EAU DEC 2016

PROJECT ID: 7105-05-70

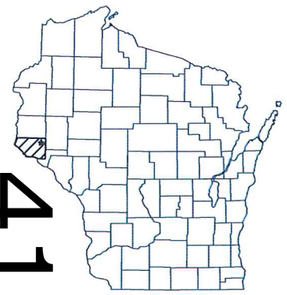
WITH:

COUNTY: PIERCE

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 = 318



41

N

DESIGN DESIGNATION 7105-05-10

A.A.D.T.	2015	=	1000
A.A.D.T.	2035	=	1350
D.H.V.		=	------
D.D.		=	60/40
T.		=	6.8%
DESIGN SPEED		=	55 MPH
ESALS		=	255,500

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

ELMWOOD-STH 64

STH 72 TO STH 29

STH 128

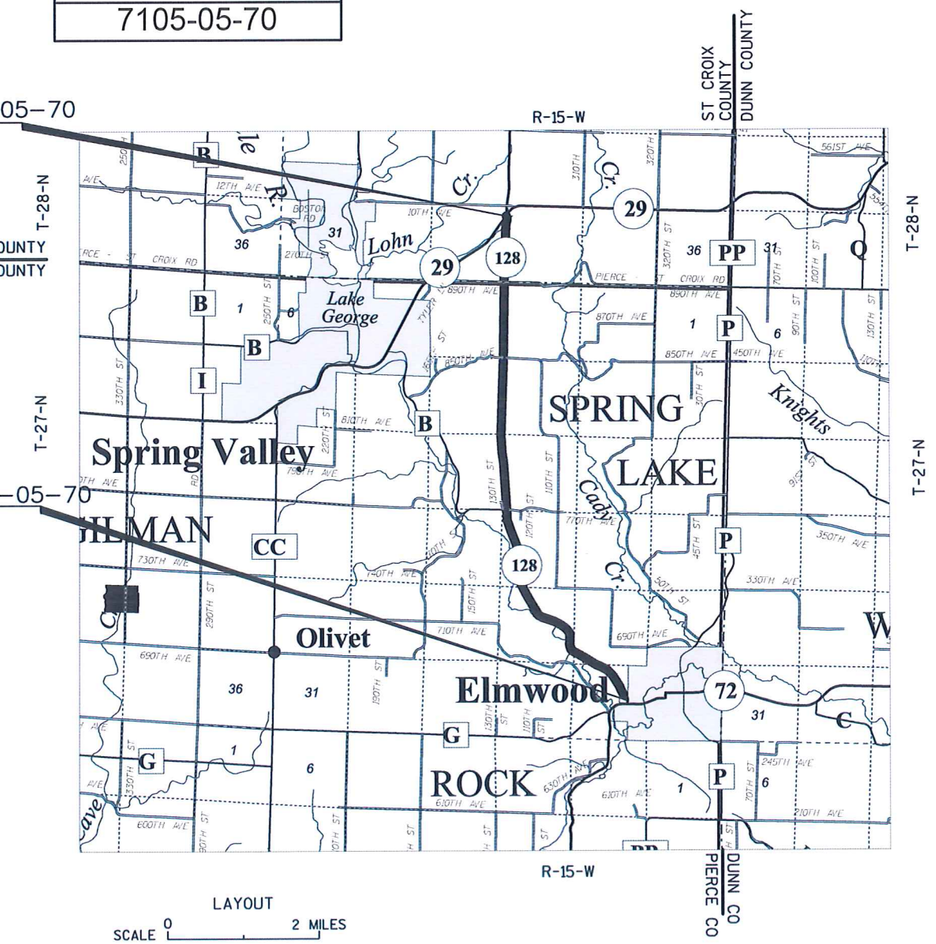
PIERCE COUNTY

STATE PROJECT NUMBER
7105-05-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7105-05-70	WISC 2016501	1

END PROJECT 7105-05-70
STA 477+76
Y=557941.49
X=367804.14

BEGIN PROJECT 7105-05-70
STA 100+90
Y=334162.743
X=567178.096



LAYOUT
SCALE 0 2 MILES

TOTAL NET LENGTH OF CENTERLINE = 7.133

ELEVATIONS ON THIS PLAN ARE REFERENCED TO NAVD 88

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

ORIGINAL PLANS PREPARED BY

QUEST

Civil Engineers, LLC

320 West Grand Ave, Suite 302
Wisconsin Rapids, WI 54495

WISCONSIN ADAM J. OSYPOWSKI E-38889 STEVENS POINT WIS. PROFESSIONAL ENGINEER

7-1-2016

(Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	QUEST CIVIL ENGINEERS
Designer	QUEST CIVIL ENGINEERS
Project Manager	NICOLE PASSUELLO
Regional Examiner	CHRISTINE KOSKI
Regional Supervisor	TIM MASON

APPROVED FOR THE DEPARTMENT
DATE: 7/11/16 Nicole Passuello (Signature)

E

LIST OF STANDARD ABBREVIATIONS

Δ	CENTRAL ANGLE OR DELTA
AADT	ANNUAL AVERAGE DAILY TRAFFIC
AC	ASPHALT CEMENT
ADT	AVERAGE DAILY TRAFFIC
AECPRC	APRON ENDWALL FOR CULV PIPE REIN CONC
AEW	APRON ENDWALL
AGG	AGGREGATE
ASPH	ASPHALTIC
AVG	AVERAGE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
CABC	CRUSHED AGGREGATE BASE COURSE
CE	COMMERCIAL ENTRANCE
CL or C/L	CENTER LINE
CO	COUNTY
CONC	CONCRETE
CP	CULVERT PIPE
CPCP	CULVERT PIPE CORRUGATED POLYETHYLENE
CPCS	CULVERT PIPE CORRUGATED STEEL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULV PIPE REIN CONC HORIZONTAL ELLIPTICAL
CTH	COUNTY TRUNK HIGHWAY
CULV	CULVERT
CWT	HUNDREDWEIGHT
CY or CUYD	CUBIC YARD
D	DEGREE OF CURVE
DG	DITCH GRADE
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DISCH	DISCHARGE
DIST	DISTRICT
DWY	DRIVEWAY
EAT	ENERGY ABSORBING TERMINAL
EB	EASTBOUND
EBS	EXCAVATING BELOW SUBGRADE
EL or ELEV	ELEVATION
ENT	ENTRANCE
EOP	EDGE OF PAVEMENT
ESALS	EQUIVALENT SINGLE AXLE LOADS
EW	ENDWALL
EXC	EXCAVATION
EXIST	EXISTING
FE	FIELD ENTRANCE
FERT	FERTILIZE
FG	FINISHED GRADE
FL or F/L	FLOW LINE
FO	FIBEROPTIC
FP	FENCE POST
FT	FOOT
GAL	GALLON
HMA	HOT MIX ASPHALT
ID	INSIDE DIAMETER
INV	INVERT
IP	IRON PIPE OR PIN
JCT	JUNCTION
L	LENGTH
LB	POUND
LC	LONG CHORD OF CURVE
LIN FT and LF	LINEAR FOOT
LS	LUMP SUM
LT	LEFT
M	MARSH
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NB	NORTHBOUND
NC	NORMAL CROWN
NO	NUMBER
NW or NW	NORMAL WATER
OD	OUTSIDE DIAMETER
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PD or PED	PEDISTAL
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PP	POWER POLE
PROJ	PROJECT
PROP	PROPOSED
PT	POINT OF TANGENCY
R	RADIUS
R/L	REFERENCE LINE
R/W	RIGHT-OF-WAY
RD	ROAD
RR	RAILROAD
RT	RIGHT
SB	SOUTH BOUND
SDD	STANDARD DETAIL DRAWINGS
SE	SUPERELEVATION
SF or SQ FT	SQUARE FEET
SHLDR	SHOULDER
SPECS	SPECIFICATIONS
STA	STATION
STH	STATE TRUNK HIGHWAYS
SY or SQ YD	SQUARE YARD
T or TAN	TANGENT
T	TRUCKS (PERCENT OF)
T or TN	TOWN
TEL	TELEPHONE
TYP	TYPICAL
V	VELOCITY OR DESIGN SPEED
VAR	VARIABLE
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
WB	WESTBOUND
X	EAST GRID COORDINATE
Y	NORTH GRID COORDINATE

GENERAL NOTES

2

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE DENSE AND ASPHALTIC SURFACE ARE MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF ALL LANDMARKS, BENCHMARKS, AND OTHER CONTROL POINTS IN ALL AREAS WHERE SUCH LANDMARKS, BENCHMARKS, OR OTHER CONTROL POINTS MAY EXIST.

THE CONTRACTOR SHALL PROTECT ALL SURVEY MARKERS. SURVEY MARKERS SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

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

EXACT LOCATION AND LIMITS OF DRIVEWAY ENTRANCES ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND RESTORATION OF, INCLUDING BUT NOT LIMITED TO : SEED, FERTILIZER, EROSION MAT OF ANY DISTURBED AREAS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AS DETERMINED BY THE ENGINEER.

THE LOCATION 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.
UTILITES HAVE NOT BEEN LOCATED ALONG THE DETOUR ROUTE. IDENTIFY THESE LOCATIONS PRIOR TO INSTALLING SIGNING ALONG THE DETOUR.

ALL CONCRETE PIPES WILL HAVE JOINT TIES INSTALLED ON THE LAST TWO PIPE JOINTS AND THE END WALL JOINT AT BOTH INLET AND DISCHARGE ENDS AND WIILL BE INCIDENTAL TO THE BID ITEM.

EROSION CONTROL ITEMS ARE TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

RESTORE ALL 1.5:1 AND 2.2:1 FILL SLOPES WITHIN 7 DAYS OF PLACING THE FILL MATERIAL. RESTORE ALL 2:1 CUT SLOPES WITHIN 7 DAYS OF EXCAVATING THE MATERIAL.

THE ALIGNMENT SHOWN IN THE PLAN IS A BEST FIT CENTERLINE. LAYOUT OF OFFSET DISTANCES AND GRADING LIMITS ARE BASED UPON THE ACTUAL ROADWAY CENTERLINE.

THE PROFILE GEOMETRY AND SUPERELEVATION IN MILL AND OVERLAY AREAS IS A BEST FIT APPROXIMATION AND SHOWN FOR INFORMATION ONLY.

HMA PAVEMENT LAYER THICKNESS

TOTAL LAYER THICKNESS	LAYERS
2” MAINLINE AND SHOULDERS	2” UPPER LAYER 4 MT 58-34 H
5” MAINLINE	2” UPPER LAYER 4 MT 58-34 H 3” LOWER LAYER 4 MT 58-34 H
4” SHOULDERS	2” UPPER LAYER 4 MT 58-34 H 2” LOWER LAYER 4 MT 58-34 H
DETOUR ROUTE	2” ASPHALTIC SURFACE DETOURS (MEETS MIN MIX DESIGN 4 LT 58-34 S)

MUNICIPAL CONTACTS

PIERCE COUNTY HIGHWAY DEPARTMENT
ATTN: CHAD JOHNSON-COMMISSIONER
621 CAIRNS STREET
P.O. BOX 780
ELLSWORTH, WI 54011
TELEPHONE: 715.273.5096(EXT 6791)
FAX: 715.273.6857
E-MAIL: CHAD.JOHNSON@CO.PIERCE.WI.US

PIERCE COUNTY SURVEY DIVISION
ATTN: JAMES FILKINS– COUNTY SURVEYOR
414 W. MAIN STEET
PO BOX 647
ELLSWORTH, WI 54011
TELEPHONE: 715.273.6746 (EX 6444)
FAX: 715.273.6864

ST CROIX COUNTY HIGHWAY DEPARTMENT
ATTN: TIM RAMBERG– COUNTY COMMISSIONER
ST. CROIX COUNTY HIGHWAY DEPARTMENT
P.O. BOX 108
HAMMOND, WI 54015
TELEPHONE: 715.796.2227 (COUNTY OFFICE)
E-MAIL: SCCHWY@SCCHWY.ORG

ST CROIX COUNTY SURVEY DIVISION
ATTN: BRIAN HALLING– COUNTY SURVEYOR
ST. CROIX COUNTY HIGHWAY DEPARTMENT
P.O. BOX 108
HAMMOND, WI 54015
TELEPHONE: 715.796.2227 (COUNTY OFFICE)
E-MAIL: BHALLING@SCCHWY.ORG

TOWN OF SPRING LAKE
GARY L. PETERSON– CHAIRPERSON
W1340 710TH AVENUE
SPRING LAKE, WI 54767
TELEPHONE: 715.639.3217
E-MAIL: GARYPETERSON316@CENTURYTEL.NET

TOWN OF CADY
MICHAEL TULLY– CHAIRPERSON
3130 PIERCE ST CROIX ROAD
SPRING VALLEY, WI 54767
TELEPHONE: 715.772.4578
MOBILE: 651.334.7142
E-MAIL: MIKETULLYINSV@YAHOO.COM

VILLAGE OF ELMWOOD
WILLIAM STEWART - PRESIDENT
323 WEST WINTER AVENUE
ELMWOOD, WI 54740
TELEPHONE: 715.639.3792
E-MAIL: VILLELM@CELECTCOM.NET

UTILITY CONTACTS

COMMUNICATION LINE

CELECT COMMUNICATIONS LLC
MIKE DEMARCE
S131 MC KAY AVENUE
P.O. BOX 189
SPRING VALLEY, WI 54476
TELEPHONE: 715.778.6121
EMAIL: MDEMARCE@CELECTCOM.COM

CENTURYLINK INC
KYLE SCHLAMPP
20 S WILSON AVE
RICE LAKE, WI 54868
TELEPHONE: 715. 234.5573
EMAIL: KYLE.SCHLAMPP@CENTURYLINK.COM

CENTURYLINK 24 HOUR EMERGENCY REPAIR
800-824-2877

WEST WISCONSIN TELCOM COOPERATIVE
BRAD SCHMIDTKNECHT
5808 OLD MILL PLAZA
EAU CLAIRE, WI 54703
TELEPHONE: 715.234.0504
EMAIL: BRADS@WWT.COOP

ELECTRICITY-DISTRIBUTION

ST CROIX ELECTRIC COOPERATIVE - ELECTRIC
ROB DOOLEY
1925 RIDGEWAY STREET
P.O. BOX 108
HAMMOND, WI 54015-5039
TELEPHONE: 715.796.5637 (OFFICE)
715.781.2295 (CELL)
E-MAIL: ROBD@SCECNET.NET

XCEL ENERGY - ELECTRIC
MICHAEL JOHNSEN
320 HELLER ROAD
MENOMONIE, WI 54751
TELEPHONE: 715.232.7415 (OFFICE)
715-577-7428 (CELL)
EMAIL: MICHAEL.A.JOHNSEN@XCELENERGY.COM

ELECTRICITY-TRANSMISSION

XCEL ENERGY - ELECTRIC
CHARLES DIENGER
3505 MELBY ROAD
EAU CLAIRE, WI 54703
TELEPHONE: 715.737.1576 (OFFICE)
651.955.1089 (CELL)
EMAIL: CHARLES.G.DIENGER@XCELENERGY.COM

GAS/PETROLEUM

MAGELLAN PIPELINE
CLAIR MADSEN
2728 PATTON ROAD
ROSEVILLE, MN 55113
TELLEPHONE: 612.750.1806 EMAIL:
CLAIR.MADSEN@MAGELLANLP.COM

MAGELLAN LP
24-HOUR EMERGENCY (PETROLEUM)
800-720-2417

NORTHERN NATURAL GAS
CLIFF MONTANYE
4685 212TH STREET WEST
PO BOX 188
FARMINGTON, MN 55024
TELEPHONE: 402.530.3418 (OFFICE)
612.270.8504 (CELL)
EMAIL: CLIFF.MONTANYE@NNGCO.COM

NORTHERN NATURAL GAS
24-HOUR EMERGENCY (GAS)
888-367-6671

WE ENERGIES
LATROY BRUMFIELD
333 W EVERETT STREET, A299
MILWAUKEE, WI 53203
TELEPHONE: 414.221.5617 (OFFICE)
EMAIL: LATROY.BRUMFIELD@WE-ENERGIES.COM

JACOB HULBERT (FIELD CONTACT)
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
TELEPHONE: 715.421.7277 (OFFICE)
715.421.5189 (CELL)
EMAIL: JACOB.HULBERT@WE-ENERGIES.COM

WE ENERGIES 24-HOUR EMERGENCY (GAS)
800-261-5325

SANITARY/WATER

ELMWOOD MUNICIPAL
SEWER & WATER UTILITY
JAMIE REITZ
323 WEST WINTER AVENUE
P.O. BOX 26
ELMWOOD WI 54740-0026
TELEPHONE: 715.639.3792
EMAIL: VILLELM@CELECTCOM.NET

DNR CONTACT

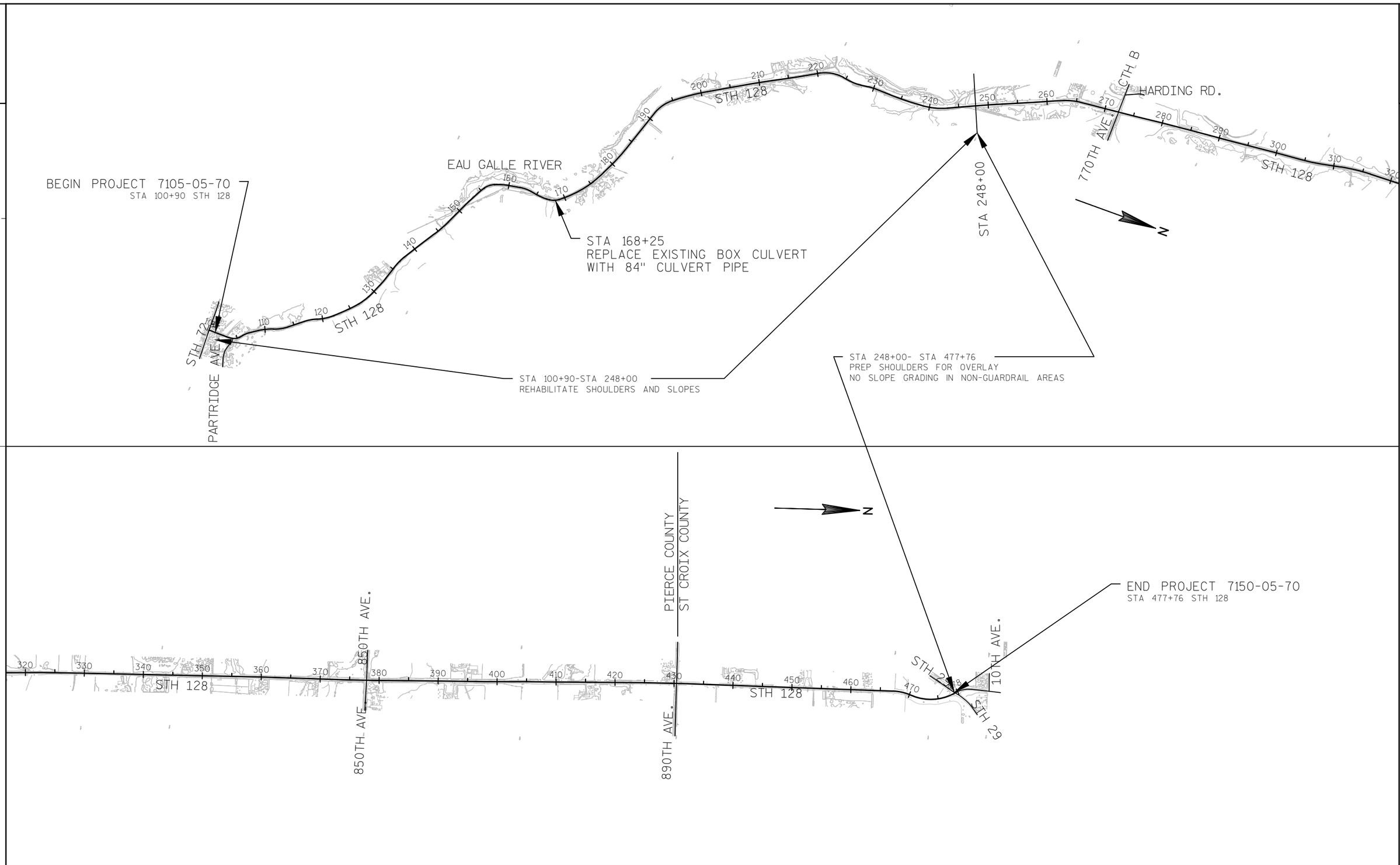
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
ATTN: CHRIS WILLGER
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54702
TELEPHONE: 715.839.1609
E-MAIL: CHRISTOPHERJ.WILLGER@WISCONSIN.GOV

USACE CONTACT

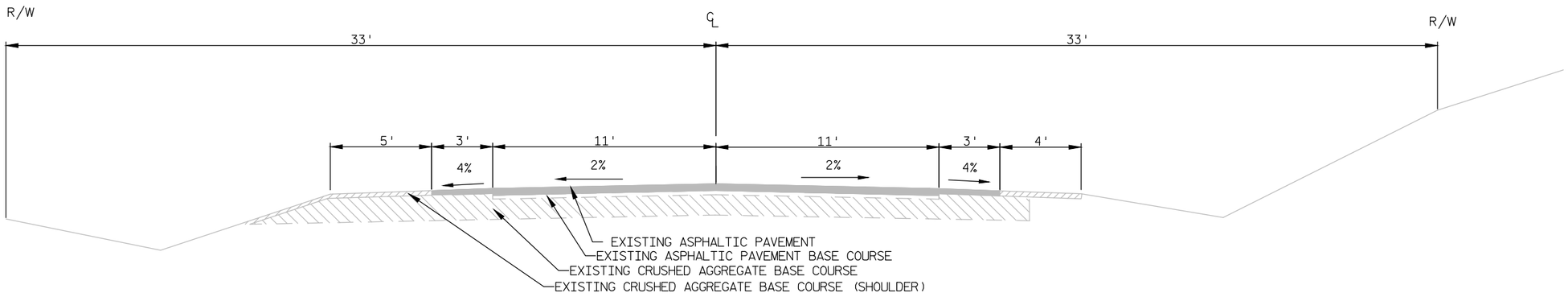
UNITED STATES ARMY CORPS OF ENGINEERS
ATTN: DANIEL MUNSON
LA CRESCENT FIELD OFFICE
1114 S OAK ST
LA CRESCENT, MN 55947-1338
TELEPHONE: 651.290.5324

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

2

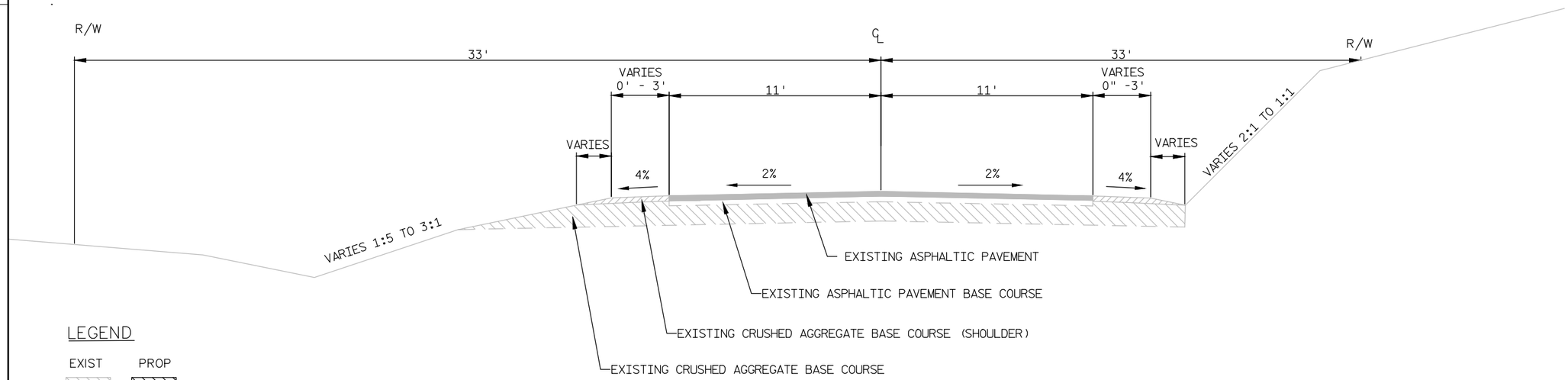


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PROJECT OVERVIEW	SHEET 4	E



EXISTING TYPICAL RURAL SECTION

STATION 100+90 TO STATION 104+50



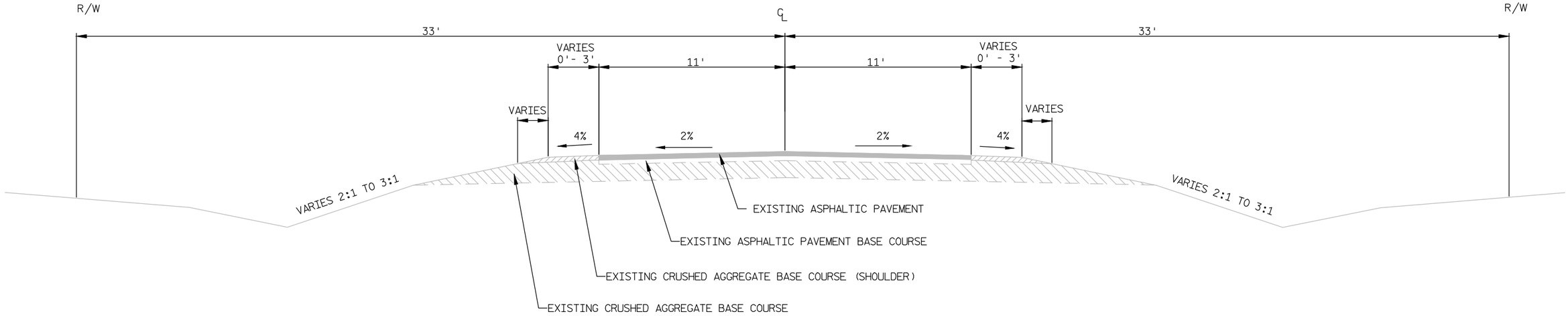
LEGEND

EXIST	PROP	
		BASE AGGREGATE DENSE 1 ¼"
		ASPHALTIC PAVEMENT
		BASE AGGREGATE DENSE ¾" (SHOULDERS)
		TOPSOIL

EXISTING TYPICAL RURAL SECTION

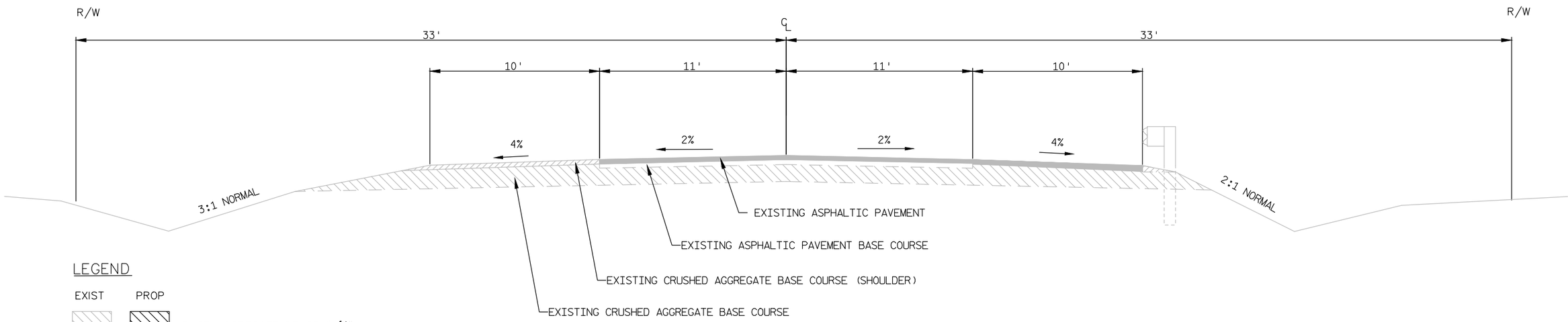
STATION 104+50 TO STATION 169+00
STATION 208+00 TO STATION 215+35
STATION 230+00 TO STATION 236+00

PROJECT NO:7105-05-70	HWY: STH 128	COUNTY: PIERCE	TYPICAL SECTION	SHEET 5	E



EXISTING TYPICAL RURAL SECTION

STATION 169+00 TO STATION 208+00
STATION 215+35 TO STATION 230+00
STATION 236+00 TO STATION 290+00
STATION 322+00 TO STATION 476+88



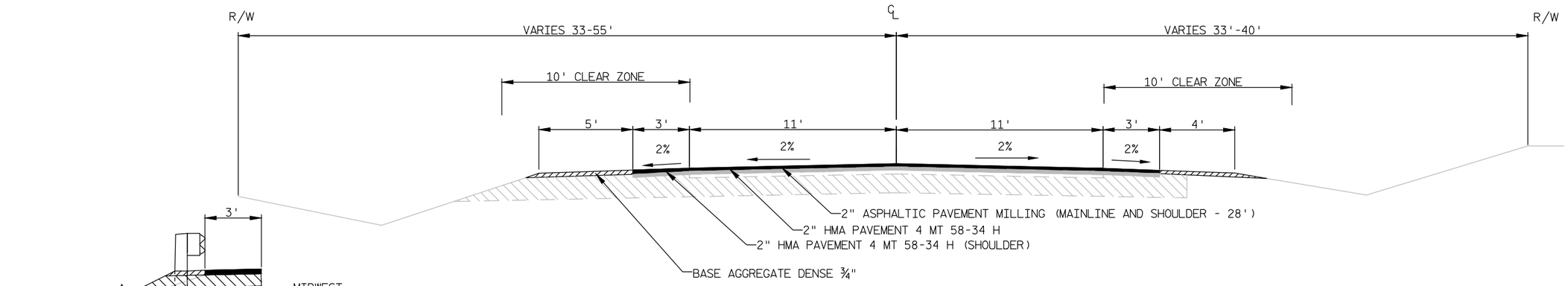
LEGEND

EXIST	PROP	
		BASE AGGREGATE DENSE 1 ¼"
		ASPHALTIC PAVEMENT
		BASE AGGREGATE DENSE ¾" (SHOULDERS)
		TOPSOIL

EXISTING TYPICAL RURAL SECTION

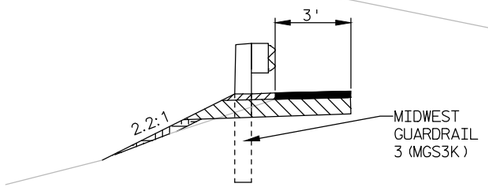
STATION 290+00 TO STATION 322+00

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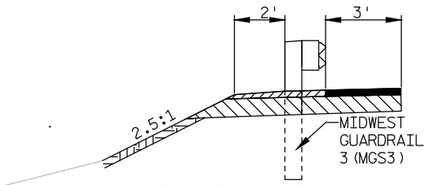


FINISHED TYPICAL RURAL SECTION

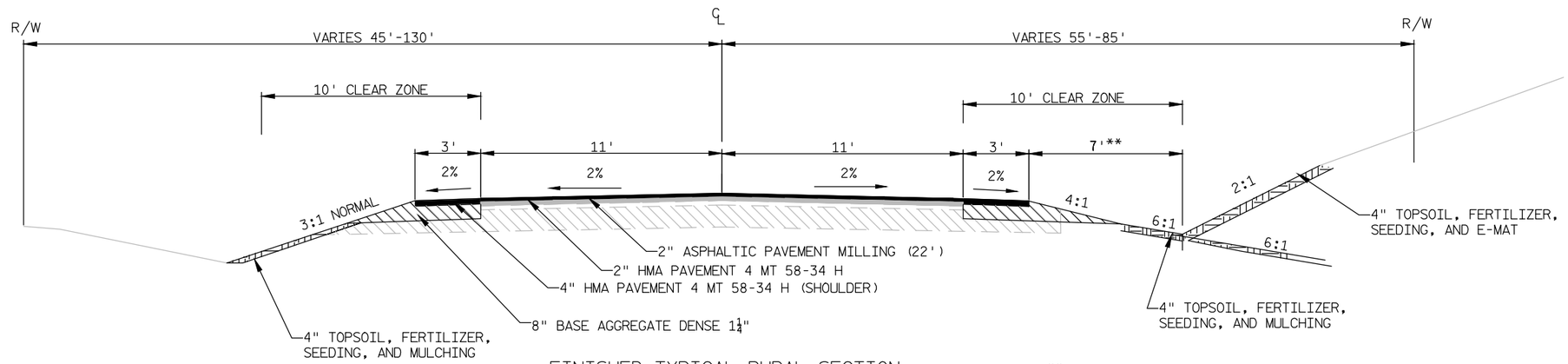
STATION 100+90 TO STATION 103+75



FINISHED MGS 3K AREAS



FINISHED MGS 3 AREAS



FINISHED TYPICAL RURAL SECTION

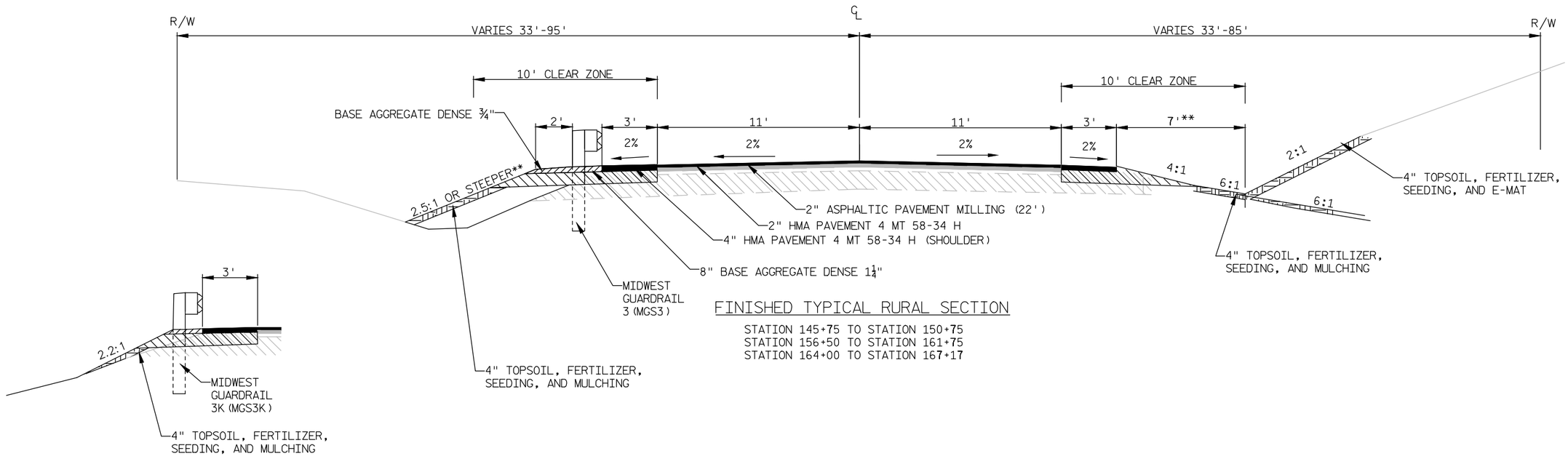
STATION 103+75 TO STATION 145+75
STATION 207+25 TO STATION 208+25
STATION 221+50 TO STATION 223+50

** 5' STA 120+00-STA 122+00

LEGEND

EXIST	PROP	
		BASE AGGREGATE DENSE 1 ¼"
		ASPHALTIC PAVEMENT
		BASE AGGREGATE DENSE ¾" (SHOULDERS)
		TOPSOIL

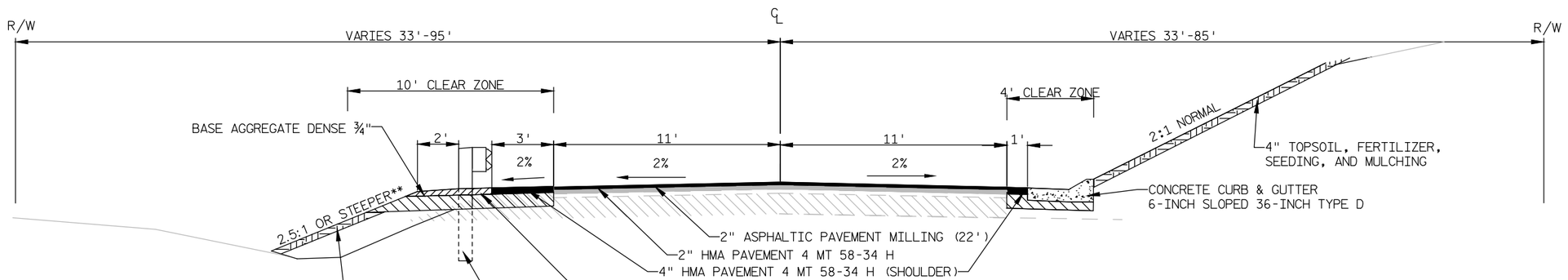
PROJECT NO:7105-05-70	HWY: STH 128	COUNTY: PIERCE	TYPICAL SECTION	SHEET 7	E



FINISHED TYPICAL RURAL SECTION

STATION 145+75 TO STATION 150+75
STATION 156+50 TO STATION 161+75
STATION 164+00 TO STATION 167+17

** STATION 146+87.5 TO STATION 162+62



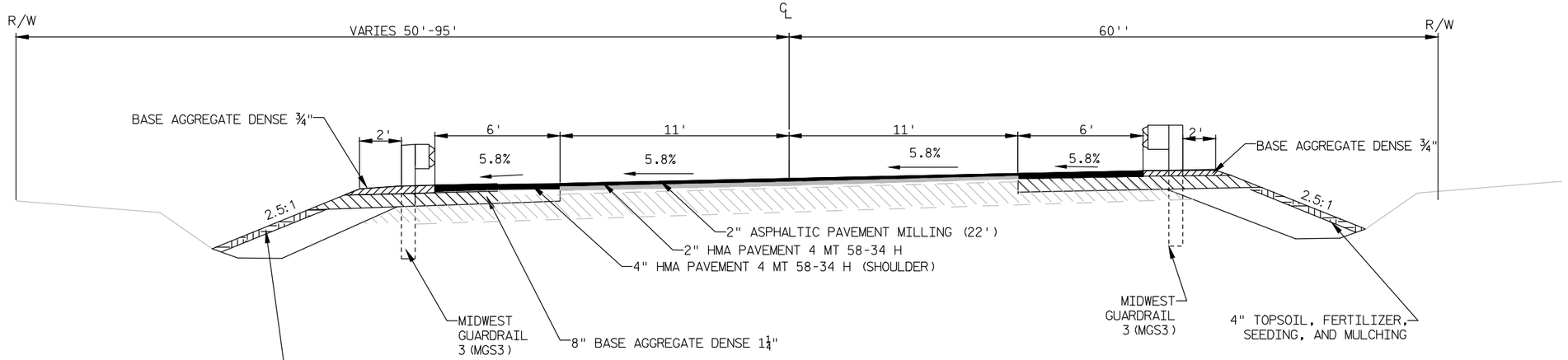
FINISHED TYPICAL RURAL SECTION

STATION 150+75 TO STATION 156+50
STATION 161+75 TO STATION 164+00

LEGEND

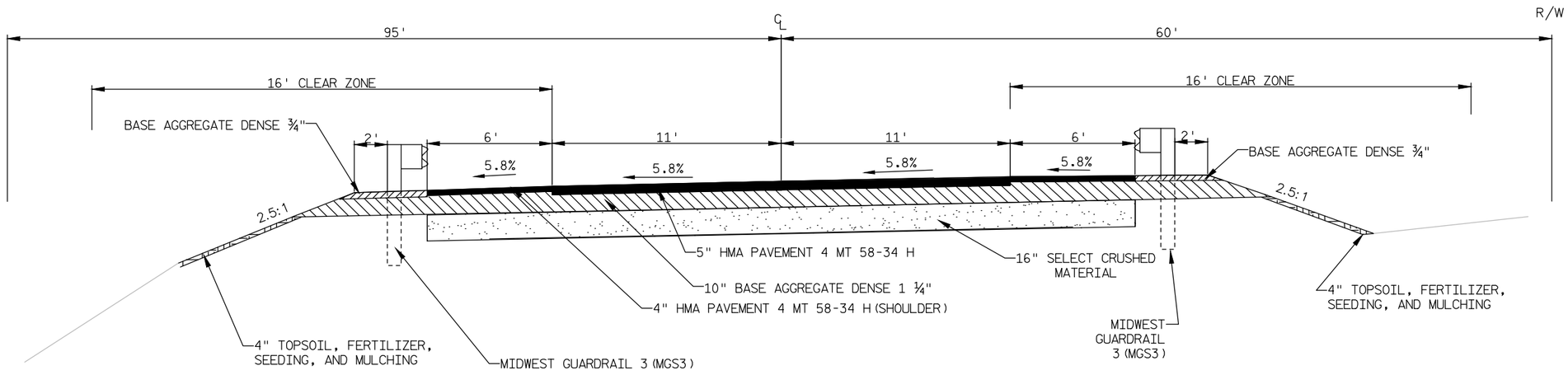
EXIST	PROP	
		BASE AGGREGATE DENSE 1 ¼"
		ASPHALTIC PAVEMENT
		BASE AGGREGATE DENSE ¾" (SHOULDERS)
		TOPSOIL

PROJECT NO:7105-05-70	HWY: STH 128	COUNTY: PIERCE	TYPICAL SECTION	SHEET 8	E



FINISHED TYPICAL RURAL SECTION

STA 167+17 TO STA 167+75
STA 168+75 TO STA 169+10 RIGHT
STA 168+75 TO STA 169+78 LEFT



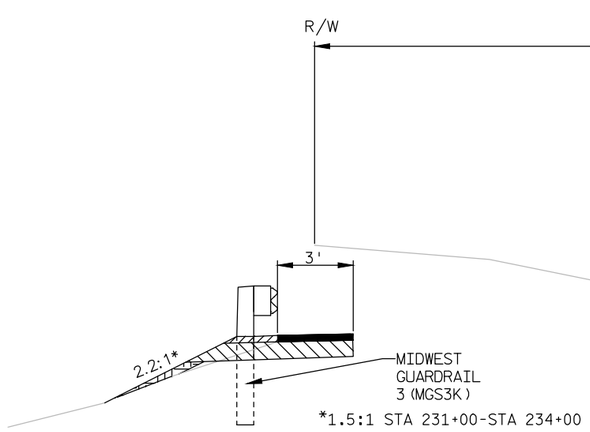
FINISHED TYPICAL RURAL SECTION

STA 167+75 TO STA 168+75

LEGEND

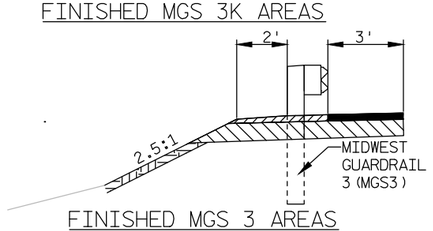
EXIST	PROP	
		BASE AGGREGATE DENSE 1 ¼"
		ASPHALTIC PAVEMENT
		BASE AGGREGATE DENSE ¾" (SHOULDERS)
		TOPSOIL

PROJECT NO:7105-05-70	HWY: STH 128	COUNTY: PIERCE	TYPICAL SECTION	SHEET 9	E

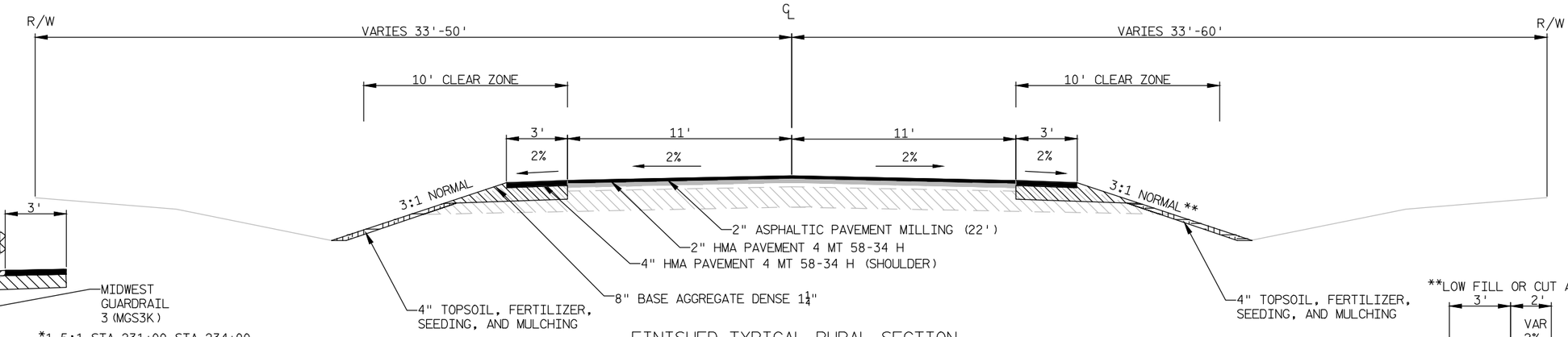


*1.5:1 STA 231+00-STA 234+00

FINISHED MGS 3K AREAS

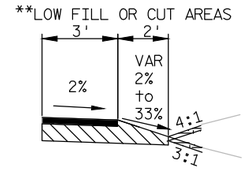


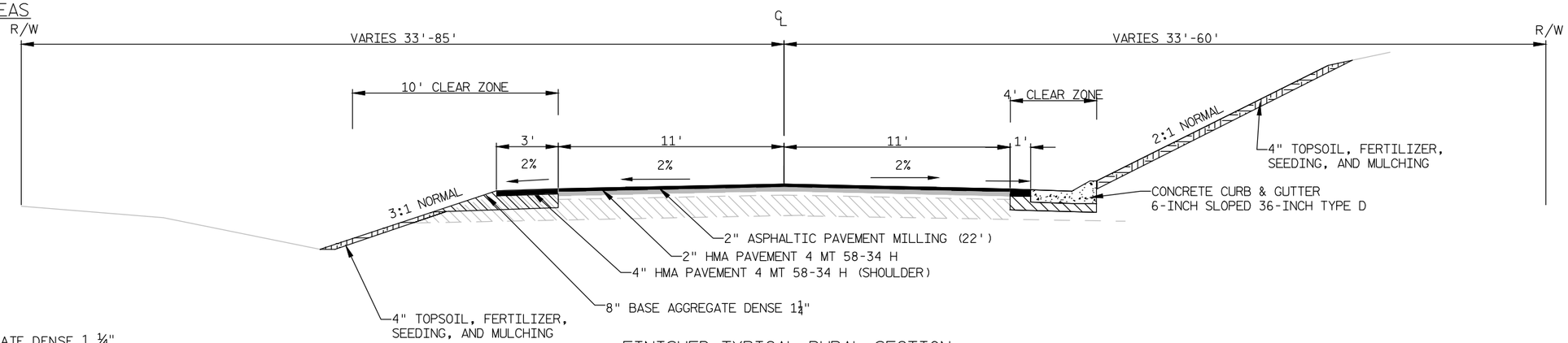
FINISHED MGS 3 AREAS



FINISHED TYPICAL RURAL SECTION

STATION 169+10 TO STATION 169+78 RIGHT
STATION 169+78 TO STATION 207+25
STATION 215+00 TO STATION 221+50
STATION 223+50 TO STATION 248+00





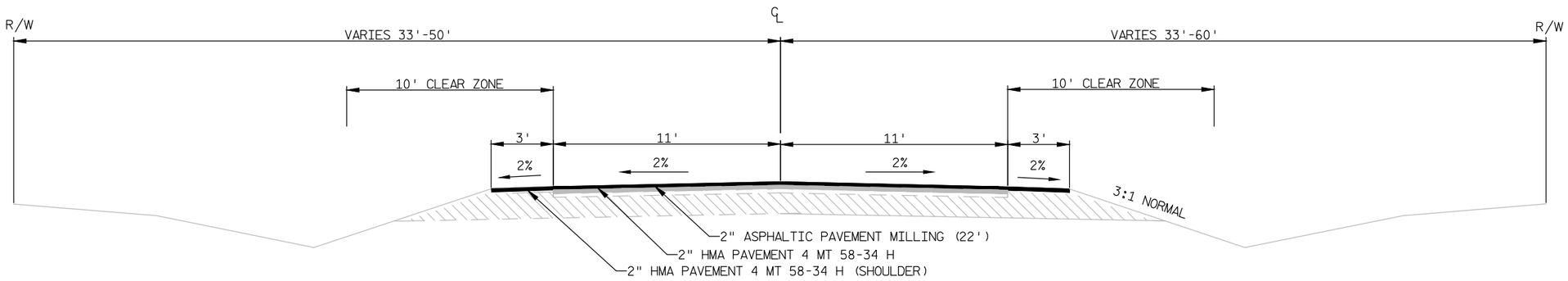
FINISHED TYPICAL RURAL SECTION

STATION 208+25 TO STATION 215+00

LEGEND

EXIST	PROP	
		BASE AGGREGATE DENSE 1 ¼"
		ASPHALTIC PAVEMENT
		BASE AGGREGATE DENSE ¾" (SHOULDERS)
		TOPSOIL

PROJECT NO:7105-05-70	HWY: STH 128	COUNTY: PIERCE	TYPICAL SECTION	SHEET 10	E



FINISHED TYPICAL RURAL SECTION

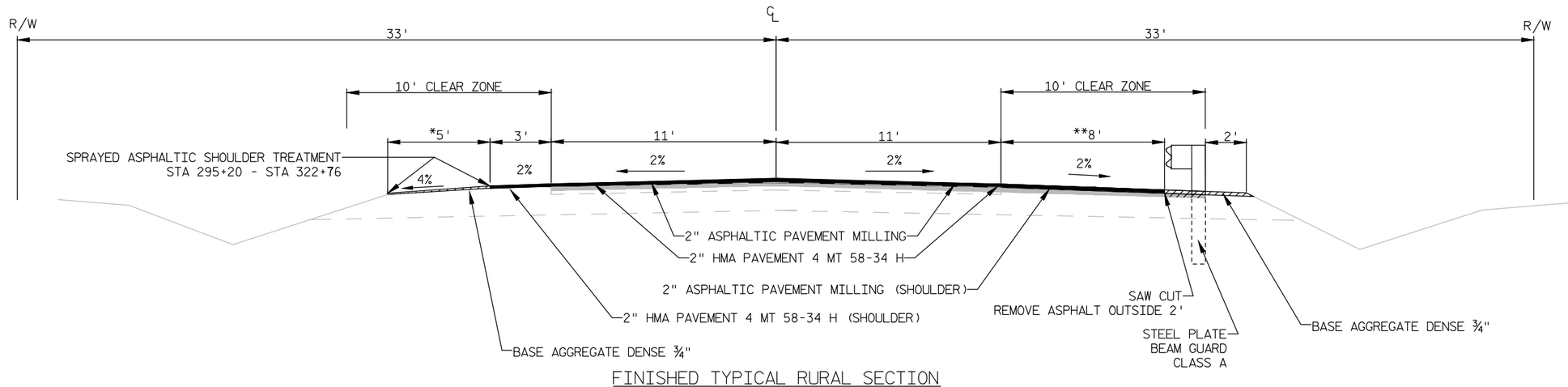
STATION 248+00 TO STATION 289+90
STATION 324+76 TO STATION 386+00
STATION 391+00 TO STATION 406+00
STATION 410+00 TO STATION 476+88

END

PROP

- BASE AGGREGATE DENSE 1 ¼"
- ASPHALTIC PAVEMENT
- BASE AGGREGATE DENSE ¾" (SHOULDERS)
- TOPSOIL

PROJECT NO:7105-05-70	HWY: STH 128	COUNTY: PIERCE	TYPICAL SECTION	SHEET 11	E

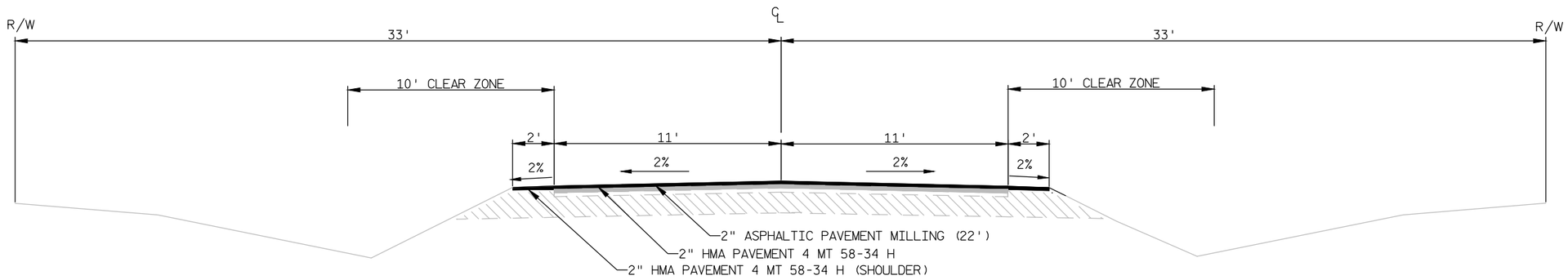


FINISHED TYPICAL RURAL SECTION

STATION 289+80 TO STATION 324+76

* VARIES 0'- 5'
- 0' STATION 289+90 TO STATION 295+20
- 0'-5' STATION 322+76 TO STATION 324+76
- 5'-0' STATION 295+20 TO STATION 296+20
- 0' STATION 322+26 TO STATION 322+76

** VARIES 3'- 8'
- STATION 289+80 TO STATION 292+60
- STATION 322+76 TO STATION 324+76



FINISHED TYPICAL RURAL SECTION

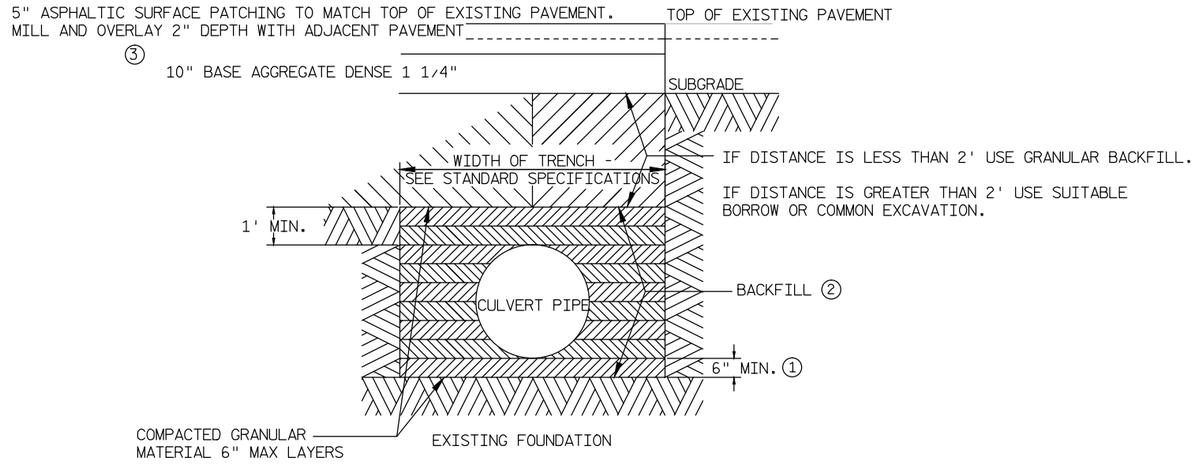
STATION 386+00 TO STATION 391+00
STATION 406+00 TO STATION 410+00

LEGEND

EXIST	PROP	
		BASE AGGREGATE DENSE 1 ¼"
		ASPHALTIC PAVEMENT
		BASE AGGREGATE DENSE ¾" (SHOULDERS)
		TOPSOIL

PROJECT NO:7105-05-70	HWY: STH 128	COUNTY: PIERCE	TYPICAL SECTION	SHEET 12	E

2



CULVERT PIPE TRENCH BACKFILL DETAIL

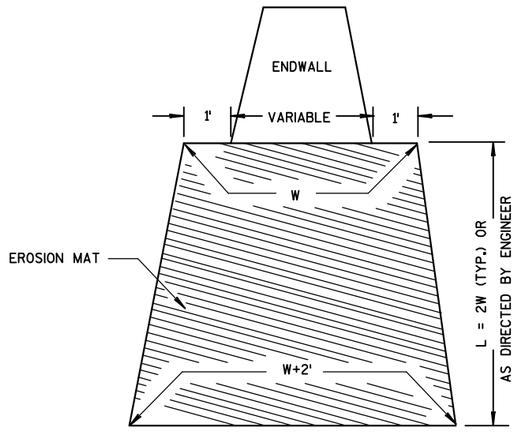
NOTES

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

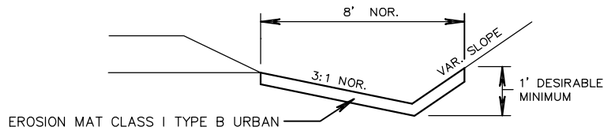
① WHERE ROCK, HARD PAN, OR FRAGMENTED MATERIAL IS ENCOUNTERED THE TRENCH SHALL BE EXCAVATED BELOW THE BOTTOM OF THE PIPE AN AMOUNT EQUAL TO 1/2 INCH PER FOOT OF PROPOSED EMBANKMENT ABOVE THE TOP OF THE PIPE, BUT NOT LESS THAN 6 INCHES.

② TRENCH SHALL BE BACKFILLED AS REQUIRED BY STANDARD SPECIFICATIONS SECTION 520 FOR PIPE CULVERTS.

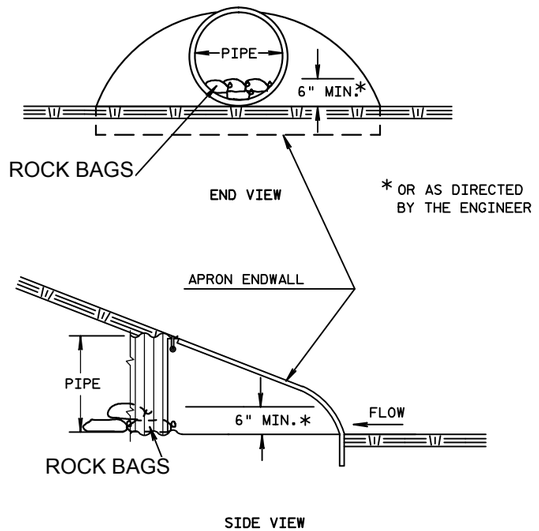
③ PAYMENT FOR BASE AGGREGATE AND PAVING ITEMS ARE INCLUDED WITH THE APPROPRIATE BID ITEMS



EROSION MAT TREATMENT AT CULVERTS

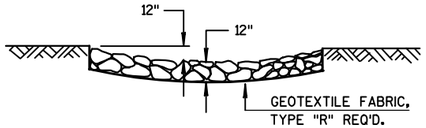


EROSION MAT DETAIL FOR DITCHES

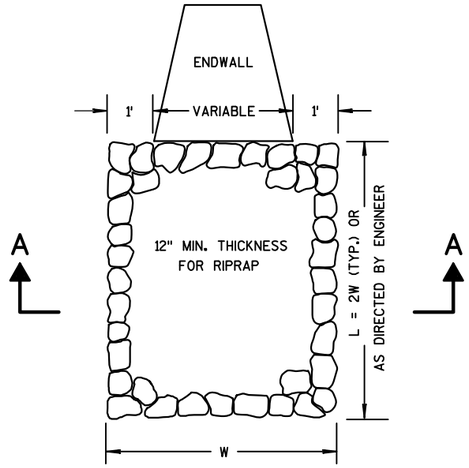


CULVERT PIPE CHECK

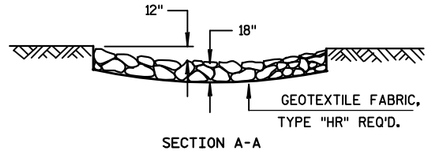
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE		SHEET 13	E



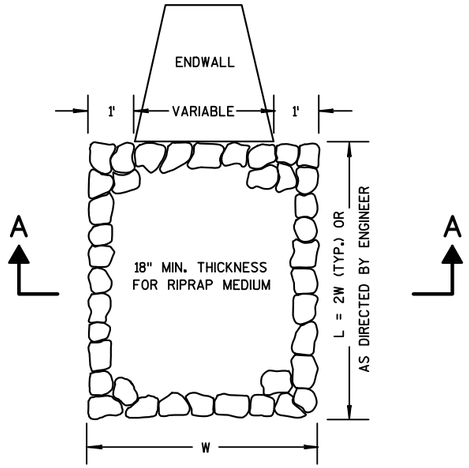
SECTION A-A



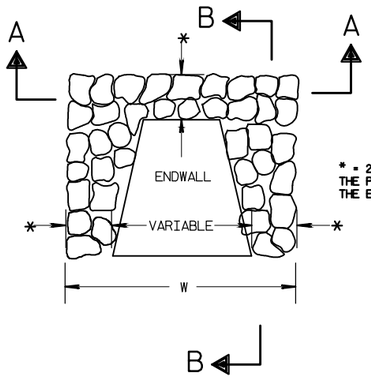
RIPRAP LIGHT TREATMENT AT CULVERTS



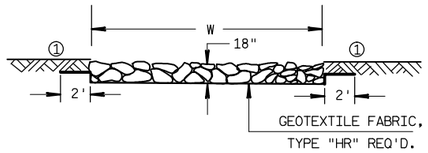
SECTION A-A



RIPRAP MEDIUM TREATMENT AT CULVERTS

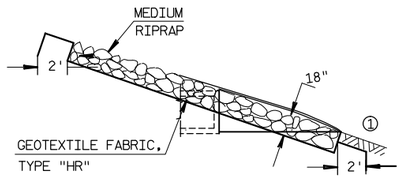


* = 2'. ½ THE DIAMETET OF THE PIPE OR AS DIRECTED BY THE ENGINEER.



SECTION A-A

① EDGE OF GEOTEXTILE FABRIC TYPE "HR" TO BE BURIED UNDER TOPSOIL (4" MIN)



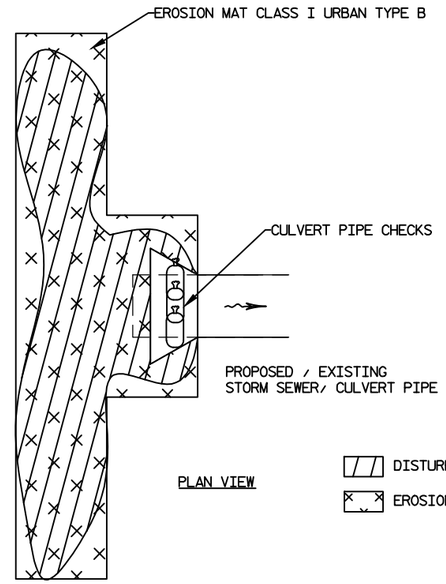
SECTION B-B

RIPRAP MEDIUM COLLAR TREATMENT AT CULVERTS

RUNOFF COEFFICIENT TABLE

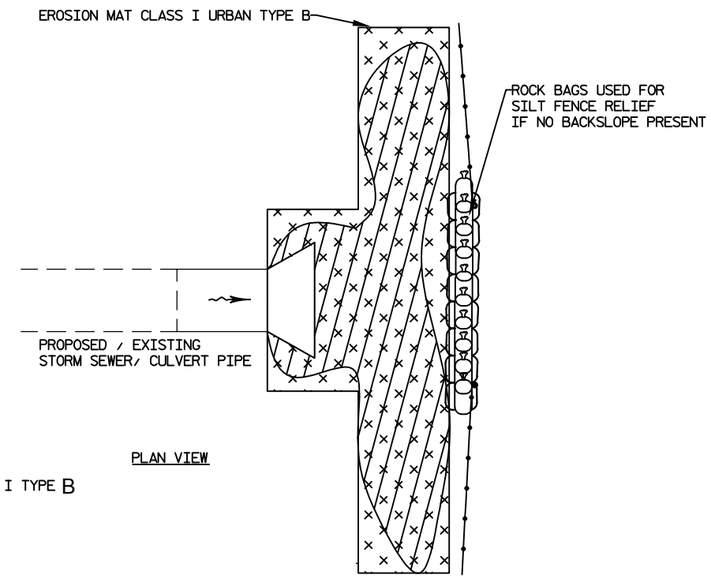
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33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

TOTAL PROJECT AREA = _____ ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = _____ACRES



DISTURBED AREA

EROSION MAT URBAN CLASS I TYPE B

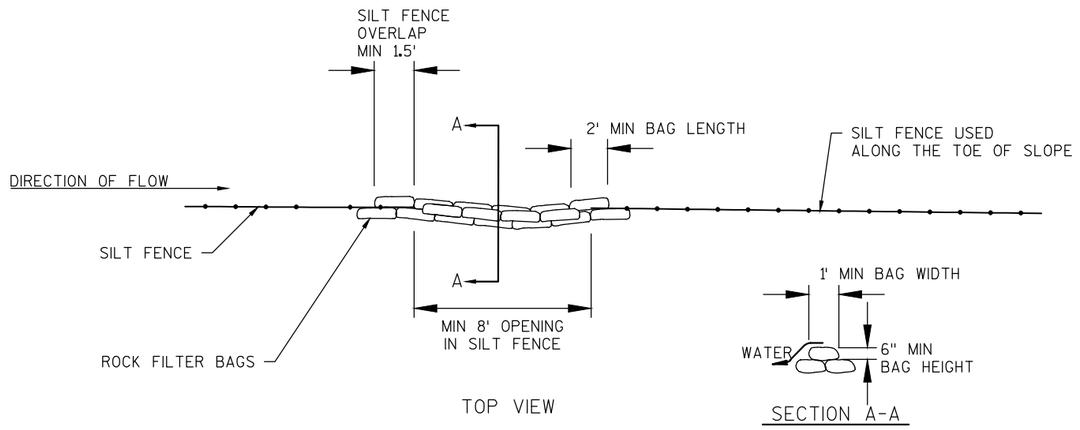


EROSION CONTROL AT INLET

EROSION CONTROL AT OUTFALL

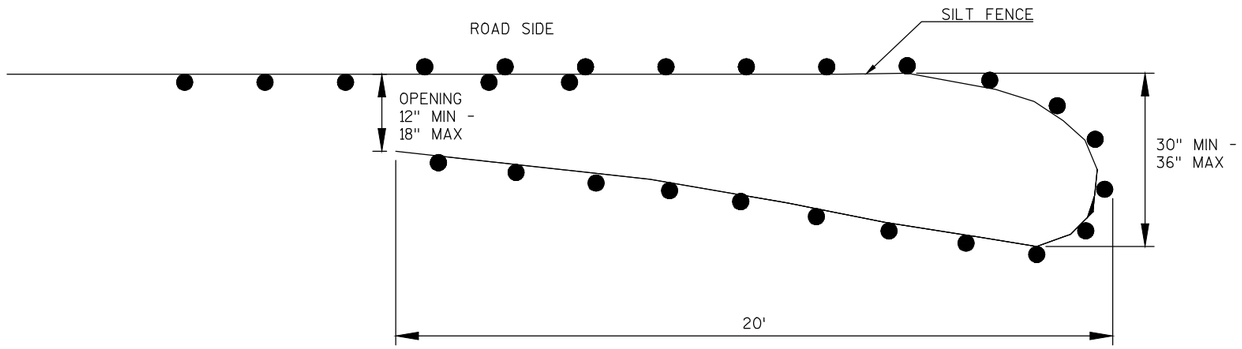
EROSION CONTROL AT APRON ENDWALLS

FOR USE IN DITCH CLEANING, PIPE EXTENSIONS AND ENDWALL REPLACEMENTS



ROCK BAGS USED FOR SILT FENCE RELIEF

2



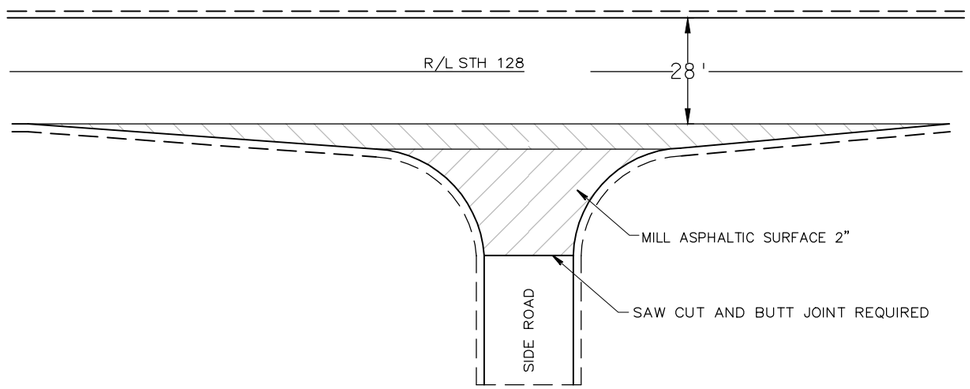
PLAN VIEW

GENERAL NOTES:

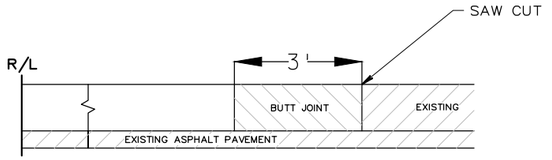
SILT FENCE POSTS FOR THE TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND. AND TRENCHED IN ACCORDING TO SILT FENCE REQUIREMENTS.

TEMPORARY SMALL ANIMAL TURN-AROUND

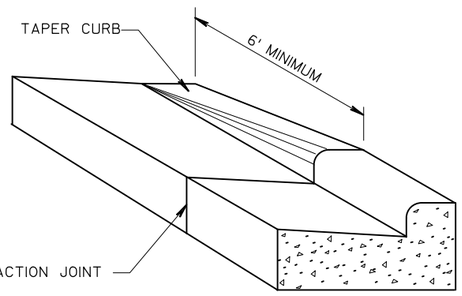
2



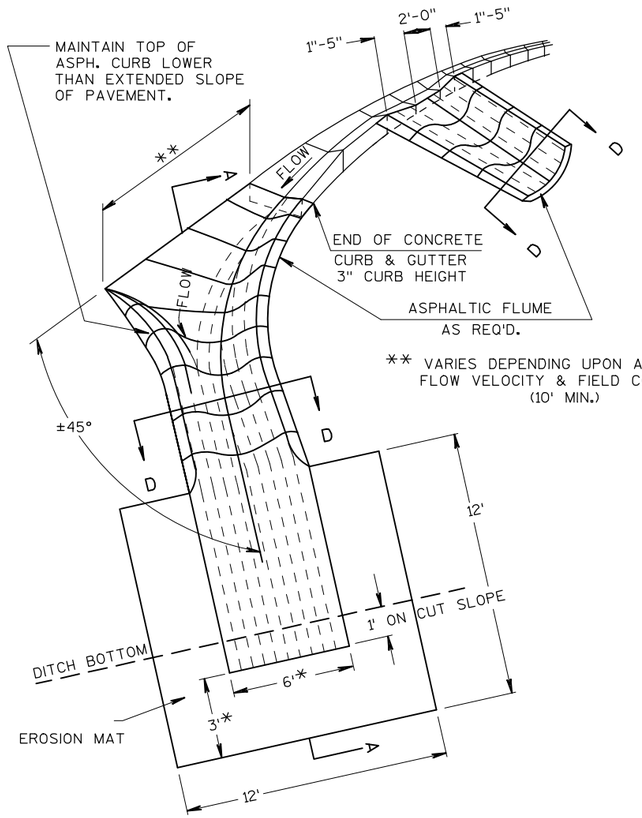
REMOVING ASPHALTIC SURFACE MILLING
PAVED SIDEROAD

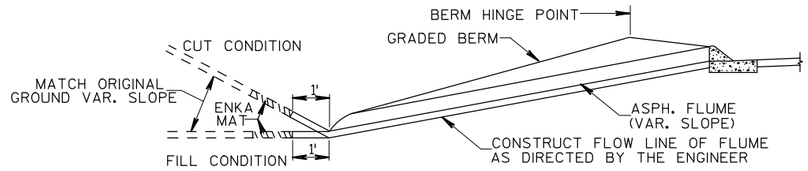


BUTT JOINT PAY LIMITS

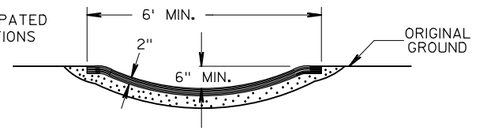


DETAIL OF CURB & GUTTER TERMINI





SECTION A-A



SECTION D-D

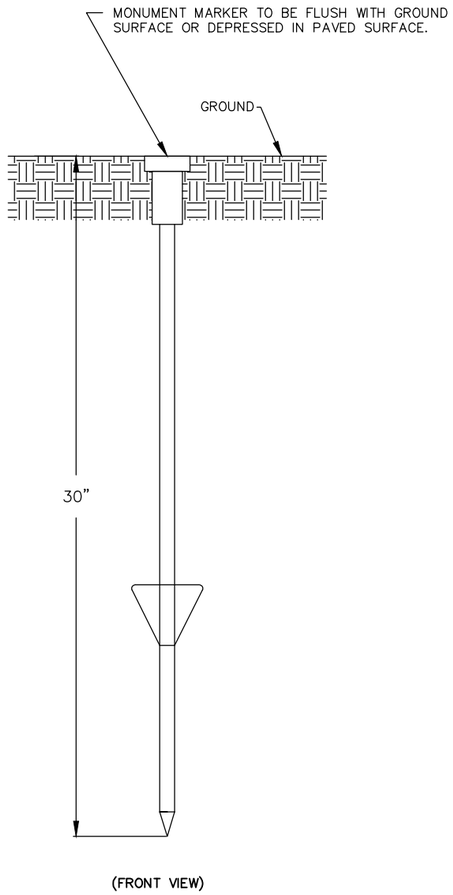
ASPHALTIC FLUME DETAIL

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CONSTRUCTION DETAILS	SHEET 17	E



WIS DOT MONUMENT CAP MARKER LOGO (SSDR130)

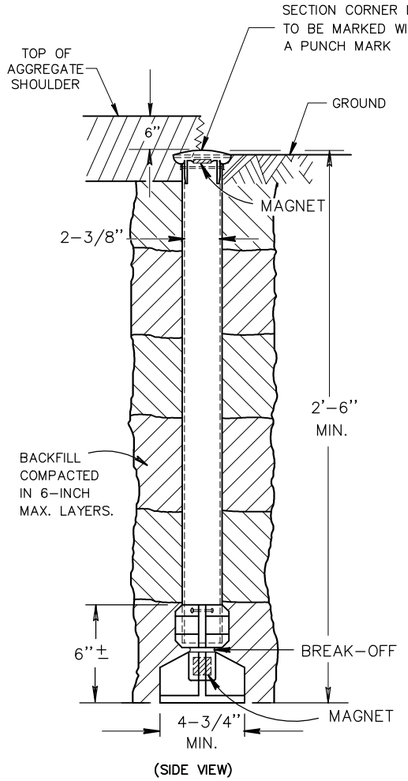
CONTRACTOR TO ORDER LANDMARK REFERENCE MONUMENTS WITH THE ABOVE STAMPING



(FRONT VIEW)

BERNSTEN DRIVABLE MONUMENT SSDR130

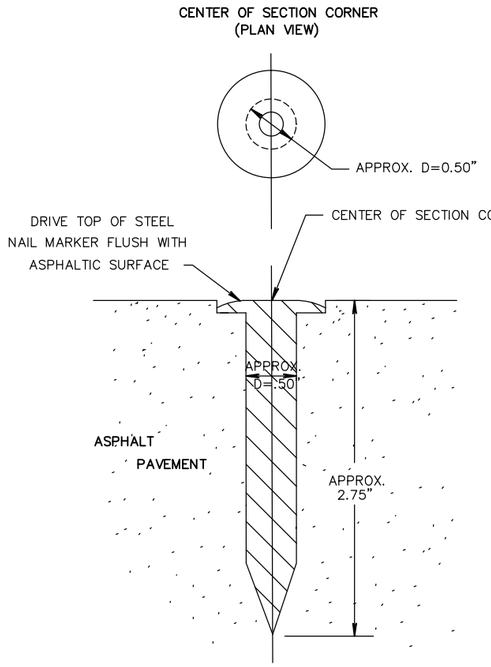
LANDMARK REFERENCE MONUMENT (TIES ONLY)



(SIDE VIEW)

OUTSIDE OF PAVEMENT

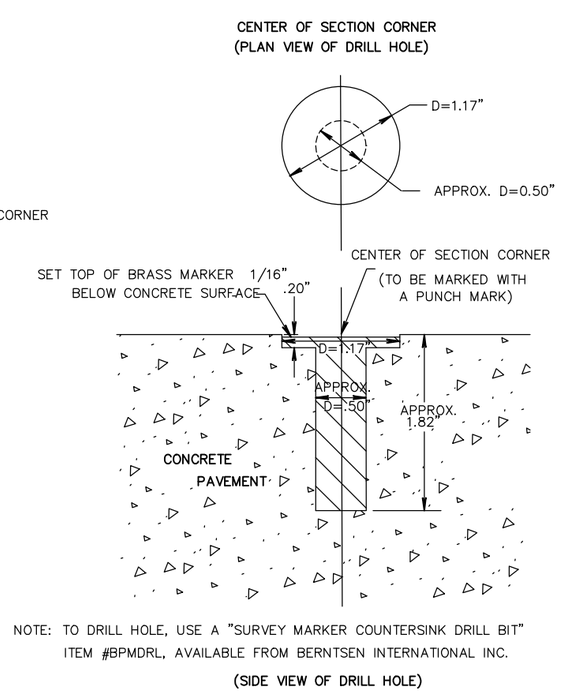
BERNTSEN A1BR30 ALUMINUM BREAK–OFF MONUMENT



(SIDE VIEW)

IN ASPHALTIC PAVEMENT

BERNTSEN SNM1 STEEL NAIL MARKER



NOTE: TO DRILL HOLE, USE A "SURVEY MARKER COUNTERSINK DRILL BIT" ITEM #BPMDRL, AVAILABLE FROM BERNTSEN INTERNATIONAL INC.

(SIDE VIEW OF DRILL HOLE)

IN CONCRETE PAVEMENT

BERNTSEN BP – 1 BRASS MARKER WITH ANCHOR PLUG

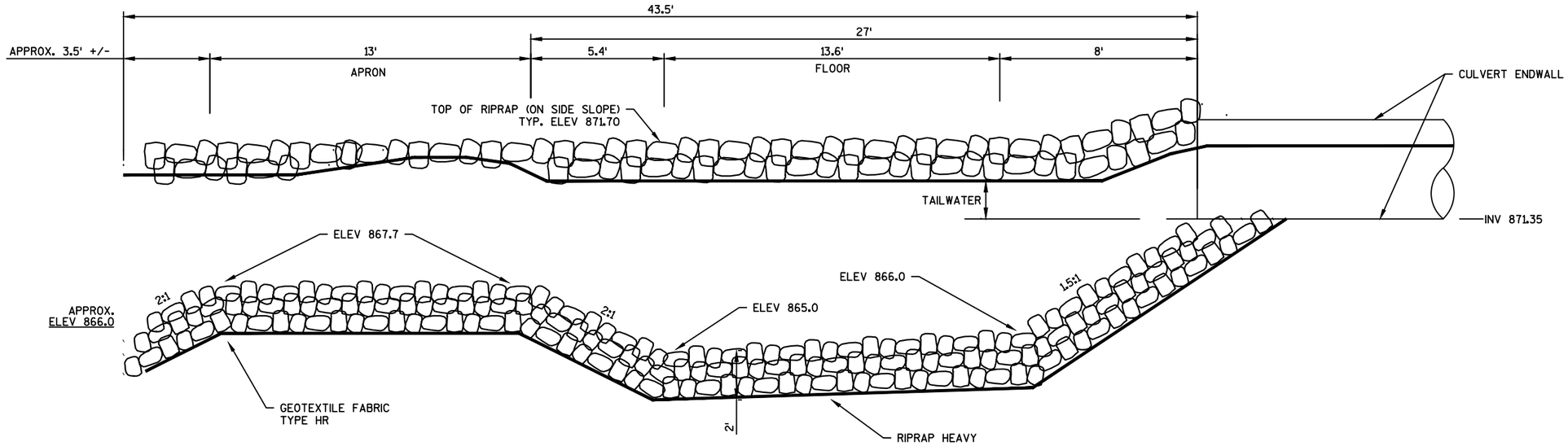
SECTION CORNER MONUMENTS

GENERAL NOTES

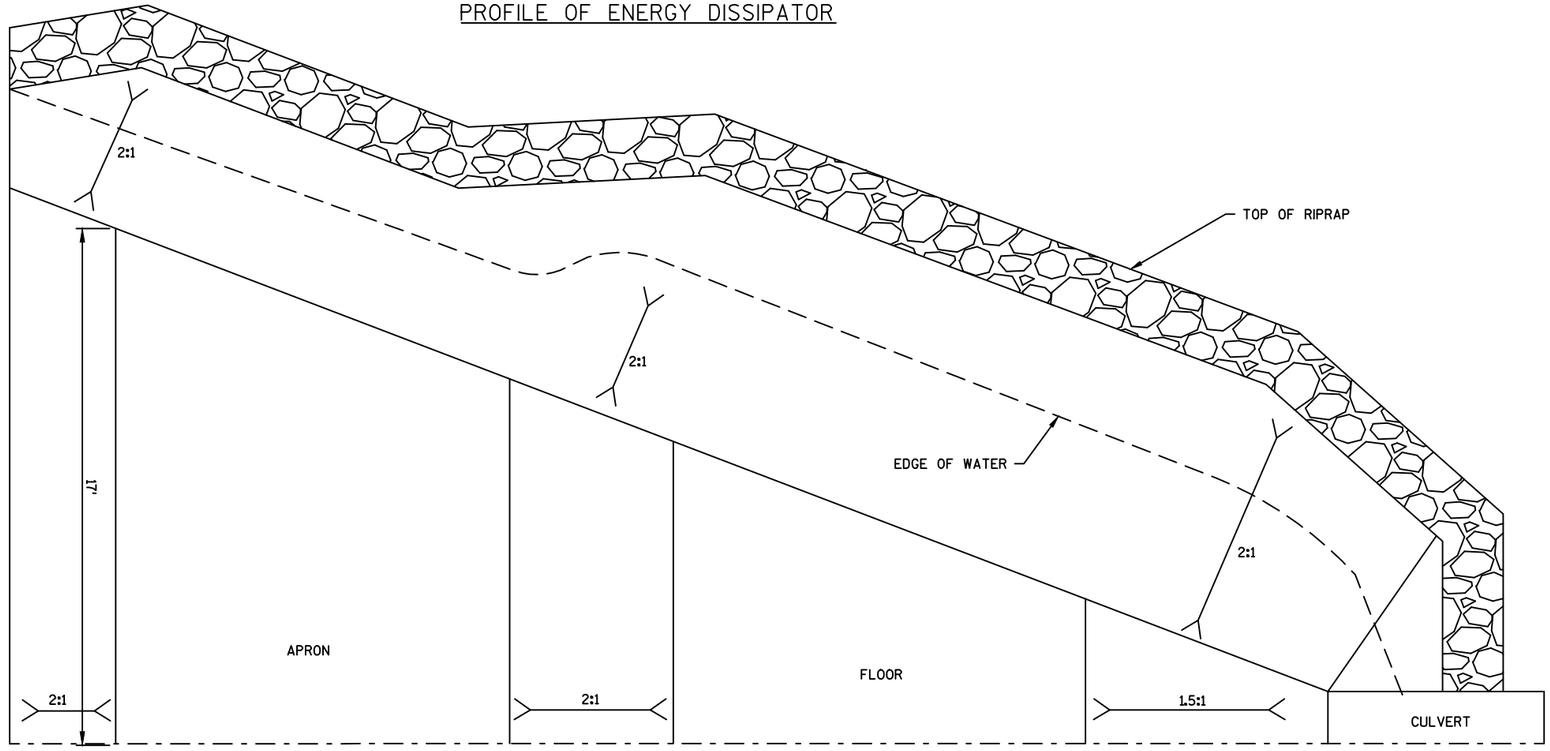
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

CONTRACTOR WILL SUPPLY ALL REQUIRED SURVEY MONUMENTS.

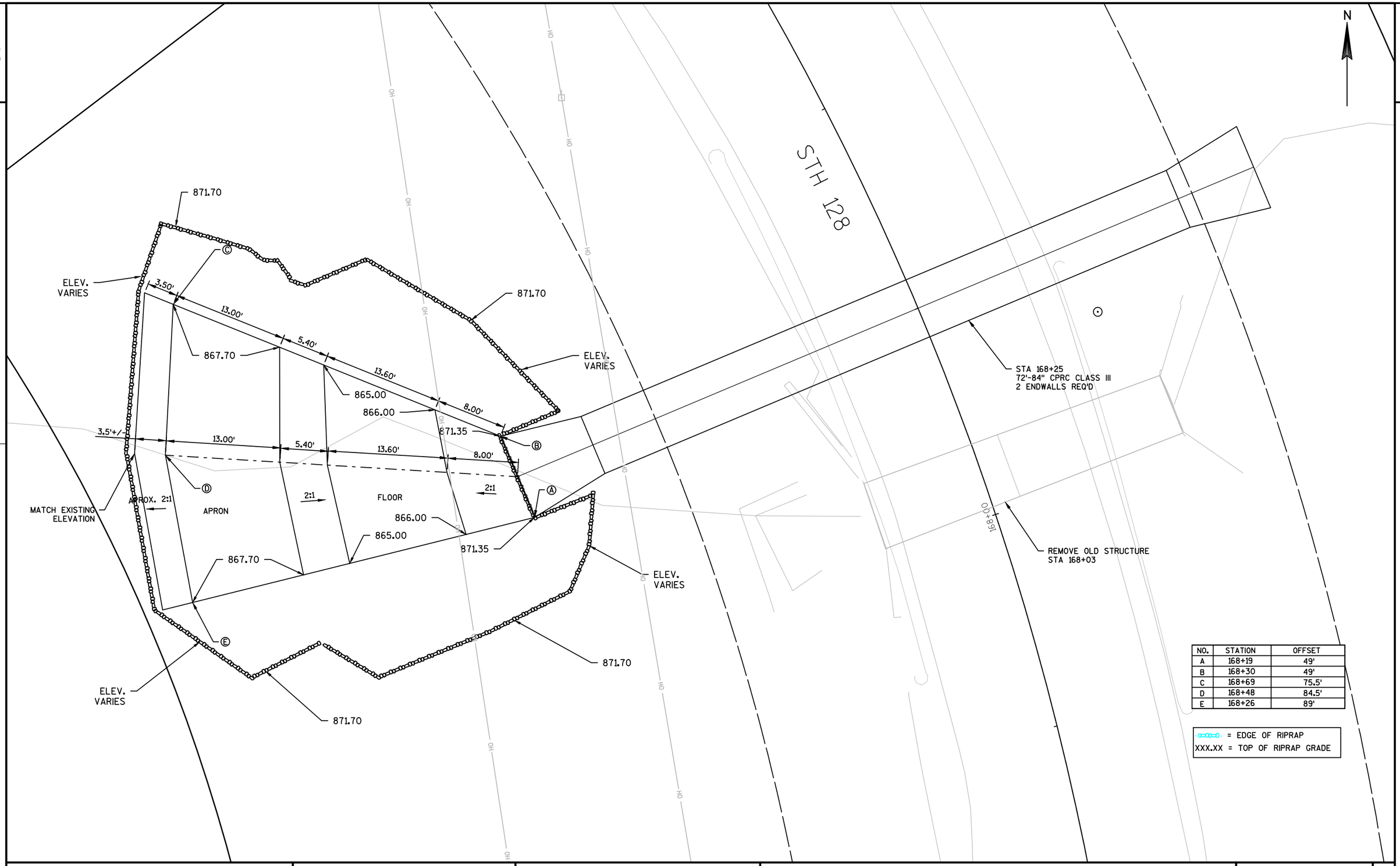


PROFILE OF ENERGY DISSIPATOR



HALF PLAN OF ENERGY DISSIPATOR

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN: CONSTRUCTION DETAIL	SHEET 19	E



NO.	STATION	OFFSET
A	168+19	49'
B	168+30	49'
C	168+69	75.5'
D	168+48	84.5'
E	168+26	89'

= EDGE OF RIPRAP
XXX.XX = TOP OF RIPRAP GRADE

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CONSTRUCTION DETAIL	SHEET 20	E

2

N

STH 128

APRON

FLOOR

STA 168+25
72'-84" CPRC CLASS III
2 ENDWALLS REQ'D

168+00

REMOVING OLD STRUCTURE
STA 168+03

EXISTING CONTOUR

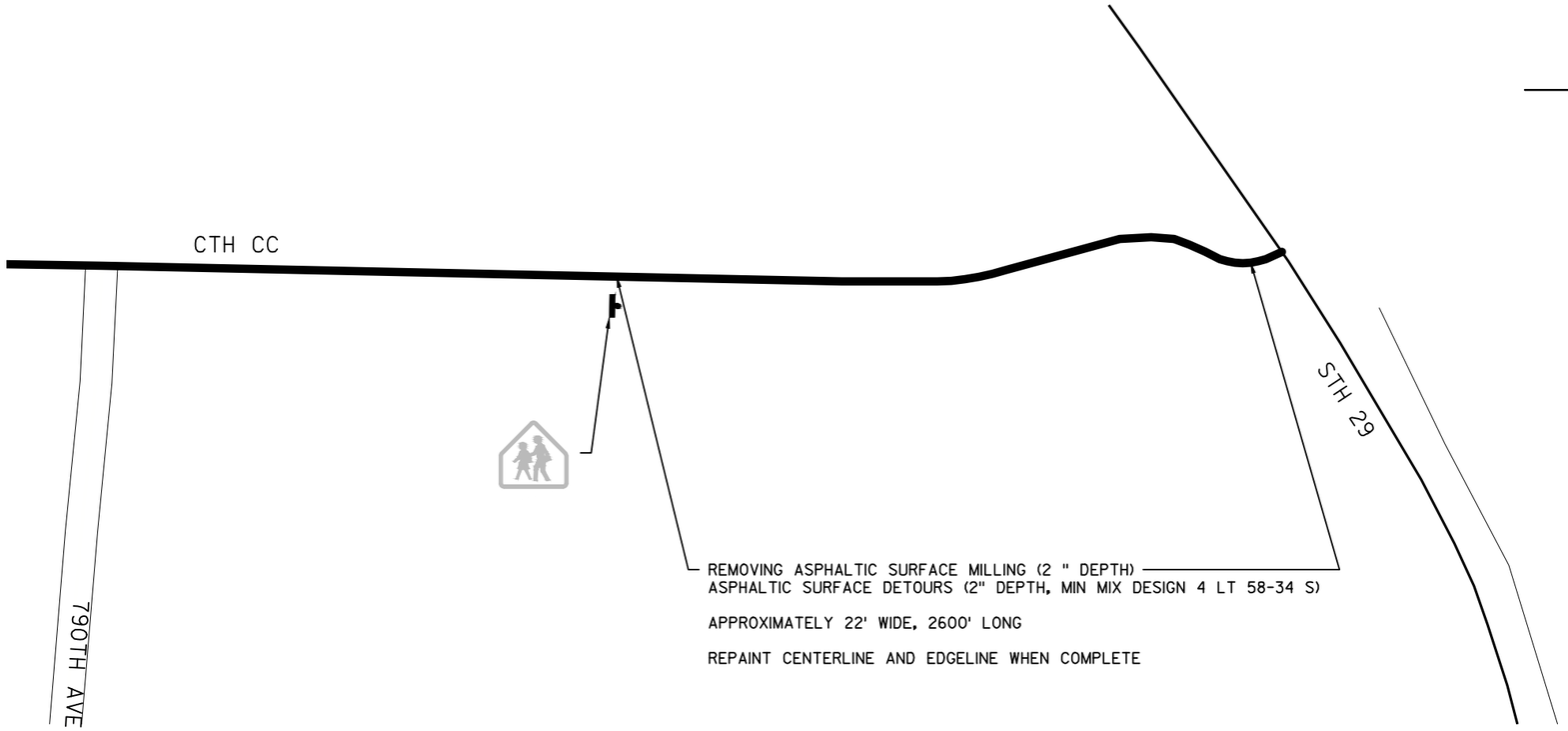
PROPOSED CONTOUR

EARTHWORK FOR ENERGY DISSIPATOR		
COMMON EXC.	FILL	NET
155 CY	22 CY	132 CY

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CONSTRUCTION DETAIL	SHEET	E

FILE NAME : F:\TR\JOBS\E2062A12\CIVIL 3D 2012\BASEDATA\OTHER\RIPRAP BASIN ENERGY DISSIPATOR.DWG PLOT DATE : 6/30/2016 1:40 PM PLOT BY : MATT TOMSOVIC PLOT NAME :

2

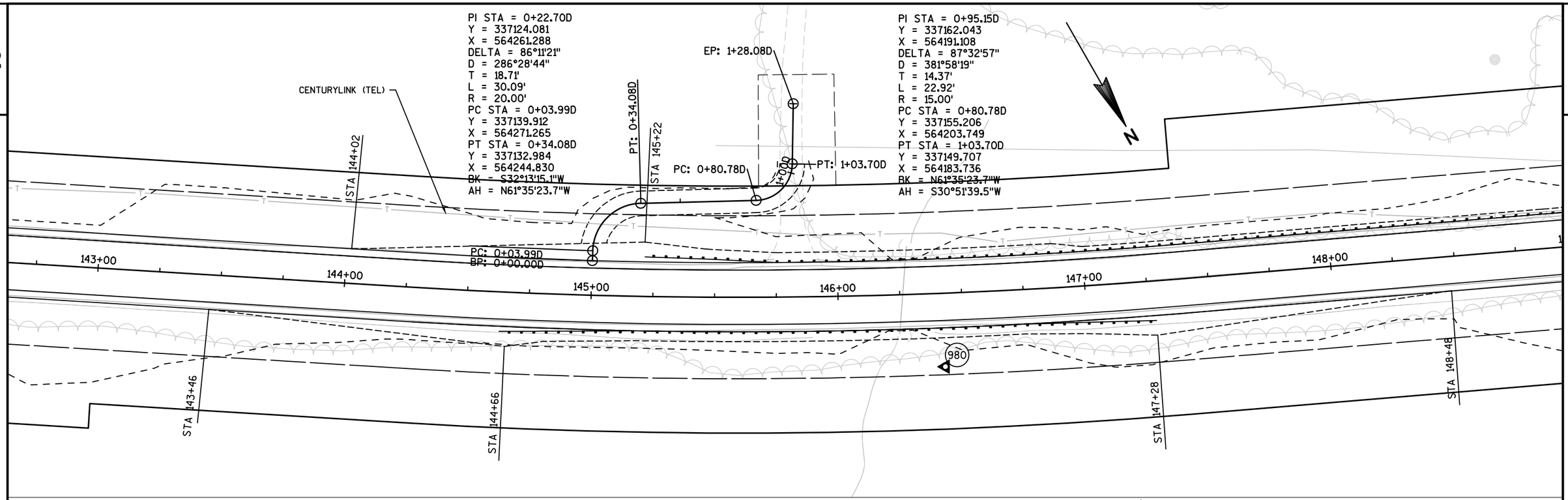


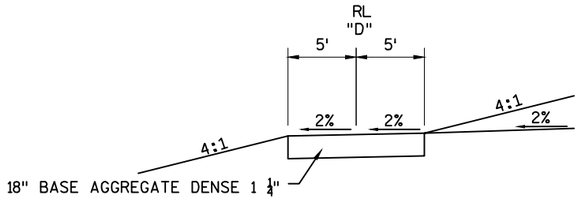
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CONSTRUCTION DETAIL - DETOUR ROUTE	SHEET 22	E

2

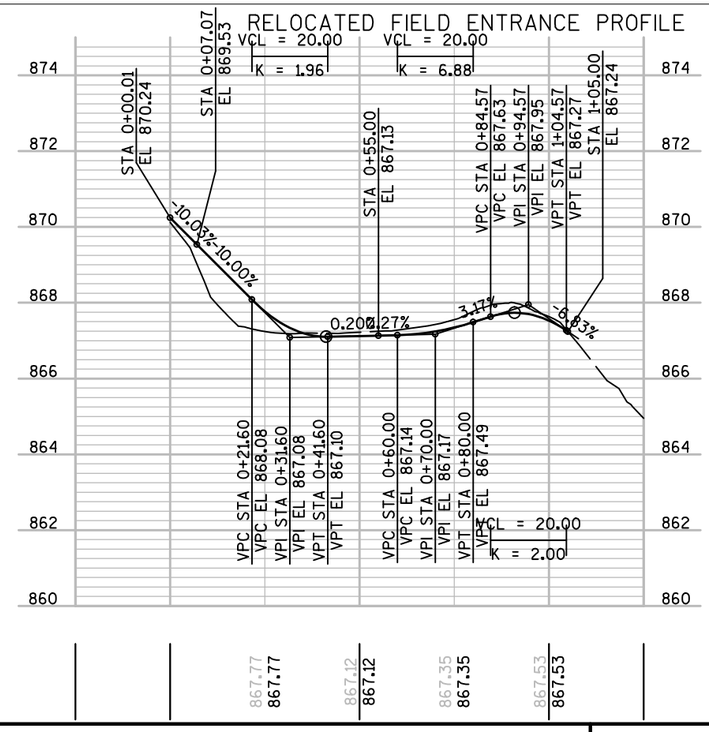
PI STA = 0+22.70D
Y = 337124.081
X = 564261.288
DELTA = 86°11'21"
D = 286°28'44"
T = 18.71'
L = 30.09'
R = 20.00'
PC STA = 0+03.99D
Y = 337139.912
X = 564271.265
PT STA = 0+34.08D
Y = 337132.984
X = 564244.830
BK = S32°13'15.1"W
AH = N61°35'23.7"W

PI STA = 0+95.15D
Y = 337162.043
X = 564191.108
DELTA = 87°32'57"
D = 381°58'19"
T = 14.37'
L = 22.92'
R = 15.00'
PC STA = 0+80.78D
Y = 337155.206
X = 564203.749
PT STA = 1+03.70D
Y = 337149.707
X = 564183.736
BK = N61°35'23.7"W
AH = S30°51'39.5"W





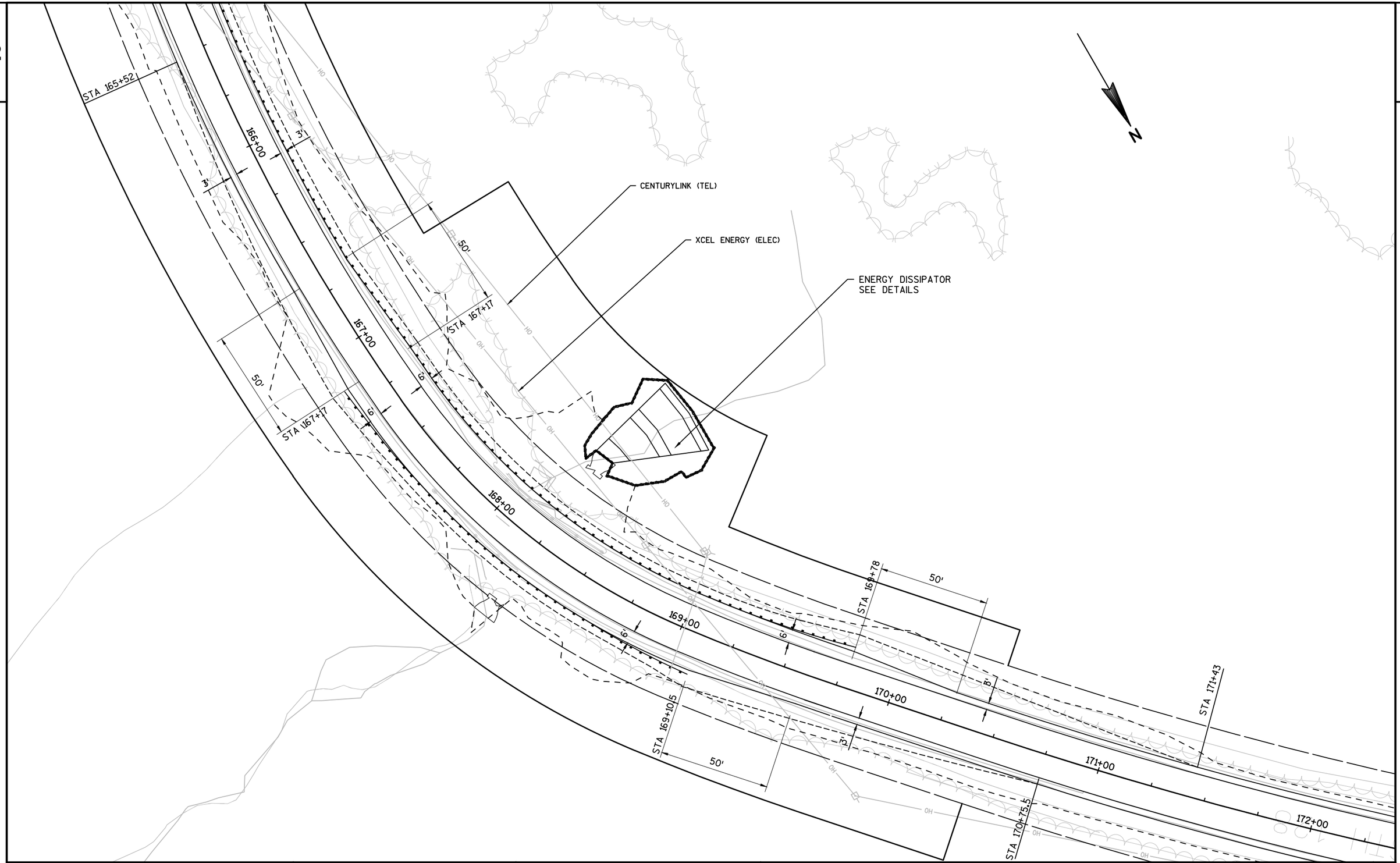
RELOCATED FIELD ENTRANCE
TYPICAL SECTION



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN DETAIL	SHEET 23	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\021201_PD_STH128.DWG
LAYOUT NAME - ****
PLOT DATE : 5/24/2016 2:21 PM
PLOT BY : ADAM OSYPOWSKI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

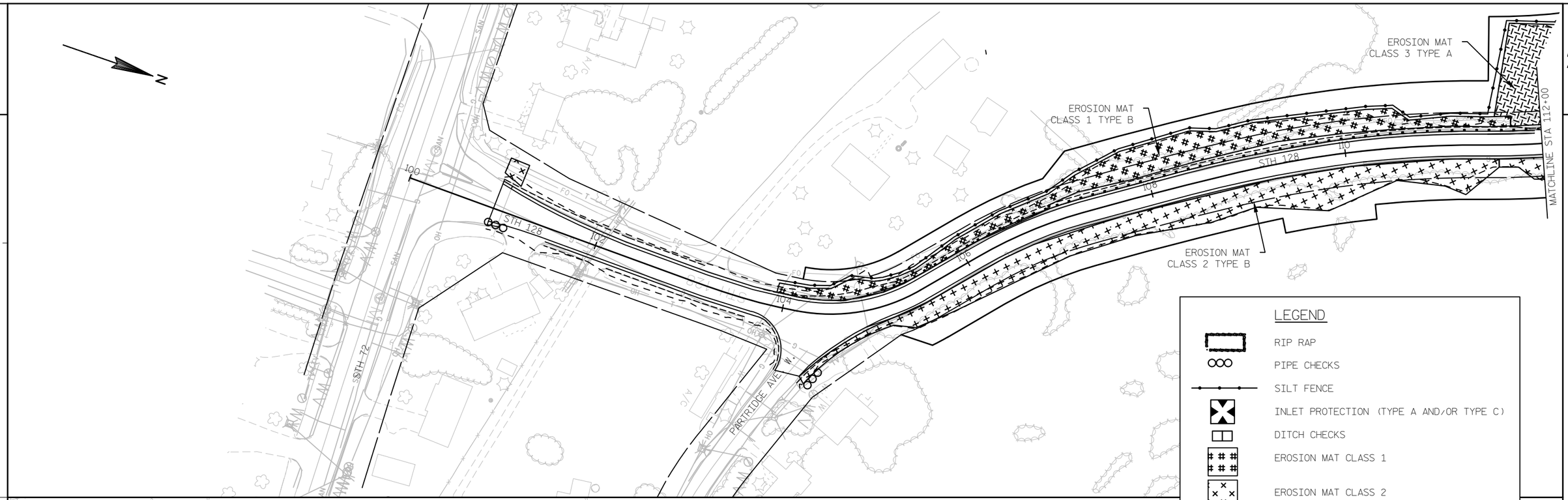
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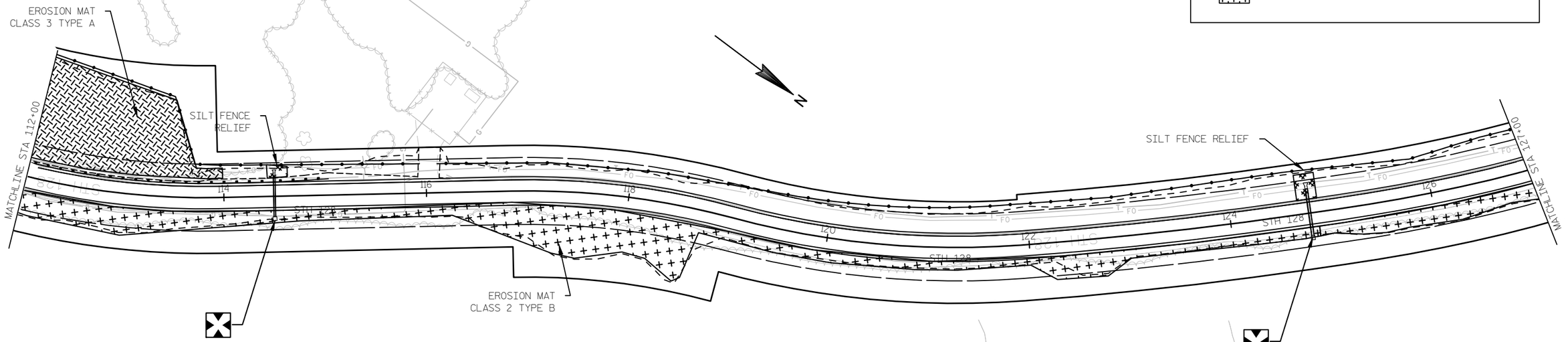


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN DETAIL	SHEET 24	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\021201_PD_STH128.DWG
LAYOUT NAME - ****

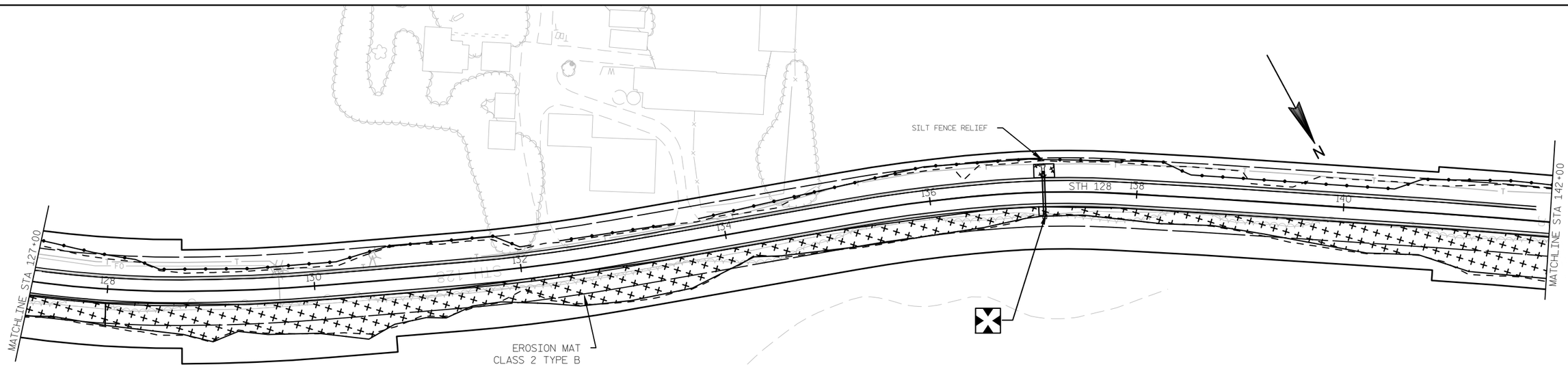
PLOT DATE : 5/24/2016 2:22 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:40 FT





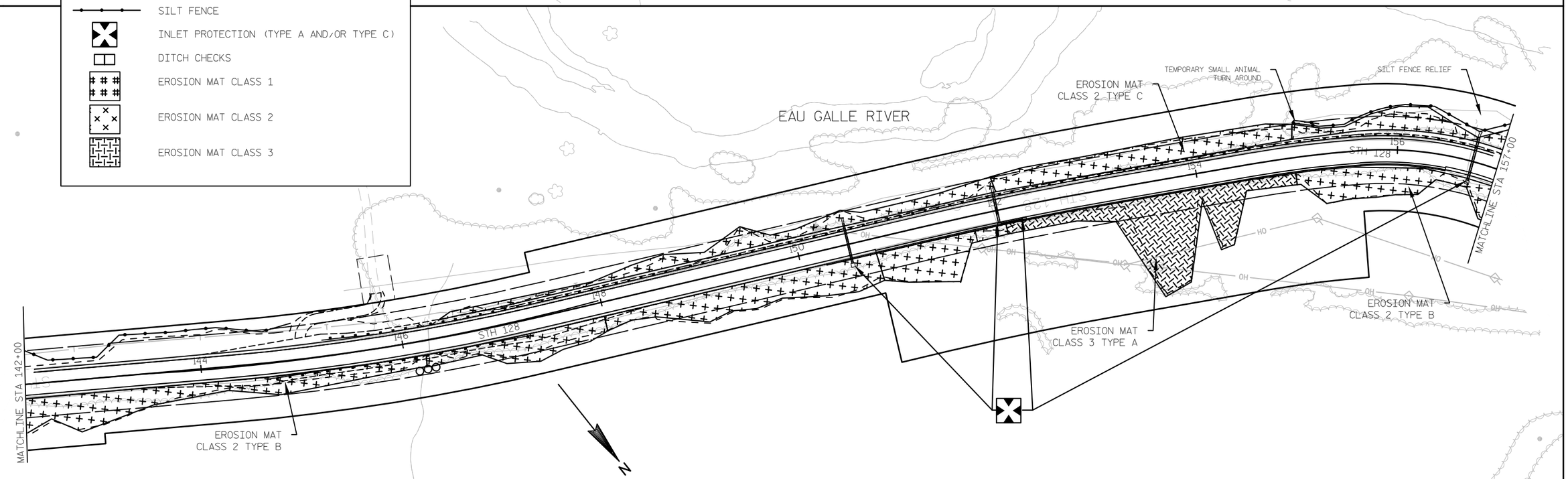
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 25	E

2



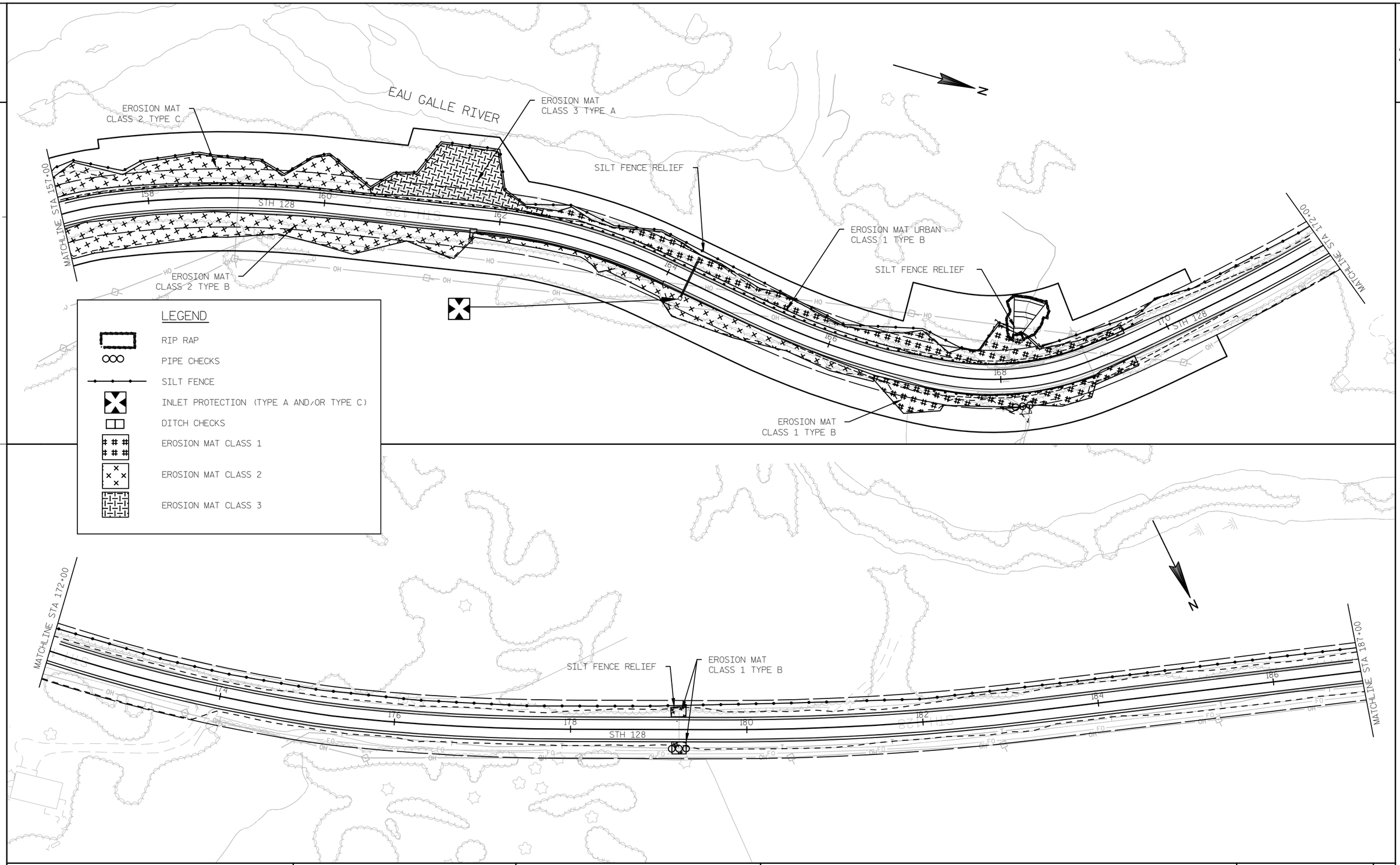
LEGEND

- RIP RAP
- PIPE CHECKS
- SILT FENCE
- INLET PROTECTION (TYPE A AND/OR TYPE C)
- DITCH CHECKS
- EROSION MAT CLASS 1
- EROSION MAT CLASS 2
- EROSION MAT CLASS 3



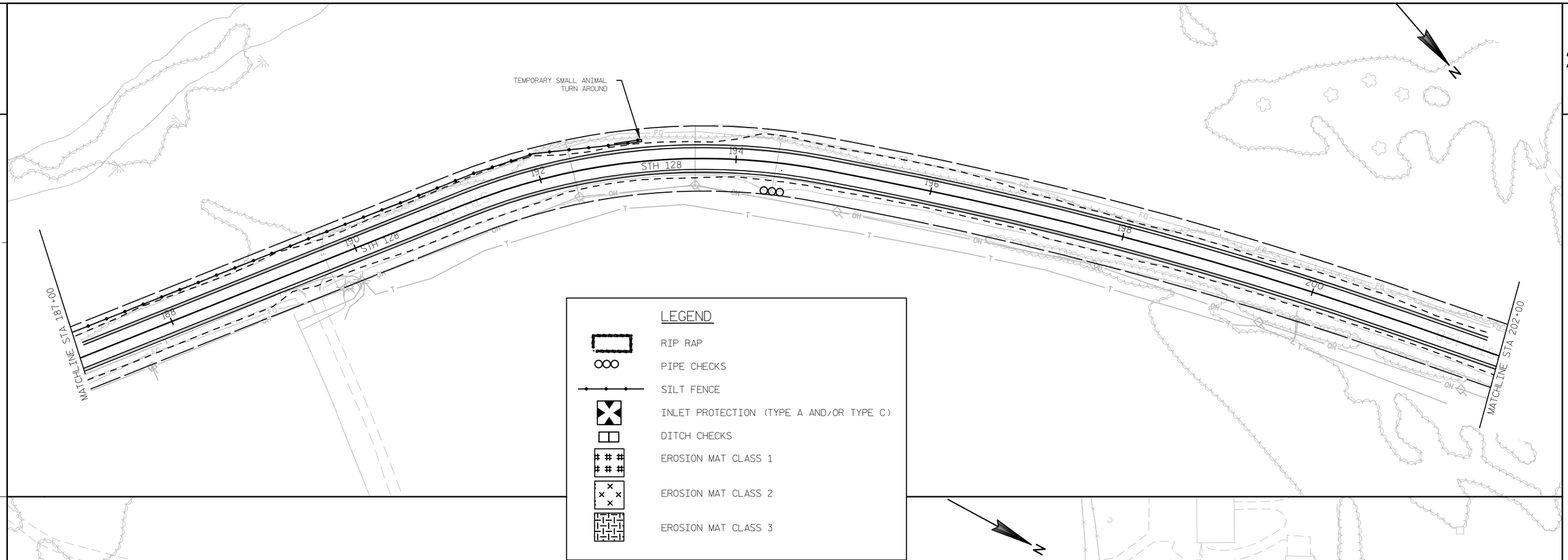
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 26	E

2



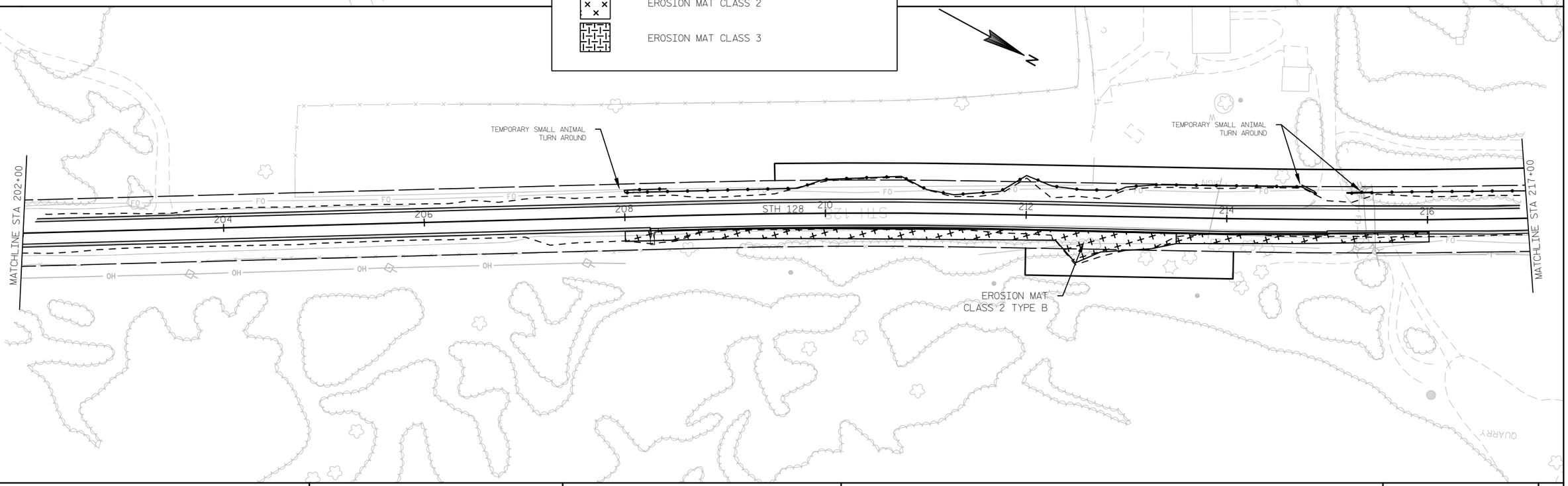
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 27	E

2



LEGEND

- RIP RAP
- PIPE CHECKS
- SILT FENCE
- INLET PROTECTION (TYPE A AND/OR TYPE C)
- DITCH CHECKS
- EROSION MAT CLASS 1
- EROSION MAT CLASS 2
- EROSION MAT CLASS 3



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 28	E

2

TEMPORARY SMALL ANIMAL TURN AROUND

EROSION MAT CLASS 3 TYPE A

TEMPORARY SMALL ANIMAL TURN AROUND

EROSION MAT CLASS 1 TYPE B

MATCHLINE STA 232+00

MATCHLINE STA 217+00

STH 128

LEGEND

- RIP RAP
- PIPE CHECKS
- SILT FENCE
- INLET PROTECTION (TYPE A AND/OR TYPE C)
- DITCH CHECKS
- EROSION MAT CLASS 1
- EROSION MAT CLASS 2
- EROSION MAT CLASS 3

MATCHLINE STA 232+00

EROSION MAT CLASS 1 TYPE B

EAU GALLE RIVER

EROSION MAT CLASS 2 TYPE B

TEMPORARY SMALL ANIMAL TURN AROUND

SILT FENCE RELIEF

TEMPORARY SMALL ANIMAL TURN AROUND

EROSION MAT CLASS 1 TYPE B

STH 128

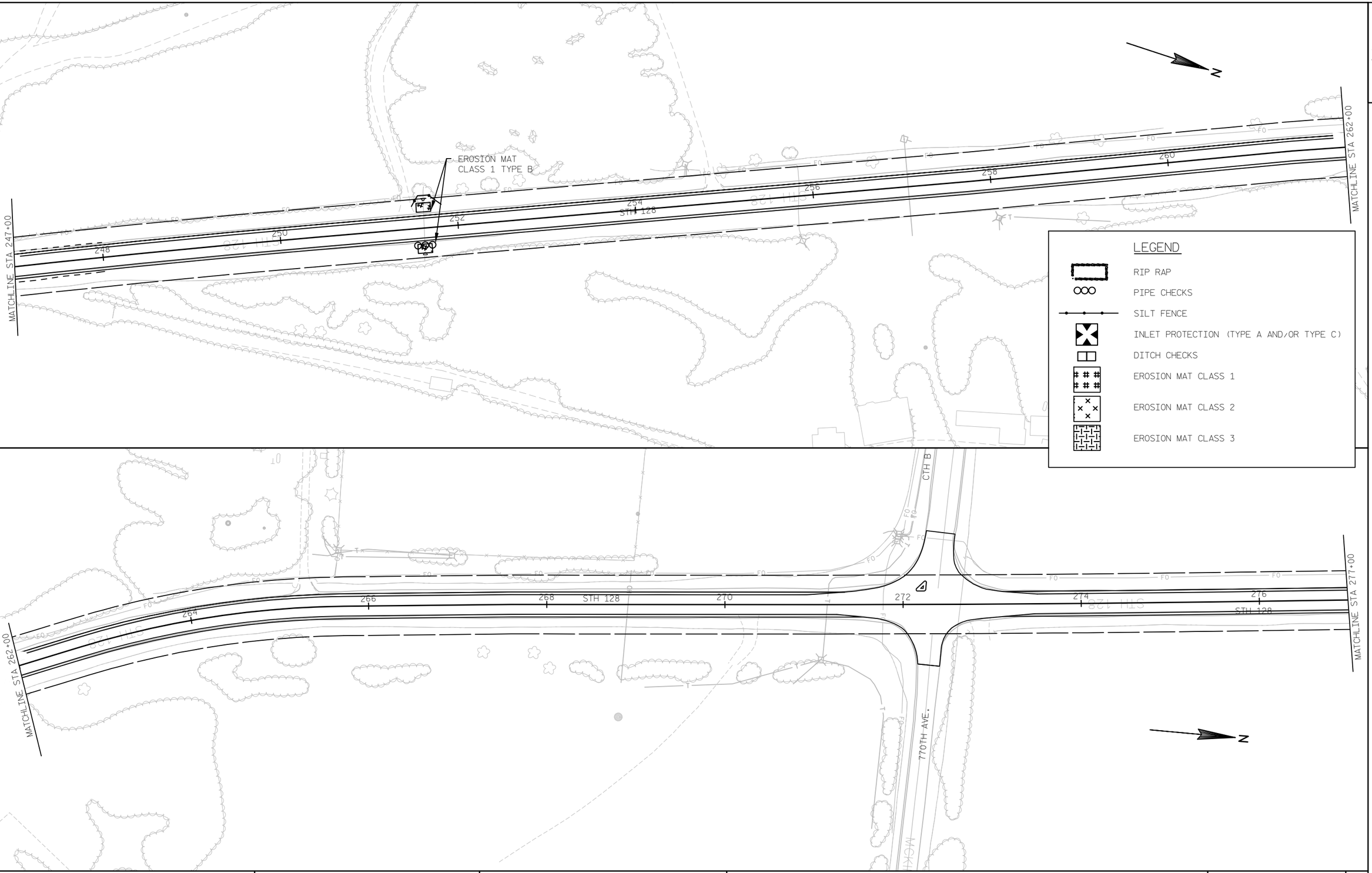
MATCHLINE STA 247+00

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 29	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\022001_EC_STH128_7105-05-01.DWG PLOT DATE : 7/27/2016 3:26 PM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44

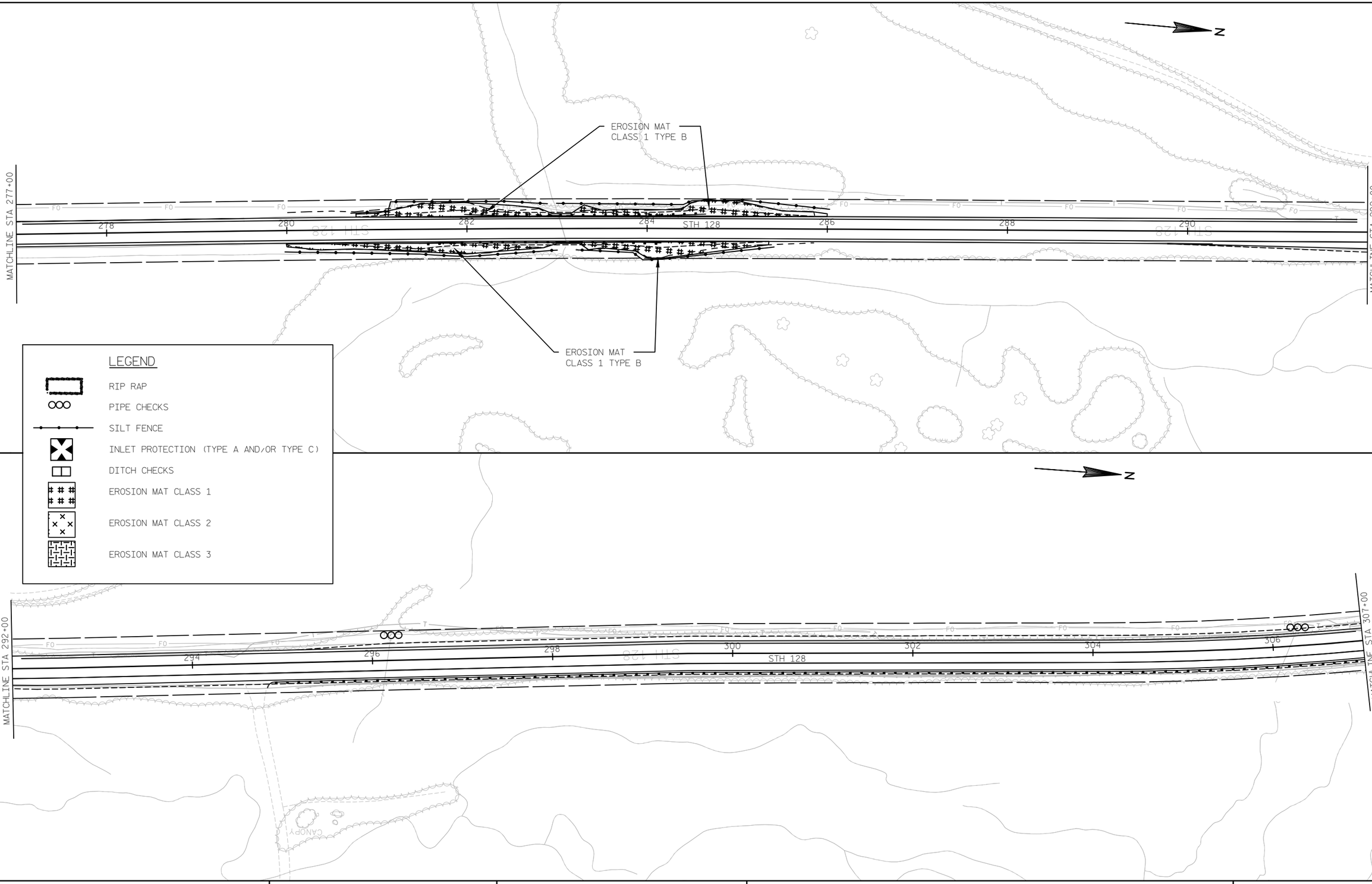
2



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 30	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\022001_EC_STH128_7105-05-01.DWG PLOT DATE : 7/27/2016 3:27 PM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1" = 100'_XREF

2



2

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 31	E

2

N

MATCHLINE STA 307+00

308 310 312 314 316 318 320

STH 128

EROSION MAT
CLASS 1 TYPE B

MATCHLINE STA 322+00

LEGEND

- RIP RAP
- PIPE CHECKS
- SILT FENCE
- INLET PROTECTION (TYPE A AND/OR TYPE C)
- DITCH CHECKS
- EROSION MAT CLASS 1
- EROSION MAT CLASS 2
- EROSION MAT CLASS 3

N

MATCHLINE STA 322+00

324 326 328 330 332 334 336

STH 128

MATCHLINE STA 337+00

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 32	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\022001_EC_STH128_7105-05-01.DWG PLOT DATE : 7/27/2016 3:27 PM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1" = 100'_XREF WISDOT/CADDS SHEET 44

2

EROSION MAT
CLASS 1 TYPE B

MATCHLINE STA 337+00

MATCHLINE STA 352+00

STH 128

338 340 342 344 346 348 350

LEGEND

- RIP RAP
- PIPE CHECKS
- SILT FENCE
- INLET PROTECTION (TYPE A AND/OR TYPE C)
- DITCH CHECKS
- EROSION MAT CLASS 1
- EROSION MAT CLASS 2
- EROSION MAT CLASS 3

SILT FENCE RELIEF

MATCHLINE STA 352+00

MATCHLINE STA 367+00

STH 128

354 356 358 360 362 364 366

SIGN

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 33	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\022001_EC_STH128_7105-05-01.DWG PLOT DATE : 7/27/2016 3:28 PM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1" = 100'_XREF WISDOT/CADDS SHEET 44

2

2

N

MATCHLINE STA 367+00

MATCHLINE STA 382+00

MATCHLINE STA 382+00

MATCHLINE STA 397+00

STH 128

850TH AVE.

EROSION MAT
CLASS 1 TYPE B

EROSION MAT
CLASS 1 TYPE B

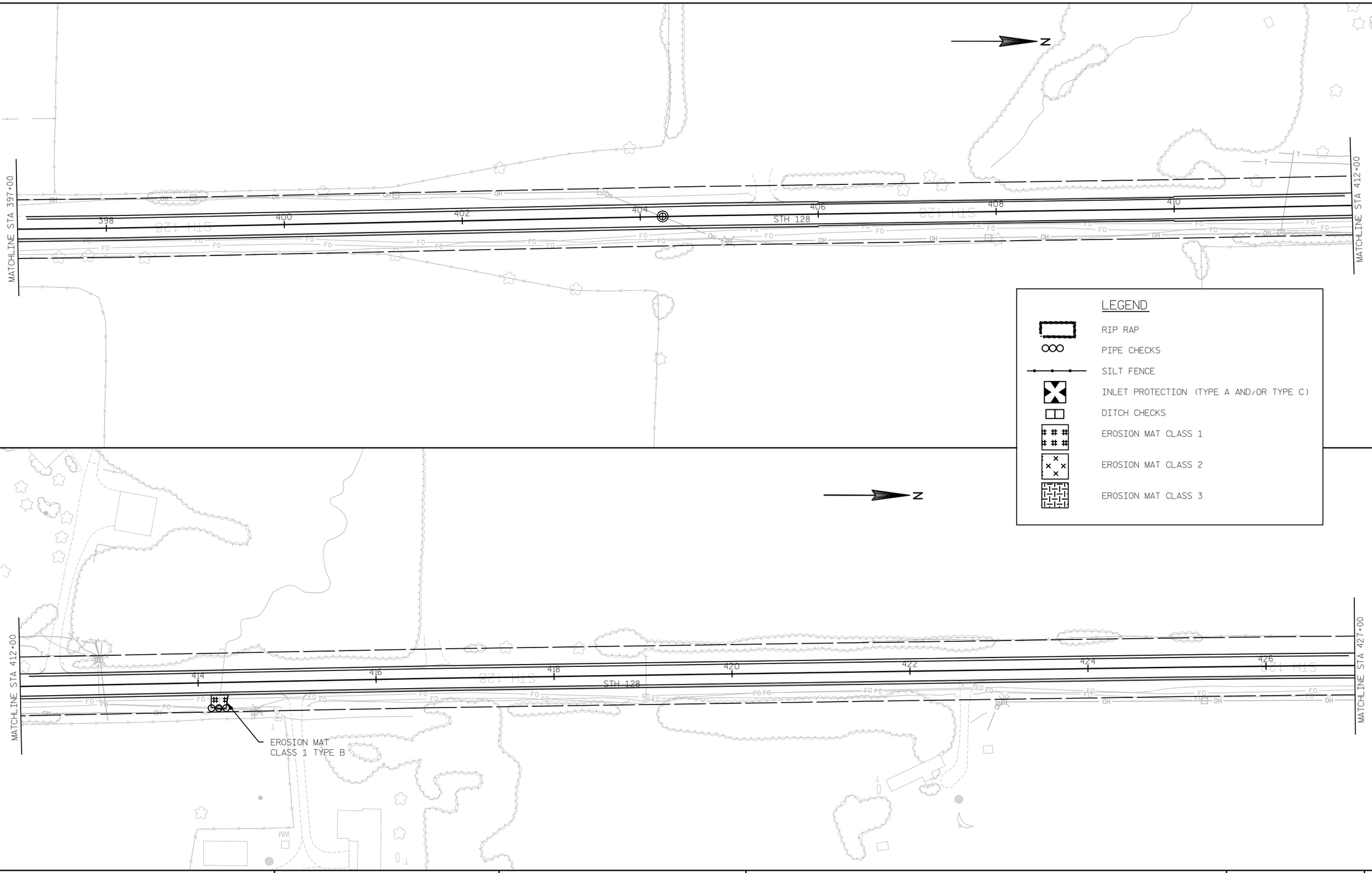
LEGEND

- RIP RAP
- PIPE CHECKS
- SILT FENCE
- INLET PROTECTION (TYPE A AND/OR TYPE C)
- DITCH CHECKS
- EROSION MAT CLASS 1
- EROSION MAT CLASS 2
- EROSION MAT CLASS 3

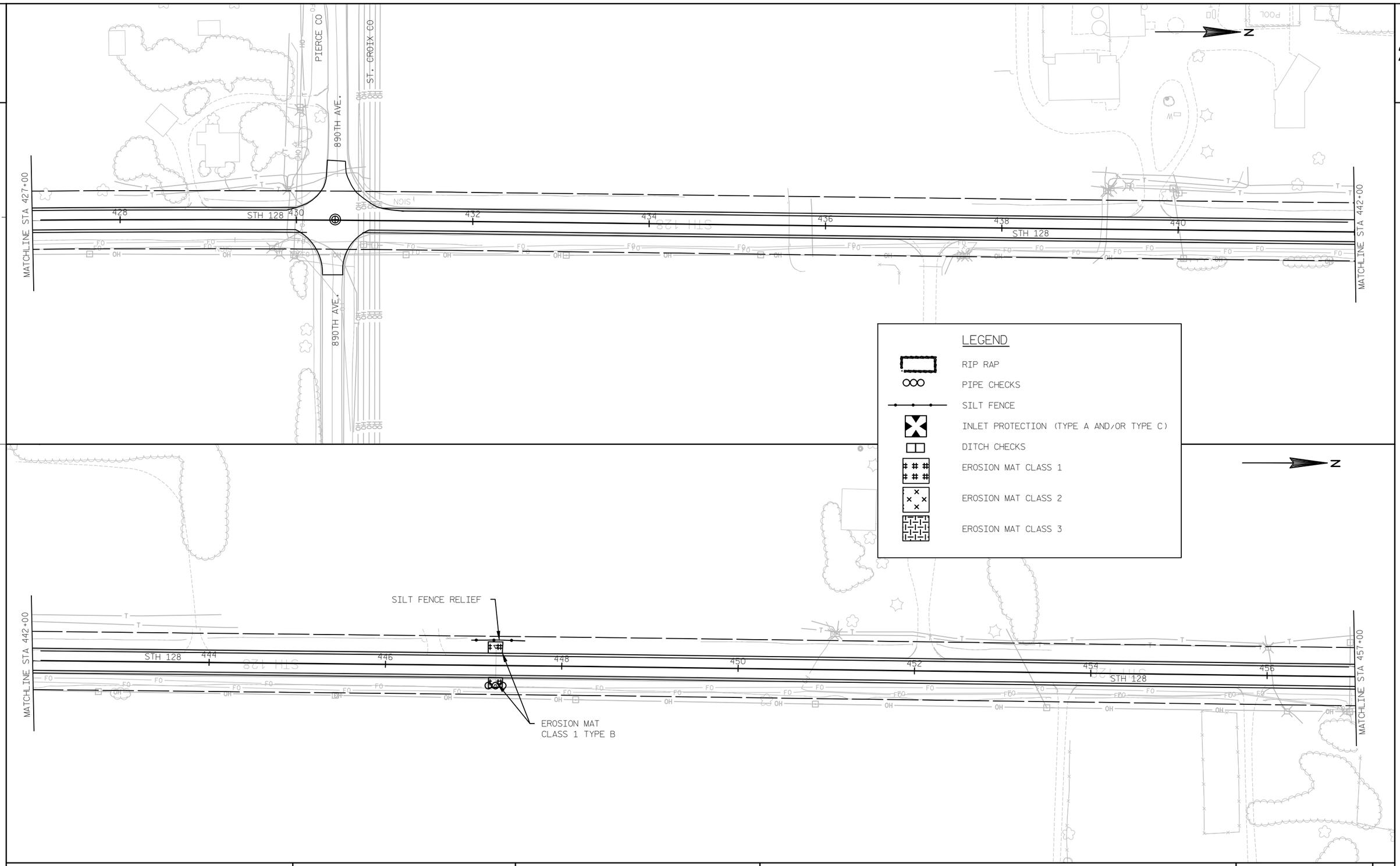
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 34	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\022001_EC_STH128_7105-05-01.DWG PLOT DATE : 7/27/2016 3:28 PM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1" = 100'_XREF WISDOT/CADDS SHEET 44

2

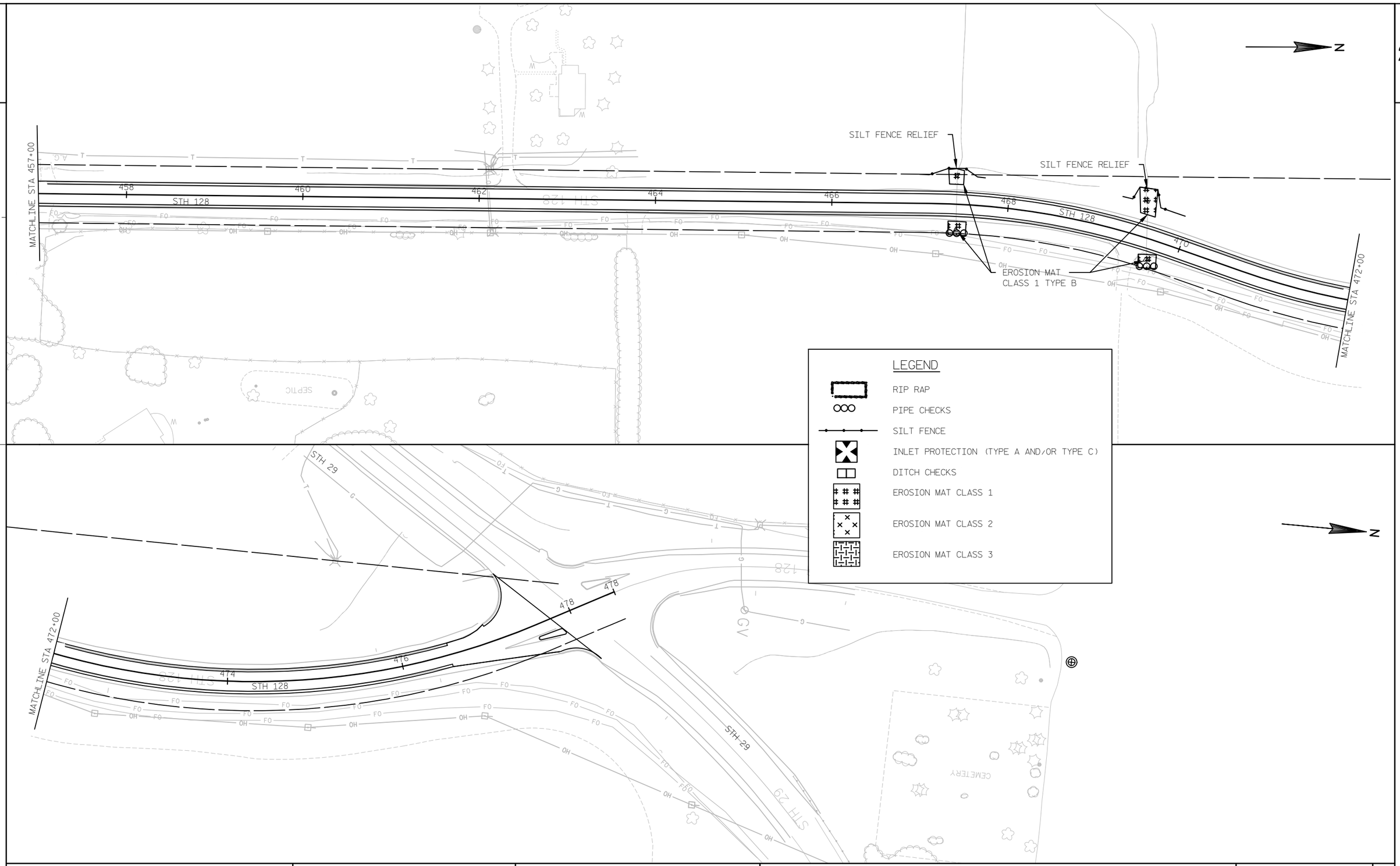


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 35	E



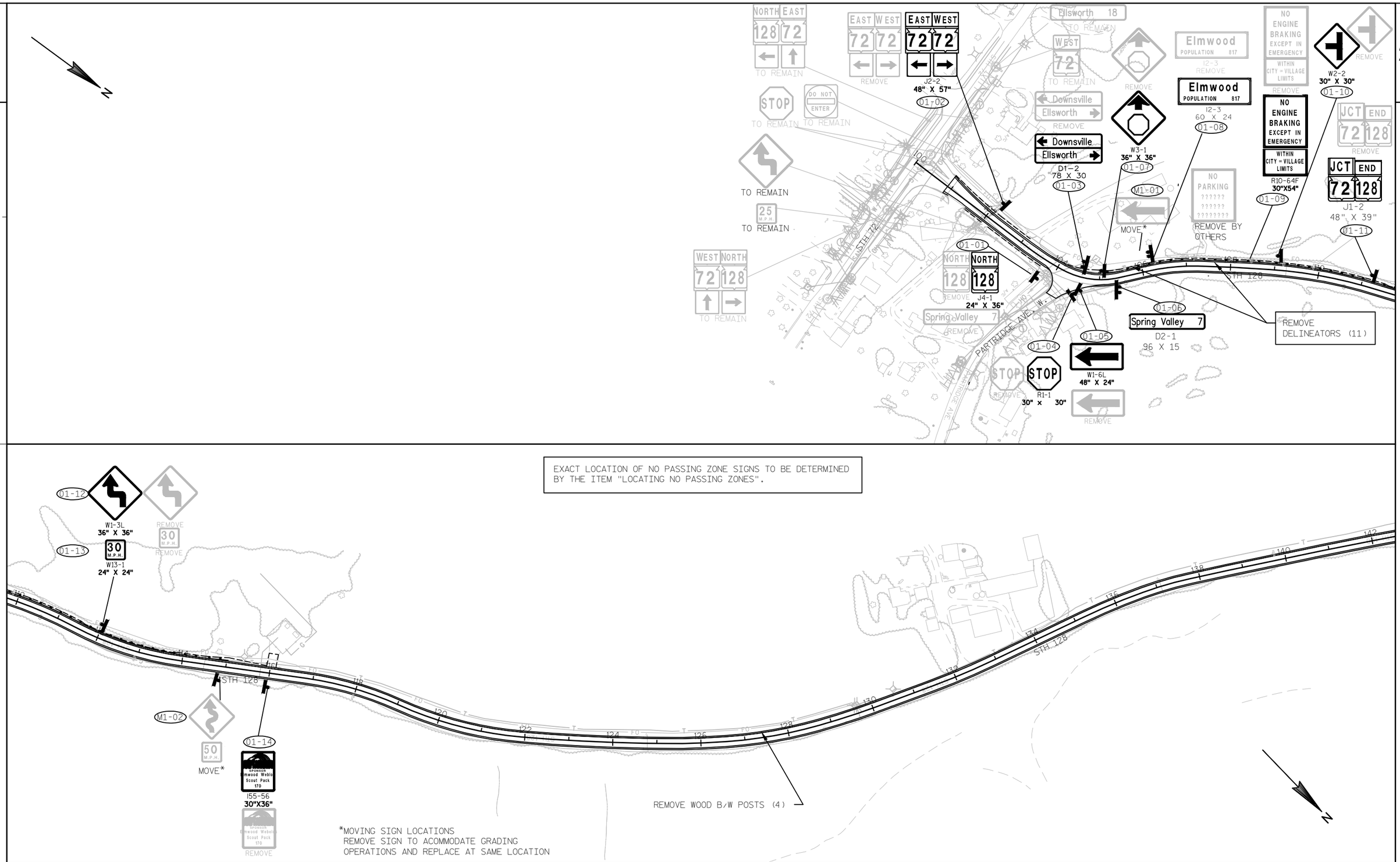
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 36	E

2



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	EROSION CONTROL:	SHEET 37	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\022001_EC_STH128_7105-05-01.DWG PLOT DATE : 7/27/2016 3:30 PM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1" = 100'_XREF WISDOT/CADDS SHEET 44



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PERMANENT SIGNING	SHEET 38	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\023201_PS_STH128_7105-05-70.DWG PLOT DATE : 9/7/2016 8:04 AM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44

2

02-01 W1-5L 30" X 30"
02-02 W13-1 45 M.P.H. 18" X 18"
REMOVE 45 M.P.H.
REMOVE WOOD B/W POSTS (4)
REMOVE DELINEATORS (3)
REMOVE WOOD B/W POSTS (2)
02-03 02-04 02-05 W1-8 18" X 24"
02-06 02-07 02-08 W1-8 18" X 24"
02-09 W1-6 48" X 24"
02-10 W1-6L 48" X 24"
REMOVE DELINEATORS (6-7)
REMOVE WOOD B/W POST
M2-01 35 M.P.H. MOVE*
02-11 02-12 02-13 W1-8 18" X 24"
02-14 02-15 02-16 W1-8 18" X 24"
02-17 W1-6 48" X 24"
02-18 W1-6L 48" X 24"
REMOVE
02-19 02-20 W1-8 18" X 24"
02-21 02-22 W1-8 18" X 24"
02-23 W1-6L 48" X 24"
02-24 W1-6 48" X 24"
02-25 02-26 02-27 02-28 W1-8 18" X 24"
02-29 02-30 W1-8 18" X 24"
STH 128

*MOVING SIGN LOCATIONS
REMOVE SIGN TO ACOMMODATE GRADING
OPERATIONS AND REPLACE AT SAME LOCATION

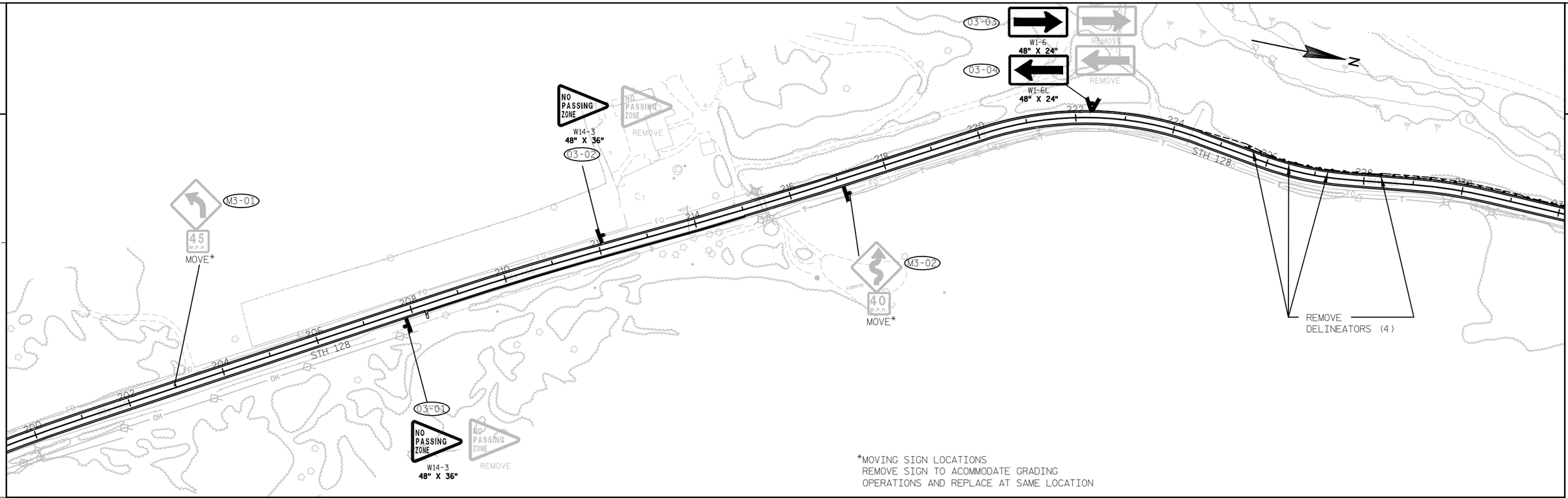
EXACT LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED BY THE ITEM "LOCATING NO PASSING ZONES".

02-33 W1-6 48" X 24"
02-34 W1-6L 48" X 24"
M2-02 MOVE*
M2-03 45 M.P.H. MOVE*
02-31 W1-3R 36"x36"
02-32 30 M.P.H. W13-1 24" X 24"
STH 128

N

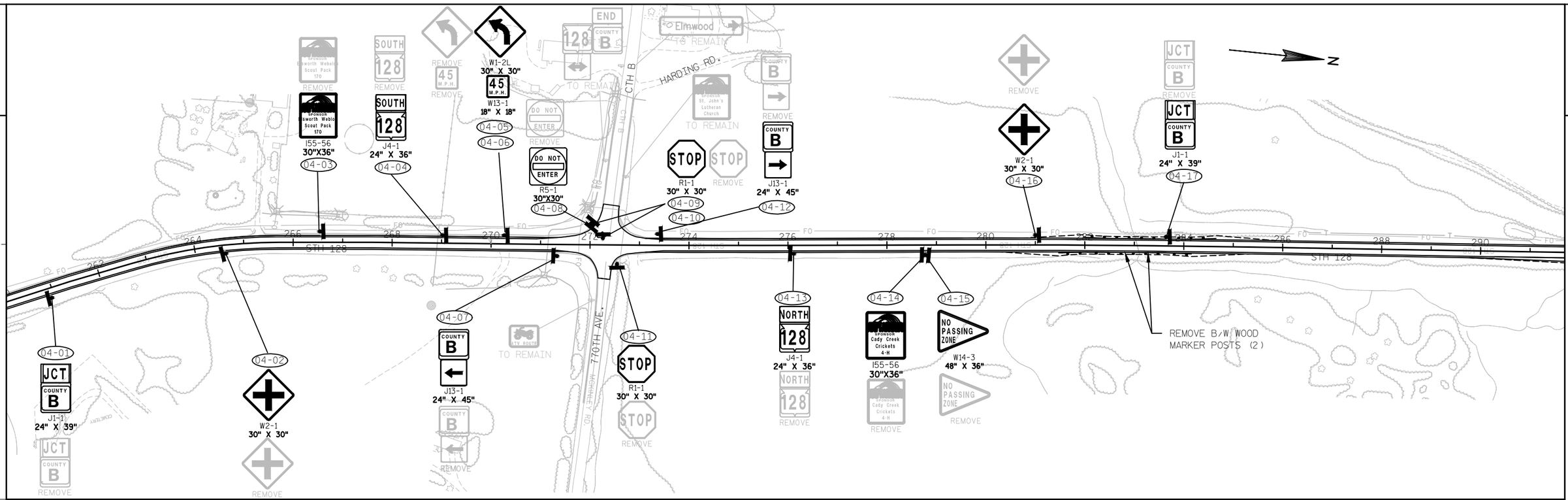
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PERMANENT SIGNING	SHEET 39	E

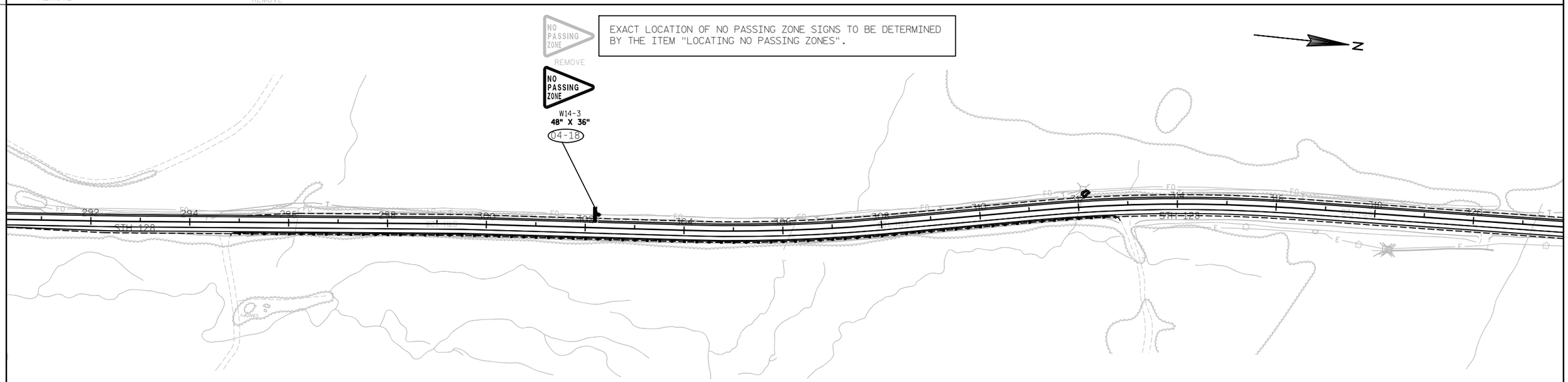
2



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PERMANENT SIGNING	SHEET 40	E

2

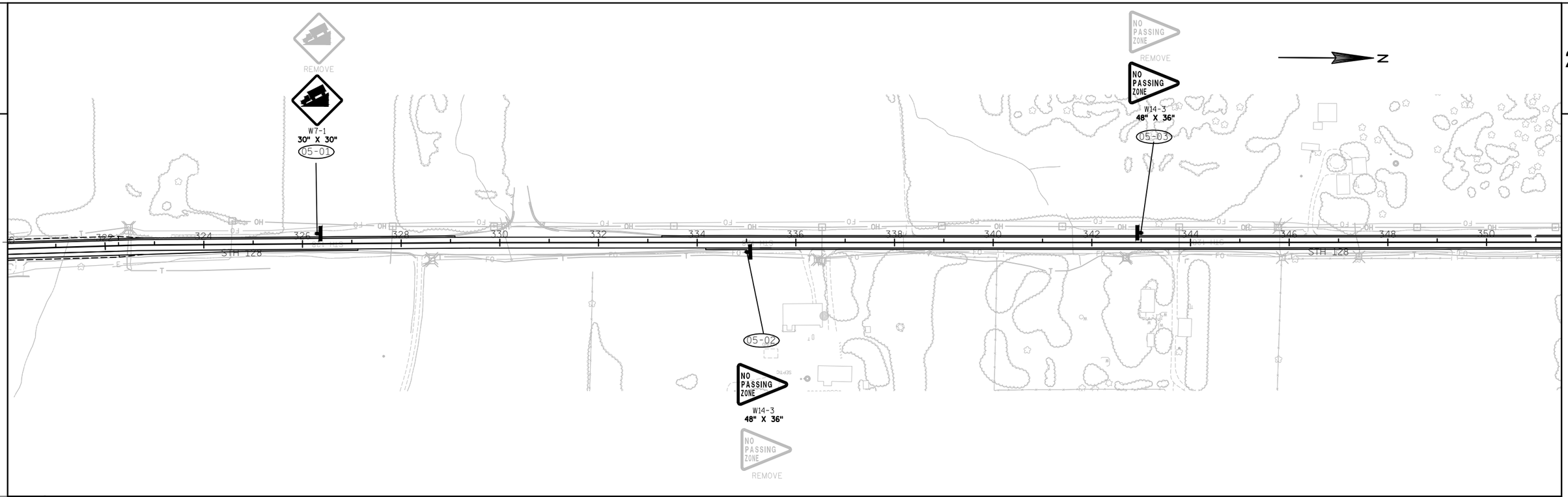


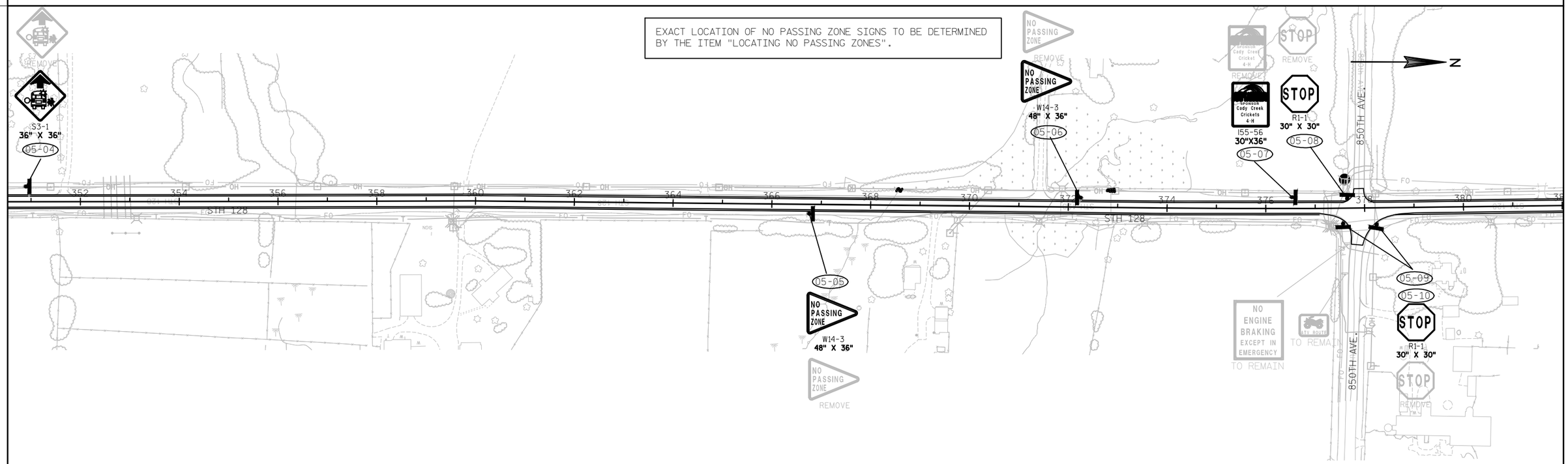


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PERMANENT SIGNING	SHEET 41	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\023201_PS_STH128_7105-05-70.DWG PLOT DATE : 6/30/2016 9:16 AM PLOT BY : QUEST CIVIL ENG PLOT NAME : _____ PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44

2





PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PERMANENT SIGNING	SHEET 42	E

2

N

REMOVE

W2-1
30" X 30"

06-01

NO PASSING ZONE

REMOVE

NO PASSING ZONE

W14-3
48" X 36"

06-03

06-02

NO PASSING ZONE

W14-3
48" X 36"

NO PASSING ZONE

REMOVE

06-04

S3-1
36"X36"

REMOVE

STH 128

EXACT LOCATION OF NO PASSING ZONE SIGNS TO BE DETERMINED BY THE ITEM "LOCATING NO PASSING ZONES".

N

NO PASSING ZONE

REMOVE

NO PASSING ZONE

W14-3
48" X 36"

06-06

STOP

REMOVE

STOP

R1-1
30" X 30"

06-08

890TH AVE.

