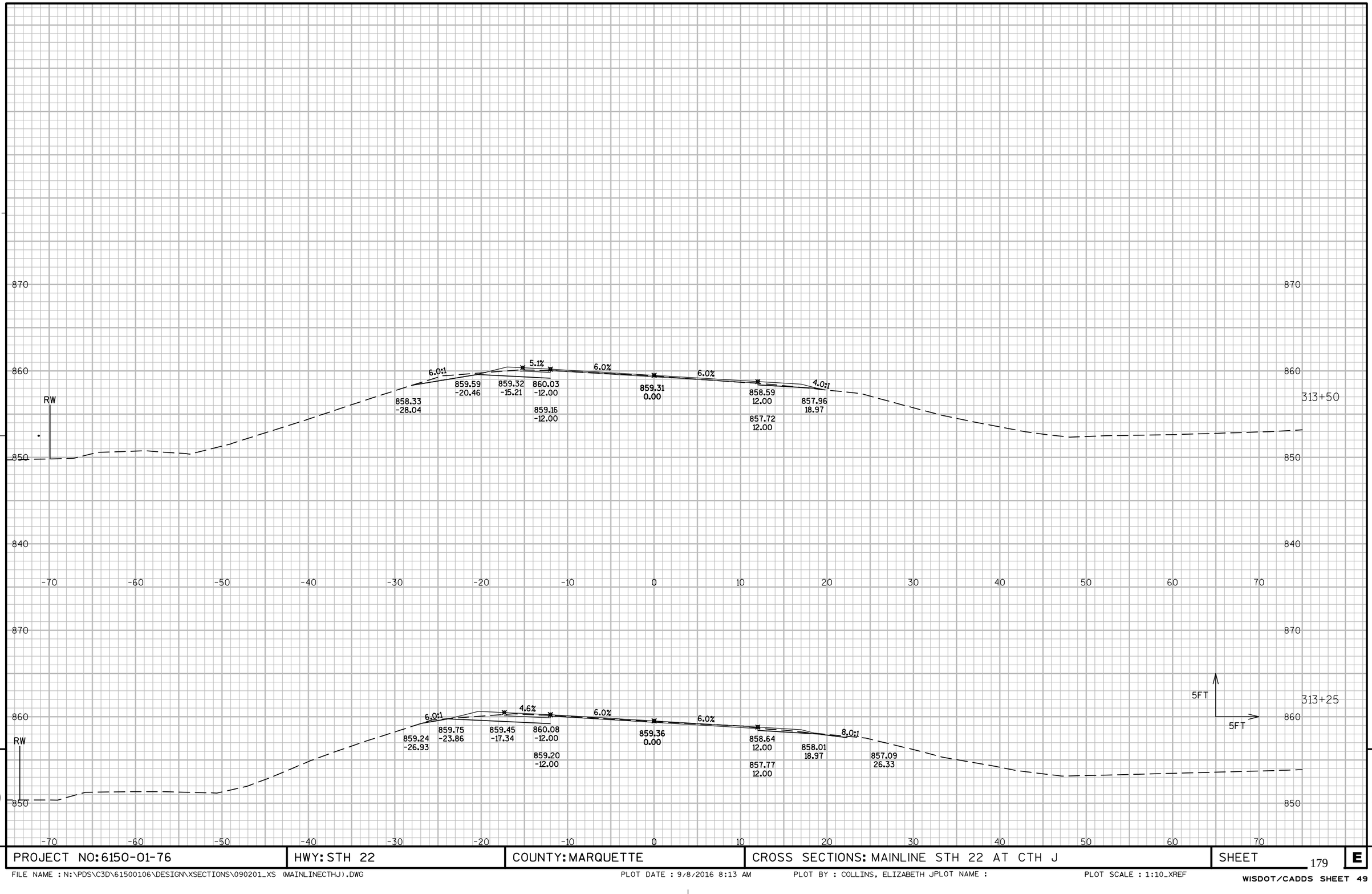
FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090201_XS (MAINLINECTHJ).DWG PLOT DATE : 9/8/2016 8:13 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 178	E

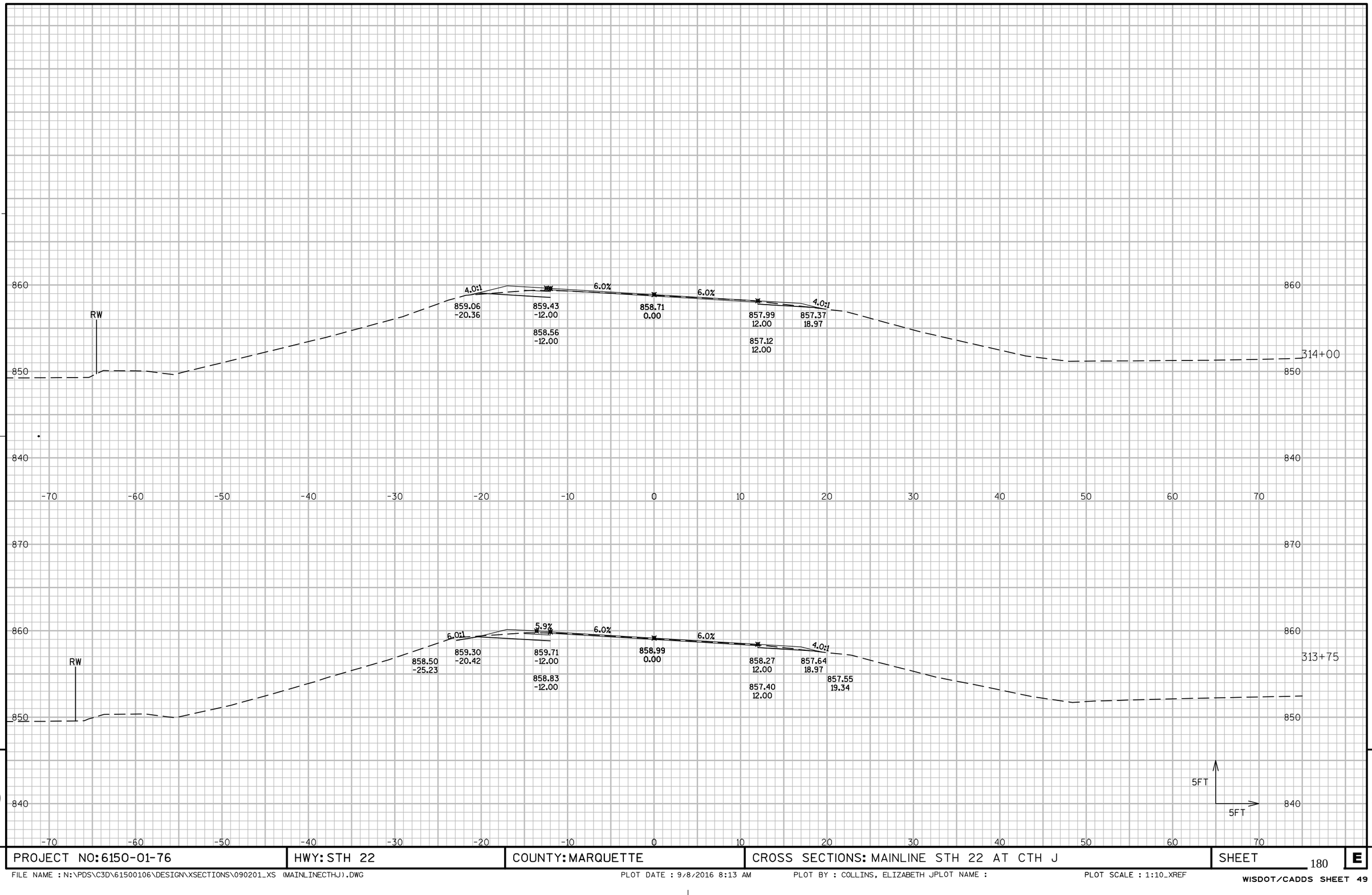
FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090201_XS (MAINLINECTHJ).DWG PLOT DATE : 9/8/2016 8:13 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 179	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090201_XS (MAINLINECTHJ).DWG PLOT DATE : 9/8/2016 8:13 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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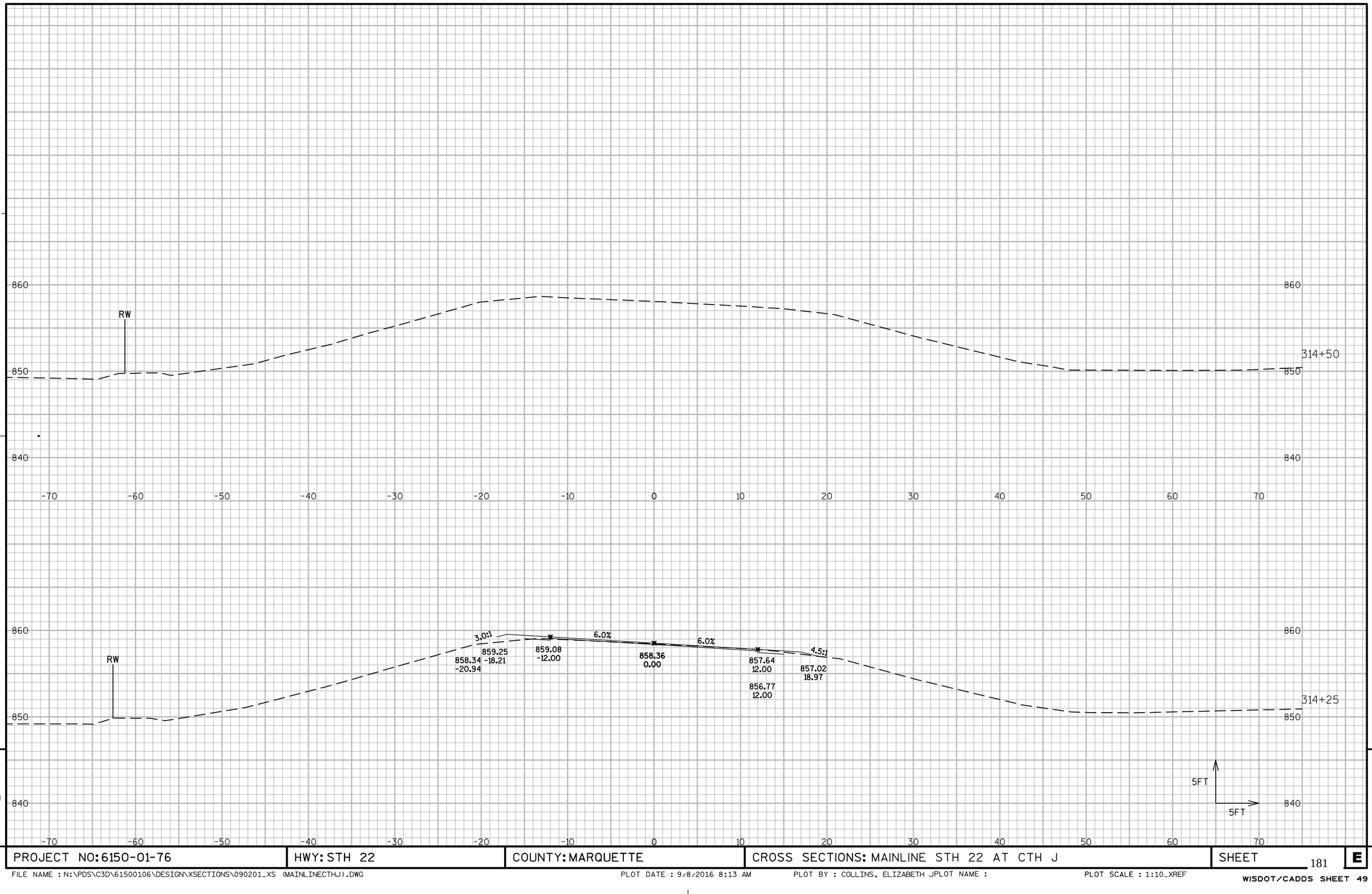
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 180	E



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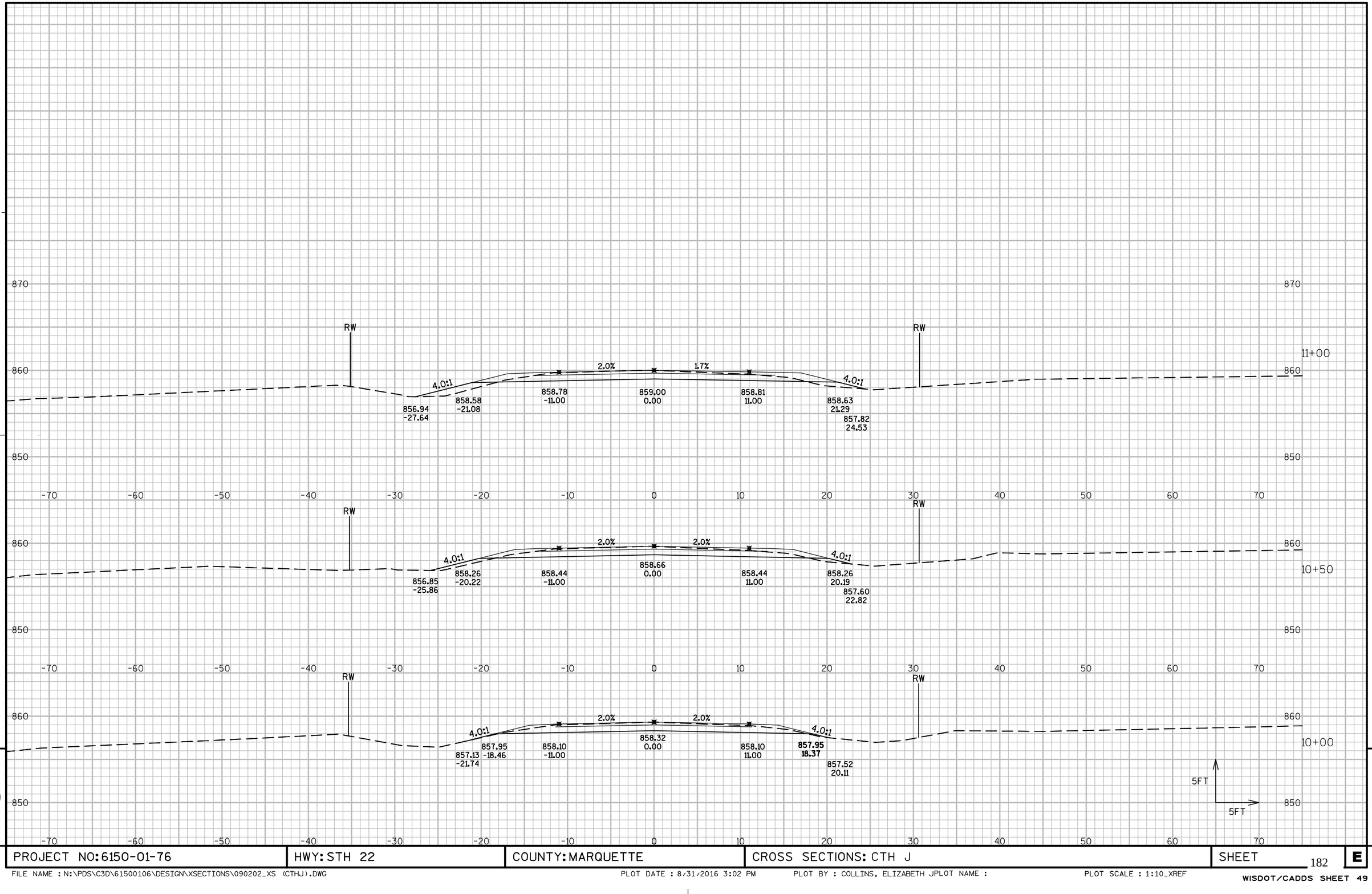
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: MAINLINE STH 22 AT CTH J	SHEET 181	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090201_XS (MAINLINECTHJ).DWG PLOT DATE : 9/8/2016 8:13 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

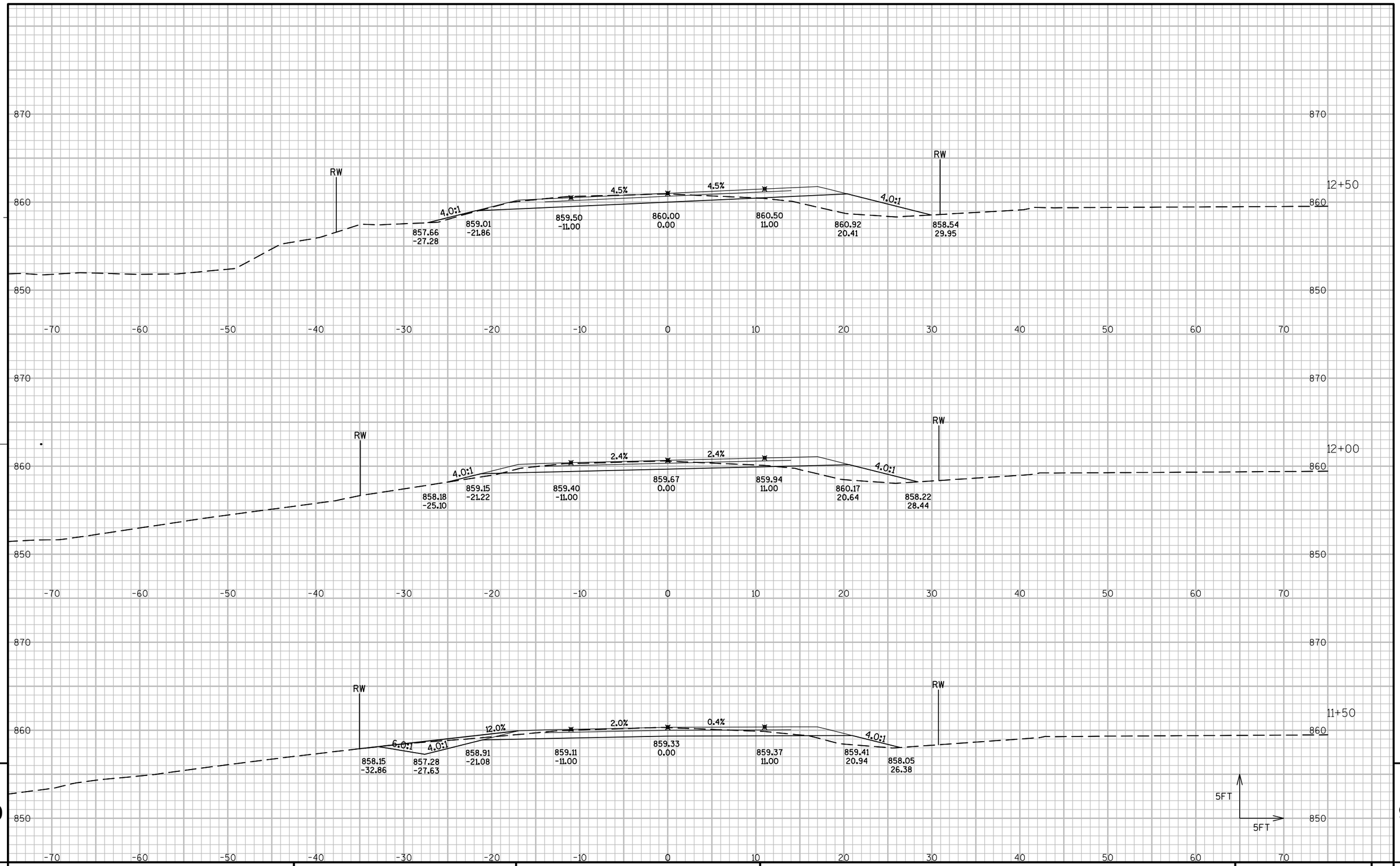
WISDOT/CADDS SHEET 49



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 182	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:02 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

