GRE

MARCH 2017

PROJECT ID: 6525-06-71

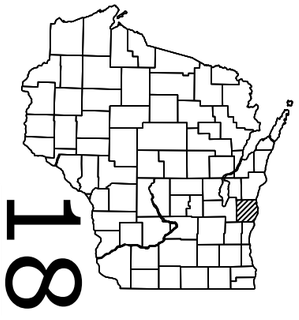
WITH: N/A

COUNTY: SHEBOYGAN

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 = 394



18

DESIGN DESIGNATION		STH 28-CTH I	CTH I-CTH K	CTH K- STH 57
A.A.D.T.	2014 =	2100	2900	4000
A.A.D.T.	2034 =	2600	3800	4900
D.H.V.	2034 =	14.0		
D.D.	=	62/38		
T.	=	17.5%		
DESIGN SPEED	=	55 MPH (35 MPH SILVERCREEK)		
ESALS	=	2,095,100		

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE (PL + 58.)
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 28 - RANDOM LAKE

STH 28 - STH 57

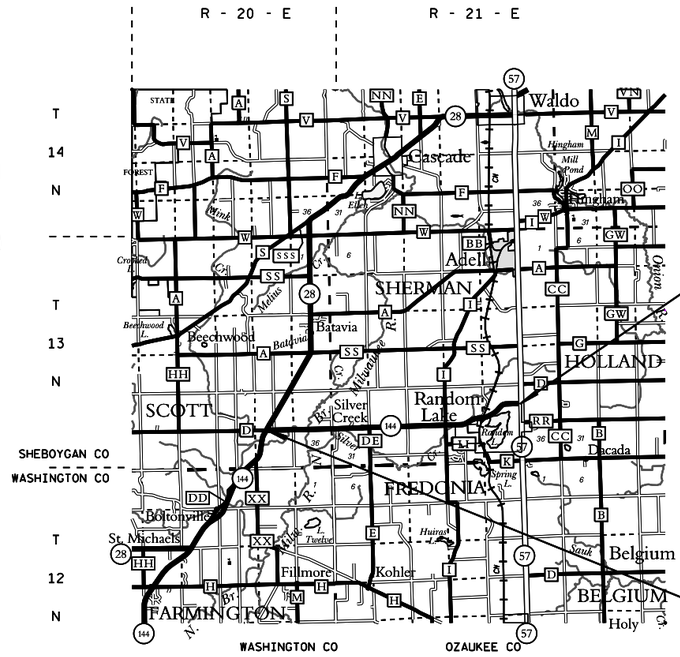
STH 144

SHEBOYGAN COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6525-06-71	WISC 2017107	1

STATE PROJECT NUMBER

6525-06-71



END PROJECT 6525-06-71

STA 560+23

BEGIN PROJECT 6525-06-71

STA 200+44.00

Y= 106241.7958

X=122921.5698

LAYOUT

SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 6.804 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, SHEBOYGAN COUNTY, NAD 83 (1991), NAVD 88 (1991), 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	WisDOT NE REGION
Designer	B. HARDY
Project Manager	K. TREML
Regional Examiner	
Regional Supervisor	R. WAGNER
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 11/1/16 (Signature)

E

GENERAL NOTES

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT THE APPPOVAL OF THE ENGINEER.

RADIUS DIMENSIONS OF CURB AND GUTTER ARE TO THE FLANGE (FLAG) OF THE CURB UNLESS OTHERWISE NOTED.

STATIONING FOR THE BEAM GUARD IS APPROXIMATE AND SHOULD BE VERIFIED BY THE ENGINEER.

LOCATIONS OF DRIVEWAYS AND CULVERT PIPES ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE ENGINEER. ACTUAL LENGTHS MAY VARY FROM MISCELLANEOUS QUANTITIES AND SHOULD BE VERIFIED.

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

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. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.

THE EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

DRIVEWAYS SHALL BE REPLACED IN KIND. BASE AGGREGATE DENSE WILL BE USED UNDER ALL DRIVEWAYS.

PROPERTY OWNERS SHALL BE NOTIFIED 48 HOURS IN ADVANCE FOR DRIVEWAY CLOSURES AND ACCESS RESTRICTIONS TO THEIR PROPERTY.

UTILITIES

STEVE WHITTY
ANR PIPELINE CO (GAS/PETROLEUM)
W8715 TOWER ROAD
ADELL, WI 53001
(262) 626-3441
(920) 375-0475 MOBILE
steve whitty@transcanada.com

DOUG VOSBERG
ATC MANAGEMENT, INC. (ELECTRICITY-TRANSMISSION)
5303 FEN OAK DRIVE
MADISON, WI 53718
(608) 877-7650
dvosberg@atcllc.com

RUSS RYAN
FRONTIER COMMUNICATIONS OF WI LLC (COMMUNICATION LINE)
315 OAK STREET
OAKFIELD, WI 53065
(920) 583-3275
(920) 737-9662 MOBILE
russell.w.ryan@ftr.com

ANDREW SCHNEIDER
LAKESIDE FOODS, INC. (WATER)
808 HAMILTON STREET
MANITOWOC, WI 54220
(920) 994-2117 EXT. 302
aschneider@lakesidefoods.com

STEVE CRAMER
TIME WARNER CABLE (COMMUNICATION LINE)
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
(414) 277-4045
(414) 688-2385 MOBILE
steve.cramer@twcable.com

JOE HUIRAS
VILLAGE OF RANDOM LAKE (SEWER)
96 RUSSELL DRIVE
RANDOM LAKE, WI 533075
(920) 980-0598
jhuiras@randomlakewi.com

JOE HUIRAS
VILLAGE OF RANDOM LAKE (WATER)
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jhuiras@randomlakewi.com

NICK ERNSTER
WE ENERGIES (GAS/PETROLEUM)
500 S. 116TH STREET
WEST ALLIS, WI 53214
(414) 944-5574
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nicholas.ernster@we-energies.com

AL SCHMITT
WE ENERGIES (ELECTRICITY)
245 SAND DRIVE
WEST BEND, WI 53095
(262) 338-7662
(414) 322-1824 MOBILE
alan.schmitt@we-energies.com

DNR AREA LIAISON

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

SURVEY CONTACT PERSON

CONTACT: CORMAC MCINNIS
WISDOT-NE REGION
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-492-5638
cormac.mcinnis@dot.wi.gov

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

EMERGENCY CONTACT NUMBERS FOR WE ENERGIES

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-662-4797
GAS 24 HOUR EMERGENCY SERVICE: 1-800-261-5325

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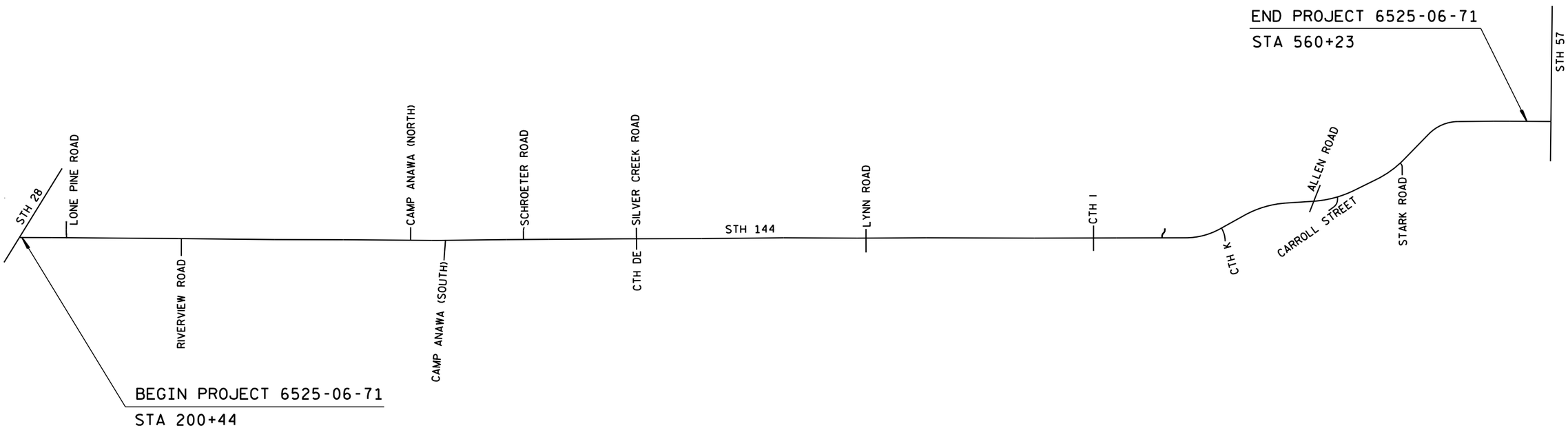
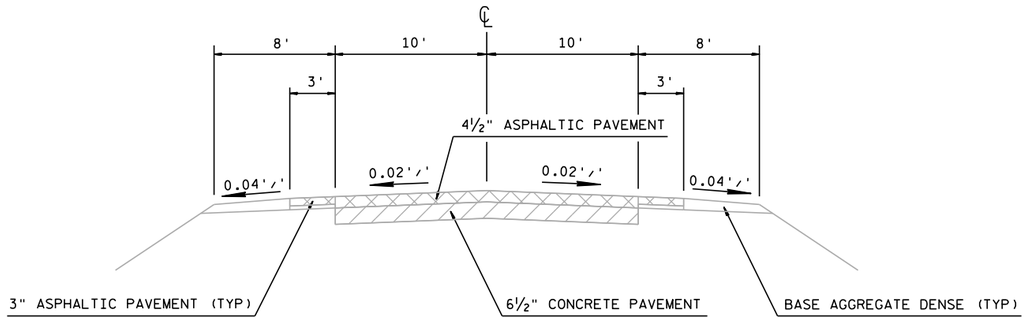
N

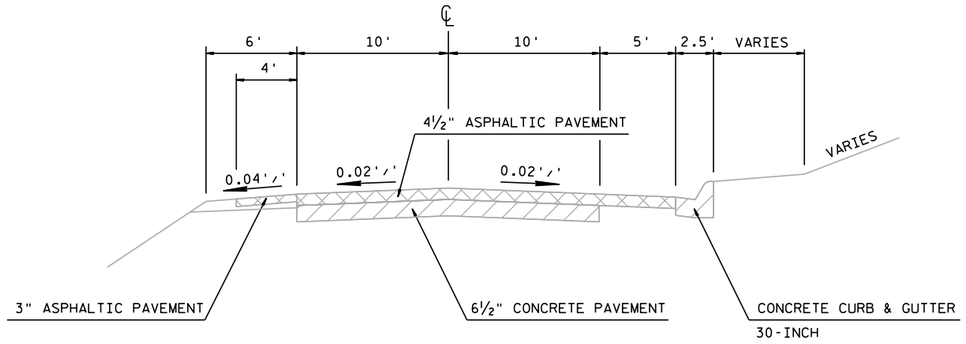


PROJECT NO:6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PROJECT OVERVIEW	SHEET 3	E



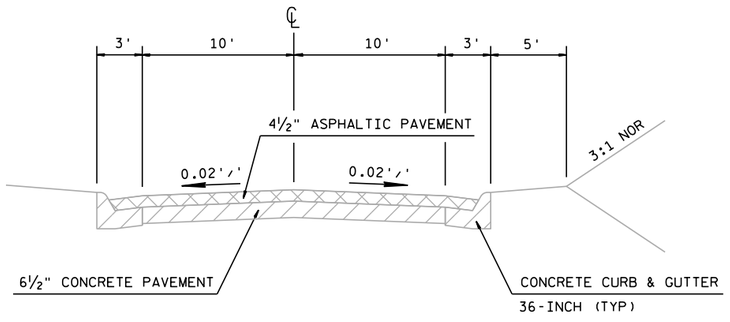
TYPICAL EXISTING CROSS SECTION FOR STH 144

200+50 - 234+37
235+50 - 305+50
348+00 - 465+00
511+13 - 560+23



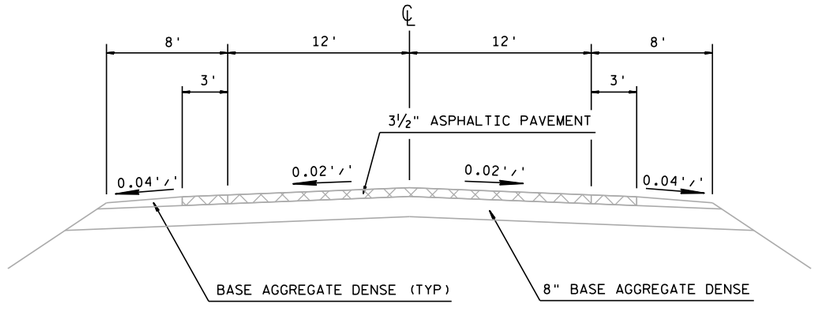
TYPICAL EXISTING CROSS SECTION FOR STH 144

234+37 - 235+50



TYPICAL EXISTING CROSS SECTION FOR STH 144

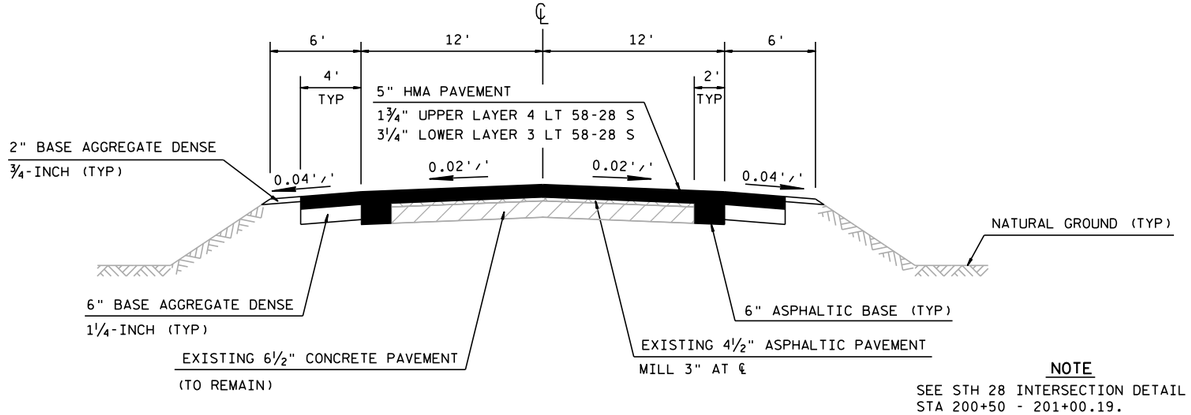
305+50 - 348+00



TYPICAL EXISTING CROSS SECTION FOR STH 144

465+00 - 511+13

PROJECT NO:6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	TYPICAL CROSS SECTIONS	SHEET	E

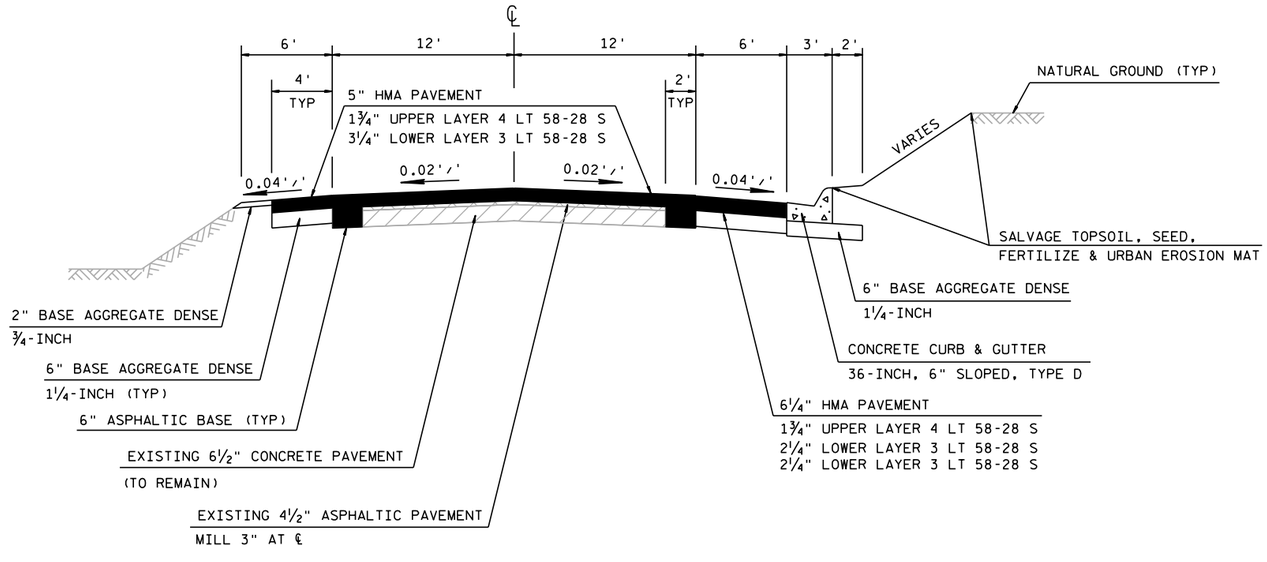


NOTE

SEE STH 28 INTERSECTION DETAIL AT STA 200+50 - 201+00.19.

TYPICAL FINISHED CROSS SECTION FOR STH 144

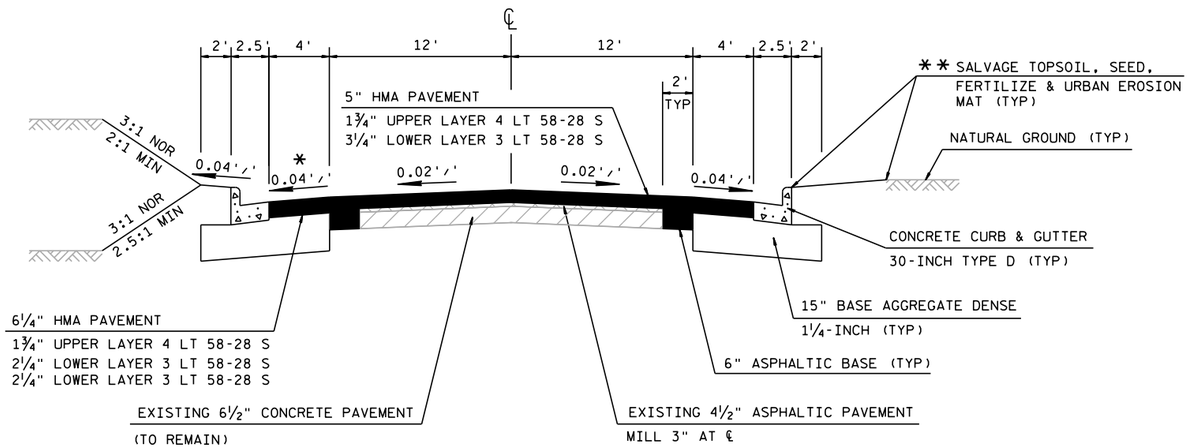
201+00 - 234+37
236+98 - 305+50
348+00 - 465+62



TYPICAL FINISHED CROSS SECTION FOR STH 144

234+37 - 236+98

PROJECT NO:6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	TYPICAL CROSS SECTIONS	SHEET	E

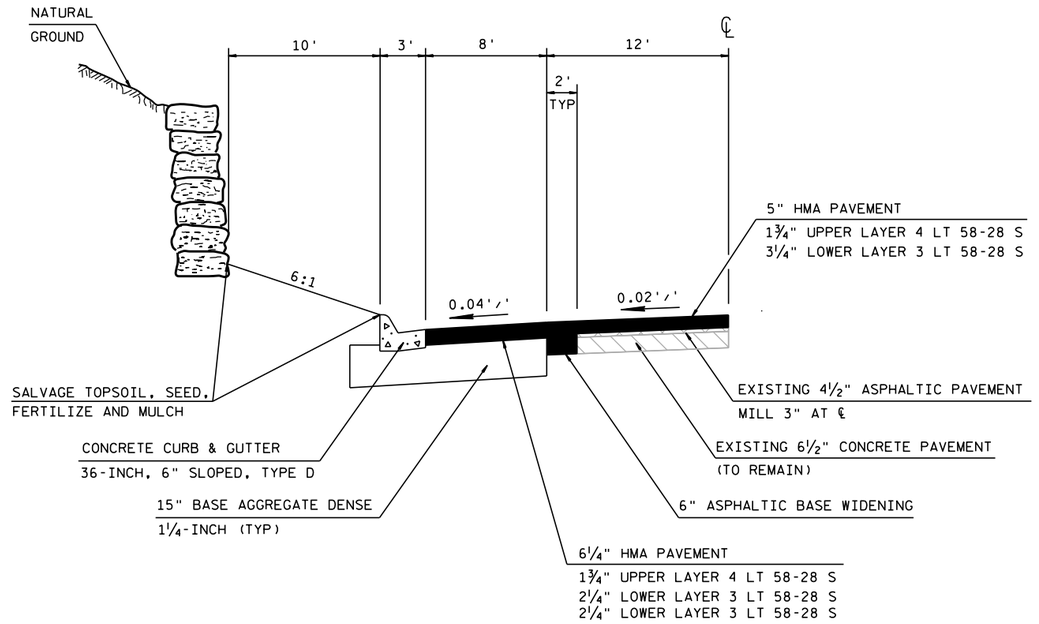


* STA 336+84 - 339+83.46 LT 0.01% SLOPE

** EXCEPT STA 329+55 - 330+28 RT
BASE AGGREGATE DENSE ¾-INCH REQ'D

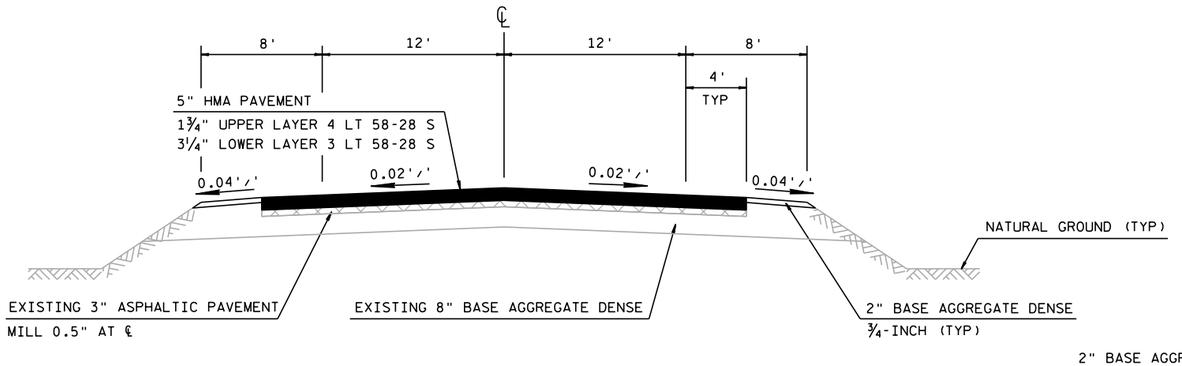
TYPICAL FINISHED CROSS SECTION FOR STH 144

305+50 - 348+00



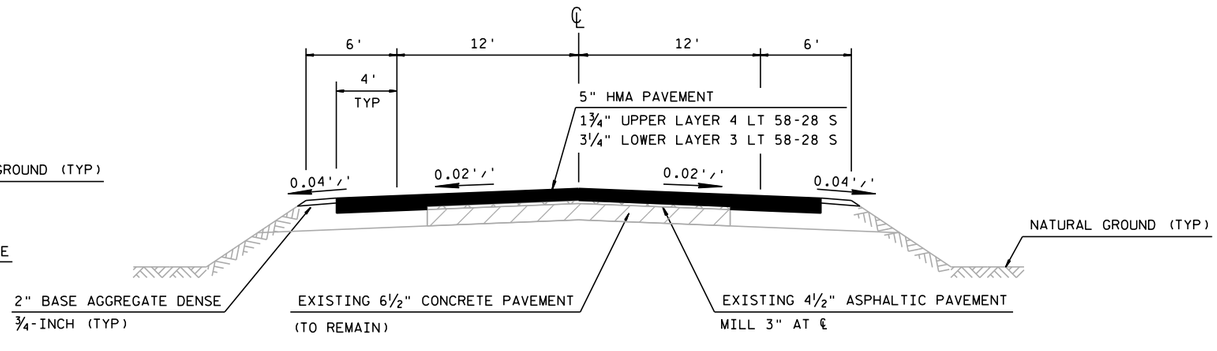
½ TYPICAL FINISHED CROSS SECTION FOR STH 144

435+65 - 439+00 LT



TYPICAL FINISHED CROSS SECTION FOR STH 144

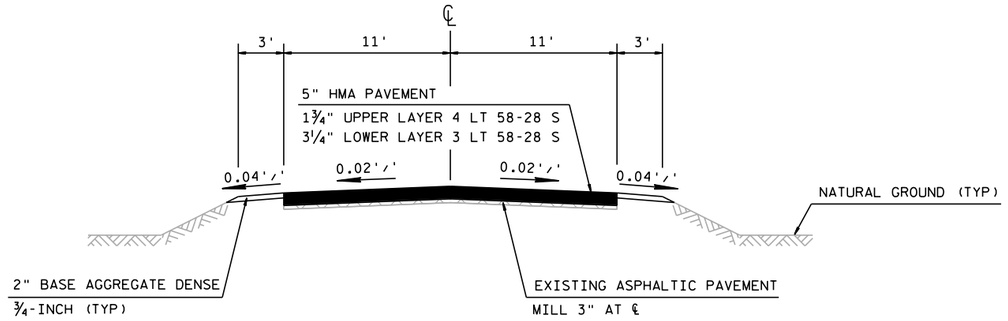
465+62 - 513+11



TYPICAL FINISHED CROSS SECTION FOR STH 144

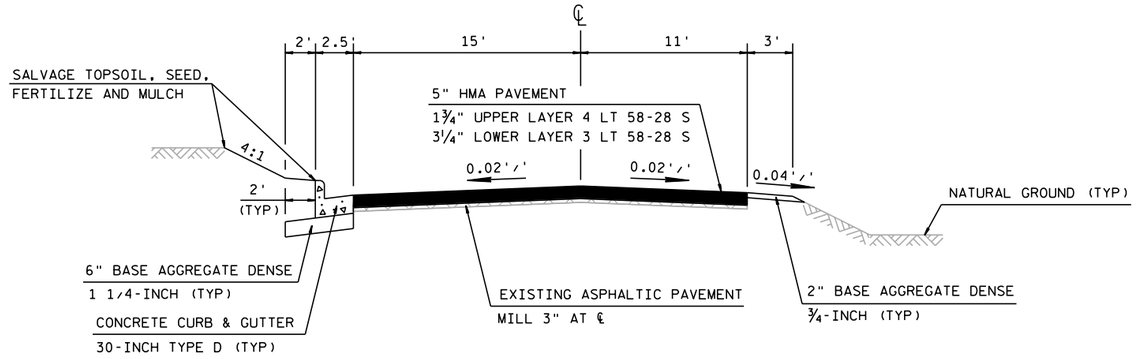
513+11 - 560+23

PROJECT NO:6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	TYPICAL CROSS SECTIONS	SHEET	E



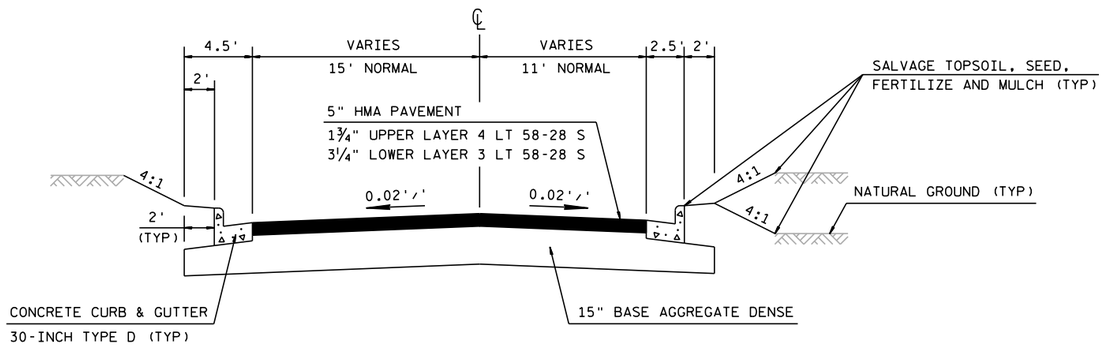
TYPICAL FINISHED CROSS SECTION FOR CTH DE

STA 87+27 - 87+77



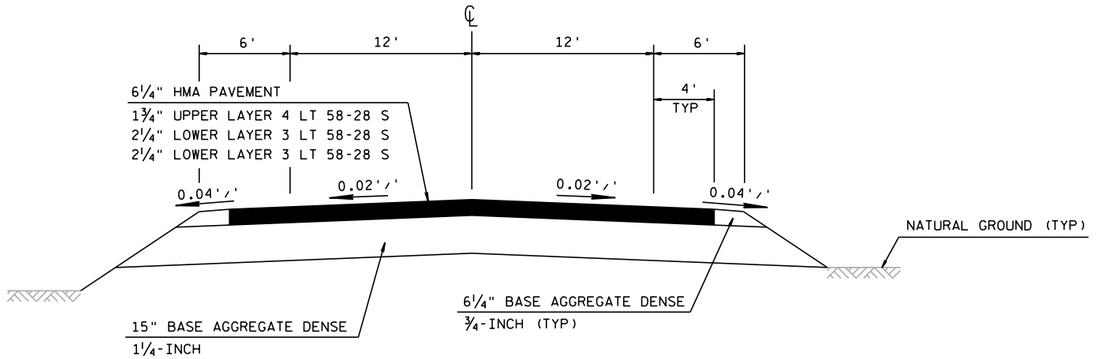
TYPICAL FINISHED CROSS SECTION FOR CTH DE

STA 87+77 - 89+37



TYPICAL FINISHED CROSS SECTION FOR CTH DE

STA 89+37 - 89+87



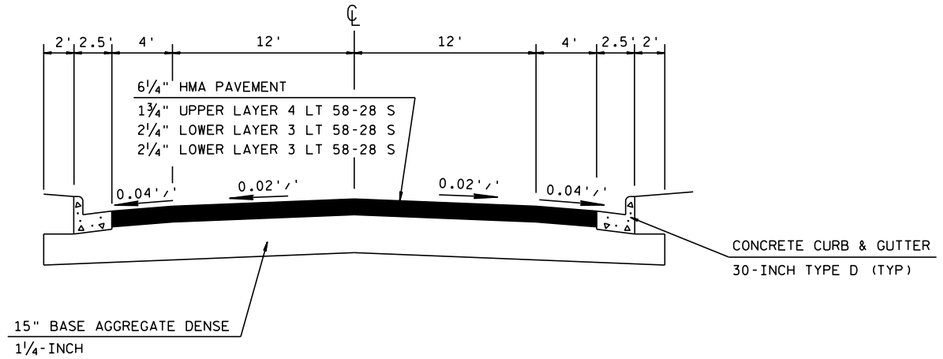
TYPICAL FINISHED CROSS SECTION FOR CULVERT REPLACEMENT

281+48
299+00
301+16
382+87
403+27
424+01
447+23
448+89
449+42
532+63

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	TYPICAL CROSS SECTIONS	SHEET	E

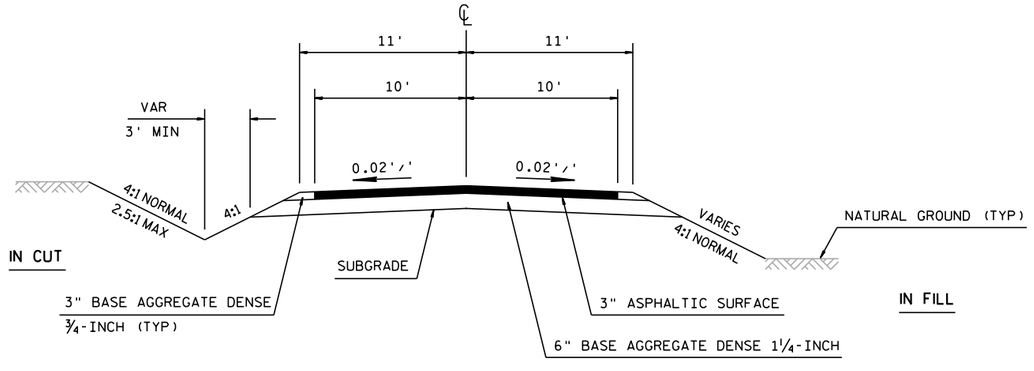
FILE NAME : F:\d3_652506\020302_ts.dgn PLOT DATE : 27-OCT-2016 09:34 PLOT BY : dotmzc PLOT NAME : 020302 tsC PLOT SCALE : 10:1

2



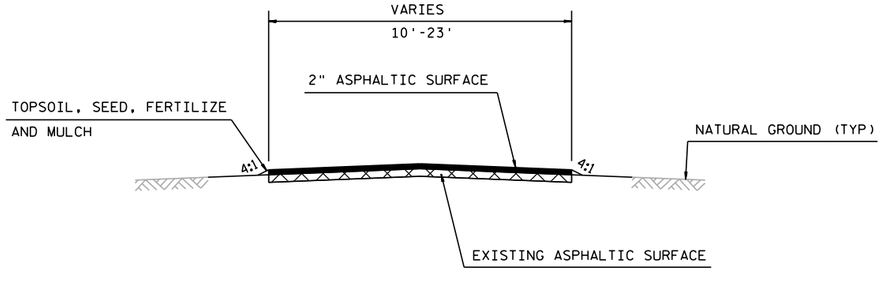
TYPICAL FINISHED CROSS SECTION FOR STORM SEWER LATERALS

306+81
309+53
311+70
313+88
316+04
316+32
317+46
318+85
321+84
325+04
328+84
332+74
342+69



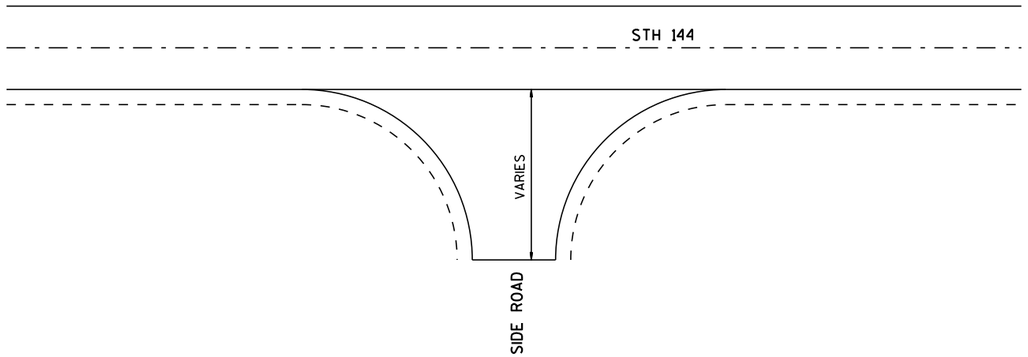
TYPICAL FINISHED CROSS SECTION FOR PRIVATE ENTRANCE

STA 464+52.91



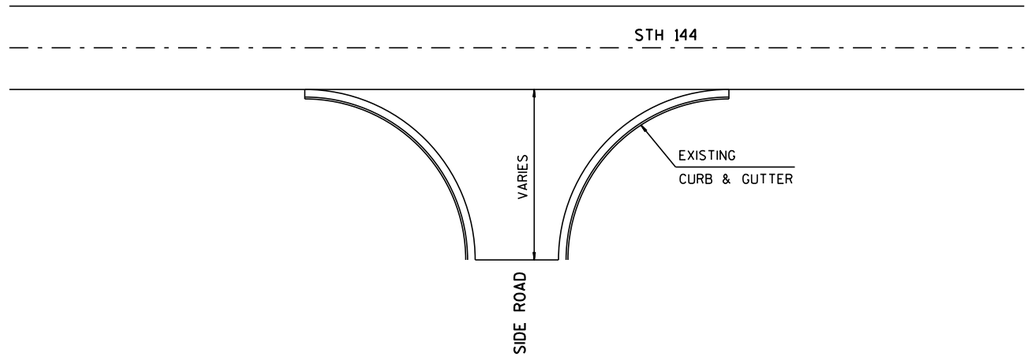
TYPICAL FINISHED CROSS SECTION FOR WAYSIDE

PROJECT NO:6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	TYPICAL CROSS SECTIONS	SHEET	E



RURAL SIDE ROAD PAVING LIMITS

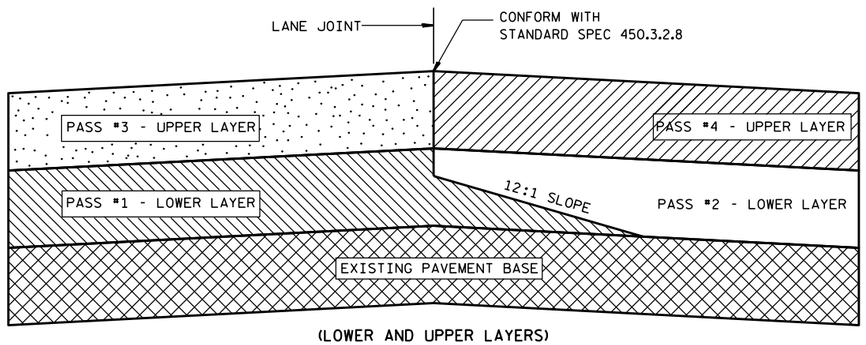
CAMP AWANA ROAD (NORTH)
CAMP AWANA ROAD (SOUTH)



SIDE ROAD PAVING LIMITS WITH CURB & GUTTER

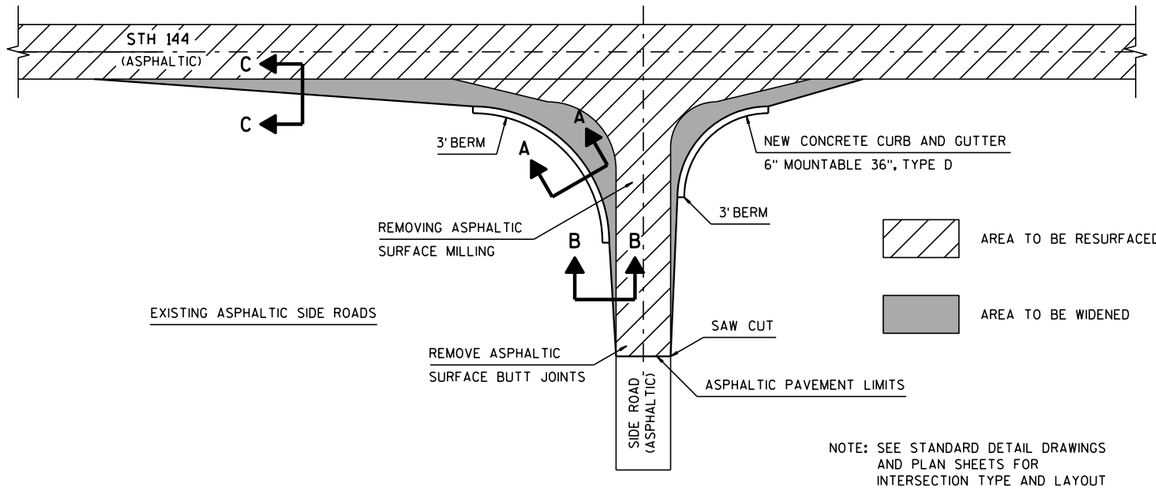
CTH K
CARROLL STREET
STARK ROAD

2

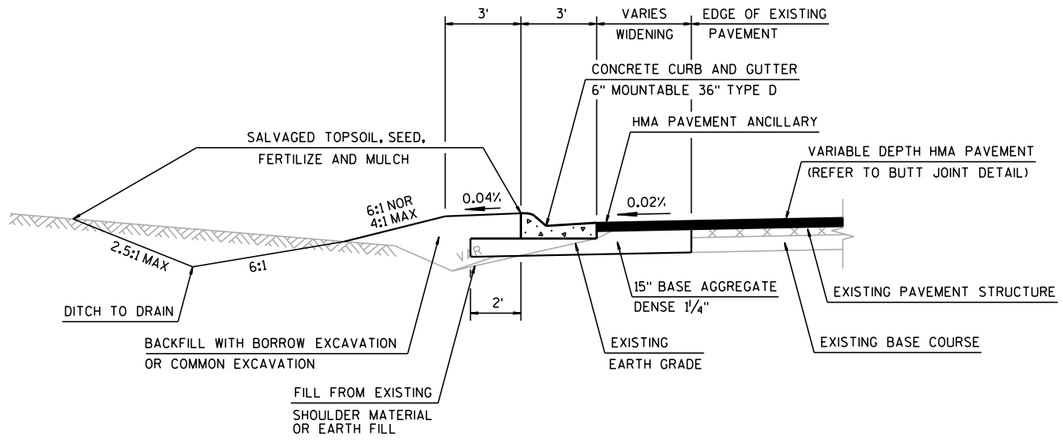


(LOWER AND UPPER LAYERS)

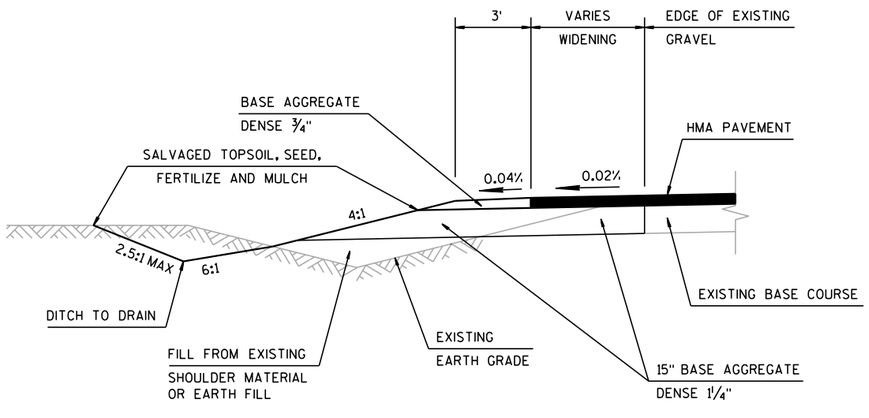
TYPICAL PAVEMENT CROSS SECTION OF LONGITUDINAL JOINTS



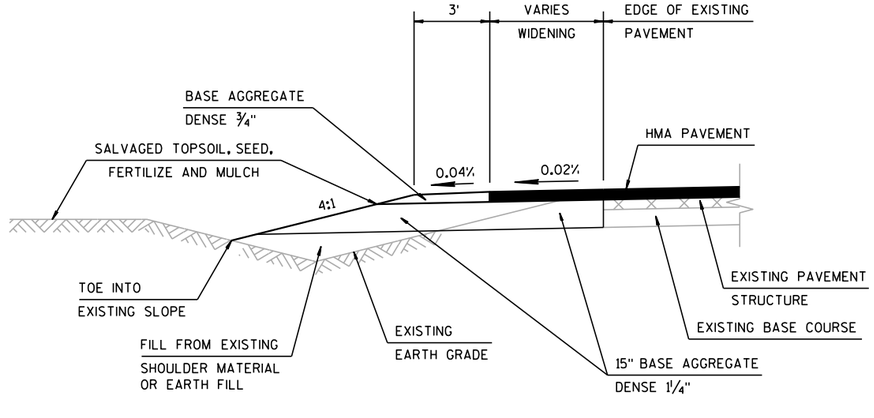
GRADING INTERSECTIONS IN TYPE B OR D INTERSECTIONS



BERM DETAIL FOR INTERSECTION WIDENING IN RESURFACING SECTIONS
(A-A SECTION)

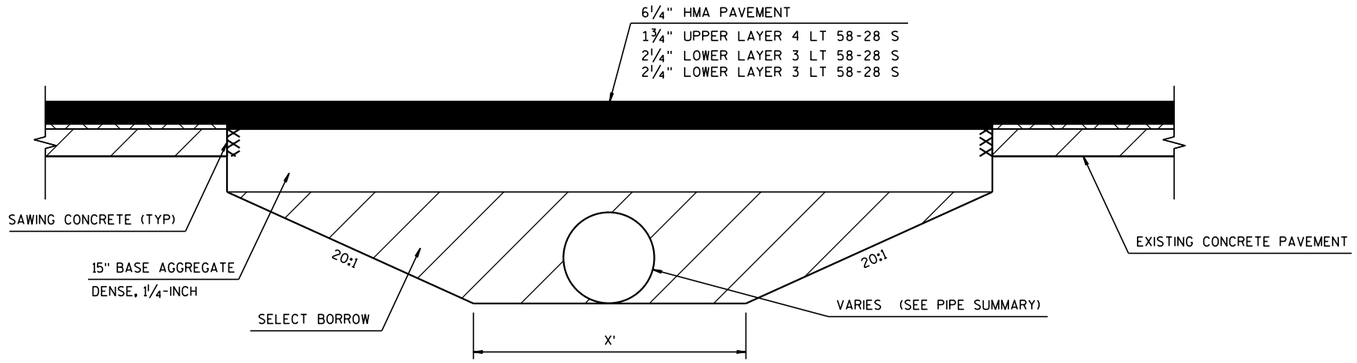


SECTION FOR WIDENING SIDE ROAD INTERSECTIONS AND TAPERS
(B-B SECTION)



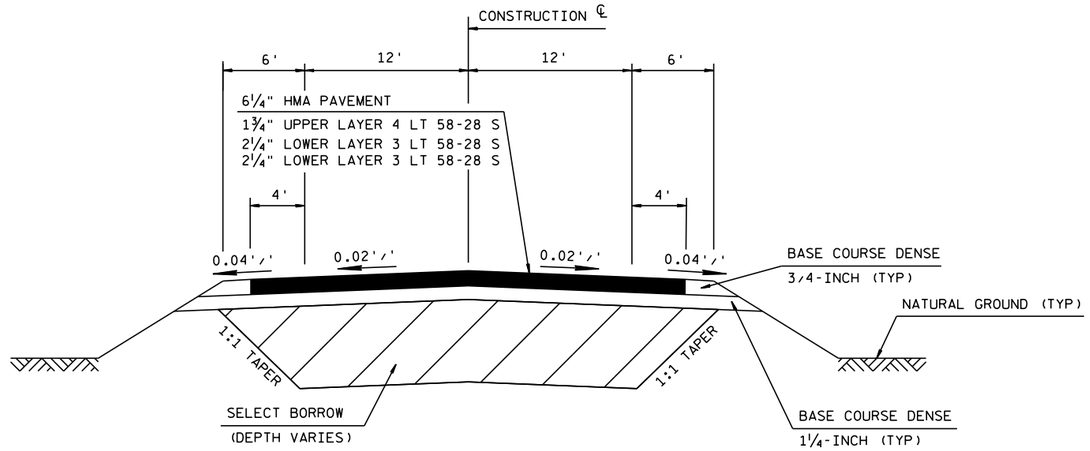
SECTION FOR WIDENING ALONG MAINLINE TAPERS
(C-C SECTION)

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS	SHEET	E



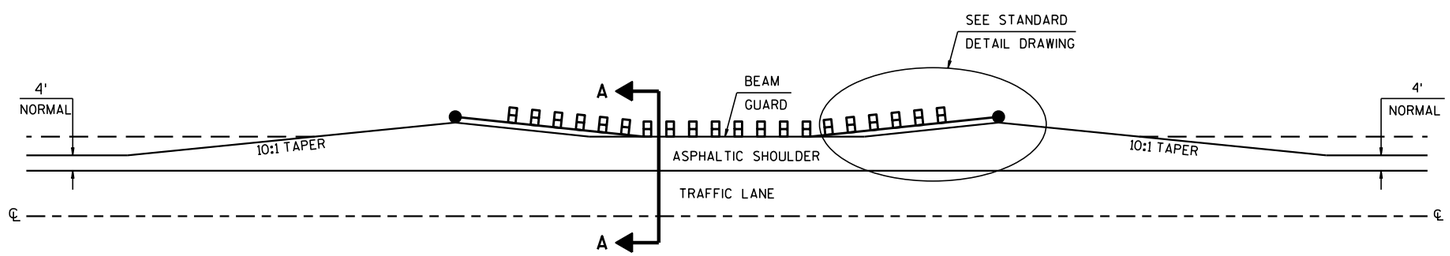
LONGITUDINAL SECTION

NOTE: EXCAVATE TO CULVERT FLOW LINE IF PRESENT OR 5' FROM FINISH SURFACE WHICHEVER IS LESS.

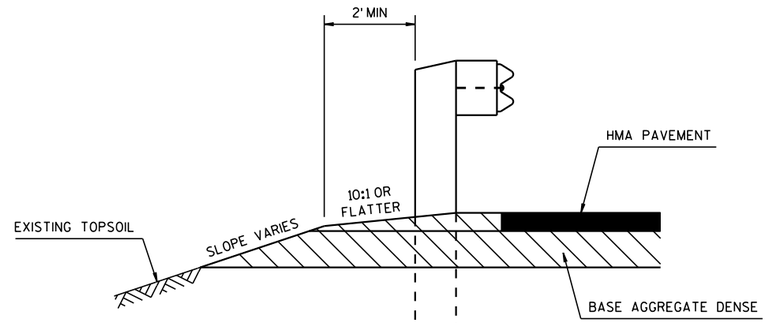


CROSS SECTION

DETAIL FOR FROST HEAVE REPAIR



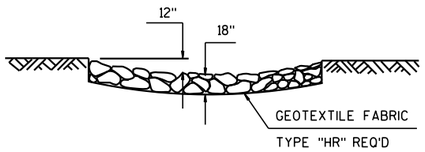
DETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL



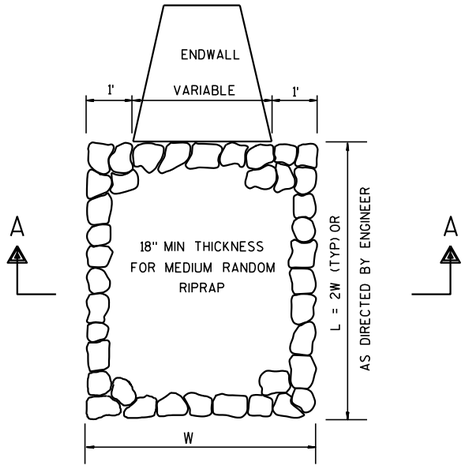
SECTION A-A

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS	SHEET	E

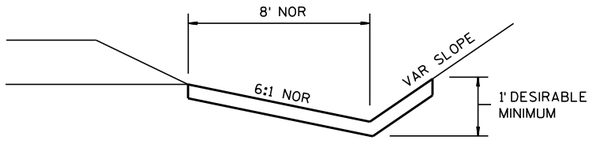
2



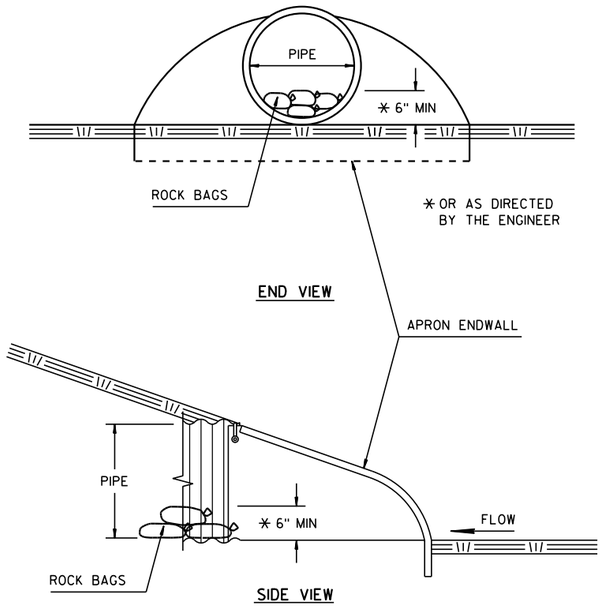
SECTION A-A



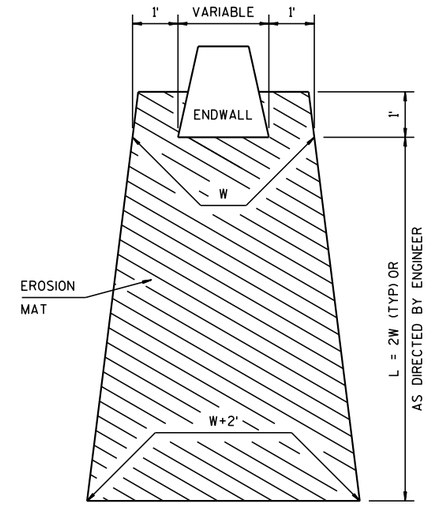
MEDIUM RANDOM RIPRAP TREATMENT AT CULVERTS



EROSION MAT DETAIL FOR DITCHES

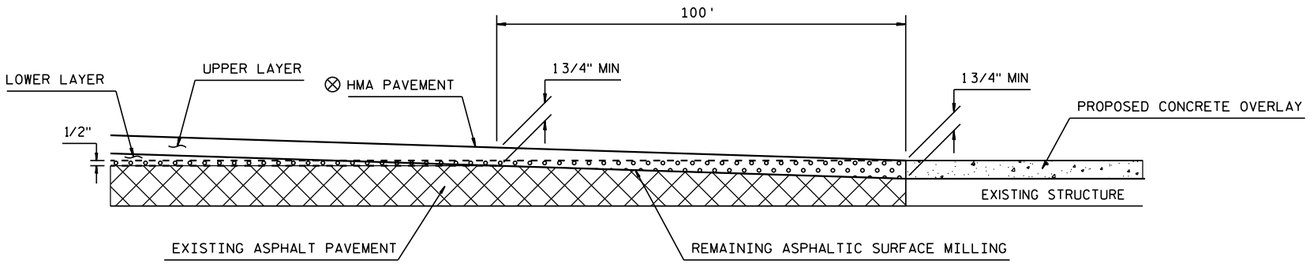


CULVERT PIPE CHECKS

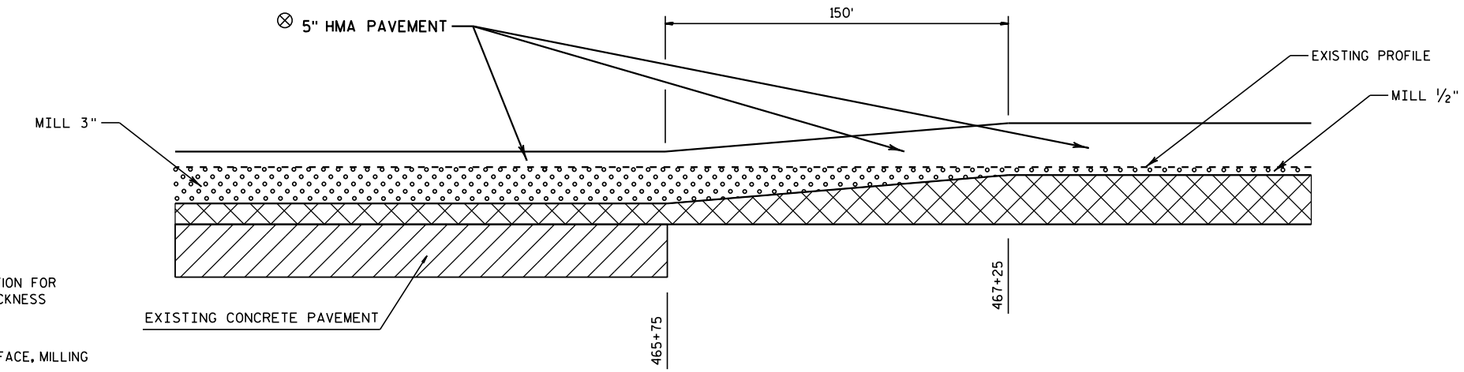


EROSION MAT TREATMENT AT CULVERTS

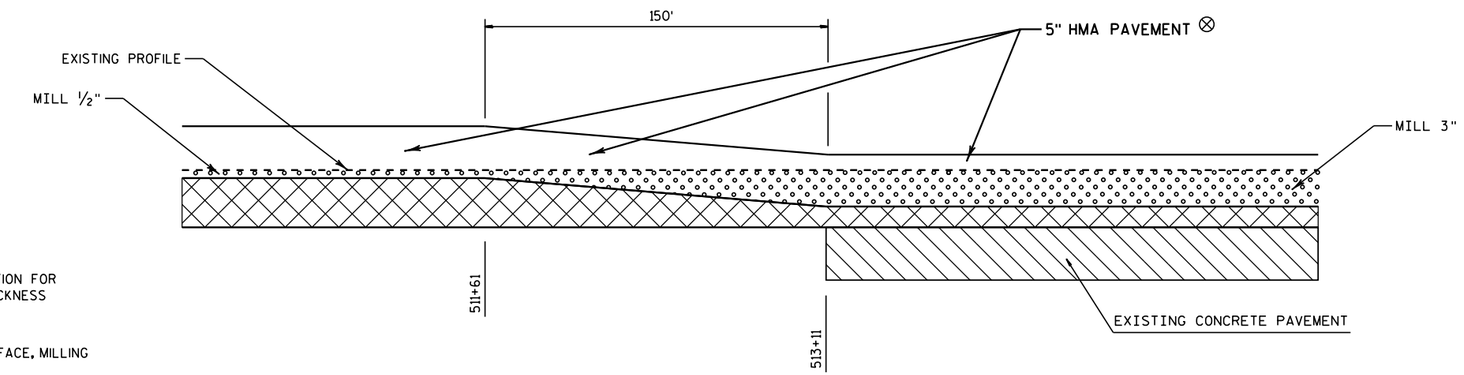
PROJECT NO:6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS	SHEET	E



DETAIL FOR MAINLINE PAVING AT STRUCTURE B-59-104

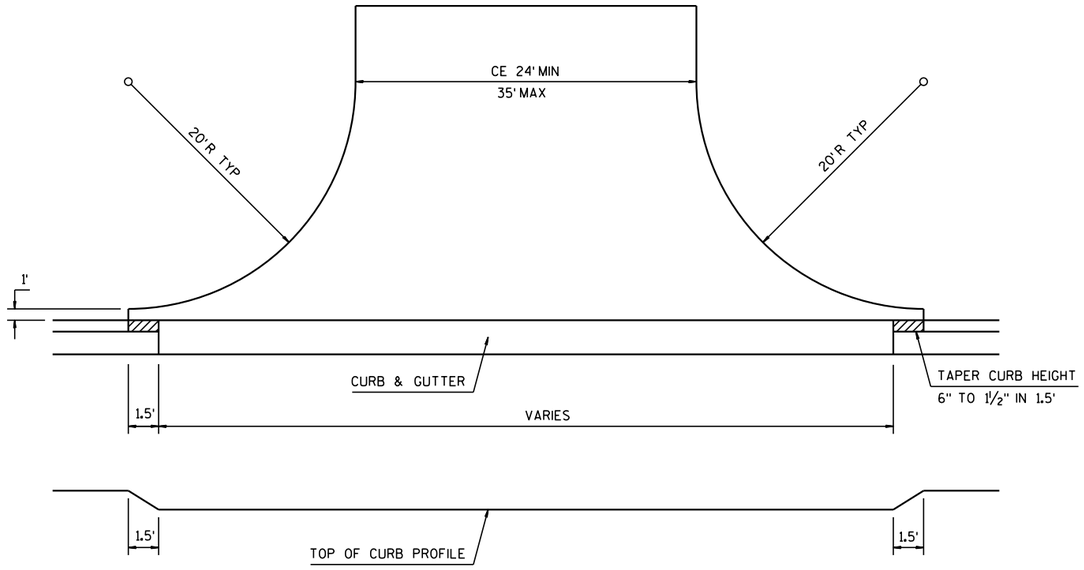


DETAIL FOR MILLING AND PAVING DEPTH TRANSITION



DETAIL FOR MILLING AND PAVING DEPTH TRANSITION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS	SHEET	E



COMMERCIAL ENTRANCES

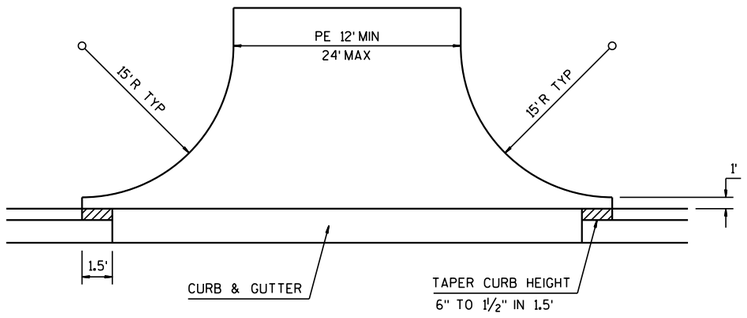
NOTE: NON-PAVED DRIVEWAYS SHALL CONSIST OF 6" OF BASE AGGREGATE DENSE.

RESIDENTIAL ENTRANCE ASPHALTIC DRIVEWAYS SHALL CONSIST OF 6" BASE AGGREGATE DENSE AND 3" OF ASPHALTIC PAVEMENT.

COMMERCIAL ENTRANCE ASPHALTIC DRIVEWAYS SHALL CONSIST OF 12" BASE AGGREGATE DENSE AND 4" OF ASPHALTIC PAVEMENT.

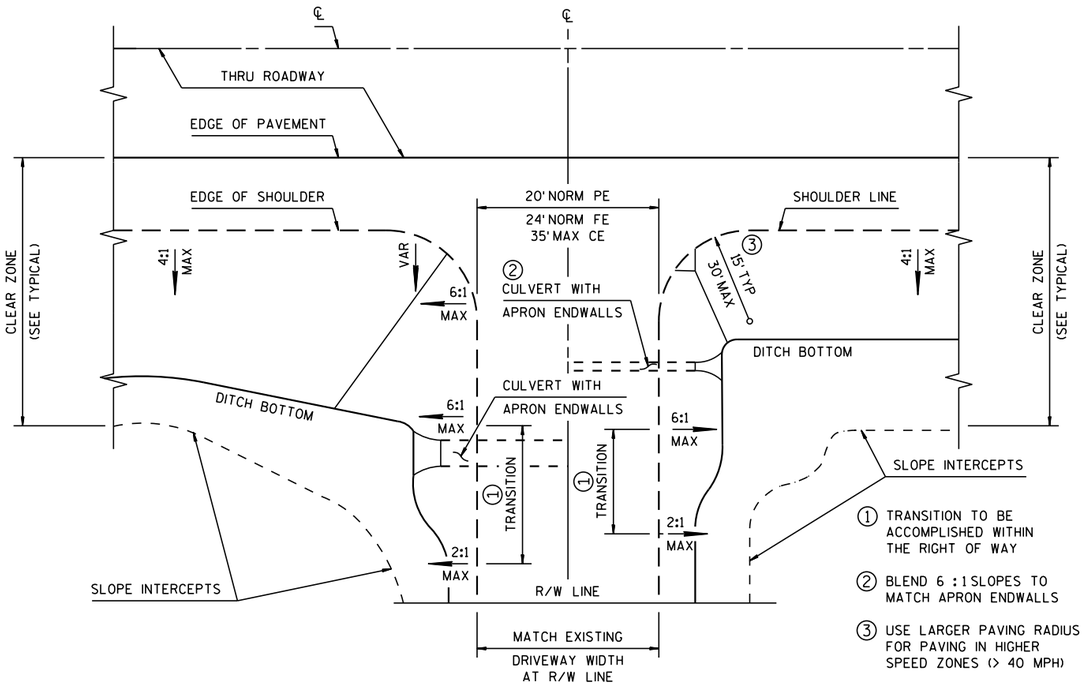
6" CONCRETE DRIVEWAY FOR RESIDENTIAL ENTRANCES.

(1) A LARGER PAVING RADIUS FOR PAVING IN HIGHER SPEED ZONE (> 40 MPH) CAN BE USED IF WARRANTED.



PRIVATE ENTRANCES

RURAL DRIVEWAYS WITH CURB & GUTTER

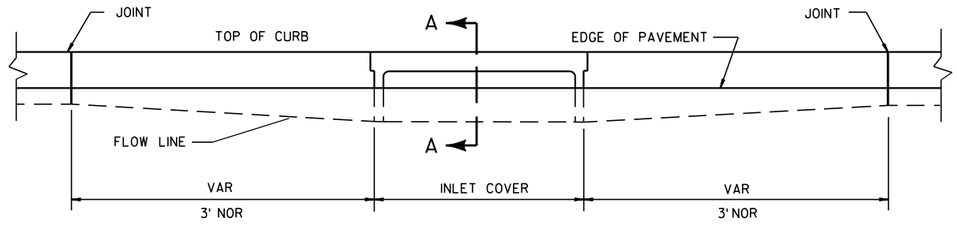


FOR CULVERTS OVER 24" DIAMETER

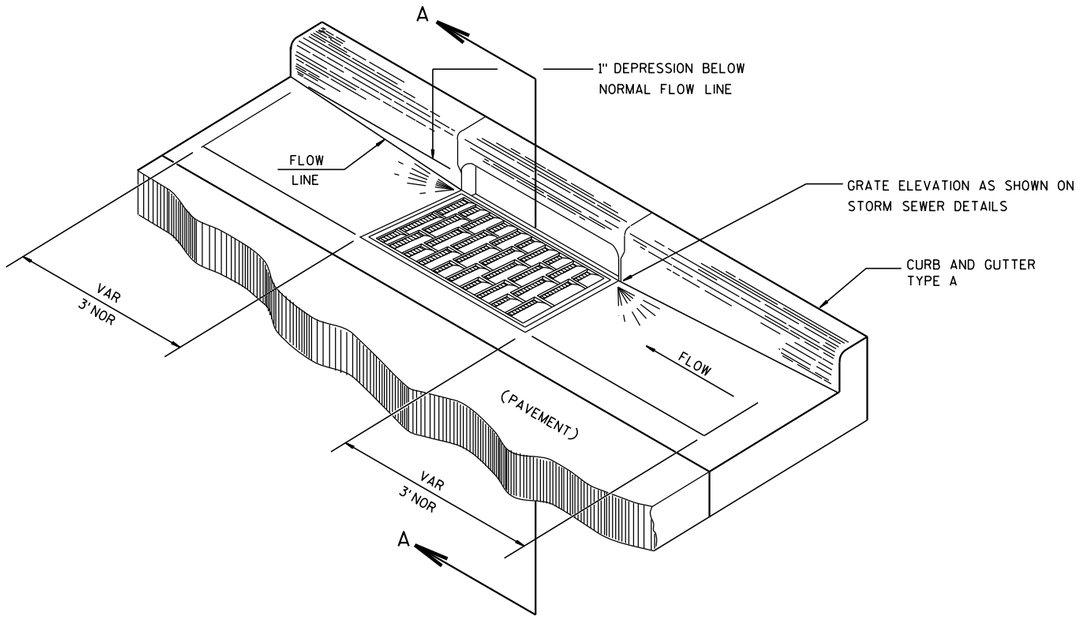
FOR CULVERTS 24" DIAMETER & LESS

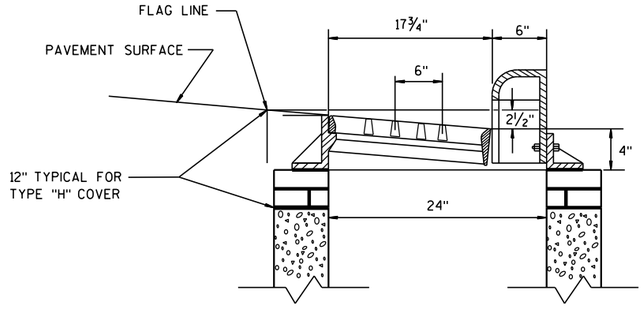
PLAN VIEW

RURAL DRIVEWAY GRADING AND/OR PAVING DETAIL



ELEVATION

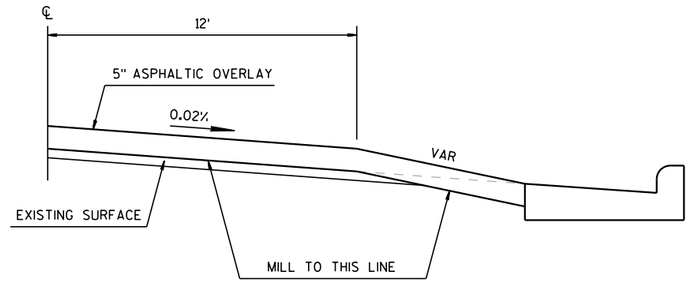




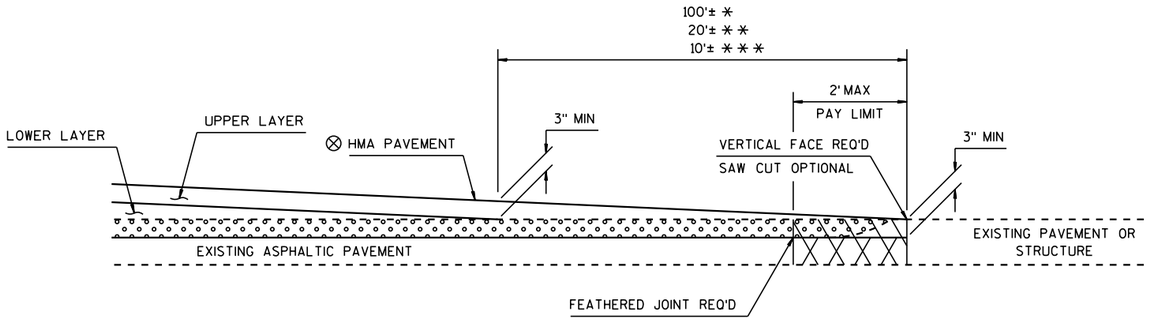
SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS

(TYPE 3-H INLET SHOWN)



BUTT JOINT DETAIL FOR CURB & GUTTER



⊗ SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

REMOVING ASPHALTIC SURFACE, MILLING

REMOVING ASPHALTIC SURFACE, BUTT JOINTS (FULL DEPTH REMOVAL OPTIONAL)

ASPHALTIC WEDGING (FULL DEPTH REMOVAL OPTION)

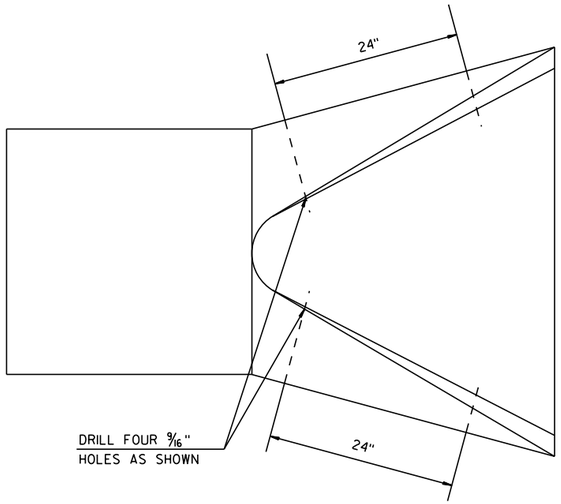
BUTT JOINT DETAIL FOR MILLED ASPHALTIC PAVEMENTS

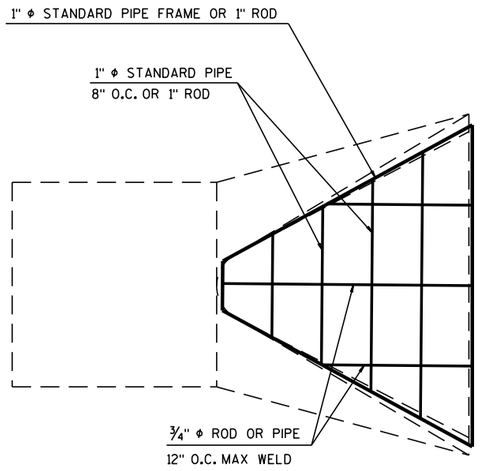
* MAINLINE

** SIDEROADS

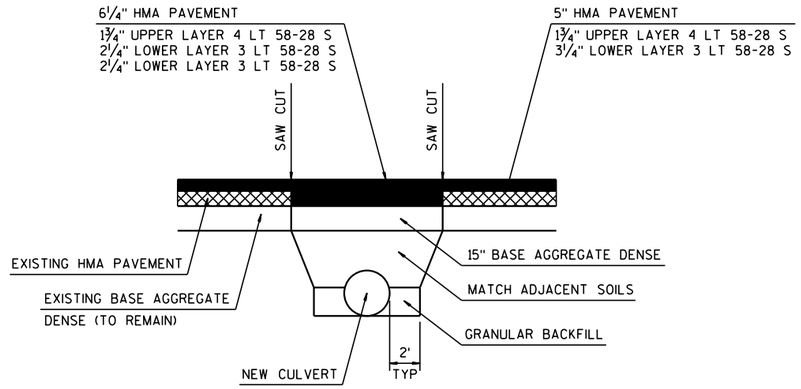
*** PRIVATE ENTRANCES

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS	SHEET	E

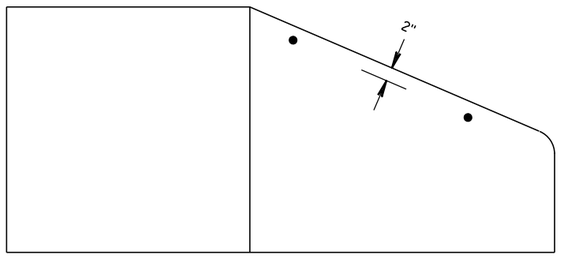


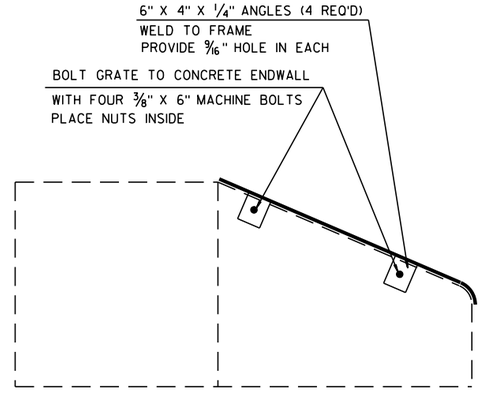


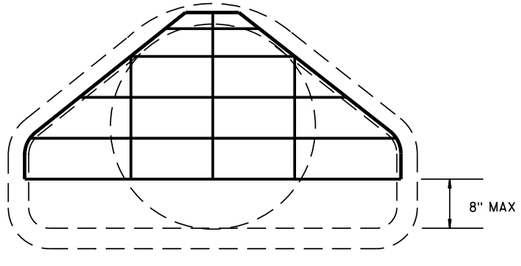
AT EACH PIPE



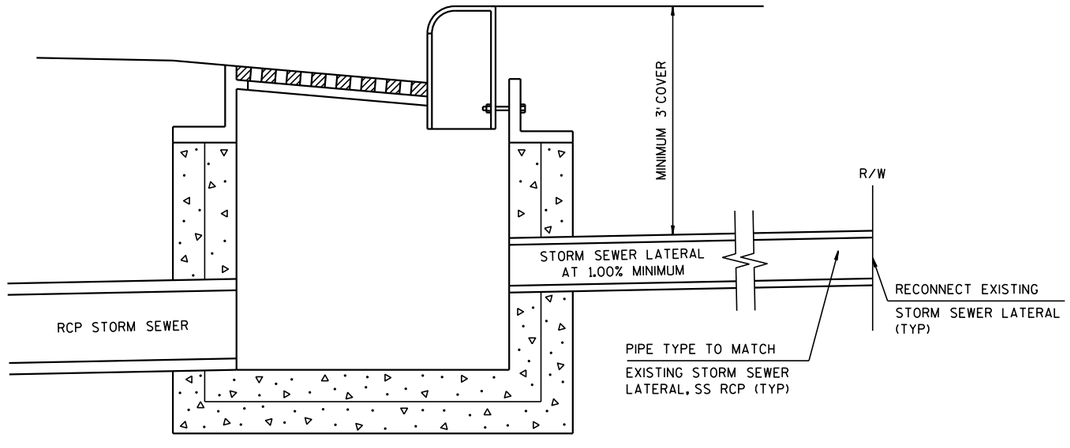
DETAIL FOR CULVERT REPLACEMENT







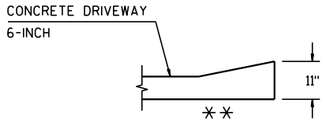
PIPE GRATE DETAIL



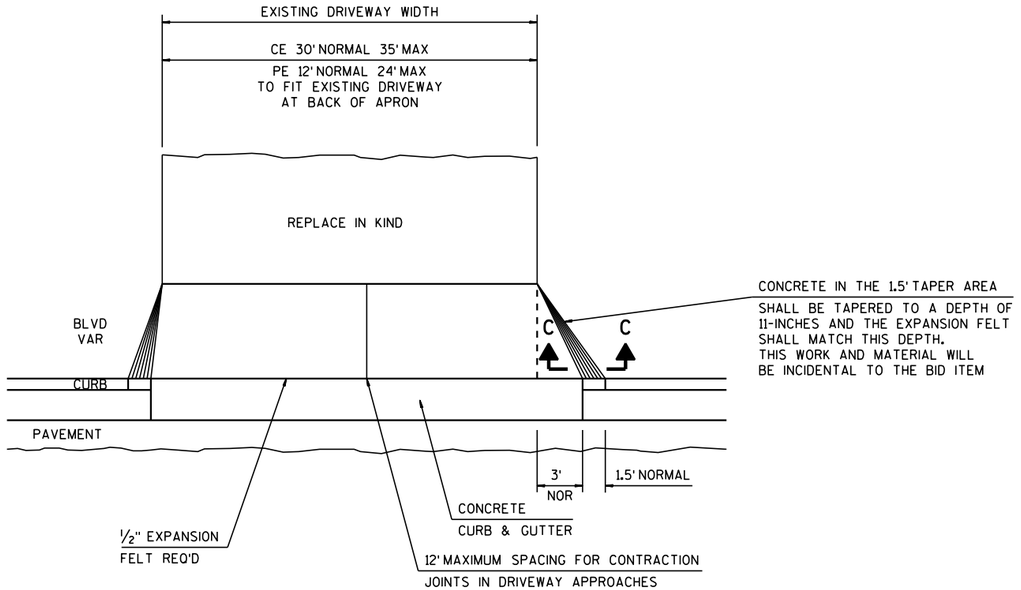
NOTE: ALL LABOR AND MATERIALS NECESSARY FOR CONNECTION TO STORM SEWER SHALL BE INCIDENTAL TO THE BID ITEM OF RECONNECT STORM SEWER LATERALS.

RECONNECT STORM SEWER LATERAL DETAIL

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS	SHEET	E



SECTION C-C



PLAN VIEW

① 6" CONCRETE DRIVEWAY OR HES CONCRETE DRIVEWAY

② 6" BASE AGGREGATE DENSE 1¼-INCH

③ 4" BASE AGGREGATE DENSE 1¼-INCH BASE WITH 2" ASPHALTIC SURFACE

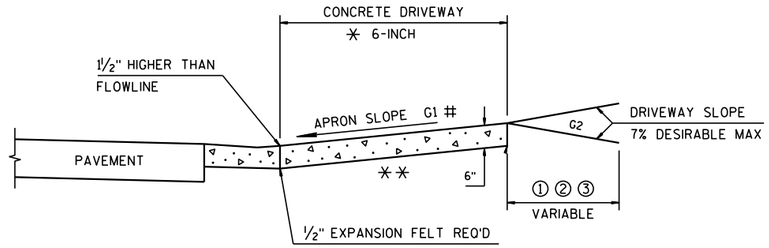
* 8-INCH WHERE NOTED IN PLAN

** 6" BASE AGGREGATE DENSE 1¼-INCH REQ'D UNDER CONCRETE DRIVEWAY

\#

TERRACE WIDTH	APRON SLOPE G1	
	MIN %	DESIRABLE %
3 FT	7.0	8.5
4 FT	5.0	7.0
5 FT	4.0	7.0
6 FT	4.0	7.0
7 FT	3.5	7.0
8 FT	3.5	7.0

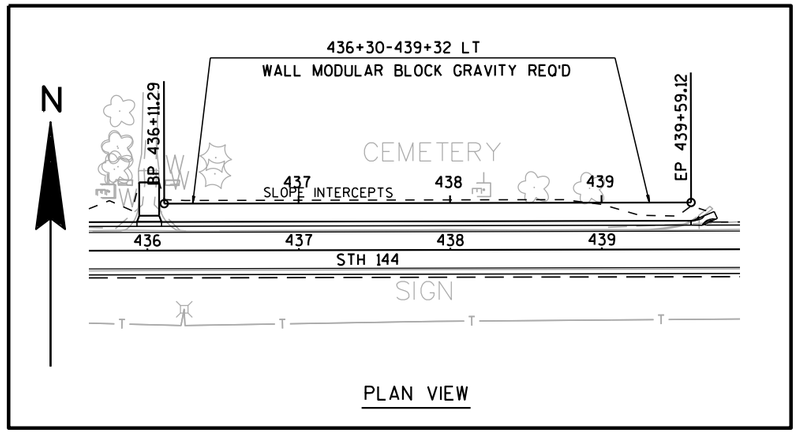
NOTE: ALBEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 10% DESIRABLE MAX.



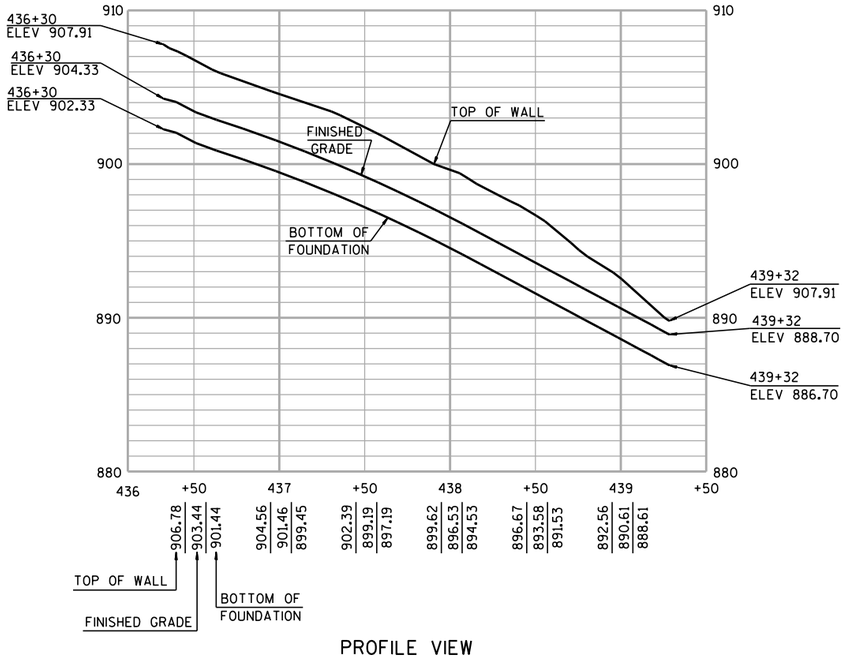
TYPICAL APRON SECTION

DRIVEWAY ENTRANCE DETAIL WITH CURB & GUTTER

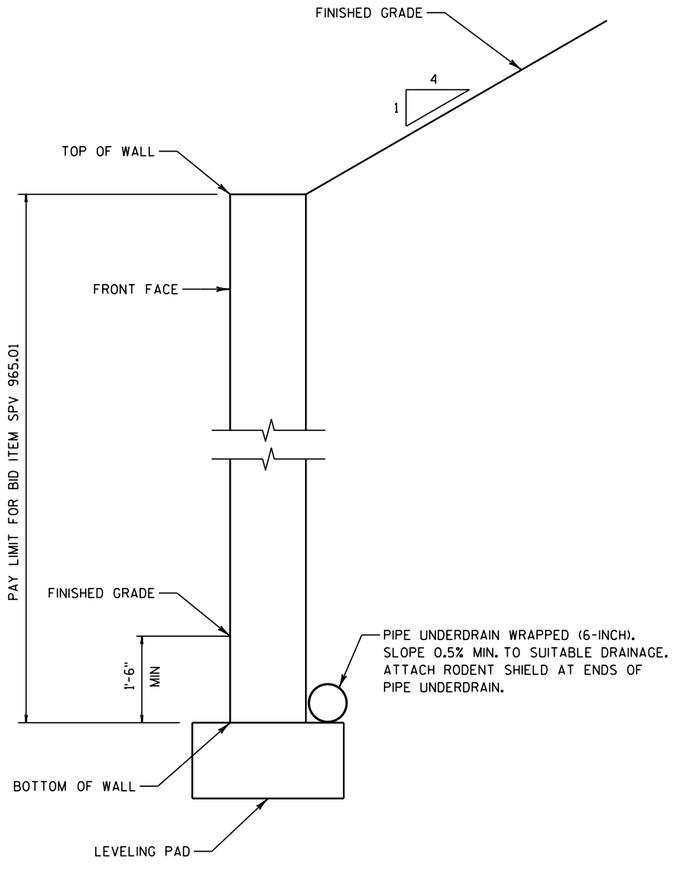
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS	SHEET	E



PLAN VIEW



PROFILE VIEW



TYPICAL CROSS SECTION OF RETAINING WALL

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM SPV. 0165.01

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

DESIGN NOTES

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS DETAILS SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK GRAVITY".

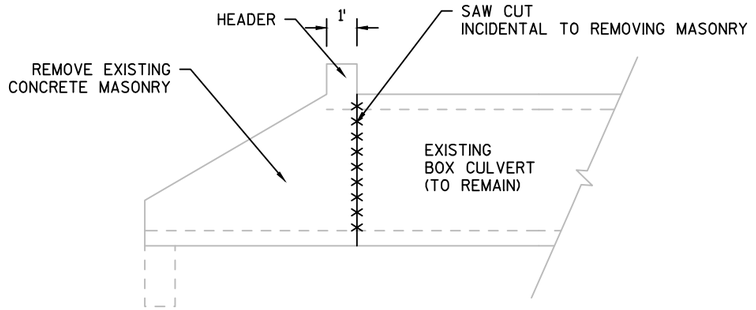
THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THE THIS SHEET UNLESS OTHERWISE ADVISED BY THE FIELD ENGINEER.

GENERAL NOTES

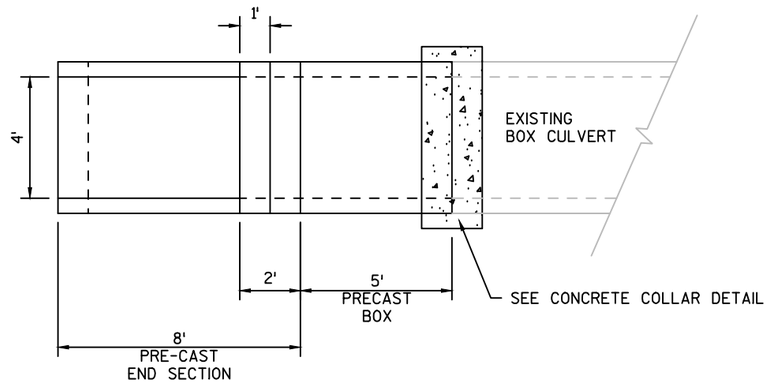
DRAWINGS SHALL NOT BE SCALED.

THE PLAN QUANTITY FOR THE BID ITEM SPV. 0165.01 IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

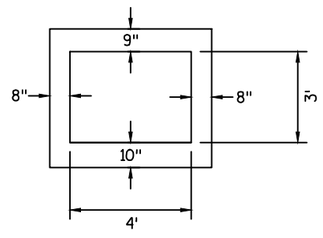
2



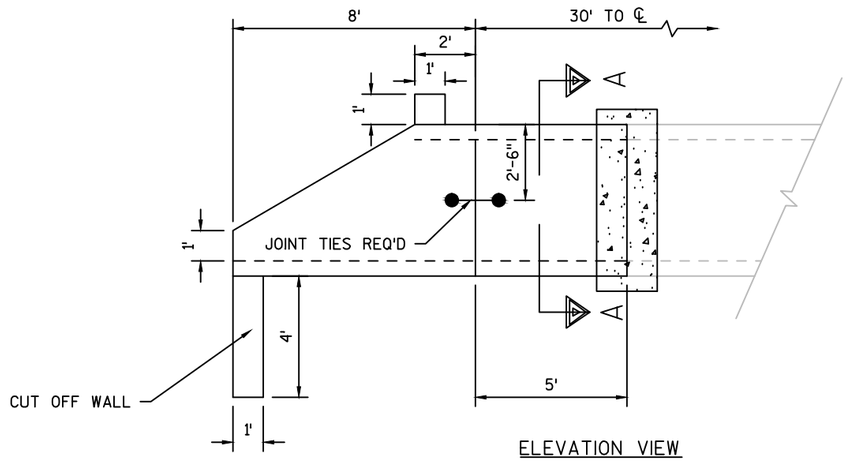
EXISTING SIDE VIEW



TOP VIEW



SECTION A-A



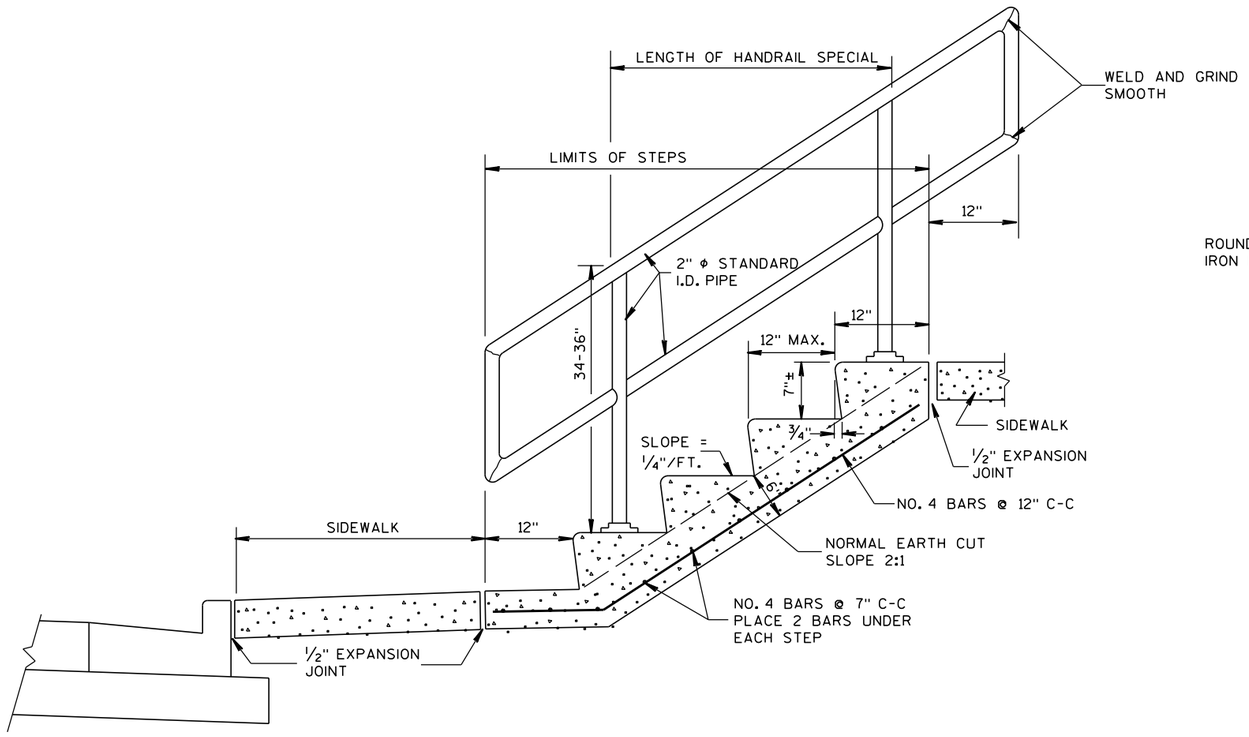
ELEVATION VIEW

PRE-CAST BOX EXTENSION & END SECTION DETAIL

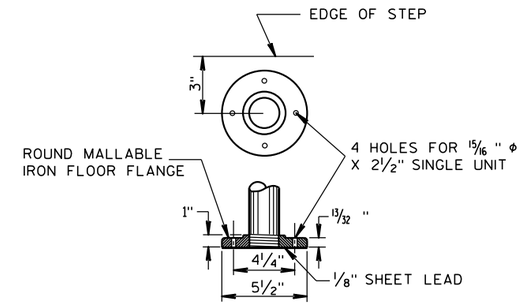
STA 513+11

PROJECT NO:6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS	SHEET 19	E

2



CONCRETE STEPS DETAIL



FLANGE DETAIL

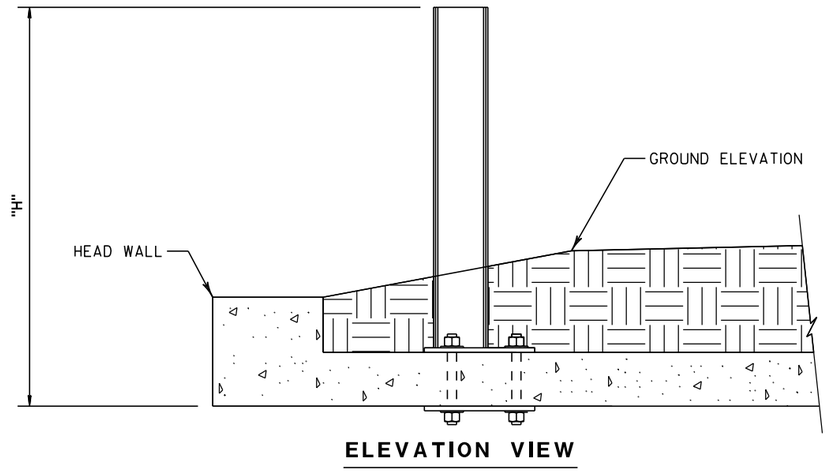
NOTE:

THE EXACT LOCATION, WIDTHS, & NUMBER OF STEPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STEEL REINFORCEMENT AND PIPE RAILING NOT REQUIRED ON STEPS WITH 2 RISERS OR LESS.

MINIMUM WIDTH OF STEP EQUALS 4 FEET.

RAILING TO BE PLACED ON LEFT ASCENDING SIDE OF STEPS ONLY.



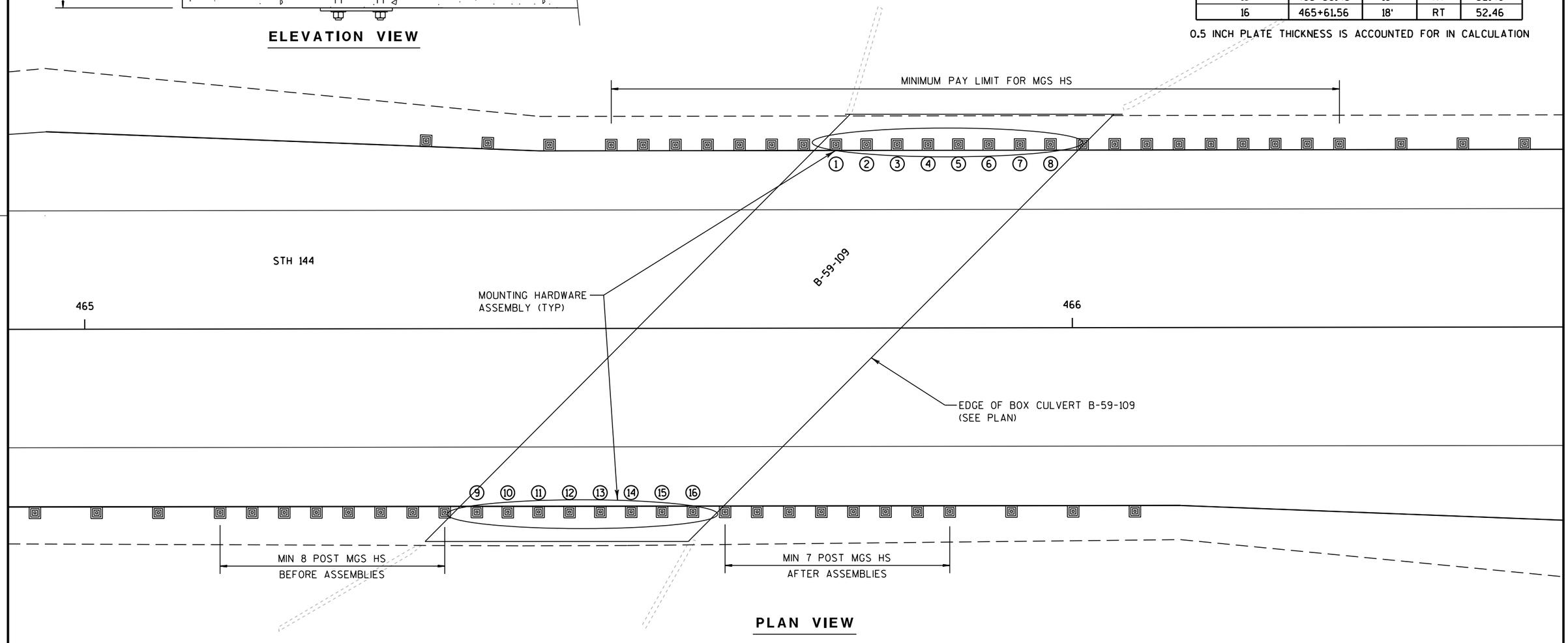
ELEVATION VIEW

NOTE: CONTRACTOR SHALL FIELD VERIFY
STATION LOCATION AND "H" MEASUREMENT.

N

POST NUMBER	STATION	OFFSET	SIDE	"H" INCH
1	465+76.09	18'	LT	53.19
2	465+79.19	18'	LT	53.18
3	465+82.29	18'	LT	53.31
4	465+85.41	18'	LT	53.31
5	465+88.49	18'	LT	53.31
6	465+91.57	18'	LT	53.43
7	465+94.70	18'	LT	53.43
8	465+97.82	18'	LT	53.43
9	465+39.68	18'	RT	52.22
10	465+42.81	18'	RT	52.22
11	465+45.93	18'	RT	52.34
12	465+49.06	18'	RT	52.34
13	465+52.18	18'	RT	52.34
14	465+55.31	18'	RT	52.46
15	465+58.43	18'	RT	52.46
16	465+61.56	18'	RT	52.46

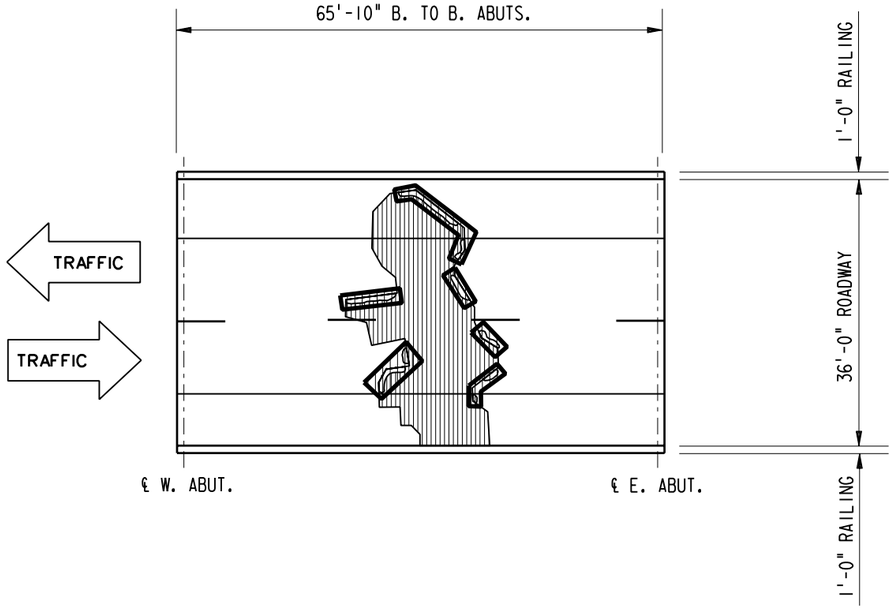
0.5 INCH PLATE THICKNESS IS ACCOUNTED FOR IN CALCULATION



PLAN VIEW

ANCHOR ASSEMBLY TOP MOUNTED FOR MGS HS

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CONSTRUCTION DETAIL (B-59-109 BEAM GUARD)	SHEET	E



PLAN

PROPOSED REHAB AREAS

FIELD OBSERVATIONS SUMMARY		STRUCTURE NO. B-59-143	
ITEM	UNIT	QUANT.	%
TOTAL AREA	yd^2	277.8	
SHADE/DEBRIS	yd^2	0	
PREPARATION, DECKS, TYPE 1	yd^2	11.3	4.1
PREPARATION, DECKS, TYPE 2	yd^2	8.5	3.1
FULL DEPTH DECK REPAIR	yd^2	6.4	2.3

LEGEND

DECK PREPARATION AREA

SHADE/DEBRIS

DELAMINATION
SPALL
DEBOND
ASPHALT PATCH
CONCRETE PATCH

N

SCALE 0' 5' 10' 20'

SURFACE TYPE: CONCRETE - NO OVERLAY
INFRARED INSPECTION DATE: 11/13/07

NO	REVISIONS	DRN	CHK	DATE

DATA COL TC
ANALYSIS TC
CADD TC
CHECKED DS

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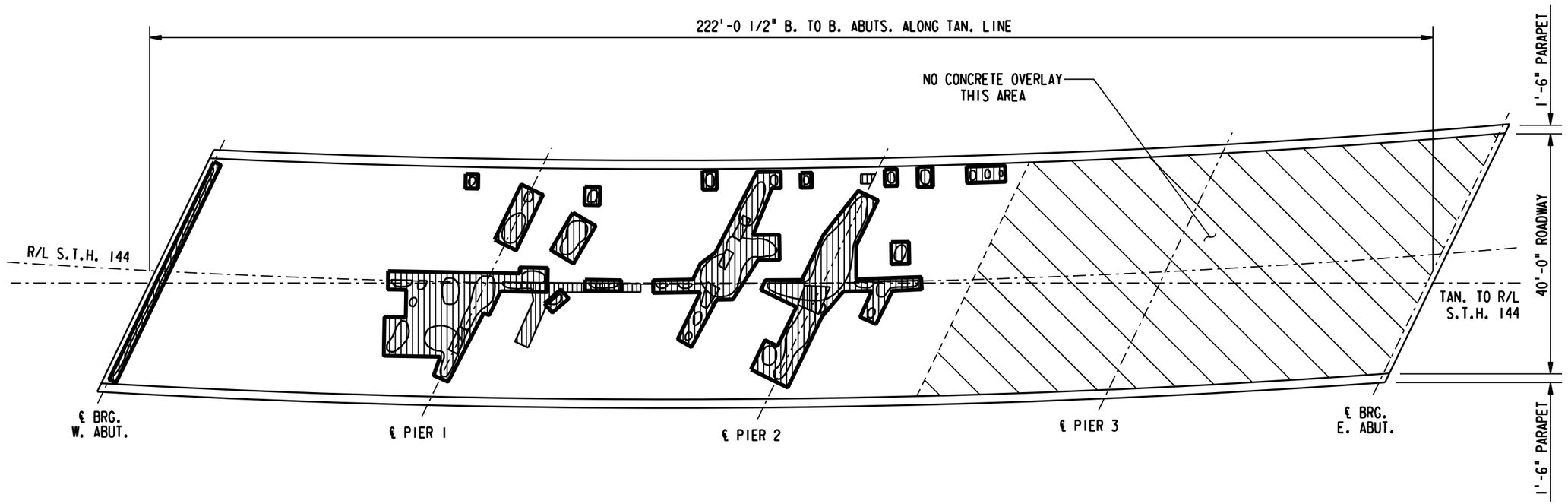
A Tyco International Ltd. Company

PROPOSED REHABILITATION AREAS FOR
STH 144 OVER N. BR. MILWAUKEE RIVER
STRUCTURE NO. B-59-143

PREPARED FOR
WISCONSIN DEPARTMENT OF TRANSPORTATION
NORTHEAST REGION

DATE 12/27/07
PROJECT NO 102904
FILENAME 59-143-07-REHAB.DGN
SHEET NO 1 OF 1
DRAWING NO



PLAN

PROPOSED REHAB AREAS

N

S. N. B-59-104

REHABILITATION AREA SUMMARY		ROADWAY	
ITEM	UNIT	QUANT.	%
TOTAL AREA	yd^2	1063.2	
SHADE/DEBRIS	yd^2	0	
PREPARATION, DECKS, TYPE 1	yd^2	109.4	10.3
PREPARATION, DECKS, TYPE 2	yd^2	76.6	7.2
FULL DEPTH DECK REPAIR	yd^2	1.0	<0.1

LEGEND

DECK PREPARATION AREA

SHADE/DEBRIS

DELAMINATION
SPALL
DEBOND
ASPHALT PATCH
CONCRETE PATCH

SCALE 0' 5' 10' 20'

SURFACE TYPE: CONCRETE AND CONCRETE OVERLAY
INFRARED INSPECTION DATE: 9/16/13

NO	REVISIONS	DRN	CHK	DATE

DATA COL TC/DS
ANALYSIS TC
CADD DS
CHECKED DU

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AECOM

PROPOSED REHABILITATION AREAS FOR S.T.H. 144 OVER ALLEN ROAD STRUCTURE NO. B-59-104

PREPARED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHEAST REGION

DATE 9/27/13
PROJECT NO 60308021
FILENAME B-59-104-REHAB.DGN
SHEET NO 1 OF 1
NO

...\CADD\B-59-104-REHAB.DGN 9/27/2013 1:59:54 PM

N

BEGIN RESURFACING PROJECT
STA 201+00
SAWING ASPHALT REQ'D

PAVEMENT MARKING EPOXY
4-INCH (YELLOW)

200+55.5
17.75' LT

25' C-C
(TYP)

45°

201+01
20.00' LT

200+99.3
4.73' LT

REMOVE EXISTING
ASPHALTIC SURFACE

SAWING REQ'D
(TYP)

202+36
16' LT

202+75
16' LT

STA 203+99 LT & RT
BEGIN ASPHALT BASE WIDENING

EXISTING R/W

STA 200+00 STH 144 =
STA 163+84 STH 28

BEGIN PROJECT 6525-06-71
STA 200+44

STH 144

STH 28

+44.58

201+49

12'

+36

PAVEMENT MARKING EPOXY
12-INCH (YELLOW DIAGONAL) (TYP)

PAVEMENT MARKING EPOXY
4-INCH (DOUBLE YELLOW)

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

200 201 202 203 204 205

162 163 164 165

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	INTERSECTION DETAIL (STH 28)	SHEET	E

2

N

LONE PINE ROAD

PI STATION = 20+89.65
PI X,Y = 123960.03, 106324.42
DELTA = 9°40'47"
DEGREE = 12°37'03"
TANGENT = 38.45
LENGTH = 76.72
RADIUS = 454.10
PC STATION = 20+51.20
PT STATION = 21+27.91

MODIFIED TYPE D INTERSECTION

PT 21+99.97

STA 20+96
(SAWING ASPHALT REQ'D)

STA 20+48
1-18"x98' CPCS CLASS III

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH
TYPE D (TYP)

ASPHALTIC FLUME
(TYP)

PC 20+64.70

STA 210+95.52 STH 144 =
STA 20+00 LONE PINE ROAD

STA 20+26
REMOVE EXISTING CULVERT PIPE

PI 207+51.02

STH 144

EXISTING R/W

SLOPE INTERCEPTS

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	INTERSECTION DETAIL (LONE PINE RD)	SHEET 25	E

2

2

N

BEAM GUARD (TYP)
(REMOVE & REPLACE)

STA 235+49-236+62
DRIVEWAY ENTRANCE
CURB AT EAT REQ'D

R/W LINE

PI 236+97.83

EXISTING R/W

STA 237+49.09 STH 144 =
STA 30+00 RIVERVIEW ROAD

SIGN

235 236 237 238 STH 144 239 240

12' 6' 18' +4.0 12' +3.6

SLOPE INTERCEPTS

EXISTING R/W

REMOVE EXISTING
CURB & GUTTER

INLET COVERS
TYPE V REQ'D

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D (TYP)

40'R +42.2 +97.3 12' +44.8 14.5' +41.6

RIVERVIEW RD

SAWING REQ'D
(TYP)

STA 29+02
SAWING ASPHALT REQ'D

40'R R/W LINE +41.6 +4.0 10'

SLOPE INTERCEPTS

EXISTING R/W

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D (TYP)

MODIFIED TYPE D INTERSECTION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	INTERSECTION DETAIL (RIVERVIEW RD)	SHEET	E

FILE NAME : F:\d3_652506\021101_id.dgn PLOT DATE : 31-AUG-2016 14:29 PLOT BY : dotmzc PLOT NAME : 021101id.i PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42

2

2

N

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

BASE AGGREGATE DENSE

BASE AGGREGATE DENSE

BASE AGGREGATE DENSE

CONCRETE STEPS REQ'D

REMOVE
CONCRETE STEPS

SAWING REQ'D
(TYP)

REMOVE FENCE

REMOVE CARBIDE
PIT GENERATOR

EXISTING R/W

TLE

SLOPE INTERCEPTS

24'

24'

BARN

HSE

SEPTIC

306

307

308

309

STH 144

310

311

312

REMOVE EXISTING
CURB & GUTTER

REMOVE EXISTING
CURB & GUTTER

SIGN Ø

SIGN Ø

SLOPE INTERCEPTS

EXISTING R/W

308+20
18.5' RT

24'

TLE

BLDG

BLDG

HSE

CAUTION

306+80
28.42' RT

REMOVE
SURFACE DRAIN

REMOVE EXISTING
PAVEMENT

REMOVE EXISTING
PAVEMENT

REMOVE EXISTING
PAVEMENT

REMOVE & REPLACE
EXISTING BEAM GUARD

ASPHALTIC
FLUME REQ'D

BASE AGGREGATE DENSE

BASE AGGREGATE DENSE

NOTE: ALL DRIVEWAY APRONS ARE "CONCRETE DRIVEWAY 6-INCH"
UNLESS NOTED OTHERWISE.

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN DETAIL	SHEET	E

N

MODIFIED TYPE D INTERSECTION

STA 71+36
SAWING ASPHALT REQ'D

DRAINAGE EASEMENT
DOCUMENT #582370

BLDG

CONCRETE DRIVEWAY
6-INCH REQ'D

BASE AGGREGATE DENSE

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH
TYPE D (TYP)

REMOVE EXISTING
PAVEMENT

REMOVE EXISTING
MANHOLE

REMOVE EXISTING
CURB & GUTTER

REMOVE EXISTING
STORM SEWER

SCHROETER RD 71

10:1 TAPER

60'R

40'R

R/W LINE

EXISTING R/W

SLOPE INTERCEPTS

TLE

PI 312+69.70

STH 144

REMOVE EXISTING
CURB & GUTTER

REMOVE EXISTING
PAVEMENT

SAWING REQ'D
(TYP)

CONCRETE DRIVEWAY
6-INCH REQ'D

BASE AGGREGATE DENSE

STA 316+04 REMOVE
2'x2'x48' BOX CULVERT

REMOVE EXISTING
INLET

DRAIN TILE
EXPLORATION REQ'D

REMOVE EXISTING
PAVEMENT

CONCRETE DRIVEWAY
6-INCH REQ'D

REMOVE EXISTING
PAVEMENT

STA 316+68.00 STH 144 =
STA 70+00 SCHROETER ROAD

NOTE: ALL DRIVEWAY APRONS ARE "CONCRETE DRIVEWAY 6-INCH" UNLESS NOTED OTHERWISE.

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN DETAIL	SHEET	E

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REMOVE EXISTING
STORM SEWER

CONCRETE DRIVEWAY
6-INCH REQ'D

SAWING REQ'D

BASE AGGREGATE DENSE

CONCRETE DRIVEWAY
6-INCH REQ'D

ASPHALT

GRGE

BLDG

HSE

TLE

TLE

TLE

35'

35'

REMOVE EXISTING
PAVEMENT

20'

SLOPE INTERCEPTS

PI 322+57.63

EXISTING R/W

318

319

320

STH 144

321

322

323

324

REMOVE EXISTING
STORM SEWER

REMOVE EXISTING
INLET

REMOVE EXISTING
CURB & GUTTER

REMOVE EXISTING
INLET

SIGN

SLOPE INTERCEPTS

14'

35'

CAUTION

20'

EXISTING R/W

GUY

GUY

TLE

REMOVE EXISTING
PAVEMENT

BASE AGGREGATE DENSE

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

BASE AGGREGATE DENSE

ASPHALT

NOTE: ALL DRIVEWAY APRONS ARE "CONCRETE DRIVEWAY 6-INCH"
UNLESS NOTED OTHERWISE.

2

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BASE AGGREGATE DENSE 3/4-INCH REQ'D
INSTEAD OF SALVAGED TOPSOIL, FERTILIZER, SEED AND EROSION MAT BETWEEN BACK OF CURB & SLOPE INTERCEPTS

ASPHALT

CONCRETE DRIVEWAY
6-INCH REQ'D

CONCRETE SIDEWALK
REQ'D

BASE AGGREGATE DENSE

CONCRETE DRIVEWAY
6-INCH REQ'D

REMOVE EXISTING
PAVEMENT

REMOVE EXISTING
PAVEMENT

REMOVE EXISTING
SIDEWALK

TLE

HSE

BLDG

EXISTING R/W

SLOPE INTERCEPT

Pl 328+50.83

SIGN

324

325

326

327

STH 144

328

329

330

REMOVE EXISTING
STORM SEWER

REMOVE EXISTING
CURB & GUTTER

REMOVE EXISTING
STORM SEWER

REMOVE EXISTING
CURB & GUTTER

REMOVE EXISTING
INLET

REMOVE EXISTING
STORM SEWER

REMOVE EXISTING
INLET

SLOPE INTERCEPT

EXISTING R/W

REMOVE EXISTING
SIDEWALK

SAWING REQ'D
(TYP)

ASPHALT

CONCRETE CURB & GUTTER
30-INCH TYPE D TYP

CONCRETE SIDEWALK
REQ'D

SAWING REQ'D
(TYP)

BASE AGGREGATE DENSE

BASE AGGREGATE DENSE

REMOVE EXISTING
PAVEMENT

CONCRETE DRIVEWAY
6-INCH REQ'D

REMOVE EXISTING
CONCRETE MASONRY

GUY

CAUTION

NOTE: ALL DRIVEWAY APRONS ARE "CONCRETE DRIVEWAY 6-INCH" UNLESS NOTED OTHERWISE.

PROJECT NO:6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN DETAIL	SHEET 30	E

2

2

N

GRGE

BLDG

HSE

GRGE

WALLS

WALLS

BASE AGGREGATE DENSE

13'

REMOVE CONCRETE SIDEWALK

SAWING REQ'D (TYP)

SLOPE INTERCEPTS

REMOVE EXISTING PAVEMENT

EXISTING R/W

SAWING REQ'D (TYP)

ASPHALT

GRUBBING REQ'D

ASPHALT

CONCRETE DRIVEWAY & APRON
8-INCH REQ'D

REMOVE EXISTING PAVEMENT

TLE

ASPHALT

SIGN

SIGN

GUY

330

331

332

333

334

335

336

STH 144

REMOVE EXISTING CURB & GUTTER

REMOVE EXISTING STORM SEWER

REMOVE EXISTING INLET

REMOVE EXISTING CURB & GUTTER

SIGN

CAUTION

SLOPE INTERCEPTS

24'

16'

EXISTING R/W

BLDG

HSE

BASE AGGREGATE DENSE

CONCRETE DRIVEWAY
6-INCH REQ'D

REMOVE EXISTING DRIVEWAY

BASE AGGREGATE DENSE

CONCRETE CURB & GUTTER
30-INCH TYPE D TYP

BASE AGGREGATE DENSE

CONCRETE DRIVEWAY
6-INCH REQ'D

BASE AGGREGATE DENSE 3/4-INCH REQ'D
INSTEAD OF SALVAGED TOPSOIL, FERTILIZER, SEED AND EROSION MAT BETWEEN BACK OF CURB & SLOPE INTERCEPTS

BLDG

HSE

NOTE: ALL DRIVEWAY APRONS ARE "CONCRETE DRIVEWAY 6-INCH" UNLESS NOTED OTHERWISE.

PROJECT NO:6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN DETAIL	SHEET 31	E

2

2

N

HSE

BASE AGGREGATE DENSE

TLE

CONCRETE DRIVEWAY
6-INCH REQ'D

REMOVE EXISTING
PAVEMENT

CEMETERY

SIGN

SLOPE INTERCEPTS

PI 339+58.61

CONCRETE DRIVEWAY
6-INCH REQ'D

REMOVE EXISTING
PAVEMENT

SAWING REQ'D
(TYP.)

EXISTING R/W

336 337 338 339 STH 144 340 341 342

REMOVE EXISTING
CURB & GUTTER

13' +71

22' +81

SLOPE INTERCEPTS

EXISTING R/W

REMOVE CONCRETE
SIDEWALK

SAWING REQ'D
(TYP)

24'

CAUTION

24'

WELL

TLE

BASE AGGREGATE DENSE

CONCRETE CURB & GUTTER
30-INCH TYPE D TYP

ASPHALT

NOTE: ALL DRIVEWAY APRONS ARE "CONCRETE DRIVEWAY 6-INCH"
UNLESS NOTED OTHERWISE.

PROJECT NO:6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN DETAIL	SHEET	E

FILE NAME : F:\d3_652506\021208_pd.dgn PLOT DATE : 27-JUL-2016 15:47 PLOT BY : dotmzc PLOT NAME : 021208 pd.i PLOT SCALE : 40:1

2

N

SILVER CREEK RD

STA 81+28
SAWING ASPHALT REQ'D

CONCRETE MEDIAN
BLUNT NOSE

CONCRETE CURB
TYPE D

10:1 TAPER

2.3'R

14.75'
+01.30

80+77.75
22.4' RT

STA 342+84.15 STH 144 =
STA 80+00 SILVER CREEK ROAD

+78
+59

TAPER CURB HEAD
6" TO 0" IN 10'

R/W LINE

80+33.9
62.8' RT

TYPE D INTERSECTION

STA 342+63 LT REMOVE
EXISTING 18"x105' CMCP

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

SAWING REQ'D
(TYP)

+29
+58

40'R

TLE

10'

15'
+78

15'
+58

81

PI 342+80.99

EXISTING R/W

SLOPE INTERCEPTS

SAWING REQ'D
(TYP)

REMOVE EXISTING
PAVEMENT

TAPER CURB HEAD
6" TO 0" IN 10'

CONCRETE DRIVEWAY
6-INCH REQ'D (TYP)

ASPHALTIC FLUME REQ'D

EXISTING R/W

SLOPE INTERCEPTS

342 | 16' +09 | 18' +29 | 343 | 18' +59 | 344 | 345 | STH 144 | 18' +42 | 16' +62 | 346 | 347

22' +31

22' +37

12' +37

SLOPE INTERCEPTS

EXISTING R/W

24'

TLE

REMOVE EXISTING
PAVEMENT

40'R

+38
+31

15'

11'

10'

STA 342+85.57 STH 144 =
STA 90+00 CTH DE

+38
+37

REMOVE EXISTING DRIVEWAY

SLOPE INTERCEPTS

EXISTING R/W

24'

TLE

MODIFIED TYPE B2 INTERSECTION

TAPER CURB HEAD
6" TO 0" IN 10'

88+78

89

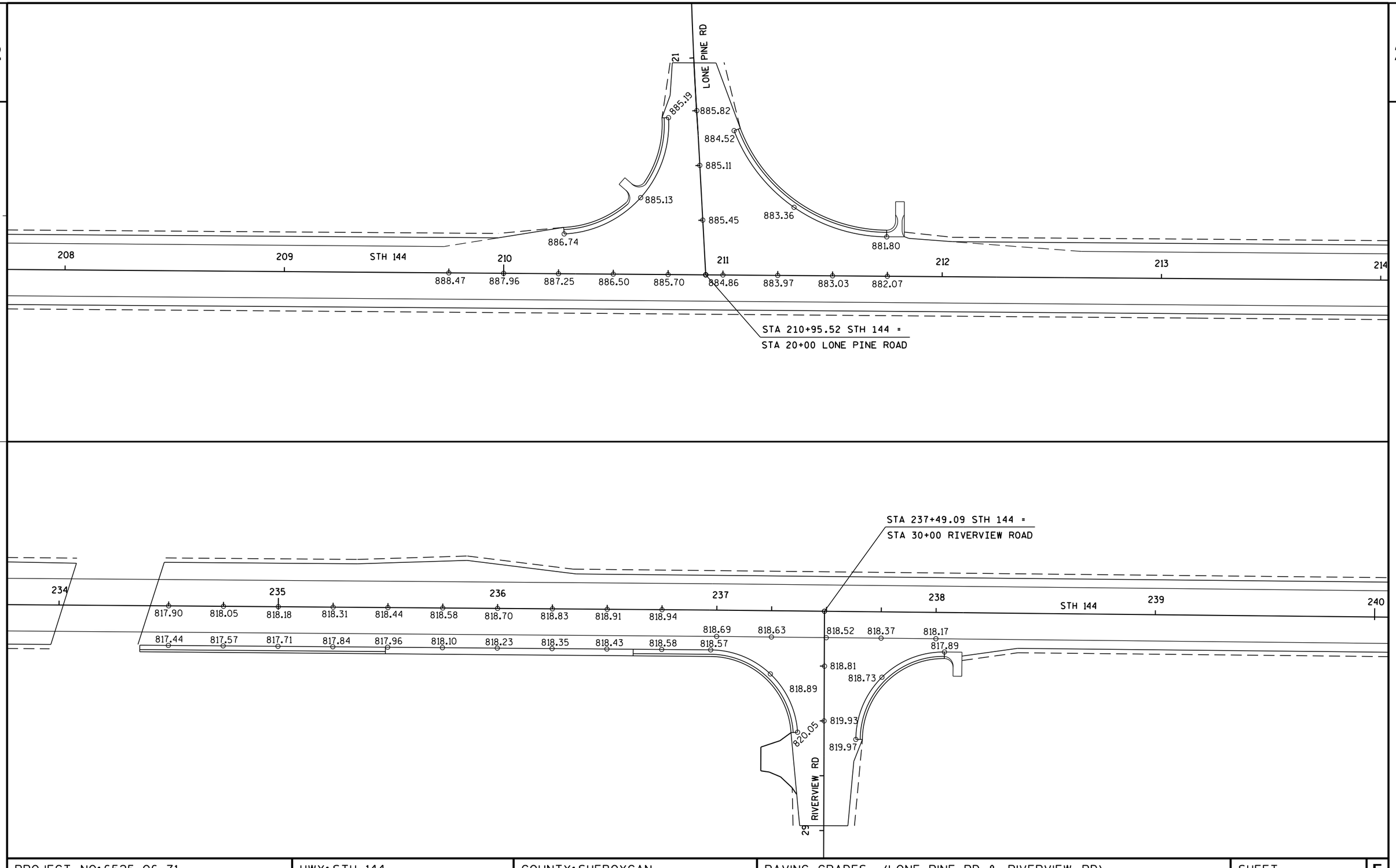
CTH DE

10:1 TAPER

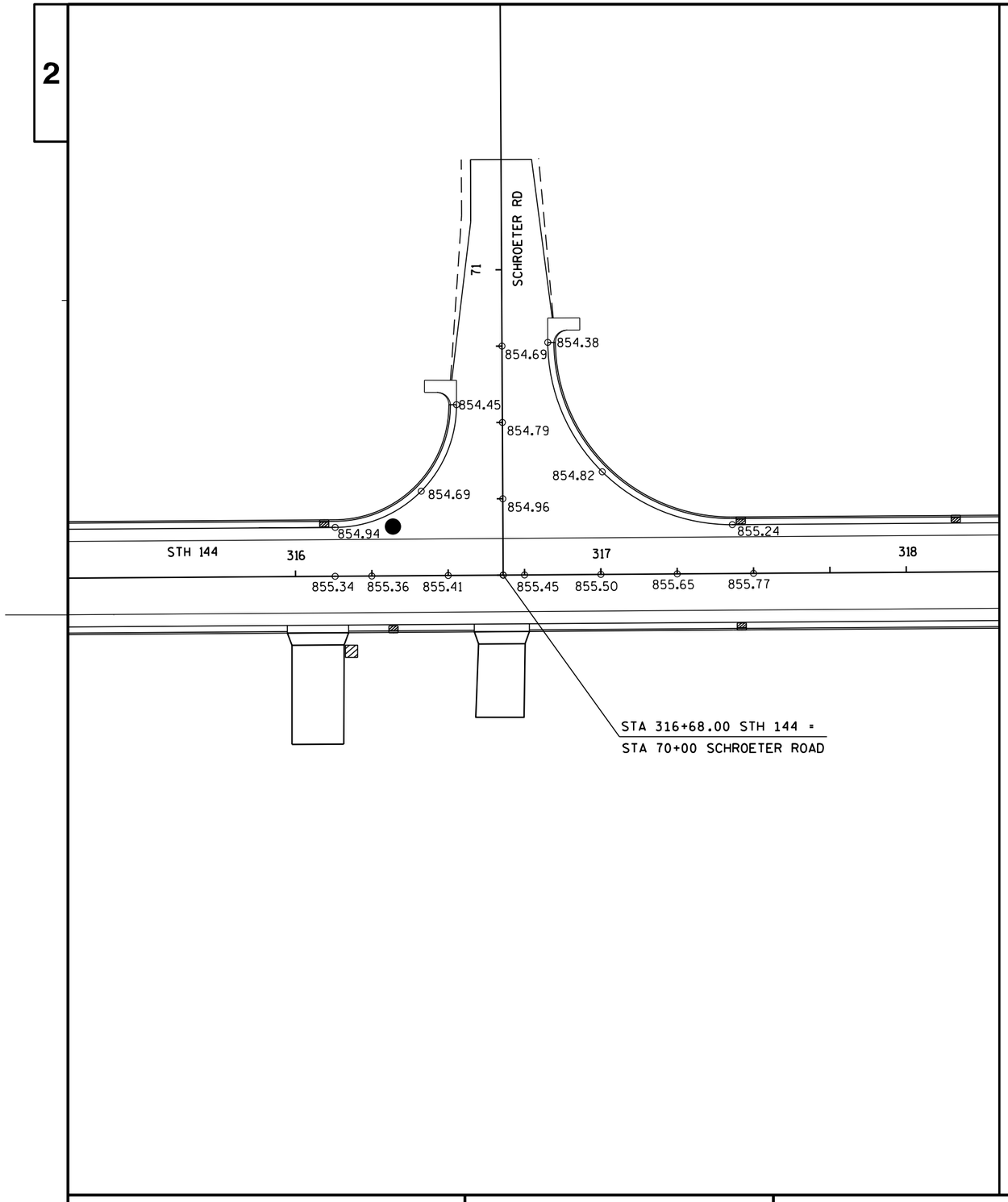
STA 88+28
SAWING ASPHALT REQ'D

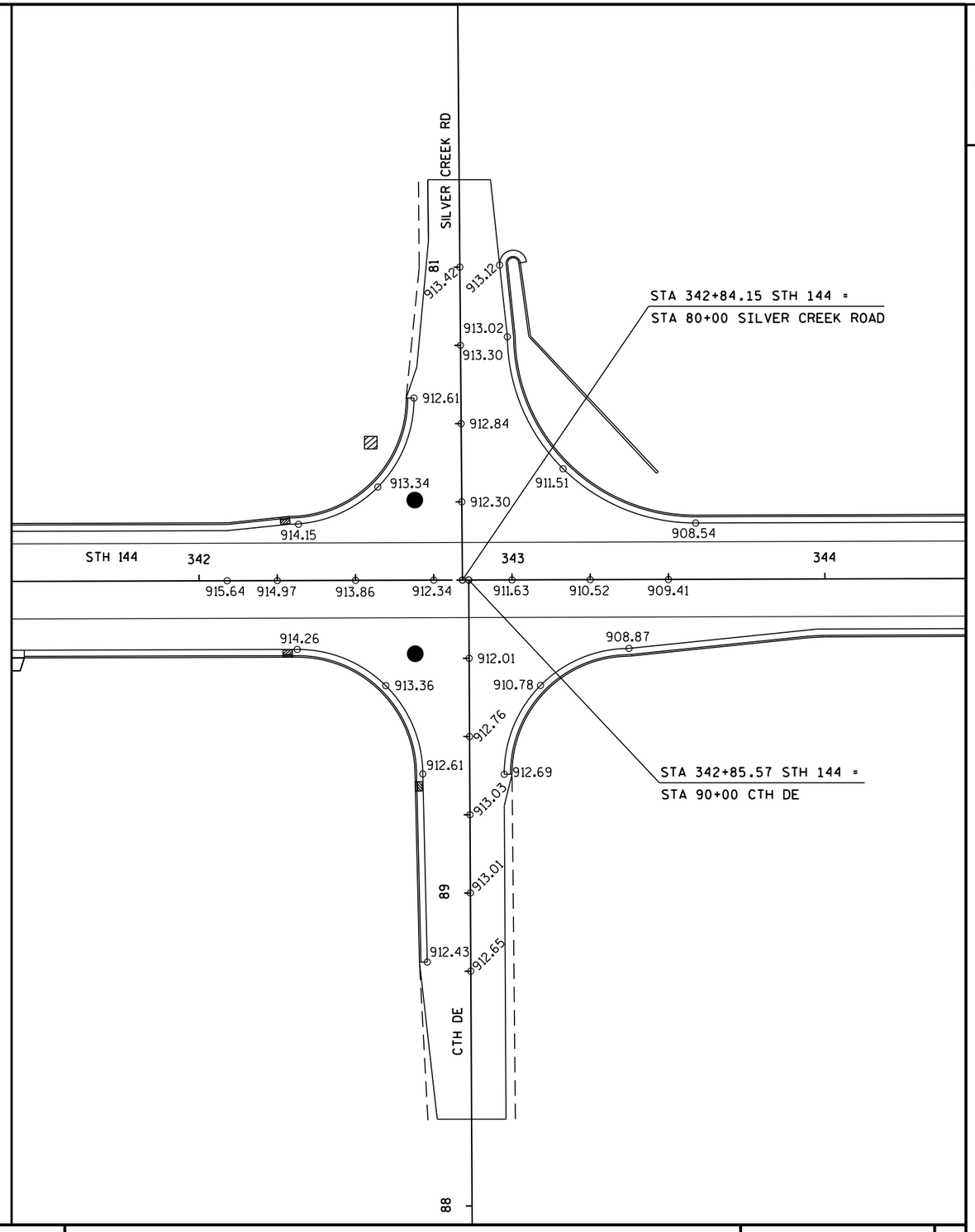
NOTE: ALL DRIVEWAY APRONS ARE "CONCRETE DRIVEWAY 6-INCH" UNLESS NOTED OTHERWISE.

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN DETAIL	SHEET 33	E

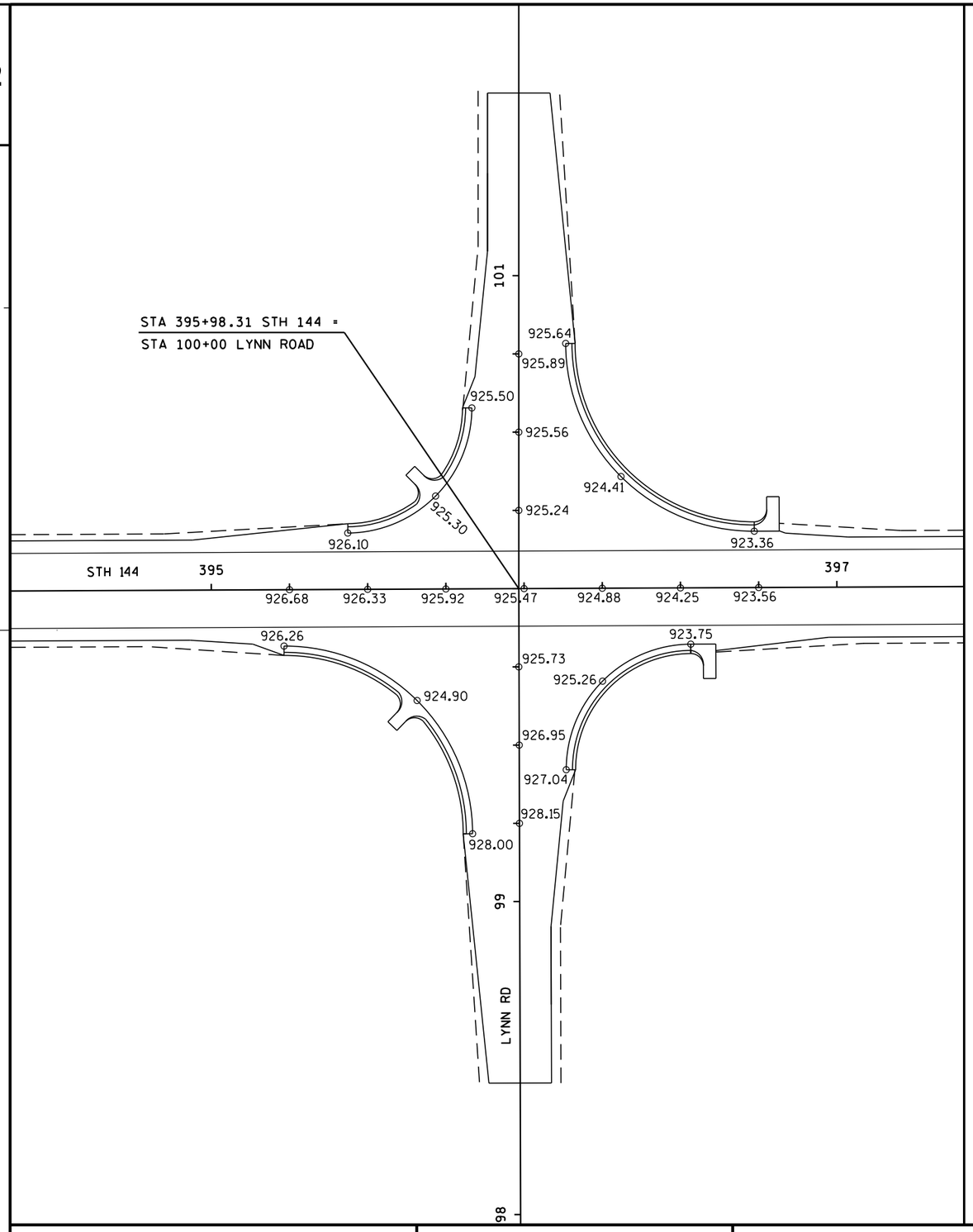


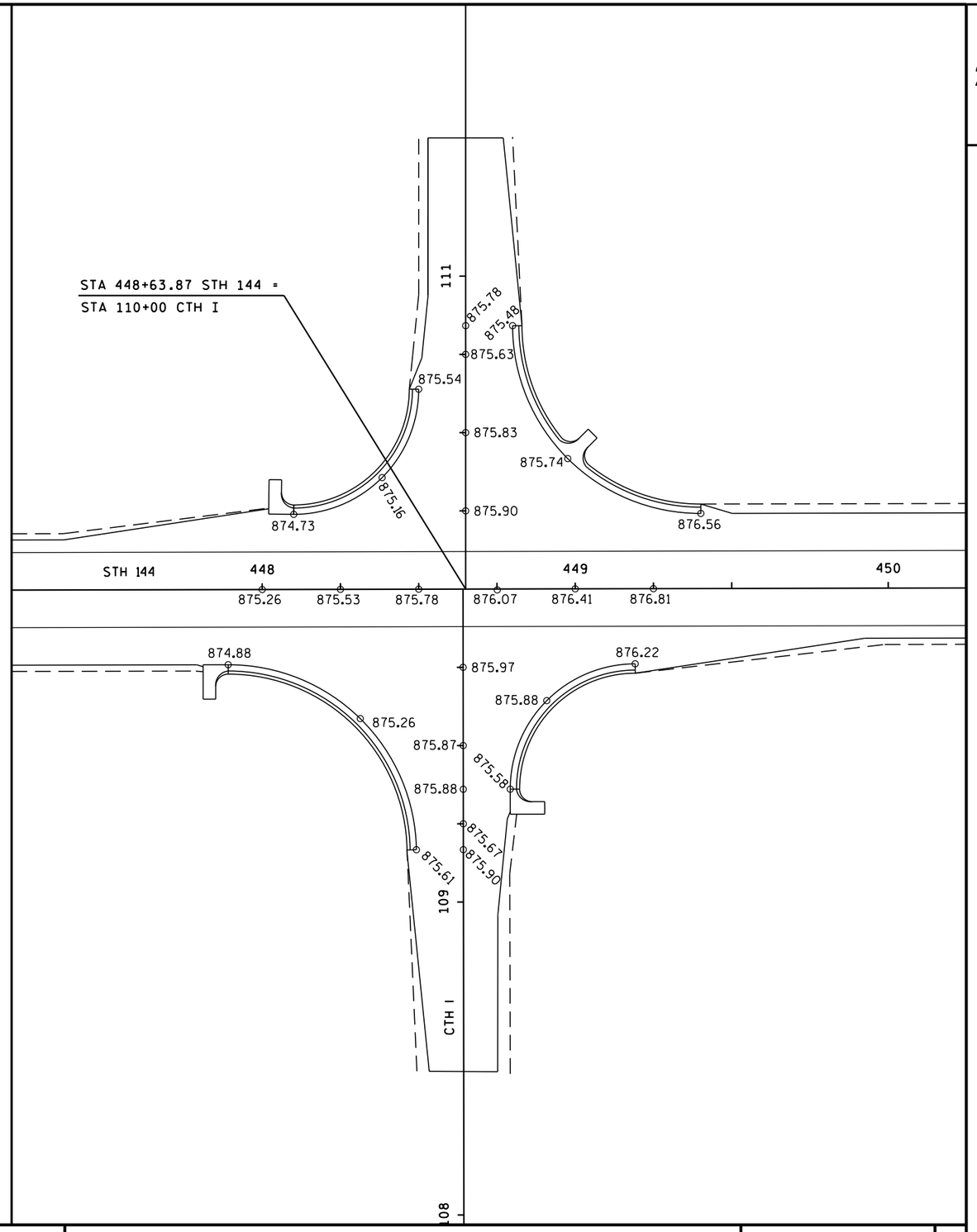
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PAVING GRADES (LONE PINE RD & RIVERVIEW RD)	SHEET E





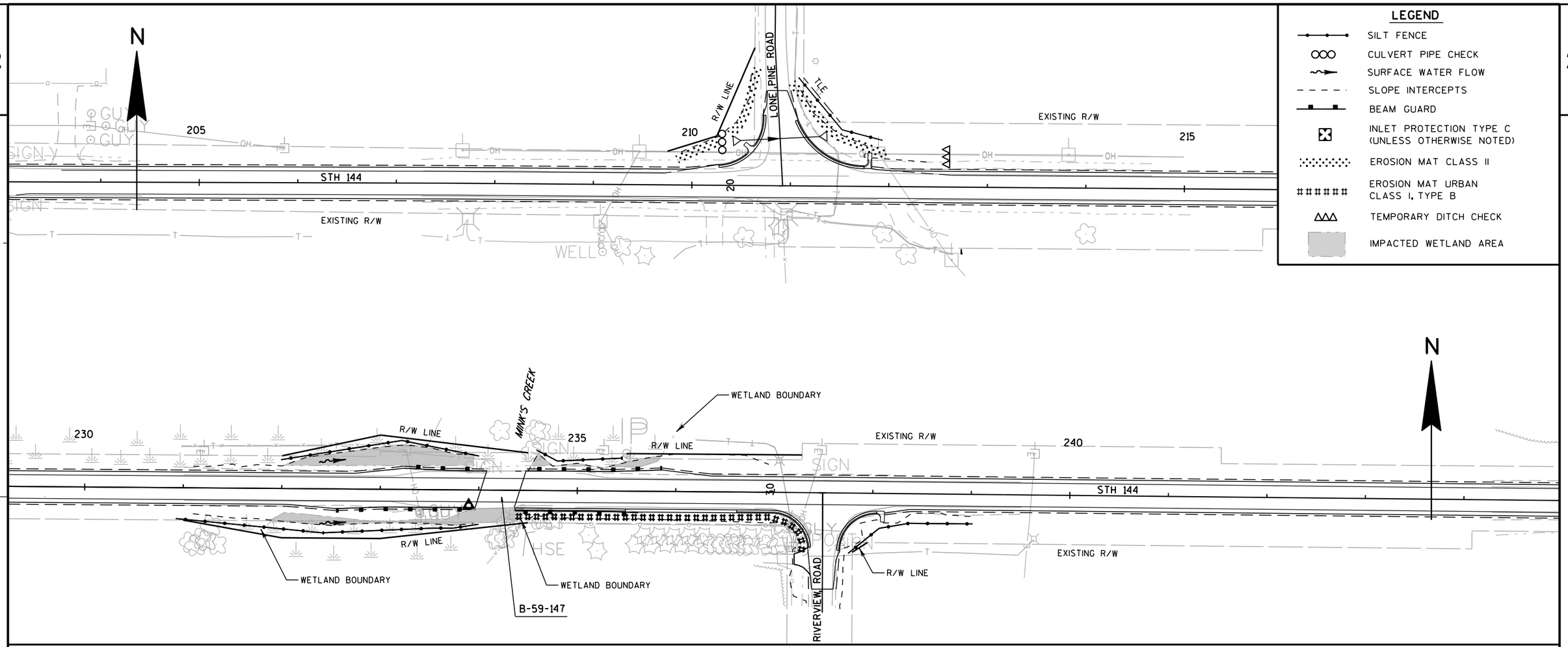
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PAVING GRADES (SCHROETER RD & CTH D/SILVER CREEK RD)	SHEET	E

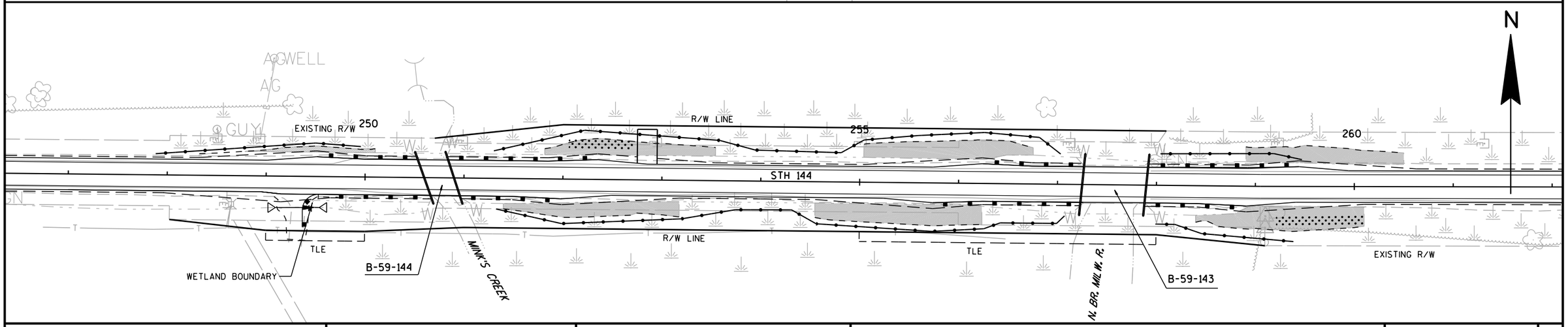




PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PAVING GRADES (LYNN RD & CTH I)	SHEET E

2





PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET	E

FILE NAME : F:\d3_652506\022001_ec.dgn PLOT DATE : 22-DEC-2016 07:21 PLOT BY : dotmzc PLOT NAME : 022001ec.i PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

275

EXISTING R/W

280

TLE

285

STH 144

R/W LINE

EXISTING R/W

LEGEND

- SILT FENCE
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPTS
- BEAM GUARD
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS II
- EROSION MAT URBAN CLASS I, TYPE B
- TEMPORARY DITCH CHECK
- IMPACTED WETLAND AREA

N

300

EXISTING R/W

305

TLE

310

TLE

BARN

HSE

HSE

STH 144

TLE

BLDG

BLDG

HSE

TLE

HSE

WETLAND BOUNDARY

WETLAND BOUNDARY

EXISTING R/W

CAMP ANAWA (NORTH)

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET	E

FILE NAME : F:\d3_652506\022002_ec.dgn PLOT DATE : 22-DEC-2016 07:22 PLOT BY : dotmzc PLOT NAME : 022002 ec.i PLOT SCALE : 100:1

2

N

INLET PROTECTION TYPE A

EXISTING R/W

315

TLE

R/W LINE

70

SCHROETER ROAD

EXISTING R/W

BLDG

HSE

TLE

320

STH 144

EXISTING R/W

TLE

INLET PROTECTION TYPE A

HSE

GRGE

BLDG

325

EXISTING R/W

TLE

HSE

BLDG

INLET PROTECTION TYPE A

LEGEND

- SILT FENCE
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPTS
- BEAM GUARD
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS II
- EROSION MAT URBAN CLASS I, TYPE B
- TEMPORARY DITCH CHECK
- IMPACTED WETLAND AREA

N

HSE

BLDG

330

GRGE WALLS

TLE

335

STH 144

EXISTING R/W

TLE

GRGE

BLDG

HSE

CEMETERY

340

EXISTING R/W

TLE

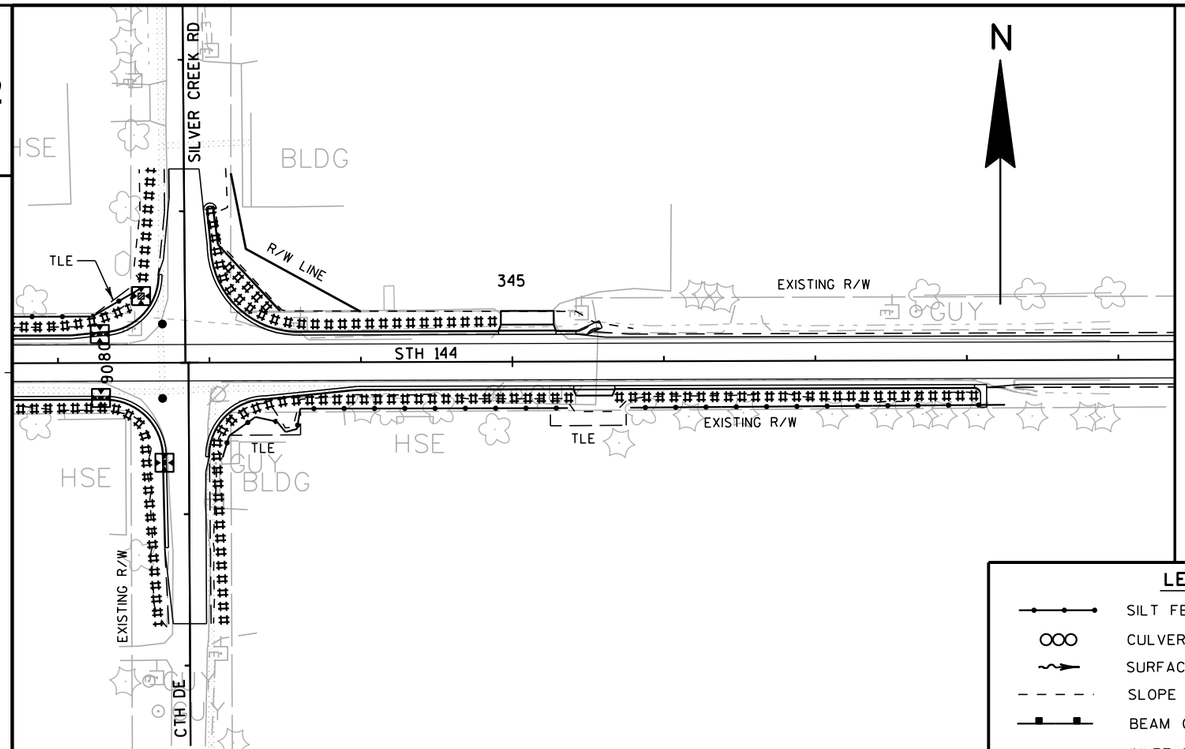
HSE

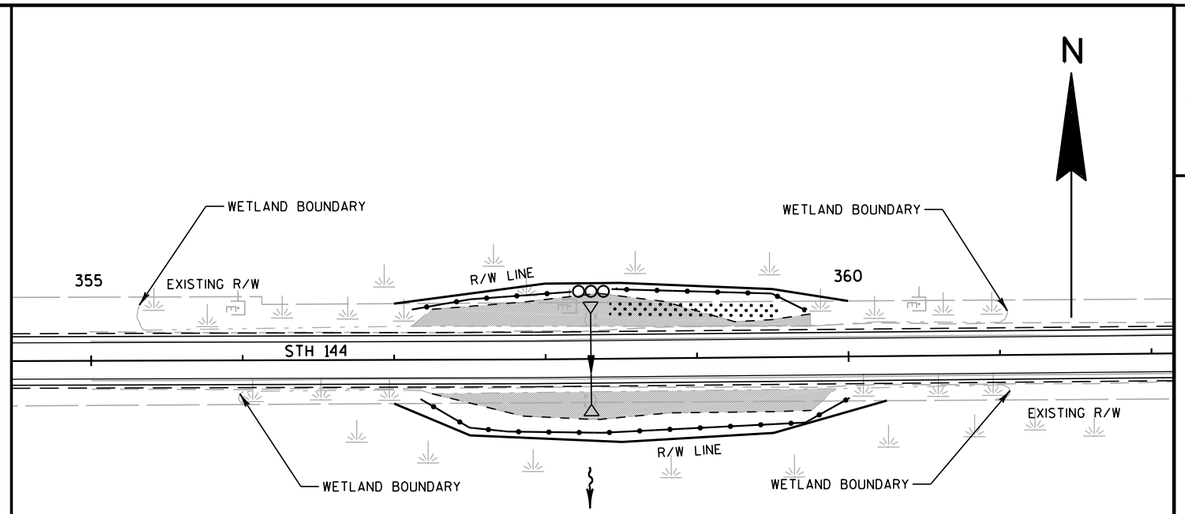
HSE

BLDG

HSE

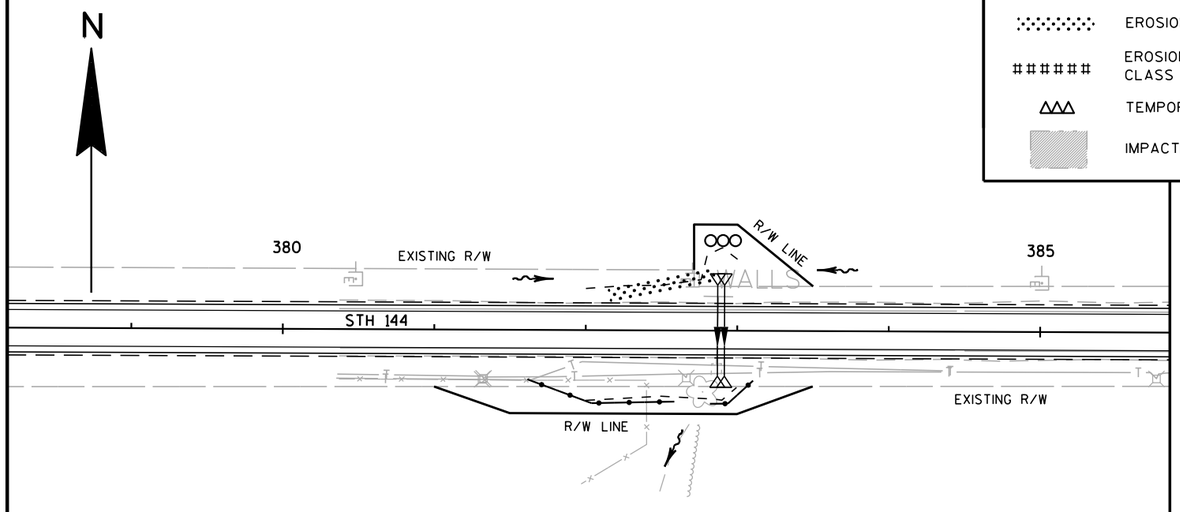
HSE

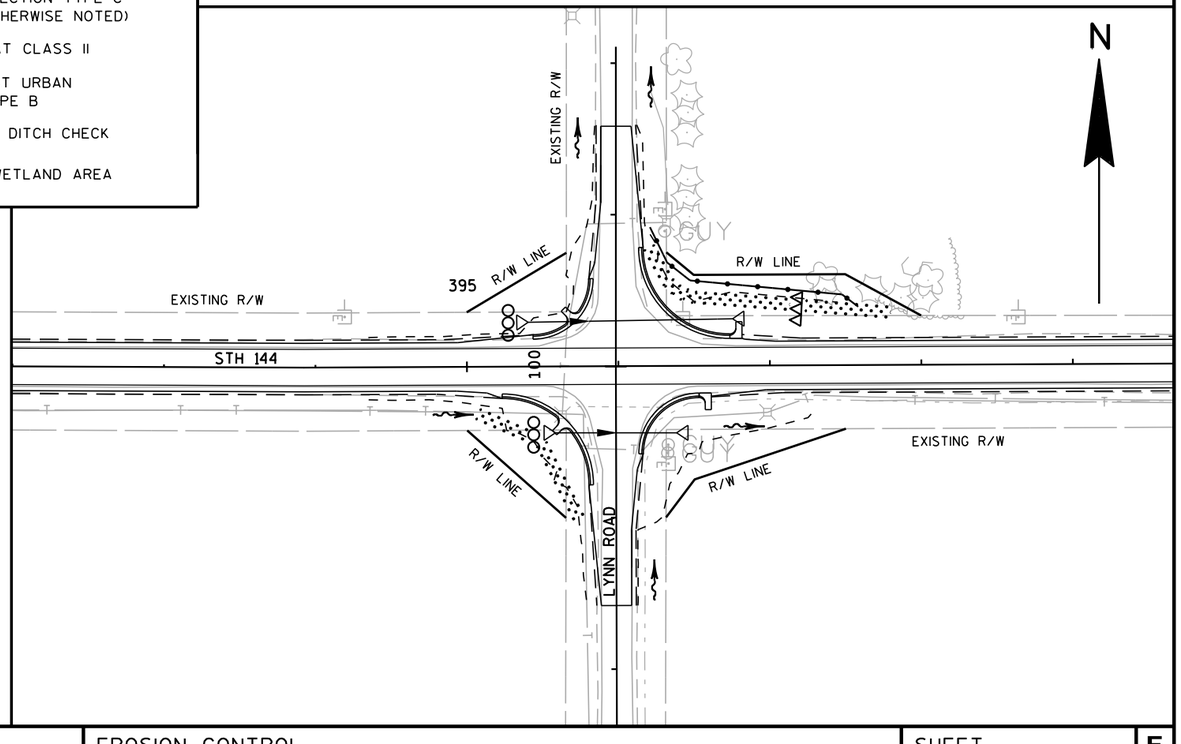




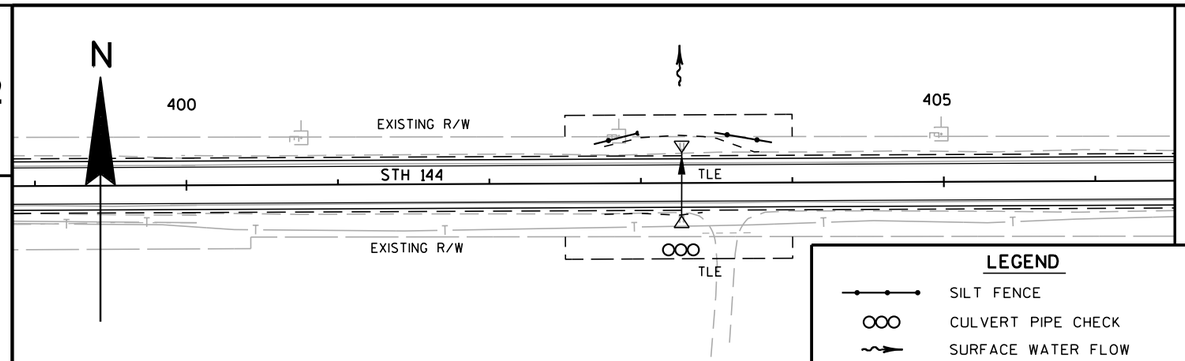
LEGEND

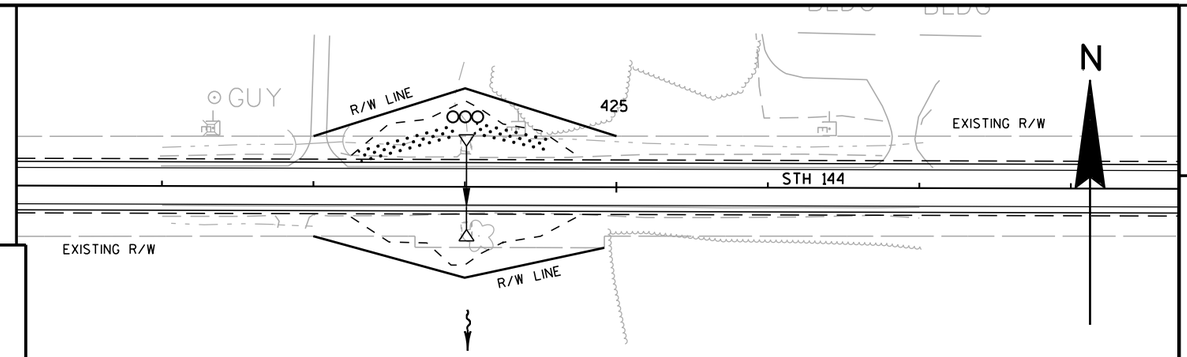
- SILT FENCE
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPTS
- BEAM GUARD
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS II
- EROSION MAT URBAN CLASS I, TYPE B
- TEMPORARY DITCH CHECK
- IMPACTED WETLAND AREA





PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET	E

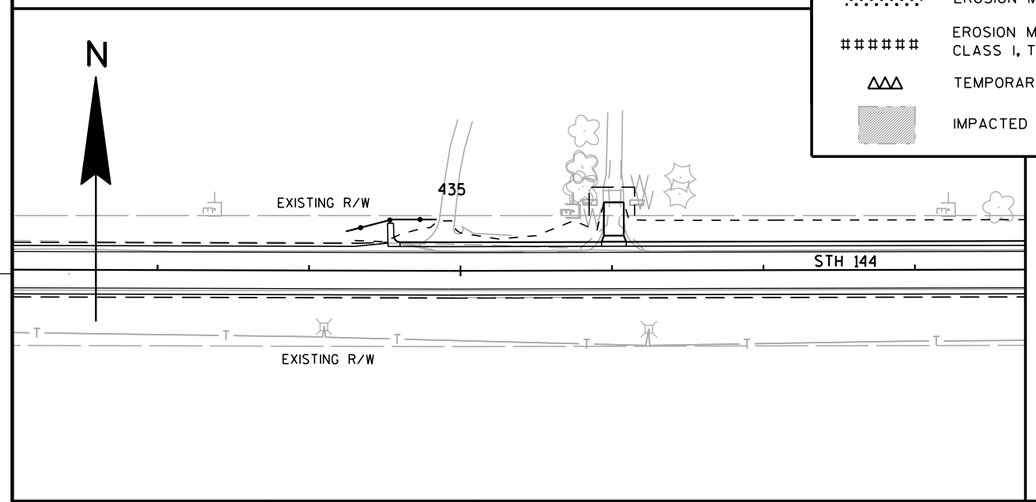


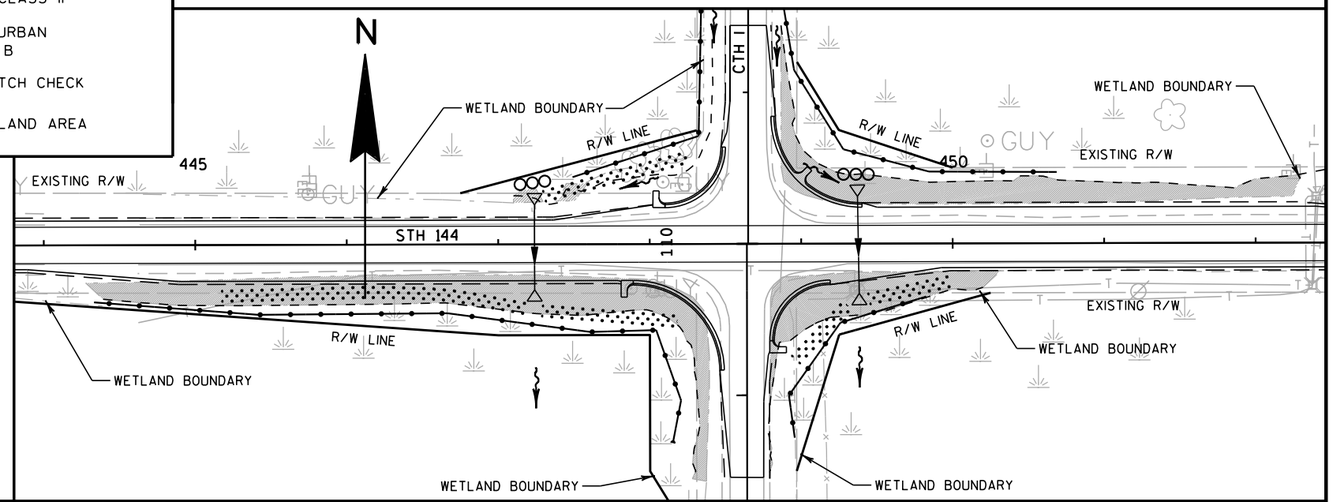


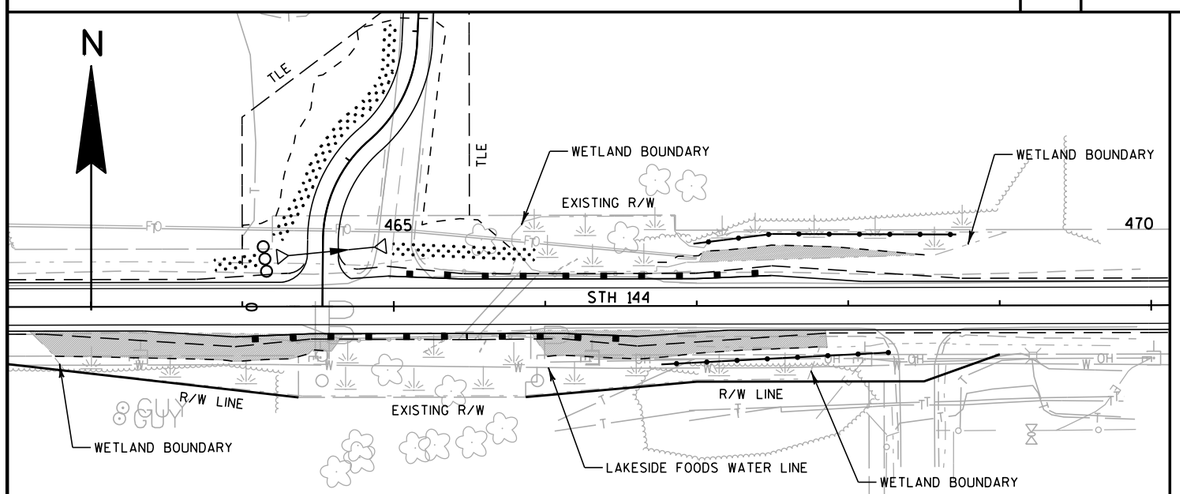
2

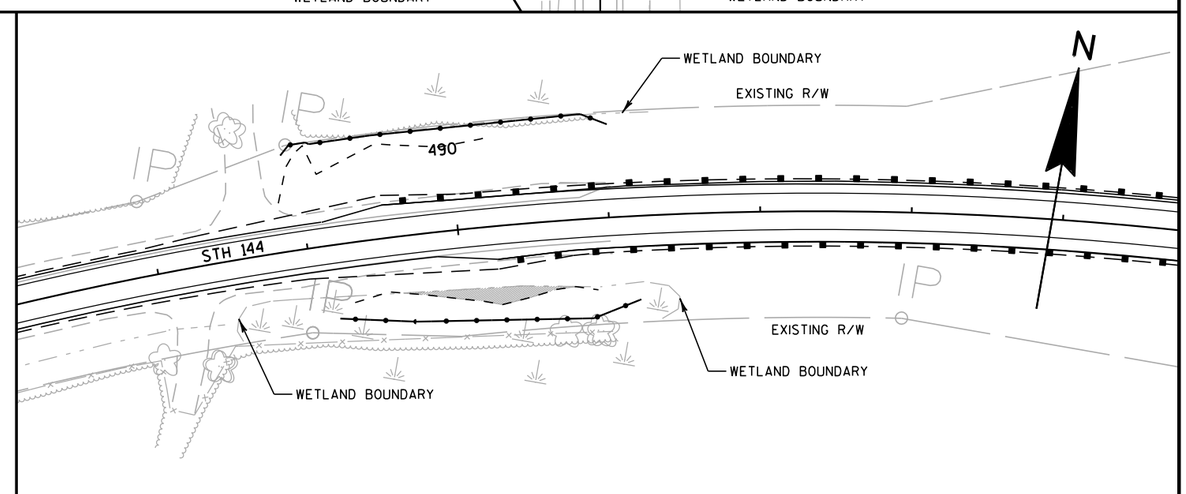
LEGEND

- SILT FENCE
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPTS
- BEAM GUARD
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS II
- EROSION MAT URBAN CLASS I, TYPE B
- TEMPORARY DITCH CHECK
- IMPACTED WETLAND AREA







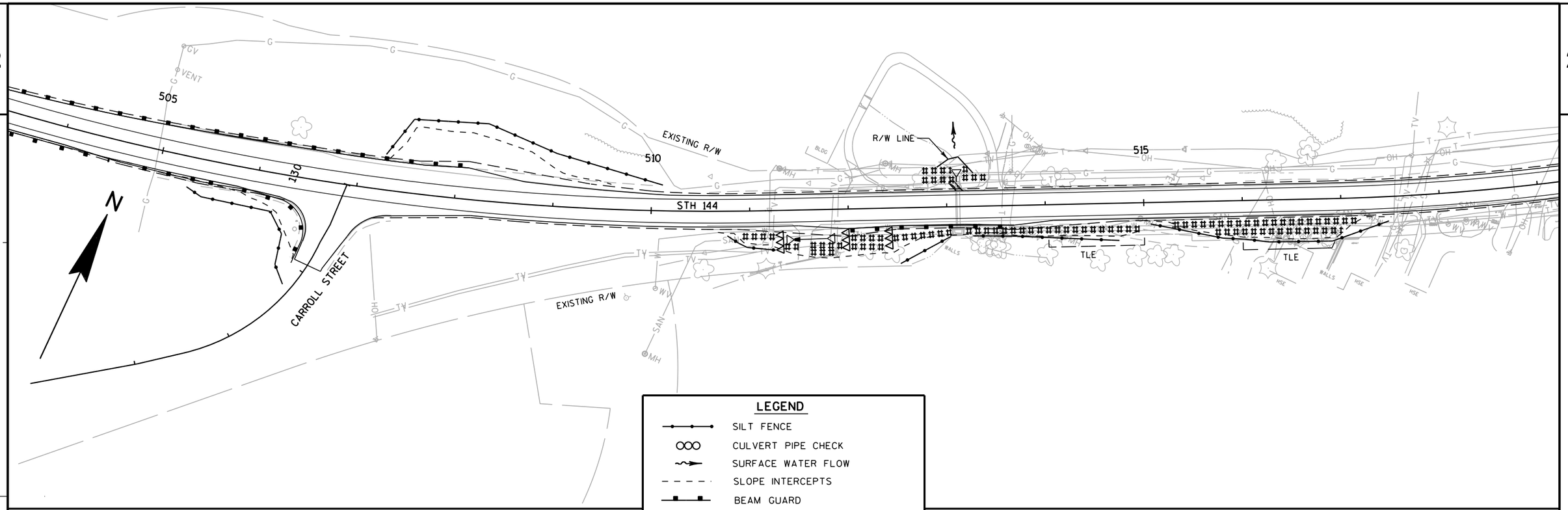


PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET	E

FILE NAME : F:\d3_652506\022004_ec.dgn PLOT DATE : 24-JAN-2017 14:09 PLOT BY : dotmzc PLOT NAME : 022004 ec.i PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2



LEGEND

- SILT FENCE
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPTS
- BEAM GUARD
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- EROSION MAT CLASS II
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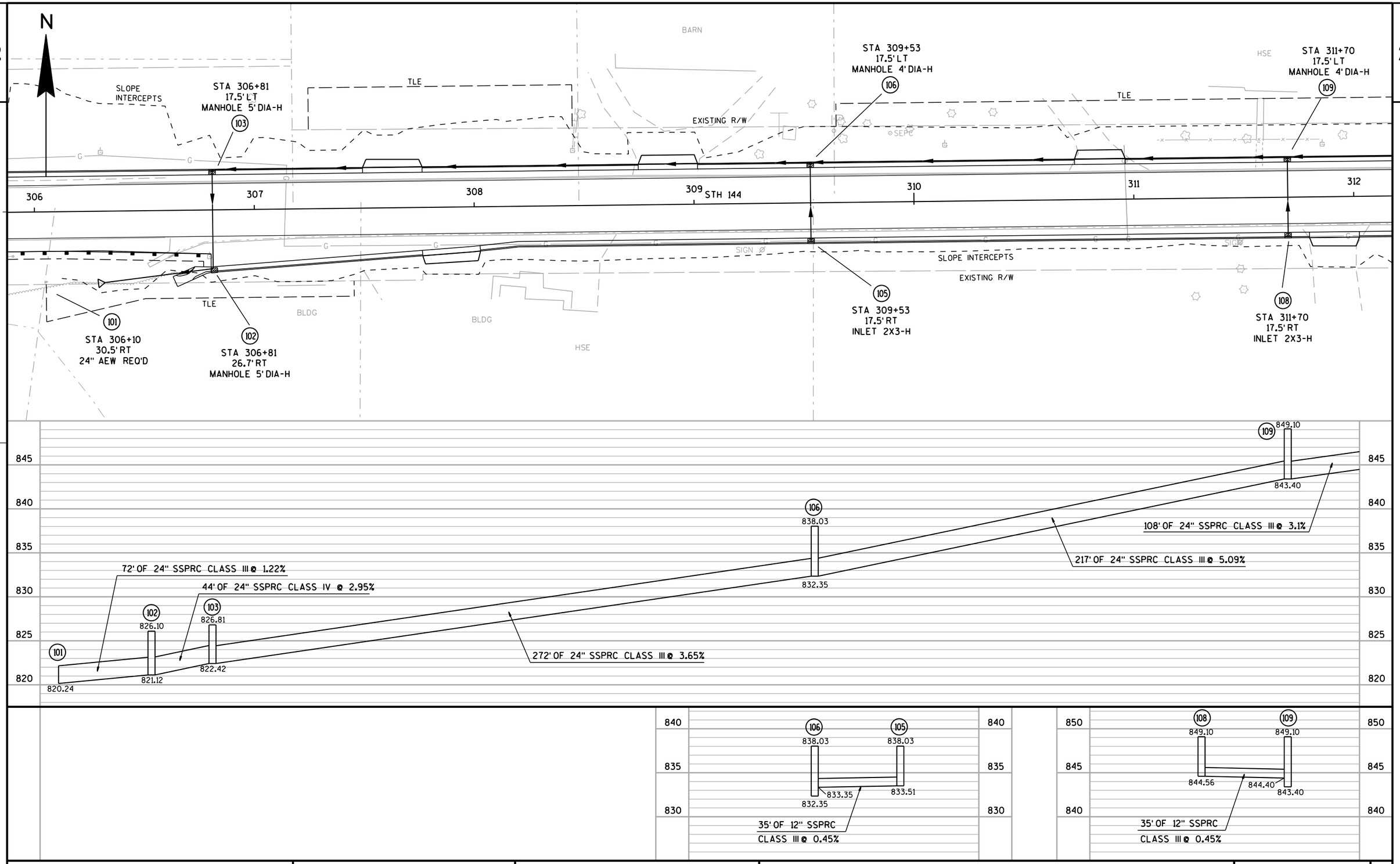
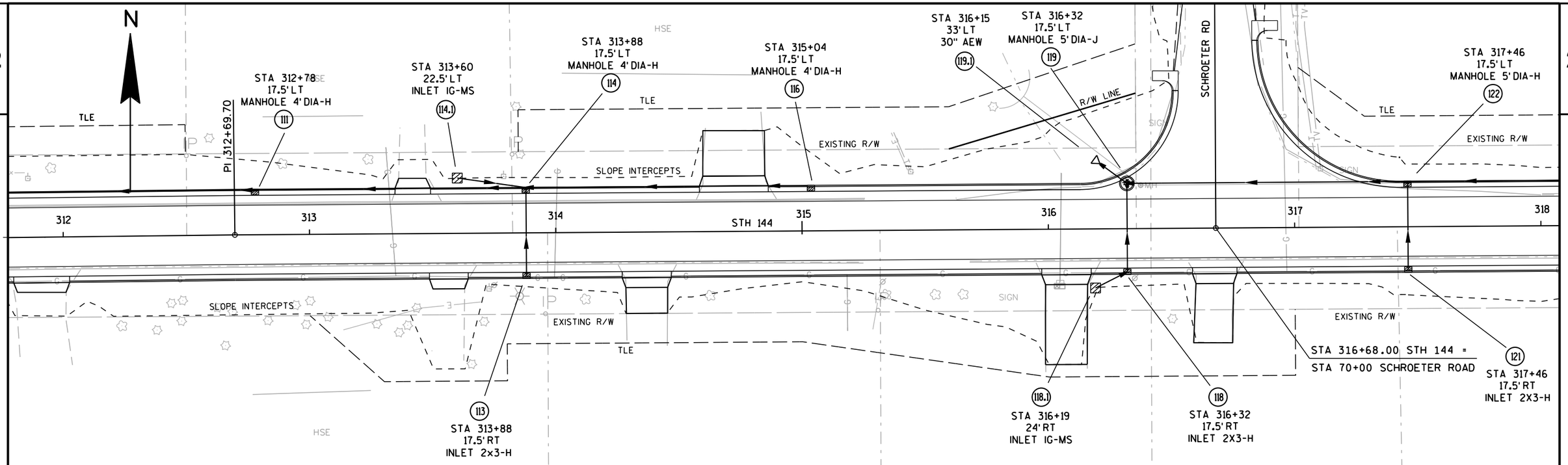
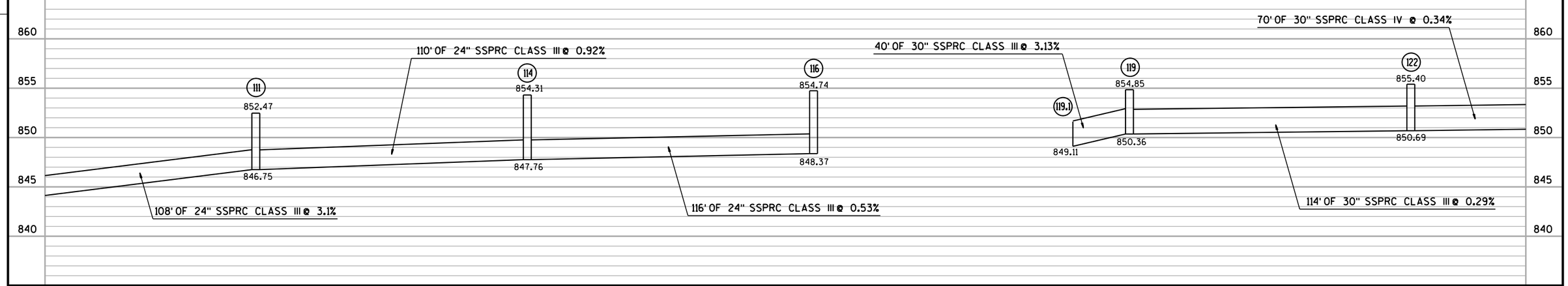
- TEMPORARY DITCH CHECK
- IMPACTED WETLAND AREA

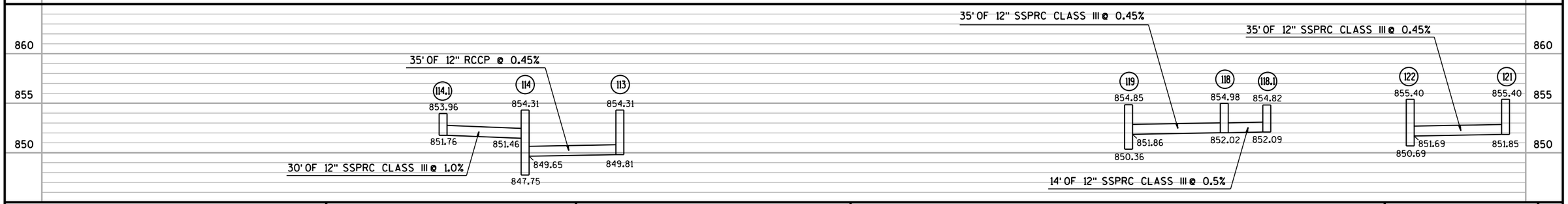
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 42	E



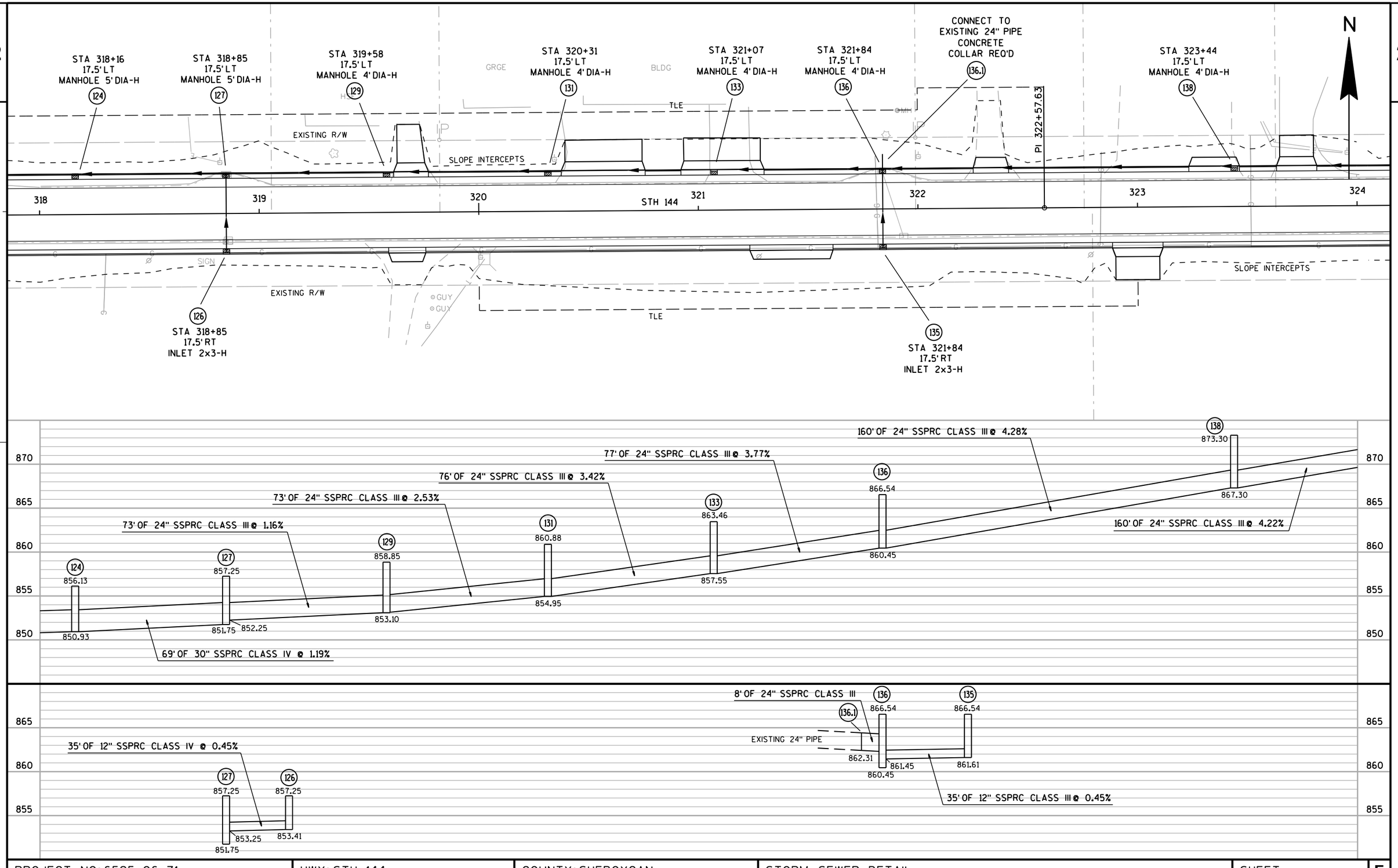
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	STORM SEWER DETAIL	SHEET	E







PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	STORM SEWER DETAIL	SHEET E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	STORM SEWER DETAIL	SHEET	E

N

STA 325+04
17.5' LT
MANHOLE 4' DIA-H
141

STA 326+86
17.5' LT
MANHOLE 4' DIA-H
143

STA 328+84
17.5' LT
MANHOLE 4' DIA-H
146

PI 328+50.83

TLE

EXISTING R/W

SLOPE INTERCEPTS

SIGN

HSE

BLDG

GUY

324 325 326 327 STH 144 328 329 330

140
STA 325+04
17.5' RT
INLET 2x3-H

145.1
STA 328+30
25' RT
INLET IG-MS

145
STA 328+84
17.5' RT
INLET 2x3-H

GRGE

895
890
885
880
875
870

146
896.14

143
887.77

141
880.07

889.83

881.85

874.05

198' OF 24" SSPRC CLASS III @ 4.43%

198' OF 24" SSPRC CLASS III @ 4.03%

182' OF 24" SSPRC CLASS III @ 4.26%

160' OF 24" SSPRC CLASS III @ 4.22%

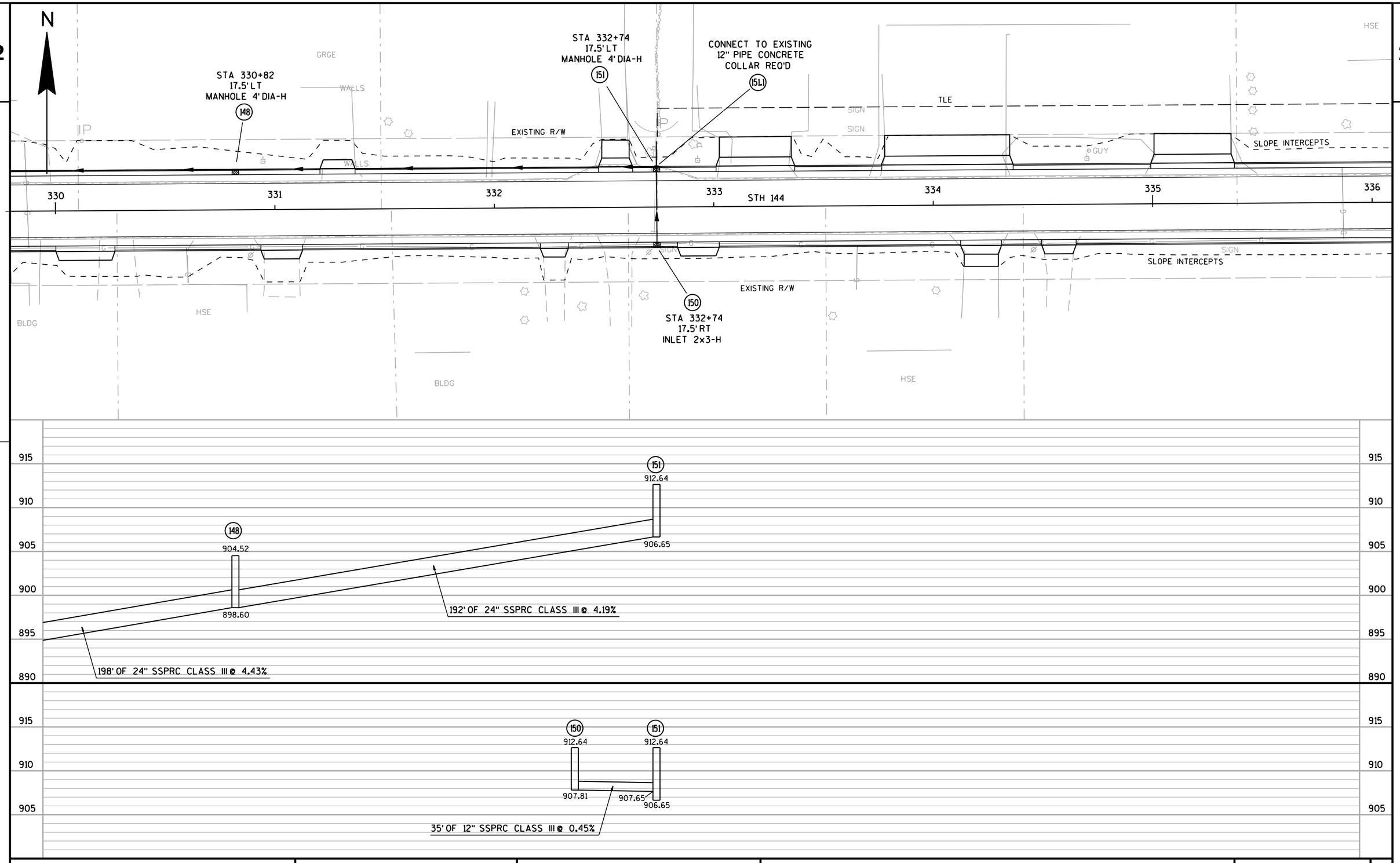
141 880.07 — 140 880.07
874.05 — 875.05 — 875.21
35' OF 12" SSPRC CLASS III @ 0.45%

146 896.14 — 145 896.14 — 145.1 893.70
889.83 — 890.83 — 890.99 — 891.21
35' OF 12" SSPRC CLASS III @ 0.45%
50' OF 12" SSPRC CLASS III @ 0.44%

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	STORM SEWER DETAIL	SHEET	E

FILE NAME : F:\d3_652506\022504_ss.dgn PLOT DATE : 27-JUL-2016 15:56 PLOT BY : dotmzc PLOT NAME : 022504 ss.i PLOT SCALE : 40:1

WISDOT/CADDS SHEET 41



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	STORM SEWER DETAIL	SHEET	E

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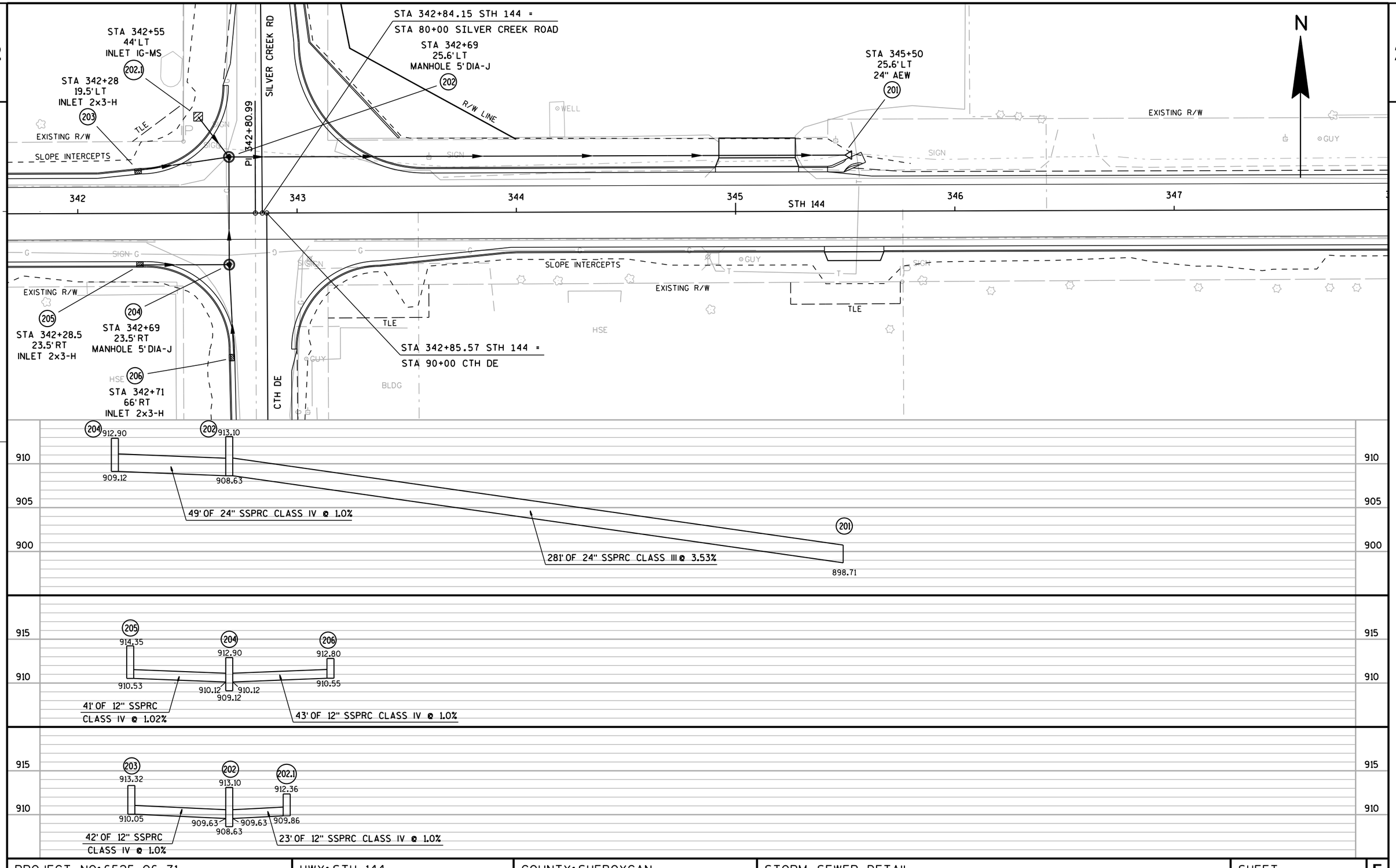
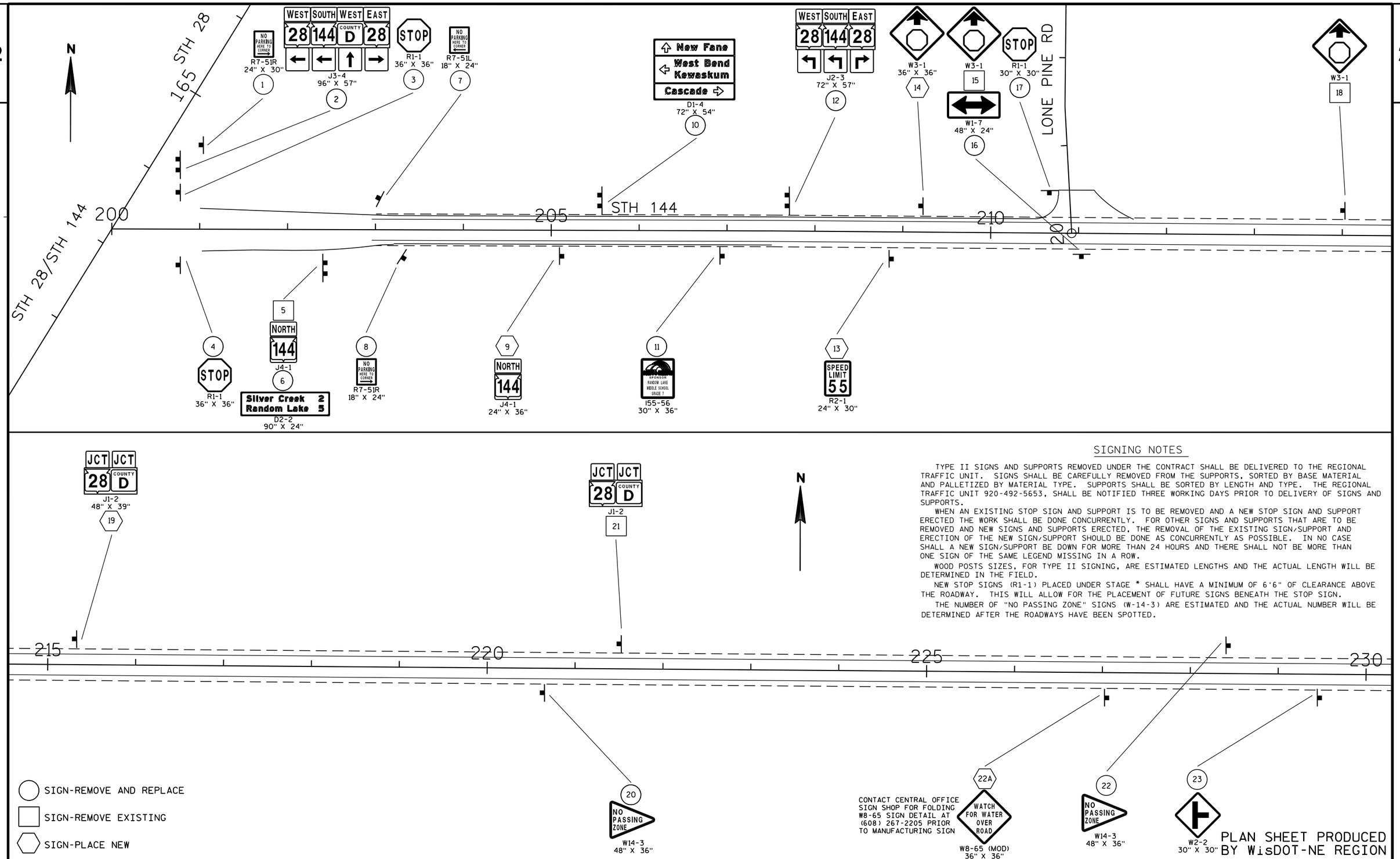


PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	STORM SEWER DETAIL	SHEET	E

FILE NAME : F:\d3_652506\022507_ss.dgn PLOT DATE : 27-JUL-2016 15:56 PLOT BY : dotmzc PLOT NAME : 022507 ss.i PLOT SCALE : 40:1



CONTACT CENTRAL OFFICE SIGN SHOP FOR FOLDING W8-65 SIGN DETAIL AT (608) 267-2205 PRIOR TO MANUFACTURING SIGN

SIGNING NOTES

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

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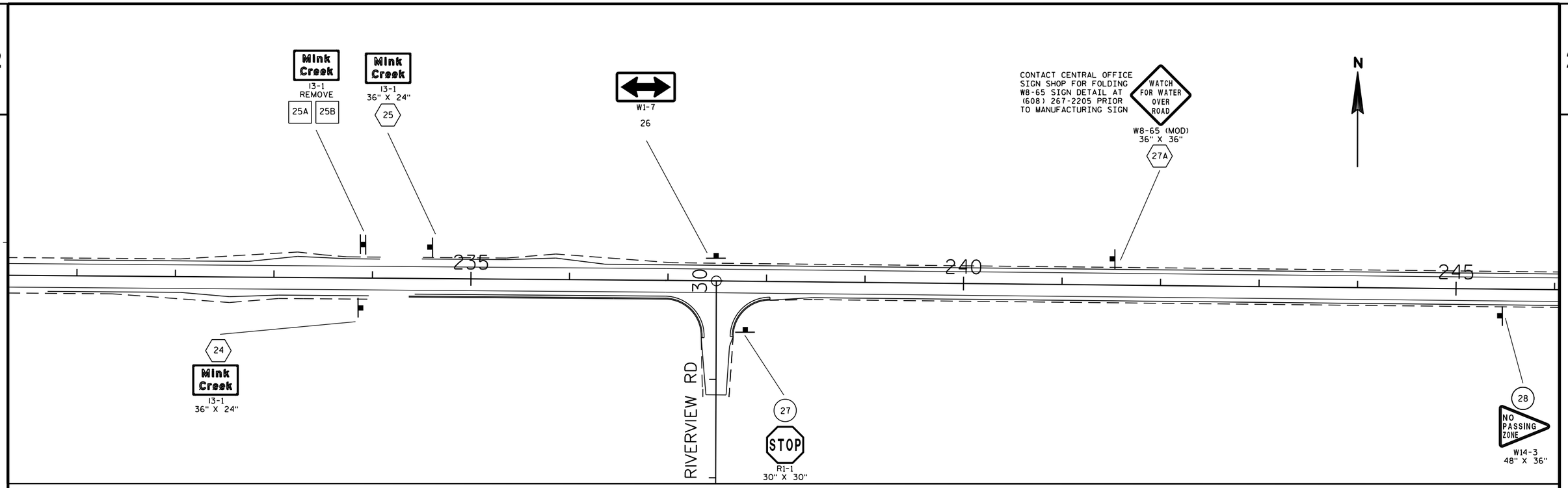
WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

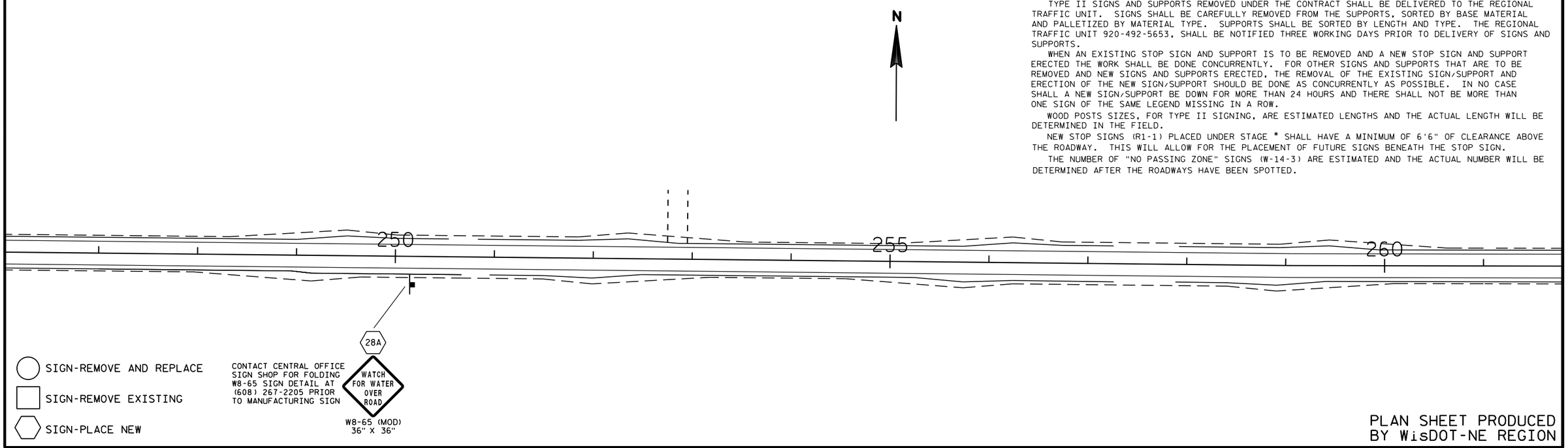
NEW STOP SIGNS (R1-1) PLACED UNDER STAGE * SHALL HAVE A MINIMUM OF 6'6" OF CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 49	E





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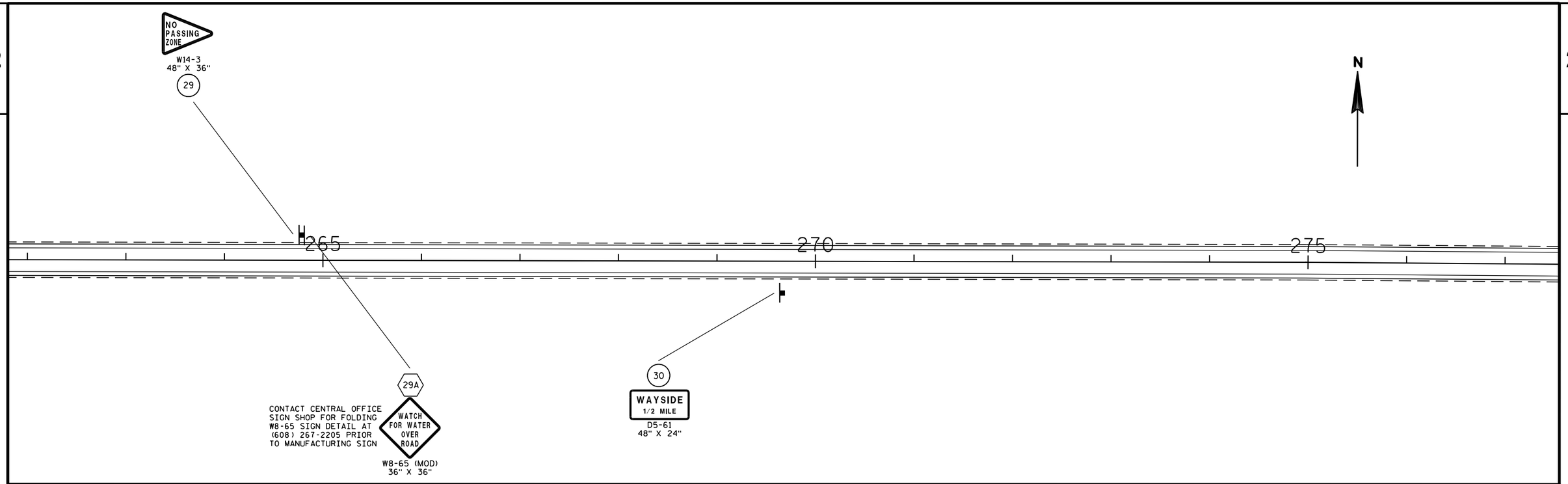
PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 50	E

2



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SIGN-REMOVE AND REPLACE

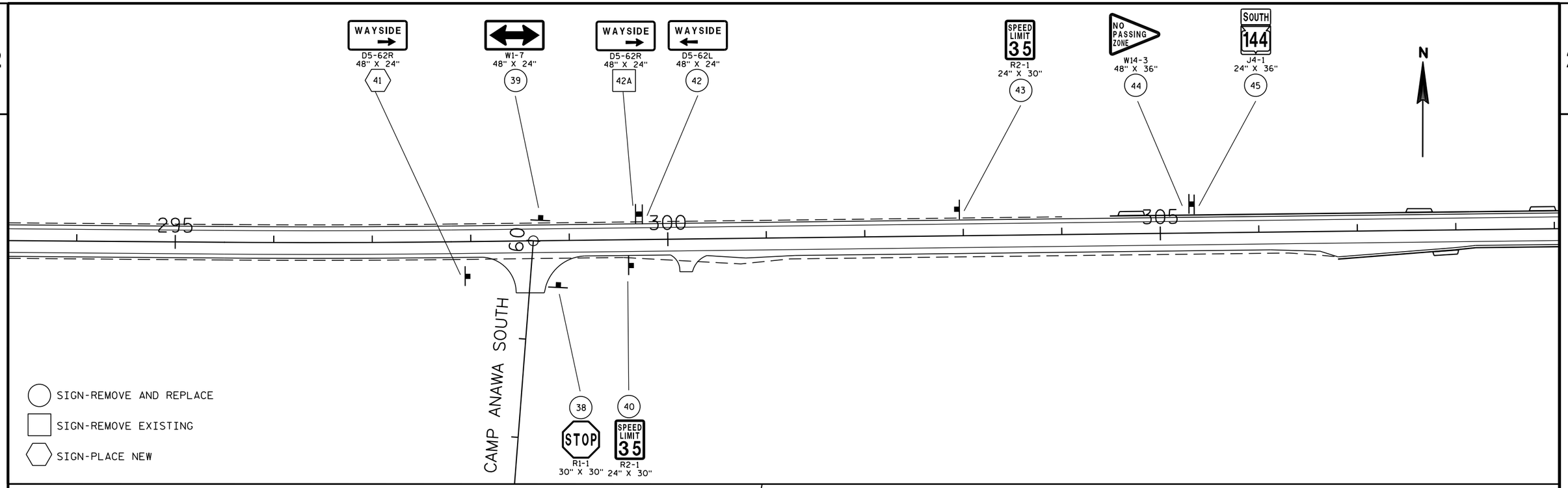
SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 51 E

2



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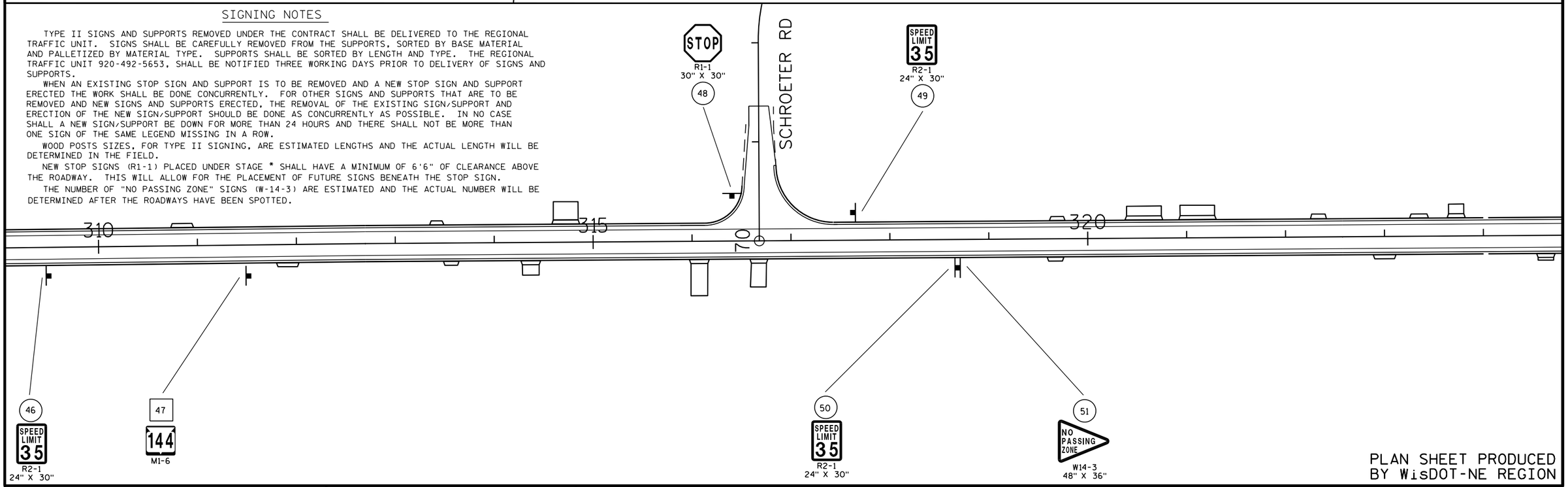
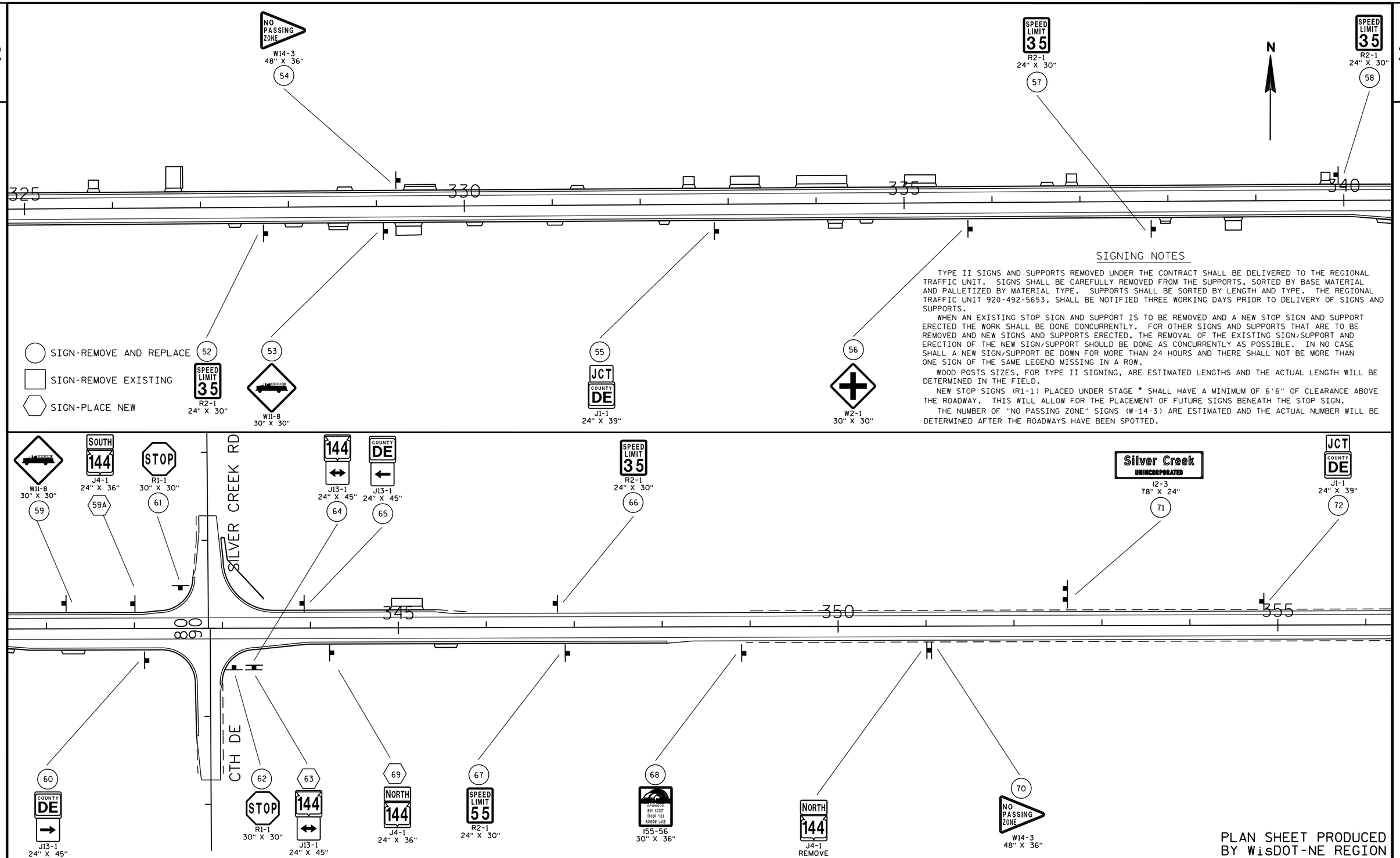


PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 52	E

2



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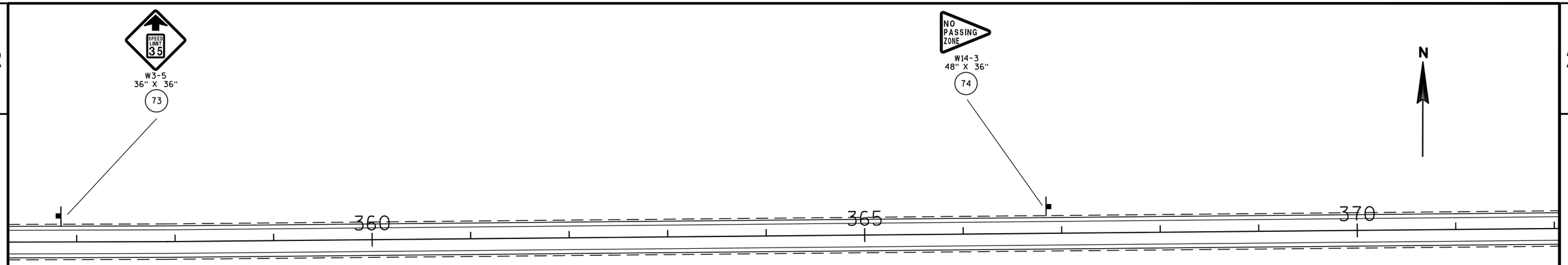
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 53 E



SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

SIGNING NOTES

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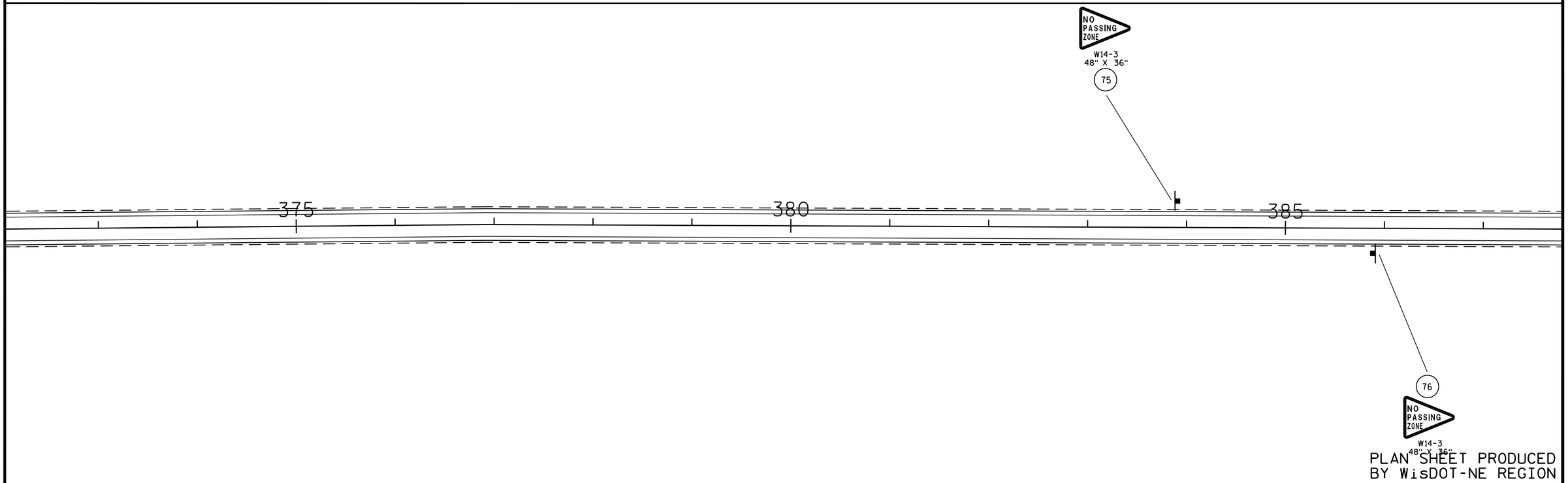
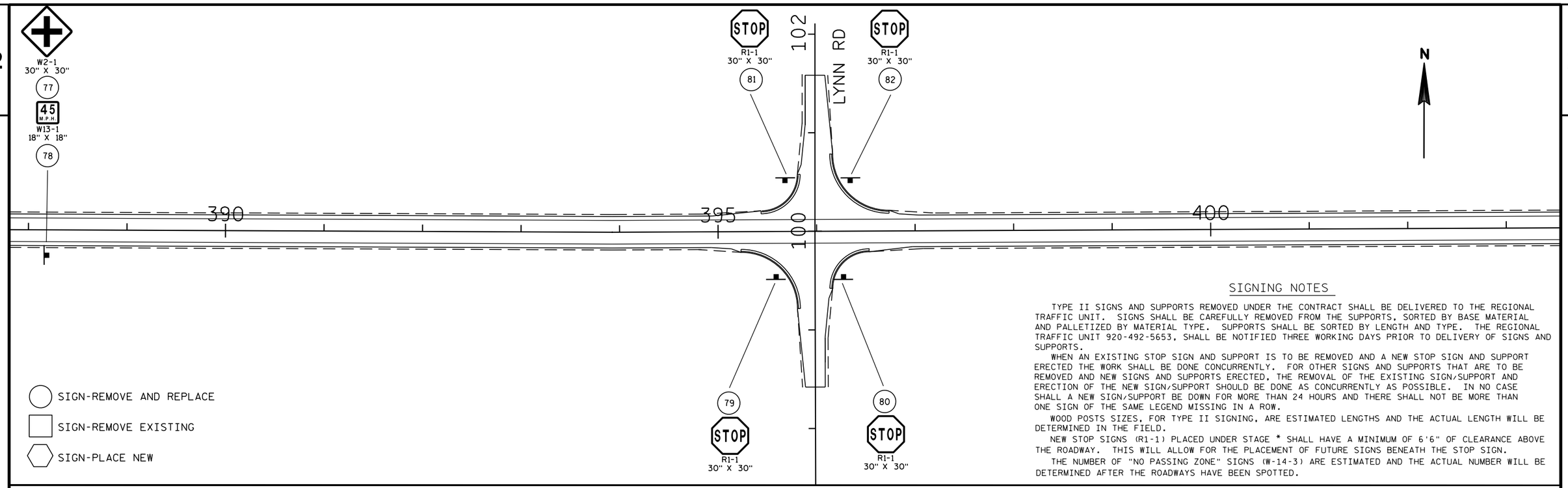


PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 54	E



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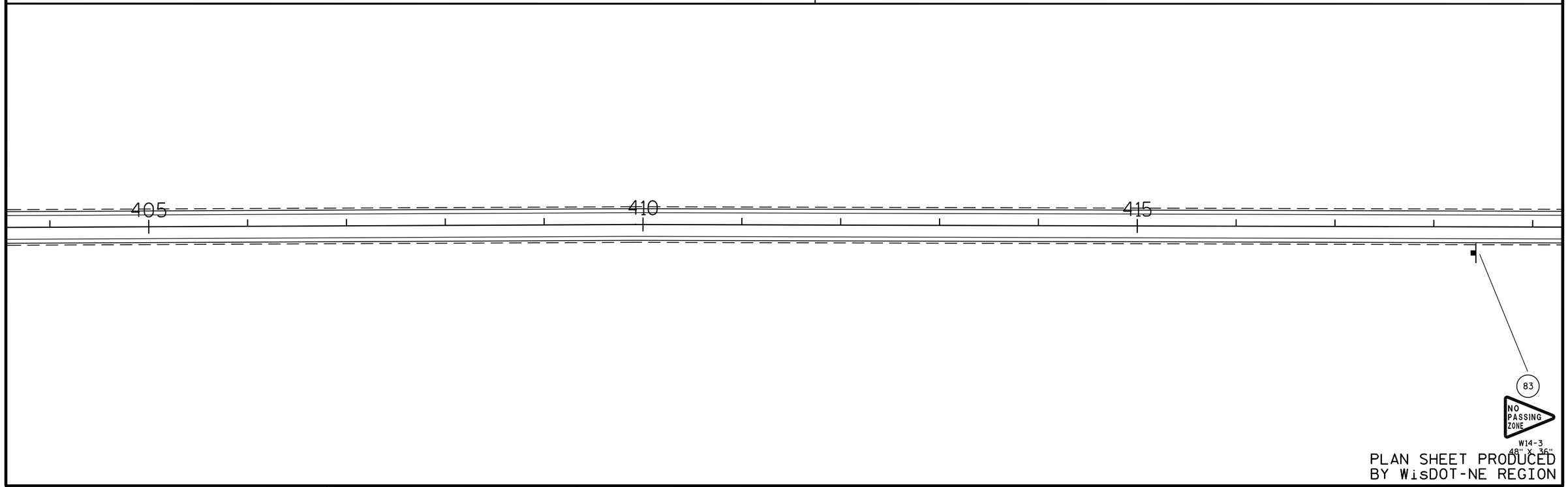
NEW STOP SIGNS (R1-1) PLACED UNDER STAGE * SHALL HAVE A MINIMUM OF 6'6" OF CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN.