Pierce Co

REMOVE

Pierce Co

I2-2
54" X 15"

06-10

06-05

NO PASSING ZONE

W14-3
48" X 36"

NO PASSING ZONE

REMOVE

06-07

St Croix Co

I2-2
66" X 15"

St Croix Co

REMOVE

06-09

STOP

R1-1
30" X 30"

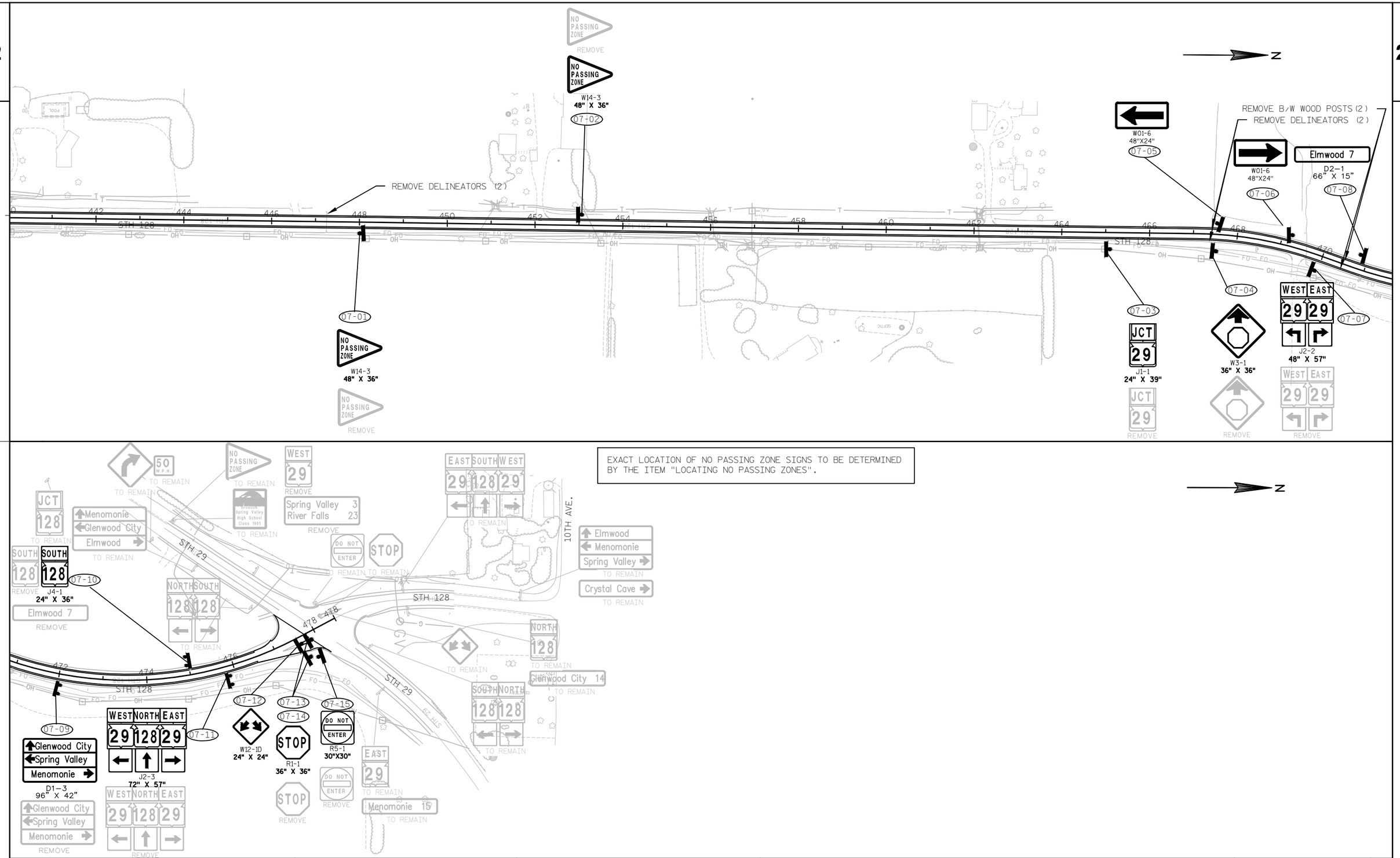
STOP

REMOVE

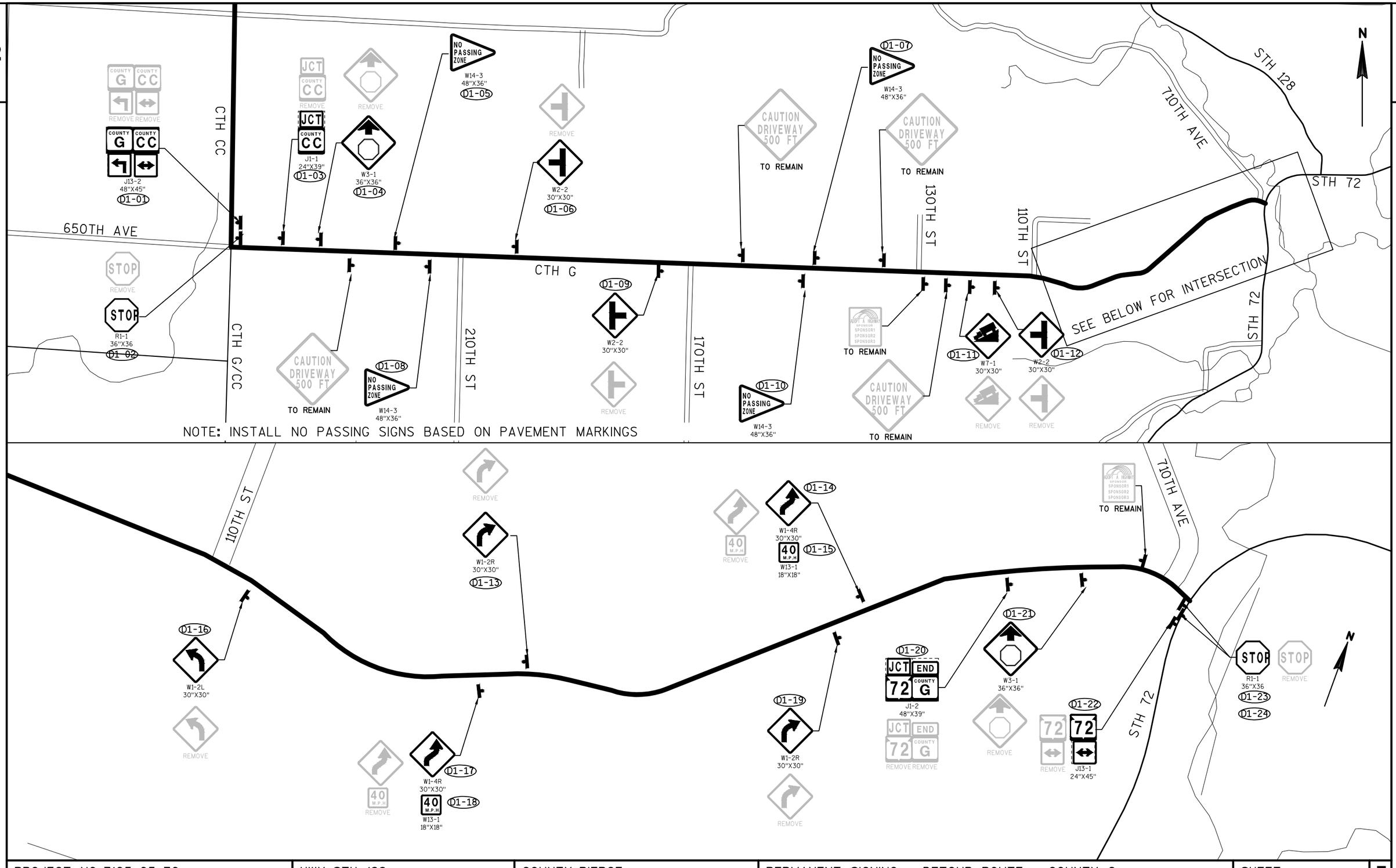
890TH AVE.

STH 128

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PERMANENT SIGNING	SHEET 43	E



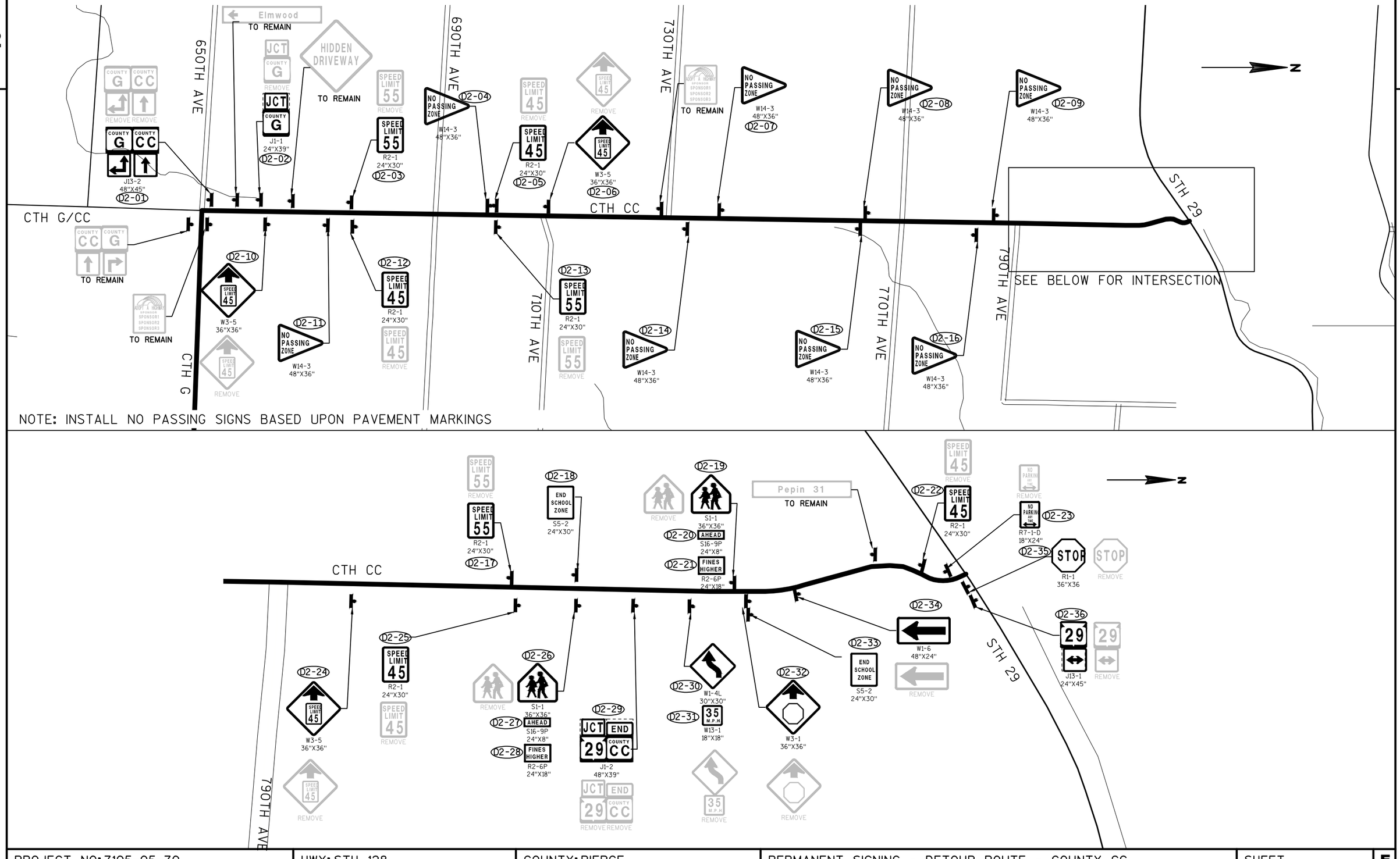
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PERMANENT SIGNING	SHEET 44	E



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PERMANENT SIGNING - DETOUR ROUTE - COUNTY G	SHEET 45	E

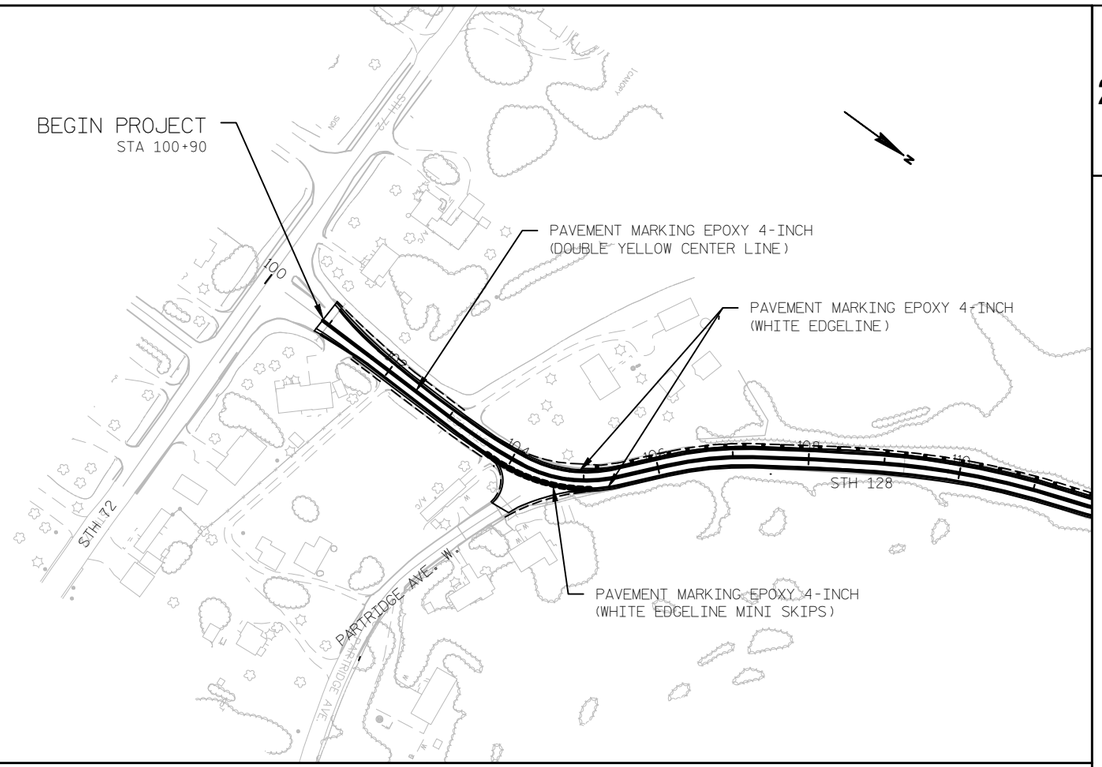
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\023202_PS_STH128_DETOURRTE.DWG
LAYOUT NAME - ****
PLOT DATE : 6/30/2016 9:11 AM
PLOT BY : ADAM OSYPOWSKI
PLOT NAME :
PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

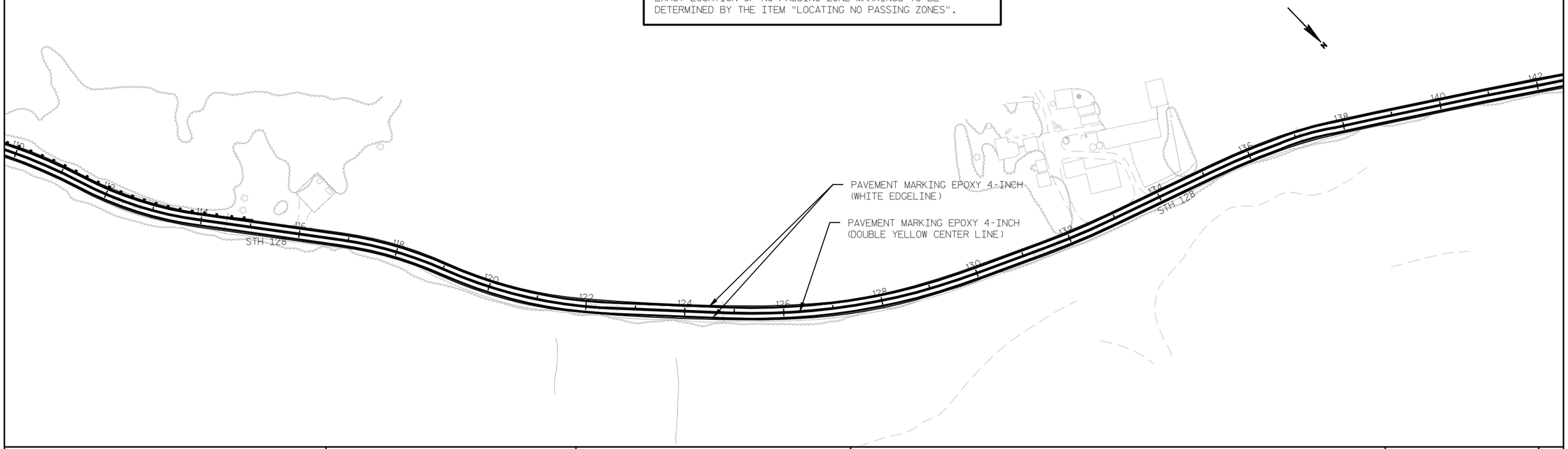


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PERMANENT SIGNING - DETOUR ROUTE - COUNTY CC	SHEET 46 E

2

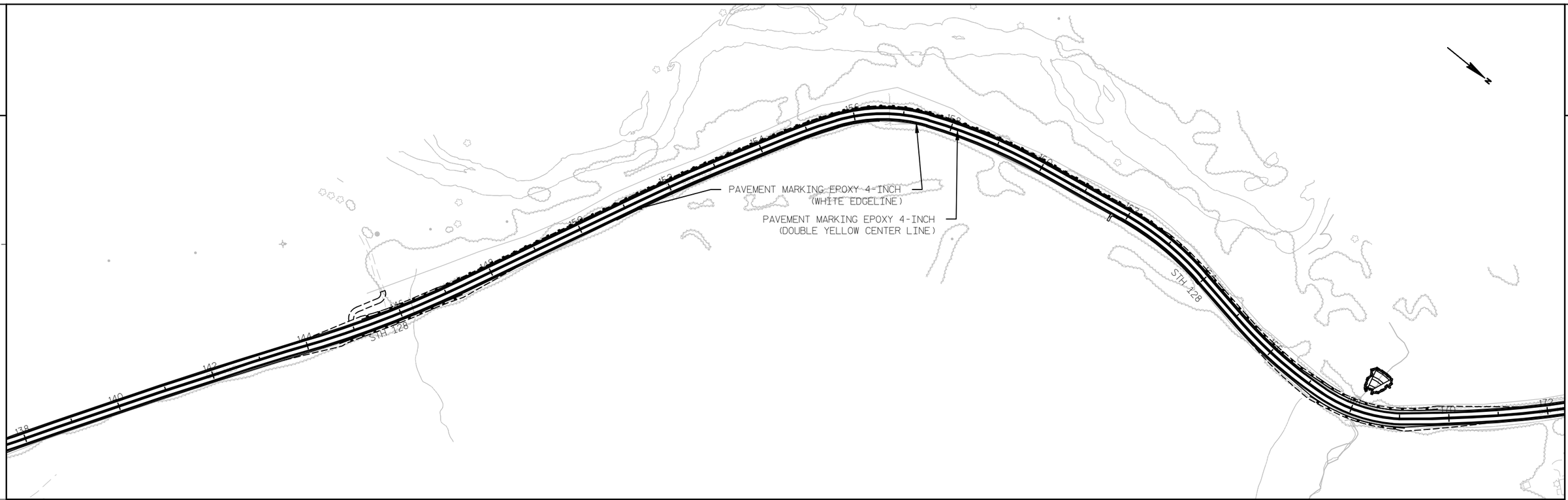


EXACT LOCATION OF NO PASSING ZONE MARKINGS TO BE DETERMINED BY THE ITEM "LOCATING NO PASSING ZONES".

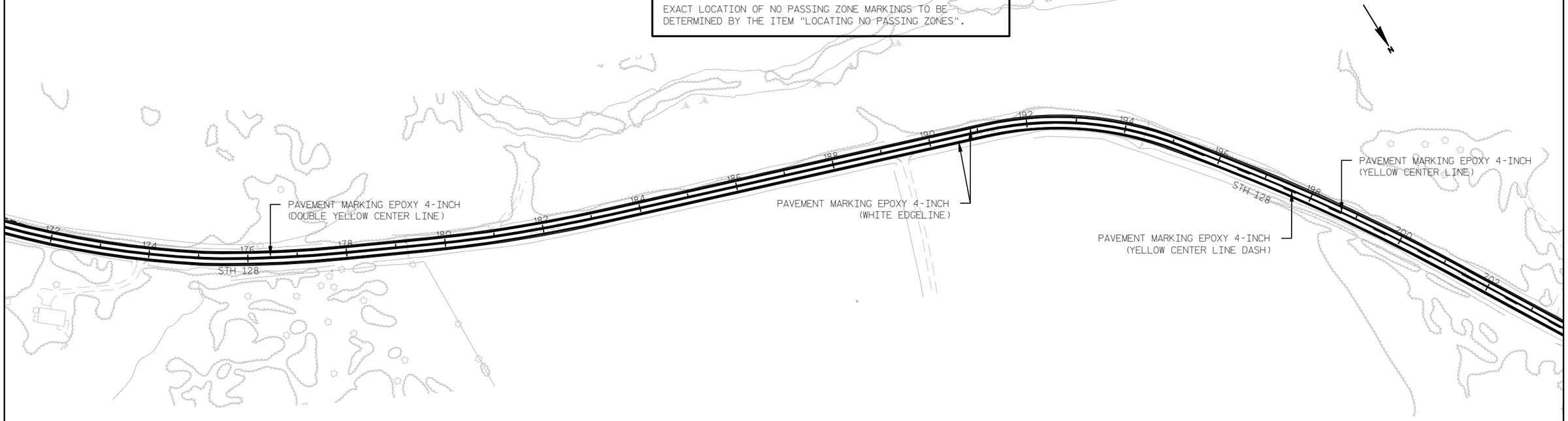


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PAVEMENT MARKING	SHEET 47	E

2



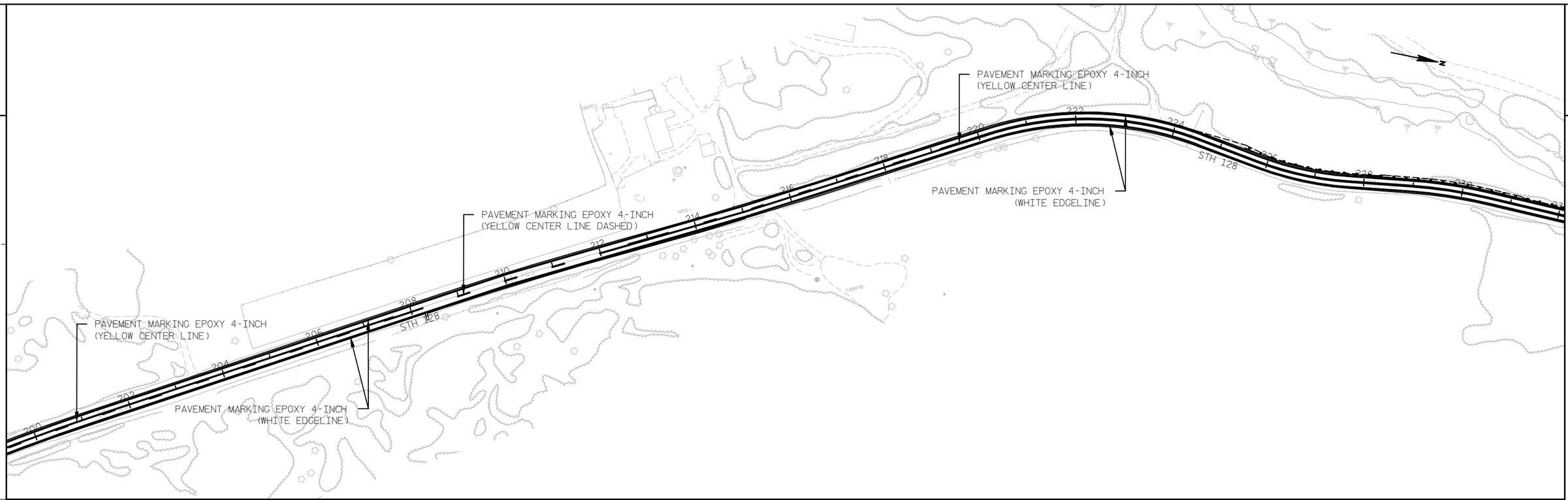
EXACT LOCATION OF NO PASSING ZONE MARKINGS TO BE DETERMINED BY THE ITEM "LOCATING NO PASSING ZONES".



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PAVEMENT MARKING	SHEET 48	E

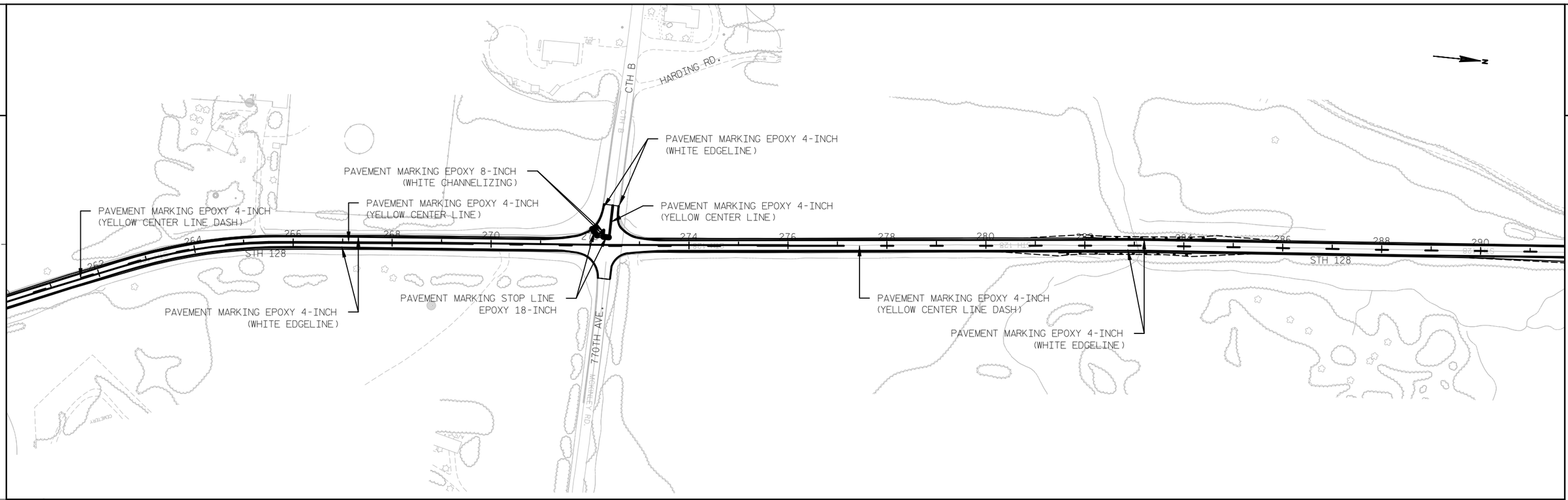
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\024501_PM_STH128_7105-05-70.DWG PLOT DATE : 6/30/2016 9:56 AM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44

2

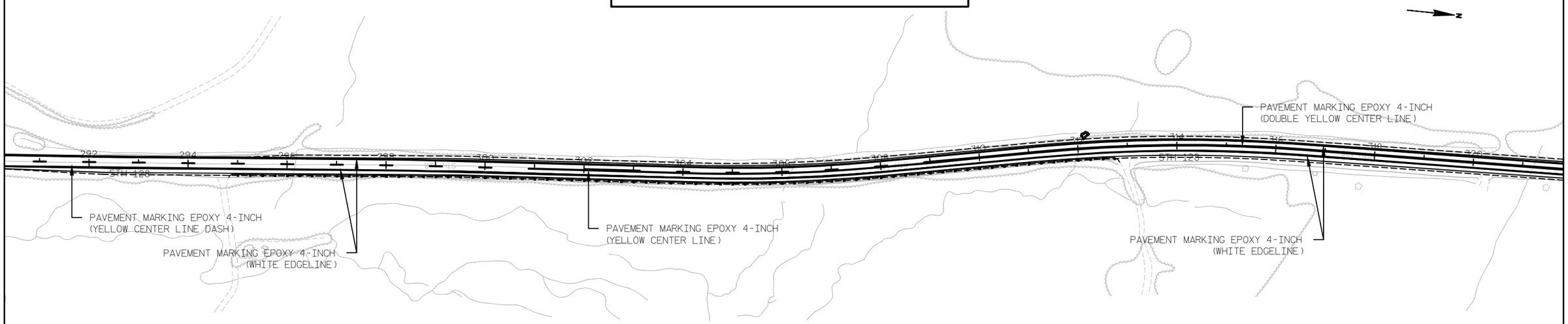


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PAVEMENT MARKING	SHEET 49	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\024501_PM_STH128_7105-05-70.DWG PLOT DATE : 6/30/2016 9:56 AM PLOT BY : QUEST CIVIL ENG PLOT NAME : _____ PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44

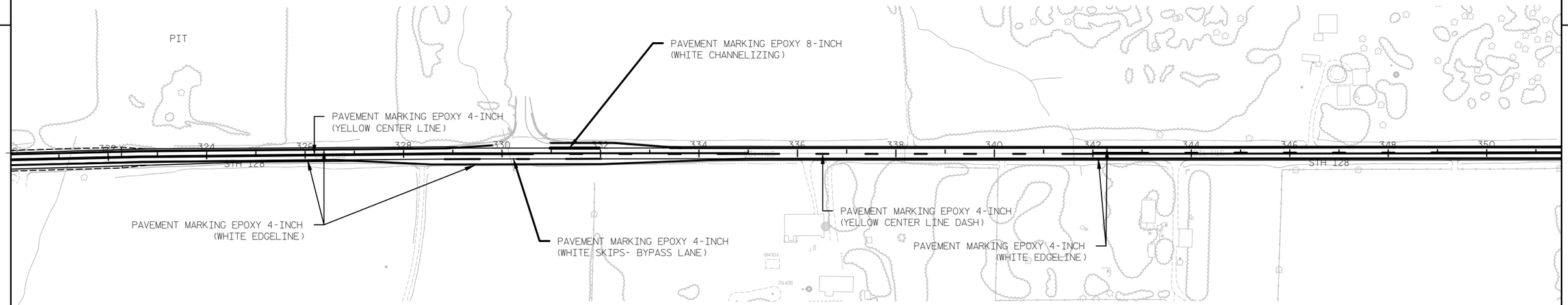


EXACT LOCATION OF NO PASSING ZONE MARKINGS TO BE
DETERMINED BY THE ITEM "LOCATING NO PASSING ZONES".

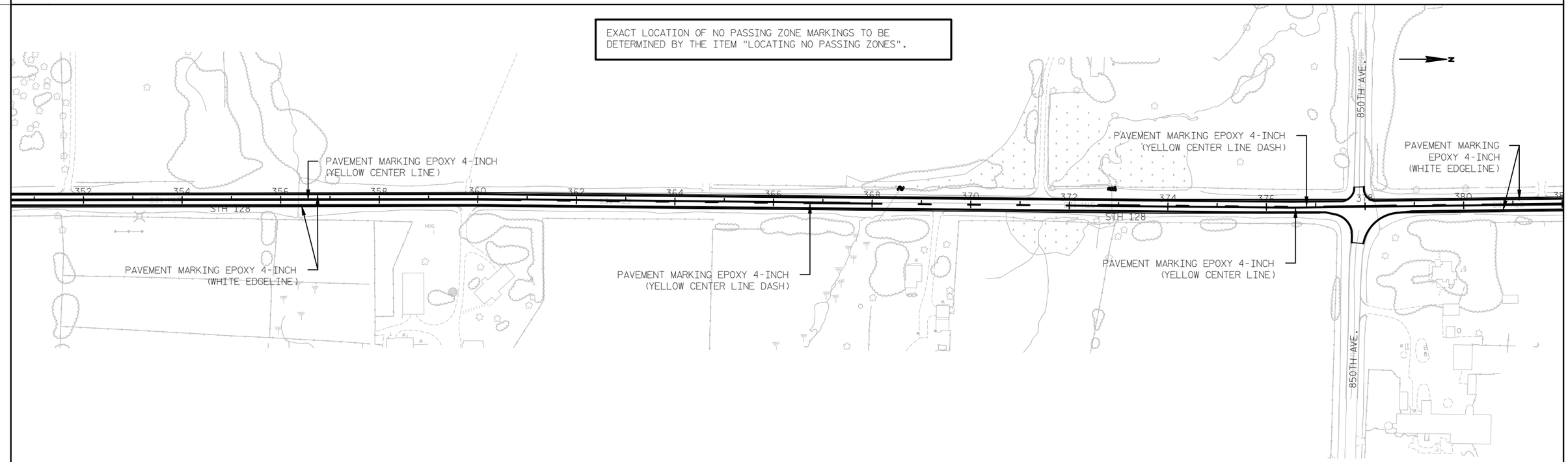


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PAVEMENT MARKING	SHEET 50	E

2

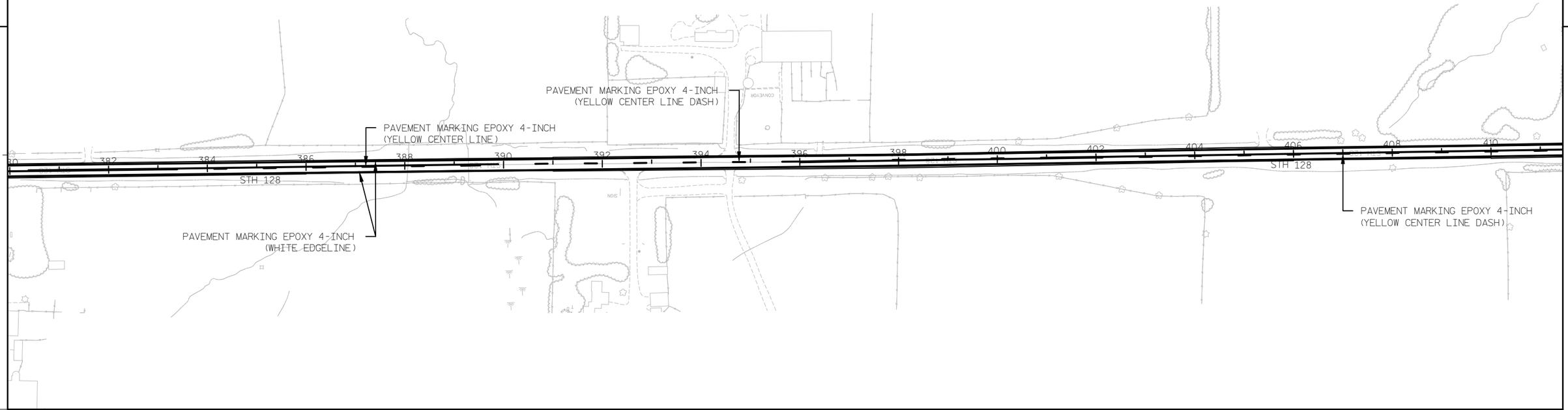


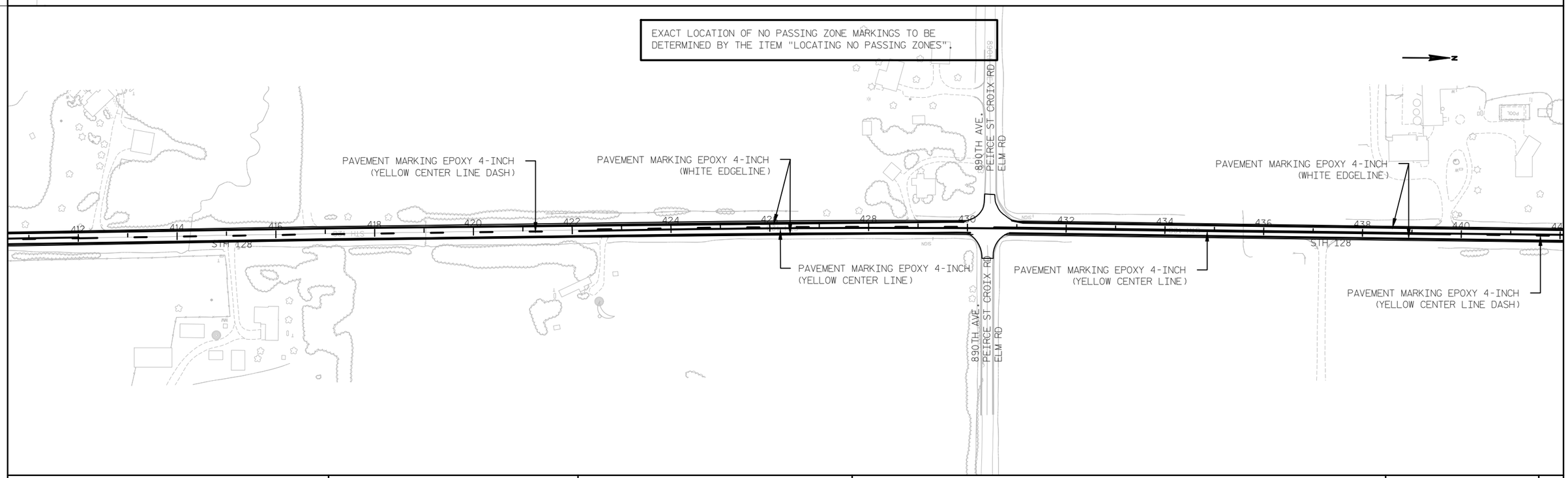
EXACT LOCATION OF NO PASSING ZONE MARKINGS TO BE DETERMINED BY THE ITEM "LOCATING NO PASSING ZONES".



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PAVEMENT MARKING	SHEET 51	E

2

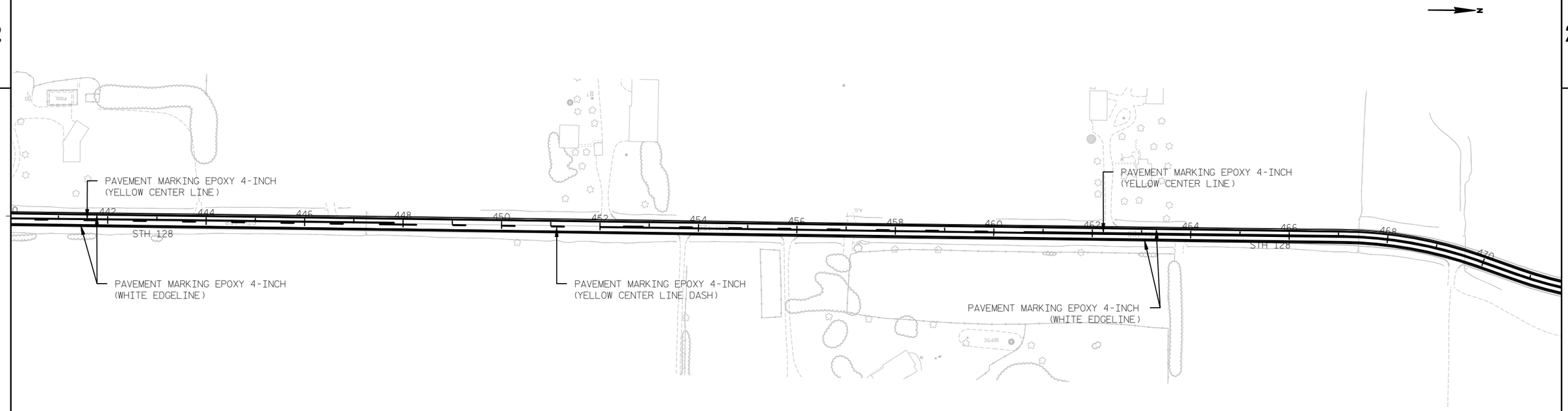




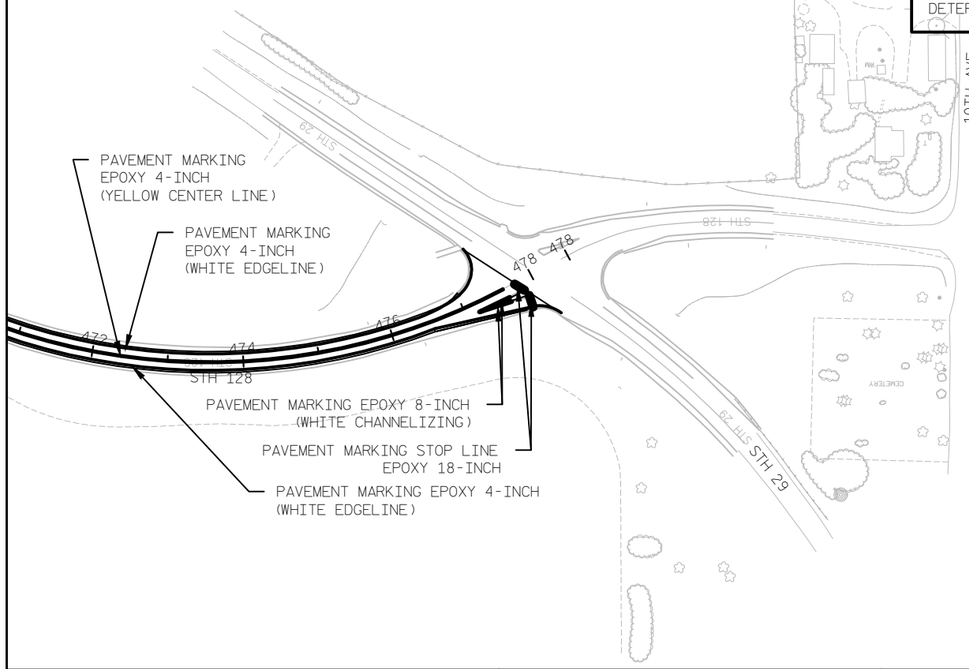
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PAVEMENT MARKING	SHEET 52	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\024501_PM_STH128_7105-05-70.DWG PLOT DATE : 6/30/2016 9:58 AM PLOT BY : QUEST CIVIL ENG PLOT NAME : _____ PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44

2



EXACT LOCATION OF NO PASSING ZONE MARKINGS TO BE DETERMINED BY THE ITEM "LOCATING NO PASSING ZONES".



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PAVEMENT MARKING	SHEET 53	E

2

2

N

CTH CC

650TH AVE

INSTALL PAVEMENT MARKING PAINT 4-INCH (WHITE EDGELINE)
ON BOTH SIDES OF CTH G

INSTALL PAVEMENT MARKING PAINT 4-INCH (YELLOW) ON
EXISTING CENTERLINE MARKING LOCATIONS OF CTH G

INSTALL PAVEMENT MARKING STOP LINE PAINT 18-INCH
FOR WESTBOUND CTH G

130TH ST

110TH ST

710TH AVE

STH 128

STH 72

CTH G

INSTALL PAVEMENT MARKING STOP LINE PAINT 18-INCH
FOR EB CTH G ON EITHER SIDE OF ISLAND

CTH G/CC

210TH ST

170TH ST

STH 72

EXACT LOCATION OF NO PASSING ZONE MARKINGS TO BE DETERMINED BY THE ITEM "LOCATING NO PASSING ZONES".

650TH AVE

690TH AVE

730TH AVE

Z

INSTALL PAVEMENT MARKING PAINT 4-INCH (WHITE EDGELINE)
ON BOTH SIDES OF CTH CC

INSTALL PAVEMENT MARKING PAINT 4-INCH (YELLOW) ON
EXISTING CENTERLINE MARKING LOCATIONS OF CTH CC

STH 29

CTH CC

CTH G/CC

790TH AVE

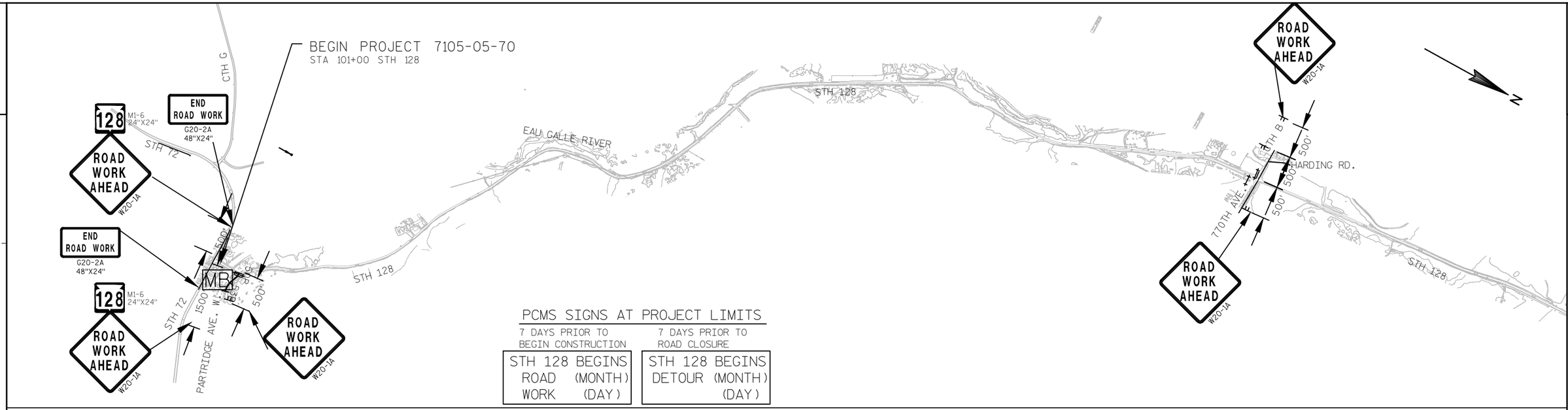
710TH AVE

770TH AVE

INSTALL PAVEMENT MARKING
STOP LINE PAINT 18-INCH
FOR NORTHBOUND CTH CC

CTH G

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PAVEMENT MARKING - DETOUR ROUTE	SHEET 54	E



PCMS SIGNS AT PROJECT LIMITS

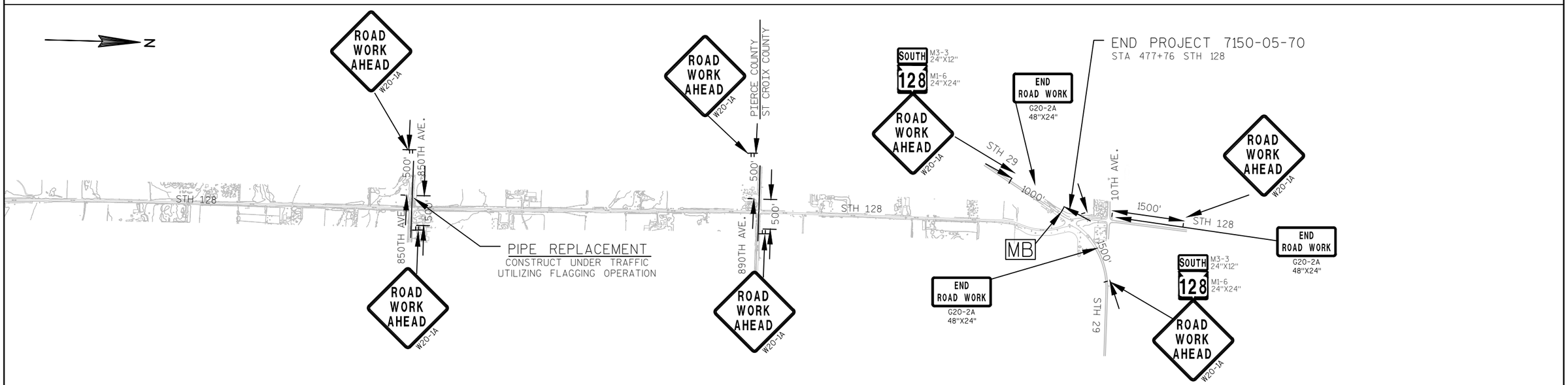
7 DAYS PRIOR TO BEGIN CONSTRUCTION	7 DAYS PRIOR TO ROAD CLOSURE
STH 128 BEGINS ROAD WORK (MONTH) (DAY)	STH 128 BEGINS DETOUR (MONTH) (DAY)

TRAFFIC CONTROL NOTES

- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS OR AS DETERMINED BY THE ENGINEER.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- SIGNS DESIGNATED AS "WO" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
- ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- ANY SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER.
- THE FOLLOWING SIGNS SHALL BE USED AS NEEDED THROUGHOUT THE WORK ZONE. THESE SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE ITEMS 643.0100 "TRAFFIC CONTROL (PROJECT 7105-05-70)"

W8-1	36"x36"	"BUMP"
W8-7	36"X36"	"LOOSE GRAVEL"
W8-9	36"X36"	"LOW SHOULDER"
W8-11	36"x36"	"UNEVEN LANES"

- ALL SIDE STREETS SHALL BE OPEN TO TRAFFIC AT ALL TIMES DURING CONSTRUCTION.
- ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.
- REFER TO STANDARD DETAIL DRAWING "TRAFFIC CONTROL ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC", AND "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVABLE OPERATIONS)"
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC/STAGING REQUIREMENTS.



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	TRAFFIC CONTROL: OVERVIEW	SHEET 55	E

SEE DETAIL 1

CTH G

STH 72

BOX CULVERT TO BE REPLACED
(BRIDGE OUT)
SEE SDD 15-C-2 FOR SIGNING

STH 128

EAU GALLE RIVER

BRIDGE OUT
1 MILES AHEAD
TYPE III BARRICADE
R11-3C
60" X 24"

PIPE REPLACEMENTS
SEE SDD 15-C-2 FOR SIGNING

ROAD CLOSED
TO
THRU TRAFFIC
TYPE III BARRICADE
R11-4
60"X30"

ROAD
CLOSED
AHEAD
W20-3A

PARTRIDGE AVE.

500'

ROAD CLOSED
TO
THRU TRAFFIC
TYPE III BARRICADE
R11-4
60"X30"

BRIDGE OUT
2 MILES AHEAD
TYPE III BARRICADE
R11-3C
60" X 24"

SOUTH
128
M3-3
M1-6
24"X24"

ROAD
CLOSED
AHEAD
W20-3A

ROAD
WORK
AHEAD
W20-1A

770TH AVE.

500'

HARDING RD.

ROAD
WORK
AHEAD
W20-1A

STH 128

N

BRIDGE OUT
4 MILES AHEAD
TYPE III BARRICADE
R11-3C
60" X 24"

ROAD
WORK
AHEAD
W20-1A

850TH AVE.

500'

ROAD
WORK
AHEAD
W20-1A

BRIDGE OUT
5 MILES AHEAD
TYPE III BARRICADE
R11-3C
60" X 24"

ROAD
WORK
AHEAD
W20-1A

PIERCE COUNTY
ST CROIX COUNTY

890TH AVE.

500'

ROAD
WORK
AHEAD
W20-1A

STH 128

SEE DETAIL 2

STH 29

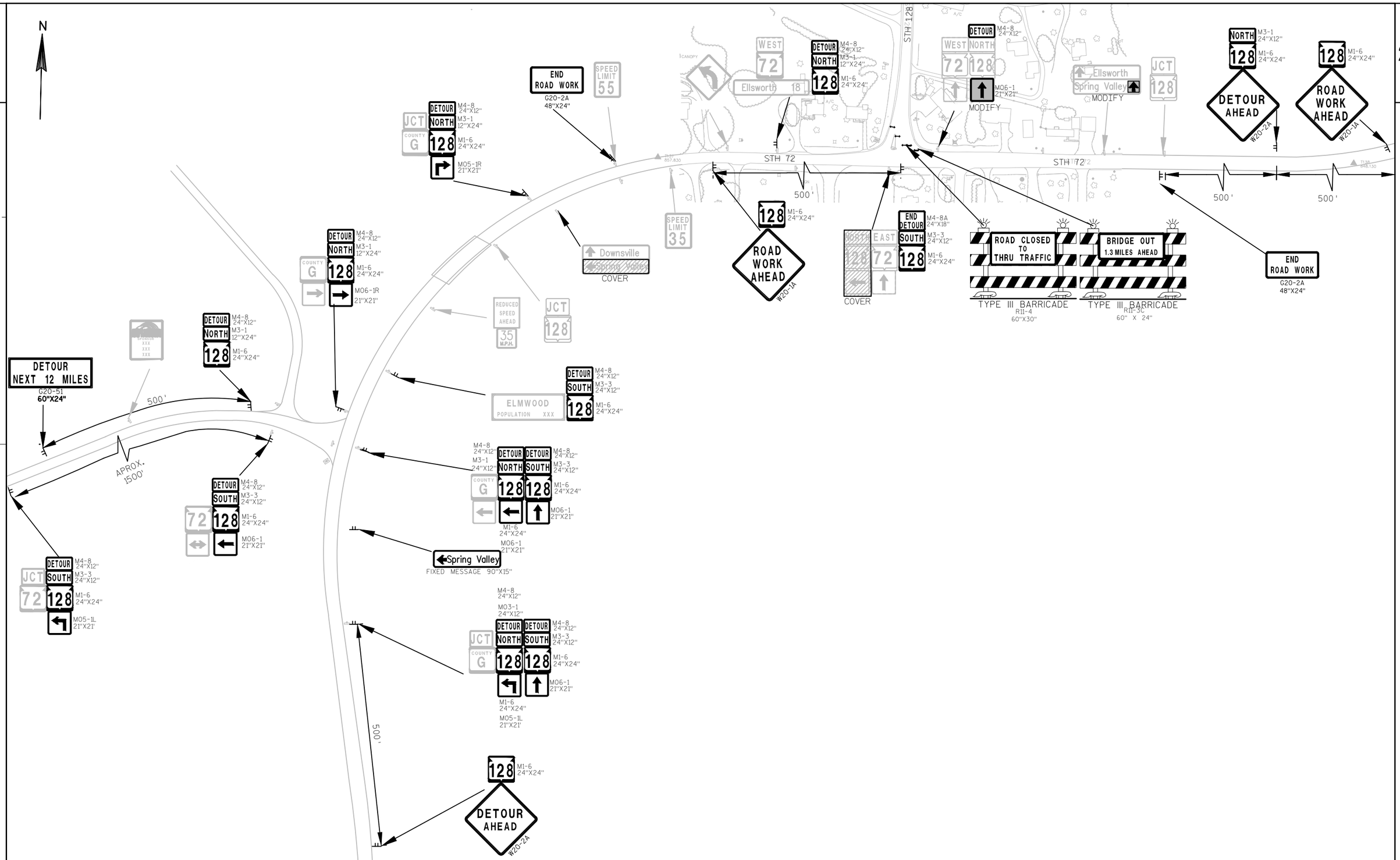
10TH AVE.

STH 29

STH 128

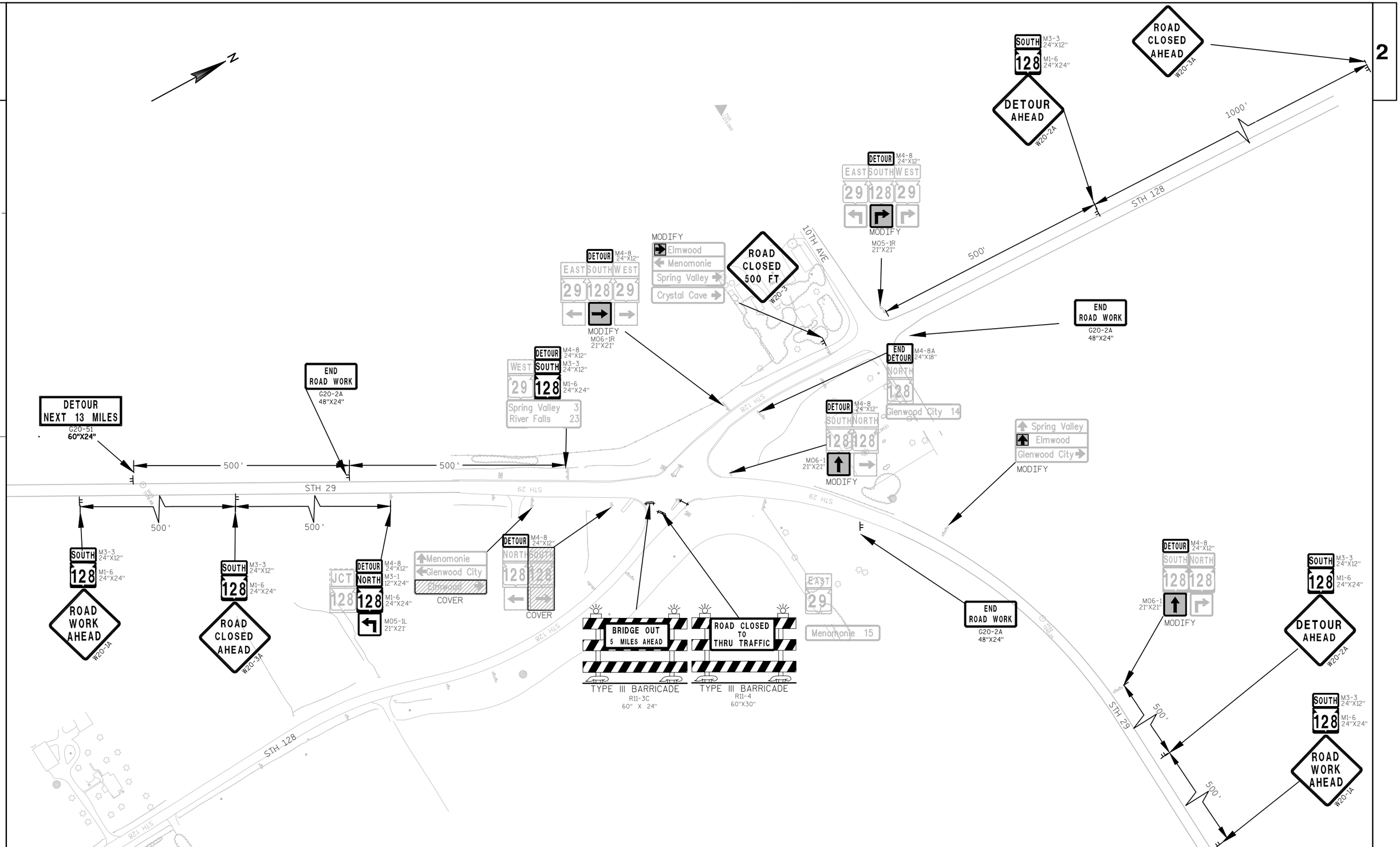
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	TRAFFIC CONTROL: STH 128 CLOSED	SHEET 56	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\026002_TC_STH128__CLOSED.DWG PLOT DATE : 6/30/2016 10:18 AM PLOT BY : QUEST CIVIL ENG PLOT NAME : _____ PLOT SCALE : 1":1500



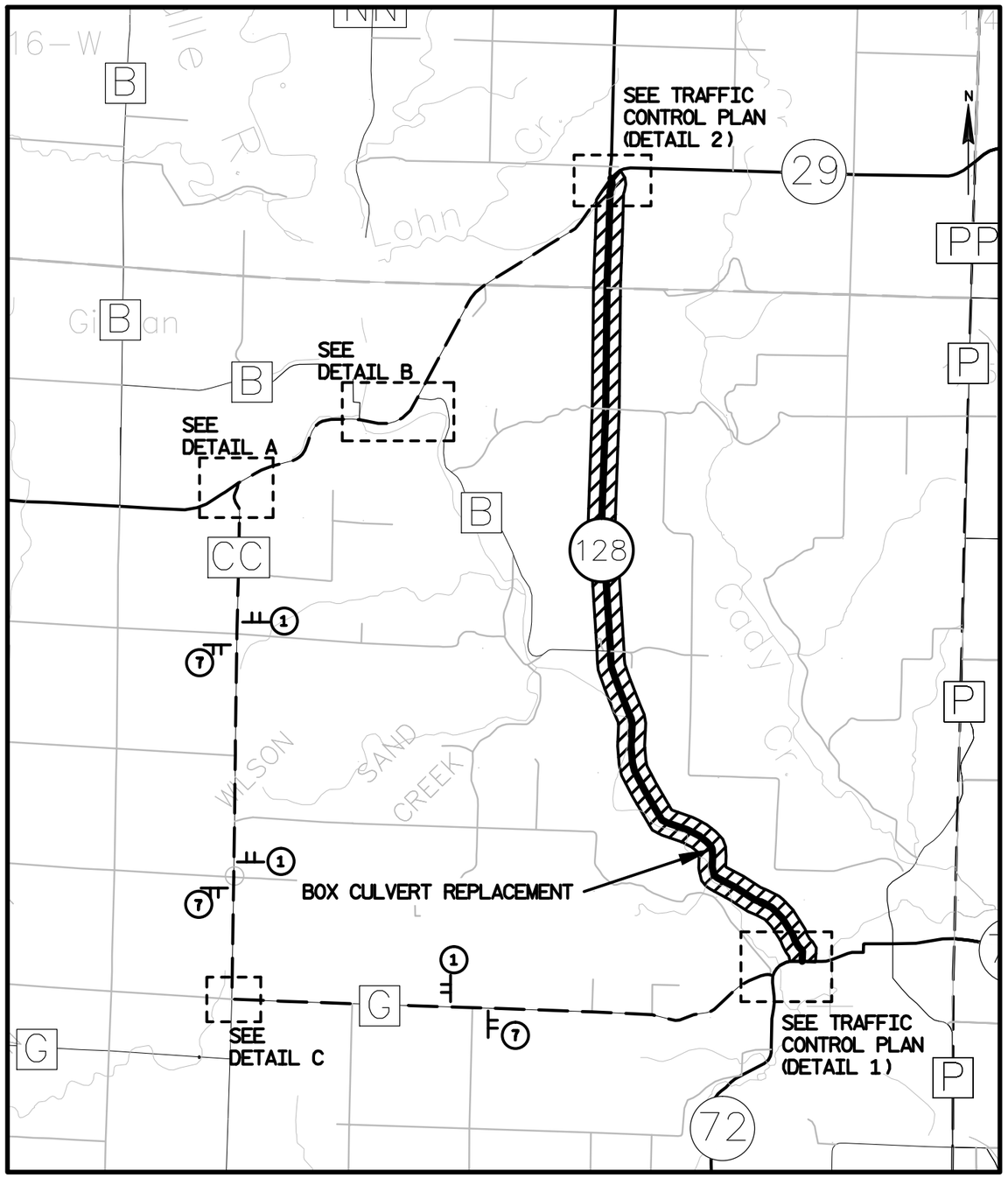
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	TRAFFIC CONTROL: STH 128 CLOSED DETAIL 1	SHEET 57	E

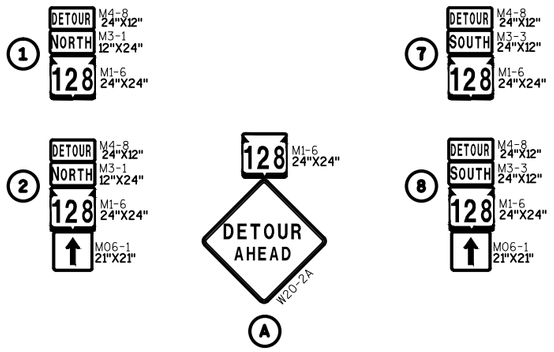
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\026002_TC_STH128__CLOSED.DWG PLOT DATE : 9/7/2016 8:20 AM PLOT BY : QUEST CIVIL ENG PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	TRAFFIC CONTROL: STH 128 CLOSED DETAIL 2	SHEET 58	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\026002_TC_STH128__CLOSED.DWG PLOT DATE : 6/30/2016 10:19 AM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1 IN:200 FT



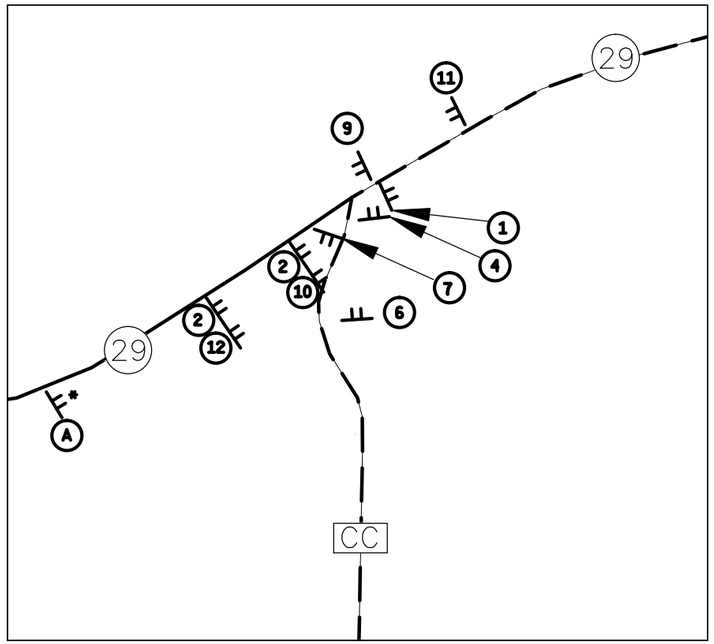


= WORK ZONE

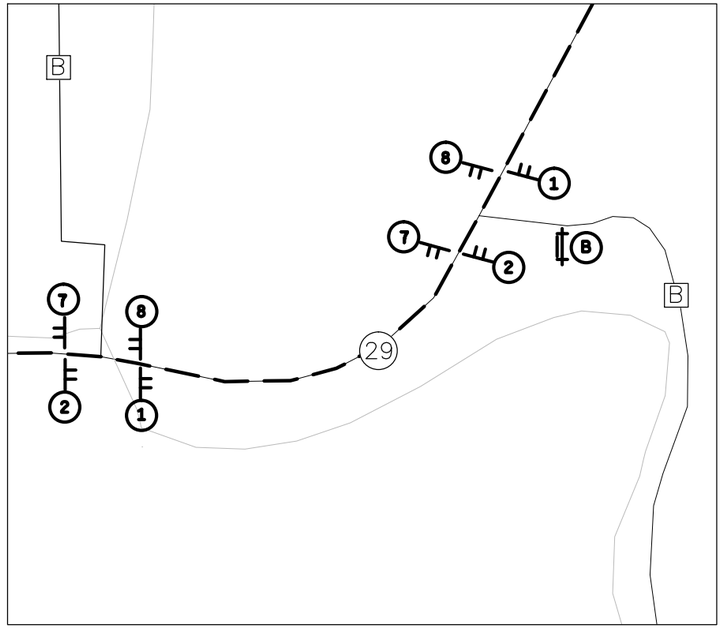
= DETOUR ROUTE

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	DETOUR PLAN	SHEET 59	E

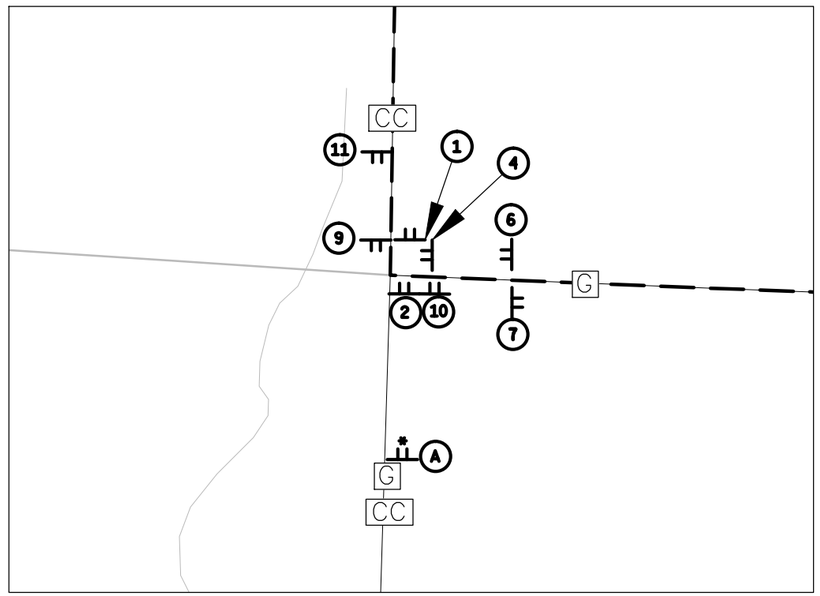
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\027001_DT_STH 128_7105-05-01.DWG PLOT DATE:6/11/2014 2:37 PM PLOT BY : QUEST CIVIL ENG. PLOT NAME : ---------- PLOT SCALE : 0.000175 WISDOT/CADDS SHEET 42



DETAIL A



DETAIL B



DETAIL C

ALL SIGN SPACING SHALL BE 500' UNLESS OTHERWISE NOTED.

1. DETOUR M4-8 24"X12" / NORTH M3-1 12"X24" / 128 M1-6 24"X24"
2. DETOUR M4-8 24"X12" / NORTH M3-1 12"X24" / 128 M1-6 24"X24" / MO6-1 21"X21"
3. DETOUR M4-8 24"X12" / NORTH M3-1 12"X24" / 128 M1-6 24"X24" / MO6-1 21"X21"
4. DETOUR M4-8 24"X12" / NORTH M3-1 12"X24" / 128 M1-6 24"X24" / MO6-1R 21"X21"
5. DETOUR M4-8 24"X12" / NORTH M3-1 12"X24" / 128 M1-6 24"X24" / MO5-1L 21"X21"
6. DETOUR M4-8 24"X12" / NORTH M3-1 12"X24" / 128 M1-6 24"X24" / MO5-1R 21"X21"
7. DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 128 M1-6 24"X24"
8. DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 128 M1-6 24"X24" / MO6-1 21"X21"
9. DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 128 M1-6 24"X24" / MO6-1 21"X21"
10. DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 128 M1-6 24"X24" / MO6-1R 21"X21"
11. DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 128 M1-6 24"X24" / MO5-1L 21"X21"
12. DETOUR M4-8 24"X12" / SOUTH M3-3 24"X12" / 128 M1-6 24"X24" / MO5-1R 21"X21"



A

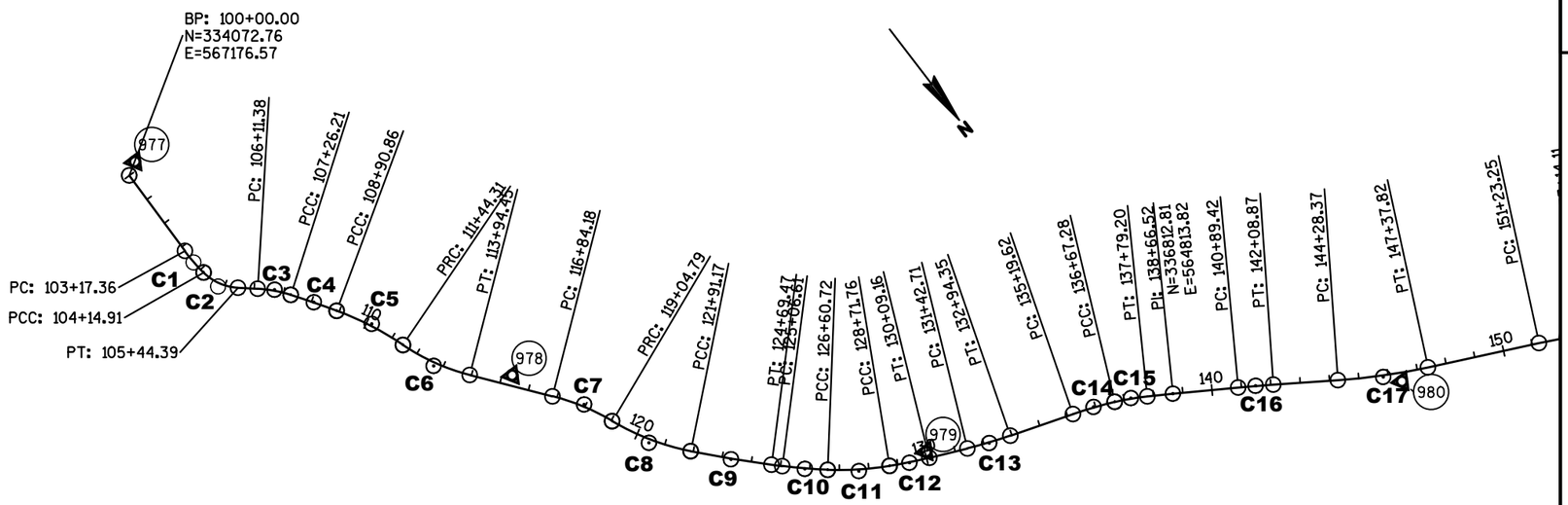
*** PLACE 1000' PRIOR TO DETOUR ROUTE MARKER ASSEMBLY**



B

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	DETOUR PLAN	SHEET 60	E

2



CURVE C1
PI STA = 103+66.24
Y = 334438.946
X = 567182.764
DELTA = 9°09'47"
D = 9°23'34"
T = 48.88'
L = 97.55'
R = 610.00'
PC STA = 103+17.36
Y = 334390.072
X = 567181.938
PT STA = 104+14.91
Y = 334487.328
X = 567175.797
BK = N00°58'05.9"E
AH = N08°11'41.1"W

CURVE C2
PI STA = 104+82.56
Y = 334554.288
X = 567166.154
DELTA = 40°59'14"
D = 31°39'18"
T = 67.65'
L = 129.48'
R = 181.00'
PC STA = 104+14.91
Y = 334487.328
X = 567175.797
PT STA = 105+44.39
Y = 334598.508
X = 567114.957
BK = N08°11'41.1"W
AH = N49°10'54.7"W

CURVE C3
PI STA = 106+69.09
Y = 334680.020
X = 567020.584
DELTA = 14°18'09"
D = 12°27'20"
T = 57.71'
L = 114.83'
R = 460.00'
PC STA = 106+11.38
Y = 334642.295
X = 567064.261
PT STA = 107+26.21
Y = 334727.367
X = 566987.580
BK = N49°10'54.7"W
AH = N34°52'45.5"W

CURVE C4
PI STA = 108+08.55
Y = 334794.914
X = 566940.495
DELTA = 2°37'14"
D = 1°35'30"
T = 82.34'
L = 164.65'
R = 3600.00'
PC STA = 107+26.21
Y = 334727.367
X = 566987.580
PT STA = 108+90.86
Y = 334864.544
X = 566896.546
BK = N34°52'45.5"W
AH = N32°15'31.8"W

CURVE C5
PI STA = 110+18.20
Y = 334972.235
X = 566828.576
DELTA = 13°49'50"
D = 5°27'24"
T = 127.35'
L = 253.46'
R = 1050.00'
PC STA = 108+90.86
Y = 334864.544
X = 566896.546
PT STA = 111+44.31
Y = 335093.052
X = 566788.319
BK = N32°15'31.8"W
AH = N18°25'42.1"W

CURVE C6
PI STA = 112+70.64
Y = 335212.898
X = 566748.385
DELTA = 19°46'05"
D = 7°54'10"
T = 126.32'
L = 250.14'
R = 725.00'
PC STA = 111+44.31
Y = 335093.052
X = 566788.319
PT STA = 113+94.45
Y = 335312.176
X = 566670.271
BK = N18°25'42.1"W
AH = N38°11'47.0"W

CURVE C7
PI STA = 117+95.24
Y = 335627.152
X = 566422.442
DELTA = 16°18'33"
D = 7°23'35"
T = 111.05'
L = 220.60'
R = 775.00'
PC STA = 116+84.18
Y = 335539.876
X = 566491.112
PT STA = 119+04.79
Y = 335730.200
X = 566381.044
BK = N38°11'46.9"W
AH = N21°53'13.6"W

CURVE C8
PI STA = 120+49.35
Y = 335864.342
X = 566327.154
DELTA = 19°18'15"
D = 6°44'26"
T = 144.56'
L = 286.38'
R = 850.00'
PC STA = 119+04.79
Y = 335730.200
X = 566381.044
PT STA = 121+91.17
Y = 335973.127
X = 566231.949
BK = N21°53'13.6"W
AH = N41°11'28.6"W

CURVE C9
PI STA = 123+30.38
Y = 336077.881
X = 566140.272
DELTA = 3°59'11"
D = 1°25'57"
T = 139.21'
L = 278.30'
R = 4000.00'
PC STA = 121+91.17
Y = 335973.127
X = 566231.949
PT STA = 124+69.47
Y = 336176.009
X = 566041.534
BK = N41°11'28.6"W
AH = N45°10'39.5"W

CURVE C10
PI STA = 125+83.72
Y = 336256.546
X = 565960.495
DELTA = 5°11'39"
D = 3°22'13"
T = 77.11'
L = 154.11'
R = 1700.00'
PC STA = 125+06.61
Y = 336202.192
X = 566015.188
PT STA = 126+60.72
Y = 336305.726
X = 565901.107
BK = N45°10'39.5"W
AH = N50°22'18.0"W

CURVE C11
PI STA = 127+66.60
Y = 336373.254
X = 565819.562
DELTA = 11°30'57"
D = 5°27'24"
T = 105.88'
L = 211.04'
R = 1050.00'
PC STA = 126+60.72
Y = 336305.726
X = 565901.107
PT STA = 128+71.76
Y = 336423.143
X = 565726.178
BK = N50°22'18.0"W
AH = N61°53'14.7"W

CURVE C12
PI STA = 129+40.49
Y = 336455.530
X = 565665.554
DELTA = 4°29'54"
D = 3°16'27"
T = 68.73'
L = 137.40'
R = 1750.00'
PC STA = 128+71.76
Y = 336423.143
X = 565726.178
PT STA = 130+09.16
Y = 336483.063
X = 565602.577
BK = N61°53'14.7"W
AH = N66°23'08.8"W

CURVE C13
PI STA = 132+18.58
Y = 336566.952
X = 565410.691
DELTA = 5°15'56"
D = 3°28'21"
T = 75.87'
L = 151.64'
R = 1650.00'
PC STA = 131+42.71
Y = 336536.559
X = 565480.211
PT STA = 132+94.35
Y = 336590.837
X = 565338.675
BK = N66°23'08.8"W
AH = N71°39'05.1"W

CURVE C14
PI STA = 135+93.51
Y = 336685.013
X = 565054.721
DELTA = 5°38'24"
D = 3°49'11"
T = 73.89'
L = 147.66'
R = 1500.00'
PC STA = 135+19.62
Y = 336661.753
X = 565124.852
PT STA = 136+67.28
Y = 336715.053
X = 564987.215
BK = N71°39'05.1"W
AH = N66°00'41.0"W

CURVE C15
PI STA = 137+23.32
Y = 336737.838
X = 564936.011
DELTA = 7°32'41"
D = 6°44'26"
T = 56.04'
L = 111.93'
R = 850.00'
PC STA = 136+67.28
Y = 336715.053
X = 564987.215
PT STA = 137+79.20
Y = 336767.148
X = 564888.243
BK = N66°00'41.0"W
AH = N58°28'00.4"W

CURVE C16
PI STA = 141+49.15
Y = 336962.843
X = 564574.302
DELTA = 1°22'07"
D = 1°08'45"
T = 59.72'
L = 119.44'
R = 5000.00'
PC STA = 140+89.42
Y = 336931.139
X = 564624.917
PT STA = 142+08.87
Y = 336995.748
X = 564524.459
BK = N57°56'16.0"W
AH = N56°34'08.6"W

CURVE C17
PI STA = 145+83.36
Y = 337202.069
X = 564211.923
DELTA = 8°14'47"
D = 2°39'54"
T = 154.99'
L = 309.45'
R = 2150.00'
PC STA = 144+28.37
Y = 337116.680
X = 564341.270
PT STA = 147+37.82
Y = 337268.023
X = 564071.665
BK = N56°34'08.6"W
AH = N64°48'56.0"W

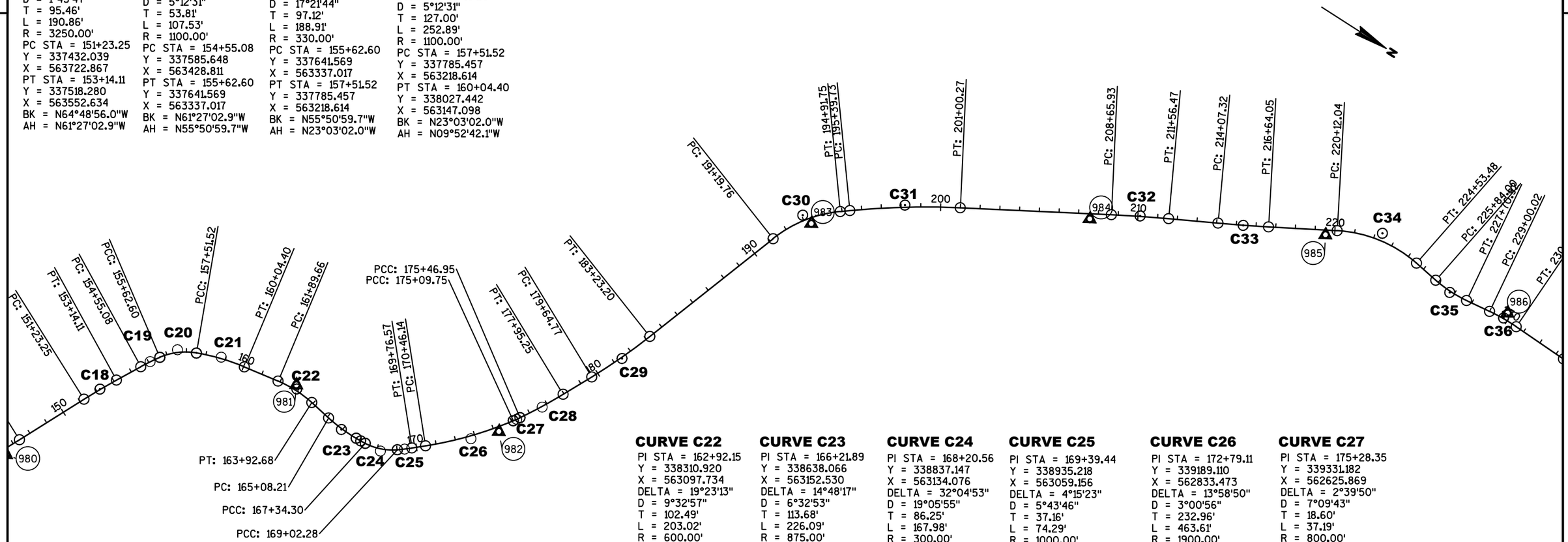
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CURVE C18
PI STA = 152+18.71
Y = 337472.660
X = 563636.484
DELTA = 3°21'53"
D = 1°45'47"
T = 95.46'
L = 190.86'
R = 3250.00'
PC STA = 151+23.25
Y = 337432.039
X = 563722.867
PT STA = 153+14.11
Y = 337518.280
X = 563552.634
BK = N64°48'56.0"W
AH = N61°27'02.9"W

CURVE C19
PI STA = 155+08.88
Y = 337611.363
X = 563381.547
DELTA = 5°36'03"
D = 5°12'31"
T = 53.81'
L = 107.53'
R = 1100.00'
PC STA = 154+55.08
Y = 337585.648
X = 563428.811
PT STA = 155+62.60
Y = 337641.569
X = 563337.017
BK = N61°27'02.9"W
AH = N55°50'59.7"W

CURVE C20
PI STA = 156+59.73
Y = 337696.089
X = 563256.642
DELTA = 32°47'58"
D = 17°21'44"
T = 97.12'
L = 188.91'
R = 330.00'
PC STA = 155+62.60
Y = 337641.569
X = 563337.017
PT STA = 157+51.52
Y = 337785.457
X = 563218.614
BK = N55°50'59.7"W
AH = N23°03'02.0"W

CURVE C21
PI STA = 158+78.52
Y = 337902.321
X = 563168.887
DELTA = 13°10'20"
D = 5°12'31"
T = 127.00'
L = 252.89'
R = 1100.00'
PC STA = 157+51.52
Y = 337785.457
X = 563218.614
PT STA = 160+04.40
Y = 338027.442
X = 563147.098
BK = N23°03'02.0"W
AH = N09°52'42.1"W



CURVE C22
PI STA = 162+92.15
Y = 338310.920
X = 563097.734
DELTA = 19°23'13"
D = 9°32'57"
T = 102.49'
L = 203.02'
R = 600.00'
PC STA = 161+89.66
Y = 338209.949
X = 563115.317
PT STA = 163+92.68
Y = 338412.002
X = 563114.665
BK = N09°52'42.1"W
AH = N09°30'31.3"E

CURVE C23
PI STA = 166+21.89
Y = 338638.066
X = 563152.530
DELTA = 14°48'17"
D = 6°32'53"
T = 113.68'
L = 226.09'
R = 875.00'
PC STA = 165+08.21
Y = 338525.949
X = 563133.751
PT STA = 167+34.30
Y = 338751.260
X = 563142.038
BK = N09°30'31.3"E
AH = N05°17'45.6"W

CURVE C24
PI STA = 168+20.56
Y = 338837.147
X = 563134.076
DELTA = 32°04'53"
D = 19°05'55"
T = 86.25'
L = 167.98'
R = 300.00'
PC STA = 167+34.30
Y = 338751.260
X = 563142.038
PT STA = 169+02.28
Y = 338905.689
X = 563081.714
BK = N05°17'45.6"W
AH = N37°22'39.1"W

CURVE C25
PI STA = 169+39.44
Y = 338935.218
X = 563059.156
DELTA = 4°15'23"
D = 5°43'46"
T = 37.16'
L = 74.29'
R = 1000.00'
PC STA = 169+02.28
Y = 338905.689
X = 563081.714
PT STA = 169+76.57
Y = 338962.992
X = 563034.468
BK = N37°22'39.1"W
AH = N41°38'01.6"W

CURVE C26
PI STA = 172+79.11
Y = 339189.110
X = 562833.473
DELTA = 13°58'50"
D = 3°00'56"
T = 232.96'
L = 463.61'
R = 1900.00'
PC STA = 170+46.14
Y = 339014.991
X = 562988.246
PT STA = 175+09.75
Y = 339320.678
X = 562641.219
BK = N41°38'01.6"W
AH = N55°36'51.6"W

CURVE C27
PI STA = 175+28.35
Y = 339331.182
X = 562625.869
DELTA = 2°39'50"
D = 7°09'43"
T = 18.60'
L = 37.19'
R = 800.00'
PC STA = 175+09.75
Y = 339320.678
X = 562641.219
PT STA = 175+46.95
Y = 339340.962
X = 562610.048
BK = N55°36'51.6"W
AH = N58°16'41.1"W

CURVE C28
PI STA = 176+71.20
Y = 339406.295
X = 562504.355
DELTA = 5°41'27"
D = 2°17'31"
T = 124.26'
L = 248.31'
R = 2500.00'
PC STA = 175+46.95
Y = 339340.962
X = 562610.048
PT STA = 177+95.25
Y = 339460.826
X = 562392.704
BK = N58°16'41.1"W
AH = N63°58'07.9"W

CURVE C29
PI STA = 181+44.22
Y = 339613.971
X = 562079.143
DELTA = 7°04'54"
D = 1°58'33"
T = 179.44'
L = 358.43'
R = 2900.00'
PC STA = 179+64.77
Y = 339535.221
X = 562240.383
PT STA = 183+23.20
Y = 339672.243
X = 561909.425
BK = N63°58'07.8"W
AH = N71°03'01.4"W

CURVE C30
PI STA = 193+11.01
Y = 339993.020
X = 560975.154
DELTA = 32°47'23"
D = 8°48'53"
T = 191.24'
L = 371.99'
R = 650.00'
PC STA = 191+19.76
Y = 339930.916
X = 561156.032
PT STA = 194+91.75
Y = 340143.183
X = 560856.729
BK = N71°03'01.4"W
AH = N38°15'38.3"W

CURVE C31
PI STA = 198+20.49
Y = 340401.305
X = 560653.165
DELTA = 8°14'06"
D = 1°28'09"
T = 280.76'
L = 560.54'
R = 3900.00'
PC STA = 195+39.73
Y = 340180.855
X = 560827.020
PT STA = 201+00.27
Y = 340644.384
X = 560512.679
BK = N38°15'38.3"W
AH = N30°01'32.0"W

CURVE C32
PI STA = 210+11.22
Y = 341433.087
X = 560056.852
DELTA = 2°33'40"
D = 0°52'53"
T = 145.29'
L = 290.54'
R = 6500.00'
PC STA = 208+65.93
Y = 341307.291
X = 560129.555
PT STA = 211+56.47
Y = 341562.006
X = 559989.843
BK = N30°01'32.0"W
AH = N27°27'52.3"W

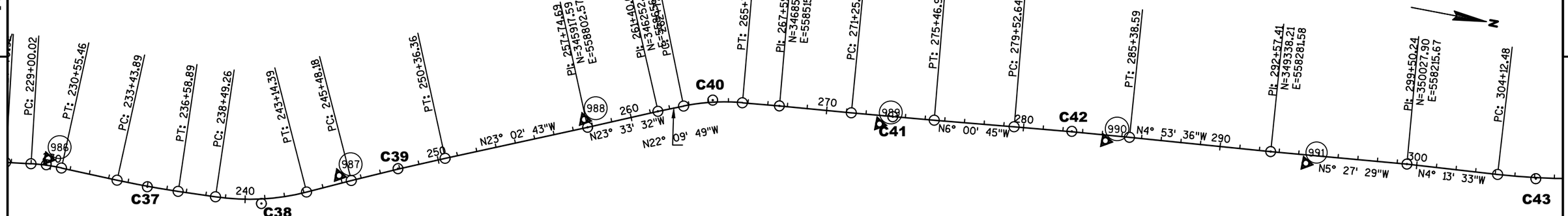
CURVE C33
PI STA = 215+35.70
Y = 341898.494
X = 559814.943
DELTA = 1°57'40"
D = 0°45'50"
T = 128.38'
L = 256.73'
R = 7500.00'
PC STA = 214+07.32
Y = 341784.586
X = 559874.150
PT STA = 216+64.05
Y = 342010.308
X = 559751.872
BK = N27°27'52.3"W
AH = N29°25'32.8"W

CURVE C34
PI STA = 222+41.24
Y = 342513.035
X = 559468.302
DELTA = 38°02'04"
D = 8°36'57"
T = 229.20'
L = 441.44'
R = 665.00'
PC STA = 220+12.04
Y = 342313.402
X = 559580.908
PT STA = 224+53.48
Y = 342739.655
X = 559502.610
BK = N29°25'32.8"W
AH = N08°36'31.3"E

CURVE C35
PI STA = 226+78.06
Y = 342961.703
X = 559536.226
DELTA = 15°51'59"
D = 8°29'18"
T = 94.06'
L = 186.92'
R = 675.00'
PC STA = 225+84.00
Y = 342868.699
X = 559522.146
PT STA = 227+70.92
Y = 343055.012
X = 559524.343
BK = N08°36'31.3"E
AH = N07°15'28.1"W

CURVE C36
PI STA = 229+77.90
Y = 343260.333
X = 559498.194
DELTA = 8°54'22"
D = 5°43'46"
T = 77.88'
L = 155.44'
R = 1000.00'
PC STA = 229+00.02
Y = 343183.078
X = 559508.033
PT STA = 230+55.46
Y = 343338.179
X = 559500.435
BK = N07°15'28.1"W
AH = N01°38'54.4"E

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	ALIGNMENT	SHEET 62	E



CURVE C37
PI STA = 235+01.46
Y = 343783.988
X = 559513.264
DELTA = 4°00'39"
D = 1°16'24"
T = 157.57'
L = 315.01'
R = 4500.00'
PC STA = 233+43.89
Y = 343626.486
X = 559508.732
PT STA = 236+58.89
Y = 343941.421
X = 559506.769
BK = N01°38'54.4"E
AH = N02°21'44.4"W

CURVE C38
PI STA = 240+84.91
Y = 344367.077
X = 559489.209
DELTA = 22°40'51"
D = 4°52'34"
T = 235.65'
L = 465.13'
R = 1175.00'
PC STA = 238+49.26
Y = 344131.627
X = 559498.923
PT STA = 243+14.39
Y = 344580.574
X = 559389.458
BK = N02°21'44.4"W
AH = N25°02'35.7"W

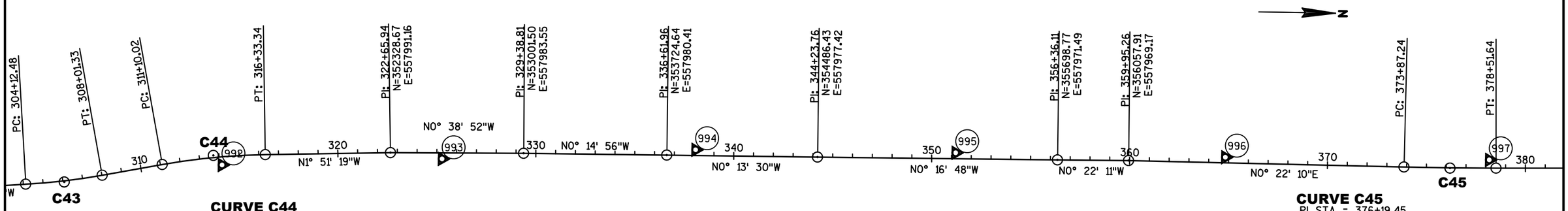
CURVE C39
PI STA = 247+92.29
Y = 345013.548
X = 559187.161
DELTA = 1°59'53"
D = 0°24'33"
T = 244.12'
L = 488.19'
R = 14000.00'
PC STA = 245+48.18
Y = 344792.381
X = 559290.496
PT STA = 250+36.36
Y = 345238.184
X = 559091.599
BK = N25°02'35.7"W
AH = N23°02'43.2"W

CURVE C40
PI STA = 264+22.94
Y = 346514.487
X = 558549.821
DELTA = 16°20'38"
D = 5°27'24"
T = 150.78'
L = 299.52'
R = 1050.00'
PC STA = 262+72.16
Y = 346374.846
X = 558606.704
PT STA = 265+71.68
Y = 346664.493
X = 558534.532
BK = N22°09'48.8"W
AH = N05°49'10.7"W

CURVE C41
PI STA = 273+36.28
Y = 347425.748
X = 558463.132
DELTA = 0°48'16"
D = 0°11'28"
T = 210.63'
L = 421.26'
R = 30000.00'
PC STA = 271+25.65
Y = 347215.984
X = 558482.251
PT STA = 275+46.91
Y = 347635.223
X = 558441.069
BK = N05°12'28.3"W
AH = N06°00'44.7"W

CURVE C42
PI STA = 282+45.62
Y = 348330.093
X = 558367.883
DELTA = 1°07'09"
D = 0°11'28"
T = 292.99'
L = 585.96'
R = 30000.00'
PC STA = 279+52.64
Y = 348038.717
X = 558398.572
PT STA = 285+38.59
Y = 348622.013
X = 558342.891
BK = N06°00'44.7"W
AH = N04°53'35.9"W

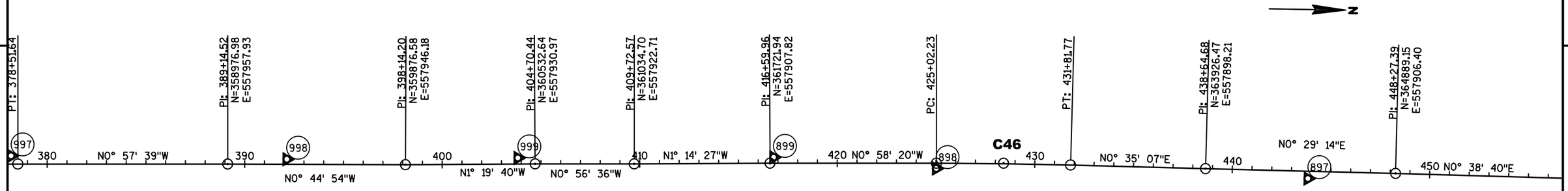
CURVE C43
PI STA = 306+07.14
Y = 350683.013
X = 558167.270
DELTA = 6°51'19"
D = 1°45'47"
T = 194.66'
L = 388.86'
R = 3250.00'
PC STA = 304+12.48
Y = 350488.883
X = 558181.614
PT STA = 308+01.33
Y = 350874.044
X = 558129.856
BK = N04°13'32.9"W
AH = N11°04'52.0"W



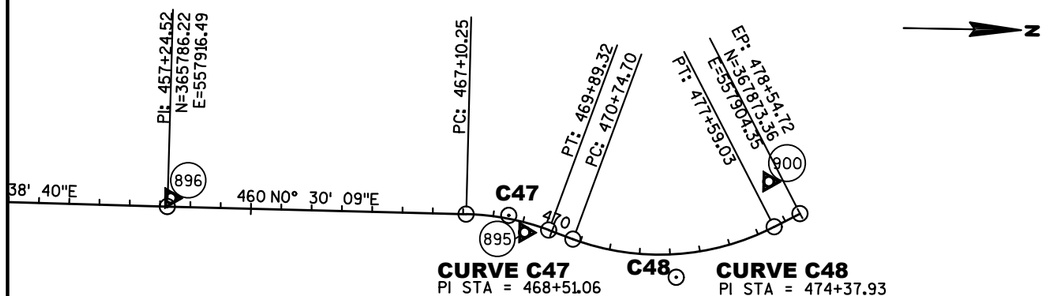
CURVE C44
PI STA = 313+72.25
Y = 351434.312
X = 558020.128
DELTA = 9°13'33"
D = 1°45'47"
T = 262.22'
L = 523.31'
R = 3250.00'
PC STA = 311+10.02
Y = 351176.977
X = 558070.527
PT STA = 316+33.34
Y = 351696.398
X = 558011.638
BK = N11°04'52.0"W
AH = N01°51'19.3"W

CURVE C45
PI STA = 376+19.45
Y = 357682.065
X = 557979.649
DELTA = 1°19'49"
D = 0°17'11"
T = 232.21'
L = 464.40'
R = 20000.00'
PC STA = 373+87.24
Y = 357449.860
X = 557978.151
PT STA = 378+51.64
Y = 357914.242
X = 557975.755
BK = N00°22'10.2"E
AH = N00°57'39.2"W

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CURVE C46
PI STA = 428+42.02
Y = 362903.828
X = 557887.766
DELTA = 1°33'27"
D = 0°13'45"
T = 339.79'
L = 679.54'
R = 25000.00'
PC STA = 425+02.23
Y = 362564.087
X = 557893.531
PT STA = 431+81.77
Y = 363243.599
X = 557891.237
BK = N00°58'19.7"W
AH = N00°35'06.8"E



CURVE C47
PI STA = 468+51.06
Y = 366912.714
X = 557926.369
DELTA = 18°48'40"
D = 6°44'26"
T = 140.80'
L = 279.07'
R = 850.00'
PC STA = 467+10.25
Y = 366771.919
X = 557925.134
PT STA = 469+89.32
Y = 367045.591
X = 557972.937
BK = N00°30'08.6"E
AH = N19°18'48.5"E

CURVE C48
PI STA = 474+37.93
Y = 367468.955
X = 558121.309
DELTA = 47°31'35"
D = 6°56'42"
T = 363.23'
L = 684.33'
R = 825.00'
PC STA = 470+74.70
Y = 367126.162
X = 558001.174
PT STA = 477+59.03
Y = 367789.037
X = 557949.590
BK = N19°18'48.5"E
AH = N28°12'46.2"W

CONTROL POINTS*			
POINT NUMBER	Y	X	ELEVATION
895	366966.690	557981.361	1185.21
896	365796.865	557887.692	1191.42
897	364446.051	557939.736	1180.99
898	362563.700	557920.530	1165.97
899	361739.516	557877.784	1150.45
900	367769.140	557800.378	1212.96
901	356697.535	568400.121	1233.67
902	340890.968	565902.068	1139.62
977	334046.507	567132.942	853.43
978	335400.362	566556.252	886.23
979	336459.657	565598.337	882.06
980	337251.812	564170.919	874.75
981	338298.244	563081.330	886.85
982	339289.046	562726.514	870.54
983	340052.541	560986.930	864.20
984	341226.374	560206.703	881.59
985	342274.615	559630.511	896.92
986	343263.785	559466.265	891.50

CONTROL POINTS*			
POINT NUMBER	Y	X	ELEVATION
987	344727.312	559277.081	872.22
988	345893.845	558767.238	874.96
989	347365.862	558511.448	895.58
990	348506.067	558382.271	900.46
991	349524.492	558306.427	929.72
992	351478.790	558068.029	1110.75
993	352590.098	558018.635	1159.16
994	353869.899	557951.280	1154.61
995	355184.215	557944.161	1181.67
996	356546.483	557944.090	1158.44
997	357879.821	557934.835	1145.55
998	359275.210	557928.840	1140.77
999	360444.839	557902.306	1181.68

*1" IRON ROD W/ RED CAP AND MARKED WITH WHITE WITNESS T-POST NEARBY

SUPERELEVATION TRANSITIONS-REHABILITATION SECTION

STATION	LEFT LANE	RIGHT LANE
CURVE C1- TRANSITION SUPER		
103+17.36'	-2.00%	-2.00%
103+53.36'	-2.00%	0.00%
103+89.36'	-2.00%	2.00%
104+25.36'	-4.00%	2.00%
104+61.36'	-6.00%	4.00%
CURVE C2 - SUPER 6.0%		
104+90.00'	-6.00%	6.00%
105+08.06'	-6.00%	6.00%
CURVE C3 - SUPER -5.0%		
106+41.71'	5.00%	-5.00%
106+95.88'	5.00%	-5.00%
CURVE C4- TRANSITION SUPER		
CURVE C5 - SUPER -3.5%		
109+12.19'	3.50%	-3.50%
111+25.00'	3.50%	-3.50%
CURVE C6 - SUPER 4.1%		
112+25.00'	-4.10%	4.10%
113+45.00'	-4.10%	4.10%
113+95.00'	-2.00%	2.00%
114+45.00'	-2.00%	0.00%
114+95.00'	-2.00%	-2.00%
CURVE C7 - SUPER -5.9%		
115+52.44'	-2.00%	-2.00%
115+96.85'	0.00%	-2.00%
115+96.85'	0.00%	-2.00%
116+41.25'	2.00%	-2.00%
117+27.85'	5.90%	-5.90%
118+44.00'	5.90%	-5.90%
CURVE C8 - SUPER 5.8%		
119+64.00'	-5.80%	5.80%
121+48.18'	-5.80%	5.80%
CURVE C9 - SUPER 2.3%		
122+08.17'	-2.30%	2.30%
124+52.47'	-2.30%	2.30%
CURVE C10 - SUPER 4.2%		
125+37.61'	-4.20%	4.20%
126+29.73'	-4.20%	4.20%
CURVE C11 - SUPER 5.4%		
127+00.05'	-5.40%	5.40%
128+32.43'	-5.40%	5.40%
CURVE C12 - SUPER 4.2%		
129+02.76'	-4.20%	4.20%
129+78.16'	-4.20%	4.20%
CURVE C13 - SUPER 4.3%		
131+74.70'	-4.30%	4.30%
132+62.35'	-4.30%	4.30%
133+13.70'	-2.00%	2.00%
133+58.35'	-2.00%	0.00%
134+03.00'	-2.00%	-2.00%

STATION	LEFT LANE	RIGHT LANE
CURVE C14 - SUPER -4.5%		
134+08.51'	-2.00%	-2.00%
134+52.95'	0.00%	-2.00%
134+97.40'	2.00%	-2.00%
135+52.95'	4.50%	-4.50%
136+33.95'	4.50%	-4.50%
CURVE C15 - SUPER -5.8%		
137+10.27'	5.80%	-5.80%
137+36.21'	5.80%	-5.80%
138+20.73'	2.00%	-2.00%
138+65.21'	0.00%	-2.00%
139+09.69'	-2.00%	-2.00%
CURVE C16 - NORMAL CROWN		
CURVE C17 - SUPER 3.7%		
143+29.38'	-2.00%	-2.00%
143+73.70'	-2.00%	0.00%
144+18.03'	-2.00%	2.00%
144+55.70'	-3.70%	3.70%
147+10.49'	-3.70%	3.70%
147+48.16'	-2.00%	2.00%
147+92.49'	-2.00%	0.00%
148+36.81'	-2.00%	-2.00%
CURVE C18 - NORMAL CROWN		
CURVE C19 - SUPER -3.4%		
153+77.27'	-2.00%	-2.00%
154+13.74'	0.00%	-2.00%
154+50.21'	2.00%	-2.00%
154+75.74'	3.40%	-3.40%
155+41.94'	3.40%	-3.40%
CURVE C20 - SUPER -5.7%		
155+97.27'	5.70%	-5.70%
157+16.85'	5.70%	-5.70%
CURVE C21 - SUPER -3.4%		
157+72.18'	3.40%	-3.40%
159+83.74'	3.40%	-3.40%
160+09.27'	2.00%	-2.00%
160+45.74'	0.00%	-2.00%
160+82.21'	-2.00%	-2.00%
CURVE C22 - SUPER -4.5%		
160+98.54'	-2.00%	-2.00%
161+34.99'	0.00%	-2.00%
161+71.43'	2.00%	-2.00%
162+16.99'	4.50%	-4.50%
163+65.35'	4.50%	-4.50%
CURVE C23 - SUPER 3.8%		
165+31.21'	-3.80%	3.80%
167+11.31'	-3.80%	3.80%
CURVE C24 - SUPER 5.8%		
167+69.30'	-5.80%	5.80%
168+67.29'	-5.80%	5.80%

STATION	LEFT LANE	RIGHT LANE
CURVE C25 - SUPER 3.6%		
169+23.95'	-3.60%	3.60%
169+54.91'	-3.60%	3.60%
CURVE C26 - SUPER 2.3%		
170+60.14'	-2.30%	2.30%
174+95.76'	-2.30%	2.30%
CURVE C27 - TRANSITION SUPER		
CURVE C28 - SUPER 2%		
175+58.95'	-2.00%	2.00%
177+83.26'	-2.00%	2.00%
178+19.26'	-2.00%	0.00%
178+55.26'	-2.00%	-2.00%
CURVE C29 - SUPER 2%		
179+04.77'	-2.00%	-2.00%
179+40.77'	-2.00%	0.00%
179+76.77'	-2.00%	2.00%
183+11.20'	-2.00%	2.00%
183+47.20'	-2.00%	0.00%
183+83.20'	-2.00%	-2.00%
CURVE C30 - SUPER -5.7%		
190+38.00'	-2.00%	-2.00%
190+79.00'	0.00%	-2.00%
191+19.00'	2.00%	-2.00%
192+00.00'	5.70%	-5.70%
194+52.43'	5.70%	-5.70%
CURVE C31 - SUPER -2.0%		
195+53.40'	2.00%	-2.00%
200+86.61'	2.00%	-2.00%
200+86.61'	2.00%	-2.00%
201+27.61'	0.00%	-2.00%
201+68.61'	-2.00%	-2.00%
CURVE C32 - NORMAL CROWN		
CURVE C33 - NORMAL CROWN		
CURVE C34 - SUPER -5.0%		
219+37.00'	-2.00%	-2.00%
219+75.00'	0.00%	-2.00%
220+12.04'	2.00%	-2.00%
220+68.00'	5.00%	-5.00%
224+21.15'	5.00%	-5.00%
CURVE C35 - SUPER 5.0%		
226+16.33'	-5.00%	5.00%
227+38.59'	-5.00%	5.00%
CURVE C36 - SUPER -4.2%		
229+27.02'	4.20%	-4.20%
230+28.47'	4.20%	-4.20%
230+70.90'	2.00%	-2.00%
231+09.47'	0.00%	-2.00%
231+48.04'	-2.00%	-2.00%
CURVE C37 - NORMAL CROWN		

CURVE C38 - SUPER 3.9%		
237+60.80'	-2.00%	-2.00%
237+99.26'	-2.00%	0.00%
238+37.72'	-2.00%	2.00%
238+74.26'	-3.90%	3.90%
242+89.40'	-3.90%	3.90%
243+25.94'	-2.00%	2.00%
243+64.40'	-2.00%	0.00%
244+02.86'	-2.00%	-2.00%

APPROXIMATE SUPERELEVATION TRANSITIONS SHOWN WERE USED TO DETERMINE GRADING LIMITS AND ELEVATIONS FROM SURFACE MODEL AND ARE INCLUDED FOR INFORMATION ONLY.

DATE 12OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	7105-05-70 QUANTITY
0010	201.0105	Clearing	STA	111.000	111.000
0020	201.0205	Grubbing	STA	111.000	111.000
0030	203.0100	Removing Small Pipe Culverts	EACH	13.000	13.000
0040	203.0200	Removing Old Structure (station) 01. Sta 168+03	LS	1.000	1.000
0050	204.0110	Removing Asphaltic Surface	SY	1,347.000	1,347.000
0060	204.0115	Removing Asphaltic Surface Butt Joints	SY	122.000	122.000
0070	204.0120	Removing Asphaltic Surface Milling	SY	103,807.000	103,807.000
0080	204.0165	Removing Guardrail	LF	1,951.000	1,951.000
0090	205.0100	Excavation Common	CY	13,848.000	13,848.000
0100	205.0200	Excavation Rock	CY	100.000	100.000
0110	208.0100	Borrow	CY	3,301.000	3,301.000
0120	209.2100	Backfill Granular Grade 2	CY	90.000	90.000
0130	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 7105-05-70	LS	1.000	1.000
0140	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	377.000	377.000
0150	213.0100	Finishing Roadway (project) 01. 7150-05-70	EACH	1.000	1.000
0160	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,167.000	1,167.000
0170	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	10,430.000	10,430.000
0180	312.0110	Select Crushed Material	TON	336.000	336.000
0190	440.4410	Incentive IRI Ride	DOL	14,266.000	14,266.000
0200	455.0605	Tack Coat	GAL	12,235.000	12,235.000
0210	460.2000	Incentive Density HMA Pavement	DOL	12,242.000	12,242.000
0220	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	37,700.000	37,700.000
0230	460.6444	HMA Pavement 4 MT 58-34 H	TON	15,303.000	15,303.000
0240	465.0110	Asphaltic Surface Patching	TON	1,152.000	1,152.000
0250	465.0115	Asphaltic Surface Detours	TON	640.000	640.000
0260	465.0315	Asphaltic Flumes	SY	15.000	15.000
0270	520.8700	Cleaning Culvert Pipes	EACH	10.000	10.000
0280	521.0115	Culvert Pipe Corrugated Steel 15-Inch	LF	3.000	3.000
0290	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	68.000	68.000
0300	521.0130	Culvert Pipe Corrugated Steel 30-Inch	LF	5.000	5.000
0310	521.0724	Pipe Arch Corrugated Steel 24x18-Inch	LF	3.000	3.000
0320	521.1015	Apron Endwalls for Culvert Pipe Steel 15-Inch	EACH	1.000	1.000
0330	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	1.000	1.000
0340	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	4.000	4.000
0350	521.1030	Apron Endwalls for Culvert Pipe Steel 30-Inch	EACH	5.000	5.000
0360	521.1224	Apron Endwalls for Pipe Arch Steel 24x18-Inch	EACH	3.000	3.000
0370	522.0184	Culvert Pipe Reinforced Concrete Class III 84-Inch	LF	72.000	72.000
0380	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	2.000	2.000
0390	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	3.000	3.000
0400	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0410	522.1084	Apron Endwalls for Culvert Pipe Reinforced Concrete 84-Inch	EACH	2.000	2.000

DATE 12OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	7105-05-70 QUANTITY
0420	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	1,475.000	1,475.000
0430	606.0100	Riprap Light	CY	2.200	2.200
0440	606.0200	Riprap Medium	CY	14.200	14.200
0450	606.0300	Riprap Heavy	CY	150.000	150.000
0460	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	87.000	87.000
0470	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	145.000	145.000
0480	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	92.000	92.000
0490	611.0627	Inlet Covers Type HM	EACH	2.000	2.000
0500	611.0642	Inlet Covers Type MS	EACH	6.000	6.000
0510	611.3230	Inlets 2x3-FT	EACH	2.000	2.000
0520	611.3901	Inlets Median 1 Grate	EACH	6.000	6.000
0530	614.0305	Steel Plate Beam Guard Class A	LF	1,780.000	1,780.000
0540	614.0345	Steel Plate Beam Guard Short Radius	LF	31.000	31.000
0550	614.0390	Steel Plate Beam Guard Short Radius Terminal	EACH	2.000	2.000
0560	614.0396	Guardrail Mow Strip Asphalt	SY	2,780.000	2,780.000
0570	614.2300	MGS Guardrail 3	LF	2,888.000	2,888.000
0580	614.2330	MGS Guardrail 3 K	LF	1,949.000	1,949.000
0590	614.2340	MGS Guardrail 3 L	LF	565.000	565.000
0600	614.2610	MGS Guardrail Terminal EAT	EACH	16.000	16.000
0610	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7150-05-70	EACH	1.000	1.000
0620	619.1000	Mobilization	EACH	1.000	1.000
0630	621.0100	Landmark Reference Monuments	EACH	20.000	20.000
0640	624.0100	Water	MGAL	179.000	179.000
0650	625.0100	Topsoil	SY	52,360.000	52,360.000
0660	627.0200	Mulching	SY	20,903.000	20,903.000
0670	628.1504	Silt Fence	LF	14,950.000	14,950.000
0680	628.1520	Silt Fence Maintenance	LF	14,950.000	14,950.000
0690	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0700	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0710	628.2004	Erosion Mat Class I Type B	SY	5,740.000	5,740.000
0720	628.2008	Erosion Mat Urban Class I Type B	SY	1,200.000	1,200.000
0730	628.2023	Erosion Mat Class II Type B	SY	16,480.000	16,480.000
0740	628.2027	Erosion Mat Class II Type C	SY	3,330.000	3,330.000
0750	628.2031	Erosion Mat Class III Type A	SY	4,720.000	4,720.000
0760	628.7005	Inlet Protection Type A	EACH	10.000	10.000
0770	628.7010	Inlet Protection Type B	EACH	8.000	8.000
0780	628.7015	Inlet Protection Type C	EACH	3.000	3.000
0790	628.7504	Temporary Ditch Checks	LF	297.000	297.000
0800	628.7555	Culvert Pipe Checks	EACH	62.000	62.000
0810	628.7570	Rock Bags	EACH	220.000	220.000
0820	629.0210	Fertilizer Type B	CWT	33.000	33.000
0830	630.0120	Seeding Mixture No. 20	LB	1,399.000	1,399.000
0840	633.5200	Markers Culvert End	EACH	74.000	74.000
0850	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	53.000	53.000
0860	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	107.000	107.000
0870	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	5.000	5.000
0880	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	2.000	2.000
0890	637.2210	Signs Type II Reflective H	SF	491.850	491.850
0900	637.2230	Signs Type II Reflective F	SF	629.660	629.660

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DATE 12OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	7105-05-70 QUANTITY
0910	638.2102	Moving Signs Type II	EACH	8.000	8.000
0920	638.2602	Removing Signs Type II	EACH	139.000	139.000
0930	638.3000	Removing Small Sign Supports	EACH	182.000	182.000
0940	638.4000	Moving Small Sign Supports	EACH	8.000	8.000
0950	642.5201	Field Office Type C	EACH	1.000	1.000
0960	643.0100	Traffic Control (project) 01. 7105-05-70	EACH	1.000	1.000
0970	643.0300	Traffic Control Drums	DAY	4,850.000	4,850.000
0980	643.0420	Traffic Control Barricades Type III	DAY	1,753.000	1,753.000
0990	643.0705	Traffic Control Warning Lights Type A	DAY	3,506.000	3,506.000
1000	643.0715	Traffic Control Warning Lights Type C	DAY	1,868.000	1,868.000
1010	643.0900	Traffic Control Signs	DAY	4,433.000	4,433.000
1020	643.0920	Traffic Control Covering Signs Type II	EACH	12.000	12.000
1030	643.1000	Traffic Control Signs Fixed Message	SF	9.380	9.380
1040	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
1050	643.2000	Traffic Control Detour (project) 01. 7150-05-70	EACH	1.000	1.000
1060	643.3000	Traffic Control Detour Signs	DAY	16,821.000	16,821.000
1070	645.0120	Geotextile Type HR	SY	308.000	308.000
1080	645.0130	Geotextile Type R	SY	7.000	7.000
1090	646.0103	Pavement Marking Paint 4-Inch	LF	177,440.000	177,440.000
1100	646.0106	Pavement Marking Epoxy 4-Inch	LF	81,741.000	81,741.000
1110	646.0126	Pavement Marking Epoxy 8-Inch	LF	190.000	190.000
1120	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	53,308.000	53,308.000
1130	647.0563	Pavement Marking Stop Line Paint 18-Inch	LF	75.000	75.000
1140	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	30.000	30.000
1150	648.0100	Locating No-Passing Zones	MI	15.800	15.800
1160	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	75,000.000	75,000.000
1170	650.4000	Construction Staking Storm Sewer	EACH	15.000	15.000
1180	650.4500	Construction Staking Subgrade	LF	15,310.000	15,310.000
1190	650.5000	Construction Staking Base	LF	15,310.000	15,310.000
1200	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,475.000	1,475.000
1210	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000
1220	650.8000	Construction Staking Resurfacing Reference	LF	37,686.000	37,686.000
1230	650.9910	Construction Staking Supplemental Control (project) 01.7150-05-70	LS	1.000	1.000
1240	650.9920	Construction Staking Slope Stakes	LF	15,310.000	15,310.000
1250	690.0150	Sawing Asphalt	LF	2,561.000	2,561.000
1260	ASP.1T0A	On-the-Job Training Apprentice at $5. 00/HR	HRS	2,000.000	2,000.000
1270	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	630.000	630.000
1280	SPV.0060	Special 01. Reestablish Section Corner Monuments	EACH	5.000	5.000
1290	SPV.0090	Special 01.Ditch Restoration	LF	440.000	440.000
1300	SPV.0090	Special 02. Concrete Curb and Gutter Cure and Seal Treatment	LF	1,475.000	1,475.000
1310	SPV.0105	Special 01. Milling and Removing Temporary Joint	LS	1.000	1.000
1320	SPV.0120	Special 01. Water For Seeded Areas	MGAL	1,174.000	1,174.000
1330	SPV.0165	Special 01. Sprayed Asphaltic Shoulder Treatment	SF	13,780.000	13,780.000

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CLEARING AND GRUBBING

STA	- STA	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	NOTES
104+00	- 106+00	RT	2	2	TO 3' BEYOND SLOPE INTERCEPT RT
106+00	- 116+00	LT & RT	10	10	TO 3' BEYOND SLOPE INTERCEPT LT & RT
116+00	- 132+00	RT	16	16	TO 3' BEYOND SLOPE INTERCEPT RT
132+00	- 135+00	LT & RT	3	3	TO 3' BEYOND SLOPE INTERCEPT LT & RT
135+00	- 146+00	RT	11	11	TO 3' BEYOND SLOPE INTERCEPT RT
146+00	- 172+00	LT & RT	26	26	TO 3' BEYOND SLOPE INTERCEPT LT & RT
178+00	- 192+00	LT	14	14	TO 3' BEYOND SLOPE INTERCEPT LT
194+00	- 199+00	LT	5	5	TO 3' BEYOND SLOPE INTERCEPT LT
212+00	- 214+00	RT	2	2	TO 3' BEYOND SLOPE INTERCEPT LT
220+00	- 222+00	LT	2	2	TO 3' BEYOND SLOPE INTERCEPT LT
225+00	- 230+00	LT	5	5	TO SLOPE INTERCEPT LT
232+00	- 238+00	LT	6	6	TO SLOPE INTERCEPT LT
284+00	- 286+00	LT	2	2	TO 33' LT
417+00	- 424+00	LT & RT	7	7	TO 33' BOTH SIDES
TOTALS			**111**	**111**	

REMOVING CULVERTS

STA	LOC	CULVERT #	SIZE	DISC	203.0100 REMOVING SMALL PIPE CULVERTS EACH	203.0200 REMOVING OLD STRUCTURE STA	209.2100 BACKFILL GRANULAR GRADE 2 CY
101+00	STH 128	100	18"	CPCS	1	---	---
114+50	STH 128	308	18"	CPCS	1	---	---
124+78	STH 128	309	24"	CPCS	1	---	---
137+10	STH 128	310	24"	CPCS	1	---	---
151+96	STH 128	311	18"	CPCS	1	---	---
156+72	STH 128	312	18"	CPCS	1	---	---
168+03	STH 128	850	138"X96"	CONC BOX	---	1	90
179+23	STH 128	313	30"	CPCS	1	---	---
251+62	STH 128	317	24"X18"	ARCH CS	1	---	---
338+18	STH 128	324	15"	CPCS	1	---	---
378+22	STH 128	853	18"	CPCS	1	---	---
389+28	STH 128	330	36"	CPCS	1	---	---
414+26	STH 128	331	30"	CPCS	1	---	---
447+25	STH 128	4078	24"	CPCS	1	---	---
				TOTAL	**13**	**1**	**90**

REMOVING GUARDRAIL

STA	- STA	LOC	204.0165 REMOVING GUARDRAIL LF
112+10	- 113+48	LT STH 128	138
167+10	- 167+60	LT STH 128	50
167+00	- 167+50	RT STH 128	50
295+38	- 312+50	RT STH 128	1,713
		TOTAL	**1,951**

REMOVING ASPHALTIC SURFACE

STA	- STA	DESCRIPTION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
100+90	167+75	-	-	16,341
114+50		PIPE	49	-
124+78		PIPE	49	-
137+10		PIPE	49	-
150+11		PIPE	49	-
151+96		PIPE	49	-
156+75		PIPE	49	-
164+25		PIPE	49	-
167+75	168+75	-	244	
168+75	248+00	-	-	19,372
248+00	290+00	-	-	10,267
290+00	322+00	LEFT LANE	-	3,911
290+00	322+00	RIGHT LANE AND SHOULDER	-	6,756
290+00	322+00	RIGHT SHLDR BEHIND GR	711	0
322+00	328+40	-	-	1,564
328+40	332+00	-	-	1,320
332+00	476+50	-	-	35,322
378+22		PIPE	49	-
476+50	477+76		-	750
PARTRIDGE AVE		INTERSECTION	-	289
CTH B		INTERSECTION	-	421
770TH AVE		INTERSECTION	-	278
850TH AVE WEST		INTERSECTION	-	72
850TH AVE EAST		INTERSECTION	-	342
890TH AVE EAST		INTERSECTION	-	223
890TH AVE WEST		INTERSECTION	-	223
DETOUR ROUTE - CTH CC		SCHOOL-STH 29	-	6,356
		TOTAL	**1347**	**103807**

REMOVING ASPHALTIC SURFACE BUTT JOINTS

LOCATION	204.0115 REMOVING ASPHALTIC BUTT JOINTS SY
BEGIN PROJECT STA 100+90	14
PARTRIDGE	8
COUNTY B	11
770TH AVE	8
850TH AVE WEST	7
850TH AVE EAST	8
890TH AVE EAST	7
890TH AVE WEST	7
END PROJECT STA 477+76	52
TOTAL	**122**

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

EXCAVATION

STA	-	STA	LOC	205.0100 EXCAVATION COMMON CY	205.0200 EXCAVATION ROCK CY
			STH 128	13848	-
MISC BOULDERS STA 109+00		-STA 169+00		-	100
			TOTAL	**13848**	**100**

BORROW

STA	-	STA	LOC	208.0100 BORROW CY
			STH 128	3301
			TOTAL	**3301**

WATER

STA	- STA	624.0100 WATER MGAL
7150-05-00		179
TOTAL		179

FINISHING ROADWAY

PROJECT	213.0100 FINISHING ROADWAY (PROJECT) EACH
7105-05-70	1.0
TOTAL	**1**

SPRAYED ASPHALT

STA	-	STA	LOC	SPV.0165.01 SPRAYED ASPHALTIC SHOULDER TREATMENT SF
295+20	-	322+76	LEFT SHOULDER	13780
			TOTAL	**13780**

BASE AGGREGATE DENSE

STA	-	STA	LOC	305.0110 BASE AGGREGATE DENSE 3/4" TON	305.0120 BASE AGGREGATE DENSE 1 1/4" TON	312.0110 SELECT CRUSHED MATERIAL TON
100+90	-	105+00	STH 128	60	0	---
105+00	-	111+50	STH 128	80	520	---
111+50	-	114+00	STH 128	20	170	---
114+00	-	116+00	STH 128	10	150	---
116+00	-	144+00	STH 128	0	1760	---
144+00	-	148+50	STH 128	70	370	---
148+50	-	150+75	STH 128	10	160	---
150+75	-	156+50	STH 128	40	300	---
156+50	-	161+75	STH 128	30	360	---
161+75	-	162+62	STH 128	10	40	---
162+62	-	164+00	STH 128	20	90	---
164+00	-	167+17	STH 128	40	250	---
167+17	-	167+75	STH 128	10	70	---
167+75	-	168+75	STH 128	20	230	---
167+75		168+75	BOX CULVERT	---	---	336
168+75	-	169+03	STH 128	10	30	---
169+03	-	169+80	STH 128	20	80	---
169+80	-	171+00	STH 128	20	90	---
171+00	-	208+25	STH 128	0	1930	---
208+25	-	215+00	STH 128	0	310	---
215+00	-	221+50	STH 128	0	340	---
221+50	-	223+50	STH 128	0	130	---
223+50	-	224+50	STH 128	0	50	---
224+50	-	226+00	STH 128	10	100	---
226+00	-	236+00	STH 128	70	580	---
236+00	-	238+00	STH 128	40	160	---
238+00	-	239+50	STH 128	40	130	---
239+50	-	242+00	STH 128	60	240	---
242+00	-	248+00	STH 128	0	310	---
280+00	-	282+50	STH 128	20	210	---
282+50	-	283+50	STH 128	10	80	---
283+50	-	286+00	STH 128	20	210	---
296+20	-	322+76	STH 128	160	10	---
116+00		DRIVEWAY		47	---	---
0+00		1+25	DRIVE RELO	0	160	---
PIPE CROSSINGS				0	310	---
UNDISTRIBUTED (TAPERS/TRANSITIONS)				100	500	---
UNDISTRIBUTED (DRIVEWAY BLENDING)				120	---	---
			TOTAL	**1,167**	**10,430**	**336**

ALL ITEMS CATEGORY 0010 UNLESS NOTED

PREPARE FOUNDATION FOR ASPHALT

STA	-	STA	LOC	211.0100 PREPARATION OF FOUNDATION FOR ASPHALTIC PAVEMENT 7105-05-70 LS	211.0400 PREPARE FOUNDATION FOR ASPHALT SHOULDERS STA
100+90	-	477+76	STH 128	1	377
			TOTAL	**1**	**377**

ASPHALTIC SURFACE

STA		LOCATION	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0115 ASPHALTIC SURFACE DETOURS TON	465.0315 ASPHALTIC FLUMES SY
114+50	STH 128	PIPE	14	---	---
124+78	STH 128	PIPE	14	---	---
137+10	STH 128	PIPE	14	---	---
150+11	STH 128	PIPE	14	---	---
151+96	STH 128	PIPE	14	---	---
156+75	STH 128	PIPE	14	---	---
161+75	STH 128	RT	---	---	5
164+25	STH 128	PIPE	14	---	---
208+25	STH 128	RT	---	---	5
236+00	STH 128	RT	---	---	5
378+22	STH 128	PIPE	14	---	---
MINOR REPAIRS			40	---	---
PREP FOUNDATION/WEDGING			1000	---	---
DETOUR ROUTE-CTH CC (SCHOOL-STH 29)			---	640	---
TOTAL			**1152**	**640**	**15**

ASPHALTIC JOINT

CATEGORY	STATION - STATION	SPV.0105.01 MILLING AND REMOVING TEMPORARY JOINT LS	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF
0010	100+90 - 477+76	---	37,700
	PROJECT LIMITS	1	---
	TOTAL	**1**	**37,700**

HMA PAVEMENT

STA	-	STA	LOCATION		455.0605 TACK COAT GAL	460.6444 HMA PAVEMENT TYPE 4 MT 58-34 H TON
100+90	-	108+50	STH 128	LN	223	214
100+90	-	108+50	STH 128	SHLDR	61	117
108+50	-	148+50	STH 128	LN	1,173	1,124
108+50	-	148+50	STH 128	SHLDR	320	613
148+50	-	150+75	STH 128	LN	66	63
148+50	-	150+75	STH 128	SHLDR	24	46
150+75	-	156+50	STH 128	LN	169	162
150+75	-	156+50	STH 128	LT SHLDR	23	44
150+75	-	156+50	STH 128	RT SHLDR	8	15
156+50	-	161+75	STH 128	LN	154	148
156+50	-	161+75	STH 128	SHLDR	42	81
161+75	-	164+00	STH 128	LN	66	63
161+75	-	164+00	STH 128	LT SHLDR	9	17
161+75	-	164+00	STH 128	RT SHLDR	3	6
164+00	-	167+17	STH 128	LN	93	89
164+00	-	167+17	STH 128	SHLDR	25	49
167+17	-	167+75	STH 128	LN	17	16
167+17	-	167+75	STH 128	SHLDR	9	18
167+75	-	168+75	STH 128	LN	29	70
167+75	-	168+75	STH 128	SHLDR	16	31
168+75	-	169+78	STH 128	LN	30	29
168+75	-	169+78	STH 128	LT SHLDR	8	16
168+75	-	169+10	STH 128	RT SHLDR	3	5
169+78	-	178+50	STH 128	LN	256	245
169+10	-	178+50	STH 128	LT SHLDR	38	72
169+78	-	178+50	STH 128	RT SHLDR	35	67
178+50	-	200+00	STH 128	LN	631	604
178+50	-	200+00	STH 128	SHLDR	172	330
200+00	-	215+00	STH 128	LN	440	422
200+00	-	215+00	STH 128	SHLDR	120	230
215+00	-	248+00	STH 128	LN	968	928
215+00	-	248+00	STH 128	SHLDR	264	506
248+00	-	290+00	STH 128	LN	1,232	1,181
248+00	-	290+00	STH 128	SHLDR	0	322
290+00	-	322+00	STH 128	LN	939	900
290+00	-	322+00	STH 128	SHLDR	0	654
322+00	-	477+76	STH 128	LN	4,569	4,379
322+00	-	477+76	STH 128	SHLDR	0	1,194
PARTRIDGE AVE				INTER	0	42
CTH B				INTER	0	48
770 TH AVE				INTER	0	32
850 TH AVE WEST				INTER	0	8
850 TH AVE EAST				INTER	0	39
890 TH AVE EAST				INTER	0	26
890 TH AVE WEST				INTER	0	26
UNDISTRIBUTED (TAPERS)				INTER	0	12
					12,235	**15,303**

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

CULVERT PIPES

STA	#		CULVERT TYPE	CULVERT PIPE CORRUGATED STEEL 521.0115 15-INCH LF	521.0118 18-INCH LF	521.0130 30-INCH LF	521.0724 ARCHED 24"X18 LF	521.1015 AEW 15-INCH EACH	521.1018 AEW 18-INCH EACH	521.1024 AEW 24-INCH EACH	521.1030 AEW 30-INCH EACH	521.1224 AEW ARCHED 24"X18" EACH	522.0184 CULVERT PIPE REINF CONC CLASS III 84-INCH LF	522.1084 AEW FOR CULV PIPE REINF CONC 84-INCH EACH	520.8700 PIPE CLEANING EACH	MEASURE IN FT SPV.0090.01 DITCH RESTORATION LF LT	LF RT	* 650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH
101+00	100	24"X18"	CS ARCH	---	---	---	3	---	---	---	---	1	---	---	1	---	15	---
146+26	849	48"X84"	CONC BOX	---	---	---	---	---	---	---	---	---	---	---	1	---	15	---
168+25	850	84"	CONC	---	---	---	---	---	---	---	---	---	72	2	---	---	---	1
173+75	RT	DRIVE	CULVERT	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---
179+23	313	30"	CPCS	---	---	2	---	---	---	---	2	---	---	---	---	---	---	---
194+42	314	18"	CPCS	---	---	---	---	---	---	---	---	---	---	---	---	45	---	---
238+88	851	84"X120"	CONC BOX	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---
251+62	317	24"X18"	CS ARCH	---	---	---	---	---	---	---	---	2	---	---	---	---	---	---
272+65	318	72"X44"	CS ARCH	---	---	---	---	---	---	---	---	---	---	---	1	15	15	---
283+06	852	84"X120"	CONC BOX	---	---	---	---	---	---	---	---	---	---	---	1	15	15	---
321+22	322	18"	CPCS	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---
338+18	324	15"	CPCS	3	---	---	---	1	---	---	---	---	---	---	---	10	20	---
341+62	325	30"	CPCS	---	---	---	---	---	---	---	---	---	---	---	1	---	10	---
356+36	326	30"	CPCS	---	---	---	---	---	---	---	---	---	---	---	---	---	30	---
372+86	328	48"	CPCS	---	---	---	---	---	---	---	---	---	---	---	---	---	15	---
378+22	853	18"	CPCS	---	68	---	---	---	---	---	---	---	---	---	---	15	---	1
388+06	329	30"	CPCS	---	---	---	---	---	---	---	---	---	---	---	1	40	20	---
389+28	330	36"	CPCS	---	---	---	---	---	---	---	---	---	---	---	1	40	30	---
414+26	331	30"	CPCS	---	---	---	---	---	---	---	1	---	---	---	---	15	---	---
419+03	332	24"	CPCS	---	---	---	---	---	---	---	---	---	---	---	1	30	---	---
447+25	4078	24'	CPCS	---	---	---	---	---	---	2	---	---	---	---	---	---	---	---
467+41	4079	24"	CPCS	---	---	---	---	---	---	2	---	---	---	---	---	---	---	---
469+62	4080	30"	CPCS	---	---	3	---	---	---	---	2	---	---	---	---	20	10	---
			TOTAL	**3**	**68**	**5**	**3**	**1**	**1**	**4**	**5**	**3**	**72**	**2**	**10**	245	195	2*
																440		

* QUANTITY SHOWN FOR INFORMATION ONLY. TOTAL SHOWN IN CONSTRUCTION STAKING TABLE

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

BEAM GUARD

STA	-	STA	LOC	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0396 GUARDRAIL MOW STRIP ASPHALT SY	614.0345 STEEL PLATE BEAM GUARD SHORT RADIUS LF	614.0390 STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL EA	614.2300 MGS GUARDRAIL 3 LF	614.2330 MGS GUARDRAIL 3K LF	614.2340 MGS GUARDRAIL 3L LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
105+50		111+50	LT		230			600			1
111+50		113+50	LT		80				200		
113+50		114+50	LT		40			100			1
145+75		146+88	LT		40					113	1
146+88		162+62	LT		610				1,574		
162+62		169+25	LT		260			663			1
145+25		145+75	RT		20			50			1
145+75		146+88	RT		40					113	1
167+70		168+70	RT		40			100			2
226+00		237+75	LT		460			1,175			1
237+75		239+50	LT		70				175		
239+50		240+00	LT		20			50			1
237+81		238+31	RT		20			50			1
238+31		239+44	RT		40					113	1
282+00		282+50	RT		20			50			1
282+50		283+63	RT		40					113	1
282+50		283+63	LT		40					113	1
283+63		284+13	LT		20			50			1
294+95	-	312+75	RT	1,780	690	31	2				
		TOTAL		**1,780**	**2,780**	**31**	**2**	**2,888**	**1,949**	**565**	**16**

3

CONCRETE CURB AND GUTTER

STA	-	STA	LOC	601.0557 CONCRETE 36" CURB AND GUTTER 6-INCH SLOPED TYPE D LF	SPV.0090.02 CONCRETE CURB AND GUTTER CURE AND SEAL TREATMENT LF
150+75	-	156+50	RT	575	575
161+75	-	164+00	RT	225	225
208+25	-	215+00	RT	675	675
		TOTAL		**1,475**	**1,475**

STORM SEWER

STA		STR	TO STR	522.1015 APRON ENDWALLS REINFORCED CONCRETE 15-INCH EACH	522.1018 APRON ENDWALLS REINFORCED CONCRETE 18-INCH EACH	522.1024 FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1-GRATE EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	* 650.4000 CONSTRUCTION STAKING STORM SEWER EACH
114+50	RT	1	1A	---	---	---	---	42	---	---	1	---	1	1
114+50	LT	1A	--	---	1	---	---	---	---	---	---	---	---	1
124+78	RT	2	2A	---	---	---	---	---	48	---	1	---	1	1
124+78	LT	2A	--	---	---	1	---	---	---	---	---	---	---	1
137+10	RT	3	3A	---	---	---	---	---	44	---	1	---	1	1
137+10	LT	3A	--	---	---	1	---	---	---	---	---	---	---	1
150+50	RT	4	4A	---	---	---	42	---	---	---	1	---	1	1
150+50	LT	4A	--	1	---	---	---	---	---	---	---	---	---	1
152+25	RT	5	6	---	---	---	---	25	---	1	---	1	---	1
152+00	RT	6	6A	---	---	---	---	33	---	1	---	1	---	1
152+00	LT	6A	--	---	1	---	---	---	---	---	---	---	---	1
156+50	RT	7	7A	---	---	---	---	45	---	---	1	---	1	1
156+50	LT	7A	--	---	1	---	---	---	---	---	---	---	---	1
164+25	RT	8	8A	---	---	---	45	---	---	---	1	---	1	1
164+25	LT	8A	--	1	---	---	---	---	---	---	---	---	---	1
			TOTAL	**2**	**3**	**2**	**87**	**145**	**92**	**2**	**6**	**2**	**6**	15*

SEE CULVERT PIPES FOR CULVERT PIPE MARKER QUANTITES (PLACE AT EACH ENDWALL AND MS INLET)

* QUANTITY SHOWN FOR INFORMATION ONLY. TOTAL SHOWN IN CONSTRUCTION STAKING TABLE

MOBILIZATION

PROJECT	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH	619.1000 MOBILIZATION EACH
7105-05-70	1	1
TOTAL	1	1

ALL ITEMS CATEGORY 0010 UNLESS NOTED

SALVAGED TOPSOIL, EROSION MAT, FERTILIZER, AND SEEDING

STA	-	STA	LOC	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	627.0200 MULCHING SY	SPV.0120.01 WATER FOR SEEDED AREAS MGAL	628.7504 TEMP DITCH CHECK LF	628.2004 E MAT CLASS I TYPE B SY	628.2008 E MAT URBAN CLASS I TYPE B SY	628.2023 E MAT CLASS II TYPE B SY	628.2027 E MAT CLASS II TYPE C SY	628.2031 E MAT CLASS III TYPE A SY
104+50	-	151+75	STH 128 RT	10,700	6.7	289	---	240	180	---	---	10,700	---	---
151+75	-	155+00	STH 128 RT	950	0.6	26	---	21	54	---	---	---	---	950
155+00	-	167+00	STH 128 RT	2,600	1.6	70	---	58	---	---	---	2,600	---	---
167+00	-	169+50	STH 128 RT	630	0.4	17	---	14	---	630	---	---	---	---
169+50	-	208+00	STH 128 RT	4,370	2.8	118	4,368	98	---	---	---	---	---	---
208+00	-	216+00	STH 128 RT	1,020	0.6	27	---	23	---	---	---	1,020	---	---
216+00	-	232+00	STH 128 RT	1,930	1.2	52	1,930	43	---	---	---	---	---	---
232+00	-	240+00	STH 128 RT	1,000	0.6	27	---	22	36	1000	---	---	---	---
240+00		248+00	STH 128 RT	530	0.3	14	533	12	---	---	---	---	---	---
280+00	-	285+50	STH 128 RT	510	0.3	14	---	11	---	510	---	---	---	---
104+00	-	111+75	STH 128 LT	1,460	0.9	39	---	33	---	1460	---	---	---	---
111+75	-	114+00	STH 128 LT	1,700	1.1	46	---	38	---	---	---	---	---	1,700
114+00	-	146+00	STH 128 LT	5,010	3.2	135	5,008	113	---	---	---	---	---	---
146+00	-	160+50	STH 128 LT	3,030	1.9	82	---	68	---	---	---	---	3,030	---
160+50	-	162+50	STH 128 LT	710	0.5	19	---	16	---	---	---	---	---	710
162+50	-	169+50	STH 128 LT	1,090	0.7	29	---	24	---	---	1090	---	---	---
169+50	-	226+00	STH 128 LT	6,630	4.2	179	6,631	149	---	---	---	---	---	---
226+00	-	228+50	STH 128 LT	930	0.6	25	---	21	---	---	---	---	---	930
228+50	-	236+00	STH 128 LT	460	0.3	12	---	10	---	460	---	---	---	---
236+00	-	240+00	STH 128 LT	660	0.4	18	---	15	---	---	---	660	---	---
240+00		248+00	STH 128 LT	530	0.3	14	533	12	---	---	---	---	---	---
280+75	-	286+00	STH 128 LT	610	0.4	17	---	14	---	610	---	---	---	---
UNDISTRIBUTED				4,700	3.0	130	1,900	106	27	470	110	1,500	300	430
PIPE LOCATIONS				600	0.0	0.0	---	13	---	600		0		0
TOTAL				**52,360**	**33**	**1,399**	**20,903**	**1,174**	**297**	**5,740**	**1,200**	**16,480**	**3,330**	**4,720**

CULVERT PIPE MARKERS

STA	STRUCTOR CULVERT #	633.5200 MARKER CULVERT END EACH RT	LT
101+00	100	1	1
114+50	1/1A	1	1
124+78	2/2A	1	1
137+10	3/3A	1	1
146+26	849	1	1
150+50	4/4A	1	1
152+00	6/6A	1	1
152+25	5	---	1
156+50	7/7A	1	1
164+25	8/8A	1	1
168+20	850	1	1
179+23	313	1	1
194+42	314	1	1
224+36	315	1	1
232+16	316	1	1
238+88	851	1	1
251+62	317	1	1
272+65	318	1	1
283+06	852	1	1
296+16	319	1	1
306+18	320	1	1
312+03	321	1	1
321+22	322	1	1
330+14	323	---	1
338+18	324	1	1
341+62	325	1	1
356+36	326	1	1
368+36	327	1	1
372+86	328	1	1
378+22	853	1	1
388+06	329	1	1
389+28	330	1	1
414+26	331	1	1
419+03	332	1	1
435+59	4077	1	1
447+25	4078	1	1
467+41	4079	1	1
469+62	4080	1	1
		36	38
		74	

ALL ITEMS CATEGORY 0010 UNLESS NOTED

EROSION CONTROL ITEMS (PIPES)

STA	EX PIPE #	NEW STORM #	INLET PROTECTION 628.7005 TYPE A EACH	INLET PROTECTION 628.7010 TYPE B EACH	INLET PROTECTION 628.7015 TYPE C EACH	628.7555 CULVERT PIPE CHECKS EACH	RIP RAP 606.0100 LIGHT CY	RIP RAP 606.0200 MED CY	RIP RAP 606.0300 HEAVY CY	GEOTEXTILE FABRIC 645.0130 TYPE R SY	GEOTEXTILE FABRIC 645.0120 TYPE HR SY	* E MAT CLASS I TYPE B SY
101+00	100	-	---	---	---	3	---	---	---	---	---	44
114+50	308	1-1A	1	1	---	---	---	---	---	---	---	20
124+78	309	2-2A	1	1	---	---	---	---	---	---	---	56
137+10	310	3-3A	1	1	---	---	---	---	---	---	---	29
150+50	-	4-4A	1	1	---	---	---	---	---	---	---	---
152+00	311	6-6A	1	---	1	---	---	---	---	---	---	---
152+25	-	5	1	---	1	---	---	---	---	---	---	---
156+50	-	7-7A	1	1	---	---	---	---	---	---	---	---
156+72	312	-	---	---	---	2	---	---	---	---	---	---
164+25	-	8-8A	1	1	---	---	---	---	---	---	---	---
168+25	850	-	---	---	---	10	---	---	150	---	280	---
179+23	313	-	---	---	---	3	---	---	---	---	---	---
194+42	314	-	---	---	---	2	---	---	---	---	---	---
224+36	315	-	---	---	---	3	---	---	---	---	---	---
232+16	316	-	---	---	---	2	---	---	---	---	---	---
251+62	317	-	---	---	---	3	---	---	---	---	---	36
296+16	319	-	---	---	---	---	---	6.7	---	---	13.3	---
306+18	320	-	---	---	---	2	---	---	---	---	---	---
312+03	321	-	---	---	---	---	---	3.3	---	---	6.7	---
321+22	322	-	---	---	---	---	---	---	---	---	---	33
338+18	324	-	---	---	---	2	---	---	---	---	---	44
368+36	327	-	---	---	---	---	2.2	---	---	6.7	---	---
372+86	328	-	---	---	---	---	---	4.2	---	---	8.3	---
378+22	853	-	---	---	---	2	---	---	---	---	---	84
389+28	330	-	---	---	---	3	---	---	---	---	---	56
414+26	331	-	---	---	---	3	---	---	---	---	---	30
447+25	4078	-	---	---	---	3	---	---	---	---	---	50
467+41	4079	-	---	---	---	3	---	---	---	---	---	60
469+62	4080	-	---	---	---	3	---	---	---	---	---	60
PARTRIDGE	P1	-	---	---	---	2	---	---	---	---	---	---
UNDISTRIBUTED			2	2	1	11	---	---	---	---	---	---
TOTAL			**10**	**8**	**3**	**62**	**2.2**	**14.2**	**150.0**	**7**	**308**	600

* EROSON MAT TOTALS SHOWN ELSEWHERE *

SILT FENCE

STA	-	STA	LOC	628.1504 SILT FENCE FT	628.1520 SILT FENCE MAINT FT	628.7570 ROCK BAGS EACH
104+00	-	145+00	LT	4100	4100	45
155+00	-	193+00	LT	3850	3850	60
208+00	-	228+50	LT	2200	2200	---
236+00	-	240+00	LT	450	450	30
242+00	-	244+00	LT	250	250	---
251+50	-	252+50	LT	100	100	---
280+00	-	286+00	LT	600	600	---
280+00	-	286+00	RT	600	600	---
447+00	-	448+00	LT	100	100	15
467+00	-	468+00	LT	100	100	15
469+00	-	470+00	LT	100	100	15
UNDISTRUBUTED				2500	2500	40
TOTAL				**14950**	**14950**	**220**

EROSION CONTROL MOBILIZATION

PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.191 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
7105-05-70	6	3
TOTAL	6	3

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

TYPE II SIGNING

SIGN #	SIGN CODE	SHAPE T,O,R,D	SIGN SIZE IN	X	IN	MESSAGE	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS FLORECENT TYPE II REFLECTIVE F SF	POSTS WOOD 634.0616 4X6 INCH 16 FT EACH	634.0618 4X6 INCH 18 FT EACH	634.0620 4X6 INCH 20 FT EACH	634.0622 4X6 INCH 22 FT EACH
01 - 01	J4-1	R	24	X	36	NORTH 128	6.00	---	1	---	---	---
01 - 02	J2-2	R	48	X	57	EAST 72 LT ARROW / WEST 72 RT ARROW	19.00	---	---	1	---	---
01 - 03	D1-2	R	78	X	30	ARROW DOWNSVILLE / ELLSWORTH ARROW	16.25	---	---	2	---	---
01 - 04	R1-1	O	30	X	30	STOP	5.18	---	1	---	---	---
01 - 05	W1-6	R	48	X	24	NIGHT ARROW LEFT	---	8.00	1	---	---	---
01 - 06	D2-1	R	96	X	15	SPRING VALLEY 7	10.00	---	---	2	---	---
01 - 07	W3-1	D	36	X	36	STOP AHEAD	---	9.00	---	1	---	---
01 - 08	I2-3	R	60	X	24	ELMWOOD POPULATION	10.00	---	---	2	---	---
01 - 09	R10-64F	R	30	X	54	NO ENGINE BREAK / CITY LIMIT	11.25	---	---	1	---	---
01 - 10	W2-2	D	30	X	30	T INTERSECTION	---	6.25	---	1	---	---
01 - 11	J1-2	R	48	X	39	JCT 72 / END 128	13.00	---	---	1	---	---
01 - 12	W1-4L	D	36	X	36	TURN LT UP	---	9.00	---	1	---	---
01 - 13	W13-1	R	24	X	24	45 MPH	---	4.00	---	---	---	---
01 - 14	I55-56	R	30	X	36	ADOPT A HIGHWAY- ELMWOOD WEBELOS SCOUT PACK 170	7.50	---	---	1	---	---
02 - 01	W1-5L	D	30	X	30	S CURVE UP LT	---	6.25	---	1	---	---
02 - 02	W13-1	R	18	X	18	45 MPH	---	2.25	1	---	---	---
02 - 03	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 04	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 05	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 06	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 07	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 08	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 09	W1-6	R	48	X	24	NIGHT ARROW RIGHT	---	8.00	1	---	---	---
02 - 10	W1-6	R	48	X	24	NIGHT ARROW LEFT	---	8.00	1	---	---	---
02 - 11	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 12	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 13	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 14	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 15	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 16	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 17	W1-6	R	48	X	24	NIGHT ARROW RIGHT	---	8.00	1	---	---	---
02 - 18	W1-6	R	48	X	24	NIGHT ARROW LEFT	---	8.00	1	---	---	---
02 - 19	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 20	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 21	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 22	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 23	W1-6	R	48	X	24	NIGHT ARROW RIGHT	---	8.00	1	---	---	---
02 - 24	W1-6	R	48	X	24	NIGHT ARROW LEFT	---	8.00	1	---	---	---
02 - 25	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 26	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 27	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 28	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 29	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 30	W1-8	R	18	X	24	CHEVRON	---	3.00	1	---	---	---
02 - 31	W1-3R	D	36	X	36	CURVE UP RT	---	9.00	---	1		---
02 - 32	W13-1	R	24	X	24	30 MPH	---	4.00	---	---	---	---
CONTINUE NEXT PAGE						SUBTOTAL	98.18	171.75	32	15	0	0

ALL ITEMS CATEGORY 0010 UNLESS NOTED

TYPE II SIGNING CONTINUED

SIGN #	SIGN CODE	SHAPE T,O,R,D	SIGN SIZE IN		SIGN SIZE IN	MESSAGE	637.2210 SIGNS REFLECTIVE TYPE II SF	637.2230 SIGNS FLORECENT REFLECTIVE F TYPE II SF	POSTS WOOD 634.0616 4X6 INCH 16 FT EACH	634.0618 4X6 INCH 18 FT EACH	634.0620 4X6 INCH 20 FT EACH	634.0622 4X6 INCH 22 FT EACH
02 - 33	W1-6	R	48	X	24	NIGHT ARROW LT	---	8.00	---	1	---	---
02 - 34	W1-6	R	48	X	24	NIGHT ARROW RT	---	8.00	---	1	---	---
03 - 01	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
03 - 02	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
03 - 03	W1-6	R	48	X	24	NIGHT ARROW LT	---	8.00	---	1	---	---
03 - 04	W1-6	R	48	X	24	NIGHT ARROW RT	---	8.00	---	1	---	---
03 - 05	W1-6	R	48	X	24	NIGHT ARROW LT	---	8.00	---	1	---	---
03 - 06	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
03 - 07	W1-2R	D	30	X	30	CURVE RT	---	6.25	---	1	---	---
03 - 08	W13-1	R	18	X	18	45 MPH	---	2.25	---	---	---	---
03 - 09	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
04 - 01	J1-1	R	24	X	39	JCT COUNTY B	6.50	---	1	---	---	---
04 - 02	W2-1	D	30	X	30	CROSS INTERSECTION	---	6.25	---	1	---	---
04 - 03	I55-56	R	30	X	36	ADOPT A HIGHWAY- ELMWOOD WEBELOS SCOUT PACK 170	7.50	---	---	1	---	---
04 - 04	J4-1	R	24	X	36	SOUTH 128	6.00	---	---	1	---	---
04 - 05	W1-2L	D	30	X	30	CURVE LT	---	6.25	---	1	---	---
04 - 06	W13-1	R	18	X	18	45 MPH	---	2.25	---	---	---	---
04 - 07	J13-1	R	24	X	45	COUNTY B LT ARROW	7.50	---	1	---	---	---
04 - 08	R5-1	R	30	X	30	DO NOT ENTER	6.25	---	---	1	---	---
04 - 09	R1-1	O	30	X	30	STOP	5.18	---	---	1	---	---
04 - 10	R1-1	O	30	X	30	STOP	5.18	---	---	1	---	---
04 - 11	R1-1	O	30	X	30	STOP	5.18	---	---	1	---	---
04 - 12	J13-1	R	24	X	45	COUNTY B RT ARROW	7.50	---	1	---	---	---
04 - 13	J4-1	R	24	X	36	NORTH 128	6.00	---	1	---	---	---
04 - 14	I55-56	R	30	X	36	ADOPT A HIGHWAY - CADY CREEK CRICKETS 4-H	7.50	---	---	1	---	---
04 - 15	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
04 - 16	W2-1	D	30	X	30	CROSS INTERSECTION	---	6.25	---	1	---	---
04 - 17	J1-1	R	24	X	39	JCT COUNTY B	6.50	---	1	---	---	---
04 - 18	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
05 - 01	W7-1	T	30	X	30	HILL	3.13	---	---	1	---	---
05 - 02	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
05 - 03	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
05 - 04	S3-1	D	36	X	36	SCHOOL BUS STOP AHEAD	---	9.00	---	1	---	---
05 - 05	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
05 - 06	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
05 - 07	I55-56	R	30	X	36	ADOPT A HIGHWAY - CADY CREEK CRICKETS 4-H	7.50	---	---	1	---	---
05 - 08	R1-R	O	30	X	30	STOP	5.18	---	---	1	---	---
05 - 09	R1-R	O	30	X	30	STOP	5.18	---	---	1	---	---
05 - 10	R1-R	O	30	X	30	STOP	5.18	---	---	1	---	---
06 - 01	W2-1	D	30	X	30	CROSS INTERSECTION	---	6.25	---	1	---	---
06 - 02	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1		---
06 - 03	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
						SUBTOTAL	102.94	156.75	5	35	0	0

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ALL ITEMS CATEGORY 0010 UNLESS NOTED

TYPE II SIGNING CONTINUED

SIGN #	SIGN CODE	SHAPE T,O,R,D	SIGN SIZE IN	X	IN	MESSAGE	637.2210 SIGNS REFLECTIVE TYPE II SF	637.2230 SIGNS FLORECENT REFLECTIVE F TYPE II SF	POSTS WOOD 634.0616 4X6 INCH 16 FT EACH	634.0618 4X6 INCH 18 FT EACH	634.0620 4X6 INCH 20 FT EACH	634.0622 4X6 INCH 22 FT EACH
06 - 04	S3-1	D	36	X	36	SCHOOL BUS STOP AHEAD	---	9.00	---	1	---	---
06 - 05	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
06 - 06	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
06 - 07	I2-2	R	66	X	15	ST CROIX CO	6.88	---	---	2	---	---
06 - 08	R1-1	O	30	X	30	STOP	5.18	---	---	1	---	---
06 - 09	R1-1	O	30	X	30	STOP	5.18	---	---	1	---	---
06 - 10	I2-2	R	54	X	15	PIERCE CO	5.63	---	---	2	---	---
07 - 01	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
07 - 02	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
07 - 03	J1-1	R	24	X	39	JCT 29	6.50	---	1	---	---	---
07 - 04	W3-1	D	36	X	36	STOP AHEAD	---	9.00	---	1	---	---
07 - 05	W1-6	R	48	X	24	NIGHT ARROW LT	---	8.00	---	1	---	---
07 - 06	W1-6	R	48	X	24	NIGHT ARROW RT	---	8.00	---	1	---	---
07 - 07	J2-2	R	48	X	57	WEST 29 UP LT ARROW / EAST 29 UP RT ARROW	19.00	---	---	---	1	---
07 - 08	D2-1	R	66	X	15	ELMWOOD 7	6.88	---	---	2	---	---
07 - 09	D1-3	R	96	X	42	UP GLENWOOD / LT SPRING VALLEY / RT MENOMONIE	28.00	---	---	---	2	---
07 - 10	J4-1	R	24	X	36	SOUTH 128	6.00	---	1	---	---	---
07 - 11	J3-3	R	72	X	57	WEST 29 LT ARROW / NORTH 128 UP ARROW / EAST 29 RT ARROW	28.50	---	---	---	---	2
07 - 12	W12-D1	R	24	X	24	DOUBLE DOWN	---	4.00	1	---	---	---
07 - 13	R1-1	O	36	X	36	STOP	7.46	---	---	1	---	---
07 - 14	R1-1	O	36	X	36	STOP	7.46	---	---	1	---	---
07 - 15	R5-1	O	30	X	30	DO NOT ENTER	5.18	---	---	1	---	---
						SIGNS ALONG DETOUR ROUTE						
D1 - 01	J13-2	R	48	X	45	J ASSEMBLY G LT CC LT/RT	15.00	---	---	1	---	---
D1 - 02	R1-1	O	36	X	36	STOP	7.46	---	1	---	---	---
D1 - 03	J1-1	R	24	X	39	JCT CC	6.50	---	1	---	---	---
D1 - 04	W3-1	R	36	X	36	STOP AHEAD	---	9.00	---	1	---	---
D1 - 05	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D1 - 06	W2-2	R	30	X	30	INTERSECTION-LEFT	---	6.25	---	1	---	---
D1 - 07	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D1 - 08	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D1 - 09	W2-2	R	30	X	30	INTERSECTION-RIGHT	---	6.25	---	1	---	---
D1 - 10	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1		---
D1 - 11	W17-1	R	30	X	30	HILL	---	6.25	---	1	---	---
D1 - 12	W2-2	R	30	X	30	INTERSECTION-LEFT	---	6.25	---	1	---	---
D1 - 13	W1-2R	R	30	X	30	CURVE RT	---	6.25	---	1	---	---
D1 - 14	W1-4R	R	30	X	30	S CURVE UP RT	---	6.25	---	1	---	---
D1 - 15	W13-1	R	18	X	18	40 MPH	---	2.25	---	---	---	---
D1 - 16	W1-2L	R	30	X	30	CURVE LT	---	6.25	---	1	---	---
D1 - 17	W1-4R	R	30	X	30	S CURVE UP RT	---	6.25	---	1	---	---
D1 - 18	W13-1	R	18	X	18	40 MPH	---	2.25	---	---	---	---
D1 - 19	W1-2R	R	30	X	30	CURVE RT	---	6.25	---	1	---	---
D1 - 20	J1-2	R	48	X	39	J ASSEMBLY JCT 72 END G	13.00	---	1	---	---	---
D1 - 21	W3-1	R	36	X	36	STOP AHEAD	---	9.00	---	1	---	---
						SUBTOTAL	179.78	164.75	6	35	3	2

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ALL ITEMS CATEGORY 0010 UNLESS NOTED

TYPE II SIGNING CONTINUED

SIGN #	SIGN CODE	SHAPE T,O,R,D	SIGN SIZE IN	X	IN	MESSAGE	'637.2210 SIGNS REFLECTIVE TYPE II SF	637.2230 SIGNS FLORECENT REFLECTIVE F TYPE II SF	POSTS WOOD 634.0616 4X6 INCH 16 FT EACH	634.0618 4X6 INCH 18 FT EACH	634.0620 4X6 INCH 20 FT EACH	634.0622 4X6 INCH 22 FT EACH
						SIGNS ALONG DETOUR ROUTE						
D1 - 22	J13-1	R	24	X	45	72 LT RT	7.50	---	---	1	---	---
D1 - 23	R1-1	O	36	X	36	STOP	---	7.46	1	---	---	---
D1 - 24	R1-1	O	36	X	36	STOP	---	7.46	1	---	---	---
D2 - 01	J13-2	R	48	X	45	J ASSEMBLY G AHD LT CC AHD	15.00	---	---	1	---	---
D2 - 02	J1-1	R	24	X	39	JCT G	6.50	---	1	---	---	---
D2 - 03	R2-1	R	24	X	30	SPEED LIMIT 55	5.00	---	---	1	---	---
D2 - 04	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D2 - 05	R2-1	R	24	X	30	SPEED LIMIT 45	5.00	---	1	---	---	---
D2 - 06	W3-5	R	36	X	36	SPEED LIMIT 45 AHEAD	---	9.00	---	1	---	---
D2 - 07	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D2 - 08	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D2 - 09	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D2 - 10	W3-5	R	36	X	36	SPEED LIMIT 45 AHEAD	---	9.00	---	1	---	---
D2 - 11	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D2 - 12	R2-1	R	24	X	30	SPEED LIMIT 45	5.00		1	---	---	---
D2 - 13	R2-1	R	24	X	30	SPEED LIMIT 55	5.00	---	---	1	---	---
D2 - 14	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D2 - 15	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D2 - 16	W14-3	T	48	X	36	NO PASSING	---	6.00	---	1	---	---
D2 - 17	R2-1	R	24	X	30	SPEED LIMIT 55	5.00		1	---	---	---
D2 18	S5-2	R	24	X	30	END SCHOOL ZONE	5.00	---	---	1	---	---
D2 - 19	S1-1	P	36	X	36	SCHOOL ZONE	---	6.75	---	---	1	---
D2 20	S16-9P	R	30	X	18	AHEAD	---	3.75	---	---	---	---
D2 21	R2-6P	R	24	X	18	FINES HIGHER	3.00	---	---	---	---	---
D2 - 22	R2-1	R	24	X	30	SPEED LIMIT 45	5.00	---	1	---	---	---
D2 - 23	R7-1D	R	18	X	24	NO PARKING	3.00	---	1	---	---	---
D2 - 24	W3-5	R	36	X	36	SPEED LIMIT 45 AHEAD	---	9.00	---	1	---	---
D2 - 25	R2-1	R	24	X	30	SPEED LIMIT 45	5.00	---	1	---	---	---
D2 - 26	S1-1	P	36	X	36	SCHOOL ZONE	---	6.75	---	---	1	---
D2 27	S16-9P	R	30	X	18	AHEAD	---	3.75	---	---	---	---
D2 28	R2-6P	R	24	X	18	FINES HIGHER	3.00	---	---	---	---	---
D2 - 29	J1-2	R	48	X	39	JCT 29 END CC	13.00	---	---	1	---	---
D2 - 30	W1-4L	R	30	X	30	S CURVE UP LT	---	6.25	---	1	---	---
D2 - 31	W13-1	R	18	X	18	35 MPH	---	2	---	---	---	---
D2 - 32	W3-1	R	36	X	36	STOP AHEAD	---	9.00	---	1	---	---
D2 33	S5-2	R	24	X	30	END SCHOOL ZONE	5.00	---	---	1	---	---
D2 - 34	W1-6L	R	48	X	24	NIGHT ARROW	---	8.00	1	---	---	---
D2 - 35	R1-1	O	36	X	36	STOP	7.46	---	---	1	---	---
D2 - 36	J13-1	R	24	X	45	29 LT RT	7.50	---	---	1	---	---
						SUBTOTAL	110.96	136.41	10	22	2	0
						TOTALS	**491.85**	**629.66**	**53**	**107**	**5**	**2**

CONTINUE NEXT PAGE

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

REMOVING SIGNS

	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
J4-1	NORTH 128	1	1
J2-2	EAST 72 LT ARROW / WEST 72 RT ARROW	1	2
D1-2	ARROW DOWNSVILLE / ELLSWORTH ARROW	1	2
R1-1	STOP	1	1
W1-6	NIGHT ARROW	1	1
D2-1	SPRING VALLEY 7	1	2
W3-1	STOP AHEAD	1	1
I2-3	ELMWOOD POPULATION 341	1	2
W2-2	T INTERSECTION	1	1
J1-2	JCT 72 / END 128	1	1
W1-3L	CURVE UP LT UP	1	1
W13-1	45 MPH	1	---
I55-56	ADOPT A HIGHWAY	1	1
W1-5R	S CURVE UP LT	1	1
W13-1	45 MPH	1	---
W1-6	NIGHT ARROW	1	1
W1-6	NIGHT ARROW	1	1
W1-6	NIGHT ARROW	1	1
W1-6	NIGHT ARROW	1	1
W1-8	CHEVERON	1	1
W1-8L	CHEVERON	1	1
W1-8	CHEVERON	1	1
W1-8L	CHEVERON	1	1
W1-6	NIGHT ARROW	1	1
W1-6L	NIGHT ARROW	1	1
W5-52	TIGER BOARD	1	1
W5-52L	TIGER BOARD	1	1
W5-52	TIGER BOARD	1	1
W5-52L	TIGER BOARD	1	1
W1-8	CHEVERON	1	1
W1-8L	CHEVERON	1	1
W1-8	CHEVERON	1	1
W1-8L	CHEVERON	1	1
W1-4	CURVE UP RT	1	1
W13-1	45 MPH	1	---
W1-6	NIGHT ARROW LT	1	1
W1-6	NIGHT ARROW RT	1	1
W14-3	NO PASSING	1	1
W14-3	NO PASSING	1	1
W1-6	NIGHT ARROW LT	1	1
W1-6	NIGHT ARROW RT	1	1
W1-6	NIGHT ARROW LT	1	1
W14-3	NO PASSING	1	1
W1-2R	CURVE RT	1	1
W13-1	45 MPH	1	---
CONTINUE ON NEXT PAGE		SUBTOTAL 44	45

REMOVING SIGNS CONTINUED

	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
W14-3	NO PASSING	1	1
J1-1	JCT COUNTY B	1	1
W2-1	CROSS INTERSECTION	1	1
I55-56	ADOPT A HIGHWAY	1	1
J4-1	SOUTH 128	1	1
W1-2L	CURVE LT	1	1
W13-1	45 MPH	1	---
J13-1	COUNTY B LT ARROW	1	1
R5-1	DO NOT ENTER	1	---
R1-1	STOP	1	1
R1-1	STOP	1	1
R1-1	STOP	1	1
J13-1	COUNTY B RT ARROW	1	1
J4-1	NORTH 128	1	1
I55-56	ADOPT A HIGHWAY	1	1
W14-3	NO PASSING	1	---
W2-1	CROSS INTERSECTION	1	1
J1-1	JCT COUNTY B	1	1
W14-3	NO PASSING	1	1
W7-1	TRUCK GRADE	1	1
W14-3	NO PASSING	1	1
W14-3	NO PASSING	1	1
S3-1	SCHOOL BUS STOP AHEAD	1	1
W14-3	NO PASSING	1	1
W14-3	NO PASSING	1	1
I55-56	ADOPT A HIGHWAY	1	1
R1-R	STOP	1	1
R1-R	STOP	1	1
R1-R	STOP	1	1
W2-1	CROSS INTERSECTION	1	1
W14-3	NO PASSING	1	1
W14-3	NO PASSING	1	1
S3-1	SCHOOL BUS STOP AHEAD	1	1
W14-3	NO PASSING	1	1
W14-3	NO PASSING	1	1
I2-2	ST CROIX CO	1	2
R1-1	STOP	1	1
R1-1	STOP	1	1
I2-2	PIERCE CO	1	2
W14-3	NO PASSING	1	1
W14-3	NO PASSING	1	1
J1-1	JCT 29	1	1
W3-1	STOP AHEAD	1	1
J2-2	WEST 29 UP LT ARROW / EAST 29 UP RT ARROW	1	2
D1-3	UP GLENWOOD / LT SPRING VALLEY / RT MENOMONIE	1	2
CONTINUE ON NEXT PAGE		SUBTOTAL 45	46

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

REMOVING SIGNS CONTINUED

		SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
	J4-1	SOUTH 128	1	1
	D2-1	ELMWOOD 7	1	2
	J3-3	WEST 29 LT ARROW / NORTH 128 UP ARROW / EAST 29 RT ARROW	1	2
	W12-D1	DOUBLE DOWN	1	1
	R1-1	STOP	1	1
	R1-1	STOP	1	1
	R5-1	DO NOT ENTER	1	1
		STA 105-STA 108 DELINEATORS		11
		STA 127+50 B/W POSTS		4
		STA 151-STA 157 DELINEATORS AND B/W POSTS		13
		STA 226-228 DELINEATORS		4
		STA 239, STA 283 B/W MARKER POSTS		5
		STA 447, STA 467-471 DELINEATORS AND B/W MARKER POSTS		6
		DETOUR ROUTE SIGNS		
D1-01	CTH G	J ASSEMBLY	1	1
D1-02	CTH G	STOP	1	1
D1-03	CTH G	JCT CC	1	1
D1-04	CTH G	STOP AHEAD	1	1
D1-06	CTH G	INTERSECTION AHEAD	1	1
D1-09	CTH G	INTERSECTION AHEAD	1	1
D1-11	CTH G	HILL	1	1
D1-12	CTH G	HILL	1	1
D1-13	CTH G	CURVE RT	1	1
D1-14	CTH G	S CURVE UP RT	1	---
D1-15	CTH G	40 MPH	1	1
D1-16	CTH G	CURVE LT	1	1
D1-17	CTH G	S CURVE UP RT	1	1
D1-18	CTH G	40 MPH	1	---
D1-19	CTH G	CURVE RT	1	1
D1-20	CTH G	J ASSEMBLY	1	1
D1-21	CTH G	STOP AHEAD	1	1
D1-22	CTH G	72 LT RT	1	1
D1-23	CTH G	STOP	1	1
D1-24	CTH G	STOP	1	1
D2-01	CTH CC	J ASSEMBLY	1	1
D2-02	CTH CC	JCT G	1	1
D2-03	CTH CC	SPEED LIMIT 55	1	1
D2-05	CTH CC	SPEED LIMIT 45	1	1
D2-06	CTH CC	SPEED LIMIT 45 AHEAD	1	1
D2-10	CTH CC	SPEED LIMIT 45 AHEAD	1	1
D2-12	CTH CC	SPEED LIMIT 45	1	1
D2-13	CTH CC	SPEED LIMIT 55	1	1
D2-17	CTH CC	SPEED LIMIT 55	1	1

CONTINUE ON NEXT PAGE

			36	79

REMOVING SIGNS CONTINUED

SIGN NO.	LOC	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
		DETOUR ROUTE SIGNS		
D2-18	CTH CC	SCHOOL ZONE	1	1
D2-19	CTH CC	SPEED LIMIT 45	1	1
D2-20	CTH CC	NO PARKING	1	1
D2-21	CTH CC	SPEED LIMIT 45 AHEAD	1	1
D2-22	CTH CC	SPEED LIMIT 45	1	1
D2-23	CTH CC	SCHOOL ZONE	1	1
D2-24	CTH CC	J ASSEMBLY	1	1
D2-25	CTH CC	S CURVE UP LT	1	---
D2-26	CTH CC	30 MPH	1	1
D2-27	CTH CC	STOP AHEAD	1	1
D2-28	CTH CC	NIGHT ARROW	1	1
D2-29	CTH CC	STOP	1	1
D2-30	CTH CC	29 LT RT	1	1
		SUBTOTAL	13	12
		TOTALS	**139**	**182**

MOVING SIGNS

SIGN NO.	SIGN MESSAGE	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH
	DETOUR ROUTE SIGNS		
M1-01	NIGHT ARROW LT	1	1
M1-02	S CURVE / 50 MPH	1	1
M2-01	CURVE UP/RT / 35 MPH	1	1
M2-02	CURVE RT	1	1
M2-03	CURVE RT / 45 MPH	1	1
M3-01	CURVE LT / 45 MPH	1	1
M3-02	S CURVE / 40 MPH	1	1
M3-03	S CURVE / 40 MPH	1	1
	TOTALS	**8**	**8**

ALL ITEMS CATEGORY 0010 UNLESS NOTED

PAVEMENT MARKING EPOXY

STA	-	STA	646.0406 SAME DAY (YELLOW) 4-INCH YELLOW DASH LF	646.0406 SAME DAY (YELLOW) 4-INCH YELLOW CENTER LF	646.0106 (WHITE) 4-INCH WHITE EDGE LF	646.0106 (WHITE) 4-INCH WHITE DASH LF	646.0126 8-INCH WHITE LF	647.0566 STOP LINE 18-INCH LF
100+20	-	103+70	---	465	700	---	---	---
103+70	-	105+10	---	340	280	35	---	---
105+10	-	195+00	---	17,982	17,980	---	---	---
195+00	-	207+50	291	1,214	2,500	---	---	---
207+50	-	213+00	120	---	1,100	---	---	---
213+00	-	220+00	178	741	1,400	---	---	---
220+00	-	242+00	0	4,400	4,400	---	---	---
242+00	-	249+00	168	400	1,400	---	---	---
249+00	-	258+00	216	---	1,800	---	---	---
258+00	-	265+50	180	750	1,500	---	---	---
265+50	-	269+50	0	700	800	---	---	---
269+50	-	272+37	81	338	574	---	---	---
CTY B			0	336	200	---	---	---
272+37	-	276+00	87	362	726	---	---	---
276+00	-	301+00	624	---	5,000	---	---	---
301+00	-	309+00	192	800	1,600	---	---	---
309+00	-	330+00	0	4,000	4,200	---	---	---
328+50	-	332+00	---	---	---	88	---	---
330+00	-	335+00	120	500	1,000	---	100	---
335+00	-	342+00	168	---	1,400	---	---	---
342+00	-	350+00	36	1,500	1,600	---	---	---
350+00	-	360+00	0	2,000	2,000	---	---	---
360+00	-	367+00	181	753	1,400	---	---	---
367+00	-	372+50	121	---	1,100	---	---	---
372+50	-	378+00	130	542	1,100	---	---	---
378+00	-	381+00	72	300	600	---	---	---
381+00	-	383+00	0	400	400	---	---	---
383+00	-	389+50	156	652	1,300	---	---	---
389+50	-	396+00	155	---	1,300	---	---	---
396+00	-	402+00	144	600	1,200	---	---	---
402+00	-	412+00	240	1,000	2,000	---	---	---
412+00	-	422+50	252	---	2,100	---	---	---
422+50	-	430+80	199	830	1,660	---	---	---
430+81	-	439+50	0	1,738	1,738	---	---	---
439+50	-	448+00	200	832	1,700	---	---	---
448+00	-	450+00	112	---	400	---	---	---
450+00	-	460+50	205	853	2,100	---	---	---
430+80	-	477+60	0	3,352	9,360	---	90	30
TOTAL			**53,308**		**81,741**		**190**	**30**

PAVEMENT MARKING PAINT

STA	-	STA	646.0103 (YELLOW) 4-INCH CENTERLINE LF	646.0103 (WHITE) 4-INCH EDGE LINE LF	647.0563 STOP LINE 18-INCH LF
DETOUR ROUTE, CTH G			38,400	48,000	45
DETOUR ROUTE, CTH CC			35,840	44,800	30
CTH CC AFTER REPAVING			5,200	5,200	---
TOTAL			**177,440**		**75**

TEMPORARY PAVEMENT MARKING

STA	-	STA		649.0402 TEMPORARY PAVEMENT MARKING PAINT 4-INCH LF
100+90	-	477+76	MILL	75000
		TOTAL		**75000**

LOCATE NO PASSING ZONE

STA	-	STA		648.0100 LOCATING NO-PASSING ZONE MILES
100+90	-	477+76		7.1
DETOUR		ROUTE		8.7
		TOTAL		**15.8**

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

CONSTRUCTION STAKING

	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9910 CONSTRUCTION STAKING SUPPLIMENTAL CONTROL LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
	15	15310	15310	1475	2	37686	1	15310
	---	---	---	---	---	---	---	---
TOTAL	**15**	**15310**	**15310**	**1475**	**2**	**37686**	**1**	**15310**

MONUMENTS

LOCATION	621.0100 LANDMARK REFERENCE MONUMENTS EACH	SPV.0060.01 REESTABLISH SECTION CORNER MONUMENTS EACH
SECTION CORNER 9-10-16-15	4	1
QUARTER CORNER 9-10	4	1
SECTION CORNER 34-3-9-10	4	1
QUARTER CORNER 4-3	4	1
SECTION CORNER 33-34-4-3	4	1
TOTALS	**20**	**5**

FIELD OFFICE

LOCATION	642.5201 FIELD OFFICE TYPE C EACH
PROJECT	1
TOTAL	**1**

SAWING

STATION	DISCRIPTION	LOCATION	690.0150 SAWING ASPHALT LF
100+90	BEGIN OF PROJ	STH 128	43
114+50	PIPE	STH 128	44
124+78	PIPE	STH 128	44
137+10	PIPE	STH 128	44
150+11	PIPE	STH 128	44
151+96	PIPE	STH 128	44
156+75	PIPE	STH 128	44
164+25	PIPE	STH 128	44
167+75	BOX CULVERT BEGIN	STH 128	22
168+75	BOX CULVERT END	STH 128	22
295+00-313+00	SHOULDER	STH 128	1800
378+22	PIPE	STH 128	44
477+76	END OF PROJ	STH 128	155
	COUNTY B	STH128	32
	770TH AVE	STH128	25
	850TH AVE WEST	STH128	20
	850TH AVE EAST	STH128	23
	890TH AVE WEST	STH128	21
	890TH AVE EAST	STH128	21
	PARTRIDGE AVE	PARTRIDGE	25
		TOTAL	**2561**

3

TRAFFIC CONTROL DEVICES

LOCATION	SERVICE DAYS	643.0100 TRAFFIC CONTROL PROJECT EACH	643.0300 TC DRUMS IN SERVICE	643.0300 TC DRUMS DAYS	643.0420 BARRICADES TYPE III IN SERVICE	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A IN SERVICE	643.0705 WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C IN SERVICE	643.0715 WARNING LIGHTS TYPE C DAYS	643.0900 TC SIGNS IN SERVICE	643.0900 TC SIGNS DAYS	643.0920 COVERING SIGNS TYPE II CYCLES	643.0920 COVERING SIGNS TYPE II #	643.0920 COVERING SIGNS TYPE II EACH	643.1000 TC SIGNS FIXED MESSAGE SF	643.1050 TRAFFIC CONTROL SIGNS PCMS IN SERVICE	643.1050 TRAFFIC CONTROL SIGNS PCMS SVC DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS	643.2000 TRAFFIC CONTROL DETOUR PROJECT EACH	643.3000 TRAFFIC CONTROL DETOUR SIGNS IN SERVICE	643.3000 TRAFFIC CONTROL DETOUR SIGNS DAYS
PROJECT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		---	---	---	---
ROAD OPEN TO TRAFFIC (CLEARING)	16	---	25	400	---	---	---	---	50	800	23	368	---	---	---	---	2	7	14	---	---	---
ROAD CLOSED TO TRAFFIC (DETOUR)	89	---	50	4450	17	1513	34	3026	12	1068	45	4,005	1	12	12	9.38	2	7	14	1	189	16821
BARRICADES AT PIPE CROSSING LOCATION	30	---	0	0	8	240	16	480	---	---	2	60	---	---	---	---	---		---	---	---	---
UNDISTRIBUTED	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		---	---	---	---
TOTAL		**1**		**4,850**		**1,753**		**3,506**		**1,868**		**4,433**			**12**	**9.38**			**28**	**1**		**16,821**

ALL ITEMS CATEGORY 0010 UNLESS NOTED



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT NO. 7105-05-20
ELMWOOD - STH 64
S.T.H. "72" - S.T.H. "29"
S.T.H. "128"
PIERCE COUNTY

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT

SECTION CORNER (23 24 16 15)
NOTATION FOR COMBUSTIBLE FLUIDS (CAUTION)
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES (CAUTION)
ELECTRIC POLE
TELEPHONE POLE
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	○
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	⧓	⌀

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)

BRIDGE

R/W MONUMENT ●
NON-MONUMENTED R/W POINT ○
FOUND IRON PIN IP
VALVE (GAS, WATER, ETC.) ⌀ (TYPE)
SIGN ▯ SIGN
OFF-PREMISE SIGN (I-25) SIGN

PARCEL NUMBER (25)
UTILITY NUMBER (40)
EXISTING MONUMENT NUMBER (***)
R/W BOUNDARY POINT NUMBER (***)

CONVENTIONAL ABBREVIATIONS

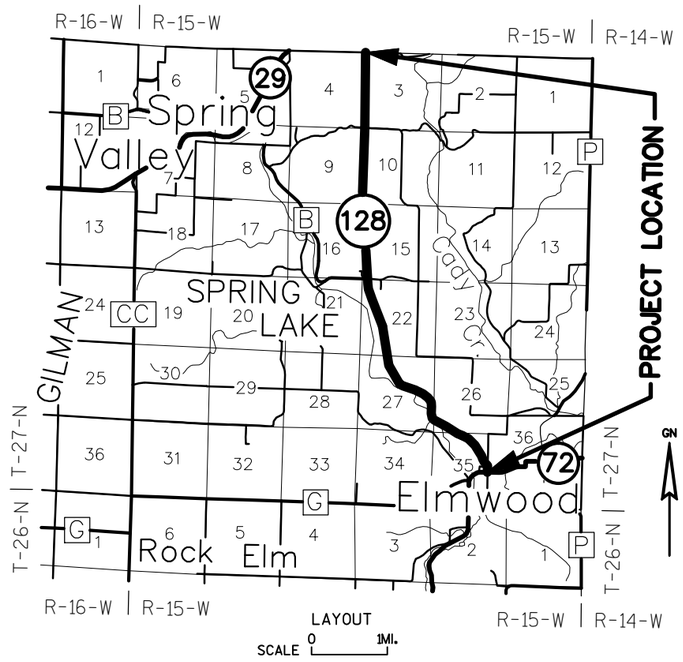
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC
CONCRETE	CONC	SEPTIC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

CURVE DATA

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

CONVENTIONAL UTILITY SYMBOLS

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



THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 7105-05-20

NOTES:

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

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

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

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

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

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

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

EXISTING ACCESS CONTROL ALONG S.T.H. 128 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT 7105-5-21

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR S.T.H. 128 ESTABLISHED FROM PREVIOUS PROJECT 7105-5-21

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7105-05-20 - 4.01
SHEET 2 OF 2
AMENDMENT NO: 84

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\SURVEY\TPP\DRAWING\TPP-STH128_7105-05-01_C3D2014.DWG
APPRAISAL PLAT DATE :
PLOT DATE : January 6, 2016
PLOT BY : KOLBY SCHERTZ
PLOT NAME : STH 128

TRANSPORTATION PROJECT PLAT NO: 7105-05-20 - 4.01

LOCATED IN PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 AND THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4; ALL IN SECTION 35, TOWNSHIP 27 NORTH, RANGE 15 WEST, TOWN OF SPRING LAKE, PIERCE COUNTY, WISCONSIN

RELOCATION ORDER STH 128, ELMWOOD - STH 64 (STH 72 TO STH 29)

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

562405
PIERCE COUNTY REGISTER OF DEEDS VICKI J NELSON
PAGES: 2
PLAT/BRNS
RECORDING FEE: 25.00
01/12/2016 08:00AM
PRC-C 261

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7105-05-20 - 4.01
SHEET 1 OF 2
AMENDMENT NO:___

SEE SHEET 4.02

115+42.73=
Y=335428.711
X=566578.579

40 LINE

DOC#223545

WISCONSIN GAS EASEMENT DOC#184265

WISCONSIN GAS LLC d/b/a WE ENERGIES

TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK

TOWN OF

SPRING LAKE

S.T.H. "128"

P.L.