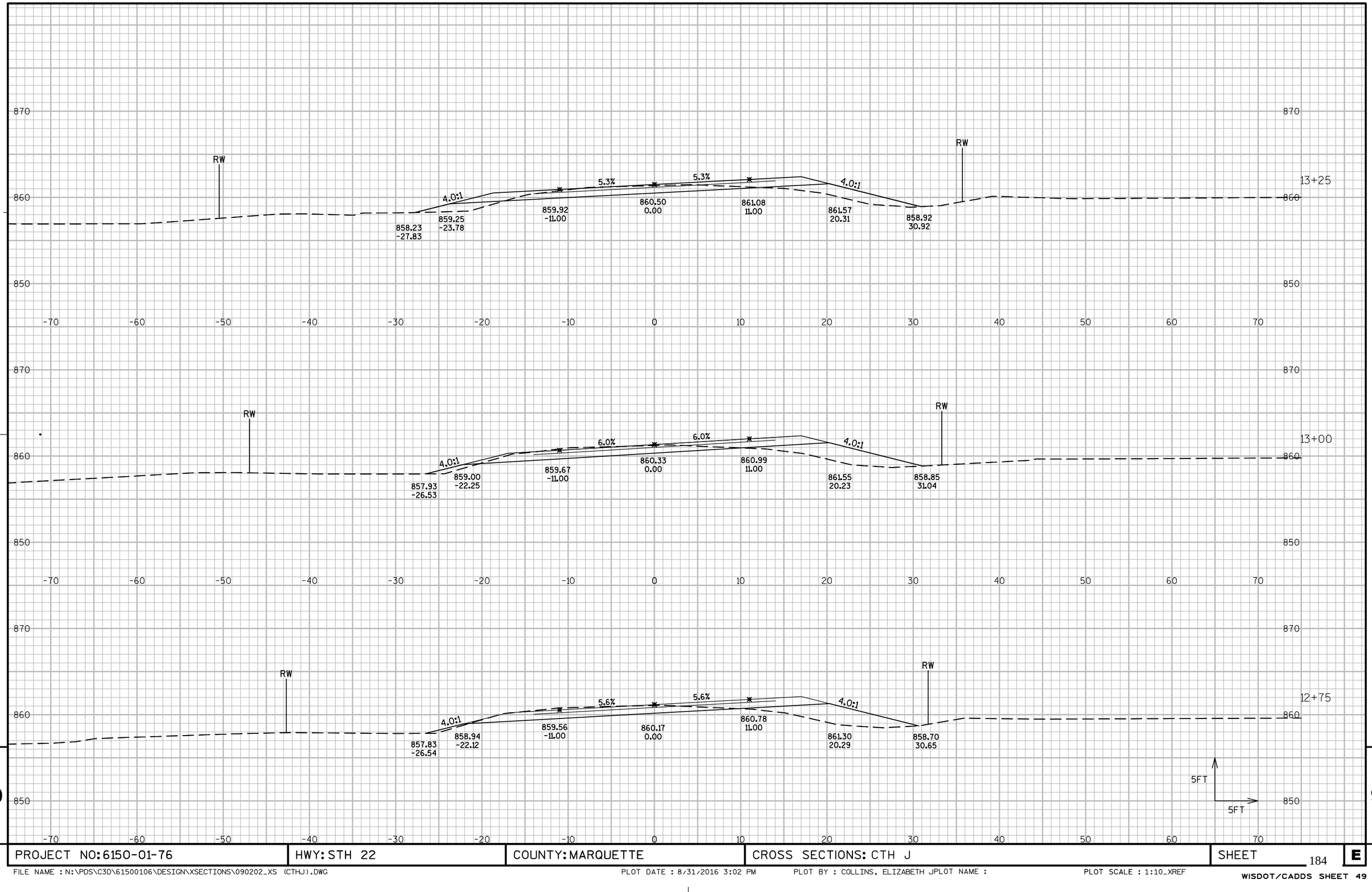
WISDOT/CADDS SHEET 49



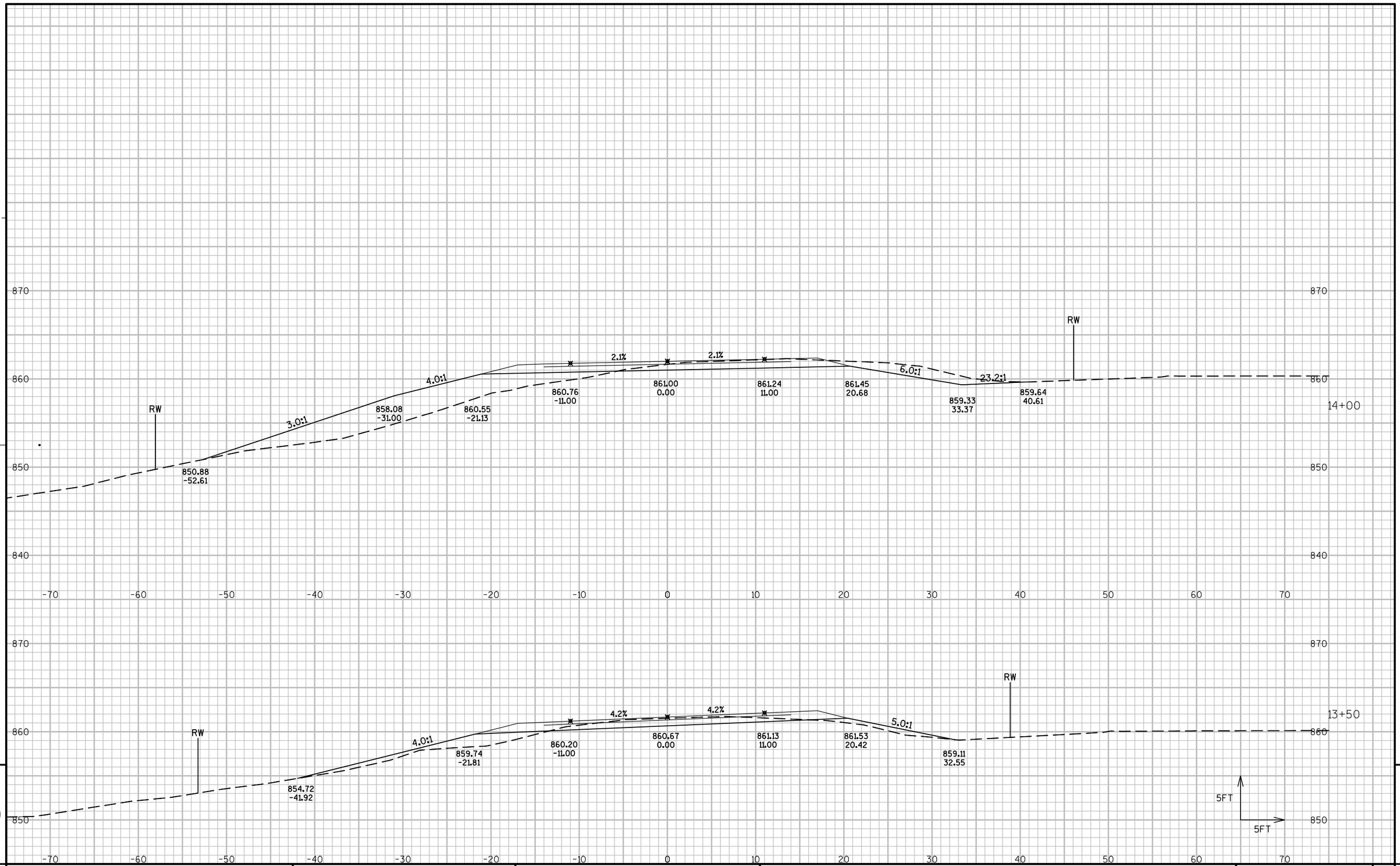
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 183	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:02 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



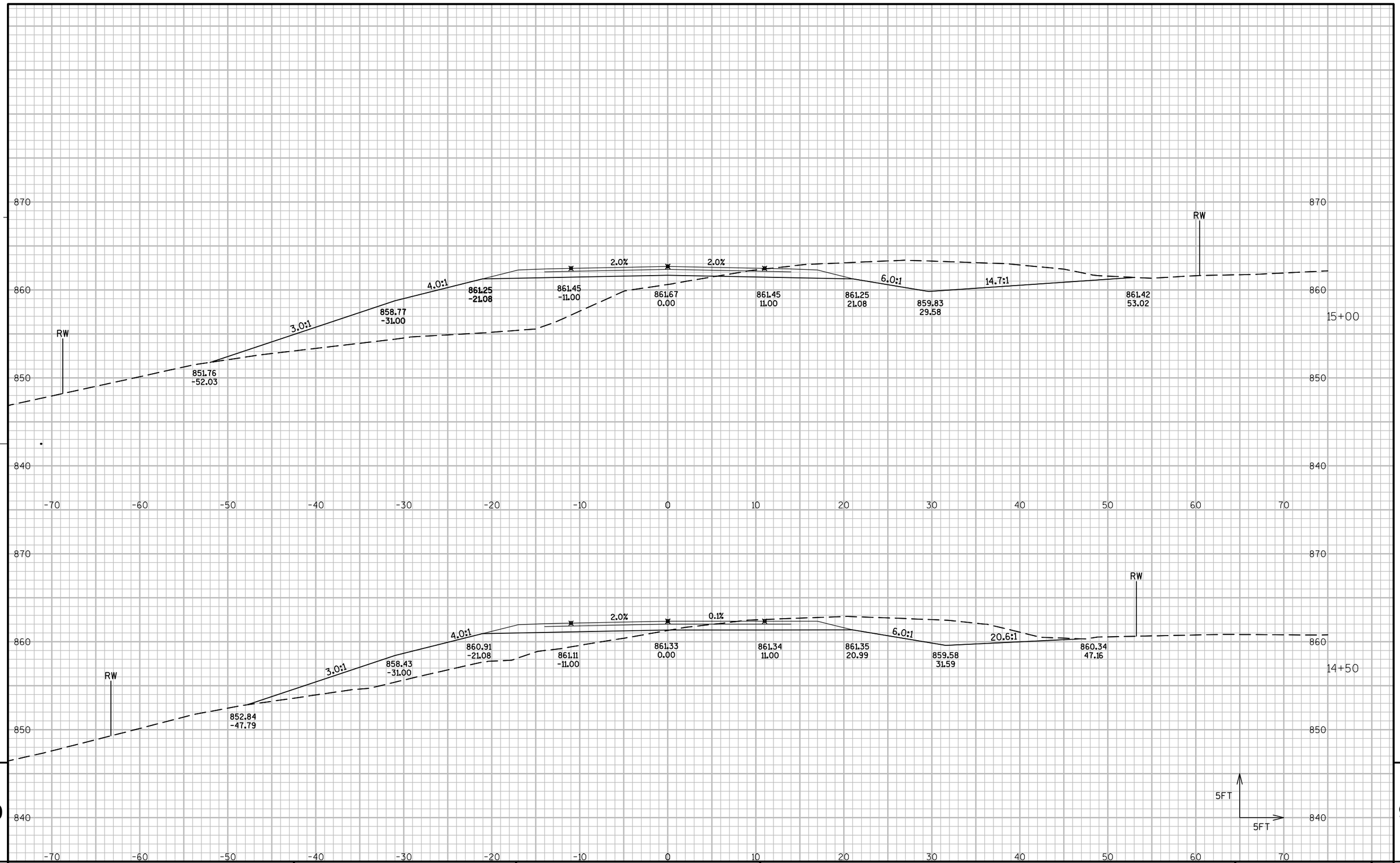
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 184	E



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 185	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:02 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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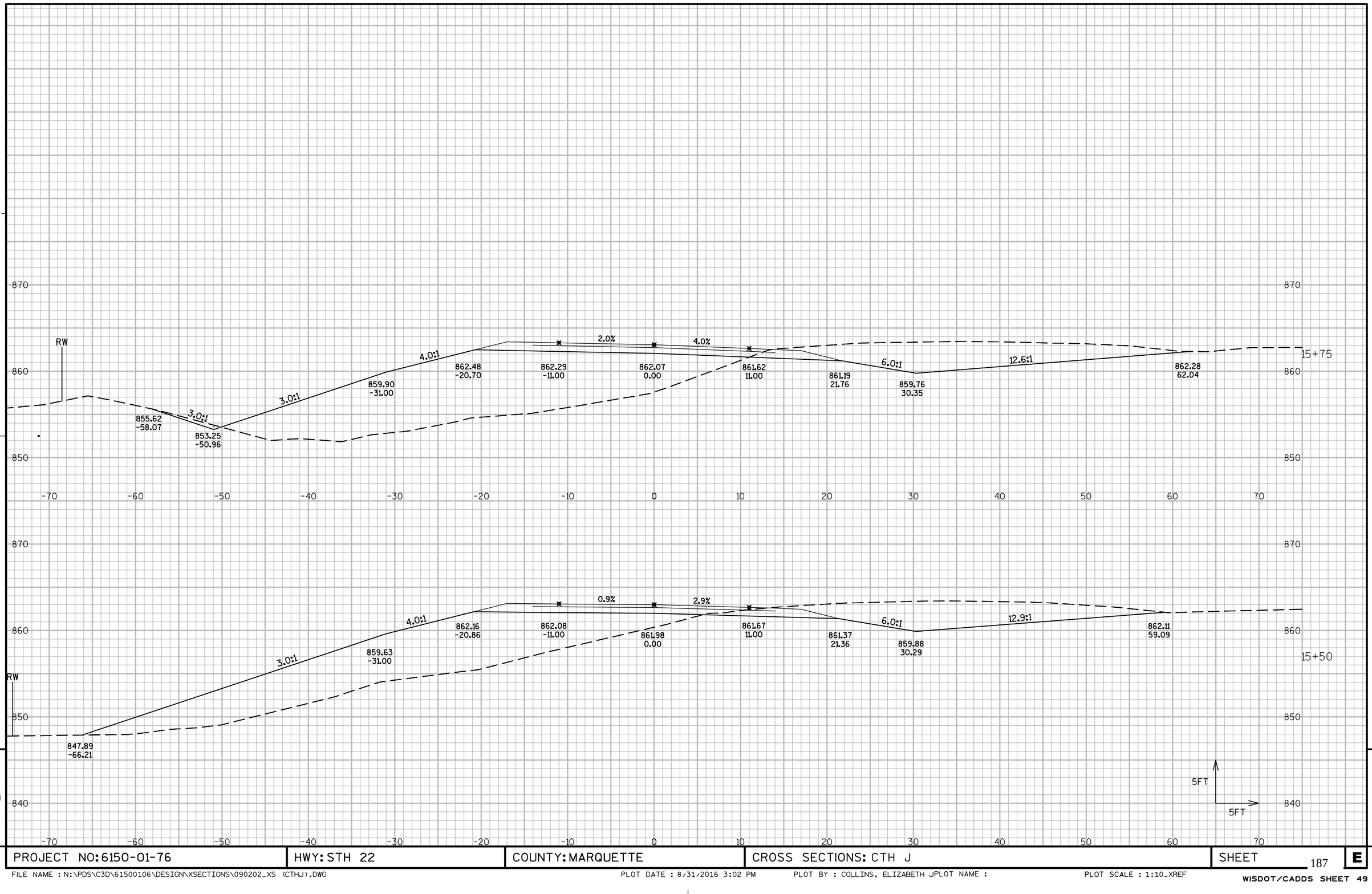
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 186	E

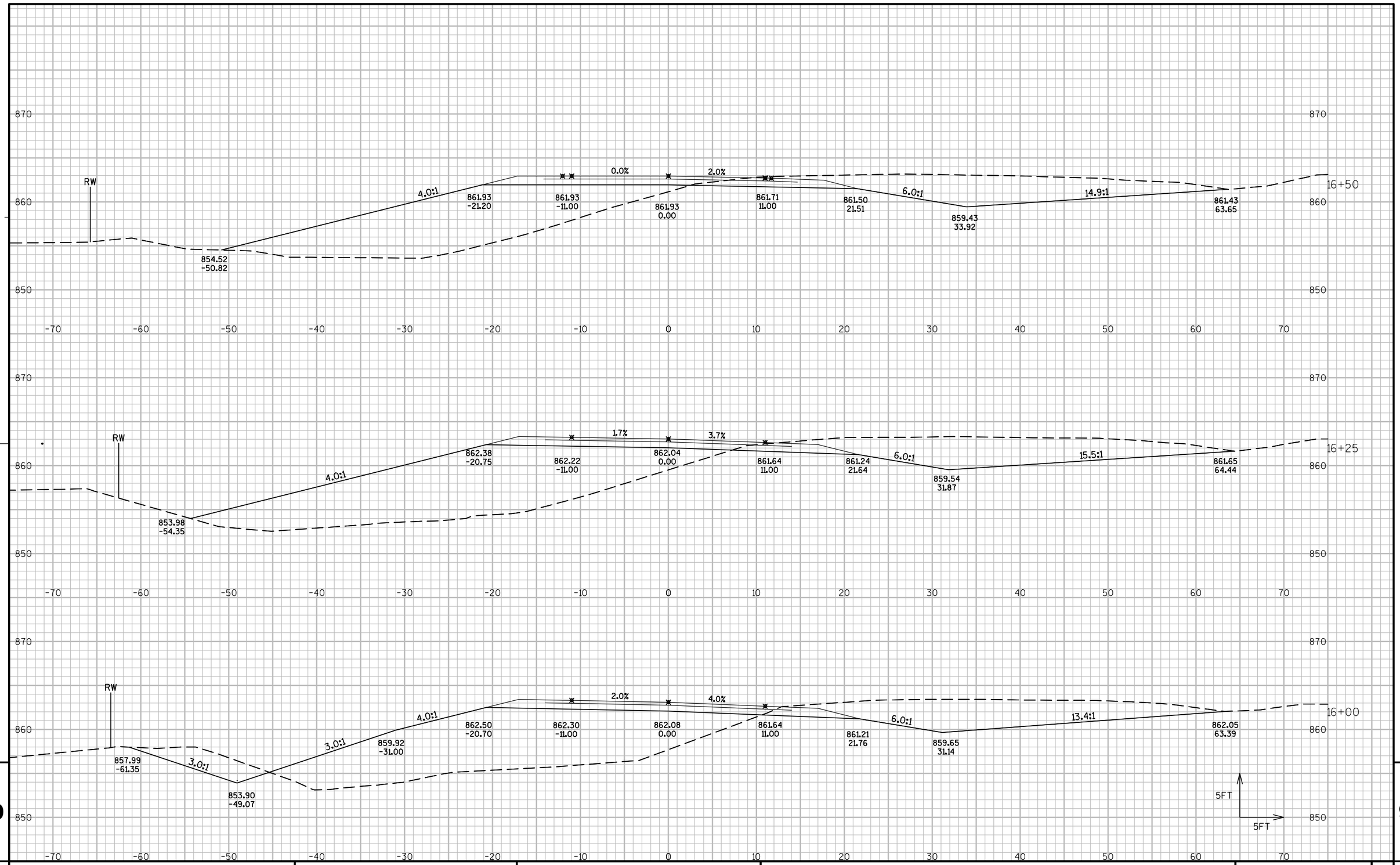
FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:02 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 187	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:02 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