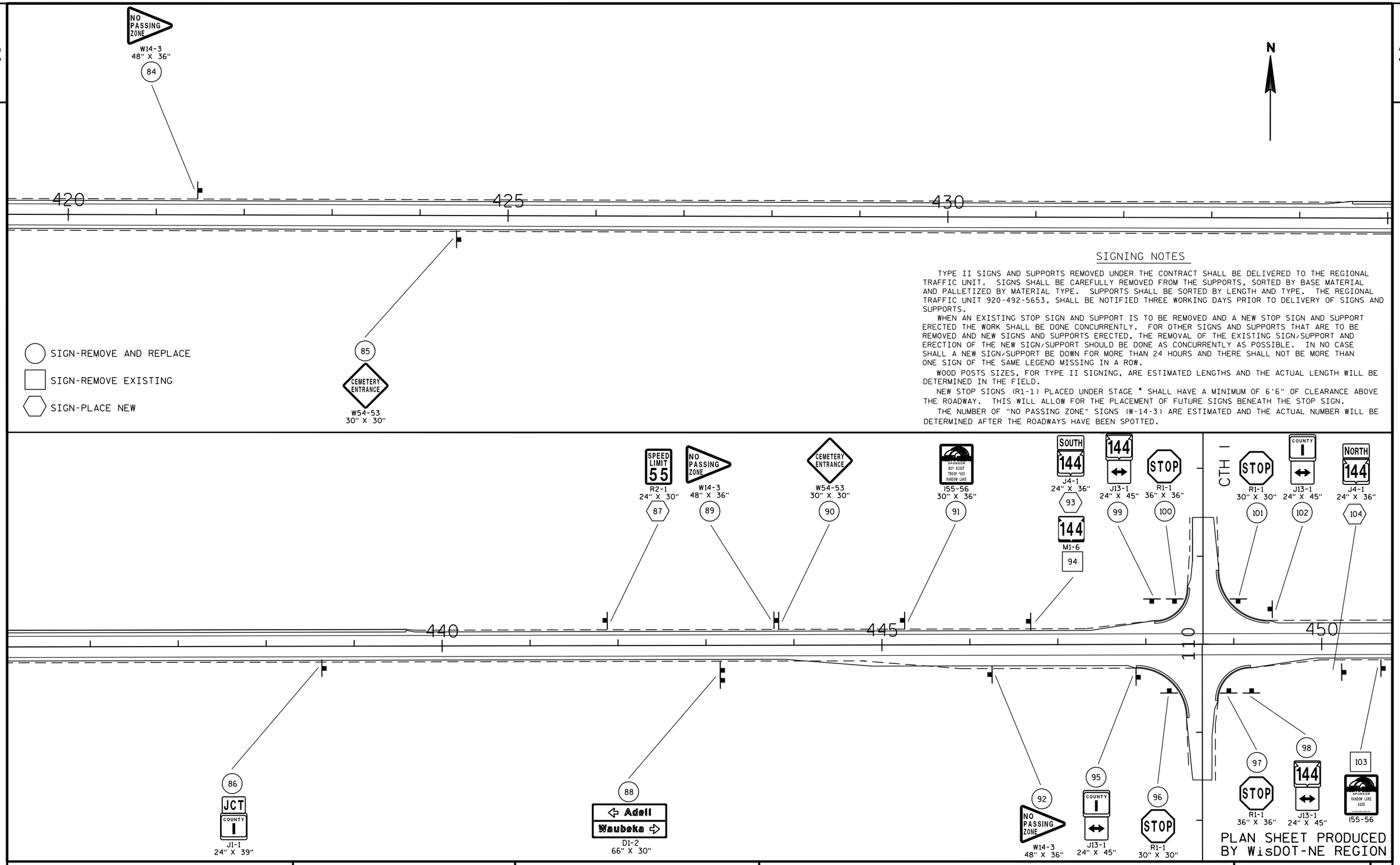
THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.



PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 55	E

2



SIGNING NOTES

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

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PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 56	E

SIGNING NOTES

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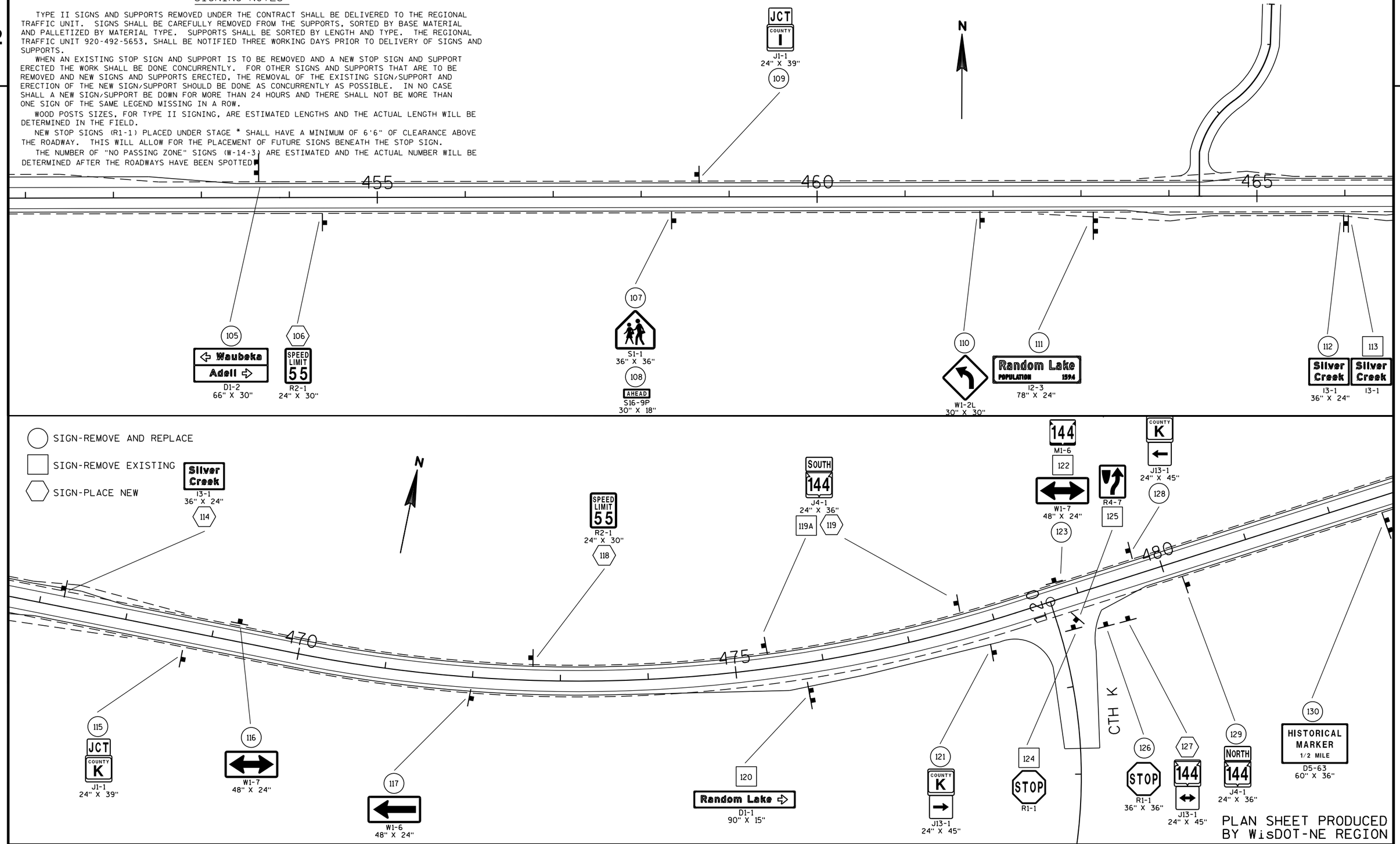
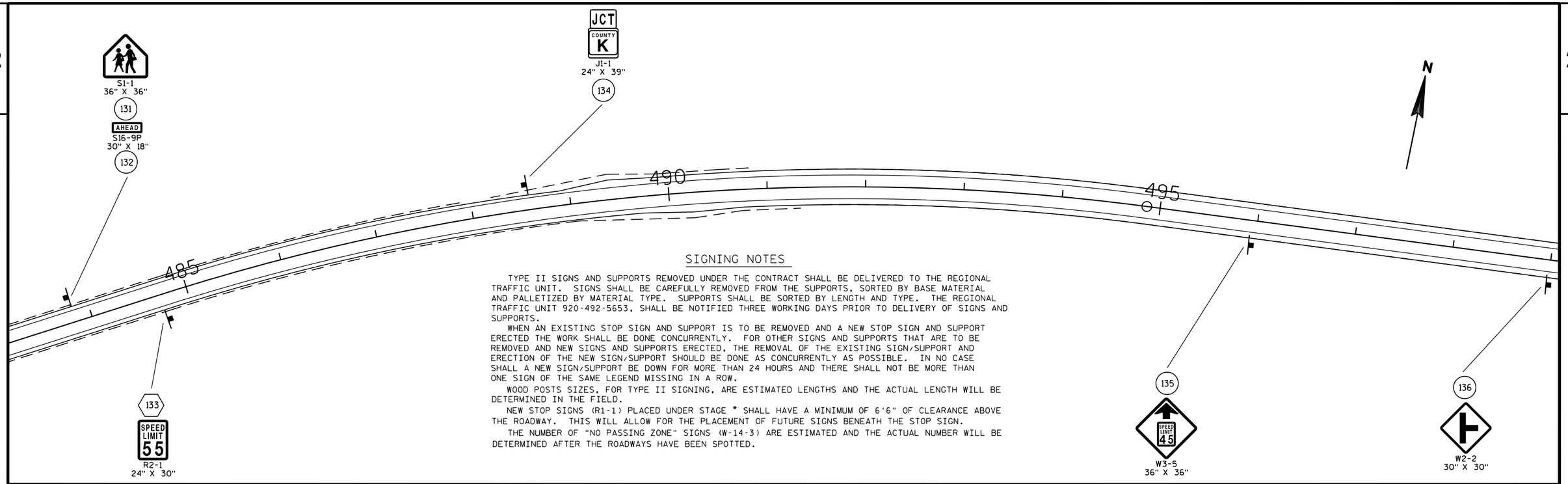


PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 57 E

FILE NAME : N:\spo\traffic\SIGNING\Projects\6525-06-71 STH 144 Sheboygan Co\023209_ps.dgn PLOT DATE : 25-OCT-2016 14:56 PLOT BY : dotets PLOT NAME : PLOT SCALE : 100:1

2



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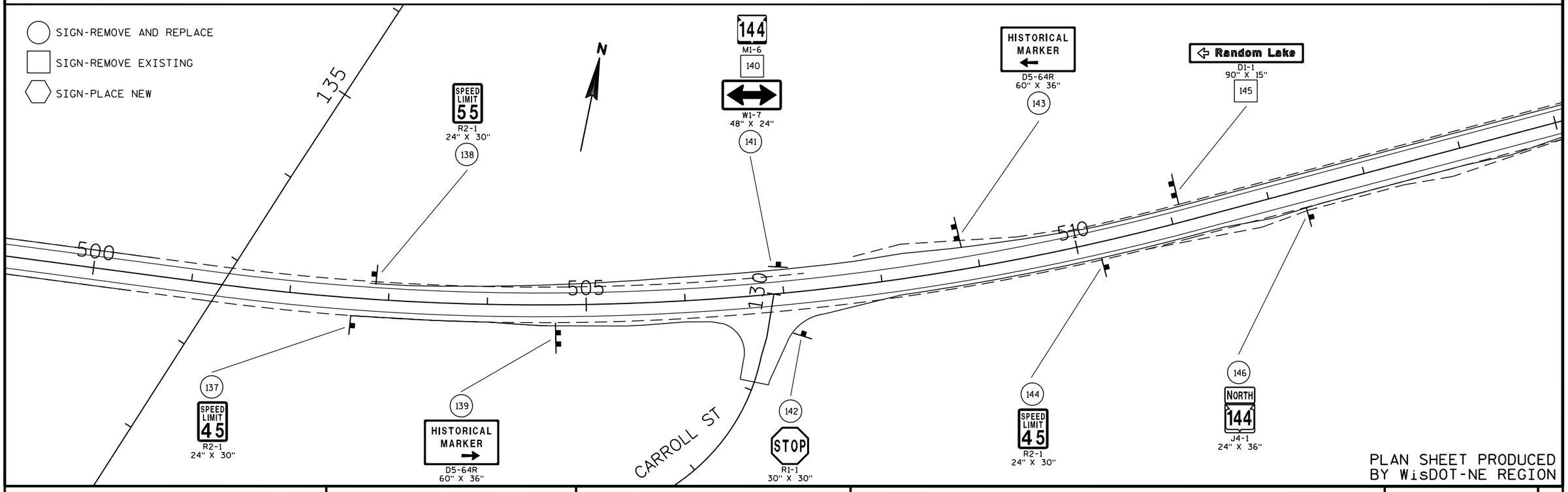

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 58	E

2

SPEED LIMIT 45
R2-1
24" X 30"
147

Random Lake
POPULATION 1594
I2-3
78" X 24"
148

SPEED LIMIT 45
R2-1
24" X 30"
151

W2-2
30" X 30"
154

520 525 530

STARK RD

149
STOP
R1-1
30" X 30"

150
SPEED LIMIT 55
R2-1
24" X 30"

152
W1-2R
30" X 30"
153
50 M.P.H.
W13-1

SIGNING NOTES

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SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

SPEED LIMIT 45
W3-5
36" X 36"
155

W1-6
48" X 24"
157

HISTORICAL MARKER
1/2 MILE
D5-63
60" X 36"
158

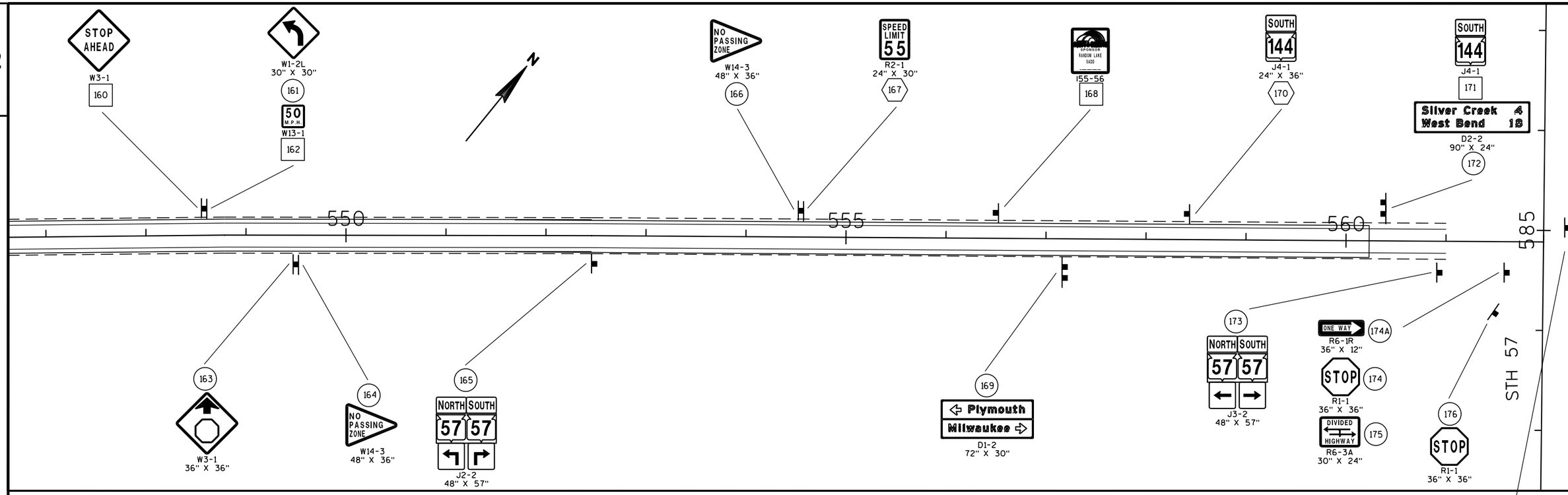
535 540 545

156
W1-6
48" X 24"

159
JCT END
57 144
J1-2
48" X 39"

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 59	E



SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

SIGNING NOTES

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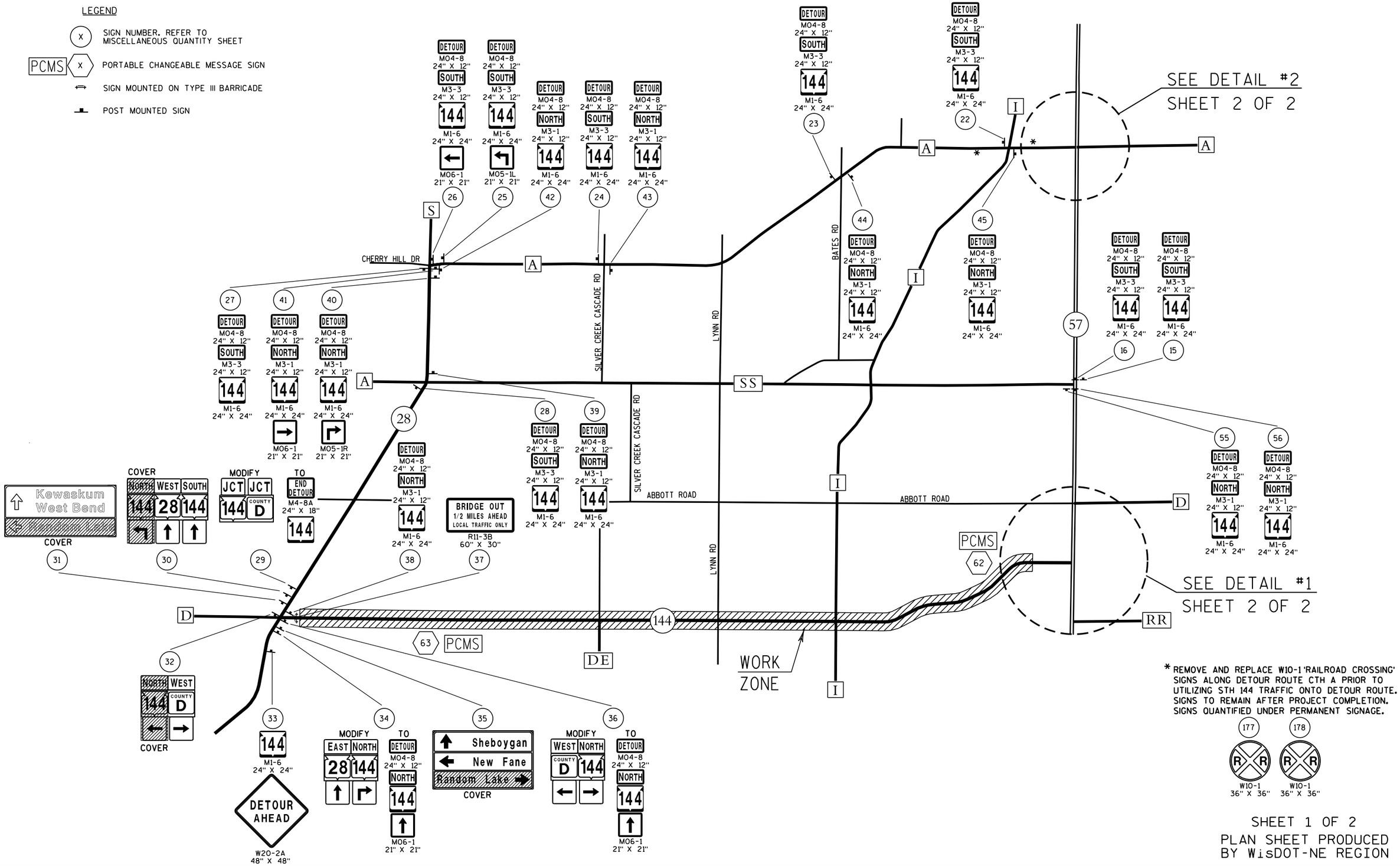
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET 60	E

LEGEND

- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN



* REMOVE AND REPLACE W10-1 'RAILROAD CROSSING' SIGNS ALONG DETOUR ROUTE CTH A PRIOR TO UTILIZING STH 144 TRAFFIC ONTO DETOUR ROUTE. SIGNS TO REMAIN AFTER PROJECT COMPLETION. SIGNS QUANTIFIED UNDER PERMANENT SIGNAGE.

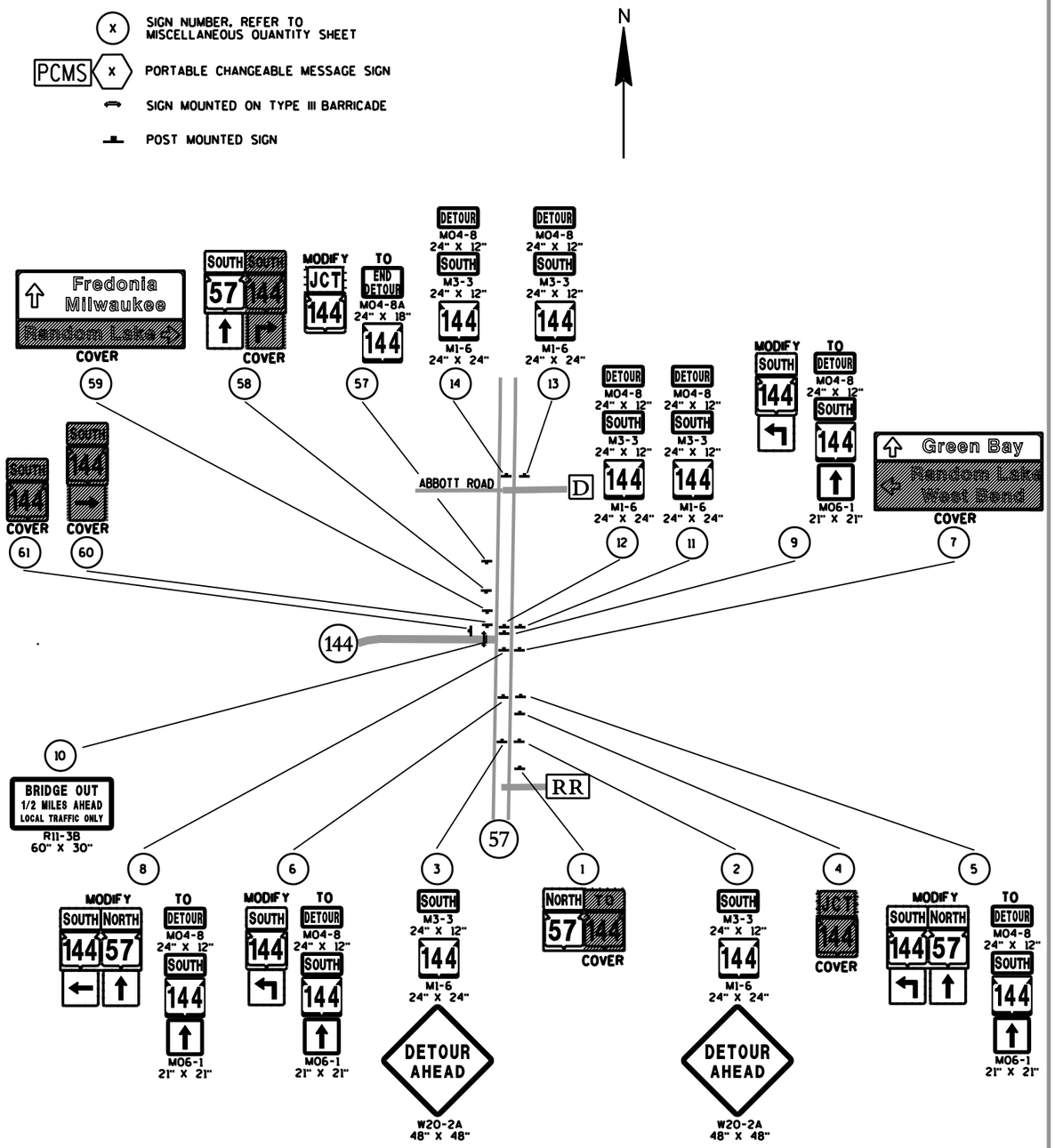
177 W10-1 36" X 36" 178 W10-1 36" X 36"

SHEET 1 OF 2
PLAN SHEET PRODUCED BY WisDOT-NE REGION

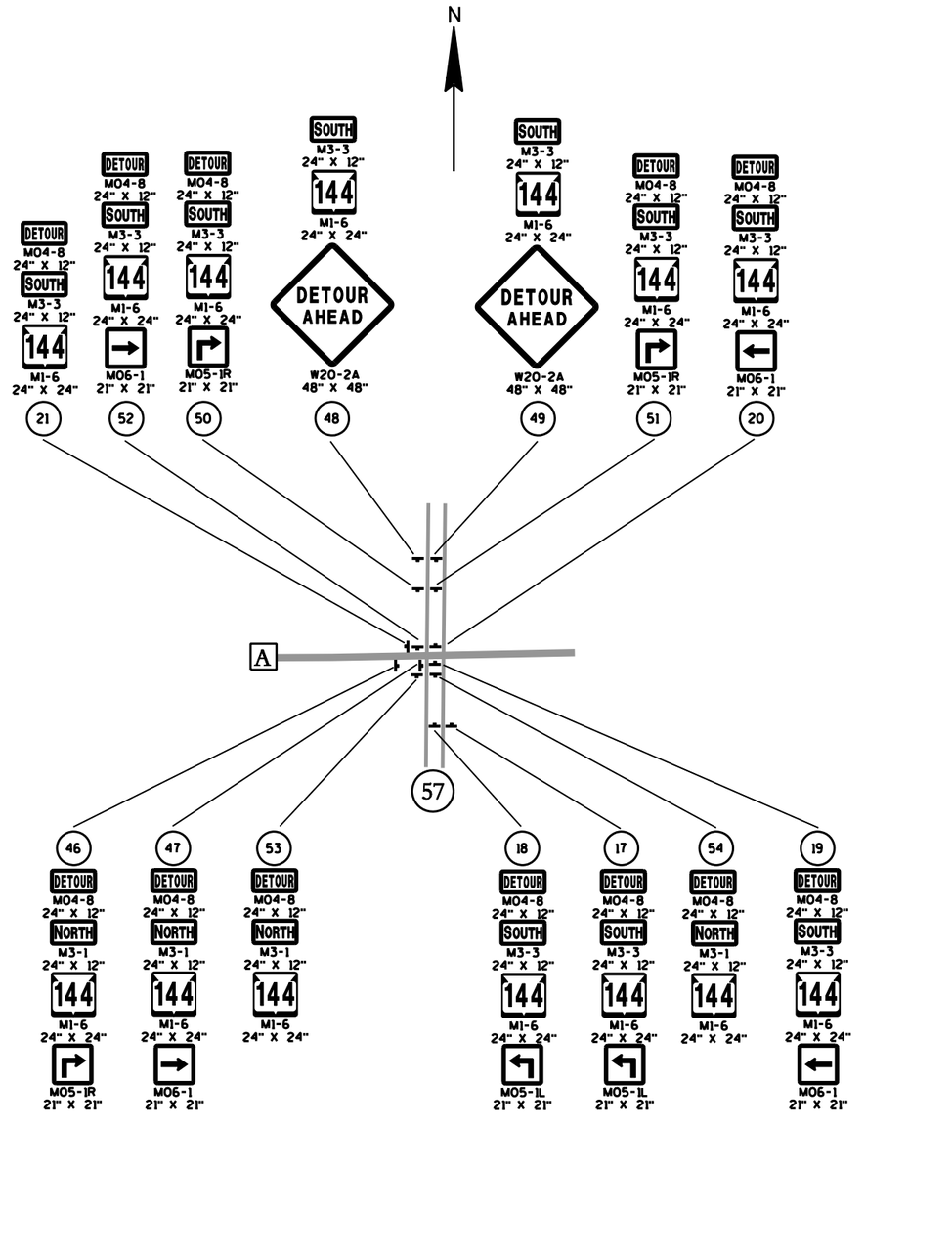
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	DETOUR SIGNING DETAIL	SHEET 61	E

LEGEND

- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- PCMS (X) PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN



DETAIL 1



DETAIL 2

SHEET 2 OF 2
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	DETOUR SIGNING DETAIL	SHEET E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

6525-06-71

Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	6.000	6.000
0020	201.0120	Clearing	ID	518.000	518.000
0030	201.0205	Grubbing	STA	6.000	6.000
0040	201.0220	Grubbing	ID	590.000	590.000
0050	203.0100	Removing Small Pipe Culverts	EACH	7.000	7.000
0060	203.0200	Removing Old Structure (station) 01. STA 281+50	LS	1.000	1.000
0070	203.0200	Removing Old Structure (station) 02. STA 299+99	LS	1.000	1.000
0080	203.0200	Removing Old Structure (station) 03. STA 301+16	LS	1.000	1.000
0090	203.0200	Removing Old Structure (station) 04. STA 316+04	LS	1.000	1.000
0100	203.0200	Removing Old Structure (station) 05. STA 358+30	LS	1.000	1.000
0110	203.0200	Removing Old Structure (station) 06. STA 382+57	LS	1.000	1.000
0120	203.0200	Removing Old Structure (station) 07. STA 403+27	LS	1.000	1.000
0130	203.0200	Removing Old Structure (station) 08. STA 424+01	LS	1.000	1.000
0140	203.0200	Removing Old Structure (station) 09. STA 447+24	LS	1.000	1.000
0150	203.0200	Removing Old Structure (station) 10. STA 448+89	LS	1.000	1.000
0160	203.0200	Removing Old Structure (station) 11. STA 535+65	LS	1.000	1.000
0170	204.0100	Removing Pavement	SY	1,917.000	1,917.000
0180	204.0110	Removing Asphaltic Surface	SY	39.000	39.000
0190	204.0115	Removing Asphaltic Surface Butt Joints	SY	248.000	248.000
0200	204.0125	Removing Asphaltic Surface Milling	TON	16,024.000	16,024.000
0210	204.0150	Removing Curb & Gutter	LF	8,364.000	8,364.000
0220	204.0155	Removing Concrete Sidewalk	SY	24.000	24.000
0230	204.0165	Removing Guardrail	LF	3,720.000	3,720.000
0240	204.0170	Removing Fence	LF	74.000	74.000
0250	204.0185	Removing Masonry	CY	2.000	2.000
0260	204.0190	Removing Surface Drains	EACH	4.000	4.000
0270	204.0210	Removing Manholes	EACH	1.000	1.000
0280	204.0220	Removing Inlets	EACH	11.000	11.000
0290	204.0245	Removing Storm Sewer (size) 01. 12 INCH	LF	906.000	906.000
0300	204.0245	Removing Storm Sewer (size) 02. 15 INCH	LF	320.000	320.000
0310	204.0245	Removing Storm Sewer (size) 03. 24 INCH	LF	298.000	298.000
0320	204.0245	Removing Storm Sewer (size) 04. 30 INCH	LF	308.000	308.000
0330	204.9165.S	Removing (item description) 01. Concrete Steps	SF	44.000	44.000
0340	205.0100	Excavation Common	CY	14,717.000	14,717.000
0350	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	130.000	130.000
0360	208.1100	Select Borrow	CY	1,457.000	1,457.000
0370	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6525-06-71	LS	1.000	1.000
0380	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	633.000	633.000

6525-06-71

Line	Item	Item Description	Unit	Total	Qty
0390	213.0100	Finishing Roadway (project) 01. 6525-06-71	EACH	1.000	1.000
0400	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,750.000	1,750.000
0410	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	13,514.000	13,514.000
0420	305.0500	Shaping Shoulders	STA	187.000	187.000
0430	315.0100	Asphaltic Base	TON	3,934.000	3,934.000
0440	390.0201	Base Patching Asphaltic	TON	2,000.000	2,000.000
0450	416.0160	Concrete Driveway 6-Inch	SY	792.000	792.000
0460	416.0180	Concrete Driveway 8-Inch	SY	93.000	93.000
0470	440.4410	Incentive IRI Ride	DOL	27,220.000	27,220.000
0480	455.0605	Tack Coat	GAL	17,524.000	17,524.000
0490	460.2000	Incentive Density HMA Pavement	DOL	25,170.000	25,170.000
0500	460.2005	Incentive Density PWL HMA Pavement	DOL	17,440.000	17,440.000
0510	460.2010	Incentive Air Voids HMA Pavement	DOL	42,610.000	42,610.000
0520	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	71,140.000	71,140.000
0530	460.5223	HMA Pavement 3 LT 58-28 S	TON	29,590.000	29,590.000
0540	460.5224	HMA Pavement 4 LT 58-28 S	TON	13,130.000	13,130.000
0550	465.0105	Asphaltic Surface	TON	114.000	114.000
0560	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	79.000	79.000
0570	465.0315	Asphaltic Flumes	SY	148.000	148.000
0580	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	31,248.000	31,248.000
0590	502.3200	Protective Surface Treatment	SY	1,849.000	1,849.000
0600	504.0900	Concrete Masonry Endwalls	CY	4.000	4.000
0610	509.0301	Preparation Decks Type 1	SY	148.000	148.000
0620	509.0302	Preparation Decks Type 2	SY	106.000	106.000
0630	509.0500	Cleaning Decks	SY	872.000	872.000
0640	509.1500	Concrete Surface Repair	SF	1,000.000	1,000.000
0650	509.2000	Full-Depth Deck Repair	SY	8.000	8.000
0660	509.2500	Concrete Masonry Overlay Decks	CY	98.000	98.000
0670	509.9005.S	Removing Concrete Masonry Deck Overlay (structure) 01. B-59-104	SY	672.000	672.000
0680	509.9050.S	Cleaning Parapets	LF	489.000	489.000
0690	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	6.000	6.000
0700	520.1030	Apron Endwalls for Culvert Pipe 30-Inch	EACH	2.000	2.000
0710	520.8000	Concrete Collars for Pipe	EACH	3.000	3.000
0720	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	179.000	179.000
0730	521.0130	Culvert Pipe Corrugated Steel 30-Inch	LF	36.000	36.000
0740	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	58.000	58.000
0750	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	200.000	200.000
0760	522.0148	Culvert Pipe Reinforced Concrete Class III 48-Inch	LF	111.000	111.000
0770	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete	EACH	4.000	4.000

6525-06-71

Line	Item	Item Description	Unit	Total	Qty
		24-Inch			
0780	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	7.000	7.000
0790	523.0129	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	64.000	64.000
0800	523.0143	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 43x68-Inch	LF	130.000	130.000
0810	523.0148	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 48x76-Inch	LF	55.000	55.000
0820	523.0419	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	216.000	216.000
0830	523.0424	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	42.000	42.000
0840	523.0519	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	4.000	4.000
0850	523.0524	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2.000	2.000
0860	523.0529	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	2.000	2.000
0870	523.0543	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 43x68-Inch	EACH	4.000	4.000
0880	523.0548	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 48x76-Inch	EACH	2.000	2.000
0890	601.0110	Concrete Curb Type D	LF	84.000	84.000
0900	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	8,485.000	8,485.000
0910	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	1,204.000	1,204.000
0920	602.0405	Concrete Sidewalk 4-Inch	SF	165.000	165.000
0930	602.1500	Concrete Steps	SF	54.000	54.000
0940	606.0200	Riprap Medium	CY	73.000	73.000
0950	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	341.000	341.000
0960	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	2,501.000	2,501.000
0970	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	40.000	40.000
0980	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	254.000	254.000
0990	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	165.000	165.000
1000	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	253.000	253.000
1010	611.0530	Manhole Covers Type J	EACH	3.000	3.000
1020	611.0624	Inlet Covers Type H	EACH	33.000	33.000

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Line	Item	Item Description	Unit	Total	Qty
1030	611.0642	Inlet Covers Type MS	EACH	4.000	4.000
1040	611.0654	Inlet Covers Type V	EACH	1.000	1.000
1050	611.2004	Manholes 4-FT Diameter	EACH	15.000	15.000
1060	611.2005	Manholes 5-FT Diameter	EACH	8.000	8.000
1070	611.3230	Inlets 2x3-FT	EACH	13.000	13.000
1080	611.3901	Inlets Median 1 Grate	EACH	4.000	4.000
1090	611.9800.S	Pipe Grates	EACH	3.000	3.000
1100	612.0106	Pipe Underdrain 6-Inch	LF	135.000	135.000
1110	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	310.000	310.000
1120	612.0700	Drain Tile Exploration	LF	210.000	210.000
1130	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	1.000	1.000
1140	614.0200	Steel Thrie Beam Structure Approach	LF	126.000	126.000
1150	614.0305	Steel Plate Beam Guard Class A	LF	2,878.000	2,878.000
1160	614.0345	Steel Plate Beam Guard Short Radius	LF	74.000	74.000
1170	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	4.000	4.000
1180	614.0390	Steel Plate Beam Guard Short Radius Terminal	EACH	2.000	2.000
1190	614.2300	MGS Guardrail 3	LF	453.000	453.000
1200	614.2310	MGS Guardrail 3 HS	LF	150.000	150.000
1210	614.2500	MGS Thrie Beam Transition	LF	390.000	390.000
1220	614.2610	MGS Guardrail Terminal EAT	EACH	16.000	16.000
1230	614.8010	Anchor Post Assembly Top Mount	EACH	16.000	16.000
1240	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6525-06-71	EACH	1.000	1.000
1250	619.1000	Mobilization	EACH	1.000	1.000
1260	620.0200	Concrete Median Blunt Nose	SF	30.000	30.000
1270	620.0300	Concrete Median Sloped Nose	SF	85.000	85.000
1280	624.0100	Water	MGAL	127.000	127.000
1290	625.0100	Topsoil	SY	1,090.000	1,090.000
1300	625.0500	Salvaged Topsoil	SY	27,812.000	27,812.000
1310	627.0200	Mulching	SY	23,611.000	23,611.000
1320	628.1504	Silt Fence	LF	39,010.000	39,010.000
1330	628.1520	Silt Fence Maintenance	LF	14,820.000	14,820.000
1340	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
1350	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
1360	628.2008	Erosion Mat Urban Class I Type B	SY	12,118.000	12,118.000
1370	628.2023	Erosion Mat Class II Type B	SY	3,110.000	3,110.000
1380	628.7005	Inlet Protection Type A	EACH	4.000	4.000
1390	628.7015	Inlet Protection Type C	EACH	34.000	34.000
1400	628.7504	Temporary Ditch Checks	LF	25.000	25.000

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Line	Item	Item Description	Unit	Total	Qty
1410	628.7555	Culvert Pipe Checks	EACH	124.000	124.000
1420	628.7570	Rock Bags	EACH	200.000	200.000
1430	629.0210	Fertilizer Type B	CWT	23.000	23.000
1440	630.0130	Seeding Mixture No. 30	LB	319.000	319.000
1450	630.0140	Seeding Mixture No. 40	LB	219.000	219.000
1460	633.5200	Markers Culvert End	EACH	20.000	20.000
1470	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	83.000	83.000
1480	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	75.000	75.000
1490	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	5.000	5.000
1500	637.2210	Signs Type II Reflective H	SF	872.380	872.380
1510	637.2230	Signs Type II Reflective F	SF	316.250	316.250
1520	637.2235	Signs Type II Reflective F Folding	SF	36.000	36.000
1530	638.2602	Removing Signs Type II	EACH	143.000	143.000
1540	638.3000	Removing Small Sign Supports	EACH	159.000	159.000
1550	642.5401	Field Office Type D	EACH	1.000	1.000
1560	643.0100	Traffic Control (project) 01. 6525-06-71	EACH	1.000	1.000
1570	643.0300	Traffic Control Drums	DAY	1,300.000	1,300.000
1580	643.0420	Traffic Control Barricades Type III	DAY	6,678.000	6,678.000
1590	643.0705	Traffic Control Warning Lights Type A	DAY	11,932.000	11,932.000
1600	643.0900	Traffic Control Signs	DAY	7,266.000	7,266.000
1610	643.0920	Traffic Control Covering Signs Type II	EACH	11.000	11.000
1620	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
1630	643.2000	Traffic Control Detour (project) 01. 6525-06-71	EACH	1.000	1.000
1640	643.3000	Traffic Control Detour Signs	DAY	20,128.000	20,128.000
1650	645.0120	Geotextile Type HR	SY	230.000	230.000
1660	646.0106	Pavement Marking Epoxy 4-Inch	LF	91,726.000	91,726.000
1670	646.0126	Pavement Marking Epoxy 8-Inch	LF	1,088.000	1,088.000
1680	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	16,832.000	16,832.000
1690	646.0600	Removing Pavement Markings	LF	299.000	299.000
1700	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	70,146.000	70,146.000
1710	647.0110	Pavement Marking Railroad Crossings Epoxy	EACH	2.000	2.000
1720	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	20.000	20.000
1730	647.0606	Pavement Marking Island Nose Epoxy	EACH	2.000	2.000
1740	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	50.000	50.000
1750	648.0100	Locating No-Passing Zones	MI	7.000	7.000
1760	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	32,146.000	32,146.000
1770	650.4000	Construction Staking Storm Sewer	EACH	44.000	44.000
1780	650.4500	Construction Staking Subgrade	LF	12,913.000	12,913.000
1790	650.5000	Construction Staking Base	LF	7,393.000	7,393.000

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Line	Item	Item Description	Unit	Total	Qty
1800	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	10,095.000	10,095.000
1810	650.6000	Construction Staking Pipe Culverts	EACH	11.000	11.000
1820	650.6500	Construction Staking Structure Layout (structure) 01. Wall Modular Block Gravity	LS	1.000	1.000
1830	650.8000	Construction Staking Resurfacing Reference	LF	35,973.000	35,973.000
1840	650.9910	Construction Staking Supplemental Control (project) 01. 6525-06-71	LS	1.000	1.000
1850	650.9920	Construction Staking Slope Stakes	LF	12,913.000	12,913.000
1860	690.0150	Sawing Asphalt	LF	1,741.000	1,741.000
1870	690.0250	Sawing Concrete	LF	9,429.000	9,429.000
1880	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,100.000	2,100.000
1890	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,400.000	2,400.000
1900	SPV.0060	Special 01. Precast Concrete Box Culvert Extension 4 FT x 3 FT	EACH	1.000	1.000
1910	SPV.0060	Special 02. Precast Concrete Box Culvert End Section 4 FT x 3 FT	EACH	1.000	1.000
1920	SPV.0060	Special 03. Salvage Box Culvert Grate	EACH	1.000	1.000
1930	SPV.0060	Special 04. Removing Carbide Pit Generator	EACH	1.000	1.000
1940	SPV.0060	Special 05. HMA Percent Within Limits (PWL) Test Strip	EACH	1.000	1.000
1950	SPV.0090	Special 01. 16 Gauge Galvanized Metal Flashing	LF	252.000	252.000
1960	SPV.0090	Special 02. Handrail Special	LF	12.000	12.000
1970	SPV.0120	Special 01. Water For Seeded Areas	MGAL	340.000	340.000
1980	SPV.0165	Special 01. Wall Modular Block Gravity LRFD	SF	1,576.000	1,576.000

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CLEARING AND GRUBBING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	201.0105 STA	201.0120 ID	201.0205 STA	201.0220 ID	REMARKS
0010	259+00	-	260+00	STH 144 RT	1		1		
	306+00	-	307+00	STH 144 RT	1		1		
			277+52	STH 144 RT		30		30	
			309+30	STH 144 LT		18		18	
			309+68	STH 144 LT		24		24	
			309+98	STH 144 LT		12		12	
			309+98	STH 144 LT		24		24	
			311+24	STH 144 LT		30		30	
			311+52	STH 144 LT		12		12	
			311+95	STH 144 LT		36		36	
			312+44	STH 144 RT		12		12	
			312+48	STH 144 RT		12		12	
			312+62	STH 144 RT		10		10	
			312+68	STH 144 RT		12		12	
			312+94	STH 144 RT		10		10	
			313+00	STH 144 RT		10		10	
			315+33	STH 144 RT		18		18	
			315+54	STH 144 RT		24		24	
			315+65	STH 144 RT		36		36	
			324+75	STH 144 RT		12		12	
			326+47	STH 144 RT		8		8	
			332+73	STH 144 LT		--		36	Grubbing Only
			332+93	STH 144 LT		--		36	Grubbing Only
			337+18	STH 144 RT		12		12	
			382+77	STH 144 RT		36		36	
			424+10	STH 144 RT		30		30	
	466+00		467+00	STH 144 RT	1		1		
	512+00	-	513+00	STH 144 RT	1		1		
			512+75	STH 144 LT		30		30	
			514+05	STH 144 LT		30		30	
			514+20	STH 144 LT		30		30	
	516+00	-	517+00	STH 144 RT	1		1		
	531+00	-	532+00	STH 144 LT	1		1		
				TOTAL 0010	6	518	6	590	

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	LOCATION	SIZE	LENGTH	TYPE	203.0100 EACH	REMARKS
0010	249+40	STH 144 RT	18"	91	CMCP	1	
	434+98	STH 144 LT	18	42	CMCP	1	
	465+00	STH 144 LT	18"	42	CMCP	1	
	511+55	STH 144 RT	18"	42	CMCP	1	
	20+26	LONE PINE	18"	91	CMCP	1	
	80+28	SILVER CREEK ROAD	18"	105	CMCP	1	
	99+73	LYNN ROAD	18"	57	CMCP	1	
		TOTAL 0010				7	

REMOVING PAVEMENT

CATEGORY	STATION	LOCATION	204.0100 SY	REMARKS
0010	281+48	STH 144	16	
	299+00	STH 144	22	
	301+16	STH 144	27	
	306+81	STH 144	18	
	309+53	STH 144	31	
	311+70	STH 144	31	
	313+88	STH 144	36	
	314+38	STH 144 RT	35	PE
	314+73	STH 144 LT	80	PE
	316+05	STH 144	18	
	316+05	STH 144 RT	83	PE
	316+32	STH 144	20	
	316+68	STH 144 RT	63	PE
	317+46	STH 144	20	
	318+85	STH 144	20	
	321+14	STH 144 LT	49	CE
	321+81	STH 144	27	
	325+04	STH 144	20	
	325+80	STH 144 LT	24	PE
	328+57	STH 144 RT	31	PE
	328+84	STH 144	27	
	329+37	STH 144 RT	62	PE
	329+51	STH 144 LT	48	PE
	332+56	STH 144 LT	19	PE
	332+74	STH 144	20	
	334+06	STH 144 LT	128	CE
	334+22	STH 144 RT	30	PE
	336+90	STH 144 LT	36	CE
	339+80	STH 144 LT	36	CE
	342+69	STH 144	20	
	358+30	STH 144	70	
	382+87	STH 144	29	
	396+04	STH 144 RT	215	
	403+27	STH 144	18	
	418+06	STH 144	182	
	424+01	STH 144	36	
	436+02	STH 144 LT	62	CE
	447+23	STH 144	148	
	448+89	STH 144	20	
	449+42	STH 144	20	
	532+63	STH 144	20	
		TOTAL 0010	1917	

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FILE NAME : N:\PDS\...\030200_mq.pptx PLOT DATE : June 14, 1911 PLOT BY : A.R.H. PLOT NAME : PLOT SCALE : 1:1

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	TO	STATION	LOCATION	204.0110 SY	REMARKS
0010	201+01	-	202+75	STH 144 LT	39	
				TOTAL 0010	39	

REMOVING ASPHALTIC SURFACE MILLING

CATEGORY	STATION	TO	STATION	LOCATION	204.0125 TON	REMARKS
0010	201+00	-	234+02	STH 144	1644	
	234+41	-	250+60	STH 144	807	
	250+90	-	257+26	STH 144	341	
	257+88	-	304+00	STH 144	2327	
	304+00	-	342+35	STH 144	1406	
	342+35		395+98	STH 144	2557	
	395+98		448+64	STH 144	2535	
	448+64		465+62	STH 144	835	
	465+62		500+49	STH 144	330	
	502+71		513+11	STH 144	121	
	513+11		561+23	STH 144	2361	
				Lone Pine	73	
				Riverview	65	
				Camp awana N	19	
				Camp Awana S	38	
				Schroeter	73	
				Silver Creek	63	
				Lynn Road (N)	77	
				Lynn Road (S)	72	
				CTH I (N)	76	
				CTH I (S)	76	
				CTH K	27	
				Carroll	13	
				Stark	88	
				TOTAL 0010	16024	

REMOVING ASPHALTIC SURFACE BUTT JOINTS

CATEGORY	STATION	LOCATION	204.0115 SY
0010	201+00	STH 144	5
	210+25	STH 144 RT	5
	212+11	STH 144 RT	5
	234+01	STH 144	8
	234+41	STH 144	8
	250+60	STH 144	8
	250+90	STH 144	8
	257+27	STH 144	8
	257+88	STH 144	8
	262+67	STH 144 RT	10
	292+58	STH 144 RT	4
	293+85	STH 144 RT	4
	295+86	STH 144 LT	3
	298+13	STH 144 LT	3
	423+03	STH 144 LT	4
	426+89	STH 144 LT	5
	468+46	STH 144 RT	7
	500+49	STH 144	10
	502+72	STH 144	10
	517+38	STH 144 RT	5
	517+89	STH 144 RT	3
	518+36	STH 144 LT	4
	518+57	STH 144 RT	3
	518+96	STH 144 RT	3
	519+72	STH 144 RT	5
	520+39	STH 144 RT	3
	520+39	STH 144 LT	4
	522+65	STH 144 LT	4
	524+77	STH 144 LT	6
	528+96	STH 144 LT	2
	560+23	STH 144	7
	20+96	LONE PINE	4
	28+84	RIVERVIEW	4
	29+30	RIVERVIEW LT	2
	40+36	CAMP ANAWA (N)	5
	59+50	CAMP ANAWA (S)	6
	71+36	SCHROETER	5
	81+28	SILVER CREEK	5
	88+28	CTH DE	5
	98+42	LYNN (S)	5
	101+59	LYNN (N)	4
	108+75	CTH I (S)	6
	111+44	CTH I (N)	5
	119+00	CTH K	9
	129+08	CARROLL	6
	168+95	STARK	5
		TOTAL 0010	248

REMOVING CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	204.0150 LF	REMARKS
0010	304+47	-	315+62	STH 144 LT	1115	
	306+61	-	342+35	STH 144 RT	3574	
	318+00	-	342+46	STH 144 LT	2455	
	343+07	-	348+32	STH 144 RT	524	
	434+60	-	439+32	STH 144 LT	472	
	70+15	-	70+76	SCHROETER LT & RT	157	
	119+48	-	119+75	CTH K RT	67	Island
				TOTAL 0010	8364	

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION	LOCATION	204.0155 SY	REMARKS
0010	311+57	STH 144 LT	3	
	326+72	STH 144 RT	8	
	326+80	STH 144 LT	8	
	331+98	STH 144 LT	3	
	339+27	STH 144 RT	2	
		TOTAL 0010	24	

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 LF	REMARKS
0010	233+15	-	233+95	STH 144, RT	80	
	233+25	-	234+09	STH 144, LT	84	
	234+37	-	235+68	STH 144, RT	131	
	234+51	-	235+31	STH 144, LT	80	
	249+85	-	250+67	STH 144, RT	82	
	250+83	-	251+52	STH 144, LT	69	
	249+71	-	250+53	STH 144, LT	82	
	250+97	-	251+79	STH 144, RT	82	
	256+43	-	257+26	STH 144, RT	83	
	256+43	-	257+26	STH 144, LT	83	
	257+92	-	258+72	STH 144, RT	80	
	257+92	-	258+72	STH 144, LT	80	
	464+30	-	466+07	STH 144, RT	177	INCLUDES W-RAIL AND POSTS
	465+32	-	466+96	STH 144, LT	164	INCLUDES W-RAIL AND POSTS
	493+63	-	500+28	STH 144, RT	665	
	490+59	-	500+49	STH 144, LT	990	
	501+00	-	503+78	STH 144, RT	278	
	501+03	-	505+18	STH 144, LT	415	
	514+18	-	514+03	STH 144, RT	15	
				TOTAL 0010	3720	

REMOVING FENCE

CATEGORY	STATION	TO	STATION	LOCATION	204.0170 SF
0010	311+11		311+85	STH 144 LT	74
				TOTAL 0010	74

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REMOVING MASONRY

CATEGORY	STATION	LOCATION	204.0185 CY	REMARKS
0010	513+11	STA 144 LT	2	
		TOTAL 0010	2	

REMOVING SURFACE DRAINS

CATEGORY	STATION	LOCATION	204.0190 EACH
0010	306+72	STH 144 RT	1
	348+21	STH 144 RT	1
	434+80	STH 144 LT	1
	439+61	STH 144 LT	1
		TOTAL 0010	4

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REMOVING STORM SEWER SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245 REMOVING STORM SEWER 01. 12 INCH LF	204.0245 REMOVING STORM SEWER 02. 15 INCH LF	204.0245 REMOVING STORM SEWER 03. 24 INCH LF	204.0245 REMOVING STORM SEWER 04. 30 INCH LF
0010	315+92	-	316+37	STH 144 LT						60
	316+04			STH 144 RT		1				
	316+37			STH 144 LT	1					
	316+37	-	318+86	STH 144 LT						248
			318+86	STH 144		2	12			
	318+86	-	321+83	STH 144 LT					298	
			321+83	STH 144 LT			6			
			321+89	STH 144		2	31			
	321+83	-	325+04	STH 144 LT				320		
			321+94	STH 144 RT		1				
			325+04	STH 144		2	28			
	325+04	-	328+83	STH 144 LT			380			
			32+88	STH 144		2	30			
	328+83	-	332+74	STH 144 LT			390			
			332+74	STH 144		1	29			
				TOTAL 0010	1	11	906	320	298	308

REMOVING CONCRETE STEPS

CATEGORY	STATION	LOCATION	204.9165.S SF
0010	311+57	STH 144 LT	44
		TOTAL 0010	44

EXCAVATING, HAULING AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

CATEGORY	STATION	TO	STATION	LOCATION	205.0501 CY	REMARKS
0010	321+02	-	321+13	STH 144 LT	130	DURING STORM SEWER EXCAVATION
				TOTAL 0010	130	

PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) 01. 6525-06-71

CATEGORY	STATION	TO	STATION	LOCATION	211.0100 LS
0010	201+01	-	560+23	STH 144	1
				TOTAL 0010	1

FROST HEAVE SUMMARY

CATEGORY	STATION	LOCATION	205.0100** EXCAVATION COMMON CY	208.0100 SELECT BORROW CY	305.0120** BASE AGGREGATE DENSE 1 1/4-INCH TON	460.5223** HMA PAVEMENT 3 LT 58-28 S TON	REMARKS
0010	281+50	STH 144	325	128	279	14	FROST HEAVE LOCATION
	358+30	STH 144	455	309	467	21	FROST HEAVE LOCATION
	396+04	STH 144	480	297	307	30	FROST HEAVE LOCATION
	418+06	STH 144	646	438	520	25	FROST HEAVE LOCATION
	447+24	STH 144	277	285	421	20	FROST HEAVE LOCATION
		TOTAL 0010	2183	1457	1994	110	

**Additional quantity listed elsewhere in plan

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

CATEGORY	STATION	TO	STATION	LOCATION	211.0400 STA
0010	201+01	-	234+07	STH 144 LT	34
	201+01	-	233+96	STH 144 RT	34
	234+49	-	250+53	STH 144 LT	17
	238+04	-	250+67	STH 144 RT	14
	250+81	-	257+31	STH 144 LT	8
	250+96	-	257+26	STH 144 RT	7
	257+88	-	304+00	STH 144 LT	47
	257+89	-	306+80	STH 144 RT	50
	349+00	-	395+43	STH 144 LT	47
	348+34	-	395+23	STH 144 RT	48
	396+74	-	448+40	STH 144 LT	53
	396+53	-	447+69	STH 144 RT	52
	447+39	-	500+57	STH 144 LT	54
	449+19	-	500+41	STH 144 RT	52
	502+81	-	560+23	STH 144 LT	58
	503+63	-	560+23	STH 144 RT	58
				TOTAL 0010	633

SHAPING SHOULDERS

CATEGORY	STATION	TO	STATION	LOCATION	305.0500 STA
0010	465+93	-	500+57	STH 144 LT	36
	465+60	-	500+41	STH 144 RT	36
	502+81	-	560+23	STH 144 LT	58
	503+63	-	560+23	STH 144 RT	58
					187

Division	From/To Station	Location	205.0100** Common Excavation (1) Cut (2)	Salvaged/ Unusable Pavement Material (3)	Available Material (4)	Unexpanded Fill	Expanded Fill (5) Factor 1.33	Mass Ordinate +/- (6)	HAUL OUT	HAUL IN
Division 1										
	209+67-212+50	STH 144	12	0	12	53	70	-58	0	58
	231+10-239+05	STH 144	561	0	561	237	315	246	246	0
	248+32-260+75	STH 144	113	0	113	902	1,200	-1,087	0	1,087
	279+75-282+50	STH 144	159	0	159	105	140	19	19	0
	298+70-308+14	STH 144	415	44	371	227	302	69	69	0
	308+14-324+00	STH 144	2,245	243	2,002	223	296	1,705	1,705	0
	324+00-348+50	STH 144	3,201	353	2,848	157	209	2,639	2,639	0
	357+25-359+70	STH 144	57	0	57	159	212	-155	0	155
	381+50-383+50	STH 144	41	0	41	206	274	-233	0	233
	394+35-397+75	STH 144	384	0	384	5	7	376	376	0
	402+50-403+50	STH 144	0	0	0	26	34	-34	0	34
	423+25-424+75	STH 144	19	0	19	347	462	-442	0	442
	434+50-439+70	STH 144	755	42	713	1	1	712	712	0
	443+90-453+72	STH 144	597	2	595	396	526	69	69	0
	462+76-469+00	STH 144	351	0	351	116	155	196	196	0
	489+00-509+50	STH 144	65	0	65	462	614	-549	0	549
	510+75-514+71	STH 144	128	0	128	33	44	83	83	0
	515+35-517+25	STH 144	0	0	0	67	89	-89	0	89
	531+09-536+30	STH 144	9	0	9	205	272	-263	0	263
	20+12-20+95	LONE PINE	2	0	2	47	63	-61	0	61
	20+80-29+60	RIVERVIEW	4	0	4	73	97	-93	0	93
	70+56-71+36.14	SCHROETER	4	0	4	7	10	-5	0	5
	88+30-89+48	CTH DE	93	0	93	2	2	90	90	0
	80+58-81+28	SILVER CREEK RD	20	0	20	5	6	14	14	0
	98+25-99+84	LYNN (S)	386	0	386	17	22	363	363	0
	100+58-101+50	LYNN (N)	209	0	209	3	4	205	205	0
	108+50-109+89	CTH I (S)	115	0	115	148	197	-83	0	83
	110+16-111+40	CTH I (N)	123	0	123	99	132	-9	0	9
	0+50-2+05	PE	516	0	516	0	0	516	516	0
Division 1 Subtotal			10,584	684	9,899	4,328	5,757	4,142	7,304	3,161
Grand Total			10,584	684	9,899	4,328	5,757	4,142	7,304	3,161
		Total Common Exc								

** Additional quantity elsewhere

1) Common Excavation is Cut. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) Salvaged/Unusable Pavement Material
4) Available Material = Cut - Salvaged/Unusuable Pavement Material
5) Expanded Fill. Factor = 1.25
6) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a short

BASE AGGREGATE DENSE SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.120** BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
0010	201+01	-	234+07	STH 144 LT	97	-	1
	201+01	-	233+96	STH 144 RT	101	-	1
	234+49	-	250+53	STH 144 LT	49	-	0
	238+04	-	250+67	STH 144 RT	39	-	0
	250+81	-	257+31	STH 144 LT	20	-	0
	250+96		257+26	STH 144 RT	19	-	0
	257+88		304+00	STH 144 LT	141	-	1
	257+89		306+80	STH 144 RT	148		1
	304+00		316+19	STH 144 LT	-	960	10
	306+80		316+00	STH 144 RT	-	1232	12
			306+81	STH 144	-	19	0
			309+53	STH 144	-	9	0
			311+70	STH 144	-	9	0
			313+88	STH 144	-	9	0
	316+32		317+46	STH 144 LT	-	53	1
			316+32	STH 144	-	9	0
	317+43		342+29	STH 144 LT	-	1959	20
	316+00		342+32	STH 144 RT	-	2844	28
			317+46	STH 144	-	9	0
			318+85	STH 144	-	9	0
			321+81	STH 144	-	9	0
			325+84	STH 144	-	9	0
			332+74	STH 144	-	9	0
	342+28		342+69	STH 144 RT	-	19	0
	342+28		342+69	STH 144 LT	-	19	0
			342+69	STH 144	-	9	0
	342+69		343+27	STH 144 LT	-	27	0
	343+38		348+45	STH 144 RT	-	416	4
	343+57		345+42	STH 144 LT	-	180	2
	349+00		395+43	STH 144 LT	142	-	1
	348+34		395+23	STH 144 RT	143	-	1
			382+87	STH 144	-	43	0
	396+74		448+40	STH 144 LT	142	-	1
	396+53		447+69	STH 144 RT	157	-	2
	396+04		396+70	STH 144 RT	-	140	1
			403+27	STH 144	-	43	0
			424+01	STH 144	-	38	0
	435+65		439+00	STH 144 LT	-	264	3
	443+89		447+89	STH 144 RT	-	607	6
			447+23	STH 144	-	43	0
	447+10		448+10	STH 144 RT	-	121	1
				SUBTOTAL	1198	9117	97

**Additional quantity listed elsewhere in plan

BASE AGGREGATE DENSE SUMMARY (CONTINUED)

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.120** BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
	449+19		500+41	STH 144 RT	157	-	2
			448+89	STH 144	-	43	0
			449+42	STH 144	-	21	0
	449+18		450+19	STH 144 RT	-	121	1
	449+40		453+90	STH 144 LT	-	667	7
	502+81		560+23	STH 144 LT	176	-	2
	503+63		560+23	STH 144 RT	166	-	2
				LONE PINE LT & RT	1	75	1
				RIVERVIEW LT & RT	3	301	3
				CAMP ANAWA (N) LT &	1	-	0
				CAMP ANAWA (S) LT &	1	-	0
				SCHROETER	6	19	0
				CTH DE LT & RT	9	290	3
				SILVER CREEK	2	80	1
				LYNN LT & RT	11	226	2
				CTH I LT & RT	14	352	4
				PE	5	208	2
				SUBTOTAL	552	2403	30
				TOTAL 0010	1750	11520	127

**Additional quantity listed elsewhere in plan

ASPHALTIC BASE AND EXCAVATION SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	315.0100 ASPHALTIC BASE TON	205.0100** COMMON EXCAVATION CY
0010	201+00	-	234+02	STH 144 LT & RT	499	245
	234+41	-	250+60	STH 144 LT & RT	245	120
	250+90	-	257+26	STH 144 LT & RT	96	47
	257+88	-	304+00	STH 144 LT & RT	696	341
	304+00	-	342+35	STH 144 LT & RT	580	284
	342+35	-	396+53	STH 144 LT & RT	774	401
	396+53	-	449+19	STH 144 LT & RT	796	390
	449+19	-	465+62	STH 144 LT & RT	248	122
				TOTAL 0010	3934	1950

**Additional quantity listed elsewhere in plan

3

CONCRETE DRIVEWAY SUMMARY

CATEGORY	STATION	LOCATION	416.0160 SY	416.0180 SY	REMARKS
0010	304+80	STH 144 LT	10		
	307+64	STH 144 LT	10		
	307+90	STH 144 RT	10		
	308+80	STH 144 LT	10		
	310+85	STH 144 LT	10		
	311+90	STH 144 RT	10		
	313+52	STH 144 LT	5		
	313+56	STH 144 RT	8		
	314+37	STH 144 RT	40		
	314+72	STH 144 LT	56		
	316+05	STH 144 RT	75		
	316+68	STH 144 RT	55		
	319+65	STH 144 RT	9		
	319+70	STH 144 LT	18		
	320+60	STH 144 LT	42		
	321+12	STH 144 LT	42		
	321+43	STH 144 RT	12		
	322+32	STH 144 LT	7		
	323+00	STH 144 RT	10		
	323+35	STH 144 LT	9		
	323+63	STH 144 LT	9		
	324+64	STH 144 RT	9		
	325+81	STH 144 LT	17		
	326+70	STH 144 LT	7		
	327+39	STH 144 RT	6		
	328+06	STH 144 RT	10		
	328+63	STH 144 LT	9		
	328+68	STH 144 RT	30		
	329+46	STH 144 RT	49		
	329+48	STH 144 LT	12		
	330+13	STH 144 RT	12		
	331+01	STH 144 RT	8		
	331+28	STH 144 LT	8		
	332+28	STH 144 RT	5		
	332+55	STH 144 LT	7		
	332+90	STH 144 RT	7		
	333+20	STH 144 LT	16		
	334+05	STH 144 LT		93	
	334+22	STH 144 RT	7		
	335+57	STH 144 RT	6		
	335+18	STH 144 LT	16		
	335+64	STH 144 LT	6		
	335+91	STH 144 LT	14		
	337+96	STH 144 RT	5		
	338+64	STH 144 RT	9		
	339+80	STH 144 LT	12		
	340+50	STH 144 RT	10		
	341+30	STH 144 RT	14		
	345+10	STH 144 LT	14		
	345+54	STH 144 RT	10		
		TOTAL 0010	792	93	

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

CATEGORY	STATION	LOCATION	465.0120 TON
0010	210+20	STH 144 RT	2
	212+11	STH 144 RT	2
	262+67	STH 144 RT	5
	292+58	STH 144 RT	1
	293+00	STH 144 RT	1
	293+85	STH 144 RT	2
	295+86	STH 144 LT	2
	298+13	STH 144 LT	2
	319+65	STH 144 RT	2
	323+63	STH 144 LT	2
	324+64	STH 144 RT	2
	326+70	STH 144 LT	2
	332+55	STH 144 LT	2
	333+20	STH 144 LT	4
	335+18	STH 144 LT	4
	338+64	STH 144 RT	2
	345+10	STH 144 LT	4
	423+03	STH 144 LT	2
	426+89	STH 144 LT	2
	435+00	STH 144 LT	2
	468+46	STH 144 RT	3
	511+55	STH 144 RT	2
	512+15	STH 144 LT	2
	513+50	STH 144 LT	2
	517+38	STH 144 RT	2
	517+89	STH 144 RT	2
	518+36	STH 144 LT	2
	518+57	STH 144 RT	2
	518+96	STH 144 RT	2
	519+72	STH 144 RT	2
	520+39	STH 144 RT	2
	520+39	STH 144 LT	2
	522+65	STH 144 LT	2
	524+77	STH 144 LT	2
	528+96	STH 144 LT	2
	29+45	RIVERVIEW LT	1
		TOTAL 0010	79

BASE PATCHING ASPHALTIC

CATEGORY	STATION	TO STATION	LOCATION	390.0201 TON
0010	200+44	560+23	UNDISTRIBUTED	2000
				2000

3

ASPHALTIC SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	455.0600 TACK COAT GAL	460.5223** HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF	INFORMATION ONLY Incentive Density PWL HMA Pavement TON
0010	201+00	-	234+02	STH 144 LT & RT	1552	2504	1147	6604	1636
	234+41	-	250+60	STH 144 LT & RT	751	1107	564	3238	774
	250+90	-	257+26	STH 144 LT & RT	317	452	231	1272	303
	257+88	-	304+00	STH 144 LT & RT	2130	3120	1594	9224	2216
	304+00	-	342+35	STH 144 LT & RT	1562	1984	1307	8810	1858
	342+35	-	396+53	STH 144 LT & RT	2435	3626	1822	9696	2534
	396+53	-	449+19	STH 144 LT & RT	2532	3705	1835	10532	2598
	449+19	-	465+62	STH 144 LT & RT	764	1192	567	3286	829
	465+62	-	500+49	STH 144 LT & RT	1771	2505	1278	6974	1772
	502+71	-	513+11	STH 144 LT & RT	613	766	391	2080	626
	513+11	-	561+23	STH 144 LT & RT	2178	3153	1642	9424	2294
				LONE PINE	67	97	49		
				RIVERVIEW	57	77	39		
				CAMP AWANA N	17	24	12		
				CAMP AWANA S	33	45	23		
				SCHROETER	69	103	53		
				SILVERCREEK	69	113	58		
				CTH DE	43	153	60		
				LYNN ROAD N	76	120	61		
				LYNN ROAD S	74	119	61		
				CTH I (N)	80	1214	65		
				CTH I (S)	67	1241	67		
				CTH K	122	1857	100		
				CARROLL	68	97	50		
				STARK	77	106	54		
				TOTAL 0010	17524	29480	13130	71140	

**Additional quantity listed elsewhere in plan

NOTE: Item 460.2000 includes upper and lower layer shoulders, upper and lower layer side roads and mainline upper layer.
Item 460.2005 includes mainline lower layer.

ASPHALTIC FLUMES

CATEGORY	STATION	LOCATION	465.0315 SY
0010	210+63	STH 144 LT	5
	211+74	STH 144 LT	5
	238+04	STH 144 RT	5
	304+00	STH 144 LT	11
	306+80	STH 144 RT	11
	345+43	STH 144 LT	11
	348+05	STH 144 RT	11
	395+64	STH 144 RT	5
	396+56	STH 144 RT	5
	396+73	STH 144 LT	5
	434+80	STH 144 LT	7
	439+65	STH 144 LT	11
	447+89	STH 144 RT	5
	448+12	STH 144 LT	7
	513+11	STH 144 LT	8
	70+54	SCHROETER LT	6
	50+74	SCHROETER RT	6
	88+80	CTH DE LT	6
	100+34	LYNN LT	6
	109+35	CTH I LT	6
	110+83	CTH I RT	6
		TOTAL 0010	148

HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP

CATEGORY	STATION	LOCATION	SPV.0060.05 EA	REMARKS
0010	201+00 - 561+23	STH 144	1	LOWER LAYER
		TOTAL 0010	1	

3

ASPHALT CENTER LINE RUMBLE STRIPS 2-LANE RURAL

CATEGORY	STATION	TO	STATION	LOCATION	465.0475 LF	REMARKS
0010	202+00	-	208+95	STH 144	695	
	212+95	-	233+77	STH 144	2082	
	234+69	-	235+50	STH 144	81	
	239+50	-	250+35	STH 144	1085	
	251+15	-	257+01	STH 144	586	
	257+67	-	288+55	STH 144	3088	
	292+55	-	296+64	STH 144	409	
	300+63	-	314+43	STH 144	1380	
	318+68	-	319+60	STH 144	92	
	322+40	-	340+86	STH 144	1846	
	336+20	-	393+98	STH 144	5778	
	397+98	-	448+64	STH 144	5066	
	450+64	-	476+67	STH 144	2603	
	480+67	-	500+24	STH 144	1957	
	502+97	-	504+90	STH 144	193	
	508+90	-	521+49	STH 144	1259	
	525+49	-	534+00	STH 144	851	
	538+00	-	559+97	STH 144	2197	
				TOTAL 0010	31248	

ASPHALTIC SURFACE

CATEGORY	STATION	LOCATION	465.0105 TON
0010	0+23 - 2+16	PE AT 464+52	75
		WAYSIDE	39
		TOTAL 0010	114

CONCRETE MASONRY ENDWALLS

CATEGORY	STATION	LOCATION	504.0900 CY
0010	382+87	STH 144 LT	2
	382+87	STH 144 RT	2
		TOTAL 0010	4

CONCRETE SURFACE REPAIR

CATEGORY	STATION	LOCATION	509.1500 SF
0010	513+11	STH 144 LT	30
		TOTAL 0010	30

CONCRETE COLLARS FOR PIPE

CATEGORY	STATION	LOCATION	520.8000 EACH	REMARKS
0010	321+84	STH 144 LT	1	STR 136 TO EXISTING PIPE
	332+74	STH 144 LT	1	STR 151 TO EXISTING PIPE
	513+11	STH 144 LT	1	
		TOTAL 0010	3	

CULVERT PIPE SUMMARY

CAT	STATION	LOCATION	520.1018 APRON ENDWALLS FOR CULVERT PIPE 18 INCH EACH	520.1030 APRON ENDWALLS FOR CULVERT PIPE 30 INCH EACH	521.0118 CULVERT PIPE CORRUGATED STEEL 18 INCH EACH	521.0130 CULVERT PIPE CORRUGATED STEEL 30 INCH EACH	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24 INCH LF	522.0130 CULVERT PIPE REINFORCED CONCRETE CLASS III 30 INCH LF	522.0148 CULVERT PIPE REINFORCED CONCRETE CLASS III 48 INCH LF	522.1024** APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24 INCH EACH	522.1030** APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30 INCH EACH	THICKNESS (INCHES) STEEL	INLET ELEV.	DISCH. ELEV.	JOINT TIES EACH	REMARKS
0010	248+30	STH 144 RT		2		36						0.079	804.99	804.74		
	281+50	STH 144					58			2			815.95	815.35	12	
	299+00	STH 144						56			2		814.60	813.65	12	
	382+87	STH 144							111				897.83	896.63	12	
	447+24	STH 144						56			2		871.44	870.05	12	
	465+34	STH 144 LT	2		57							0.064	864.00	863.43		
	511+55	STH 144 RT	2		32							0.064	871.44	870.92		
	535+64	STH 144						88			2		883.46	883.04	12	Skew 40° RHF
	20+48	LONE PINE	2		90							0.064	883.23	880.48		
		TOTAL 0010	6	2	179	36	58	200	111	2	6					

**QUANTITY ALSO LISTED ELSEWHERE

CONCRETE HORIZONTAL ELLIPTICAL PIPE SUMMARY

CATEGORY	STATION	LOCATION	523.0129 CULVERT PIPE REINFORCED CONCRETE HORZ ELIP CLASS HE-III 29X45 INCH LF	523.0143 CULVERT PIPE REINFORCED CONCRETE HORZ ELIP CLASS HE-III 43X68 INCH LF	523.0148 CULVERT PIPE REINFORCED CONCRETE HORZ ELIP CLASS HE-III 48X76 INCH LF	523.0419 CULVERT PIPE REINFORCED CONCRETE HORZ ELIP CLASS HE-IV 19X30 INCH LF	523.0424 CULVERT PIPE REINFORCED CONCRETE HORZ ELIP CLASS HE-IV 24X38 INCH EACH	INLET ELEV	DISCH ELEV	JOINT TIES EACH	REMARKS
0010	301+16	STH 144		76				814.06	813.6	12	Skew 37° LHF
	358+36	STH 144		54				874.62	874.02	12	
	403+27	STH 144					42	904.46	903.97	12	
	424+01	STH 144			55			876.47	874.94	12	depressed 8"
	449+42	STH 144	64					872.04	871.66	12	
	99+56	LYNN ROAD				80		923.01	922.15	12	
	100+30	LYNN ROAD				136		923.45	921.21	12	
		TOTAL 0010	64	130	55	216	42				

CONCRETE HORIZONTAL ELLIPTICAL ENDWALL SUMMARY

CATEGORY	STATION	LOCATION	523.0519 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORZ ELLIP 19X30 INCH EACH	523.0524 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORZ ELLIP 24X38 INCH EACH	523.0529 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORZ ELLIP 29X45 INCH EACH	523.0543 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORZ ELLIP 43X68 INCH EACH	523.0548 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORZ ELLIP 48X76 INCH EACH
0010	301+16	STH 144				2	
	358+36	STH 144				2	
	403+27	STH 144		2			
	424+01	STH 144					2
	449+42	STH 144			2		
	99+56	LYNN ROAD	2				
	100+30	LYNN ROAD	2				
		TOTAL 0010	4	2	2	4	2

CURB & GUTTER SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	601.0110 CURB TYPE D LF	601.0411 30-INCH TYPE D LF	601.0557 6-INCH SLOPED 36-INCH TYPE D LF	620.0200 CONCRETE MEDIAN BLUNT NOSE SF	620.0300 CONCRETE MEDIAN SLOPE NOSE SF	REMARKS
0010				LONE PINE NW			74			
				LONE PINE NE			113			
	234+37	-	29+42	STH 144 RT at Riverview			323			
				RIVERVIEW SE			63			
	304+48	-	316+52	STH 144 LT		1267				
	306+80	-	342+71	STH 144 RT		3614				
	316+83	-	342+68	STH 144 LT		2643				
	342+99	-	345+42	STH 144 LT		277		30		Type 2
	342+97	-	348+06	STH 144 RT		532				
	88+78	-	89+83	CTH DE LT		105				
				NE SILVER CREEK	84					
				LYNN NW			63			
				LYNN NE			95			
				LYNN SW			95			
				LYNN SE			63			
				CTH I NW			63			
				CTH I NE			95			
				CTH I SW			94			
				CTH I SE			63			
	119+45		119+75	CTH K RT (ISLAND)		47			85	Type 2
				TOTAL 0010	84	8485	1204	30	85	

CONCRETE SIDEWALK 4-INCH

CATEGORY	STATION	LOCATION	602.0405 SF
0010	311+57	STH 144 LT	18
	326+72	STH 144 RT	60
	326+80	STH 144 LT	72
	331+98	STH 144 LT	15
		TOTAL 0010	165

CONCRETE STEPS AND HANDRAIL SUMMARY

CATEGORY	STATION	LOCATION	602.1500 CONCRETE STEPS SF	SPV.0090 01. HANDRAIL SPECIAL LF
0010	311+58	STH 144 LT	54	12
		TOTAL 0010	54	12

RIPRAP AND GEOTEXTILE FABRIC SUMMARY

CATEGORY	STATION	LOCATION	606.0200 MEDIUM RANDOM RIPRAP CY	645.0120 GEOTEXTILE FABRIC SY
0010	281+48	STH 144 RT	4	15
	299+00	STH 144 RT	4	14
	301+16	STH 144 RT	8	25
	306+10	STH 144 RT	4	15
	316+15	STH 144 LT	4	14
	358+30	STH 144 RT	8	25
	382+87	STH 144 RT	24	63
	424+01	STH 144 RT	8	26
	449+42	STH 144 RT	4	14
	513+11	STH 144 LT	5	19
		TOTAL 0010	73	230

STORM SEWER SUMMARY

CATEGORY	STR	TO	STR	INVERT ELEVATION INLET	INVERT ELEVATION DISCHARGE	SLOPE %	608.0312 REINFORCED CONCRETE CLASS III 12 -INCH LF	608.0324 REINFORCED CONCRETE Class III 24 - INCH LF	608.0330 REINFORCED CONCRETE Class III 30 - INCH LF	608.0412 REINFORCED CONCRETE Class IV 12 -INCH LF	608.0424 REINFORCED CONCRETE Class IV 24 - INCH LF	608.0430 REINFORCED CONCRETE Class IV 30 - INCH LF	REMARKS
0010	102	-	101	821.12	820.24	1.22					72		
	103	-	102	822.42	821.12	2.95					44		
	105	-	106	833.51	833.35	0.45	35						
	106	-	103	832.35	822.42	3.65		272					
	108	-	109	844.56	844.40	0.45	35						
	109	-	106	843.40	832.35	5.09		217					
	111	-	109	846.75	843.40	3.10		108					
	113	-	114	849.81	849.65	0.44	35						
	114	-	111	847.76	845.75	0.92		110					
	114.1	-	114	851.76	851.46	1.00	30						
	116	-	114	848.37	847.76	0.53		116					
	118	-	119	852.02	851.86	0.45				35			
	118.1	-	118	852.09	852.02	0.50	14						
	119	-	119.1	580.36	849.11	3.13			40				
	119.1												
	121	-	122	851.85	851.69	0.45				35			
	122	-	119	850.69	850.36	0.29						114	
	124	-	122	850.93	850.69	0.34						70	
	126	-	127	853.41	853.25	0.45				35			
	127	-	124	851.75	850.93	1.19						69	
	129	-	127	853.10	852.25	1.16		73					
	131	-	129	854.95	853.10	2.53		73					
	133	-	131	857.55	854.95	3.42		76					
	135	-	136	861.61	861.45	0.45	35						
	136	-	133	860.45	857.55	3.77		77					
	136.1	-	136		862.31			8					CONNECT TO EXISTING
	138	-	136	867.30	860.45	4.28		160					
	140	-	141	875.21	875.05	0.45	35						
	141	-	138	874.05	867.30	4.22		160					
	143	-	141	881..85	874.05	4.26		182					
	145	-	146	890.99	890.83	0.45	35						
	145.1	-	145	890.21	890.99	0.44	50						
	146	-	143	889.83	881.85	4.03		198					
	148	-	146	898.60	889.83	4.43		198					
	150	-	151	907.81	907.65	0.45	35						
	151	-	148	906.65	898.60	4.19		192					
	151.1	-	151		907.65		2						CONNECT TO EXISTING
	201												
	202	-	201	908.63	898.71	3.53		281					
	202.1	-	202	909.86	909.63	1.00				23			
	203	-	202	910.05	909.63	1.00				42			
	204	-	202	909.12	908.63	1.00					49		
	205	-	204	910.53	910.12	1.02				41			
	206	-	204	910.55	910.12	1.00				43			
					TOTAL 0010		341	2501	40	254	165	253	

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STORM SEWER STRUCTURES

CATEGORY	STR NO.	STATION	LOCATION	522.1024** APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24 INCH EACH	522.1030** APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30 INCH EACH	611.0530 MH COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS MS EACH	611.0654 INLET COVERS V EACH	611.2004 MANHOLES 4-FOOT DIA EACH	611.2005 MANHOLES 5-FOOT DIA EACH	611.3230 INLETS 2 x3-FT EACH	611.3901 INLETS MED 1 GRATE EACH	RIM/ GRATE ELEV.	DISCH. ELEV.	DEPTH FEET	REMARKS
0010		234+45	16.0 RT						1					817.37			
	101	306+10	30.5' RT	1											820.24		
	102	306+81	26.7' RT				1				1			826.10	822.12	2.98	
	103	306+81	17.5' LT				1				1			826.81	822.42	3.39	
	105	309+53	17.5 RT				1					1		838.03	833.51	3.52	
	106	309+53	17.5' LT				1			1				838.03	832.35	4.68	
	108	311+70	17.5 RT				1					1		849.10	844.56	3.54	
	109	311+70	17.5' LT				1			1				849.10	843.40	4.70	
	111	312+78	17.5' LT				1			1				852.47	846.75	4.72	
	113	313+88	17.5 RT				1					1		854.31	849.81	3.50	
	114	313+88	17.5' LT				1			1				854.31	847.75	5.56	
	114.1	313+60	22.5 LT					1					1	853.96	851.76	2.20	SINGE SLOPE
	116	315+04	17.5' LT				1			1				854.74	848.37	5.37	
	118	316+32	17.5 RT				1					1		854.98	852.02	2.76	
	118.1	316+19	24' RT					1					1	854.82	852.09	2.73	SINGLE SLOPE
	119	316+32	17.5' LT			1					1			854.85	850.26	3.34	
	119.1	315+93	51.' LT		1										849.11		
	121	317+46	17.5 RT				1					1		855.40	851.85	2.55	
	122	317+46	17.5' LT				1				1			855.40	850.69	3.71	
	124	318+16	17.5' LT				1				1			856.13	850.93	4.20	
	126	318+85	17.5 RT				1					1		857.25	853.41	2.84	
	127	318+85	17.5' LT				1				1			857.25	851.75	4.50	
	129	319+58	17.5' LT				1			1				858.85	853.10	4.75	
	131	320+32	17.5' LT				1			1				860.88	854.95	4.93	
	133	321+07	17.5' LT				1			1				863.46	857.55	4.91	
	135	321+84	17.5 RT				1					1		866.54	861.61	3.93	
		SUBTOTAL 0010		1	1	1	20	2	1	8	6	7	2				

**QUANTITY ALSO LISTED ELSEWHERE

STORM SEWER STRUCTURES (CONTINUED)

CATEGORY	STR NO.	STATION	LOCATION	522.1024** APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24 INCH EACH	522.1030** APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30 INCH EACH	611.0530 MH COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS MS EACH	611.0654 INLET COVERS V EACH	611.2004 MANHOLES 4-FOOT DIA EACH	611.2005 MANHOLES 5-FOOT DIA EACH	611.3230 INLETS 2 x3-FT EACH	611.3901 INLETS MED 1 GRATE EACH	RIM/ GRATE ELEV.	DISCH. ELEV.	DEPTH FEET	REMARKS
0010	136	321+84	17.5' LT				1			1				866.54	860.45	5.09	
	136	321+84	LT											--			CONNECT TO EXIST
	138	323+44	17.5' LT				1			1				873.30	867.30	5.00	
	140	325+04	17.5 RT				1					1		880.07	875.21	3.86	
	141	325+04	17.5' LT				1			1				880.07	874.05	5.02	
	143	326+86	17.5' LT				1			1				887.77	881.85	4.92	
	145	328+84	17.5 RT				1					1		896.14	890.99	4.15	
	145	328+30	25' RT					1					1	893.70	891.21	2.49	SINGLE SLOPE
	146	328+84	17.5' LT				1			1				896.14	889.83	5.31	
	148	330+82	17.5' LT				1			1				904.52	898.60	4.92	
	150	332+74	17.5 RT				1					1		912.64	907.81	3.83	
	151	332+74	17.5' LT				1			1				912.64	906.65	4.99	
	151	332+74	LT														CONNECT TO EXIST
	201	345+50	25.6' LT	1											898.71		
	202	342+69	25.6' LT			1					1			913.10	908.63	3.22	
	202	342+55	44' LT					1					1	912.36	909.86	2.50	SINGLE SLOPE
	203	342+28	19.5 LT				1					1		913.32	910.05	2.27	
	204	342+69	23.5 RT			1					1			912.90	909.12	2.53	
	205	342+28	23.5' RT				1					1		914.35	910.53	2.82	
	206	342+71	66' RT				1					1		912.80	910.55	1.25	
			SUBTOTAL 0010	1	0	2	13	2	0	7	2	6	2				
			TOTAL	2	1	3	33	4	1	15	8	13	4				

**QUANTITY ALSO LISTED ELSEWHERE

3

PIPE GRATES

CATEGORY	STATION	LOCATION	611.9800.S PIPE GRATES EACH
0010	306+10.0	30.5' RT	1
	315+92.8	51.' LT	1
	345+50.0	25.6' LT	1
		TOTAL 0010	3

PIPE UNDERDRAIN AND DRAINTILE EXPLORATION

CATEGORY	STATION	STATION	LOCATION	612.0106 6-INCH LF	612.0406 6-INCH LF	612.0700 LF	612.0806 AEW FOR UNDERDRAIN REIN CONC 6-INCH EA
0010		282+50	STH 144 RT	15		35	
		316+04	STH 144 RT	20		20	
		403+27	STH 144 RT	10		15	
	436+30	439+32	STH 144 LT		310		1
			UNDISTRIBUTED	90		140	
			TOTAL 0010	135	310	210	1

BEAM GUARD SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	614.0200 STEEL THRIE BEAM STRUCTURE APPROACH LF	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0345 STEEL PLATE BEAM GUARD SHORT RADIUS LF	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EACH	614.0390 STEEL PLATE BEAM GUARD SHORT RADIUS TREMINAL EACH	614.2300 MGS GUARDRAIL 3 LF	614.2310 MGS GUARDRAIL 3 HS LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.8010 ANCHOR POST ASSEMBLIES TOP MOUNTED EACH	REMARKS
0010	232+55	-	233+95	STH 144 RT						50		39	1		
	233+25	-	234+14	STH 144 LT						--		39	1		
	234+37	-	235+26	STH 144 RT						13		39	1		
	234+51	-	235+90	STH 144 LT						50		39	1		
	249+36	-	250+67	STH 144 RT	21	88	38		1						8 FOOT RAD.
	249+51	-	250+53	STH 144 LT						13		39	1		
	252+83	-	252+35	STH 144 LT						63		39	1		
	250+97	-	251+79	STH 144 RT	21	13		1							
	255+99	-	257+26	STH 144 RT						38		39	1		
	256+36	-	257+26	STH 144 LT						--		39	1		
	257+89	-	258+79	STH 144 RT						--		39	1		
	257+89	-	259+16	STH 144 LT						--		39	1		
	463+95	-	466+61	STH 144 RT						88	75		2	8	
	464+96	-	467+49	STH 144 LT						75	75		2	8	
	490+25	-	500+33	STH 144 RT	21	938		1							
	489+40	-	500+48	STH 144 LT	21	1038		1							
	501+00	-	506+59	STH 144 RT	21	338	36		1						24 FOOT RAD.
	502+91	-	508+24	STH 144 LT	21	463		1							
	511+99	-	513+68	STH 144 RT						63			2		
				TOTAL 0010	126	2878	74	4	2	453	150	390	16	16	

EROSION CONTROL SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2008 URBAN EROSION MAT CLASS I TYPE B SY	628.2023 EROSION MAT CLASS II TYPE B SY	628.7504 TEMPORARY DITCH CHECKS LF	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIX. NO. 30 LB	630.0140 SEEDING MIX. NO. 40 LB	SPV.0120.01 WATER FOR SEEDED AREAS MGAL
0010	209+80	-	212+42	STH 144 LT		451	451	50	50		142	10	0.3	6		
	230+50	-	239+10	STH 144 RT		1680	1407	915	915	273	89		1.1	19	5	38
	248+00	-	254+00	STH 144		958	958	685	685		66		0.6	13		
	254+30	-	260+75	STH 144		2019	2019	900	900		66		1.3	27		
	280+00	-	282+25	STH 144		854	854	60	600		444		0.5	12		
	298+80	-	301+75	STH 144		488	488	285	285		107		0.3	7		10
	304+60	-	316+68	STH 144	756	1899		1235	1235	2655	44		1.7		48	60
	316+68	-	342+85	STH 144		4371		1945	1945	4371			2.8		79	98
	342+85	-	348+25	STH 144	100	698		690	690	698	18		0.4		13	16
	357+00	-	359+80	STH 144		1223	1223	505	505		89		0.8	17		
	381+50	-	383+50	STH 144		634	634	100	100		66		0.4	9		
	394+30	-	397+30	STH 144		999	999	135	135		179	10	0.6	13		
	403+25	-	403+75	STH 144		119	119	200	200		44		0.1	2		2
	423+25	-	434+75	STH 144		700	700	0	0		156		0.4	9		
	434+40	-	439+80	STH 144		624	624	60	60		18		0.4	8		
	444+00	-	455+00	STH 144		1680	1680	845	845		222		1.1	23		
	462+50	-	469+00	STH 144		1273	1273	425	425		226		0.8	17		
	477+50	-	480+00	STH 144 RT		333	333	25	250		0		0.2	4		
	488+70	-	491+00	STH 144		924	924	60	60		0		0.6	12		
	507+00	-	510+50	STH 144		719	719	485	485		160		0.5	10		16
	510+50	-	517+30	STH 144		881		510	510	881			0.6		16	20
	531+00	-	536+20	STH 144		1132	1132	400	400		36		0.7	15		26
	20+66	-	21+10	LONE PINE ROAD		129	129	50	50		120		0.1	2		
	28+84	-	29+50	RIVERVIEW ROAD		565	503	50	50	61			0.4	7	1	12
	70+00	-	71+36	SCHROETER ROAD		300		100	100	300			0.2		5	6
	80+20	-	81+25	SILVER CREEK ROAD		231		50	50	231			0.1		4	6
	88+28	-	89+60	CTH DE		224				224			0.1		4	6
	98+45	-	101+50	LYNN ROAD		328	328	30	30		89		0.2	4		
	108+50	-	111+40	CTH I		337	337	350	350				0.2	5		
	0+60	-	2+16	PE		1039	1039				107		0.7	14		24
				WAYSIDE	20		20						0.1	0.3		
				UNDISTRIBUTED	214		4718	27865	2910	2424	622	5	4.7	63.7	44	
				TOTAL 0010	1090	27812	23611	39010	14820	12118	3110	25	23	319	219	340

INLET PROTECTION

CATEGORY	STATION	LOCATION	628.7005 EACH	628.7015 EACH	REMARKS
0010	306+81	STH 144 26.7' RT		1	
	306+81	STH 144 17.5' LT		1	
	309+53	STH 144 17.5 RT		1	
	309+53	STH 144 17.5' LT		1	
	311+70	STH 144 17.5 RT		1	
	311+70	STH 144 17.5' LT		1	
	312+78	STH 144 17.5' LT		1	
	313+88	STH 144 17.5 RT		1	
	313+88	STH 144 17.5' LT		1	
	313+60	STH 144 22.5 LT	1		
	315+04	STH 144 17.5' LT		1	
	316+32	STH 144 17.5 RT		1	
	316+19	STH 144 24' RT	1		
	316+11	STH 144 17.5 LT		1	
	317+46	STH 144 17.5 RT		1	
	317+46	STH 144 17.5' LT		1	
	318+16	STH 144 17.5' LT		1	
	318+85	STH 144 17.5 RT		1	
	318+85	STH 144 17.5' LT		1	
	319+58	STH 144 17.5' LT		1	
	320+32	STH 144 17.5' LT		1	
	321+07	STH 144 17.5' LT		1	
	321+84	STH 144 17.5 RT		1	
	321+84	STH 144 17.5' LT		1	
	323+44	STH 144 17.5' LT		1	
	325+04	STH 144 17.5 RT		1	
	325+04	STH 144 17.5' LT		1	
	326+86	STH 144 17.5' LT		1	
	328+84	STH 144 17.5 RT		1	
	328+30	STH 144 25' RT	1		
	328+84	STH 144 17.5' LT		1	
	330+82	STH 144 17.5' LT		1	
	332+74	STH 144 17.5 RT		1	
	332+74	STH 144 17.5' LT		1	
	342+69	STH 144 25.6' LT			
	342+55	STH 144 44' LT	1		
	342+28	STH 144 19.5 LT		1	
	342+28	STH 144 23.5' RT		1	
	342+71	STH 144 66' RT		1	
		TOTAL 0010	4	34	

ROCK BAGS

CATEGORY	STATION	LOCATION	628.7570 EACH	REMARKS
0010	300+80	STH 144 RT	100	
		UNDISTRIBUTED	100	
		TOTAL 0010	200	

CULVERT PIPE CHECKS

CATEGORY	STATION	LOCATION	628.7555 EACH	REMARKS
0010	249+30	STH 144 RT	5	
	281+50	STH 144	5	
	299+00	STH 144	5	
	300+20	STH 144 RT	3	PE PIPE
	301+16	STH 144	6	
	358+36	STH 144	9	
	382+87	STH 144	9	
	403+27	STH 144	7	
	424+01	STH 144	11	
	447+24	STH 144	5	
	449+42	STH 144	9	
	511+55	STH 144 RT	3	PE PIPE
	535+64	STH 144	5	
	20+48	LONE PINE	3	
	29+20	RIVERVIEW RT	3	
	59+50	CAMP ANAWA RT	3	
	99+56	LYNN ROAD	3	
	00+36	PE	5	
		UNDISTRIBUTED	25	
		TOTAL 0010	124	

MOBILIZATIONS EROSION CONTROL

CATEGORY	STATION TO STATION	LOCATION	628.1905 EACH	628.1910 EACH
0010	200+50 - 560+23	PROJECT LIMITS	8	5
		TOTAL 0010	8	5

MARKERS CULVERT END

CATEGORY	STATION	LOCATION	633.5200 EACH
0010	281+50	STH 144	2
	299+00	STH 144	2
	301+16	STH 144	2
	358+36	STH 144	2
	382+87	STH 144	2
	403+27	STH 144	2
	424+01	STH 144	2
	447+24	STH 144	2
	449+42	STH 144	2
	535+64	STH 144	2
			20

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	APPROXIMATE SERVICE DAYS	643.0300 DRUMS NO. IN SERVICE	643.0300 DRUMS DAY	643.0420** BARRICADES TYPE III NO. IN SERVICE	643.0420** BARRICADES TYPE III DAY	643.0705** WARNING LIGHTS TYPE A NO. IN SERVICE	643.0705** WARNING LIGHTS TYPE A DAY	643.0900 SIGNS NO. IN SERVICE	643.0900 SIGNS DAY	643.1050** SIGNS PORTABLE CHANGEABLE MESSAGE NO. IN SERVICE	643.1050** SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	REMARKS
0010	ADVANCE WARNING STH 144	136											
	200+50	136	21		2	264	4	528	2	264			
	LONE PINE	136	10	100	2	264	4	528	3	408			
	B-59-137	136			2	264	4	528	2	264			
	RIVERVIEW	136	15	100	2	264	4	528	3	396			
	B-59-144	136			2	264	4	528	2	264			
	B-59-143	136			2	264	4	528	2	234			
	CAMP ANAWA (NORTH)	136			2	264	4	528	3	396			
	CAMP ANAWA (SOUTH)	136			2	264	4	528	3	396			
	SCHROETER	136	20	100	2	264	4	528	3	396			
	CTH DE	136	10	100	2	264	4	528	3	396			
	SILVER CREEK ROAD	136	10	100	2	264	4	528	3	396			
	LYNN ROAD (SOUTH)	136	10	100	2	264	4	528	3	396			
	LYNN ROAD (NORTH)	136	10	100	2	264	4	528	3	396			
	CTH I (SOUTH)	136	10	100	2	264	4	528	3	396			
	CTH I (NORTH)	136	10	100	2	264	4	528	3	396			
	CTH K	136	10	100	2	264	4	528	3	396			
	B-59-104	136			10	1360	10	1320	2	264			
	CARROLL	136	10	100	2	264	4	528	3	396			
	STA 513+11	3			10	30	12	36	8	24	2	14	PRECAST BOX CULVERT EXTENSION AND END SECTION INSTALLATION
	STARK	136			2	264	4	528	3	396			
	560+23	136			2	264	4	528	2	396			
	UNDISTRIBUTED			200									
	TOTAL 0010			1300		6406		11388		7266		14	

** ADDITIONAL QUANTITY LISTED ELSEWHERE

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ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	637.2235 FOLDING SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1	STH 144, AT INTERSECTION OF STH 28	R7-51R	24" X 30"	5.00	---	---	1	---	---	1	1	
2	"	J3-4	96" X 57"	38.00	---	---	---	2	---	1	2	WEST STH 28, SOUTH STH 144, WEST CTH D, EAST STH 28, SEE PLAN SHEET
3	"	R1-1	36" X 36"	7.46	---	---	---	1	---	1	1	
4	"	R1-1	36" X 36"	7.46	---	---	1	---	---	1	1	
5	STH 144, E. OF STH 28	J4-1	---		---	---	---	---	---	---	---	PART OF REMOVAL FOR SIGN #6
6	"	D2-2	90" X 24"	15.00	---	---	2	---	---	1	2	SILVER CREEK 2, RANDOM LAKE 5, SEE SIGN DETAIL SHEET
7	"	R7-51L	18" X 24"	3.00	---	---	1	---	---	1	1	
8	"	R7-51R	18" X 24"	3.00	---	---	1	---	---	1	1	
9	"	J4-1	24" X 36"	6.00	---	---	---	1	---	---	---	NORTH STH 144
10	"	D1-4	72" X 54"	27.00	---	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
11	"	I55-56	30" X 36"	7.50	---	---	---	1	---	1	1	RANDOM LAKE MIDDLE SCHOOL GRADE 7
12	"	J2-3	72" X 57"	28.50	---	---	---	2	---	1	2	WEST STH 28, SOUTH STH 144, EAST STH 28, SEE PLAN SHEET
13	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	55 MPH
14	"	W3-1	36" X 36"	---	9.00	---	---	1	---	---	---	
15	"	W3-1	---	---	---	---	---	---	---	---	---	PART OF REMOVAL FOR SIGN #16
16	"	W1-7	48" X 24"	---	8.00	---	1	---	---	1	1	
17	LONE PINE RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
18	STH 144, E. OF LONE PINE RD	W3-1	---	---	---	---	---	---	---	1	1	
19	"	J1-2	48" X 39"	13.00	---	---	---	1	---	---	---	JCT STH 28, JCT CTH D
20	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
21	"	J1-2	---	---	---	---	---	---	---	1	1	
22	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
22A	"	W8-65	36" X 36"	---	---	9.00	1	---	---	---	---	SEE PLAN SHEET FOR ASSOCIATED NOTE PRIOR TO MANUFACTURING
23	"	W2-2	30" X 30"	---	6.25	---	1	---	---	1	1	
24	STH 144, W. OF RIVERVIEW RD	I3-1	36" X 24"	6.00	---	---	1	---	---	---	---	MINK CREEK, SEE SIGN DETAIL SHEET
25	"	I3-1	36" X 24"	6.00	---	---	1	---	---	---	---	MINK CREEK, SEE SIGN DETAIL SHEET
25A	"	I3-1	---	---	---	---	---	---	---	1	1	
25B	"	I3-1	---	---	---	---	---	---	---	---	---	PART OF SIGN 25A REMOVAL
26	"	W1-7	---	---	---	---	---	---	---	1	1	
27	RIVERVIEW RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
27A	STH 144, E. OF RIVERVIEW RD	W8-65	36" X 36"	---	---	9.00	1	---	---	---	---	SEE PLAN SHEET FOR ASSOCIATED NOTE PRIOR TO MANUFACTURING
28	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
28A	"	W8-65	36" X 36"	---	---	9.00	1	---	---	---	---	SEE PLAN SHEET FOR ASSOCIATED NOTE PRIOR TO MANUFACTURING
29	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
29A	"	W8-65	36" X 36"	---	---	9.00	---	---	---	---	---	MOUNT ON BACK OF SIGN #29
30	"	D5-61	48" X 24"	8.00	---	---	1	---	---	1	1	
31	"	W3-5	36" X 36"	---	9.00	---	---	1	---	1	1	35 MPH
32	"	I2-3	78" X 24"	13.00	---	---	1	---	---	1	1	SILVER CREEK, SEE SIGN DETAIL SHEET
33	"	W14-3	48" X 36"	---	6.00	---	---	1	---	---	---	MOUNT ON BACK OF SIGN #32
34	"	I55-56	30" X 36"	7.50	---	---	---	1	---	1	1	RANDOM LAKE MIDDLE SCHOOL GRADE 7
35	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
36	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	55 MPH
37	CAMP ANAWA NORTH	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
38	CAMP ANAWA SOUTH	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
39	"	W1-7	48" X 24"	---	8.00	---	1	---	---	1	1	
40	STH 144, E. OF CAMP ANAWA SOUTH	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
	PAGE SUBTOTALS			242.14	70.25	36.00	24	18	0	32	36	

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ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	637.2235 FOLDING SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
41	STH 144, E. OF CAMP ANAWA SOUTH	D5-62R	48" X 24"	8.00	---	---	1	---	---	---	---	
42	"	D5-62L	48" X 24"	8.00	---	---	1	---	---	1	1	
42A	"	D5-62R	---	---	---	---	---	---	---	---	---	
43	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
44	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
45	"	J4-1	24" X 36"	6.00	---	---	---	---	---	---	---	SOUTH STH 144, MOUNT ON BACK OF SIGN #44
46	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
47	"	M1-6	---	---	---	---	---	---	---	1	1	
48	SCHROETER RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
49	STH 144, E. OF SCHROETER RD	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
50	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
51	"	W14-3	48" X 36"	---	6.00	---		---	---	---	---	MOUNT ON BACK OF SIGN #51
52	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
53	"	W11-8	30" X 30"	---	6.25	---	1	---	---	1	1	
54	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
55	"	J1-1	24" X 39"	6.50	---	---	---	1	---	1	1	JCT CTH DE
56	"	W2-1	30" X 30"	---	6.25	---	1	---	---	1	1	
57	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
58	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
59	"	W11-8	30" X 30"	---	6.25	---	1	---	---	1	1	
59A	"	J4-1	24" X 36"	6.00	---	---	1	---	---	---	---	NORTH STH 144
60	"	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	CTH DE, SEE PLAN SHEET
61	SILVER CREEK RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
62	CTH DE	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
63	"	J13-1	24" X 45"	7.50	---	---	---	1	---	---	---	CTH DE, SEE PLAN SHEET
64	"	J13-1	24" X 45"	7.50	---	---	---	---	---	1	1	MOUNT ON BACK OF SIGN #63
65	STH 144, E. OF CTH DE/SILVER CREEK RD	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	CTH DE, SEE PLAN SHEET
66	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	35 MPH
67	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	55 MPH
68	"	I55-56	30" X 36"	7.50	---	---	---	1	---	1	1	BOY SCOUT TROOP #863 RANDOM LAKE
69	"	J4-1	24" X 36"	6.00	---	---	---	1	---	---	---	NORTH STH 144
70	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	REMOVE J4-1 AS PART OF REMOVAL OF SIGN 70
71	"	I2-3	78" X 24"	13.00	---	---	2	---	---	1	2	SILVER CREEK, SEE SIGN DETAIL SHEET
72	"	J1-1	24" X 39"	6.50	---	---	---	1	---	1	1	JCT CTH DE
73	"	W3-5	36" X 36"	---	9.00	---	---	1	---	1	1	35 MPH
74	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
75	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
76	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
77	"	W2-1	30" X 30"	---	6.25	---	---	---	1	1	1	
78	"	W13-1	18" X 18"	---	2.25	---	---	---	---	---	---	45 MPH, MOUNT BELOW SIGN #77, PART OF REMOVAL FOR SIGN #77
79	LYNN RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
80	"	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
	PAGE SUBTOTALS			168.40	78.25	0.00	22	14	1	34	35	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	637.2235 FOLDING SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
81	LYNN RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
82	"	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
83	STH 144, E. OF LYNN RD	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
84	"	W14-3	48" X 36"	---	6.00	---	1	---	---	1	1	
85	"	W54-53	30" X 30"	---	6.25	---	1	---	---	1	1	
86	"	J1-1	24" X 39"	6.50	---	---	---	1	---	1	1	JCT CTH I
87	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	55 MPH
88	"	D1-2	66" X 30"	13.75	---	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
89	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
90	"	W54-53	30" X 30"	---	6.25	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #89
91	"	I55-56	30" X 36"	7.50	---	---	---	1	---	1	1	BOY SCOUT TROOP #863 RANDOM LAKE
92	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
93	"	J4-1	24" X 36"	6.00	---	---	---	1	---	---	---	SOUTH STH 144
94	"	M1-6	---	---	---	---	---	---	---	1	1	
95	"	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	CTH I, SEE PLAN SHEET
96	CTH I	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
97	"	R1-1	36" X 36"	7.46	---	---	---	1	---	1	1	
98	"	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	STH 144
99	"	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	STH 144
100	"	R1-1	36" X 36"	7.46	---	---	---	1	---	1	1	
101	"	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
102	STH 144, E. OF CTH I	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	CTH I, SEE PLAN SHEET
103	"	I55-56	---	---	---	---	---	---	---	1	1	
104	"	J4-1	24" X 36"	6.00	---	---	---	1	---	---	---	NORTH STH 144
105	"	D1-2	66" X 30"	13.75	---	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
106	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	55 MPH
107	"	S1-1	36" X 36"	---	6.75	---	---	---	1	1	1	
108	"	S16-9P	30" X 18"	---	3.75	---	---	---	---	---	---	MOUNT BELOW SIGN #107, PART OF REMOVAL FOR SIGN #107
109	"	J1-1	24" X 39"	6.50	---	---	---	1	---	1	1	JCT CTH I
110	STH 144, W. OF CTH K	W1-2L	30" X 30"	---	6.25	---	1	---	---	1	1	
111	"	I2-3	78" X 24"	13.00	---	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
112	"	I3-1	36" X 24"	6.00	---	---	1	---	---	1	1	SILVER CREEK, SEE SIGN DETAIL SHEET
113	"	I3-1	---	---	---	---	---	---	---	1	---	
114	"	I3-1	36" X 24"	6.00	---	---	1	---	---	---	---	SILVER CREEK, SEE SIGN DETAIL SHEET
115	"	J1-1	24" X 39"	6.50	---	---	---	1	---	1	1	JCT CTH K
116	"	W1-7	48" X 24"	---	8.00	---	1	---	---	1	1	
117	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
118	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	55 MPH
119	"	J4-1	24" X 36"	6.00	---	---	---	1	---	---	---	SOUTH STH 144
119A	"	J4-1	---	---	---	---	---	---	---	1	1	
120	"	D1-1	---	---	---	---	---	---	---	1	2	RANDOM LAKE, SEE SIGN DETAIL SHEET
	PAGE SUBTOTALS			178.14	69.25	0.00	15	21	1	32	35	

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ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	637.2235 FOLDING SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
121	STH 144, W. OF CTH K	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	CTH K, SEE PLAN SHEET
122	CTH K	M1-6	---	---	---	---	---	---	---	---	---	PART OF REMOVAL FOR SIGN #123
123	"	W1-7	48" X 24"	8.00	---	---	1	---	---	1	1	
124	"	R1-1	---	---	---	---	---	---	---	1	1	
125	"	R4-7	---	---	---	---	---	---	---	1	1	
126	"	R1-1	36" X 36"	7.46	---	---	---	1	---	1	1	
127	"	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	STH 144, SEE PLAN SHEET
128	STH 144, E. OF CTH K	J13-1	24" X 45"	7.50	---	---	---	1	---	1	1	CTH K, SEE PLAN SHEET
129	"	J4-1	24" X 36"	6.00	---	---	---	1	---	1	1	NORTH STH 144
130	"	D5-63	60" X 36"	15.00	---	---	---	1	---	1	2	
131	"	S1-1	36" X 36"	---	6.75	---	---	---	1	1	1	
132	"	S16-9P	30" X 18"	---	3.75	---	---	---	---	---	---	MOUNT BELOW SIGN #131, PART OF REMOVAL FOR SIGN #131
133	"	R2-1	24" X 30"	5.00	---	---	1	---	---	---	---	55 MPH
134	"	J1-1	24" X 39"	6.50	---	---	---	1	---	1	1	JCT CTH K
135	STH 144, W. OF CARROLL ST	W3-5	36" X 36"	---	9.00	---	---	1	---	1	1	45 MPH
136	"	W2-2	30" X 30"	---	6.25	---	1	---	---	1	1	
137	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	45 MPH
138	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	55 MPH
139	"	D5-64R	60" X 36"	15.00	---	---	---	2	---	1	2	
140	"	M1-6	---	---	---	---	---	---	---	---	---	PART OF REMOVAL FOR SIGN #141
141	CARROLL ST	W1-7	48" X 24"		8.00	---	1	---	---	1	1	
142	"	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
143	STH 144, E. OF CARROLL ST	D5-64R	60" X 36"	15.00	---	---	---	2	---	1	2	
144	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	45 MPH
145	"	D1-1	---	---	---	---	---	---	---	1	2	RANDOM LAKE, SEE SIGN DETAIL SHEET
146	"	J4-1	24" X 36"	6.00	---	---	1	---	---	1	1	NORTH STH 144
147	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	45 MPH
148	"	I2-3	78" X 24"	13.00	---	---	2	---	---	1	2	RANDOM LAKE, SEE SIGN DETAIL SHEET
149	STARK RD	R1-1	30" X 30"	5.18	---	---	1	---	---	1	1	
150	STH 144, E. OF STARK RD	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	55 MPH
151	"	R2-1	24" X 30"	5.00	---	---	1	---	---	1	1	45 MPH
152	"	W1-2R	30" X 30"	---	6.25	---	1	---	---	1	1	
153	"	W13-1	---	---	---	---	---	---	---	---	---	PART OF REMOVAL FOR SIGN #152
154	"	W2-2	30" X 30"	---	6.25	---	1	---	---	1	1	
155	"	W3-5	36" X 36"	---	9.00	---	---	1	---	1	1	45 MPH
156	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
157	"	W1-6	48" X 24"	---	8.00	---	1	---	---	1	1	
158	"	D5-63	60" X 36"	15.00	---	---	---	1	---	1	2	
159	"	J1-2	48" X 36"	12.00	---	---	---	1	---	1	1	JCT STH 57, END STH 57
160	STH 144, W. OF STH 57	W3-1	---	---	---	---	---	---	---	1	1	
	PAGE SUBTOTALS			186.82	71.25	0.00	19	15	1	35	41	

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ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE TYPE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE TYPE F S.F.	637.2235 FOLDING SIGNS TYPE II REFLECTIVE TYPE F S.F.	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
161	STH 144, W. OF STH 57	W1-2L	30" X 30"	---	6.25	---	1	---	---	---	---	PART OF REMOVAL FOR SIGN #160
162	"	W13-1	---	---	---	---	---	---	---	---	---	PART OF REMOVAL FOR SIGN #160
163	"	W3-1	36" X 36"	---	9.00	---	---	1	---	1	1	
164	"	W14-3	48" X 36"	---	6.00	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #163, PART OF REMOVAL FOR SIGN #163
165	"	J2-2	48" X 57"	19.00	---	---	---	1	---	1	1	NORTH STH 57, SOUTH STH 57, SEE PLAN SHEET
166	"	W14-3	48" X 36"	---	6.00	---	---	1	---	1	1	
167	"	R2-1	24" X 30"	5.00	---	---	---	---	---	---	---	55 MPH, MOUNT ON BACK OF SIGN #167
168	"	I55-56	---	---	---	---	---	---	---	1	1	
169	"	D1-2	72" X 30"	15.00	---	---	---	2	---	1	2	SEE SIGN DETAIL SHEET
170	"	J4-1	24" X 36"	6.00	---	---	---	1	---	---	---	SOUTH STH 144
171	"	J4-1	---	---	---	---	---	---	---	---	---	PART OF REMOVAL FOR SIGN #172
172	"	D2-2	90" X 24"	15.00	---	---	2	---	---	1	2	SILVER CREEK 4, WEST BEND 18, SEE SIGN DETAIL SHEET
173	STH 144, AT STH 57 INTERSECTION	J3-1	24" X 57"	9.50	---	---	---	---	1	1	1	
174	"	R1-1	36" X 36"	7.46	---	---	---	---	1	1	1	
174A	"	R6-1R	36" X 12"	7.46	---	---	---	---	---	---	---	MOUNT ABOVE SIGN #174, PART OF REMOVAL FOR SIGN #174
175	"	R6-3A	30" X 24"	5.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #174, PART OF REMOVAL FOR SIGN #174
176	"	R1-1	36" X 36"	7.46	---	---	---	1	---	1	1	
177	STH 57	J3-1	---	---	---	---	---	---	---	1	1	
	PAGE SUBTOTALS			96.88	27.25	0.00	3	7	2	10	12	
	PROJECT TOTALS			**872.38**	**316.25**	**36.00**	**83**	**75**	**5**	**143**	**159**	

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 136 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420** BARRICADES TYPE III DAYS	643.0705** WARNING LIGHTS TYPE A DAYS	643.1050** SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
1	J4-2 (N-57; TO 144)									1	1	TO 144
2	500' S OF J1-1 (JCT 144)	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	W 20-2-A	48"x48"	1	136	136						
3	ACROSS FROM SIGN # 2 (MEDIAN SIDE)	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	W 20-2-A	48"x48"	1	136	136						
4	J1-1 (JCT 144)									1	1	JCT 144
5	MODIFY J2-2 (S-144-AH LT; N-57-AH)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	EXISTING									
	"	M 1-6	EXISTING									
	"	MO 6-1	21"x21"	1	136	136						AHEAD
6	MODIFY J2-1 (S-144-AH LT) MEDIAN SIDE	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	EXISTING									
	"	M 1-6	EXISTING									
	"	MO 6-1	21"x21"	1	136	136						AHEAD
7	D1-3 (AH-GREEN BAY; LT-RANDOM LAKE / WEST BEND)									1	1	RANDOM LAKE / WEST BEND
8	MODIFY J3-1 (S-144-LT; N-57-AH)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	EXISTING									
	"	M 1-6	EXISTING									
	"	MO 6-1	21"x21"	1	136	136						AHEAD
9	MODIFY J3-1 (S-144-AH LT) MEDIAN SIDE	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	EXISTING									
	"	M 1-6	EXISTING									
	"	MO 6-1	21"x21"	1	136	136						AHEAD
10	NW QUAD OF STH 144 & STH 57 INTERSECTION	R 11-3	60"x30"	1	136	136	136	272				1/2 MILE
11	LT OF J4-1 (N-57) NB @ STH 144 ON STH 57	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
12	ACROSS FROM SIGN # 11 (MEDIAN SIDE)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
13	200' N OF CTH D ON STH 57 NB	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
14	ACROSS FROM SIGN # 13 (MEDIAN SIDE)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
15	200' N OF CTH SS ON STH 57 NB	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
16	ACROSS FROM SIGN # 15 (MEDIAN SIDE)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	PAGE SUBTOTALS			33		4,488	136	272	0		3	

** ADDITIONAL QUANTITY LISTED ELSEWHERE

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 136 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420** BARRICADES TYPE III DAYS	643.0705** WARNING LIGHTS TYPE A DAYS	643.1050** SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
17	LT OF J1-1 (JCT A) ON STH 57 NB	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 5-1-L	21"x21"	1	136	136						
18	ACROSS FROM SIGN # 17 (MEDIAN SIDE)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 5-1-L	21"x21"	1	136	136						
19	BACK SIDE OF R 5-1-A (WRONG WAY) MEDIAN SIDE	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 6-1	21"x21"	1	136	136						LEFT
20	RT OF R4-7 (KEEP RIGHT) MEDIAN SIDE	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 6-1	21"x21"	1	136	136						LEFT
21	200' W OF STH 57 INTERSECTION ON CTH A	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
22	200' W OF CTH I INTERSECTION ON CTH A	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
23	200' W OF BATES RD INTERSECTION ON CTH A	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
24	200' W OF SILVER CREEK/ CASCADE RD INTERSECTION ON CTH A	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
25	ABOVE J1-2 (JCT 28; A-AH LT)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 5-1-L	21"x21"	1	136	136						
26	ABOVE J3-2 (A-LT; 28 DBL ARROW)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 6-1	21"x21"	1	136	136						LEFT
27	RT OF J4-1 (W-28) @ CTH A (EAST LEG)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
28	RT OF J4-1 (W-28) @ CTH A (WEST LEG)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
29	MODIFY J1-2 (JCT 144; JCT D)	MO 4-8-A	24"x18"	1	136	136						
	"	M1-6	EXISTING									
	PAGE SUBTOTALS			43		5,848	0	0	0		0	

** ADDITIONAL QUANTITY LISTED ELSEWHERE

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 136 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420** BARRICADES TYPE III DAYS	643.0705** WARNING LIGHTS TYPE A DAYS	643.1050** SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
30	J2-3 (N-144-AH LT; W-28-AH; S-144-AH)									1	1	N-144-AH RT
31	D1-3 (AH-KEWASKUM / WEST BEND; LT-RANDOM LAKE)									1	1	LT- RANDOM LAKE
32	J3-2 (N-144-LT; W-D-RT)									1	1	N-144-LT
33	500' S OF J1-1 (JCT D) ON STH 28	M 1-6	24"x24"	1	136	136						144
	"	W 20-2-A	48"x48"	1	136	136						
34	MODIFY J2-2 (E-28-AH; N-144- AH RT)	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	EXISTING									
	"	M 1-6	EXISTING									
	"	MO 6-1	21"x21"	1	136	136						AHEAD
35	D1-3 (AH-SHEBOYGAN; LT-NEW FANE; RT RANDOM LAKE)									1	1	RT-RANDOM LAKE
36	MODIFY J3-2 (W-D-LT; N-144-RT)	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	EXISTING									
	"	M 1-6	EXISTING									
	"	MO 6-1	21"x21"	1	136	136						AHEAD
37	SE QUAD OF STH 144 & STH 28 INTERSECTION	R 11-4	60"x30"	1	136	136	136	272				
38	LT OF J4-1 (E-28) ON STH 28 N OF STH 144	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
39	LT OF J4-1 (E-28) ON STH 28 N OF CTH SS	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
40	LT OF J12-1 (A-AH RT)	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 5-1-R	21"21"	1	136	136						
41	LT OF J4-1 (E-28) ON STH 28 N OF STH 28	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 6-1	21"21"	1	136	136						RIGHT
42	200' E OF STH 28 INTERSECTION ON CTH A	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
43	200' E OF SILVER CREEK / CASCADE RD INTERSECTION ON CTH A	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
44	200' E OF BATES RD INTERSECTION ON CTH A	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
45	200' E OF CTH I INTERSECTION ON CTH A	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
46	LT OF J1-1 (JCT 57)	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 5-1-R	21"21"	1	136	136						
	PAGE SUBTOTALS			37		5,032	136	272	0		4	CONTINUED ON NEXT PAGE

** ADDITIONAL QUANTITY LISTED ELSEWHERE

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 136 DAYS	643.3000 DETOUR SIGNS DAYS	643.0420** BARRICADES TYPE III DAYS	643.0705** WARNING LIGHTS TYPE A DAYS	643.1050** SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
47	RT OF J3-2 (E-A-AH; S-57-RT)	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 6-1	21"21"	1	136	136						RIGHT
48	500' N OF J1-1 (JCT A) ON STH 57 SB	M 3-3	24"x12"	1	136	136						
	"	M1-6	24"x24"	1	136	136						144
	"	W 20-2-A	48"x48"	1	136	136						
49	ACROSS FROM SIGN # 48 (MEDIAN SIDE)	M 3-3	24"x12"	1	136	136						
	"	M1-6	24"x24"	1	136	136						144
	"	W 20-2-A	48"x48"	1	136	136						
50	LT OF J1-1 (JCT A)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 5-1-R	21"21"	1	136	136						
51	ACROSS FROM SIGN # 50 (MEDIAN SIDE)	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 5-1-R	21"21"	1	136	136						
52	RT OF J13-1 (A-DBL ARROW)	MO 4-8	24"x12"	1	136	136						
	"	M 3-3	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
	"	MO 6-1	21"21"	1	136	136						RIGHT
53	RT OF J4-1 (S-57) @ CTH A ON STH 57 SB	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
54	ACROSS FROM SIGN # 53 (MEDIAN SIDE)	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
55	RT OF J4-1 (S-57) @ CTH SS ON STH 57 SB	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
56	ACROSS FROM SIGN # 55 (MEDIAN SIDE)	MO 4-8	24"x12"	1	136	136						
	"	M 3-1	24"x12"	1	136	136						
	"	M 1-6	24"x24"	1	136	136						144
57	MODIFY J1-1 (JCT 144)	MO 4-8-A	24"x18"	1	136	136						
	"	M 1-6	EXISTING									
58	J2-2 (S-57-AH; S-144-AH RT)									1	1	S-144-AH RT
59	D1-3 (AH-FREDONIA / MILWAUKEE; RANDOM LAKE-RT)									1	1	RANDOM LAKE-RT
60	J3-1 (S-144-RT)									1	1	S-144-RT
61	J4-1 (S-144) ON STH 144 WB @ STH 57									1	1	S-144
62	STH 144 WB W OF STH 57 - TO BE FIELD DETERMINED			1					7			
63	STH 144 EB E OF STH 28 - TO BE FIELD DETERMINED			1					7			
	PAGE SUBTOTALS			37		4,760	0	0	14		4	
	PROJECT TOTALS			**150**		**20,128**	**272**	**544**	**14**		**11**	

** ADDITIONAL QUANTITY LISTED ELSEWHERE

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PAVEMENT MARKING SUMMARY

CAT.	STATION	TO	STATION	LOCATION	646.0106 4 INCH C/L NO PASS YELLOW LF	646.0106 4 INCH C/L PASSING YELLOW LF	646.0106 4 INCH DOUBLE YELLOW LF	646.0126 8 INCH EPOXY LF	646.0406* SAME DAY 4 INCH C/L NO PASS YELLOW LF	646.0406* SAME DAY 4 INCH C/L PASSING YELLOW LF	646.0406* SAME DAY 4 INCH DOUBLE YELLOW LF	646.0600 REMOVING PAVEMENT MARKINGS LF	646.2304 GROOVED WET REFLECTIVE EPOXY 4 INCH LF	647.011 RAILROAD CROSSING EPOXY EACH	647.0566 STOP LINE EPOXY 18 INCH LF	647.0606 ISLAND NOSE EXPOXY EACH	647.0726 DIAGONAL EPOXY 12 INCH LF	649.0402** TEMPORARY PAINT 4 INCH C/L NO PASS YELLOW LF	649.0402** TEMPORARY PAINT 4 INCH C/L PASSING YELLOW LF	649.0402** TEMPORARY PAINT 4 INCH DOUBLE YELLOW LF	REMARKS
0010	200+52	-	210+95	STH 144	162	40	3848					299	1972		20		50				
	210+95	-	237+49	STH 144	3308	1328							5046								
	237+49	-	290+55	STH 144	5170	2654							10530								
	290+55	-	298+63	STH 144		404							1392								
	298+63	-	316+68	STH 144	2034	902							3501								
	316+68	-	342+84	STH 144	2808	1160	1188	150					4986								
	342+84	-	395+98	STH 144	6384	2474	552						10239								
	395+98	-	448+64	STH 144	6326	1746	7108	300					10204								
	448+67	-	478+67	STH 144	1026	256	9948	543					5807								
	478+67	-	506+90	STH 144			11292	60					5479			2					
	506+90	-	523+49	STH 144			6636				6636		3140							13272	
	523+49	-	560+23	STH 144	3298	1114	5784		3298	1114	5784		7290					6596	712	11568	
	20+25	-	20+96	LONE PINE			284														
	88+27	-	88+75	CTH DE			192						258								
	80+24	-	81+28	SILVER CREEK			416														
	98+40	-	99+75	LYNN (S)	270	68															
	100+12	-	101+57	LYNN (N)	290	72															
	108+45	-	109+75	CTH I (S)			520						160								
	110+24	-	111+45	CTH I (N)	242	60							142								
	118+30	-	119+75	CTH K	290	72		35													
				CTH A										2							TO BE COMPLETED WITH DETOUR SET UP
				SUBTOTAL	31608	12350	47768		3298	1114	12420							6596	712	24840	
				TOTAL 0010		91726		1088		16832		299	70146	2	20	2	50		32148		

* APPLIED AFTER UPPER LAYER OF PAVEMENT IS COMPLETE

** APPLIED AFTER MILLING AND LOWER LAYER OF PAVEMENT

3

CONSTRUCTION STAKING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	650.4000 STORM SEWER EACH	650.4500 SUBGRADE LF	650.500 BASE LF	650.5500 CURB GUTTER AND CURB & GUTTER LF	650.6000 PIPE CULVERTS EACH	650.6500 STRUCTURE LAYOUT 01. WALL MODULAR BLOCK LUMP	650.8000 RESURFACE REFERENCE LF	650.9920 SLOPE STAKES LF
0010	201+00		560+23	STH 144							35973	
	209+80	-	213+00	STH 144		320	320					320
	231+40	-	233+95	STH 144		255	255					255
	234+96	-	236+97	STH 144		201	201	323				201
	238+04		239+05	STH 144		101	101					101
	248+30	-	250+62	STH 144		232	232					232
	251+40	-	253+54	STH 144		214	214					214
	254+54	-	256+76	STH 144		222	222					222
	258+48	-	260+62	STH 144		214	214					214
	279+70	-	282+70	STH 144		300	300	58				300
	298+80	-	301+60	STH 144		280	280	76				280
	304+30	-	348+06	STH 144	44	4376		8333				4376
	357+00	-	359+80	STH 144		280	280		1			280
	381+00	-	383+50	STH 144		250	250		2			250
	394+30	-	397+30	STH 144		300	300					300
	402+75	-	403+80	STH 144		105	105		1			105
	423+20	-	424+70	STH 144		150	150		1			150
	434+40	-	439+80	STH 144		540	540			1		540
	444+00	-	452+50	STH 144		850	850		2			850
	462+00	-	468+50	STH 144		650	650					650
	488+70	-	491+00	STH 144		230	230					230
	507+00	-	517+30	STH 144		1030	1030		1			1030
	530+90	-	536+20	STH 144		530	530		1			530
	20+20	-	20+96	LONE PINE		76		187	1			76
	29+41	-	29+80	Riverview		39	39	63				39
	70+20	-	71+63	Schroeter		143		84				143
	80+20	-	81+28	SILVER CREEK ROAD		108		84				108
	88+28	-	90+18	CTH DE		190	190	105				190
	98+42	-	99+80	LYNN ROAD (SOUTH)		138		158	1			138
	100+20	-	101+59	LYNN ROAD (NORTH)		139		158				139
	108+50	-	109+80	CTH I (SOUTH)		130	130	158				130
	110+20	-	111+44	CTH I (NORTH)		124	124	158				124
	00+20	-	02+16	PE		196	196					196
	119+00	-	119+80	CTH K				150				
				TOTAL 0010	44	12913	7933	10095	11	1	35973	12913

SAWING ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 LF
0010			201+00	STH 144	42
	201+00	-	202+75	STH 144 LT	175
			210+25	STH 144 RT	21
			212+11	STH 144 RT	22
			262+67	STH 144 RT	43
			292+58	STH 144 RT	17
			293+85	STH 144 RT	18
			295+86	STH 144 LT	15
			298+13	STH 144 LT	15
			310+79	STH 144 LT	13
			311+90	STH 144 RT	20
			319+69	STH 144 LT	10
			320+73	STH 144 LT	66
			323+72	STH 144 LT	16
			324+64	STH 144 RT	16
			326+70	STH 144 LT	18
			333+18	STH 144 LT	31
			335+21	STH 144 LT	35
			338+76	STH 144 RT	18
			345+10	STH 144 LT	35
			423+03	STH 144 LT	16
			426+89	STH 144 LT	22
			434+90	STH 144 LT	10
			2+16	PE (465+00 LT)	21
			468+46	STH 144 RT	31
			511+56	STH 144 RT	12
			517+38	STH 144 RT	24
			517+89	STH 144 RT	14
			518+36	STH 144 LT	17
			518+57	STH 144 RT	15
			518+96	STH 144 RT	14
			519+72	STH 144 RT	23
			520+39	STH 144 RT	13
			520+39	STH 144 LT	16
			522+65	STH 144 LT	18
			524+77	STH 144 LT	28
			528+96	STH 144 LT	11
			560+23	STH 144	31
				SUBTOTAL	982

SAWING ASPHALT (CONTINUED)

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 LF
0010			20+96	LONE PINE	20
			28+84	RIVERVIEW	20
			40+36	CAMP ANAWA (N)	21
			59+50	CAMP ANAWA (S)	28
			71+36	SCHROETER	22
			81+28	SILVER CREEK	21
			88+28	CTH DE	24
			98+42	LYNN (S)	23
			101+59	LYNN (N)	20
			108+75	CTH I (S)	27
			111+44	CTH I (N)	24
			119+00	CTH K	40
			129+08	CARROLL	30
			168+95	STARK	24
			29+33	RIVERVIEW LT	10
	80+34	-	81+28	SILVER CREEK RT	115
			101+59	LYNN (N)	20
			108+75	CTH I (S)	27
			111+44	CTH I (N)	24
			119+00	CTH K	40
			129+08	CARROLL	30
			168+95	STARK	24
			29+33	RIVERVIEW LT	10
	80+34	-	81+28	SILVER CREEK RT	115
				SUBTOTAL	759
				TOTAL 0010	1741

SAWING CONCRETE

CATEGORY	STATION	TO	STATION	LOCATION	690.0250 LF
0010			281+48	STH 144	40
			299+00	STH 144	40
			301+16	STH 144	48
	304+47		315+62	STH 144 LT	1115
	306+61		342+35	STH 144 RT	3574
			306+81	STH 144	40
			309+53	STH 144	40
			311+70	STH 144	40
			311+57	STH 144 LT	4
			313+88	STH 144	40
			314+38	STH 144 RT	17
			314+73	STH 144 LT	24
			316+05	STH 144	40
			316+05	STH 144 RT	17
			316+32	STH 144	40
			316+68	STH 144 RT	16
			317+46	STH 144	40
	318+00		342+46	STH 144 LT	2455
			318+85	STH 144	40
			321+14	STH 144 LT	16
			321+81	STH 144	40
			325+04	STH 144	40
			325+80	STH 144 LT	11
			326+72	STH 144 RT	4
			326+80	STH 144 LT	3
			328+57	STH 144 RT	21
			328+84	STH 144	40
			329+51	STH 144 LT	38
			332+56	STH 144 LT	12
			332+74	STH 144	40
			334+06	STH 144 LT	60
			334+22	STH 144 RT	15
			339+27	STH 144 RT	3
			342+69	STH 144	40
	343+07		348+32	STH 144 RT	524
			358+30	STH 144	40
			382+87	STH 144	40
			396+04	STH 144	10
			396+79	STH 144	10
			403+27	STH 144	40
			418+06	STH 144	20
			418+42	STH 144	20
			424+01	STH 144	40
	434+60		439+32	STH 144 LT	472
			447+23	STH 144	40
			448+89	STH 144	40
			449+42	STH 144	40
			532+63	STH 144	40
				TOTAL 0010	9429

3

PRECAST CONCRETE BOX CULVERT EXTENSION AND END SECTION

CATEGORY	STATION	LOCATION	SPV.0060 01. PRECAST CONCRETE BOX CULVERT EXTENSION 4 X 3 EACH	SPV.0060 02. PRECAST CONCRETE BOX CULVERT END SECTON 4 X 3 EACH	REMARKS
0010	513+11	STH 144 LT	1	1	CONCRETE COLLAR REQUIRED
		TOTAL 0010	1	1	

SPECIAL 01. WALL MODULAR BLOCK GRAVITY LRFD

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0165 SF	REMARKS
0010	436+11	-	439+32	STH 144 LT	1576	
				TOTAL 0010	1576	

SPECIAL 03. SALVAGE BOX CULVERT GRATE

CATEGORY	STATION	LOCATION	SPV.0060 EACH	REMARKS
0010	513+11	STH 144 RT	1	
		TOTAL 0010	1	

SPECIAL 04. REMOVING CARBIDE PIT GENERATOR

CATEGORY	STATION	LOCATION	SPV.0060 EACH	REMARKS
0010	309+90	STH 144 LT	1	
		TOTAL 0010	1	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 6525-06-21

STH 28 - STH 57

STH 144, RANDOM LAKE
SHEBOYGAN COUNTY

NOTES:

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, SHEBOYGAN COUNTY, NAD 83 (91 ADJUSTMENT) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES, GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" I.D. X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT

DISTANCES SHOWN FROM THE RIGHT-OF-WAY LINE TO BUILDINGS ARE APPROXIMATE ONLY.

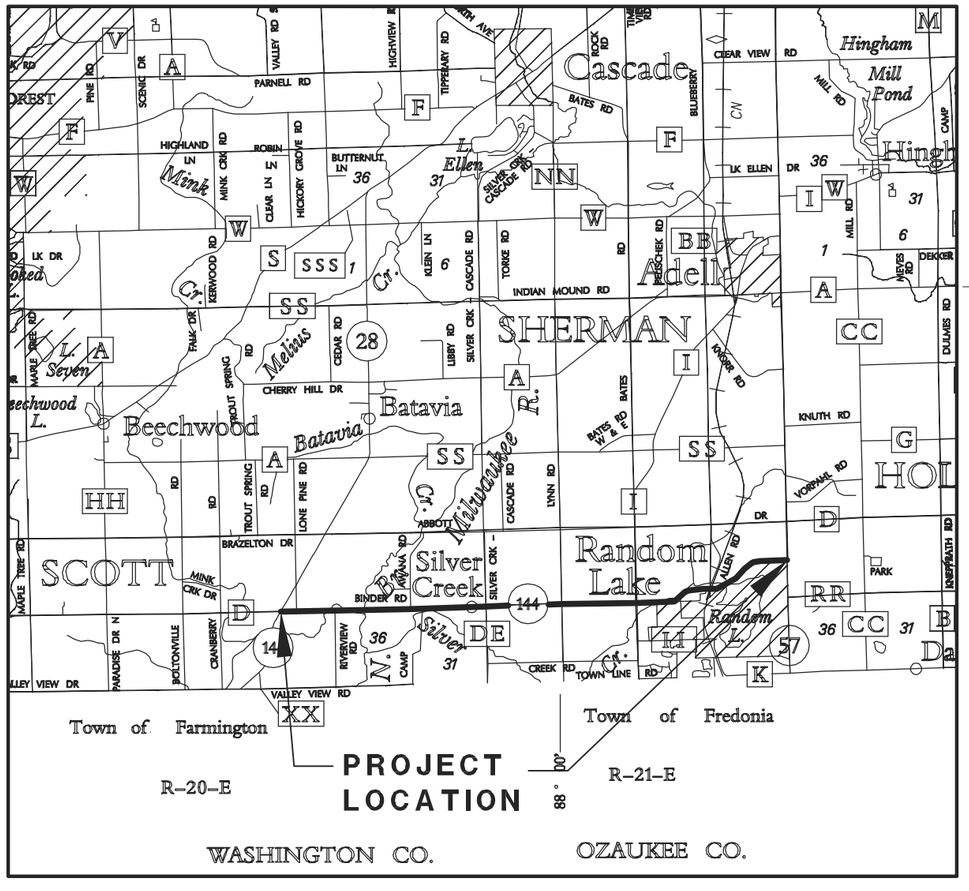
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 144 ESTABLISHED FROM PREVIOUS PROJECT STATE AID PROJECT 2100, STATE PROJECT I.D. 4525-3-22, STATE PROJECT I.D. 4525-1-21, AND STATE PROJECT S 0521 (1). EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM TOWN ROAD RECORDS OR CENTERLINE OF EXISTING PAVEMENTS.

A **TEMPORARY LIMITED EASEMENT** (T.L.E.) 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 TLE'S EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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



LAYOUT
SCALE 0 1 MI.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	SECTION LINE	S/L
CORNER	COR.	STATION	STA.
DOCUMENT	DOC.	TEMPORARY LIMITED EASEMENT	T.L.E.
EASEMENT	EASE.	VOLUME	V.
HIGHWAY EASEMENT	H.E.	**CURVE DATA**	
LAND CONTRACT	LC	LONG CHORD	LCH
MONUMENT	MON.	LONG CHORD BEARING	LCB
PAGE	P.	RADIUS	R
PERMANENT LIMITED EASEMENT	P.L.E.	DEGREE OF CURVE	D
PROPERTY LINE	P.L.	CENTRAL ANGLE OR DELTA	DELTA
RECORDED AS	(100')	LENGTH OF CURVE	L
		TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LF (1" UNLESS NOTED)	PROPOSED R/W LINE
		EXISTING H.E. LINE
R/W MONUMENT	●(SET)	PROPERTY LINE
R/W STANDARD	▲(SET)	LOT & TIE LINES
SIGN	SIGN	SLOPE INTERCEPTS
SECTION CORNER MONUMENT		CORPORATE LIMITS
SECTION CORNER SYMBOL	PLSS MARK AVAIL	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)
PERMANENT LIMITED EASEMENT		SECTION LINE
R/W BOUNDARY POINT	RWB20	QUARTER LINE
PARCEL NUMBER	102	SIXTEENTH LINE
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE
BUILDING		PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES 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		

PROJECT NUMBER 6525-06-21 - 4.01
SHEET 2 OF 2
AMENDMENT NO:___

101

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.01

PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 26, PART OF THE NE 1/4 OF THE NE 1/4 OF SECTION 35, AND PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 36, ALL IN TOWNSHIP 13 NORTH, RANGE 20 EAST, TOWN OF SCOTT, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2002962
SHEBOYGAN COUNTY WI
RECORDED ON
05/15/2015 11:45 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 145

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.01
AMENDMENT NO:---
SHEET 1 OF 2

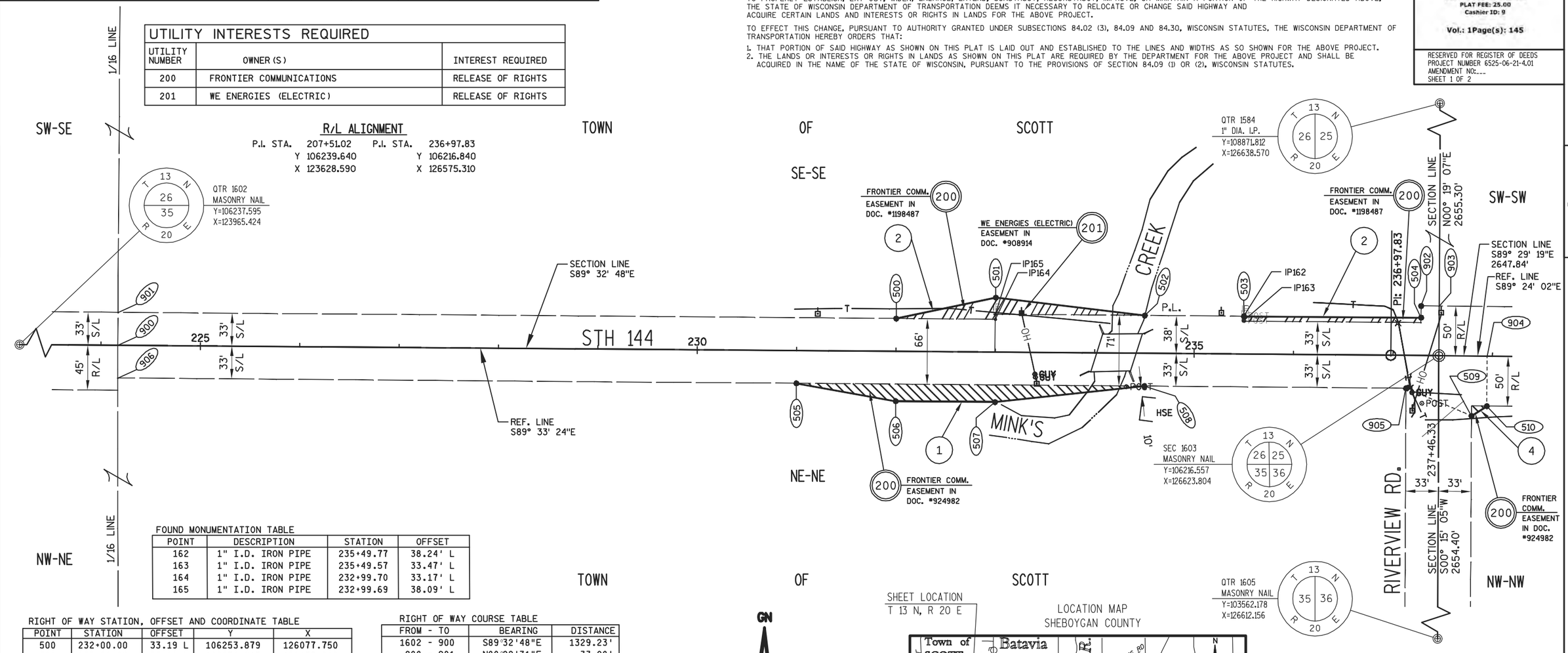
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
1	BOEHLKE BOTTLED GAS CORP., ETAL	FEE	3865	11550	15415	-----	-----
2	GERALD H. ARNDT & PATRICIA A. ARNDT	FEE	3244	9165	12409	-----	-----
4	BOEHLKE BOTTLED GAS CORP.	FEE	77	2770	2847	-----	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS



FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
162	1" I.D. IRON PIPE	235+49.77	38.24' L
163	1" I.D. IRON PIPE	235+49.57	33.47' L
164	1" I.D. IRON PIPE	232+99.70	33.17' L
165	1" I.D. IRON PIPE	232+99.69	38.09' L

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
500	232+00.00	33.19 L	106253.879	126077.750
501	233+00.00	55.00 L	106274.917	126177.916
502	234+50.00	38.14 L	106256.901	126327.781
503	235+49.70	38.13 L	106256.112	126427.481
504	237+27.86	38.19 L	106254.712	126605.739
505	231+00.00	32.79 R	106188.673	125977.243
506	232+00.00	50.00 R	106170.693	126077.106
507	233+00.00	50.00 R	106169.920	126177.103
508	234+50.00	32.86 R	106185.903	126327.232
509	237+79.69	60.00 R	106155.987	126656.539
510	237+95.00	50.00 R	106165.826	126671.950
900	224+17.09	0.33 L	106227.076	125294.614
901	224+17.06	33.33 L	106260.075	125294.830
902	237+27.86	50.00 L	106266.523	126605.863
903	237+46.08	50.00 L	106266.333	126624.081
904	237+94.92	0.30 L	106216.123	126672.399
905	237+13.53	32.86 R	106183.818	126590.660
906	224+17.37	32.67 R	106194.075	125294.635
1602	210+87.86	0.56 L	106237.595	123965.424
1603	237+46.33	0.22 L	106216.557	126623.804

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1602 - 900	S89°32'48"E	1329.23'
900 - 901	N00°22'31"E	33.00'
901 - 500	S89°32'48"E	782.94'
500 - 501	N78°08'20"E	102.35'
501 - 502	S83°08'43"E	150.94'
502 - 503	S89°32'48"E	99.70'
503 - 504	S89°33'00"E	178.26'
504 - 902	N00°35'58"E	11.81'
902 - 903	S89°24'02"E	18.22'
903 - 1603	S00°19'07"W	49.78'
1603 - 904	S89°29'19"E	48.60'
904 - 510	S00°30'42"W	50.30'
510 - 509	S57°26'39"W	18.29'
509 - 905	N67°05'52"W	71.52'
905 - 508	N89°32'48"W	263.44'
508 - 507	S83°55'22"W	150.98'
507 - 506	N89°33'24"W	100.00'
506 - 505	N79°47'38"W	101.47'
505 - 906	N89°32'48"W	682.63'
906 - 900	N00°02'10"W	33.00'

GN

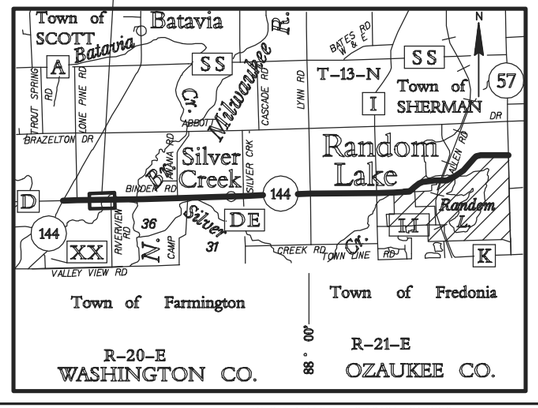
SCALE, FEET
0 50 100

EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	PROJ. I.D. 4525-3-22
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS
RIVERVIEW RD.	TOWN ROAD RECORDS

SHEET LOCATION
T 13 N, R 20 E

LOCATION MAP
SHEBOYGAN COUNTY



PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kenneth R. Wolf 5-11-2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van Erem 5-12-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040101_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/11/2015 1:23 PM
PLOT BY : LAHAYE, CHRIS
PLOT NAME : 040101_RP.DWG_

DETAIL SHEET 4.01

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.02

PART OF THE SE 1/4 OF THE SW 1/4 OF SECTION 25, PART OF THE NW 1/4 OF THE NW 1/4, AND THE NE 1/4 OF THE NW 1/4 OF SECTION 36, ALL IN TOWNSHIP 13 NORTH, RANGE 20 EAST, TOWN OF SCOTT, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004533
SHEBOYGAN COUNTY WI
RECORDED ON
06/16/2015 2:31 PM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 149

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.02
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

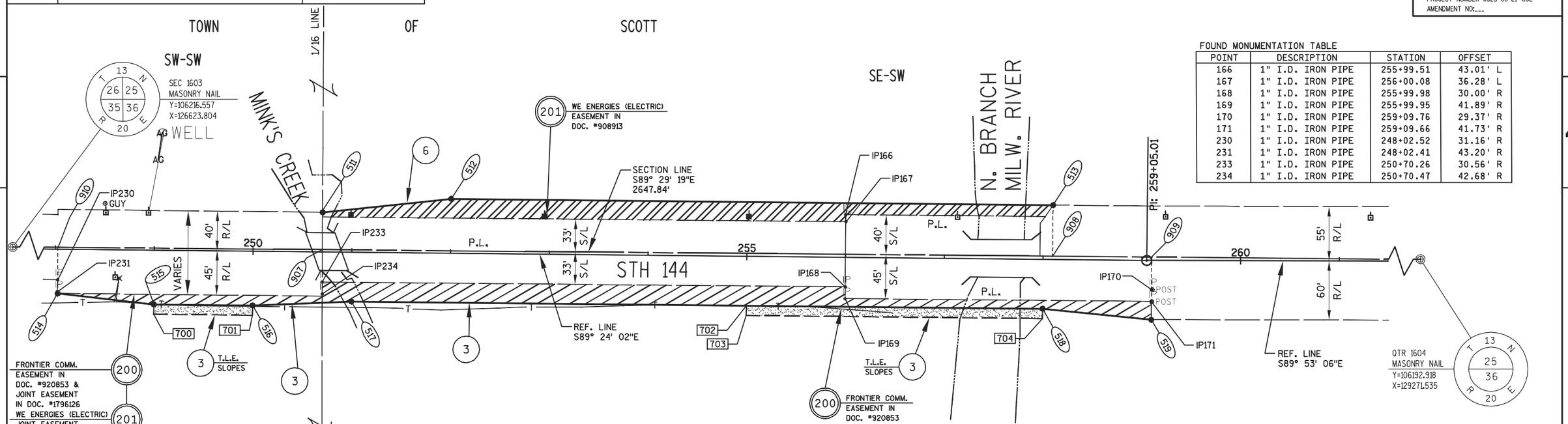
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
3	GERALD MERKEL & JANICE MERKEL	FEE & T.L.E.	15622	30083	45705	4000	-----
6	JEFFRY H. KRIER	FEE	11694	17468	29162	----	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

R/L ALIGNMENT

P.I. STA. 236+97.83 P.I. STA. 259+05.01
Y 106216.840 Y 106193.750
X 126575.310 X 128782.370



FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
166	1" I.D. IRON PIPE	255+99.51	43.01' L
167	1" I.D. IRON PIPE	256+00.08	36.28' L
168	1" I.D. IRON PIPE	255+99.98	30.00' R
169	1" I.D. IRON PIPE	255+99.95	41.89' R
170	1" I.D. IRON PIPE	259+09.76	29.37' R
171	1" I.D. IRON PIPE	259+09.66	41.73' R
230	1" I.D. IRON PIPE	248+02.52	31.16' R
231	1" I.D. IRON PIPE	248+02.41	43.20' R
233	1" I.D. IRON PIPE	250+70.26	30.56' R
234	1" I.D. IRON PIPE	250+70.47	42.68' R

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
511	250+70.08	40.00 L	106242.482	127947.899
512	252+00.00	55.00 L	106256.122	128077.972
513	258+09.54	55.00 L	106249.746	128687.481
514	248+02.52	45.00 R	106160.286	127679.471
515	249+00.08	55.00 R	106149.266	127776.922
516	250+00.08	55.00 R	106148.220	127876.916
517	251+00.00	50.00 R	106152.174	127976.879
518	258+00.00	50.00 R	106144.851	128676.840
519	259+09.65	60.00 R	106133.741	128786.889
700	249+00.08	65.00 R	106139.266	127776.817
701	250+00.08	65.00 R	106138.220	127876.812
702	255+00.00	50.00 R	106147.990	128376.857
703	255+00.00	60.00 R	106137.990	128376.752
704	258+00.00	60.00 R	106134.852	128676.736
907	250+70.24	2.26 L	106204.738	127947.670
908	258+09.62	3.39 L	106198.137	128687.021
909	259+10.09	3.50 L	106197.240	128787.456
910	248+02.45	1.84 L	106207.128	127679.889
1603	237+46.33	0.22 L	106216.557	126623.804
1604	263+94.18	0.15 L	106192.918	129271.535

RIGHT OF WAY COURSE TABLE

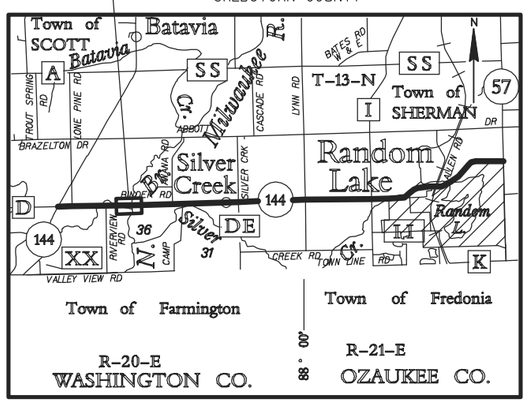
FROM - TO	BEARING	DISTANCE
1603 - 910	S89°29'19"E	1056.13'
910 - 907	S89°29'19"E	267.79'
907 - 511	N00°20'51"E	37.75'
511 - 512	N84°00'49"E	130.79'
512 - 513	S89°24'02"E	609.54'
513 - 908	S00°30'41"W	51.61'
908 - 909	S89°29'19"E	100.44'
909 - 519	S00°30'41"W	63.50'
519 - 518	N84°14'06"W	110.61'
518 - 517	N89°24'02"W	700.00'
517 - 516	S87°44'04"W	100.04'
516 - 515	N89°24'02"W	100.00'
515 - 514	N83°32'53"W	98.07'
514 - 910	N00°30'41"E	46.84'
909 - 1604	S89°29'19"E	484.10'

EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	PROJ. I.D. 4525-3-22
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS

SHEET LOCATION
T 13 N, R 20 E

LOCATION MAP
SHEBOYGAN COUNTY



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van Erem 6-3-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040102_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/29/2015 4:31 PM PLOT BY : LAHAYE, CHRIS PLOT NAME : 040102_RP.DWG_

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
5	GERALD MERKEL	T.L.E.	-----	-----	------	4128	-----
8	DANIEL L. DOLLERT & DAVID L. DOLLERT	FEE	2950	13208	16158	-----	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.03

PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 25, AND PART OF THE NE 1/4 OF THE NE 1/4 OF SECTION 36, ALL IN TOWNSHIP 13 NORTH, RANGE 20 EAST, TOWN OF SCOTT, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

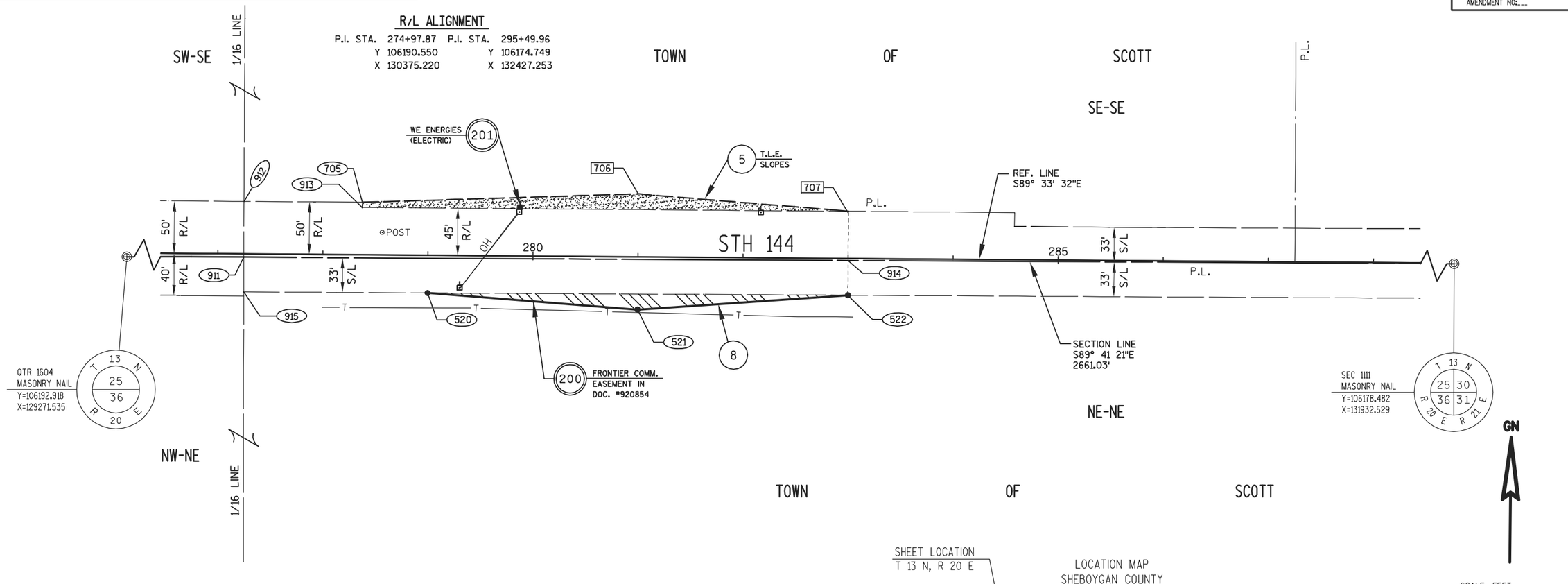
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004534
SHEBOYGAN COUNTY WI
RECORDED ON
06/16/2015 2:38 PM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9
Vol.: 1Page(s): 150

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.03
AMENDMENT NO:___



RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
520	279+00.00	35.71 R	106151.750	130777.068
521	281+00.00	50.00 R	106135.915	130976.951
522	283+00.00	34.80 R	106149.580	131177.063
705	278+37.22	50.00 L	106237.935	130714.951
706	281+00.00	60.00 L	106245.912	130977.799
707	283+00.00	45.00 L	106229.372	131177.677
911	277+24.71	3.10 R	106185.700	130602.032
912	277+24.59	50.00 L	106238.803	130602.328
913	278+37.22	45.00 L	106232.936	130714.912
914	283+00.00	1.79 R	106182.579	131177.317
915	277+24.93	36.10 R	106152.700	130602.002
1111	290+55.22	0.08 R	106178.482	131932.529
1604	263+94.18	0.15 L	106192.918	129271.535

RIGHT OF WAY COURSE TABLE

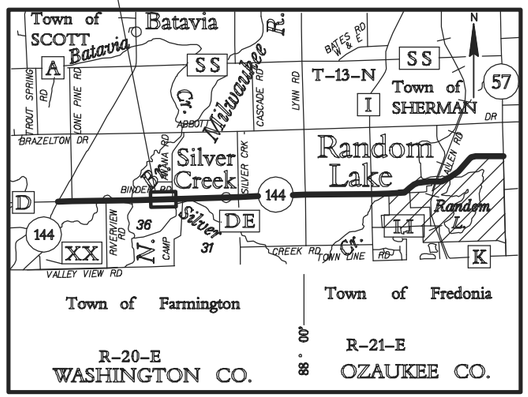
FROM - TO	BEARING	DISTANCE
1604 - 911	S89°41'21"E	1330.52'
911 - 912	N00°19'08"E	53.10'
912 - 705	S89°33'32"E	112.63'
705 - 913	S00°26'28"W	5.00'
913 - 707	S89°33'32"E	462.78'
707 - 914	S00°26'28"W	46.79'
914 - 522	S00°26'28"W	33.00'
522 - 521	S86°05'37"W	200.58'
521 - 520	N85°28'14"W	200.51'
520 - 915	N89°41'21"W	175.07'
915 - 911	N00°03'08"E	33.00'
914 - 1111	S89°41'21"E	755.22'

EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS

SHEET LOCATION
T 13 N, R 20 E

LOCATION MAP
SHEBOYGAN COUNTY



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM 6-3-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040103_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/29/2015 4:35 PM PLOT BY : LAHAYE, CHRIS PLOT NAME : 040103_RP.DWG_

DETAIL SHEET 4.03

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.04

PART OF THE SE 1/4 OF THE SW 1/4 OF SECTION 30, AND PART OF THE NE 1/4 OF THE NW 1/4 OF SECTION 31, ALL IN TOWNSHIP 13 NORTH, RANGE 21 EAST, TOWN OF SHERMAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004535
SHEBOYGAN COUNTY WI
RECORDED ON
06/16/2015 2:44 PM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 151

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.04
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
12	DAVID H. LIDER	T.L.E.	-----	-----	------	1205	-----
16	TIMM D. RISSE	T.L.E.	-----	-----	------	2328	-----
18	RYAN C. ELBE	T.L.E.	-----	-----	------	3169	-----
19	MARK J. MONDLOCH & SYLVIA J. MONDLOCH	T.L.E.	-----	-----	------	1946	-----
22	JEFFREY J. HEMSCHEMEYER	FEE & T.L.E.	841	-----	841	4396	-----
23	CHAD M. ARNDT & SANDRA K. WETOR	T.L.E.	-----	-----	------	1680	-----
24	GREGORY D. STRAUB & MELISSA C. WESSING	T.L.E.	-----	-----	------	2617	-----

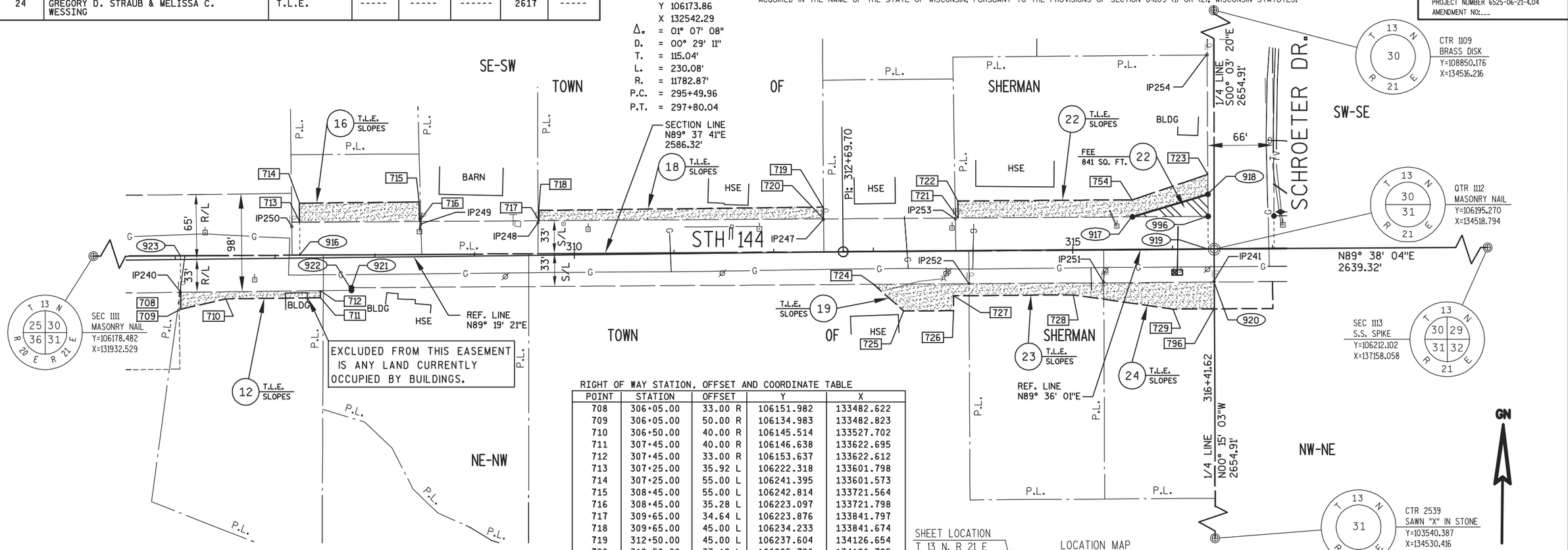
R/L ALIGNMENT

P.I. STA. 312+69.705
Y 106192.840
X 134146.890

P.I. STA. 322+57.63
Y 106199.730
X 135134.790

R/L CURVE DATA

P.I. = 296+65.00
Y 106173.86
X 132542.29
Δ = 01° 07' 08"
D. = 00° 29' 11"
T. = 115.04'
L. = 230.08'
R. = 11782.87'
P.C. = 295+49.96
P.T. = 297+80.04



EXISTING R/W REFERENCE TABLE

ROAD OR STRE	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS
SCHROETER RD	SILVER VIEW SUBD.

FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
240	1" I.D. IRON PIPE	306+04.51	32.85' R
241	1" I.D. IRON PIPE	316+41.30	32.55' R
247	1" O.D. IRON PIPE	312+50.30	32.33' L
248	1" O.D. IRON PIPE	309+64.07	32.61' L
249	1" I.D. IRON PIPE	308+46.72	32.67' L
250	1" O.D. IRON PIPE	307+17.15	31.53' L
251	1" O.D. IRON PIPE	315+30.64	32.52' R
252	1" O.D. IRON PIPE	313+95.60	32.92' R
253	1" O.D. IRON PIPE	313+82.25	31.88' L

RIGHT OF WAY COURSE TABLE

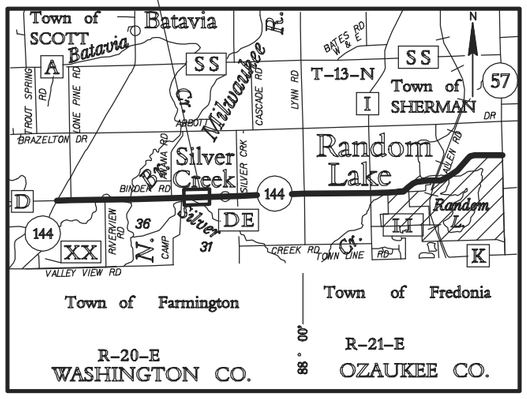
FROM - TO	BEARING	DISTANCE
1111 - 923	N89°37'41"E	1549.89'
923 - 916	N89°37'41"E	119.63'
916 - 713	N00°22'19"W	33.00'
713 - 917	N89°37'41"E	835.00'
917 - 918	N73°21'04"E	79.07'
918 - 996	S00°22'15"E	22.16'
996 - 919	S00°22'19"E	33.00'
919 - 1112	N89°37'41"E	5.90'
1112 - 920	S00°15'03"E	33.00'
920 - 921	S89°37'41"W	865.09'
921 - 922	S00°40'39"E	2.65'
922 - 708	S89°19'21"W	171.29'
708 - 923	N00°22'19"W	36.56'

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
708	306+05.00	33.00 R	106151.982	133482.622
709	306+05.00	50.00 R	106134.983	133482.823
710	306+50.00	40.00 R	106145.514	133527.702
711	307+45.00	40.00 R	106146.638	133622.695
712	307+45.00	33.00 R	106153.637	133622.612
713	307+25.00	35.92 L	106222.318	133601.798
714	307+25.00	55.00 L	106241.395	133601.573
715	308+45.00	55.00 L	106242.814	133721.564
716	308+45.00	35.28 L	106223.097	133721.798
717	309+65.00	34.64 L	106223.876	133841.797
718	309+65.00	45.00 L	106234.233	133841.674
719	312+50.00	45.00 L	106237.604	134126.654
720	312+50.00	33.12 L	106225.726	134126.795
721	313+85.00	32.96 L	106226.604	134261.953
722	313+85.00	50.00 L	106243.643	134261.834
723	316+35.75	75.00 L	106270.391	134512.408
724	313+00.00	33.00 R	106160.053	134177.415
725	313+30.00	60.00 R	106133.262	134207.602
726	313+80.00	60.00 R	106133.611	134257.601
727	313+80.00	45.00 R	106148.610	134257.496
728	315+00.00	45.00 R	106149.447	134377.493
729	316+00.00	60.00 R	106135.145	134477.596
754	315+59.84	50.00 L	106244.862	134436.666
796	316+41.46	60.00 R	106135.434	134519.056
916	307+24.82	2.92 L	106189.319	133602.013
917	315+59.84	32.88 L	106227.738	134436.785
918	316+35.74	55.00 L	106250.392	134512.537
919	316+35.72	0.16 R	106195.232	134512.895
920	316+41.53	33.16 R	106162.270	134518.939
921	307+76.29	30.35 R	106156.655	133653.867
922	307+76.29	33.00 R	106154.007	133653.898
923	306+05.20	3.56 L	106188.542	133482.385
996	316+35.73	32.84 L	106228.231	134512.681
1111	290+55.22	0.08 R	106178.482	131932.529
1112	316+41.62	0.16 R	106195.270	134518.794

SHEET LOCATION
T 13 N, R 21 E

LOCATION MAP
SHEBOYGAN COUNTY



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van Erem 6-3-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040104_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/29/2015 4:37 PM
PLOT BY : LAHAYE, CHRIS
PLOT NAME : 040104_RP.DWG_

DETAIL SHEET 4.04

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.05

PART OF THE SW 1/4 OF THE SE 1/4 OF SECTION 30, AND PART OF THE NW 1/4 OF THE NE 1/4 OF SECTION 31, ALL IN TOWNSHIP 13 NORTH, RANGE 21 EAST, TOWN OF SHERMAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004536
SHEBOYGAN COUNTY WI
RECORDED ON
06/16/2015 2:51 PM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 152

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.05
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
26	BRAD P. BAUMANN & LAUREN M. HEMSCHEMEYER	T.L.E	-----	-----	-------	1569	-----
27	JOSEPH P. HUEBNER & LYDIA R. HUEBNER	T.L.E	-----	-----	-------	2769	-----
28	DENNIS J. HARTWIG & JILL HARTWIG	T.L.E.	-----	-----	-------	3203	-----
29	JOHN H. TRICE & LISA J. WALSH	T.L.E.	-----	-----	-------	946	-----
31	RONALD G HICKS & CATHERINE B. HICKS	T.L.E.	-----	-----	-------	2693	-----
32	MATTHEW J. RESEBURG	T.L.E.	-----	-----	-------	1309	-----
34	WALT A. RUBEN	T.L.E.	-----	-----	-------	257	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS
203	TIME WARNER ENTERTAINMENT CO.	RELEASE OF RIGHTS

R/L ALIGNMENT

P.I. STA. 312+69.705
Y 106192.840
X 134146.890

P.I. STA. 322+57.63
Y 106199.730
X 135134.790

P.I. STA. 328+50.83
Y 106203.930
X 135727.980

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1112 - 924	N89°38'05"E	60.10'
924 - 925	N00°21'55"W	33.00'
925 - 926	N89°38'05"E	598.26'
926 - 928	S00°24'20"E	33.00'
928 - 753	S00°24'20"E	33.00'
753 - 920	S89°38'05"W	658.47'
920 - 1112	N00°15'03"W	33.00'
928 - 1113	N89°38'05"E	1917.95'

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
730	317+00.00	60.00 R	106135.842	134577.593
731	317+00.00	33.20 R	106162.643	134577.406
732	317+01.75	65.00 L	106260.852	134578.471
733	317+28.59	45.00 L	106241.039	134605.452
734	322+00.00	45.00 L	106244.327	135076.849
735	322+00.00	55.00 L	106254.327	135076.779
736	322+57.62	55.00 L	106254.729	135134.401
737	322+57.63	32.47 L	106232.198	135134.560
749	320+00.00	33.38 R	106164.556	134877.400
750	320+00.00	45.00 R	106152.934	134877.481
751	322+52.63	45.00 R	106154.731	135135.104
752	323+00.00	45.00 R	106155.031	135177.479
753	323+00.00	33.56 R	106166.470	135177.398
796	316+41.46	60.00 R	106135.434	134519.056
920	316+41.53	33.16 R	106162.270	134518.939
924	317+01.71	0.20 R	106195.653	134578.890
925	317+01.73	32.80 L	106228.653	134578.679
926	323+00.00	32.44 L	106232.468	135176.930
928	323+00.00	0.56 R	106199.469	135177.164
1112	316+41.62	0.16 R	106195.270	134518.794
1113	342+80.94	0.07 R	106212.102	137158.058

EXISTING R/W REFERENCE TABLE

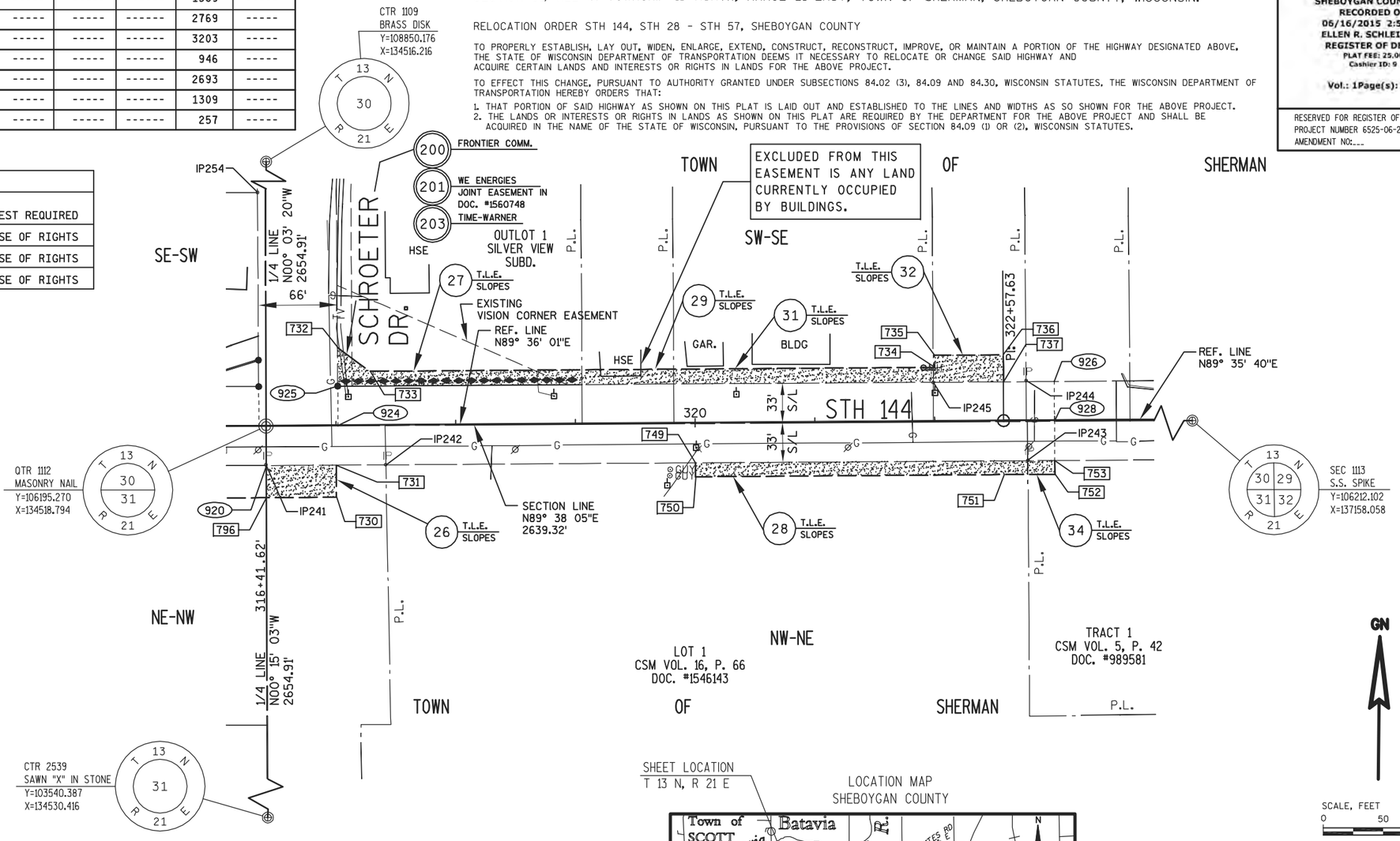
ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS
SCHROETER RD.	SILVER VIEW SUBD.

EXISTING ACCESS CONTROL REFERENCE TABLE

ROAD OR STREET	BASIS OF ACCESS CONTROL
STH 144	SILVER VIEW SUBD.