FND MONUMENT
County Coordinates
Y = 336707.118
X = 565834.333
SEC 106 T 27 N R 15 W

FND MONUMENT
County Coordinates
Y = 336725.319
X = 568438.399
SEC 105 T 27 N R 15 W

SECTION LINE

QUARTER LINE

FND MONUMENT
County Coordinates
Y = 331539.540
X = 565902.983
SEC 100 T 27 N R 15 W / T 26 N R 15 W

DOC#215053

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
104-102	S 89°25'31" E	5192.70'
102-105	N 00°43'57" W	2599.13'
105-106	S 89°35'58" W	2604.13'
106-100	S 00°45'40" E	5168.03'
102-149	N 89°25'31" W	1293.99'

CURVE 166-167
L = 269.11'
LC = 267.78'
LCB = S28° 18' 45"E
R = 780.00'

S.T.H. 128 R/L CURVE DATA
CURVE C6
PI = 112+70.64
Y = 335212.898
X = 566748.385
Δ = 19°46'05"
D = 7°54'10"
T = 126.32'
L = 250.14'
R = 725.00'
LCH = 248.90'
LCB = N28°16'45"W
PC = 111+44.31
PT = 113+94.45

CURVE 161-162
L = 205.29'
LC = 204.27'
LCB = N28° 18' 45"W
R = 595.00'

CURVE 167-168
L = 113.06'
LC = 113.00'
LCB = S21° 41' 01"E
R = 995.00'

CURVE 169-170
L = 93.33'
LC = 93.30'
LCB = S27° 40' 02"E
R = 980.00'

CURVE 171-172
L = 32.35'
LC = 32.35'
LCB = S31° 19' 38"E
R = 995.00'

CURVE 172-173
L = 162.13'
LC = 162.12'
LCB = S33° 34' 09"E
R = 3545.00'

CURVE 173-174
L = 101.10'
LC = 100.84'
LCB = N42° 01' 50"W
R = 405.00'

CURVE 175-176
L = 17.30'
LC = 17.30'
LCB = N47° 04' 54"W
R = 236.00'

CURVE 156-157
L = 97.29'
LC = 97.14'
LCB = N43° 39' 46"W
R = 505.00'

CURVE 154-155
L = 97.29'
LC = 95.23'
LCB = N28° 41' 18"W
R = 136.00'

CURVE 152-153
L = 28.70'
LC = 28.70'
LCB = N6° 46' 11"W
R = 577.00'

CURVE 158-159
L = 167.62'
LC = 167.61'
LCB = N33° 34' 09"W
R = 3665.00'

CURVE 159-160
L = 269.15'
LC = 268.49'
LCB = N25° 20' 37"W
R = 1115.00'

S.T.H. 128 R/L CURVE DATA
CURVE C5
PI = 110+18.20
Y = 334972.235
X = 566828.576
Δ = 13°49'50"
D = 5°27'24"
T = 127.35'
L = 253.46'
R = 1050.00'
LCH = 252.84'
LCB = N25°20'37"W
PC = 108+90.86
PT = 111+44.31

S.T.H. 128 R/L CURVE DATA
CURVE C4
PI = 108+08.55
Y = 334794.914
X = 566940.495
Δ = 2°37'14"
D = 1°35'30"
T = 82.34'
L = 164.65'
R = 3600.00'
LCH = 164.64'
LCB = N33°34'09"W
PC = 107+26.21
PT = 108+90.86

S.T.H. 128 R/L CURVE DATA
CURVE C2
PI = 104+82.56
Y = 334554.288
X = 567166.154
Δ = 40°59'14"
D = 31°39'18"
T = 67.65'
L = 129.48'
R = 181.00'
LCH = 126.74'
LCB = N28°41'18"W
PC = 104+14.91
PT = 105+44.39

S.T.H. 128 R/L CURVE DATA
CURVE C3
PI = 106+69.09
Y = 334680.020
X = 567020.584
Δ = 14°18'09"
D = 12°27'20"
T = 57.71'
L = 114.83'
R = 460.00'
LCH = 114.53'
LCB = N42°01'50"W
PC = 106+11.38
PT = 107+26.21

S.T.H. 128 R/L CURVE DATA
CURVE C1
PI = 103+66.24
Y = 334438.946
X = 567182.764
Δ = 9°09'47"
D = 9°23'34"
T = 48.88'
L = 97.55'
R = 610.00'
LCH = 97.45'
LCB = N3°36'48"W
PC = 103+17.36
PT = 104+14.91

STATION & OFFSET TABLE TO S.T.H. "128" ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
150	100+66.14	71.56' LT	334140.097	567106.142
151	101+51.94	54.66' LT	334225.598	567124.490
152	103+84.57	33.00' LT	334454.125	567146.517
153	104+14.91	33.00' LT	334482.625	567143.133
154	104+14.91	45.00' LT	334480.914	567131.256
155	105+44.39	45.00' LT	334564.452	567085.542
156	106+11.38	45.00' LT	334608.239	567034.847
157	107+00.00	45.00' LT	334678.512	566967.780
158	107+26.21	65.00' LT	334690.196	566934.257
159	108+90.86	65.00' LT	334829.851	566841.579
160	111+44.31	65.00' LT	335072.504	566726.652
161	111+44.31	130.00' LT	335051.956	566664.985
162	113+94.45	130.00' LT	335231.789	566568.105
163	113+94.45	45.00' LT	335284.350	566634.906
164	115+78.25	45.00' LT	335428.798	566521.251
165	114+99.32	55.00' RT	335428.604	566648.647
166	113+94.45	55.00' RT	335346.186	566713.496
167	111+44.31	55.00' RT	335110.438	566840.498
168	110+25.00	55.00' RT	335005.432	566882.251
169	110+25.00	70.00' RT	335011.756	566895.852
170	109+25.00	70.00' RT	334929.126	566939.174
171	109+25.00	55.00' RT	334921.537	566926.236
172	108+90.86	55.00' RT	334893.900	566943.057
173	107+26.21	55.00' RT	334758.818	567032.700
174	106+11.38	55.00' RT	334683.918	567100.213
175	105+44.39	55.00' RT	334640.131	567150.908
176	105+31.12	55.00' RT	334628.352	567163.576
177	105+10.80	33.00' RT	334594.886	567164.012
178	104+36.39	84.93' RT	334530.337	567253.524
179	103+93.49	44.18' RT	334470.831	567222.398
180	103+46.98	38.09' RT	334420.899	567219.793
181	101+14.17	39.07' RT	334186.256	567217.567
182	100+67.33	102.21' RT	334138.354	567279.903

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
149-150	N 89°25'31" W	71.56'
150-151	N 12°06'42" E	87.45'
151-152	N 5°30'19" E	229.59'
152-153	CURVE	
153-154	S 81°48'19" W	12.00'
154-155	CURVE	
155-156	N 49°10'55" W	66.99'
156-157	CURVE	
157-158	N 70°47'04" W	35.50'
158-159	CURVE	
159-160	CURVE	
160-161	S 71°34'18" W	65.00'
161-162	CURVE	
162-163	N 51°48'13" E	85.00'
163-164	N 38°11'47" W	183.80'
164-165	S 89°54'47" E	127.40'
165-166	S 38°11'47" E	104.87'
166-167	CURVE	
167-168	CURVE	
168-169	N 65°03'40" E	15.00'
169-170	CURVE	
170-171	S 59°36'15" E	15.00'
171-172	CURVE	
172-173	CURVE	
173-174	CURVE	
174-175	S 49°10'55" E	66.99'
175-176	CURVE	
176-177	S 0°44'48" E	33.47'
177-178	S 54°12'13" E	110.36'
178-179	S 27°36'46" W	67.16'
179-180	S 2°59'10" W	50.00'
180-181	S 0°32'37" W	234.65'
181-182	S 52°27'34" W	78.62'
182-149	N 89°25'31" W	102.21'

UTILITY EASEMENT TABLE			
UTILITY #	PARCEL #	INTEREST DESCRIPTION	RECORDING DATA
102	2	EASEMENT	DOC#184265
103	1	PIPELINE EASEMENT	DOC#223380

UTILITY INTERESTS REQUIRED		
UTILITY #	OWNER(S)	INTEREST REQUIRED
102	WISCONSIN GAS LLC d/b/a WE ENERGIES	RELEASE OF RIGHTS
103	NORTHERN NATURAL GAS COMPANY	RELEASE OF RIGHTS

SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT						
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W REQUIRED					TLE S.F. REQUIRED
			NEW		EXISTING		TOTAL	
			S.F.	ACRES	S.F.	ACRES	S.F.	ACRES
1	KENNETH DELONG	FEE	-	1.47	-	-	-	1.47	-
2	NORTHERN NATURAL GAS CO.	FEE	374	-	-	-	374	-	-

NOT TO SCALE
PROJECT LOCATION
SHEET LOCATION
Spring Valley
SPRING LAKE
Elmwood
Rock Elm
GILMAN
T-27-N
T-26-N
R-16-W
R-15-W
R-14-W

GRID NORTH

SCALE, FEET
0 50 100

TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK

NORTHERN STATES POWER COMPANY d/b/a XCEL ENERGY

NOTE: SET CHISELED "X"

NOTE: SET PK NAIL

HOUSE
SHED
TRAILER HOUSE

EXISTING R/W VARIES

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
S.T.H. 128	BY WIS. STATUTE 82.31 (2)	-	-	-
S.T.H. 128	7105-5-21	-	-	1977

FND MONUMENT
County Coordinates
Y = 334178.485
X = 563279.182
SEC 104 T 27 N R 15 W

FND MONUMENT
County Coordinates
Y = 334126.400
X = 568471.625
SEC 102 T 27 N R 15 W

BEGIN PROJECT 7105-05-23
STA. 100+66.63, 0.00' RT. (S.T.H. 128)
Y = 334139.379
X = 567177.701

QUEST
Civil Engineers, LLC
320 West Grand Ave, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

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

SIGNATURE: Kolby Schertz DATE: 1/06/2016
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

WISCONSIN KOLBY F. SCHERTZ S-2862 SEYMOUR WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION
SIGNATURE: Michael Piller DATE: 1/06/2016
PRINT NAME: MICHAEL PILLER

7105-05-20 - 4.01
PLOT SCALE : 1" = 50'
PLOT NAME : STH 128
PLOT BY : KOLBY SCHERTZ
PLOT DATE : January 6, 2016
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\SURVEY\TPP\DRAWING\TPP-STH128_7105-05-01_C3D2014.DWG
APPRAISAL PLAT DATE : ----------

TRANSPORTATION PROJECT PLAT NO: 7105-05-20 - 4.02

LOCATED IN PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 27 NORTH, RANGE 15 WEST, TOWN OF SPRING LAKE, PIERCE COUNTY, WISCONSIN

RELOCATION ORDER STH 128, ELMWOOD - STH 64 (STH 72 TO STH 29)

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

562616

PIERCE COUNTY
REGISTER OF DEEDS
VICKI J NELSON

PAGES: 1
PLATTRANS
RECORDING FEE: 25.00

01/26/2016 08:00AM
PROC 262

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7105-05-20 - 4.02
AMENDMENT NO:___

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
S.T.H. 128	BY WIS. STATUTE 82.31 (2)	-	-	-

NOT TO SCALE

PROJECT LOCATION

SHEET LOCATION

FND MONUMENT
County Coordinates
Y = 336707.118
X = 565834.333

FND MONUMENT
County Coordinates
Y = 336725.319
X = 568438.399

FND MONUMENT
County Coordinates
Y = 334178.485
X = 563279.182

FND MONUMENT
County Coordinates
Y = 334126.400
X = 568471.625

FND MONUMENT
County Coordinates
Y = 331539.540
X = 565902.983

SECTION LINE
QUARTER LINE
SECTION LINE
QUARTER LINE
QUARTER LINE

SEE SHEET 4.03

SEE SHEET 4.01

TOWN OF SPRING LAKE

S.T.H. "128"

NW-NE SEC-35

DOC#518963

DOC#518963

TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK

TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK

WISCONSIN GAS EASEMENT DOC#184265

WISCONSIN GAS LLC d/b/a WE ENERGIES

DOC#223545

SHED

40 LINE

40 LINE

P.L.

P.L.

P.L.

S.T.H. 128 R/L CURVE DATA
CURVE C11
PI = 127+66.60
Y = 336373.254
X = 565819.562
Δ = 11°30'57"
D = 5°27'24"
T = 105.88'
L = 211.04'
R = 1050.00'
LCH = 210.68'
LCB = N56°07'46"W
PC = 125+60.72
PT = 128+71.76

S.T.H. 128 R/L CURVE DATA
CURVE C10
PI = 125+83.72
Y = 336256.546
X = 565960.495
Δ = 5°11'39"
D = 3°22'13"
T = 77.11'
L = 154.11'
R = 1700.00'
LCH = 154.06'
LCB = N47°46'29"W
PC = 125+06.61
PT = 126+60.72

S.T.H. 128 R/L CURVE DATA
CURVE C9
PI = 123+30.38
Y = 336077.881
X = 566140.272
Δ = 3°59'11"
D = 1°25'57"
T = 139.21'
L = 278.30'
R = 4000.00'
LCH = 278.24'
LCB = N43°11'04"W
PC = 121+91.17
PT = 124+69.47

S.T.H. 128 R/L CURVE DATA
CURVE C8
PI = 120+49.35
Y = 335864.342
X = 566327.154
Δ = 19°18'15"
D = 6°44'26"
T = 144.56'
L = 286.38'
R = 850.00'
LCH = 285.03'
LCB = N31°32'21"W
PC = 119+04.79
PT = 121+91.17

S.T.H. 128 R/L CURVE DATA
CURVE C7
PI = 117+95.24
Y = 335627.152
X = 566422.442
Δ = 16°18'33"
D = 7°23'35"
T = 111.05'
L = 220.60'
R = 775.00'
LCH = 219.86'
LCB = N30°02'30"W
PC = 116+84.18
PT = 119+04.79

CURVE 208-209
L = 121.98'
LC = 121.92'
LCB = S53° 32' 03"E
R = 1105.00'

CURVE 209-210
L = 159.10'
LC = 159.04'
LCB = S47° 46' 29"E
R = 1755.00'

CURVE 206-207
L = 37.53'
LC = 37.53'
LCB = N51° 26' 49"W
R = 1000.00'

CURVE 205-206
L = 149.58'
LC = 149.53'
LCB = N47° 46' 29"W
R = 1650.00'

CURVE 211-212
L = 282.13'
LC = 282.07'
LCB = S43° 11' 04"E
R = 4055.00'

CURVE 203-204
L = 274.82'
LC = 274.77'
LCB = N43° 11' 04"W
R = 3950.00'

CURVE 212-213
L = 304.91'
LC = 303.47'
LCB = S31° 32' 21"E
R = 905.00'

CURVE 201-202
L = 271.22'
LC = 269.84'
LCB = N31° 32' 21"W
R = 805.00'

CURVE 214-215
L = 196.41'
LC = 195.75'
LCB = S30° 02' 30"E
R = 690.00'

CURVE 200-201
L = 233.41'
LC = 232.63'
LCB = N30° 02' 30"W
R = 820.00'

127+38.98=
Y=336353.346
X=565839.032

PCC: 126+60.72

PCC: 125+06.61

PT: 124+69.47

PCC: 121+91.17

PRC: 119+04.79

PC: 116+84.18

115+42.73=
Y=335428.711
X=566578.579

R/L= N45°10'39"W 314.14'

R/L= N38°11'47"W 289.73'

UTILITY INTERESTS REQUIRED		
UTILITY #	OWNER(S)	INTEREST REQUIRED
100	TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK	RELEASE OF RIGHTS
102	WISCONSIN GAS LLC d/b/a WE ENERGIES	RELEASE OF RIGHTS
103	NORTHERN NATURAL GAS COMPANY	RELEASE OF RIGHTS

UTILITY EASEMENT TABLE			
UTILITY #	PARCEL #	INTEREST DESCRIPTION	RECORDING DATA
100	3	NO EASEMENT OF RECORD	---
102	2	EASEMENT	DOC#184265
103	3	EASEMENT (S)	DOC#223428 DOC#223882 DOC#463148

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
100-106	N 00°45'40" W	5168.03'
106-105	N 89°35'58" E	2604.13'
105-102	S 00°43'57" E	2599.13'
102-104	N 89°25'31" W	5192.70'
106-STA127+38.98	S 00°45'40" E	353.80'
106-108	S 00°45'40" E	286.60'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
207-208	N 0°45'40" W	129.95'
208-209	CURVE	
209-210	CURVE	
210-211	S 45°10'39" E	37.14'
211-212	CURVE	
212-213	CURVE	
213-214	N 68°06'46" E	30.00'
214-215	CURVE	
215-216	S 51°48'13" W	30.00'
216-165	S 38°11'47" E	184.86'
165-164	N 89°54'47" W	127.40'
164-200	N 38°11'47" W	105.93'
200-201	CURVE	
201-202	CURVE	
202-203	S 48°48'31" W	5.00'
203-204	CURVE	
204-205	N 45°10'39" W	37.14'
205-206	CURVE	
206-207	CURVE	

STATION & OFFSET TABLE TO S.T.H. "128" ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
164	115+78.25	45.00' LT	335428.798	566521.251
165	114+99.32	55.00' RT	335428.604	566648.647
200	116+84.18	45.00' LT	335512.050	566455.747
201	119+04.79	45.00' LT	335713.425	566339.287
202	121+91.17	45.00' LT	335943.491	566198.086
203	121+91.17	50.00' LT	335940.198	566194.324
204	124+69.47	50.00' LT	336140.544	566006.288
205	125+06.61	50.00' LT	336166.727	565979.942
206	126+60.72	50.00' LT	336267.216	565869.217
207	127+00.14	50.00' LT	336290.607	565839.866
208	127+76.63	55.00' RT	336420.548	565838.140
209	126+60.72	55.00' RT	336348.087	565936.186
210	125+06.61	55.00' RT	336241.203	566053.958
211	124+69.47	55.00' RT	336215.020	566080.304
212	121+91.17	55.00' RT	336009.348	566273.338
213	119+04.79	55.00' RT	335750.703	566432.079
214	119+04.79	85.00' RT	335761.886	566459.917
215	116+84.18	85.00' RT	335592.437	566557.913
216	116+84.18	55.00' RT	335573.886	566534.336

SCHEDULE OF LANDS AND INTERESTS REQUIRED			OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT						
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W REQUIRED						TLE S.F. REQUIRED
			NEW		EXISTING		TOTAL		
			S.F.	ACRES	S.F.	ACRES	S.F.	ACRES	
2	NORTHERN NATURAL GAS CO.	FEE	785	-	-	-	785	-	-
3	BEYER VALLEY FARM, LLC	FEE	-	1.13	-	-	-	1.13	-

NOTE: FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NUMBER 562405 IN THE OFFICE OF THE PIERCE COUNTY REGISTER OF DEED'S.

GRID NORTH

SCALE, FEET
0 50 100

QUEST
Civil Engineers, LLC
320 West Grand Ave, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

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

SIGNATURE: Kolby Schertz DATE: 01/18/2016
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

WISCONSIN
KOLBY F. SCHERTZ
S-2862
SEYMOUR
WI
LAND SURVEYOR

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

SIGNATURE: Michael Piller DATE: 1/18/2016
PRINT NAME: MICHAEL PILLER

7105-05-20 - 4.02
PLOT SCALE : 1" = 50'
PLOT NAME : STH 128
PLOT BY : KOLBY SCHERTZ
PLOT DATE : January 18, 2016
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\SURVEY\TPP\DRAWING\TPP-STH128_7105-05-01_C3D2014.DWG
APPRAISAL PLAT DATE : ----------

TRANSPORTATION PROJECT PLAT NO: 7105-05-20 - 4.03

LOCATED IN PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35 AND THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 26; ALL IN TOWNSHIP 27 NORTH, RANGE 15 WEST, TOWN OF SPRING LAKE, PIERCE COUNTY, WISCONSIN

RELOCATION ORDER STH 128, ELMWOOD - STH 64 (STH 72 TO STH 29)

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

5622617

PIERCE COUNTY
REGISTER OF DEEDS
VICKI J NELSON

PAGES: 1
PLATTRANS
RECORDING FEE: 25.00

01/26/2016 08:00AM
PRCC 262A

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7105-05-20 - 4.03
AMENDMENT NO:___

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
S.T.H. 128	BY WIS. STATUTE 82.31 (2)	-	-	-

UTILITY INTERESTS REQUIRED		
UTILITY #	OWNER(S)	INTEREST REQUIRED
100	TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK	RELEASE OF RIGHTS
101	NORTHERN STATES POWER COMPANY d/b/a XCEL ENERGY	RELEASE OF RIGHTS
103	NORTHERN NATURAL GAS COMPANY	RELEASE OF RIGHTS

UTILITY EASEMENT TABLE			
UTILITY #	PARCEL #	INTEREST DESCRIPTION	RECORDING DATA
100	3	EASEMENT	DOC#409411
101	3	EASEMENT	DOC#109653
103	3	PIPELINE EASEMENT	DOC#223428

STATION & OFFSET TABLE TO S.T.H. "128" ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
207	127+00.14	50.00' LT	336290.607	565839.866
208	127+76.63	55.00' RT	336420.548	565838.140
300	128+71.76	50.00' LT	336379.042	565702.618
301	128+71.76	40.00' LT	336387.862	565707.330
302	130+09.16	40.00' LT	336446.412	565586.554
303	131+42.71	40.00' LT	336499.909	565464.188
304	132+94.35	40.00' LT	336552.871	565326.083
305	135+19.62	40.00' LT	336623.787	565112.260
306	136+67.28	40.00' LT	336678.508	564970.953
307	137+79.20	40.00' LT	336733.055	564867.323
308	138+66.52	40.00' LT	336778.721	564792.900
309	140+89.42	40.00' LT	336897.240	564603.683
310	140+89.42	45.00' LT	336893.003	564601.029
311	141+52.42	45.00' LT	336927.082	564547.377
312	142+22.08	65.00' RT	337057.271	564549.245
313	142+08.87	65.00' RT	337049.993	564560.269
314	140+89.42	65.00' RT	336986.225	564659.422
315	140+89.42	55.00' RT	336977.750	564654.113
316	138+66.77	55.00' RT	336859.560	564842.801
317	137+79.20	55.00' RT	336814.027	564917.007
318	136+67.28	55.00' RT	336765.302	565009.575
319	135+19.62	55.00' RT	336713.957	565142.166
320	132+94.35	55.00' RT	336643.041	565355.989
321	131+42.71	55.00' RT	336586.954	565502.243
322	130+75.00	55.00' RT	336559.833	565564.279
323	130+75.00	70.00' RT	336573.576	565570.287
324	130+09.16	70.00' RT	336547.201	565630.617
325	128+71.76	70.00' RT	336484.884	565759.162
326	128+71.76	55.00' RT	336471.654	565752.094

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
207-300	CURVE	
300-301	N 28°06'45" E	10.00'
301-302	CURVE	
302-303	N 66°23'09" W	133.55'
303-304	CURVE	
304-305	N 71°39'05" W	225.28'
305-306	CURVE	
306-307	CURVE	
307-308	N 58°28'00" W	87.50'
308-309	N 57°56'16" W	223.09'
309-310	S 32°03'44" W	5.00'
310-311	CURVE	
311-312	N 0°49'20" E	130.20'
312-313	S 56°34'09" E	13.21'
313-314	CURVE	
314-315	S 32°03'44" W	10.00'
315-316	S 57°56'16" E	222.65'
316-317	S 58°28'00" E	87.06'
317-318	CURVE	
318-319	CURVE	
319-320	S 71°39'05" E	225.28'
320-321	CURVE	
321-322	S 66°23'09" E	67.71'
322-323	N 23°36'51" E	15.00'
323-324	S 66°23'09" E	65.84'
324-325	CURVE	
325-326	S 28°06'45" W	15.00'
326-208	CURVE	
208-207	S 0°45'40" E	129.95'

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
100-106	N 00°45'40" W	5168.03'
106-108	N 01°16'31" W	2663.04'
108-107	N 89°24'02" W	2622.10'
107-103	S 00°21'35" W	2609.27'
103-106	S 88°12'36" E	2580.33'
103-104	S 00°31'31" E	2609.34'
104-102	S 89°25'31" E	5192.70'
106-108	S 00°45'40" E	286.60'
106-STA127+38.98	S 00°45'40" E	353.80'
106-STA137+13.29	N 88°12'36" W	889.06'

SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT						
			R/W REQUIRED					
			NEW		EXISTING		TOTAL	
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	S.F.	ACRES	S.F.	ACRES	S.F.	ACRES
3	BEYER VALLEY FARM, LLC	FEE	-	0.77	-	-	-	0.77
4	GREGORY & VICKI NELSON	FEE	-	0.33	-	-	-	0.33

TLE S.F. REQUIRED: 3 - ; 4 -

QUEST
Civil Engineers, LLC

320 West Grand Ave, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

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

WISCONSIN · KOLBY F. SCHERTZ · S-2862 · SEYMOUR WI · LAND SURVEYOR

SIGNATURE: Kolby Schertz DATE: 01/18/2016
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION
SIGNATURE: Michael Piller DATE: 1/18/2016
PRINT NAME: MICHAEL PILLER

NOTE: FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NUMBER 562405 IN THE OFFICE OF THE PIERCE COUNTY REGISTER OF DEED'S.

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\SURVEY\TPP\DRAWING\TPP-STH128_7105-05-01_C3D2014.DWG PLOT DATE : January 18, 2016 PLOT BY : KOLBY SCHERTZ PLOT NAME : STH 128 PLOT SCALE : 1" = 50'
APPRAISAL PLAT DATE : ----------

TRANSPORTATION PROJECT PLAT NO: 7105-05-20 - 4.04

LOCATED IN PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 26, TOWNSHIP 27 NORTH, RANGE 15 WEST, TOWN OF SPRING LAKE, PIERCE COUNTY, WISCONSIN

RELOCATION ORDER STH 128, ELMWOOD - STH 64 (STH 72 TO STH 29)

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

562618

PIERCE COUNTY
REGISTER OF DEEDS
VICKI J NELSON

PAGES: 1
PLATTRANS
RECORDING FEE: 25.00

01/26/2016 08:00AM
PRC-C 263

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7105-05-20 - 4.04
AMENDMENT NO:---

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
S.T.H. 128	BY WIS. STATUTE 82.31 (2)	-	-	-

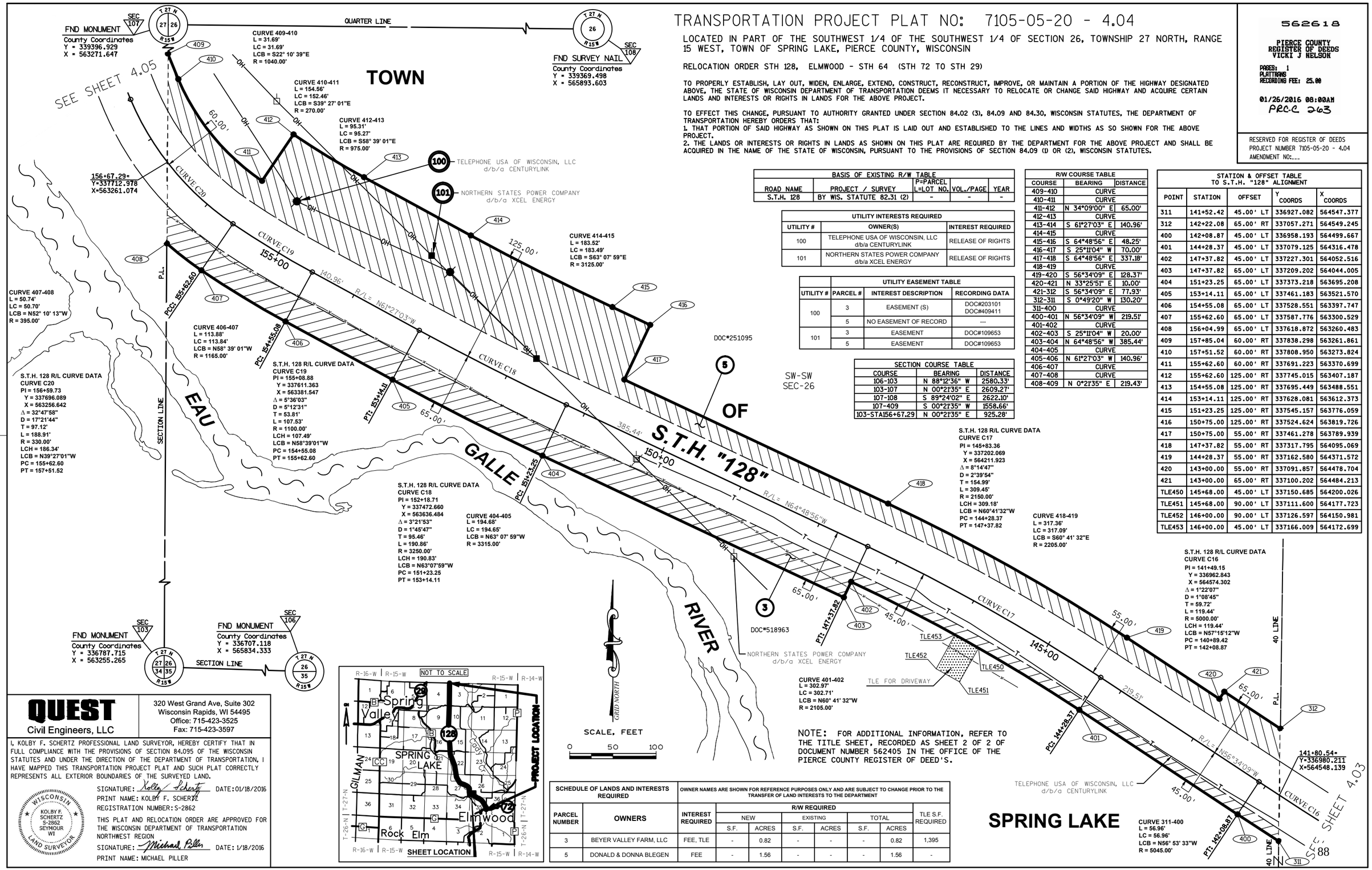
UTILITY INTERESTS REQUIRED		
UTILITY #	OWNER(S)	INTEREST REQUIRED
100	TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK	RELEASE OF RIGHTS
101	NORTHERN STATES POWER COMPANY d/b/a XCEL ENERGY	RELEASE OF RIGHTS

UTILITY EASEMENT TABLE			
UTILITY #	PARCEL #	INTEREST DESCRIPTION	RECORDING DATA
100	3	EASEMENT (S)	DOC#203101 DOC#409411
	5	NO EASEMENT OF RECORD	---
101	3	EASEMENT	DOC#109653
	5	EASEMENT	DOC#109653

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
106-103	N 88°12'36" W	2580.33'
103-107	N 00°21'35" E	2609.27'
107-108	S 89°24'02" E	2622.10'
107-409	S 00°21'35" W	1558.66'
103-STA156+67.29	N 00°21'35" E	925.28'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
409-410	CURVE	
410-411	CURVE	
411-412	N 34°09'00" E	65.00'
412-413	CURVE	
413-414	S 61°27'03" E	140.96'
414-415	CURVE	
415-416	S 64°48'56" E	48.25'
416-417	S 25°11'04" W	70.00'
417-418	S 64°48'56" E	337.18'
418-419	CURVE	
419-420	S 56°34'09" E	128.37'
420-421	N 33°25'51" E	10.00'
421-312	S 56°34'09" E	77.93'
312-311	S 0°49'20" W	130.20'
311-400	CURVE	
400-401	N 56°34'09" W	219.51'
401-402	CURVE	
402-403	S 25°11'04" W	20.00'
403-404	N 64°48'56" W	385.44'
404-405	CURVE	
405-406	N 61°27'03" W	140.96'
406-407	CURVE	
407-408	CURVE	
408-409	N 0°21'35" E	219.43'

STATION & OFFSET TABLE TO S.T.H. "128" ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
311	141+52.42	45.00' LT	336927.082	564547.377
312	142+22.08	65.00' RT	337057.271	564549.245
400	142+08.87	45.00' LT	336958.193	564499.667
401	144+28.37	45.00' LT	337079.125	564316.478
402	147+37.82	45.00' LT	337227.301	564052.516
403	147+37.82	65.00' LT	337209.202	564044.005
404	151+23.25	65.00' LT	337373.218	563695.208
405	153+14.11	65.00' LT	337461.183	563521.570
406	154+55.08	65.00' LT	337528.551	563397.747
407	155+62.60	65.00' LT	337587.776	563300.529
408	156+04.99	65.00' LT	337618.872	563260.483
409	157+85.04	60.00' RT	337838.298	563261.861
410	157+51.52	60.00' RT	337808.950	563273.824
411	155+62.60	60.00' RT	337691.223	563370.699
412	155+62.60	125.00' RT	337745.015	563407.187
413	154+55.08	125.00' RT	337695.449	563488.551
414	153+14.11	125.00' RT	337628.081	563612.373
415	151+23.25	125.00' RT	337545.157	563776.059
416	150+75.00	125.00' RT	337524.624	563819.726
417	150+75.00	55.00' RT	337461.278	563789.939
418	147+37.82	55.00' RT	337317.795	564095.069
419	144+28.37	55.00' RT	337162.580	564371.572
420	143+00.00	55.00' RT	337091.857	564478.704
421	143+00.00	65.00' RT	337100.202	564484.213
TLE450	145+68.00	45.00' LT	337150.685	564200.026
TLE451	145+68.00	90.00' LT	337111.600	564177.723
TLE452	146+00.00	90.00' LT	337126.597	564150.981
TLE453	146+00.00	45.00' LT	337166.009	564172.699



SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT							
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W REQUIRED NEW S.F.	NEW ACRES	EXISTING S.F.	EXISTING ACRES	TOTAL S.F.	TOTAL ACRES	TLE S.F. REQUIRED
3	BEYER VALLEY FARM, LLC	FEE, TLE	-	0.82	-	-	-	0.82	1,395
5	DONALD & DONNA BLEGEN	FEE	-	1.56	-	-	-	1.56	-

QUEST
Civil Engineers, LLC

320 West Grand Ave, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

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

SIGNATURE: Kolby Schertz DATE:01/18/2016
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

WISCONSIN KOLBY F. SCHERTZ S-2862 SEYMOUR WI LAND SURVEYOR

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

SIGNATURE: Michael Piller DATE: 1/18/2016
PRINT NAME: MICHAEL PILLER

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\SURVEY\TPP\DRAWING\TPP-STH128_7105-05-01_C3D2014.DWG PLOT DATE : January 18, 2016 PLOT BY : KOLBY SCHERTZ PLOT NAME : STH 128 PLOT SCALE : 1" = 50'
APPRAISAL PLAT DATE : ----------

7105-05-20 - 4.04

TRANSPORTATION PROJECT PLAT NO: 7105-05-20 - 4.05

LOCATED IN PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4; ALL IN SECTION 27, TOWNSHIP 27 NORTH, RANGE 15 WEST, TOWN OF SPRING LAKE, PIERCE COUNTY, WISCONSIN

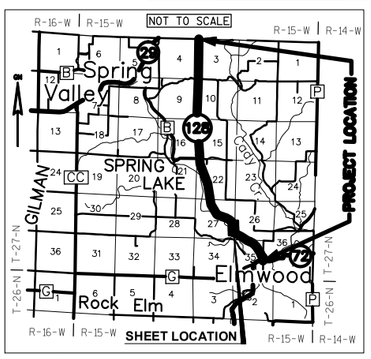
RELOCATION ORDER STH 128, ELMWOOD - STH 64 (STH 72 TO STH 29)

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

562619
PIERCE COUNTY REGISTER OF DEEDS
VICKI J NELSON
PAGES: 1
PLAT/RDMS
RECORDING FEE: 25.00
01/26/2016 08:00AM
PRCC 343A

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7105-05-20 - 4.05
AMENDMENT NO:___



SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
107-103	S 00°21'35" W	2609.27'
107-111	N 89°12'54" W	5203.61'
103-112	N 88°34'09" W	2599.30'
112-128	N 00°22'52" E	5174.92'
103-408	N 00°21'35" E	831.17'
103-STA156+67.29	N 00°21'35" E	925.28'

SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT						
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W REQUIRED					TLE S.F. REQUIRED
			NEW		EXISTING		TOTAL	
			S.F.	ACRES	S.F.	ACRES	S.F.	ACRES
5	DONALD & DONNA BLEGEN	FEE	-	0.62	-	-	-	0.62	-
8	CHARLES & LORRAINE BEYER FAMILY TRUST / BEYER VALLEY FARM, LLC	FEE	-	1.31	-	-	-	1.31	-

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
408-500	CURVE	
500-501	S 66°56'58" W	10.00'
501-502	CURVE	
502-503	N 9°52'42" W	82.93'
503-504	N 88°53'31" W	20.37'
504-505	N 9°52'42" W	98.44'
505-506	N 40°26'37" E	59.93'
506-507	CURVE	
507-508	N 9°30'31" E	115.53'
508-509	CURVE	
509-510	S 88°35'14" W	45.00'
510-511	CURVE	
511-512	CURVE	
512-513	N 52°37'21" E	45.00'
513-514	CURVE	
514-515	N 41°38'02" W	69.57'
515-516	N 48°21'58" E	17.00'
516-517	N 48°21'58" E	66.00'
517-518	N 48°21'58" E	27.00'
518-519	S 41°38'02" E	69.57'
519-520	CURVE	
520-521	CURVE	
521-522	CURVE	
522-523	S 9°30'31" W	115.53'
523-524	CURVE	
524-525	S 9°52'42" E	185.25'
525-409	CURVE	
409-408	S 0°21'35" W	219.43'

STATION & OFFSET TABLE TO S.T.H. "128" ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
408	156+04.99	65.00' LT	337618.872	563260.483
409	157+85.04	60.00' RT	337838.298	563261.861
500	157+51.52	65.00' LT	337760.007	563158.804
501	157+51.52	75.00' LT	337756.092	563149.602
502	160+04.40	75.00' LT	338014.575	563073.210
503	160+87.33	75.00' LT	338096.277	563058.983
504	160+91.22	95.00' LT	338096.671	563038.613
505	161+89.66	95.00' LT	338193.651	563021.725
506	162+25.00	50.00' LT	338239.263	563060.604
507	163+92.68	50.00' LT	338420.262	563065.352
508	165+08.21	50.00' LT	338534.209	563084.438
509	166+75.00	50.00' LT	338690.836	563095.522
510	166+75.00	95.00' LT	338689.726	563050.536
511	167+34.30	95.00' LT	338742.492	563047.443
512	169+02.28	95.00' LT	338848.018	563006.222
513	169+02.28	50.00' LT	338875.336	563041.981
514	169+76.57	50.00' LT	338929.774	562997.097
515	170+46.14	50.00' LT	338981.773	562950.875
516	170+46.14	33.00' LT	338993.067	562963.581
517	170+46.14	33.00' RT	339036.916	563012.910
518	170+46.14	60.00' RT	339054.854	563033.090
519	169+76.57	60.00' RT	339002.854	563079.312
520	169+02.23	60.00' RT	338942.062	563129.432
521	167+34.30	60.00' RT	338756.798	563201.781
522	165+08.21	60.00' RT	338516.037	563192.926
523	163+92.68	60.00' RT	338402.090	563173.840
524	161+89.66	60.00' RT	338220.243	563174.427
525	160+04.40	60.00' RT	338037.735	563206.209

NOTE: FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NUMBER 562405 IN THE OFFICE OF THE PIERCE COUNTY REGISTER OF DEED'S.

UTILITY EASEMENT TABLE			
UTILITY #	PARCEL #	INTEREST DESCRIPTION	RECORDING DATA
100	8	NO EASEMENT OF RECORD	---
	5	NO EASEMENT OF RECORD	---
101	5	EASEMENT (S)	DOC#109653
	8	EASEMENT	DOC#109653

UTILITY INTERESTS REQUIRED		
UTILITY #	OWNER(S)	INTEREST REQUIRED
100	TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK	RELEASE OF RIGHTS
101	NORTHERN STATES POWER COMPANY d/b/a XCEL ENERGY	RELEASE OF RIGHTS

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
S.T.H. 128	BY WIS. STATUTE 82.31 (2)	-	-	-

QUEST
Civil Engineers, LLC
320 West Grand Ave, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

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

WISCONSIN KOLBY F. SCHERTZ S-2862 SEYMOUR WI LAND SURVEYOR

SIGNATURE: Kolby Schertz DATE: 01/18/2016
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION
SIGNATURE: Michael Piller DATE: 1/18/2016
PRINT NAME: MICHAEL PILLER

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\SURVEY\TPP\DRAWING\TPP-STH128_7105-05-01_C3D2014.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : January 18, 2016 PLOT BY : KOLBY SCHERTZ PLOT NAME : STH 128 PLOT SCALE : 1" = 50' 7105-05-20 - 4.05

TRANSPORTATION PROJECT PLAT NO: 7105-05-20 - 4.06

LOCATED IN PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 27, TOWNSHIP 27 NORTH, RANGE 15 WEST, TOWN OF SPRING LAKE, PIERCE COUNTY, WISCONSIN

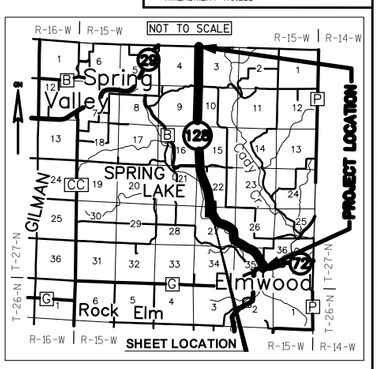
RELOCATION ORDER STH 128, ELMWOOD - STH 64 (STH 72 TO STH 29)

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

562620
PIERCE COUNTY REGISTER OF DEEDS VICKI J NELSON
PAGES: 1
PLAT/RMS RECORDING FEE: 25.00
01/26/2016 08:00AM
PRC-C 364

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7105-05-20 - 4.06
AMENDMENT NO:___



SEC 130
FND MONUMENT
County Coordinates
Y = 342075.447
X = 558097.932

217+04.09=
Y=342045.187
X=559732.199

R/L= N29°25'33"W 447.98'

SECTION LINE

SEC 128
FND MONUMENT
County Coordinates
Y = 342027.430
X = 560691.187

QUARTER LINE

SEC 112
FND MONUMENT
County Coordinates
Y = 336852.623
X = 560656.775

S.T.H. 128 R/L CURVE DATA
CURVE C33
PI = 215+35.70
Y = 341898.494
X = 559814.943
Δ = 1°57'40"
D = 0°45'50"
T = 128.38'
L = 256.73'
R = 7500.00'
LCH = 256.71'
LCB = N28°26'43"W
PC = 214+07.32
PT = 216+64.05

CURVE 603-604
L = 257.86'
LC = 257.84'
LCB = S28° 26' 43"E
R = 7533.00'

PT: 216+64.05

TOWN

CURVE 613-614
L = 255.02'
LC = 255.00'
LCB = N28° 26' 43"W
R = 7450.00'

CURVE C33
215+00

EXISTING R/W

SHED

PC: 214+07.32

DOC#409805 & 409806

NE-NW
SEC-27

R/L= N27°27'52"W 250.85'

NORTHERN STATES POWER COMPANY
d/b/a XCEL ENERGY

OF

S.T.H. "128"

DOC#409805 & 409806

PT: 211+56.47

CURVE 608-609
L = 205.42'
LC = 205.41'
LCB = S28° 22' 28"E
R = 6467.00'

S.T.H. 128 R/L CURVE DATA
CURVE C32
PI = 210+11.22
Y = 341433.087
X = 560056.852
Δ = 2°33'40"
D = 0°52'53"
T = 145.29'
L = 290.54'
R = 6500.00'
LCH = 290.52'
LCB = N28°44'42"W
PC = 208+65.93
PT = 211+56.47

CURVE 611-612
L = 208.06'
LC = 208.05'
LCB = N28° 22' 28"W
R = 6550.00'

CURVE C32
210+00

SPRING LAKE

209+50.00=
Y=341380.349
X=560087.960

PC: 208+65.93

R/L= N30°01'32"W 765.66'

205+00

202+03.25=
Y=340733.540
X=560461.152

40 LINE

SEC 111
FND MONUMENT
County Coordinates
Y = 339468.214
X = 558068.521

SECTION LINE

SEC 107
FND MONUMENT
County Coordinates
Y = 339396.929
X = 563271.647

NOTE: FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NUMBER 562405 IN THE OFFICE OF THE PIERCE COUNTY REGISTER OF DEED'S.

GRID NORTH

SCALE, FEET
0 50 100

STATION & OFFSET TABLE
TO S.T.H. "128" ALIGNMENT

POINT	STATION	OFFSET	Y COORDS	X COORDS
600	217+33.53	50.00' LT	342046.261	559674.187
601	217+23.52	33.00' LT	342045.896	559693.911
602	216+84.67	33.00' RT	342044.478	559770.486
603	216+64.05	33.00' RT	342026.521	559780.615
604	214+07.32	33.00' RT	341799.806	559903.430
605	214+07.32	60.00' RT	341812.258	559927.387
606	212+00.00	60.00' RT	341628.302	560023.004
607	212+00.00	33.00' RT	341615.849	559999.047
608	211+56.47	33.00' RT	341577.225	560019.123
609	209+50.00	33.00' RT	341396.490	560116.742
610	209+50.00	33.00' LT	341364.207	560059.177
611	209+50.00	50.00' LT	341355.891	560044.350
612	211+56.47	50.00' LT	341538.946	559945.478
613	214+07.32	50.00' LT	341761.526	559829.785
614	216+64.05	50.00' LT	341985.743	559708.323

R/W COURSE TABLE

COURSE	BEARING	DISTANCE
600-601	S 88°56'21" E	19.73'
601-602	S 88°56'21" E	76.59'
602-603	S 29°25'33" E	20.62'
603-604	CURVE	
604-605	N 62°32'08" E	27.00'
605-606	S 27°27'52" E	207.32'
606-607	S 62°32'08" W	27.00'
607-608	S 27°27'52" E	43.53'
608-609	CURVE	
609-610	S 60°42'56" W	66.00'
610-611	S 60°42'56" E	17.00'
611-612	CURVE	
612-613	N 27°27'52" W	250.85'
613-614	CURVE	
614-600	N 29°25'33" W	69.48'

SECTION COURSE TABLE

COURSE	BEARING	DISTANCE
107-111	N 89°12'54" W	5203.61'
111-130	N 00°38'47" E	2607.40'
130-128	S 88°56'21" E	2593.70'
128-112	S 00°22'52" W	5174.92'
130-600	S 88°56'21" E	1576.53'
128-STA217+04.09	N 88°56'21" W	959.15'

UTILITY EASEMENT TABLE

UTILITY #	PARCEL #	INTEREST DESCRIPTION	RECORDING DATA
100	6	EASEMENT (S)	DOC#231930 DOC#409411
101	6	EASEMENT	DOC#109653

UTILITY INTERESTS REQUIRED

UTILITY #	OWNER(S)	INTEREST REQUIRED
100	TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK	RELEASE OF RIGHTS
101	NORTHERN STATES POWER COMPANY d/b/a XCEL ENERGY	RELEASE OF RIGHTS

BASIS OF EXISTING R/W TABLE

ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
S.T.H. 128	BY WIS. STATUTE 82.31 (2)	-	-	-

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W REQUIRED NEW S.F.	NEW ACRES	EXISTING S.F.	EXISTING ACRES	TOTAL S.F.	TOTAL ACRES	TLE S.F. REQUIRED
6	JOEL & LINDA HARTUNG	FEE	-	0.43	-	-	-	0.43	-

QUEST
Civil Engineers, LLC
320 West Grand Ave, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

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

SIGNATURE: Kolby F. Schertz DATE: 01/18/2016
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

WISCONSIN KOLBY F. SCHERTZ S-2862 SEYMOUR WI LAND SURVEYOR

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

SIGNATURE: Michael Piller DATE: 1/18/2016
PRINT NAME: MICHAEL PILLER

90

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\SURVEY\TPP\DRAWING\TPP-STH128_7105-05-01_C3D2014.DWG
APPRAISAL PLAT DATE :
PLOT DATE : January 18, 2016 PLOT BY : KOLBY SCHERTZ PLOT NAME : STH 128 PLOT SCALE : 1" = 50'
7105-05-20 - 4.06

TRANSPORTATION PROJECT PLAT NO: 7105-05-20 - 4.07

LOCATED IN PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 AND THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4; ALL IN SECTION 22, TOWNSHIP 27 NORTH, RANGE 15 WEST, TOWN OF SPRING LAKE, PIERCE COUNTY, WISCONSIN

RELOCATION ORDER STH 128, ELMWOOD - STH 64 (STH 72 TO STH 29)

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

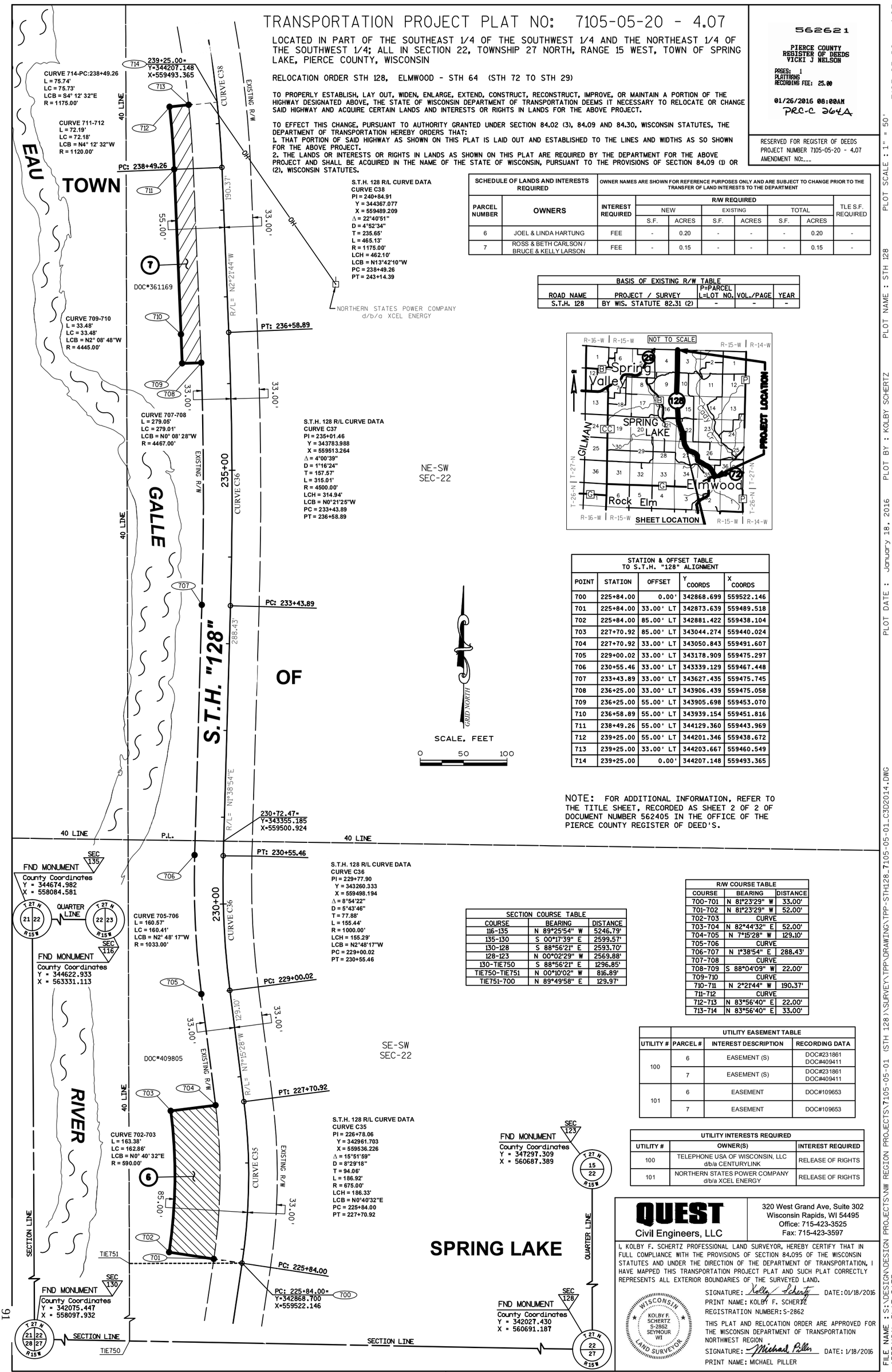
562621

PIERCE COUNTY
REGISTER OF DEEDS
VICKI J NELSON

PAGES: 1
PLAT/RMNS
RECORDING FEE: 25.00

01/26/2016 08:00AM
PRC-C 364A

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7105-05-20 - 4.07
AMENDMENT NO:---



S.T.H. 128 R/L CURVE DATA
CURVE C38
PI = 240+84.91
Y = 344367.077
X = 559489.209
Δ = 22°40'51"
D = 4°52'34"
T = 235.65'
L = 465.13'
R = 1175.00'
LCH = 462.10'
LCB = N13°42'10"W
PC = 238+49.26
PT = 243+14.39

S.T.H. 128 R/L CURVE DATA
CURVE C37
PI = 235+01.46
Y = 343783.988
X = 559513.264
Δ = 4°00'39"
D = 1°16'24"
T = 157.57'
L = 315.01'
R = 4500.00'
LCH = 314.94'
LCB = N0°21'25"W
PC = 233+43.89
PT = 236+58.89

S.T.H. 128 R/L CURVE DATA
CURVE C36
PI = 229+77.90
Y = 343260.333
X = 559498.194
Δ = 8°54'22"
D = 5°43'46"
T = 77.88'
L = 155.44'
R = 1000.00'
LCH = 155.29'
LCB = N2°48'17"W
PC = 229+00.02
PT = 230+55.46

S.T.H. 128 R/L CURVE DATA
CURVE C35
PI = 226+78.06
Y = 342961.703
X = 559536.226
Δ = 15°51'59"
D = 8°29'18"
T = 94.06'
L = 186.92'
R = 675.00'
LCH = 186.33'
LCB = N0°40'32"E
PC = 225+84.00
PT = 227+70.92

SCHEDULE OF LANDS AND INTERESTS REQUIRED		OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT							
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W REQUIRED						TLE S.F. REQUIRED
			NEW		EXISTING		TOTAL		
			S.F.	ACRES	S.F.	ACRES	S.F.	ACRES	
6	JOEL & LINDA HARTUNG	FEE	-	0.20	-	-	-	0.20	-
7	ROSS & BETH CARLSON / BRUCE & KELLY LARSON	FEE	-	0.15	-	-	-	0.15	-

BASIS OF EXISTING R/W TABLE				
ROAD NAME	PROJECT / SURVEY	P=PARCEL L=LOT NO.	VOL./PAGE	YEAR
S.T.H. 128	BY WIS. STATUTE 82.31 (2)	-	-	-

STATION & OFFSET TABLE TO S.T.H. "128" ALIGNMENT				
POINT	STATION	OFFSET	Y COORDS	X COORDS
700	225+84.00	0.00'	342868.699	559522.146
701	225+84.00	33.00' LT	342873.639	559489.518
702	225+84.00	85.00' LT	342881.422	559438.104
703	227+70.92	85.00' LT	343044.274	559440.024
704	227+70.92	33.00' LT	343050.843	559491.607
705	229+00.02	33.00' LT	343178.909	559475.297
706	230+55.46	33.00' LT	343339.129	559467.448
707	233+43.89	33.00' LT	343627.435	559475.745
708	236+25.00	33.00' LT	343906.439	559475.058
709	236+25.00	55.00' LT	343905.698	559453.070
710	236+58.89	55.00' LT	343939.154	559451.816
711	238+49.26	55.00' LT	344129.360	559443.969
712	239+25.00	55.00' LT	344201.346	559438.672
713	239+25.00	33.00' LT	344203.667	559460.549
714	239+25.00	0.00'	344207.148	559493.365

NOTE: FOR ADDITIONAL INFORMATION, REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT NUMBER 562405 IN THE OFFICE OF THE PIERCE COUNTY REGISTER OF DEED'S.

SECTION COURSE TABLE		
COURSE	BEARING	DISTANCE
116-135	N 89°25'54" W	5246.79'
135-130	S 00°17'39" E	2599.57'
130-128	S 88°56'21" E	2593.70'
128-123	N 00°02'29" W	2569.88'
130-TIE750	S 88°56'21" E	1296.85'
TIE750-TIE751	N 00°10'02" W	816.89'
TIE751-700	N 89°49'58" E	129.97'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
700-701	N 81°23'29" W	33.00'
701-702	N 81°23'29" W	52.00'
702-703	CURVE	
703-704	N 82°44'32" E	52.00'
704-705	N 7°15'28" W	129.10'
705-706	CURVE	
706-707	N 1°38'54" E	288.43'
707-708	CURVE	
708-709	S 88°04'09" W	22.00'
709-710	CURVE	
710-711	N 2°21'44" W	190.37'
711-712	CURVE	
712-713	N 83°56'40" E	22.00'
713-714	N 83°56'40" E	33.00'

UTILITY EASEMENT TABLE			
UTILITY #	PARCEL #	INTEREST DESCRIPTION	RECORDING DATA
100	6	EASEMENT (S)	DOC#231861 DOC#409411
	7	EASEMENT (S)	DOC#231861 DOC#409411
101	6	EASEMENT	DOC#109653
	7	EASEMENT	DOC#109653

UTILITY INTERESTS REQUIRED		
UTILITY #	OWNER(S)	INTEREST REQUIRED
100	TELEPHONE USA OF WISCONSIN, LLC d/b/a CENTURYLINK	RELEASE OF RIGHTS
101	NORTHERN STATES POWER COMPANY d/b/a XCEL ENERGY	RELEASE OF RIGHTS

QUEST
Civil Engineers, LLC

320 West Grand Ave, Suite 302
Wisconsin Rapids, WI 54495
Office: 715-423-3525
Fax: 715-423-3597

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

WISCONSIN KOLBY F. SCHERTZ S-2862 SEYMOUR WI LAND SURVEYOR

SIGNATURE: Kolby Schertz DATE: 01/18/2016
PRINT NAME: KOLBY F. SCHERTZ
REGISTRATION NUMBER: S-2862

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

SIGNATURE: Michael Piller DATE: 1/18/2016
PRINT NAME: MICHAEL PILLER

7105-05-20 - 4.07
PLOT SCALE : 1" = 50'
PLOT NAME : STH 128
PLOT BY : KOLBY SCHERTZ
PLOT DATE : January 18, 2016
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\SURVEY\TPP\DRAWING\TPP-STH128_7105-05-01_C3D2014.DWG
APPRAISAL PLAT DATE : ----------

BEGIN PROJECT 7105-05-70
STA 100+00.00
SAWING ASPHALT
BUTT JOINT REQUIRED

CULVERT 100 STA 101+00
EXISTING 24X18 ARCHED CPCS
REMOVE 3' EXISTING PIPE ARCHED 18"x24" LT
INSTALL 3' NEW CPCS ARCHED 18"x24" LT
INSTALL NEW ARCHED 18"x24" AEW
PIPE CLEANING REQUIRED RT

STA 105+50 - STA 111+50 LT
INSTALL NEW MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT REQUIRED

CENTURYLINK (FO)
CENTURYLINK (FO & TEL)
#6717 EXISTING BASE AGGREGATE DRIVEWAY
CENTURYLINK (FO & TEL)
ELMWOOD MUNICIPAL (WATER)
ELMWOOD MUNICIPAL (SANITARY)
STH 128
MATCHLINE STA 112+00
#1104 EXISTING ASPHALT DRIVEWAY
XCEL ENERGY (ELEC)
WE ENERGIES (GAS)
CAUTION
WE ENERGIES (GAS)
CAUTION
CELECT COMMUNICATIONS (TV)
STH 72
#1153 EXISTING BASE AGGREGATE ALLEY WAY
CENTURYLINK (TEL)
CULVERT P1
EXISTING CPCS 18-INCH TO REMAIN
INSTALL MARKER CULVERT PIPE RT AND LT (2)
#1103 EXISTING BASE AGGREGATE DRIVEWAY
SAWING ASPHALT AND BUTT JOINT REQUIRED
PARTRIDGE AVE W
UNKNOWN (ELEC)
XCEL ENERGY (ELEC)
#1108 EXISTING ASPHALT DRIVEWAY
CELECT COMMUNICATIONS (TV)

EXISTING BEST FIT PROFILE SHOWN
FOR INFORMATION ONLY

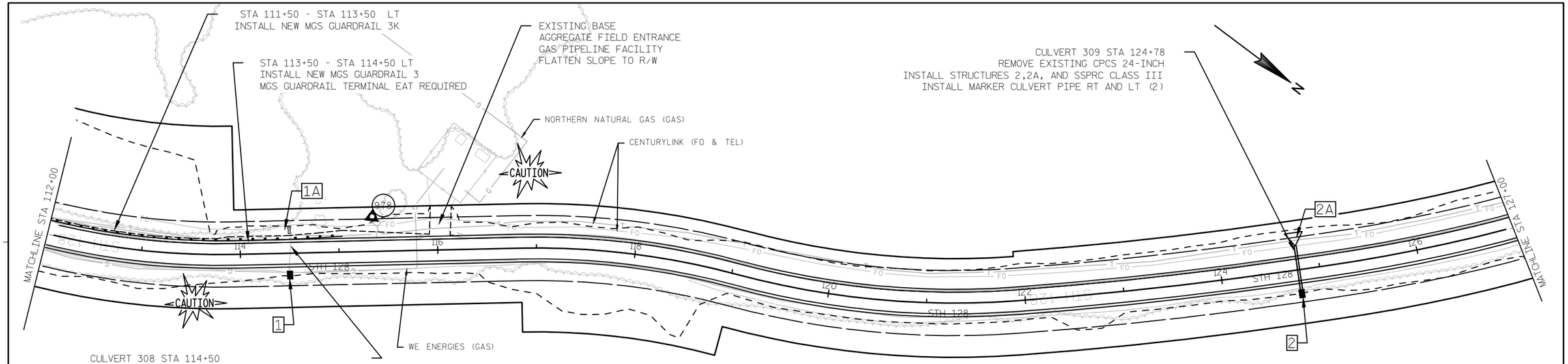
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K = 60.27
VCL = 200.00
K = 77.53
VCL = 150.00
K = 79.80
VCL = 130.00
K = 14.42

STA 100+28.95 EL 854.84
STA 101+10.58 EL 855.08
VPC STA 102+21.50 VPC EL 856.47
VPI STA 103+46.30 VPI EL 858.04
VPT STA 104+71.30 VPT EL 864.79
VPC STA 105+08.80 VPC EL 866.82
VPI STA 106+08.80 VPI EL 872.22
VPT STA 107+08.80 VPT EL 875.05
VPC STA 107+76.27 VPC EL 876.95
VPI STA 108+51.27 VPI EL 879.07
VPT STA 109+26.27 VPT EL 882.60
STA 110+17.93 EL 886.91
VPC STA 110+94.14 VPC EL 891.44
VPI STA 111+59.14 VPI EL 895.31

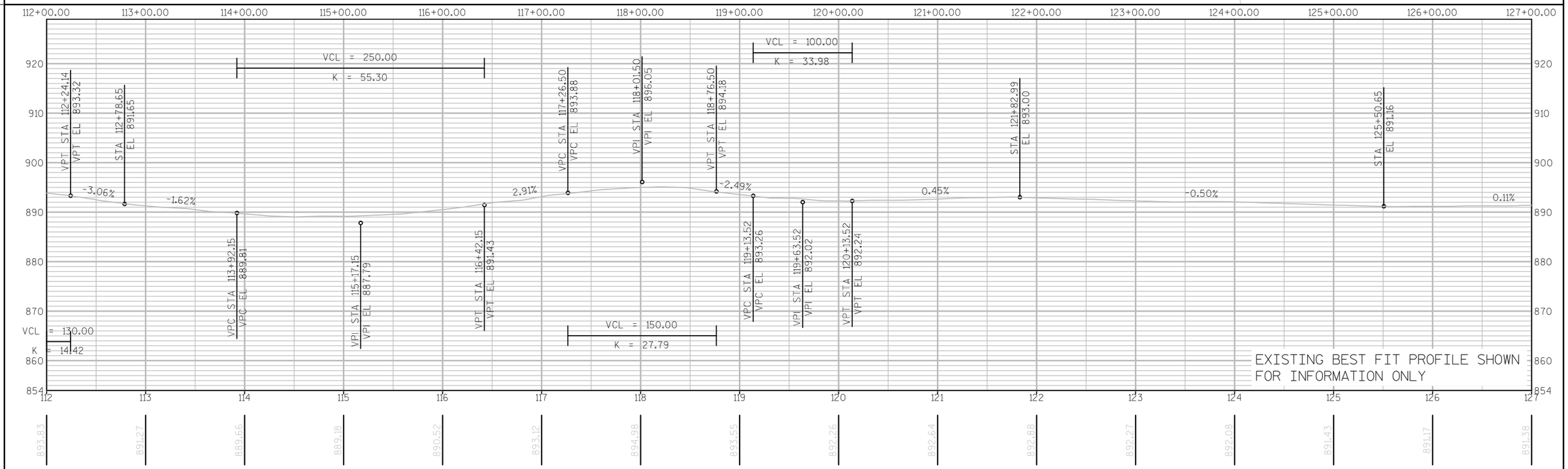
0.29% 1.26% 5.40% 2.82% 4.70% 5.95%

855.24 855.07 856.26 858.00 861.24 866.27 871.12 874.76 877.63 881.34 886.04 891.78 893.83

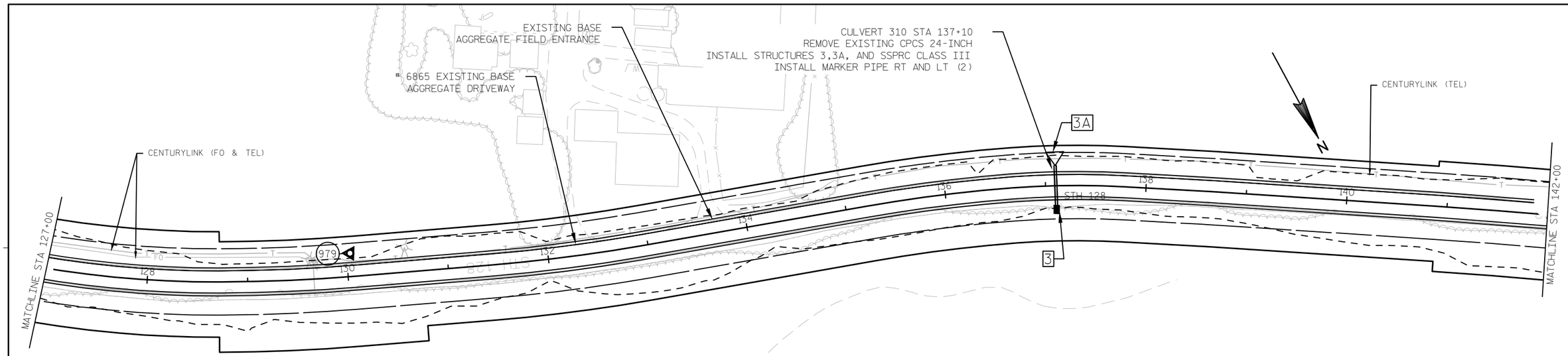
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 92	E



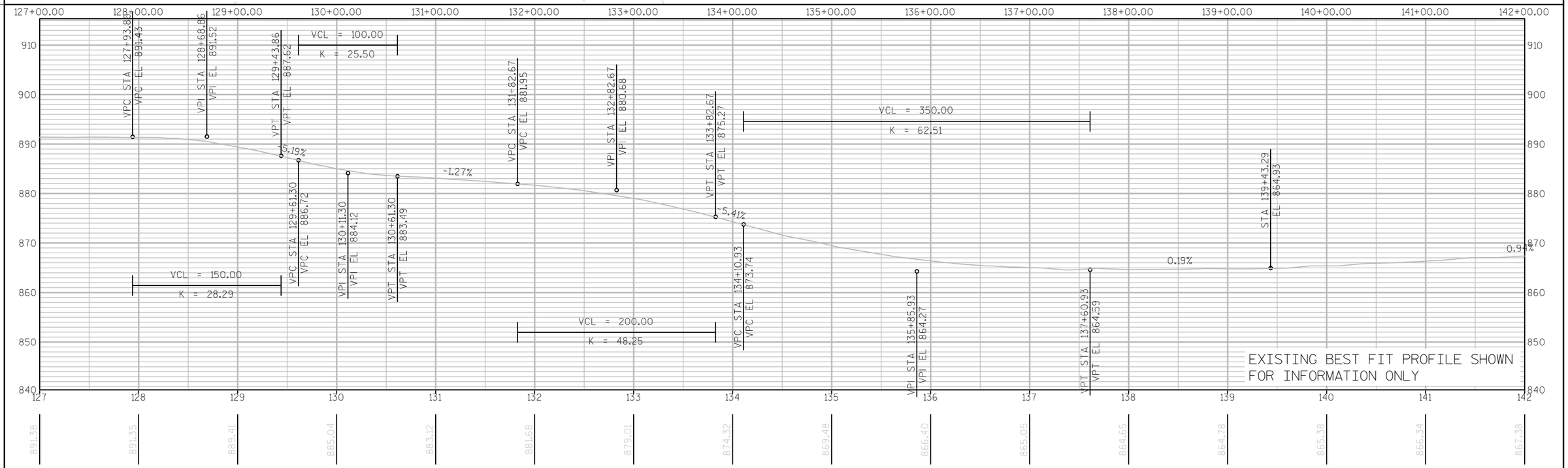
STRUCT NO.	STATION	OFFSET		STRUCTURE							DISCHARGE PIPE						
				TYPE		COVER	PROP RIM (FLOW LINE)	T.O.S. ELEV	B.O.S ELEV	DEPTH (FT)	TO STRUCT	SIZE (IN)	C-C (FT)	INLET ELEV	DISCHARGE ELEV	LENGTH (FT)	SLOPE (%)
1	114+50	22.1'	RT	INLET	MS-1	MS	887.40	887.40	884.95	2.45	1A	18	42	884.95	884.62	42	0.79%
1A	114+50	19.5'	LT	CONC AEW	18-IN	-	884.62	-						-			
2	124+78	23.5'	RT	INLET	MS-1	MS	890.10	890.10	886.00	4.10	2A	24	48	886.00	884.90	48	2.29%
2A	124+78	24.5'	LT	CONC AEW	24-IN	-	884.90	-						-			



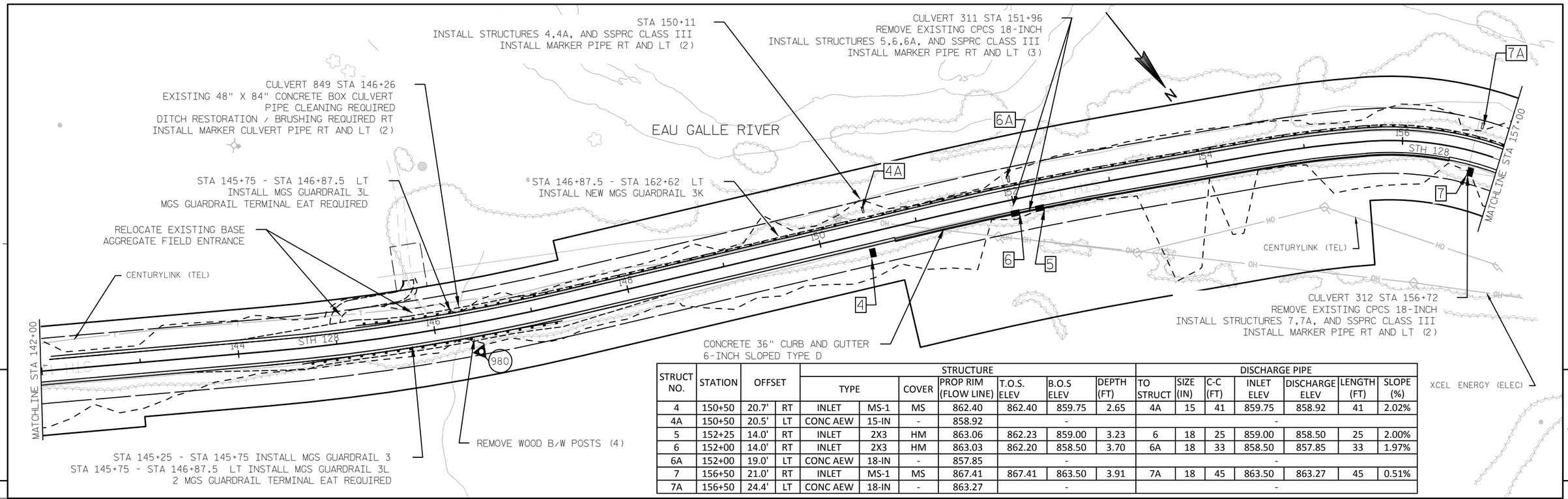
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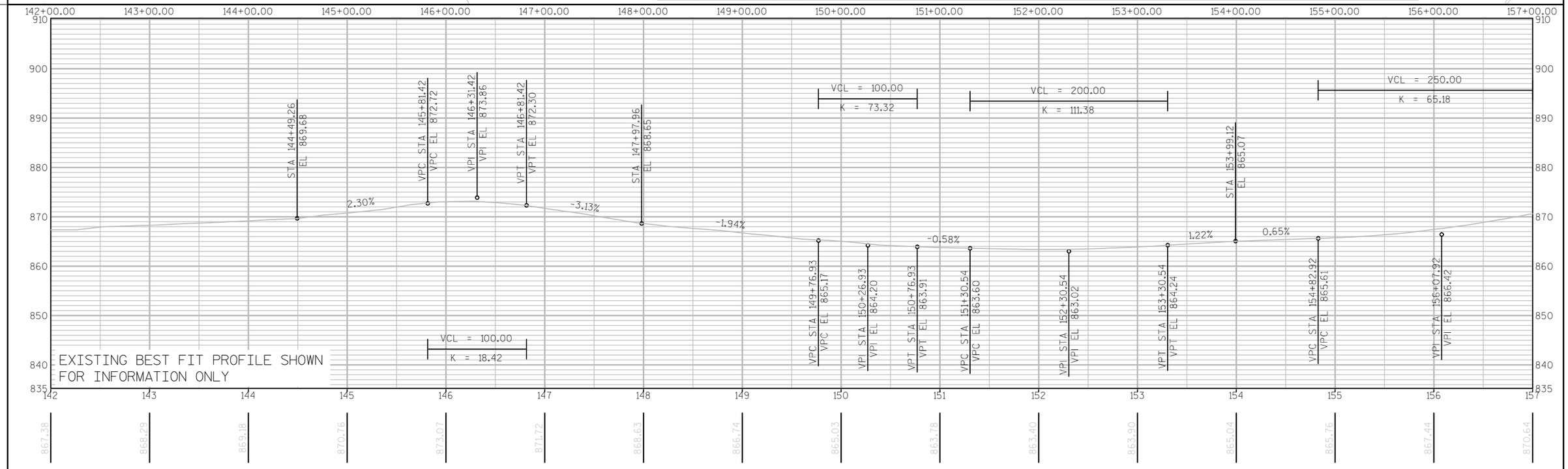
STRUCT NO.	STATION	OFFSET		STRUCTURE							DISCHARGE PIPE						
				TYPE		COVER	PROP RIM (FLOW LINE)	T.O.S. ELEV	B.O.S ELEV	DEPTH (FT)	TO STRUCT	SIZE (IN)	C-C (FT)	INLET ELEV	DISCHARGE ELEV	LENGTH (FT)	SLOPE (%)
3	137+10	24.0'	RT	INLET	MS-1	MS	862.85	862.85	860.39	2.46	3A	24	44	860.39	860.25	44	0.32%
3A	137+10	20.0'	LT	CONC AEW	24-IN	-	860.25	-			-			-			



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 94	E



STRUCT NO.	STATION	OFFSET		STRUCTURE TYPE		COVER	PROP RIM (FLOW LINE)	T.O.S. ELEV	B.O.S ELEV	DEPTH (FT)	DISCHARGE PIPE TO STRUCT	SIZE (IN)	C-C (FT)	INLET ELEV	DISCHARGE ELEV	LENGTH (FT)	SLOPE (%)
4	150+50	20.7'	RT	INLET	MS-1	MS	862.40	862.40	859.75	2.65	4A	15	41	859.75	858.92	41	2.02%
4A	150+50	20.5'	LT	CONC AEW	15-IN	-	858.92	-			6	18	25	859.00	858.50	25	2.00%
5	152+25	14.0'	RT	INLET	2X3	HM	863.06	862.23	859.00	3.23	6A	18	33	858.50	857.85	33	1.97%
6	152+00	14.0'	RT	INLET	2X3	HM	863.03	862.20	858.50	3.70	7	18	45	863.50	863.27	45	0.51%
6A	152+00	19.0'	LT	CONC AEW	18-IN	-	857.85	-			7A	18	45	863.50	863.27	45	0.51%
7	156+50	21.0'	RT	INLET	MS-1	MS	867.41	867.41	863.50	3.91							
7A	156+50	24.4'	LT	CONC AEW	18-IN	-	863.27	-									



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 95	E

STA 146+87.5 - STA 162+62 LT
INSTALL NEW MGS GUARDRAIL 3K

EAU GALLE RIVER

STA 162+62 - STA 169+25 LT
INSTALL NEW MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT REQUIRED

STA 168+03
EXISTING 138"X96" CONCRETE BOX CULVERT 850
REMOVING OLD STRUCTURE REQUIRED

STA 168+25
INSTALL NEW CRCP III 84-INCHX 72'
LT OFFSET 40' INV 872.00
RT OFFSET 32' INV 877.5
INSTALL 84-INCH CRCP ENDWALLS LT AND RT
MATCH ENDWALL SLOPE TO PIPE
RIPRAP ENERGY DISSIPATOR LT

MATCH LINE STA 157+00

MATCHLINE STA 172+00

STH 128

EXISTING FENCE

CENTURYLINK (TEL)

XCEL ENERGY (ELEC)

CONCRETE 36" CURB AND GUTTER
6-INCH SLOPED TYPE D

STA 164+25
INSTALL STRUCTURES 8, 8A, AND SSPRC CLASS III
INSTALL MARKER CULVERT PIPE LT AND RT (2)

REMOVE EXISTING GUARDRAIL

STA 167+70 - STA 168+70 RT
INSTALL MGS GUARDRAIL 3
2 MGS GUARDRAIL TERMINAL EAT REQUIRED

STRUCT NO.	STATION	OFFSET		STRUCTURE							DISCHARGE PIPE						
				TYPE		COVER	PROP RIM (FLOW LINE)	T.O.S. ELEV	B.O.S ELEV	DEPTH (FT)	TO STRUCT	SIZE (IN)	C-C (FT)	INLET ELEV	DISCHARGE ELEV	LENGTH (FT)	SLOPE (%)
8	164+25	21.0'	RT	INLET	MS-1	MS	891.65	891.65	888.79	2.86	8A	15	45	888.75	887.85	45	2.00%
8A	164+25	24.1'	LT	CONC AEW	15-IN	-	887.85	-			-						

EXISTING BEST FIT PROFILE SHOWN
FOR INFORMATION ONLY

VCL = 250.00
K = 65.18

VPT STA 157+32.92
VPT EL 872.02

VPC STA 159+26.73
VPC EL 880.71

VPI STA 160+01.73
VPI EL 884.07

VPT STA 160+76.73
VPT EL 885.00

VCL = 150.00
K = 46.25

VPC STA 161+22.89
VPC EL 885.57

VPI STA 161+97.89
VPI EL 886.50

VPT STA 162+72.89
VPT EL 888.73

VCL = 150.00
K = 86.27

STA 164+21.56
ELL 893.16

VPC STA 165+28.27
VPC EL 896.82

VPI STA 165+98.27
VPI EL 899.22

VPT STA 166+68.27
VPT EL 895.30

VCL = 140.00
K = 15.51

STA 168+06.85
EL 887.54

VCL = 100.00
K = 27.17

VPC STA 169+29.37
VPC EL 881.42

VPI STA 169+79.37
VPI EL 878.93

VPT STA 170+29.37
VPT EL 878.27

STA 170+46.14
EL 878.05

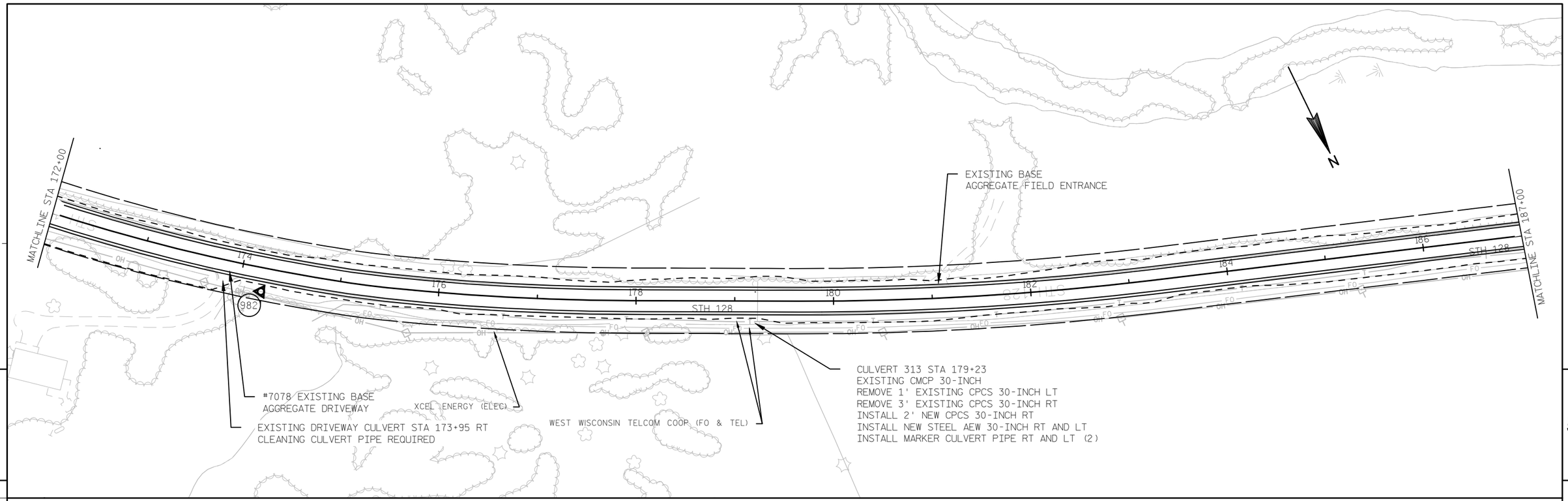
VPC STA 171+83.86
VPC EL 876.59

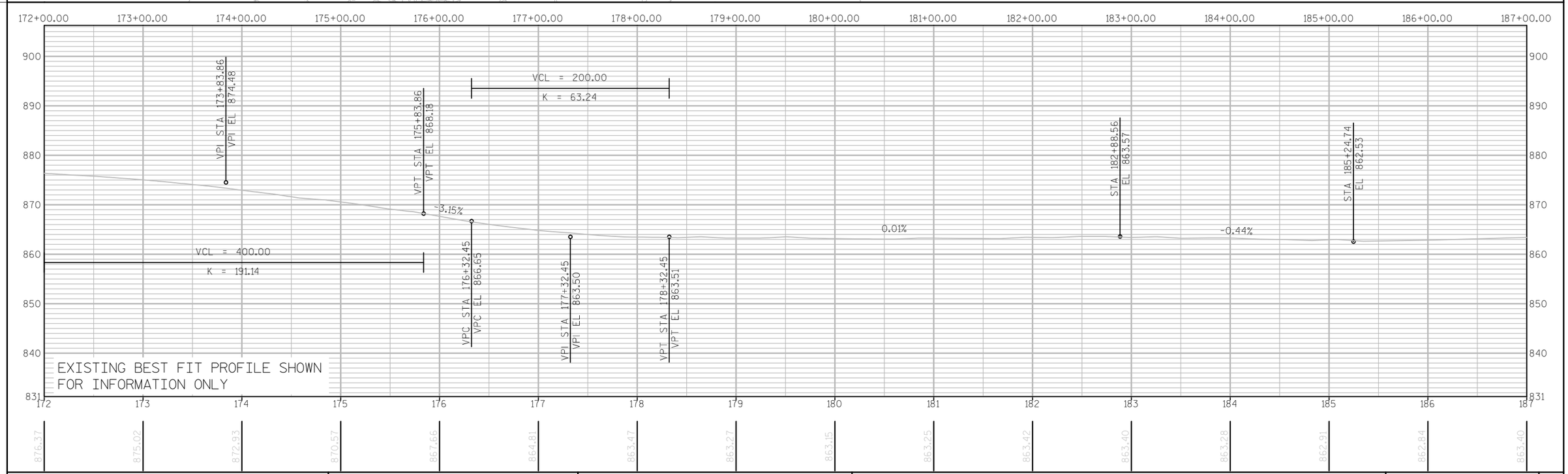
VCL = 400.00
K = 191.14

4.48%
2.98%
1.24%
3.43%
-5.60%
-4.99%
-1.31%
-1.06%

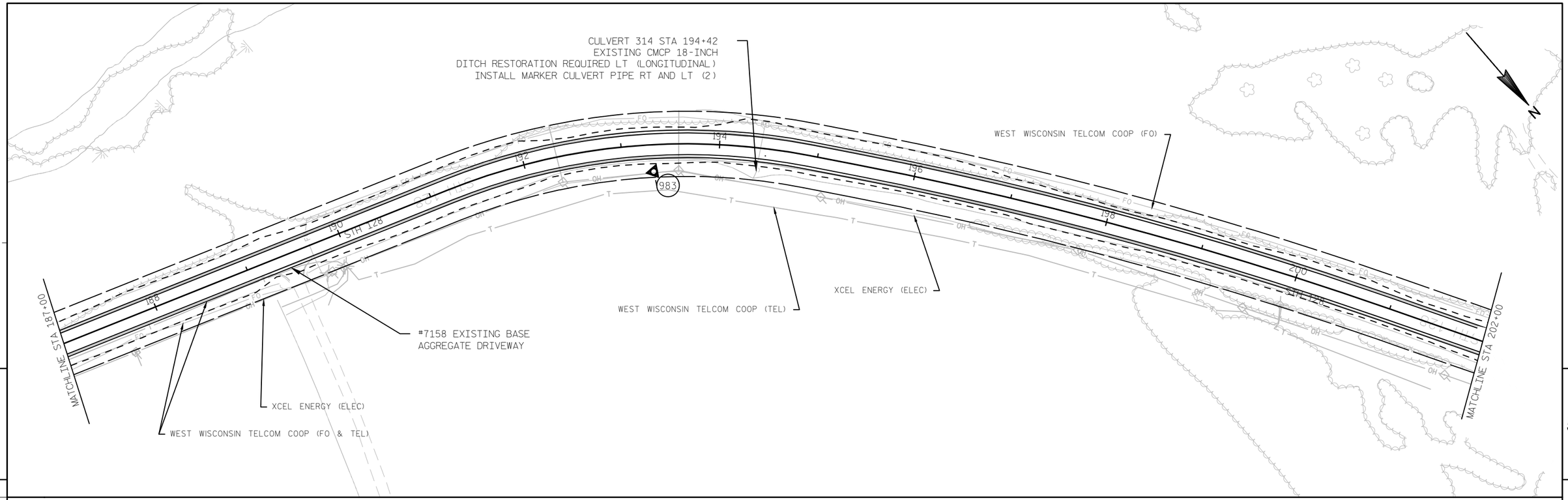
870.64 875.01 879.47 883.38 885.30 886.87 889.54 892.49 895.88 897.61 893.47 887.96 882.96 878.97 877.36 876.37

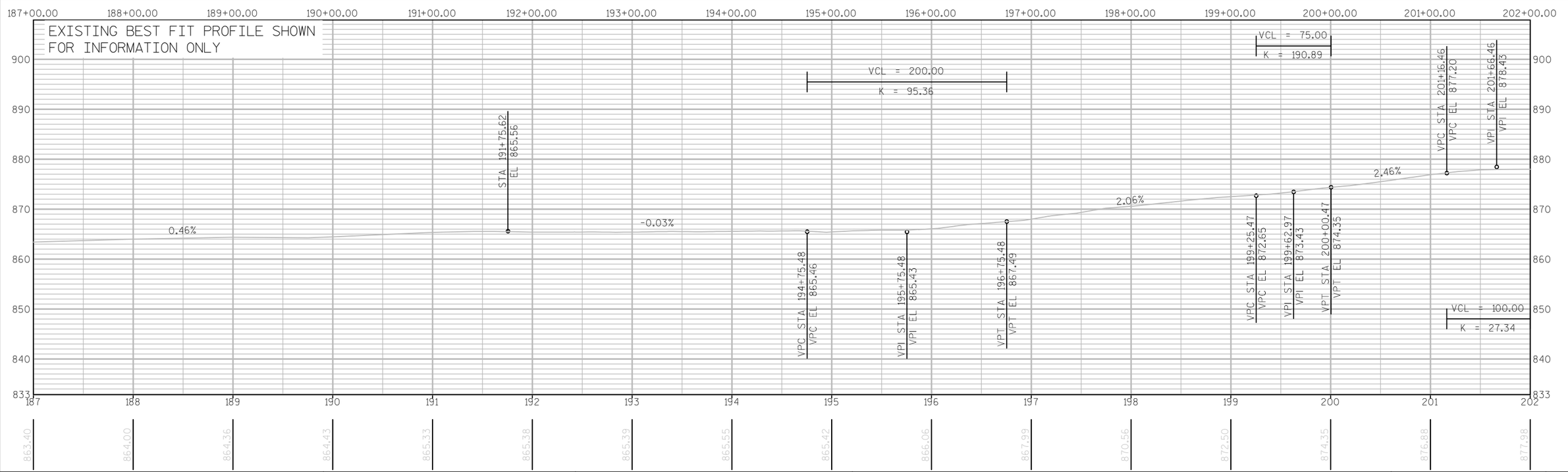
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 96	E



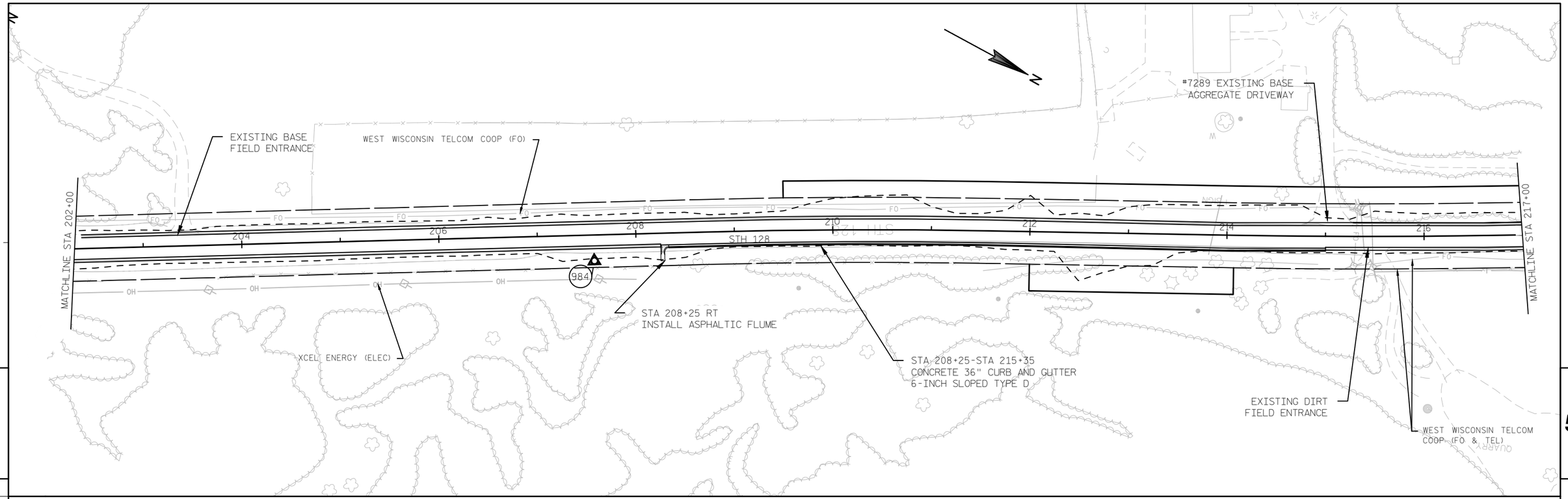


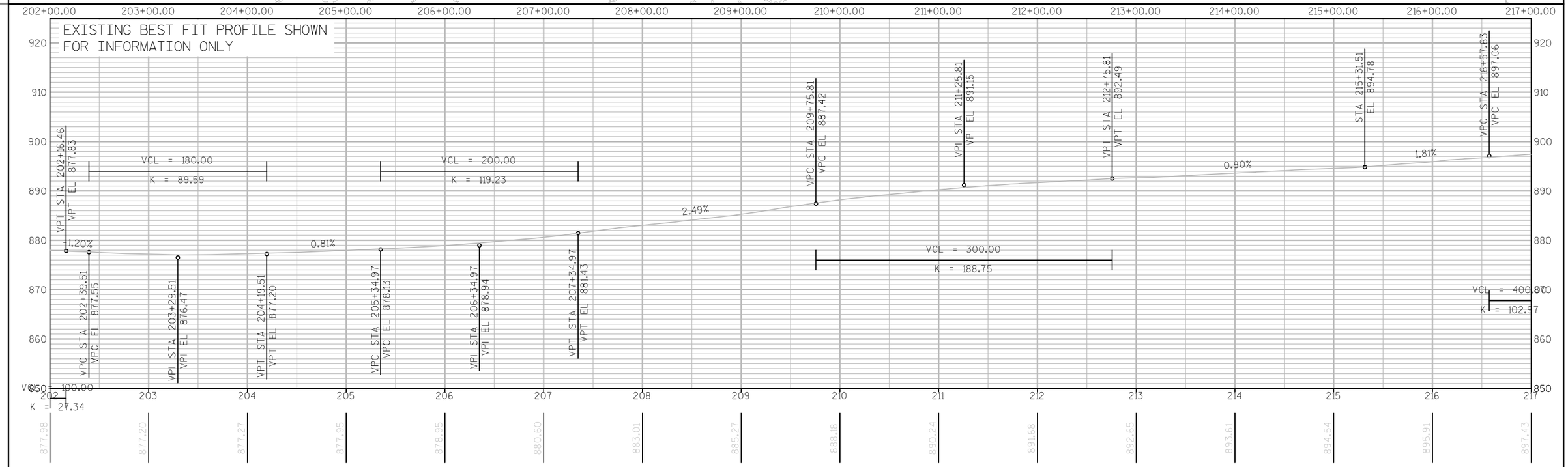
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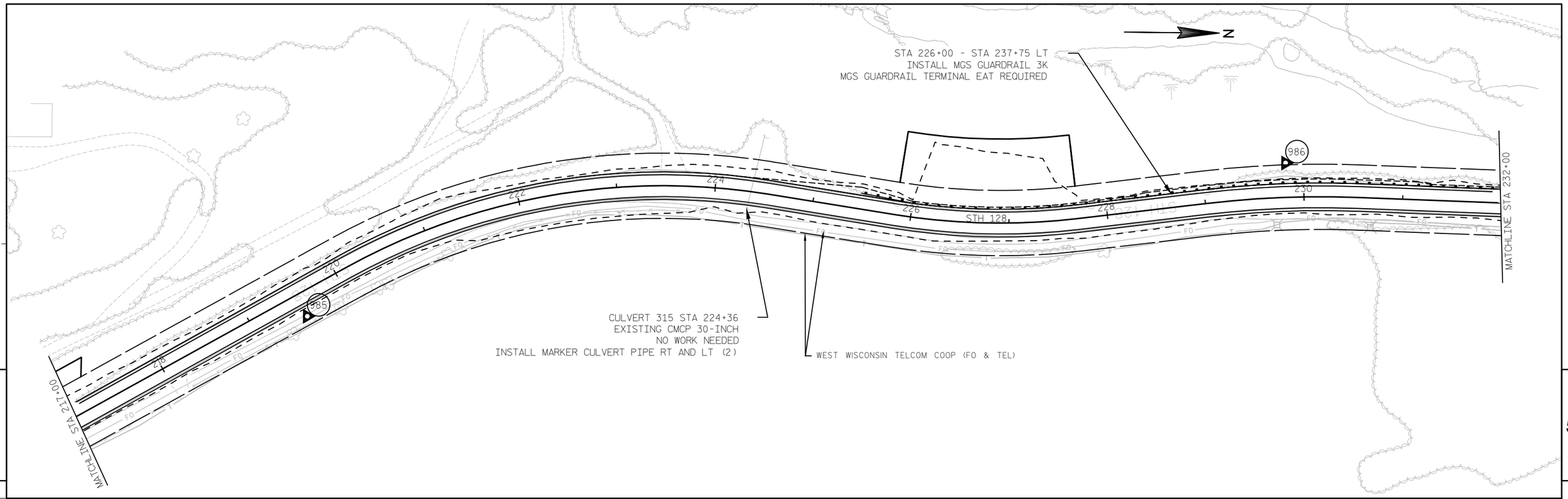


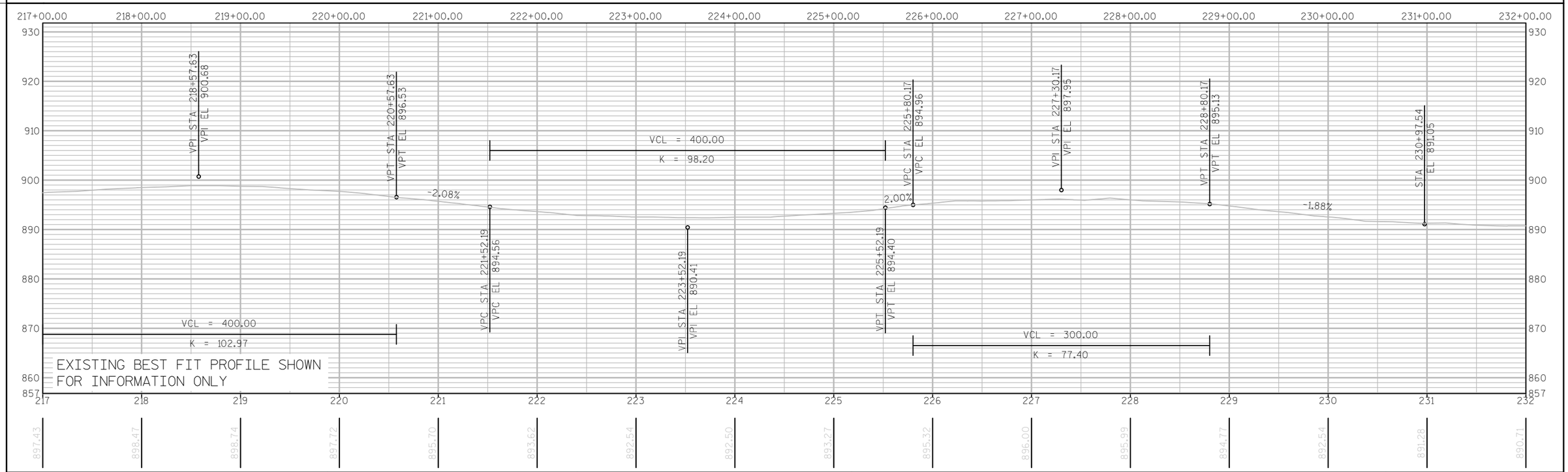
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 98	E





PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 99	E





PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 100	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\050101_PP_STH128_7105-05-01_100SCALE.DWG PLOT DATE : 9/7/2016 9:01 AM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 44

MATCHLINE STA 232+00

STA 226+00 - STA 237+75 LT
INSTALL MGS GUARDRAIL 3K

EAU GALLE RIVER

STA 237+75 - STA 239+50 LT
INSTALL MGS GUARDRAIL 3L

STA 239+50 - STA 240+00 LT
INSTALL MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT REQUIRED

EXISTING BASE
FIELD ENTRANCE

XCEL ENERGY (ELEC)

WEST WISCONSIN TELCOM COOP (FO & TEL)

STH 128

WEST WISCONSIN TELCOM COOP (FO & TEL)

STA 237+81 - STA 238+31 RT INSTALL MGS GUARDRAIL 3
STA 238+31 - STA 239+45 RT INSTALL MGS GUARDRAIL 3L
2 MGS GUARDRAIL TERMINAL EAT REQUIRED

CULVERT 311 STA 232+16
EXISTING CMCP 18-INCH
NO WORK NEEDED
INSTALL MARKER CULVERT PIPE RT AND LT(2)

CULVERT 851 STA 238+88
EXISTING 84" X 120" CONCRETE BOX CULVERT
PIPE CLEANING REQUIRED
INSTALL MARKER CULVERT PIPE RT AND LT (2)

MATCHLINE STA 247+00

5

5

EXISTING BEST FIT PROFILE SHOWN
FOR INFORMATION ONLY

-0.35%

VPC STA 234+37
VPC EL 889.37

VPI STA 235+80.01
VPI EL 889.37

VCL = 300.00
K = 71.44

VPT STA 237+30.01
VPT EL 882.55

VCL = 250.00
K = 56.94

-4.55%

VPC STA 238+01.74
VPC EL 879.28

VPI STA 239+26.74
VPI EL 873.60

VPT STA 240+51.74
VPT EL 873.40

-0.16%

VPC STA 241+71.80
VPC EL 873.21

VCL = 200.00
K = 111.00

VPI STA 242+71.80
VPI EL 873.06

VPT STA 243+71.80
VPT EL 874.70

1.64%

VPC STA 244+15.24
VPC EL 875.42

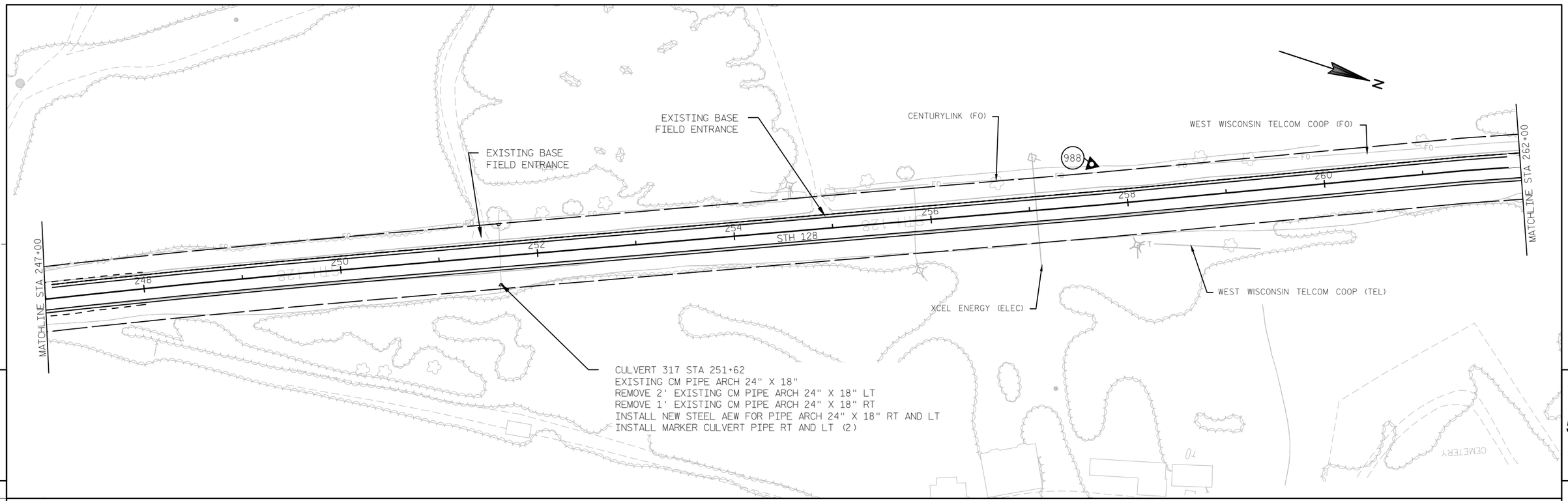
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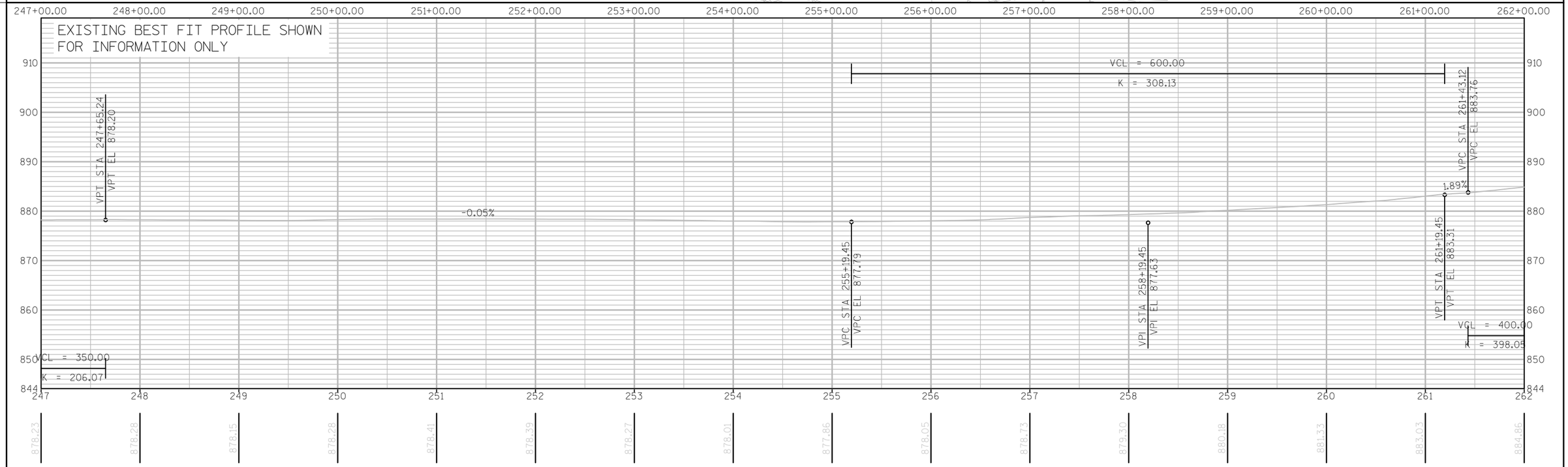
VPI STA 245+90.24
VPI EL 878.29

890.71 890.19 889.91 889.18 887.24 883.73 879.34 875.64 873.68 873.39 873.40 874.03 875.17 876.78 877.61 878.23

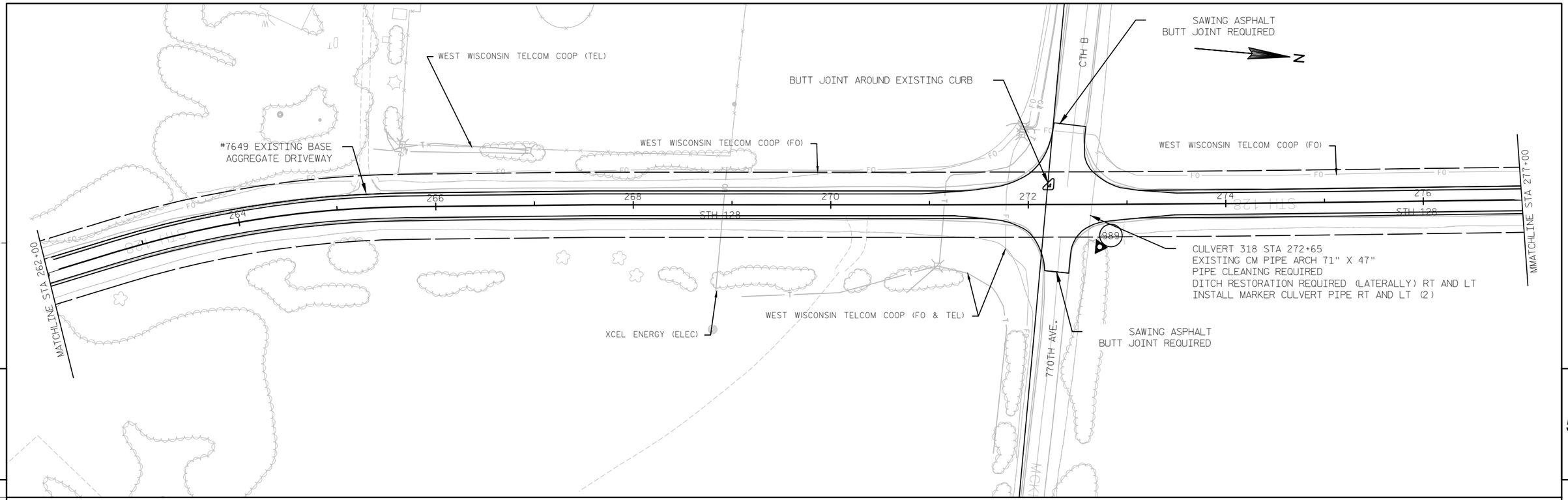
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 101	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\050101_PP_STH128_7105-05-01_100SCALE.DWG PLOT DATE : 9/7/2016 9:01 AM PLOT BY : QUEST CIVIL ENG PLOT NAME : ---------- PLOT SCALE : 1" = 100'_XREF





PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 102	E



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 103	E

CULVERT 852 STA 283+06
EXISTING 84" X 120" CONCRETE BOX
PIPE CLEANING REQUIRED
DITCH RESTORATION REQUIRED (LATERALLY) RT AND LT
INSTALL MARKER CULVERT PIPE RT AND LT (2)

STA 282+50 - STA 283+62 LT INSTALL MGS GUARDRAIL 3L
STA 283+62 - STA 284+12 INSTALL MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT REQUIRED

MGS GUARDRAIL TERMINAL EAT REQUIRED
REDUCE TERMINAL HEAD OFFSET TO 1'
3:1 SLOPE REQUIRED

WEST WISCONSIN TELCOM COOP (FO)

WEST WISCONSIN TELCOM COOP (FO & TEL)

MATCHLINE STA 277+00

MATCHLINE STA 292+00

STH 128

STA 282+00 - STA 282+50 RT INSTALL MGS GUARDRAIL 3
STA 282+50 - STA 283+62 RT INSTALL MGS GUARDRAIL 3L
MGS GUARDRAIL TERMINAL EAT REQUIRED

MGS GUARDRAIL TERMINAL EAT REQUIRED
REDUCE TERMINAL HEAD OFFSET TO 1'
3:1 SLOPE REQUIRED

EXISTING BEST FIT PROFILE SHOWN
FOR INFORMATION ONLY

VCL = 800.00
K = 305.65

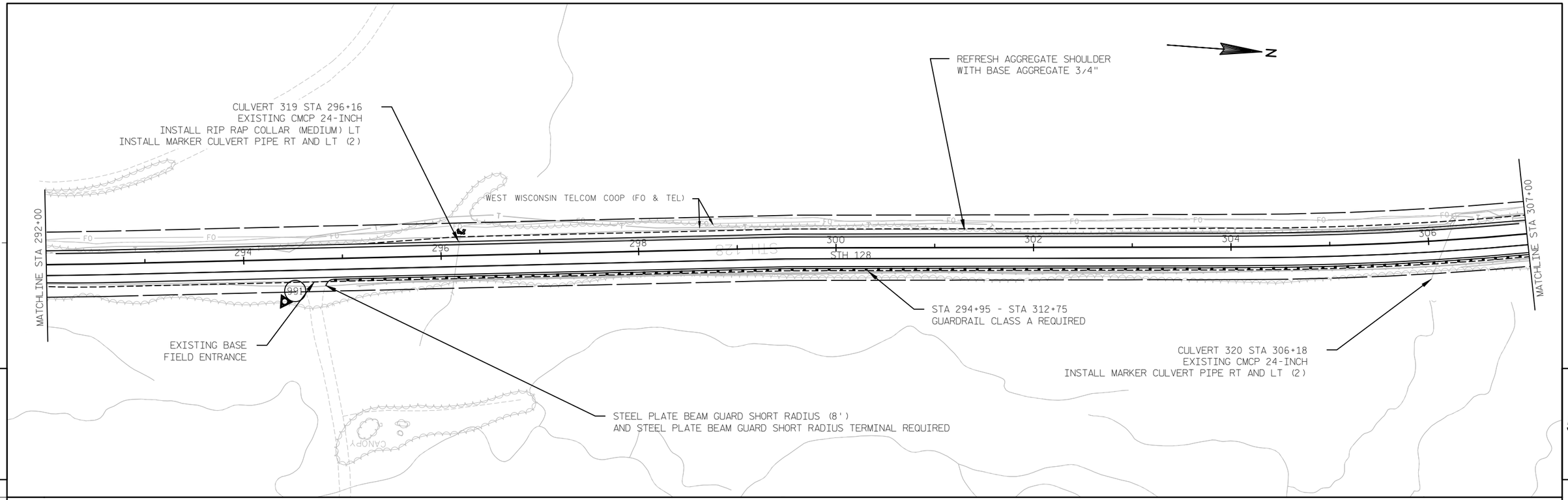
2.90%

VPC STA 278+24.20
VPC EL 896.46

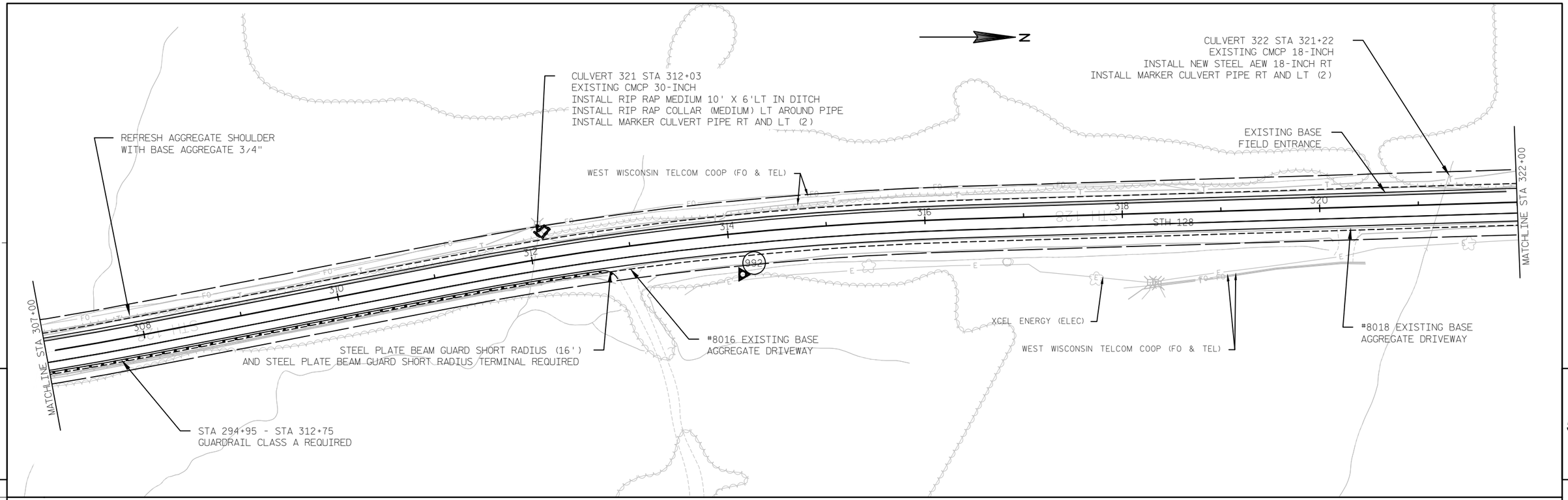
VPI STA 282+24.20
VPI EL 897.59

VPT STA 286+24.20
VPT EL 909.20

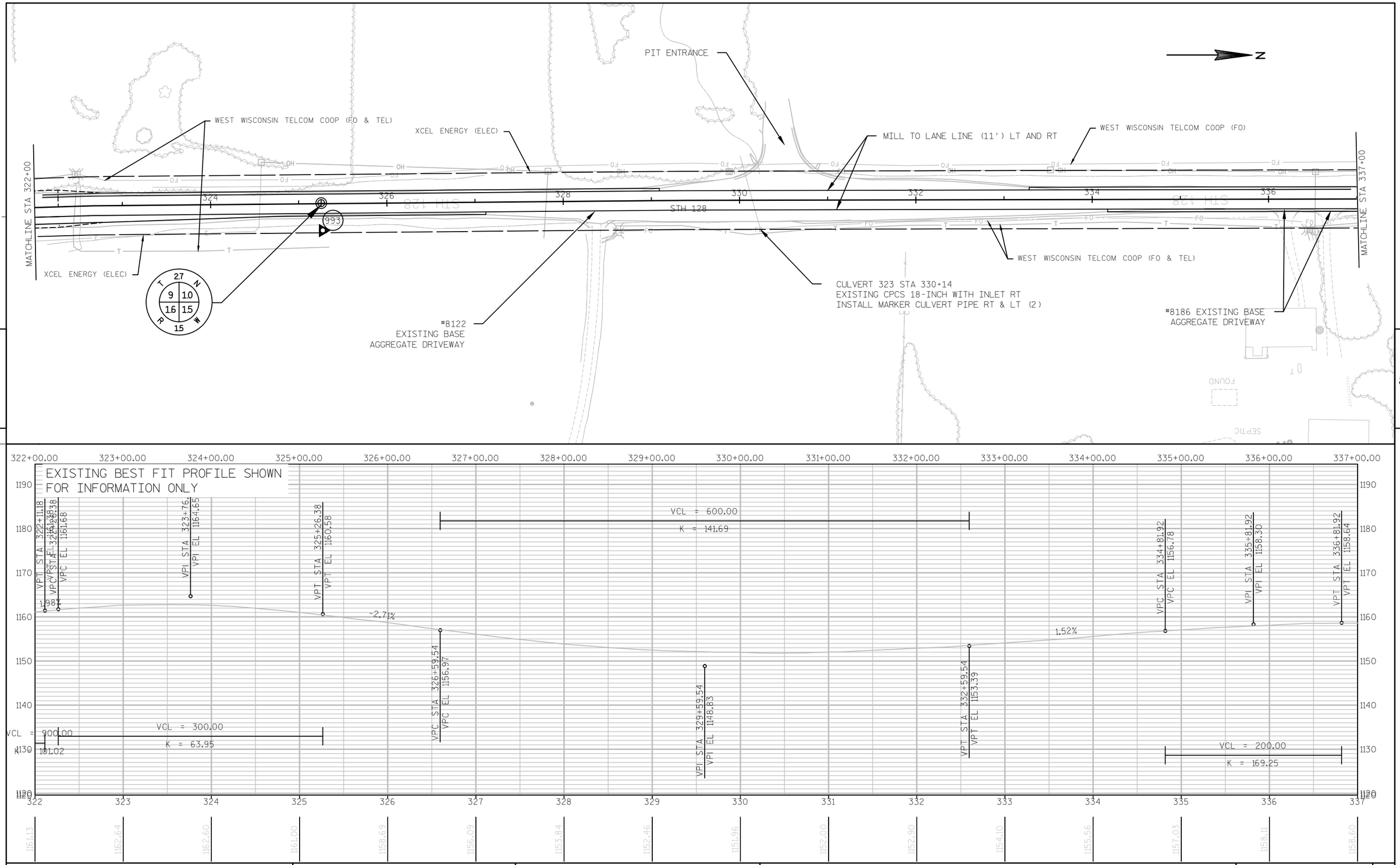
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 104	E



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 105	E



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 106	E



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 107	E

CULVERT 324 STA 338+18
EXISTING CMCP 15-INCH
REMOVE 1' EXISTING CMCP 15-INCH LT
REMOVE 3' EXISTING CMCP 15-INCH RT
INSTALL 3' NEW CPCS 15-INCH RT
INSTALL NEW STEEL AEW 15-INCH LT
DITCH RESTORATION REQUIRED RT AND LT
(LONGITUDINAL AND LATERALLY)
INSTALL MARKER CULVERT PIPE RT AND LT (2)

CULVERT 325 STA 341+62
EXISTING CMCP 30-INCH
PIPE CLEANING REQUIRED
DITCH RESTORATION REQUIRED (LAT), RT
INSTALL MARKER CULVERT PIPE RT AND LT (2)

N

T 27 N
R 9 10 W
15

WEST WISCONSIN TELCOM COOP (FO)

XCEL ENERGY (ELEC)

*8261 EXISTING BASE AGGREGATE DRIVEWAY

EXISTING BASE AGGREGATE FIELD ENTRANCE

EXISTING BASE FIELD ENTRANCE

MATCHLINE STA 337+00

994

995

MATCHLINE STA 352+00

338 340 342 344 346 348 350

STH 128

EXISTING BASE FIELD ENTRANCE

WEST WISCONSIN TELCOM COOP (FO & TEL)

*8238 EXISTING BASE AGGREGATE DRIVEWAY

EXISTING DIRT FIELD ENTRANCE

5

5

EXISTING BEST FIT PROFILE SHOWN
FOR INFORMATION ONLY

337+00.00 338+00.00 339+00.00 340+00.00 341+00.00 342+00.00 343+00.00 344+00.00 345+00.00 346+00.00 347+00.00 348+00.00 349+00.00 350+00.00 351+00.00 352+00.00

1200 1190 1180 1170 1160 1150 1140 1135

337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352

VCL = 400.00
K = 86.58

VCL = 350.00
K = 44.23

0.34%

4.96%

VPC STA 341+93.83
VPC EL 1160.38

VPI STA 343+93.83
VPI EL 1161.06

VPT STA 345+93.83
VPT EL 1170.98

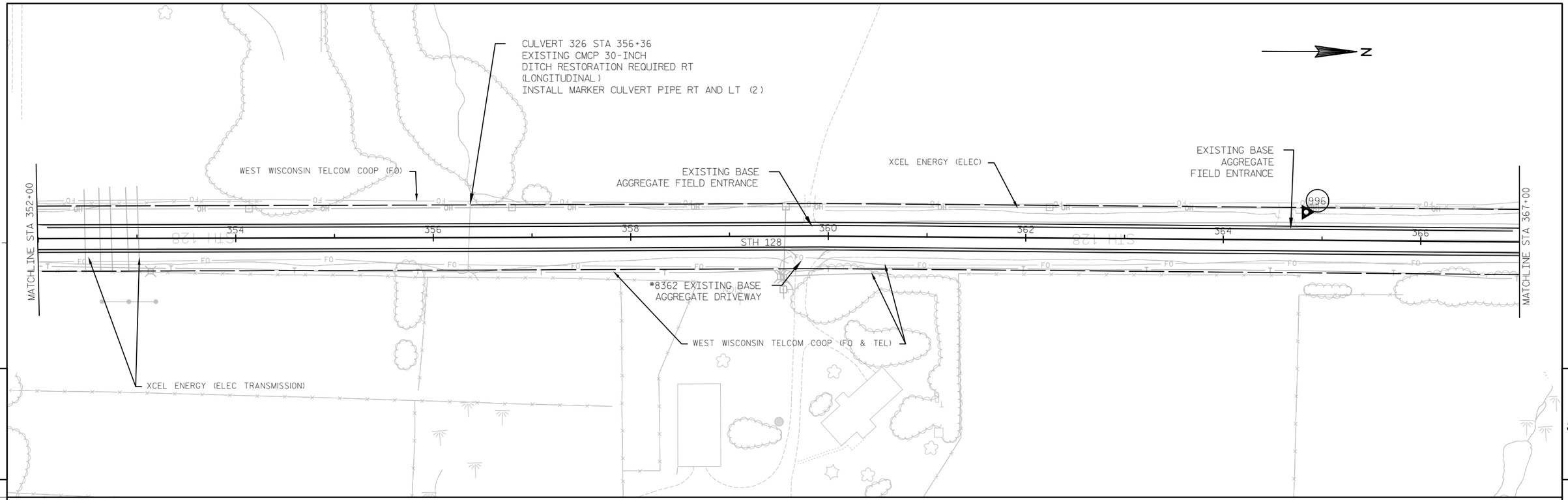
VPC STA 347+84.74
VPC EL 1180.44

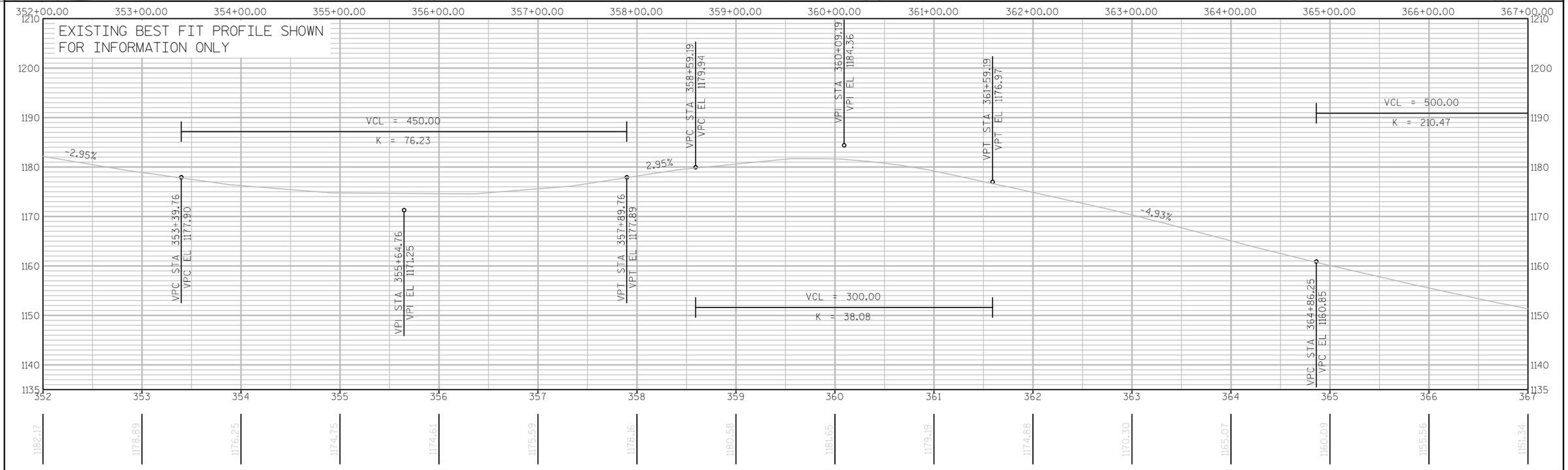
VPI STA 349+59.74
VPI EL 1189.12

VPT STA 351+34.74
VPT EL 1183.96

1158.60 1158.70 1159.04 1159.50 1159.82 1160.65 1161.81 1163.51 1166.78 1171.19 1176.38 1181.48 1184.71 1185.35 1184.60 1182.17

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 108	E





PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 109	E

CULVERT 327 STA 368+36
EXISTING CMCP 24-INCH
INSTALL RIP RAP LIGHT LT 8'X 4'
INSTALL MARKER CULVERT PIPE RT AND LT (2)

WEST WISCONSIN
TELCOM COOP (FO)

CULVERT 328 STA 372+86
EXISTING CMCP 48-INCH
INSTALL RIP RAP MEDIUM LT 15' X 5'
MAINTAIN 2' MIN O/S FROM BASE OF POLE
DITCH RESTORATION REQUIRED RT
INSTALL MARKER CULVERT PIPE RT AND LT (2)

#8457 EXISTING BASE
AGGREGATE DRIVEWAY

#8436 EXISTING BASE
AGGREGATE DRIVEWAY

WEST WISCONSIN TELCOM COOP (FO & TEL)

SAWING ASPHALT
BUTT JOINT REQUIRED

WEST WISCONSIN TELCOM COOP (FO & TEL)

XCEL ENERGY (ELEC)

CULVERT 853 STA 378+22
REMOVE EXISTING CMCP 18-INCH
INSTALL 68' NEW CPCS 18-INCH
LT OFFSET 23.5' INVERT 1143.09
RT OFFSET 42.5' INVERT 1146.02
DITCH RESTORATION LT (REMOVE ROCKS IN DITCH)
INSTALL MARKER CULVERT PIPE RT AND LT (2)

WEST WISCONSIN TELCOM COOP (FO)

EXISTING DIRT
FIELD ENTRANCE

CENTURYLINK (FO)

WEST WISCONSIN TELCOM COOP (FO)

XCEL ENERGY (ELEC)

SAWING ASPHALT
BUTT JOINT REQUIRED

WEST WISCONSIN TELCOM COOP (FO & TEL)

CENTURYLINK (FO)

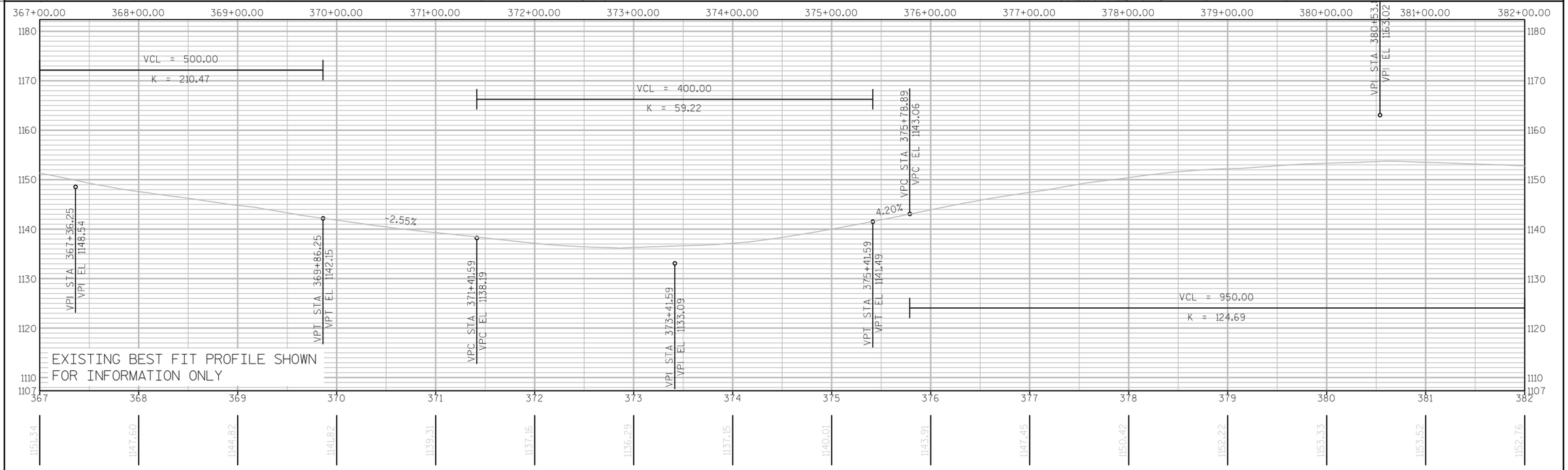
850TH AVE.