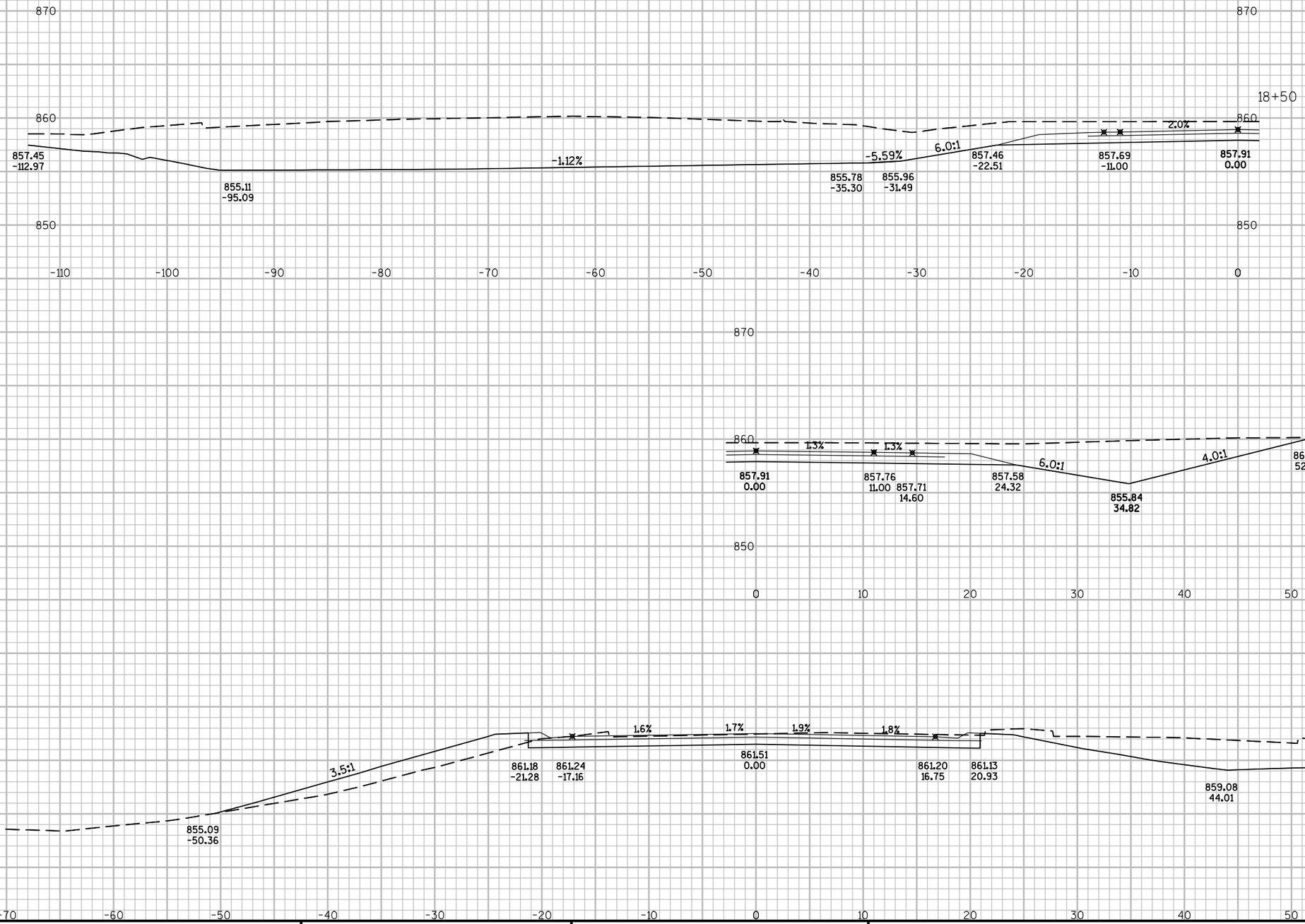
WISDOT/CADDS SHEET 49



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 188	E

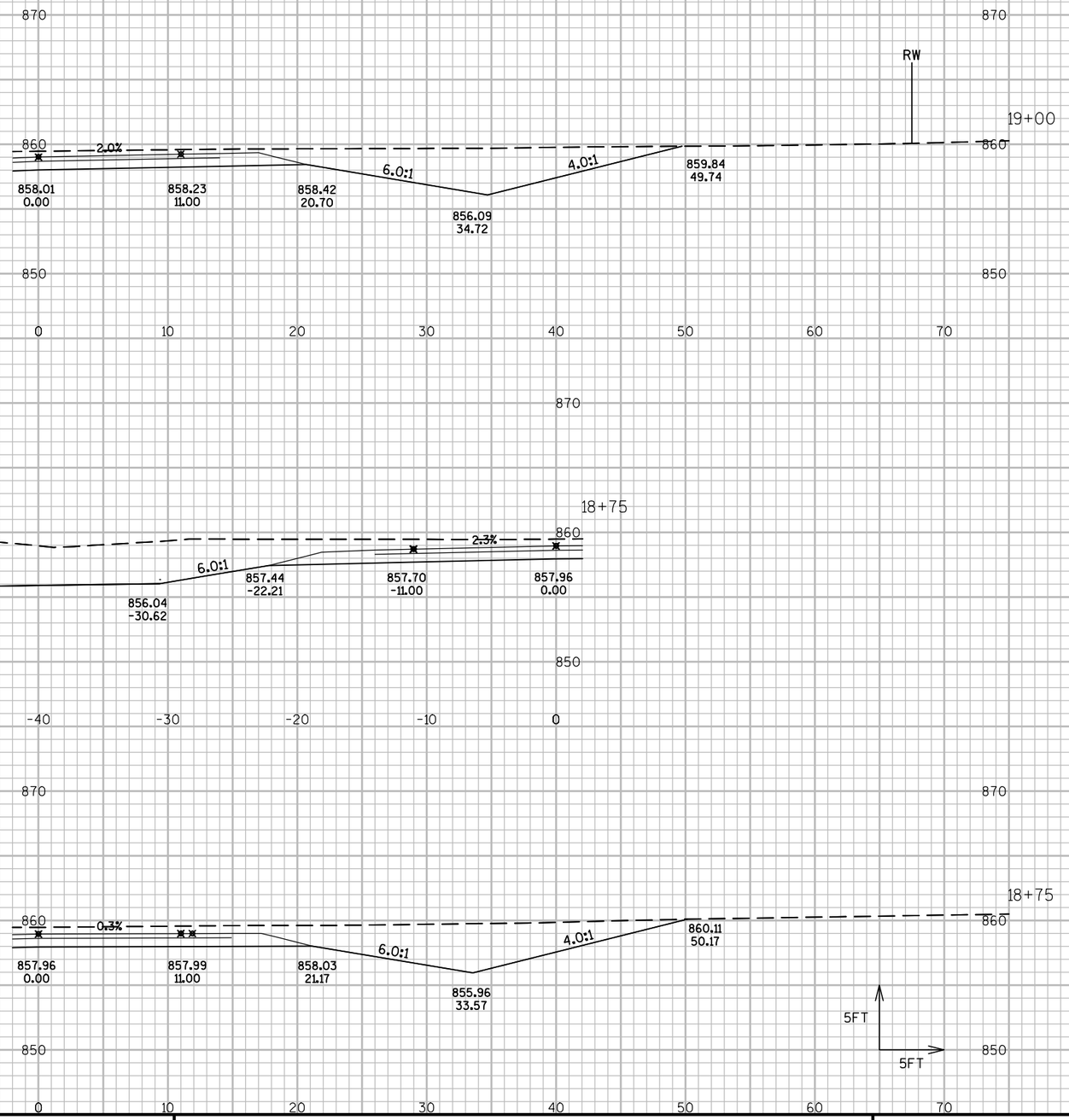
FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:02 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 189	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:03 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



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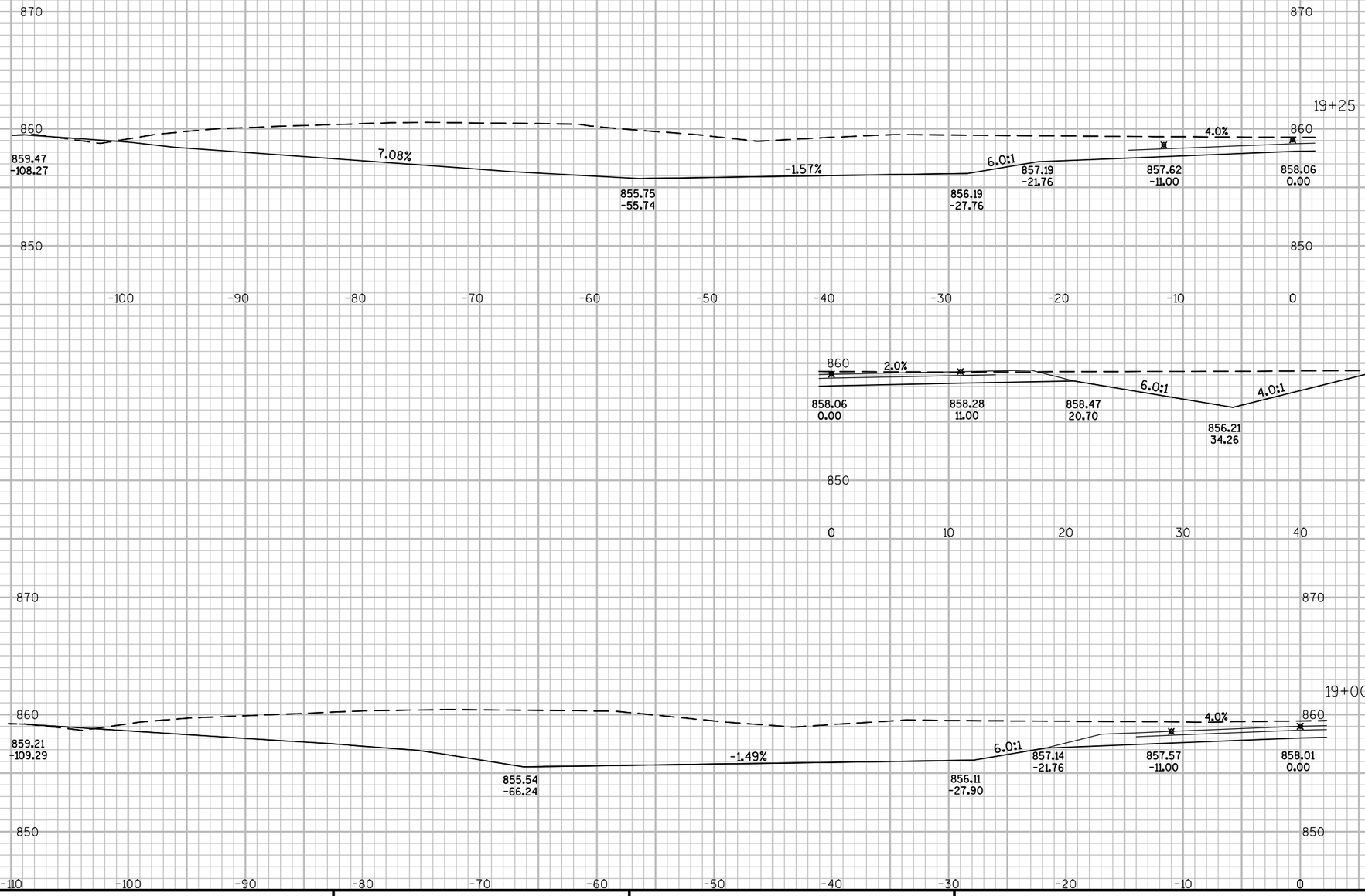
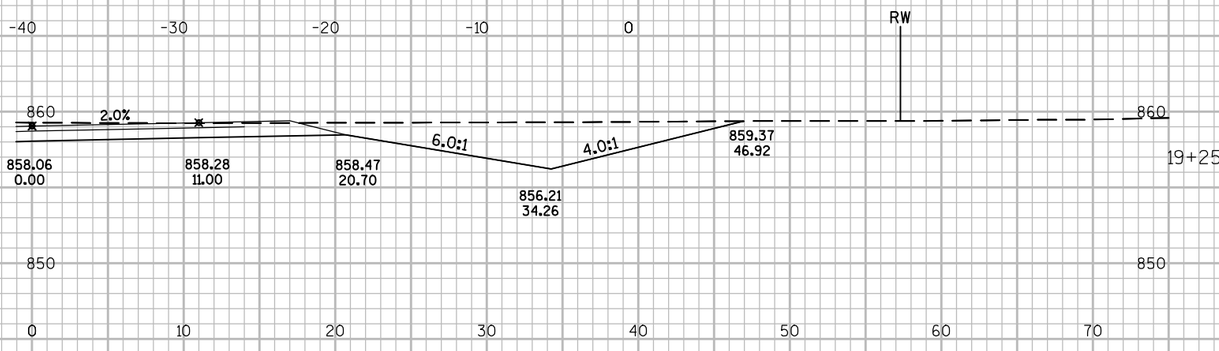
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 190	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:03 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