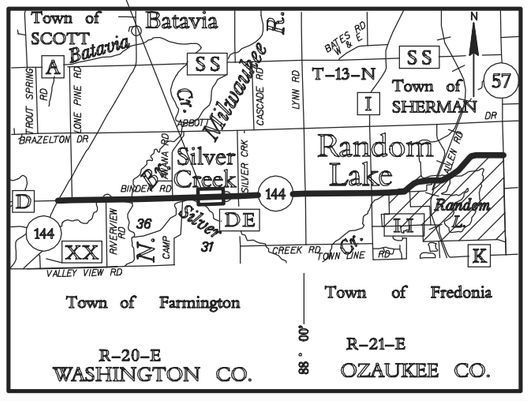
FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
241	1" O.D. IRON PIPE	316+41.30	32.55' R
242	1" O.D. IRON PIPE	317+41.40	33.18' R
243	1" I.D. IRON PIPE	322+77.59	33.04' R
244	1" I.D. IRON PIPE	322+76.45	33.49' L
245	1" I.D. IRON PIPE	321+98.98	32.48' L



SHEET LOCATION
T 13 N, R 21 E

LOCATION MAP
SHEBOYGAN COUNTY



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM 6-3-2015
PRINTED NAME SIGNATURE DATE

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.06

PART OF THE SW 1/4 OF THE SE 1/4 OF SECTION 30,
TOWNSHIP 13 NORTH, RANGE 21 EAST, TOWN OF SHERMAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004537
SHEBOYGAN COUNTY WI
RECORDED ON
06/16/2015 2:53 PM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9
Vol.: 1Page(s): 153

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.06
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
38	PETER J. CAVAGNETTO & STEPHANIE M. VORWERK	T.L.E.	-----	-----	------	1369	-----

EXISTING R/W REFERENCE TABLE

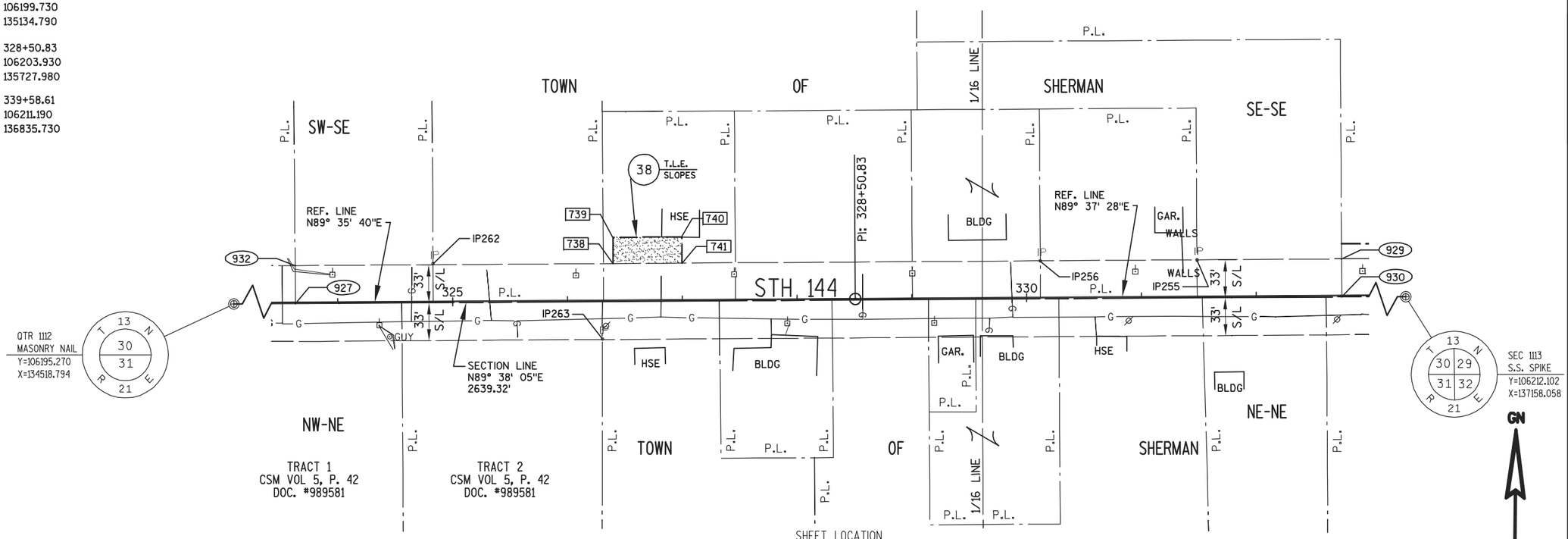
ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS

R/L ALIGNMENT

P.I. STA. 322+57.63
Y 106199.730
X 135134.790

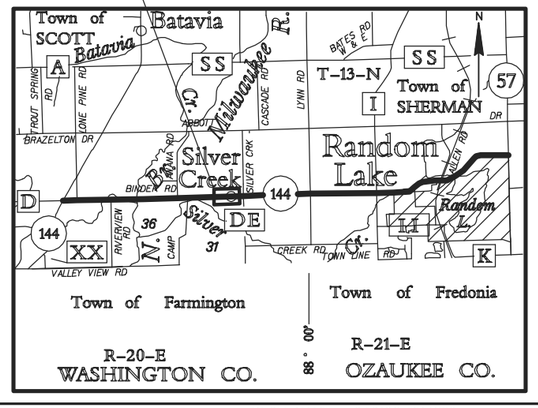
P.I. STA. 328+50.83
Y 106203.930
X 135727.980

P.I. STA. 339+58.61
Y 106211.190
X 136835.730



SHEET LOCATION
T 13 N, R 21 E

LOCATION MAP
SHEBOYGAN COUNTY



RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET		Y	X
738	326+40.00	32.20	L	106234.636	135516.924
739	326+40.00	55.00	L	106257.436	135516.762
740	327+00.00	55.00	L	106257.861	135576.761
741	327+00.00	32.16	L	106235.019	135576.922
927	323+62.99	0.60	R	106199.872	135240.151
929	332+74.49	31.98	L	106238.683	136151.422
930	332+74.49	1.02	R	106205.684	136151.632
932	323+63.01	32.39	L	106232.870	135239.939
1112	316+41.62	0.16	R	106195.270	134518.794
1113	342+80.94	0.07	R	106212.102	137158.058

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1112 - 927	N89°38'04"E	721.37'
927 - 932	N00°22'04"W	33.00'
932 - 929	N89°38'05"E	911.50'
929 - 930	S00°21'54"E	33.00'
930 - 927	S89°38'05"W	911.50'
930 - 1113	N89°38'05"E	1006.45'

FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
255	1" I.D. IRON PIPE	331+48.56	31.91' L
256	1" O.D. IRON PIPE	330+12.06	31.90' L
262	1" I.D. IRON PIPE	324+83.28	33.32' L
263	1" I.D. IRON PIPE	326+30.31	33.24' R

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van Erem 6-3-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040106_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/29/2015 4:43 PM
PLOT BY : LAHAYE, CHRIS
PLOT NAME : 040106_RP.DWG_

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.07

PART OF LOT 1, CSM VOL. 10, P. 320-321, LOCATED IN AND INCLUDING THE SW 1/4 OF THE SW 1/4 OF SECTION 29, PART OF LOT 1, CSM VOL. 10, P. 69, LOCATED IN AND INCLUDING THE SE 1/4 OF THE SE 1/4 OF SECTION 30, PART OF THE NE 1/4 OF THE NE 1/4 OF SECTION 31, AND PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 32, ALL IN TOWNSHIP 13 NORTH, RANGE 21 EAST, TOWN OF SHERMAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004539
SHEBOYGAN COUNTY WI
RECORDED ON
06/16/2015 3:03 PM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9
Vol.: 1Page(s): 154

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.07
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
53	THE SILVER CREEK VOLUNTEER FIRE DEPT., TOWN OF SHERMAN, INC.	T.L.E.	-----	-----	------	3444	-----
54	DANIEL KUEHMICHEL & REBECCA KUEHMICHEL	T.L.E.	-----	-----	------	2136	-----
57	WILLIAM GOEHRING & SHARON GOEHRING, L.C. VENDOR & DANIEL HARBISON & SARA HARBISON, L.C. VENDEE	T.L.E	-----	-----	------	632	-----
61	DANIEL R. MEYER & SANDRA J. MEYER	T.L.E.	-----	-----	------	198	-----
62	BLACK STALLION LLC	T.L.E.	-----	-----	------	1797	-----
63	TODD M. MCLAREN & JUDITH A. VERGATA	T.L.E.	-----	-----	------	1190	-----
64	SILVER CREEK REAL ESTATE LLC	FEE	2266	6962	9228		-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS

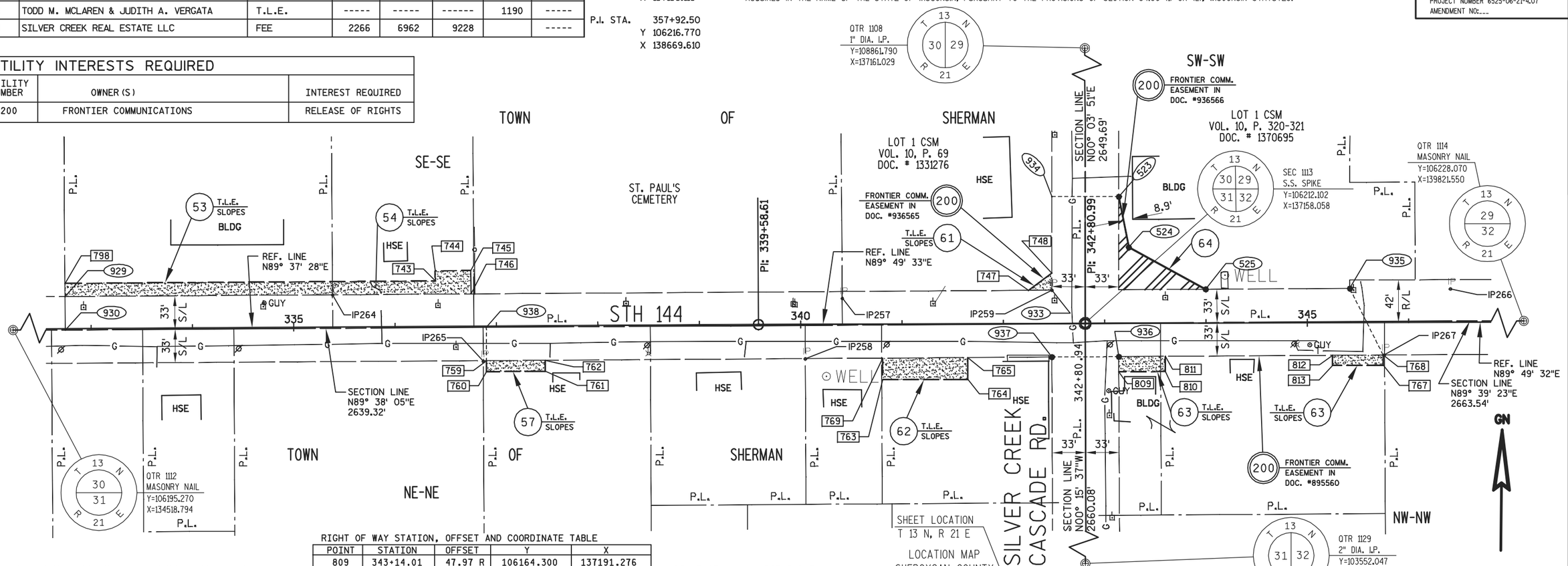
R/L ALIGNMENT

P.I. STA. 328+50.83
Y 106203.930
X 135727.980

P.I. STA. 339+58.61
Y 106211.190
X 136835.730

P.I. STA. 342+80.99
Y 106212.170
X 137158.110

P.I. STA. 357+92.50
Y 106216.770
X 138669.610



RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
523	343+14.46	125.00 L	106337.271	137191.198
524	343+24.25	75.00 L	106287.302	137201.142
525	344+00.00	33.28 L	106245.816	137277.019
743	336+40.00	45.00 L	106254.101	136516.834
744	336+40.00	55.00 L	106264.101	136516.769
745	336+75.00	55.00 L	106264.330	136551.768
746	336+75.00	31.91 L	106241.237	136551.920
747	342+25.00	32.75 L	106244.745	137102.022
748	342+48.19	50.00 L	106262.070	137125.160
759	336+90.00	34.10 R	106175.334	136567.352
760	336+90.00	45.00 R	106164.431	136567.423
761	337+48.00	45.00 R	106164.811	136625.422
762	337+48.00	34.10 R	106175.714	136625.350
763	340+81.08	55.00 R	106156.563	136958.365
764	341+65.00	55.00 R	106156.818	137042.289
765	341+65.00	33.46 R	106178.363	137042.223
767	345+75.00	42.20 R	106170.865	137452.248
768	345+75.00	32.20 R	106180.865	137452.218
769	340+81.04	33.74 R	106177.827	136958.267
798	332+74.50	45.00 L	106251.706	136151.339

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
809	343+14.01	47.97 R	106164.300	137191.276
810	343+60.00	47.84 R	106164.576	137237.266
811	343+60.00	32.84 R	106179.576	137237.221
812	345+25.00	32.35 R	106180.565	137402.218
813	345+24.98	42.35 R	106170.565	137402.225
929	332+74.49	31.98 L	106238.683	136151.422
930	332+74.49	1.02 R	106205.684	136151.632
933	342+48.07	32.82 L	106244.892	137125.095
934	342+48.46	125.27 L	106337.345	137125.198
935	345+42.12	33.70 L	106246.668	137419.140
936	343+13.99	32.97 R	106179.300	137191.207
937	342+47.99	33.18 R	106178.892	137125.209
938	336+90.01	1.10 R	106208.333	136567.141
1113	342+80.94	0.07 R	106212.102	137158.058

FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
257	1" I.D. IRON PIPE	340+41.47	25.35' L
258	1" O.D. IRON PIPE	340+04.67	34.15' R
259	1" I.D. IRON PIPE	342+48.27	32.74' L
264	1" O.D. IRON PIPE	335+38.58	31.90' L
265	1" I.D. IRON PIPE	336+86.82	34.84' R
266	1" I.D. IRON PIPE	346+41.42	32.91' L
267	1" I.D. IRON PIPE	345+75.89	32.19' R

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1112 - 930	N89°38'05"E	1632.87'
930 - 929	N00°21'54"W	33.00'
929 - 933	N89°38'05"E	973.69'
933 - 934	N00°03'51"E	92.45'
934 - 523	S89°56'09"E	66.00'
523 - 524	S11°15'18"E	50.95'
524 - 525	S61°19'55"E	86.48'
525 - 935	N89°39'23"E	142.12'
935 - 768	S26°41'15"E	73.65'
768 - 936	S89°39'23"W	261.02'
936 - 937	S89°38'44"W	66.00'
937 - 759	S89°38'05"W	557.87'
759 - 938	N00°21'55"W	33.00'
938 - 930	S89°38'05"W	415.52'

EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS
SILVER CREEK RD.	TOWN ROAD RECORDS

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.07 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/8/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van Erem 6-8-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040107_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 6/8/2015 1:31 PM PLOT BY : LAHAYE, CHRIS PLOT NAME : 040107_RP.DWG_

DETAIL SHEET 4.07

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.08

PART OF THE SE 1/4 OF THE SW 1/4 OF SECTION 29, AND PART OF LOT 1, CSM VOL. 19, P. 80, LOCATED IN AND INCLUDING THE NE 1/4 OF THE NW 1/4 OF SECTION 32, ALL IN TOWNSHIP 13 NORTH, RANGE 21 EAST, TOWN OF SHERMAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004540
SHEBOYGAN COUNTY WI
RECORDED ON
06/16/2015 3:09 PM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9
Vol.: 1Page(s): 155

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.08
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
66	DELMAR SCHROETER & NANCY SCHROETER, L.C. VENDOR & KENT A. SCHROETER, L.C. VENDEE	FEE	6056	10717	16773	-----	-----
68	PERRY E. BERNDT & CHERYL J. BERNDT	FEE	2518	9886	12404	-----	-----

UTILITY INTERESTS REQUIRED

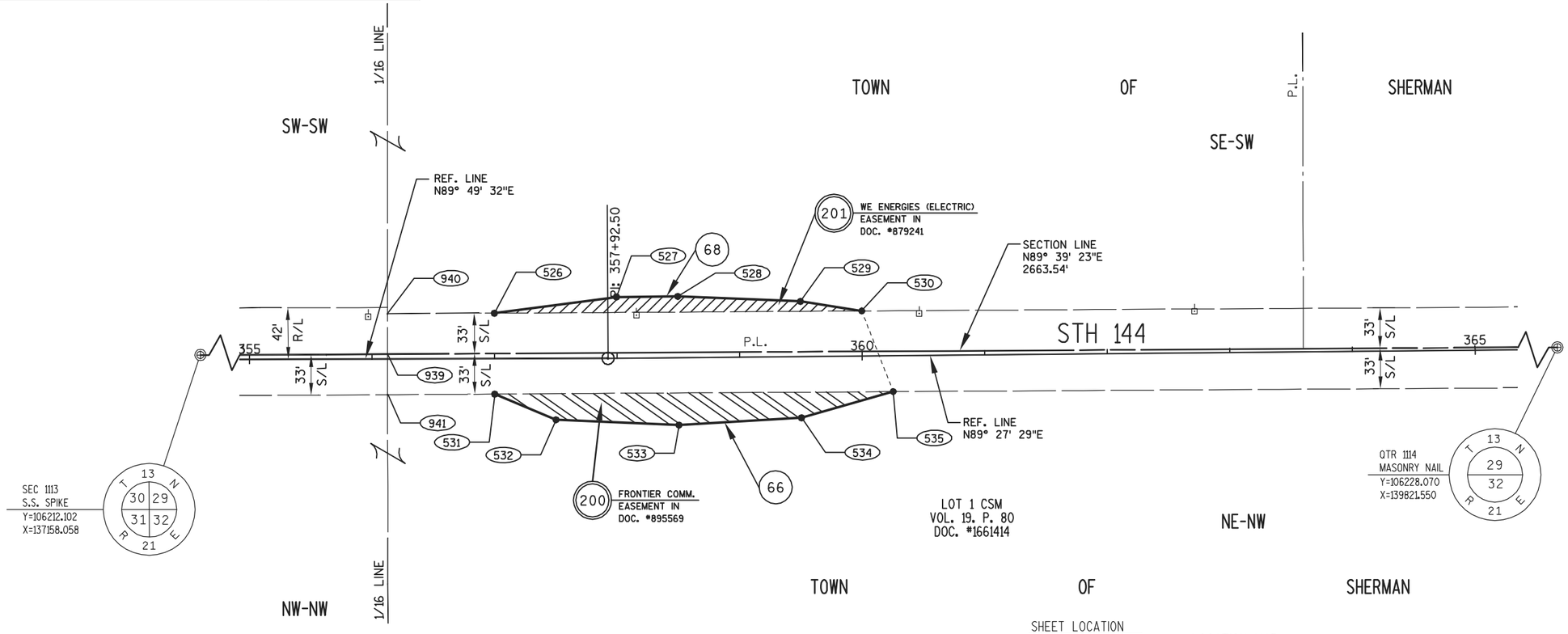
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

R/L ALIGNMENT

P.I. STA. 342+80.99
Y 106212.170
X 137158.110

P.I. STA. 357+92.50
Y 106216.770
X 138669.610

P.I. STA. 376+92.50
Y 106234.740
X 140569.530



RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
526	357+00.00	37.12 L	106253.609	138577.001
527	358+00.00	50.00 L	106266.839	138676.641
528	358+50.00	50.00 L	106267.312	138726.639
529	359+50.00	45.00 L	106263.258	138826.681
530	360+00.00	36.68 L	106255.406	138876.758
531	357+00.00	28.88 R	106187.609	138577.202
532	357+50.00	50.00 R	106166.641	138627.266
533	358+50.00	55.00 R	106162.316	138727.632
534	359+50.00	50.00 R	106168.262	138827.580
535	360+25.00	29.33 R	106189.645	138902.381
939	356+12.70	3.86 L	106220.086	138489.804
940	356+12.79	36.86 L	106253.087	138489.788
941	356+12.68	29.14 R	106187.086	138489.886
1113	342+80.94	0.07 R	106212.102	137158.058
1114	369+44.49	0.41 L	106228.070	139821.550

RIGHT OF WAY COURSE TABLE

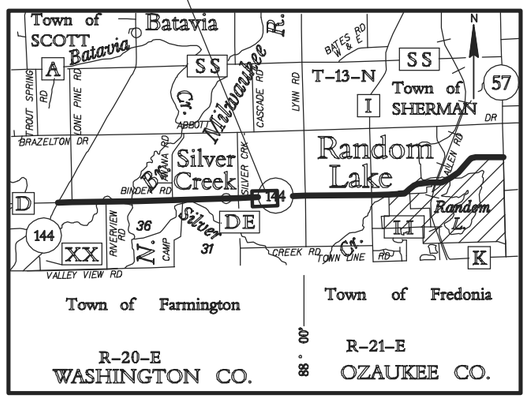
FROM - TO	BEARING	DISTANCE
1113 - 939	N89°39'23"E	1331.77'
939 - 940	N00°01'41"W	33.00'
940 - 526	N89°39'23"E	87.22'
526 - 527	N82°26'13"E	100.51'
527 - 528	N89°27'29"E	50.00'
528 - 529	S87°40'46"E	100.13'
529 - 530	S81°05'22"E	50.69'
530 - 535	S21°17'16"E	70.58'
535 - 534	S74°02'47"W	77.80'
534 - 533	S86°35'44"W	100.13'
533 - 532	N87°31'58"W	100.46'
532 - 531	N67°16'28"W	54.28'
531 - 941	S89°39'23"W	87.32'
941 - 939	N00°08'32"W	33.00'

EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS

SHEET LOCATION
T 13 N, R 21 E

LOCATION MAP
SHEBOYGAN COUNTY



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.08 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van Erem 6-3-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040108_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/29/2015 4:46 PM
PLOT BY : LAHAYE, CHRIS
PLOT NAME : 040108_RP.DWG_

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
69	OSKEY REVOCABLE TRUST	FEE	2865	8680	11545	-----	-----
71	DAVID O. WILKENS & KAREN L. WILKENS	FEE	2610	5667	8277	-----	-----
73	ROBERT MARQUARDT & LORNA MARQUARDT LIVING TRUST	FEE	3474	7377	10851	-----	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.09

PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 29, AND PART OF THE NW 1/4 OF THE NE 1/4 AND THE NE 1/4 OF THE NE 1/4 OF SECTION 32, ALL IN TOWNSHIP 13 NORTH, RANGE 21 EAST, TOWN OF SHERMAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

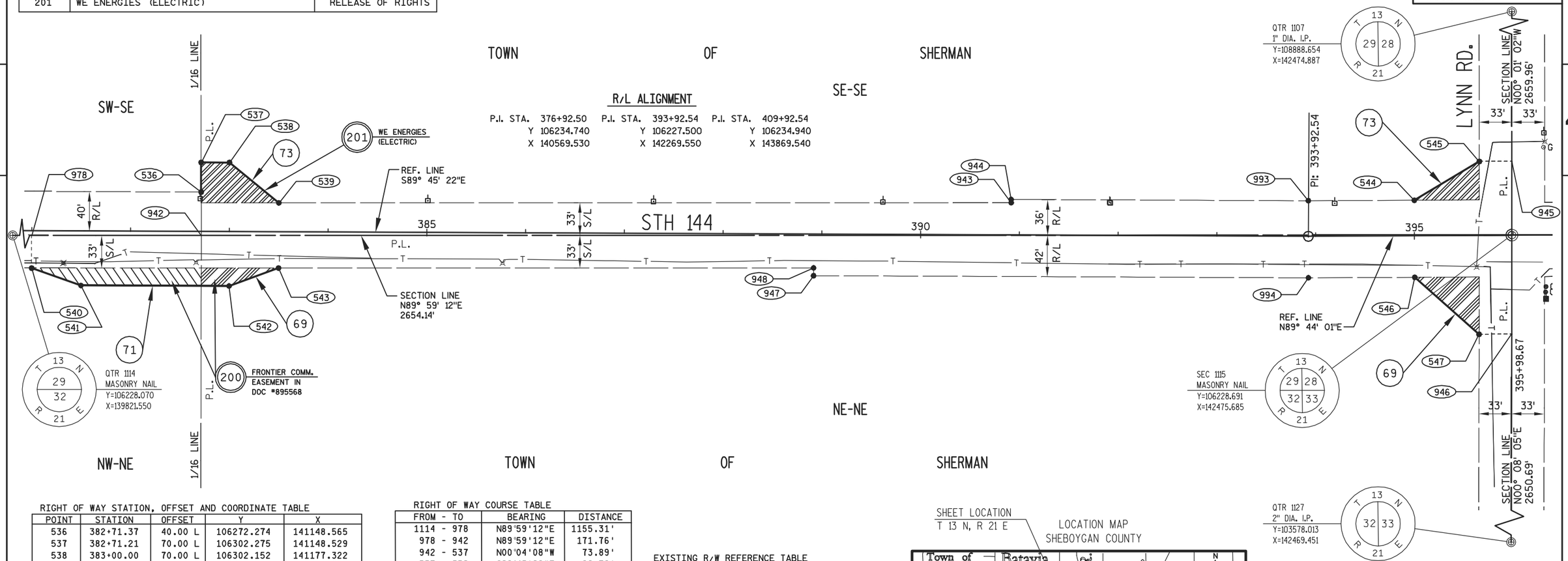
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004541
SHEBOYGAN COUNTY WI
RECORDED ON
06/16/2015 3:13 PM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 156

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.09
AMENDMENT NO:___



RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

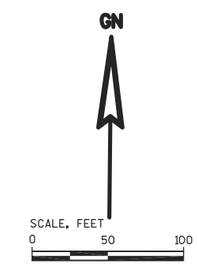
POINT	STATION	OFFSET	Y	X
536	382+71.37	40.00 L	106272.274	141148.565
537	382+71.21	70.00 L	106302.275	141148.529
538	383+00.00	70.00 L	106302.152	141177.322
539	383+50.00	29.46 L	106261.399	141227.149
540	381+00.00	37.67 R	106195.340	140976.865
541	381+50.00	55.00 R	106177.792	141026.791
542	383+00.00	55.00 R	106177.153	141176.789
543	383+50.00	36.54 R	106195.399	141226.867
544	395+00.00	36.00 L	106263.999	142376.845
545	395+66.00	75.00 L	106303.306	142442.663
546	395+00.00	42.00 R	106186.000	142377.208
547	395+64.97	100.00 R	106128.303	142442.449
942	382+71.61	3.89 R	106228.381	141148.618
943	390+91.45	32.79 L	106261.572	141968.610
944	390+91.45	36.00 L	106264.782	141968.623
945	395+99.00	75.00 L	106303.459	142475.663
946	395+97.97	100.00 R	106128.456	142475.449
947	388+91.75	42.00 R	106187.633	141768.592
948	388+91.75	34.11 R	106195.526	141768.625
978	380+99.85	4.67 R	106228.340	140976.857
993	393+92.38	36.00 L	106263.500	142269.543
994	393+92.69B	42.00 R	106185.500	142269.558
1115	395+98.67	0.23 L	106228.691	142475.685

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1114 - 978	N89°59'12"E	1155.31'
978 - 942	N89°59'12"E	171.76'
942 - 537	N00°04'08"W	73.89'
537 - 538	S89°45'22"E	28.79'
538 - 539	S50°43'13"E	64.37'
539 - 943	N89°59'12"E	741.46'
943 - 944	N00°14'38"E	3.21'
944 - 993	S89°45'22"E	300.92'
993 - 544	N89°44'01"E	107.30'
544 - 545	N59°09'15"E	76.66'
545 - 945	N89°44'01"E	33.00'
945 - 1115	S00°01'02"E	74.77'
1115 - 946	S00°08'05"W	100.24'
946 - 547	S89°44'01"W	33.00'
547 - 546	N48°30'41"W	87.09'
546 - 994	S89°44'01"W	107.65'
994 - 947	N89°45'22"W	500.97'
947 - 948	N00°14'38"E	7.89'
948 - 543	S89°59'12"W	541.76'
543 - 542	S69°58'53"W	53.30'
542 - 541	N89°45'22"W	150.00'
541 - 540	N70°38'03"W	52.92'
540 - 978	N00°00'48"W	33.00'

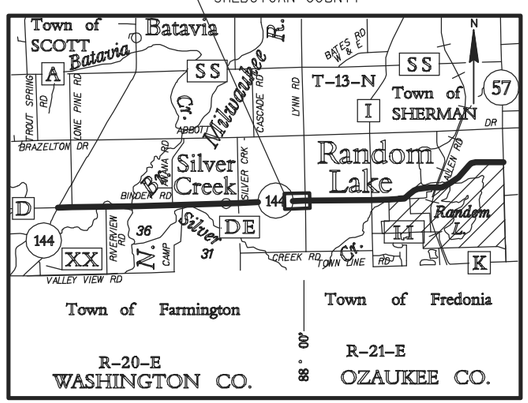
EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS
LYNN RD.	TOWN ROAD RECORDS



SHEET LOCATION
T 13 N, R 21 E

LOCATION MAP
SHEBOYGAN COUNTY



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.09 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM 6-3-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040109_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/29/2015 4:48 PM
PLOT BY : LAHAYE, CHRIS
PLOT NAME : 040109_RP.DWG

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.10

PART OF THE SW 1/4 OF THE SW 1/4 OF SECTION 28, AND PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 33, ALL IN TOWNSHIP 13 NORTH, RANGE 21 EAST, TOWN OF SHERMAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004542
SHEBOYGAN COUNTY WI
RECORDED ON
06/16/2015 3:16 PM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 1
Vol.: 1Page(s): 157

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.10
AMENDMENT NO:___

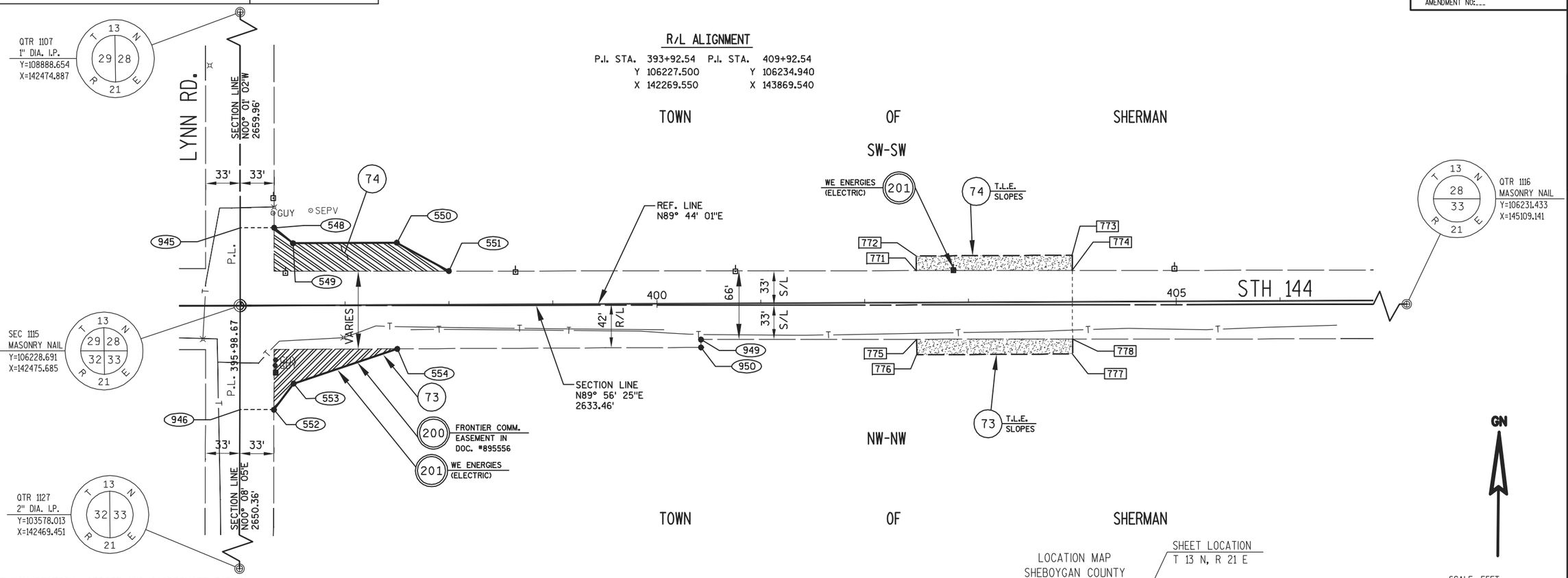
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
73	ROBERT MARQUARDT & LORNA MARQUARDT LIVING TRUST	FEE & T.L.E.	2504	8277	10781	2192	-----
74	SAMUEL J. ARENDT & ELIZABETH J. ARENDT	FEE & T.L.E.	4020	8013	12033	2158	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS



RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
548	396+32.00	75.00 L	106303.613	142508.663
549	396+50.00	60.00 L	106288.697	142526.732
550	397+50.00	60.00 L	106289.162	142626.731
551	398+00.00	32.51 L	106261.901	142676.858
552	396+30.97	100.00 R	106128.610	142508.450
553	396+50.00	75.00 R	106153.698	142527.360
554	397+50.00	42.00 R	106187.163	142627.205
771	402+50.00	30.88 L	106262.369	143126.861
772	402+50.00	45.00 L	106276.487	143126.795
773	404+00.00	45.00 L	106277.184	143276.793
774	404+00.00	30.34 L	106262.525	143276.862
775	402+50.00	35.12 R	106196.369	143127.168
776	402+50.00	50.00 R	106181.488	143127.237
777	404+00.00	50.00 R	106182.185	143277.235
778	404+00.00	35.66 R	106196.526	143277.169
945	395+99.00	75.00 L	106303.459	142475.663
946	395+97.97	100.00 R	106128.456	142475.449
949	400+42.31	34.37 R	106196.153	142919.475
950	400+42.31	42.00 R	106188.522	142919.511
1115	395+98.67	0.23 L	106228.691	142475.685

RIGHT OF WAY COURSE TABLE

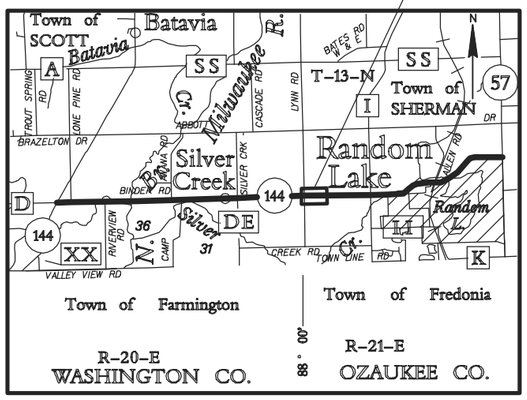
FROM - TO	BEARING	DISTANCE
1115 - 945	N00°01'02"W	74.77'
945 - 548	N89°44'01"E	33.00'
548 - 549	S50°27'38"E	23.43'
549 - 550	N89°44'01"E	100.00'
550 - 551	S61°27'40"E	57.06'
551 - 774	N89°56'25"E	600.00'
774 - 778	S00°15'59"E	66.00'
778 - 949	S89°56'25"W	357.69'
949 - 950	S00°15'59"E	7.63'
950 - 554	S89°44'01"W	292.31'
554 - 553	S71°28'14"W	105.30'
553 - 552	S37°00'24"W	31.42'
552 - 946	S89°44'01"W	33.00'
946 - 1115	N00°08'05"E	100.24'

EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS
LYNN RD.	TOWN ROAD RECORDS

LOCATION MAP
SHEBOYGAN COUNTY

SHEET LOCATION
T 13 N, R 21 E



SCALE, FEET
0 50 100

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.10 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van Erem 6-3-2015
PRINTED NAME SIGNATURE DATE

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
77	MILLER REVOCABLE TRUST	FEE	2050	7217	9267	-----	-----
78	WILMER L. MUELLER & JUDITH A. MUELLER 1993 REVOCABLE TRUST	FEE	3157	6496	9653	-----	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.11

PART OF THE SW 1/4 OF THE SE 1/4 OF SECTION 28, AND PART OF THE NW 1/4 OF THE NE 1/4 OF SECTION 33, ALL IN TOWNSHIP 13 NORTH, RANGE 21 EAST, TOWN OF SHERMAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

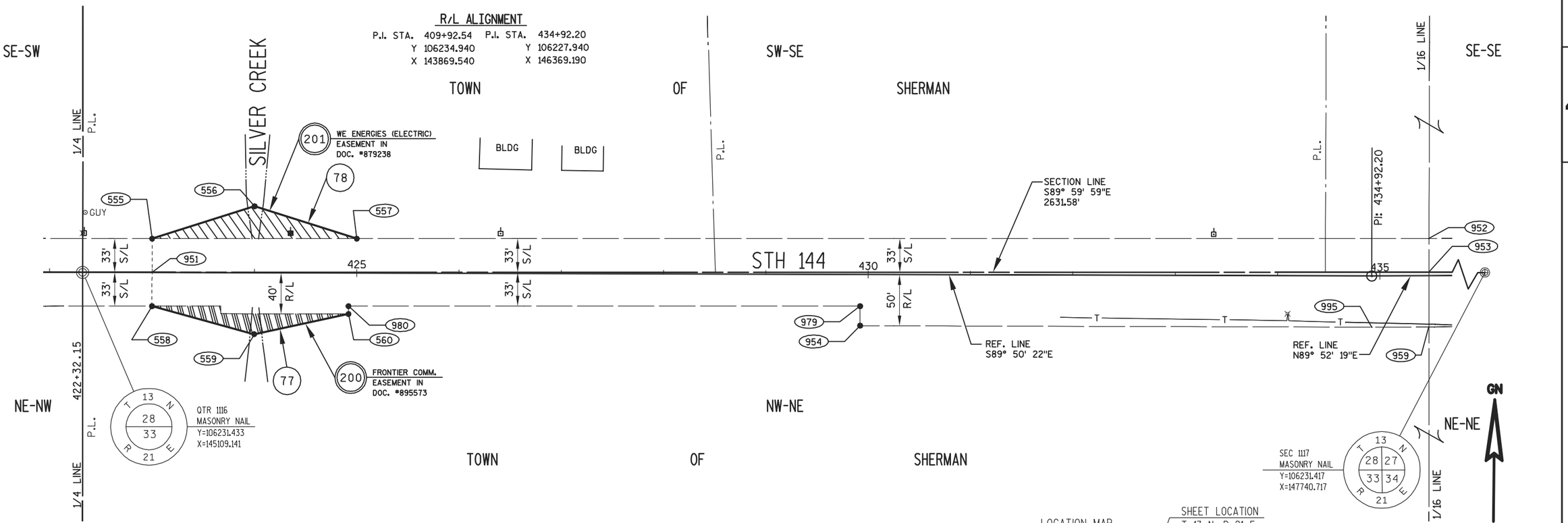
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004993
SHEBOYGAN COUNTY WI
RECORDED ON
06/24/2015 10:25 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 158

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.11
AMENDMENT NO:___



SCALE, FEET
0 50 100

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
555	423+00.00	33.15 L	106264.433	145177.084
556	424+00.00	65.00 L	106295.998	145277.173
557	425+00.00	33.71 L	106264.431	145377.085
558	423+00.00	32.85 R	106198.433	145176.899
559	424+00.00	60.00 R	106170.999	145276.823
560	424+92.15	40.00 R	106190.741	145369.028
951	423+00.00	0.15 L	106231.433	145176.992
952	435+48.12	36.36 L	106264.425	146425.023
953	435+47.95	3.36 L	106231.425	146424.929
954	429+92.15	50.00 R	106179.341	145868.998
959	435+47.89	50.00 R	106178.065	146424.987
979	429+92.15	30.91 R	106198.428	145869.052
980	424+92.15	32.31 R	106198.431	145369.050
995	N/A	N/A	106177.940	146369.176
1116	422+32.15	0.04 R	106231.433	145109.141
1117	448+63.73	0.41 L	106231.417	147740.717

RIGHT OF WAY COURSE TABLE

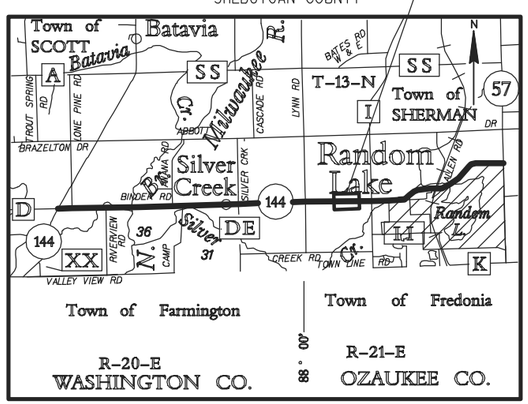
FROM - TO	BEARING	DISTANCE
1116 - 951	S89°59'59"E	67.85'
951 - 555	N00°09'38"E	33.00'
555 - 556	N72°29'45"E	104.95'
556 - 557	S72°27'58"E	104.78'
557 - 952	S89°59'59"E	1047.94'
952 - 953	S00°09'47"W	33.00'
953 - 959	S00°03'43"E	53.36'
959 - 995	S89°52'19"W	55.81'
995 - 954	N89°50'22"W	500.18'
954 - 979	N00°09'38"E	19.09'
979 - 980	N89°59'59"W	500.00'
980 - 560	S00°09'38"W	7.69'
560 - 559	S77°54'54"W	94.30'
559 - 558	N74°38'52"W	103.62'
558 - 951	N00°09'38"E	33.00'
953 - 1117	S89°59'59"E	1315.79'

EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS

LOCATION MAP
SHEBOYGAN COUNTY

SHEET LOCATION
T 13 N, R 21 E



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.11 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM 6-18-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040111_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/29/2015 4:51 PM PLOT BY : LAHAYE, CHRIS PLOT NAME : 040111_RP.DWG

DETAIL SHEET 4.11

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.12

PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 28, AND PART OF THE NE 1/4 OF THE NE 1/4 OF SECTION 33, ALL IN TOWNSHIP 13 NORTH, RANGE 21 EAST, TOWN OF SHERMAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004994
SHEBOYGAN COUNTY WI
RECORDED ON
06/24/2015 10:31 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9
Vol.: 1Page(s): 159

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.12
AMENDMENT NO:___

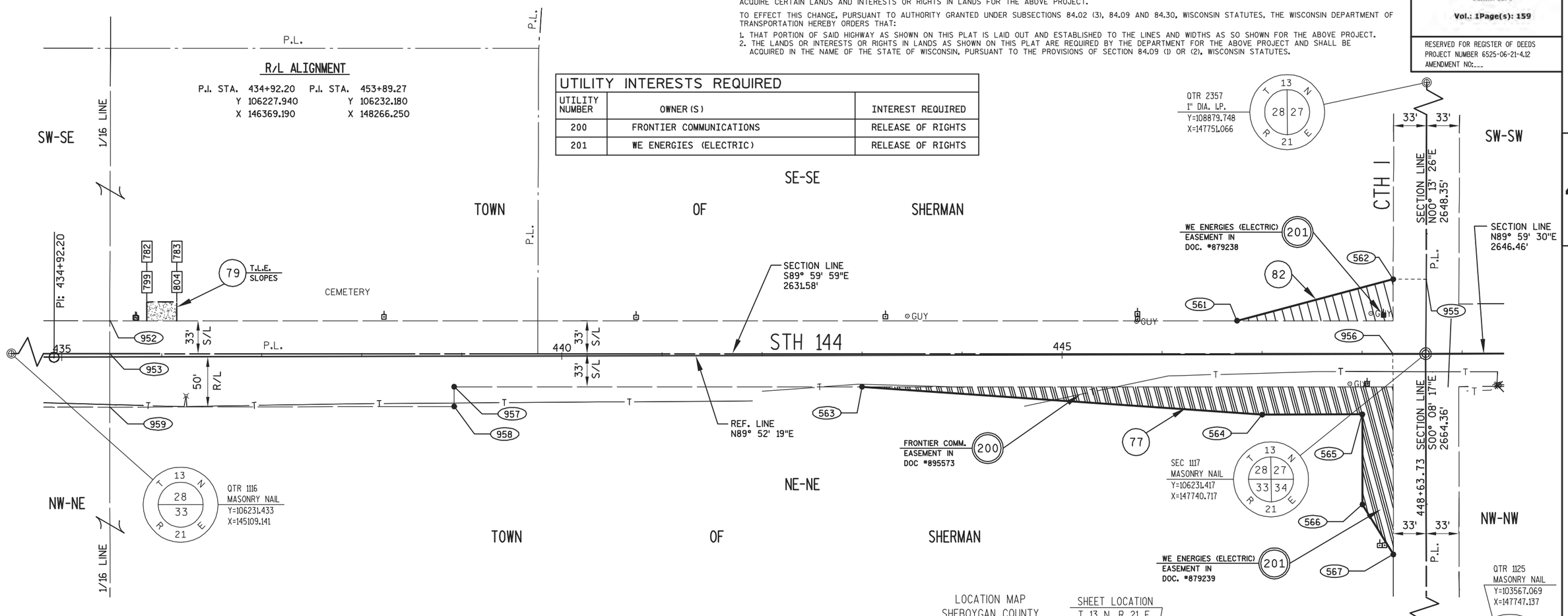
SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
77	MILLER REVOCABLE TRUST	FEE	12705	17514	30219	-----	-----
79	REMBERT G.WEAKLAND, O.S.B.	T.L.E.	-----	-----	------	563	-----
82	ROBERT ARNDT,ILMA ARNDT, LIFE ESTATE	FEE	3237	7594	10831	-----	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS



RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
561	446+75.00	33.84 L	106264.418	147551.908
562	448+31.19	75.00 L	106305.933	147708.008
563	443+00.00	31.33 R	106198.420	147177.055
564	447+00.00	60.00 R	106170.640	147577.118
565	448+00.00	60.00 R	106170.863	147677.117
566	448+00.00	150.00 R	106080.863	147677.319
567	448+30.77	200.00 R	106030.932	147708.200
782	435+85.00	55.00 L	106283.147	146461.863
783	436+15.00	55.00 L	106283.214	146491.863
799	435+85.00	36.27 L	106264.414	146461.905
804	436+15.00	36.21 L	106264.425	146491.905
952	435+48.12	36.36 L	106264.425	146425.023
953	435+47.95	3.36 L	106231.425	146424.929
955	448+64.19	74.80 L	106305.804	147741.008
956	448+30.73	0.49 L	106231.417	147707.717
957	438+92.15	30.41 R	106198.423	146769.207
958	438+92.15	50.00 R	106178.834	146769.251
959	435+47.89	50.00 R	106178.065	146424.987
1117	448+63.73	0.41 L	106231.417	147740.717

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1116 - 953	S89°59'59"E	1315.79'
953 - 952	N00°09'47"E	33.00'
952 - 561	S89°59'59"E	1126.89'
561 - 562	N75°06'25"E	161.53'
562 - 955	S89°46'34"E	33.00'
955 - 1117	S00°13'26"W	74.39'
1117 - 956	N89°59'59"W	33.00'
956 - 567	S00°08'17"E	200.49'
567 - 566	N31°44'10"W	58.71'
566 - 565	N00°07'41"W	90.00'
565 - 564	S89°52'19"W	100.00'
564 - 563	N86°01'40"W	401.03'
563 - 957	N89°59'59"W	407.85'
957 - 958	S00°07'41"E	19.59'
958 - 959	S89°52'19"W	344.27'
959 - 953	N00°03'43"W	53.36'

EXISTING R/W REFERENCE TABLE

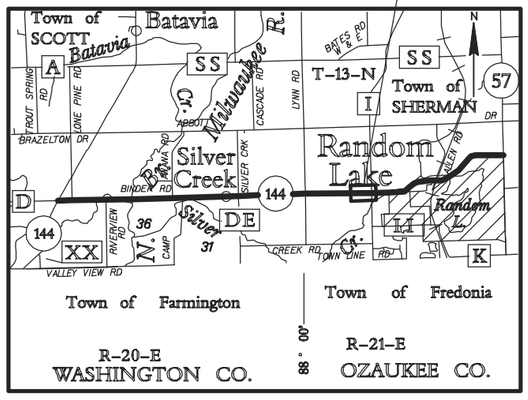
ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS
CTH I	TOWN ROAD RECORDS
CTH I	VOL. 1018, P. 985-986

GN

SCALE, FEET
0 50 100

LOCATION MAP
SHEBOYGAN COUNTY

SHEET LOCATION
T 13 N, R 21 E



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.12 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van E... 6-18-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040112_RP.DWG
APPRAISAL PLAT DATE : _____

PLOT DATE : 5/29/2015 4:52 PM PLOT BY : LAHAYE, CHRIS PLOT NAME : 040112_RP.DWG_

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.13

PART OF THE SW 1/4 OF THE SW 1/4 OF SECTION 27, AND PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 34, ALL IN TOWNSHIP 13 NORTH, RANGE 21 EAST, TOWN OF SHERMAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
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2004995
SHEBOYGAN COUNTY WI
RECORDED ON
06/24/2015 10:38 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 160

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.13
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
84	LAKESIDE PACKING CO.	FEE	5675	18247	23922	-----	-----

UTILITY INTERESTS REQUIRED

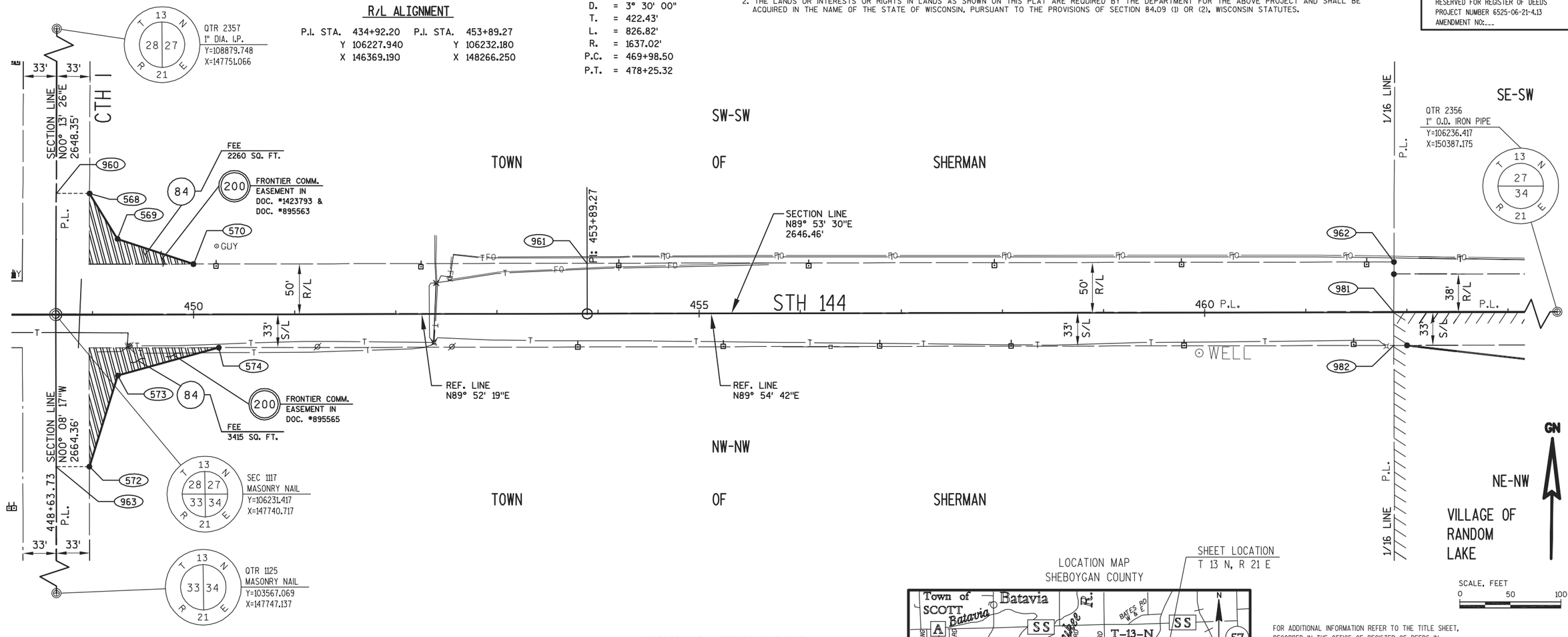
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS

R/L CURVE DATA

P.I. = 474+20.93
Y 106235.311
X 150297.904
Δ. = 28° 56' 19"
D. = 3° 30' 00"
T. = 422.43'
L. = 826.82'
R. = 1637.02'
P.C. = 469+98.50
P.T. = 478+25.32

R/L ALIGNMENT

P.I. STA. 434+92.20 Y 106227.940 X 146369.190
P.I. STA. 453+89.27 Y 106232.180 X 148266.250



RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
568	448+97.47	120.00 L	106351.081	147774.185
569	449+25.00	75.00 L	106306.142	147801.815
570	450+00.00	50.00 L	106281.310	147876.871
572	448+96.76	150.00 R	106081.080	147774.079
573	449+25.00	60.00 R	106171.143	147802.117
574	450+25.00	32.64 R	106198.722	147902.056
960	448+64.47	120.20 L	106351.210	147741.185
961	453+89.27	50.00 L	106282.180	148266.138
962	461+87.25	50.00 L	106283.410	149064.155
963	448+63.76	150.01 R	106081.000	147741.079
981	461+86.97	0.51 L	106233.917	149063.946
982	461+87.03	32.49 R	106200.917	149064.060
1117	448+63.73	0.41 L	106231.417	147740.717
2356	474+94.72	77.19 R	106236.417	150387.175

RIGHT OF WAY COURSE TABLE

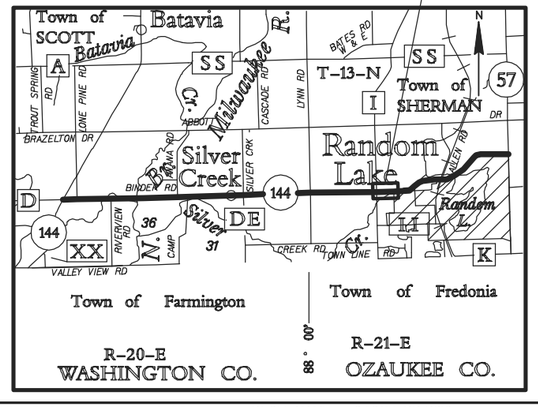
FROM - TO	BEARING	DISTANCE
1117 - 960	N00°13'26"E	119.79'
960 - 568	S89°46'34"E	33.00'
568 - 569	S31°35'07"E	52.75'
569 - 570	S71°41'35"E	79.06'
570 - 961	N89°52'19"E	389.27'
961 - 962	N89°54'42"E	798.02'
962 - 981	S00°14'32"W	49.49'
981 - 982	S00°11'51"E	33.00'
982 - 574	S89°53'30"W	1162.01'
574 - 573	S74°34'21"W	103.67'
573 - 572	S17°17'31"W	94.33'
572 - 963	S89°51'43"W	33.00'
963 - 1117	N00°08'17"W	150.42'
981 - 2356	N89°53'30"E	1323.23'

EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS
CTH I	TOWN ROAD RECORDS

LOCATION MAP
SHEBOYGAN COUNTY

SHEET LOCATION
T 13 N, R 21 E



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.13 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM 6-18-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040113_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/29/2015 4:54 PM PLOT BY : LAHAYE, CHRIS PLOT NAME : 040113_RP.DWG_

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.14

PART OF THE SE 1/4 OF THE SW 1/4 OF SECTION 27, TOWN OF SHERMAN, AND PART OF THE NE 1/4 OF THE NW 1/4 OF SECTION 34, VILLAGE OF RANDOM LAKE, ALL IN TOWNSHIP 13 NORTH, RANGE 21 EAST, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004996
SHEBOYGAN COUNTY WI
RECORDED ON
06/24/2015 10:50 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9
Vol.: 1Page(s): 161

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.14
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
87	RANDOM LAKE COMMUNITY SCHOOLS JOINT DISTRICT NO. 3	FEE	8800	20267	29067	-----	-----
88	KENNETH R. ZIMMERMANN	T.L.E.	-----	-----	------	17699	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS
205	LAKESIDE PACKING CO. (WATER MAIN)	RELEASE OF RIGHTS

R/L ALIGNMENT

P.I. STA. 453+89.27
Y 106232.180
X 148266.250

R/L CURVE DATA

P.I. = 474+20.93
Y 106235.311
X 150297.904
Δ. = 28° 56' 19"
D. = 3° 30' 00"
T. = 422.43'
L. = 826.82'
R. = 1637.02'
P.C. = 469+98.50
P.T. = 478+25.32

SW-SW

SE-SW

SW-SE

NW-NW

NE-NW

NW-NE

TOWN OF SHERMAN

VILLAGE OF RANDOM LAKE

1/16 LINE

P.L.

T.L.E. DRIVEWAY RECONSTRUCTION 88

FRONTIER COMM. EASEMENT IN DOC. # 1426785 200

WE ENERGIES (ELECTRIC) EASEMENT IN DOC. #1145676 201

LAKESIDE PACKING CO. EASEMENT IN DOC. #945345 205

FRONTIER COMM. EASEMENT IN DOC. #1043606 200

WE ENERGIES (ELECTRIC) EASEMENT IN DOC. #907027 & DOC. #1060893 201

SILVER CREEK

STH 144

SECTION LINE N89° 53' 30"E 2646.46'

REF. LINE N89° 54' 42"E

SEC 1117 MASONRY NAIL Y=106231.417 X=147740.717

CTR 1106 CHIS. "X" ON ROCK Y=108882.879 X=150399.215

QTR 2356 1" O.D. IRON PIPE Y=106236.417 X=150387.175

1/4 LINE N00° 15' 38"E 2646.49'

1/4 LINE N00° 15' 26"W 2659.53'

CTR 1124 1" I.D. I.P. Y=103576.918 X=150399.110

TOWN OF SHERMAN

VILLAGE OF RANDOM LAKE

RANDOM LAKE RD.

WOLF RD.

PI: 474+20.93

RC: 469+98.50

RIGHT OF WAY CURVE TABLE

FROM - TO	RADIUS	DELTA	LENGTH	CHORD	CHORD BEARING
984 - 986	1587.02'	18°57'02"	524.91'	522.52'	N80° 24' 54"E

EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	PROJ. I.D. 4525-1-21
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS

FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
138	1" O.D. IRON PIPE	474+71.38	104.12' R
139	1" O.D. IRON PIPE	475+30.07	123.92' R
156	1" O.D. IRON PIPE	465+94.77	49.27' R
157	1" O.D. IRON PIPE	465+94.52	32.54' R

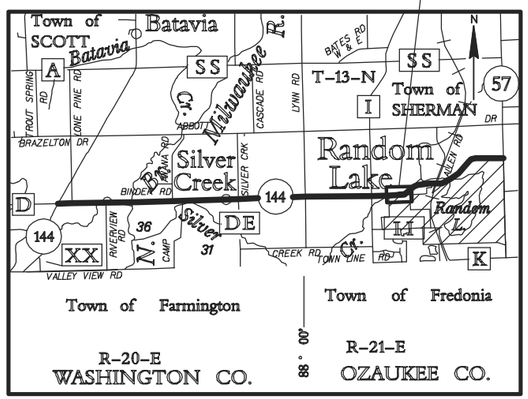
RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET		Y	X
575	462+00.00	32.49	R	106200.942	149077.031
576	464+36.99	60.00	R	106173.795	149314.062
577	465+86.99	60.00	R	106174.026	149464.062
578	467+00.00	50.00	R	106184.200	149577.057
579	468+50.00	50.00	R	106184.431	149727.057
580	469+00.00	32.24	R	106202.264	149777.030
784	464+00.00	38.00	L	106271.738	149276.922
785	464+19.94	59.90	L	106293.663	149296.831
800	464+00.00	125.00	L	106358.738	149276.788
801	465+00.00	200.00	L	106433.892	149376.672
802	465+50.00	200.00	L	106433.969	149426.672
803	465+50.00	59.94	L	106293.912	149426.888
962	461+87.25	50.00	L	106283.410	149064.155
964	461+87.18	38.00	L	106271.410	149064.105
965	464+19.95	38.00	L	106271.768	149296.873
966	466+85.94	59.99	L	106294.172	149562.831
981	461+86.97	0.51	L	106233.917	149063.946
982	461+87.03	32.49	R	106200.917	149064.060
983	466+85.95	49.99	L	106284.172	149562.850
984	469+95.66	50.11	L	106284.765	149872.565
985	469+95.07	1637.13	L	107871.784	149869.528
986	475+37.25	51.21	L	106371.770	150387.791
987	474+71.37	104.18	R	106203.387	150371.522
1117	448+63.73	0.41	L	106231.417	147740.717
2356	474+94.72	77.19	R	106236.417	150387.175

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1117 - 981	N89°53'30"E	1323.23'
981 - 964	N00°14'32"E	37.49'
964 - 965	N89°54'42"E	232.77'
965 - 785	N00°06'35"W	21.90'
785 - 966	N89°53'25"E	266.00'
966 - 983	S00°06'35"E	10.00'
983 - 984	N89°53'25"E	309.72'
984 - 986	ON CURVE	
986 - 2356	S00°15'38"W	135.35'
2356 - 987	S25°21'23"W	36.55'
987 - 580	S89°53'30"W	594.49'
580 - 579	S70°21'39"W	53.06'
579 - 578	S89°54'42"W	150.00'
578 - 577	S84°51'18"W	113.45'
577 - 576	S89°54'42"W	150.00'
576 - 575	N83°27'59"W	238.58'
575 - 982	S89°53'30"W	12.97'
982 - 981	N00°11'51"W	33.00'

LOCATION MAP
SHEBOYGAN COUNTY



SHEET LOCATION
T 13 N, R 21 E

SCALE, FEET
0 50 100

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.14 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van Erem 6-18-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040114_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/29/2015 4:56 PM PLOT BY : LAHAYE, CHRIS PLOT NAME : 040114_RP.DWG_

DETAIL SHEET 4.14

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.15

PART OF GOVERNMENT LOT 1, TOWN OF SHERMAN, AND PART OF GOVERNMENT LOT 1, VILLAGE OF RANDOM LAKE, ALL IN SECTION 26, TOWNSHIP 13 NORTH, RANGE 21 EAST, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004997
SHEBOYGAN COUNTY WI
RECORDED ON
06/24/2015 10:54 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 162

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.15
AMENDMENT NO:___

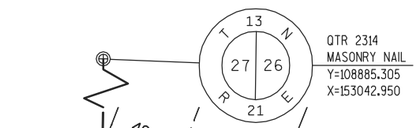
SCHEDULE OF LANDS & INTERESTS REQUIRED

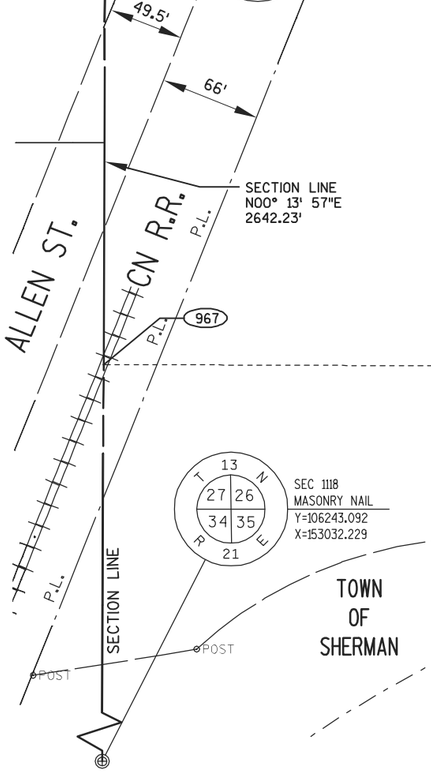
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
91	ROBERT J. BERGER	FEE	402	1221	1623	-----	-----
93	IRENE J. RAMIREZ & DAWN M. KOLLER	T.L.E.	-----	-----	------	368	-----
94	LAWRENCE R. STERN & DAWN C. STERN	T.L.E.	-----	-----	------	559	-----

EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	PROJ. I.D. 4525-1-21
STH 144	STATE AID PROJ. 2100
STH 144	PROJ. I.D. S 0521 (I)
STH 144	TOWN ROAD RECORDS





TOWN OF SHERMAN

R/L CURVE DATA

P.I.	=	506+23.25
	Y	107113.59
	X	153332.10
Δ.	=	22° 27' 33"
D.	=	2° 15' 00"
T.	=	505.58'
L.	=	998.18'
R.		2546.48'
P.C.	=	501+17.67
P.T.	=	511+15.85

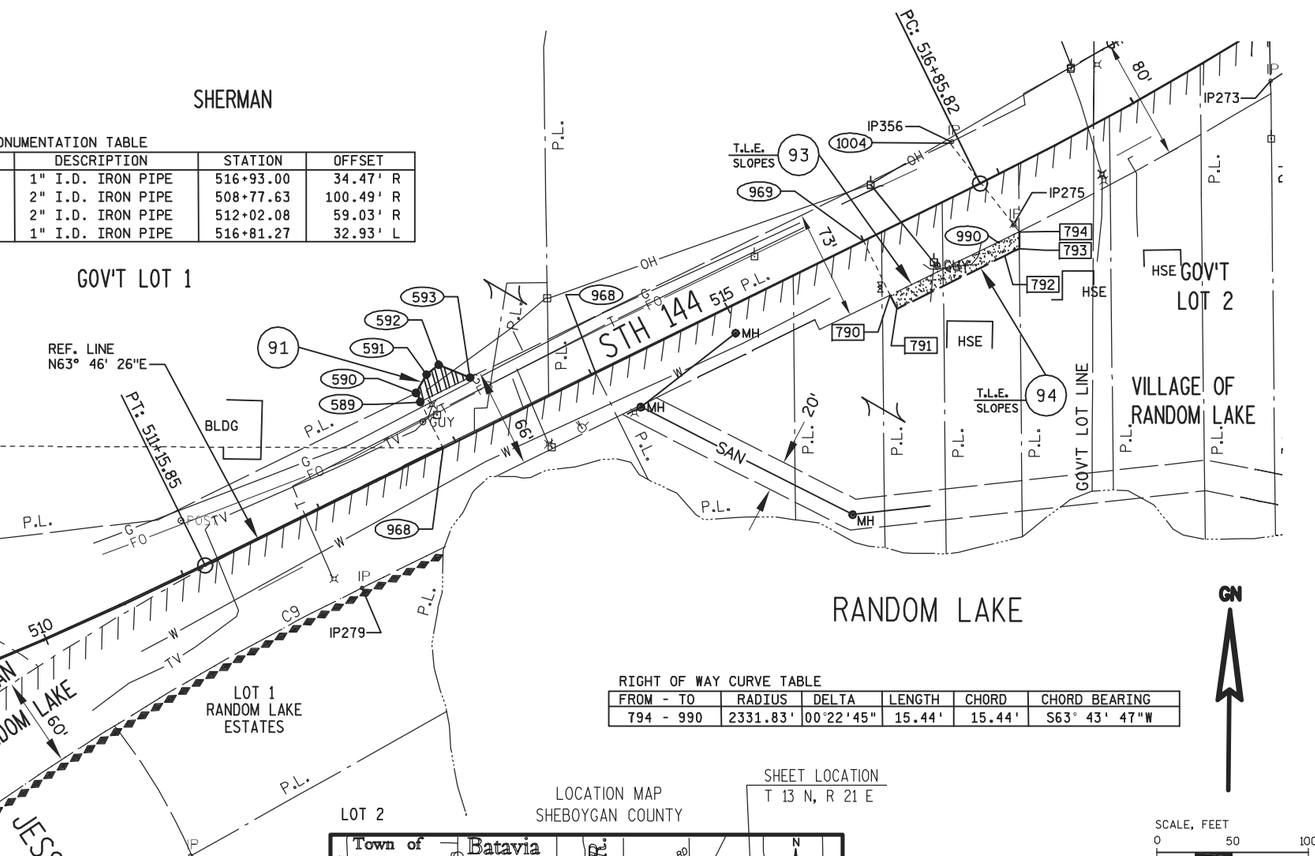
TOWN OF SHERMAN

R/L CURVE DATA

P.I.	=	520+78.57
	Y	107762.46
	X	154649.25
Δ.	=	19° 26' 55"
D.	=	2° 30' 00"
T.	=	392.75'
L.	=	777.94'
R.		2291.83'
P.C.	=	516+85.82
P.T.	=	524+63.76

FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
275	1" I.D. IRON PIPE	516+93.00	34.47' R
277	2" I.D. IRON PIPE	508+77.63	100.49' R
279	2" I.D. IRON PIPE	512+02.08	59.03' R
356	1" I.D. IRON PIPE	516+81.27	32.93' L



RIGHT OF WAY CURVE TABLE

FROM - TO	RADIUS	DELTA	LENGTH	CHORD	CHORD BEARING
794 - 990	2331.83'	00°22'45"	15.44'	15.44'	S63° 43' 47"W

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

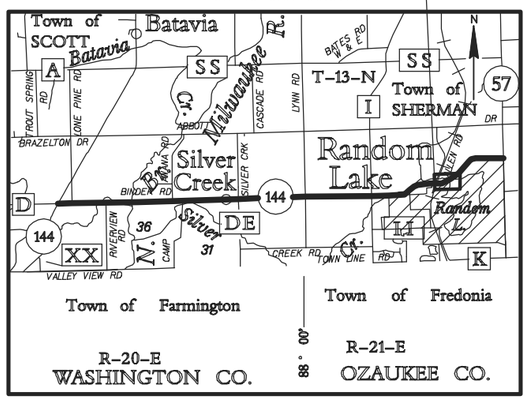
POINT	STATION	OFFSET	Y	X
589	512+90.79	33.93 L	107444.759	153927.574
590	512+90.80	40.47 L	107450.633	153924.692
591	513+02.40	48.33 L	107462.817	153931.626
592	513+12.42	50.52 L	107469.200	153939.645
593	513+27.32	33.83 L	107460.818	153960.383
790	516+00.04	39.86 R	107515.231	154237.596
791	516+00.05	50.00 R	107506.140	154242.086
792	516+85.82	50.00 R	107544.041	154319.023
793	516+90.00	50.00 R	107545.932	154322.853
794	516+94.70	40.07 R	107556.962	154322.735
967	503+81.42	311.16 L	107418.001	153036.996
968	512+90.79	0.00 L	107414.326	153942.566
969	516+00.04	0.00 L	107550.988	154219.981
990	516+79.42	40.06 R	107550.130	154308.894
1004	516+79.61	32.94 L	107615.697	154276.801

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1118 - 967	N00°13'57"E	1174.92'
967 - 968	S89°46'03"E	905.58'
968 - 589	N26°13'34"W	33.93'
589 - 590	N26°08'05"W	6.54'
590 - 591	N29°38'27"E	14.02'
591 - 592	N51°29'03"E	10.25'
592 - 593	S67°59'35"E	22.37'
593 - 1004	N63°55'10"E	352.29'
1004 - 794	S38°01'39"E	74.56'
794 - 990	ON CURVE	
990 - 790	S63°55'10"W	79.38'
790 - 969	N26°13'34"W	39.86'
969 - 968	S63°46'26"W	309.25'

LOCATION MAP
SHEBOYGAN COUNTY

SHEET LOCATION
T 13 N, R 21 E


Town of SCOTT
Batavia
Batavia
Cr.
Milwaukee
R.
T-13-N
Town of SHERMAN
Silver Creek
Random Lake
Random L.
Sheboygan R.
Sheboygan Marsh
Sheboygan Marsh
Sheboygan Marsh

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.16

PART OF GOVERNMENT LOT 2, TOWN OF SHERMAN, AND PART OF GOVERNMENT LOT 3, VILLAGE OF RANDOM LAKE, ALL IN SECTION 26, TOWNSHIP 13 NORTH, RANGE 21 EAST, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004998
SHEBOYGAN COUNTY WI
RECORDED ON
06/24/2015 10:59 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 163

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.16
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
96	ROBERT H. LEIDER & VERNA P. LEIDER	FEE	3718	4695	8413	-----	-----
97	ELIZABETH GARNI SURVIVOR'S TRUST & ERHARD GARNI FAMILY TRUST	FEE	821	5516	6337	-----	-----
98	ANTHONY J. STRIGENZ & ELIZABETH A. STRIGENZ	FEE	799	3241	4040	-----	-----

UTILITY INTERESTS REQUIRED

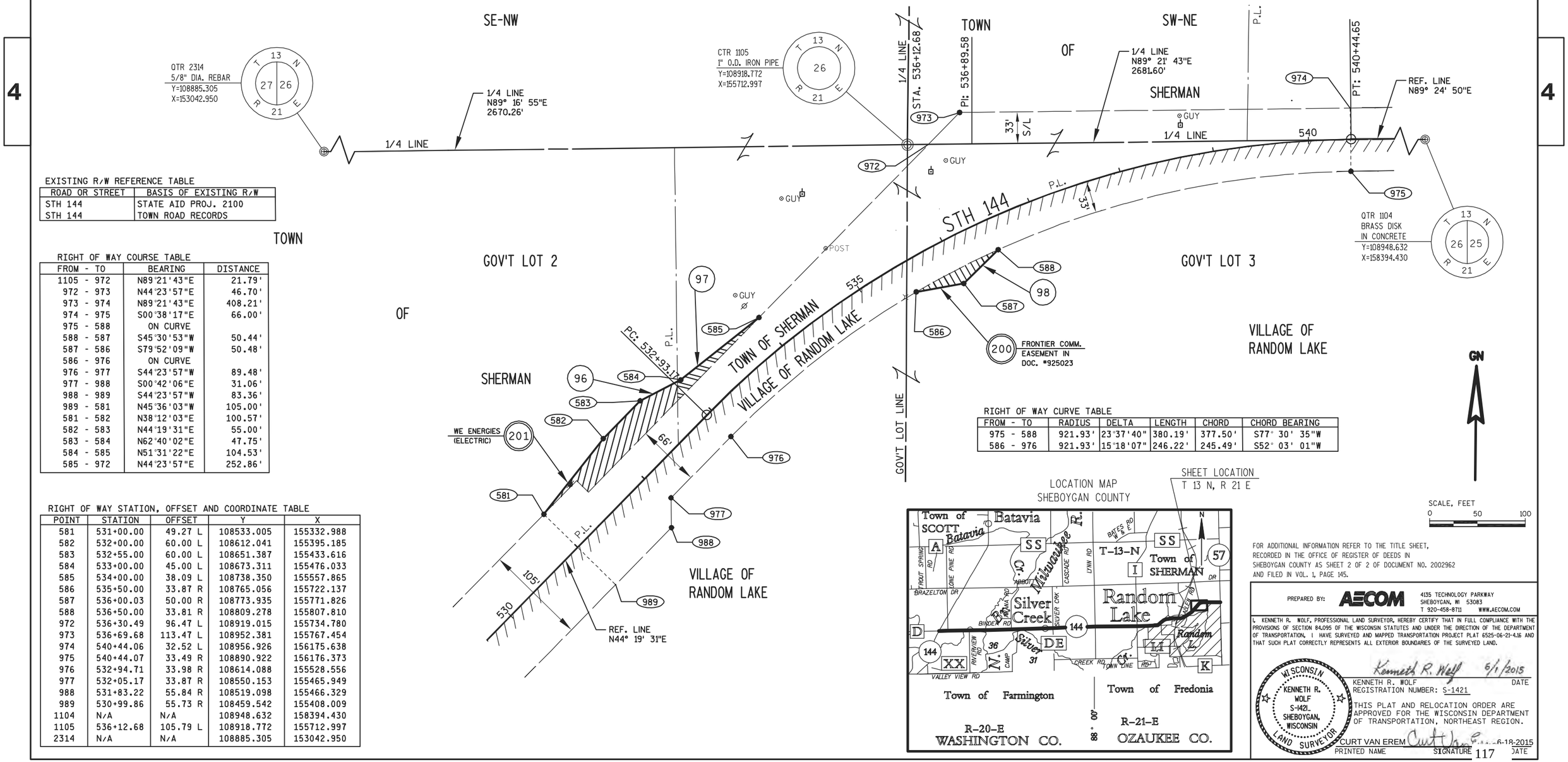
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

R/L CURVE DATA

P.I. = 536+89.58
Y 108920.36
X 155780.19
Δ. = 45° 05' 19"
D. = 6° 00' 00"
T. = 396.41'
L. = 751.48'
R. = 954.93'
P.C. = 532+93.17
P.T. = 540+44.65

R/L ALIGNMENT

P.I. STA. 524+63.76 Y 108043.422 X 154923.672
P.I. STA. 548+78.56 Y 108932.940 X 157010.450



EXISTING R/W REFERENCE TABLE

ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1105 - 972	N89°21'43"E	21.79'
972 - 973	N44°23'57"E	46.70'
973 - 974	N89°21'43"E	408.21'
974 - 975	S00°38'17"E	66.00'
975 - 588	ON CURVE	
588 - 587	S45°30'53"W	50.44'
587 - 586	S79°52'09"W	50.48'
586 - 976	ON CURVE	
976 - 977	S44°23'57"W	89.48'
977 - 988	S00°42'06"E	31.06'
988 - 989	S44°23'57"W	83.36'
989 - 581	N45°36'03"W	105.00'
581 - 582	N38°12'03"E	100.57'
582 - 583	N44°19'31"E	55.00'
583 - 584	N62°40'02"E	47.75'
584 - 585	N51°31'22"E	104.53'
585 - 972	N44°23'57"E	252.86'

RIGHT OF WAY CURVE TABLE

FROM - TO	RADIUS	DELTA	LENGTH	CHORD	CHORD BEARING
975 - 588	921.93'	23°37'40"	380.19'	377.50'	S77° 30' 35"W
586 - 976	921.93'	15°18'07"	246.22'	245.49'	S52° 03' 01"W

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
581	531+00.00	49.27 L	108533.005	155332.988
582	532+00.00	60.00 L	108612.041	155395.185
583	532+55.00	60.00 L	108651.387	155433.616
584	533+00.00	45.00 L	108673.311	155476.033
585	534+00.00	38.09 L	108738.350	155557.865
586	535+50.00	33.87 R	108765.056	155722.137
587	536+00.03	50.00 R	108773.935	155771.826
588	536+50.00	33.81 R	108809.278	155807.810
972	536+30.49	96.47 L	108919.015	155734.780
973	536+69.68	113.47 L	108952.381	155767.454
974	540+44.06	32.52 L	108956.926	156175.638
975	540+44.07	33.49 R	108890.922	156176.373
976	532+94.71	33.98 R	108614.088	155528.556
977	532+05.17	33.87 R	108550.153	155465.949
988	531+83.22	55.84 R	108519.098	155466.329
989	530+99.86	55.73 R	108459.542	155408.009
1104	N/A	N/A	108948.632	158394.430
1105	536+12.68	105.79 L	108918.772	155712.997
2314	N/A	N/A	108885.305	153042.950

LOCATION MAP
SHEBOYGAN COUNTY

SHEET LOCATION
T 13 N, R 21 E

GN

SCALE, FEET
0 50 100

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.16 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM 6-18-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040116_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 5/29/2015 4:57 PM PLOT BY : LAHAYE, CHRIS PLOT NAME : 040116_RP.DWG_

DETAIL SHEET 4.16

4

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
2	GERALD H. ARNDT & PATRICIA A. ARNDT	FEE & TLE	2736	6360	9096	495	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6525-06-21 - 4.17

PART OF THE SW 1/4 OF THE SE 1/4, AND PART OF THE SE 1/4 OF THE SW 1/4 OF SECTION 26, TOWNSHIP 13 NORTH, RANGE 20 EAST, TOWN OF SCOTT, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 144, STH 28 - STH 57, SHEBOYGAN COUNTY

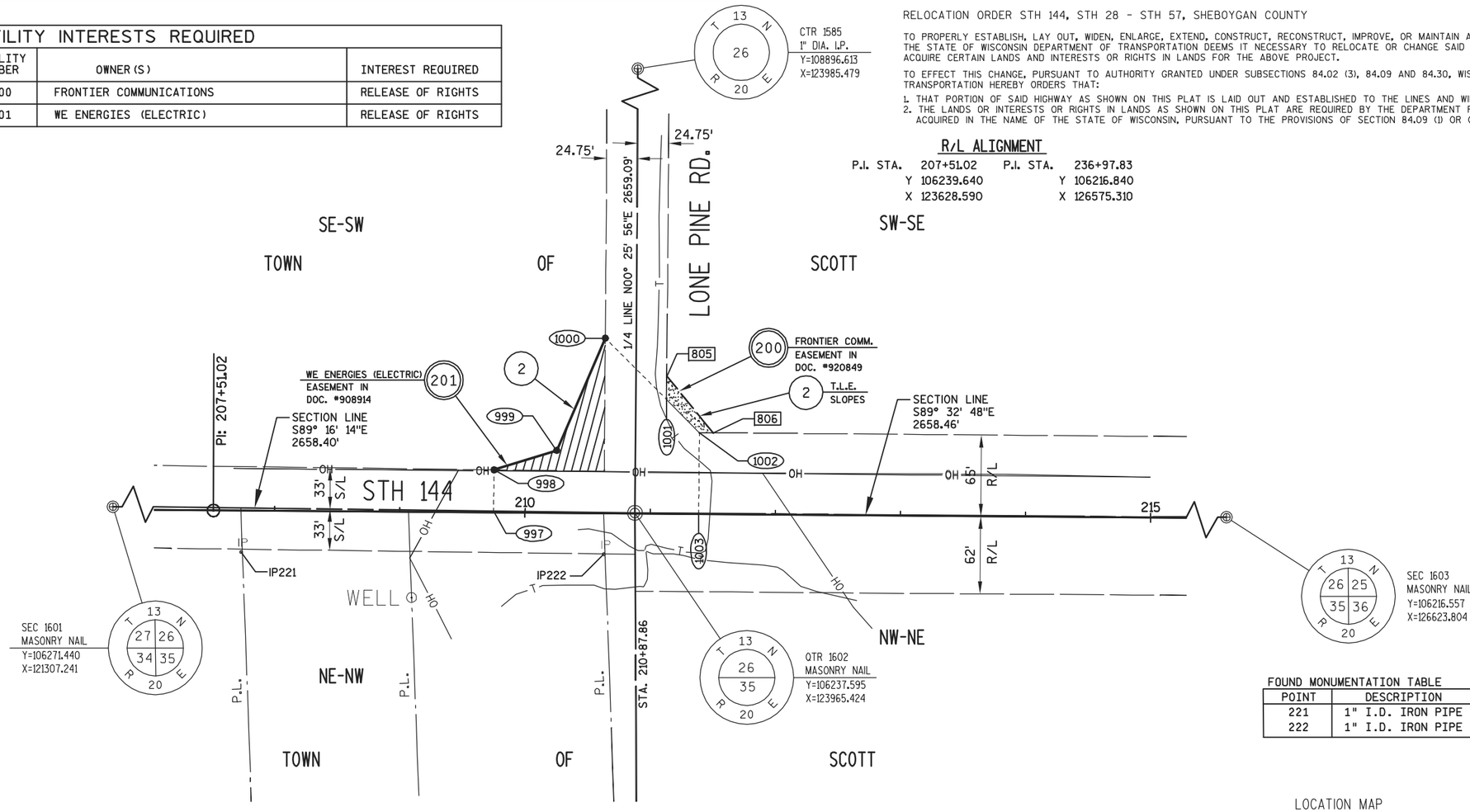
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

2004999
SHEBOYGAN COUNTY WI
RECORDED ON
06/24/2015 11:09 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9
Vol.: 1Page(s): 164

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6525-06-21-4.17
AMENDMENT NO:___



FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
221	1" I.D. IRON PIPE	207+73.28	33.095 R
222	1" I.D. IRON PIPE	210+63.31	32.656 R'

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
805	211+12.59	110.00 L	106346.839	123990.999
806	211+50.00	65.00 L	106301.551	124028.061
997	209+74.84	1.13 L	106239.034	123852.407
998	209+75.00	34.13 L	106272.031	123852.827
999	210+25.00	50.00 L	106287.519	123902.949
1000	210+63.09	140.00 L	106377.221	123941.726
1001	211+12.60	91.39 L	106328.228	123990.858
1002	211+38.86	65.00 L	106301.637	124016.918
1003	211+38.85	0.55 L	106237.191	124016.408
1602	210+87.86	0.56 L	106237.595	123965.424
1603	237+46.33	0.22 L	106216.557	126623.804

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
1602 - 997	N89°16'14"W	113.03'
997 - 998	N00°43'46"E	33.00'
998 - 999	N72°49'44"E	52.46'
999 - 1000	N23°22'42"E	97.73'
1000 - 1001	S45°04'51"E	69.39'
1001 - 1002	S44°25'21"E	37.23'
1002 - 1003	S00°27'12"W	64.45'
1003 - 1602	N89°32'48"W	50.99'

EXISTING R/W REFERENCE TABLE

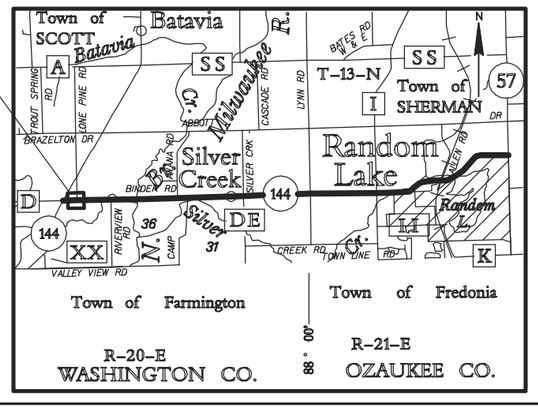
ROAD OR STREET	BASIS OF EXISTING R/W
STH 144	STATE AID PROJ. 2100
STH 144	TOWN ROAD RECORDS
LONE PINE RD.	TOWN ROAD RECORDS

GN

SCALE, FEET
0 50 100

SHEET LOCATION
T 13 N, R 20 E

LOCATION MAP
SHEBOYGAN COUNTY



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 2002962 AND FILED IN VOL. 1, PAGE 145.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, 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 SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6525-06-21-4.17 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 6/1/2015
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM 6-18-2015
PRINTED NAME SIGNATURE DATE

FILE NAME : P:\60301457\900-WORKINGDOCS-CAD\SHEETS\040117_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 6/1/2015 4:55 PM
PLOT BY : LAHAYE, CHRIS
PLOT NAME : 040117_RP.DWG_

DETAIL SHEET 4.17

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
621	201+24	57'LT RR SPIKE PPOL#06-02330 NE QUAD STH 144 & STH 28	890.88

PI STATION = 20+89.65
PI X,Y = 123960.03, 106324.42
DELTA = 9°40'47"
DEGREE = 12°37'03"
TANGENT = 38.45
LENGTH = 76.72
RADIUS = 454.10
PC STATION = 20+51.20
PT STATION = 21+27.91

BEGIN PROJECT 6525-06-71
STA 200+44

STH 28

STH 144

EXISTING R/W

PI 207+51.02

MODIFIED TYPE D INTERSECTION

LONE PINE ROAD

PT 21+99.97

PC 20+64.70

SLOPE INTERECEPTS

SLOPE INTERCEPTS

STA 20+96
SAWING ASPHALT REQ'D

STA 20+48
1-18"x98' CPCS CLASS III

BEGIN RESURFACING
STA 201+00
SAWING ASPHALT REQ'D

STA 200+00 STH 144 =
STA 163+84 STH 28

STA 20+26
REMOVE EXISTING 18" CULVERT PIPE

STA 210+95.52 STH 144 =
STA 20+00 LONE PINE ROAD

N

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
620	224+00	RR SPIKE PPOL#45-3, 30FT N OF ℄ STH 144, TPED 1000 FT WEST OF MINK RIVER	824.17

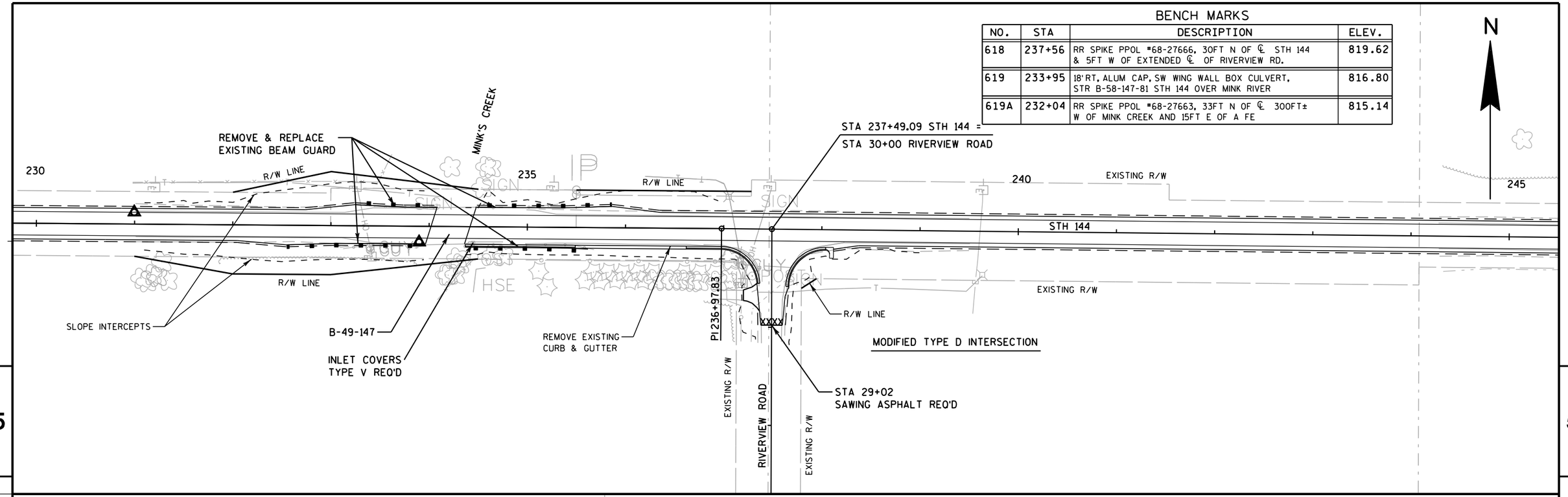
STH 144

EXISTING R/W

N

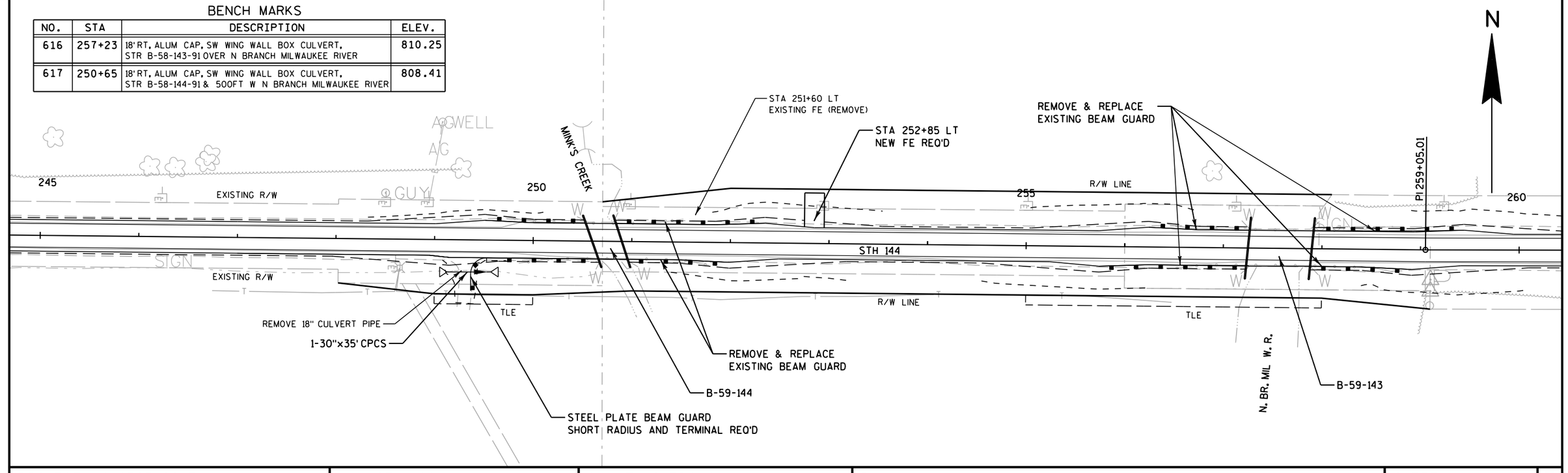
BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
618	237+56	RR SPIKE PPOL *68-27666, 30FT N OF ℄ STH 144 & 5FT W OF EXTENDED ℄ OF RIVERVIEW RD.	819.62
619	233+95	18' RT, ALUM CAP, SW WING WALL BOX CULVERT, STR B-58-147-81 STH 144 OVER MINK RIVER	816.80
619A	232+04	RR SPIKE PPOL *68-27663, 33FT N OF ℄ 300FT± W OF MINK CREEK AND 15FT E OF A FE	815.14



BENCH MARKS

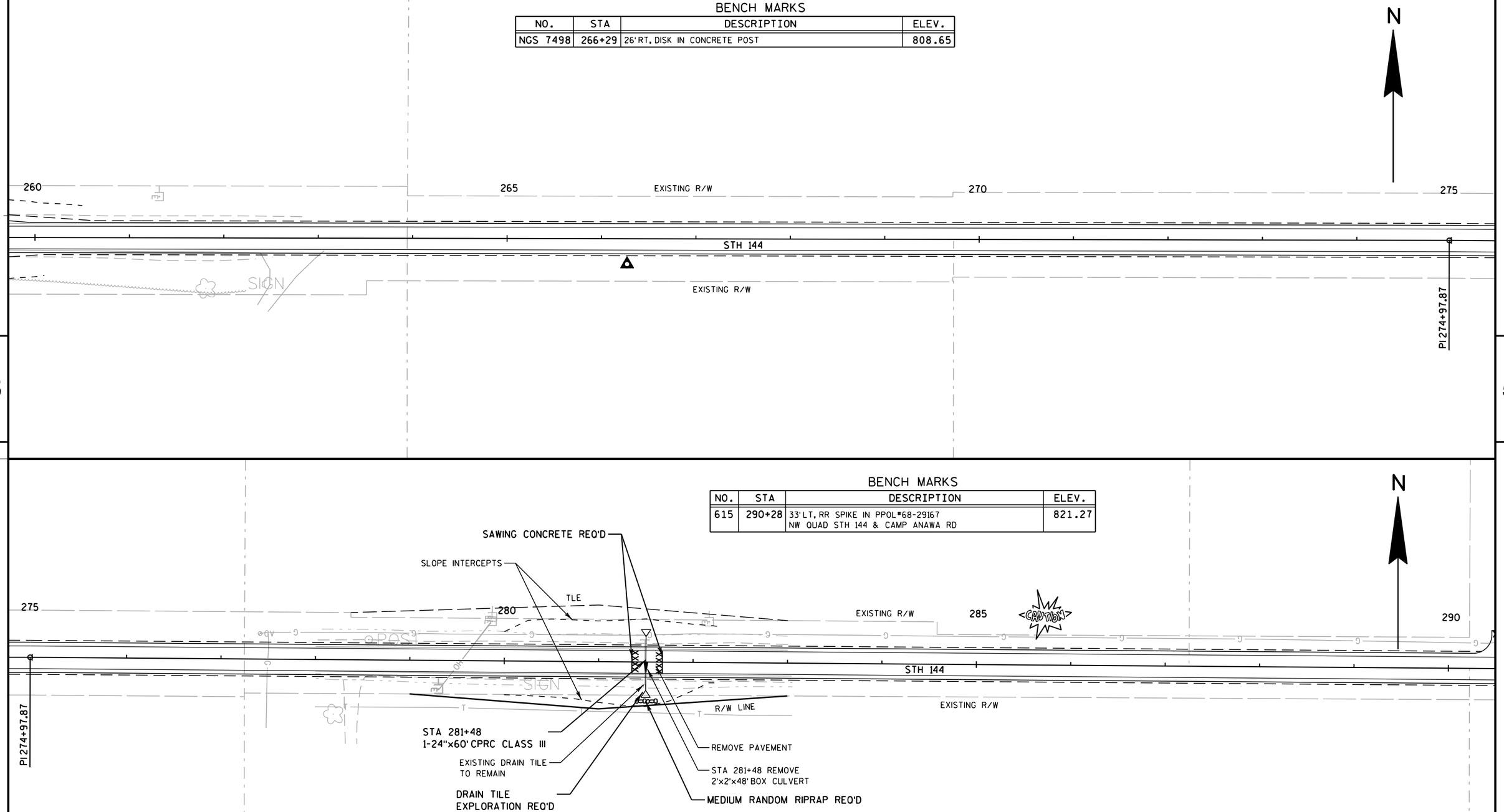
NO.	STA	DESCRIPTION	ELEV.
616	257+23	18' RT, ALUM CAP, SW WING WALL BOX CULVERT, STR B-58-143-91 OVER N BRANCH MILWAUKEE RIVER	810.25
617	250+65	18' RT, ALUM CAP, SW WING WALL BOX CULVERT, STR B-58-144-91 & 500FT W N BRANCH MILWAUKEE RIVER	808.41



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET 120 E

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
NGS 7498	266+29	26' RT. DISK IN CONCRETE POST	808.65



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET	E

FILE NAME : F:\d3_652506\050203_pn.dgn PLOT DATE : 31-AUG-2016 12:42 PLOT BY : dotmzc PLOT NAME : 050203 pn PLOT SCALE : 100:1

N

PI STATION = 296+65.00
PI X,Y = 132542.29, 106173.86
DELTA = 1°07'08"
DEGREE = 0°29'11"
TANGENT = 115.04
LENGTH = 230.08
RADIUS = 11782.87
PC STATION = 295+49.96
PT STATION = 297+80.04
∠ = 181°07'08"
S.E. = NC

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
615	290+28	33'LT, RR SPIKE PPOL#68-29167 NW QUAD STH 144 & AWANA RD	821.27

CAMP ANAWA (NORTH)
STA 40+40
SAWING ASPHALT REQ'D
290
EXISTING R/W
295
STH 144
EXISTING R/W
STA 290+55.18 STH 144 =
STA 40+00 CAMP ANAWA (NORTH)
PC 295+49.96
TYPE C INTERSECTION
PT 297+80.04
CAMP ANAWA (SOUTH)
SAWING CONCRETE REQ'D
REMOVE PAVEMENT
STA 299+00 REMOVE
2'x2'x49' BOX CULVERT
CAUTION
300
SAWING CONCRETE REQ'D
STA 301+16 REMOVE
5'x3'x48' BOX CULVERT
REMOVE PAVEMENT
SAWING CONCRETE REQ'D
CONCRETE DRIVEWAY
6-INCH
305
STA 299+00
1-30"x56' CPRC
MEDIUM RANDOM RIPRAP REQ'D
STA 298+63.39 STH 144 =
STA 60+00 CAMP ANAWA (SOUTH)
RESURFACE WAYSIDE
STA 59+50
SAWING ASPHALT REQ'D
EXISTING R/W
STA 301+16
1-43"x68"x76' CPRCHE CLASS III
SKEW 5°-23'-00" LHF
MEDIUM RANDOM RIPRAP REQ'D
REMOVE & REPLACE
EXISTING BEAM GUARD

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
614	317+11	23'LT, RR SPIKE PPOL#68-32774 NE QUAD STH 144 & SCHROETER RD	855.63

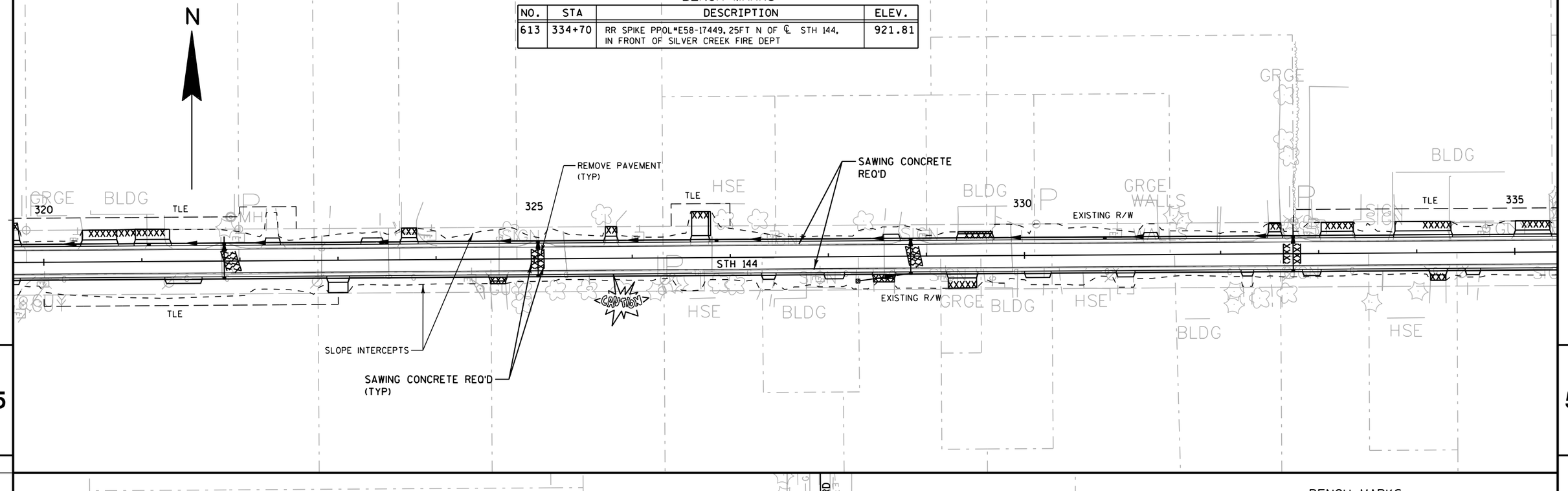
N
SAWING CONCRETE REQ'D
SLOPE INTERCEPTS
PI 312+69.70
EXISTING R/W
305
TLE
EXISTING R/W
310
TLE
STH 144
CAUTION
EXISTING R/W
TLE
REMOVE SURFACE DRAIN
MEDIUM RANDOM RIPRAP
REMOVE PAVEMENT
(TYP)
SAWING CONCRETE REQ'D
(TYP)
PC 72+02.09
SCHROETER RD
STA 71+36
SAWING ASPHALT REQ'D
ASPHALTIC FLUME
DRAINAGE EASEMENT
DOCUMENT #582370
R/W LINE
MEDIUM RANDOM RIPRAP
315
TLE
MODIFIED TYPE D INTERSECTION
TLE
320
EXISTING R/W
TLE
STA 316+04 REMOVE
2'x2'x48' BOX CULVERT
STA 316+68.00 STH 144 =
STA 70+00 SCHROETER ROAD

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET	E

FILE NAME : F:\d3_652506\050204_pn.dgn PLOT DATE : 20-OCT-2016 13:40 PLOT BY : ditjbs PLOT NAME : 050204 pn PLOT SCALE : 100:1

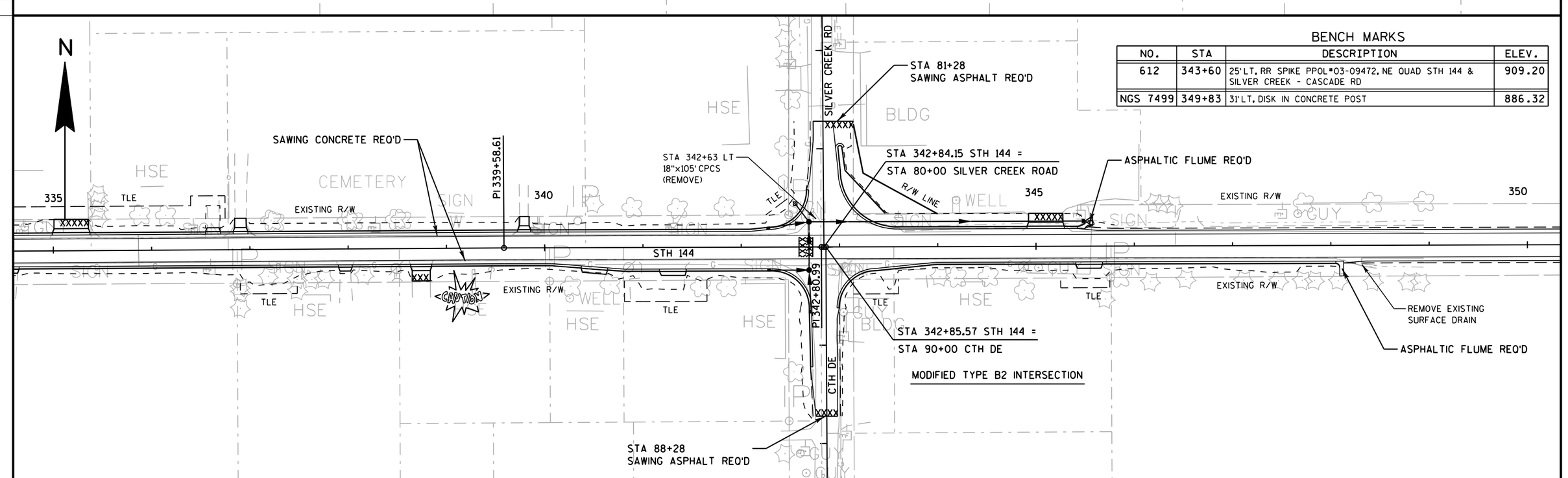
BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
613	334+70	RR SPIKE PPOL*E58-17449, 25FT N OF ℄ STH 144, IN FRONT OF SILVER CREEK FIRE DEPT	921.81



BENCH MARKS

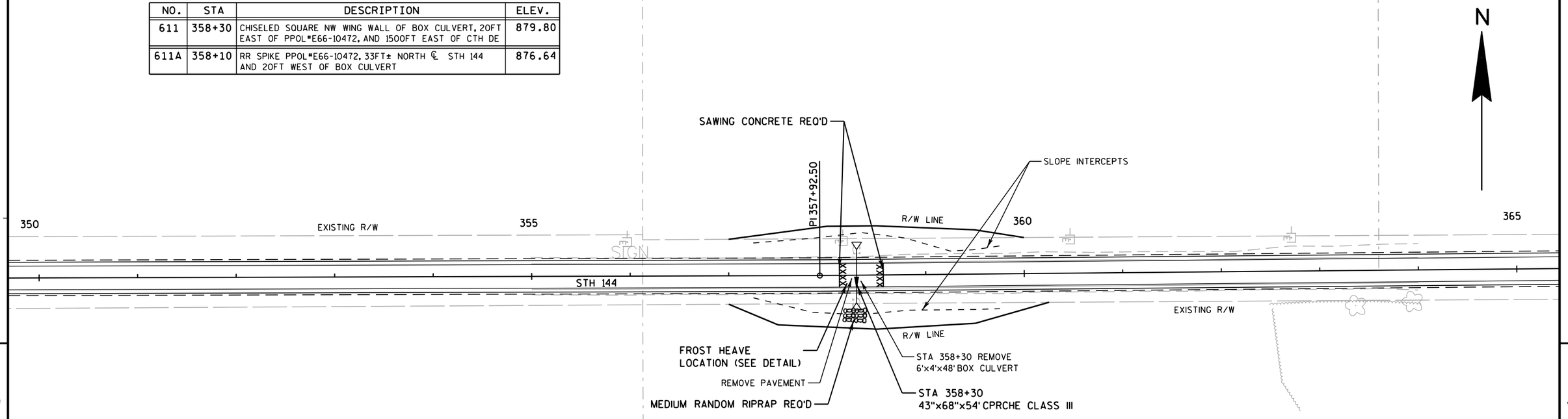
NO.	STA	DESCRIPTION	ELEV.
612	343+60	25' LT, RR SPIKE PPOL*03-09472, NE QUAD STH 144 & SILVER CREEK - CASCADE RD	909.20
NGS 7499	349+83	31' LT, DISK IN CONCRETE POST	886.32



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET E

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
611	358+30	CHISELED SQUARE NW WING WALL OF BOX CULVERT, 20FT EAST OF PPOL*E66-10472, AND 1500FT EAST OF CTH DE	879.80
611A	358+10	RR SPIKE PPOL*E66-10472, 33FT± NORTH ℄ STH 144 AND 20FT WEST OF BOX CULVERT	876.64

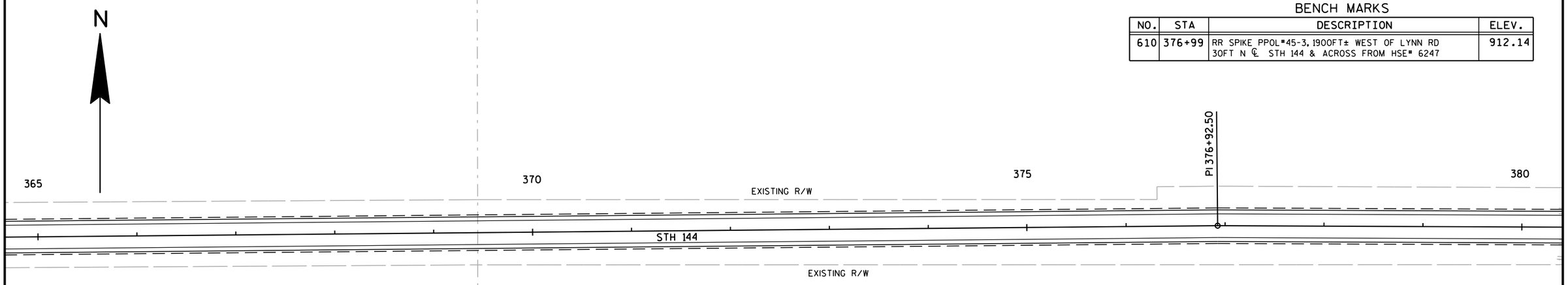


5

5

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
610	376+99	RR SPIKE PPOL*45-3, 1900FT± WEST OF LYNN RD 30FT N ℄ STH 144 & ACROSS FROM HSE* 6247	912.14



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET	E

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
609	394+19	30' LT, RR SPIKE PPOL#66-10462, 150FT± W OF LYNN RD	928.33

N

EP 102

STA 382+87
2-48"x60' CPRC
CONCRETE MASONRY ENDWALL REQ'D (TYP)

STA 382+87 REMOVE
6'x4'x45' BOX CULVERT

R/W LINE

REMOVE PAVEMENT

380 385 390 395

PI 393+92.54

EXISTING R/W

STH 144

EXISTING R/W

R/W LINE

MEDIUM RANDOM RIPRAP REQ'D

SAWING CONCRETE REQ'D

5

5

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
NGS 7500	407+96	30' RT, DISK IN CONCRETE POST	908.94

N

EP 102+10.85

LYNN ROAD

STA 101+59
SAWING ASPHALT REQ'D

TYPE D INTERSECTION

STA 100+30
19"x30"x135' CPRCHE CLASS IV

STA 395+98.31 STH 144 =
STA 100+00 LYNN ROAD

ASPHALTIC FLUME

ASPHALTIC FLUME

395 R/W LINE

R/W LINE

400 405 410

EXISTING R/W

STH 144

SAWING CONCRETE REQ'D
(TYP)

TLE

TLE

EXISTING R/W

REMOVE PAVEMENT
(TYP)

STA 403+27 REMOVE
2'x2'x44' BOX CULVERT

STA 403+27
24"x38"x42' CPRCHE CLASS IV

PI 409+92.54

R/W LINE

R/W LINE

ASPHALTIC FLUME

SLOPE INTERCEPTS

FROST HEAVE LOCATION
STA 396+04 (SEE DETAIL)

STA 99+73
REMOVE PIPE

STA 99+56
19"x30"x80' CPRCHE CLASS IV

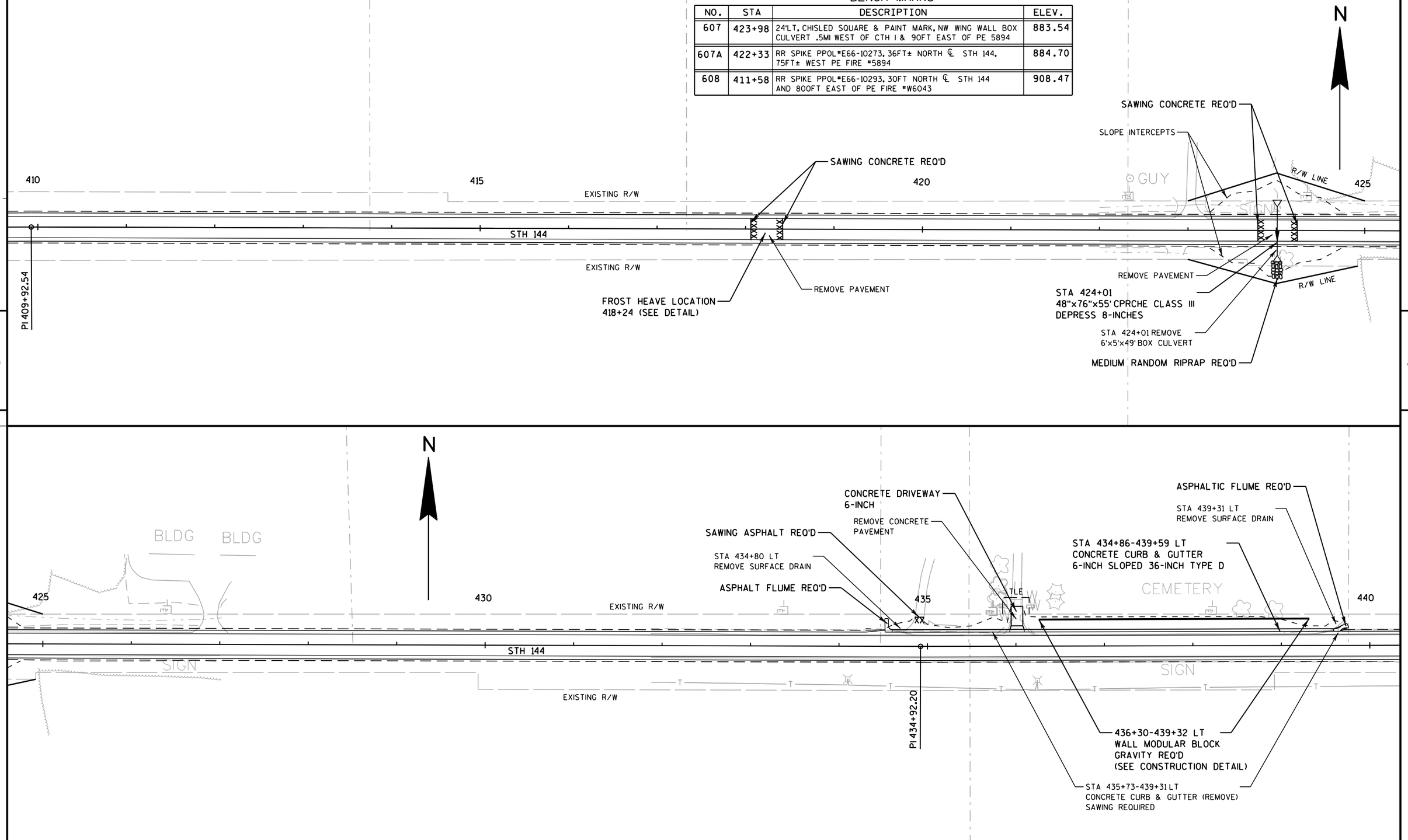
STA 98+42
SAWING ASPHALT REQ'D

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET	E

FILE NAME : F:\d3_652506\050207_pn.dgn PLOT DATE : 27-OCT-2016 10:29 PLOT BY : dotmzc PLOT NAME : 050207 pn PLOT SCALE : 100:1

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
607	423+98	24'LT, CHISLED SQUARE & PAINT MARK, NW WING WALL BOX CULVERT .5MI WEST OF CTH I & 90FT EAST OF PE 5894	883.54
607A	422+33	RR SPIKE PPOL #E66-10273, 36FT± NORTH ℄ STH 144, 75FT± WEST PE FIRE #5894	884.70
608	411+58	RR SPIKE PPOL #E66-10293, 30FT NORTH ℄ STH 144 AND 800FT EAST OF PE FIRE #W6043	908.47



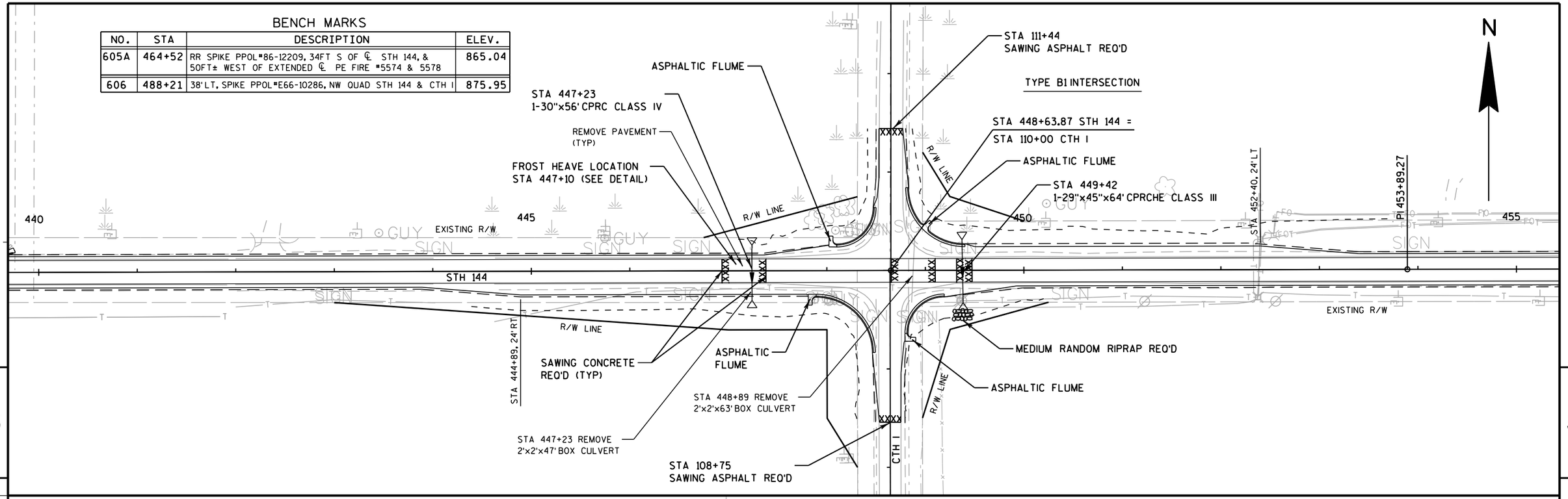
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET	E

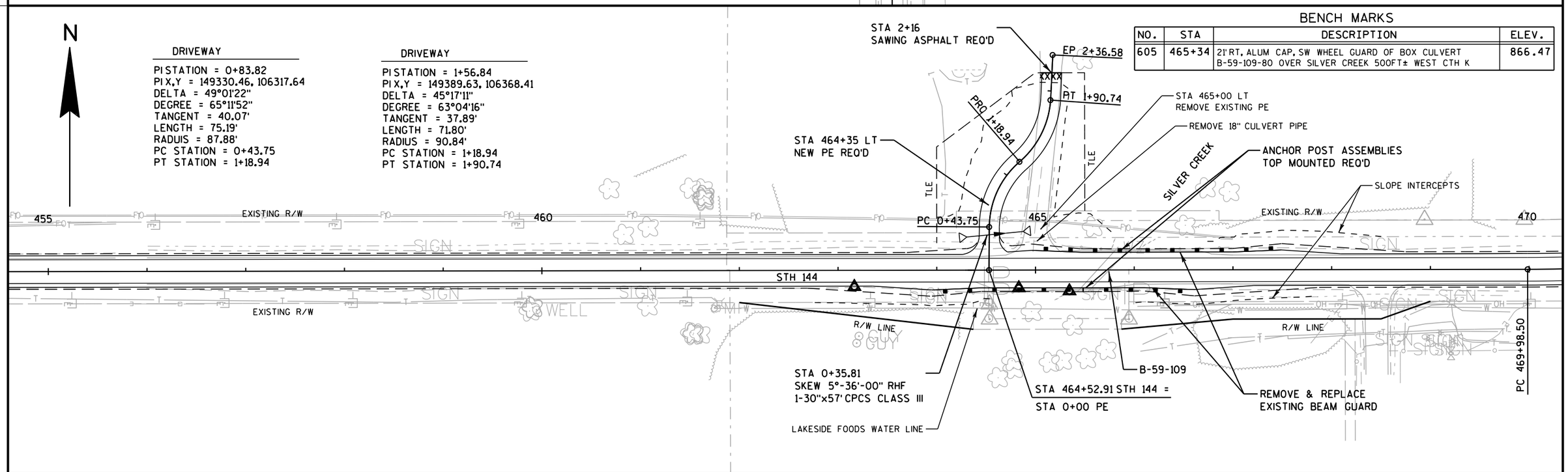
FILE NAME : F:\d3_652506\050208_pn.dgn PLOT DATE : 27-OCT-2016 10:20 PLOT BY : dotmzc PLOT NAME : 050208 pn PLOT SCALE : 100:1

WISDOT/CADDS SHEET 44

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
605A	464+52	RR SPIKE PPOL*86-12209, 34FT S OF ℄ STH 144, & 50FT± WEST OF EXTENDED ℄ PE FIRE *5574 & 5578	865.04
606	488+21	38' LT, SPIKE PPOL*E66-10286, NW QUAD STH 144 & CTH I	875.95





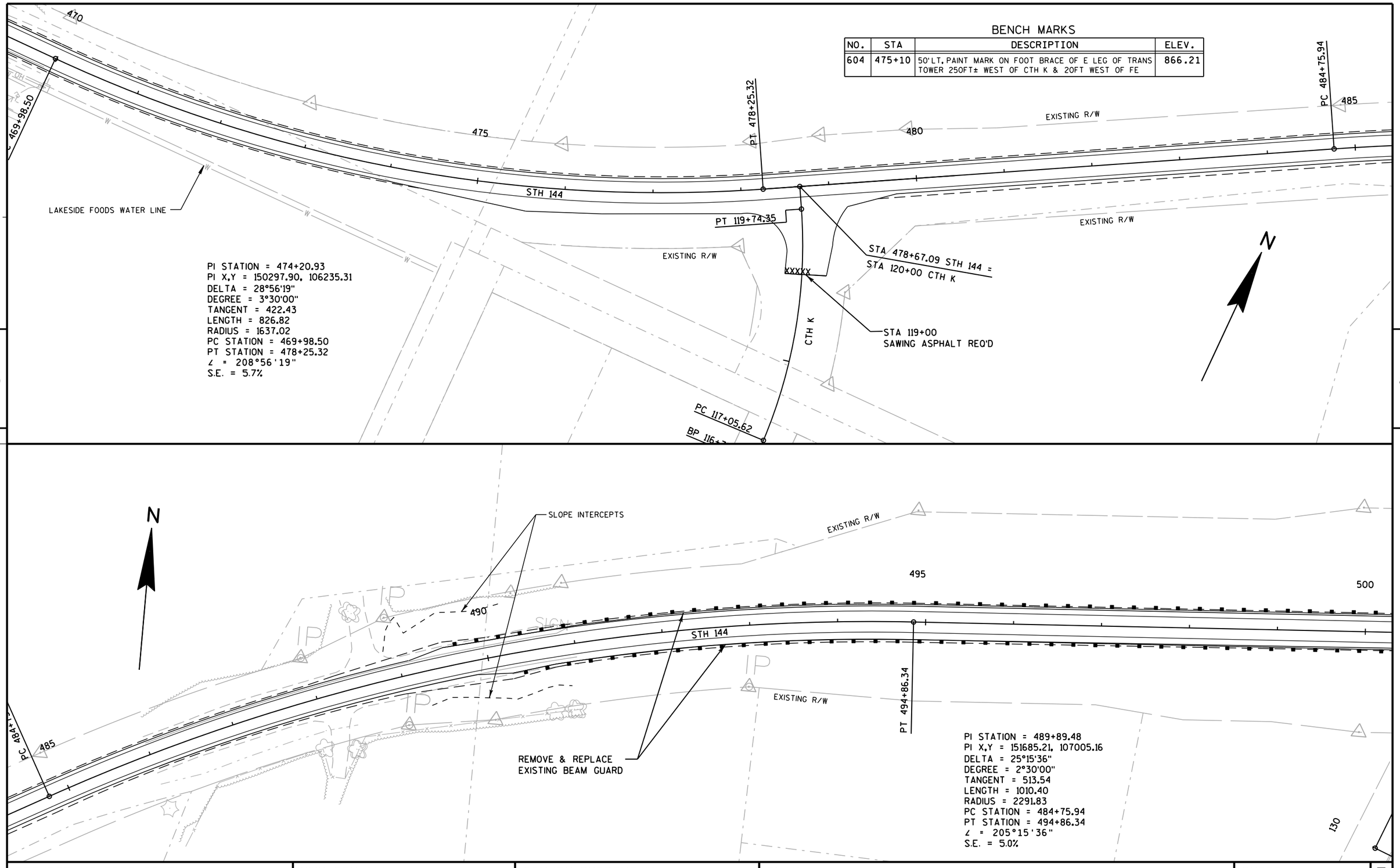
BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
605	465+34	21' RT, ALUM CAP, SW WHEEL GUARD OF BOX CULVERT B-59-109-80 OVER SILVER CREEK 500FT± WEST CTH K	866.47

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET	E

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
604	475+10	50'LT, PAINT MARK ON FOOT BRACE OF E LEG OF TRANS TOWER 250FT± WEST OF CTH K & 20FT WEST OF FE	866.21



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET	E

FILE NAME : F:\d3_652506\050210_pn.dgn PLOT DATE : 24-JAN-2017 13:53 PLOT BY : dotmzc PLOT NAME : 050210 pn PLOT SCALE : 100:1

WISDOT/CADDS SHEET 44

5

5

128

PI 134+06.16
PC 501+17.67
500
RR TRACKS
N
EXISTING R/W
SLOPE INTERCEPTS
REMOVE & REPLACE
EXISTING BEAM GUARD
505
ALLEN RD
STH 144
B-59-104
STA 501+30.99 STH 144 =
STA 132+71.02 ALLEN ROAD
PI 129+55.73
PT 129+35.23
PC 127+50.53
PI 127+02.53
BP 125+92.17
130+00.00
CARROLL ST
EXISTING R/W
STA 506+90.00 STH 144 =
STA 130+00 CARROLL STREET
STA 129+08
SAWING ASPHALT REQ'D
STEEL PLATE BEAM GUARD
SHORT RADUIS & TERMINAL REQ'D

PI STATION = 506+23.25
PI X,Y = 153332.10, 107113.59
DELTA = 22°27'33"
DEGREE = 2°15'00"
TANGENT = 505.58
LENGTH = 998.18
RADIUS = 2546.48
PC STATION = 501+17.67
PT STATION = 511+15.85
∠ = 202°27'33"
S.E. = 3.8%

STA 513+11
1-4'x3'x5' PRECAST BOX EXTENSION REQ'D
1-4'x3'x8' END SECTION REQ'D
MEDIUM RANDOM RIPRAP REQ'D
R/W LINE
CONCRETE COLLAR REQ'D
ASPHALTIC
FLUME REQ'D
515
510
CAUTION
PT 511+15.85
INSTALL BEAM GUARD
SLOPE INTERCEPTS
REMOVE EXISTING 18" PIPE
1-CPCS 18"x32' CLASS III REQ'D

BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
603	500+41	20'RT, ALUM CAP SW PARAPET WALL OF STR# B-59-104-80 STH 144 OVER RAILROAD TRACK	908.05

5

5

PI STATION = 520+78.57
PI X,Y = 154649.25, 107762.46
DELTA = 19°26'55"
DEGREE = 2°30'00"
TANGENT = 392.75
LENGTH = 777.94
RADIUS = 2291.83
PC STATION = 516+85.82
PT STATION = 524+63.76
∠ = 199°26'55"
S.E. = 3.7%

PC 516+85.82
515
520
CAUTION
EXISTING R/W
STA 523+48.83 STH 144 =
STA 170+00 STARK ROAD
PT 524+63.76
525
530
STH 144
PT 169+72.79
EXISTING R/W
STA 168+95
SAWING ASPHALT REQ'D
PC 168+98.95
BP 167+05.00
EXISTING R/W
STARK RD
EXISTING R/W

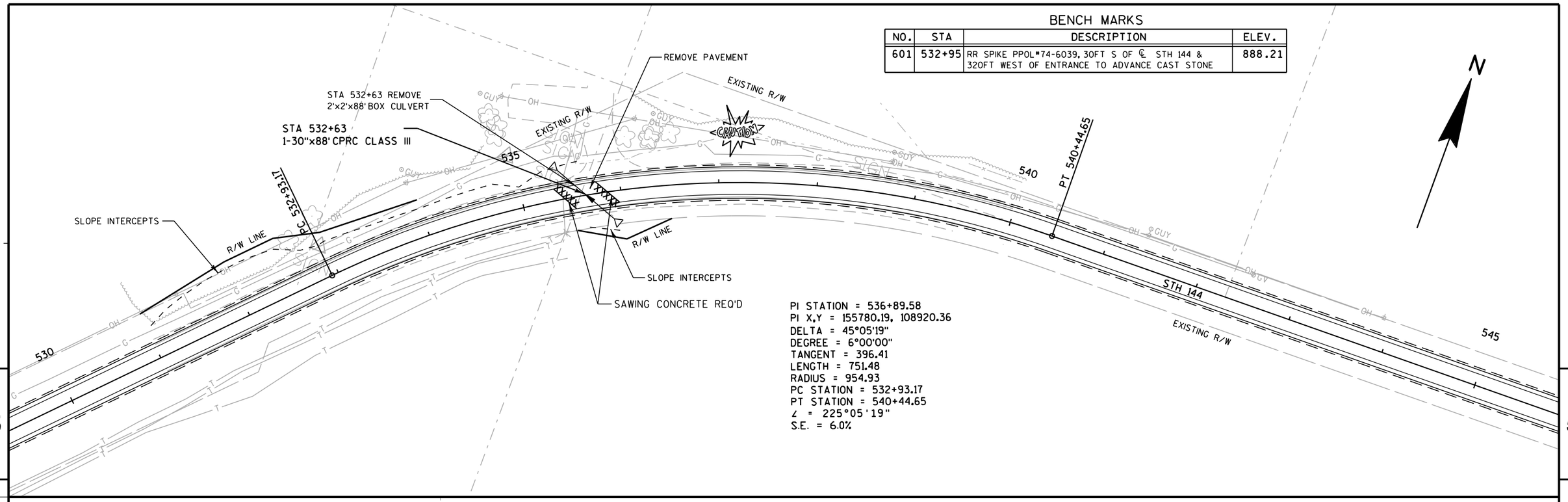
BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
602	524+09	27'RT, RR SPIKE LPOL#81-00862, SE QUAD STH 144 & STARK RD	906.58

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET 129	E

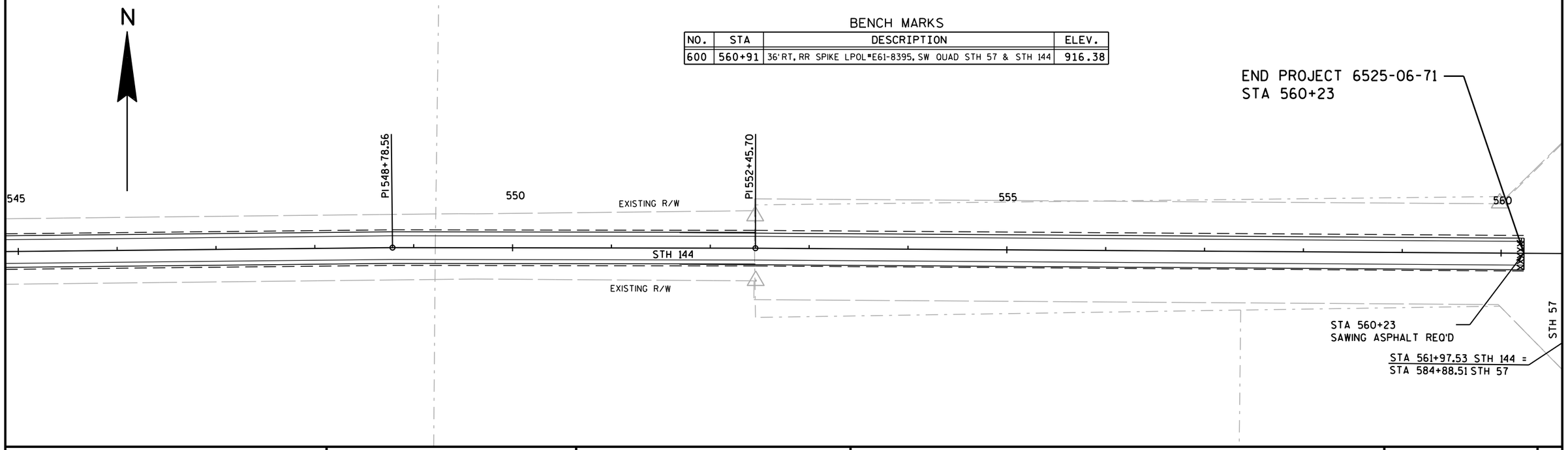
BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
601	532+95	RR SPIKE PPOL*74-6039, 30FT S OF ℄ STH 144 & 320FT WEST OF ENTRANCE TO ADVANCE CAST STONE	888.21



BENCH MARKS

NO.	STA	DESCRIPTION	ELEV.
600	560+91	36'RT, RR SPIKE LPOL*E61-8395, SW QUAD STH 57 & STH 144	916.38



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN	SHEET 130 E

PI STATION = 296+65.00
PI X,Y = 132542.29, 106173.86
DELTA = 1°07'08"
DEGREE = 0°29'11"
TANGENT = 115.04
LENGTH = 230.08
RADIUS = 11782.87
PC STATION = 295+49.96
PT STATION = 297+80.04
∠ = 181°07'08"
S.E. = NC

42+99.99
CAMP ANAWA (NORTH)
EXISTING R/W
PC 295+49.96
PT 297+80.04
STH 144
PI 57+45.61
CAMP ANAWA (SOUTH)
BP 55+35.99
STA 298+63.39 STH 144 =
STA 60+00 CAMP ANAWA (SOUTH)
BARN
BLDG
HSE
TLE
WELL
SILO
EP 72+88.18
PC 72+02.09
SCHROETER ROAD
PI 312+69.70
STA 316+68.00 STH 144 =
STA 70+00 SCHROETER ROAD

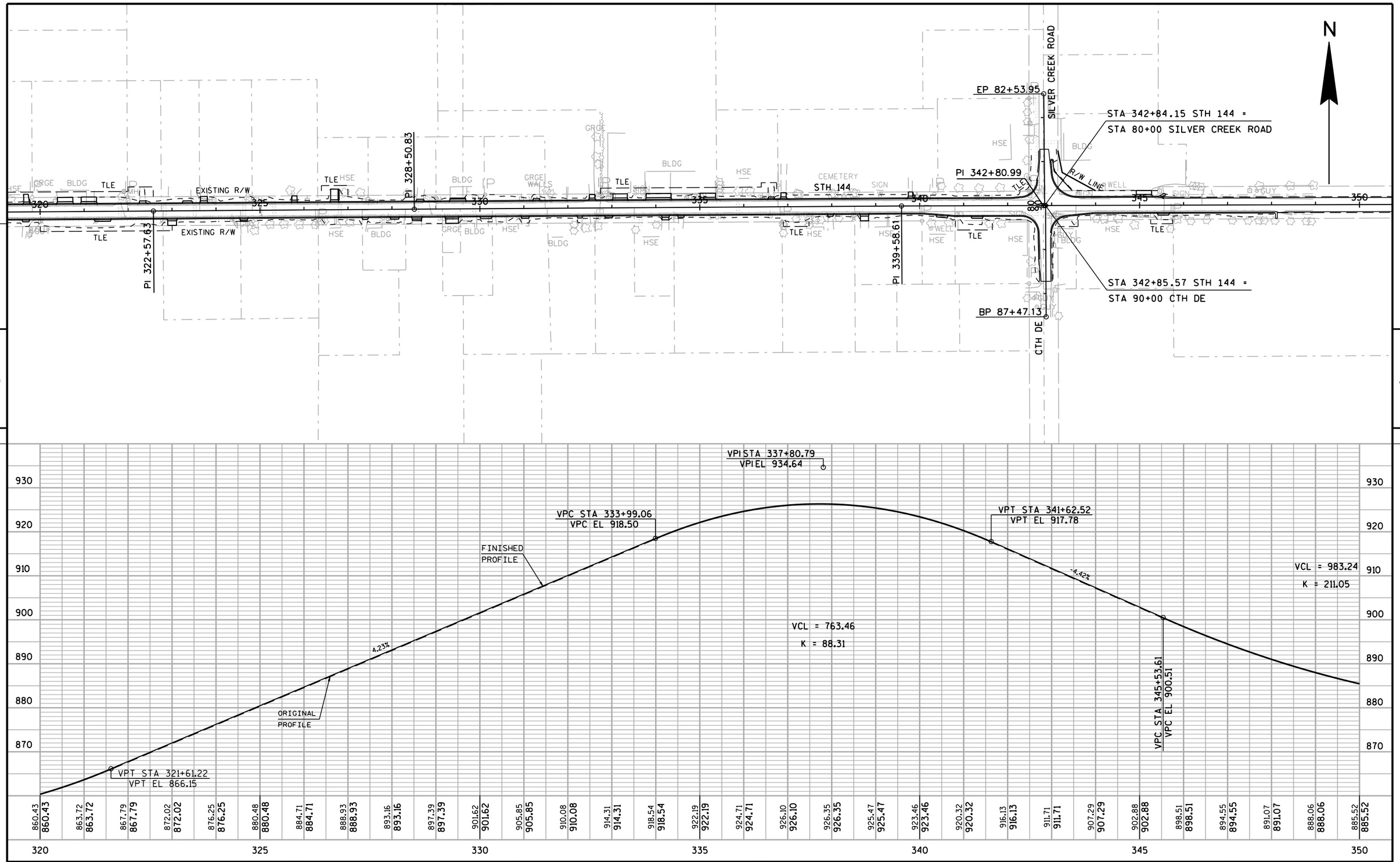
VCL = 245.00
K = 262.27
VPC STA 290+80.00
VPC EL 822.16
VPI STA 292+02.50
VPI EL 822.42
VPT STA 293+25.00
VPT EL 821.53
-0.72%
VCL = 300.00
K = 198.78
299+00
30"x56' CPRC
301+16
48"x68"x76' CPRC HE
SKEW 55°
VPC STA 296+75.00
VPC EL 819.00
VPI STA 298+25.00
VPI EL 817.92
VPT STA 299+75.00
VPT EL 819.10
0.79%
ORIGINAL
PROFILE
FINISHED
PROFILE
VPC STA 305+10.00
VPC EL 823.31
VPI STA 307+00.00
VPI EL 824.80
VCL = 380.00
K = 82.33
VPC STA 310+67.52
VPC EL 844.65
5.40%
VPT STA 308+90.00
VPT EL 835.06
VPI STA 312+50.53
VPI EL 854.54
VCL = 366.02
K = 70.81
VPT STA 314+33.54
VPT EL 854.97
0.23%
VPC STA 316+86.40
VPC EL 855.56
VPI STA 319+23.81
VPI EL 856.11
VCL = 474.82
K = 118.83

850 840 830 820 810 800

821.99 822.20 822.14 821.70 820.99 820.27 819.55 818.84 818.49 818.65 819.30 820.08 820.87 821.65 822.44 823.23 824.51 826.99 830.69 835.60 841.01 846.33 850.57 853.40 854.81 855.12 855.35 855.60 856.36 857.97 860.43

290 295 300 305 310 315 320

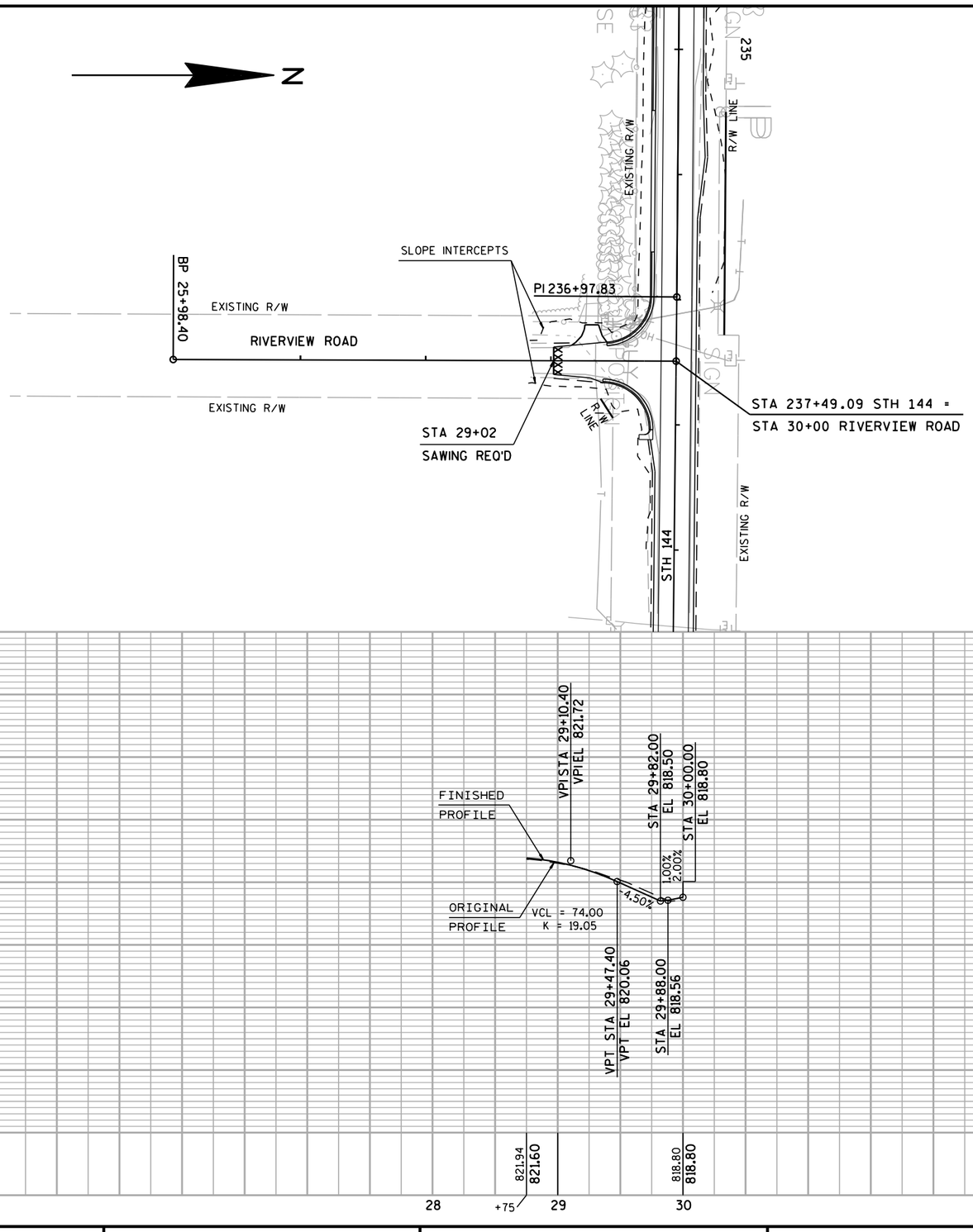
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN AND PROFILE	SHEET E



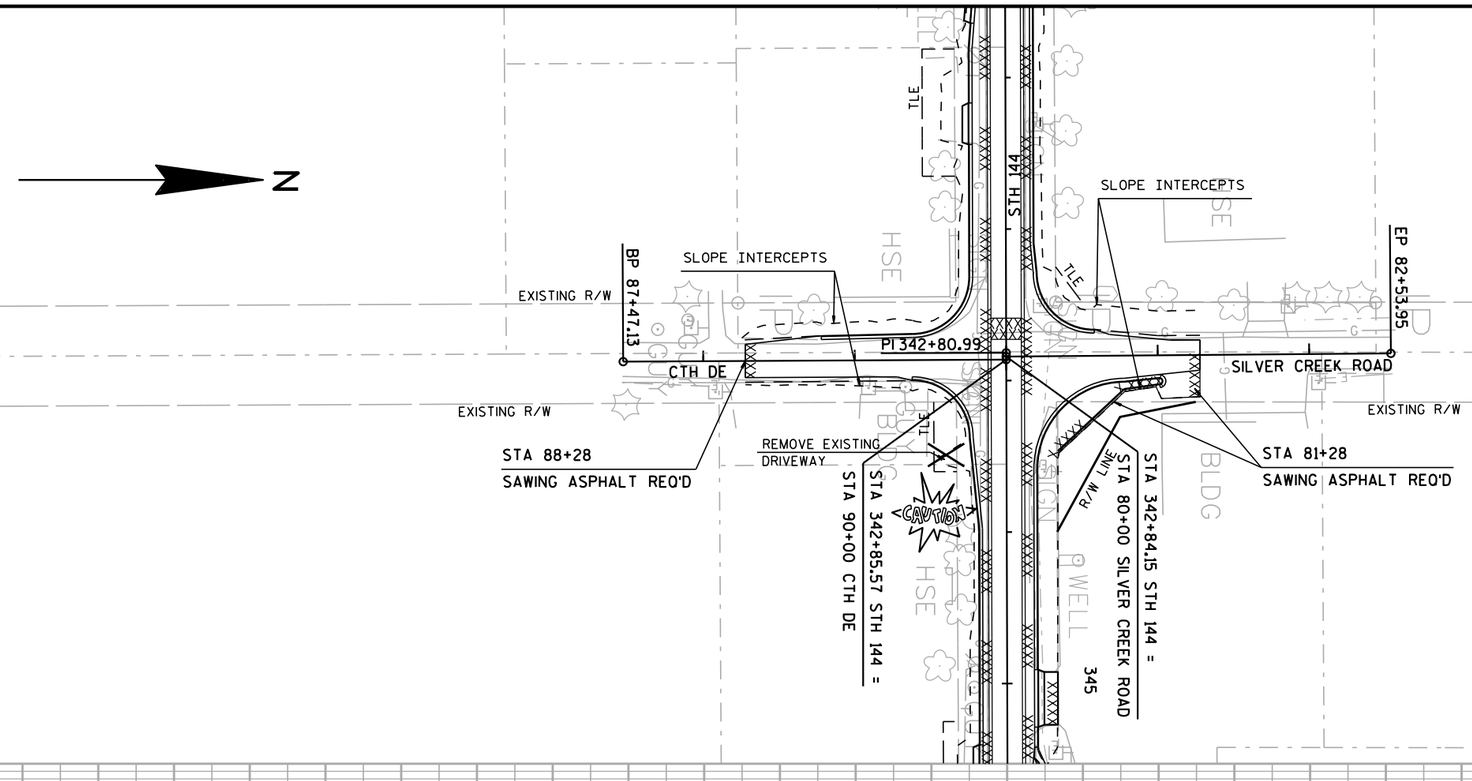
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN AND PROFILE	SHEET	E

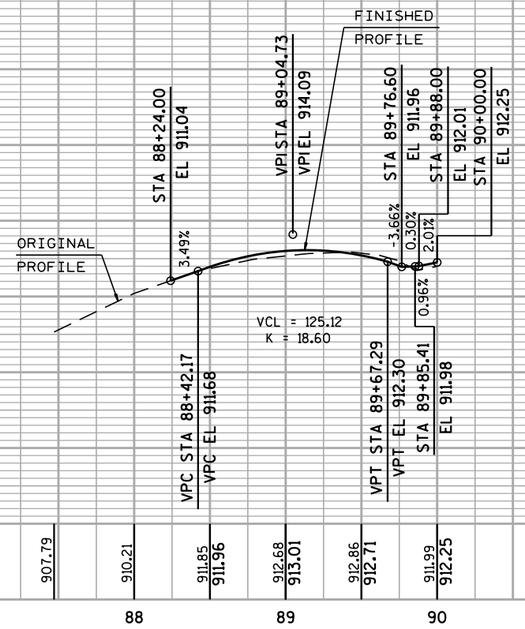
FILE NAME : F:\d3_652506\050103_pp.dgn PLOT DATE : 27-JUL-2016 16:04 PLOT BY : dotmzc PLOT NAME : 050103 pp.i PLOT SCALE : 200:1

WISDOT/CADDS SHEET 40

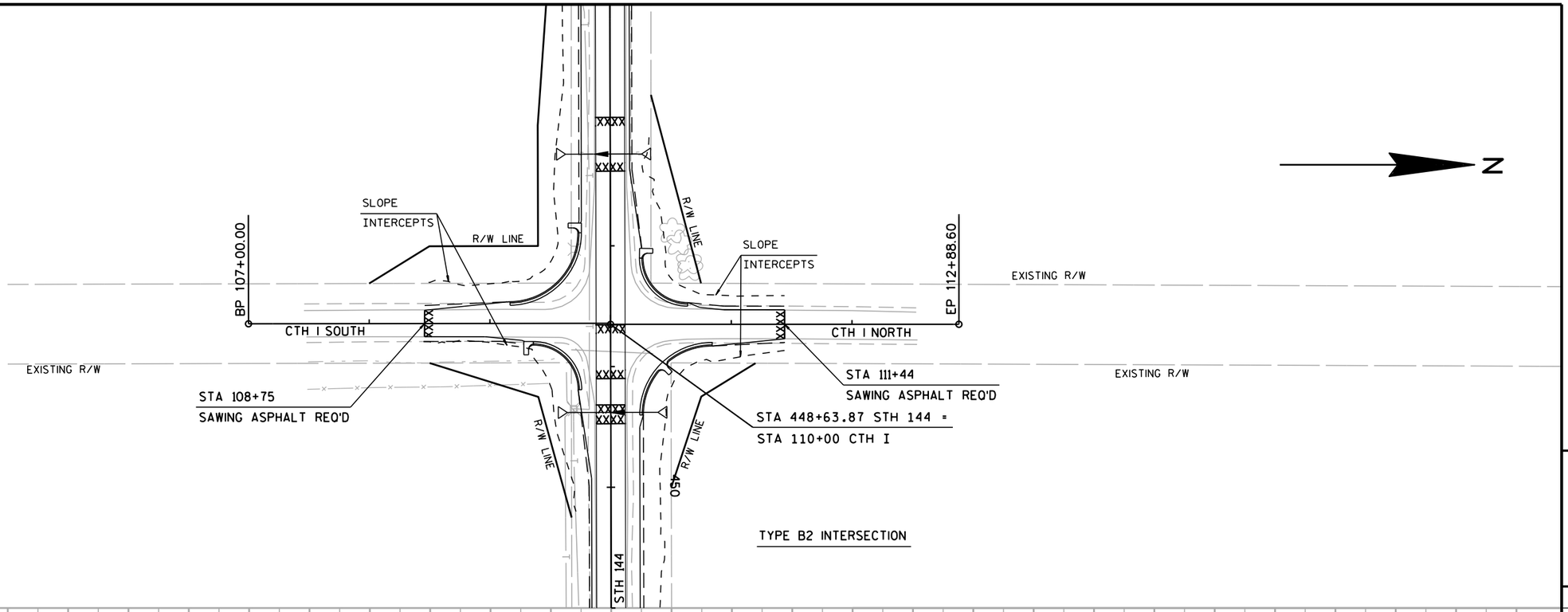


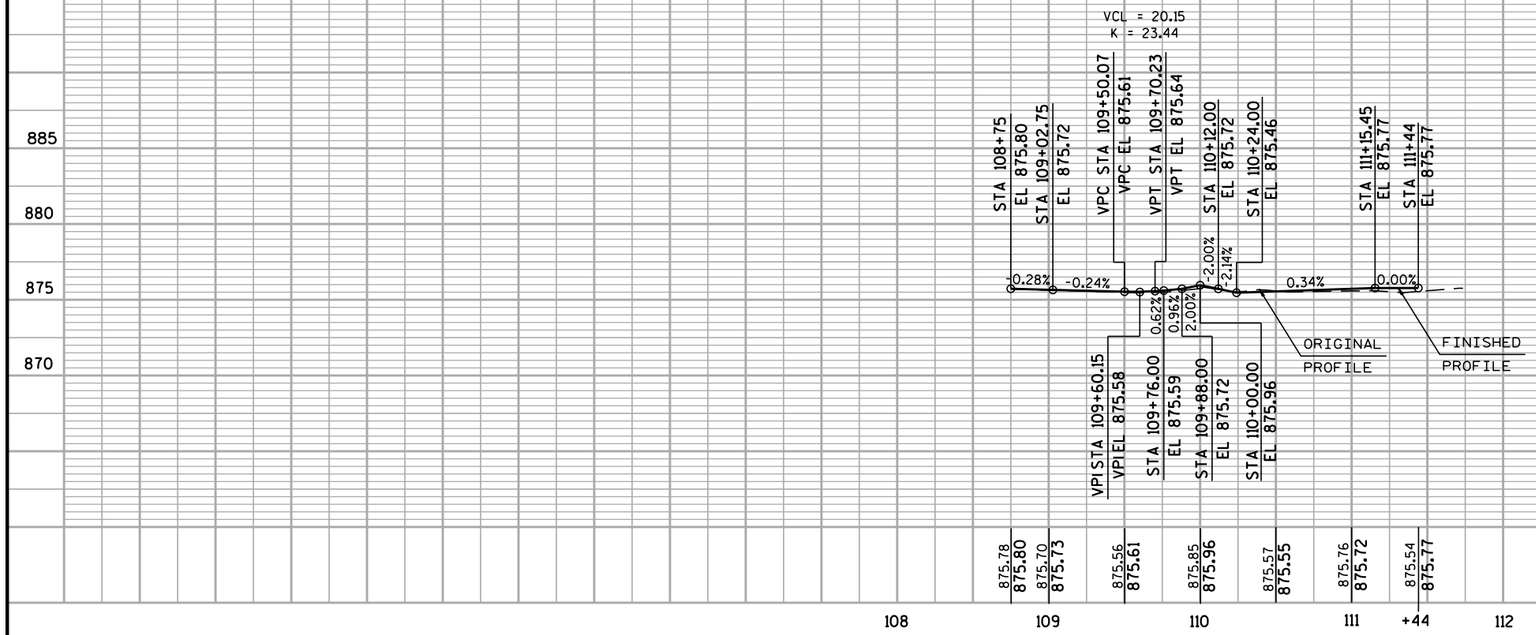
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN AND PROFILE - RIVERVIEW ROAD	SHEET	E





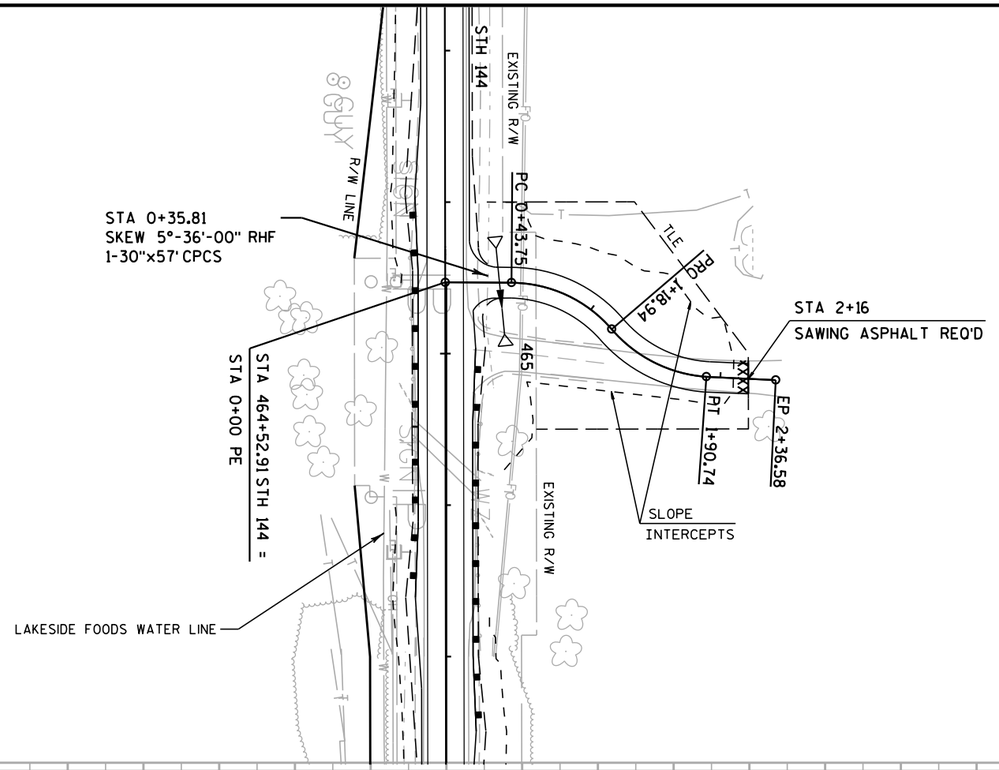
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN & PROFILE - CTH DE	SHEET	E





PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN AND PROFILE - CTH I (SOUTH AND NORTH)	SHEET	E

FILE NAME : F:\d3_652506\050110_pp.dgn PLOT DATE : 10-AUG-2016 08:59 PLOT BY : dotmzc PLOT NAME : 050110 pp.i PLOT SCALE : 100:1



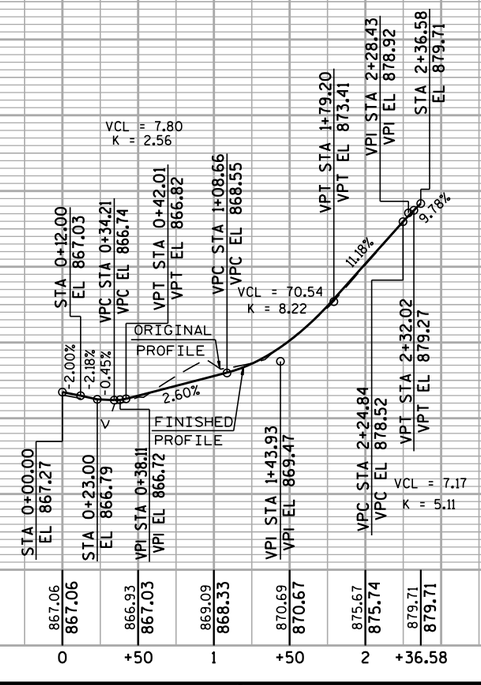
N

DRIVEWAY

PI STATION = 0+83.82
PI X,Y = 149330.46, 106317.64
DELTA = 49°01'22"
DEGREE = 65°11'52"
TANGENT = 40.07'
LENGTH = 75.19'
RADIUS = 87.88'
PC STATION = 0+43.75
PT STATION = 1+18.94

DRIVEWAY

PI STATION = 1+56.84
PI X,Y = 149389.63, 106368.41
DELTA = 45°17'11"
DEGREE = 63°04'16"
TANGENT = 37.89'
LENGTH = 71.80'
RADIUS = 90.84'
PC STATION = 1+18.94
PT STATION = 1+90.74

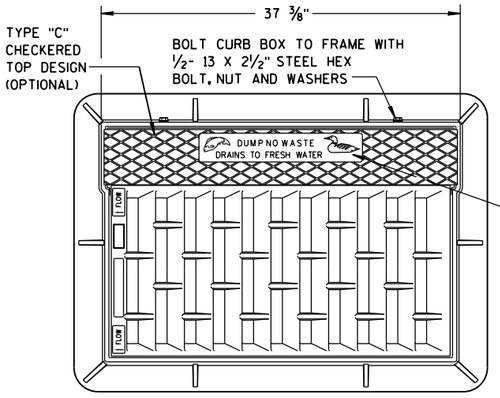


PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PLAN AND PROFILE - DRIVEWAY AT STA 464+52.91 LT	SHEET	E

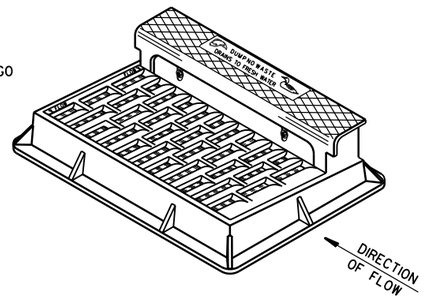
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
11B02-02	CONCRETE MEDIAN NOSE
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B15-09A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-09B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-09C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11D	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS
14B20-11E	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPES "F" AND "W"
14B24-07A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-07B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-07C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B27-01A	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01B	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01C	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B51-01A	ANCHOR POST ASSEMBLY TOP-MOUNTED
14B51-01B	ANCHOR POST ASSEMBLY TOP-MOUNTED
14B51-01C	ANCHOR POST ASSEMBLY TOP-MOUNTED
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	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
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C09-09A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)

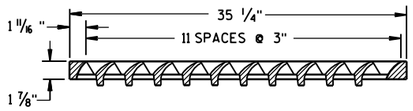
6

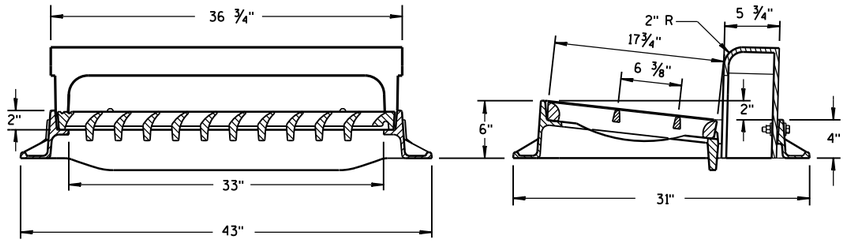


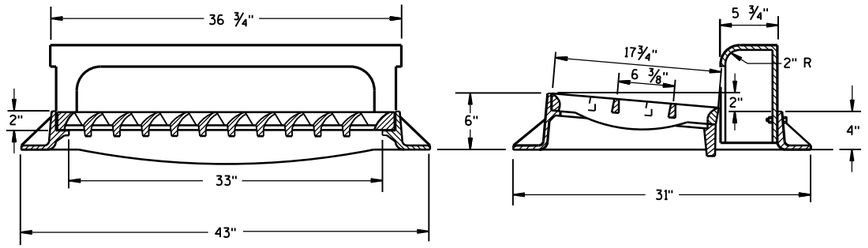
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

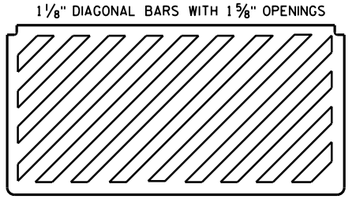






TYPE "H"

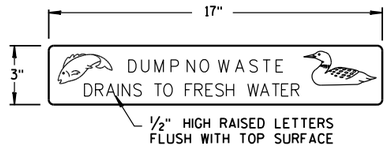
NOTE: EITHER CASTING IS ACCEPTABLE



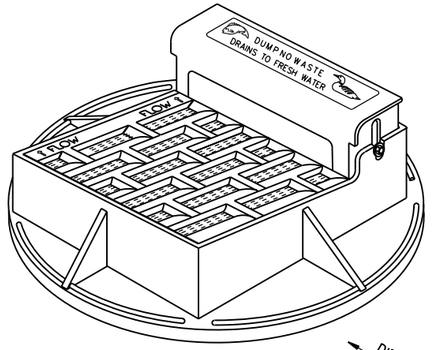
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

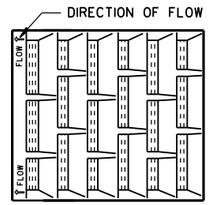
NOTE:
GRATE IS REVERSIBLE.

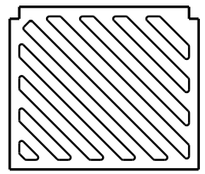
GENERAL NOTES

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.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

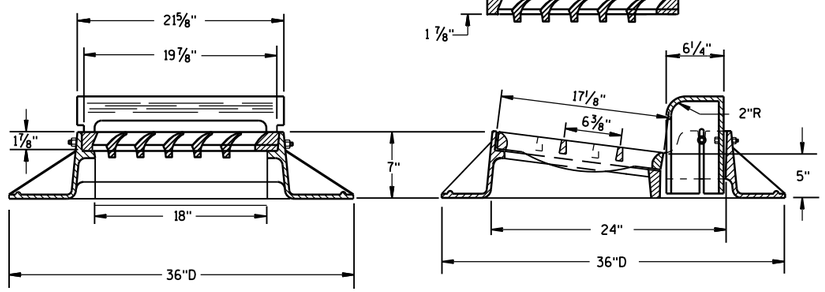




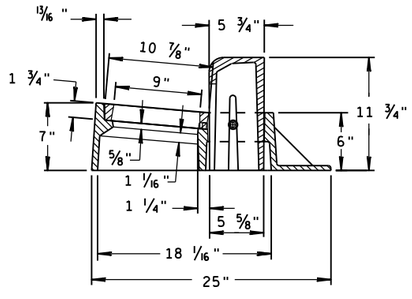
SPECIAL GRATE FOR TYPE "A" COVER

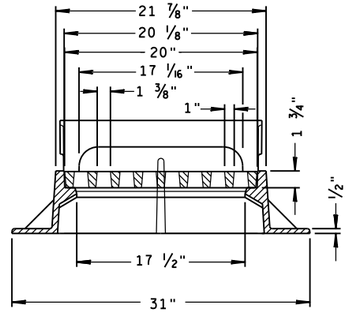
(MEASURES 19 3/4" X 17" X 1 7/8")

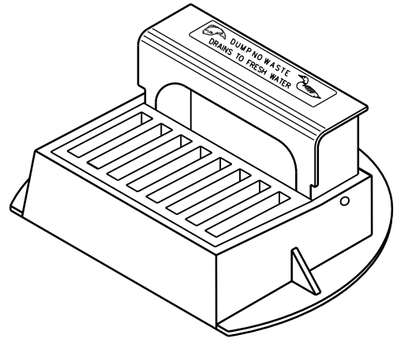
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

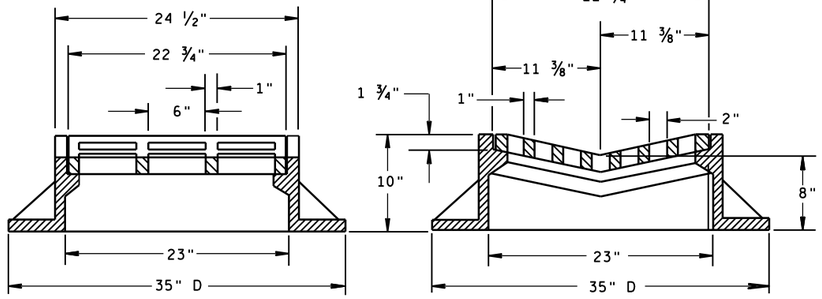
INLET COVERS
TYPE A, H, A-S, H-S & Z

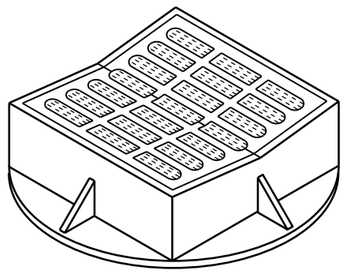
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

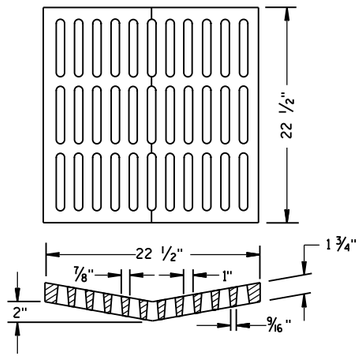
6

S.D.D. 8 A 5-19a



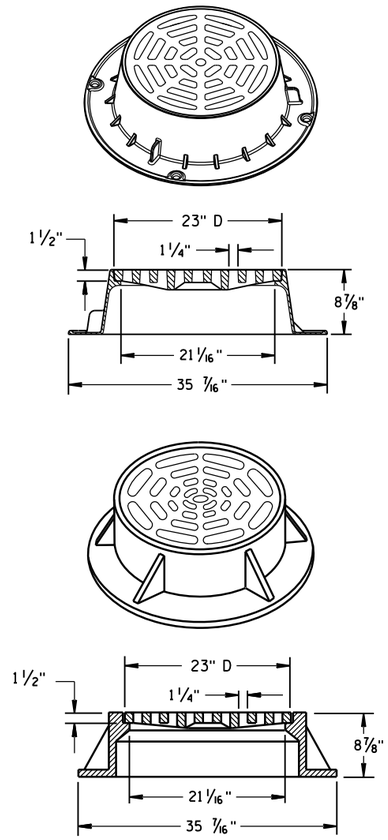


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

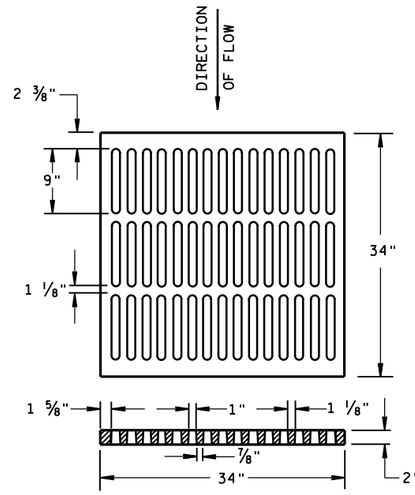
NOTE: EITHER CASTING IS ACCEPTABLE

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.

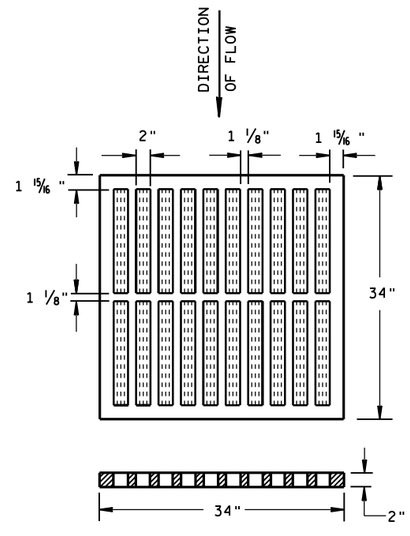
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



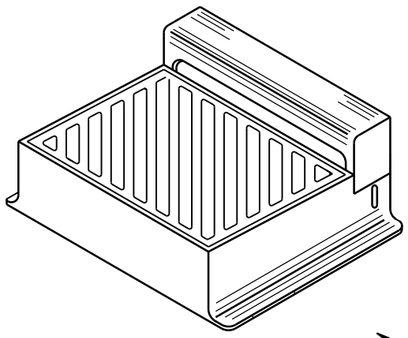
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

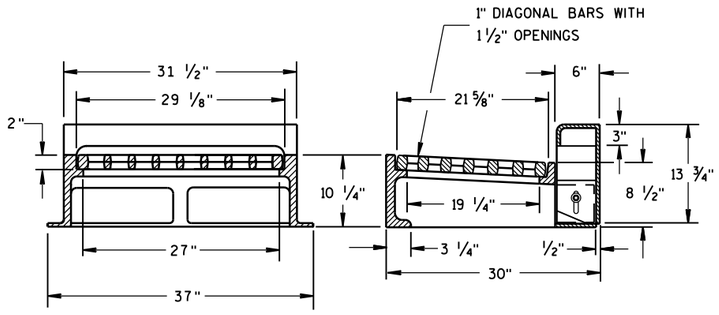


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

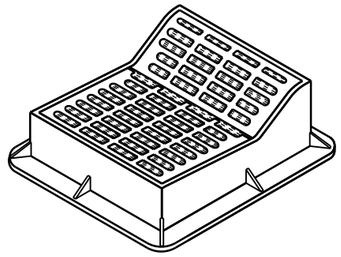
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

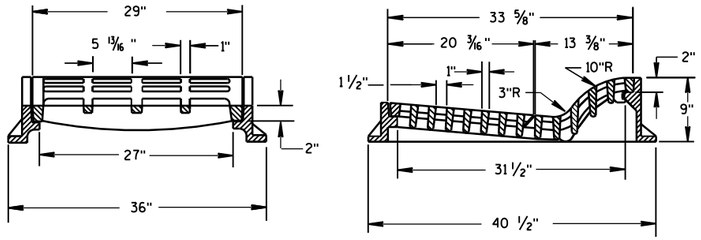
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

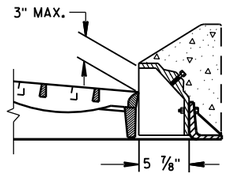
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

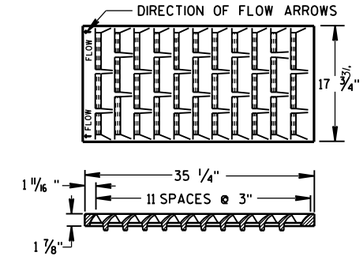
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

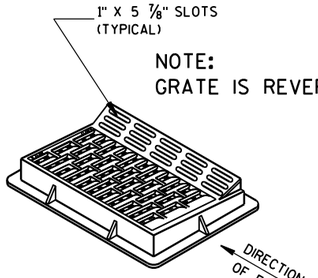
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

GENERAL NOTES

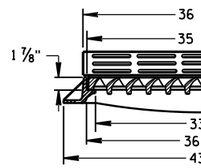
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

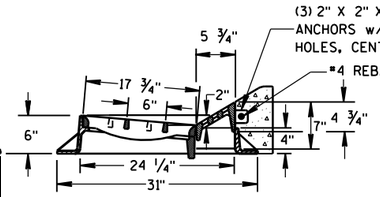
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





NOTE:
GRATE IS REVERSIBLE.

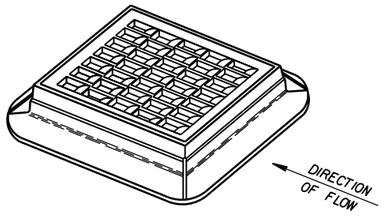


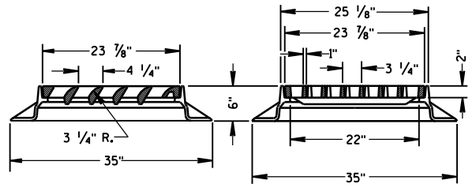


TYPE "HM"

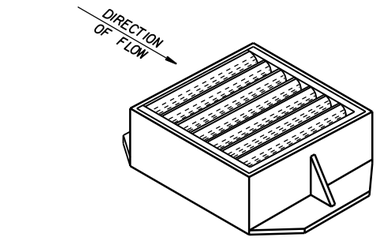
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

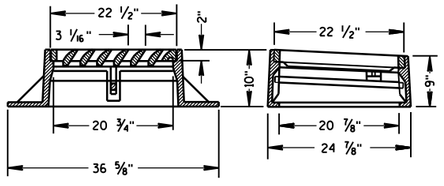
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



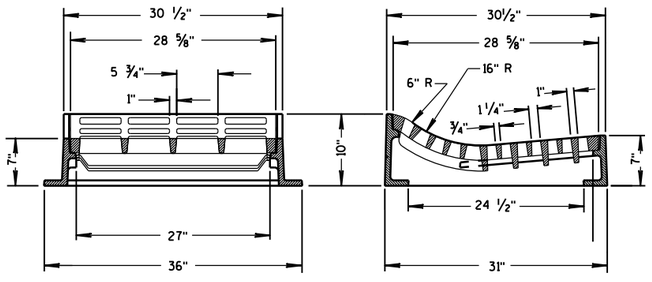


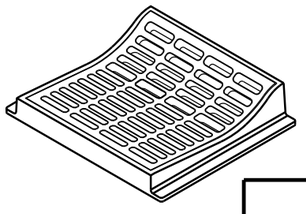
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

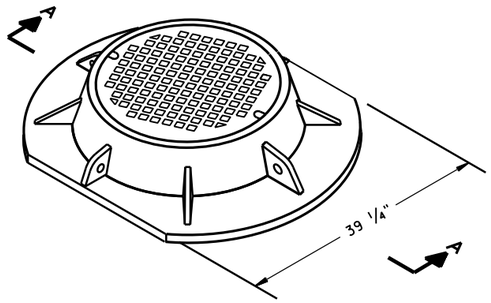
APPROVED
11/27/2013
DATE

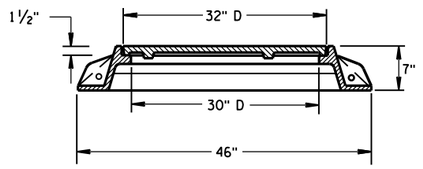
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

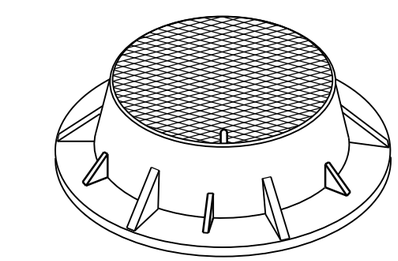
6

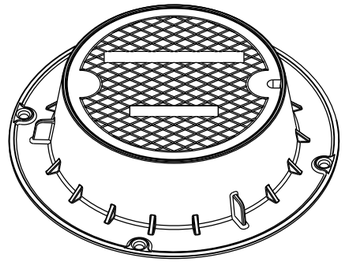
S.D.D. 8 A 5-19c

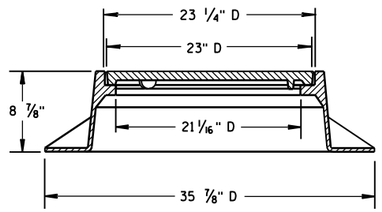


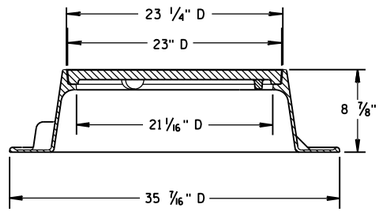


SECTION A-A
TYPE "K"









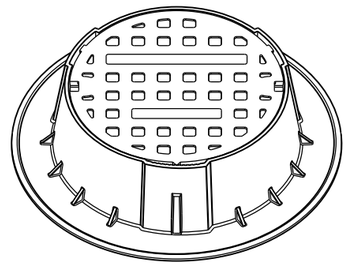
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

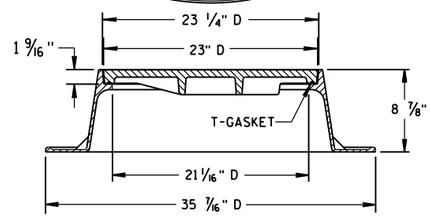
GENERAL NOTES

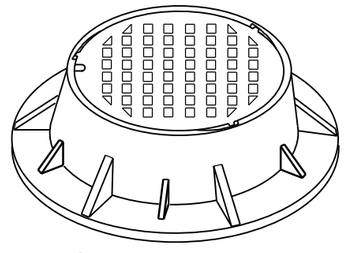
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

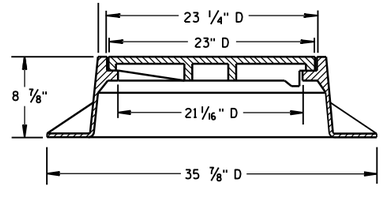
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

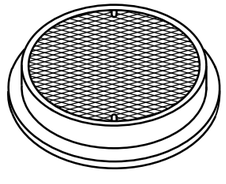


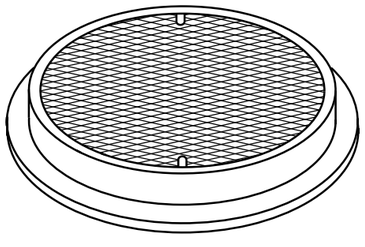


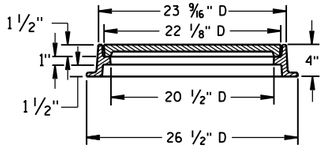




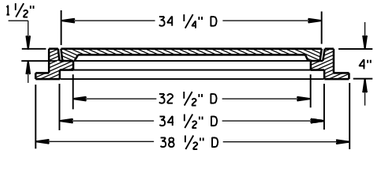
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



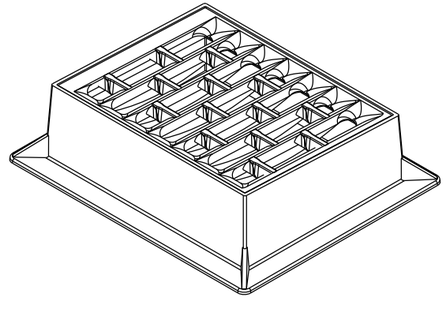


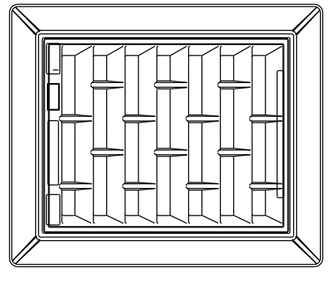


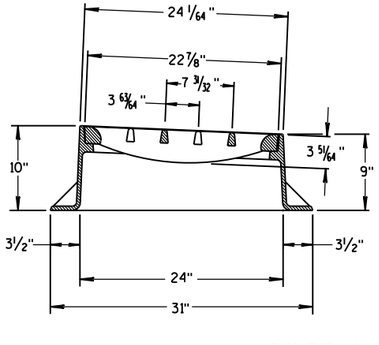
TYPE "L"

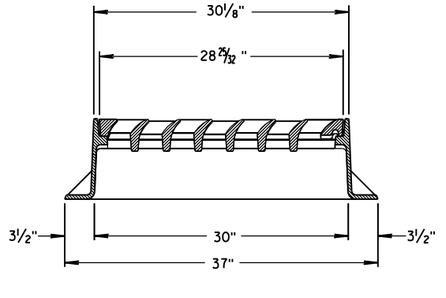


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
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APPROVED
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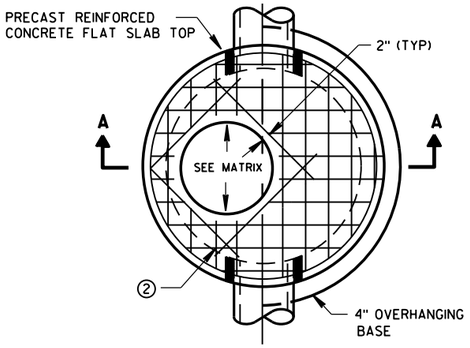
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

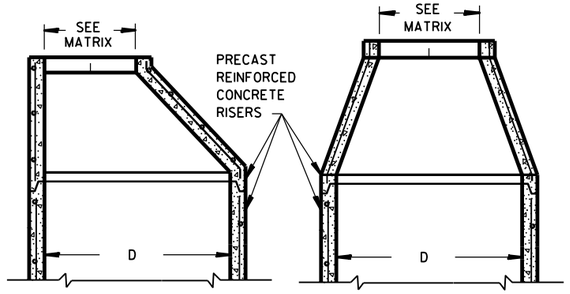
S.D.D. 8 A 5-19d

6

S.D.D. 8 A 5-19d

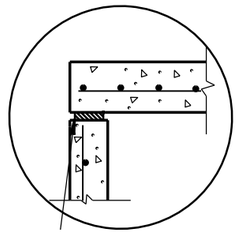


PLAN VIEW CIRCULAR OPENING

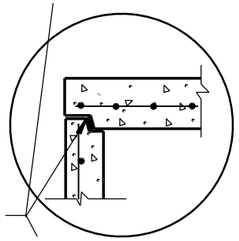


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

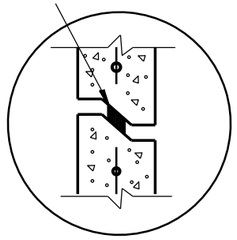


TOP WITH PLAIN END JOINT



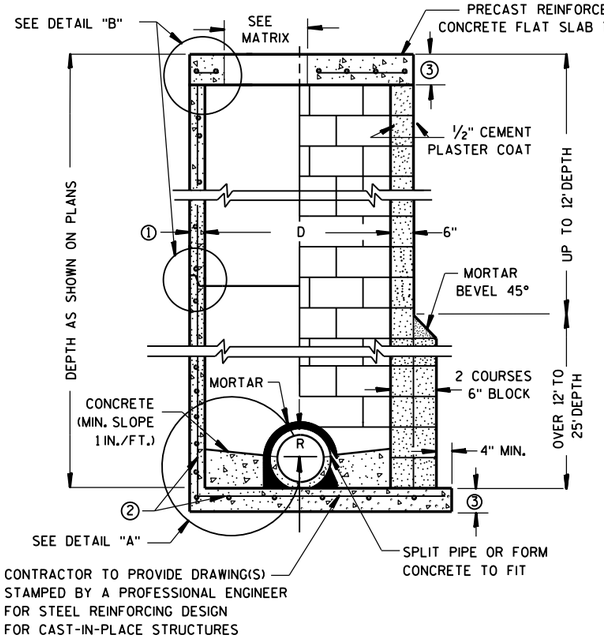
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



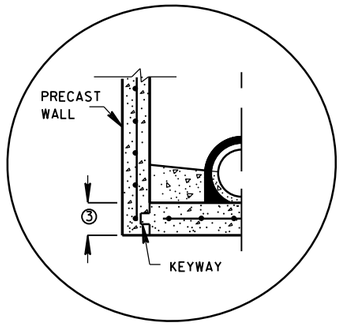
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

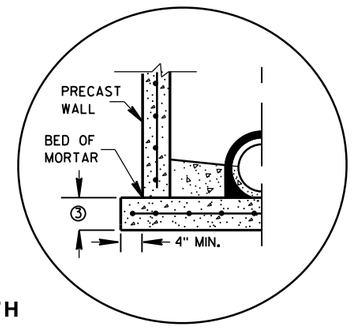


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

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

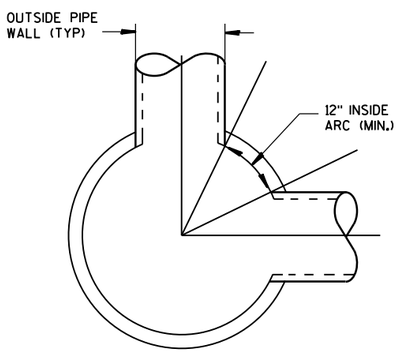


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

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

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

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

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

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

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

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

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

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

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

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

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

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

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

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

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

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

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

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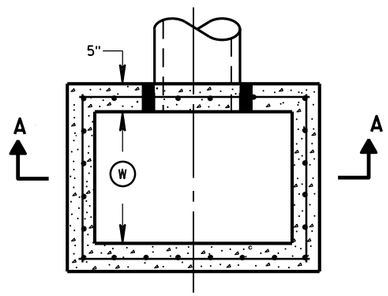
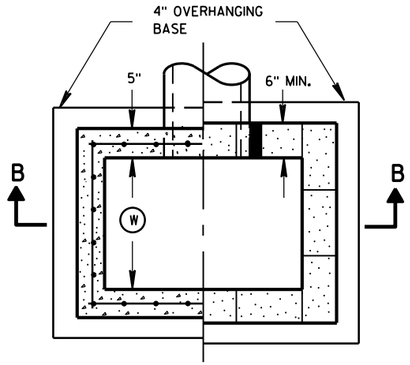
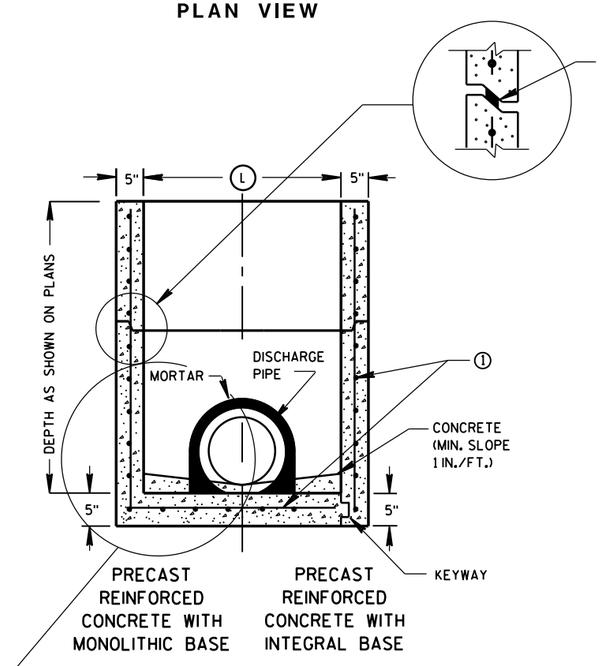


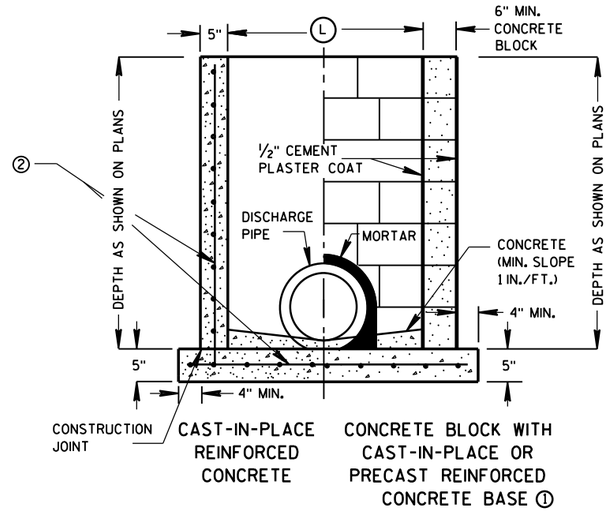
PLAN VIEW



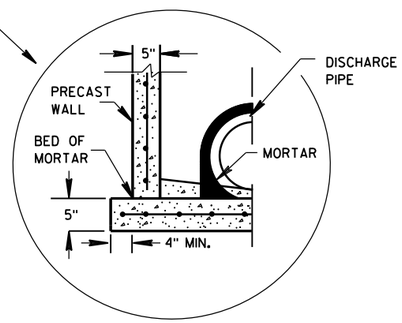
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

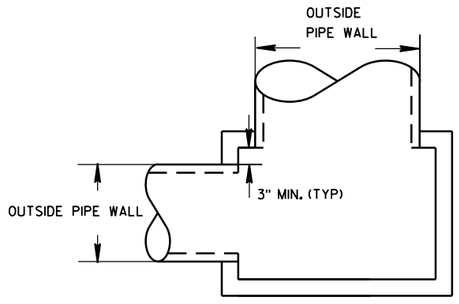
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

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



DETAIL "A"

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

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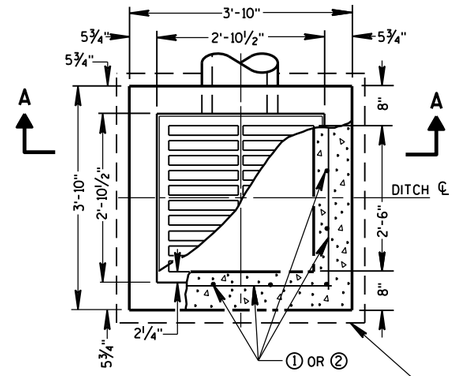
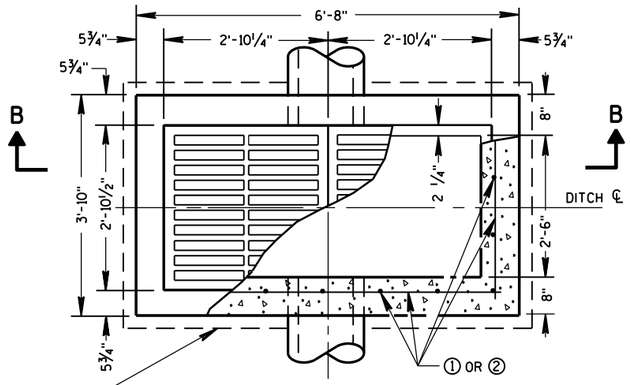
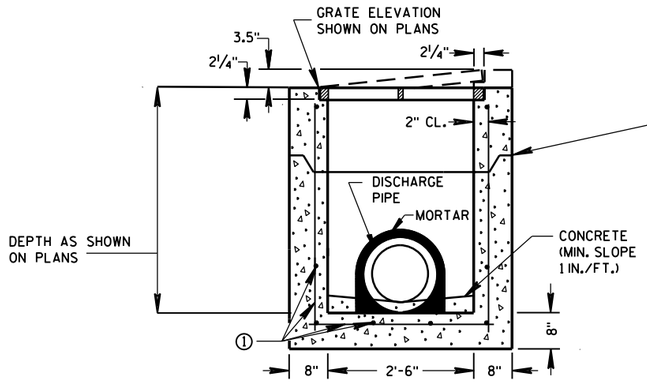


PLAN VIEW

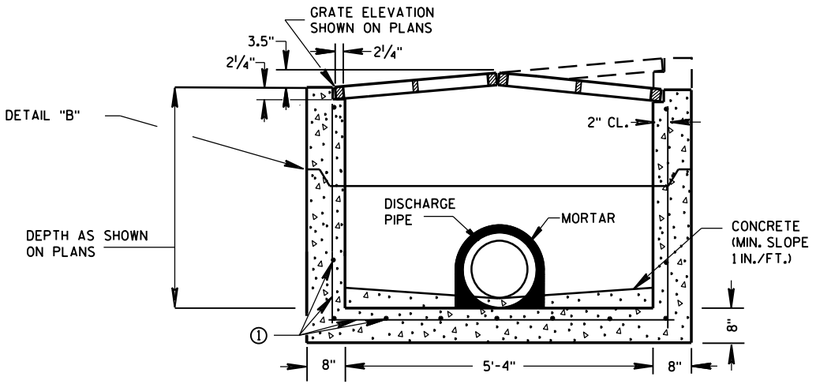


PLAN VIEW

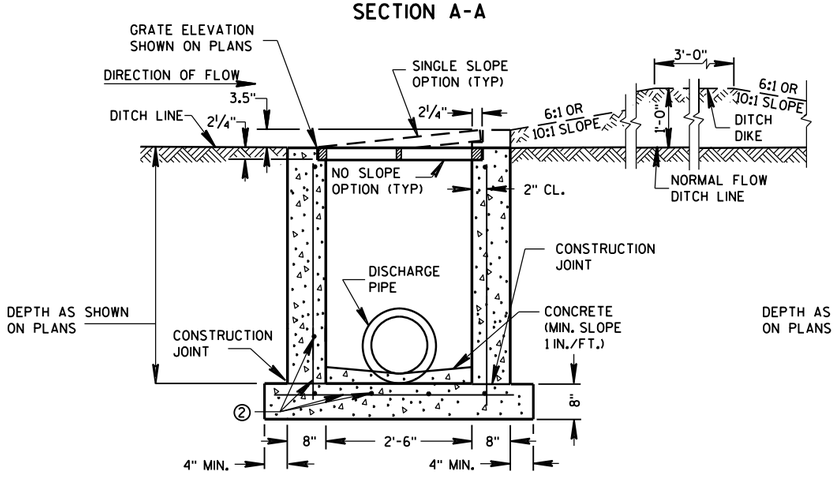
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



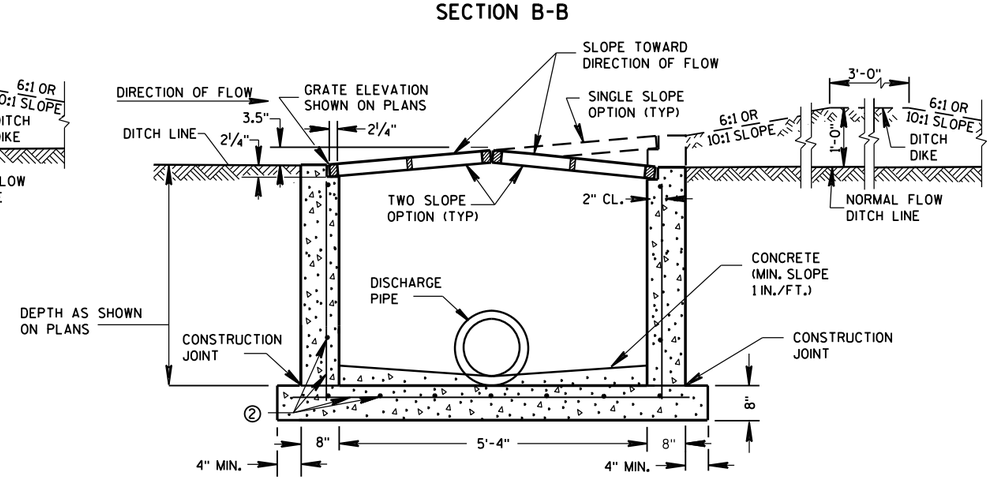
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

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

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

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

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

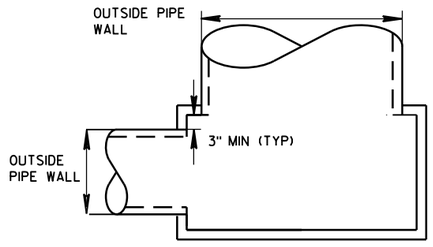
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

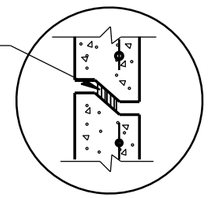
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

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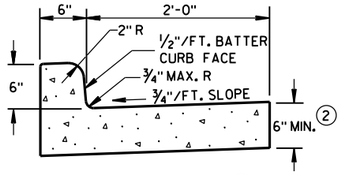
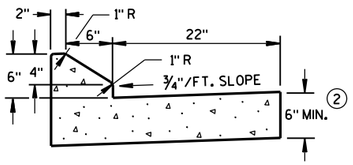
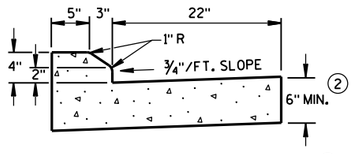


TYPES A & D ①

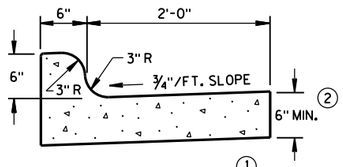


6" SLOPED CURB TYPES G & J ①

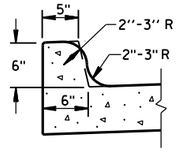


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

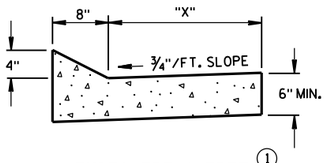


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

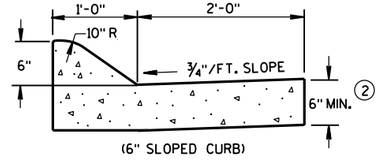
CONCRETE CURB & GUTTER 30"



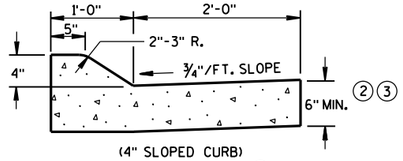
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

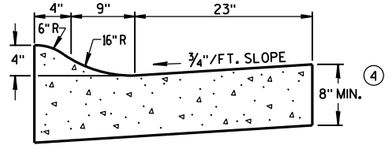


(6" SLOPED CURB)



(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.

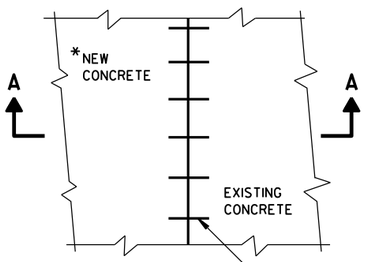
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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.

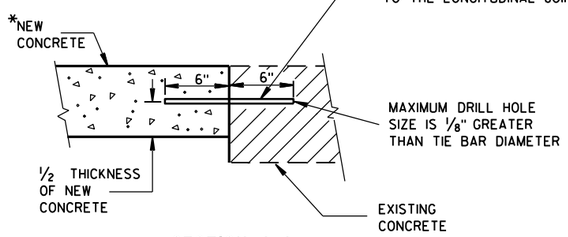
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

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



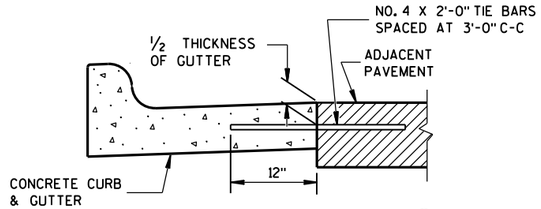
PLAN VIEW

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

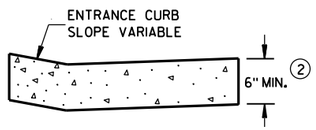


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

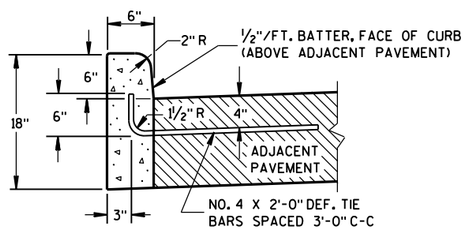


TYPICAL TIE BAR LOCATION ①

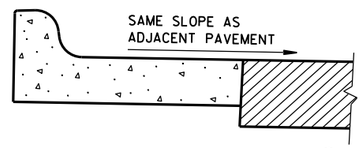


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

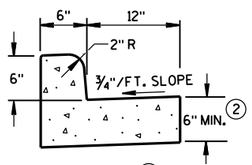


① TYPES A & D



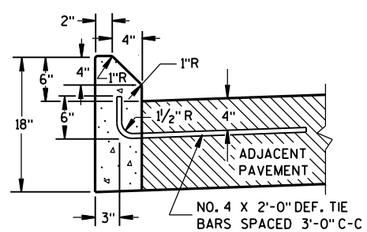
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



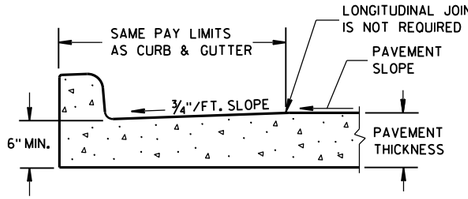
① TYPES A & D

CONCRETE CURB & GUTTER 18"

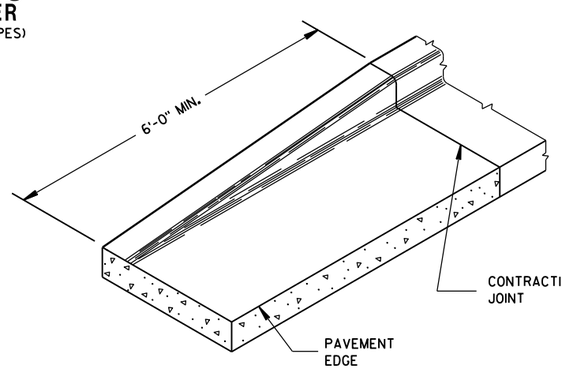


① TYPES G & J

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

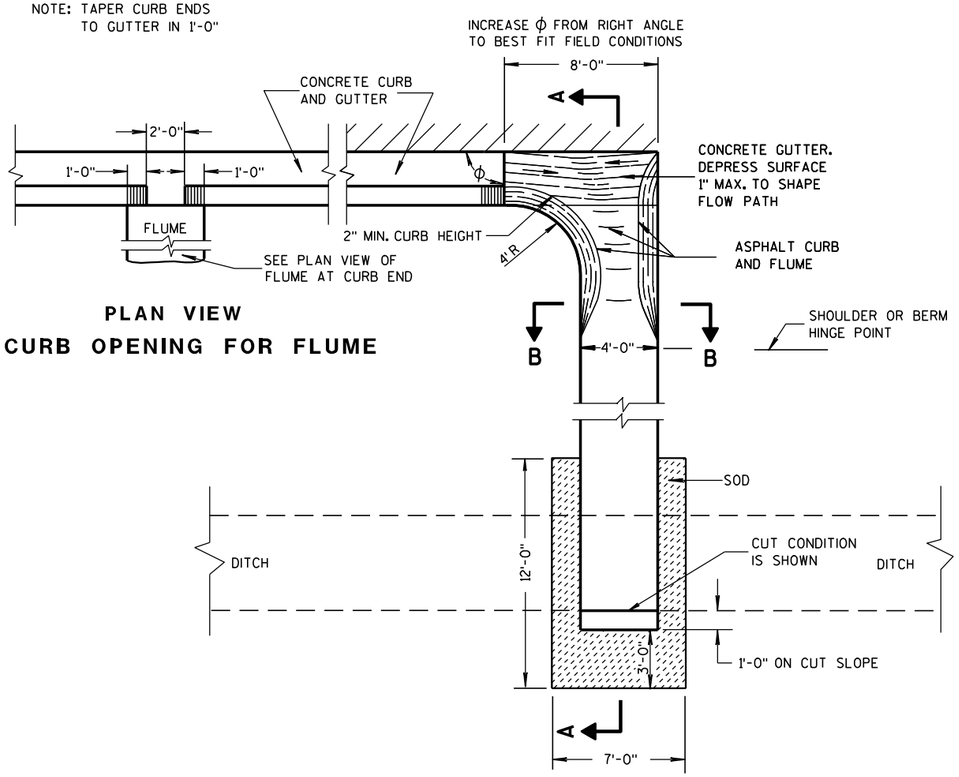
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

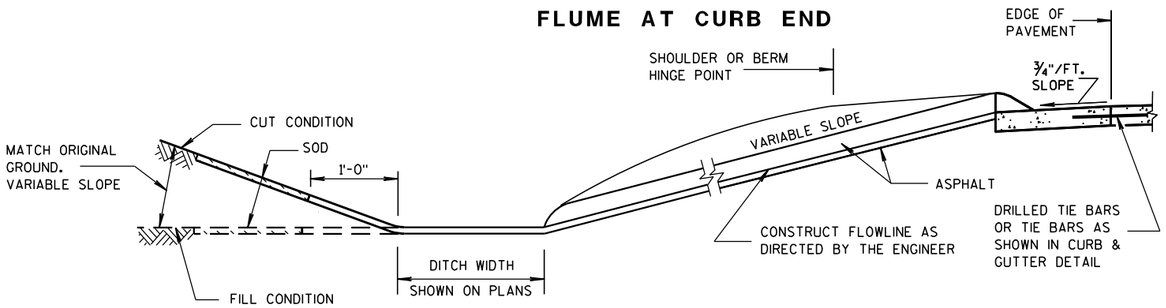
S.D.D. 8 D 1-19

ASPHALTIC FLUME

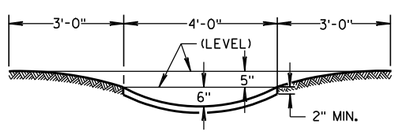


PLAN VIEW
CURB OPENING FOR FLUME

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.