MATCHLINE STA 367+00

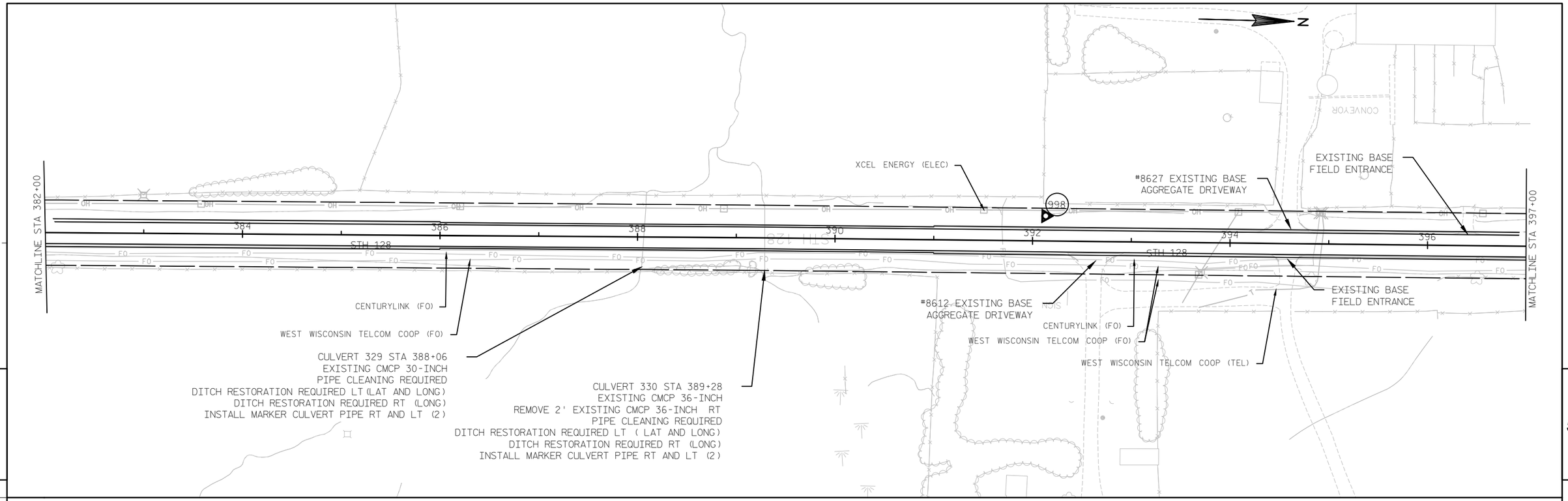
MATCHLINE STA 382+00

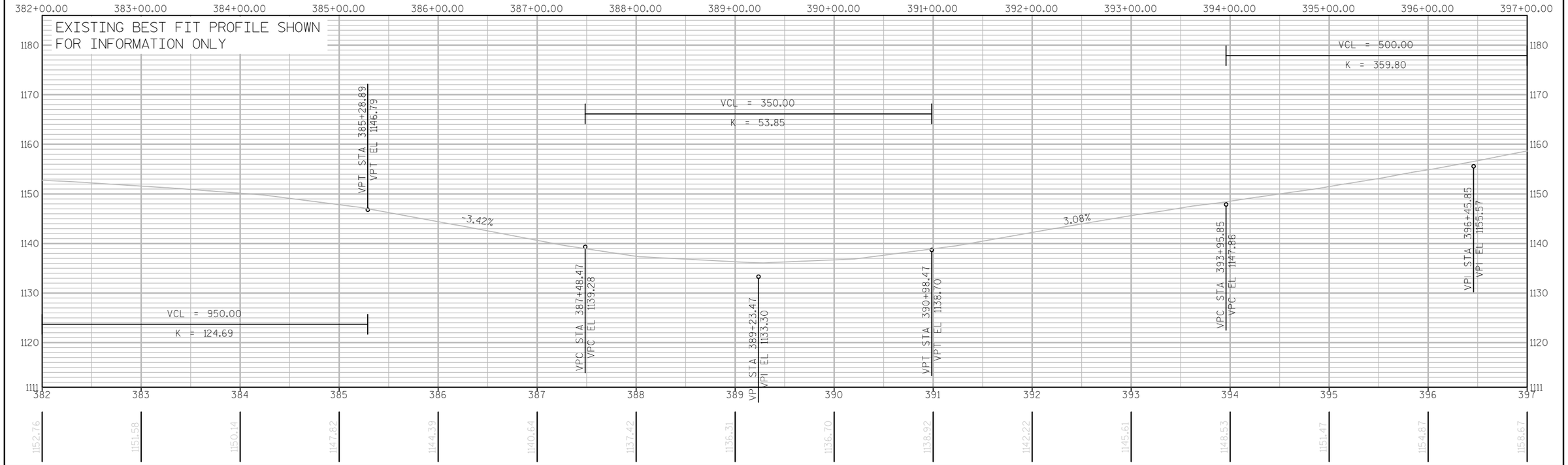
STH 128

T 27 N
R 4 3 W
9 10
15

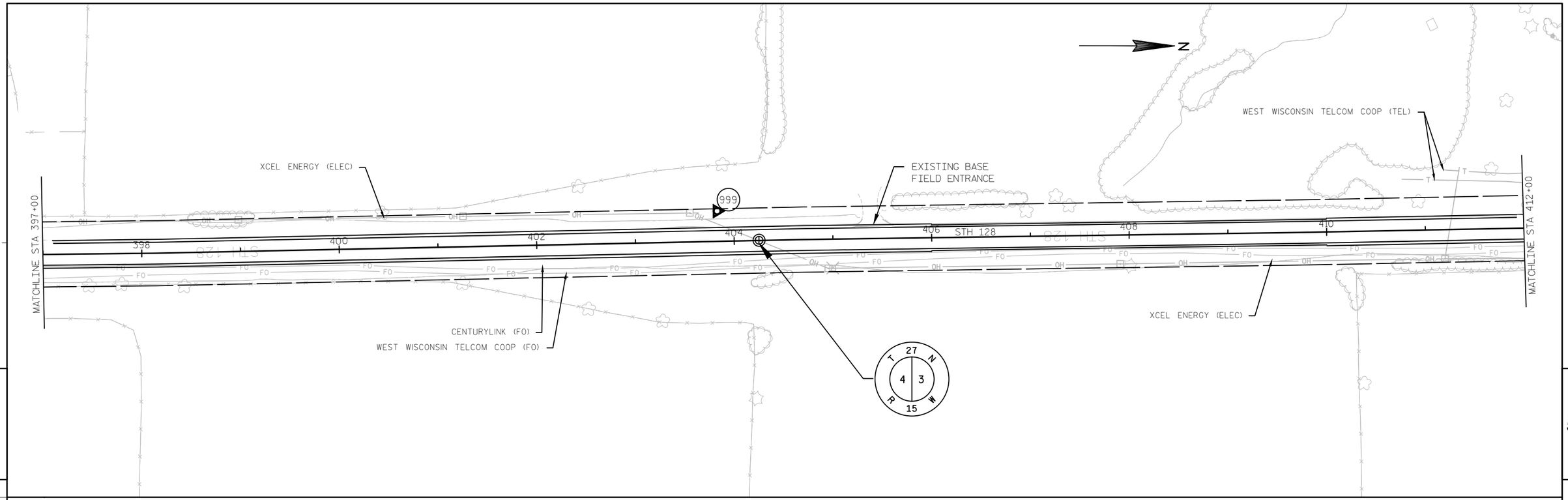


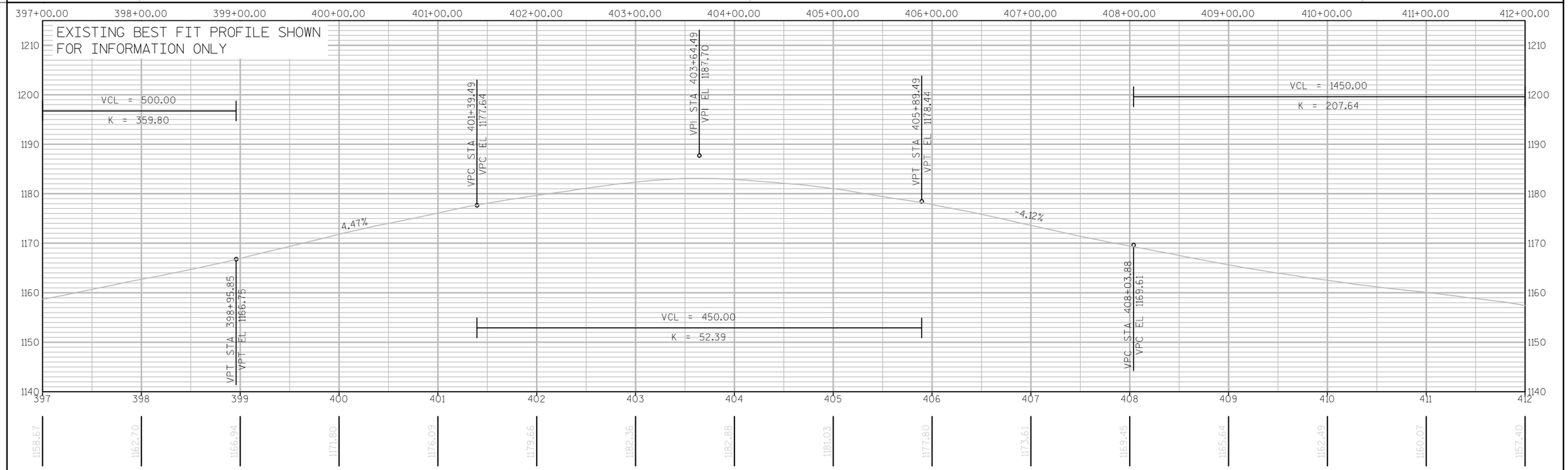
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 110	E



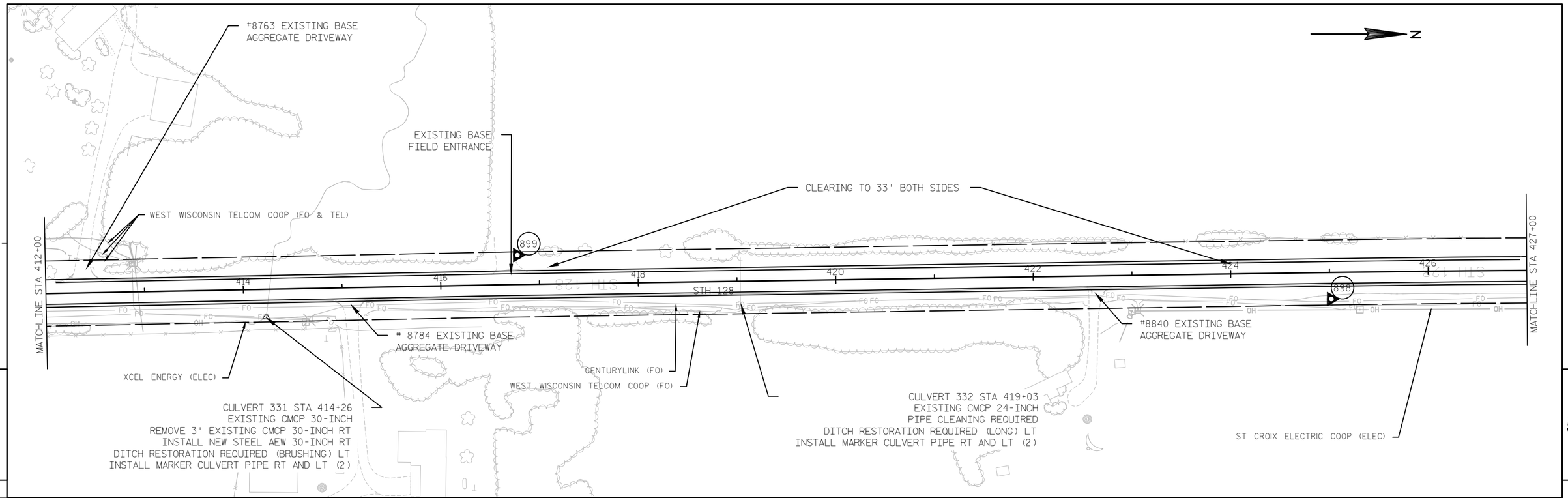


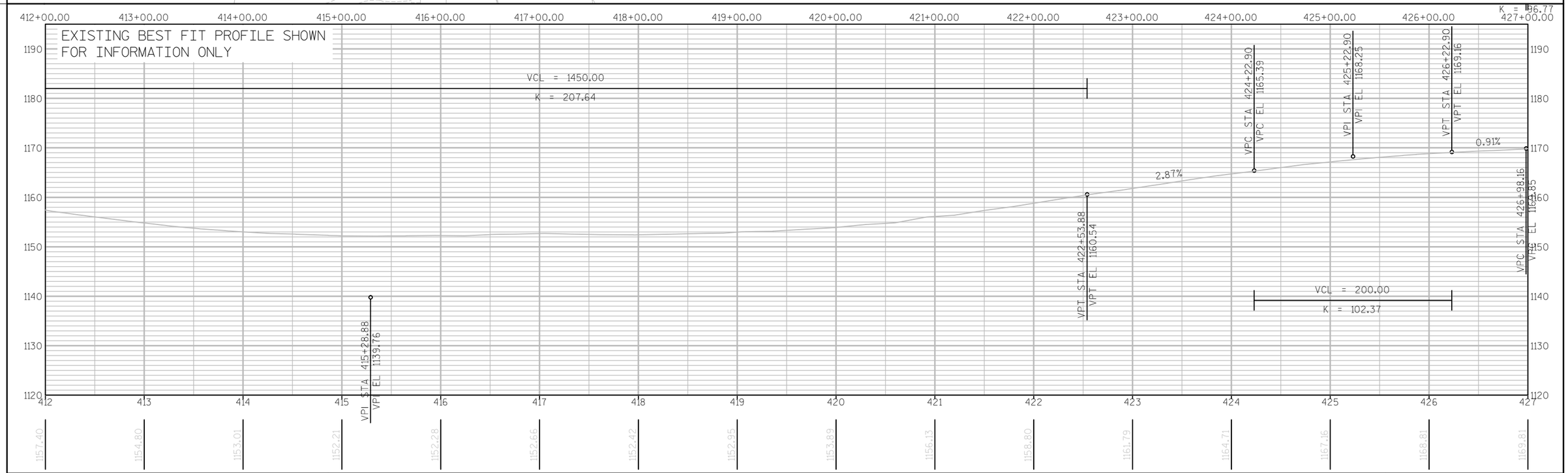
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 111	E



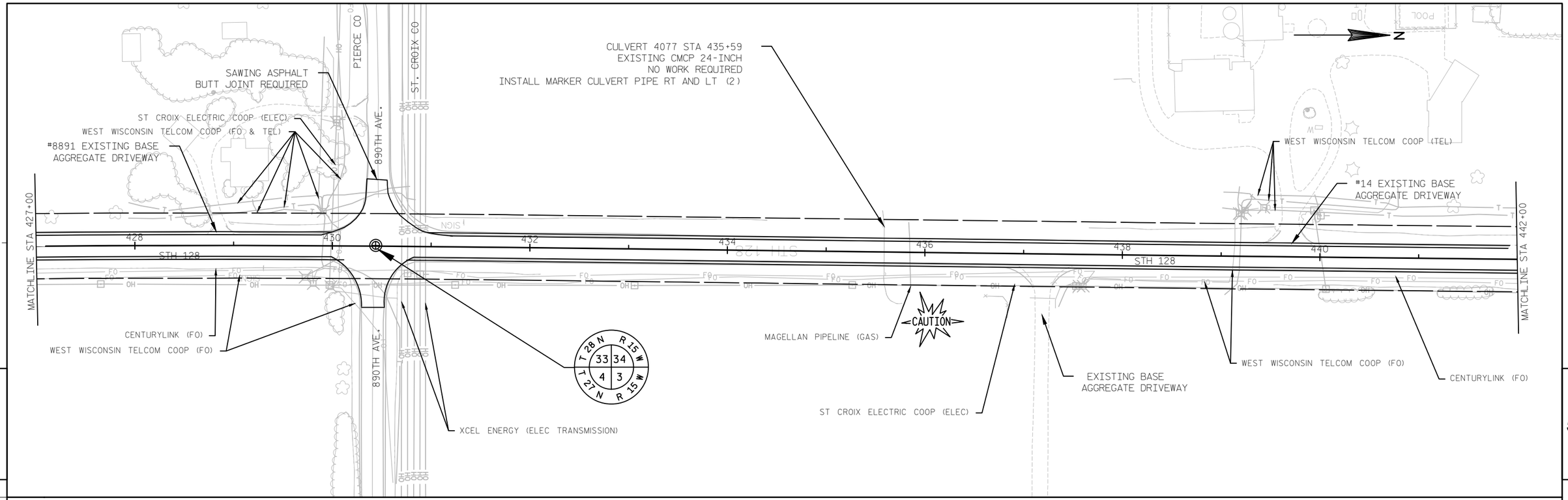


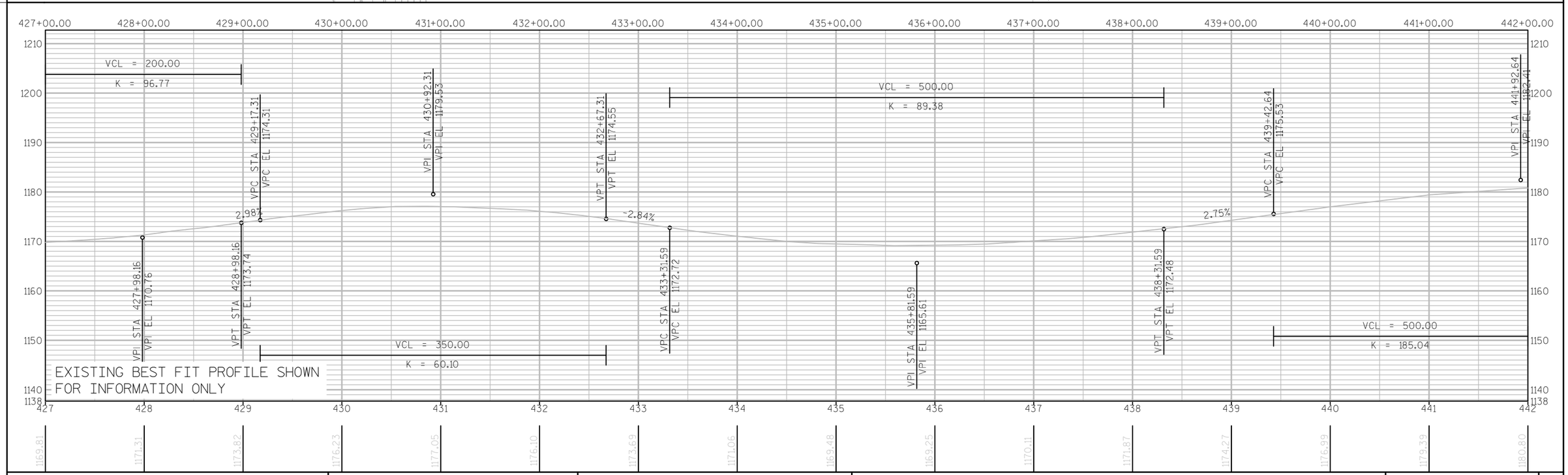
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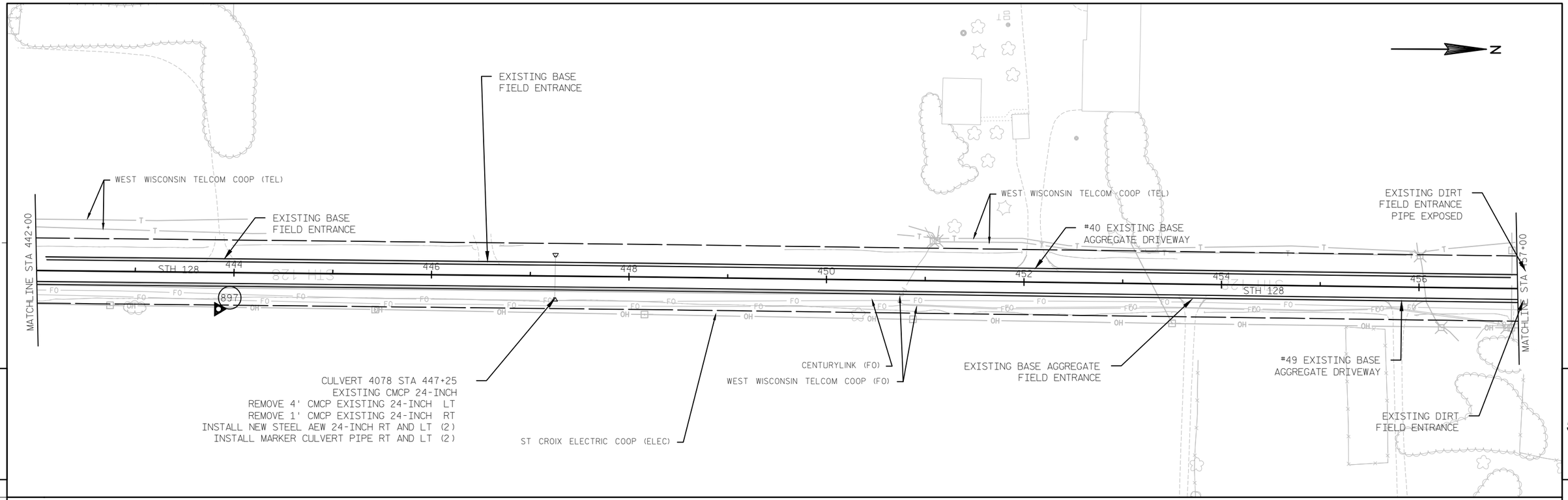


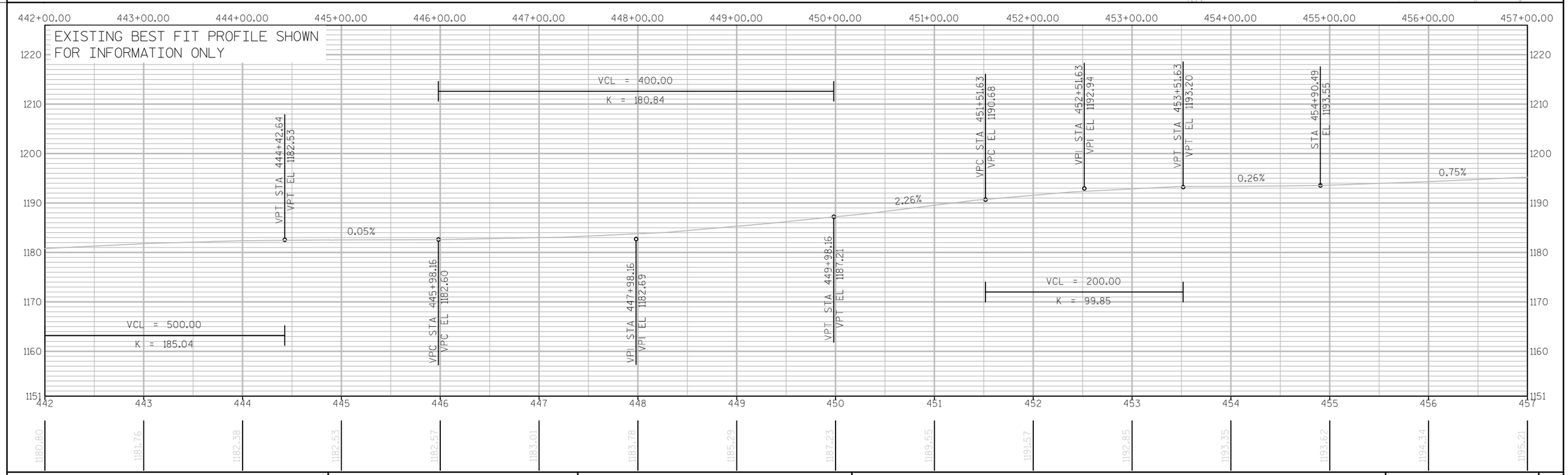
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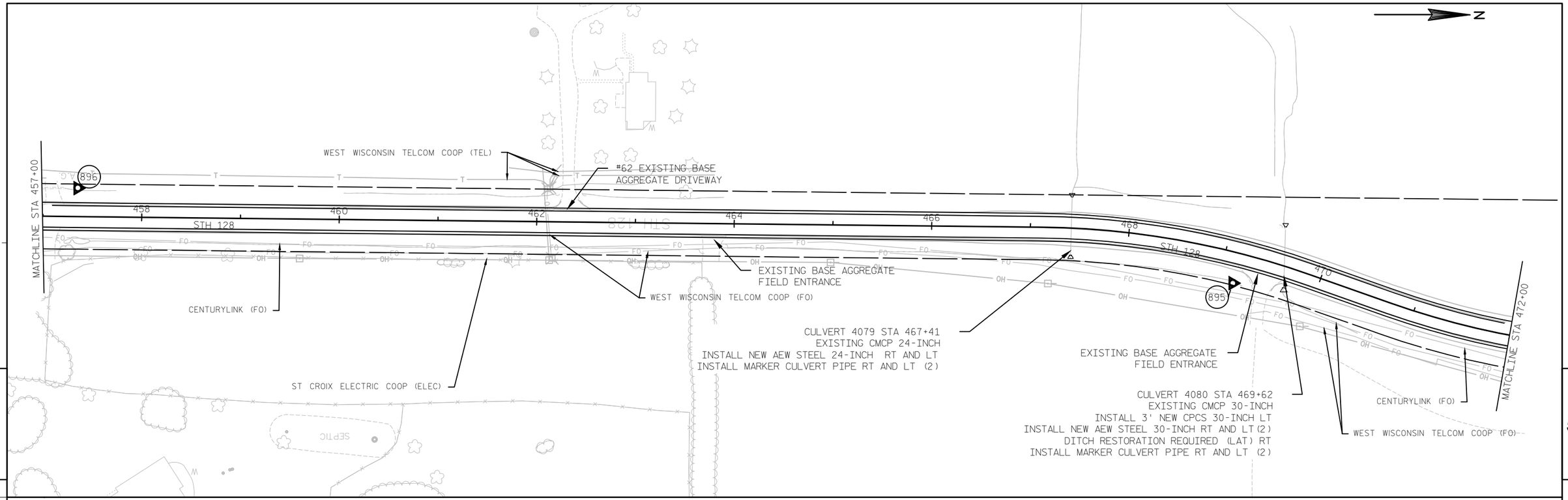


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 114	E





PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 115	E



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 116	E

END PROJECT
STA 477+76
SAWING ASPHALT AND BUTT
JOINT REQUIRED

CAUTION

EXISTING CONCRETE FLUME
TO REMAIN

CAUTION

EXISTING CURB AND GUTTER
BUTT JOINT REQUIRED

MATCHLINE STA 472+00

STH 128

STH 29

CEMETERY

CENTURYLINK (FO)

WEST WISCONSIN TELCOM COOP (FO)

ST CROIX ELECTRIC COOP (ELEC)

N

T 2.8 | N 2.8 2.7 | W 3.3 3.4 | R 1.5

5

5

472+00.00 473+00.00 474+00.00 475+00.00 476+00.00 477+00.00 478+00.00 479+00.00 480+00.00 481+00.00 482+00.00 483+00.00 484+00.00 485+00.00 486+00.00 487+00.00

1240 1230 1220 1210 1200 1190 1180 1173

VCL = 1020.00
K = 132.94

VPC STA 472+57.02
VPC EL 1199.69

4.49%

VPT STA 472+42.88
VPT EL 1199.06

VPI STA 475+07.02
VPI EL 1210.92

VCL = 500.00
K = 266.61

VPT STA 477+57.02
VPT EL 1217.45

2.61%

STA 477+73.49
EL 1217.88

EXISTING BEST FIT PROFILE SHOWN
FOR INFORMATION ONLY

472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487

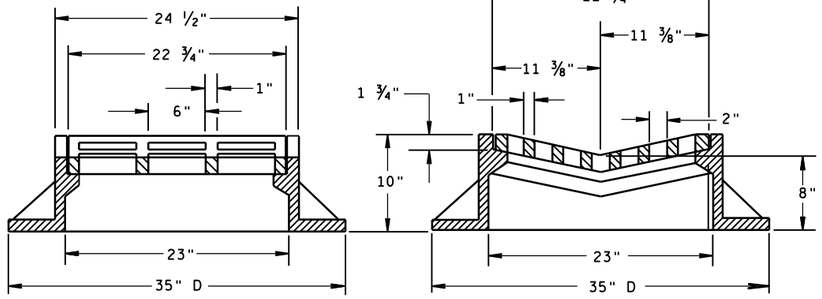
1197.32 1201.77 1205.66 1209.31 1212.76 1215.93 1218.87

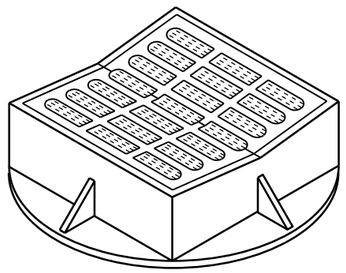
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PLAN AND PROFILE:	SHEET 117	E

Standard Detail Drawing List

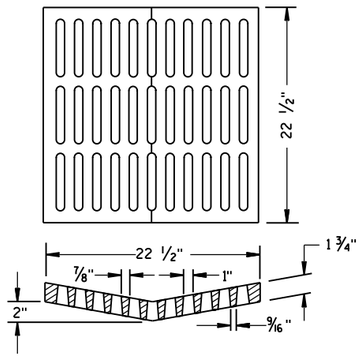
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
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
14B15-08A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
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
14B28-03	GUARDRAIL MOW STRIP
14B29-01	SAFETY EDGE
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-03A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
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)
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
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)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

6



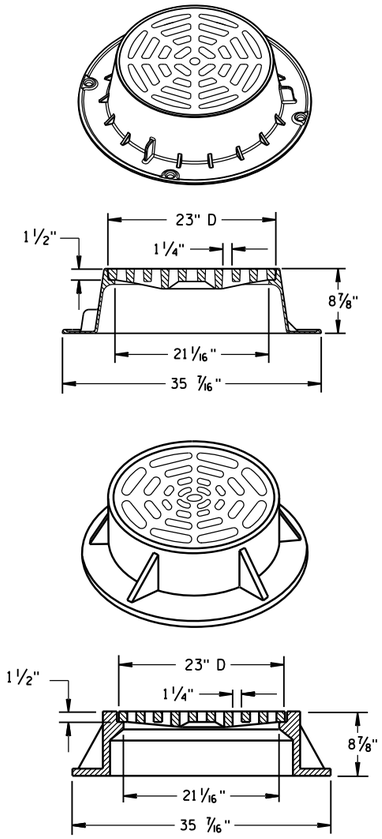


TYPE "B"



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"

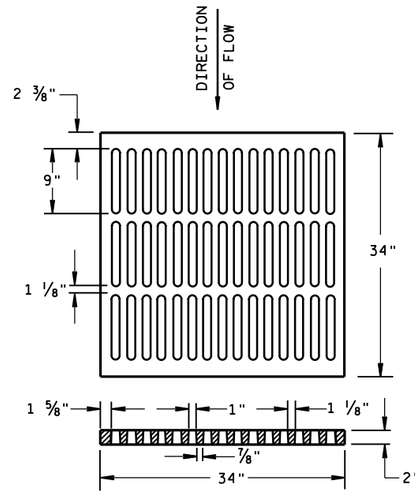
NOTE: EITHER CASTING IS ACCEPTABLE

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.

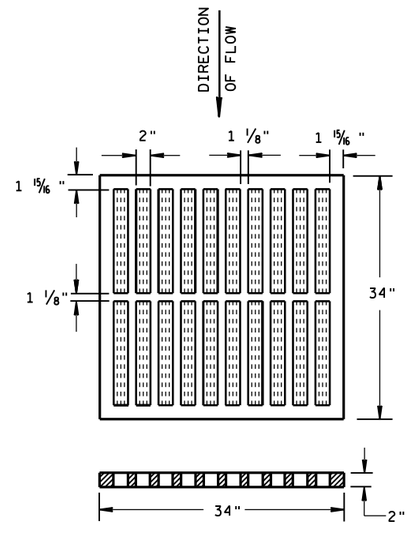
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



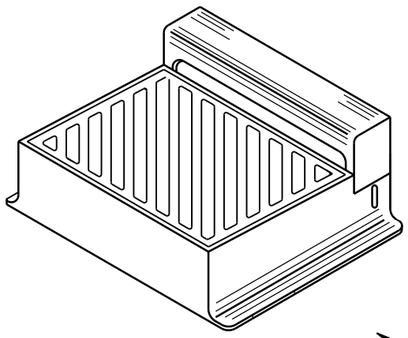
ALTERNATIVE TYPE "MS"

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

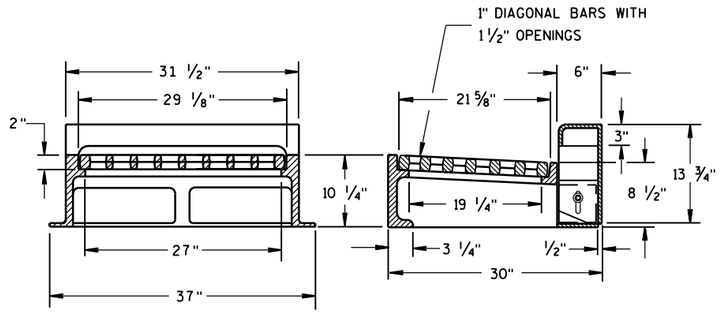


TYPE "MS"

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"

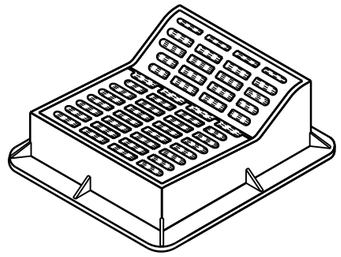
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

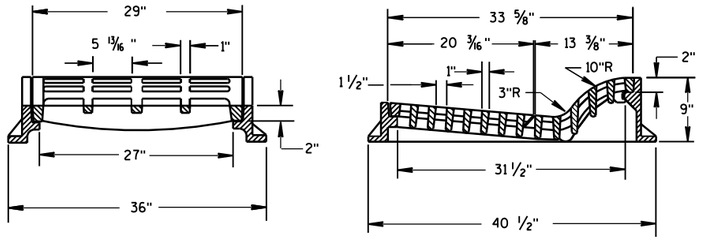
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

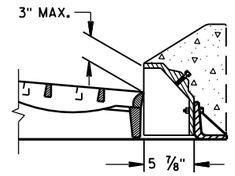
S.D.D. 8 A 5-19b





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

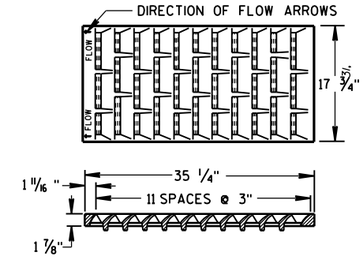
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

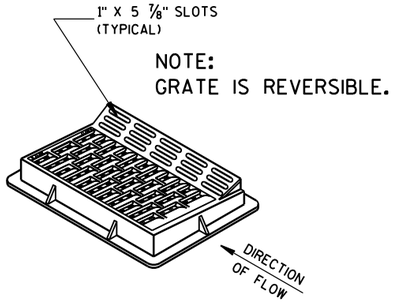
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

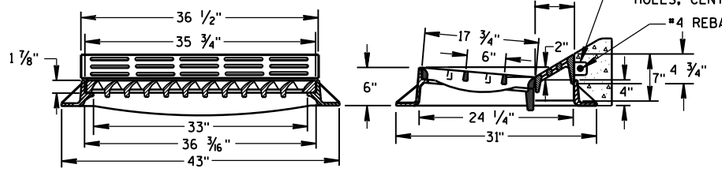
GENERAL NOTES

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.



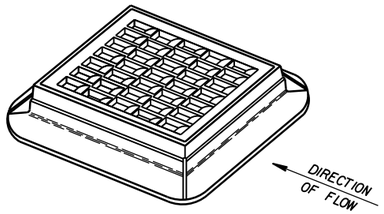


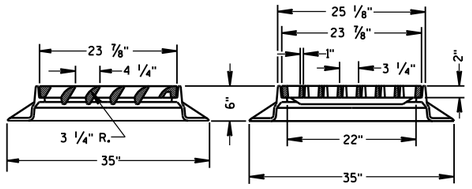


TYPE "HM"

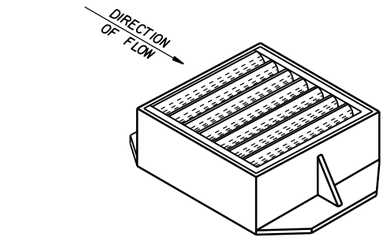
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

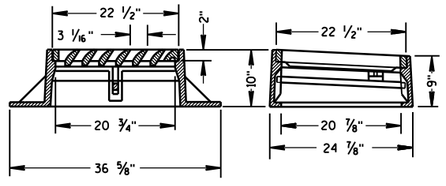
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



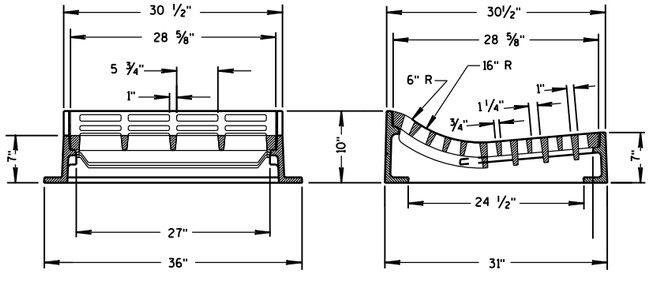


TYPE "S"



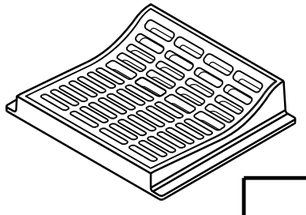


TYPE "V"



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

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APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

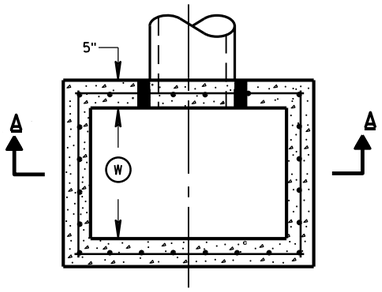
FHWA

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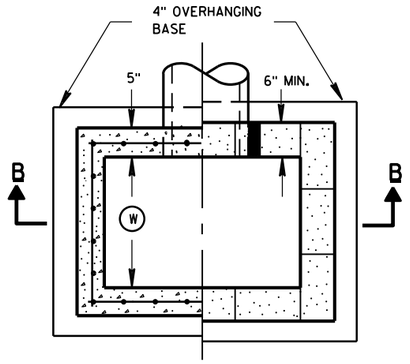
S.D.D. 8 A 5-19c

6

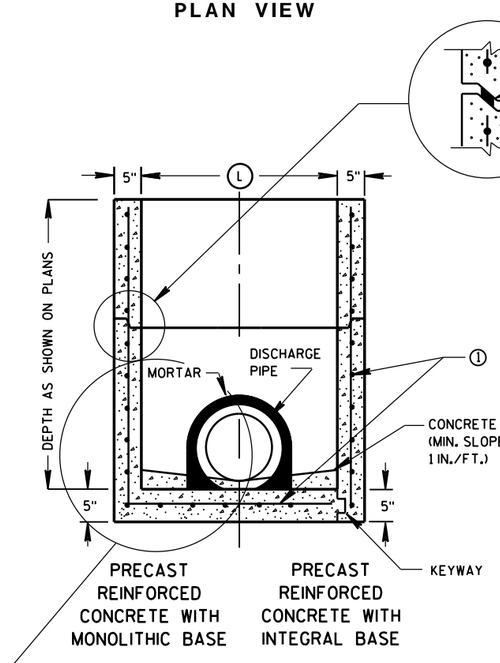
S.D.D. 8 A 5-19c



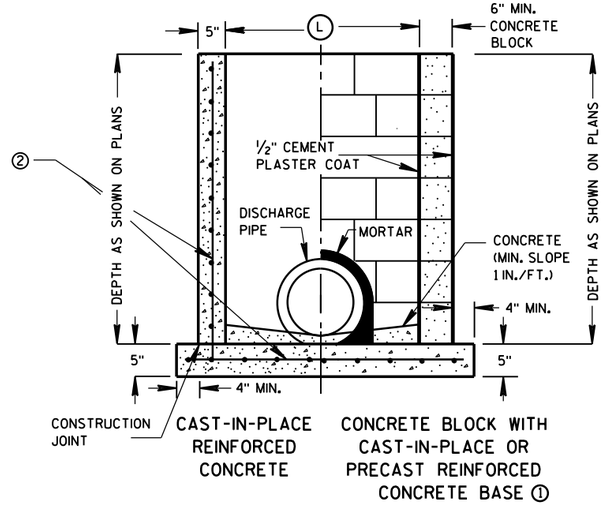
PLAN VIEW



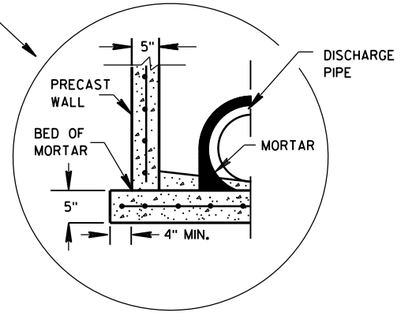
PLAN VIEW



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 GRANULAR 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.

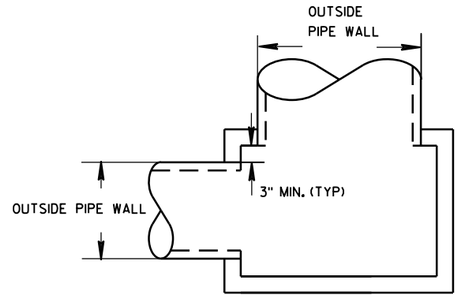
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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

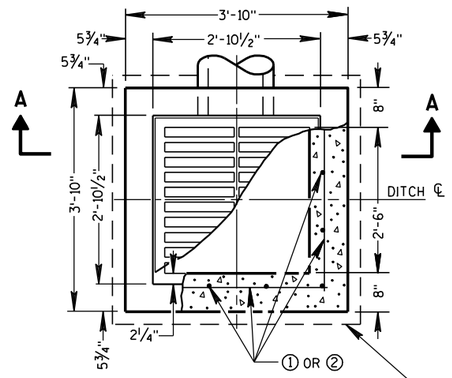
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012
DATE
FHWA

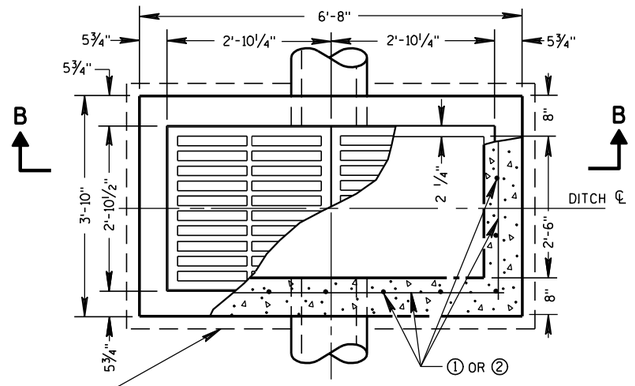
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE ENGINEER

6

S.D.D. 8 C 7-1

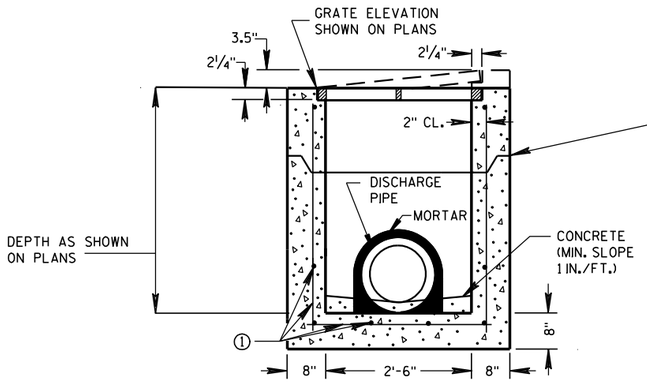


PLAN VIEW

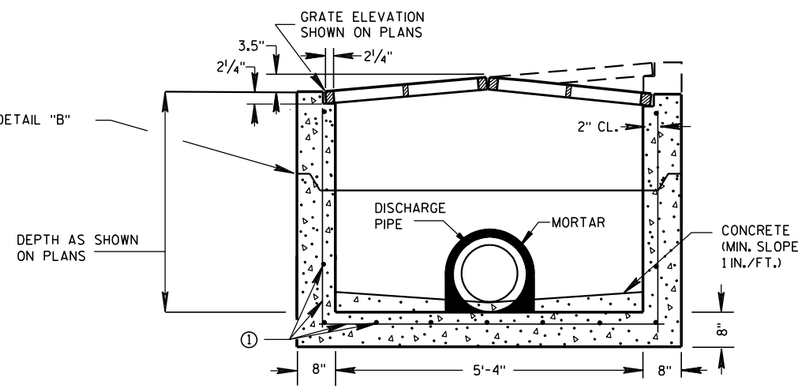


PLAN VIEW

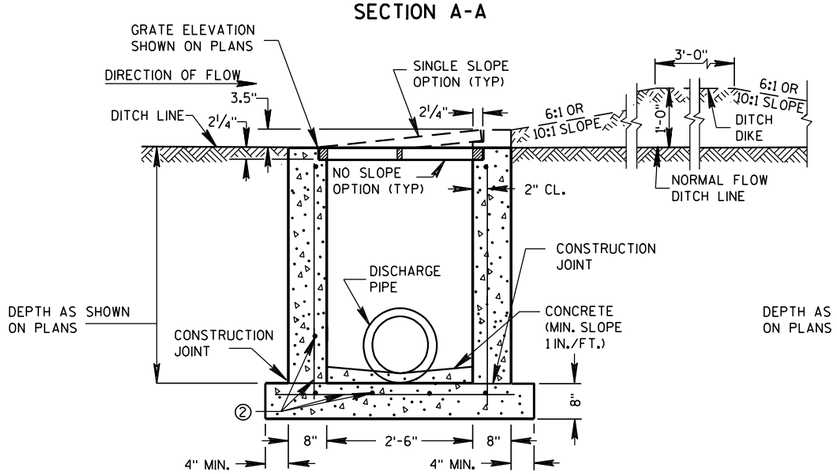
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



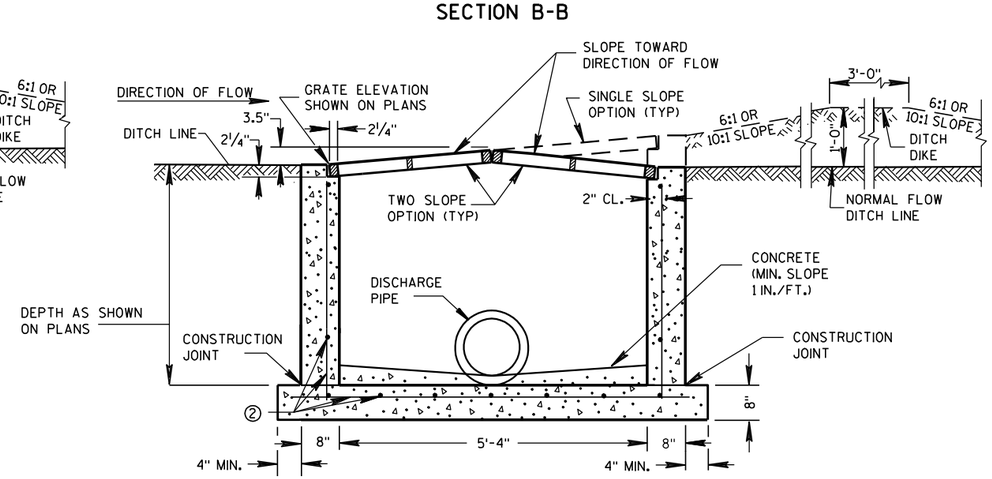
PRECAST REINFORCED CONCRETE SECTION A-A



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.

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.

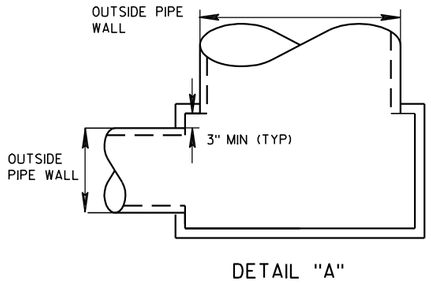
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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.

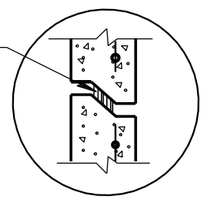
PIPE MATRIX

	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

STATE OF WISCONSIN
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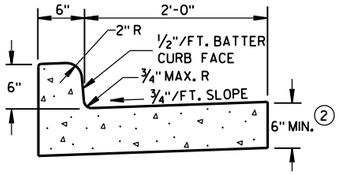
APPROVED

6/5/2012
DATE

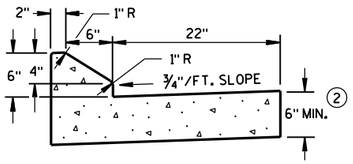
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

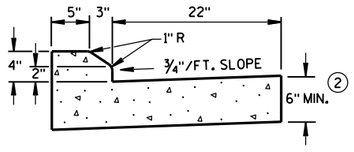
6
S.D.D. 8 C 8-1



TYPES A & D ①

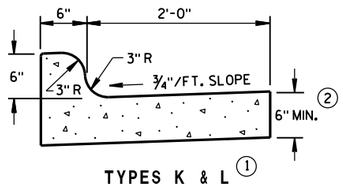


6" SLOPED CURB TYPES G & J ①

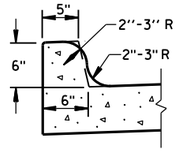


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

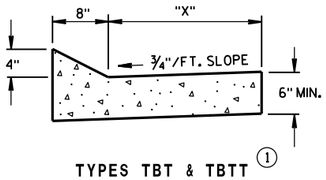


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

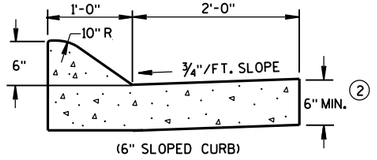
CONCRETE CURB & GUTTER 30"



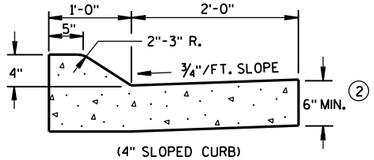
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

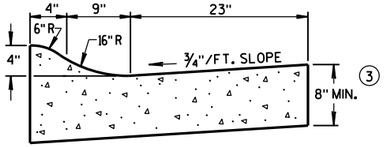


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

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.

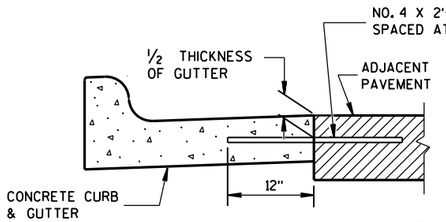
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

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.

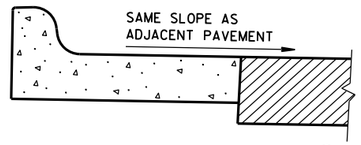
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

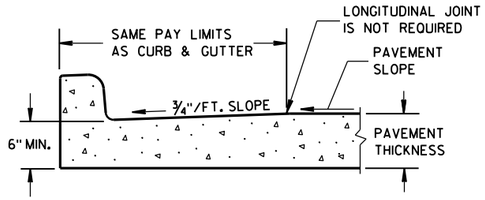
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



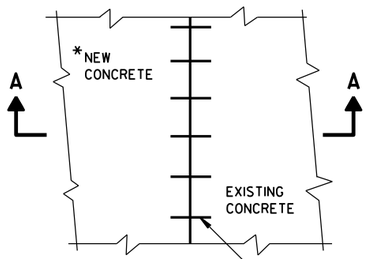
TYPICAL TIE BAR LOCATION ①



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)

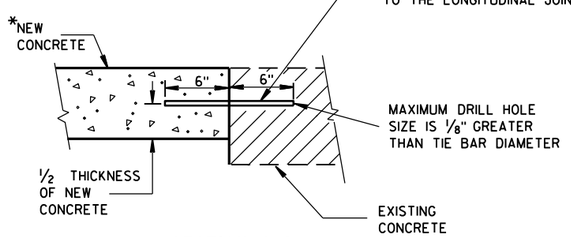


PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



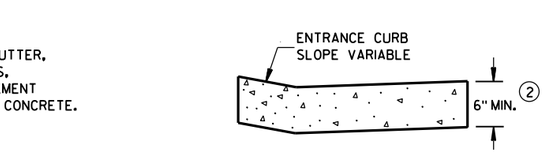
PLAN VIEW

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

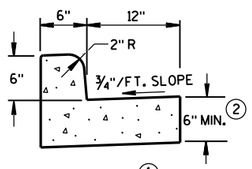


SECTION A-A

TIE BARS DRILLED
INTO EXISTING PAVEMENT

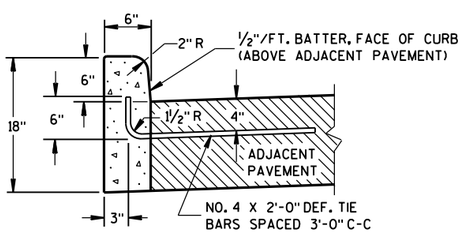


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

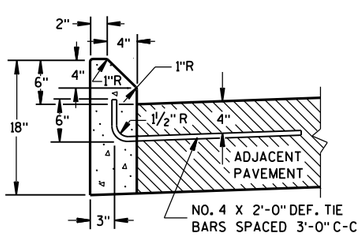


① TYPES A & D

CONCRETE CURB & GUTTER 18"

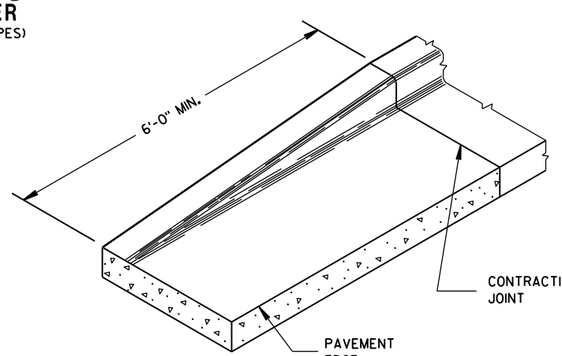


① TYPES A & D



① TYPES G & J

CONCRETE CURB



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

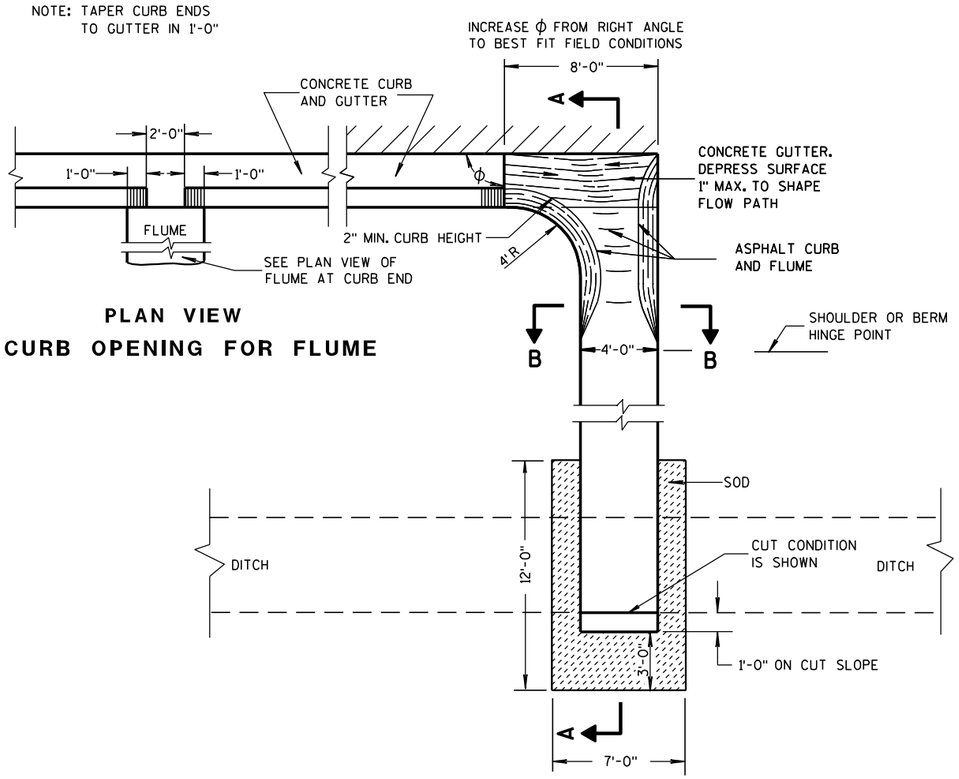
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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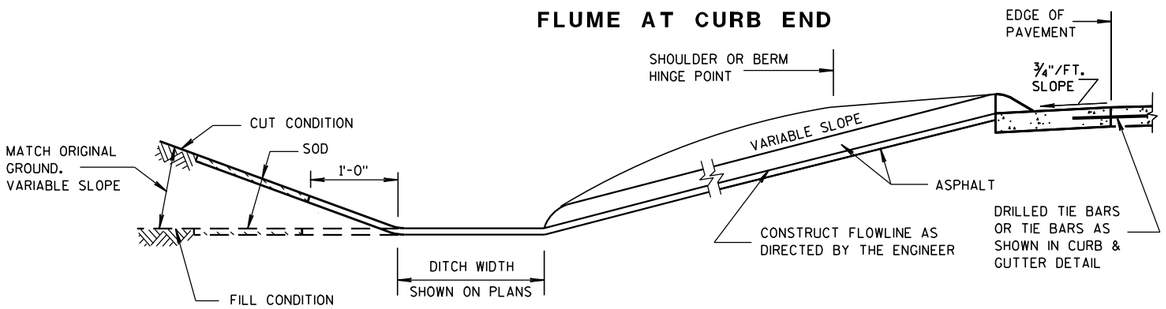
S.D.D. 8 D 1-18

ASPHALTIC FLUME

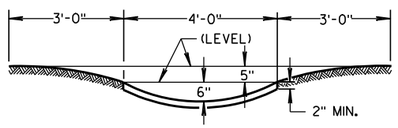


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

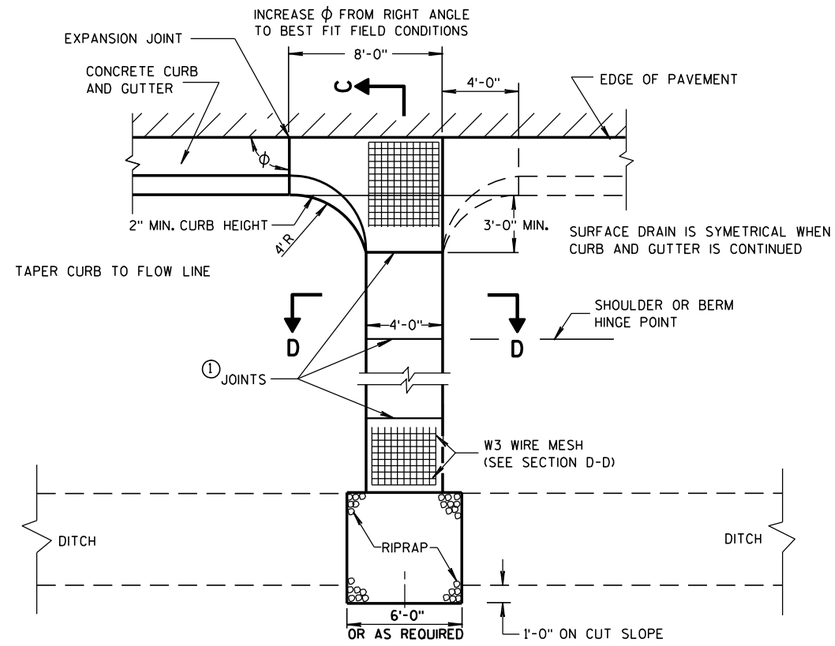
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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

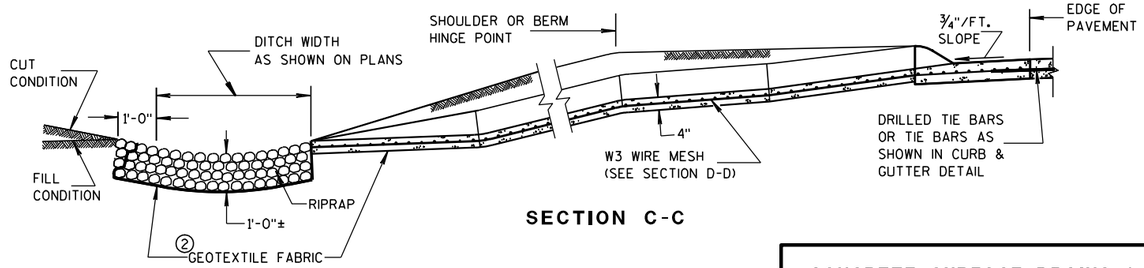
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

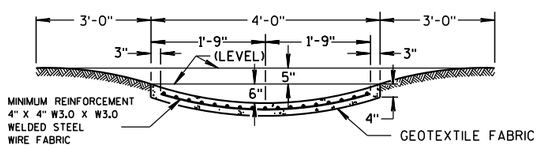
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



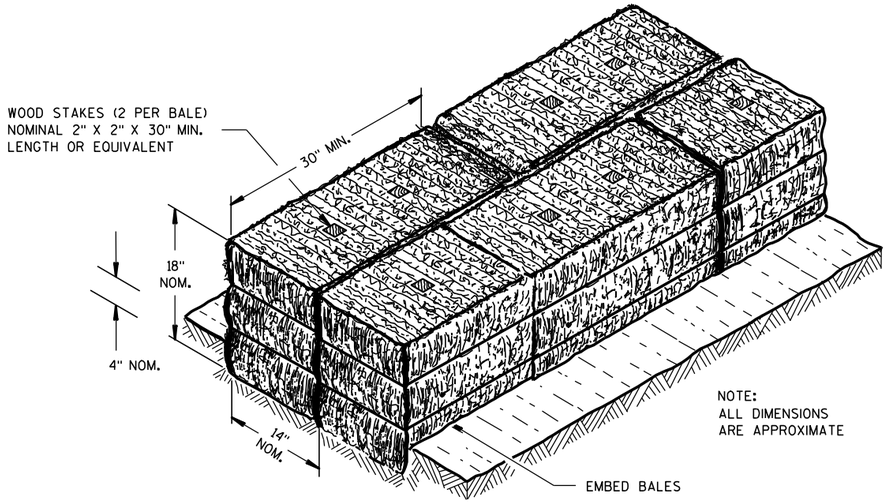
SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

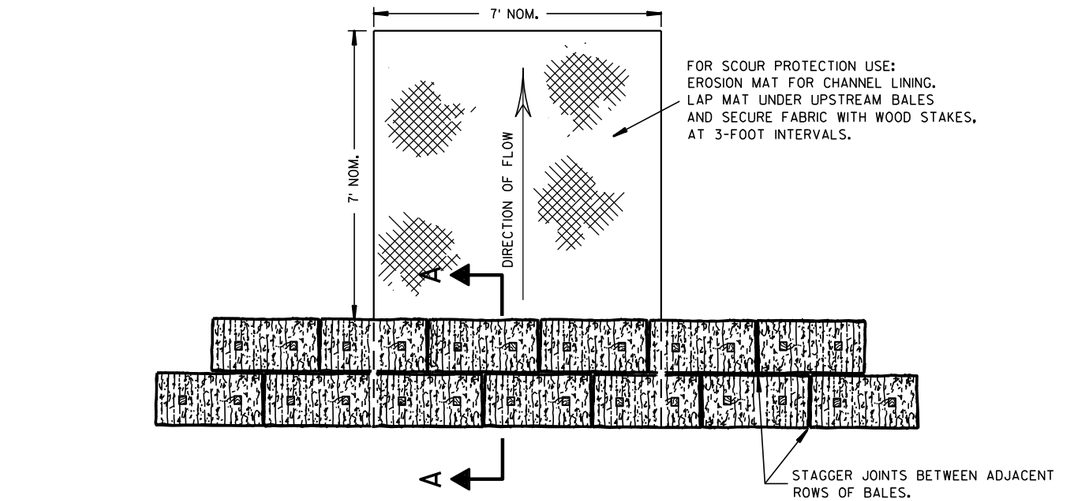
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

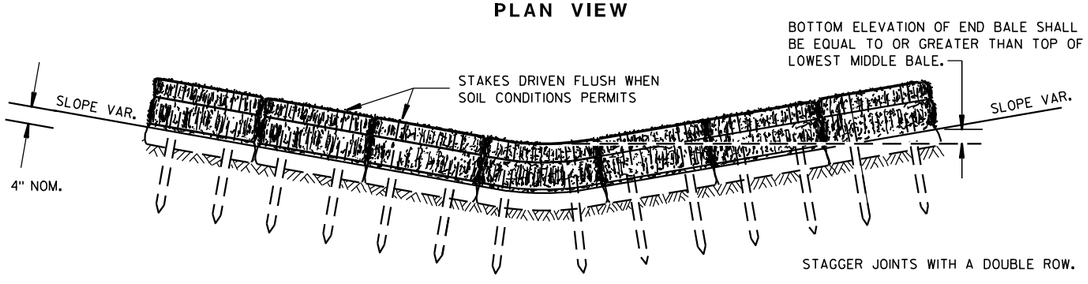
6
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



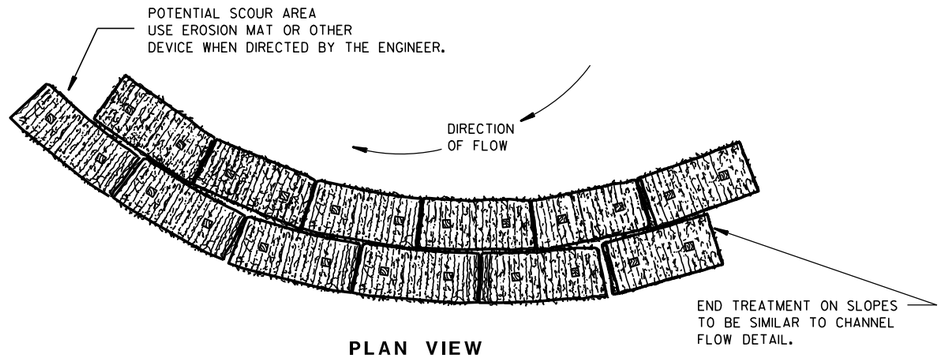
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

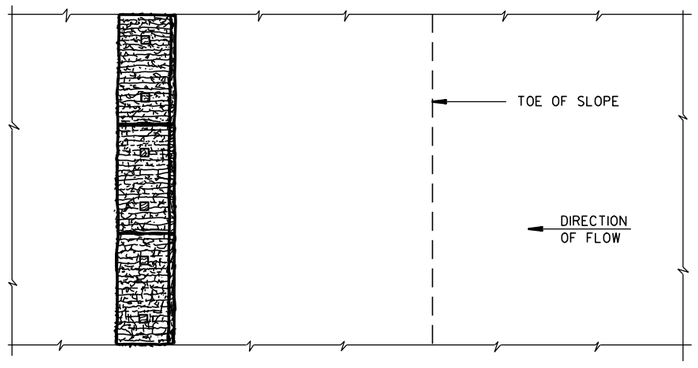
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

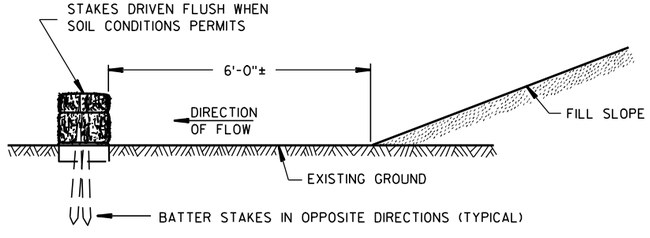


PLAN VIEW

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

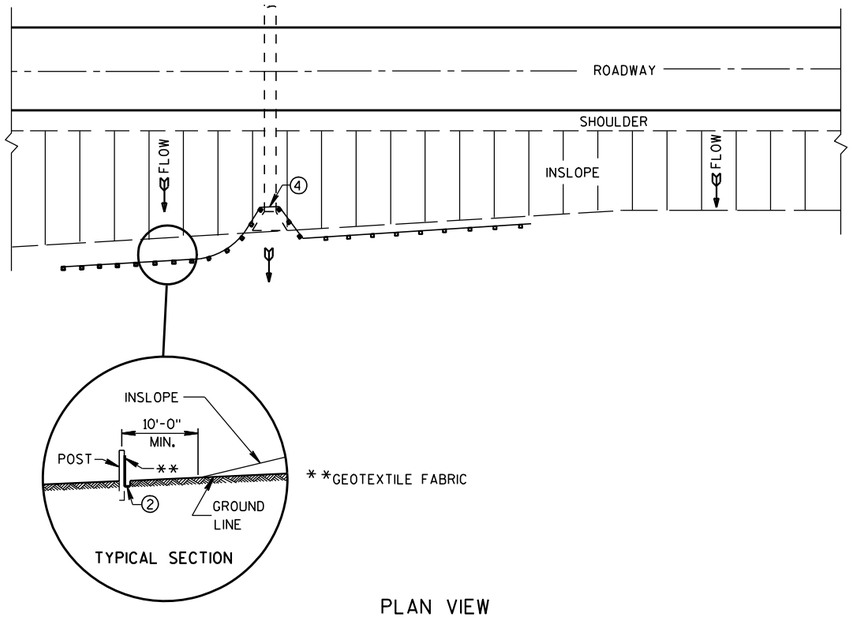
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

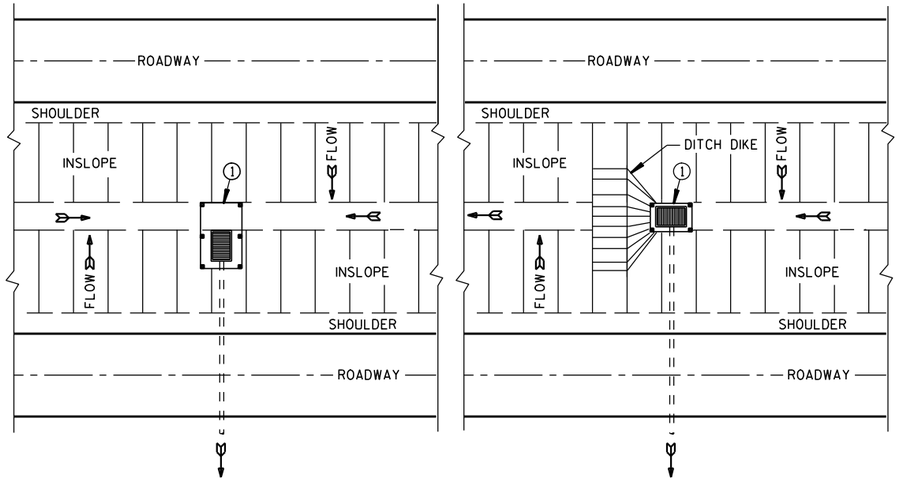
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



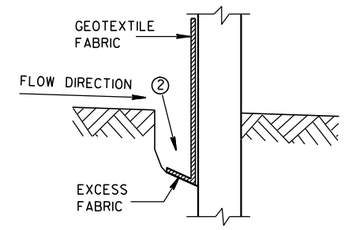
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

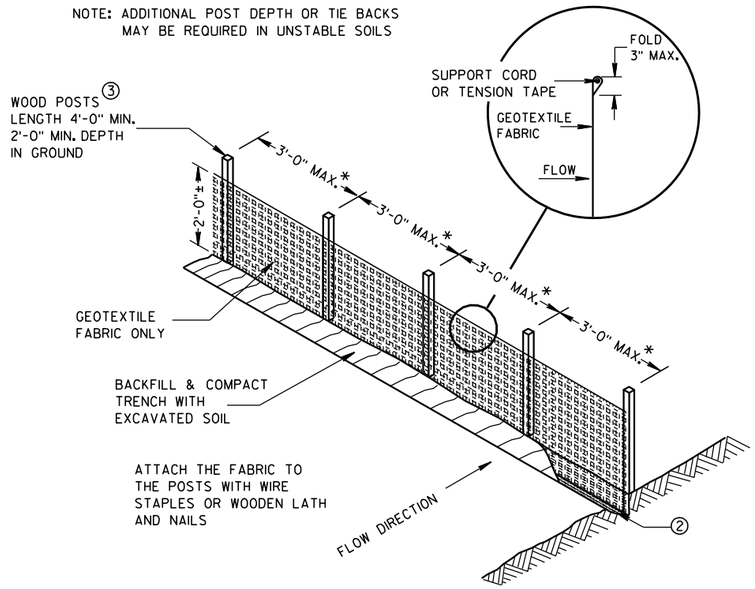
GENERAL NOTES

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

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

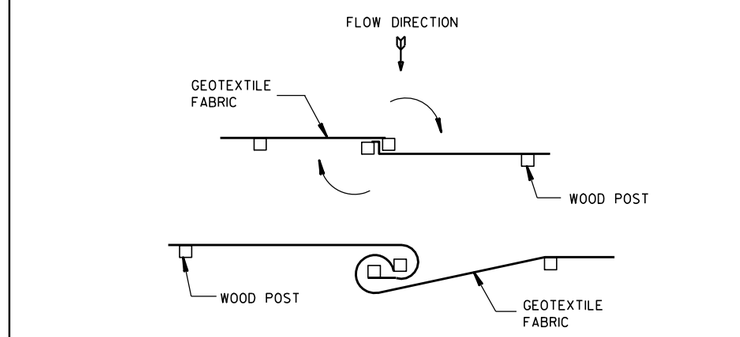


TRENCH DETAIL

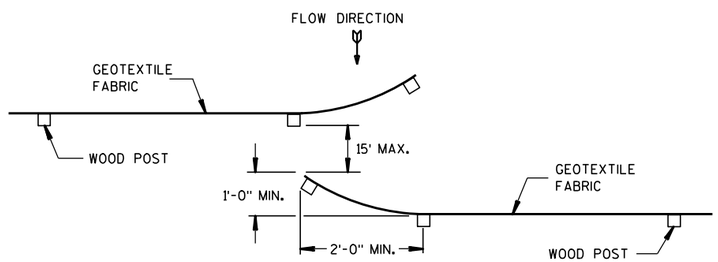


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

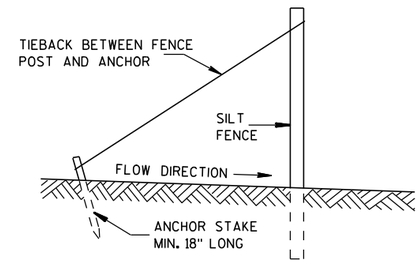


TWIST METHOD



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

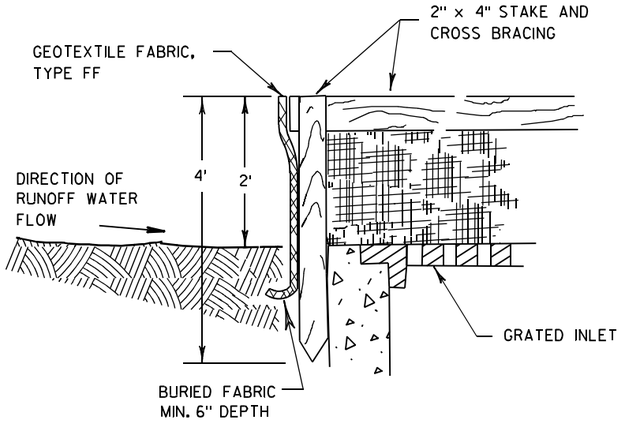
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

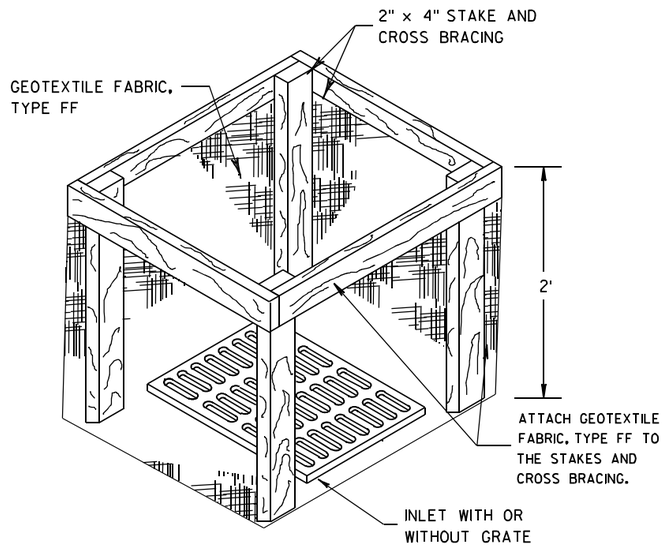
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S.D.D. 8 E 9-6

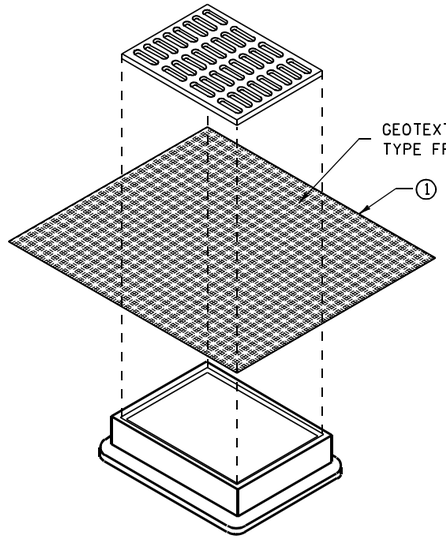
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S.D.D. 8 E 9-6



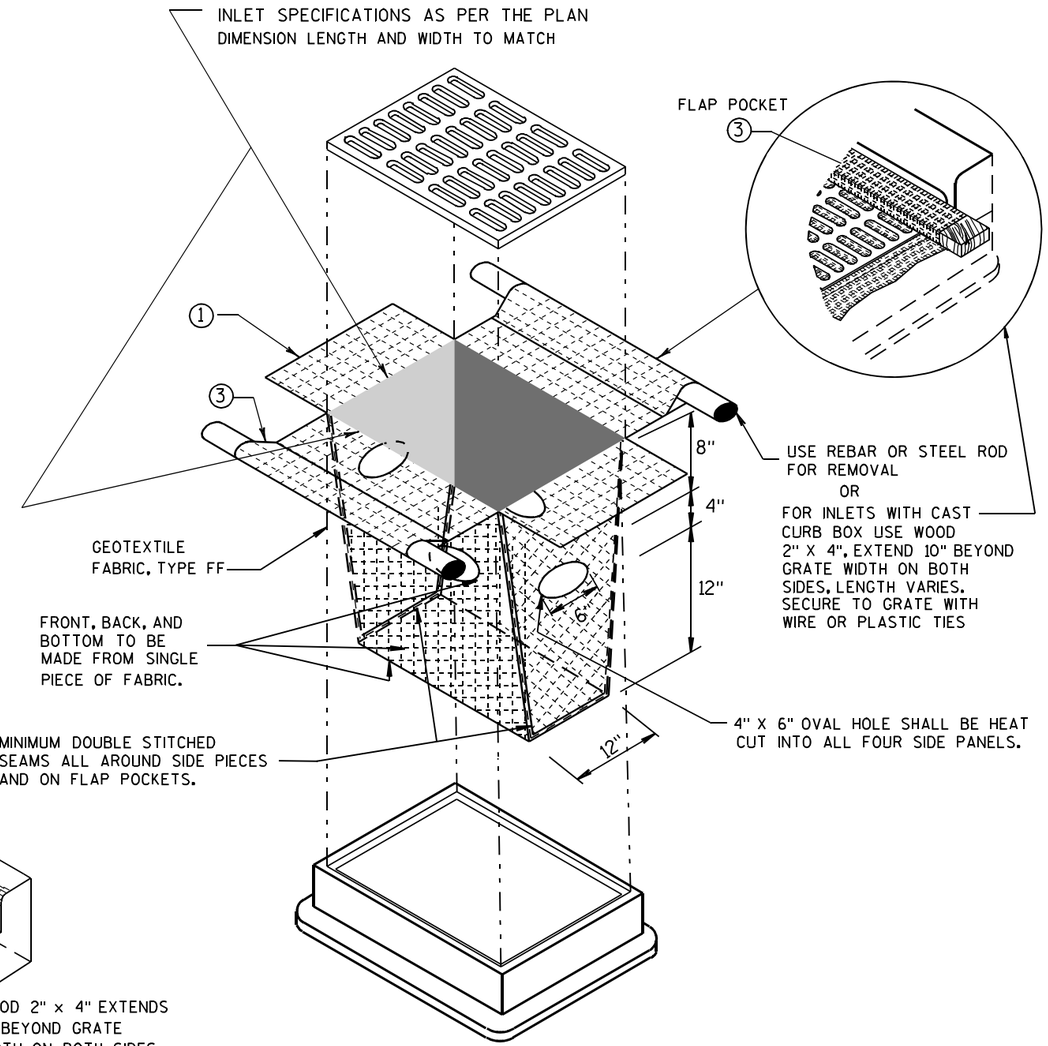


INLET PROTECTION, TYPE A



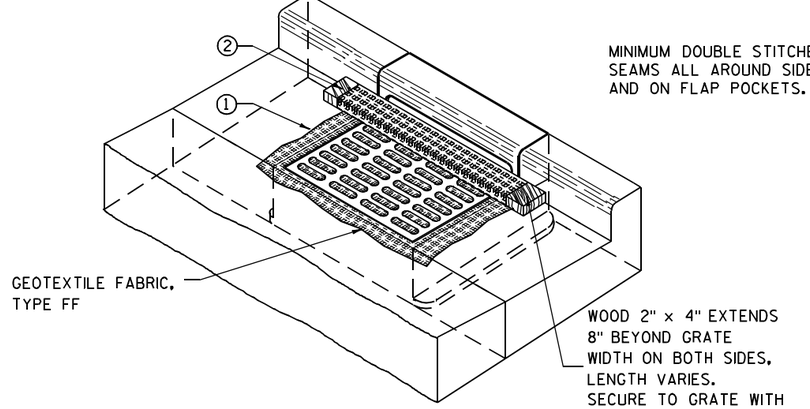
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

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

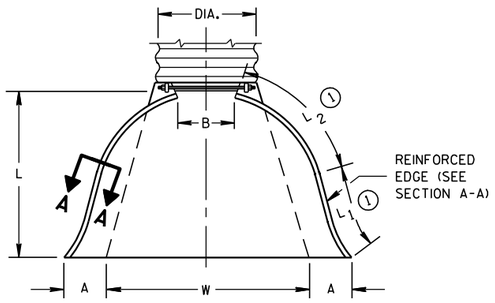
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

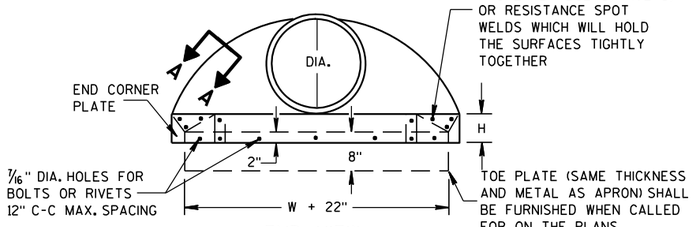
REINFORCED CONCRETE APRON ENDWALLS

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

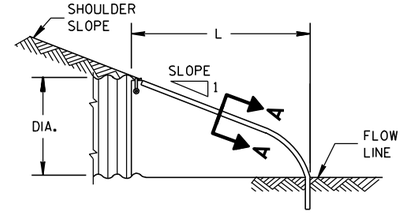
* MINIMUM
** MAXIMUM



PLAN VIEW

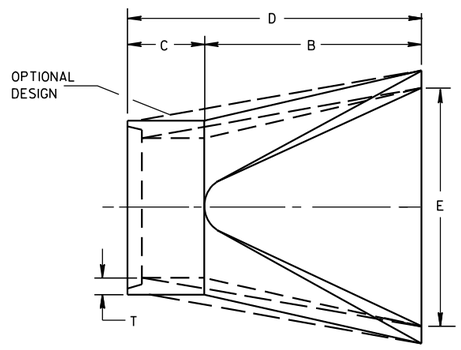


END VIEW

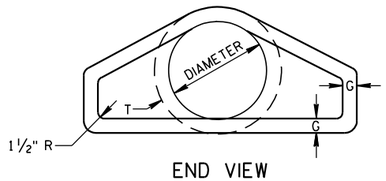


SIDE ELEVATION

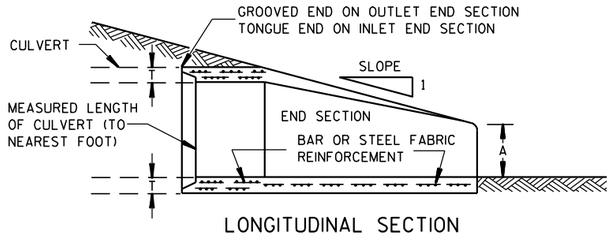
METAL ENDWALLS



PLAN

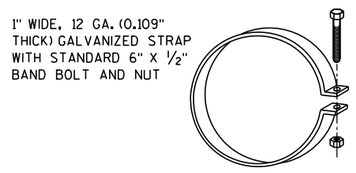


END VIEW



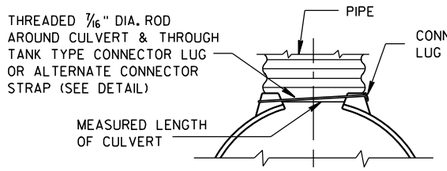
LONGITUDINAL SECTION

CONCRETE ENDWALLS

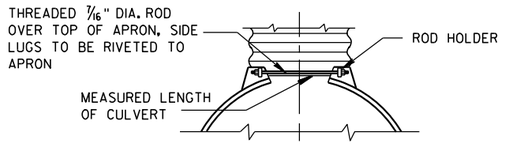


ALTERNATE FOR TYPE 1 CONNECTION

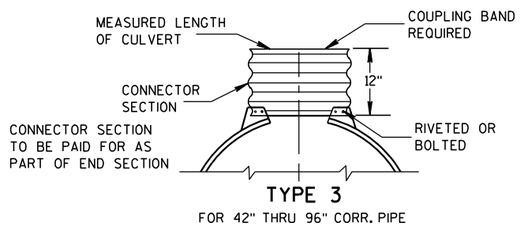
END SECTION CONNECTOR STRAP



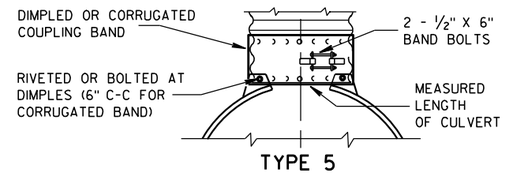
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

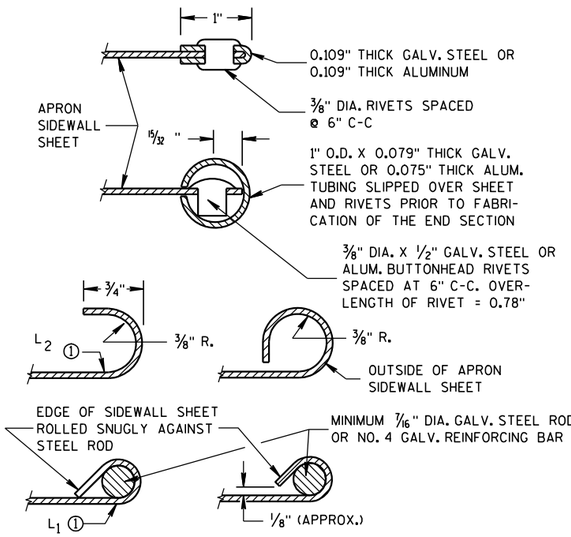
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

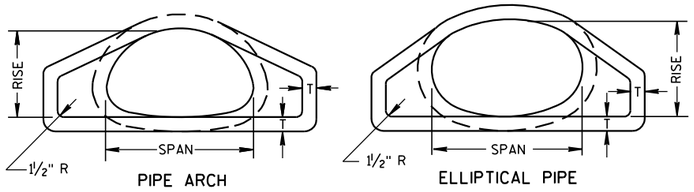
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

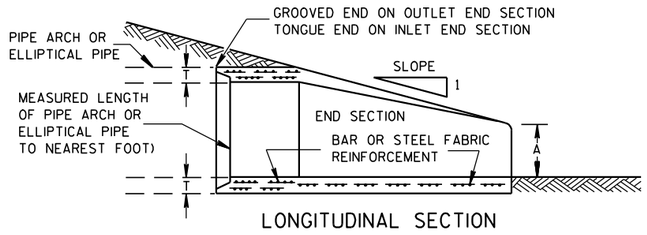
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

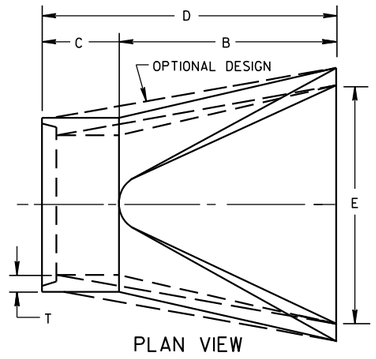
6
S.D.D. 8 F 1-11



END VIEW

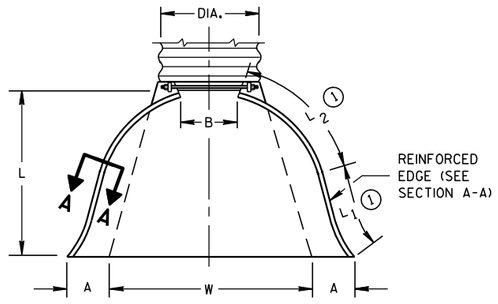


LONGITUDINAL SECTION

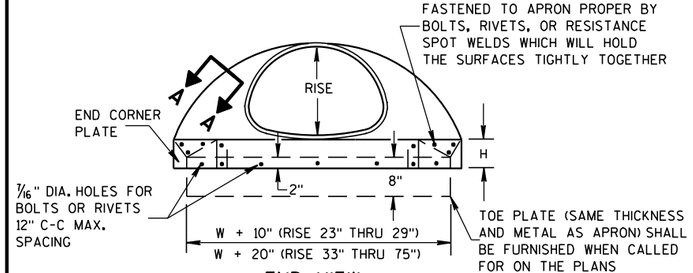


PLAN VIEW

CONCRETE ENDWALLS

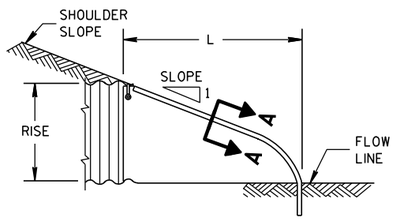


PLAN VIEW



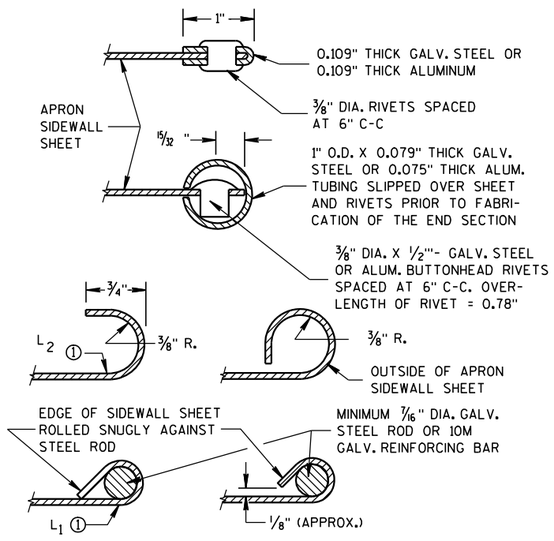
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

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

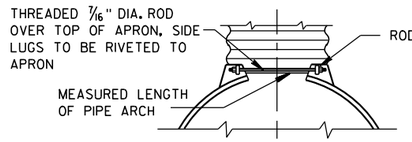
REINFORCED CONCRETE PIPE ARCH

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

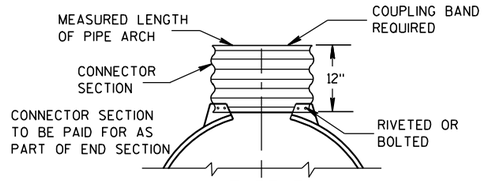
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



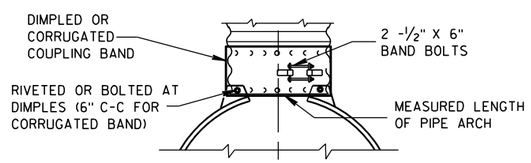
TYPE 2

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

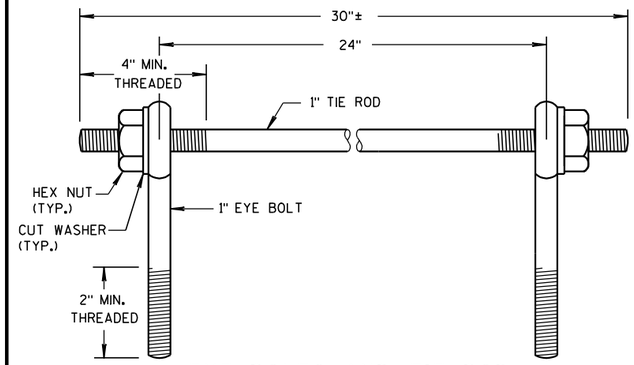
FHWA

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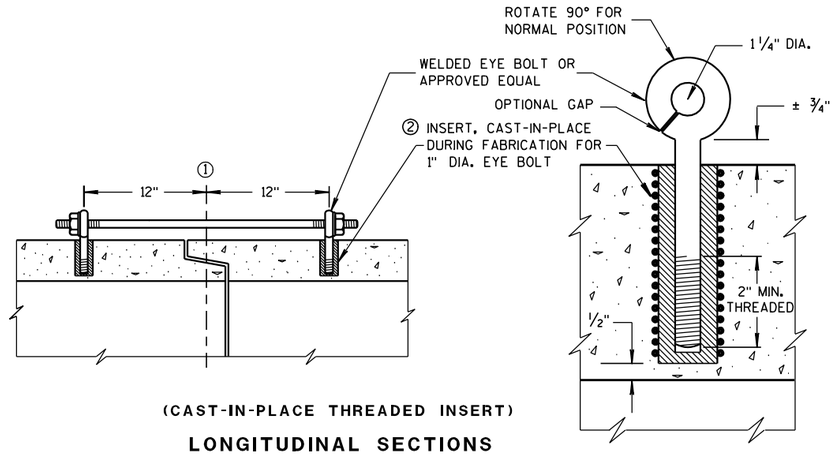
S.D.D. 8 F 2-1

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.

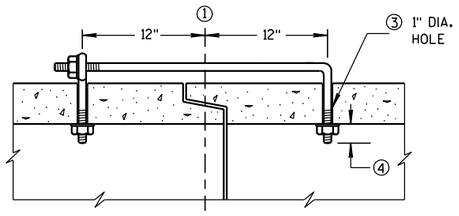
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

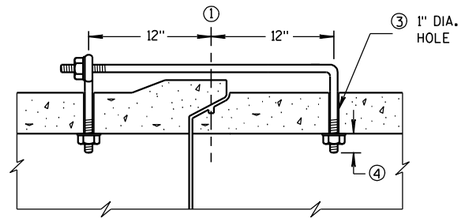
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

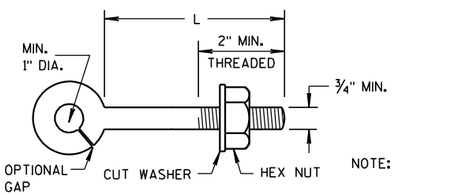


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

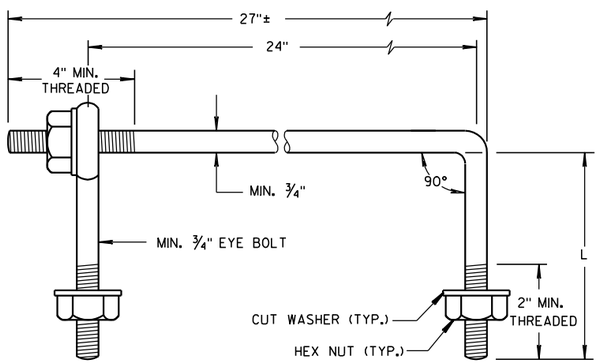
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

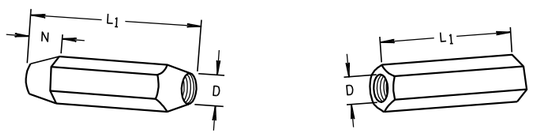
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

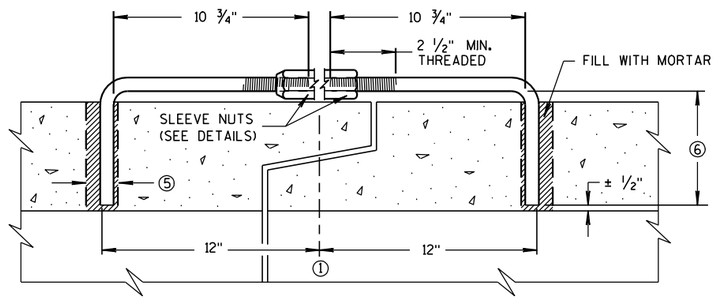
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

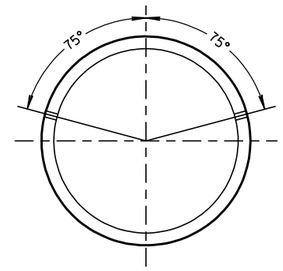
SLEEVE NUTS



LONGITUDINAL SECTION

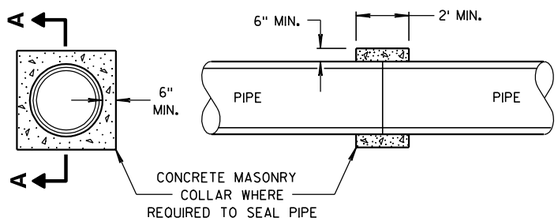
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
130
FHWA

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S.D.D. 8 F 4-7

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S.D.D. 8 F 4-7

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) 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.

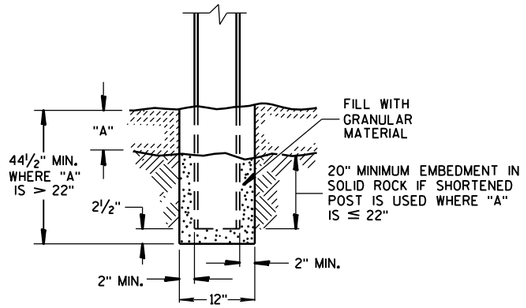
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(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.

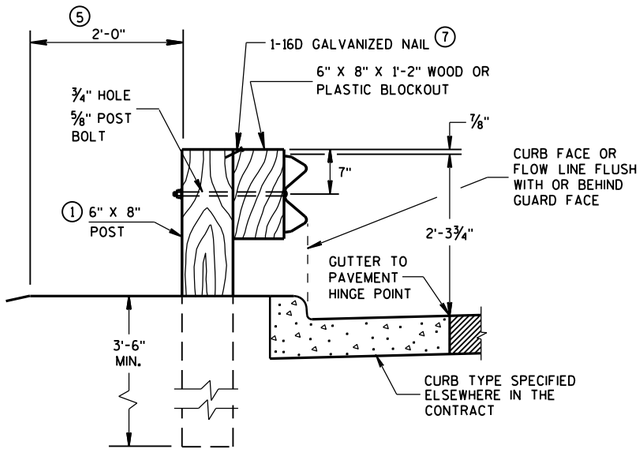
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

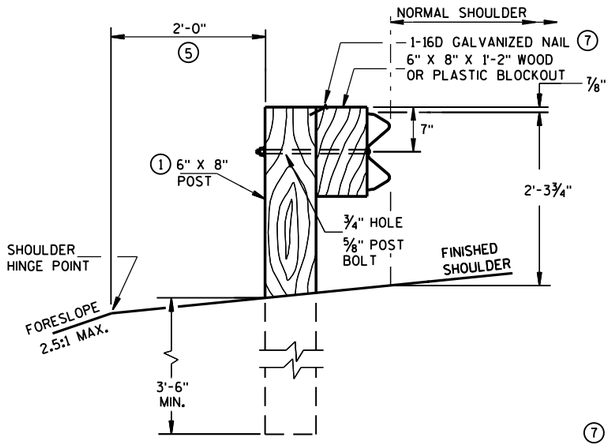
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



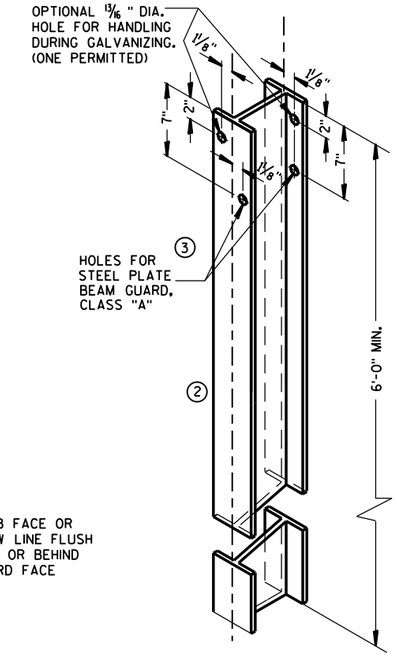
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)



END VIEW
LOCATED ALONG A CURBED ROADWAY

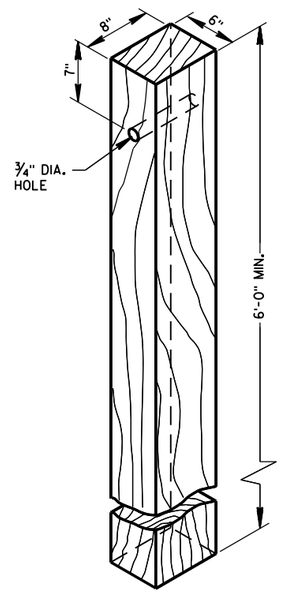


END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION

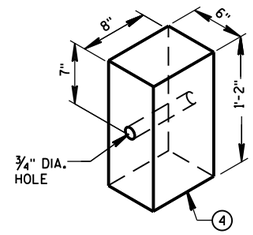


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

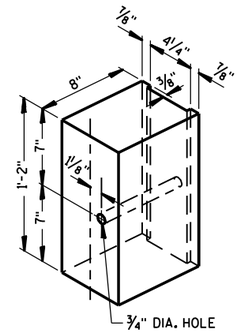
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



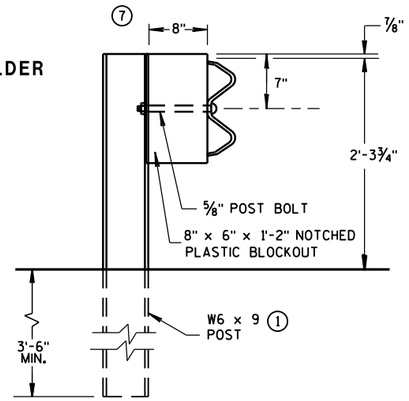
WOOD POST
(6"X8") NOMINAL



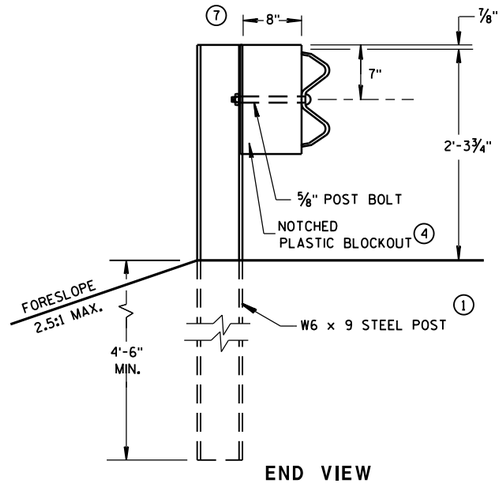
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



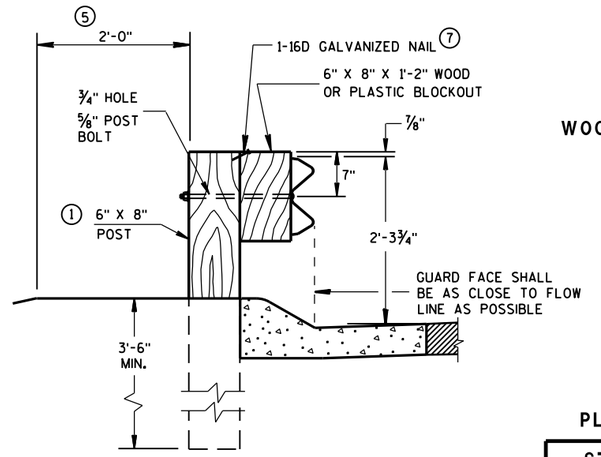
TYPICAL NOTCHED (1)
PLASTIC BLOCKOUT
FOR STEEL POSTS



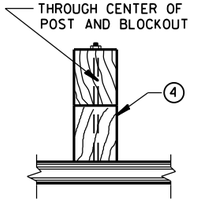
END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



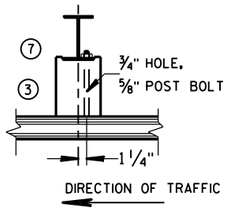
END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)



END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



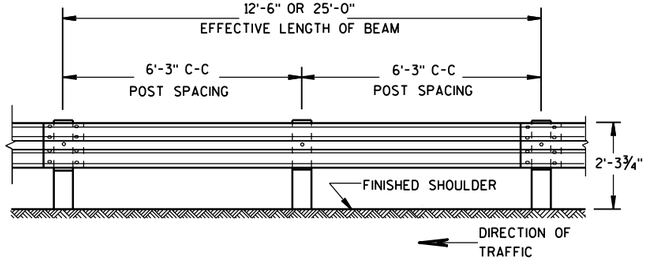
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

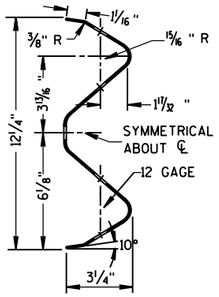
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 15-8a

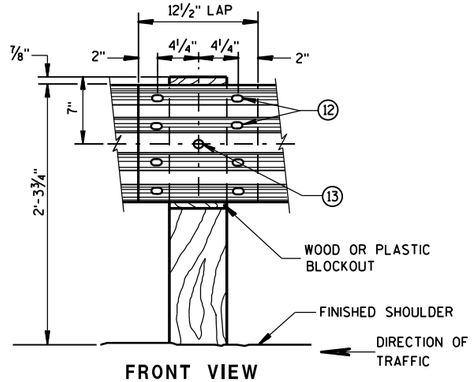


FRONT VIEW

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.

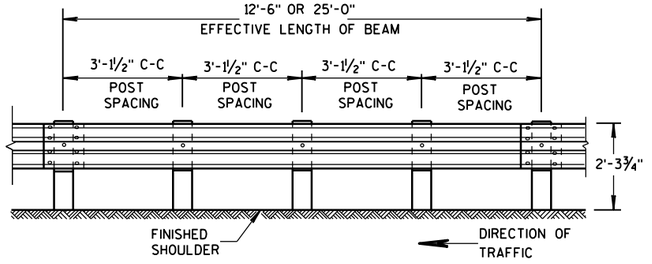
(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(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.

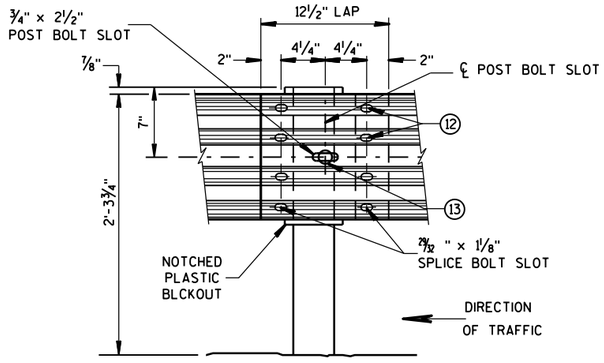
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

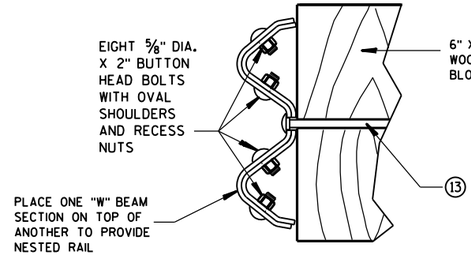
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

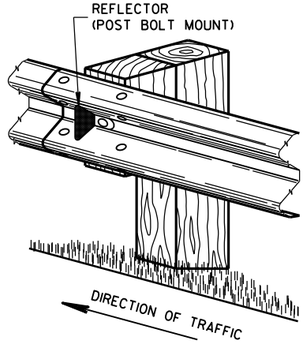


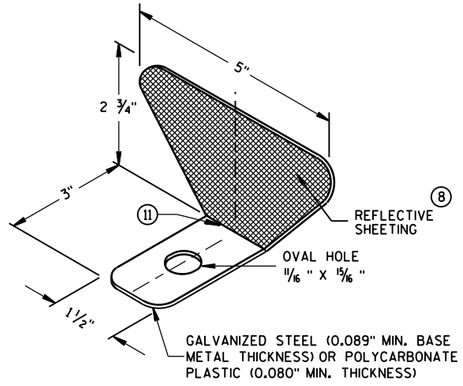
NESTED W BEAM (NW)

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'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (10)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2 (11)	3
	> 200'	100' C-C	2	



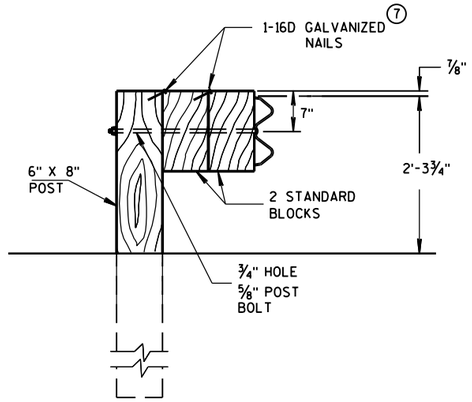


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (8)

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

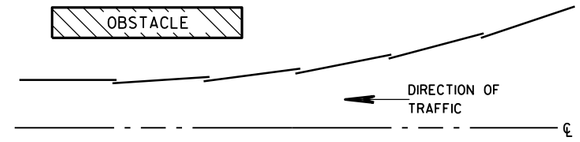
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 15-8b

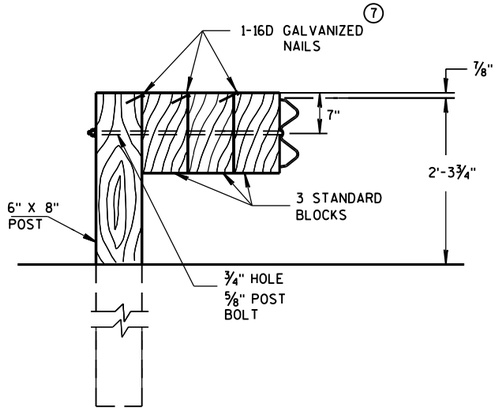


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

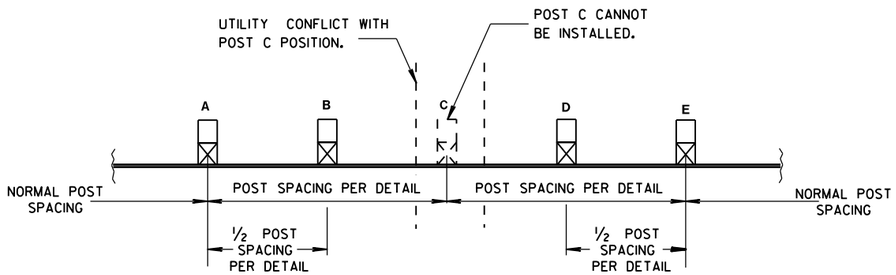


PLAN VIEW
BEAM LAPPING DETAIL



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

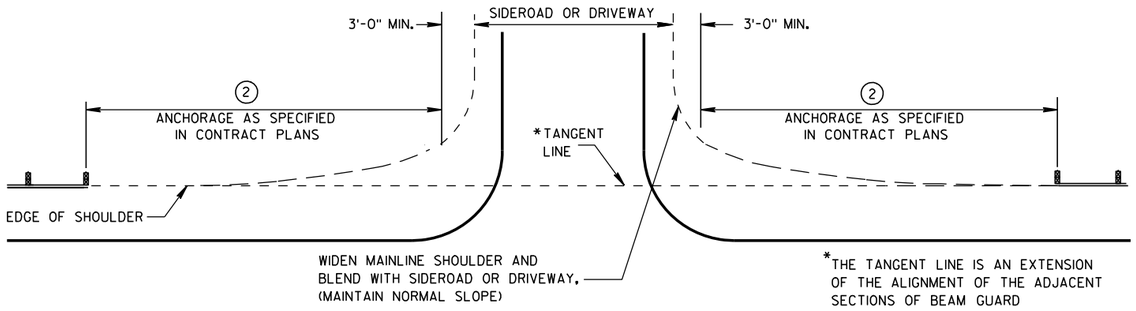
APPROVED

June 2014	/S/ Jerry H. Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT ENGINEER

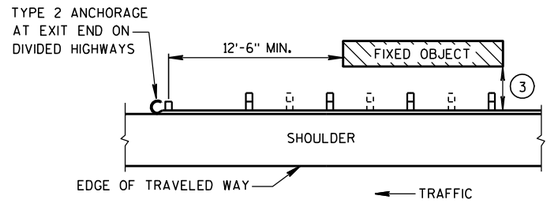
FHWA

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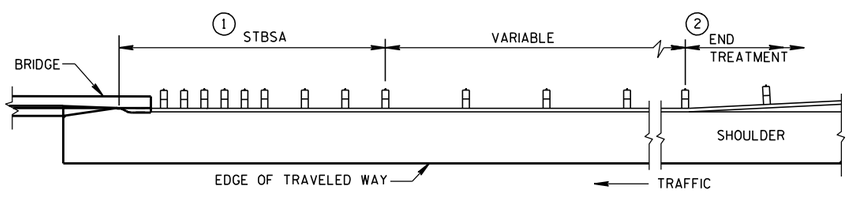
S.D.D. 14 B 15-8c



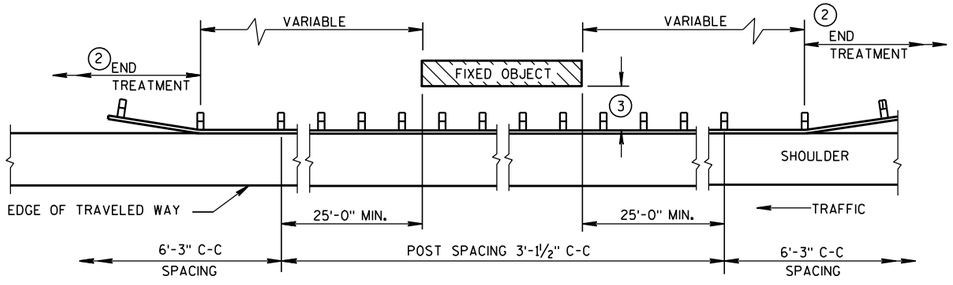
BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

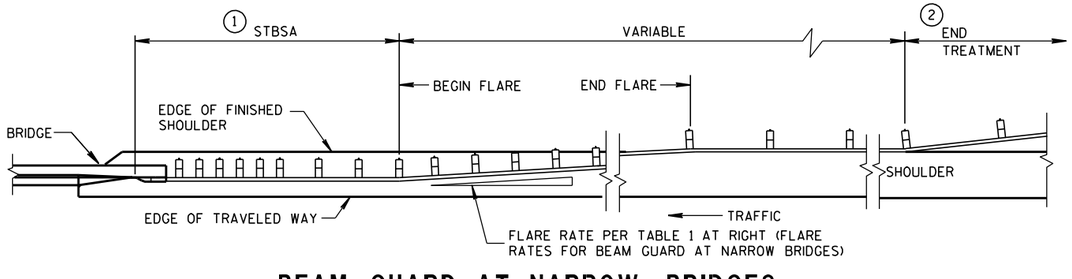


BEAM GUARD AT FULL WIDTH BRIDGES



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

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"

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

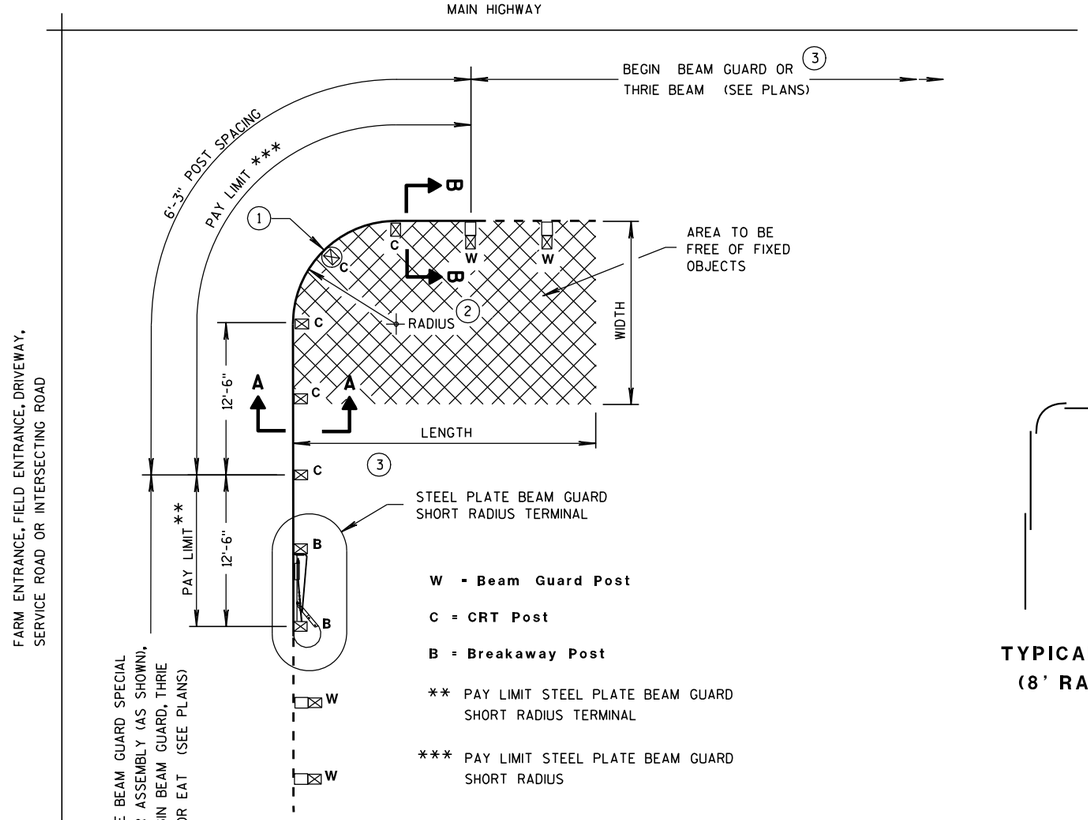
8-21-07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

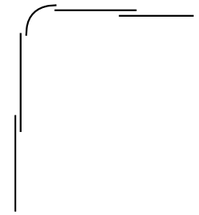
FHWA

6

S.D.D. 14 B 18-6a



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.

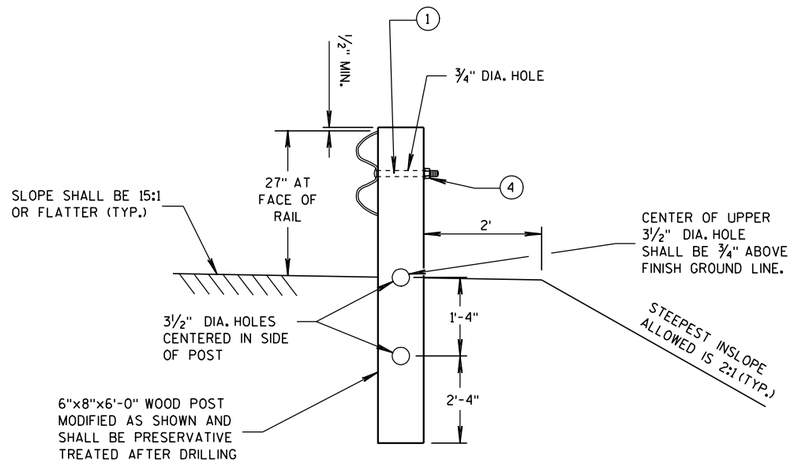
(2) RADIUS FROM 8' - 36'. SEE PLAN.

(3) HEIGHT TRANSITION MAY BE REQUIRED. SEE PLAN OR PROJECT ENGINEER.

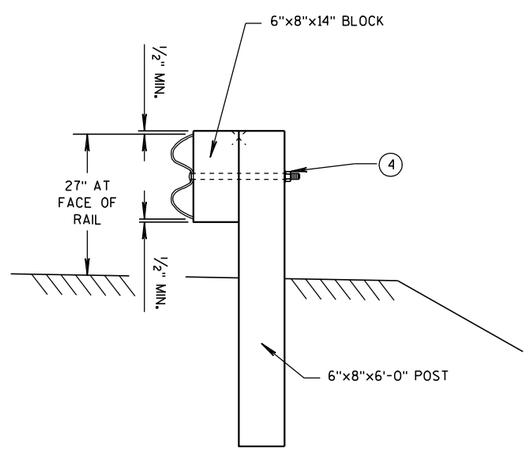
(4) 5/8" ø X 1'-6" BUTTON HEAD BOLT AND RECESS NUT WITH ROUND WASHER UNDER NUT.

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

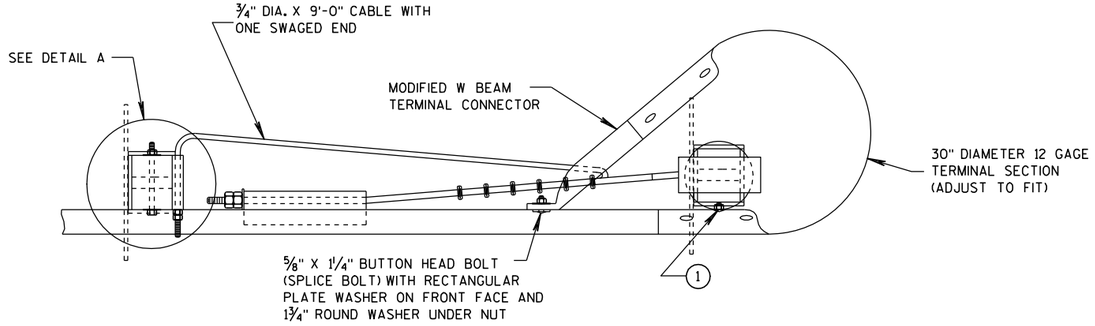
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

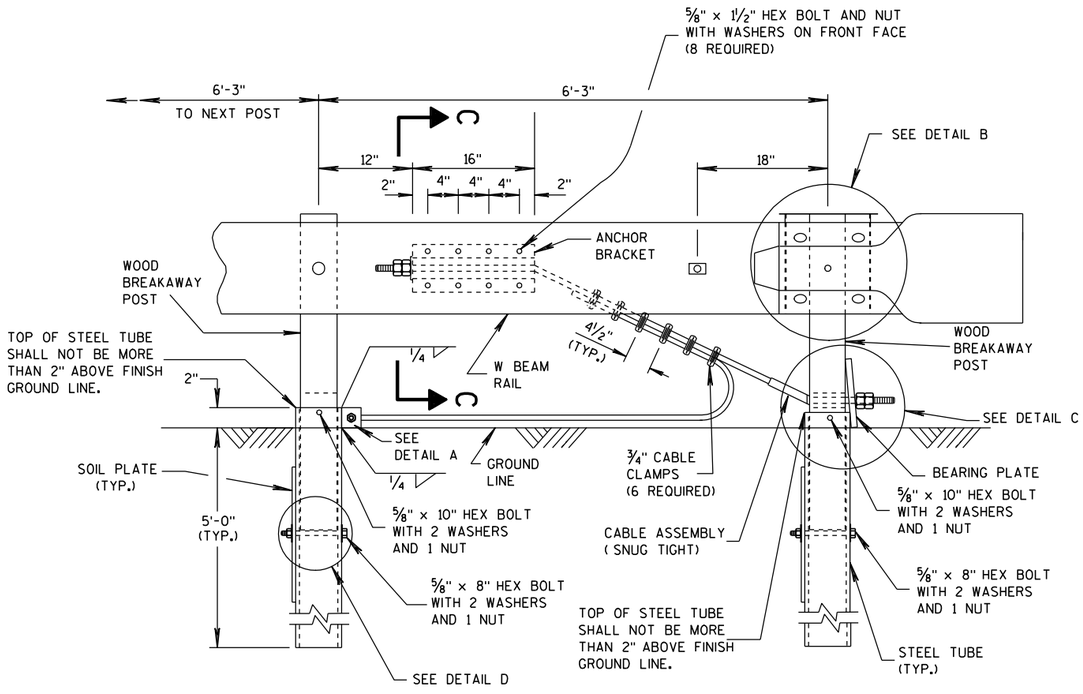
S.D.D. 14 B 27-1a

6

S.D.D. 14 B 27-1a



PLAN VIEW



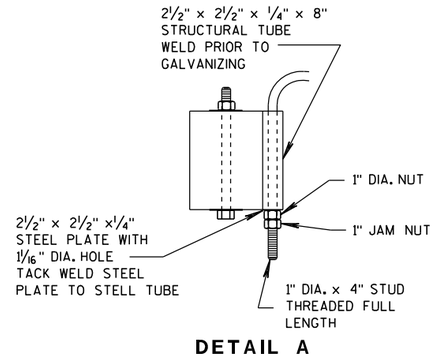
ELEVATION VIEW

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

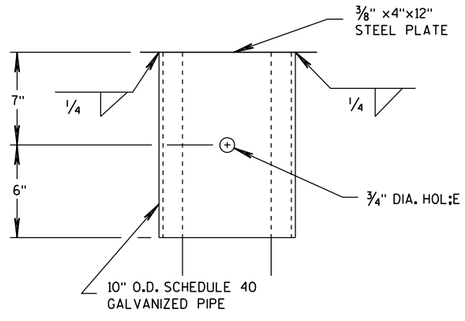
GENERAL NOTES

(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

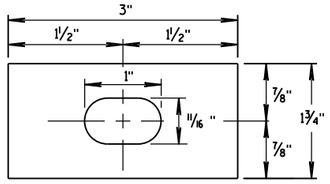
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

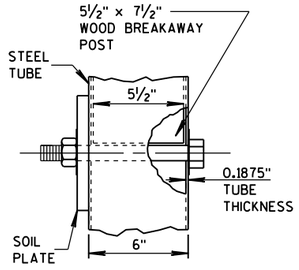
S.D.D. 14 B 27-1b

6

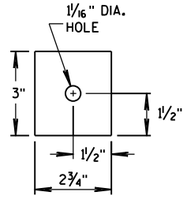
S.D.D. 14 B 27-1b



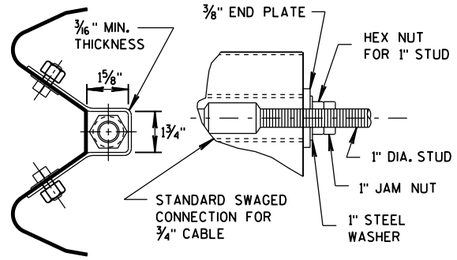
RECTANGULAR PLATE WASHER



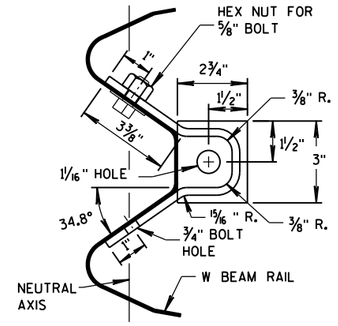
DETAIL D



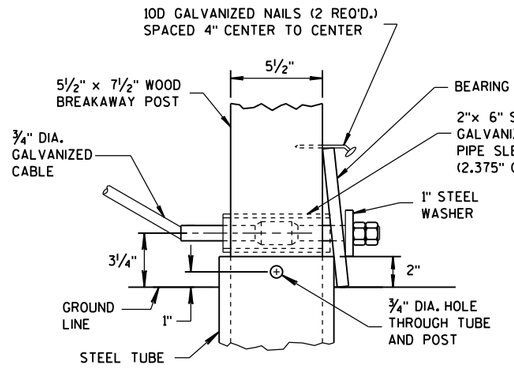
END PLATE



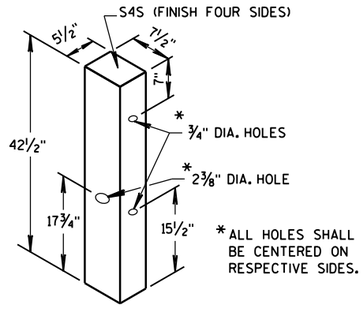
SECTION C-C
(END PLATE REMOVED)



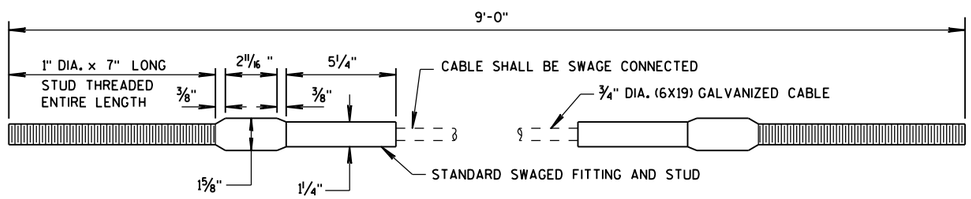
ANCHOR BRACKET



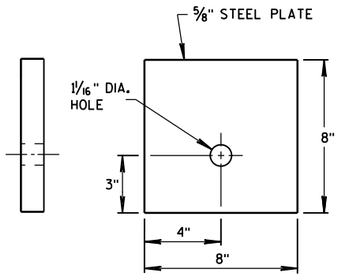
DETAIL C



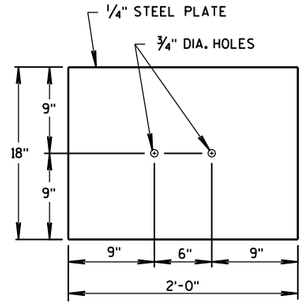
WOOD BREAKAWAY POST



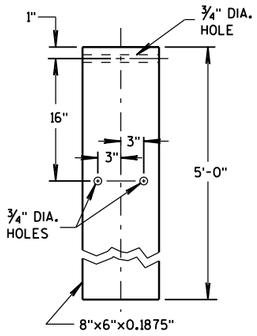
CABLE ASSEMBLY



BEARING PLATE



SOIL PLATE



STEEL TUBE

STEEL PLATE BEAM GUARD
SHORT RADIUS TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

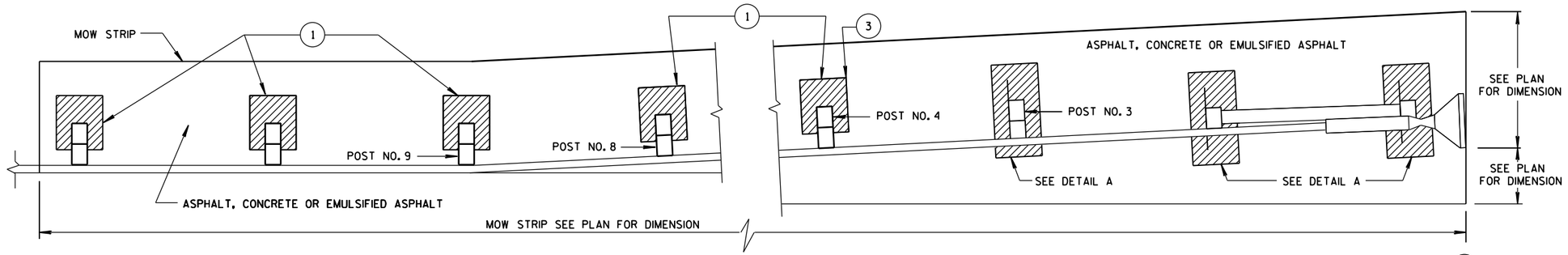
APPROVED
12/18/08 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 27-1c

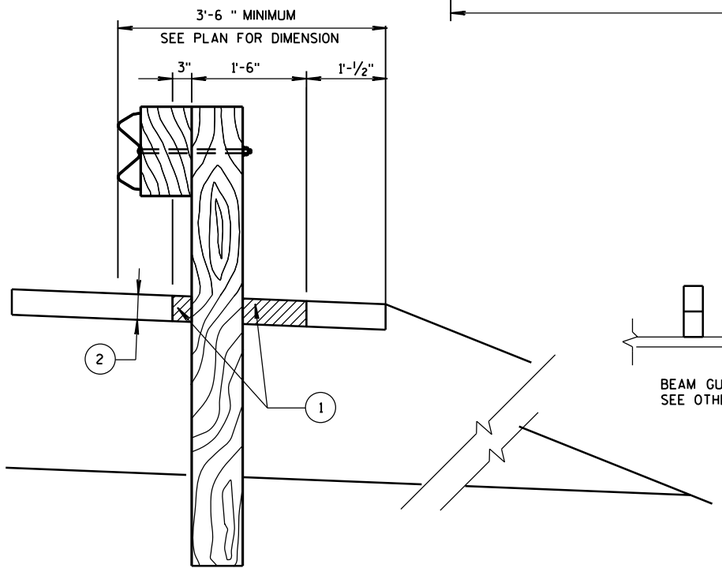
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S.D.D. 14 B 27-1c

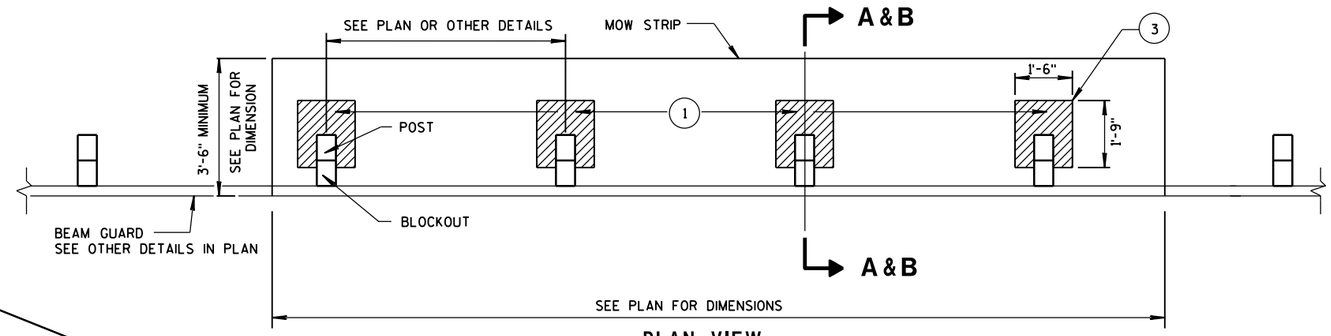


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

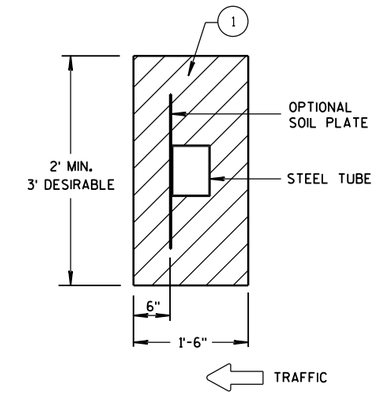


SECTION A-A

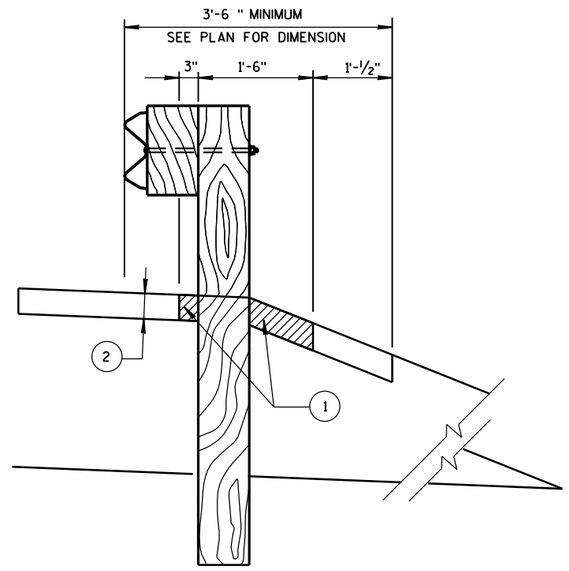


PLAN VIEW

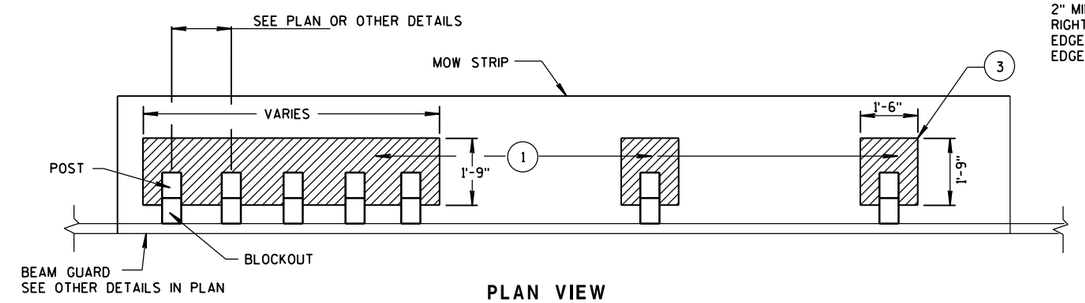
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

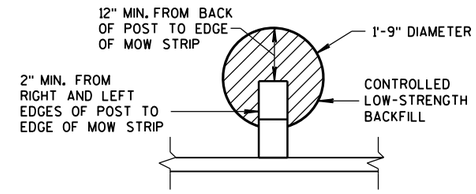


SECTION B-B

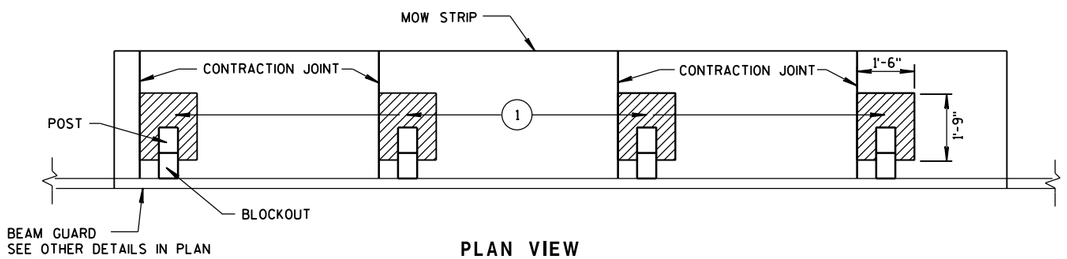


PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



ALTERNATIVE HMA
MOW STRIP DESIGN



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

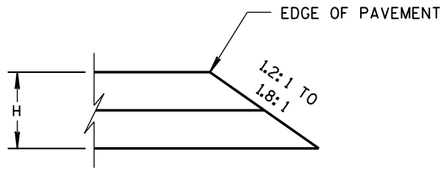
APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA
NT

6

S.D.D. 14 B 28-3

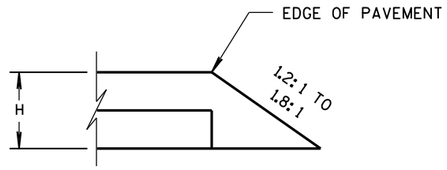
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S.D.D. 14 B 28-3



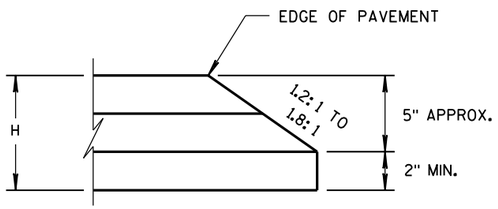
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



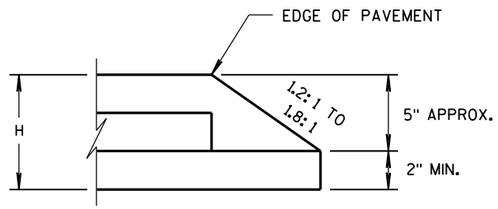
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

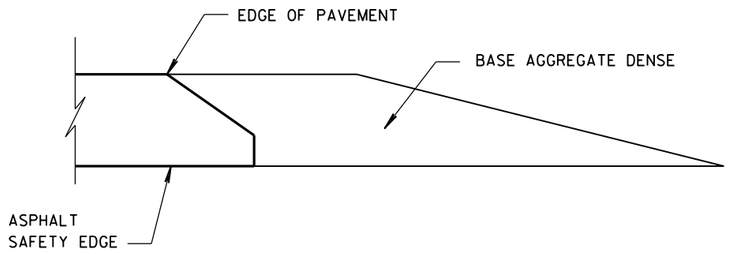
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

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.

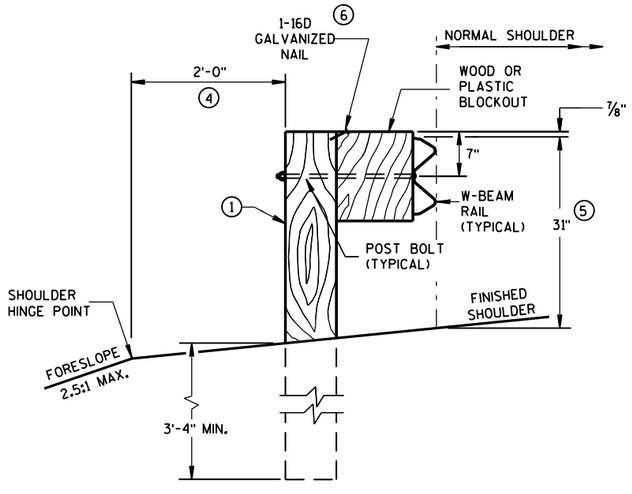
2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

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).

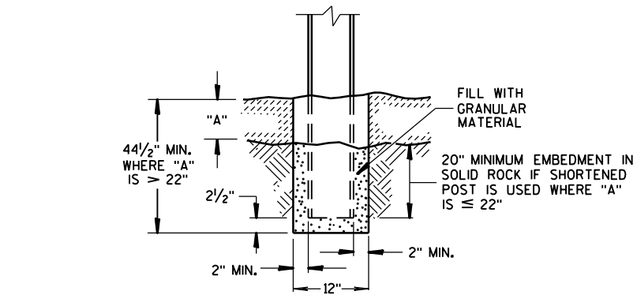
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

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.



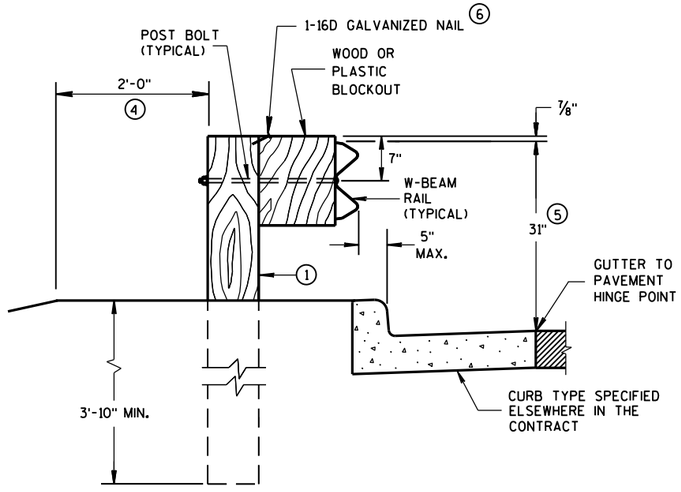
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



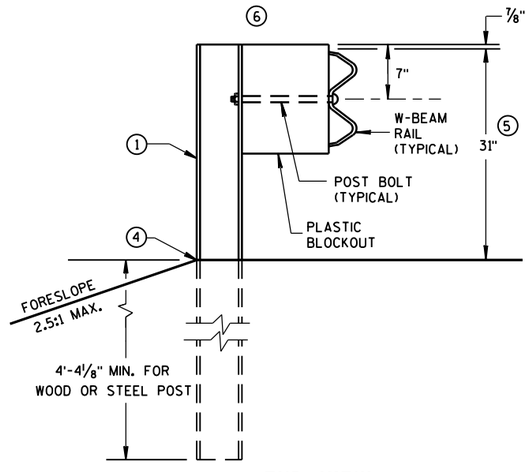
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



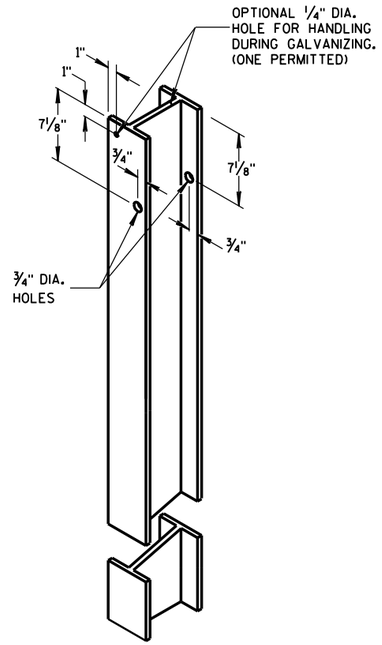
END VIEW

LOCATED ALONG A CURBED ROADWAY

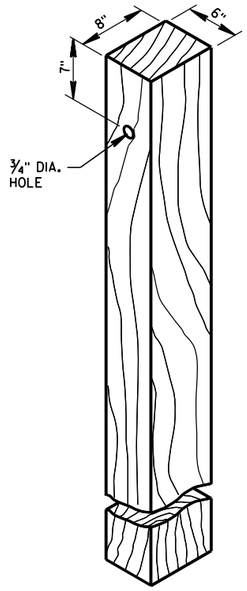


END VIEW

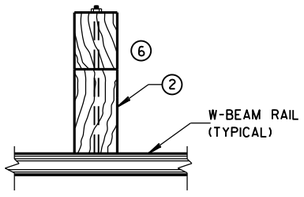
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



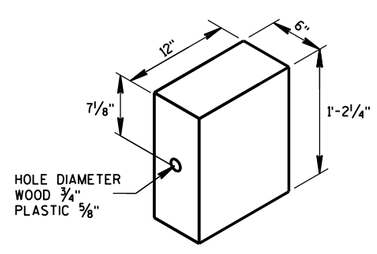
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



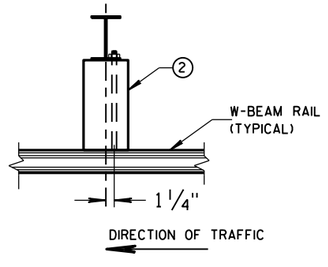
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

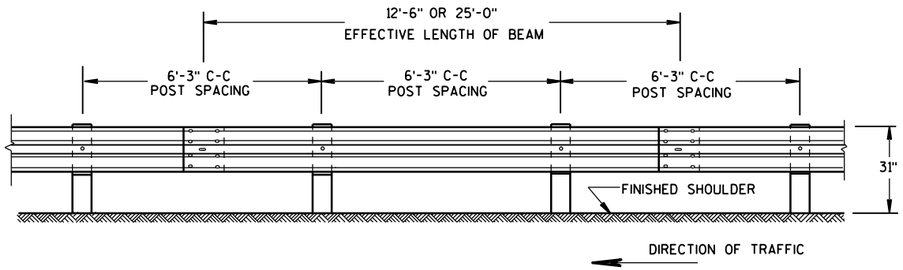


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

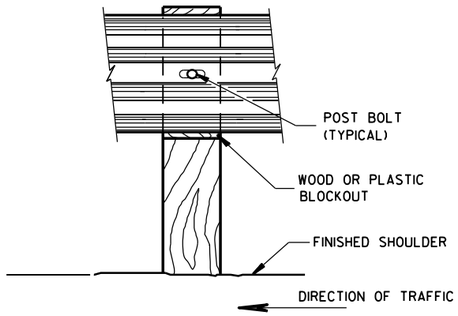
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 42-3a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

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.

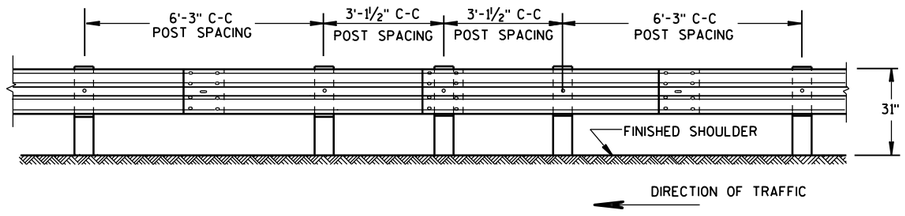
(9) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

(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.

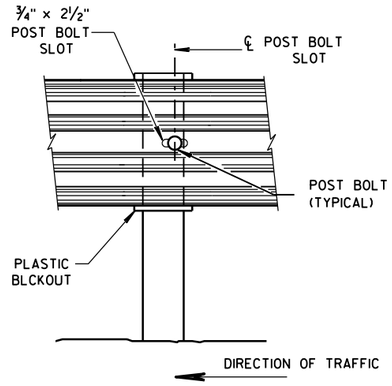
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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

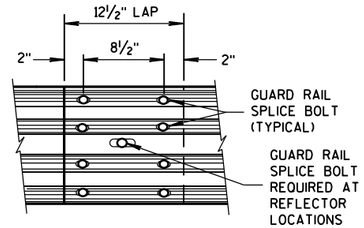


FRONT VIEW

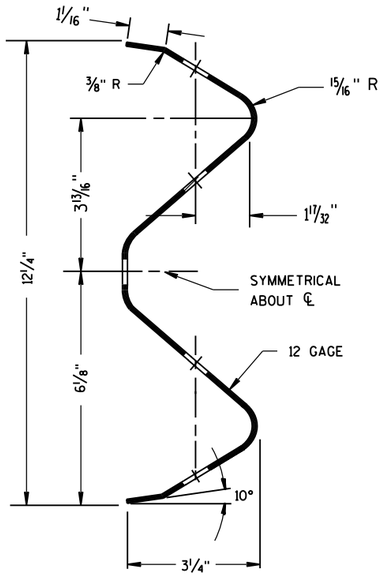
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



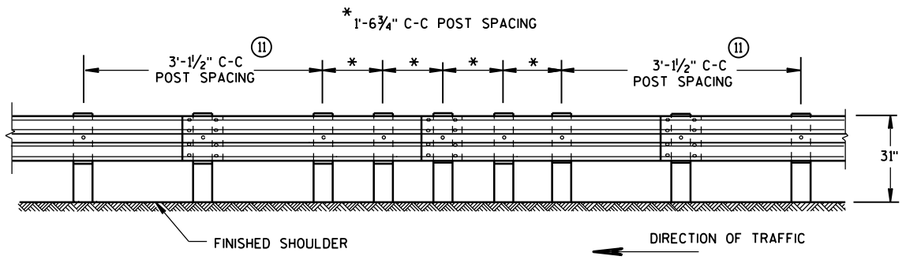
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

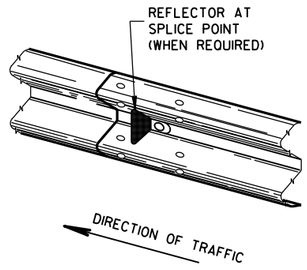


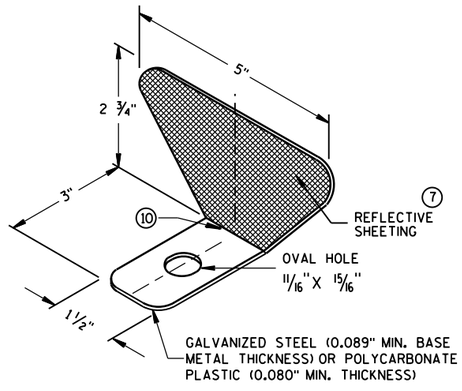
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





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)	

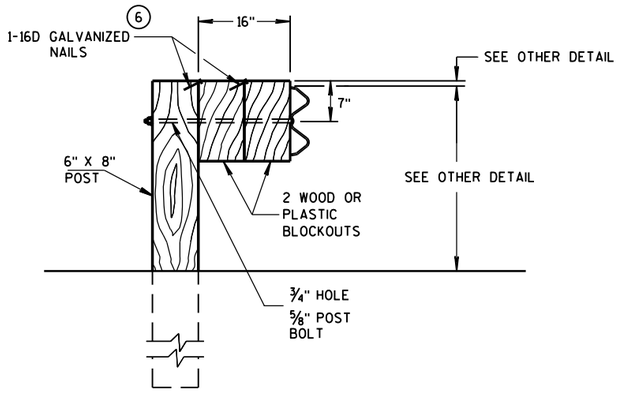
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (7)

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

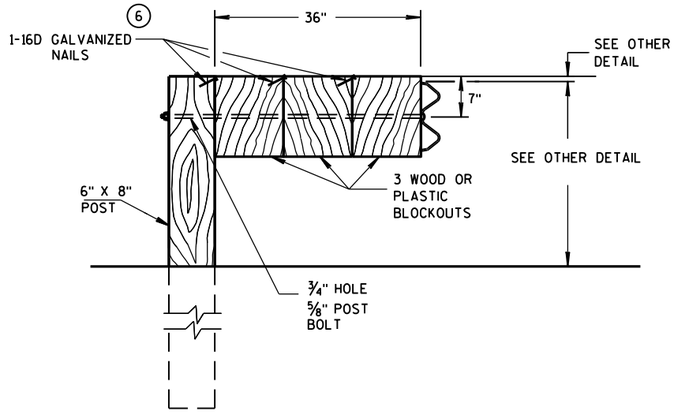
6

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.

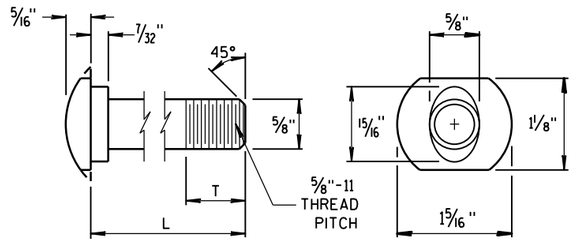


DETAIL FOR 36" BLOCKOUT DEPTH

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.

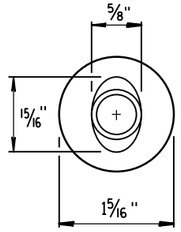
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

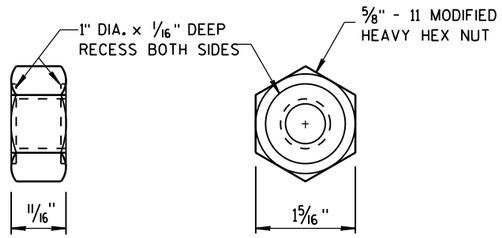


POST BOLT TABLE

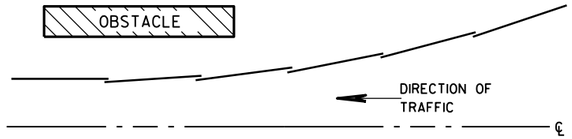
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

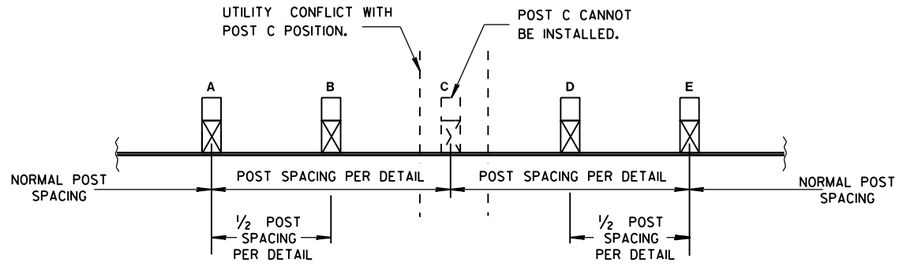


POST BOLT AND RECESS NUT

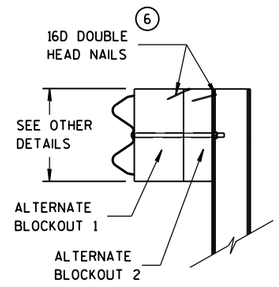


PLAN VIEW

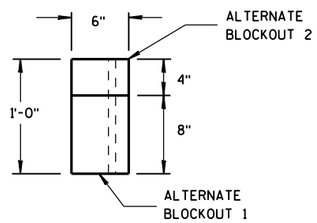
BEAM LAPPING DETAIL



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

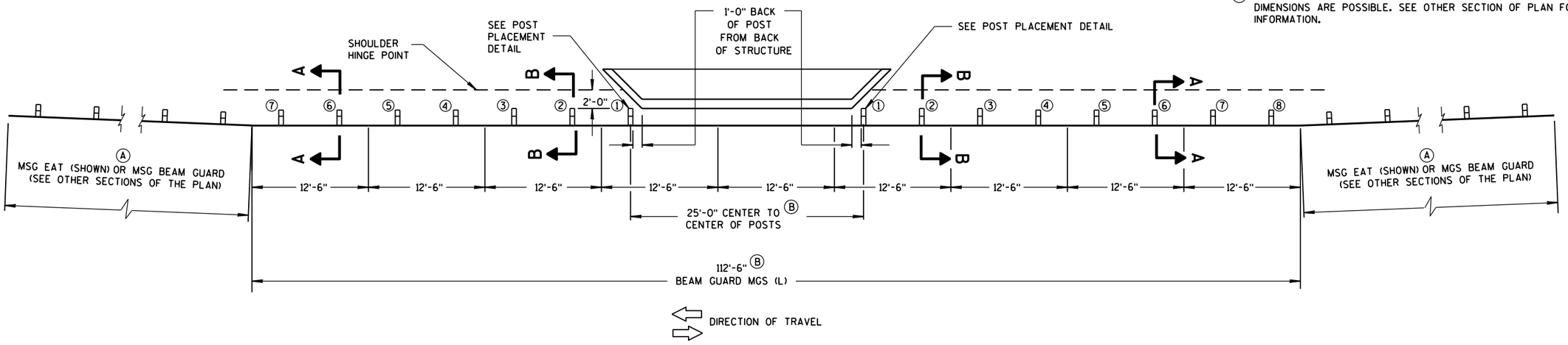
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

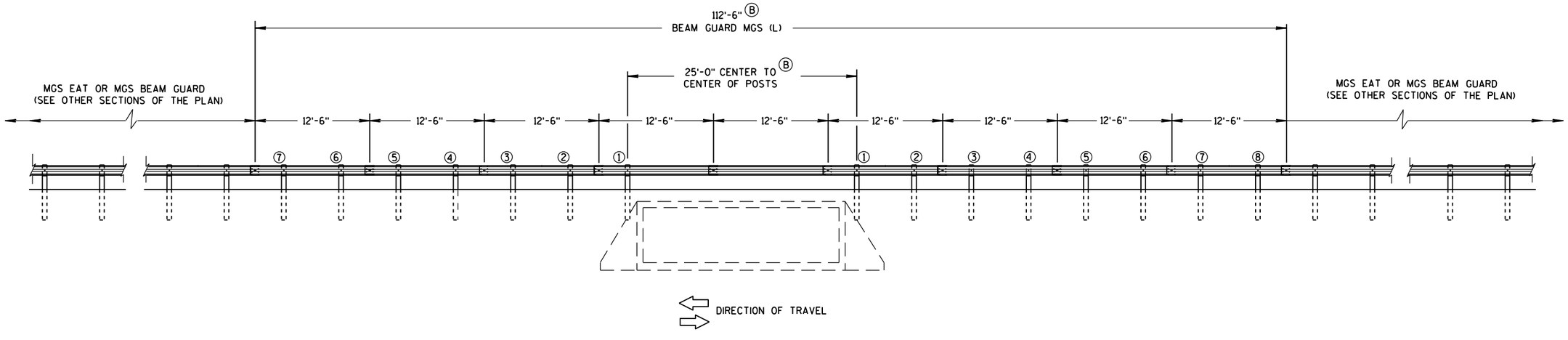
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
STATE OF WISCONSIN DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 43-3a

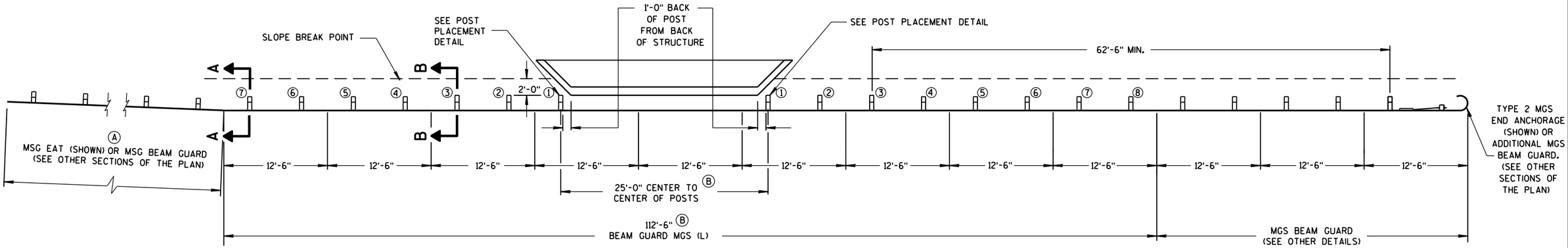
GENERAL NOTES

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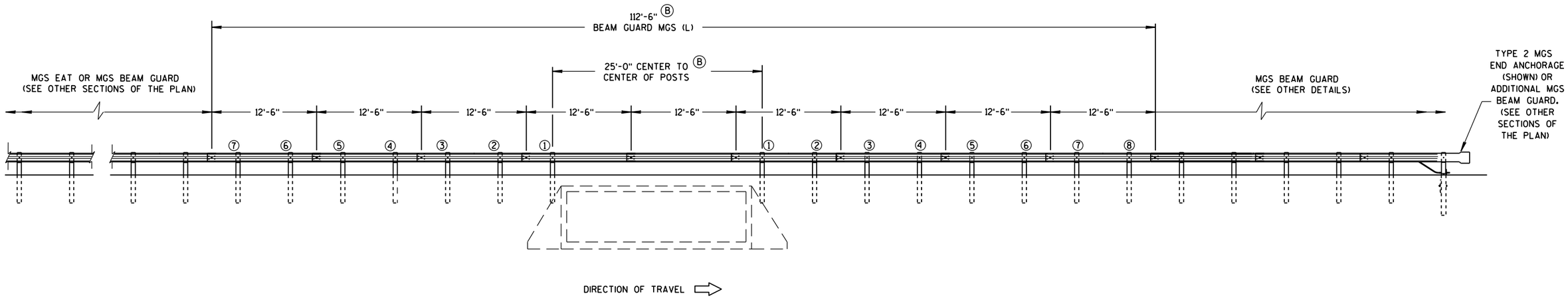
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

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PLAN VIEW



ELEVATION VIEW

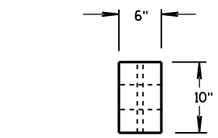
MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

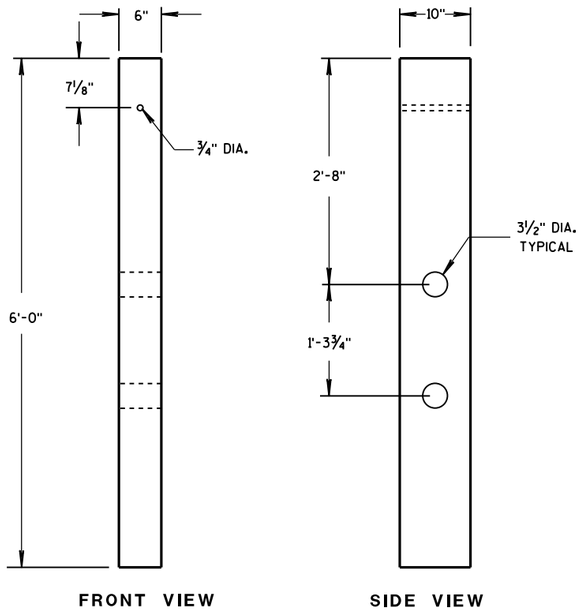
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 43-3b

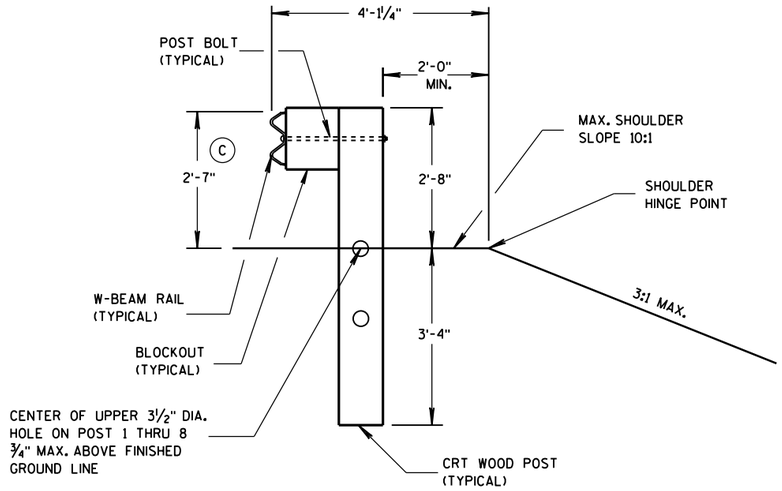


PLAN VIEW



FRONT VIEW SIDE VIEW

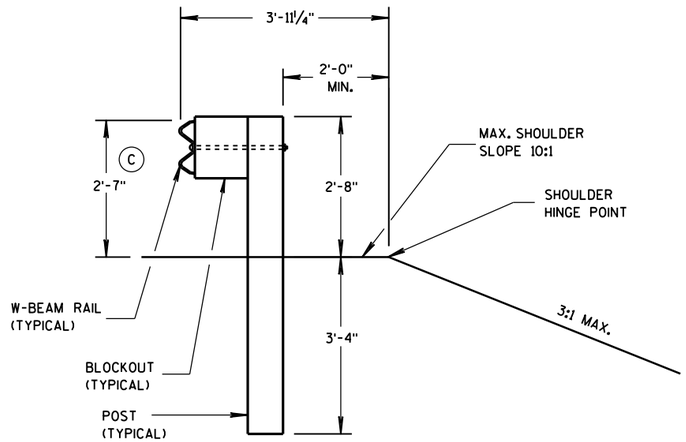
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



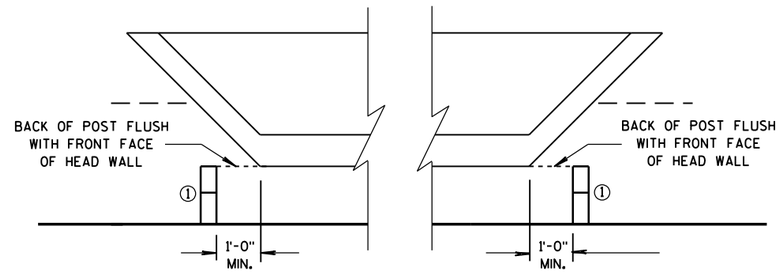
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

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



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/10/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

6

S.D.D. 14 B 43-3c

6

S.D.D. 14 B 43-3c

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.

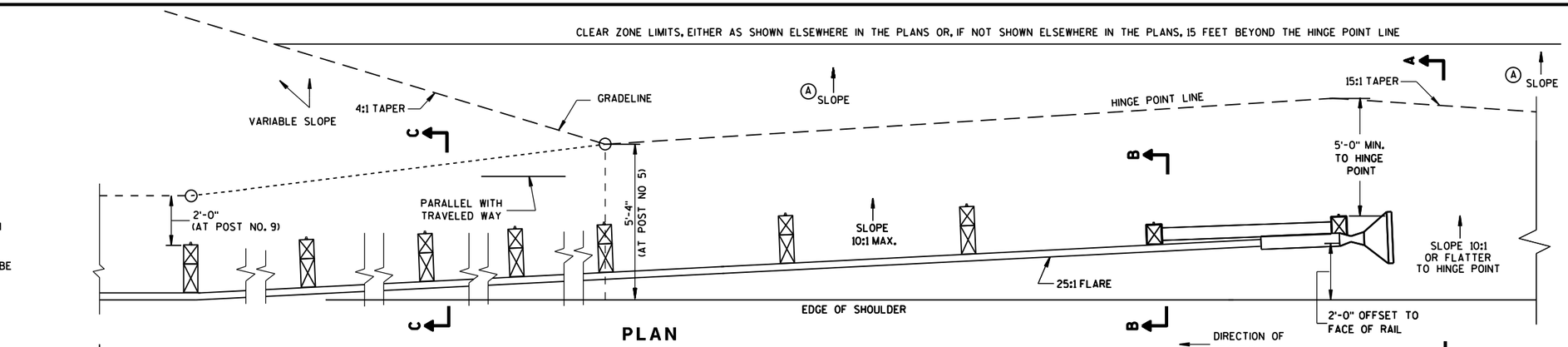
SEE SDD 14B42 FOR MORE INFORMATION.

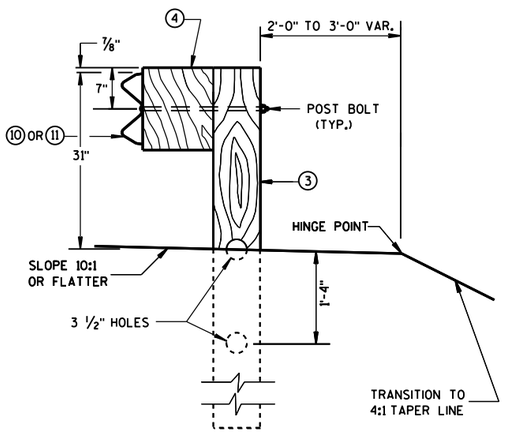
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

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

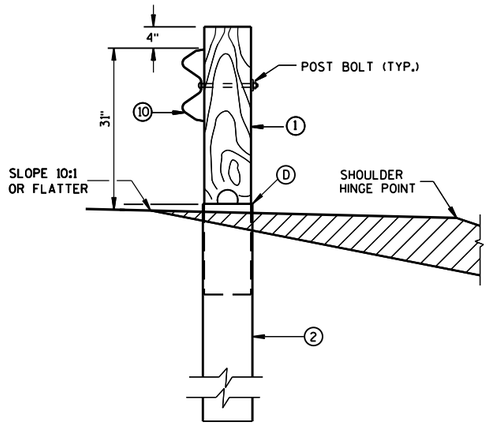
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

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.