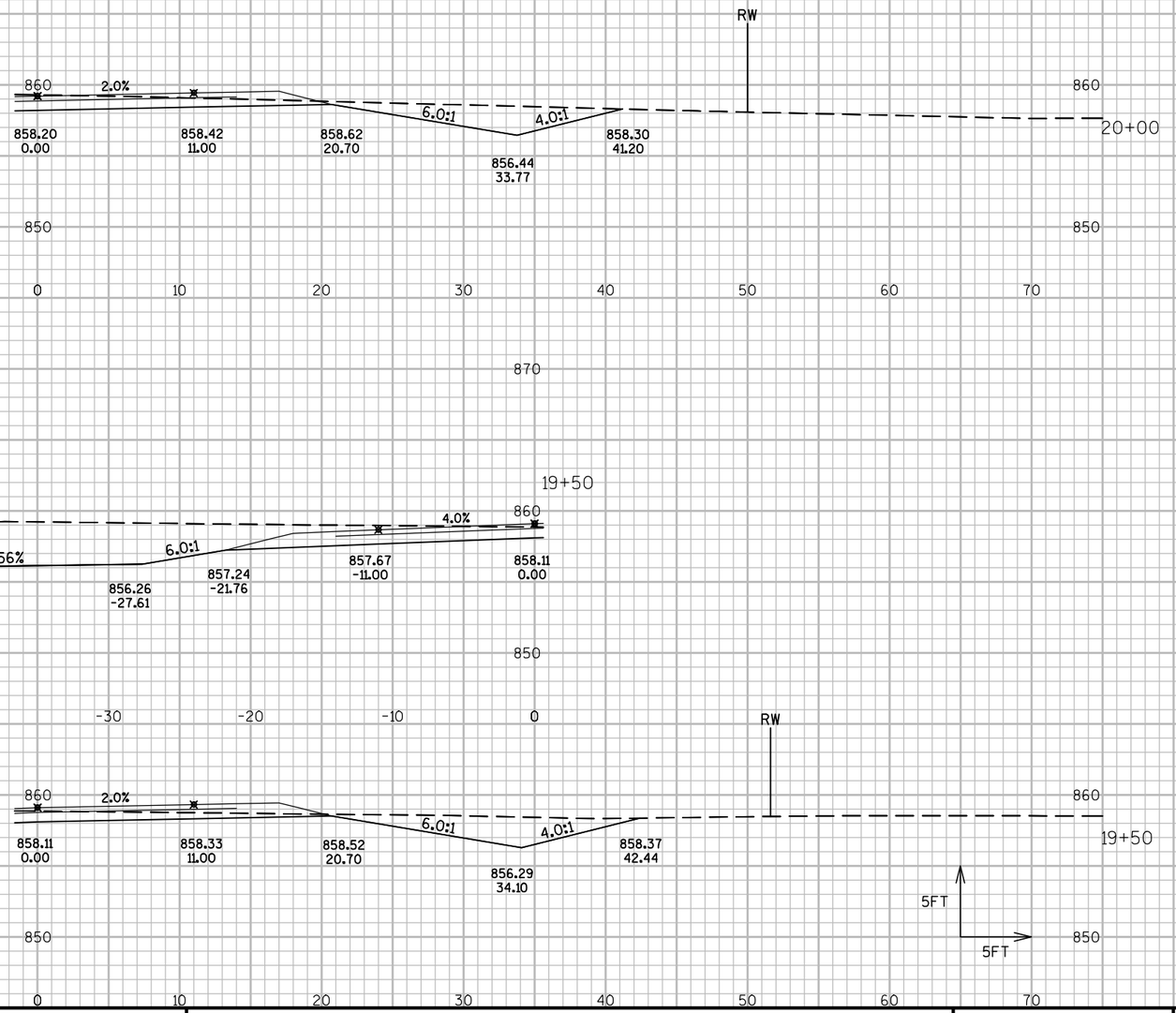




PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 191	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:03 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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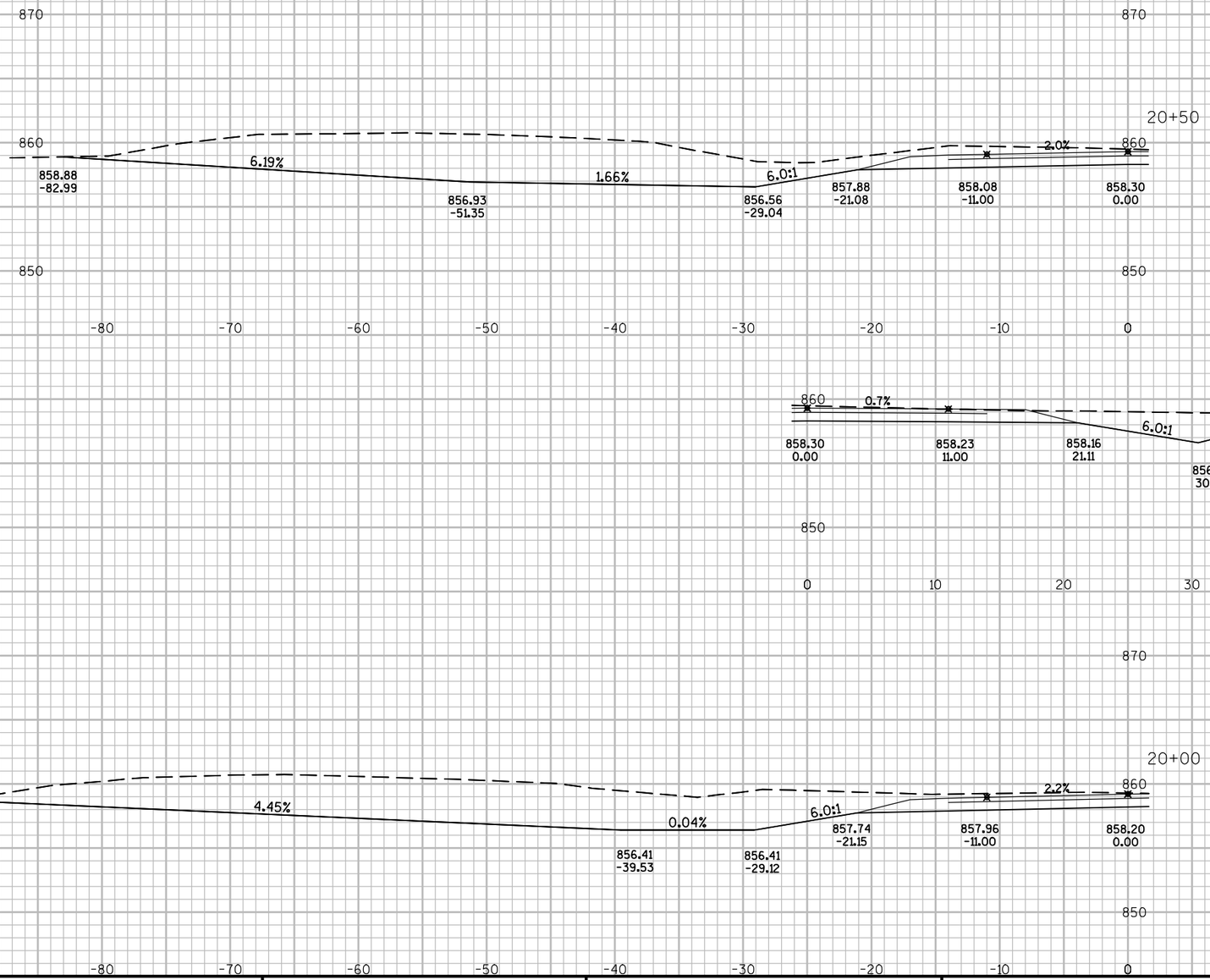
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 192	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:03 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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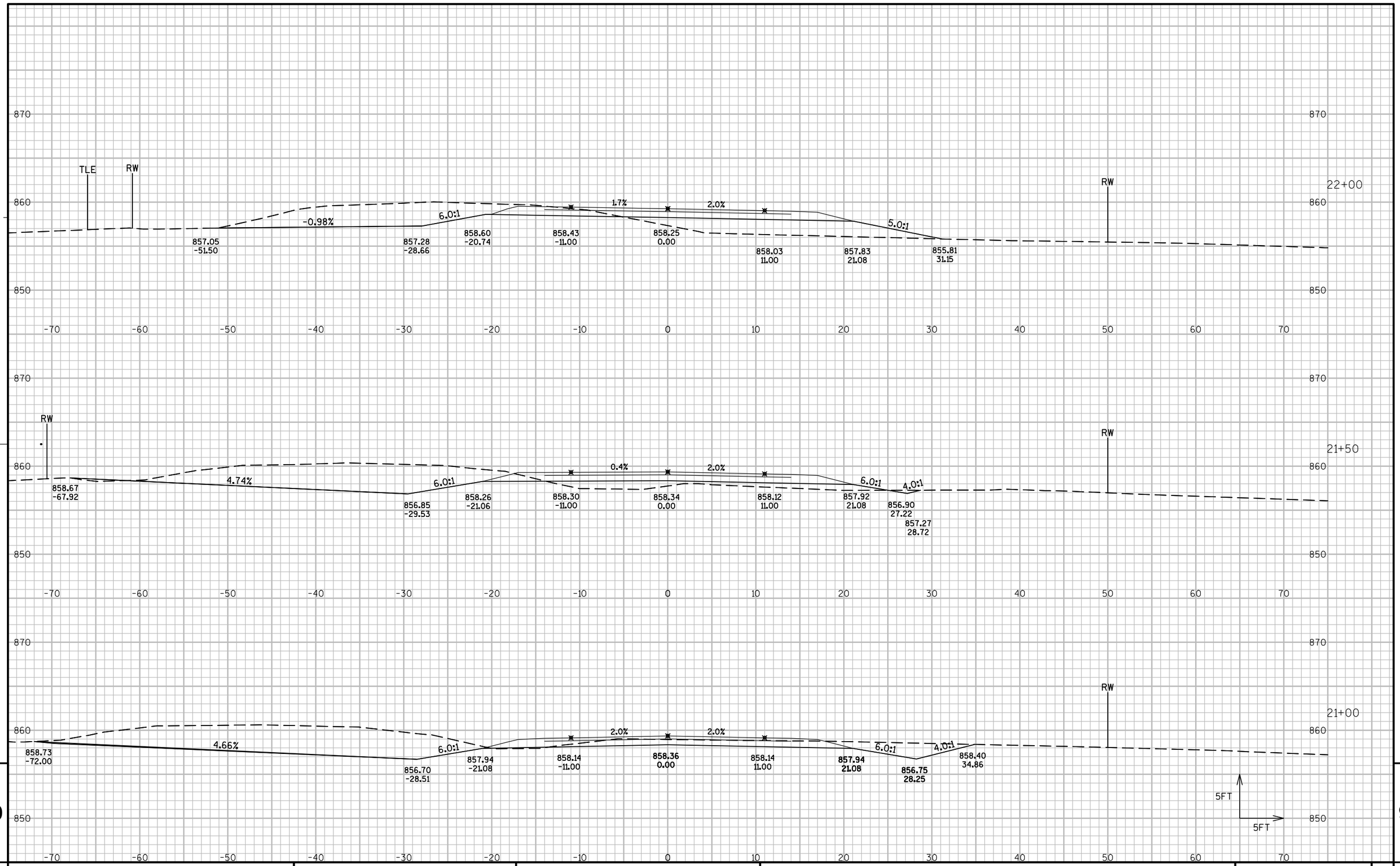
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 193	E

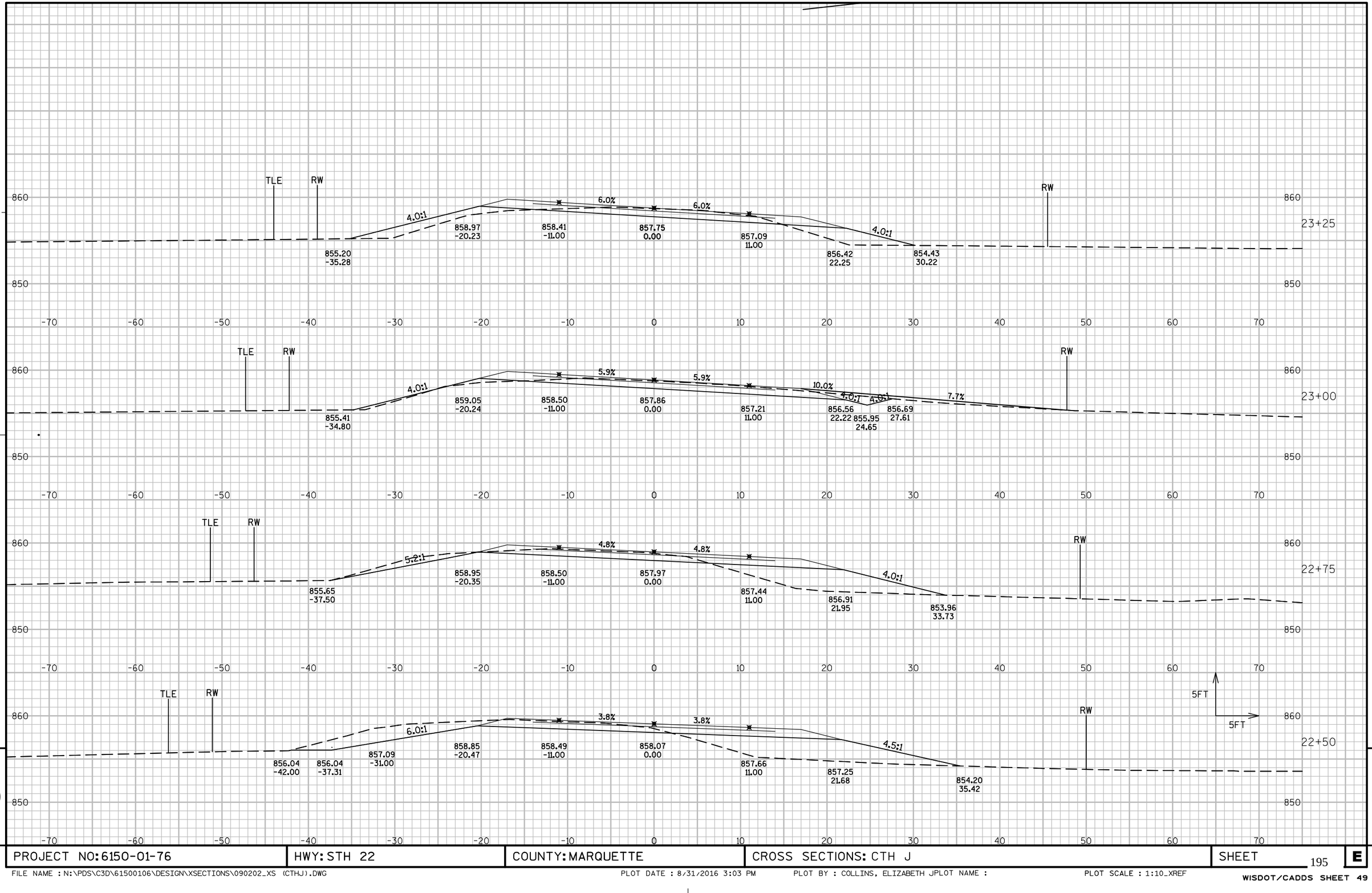
FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:03 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 194 E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:03 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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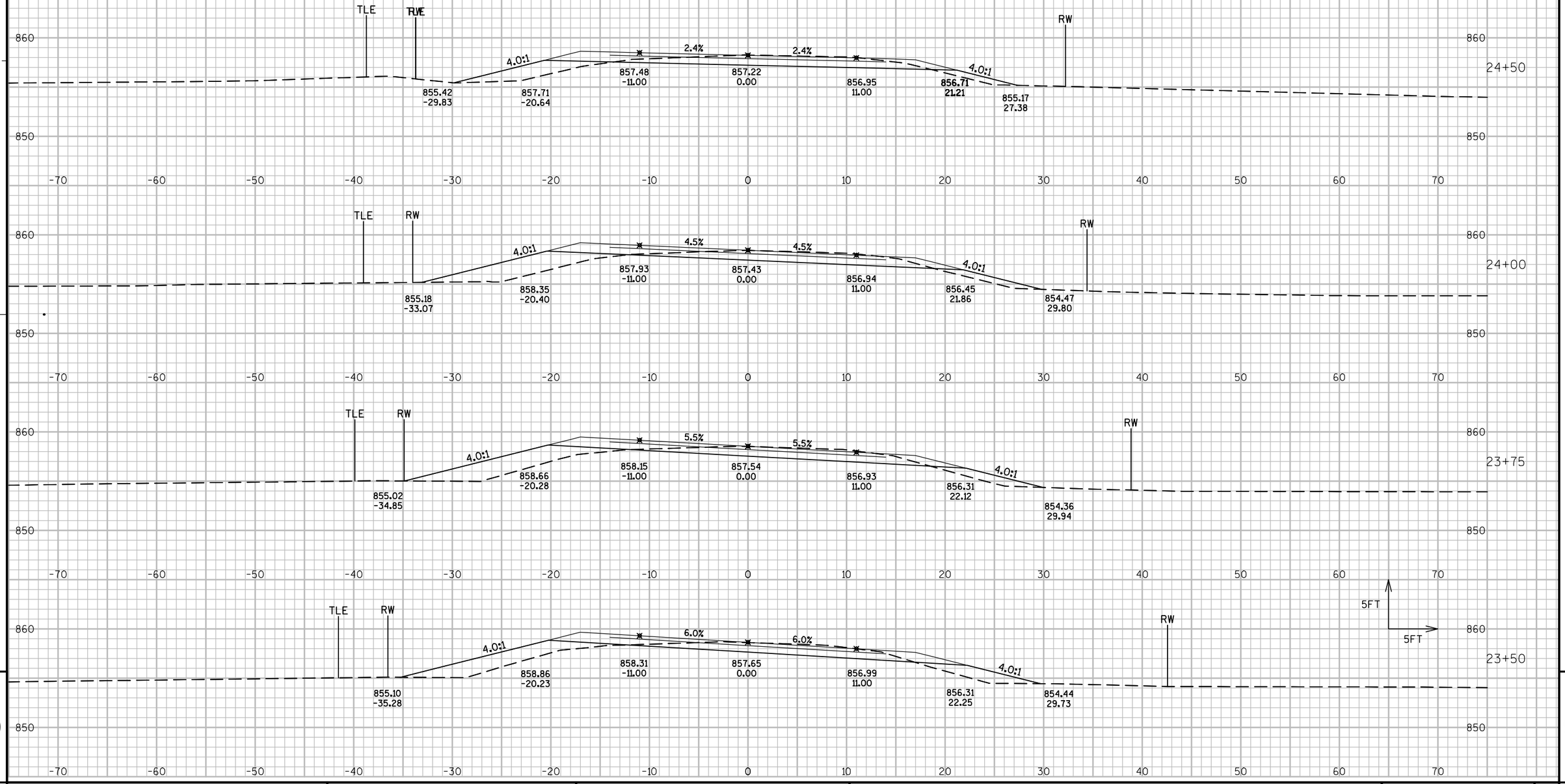
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 195	E

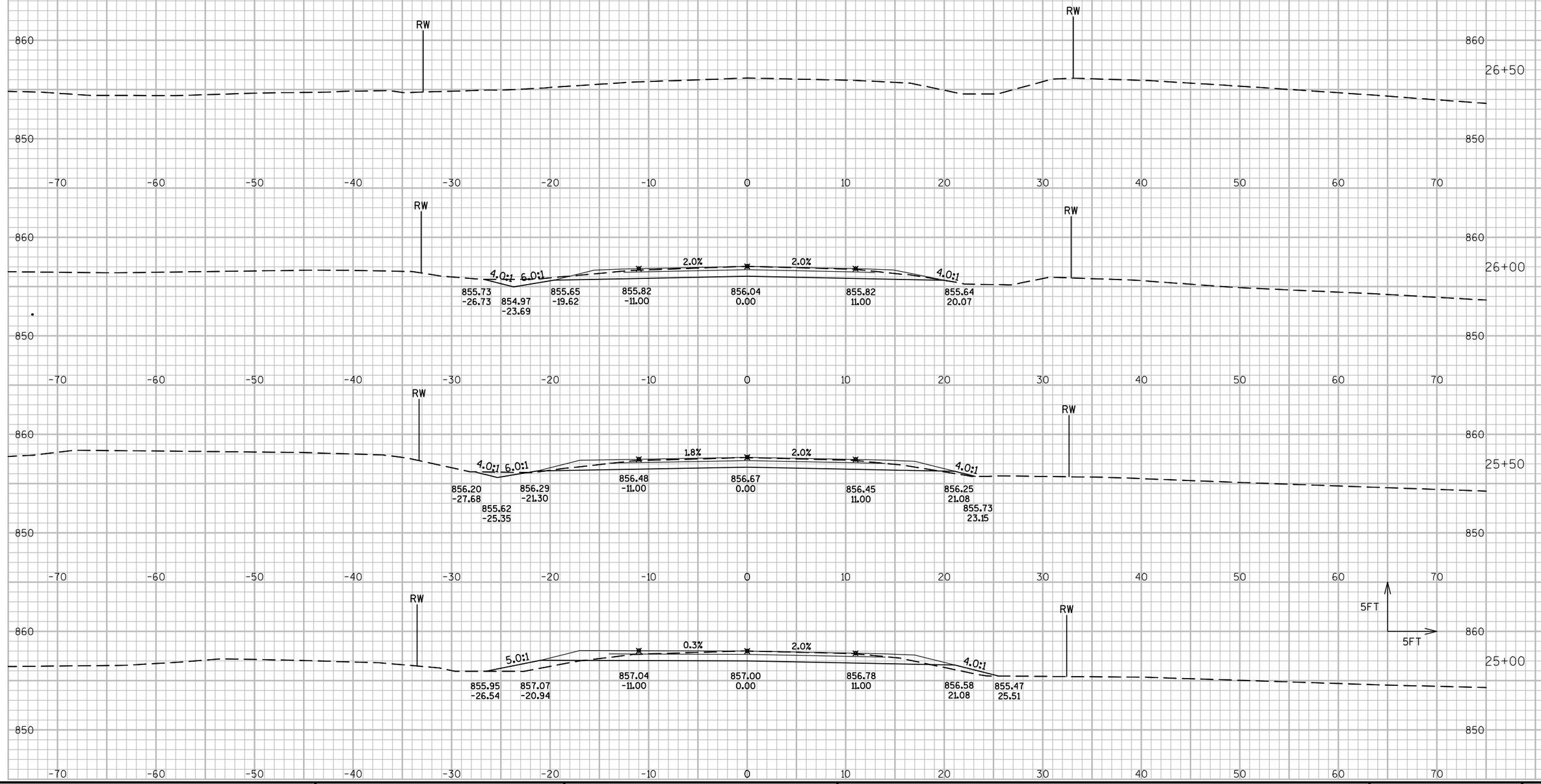
FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:03 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 196	E