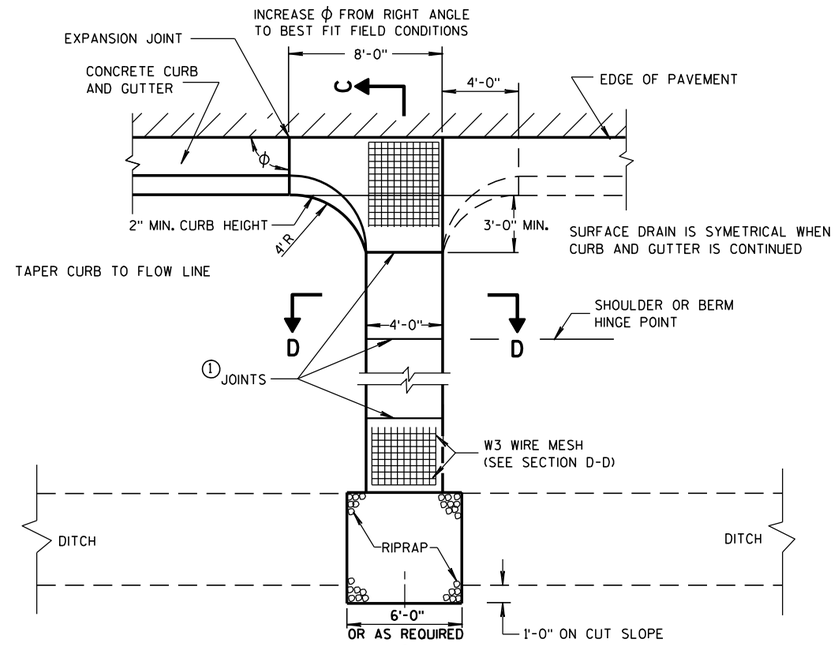
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

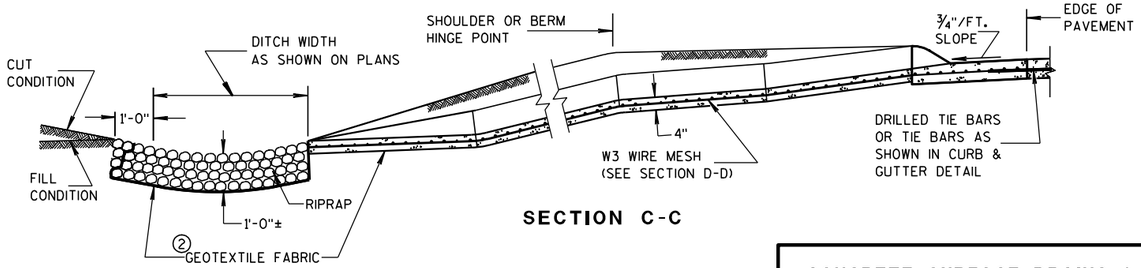
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

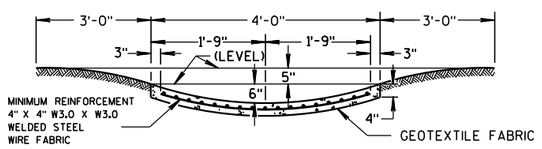
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

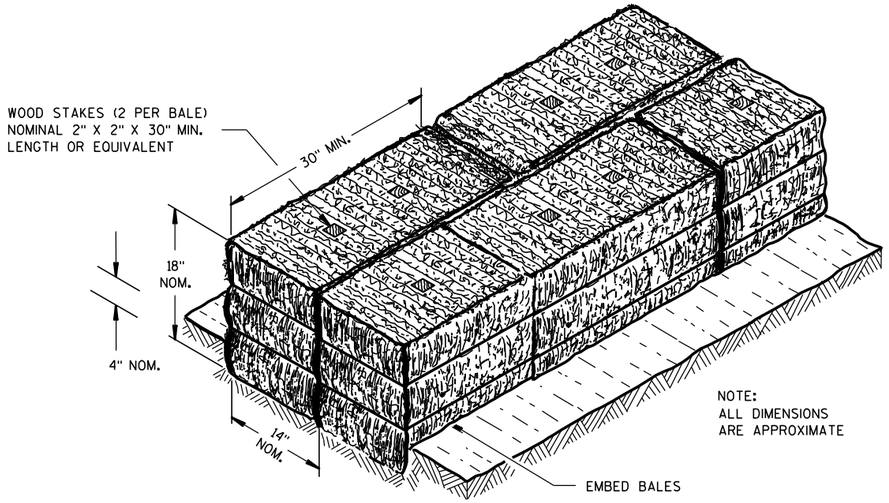
APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

6

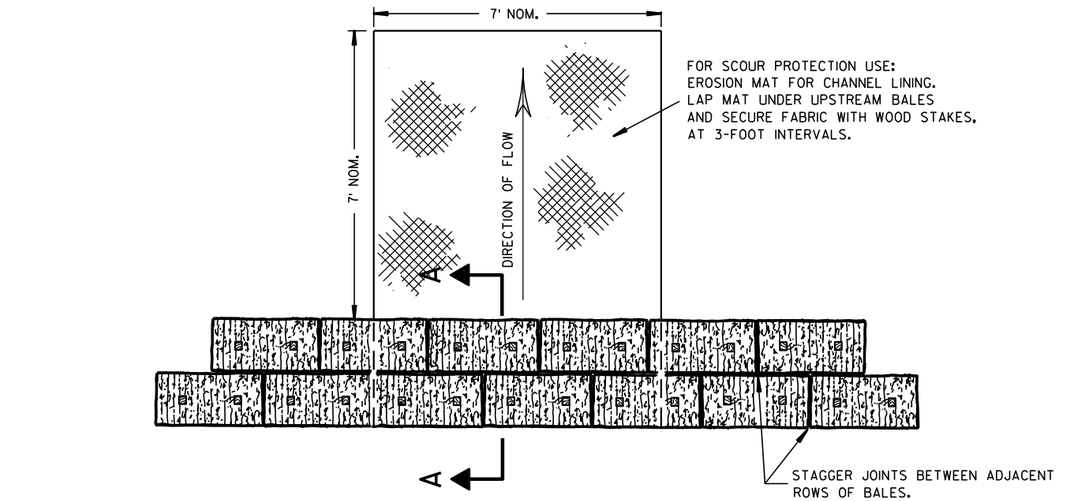
S.D.D. 8 D 4-5

6

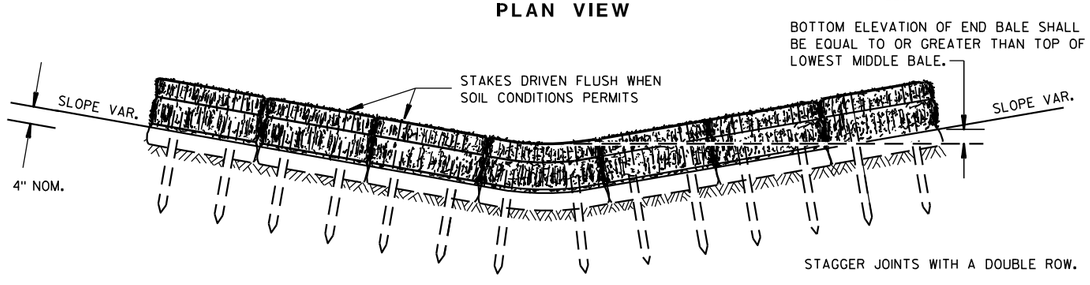
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



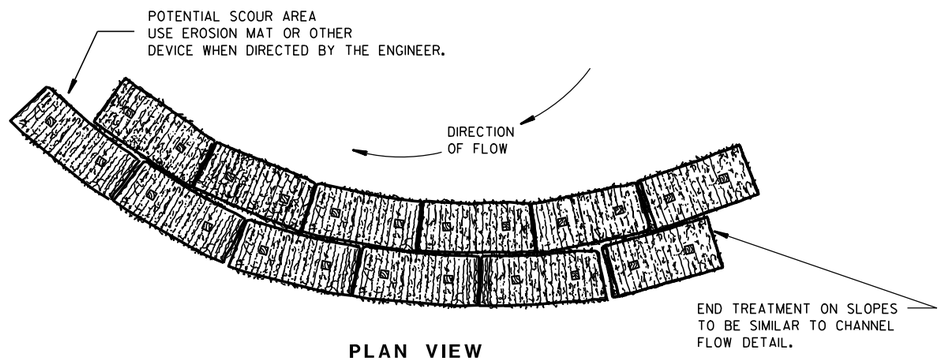
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

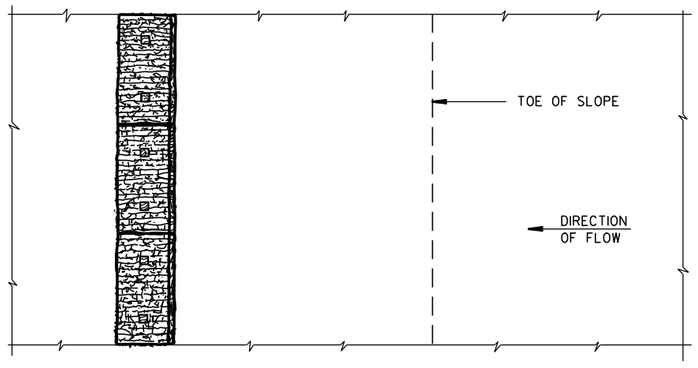
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

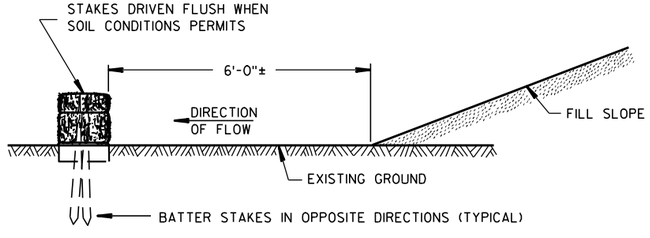


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

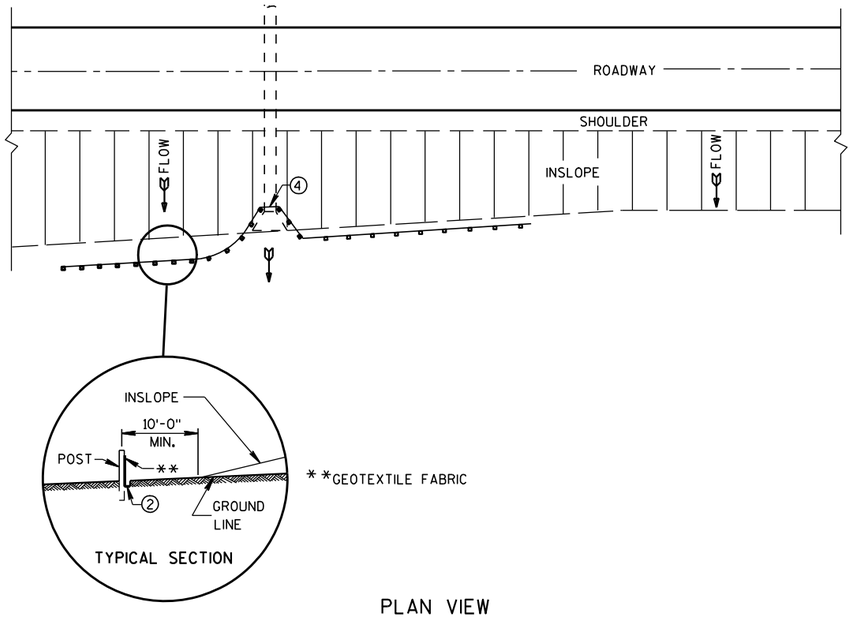
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

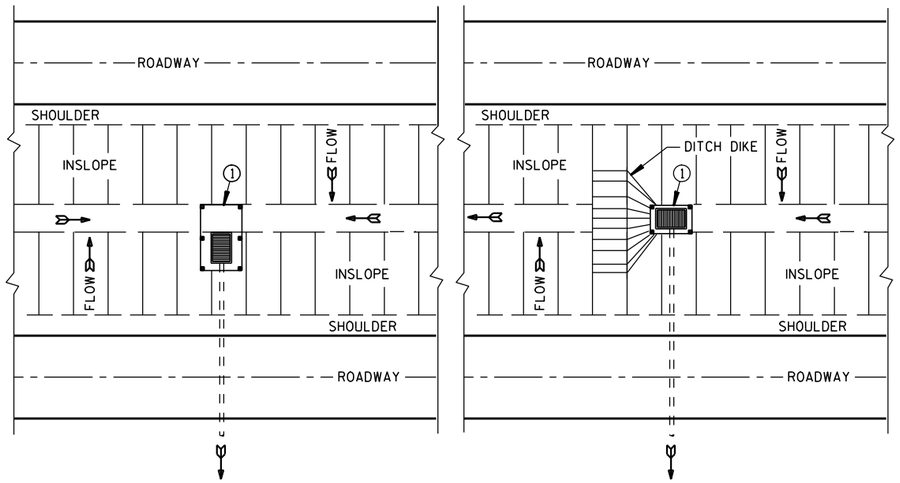
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



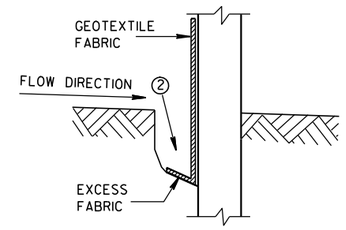
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

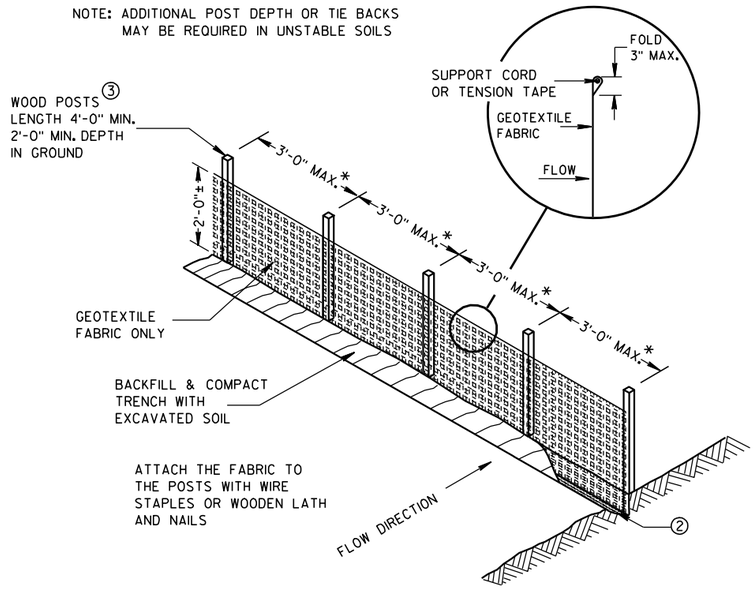
GENERAL NOTES

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

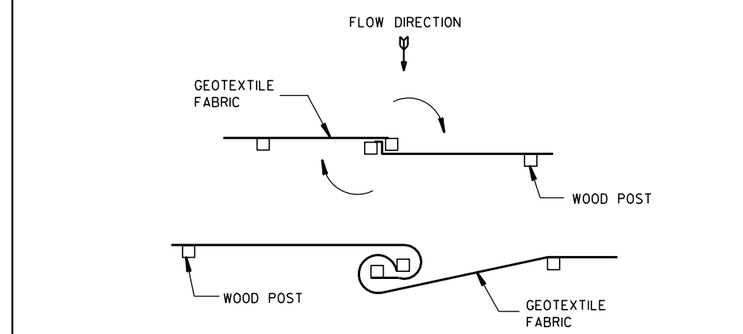
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



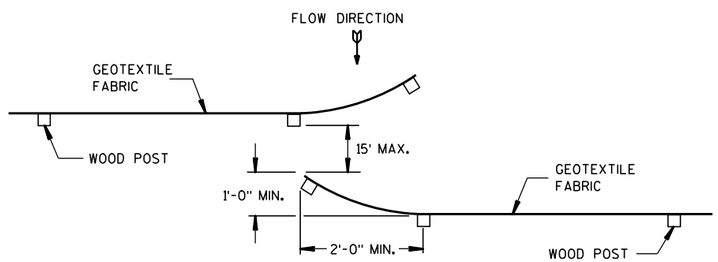
TRENCH DETAIL



SILT FENCE

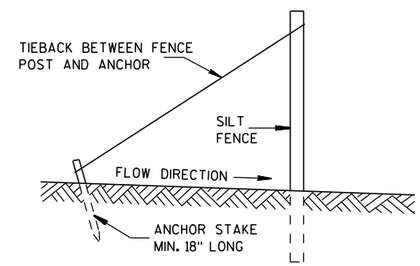


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

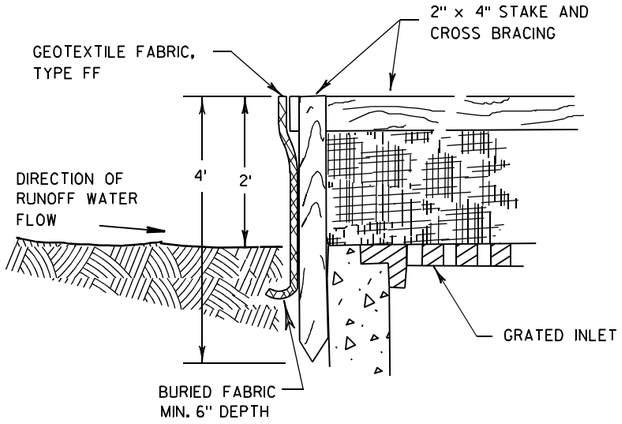
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

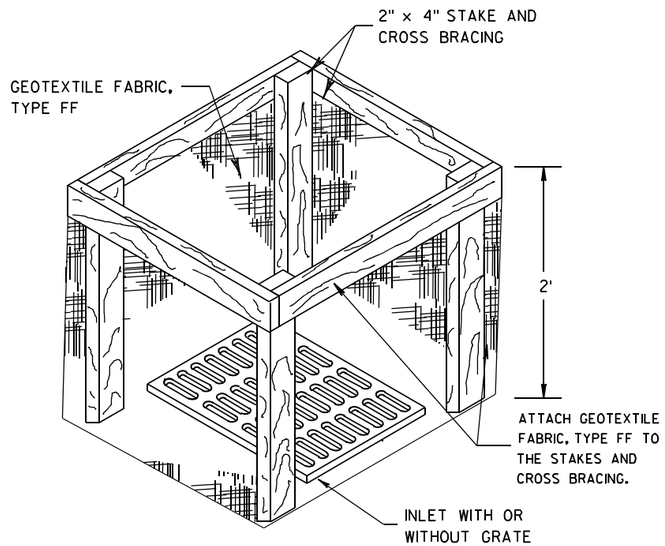
6

S.D.D. 8 E 9-6

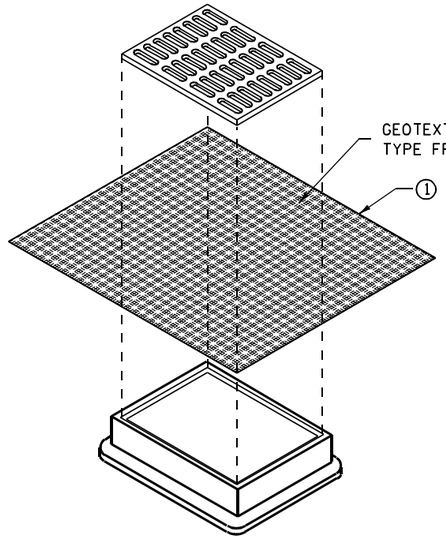
6

S.D.D. 8 E 9-6



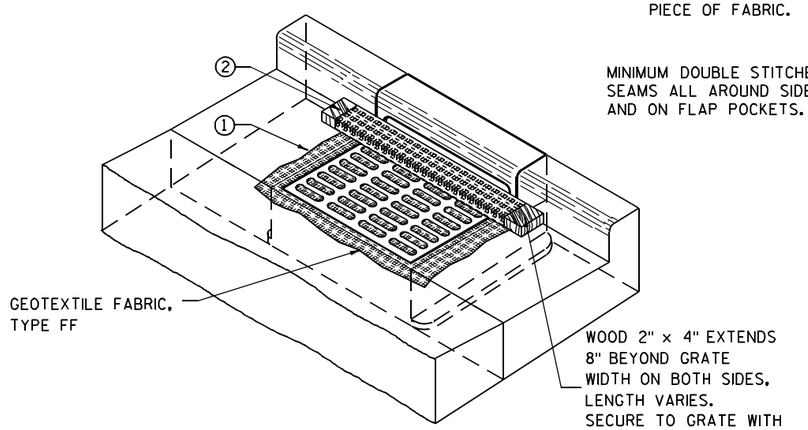


INLET PROTECTION, TYPE A

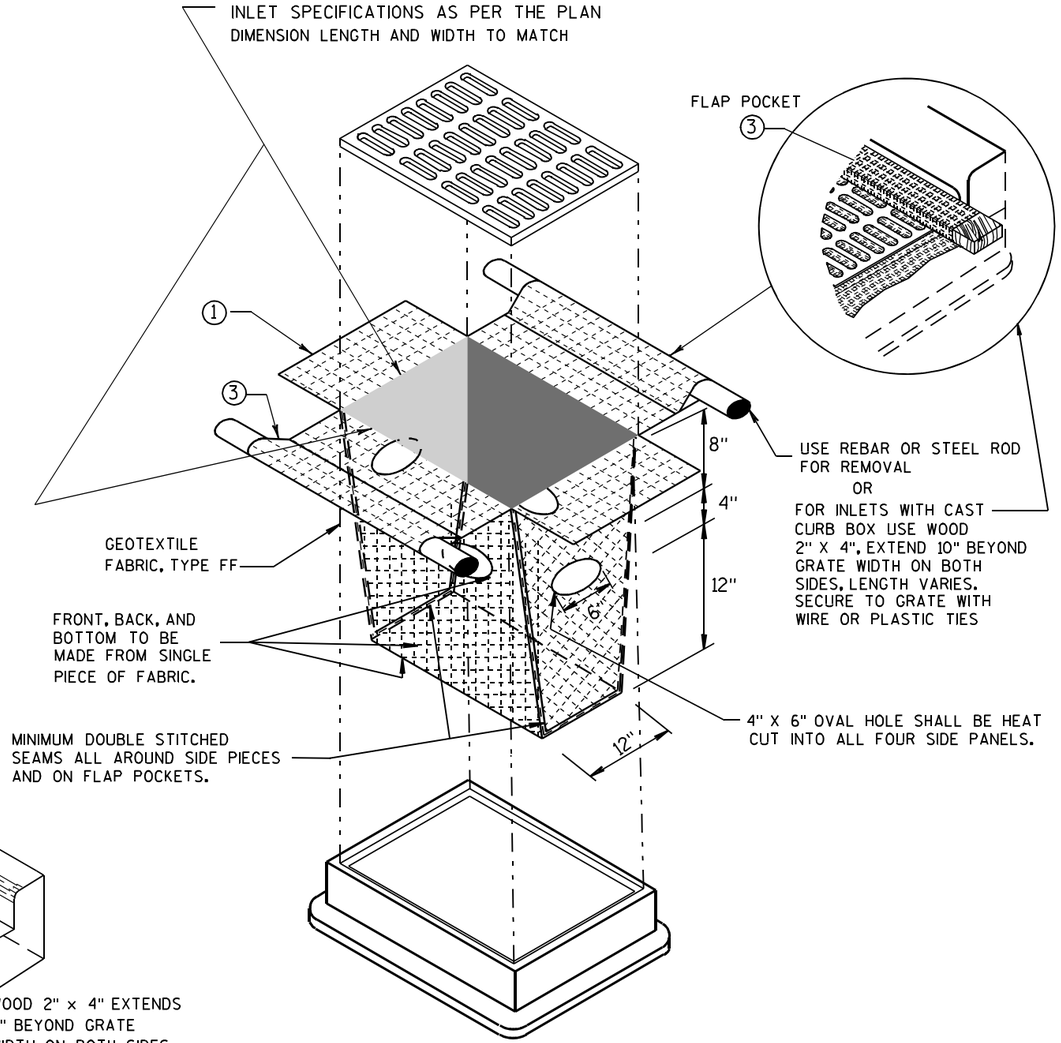


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

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

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

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

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2

METAL APRON ENDWALLS

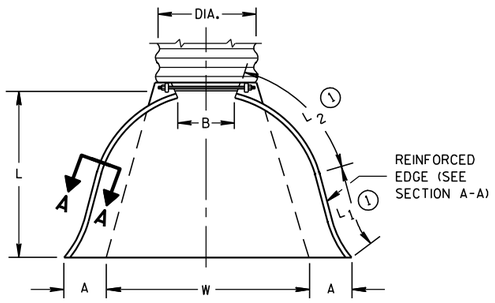
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

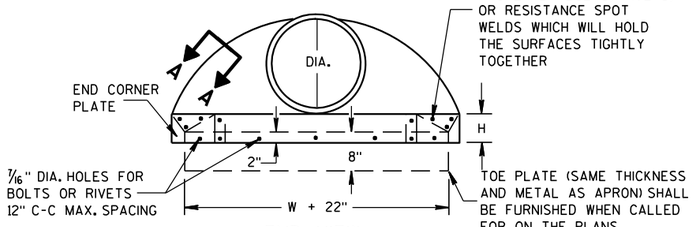
REINFORCED CONCRETE APRON ENDWALLS

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

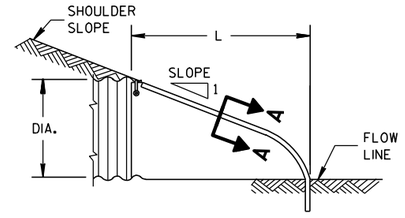
*MINIMUM
**MAXIMUM



PLAN VIEW

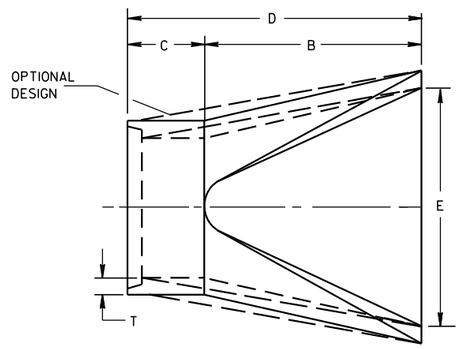


END VIEW

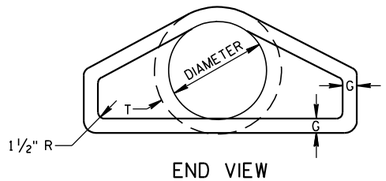


SIDE ELEVATION

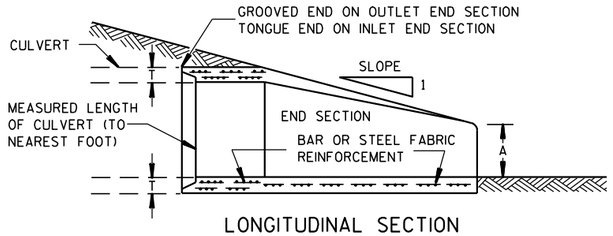
METAL ENDWALLS



PLAN

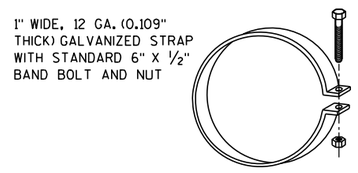


END VIEW



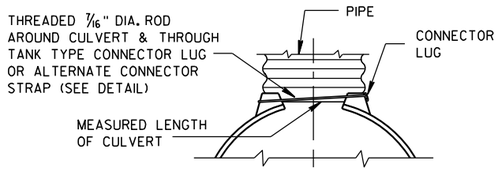
LONGITUDINAL SECTION

CONCRETE ENDWALLS

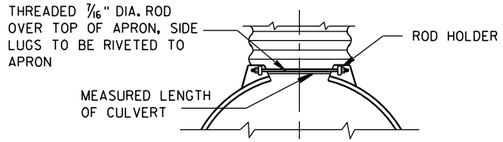


ALTERNATE FOR TYPE 1 CONNECTION

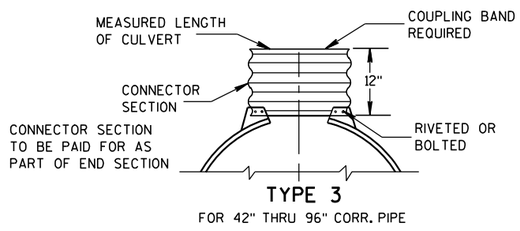
END SECTION CONNECTOR STRAP



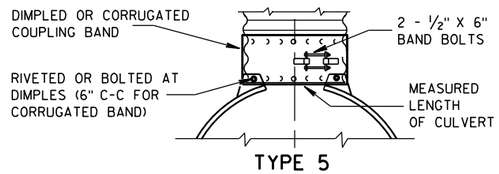
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

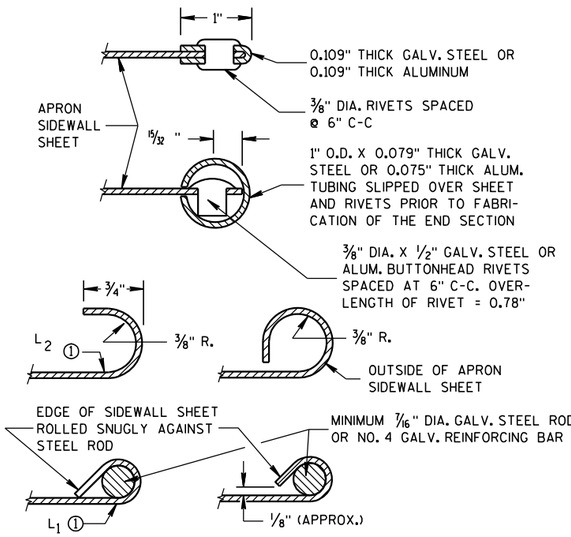
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

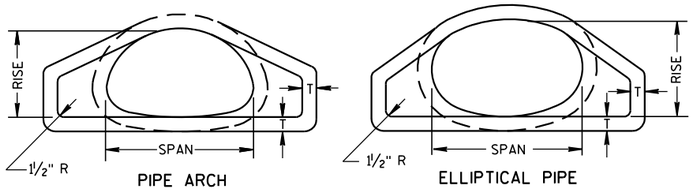
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

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

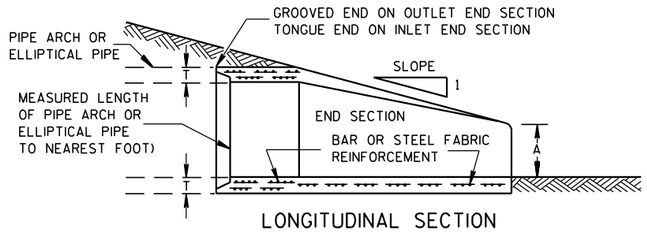
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

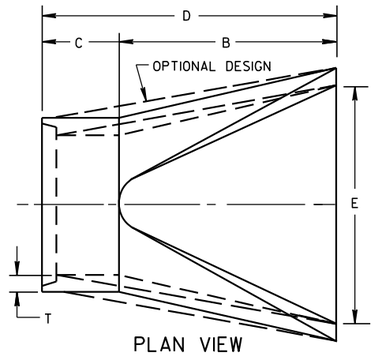
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



END VIEW

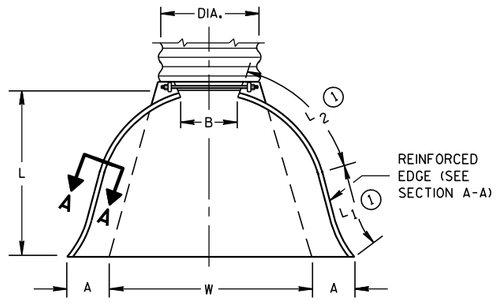


LONGITUDINAL SECTION

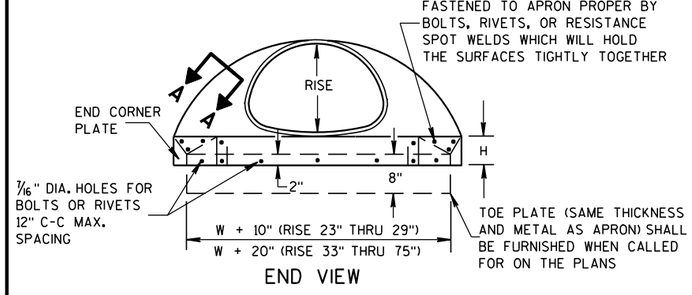


PLAN VIEW

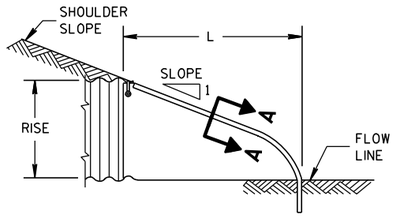
CONCRETE ENDWALLS



PLAN VIEW

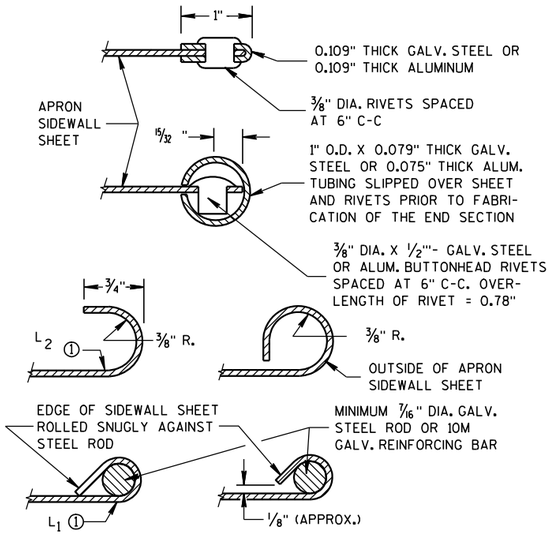


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

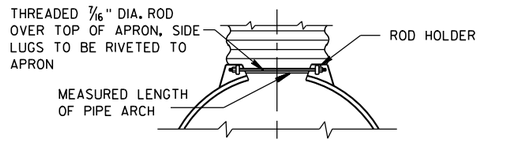
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

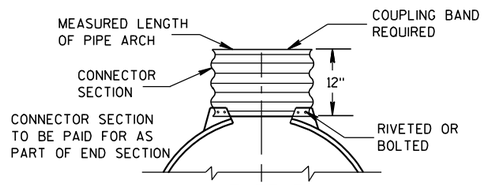
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



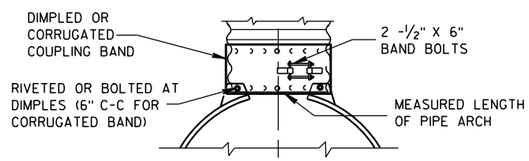
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

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

CONNECTION DETAILS

GENERAL NOTES

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

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH 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 ARCH 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 77" X 52" THROUGH 112" X 75" 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 ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

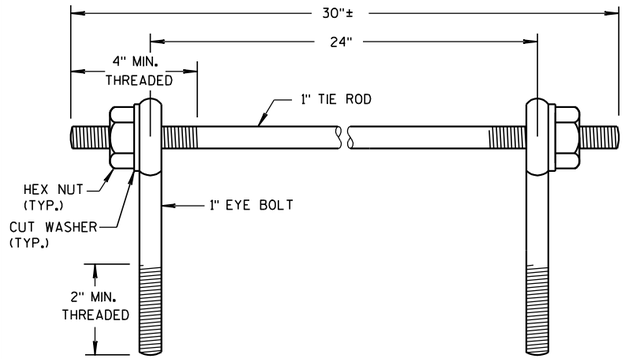
FHWA

6

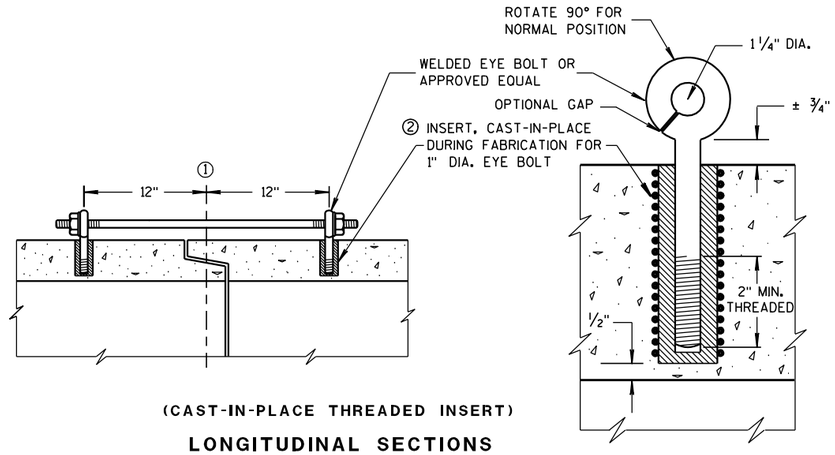
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



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.

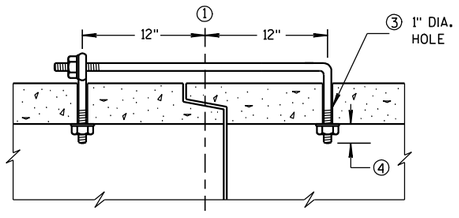
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

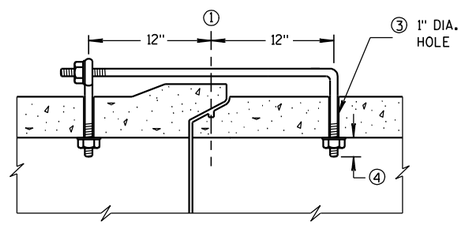
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

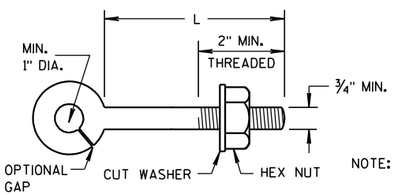


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

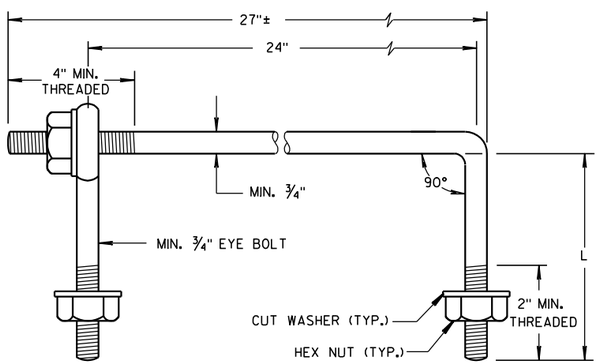
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

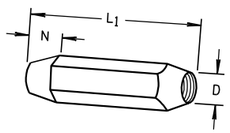
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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



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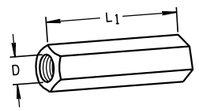
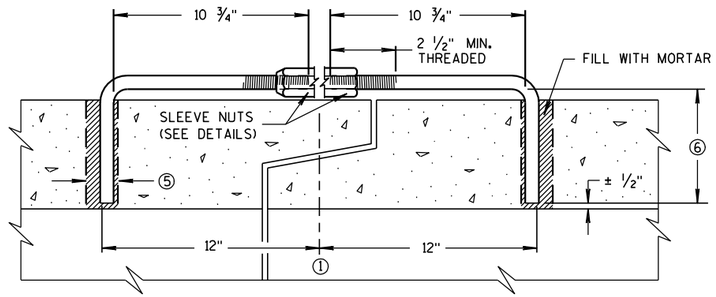


PLAIN

RIGHT AND LEFT THREADS

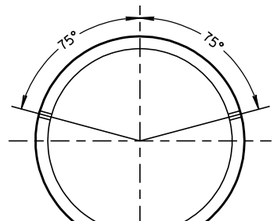
SLEEVE NUTS



LONGITUDINAL SECTION

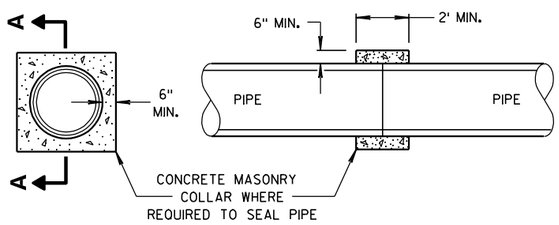
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
FHWA

6

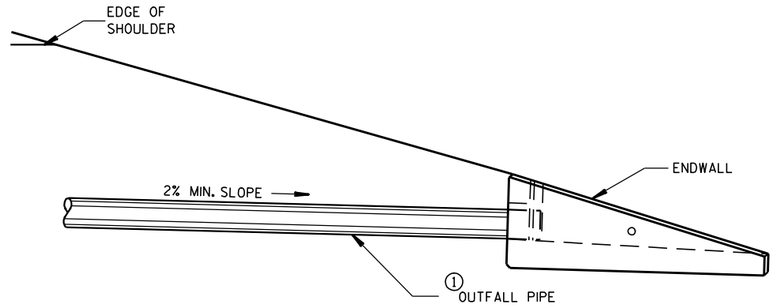
S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

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.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

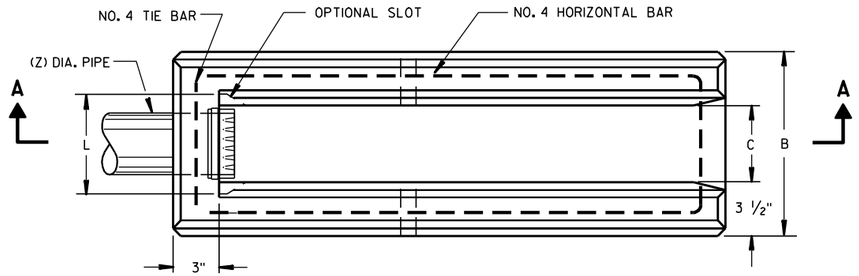
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

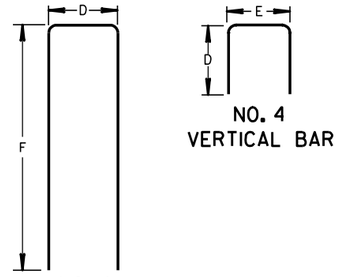
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

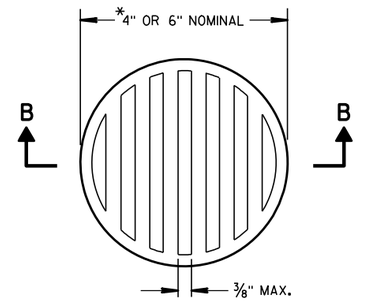
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



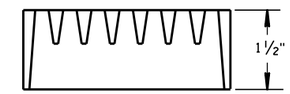
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS



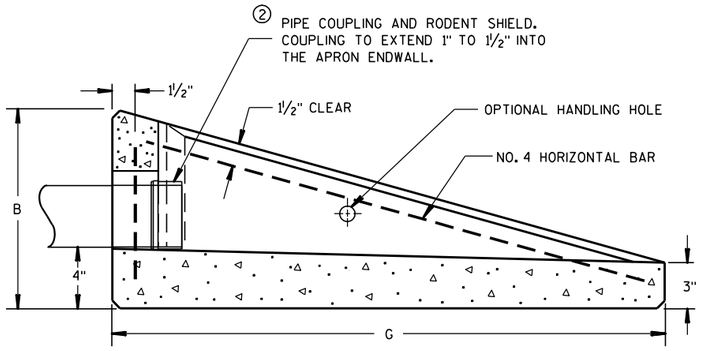
NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



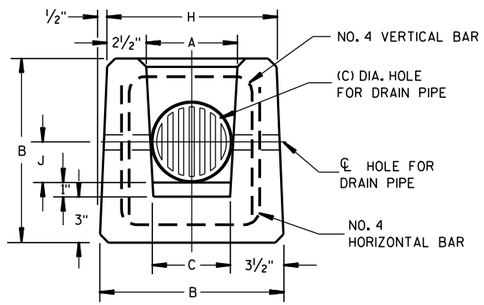
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

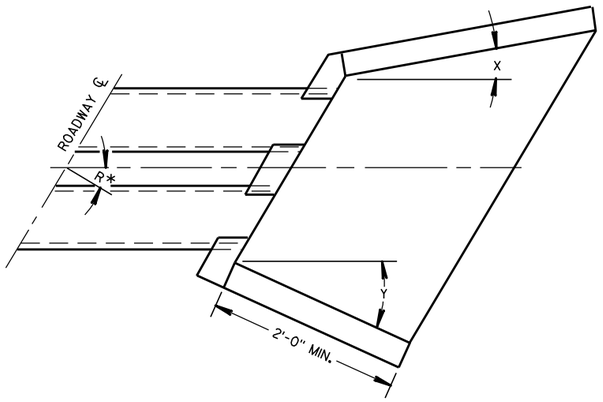
APPROVED
3/10/98 DATE
/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 6-4

6

S.D.D. 8 F 6-4



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

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

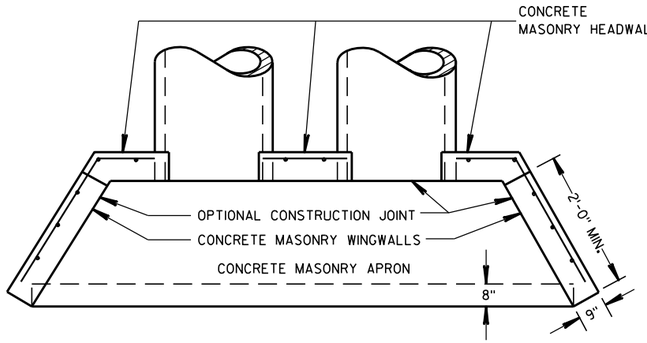
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

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

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

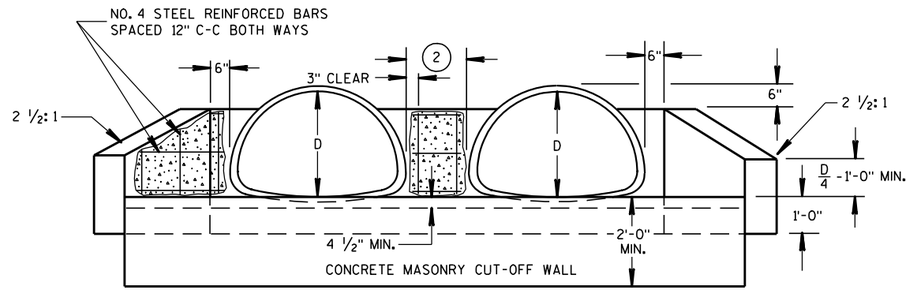
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



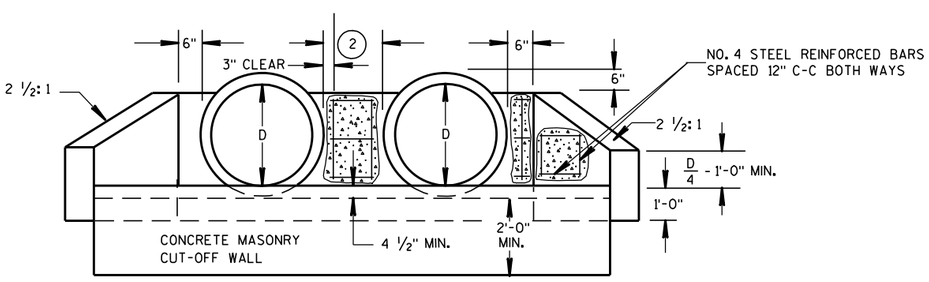
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



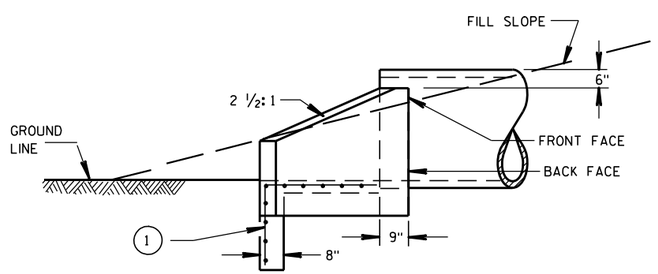
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

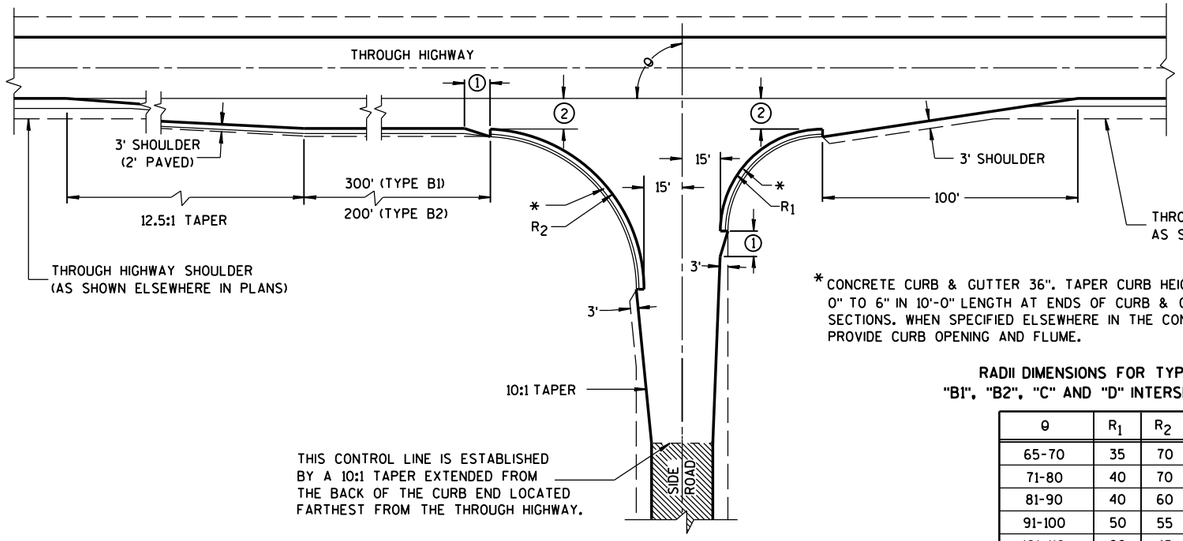
APPROVED
9/14/98 DATE
/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 10-1

6

S.D.D. 8 F 10-1

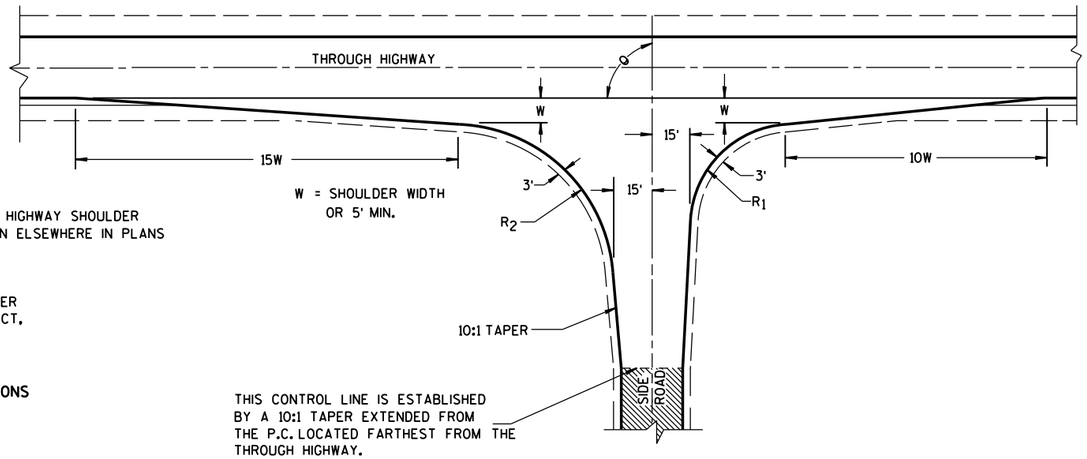


TYPE "B1" AND "B2"

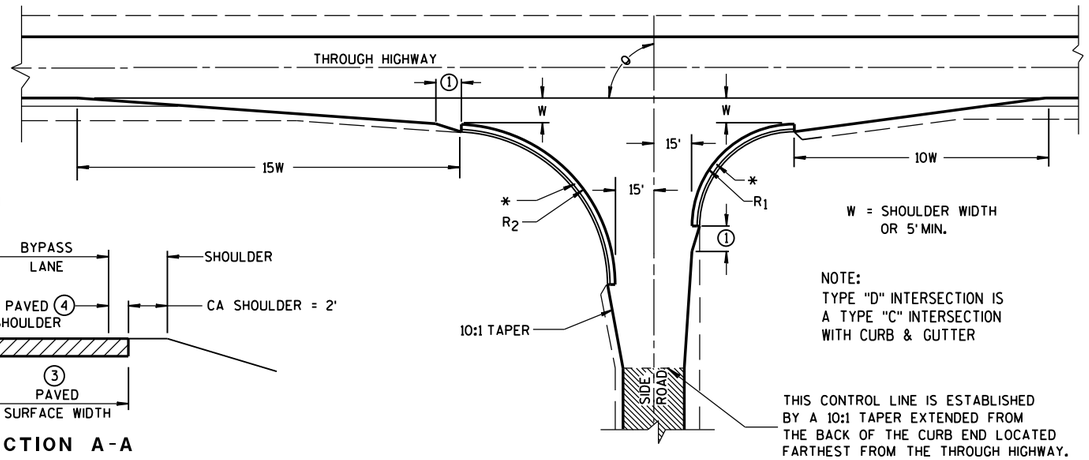
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

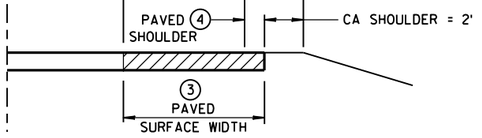
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

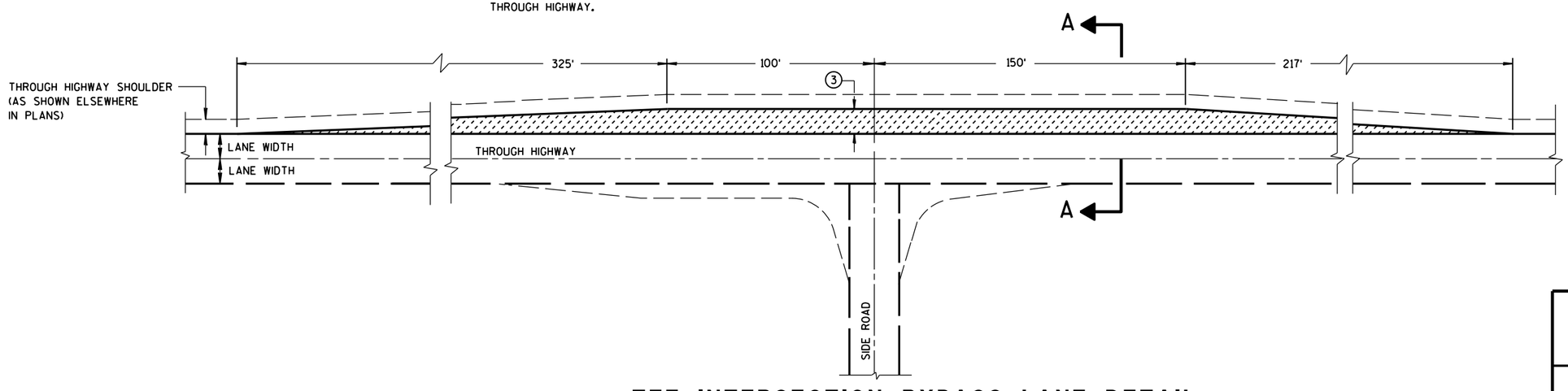
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)

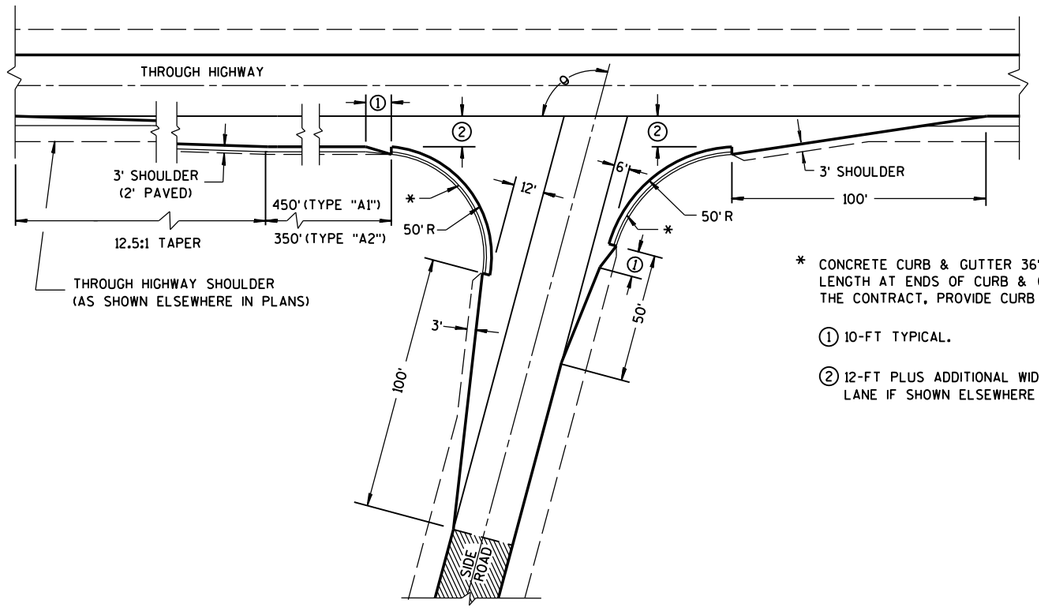


TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 9 A 1-13a



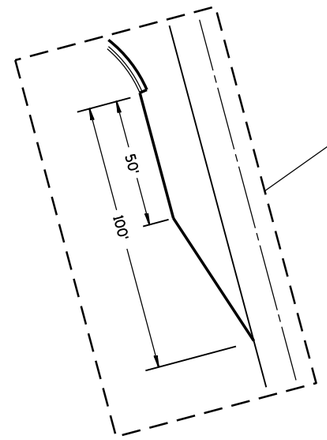
θ = MORE THAN 80°

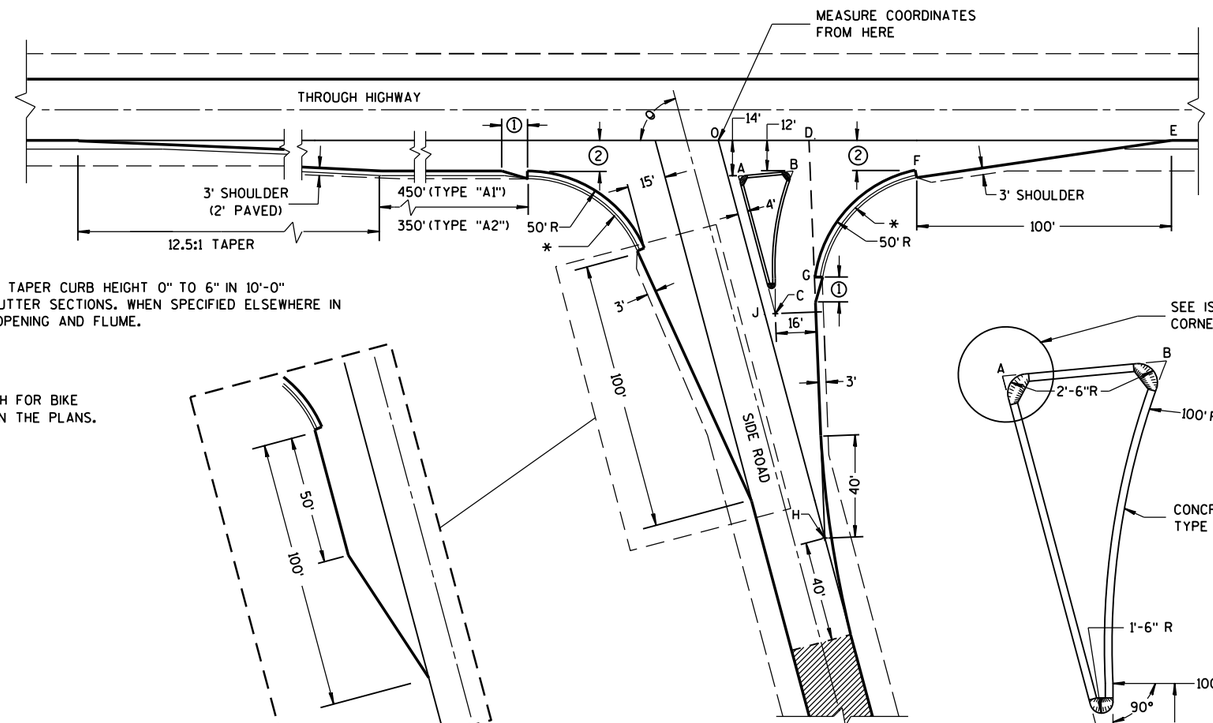
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

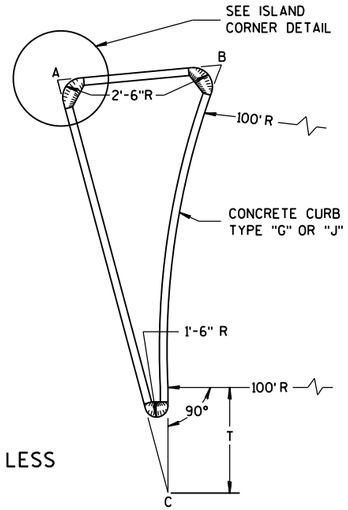
② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

EXISTING PAVED SURFACE

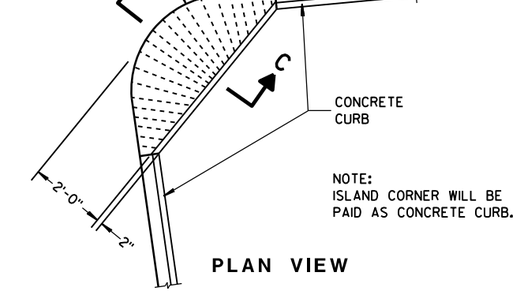




θ = ACUTE ANGLES 80° OR LESS

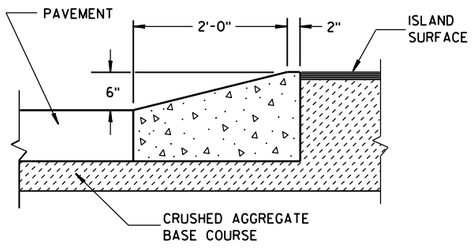


SIDE ROAD WIDENING AND TAPER REQUIRED WHERE
THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS



NOTE:
ISLAND CORNER WILL BE
PAID AS CONCRETE CURB.

PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O") X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 0.0	196.1 / 0.0	95.7 / -12.0	54.1 / -71.5	70.5 / -151.3	28.2	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.9 / -12.0	29.8 / -70.1	37.4 / 0.0	188.3 / 0.0	87.8 / -12.0	45.6 / -67.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.3 / -12.0	22.3 / -67.9	35.7 / 0.0	181.2 / 0.0	80.7 / -12.0	38.2 / -63.4	41.8 / -155.9	21.5	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.4 / -12.0	15.6 / -65.2	34.4 / 0.0	174.8 / 0.0	74.4 / -12.0	31.8 / -59.3	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9

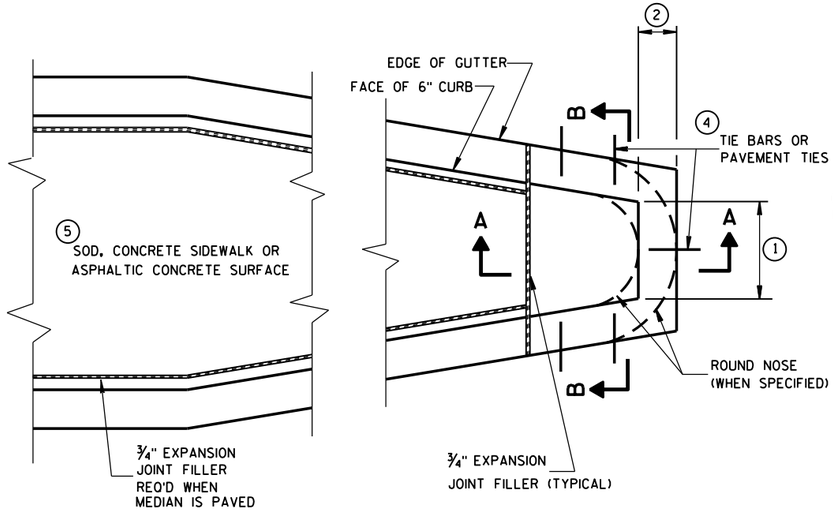
TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS

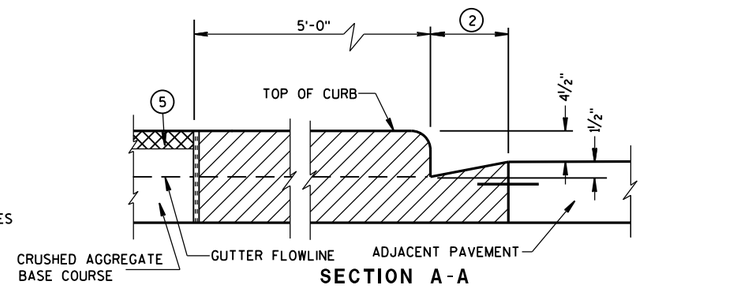
AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/18/12 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 9 A 1-13b





CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

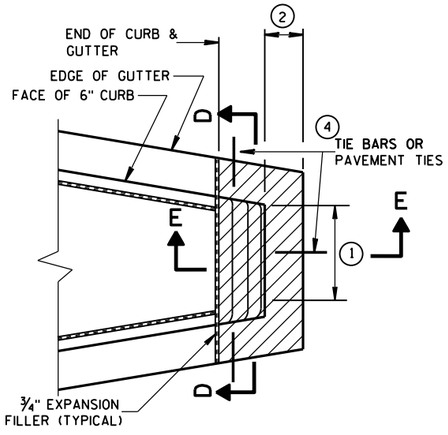
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

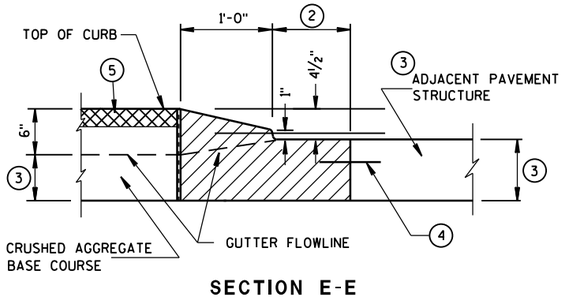
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

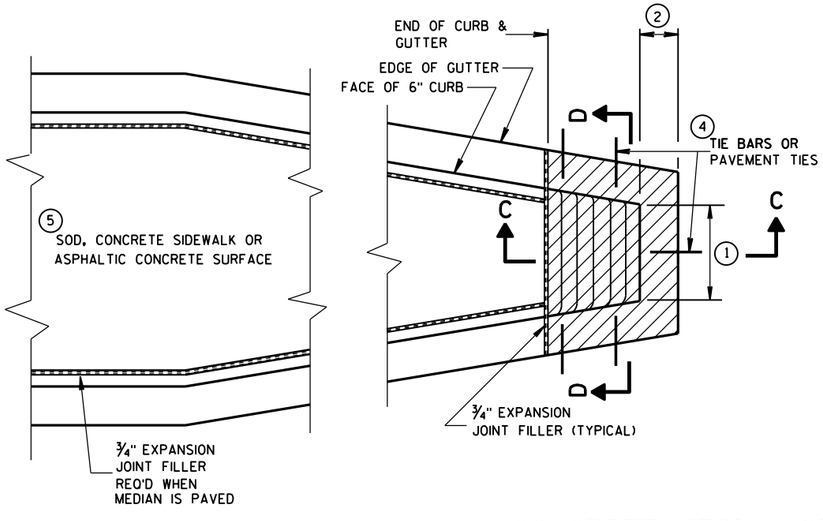
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

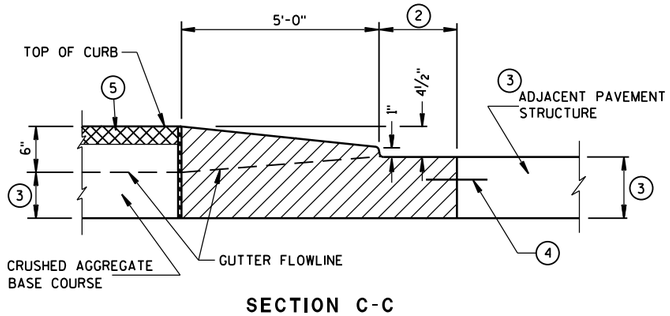




SECTION E-E

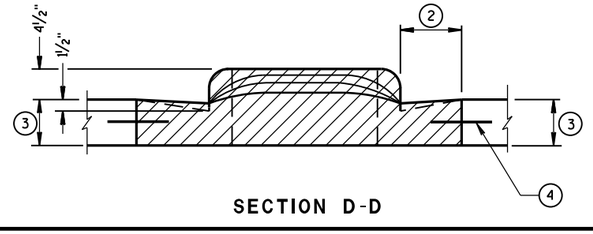
CONCRETE MEDIAN SLOPED NOSE TYPE 2





SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

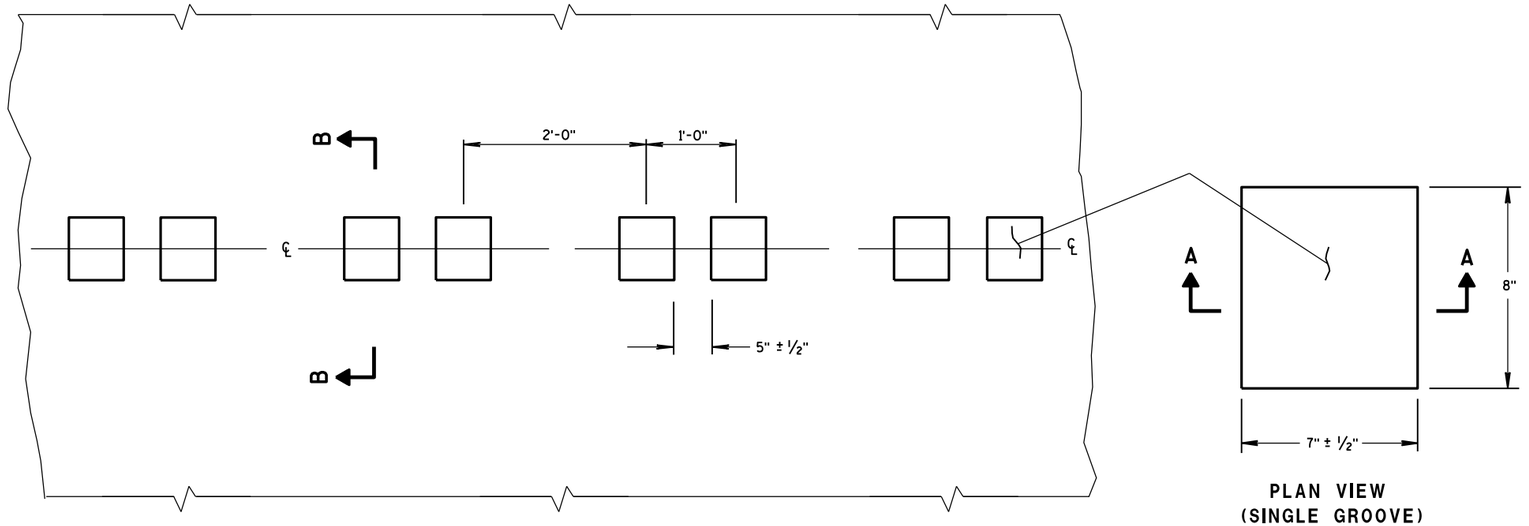
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

6

S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



PLAN VIEW
CENTER LINE WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

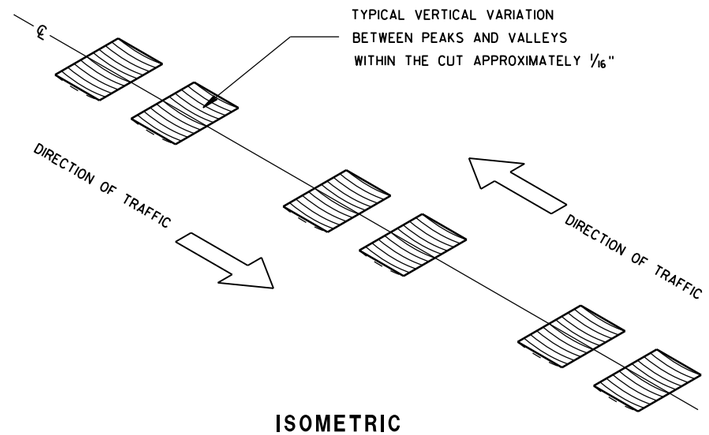
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

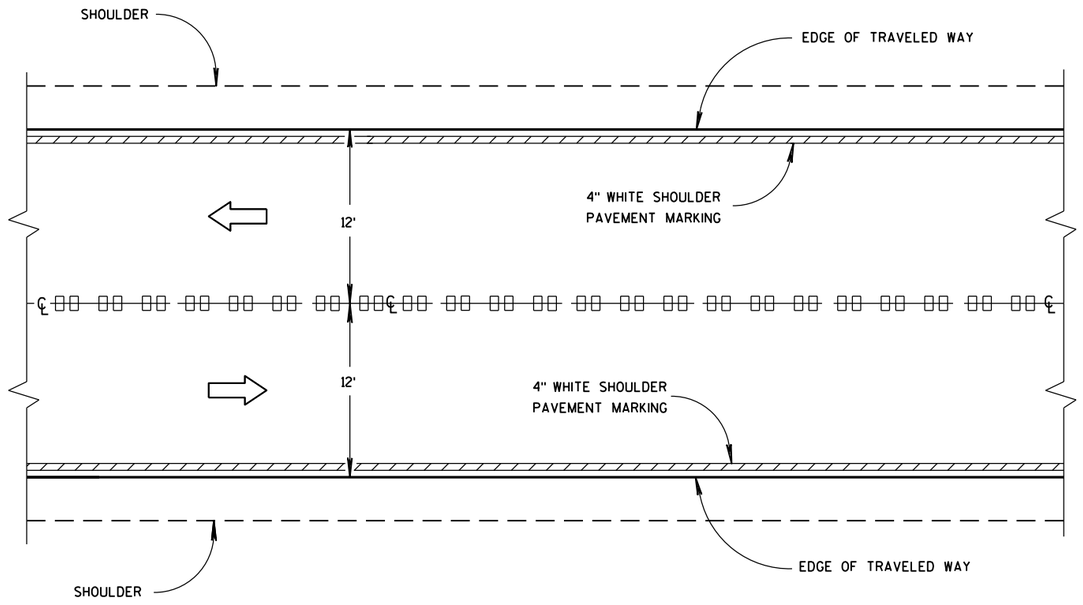
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

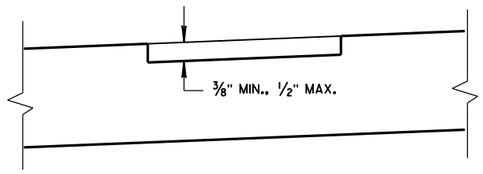
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



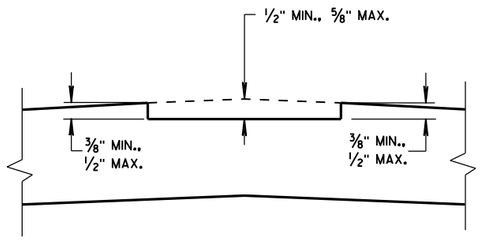
ISOMETRIC



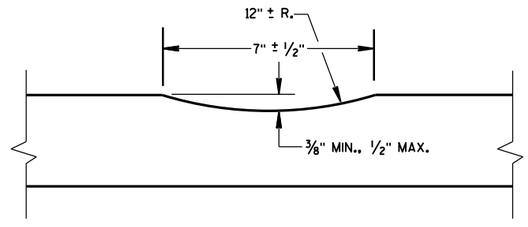
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

6

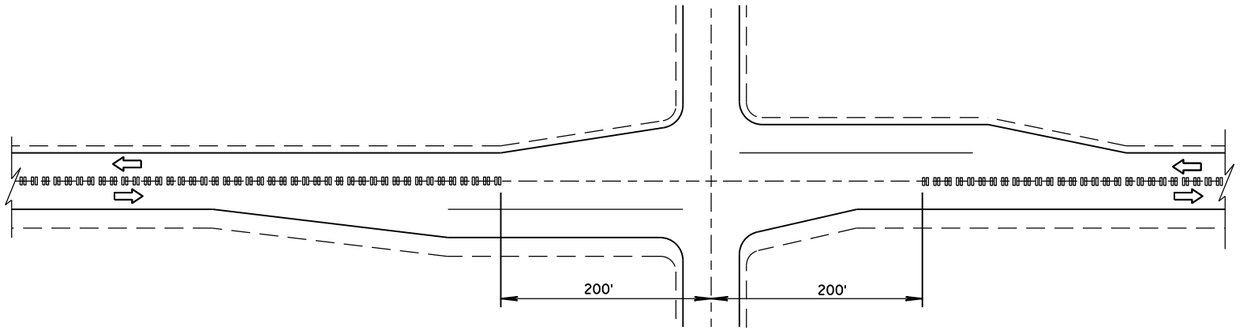
6

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

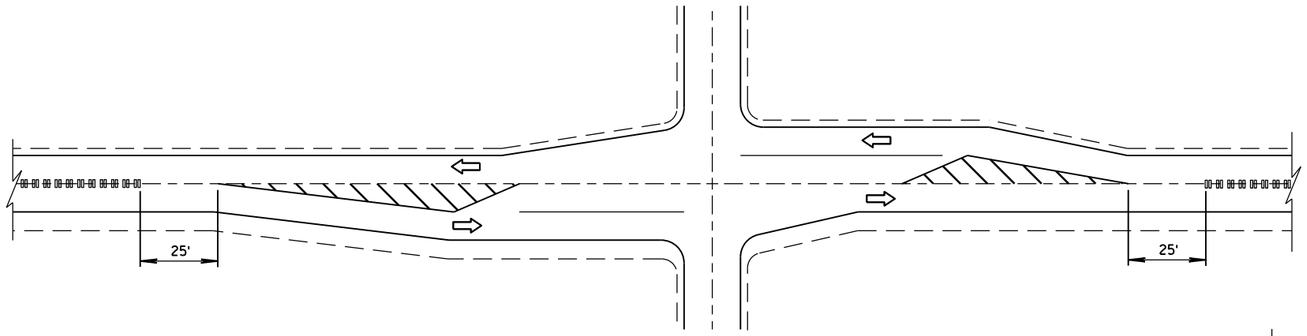
S.D.D. 13 A 11-2a

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

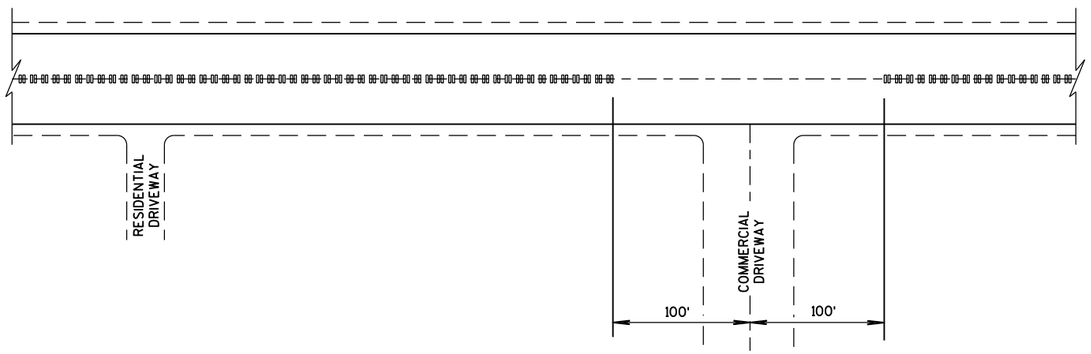
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



CENTER LINE GROOVES AT INTERSECTIONS

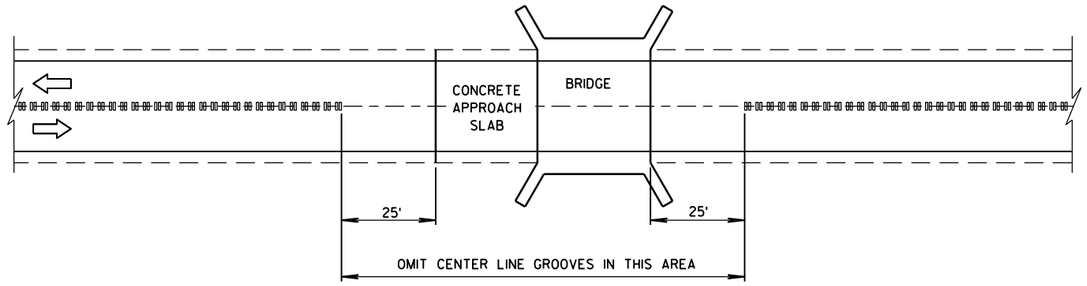


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

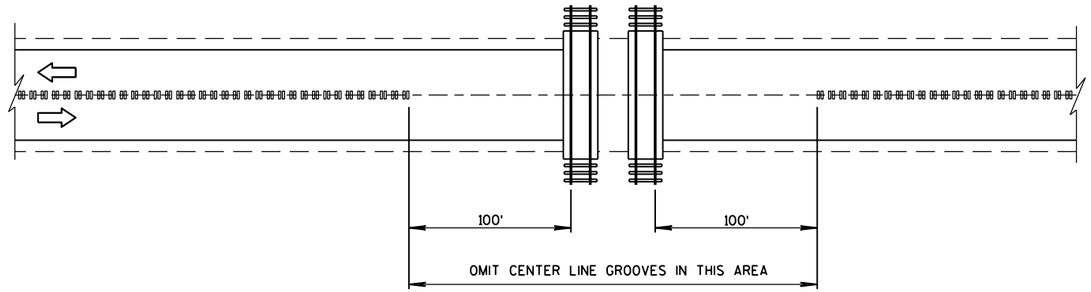


CENTER LINE GROOVES AT DRIVEWAYS (1)

(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

GENERAL NOTES

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

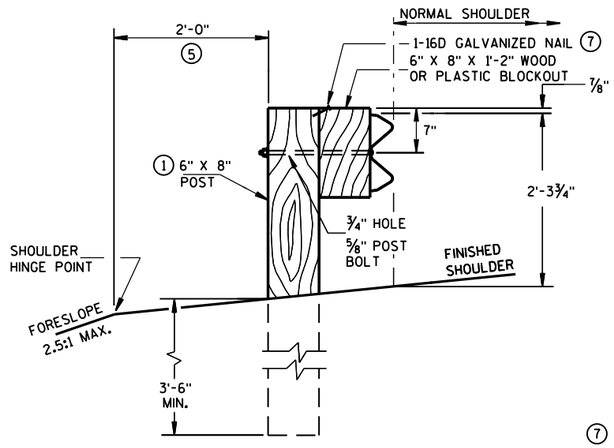
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

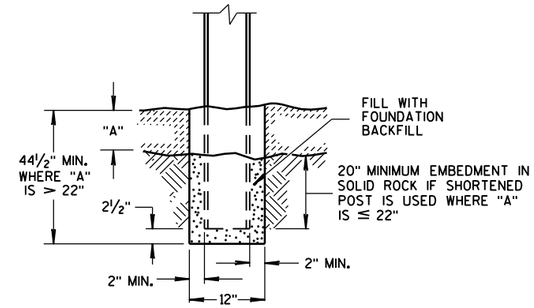
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

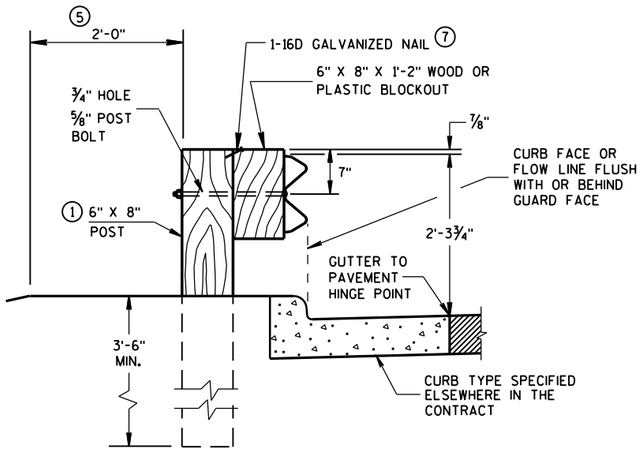
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



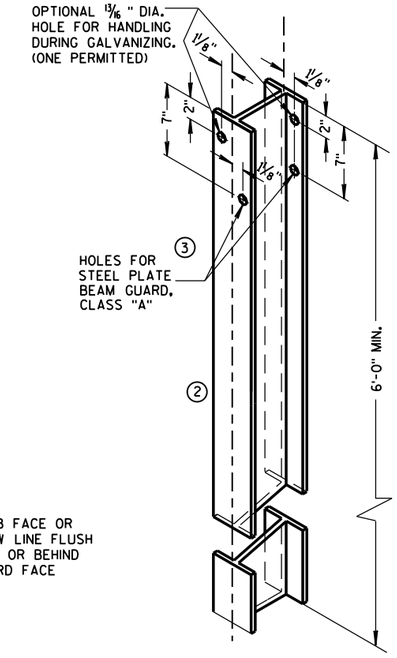
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)

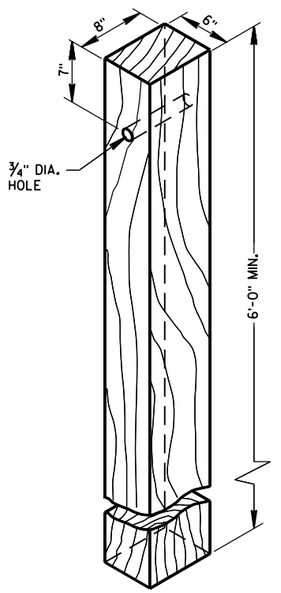


END VIEW
LOCATED ALONG A CURBED ROADWAY

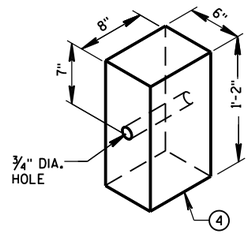


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

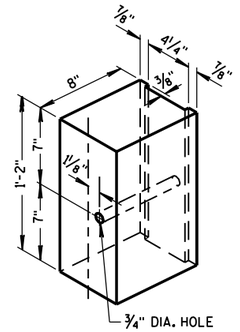
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



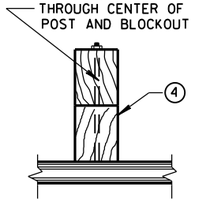
WOOD POST
(6"X8") NOMINAL



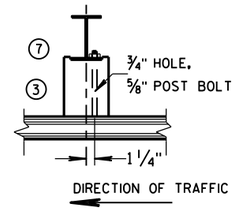
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



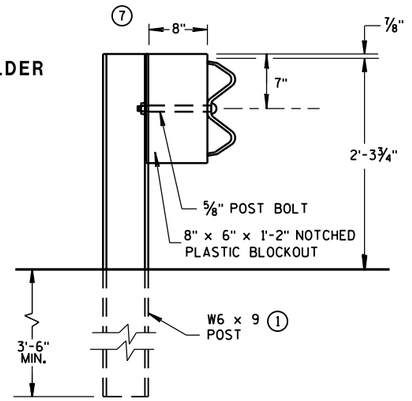
TYPICAL NOTCHED (1)
PLASTIC BLOCKOUT
FOR STEEL POSTS



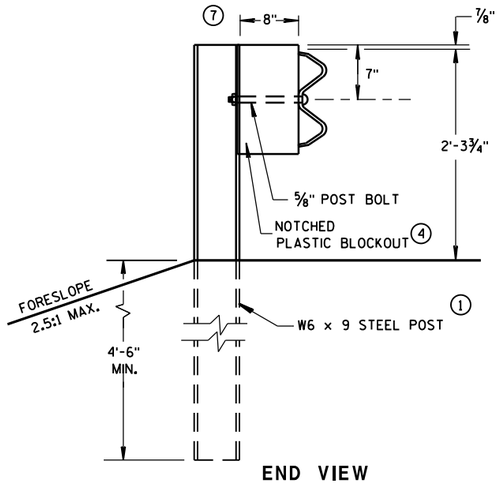
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



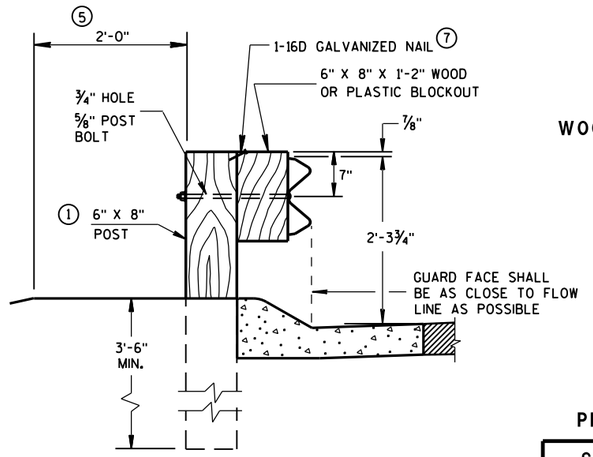
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)



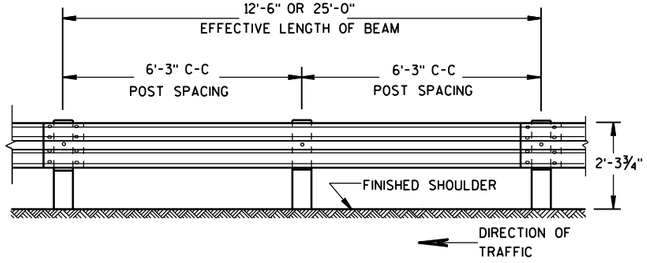
END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

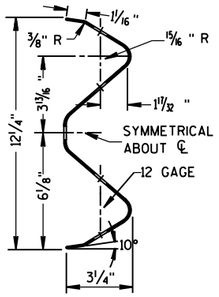
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 15-9a

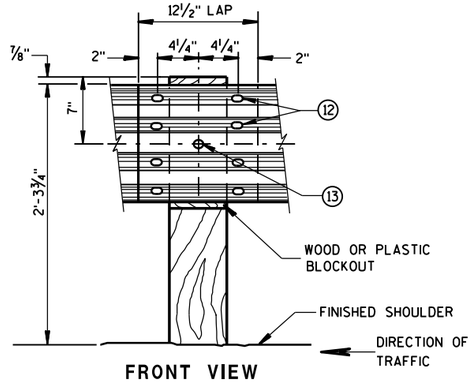


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

(8) 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.

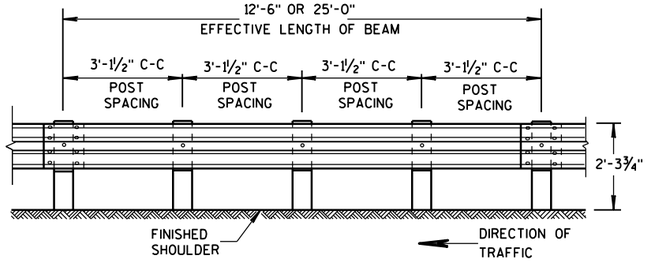
(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

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

(11) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

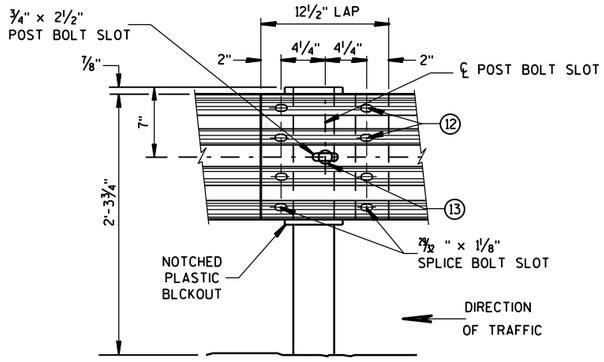
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

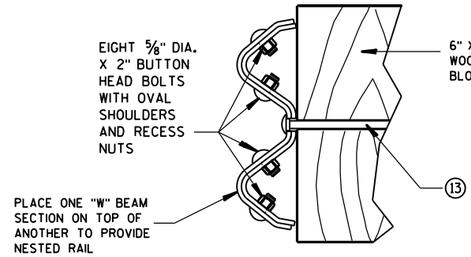
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

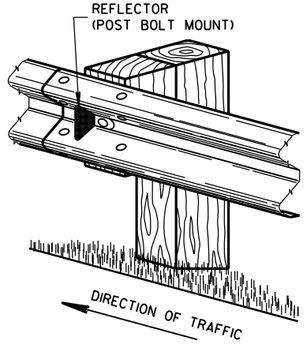


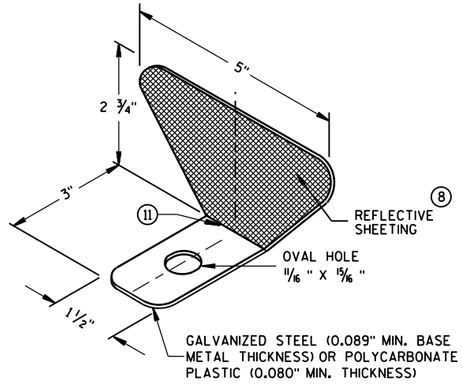
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

REFLECTOR SPACING (9)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 (10) 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2 (11)	3



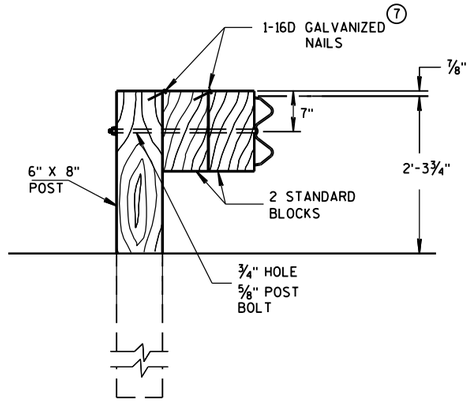


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (8)

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

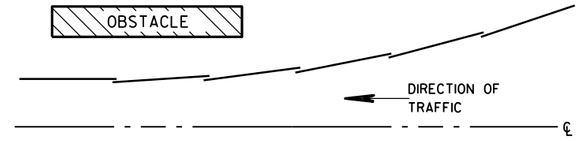
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 15-9b

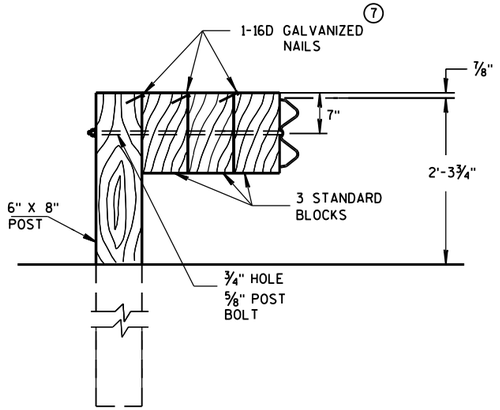


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

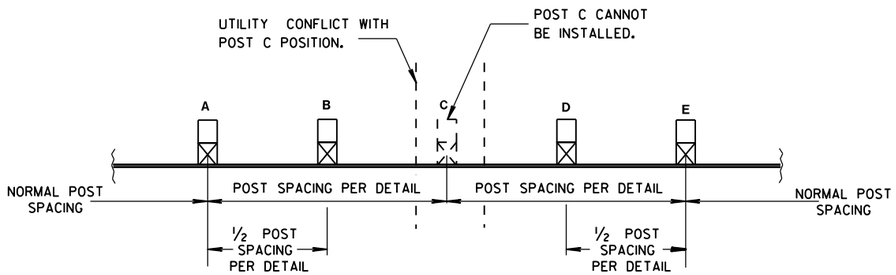


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA 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.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

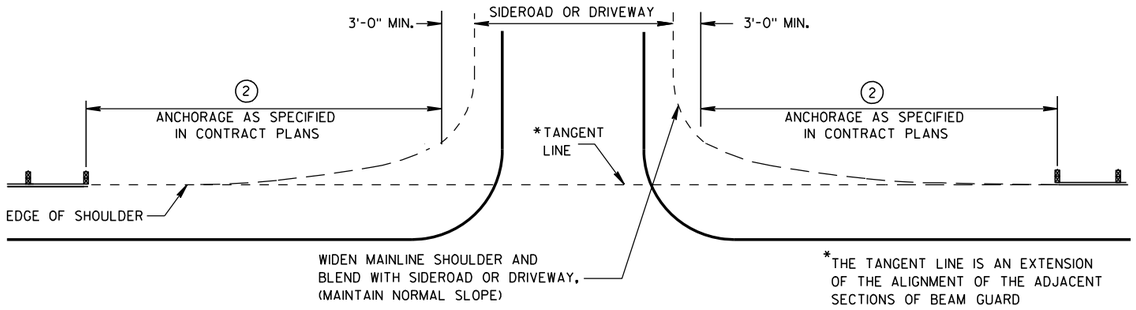
June 2016 — DATE

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

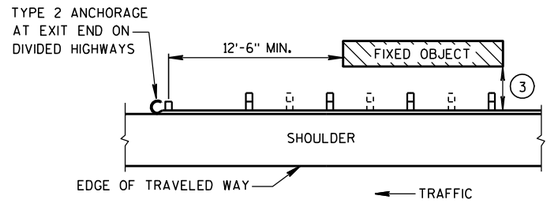
FHWA

6

S.D.D. 14 B 15-9c



BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

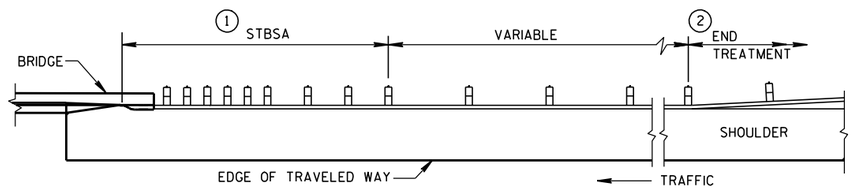
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

(1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE CURRENT SDD 14B20.

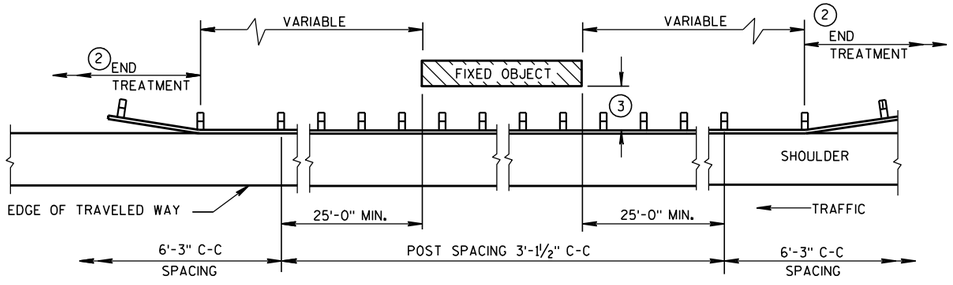
(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

(3)

MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
3'-6"	3' - 1½"
4'-6"	6' - 3"

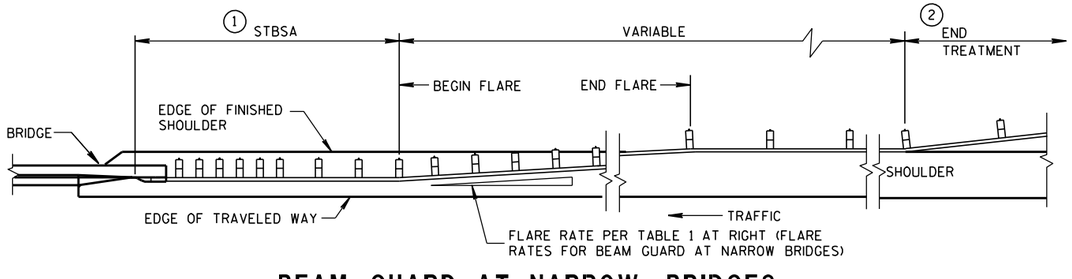


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAM GUARD AT NARROW BRIDGES
(FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1
FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-21-07 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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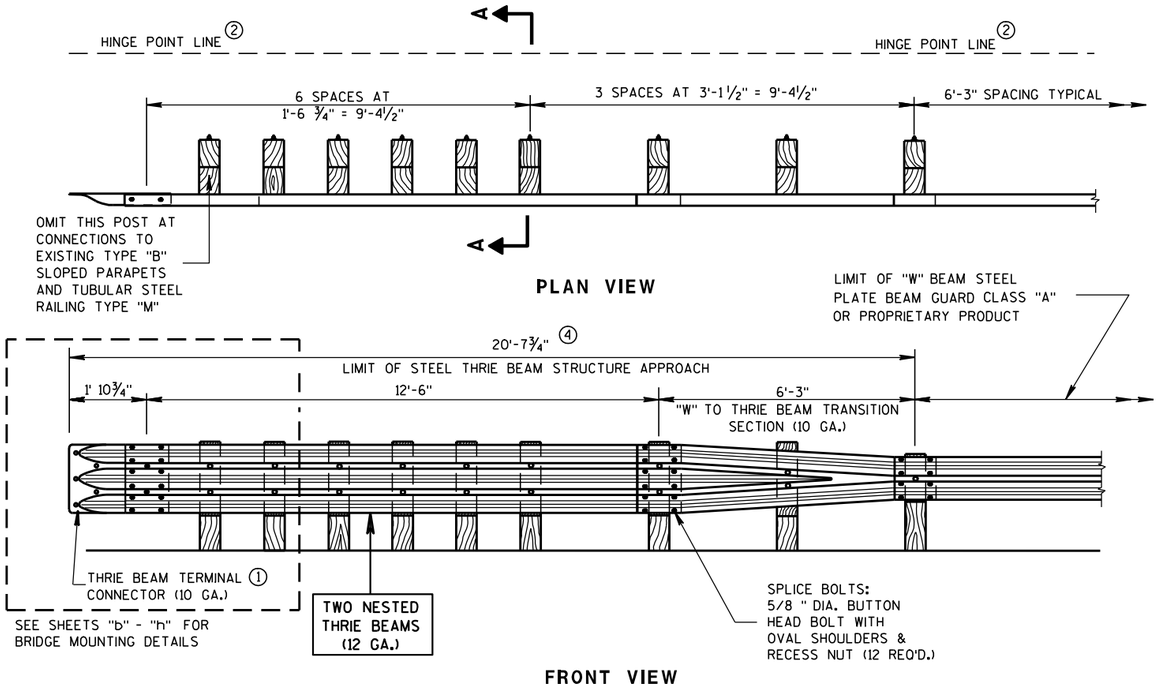
S.D.D. 14 B 18-6a



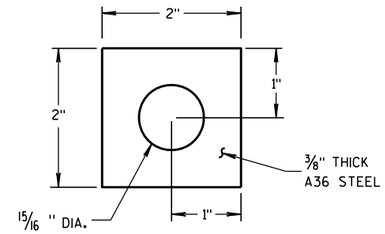


PLATE WASHER DETAIL

GENERAL NOTES

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

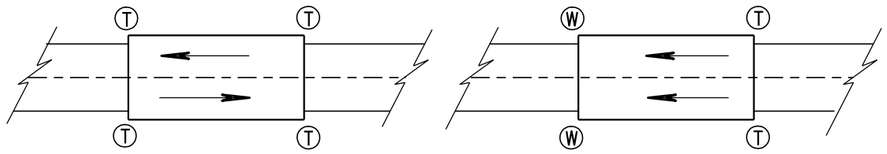
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2" , AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

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

② MINIMUM EMBEDMENT SHALL BE 4'-0". WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK SHOWN ON THE PLAN TYPICAL SECTIONS OR DETAILS, THE ENGINEER MAY ALLOW THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. OTHERWISE BUILD AS THE PLAN SHOWS OR AS THE ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST EMBEDMENT DEPTH TO 4'-6" OR MORE.

③ POST BOLTS ARE 5/8" DIAMETER ASTM A307 BUTTON HEAD BOLT. A POST BOLT REQUIRES A 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX AND A 5/8" DIAMETER F844 FLAT WASHER. LENGTH OF POST BOLT MAY VARY.

④ ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.



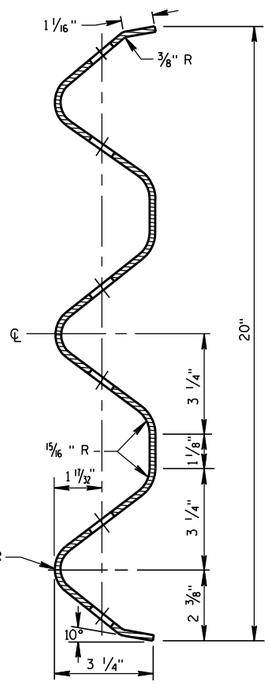
TWO WAY TRAFFIC

ONE WAY TRAFFIC

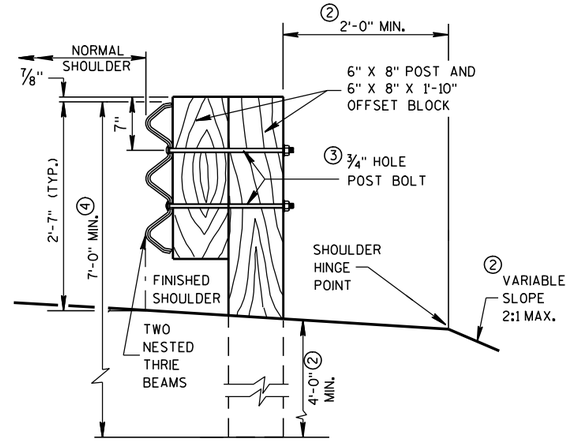
T THRIE BEAM CONNECTION

W W-BEAM CONNECTION WHEN REQUIRED

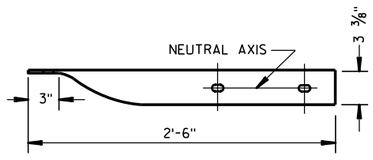
TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

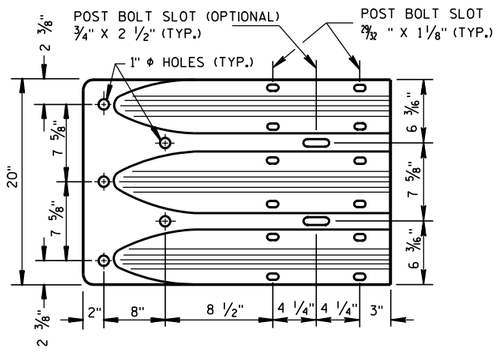


SECTION THRU THRIE BEAM RAIL ELEMENT

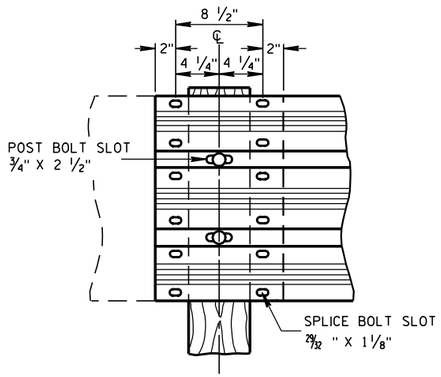


SECTION A-A





THRIE BEAM TERMINAL CONNECTOR



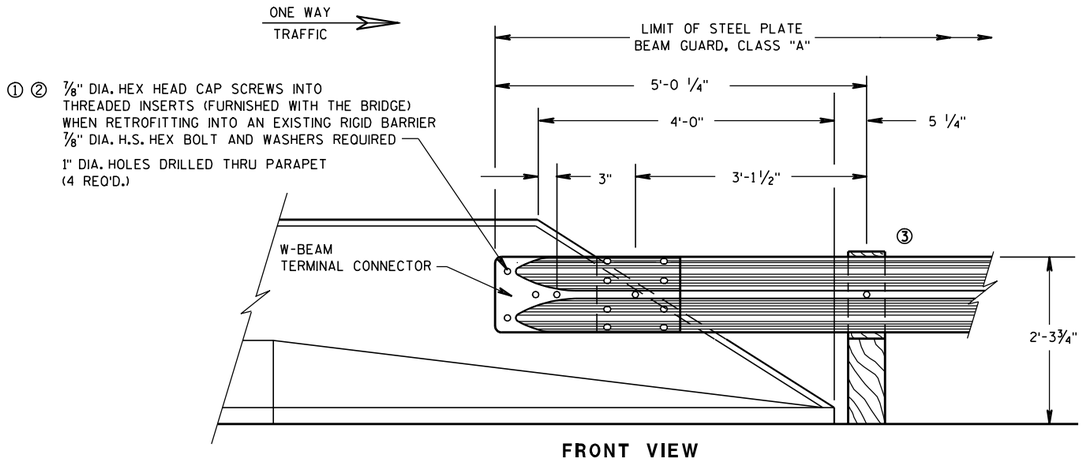
THRIE BEAM SPLICE

STEEL THRIE BEAM STRUCTURE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

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

GENERAL NOTES

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

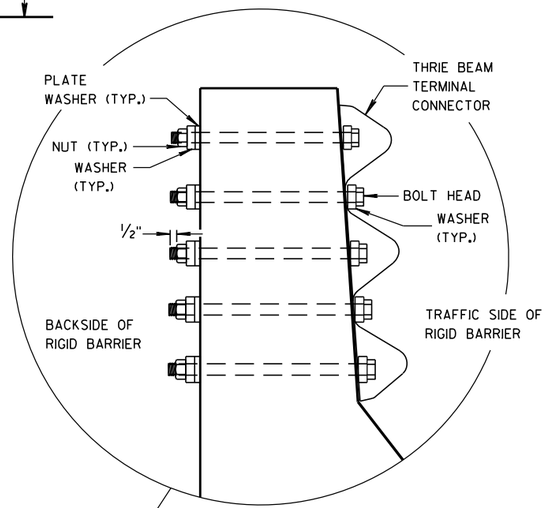
BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

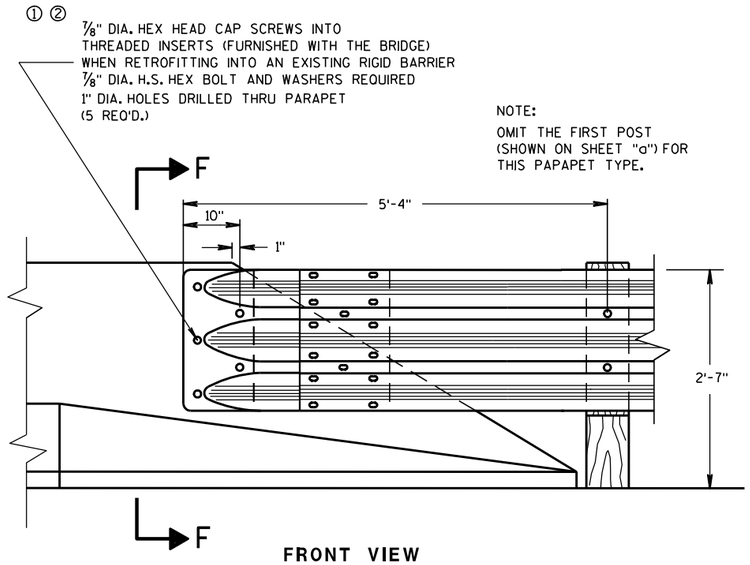
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM TERMINAL CONNECTOR. 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.

③ W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

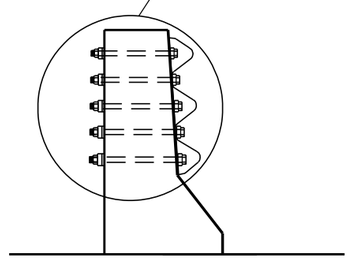
DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.



DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION F-F

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 — DATE
/S/ Jerry H. [illegible] — ROADWAY STANDARDS [illegible] ENGINEER
FHWA

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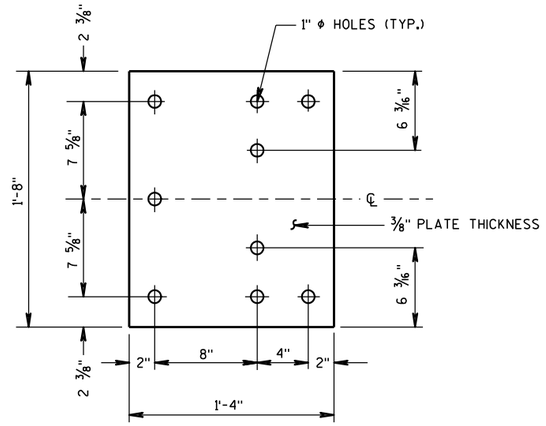
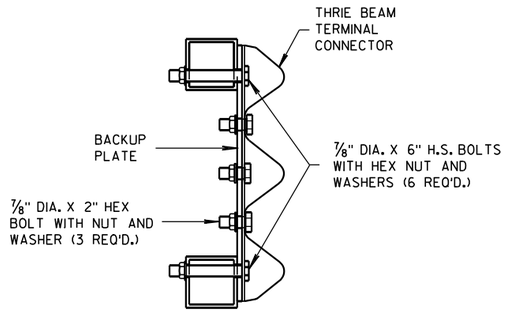
S.D.D. 14 B 20-11d



BACK-UP PLATE DETAIL



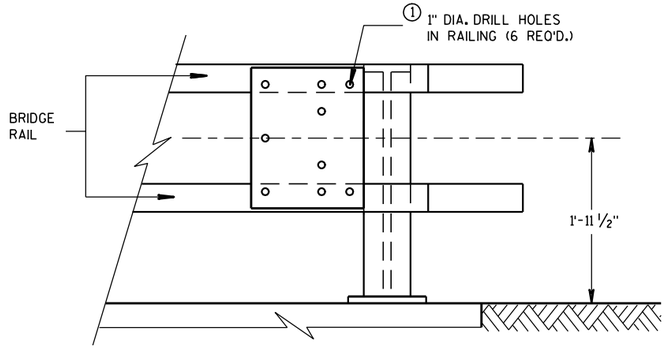
SECTION G-G

GENERAL NOTES

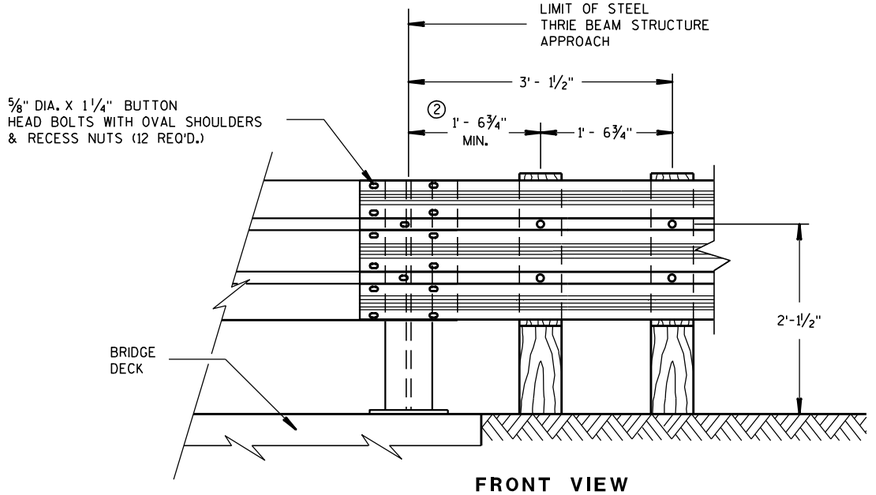
BOLTS, PLATES, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A 325 AND BE GALVANIZED IN ACCORDANCE WITH ASTM A 153.

① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

② VARY THIS DIMENSION DEPENDING ON ABUTMENT TYPE, WINGWALL DETAILS, AND ANGLE OF SKEW. PLACE THE FIRST WOOD POST OFF THE BRIDGE SHALL AS CLOSE AS FEASIBLE TO THE STEEL END POST.

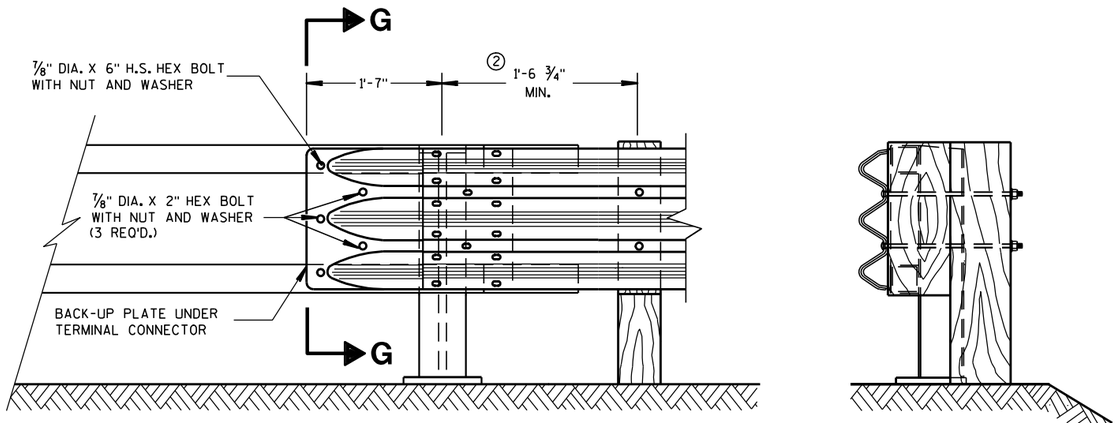


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING



FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW

END VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPES "F" AND "W"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 — DATE
/S/ Jerry H ____ — ROADWAY STANDARDS ENGINEER
ENT
FHWA

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S.D.D. 14 B 20-11e

6

S.D.D. 14 B 20-11e

BILL OF MATERIALS

NOTE NO.	QTY.	DESCRIPTION
(1)	4	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
(2)	**	STEEL TUBE: OPTION 1 - QUANITY OF 4 TS 8" X 6" X 0.188", 4'-6" LONG OR OPTION 2 - QUANITY OF 2 TS 8" X 6" X 0.188", 6'-0" AND 2 TS 8" X 6" X 0.188", 4'-6" LONG
(3)	2	SOIL PLATE: 2'-0" X 1'-6" X ¼" **
(4)	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
(5)	6	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
(6)	1	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
(7)	1	BEARING PLATE
(8)	1	BCT CABLE ASSEMBLY
(9)	1	CABLE ANCHOR BOX
(10)	1	STRUT & YOKE
(11)	1	STEEL PLATE BEAM, END PANEL 12 GA. 13'-6½" LONG FOR SKT-350, ET-2000 AND ET-2000 PLUS
(12)	3	STEEL PLATE BEAM: 12 GA. 13'-6½"
(13)	1	ET-2000/ET-2000 PLUS GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
(14)	1	REFLECTIVE SHEETING TYPE H: 18" X 18"
(15)	1	E.A.T. MARKER POST

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS. IF NONE ARE AVAILABLE, INSTALL ⅝" ϕ X 1'-6" BUTTON HEAD BOLTS AT ALL POSTS EXCEPT FOR POST 1.

(A) THE SLOPE IN THE AREA BOUNDED BY THE EXTENDED VEHICLE RUNOUT PATH (EVRP), 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) THE 13 SLOT FIRST RAIL PANEL MAY BE USED IN LIEU OF THE 3 SLOT RAIL PANEL ON SKT-350 ONLY.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 THROUGH 4 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 5 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

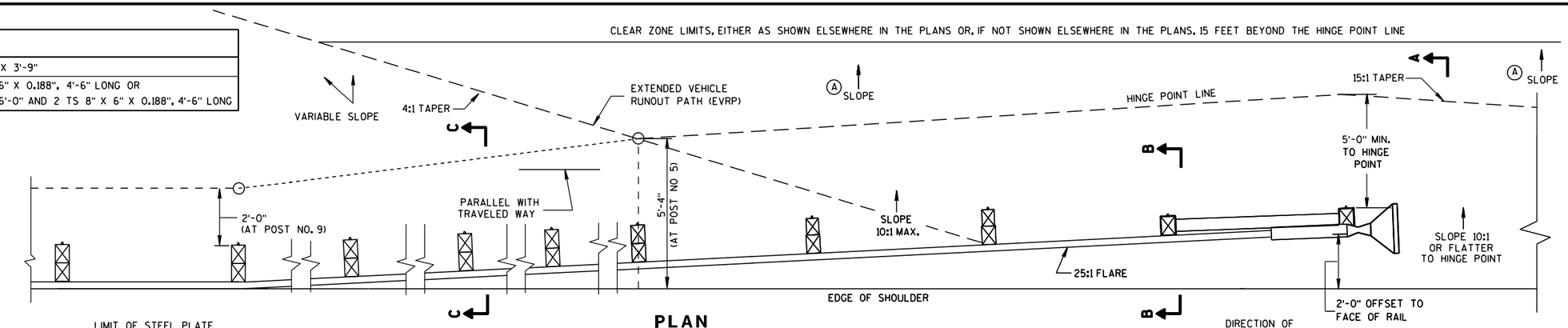
(F) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.

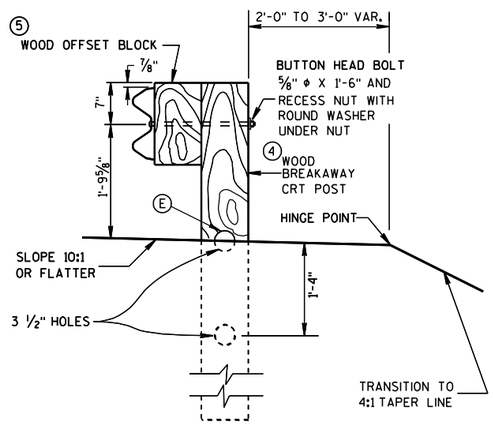
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

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

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

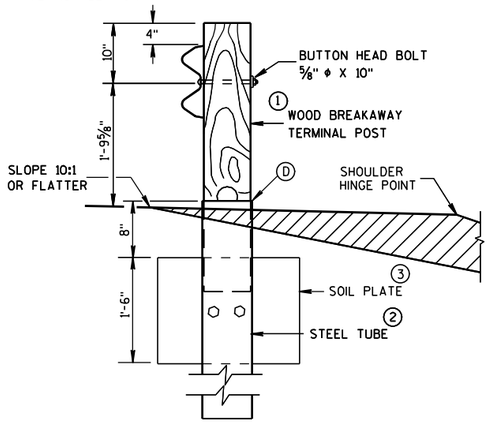
** SDD SHOWS 4 - 54 INCH STEEL TUBES WITH SOIL PLATES INSTALLED ON POST 1 AND POST 2. POST 3 AND 4 DO NOT NEED SOIL PLATES. AN ALTERNATIVE INSTALLATION WOULD CONSIST OF 2 - 72 INCH STEEL TUBES ON POST 1 AND POST 2 AND 54 INCH SOIL TUBES ON POSTS 3 AND 4. THE ALTERNATIVE INSTALLATION DOES NOT REQUIRE SOIL PLATES.





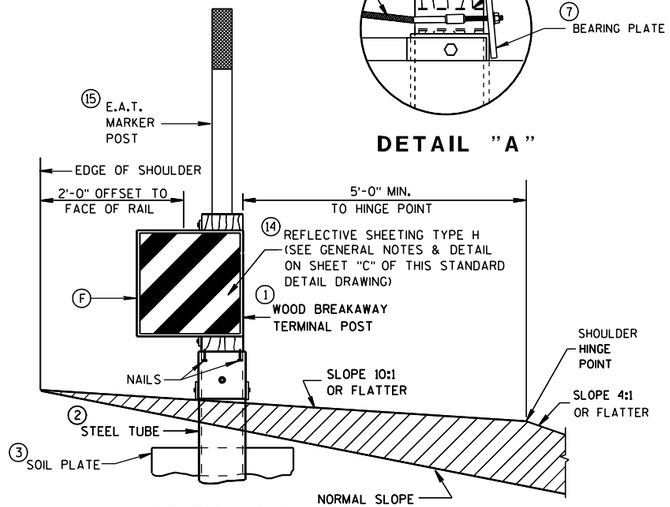
SECTION C-C

TYPICAL AT POST NOS. 6, 8



SECTION B-B

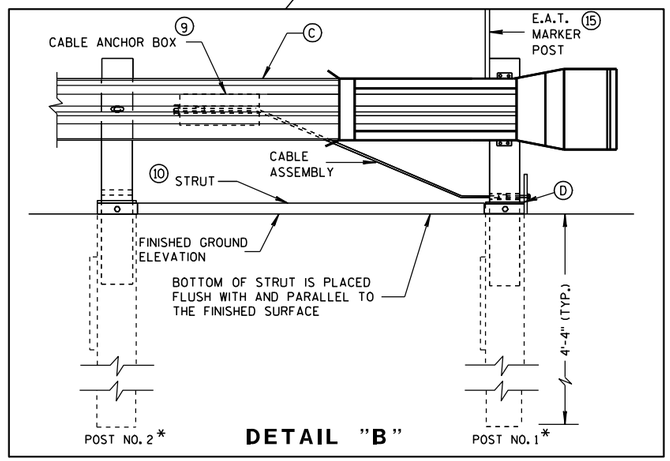
TYPICAL AT POST NO. 2*



DETAIL "A"

SECTION A-A

TYPICAL AT POST NO. 1*



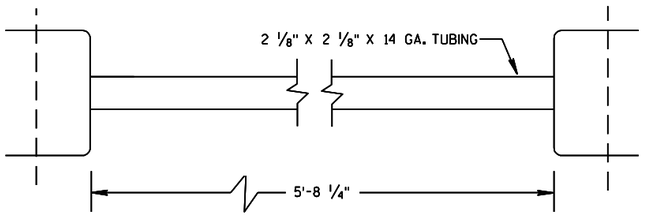
DETAIL "B"

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

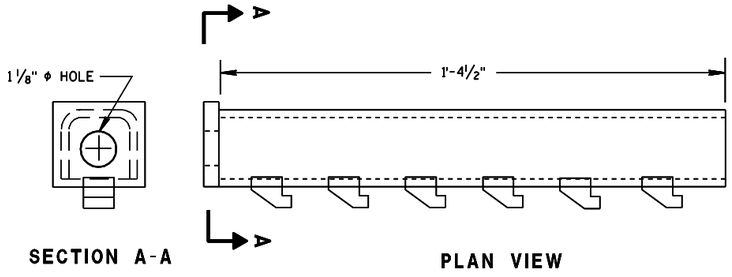
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

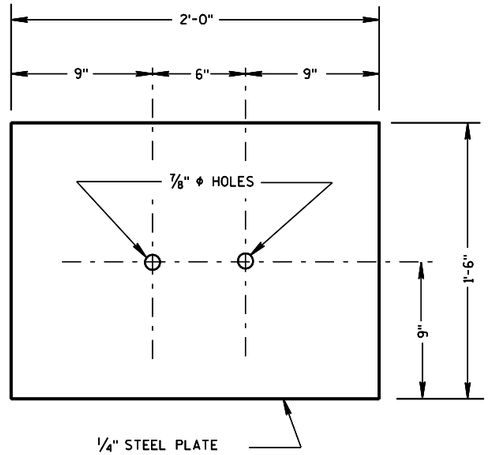
S.D.D. 14 B 24-7a



⑩ STRUT DETAIL (SKT-350)

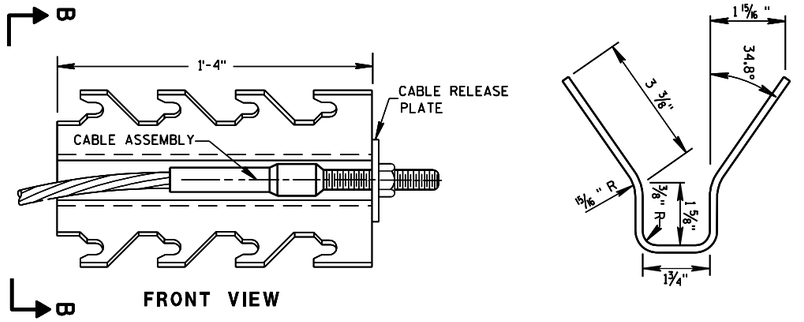


⑨ CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



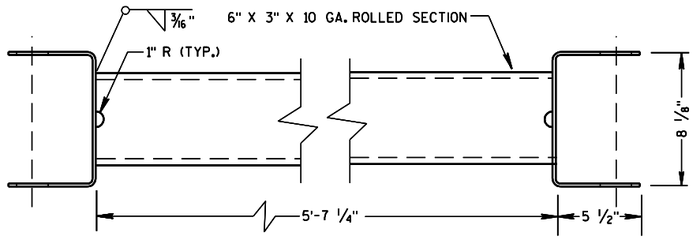
③ SOIL PLATE

(SKT-350, ET-2000/ET-2000 PLUS)



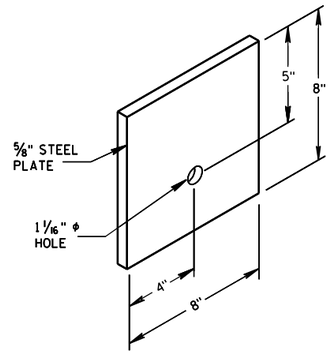
⑨ CABLE ANCHOR BOX (SKT-350)

(SKT-350)



⑩ STRUT DETAIL (ET-2000/ET-2000 PLUS)

(ET-2000/ET-2000 PLUS)

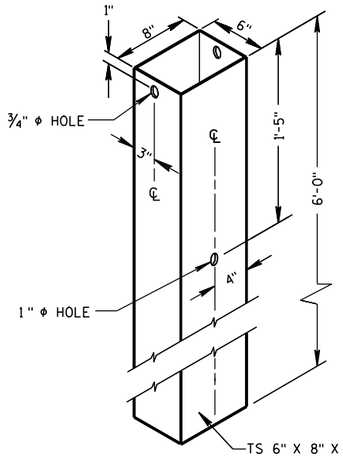


⑦ STEEL BEARING PLATE

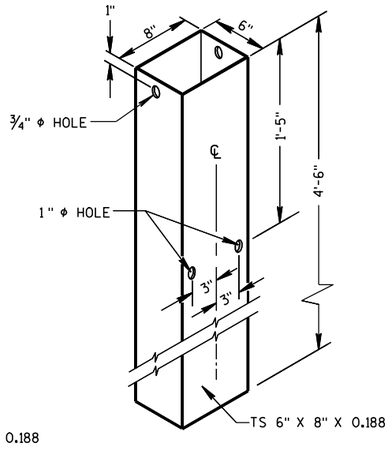
(SKT-350, ET-2000/ET-2000 PLUS)

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

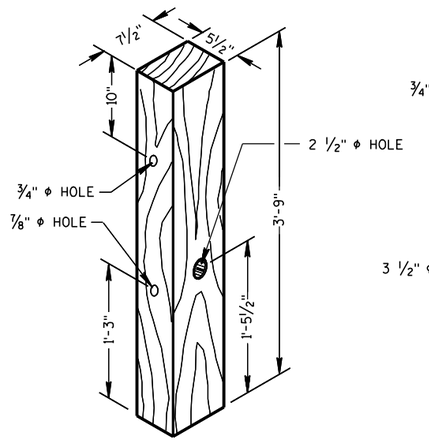
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



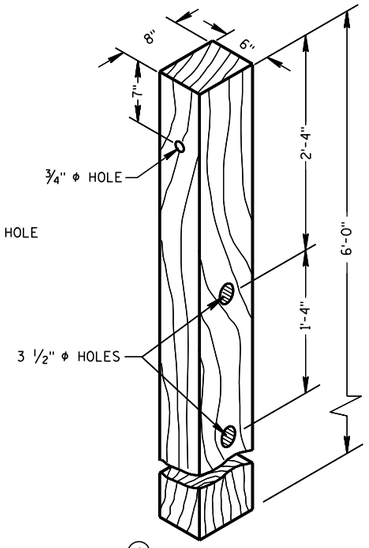
(2) 72" STEEL TUBE
(POSTS NO. 1-4



(2) 54" STEEL TUBE
(POSTS NO. 1-4



(1) TERMINAL POST
(POSTS NO. 1-4



(4) CRT POST
(POSTS NO'S 5-8

WOOD BREAKAWAY POSTS

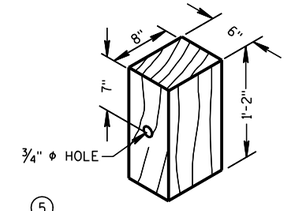
GENERAL NOTES

STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, WHICH SHALL INCLUDE HARDWARE, STEEL PLATE BEAM GUARD, POSTS, REFLECTIVE SHEETING AND INSTALLATION AS SHOWN.

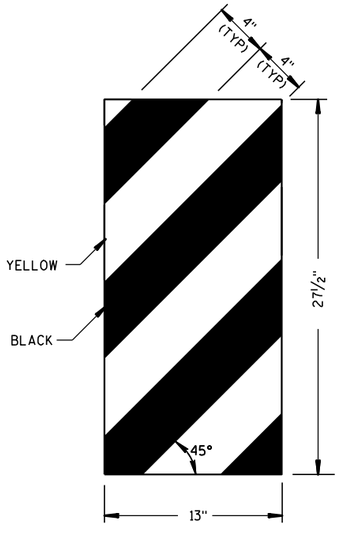
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

SEE APPROVED PRODUCTS LIST FOR ACCEPTABLE E. A. T. MARKER POST.

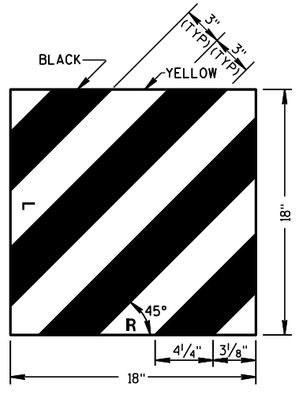
(G) ½" DIA. X 3" LAG BOLT WITH WASHER.



(5) WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

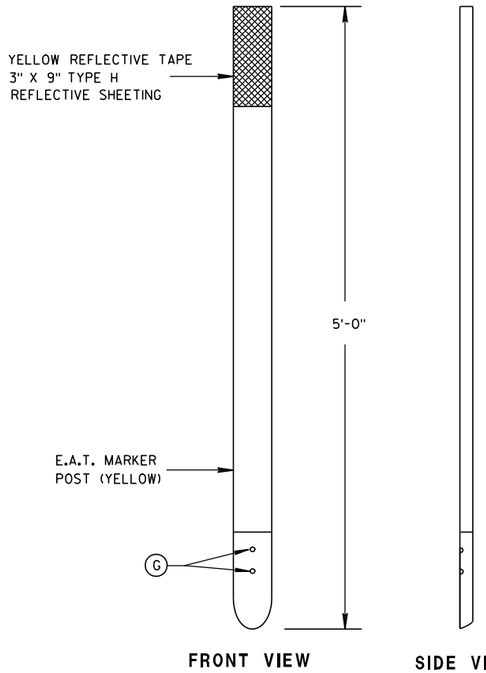


ET-2000 PLUS ONLY



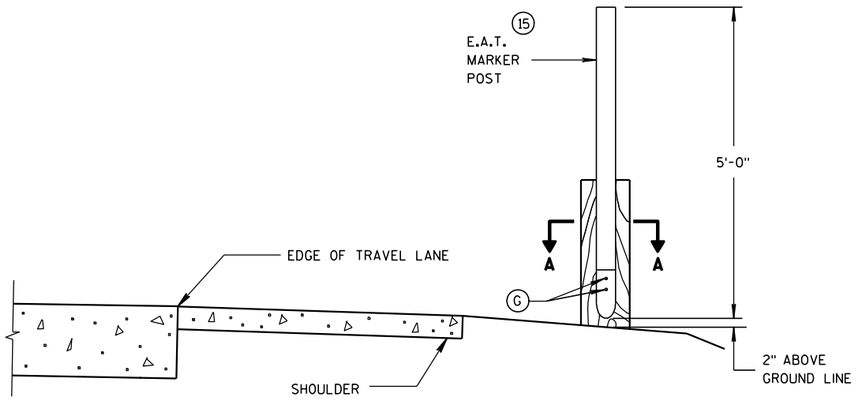
ET-2000 AND SKT-350

(14) REFLECTIVE SHEETING DETAILS

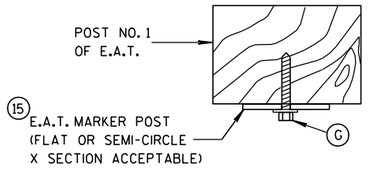


FRONT VIEW SIDE VIEW

(15) E.A.T. MARKER POST



TYPICAL INSTALLATION OF E.A.T.
MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

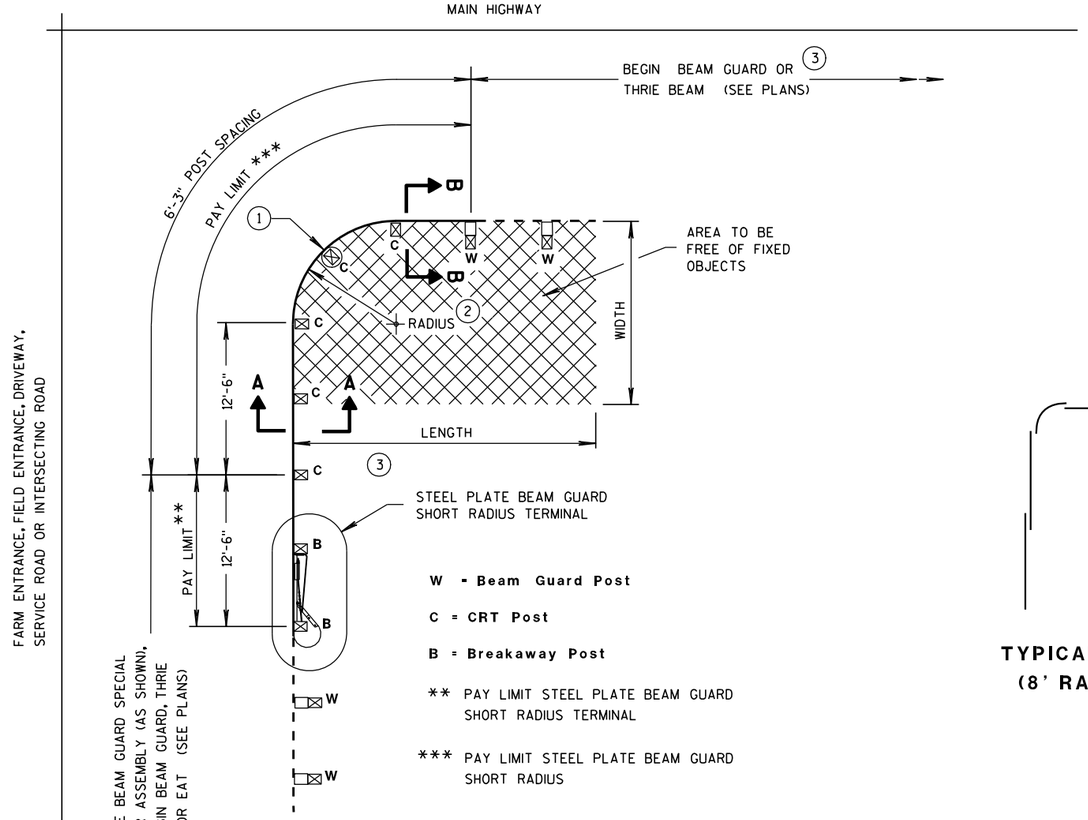
APPROVED
4-12-10 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
[illegible]ENT
FHWA

6

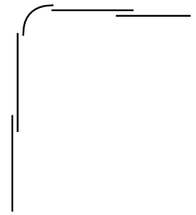
S.D.D. 14 B 24-7c

6

S.D.D. 14 B 24-7c



TYPICAL LAYOUT
(8' RADIUS SHOWN)



TYPICAL LAP SPLICES
(8' RADIUS SHOWN)

GENERAL NOTES

ALL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 AND THE STRUCTURAL TUBING SHALL CONFORM TO ASTM A 500. WELDING SHALL MEET THE CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI/AWS D1.1. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 123. PUNCHING, DRILLING, CUTTING, OR WELDING WILL NOT BE PERMITTED AFTER GALVANIZING. FURNISH AND INSTALL HARDWARE PER STANDARD SPECIFICATION 614.2. UNLESS NOTED OTHERWISE.

SHOP BEND CURVED RAIL SECTIONS.

SEE STANDARD DETAIL DRAWING 14 B 15 FOR OTHER DETAIL.

(1) ON THE 8 FOOT RADIUS INSTALLATION, DO NOT INSTALL BUTTON HEAD BOLT AT CENTER CRT POST.

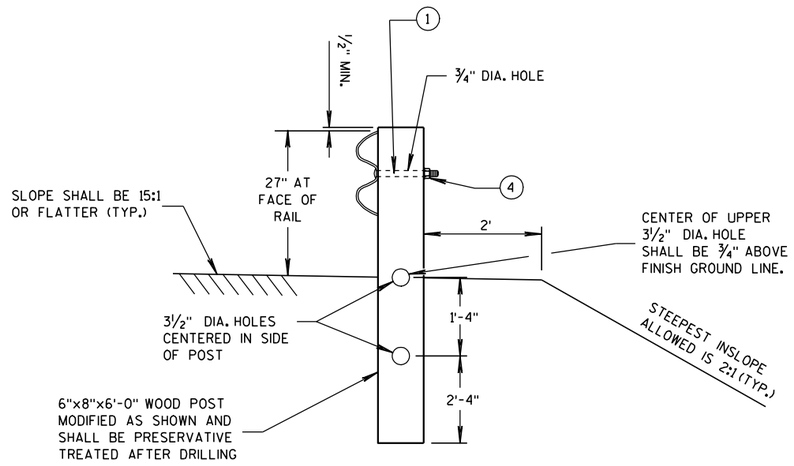
(2) RADIUS FROM 8' - 36'. SEE PLAN.

(3) HEIGHT TRANSITION MAY BE REQUIRED. SEE PLAN OR PROJECT ENGINEER.

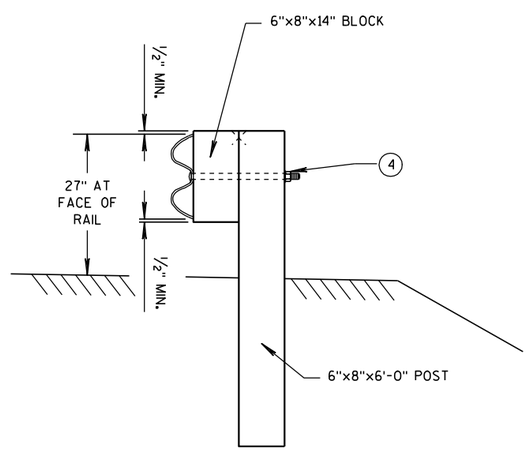
(4) 5/8" ø X 1'-6" BUTTON HEAD BOLT AND RECESS NUT WITH ROUND WASHER UNDER NUT.

RADIUS	NUMBER OF CRT POSTS	*NUMBER AND LENGTH OF CURVED RAILS	REQUIRED AREA FREE OF FIXED OBJECTS (LENGTH x WIDTH)
8'	5	1 at 12.5'	25' x 15'
16'	7	1 at 25'	30' x 15'
24'	9	1 at 25' and 1 at 12.5'	40' x 20'
32'	11	2 at 25'	50' x 20'

* THE NUMBER OF RAILS IS BASED ON A 90° INTERSECTION. SEE PLAN FOR NON 90° INSTALLATIONS.



SECTION A-A
(CRT POST)



SECTION B-B
(BEAM GUARD POST)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

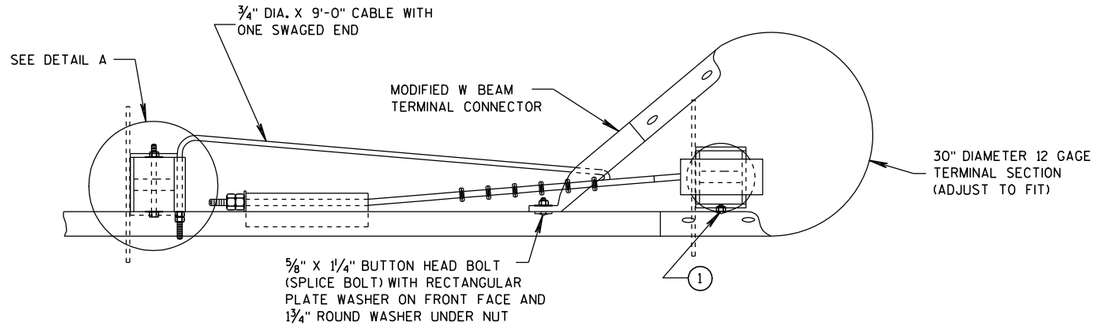
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

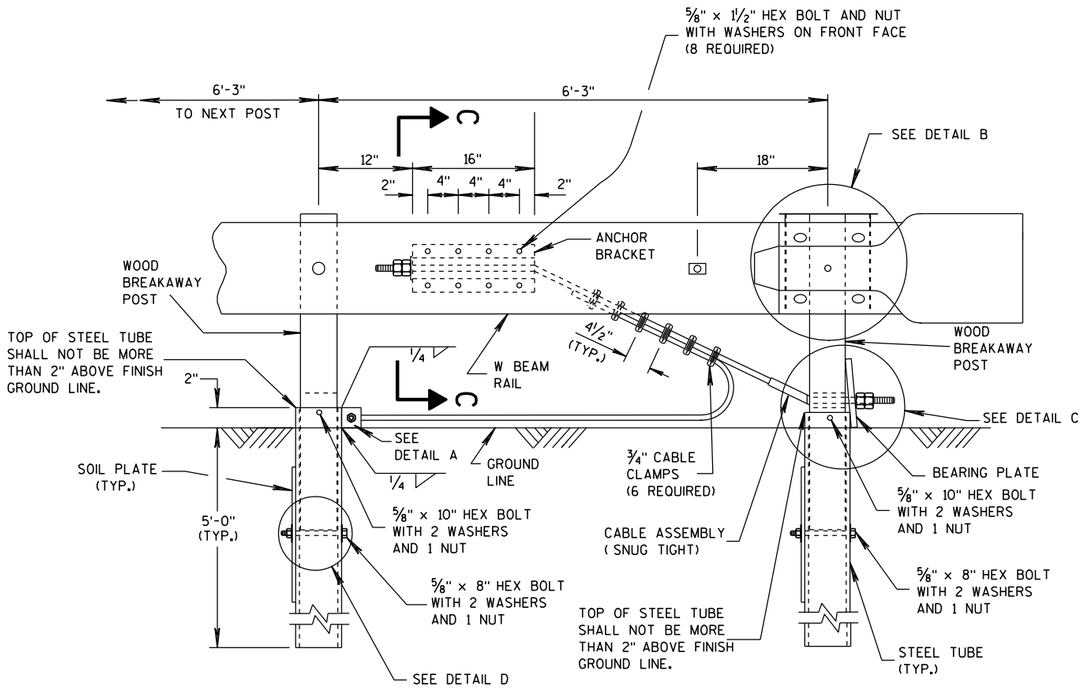
S.D.D. 14 B 27-1a

6

S.D.D. 14 B 27-1a



PLAN VIEW



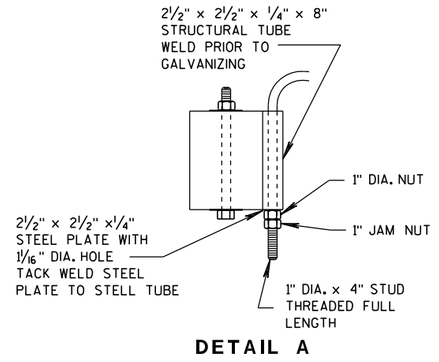
ELEVATION VIEW

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

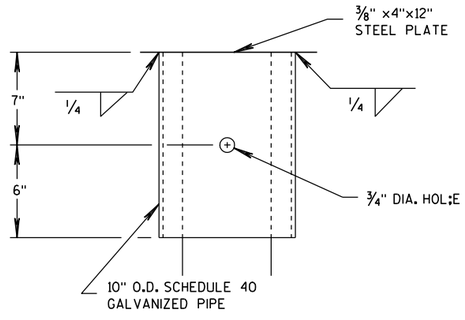
GENERAL NOTES

(1) ATTACH W BEAM RAIL TO THE STEEL PIPE WITH A ⅝" X 2" BUTTON HEAD BOLT WITH NO WASHER. CONNECTION TO THE POST IS NOT REQUIRED.

INSTALL GALVANIZED ¾" (6X19) PREFORMED WIRE OR INDEPENDENT WIRE ROPE CORE CONFORMING TO AASHTO M 30. MANUFACTURE WIRE ROPE OUT OF IMPROVED PLOW STEEL WITH A MINIMUM BREAKING STRENGTH OF 42,800 PSI.



DETAIL A



DETAIL B

(BEAM GUARD AND TERMINAL SECTION NOT SHOWN)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

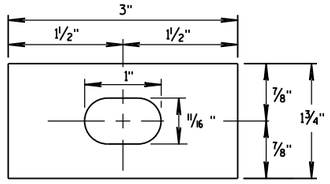
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

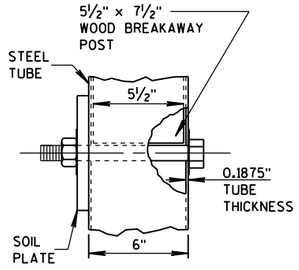
S.D.D. 14 B 27-1b

6

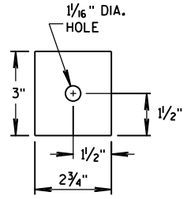
S.D.D. 14 B 27-1b



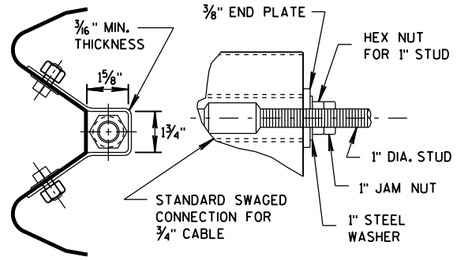
RECTANGULAR PLATE WASHER



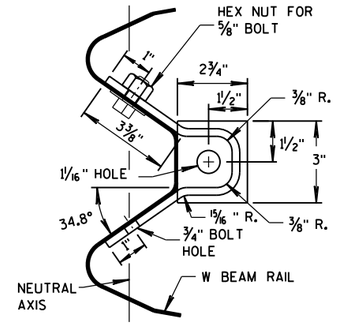
DETAIL D



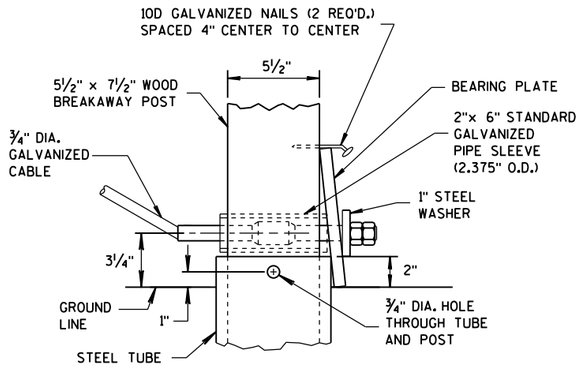
END PLATE



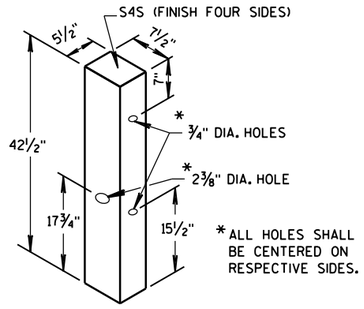
SECTION C-C
(END PLATE REMOVED)



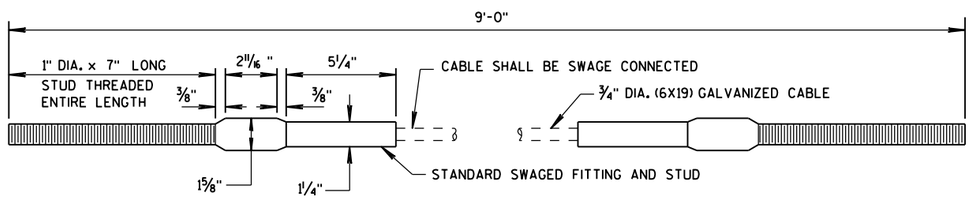
ANCHOR BRACKET



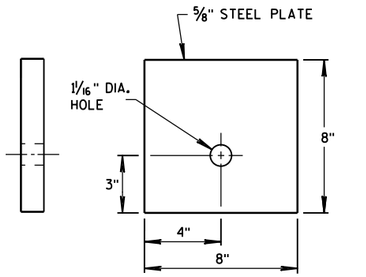
DETAIL C



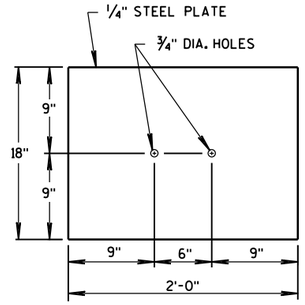
WOOD BREAKAWAY POST



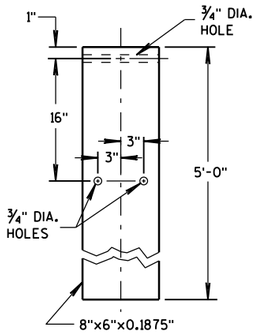
CABLE ASSEMBLY



BEARING PLATE



SOIL PLATE



STEEL TUBE

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/18/08 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 27-1c

6

S.D.D. 14 B 27-1c

GENERAL NOTES

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

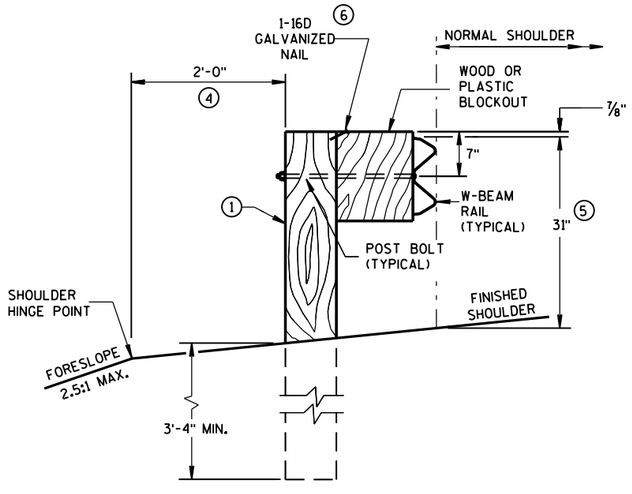
2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

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

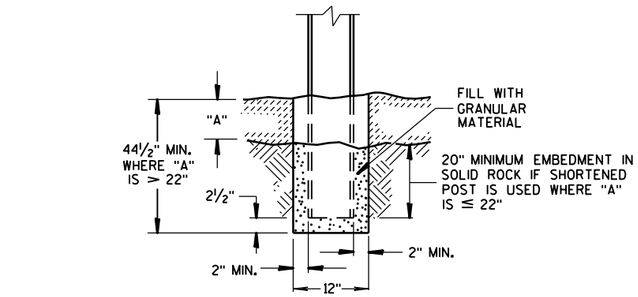
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

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.



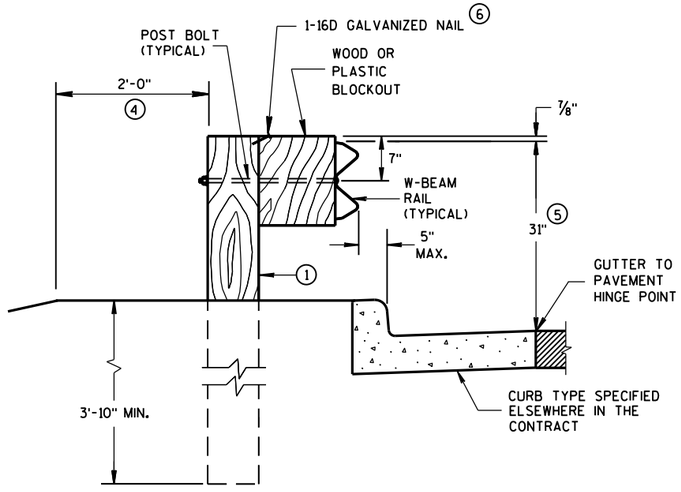
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



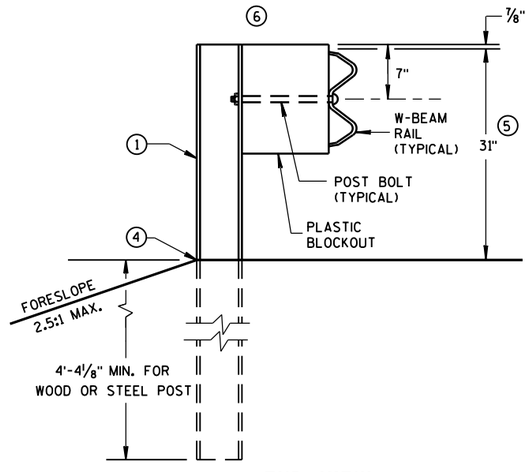
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



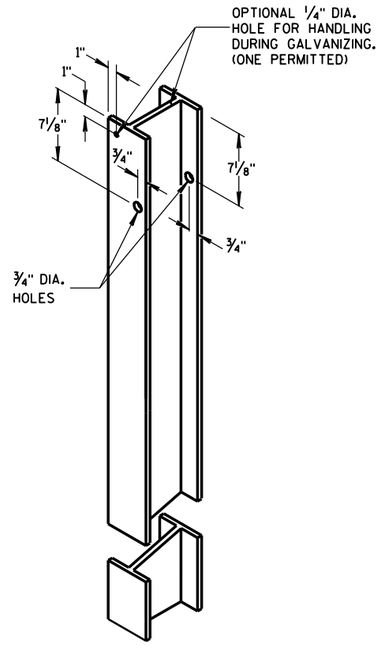
END VIEW

LOCATED ALONG A CURBED ROADWAY

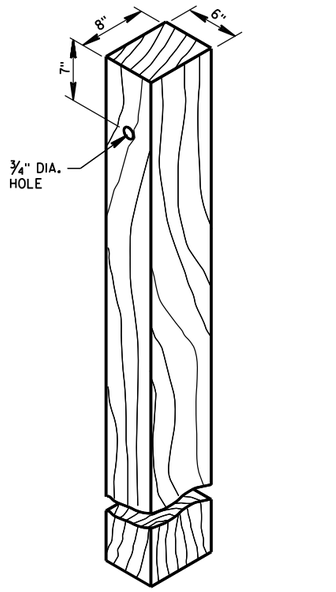


END VIEW

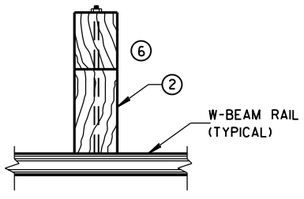
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



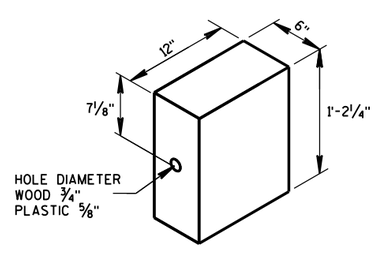
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



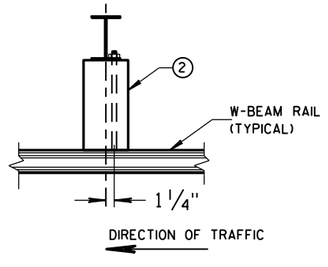
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

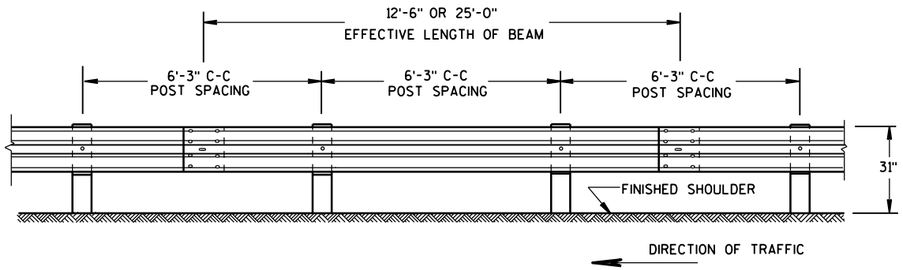


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

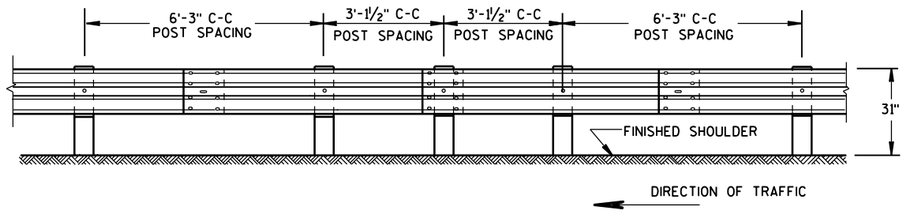
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 42-3a



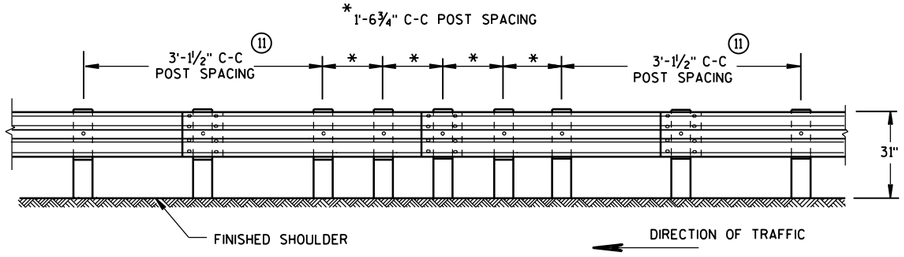
FRONT VIEW

POST SPACING STANDARD INSTALLATION



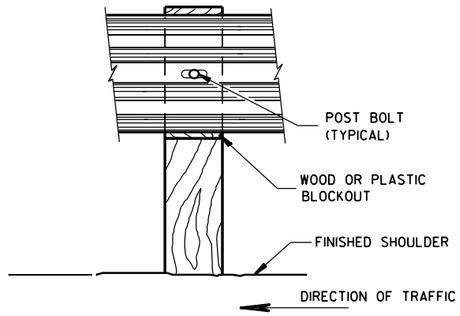
FRONT VIEW

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

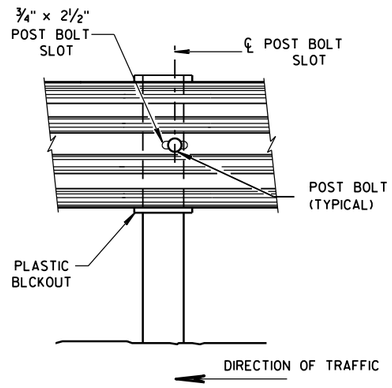


FRONT VIEW

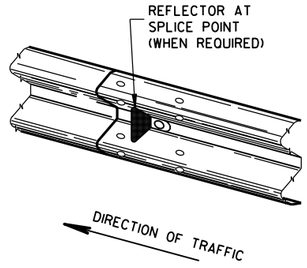
QUARTER POST SPACING (QS)

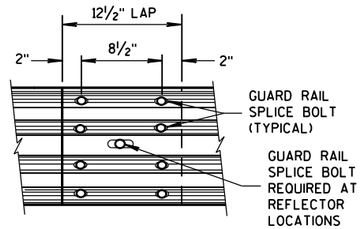


FRONT VIEW AT WOOD POST



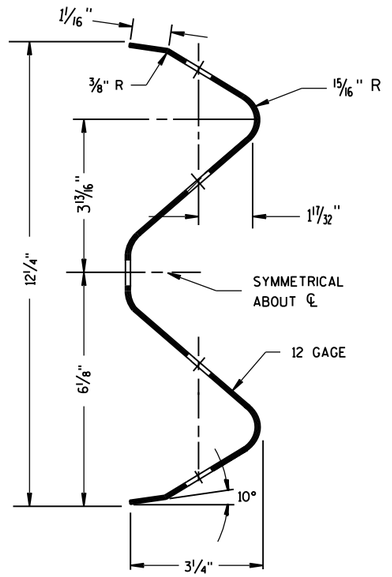
FRONT VIEW AT STEEL POST



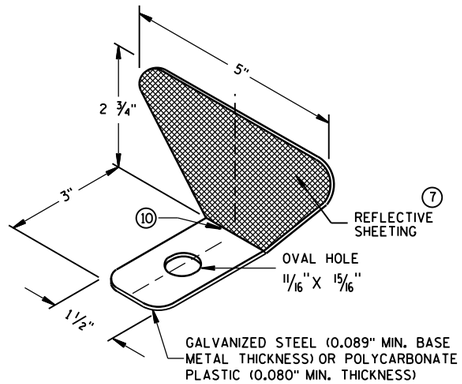


FRONT VIEW

MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL



GENERAL NOTES

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

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

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	

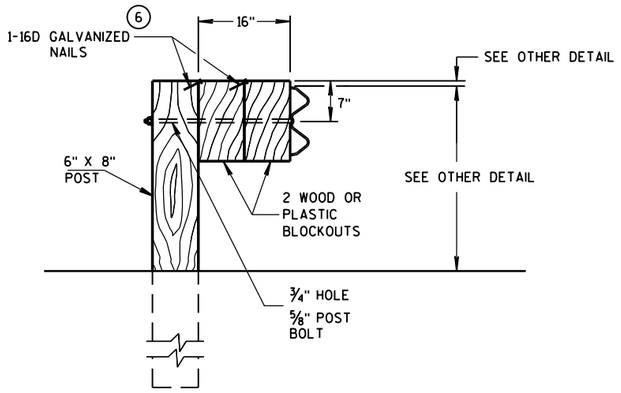
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ⑦

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

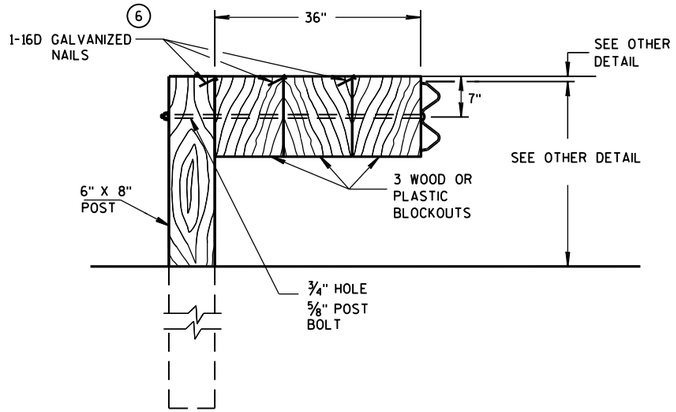
6

S.D.D. 14 B 42-3b



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.

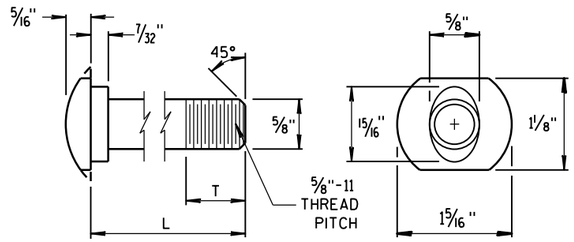


DETAIL FOR 36" BLOCKOUT DEPTH

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.

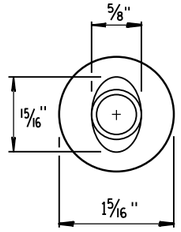
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

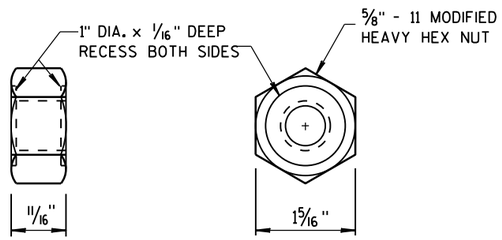


POST BOLT TABLE

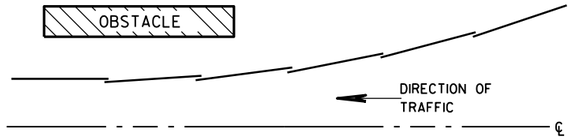
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

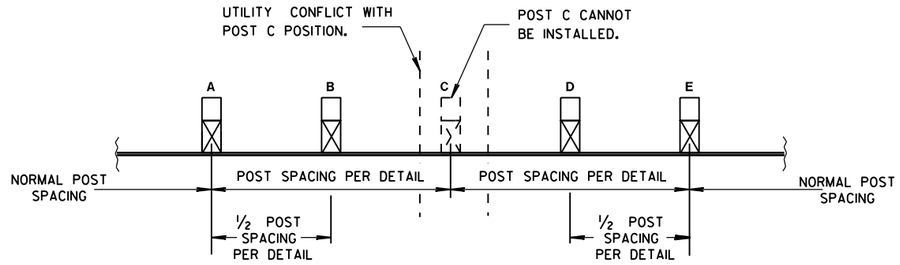


POST BOLT AND RECESS NUT

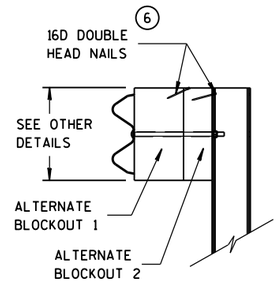


PLAN VIEW

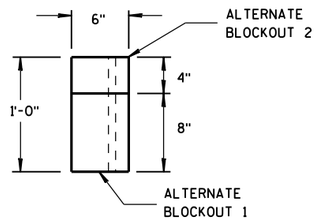
BEAM LAPPING DETAIL



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

6

S.D.D. 14 B 42-3c

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.

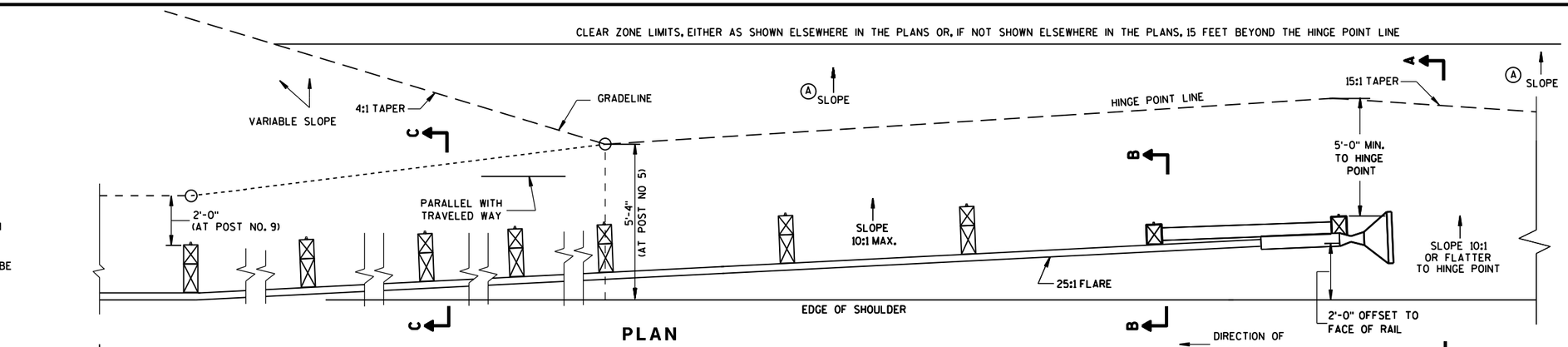
SEE SDD 14B42 FOR MORE INFORMATION.

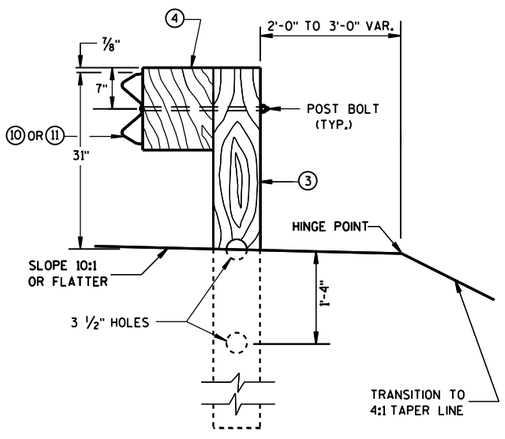
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

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

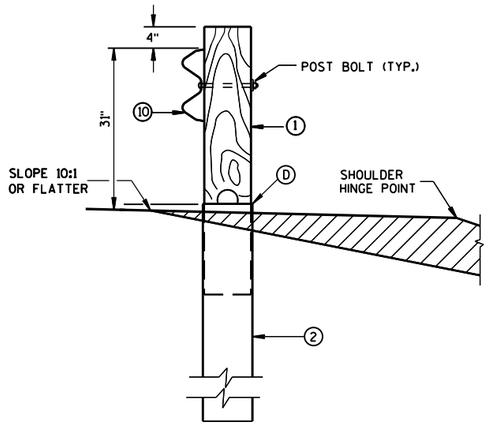
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

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.

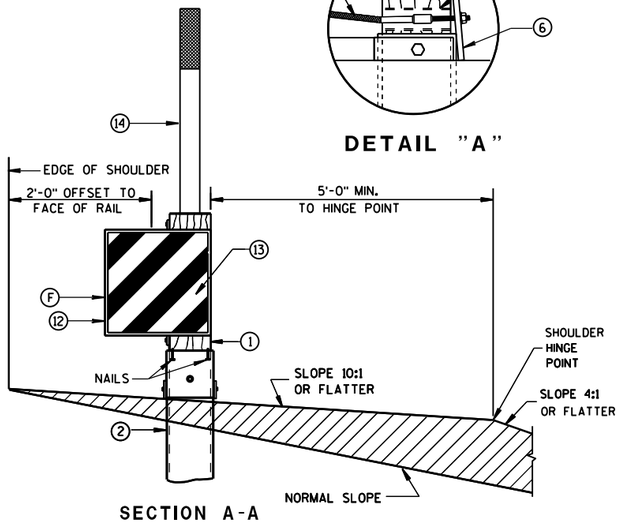




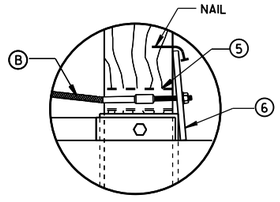
SECTION C-C
TYPICAL AT POST NOS. 3-9



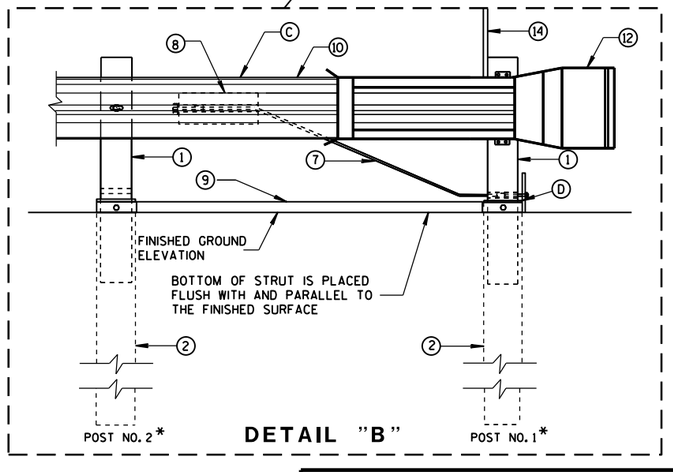
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



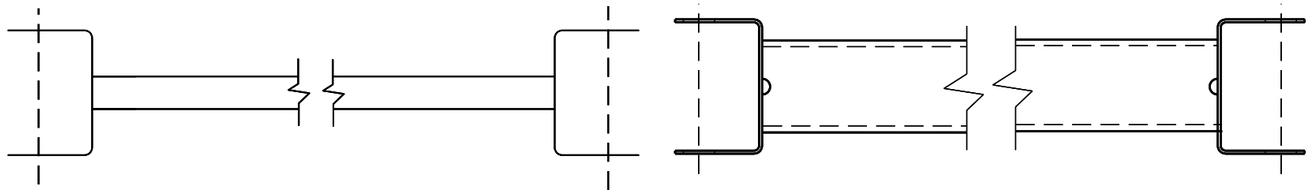
DETAIL "B"

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

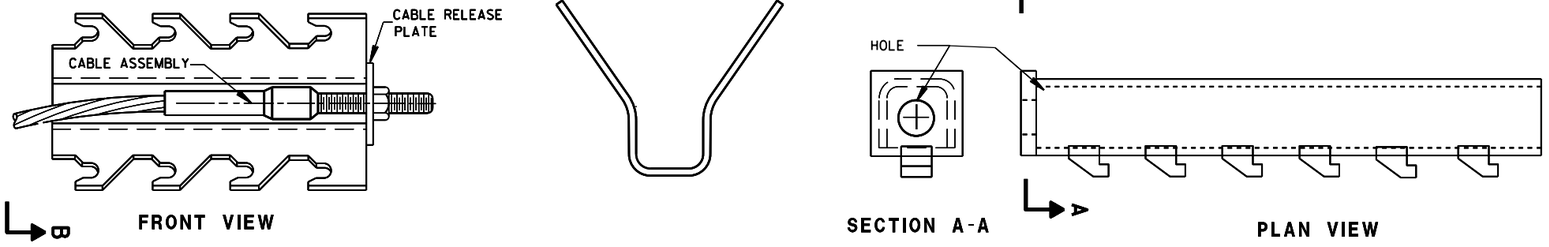


⑨ Ⓗ

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)



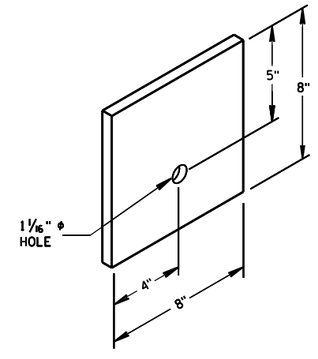
FRONT VIEW

SECTION B-B

SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX ⑧ Ⓗ



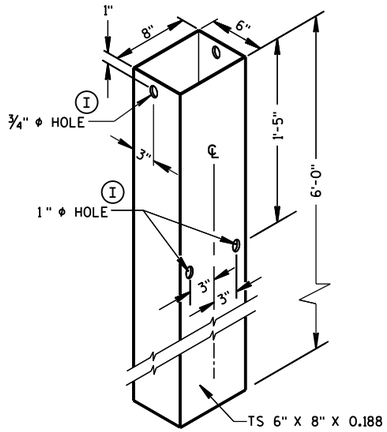
BEARING PLATE ⑥

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

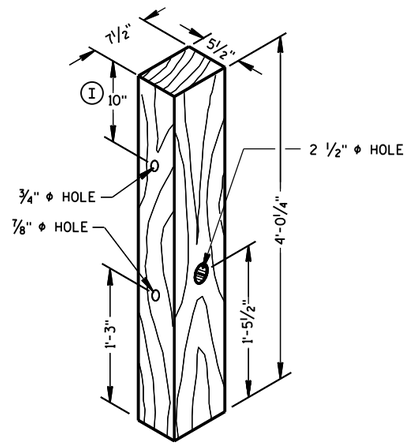
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

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

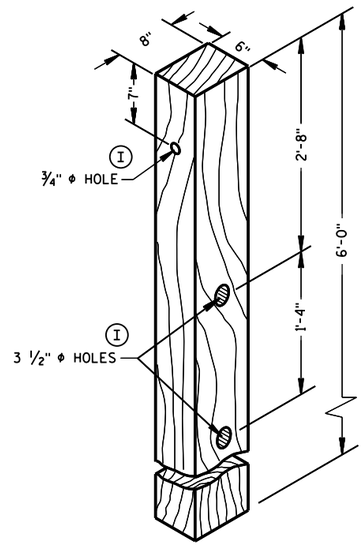


FOUNDATION TUBE (2)



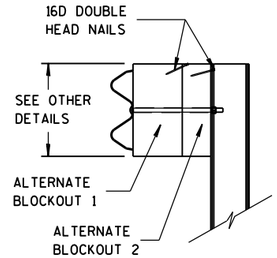
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

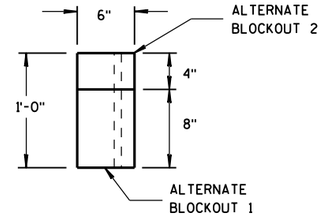


POSTS NUMBER 3-9

WOOD CRT POST (3)

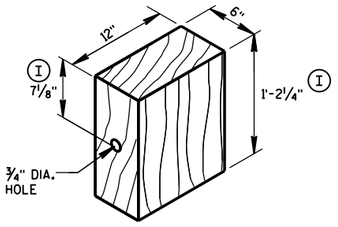


SIDE VIEW



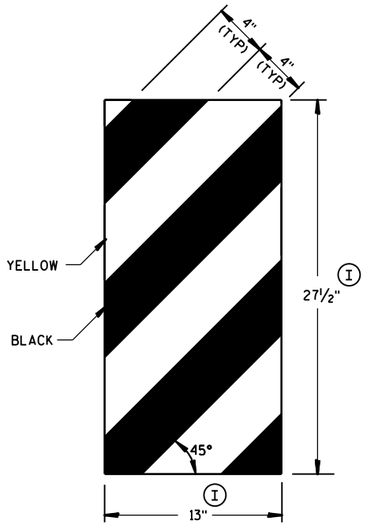
TOP VIEW

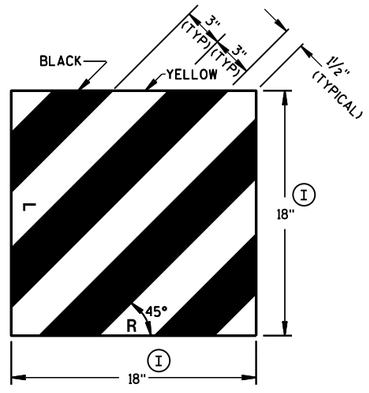
ALTERNATE WOOD BLOCKOUT DETAIL



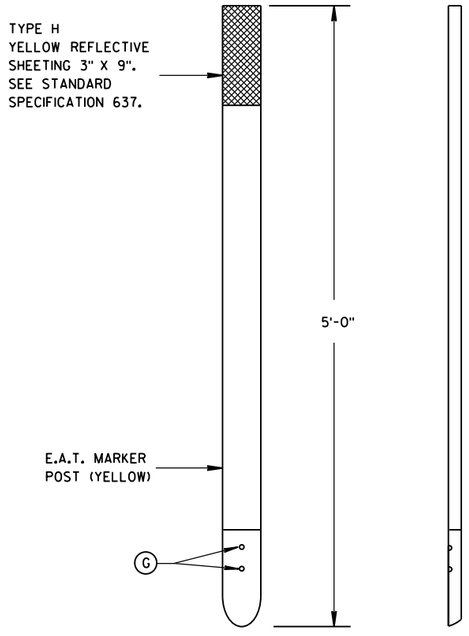
WOOD BLOCKOUT (4)

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





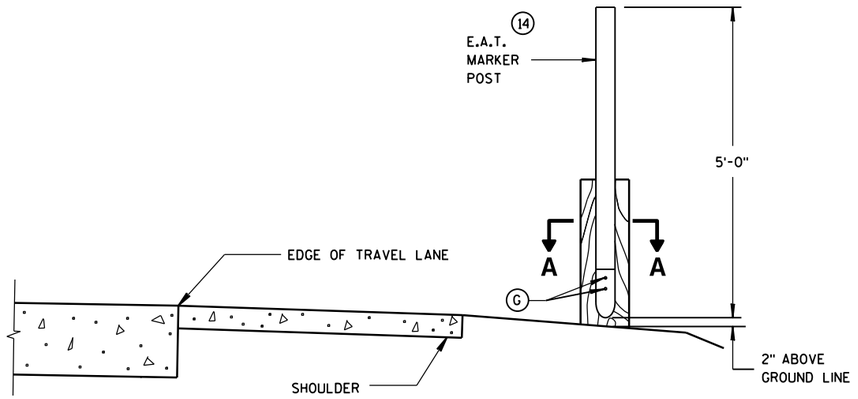
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

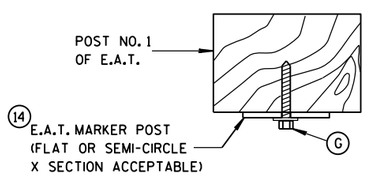
SIDE VIEW

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

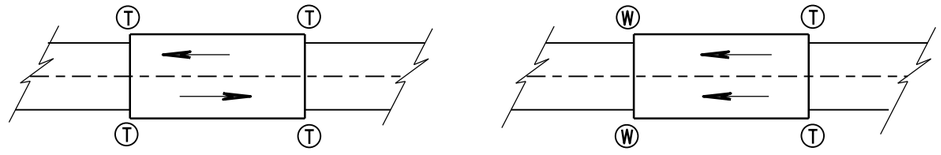
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

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

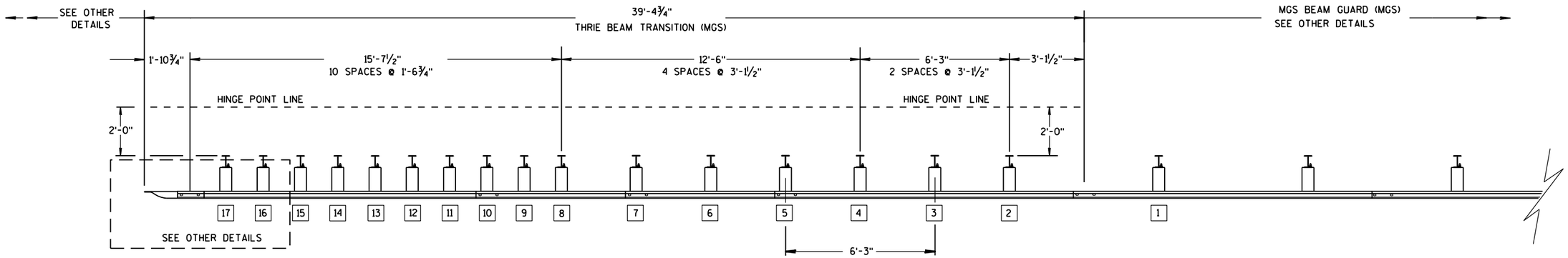
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

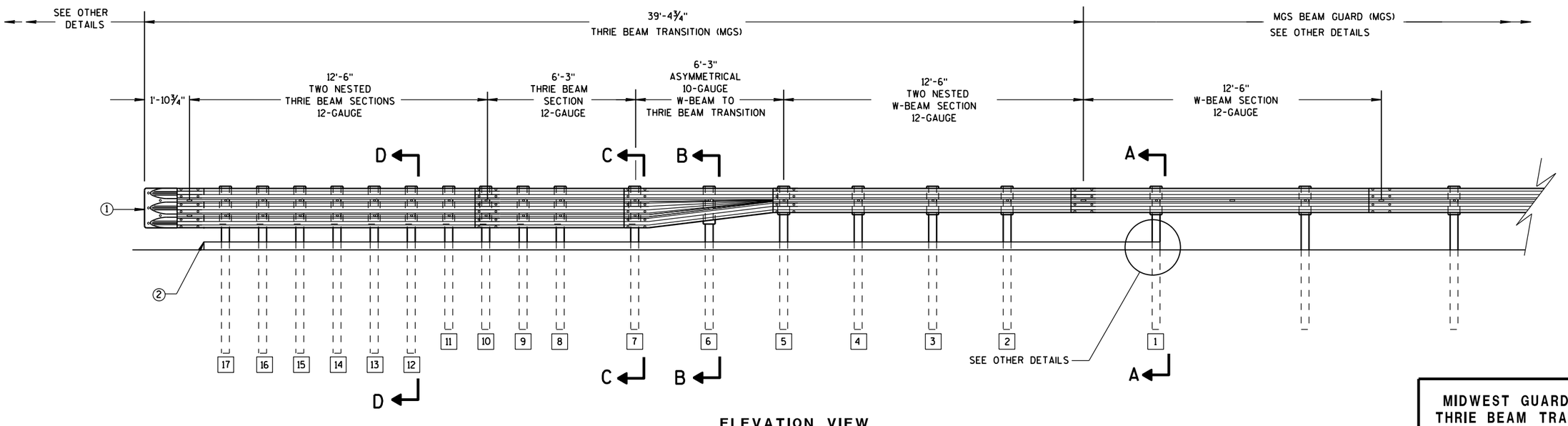
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

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

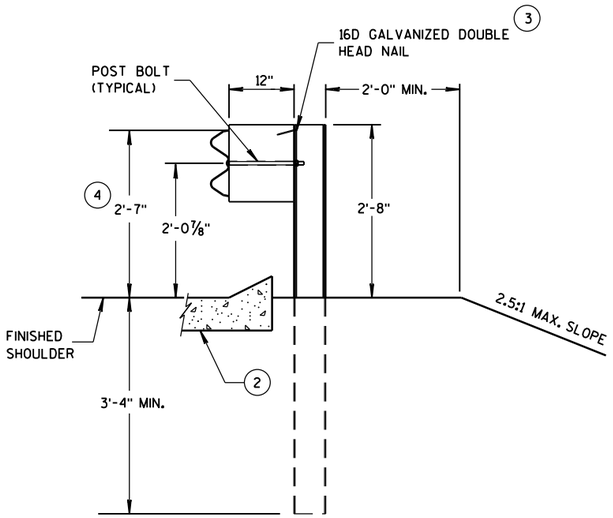
S.D.D. 14 B 45-4a

GENERAL NOTES

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

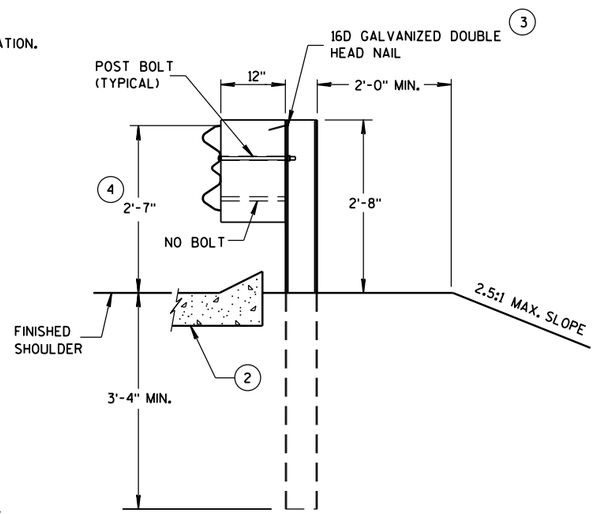
(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

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



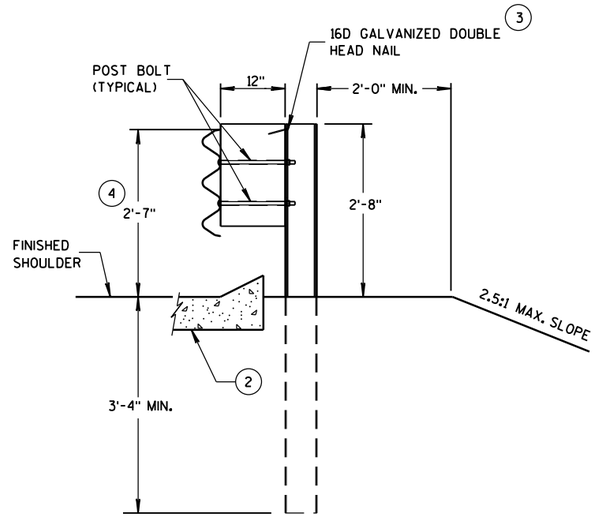
SECTION A-A

POSTS 1-5



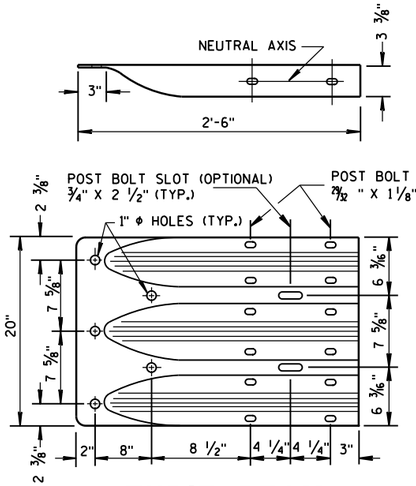
SECTION B-B

POST 6



SECTION C-C

POSTS 7-11



THRIE BEAM TERMINAL CONNECTOR

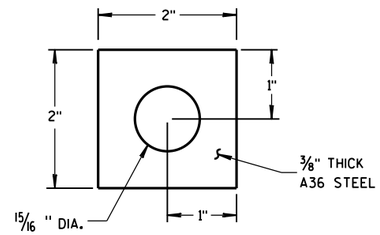
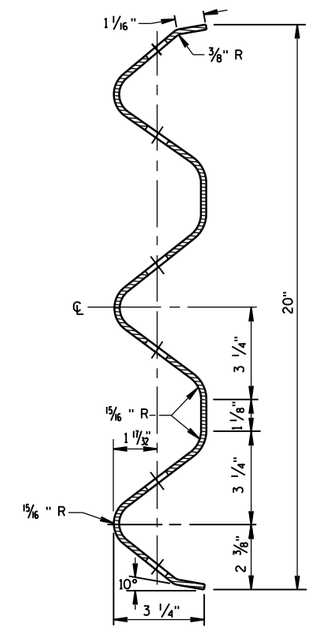
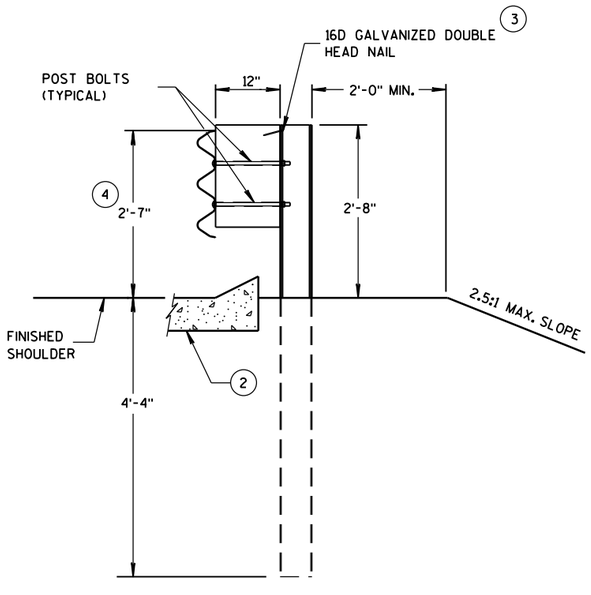


PLATE WASHER DETAIL

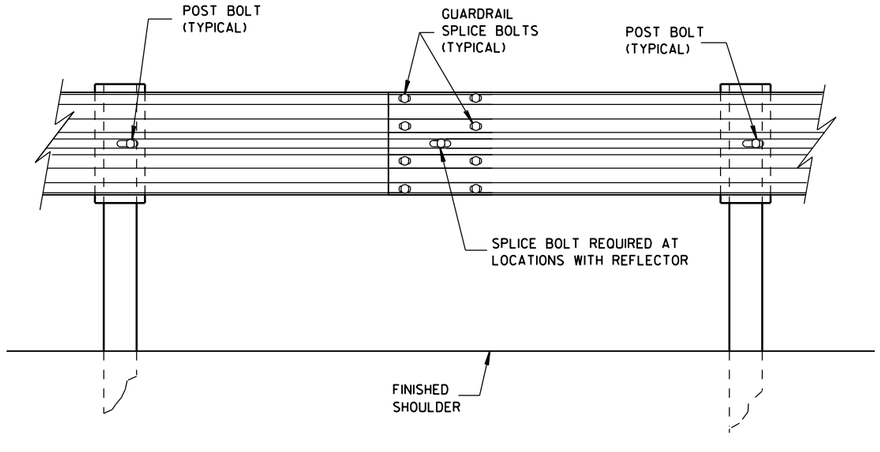


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-17



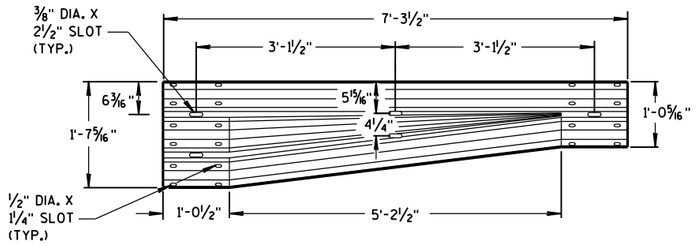
SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

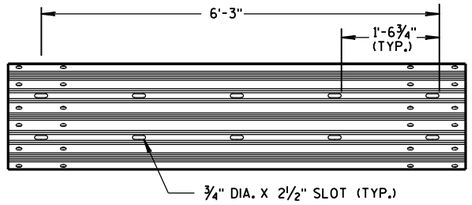
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

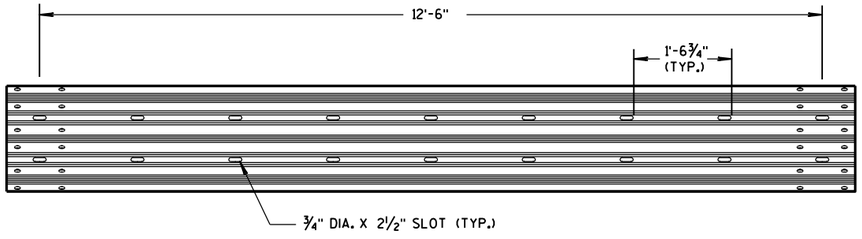
S.D.D. 14 B 45-4b



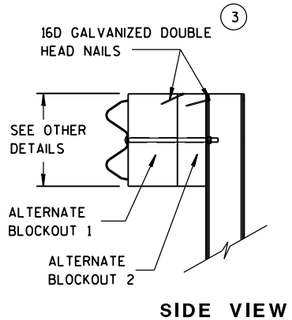
W-BEAM TO THRIE BEAM TRANSITION SECTION



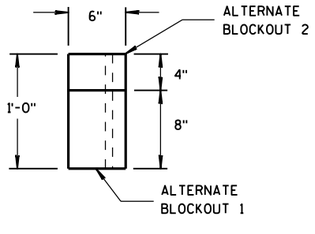
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

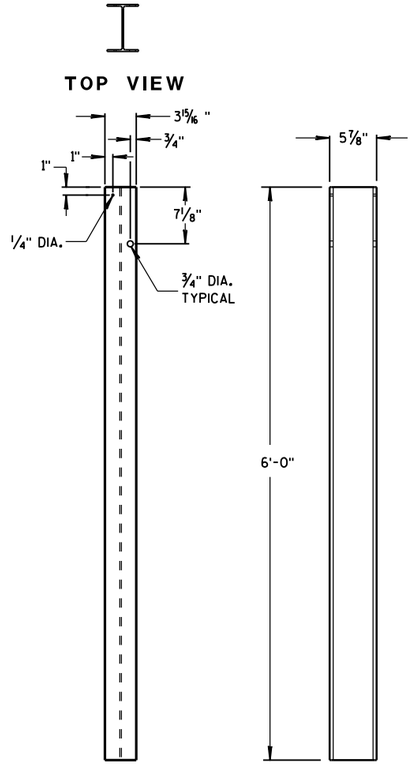


SIDE VIEW



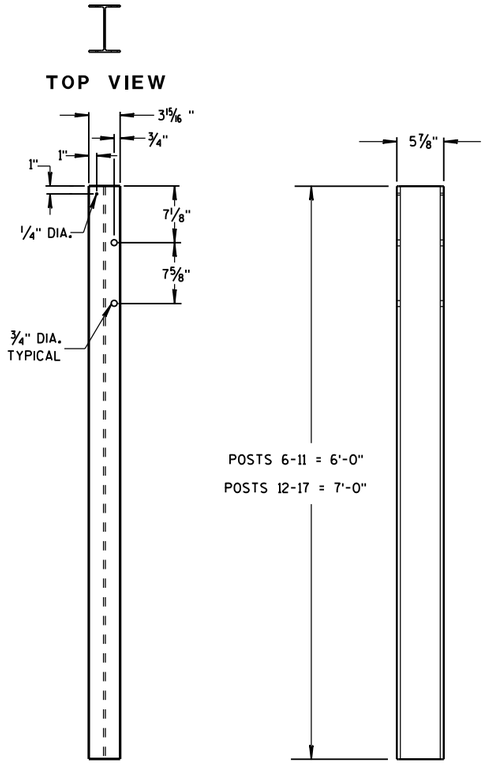
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



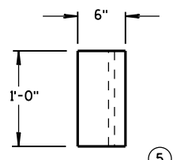
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5

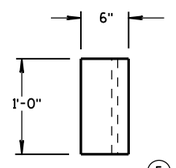


FRONT VIEW SIDE VIEW

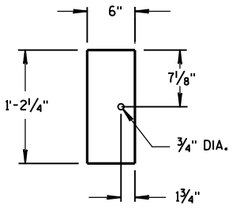
STEEL POSTS 6-17



TOP VIEW

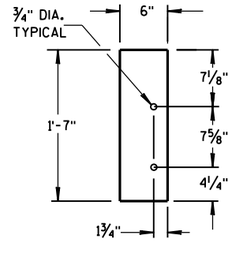


TOP VIEW



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.