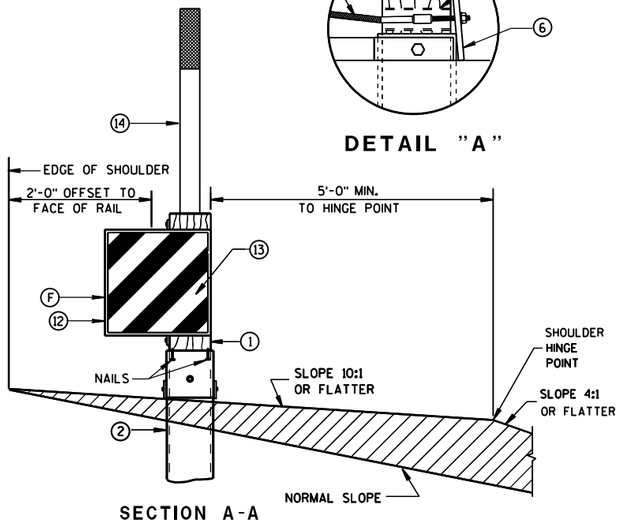




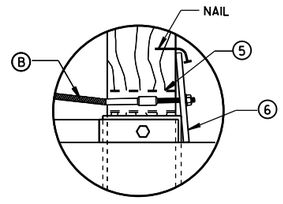
SECTION C-C
TYPICAL AT POST NOS. 3-9



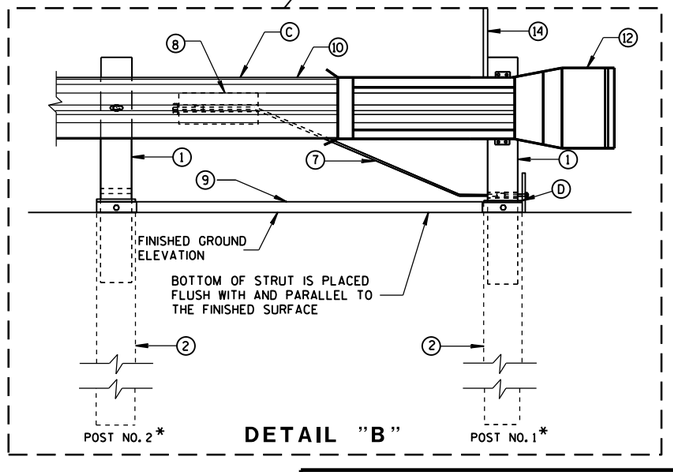
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"

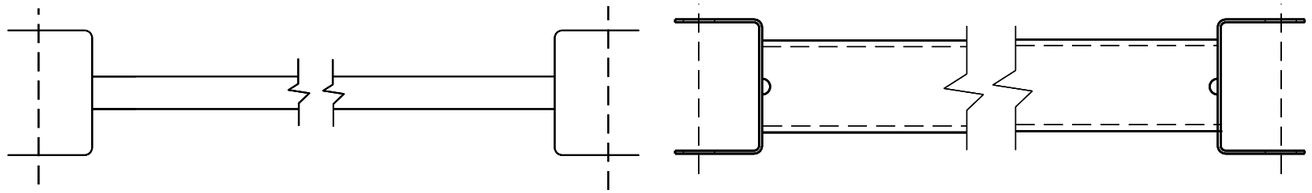


DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

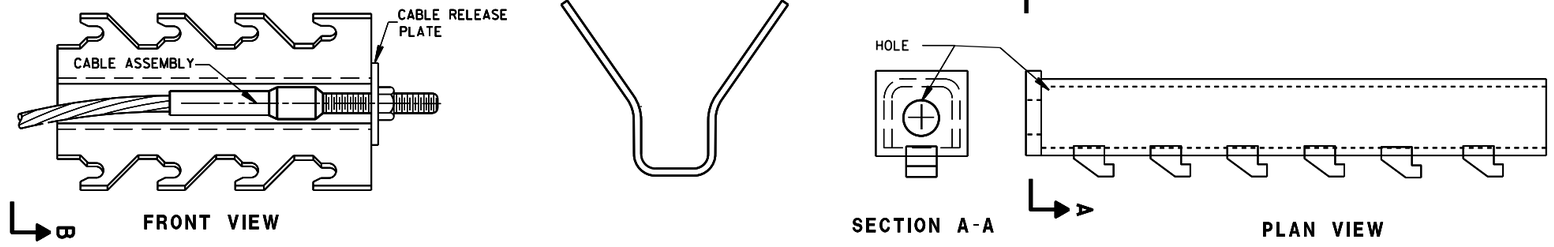
S.D.D. 14 B 44-2a



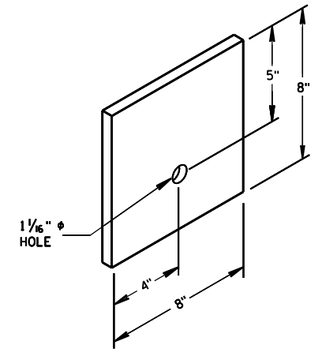
GENERIC GROUND STRUT (9) (H)

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)



GENERIC ANCHOR CABLE BOX (8) (H)

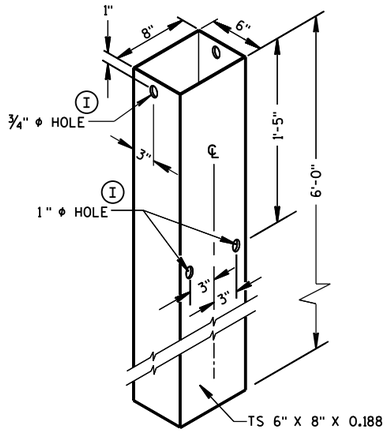


BEARING PLATE (6)

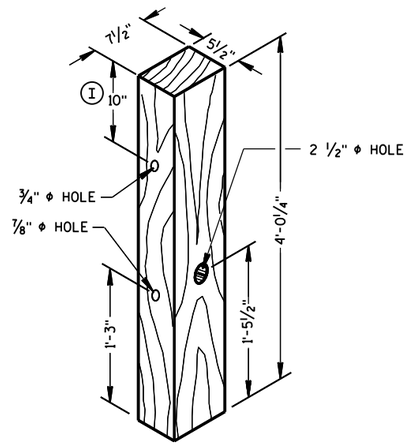
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 44-2b

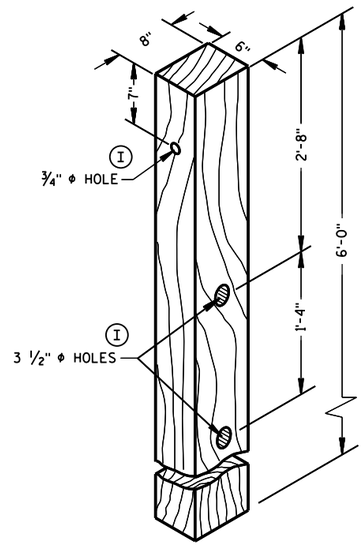


FOUNDATION TUBE (2)



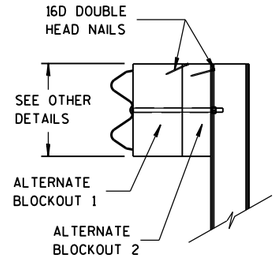
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

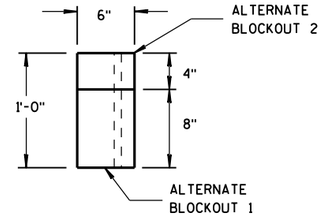


POSTS NUMBER 3-9

WOOD CRT POST (3)

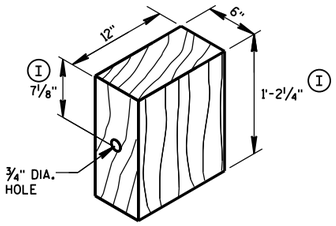


SIDE VIEW



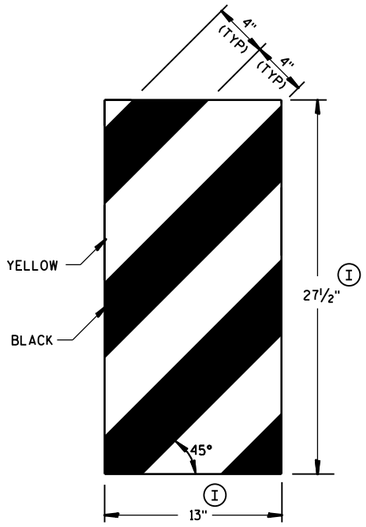
TOP VIEW

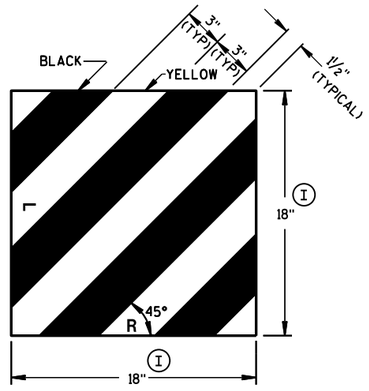
ALTERNATE WOOD BLOCKOUT DETAIL



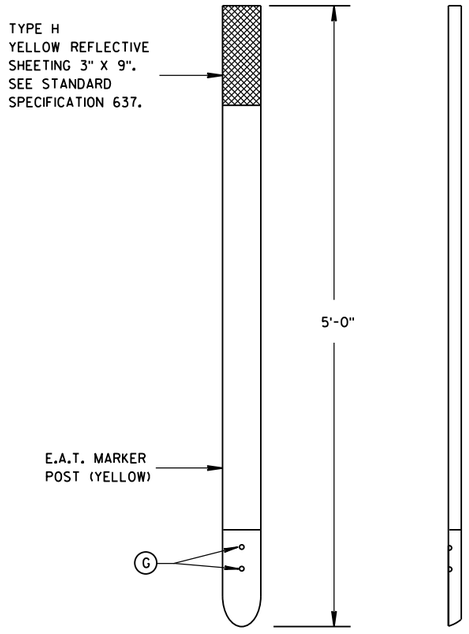
WOOD BLOCKOUT (4)

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





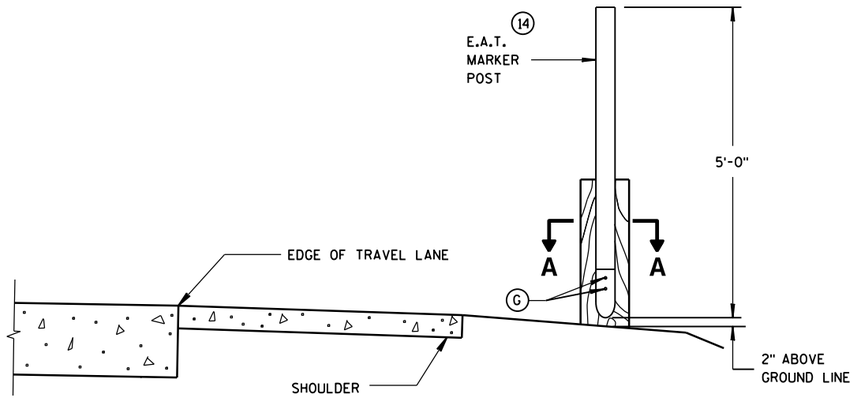
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

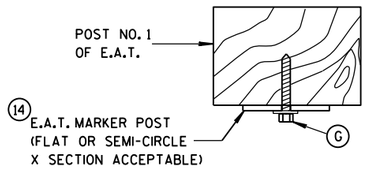
SIDE VIEW

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

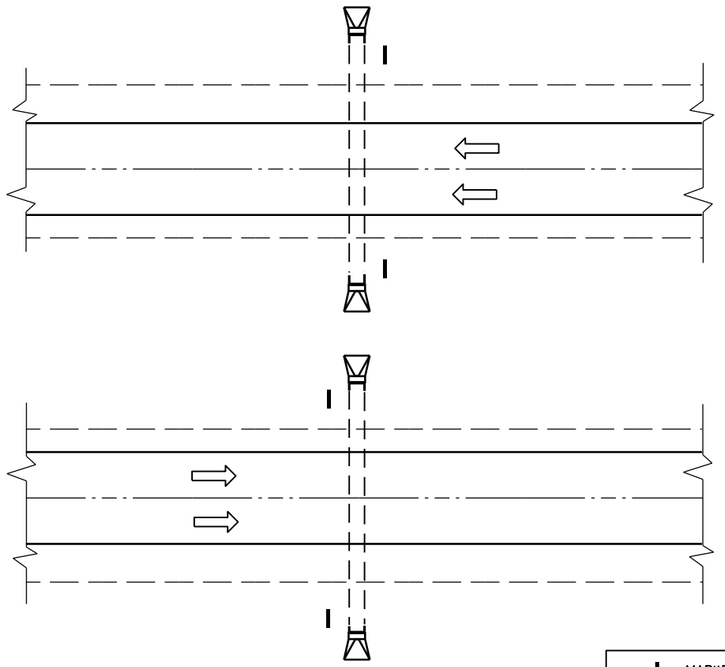
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

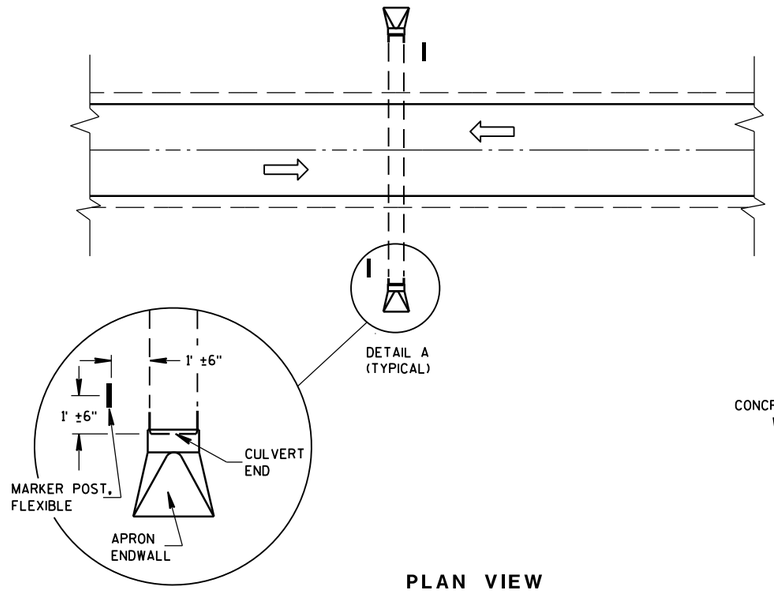
6

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



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

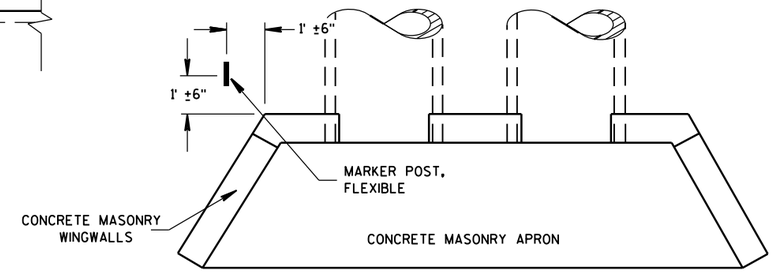
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

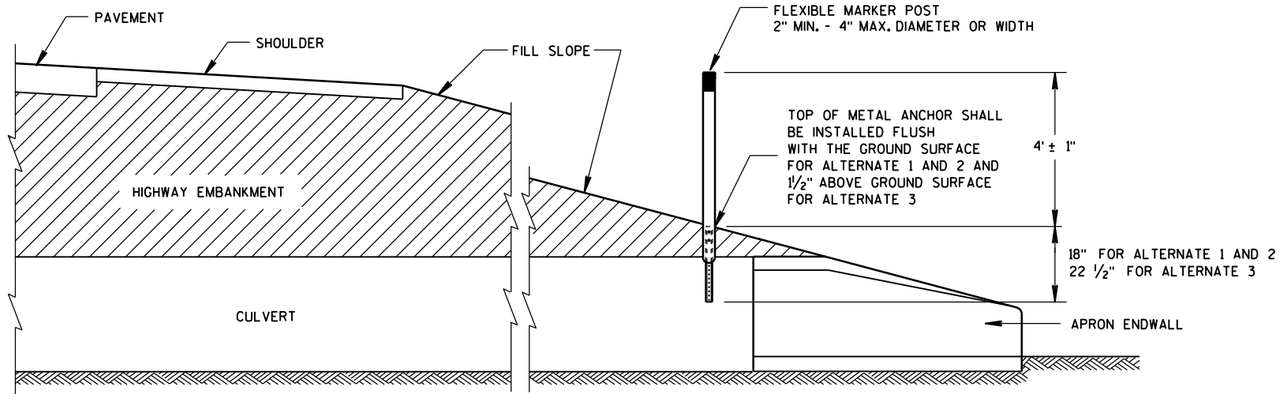
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

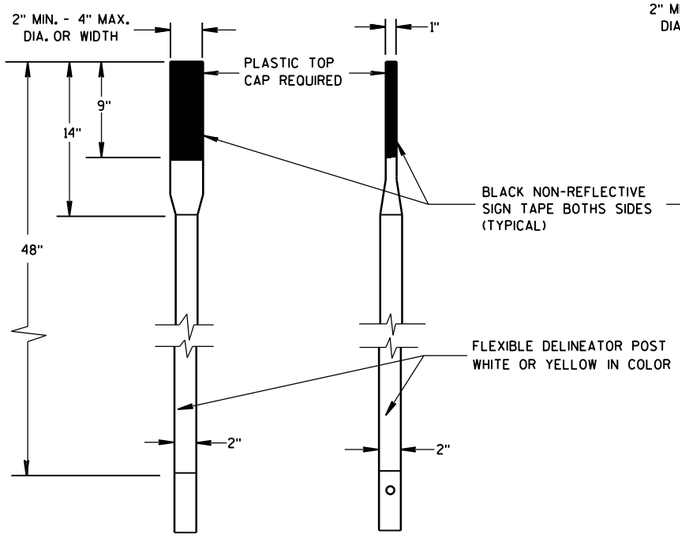
FLEXIBLE MARKER POST

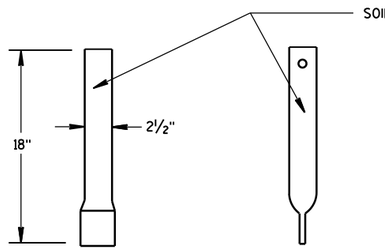
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

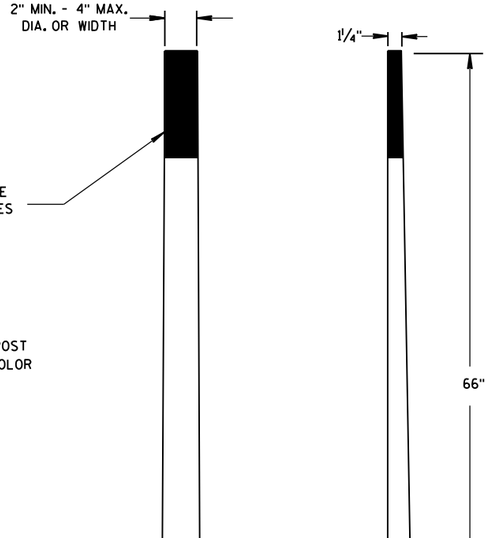
S.D.D. 15 A 3-2a





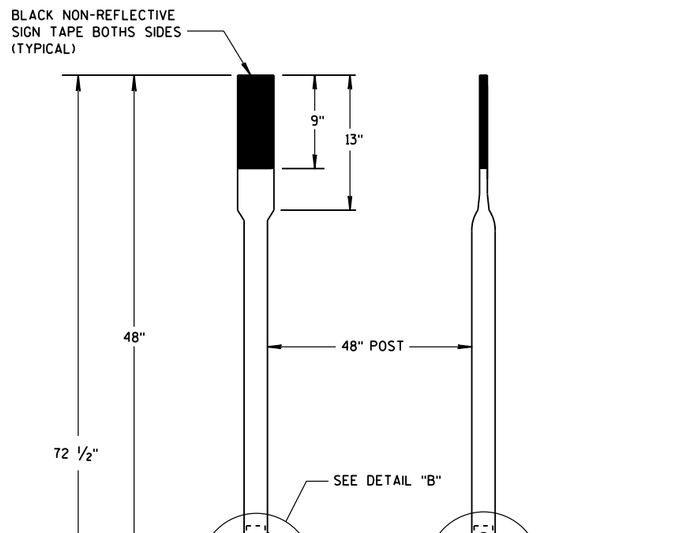
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

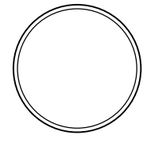
ALTERNATE 2



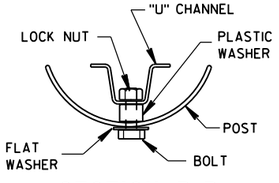
FRONT VIEW SIDE VIEW

ALTERNATE 3

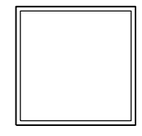
FLEXIBLE MARKER POSTS



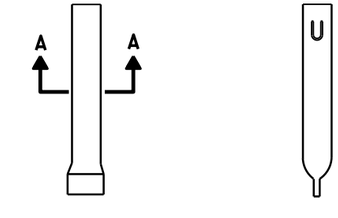
SECTION A-A



SECTION B-B

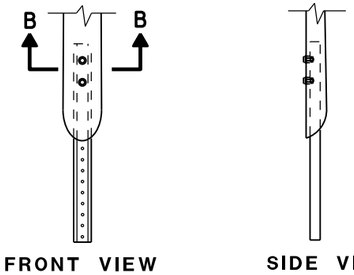


SECTION C-C



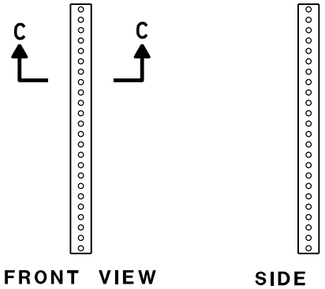
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

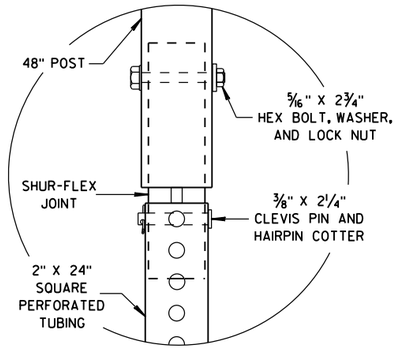
ALTERNATE 2



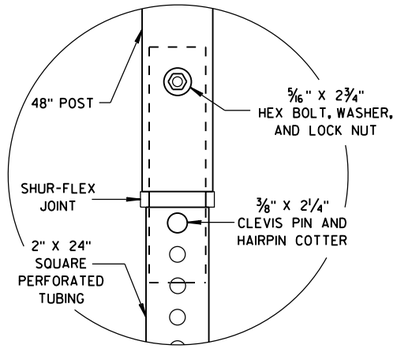
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

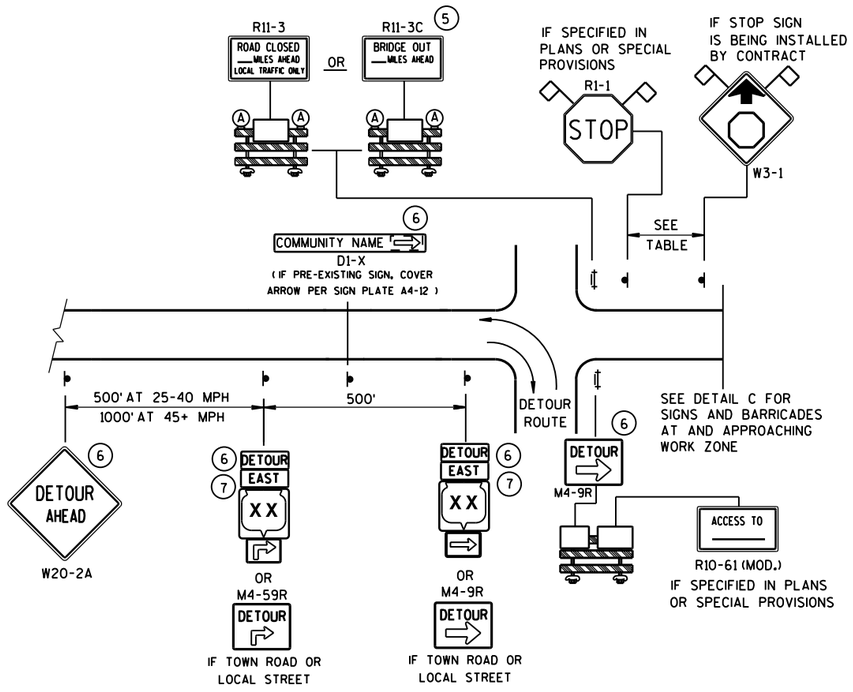
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

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

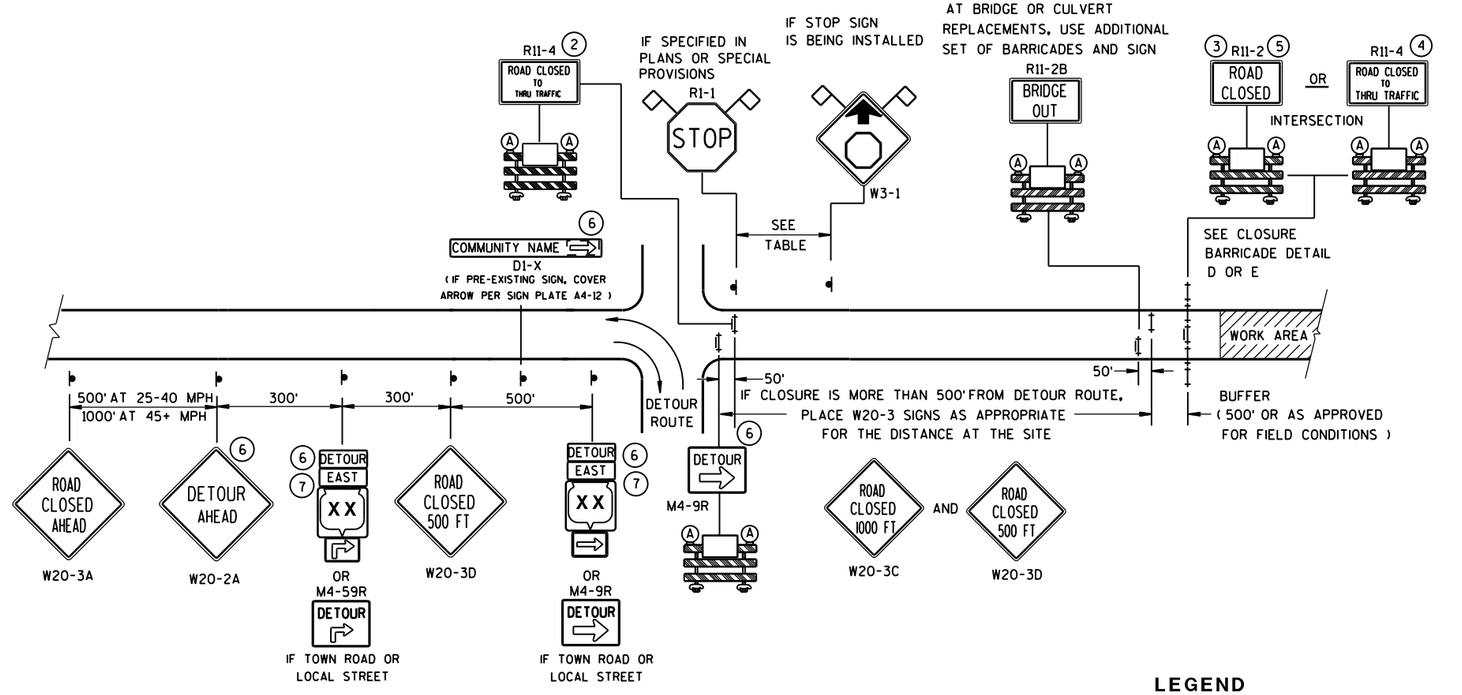
6

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



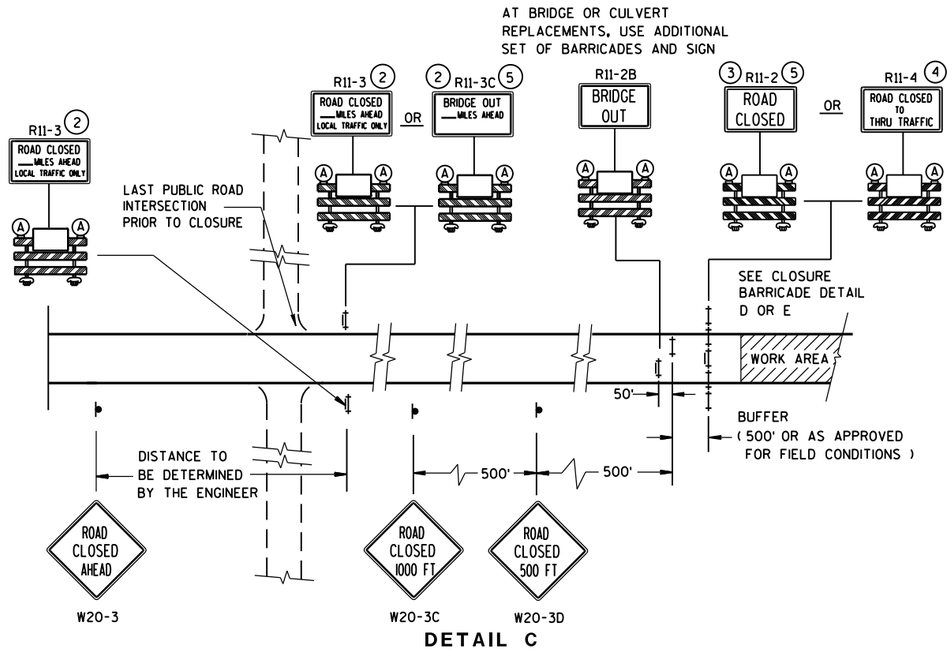
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

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)

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

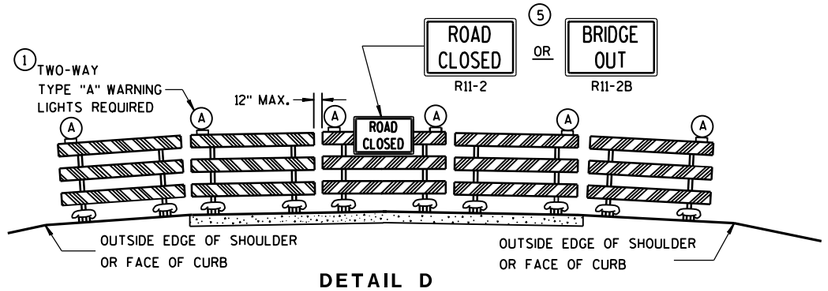
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

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

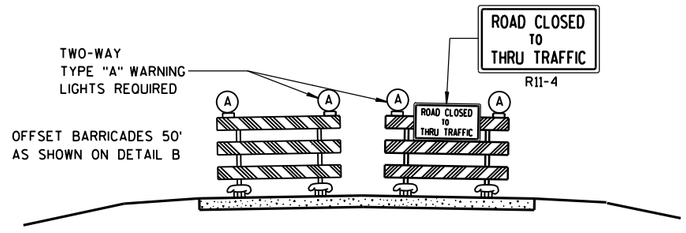
S.D.D. 15 C 2-6a



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

6

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.

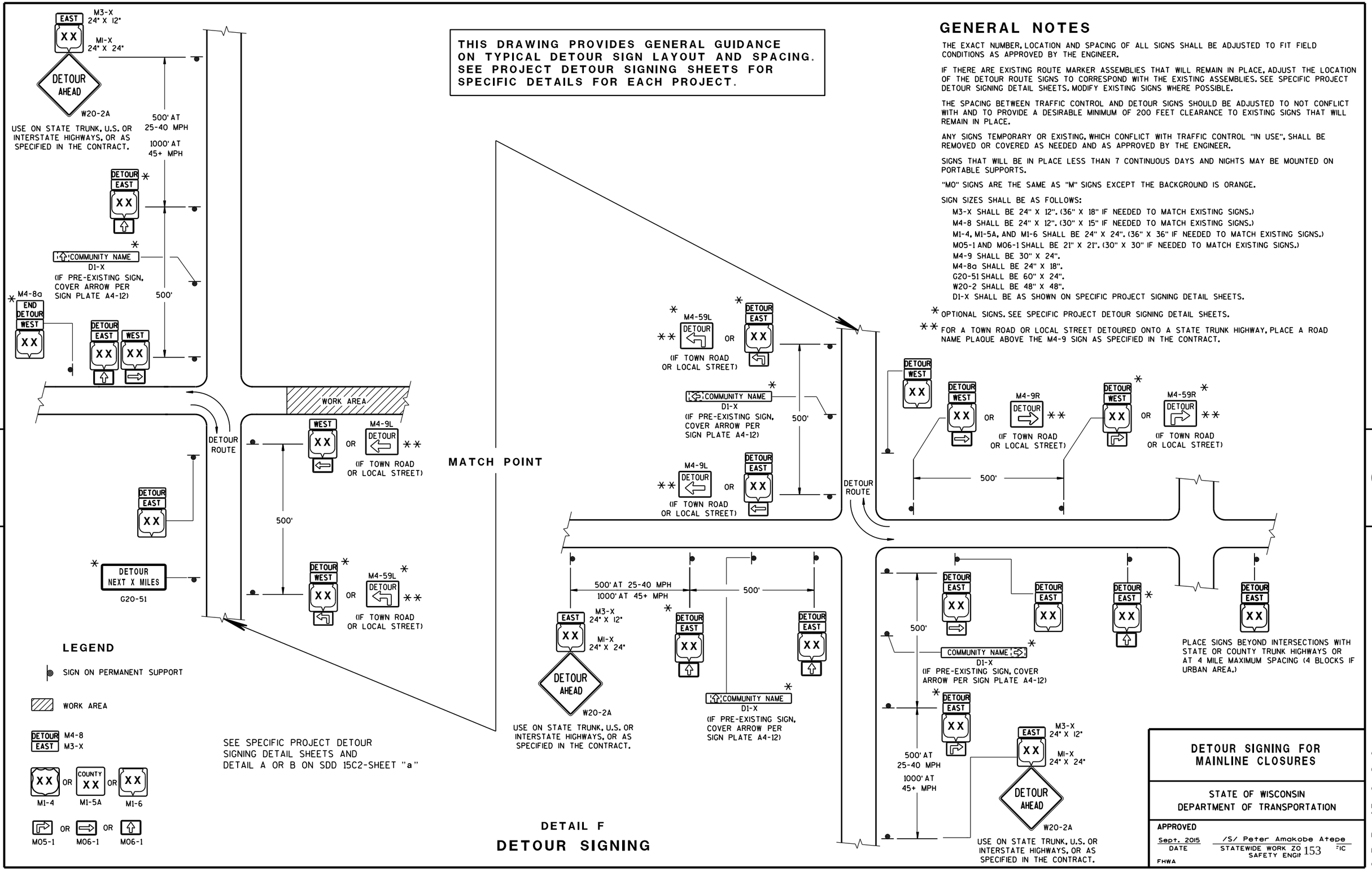
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

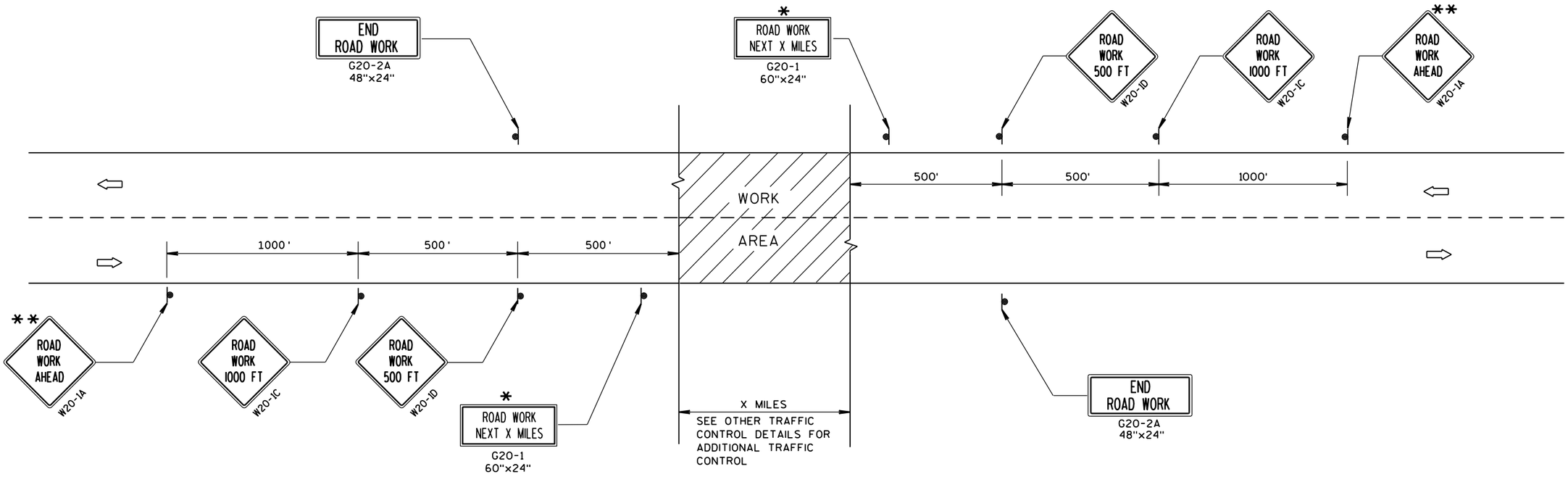
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO... SAFETY ENGI... FIC

FHWA

S.D.D. 15 C 2-6c

S.D.D. 15 C 2-6c



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.

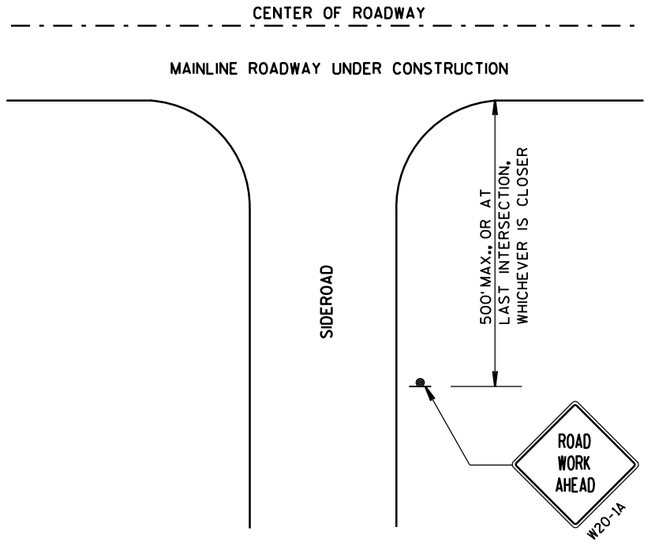
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

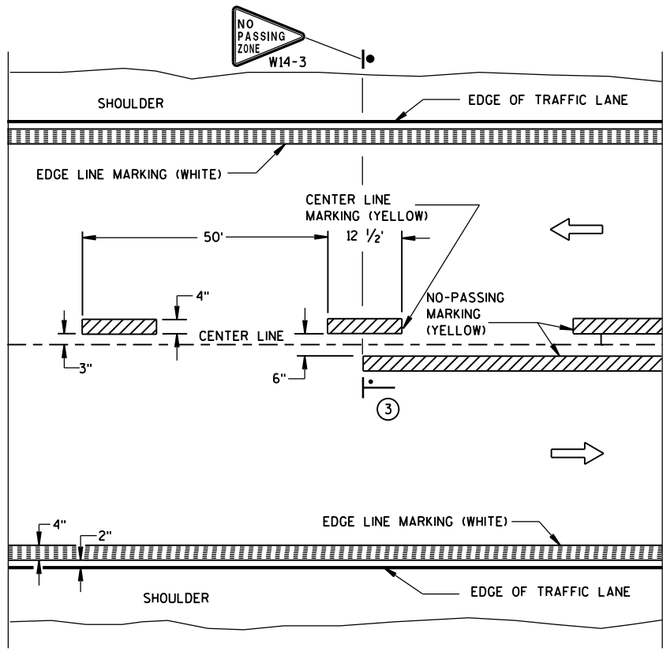
FHWA

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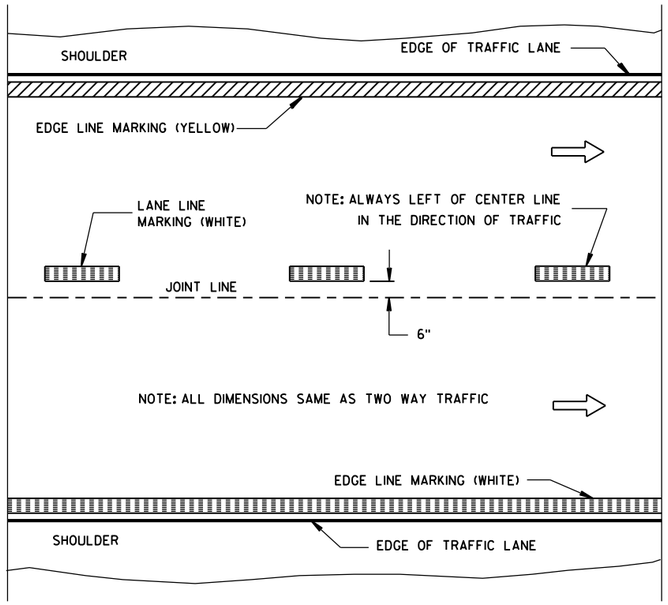
S.D.D. 15 C 4-3

6

S.D.D. 15 C 4-3

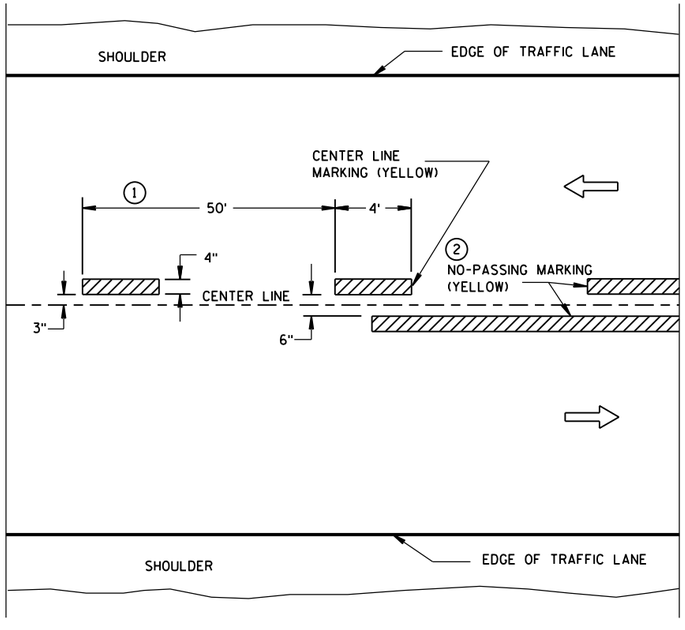


TWO WAY TRAFFIC

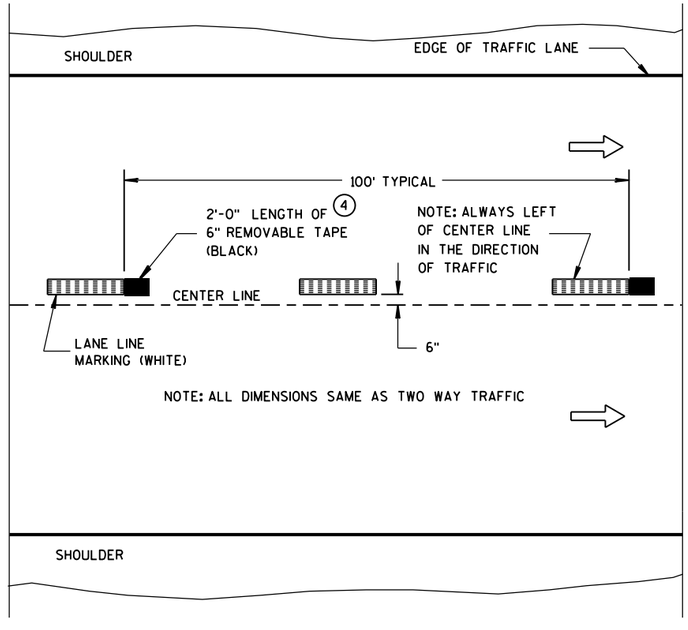


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

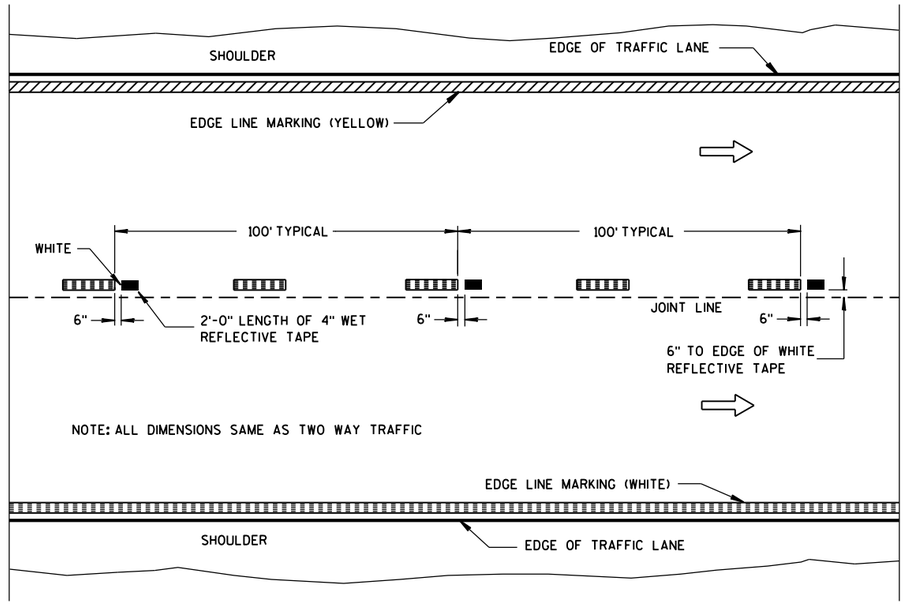
GENERAL NOTES

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

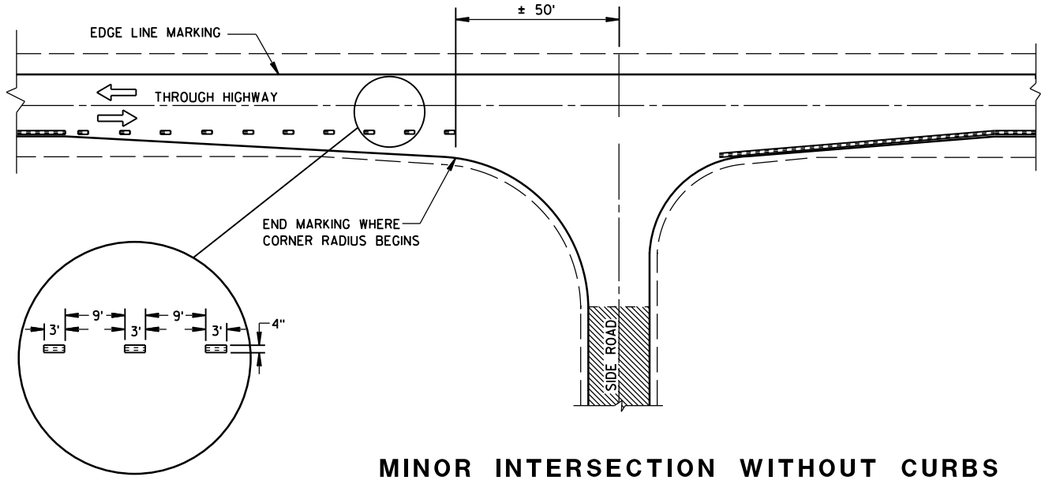
FHWA

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S.D.D. 15 C 8-16a

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.

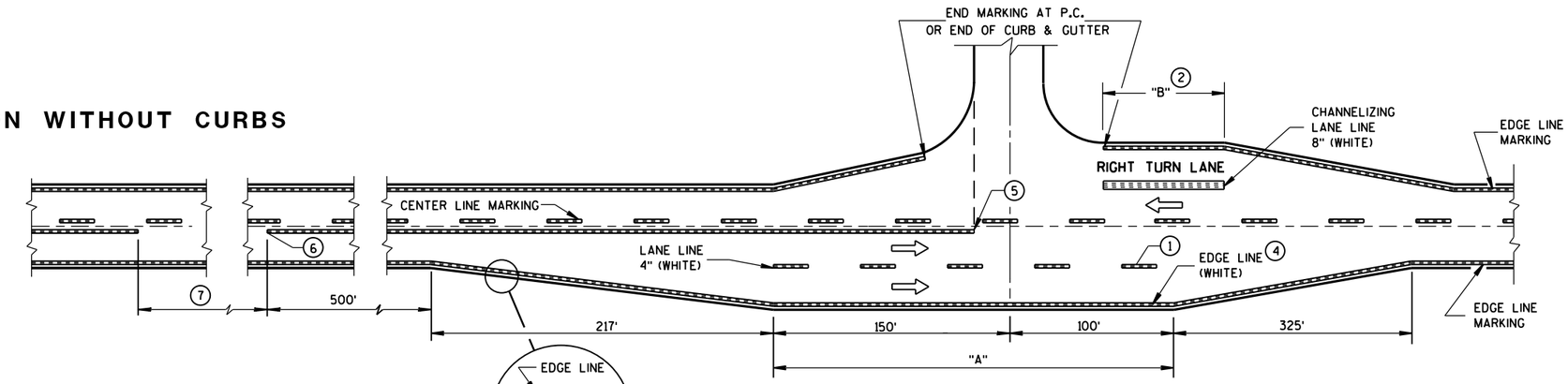
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

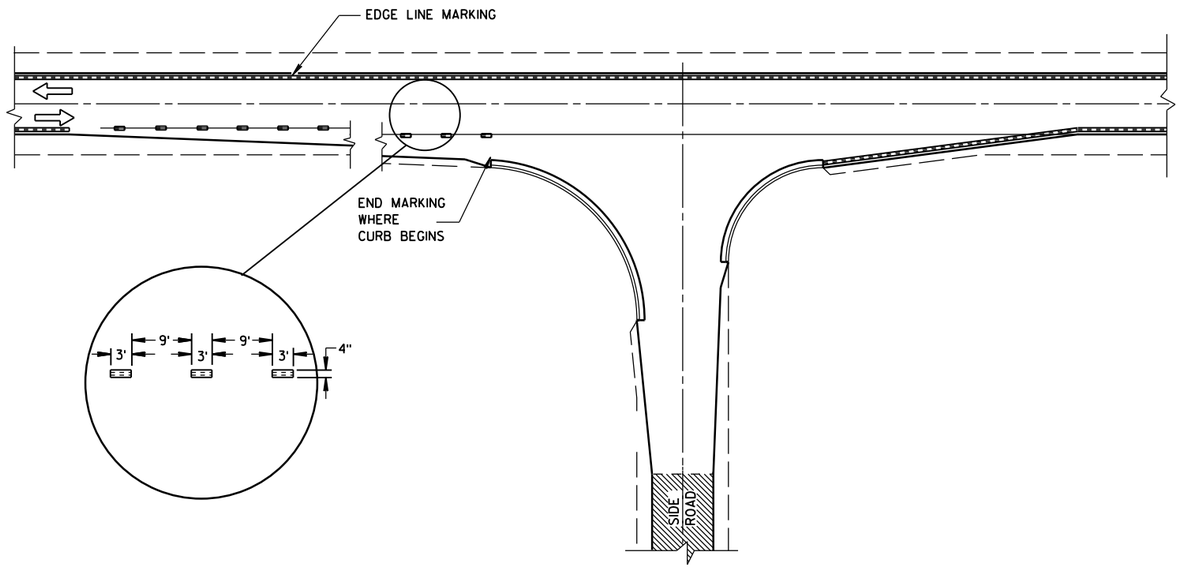
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



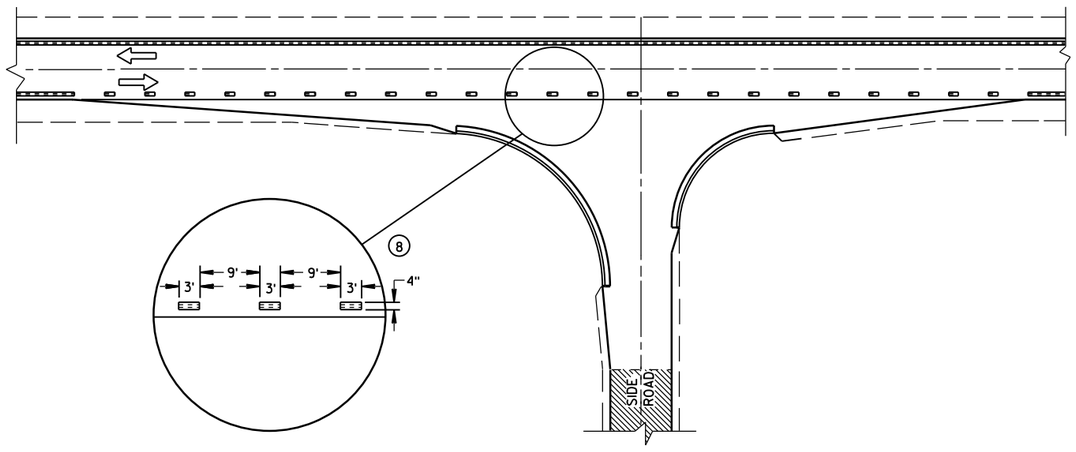
MAJOR INTERSECTIONS

(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)

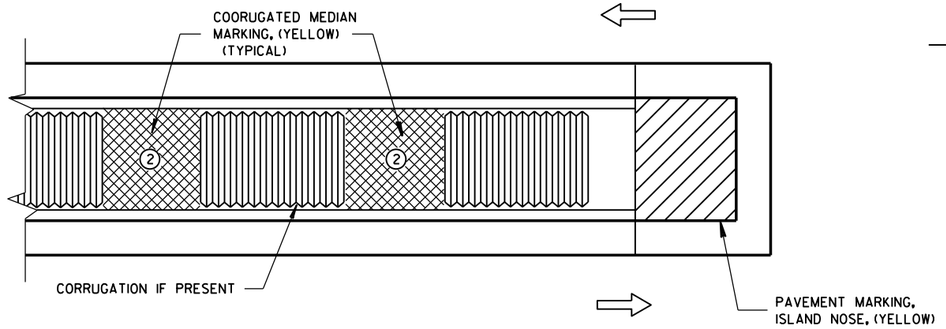
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

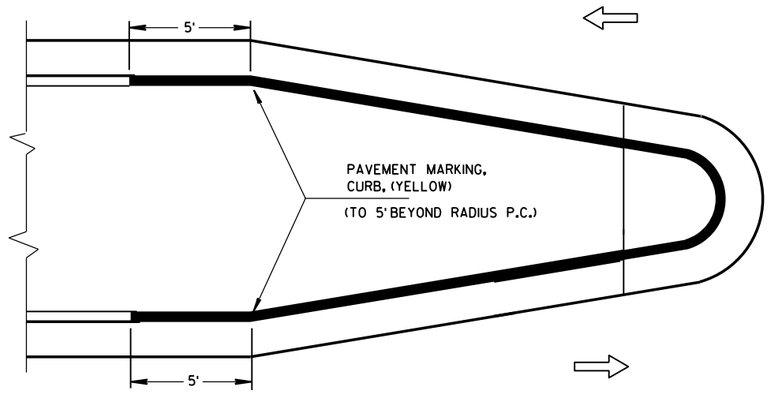
S.D.D. 15 C 8-16b

6

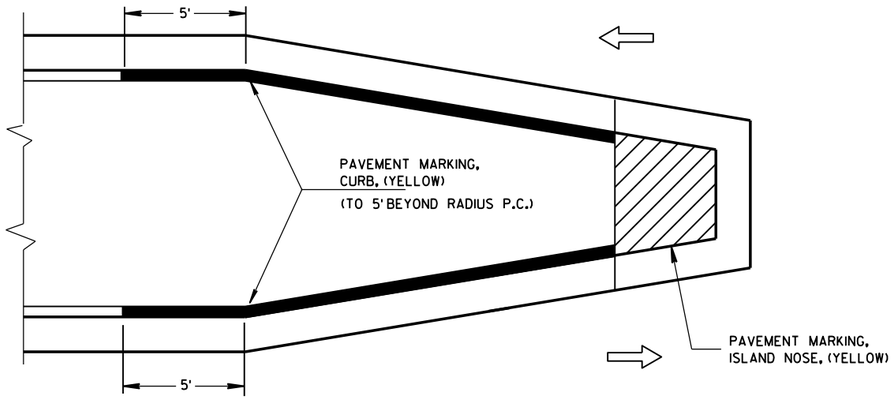
S.D.D. 15 C 8-16b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

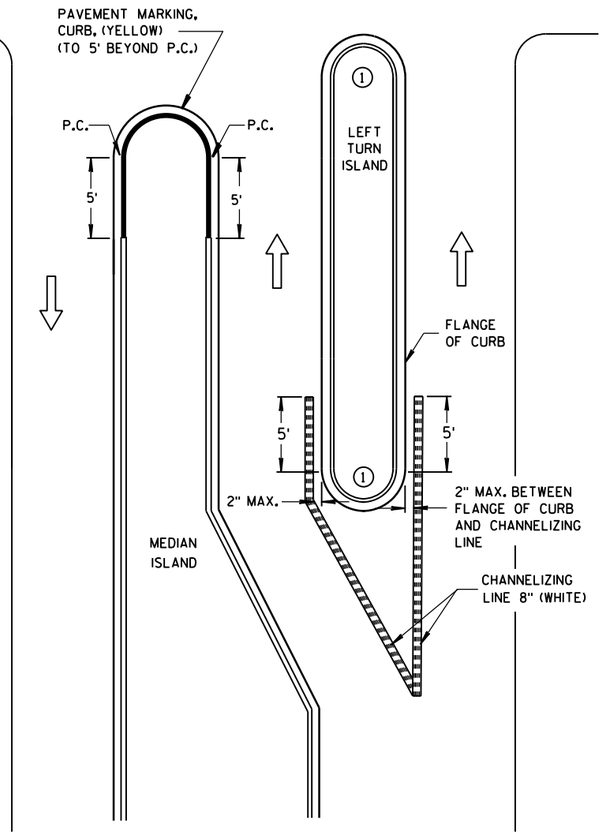


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

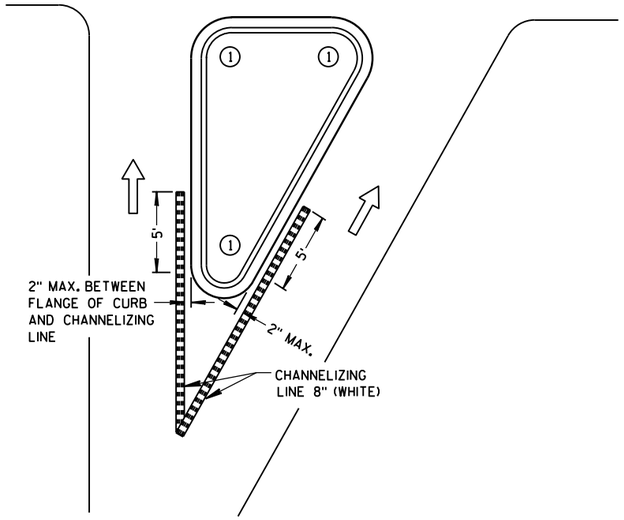


LEFT TURN & MEDIAN ISLAND

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

6

S.D.D. 15 C 8-16f

6

S.D.D. 15 C 8-16f

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

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

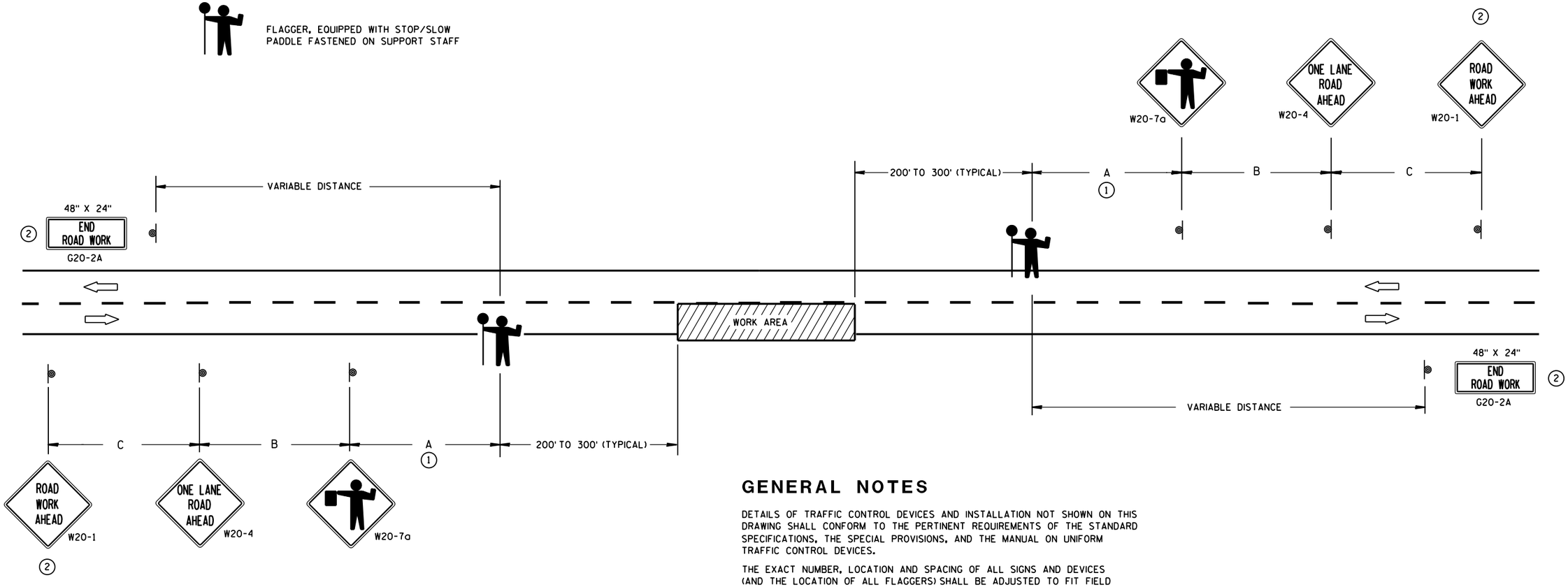
SIGN SPACING TABLE

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

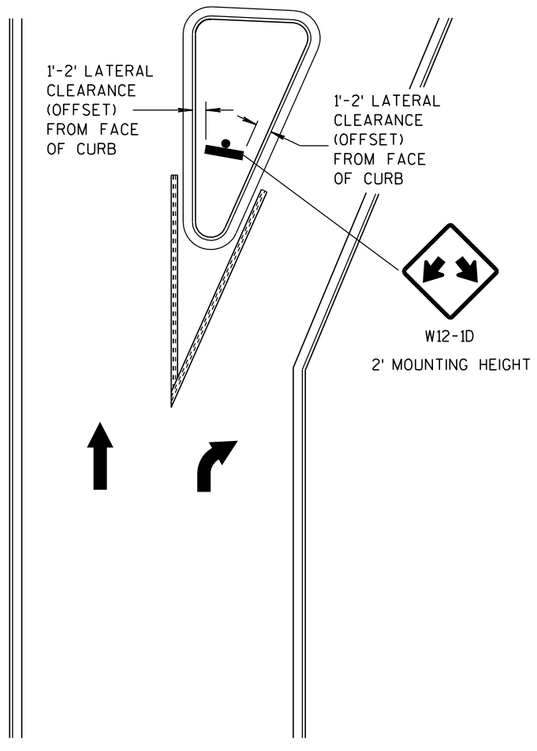
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S.D.D. 15 C 12-4

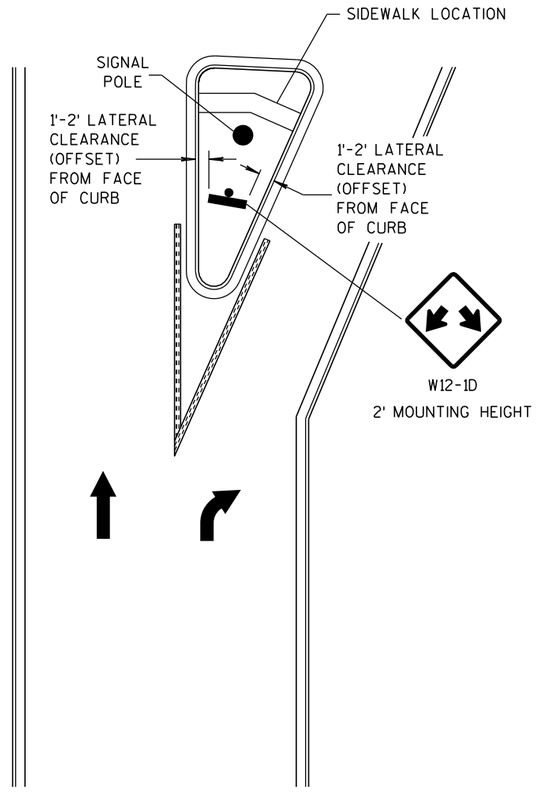
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

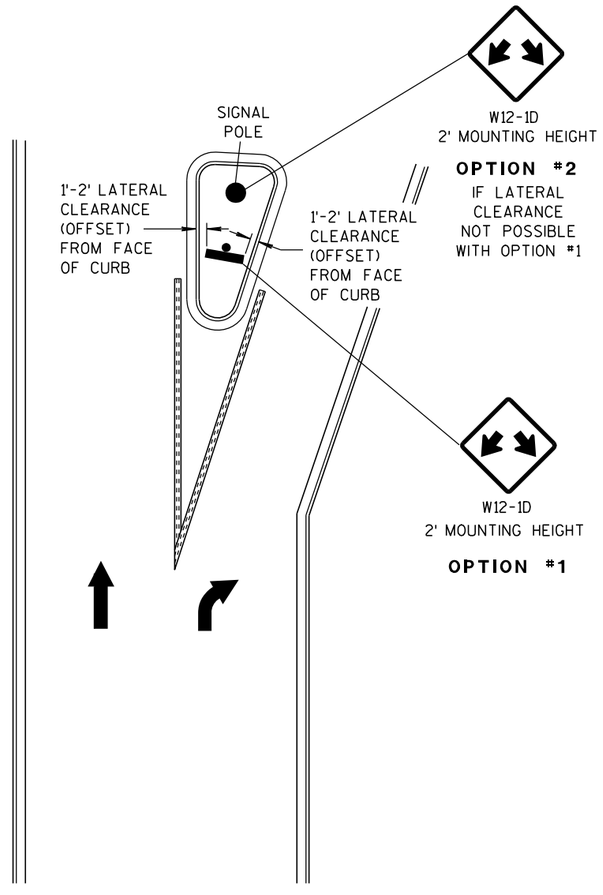
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

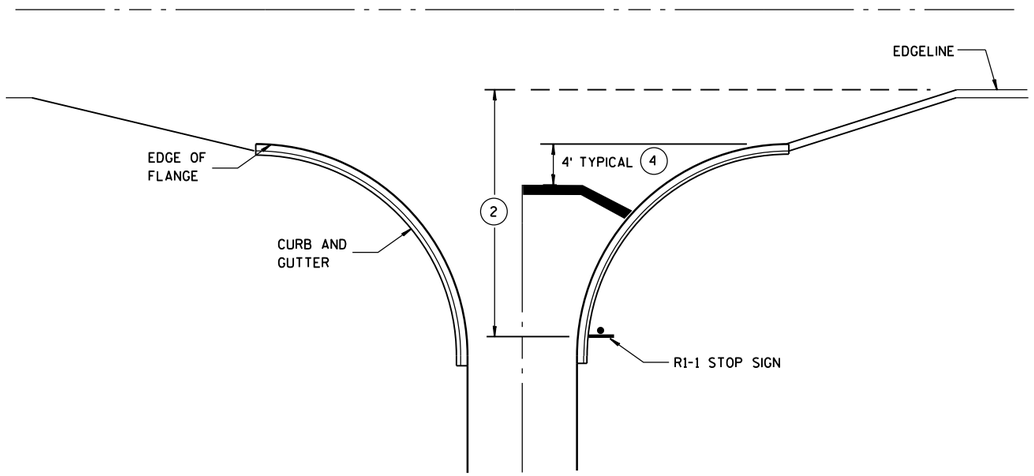
DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10-22-08 DATE	/S/ Thomas N. Nothdurft STATE TRAFFIC ENGINEER
FHWA	

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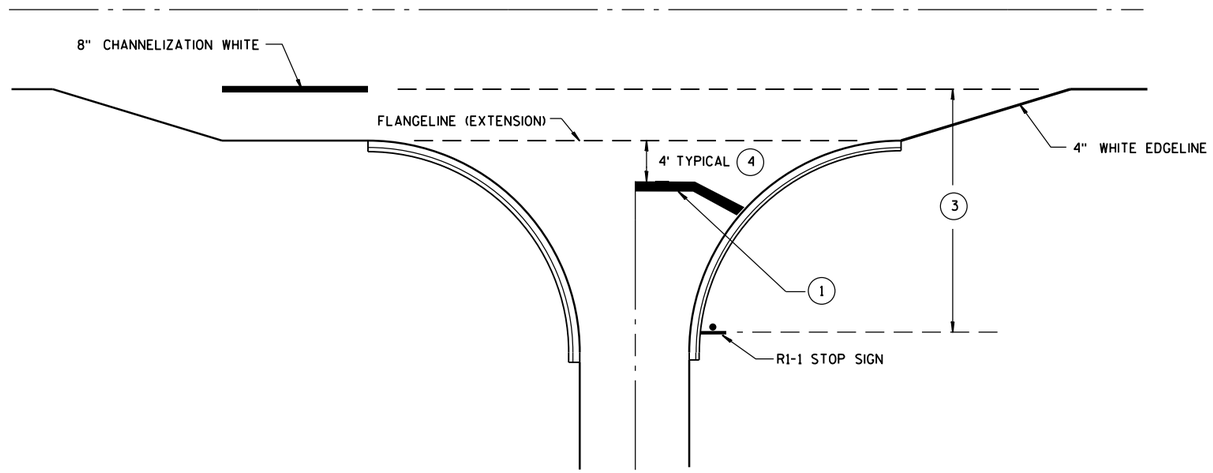
S.D.D. 15 C 27-1

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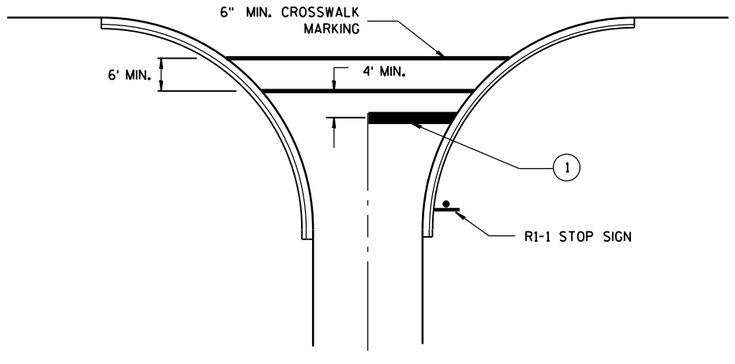
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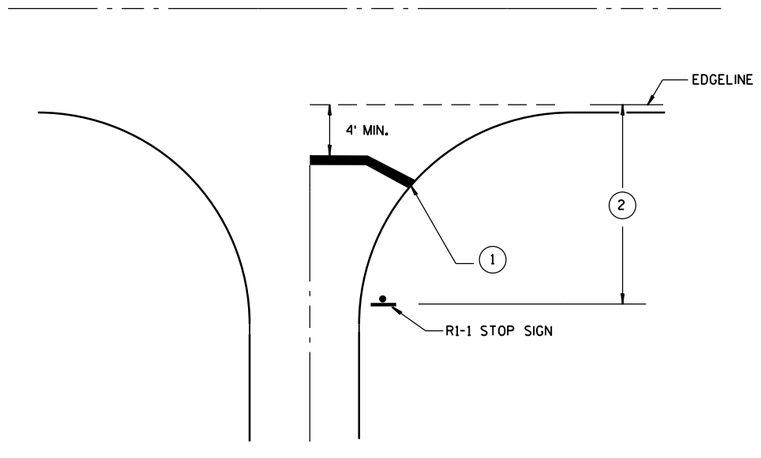
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

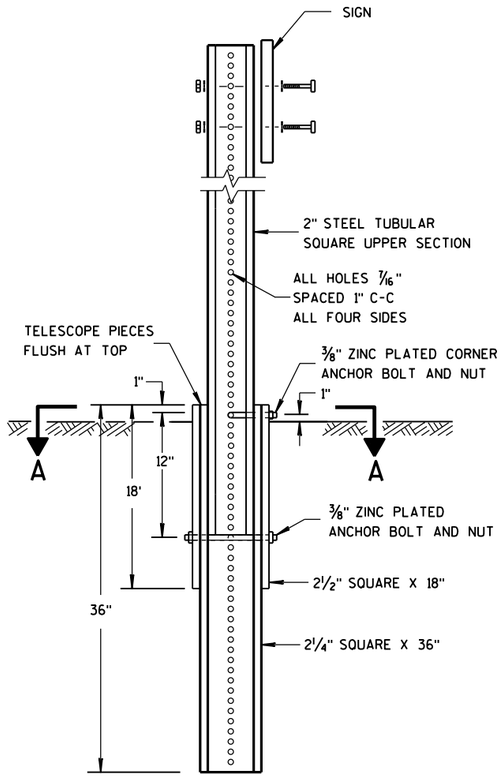
4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

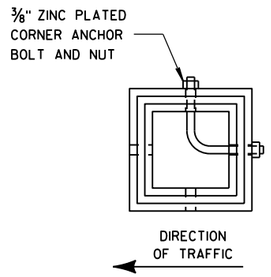
FHWA

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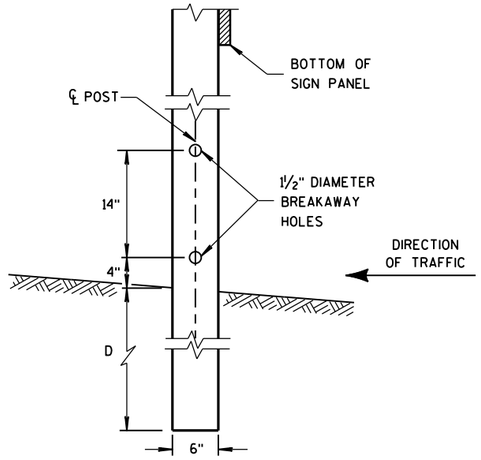
S.D.D. 15 C 33-1



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



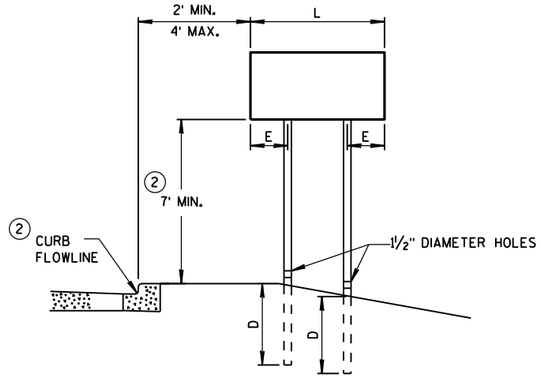
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

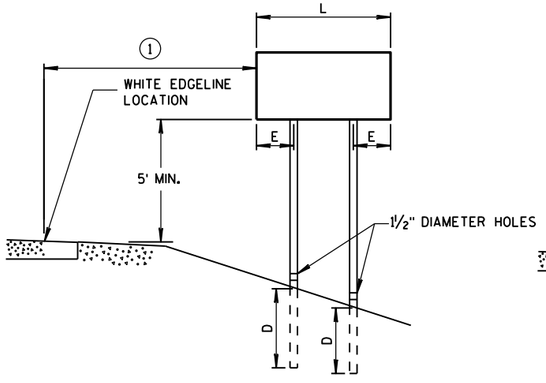
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

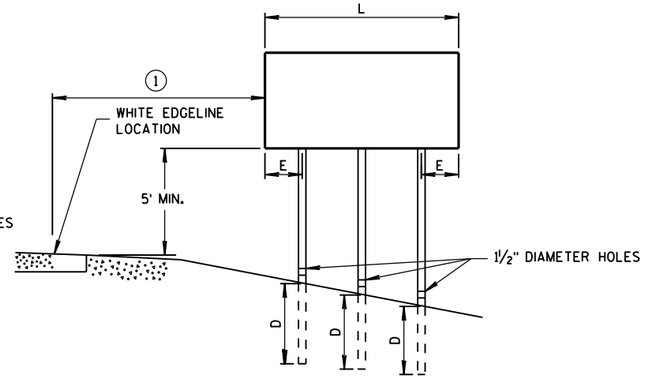
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

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

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

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

WOOD POST EMBEDMENT DEPTH

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

4" X 6" WOOD POST

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

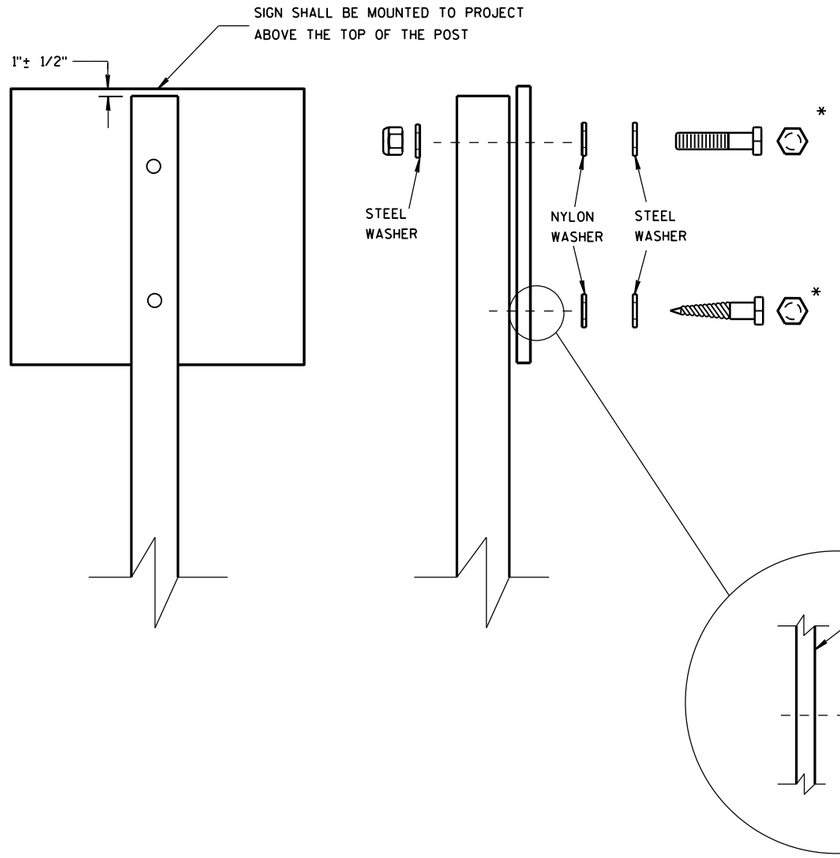
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPOI

6

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



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

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

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

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

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

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

LAG SCREWS - 3/8" X 3"

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

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

6

6

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

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

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

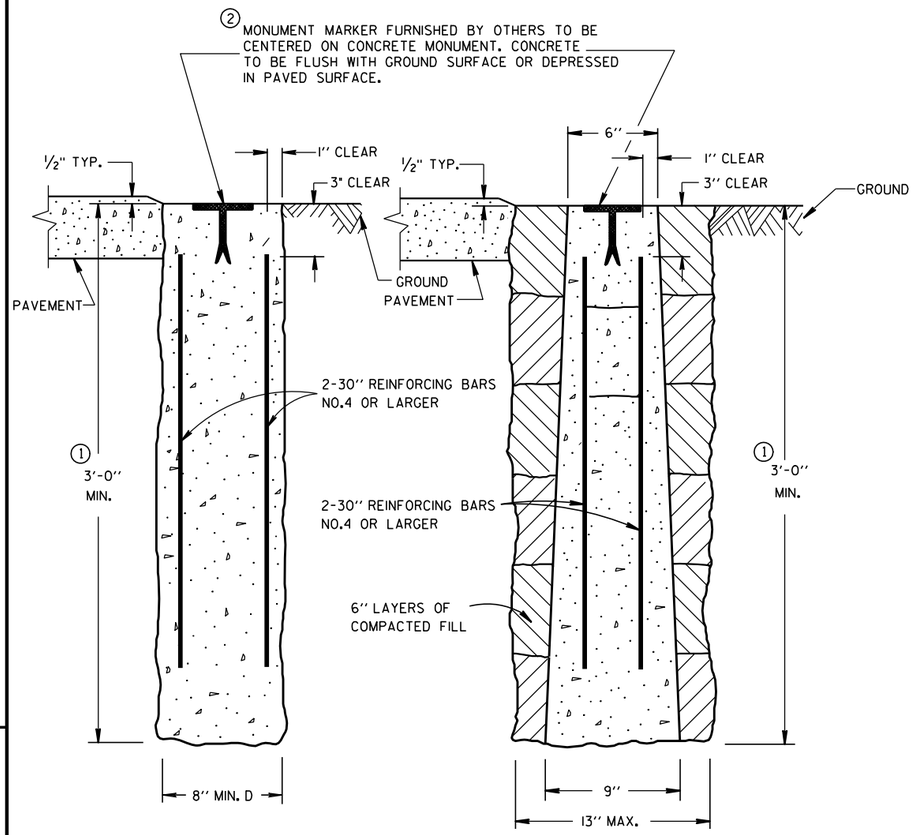
APPROVED

Feb. 2015
DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

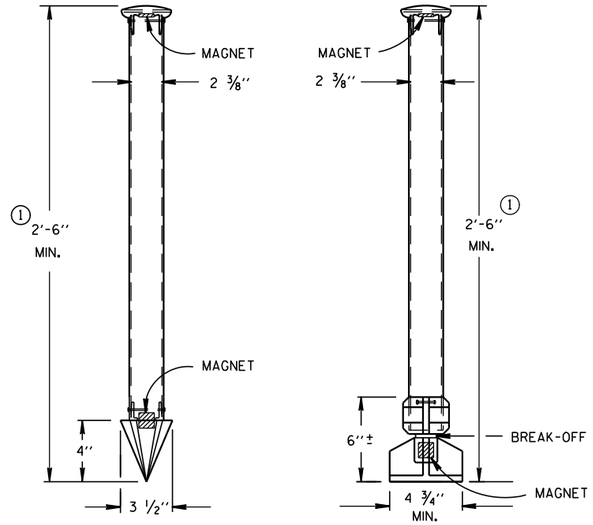
SIGN



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



TYPE C DRIVE-IN MONUMENT

TYPE D BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

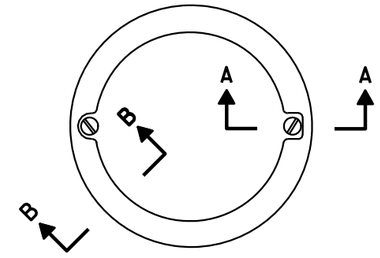
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

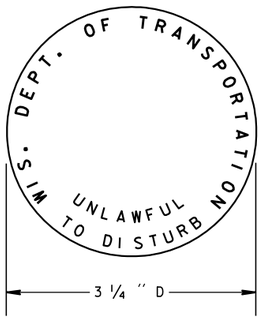
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

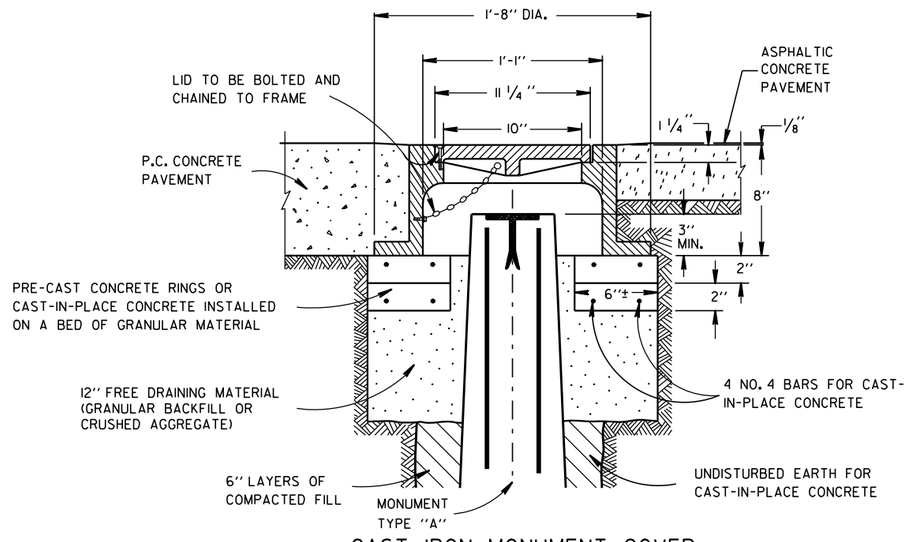
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

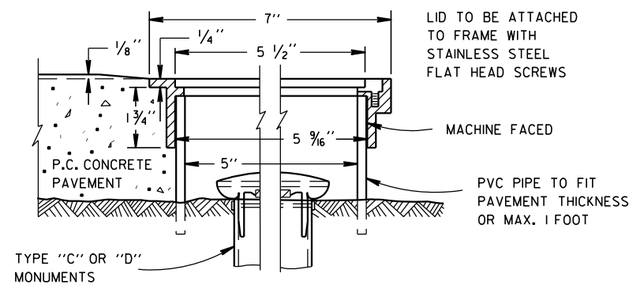


② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

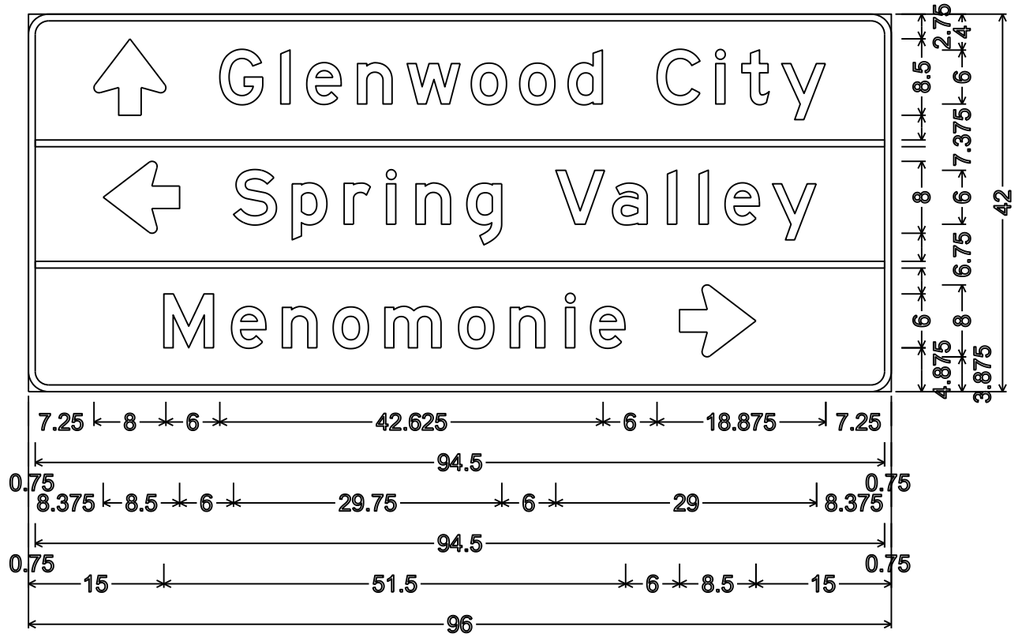
9/22/1999 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP NEER

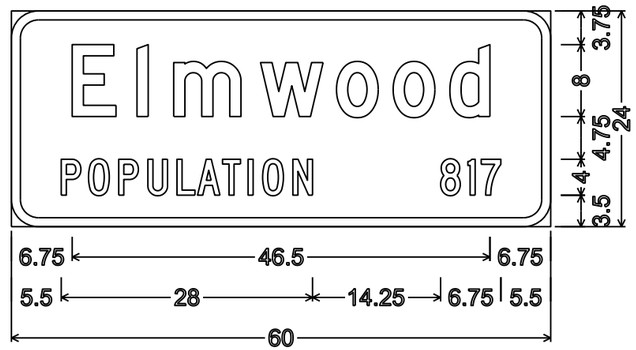
FHWA

6

S.D.D. 16 A 1-6



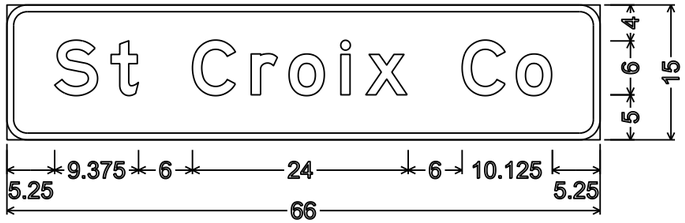
D1-3; 2.250" Radius, 0.750" Border



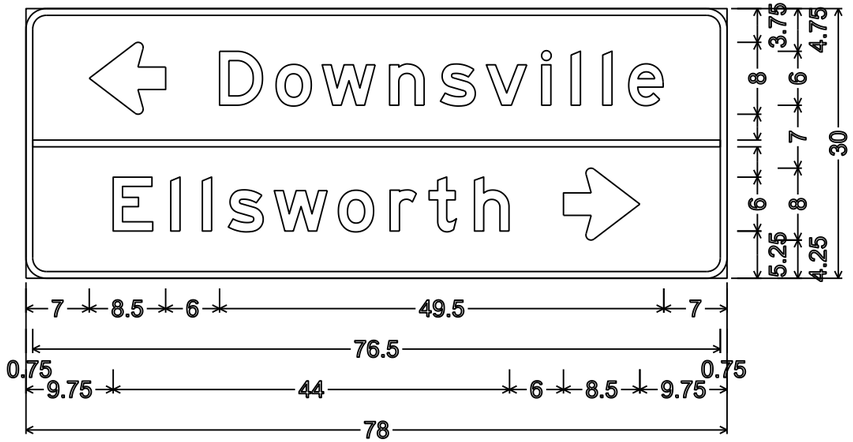
I2-3;
3.000" Radius, 1.000" Border,
"Elmwood" D; "POPULATION" C; "817" C

NOTES

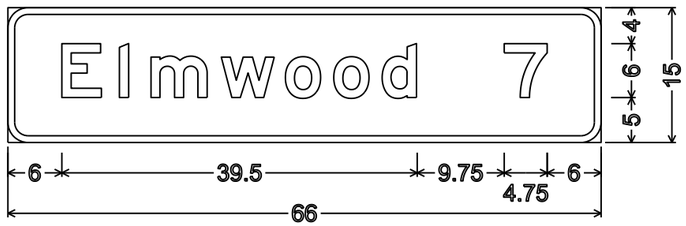
1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



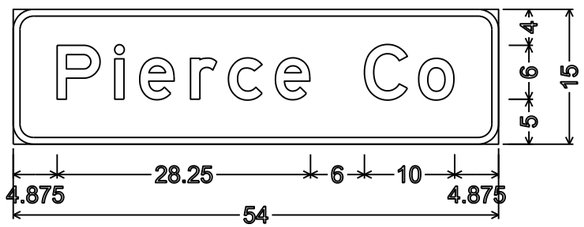
I2-2; 2.250" Radius, 0.750" Border



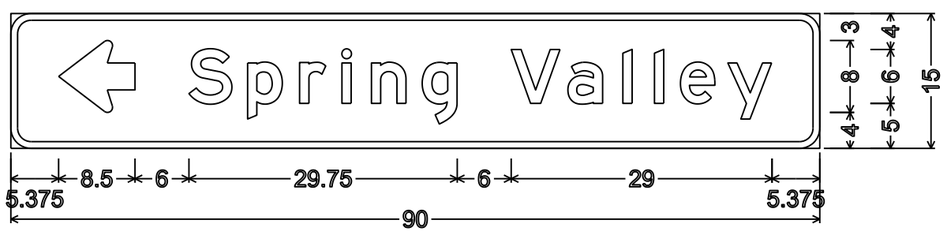
D1-2; 2.250" Radius, 0.750" Border



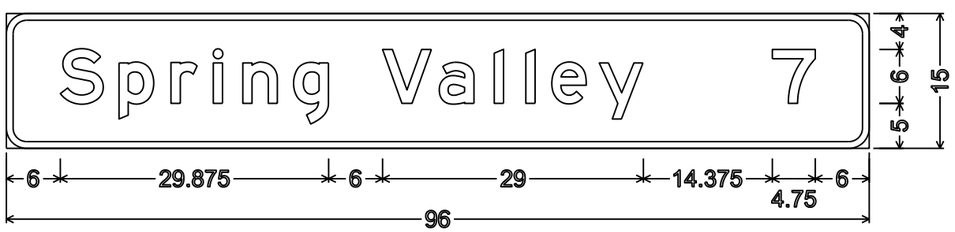
D2-1; 2.250" Radius, 0.750" Border



I2-2;
2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D2-1; 2.250" Radius, 0.750" Border

7

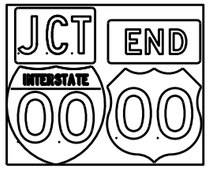
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	PERMANENT SIGNING	SHEET NO:	E

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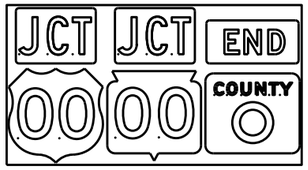
TYPICAL ASSEMBLIES



J1-1



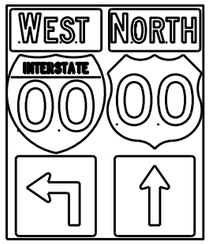
J1-2



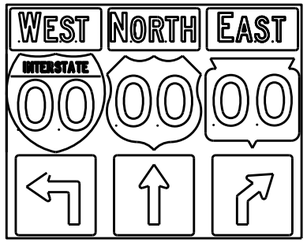
J1-3



J2-1



J2-2

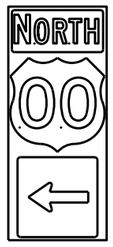


J2-3

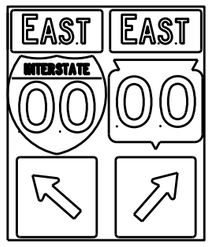


JV

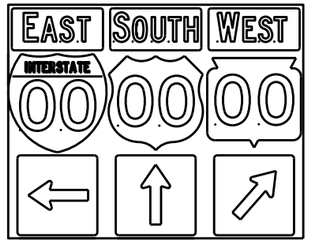
(Typical Vertical J-Assembly
See Note 10 and 11)



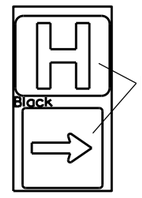
J3-1



J3-2



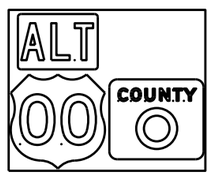
J3-3



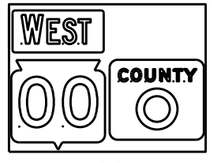
JH-1



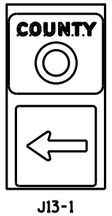
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

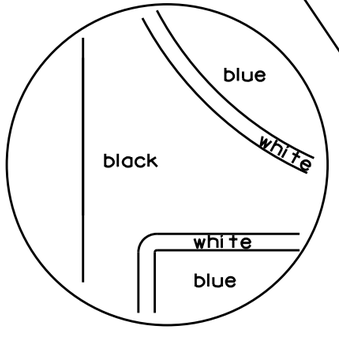


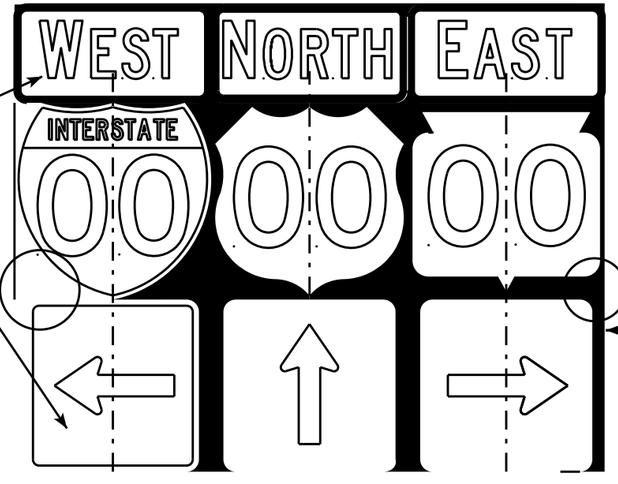
J23-1

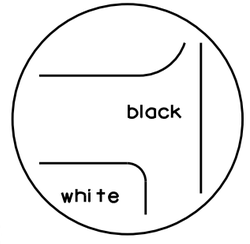


J22-1

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

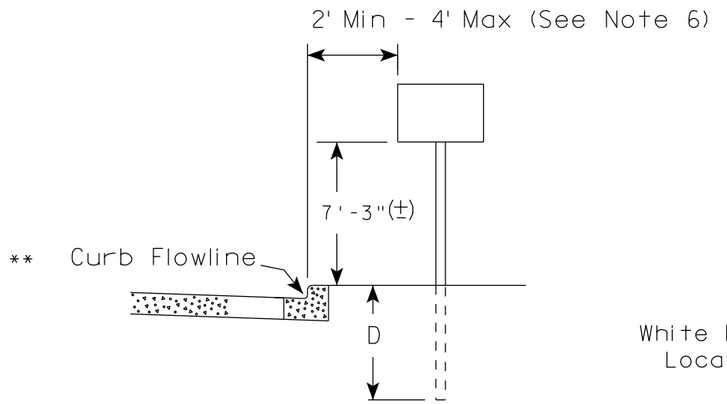
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

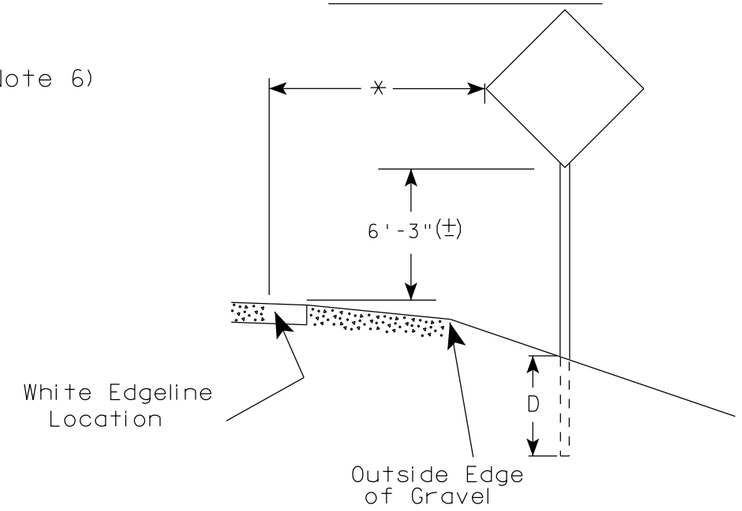
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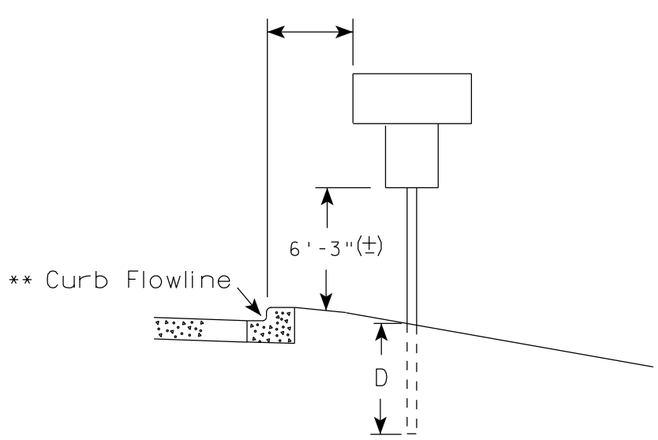
WISDOT/CADDS SHEET 42

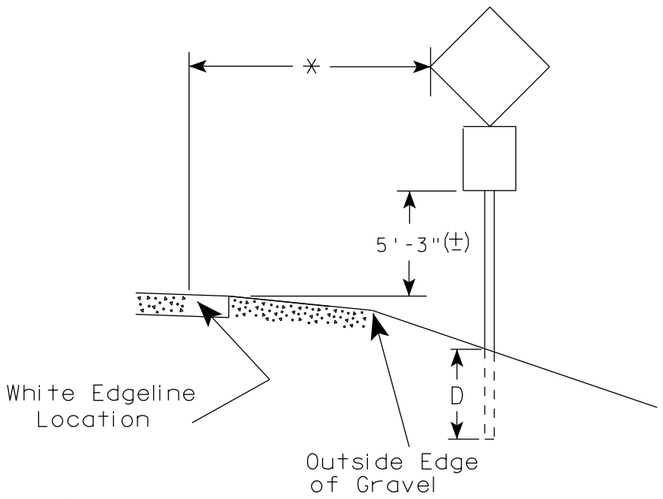
URBAN AREA



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.

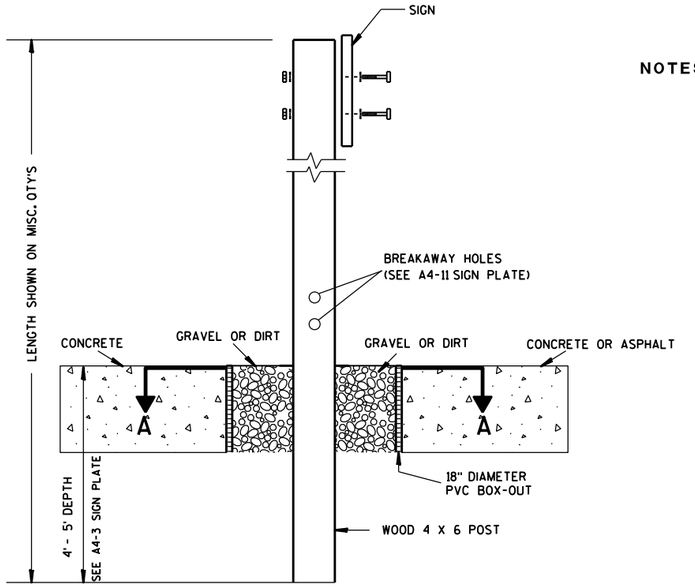
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

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

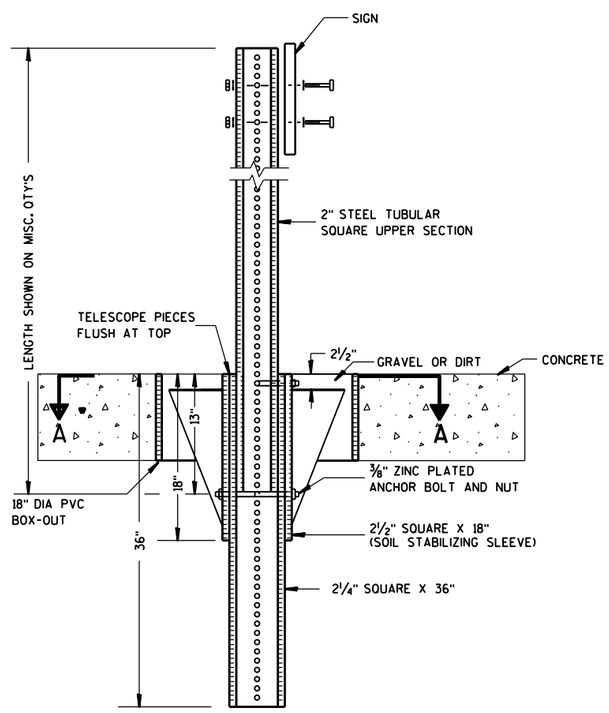
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

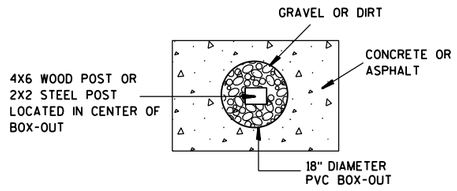
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

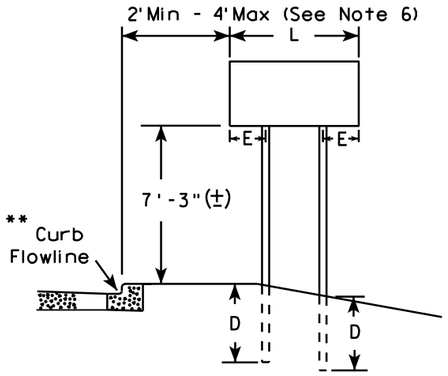
APPROVED Matthew R Rauch
for State Traffic Engineer

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

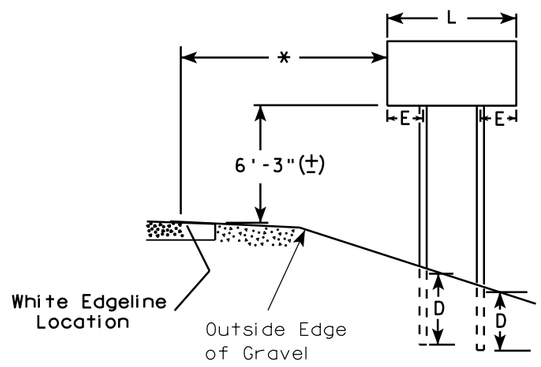
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

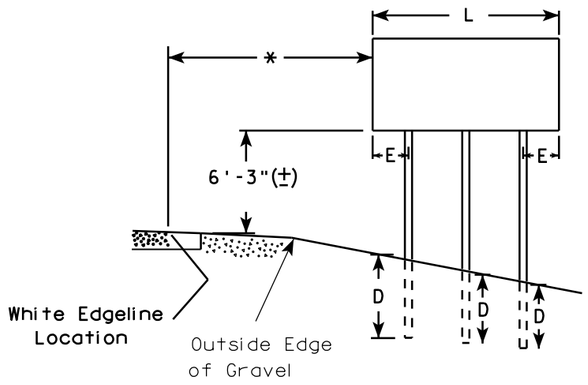
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

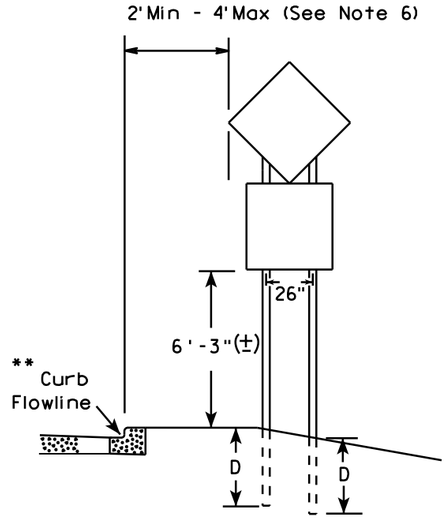
URBAN AREA



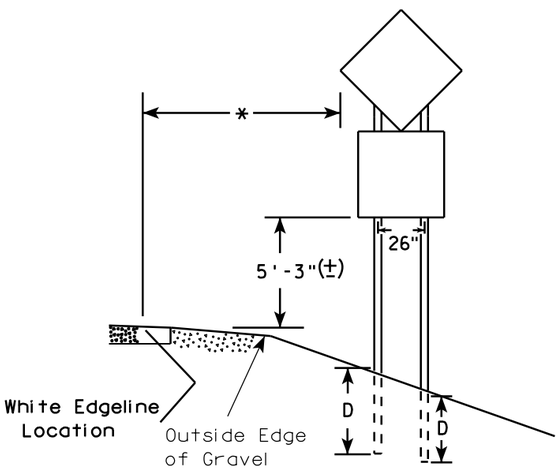
RURAL AREA (See Note 3)







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

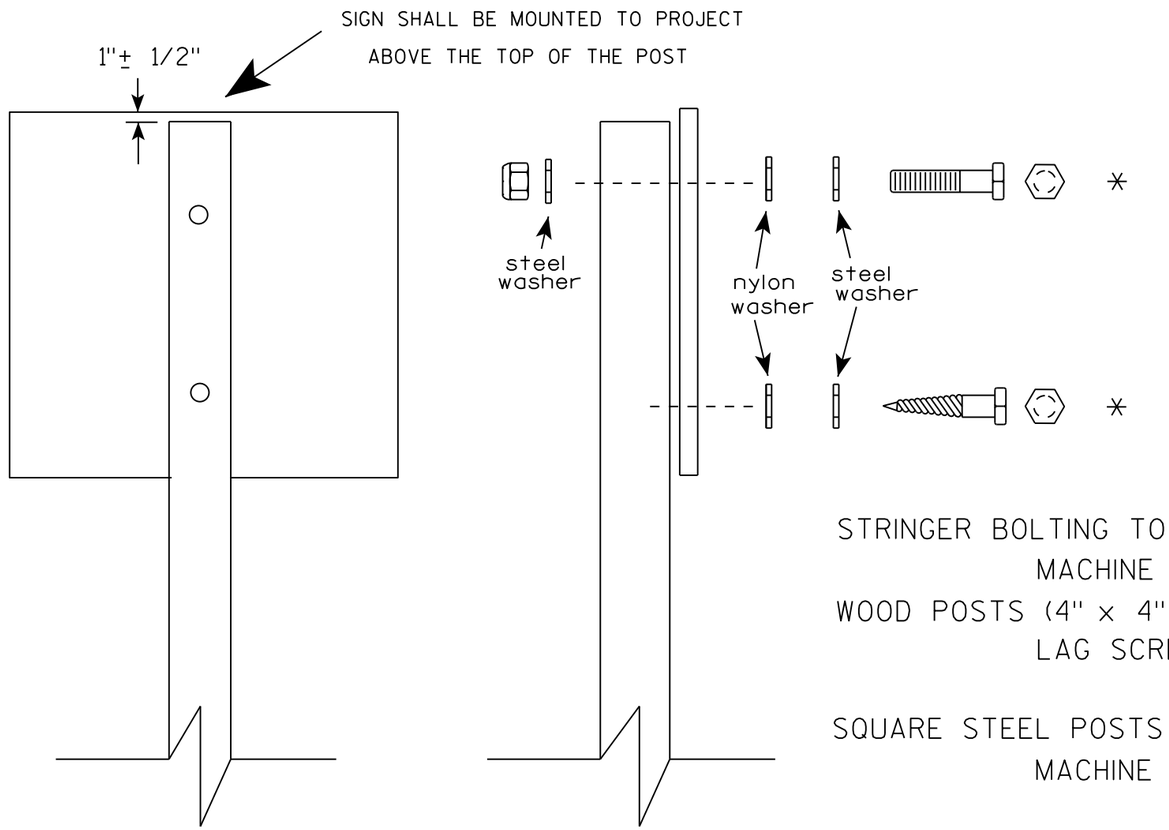
DATE 7/23/15 PLATE NO. A4-4 14

168

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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

WISDOT/CADDS SHEET 42



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

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

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

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

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

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

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

7

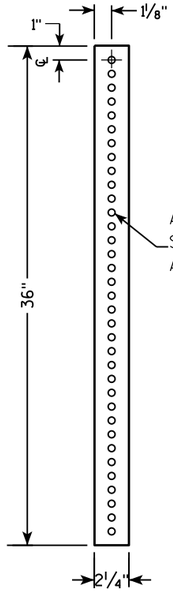
PROJECT NO:

SHEET NO: E

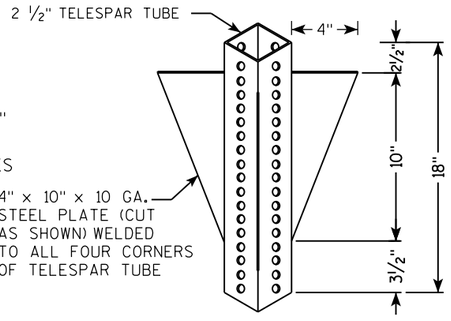
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

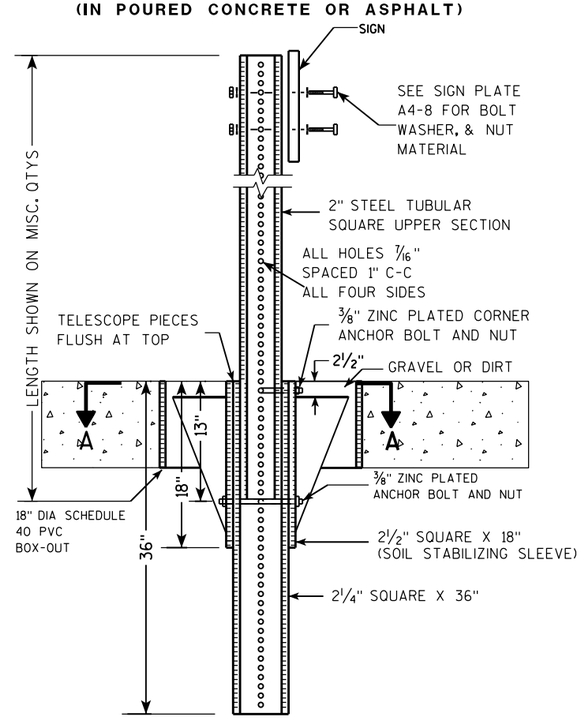
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



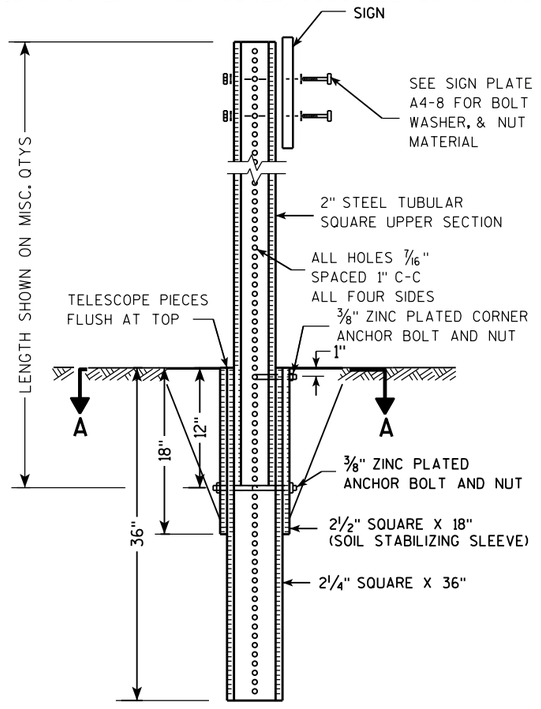
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

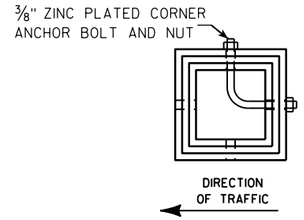


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

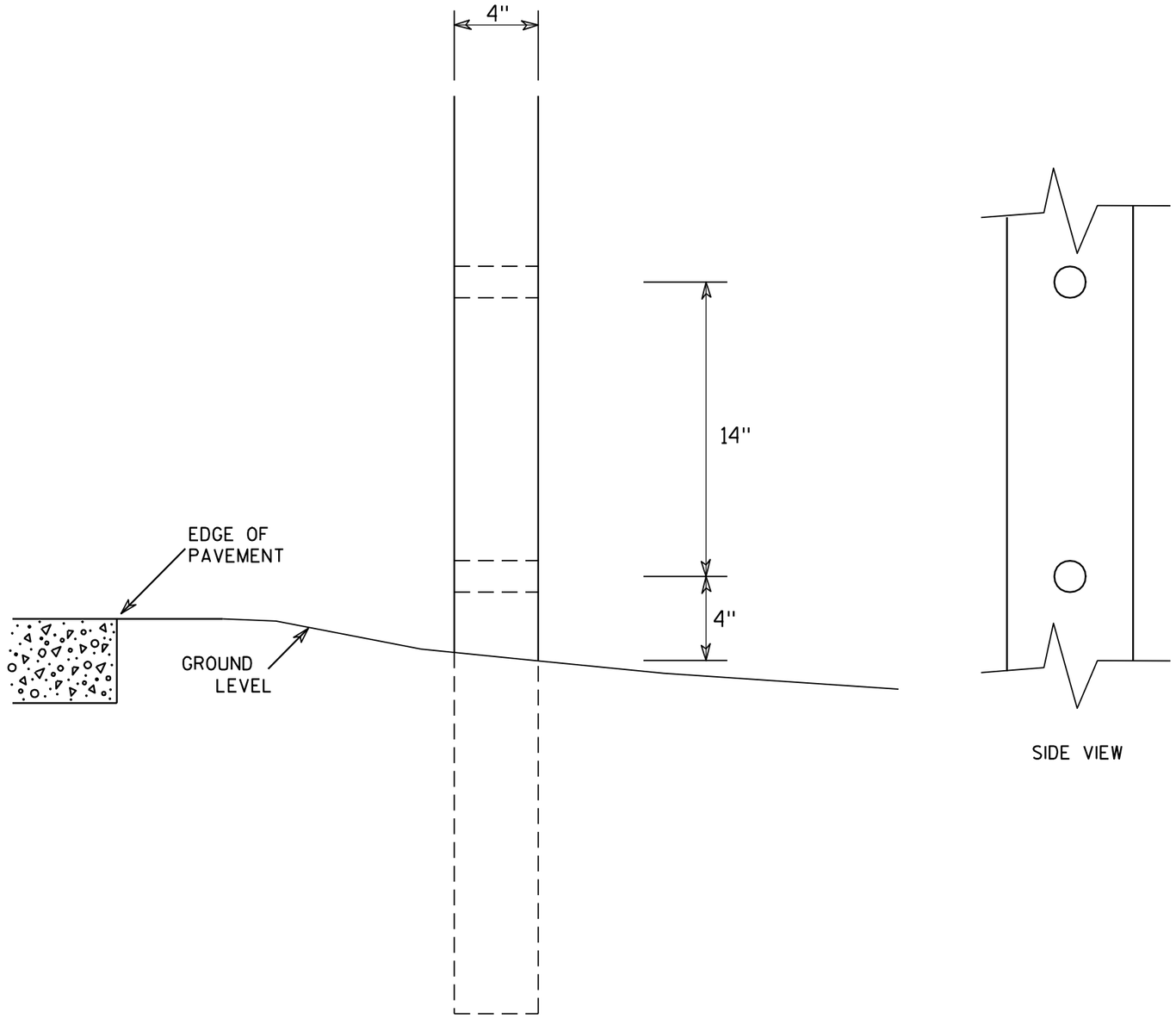
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000
WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

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

7

7

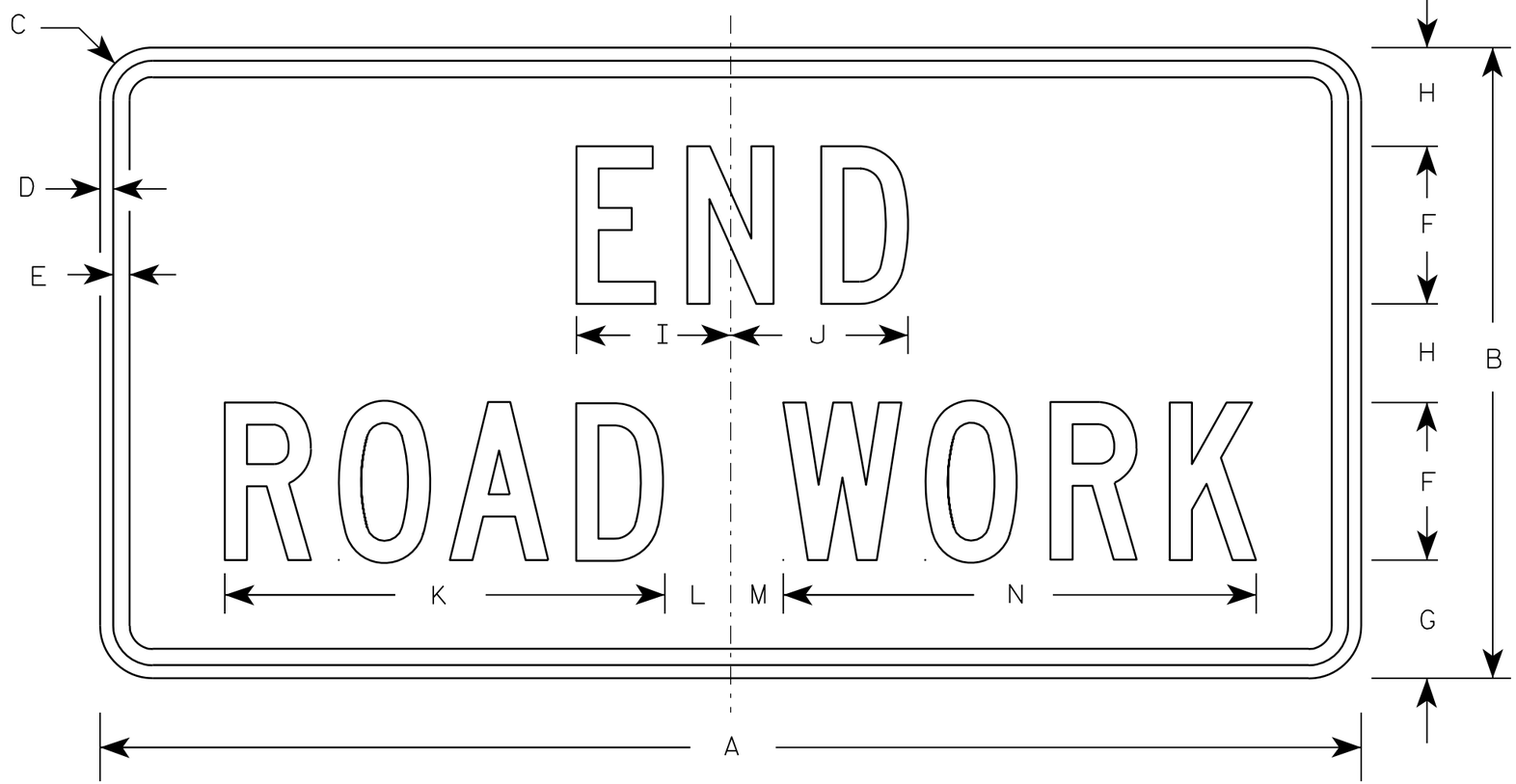
4 X 6 WOOD POST MODIFICATIONS

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: 171	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 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	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

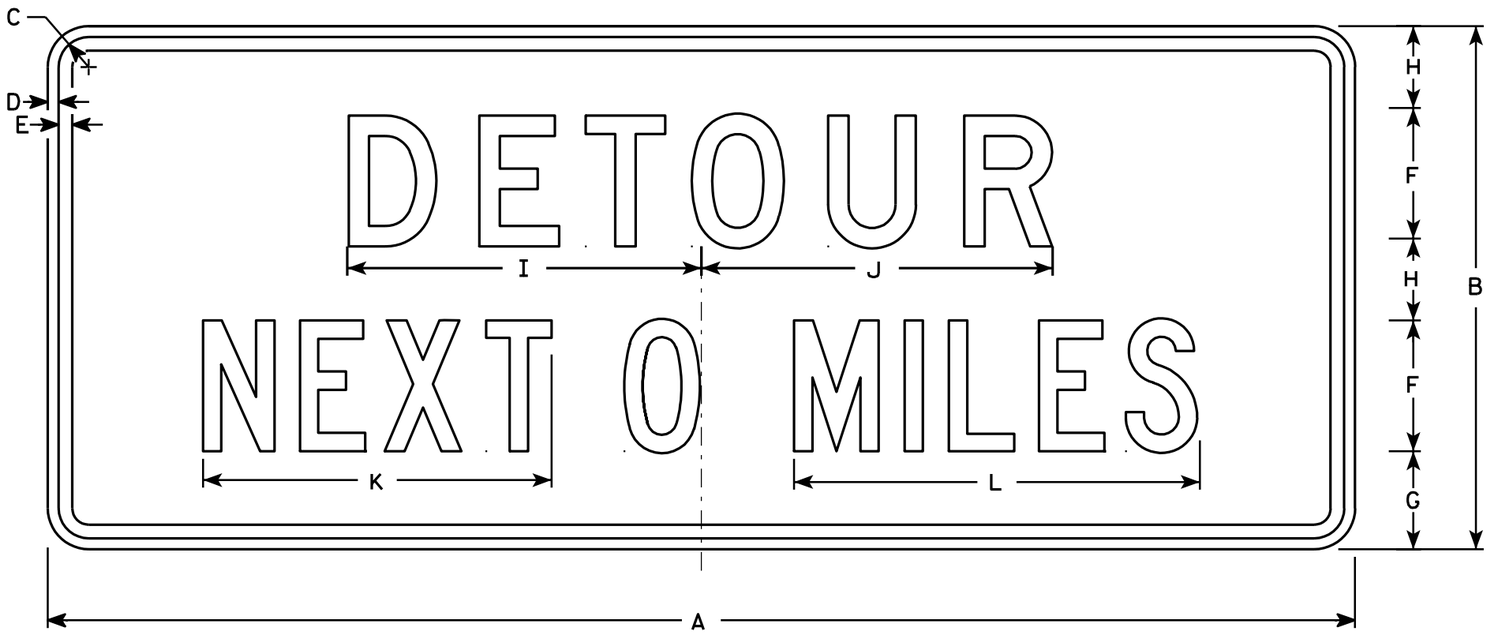
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 172	E



G20-51

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 - Line 1 is D and Line 2 is 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

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 600 mm
3	
4	1500 mm X 600 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	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10	.90
5																												

STANDARD SIGN
G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/02 PLATE NO. G20-51.1

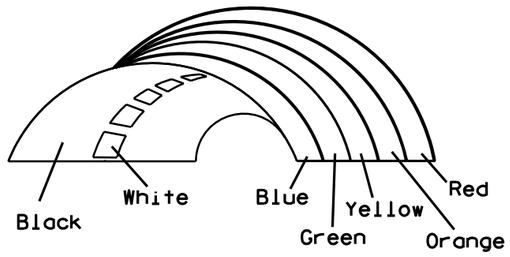
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 173	E



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

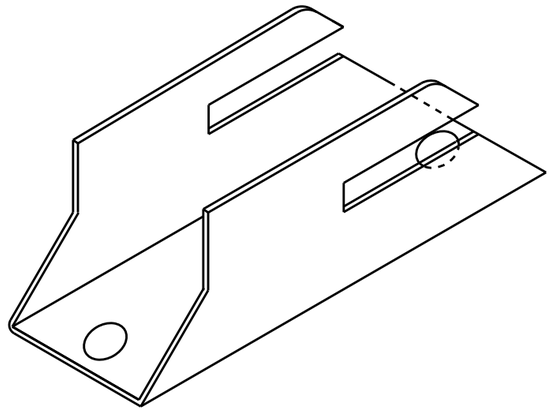
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 174

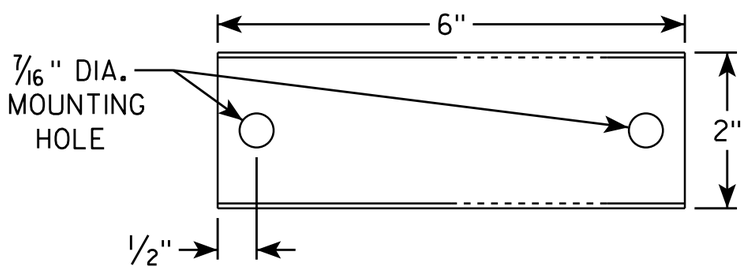
NOTES

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.

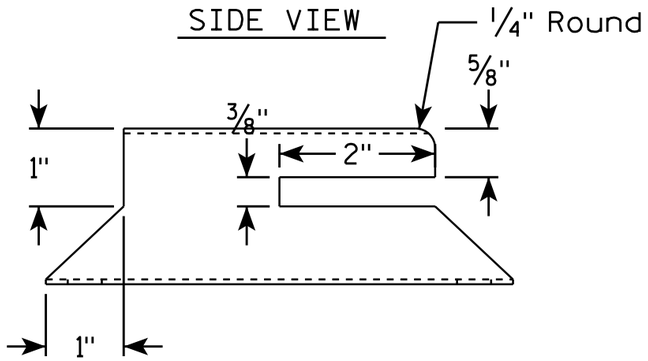
ISOMETRIC VIEW



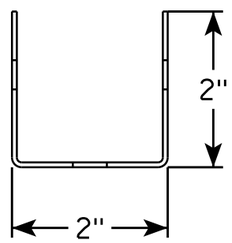
TOP VIEW



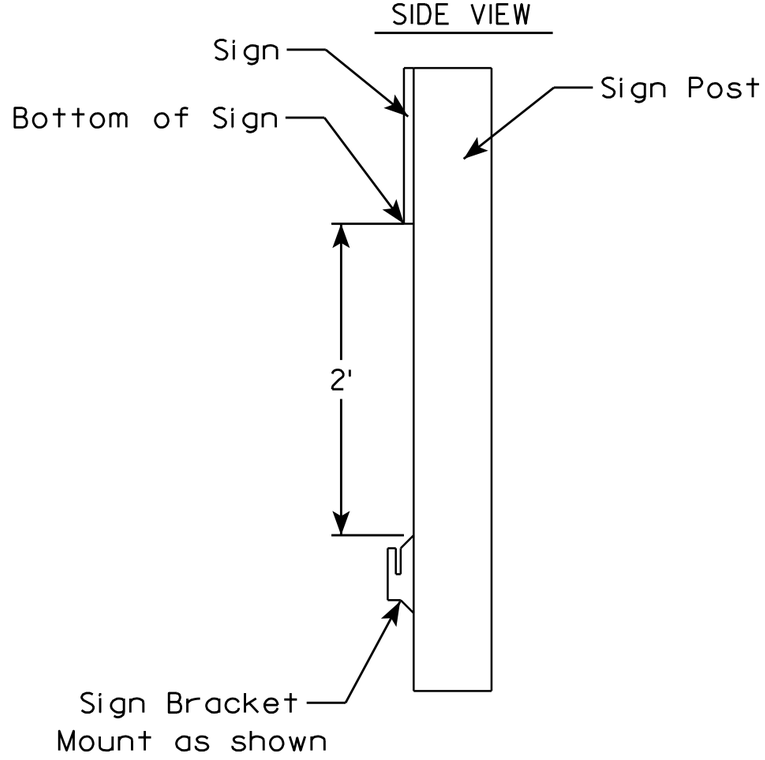
SIDE VIEW



END VIEW



SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

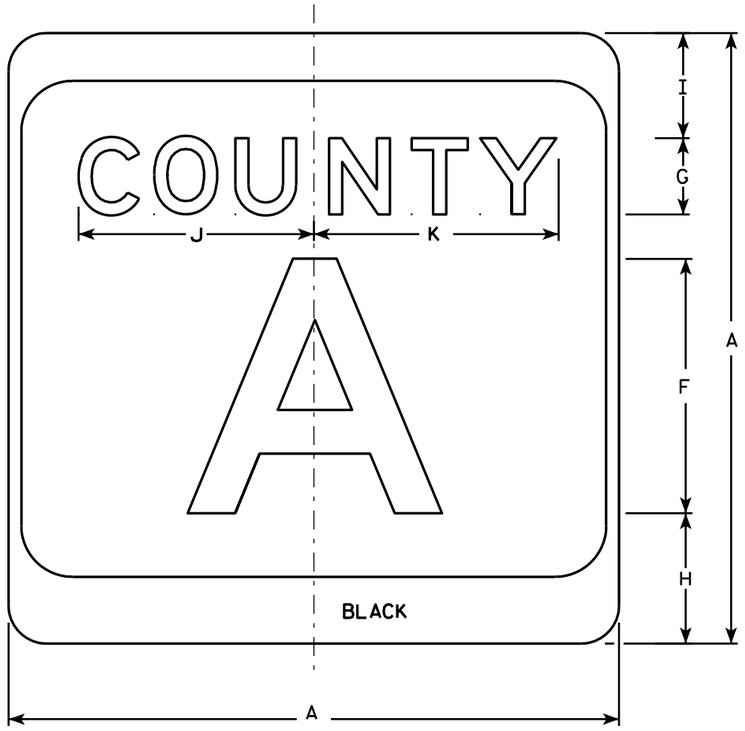
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

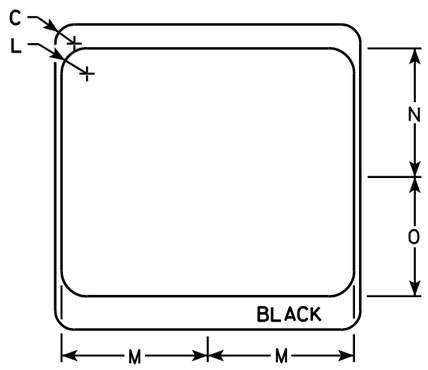
DATE 4/26/16 PLATE I55-56B.2

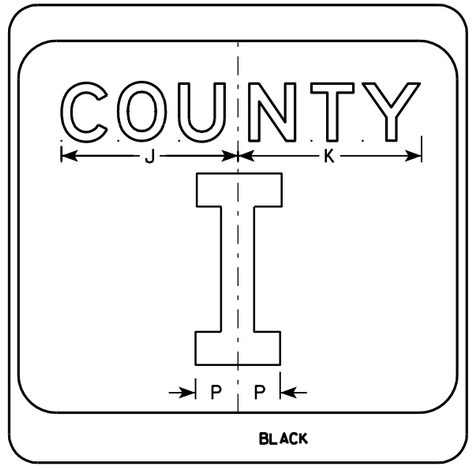
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

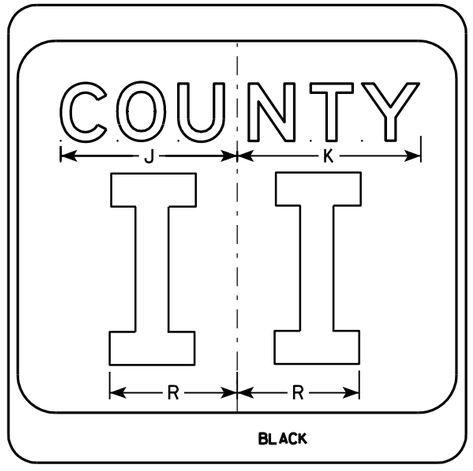
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42



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

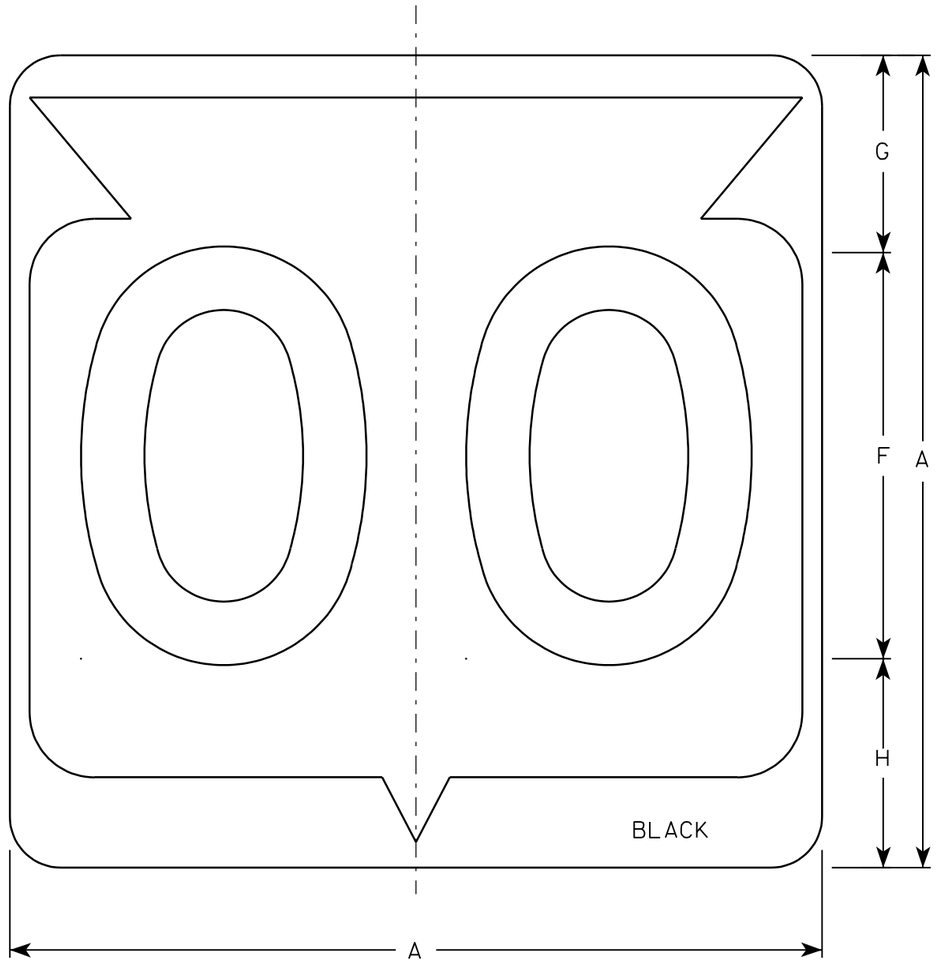
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

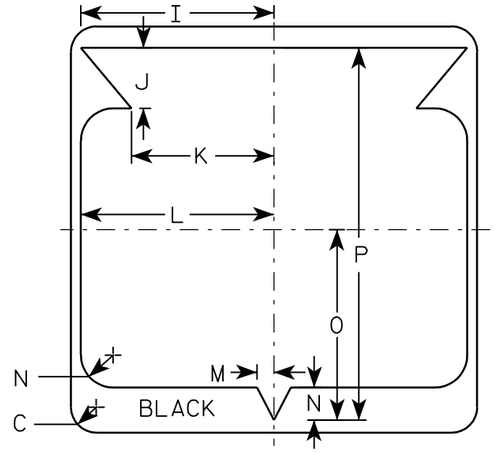
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 176	E



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

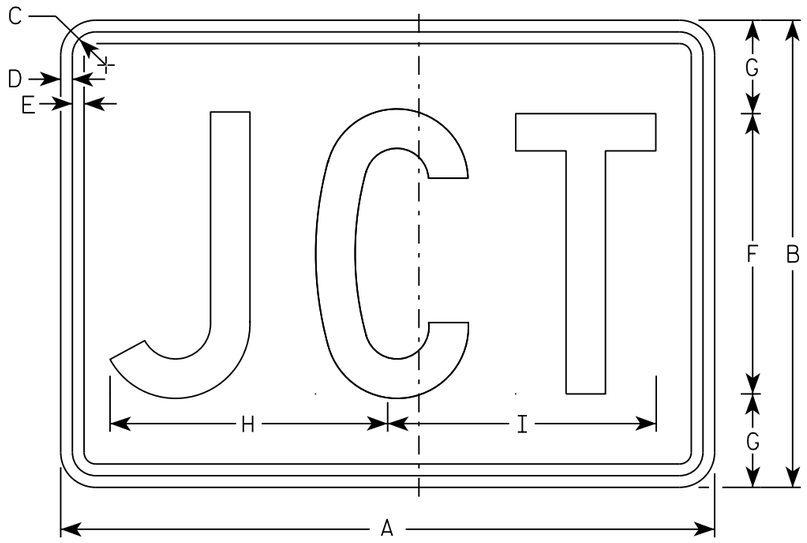
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

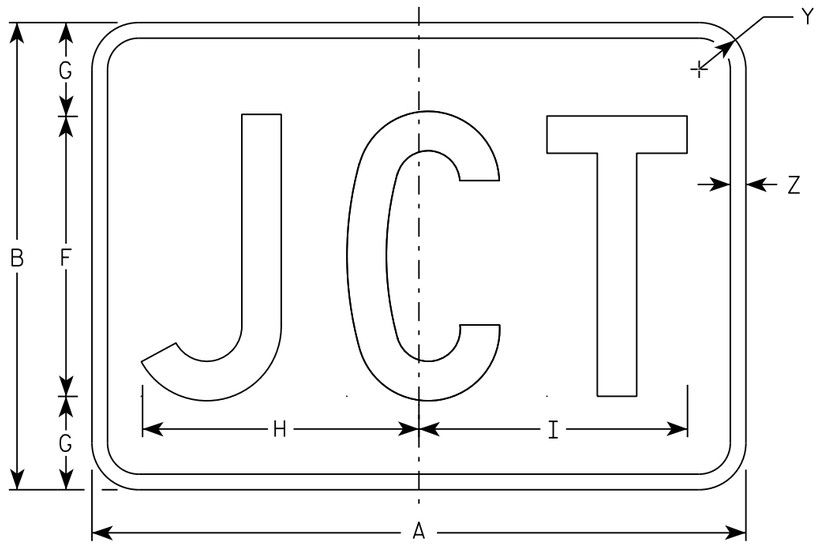
APPROVED Chester J Spang for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 177	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

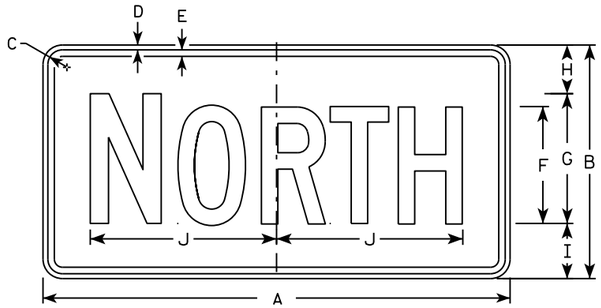
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

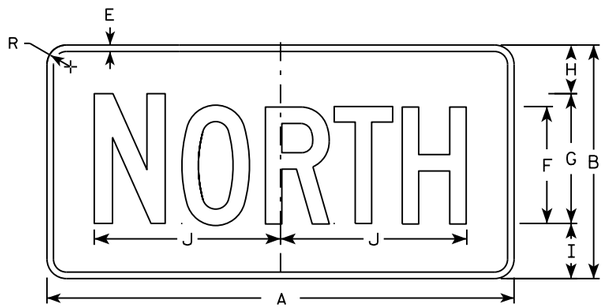
DATE 10/15/15 PLATE 178 12-1.12

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



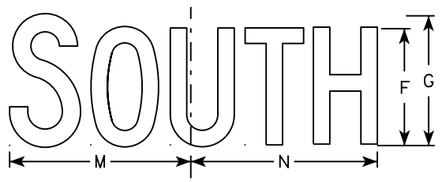
MB3-1
MK3-1
MN3-1



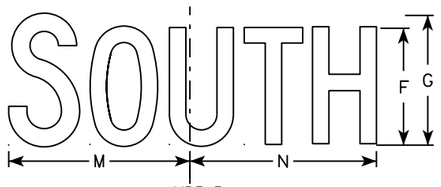
M3-2
MM3-2
MP3-2



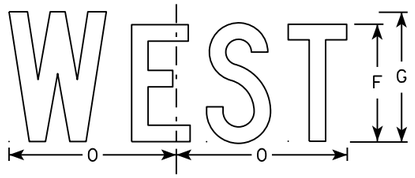
MB3-2
MK3-2
MN3-2



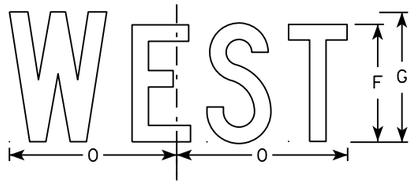
M3-3
MM3-3
MP3-3



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

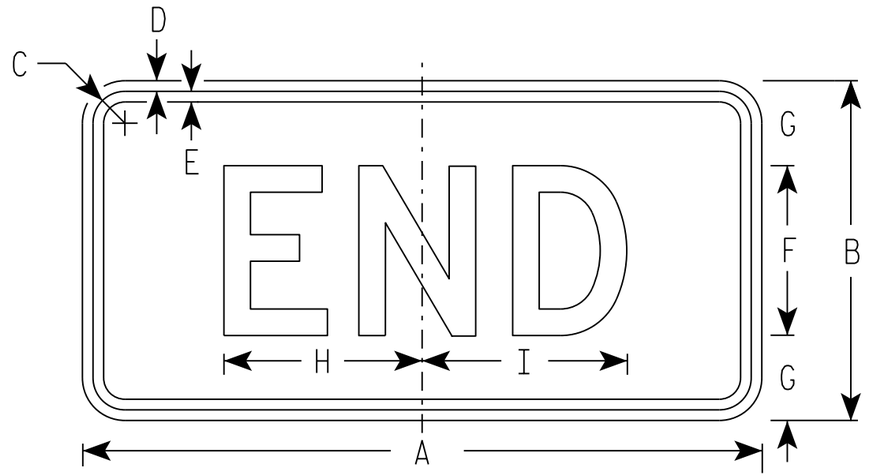
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

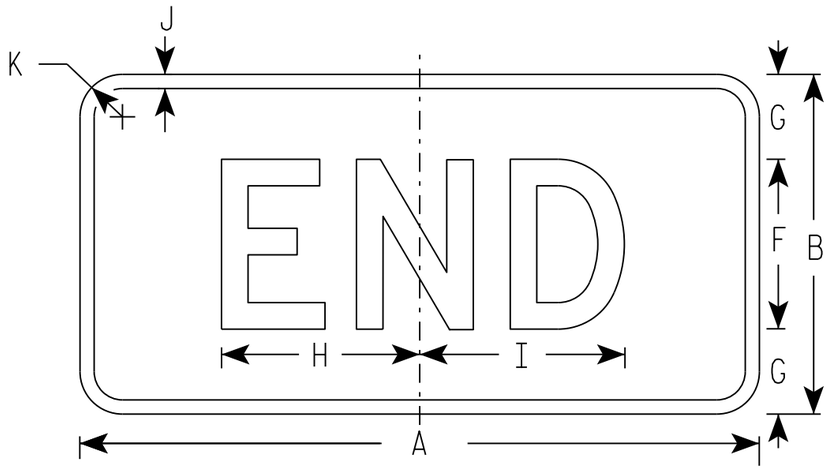
DATE 10/15/15 PLATE NO M3-1.14

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

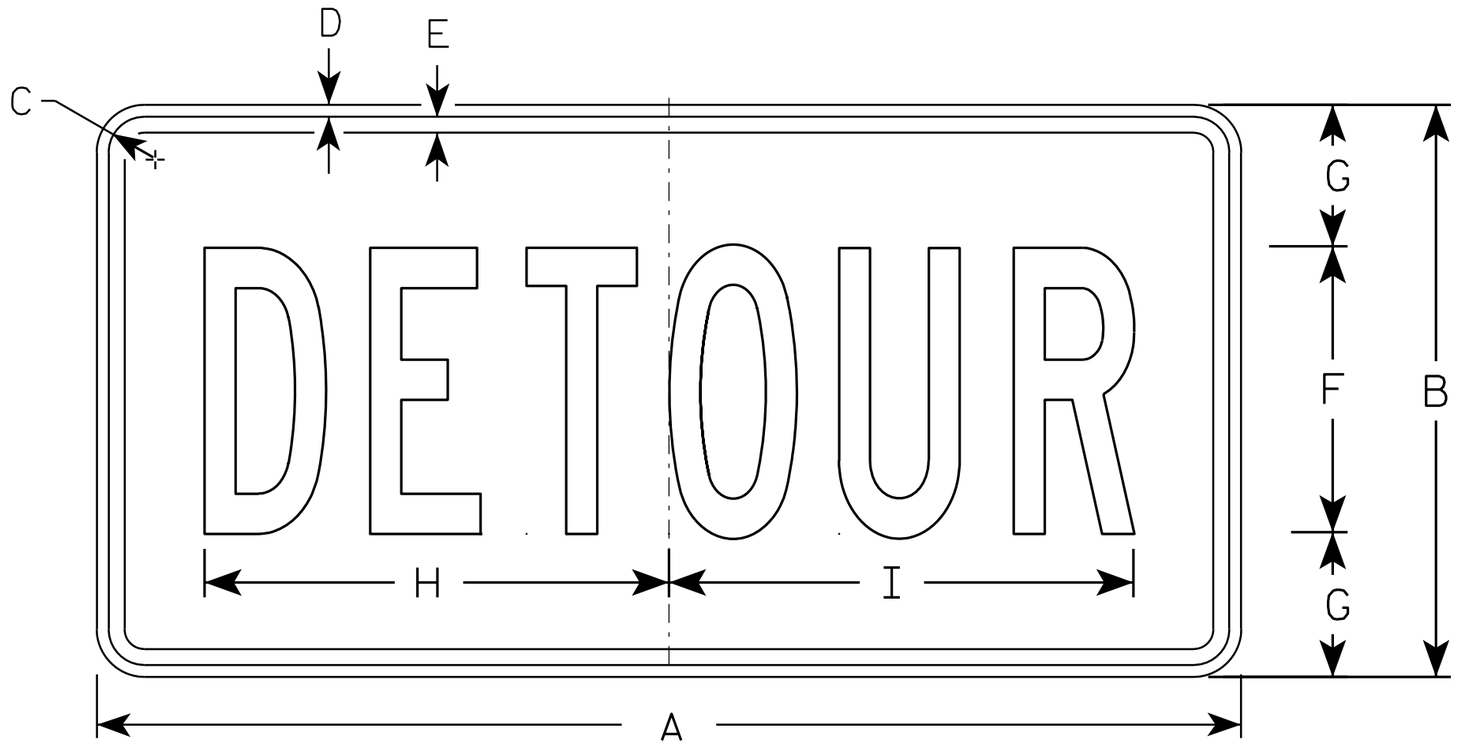
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 180 '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																											

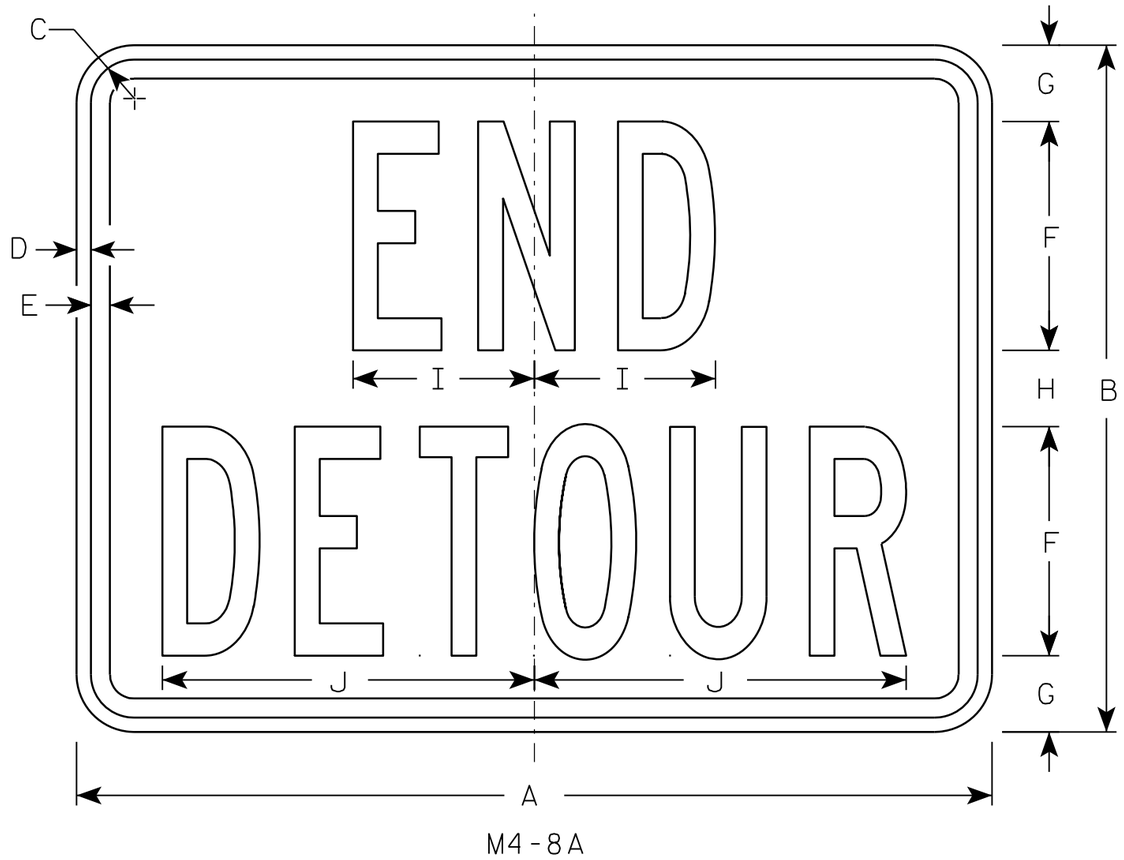
STANDARD SIGN
M4-8

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: 181	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																											

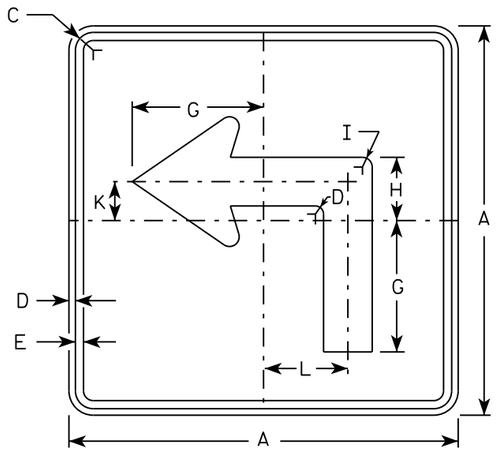
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

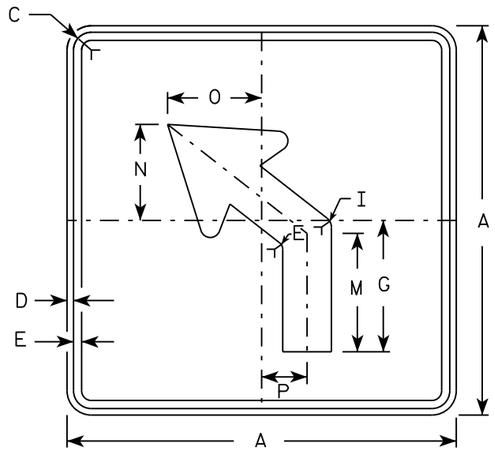
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

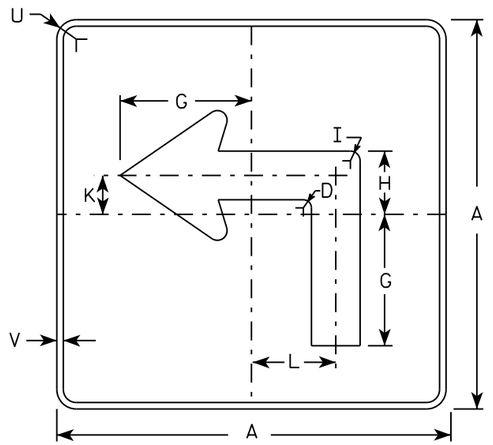
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 182	E



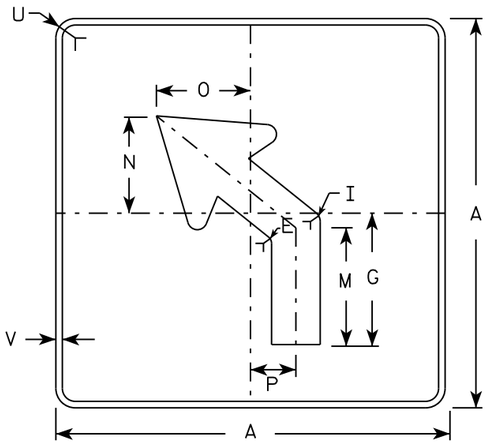
M5-1L
MM5-1L
MO5-1L
MP5-1L



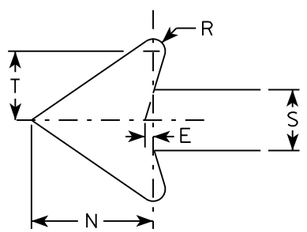
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

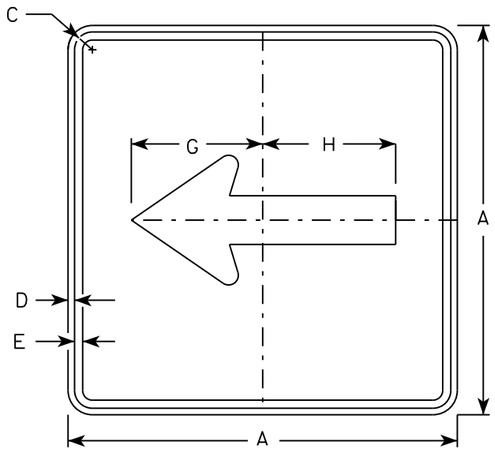
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

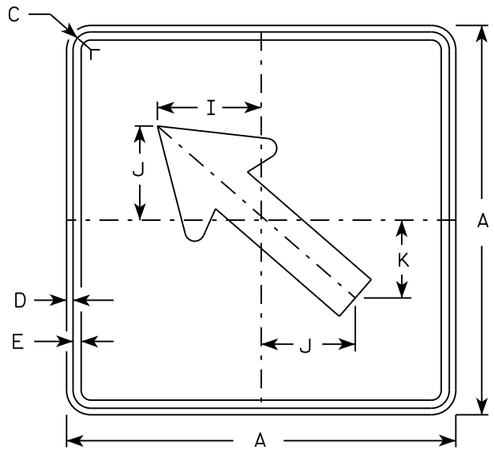
DATE 10/15/15 PLATE NO. M5-1.13

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



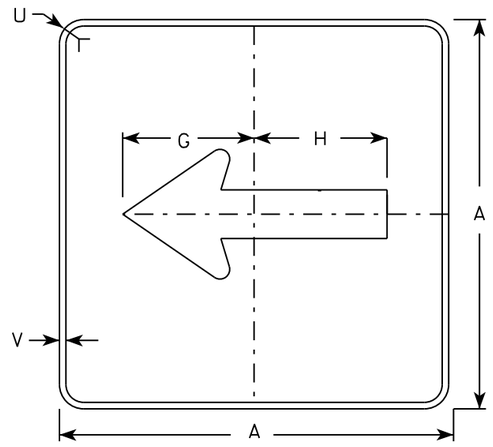
M6-1
MM6-1
MO6-1
MP6-1



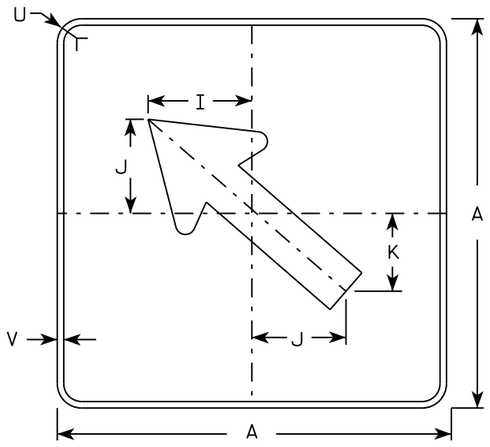
M6-2
MM6-2
MO6-2
MP6-2

NOTES

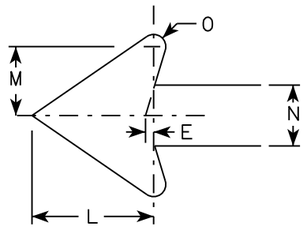
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background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

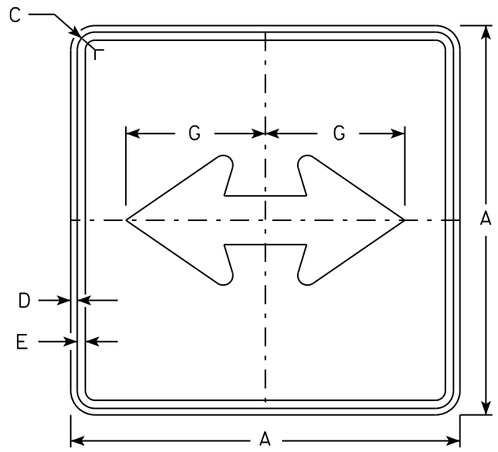
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

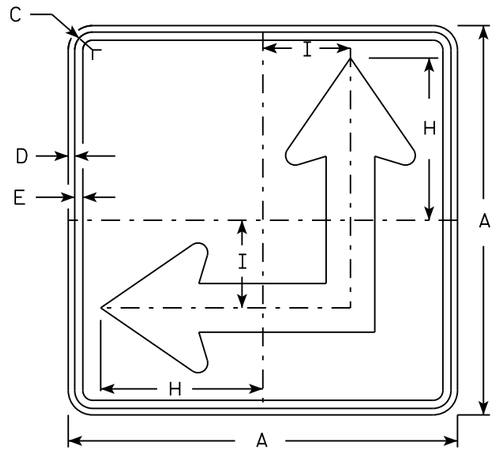
DATE 10/15/15 PLATE 184 M6-1.15

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



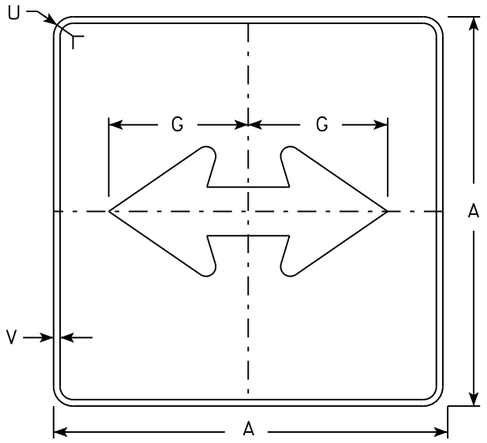
M6-4
MM6-4
MO6-4
MP6-4



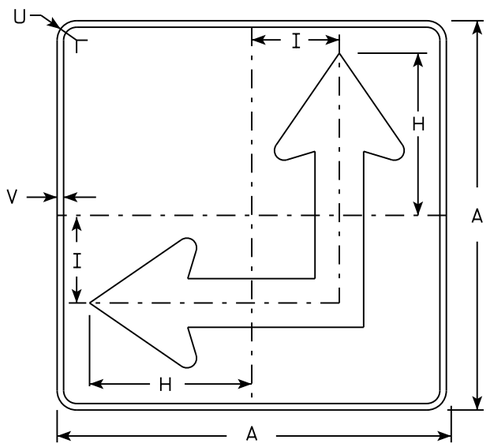
M6-6
MM6-6
MO6-6
MP6-6

NOTES

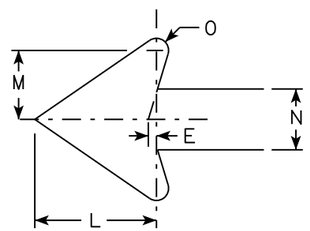
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background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