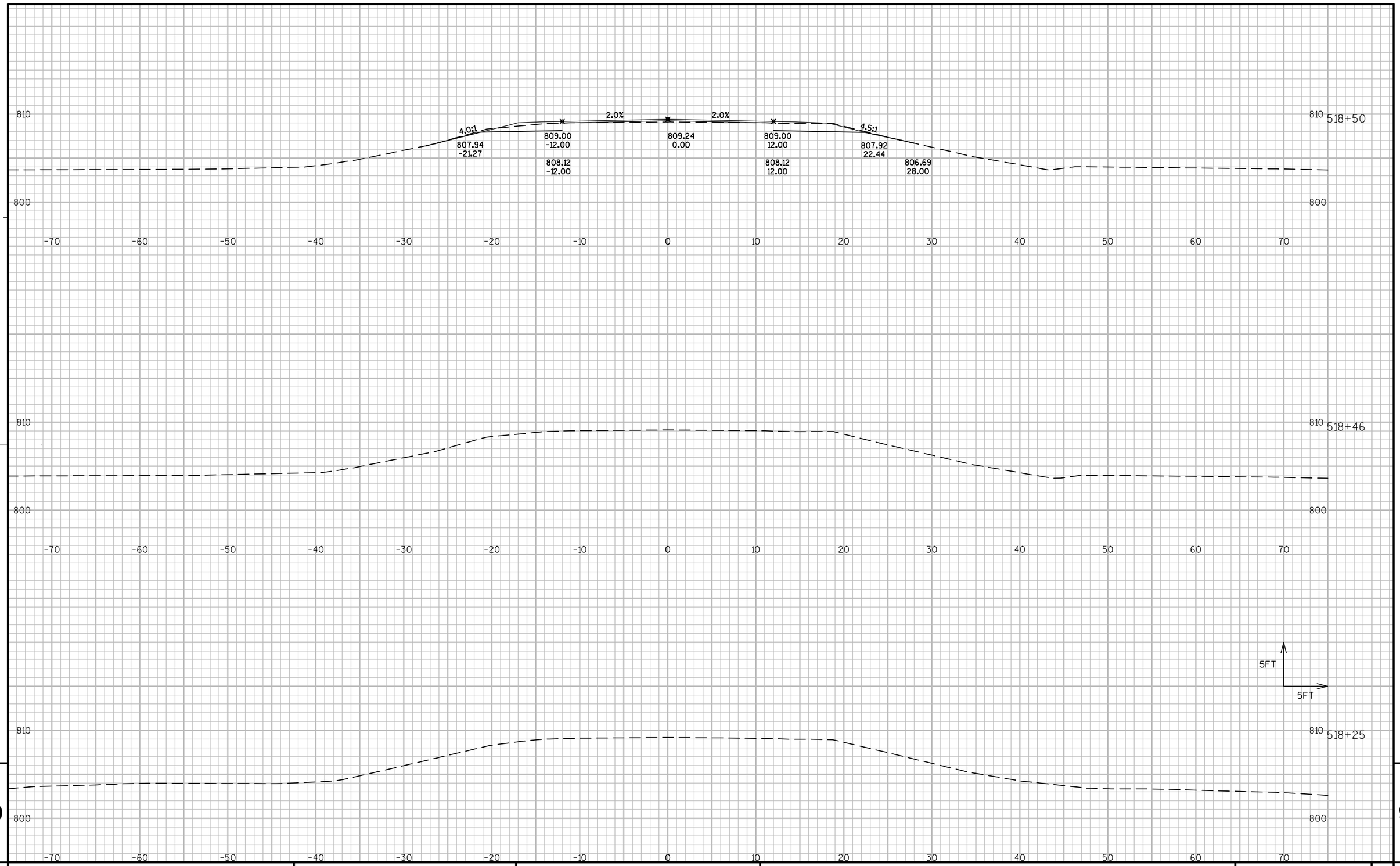
FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:03 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CTH J	SHEET 197	E

FILE NAME : N:\PDS\C3D\61500106\DESIGN\XSECTIONS\090202_XS (CTHJ).DWG PLOT DATE : 8/31/2016 3:03 PM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



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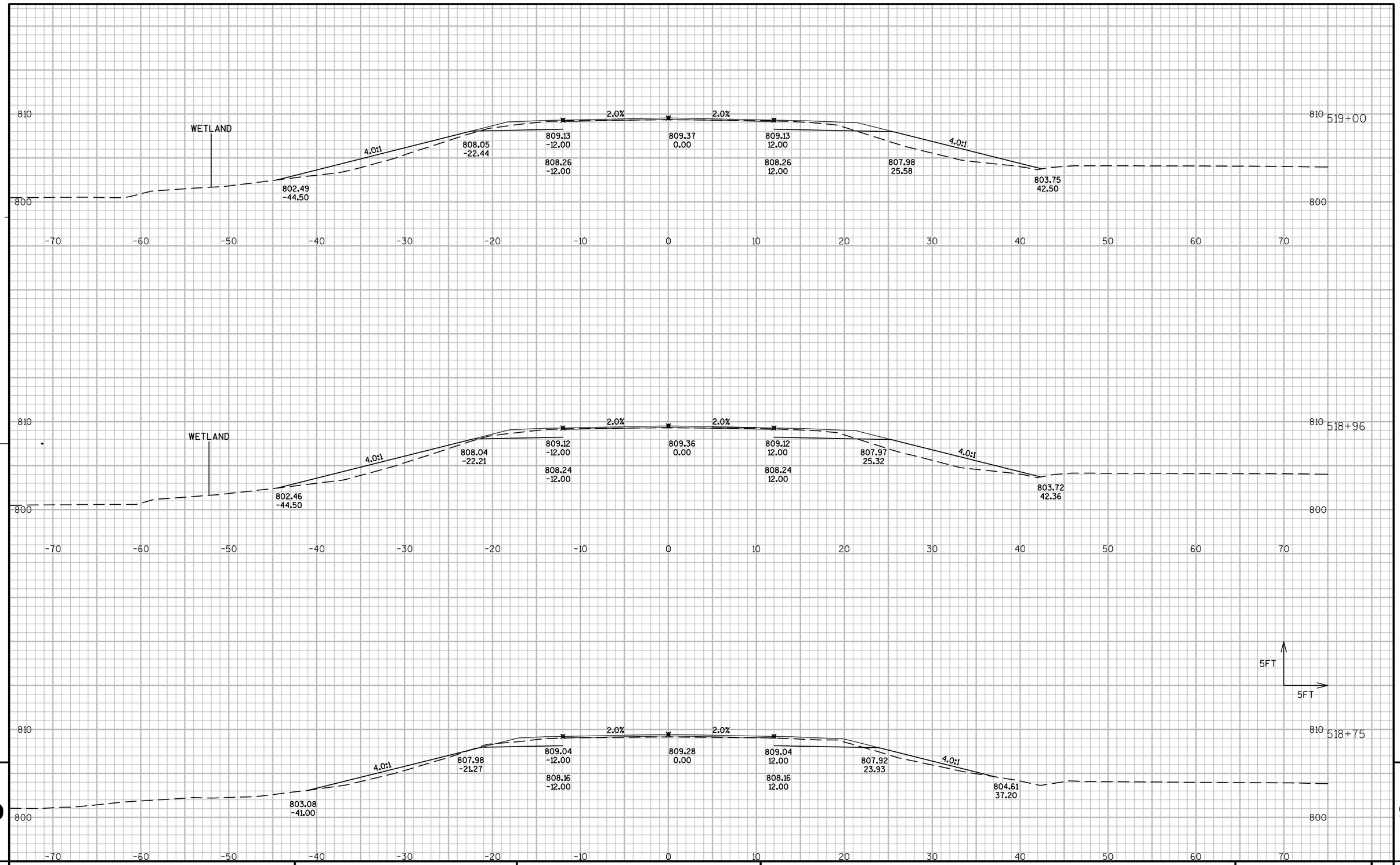
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 198	E



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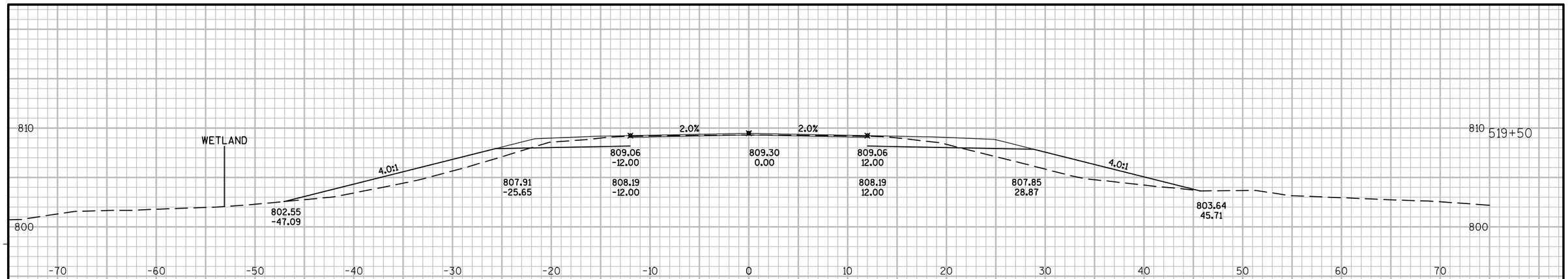
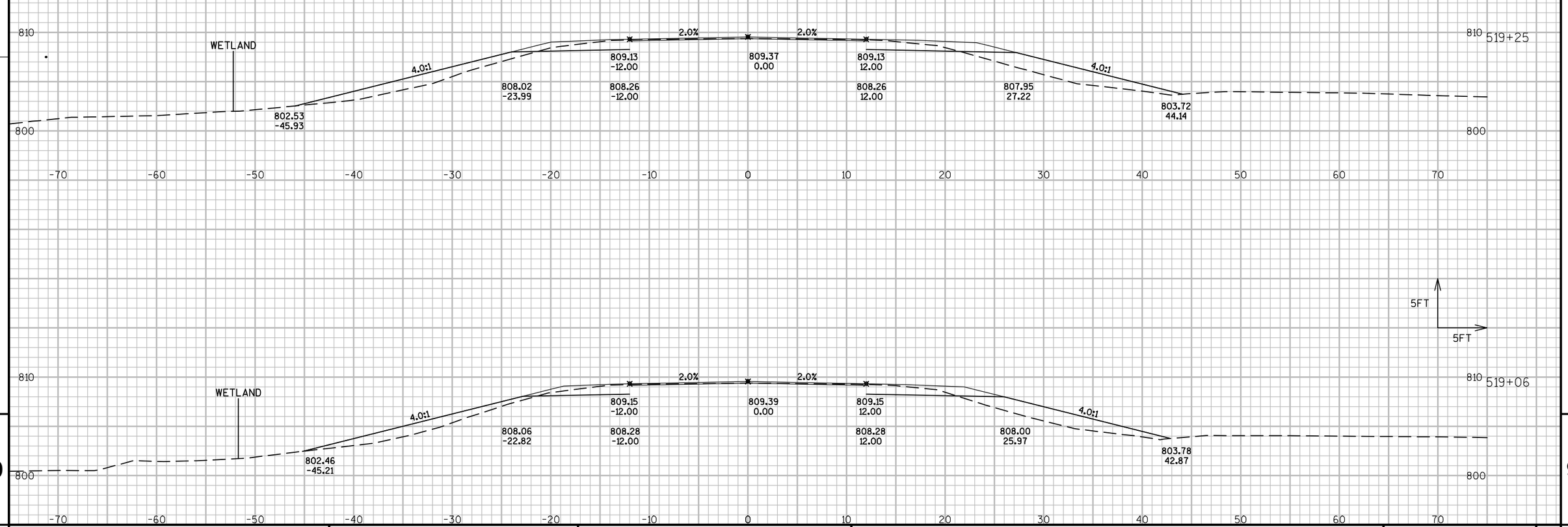
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 199	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090203-XS-MGS.DWG PLOT DATE : 12/1/2016 11:42 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49





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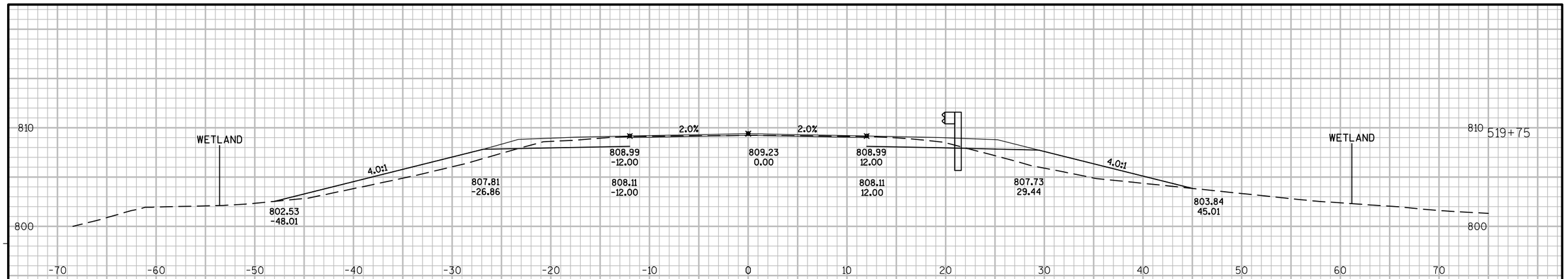
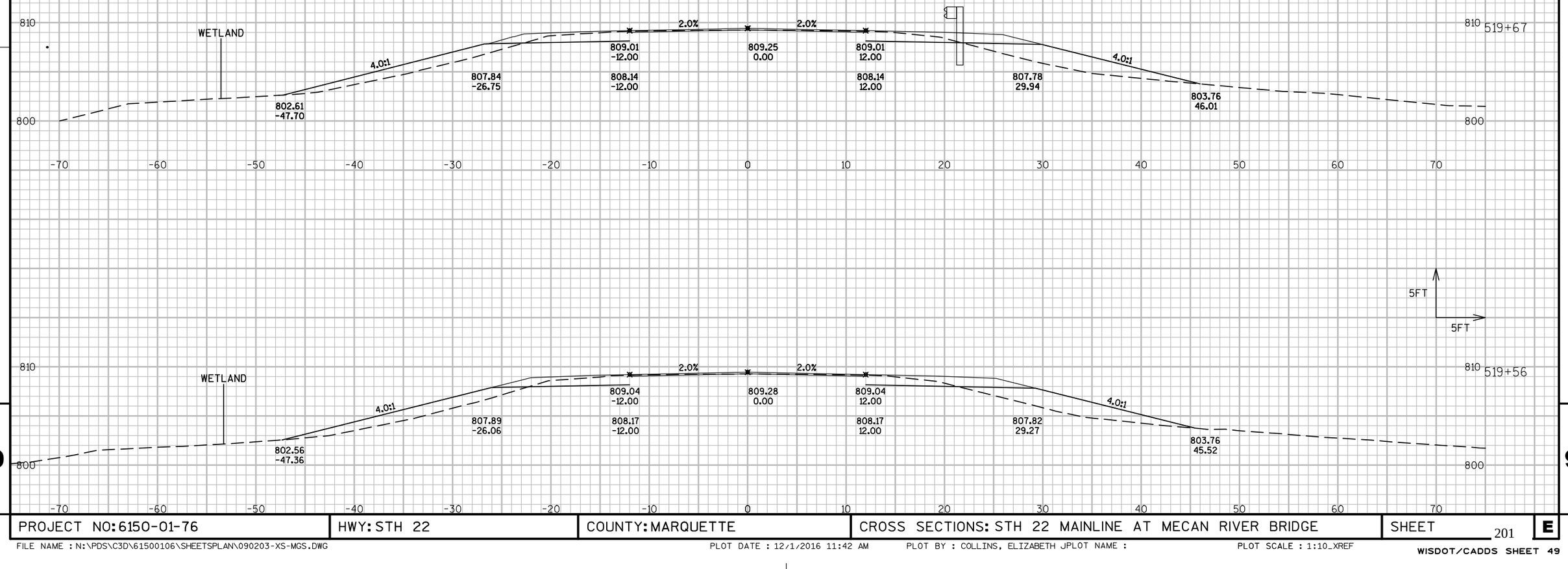
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 200	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090203-XS-MGS.DWG PLOT DATE : 12/1/2016 11:42 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



POST #1



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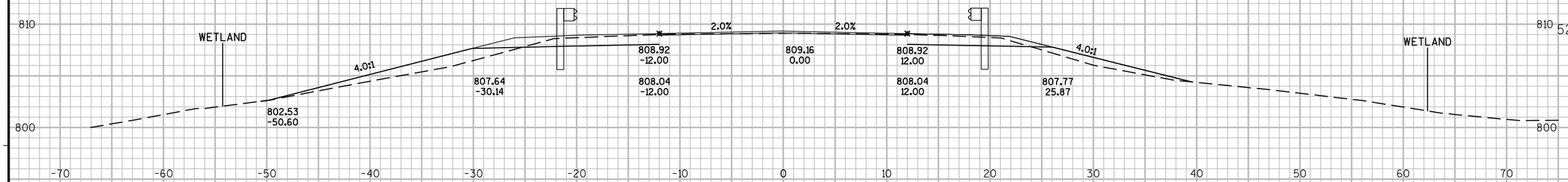
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 201	E

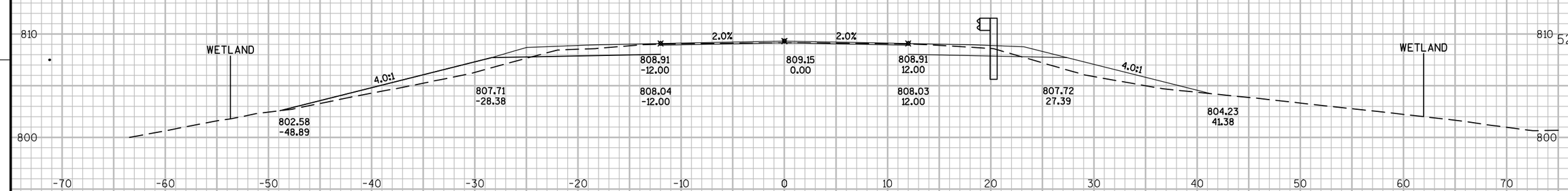
FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090203-XS-MGS.DWG PLOT DATE : 12/1/2016 11:42 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