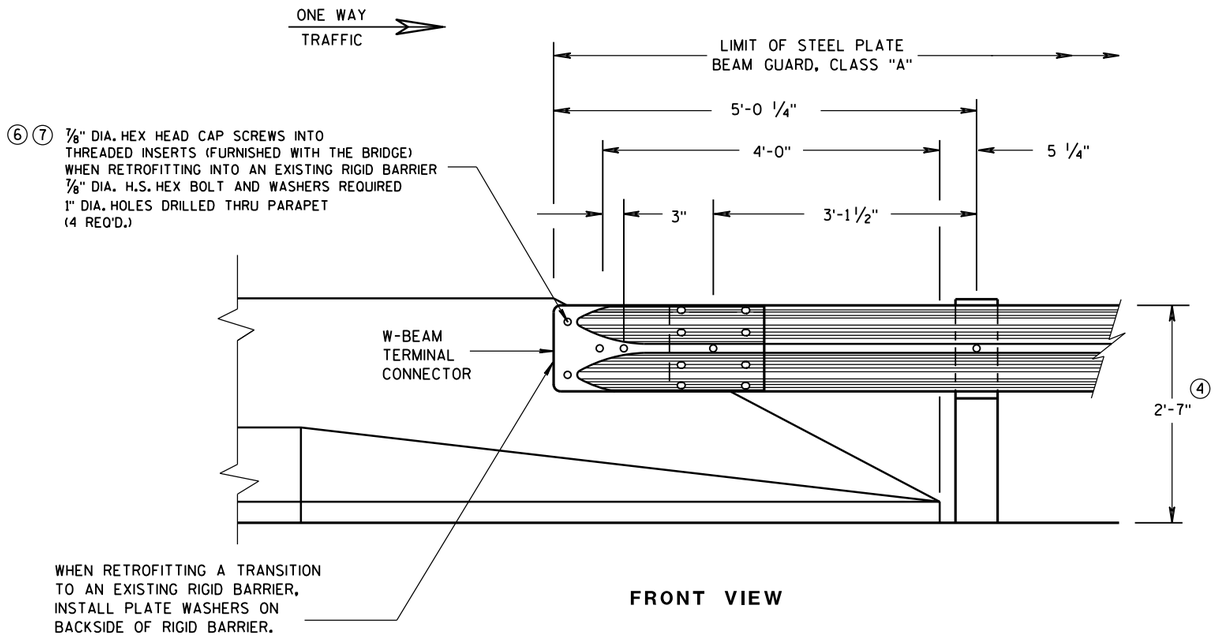
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

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



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

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

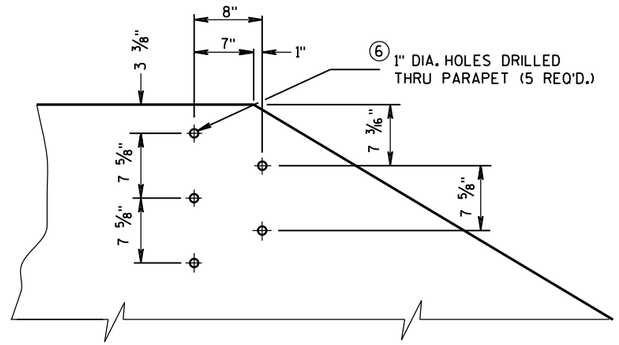
GENERAL NOTES

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

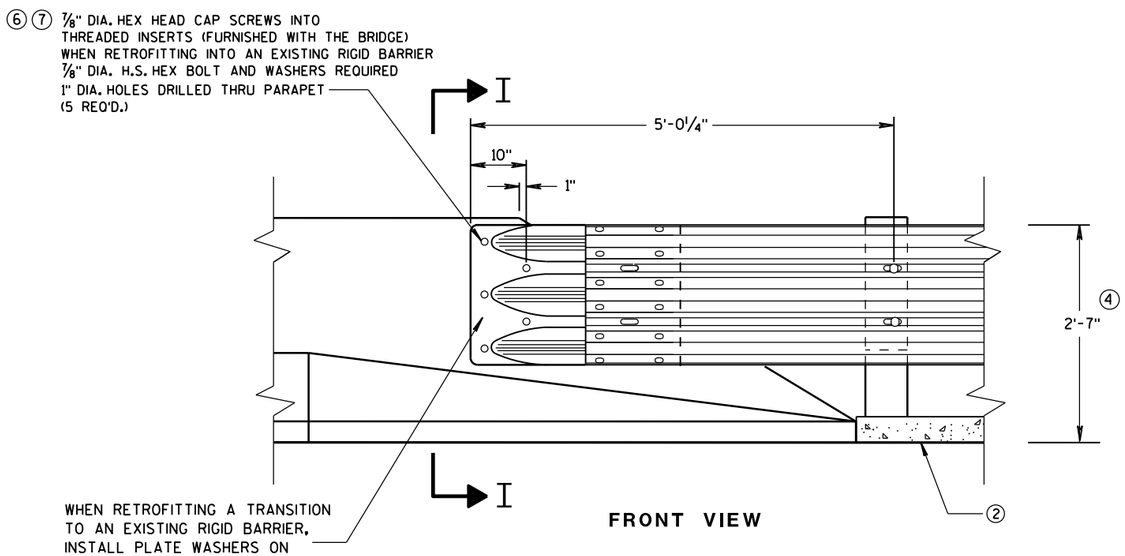
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

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

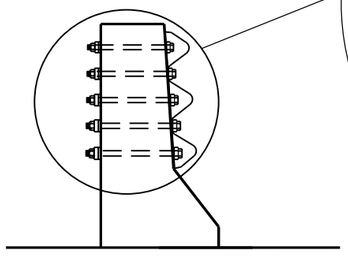
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. 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.



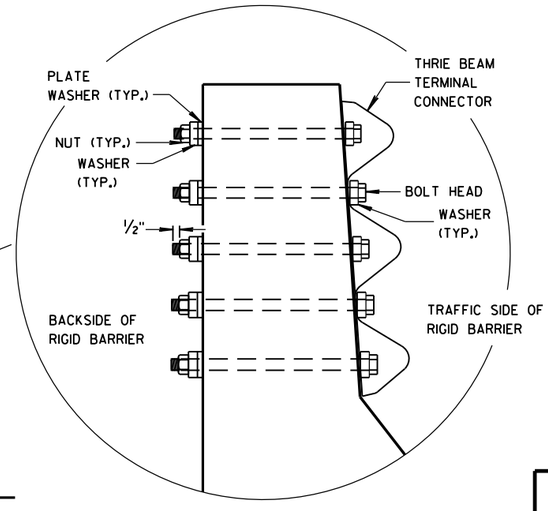
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

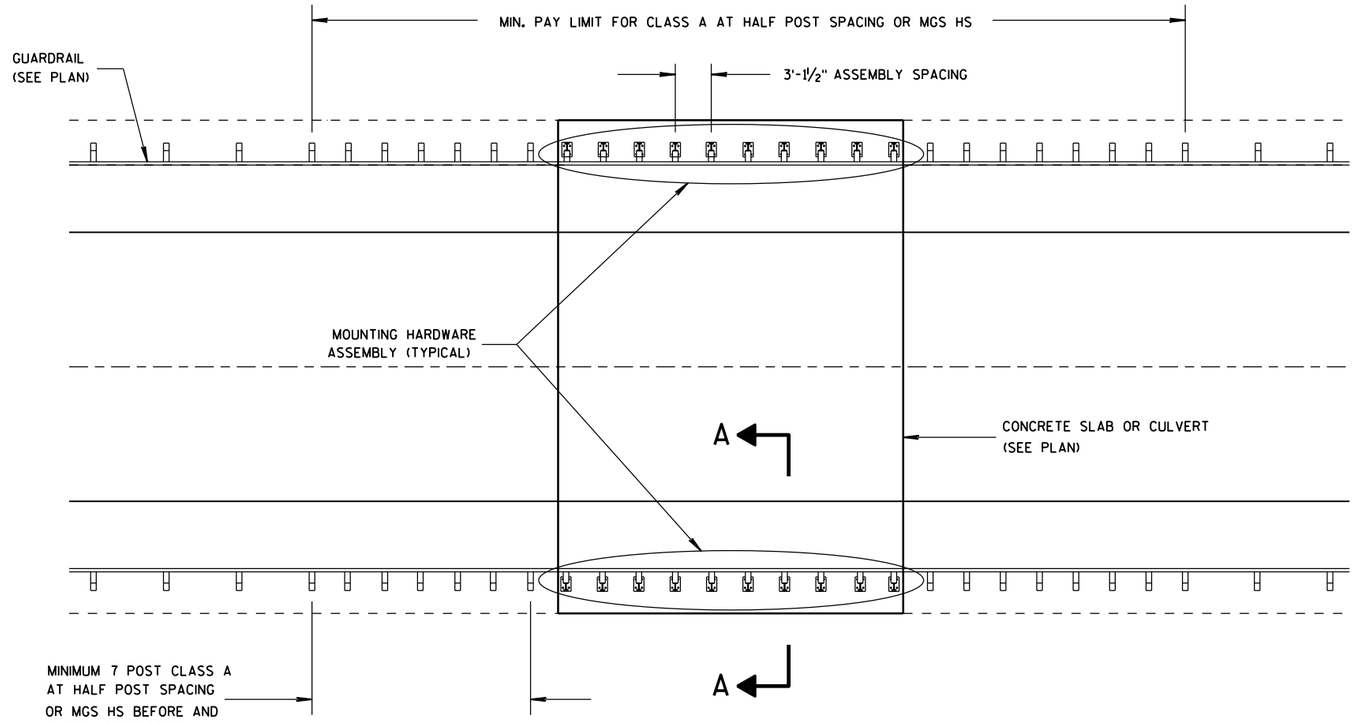
APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

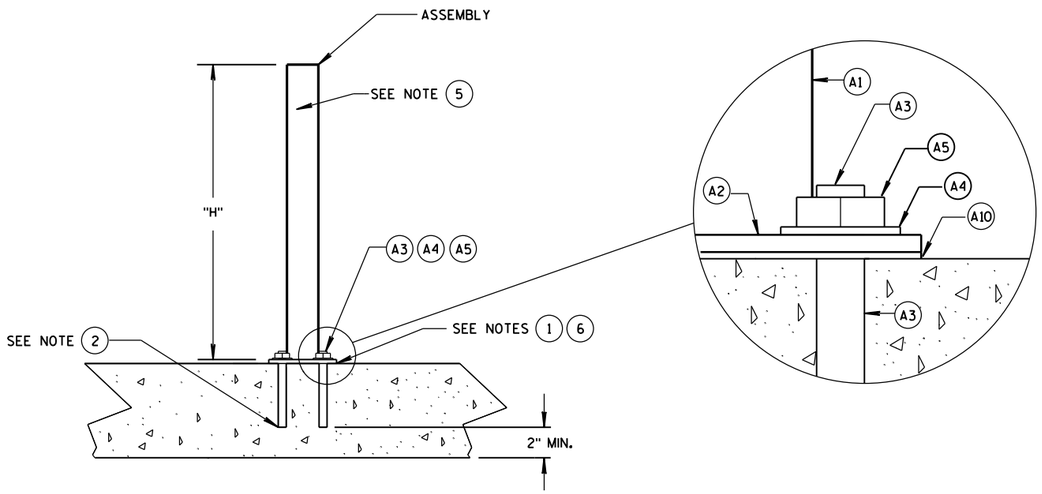
S.D.D. 14 B 45-4f

6

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

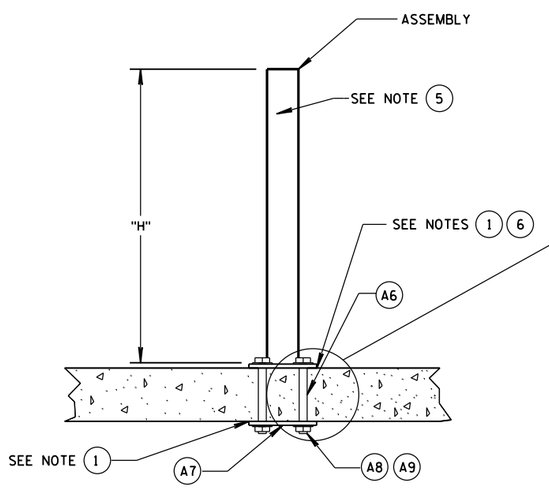


PLAN VIEW



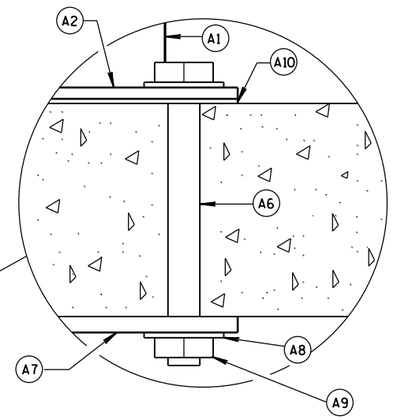
ADHESIVE ANCHOR DETAIL

SEE NOTE 4



BOLT THROUGH DETAIL

SEE NOTE 4



GENERAL NOTES

HOLES DRILLED INTO CONCRETE SLAB OR CULVERT ARE 1⅛-INCH DIAMETER.

POST BASE PLATE (AND BOTTOM PLATES IF USED) SHALL BE FLAT WITH ALL SURFACES SMOOTH, AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS. CUT BOTTOM OF POST SO THAT POST WILL BE VERTICAL WHEN POST ASSEMBLY IS PLACED ON TOP OF CONCRETE. HEX BOLTS AND THREADED RODS ARE TO BE PLACED PERPENDICULAR TO THE BASE PLATE.

"H" DIMENSION WILL VARY. SEE PLAN FOR "H" DIMENSION. CONTRACTOR HAS OPTION OF INSTALLING POSTS THAT ARE TALLER THAN "H" DIMENSION AND CUT POSTS TO PROPER "H" DIMENSION IN THE FIELD. IF ELECTING TO FIELD CUT POSTS, DRILL HOLES AT APPROPRIATE LOCATIONS AND APPLY GALVANIZATION.

GALVANIZE STEEL COMPONENTS AFTER FABRICATION PER SECTION 614 OF THE WISCONSIN DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS.

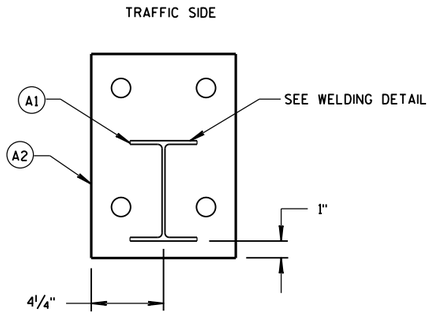
INSTALL 1 NUT AND 1 WASHER WHERE APPLICABLE. PROVIDE SUFFICIENT LENGTH OF BOLT OR THREADED ROD TO ALLOW FOR ¼-INCH TO ½-INCH OF THREAD TO BEYOND THE NUT.

1. PLACE NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER ON THE BOTTOM (A2) AND IN DRILL HOLES FOR BOLT THROUGH OPTION.
2. BOND STRENGTH OF ADHESIVE IS 1,305 PSI OR GREATER WITH A MINIMUM EMBEDMENT DEPTH OF 8-INCHES. IF MINIMUM EMBEDMENT CANNOT BE ACHIEVED BOLT THROUGH STRUCTURE.
3. USE GAS-METAL ARC WELDING (GMAW) PROCESS WITH ER70S-3 WELDING WIRE AND ARGON-OXYGEN OR CO2 COVER GAS.
4. OTHER COMPONENT OF BARRIER SYSTEM NOT SHOWN. SEE OTHER STANDARD DETAIL DRAWINGS. SEE SDD 14 B 15 OR SDD 14 B 42 FOR MORE DETAILS.
5. HOLES TO MOUNT BEAM GUARD AND BLOCK NOT SHOWN ON DRAWINGS. SEE OTHER STANDARD DETAIL DRAWINGS. SEE SDD 14 B 15 OR SDD 14 B 42 FOR MORE DETAILS.
6. ADD AND ADJUST SHIM PLATES AS NECESSARY TO INSTALL POST PLUMB. SEE (A10) FOR DETAIL.

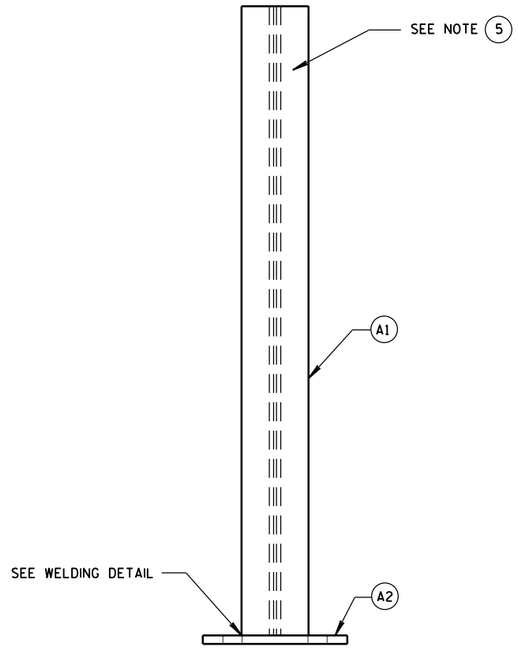
ANCHOR POST ASSEMBLY TOP-MOUNTED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

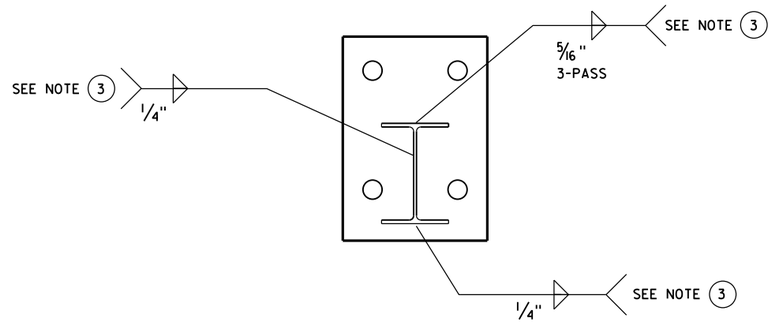
6
S.D.D. 14 B 51-1a



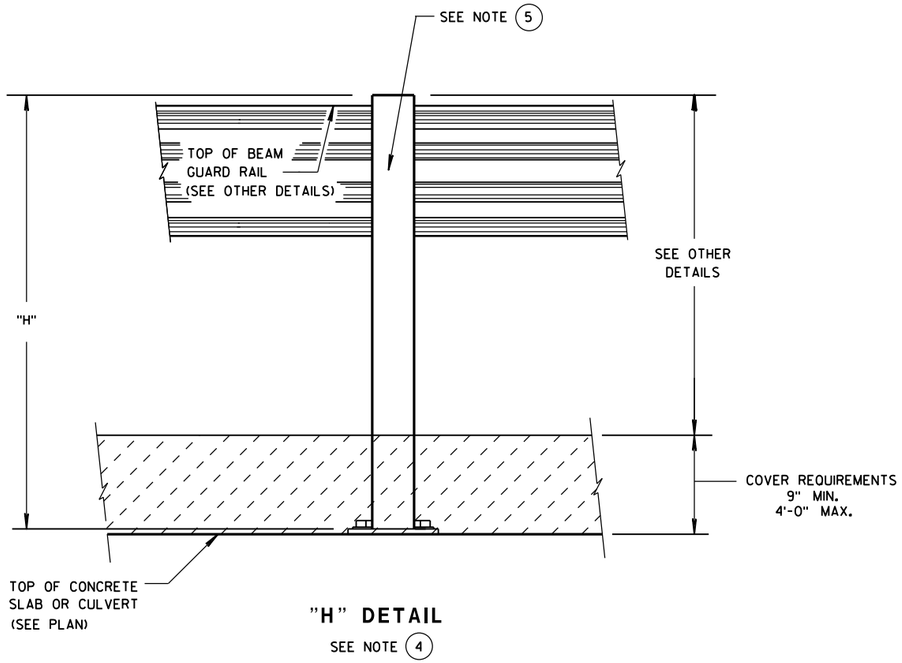
PLAN VIEW OF ASSEMBLY



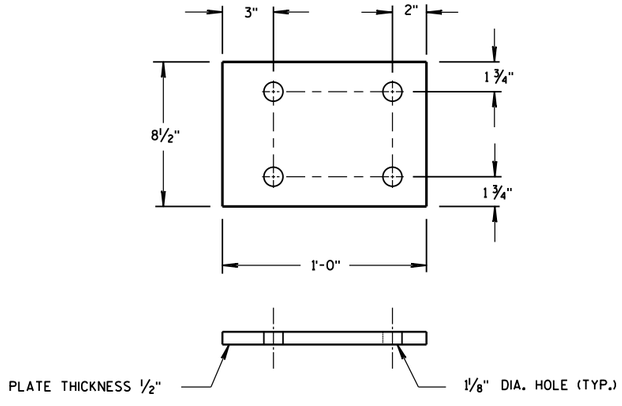
PROFILE VIEW OF ASSEMBLY



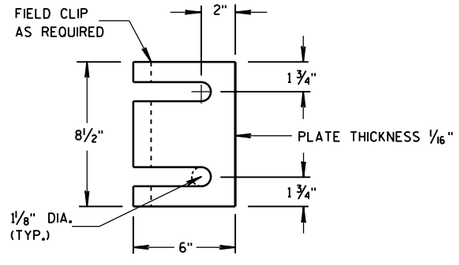
WELDING DETAIL



"H" DETAIL
SEE NOTE (4)



A2 DETAILS



A10 DETAILS

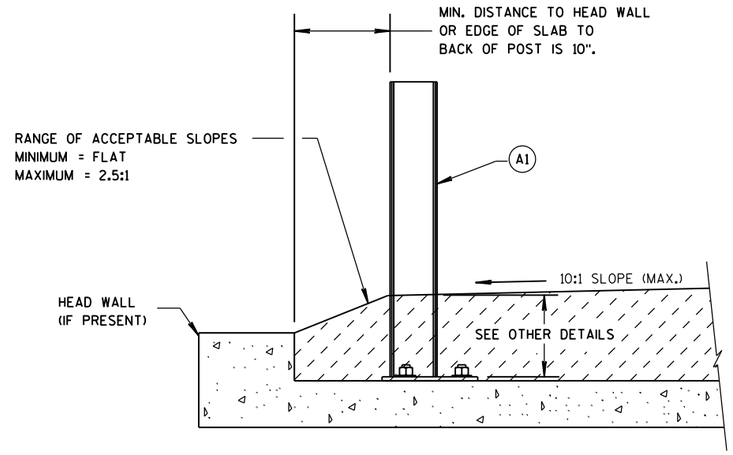
ANCHOR POST
ASSEMBLY TOP-MOUNTED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 51-1b

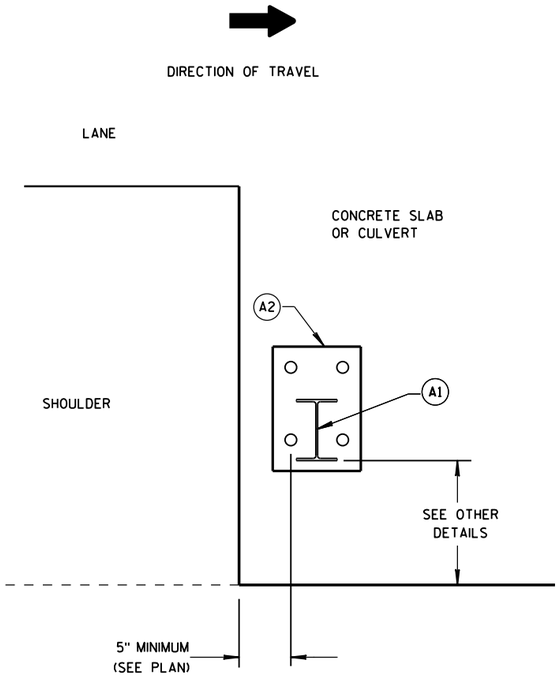
MATERIALS LIST

ITEM	DESCRIPTION	MATERIAL SPECIFICATIONS	NOTES
(A1)	W6x9 or W6x8.5	ASTM A992, 50 KSI MIN. ASTM A709 GRADE 50 OR ASTM A36	SEE SDD 14B15 OR 14B42 LENGTH WILL VARY
(A2)	STEEL BASE PLATE	ASTM A992 50 KSI MIN., ASTM A529 GRADE 50, ASTM A572 GRADE 50, OR ASTM A36	
(A3)	1" DIA. THREADED ROD	SAE J429 GRADE 2, ASTM A307 GRADE C, OR ASTM F1554 GRADE 36	LENGTH WILL VARY
(A4)	1" DIA. FLAT WASHER	ASTM F844	
(A5)	1" HEX NUT	ASTM A563A	
(A6)	1" DIA. HEX BOLT	ASTM A307	LENGTH WILL VARY
(A7)	PLATE WASHER	ASTM A992 50 KSI MIN., ASTM A529 GRADE 50, ASTM A572 GRADE 50, OR ASTM A36	
(A8)	1" DIA. FLAT WASHER	ASTM F844	
(A9)	1" DIA. HEX NUT	ASTM A563A	
(A10)	SHIM PLATE	SEE (A2)	4 MAX PER POST



SECTION A-A

SEE NOTE (4)



EDGE PLACEMENT

SEE NOTE (4)

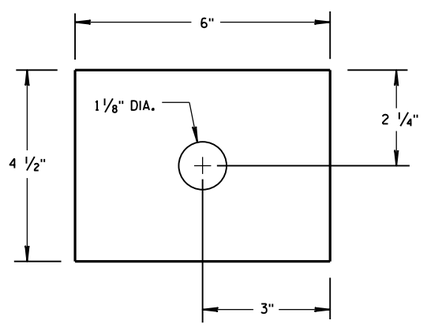
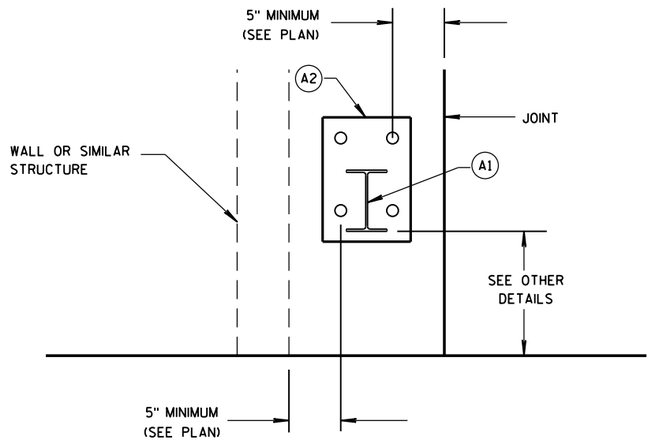


PLATE WASHER - (A7)



OBSTRUCTION AND JOINT PLACEMENT

SEE NOTE (4)

ANCHOR POST ASSEMBLY TOP-MOUNTED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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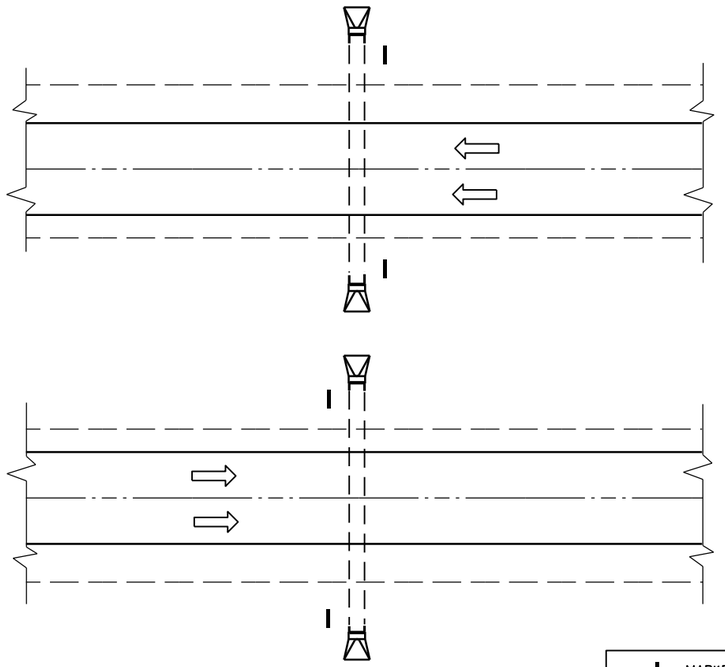
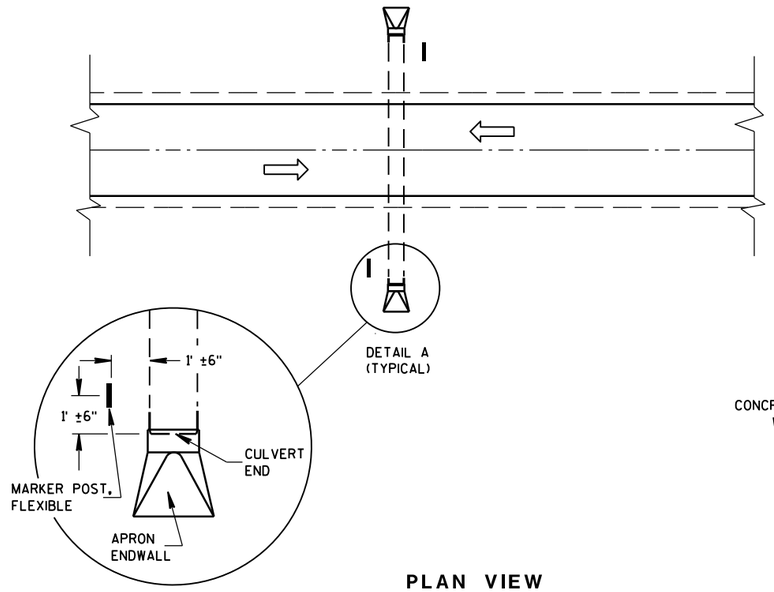
S.D.D. 14 B 51-1c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

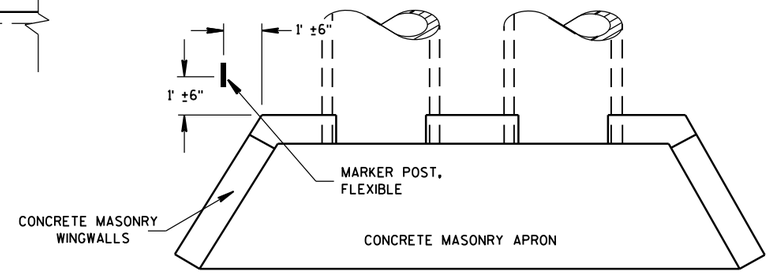
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

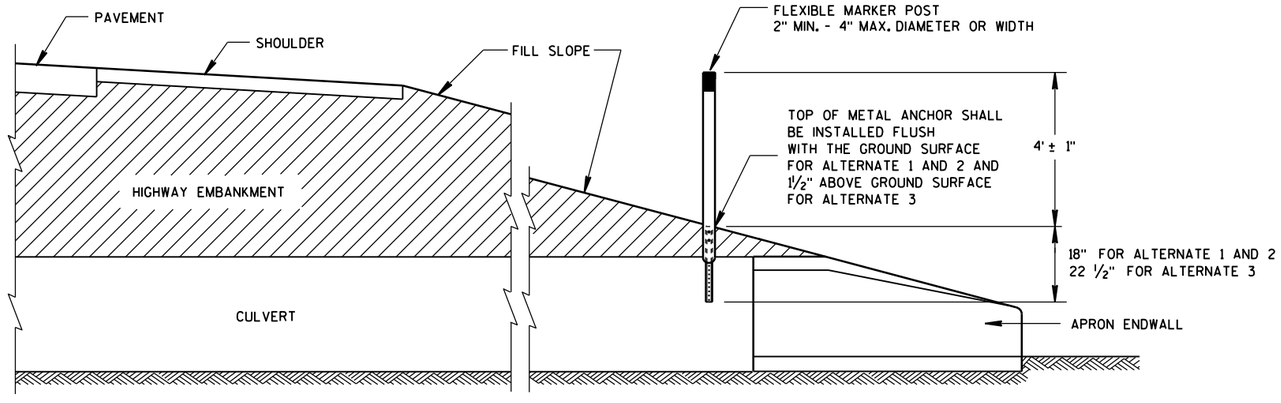
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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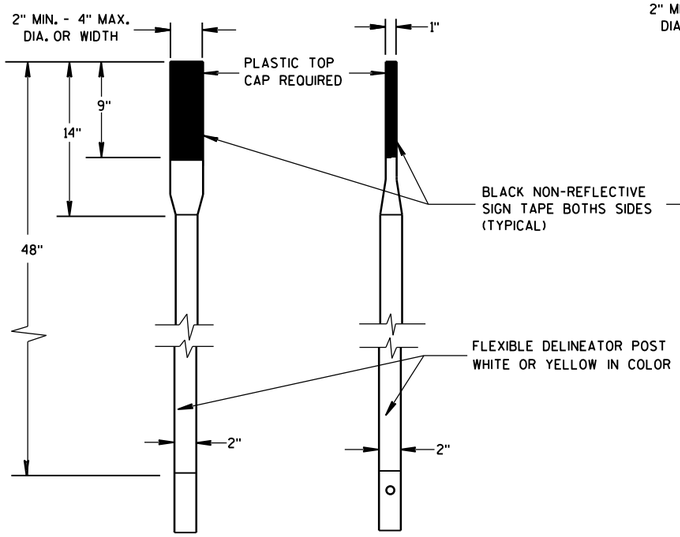
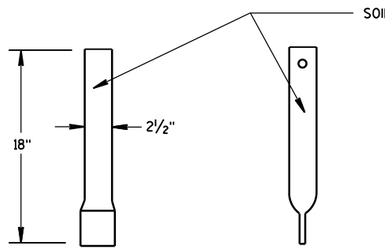
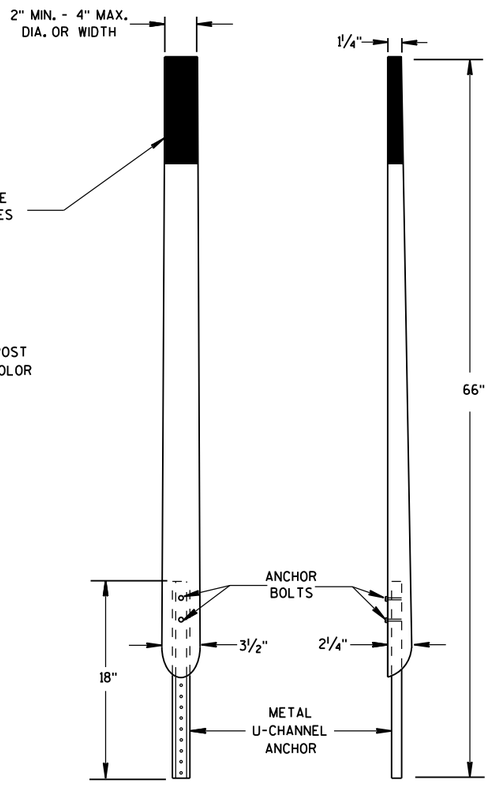
S.D.D. 15 A 3-2a





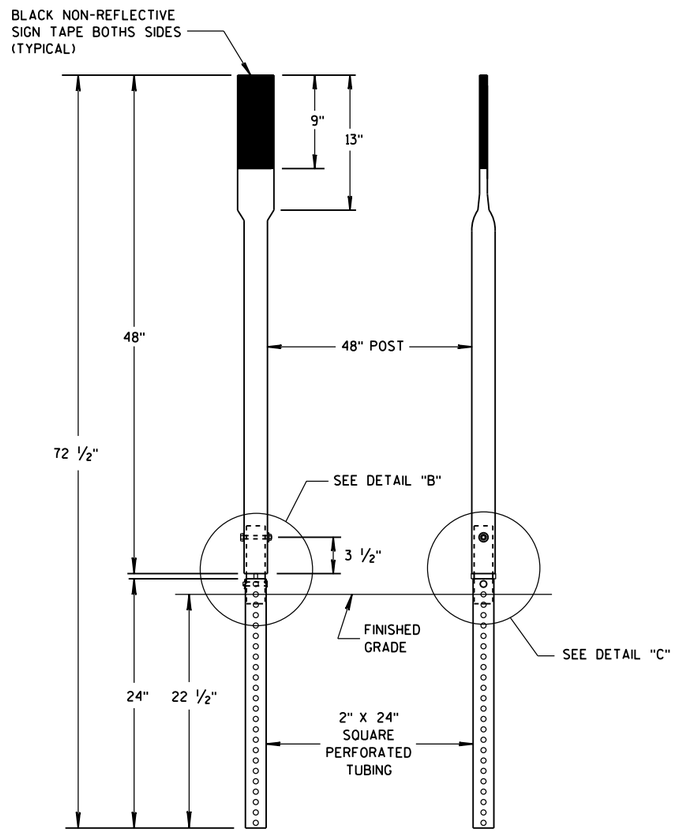
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

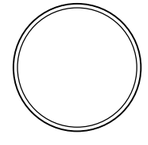
ALTERNATE 2



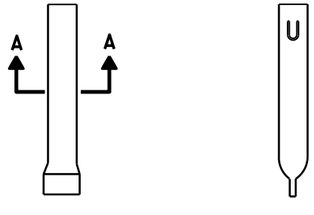
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

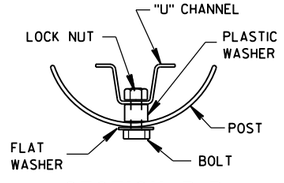


SECTION A-A

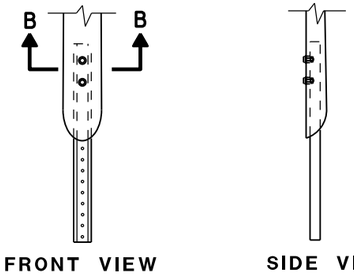


FRONT VIEW SIDE VIEW

ALTERNATE 1

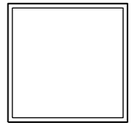


SECTION B-B

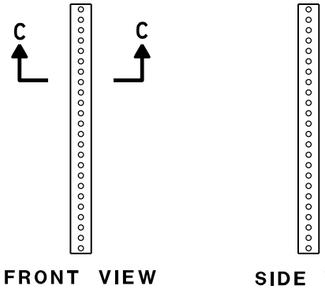


FRONT VIEW SIDE VIEW

ALTERNATE 2



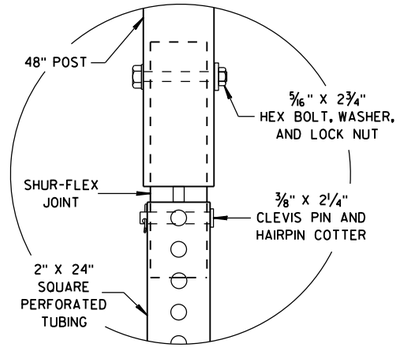
SECTION C-C



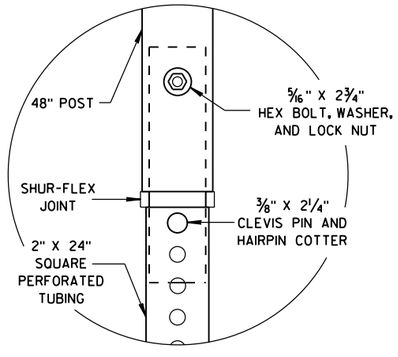
FRONT VIEW SIDE VIEW

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

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

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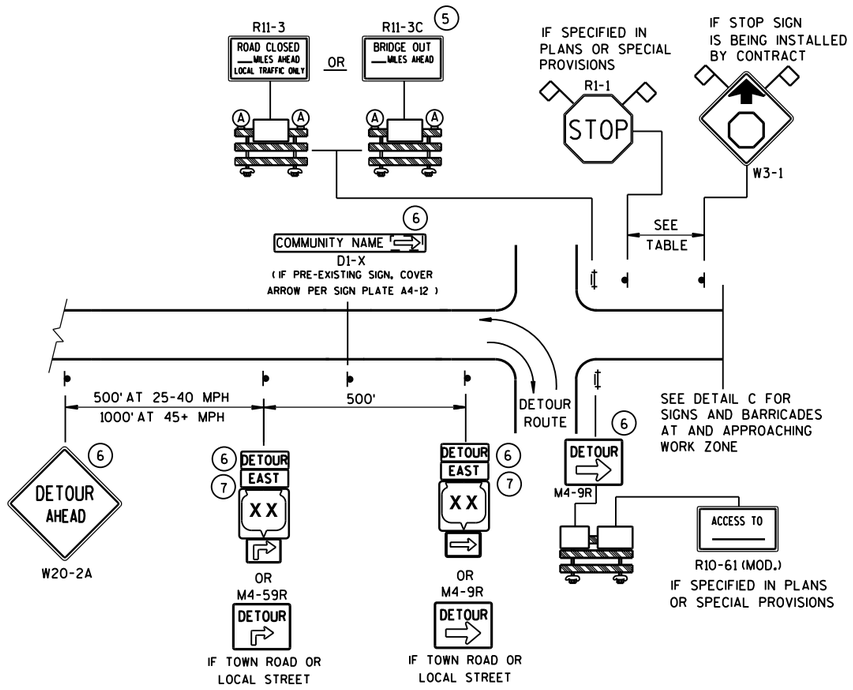
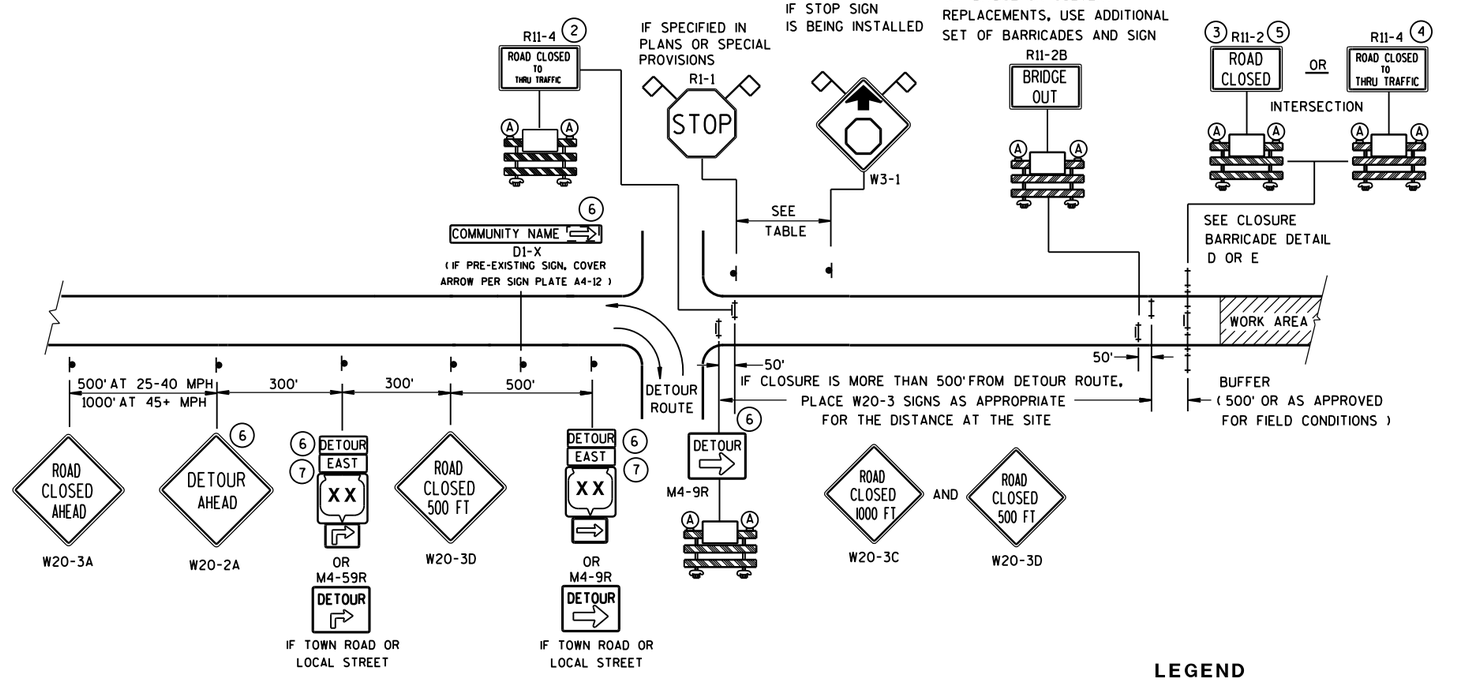
S.D.D. 15 A 3-2b



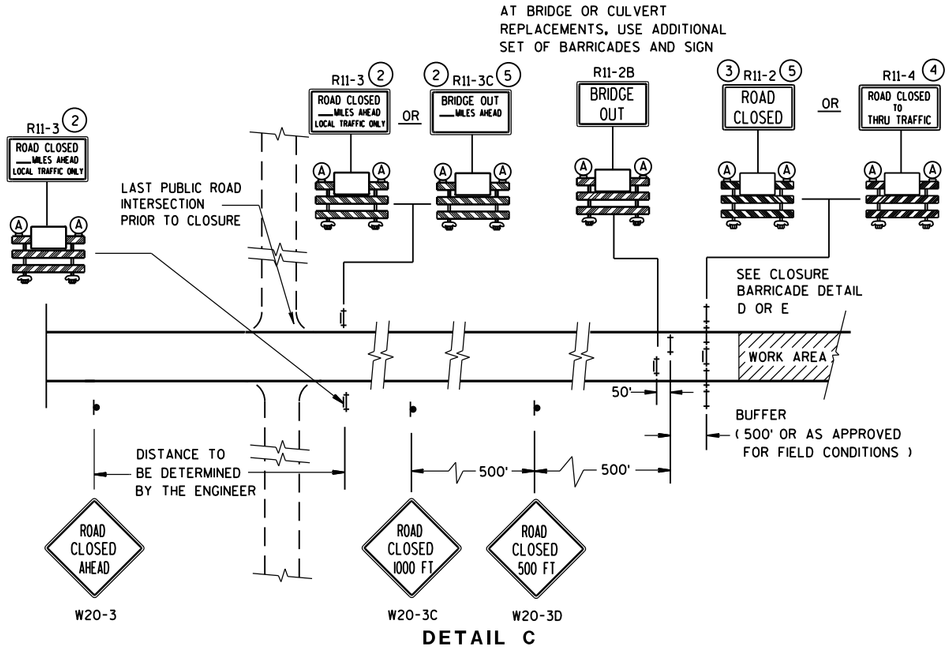
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

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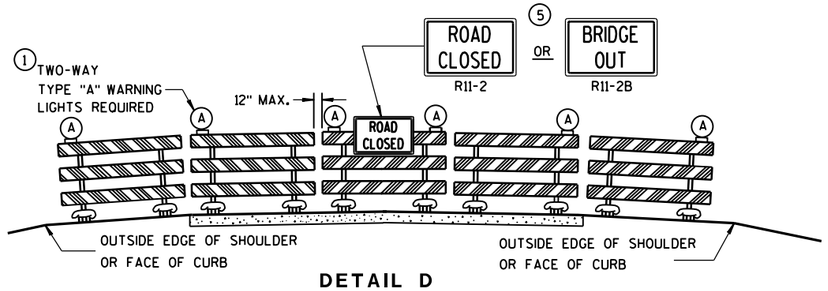
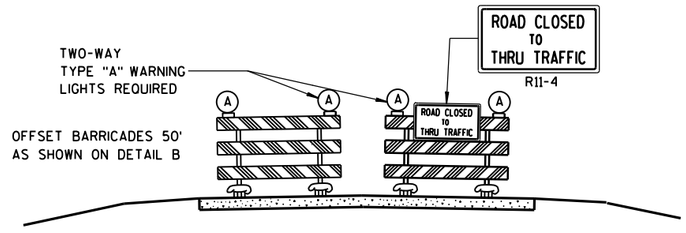
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

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

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

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

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

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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FIC

FHWA

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S.D.D. 15 C 2-6b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

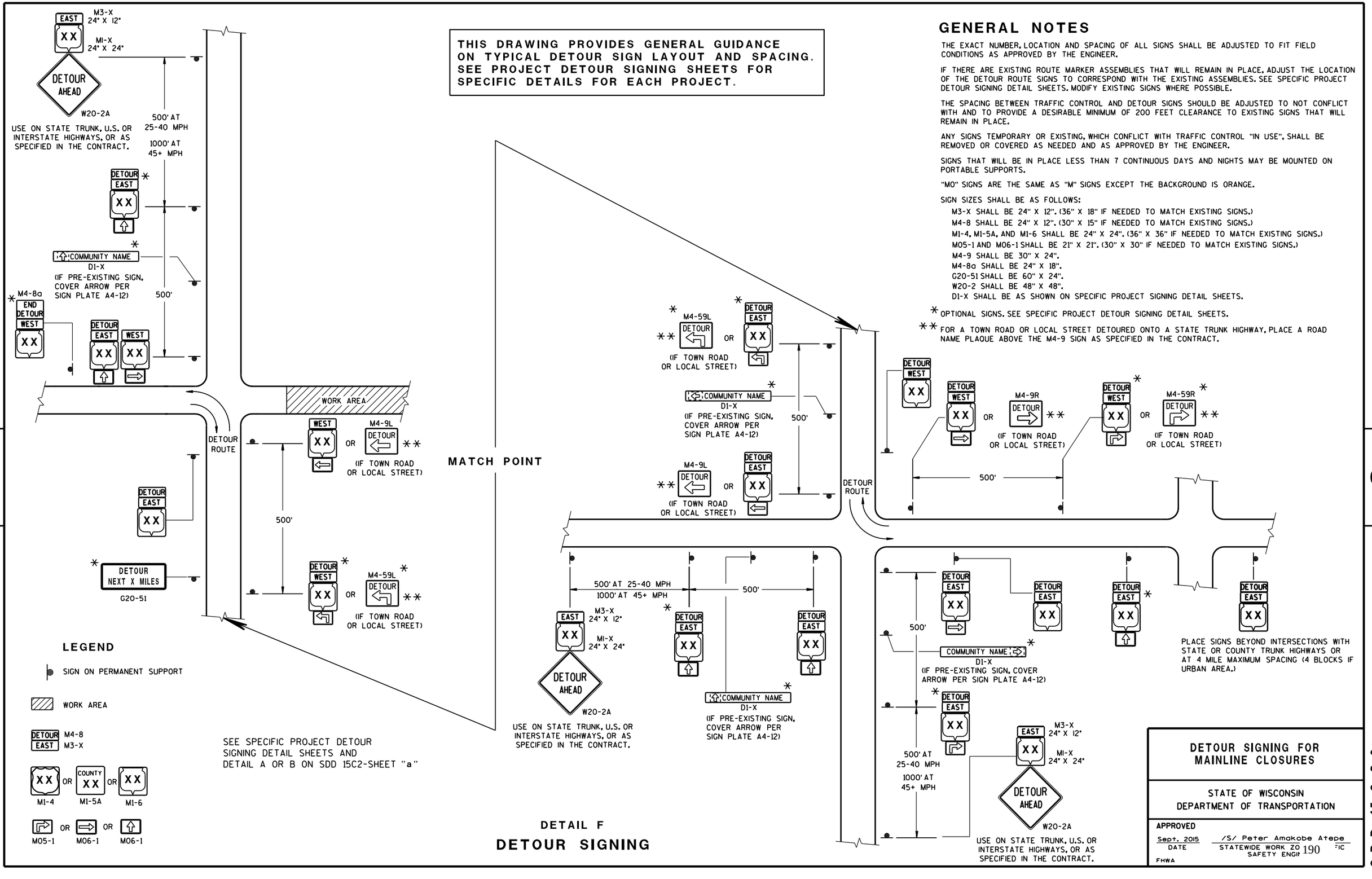
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR EAST — M4-8 / M3-X
- XX OR COUNTY XX OR XX — M1-4 / M1-5A / M1-6
- MO5-1 OR MO6-1 OR MO6-1

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI FIC

FHWA

S.D.D. 15 C 2-6c

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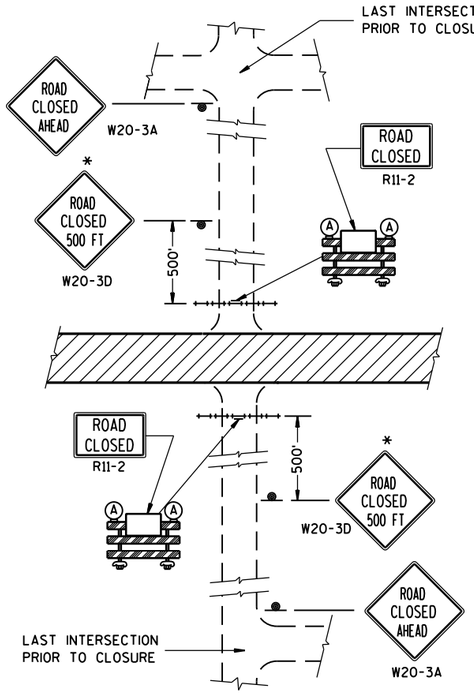
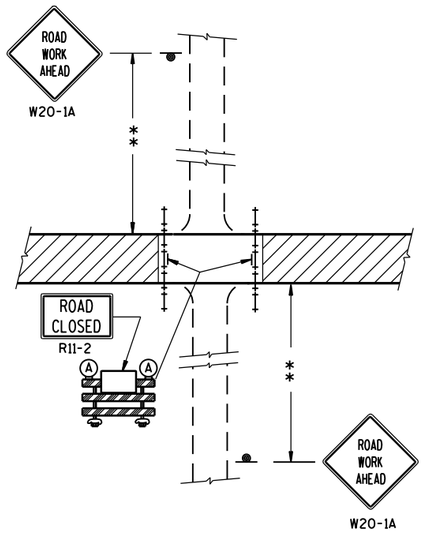


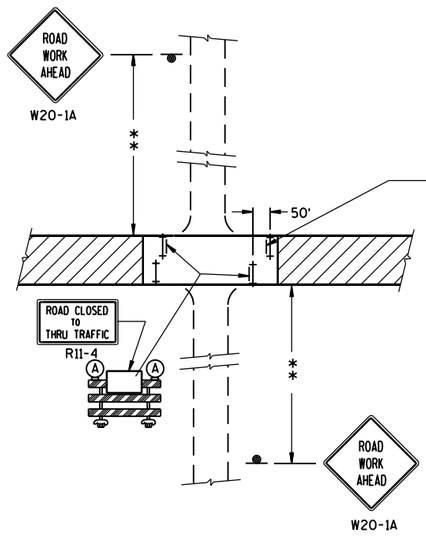
DETAIL 1

(NO ACCESS TO PROJECT)



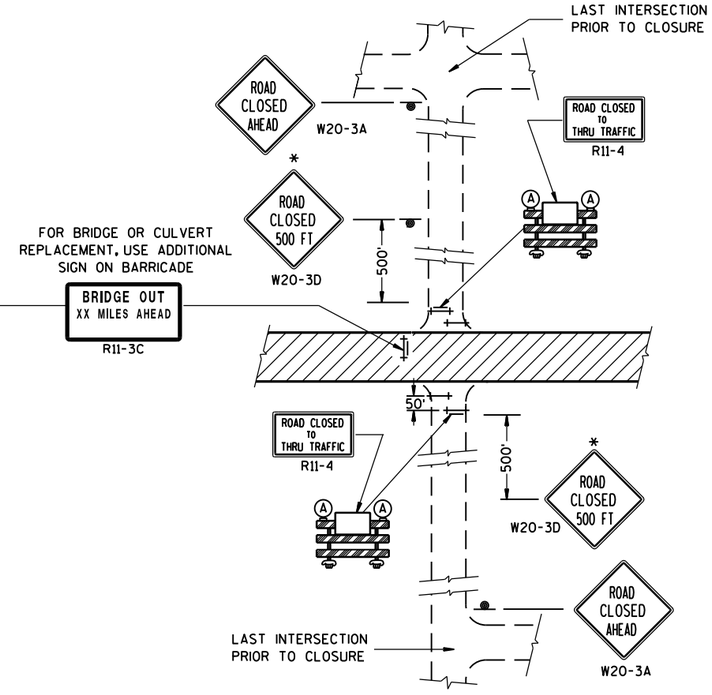
DETAIL 2

(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

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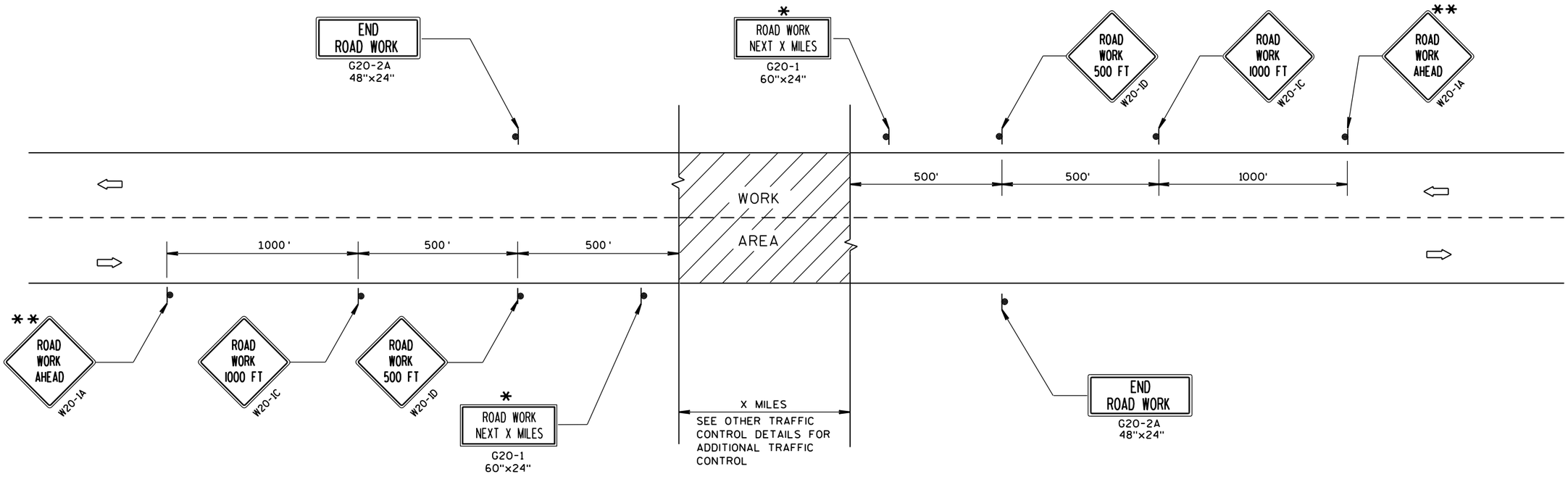
S.D.D. 15 C 3-3



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.

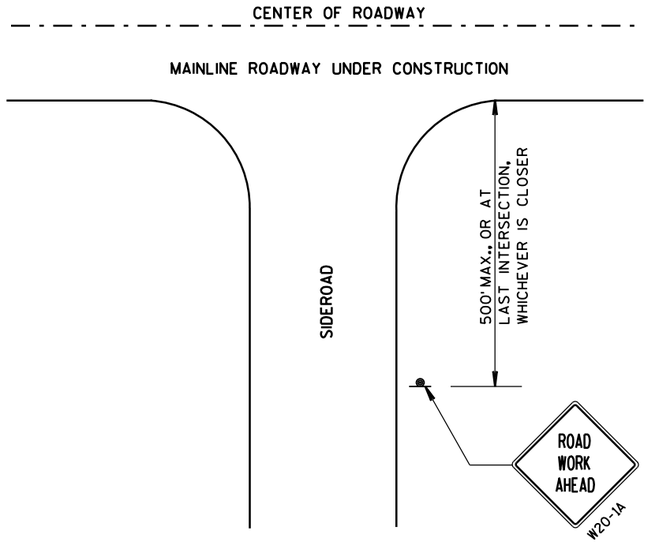
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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 ZOI SAFETY ENGIN IC

FHWA

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S.D.D. 15 C 4-3

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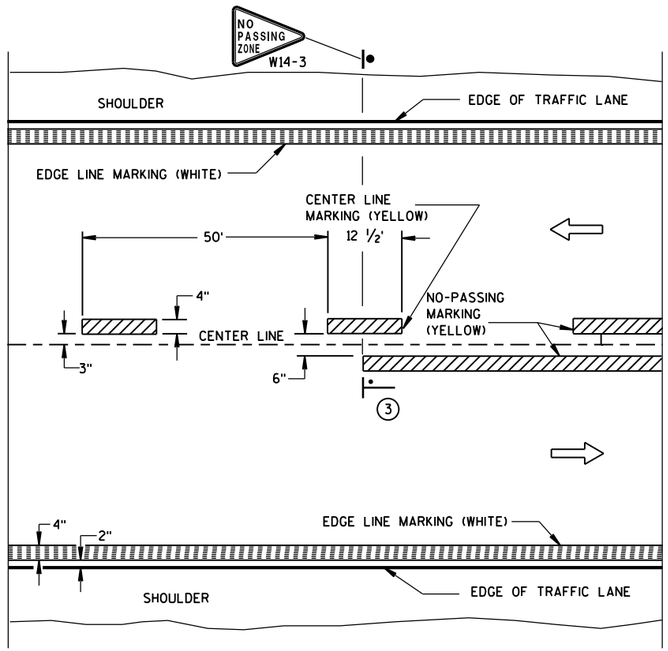
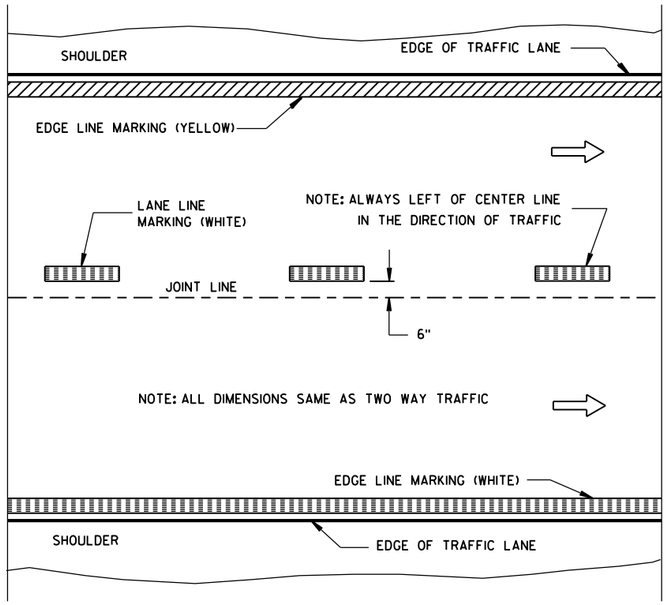
S.D.D. 15 C 4-3

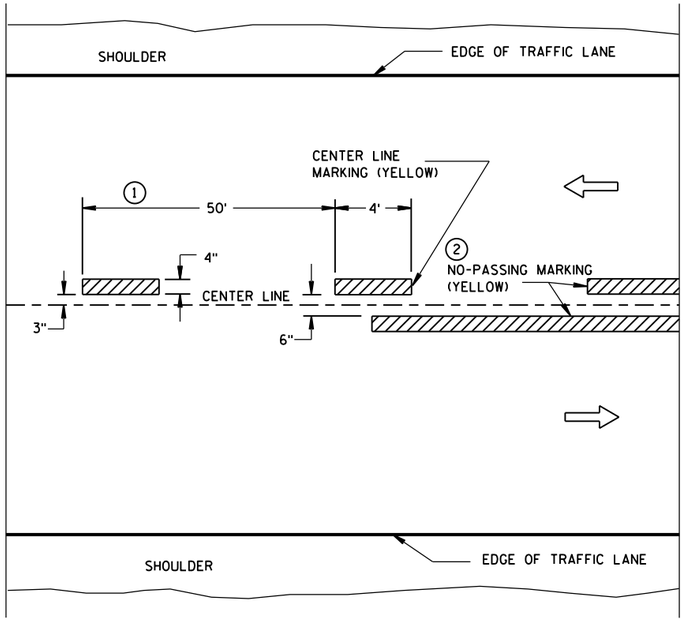


TWO WAY TRAFFIC

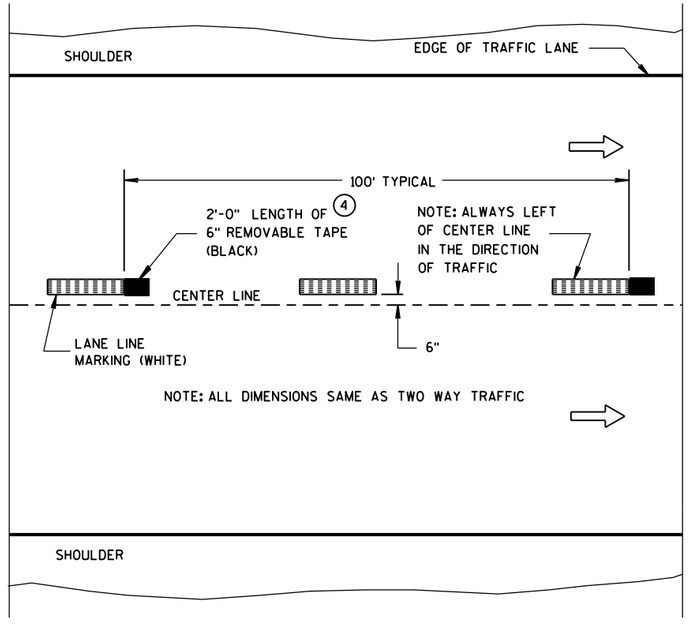


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

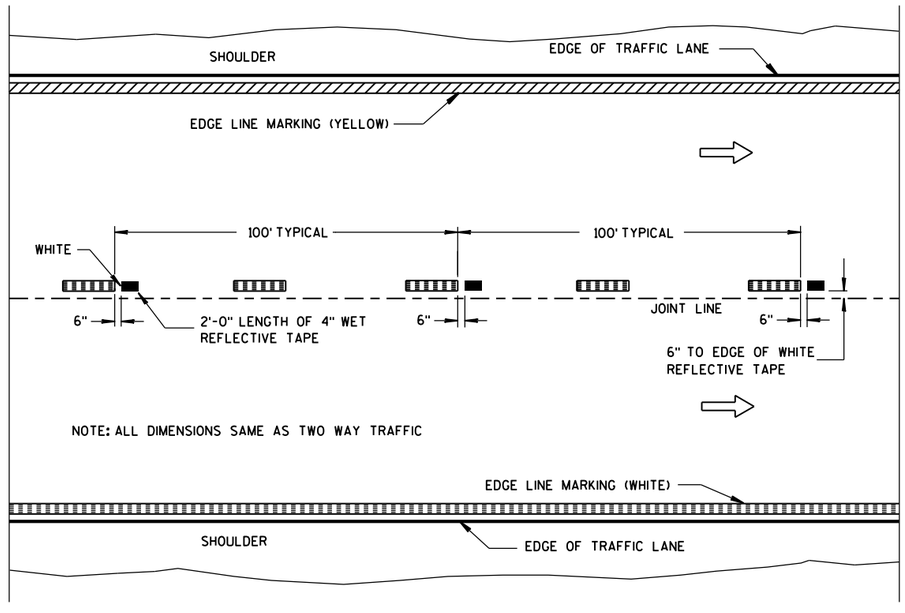
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

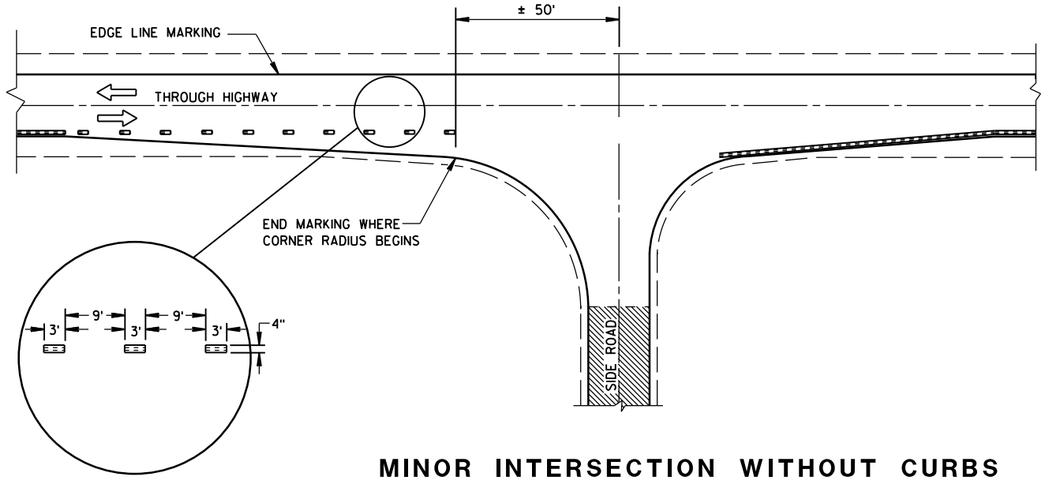
PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

6

S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

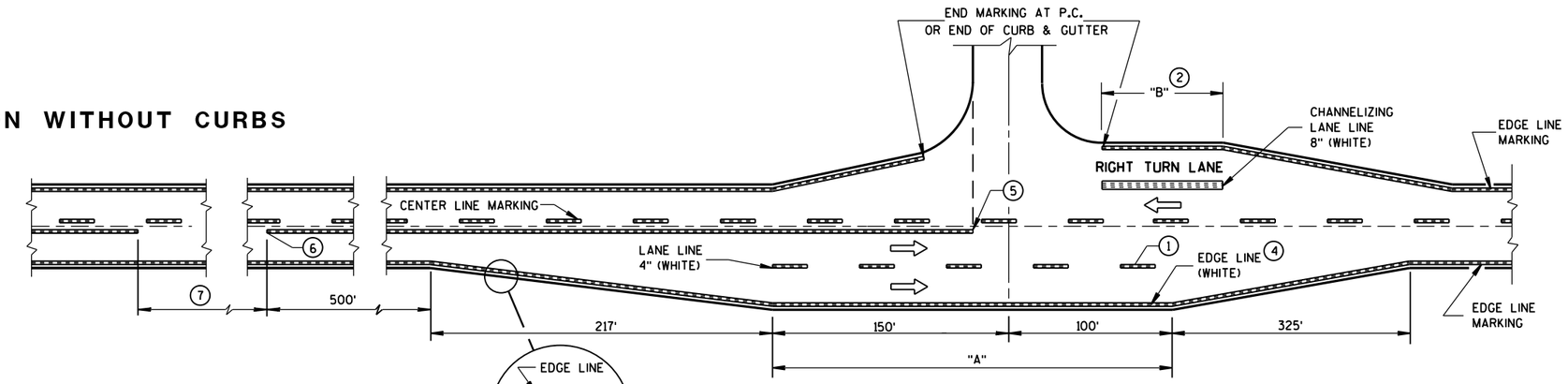
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

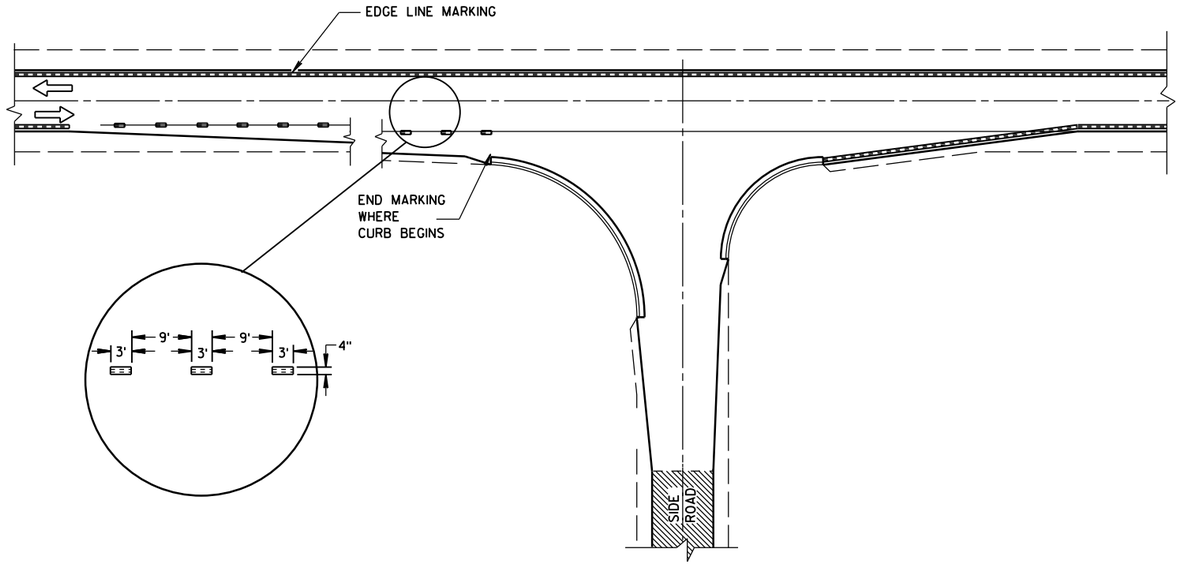
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



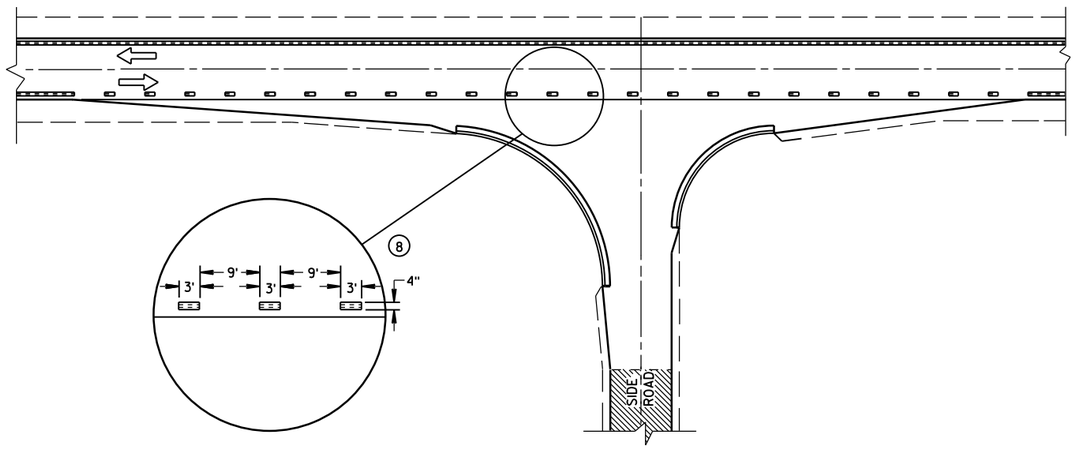
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

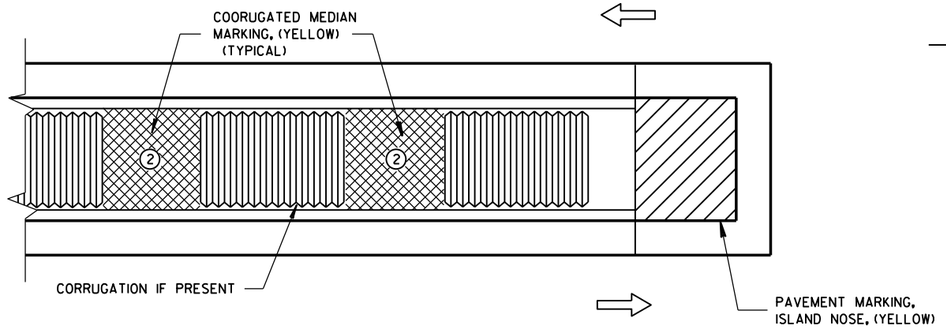
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

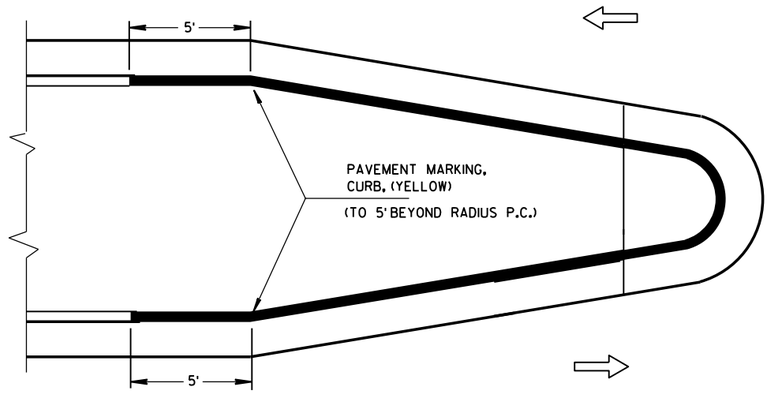
S.D.D. 15 C 8-16b

6

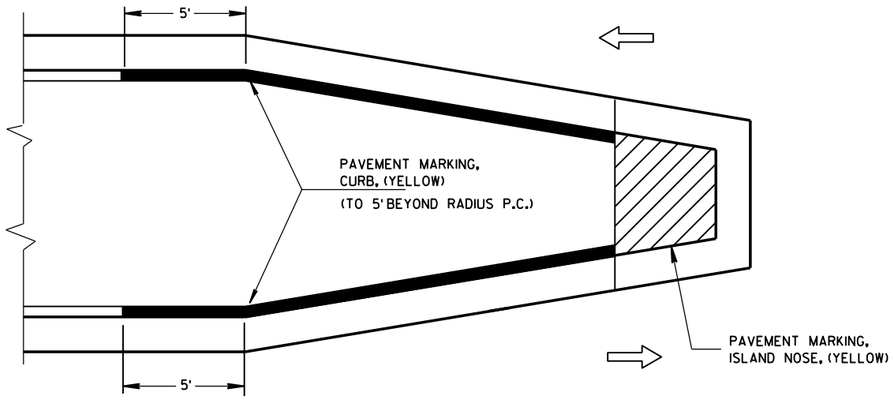
S.D.D. 15 C 8-16b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

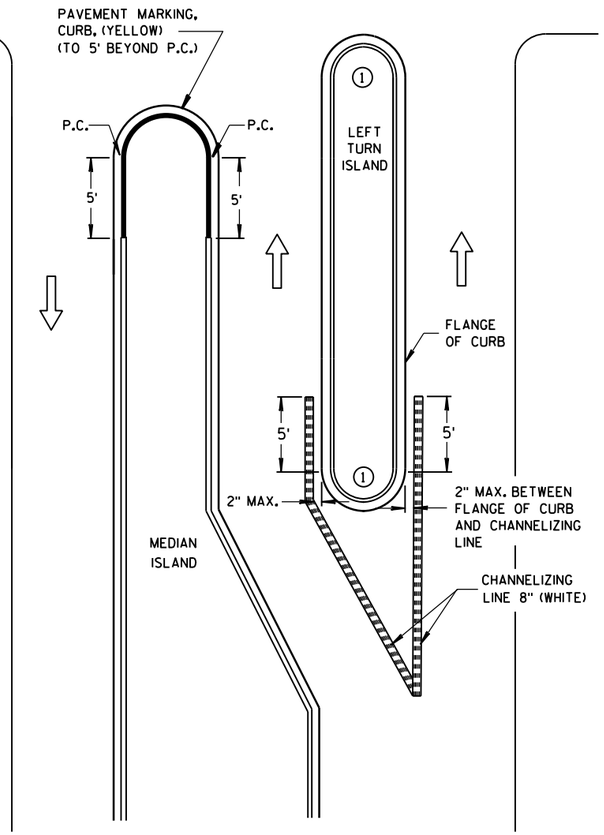


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

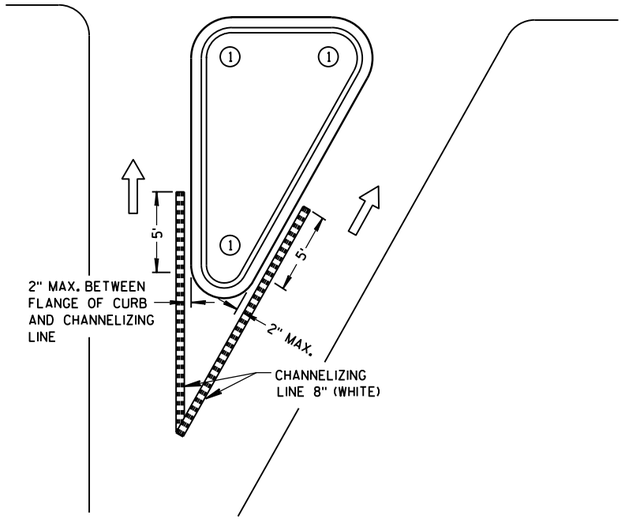


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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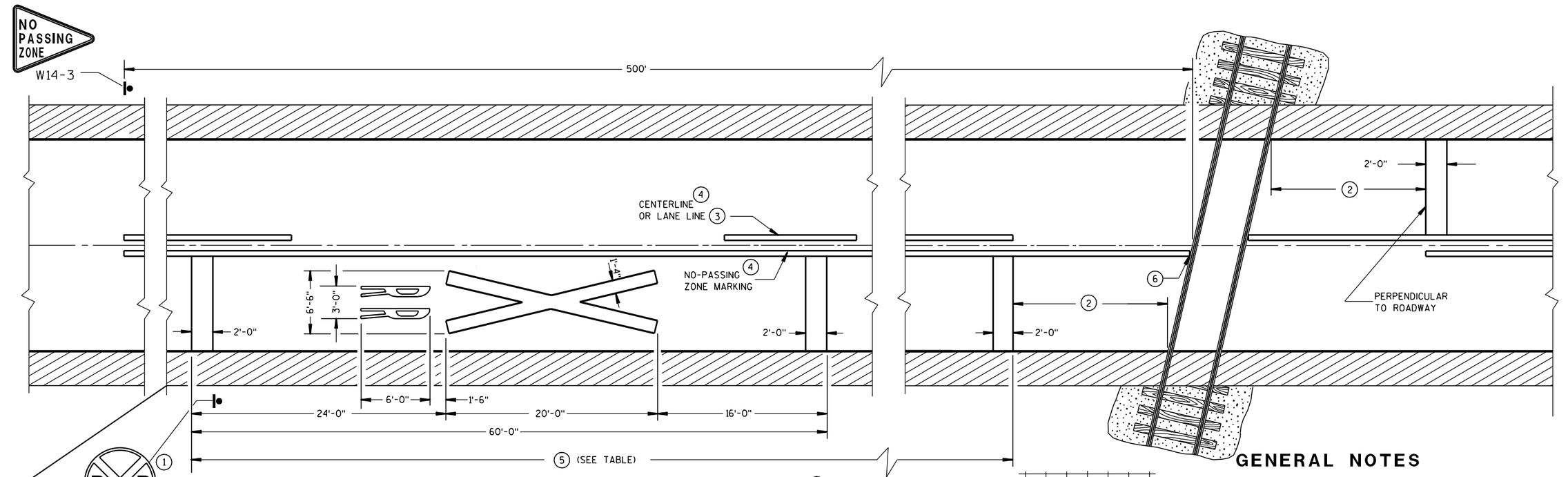
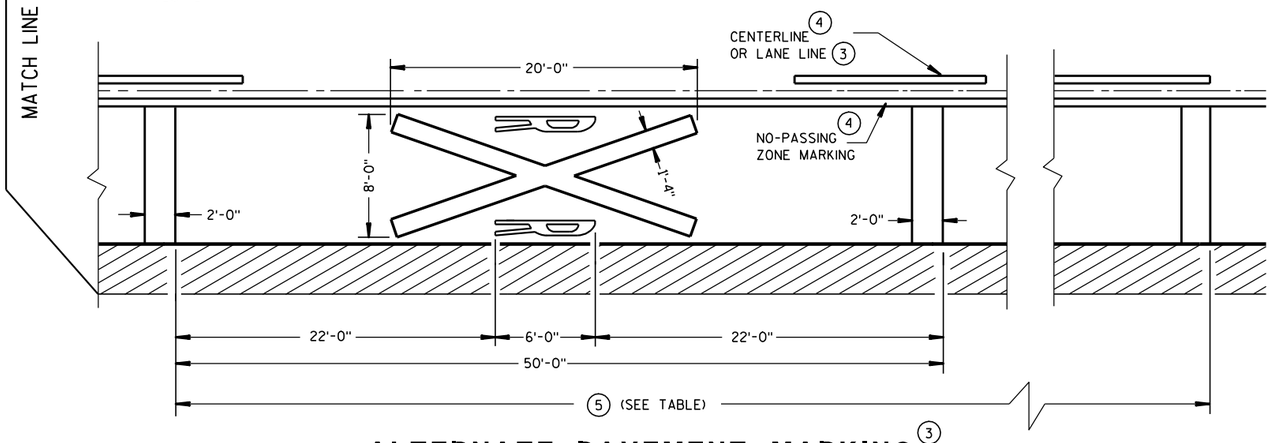
S.D.D. 15 C 8-16f



PREFERRED PAVEMENT MARKING 3

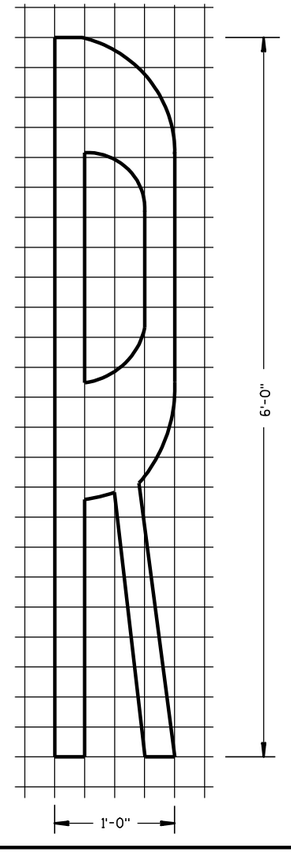


ALTERNATE PAVEMENT MARKING 3

5

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



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.

A THREE-LANE ROADWAY SHOULD BE MARKED WITH A CENTERLINE FOR TWO-LANE APPROACH OPERATION ON THE APPROACH TO A CROSSING.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE. ALL LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" (ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION).

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

1. A PORTION OF THE PAVEMENT MARKING SYMBOL SHOULD BE DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN (W10-1).
2. MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.
3. REFLECTIVE WHITE.
4. REFLECTIVE YELLOW 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
5. TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
6. FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

1-9-2012
DATE

/S/ Thomas N. [illegible]
STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 9-9a

6

S.D.D. 15 C 9-9a

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

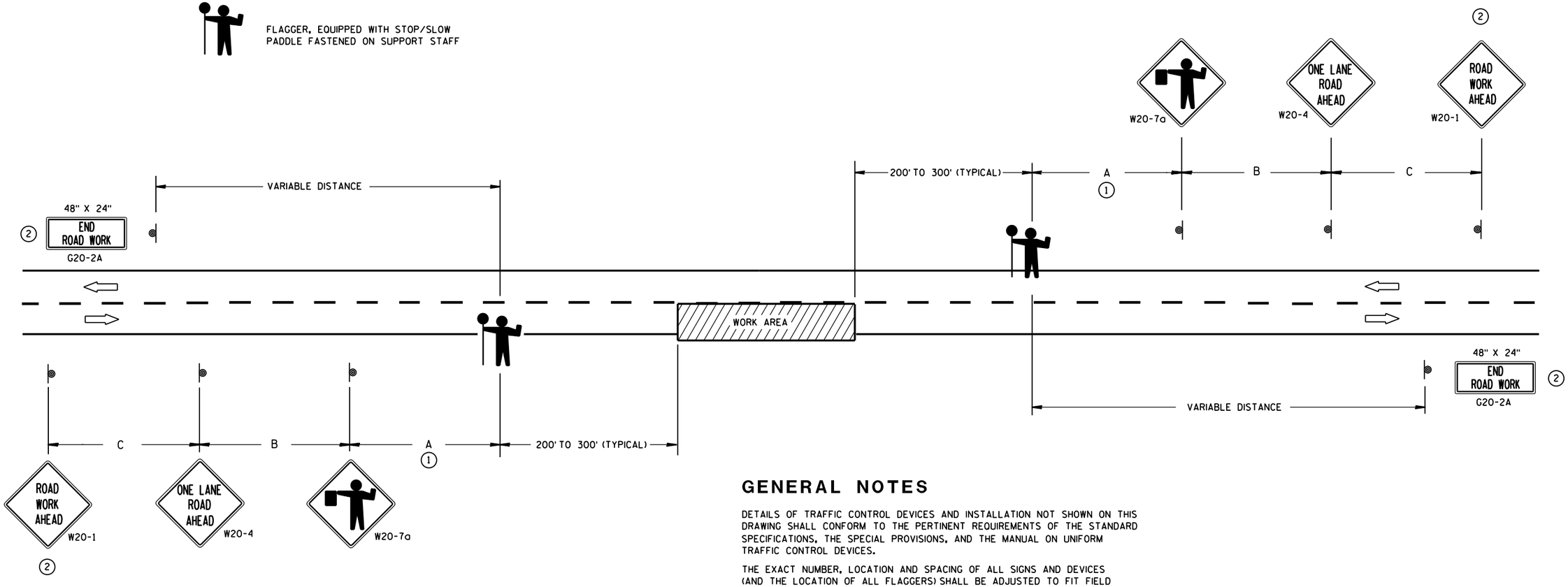
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 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.

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.

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.

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, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

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

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

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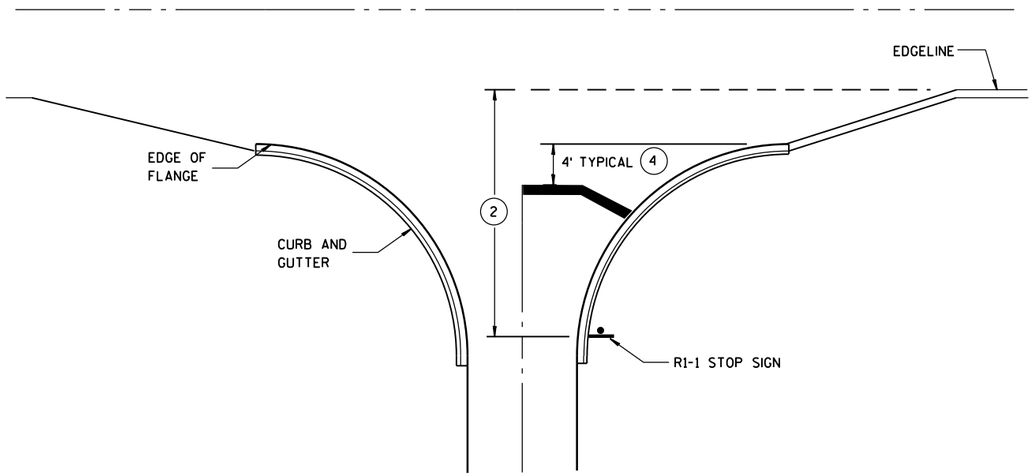
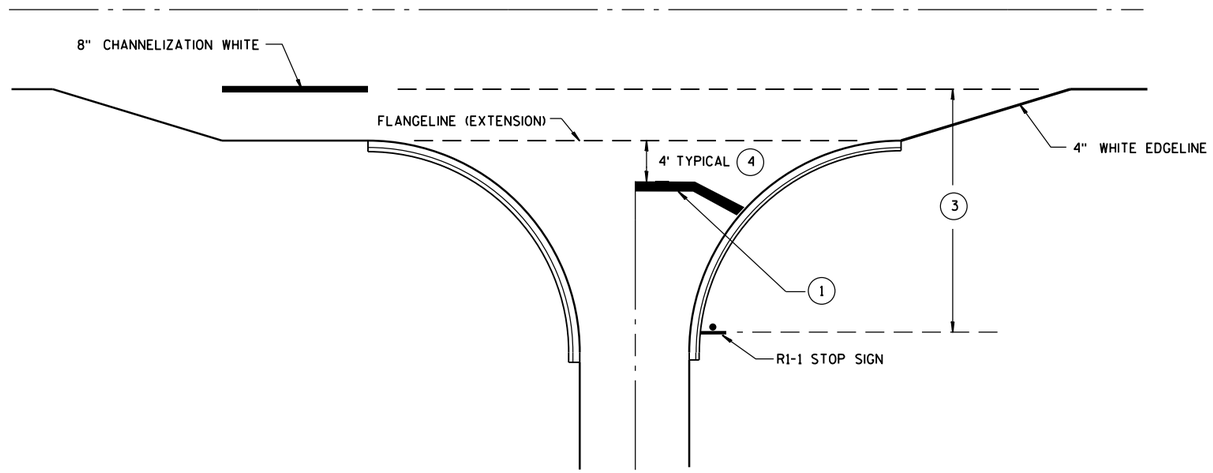
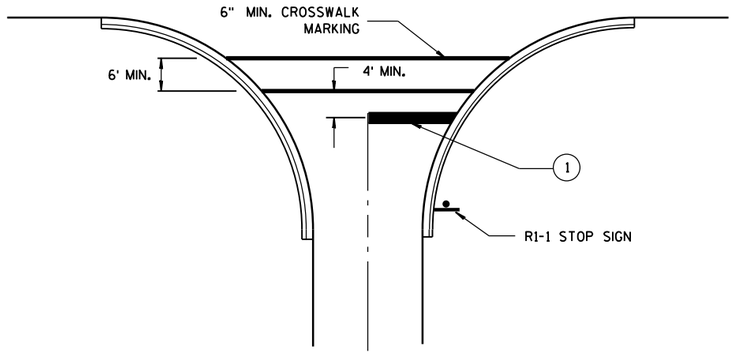
S.D.D. 15 C 12-4



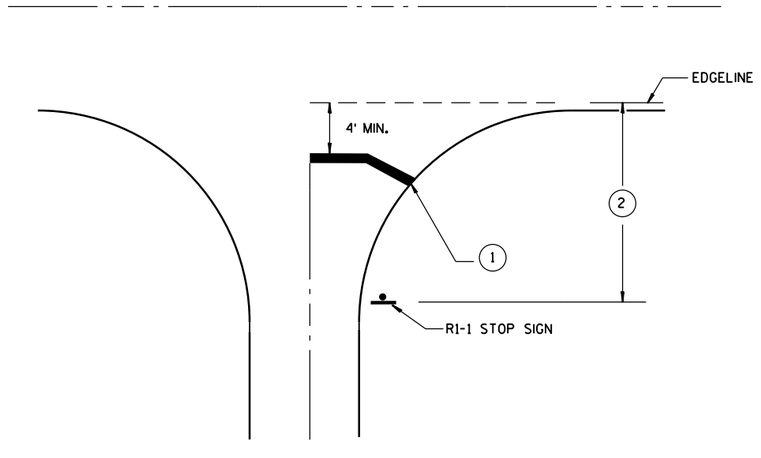
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

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

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

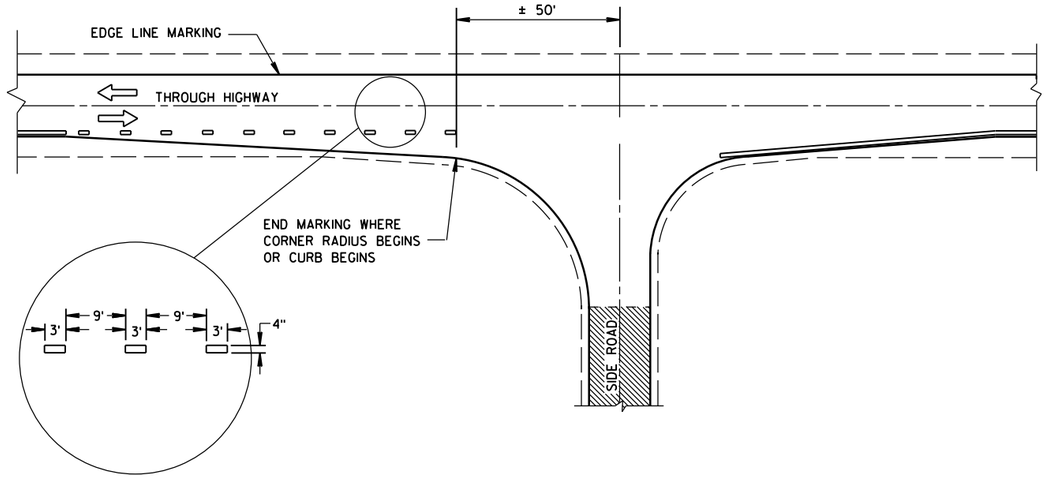
4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

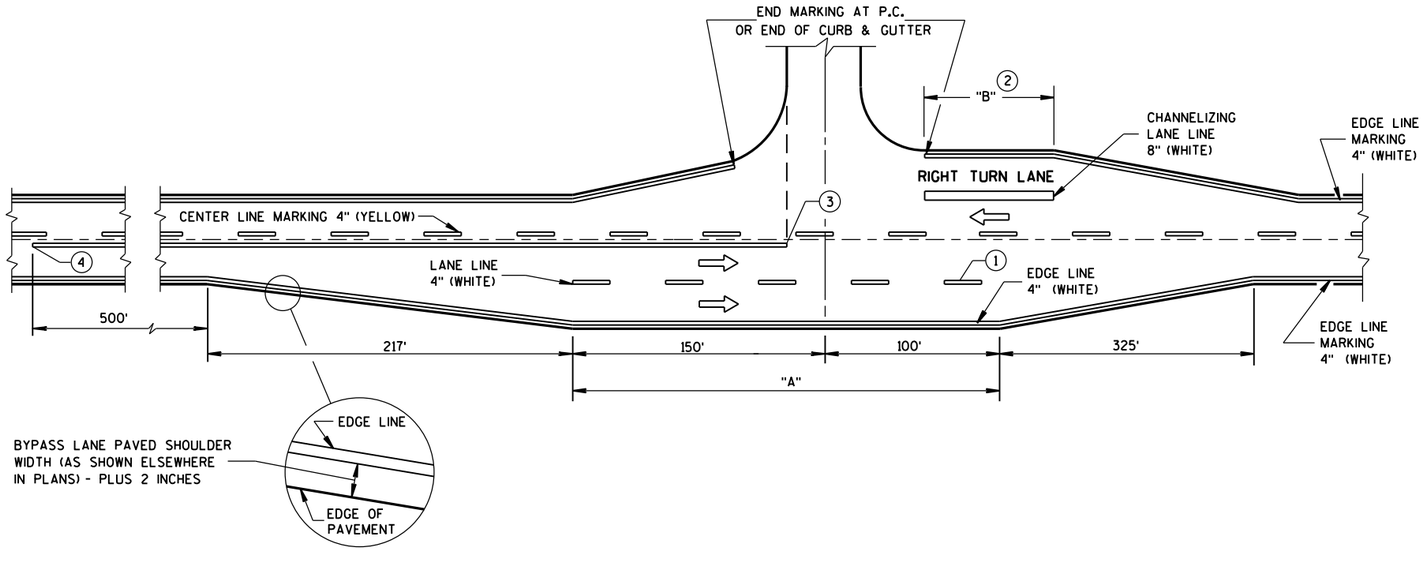
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS

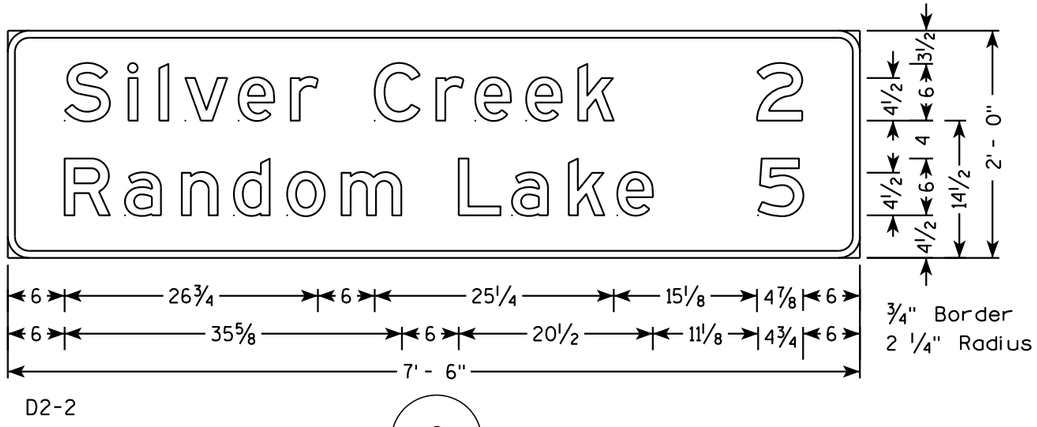
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 35-1a



D2-2

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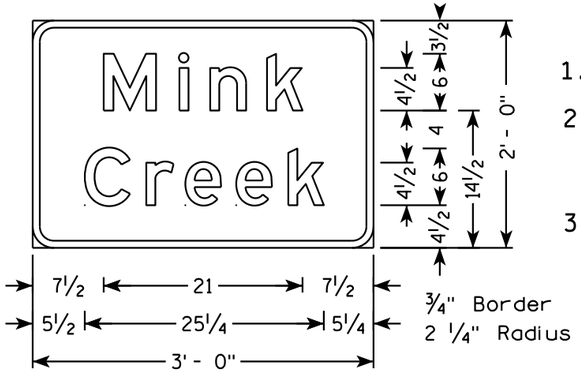
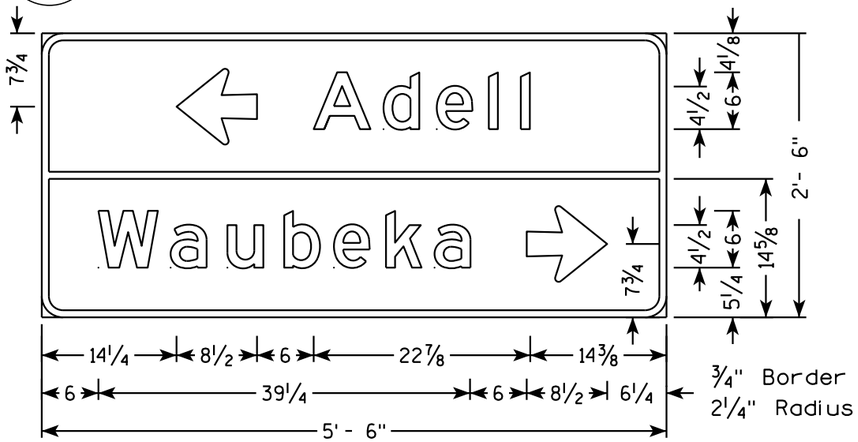


I3-1

24 25

NOTES

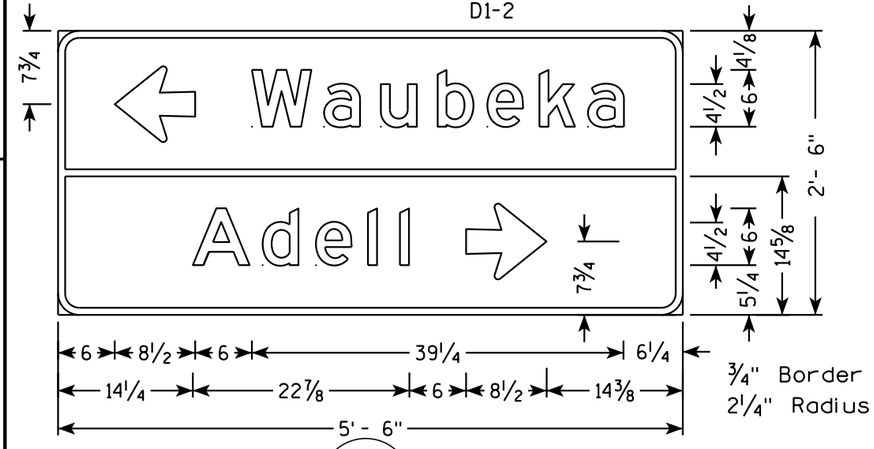
1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



D1-2

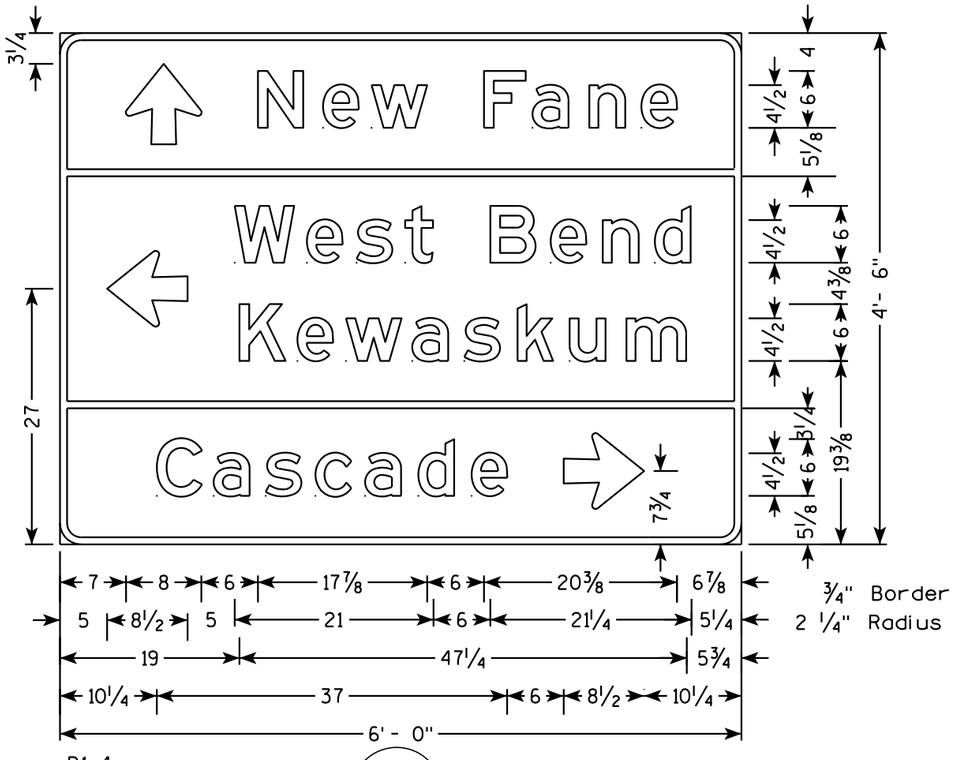
88

7



D1-2

105

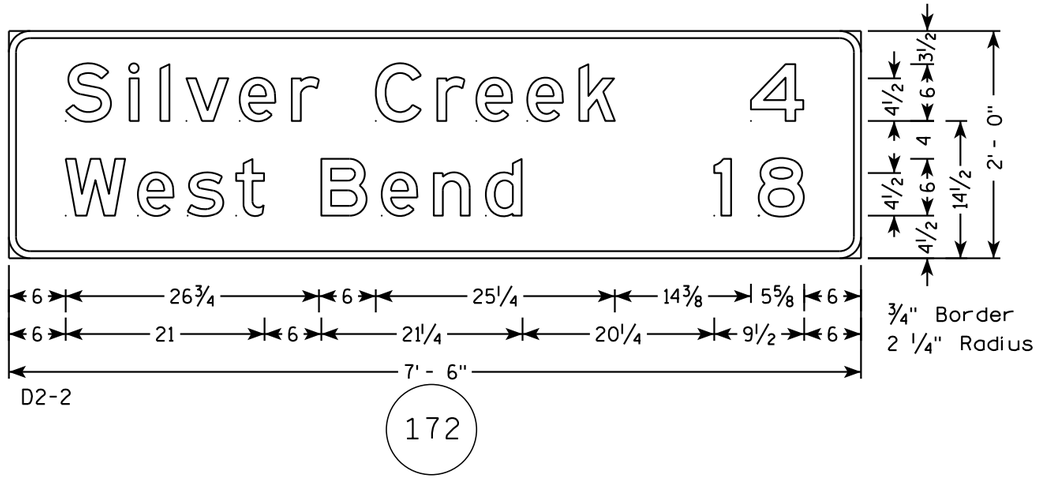


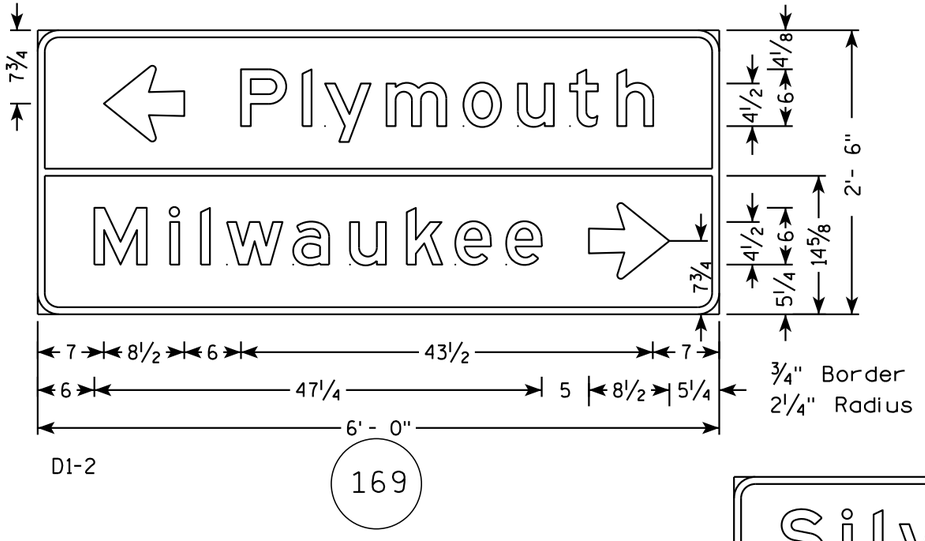
D1-4

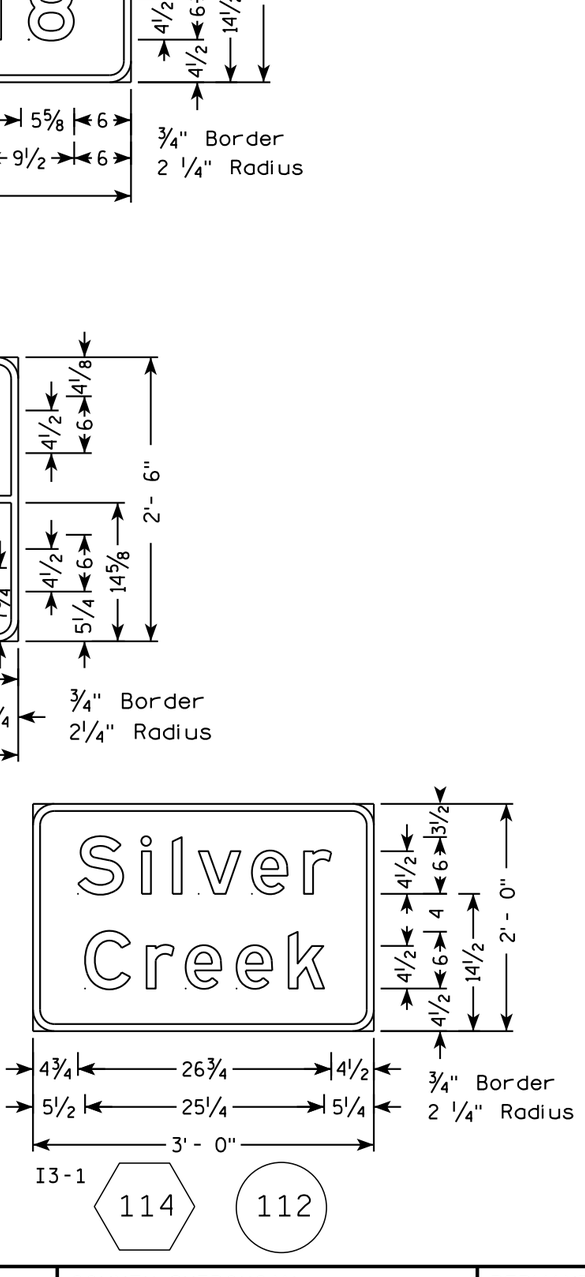
10

7

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET NO: 200	E

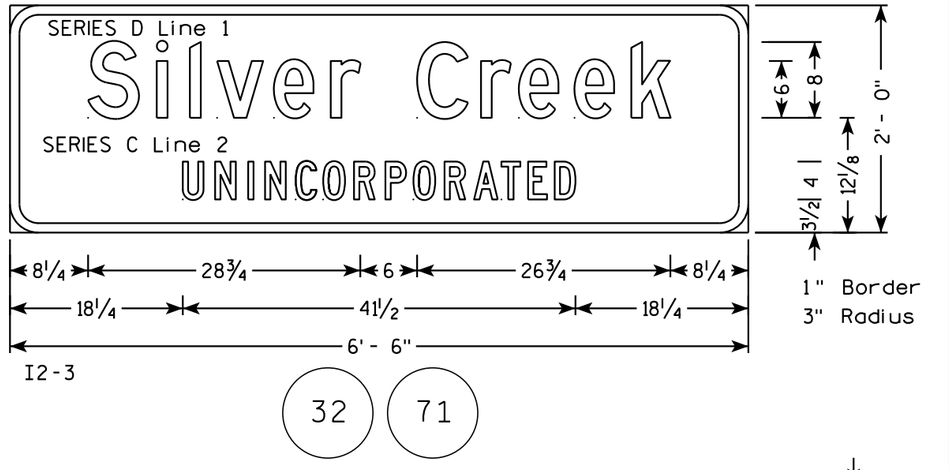


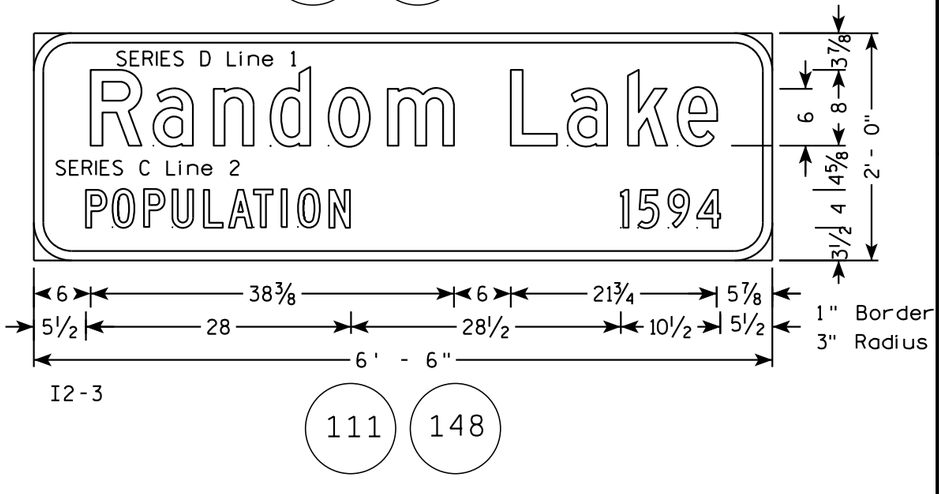




NOTES

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

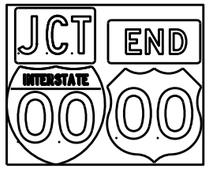




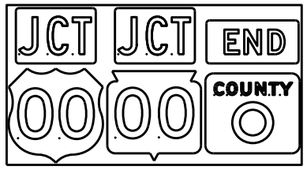
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET NO: 201	E

TYPICAL ASSEMBLIES

J1-1

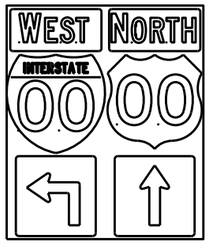


J1-2

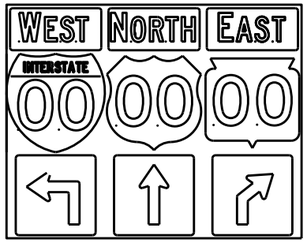


J1-3

J2-1



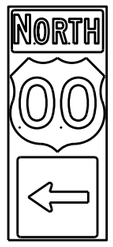
J2-2



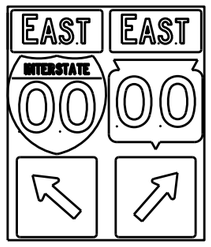
J2-3

JV

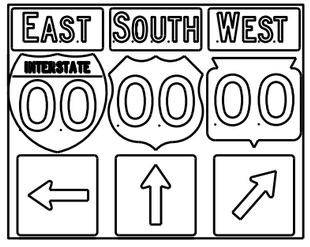
(Typical Vertical J-Assembly
See Note 10 and 11)



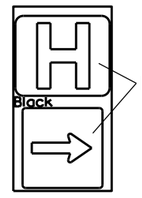
J3-1



J3-2

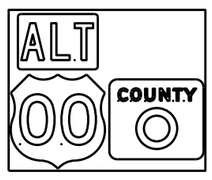


J3-3

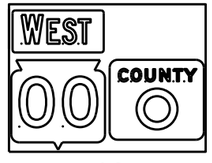


JH-1

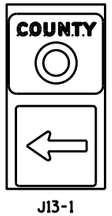
J4-1



J4-2



J4-2



J13-1

J12-1

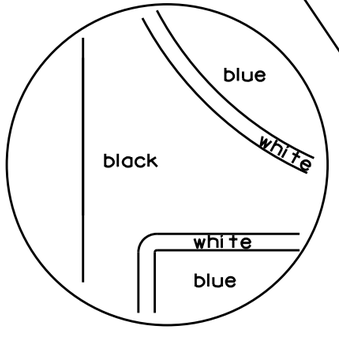
J32-1

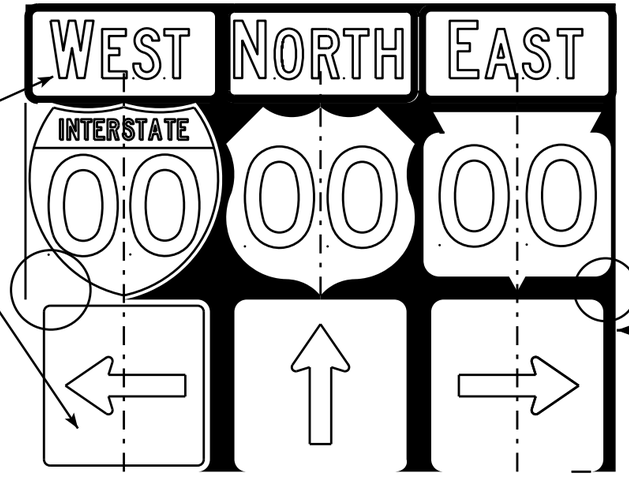
J33-1

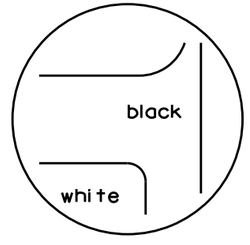
J23-1

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

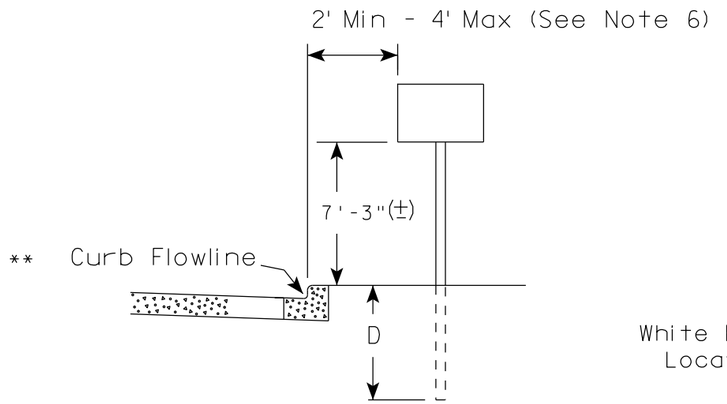
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

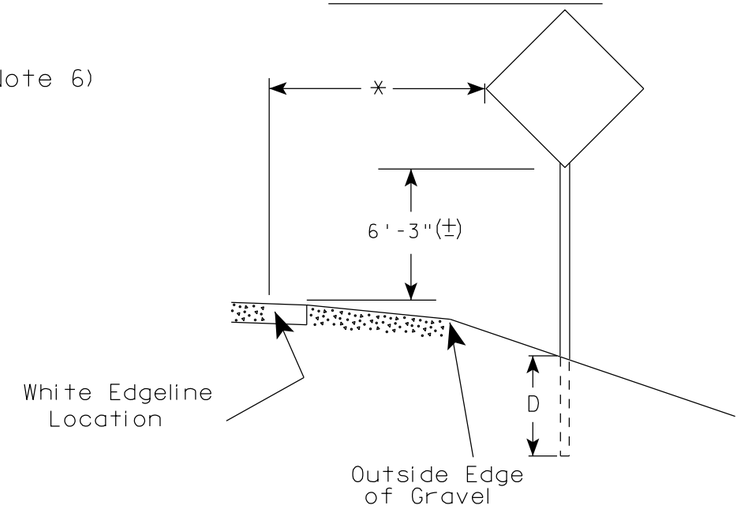
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

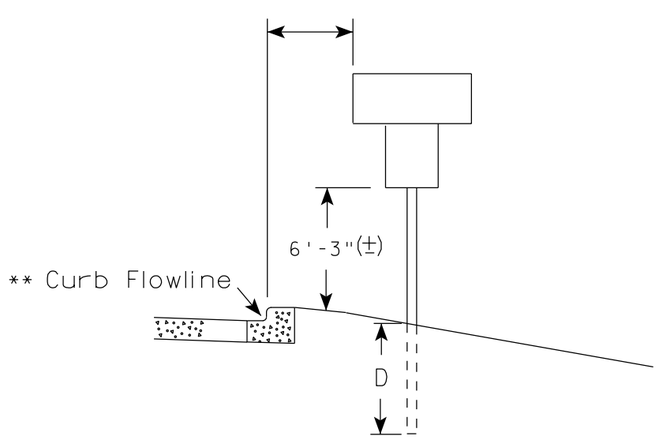
WISDOT/CADDS SHEET 42

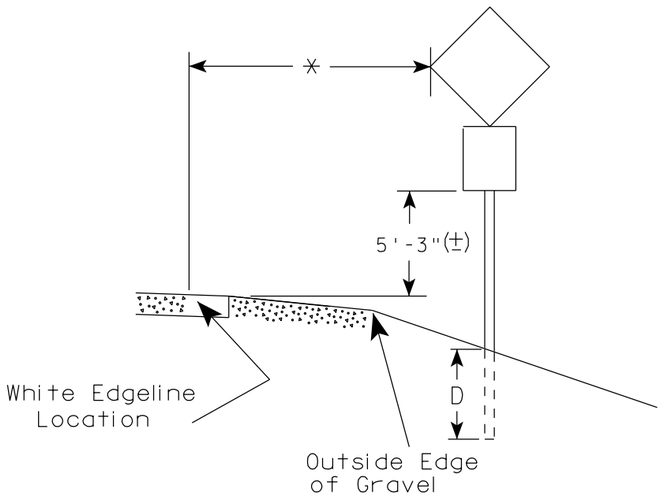
URBAN AREA



RURAL AREA (See Note 2)







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" (±).

POST EMBEDMENT DEPTH

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

** 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.

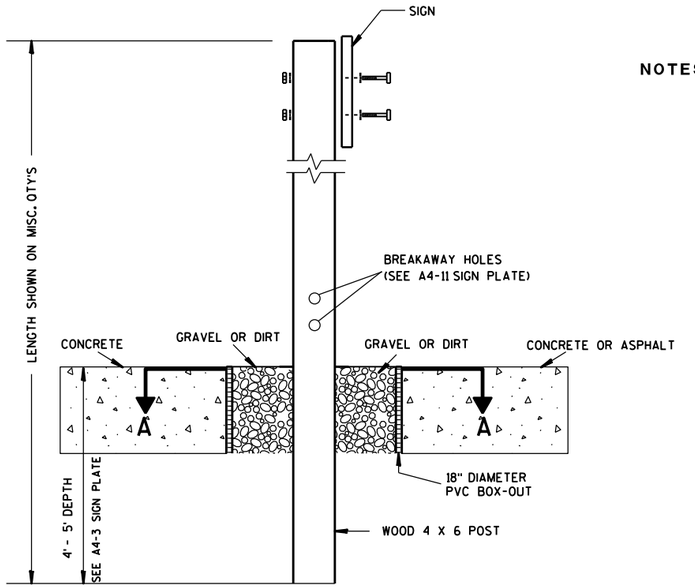
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

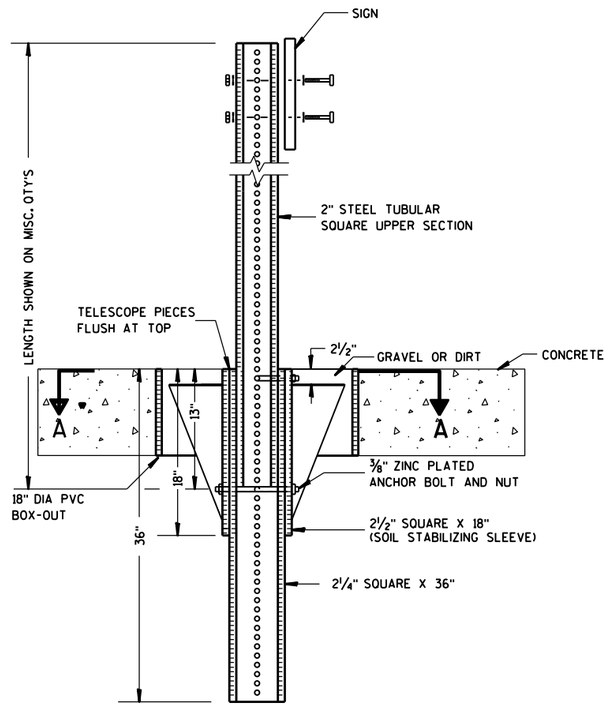
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

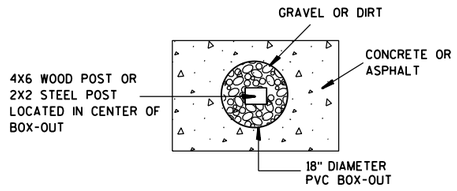
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

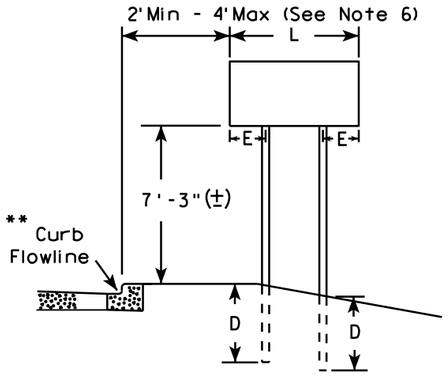
APPROVED Matthew R Rauch
for State Traffic Engineer

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

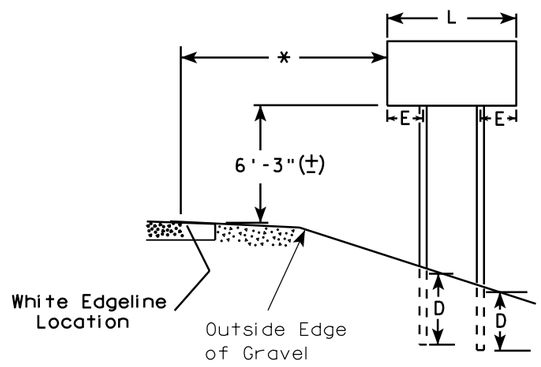
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

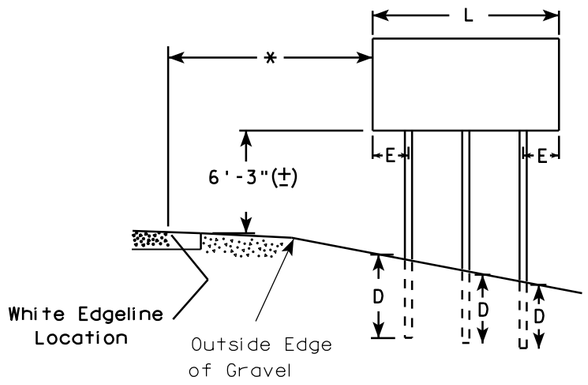
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

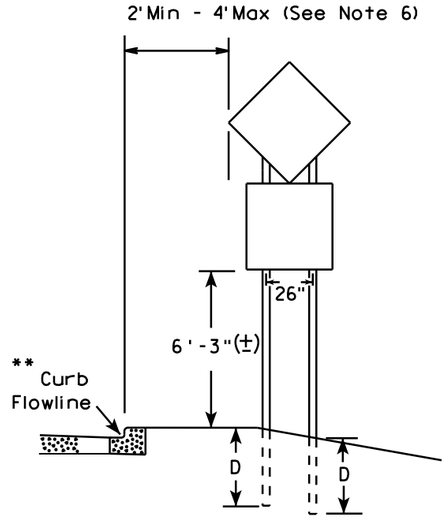
URBAN AREA



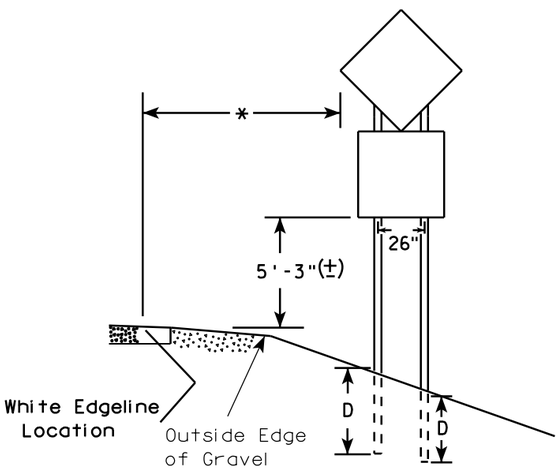
RURAL AREA (See Note 3)







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'

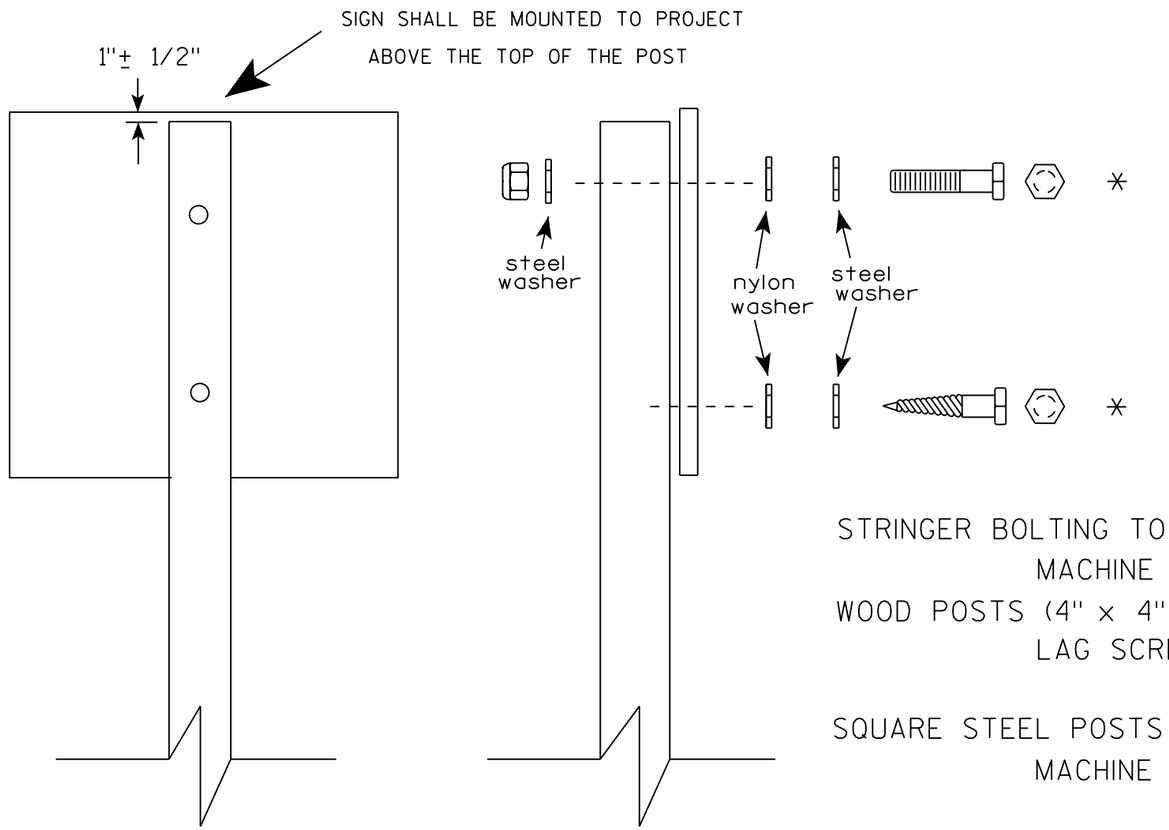
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 205 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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

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

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

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

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

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

WOOD POSTS (4" x 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

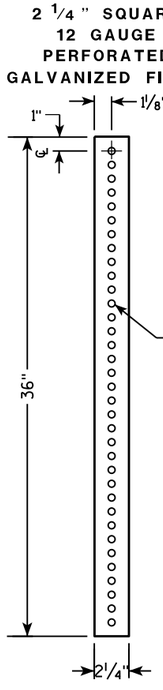
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

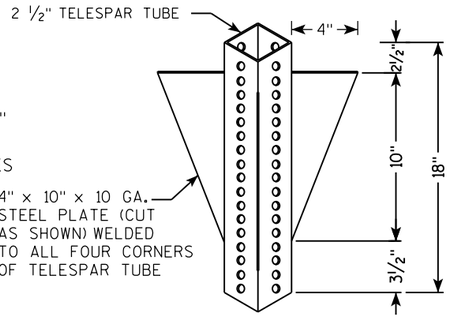
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

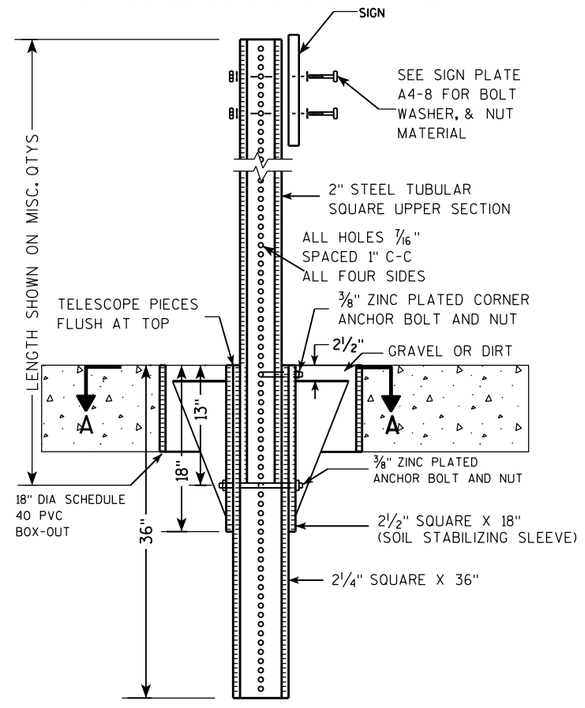
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



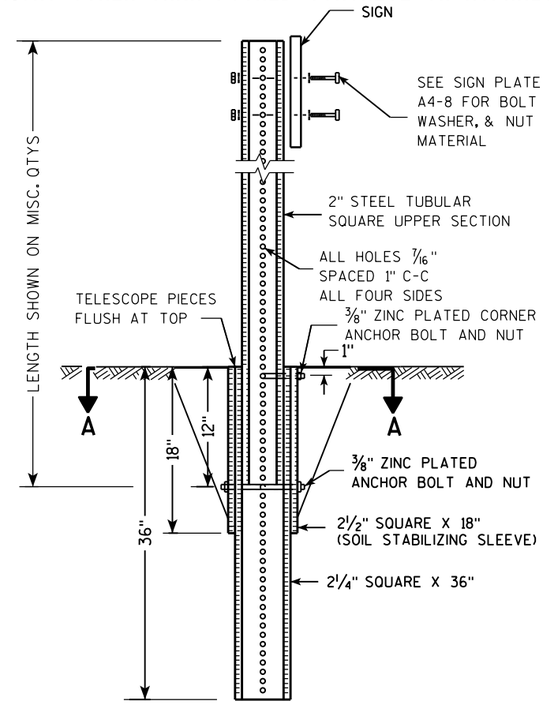
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

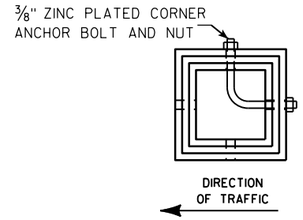


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

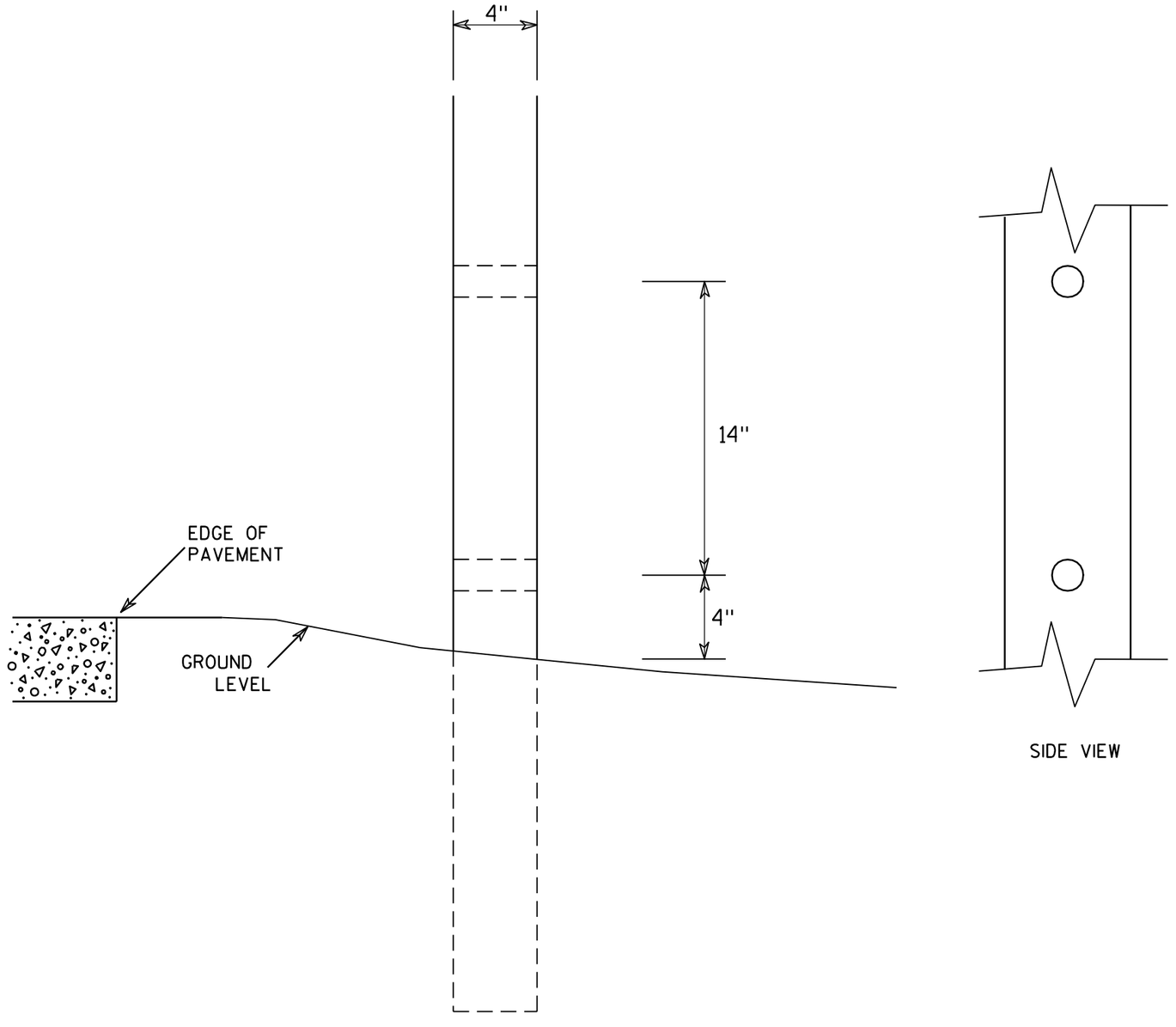
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 207 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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.

7

7

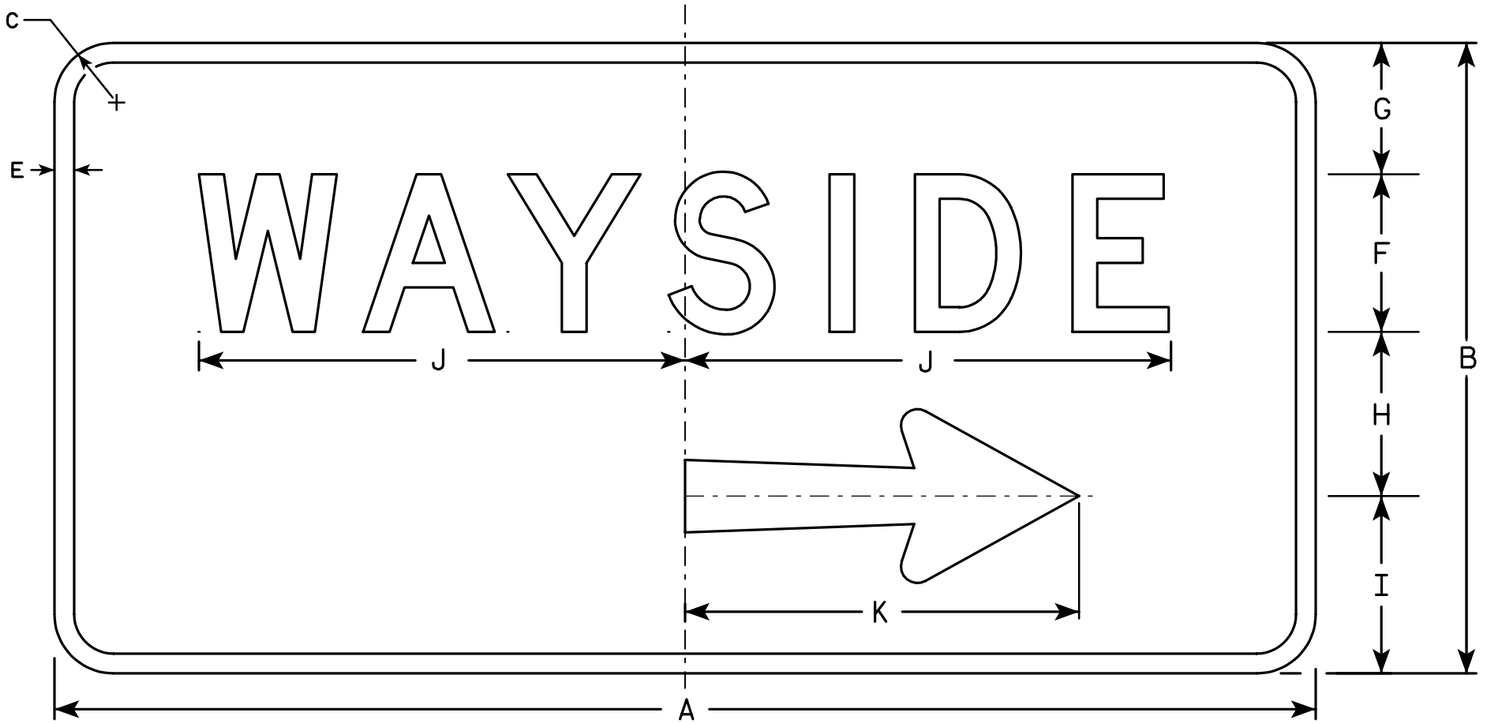
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

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

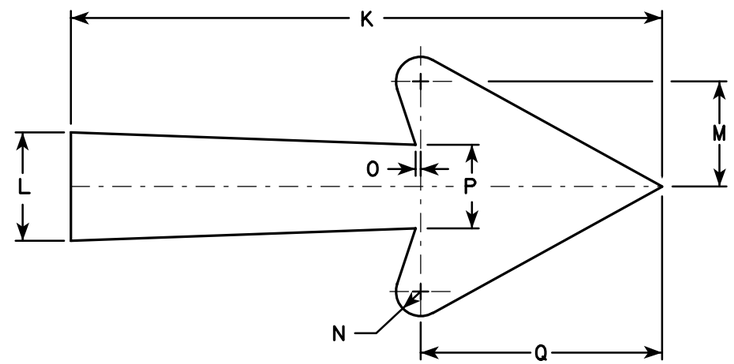
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 208	E



D5-62R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. D5-62L is the same as D5-62R except that the arrow is rotated 180° about the vertical center line.



Arrow Detail

Metric equivalent for this sign is:

SIZE	
1	
2	1200 mm X 600 mm
3	
4	1950 mm X 1050 mm
5	

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	48	24	2 1/4		3/4	6	4	6 1/4	6 3/4	18 1/2	15	2 3/4	3 1/8	5/8	1/8	2 1/8	6 1/8										8.0	0.72
3																												
4	78	42	3		1	10	8 3/4	11	12 1/4	30 1/8	26 1/4	4 3/4	4 5/8	1 1/8	1/4	3 3/4	10 3/4										22.8	2.05
5																												

STANDARD SIGN
D5-62

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spagg for State Traffic Engineer

DATE 1/09/02 PLATE NO. D5-62.10

STATE PROJECT NUMBER:

SHEET NO: 209 E

7

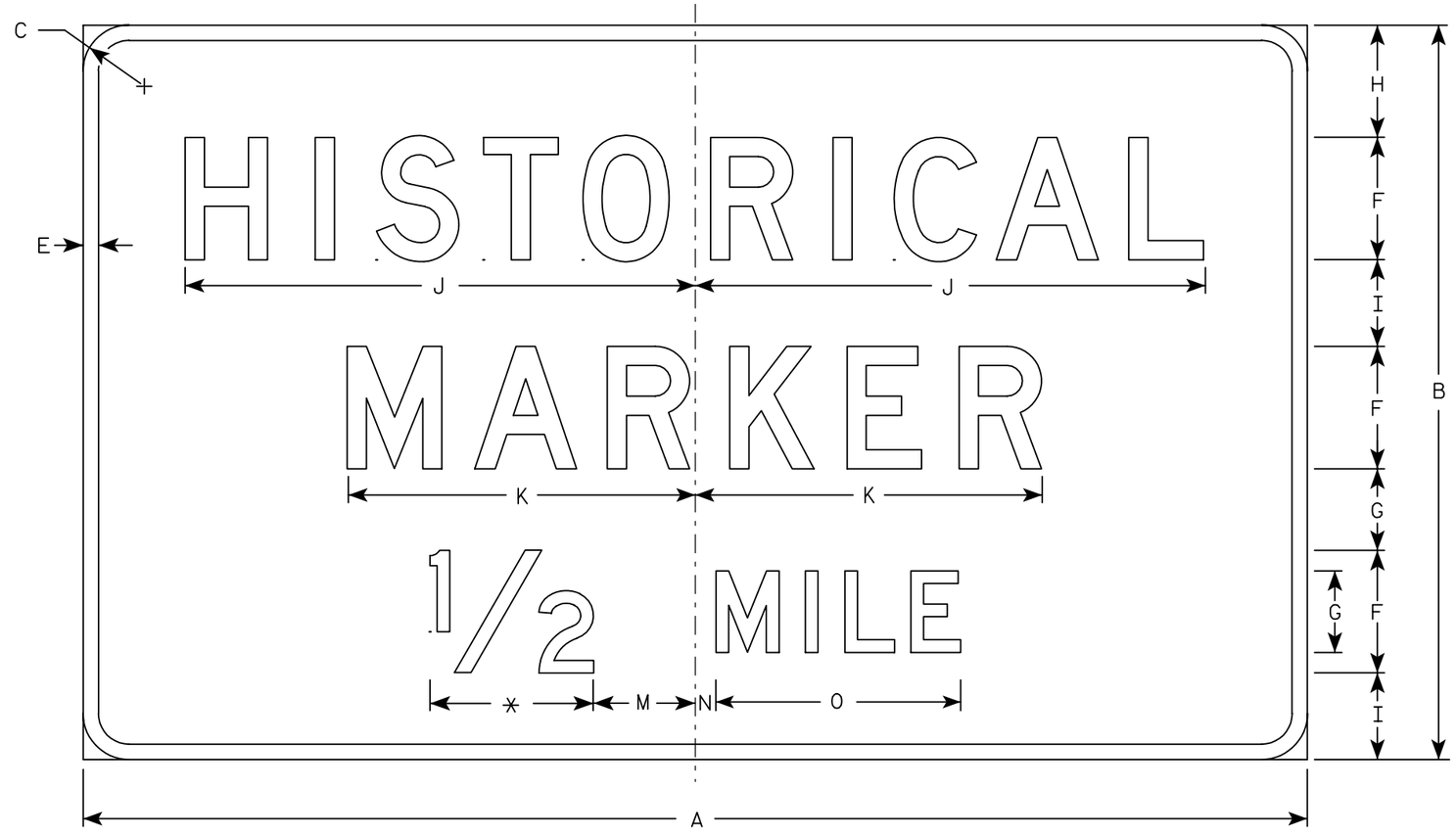
7

LEVELS ON • 2.3. 5.6. 10. 14.

58,59,60,61,62,63

FILE NAME : C:\Users\Projects\tr_stdplate\D562.DGN PLOT DATE : 09-JAN-2002 10:07 ORG DATE : 6/16/97 Originator : Don Kluever

WISDOT/CADDS SHEET 42



D5-63 * See Note 5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Brown
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 900 mm
3	
4	
5	

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	60	36	2 1/4		3/4	6	4	5 1/2	4 1/4	25	17		5	1	12												15.0	1.35
3																												
4																												
5																												

STANDARD SIGN
D5-63

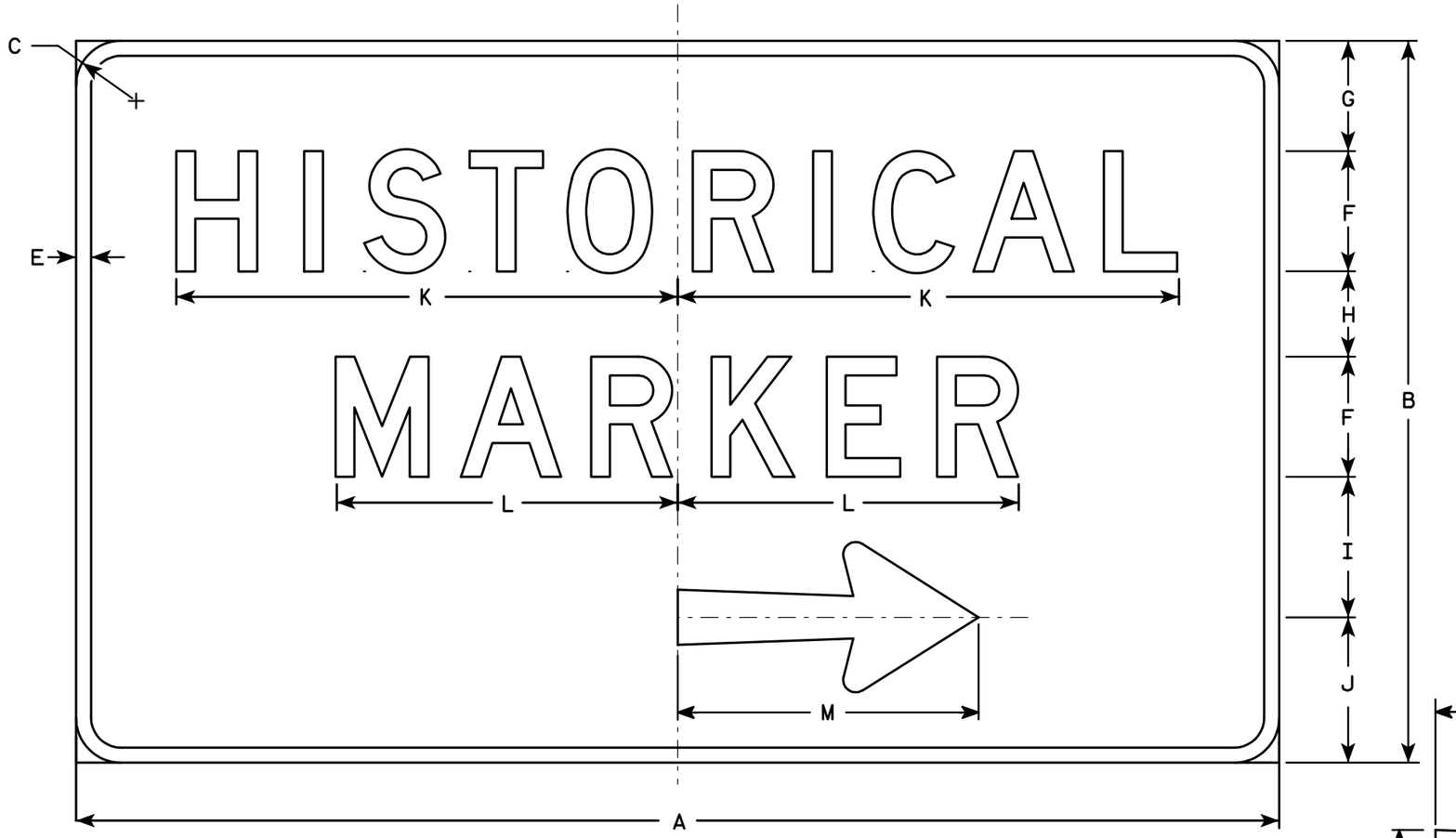
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/23/99 PLATE NO. D5-63.9

STATE PROJECT NUMBER:

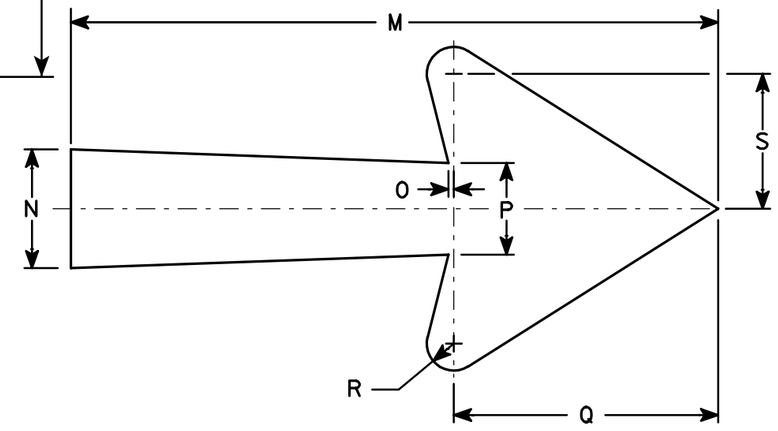
SHEET NO: 210 E



D5-64R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Brown
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. D5-64L is the same as D5-64R except the arrow is reversed.



Arrow Detail

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 900 mm
3	
4	
5	

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	60	36	2 1/4		3/4	6	5 1/2	4 1/4	7	7 1/4	25	17	15	2 3/4	1/8	2 1/8	6 1/8	5/8	3 1/8								15.0	1.35
3																												
4																												
5																												

STANDARD SIGN
D5-64

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Charles J Spay
for State Traffic Engineer

DATE 1/09/02 PLATE NO. D5-64.5

STATE PROJECT NUMBER:

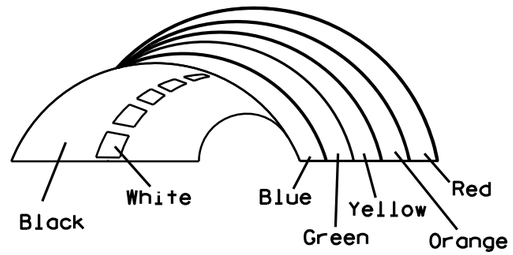
SHEET NO: 211 E

* 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

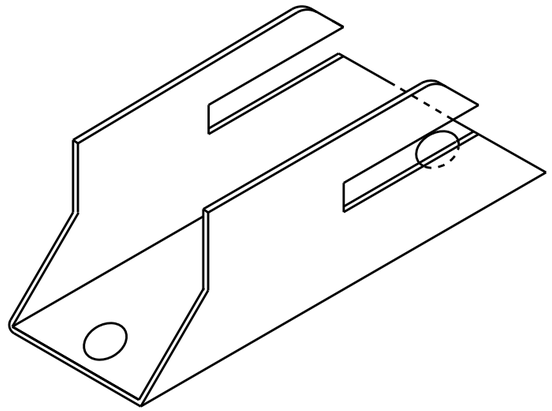
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

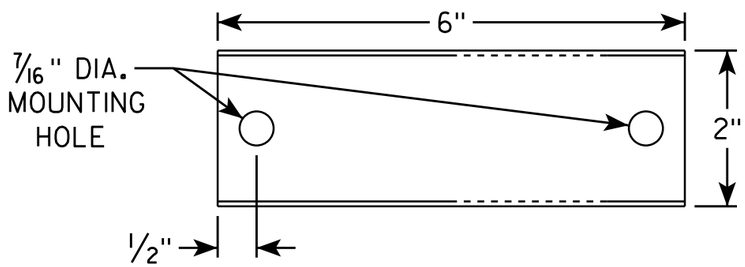
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 212

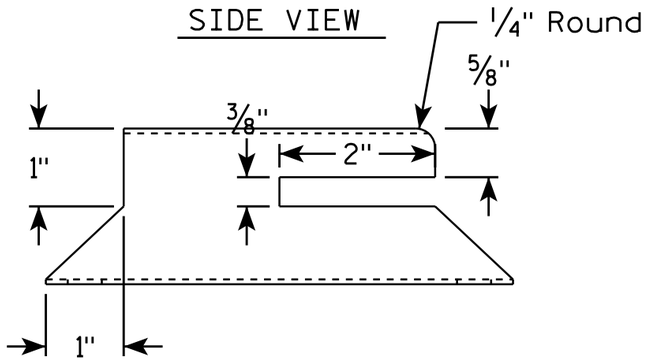
ISOMETRIC VIEW



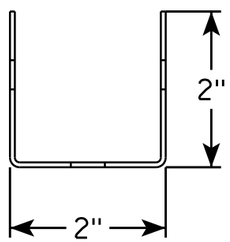
TOP VIEW



SIDE VIEW



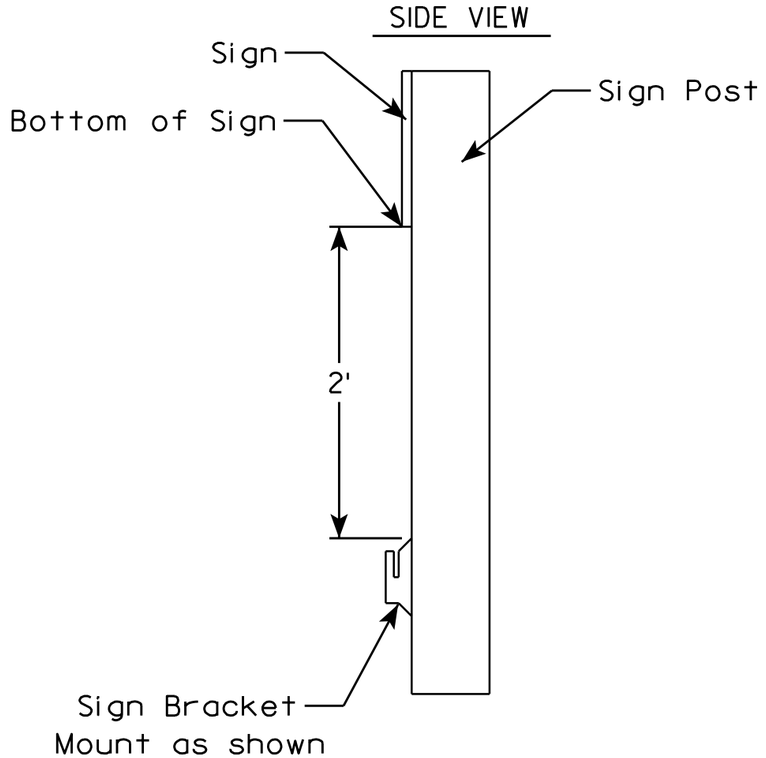
END VIEW



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

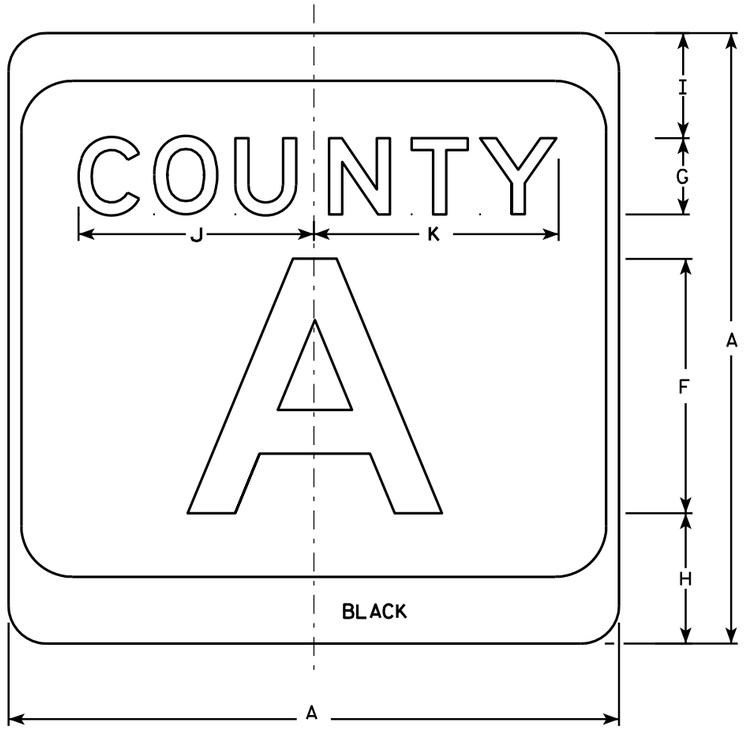
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

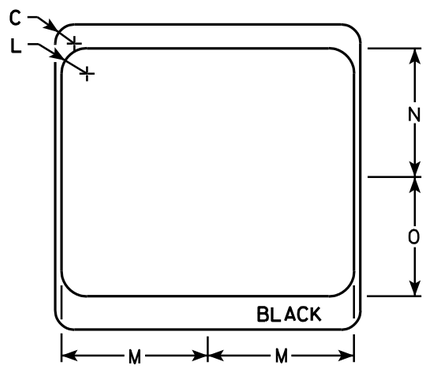
DATE 4/26/16 PLATE I55-56B.2

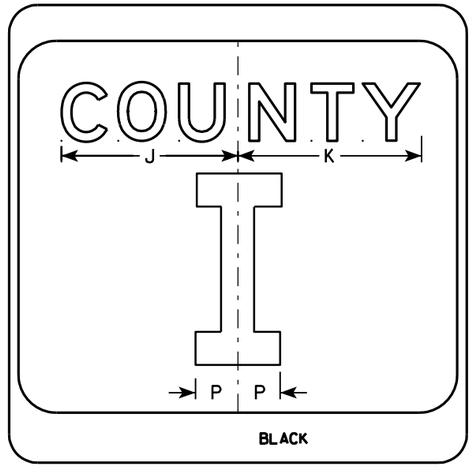
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

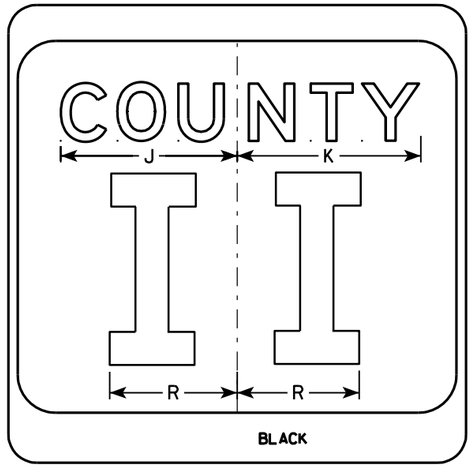
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42



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

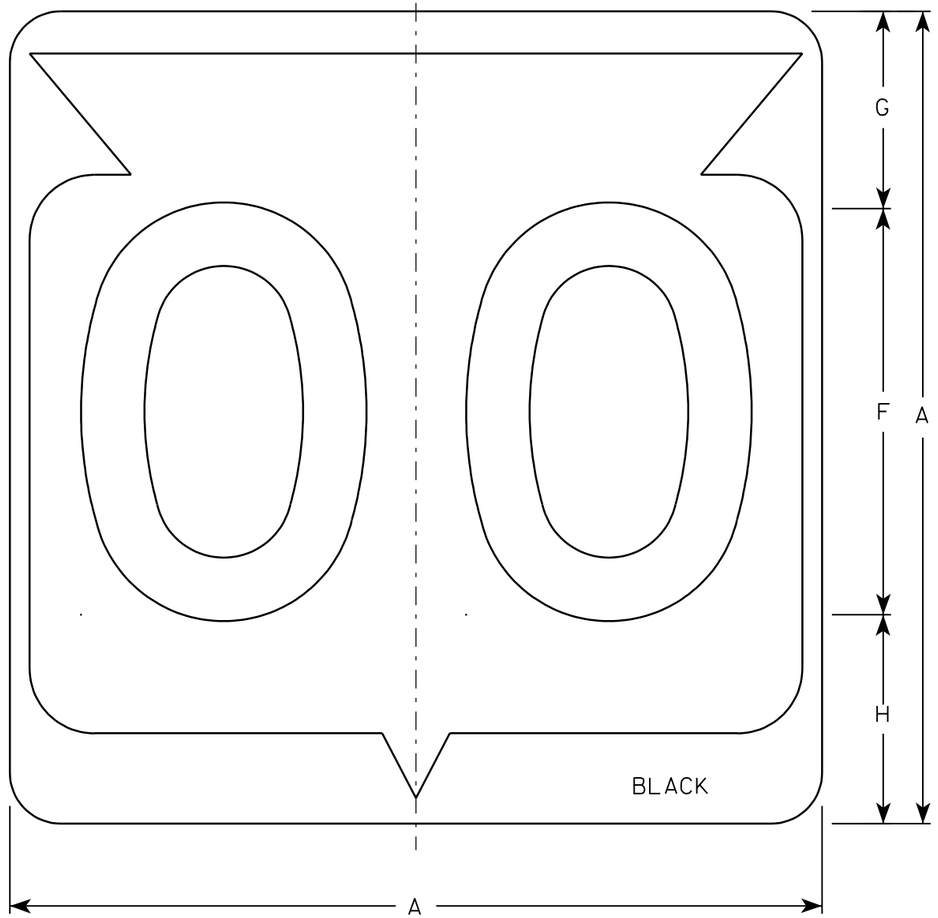
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

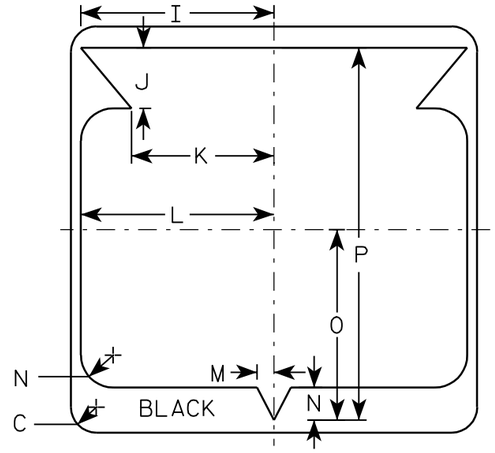
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 214	E



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

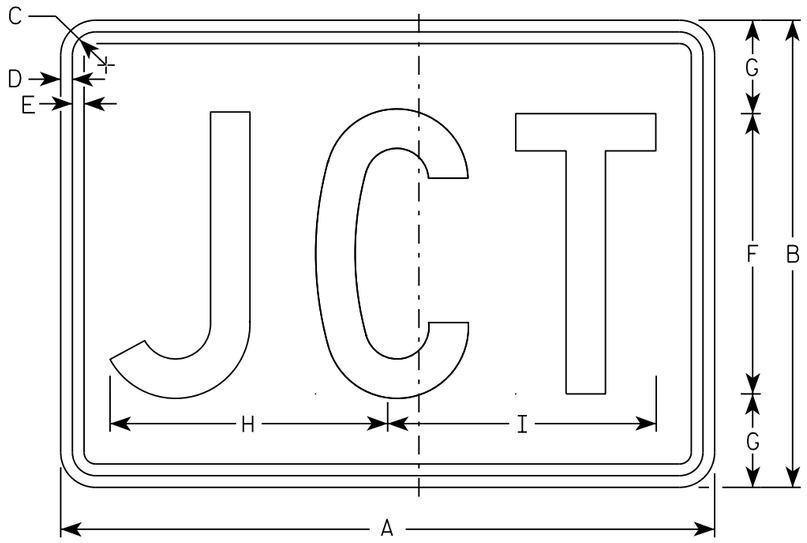
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

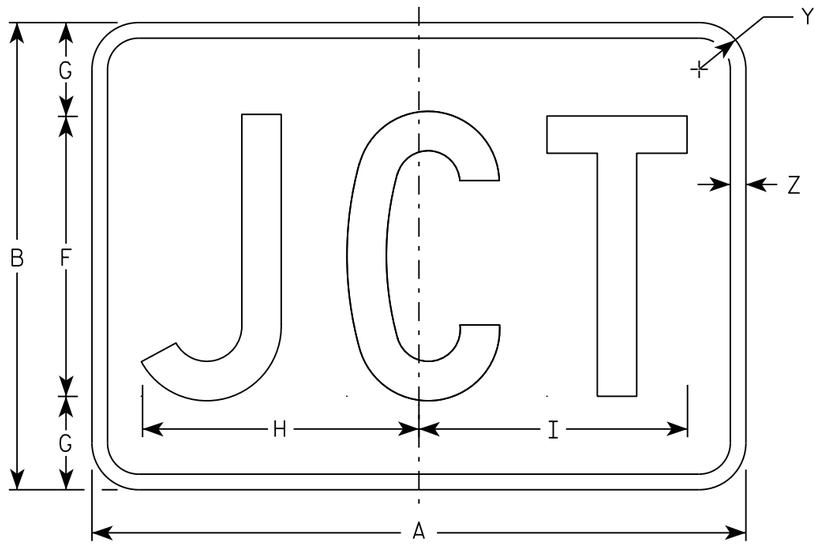
APPROVED Chester J Spang for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 215	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

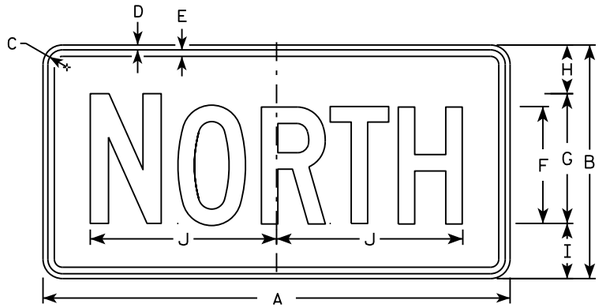
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

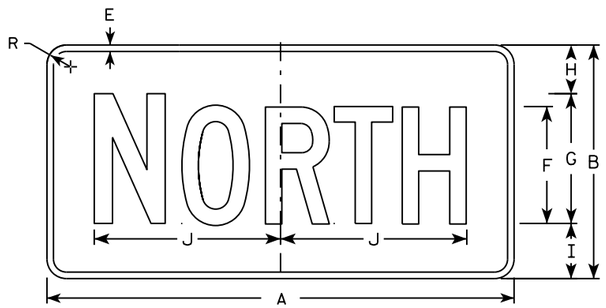
DATE 10/15/15 PLATE 216 12-1.12

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



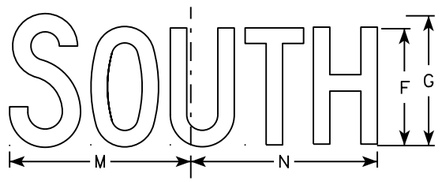
M3-1
MM3-1
MP3-1



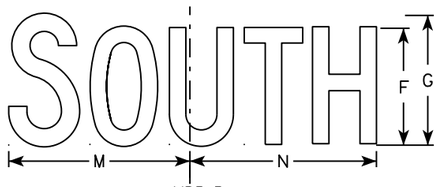
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

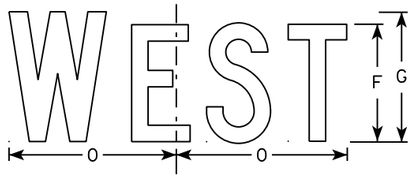
MB3-2
MK3-2
MN3-2



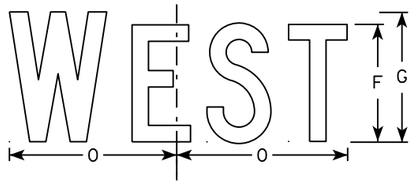
M3-3
MM3-3
MP3-3



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

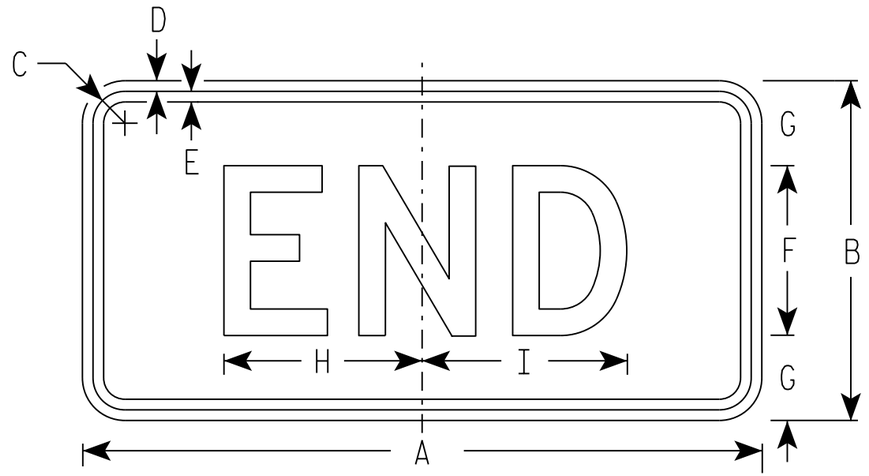
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

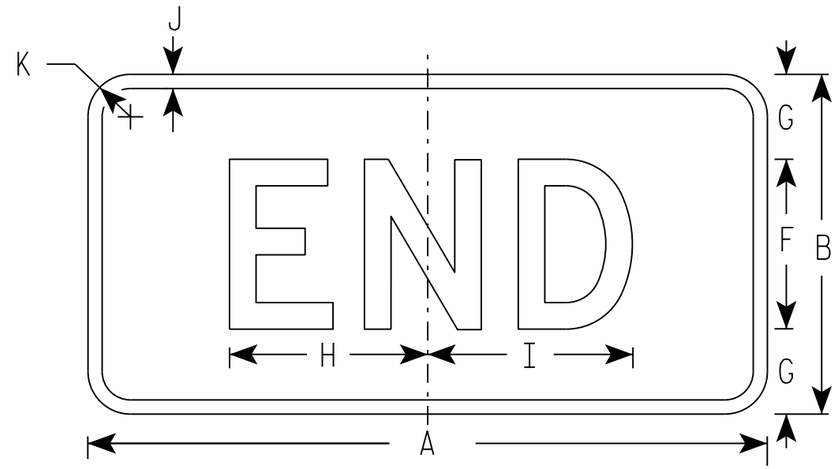
DATE 10/15/15 PLATE NO M3-1.14

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



M4-6
MM4-6
MP4-6



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

NOTES

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

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

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

STANDARD SIGN
M4-6

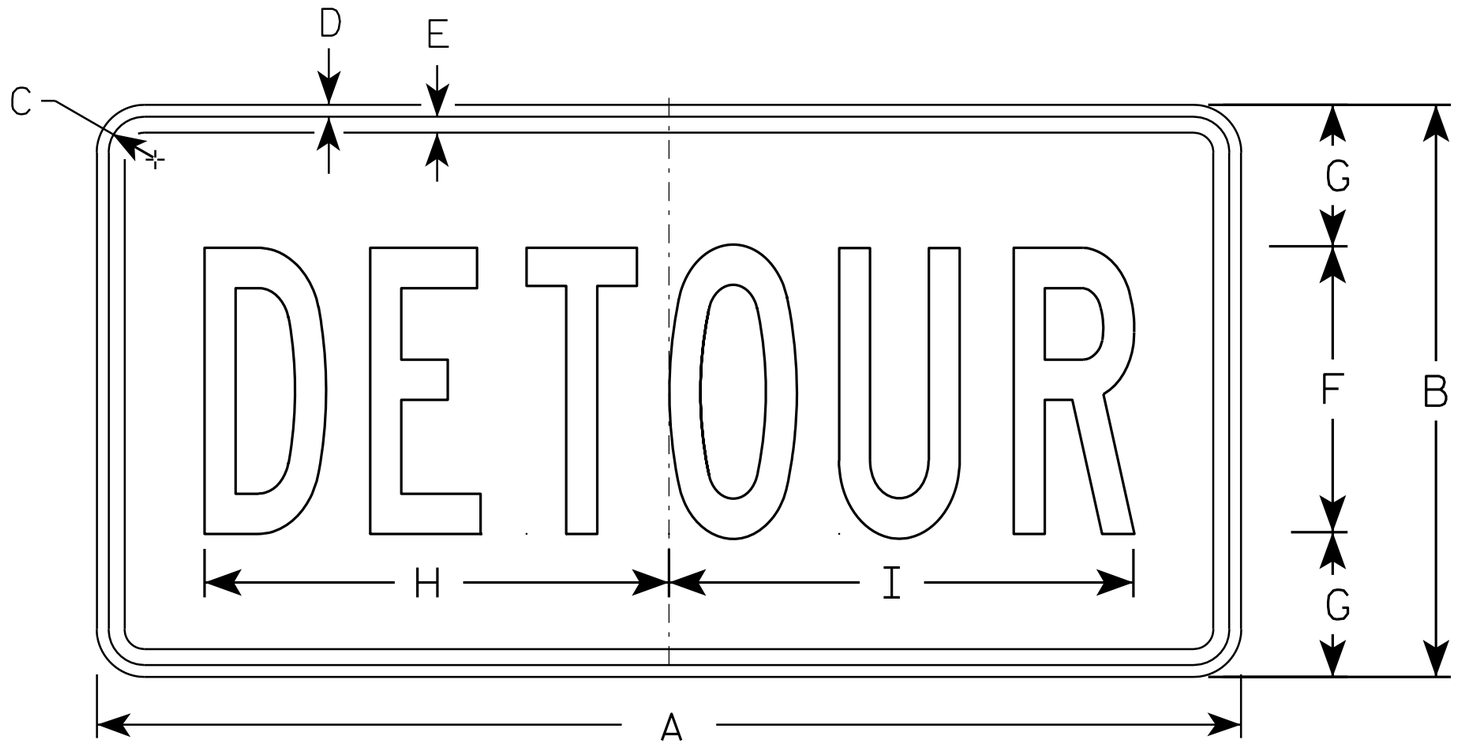
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 218 '14-7.9

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

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



M4-8

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

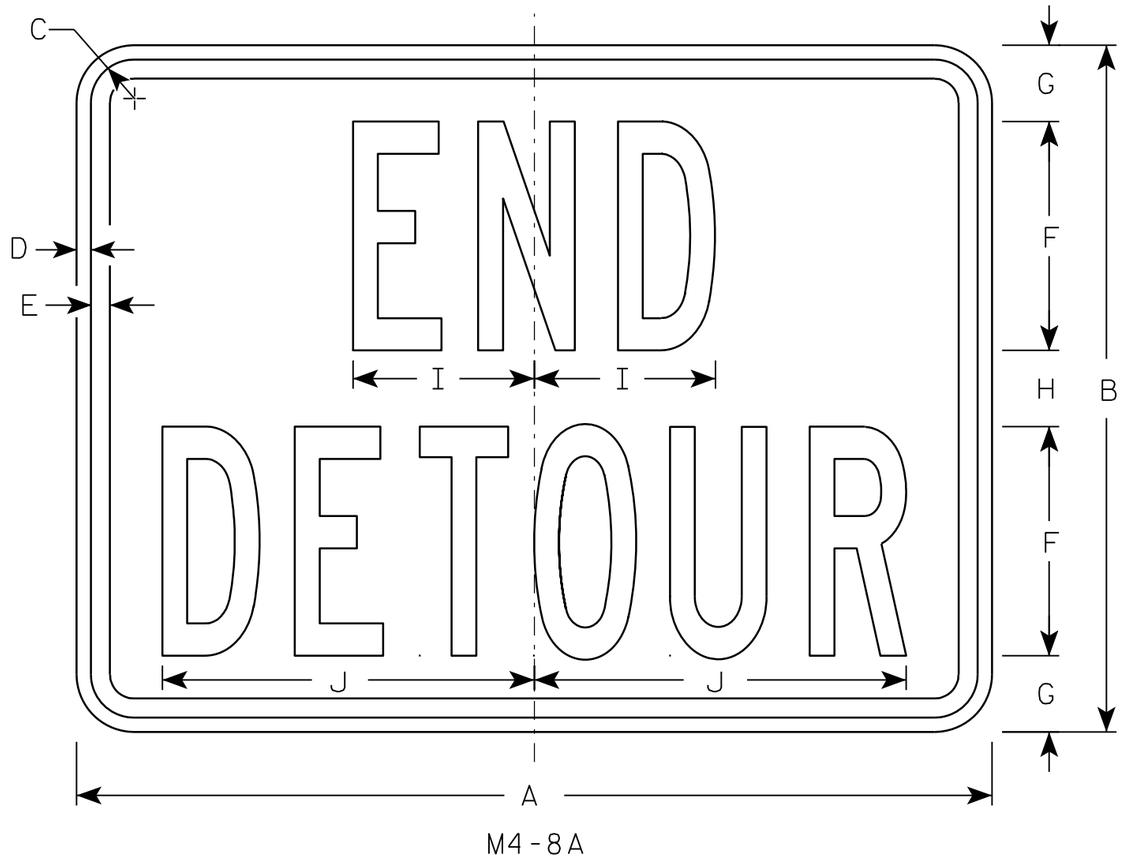
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 219	E



M4-8A

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

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	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

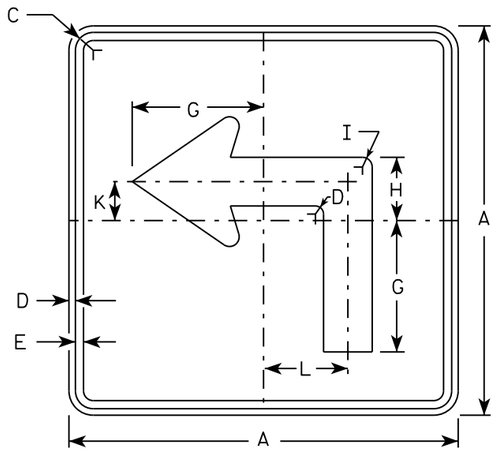
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

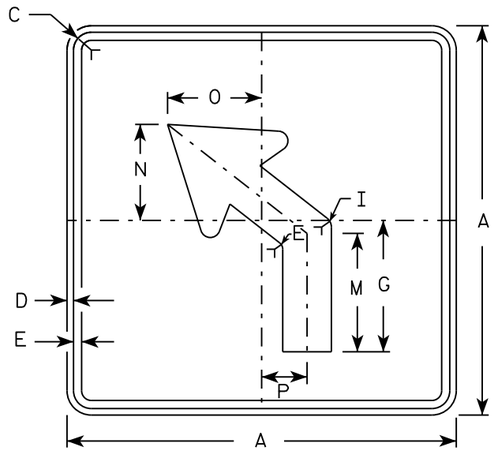
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

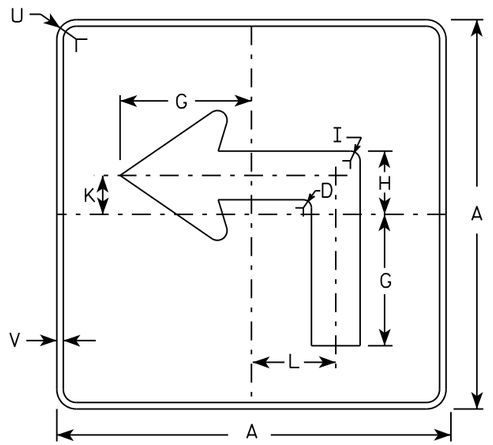
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 220	E



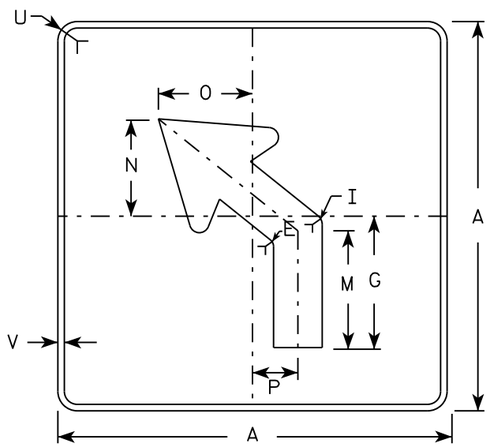
M5-1L
MM5-1L
MO5-1L
MP5-1L



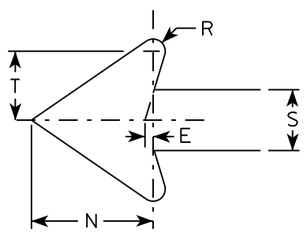
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

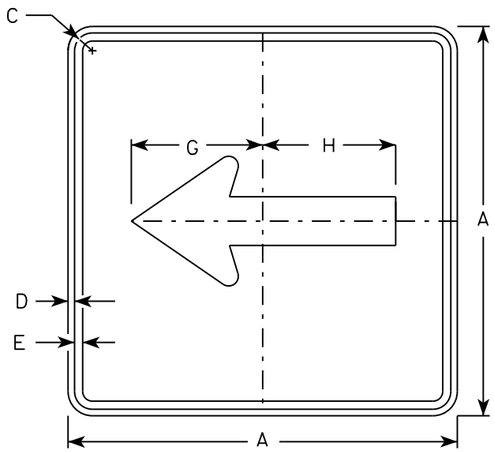
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

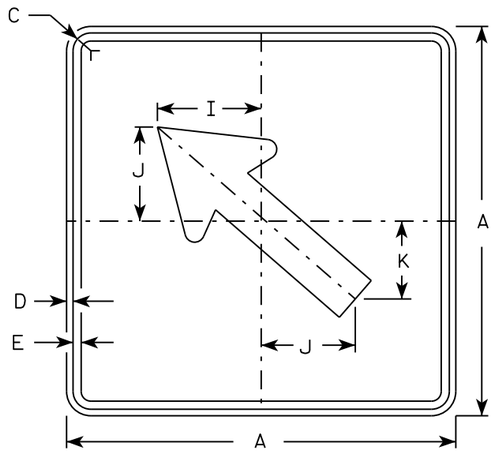
DATE 10/15/15 PLATE NO. M5-1.13

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



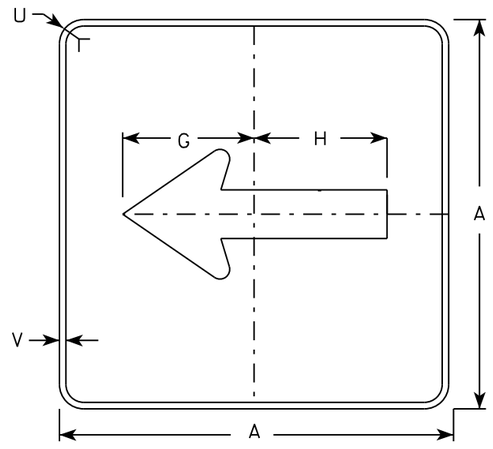
M6-1
MM6-1
MO6-1
MP6-1



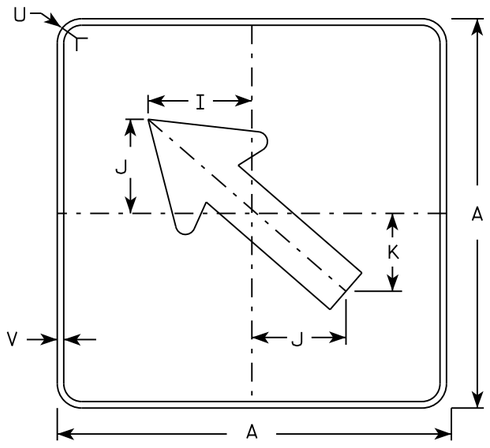
M6-2
MM6-2
MO6-2
MP6-2

NOTES

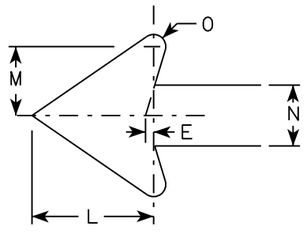
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background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

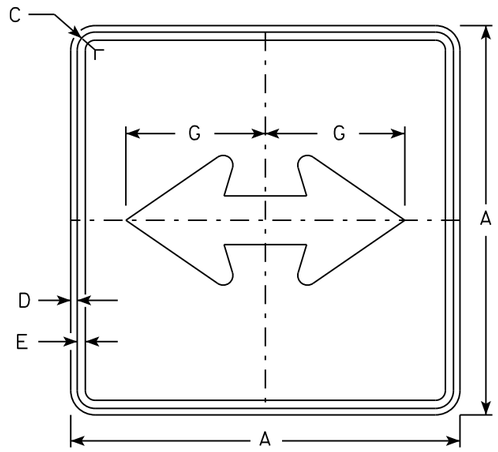
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

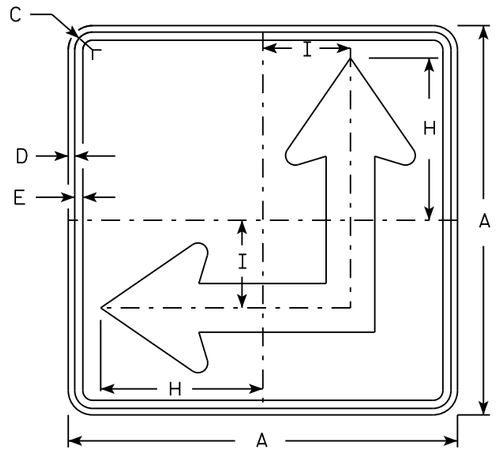
DATE 10/15/15 PLATI 222 M6-1.15

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



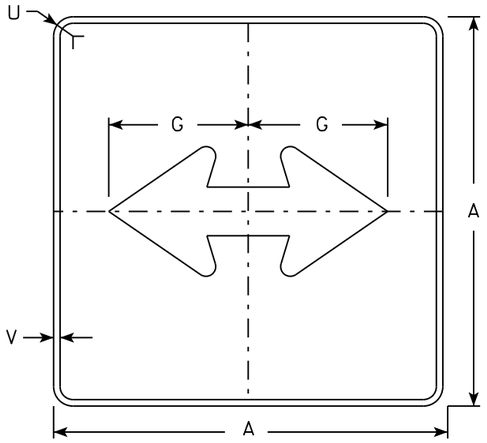
M6-4
MM6-4
MO6-4
MP6-4



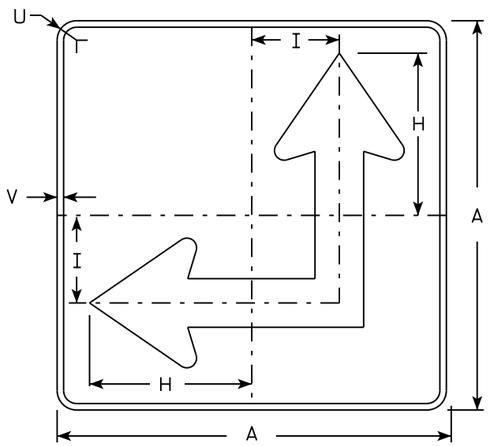
M6-6
MM6-6
MO6-6
MP6-6

NOTES

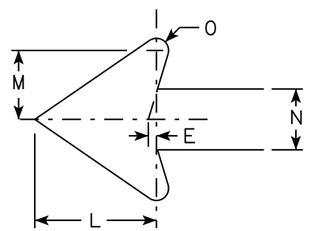
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background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

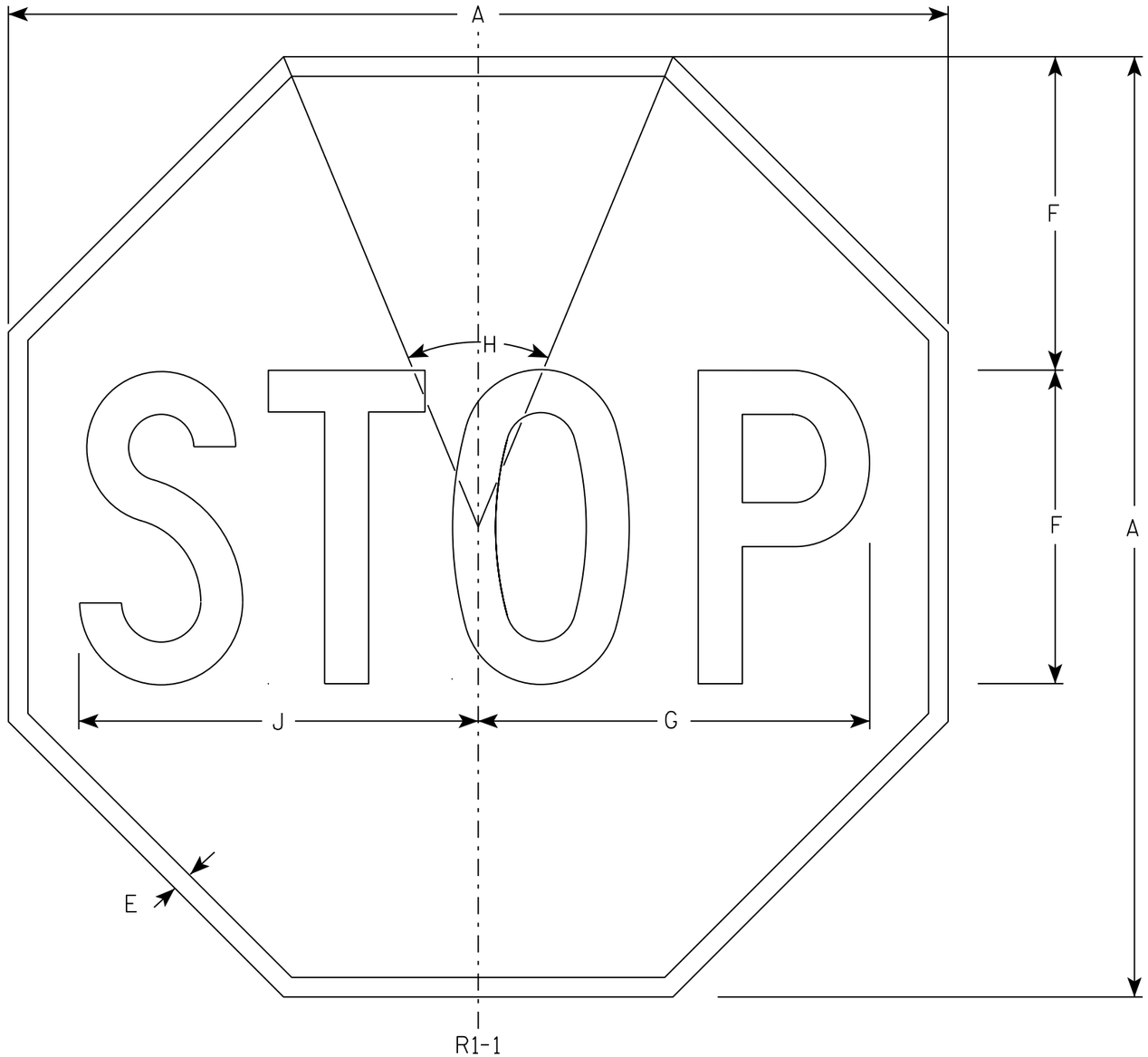
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 223 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

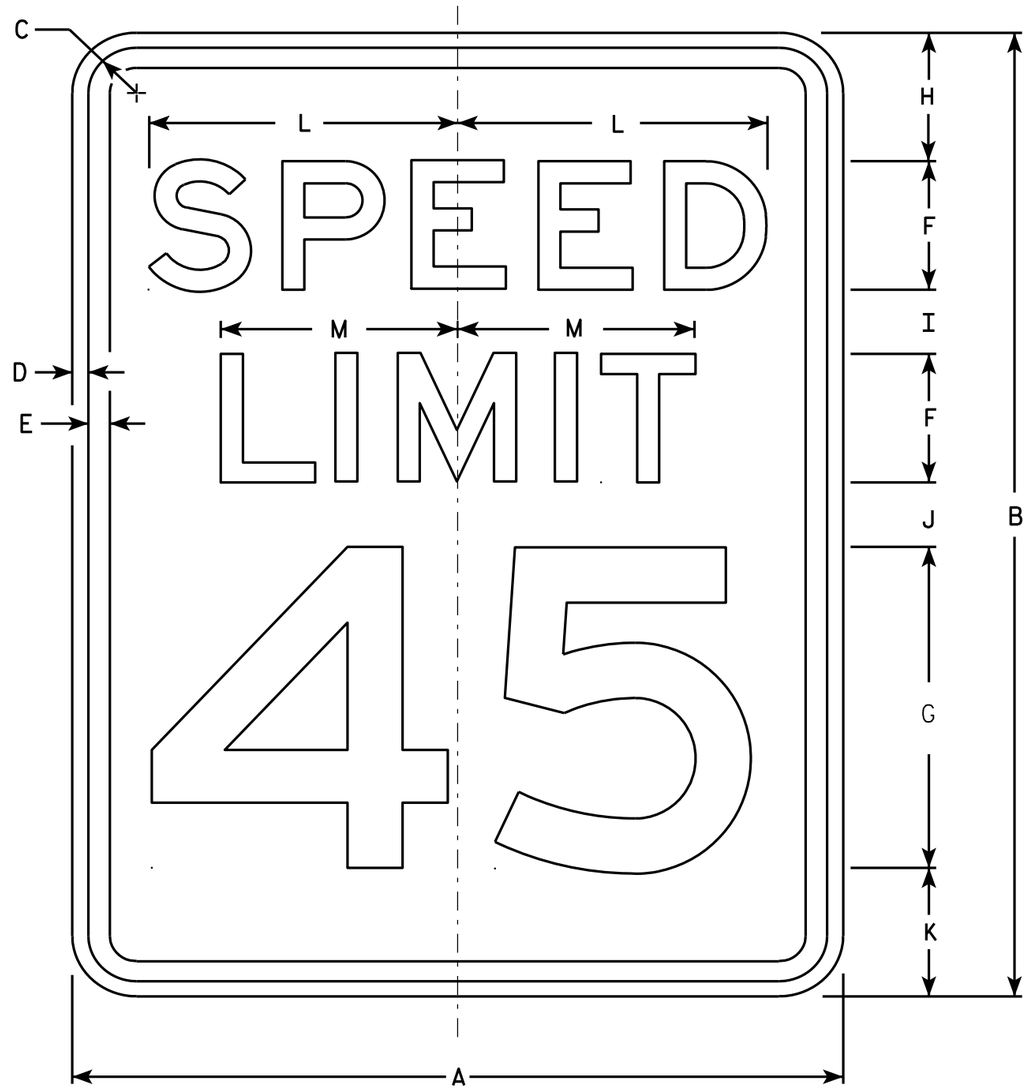
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE 224 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

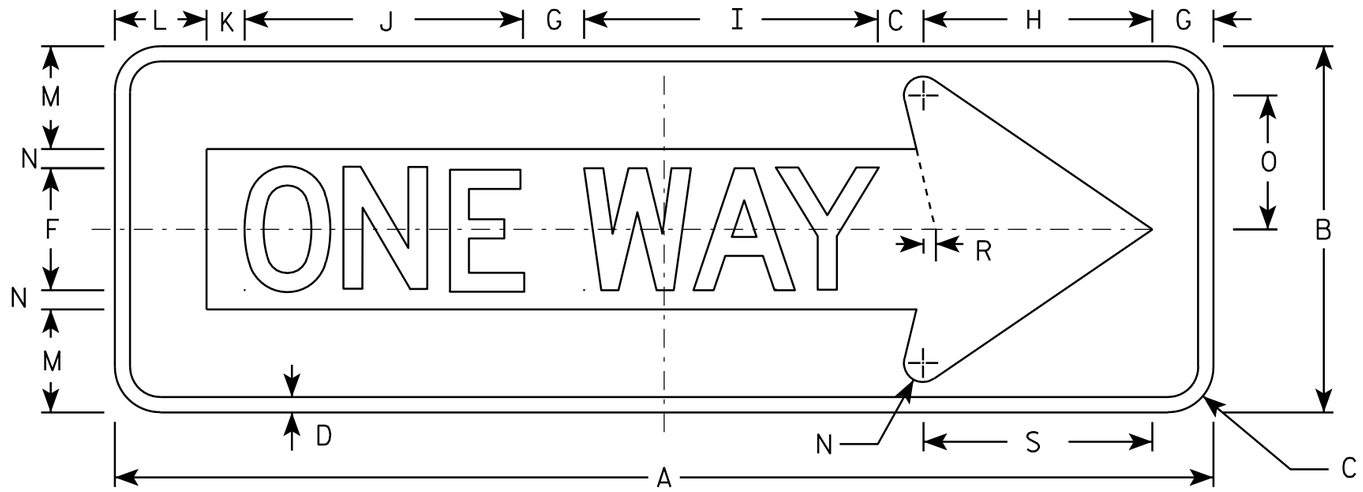
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

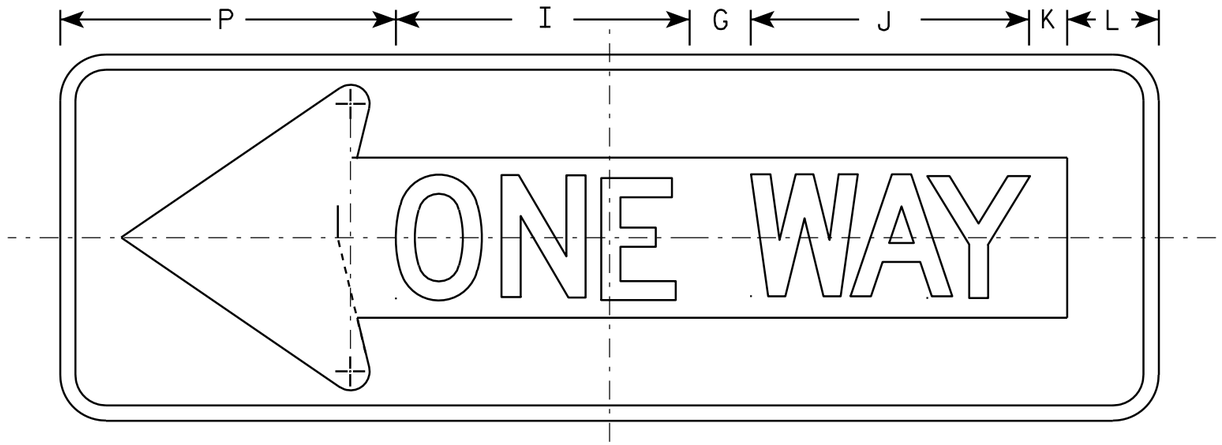
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 225 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
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.