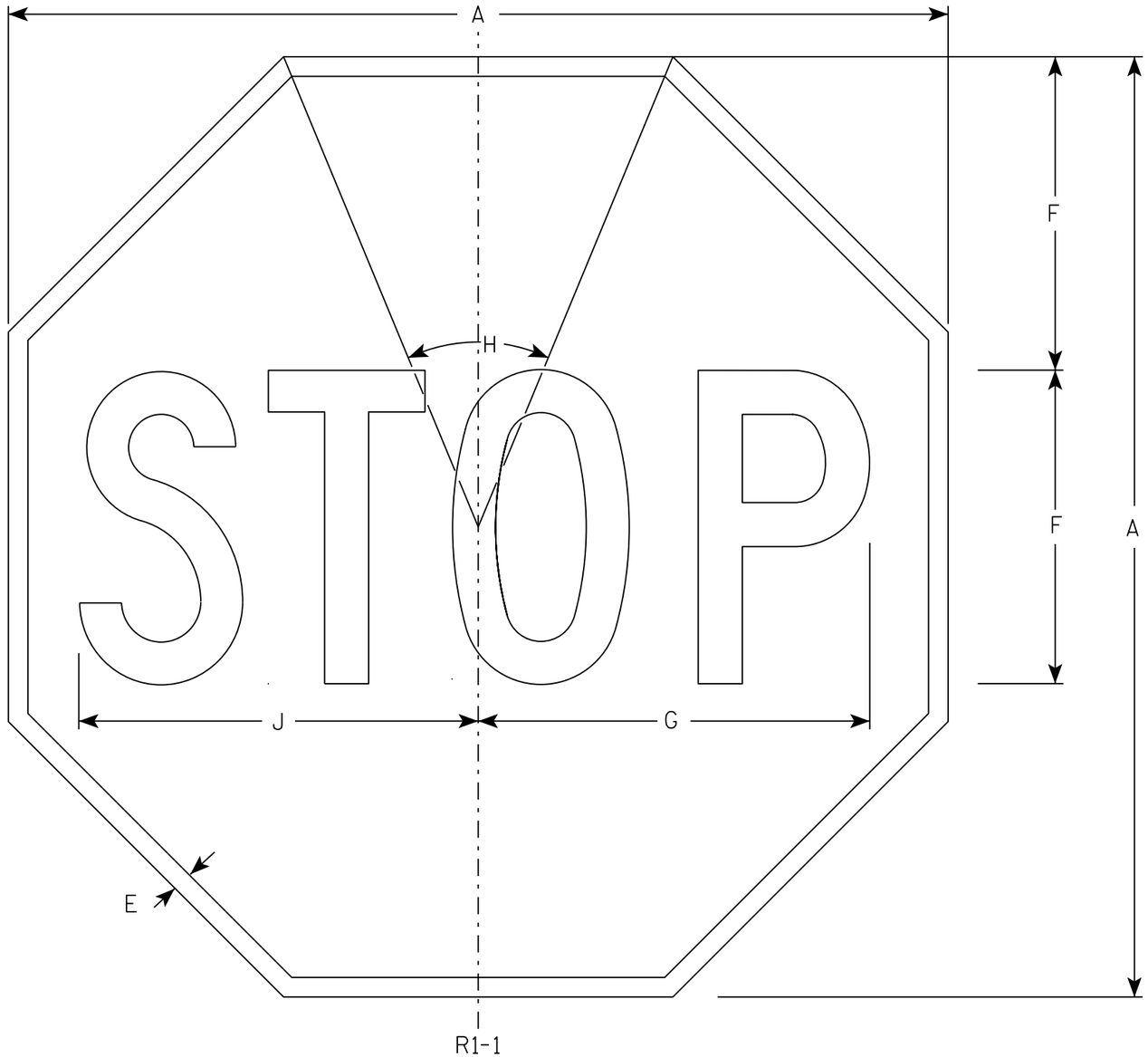
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 185 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



R1-1

NOTES

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

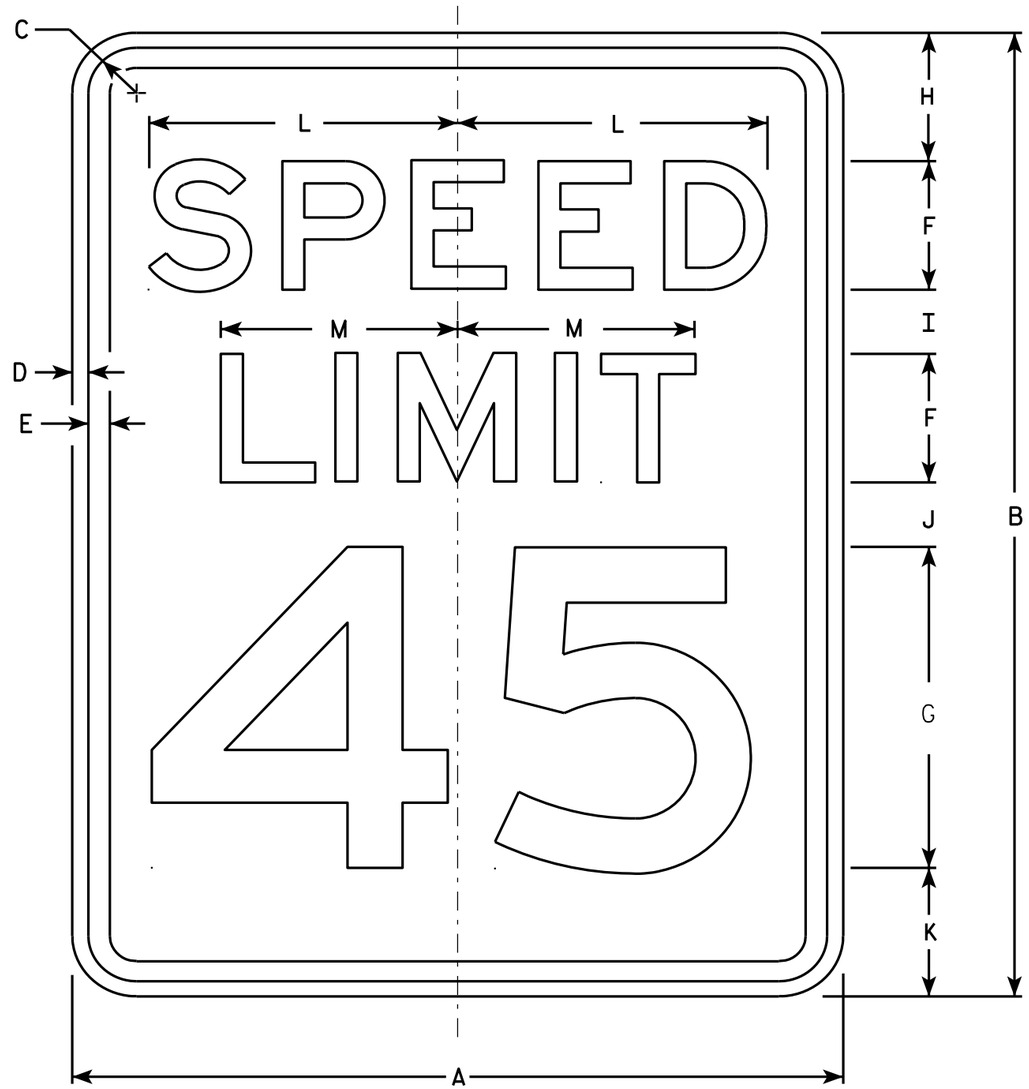
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE 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

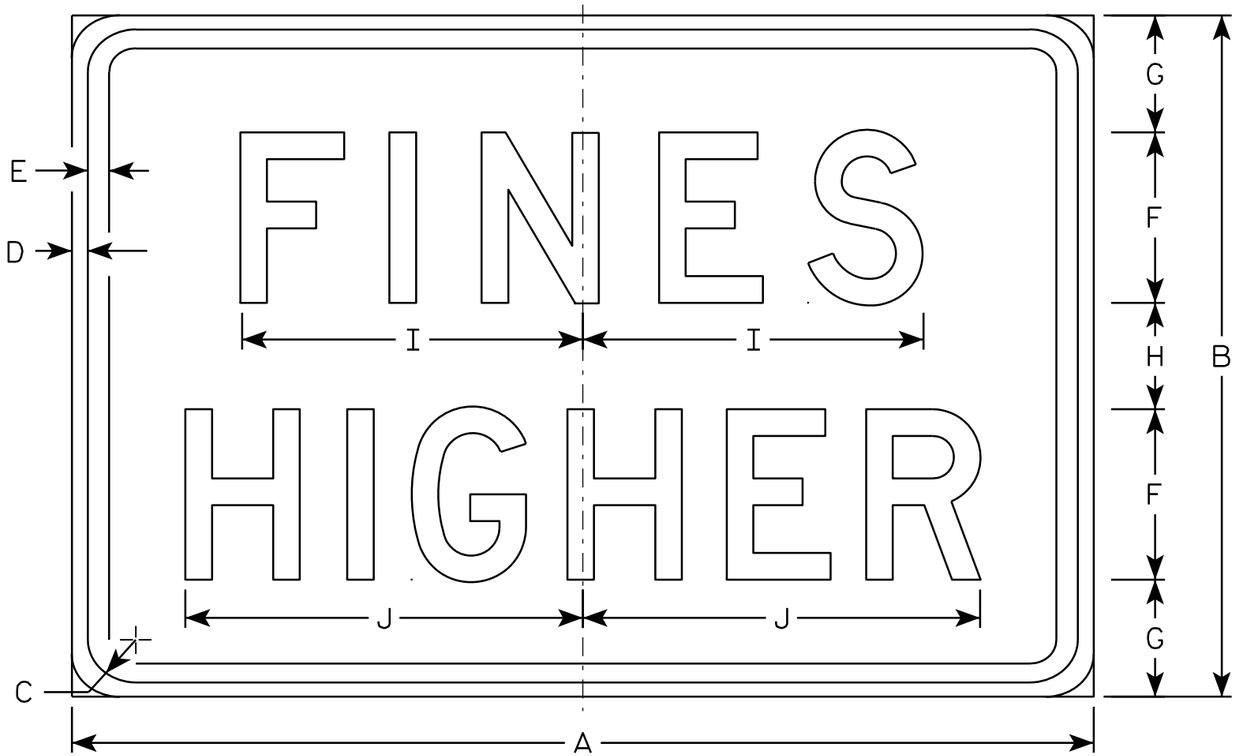
STANDARD SIGN
R2-1

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: 187 | E



R2-6P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

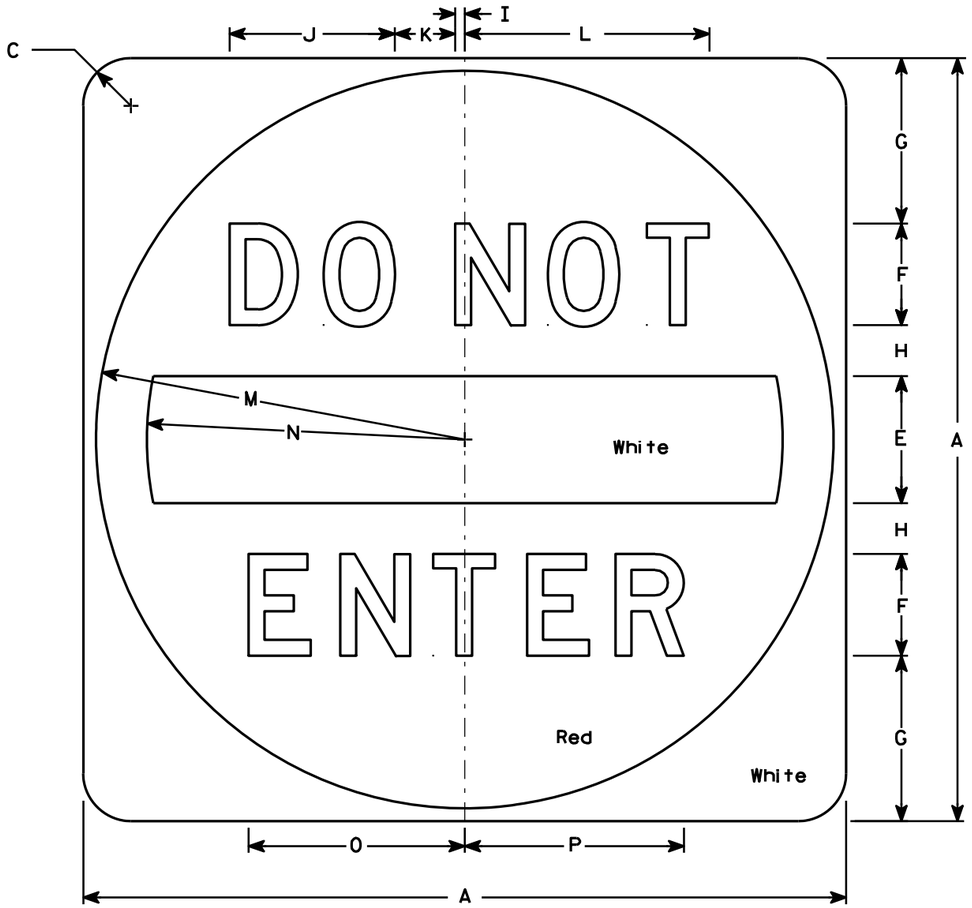
STANDARD SIGN
R2-6P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 188 | E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors 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 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

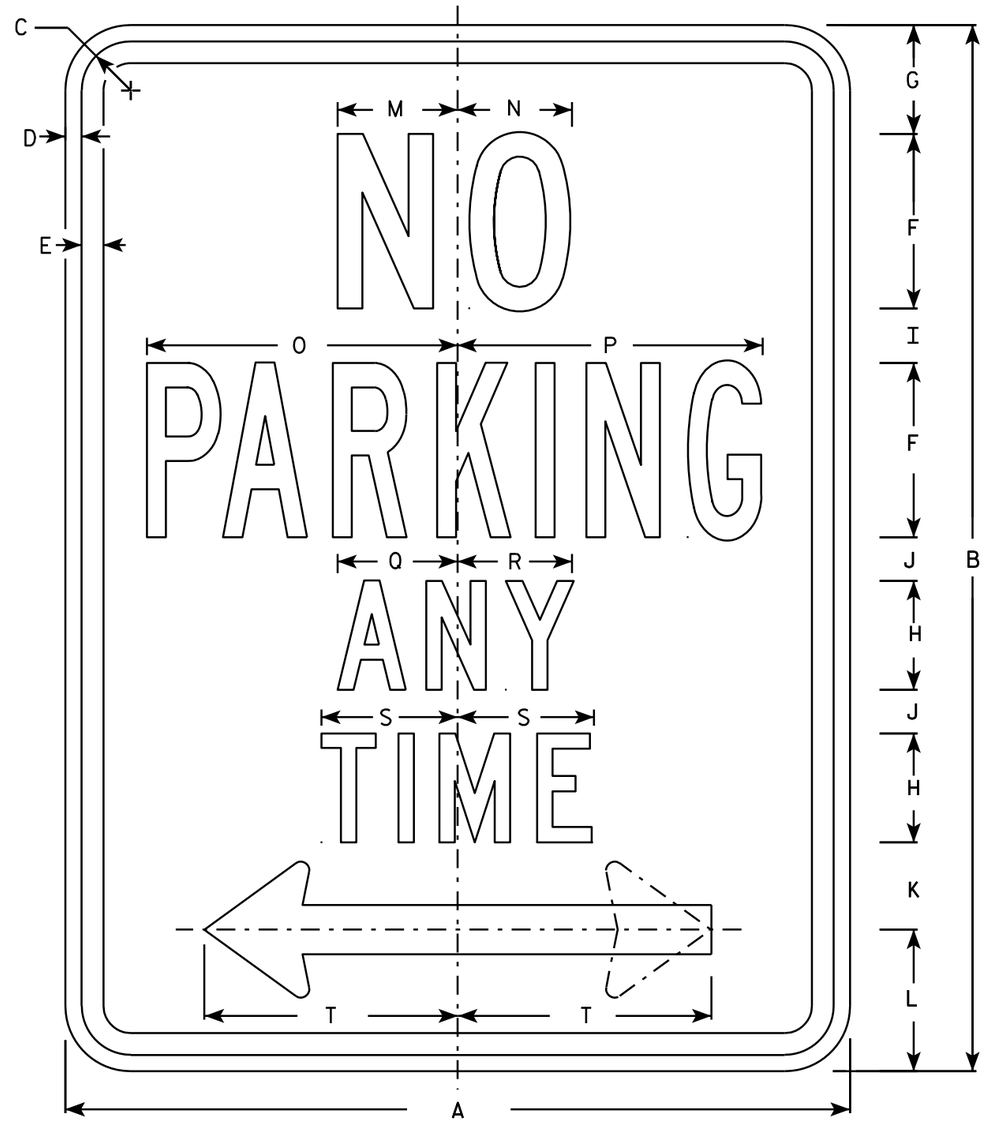
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

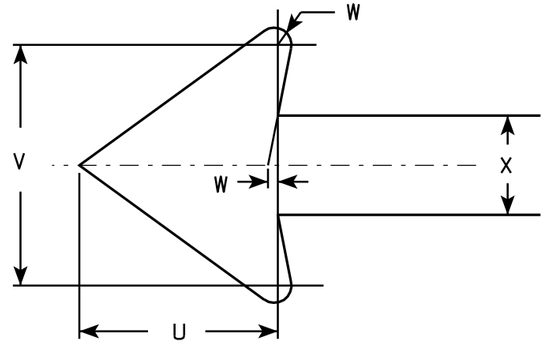
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 189 | E



R7-1

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



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 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	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

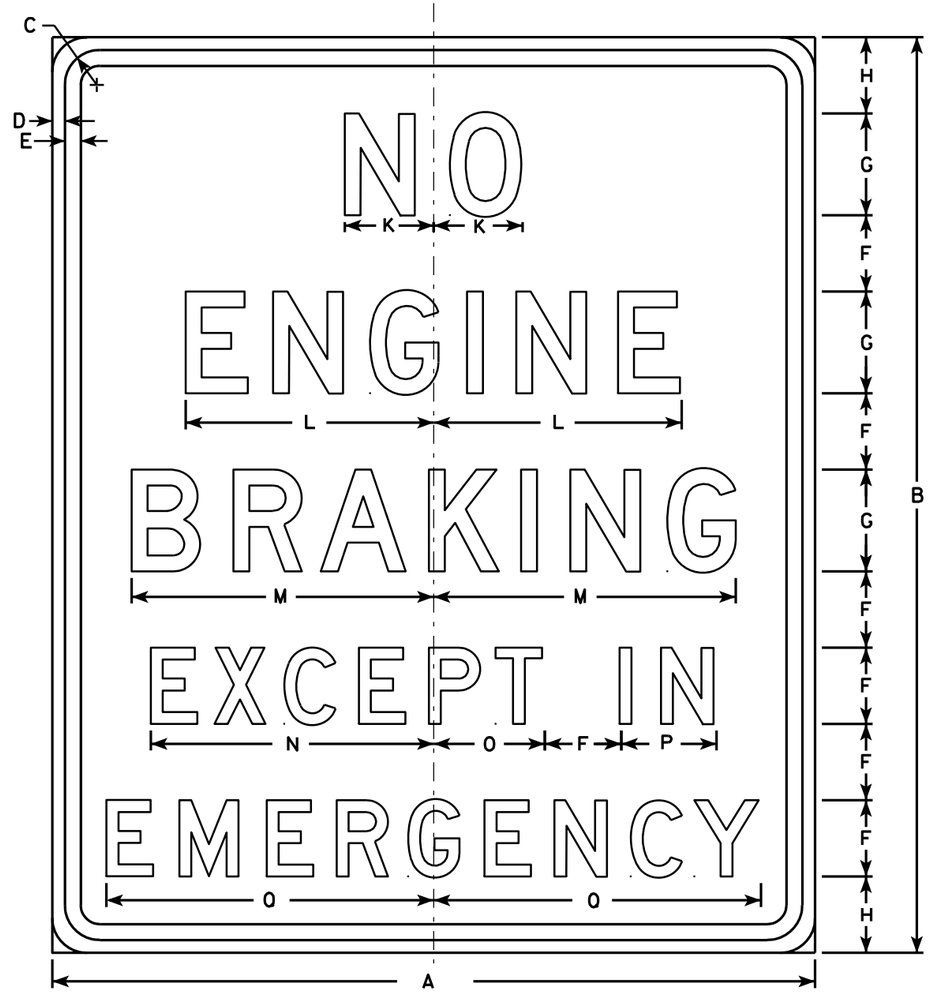
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 190 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

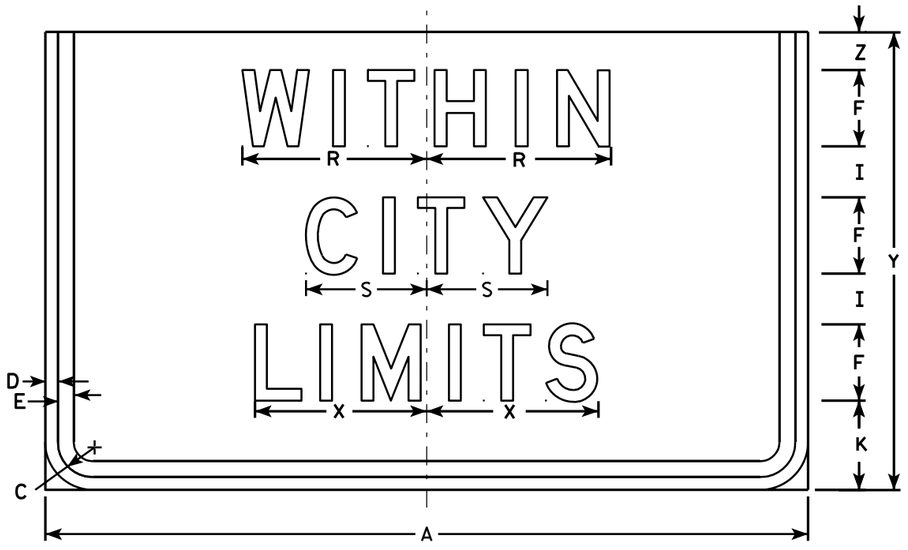
WISDOT/CADDS SHEET 42



R10-64

NOTES

1. Signs are 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 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 2 of R10-64F is Series C for "TOWNSHIP" Only



R10-64F

Area sq. ft.
3.75
7.0

VILLAGE
V
V

TOWNSHIP
U
U

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	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2S	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2M	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
3	42	48	1 3/8	1/2	5/8	4	5	4 1/2	3		4	12 1/4	14 7/8	14 1/8	5 1/4	4 3/4	16 1/4	9	6		11	11 1/4	1 1/2	8 1/2	24	2	14.0
4																											
5																											

STANDARD SIGN
R10-64 & R10-64F

WISCONSIN DEPT OF TRANSPORTATION

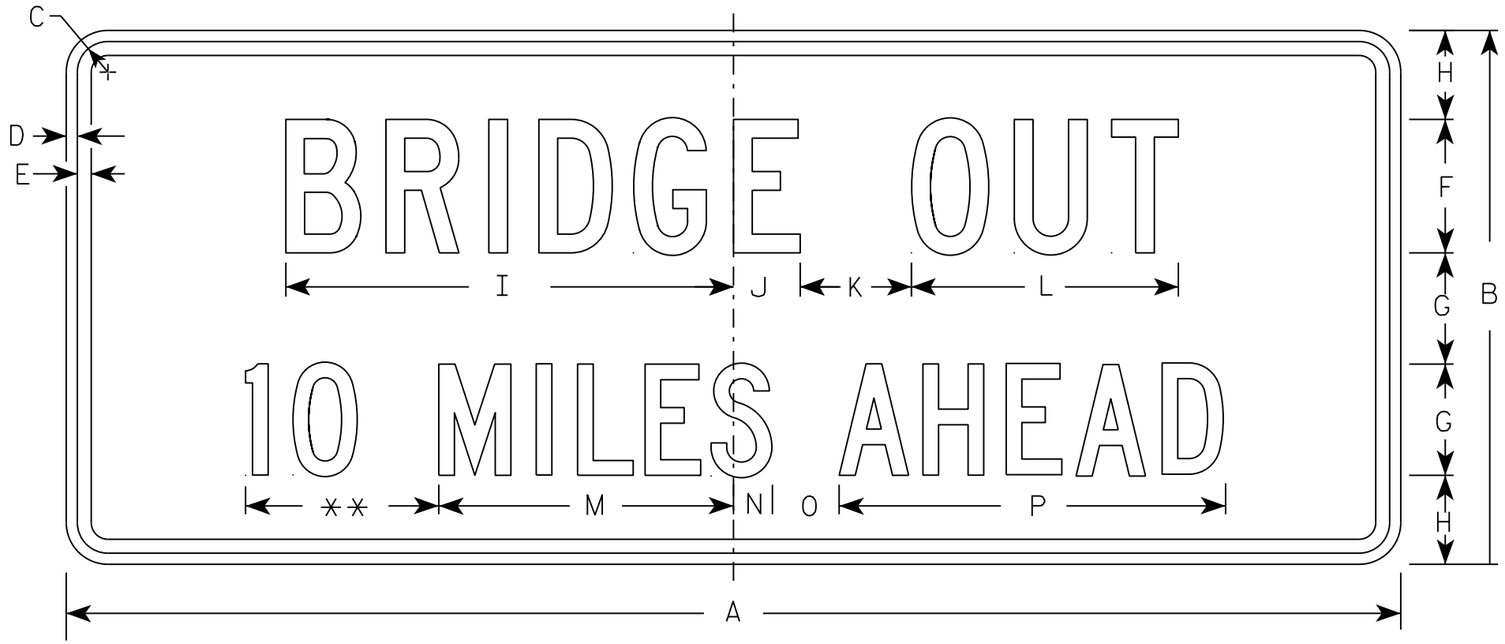
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-64.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 191	E

NOTES

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



R11-3C

** 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	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 3/4											3.75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
3																											
4																											
5																											

STANDARD SIGN
R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/28/16 PLATE R11-3C.3

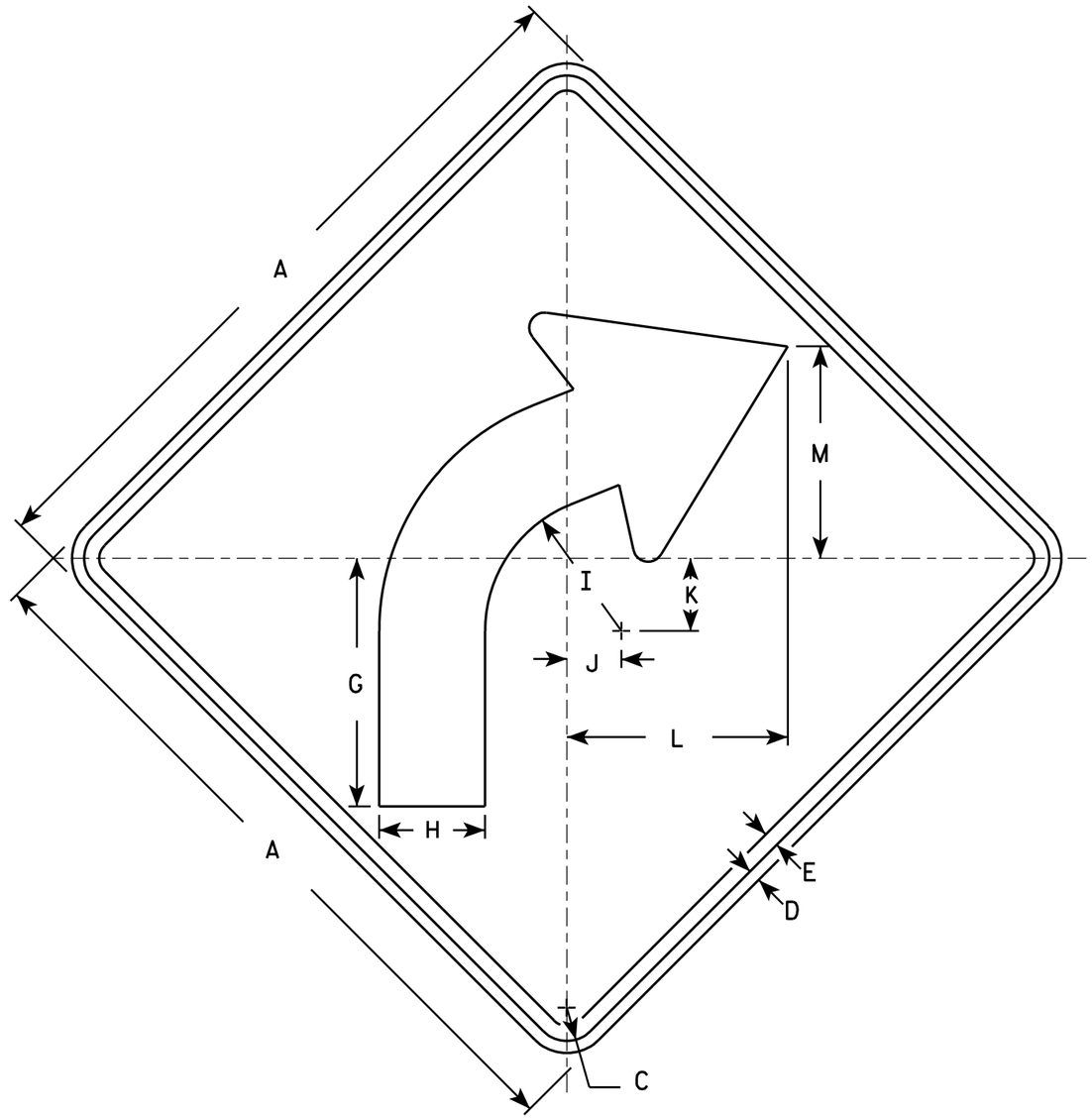
PROJECT NO:

SHEET NO: E

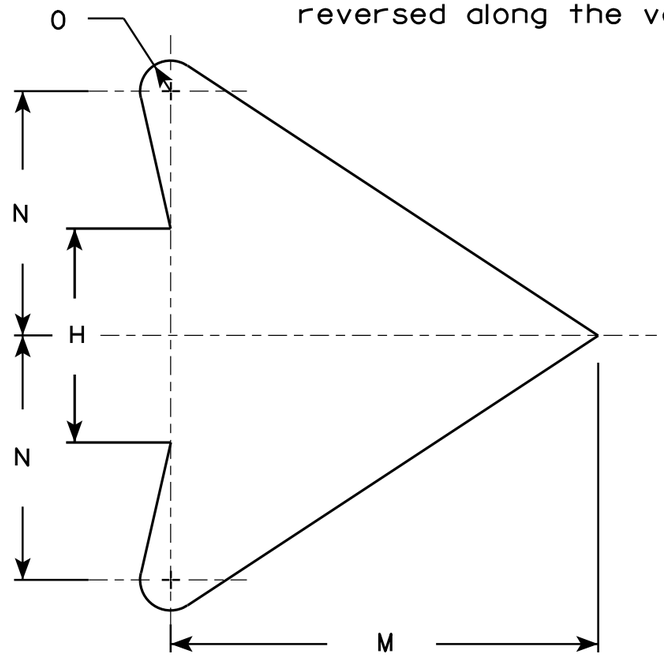
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113C.DGN PLOT DATE : 28-JUL-2016 16:56 PLOT BY : ** platuser **

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

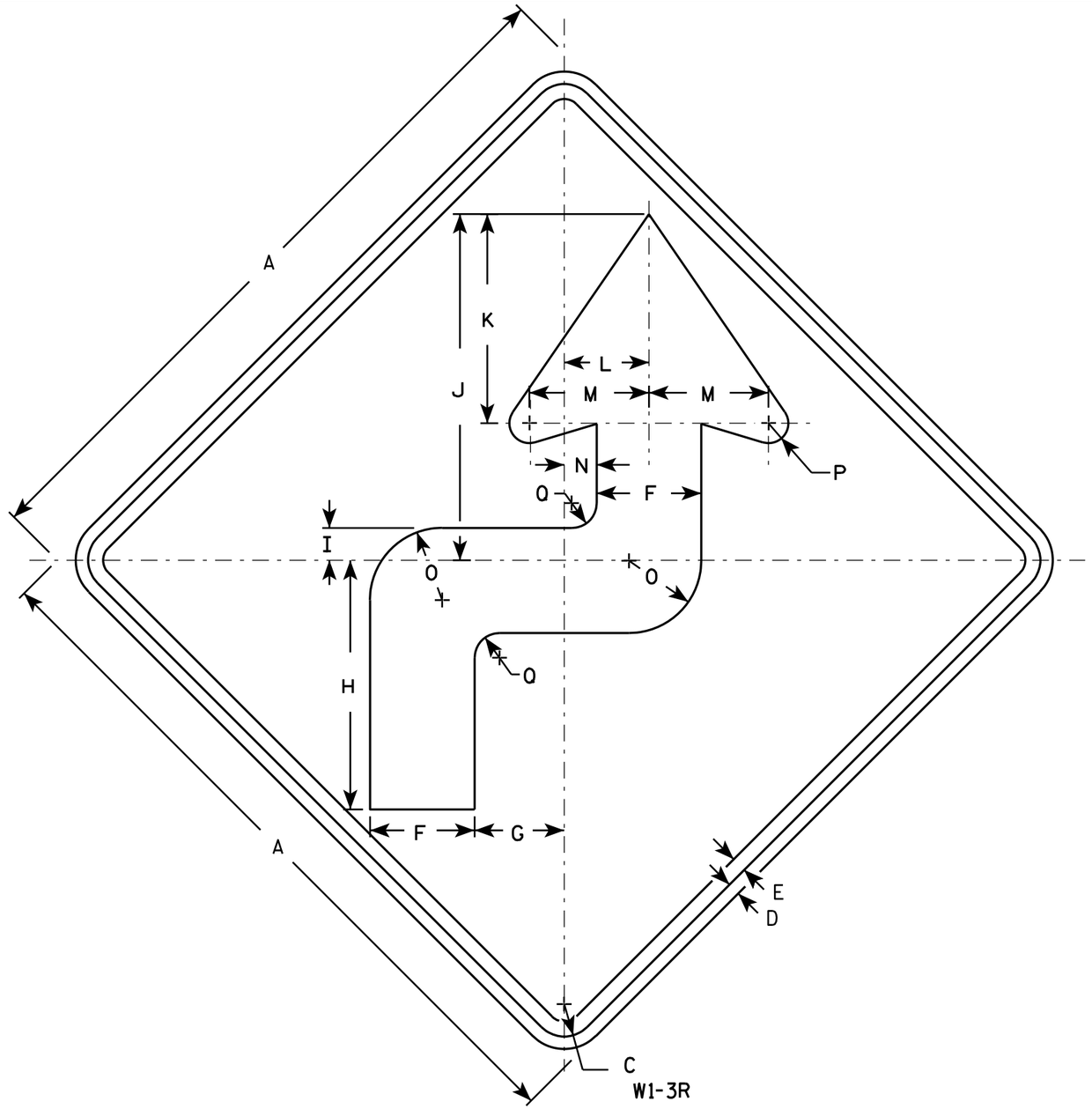
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 193	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-3L is the same as W1-3R except the arrow is reversed along the vertical centerline.

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	3 1/2	3	8 3/8	1 1/8	11 5/8	7	2 3/4	4	1 1/8	2 1/2	5/8	7/8										4.0
2S	36		1 5/8	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
2M	36		1 5/8	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
3	36		1 5/8	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
4	36		1 5/8	5/8	3/4	5 1/4	6	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
5	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0

STANDARD SIGN
W1-3

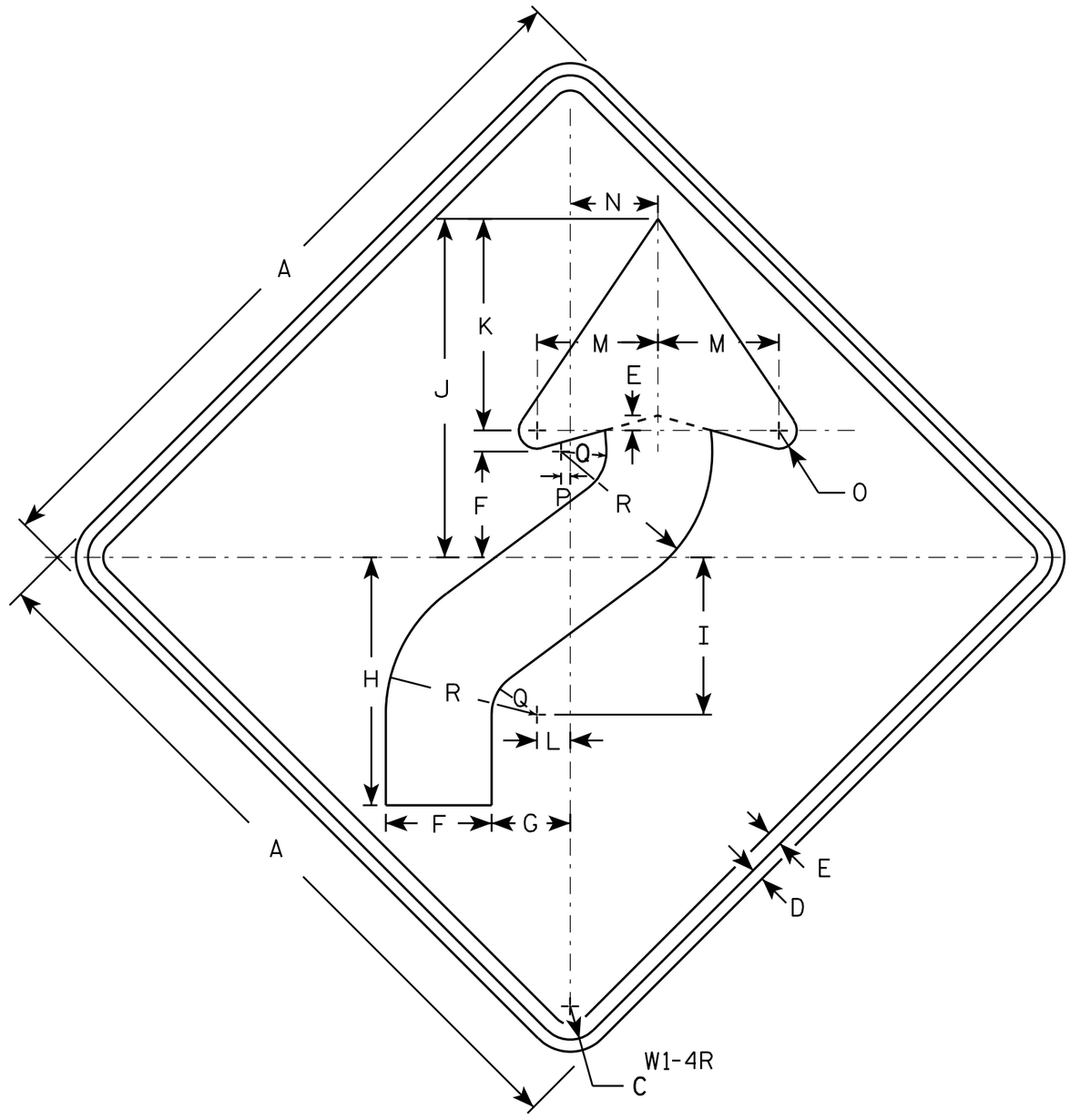
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 194 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W13.DGN PLOT DATE : 17-MAY-2012 13:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.698561:1.000000 WISDOT/CADDS SHEET 42



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. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

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	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

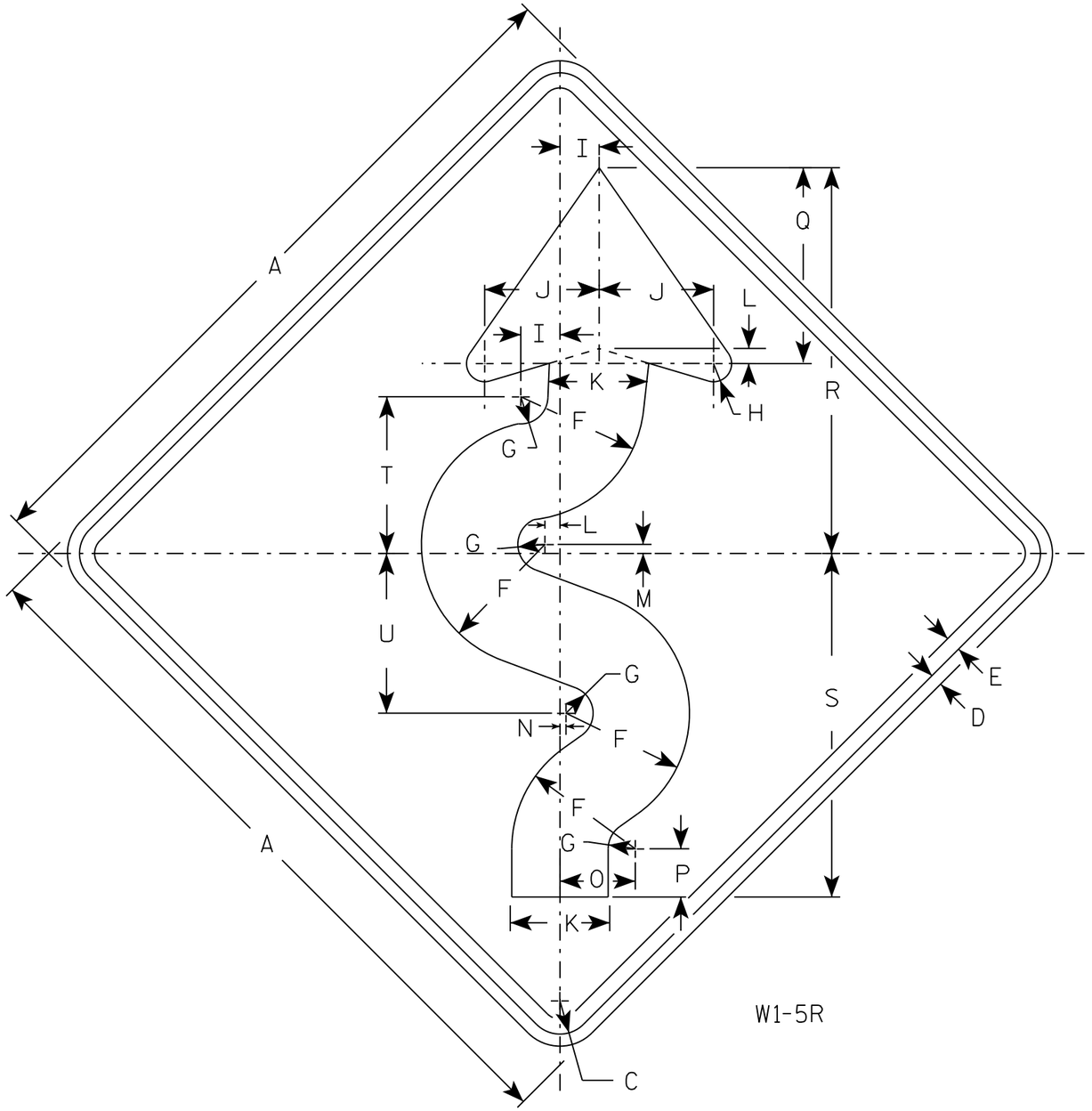
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 195 | E



W1-5R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W1-5L is the same as W1-5R except the arrow is reversed along the vertical centerline.
4. If used with W13-1 of 30 MPH or less, use 36" sign for Size 2S.

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 1/8	7/8	5/8	1 1/4	3 3/4	3 1/4	1/2	1/4	1/8	2 1/2	1 5/8	6 1/2	12 3/4	11 3/8	5 1/4	5 1/4						4.0
2S	30		1 3/8	1/2	5/8	5 1/8	1 1/8	3/4	1 5/8	4 3/4	4 1/8	5/8	3/8	1/4	3 1/8	2	8 1/8	16	14 1/4	6 1/2	6 5/8						6.25
2M	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
3	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
4	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
5	48		2 1/4	3/4	1	8 1/4	1 3/4	1 1/4	2 1/2	7 1/2	6 1/2	1	1/2	3/8	5	3 1/4	13	25 1/2	22 3/4	10 3/8	10 1/2						16.0

STANDARD SIGN

W1-5

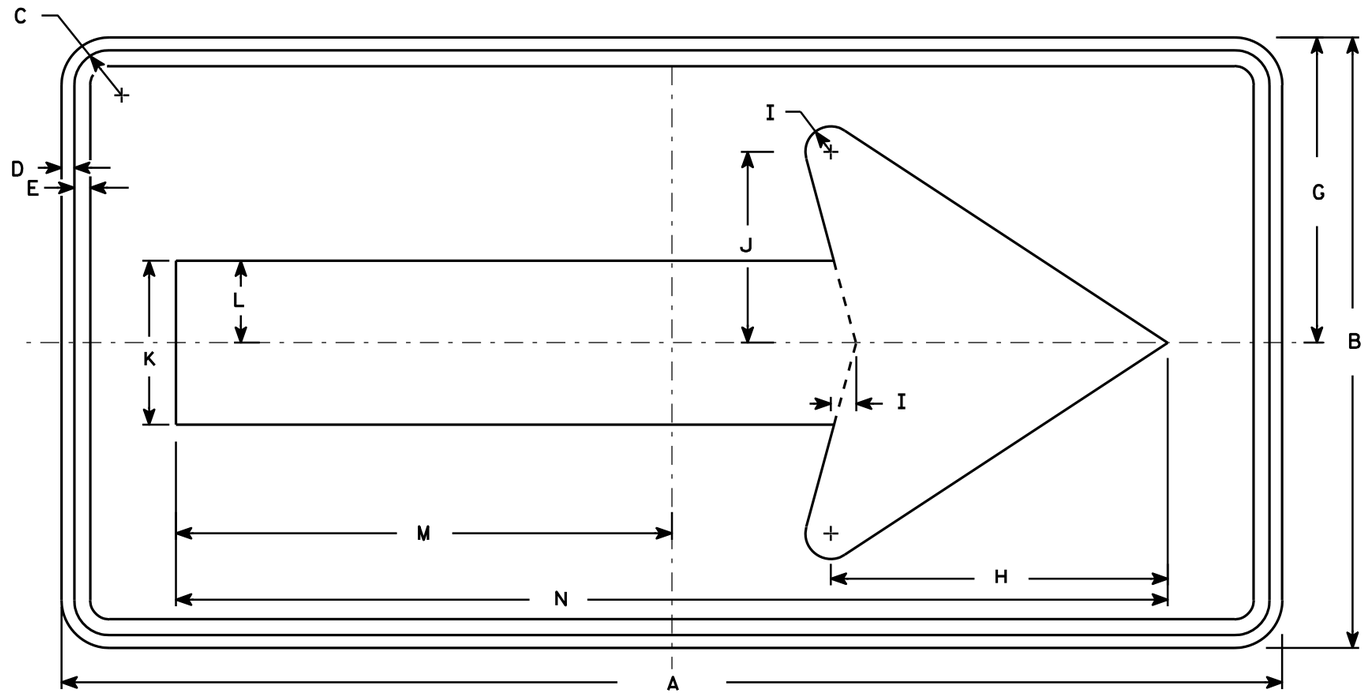
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/1/16 PLATE NO. W1-5.9

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W15.DGN PLOT DATE : 01-AUG-2016 09:34 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.594294:1.000000



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

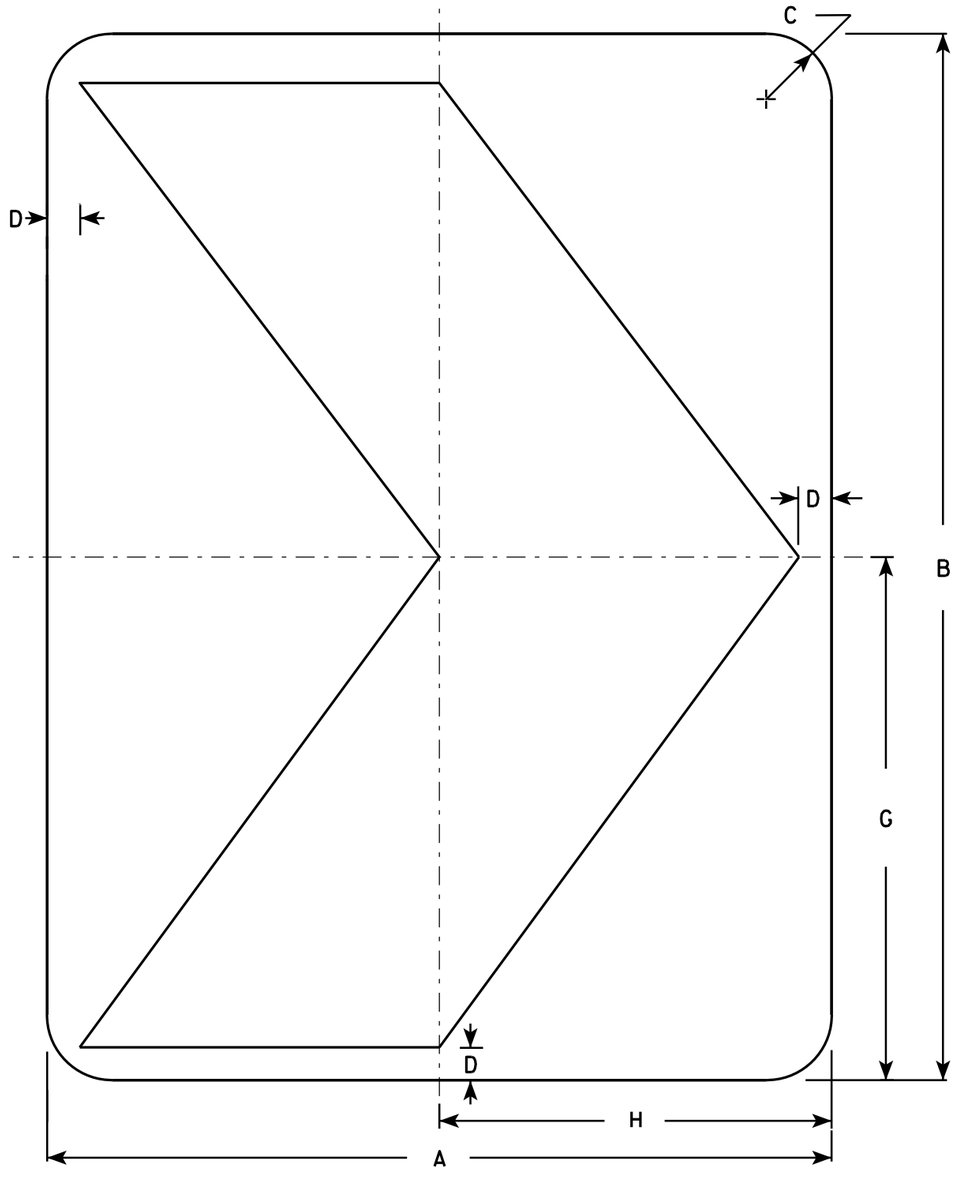
STANDARD SIGN
W1-6

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: 197



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

W1-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 ½	½			9	6																			1.5
2S	18	24	1 ½	¾			12	9																			3.0
2M	18	24	1 ½	¾			12	9																			3.0
3	24	30	1 ½	1			15	12																			5.0
4	30	36	1 ⅞	1 ¼			18	15																			7.5
5	36	48	2 ¼	1 ½			24	18																			12.0

STANDARD SIGN
W1-8

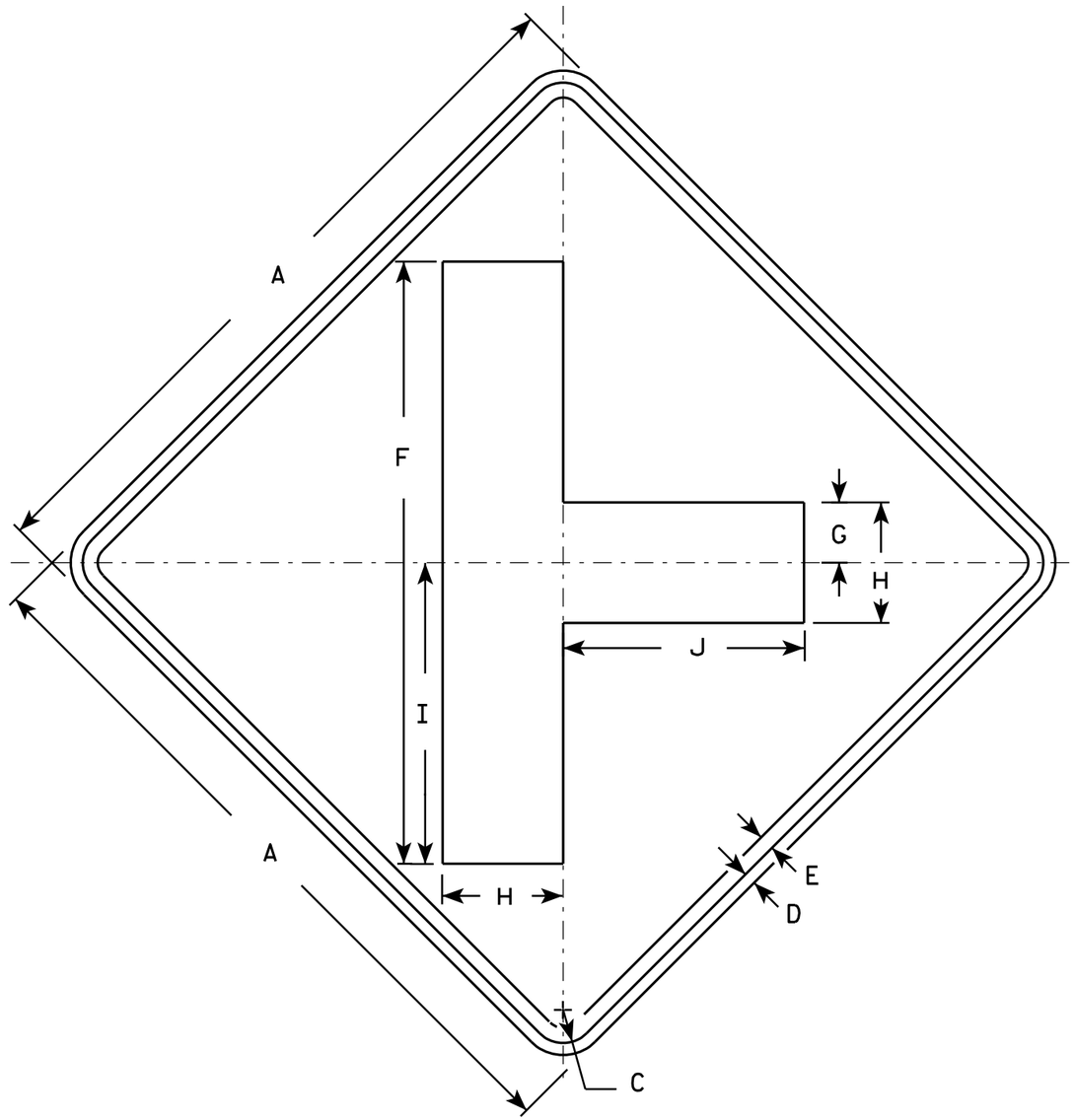
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

SHEET NO: 198 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																											

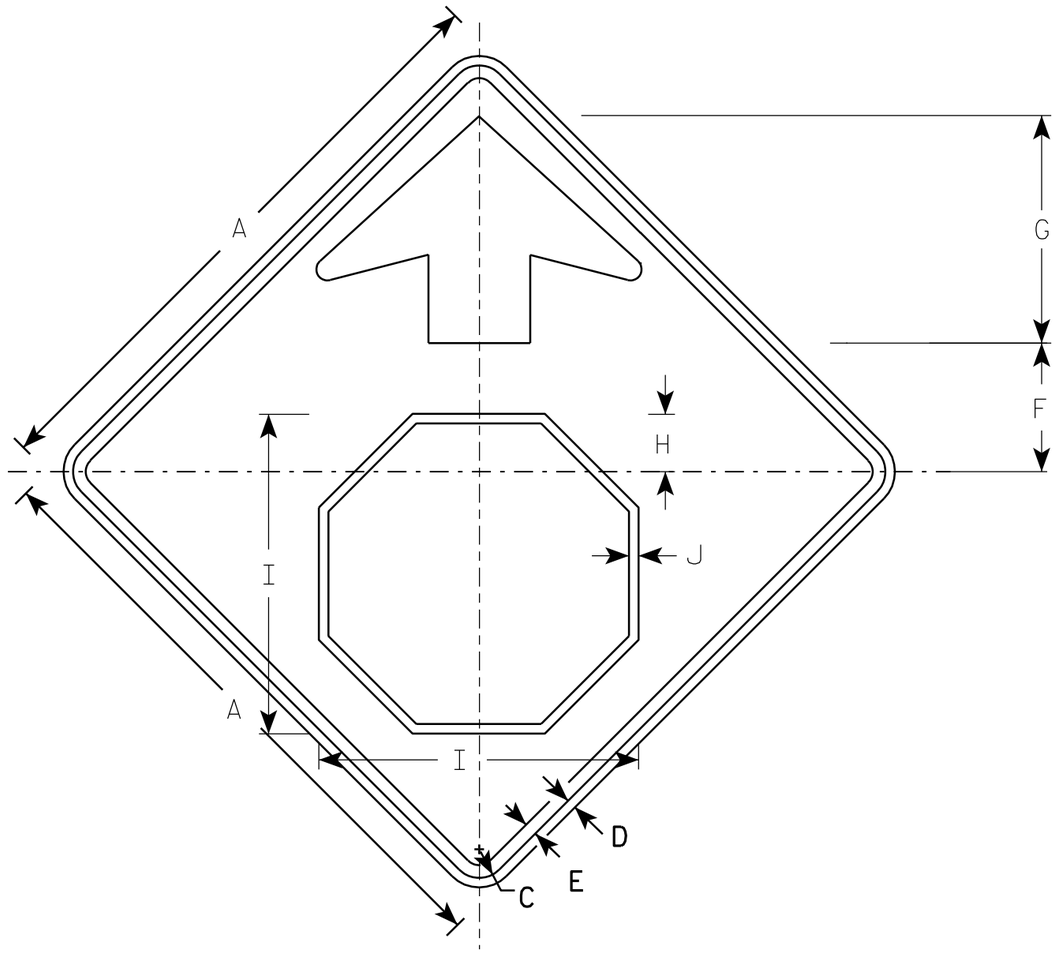
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-2.6

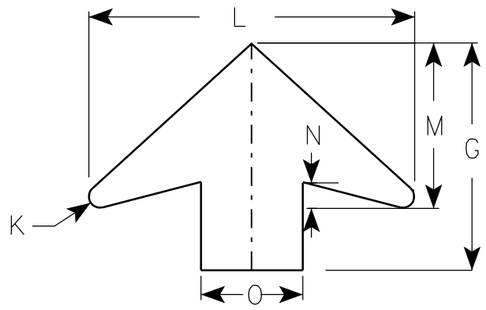
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 199 | E



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

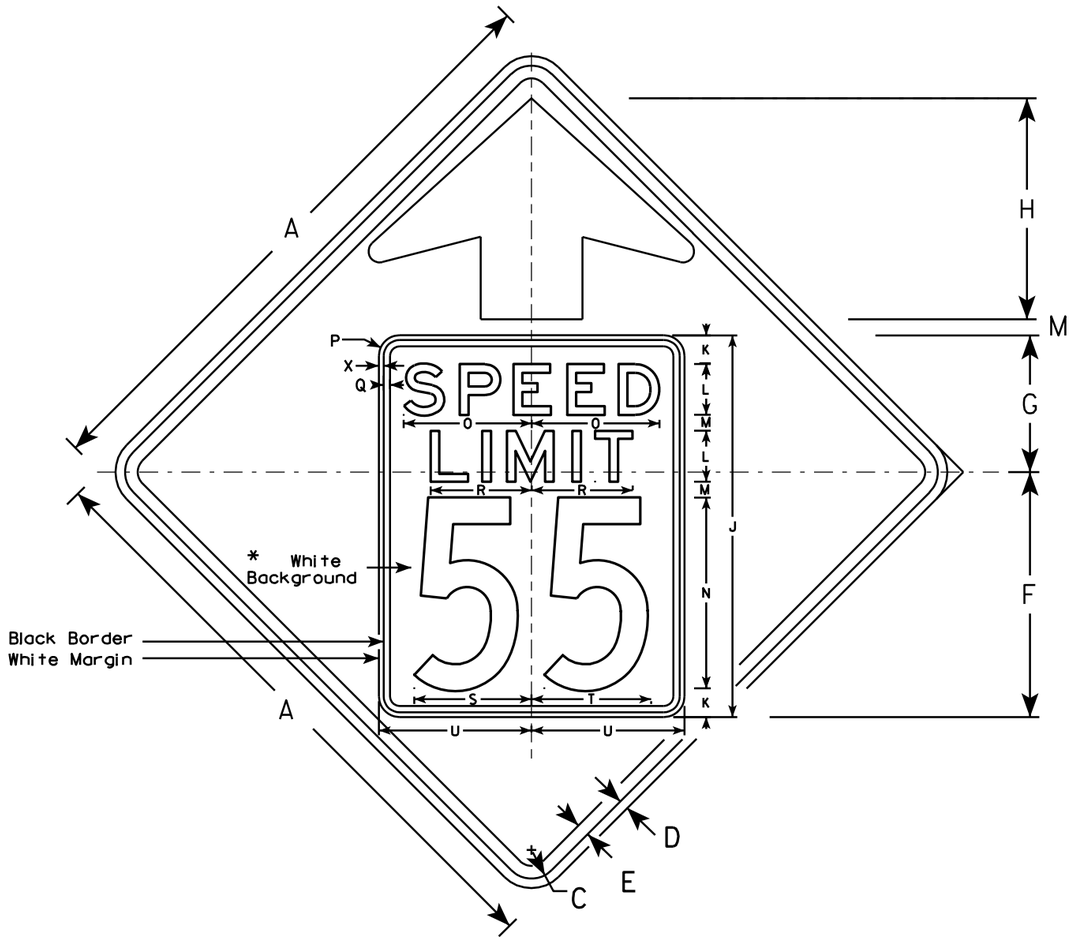
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 200 E

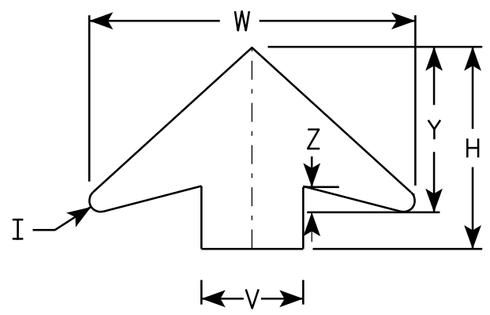


W3-5

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

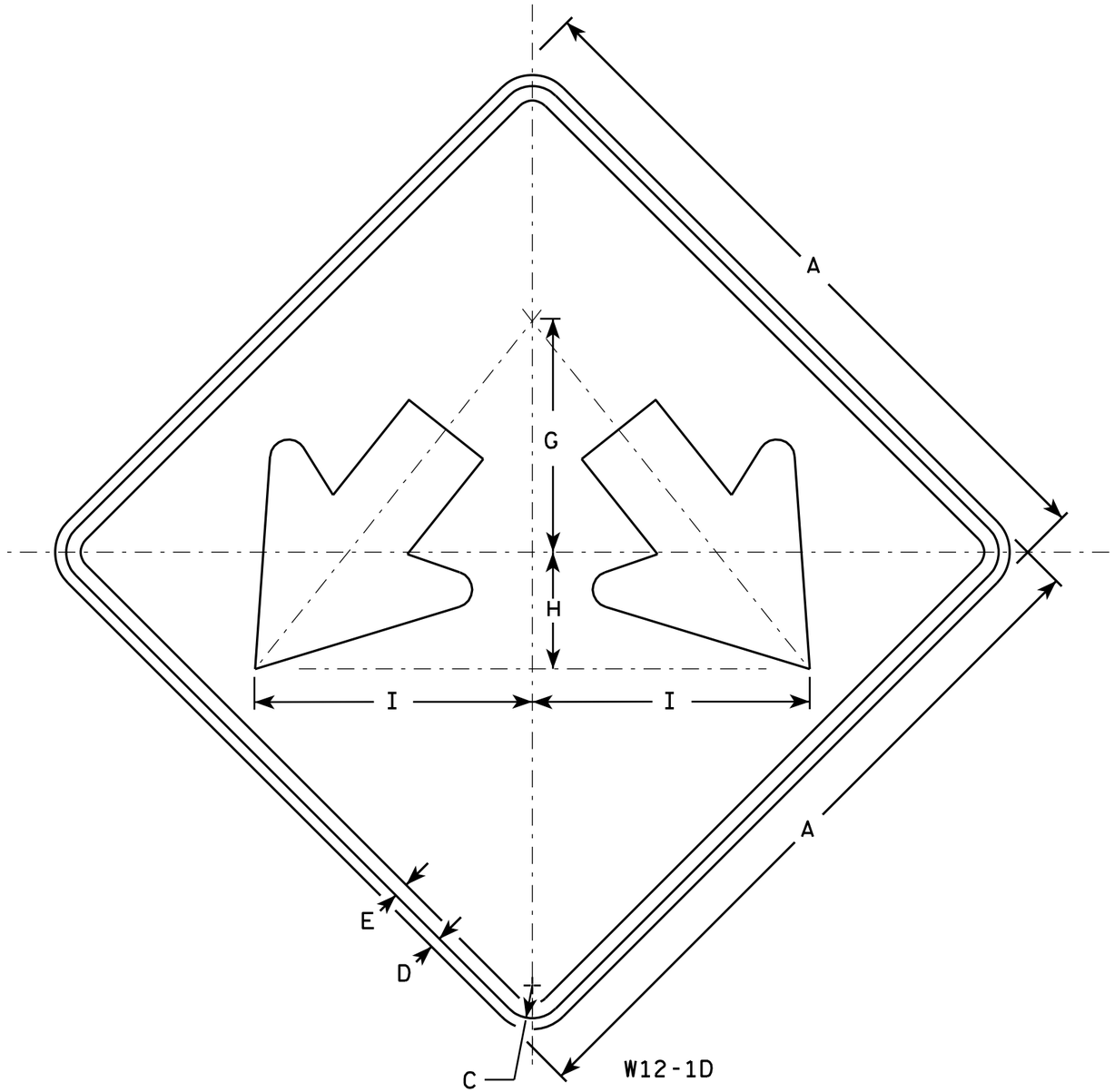
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

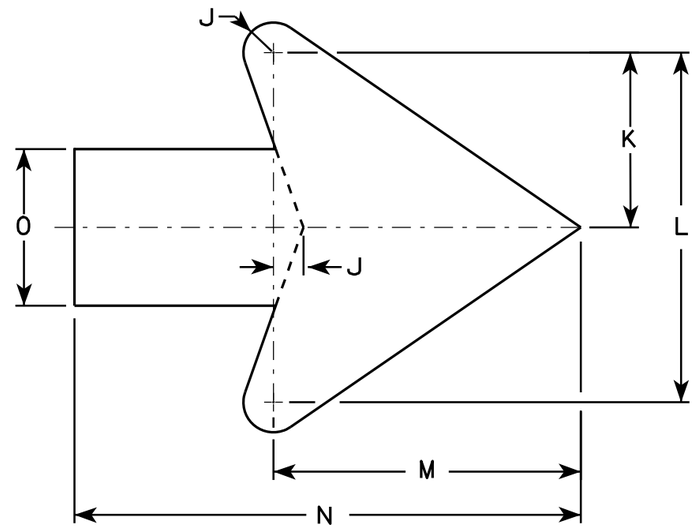
PROJECT NO:

SHEET NO: 201 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.



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	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

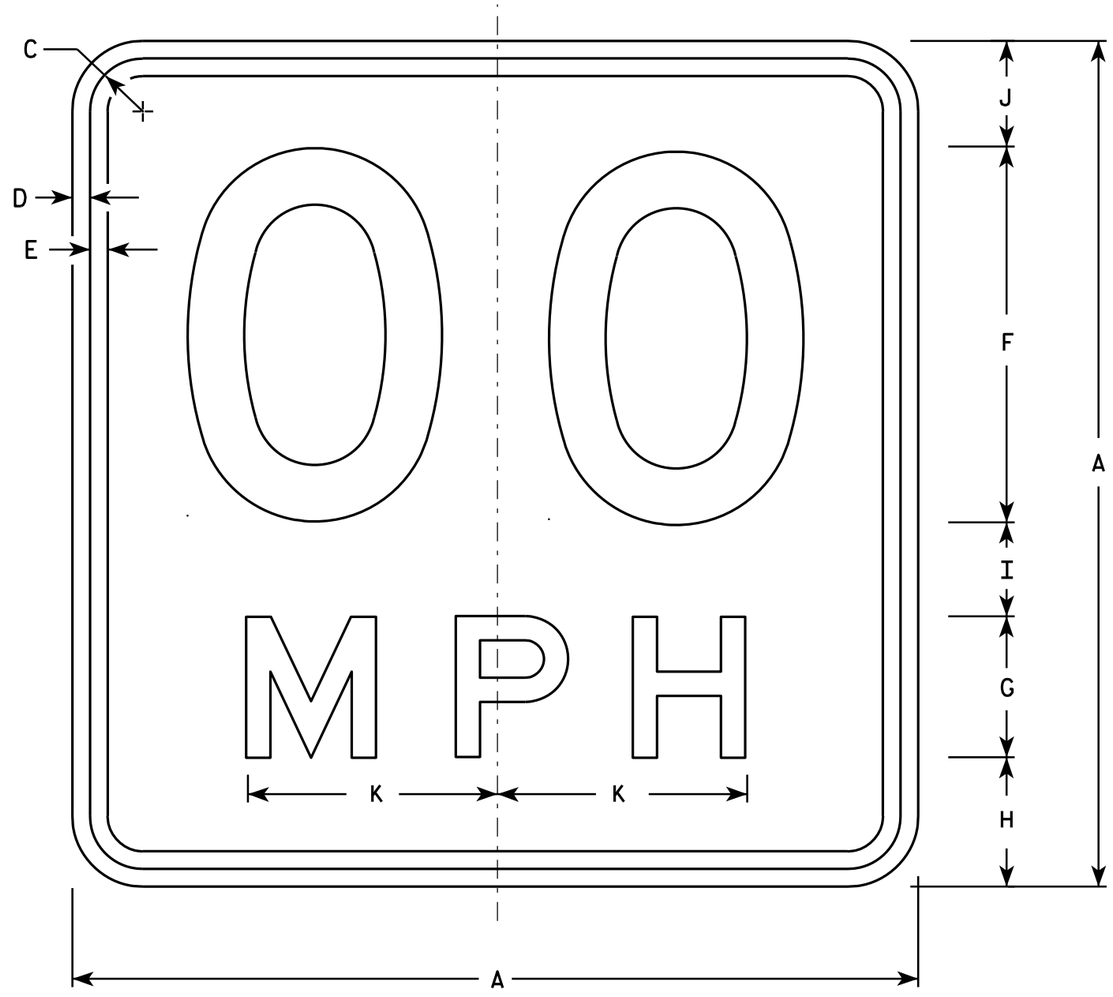
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 202	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

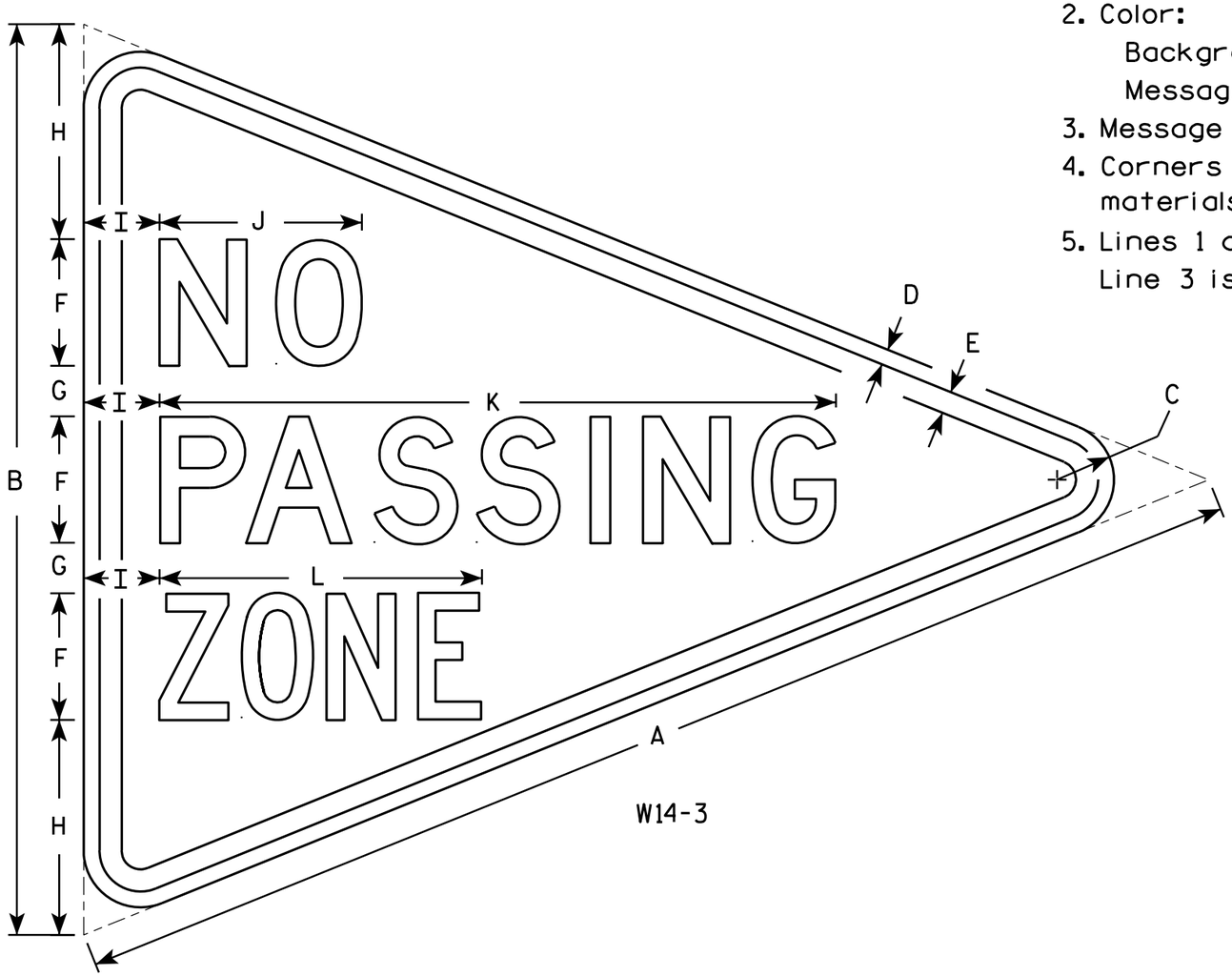
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 203	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																											

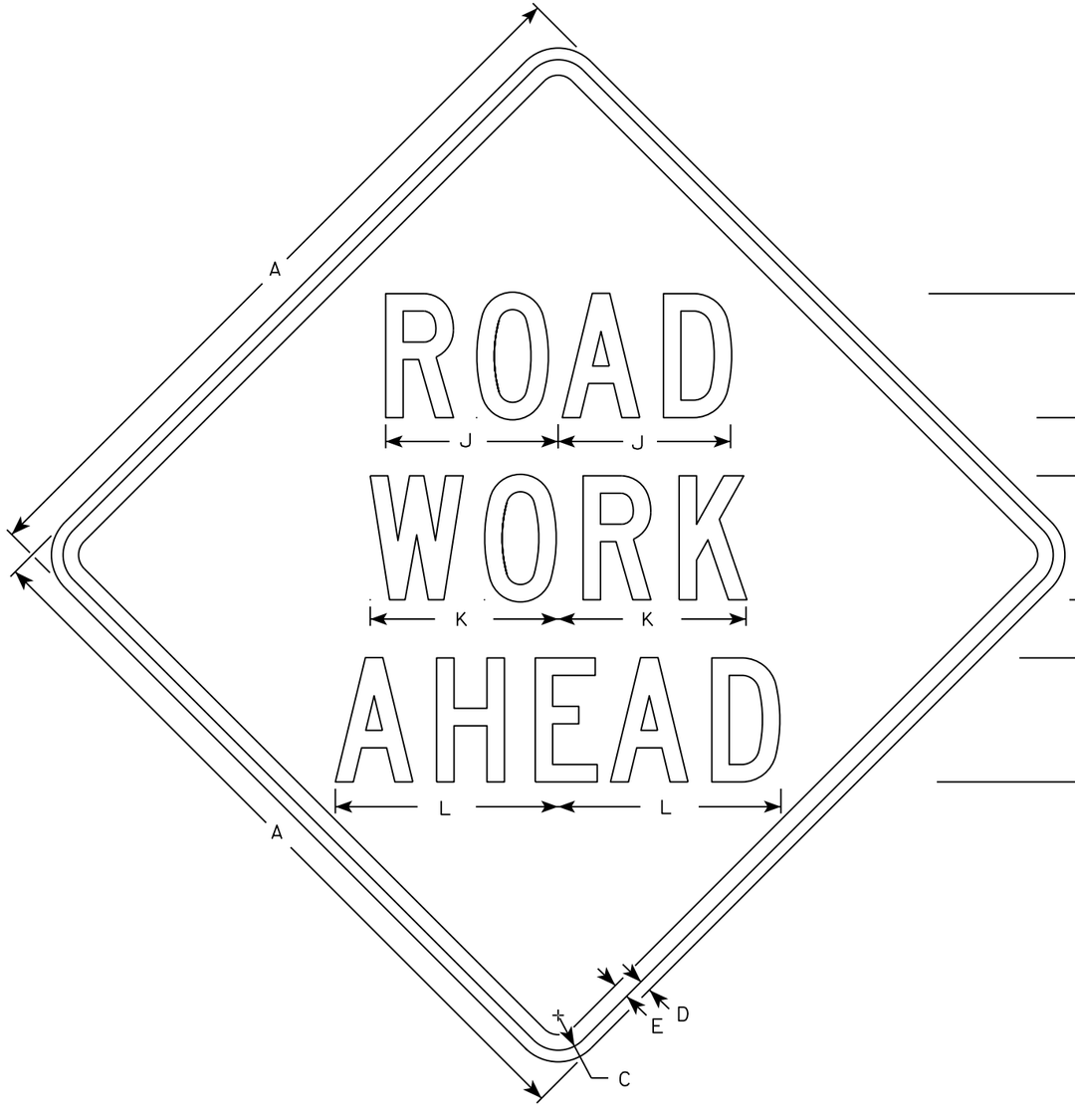
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

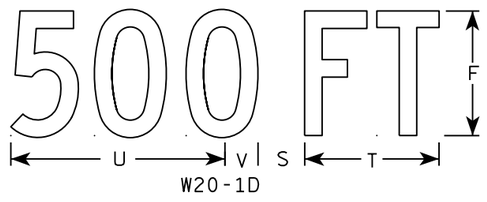
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

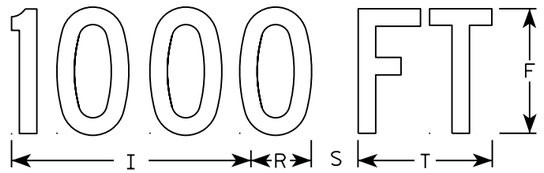
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 204	E



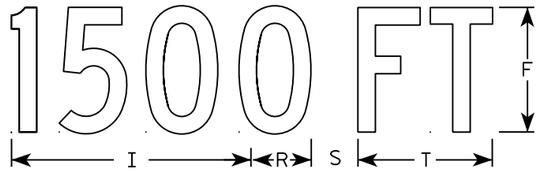
W20-1A



W20-1D



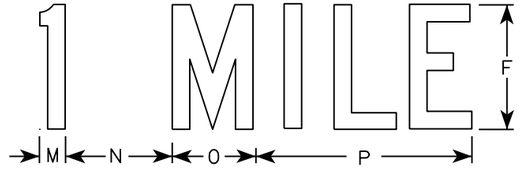
W20-1C



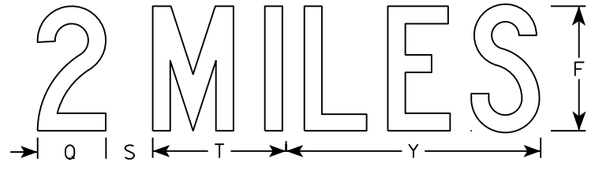
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

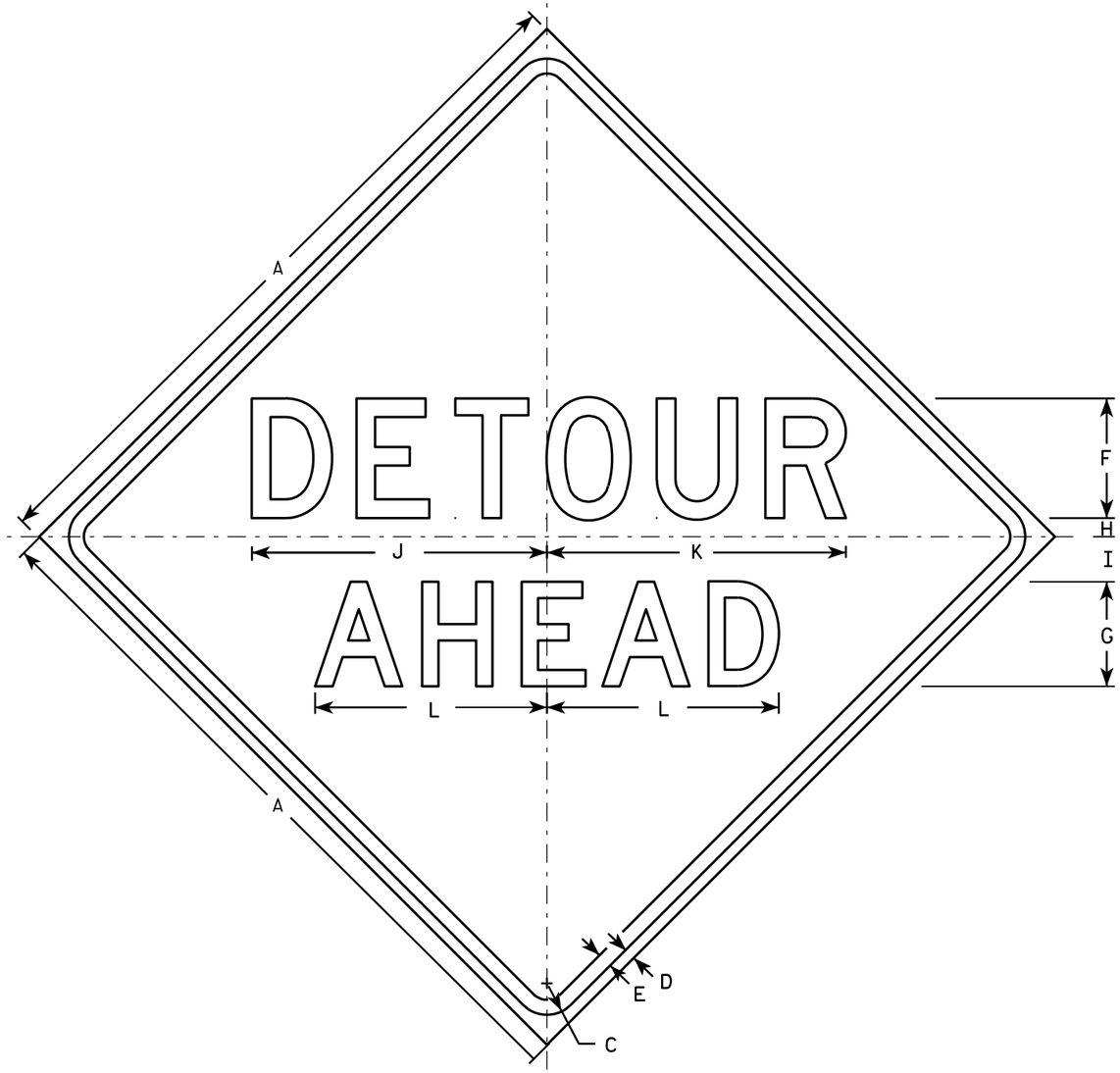
APPROVED Matthew R Rauch
for State Traffic Engineer

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

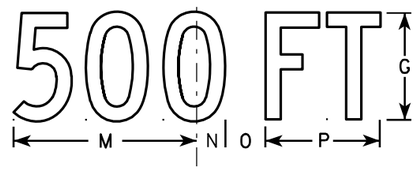
PROJECT NO:

SHEET NO: E

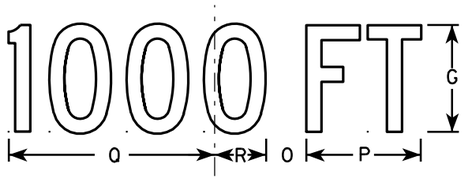
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



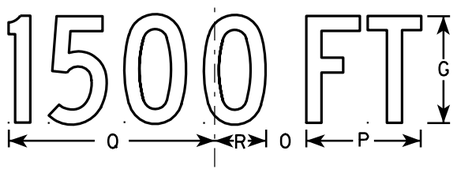
W20-2A



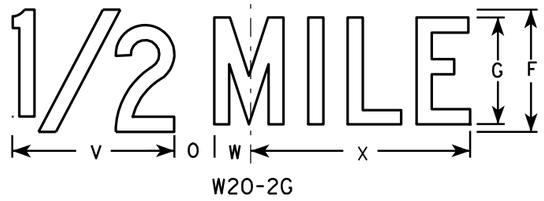
W20-2D



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

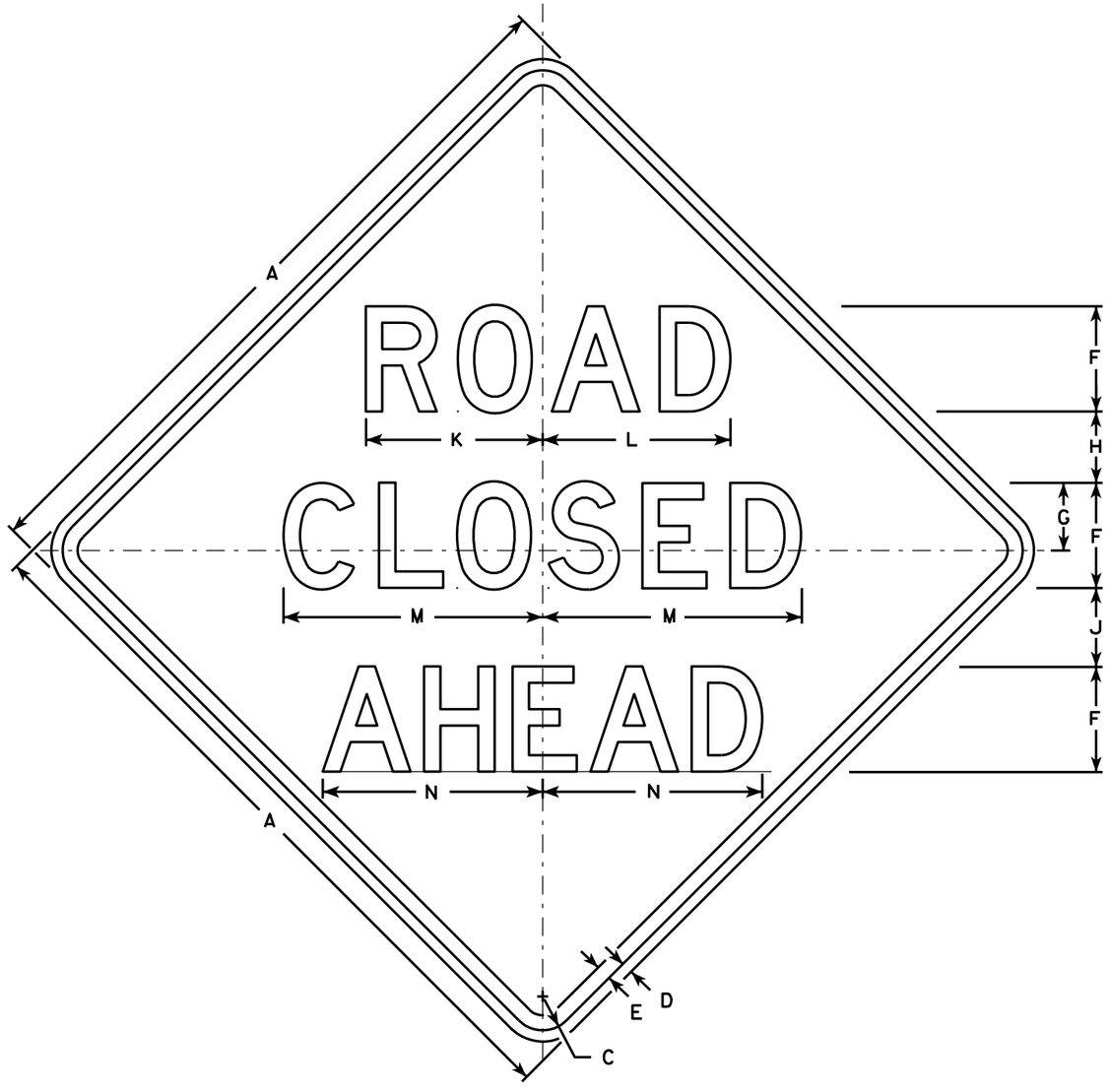
APPROVED Matthew R Rauch
for State Traffic Engineer

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

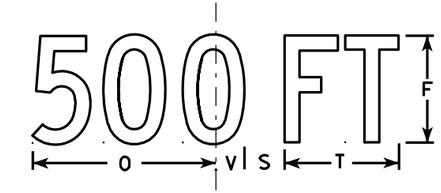
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 206 | E

7

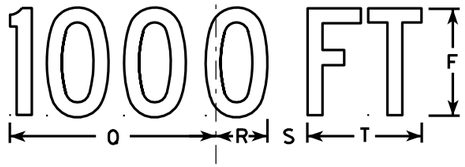
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



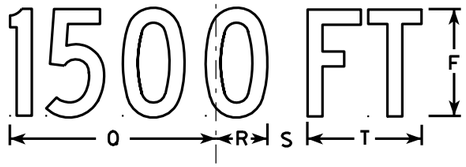
W20-3A



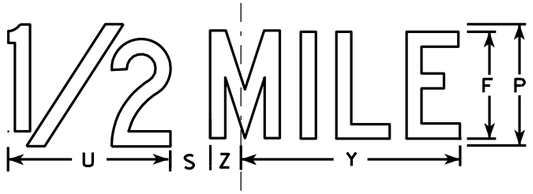
W20-3D



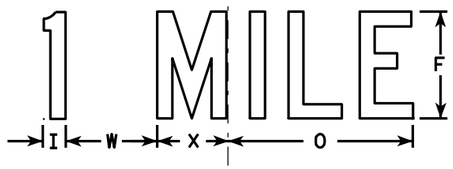
W20-3C



W20-3B



W20-3G



W20-3F

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. Lines 1 and 2 are Series D.
   Line 3 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	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 207 | E

7

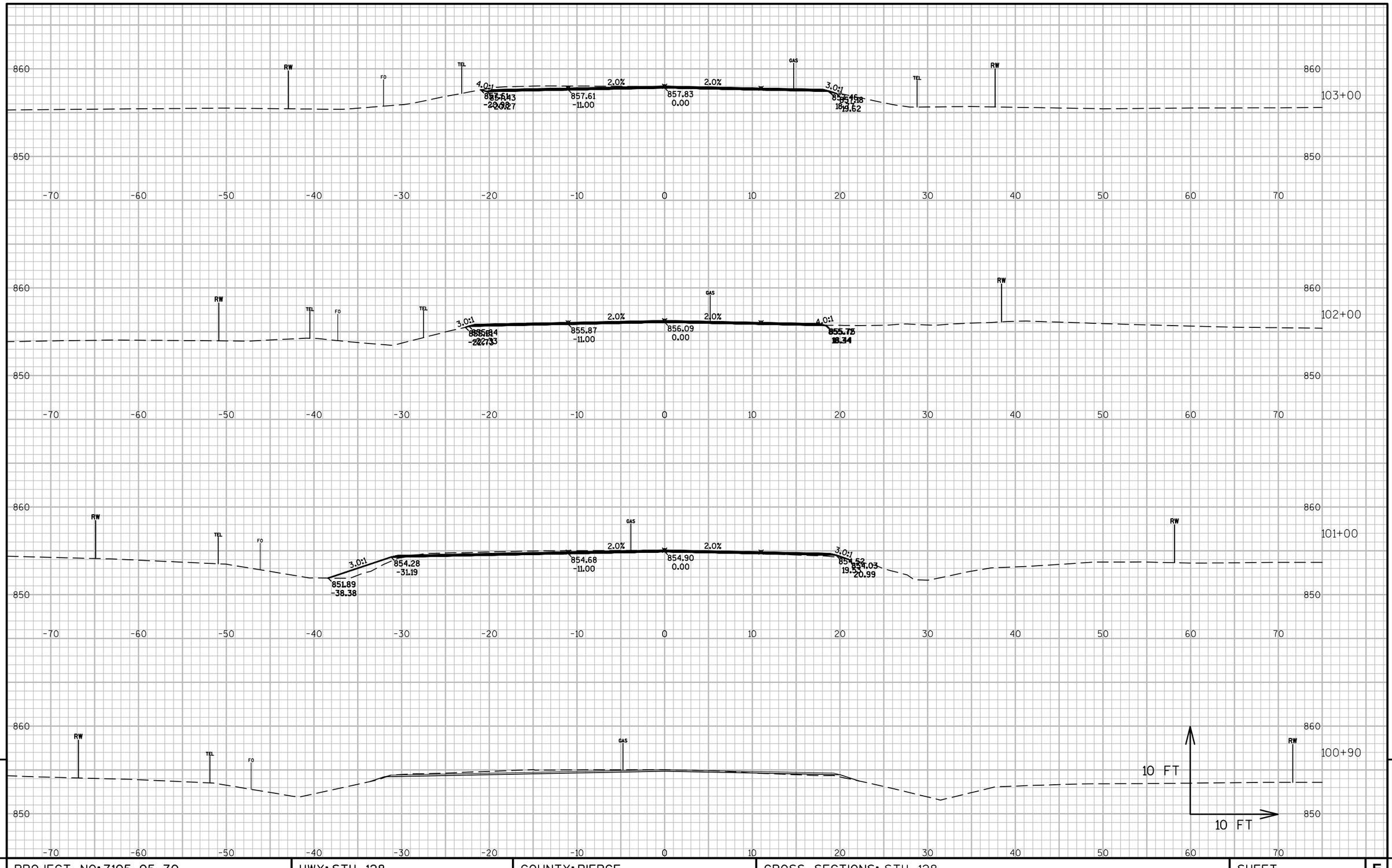
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42

Division	From / To Station	Location	Common Excavation Cut (2)	(item # 205.0100) EBS Excavation (3)	Unusable Material - See Comment A	Available Material (1)	Rock Excavation (7) (item #205.0200)	Expanded Rock (12) Factor 1.10	Unexpanded Fill	Expanded Fill (4) Factor 1.25	Mass Ordinate + / - (5)	Waste	Comment:
1	100+90 - 172+00	Bluff Excavation/Fill	11057	0	1106	9951	100	110	10389	12849	-2898		
		Stillling Basin	155	0	16	140			0	0	140		
	172+00-248+00	3:1 Grading	2410	0	241	2169	0	0	2274	2842	-673		A) Assumes 10% of cut is Unusable Material Determine usability upon excavation
	280+00-286+00	Guardrail Installations	226	0	23	203			58	72	131		
Division 1 Subtotal			13848	0	1385	12463	100	110	12721	15764	-3301	1385	
Grand Total			13848	0	1385	12463	100	110	12721	15764	-3301	1385	0

	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
100+90	7.736	0.00	0.00	1.36	0.00	0.00	0.00
101+00	6.166	2.57	2.57	5.55	1.28	1.28	1.29
101+50	1.636	7.22	9.80	5.46	10.19	11.47	-1.68
102+00	2.376	3.71	13.51	0.01	5.06	16.54	-3.03
102+50	3.516	5.46	18.97	2.04	1.90	18.44	0.53
103+00	6.116	8.92	27.89	0.21	2.08	20.52	7.37
103+50	2.036	7.55	35.44	0.86	0.99	21.51	13.92
104+00	1.566	3.34	38.77	1.15	1.86	23.37	15.40
104+50	6.136	7.13	45.90	2.01	2.93	26.30	19.60
105+00	1.926	7.46	53.37	1.84	3.56	29.86	23.50
105+50	47.146	45.44	98.80	1.3	2.91	32.77	66.03
106+00	57.366	96.77	195.57	4.35	5.23	38.00	157.57
106+50	94.686	140.79	336.36	4.93	8.59	46.59	289.77
107+00	80.556	162.26	498.62	3.39	7.70	54.30	444.33
107+50	56.686	127.08	625.70	43.82	43.71	98.01	527.69
108+00	59.706	107.77	733.47	133.15	163.86	261.87	471.60
108+50	72.866	122.75	856.22	131.36	244.92	506.79	349.43
109+00	47.616	111.56	967.78	70.3	186.72	693.51	274.27
109+50	94.996	132.05	1099.83	30.71	93.53	787.04	312.79
110+00	97.556	178.29	1278.12	24.49	51.11	838.15	439.97
110+50	36.506	124.13	1402.25	1.56	24.12	862.27	539.98
111+00	108.576	134.34	1536.58	0.34	1.76	864.03	672.55
111+50	12.726	112.32	1648.90	0.08	0.39	864.42	784.48
112+00	45.356	53.78	1702.68	905.03	838.06	1702.48	0.20
112+50	18.186	58.84	1761.52	859.21	1633.56	3336.04	-1574.52
113+00	39.386	53.31	1814.82	793.49	1530.28	4866.32	-3051.49
113+50	34.966	68.84	1883.67	194.67	914.96	5781.28	-3897.61
114+00	12.336	43.80	1927.47	11.03	190.46	5971.74	-4044.28
114+50	2.346	13.59	1941.06	16.23	25.24	5996.98	-4055.92
115+00	9.526	10.99	1952.05	0.1	15.12	6012.10	-4060.05
115+50	8.316	16.52	1968.57	25.82	24.00	6036.10	-4067.53
116+00	7.676	14.81	1983.38	19.06	41.56	6077.66	-4094.28
116+50	12.246	18.45	2001.83	4.11	21.45	6099.11	-4097.29
117+00	56.896	64.02	2065.85	4.33	7.81	6106.93	-4041.08
117+50	230.426	266.04	2331.89	2.32	6.16	6113.09	-3781.20
118+00	216.936	414.22	2746.11	8.73	10.23	6123.32	-3377.21
118+50	183.966	371.21	3117.32	5.33	13.02	6136.34	-3019.02
119+00	4.826	174.81	3292.12	35.89	38.17	6174.50	-2882.38
119+50	0.226	4.68	3296.80	35.53	66.13	6240.63	-2943.83
120+00	4.376	4.26	3301.06	17.18	48.81	6289.44	-2988.38
120+50	3.066	6.89	3307.95	21.69	35.99	6325.43	-3017.48
121+00	5.556	7.98	3315.94	18.95	37.63	6363.06	-3047.12
121+50	4.166	9.00	3324.94	23.46	39.27	6402.33	-3077.39
122+00	5.226	8.70	3333.63	31.32	50.72	6453.05	-3119.41
122+50	15.416	19.11	3352.75	23.22	50.50	6503.55	-3150.80
123+00	3.406	17.43	3370.17	30.95	50.16	6553.71	-3183.53
123+50	3.656	6.54	3376.71	30.22	56.64	6610.34	-3233.63
124+00	0.356	3.71	3380.43	38.07	63.23	6673.58	-3293.15
124+50	0.516	0.81	3381.24	63.13	93.70	6767.28	-3386.04
125+00	1.776	2.12	3383.36	53.66	108.14	6875.42	-3492.06
125+50	18.196	18.49	3401.85	27.15	74.82	6950.24	-3548.39
126+00	22.386	37.58	3439.43	17.75	41.57	6991.82	-3552.39
126+50	9.236	29.28	3468.71	44.86	57.97	7049.79	-3581.08
127+00	8.016	15.97	3484.68	48.06	86.04	7135.83	-3651.15
127+50	12.146	18.67	3503.35	22.37	65.21	7201.04	-3697.69
128+00	15.466	25.57	3528.92	9.69	29.69	7230.72	-3701.81
128+50	37.826	49.34	3578.26	2.69	11.46	7242.19	-3663.93
129+00	59.786	90.38	3668.64	8.35	10.22	7252.41	-3583.77
129+50	39.796	92.21	3760.85	8.31	15.43	7267.84	-3506.99
130+00	50.906	83.98	3844.83	3	10.47	7278.31	-3433.48
130+50	42.926	86.88	3931.71	3.17	5.71	7284.02	-3352.31
131+00	16.956	55.45	3987.16	17.44	19.08	7303.10	-3315.95
131+50	12.786	27.54	4014.70	16.51	31.44	7334.54	-3319.84
132+00	7.486	18.77	4033.47	5.2	20.10	7354.64	-3321.17
132+50	38.476	42.56	4076.02	5.07	9.51	7364.15	-3288.13
133+00	82.446	111.96	4187.99	2.64	7.14	7371.29	-3183.30
133+50	64.986	136.51	4324.50	0.44	2.85	7374.14	-3049.64
134+00	22.336	80.85	4405.35	0.56	0.93	7375.07	-2969.71
134+50	16.156	35.64	4440.99	0.06	0.57	7375.64	-2934.65
135+00	31.586	44.21	4485.20	4.94	4.63	7380.27	-2895.07
135+50	39.746	66.05	4551.25	15.49	18.92	7399.19	-2847.94
136+00	33.086	67.44	4618.69	12.39	25.81	7425.00	-2806.32
136+50	24.246	53.09	4671.77	11.9	22.49	7447.49	-2775.72
137+00	7.406	29.31	4701.08	18.37	28.03	7475.52	-2774.44
137+50	9.136	15.32	4716.39	13.62	29.62	7505.14	-2788.75
138+00	8.306	16.15	4732.54	6.36	18.50	7523.64	-2791.10
138+50	13.746	20.42	4752.96	8.43	13.69	7537.34	-2784.37
139+00	25.856	36.67	4789.63	2.98	10.56	7547.90	-2758.27
139+50	57.496	77.18	4866.81	0	2.76	7550.66	-2683.85
140+00	69.026	117.15	4983.96	2.58	2.39	7553.05	-2569.09
140+50	65.516	124.58	5108.54	6.02	7.96	7561.01	-2452.48
141+00	73.186	128.43	5236.96	7.88	12.87	7573.88	-2336.92
141+50	131.206	189.25	5426.22	23.17	28.75	7602.63	-2176.42
142+00	123.466	235.81	5662.02	16.62	36.84	7639.47	-1977.45
142+50	39.146	150.57	5812.59	0	15.39	7654.86	-1842.27
143+00	73.486	104.29	5916.88	0	0.00	7654.86	-1737.98
143+50	14.976	81.91	5998.79	21.91	20.29	7675.15	-1676.36
144+00	6.456	19.84	6018.63	13.73	33.00	7708.15	-1689.52
144+50	9.476	14.75	6033.38	5	17.34	7725.49	-1692.11
145+00	12.196	20.07	6053.45	11.11	14.92	7740.41	-1686.96
145+50	20.016	29.83	6083.28	15.6	24.73	7765.14	-1681.86
146+00	17.286	34.54	6117.82	0.27	14.69	7779.84	-1662.02
146+50	7.806	23.23	6141.05	2.8	2.84	7782.68	-1641.63
147+00	11.346	17.73	6158.78	1.15	3.66	7786.34	-1627.55
147+50	11.076	20.76	6179.54	4.68	5.40	7791.73	-1612.19
148+00	12.456	21.79	6201.33	3.36	7.44	7799.18	-1597.85
148+50	22.136	32.03	6233.36	4.39	7.18	7806.35	-1572.99
149+00	79.806	94.39	6327.75	0.15	4.20	7810.56	-1482.81
149+50	60.586	129.99	6457.74	31.63	29.43	7839.98	-1382.24
150+00	50.516	102.87	6560.62	0.87	30.09	7870.08	-1309.46
150+50	143.666	179.80	6740.42	10.03	10.09	7880.17	-1139.75
151+00	87.846	214.36	6954.78	0.02	9.31	7889.47	-934.70
151+50	161.666	231.03	7185.81	0.24	0.24	7889.71	-703.91
152+00	6.136	155.37	7341.18	13.33	12.56	7902.28	-561.10
152+50	4.546	9.89	7351.07	38.6	48.08	7950.36	-599.29
153+00	6.246	9.99	7361.06	43.59	76.10	8026.46	-665.40
153+50	426.936	401.09	7762.16	40.39	77.76	8104.22	-342.07

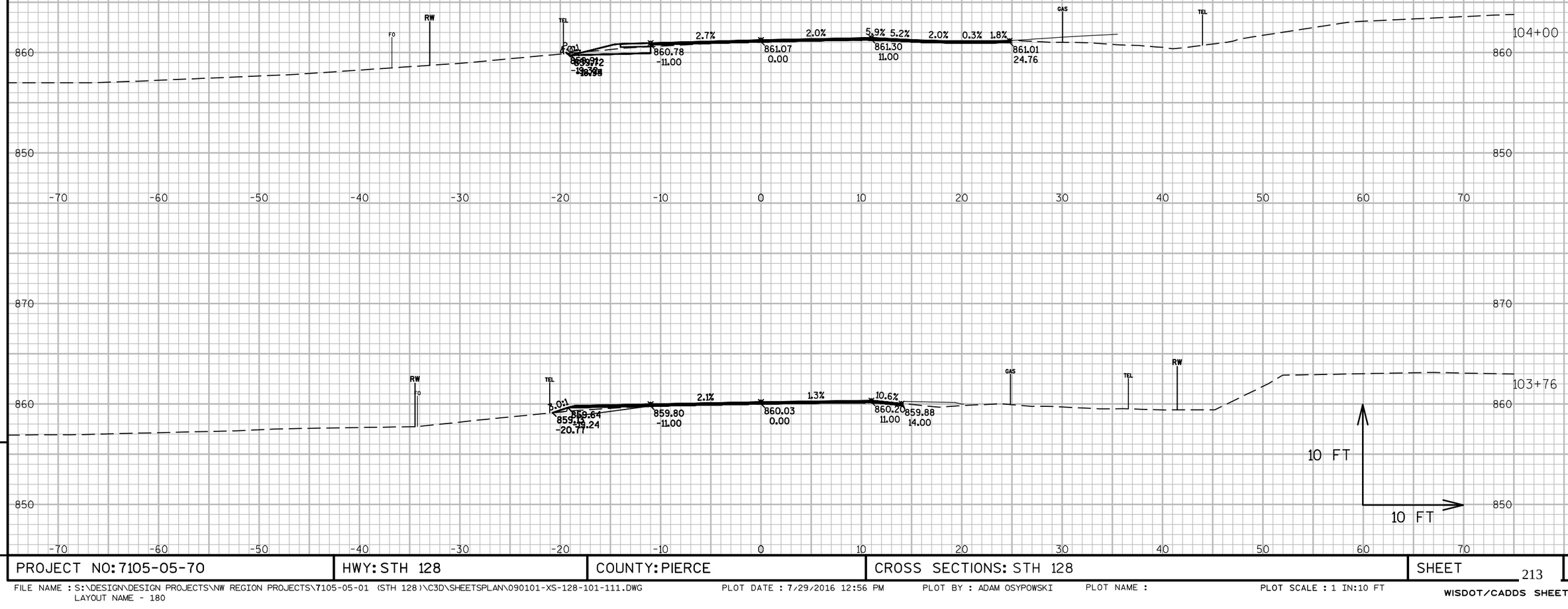
154+00	6.876	401.68	8163.84	46.94	80.86	8185.09	-21.25
154+50	3.646	9.74	8173.58	27.87	69.27	8254.35	-80.78
155+00	6.196	9.11	8182.69	15.4	40.06	8294.42	-111.73
155+50	61.336	62.53	8245.22	3.48	17.48	8311.90	-66.68
156+00	72.036	123.49	8368.71	37.21	37.68	8349.58	19.14
156+50	3.666	70.09	8438.81	5.28	39.34	8388.92	49.89
157+00	95.676	91.98	8530.79	33.17	35.60	8424.52	106.27
157+50	129.746	208.72	8739.52	17.62	47.03	8471.55	267.97
158+00	132.786	243.09	8982.60	21.37	36.10	8507.65	474.95
158+50	112.466	227.09	9209.69	49.3	65.44	8573.09	636.60
159+00	75.886	174.40	9384.09	38.43	81.23	8654.32	729.77
159+50	62.676	128.30	9512.38	15.95	50.35	8704.67	807.72
160+00	99.916	150.55	9662.93	83	91.62	8796.29	866.64
160+50	98.606	183.82	9846.75	0.73	77.53	8873.82	972.93
161+00	24.726	114.20	9960.94	47.69	44.83	8918.65	1042.29
161+50	67.746	85.62	10046.57	121.27	156.44	9075.09	971.47
162+00	6.116	68.39	10114.96	28.93	139.07	9214.17	900.79
162+50	5.076	10.36	10125.32	1.91	28.56	9242.72	882.60
163+00	6.176	10.42	10135.74	3.62	5.12	9247.84	887.89
163+50	6.426	11.67	10147.41	12.95	15.34	9263.19	884.22
164+00	5.306	10.86	10158.27	32.38	41.97	9305.16	853.11
164+50	57.256	57.93	10216.20	22.74	51.04	9356.20	860.00
165+00	35.006	85.43	10301.63	0.38	21.41	9377.60	924.02
165+50	47.456	76.35	10377.98	0.09	0.44	9378.04	999.94
166+00	27.236	69.16	10447.14	0	0.08	9378.12	1069.02
166+50	43.776	65.75	10512.89	0.86	0.80	9378.92	1133.97
167+00	80.046	114.65	10627.54	84.02	78.59	9457.51	1170.03
167+50	5.626	79.33	10706.87	19.67	96.01	9553.52	1153.35
168+00	56.386	57.42	10764.29	372.58	363.19	9916.71	847.57
168+50	82.926	128.99	10893.28	14.92	358.80	10275.51	617.77
169+00	17.236	92.74	10986.02	0.42	14.20	10289.71	696.31
169+50	4.646	20.26	11006.28	7.17	7.03	10296.74	709.54
170+00	2.096	6.24	11012.52	24.32	29.16	10325.90	686.62
170+50	2.536	4.29	11016.81	10.52	32.26	10358.16	658.65
171+00	6.576	8.44	11025.25	7.06	16.28	10374.44	650.81
171+50	9.156	14.57	11039.82	2.9	9.22	10383.66	656.16
172+00	9.596	17.36	11057.18	3.22	5.67	10389.33	667.85
172+50	8.866	17.09	11074.27	2.83	5.60	10394.93	679.35
173+00	8.296	15.89	11090.17	4.54	6.82	10401.75	688.41
173+50	10.876	17.75	11107.92	4.05	7.95	10409.71	698.21
174+00	6.666	16.24	11124.16	0	3.75	10413.46	710.70
174+50	8.466	14.01	11138.17	0	0.00	10413.46	724.72
175+00	5.666	13.09	11151.26	2.15	1.99	10415.45	735.81
175+50	8.676	13.28	11164.54	2.08	3.92	10419.36	745.17
176+00	4.796	12.47	11177.01	3.5	5.17	10424.53	752.48
176+50	3.766	7.93	11184.94	3.87	6.82	10431.35	753.58
177+00	2.976	6.24	11191.18	3.97	7.26	10438.61	752.57
177+50	4.176	6.62	11197.80	0.79	4.41	10443.02	754.78
178+00	1.866	5.59	11203.40	1.98	2.56	10445.59	757.81
178+50	5.996	7.28	11210.68	4.55	6.05	10451.63	759.04
179+00	8.396	13.33	11224.00	4.14	8.05	10459.68	764.32
179+50	1.786	9.43	11233.43	9.03	12.19	10471.87	761.56
180+00	5.086	6.36	11239.79	5.62	13.56	10485.44	754.36
180+50	5.156	9.48	11249.28	4.82	9.67	10495.10	754.17
181+00	3.656	8.16	11257.44	4.74	8.85	10503.96	753.48
181+50	5.936	8.88	11266.32	0.82	5.15	10509.10	757.21
182+00	4.846	9.98	11276.30	1.64	2.28	10511.38	764.92
182+50	2.766	7.05	11283.35	5.62	6.72	10518.10	765.24
183+00	3.246	5.57	11288.92	6.04	10.80	10528.90	760.02
183+50	9.656	11.95	11300.86	4.68	9.93	10538.83	762.04
184+00	6.466	14.93	11315.79	4.86	8.83	10547.66	768.13
184+50	4.586	10.23	11326.02	7.29	11.25	10558.91	767.11
185+00	4.666	8.57	11334.59	10.87	16.81	10575.72	758.87
185+50	7.586	11.34	11345.93	6.47	16.06	10591.78	754.15
186+00	9.346	15.68	11361.61	5.33	10.93	10602.71	758.91
186+50	6.016	14.22	11375.84	5.47	10.00	10612.71	763.13
187+00	4.466	9.71	11385.54	8.36	12.81	10625.51	760.03
187+50	5.716	9.43	11394.97	13.29	20.05	10645.56	749.41
188+00	5.146	10.06	11405.03	13.37	24.69	10670.24	734.78
188+50	5.576	9.93	11414.95	8.06	19.84	10690.09	724.87
189+00	6.386	11.08	11426.03	10.45	17.14	10707.22	718.81
189+50	13.326	18.25	11444.28	3.45	12.87	10720.09	724.19
190+00	6.676	18.52	11462.80	2.91	5.89	10725.98	736.82
190+50	3.406	9.34	11472.14	6.91	9.09	10735.08	737.06
191+00	3.886	6.75	11478.89	12.22	17.71	10752.79	726.10
191+50	2.206	5.64	11484.53	16.95	27.01	10779.80	704.73
192+00	4.466	6.18	11490.71	9.03	24.06	10803.85	686.85
192+50	6.836	10.46	11501.17	0.78	9.08	10812.94	688.24
193+00	10.666	16.21	11517.38	0.5	1.19	10814.12	703.26
193+50	8.916	18.13	11535.51	0.41	0.84	10814.96	720.54
194+00	5.586	13.43	11548.94	1.47	1.74	10816.71	732.23
194+50	5.756	10.50	11559.44	11.09	11.63	10828.34	731.10
195+00	9.096	13.75	11573.19	11.56	20.97	10849.31	723.88
195+50	4.076	12.20	11585.39	10.21	20.16	10869.46	715.92
196+00	2.366	5.96	11591.35	12.28	20.82	10890.29	701.06
196+50	1.516	3.59	11594.95	10.38	20.98	10911.27	683.68
197+00	4.116	5.21	11600.16	2.92	12.31	10923.59	676.58
197+50	7.056	10.34	11610.51	0.84	3.48	10927.07	683.44
198+00	2.696	9.03	11619.54	2.2	2.81	10929.88	689.65
198+50	4.316	6.49	11626.03	0.96	2.93	10932.81	693.22
199+00	2.056	5.90	11631.93	1.57	2.34	10935.15	696.78
199+50	2.386	4.11	11636.04	1.3	2.66	10937.81	698.23
200+00	1.406	3.51	11639.55	3.29	4.25	10942.06	697.49
200+50	7.066	7.84	11647.40	1.49	4.43	10946.48	700.91
201+00	6.296	12.37	11659.77	0.15	1.52	10948.00	711.77
201+50	9.726	14.84	11674.60	0.15	0.28	10948.28	726.32
202+00	8.556	16.93	11691.53	2.02	2.01	10950.29	741.24
202+50	8.476	15.77	11707.30	1.4	3.17	10953.46	753.85
203+00	9.546	16.69	11723.99	0.66	1.91	10955.36	768.63
203+50	9.996	18.09	11742.08	0.03	0.64	10956.00	786.08
204+00	9.696	18.23	11760.32	1.08	1.03	10957.03	803.29
204+50	11.846	19.95	11780.26	1.38	2.28	10959.31	820.96
205+00	10.456	20.65	11800.91	1.46	2.63	10961.94	838.98
205+50	8.486	17.54	11818.45	1.46	2.70	10964.64	853.81
206+00	8.216	15.46	11833.92	1.24	2.50	10967.14	866.78
206+50	9.276	16.20	11850.11	1.63	2.66	10969.80	880.32
207+00	9.826	17.69	11867.80	1.17	2.59	10972.39	895.41
207+50	19.326	26.99	11894.79	0.93	1.94	10974.34	920.46
208+00	17.496	34.09	11928.89	1.31	2.07	10976.41	952.48
208+50	9.826	25.30	11954.19	5.13	5.96	10982.37	971.81

209+00	8.436	16.91	11971.09	0.1	4.84	10987.21	983.88
209+50	7.106	14.39	11985.49	0.64	0.69	10987.90	997.59
210+00	8.316	14.28	11999.77	6.34	6.46	10994.36	1005.40
210+50	7.436	14.59	12014.35	14.75	19.53	11013.89	1000.46
211+00	9.056	15.27	12029.62	1.31	14.87	11028.76	1000.86
211+50	11.046	18.61	12048.23	0	1.21	11029.97	1018.26
212+00	14.666	23.81	12072.04	2.09	1.94	11031.91	1040.13
212+50	57.556	66.87	12138.91	0.06	1.99	11033.90	1105.01
213+00	31.736	82.68	12221.59	3.15	2.97	11036.87	1184.72
213+50	10.096	38.73	12260.32	11.86	13.90	11050.77	1209.55
214+00	7.786	16.56	12276.88	12.73	22.77	11073.54	1203.34
214+50	4.856	11.71	12288.59	16.95	27.48	11101.02	1187.57
215+00	13.056	16.59	12305.17	0	15.69	11116.71	1188.46
215+50	8.116	19.60	12324.78	5.87	5.44	11122.15	1202.63
216+00	8.586	15.46	12340.24	3.04	8.25	11130.40	1209.84
216+50	9.816	17.04	12357.28	3.65	6.19	11136.59	1220.69
217+00	8.316	16.79	12374.07	3.56	6.68	11143.27	1230.80
217+50	10.096	17.05	12391.12	2.7	5.80	11149.07	1242.05
218+00	11.346	19.85	12410.97	1.43	3.82	11152.89	1258.08
218+50	7.296	17.26	12428.23	0.51	1.80	11154.69	1273.54
219+00	9.266	15.34	12443.57	0.12	0.58	11155.27	1288.30
219+50	8.866	16.79	12460.36	1.29	1.31	11156.58	1303.78
220+00	6.896	14.59	12474.95	1.49	2.57	11159.15	1315.80
220+50	9.336	15.03	12489.98	5.98	6.92	11166.07	1323.91
221+00	6.646	14.80	12504.78	7.14	12.15	11178.21	1326.56
221+50	14.946	19.99	12524.77	3.79	10.12	11188.34	1336.44
222+00	25.756	37.69	12562.46	0.46	3.94	11192.27	1370.19
222+50	40.976	61.79	12624.25	0	0.43	11192.70	1431.55
223+00	35.016	70.36	12694.61	0.37	0.34	11193.04	1501.57
223+50	26.436	56.90	12751.51	0.84	1.12	11194.16	1557.35
224+00	2.166	26.48	12777.99	5.05	5.45	11199.61	1578.38
224+50	4.276	5.96	12783.96	2.49	6.98	11206.59	1577.36
225+00	4.056	7.71	12791.67	3.13	5.20	11211.80	1579.87
225+50	7.696	10.88	12802.55	2.28	5.01	11216.81	1585.75
226+00	4.336	11.14	12813.69	2.23	4.18	11220.98	1592.71
226+50	5.496	9.10	12822.80	305.22	284.68	11505.66	1317.14
227+00	5.276	9.97	12832.77	234.59	499.82	12005.48	827.29
227+50	5.126	9.63	12842.40	35.72	250.29	12255.77	586.63
228+00	4.076	8.52	12850.92	4.19	36.95	12292.72	558.20
228+50	5.516	8.88	12859.81	2.29	6.00	12298.72	561.08
229+00	6.316	10.96	12870.76	0.65	2.72	12301.45	569.32
229+50	7.946	13.21	12883.97	0.62	1.18	12302.62	581.34
230+00	7.566	14.36	12898.33	0.6	1.13	12303.75	594.58
230+50	7.636	14.08	12912.41	0.43	0.95	12304.71	607.70
231+00	6.486	13.08	12925.48	0.57	0.93	12305.63	619.85
231+50	10.766	15.97	12941.46	2.86	3.18	12308.81	632.65
232+00	8.596	17.93	12959.38	0.84	3.43	12312.23	647.15
232+50	8.866	16.17	12975.55	3.18	3.72	12315.96	659.60
233+00	11.116	18.50	12994.05	1.24	4.09	12320.05	674.01
233+50	10.346	19.87	13013.93	3.63	4.51	12324.56	689.37
234+00	7.436	16.46	13030.39	1.91	5.13	12329.69	700.70
234+50	9.776	15.94	13046.33	0.12	1.88	12331.57	714.76
235+00	11.726	19.91	13066.24	0	0.11	12331.68	734.56
235+50	10.576	20.65	13086.89	0	0.00	12331.68	755.21
236+00	9.656	18.73	13105.62	0.19	0.18	12331.85	773.77
236+50	10.106	18.30	13123.92	30.28	28.21	12360.07	763.85
237+00	11.456	19.96	13143.88	48.71	73.14	12433.21	710.68
237+50	8.846	18.80	13162.68	41.07	83.13	12516.34	646.35
238+00	7.426	15.07	13177.75	5.33	42.96	12559.30	618.45
238+50	4.176	10.74	13188.49	6.71	11.15	12570.45	618.04
239+00	0.966	4.76	13193.25	0.45	6.63	12577.08	616.18
239+50	3.716	4.34	13197.59	15.55	14.81	12591.89	605.70
240+00	6.616	9.57	13207.15	5.7	19.68	12611.57	595.59
240+50	8.016	13.55	13220.70	0.77	5.99	12617.56	603.14
241+00	5.936	12.92	13233.62	0.58	1.25	12618.81	614.81
241+50	5.006	10.13	13243.75	2.83	3.16	12621.96	621.79
242+00	4.426	8.73	13252.49	1.47	3.98	12625.95	626.54
242+50	4.116	7.91	13260.39	2.99	4.13	12630.08	630.32
243+00	2.706	6.32	13266.71	4.7	7.12	12637.20	629.52
243+50	4.746	6.90	13273.61	6.15	10.05	12647.24	626.37
244+00	9.986	13.64	13287.25	1.78	7.34	12654.59	632.67
244+50	10.016	18.52	13305.77	1.35	2.90	12657.48	648.29
245+00	10.896	19.36	13325.14	0.41	1.63	12659.11	666.02
245+50	11.446	20.69	13345.82	0.52	0.86	12659.97	685.85
246+00	11.386	21.14	13366.96	0.61	1.05	12661.02	705.94
246+50	11.326	21.03	13387.99	0.37	0.91	12661.93	726.07
247+00	11.676	21.30	13409.29	0.29	0.61	12662.54	746.75
247+50	12.596	22.47	13431.77	0.05	0.31	12662.85	768.91
248+00	12.676	23.40	13455.17	0.06	0.10	12662.96	792.21
248+50	0	11.74	13466.90	0	0.06	12663.01	803.89
279+50	0.966	0.89	13467.80	2.39	2.21	12665.22	802.57
280+00	3.636	4.26	13472.06	0.87	3.02	12668.24	803.82
280+50	11.986	14.46	13486.52	2.41	3.04	12671.28	815.24
281+00	9.716	20.09	13506.62	1.51	3.63	12674.91	831.71
281+50	15.256	23.12	13529.74	4.73	5.78	12680.69	849.05
282+00	16.776	29.66	13559.40	5.01	9.02	12689.71	869.69
282+50	9.326	24.17	13583.57	0.22	4.84	12694.55	889.02
283+00	2.016	10.50	13594.07	0.12	0.31	12694.86	899.21
283+50	7.376	8.70	13602.77	1.34	1.35	12696.21	906.55
284+00	13.246	19.09	13621.86	4.93	5.81	12702.02	919.84
284+50	10.756	22.22	13644.08	4.37	8.61	12710.63	933.45
285+00	8.576	17.90	13661.98	2.75	6.59	12717.22	944.76
285+50	9.846	17.06	13679.04	0	2.55	12719.77	959.27
286+00	1.626	10.62	13689.66	0.13	0.12	12719.89	969.77
286+50	0.866	2.31	13691.97	0.32	0.42	12720.31	971.66
287+00	0	0.80	13692.77	0.39	0.66	12720.96	971.81



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 212	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090101-XS-128-101-111.DWG
LAYOUT NAME - 179
PLOT DATE : 7/29/2016 12:55 PM
PLOT BY : ADAM OSYPOWSKI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

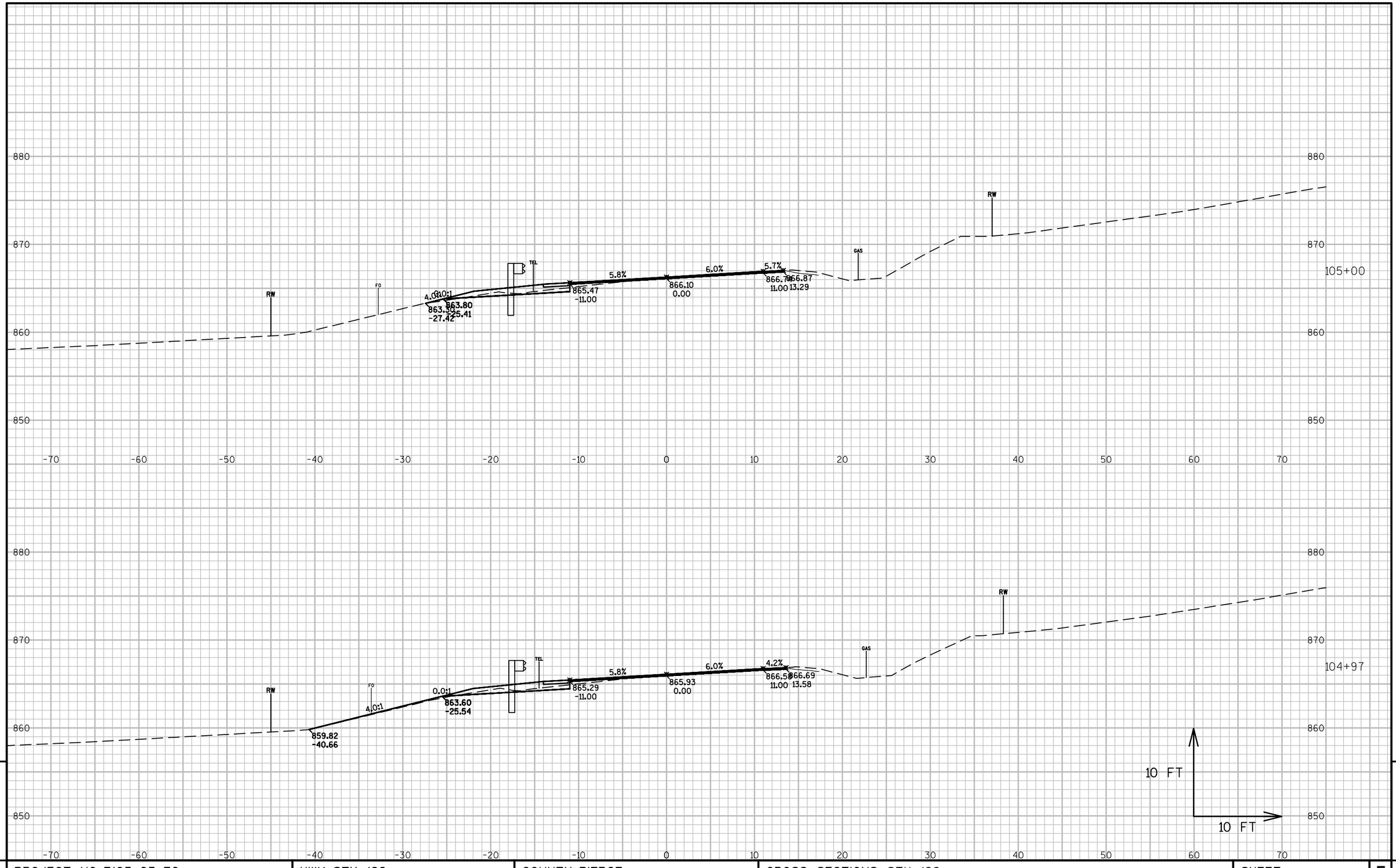


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 213	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090101-XS-128-101-111.DWG
LAYOUT NAME - 180

PLOT DATE : 7/29/2016 12:56 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

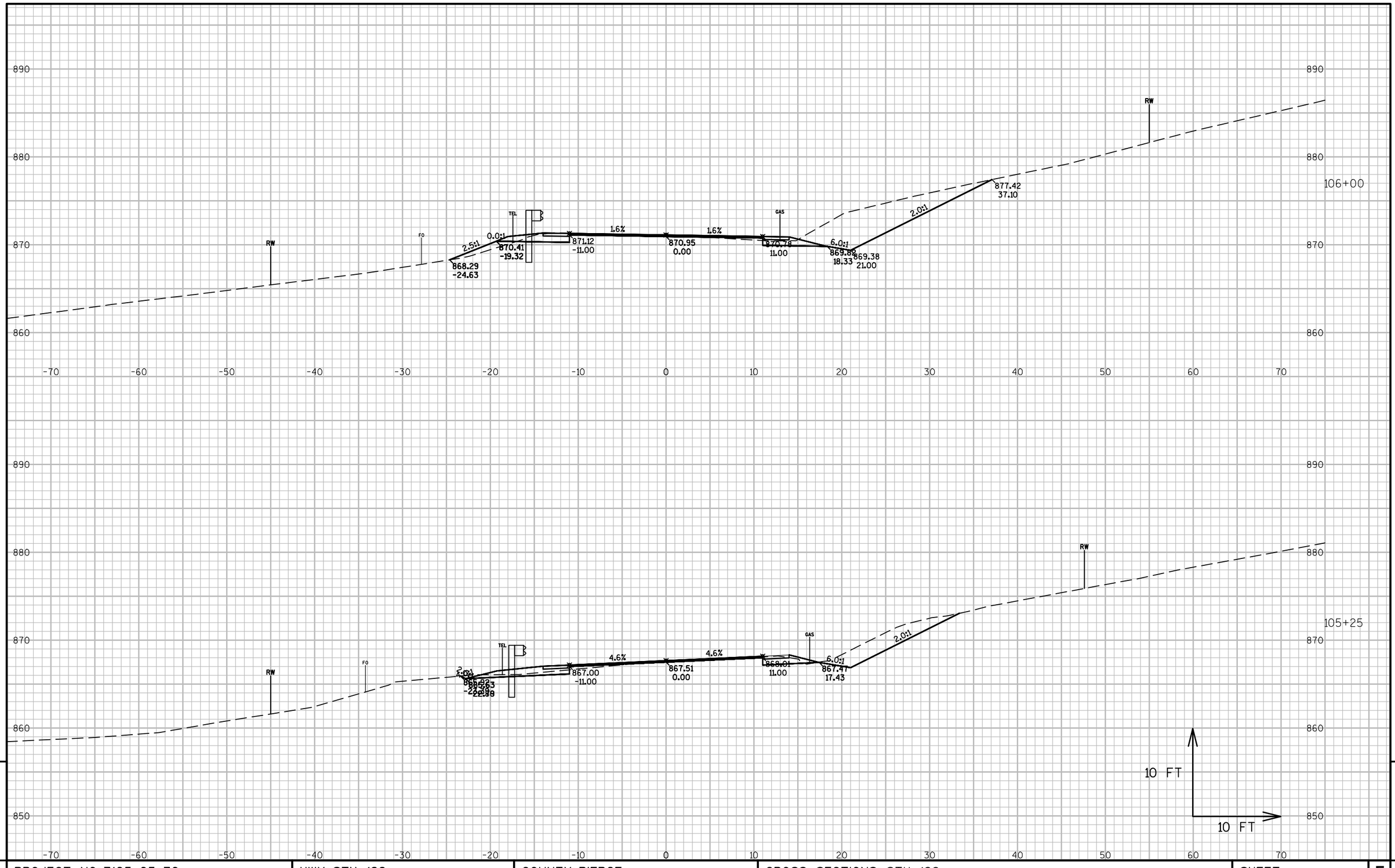
9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 214	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090101-XS-128-101-111.DWG
LAYOUT NAME - 181

PLOT DATE : 7/29/2016 12:57 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

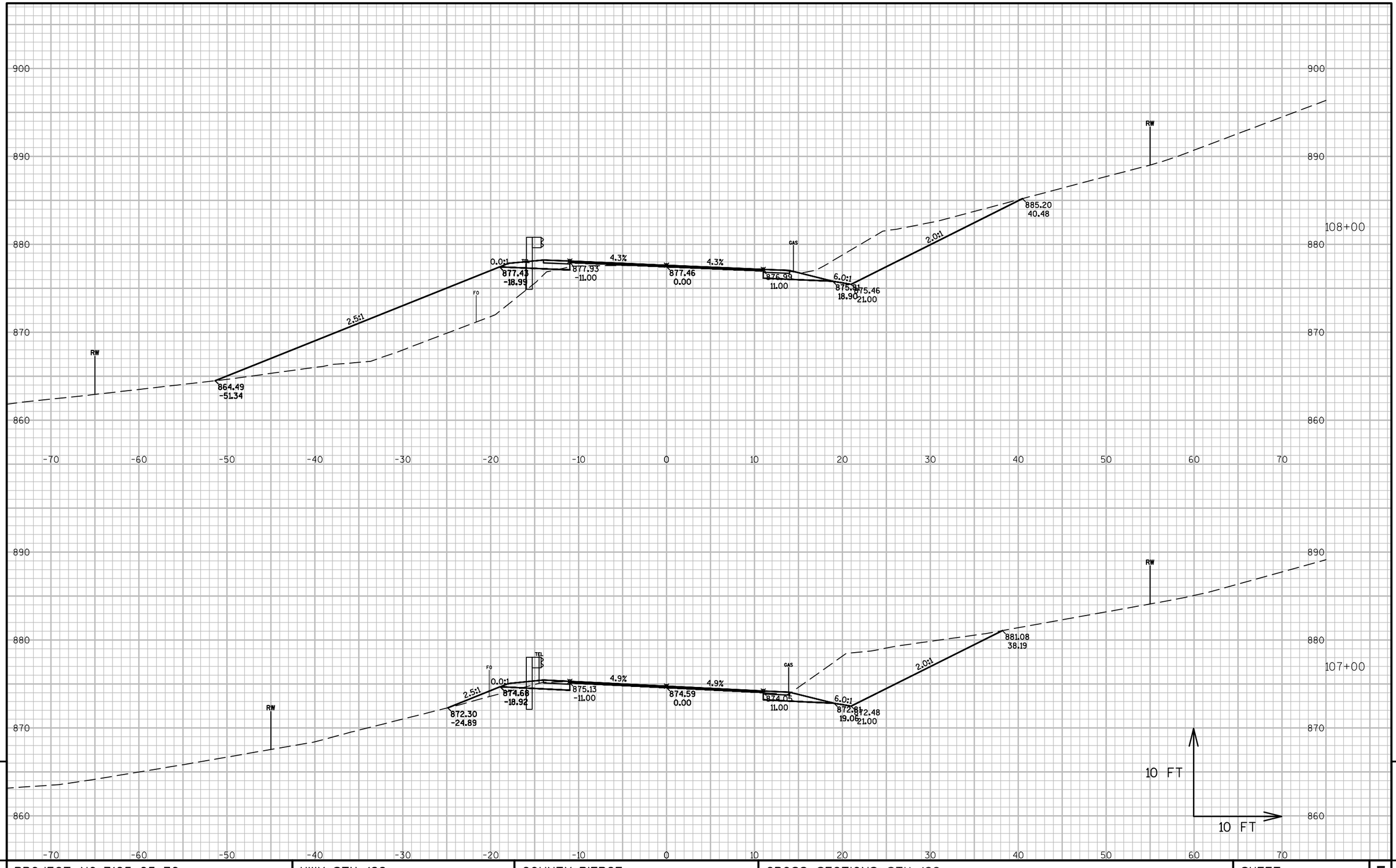
WISDOT/CADDS SHEET 49



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 215 E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090101-XS-128-101-111.DWG
LAYOUT NAME - 182

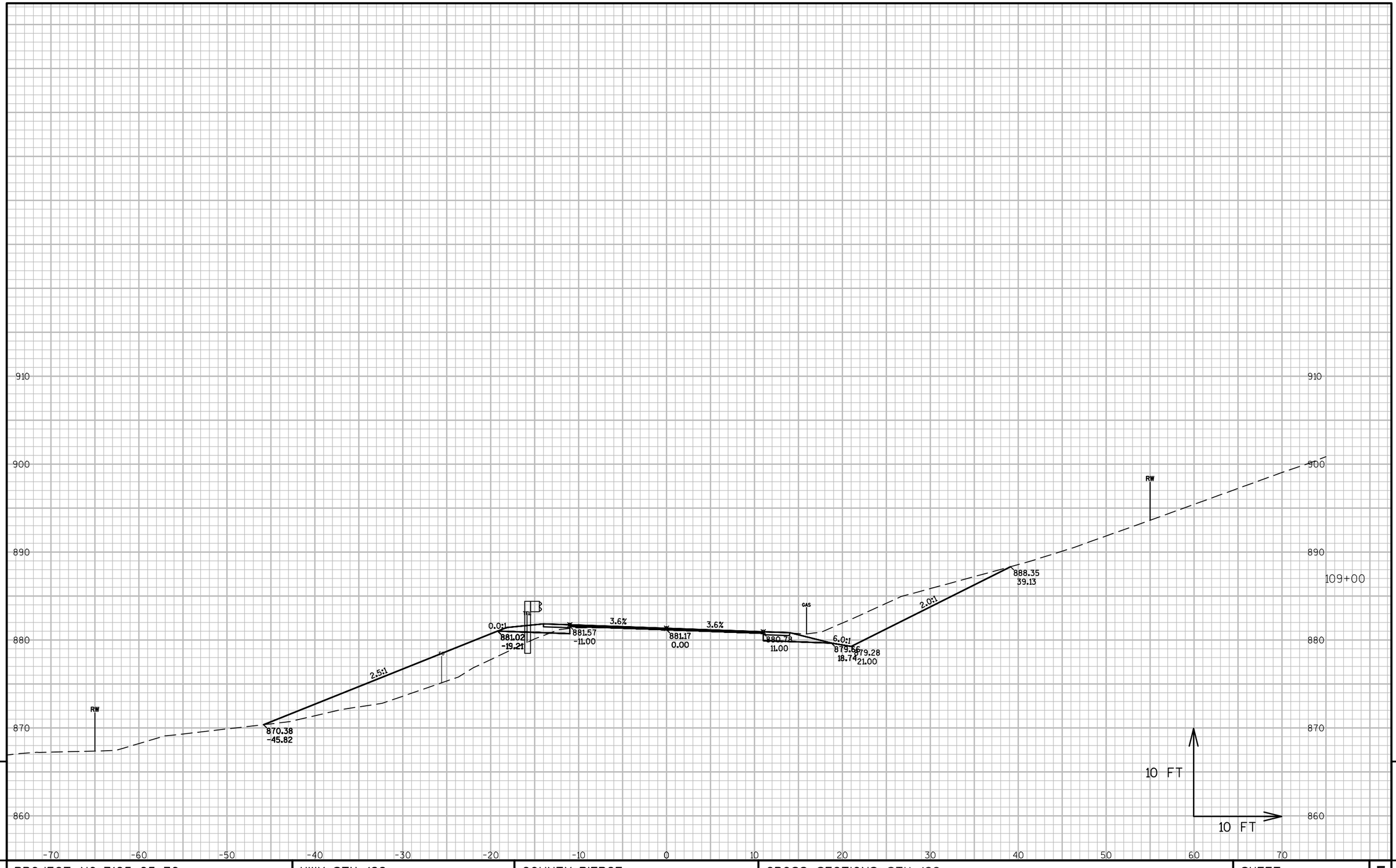
PLOT DATE : 7/29/2016 12:58 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 216	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090101-XS-128-101-111.DWG
LAYOUT NAME - 183

PLOT DATE : 7/29/2016 12:59 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

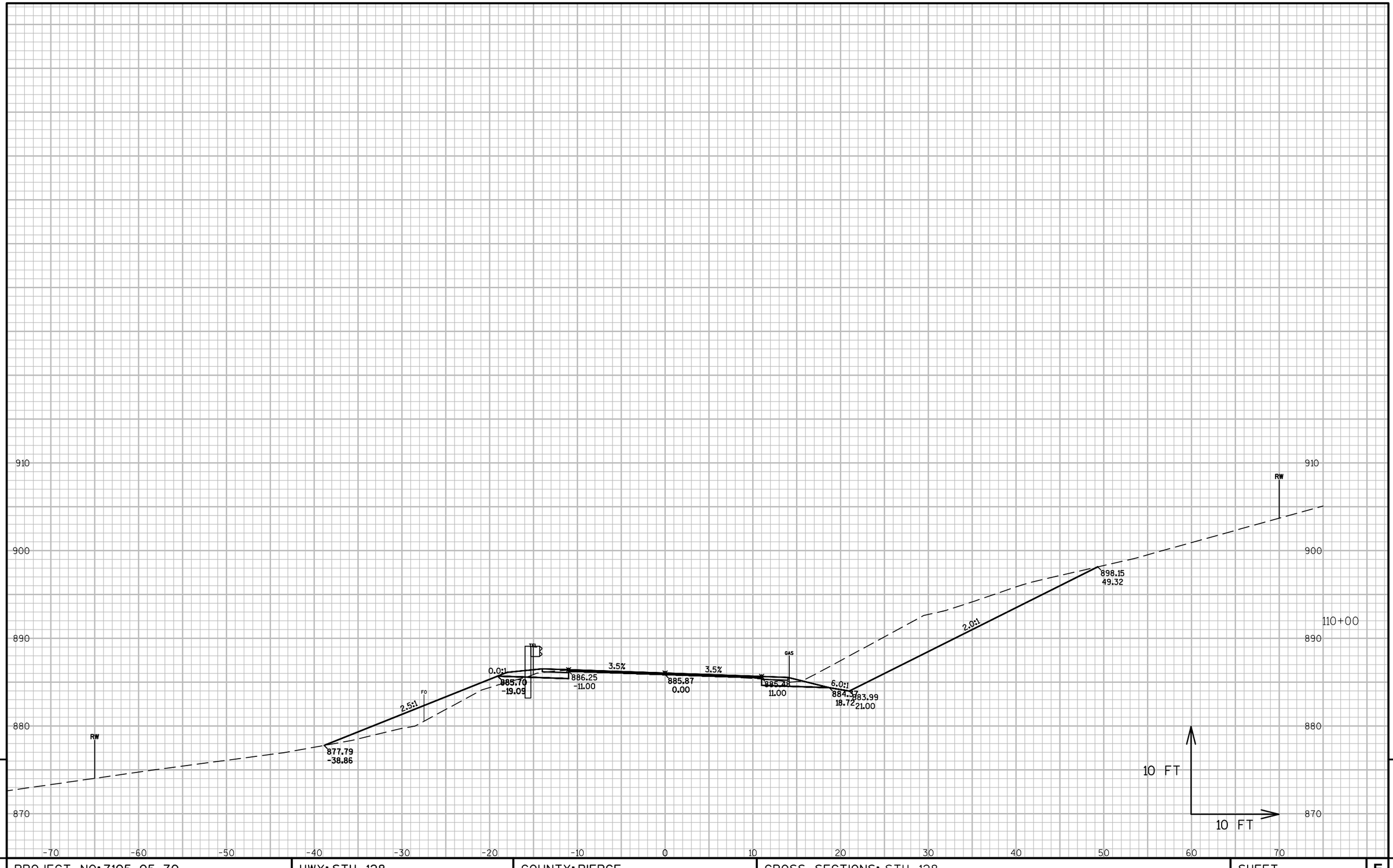


9 9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 217	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090101-XS-128-101-111.DWG
LAYOUT NAME - 184

PLOT DATE : 7/29/2016 1:00 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



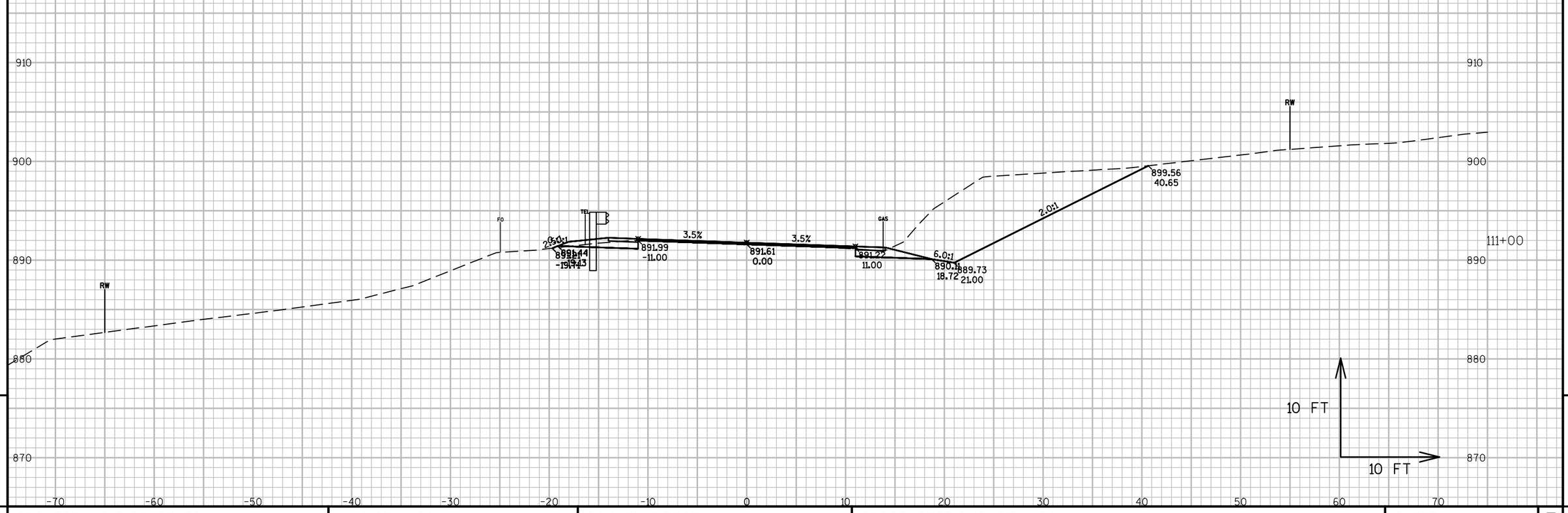
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 218	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090101-XS-128-101-111.DWG
LAYOUT NAME - 185

PLOT DATE : 7/29/2016 1:01 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



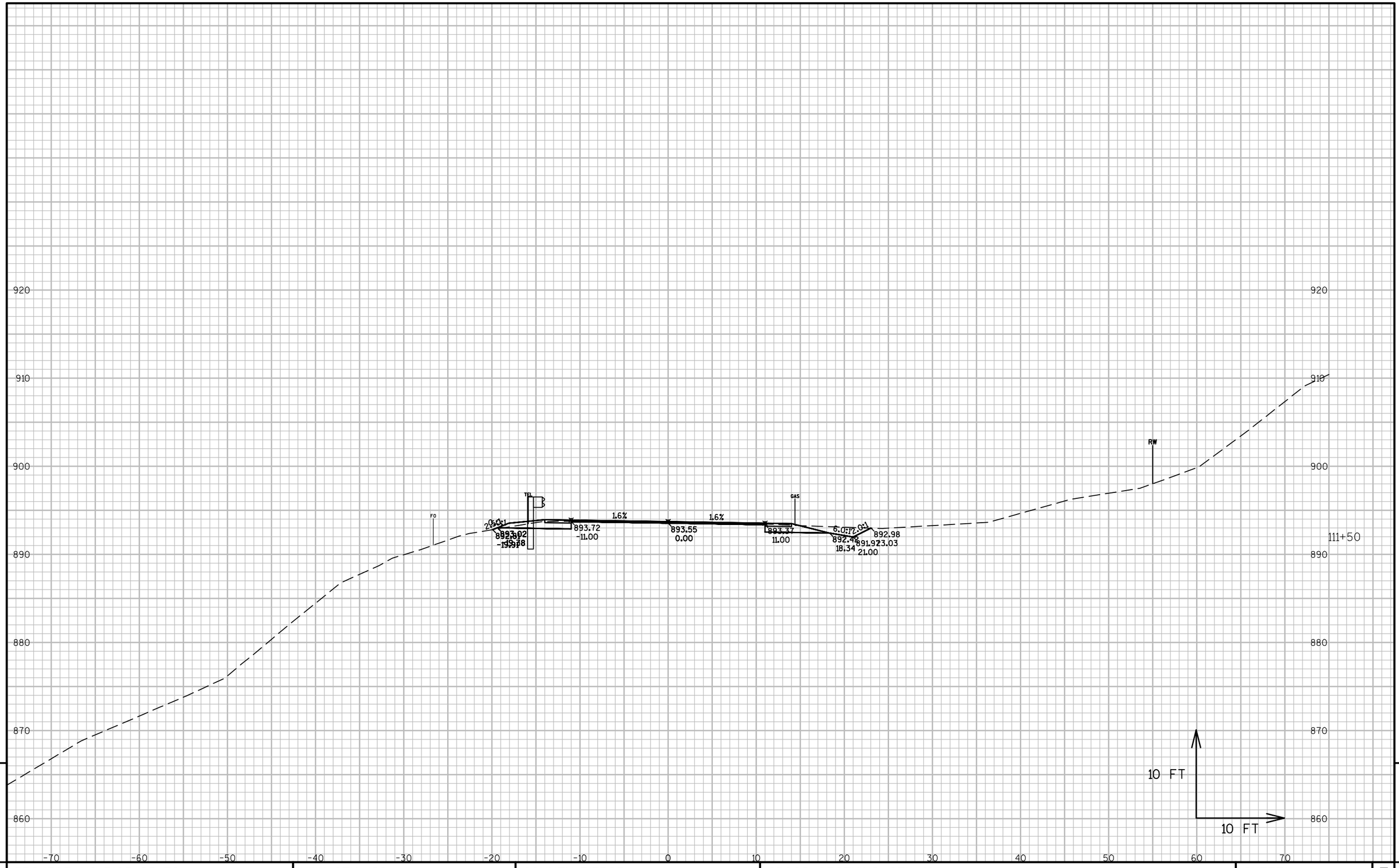
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 219	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090101-XS-128-101-111.DWG
LAYOUT NAME - 185

PLOT DATE : 7/29/2016 1:02 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



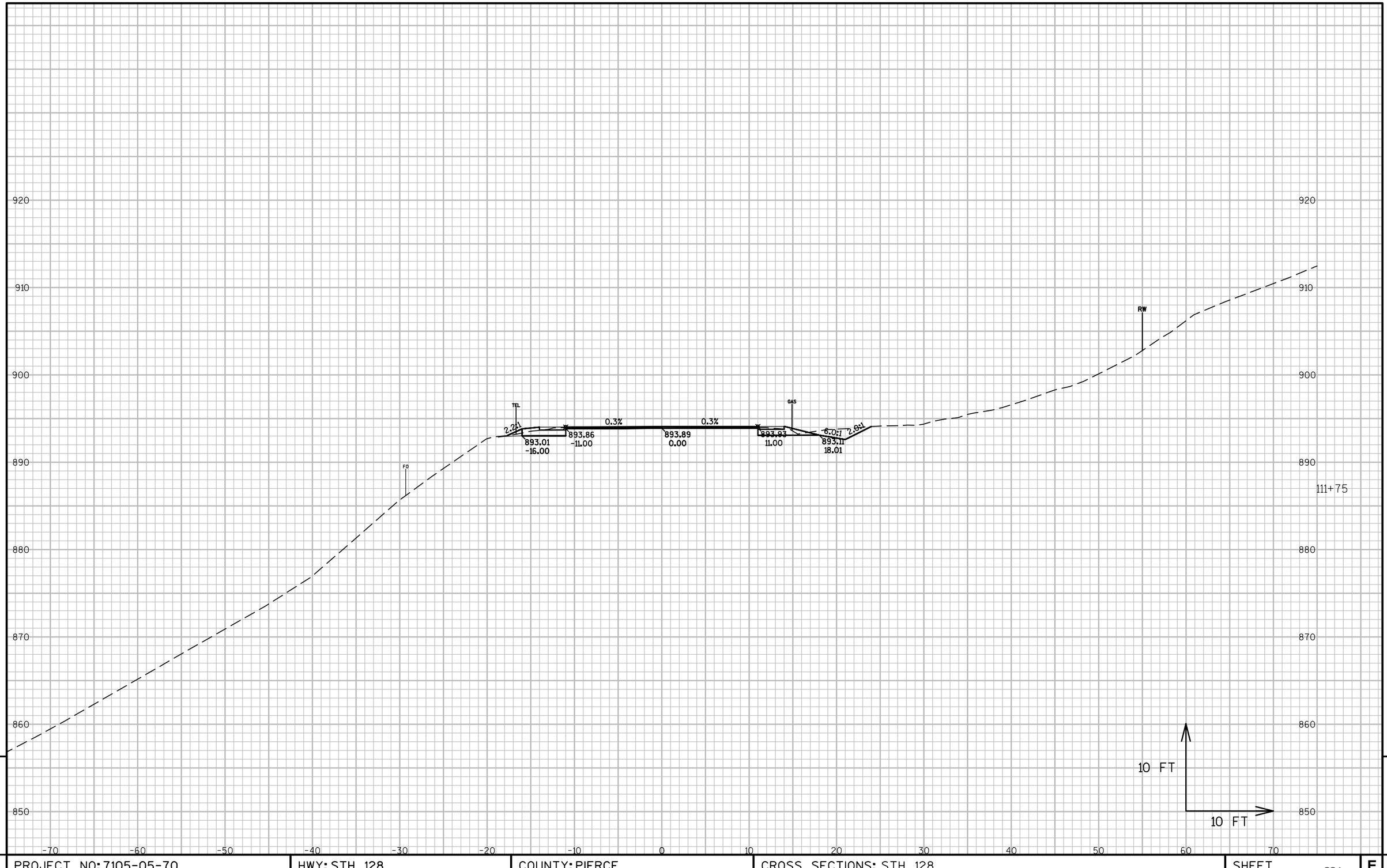
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 220	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090101-XS-128-101-111.DWG
LAYOUT NAME - 185

PLOT DATE : 7/29/2016 1:03 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

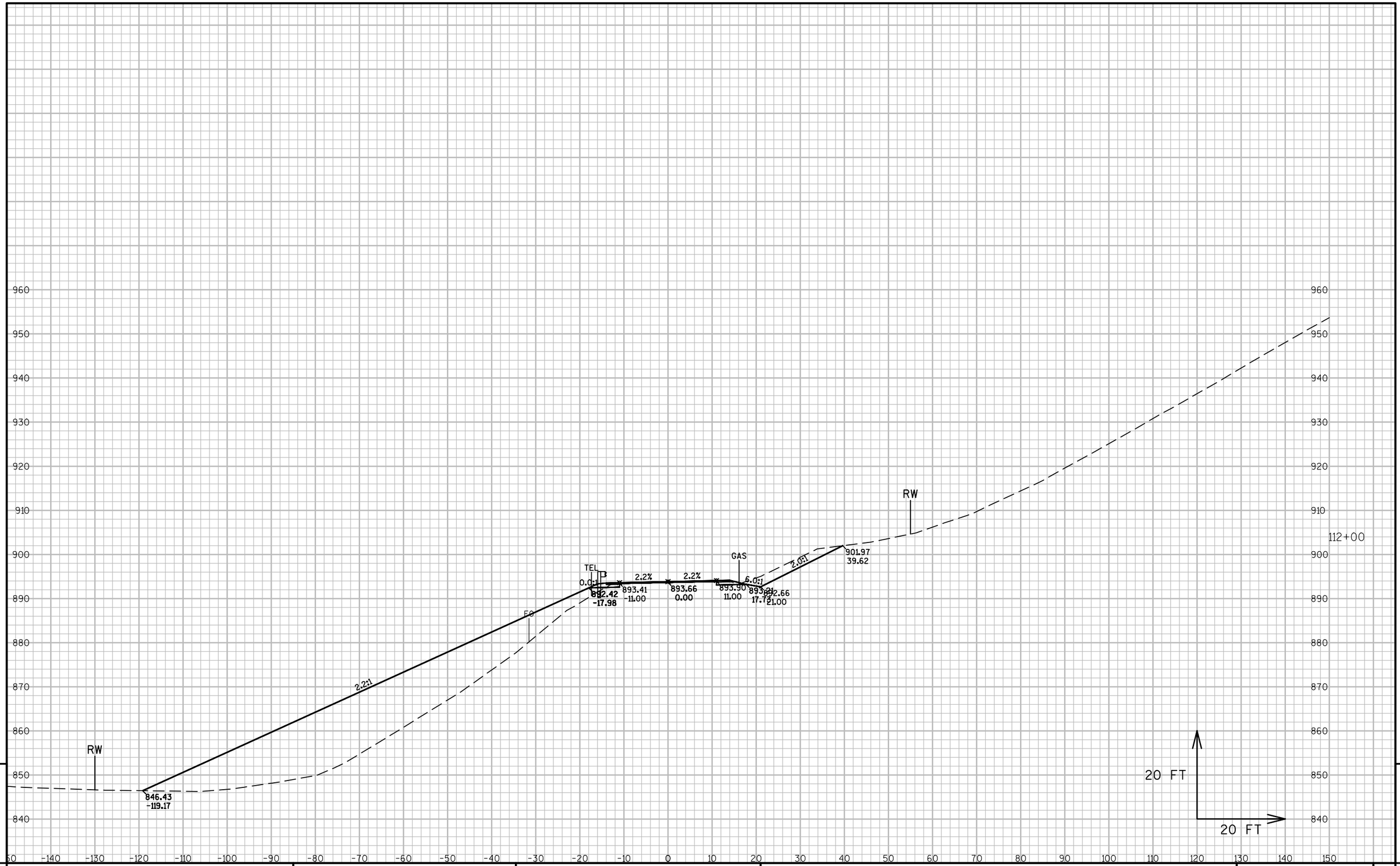


9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 221	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090101-XS-128-101-111.DWG
LAYOUT NAME - 185
PLOT DATE : 7/29/2016 1:04 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 222	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090102-XS-128-112-114.DWG
LAYOUT NAME - 1
PLOT DATE : 7/29/2016 1:14 PM
PLOT BY : ADAM OSYPOWSKI
PLOT NAME :
PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

960
950
940
930
920
910
900
890
880
870
860
850
840

RW
2.2:1
848.49
-111.13
FO
TEL
6.0:1
890.75
-18.16
891.88
-11.00
4.1%
892.33
0.00
4.1%
892.78
11.00
GAS
6.0:1
892.91
17.49
2.0:1
891.62
21.00
898.25
34.26
RW
112+50

20 FT
20 FT

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

9 9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 223	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090102-XS-128-112-114.DWG
LAYOUT NAME - 2
PLOT DATE : 7/29/2016 1:15 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1:20_XREF