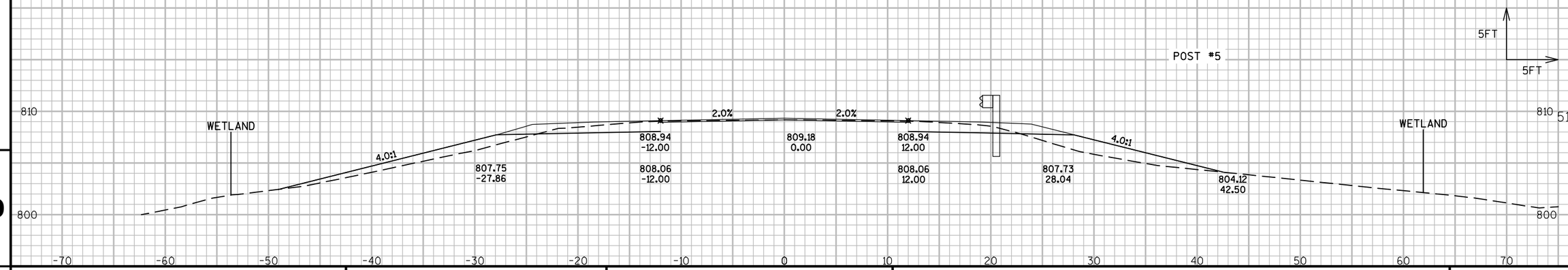
POST #1

POST #9





POST #5



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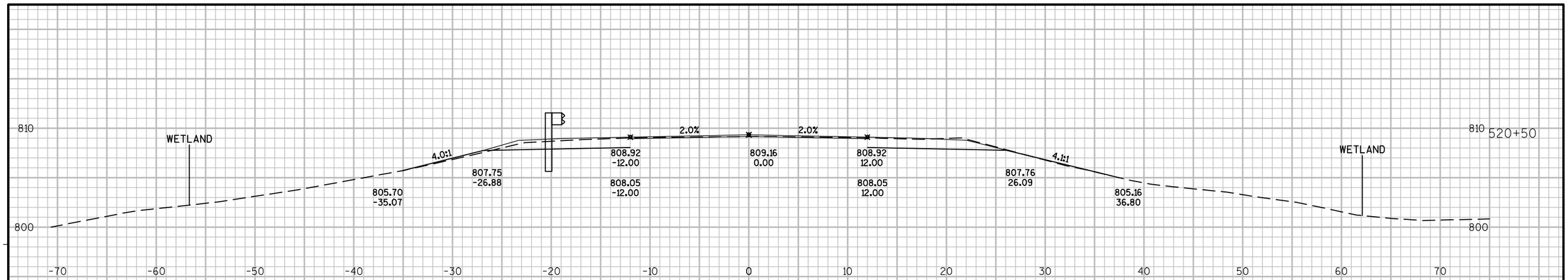
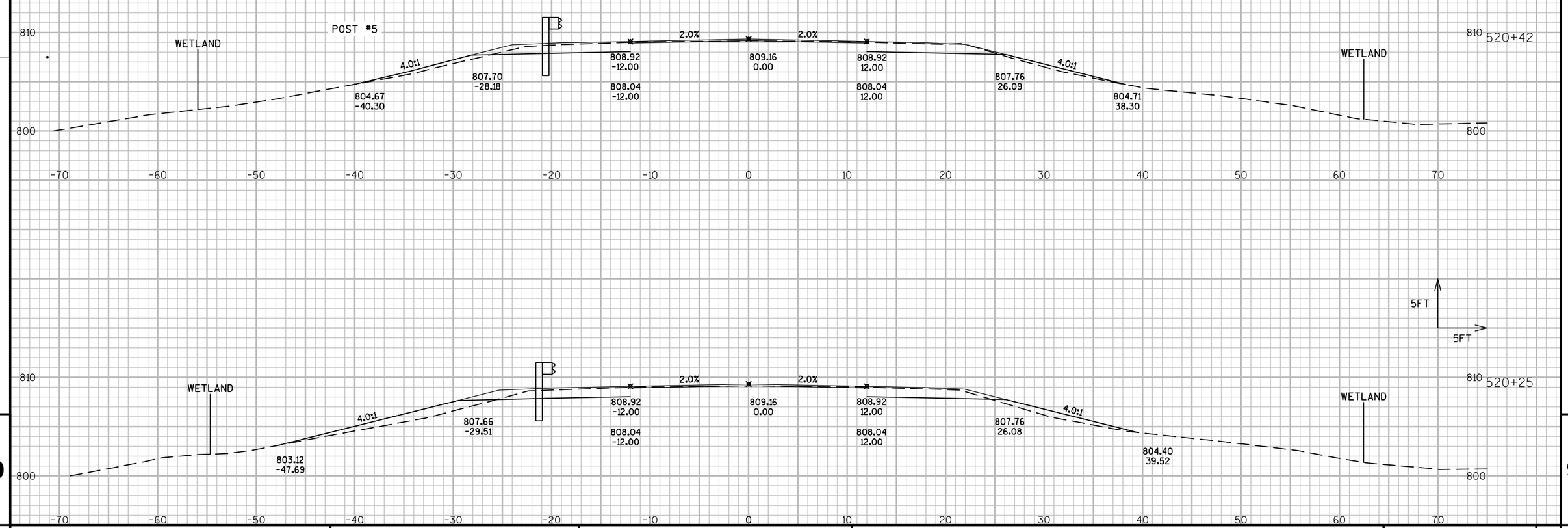
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 202	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090203-XS-MGS.DWG PLOT DATE : 12/1/2016 11:42 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF





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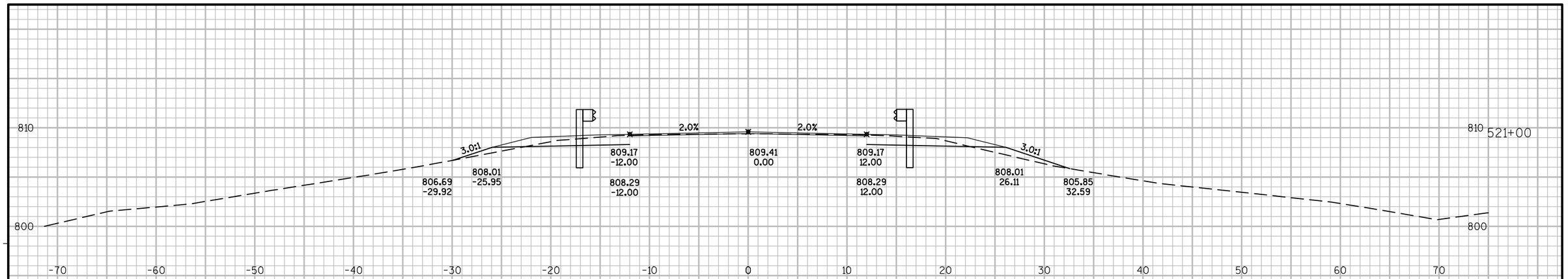
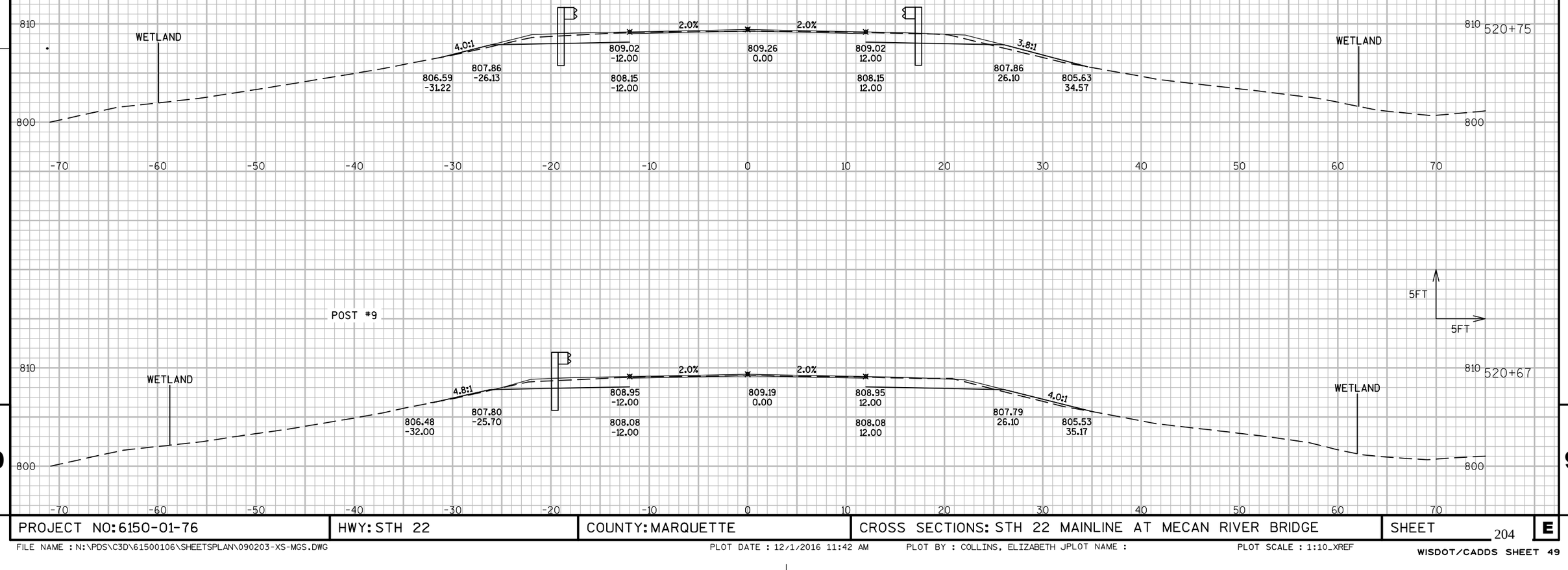
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 203	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090203-XS-MGS.DWG PLOT DATE : 12/1/2016 11:42 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



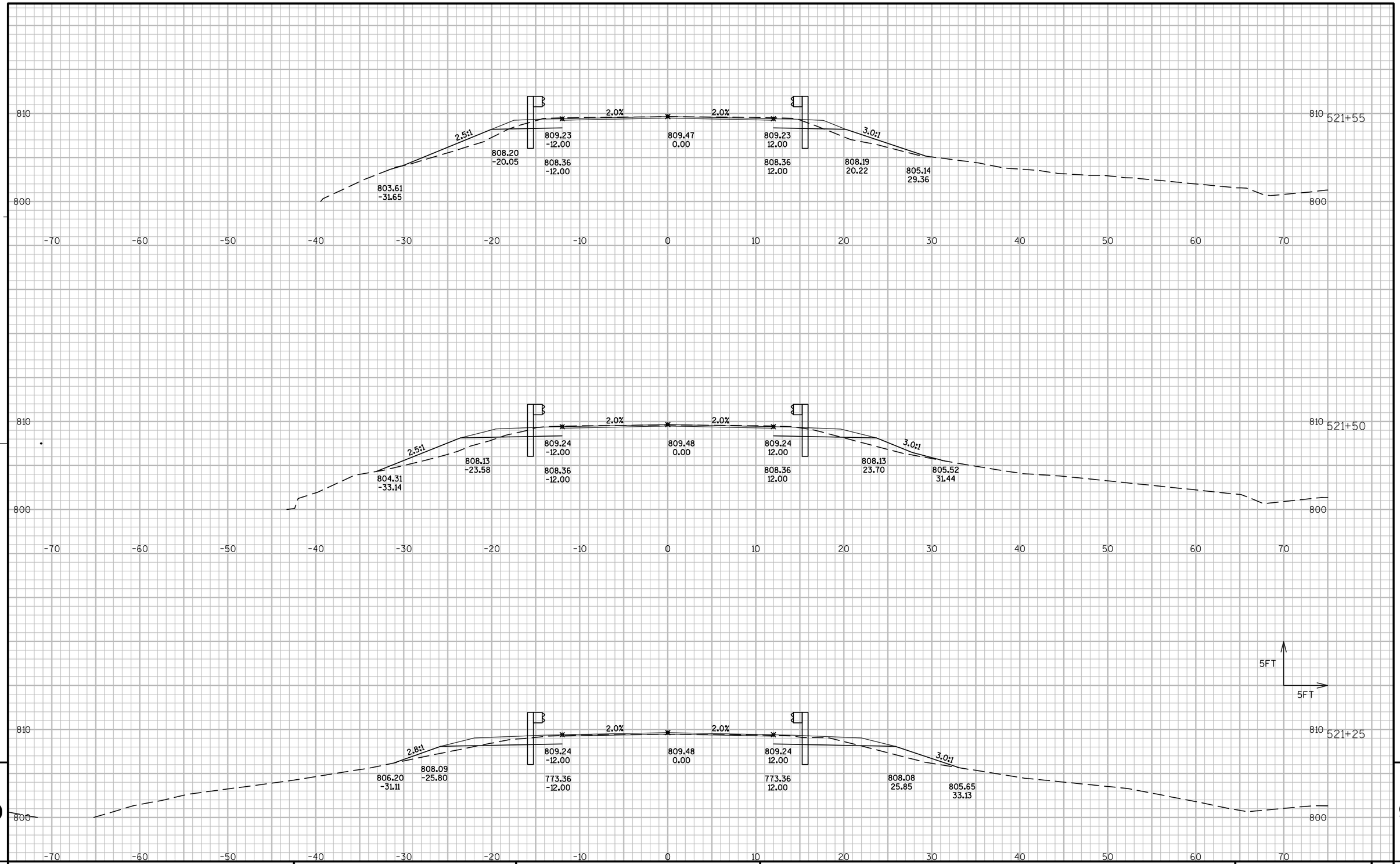


POST #9

9

9

PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 204	E



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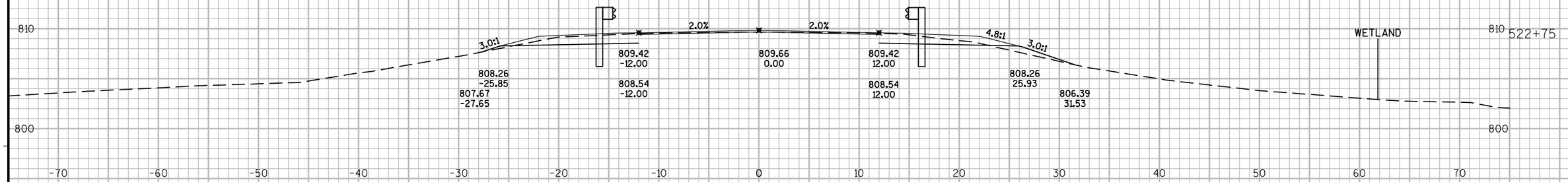
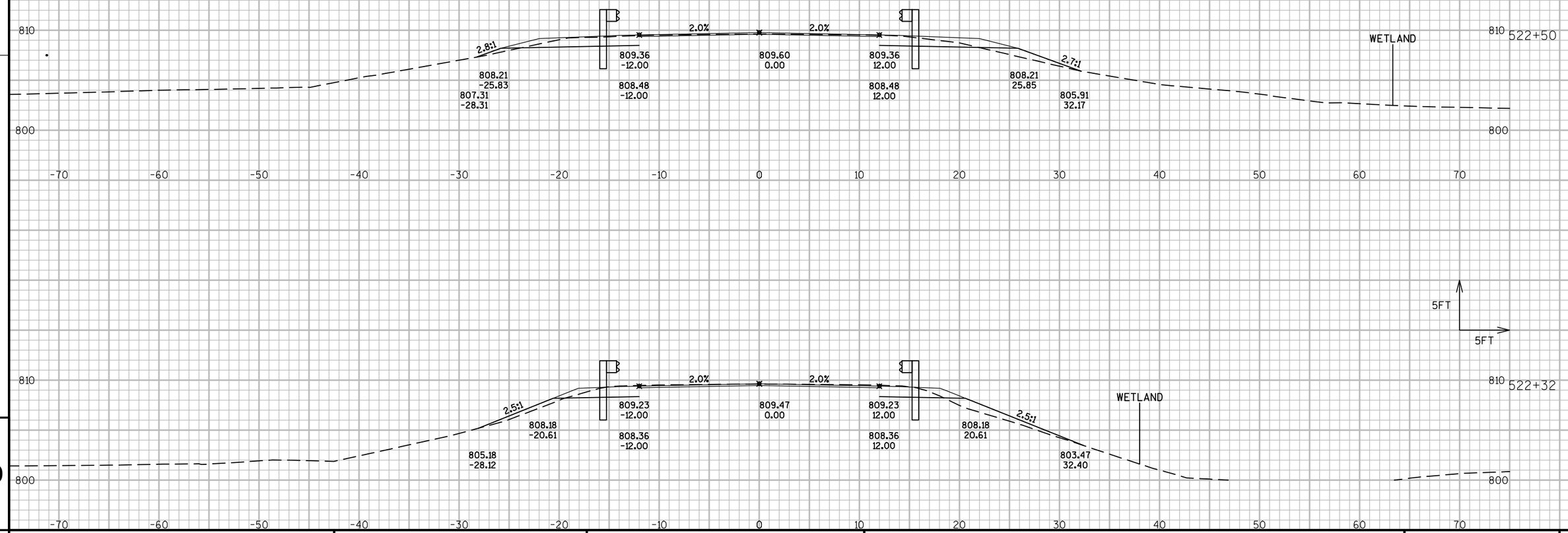
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 205	E





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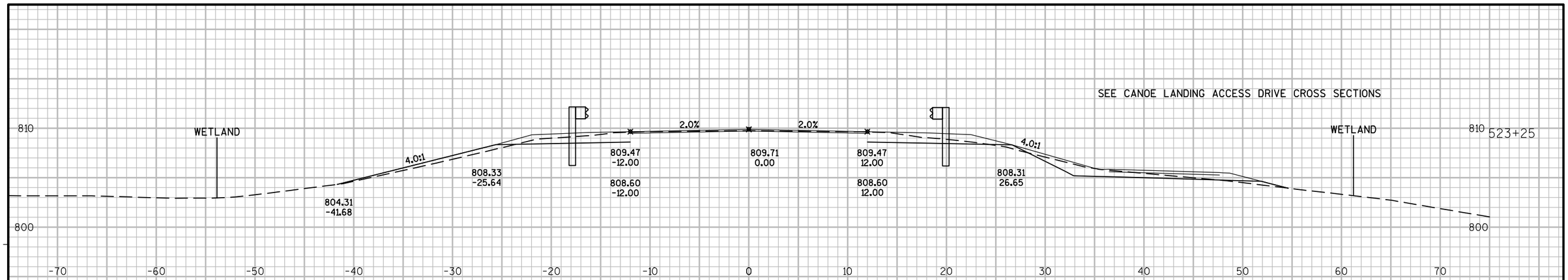
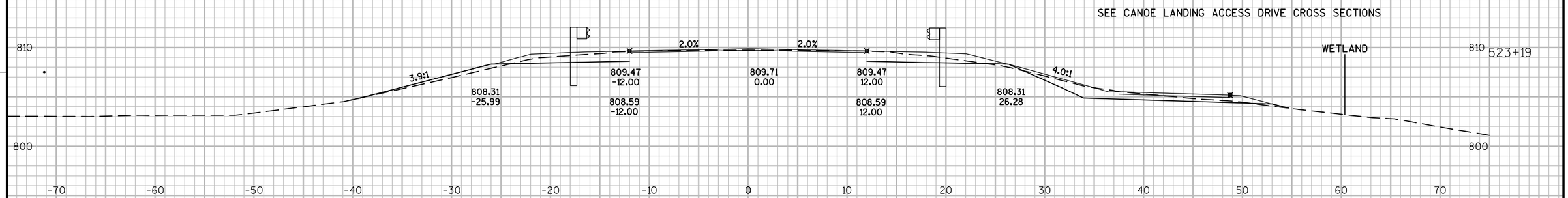
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 206	E