R6-1L

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	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

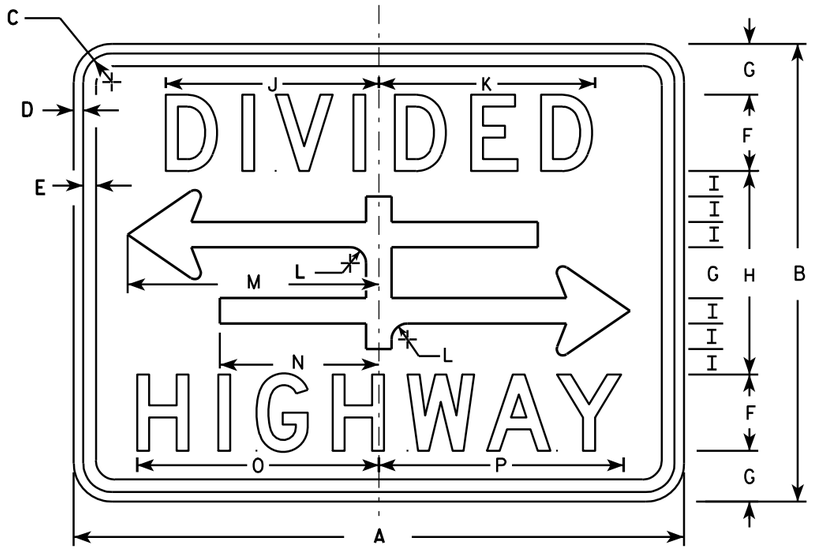
DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

SHEET NO: 226 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R61.DGN PLOT DATE : 17-DEC-2010 14:11 PLOT BY : dotsja

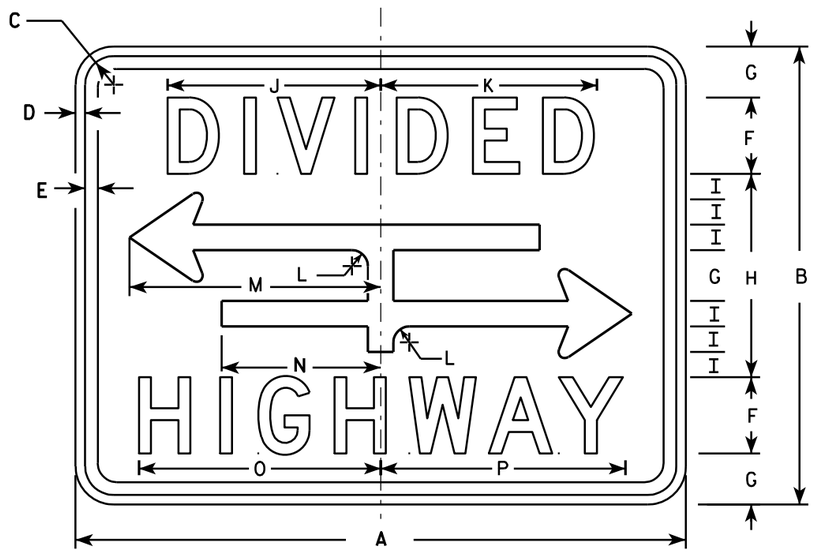
WISDOT/CADDS SHEET 42



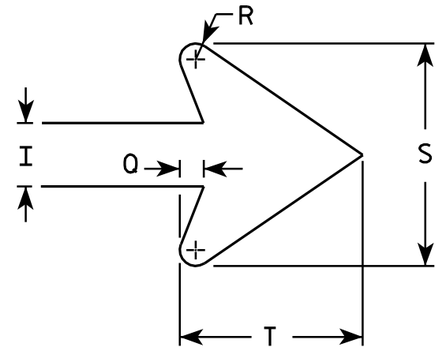
R6-3

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.



R6-3A



ARROW DETAIL

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

STANDARD SIGN
R6-3 & R6-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

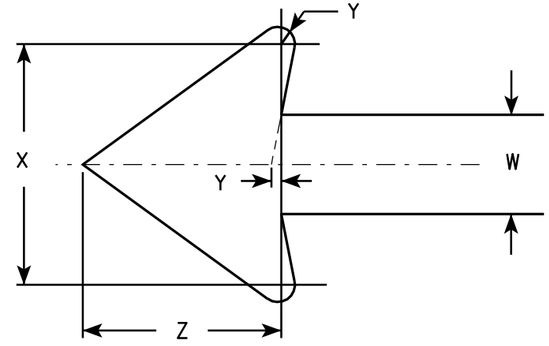
PROJECT NO:

SHEET NO: 227 E

R7-51

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 - Red
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. R7-51D (double arrow)
   R7-51R (right arrow)
   R7-51L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



ARROW DETAIL

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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	4 7/8	5/8	1 3/4	2 1/2	4 3/8	3 7/8	3/4	1 3/4	1/8	1 1/2	1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 3/4	1 1/8	1 1/2	3 1/8	5 1/2	5 7/8	1 1/8	2 5/8	1/4	2 1/4	3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
4																											
5																											

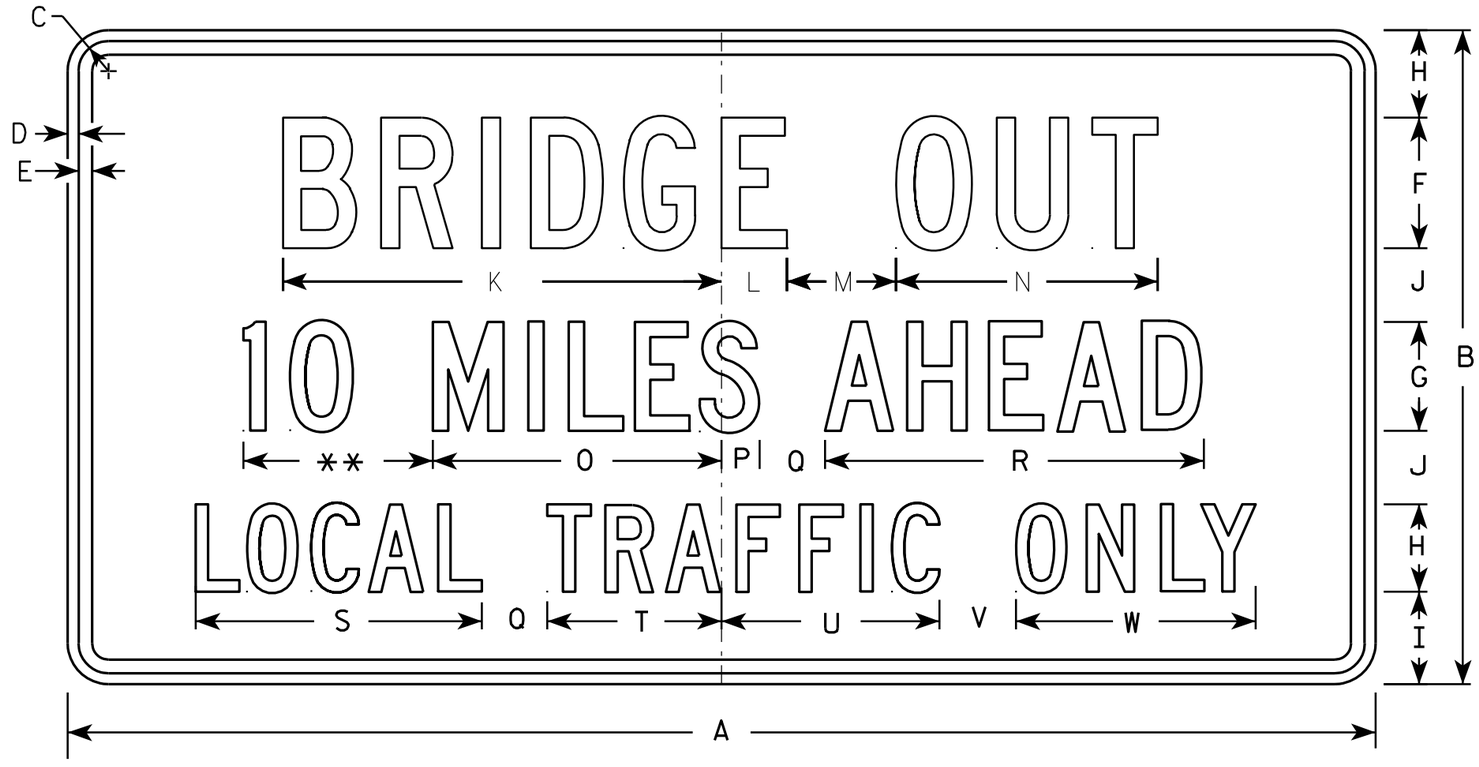
STANDARD SIGN
R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-51.6

PROJECT NO:	HWY:	COUNTY:			SHEET NO: 228	E



R11-3B

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.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

** See Note 5

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				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				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				12.5
3																											
4																											
5																											

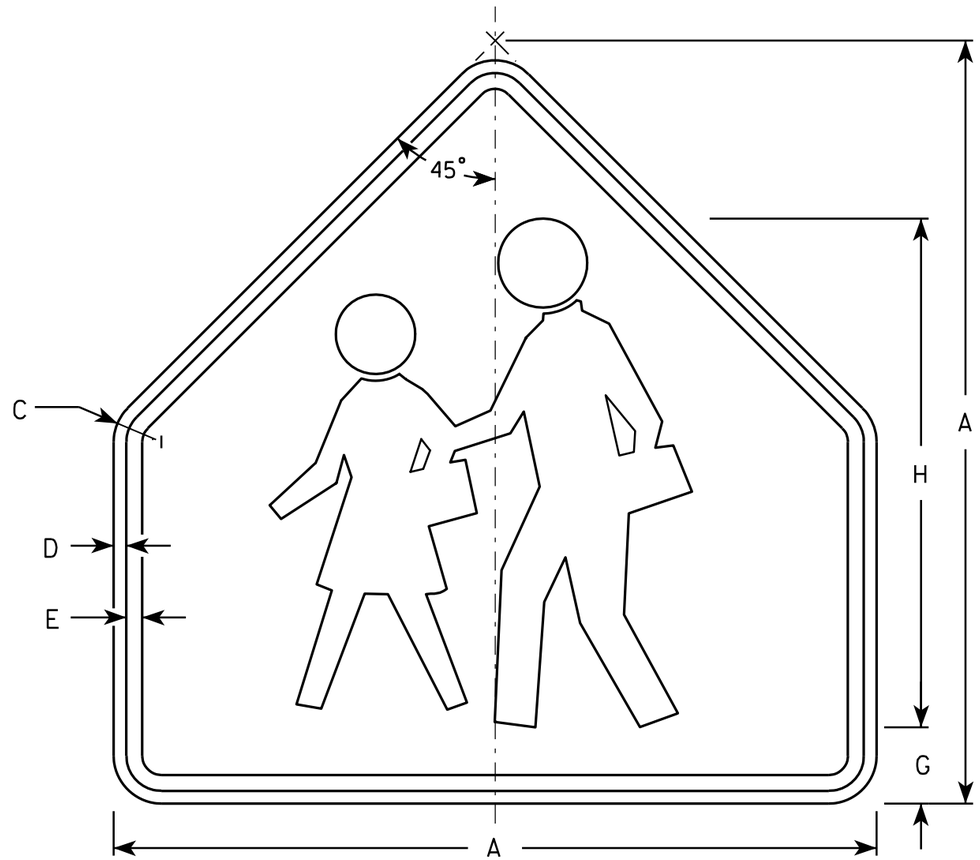
STANDARD SIGN
R11-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 229 | E



S1-1

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

SIZE	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		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

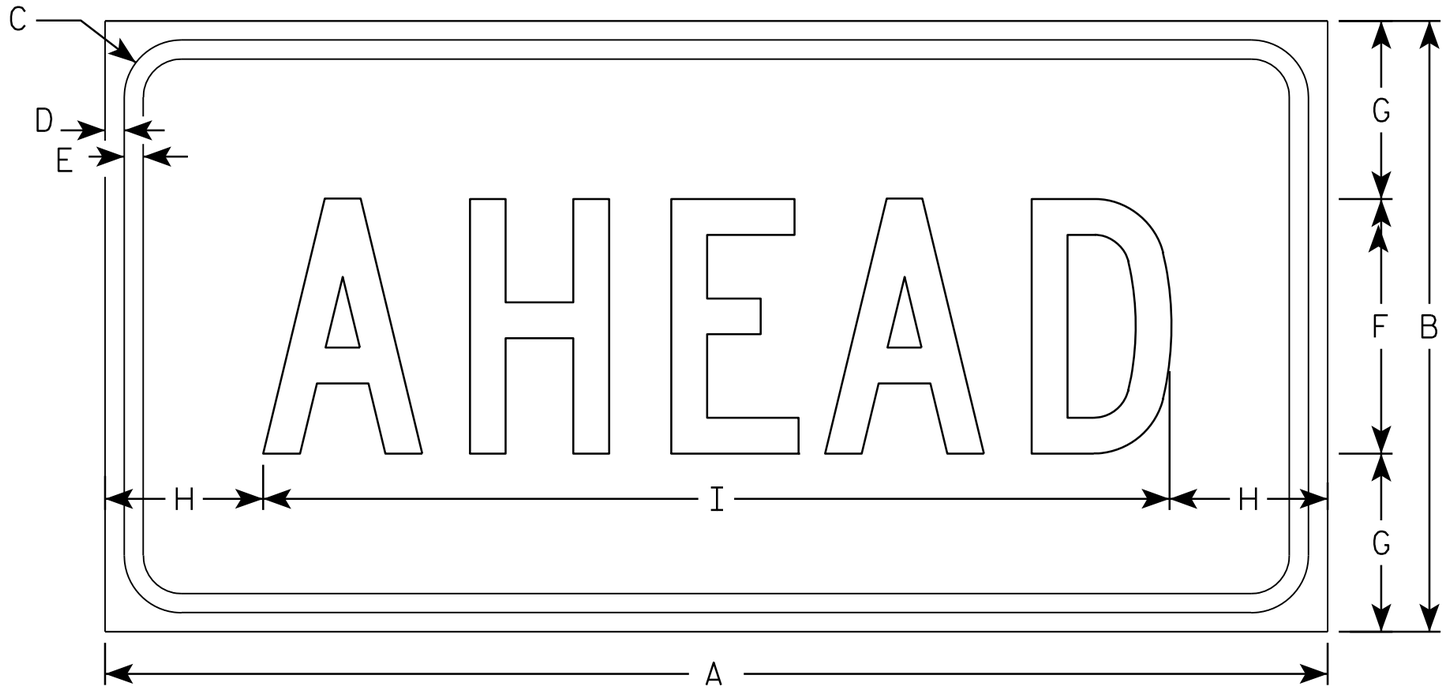
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 230	E



S16-9P

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

SIZE	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	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

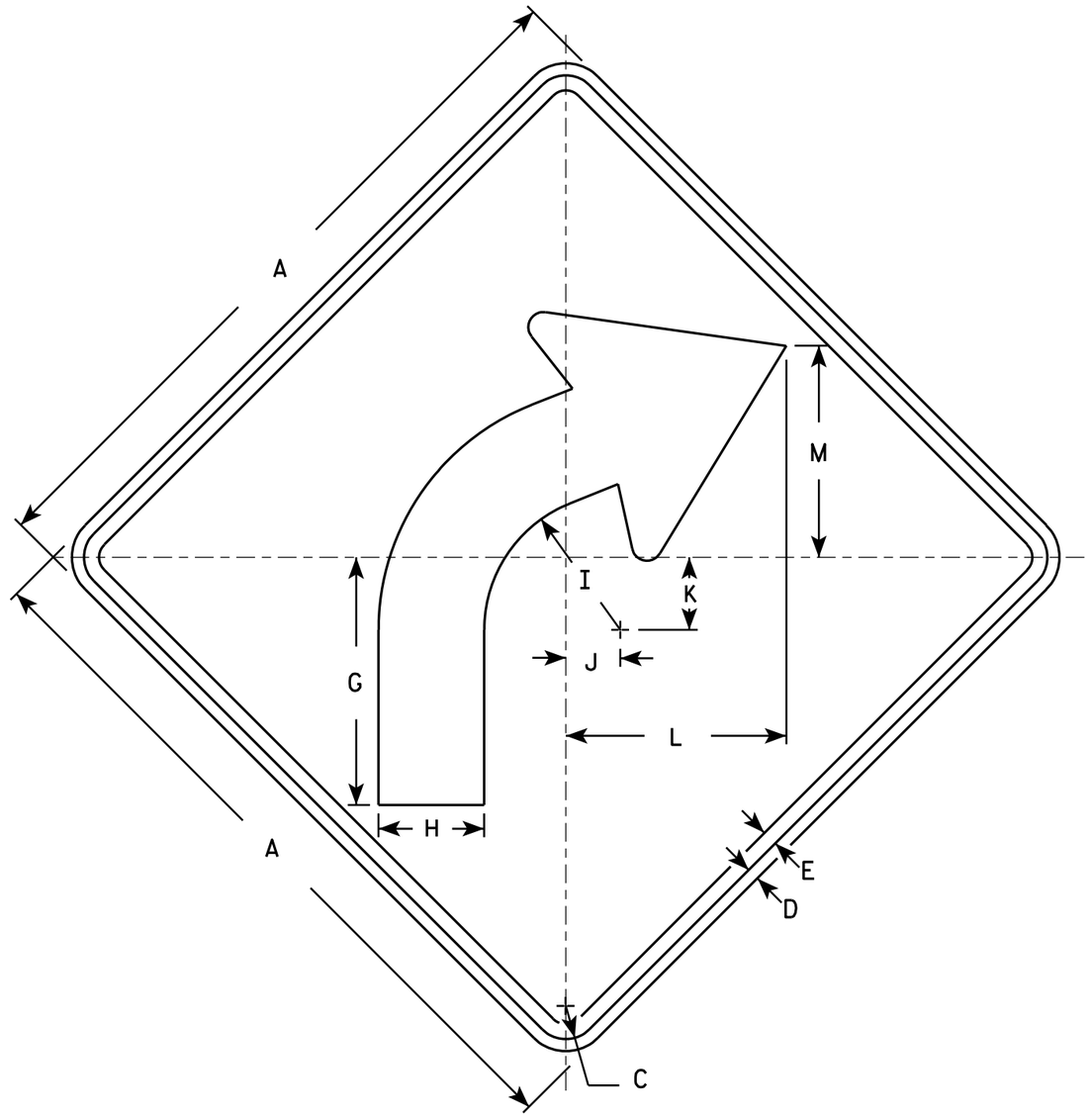
STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

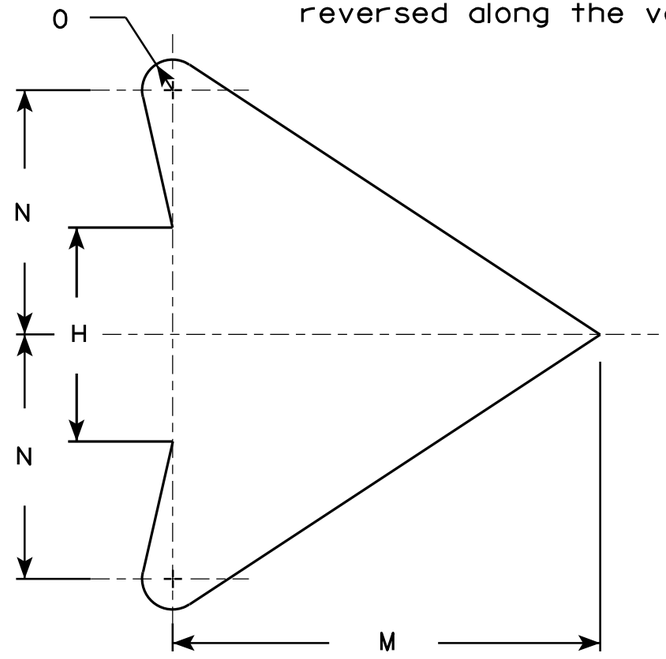
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 231 | E



W1-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

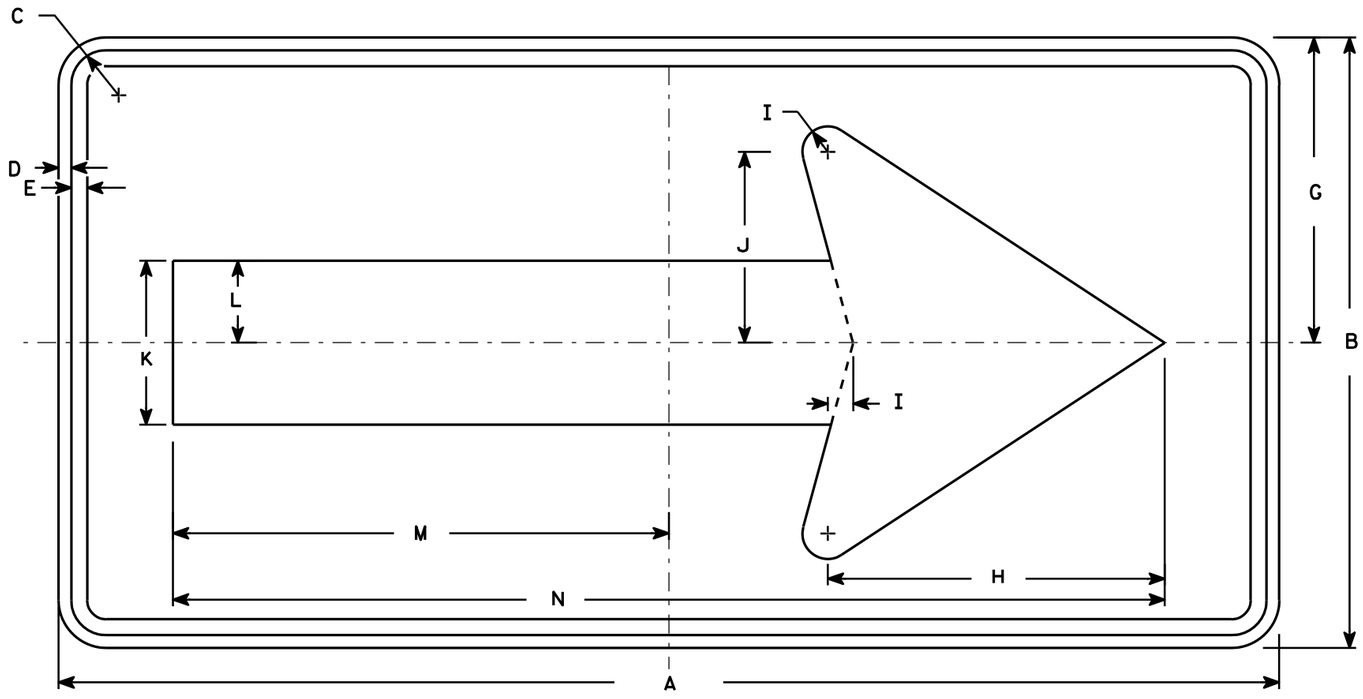
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 232	E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

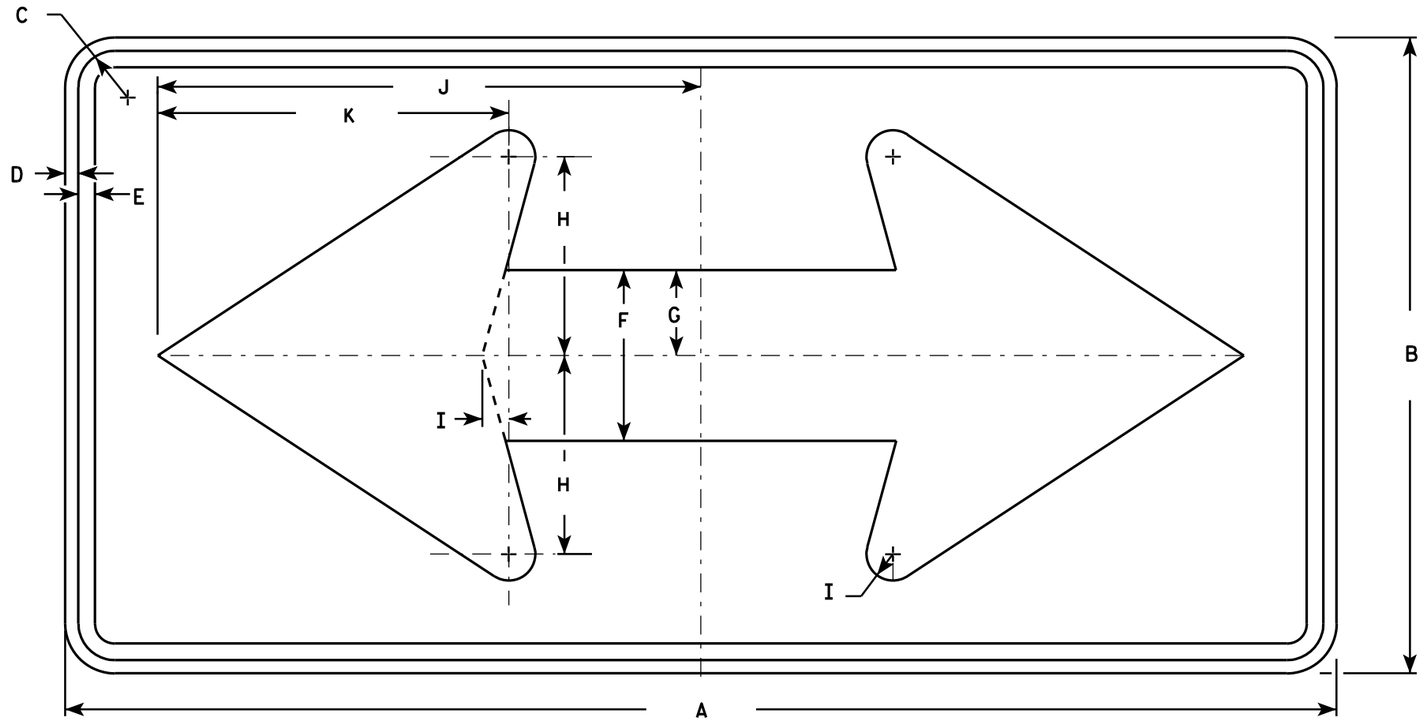
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 233



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

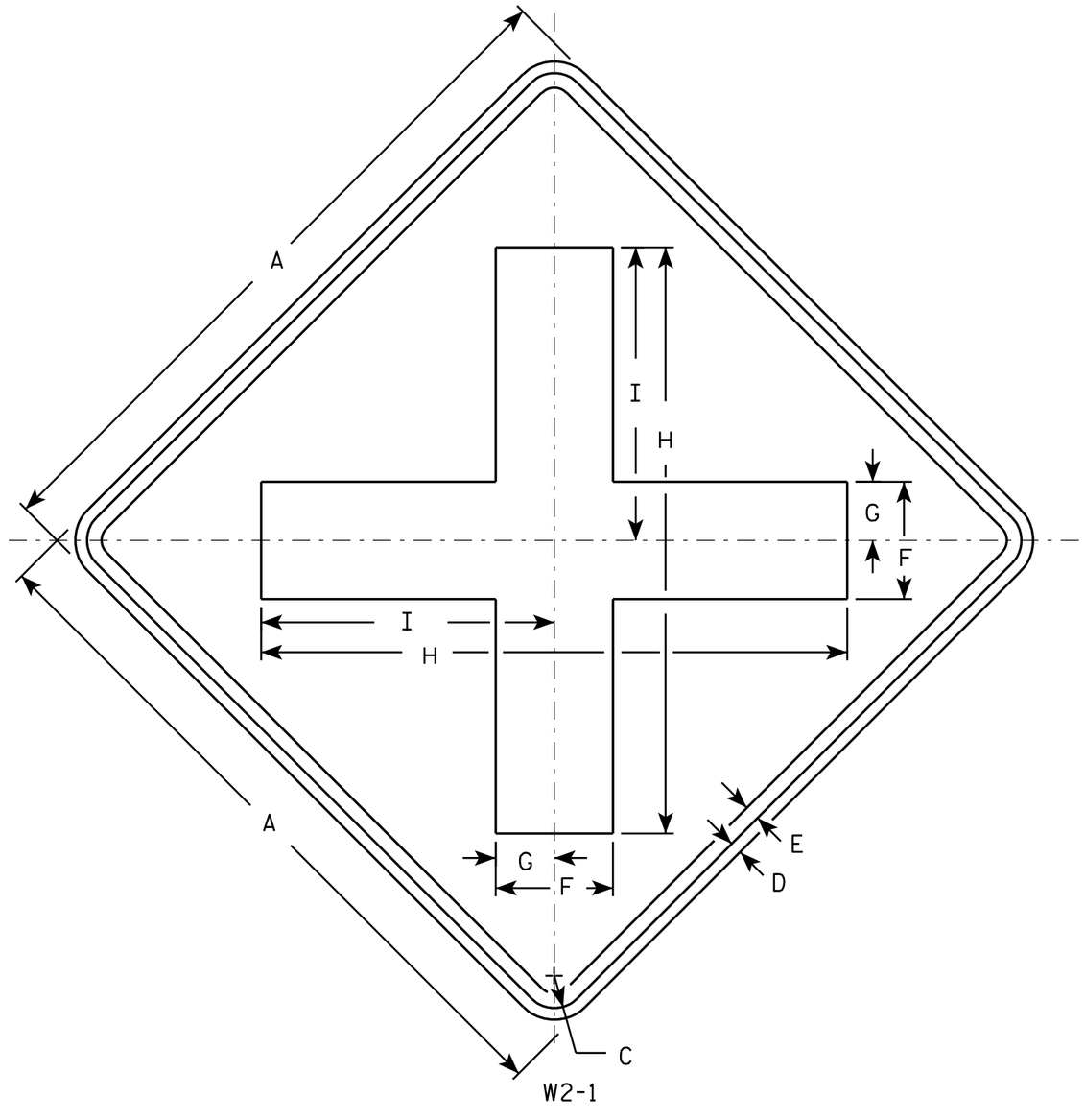
STANDARD SIGN
W1-7

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: 234 | 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																											

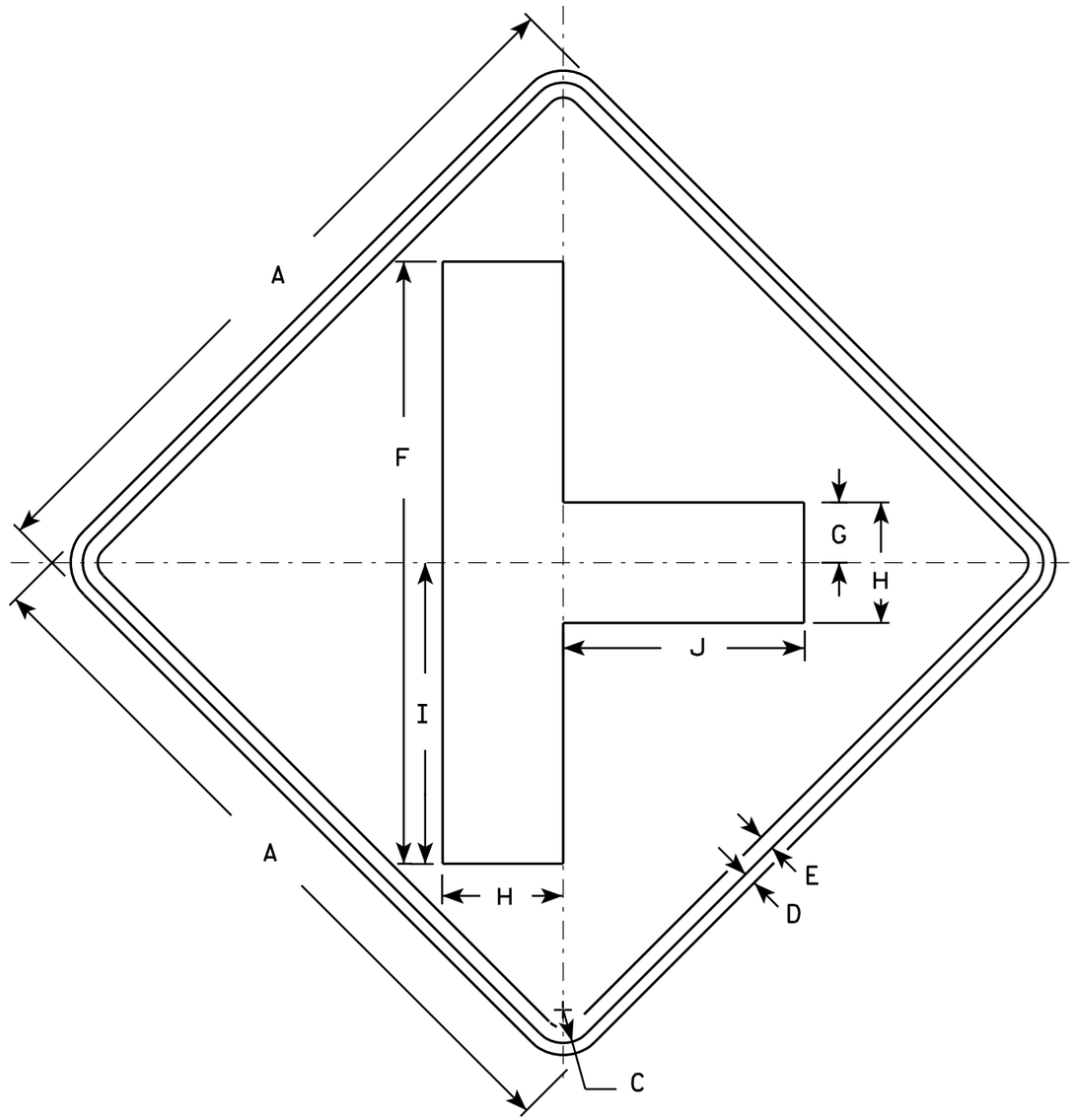
STANDARD SIGN
W2-1

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: 235	E



W2-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	20	2	4	10	8																	4.0
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

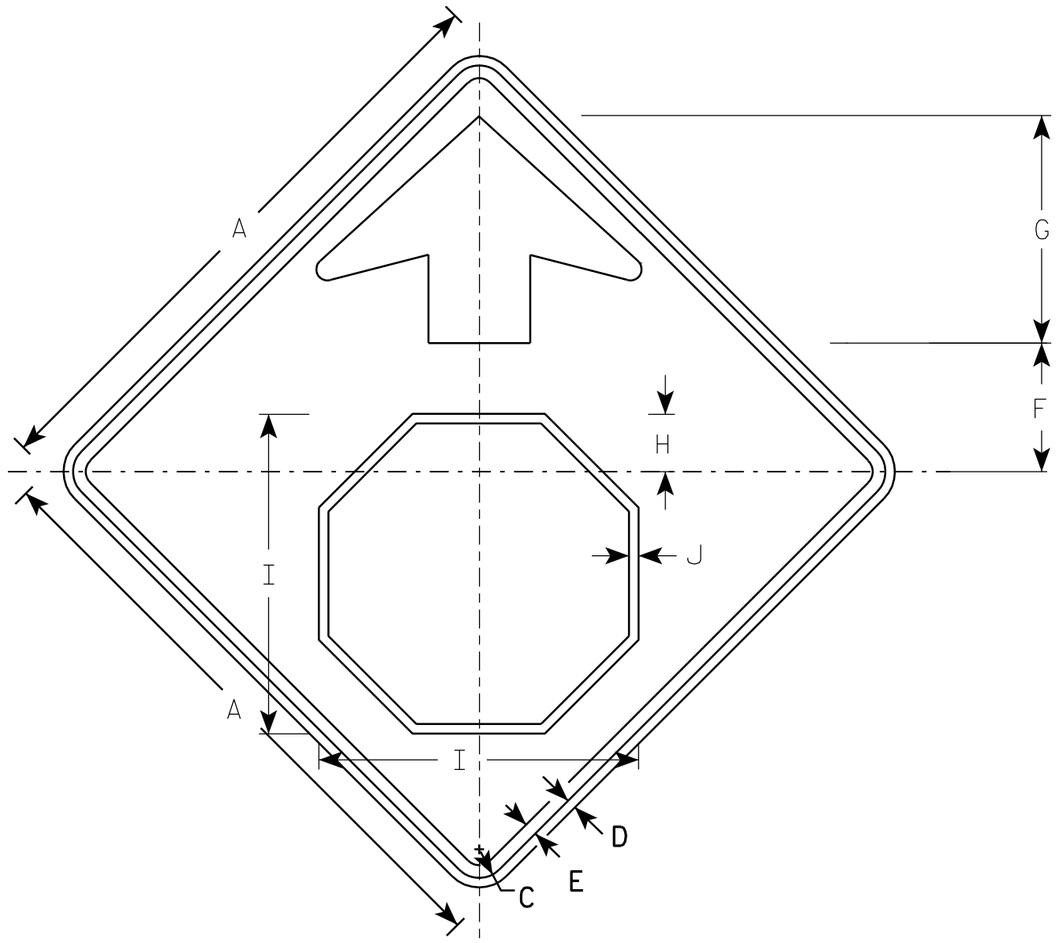
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-2.6

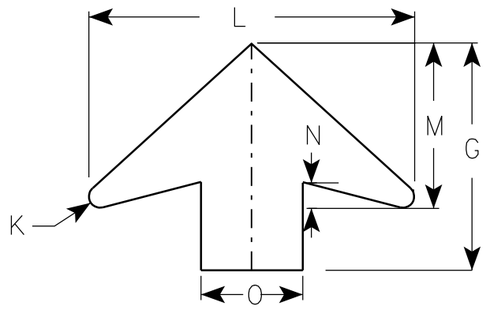
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 236	E



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

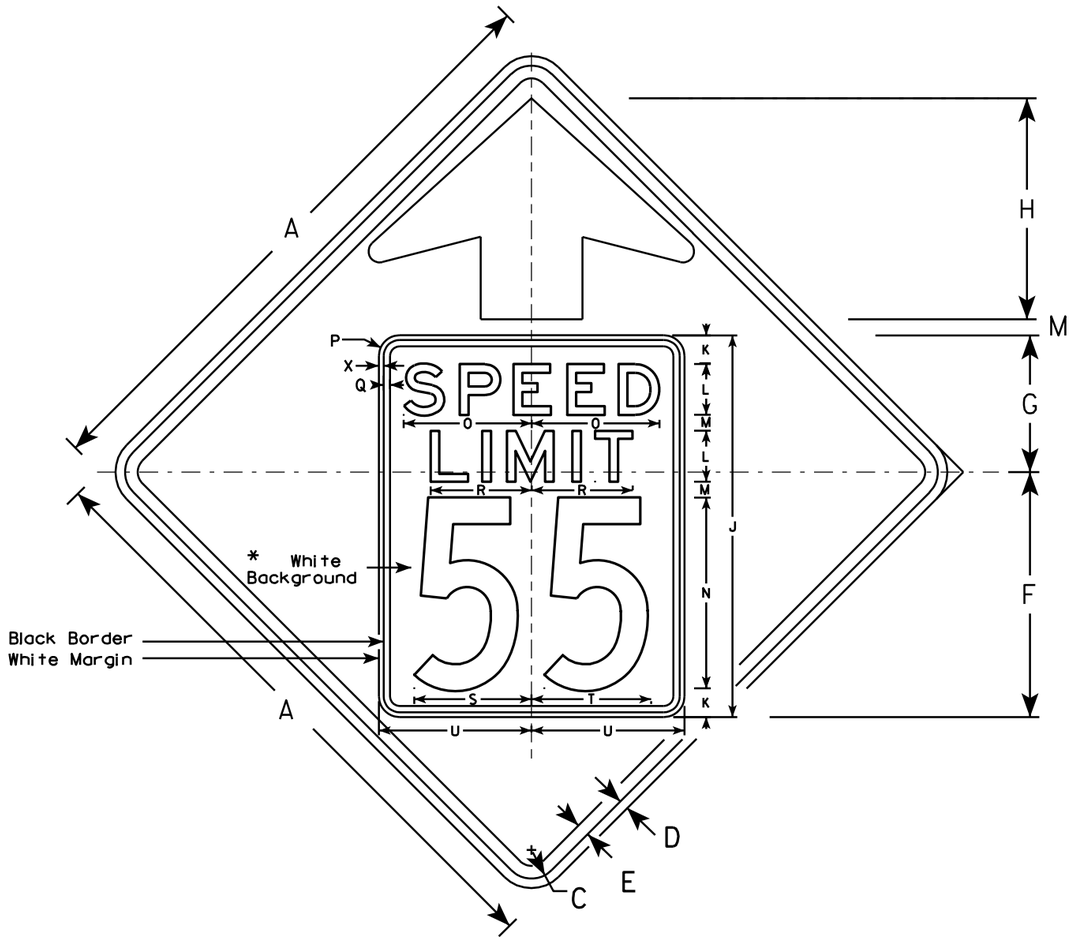
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 237 E

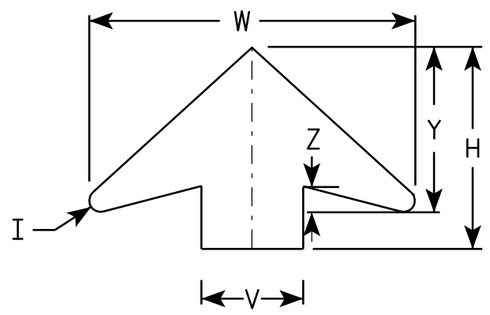


W3-5

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

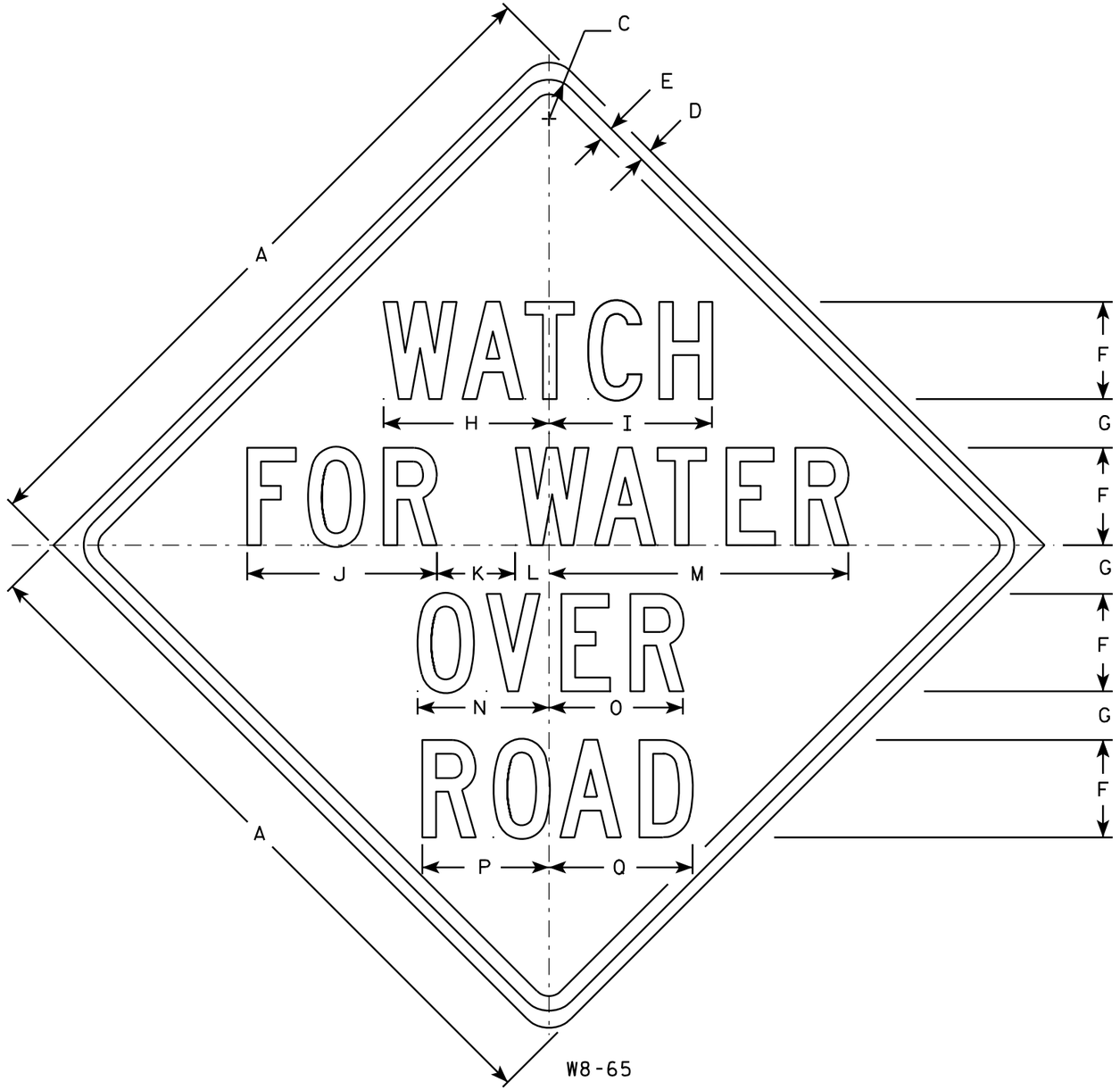
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 238 E



W8-65

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
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	5	2 1/2	8 1/2	8 3/8	9 3/4	4	1 3/4	15 3/8	6 3/4	6 7/8	6 1/2	7 3/8										9.0
2M	36		1 5/8	5/8	3/4	5	2 1/2	8 1/2	8 3/8	9 3/4	4	1 3/4	15 3/8	6 3/4	6 7/8	6 1/2	7 3/8										9.0
3																											
4																											
5																											

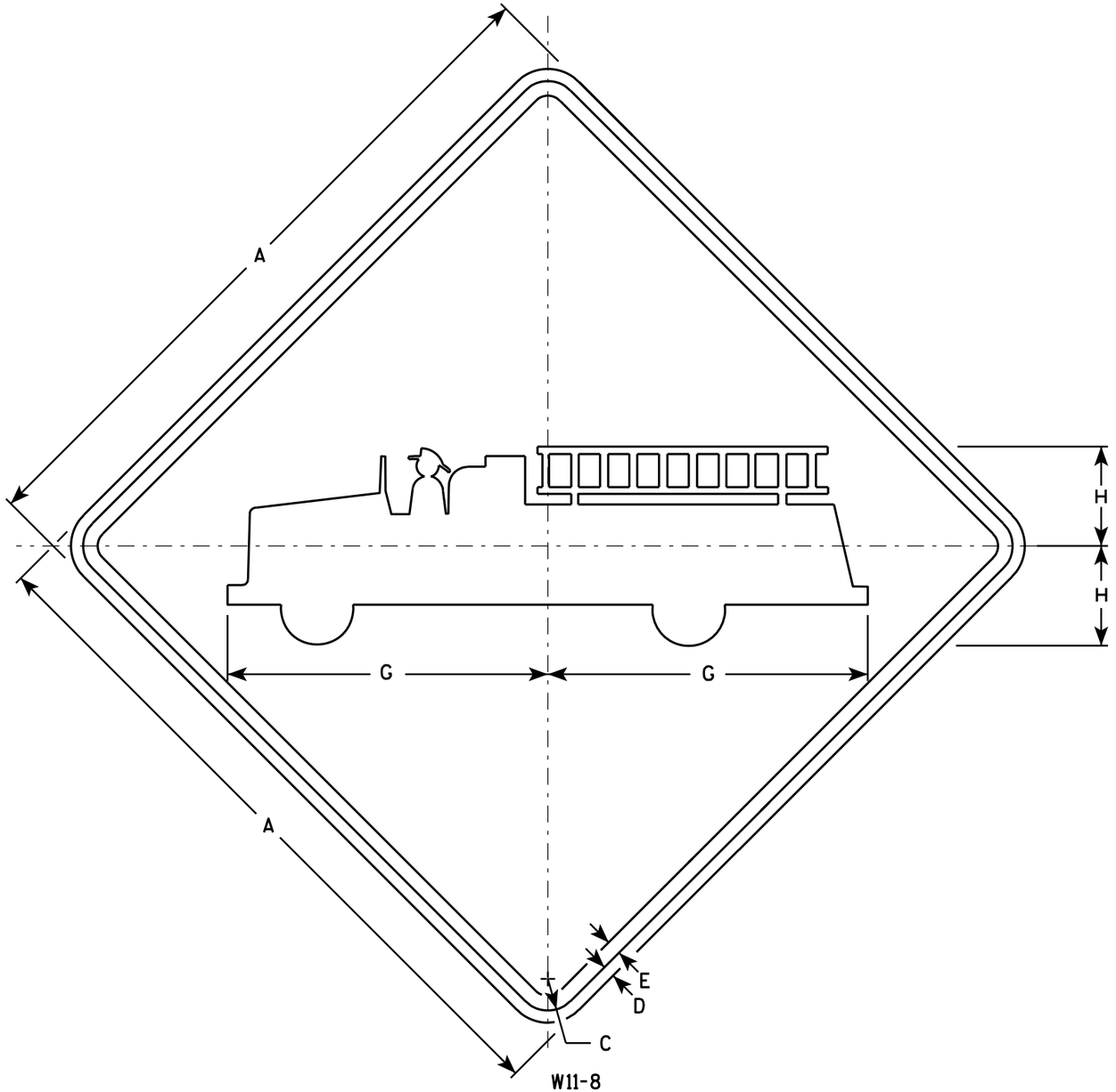
STANDARD SIGN
W8-65

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/18/13 PLATE NO. W8-65.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 239	E



W11-8

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		11	3 3/8																			4.0
2S	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
2M	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
3	36		1 5/8	5/8	3/4		16 1/2	5 1/4																			9.0
4	48		2 1/4	3/4	1		22	7																			16.0
5																											

STANDARD SIGN
W11-8

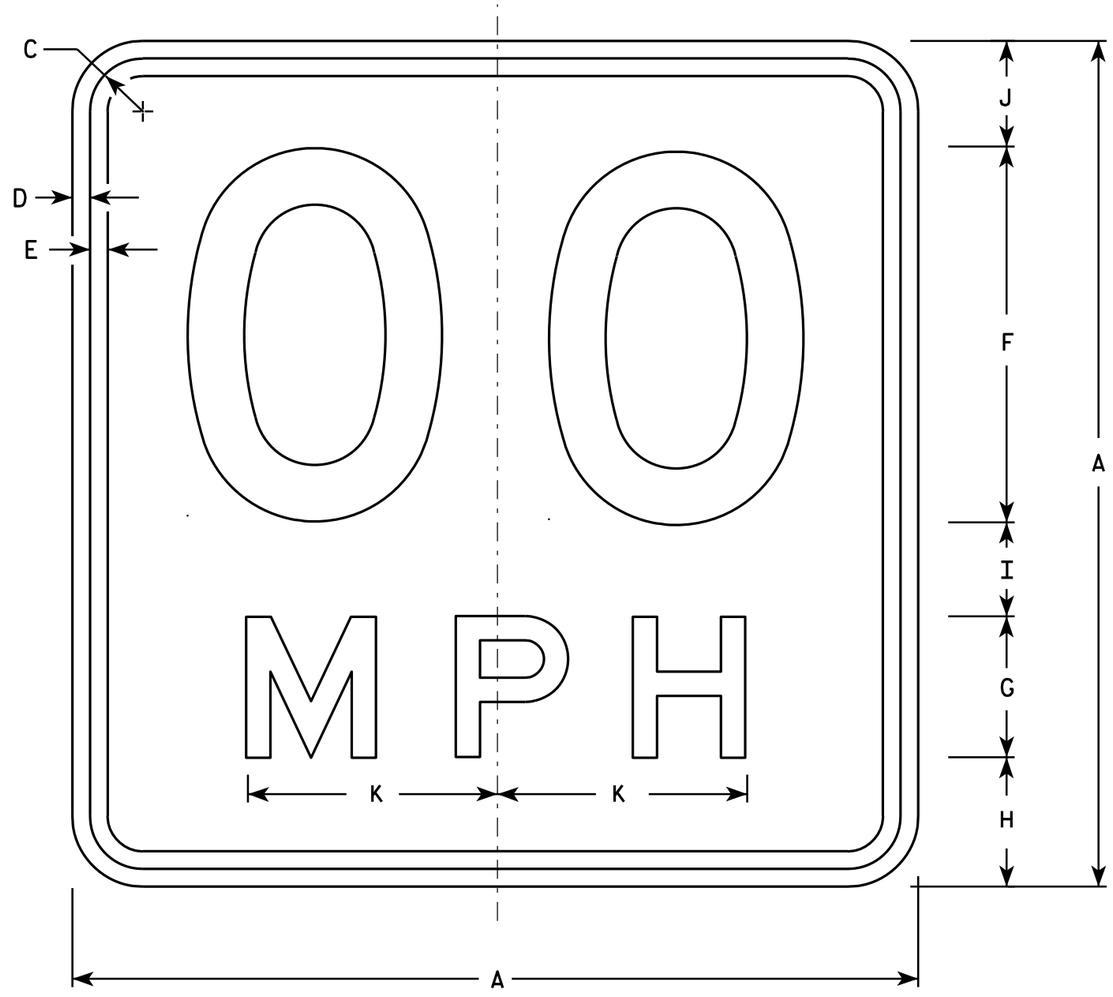
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-8.7

PROJECT NO:

SHEET NO: 240 E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

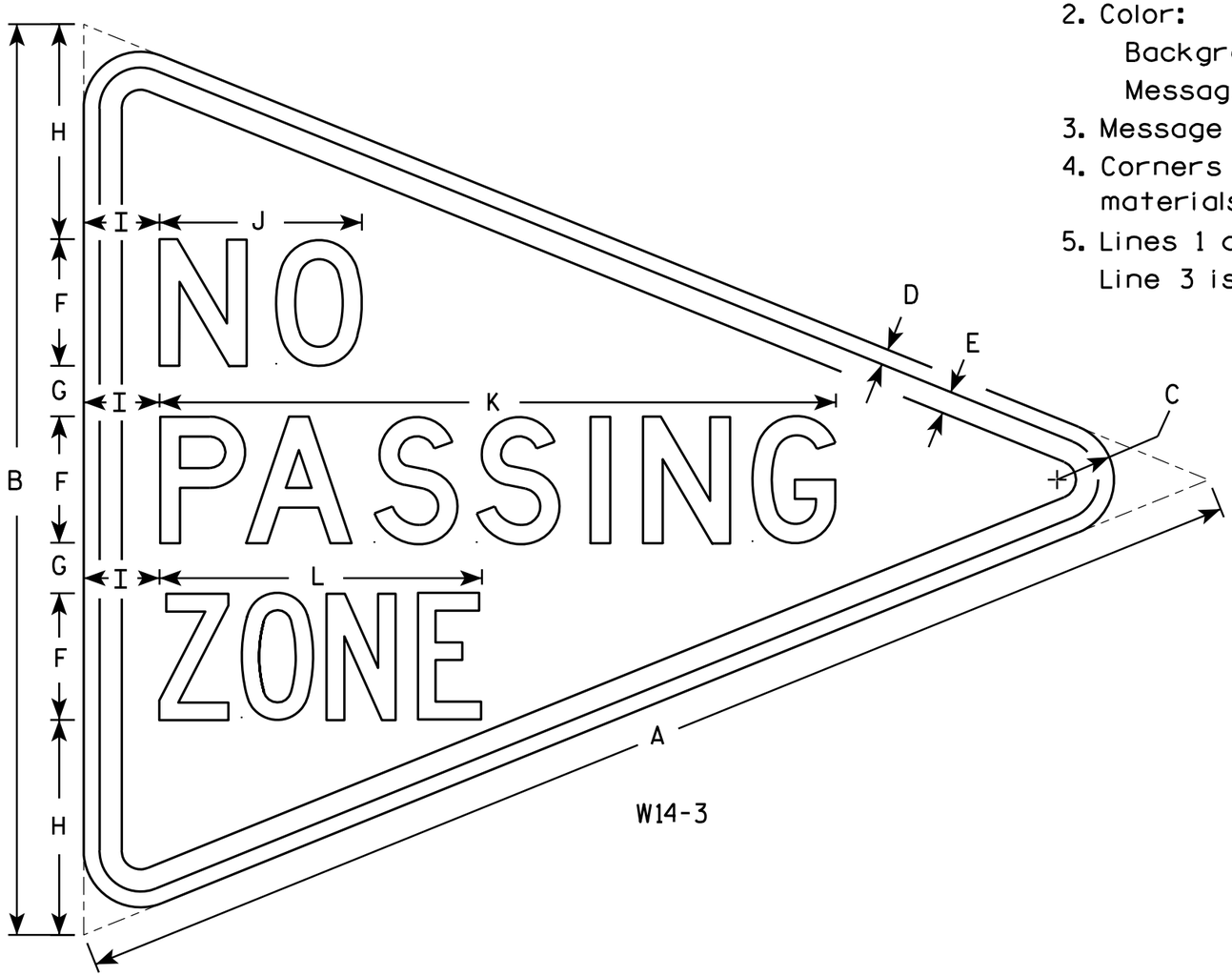
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 241 | 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. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

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	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

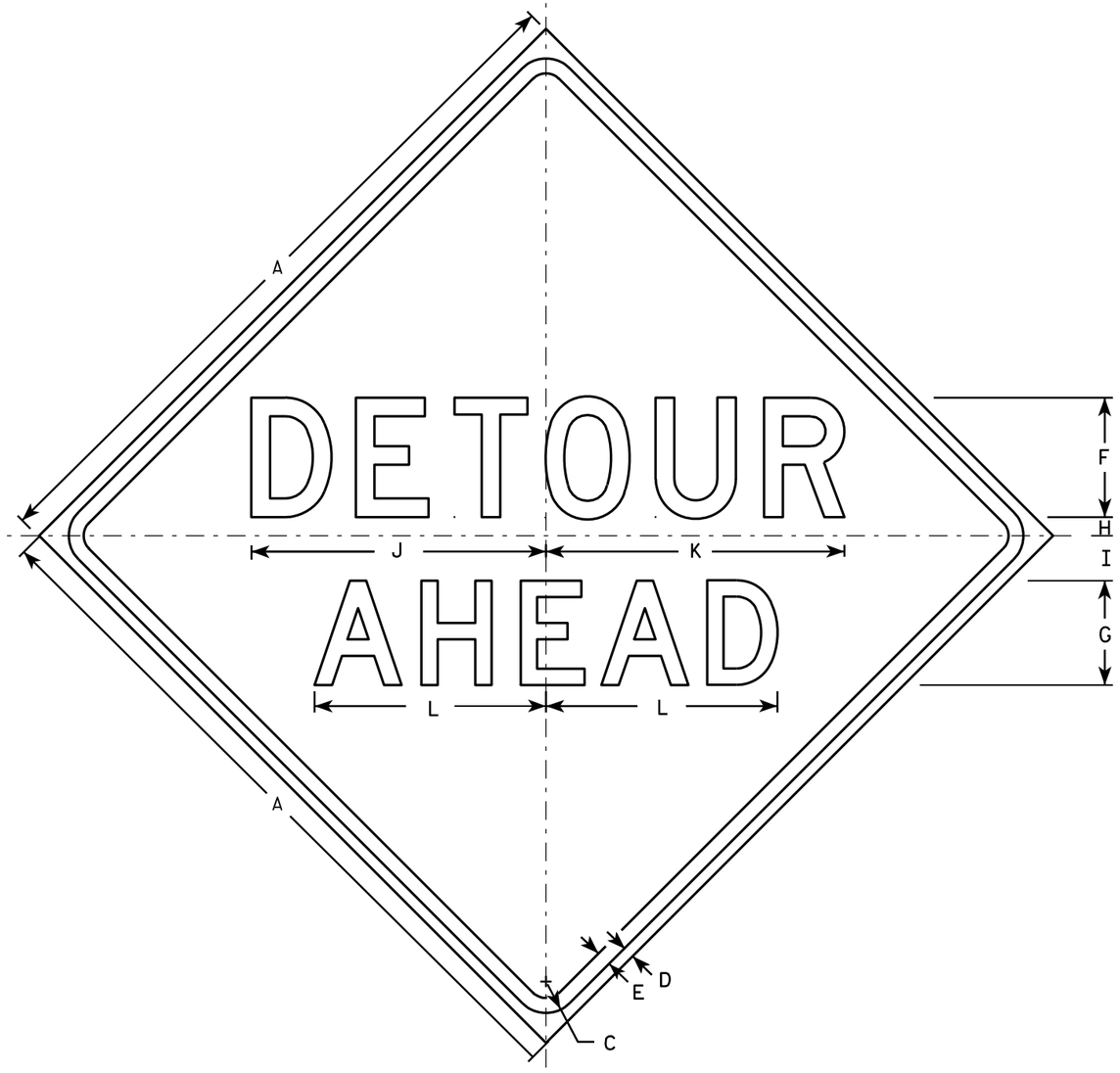
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

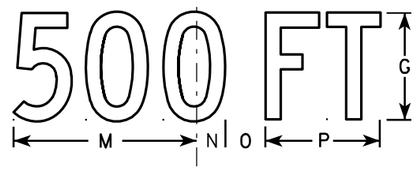
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

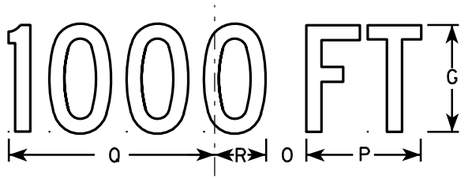
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 242	E



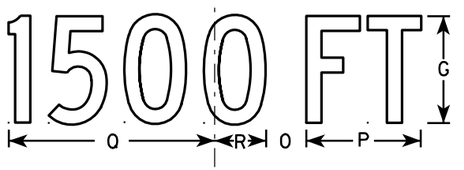
W20-2A



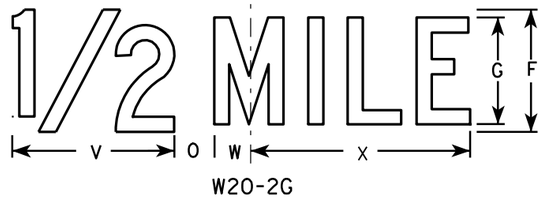
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

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 - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

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

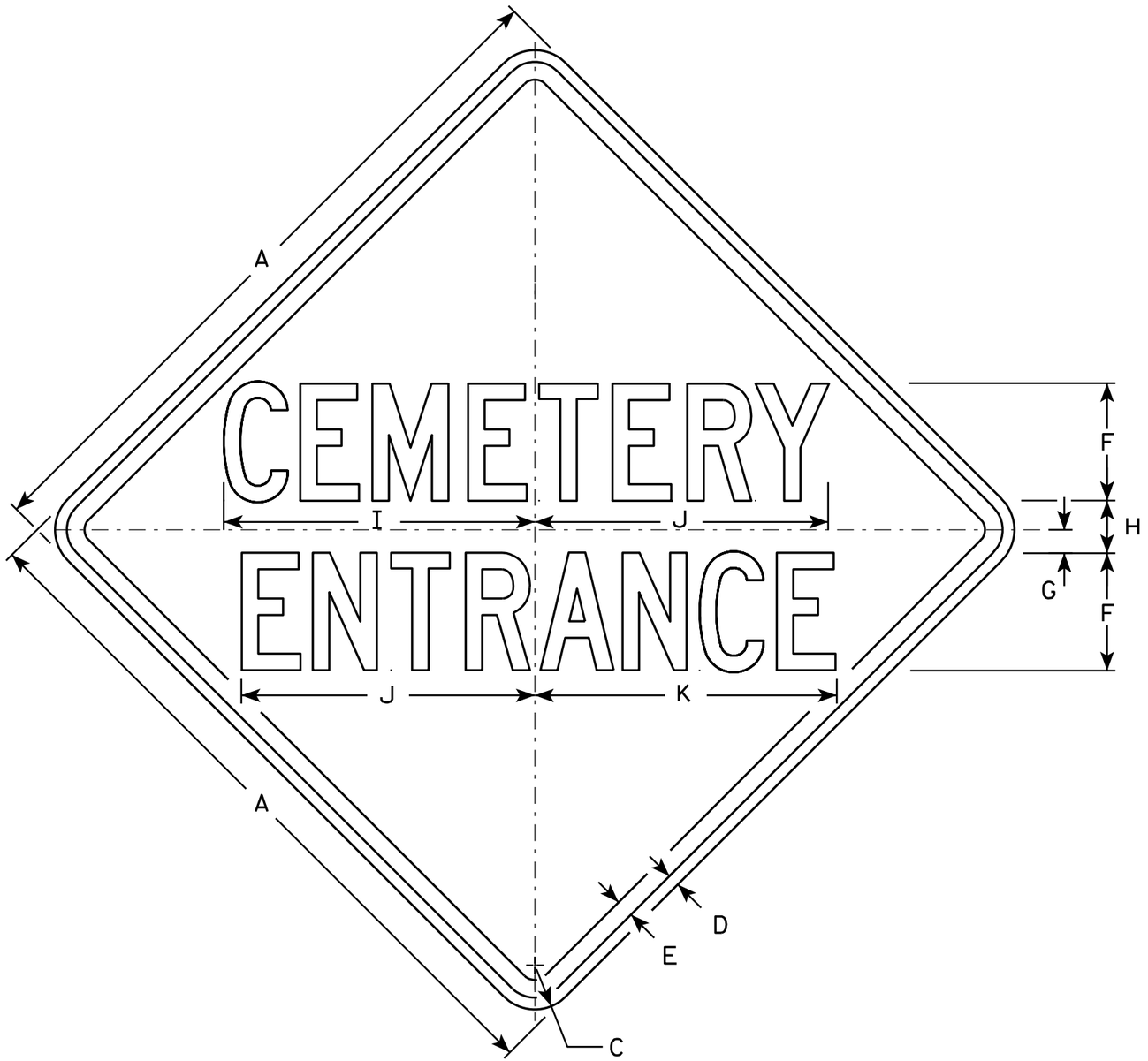
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 243 | E



W54-53

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
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	30		1 3/8	1/2	5/8	5	1	2 1/4	13 1/4	12 1/2	12 7/8																6.25
2M	36		1 5/8	5/8	3/4	6	1 1/4	2 3/4	15 7/8	15	15 3/8																9.00
3	36		1 5/8	5/8	3/4	6	1 1/4	2 3/4	15 7/8	15	15 3/8																9.00
4																											
5																											

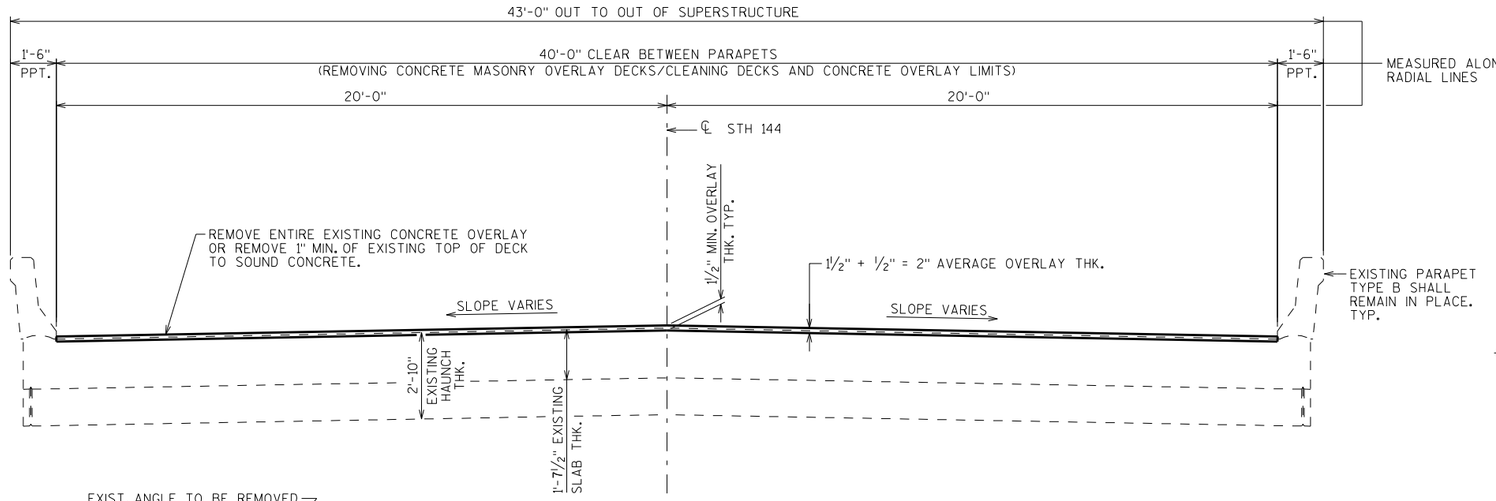
STANDARD SIGN
W54-53

WISCONSIN DEPT OF TRANSPORTATION

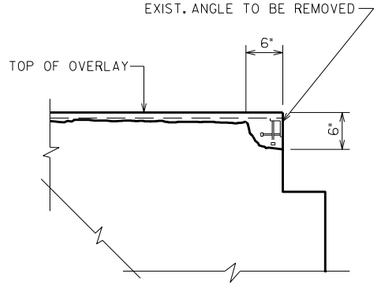
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W54-53.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 244	E



CROSS SECTION THRU ROADWAY - LOOKING EAST

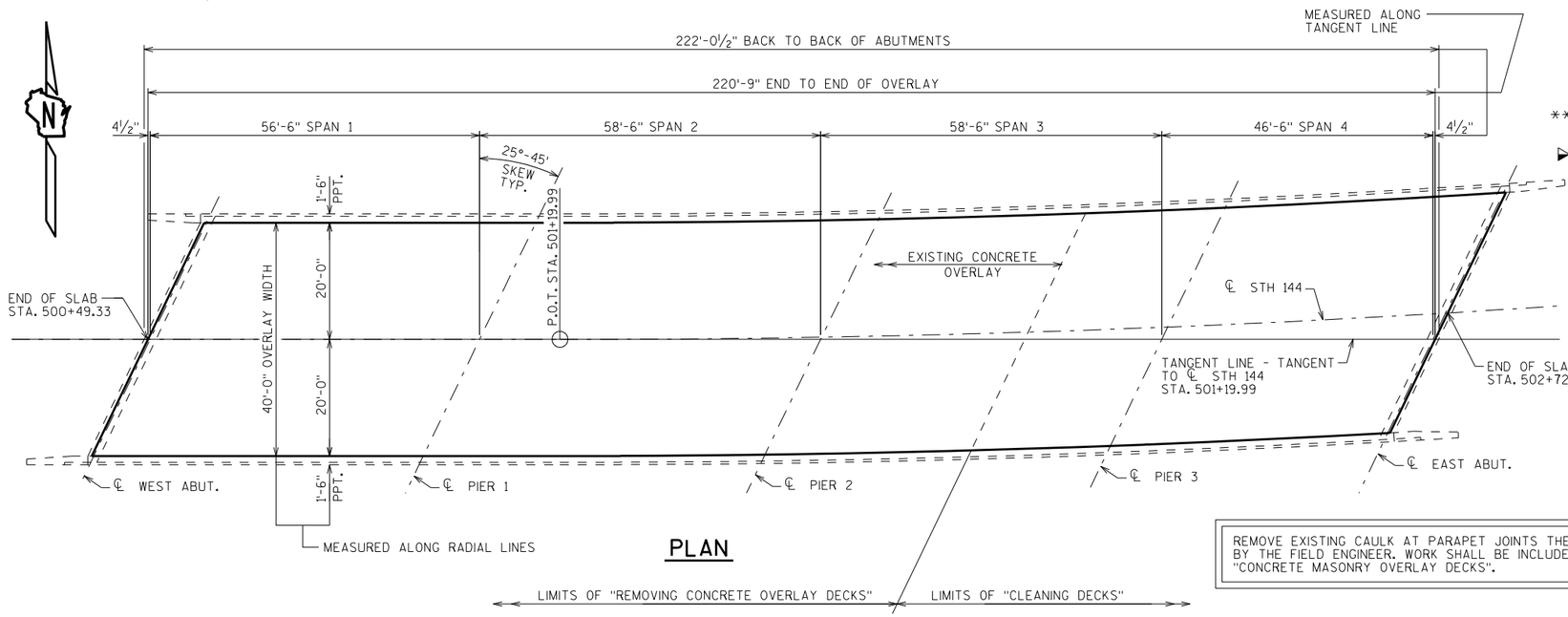


PROTECTION ANGLE REMOVAL DETAIL

TYP.

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
———	———	ALUMINUM CAP ON TOP OF SOUTHWEST PARAPET B-59-104	908.05



PLAN

REMOVE EXISTING CAULK AT PARAPET JOINTS THEN RECAULK AS DIRECTED BY THE FIELD ENGINEER. WORK SHALL BE INCLUDED UNDER THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

STATE PROJECT NUMBER

6525-06-71

DESIGN DATA

LIVE LOAD:

INVENTORY RATING; HS-21
OPERATIONAL RATING; HS-35
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 217 KIPS.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY OVERLAY DECKS —— f'c = 4,000 P.S.I.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY SHOWN ON THE PLANS BY MORE THAN ½".

** CONCRETE SURFACE REPAIRS ARE REQUIRED AND SHALL BE DONE TO A PORTION OF THE UNDERSIDE OF THE SLAB AS DIRECTED BY THE FIELD ENGINEER.

▶ BID ITEM INCLUDES CONCRETE FOR PREPARATION DECKS TYPE 1 & 2.

THE ENTIRE EXISTING OVERLAY SHALL BE REMOVED FROM THE BRIDGE DECK UNDER BID ITEM "REMOVING CONCRETE MASONRY DECK OVERLAY". (SEE PLAN VIEW FOR LIMITS)

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS". (SEE PLAN VIEW FOR LIMITS)

THE CONTRACTOR AND THE FIELD ENGINEER SHALL FIELD VERIFY AND AGREE TO SQUARE YARDAGE TOTALS FOR BOTH THE BID ITEMS "CLEANING DECKS" AND "REMOVING CONCRETE MASONRY DECK OVERLAY" QUANTITIES PRIOR TO THE WORK BEING DONE. (TOTALS GIVEN ON PLAN SHALL BE CONSIDERED APPROXIMATE)

"CONCRETE MASONRY OVERLAY DECKS" BID ITEM SHALL MEET THE REQUIREMENTS OF SECTION 509.2(4) OF THE STANDARD SPECIFICATIONS.

PREPARATION DECKS TYPE 1 & 2 AND FULL DEPTH DECK REPAIR AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

THE TOP AND ROADWAY FACES OF EXISTING PARAPETS SHALL BE CLEANED INCLUDING THE EXISTING PARAPETS ON ABUTMENT WINGS UNDER THE BID ITEM "CLEANING PARAPETS" PRIOR TO APPLICATION OF THE "PROTECTIVE SURFACE TREATMENT".

AFTER "CLEANING PARAPETS" IF ANY AREAS ARE DETERMINED TO REQUIRE CONCRETE SURFACE REPAIR, THOSE AREAS SHALL BE REPAIRED (REPAIRS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS") AND SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER PRIOR TO APPLICATION OF "PROTECTIVE SURFACE TREATMENT".

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE, TOP AND ROADWAY FACE OF THE EXISTING PARAPETS INCLUDING EXISTING PARAPETS ON THE ABUTMENT WINGS.

TOTAL ESTIMATED QUANTITIES

502.3200	PROTECTIVE SURFACE TREATMENT	1,190	SY
509.0301	PREPARATION DECKS TYPE 1	110	SY
509.0302	PREPARATION DECKS TYPE 2	77	SY
509.0500	CLEANING DECKS	320	SY
** 509.1500	CONCRETE SURFACE REPAIR	150	SF
509.2000	FULL-DEPTH DECK REPAIR	1	SY
▶ 509.2500	CONCRETE MASONRY OVERLAY DECKS	60	CY
509.9005.S	REMOVING CONCRETE MASONRY DECK OVERLAY B-59-104	672	SY
509.9050.S	CLEANING PARAPETS	489	LF

STRUCTURES DESIGN CONTACTS:
DAVID R. GENSON (608) 266-8491
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 10/9/14
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-59-104

STH 144 OVER ALLEN ROAD

COUNTY SHEBOYGAN — ~~TOWN/CITY~~ VILLAGE RANDOM LAKE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
DRG	———	DDS	JPH

GENERAL PLAN

SHEET 1 OF 1

245

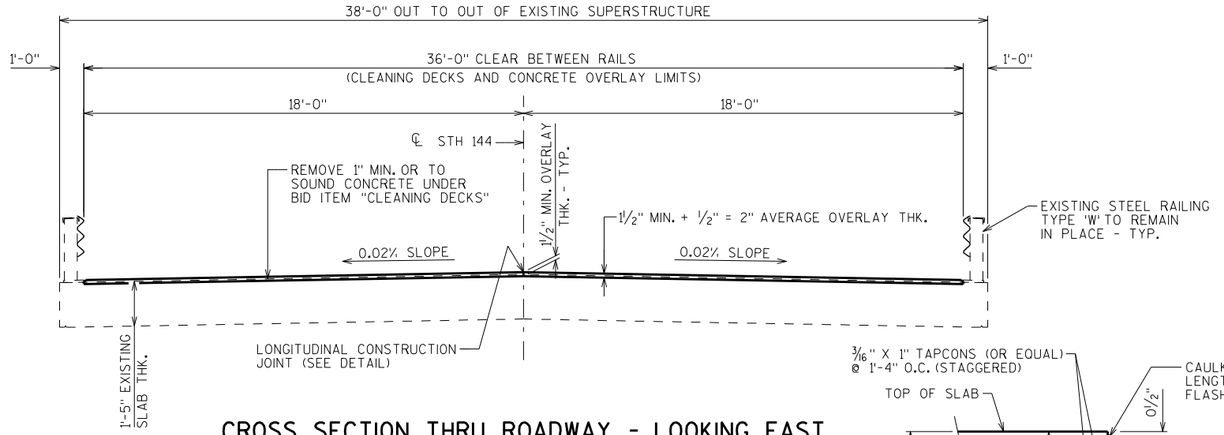
I.D. 6525-06-00

DATE: MARCH 2014

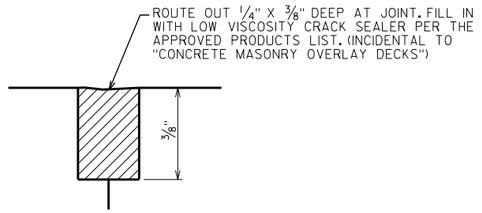
SCALE = 12

8

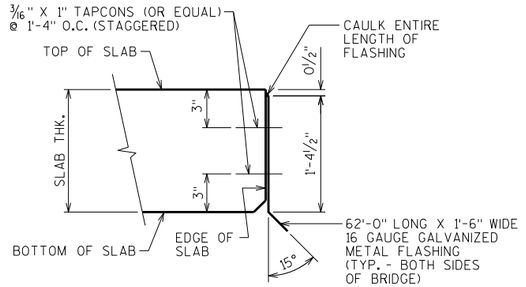
8



CROSS SECTION THRU ROADWAY - LOOKING EAST

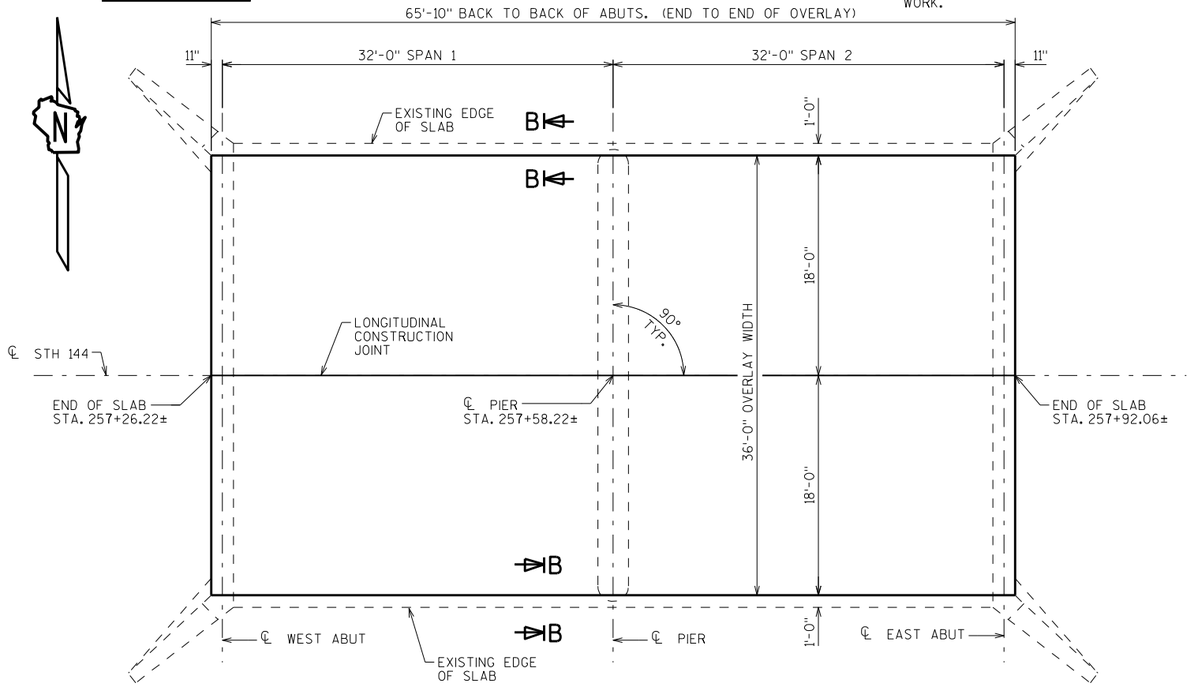


LONGITUDINAL CONSTRUCTION JOINT DETAIL



FLASHING DETAIL

THE BID ITEM "16 GAUGE GALVANIZED METAL FLASHING" SHALL INCLUDE THE METAL FLASHING, CAULK, TAPCONS (OR EQUAL) AND CLEANING THE EDGE OF DECK PRIOR TO ATTACHMENT OF THE FLASHING; AS WELL AS THE ATTACHMENT OF THE FLASHING TO THE SIDE OF DECK. THE BID ITEM ALSO INCLUDES FURNISHING ALL LABOR, TOOLS, EQUIPMENT, MATERIALS AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.



PLAN

DESIGN DATA

LIVE LOAD:

DESIGN RATING; HS-20
INVENTORY RATING; HS-23
OPERATIONAL RATING; HS-39
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 220 KIPS.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY OVERLAY DECKS —— f'c = 4,000 P.S.I.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY SHOWN ON THE PLANS BY MORE THAN ½".

** CONCRETE SURFACE REPAIRS ARE REQUIRED AND SHALL BE DONE TO THE OUTER EDGES OF THE BOTTOM OF THE SLAB (SEE SECTION B-B) AS WELL AS A PORTION OF THE UNDERSIDE OF THE SLAB AND THE ABUTMENTS AS DIRECTED BY THE FIELD ENGINEER.

▶ BID ITEM INCLUDES CONCRETE FOR PREPARATION DECKS TYPE 1 & 2 AND FULL DEPTH DECK REPAIR.

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"CONCRETE MASONRY OVERLAY DECKS" BID ITEM SHALL MEET THE REQUIREMENTS OF SECTION 509.2(4) OF THE STANDARD SPECIFICATIONS.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF SLAB, THE OUTSIDE EDGES OF SLAB AND 1'-0" MIN. OF THE UNDERSIDES OF SLAB (SEE SECTION B-B).

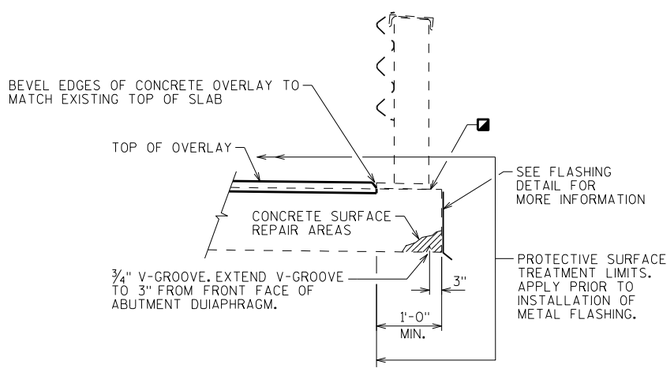
PREPARATION DECKS TYPE 1 & 2 AND FULL DEPTH DECK REPAIR AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
——	——	ALUMINUM CAP ON TOP OF SOUTHWEST WINGWALL B-59-143	810.25

TOTAL ESTIMATED QUANTITIES

502.3200	PROTECTIVE SURFACE TREATMENT	313	SY
509.0301	PREPARATION DECKS TYPE 1	12	SY
509.0302	PREPARATION DECKS TYPE 2	9	SY
509.0500	CLEANING DECKS	264	SY
** 509.1500	CONCRETE SURFACE REPAIR	300	SF
▶ 509.2500	CONCRETE MASONRY OVERLAY DECKS	19	CY
509.2000	FULL DEPTH DECK REPAIR	7	SY
SPV.0090	16 GAUGE GALVANIZED METAL FLASHING	124	LF



SECTION B-B

■ RE-CAULK ALL FOUR SIDES OF THE EXISTING RAIL POST BASE PLATES AFTER THE EXISTING EXPOSED CAULK IS REMOVED AND AFTER THE NEW CONCRETE OVERLAY IS IN PLACE. WORK SHALL BE INCLUDED UNDER BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

STATE PROJECT NUMBER

6525-06-71

STRUCTURES DESIGN CONTACTS:
DAVID R. GENSON (608) 266-8491
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher — CHIEF STRUCTURES DESIGN ENGINEER — 10/9/14 DATE

STRUCTURE B-59-143

STH 144 OVER NORTH BRANCH OF MILWAUKEE RIVER

COUNTY	TOWN/~~CITY/VILLAGE~~
SHEBOYGAN	SCOTT

DESIGN SPEC.			
REHABILITATION	N/A		
DESIGNED BY DRG	DESIGN CK'D. ——	DRAWN BY DDS	PLANS CK'D. JPH

CONCRETE OVERLAY

SHEET 1 OF 1

246

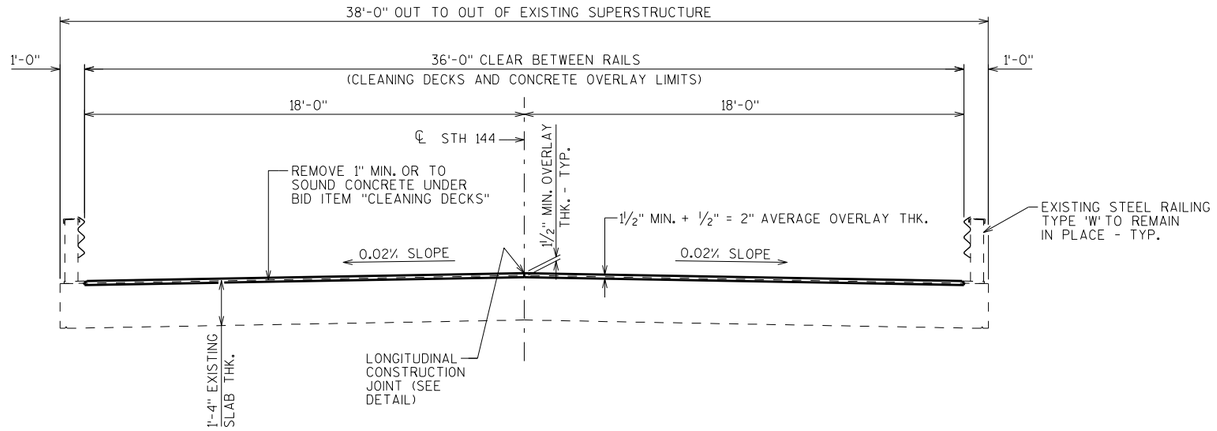
SCALE = 6

I.D. 6525-06-00B

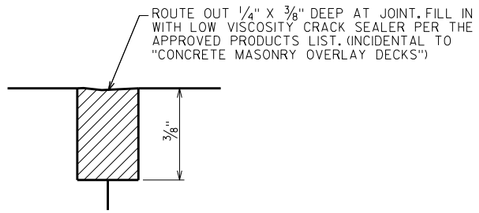
DATE: FEB. 2014

8

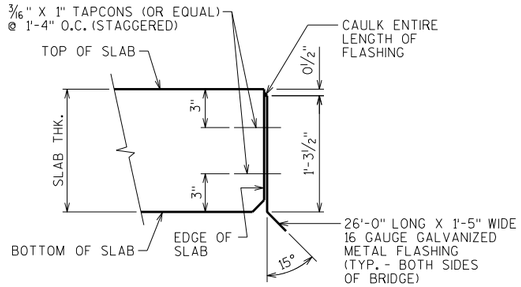
8



CROSS SECTION THRU ROADWAY - LOOKING EAST

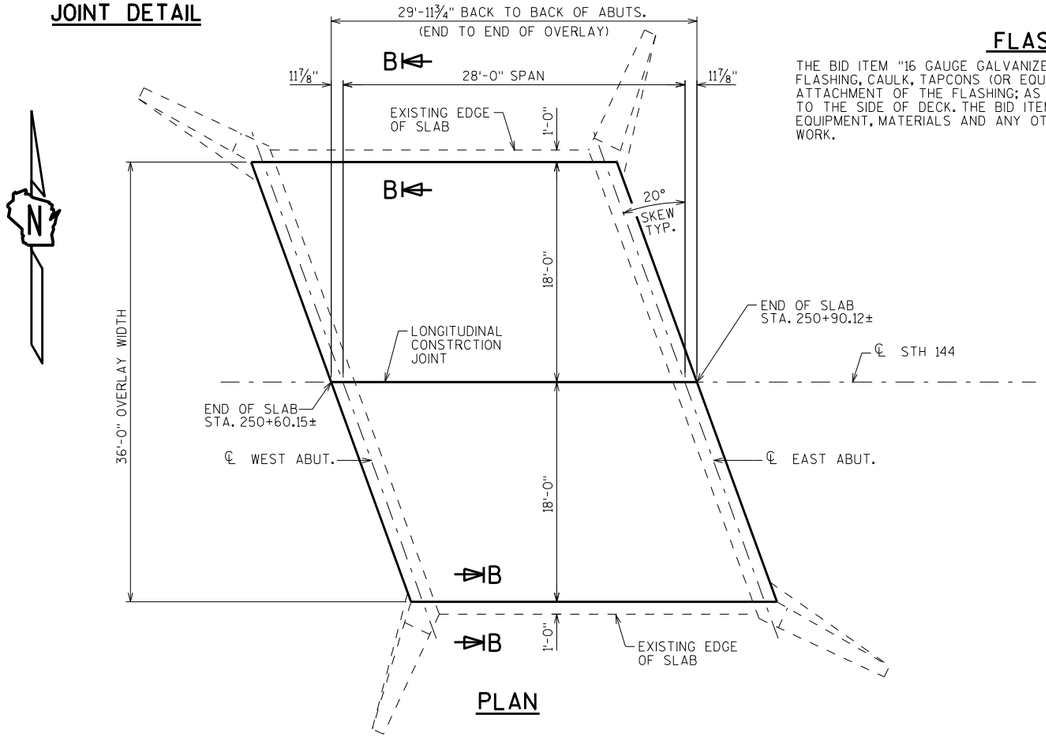


LONGITUDINAL CONSTRUCTION JOINT DETAIL

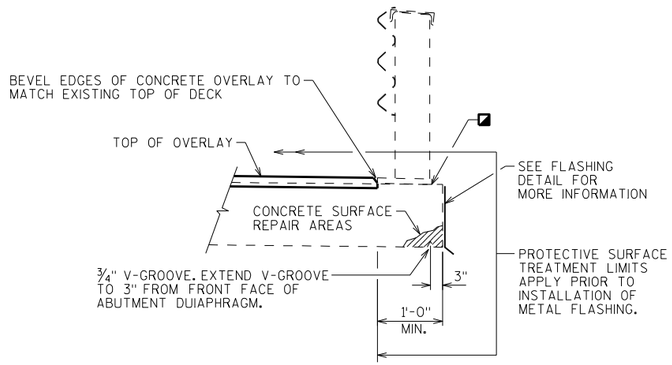


FLASHING DETAIL

THE BID ITEM "16 GAUGE GALVANIZED METAL FLASHING" SHALL INCLUDE THE METAL FLASHING, CAULK, TAPCONS (OR EQUAL) AND CLEANING THE EDGE OF DECK PRIOR TO ATTACHMENT OF THE FLASHING; AS WELL AS THE ATTACHMENT OF THE FLASHING TO THE SIDE OF DECK. THE BID ITEM ALSO INCLUDES FURNISHING ALL LABOR, TOOLS, EQUIPMENT, MATERIALS AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.



PLAN



SECTION B-B

◪ RE-CAULK ALL FOUR SIDES OF THE EXISTING RAIL POST BASE PLATES AFTER THE EXISTING EXPOSED CAULK IS REMOVED AND AFTER THE NEW CONCRETE OVERLAY IS IN PLACE. WORK SHALL BE INCLUDED UNDER BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

DESIGN DATA

LIVE LOAD:

DESIGN RATING; HS-20
INVENTORY RATING; HS-23
OPERATIONAL RATING; HS-39
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 200 KIPS.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY OVERLAY DECKS —— f'c = 4,000 P.S.I.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY SHOWN ON THE PLANS BY MORE THAN ½".

** CONCRETE SURFACE REPAIRS ARE REQUIRED AND SHALL BE DONE TO THE OUTER EDGES OF THE BOTTOM OF THE SLAB (SEE SECTION B-B) AS WELL AS A PORTION OF THE UNDERSIDE OF THE SLAB AND THE ABUTMENTS AS DIRECTED BY THE FIELD ENGINEER.

▶ BID ITEM INCLUDES CONCRETE FOR PREPARATION DECKS TYPE 1 & 2 AND FULL DEPTH DECK REPAIR.

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"CONCRETE MASONRY OVERLAY DECKS" BID ITEM SHALL MEET THE REQUIREMENTS OF SECTION 509.2(4) OF THE STANDARD SPECIFICATIONS.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF SLAB, THE OUTSIDE EDGES OF SLAB AND 1'-0" MIN. OF THE UNDERSIDES OF SLAB (SEE SECTION B-B).

PREPARATION DECKS TYPE 1 & 2 AND FULL DEPTH DECK REPAIR AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
——	——	ALUMINUM CAP ON TOP OF SOUTHWEST WINGWALL B-59-144	808.41

TOTAL ESTIMATED QUANTITIES

502.3200	PROTECTIVE SURFACE TREATMENT ——	142	SY
509.0301	PREPARATION DECKS TYPE 1 ——	10	SY
509.0302	PREPARATION DECKS TYPE 2 ——	10	SY
509.0500	CLEANING DECKS ——	120	SY
** 509.1500	CONCRETE SURFACE REPAIR ——	390	SF
▶ 509.2500	CONCRETE MASONRY OVERLAY DECKS ——	8	CY
SPV.0090	16 GAUGE GALVANIZED METAL FLASHING ——	52	LF

STATE PROJECT NUMBER

6525-06-71

STRUCTURES DESIGN CONTACTS:
DAVID R. GENSON (608) 266-8491
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher — CHIEF STRUCTURES DESIGN ENGINEER — 10/9/14 DATE

STRUCTURE B-59-144

STH 144 OVER MINK CREEK

COUNTY SHEBOYGAN | TOWN/~~CITY/VILLAGE~~ SCOTT

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
DGN	——	DDS	JPH

CONCRETE OVERLAY

SHEET 1 OF 1

247

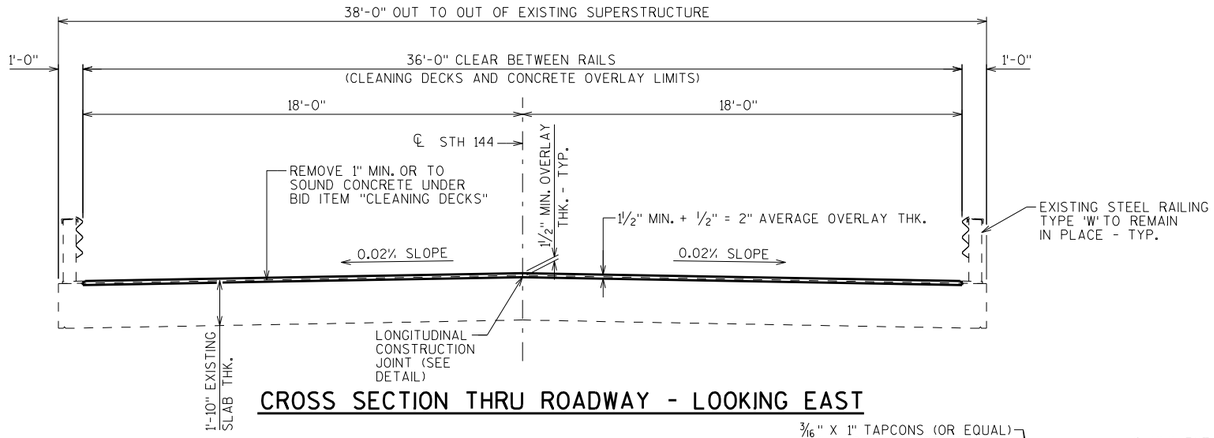
I.D. 6525-06-00C

DATE: FEB. 2014

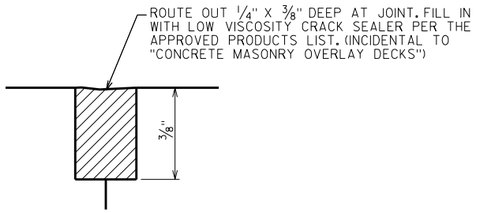
SCALE = 6

8

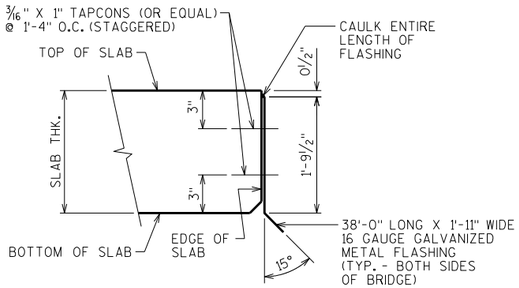
8



CROSS SECTION THRU ROADWAY - LOOKING EAST

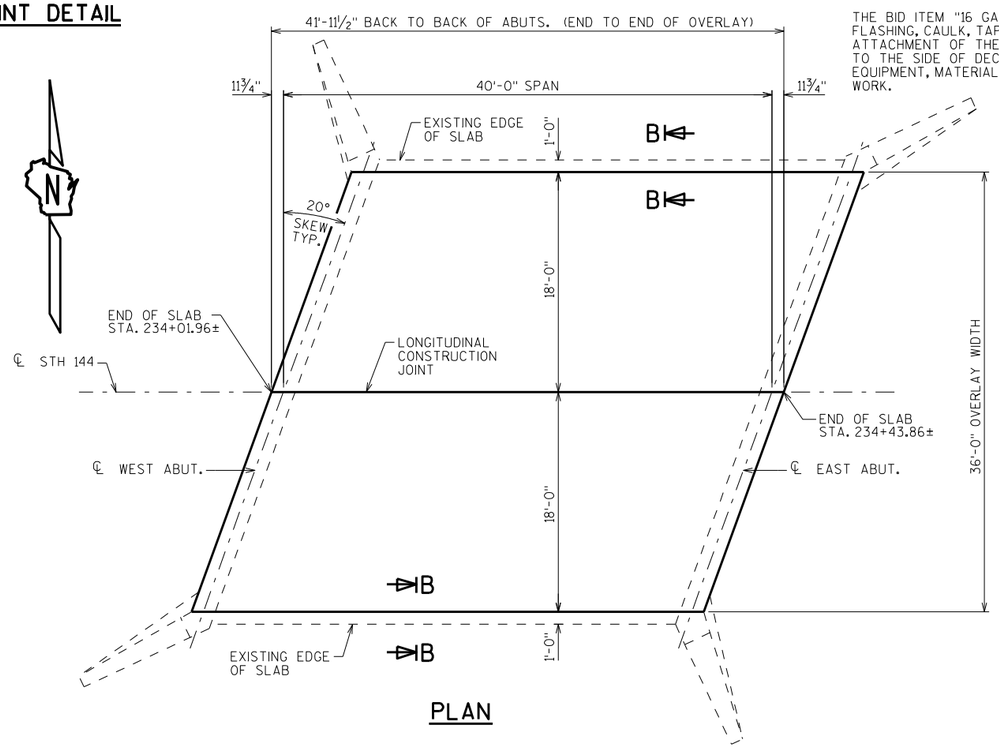


LONGITUDINAL CONSTRUCTION JOINT DETAIL

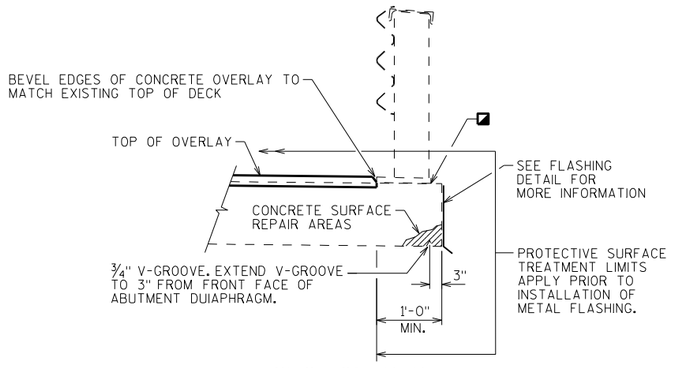


FLASHING DETAIL

THE BID ITEM "16 GAUGE GALVANIZED METAL FLASHING" SHALL INCLUDE THE METAL FLASHING, CAULK, TAPCONS (OR EQUAL) AND CLEANING THE EDGE OF DECK PRIOR TO ATTACHMENT OF THE FLASHING; AS WELL AS THE ATTACHMENT OF THE FLASHING TO THE SIDE OF DECK. THE BID ITEM ALSO INCLUDES FURNISHING ALL LABOR, TOOLS, EQUIPMENT, MATERIALS AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.



PLAN



SECTION B-B

◪ RE-CAULK ALL FOUR SIDES OF THE EXISTING RAIL POST BASE PLATES AFTER THE EXISTING EXPOSED CAULK IS REMOVED AND AFTER THE NEW CONCRETE OVERLAY IS IN PLACE. WORK SHALL BE INCLUDED UNDER BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

RECAULK BETWEEN THE EXISTING SLAB AND THE WINGWALLS AS DIRECTED BY THE FIELD ENGINEER. WORK SHALL BE INCLUDED UNDER THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

DESIGN DATA

LIVE LOAD:

DESIGN RATING; HS-20
INVENTORY RATING; HS-24
OPERATIONAL RATING; HS-40
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 230 KIPS.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY OVERLAY DECKS ——— f'c = 4,000 P.S.I.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY SHOWN ON THE PLANS BY MORE THAN ½".

** CONCRETE SURFACE REPAIRS ARE REQUIRED AND SHALL BE DONE TO THE OUTER EDGES OF THE BOTTOM OF THE SLAB (SEE SECTION B-B) AS WELL AS A PORTION OF THE UNDERSIDE OF THE SLAB AND THE ABUTMENTS AS DIRECTED BY THE FIELD ENGINEER.

▶ BID ITEM INCLUDES CONCRETE FOR PREPARATION DECKS TYPE 1 & 2 AND FULL DEPTH DECK REPAIR.

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

"CONCRETE MASONRY OVERLAY DECKS" BID ITEM SHALL MEET THE REQUIREMENTS OF SECTION 509.2(4) OF THE STANDARD SPECIFICATIONS.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF SLAB, THE OUTSIDE EDGES OF SLAB AND 1'-0" MIN. OF THE UNDERSIDES OF SLAB (SEE SECTION B-B).

PREPARATION DECKS TYPE 1 & 2 AND FULL DEPTH DECK REPAIR AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

TOTAL ESTIMATED QUANTITIES

502.3200	PROTECTIVE SURFACE TREATMENT	204	SY
509.0301	PREPARATION DECKS TYPE 1	16	SY
509.0302	PREPARATION DECKS TYPE 2	10	SY
509.0500	CLEANING DECKS	168	SY
** 509.1500	CONCRETE SURFACE REPAIR	130	SF
▶ 509.2500	CONCRETE MASONRY OVERLAY DECKS	11	CY
SPV.0090	16 GAUGE GALVANIZED METAL FLASHING	76	LF

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
——	——	ALUMINUM CAP ON TOP OF SOUTHWEST WINGWALL B-59-147	816.80

STATE PROJECT NUMBER

6525-06-71

STRUCTURES DESIGN CONTACTS:
DAVID R. GENSON (608) 266-8491
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher — CHIEF STRUCTURES DESIGN ENGINEER — 10/9/14 DATE

STRUCTURE B-59-147

STH 144 OVER MINK CREEK

COUNTY SHEBOYGAN — TOWN/~~CITY/VILLAGE~~ SCOTT

DESIGN SPEC. REHABILITATION — N/A ——

DESIGNED BY DRG — DESIGN CK'D. —— — DRAWN BY DDS — PLANS CK'D. JPH

CONCRETE OVERLAY

SHEET 1 OF 1

248

SCALE = 6

I.D. 6525-06-00A

DATE: FEB. 2014

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STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
209+67	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00
210+15	48.00	0.34	31.99	1	28	1	38	-37.22
210+33	18.00	34.00	31.99	11	21	12	66	-54.13
211+75	0.00	0.39	3.16	0	0	12	66	-54.13
211+90	15.00	0.39	3.16	0	2	12	69	-56.25
212+00	10.00	0.00	2.95	0	1	12	70	-57.68
212+50	0.00	0.00	0.00	0	0	12	70	-57.68
				12	53			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
231+10	0.00	3.38	2.02	0	0	0	0	0.00
231+50	40.00	3.34	4.64	5	5	5	7	-1.58
232+00	50.00	6.60	10.80	9	14	14	26	-11.38
232+50	50.00	8.11	31.73	14	39	28	78	-50.13
233+00	50.00	7.47	35.94	14	63	42	161	-119.04
233+50	50.00	9.71	25.65	16	57	58	237	-178.97
234+01	51.00	9.71	25.65	18	48	76	302	-225.07
234+41	0.00	11.47	1.11	0	0	76	302	-225.07
234+50	9.00	11.47	1.11	4	0	80	302	-221.73
235+00	50.00	29.14	2.60	38	3	118	307	-188.69
235+50	50.00	30.05	0.00	55	2	173	310	-137.10
236+00	50.00	51.36	0.13	75	0	248	310	-61.88
236+50	50.00	51.36	0.25	95	0	343	310	32.76
236+97.83	47.83	19.42	0.69	63	1	406	312	94.35
236+97.83	0.00	29.39	0.00	0	0	406	312	94.35
237+00	2.17	29.39	0.00	2	0	408	312	96.71
237+50	50.00	49.29	0.00	73	0	481	312	169.57
238+00	50.00	18.60	1.47	63	1	544	313	230.62
238+50	50.00	0.00	0.00	17	1	561	315	246.02
239+00	50.00	0.00	0.00	0	0	561	315	246.02
239+05	5.00	0.00	0.00	0	0	561	315	246.02
				561	237			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
248+32	0.00	3.17	0.00	0	0	0	0	0.00
248+50	18.00	3.17	0.13	2	0	2	0	2.06
249+00	50.00	4.90	10.58	7	10	10	13	-3.66
249+15	15.00	5.58	9.58	3	6	12	21	-8.20
249+22	7.00	19.60	0.00	3	1	16	22	-6.59
249+38	16.00	19.60	2.15	12	1	27	23	4.18
249+40	2.00	16.22	2.22	1	0	29	23	5.29
249+50	10.00	19.97	12.94	7	3	35	27	8.26
249+63	13.00	11.26	14.81	8	7	43	36	6.89
249+76	13.00	9.23	5.88	5	5	48	43	5.20
249+88	12.00	5.86	1.15	3	2	51	45	6.48
250+00	12.00	6.25	0.54	3	0	54	45	8.67
250+01	1.00	6.29	0.55	0	0	54	45	8.87
250+10.34	9.34	6.29	0.55	2	0	56	46	10.80
251+49	0.00	0.78	6.57	0	0	56	46	10.80
251+85	36.00	0.78	6.57	1	6	57	54	3.75
251+85	0.00	2.27	17.11	0	0	57	54	3.75
251+99	14.00	2.08	27.54	1	12	58	69	-10.52
252+10	11.00	2.05	35.31	1	13	59	86	-26.71
252+35	25.00	1.85	38.25	2	34	61	131	-70.20
252+50	15.00	1.85	34.36	1	20	62	158	-96.00
253+00	50.00	2.03	33.55	4	63	66	242	-176.04
253+50	50.00	1.35	6.94	3	37	69	292	-222.76
254+00	50.00	0.00	0.00	1	6	70	300	-230.06
254+55.87	0.00	1.14	12.90	0	0	70	300	-230.06
255+00	44.13	0.86	25.32	2	31	72	342	-269.96
255+04	4.00	0.86	25.32	0	4	72	347	-274.83
255+04	0.00	2.40	70.16	0	0	72	347	-274.83
255+50	46.00	2.40	70.16	4	120	76	506	-429.72
255+74	24.00	2.72	76.30	2	65	78	592	-514.02
255+99	25.00	2.81	76.71	3	71	81	686	-605.67
256+24	25.00	2.39	70.45	2	68	83	777	-693.88
256+24	0.00	0.00	0.00	0	0	83	777	-693.88
256+49	25.00	1.97	22.31	1	10	84	791	-706.71
256+74.68	25.68	3.22	6.93	2	14	87	809	-722.72
257+00	25.32	0.00	0.00	2	3	88	814	-725.53
258+00	0.00	0.00	0.00	0	0	88	814	-725.53
258+50	50.00	2.20	3.26	2	3	90	818	-727.51
258+66	16.00	0.80	12.43	1	5	91	824	-732.81
258+91	25.00	0.80	12.43	1	12	92	839	-747.37
258+91	0.00	2.85	49.18	0	0	92	839	-747.37
258+94	3.00	2.76	48.95	0	5	92	846	-754.31
259+00	6.00	2.38	46.30	1	11	93	860	-767.82
259+05.01	5.01	2.18	47.29	0	9	93	872	-778.95
259+19	13.99	2.95	51.38	1	26	94	906	-811.61
259+44	25.00	6.28	61.25	4	52	99	975	-876.69
259+50	6.00	5.99	61.21	1	14	100	993	-893.42
260+00	50.00	3.82	45.18	9	99	109	1,124	-1,015.36
260+50	50.00	0.04	16.26	4	57	113	1,200	-1,087.44
260+75	25.00	0.00	0.00	0	0	113	1,200	-1,087.42
				113	902			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
279+75	0.00	0.00	0.00	0	0	0	0	0.00
280+00.02	25.02	6.33	6.46	3	3	3	4	-1.05
280+50	49.98	19.92	9.88	24	15	27	24	3.14
281+00	50.00	23.08	8.89	40	17	67	47	19.84
281+50	50.00	29.30	30.66	48	37	116	96	19.63
282+00	50.00	8.56	2.95	35	31	151	137	13.29
282+24.89	24.89	4.66	0.62	6	2	157	139	17.19
282+50	25.11	0.00	0.00	2	0	159	140	18.97
				159	105			

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged / Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged / Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
298+70	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00
298+90	20.00	6.49	0.00	0.66	2	0	0	2	0	2.08
299+00	10.00	4.37	0.00	34.61	2	0	7	4	9	-4.60
299+50	50.00	2.90	0.00	2.91	7	0	35	11	55	-44.07
300+00	50.00	2.08	0.00	8.32	5	0	10	16	69	-53.28
300+20.09	20.09	1.66	0.00	0.78	1	0	3	17	74	-56.39
300+50	29.91	23.36	0.00	25.87	14	0	15	31	93	-62.16
300+74.11	24.11	26.15	0.00	34.30	22	0	27	53	129	-75.79
300+98.97	24.86	4.80	0.00	29.27	14	0	29	67	168	-100.46
301+00.05	1.08	4.80	0.00	22.48	0	0	1	68	169	-101.65
301+23.89	23.84	1.57	0.00	2.38	3	0	11	70	184	-113.43
301+48.87	24.98	2.00	0.00	34.79	2	0	17	72	207	-134.65
301+60	11.13	0.00	0.00	0.00	0	0	7	72	216	-143.77
					72		163			

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STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
304+25	0.00	0.00	0.00	0.00	0	0	0		0	-143.77
304+50	25.00	13.41	2.25	1.50	6	1	1	6	1	-139.53
304+71.1	21.10	13.77	2.25	2.16	11	2	1	17	3	-132.57
305+00	28.90	14.68	2.25	1.42	15	2	2	32	5	-122.29
305+50	50.00	15.10	2.25	2.42	28	4	4	60	10	-103.61
305+84.82	34.82	15.45	2.25	1.25	20	3	2	79	13	-89.96
306+00	15.18	15.48	2.25	7.54	9	1	2	88	17	-85.81
306+50	50.00	16.94	2.25	19.09	30	4	25	118	49	-92.75
306+55.14	5.14	16.97	2.25	12.52	3	0	3	121	53	-93.95
306+60	4.86	16.97	2.25	12.52	3	0	2	124	56	-94.30
306+60	0.00	43.29	4.50	5.12	0	0	0	124	56	-94.30
307+00	40.00	43.29	4.50	5.12	64	7	8	188	66	-46.93
307+50	50.00	37.66	4.50	1.66	75	8	6	263	75	11.34
307+89.98	39.98	32.51	4.50	3.82	52	7	4	315	80	51.23
308+00	10.02	31.50	4.50	4.49	12	2	2	327	82	59.39
308+14	14.00	28.06	4.50	5.25	15	2	3	806	86	69.14
					343	44	64			

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
308+14	0.00	28.06	4.50	5.25	0	0	0	0	0	0.00
308+50	36.00	27.27	4.50	2.63	37	6	5	37	7	23.90
308+87.41	37.41	28.02	4.50	1.78	38	6	3	75	11	51.90
309+00	12.59	29.31	4.50	1.59	13	2	1	89	12	62.12
309+50	50.00	62.35	4.50	0.34	85	8	2	173	14	136.29
310+00	50.00	70.90	4.50	0.63	123	8	1	297	16	250.15
310+50	50.00	55.89	4.50	0.28	117	8	1	414	17	358.10
310+83.48	33.48	33.85	4.50	0.64	56	6	1	470	18	407.40
311+00	16.52	39.31	4.50	0.59	22	3	0	492	18	426.53
311+50	50.00	67.37	4.50	0.43	99	8	1	591	19	515.72
311+90.36	40.36	64.54	4.50	0.07	99	7	0	690	20	607.08
312+00	9.64	64.90	4.50	0.00	23	2	0	713	20	628.56
312+50	50.00	77.60	4.50	0.00	132	8	0	845	20	752.17
312+69.7	19.70	69.54	4.50	0.00	54	3	0	898	20	802.58
313+00	30.30	60.77	4.50	0.00	73	5	0	971	20	870.64
313+41.57	41.57	44.04	4.50	0.01	81	7	0	1,052	20	944.39
313+50	8.43	48.85	4.50	1.68	15	1	0	1,067	20	957.13
313+56.31	6.31	43.77	4.50	0.38	11	1	0	1,077	20	966.58
314+00	43.69	29.72	4.50	0.47	59	7	1	1,137	21	1,017.85
314+37.49	37.49	29.14	4.50	1.10	41	6	1	1,178	23	1,051.02
314+50	12.51	29.00	4.50	1.30	13	2	1	1,191	24	1,061.66
314+73.07	23.07	27.97	4.50	5.38	24	4	3	1,216	27	1,078.36
315+00	26.93	28.18	4.50	5.16	28	4	5	1,244	34	1,094.89
315+49	49.00	27.86	2.25	5.15	51	6	9	1,294	47	1,127.17

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STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Cut	Salvaged/Unusable Pavement Material Note 2	Fill	Cut 1.00	Expanded Fill 1.33	
315+49	0.00	27.86	2.25	4.10	0	0	0	1,294	47	1,127.17
315+50	1.00	27.86	2.25	4.10	1	0	0	1,295	47	1,127.91
316+00	50.00	25.53	2.25	29.74	49	4	31	1,345	89	1,131.51
316+07.03	7.03	26.70	2.25	43.01	7	1	9	1,352	101	1,125.13
316+50	42.97	24.75	2.25	0.60	41	4	35	1,393	147	1,116.33
316+68.14	18.14	14.70	2.25	1.58	13	2	1	1,406	148	1,127.10
317+00	31.86	19.11	2.25	8.89	20	3	6	1,426	157	1,136.17
317+50	50.00	25.46	2.25	5.23	41	4	13	1,467	174	1,155.89
318+00	50.00	26.88	4.50	3.80	48	6	8	1,516	185	1,186.99
318+50	50.00	27.07	4.50	2.16	50	8	6	1,566	193	1,221.27
319+00	50.00	29.32	4.50	2.87	52	8	5	1,618	199	1,258.96
319+50	50.00	32.67	4.50	0.90	57	8	3	1,675	203	1,303.39
319+68.35	18.35	38.07	4.50	2.18	24	3	1	1,699	205	1,322.98
320+00	31.65	32.87	4.50	2.25	42	5	3	1,741	208	1,355.83
320+50	50.00	35.82	4.50	4.67	64	8	6	1,804	217	1,402.58
320+55.73	5.73	35.46	4.50	4.85	8	1	1	1,812	218	1,407.85
321+00	44.27	33.14	4.50	7.89	56	7	10	1,868	232	1,442.82
321+15.26	15.26	30.69	4.50	9.58	18	3	5	1,886	239	1,451.75
321+50	34.74	48.28	4.50	7.11	51	6	11	1,937	253	1,482.49
322+00	50.00	38.02	4.50	3.64	80	8	10	2,017	266	1,540.82
322+35	35.00	37.10	4.50	2.29	49	6	4	2,066	271	1,578.56
322+50	15.00	31.56	4.50	2.58	19	2	1	2,085	273	1,593.34
322+57.63	7.63	31.27	4.50	2.79	9	1	1	2,094	274	1,599.94
323+00	42.37	28.77	4.50	4.51	47	7	6	2,141	282	1,632.37
323+32.84	32.84	27.98	4.50	2.01	35	5	4	2,175	287	1,656.14
323+50	17.16	27.56	4.50	3.19	18	3	2	2,193	289	1,668.73
323+73.37	23.37	28.30	4.50	3.15	24	4	3	2,217	293	1,685.37
324+00	26.63	28.78	4.50	2.31	28	4	3	2,245	296	1,705.49
					2,245	243	223			

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged / Unusable Pavement Material	Fill	Cut	Salvaged / Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.33	
324+00	0.00	28.78	4.50	2.31	0	0	0	0	0	0.00
324+50	50.00	39.35	4.50	1.25	63	8	3	63	4	50.37
324+64.32	14.32	41.93	4.50	0.37	22	2	0	85	5	68.97
325+00	35.68	29.86	4.50	0.37	47	6	0	132	6	109.81
325+50	50.00	34.89	4.50	0.08	60	8	0	192	6	160.88
325+78.2	28.20	31.99	4.50	0.10	35	5	0	227	6	190.98
326+00	21.80	32.54	4.50	0.20	26	4	0	253	6	213.25
326+50	50.00	37.15	4.50	1.09	65	8	1	318	8	267.87
326+70.51	20.51	35.70	4.50	2.96	28	3	2	345	10	290.08
327+00	29.49	40.09	4.50	0.36	41	5	2	387	12	324.15
327+37.39	37.39	32.99	4.50	0.97	51	6	1	437	14	367.30
327+50	12.61	32.39	4.50	0.50	15	2	0	452	14	380.01
328+00	50.00	32.07	4.50	0.00	60	8	0	512	15	430.75
328+50	50.00	31.09	4.50	0.60	58	8	1	571	16	480.15
328+50.83	0.83	31.18	4.50	0.62	1	0	0	572	16	480.95
328+65.45	14.62	31.33	4.50	0.27	17	2	0	589	16	495.12
328+85.29	19.84	28.28	4.50	3.81	22	3	1	610	18	511.72
329+00	14.71	30.97	4.50	3.90	16	2	2	627	21	522.62
329+50	50.00	33.89	4.50	0.01	60	8	4	687	25	569.53
330+00	50.00	27.74	4.50	3.85	57	8	4	744	30	613.51
330+29.69	29.69	35.07	4.50	1.23	35	5	3	778	34	639.39
330+50	20.31	35.68	4.50	3.62	27	3	2	805	36	660.19
331+00	50.00	36.44	4.50	0.52	67	8	4	872	41	713.53
331+29.8	29.80	31.69	4.50	1.22	38	5	1	909	43	744.89
331+50	20.20	35.38	4.50	0.27	25	3	1	934	43	765.86
332+00	50.00	32.51	4.50	0.43	63	8	1	997	44	819.53
332+27.66	27.66	33.12	4.50	0.69	34	5	1	1,031	45	847.78
332+50	22.34	28.43	4.50	1.86	25	4	1	1,056	47	868.12
332+74.12	24.12	26.95	4.50	2.61	25	4	2	1,081	49	886.18
333+00	25.88	28.33	4.50	1.66	26	4	2	1,107	52	905.64
333+22.07	22.07	28.82	4.50	2.46	23	4	2	1,131	54	923.07
333+50	27.93	32.04	4.50	2.02	31	5	2	1,162	57	946.82
334+00	50.00	34.88	4.50	0.00	62	8	2	1,224	60	997.97
334+22.17	22.17	30.03	4.50	0.62	27	4	0	1,251	60	1,020.58
334+50	27.83	366.31	4.50	0.26	204	5	0	1,455	61	1,219.63
334+57.73	7.73	31.08	4.50	0.41	57	1	0	1,512	61	1,275.08
335+00	42.27	29.92	4.50	1.44	48	7	1	1,560	63	1,313.86
335+19.64	19.64	29.56	4.50	1.61	22	3	1	1,581	64	1,330.75
335+50	30.36	30.88	4.50	1.05	34	5	1	1,615	66	1,357.69
336+00	50.00	28.78	4.50	1.28	55	8	2	1,671	69	1,401.74
336+50	50.00	31.30	4.50	1.02	56	8	2	1,726	72	1,446.21
336+63.15	13.15	36.98	4.50	2.02	17	2	1	1,743	73	1,459.66
336+90	26.85	27.71	4.50	2.38	32	4	2	1,775	76	1,484.45
337+00	10.00	26.89	4.50	6.86	10	2	2	1,785	78	1,490.62
337+50	50.00	26.32	4.50	2.98	49	8	9	1,834	90	1,519.44

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STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
		Cut	Salvaged / Unusable Pavement Material	Fill	Cut	Salvaged / Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.33	Mass Ordinate
337+57.41	7.41	26.00	4.50	2.49	7	1	1	1,842	91	1,524.39
337+95.81	38.39	31.12	4.50	0.19	41	6	2	1,882	94	1,556.08
338+00	4.19	30.94	4.50	0.37	5	1	0	1,887	94	1,560.14
338+50	50.00	38.91	4.50	0.00	65	8	0	1,952	94	1,616.03
338+74.88	24.88	36.87	4.50	0.00	35	4	0	1,987	94	1,646.80
339+00	25.12	45.52	4.50	0.00	38	4	0	2,025	94	1,680.93
339+50	50.00	40.63	4.50	0.00	80	8	0	2,105	94	1,752.37
339+58.61	8.61	39.58	4.50	0.00	13	1	0	2,118	94	1,763.72
339+79.14	20.54	32.40	4.50	0.01	27	3	0	2,145	94	1,787.66
340+00	20.86	34.59	4.50	0.00	26	3	0	2,171	94	1,810.05
340+50	50.00	40.99	4.50	0.34	70	8	0	2,241	95	1,871.28
341+00	50.00	35.84	4.50	2.81	71	8	3	2,312	99	1,930.21
341+31.21	31.21	37.75	4.50	2.86	43	5	3	2,354	103	1,963.18
341+50	18.79	37.22	4.50	1.13	26	3	1	2,381	105	1,984.30
342+00	50.00	48.06	4.50	0.93	79	8	2	2,460	107	2,052.40
342+29	29.00	52.10	4.50	0.34	54	5	1	2,513	108	2,100.45
342+29	0.00	52.10	2.25	0.34	0	0	0	2,513	108	2,100.45
342+31.31	2.31	52.10	2.25	0.34	4	0	0	2,518	108	2,104.67
342+44	12.69	61.77	2.25	3.01	27	1	1	2,545	109	2,129.33
342+44	0.00	61.77	2.25	3.01	0	0	0	2,545	109	2,129.33
342+50	6.00	61.77	2.25	3.01	14	0	1	2,558	110	2,141.66
342+80.99	30.99	75.89	2.25	0.00	79	3	2	2,637	112	2,215.78
343+00	19.01	85.00	2.25	0.00	57	2	0	2,694	112	2,270.84
343+05	5.00	85.00	2.25	0.00	16	0	0	2,710	112	2,286.16
343+05	0.00	85.00	2.25	0.00	0	0	0	2,710	112	2,286.16
343+55	50.00	34.24	2.25	2.54	110	4	2	2,820	116	2,389.28
343+60	5.00	40.73	2.25	2.22	7	0	0	2,827	116	2,395.21
344+00	40.00	26.30	2.25	6.88	50	3	7	2,877	125	2,432.57
344+50	50.00	26.51	2.25	11.10	49	4	17	2,926	147	2,455.16
345+00	50.00	32.89	2.25	2.49	55	4	13	2,981	164	2,489.25
345+10.77	10.77	35.70	2.25	2.01	14	1	1	2,994	165	2,500.85
345+50	39.23	16.14	2.25	15.60	38	3	13	3,032	182	2,518.22
345+80	30.00	16.14	2.25	15.60	18	2	17	3,050	205	2,510.60
345+80	0.00	16.28	2.25	0.51	0	0	0	3,050	205	2,510.60
346+00	20.00	16.28	2.25	0.51	12	2	0	3,062	206	2,520.49
346+50	50.00	16.50	2.25	0.30	30	4	1	3,092	207	2,545.68
347+00	50.00	15.90	2.25	0.46	30	4	1	3,122	208	2,570.58
347+50	50.00	16.64	2.25	0.20	30	4	1	3,152	209	2,595.73
348+00	50.00	16.81	2.25	0.00	31	4	0	3,183	209	2,622.28
348+05	5.00	16.81	2.25	0.00	3	0	0	3,186	209	2,624.98
348+06	1.00	16.81	0.00	0.00	1	0	0	3,187	209	2,625.56
348+50	44.00	0.00	0.00	0.00	14	0	0	3,201	209	2,639.25
					3,201	353	157			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
357+25	0.00	0.00	0.00	0	0	0	0	0.00
357+50	25.00	4.94	2.38	2	1	2	1	0.82
357+92.5	42.50	6.67	18.52	9	16	11	23	-11.92
358+00	7.50	7.06	20.70	2	5	13	31	-17.26
358+29.62	29.62	9.51	81.23	9	56	22	105	-82.54
358+50	20.38	8.14	29.84	7	42	29	161	-131.63
359+00	50.00	5.98	3.49	13	31	42	202	-159.60
359+50	50.00	6.96	3.40	12	6	54	210	-156.10
359+70	20.00	0.00	0.00	3	1	57	212	-155.19
				57	159			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
381+50	0.00	0.00	0.00	0	0	0	0	0.00
382+00	50.00	0.65	32.69	1	30	1	40	-39.65
382+50	50.00	2.35	22.39	3	51	3	108	-104.69
382+86.87	36.87	33.58	88.02	25	75	28	208	-180.43
383+00	13.13	4.22	24.15	9	27	37	245	-207.50
383+50	50.00	0.00	0.00	4	22	41	274	-233.33
				41	206			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
394+35.01	0.00	14.63	0.08	0	0	0	0	0.00
394+50	14.99	1.85	0.23	5	0	5	0	4.46
395+00	50.00	2.62	0.13	4	0	9	1	8.16
395+26.05	26.05	34.31	3.68	18	2	27	3	23.52
395+50	23.95	114.05	0.36	66	2	92	5	86.94
396+50	0.00	108.28	1.74	0	0	92	5	86.94
396+53.16	3.16	97.35	1.37	12	0	104	6	98.74
396+53.21	0.05	97.23	1.36	0	0	105	6	98.90
397+00	46.79	80.98	0.00	154	1	259	7	251.75
397+50	50.00	35.74	0.00	108	0	367	7	359.82
397+75	25.00	0.00	0.00	17	0	384	7	376.37
				384	5			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
402+50	0.00	0.00	0.00	0	0	0	0	0.00
402+78.82	28.82	0.00	0.76	0	0	0	1	-0.54
403+00	21.18	0.00	1.73	0	1	0	2	-1.84
403+25	25.00	0.08	8.79	0	5	0	8	-8.28
403+40	40.00	0.08	10.00	0	14	0	27	-26.66
403+50	25.00	0.00	2.36	0	6	0	34	-34.24
				0	26			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
423+25	0.00	0.00	0.03	0	0	0	0	0.00
423+50	25.00	5.58	18.12	3	8	3	11	-8.59
424+00	50.00	6.06	165.54	11	170	13	237	-223.99
424+50	50.00	0.21	11.05	6	164	19	455	-435.65
424+75	25.00	0.00	0.00	0	5	19	462	-442.36
				19	347			

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PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	EARTHWORK	SHEET: 257	E

FILE NAME : Q\Misc Quantities\1146-39-00\earthwork_border.ppt PLOT DATE : _____ PLOT BY : Ed Hoefferle PLOT NAME : _____ PLOT SCALE : 1:1

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged / Unusable Pavement Material	Fill	Cut	Salvaged / Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.33	
434+50	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00
434+59	9.00	0.00	0.00	0.00	0	0	0	0	0	0.00
434+60	1.00	18.11	2.25	0.70	0	0	0	0	0	0.28
434+75	15.00	18.11	2.25	0.70	10	1	0	10	1	8.57
434+92.2	17.20	21.33	2.25	0.00	13	1	0	23	1	19.41
435+00	7.80	20.12	2.25	0.07	6	1	0	29	1	24.73
435+50	50.00	27.04	2.25	0.00	44	4	0	73	1	64.16
436+00	50.00	52.96	2.25	0.00	74	4	0	147	1	134.07
436+28.58	28.58	28.68	2.25	0.00	43	2	0	190	1	174.90
436+50	21.42	56.08	2.25	0.00	34	2	0	224	1	206.73
436+75	25.00	54.95	2.25	0.00	51	2	0	275	1	256.05
437+00	25.00	55.63	2.25	0.00	51	2	0	326	1	305.17
437+25	25.00	57.70	2.25	0.00	52	2	0	379	1	355.55
437+50	25.00	55.60	2.25	0.00	52	2	0	431	1	405.92
437+75	25.00	51.67	2.25	0.00	50	2	0	481	1	453.51
438+00	25.00	49.92	2.25	0.00	47	2	0	528	1	498.46
438+25	25.00	48.96	2.25	0.00	46	2	0	574	1	542.15
438+50	25.00	49.98	2.25	0.00	46	2	0	619	1	585.88
438+75	25.00	41.05	2.25	0.00	42	2	0	661	1	625.94
439+00	25.00	37.38	2.25	0.00	36	2	0	698	1	660.17
439+25	25.00	28.25	2.25	0.00	30	2	0	728	1	688.47
439+50	25.00	13.27	2.25	0.00	19	2	0	747	1	705.61
439+58	8.00	13.27	2.25	0.00	4	1	0	751	1	708.87
439+59	1.00	13.27	0.00	0.00	0	0	0	752	1	709.32
439+70	11.00	0.00	0.00	0.00	3	0	0	755	1	712.03
					747	41	1			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
443+90	0.00	0.00	0.00	0	0	0	0	0.00
444+45	55.00	13.33	6.94	14	7	14	9	4.17
444+50	5.00	13.26	7.23	2	1	16	11	4.89
445+00	50.00	12.26	14.05	24	20	40	37	2.31
445+50	50.00	11.41	13.11	22	25	62	71	-9.22
446+00	50.00	11.03	14.97	21	26	82	105	-23.03
446+50	50.00	12.25	7.32	22	21	104	133	-28.92
447+00	50.00	31.58	12.48	41	18	144	157	-12.72
447+24	24.00	31.58	35.09	28	21	173	185	-12.76
447+50	26.00	36.70	18.80	33	26	205	220	-14.39
447+89.08	39.08	51.38	16.45	64	26	269	254	15.44
448+00	10.92	53.85	23.83	21	8	290	265	25.88
449+27.84	0.00	46.85	24.42	0	0	290	265	25.88
449+42.01	14.17	47.64	23.08	25	12	315	281	34.10
449+50	7.99	43.85	16.01	14	6	329	289	39.95
450+00	50.00	29.69	25.27	68	38	397	340	57.21
450+50	50.00	11.48	26.39	38	48	435	403	31.71
451+00	50.00	12.16	23.10	22	46	457	464	-7.34
451+50	50.00	13.84	12.18	24	33	481	508	-26.72
452+00	50.00	21.35	0.52	33	12	514	523	-9.77
452+40	40.00	21.35	0.52	32	1	545	524	20.84
453+72	132.00	0.00	0.00	52	1	597	526	71.34
				597	396			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
462+76	0.00	0.00	0.00	0	0	0	0	0.00
463+50	74.00	11.98	4.42	16	6	16	8	8.35
463+95.16	45.16	14.04	4.55	22	7	38	18	20.13
464+01.21	6.05	14.03	4.82	3	1	41	19	21.88
464+20.05	18.84	14.96	4.37	10	3	51	24	27.73
464+45.14	25.09	36.33	4.68	24	4	75	29	45.98
464+50	4.86	29.42	6.85	6	1	81	31	50.51
464+96.11	0.00	88.24	0.00	0	0	81	31	50.51
465+00	3.89	88.63	0.00	13	0	94	31	63.25
465+21.15	21.15	46.42	0.01	53	0	147	31	116.12
465+46.14	25.00	27.98	9.19	34	4	181	36	144.90
465+50	3.86	24.49	10.57	4	1	185	38	146.77
465+52.65	2.65	24.27	8.38	2	1	187	39	147.92
465+81	2.65	24.27	8.38	2	1	190	41	149.21
466+00	47.35	0.00	0.00	3	0	193	41	152.21
466+10.96	10.96	13.11	2.31	3	0	195	41	154.25
466+35.94	24.98	13.53	5.01	12	3	208	46	162.07
466+50	14.06	14.06	5.65	7	3	215	49	165.56
466+60.94	10.94	14.32	5.40	6	2	221	52	168.33
466+99.37	38.43	23.89	6.98	27	9	248	64	183.81
467+00	0.63	23.99	6.84	1	0	248	64	184.15
467+24.37	24.37	23.39	8.90	21	7	270	74	196.09
467+49.38	25.01	21.41	14.89	21	11	291	88	202.18
467+50	0.62	21.33	14.97	0	0	291	89	202.21
467+78.92	28.92	24.86	16.99	25	17	316	112	204.19
468+00	21.08	7.87	14.41	13	12	329	128	200.67
468+50	50.00	8.04	3.65	15	17	343	150	193.15
469+00	50.00	0.00	0.00	7	3	351	155	196.09
				351	116			

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PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	EARTHWORK	SHEET: 260	E

FILE NAME : Q\Misc Quantities\1146-39-00\earthwork_border.ppt PLOT DATE : _____ PLOT BY : Ed Hoefferle PLOT NAME : _____ PLOT SCALE : 1:1

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
489+00	0.00	1.48	18.39	0	0	0	0	0.00
489+51	51.00	2.87	41.68	4	57	4	75	-71.35
489+76	25.00	3.05	35.24	3	36	7	123	-115.97
490+01	25.00	3.19	30.47	3	30	10	163	-153.54
490+25.17	24.17	1.44	14.59	2	20	12	190	-178.29
490+50	24.83	1.34	9.19	1	11	13	205	-191.56
490+74	24.00	1.55	9.19	1	8	14	216	-201.14
490+90	16.00	0.00	0.00	0	3	15	219	-204.30
505+05	0.00	0.01	2.90	0	0	0	0	0.00
505+50	45.00	0.01	0.29	0	3	0	572	-572.20
506+00	50.00	0.00	0.87	0	1	0	804	-803.55
506+50	50.00	8.35	11.05	8	11	8	818	-810.50
507+00	0.00	0.00	0.00	0	0	0	0	0.00
507+50	50.00	4.59	59.19	4	55	4	73	-68.64
507+56	6.00	4.65	59.66	1	13	5	90	-85.18
507+61	5.00	4.72	59.17	1	11	6	105	-98.95
507+69	8.00	4.85	58.69	1	17	8	128	-120.75
507+86	17.00	5.72	53.23	3	35	11	175	-164.29
508+00	14.00	5.63	57.40	3	29	14	213	-199.49
508+11	11.00	5.44	62.76	2	24	16	246	-229.79
508+24	13.00	5.30	53.20	3	28	19	283	-264.34
508+50	26.00	5.81	29.28	5	40	24	336	-311.80
509+00	50.00	7.13	1.37	12	28	36	374	-337.56
509+50	50.00	0.00	0.00	7	1	43	375	-332.65
				65	462			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
510+75	0.00	0.00	0.00	0	0	0	0	0.00
511+00	25.00	3.79	0.92	2	0	2	1	1.19
511+15.85	15.85	3.56	2.22	2	1	4	2	2.12
511+28.62	12.77	6.99	3.67	2	1	6	4	2.76
511+50	21.38	28.16	0.00	14	1	20	6	14.75
511+76.52	26.52	24.64	4.67	26	2	46	9	37.62
512+00	23.48	21.56	3.76	20	4	66	14	52.83
512+24.41	24.41	26.66	1.77	22	3	88	17	71.31
512+50	25.59	24.39	1.90	24	2	112	19	93.19
512+72	22.00	0.00	0.00	10	1	122	20	102.10
513+00	28.00	0.00	0.08	0	0	122	20	102.04
513+11.2	11.20	0.11	35.38	0	7	122	30	92.29
513+18	6.80	0.11	35.38	0	9	122	42	80.46
513+18	0.00	2.84	1.13	0	0	122	42	80.46
513+43.31	25.31	2.84	1.13	3	1	125	43	81.72
513+50	6.69	3.10	1.00	1	0	126	44	82.10
513+68.05	18.05	3.32	0.79	2	1	128	44	83.45
514+71	0.00	0.00	0.00	0	0	128	44	83.45
				128	33			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
515+35	0.00	0.00	0.00	0	0	0	0	0.00
515+45.32	10.32	0.00	1.05	0	0	0	0	-0.27
515+50	4.68	0.00	1.58	0	0	0	1	-0.57
516+00	50.00	0.00	9.75	0	10	0	15	-14.53
516+50	50.00	0.00	16.84	0	25	0	47	-47.28
517+00	50.00	0.00	11.42	0	26	0	82	-82.08
517+24.87	24.87	0.00	0.00	0	5	0	89	-89.07
				0	67			

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
531+08.75	0.00	9.41	0.12	0	0	0	0	0.00
531+50	41.25	0.00	22.49	7	17	7	23	-15.78
532+00	50.00	0.00	49.54	0	67	7	112	-104.49
532+50	50.00	0.00	20.23	0	65	7	198	-190.41
533+00	50.00	0.00	8.13	0	26	7	233	-225.34
533+50	50.00	0.00	4.41	0	12	7	248	-240.79
534+00	50.00	0.00	0.67	0	5	7	254	-247.05
534+50	50.00	0.00	4.04	0	4	7	260	-252.86
535+00	50.00	0.00	0.08	0	4	7	265	-257.94
535+50	50.00	0.00	1.95	0	2	7	268	-260.44
535+62	12.00	0.00	0.00	0	0	7	268	-261.02
53562.00	0.00	0.00	0.00	0	0	7	268	-261.02
535+94.49	32.49	6.94	8.45	2	3	9	272	-263.09
536+30	0.00	0.00	0.00	0	0	9	272	-263.09
				9	205			

9

9

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	EARTHWORK	SHEET: 262	E

FILE NAME : Q\Misc Quantities\1146-39-00\earthwork_border.ppt PLOT DATE : _____ PLOT BY : Ed Hoefferle PLOT NAME : _____ PLOT SCALE : 1:1

LONE PINE

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
20+12	0.00	21.26	0.00	0	0	0	0	0.00
20+75.64	63.64	21.26	0.00	50	0	50	0	50.11
20+75.64	0.00	4.99	66.03	0	0	50	0	50.11
20+95	19.36	1.49	66.41	2	47	52	63	-10.71
21+25	0.00	0.00	0.00	0	0	52	63	-10.71
				52	47			

RIVERVIEW

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
28+80	0.00	0.00	0.00	0	0	0	0	0.00
29+00	20.00	2.08	3.22	1	1	1	2	-0.82
29+32.49	32.49	0.40	7.21	1	6	2	10	-7.67
29+50	17.51	2.03	84.33	1	30	3	49	-46.36
29+59.98	9.98	2.85	107.47	1	35	4	97	-92.60
				4	73			

SCHROETER

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
70+56.58	0.00	2.97	5.61	0	0	0	0	0.00
71+00	43.42	0.30	1.12	3	5	3	7	-4.57
71+36.14	36.14	2.46	1.85	2	2	4	10	-5.37
				4	7			

CTH DE

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
88+30.11	0.00	2.41	0.02	0	0	0	0	0.00
88+50	19.89	5.64	0.60	3	0	3	0	2.66
89+00	50.00	19.55	0.73	23	1	26	2	24.35
89+24.46	24.46	24.95	0.04	20	0	46	2	44.04
89+48.03	23.57	81.30	0.09	46	0	93	2	90.33
				93	2			

SILVER CREEK ROAD

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
80+58.2	0.00	28.34	6.32	0	0	0	0	0.00
80+84.72	26.52	3.48	1.06	16	4	16	5	10.81
81+00	15.28	3.86	0.83	2	1	18	6	12.18
81+24.9	24.90	1.31	0.00	2	0	20	6	14.05
81+28	3.10	1.31	0.00	0	0	20	6	14.20
				20	5			

LYNN (SOUTH)

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
98+25	0.00	0.00	0.00	0	0	0	0	0.00
98+44.88	19.88	1.91	0.23	1	0	1	0	0.59
98+50	5.12	1.74	0.38	0	0	1	0	0.86
99+00	50.00	3.51	2.36	5	3	6	4	2.35
99+35.14	35.14	44.18	2.74	31	3	37	8	28.97
99+35.14	0.00	192.70	6.00	0	0	37	8	28.97
99+84	48.86	192.70	6.00	349	11	386	22	363.24
				386	17			

LYNN (NORTH)

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
100+15	0.00	112.00	1.00	0	0	0	0	0.00
100+57.91	42.91	112.00	1.00	178	2	178	2	175.88
100+57.91	0.00	38.19	0.54	0	0	178	2	175.89
101+00	42.09	0.10	0.56	30	1	208	3	204.59
101+50	50.00	0.64	0.05	1	1	209	4	204.51
101+50.27	0.27	0.64	0.04	0	0	209	4	204.51
				209	3			

CTH I (SOUTH)

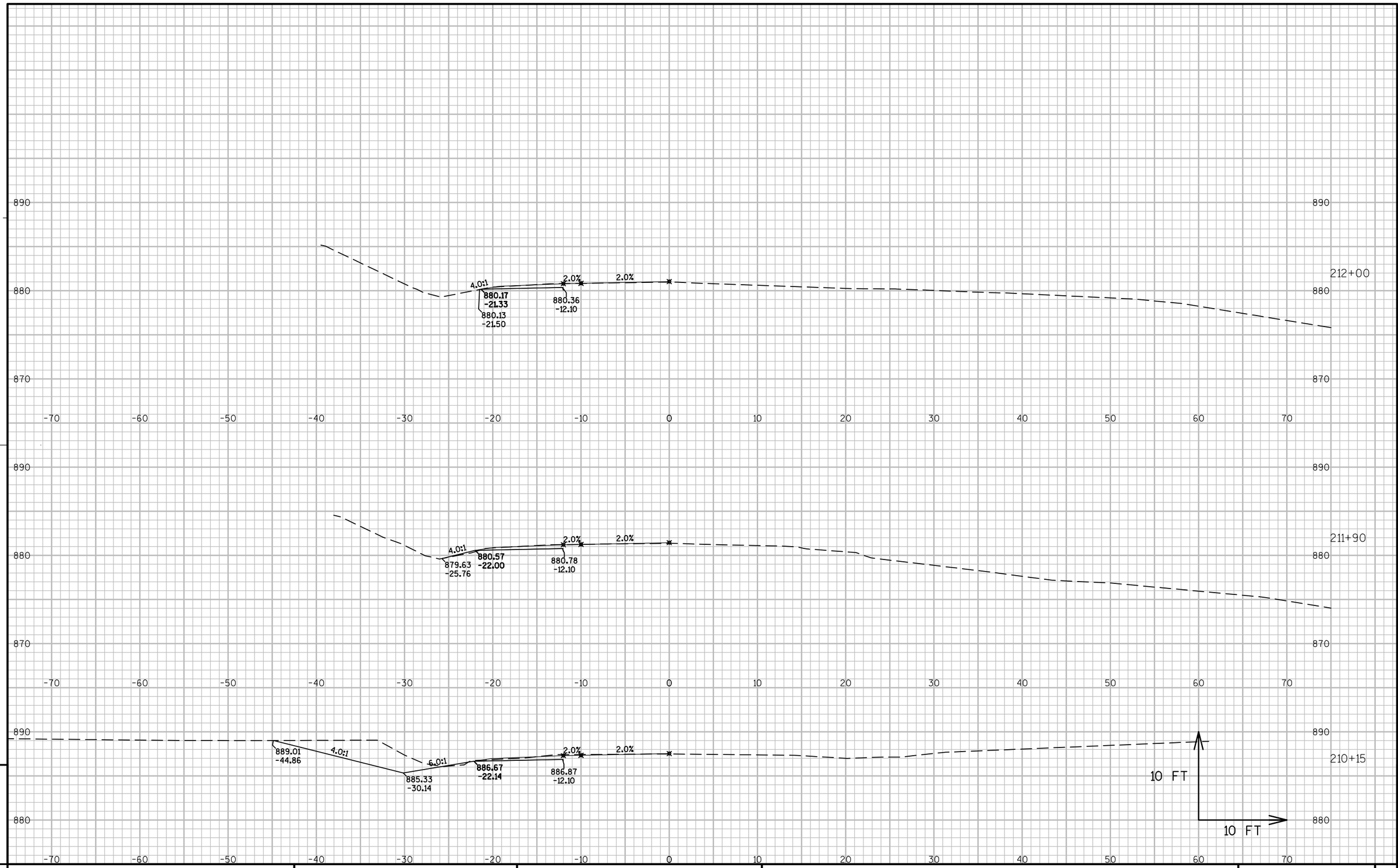
STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
108+50	0.00	0.63	3.93	0	0	0	0	0.00
109+00	50.00	12.48	4.99	12	8	12	11	1.16
109+40.51	40.51	23.63	33.27	27	29	39	49	-9.93
109+40.51	0.00	42.00	62.00	0	0	39	49	-9.93
109+89	48.49	42.00	62.00	75	111	115	197	-82.59
				115	148			

CTH I (NORTH)

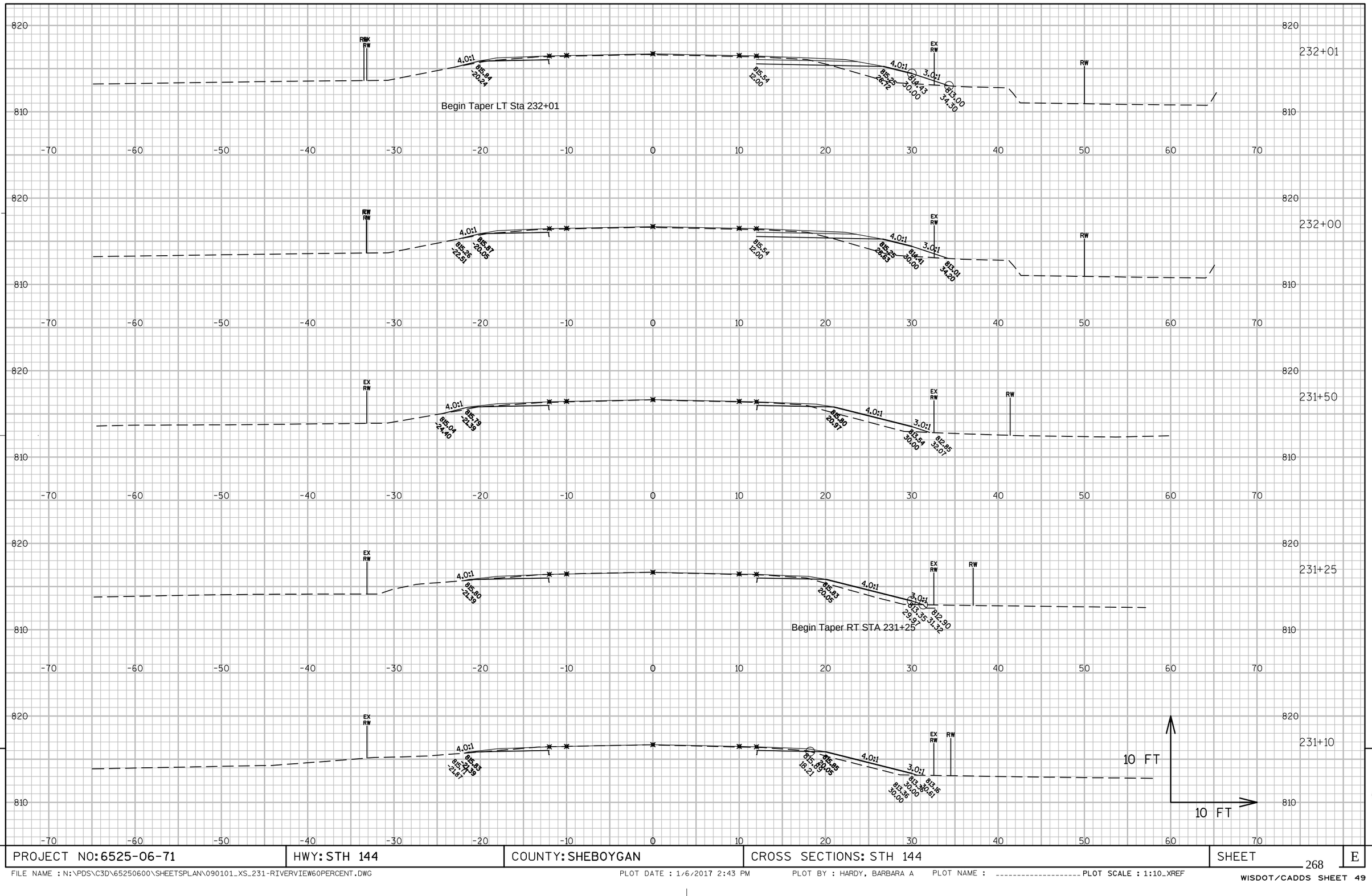
STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
110+16	0.00	50.00	45.00	0	0	0	0	0.00
110+60.68	44.68	50.00	46.00	83	75	83	100	-17.40
110+60.68	0.00	20.35	20.35	0	0	83	100	-17.40
111+00	39.32	17.29	3.53	27	17	110	123	-13.12
111+39.86	39.86	0.32	5.26	13	6	123	132	-8.76
				123	99			

PE 464+00 LT

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate
00+50	0.00	0.00	0.00	0	0	0	0	0.00
00+62.04	12.04	83.19	0.15	19	0	19	0	18.51
01+00	37.96	111.60	0.00	137	0	155	0	155.29
01+50	50.00	86.88	0.00	184	0	339	0	339.07
2+05	55.00	86.88	0.00	177	0	516	0	516.05
				516	0			



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E



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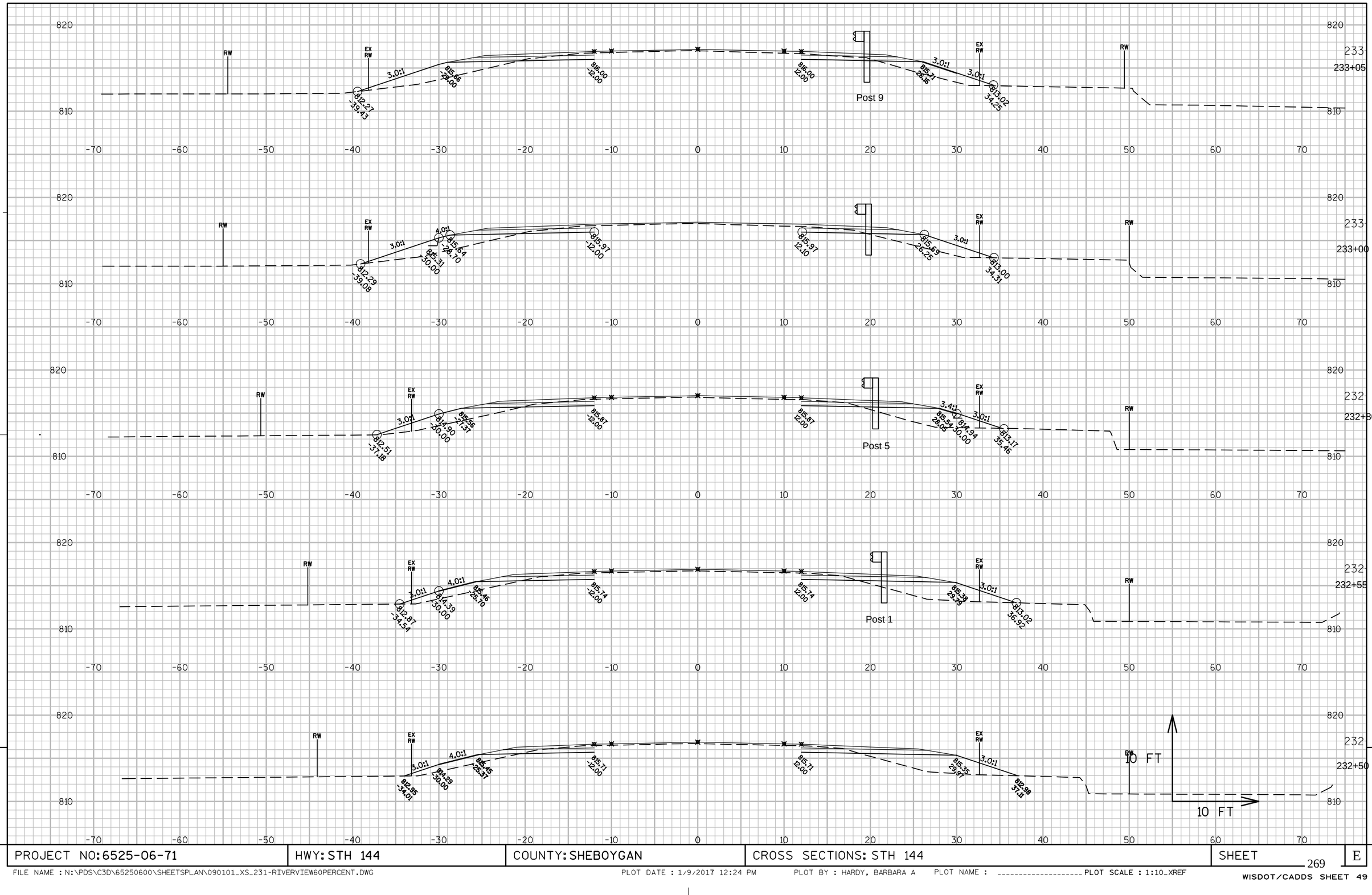

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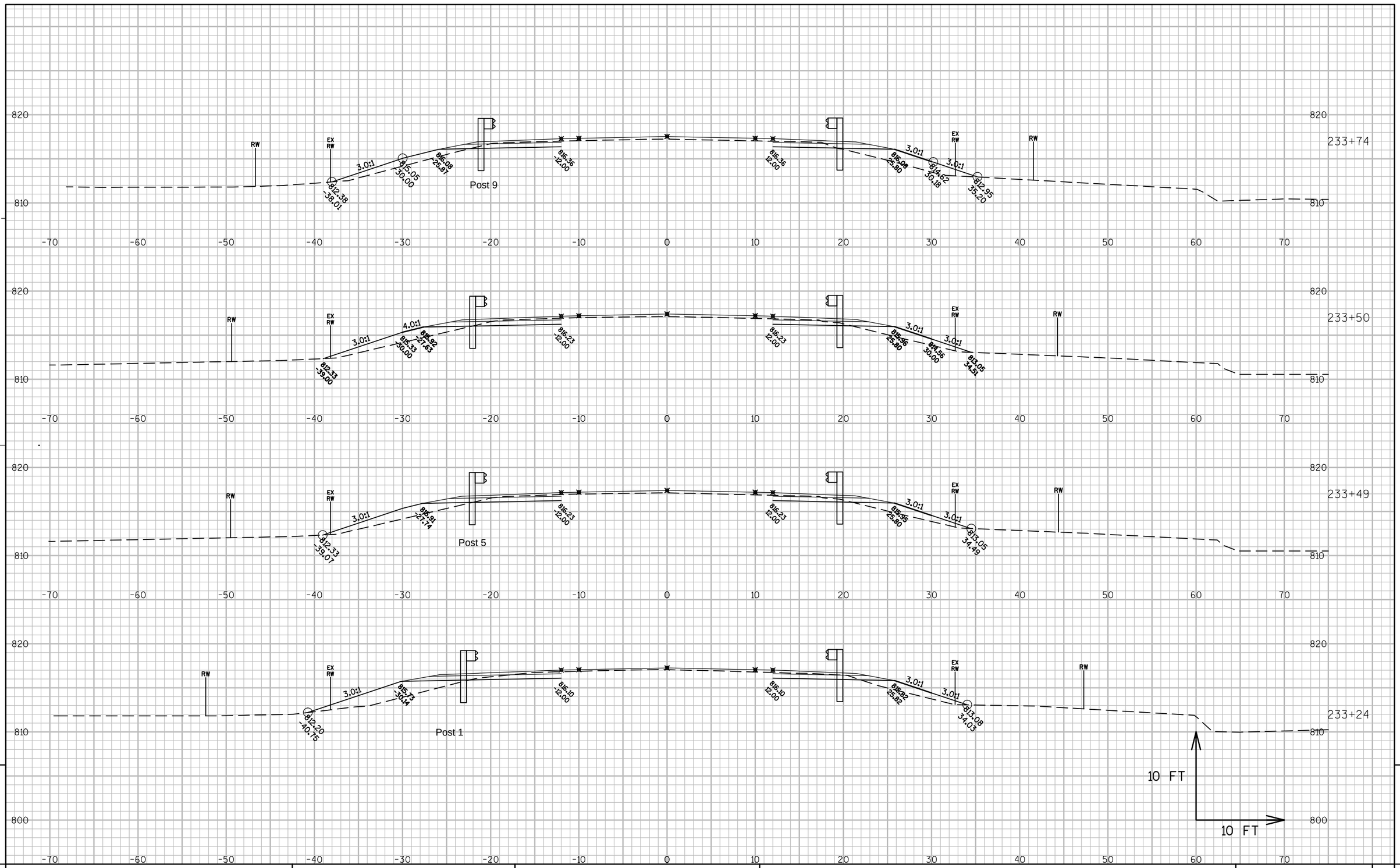
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 269	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 270	E

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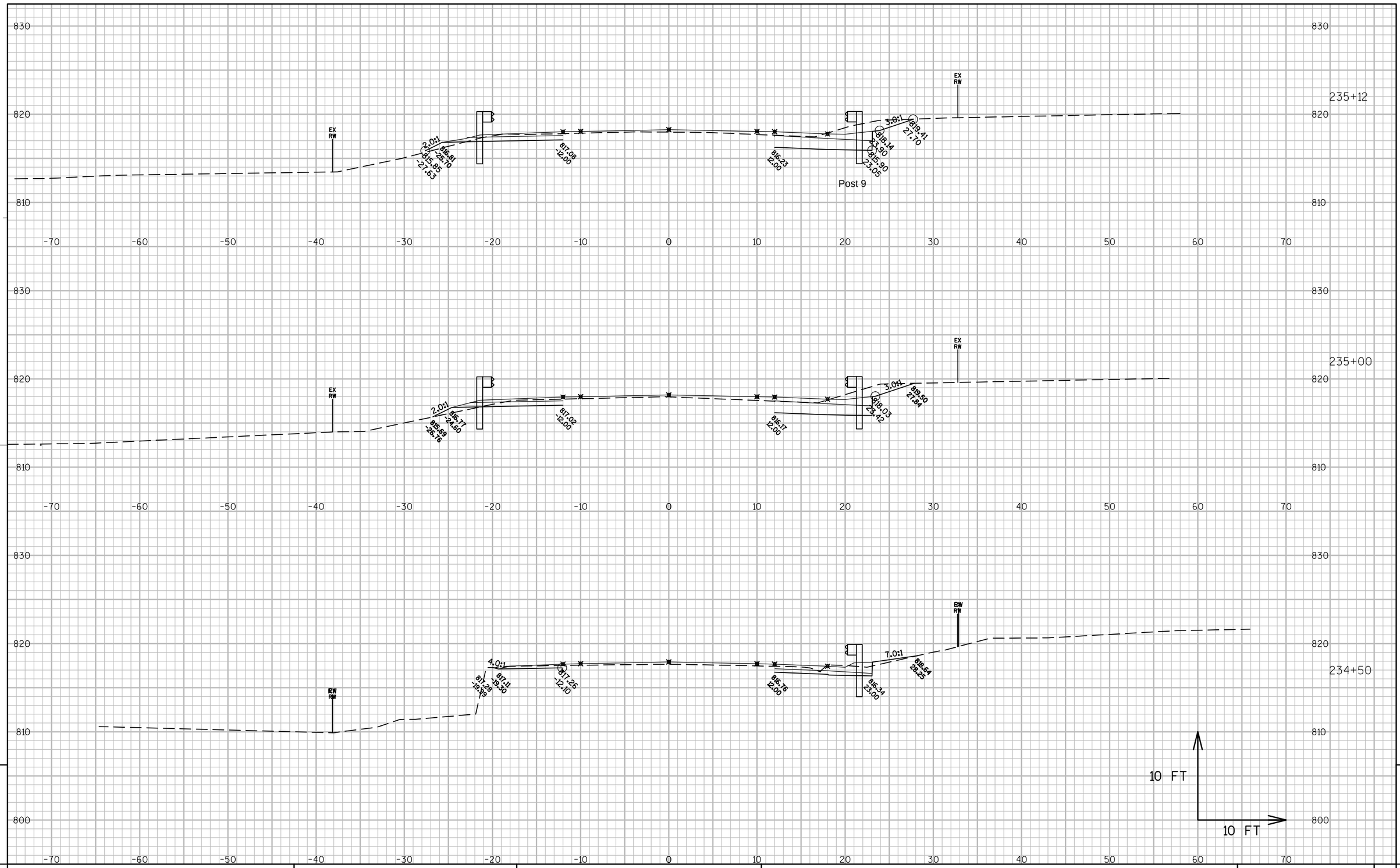
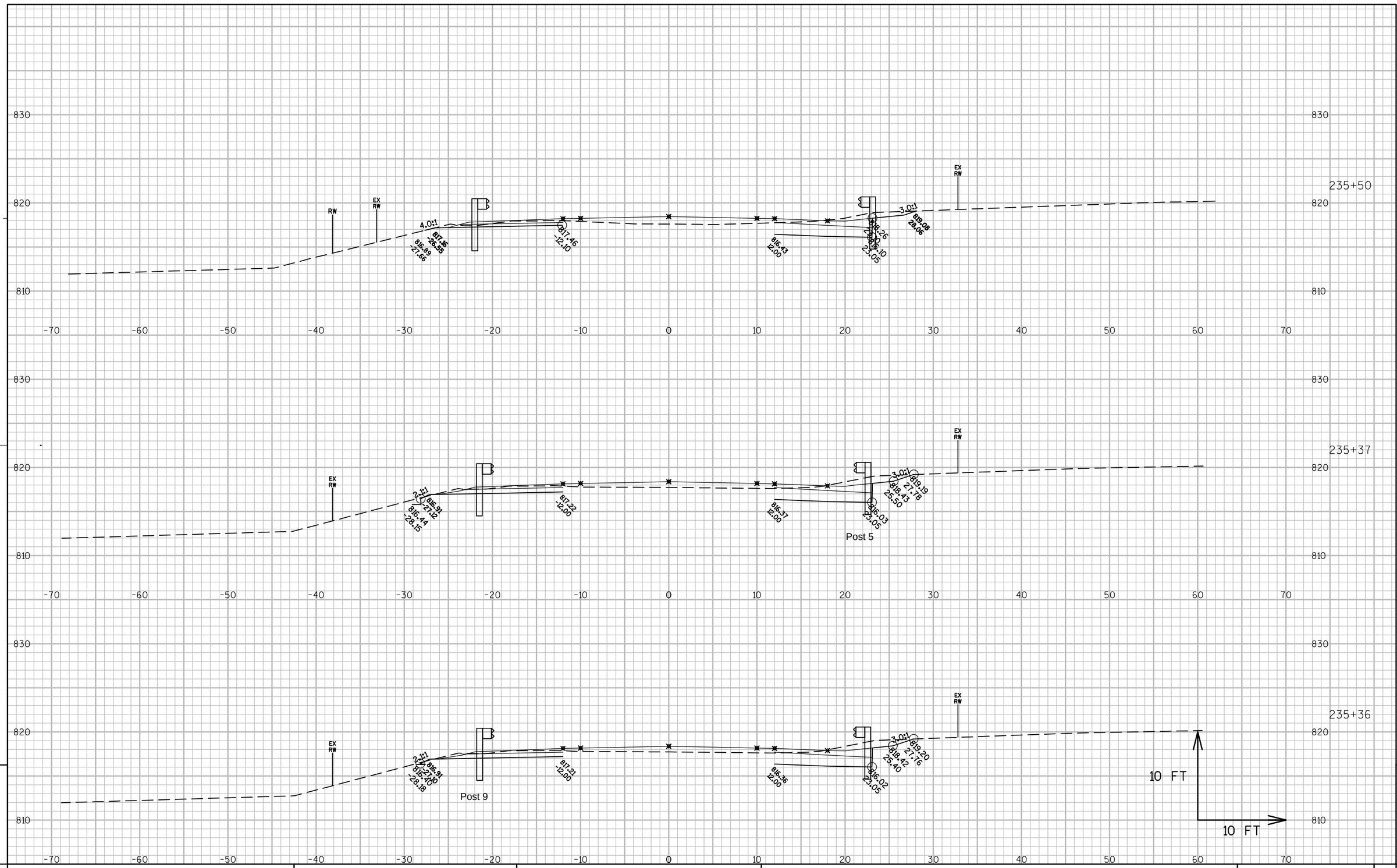
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 271	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS_231-RIVERVIEW60PERCENT.DWG PLOT DATE : 1/9/2017 12:25 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS_231-RIVERVIEW60PERCENT.DWG PLOT DATE : 1/9/2017 12:25 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

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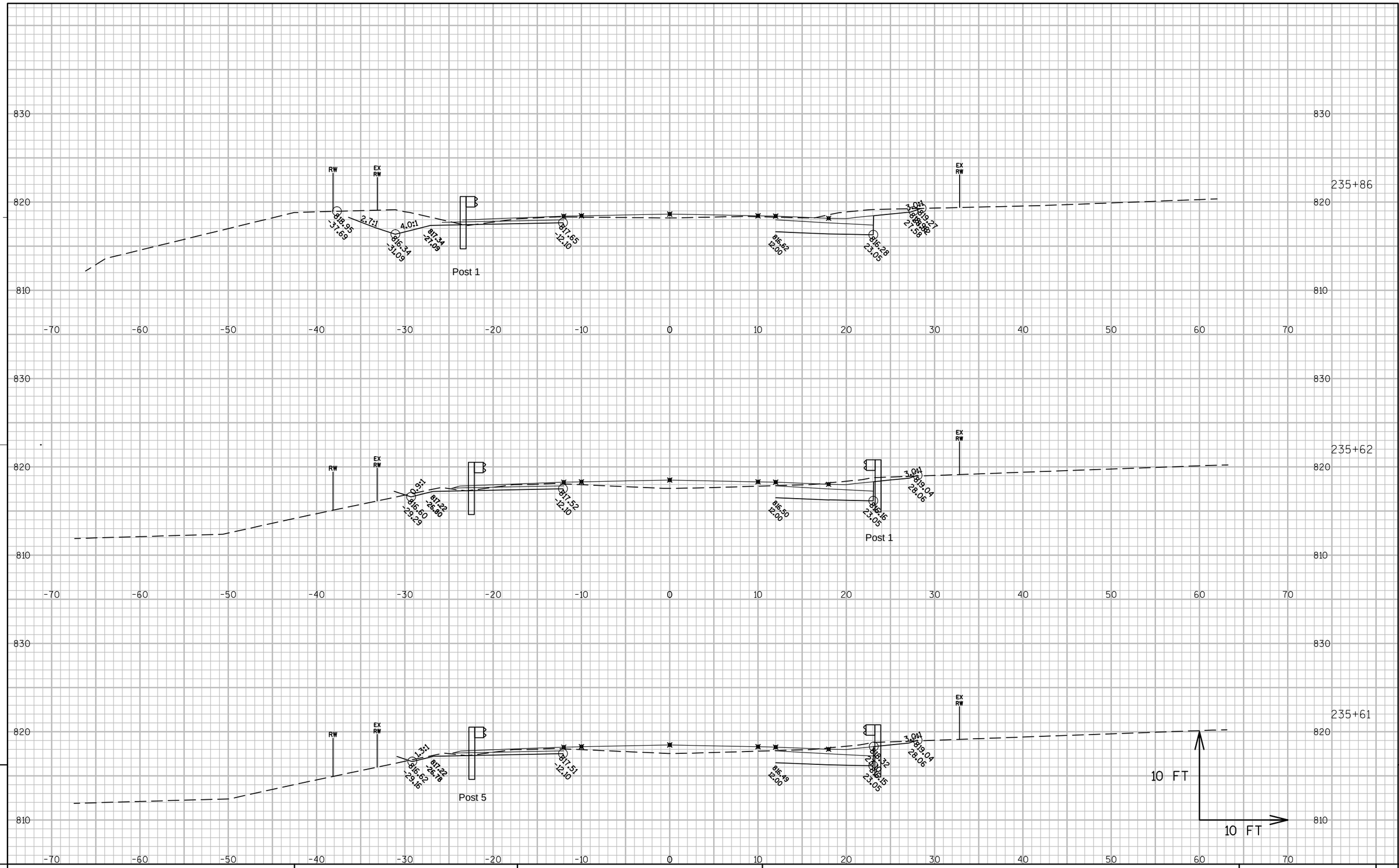

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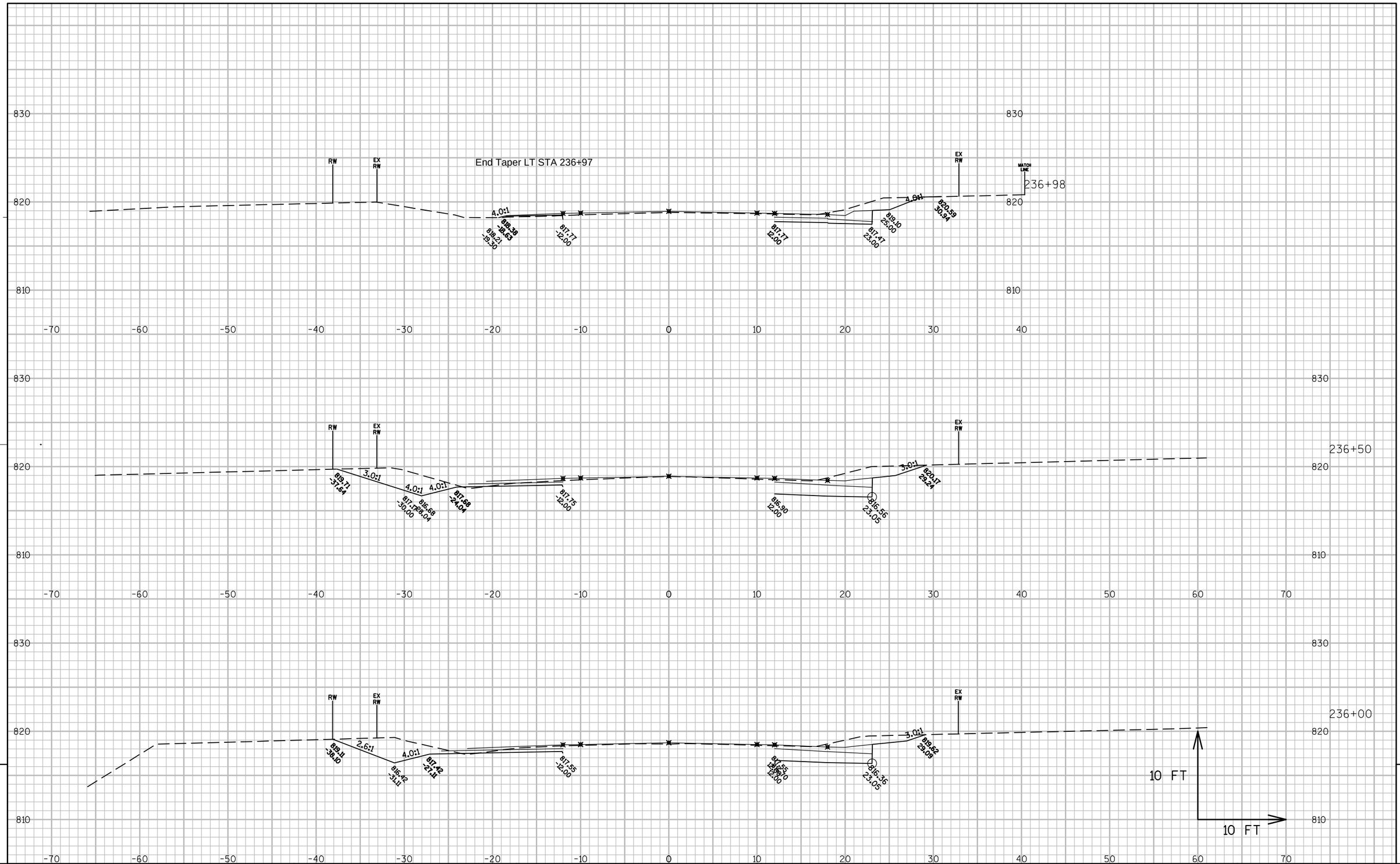
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 273	E



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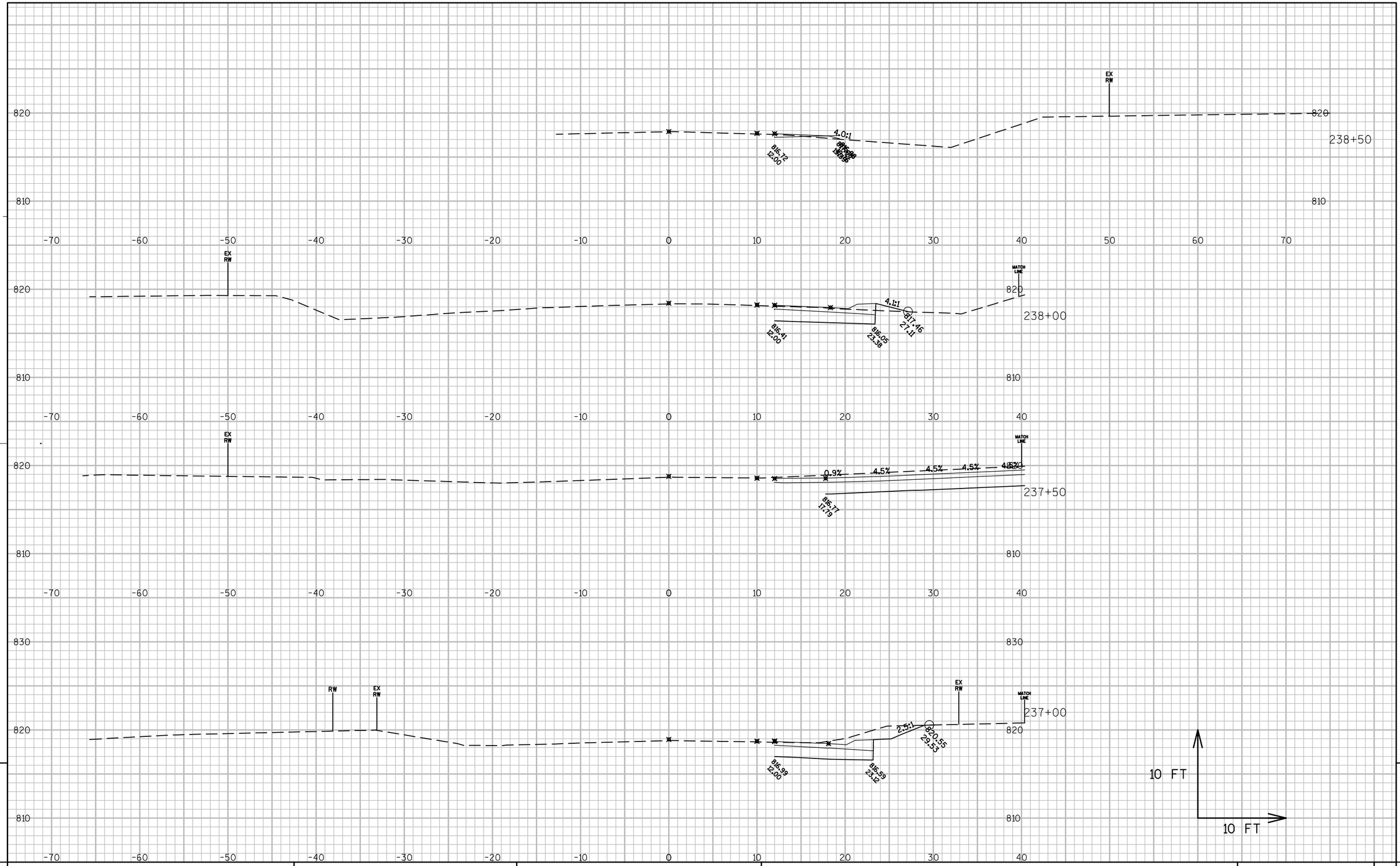
FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS_231-RIVERVIEW60PERCENT.DWG PLOT DATE : 1/6/2017 2:43 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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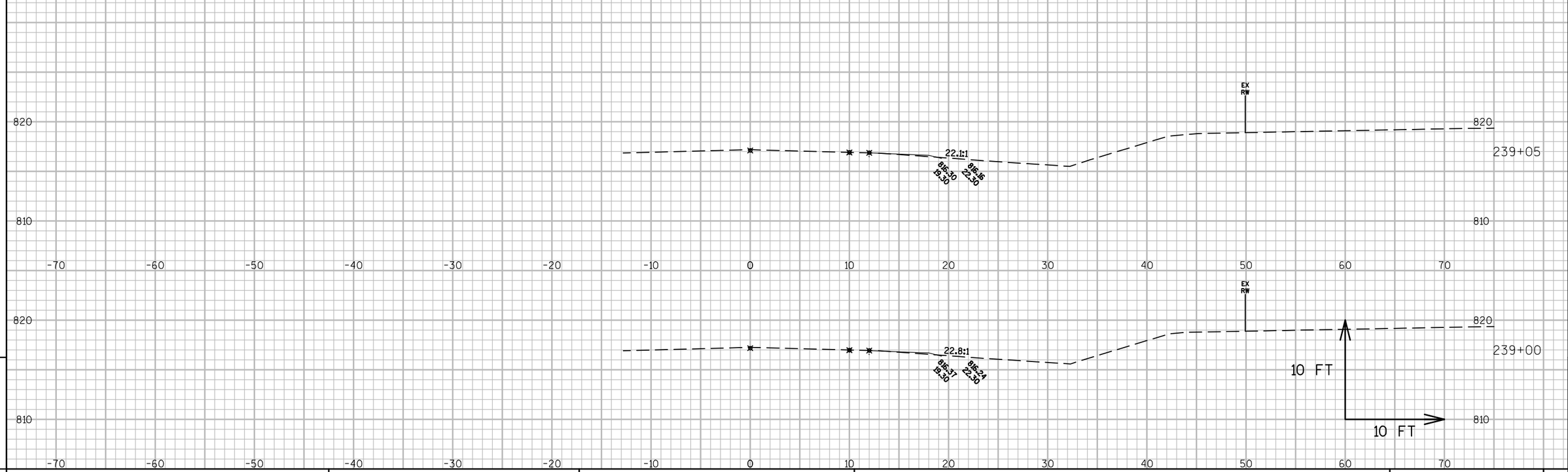
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 275	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 276	E

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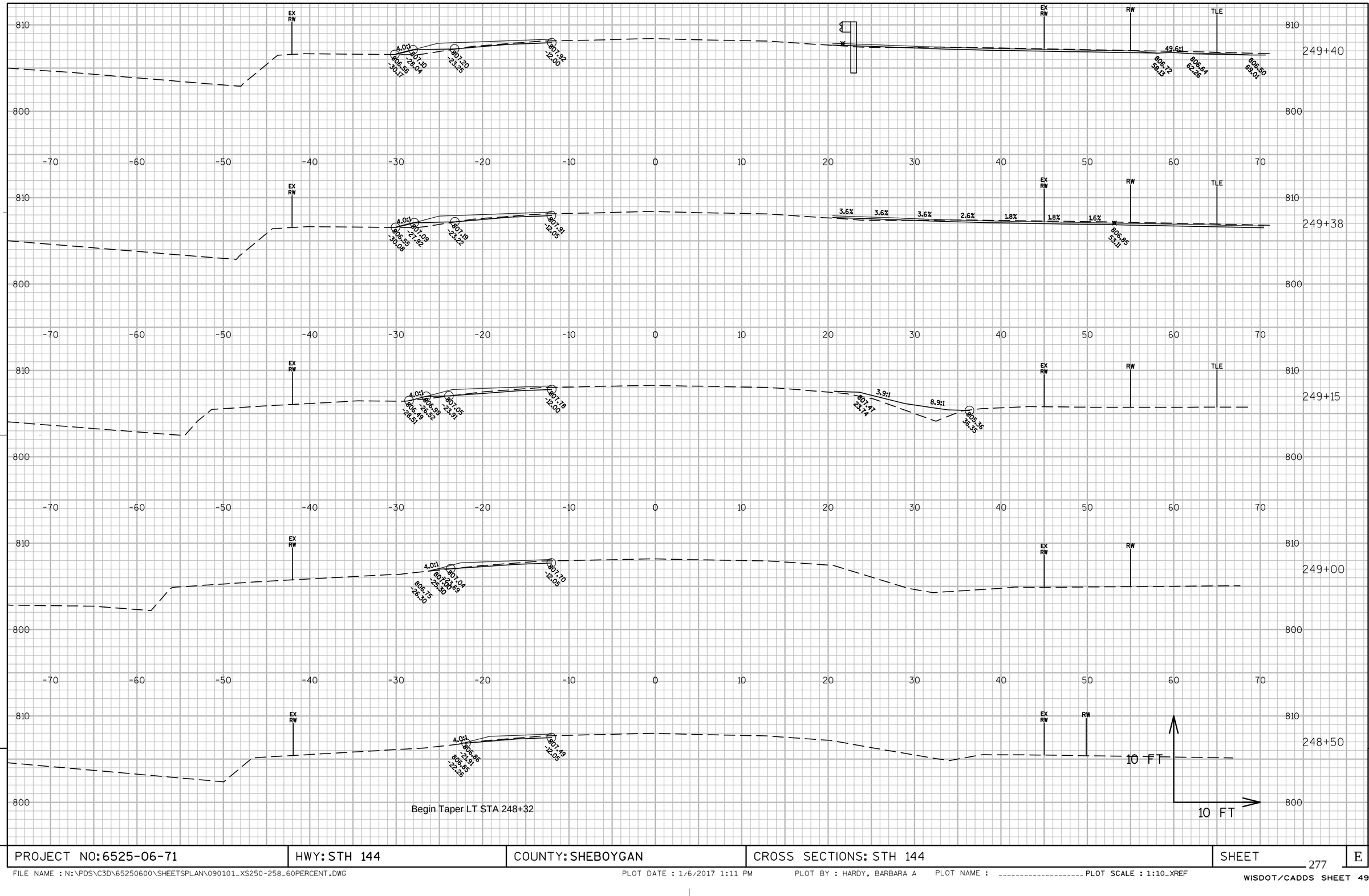

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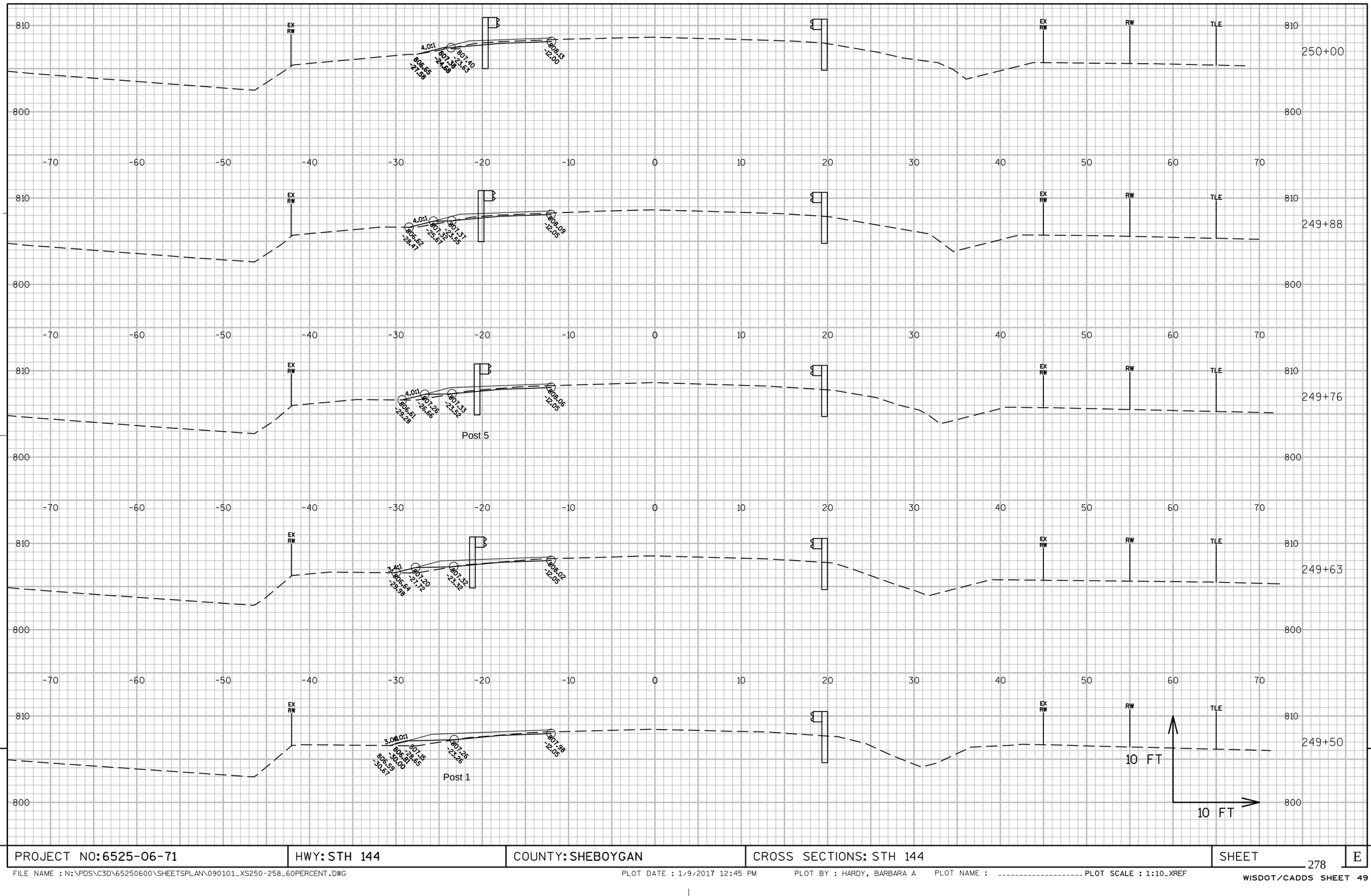

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PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 278	E

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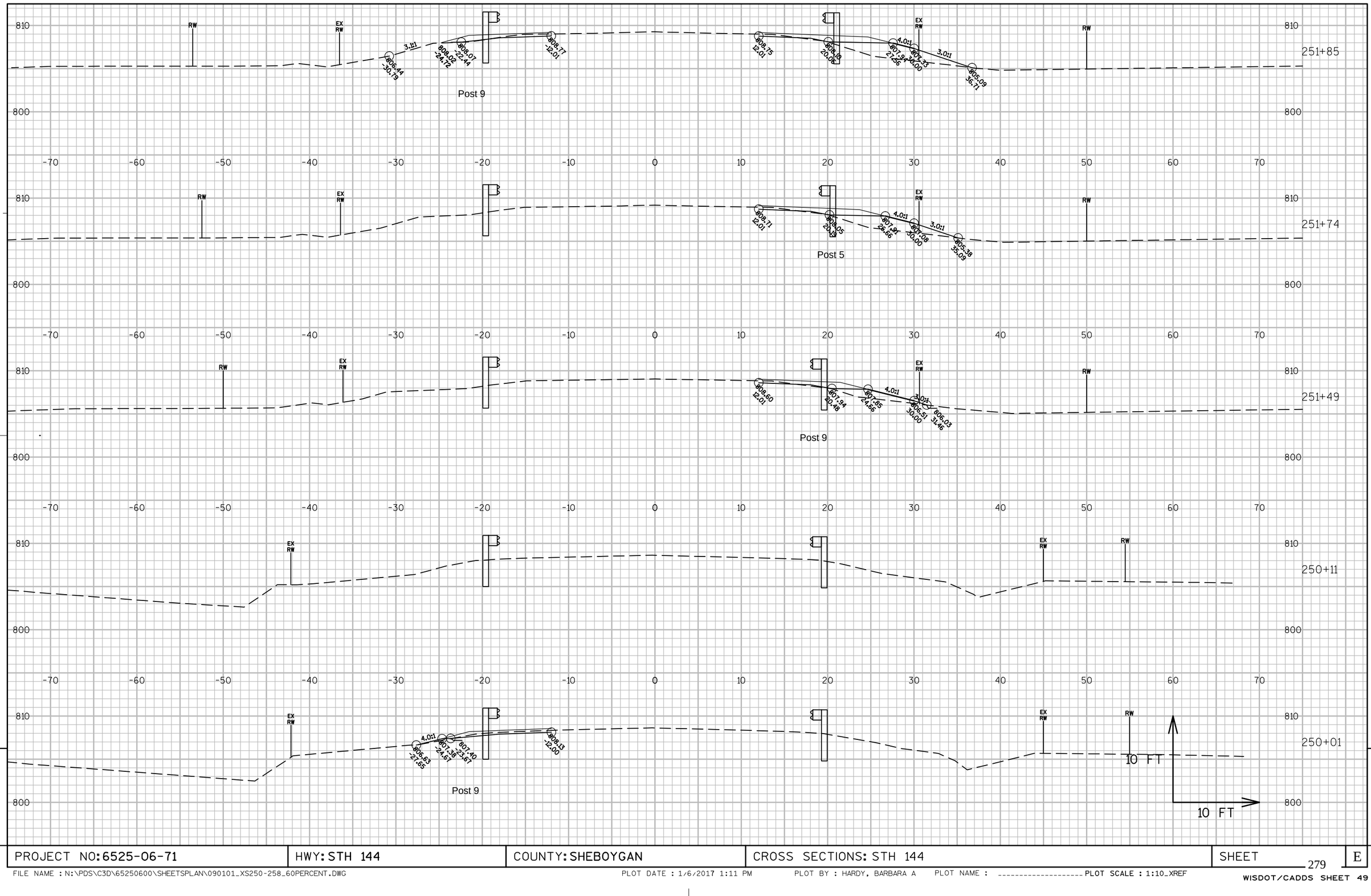

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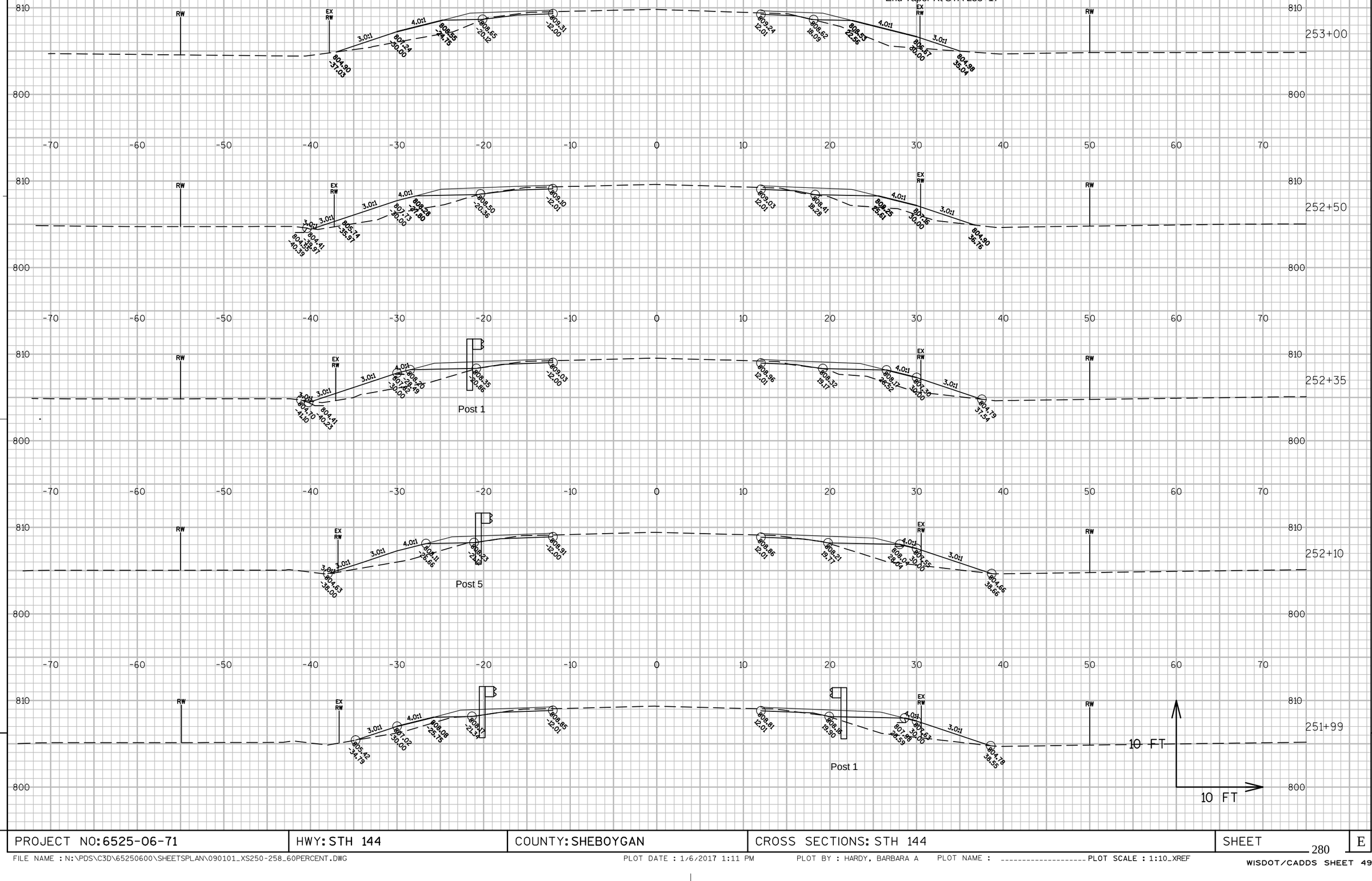
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 279	E

End Taper Rt STA 253+17



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 280	E

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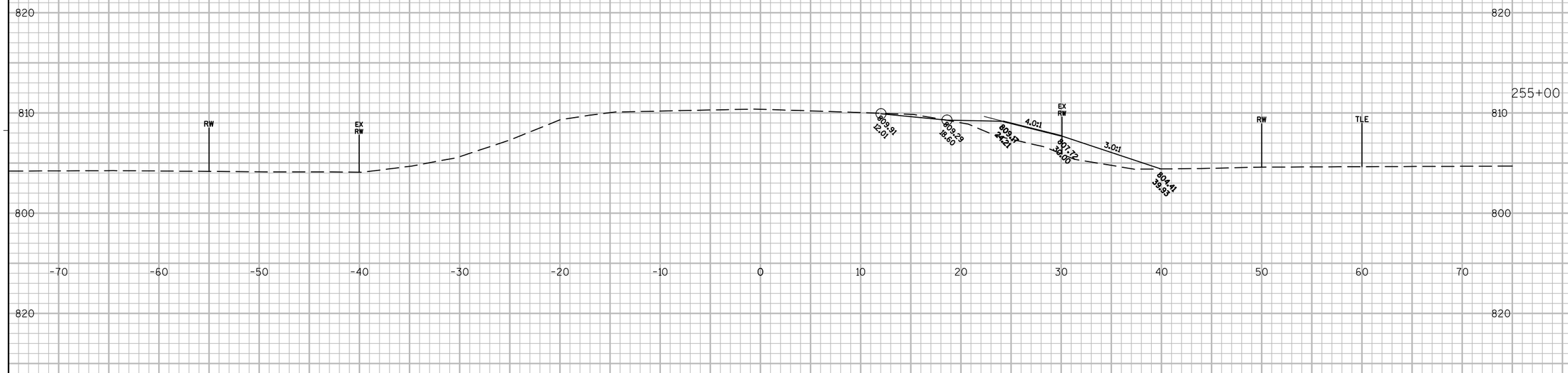
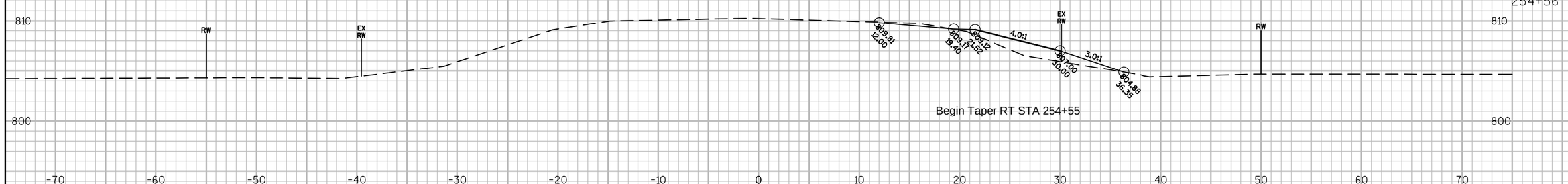
WISDOT/CADDS SHEET 49