960
950
940
930
920
910
900
890
880
870
860
850
840

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

RW

850.45
-104.12

2.2:1

FO

TEL

2.0:1

889.52
-18.16

890.65
-11.00

4.1%

891.10
0.00

4.1%

891.55
11.00

GAS

6.0:1

890.88
17.49

890.40
21.00

2.0:1

899.31
38.82

RW

113+00

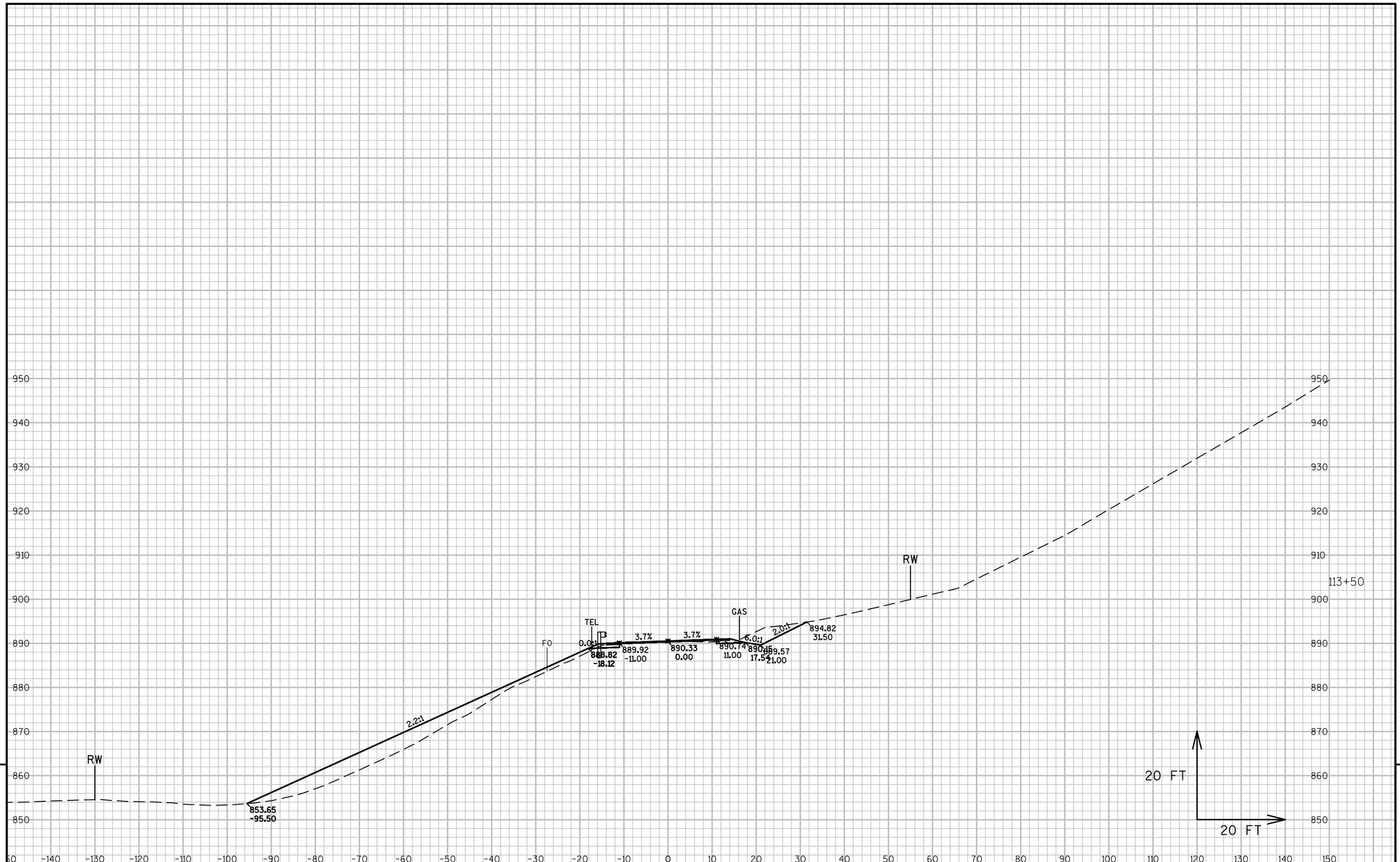
20 FT

20 FT

9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 224	E



9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 225	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090102-XS-128-112-114.DWG
LAYOUT NAME - 4

PLOT DATE : 7/29/2016 1:16 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1:20_XREF



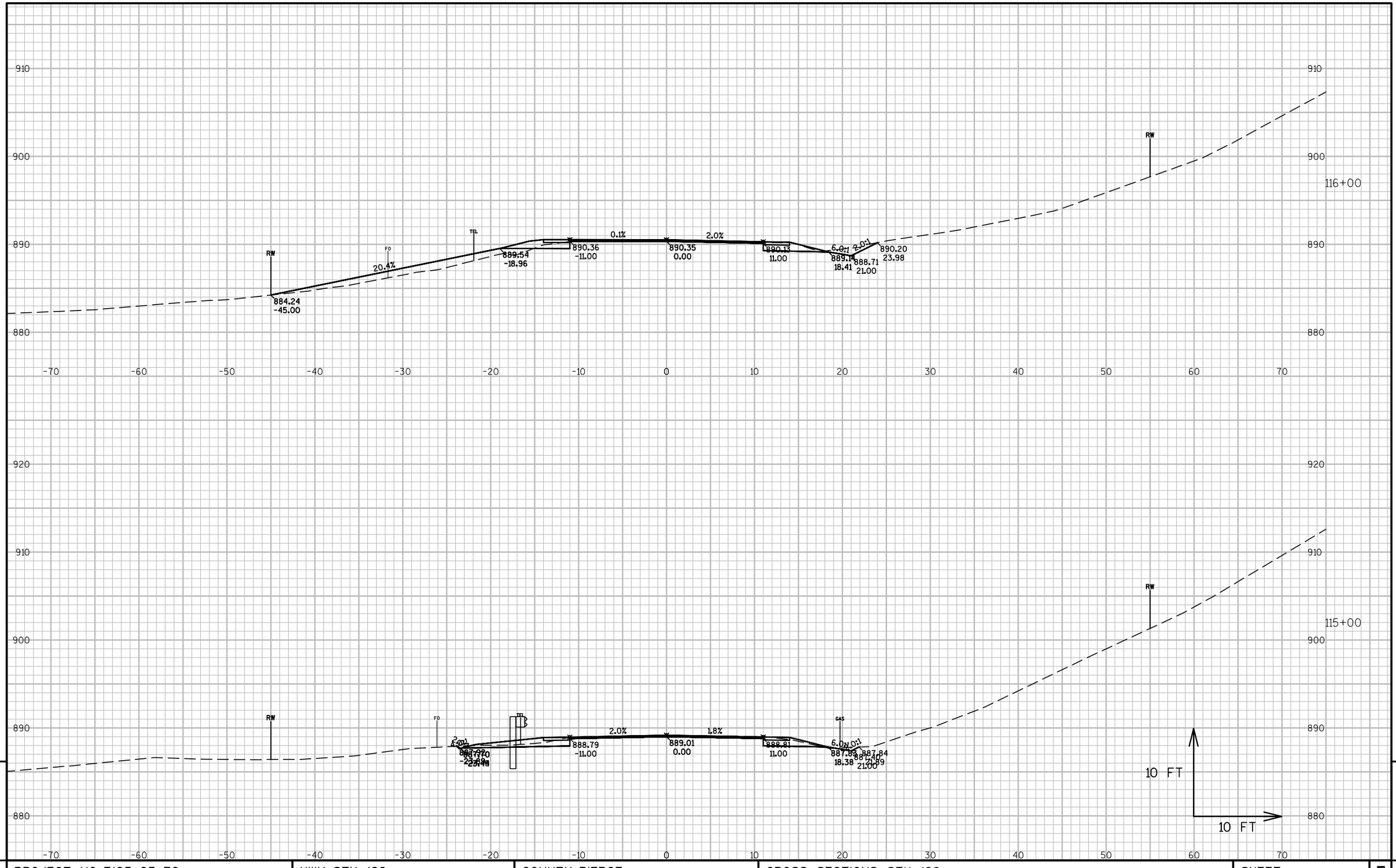
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 226	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 179

PLOT DATE : 7/29/2016 1:09 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

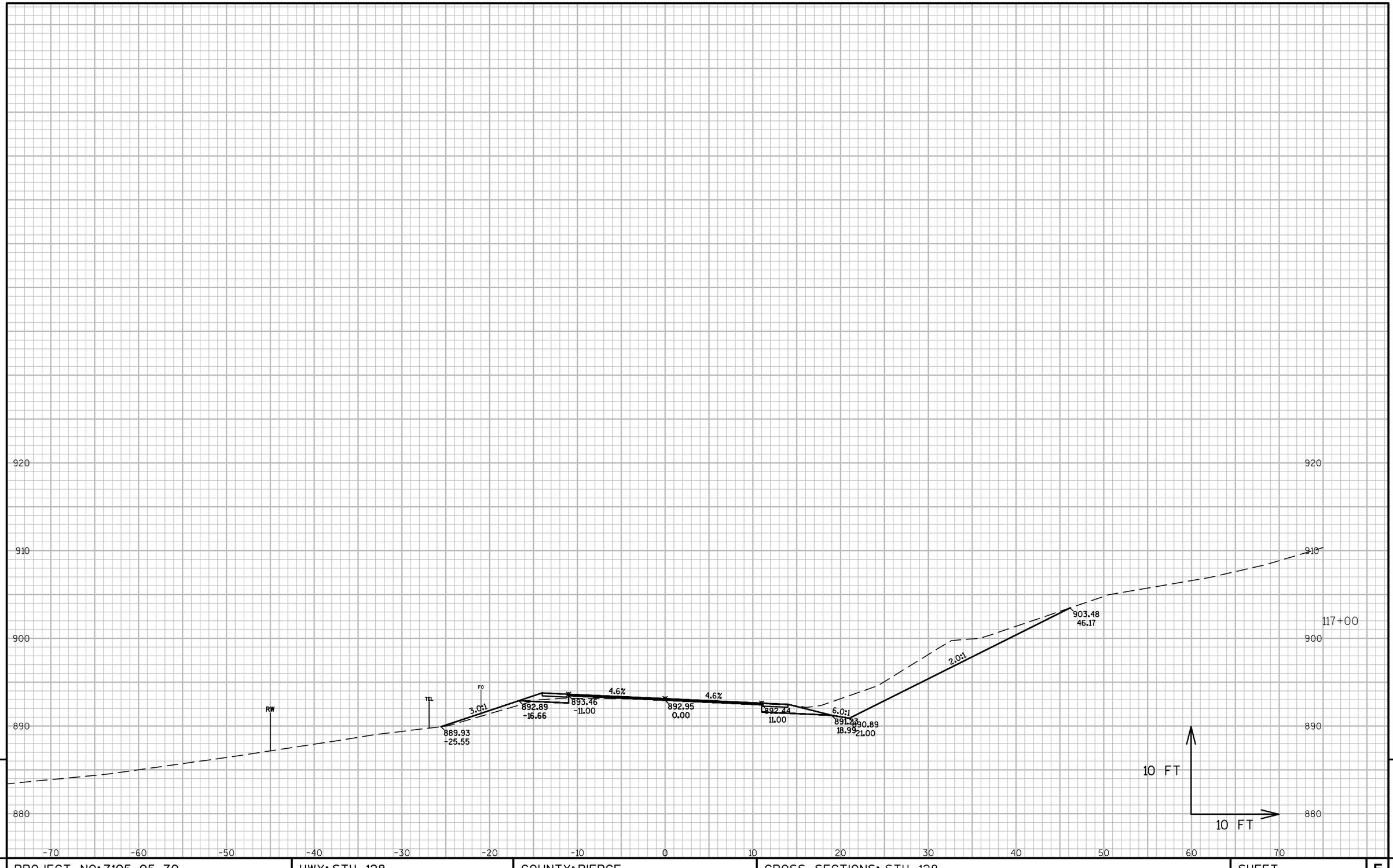


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 227	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 180

PLOT DATE : 7/29/2016 1:10 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

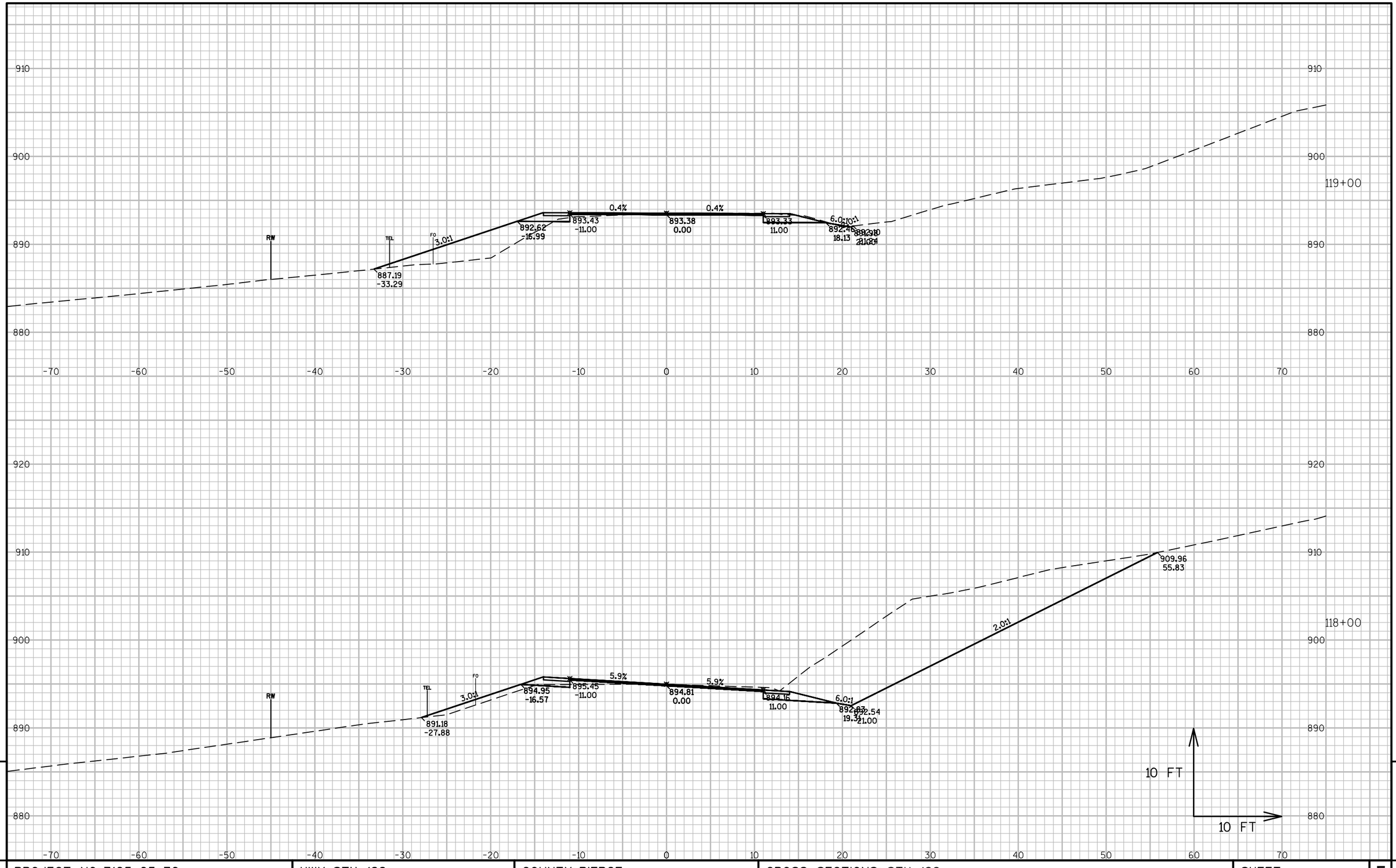
WISDOT/CADDS SHEET 49



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 228	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 181

PLOT DATE : 7/29/2016 1:11 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

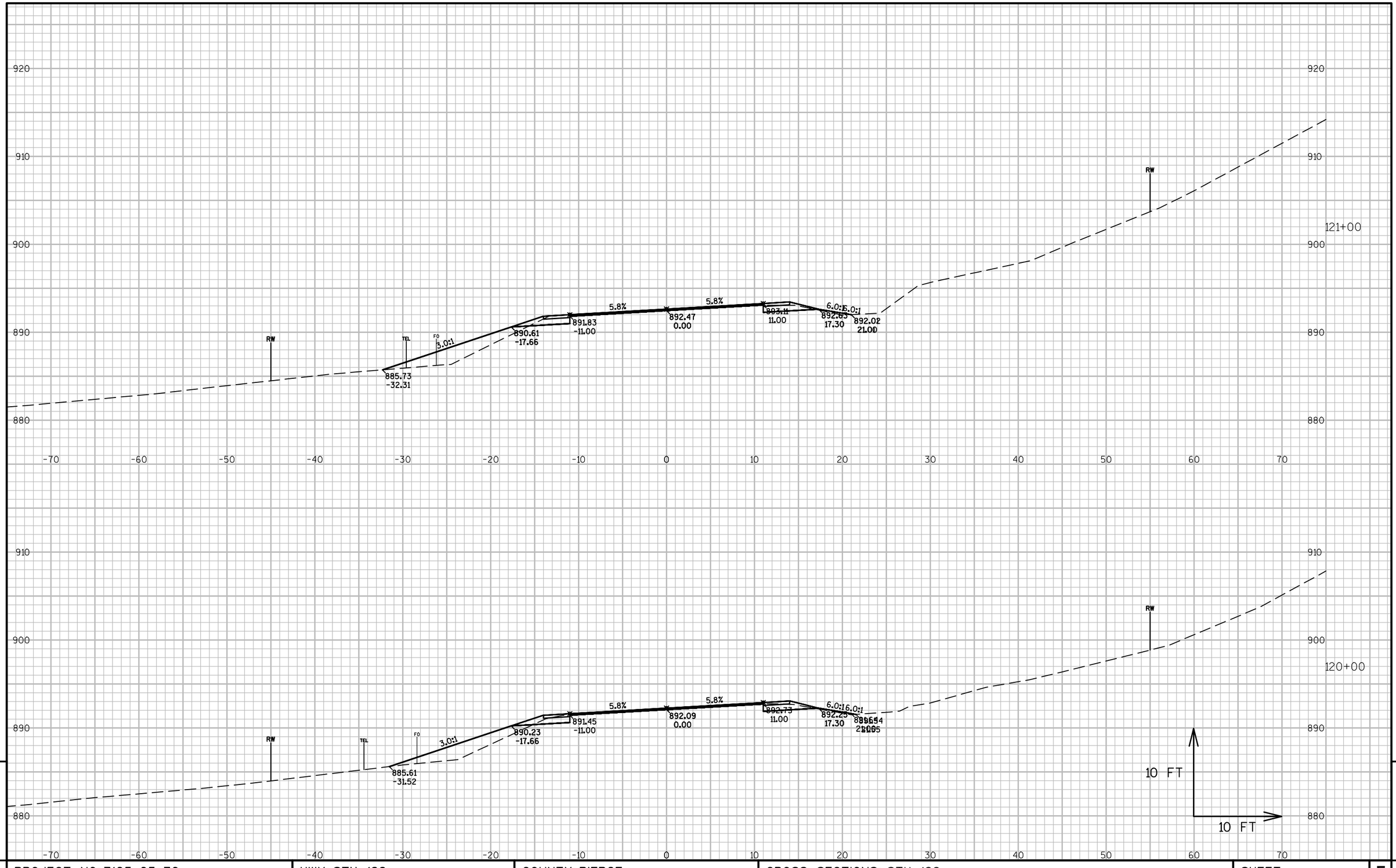


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 229	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 182

PLOT DATE : 7/29/2016 1:11 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

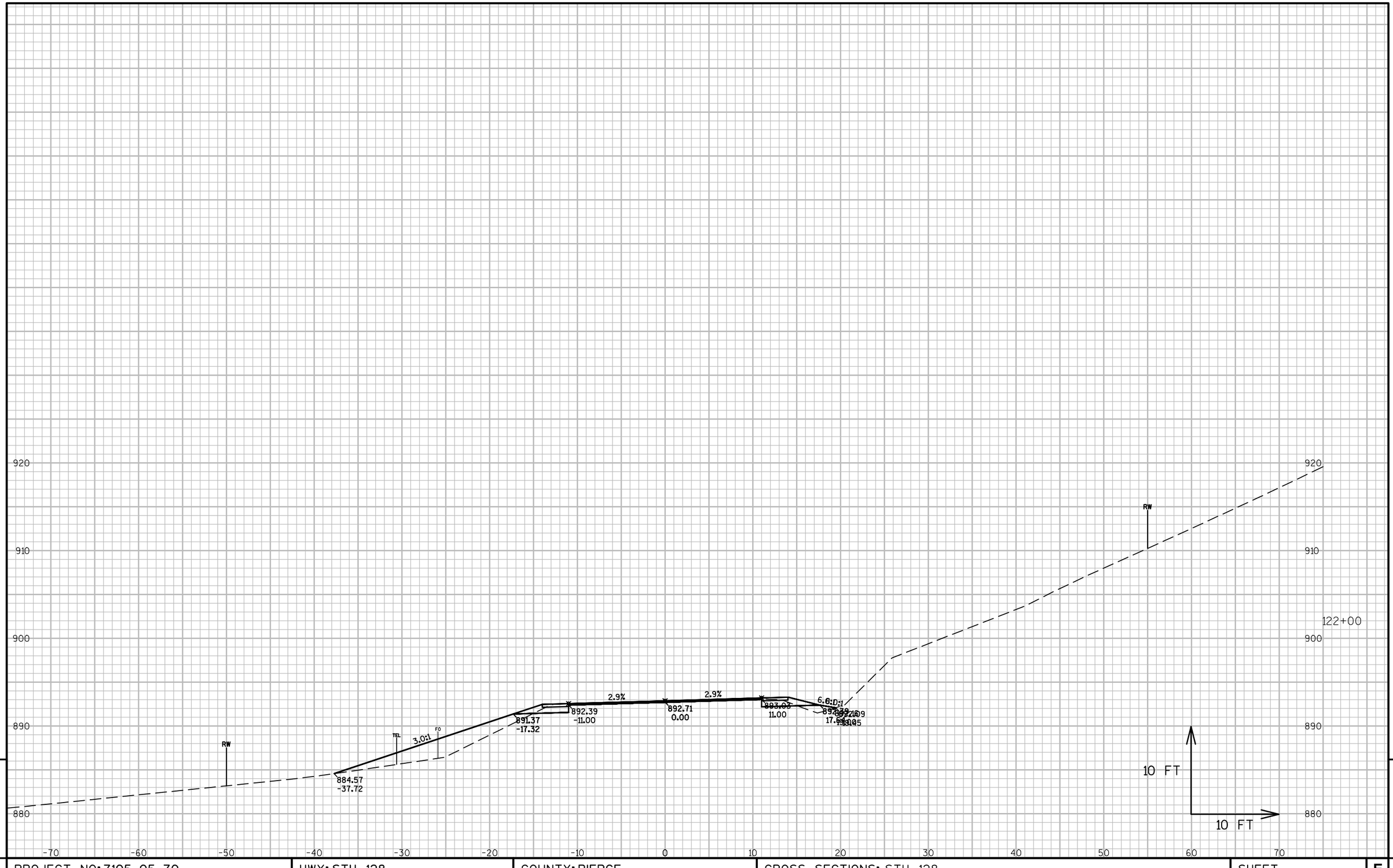
WISDOT/CADDS SHEET 49



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 230	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 183

PLOT DATE : 7/29/2016 1:12 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



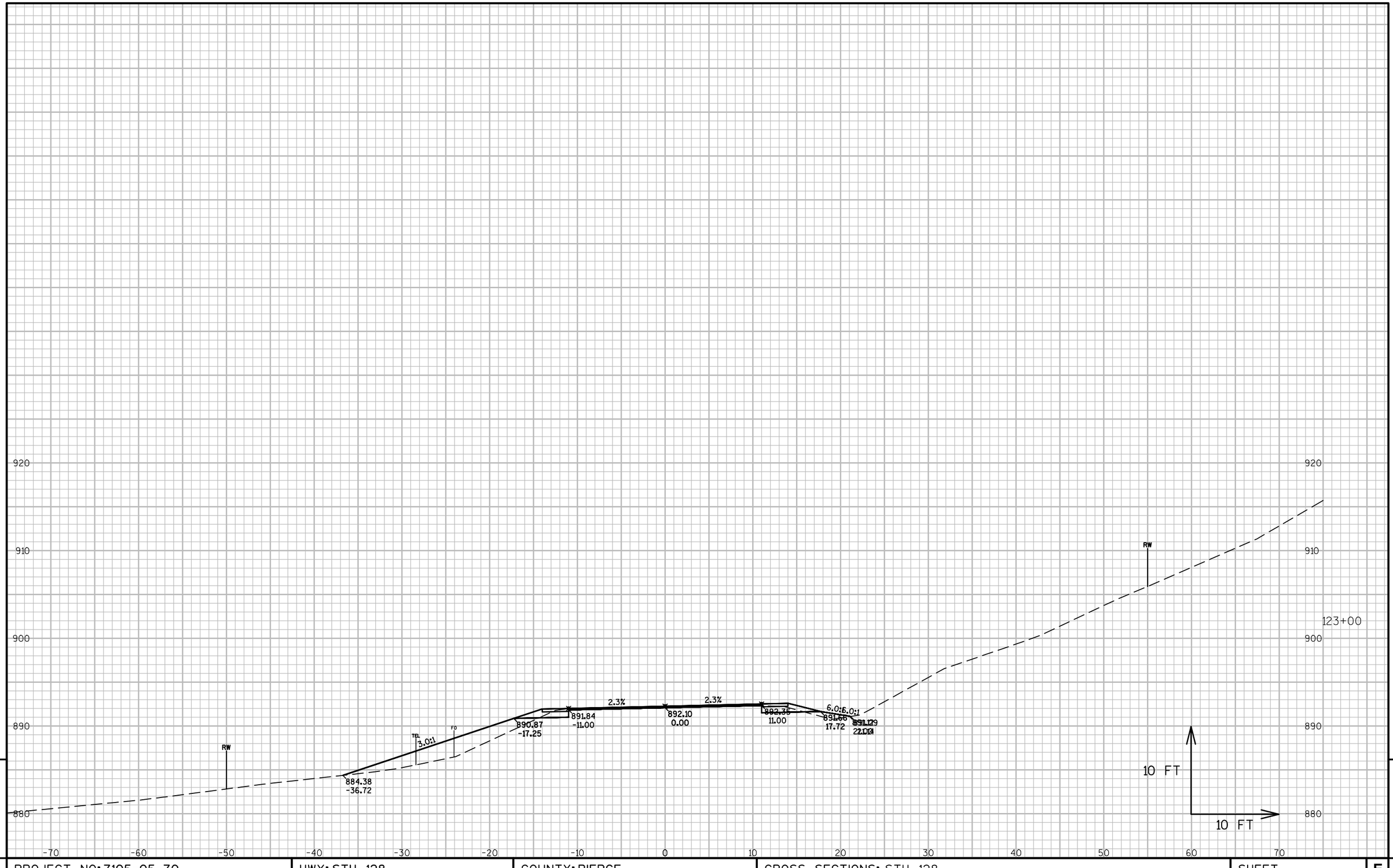
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 231	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 184

PLOT DATE : 7/29/2016 1:13 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



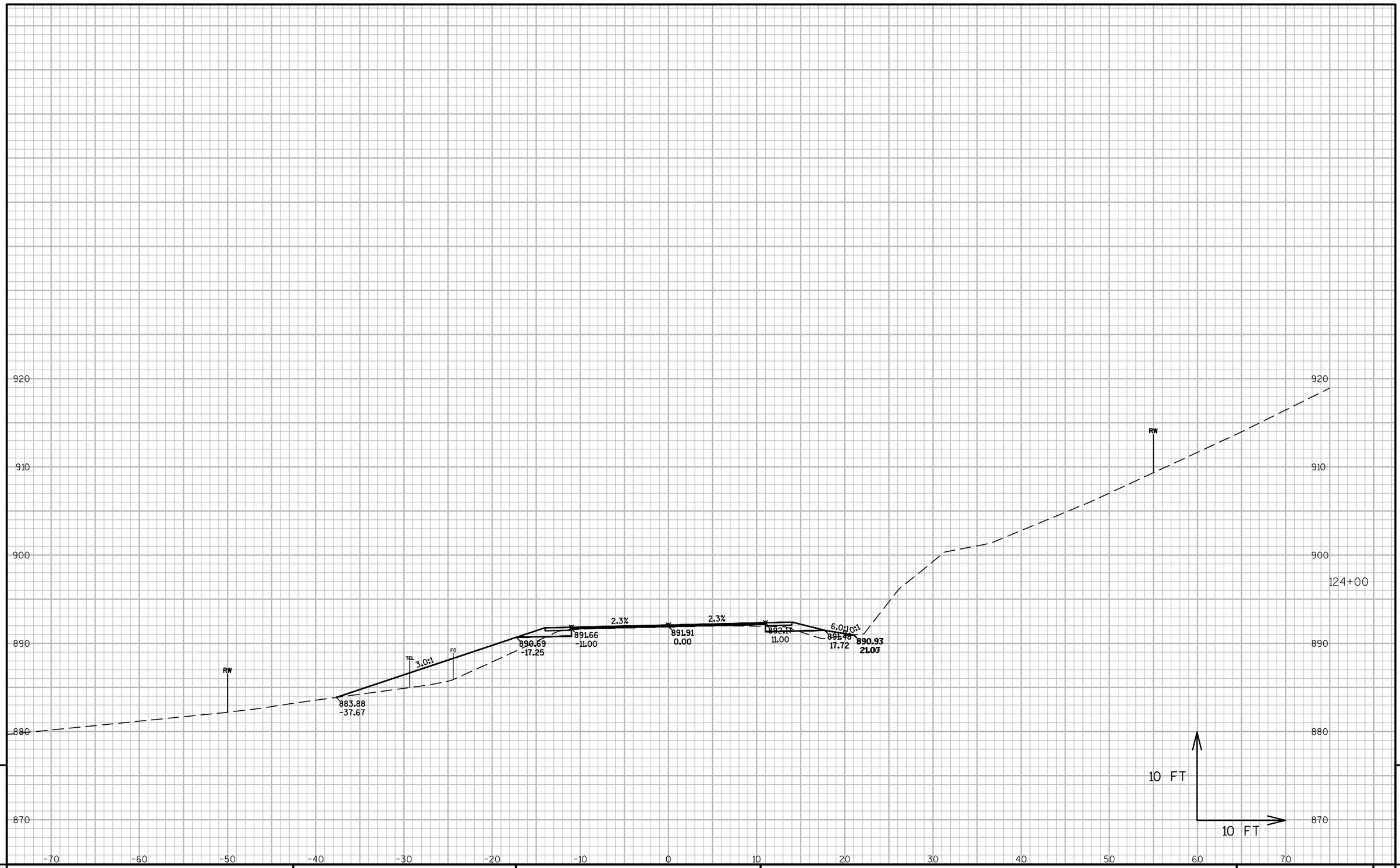
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 232	E

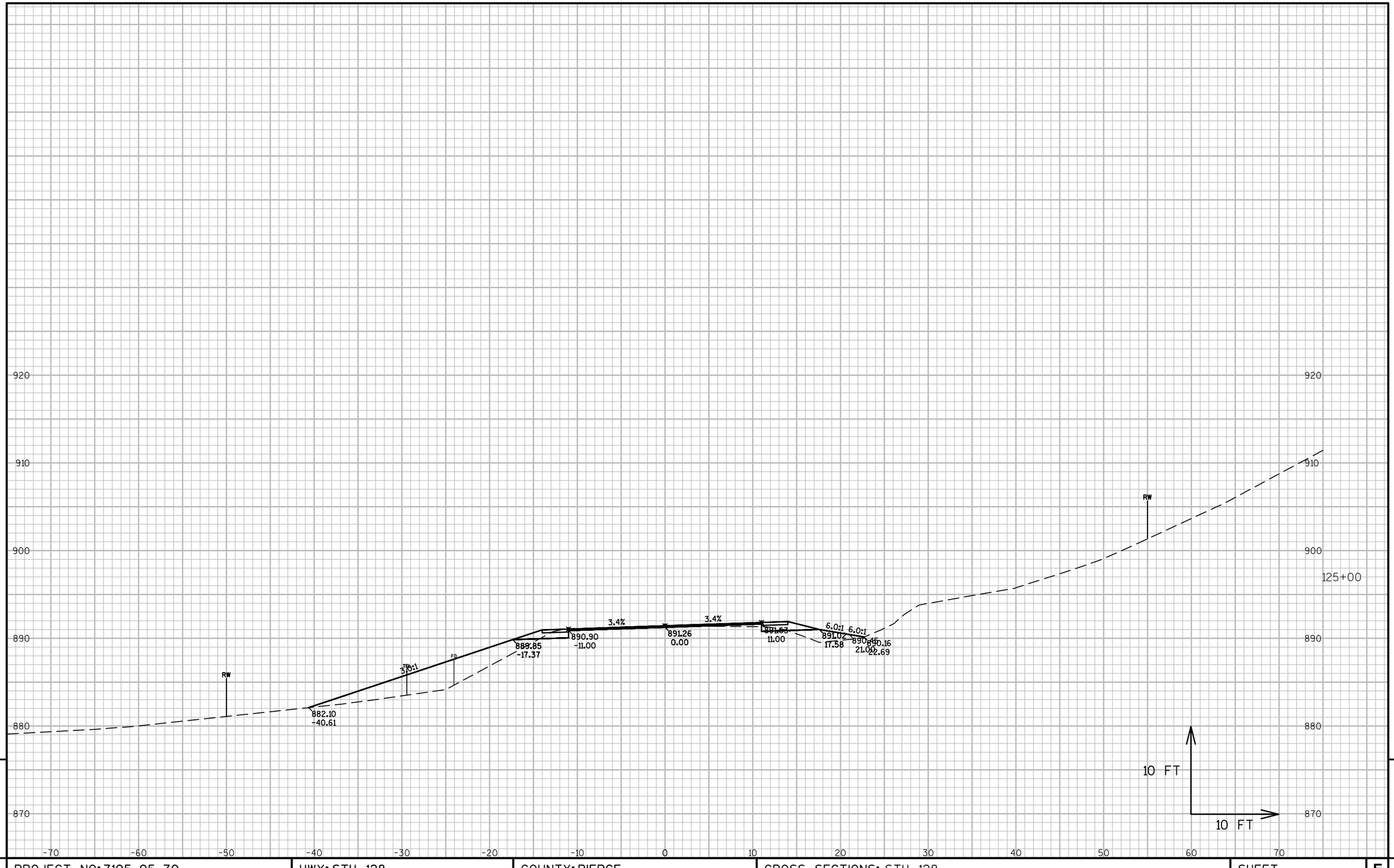
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 185

PLOT DATE : 7/29/2016 1:14 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



9 9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 233	E

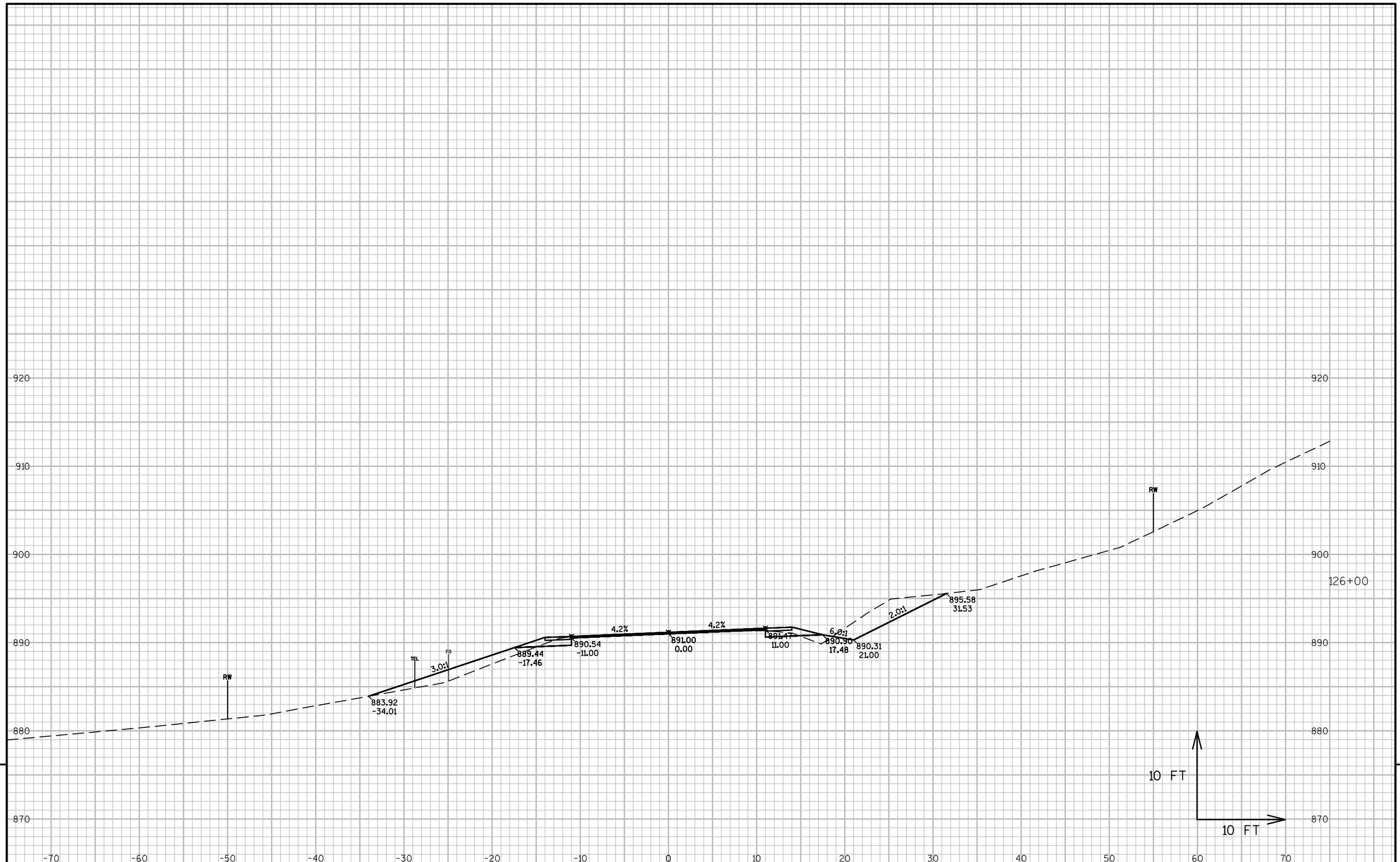


9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 234	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 187
PLOT DATE : 7/29/2016 1:15 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



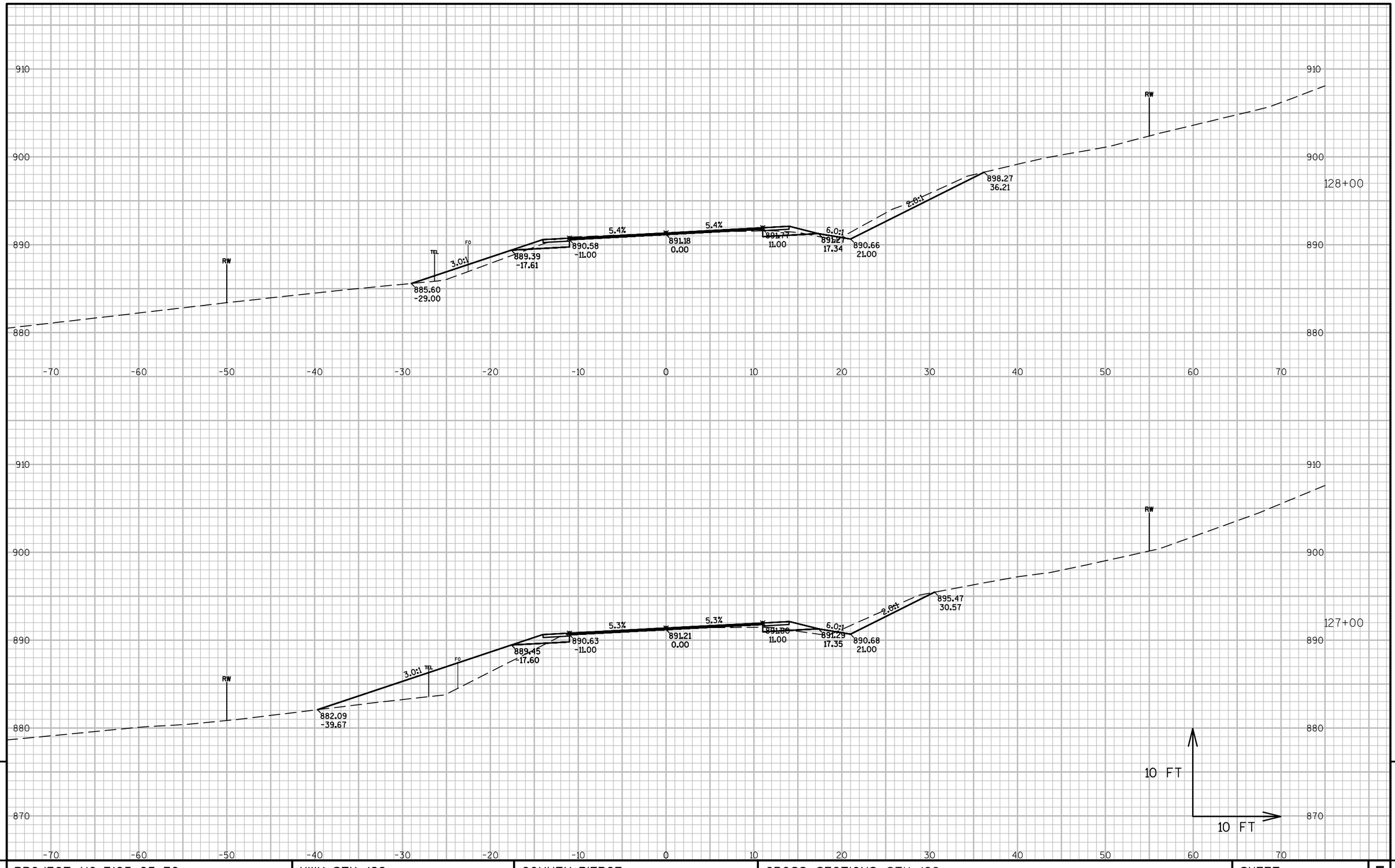
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 235	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 188

PLOT DATE : 7/29/2016 1:16 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

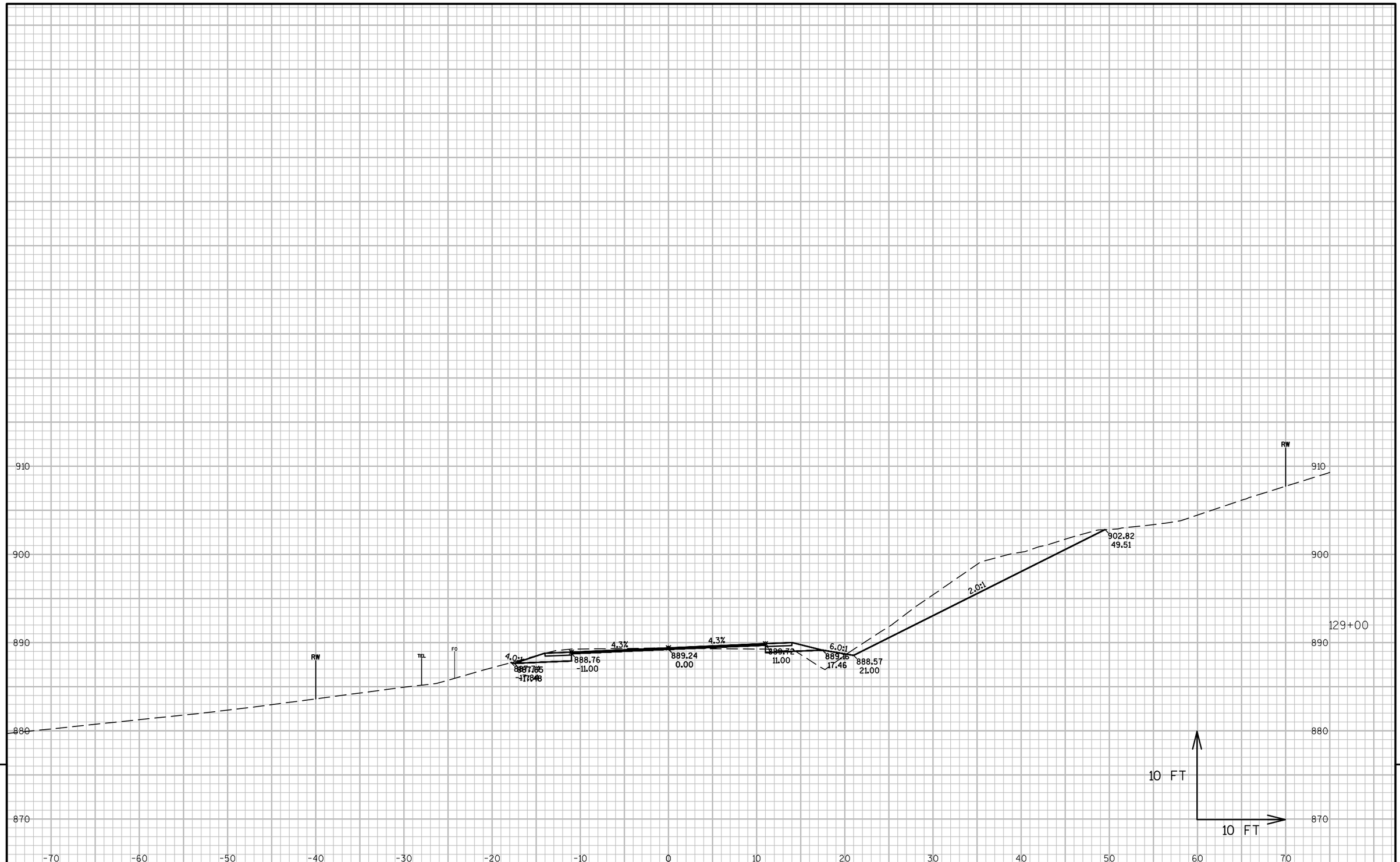


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 236 E

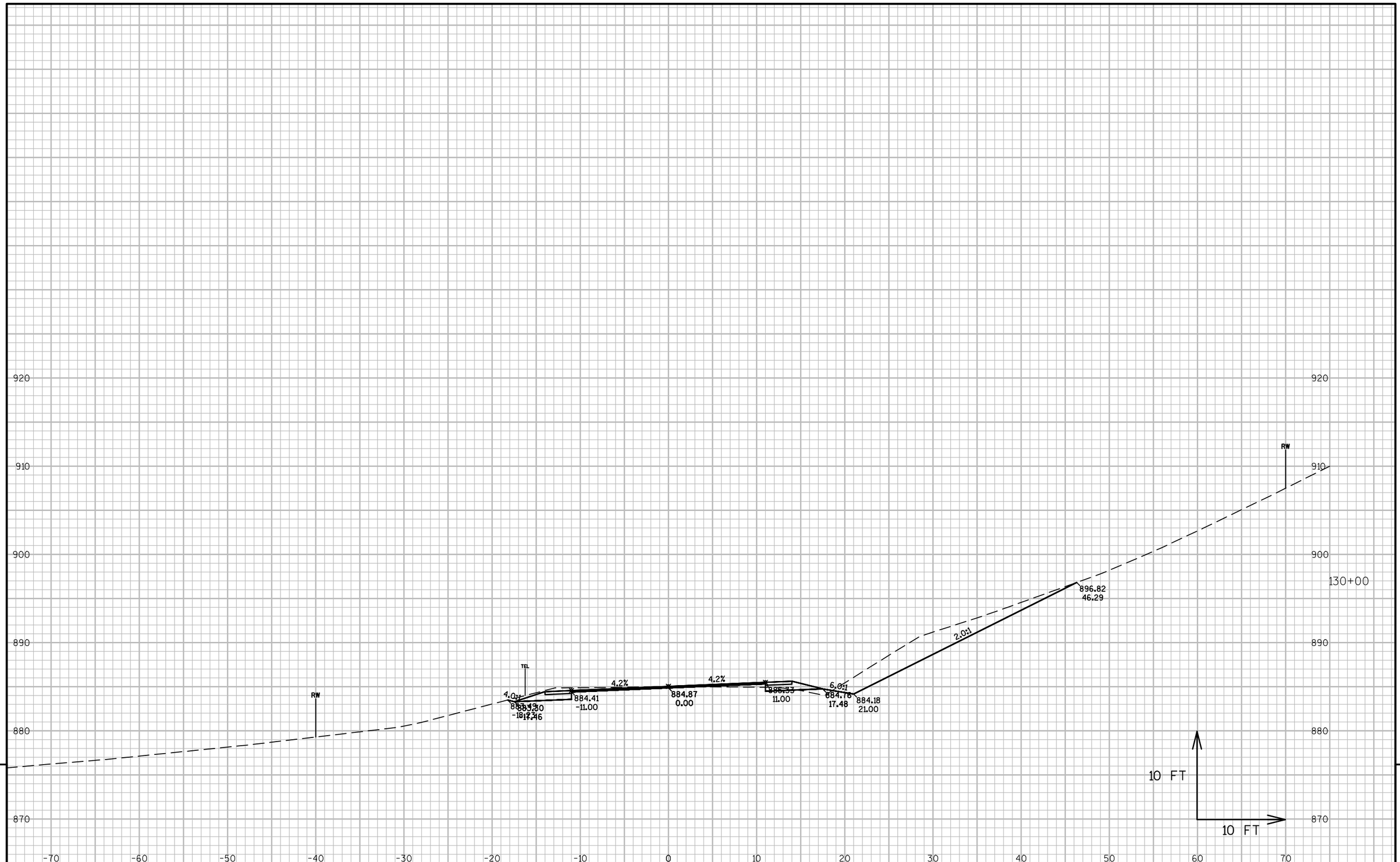
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 189

PLOT DATE : 7/29/2016 1:17 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



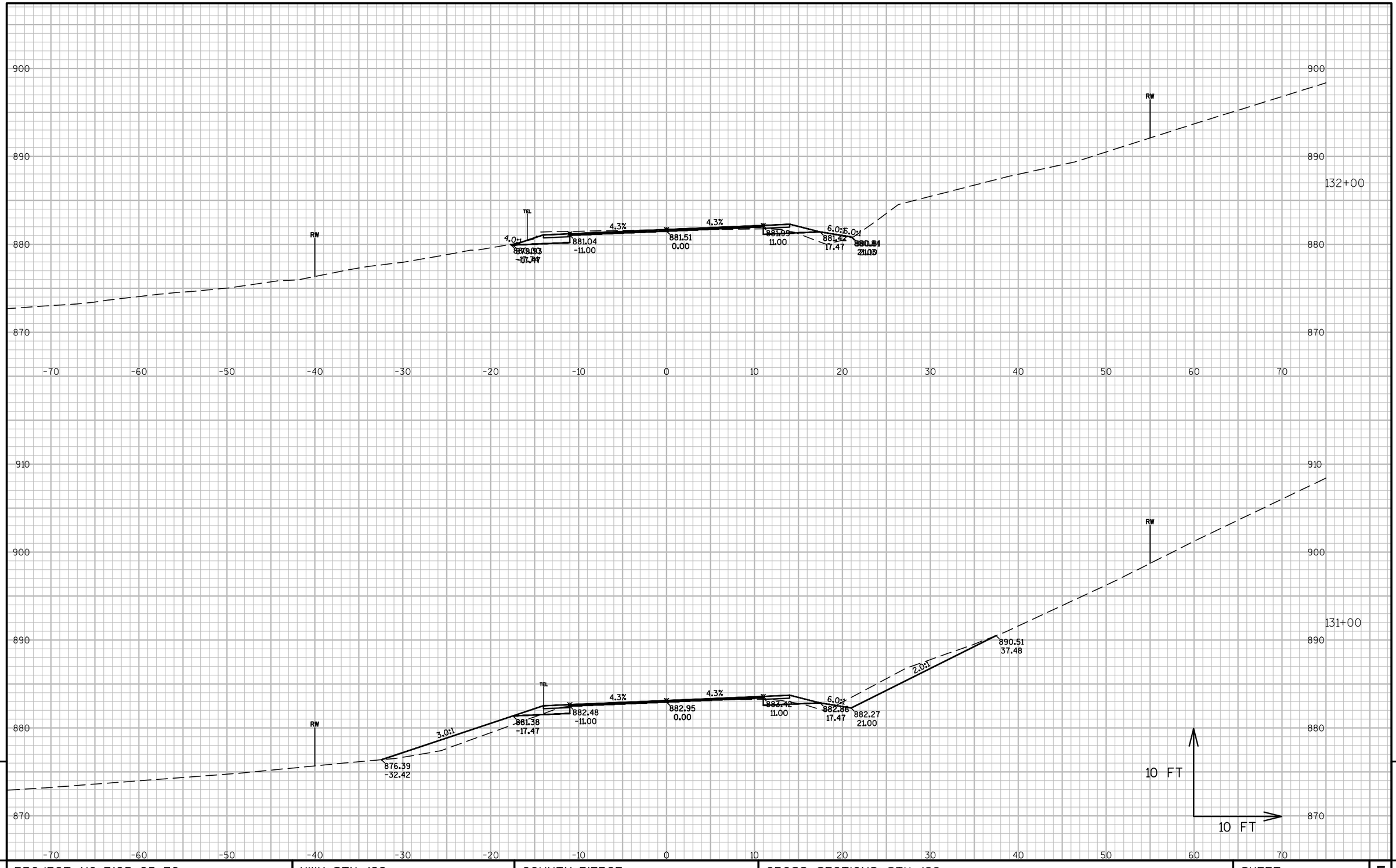
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 237 E



9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 238	E

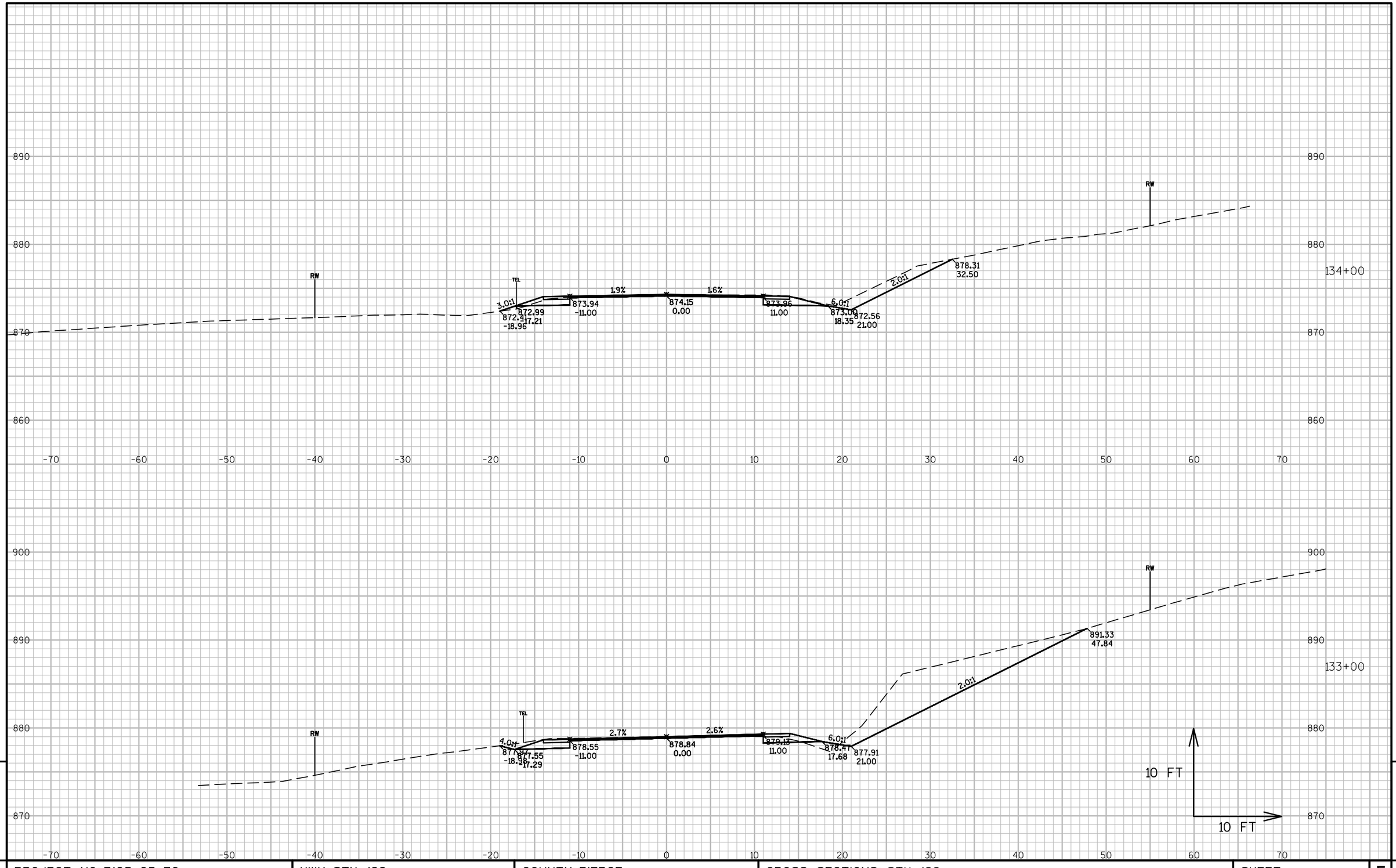


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 239	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 192

PLOT DATE : 7/29/2016 1:19 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



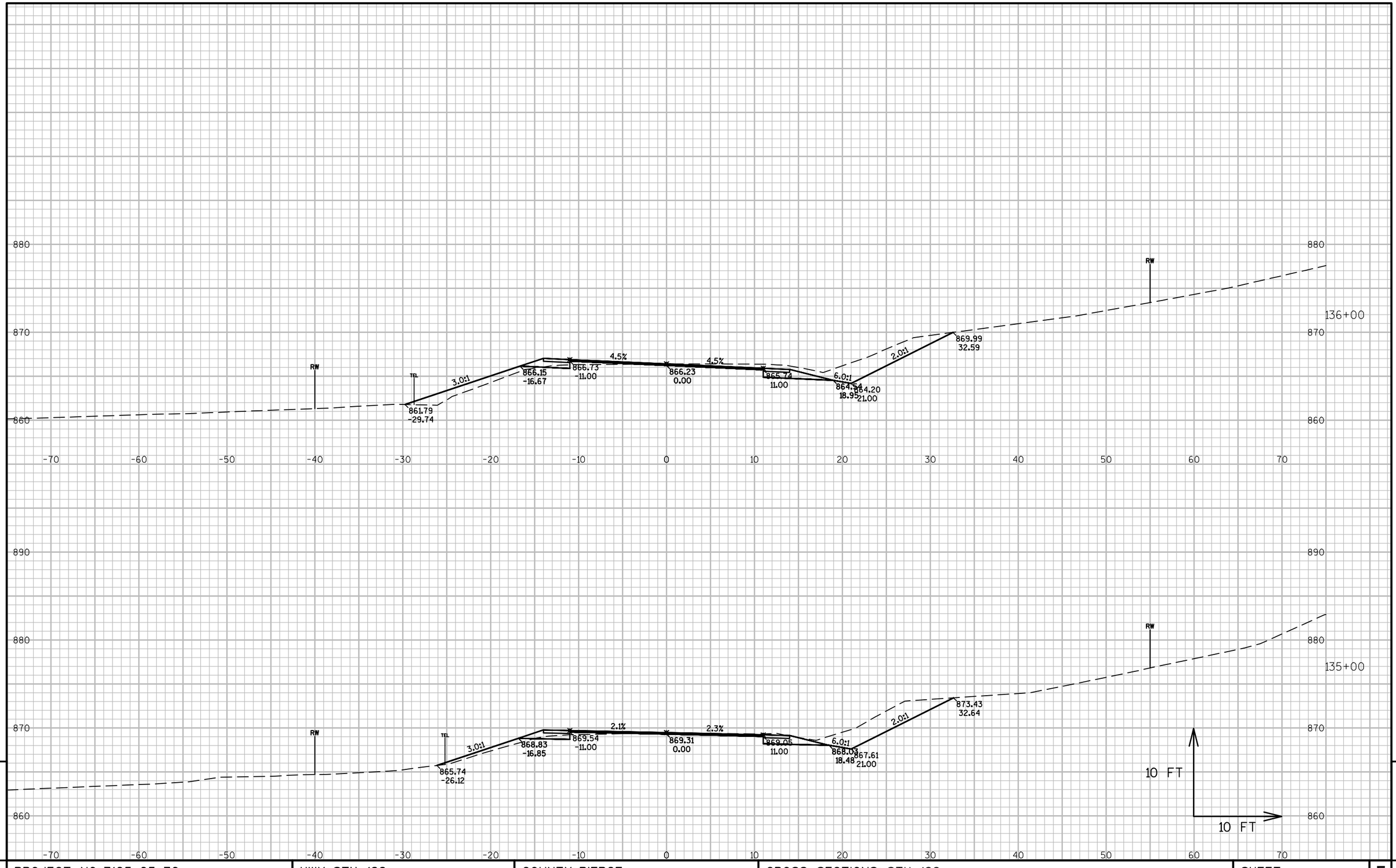
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9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 240	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 193

PLOT DATE : 7/29/2016 1:20 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

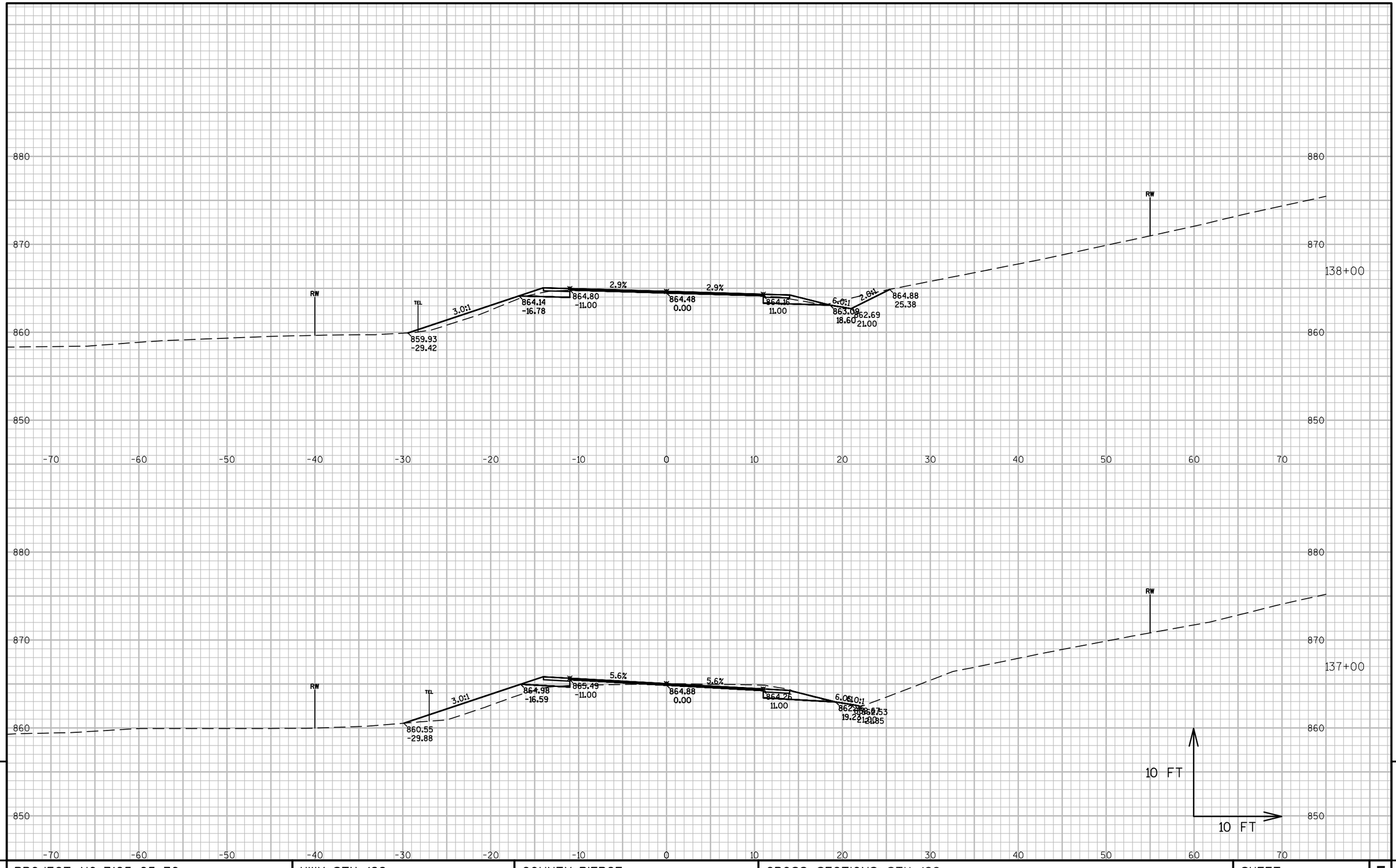
9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 241	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 194

PLOT DATE : 7/29/2016 1:21 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

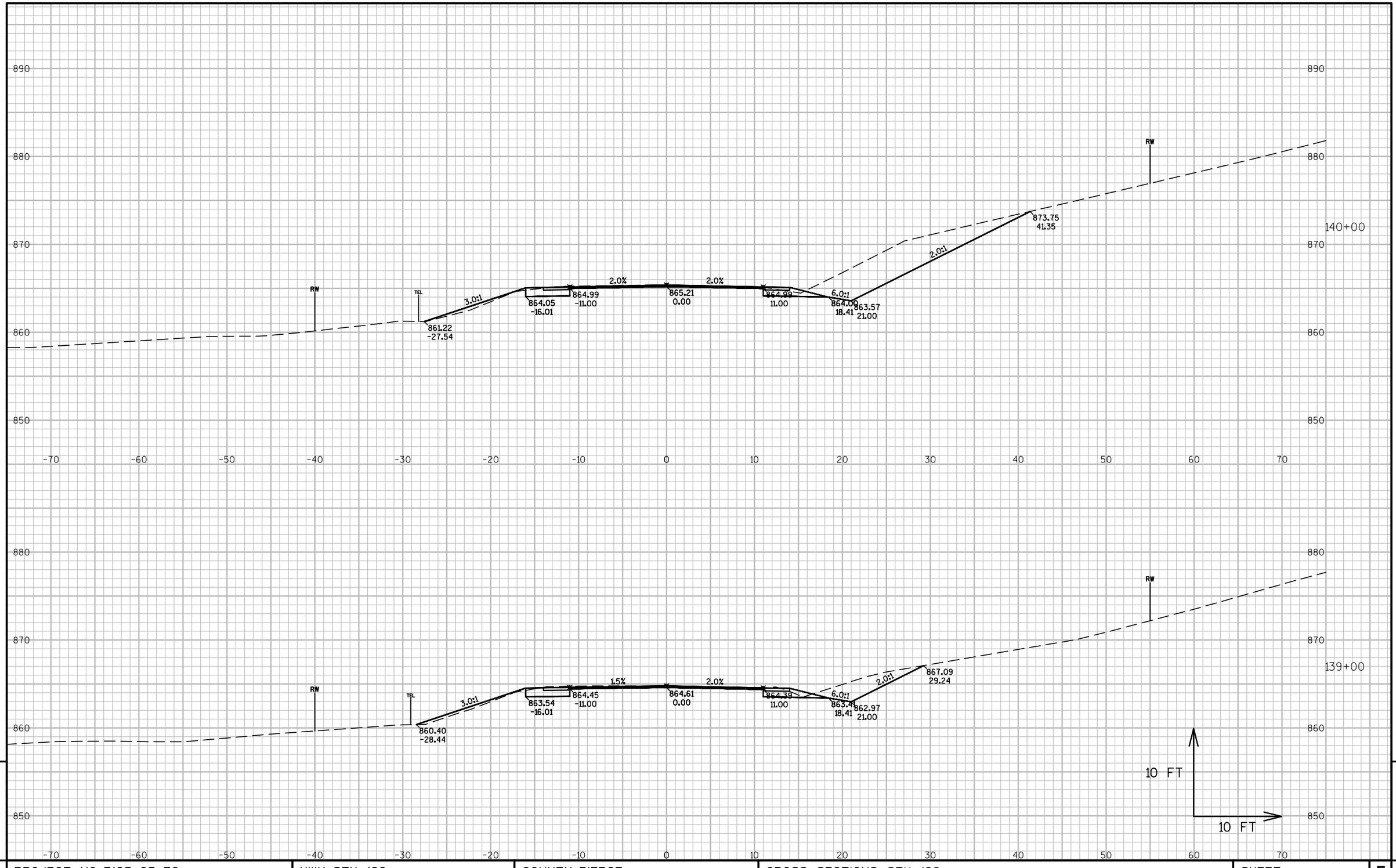


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 242	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 195

PLOT DATE : 7/29/2016 1:21 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

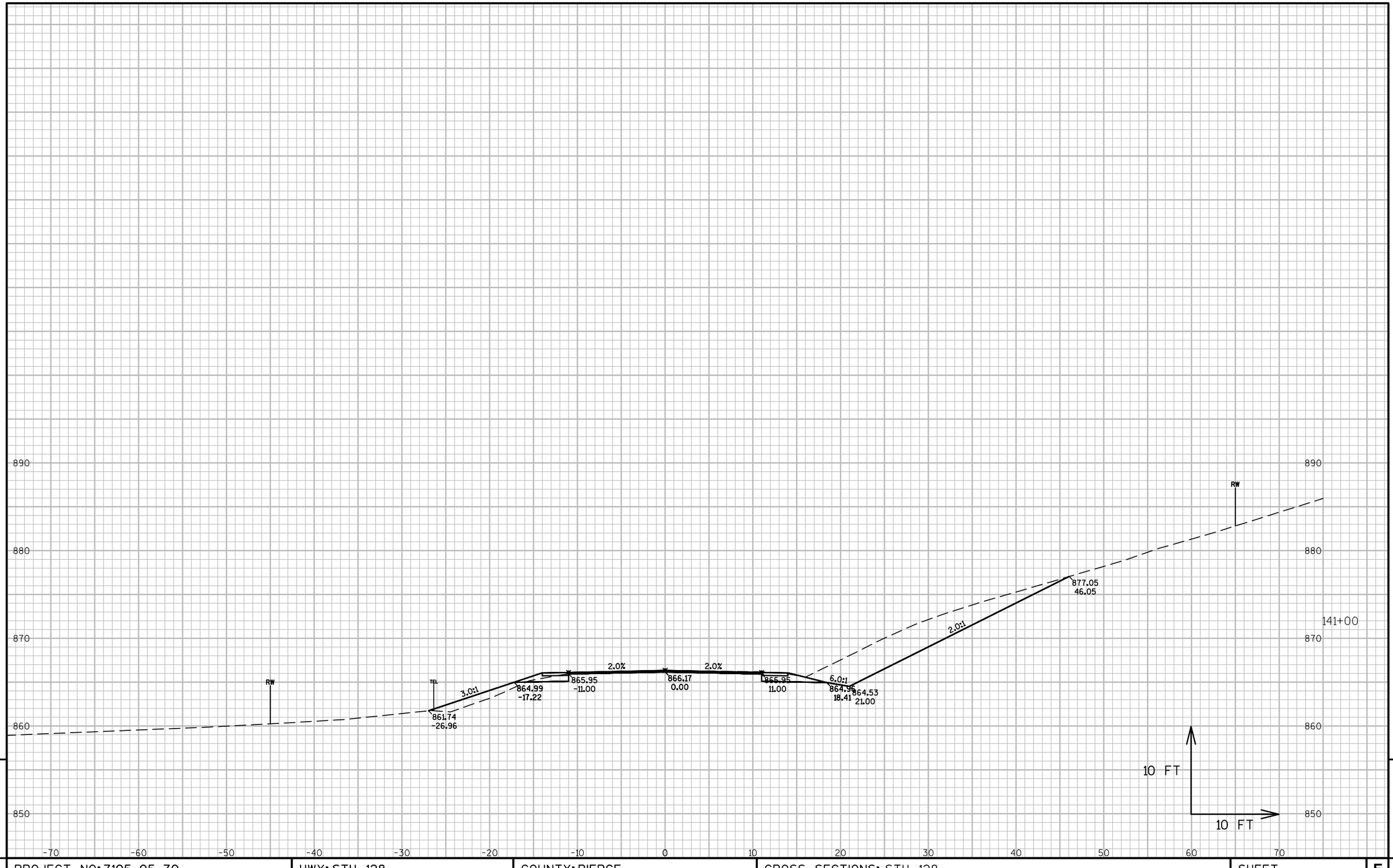


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 243	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 196

PLOT DATE : 7/29/2016 1:22 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

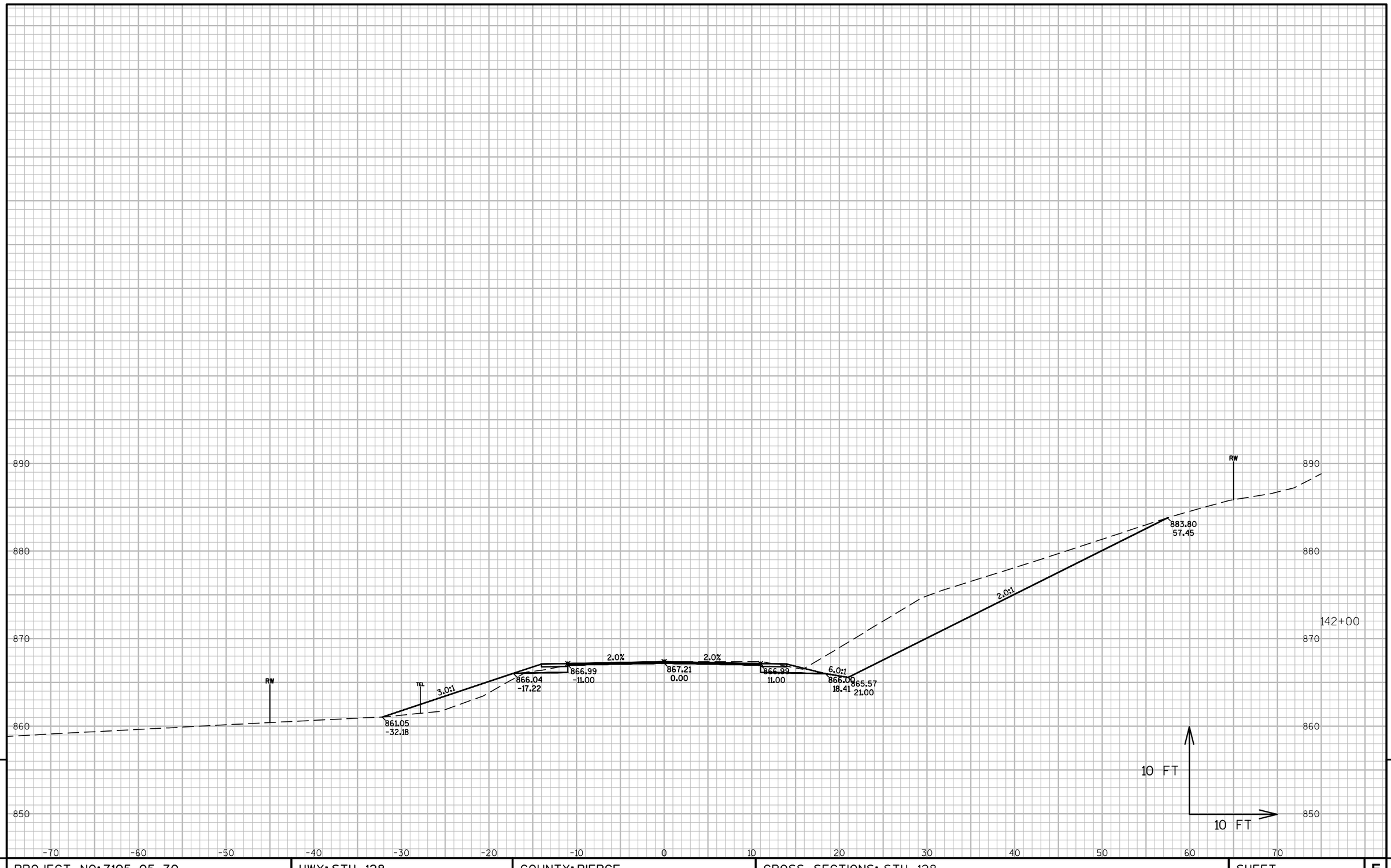
WISDOT/CADDS SHEET 49



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 244	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 197

PLOT DATE : 7/29/2016 1:23 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



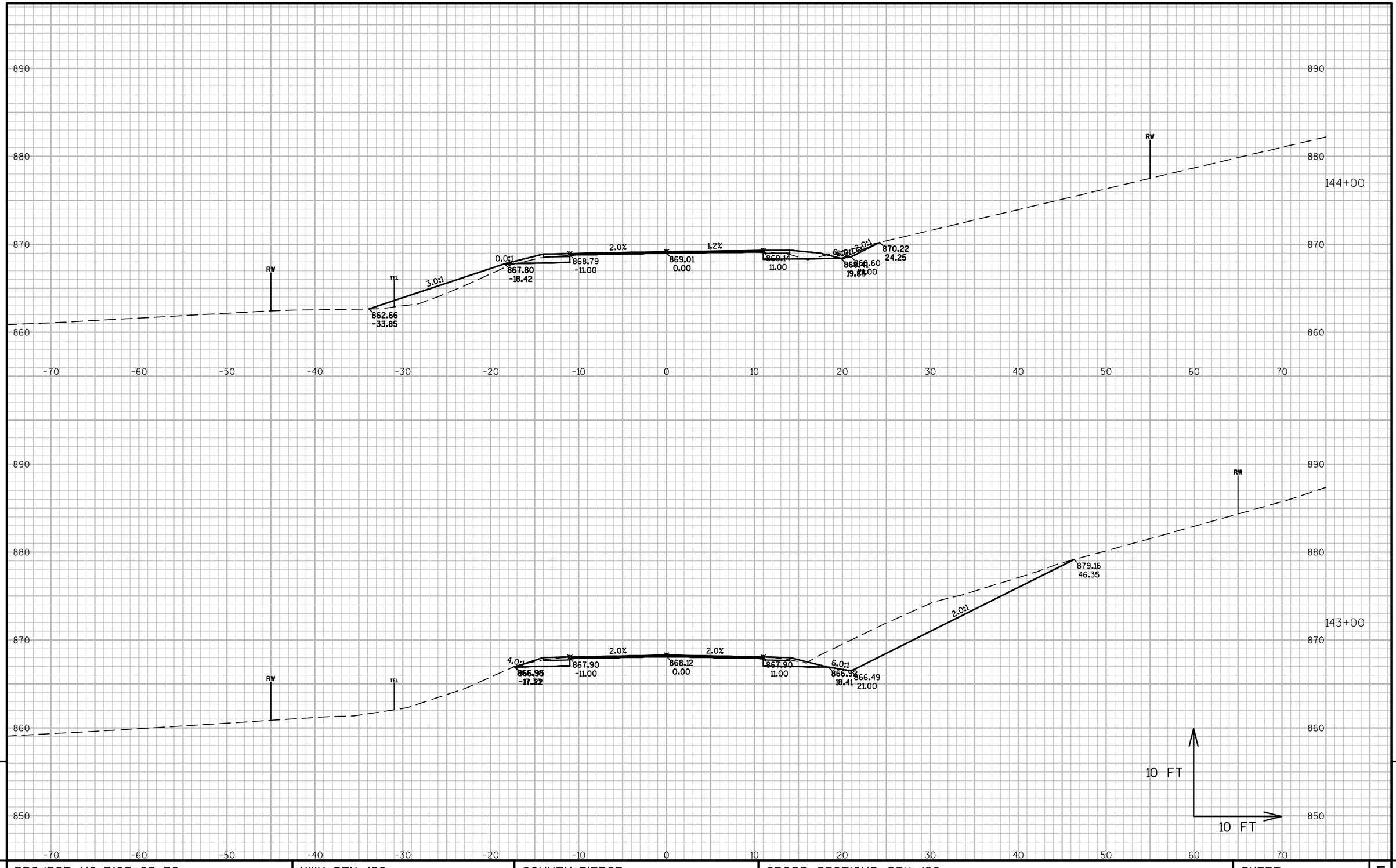
9

9

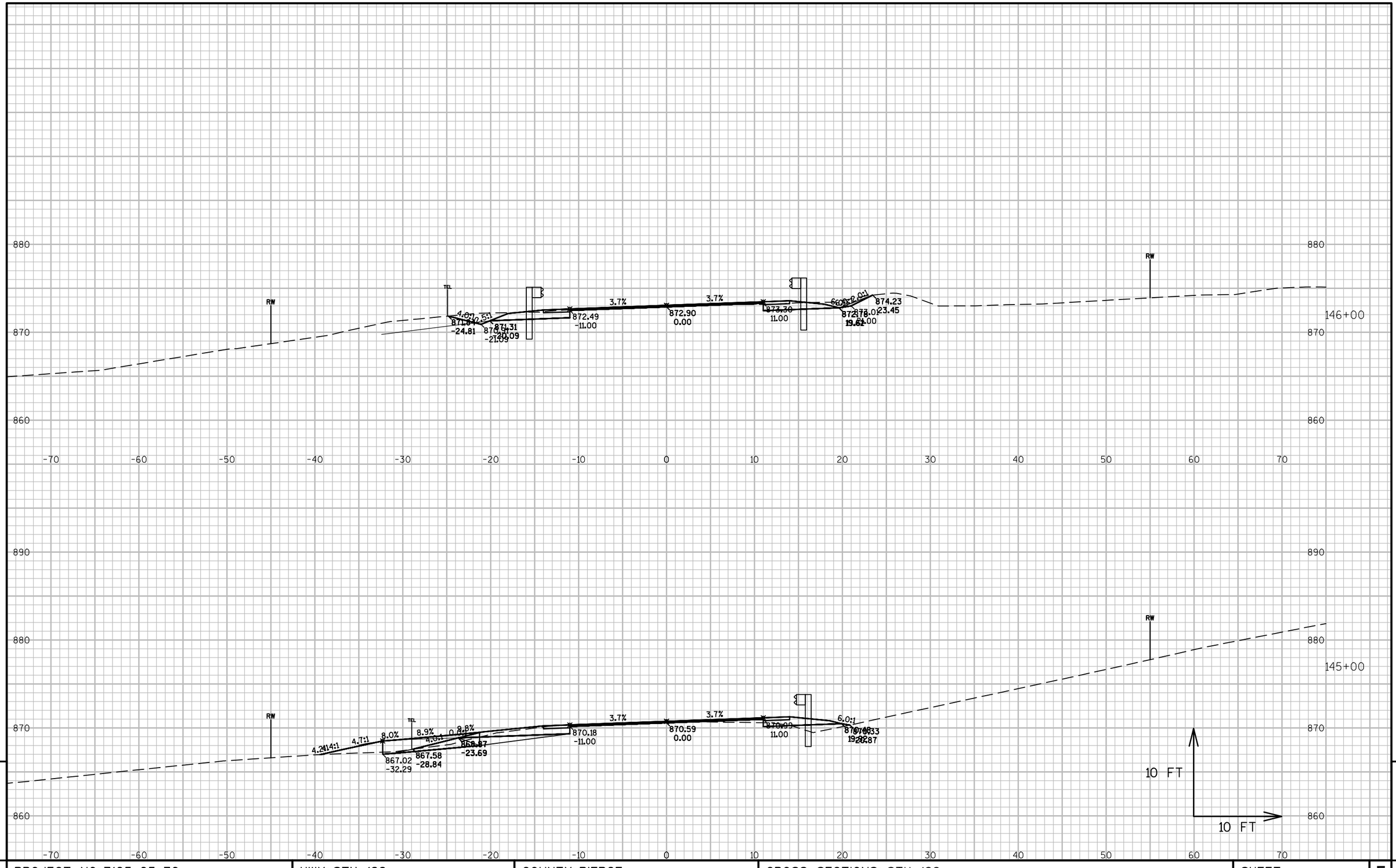
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 245	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 198

PLOT DATE : 7/29/2016 1:24 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 246	E



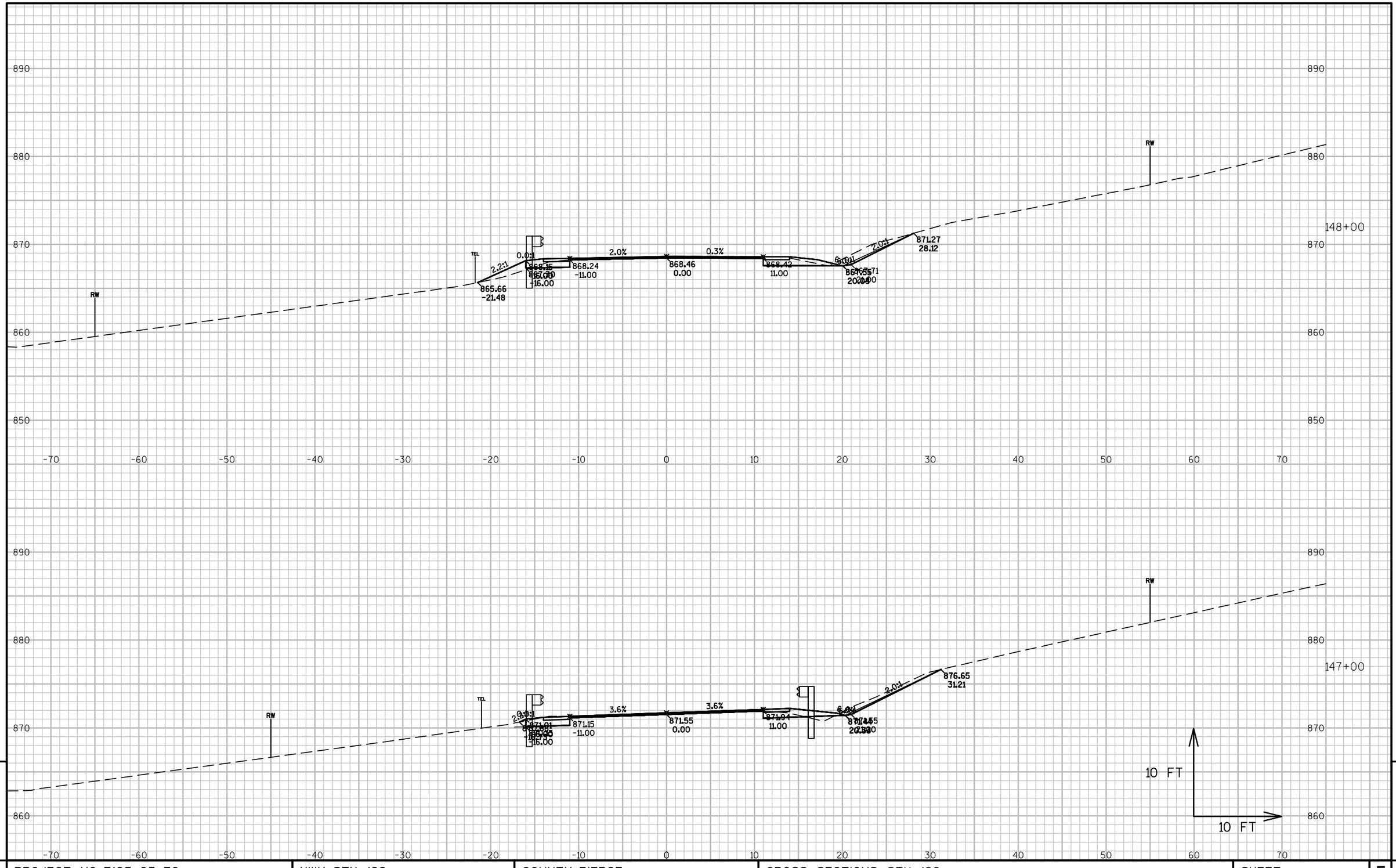
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9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 247	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 200

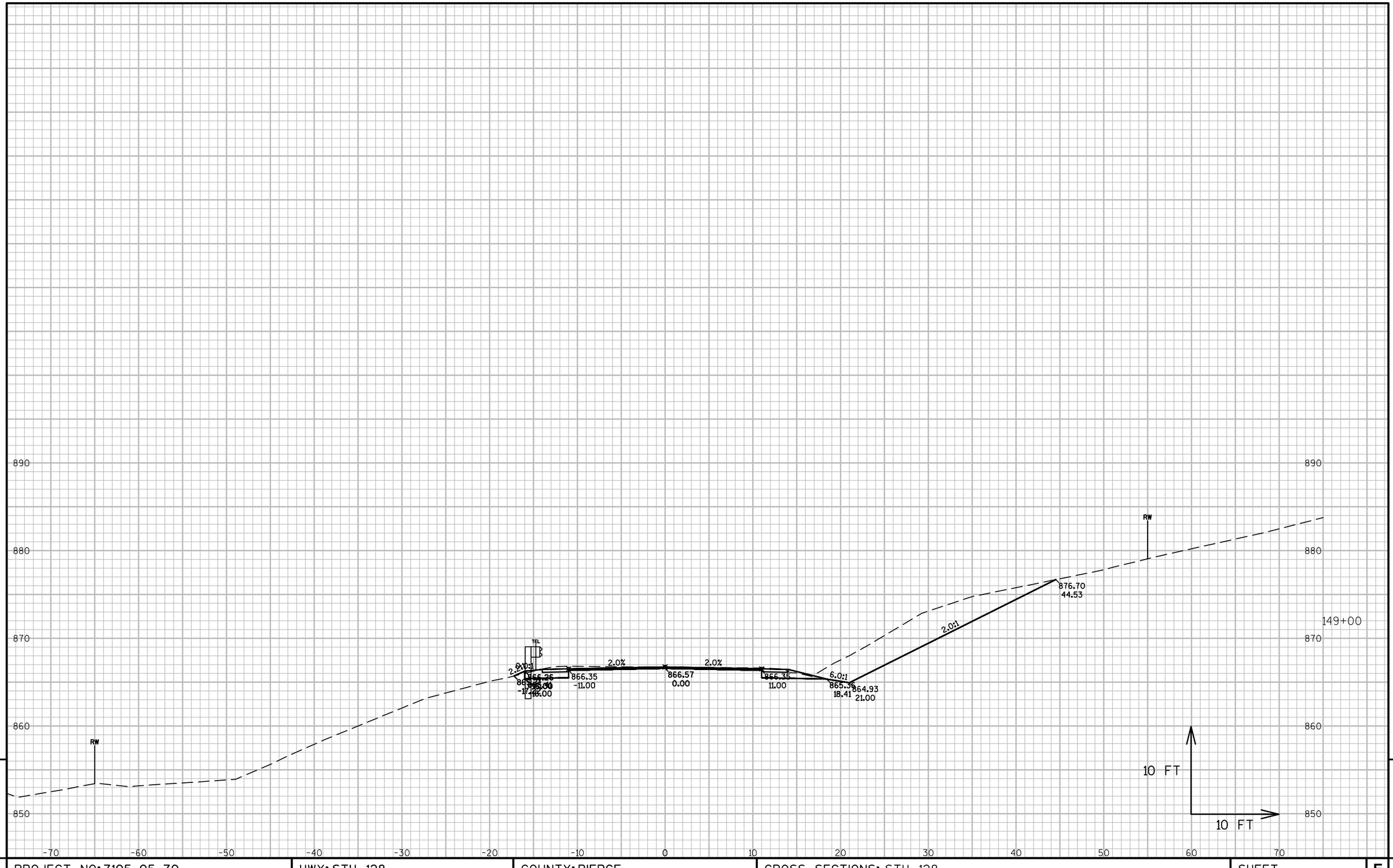
PLOT DATE : 7/29/2016 1:25 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 248 E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 201

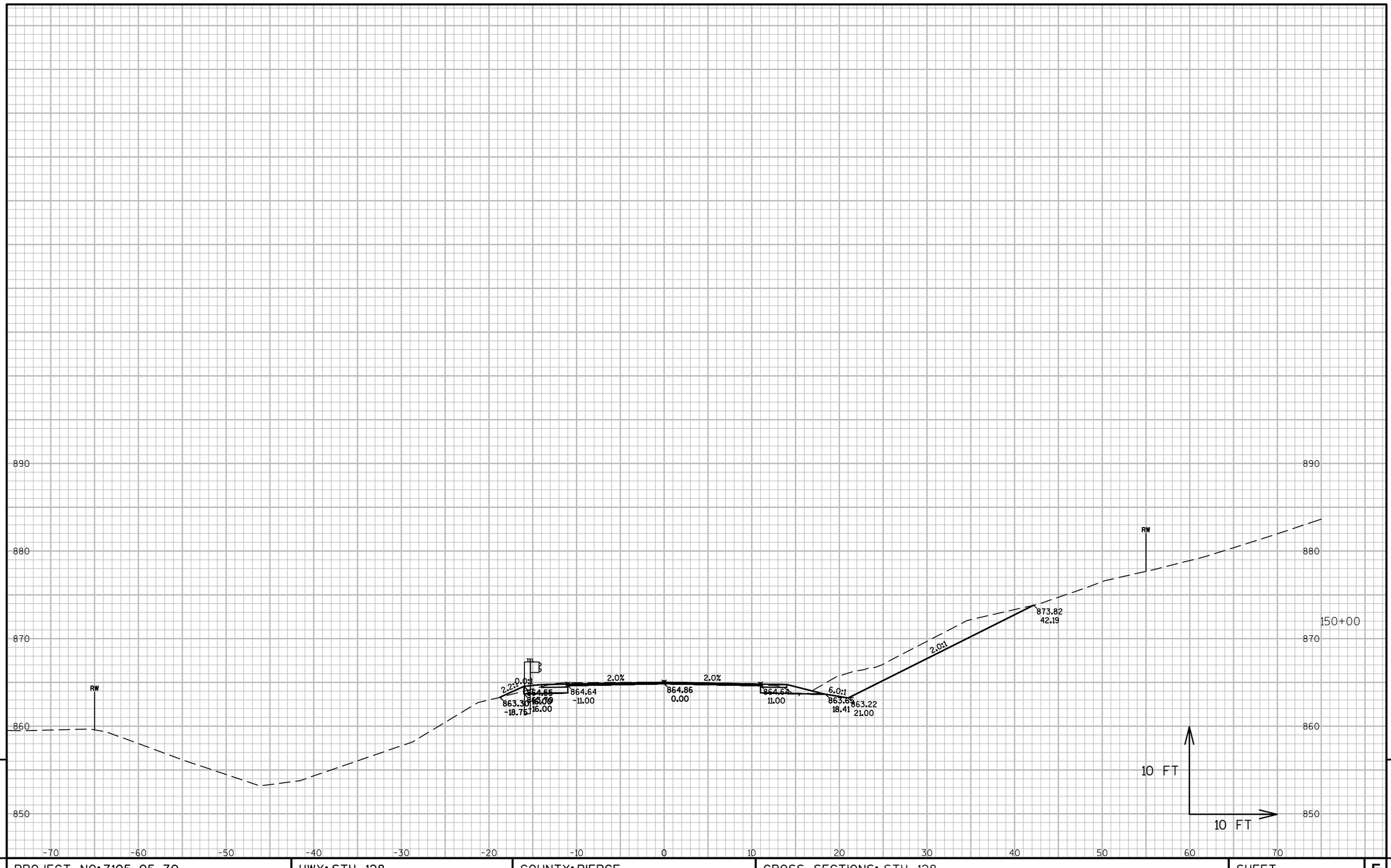
PLOT DATE : 7/29/2016 1:26 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 249	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 202

PLOT DATE : 7/29/2016 1:27 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



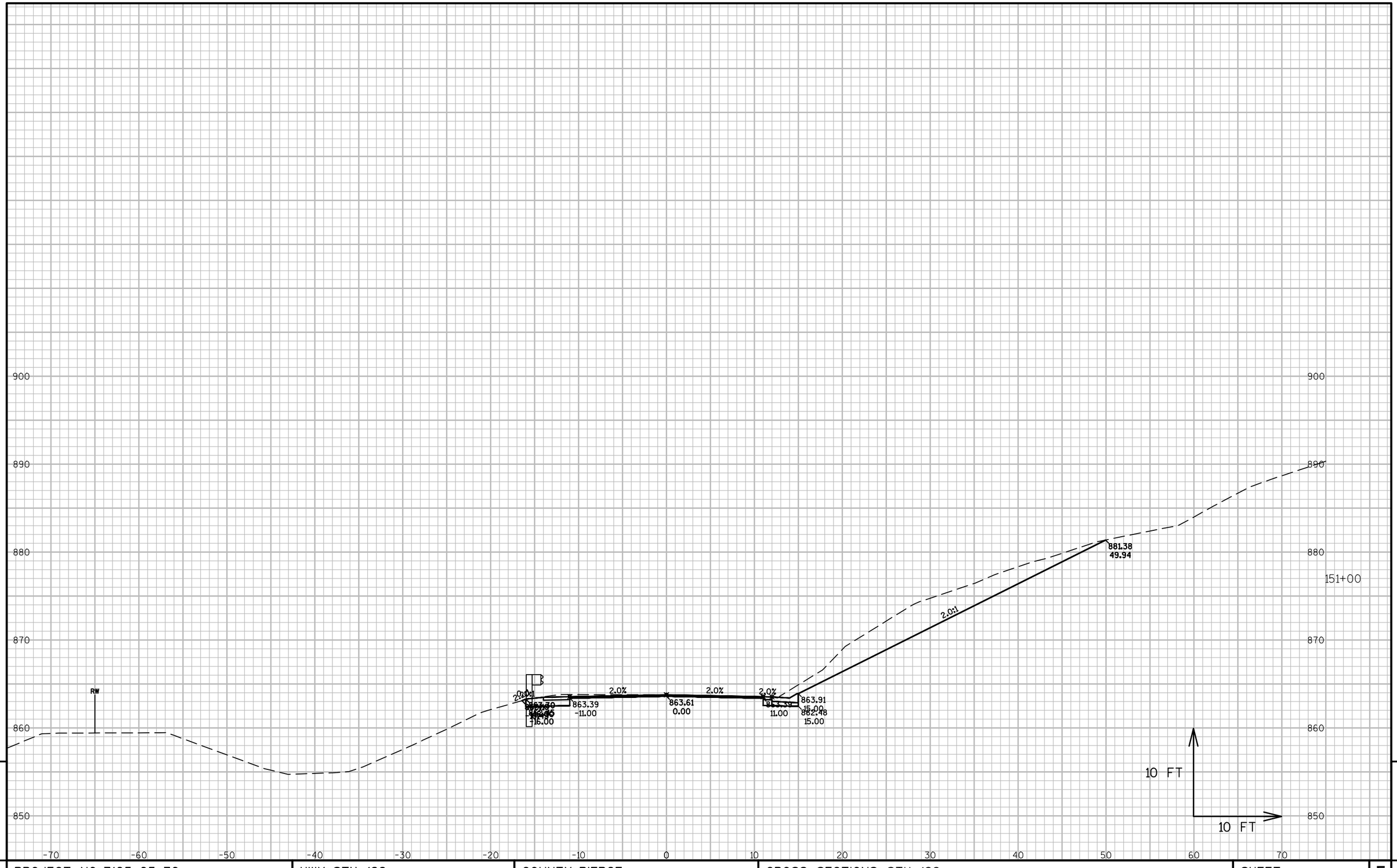
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 250	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 203

PLOT DATE : 7/29/2016 1:27 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



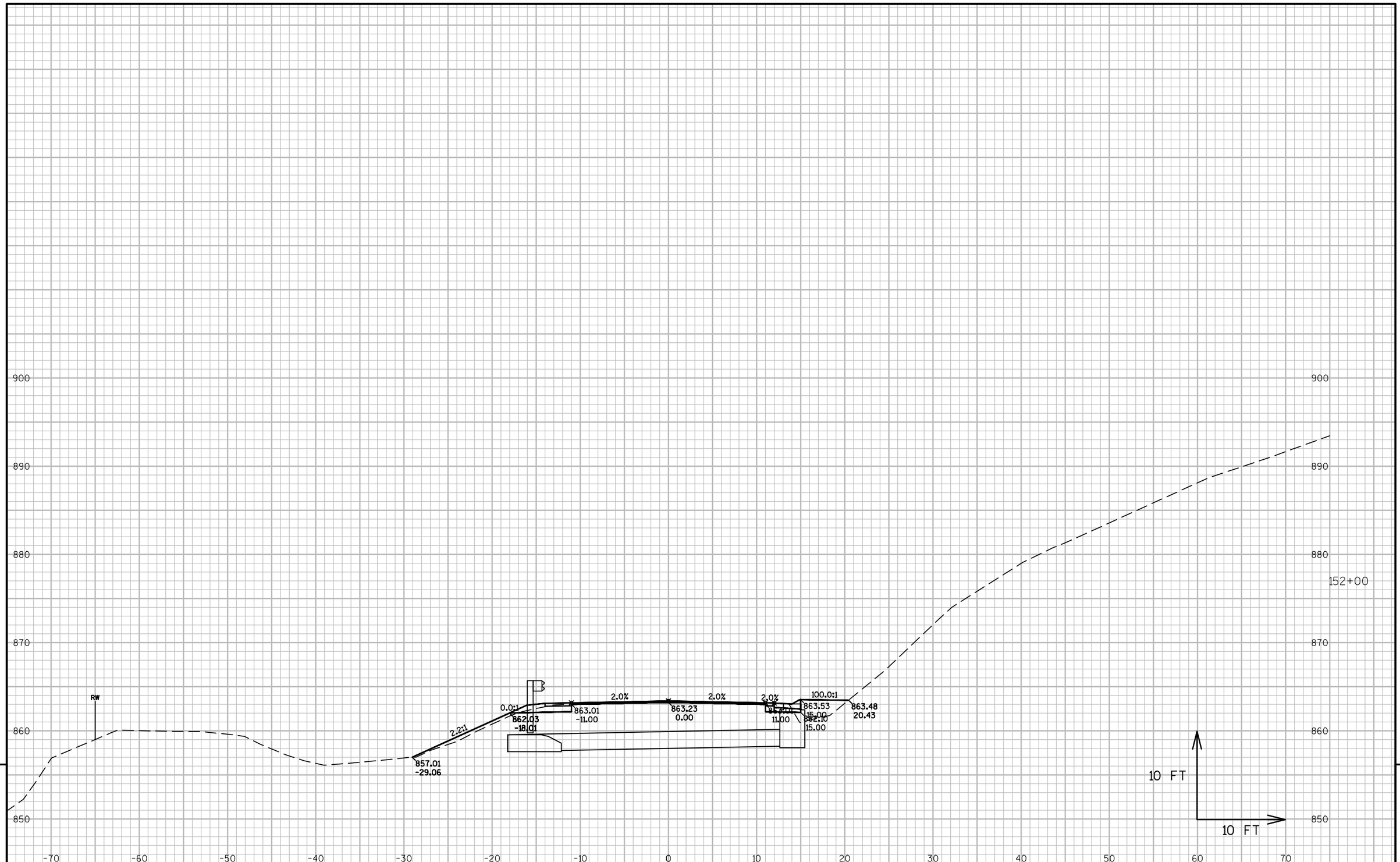
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 251	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 204

PLOT DATE : 7/29/2016 1:28 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



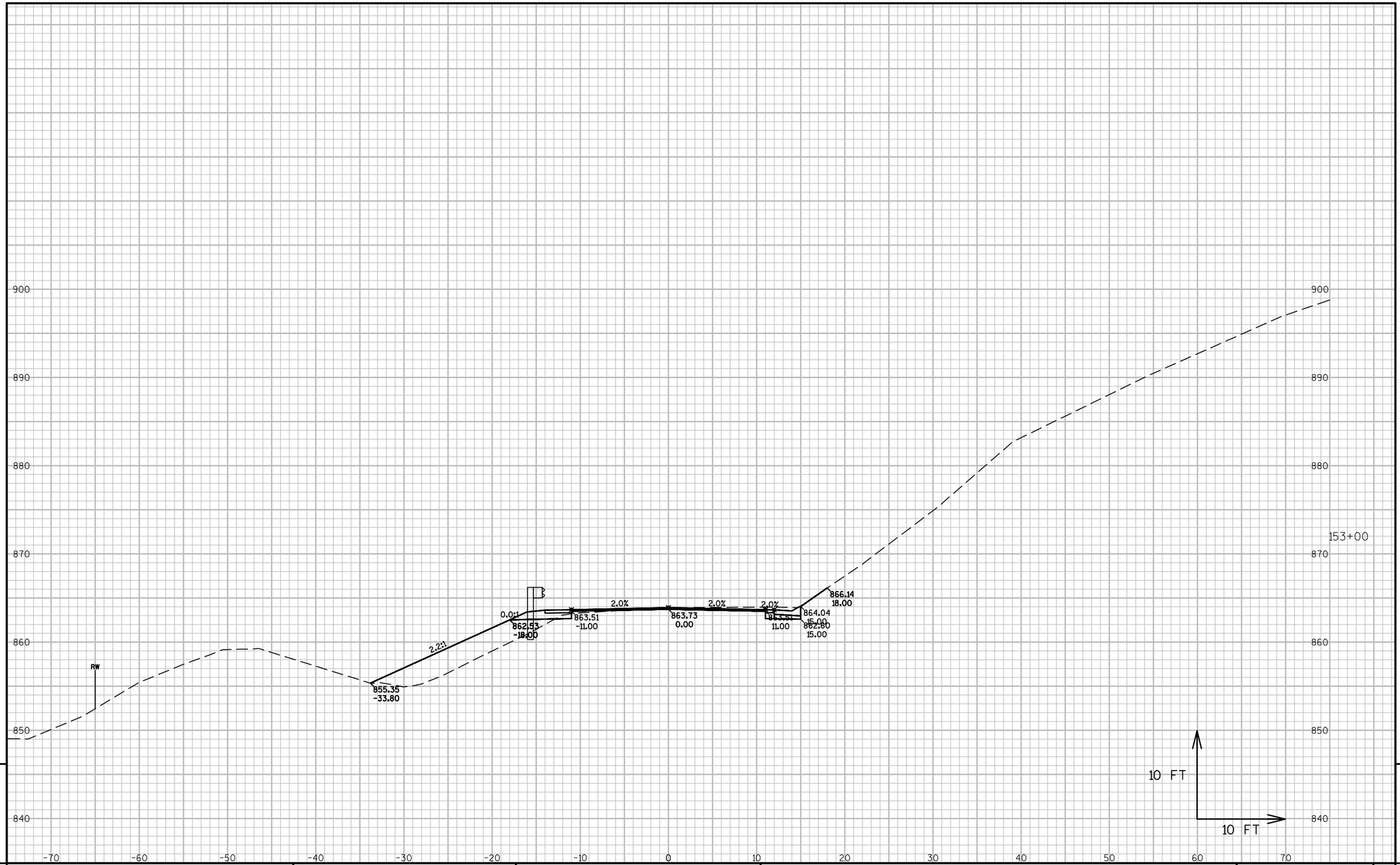
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 252	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 205

PLOT DATE : 7/29/2016 1:29 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 253	E

900

890

880

870

860

850

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

RW

2.2:1

855.91
-35.42

0.0:1

863.90
-17.85

864.79
-11.00

0.8%

864.87
0.00

2.0%

2.0%

2.0:1

865.47
15.00

154+00

10 FT

10 FT

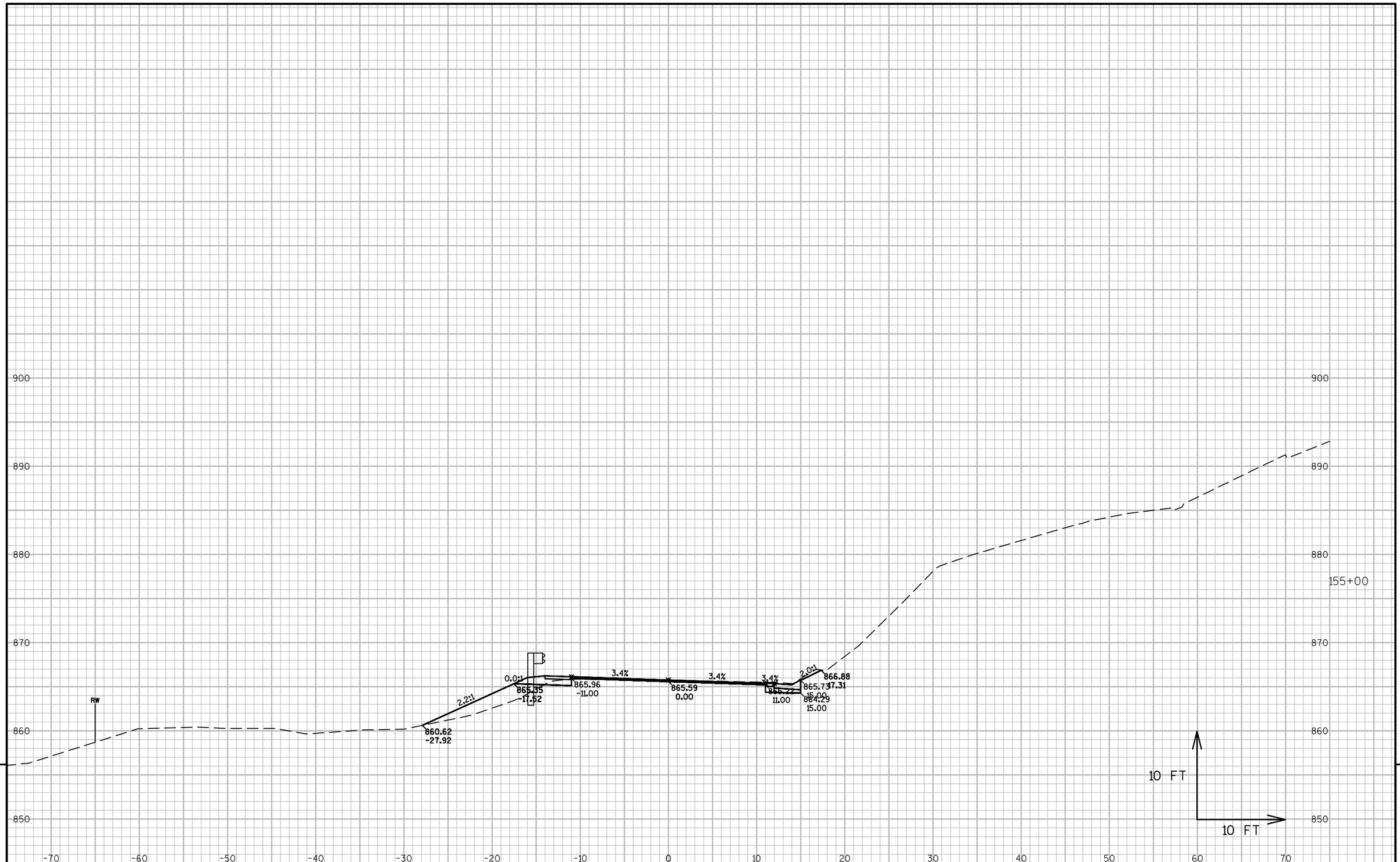
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 254	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 207

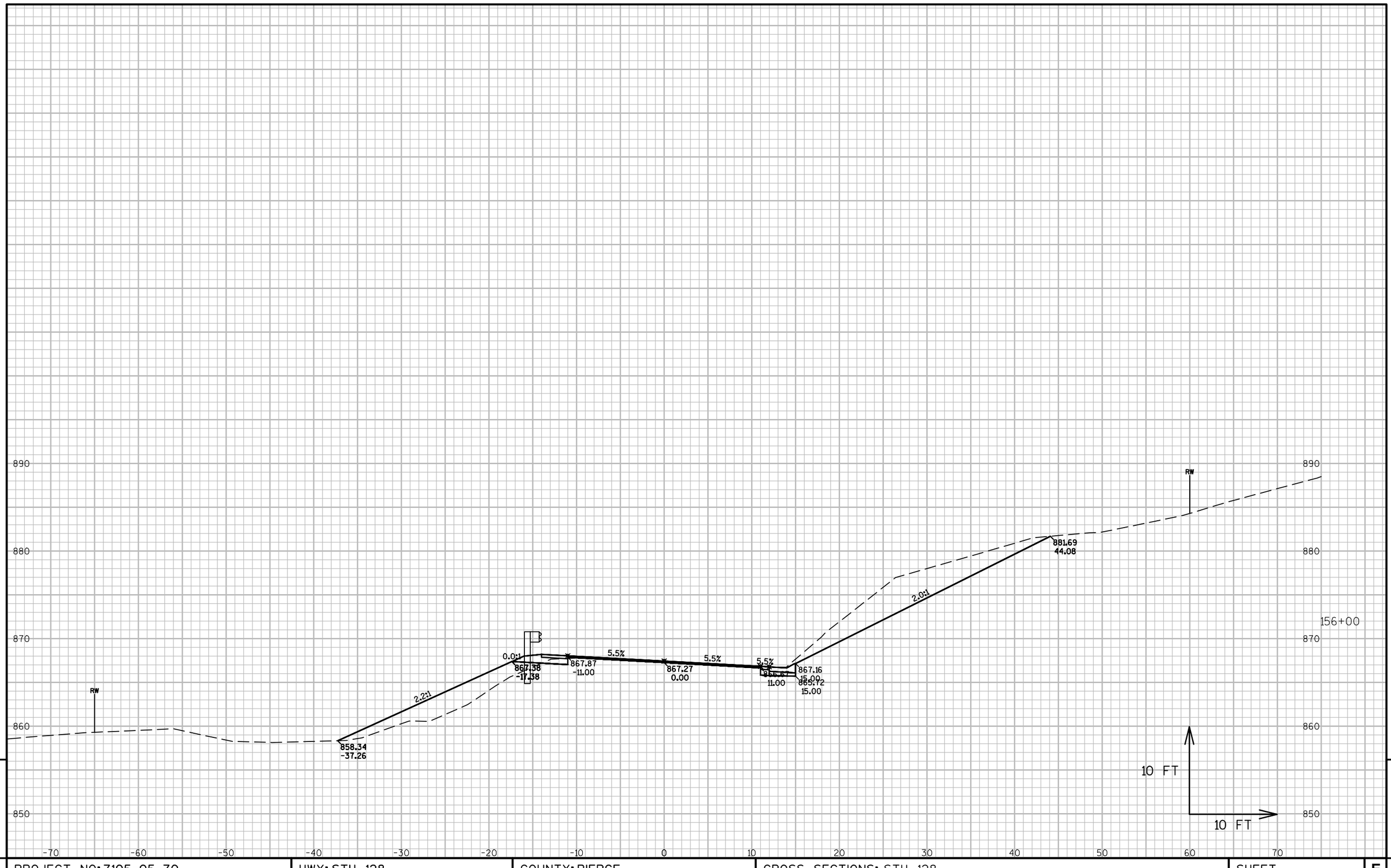
PLOT DATE : 7/29/2016 1:30 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 255	E



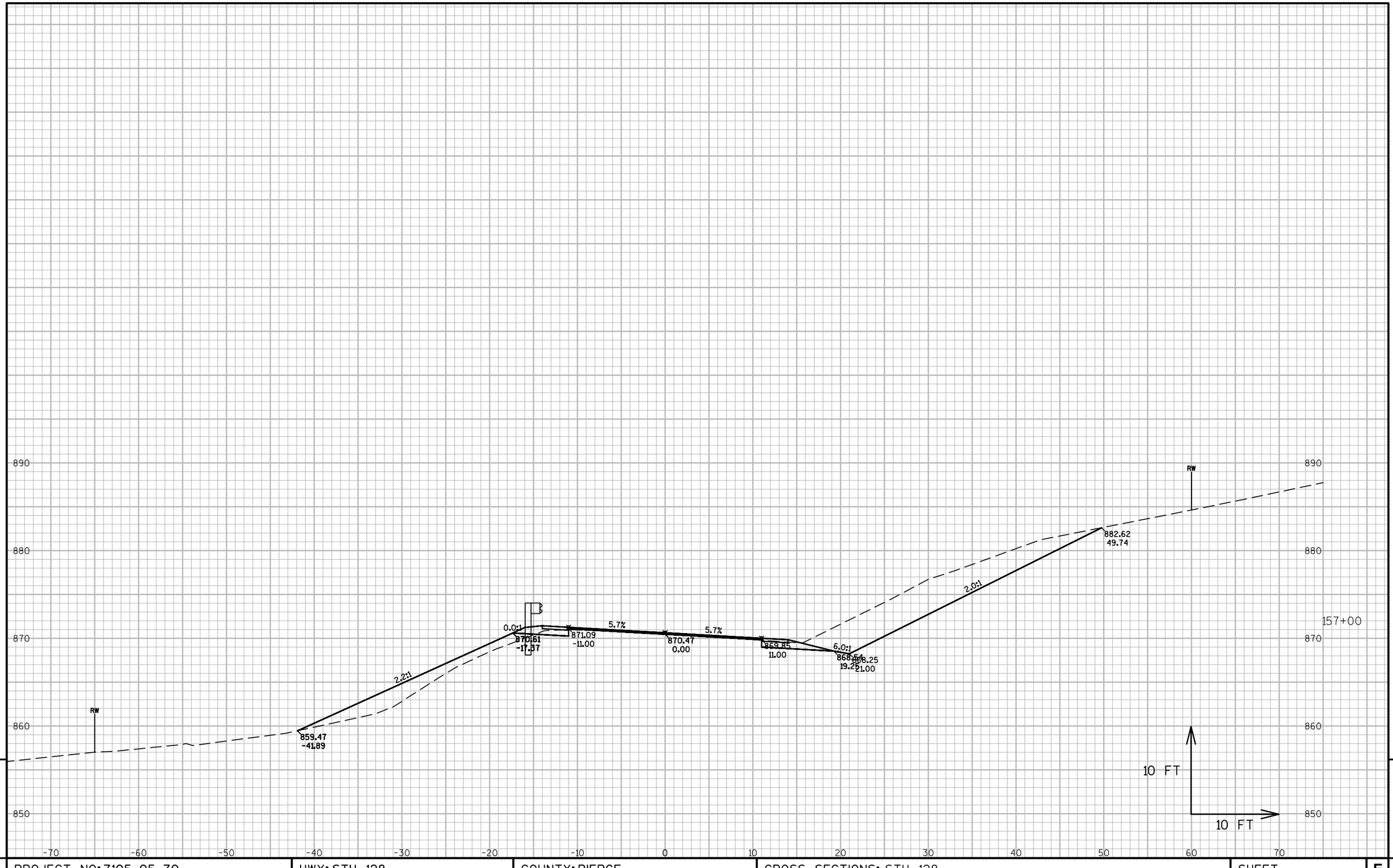
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 256	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 209

PLOT DATE : 7/29/2016 1:32 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 257	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 210

PLOT DATE : 7/29/2016 1:33 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

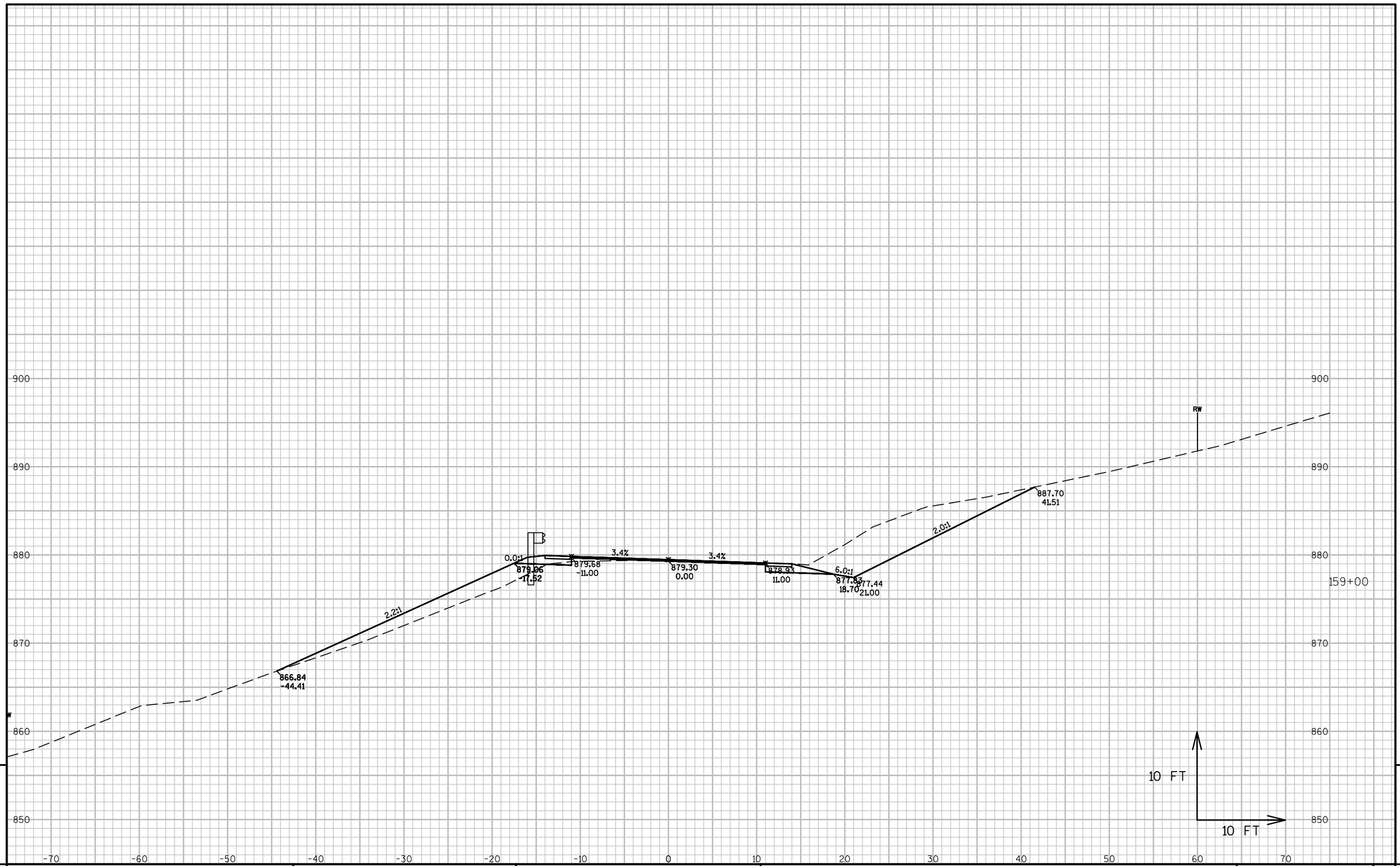
9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 258	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 211

PLOT DATE : 7/29/2016 1:33 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

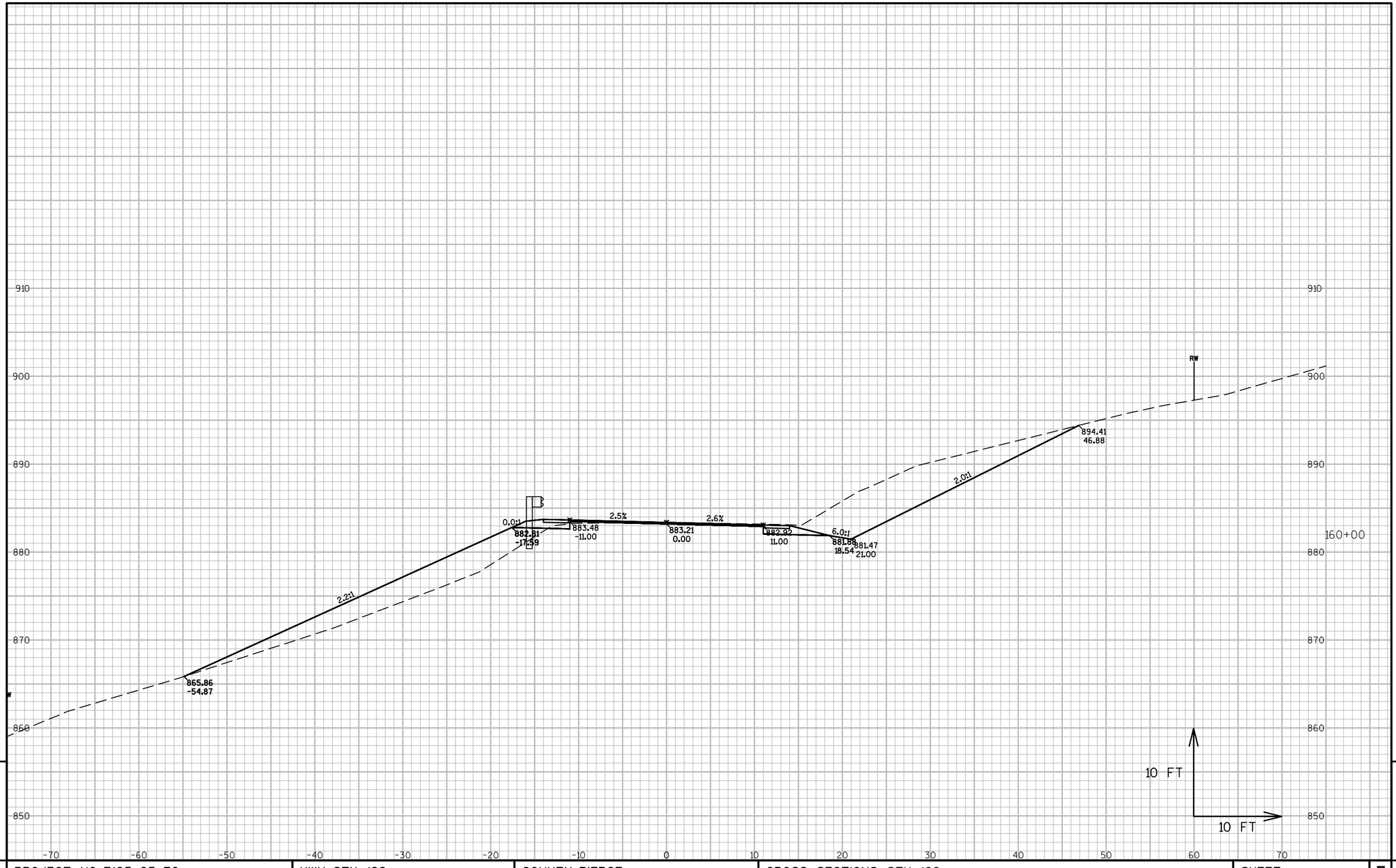
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 259	E



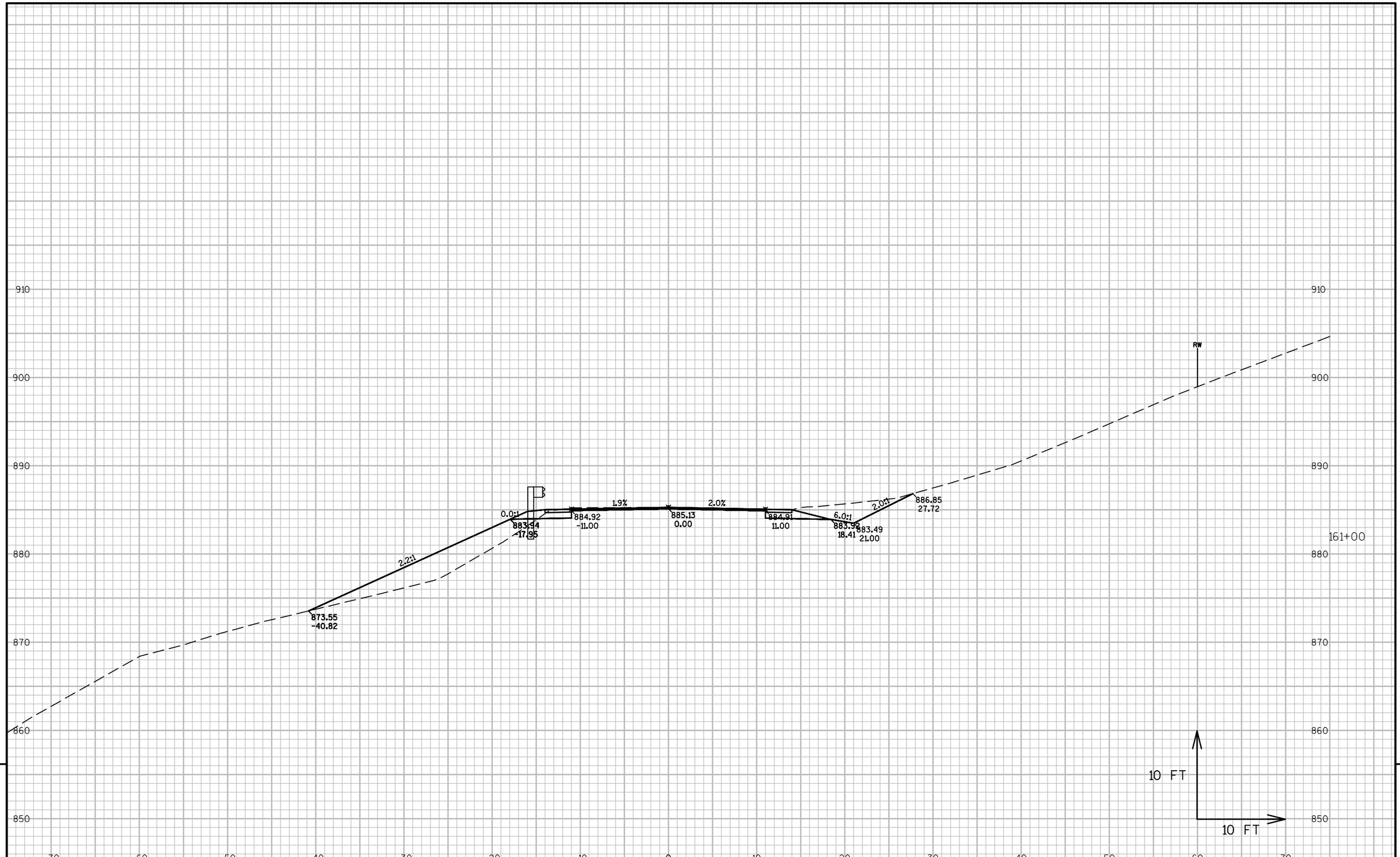
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 260	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 213

PLOT DATE : 7/29/2016 1:35 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

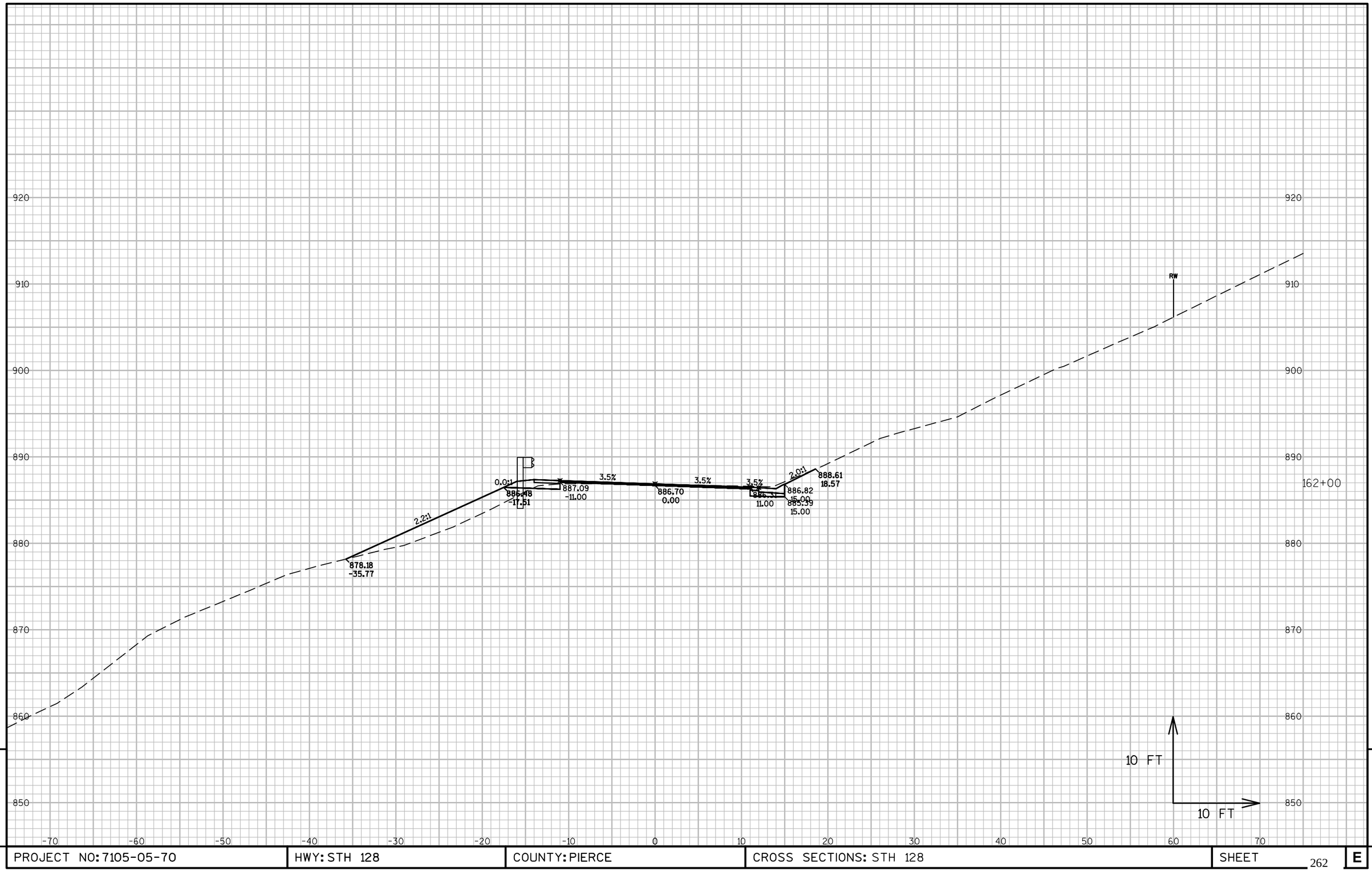


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 261	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 214

PLOT DATE : 7/29/2016 1:36 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

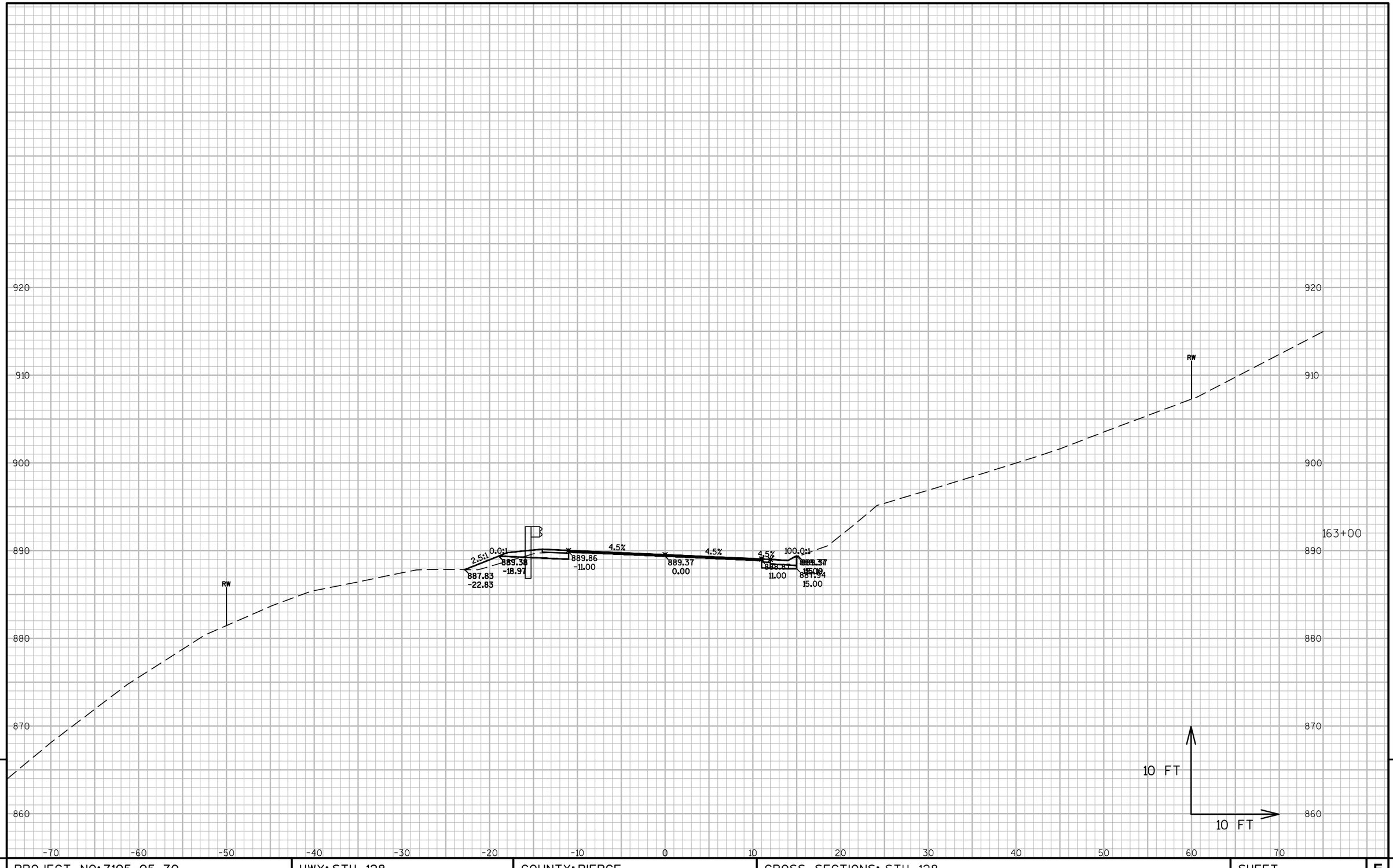
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 262	E

9

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 215

PLOT DATE : 7/29/2016 1:36 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



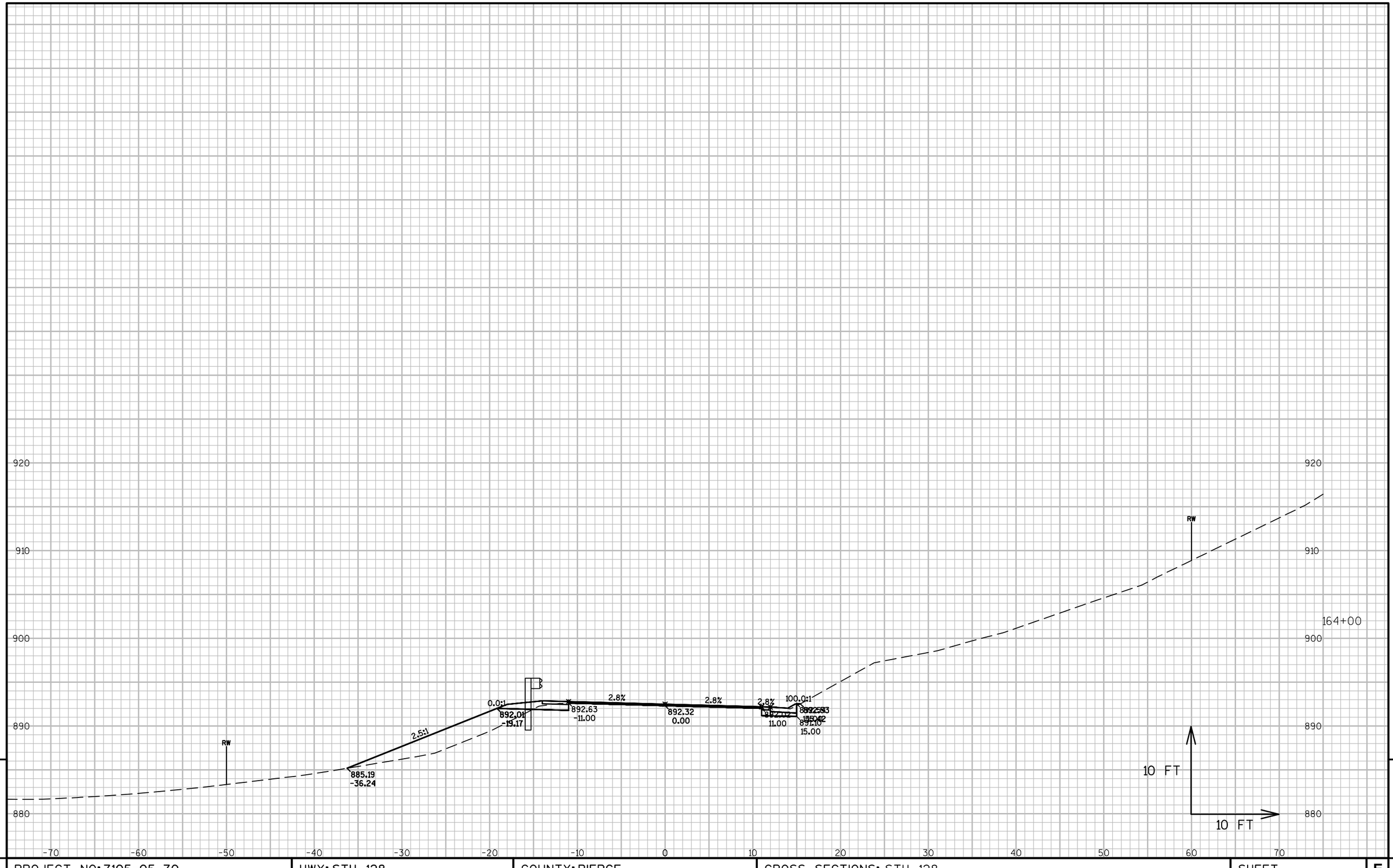
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9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 263	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 216

PLOT DATE : 7/29/2016 1:37 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 264	E



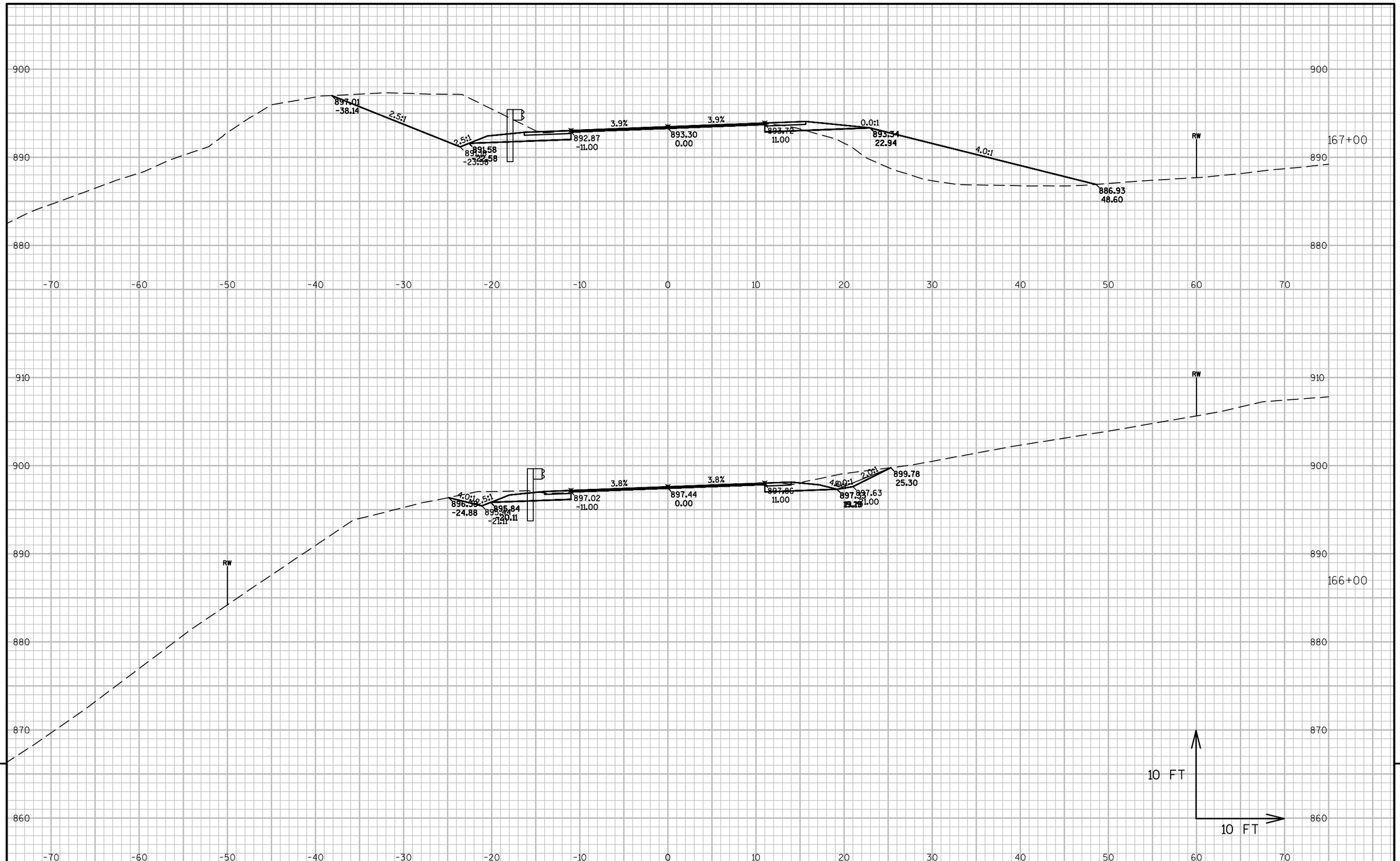
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 265	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 218

PLOT DATE : 7/29/2016 1:39 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

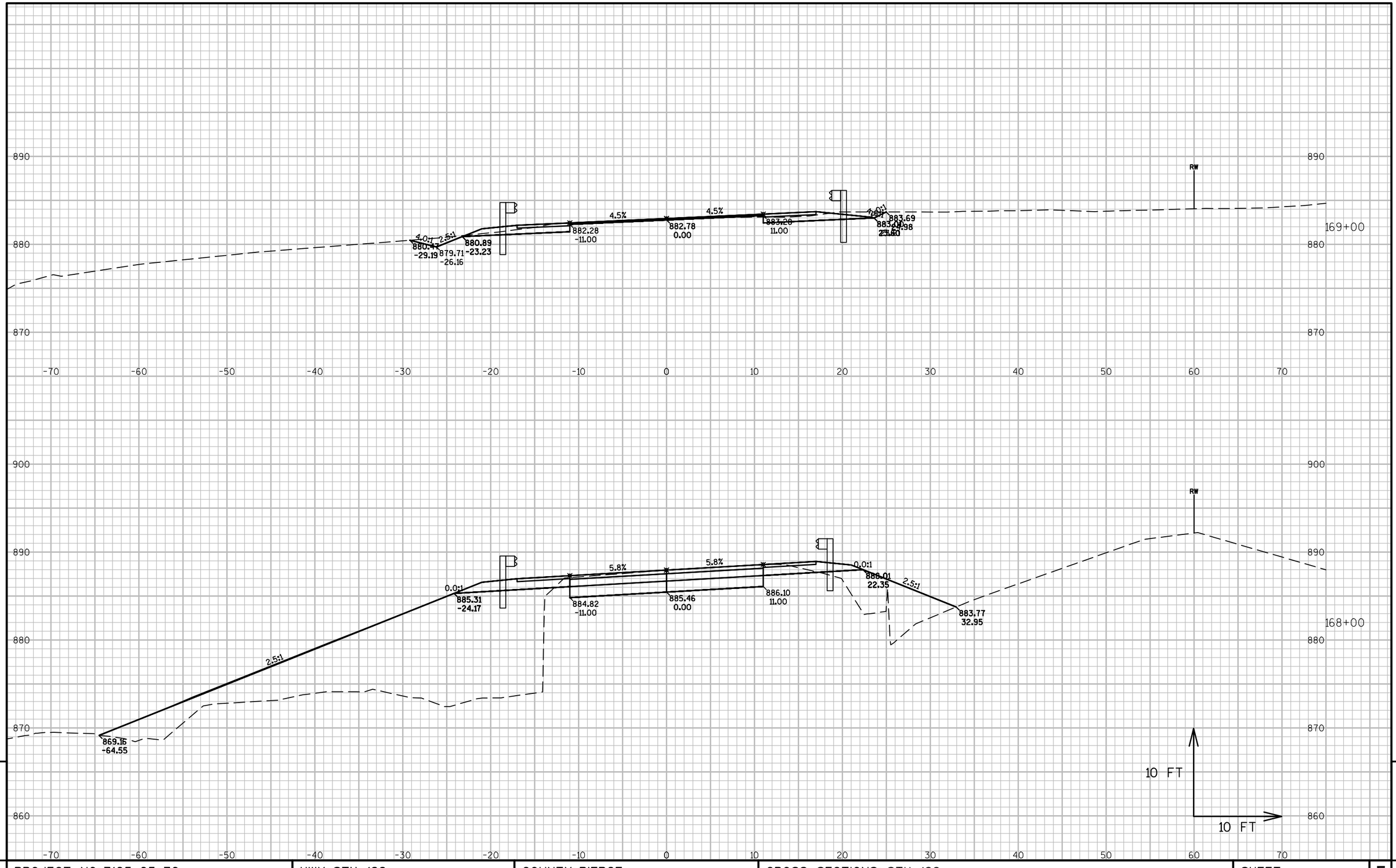


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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 266	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 219
PLOT DATE : 7/29/2016 1:39 PM
PLOT BY : ADAM OSYPOWSKI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



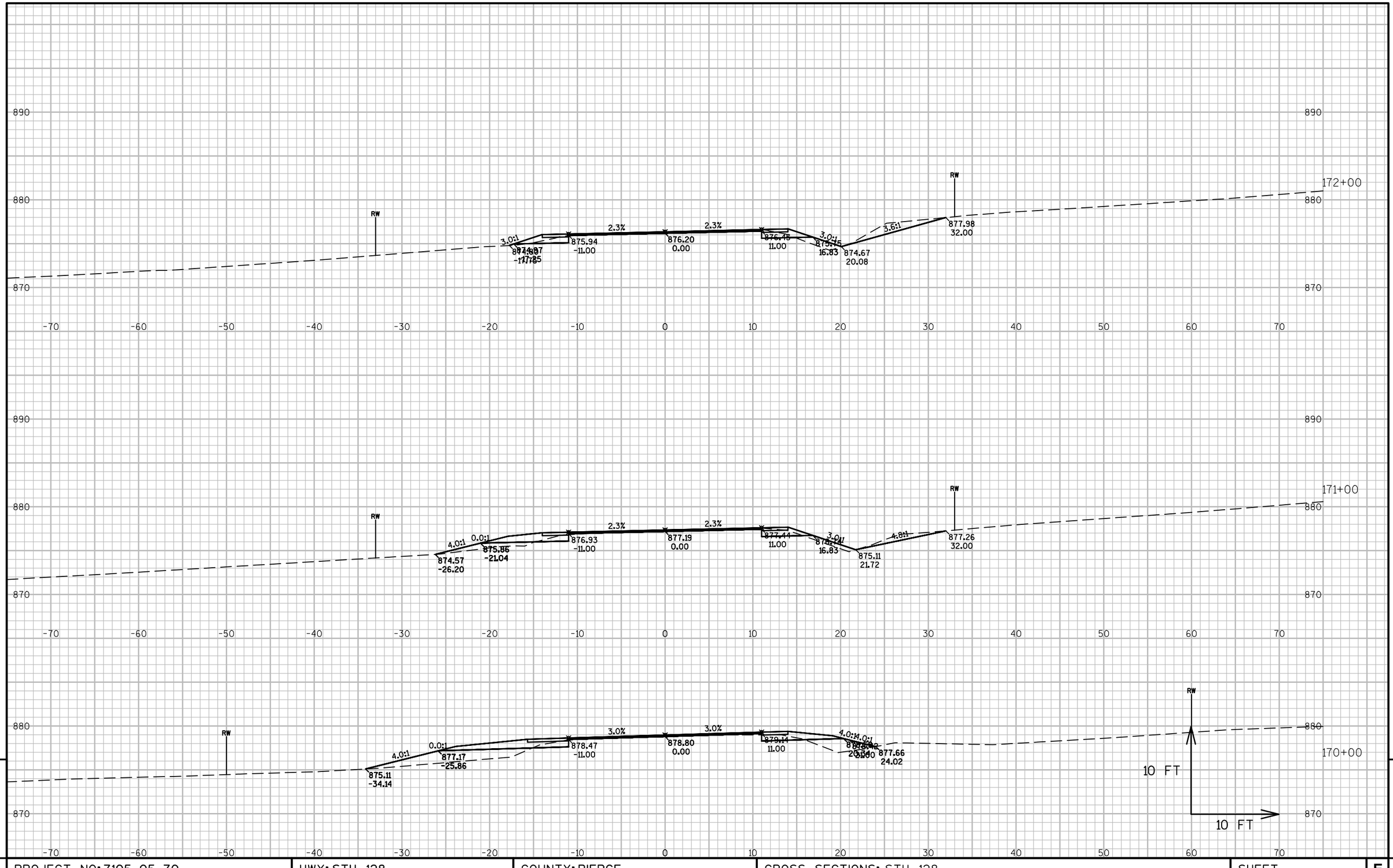
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 267	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 220

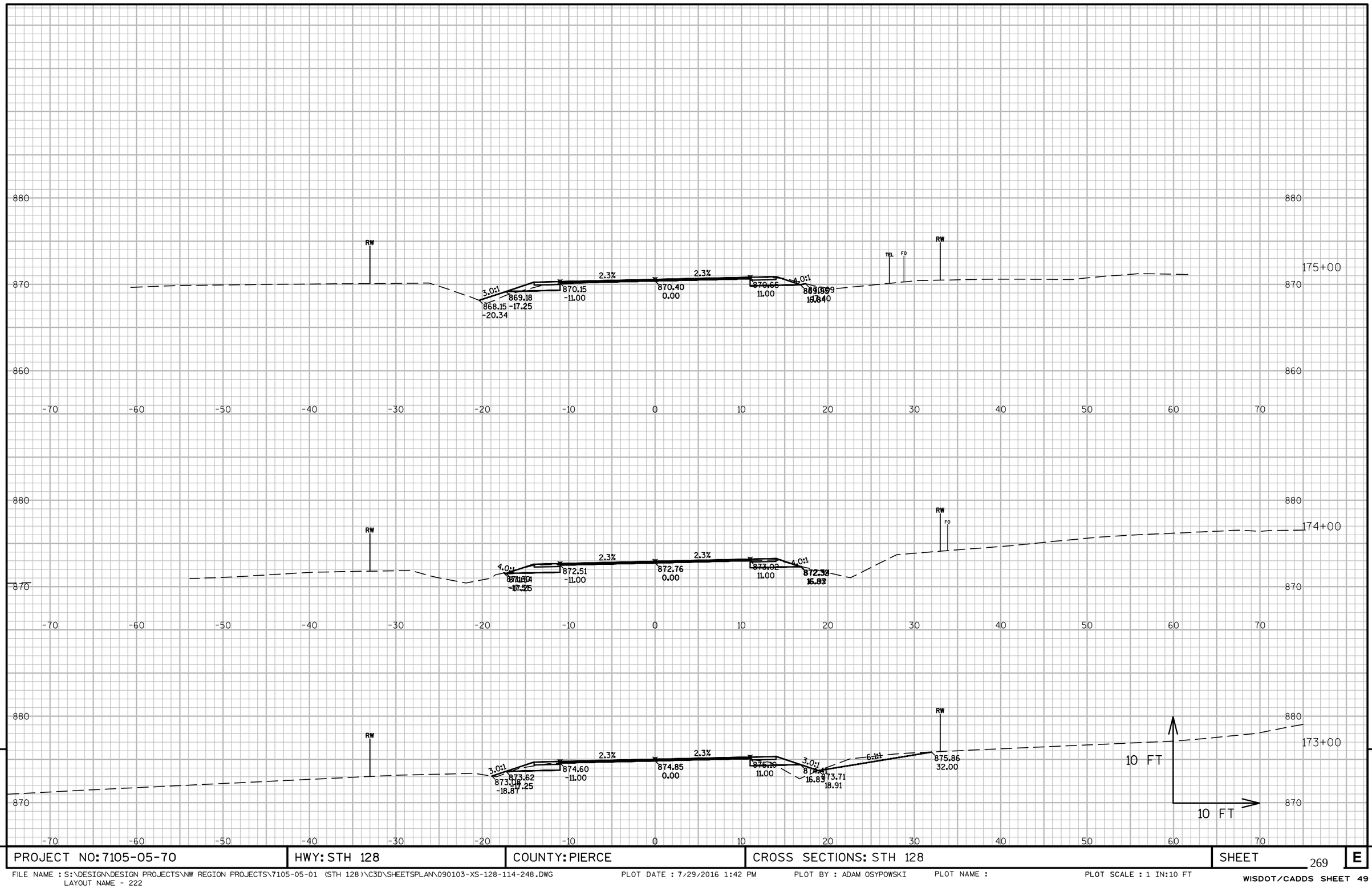
PLOT DATE : 7/29/2016 1:40 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 268	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 221

PLOT DATE : 7/29/2016 1:41 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

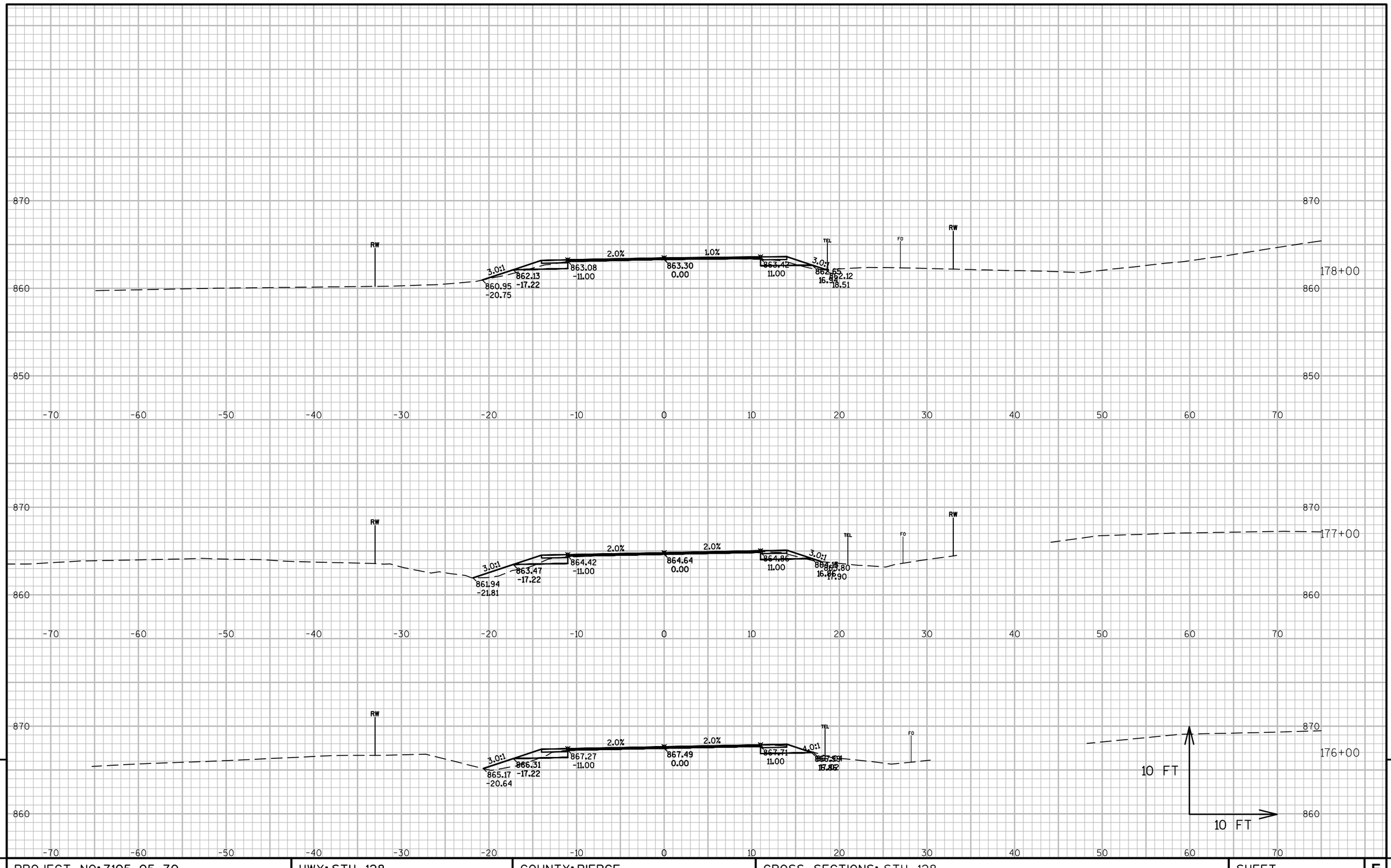


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 269	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 222

PLOT DATE : 7/29/2016 1:42 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

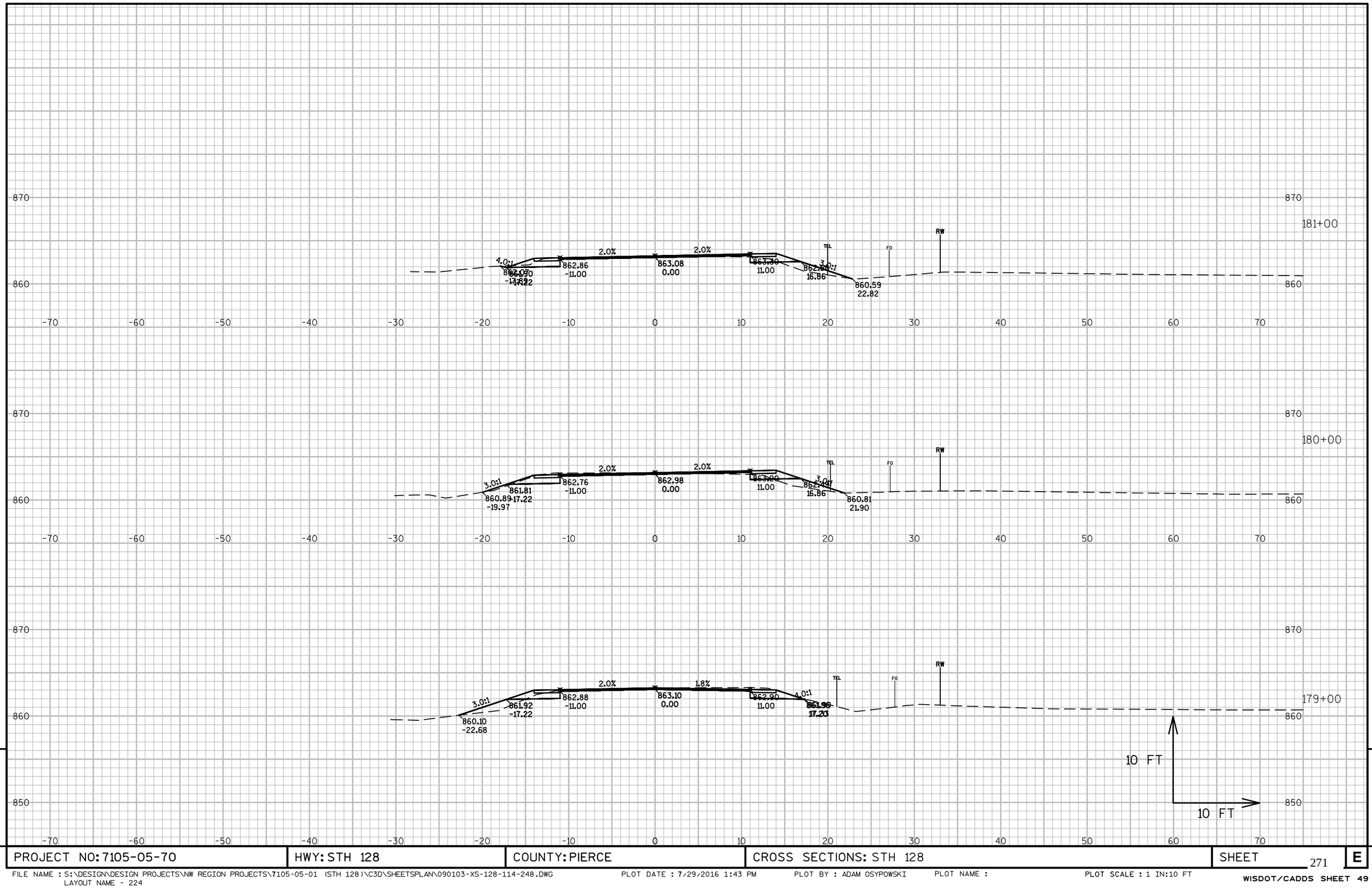
WISDOT/CADDS SHEET 49



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 270	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 223