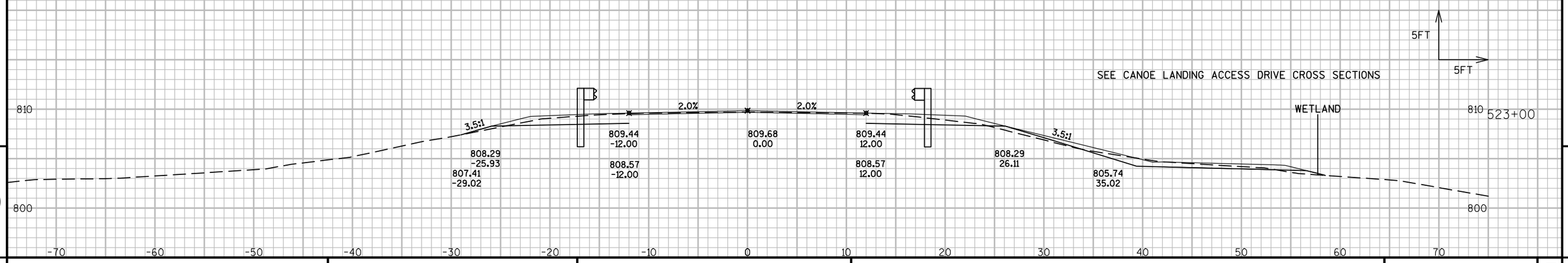
FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090203-XS-MGS.DWG PLOT DATE : 12/1/2016 11:42 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



POST #9





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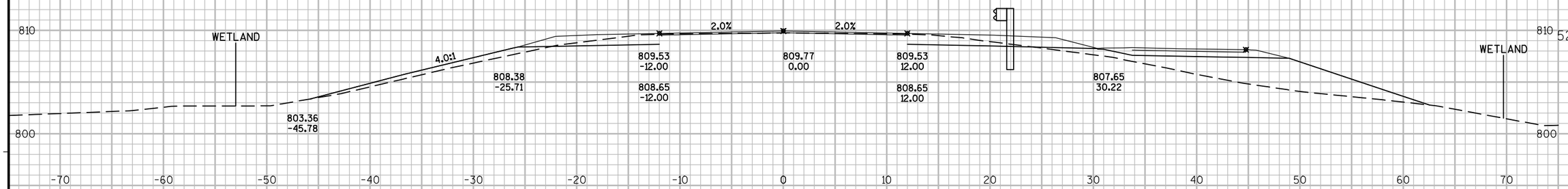
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 207	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090203-XS-MGS.DWG PLOT DATE : 12/1/2016 11:42 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49

POST #9

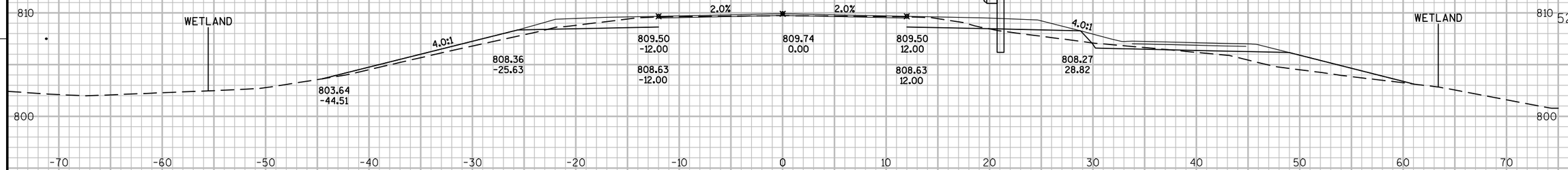


POST #1

SEE CANOE LANDING ACCESS DRIVE CROSS SECTIONS

523+70

WETLAND



SEE CANOE LANDING ACCESS DRIVE CROSS SECTIONS

523+50

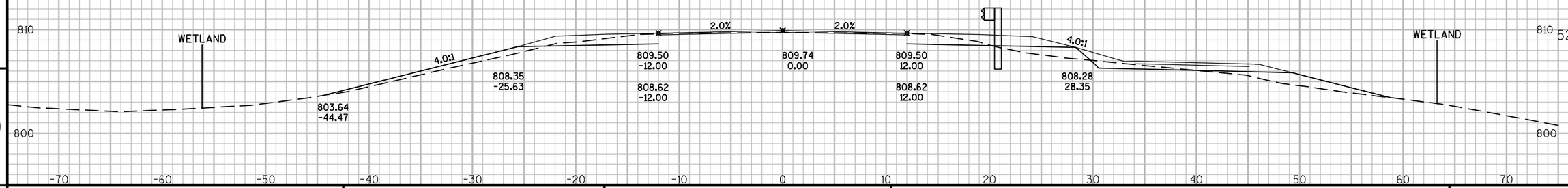
WETLAND

POST #5

SEE CANOE LANDING ACCESS DRIVE CROSS SECTIONS

5FT

5FT



523+45

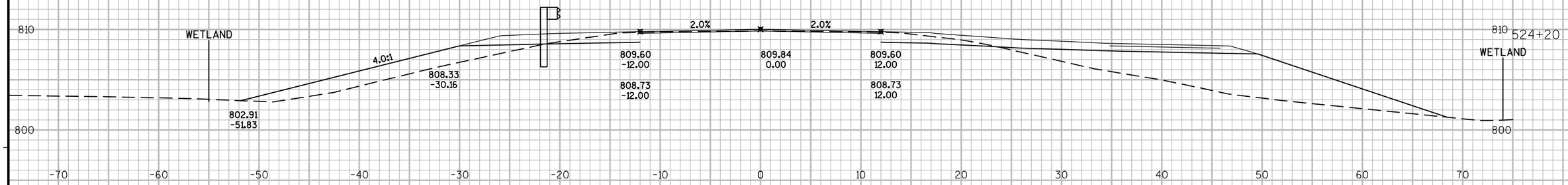
WETLAND

9

9

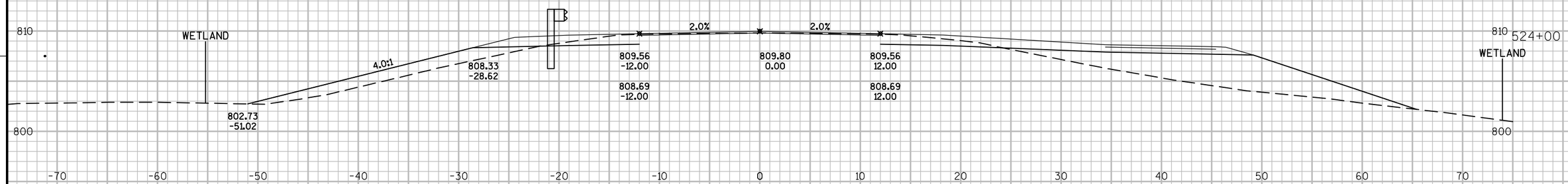
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 208	E

SEE CANOE LANDING ACCESS DRIVE CROSS SECTIONS



POST #5

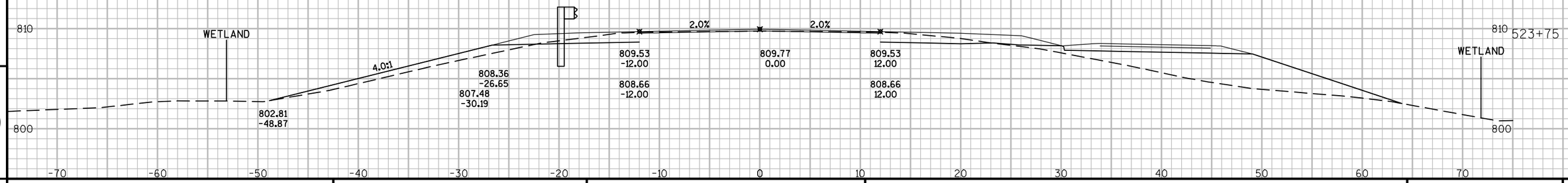
SEE CANOE LANDING ACCESS DRIVE CROSS SECTIONS



5FT

5FT

SEE CANOE LANDING ACCESS DRIVE CROSS SECTIONS



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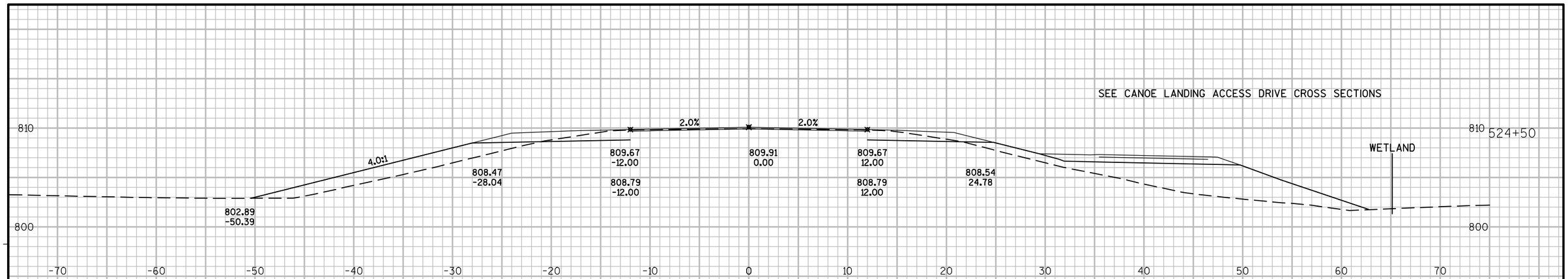
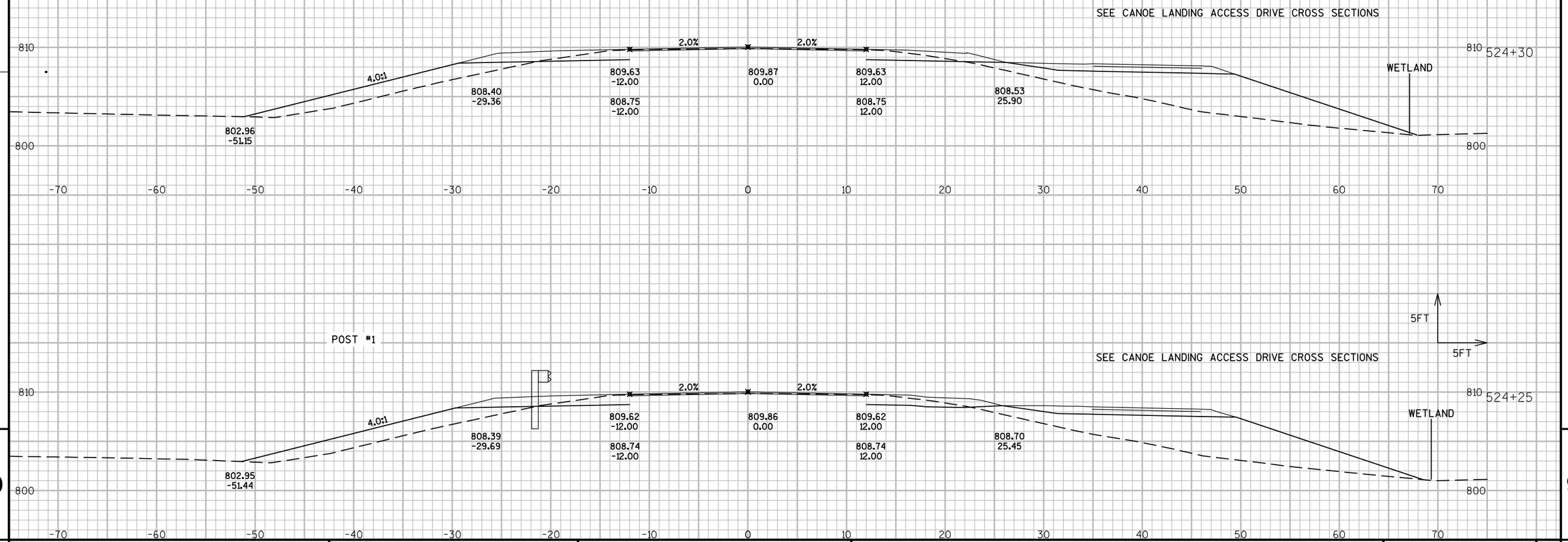
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 209	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090203-XS-MGS.DWG PLOT DATE : 12/1/2016 11:43 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49





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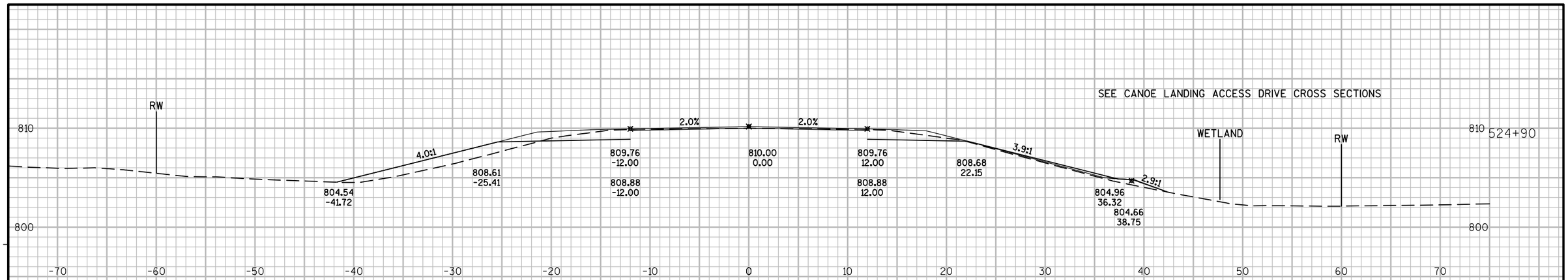
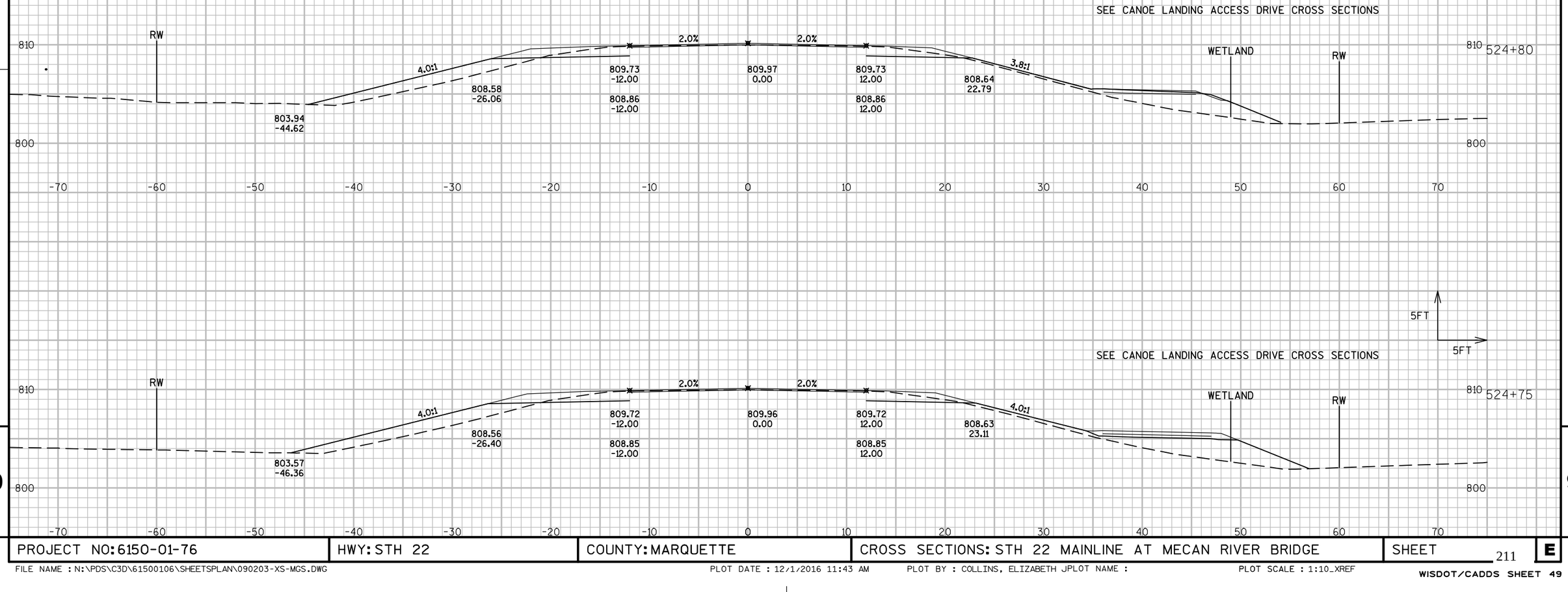
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 210	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090203-XS-MGS.DWG PLOT DATE : 12/1/2016 11:43 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49