255+00



254+56



Begin Taper RT STA 254+55

End Taper LT STA 253+54

253+50

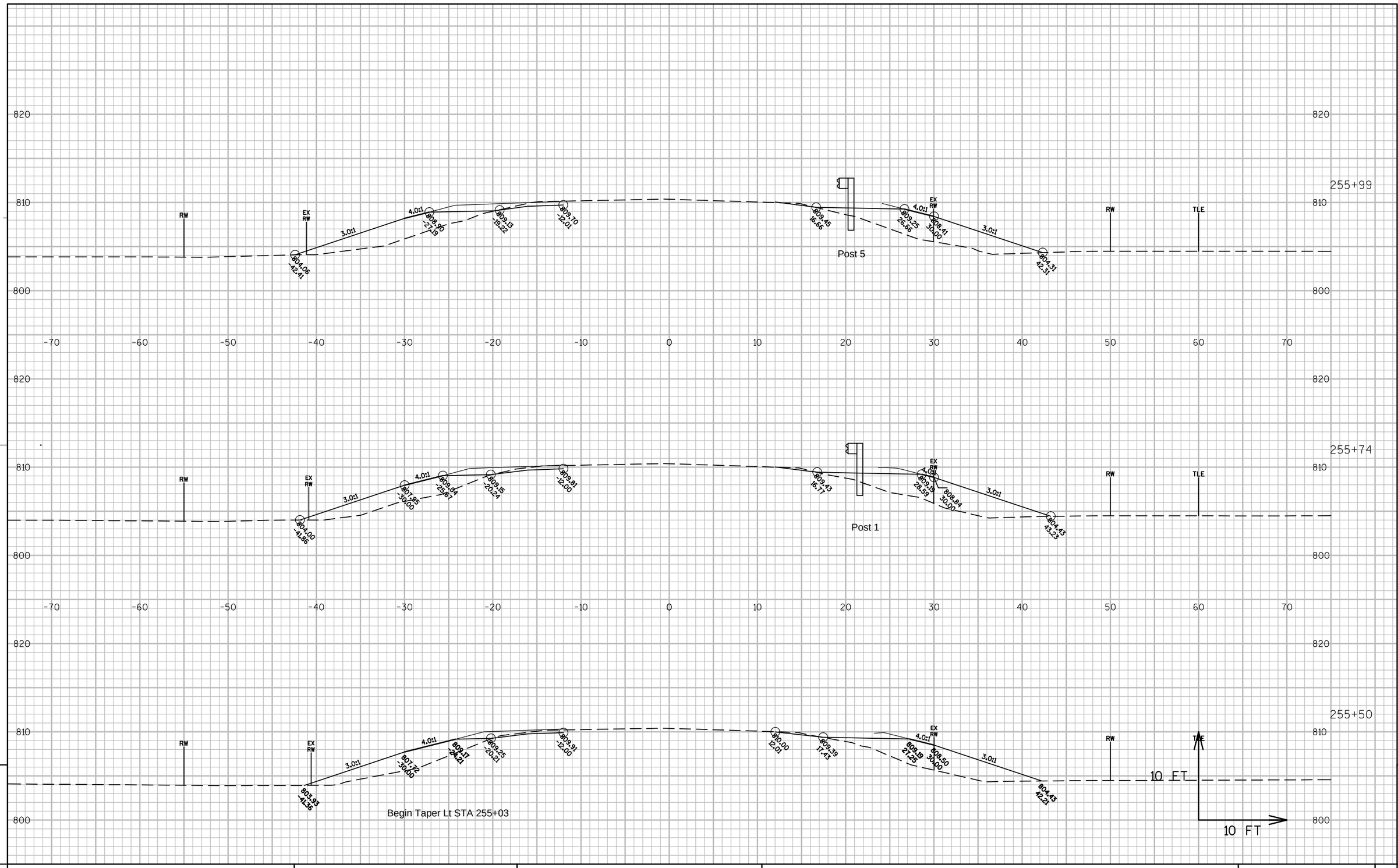
9

9

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS250-258_60PERCENT.DWG PLOT DATE : 1/6/2017 1:12 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 282	E

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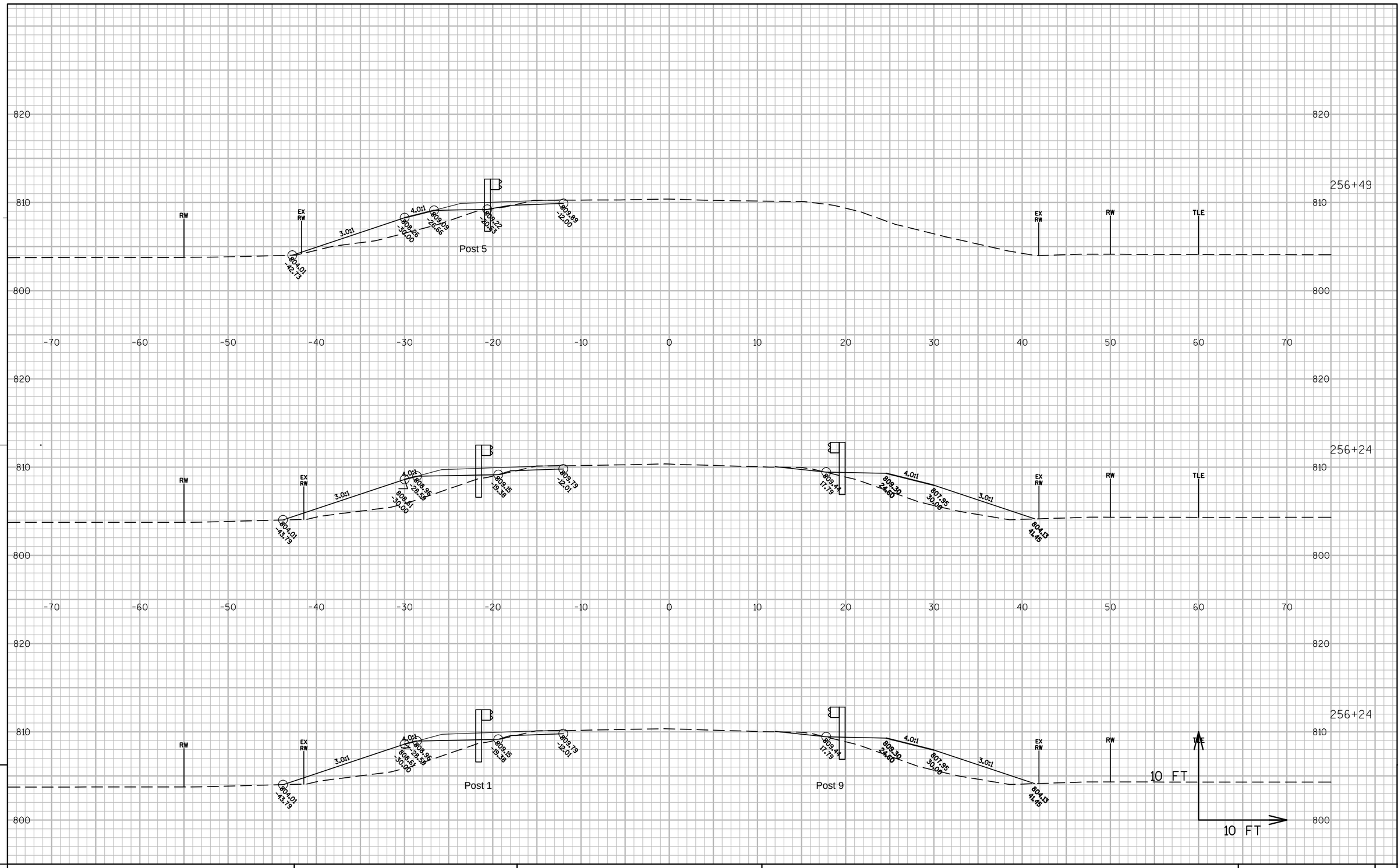
WISDOT/CADDS SHEET 49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810
800
-70
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
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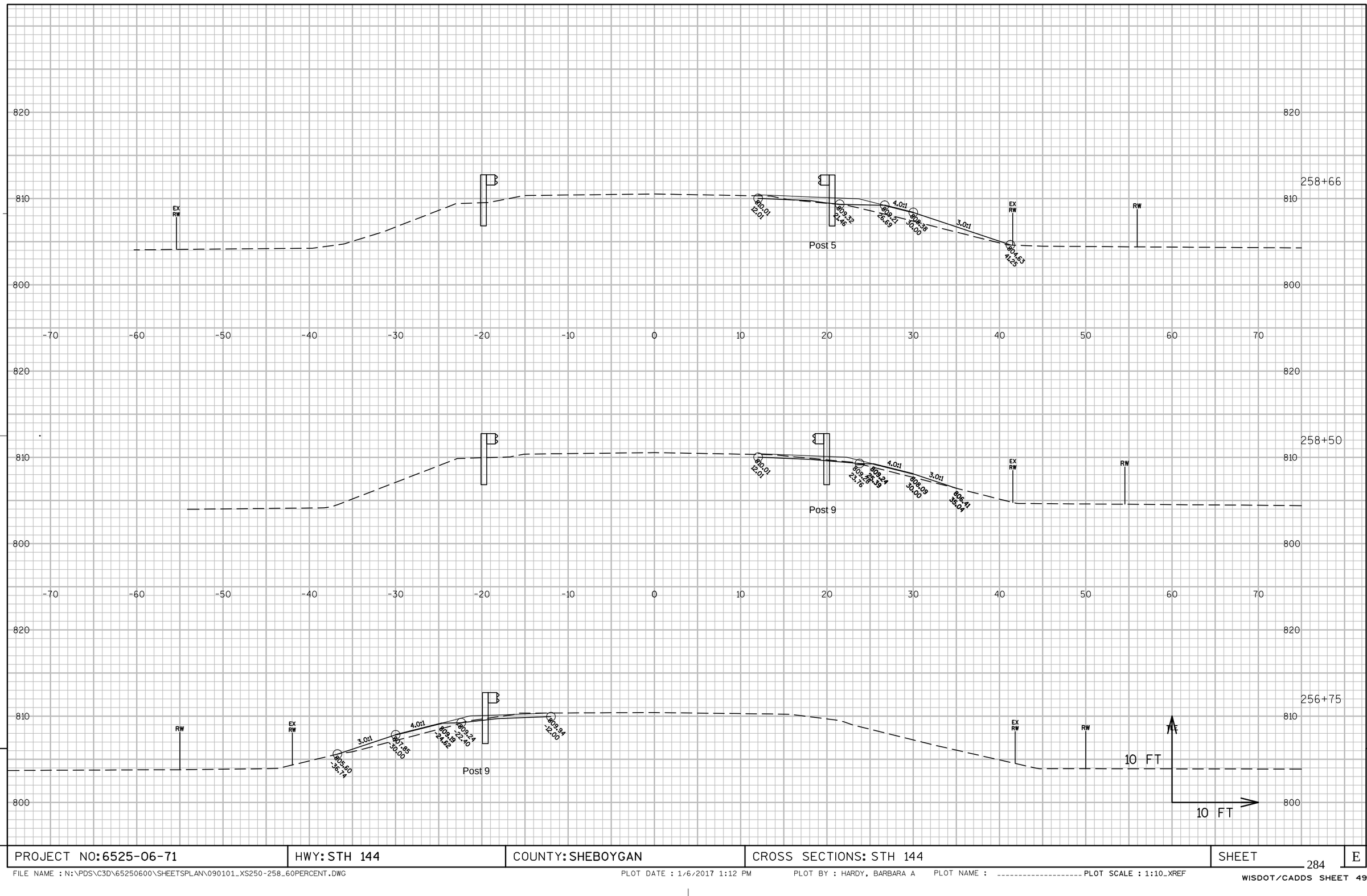
RW
EX RW
TLE
3.0:1
4.0:1
804.01 -42.75
808.86 -30.00
809.09 -25.86
809.22 -20.53
809.89 -12.00
256+49
Post 5
804.01 -43.79
808.96 -28.58
808.61 -30.00
809.15 -19.38
809.79 -12.01
256+24
Post 1
809.44 17.79
809.30 24.60
807.95 30.06
804.13 41.45
Post 9
10 FT
9
PROJECT NO: 6525-06-71
HWY: STH 144
COUNTY: SHEBOYGAN
CROSS SECTIONS: STH 144
SHEET
283
E
FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS250-258_60PERCENT.DWG
PLOT DATE : 1/6/2017 1:12 PM
PLOT BY : HARDY, BARBARA A
PLOT NAME : ----------
PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



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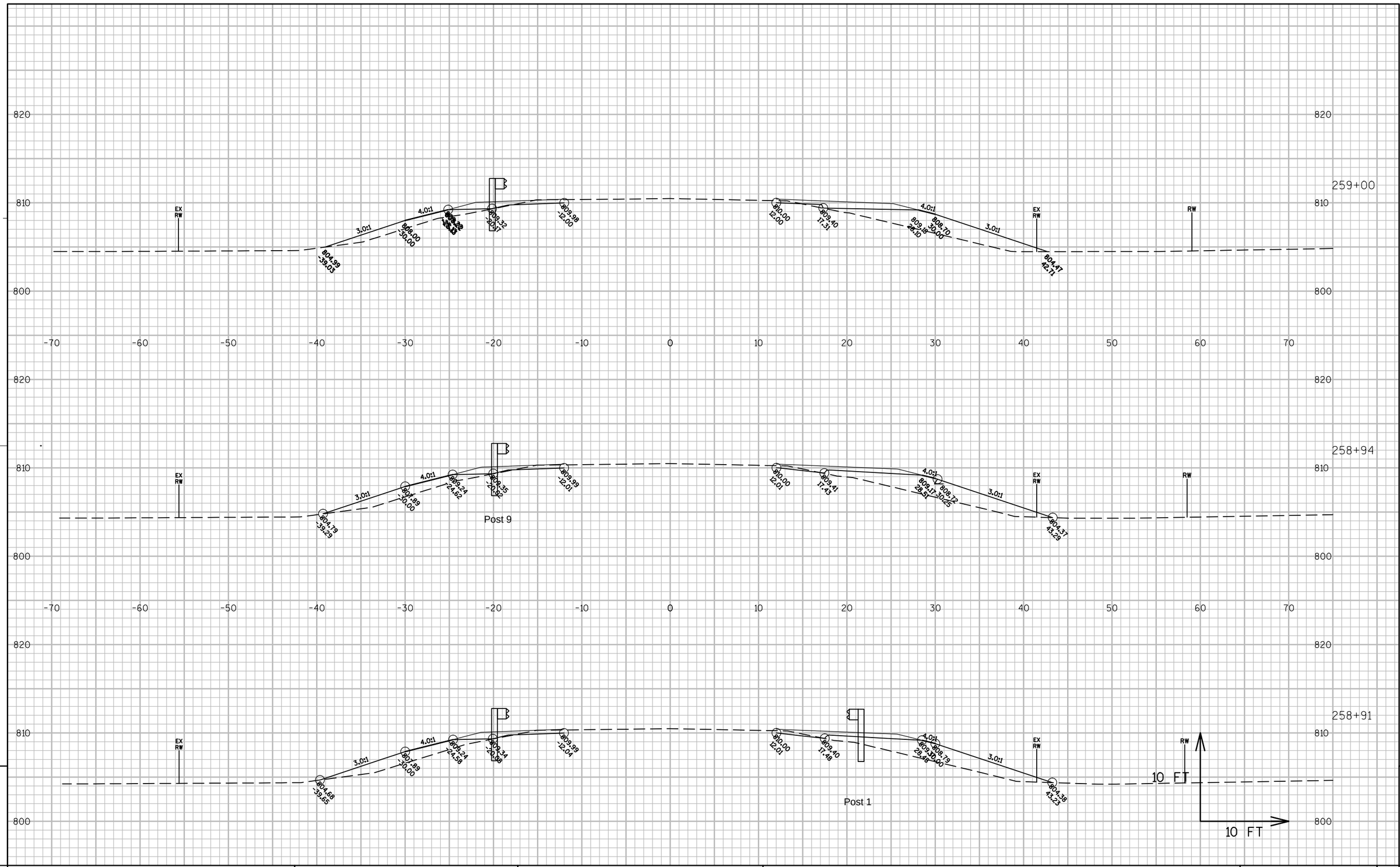

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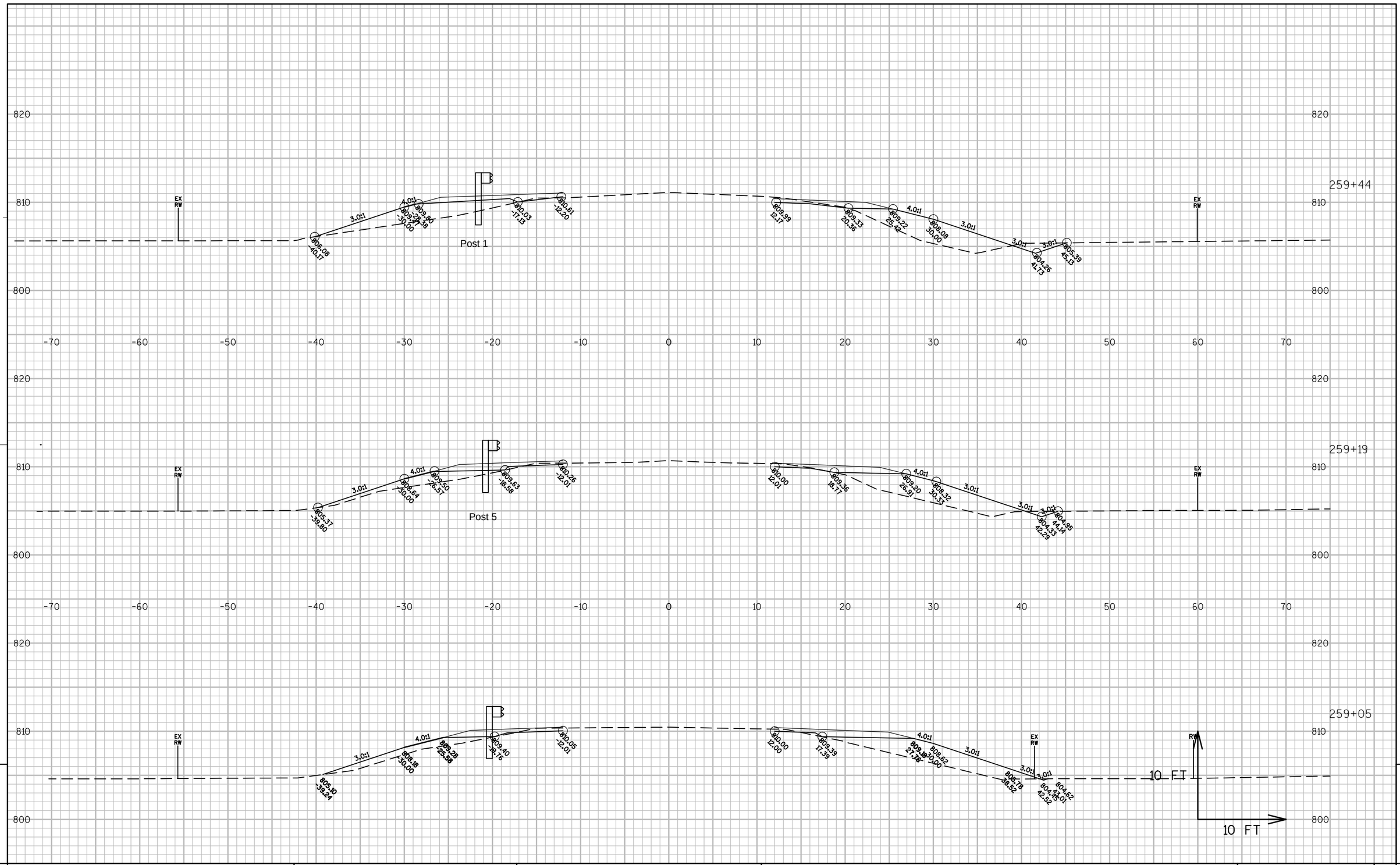
FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS250-258_60PERCENT.DWG PLOT DATE : 1/6/2017 1:12 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

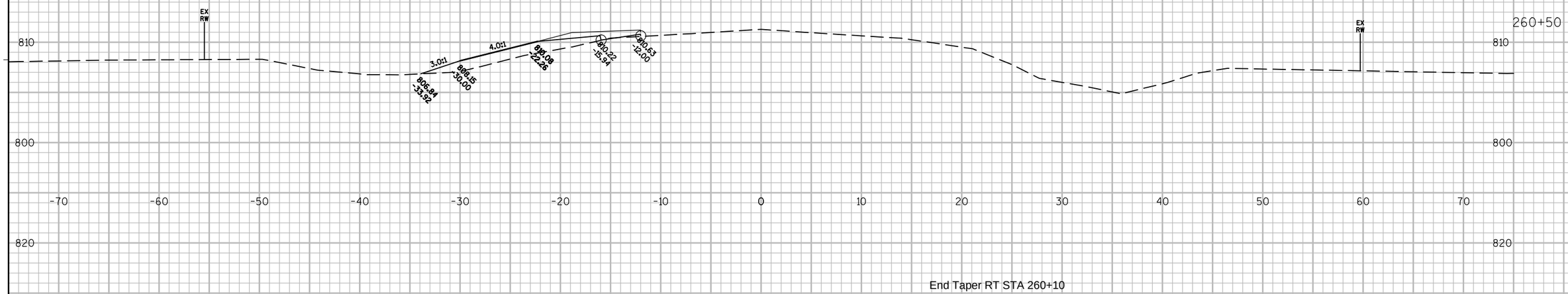


PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

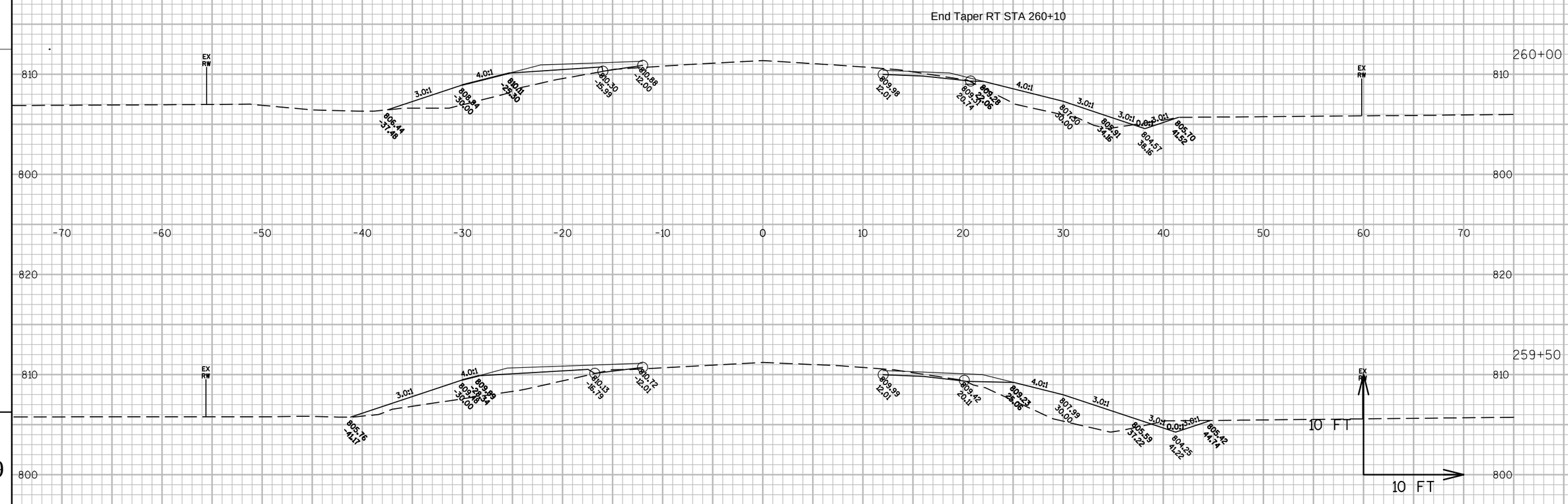
FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS250-258_60PERCENT.DWG PLOT DATE : 1/6/2017 1:12 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

End Taper LT STA 260+62



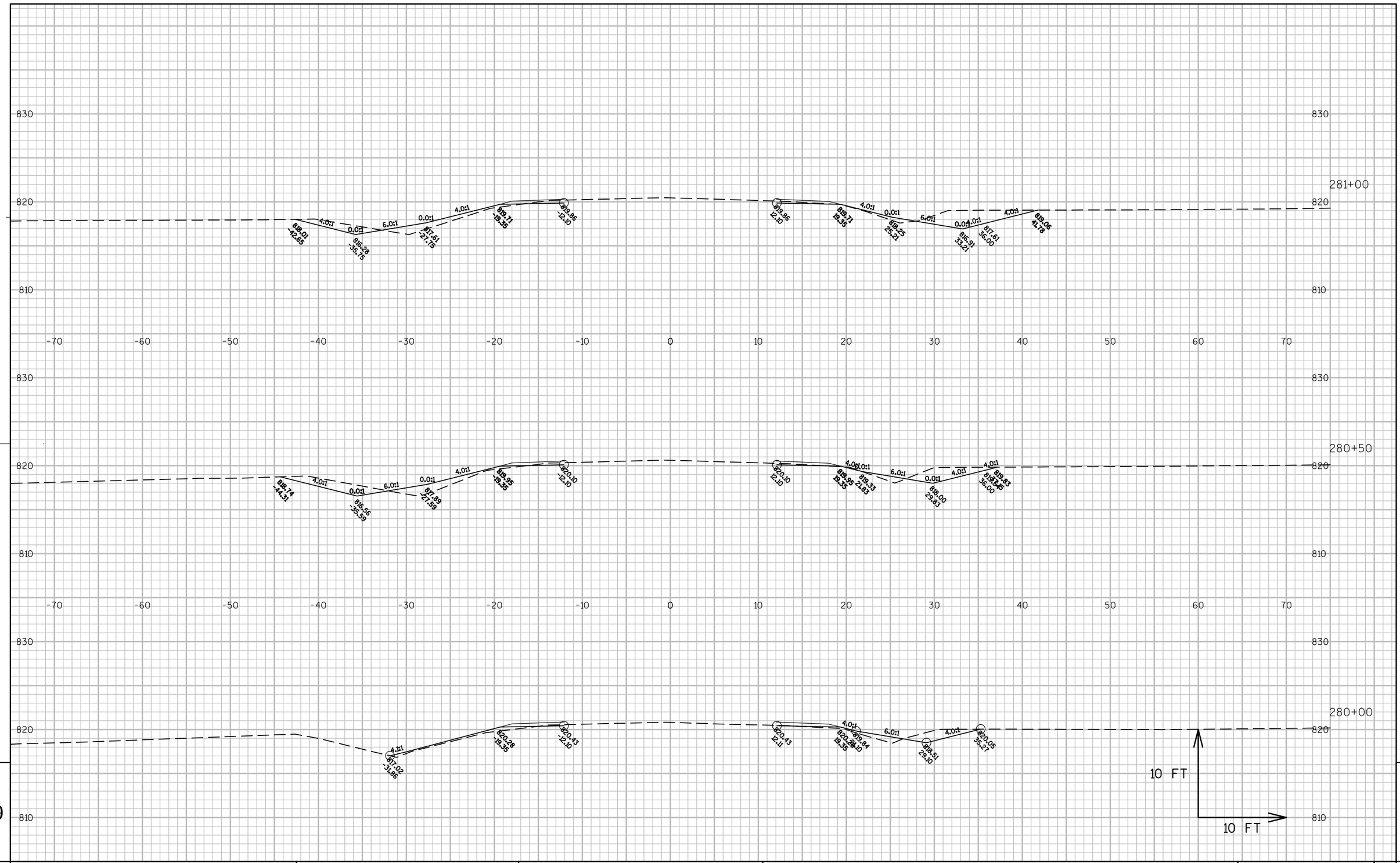
End Taper RT STA 260+10



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 287	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS250-258_60PERCENT.DWG PLOT DATE : 1/6/2017 1:12 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 288	E

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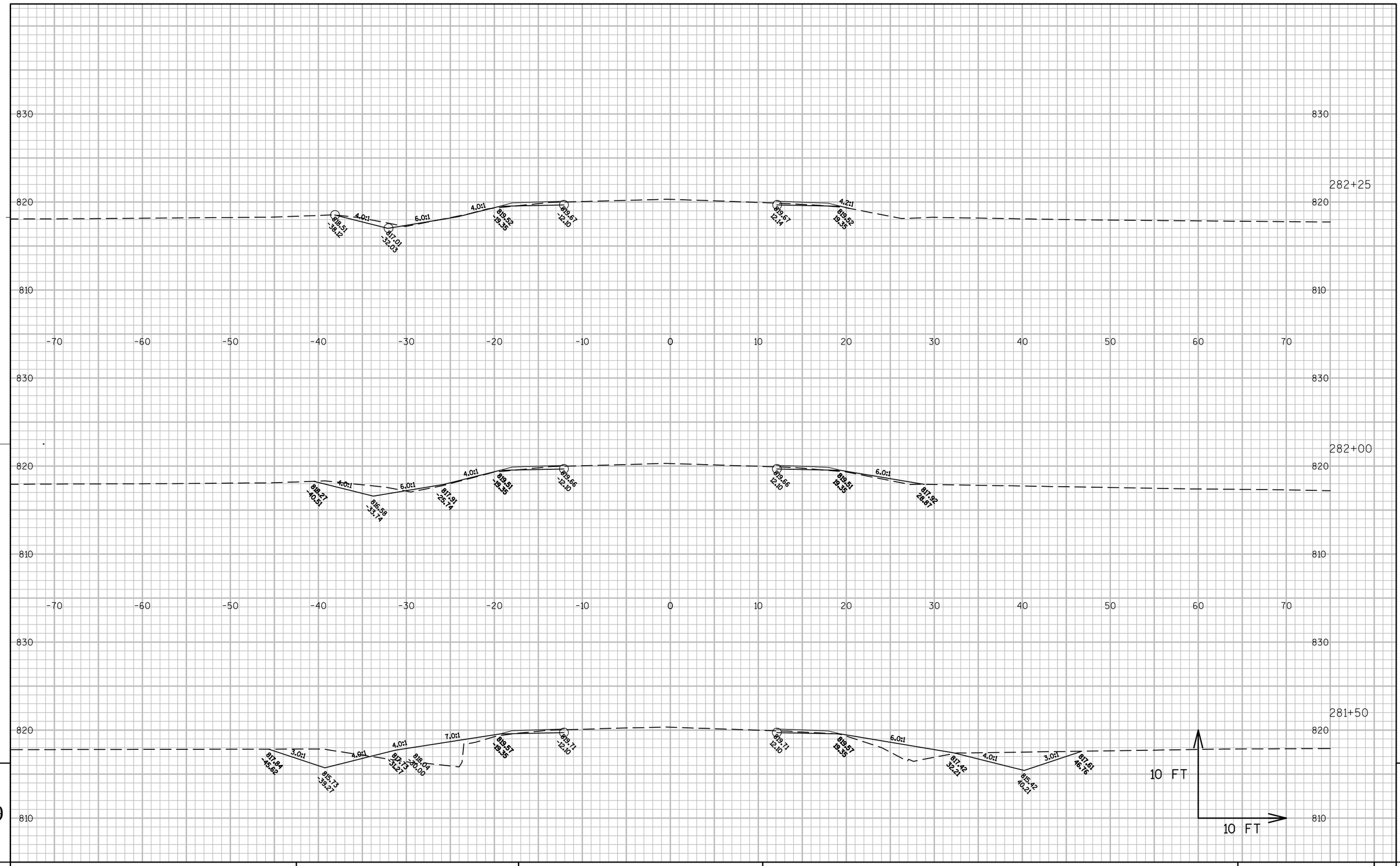
FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS281.DWG PLOT DATE : 10/15/2016 3:54 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1 IN:10 FT

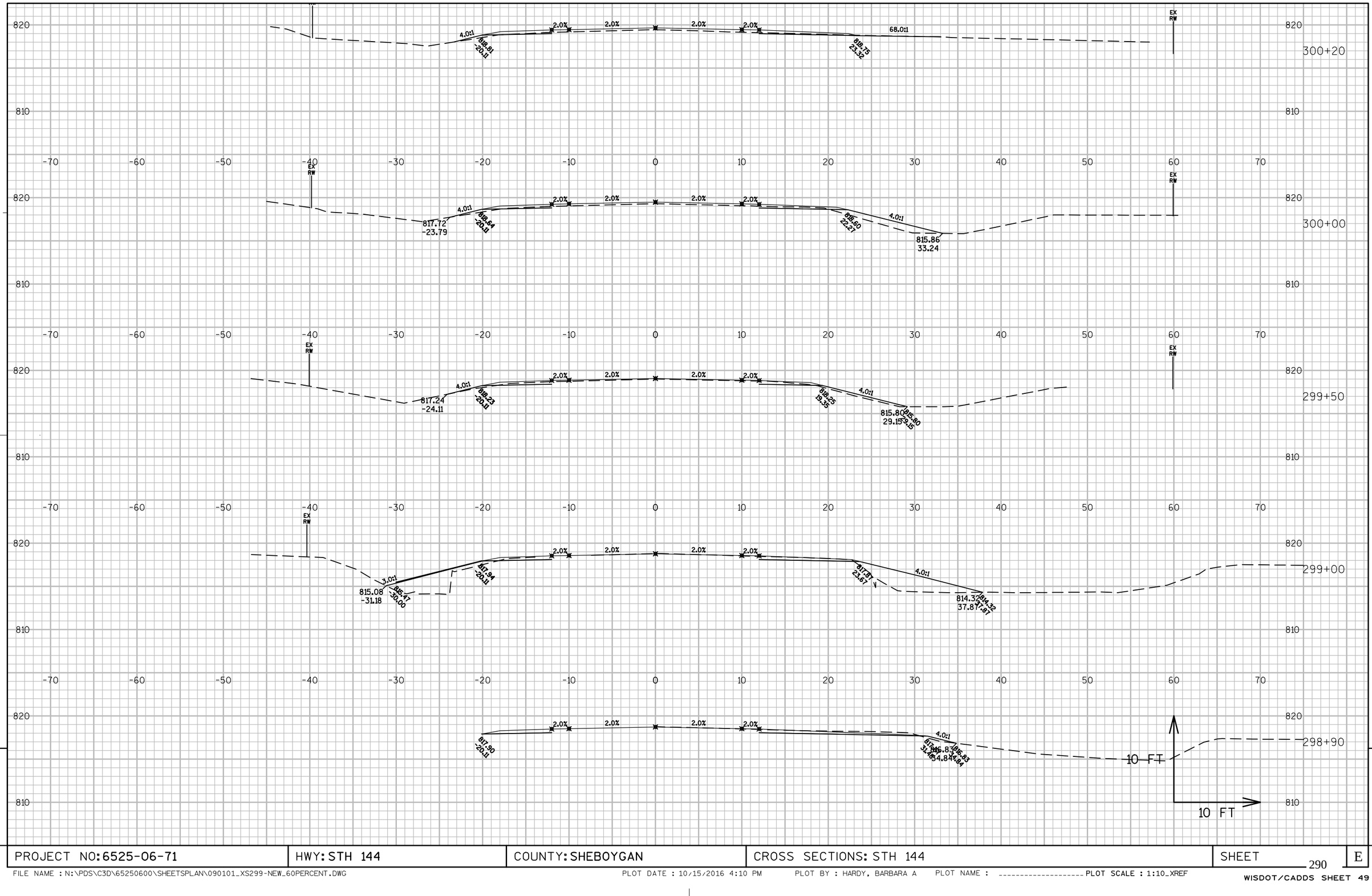
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 289	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS281.DWG PLOT DATE : 10/15/2016 3:54 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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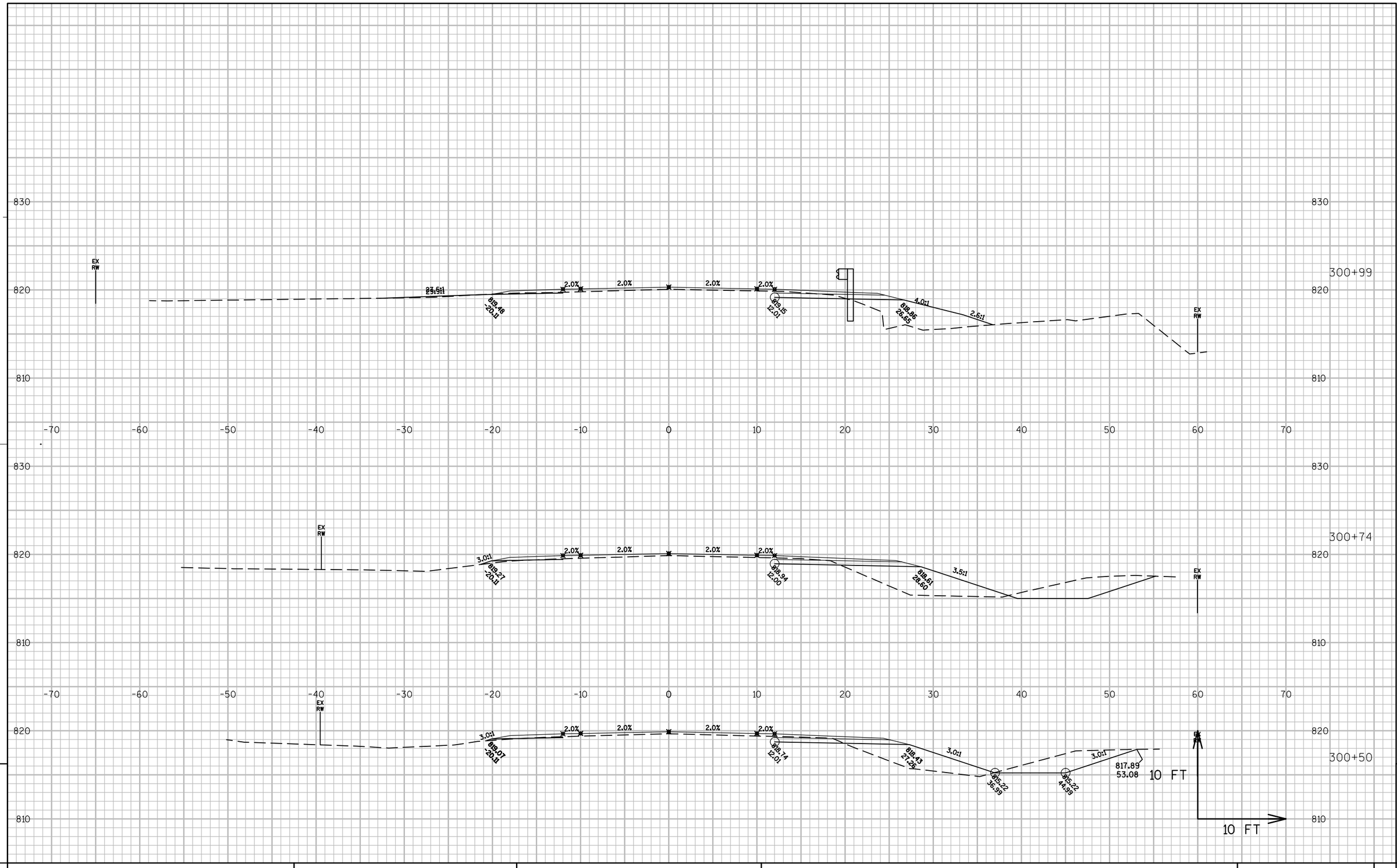
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 290	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS299-NEW_60PERCENT.DWG PLOT DATE : 10/15/2016 4:10 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

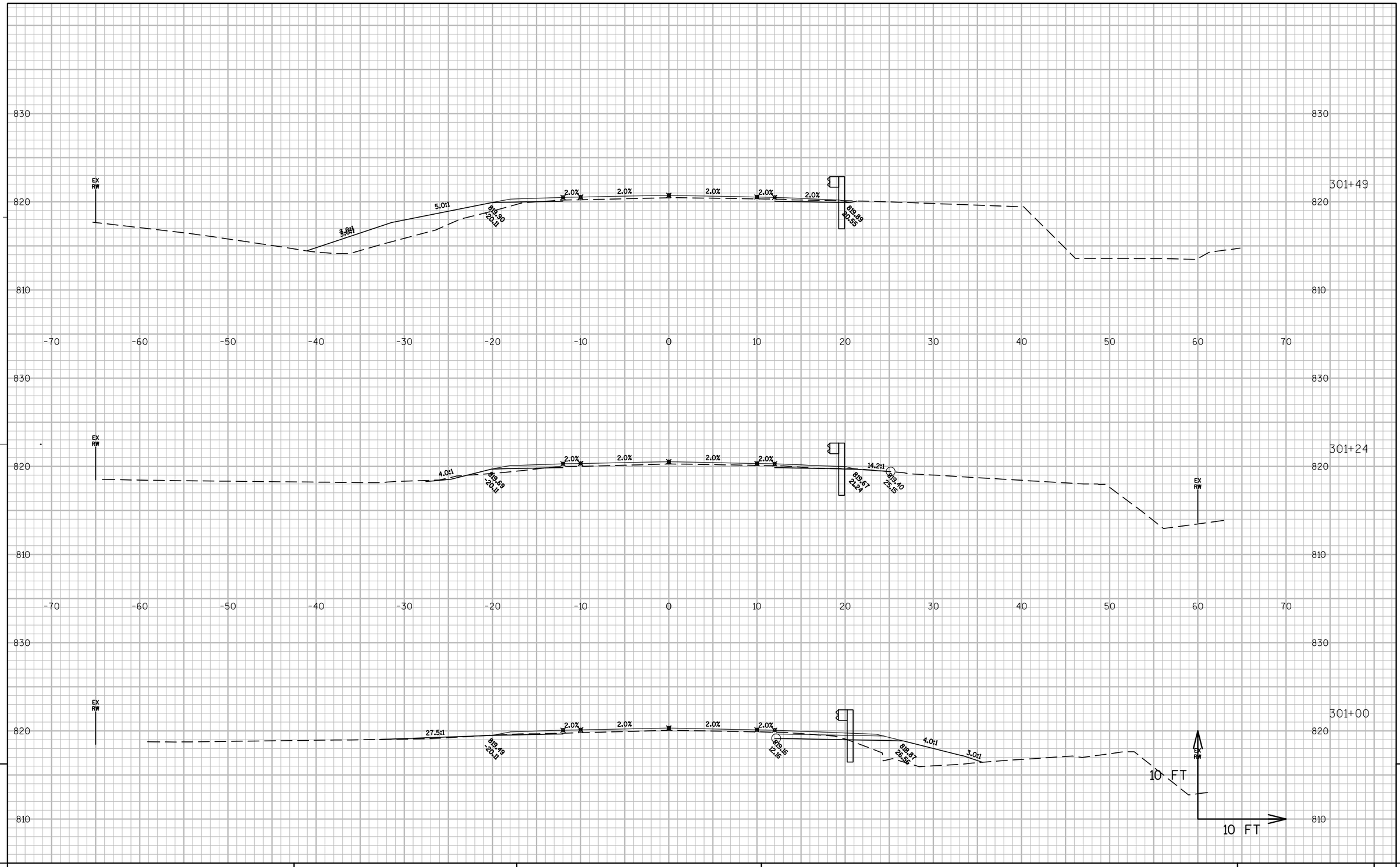
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS299-NEW_60PERCENT.DWG PLOT DATE : 10/15/2016 4:10 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

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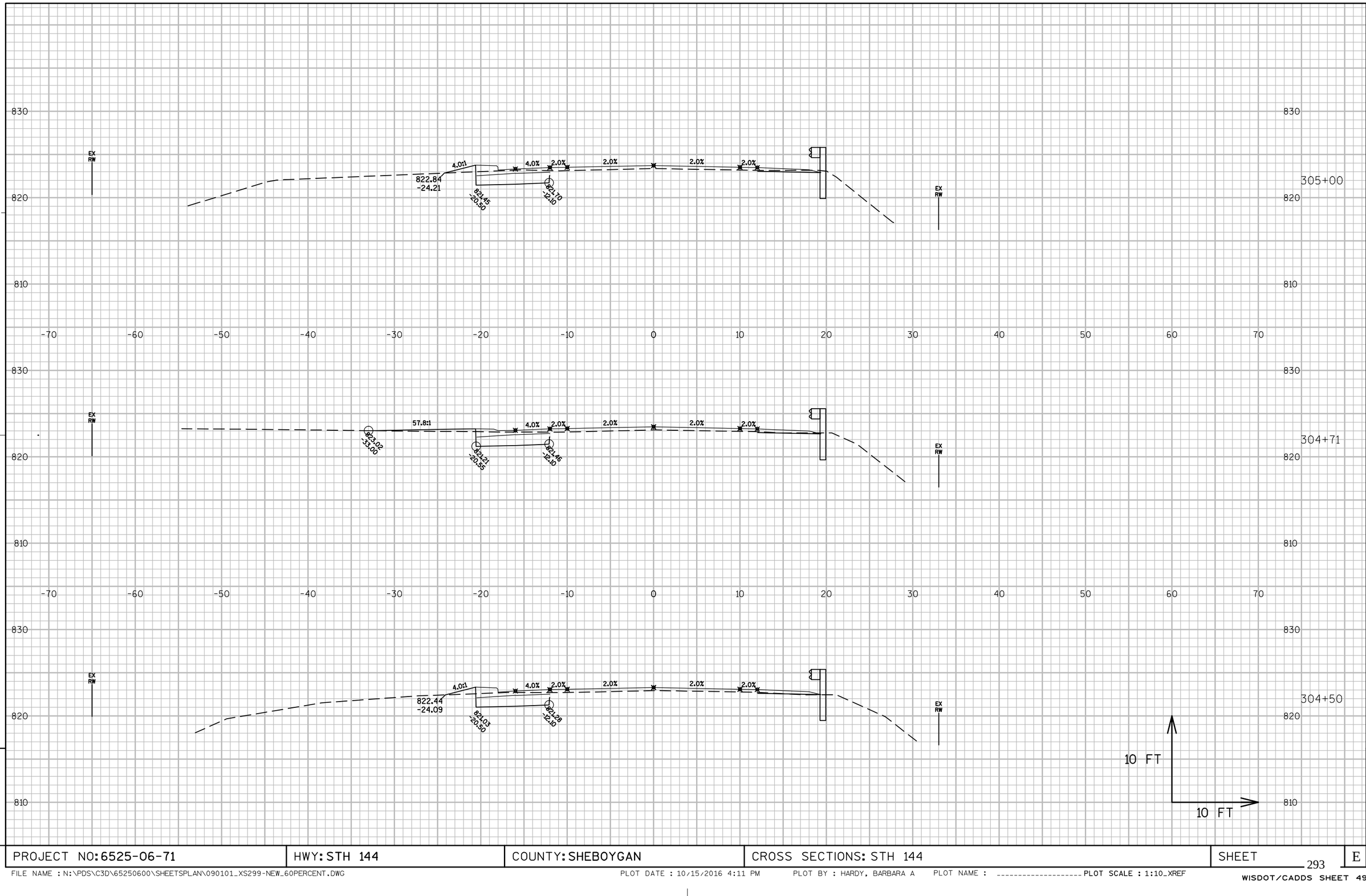
WISDOT/CADDS SHEET 49



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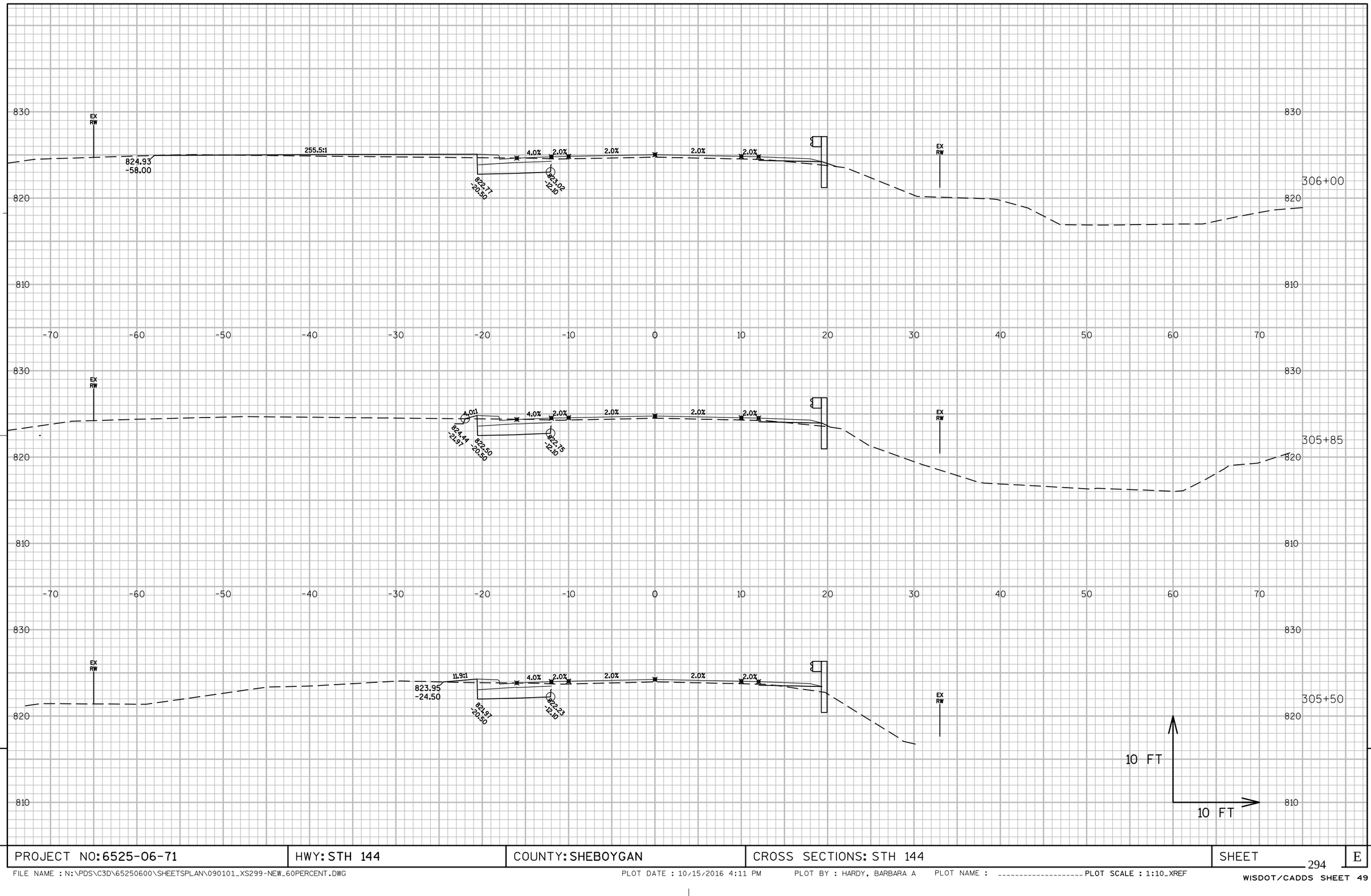
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 293	E

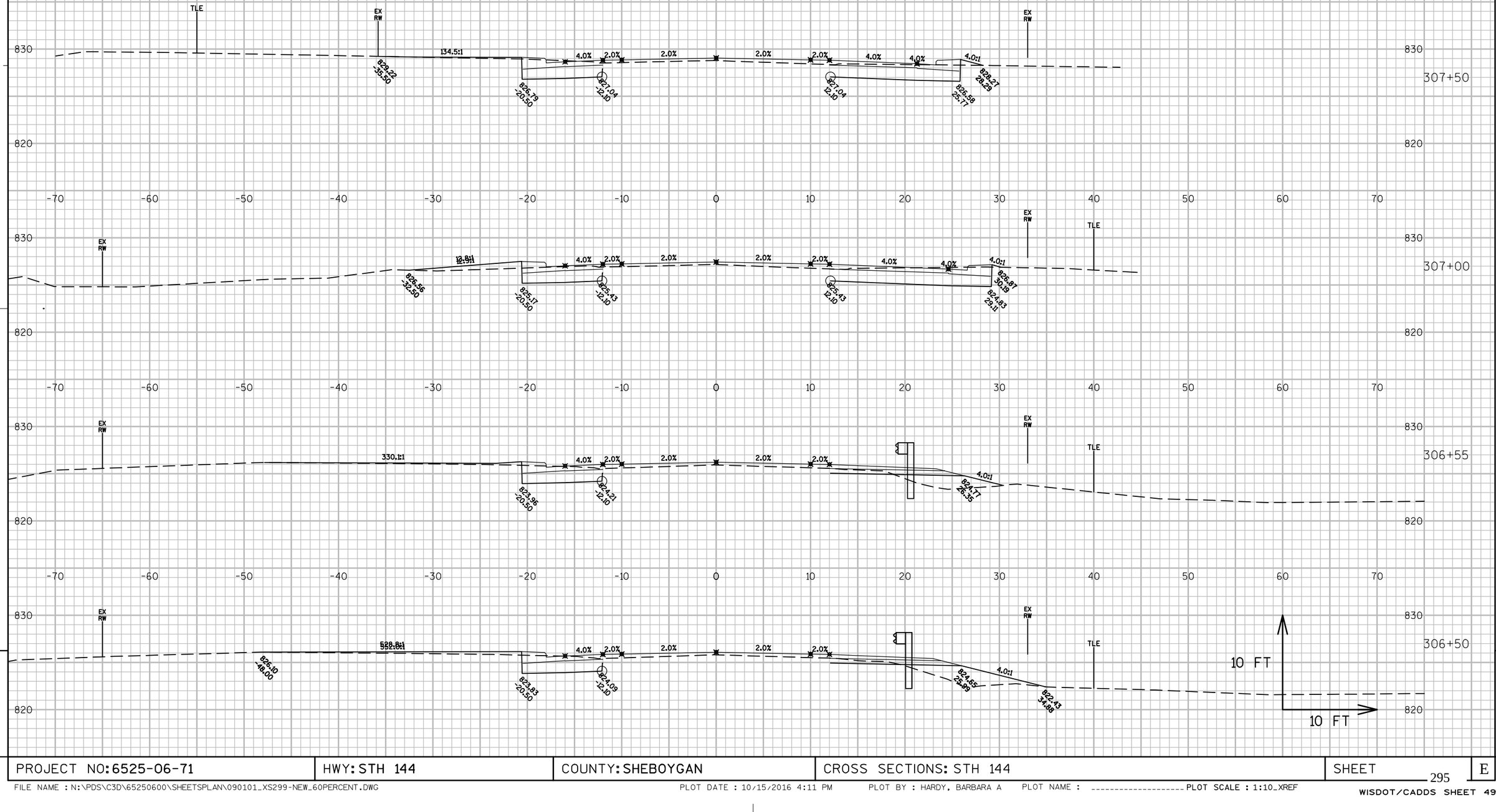
9



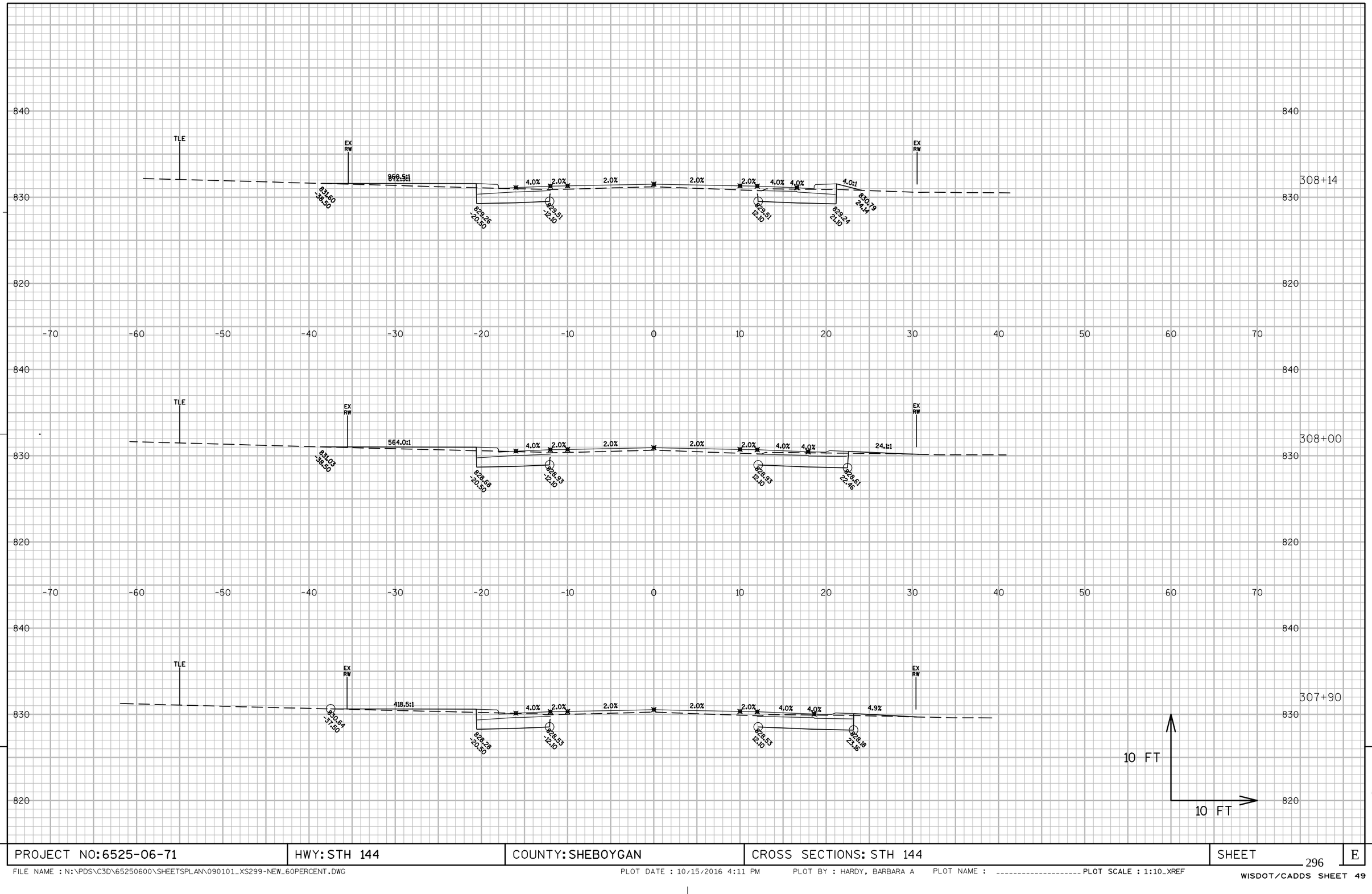
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 294	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS299-NEW_60PERCENT.DWG PLOT DATE : 10/15/2016 4:11 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

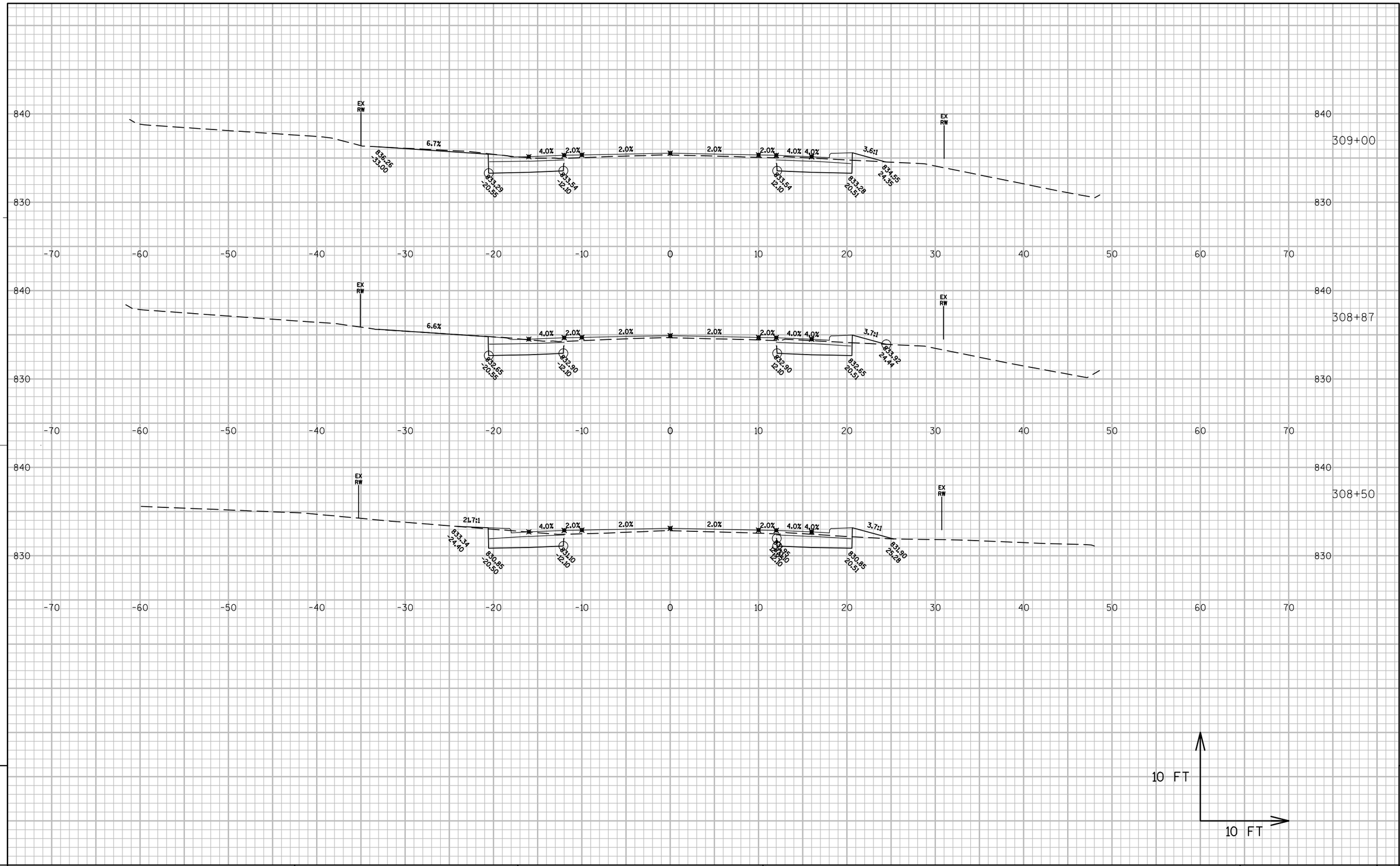
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 295	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 296	E



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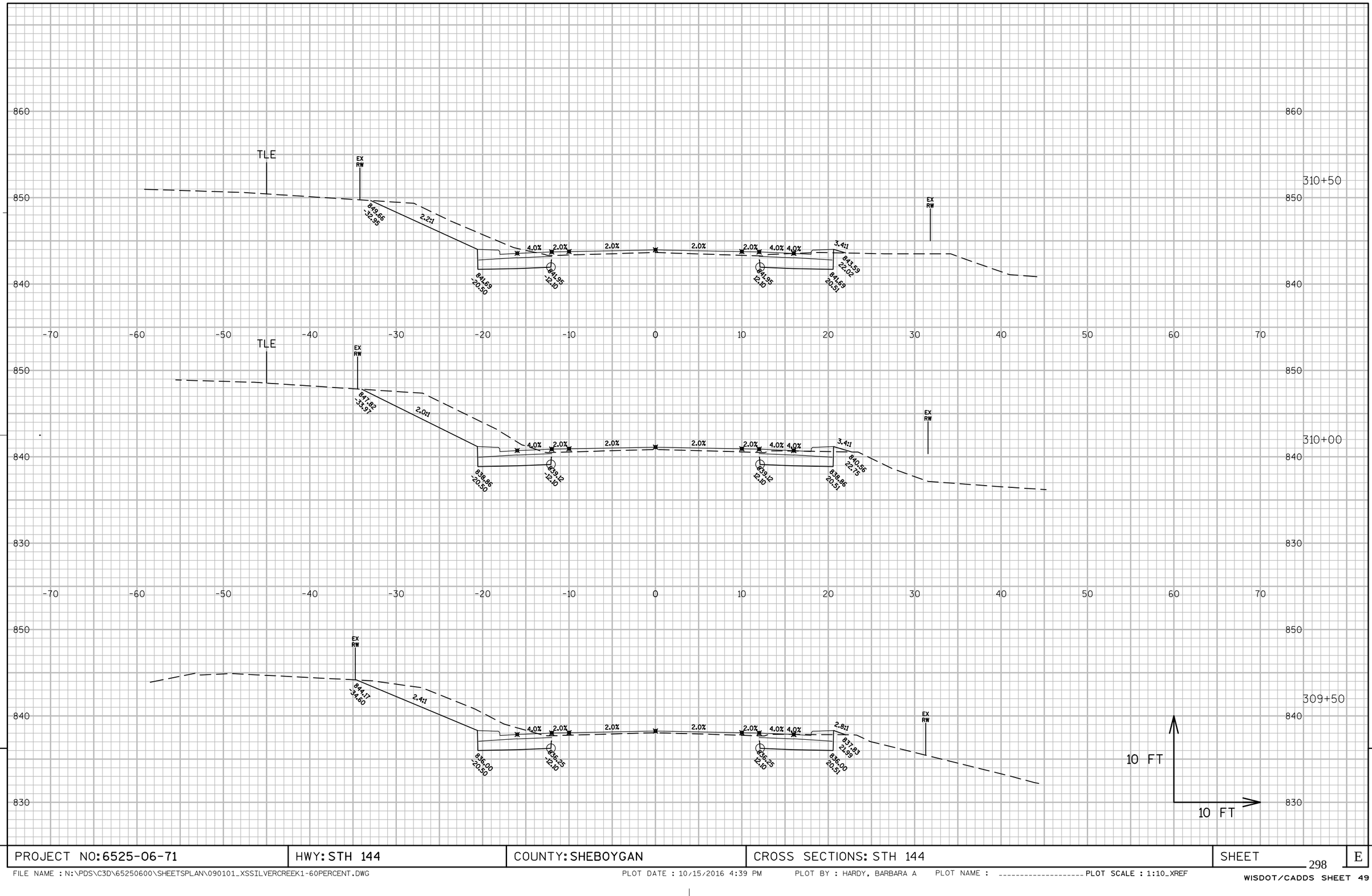
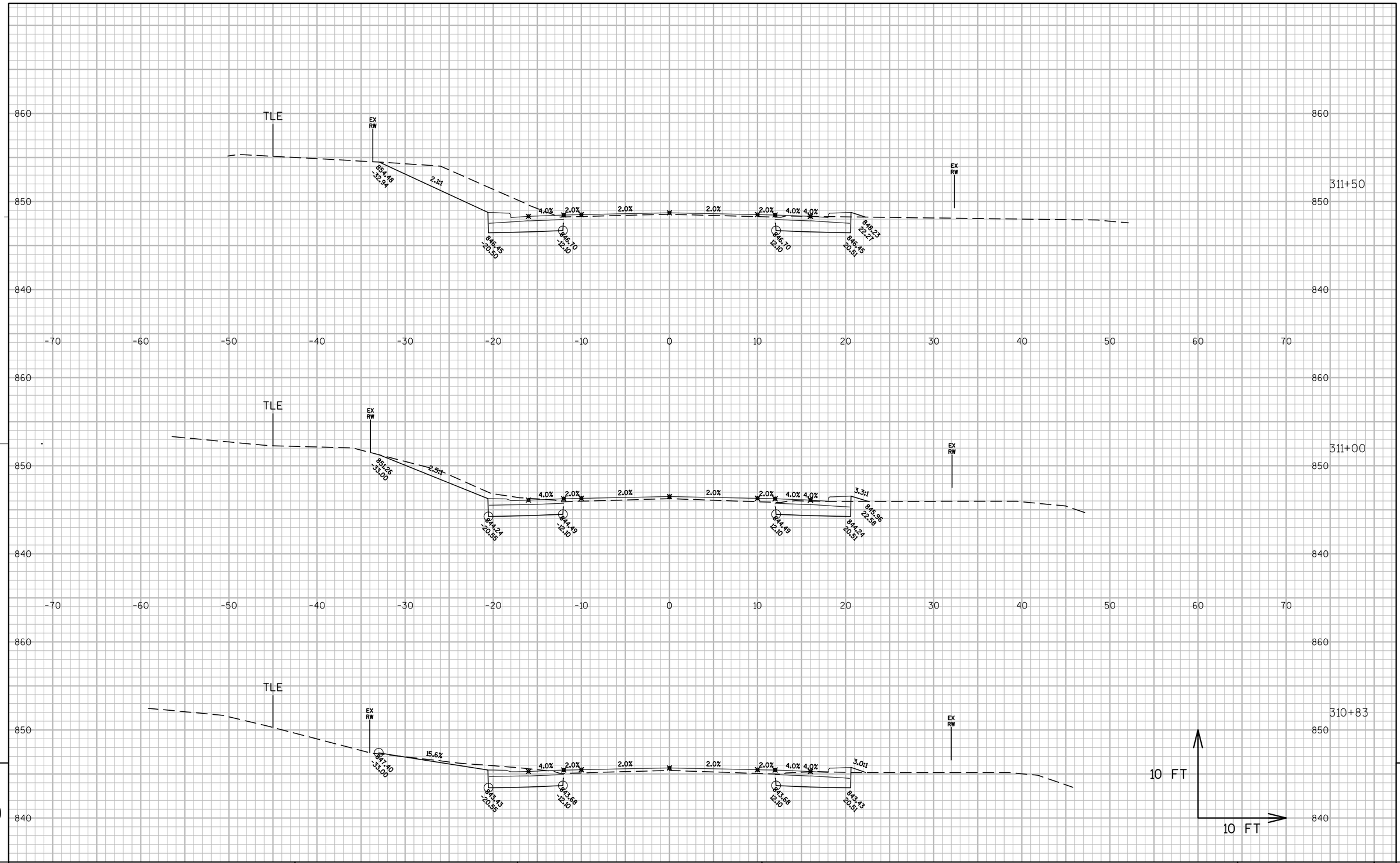
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 297	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 298	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:39 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

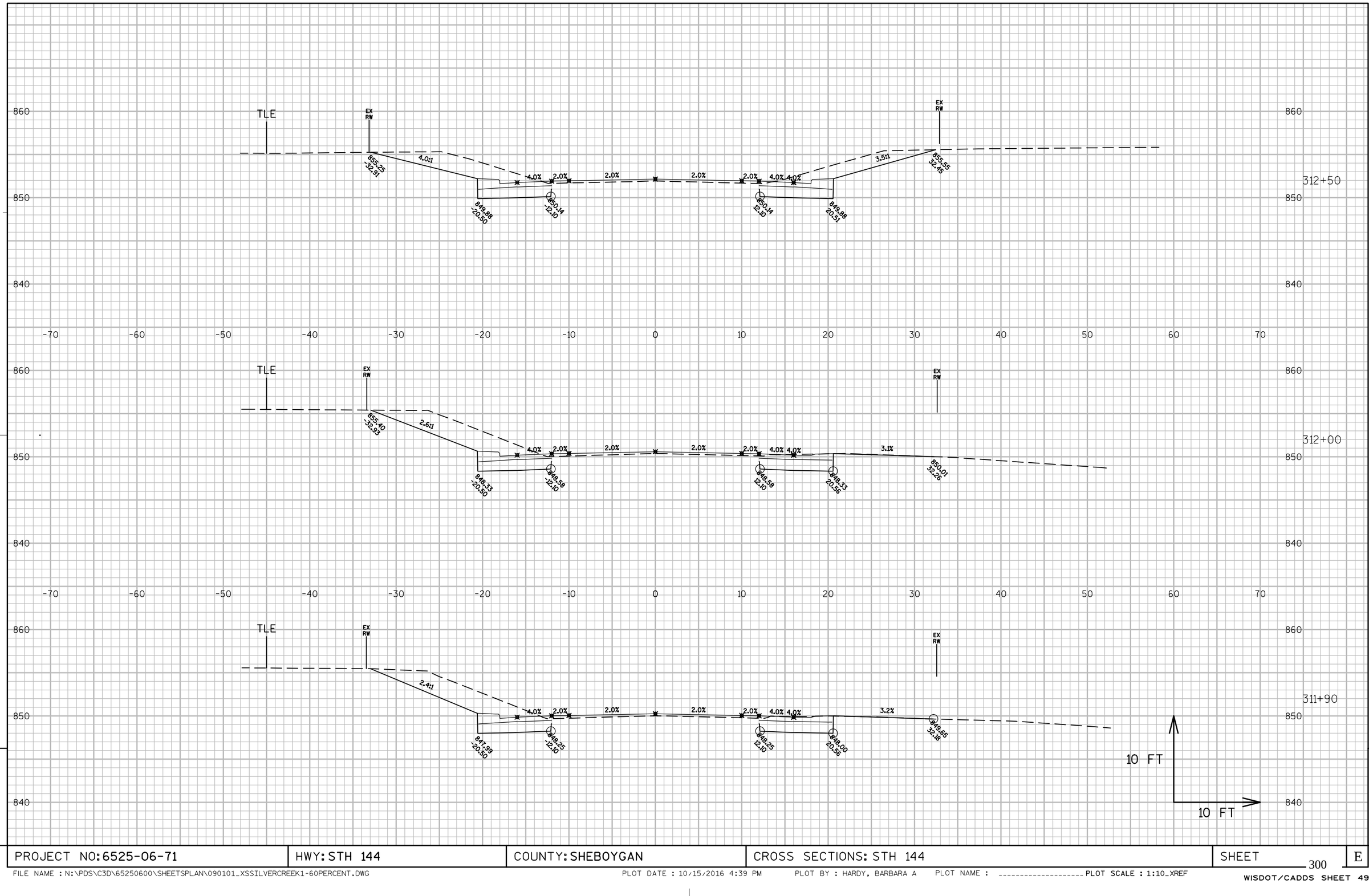
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 299	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:39 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

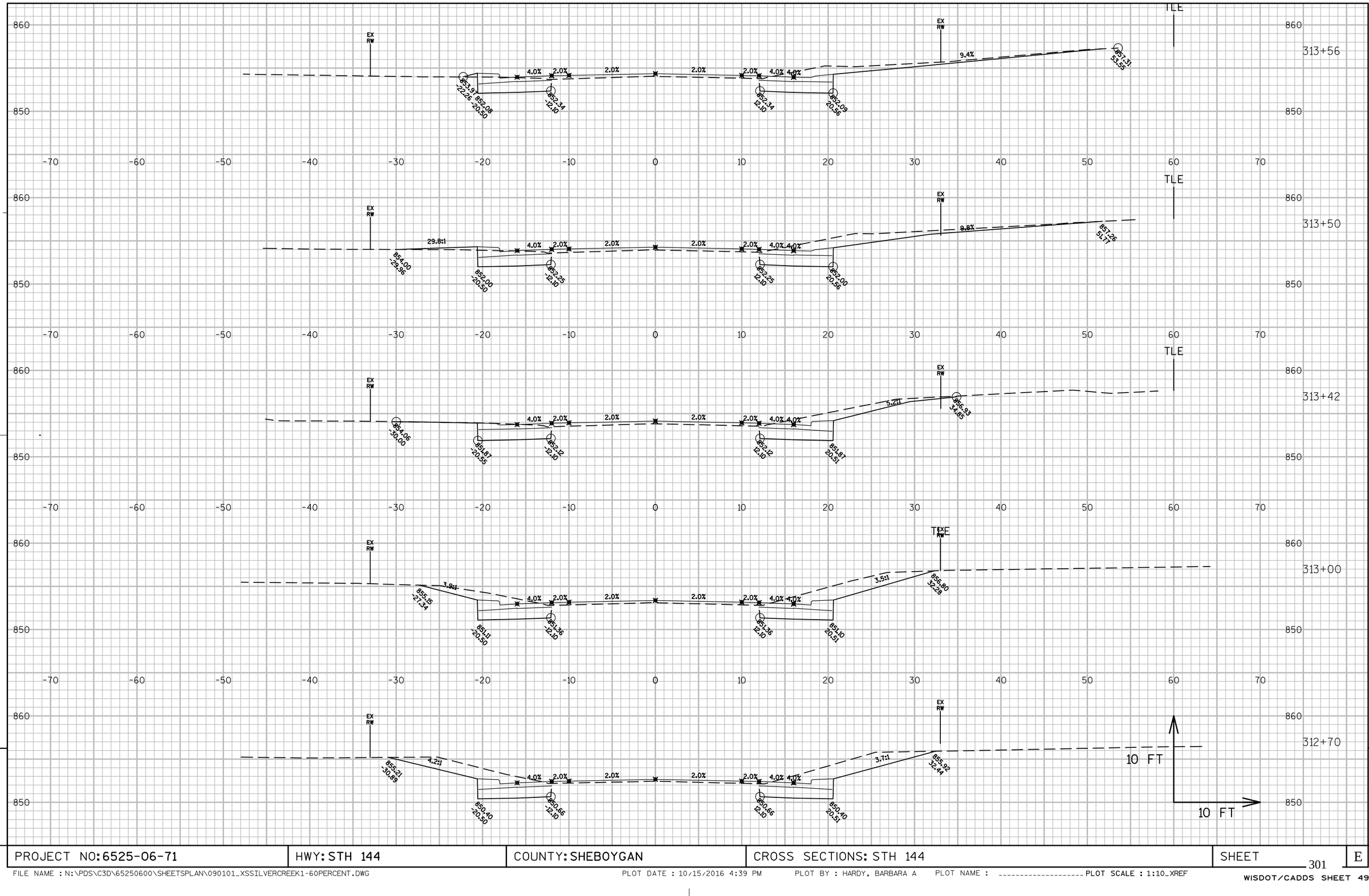
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 300	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:39 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

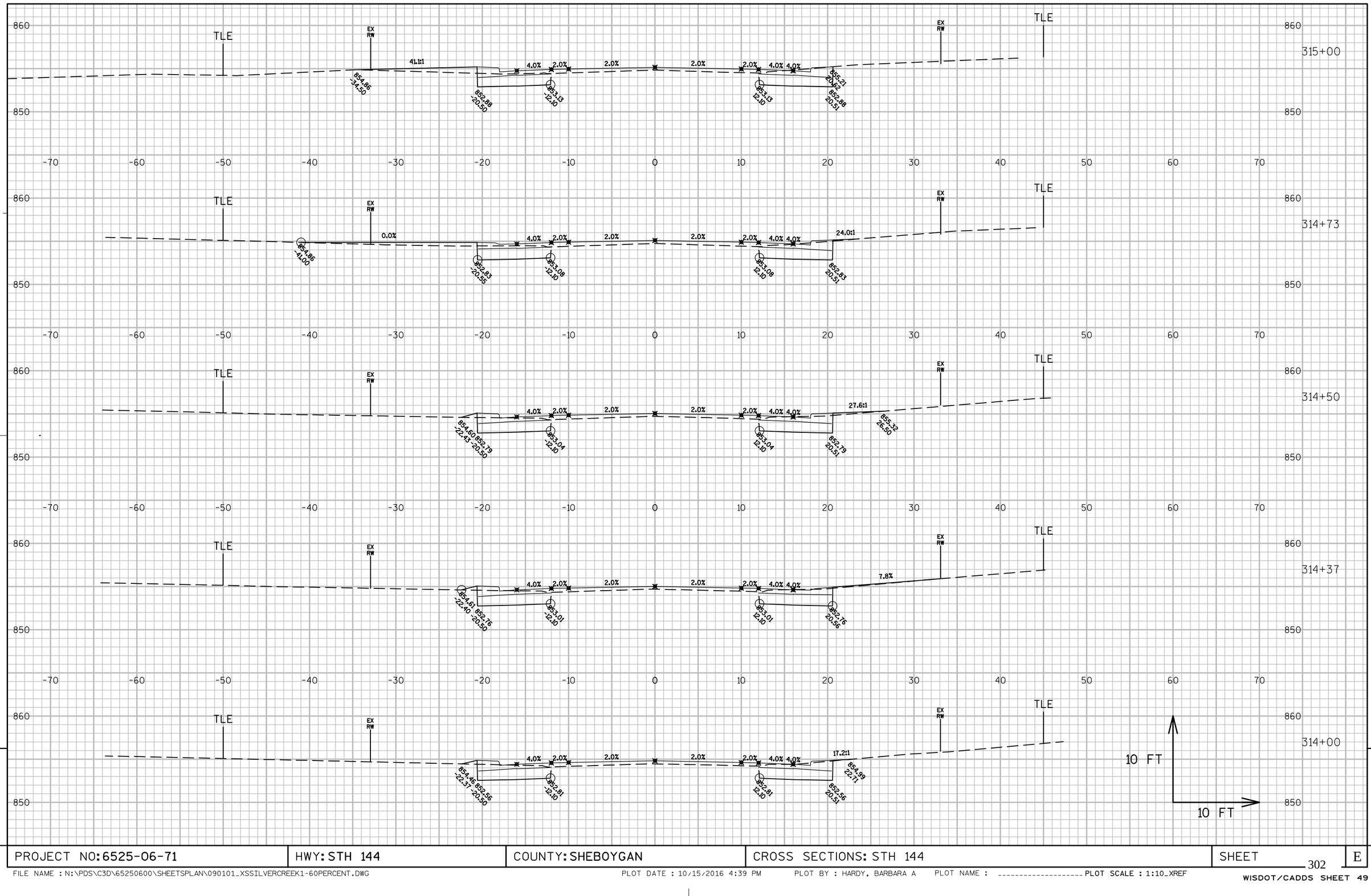
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 301	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:39 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 302	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:39 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

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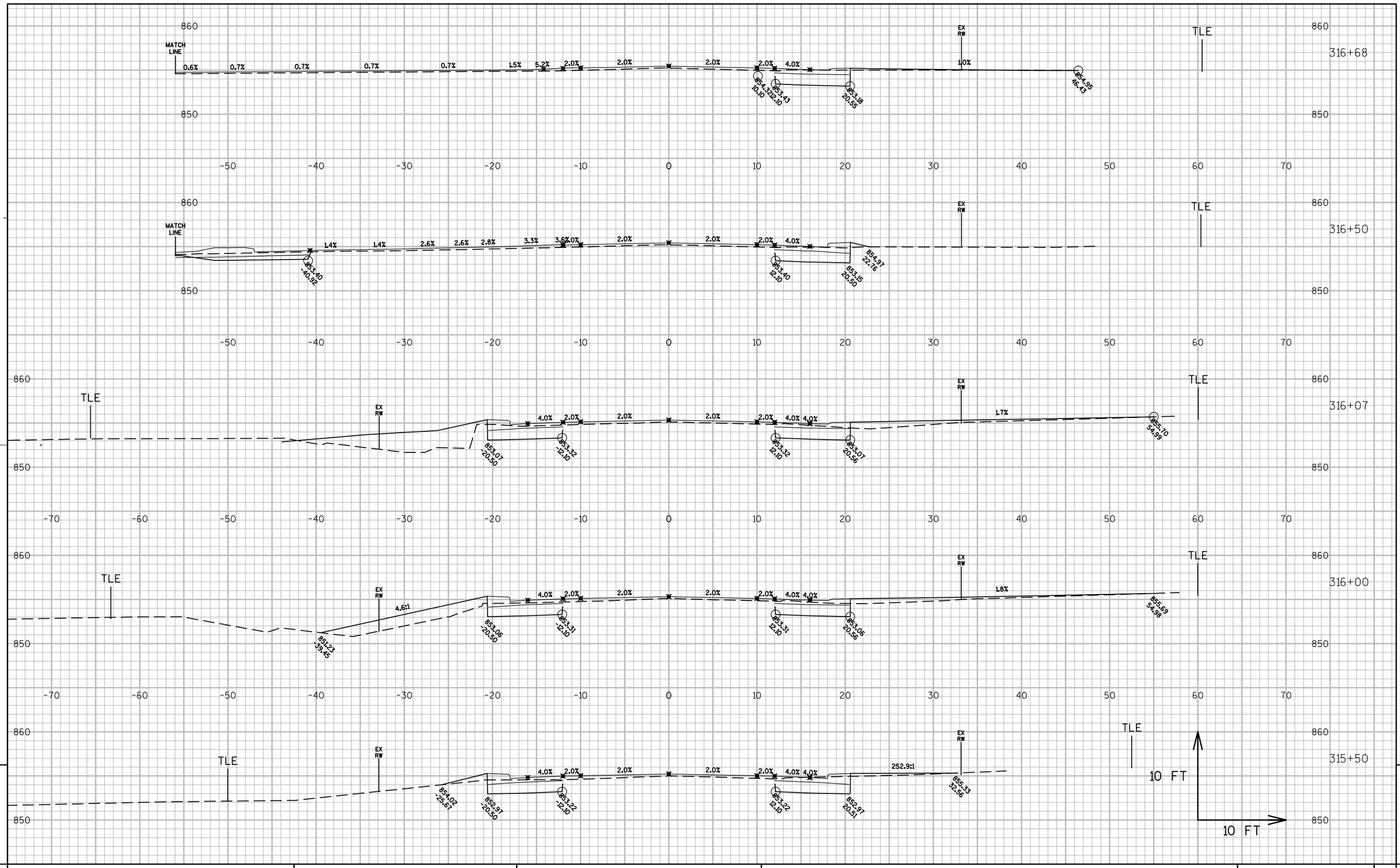
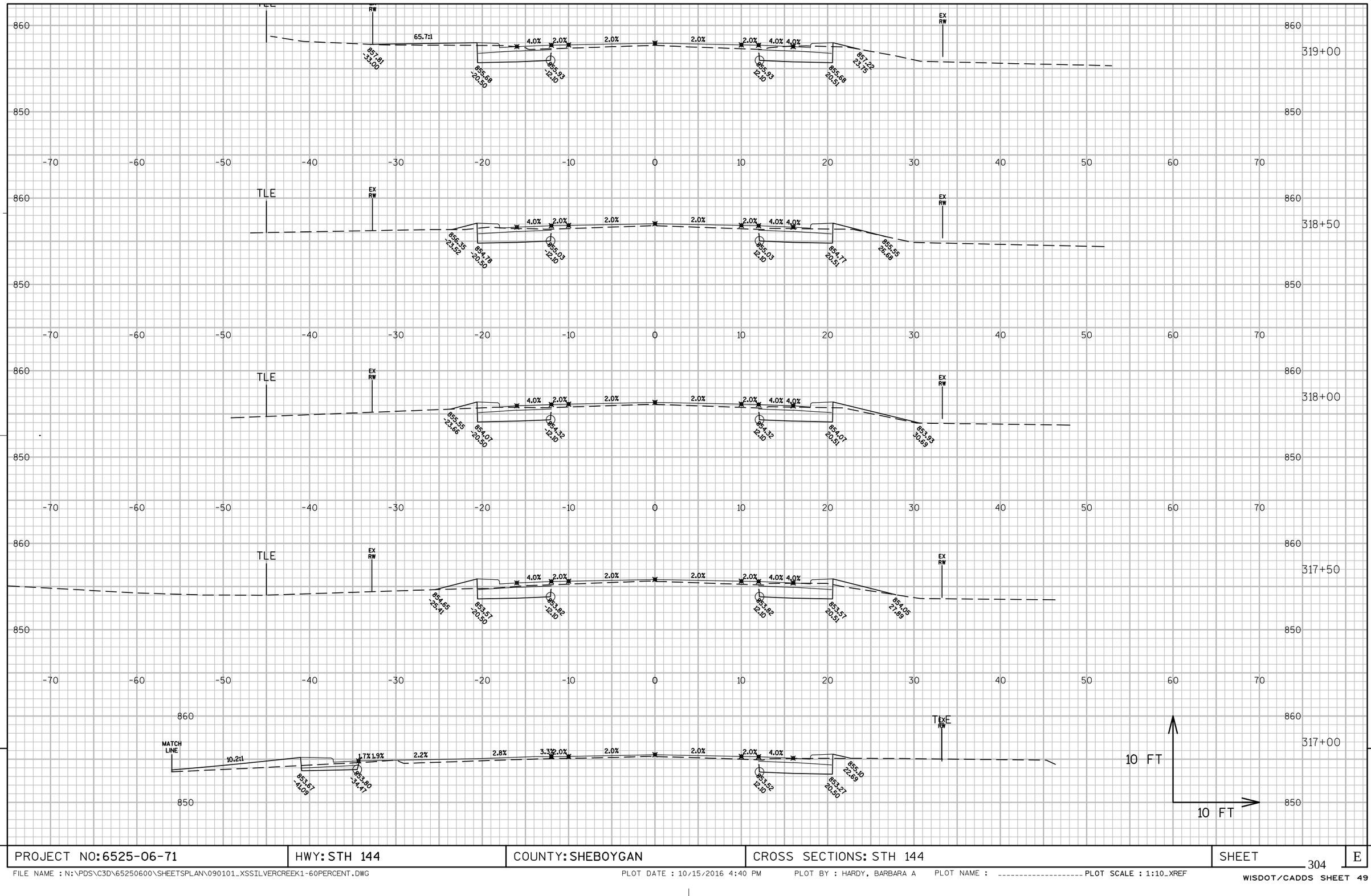
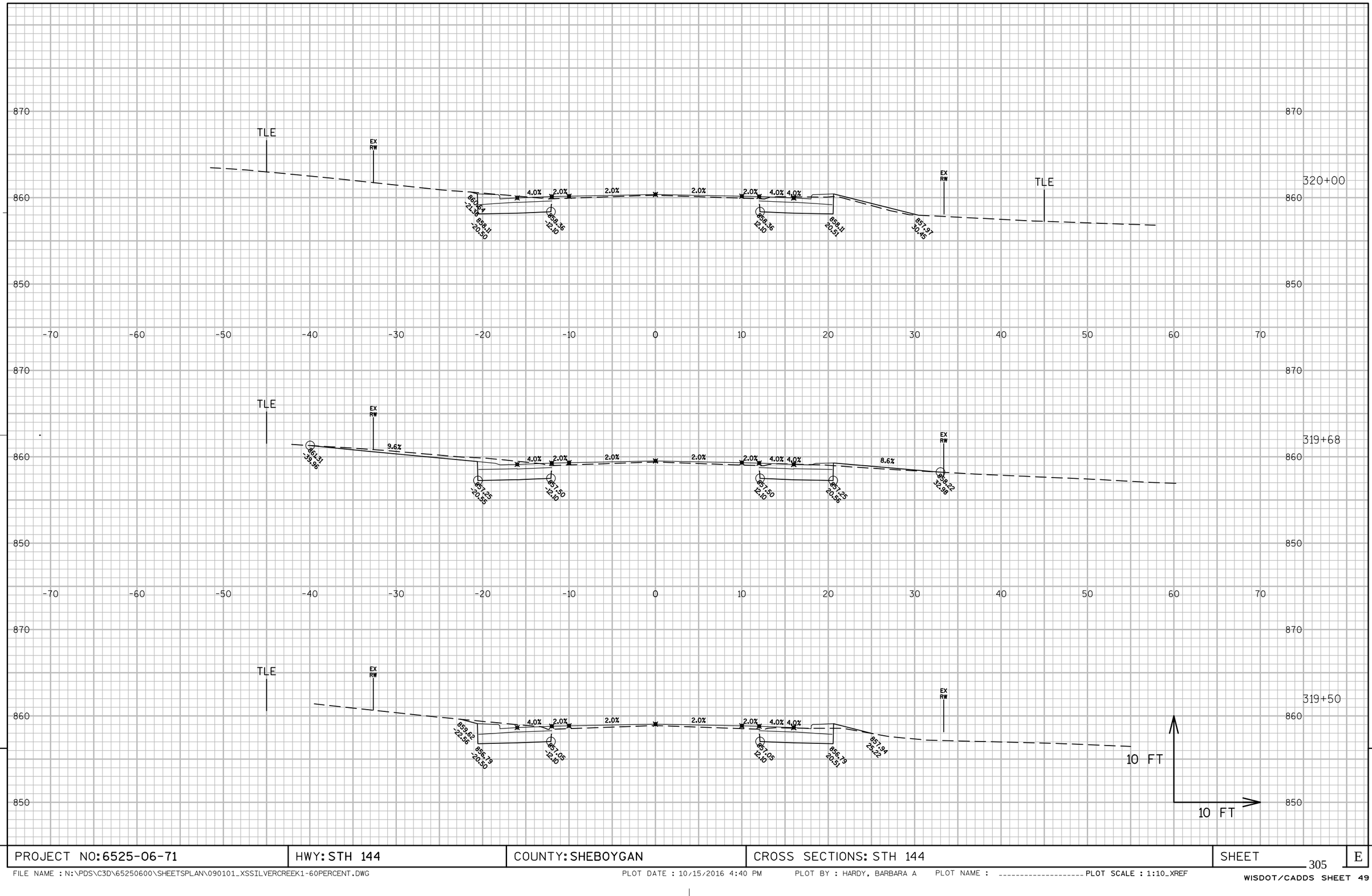


PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 303	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 304	E

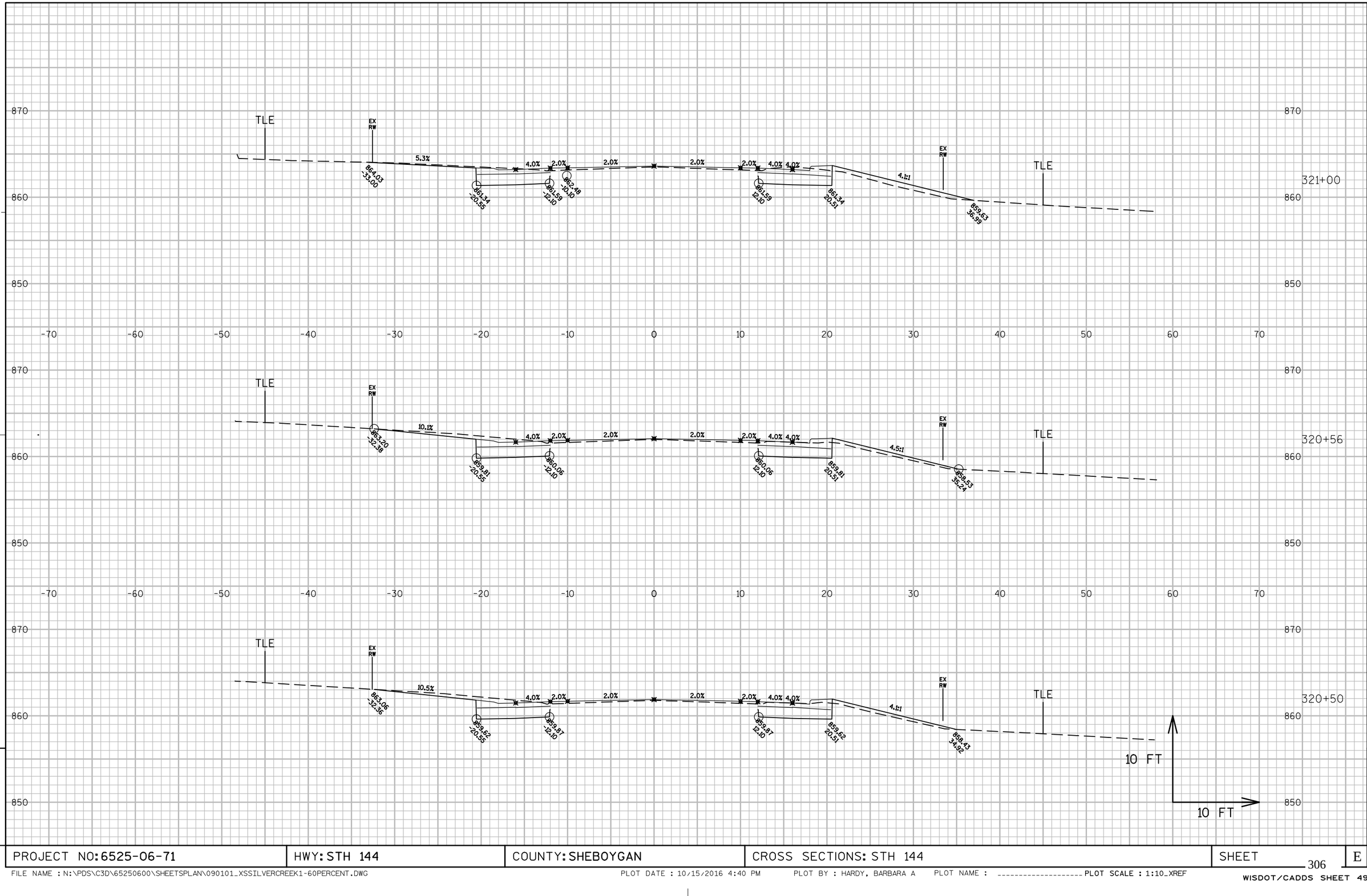
FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:40 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 305	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:40 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

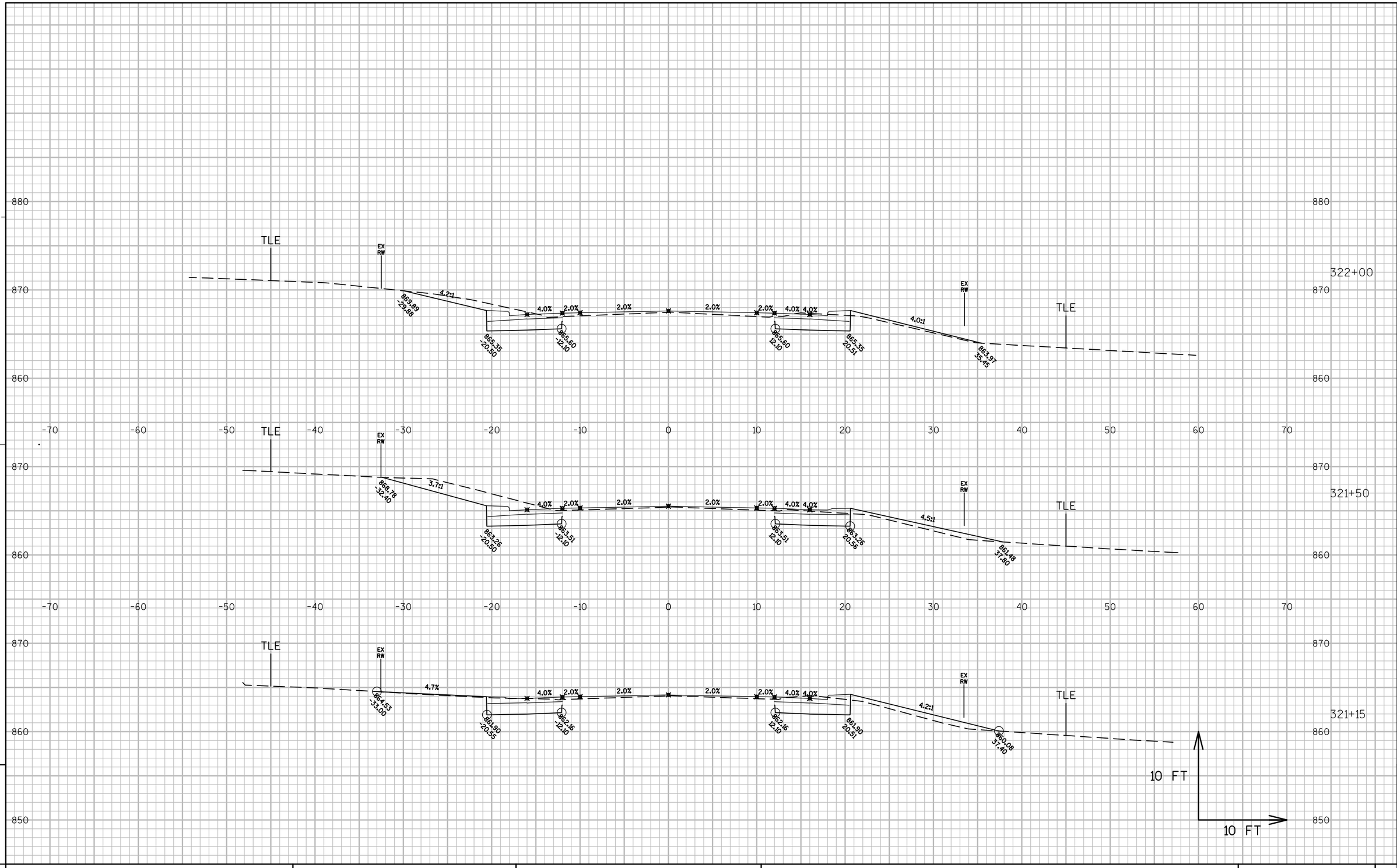
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:40 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

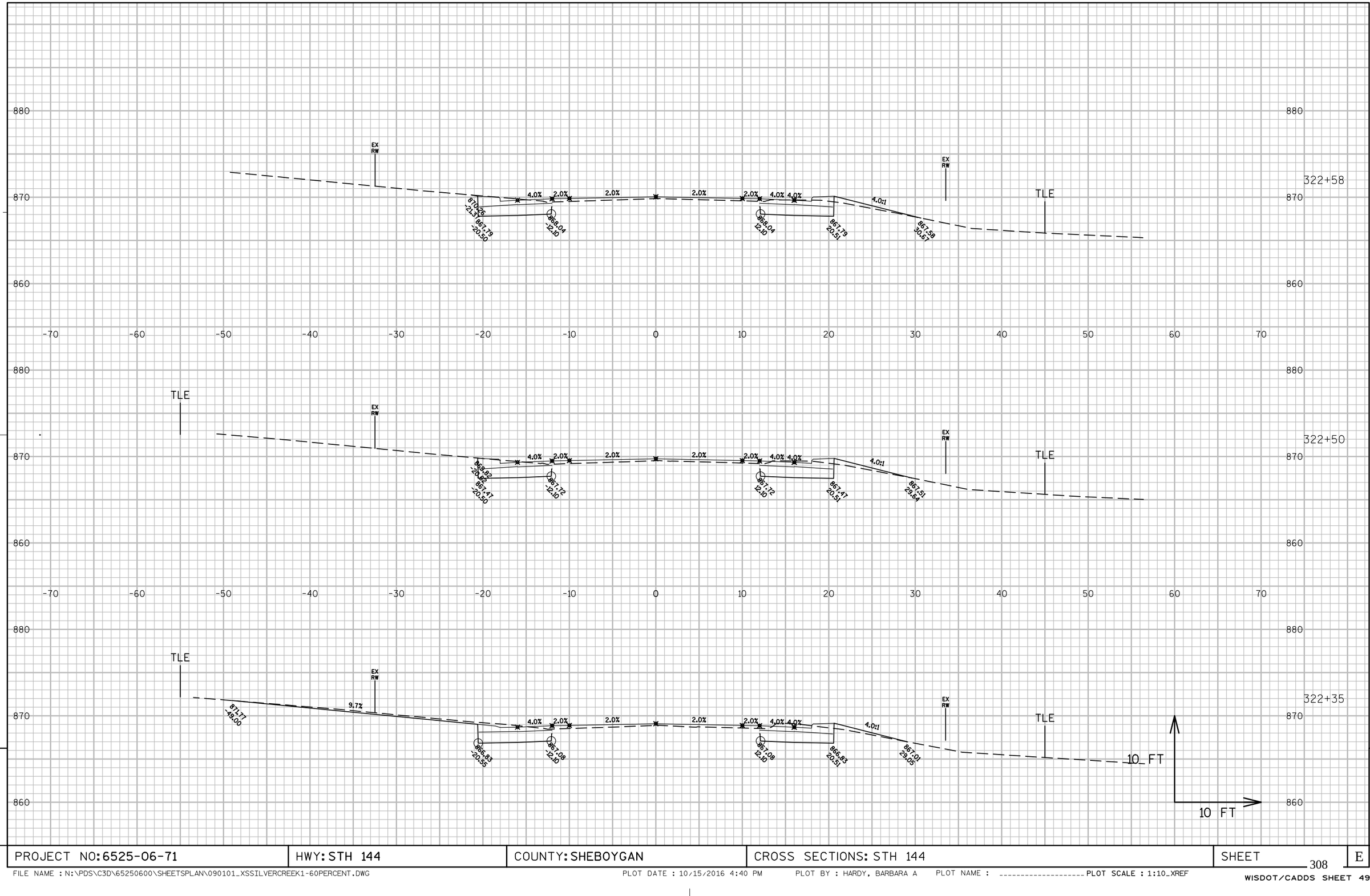
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 307 E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:40 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

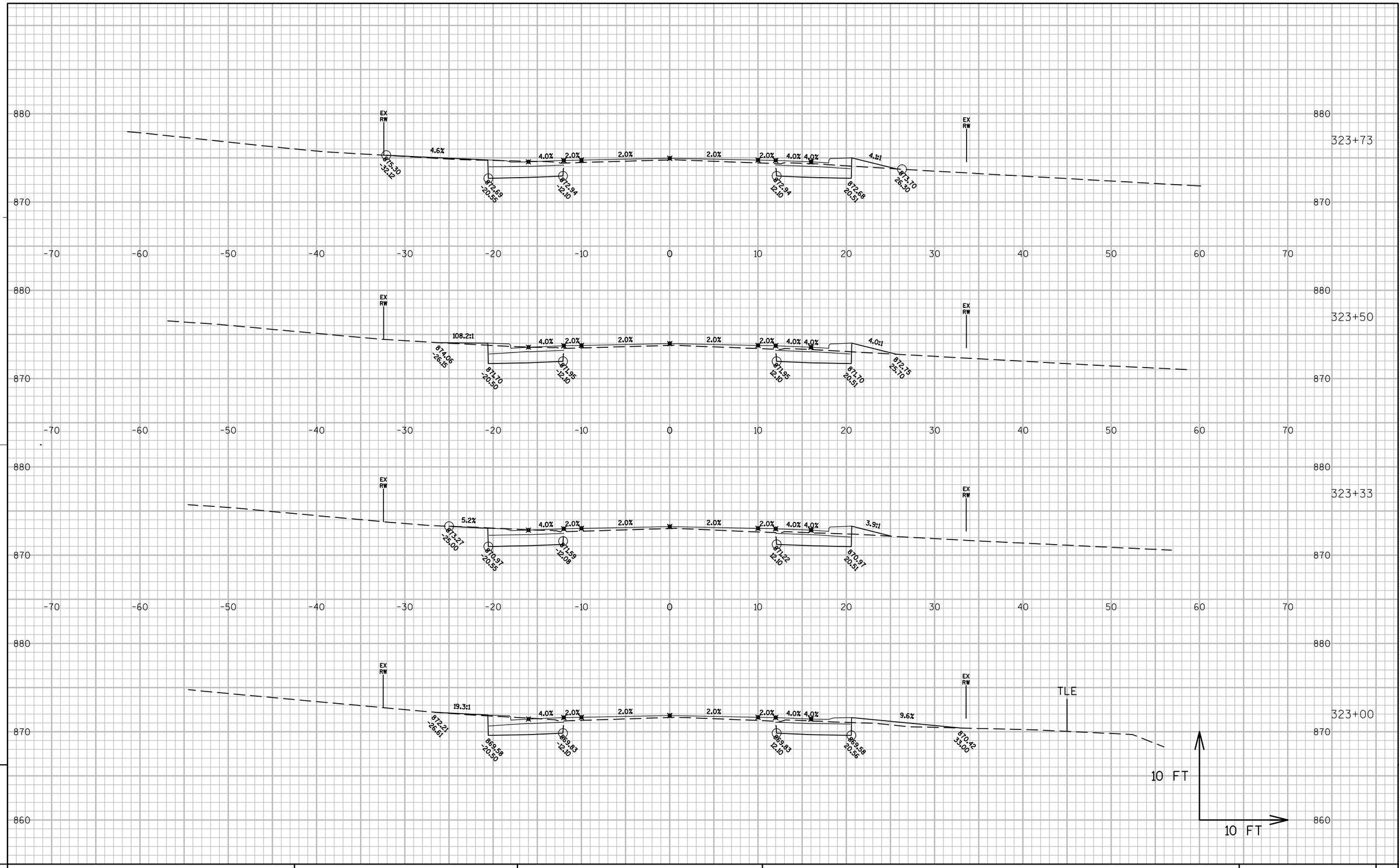
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 308	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:40 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

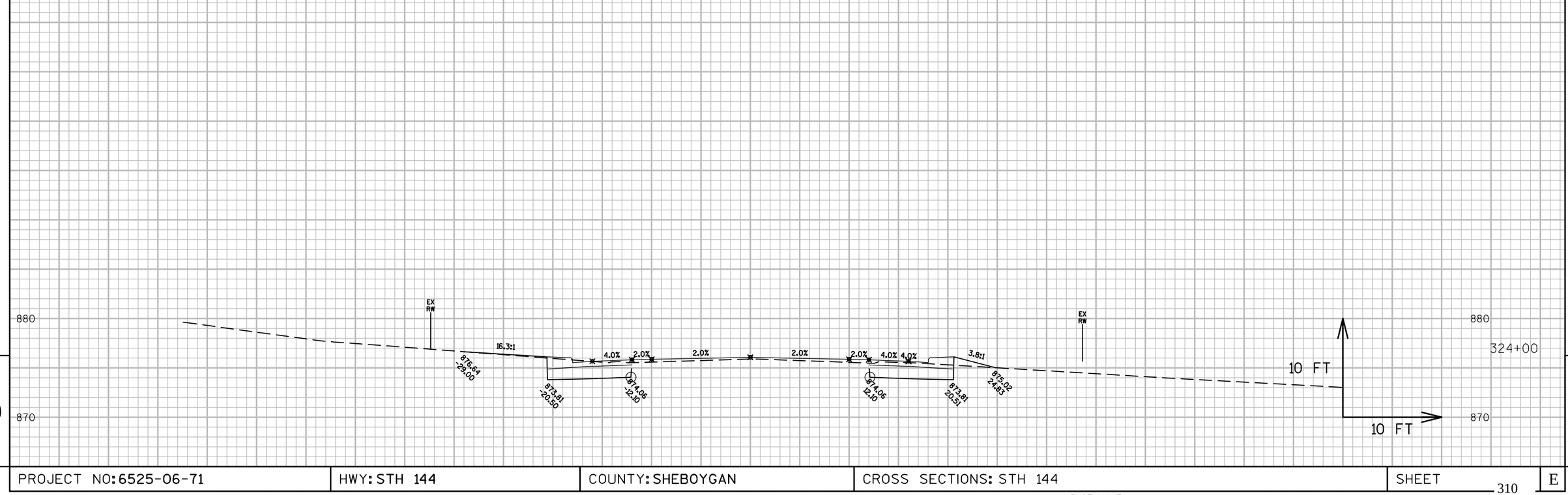
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:40 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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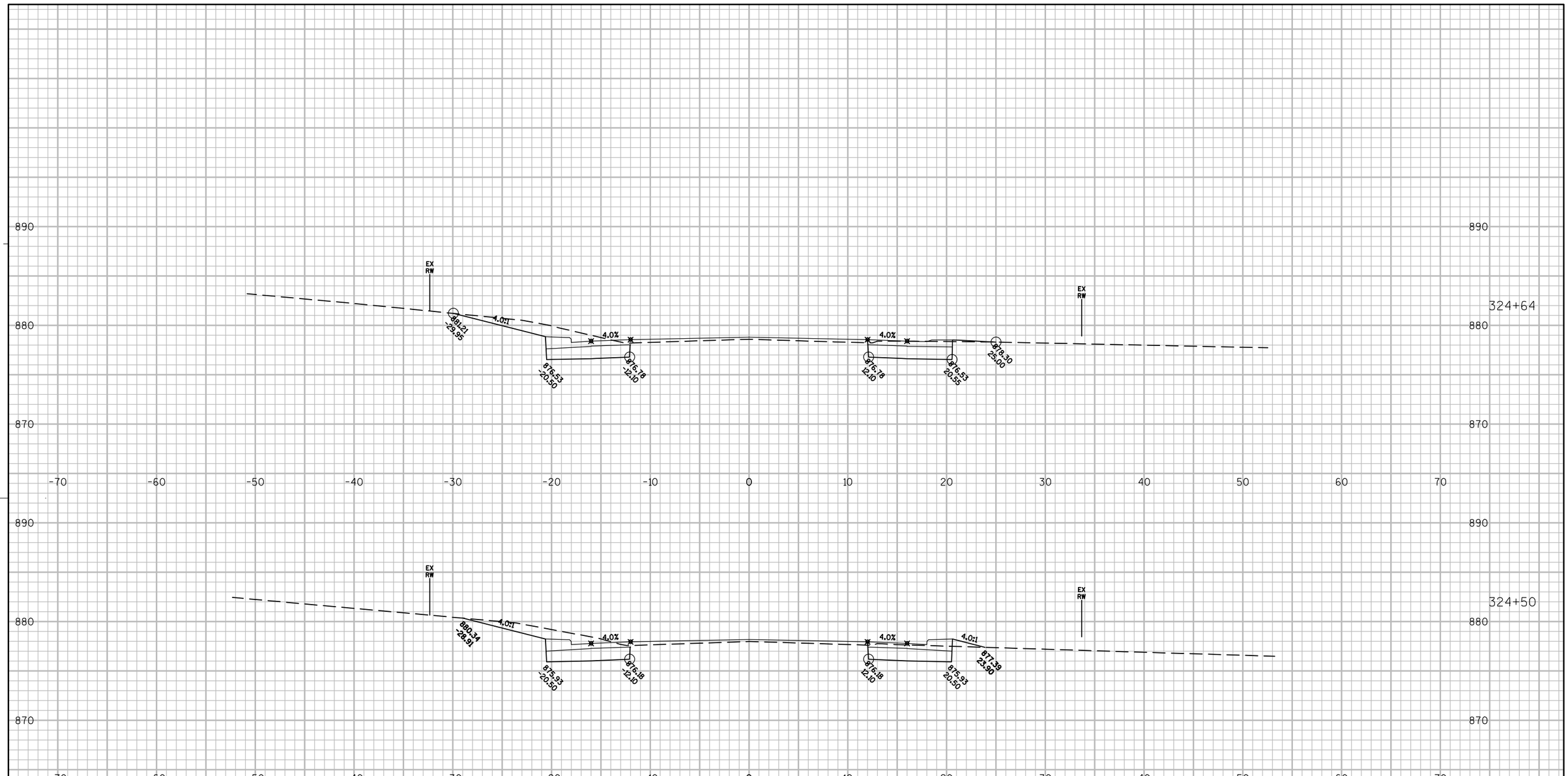
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 310	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 4:40 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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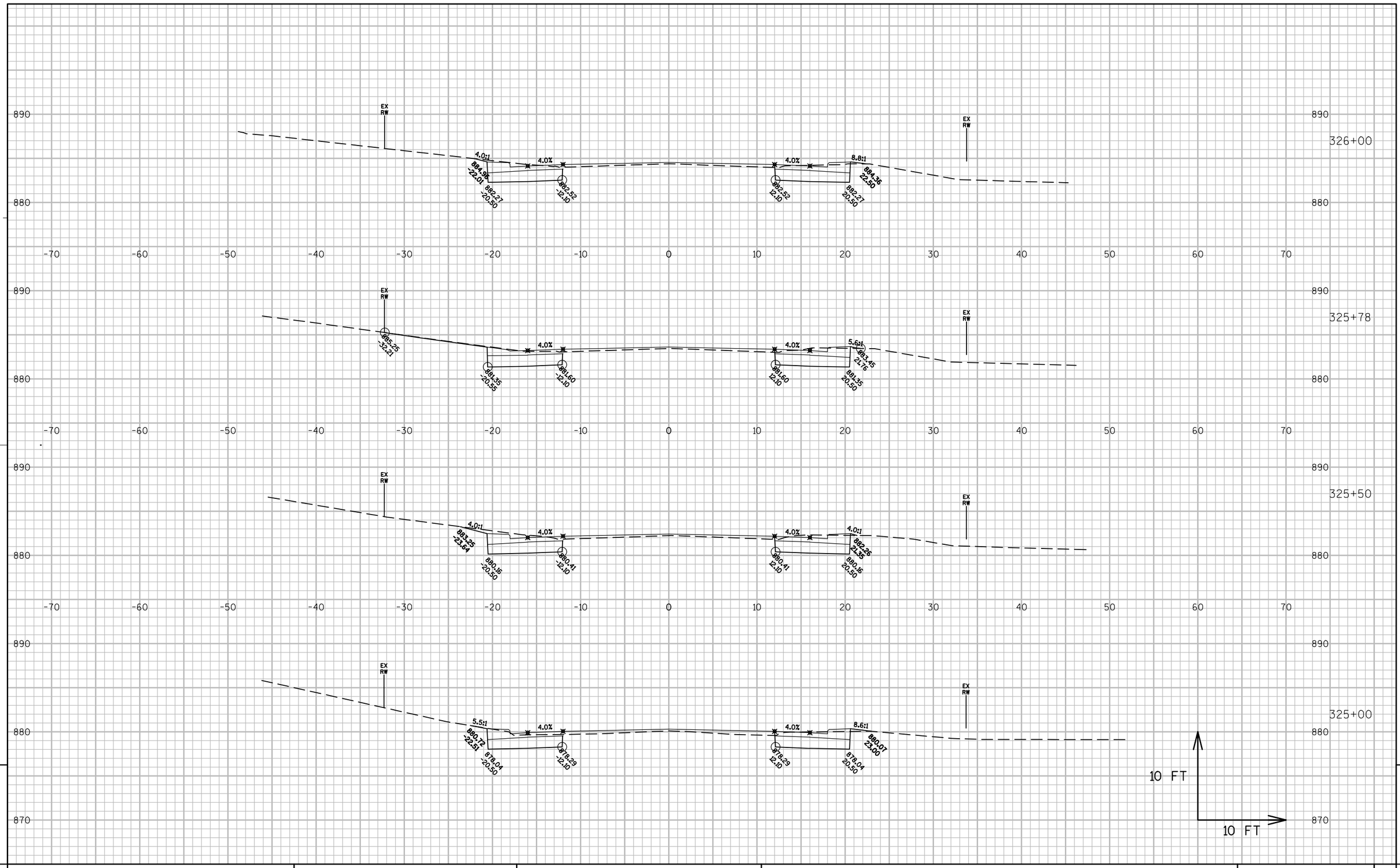
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 311	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/20/2016 7:14 AM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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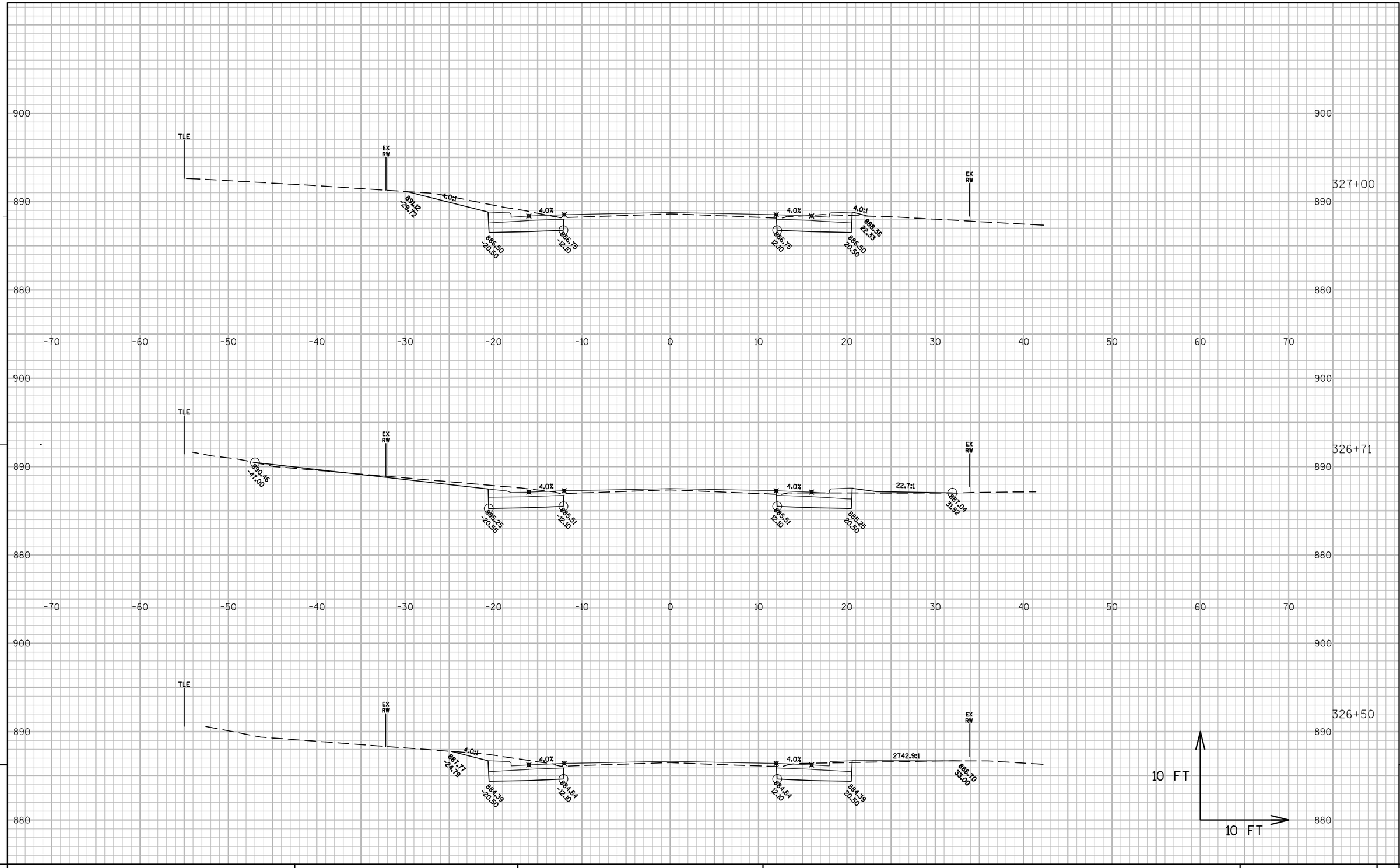
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 312	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:04 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

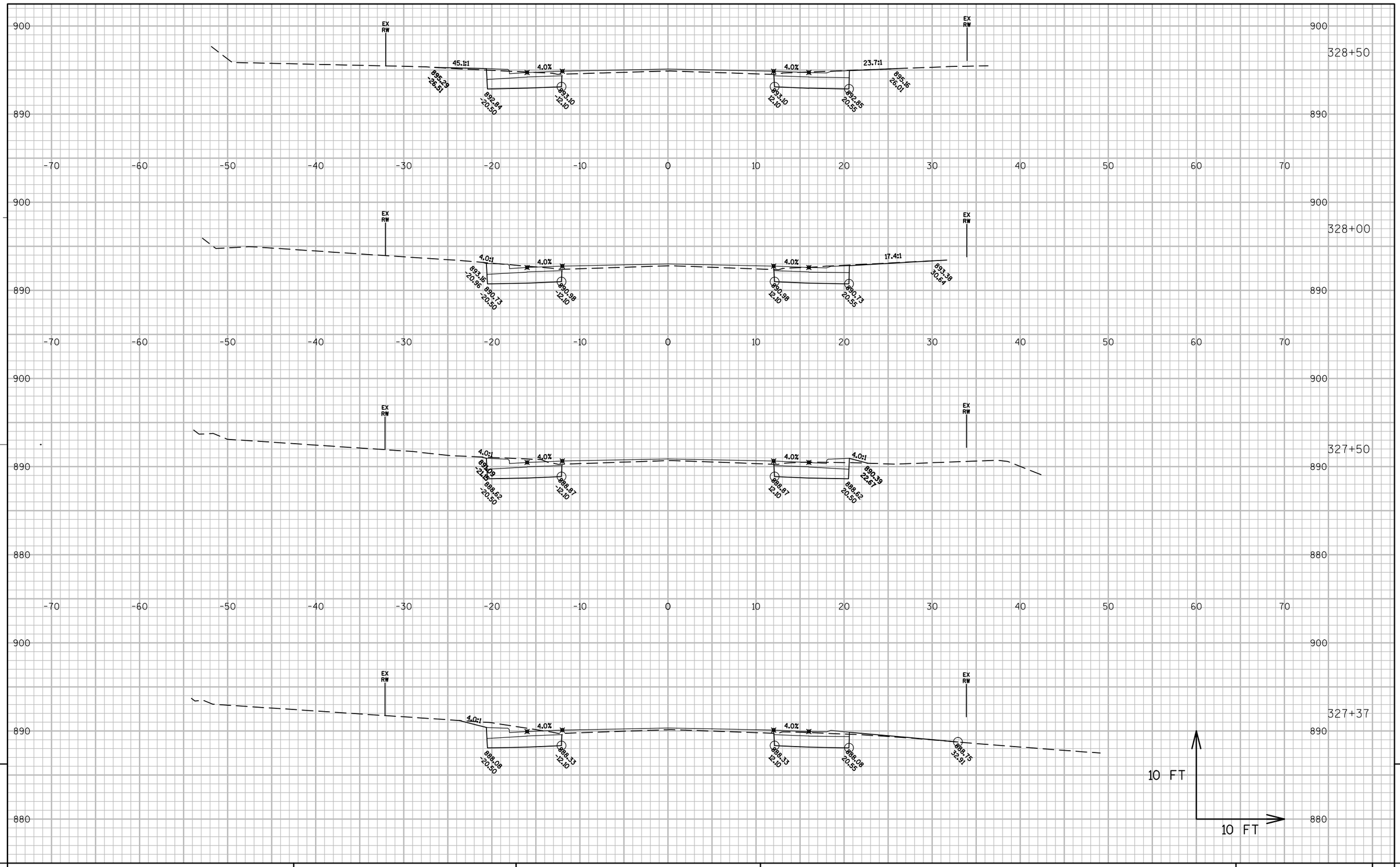
9



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 313	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:05 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

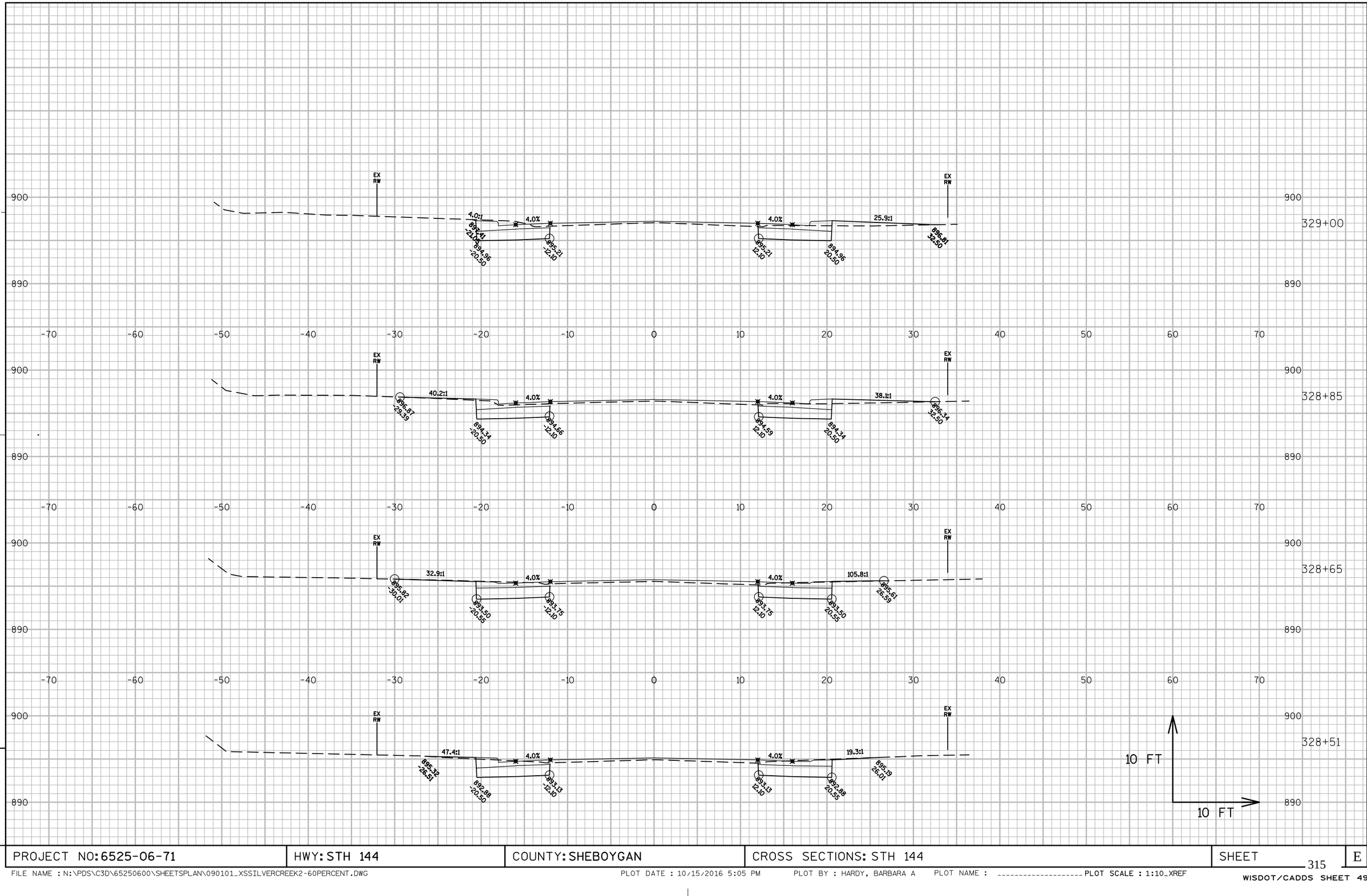
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 314	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:05 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

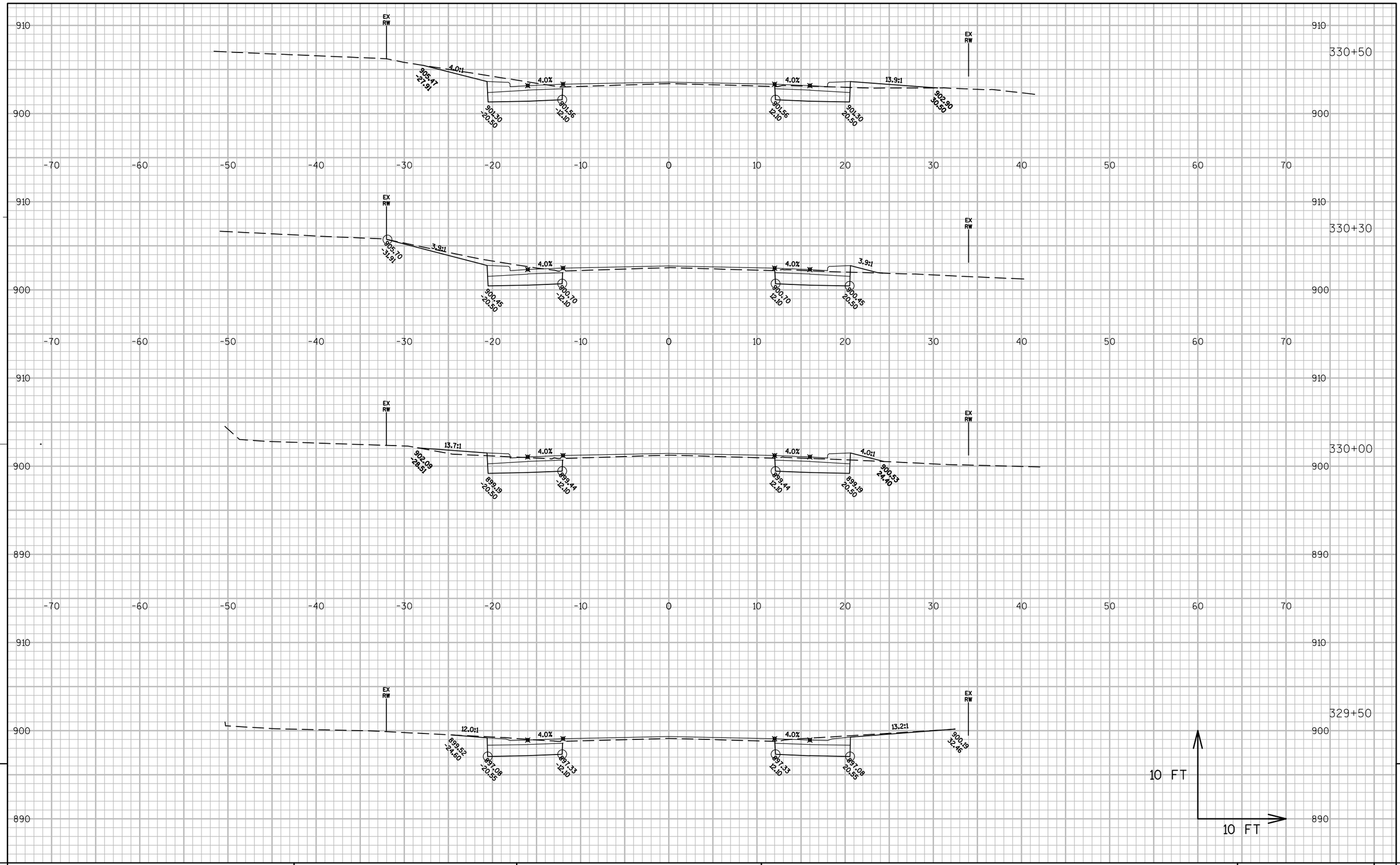
WISDOT/CADDS SHEET 49



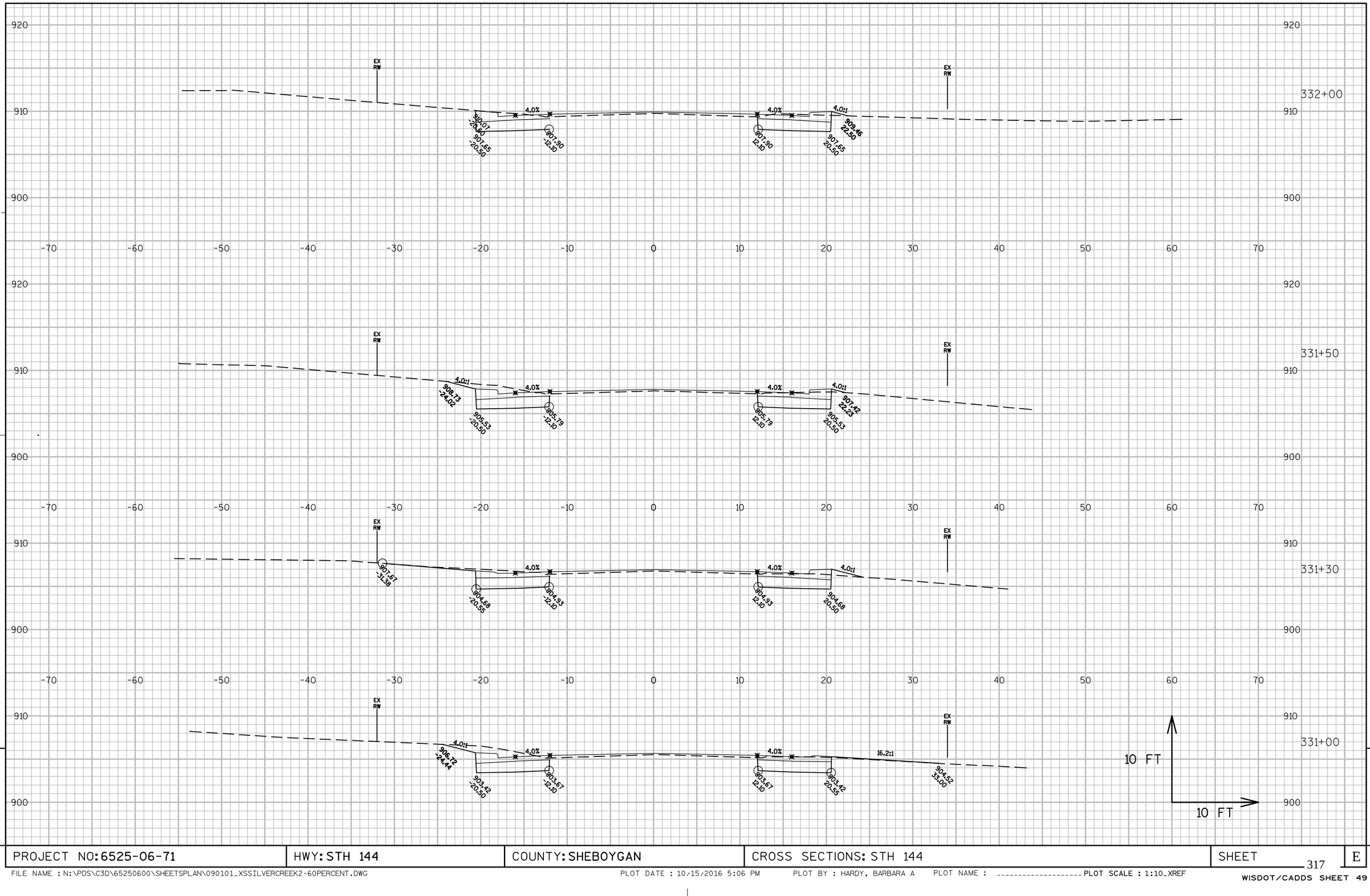
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 315	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:05 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

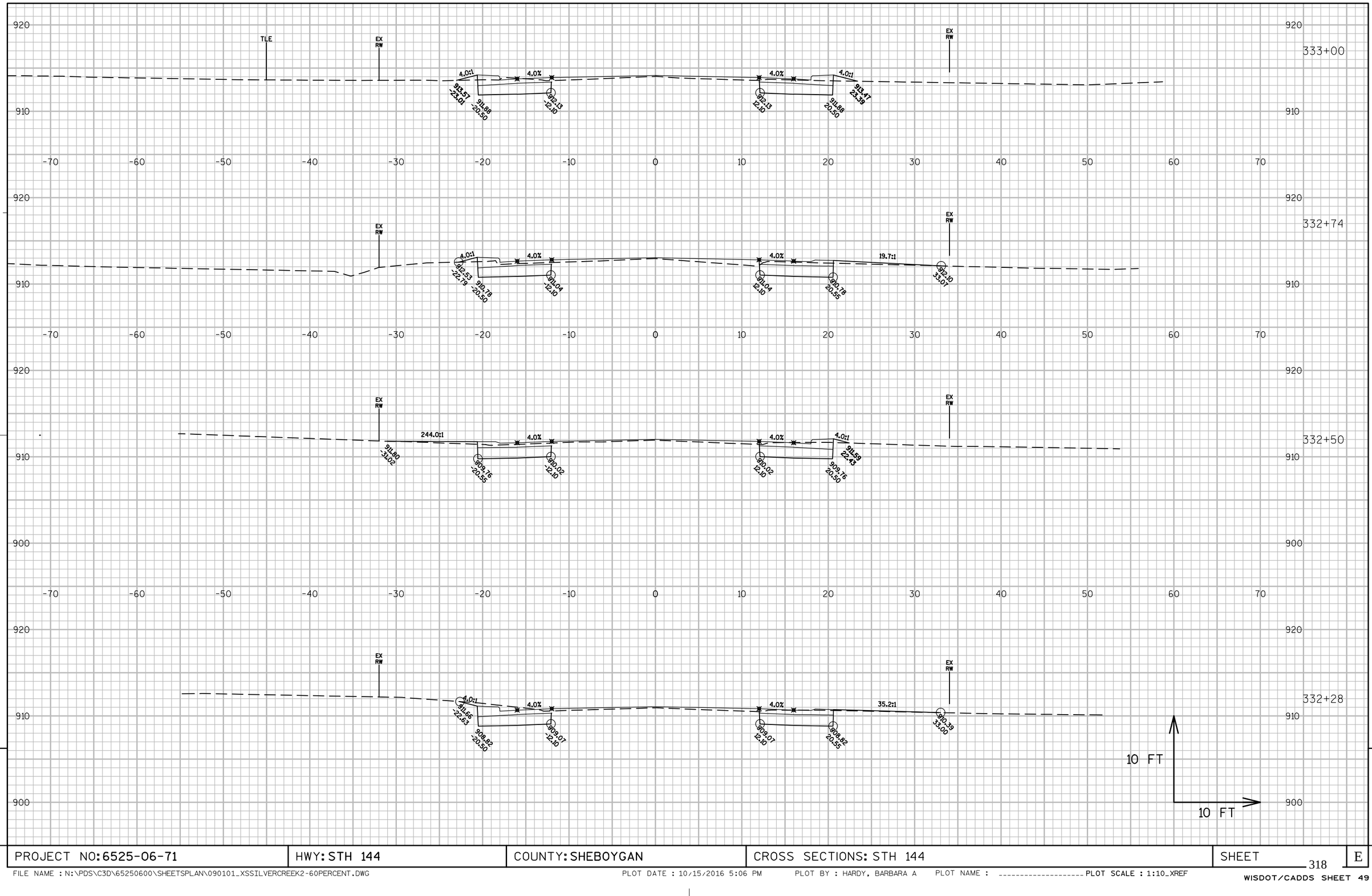
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 316	E



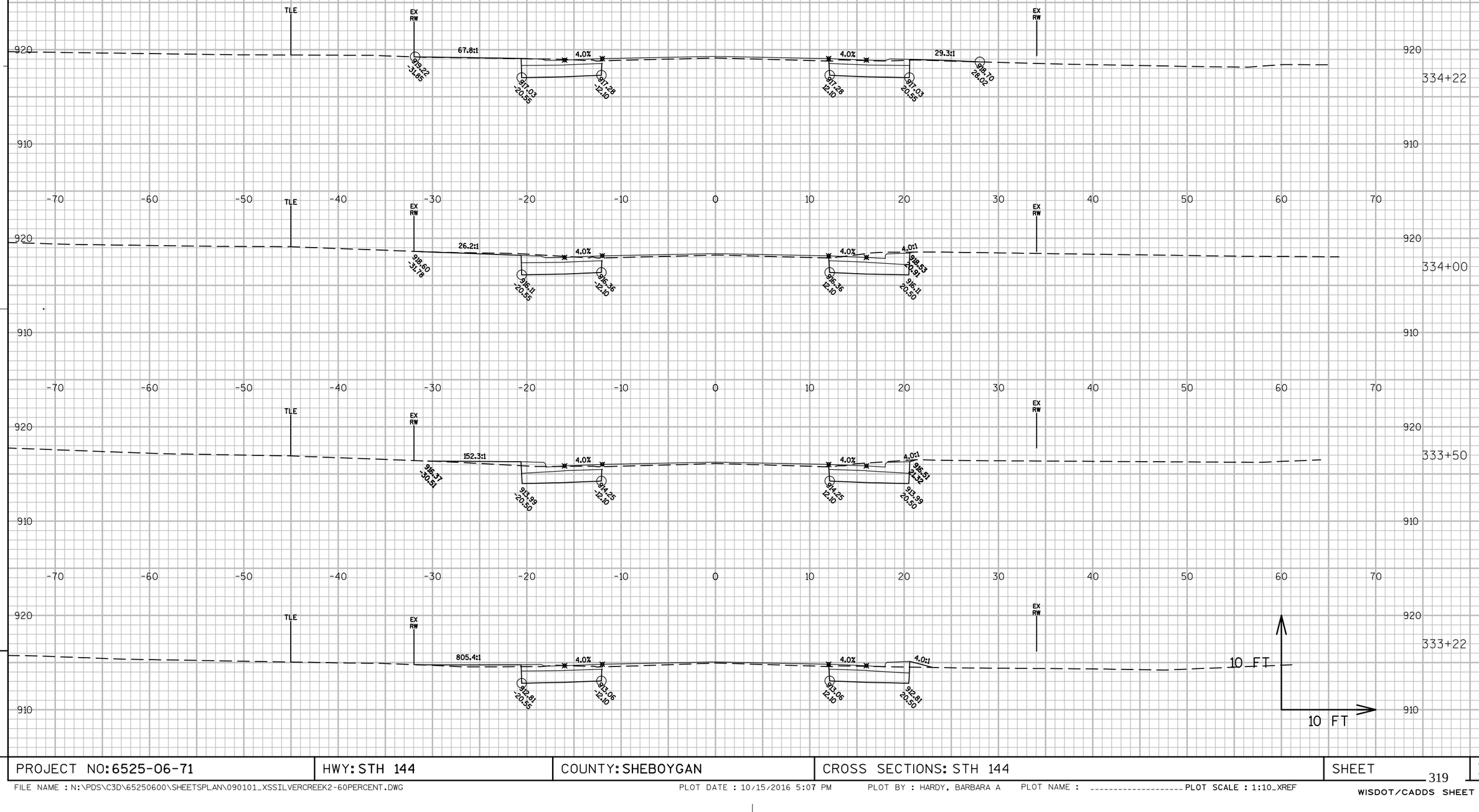
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 317	E



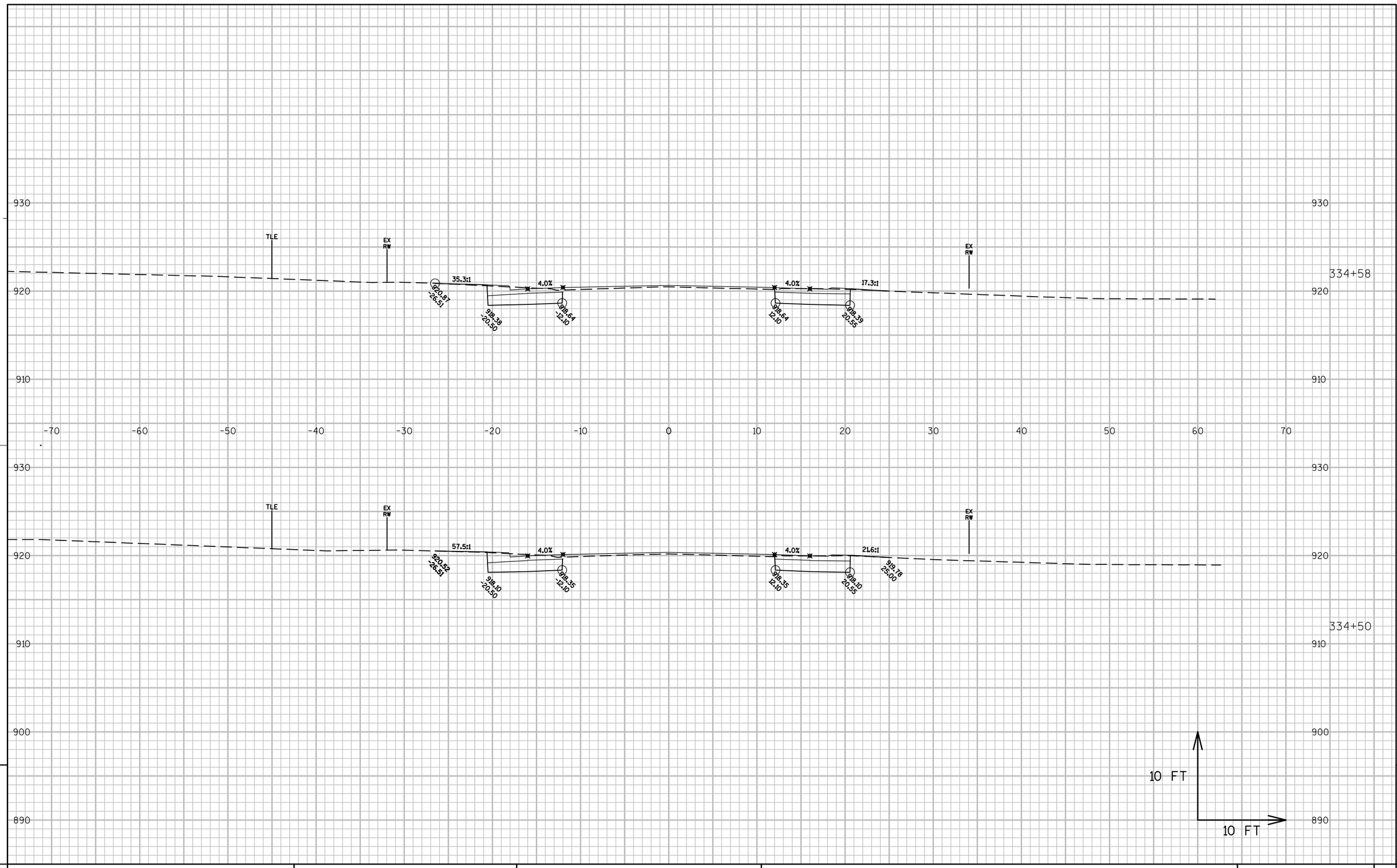
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:06 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 319	E



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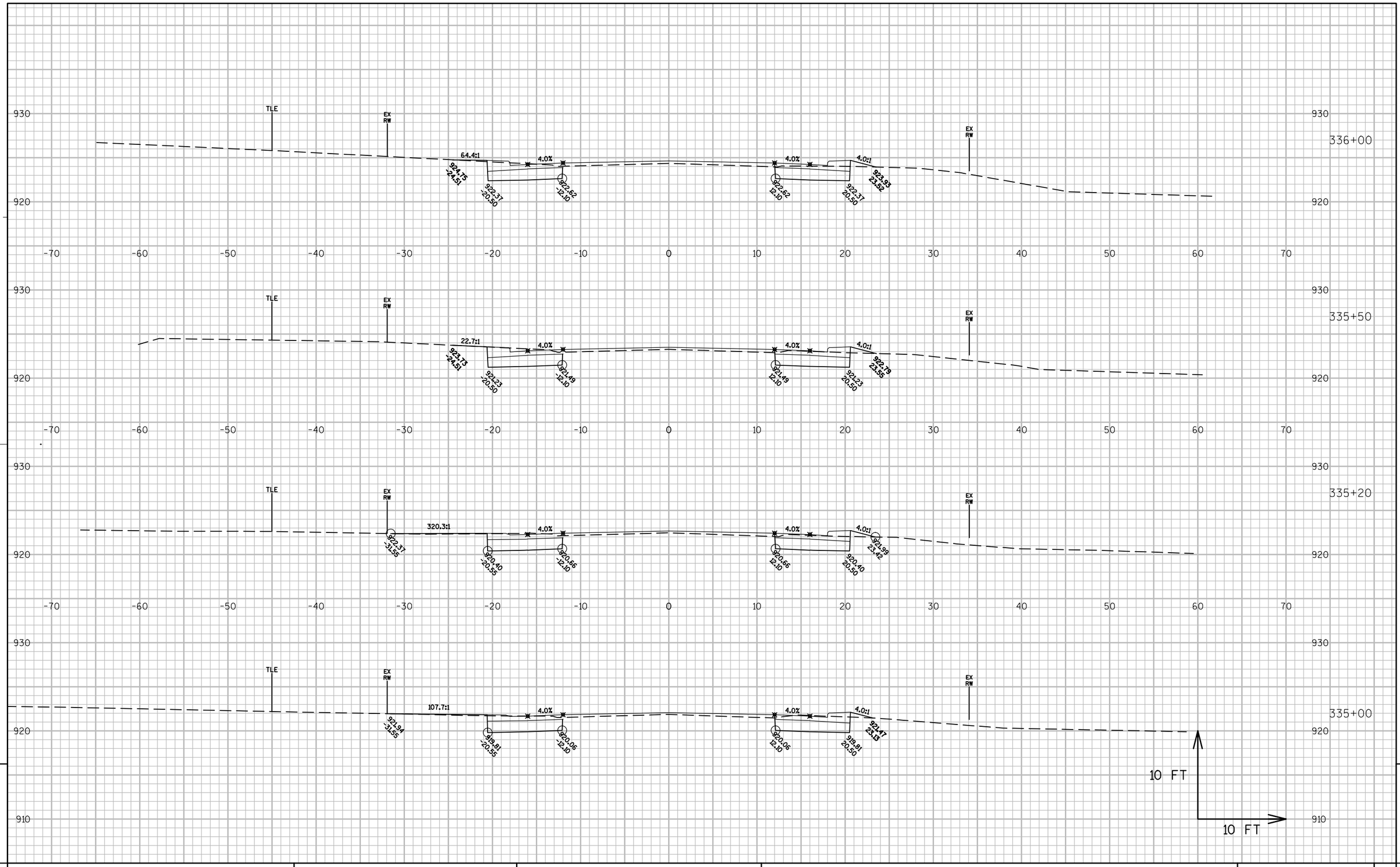
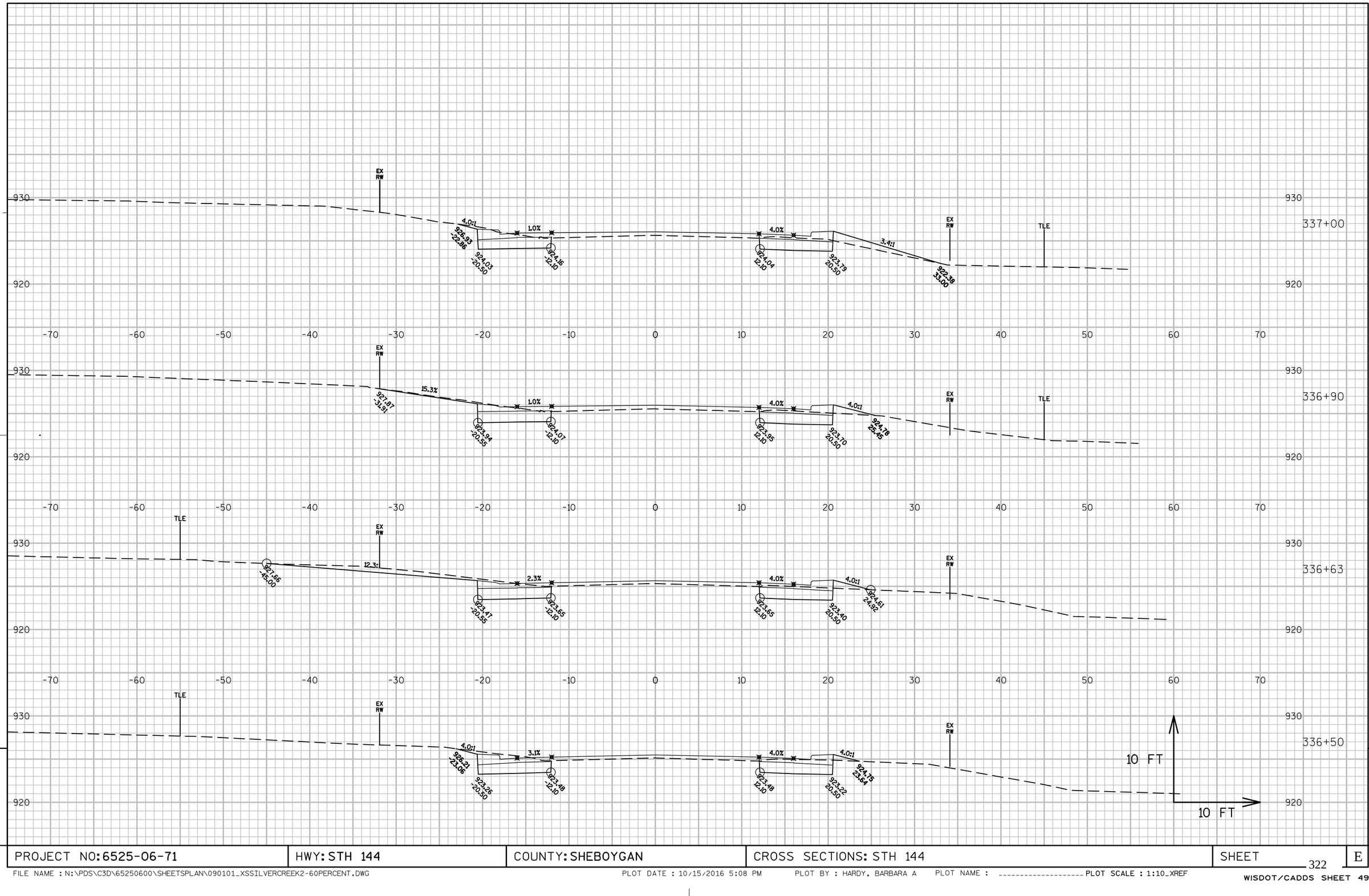
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 320	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E



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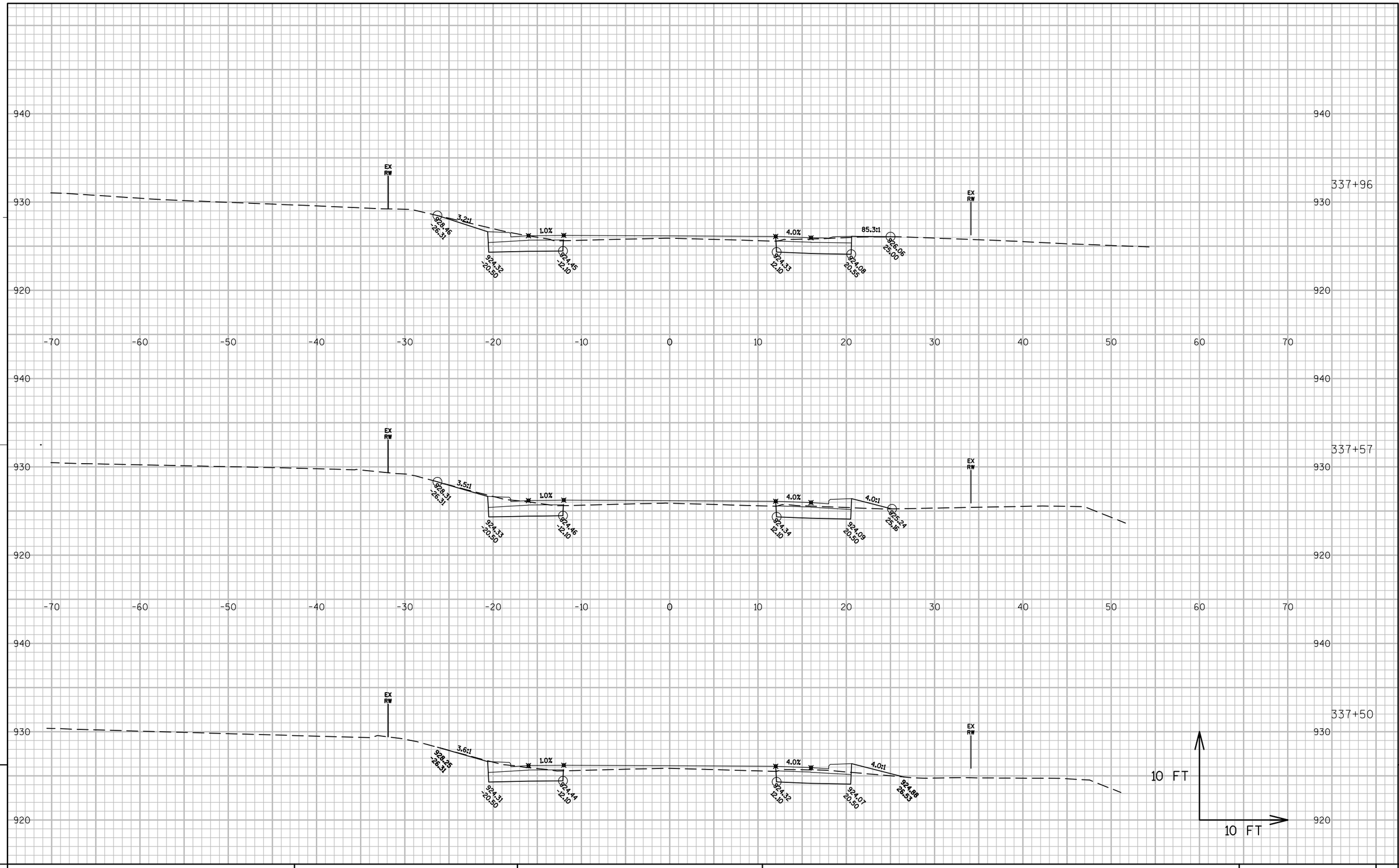
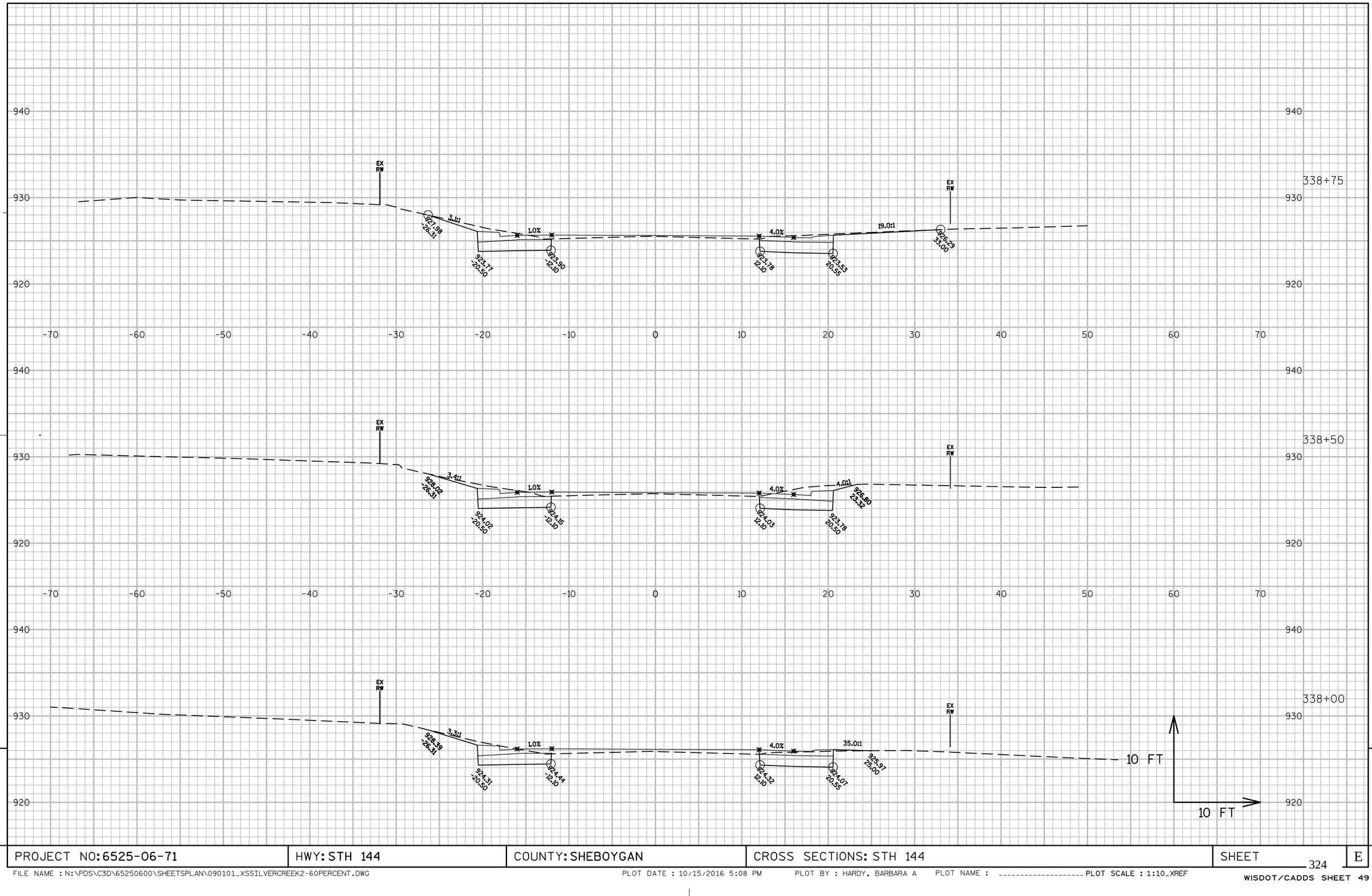
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 322	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 323	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:08 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

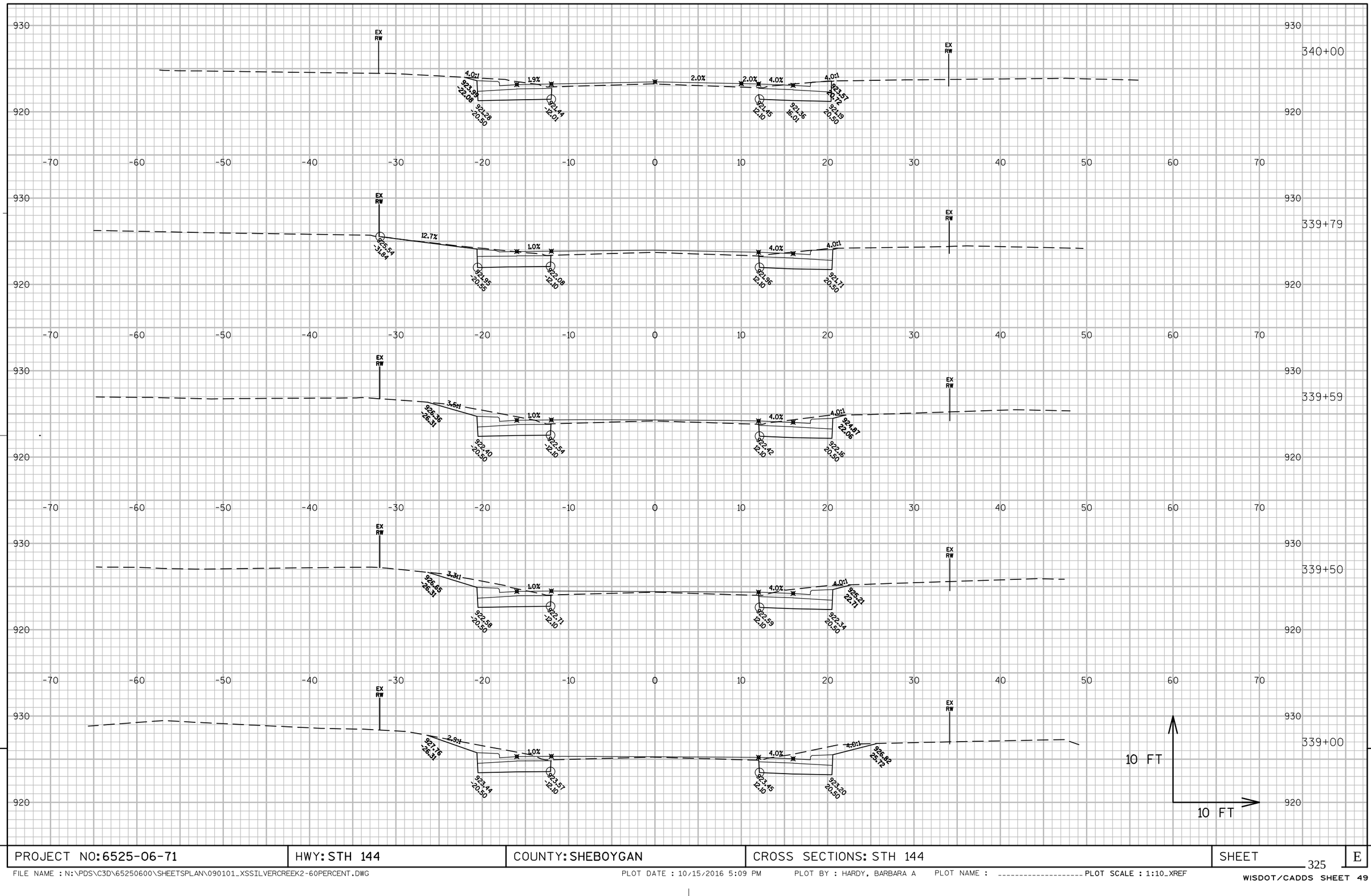
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 324	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:08 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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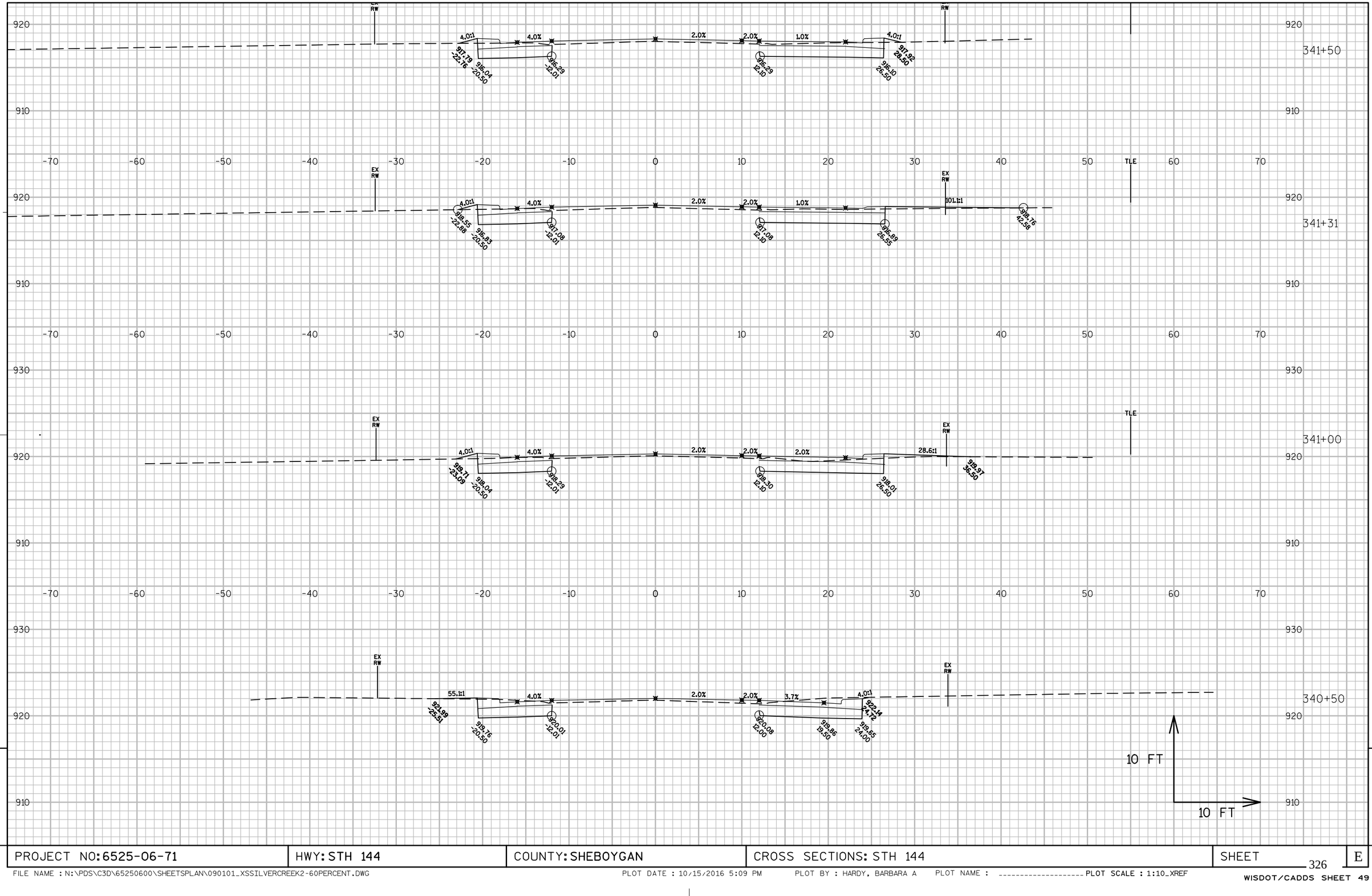
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 325	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:09 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

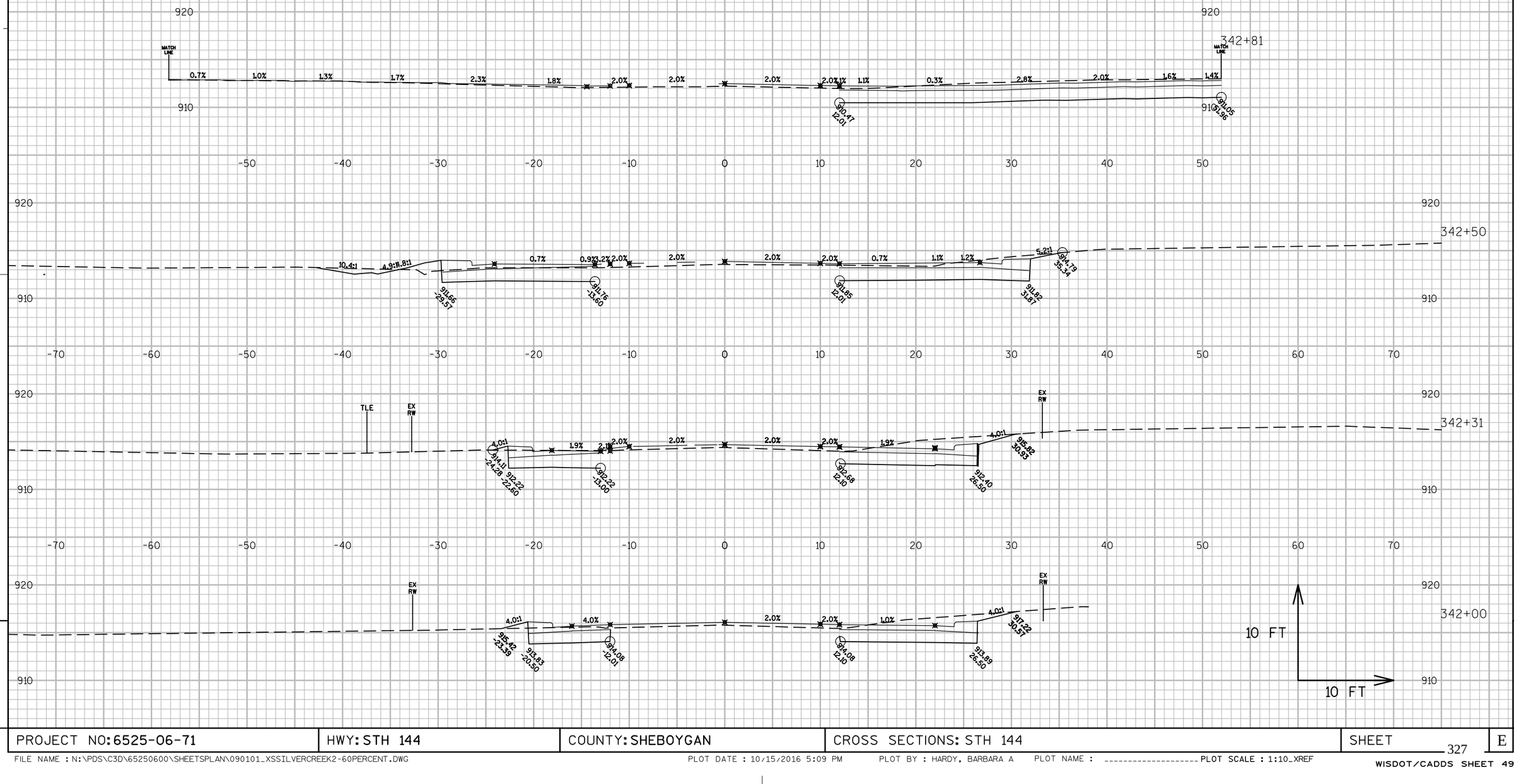
WISDOT/CADDS SHEET 49



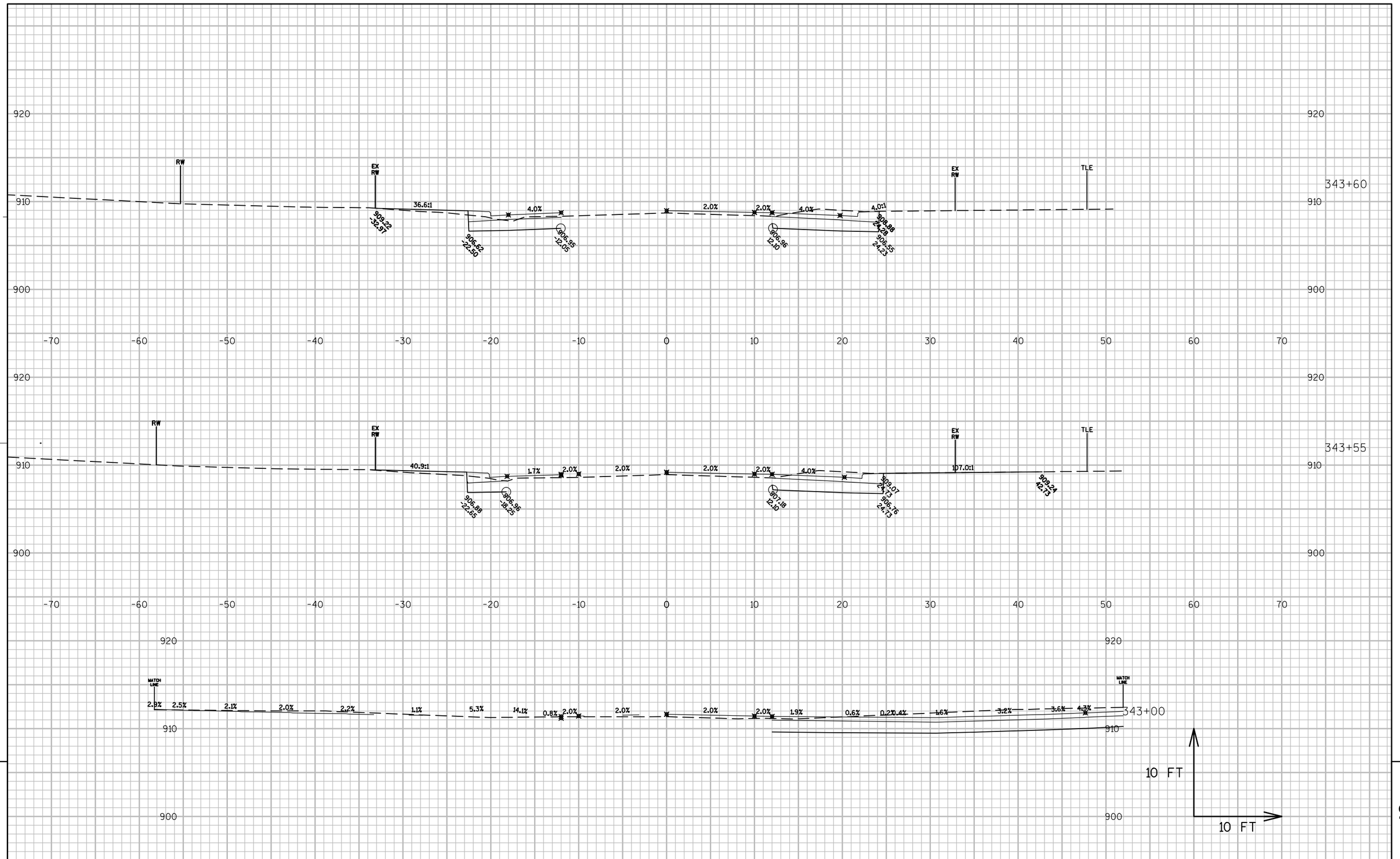
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 326	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:09 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

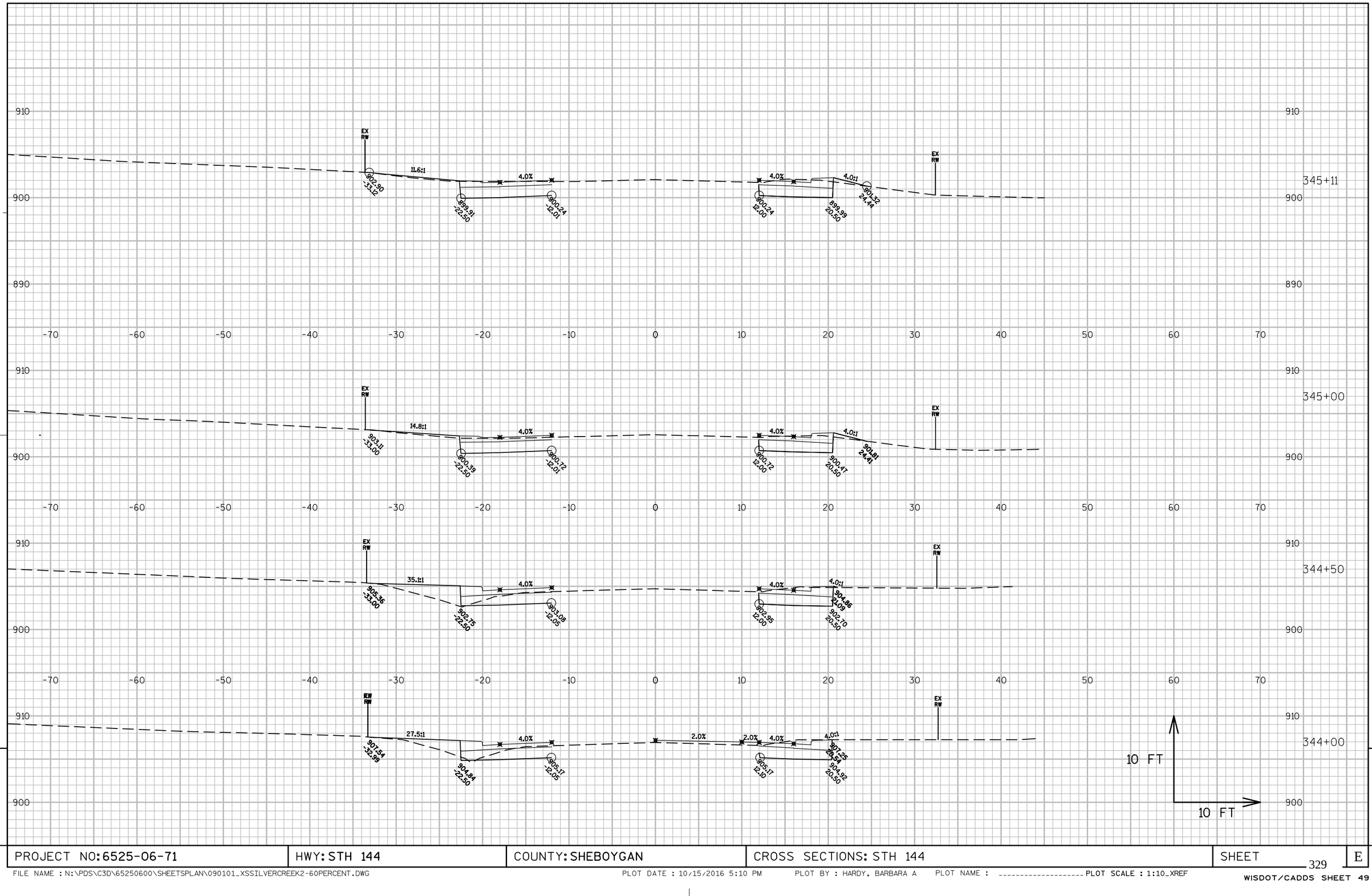


PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 327	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:10 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



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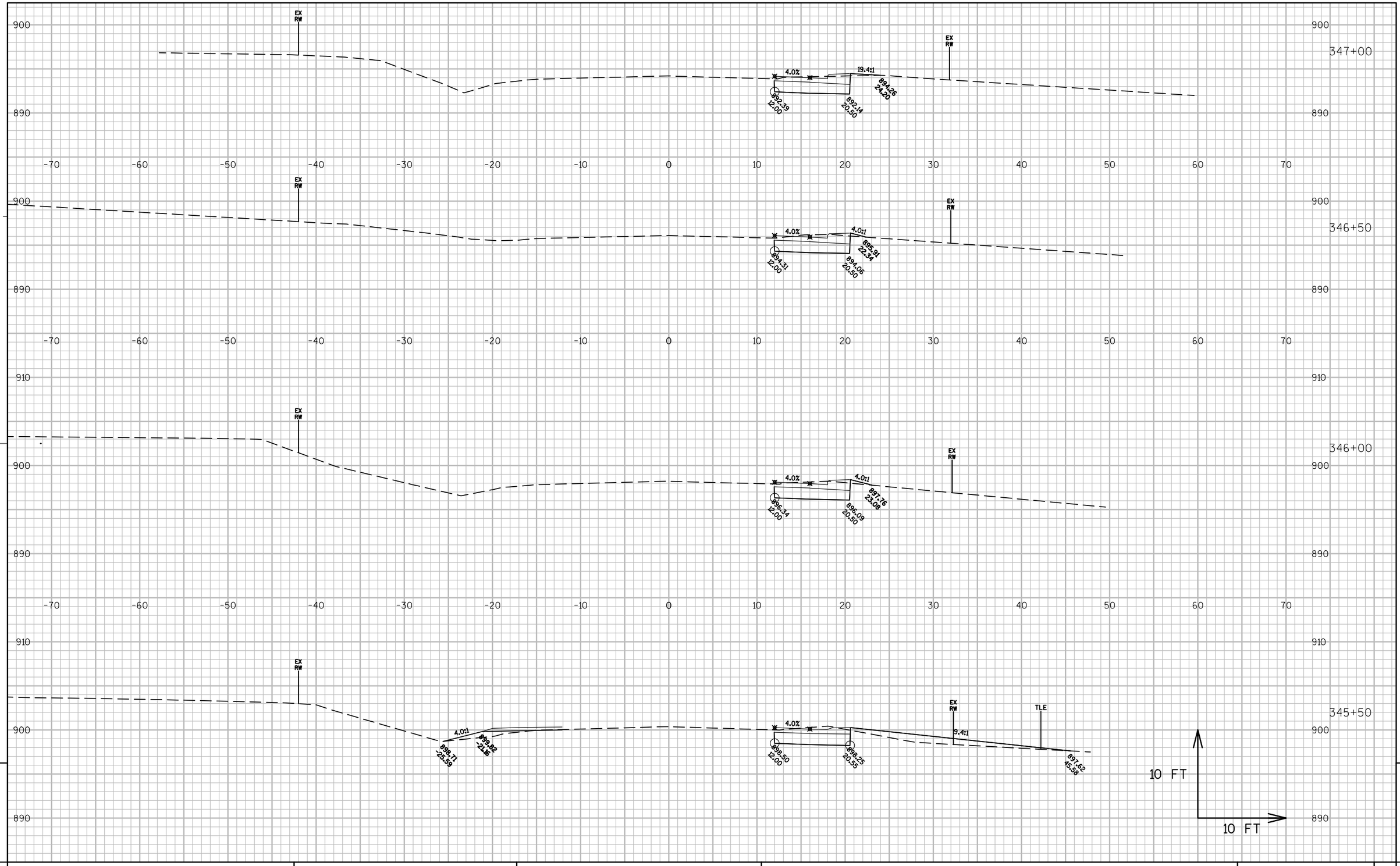
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 329	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:10 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49


347+00
346+50
346+00
345+50
EX RW
4.0%
19.4:1
892.39 12.00
892.14 20.50
894.26 24.20
4.0:1
894.31 12.00
894.06 20.50
895.91 22.34
895.34 12.00
895.09 20.50
897.76 23.08
4.0:1
898.71 -25.59
898.82 -21.46
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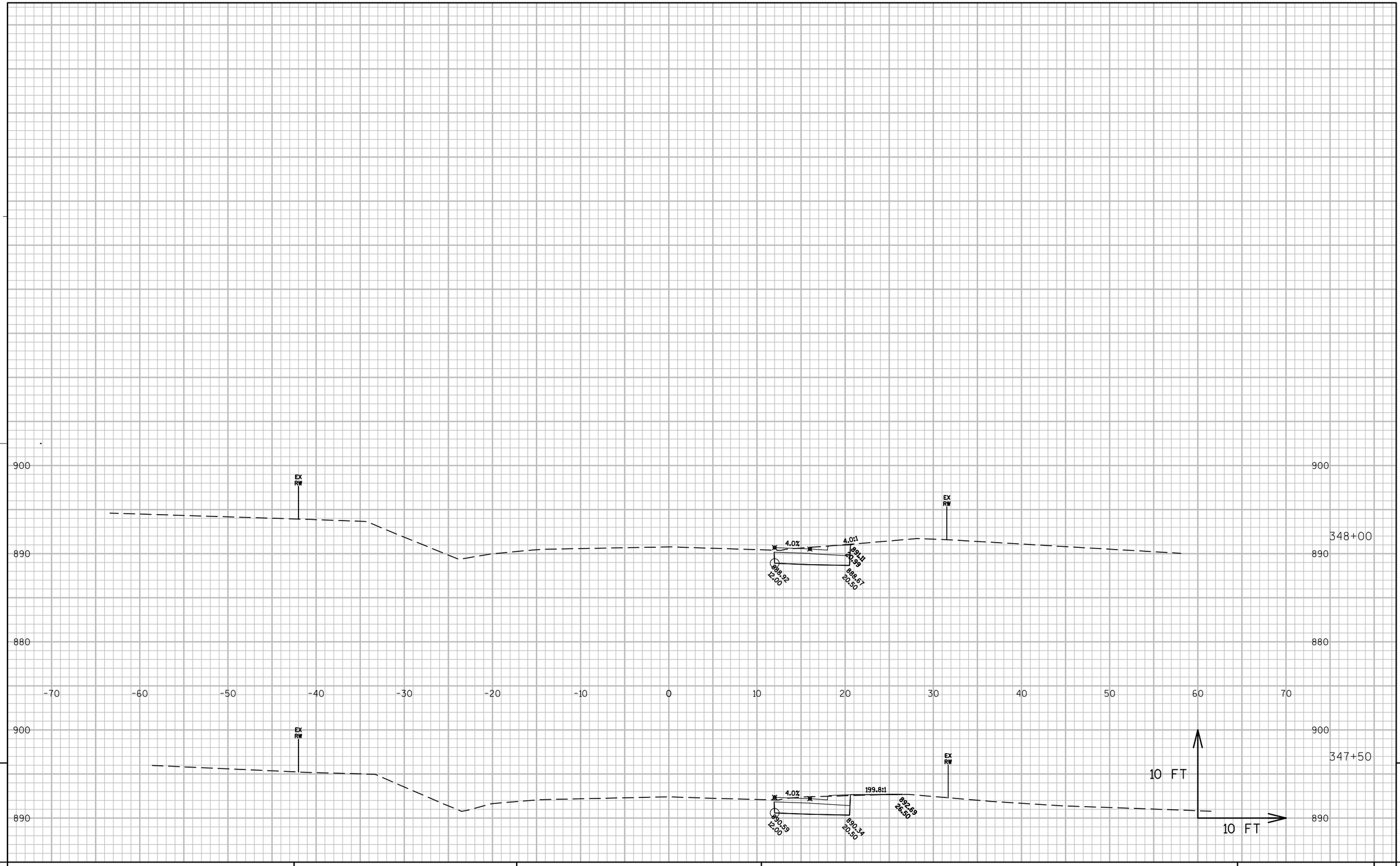
898.25 20.55
9.4:1
TLE
897.52 45.58
10 FT
10 FT



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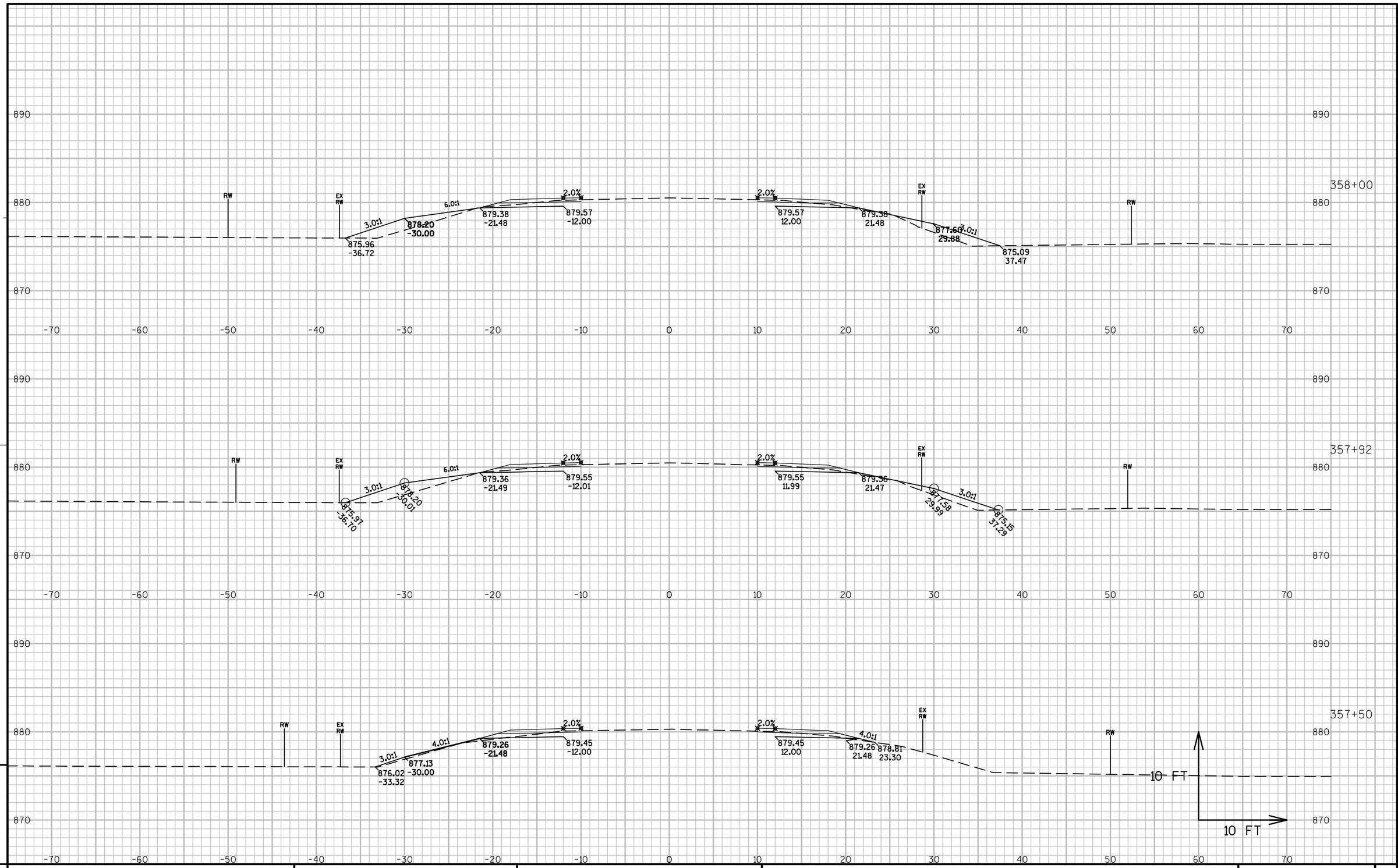
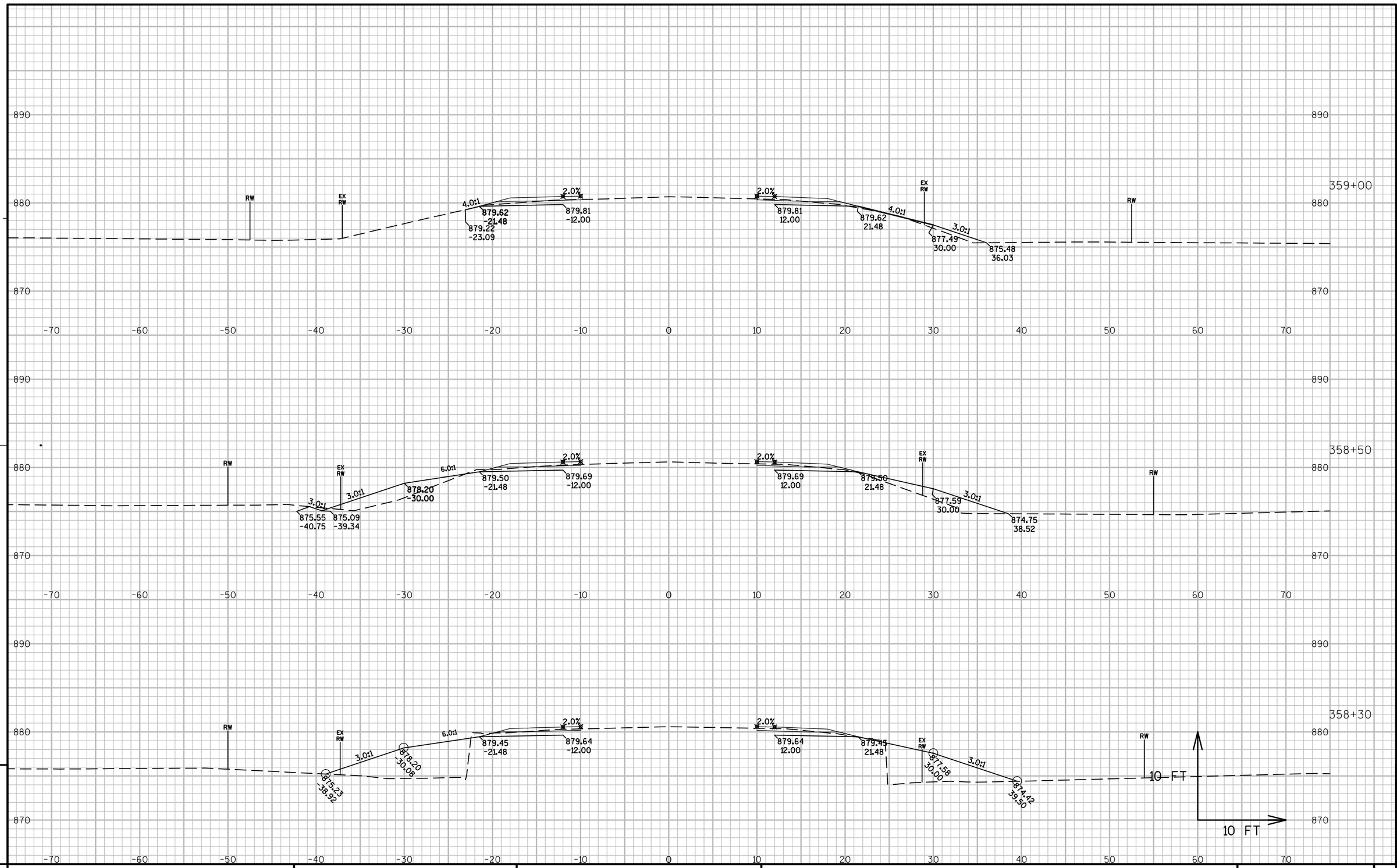
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 331	E