PLOT DATE : 7/29/2016 1:42 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



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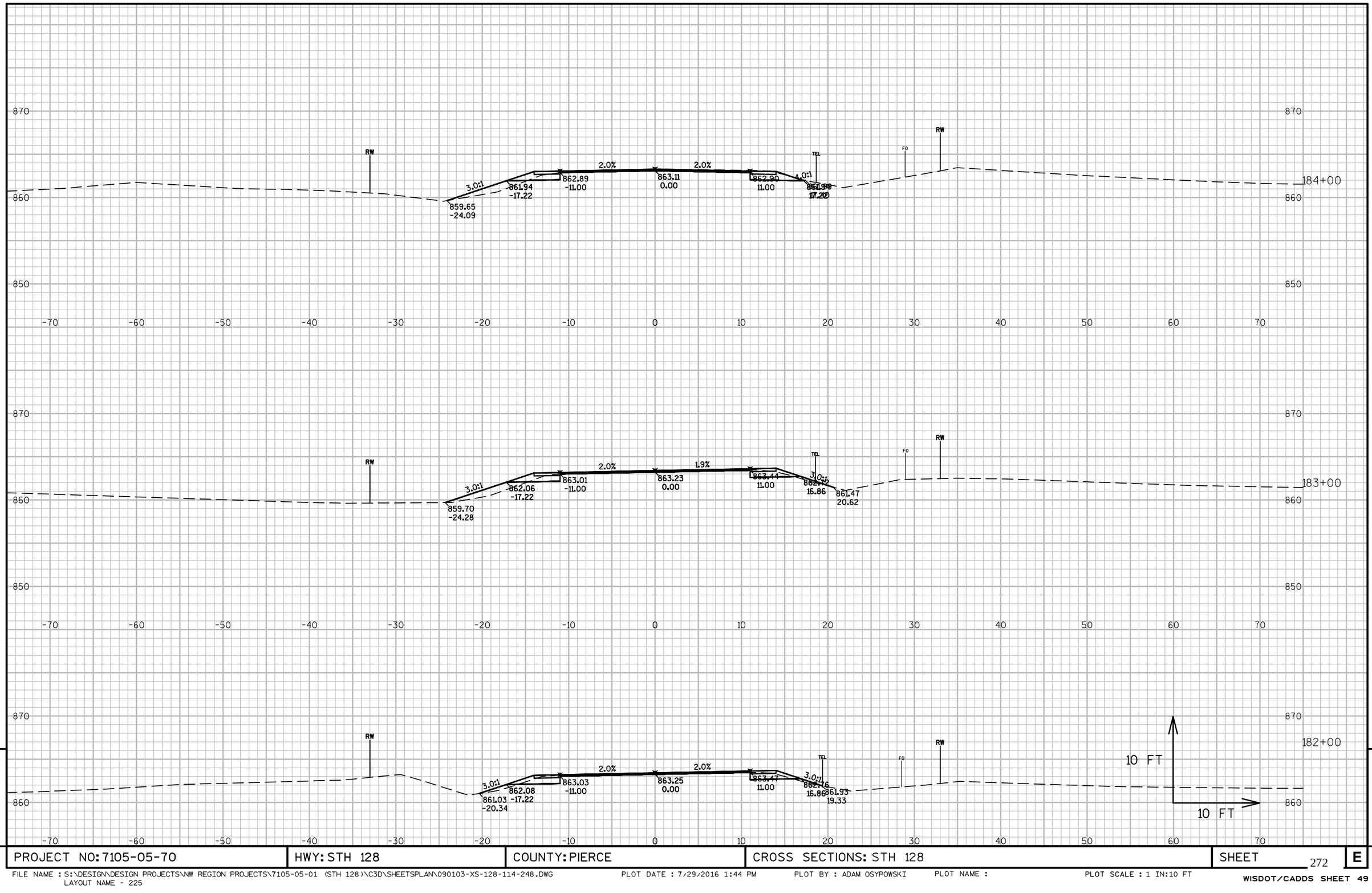
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 271	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 224

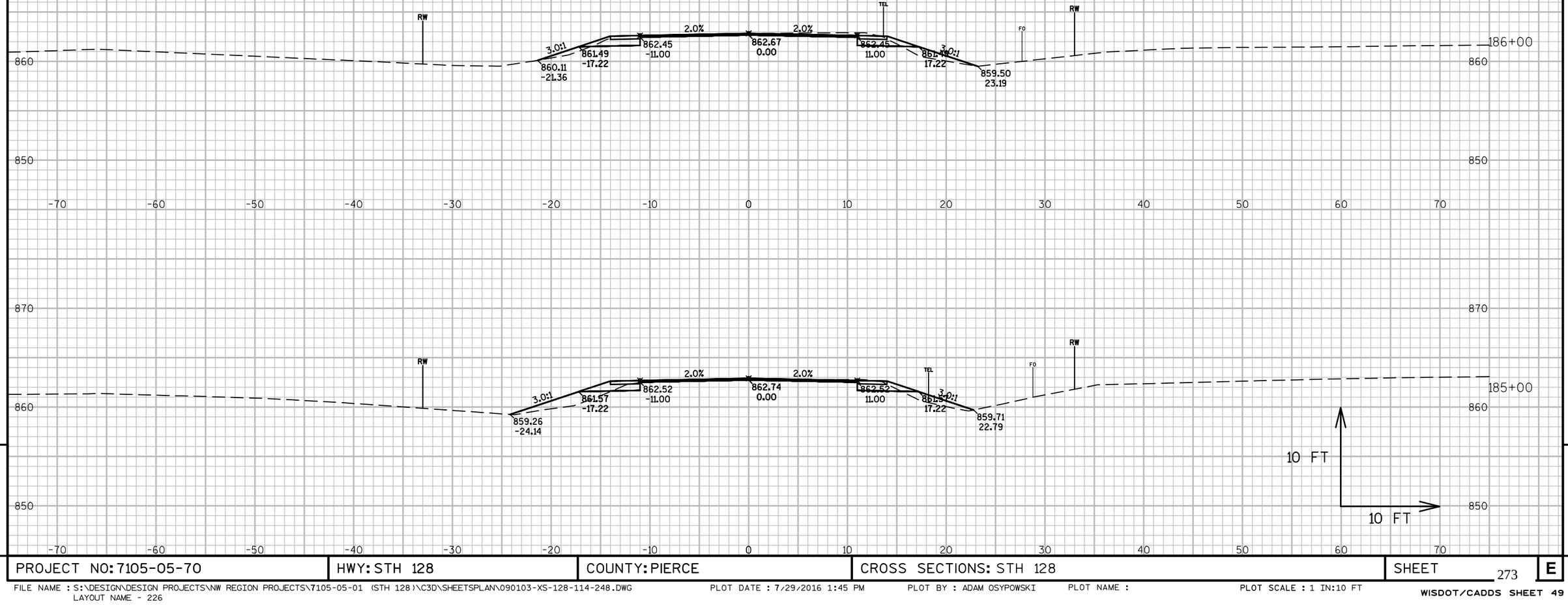
PLOT DATE : 7/29/2016 1:43 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 272 E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 225
PLOT DATE : 7/29/2016 1:44 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



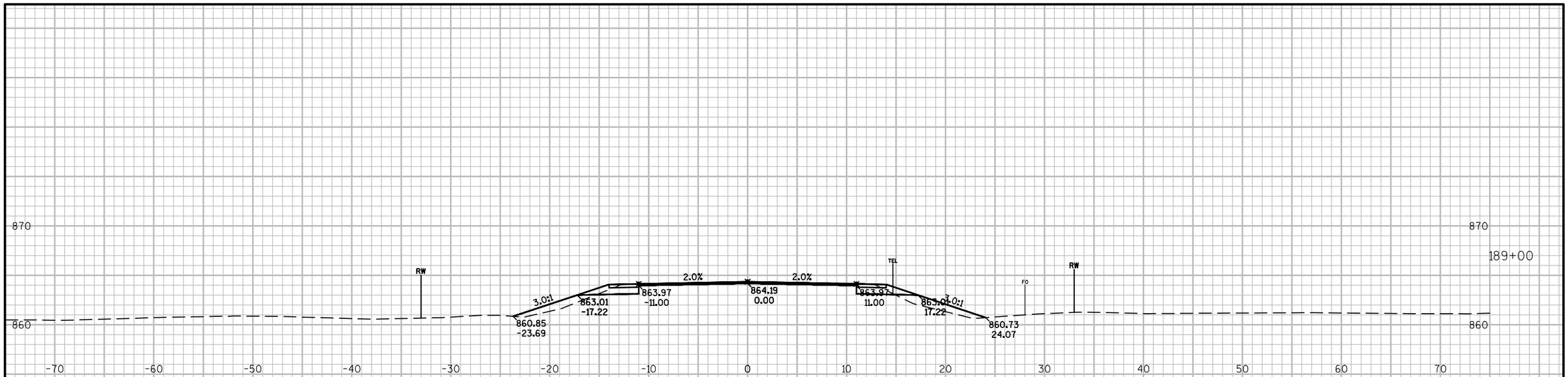
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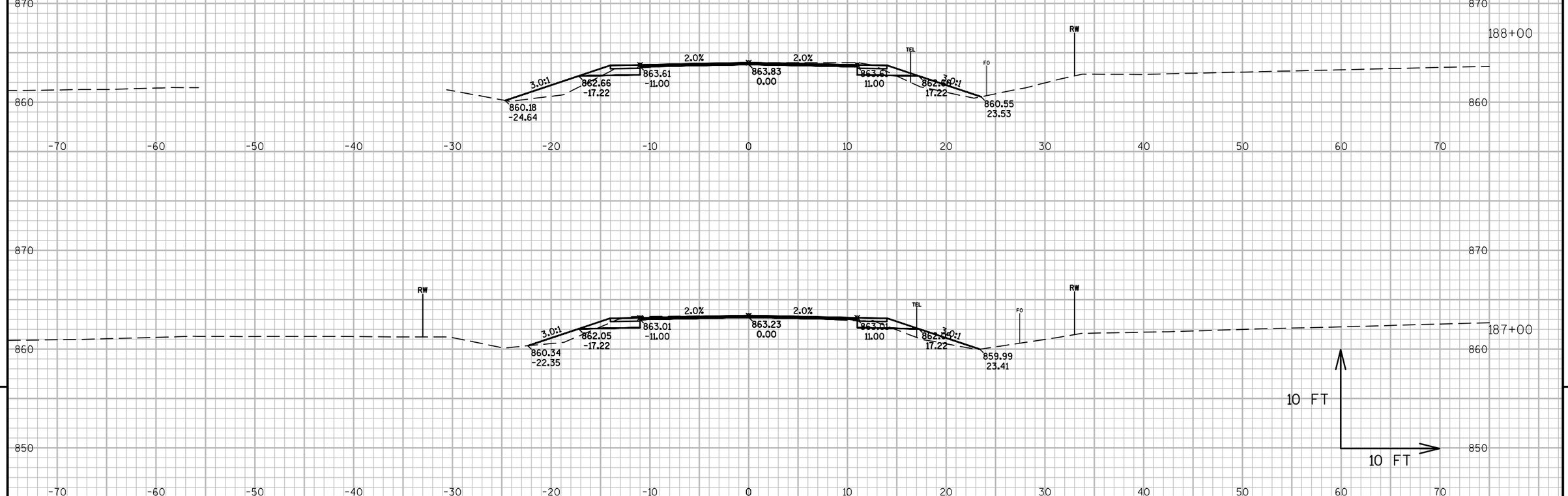
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 273	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 226

PLOT DATE : 7/29/2016 1:45 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT





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9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 274	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 227

PLOT DATE : 7/29/2016 1:45 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

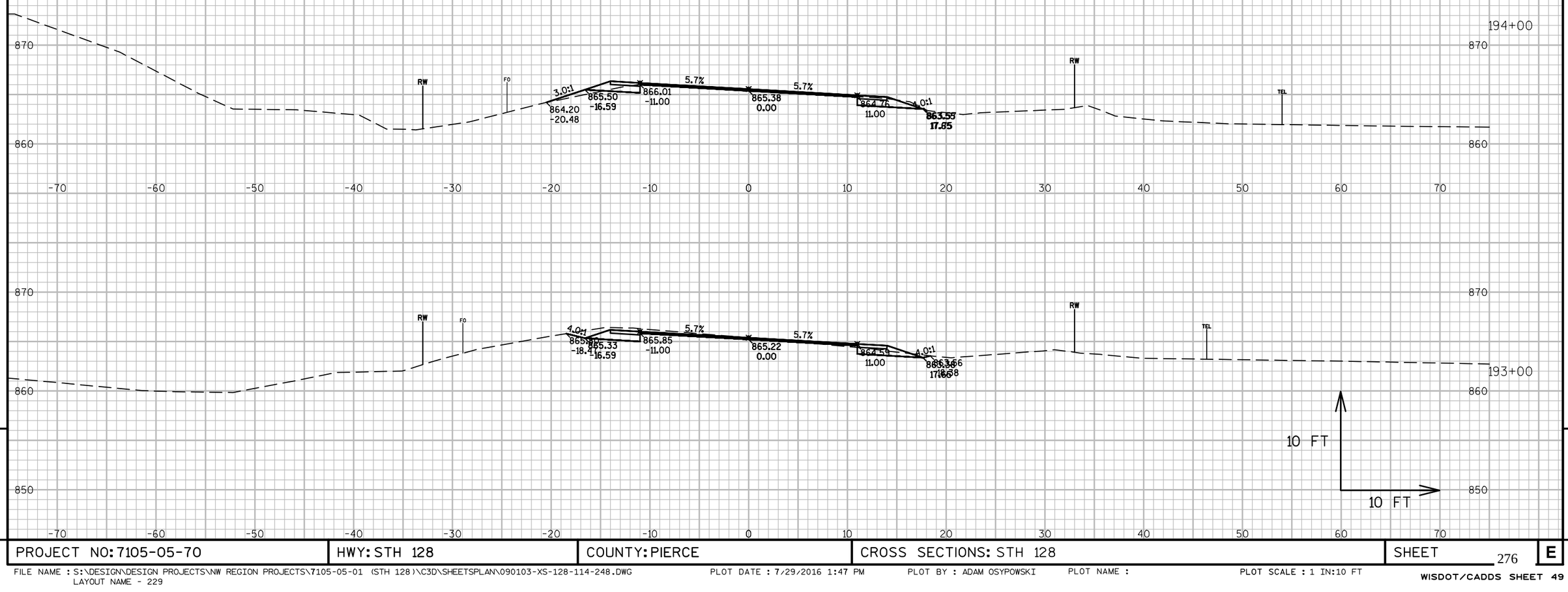
WISDOT/CADDS SHEET 49



9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 275	E

9

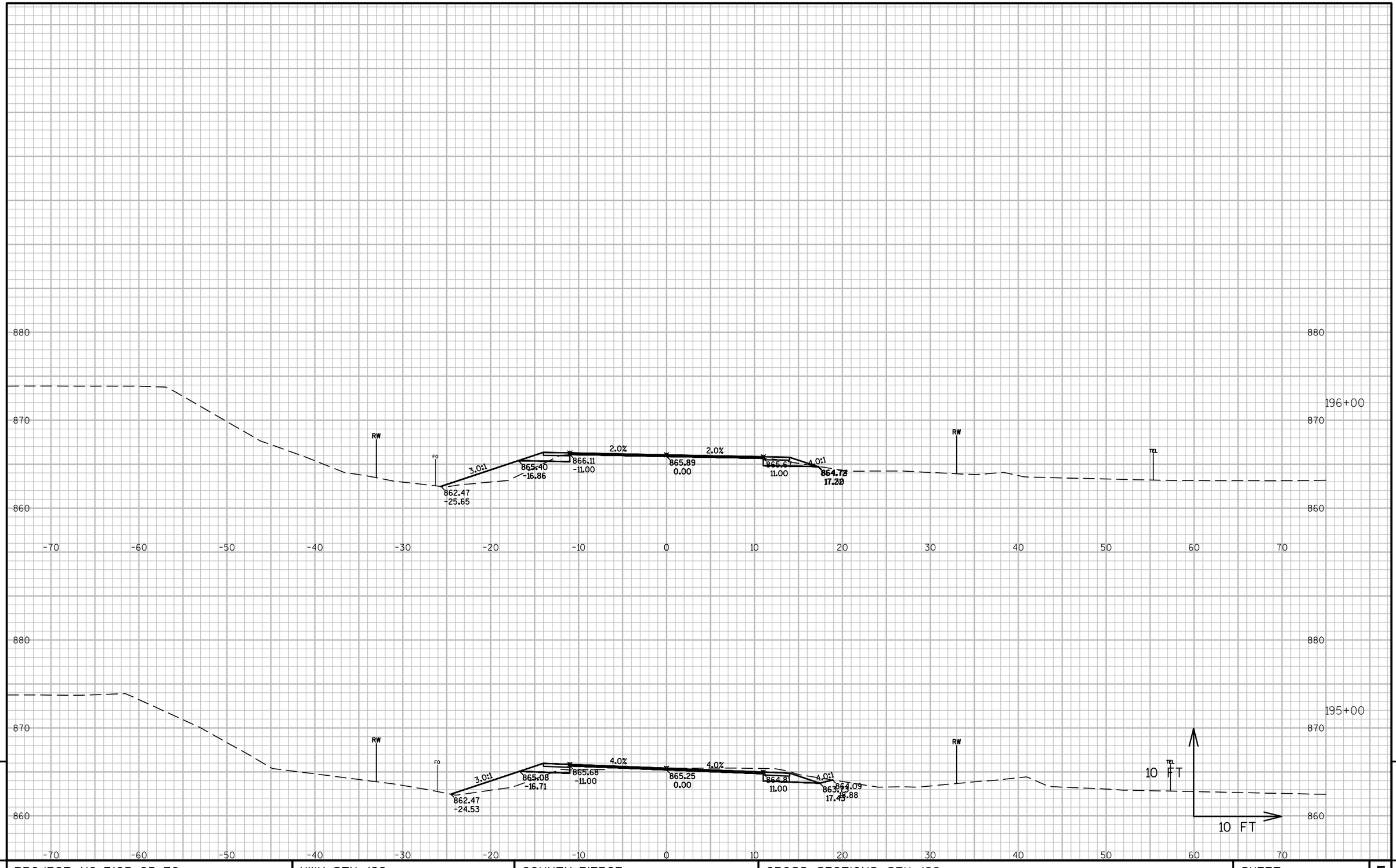


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 276	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 229

PLOT DATE : 7/29/2016 1:47 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

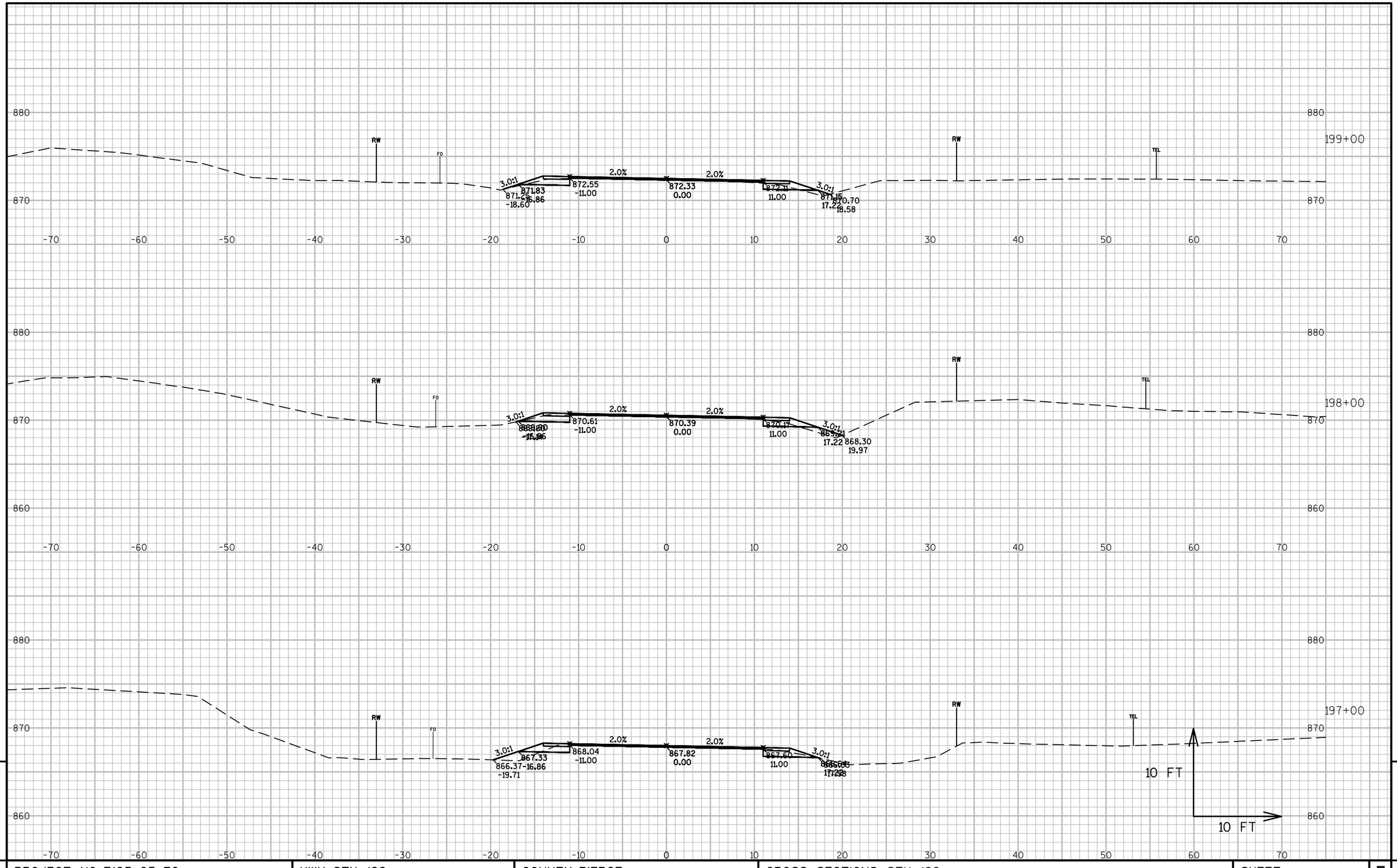


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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 277	E

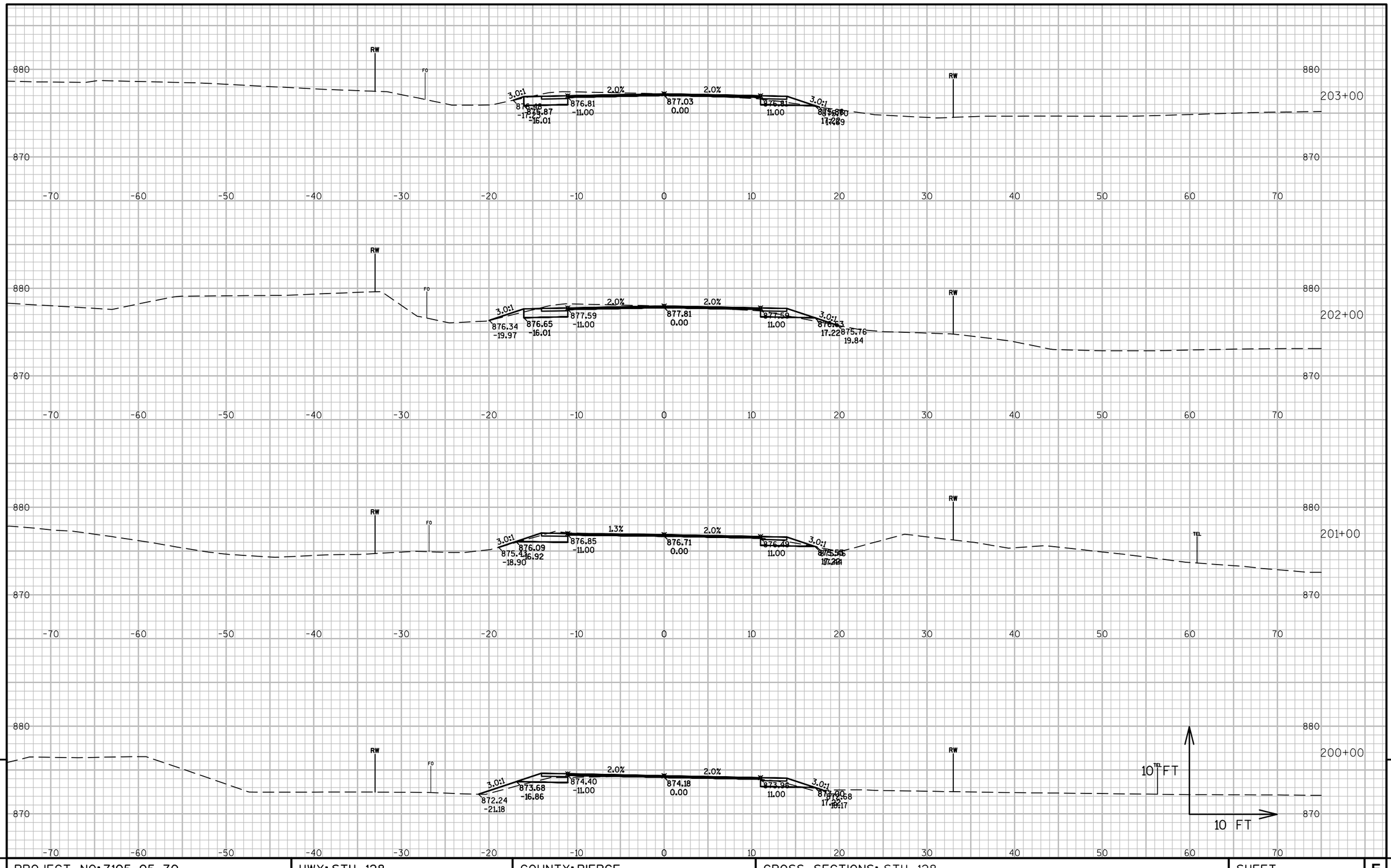
FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 230
PLOT DATE : 7/29/2016 1:47 PM
PLOT BY : ADAM OSYPOWSKI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



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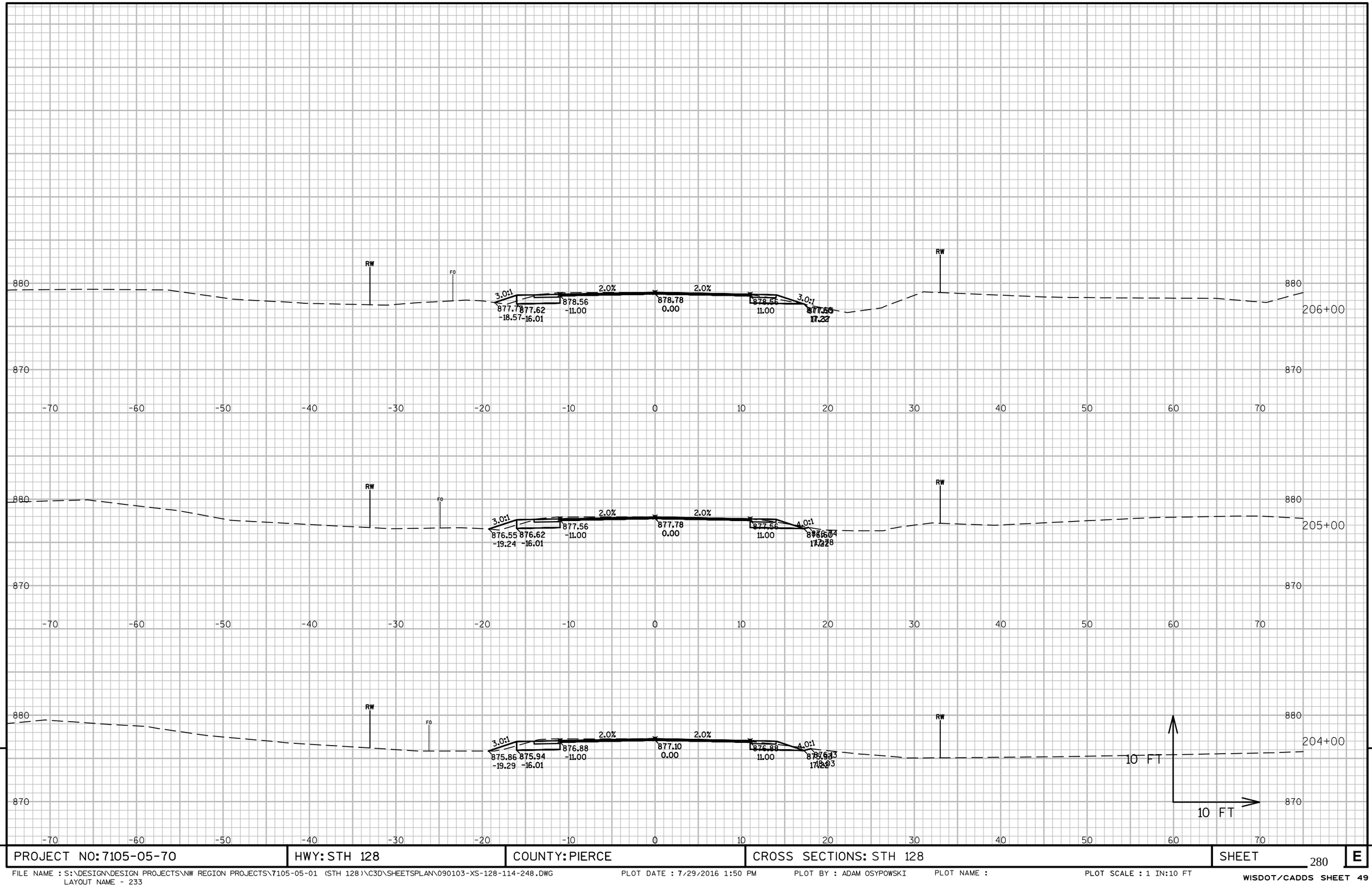
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 278	E



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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 279	E

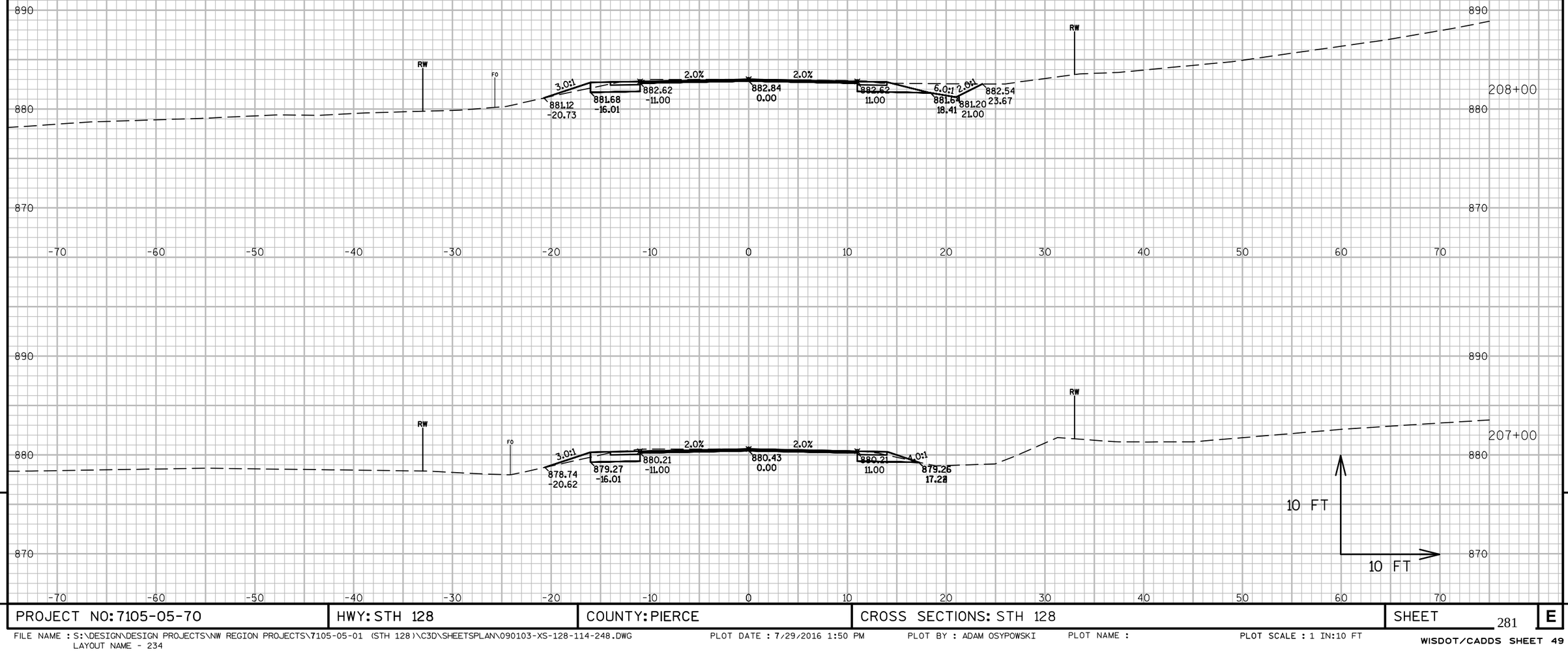


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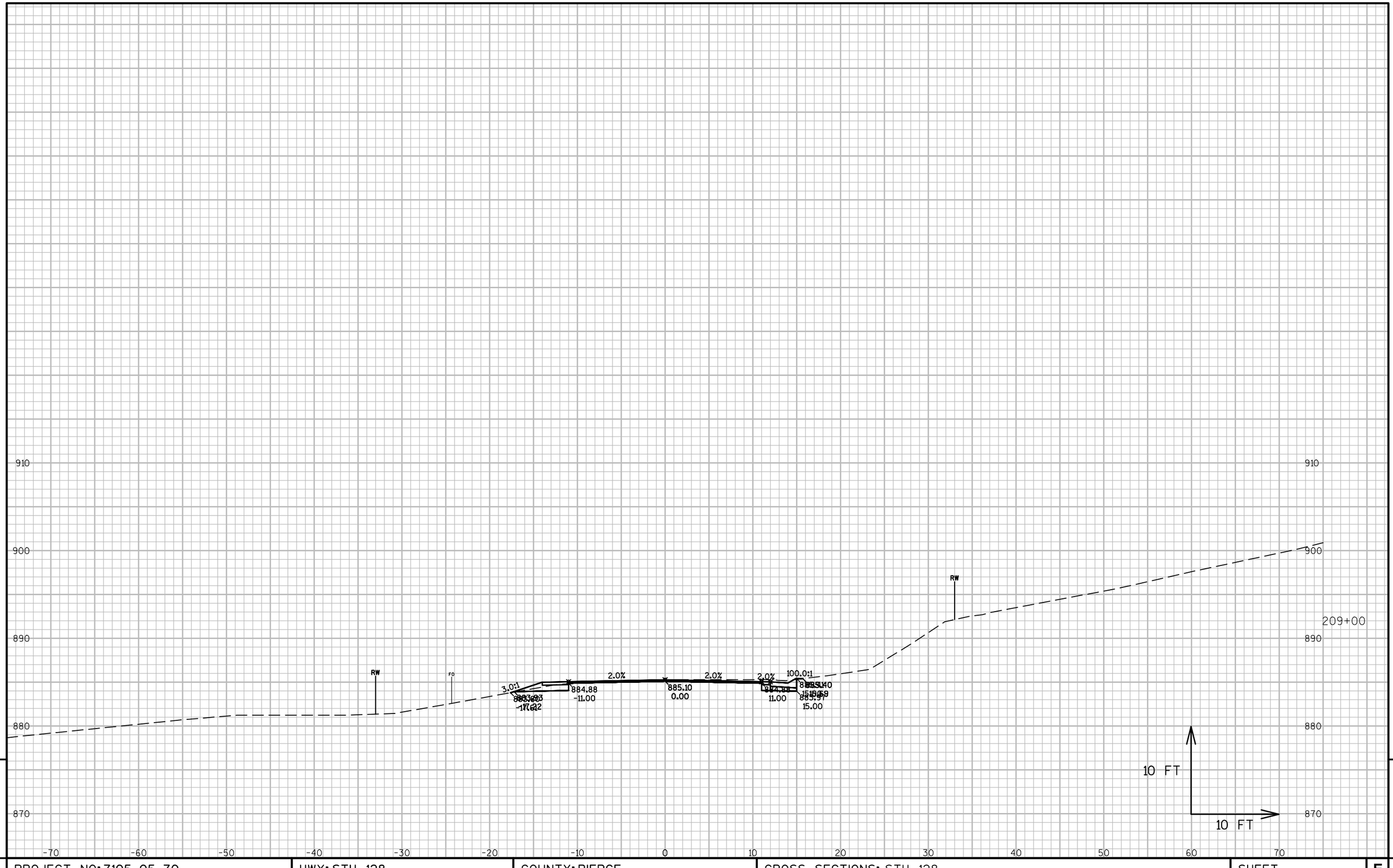
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 280	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 233
PLOT DATE : 7/29/2016 1:50 PM
PLOT BY : ADAM OSYPOWSKI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 281	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 234
PLOT DATE : 7/29/2016 1:50 PM
PLOT BY : ADAM OSYPOWSKI
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 282	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 235

PLOT DATE : 7/29/2016 1:51 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



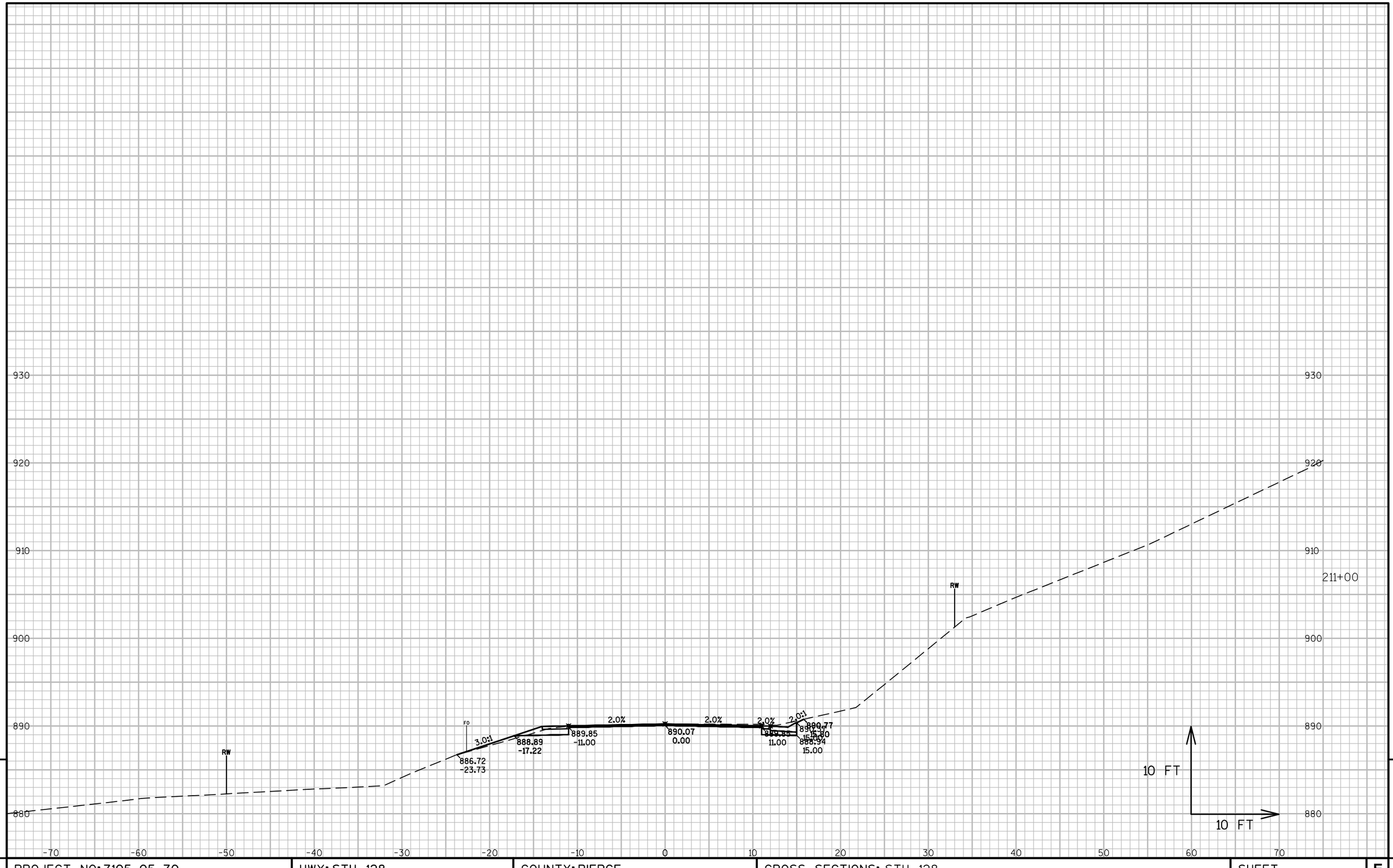
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 283	E

9

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 236

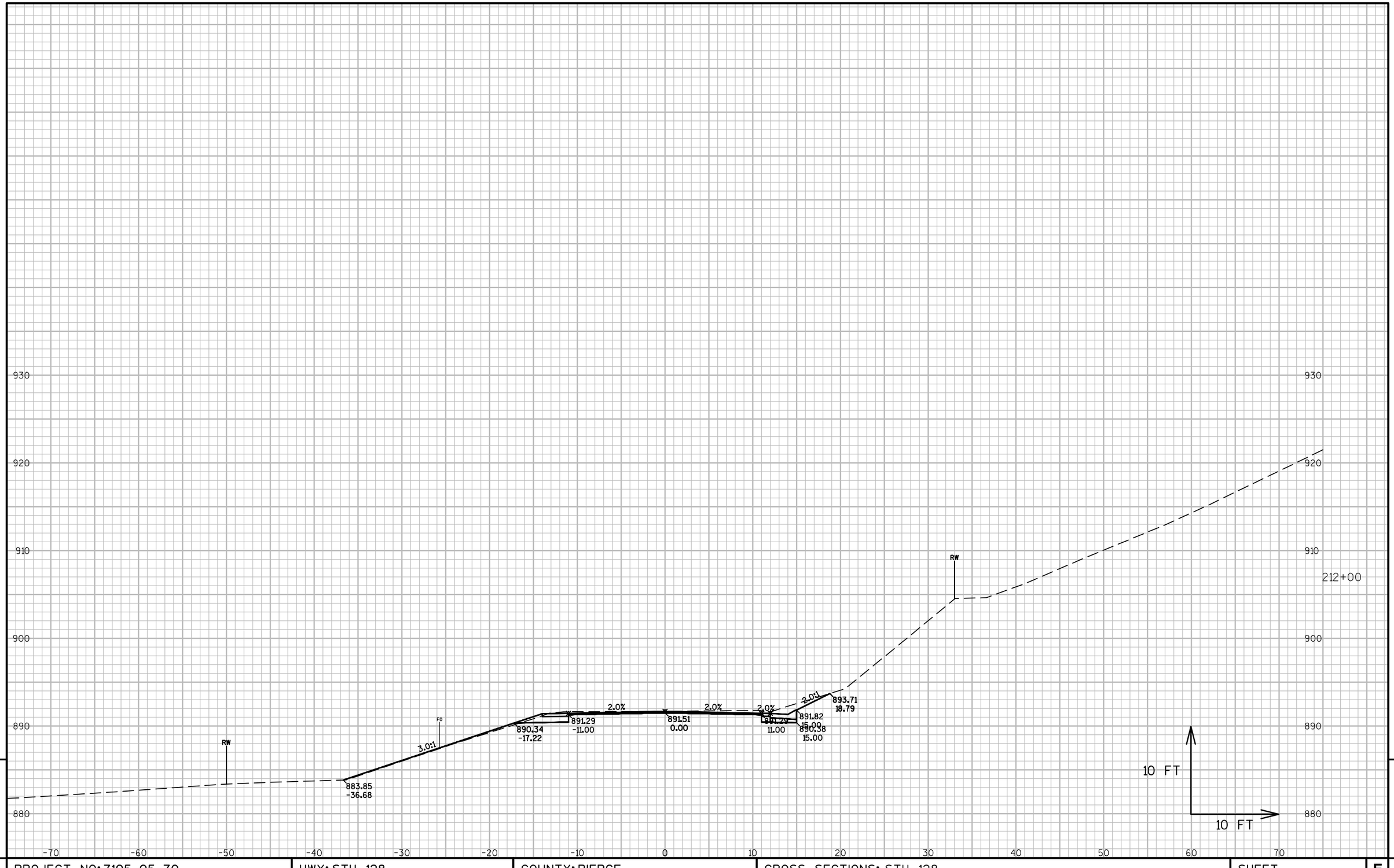
PLOT DATE : 7/29/2016 1:52 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 284	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 237

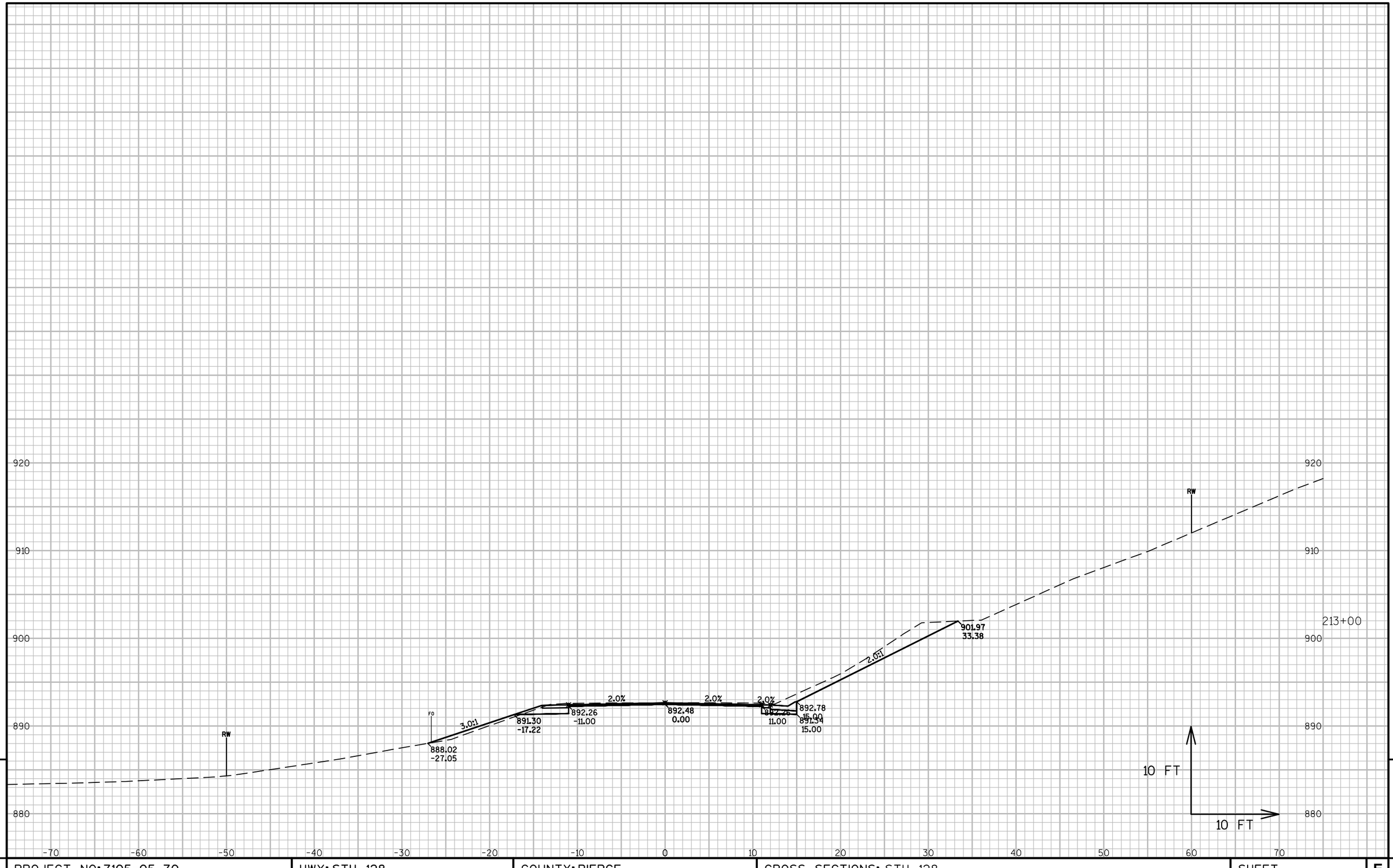
PLOT DATE : 7/29/2016 1:53 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 285	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 238

PLOT DATE : 7/29/2016 1:53 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

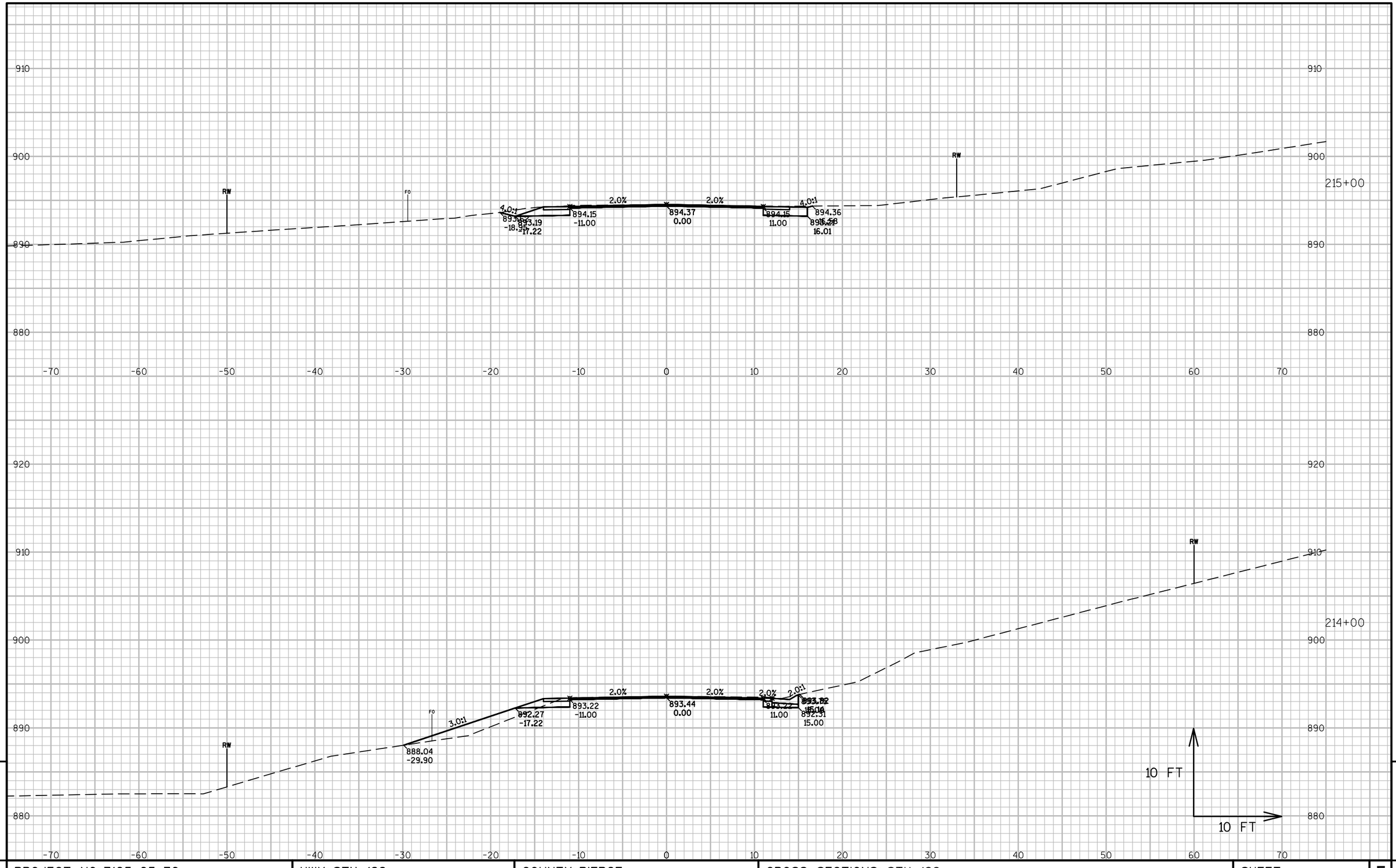


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 286	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 239

PLOT DATE : 7/29/2016 1:54 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



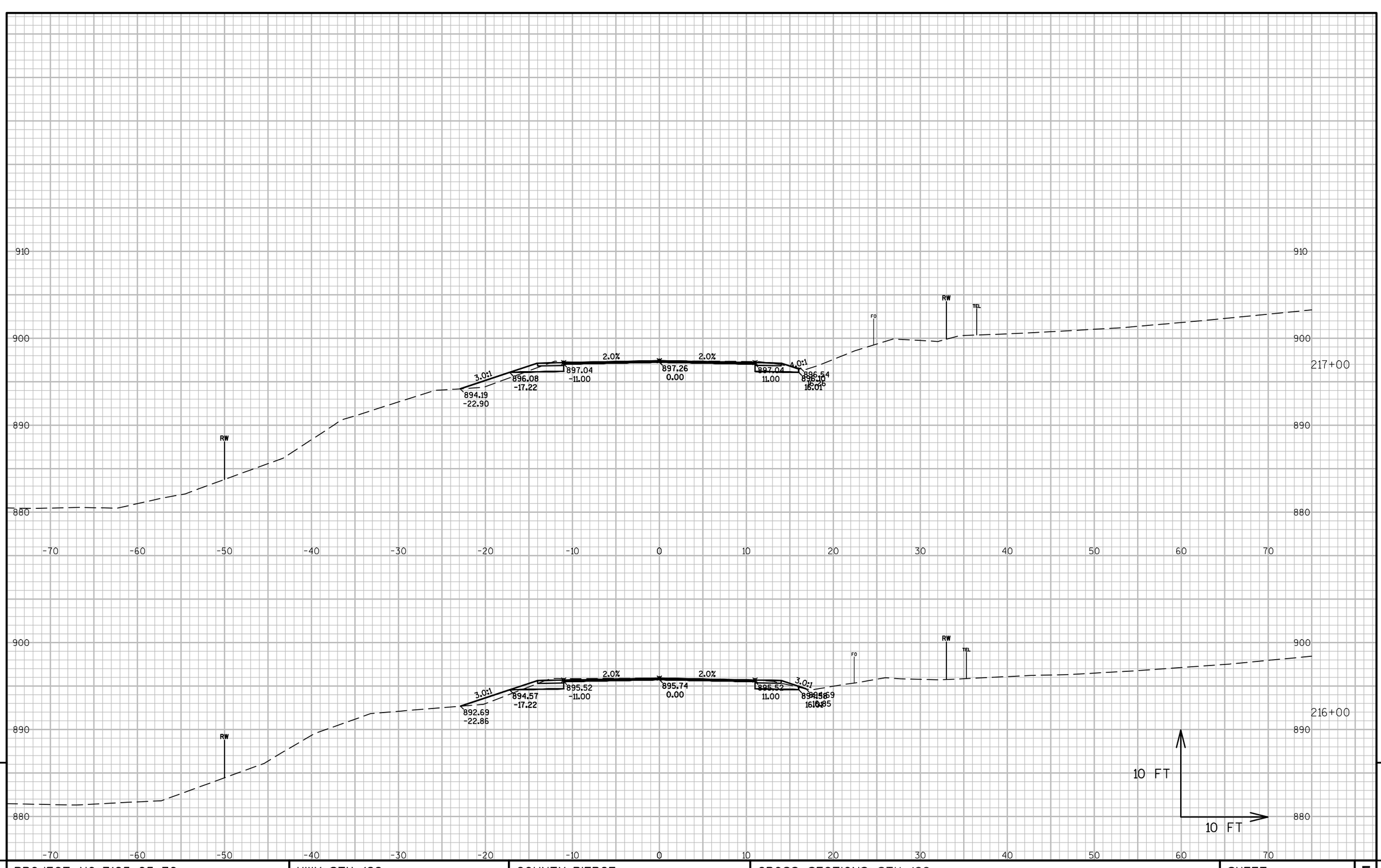
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 287	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 240

PLOT DATE : 7/29/2016 1:55 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

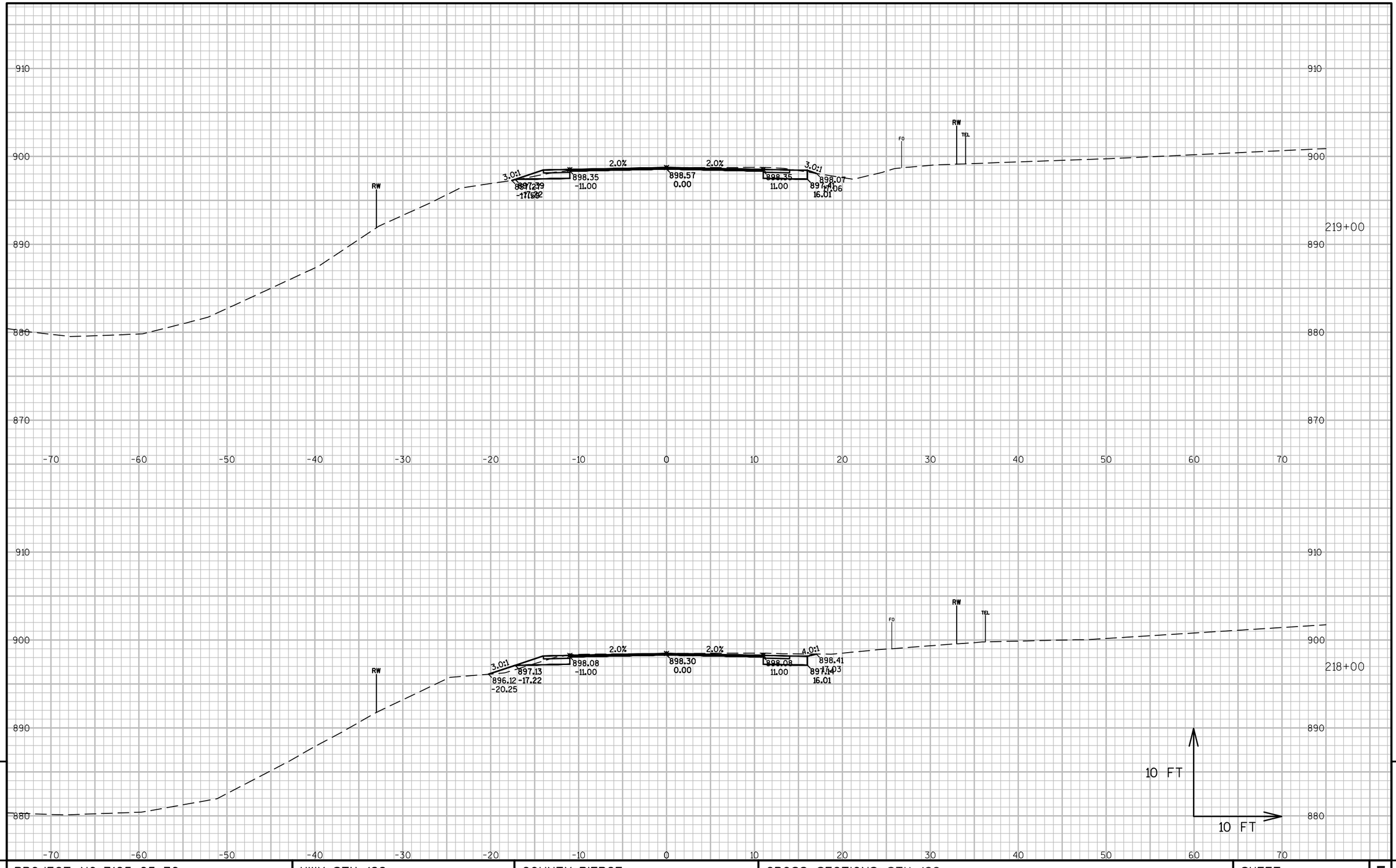
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 288	E

9

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 241

PLOT DATE : 7/29/2016 1:55 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

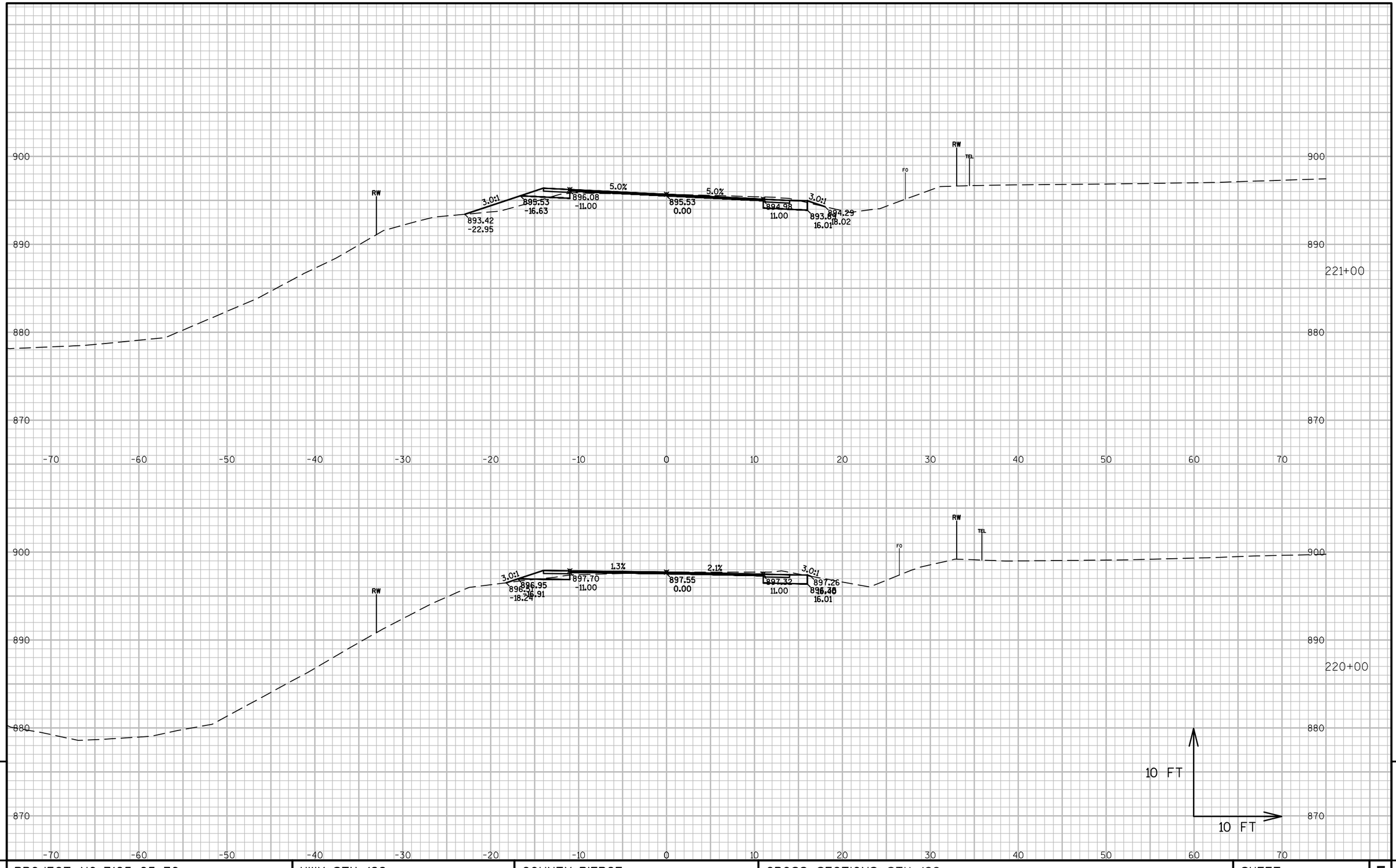


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 289	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 242

PLOT DATE : 7/29/2016 1:56 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

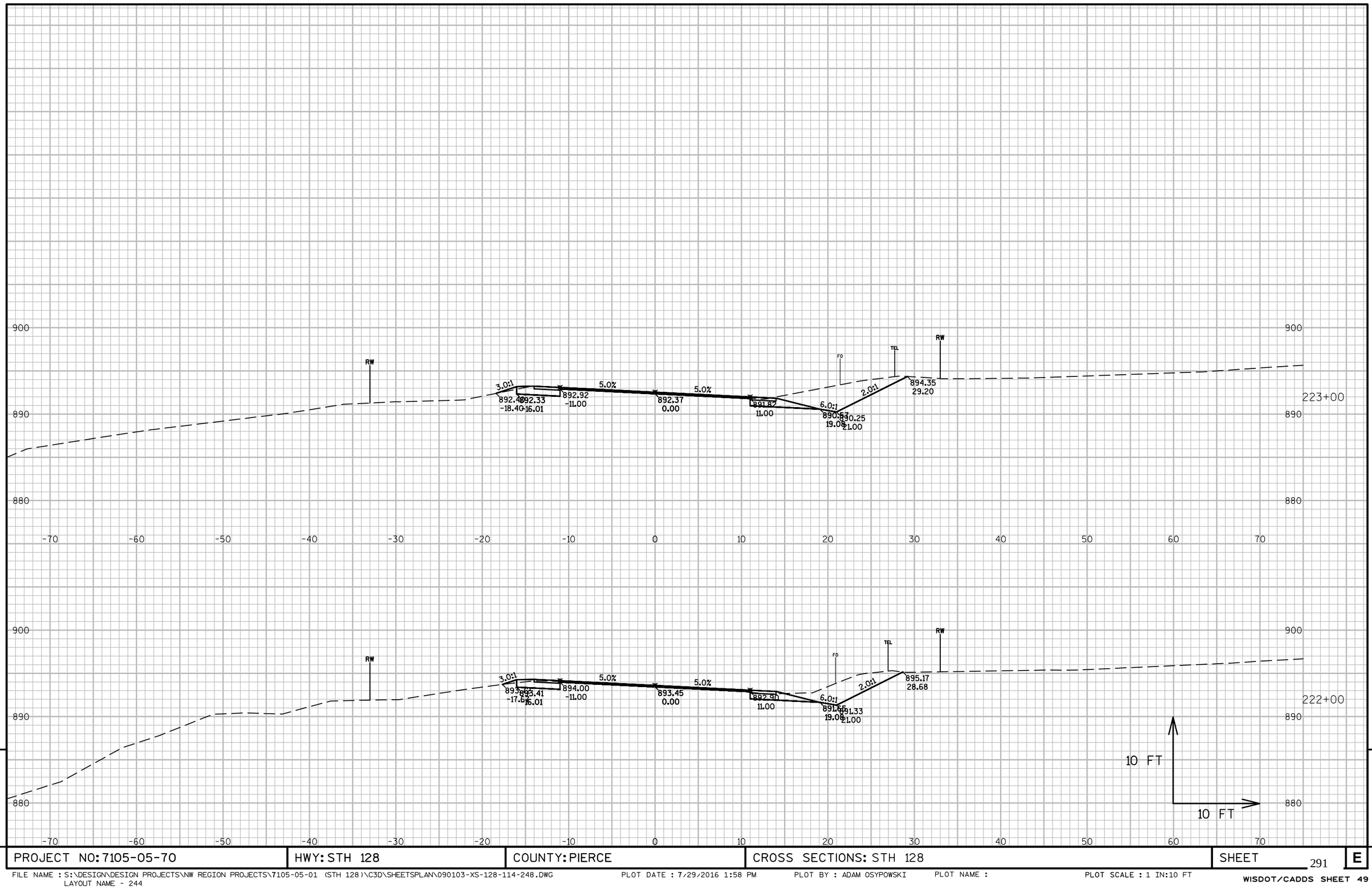


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 290	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 243

PLOT DATE : 7/29/2016 1:57 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

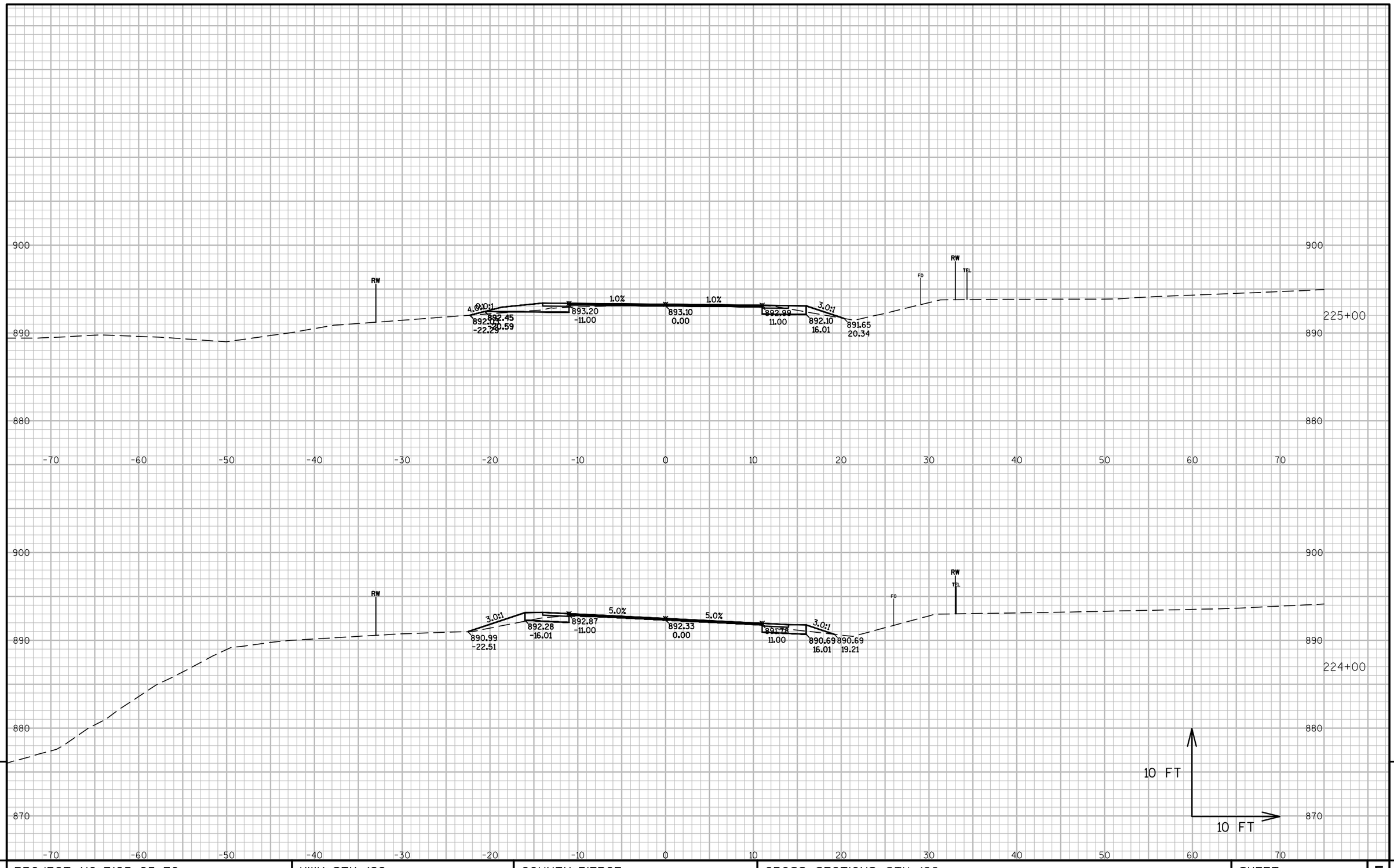


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 291	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 244

PLOT DATE : 7/29/2016 1:58 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

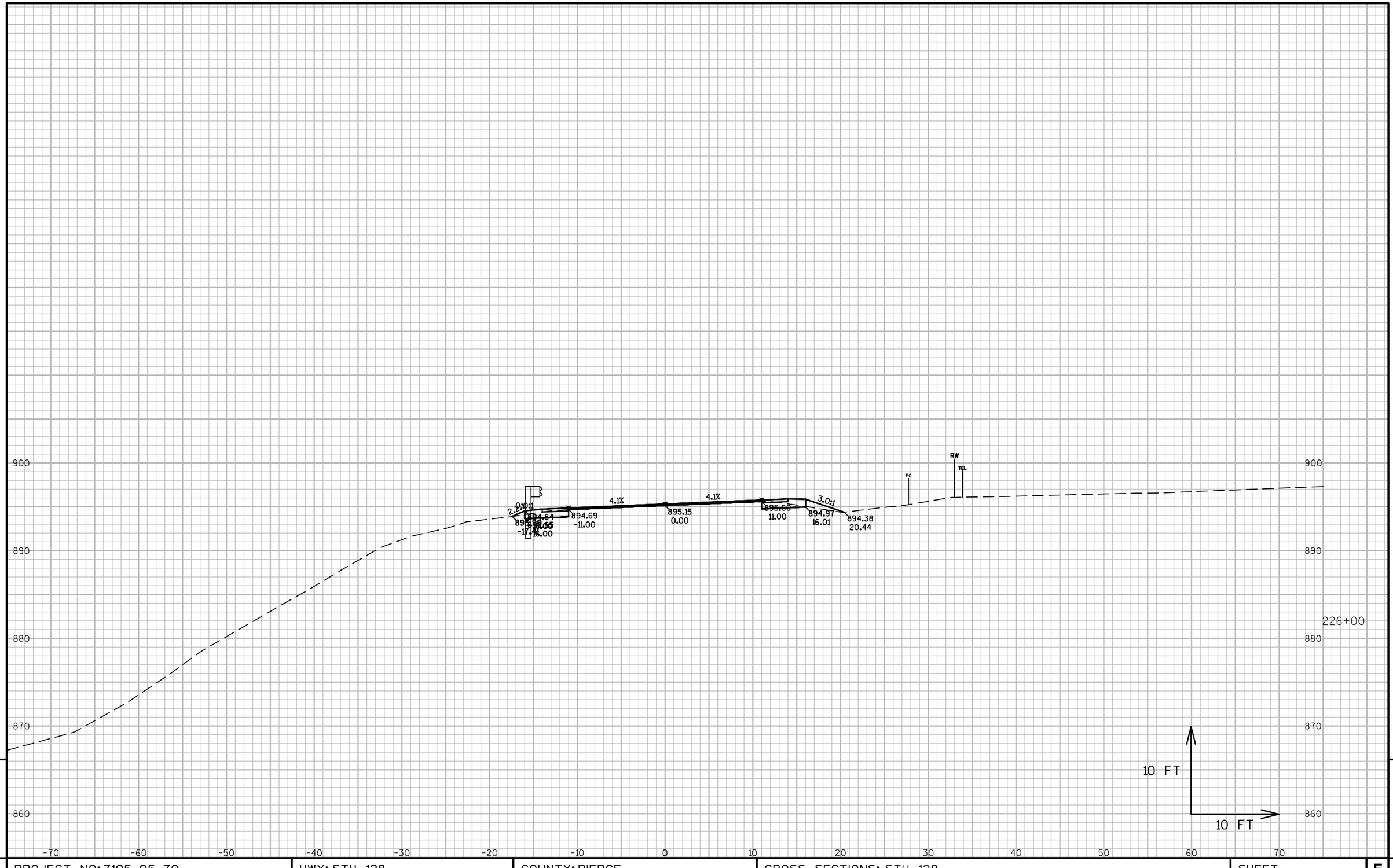
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 292	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 245

PLOT DATE : 7/29/2016 1:58 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

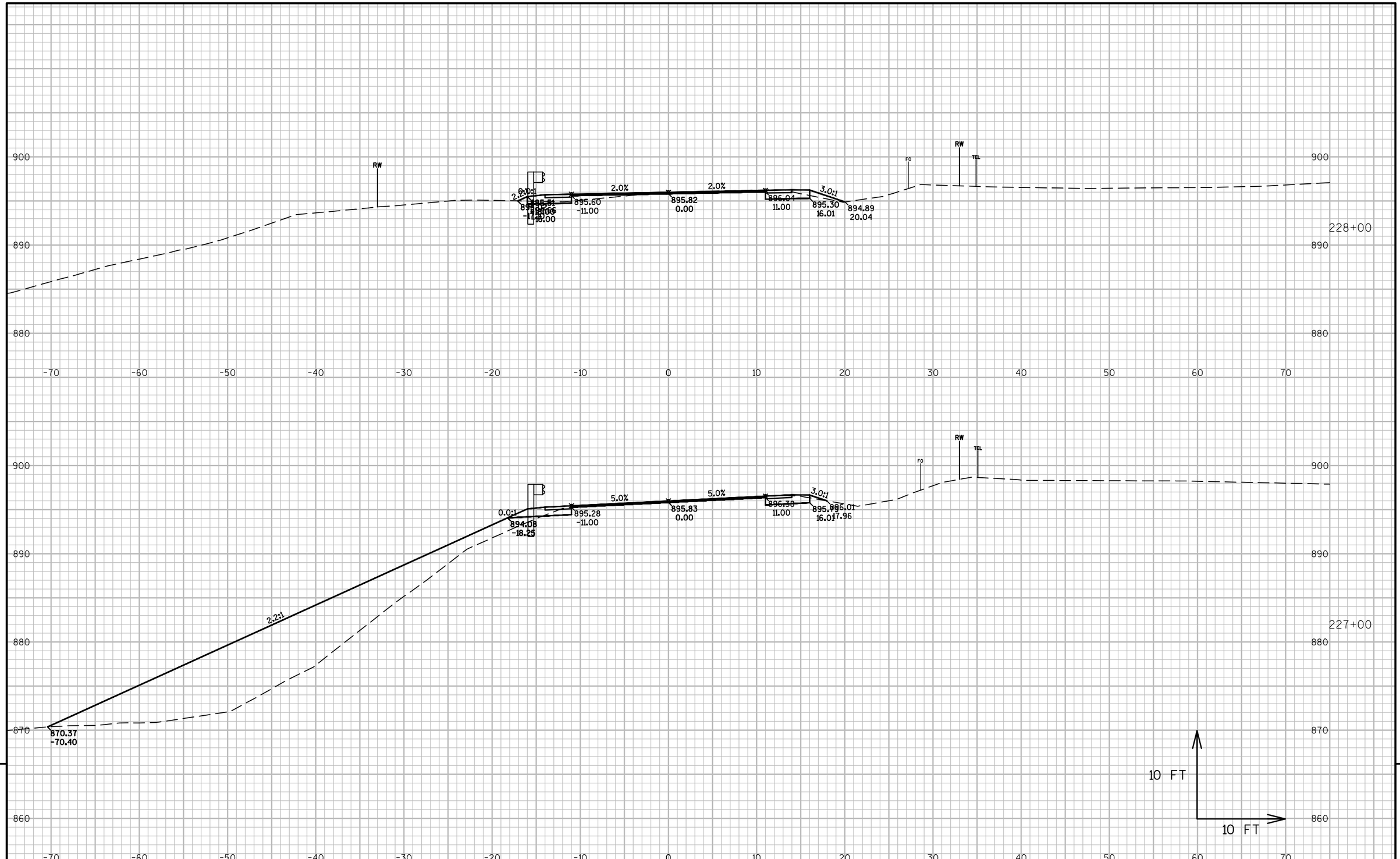
9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 293	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 246

PLOT DATE : 7/29/2016 1:59 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

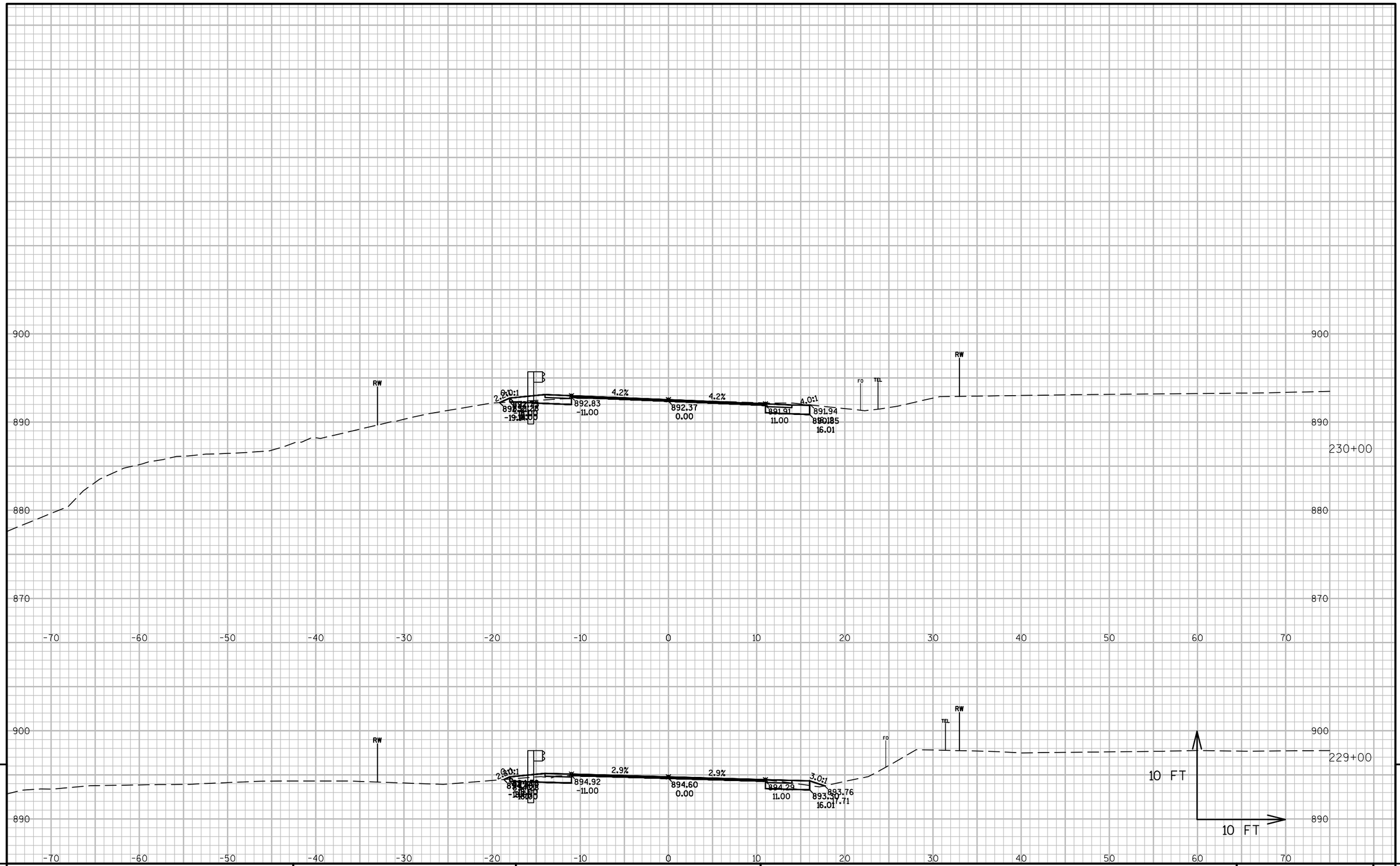


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 294	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 247

PLOT DATE : 7/29/2016 2:00 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 295	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 248

PLOT DATE : 7/29/2016 2:00 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

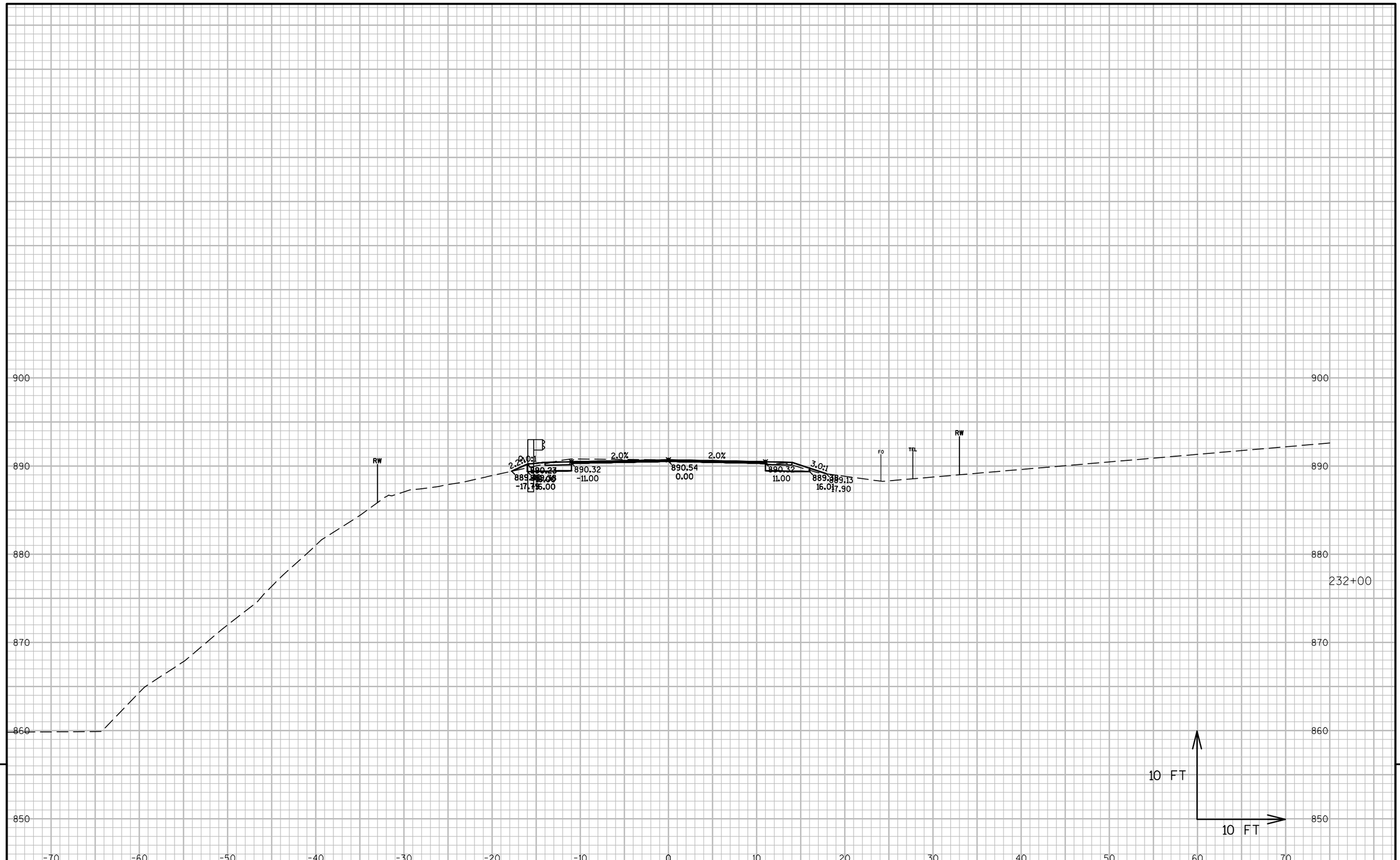
9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 296	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 249

PLOT DATE : 7/29/2016 2:01 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

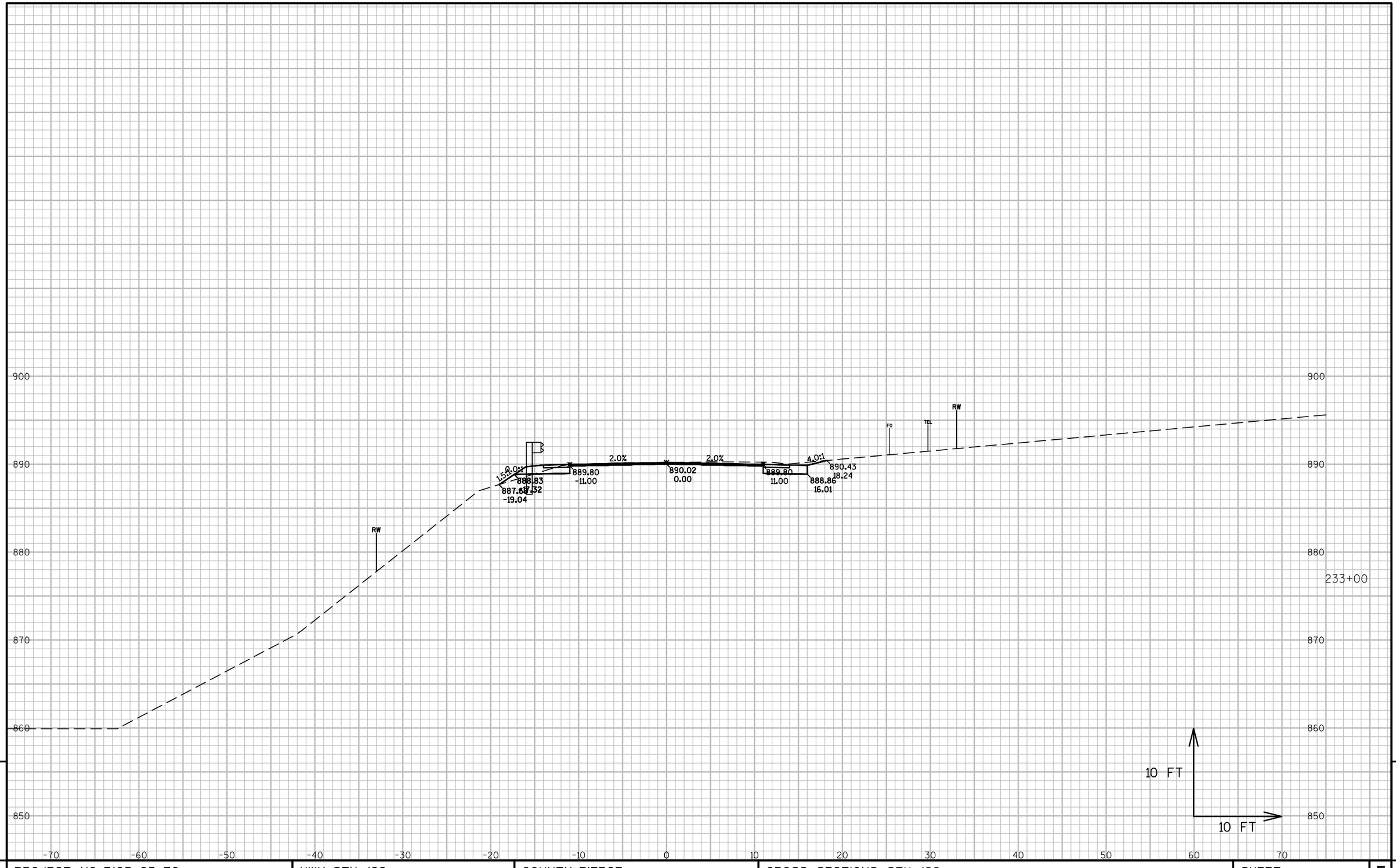
WISDOT/CADDS SHEET 49



9

9

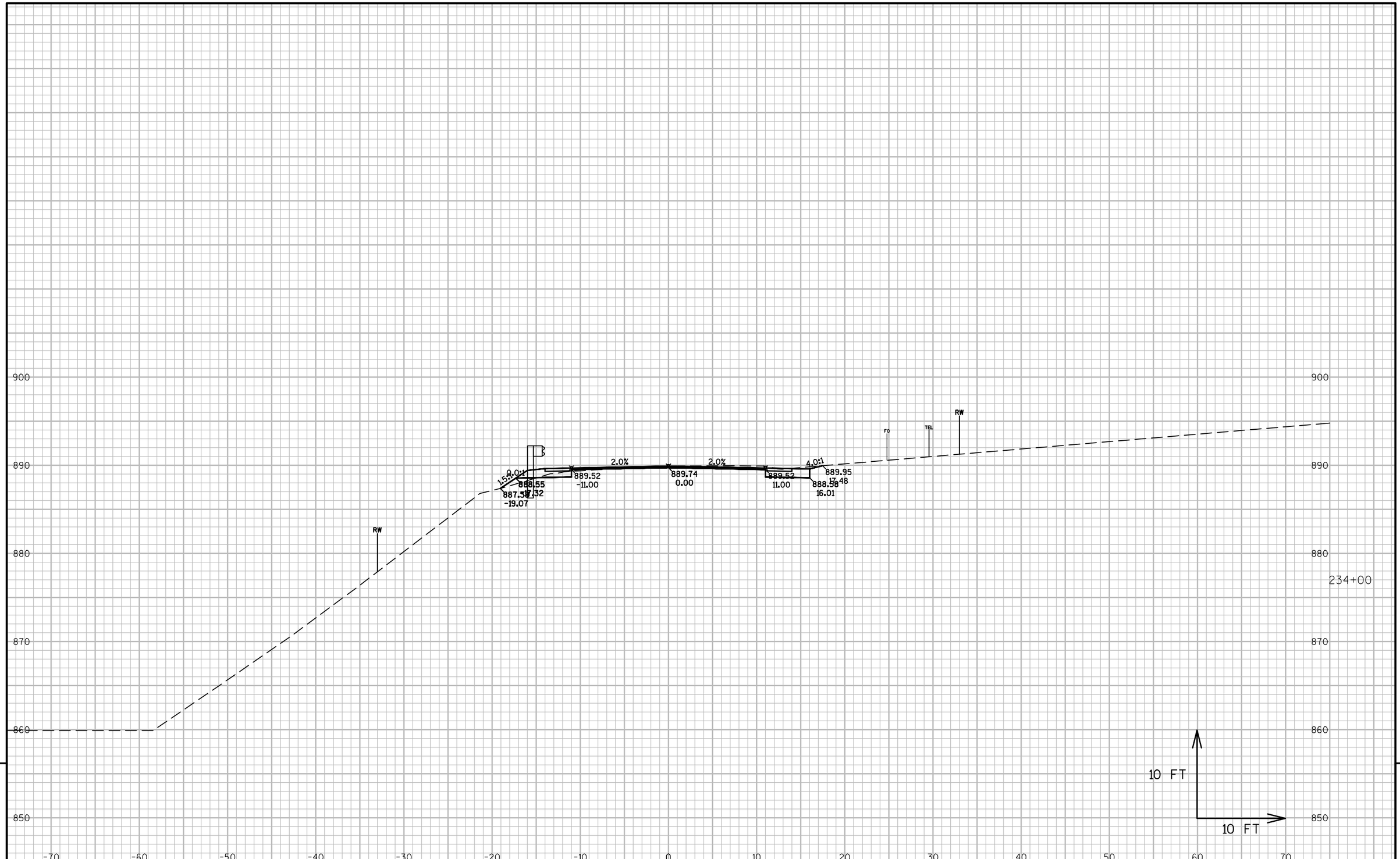
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 297	E



9	PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 298 E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 251

PLOT DATE : 7/29/2016 2:02 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

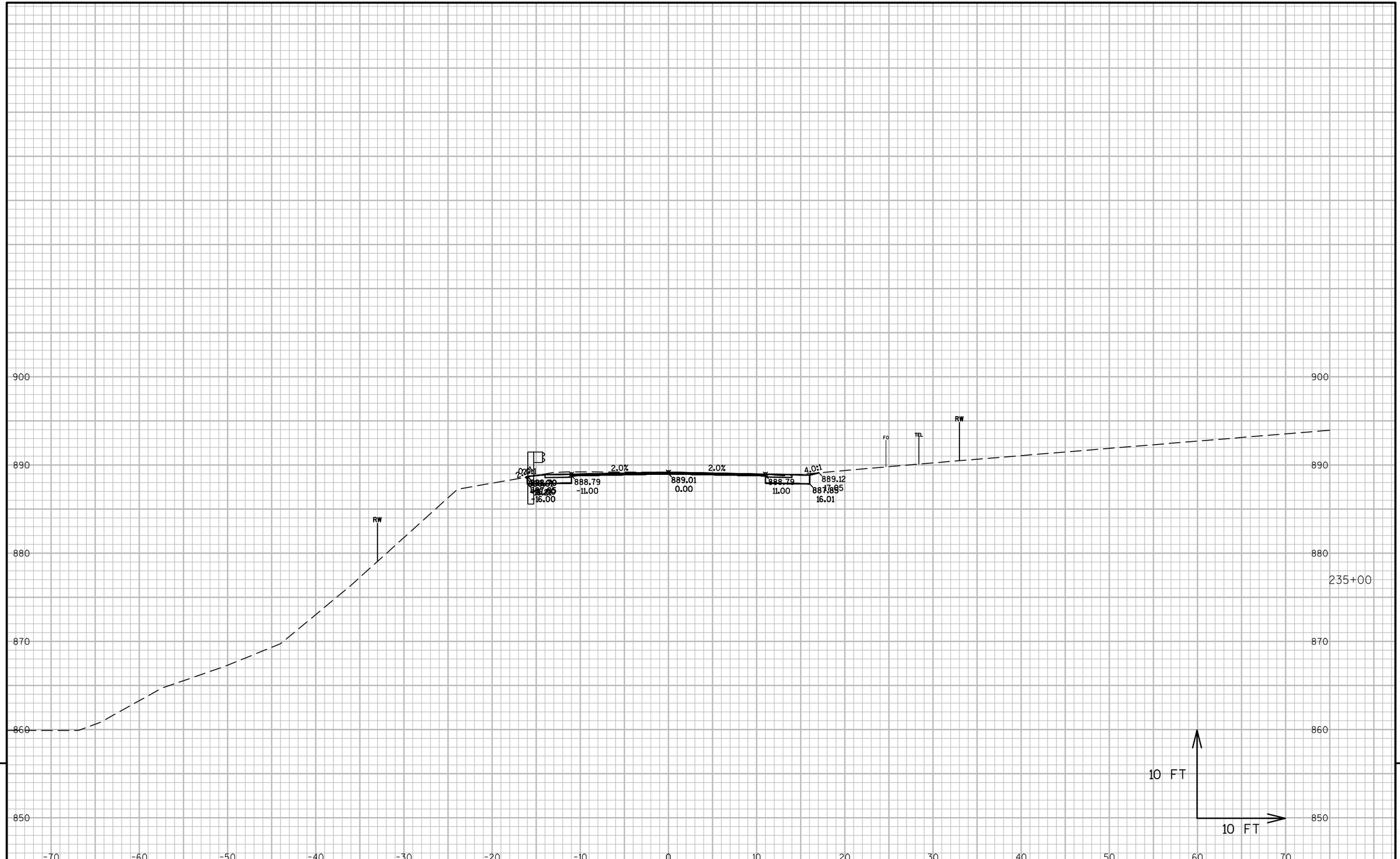
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 299	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 252

PLOT DATE : 7/29/2016 2:03 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 300	E



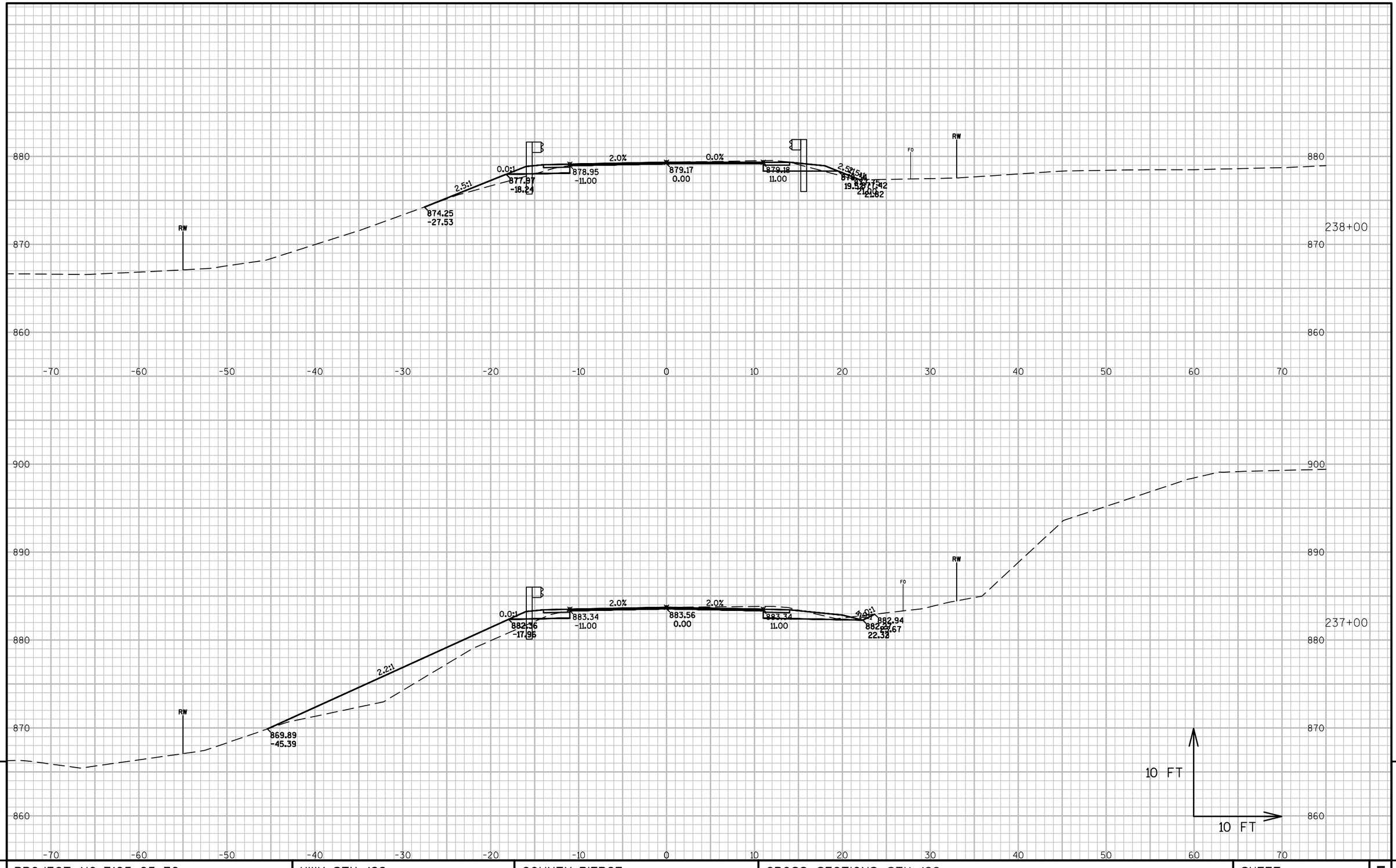
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 301	E

9

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 254

PLOT DATE : 7/29/2016 2:04 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

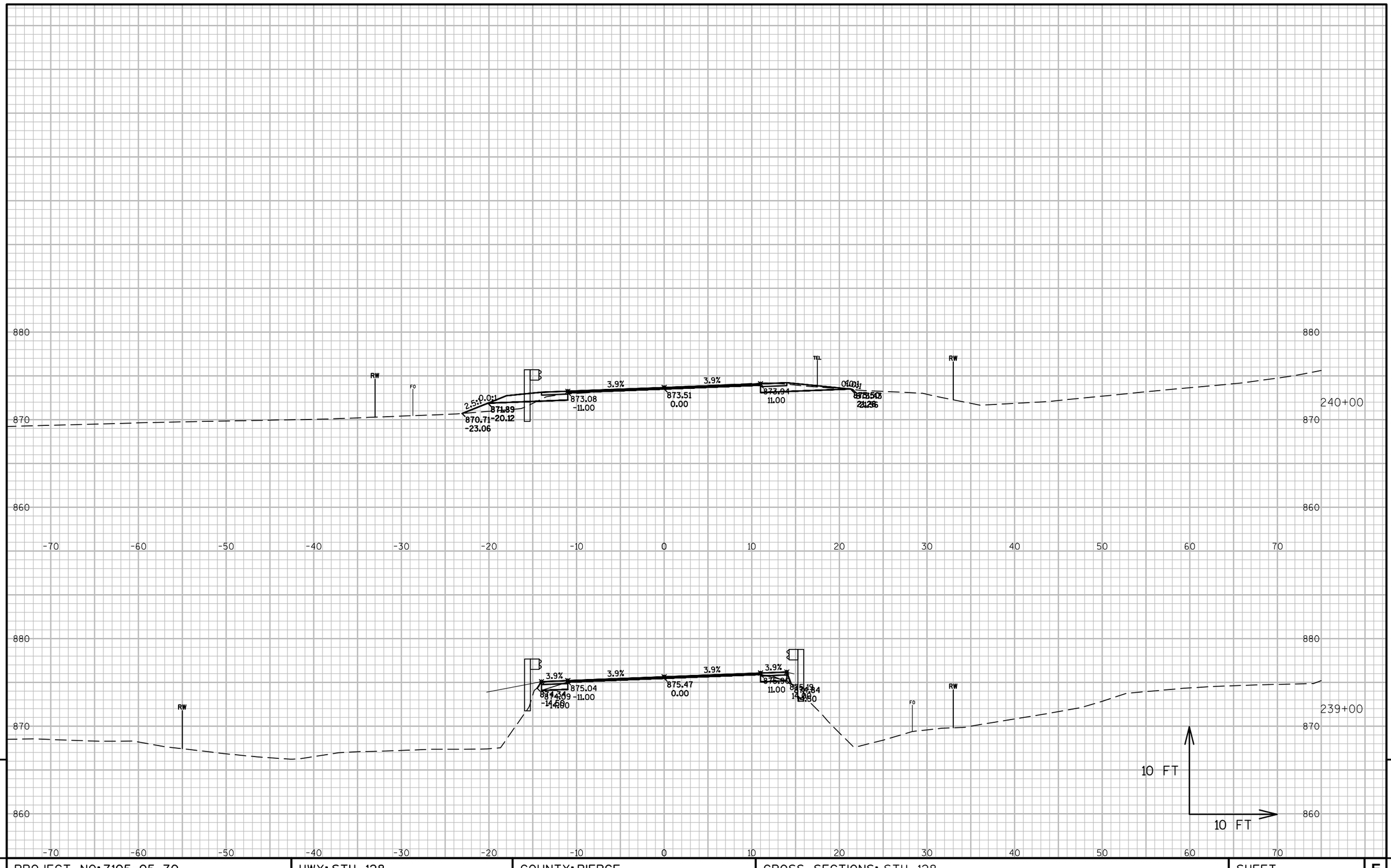
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 302	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 255

PLOT DATE : 7/29/2016 2:05 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

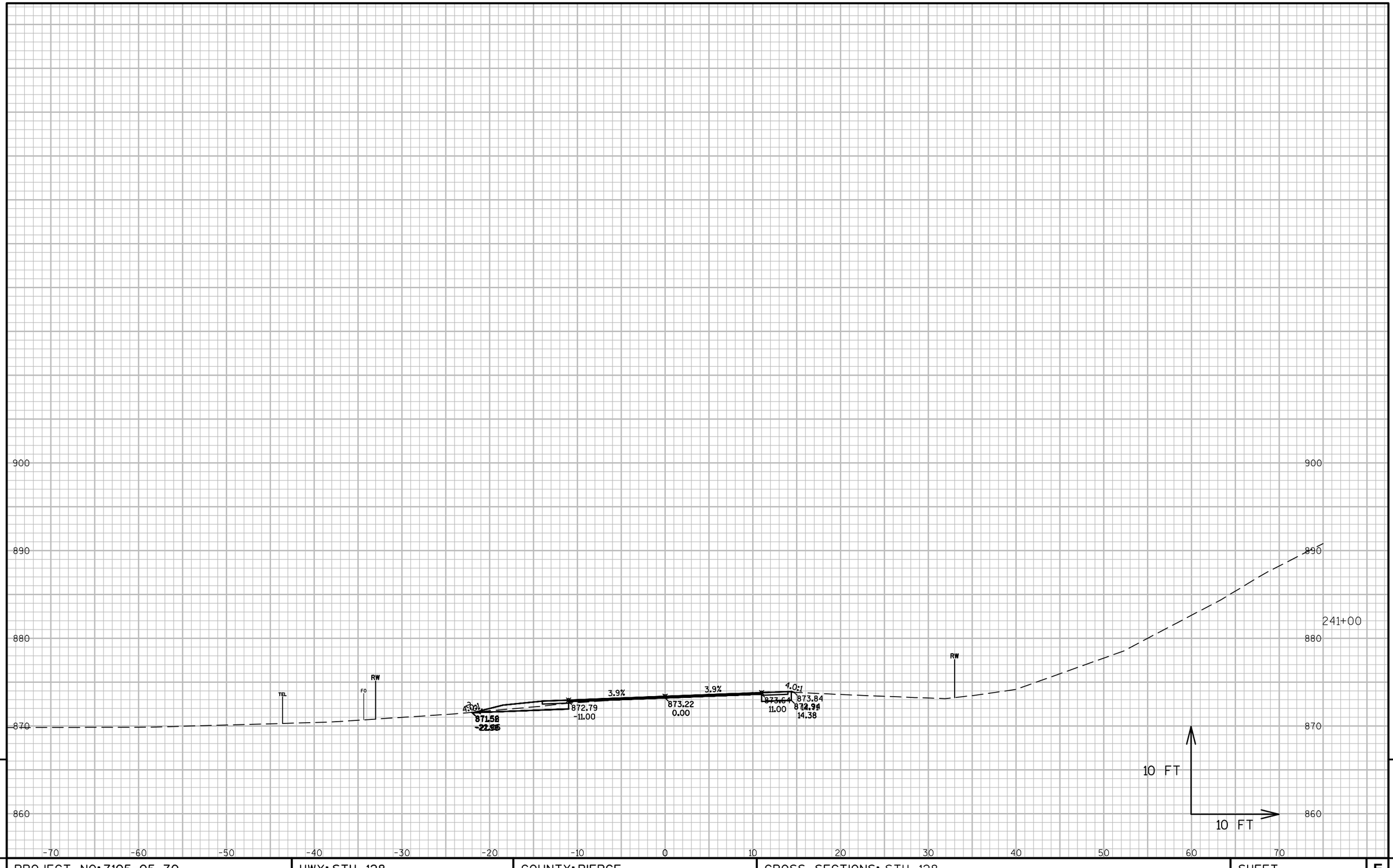


PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 303	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 256

PLOT DATE : 7/29/2016 2:06 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



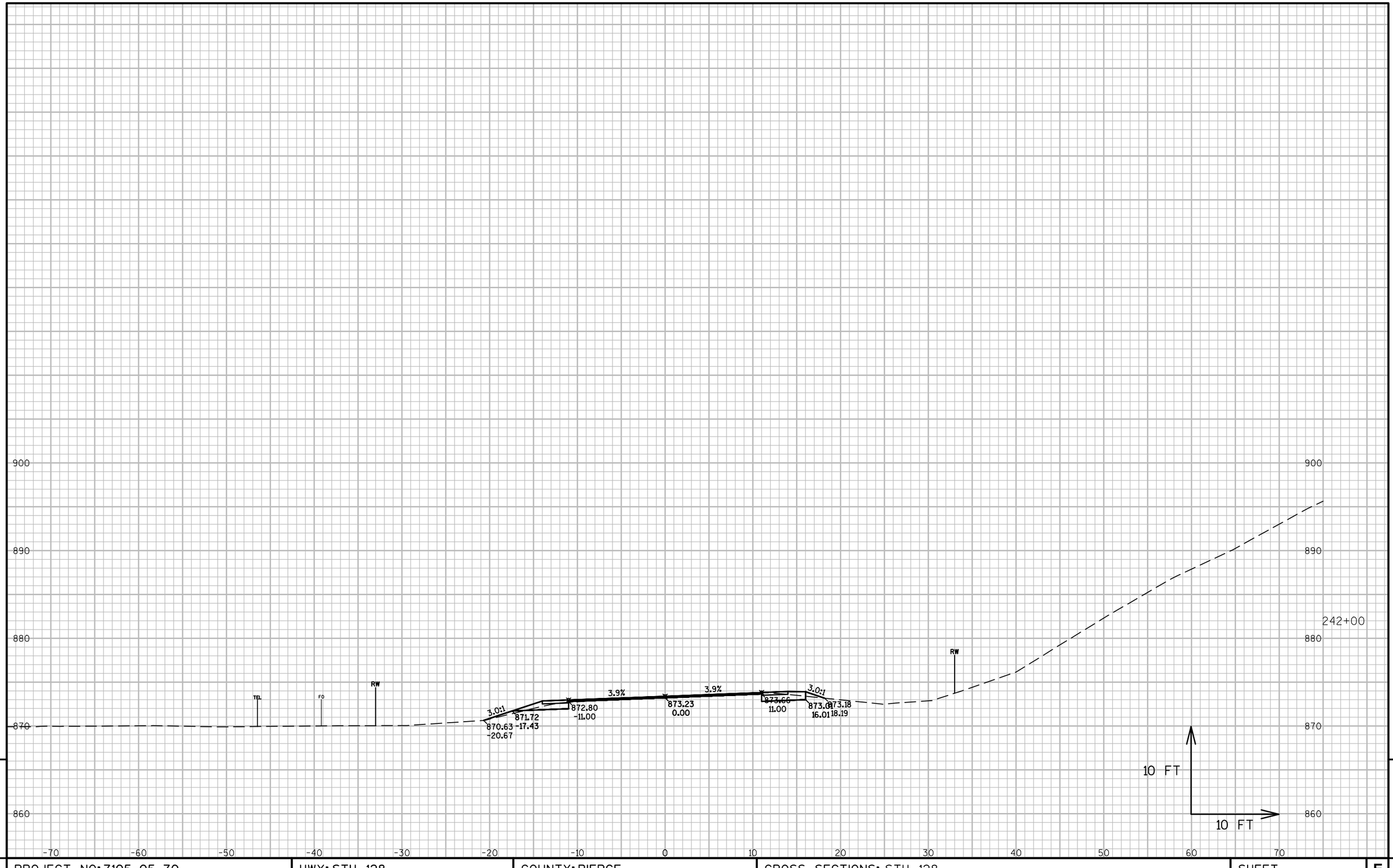
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 304	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 257

PLOT DATE : 7/29/2016 2:06 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



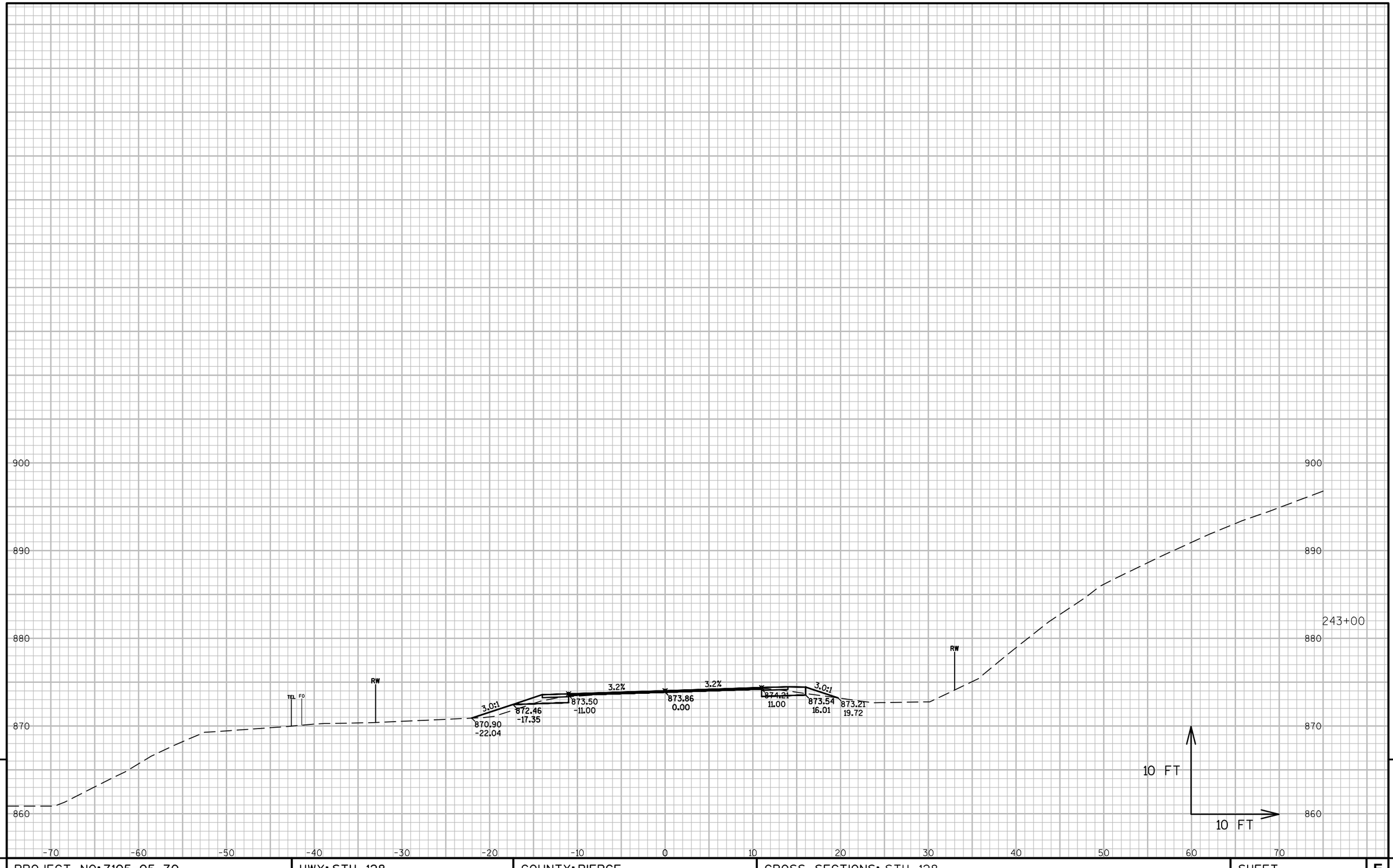
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 305	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 258

PLOT DATE : 7/29/2016 2:07 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



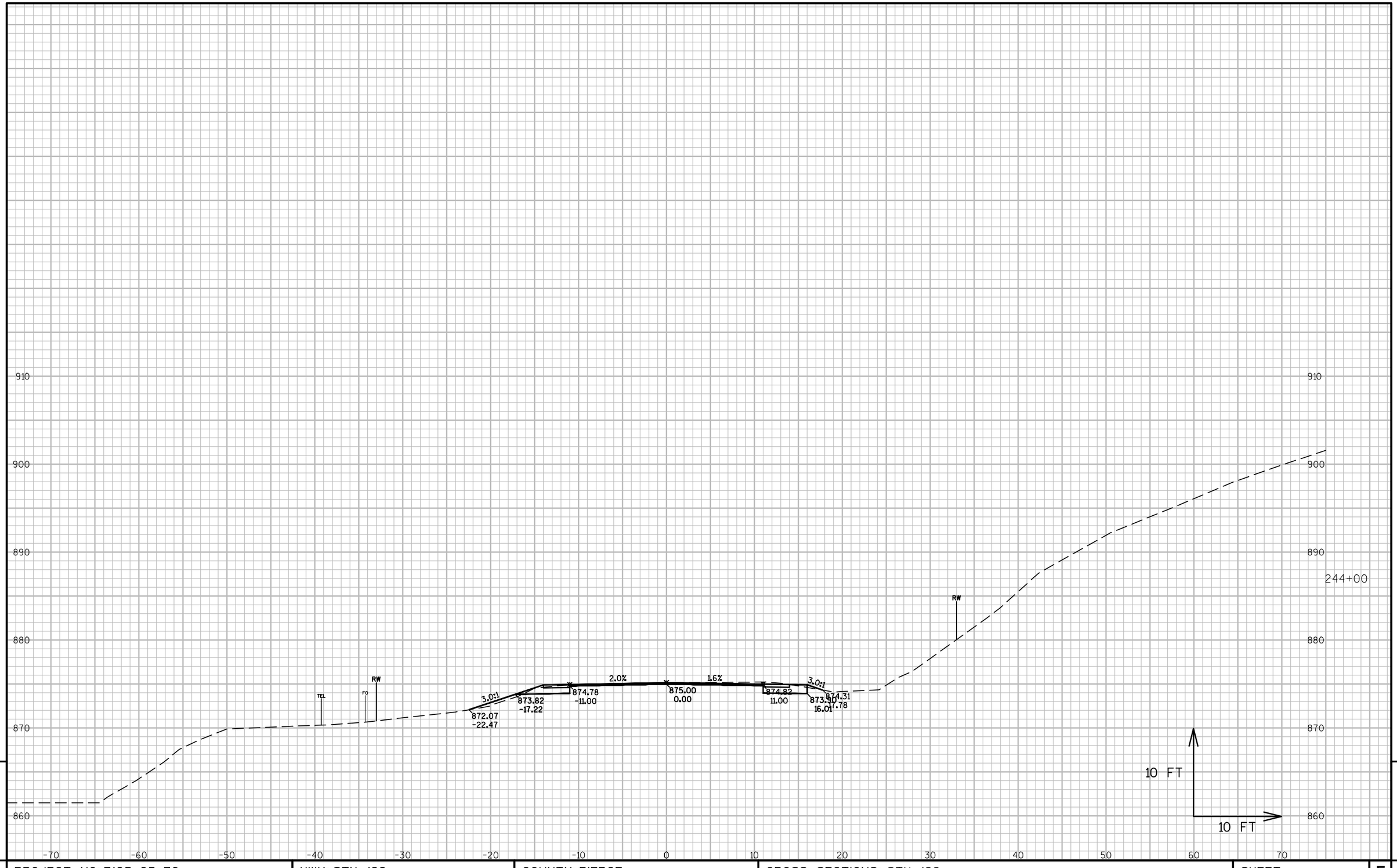
9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 306	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 259

PLOT DATE : 7/29/2016 2:08 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



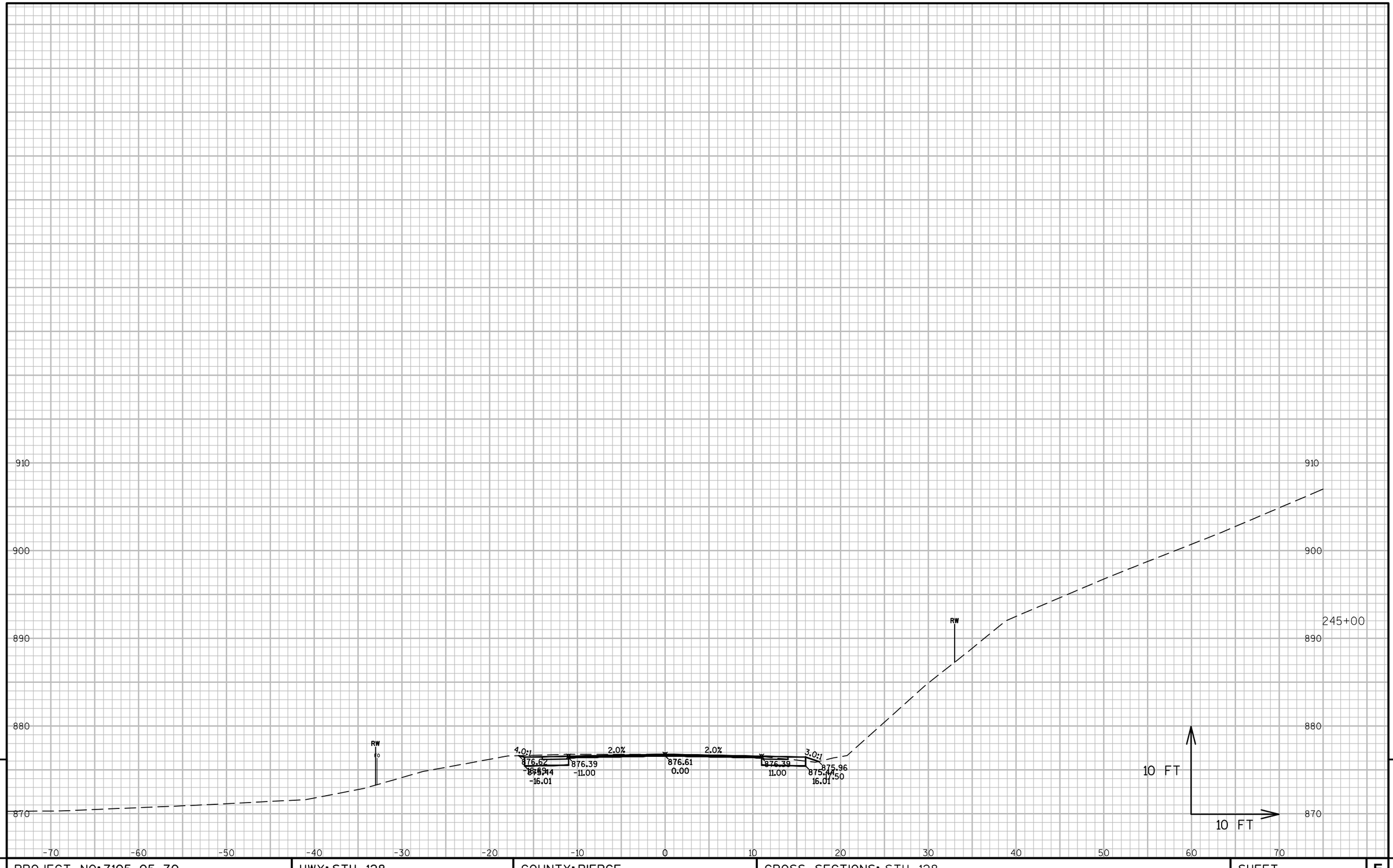
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9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 307	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 260

PLOT DATE : 7/29/2016 2:08 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

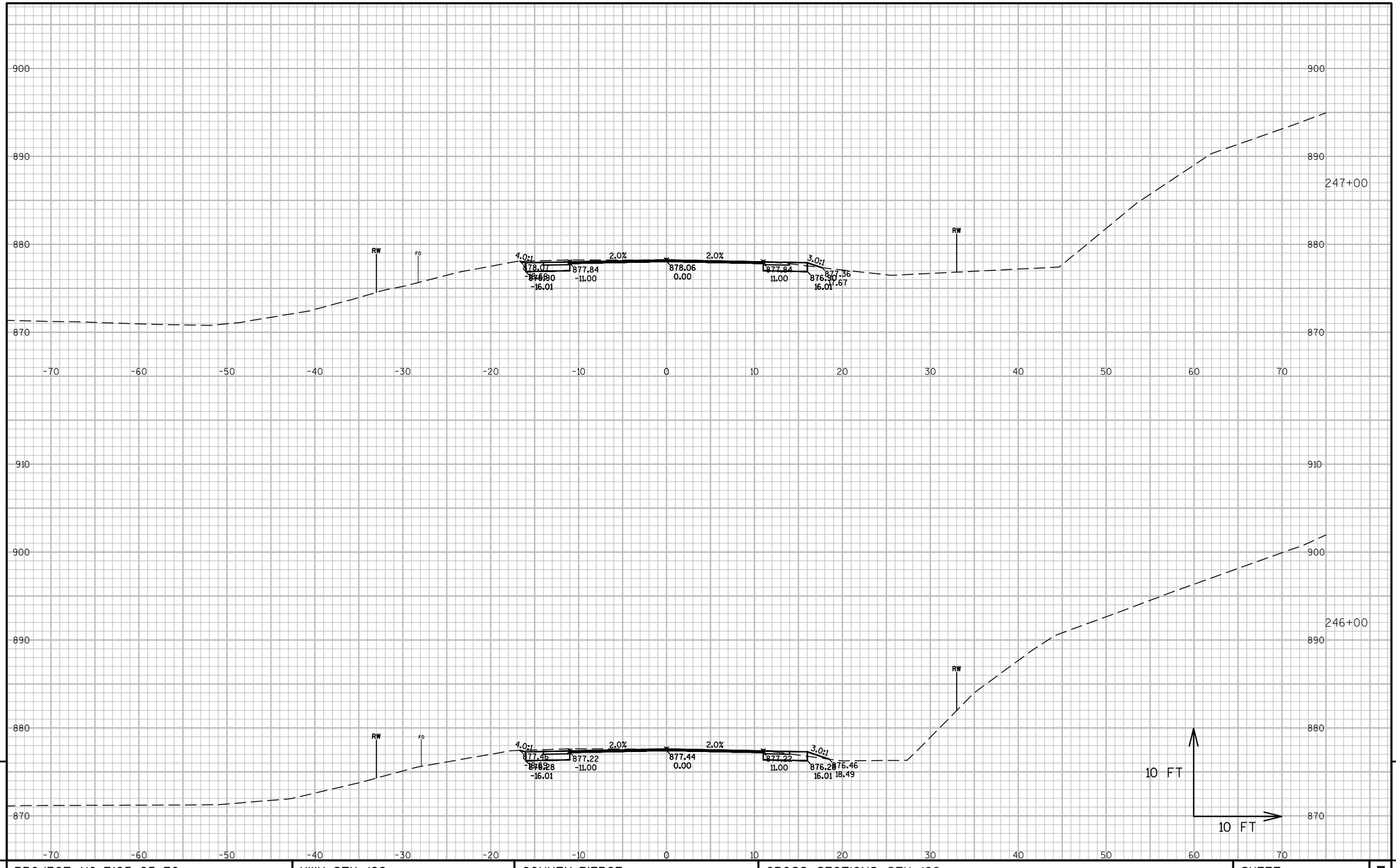
9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 308	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 261

PLOT DATE : 7/29/2016 2:09 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

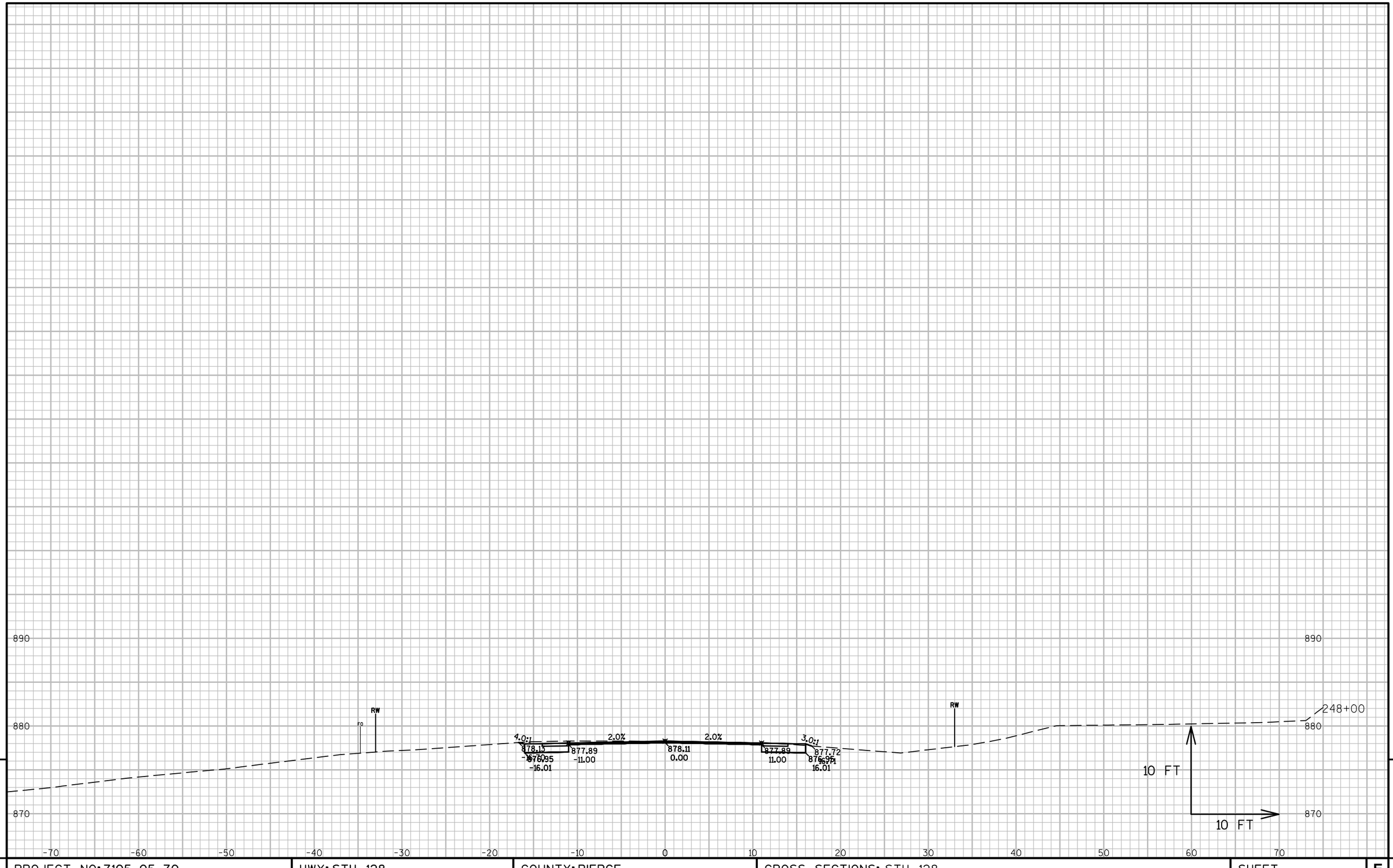
9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 309	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 262

PLOT DATE : 7/29/2016 2:10 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

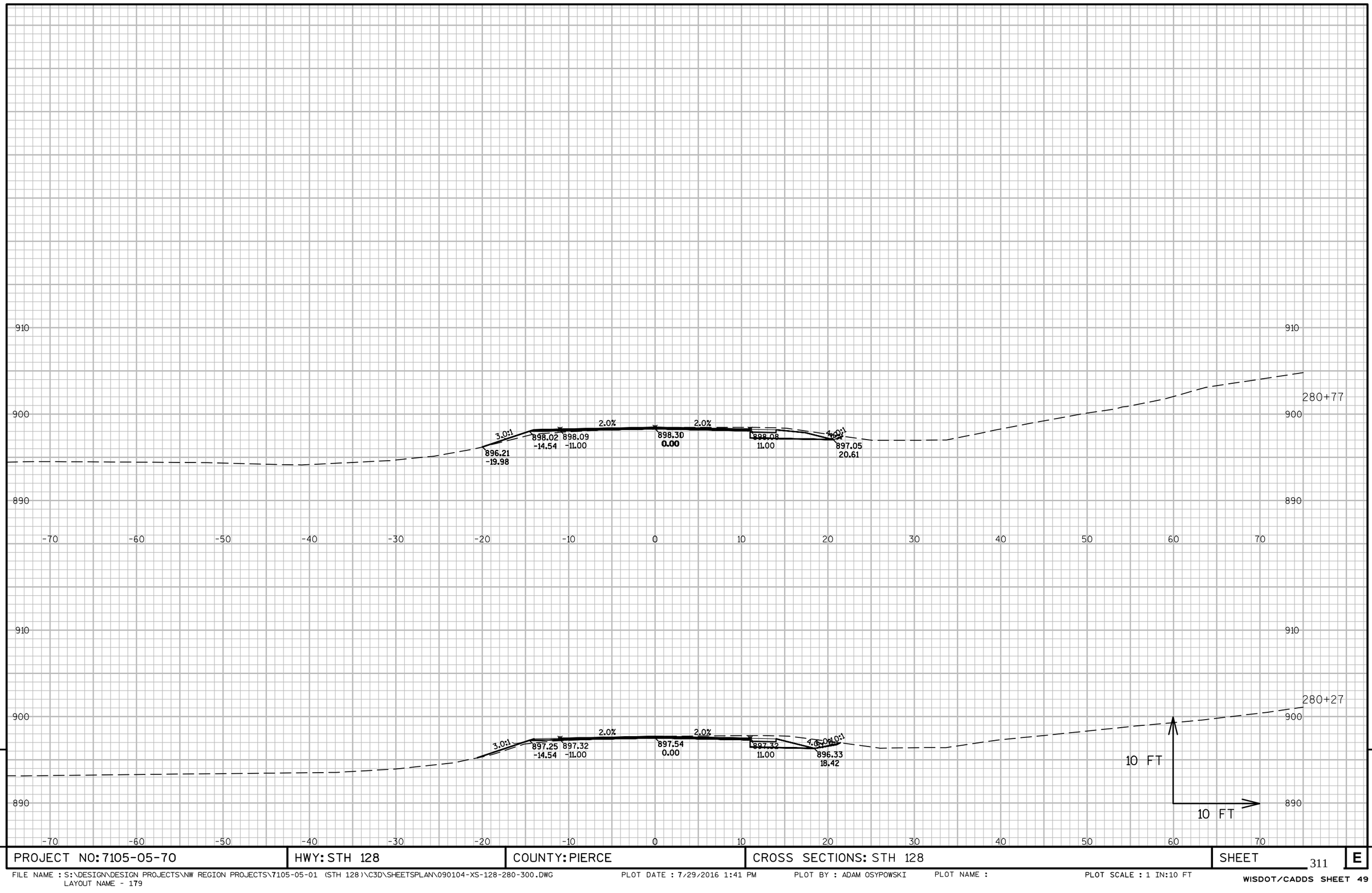
9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 310	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090103-XS-128-114-248.DWG
LAYOUT NAME - 263

PLOT DATE : 7/29/2016 2:11 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

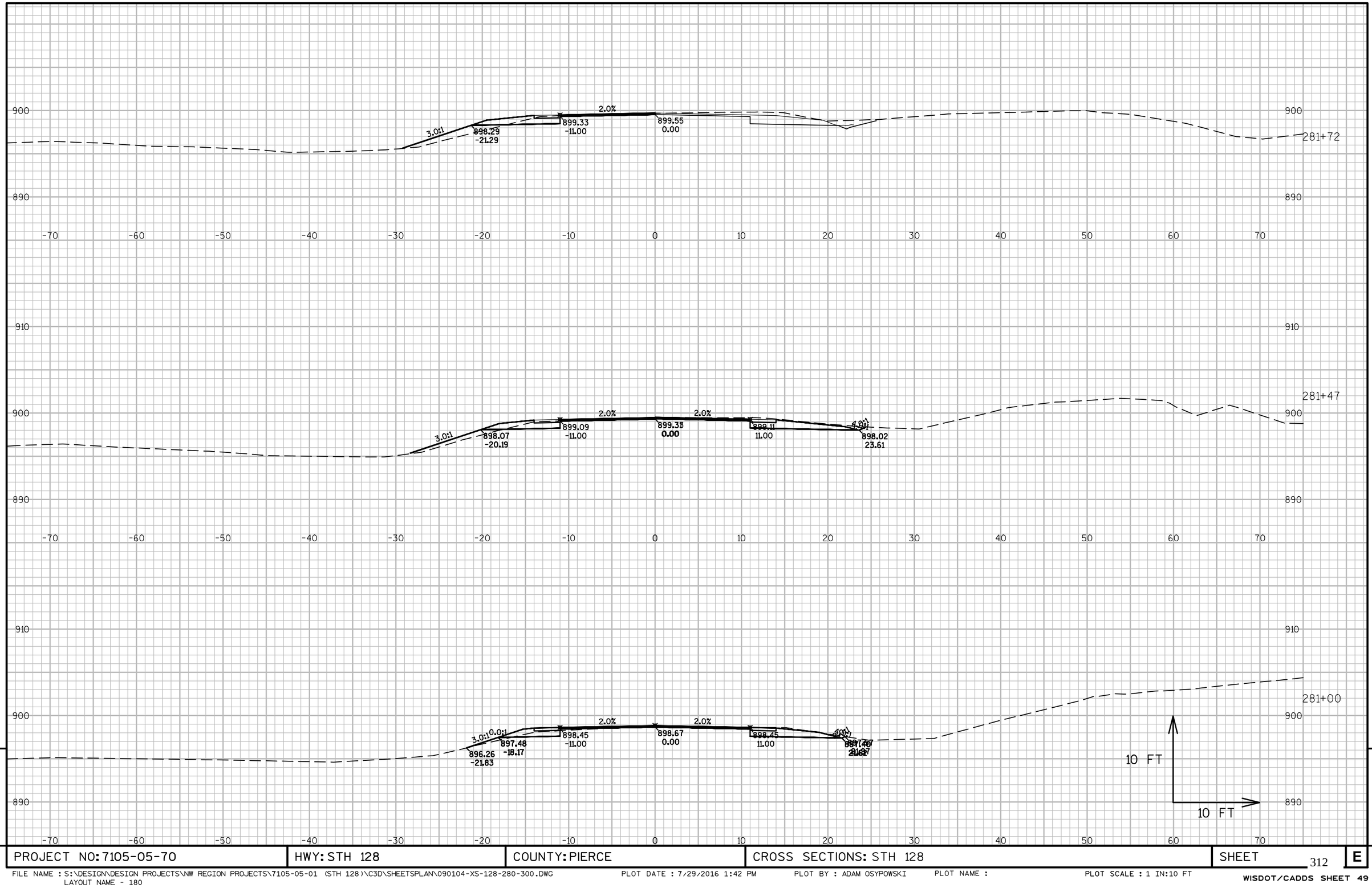
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PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 311	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090104-XS-128-280-300.DWG
LAYOUT NAME - 179

PLOT DATE : 7/29/2016 1:41 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

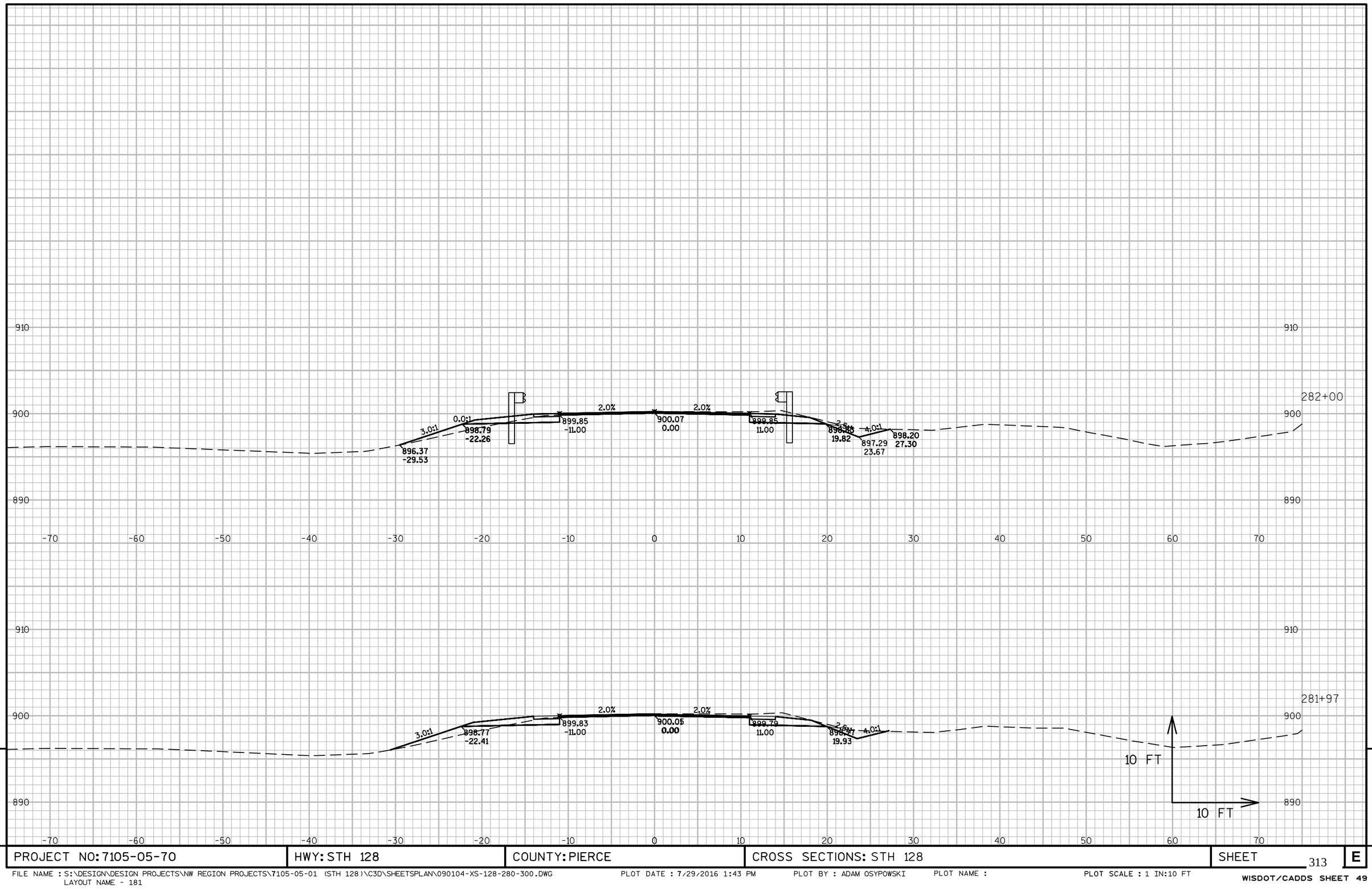
9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 312	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090104-XS-128-280-300.DWG
LAYOUT NAME - 180

PLOT DATE : 7/29/2016 1:42 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

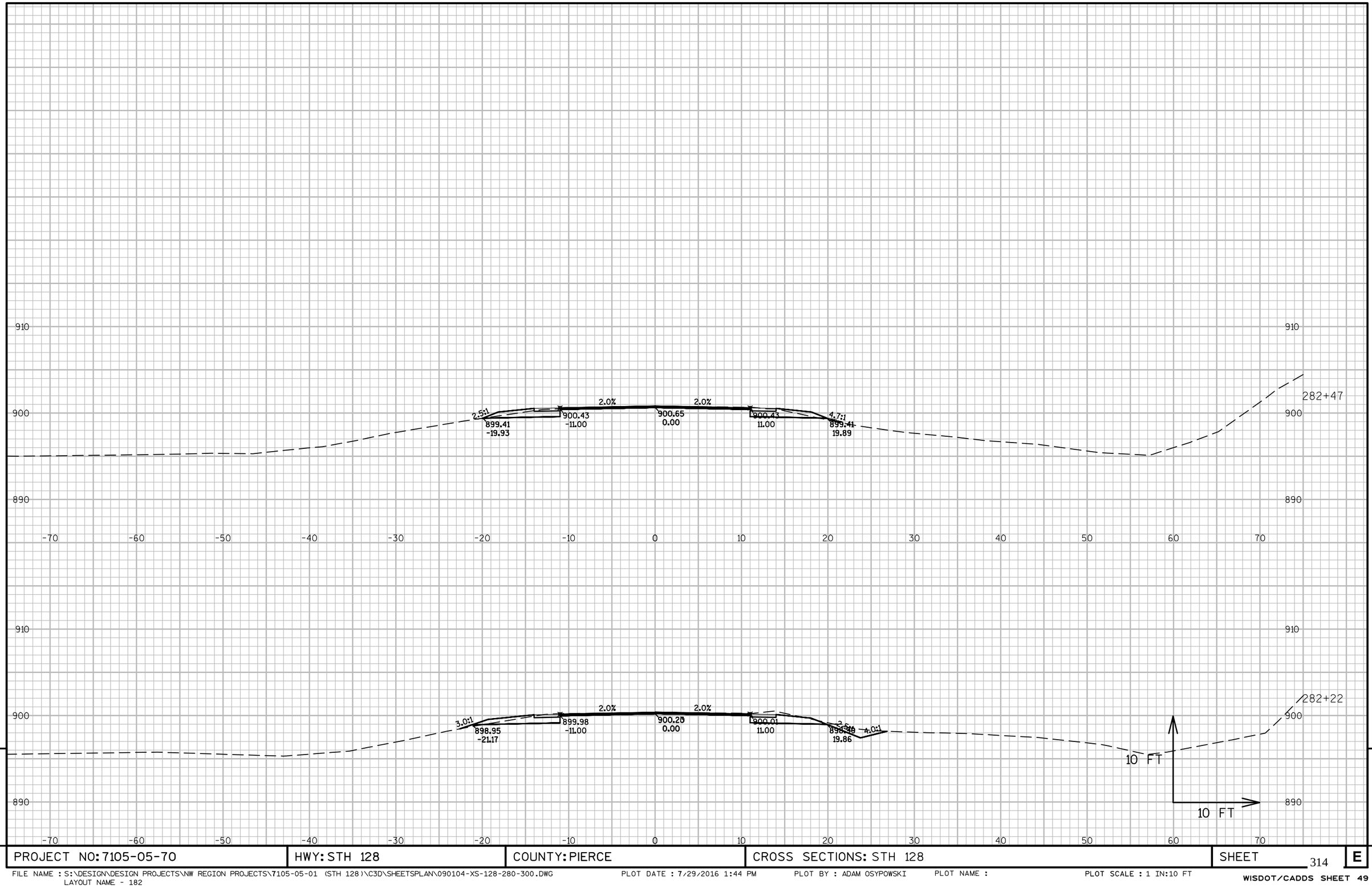
WISDOT/CADDS SHEET 49



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 313	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090104-XS-128-280-300.DWG
LAYOUT NAME - 181

PLOT DATE : 7/29/2016 1:43 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



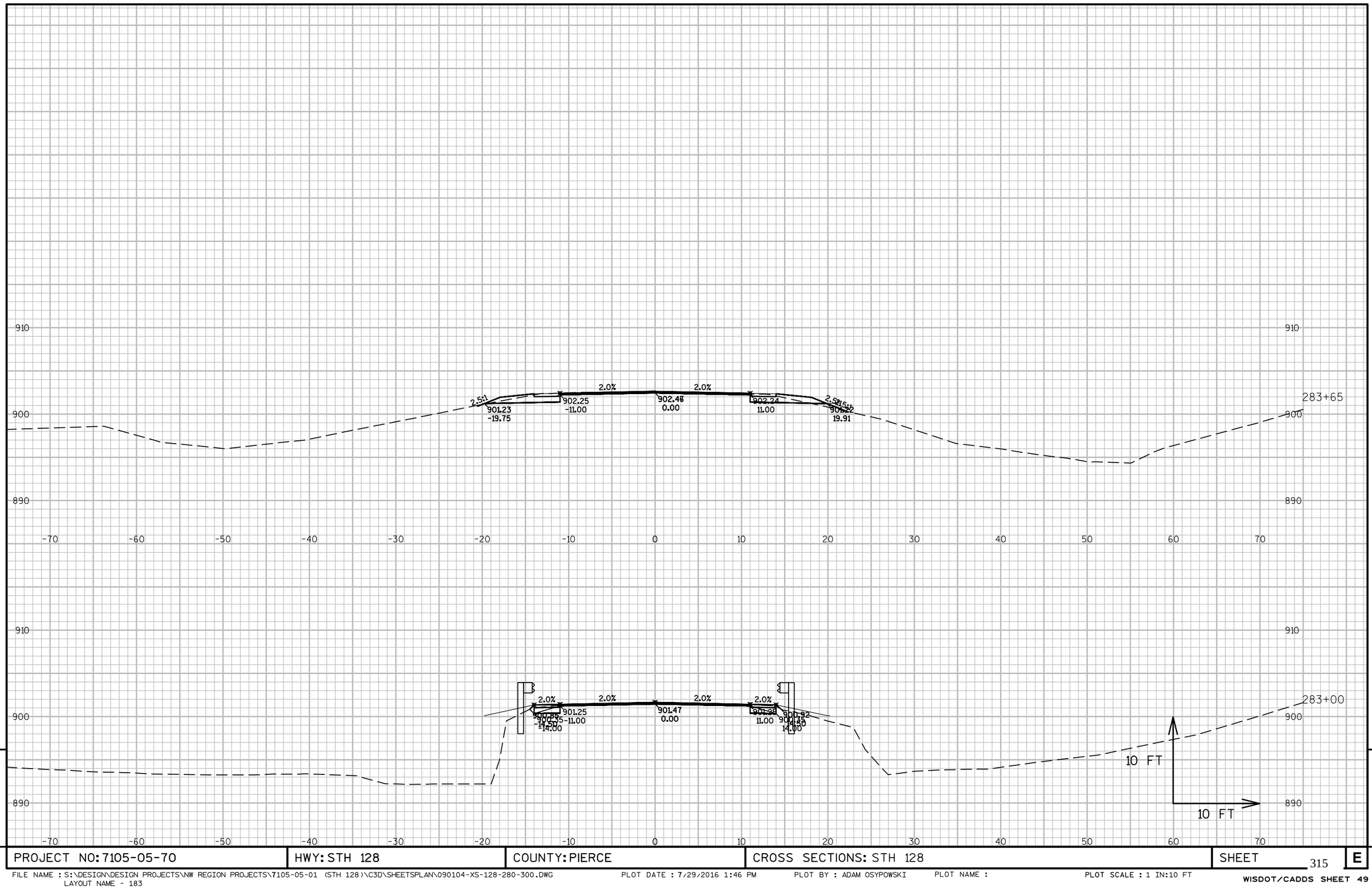
9

9

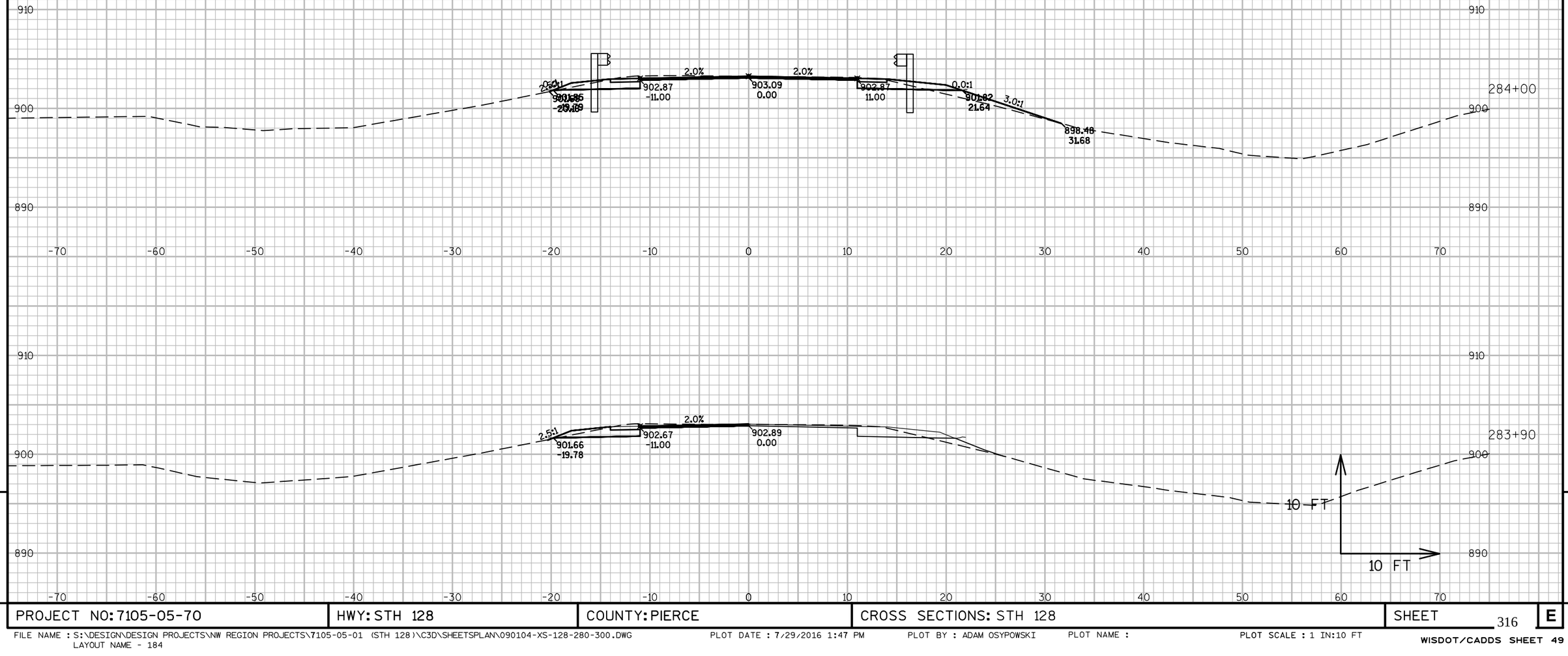
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 314	E

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090104-XS-128-280-300.DWG
LAYOUT NAME - 182

PLOT DATE : 7/29/2016 1:44 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 315	E



9

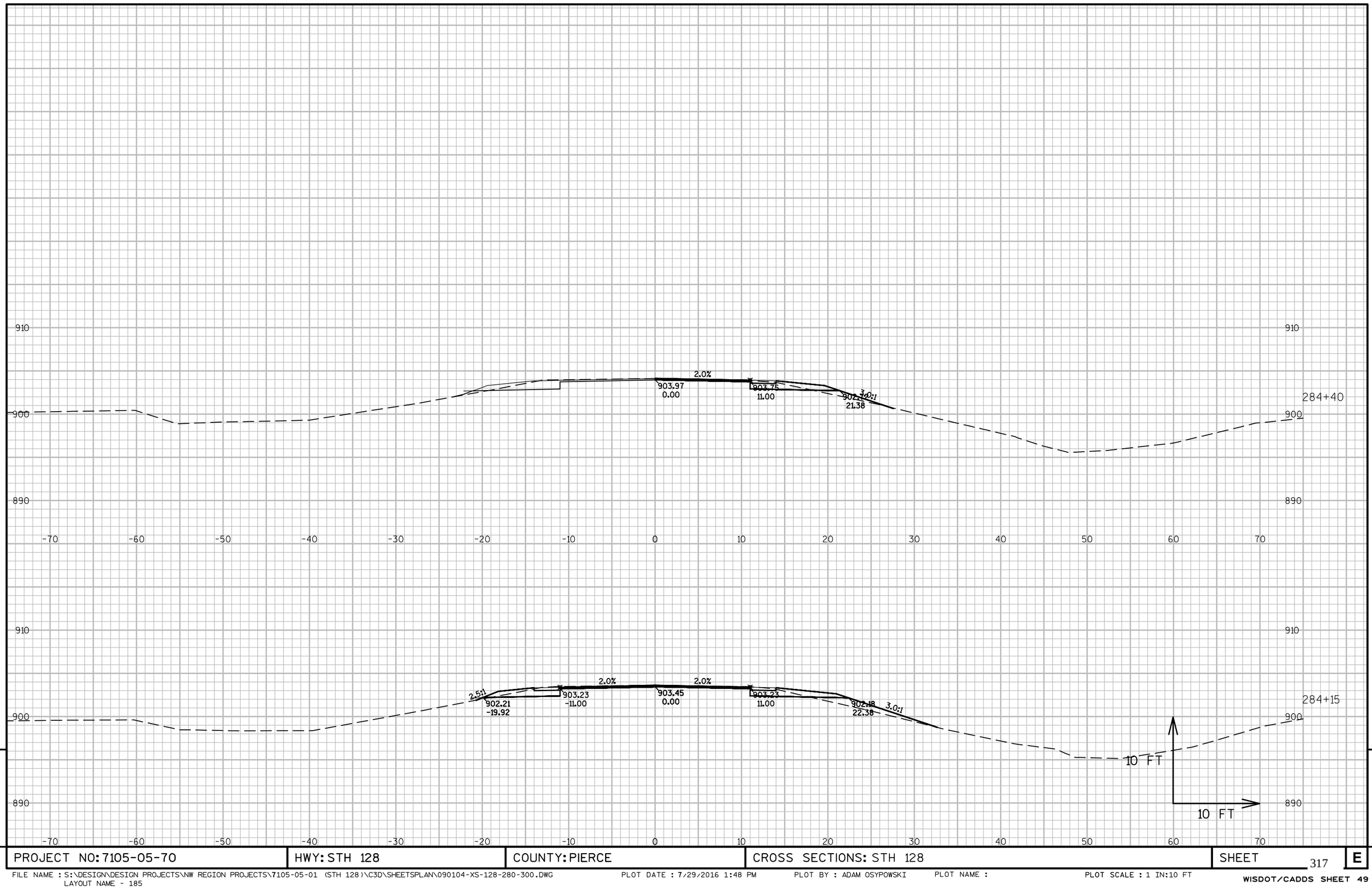
PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 316	E

9

FILE NAME : S:\DESIGN\DESIGN PROJECTS\NW REGION PROJECTS\7105-05-01 (STH 128)\C3D\SHEETSPLAN\090104-XS-128-280-300.DWG
LAYOUT NAME - 184

PLOT DATE : 7/29/2016 1:47 PM PLOT BY : ADAM OSYPOWSKI PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 7105-05-70	HWY: STH 128	COUNTY: PIERCE	CROSS SECTIONS: STH 128	SHEET 317	E

Wisconsin Department of Transportation

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