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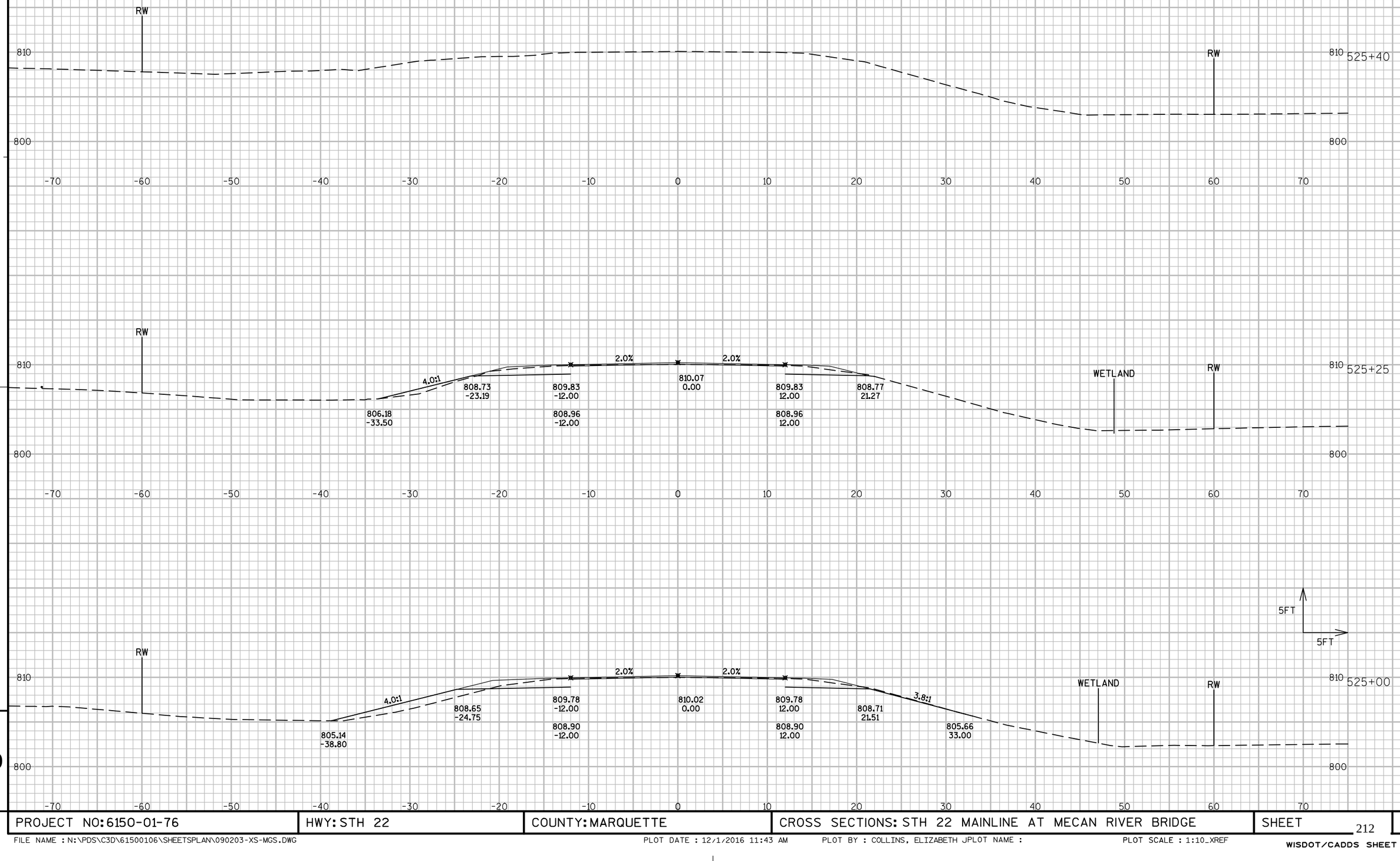
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 211	E



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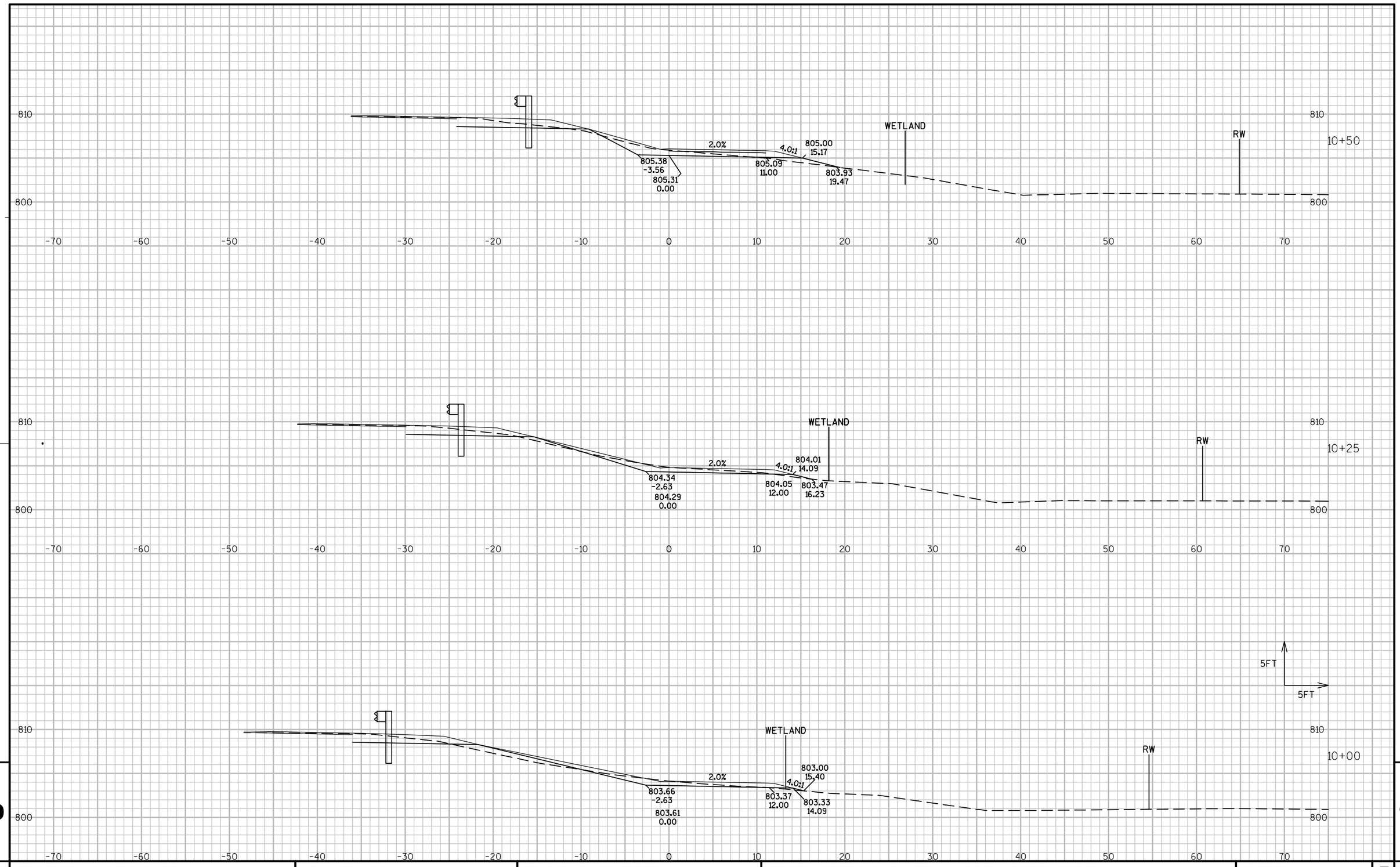
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: STH 22 MAINLINE AT MECAN RIVER BRIDGE	SHEET 212	E



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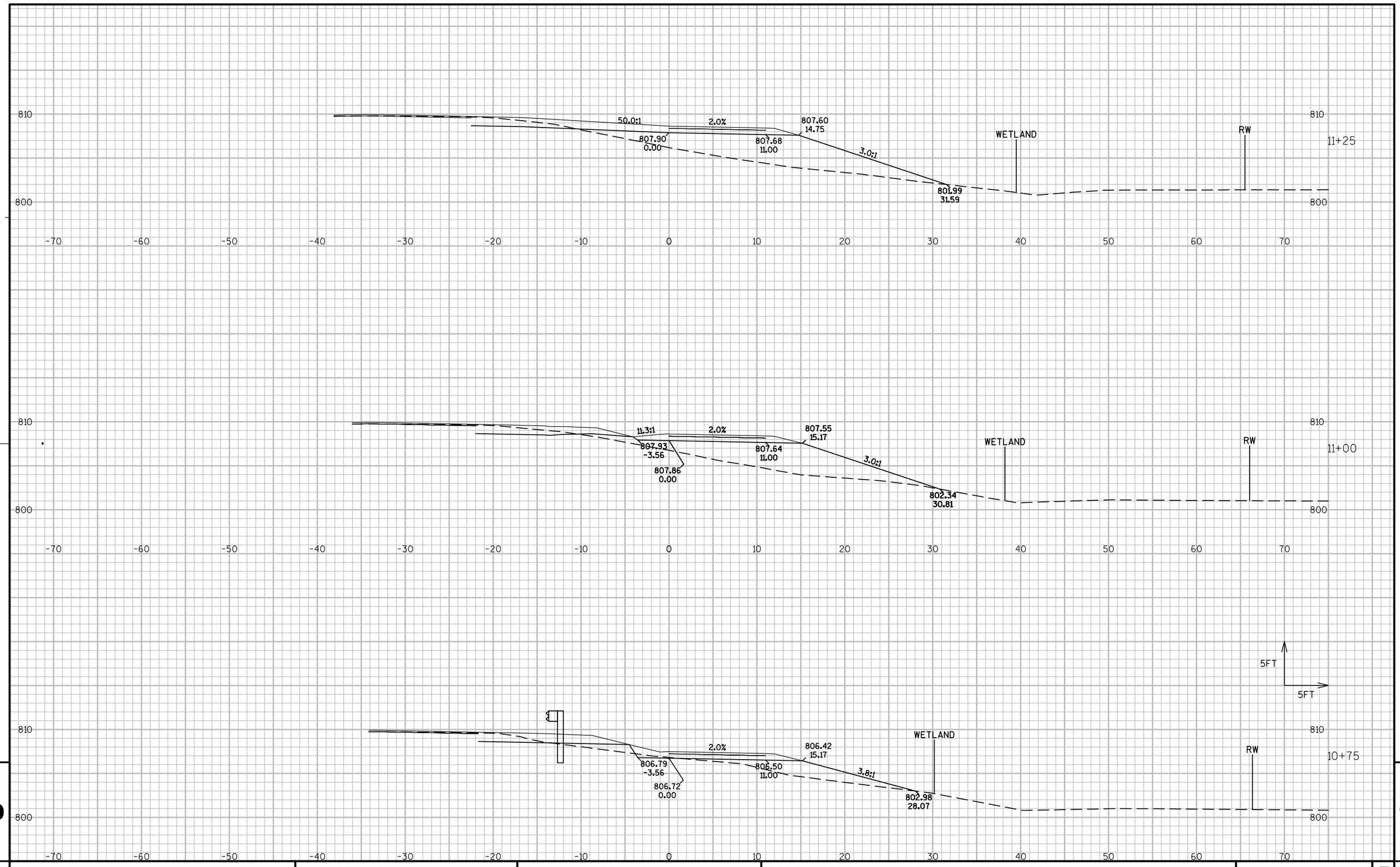
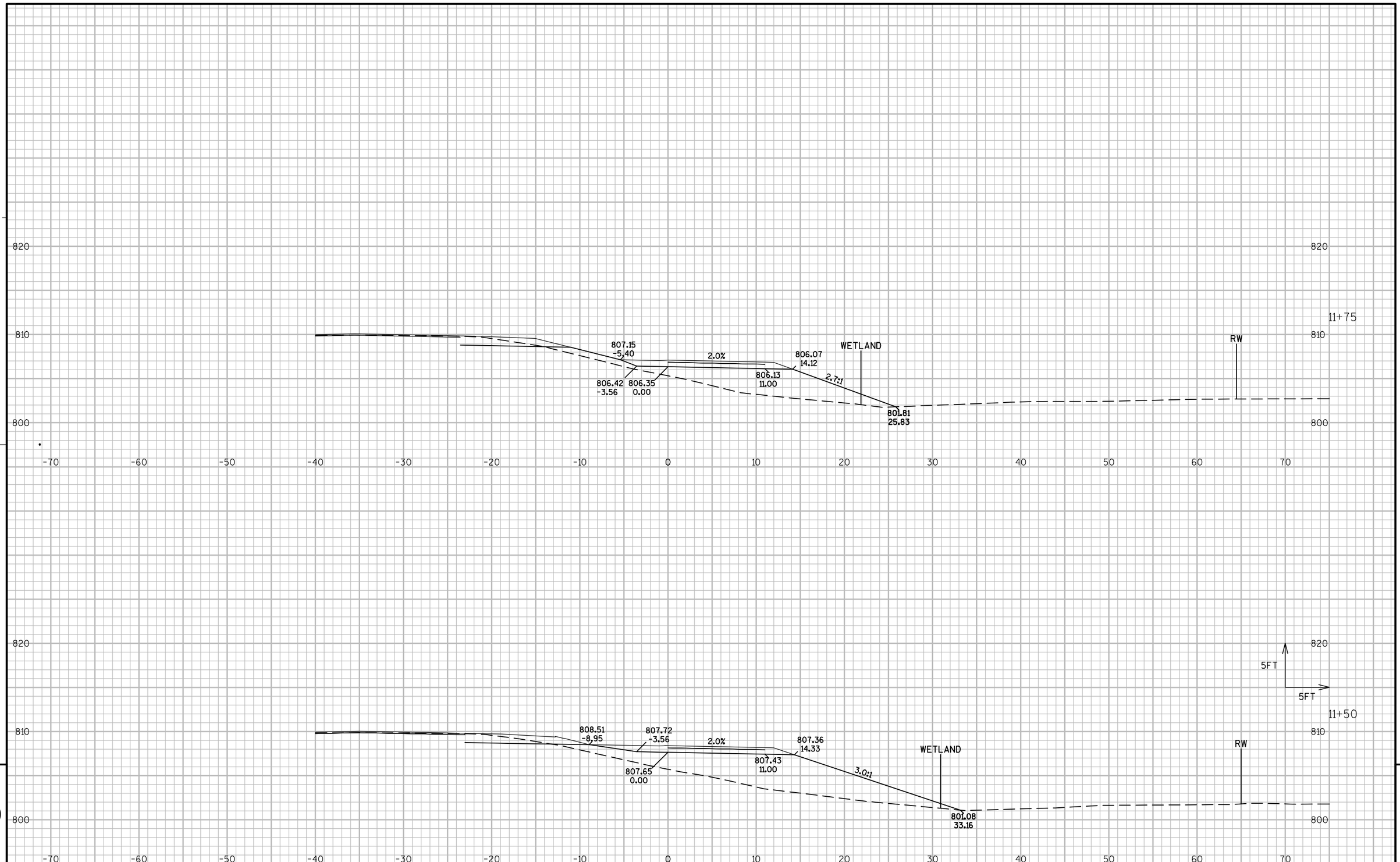
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CANOE LANDING ACCESS DRIVE	SHEET 213	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090204-XS-MGS-ACCESS.DWG
LAYOUT NAME - 090204-(1)_XS

PLOT DATE : 12/1/2016 11:44 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CANOE LANDING ACCESS DRIVE	SHEET 214	E



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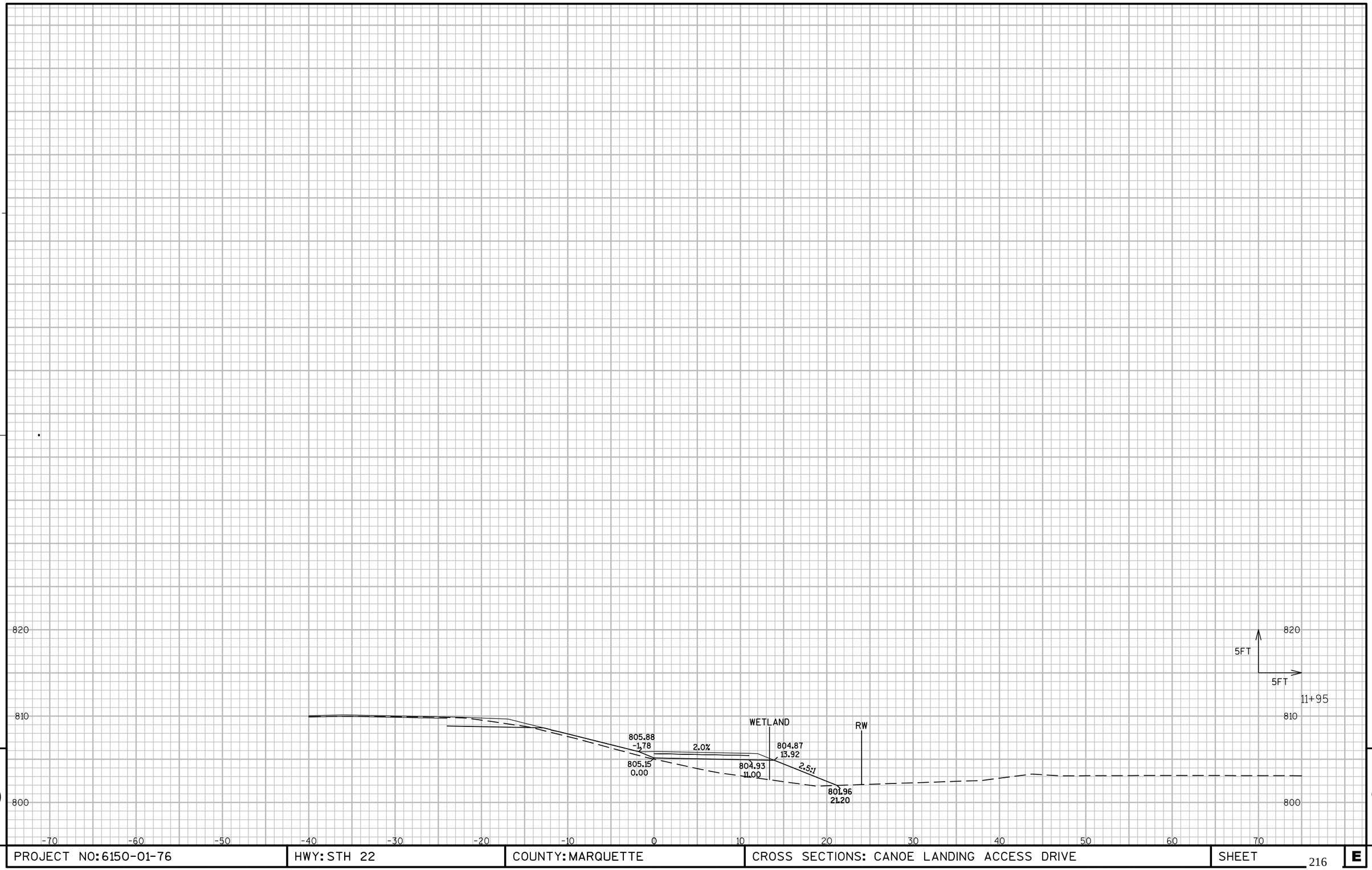
PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CANOE LANDING ACCESS DRIVE	SHEET 215	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090204-XS-MGS-ACCESS.DWG
LAYOUT NAME - 090204-(3)_XS

PLOT DATE : 12/1/2016 11:44 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF



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PROJECT NO: 6150-01-76	HWY: STH 22	COUNTY: MARQUETTE	CROSS SECTIONS: CANOE LANDING ACCESS DRIVE	SHEET 216	E

FILE NAME : N:\PDS\C3D\61500106\SHEETSPLAN\090204-XS-MGS-ACCESS.DWG
LAYOUT NAME - 090204-(4)_XS

PLOT DATE : 12/1/2016 11:44 AM PLOT BY : COLLINS, ELIZABETH JPLOT NAME : PLOT SCALE : 1:10_XREF

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
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