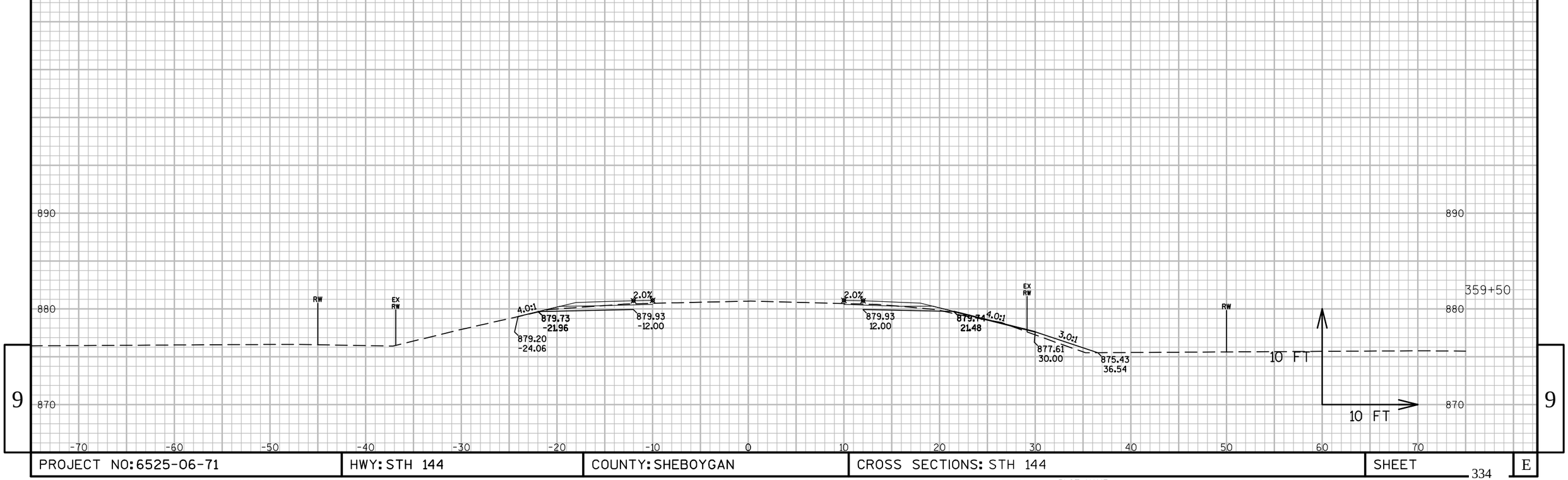


PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS358-60PERCENT.DWG PLOT DATE : 10/15/2016 5:42 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E



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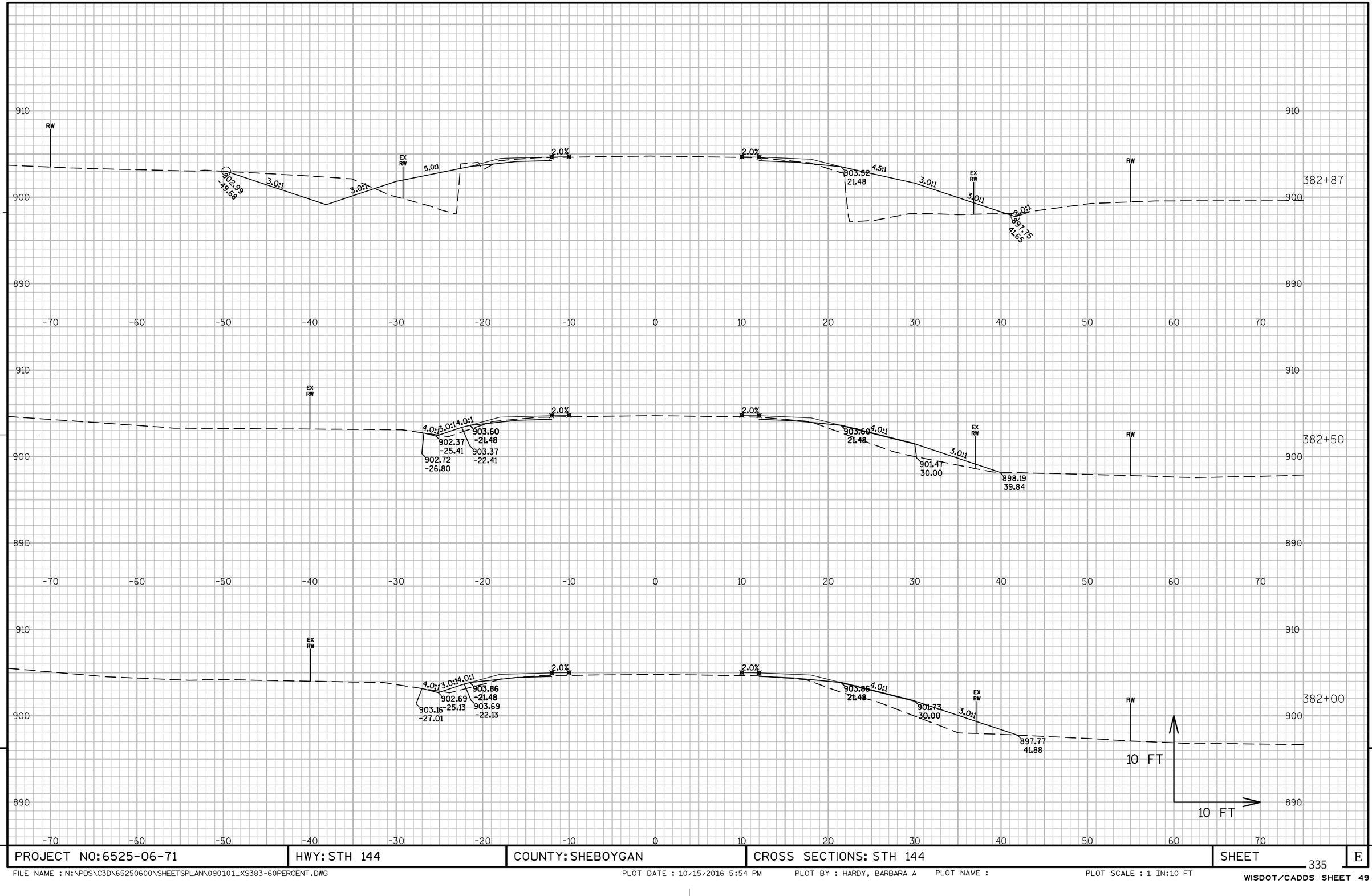
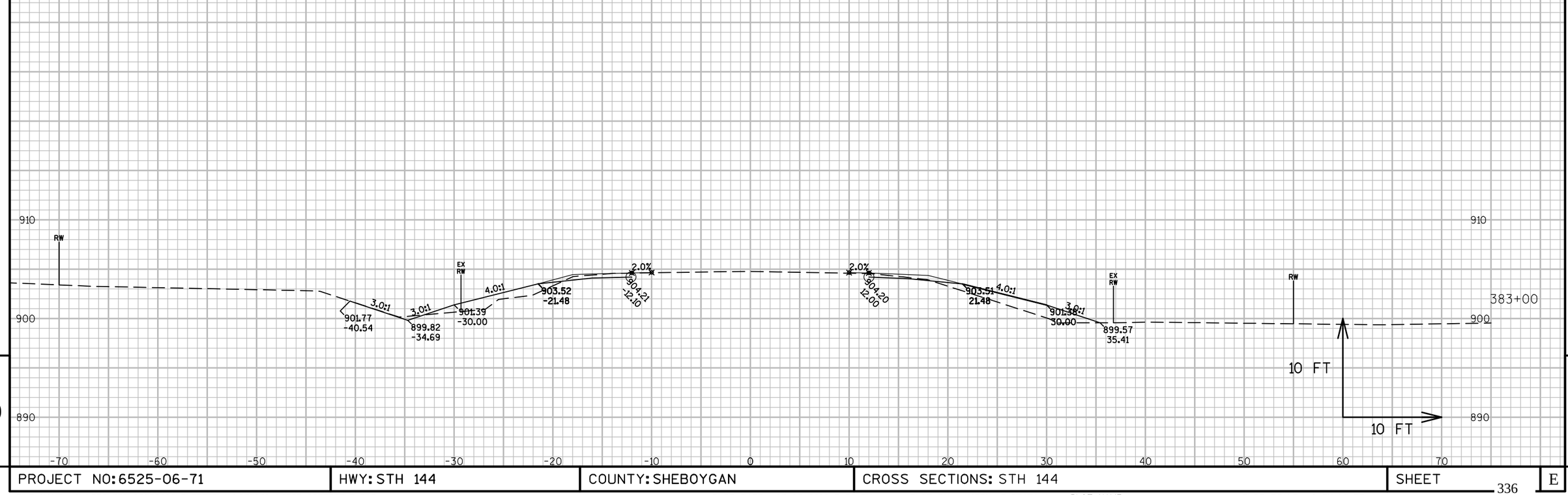
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 334	E

9

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS358-60PERCENT.DWG PLOT DATE : 10/15/2016 5:42 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

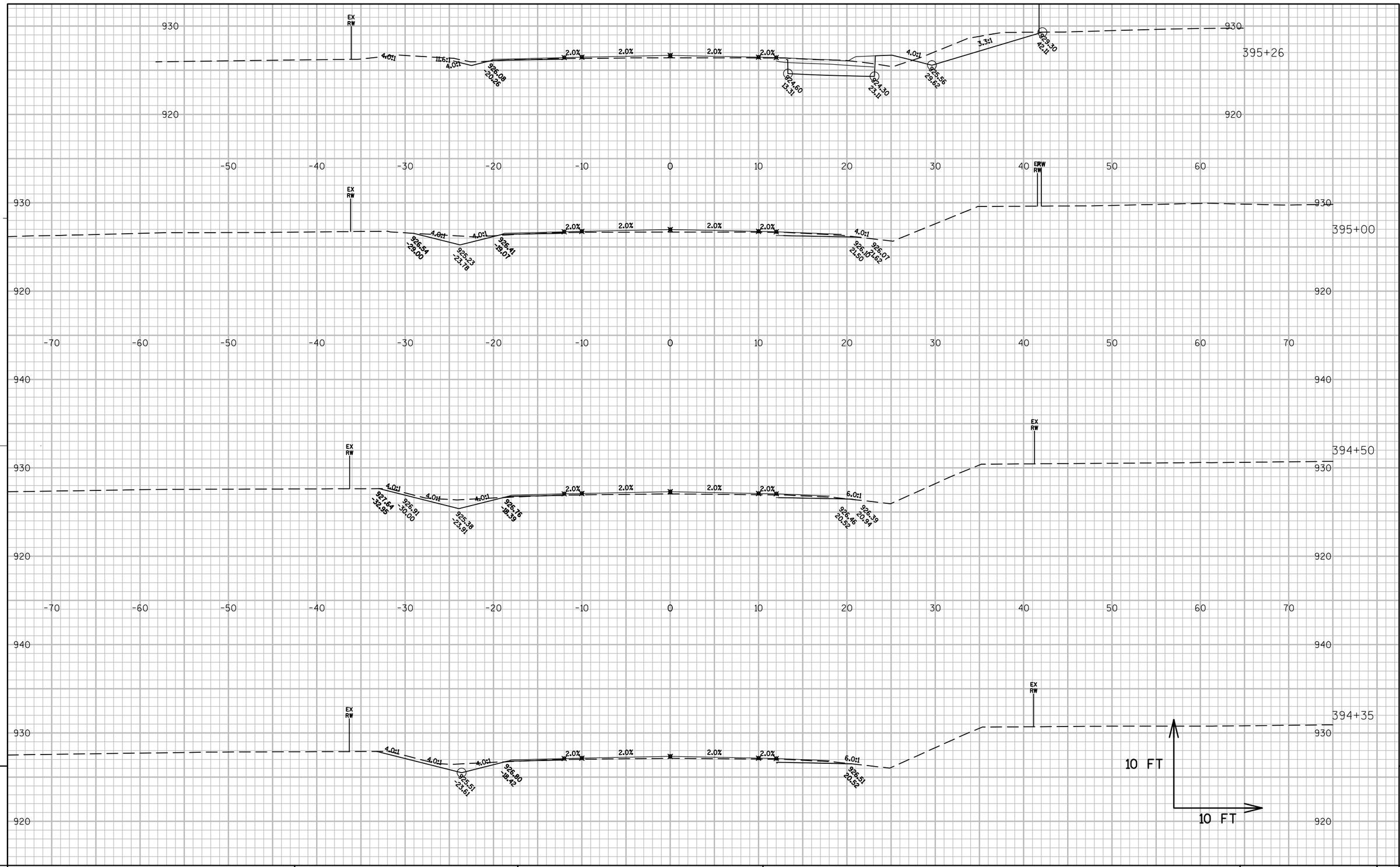


PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 335	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

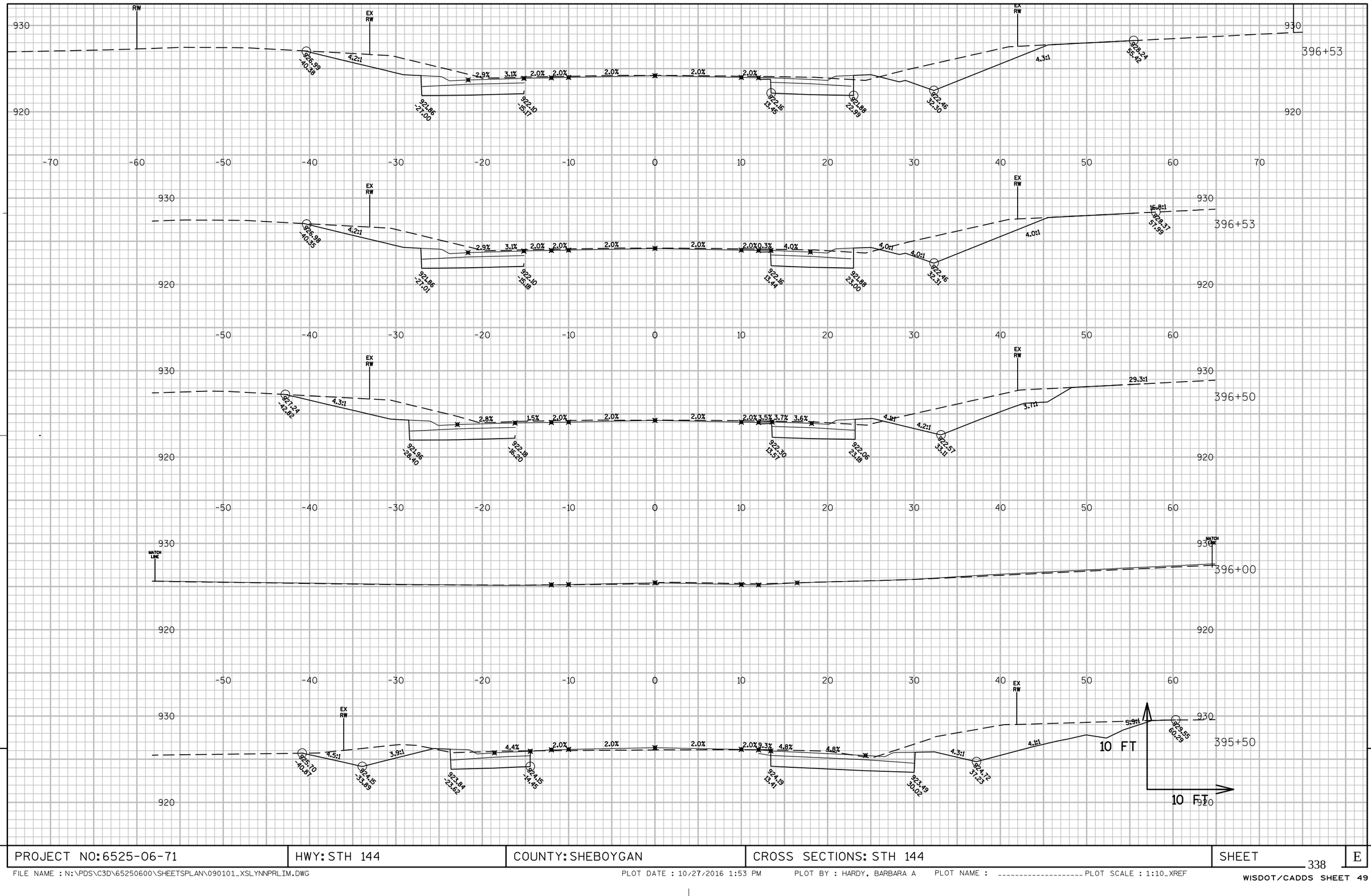
FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS383-60PERCENT.DWG PLOT DATE : 10/15/2016 5:54 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 337	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSLYNNPRLIM.DWG PLOT DATE : 10/27/2016 1:52 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

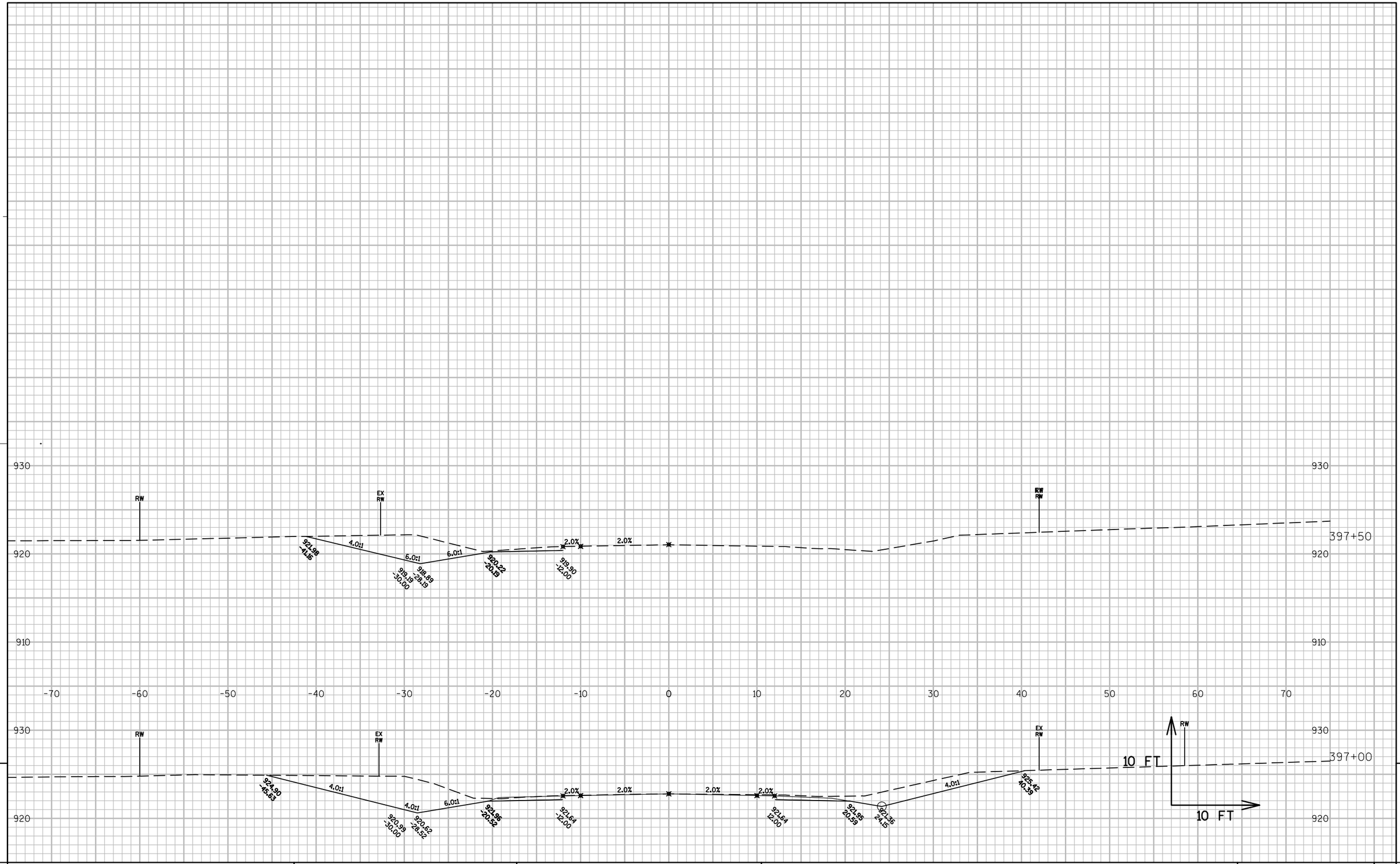
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 338	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSLYNNPRLIM.DWG PLOT DATE : 10/27/2016 1:53 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

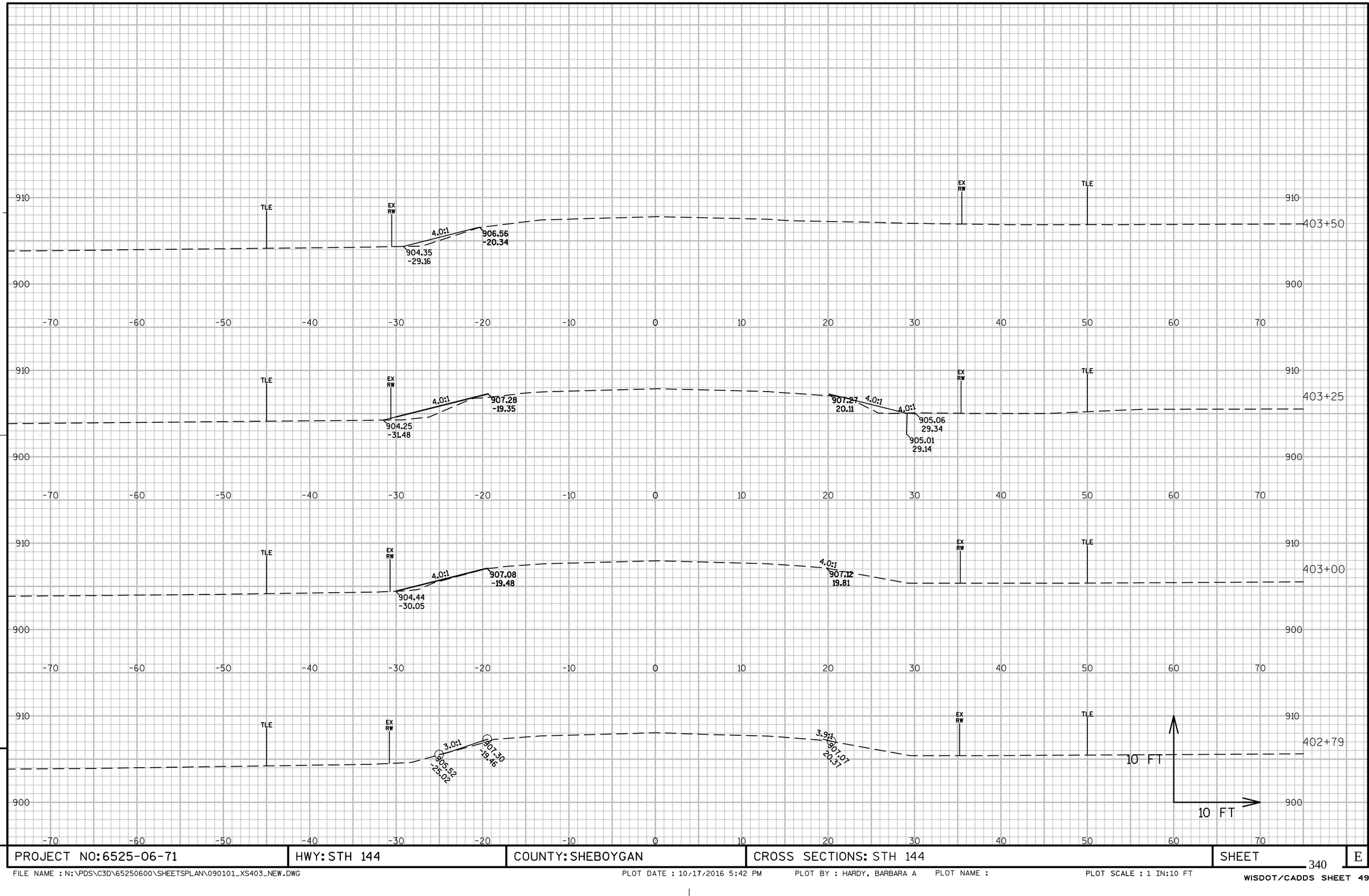
WISDOT/CADDS SHEET 49



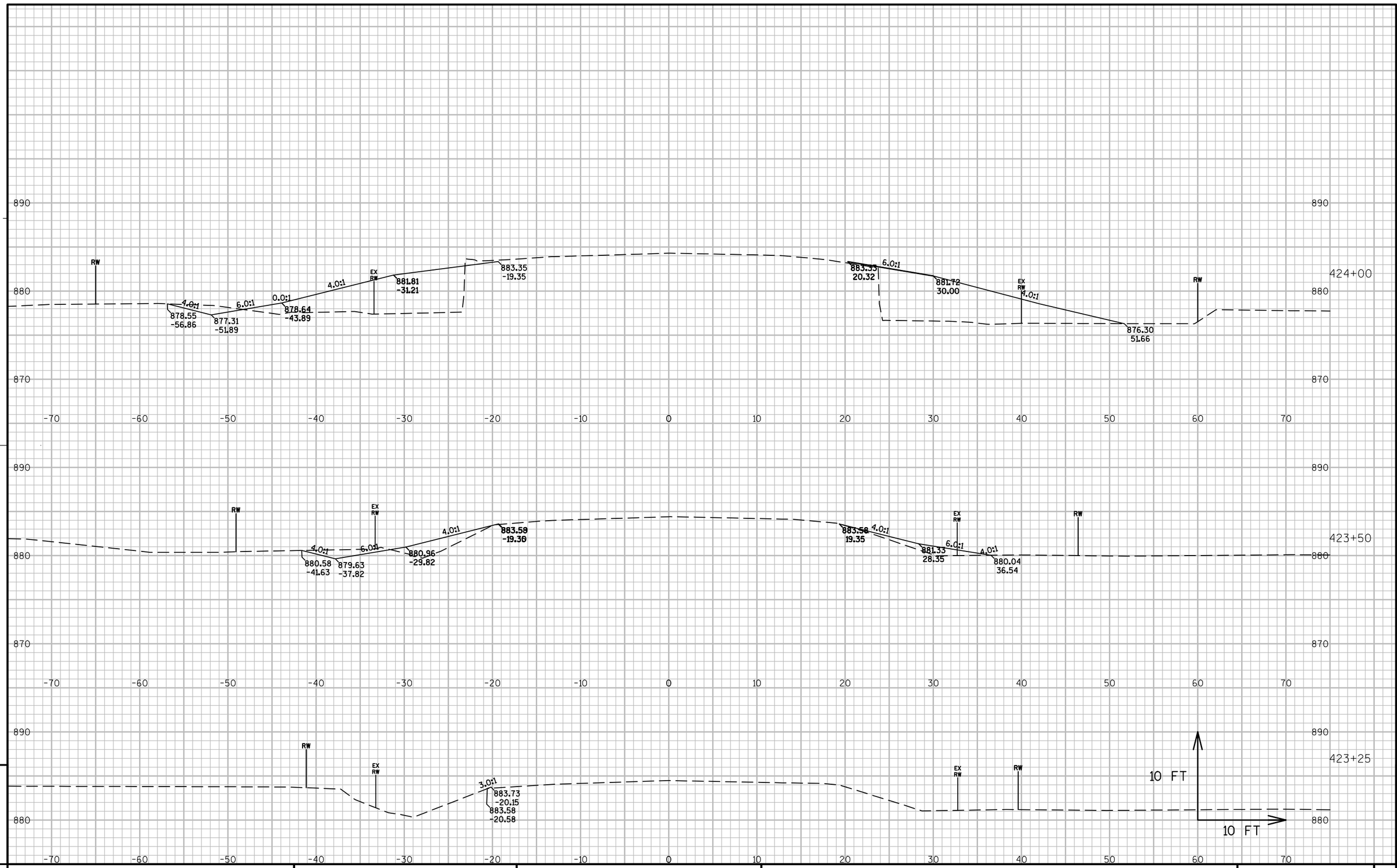
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 339	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSLYNNPRLIM.DWG PLOT DATE : 10/27/2016 1:53 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

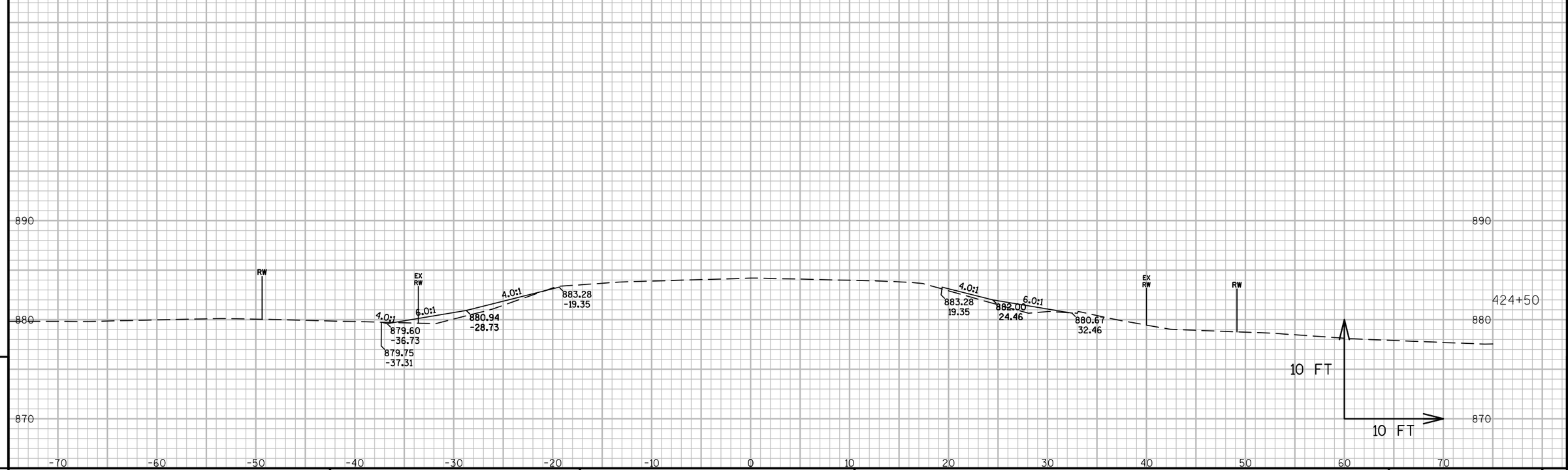


PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 340	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS424-NEW.DWG PLOT DATE : 10/17/2016 5:51 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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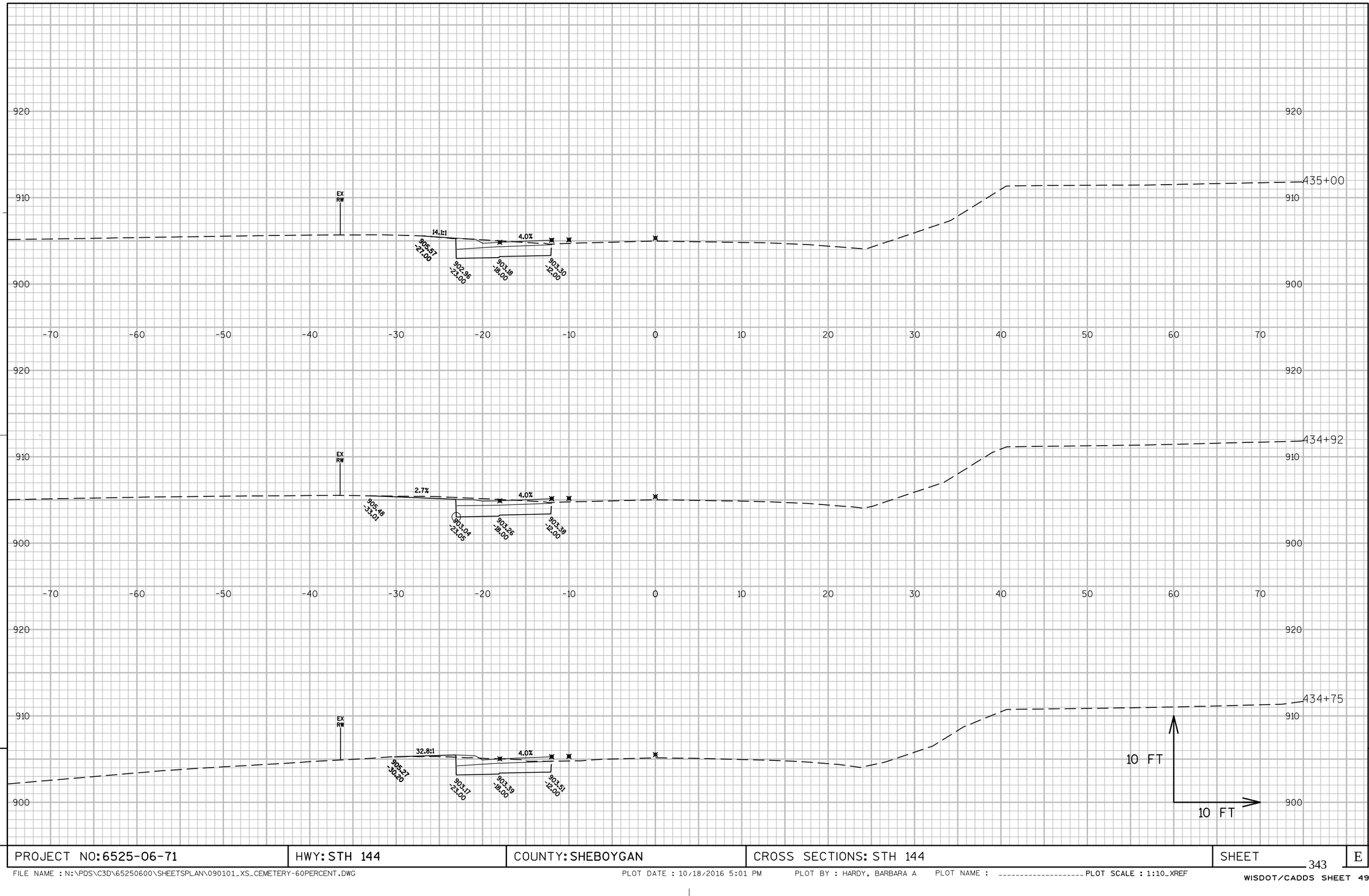
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

9

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS424-NEW.DWG PLOT DATE : 10/17/2016 5:51 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1 IN:10 FT

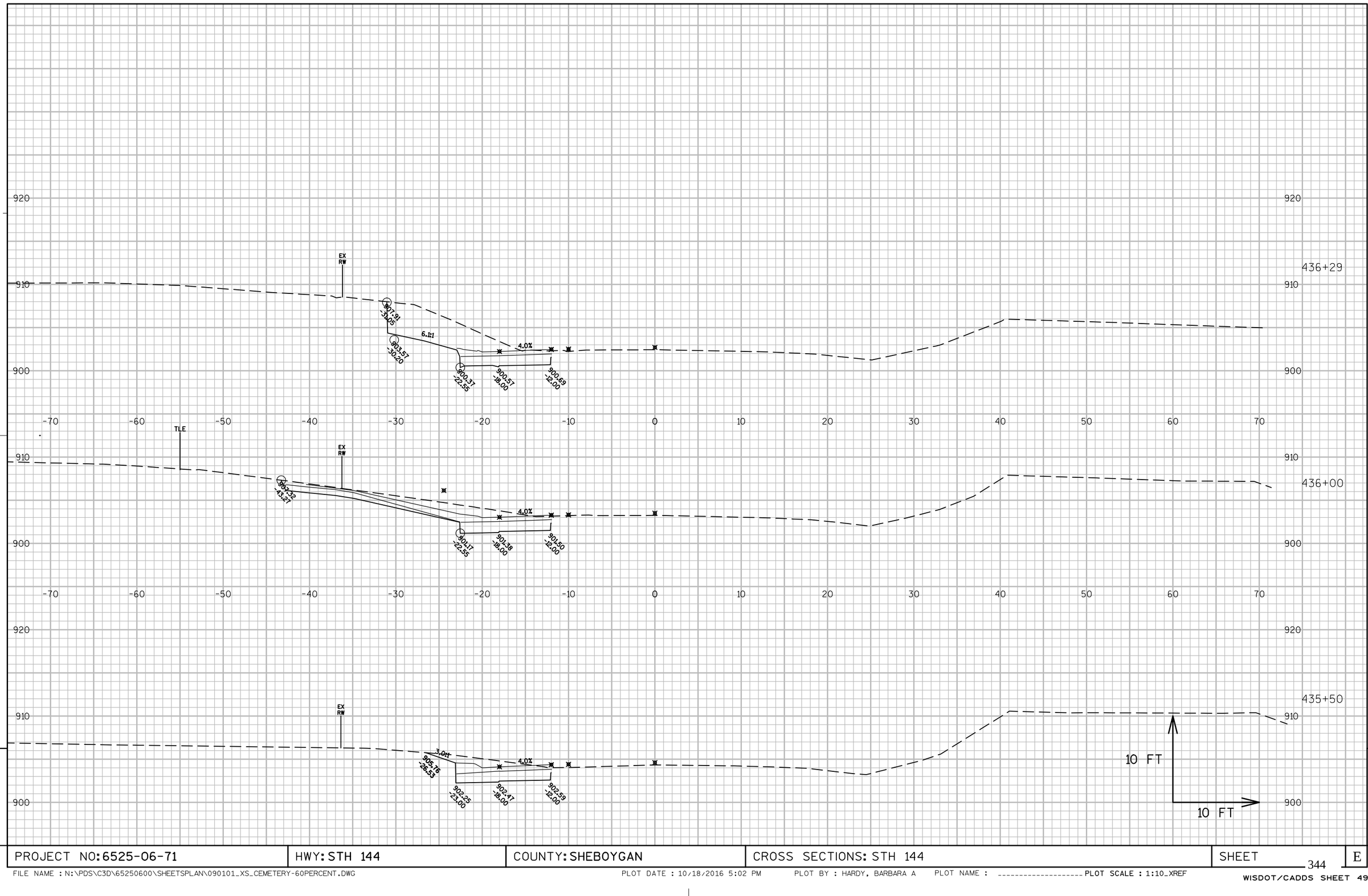
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS_CEMETERY-60PERCENT.DWG PLOT DATE : 10/18/2016 5:01 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

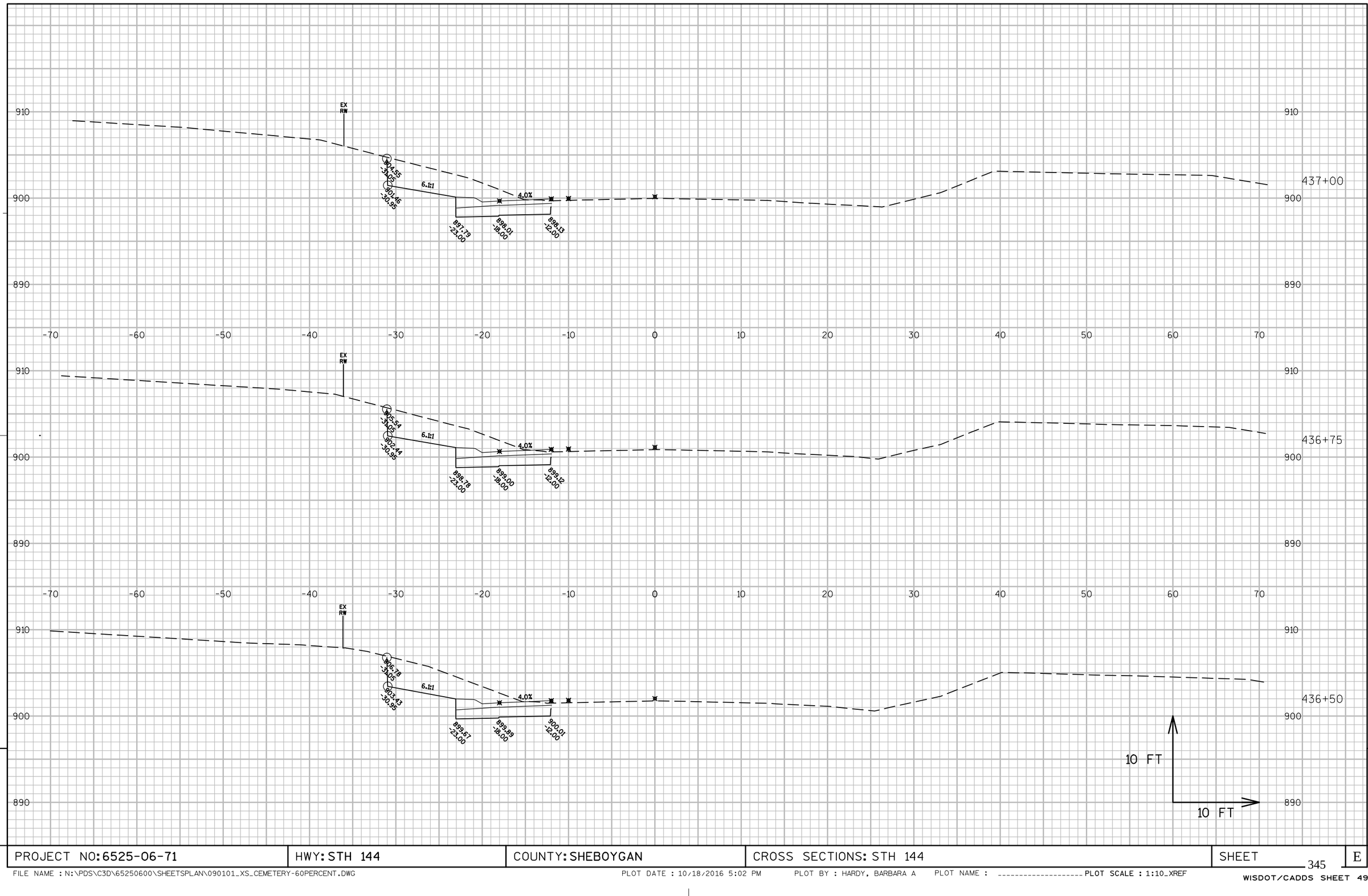
WISDOT/CADDS SHEET 49



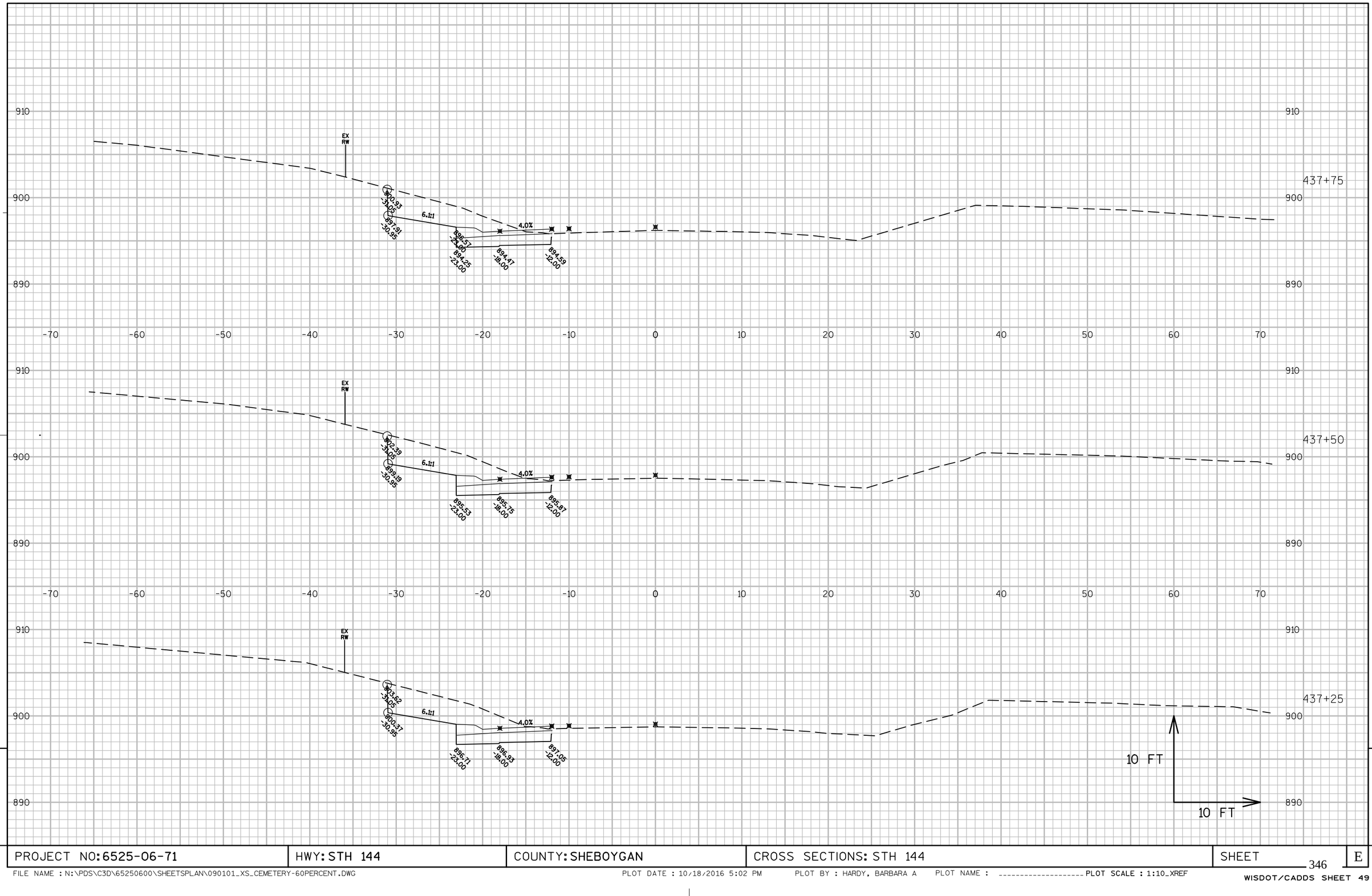
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 344	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS_CEMETERY-60PERCENT.DWG PLOT DATE : 10/18/2016 5:02 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

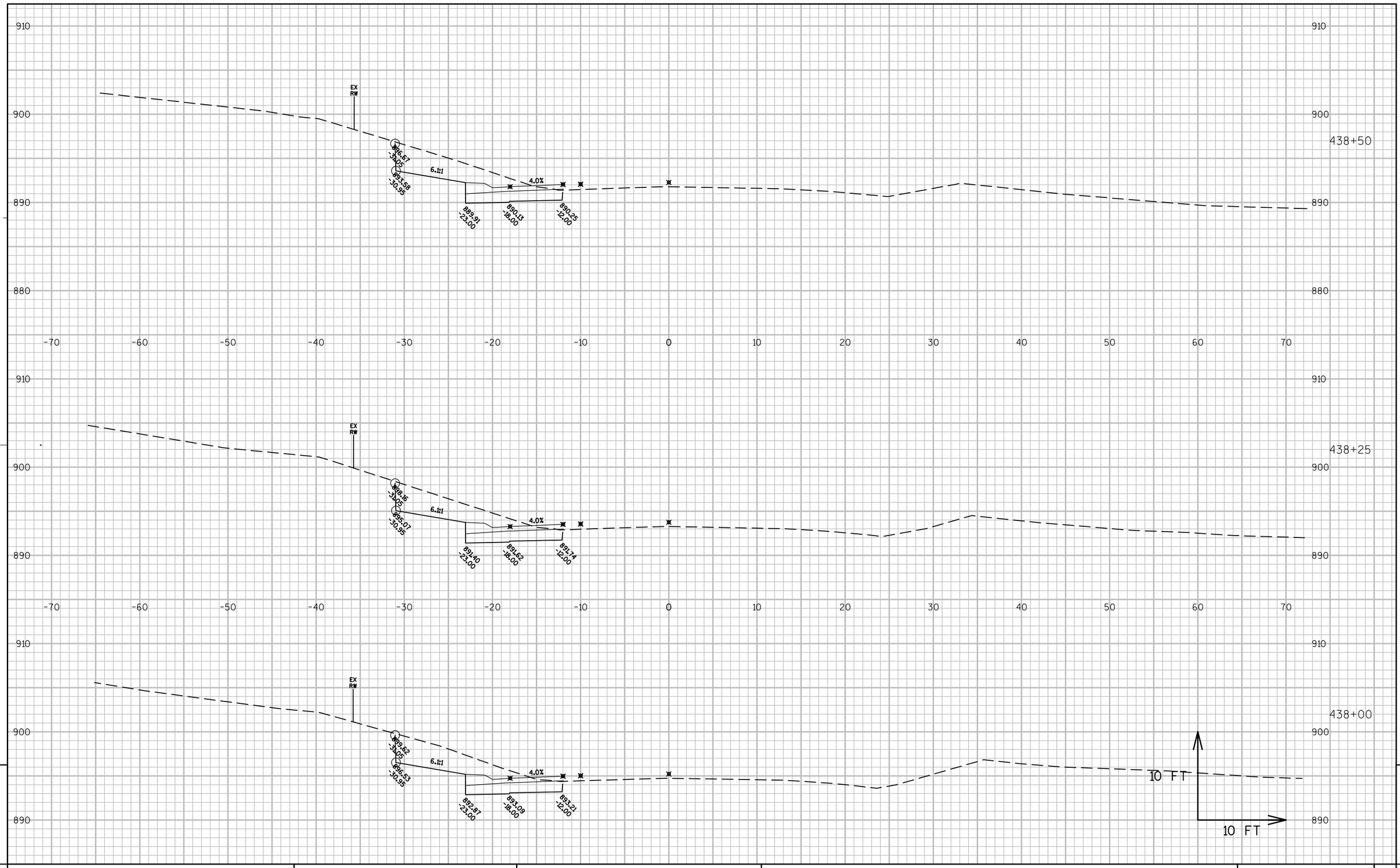
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 345	E



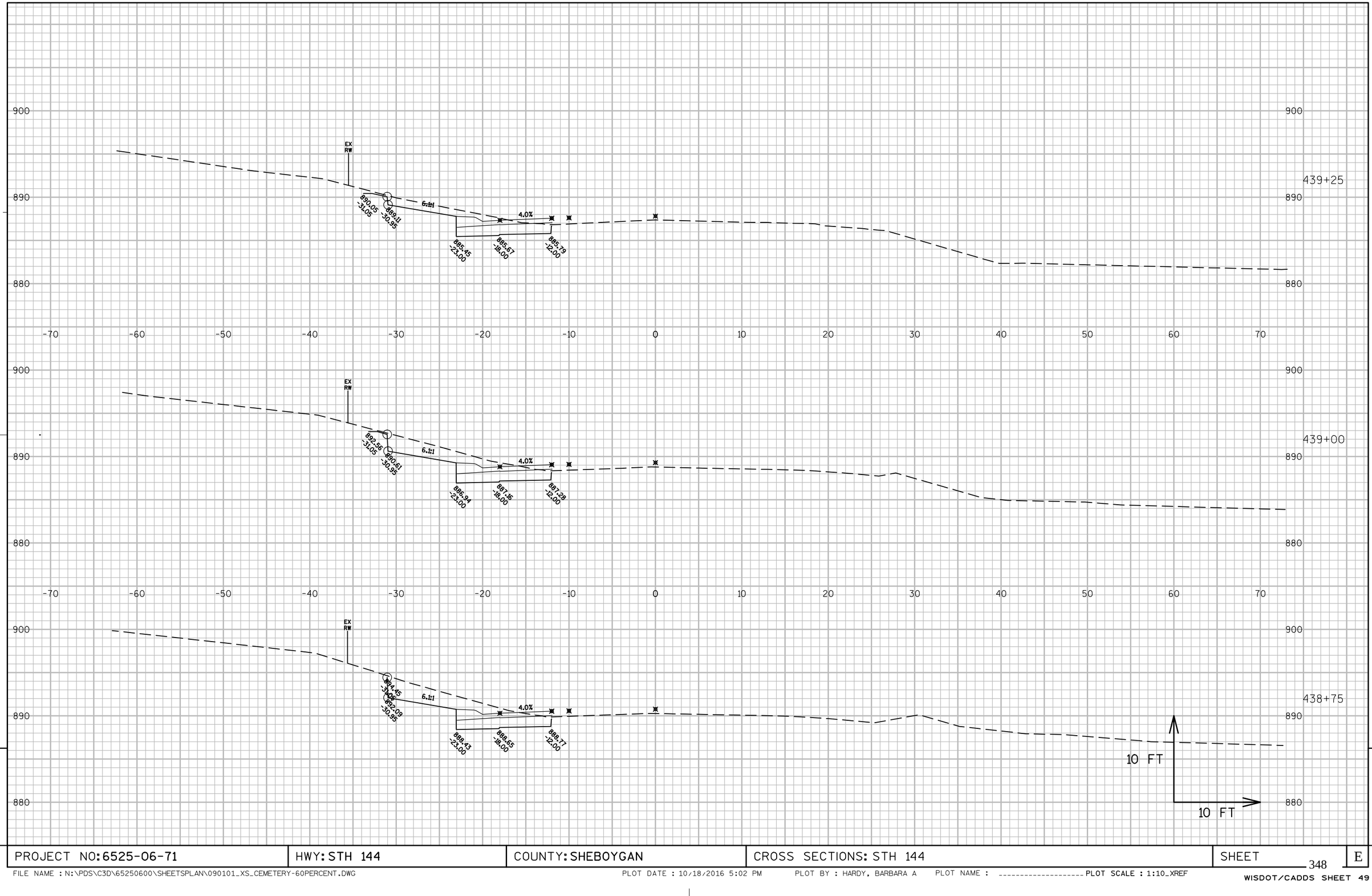
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 346	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 347	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS_CEMETERY-60PERCENT.DWG PLOT DATE : 10/18/2016 5:02 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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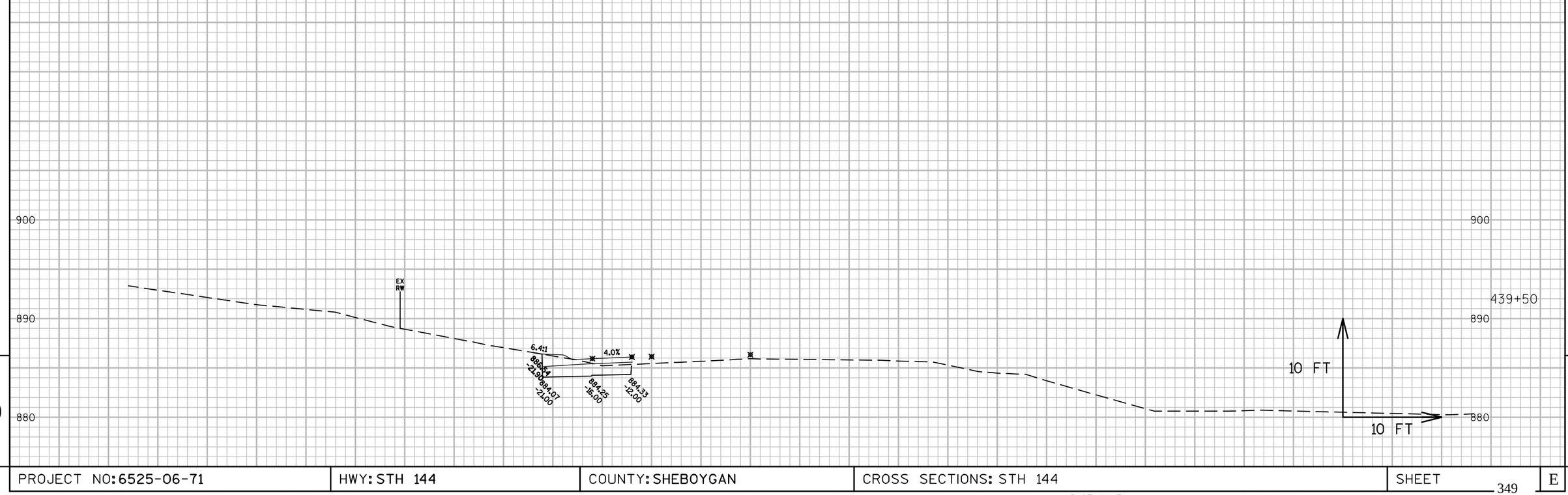
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 348	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS_CEMETERY-60PERCENT.DWG PLOT DATE : 10/18/2016 5:02 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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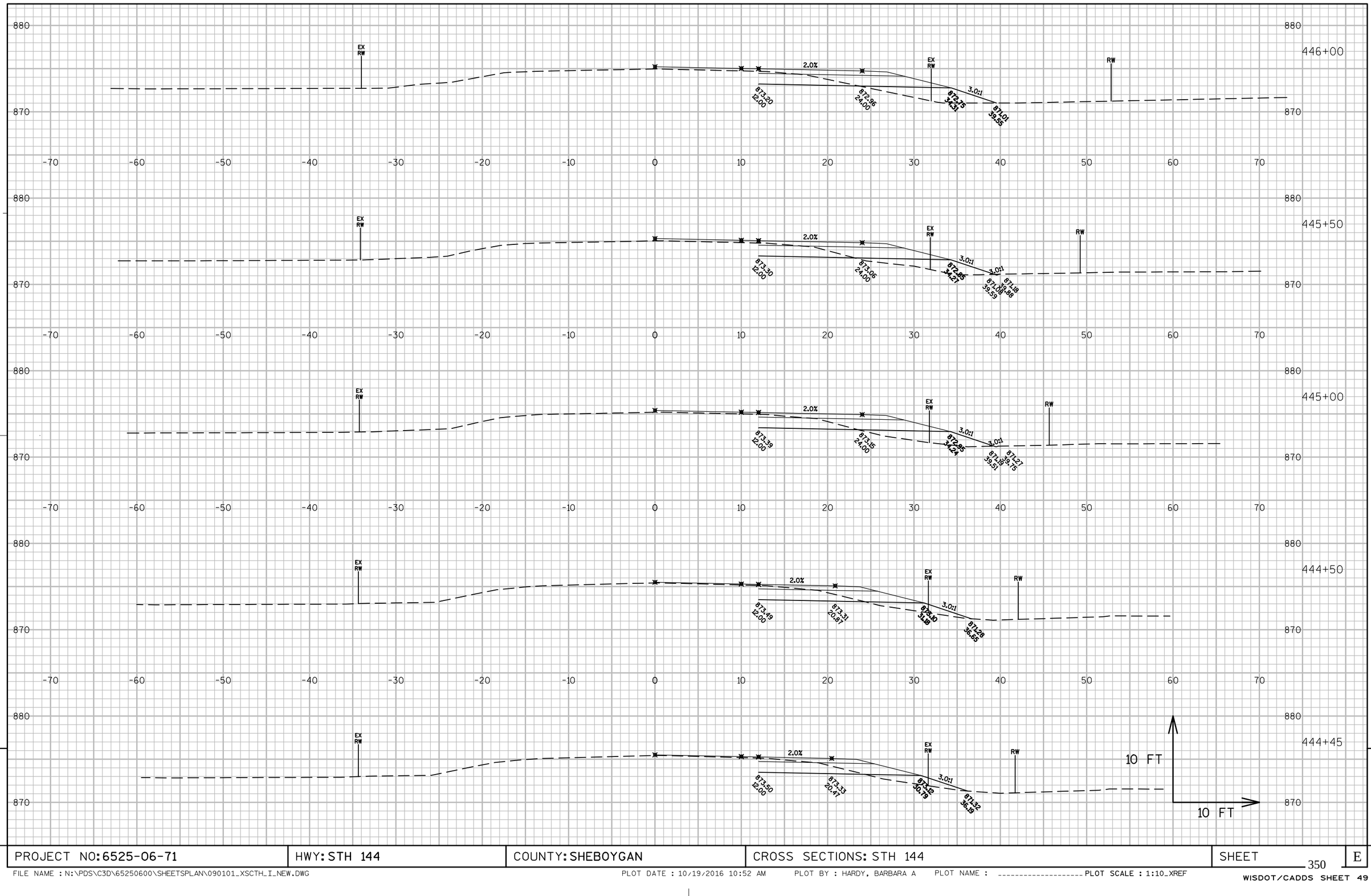
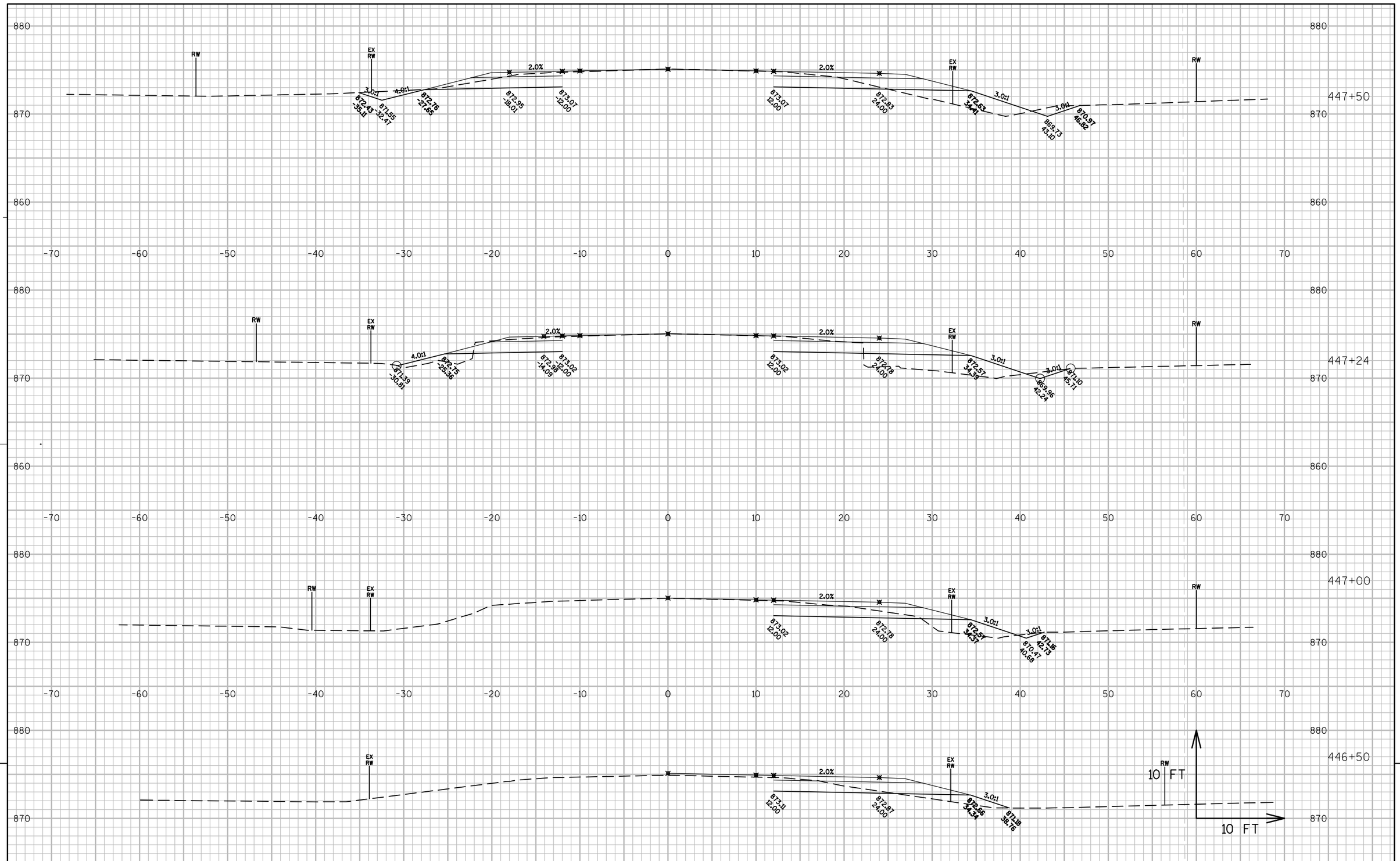
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 349	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 350	E



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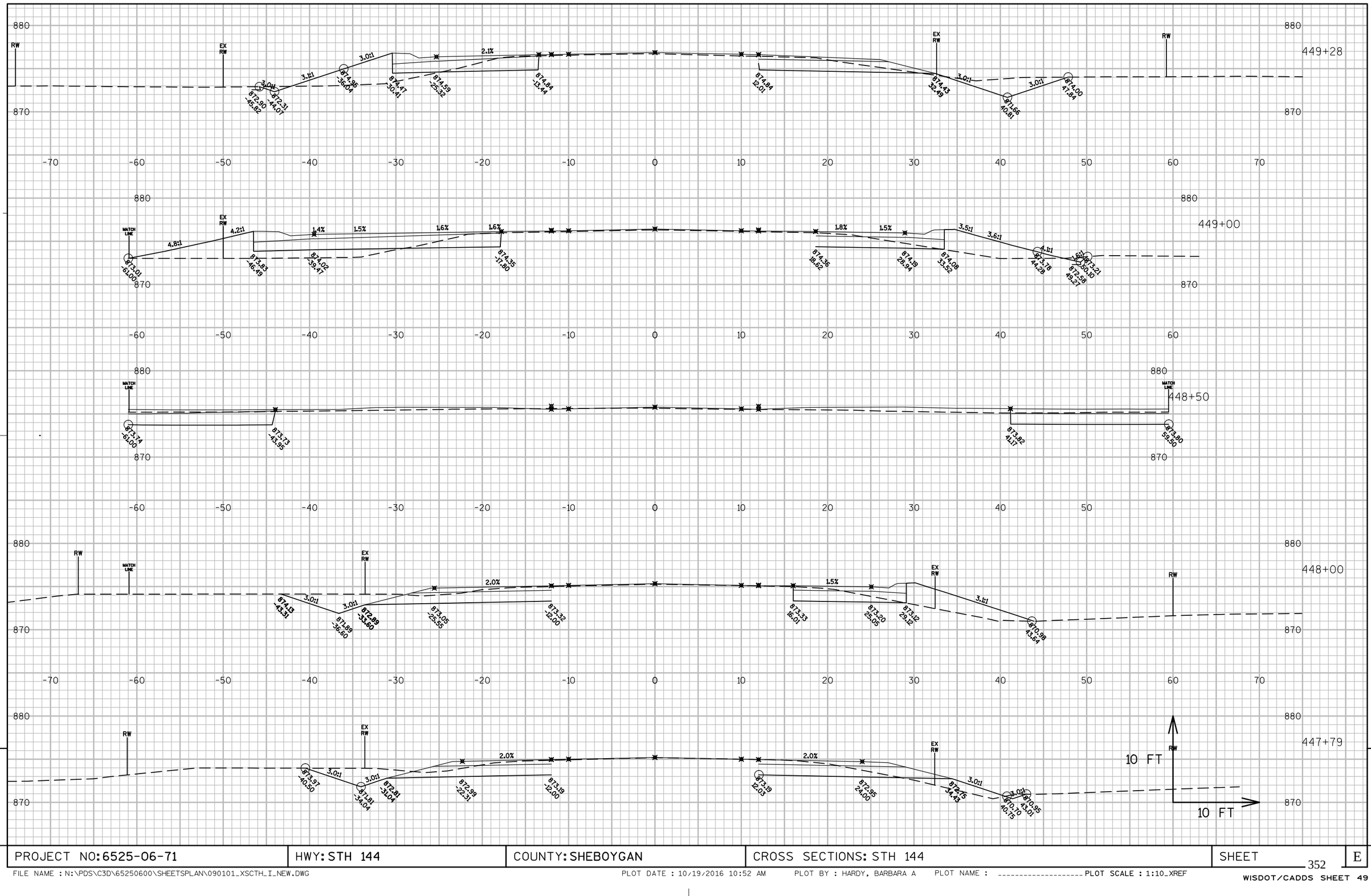
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSCTH_I_NEW.DWG PLOT DATE : 10/19/2016 10:52 AM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

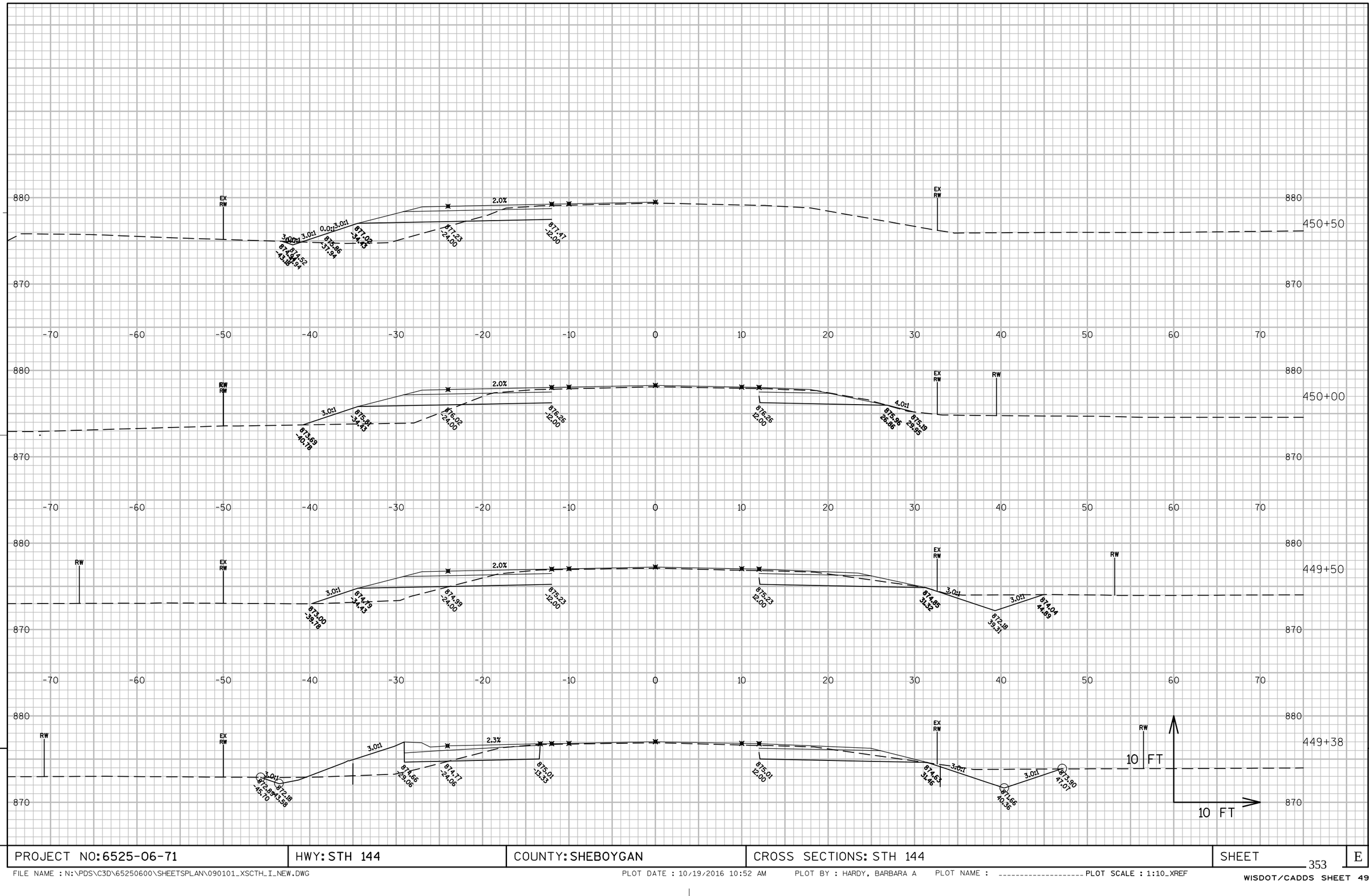
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 352	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSCTH_I_NEW.DWG PLOT DATE : 10/19/2016 10:52 AM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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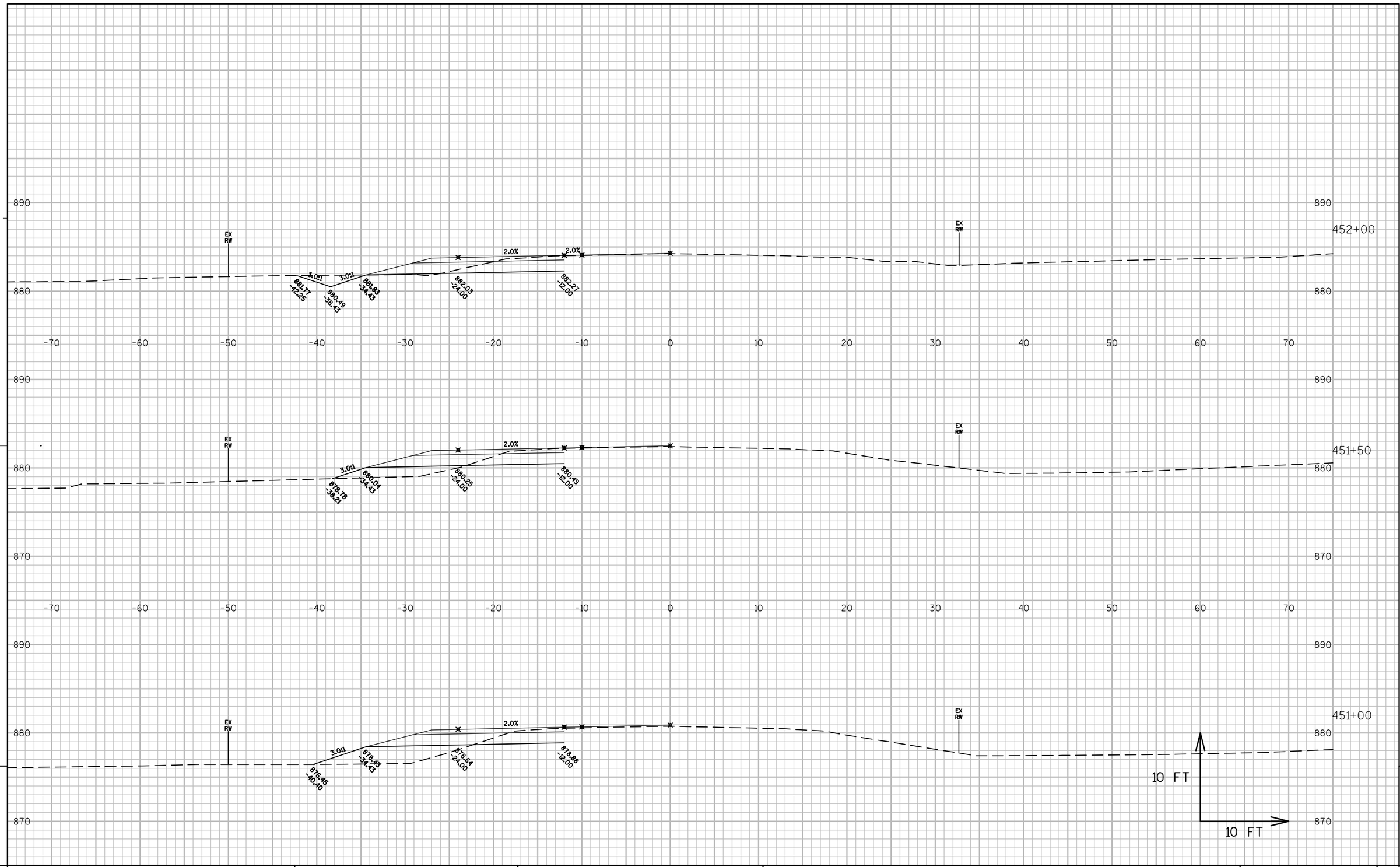
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 353	E

9

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSCTH_I_NEW.DWG PLOT DATE : 10/19/2016 10:52 AM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

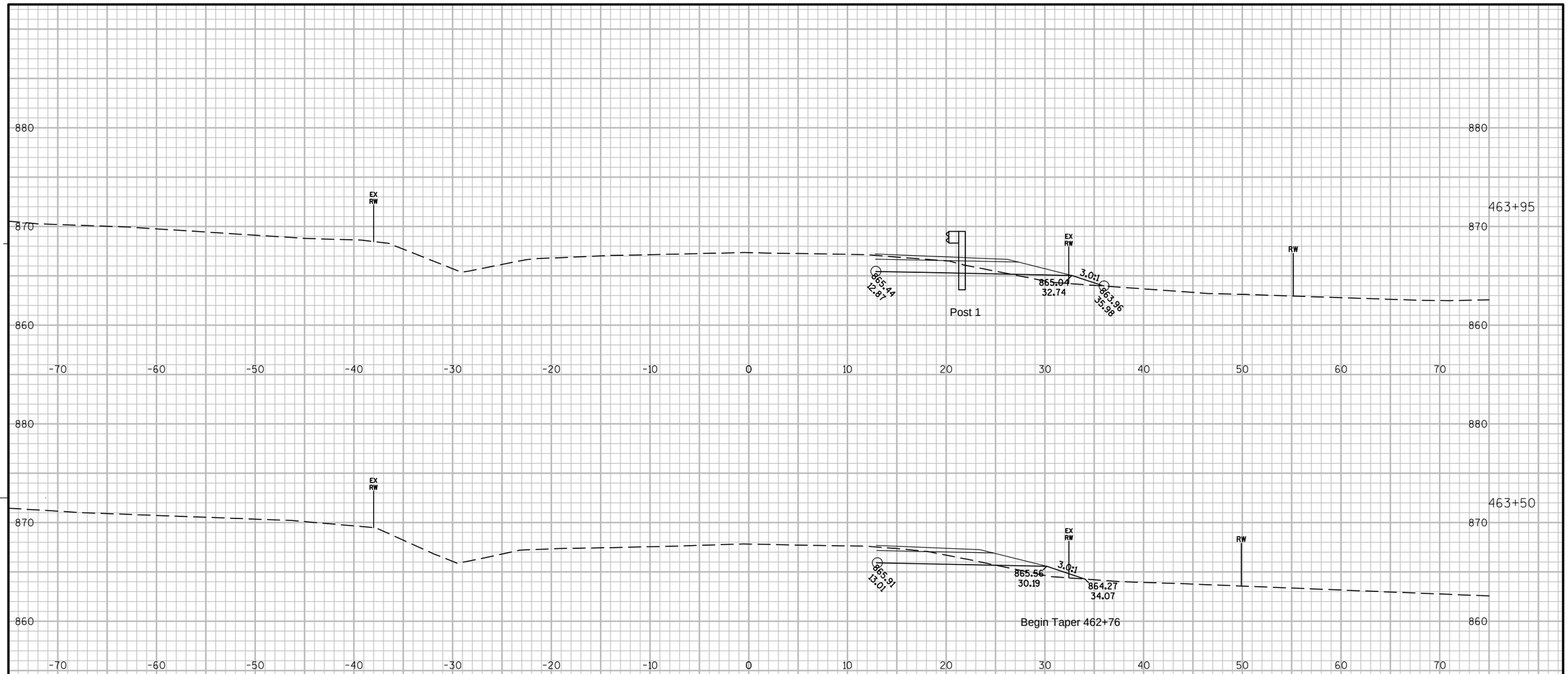
WISDOT/CADDS SHEET 49



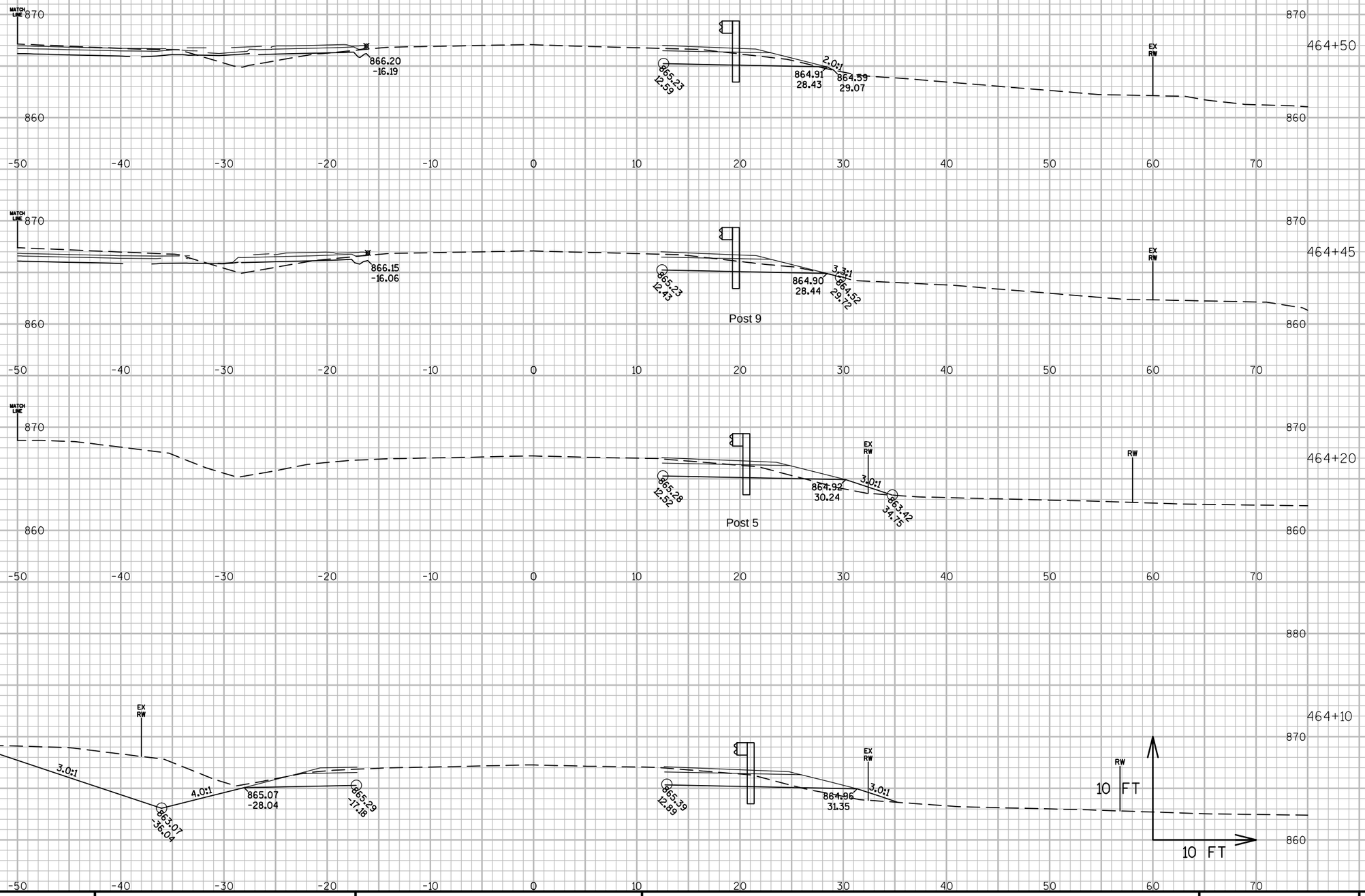
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 354	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSCTH_I_NEW.DWG PLOT DATE : 10/19/2016 10:53 AM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E



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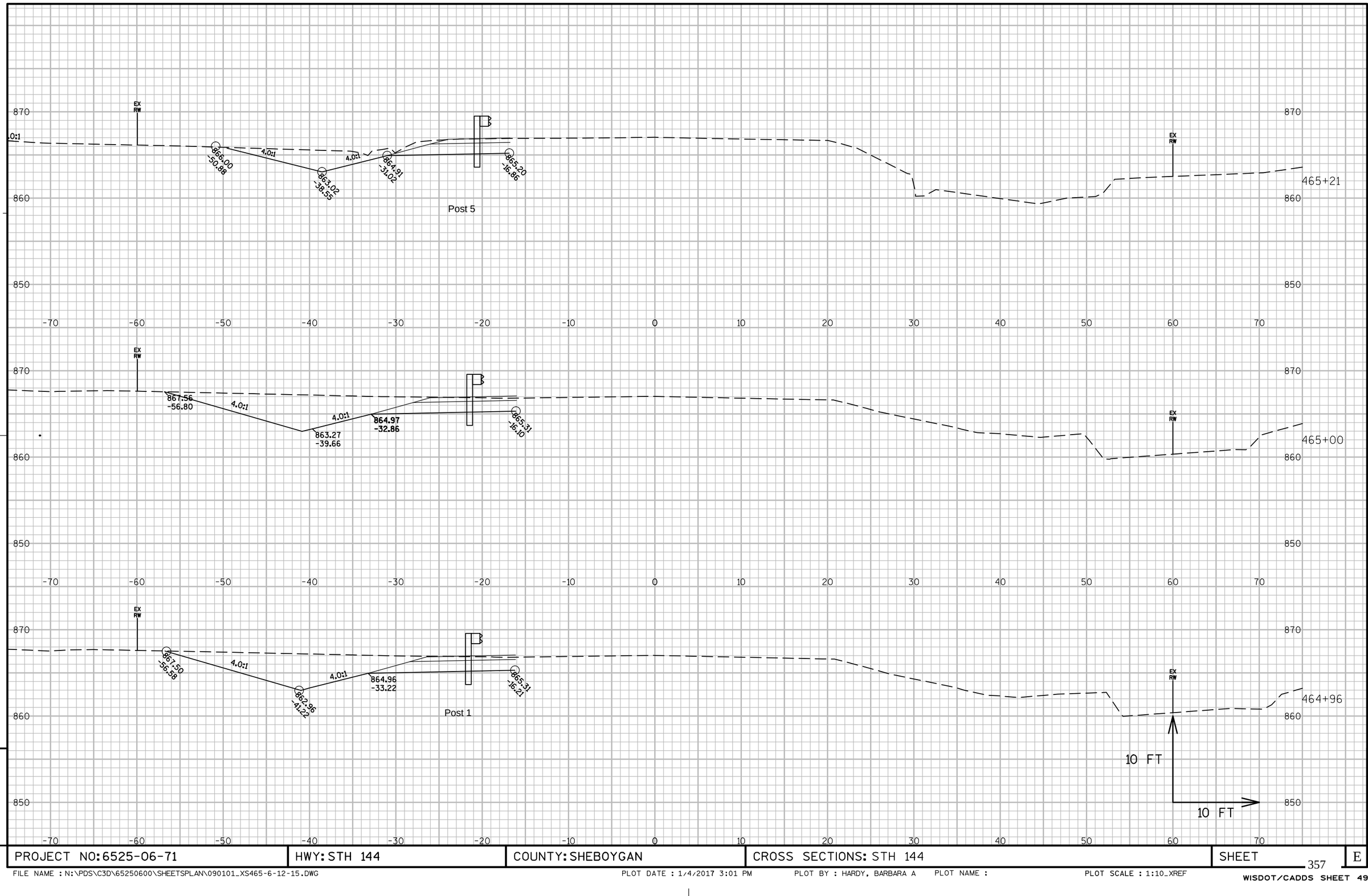
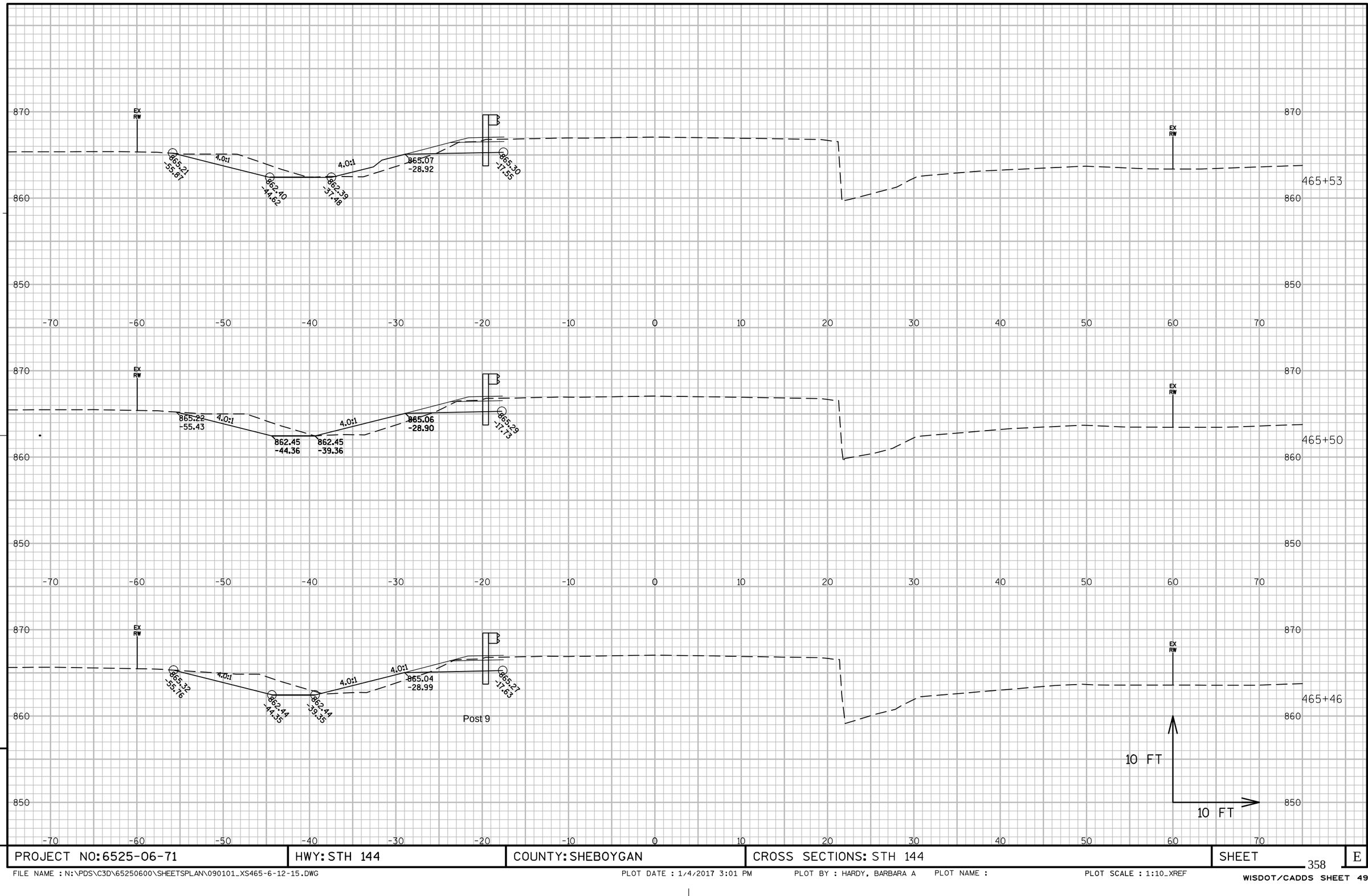
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E



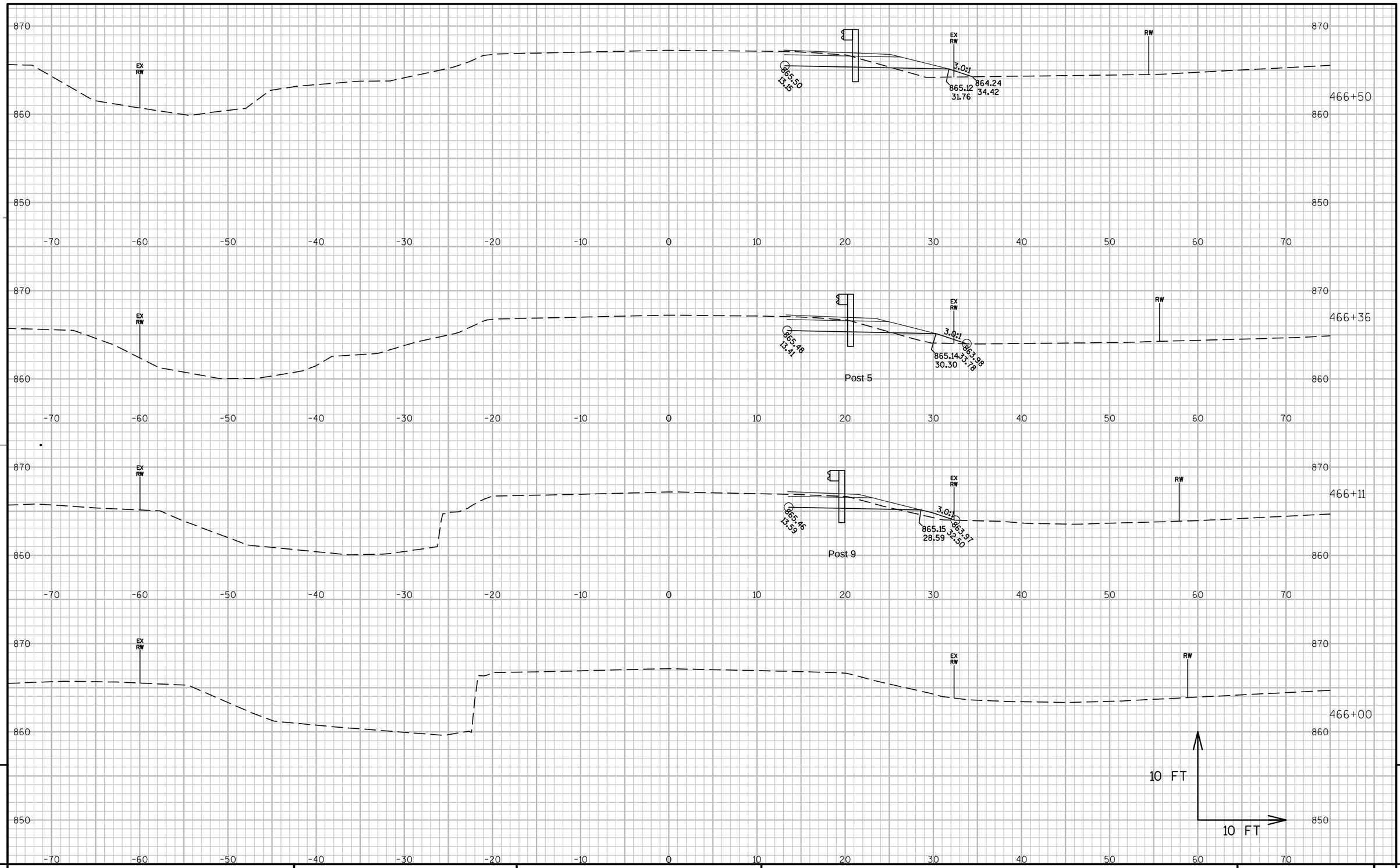
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 357	E



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 358	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS465-6-12-15.DWG PLOT DATE : 1/4/2017 3:01 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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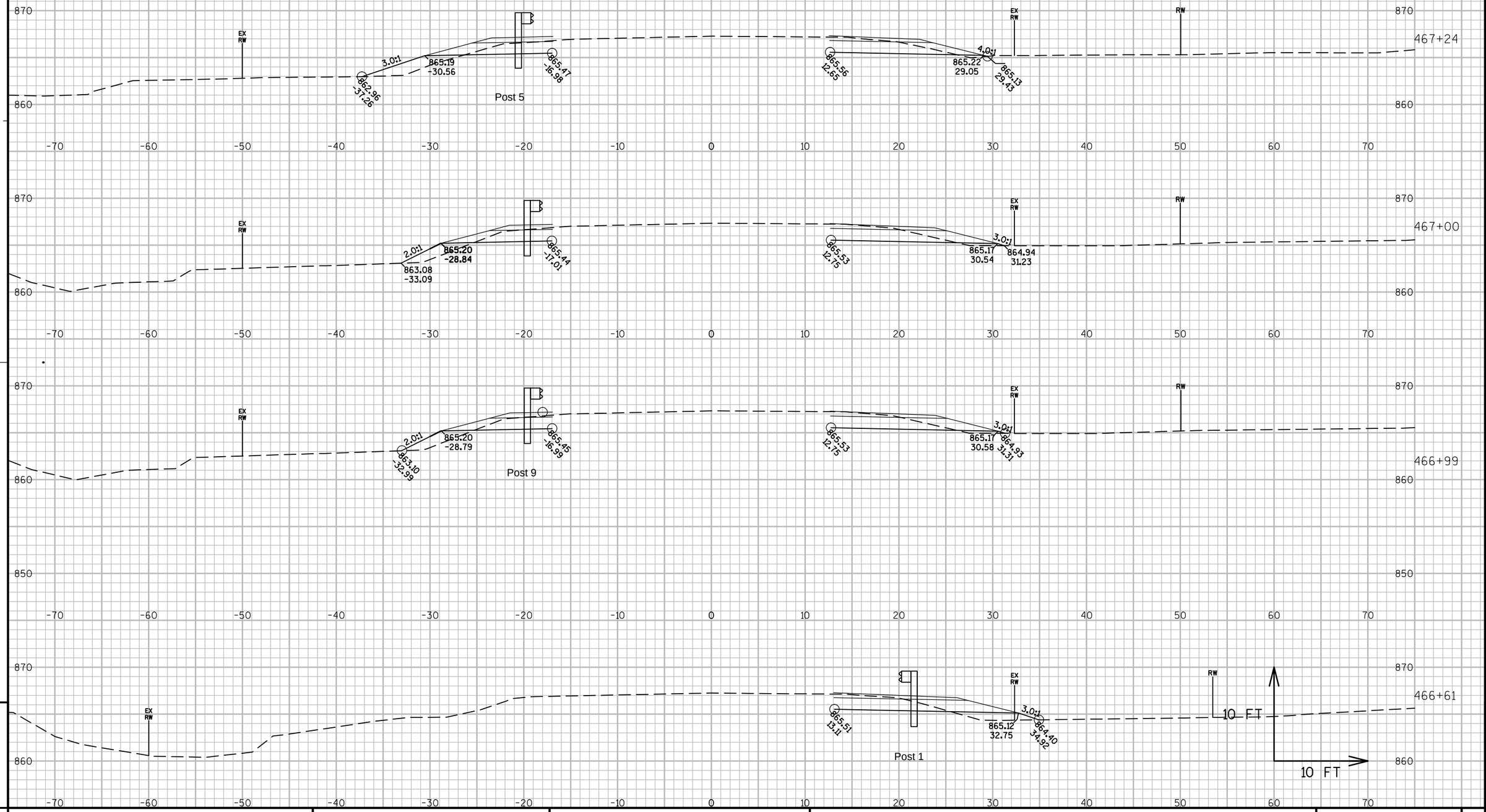
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 359	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS465-6-12-15.DWG PLOT DATE : 1/4/2017 3:01 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

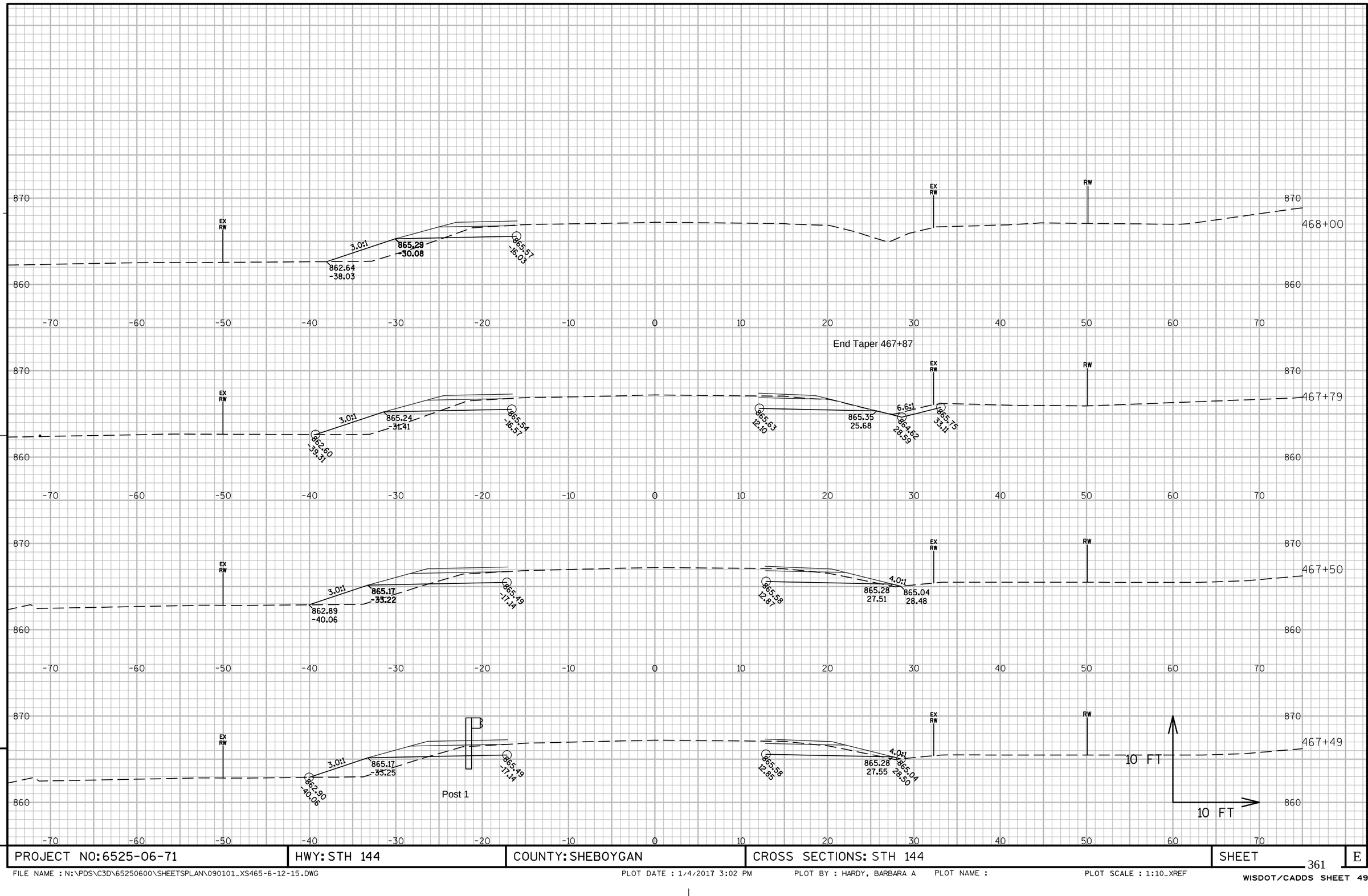
WISDOT/CADDS SHEET 49



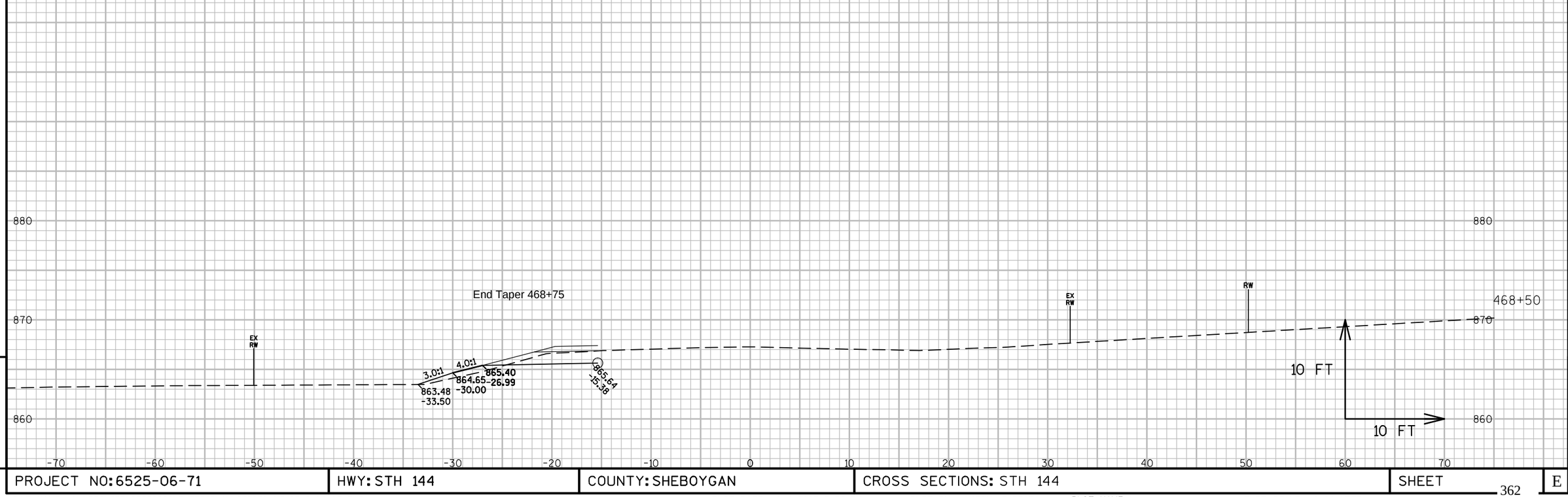
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 360	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS465-6-12-15.DWG PLOT DATE : 1/4/2017 3:02 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 361	E



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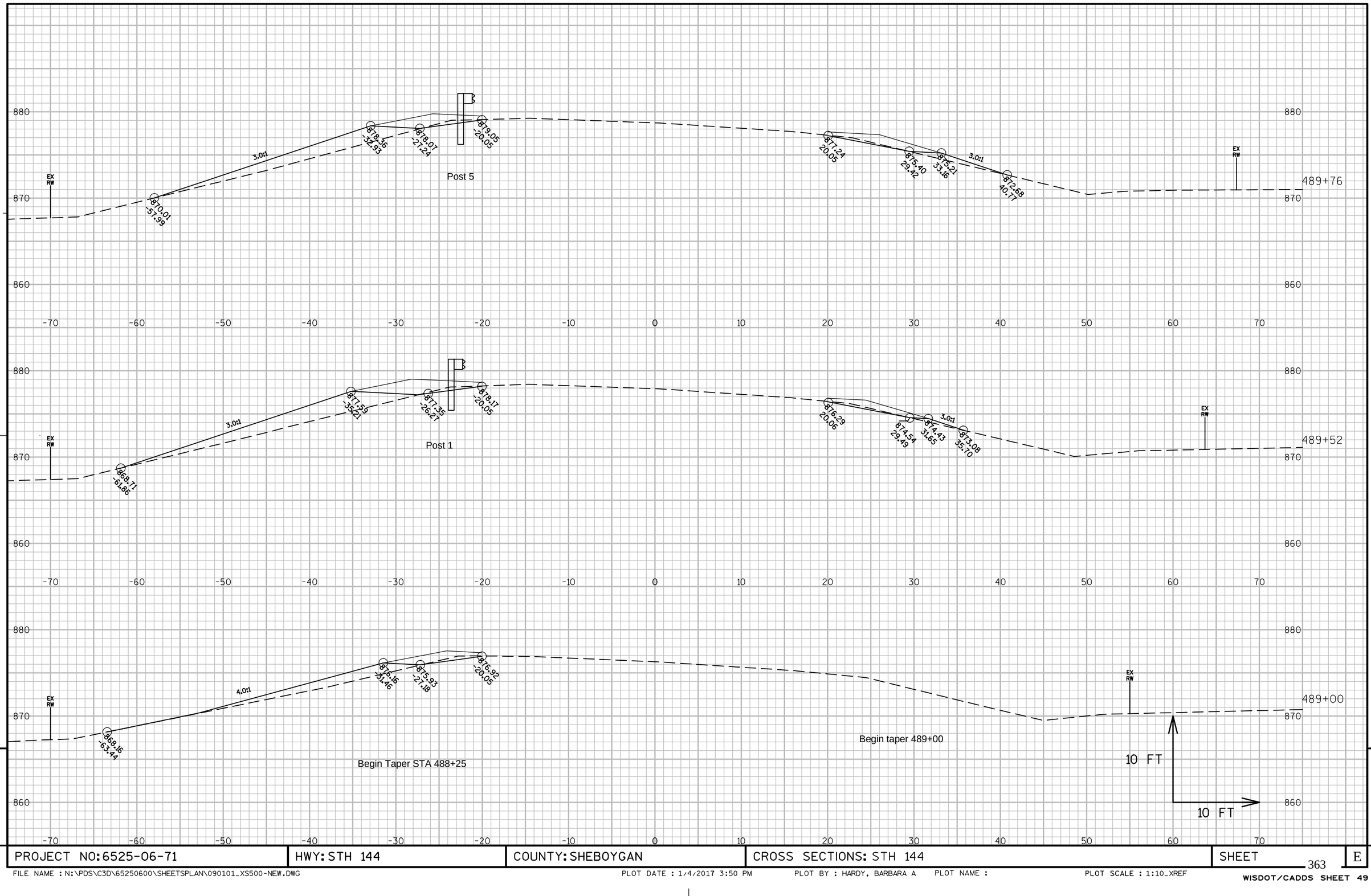
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 362	E



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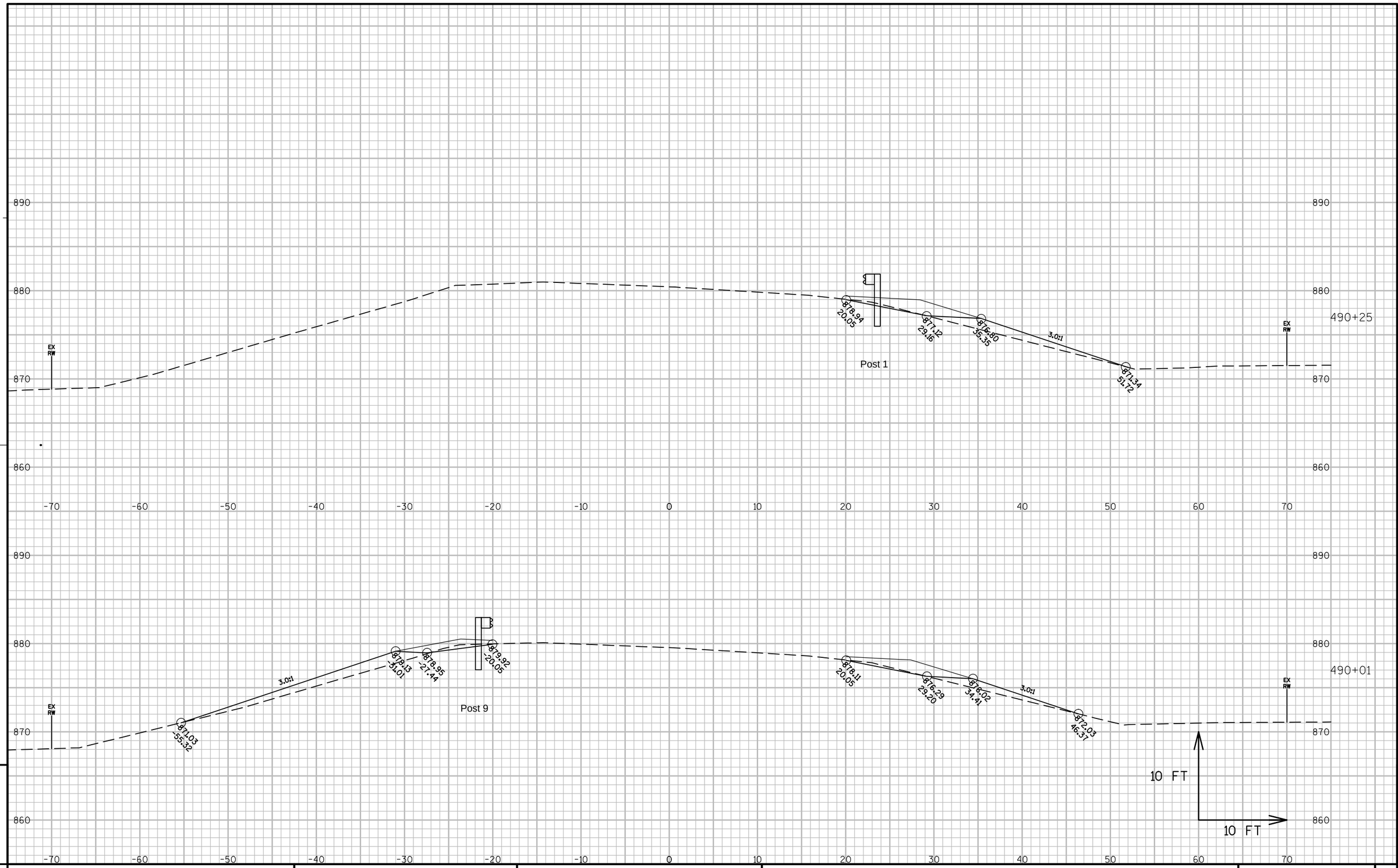

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

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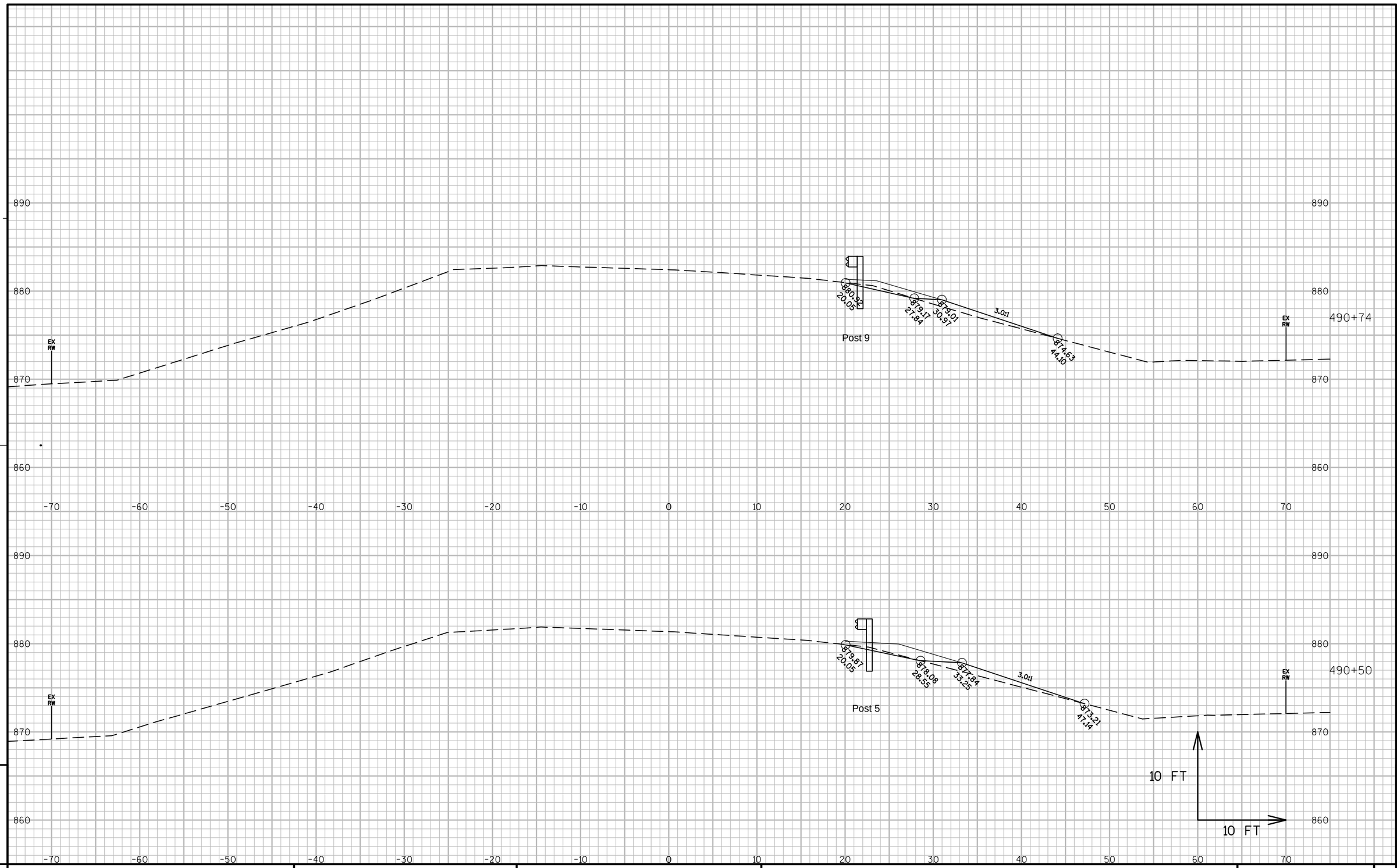
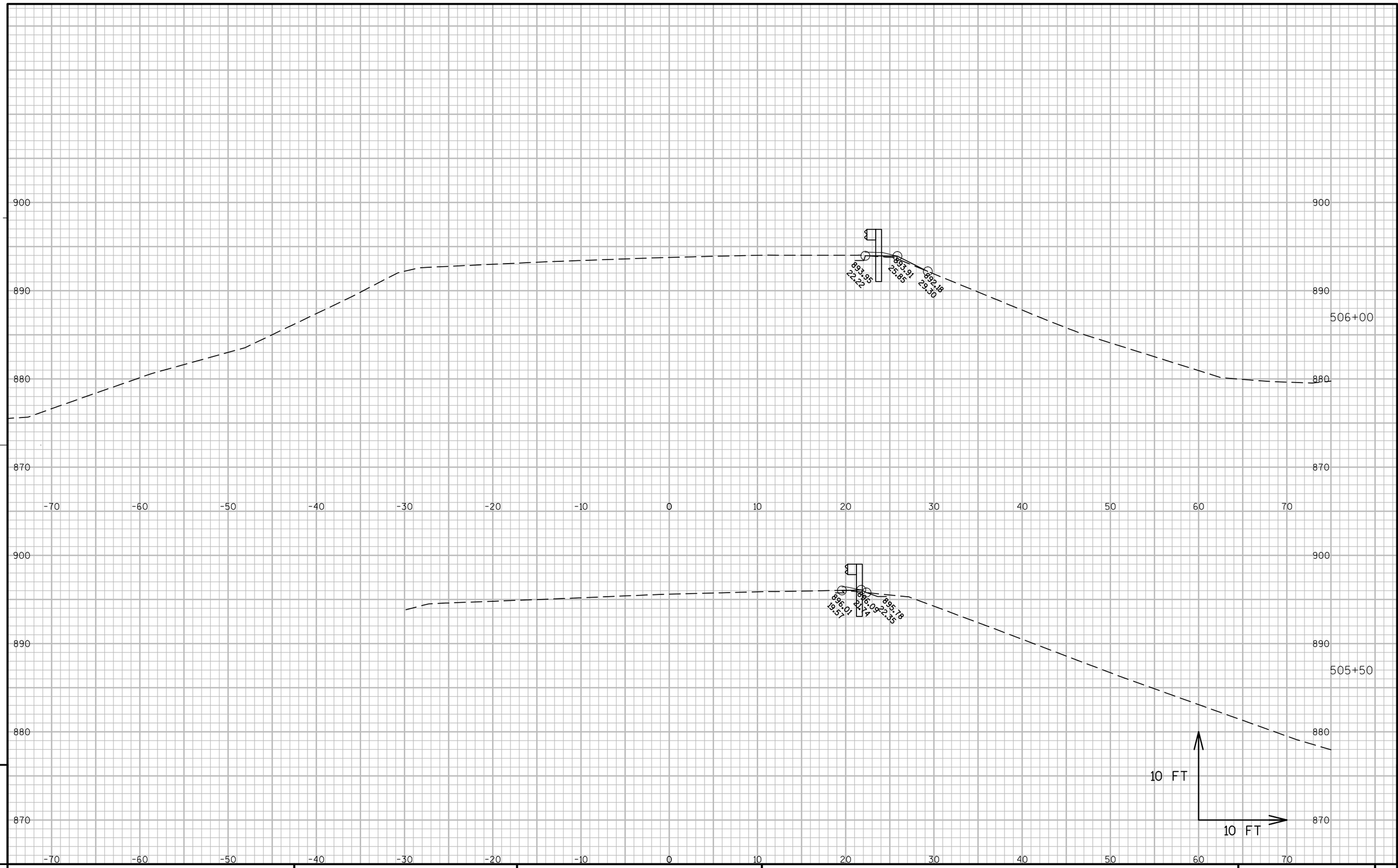
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E



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PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS500-NEW.DWG PLOT DATE : 1/4/2017 4:13 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

507+50

874.33
-70.47

3.0:1

884.06
-41.25

884.49
-30.13

507+00

506+50

890.87
36.46

890.24
46.52

890.83
63.18

10 FT

10 FT

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS500-NEW.DWG PLOT DATE : 1/4/2017 4:14 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

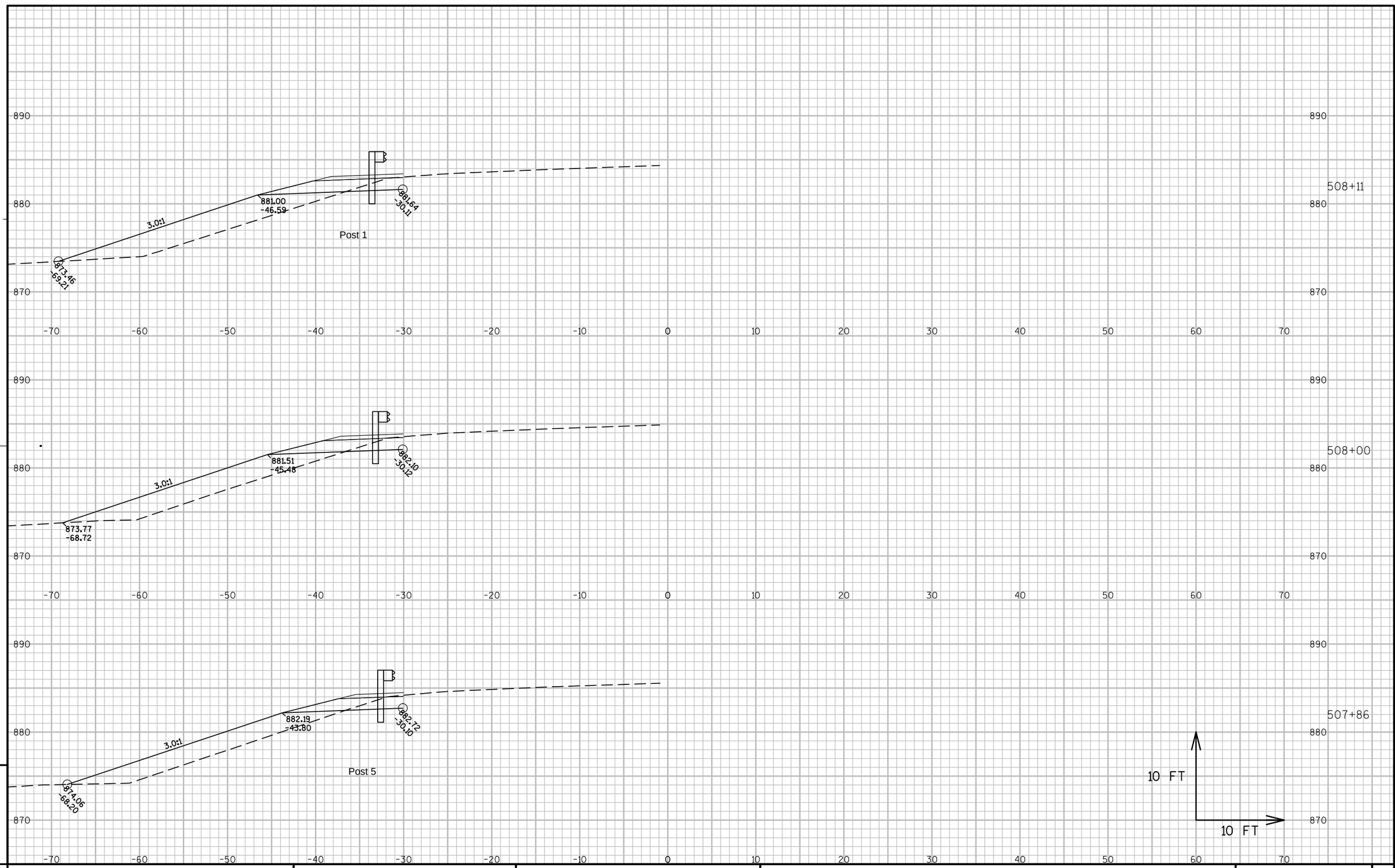
9

9

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS500-NEW.DWG PLOT DATE : 1/4/2017 4:14 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

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FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS500-NEW.DWG PLOT DATE : 1/4/2017 4:14 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

End Taper STA 509+37

509+00

508+50

508+24

3.0:1
875.52
-42.03
876.93
-37.79
877.35
-26.86

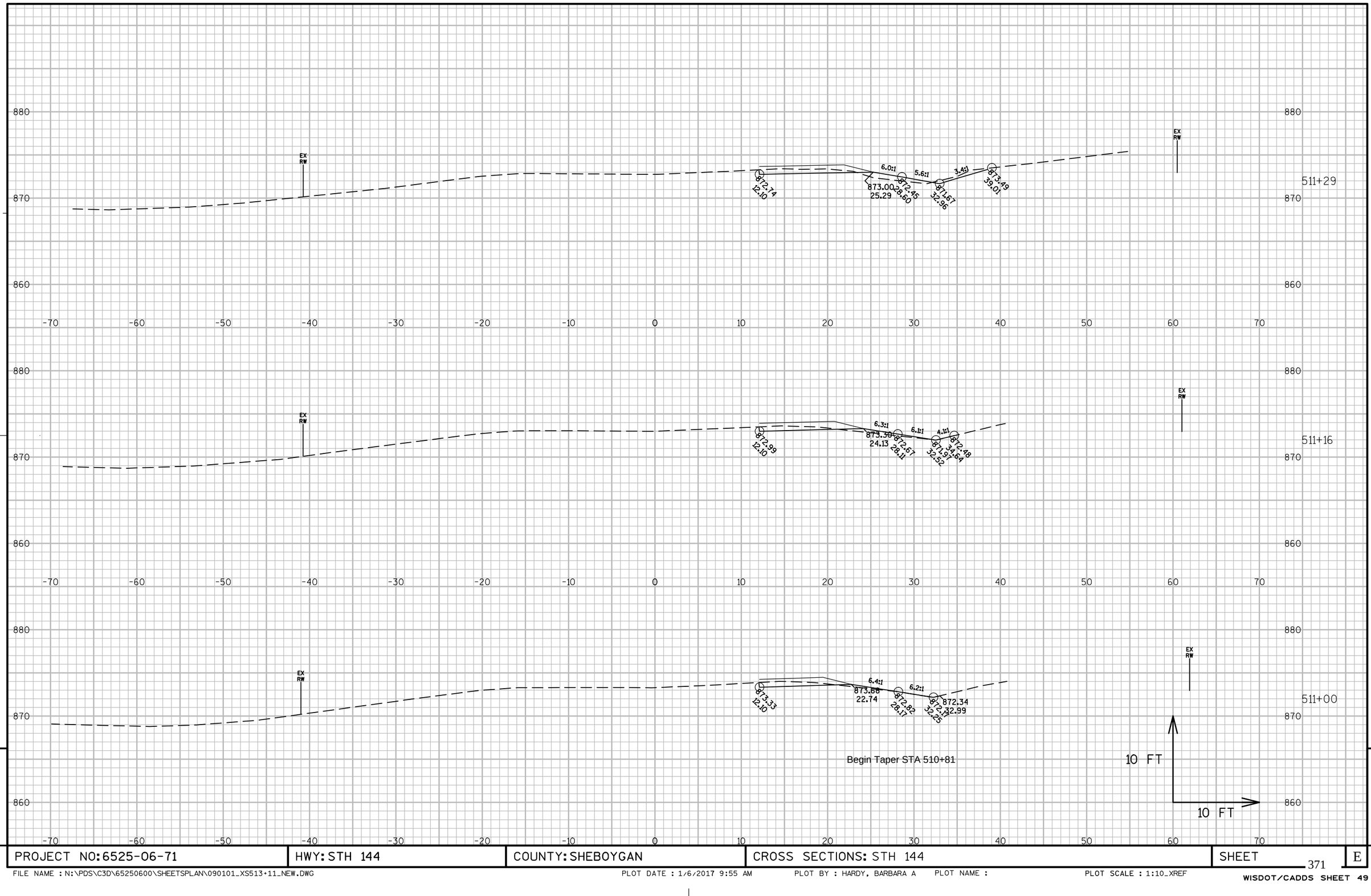
3.0:1
873.32
-60.97
879.23
-43.26
879.75
-29.86

3.0:1
873.39
-66.87
880.44
-45.71
881.04
-30.44

10 FT
10 FT

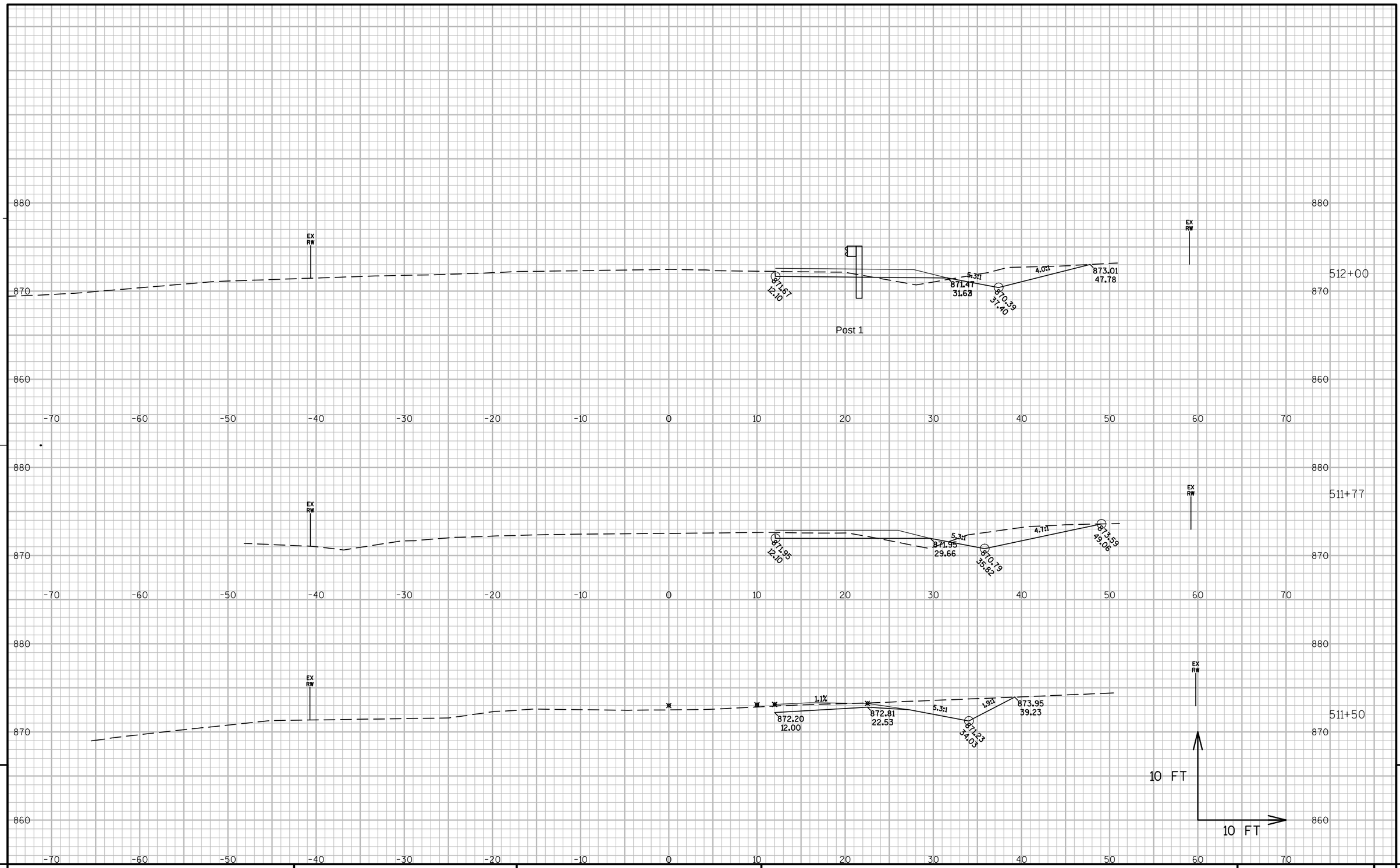
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS500-NEW.DWG
PLOT DATE : 1/4/2017 4:14 PM
PLOT BY : HARDY, BARBARA A
PLOT NAME :
PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS513+11_NEW.DWG PLOT DATE : 1/6/2017 9:55 AM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS513+11_NEW.DWG PLOT DATE : 1/6/2017 9:55 AM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

513+00

880
870
860
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

EX RW
RW
4.0:1
871.47
-20.05
871.14
-21.40
EX RW

512+50

EX RW
871.29
12.40
871.08
23.65
5.3:1
869.65
31.05
3.9:1
872.58
42.38
EX RW

Post 9

512+24

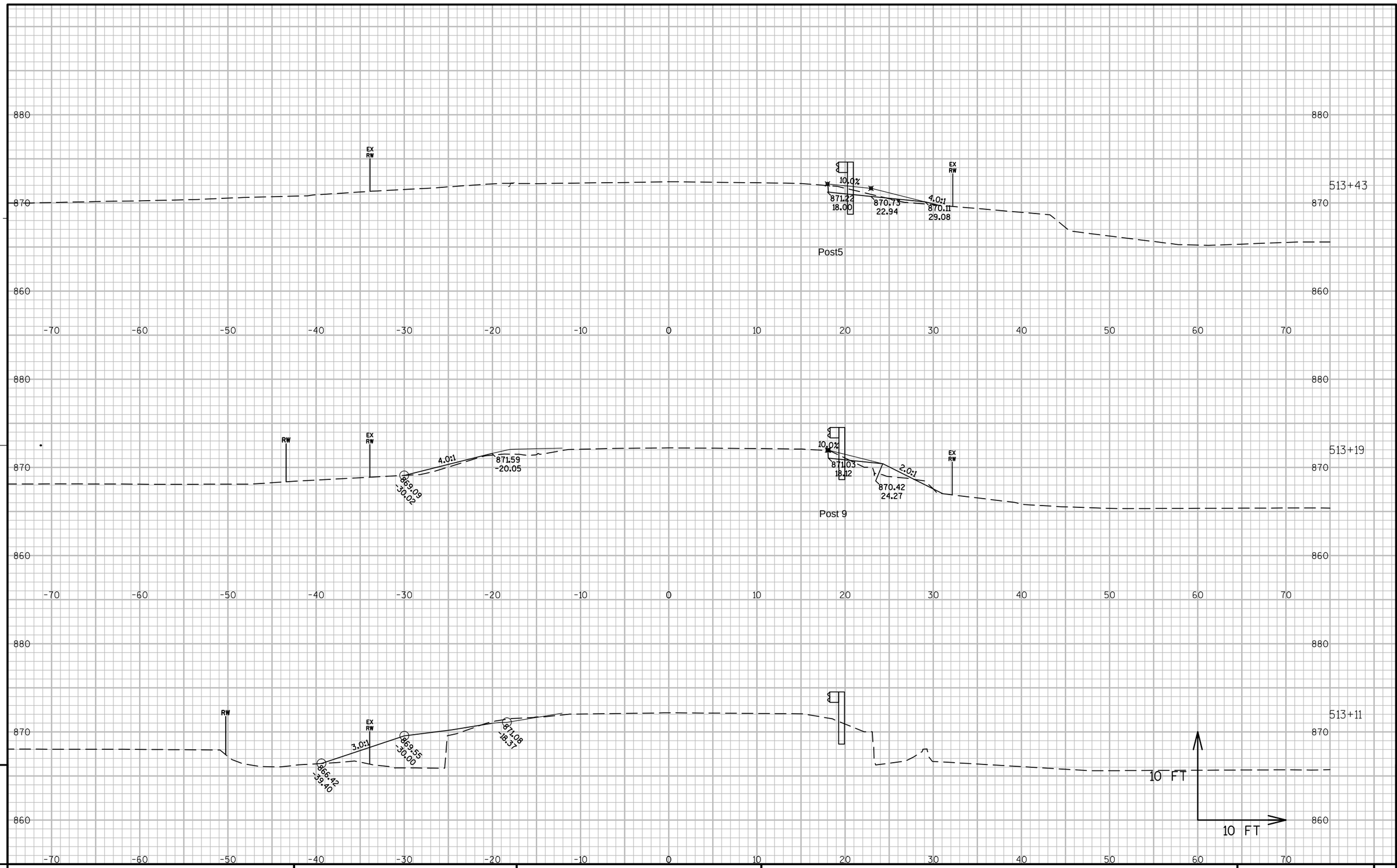
EX RW
871.45
12.10
871.12
28.26
4.5:1
869.93
32.44
4.0:1
873.24
45.80
EX RW

Post 5

10 FT
10 FT

PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS513+11_NEW.DWG
PLOT DATE : 1/6/2017 9:55 AM
PLOT BY : HARDY, BARBARA A
PLOT NAME :
PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



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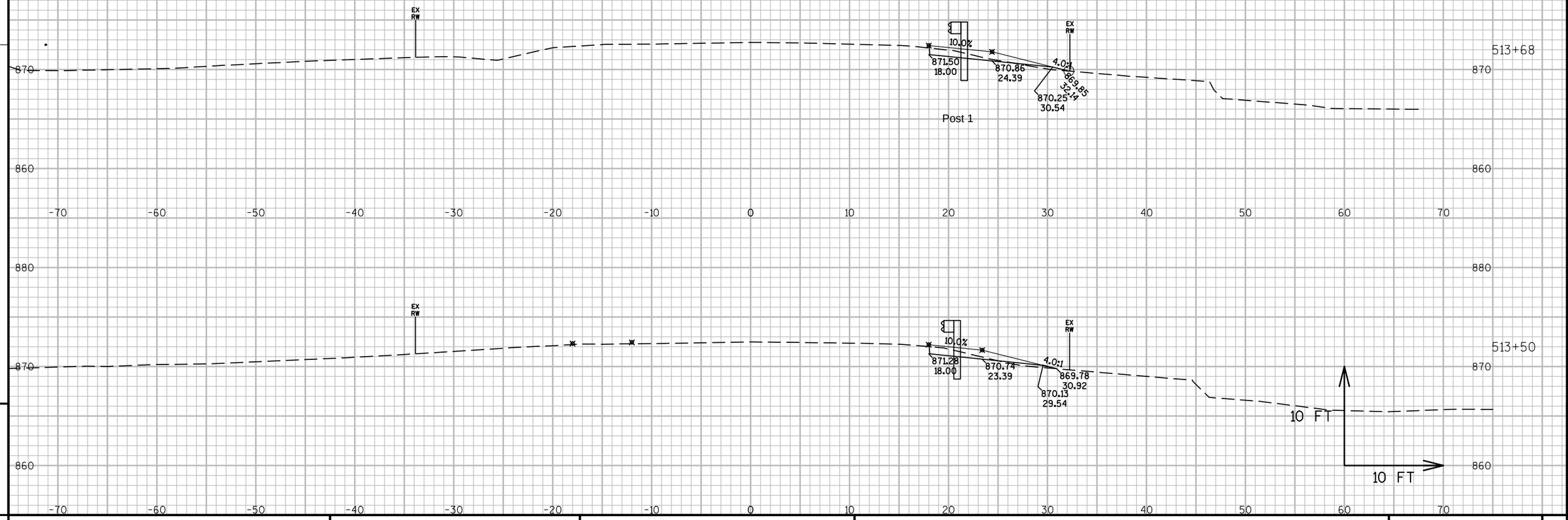
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

9

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS513+11_NEW.DWG PLOT DATE : 1/6/2017 9:55 AM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

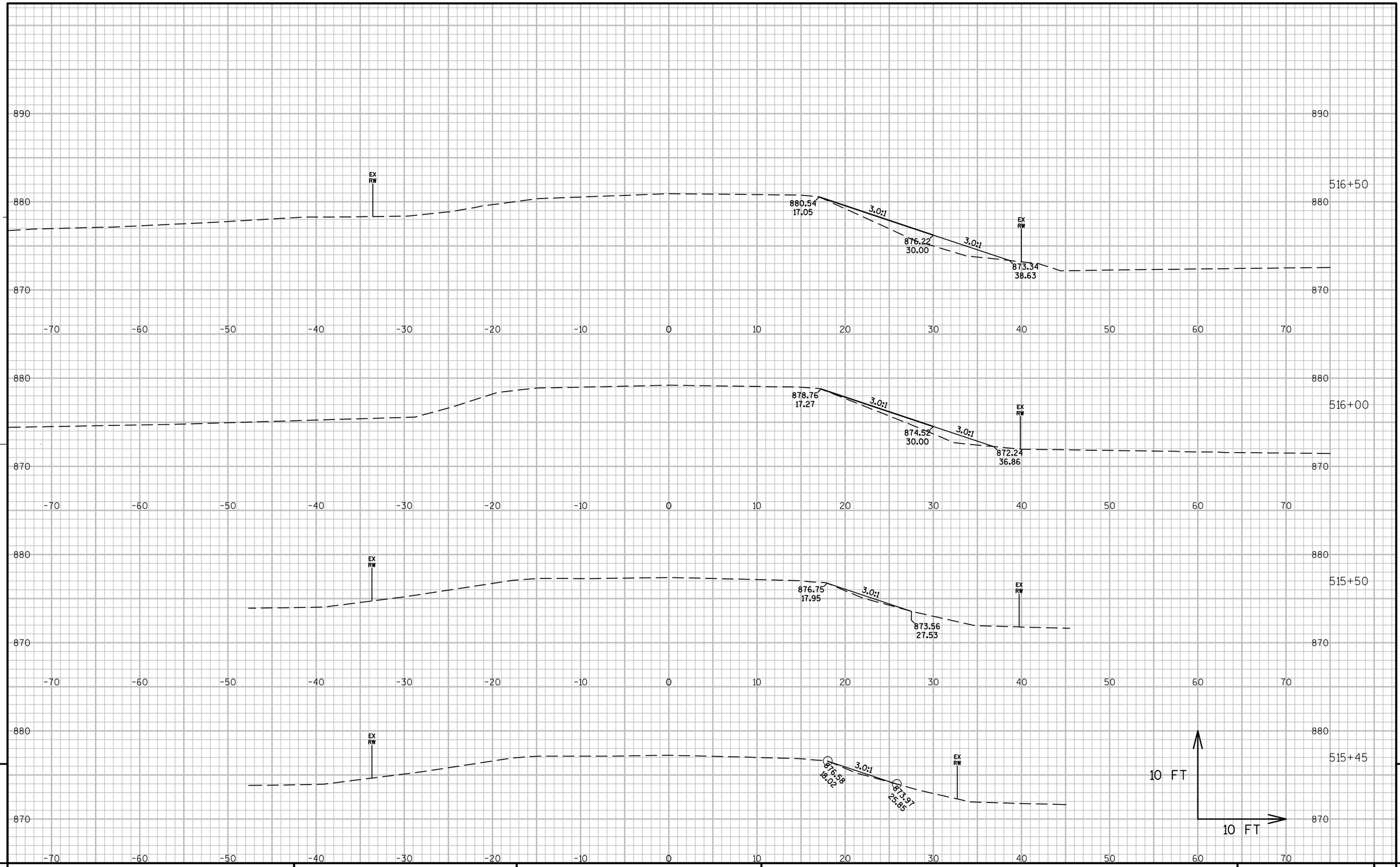
End Taper 514+73



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 375	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS513+11_NEW.DWG PLOT DATE : 1/6/2017 9:55 AM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

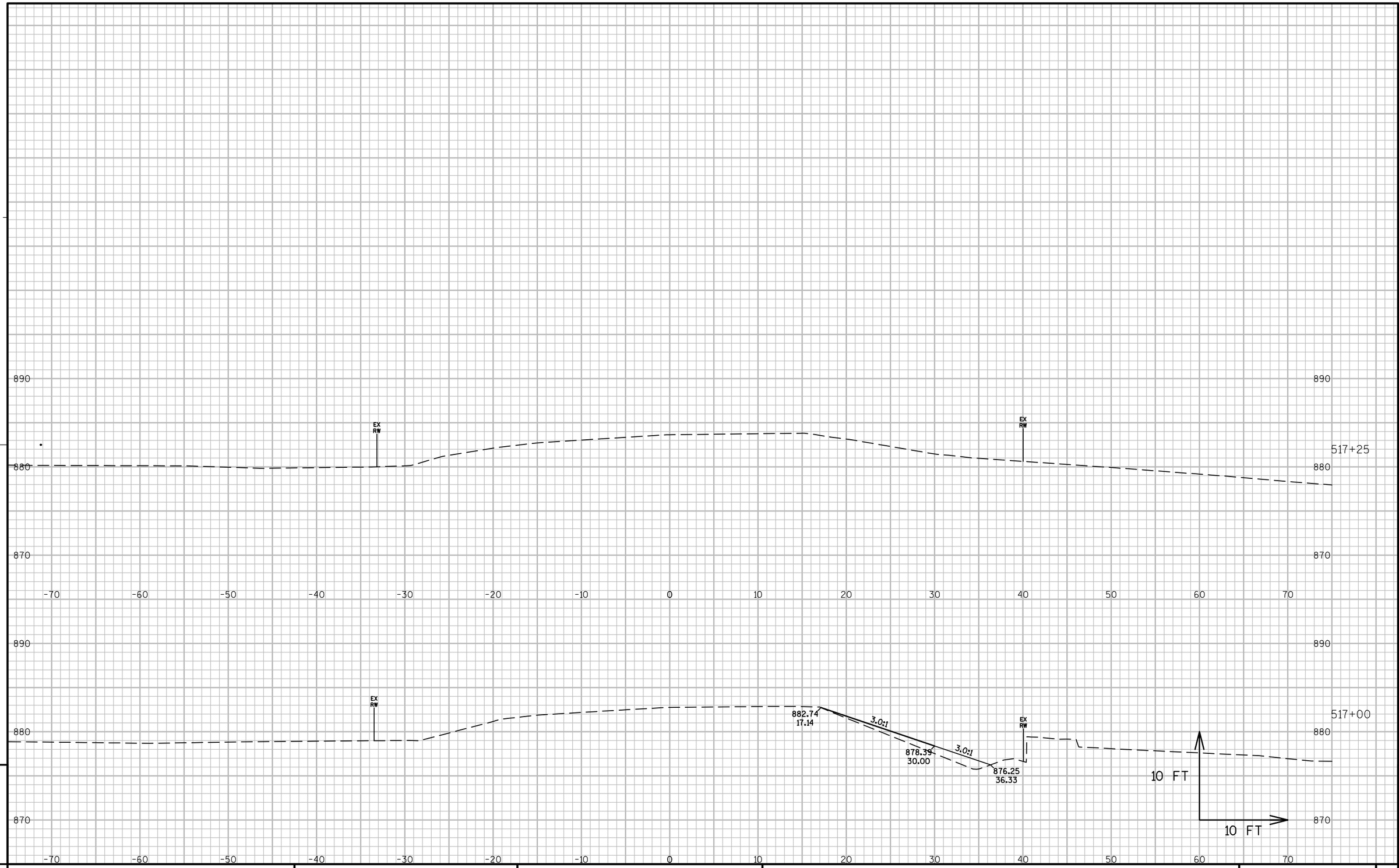
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 376	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS515NEW_012516.DWG PLOT DATE : 10/20/2016 6:08 AM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

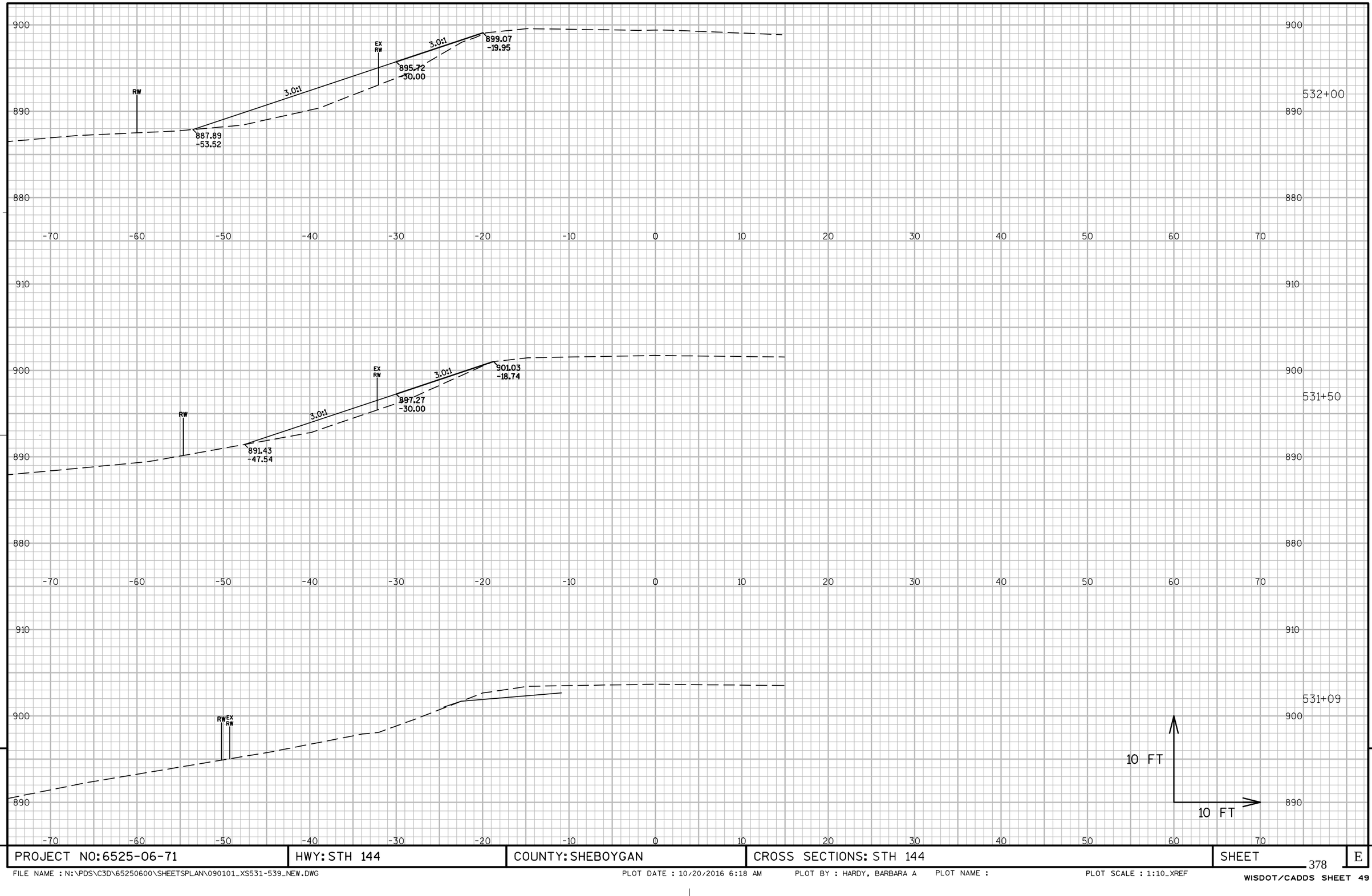
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 377	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS515NEW_012516.DWG PLOT DATE : 10/20/2016 6:08 AM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

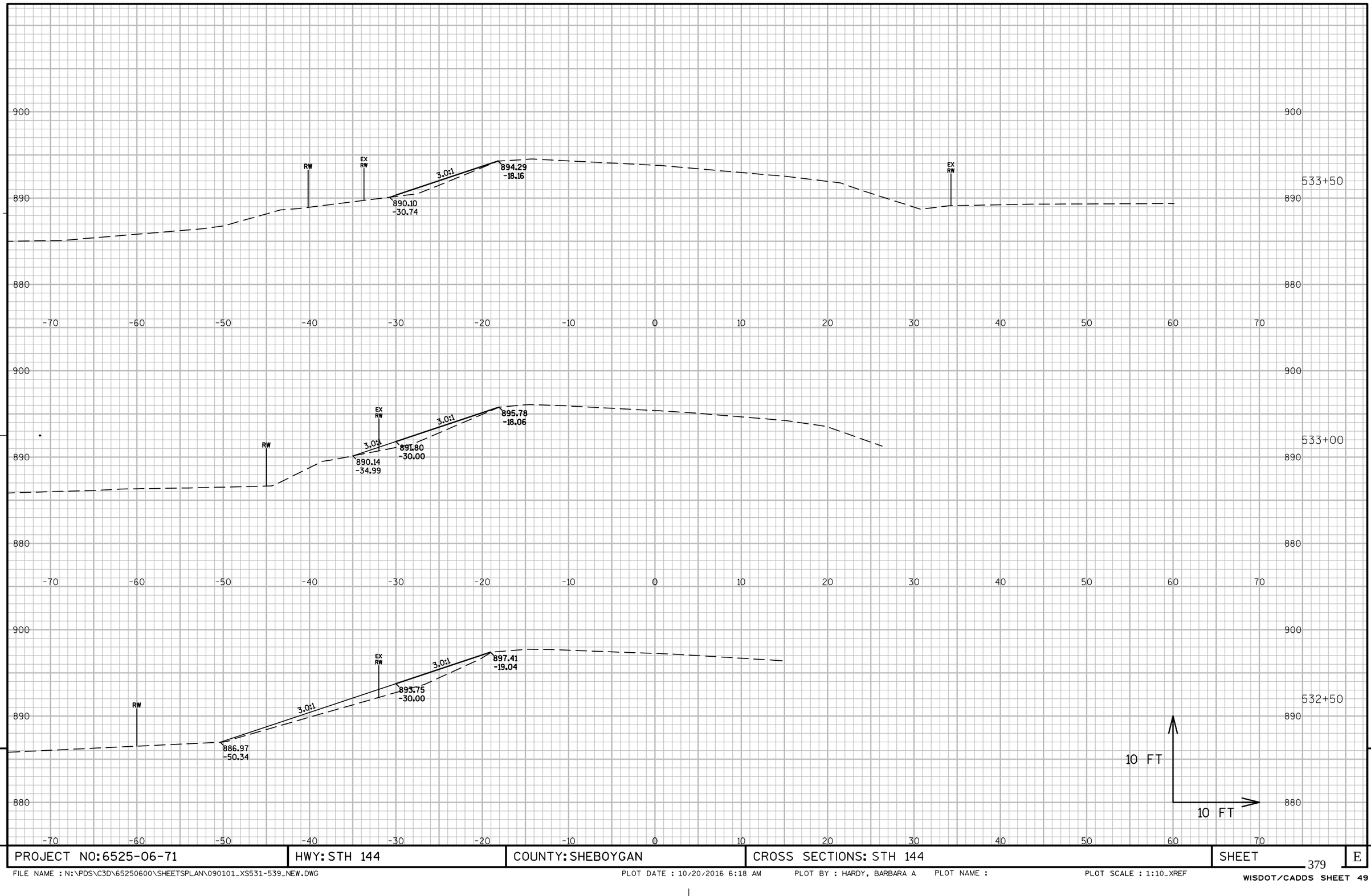
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 378	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS531-539_NEW.DWG PLOT DATE : 10/20/2016 6:18 AM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET 379	E

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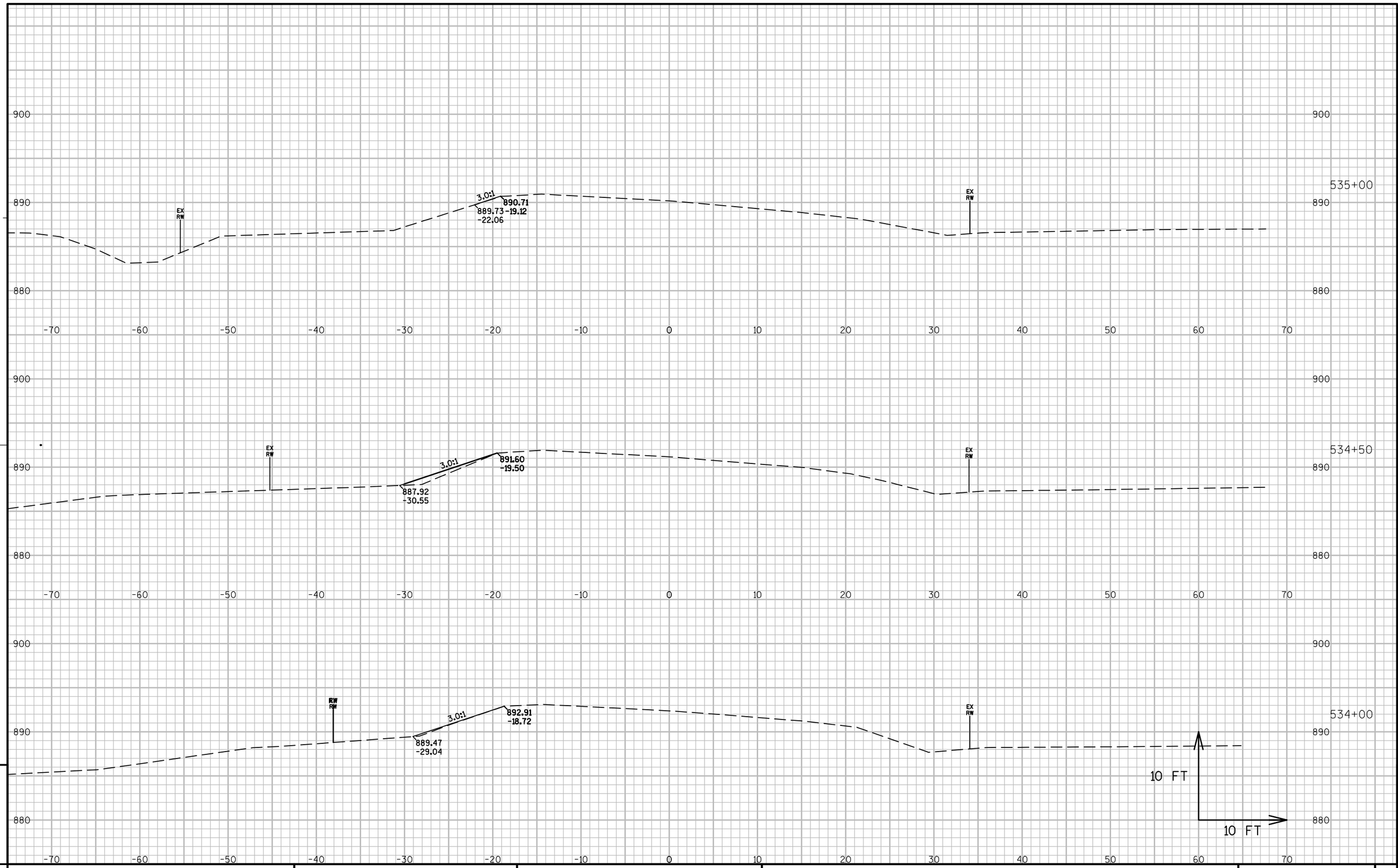
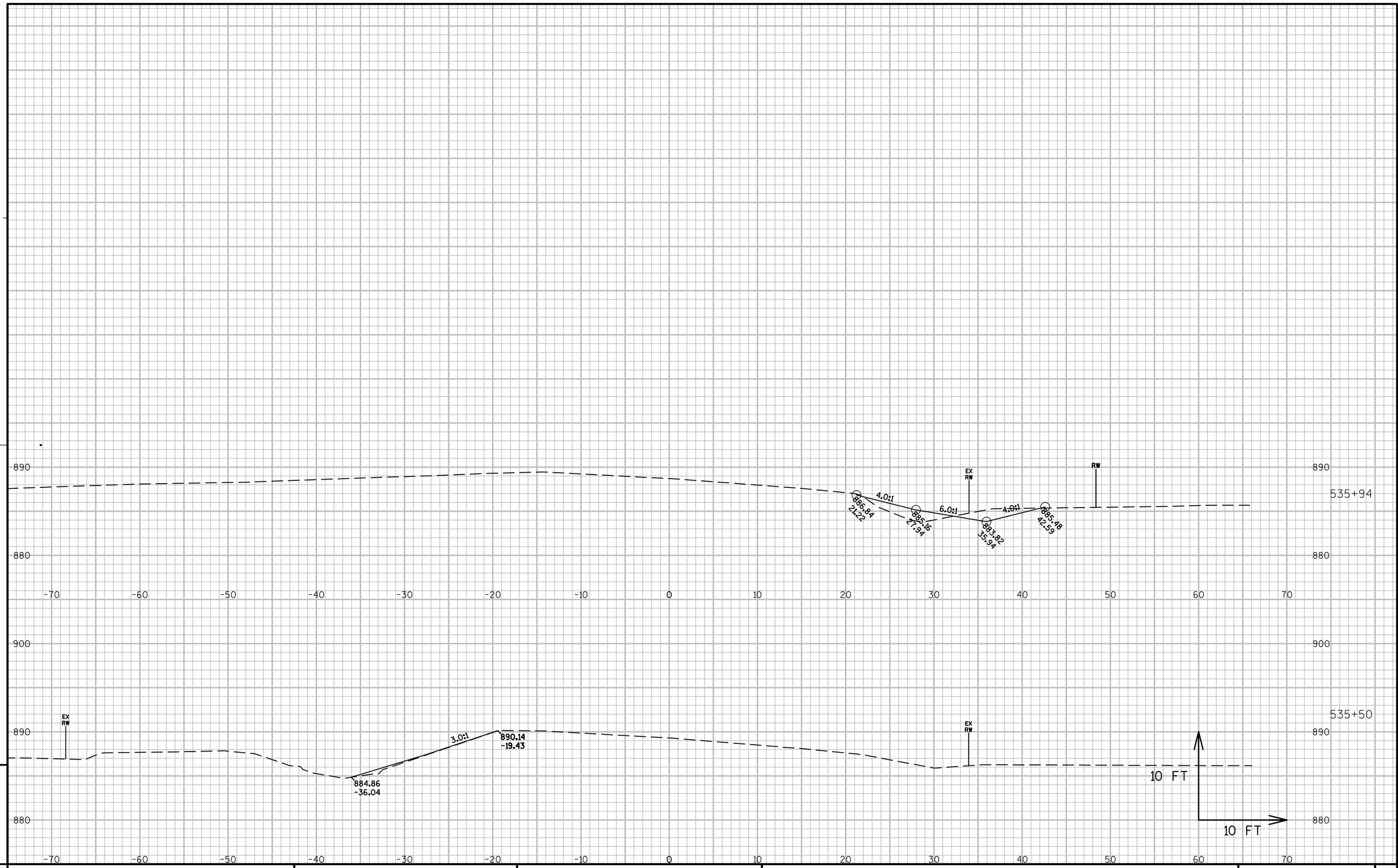


PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS531-539_NEW.DWG PLOT DATE : 10/20/2016 6:18 AM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF



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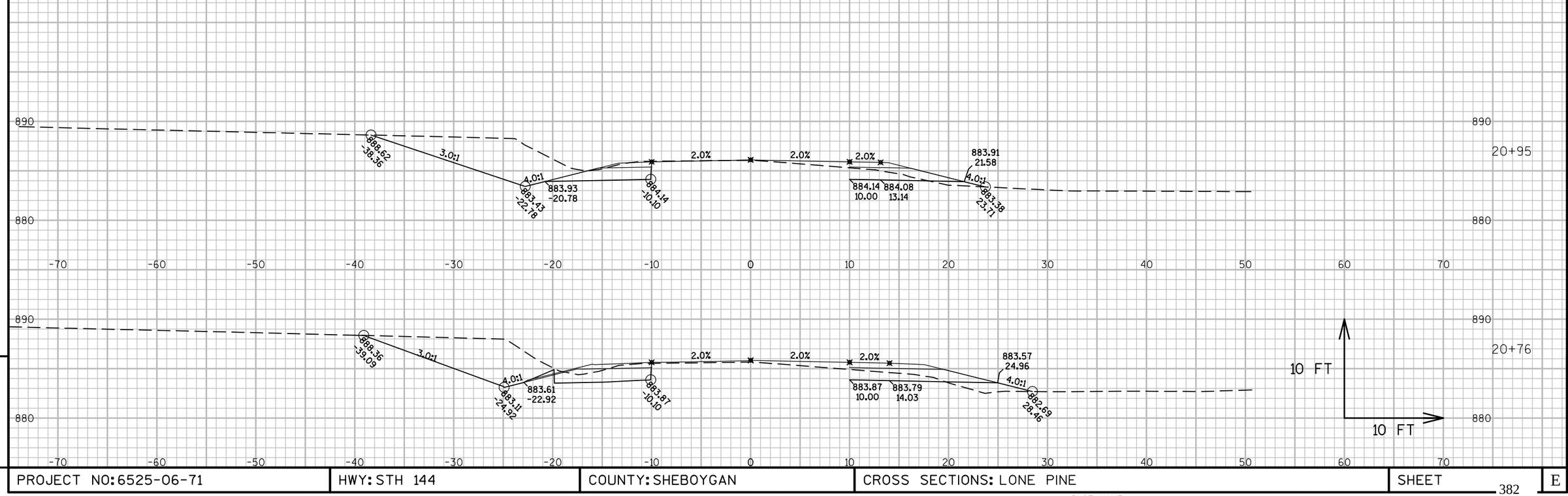
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 144	SHEET	E

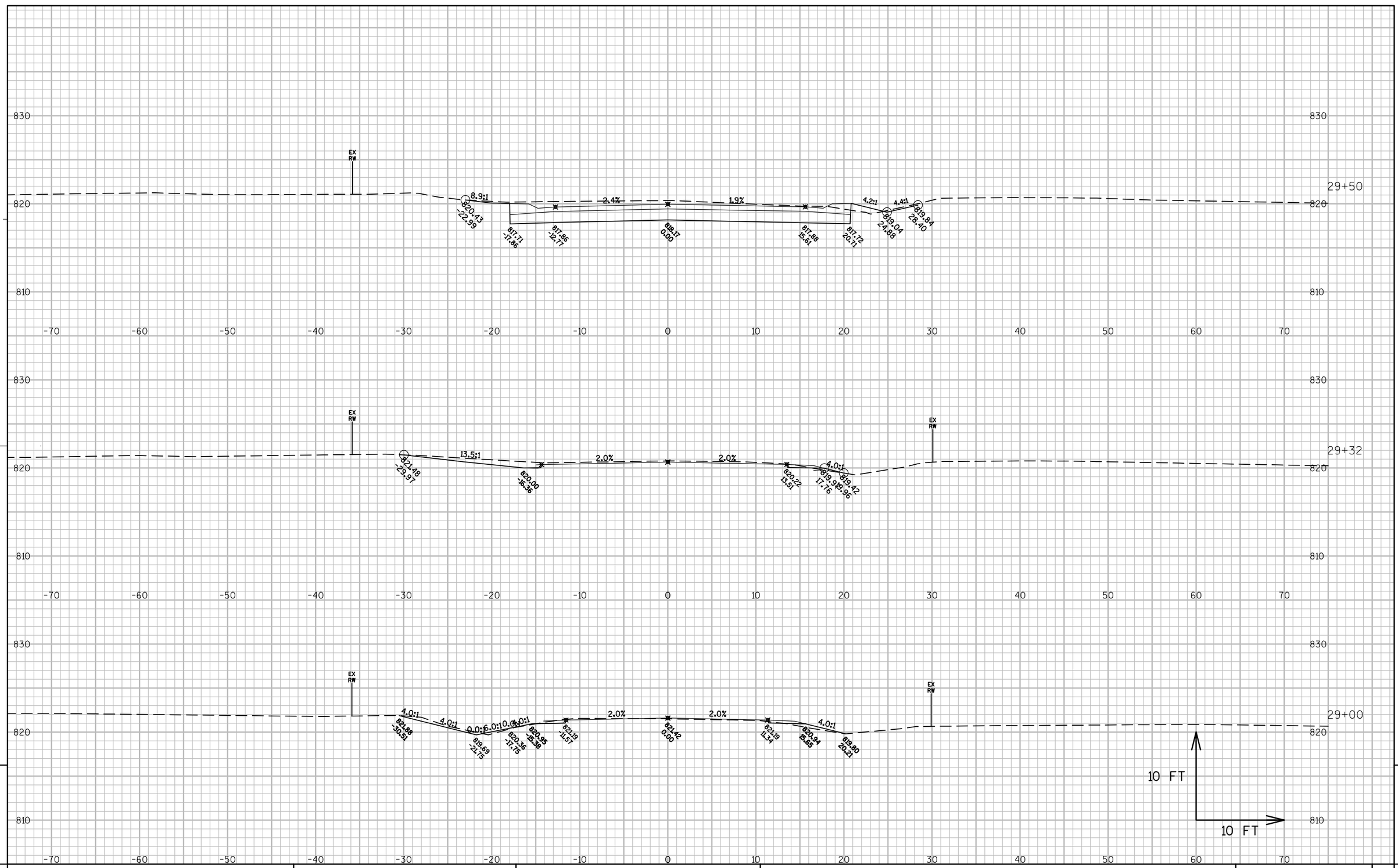
FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS531-539_NEW.DWG PLOT DATE : 10/20/2016 6:19 AM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: LONE PINE	SHEET 382	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS_LONE PINE.DWG PLOT DATE : 10/15/2016 1:23 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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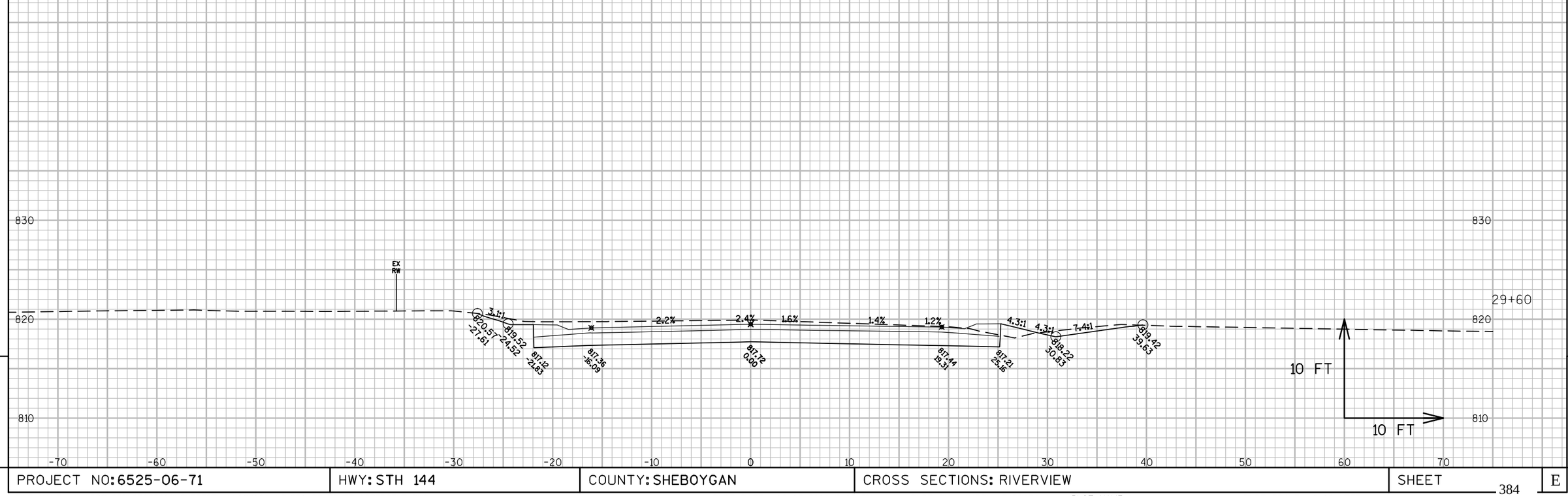
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: RIVERVIEW	SHEET	E

9

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS_231-RIVERVIEW60PERCENT.DWG PLOT DATE : 10/15/2016 2:13 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: RIVERVIEW	SHEET 384	E

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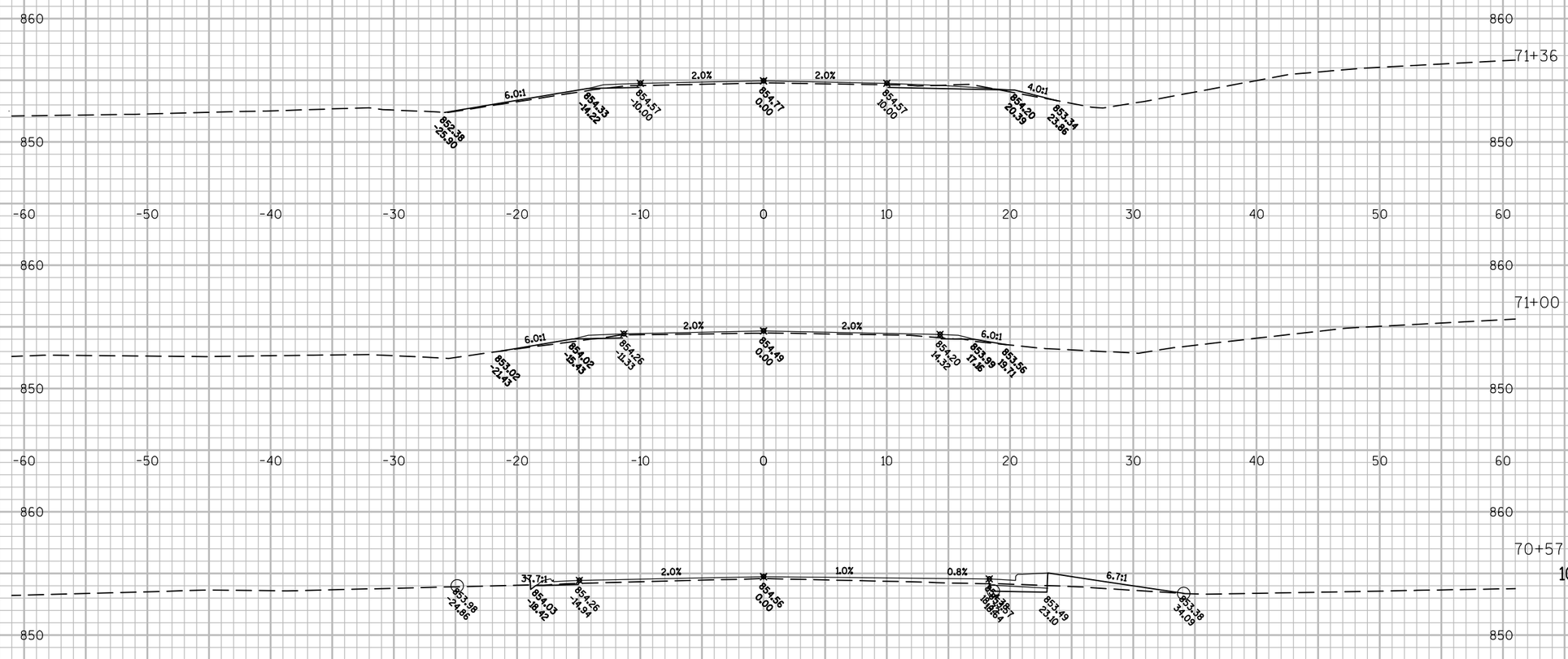
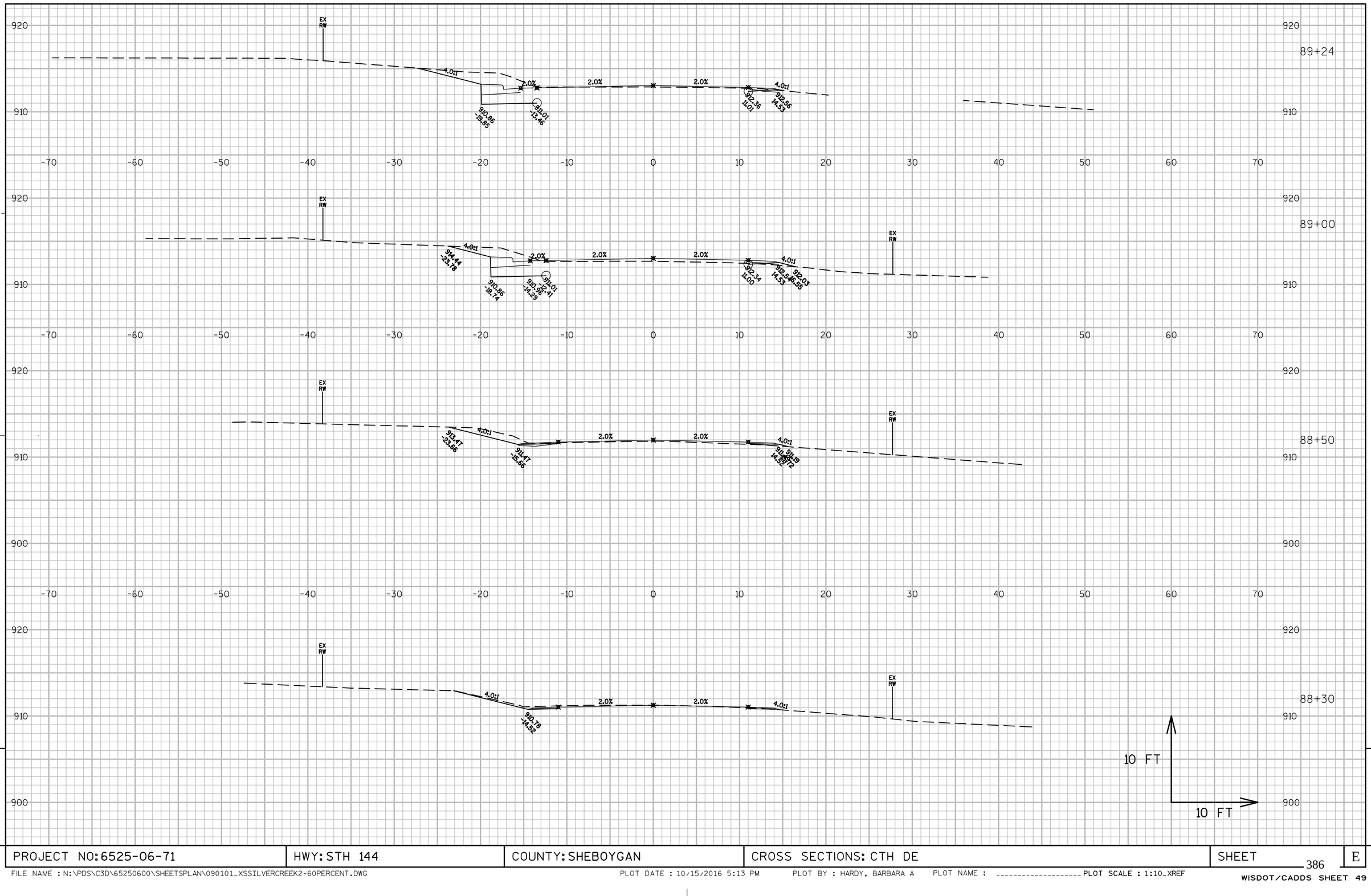
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: SCHROETER ROAD	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK1-60PERCENT.DWG PLOT DATE : 10/15/2016 5:30 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF



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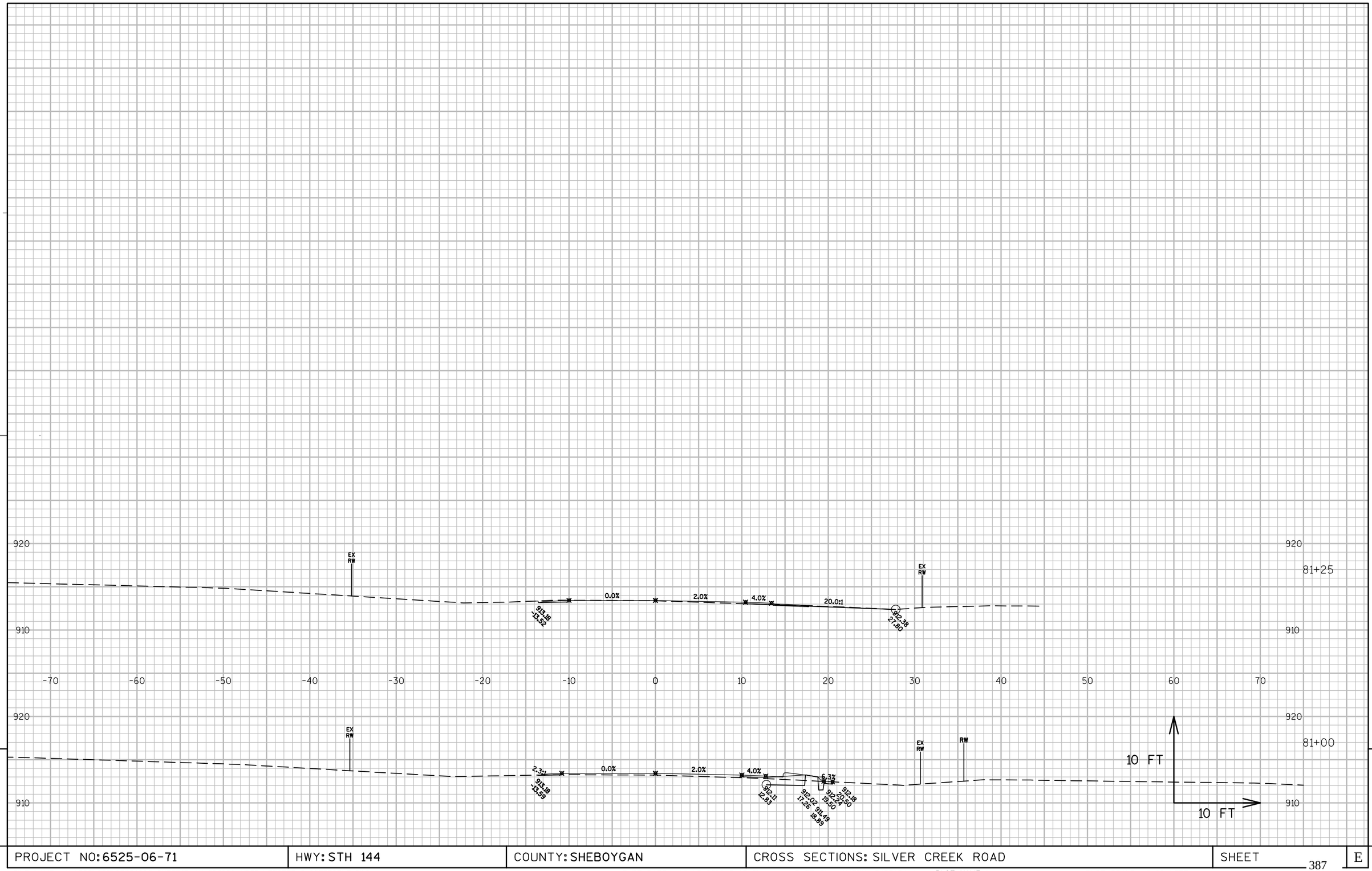
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH DE	SHEET 386	E

9

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:13 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF



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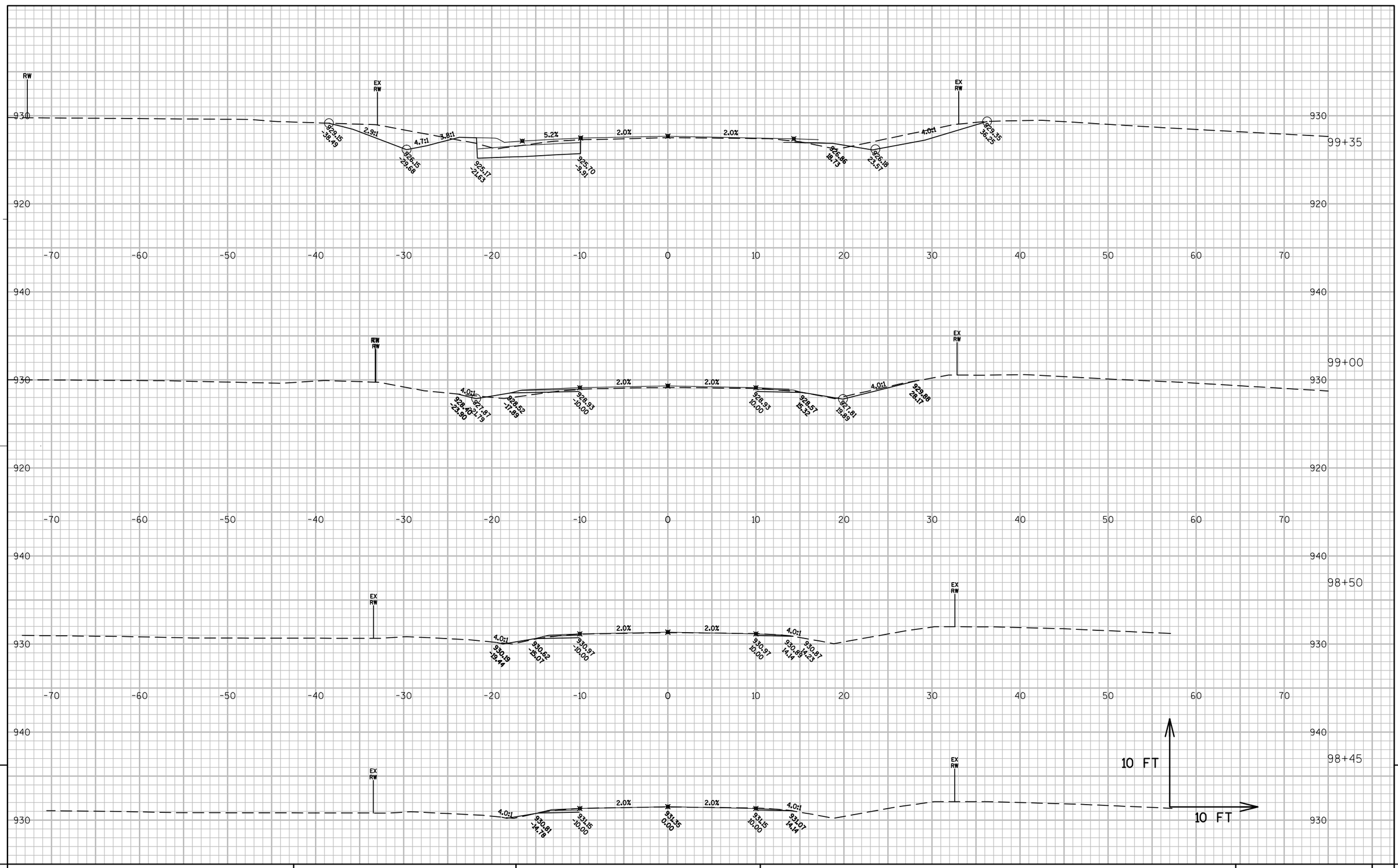
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: SILVER CREEK ROAD	SHEET 387	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSSILVERCREEK2-60PERCENT.DWG PLOT DATE : 10/15/2016 5:25 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

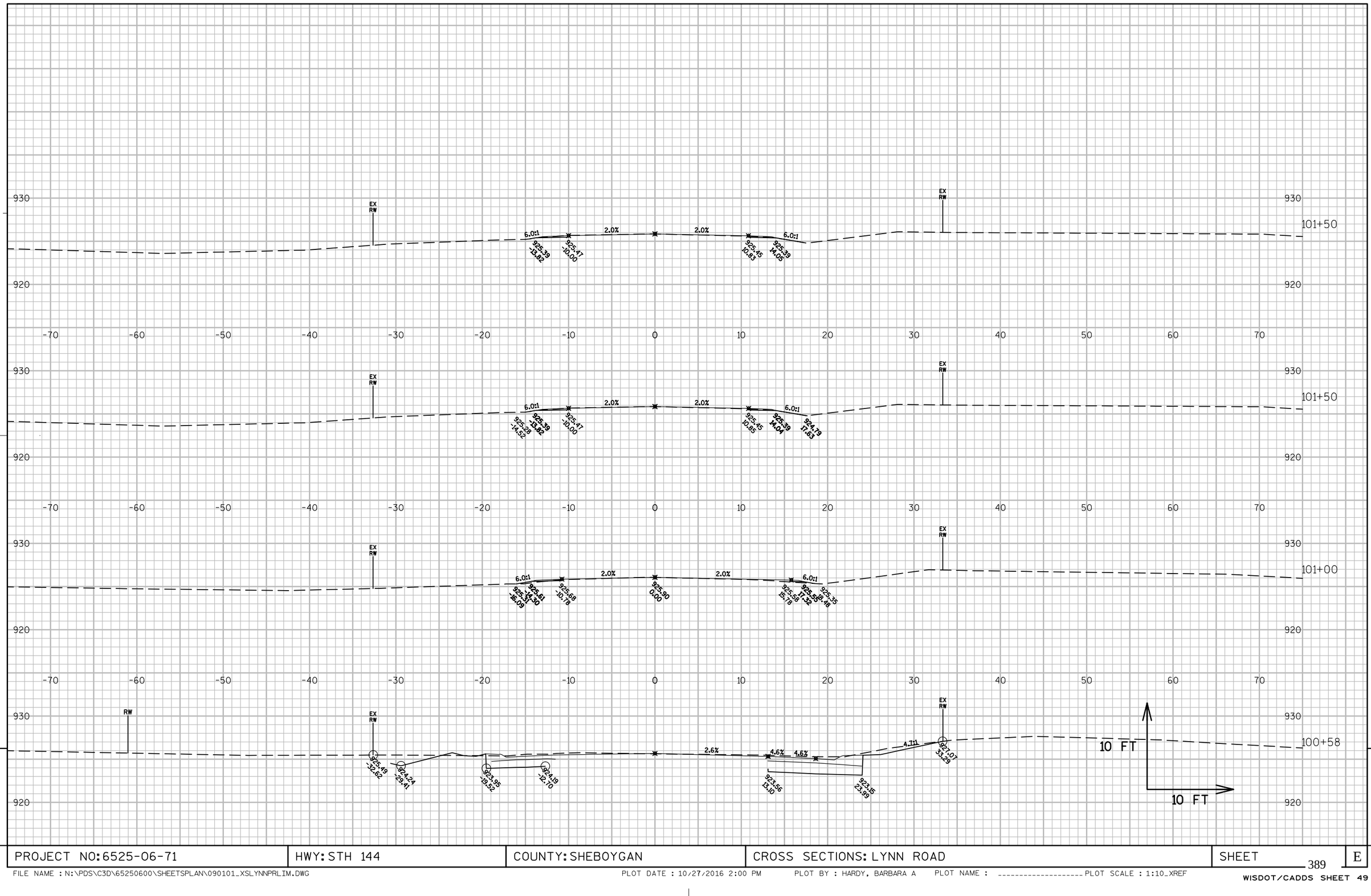
WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: LYNN ROAD	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSLYNNPRLIM.DWG PLOT DATE : 10/27/2016 1:57 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: LYNN ROAD	SHEET 389	E

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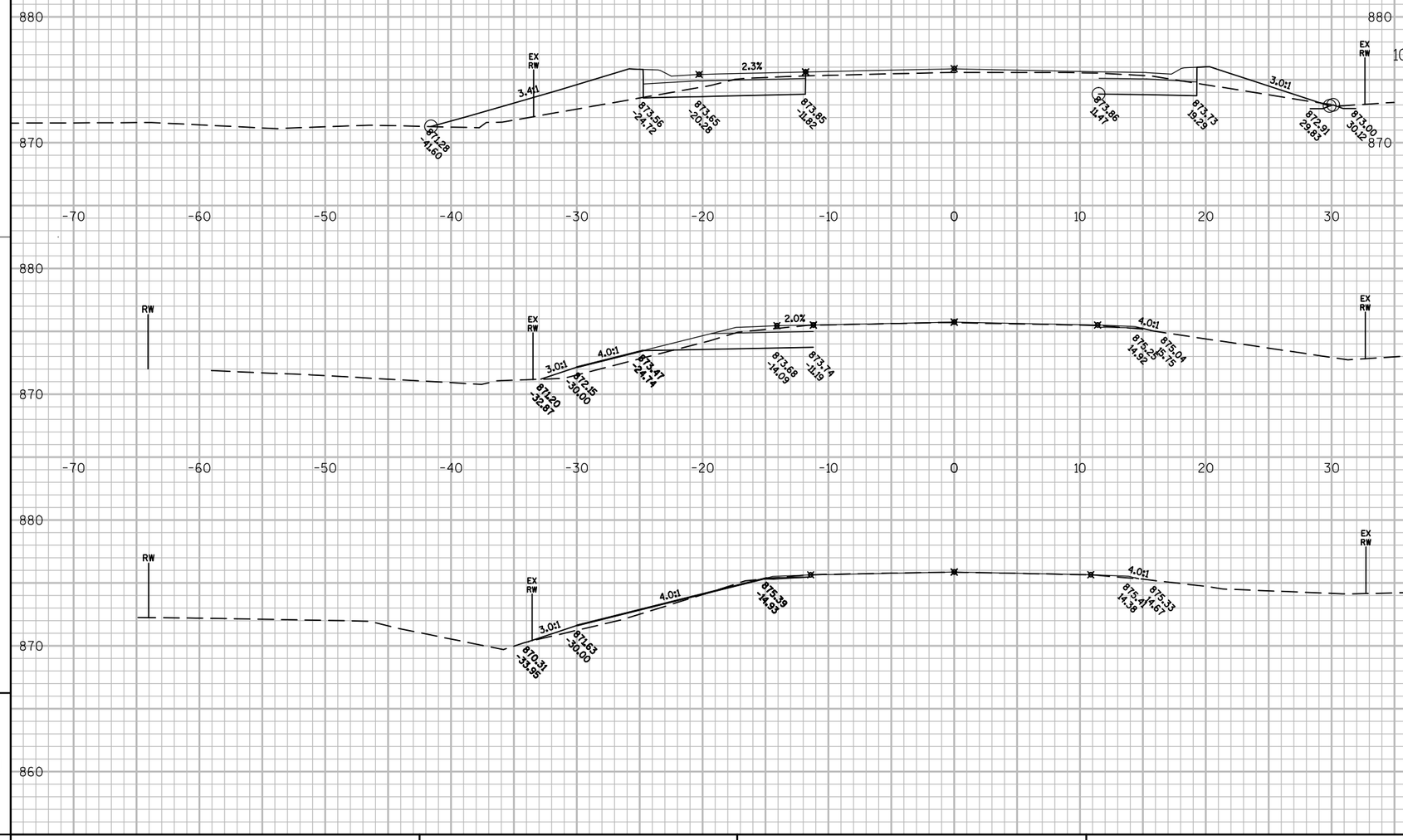
FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSLYNNPRLIM.DWG PLOT DATE : 10/27/2016 2:00 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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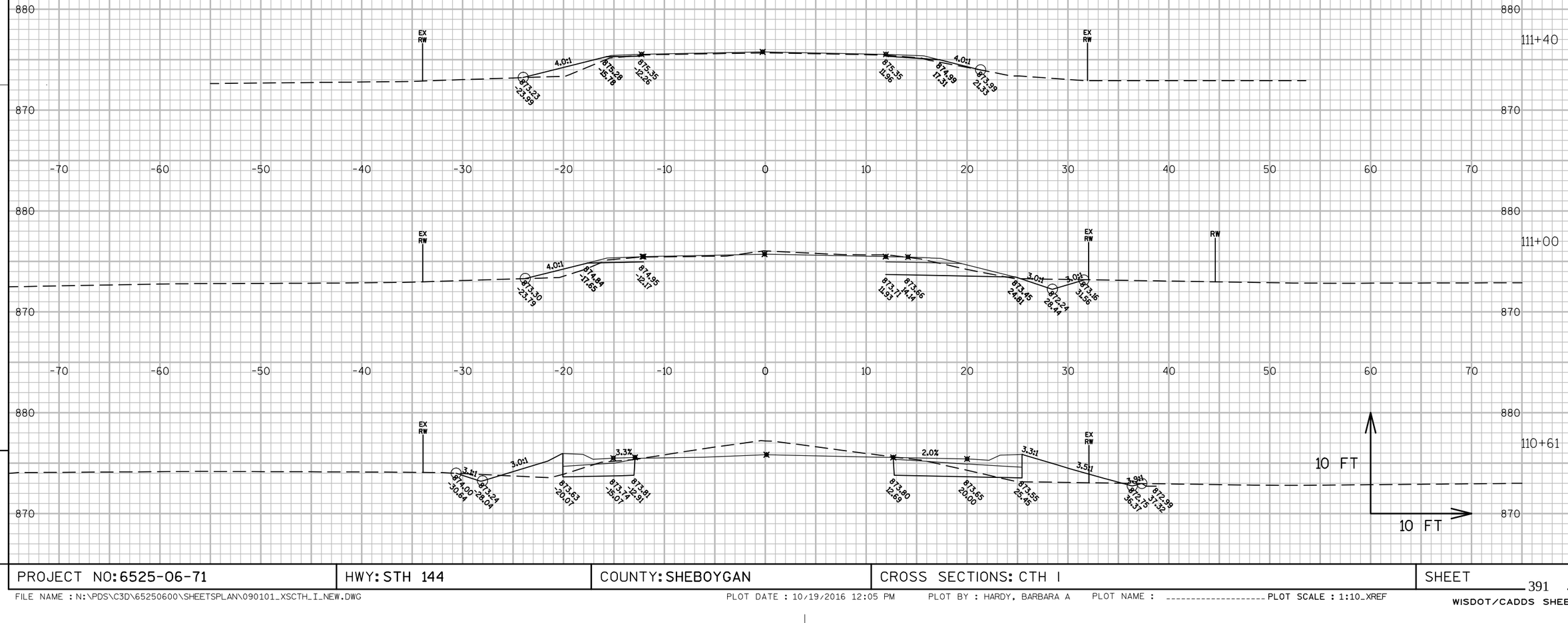
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH I	SHEET 390	E

9

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSCTH_I_NEW.DWG PLOT DATE : 10/19/2016 12:11 PM PLOT BY : HARDY, BARBARA A PLOT NAME : ---------- PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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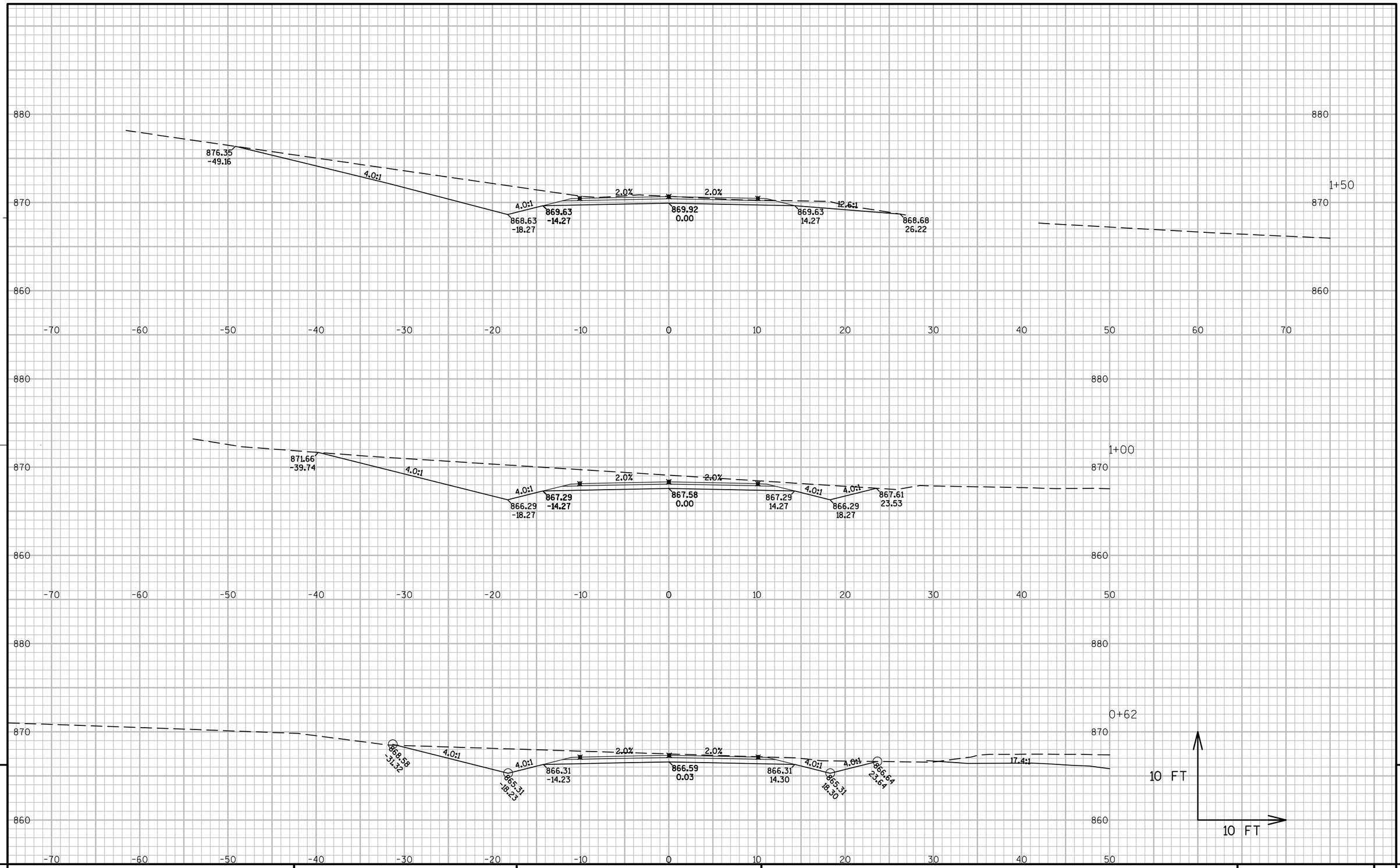
PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH I	SHEET 391	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XSCTH_I_NEW.DWG PLOT DATE : 10/19/2016 12:05 PM PLOT BY : HARDY, BARBARA A PLOT NAME : _____ PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 6525-06-71	HWY: STH 144	COUNTY: SHEBOYGAN	CROSS SECTIONS: PE	SHEET	E

FILE NAME : N:\PDS\C3D\65250600\SHEETSPLAN\090101_XS465-6-12-15.DWG PLOT DATE : 10/19/2016 3:54 PM PLOT BY : HARDY, BARBARA A PLOT NAME : PLOT SCALE : 1:10_XREF

Notes

Wisconsin Department of Transportation

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