EAU DEC 2014

PROJECT ID: 8110-02-72

WITH:

COUNTY: St. Croix

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 = 1102

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8110-02-72		

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STILLWATER - SOMERSET

CTH E TO 150TH AV,B55-0226,C55-0035

STH 64

St. Croix

STATE PROJECT NUMBER
8110-02-72

DESIGN DESIGNATION

A.A.D.T.	2016	= 18,600
A.A.D.T.	2036	= 24,200
D.H.V.	2036	= 2614
D.D.		= 60/40
T.		= 8.4%
DESIGN SPEED		= 70 MPH
ESALS		= 12,300,500

END PROJECT STH 35/64 8110-02-72
STA 308+38.27
X=512775.69
Y=380326.16

BEGIN PROJECT STH 35/64 8110-02-72
STA 200+00.00
X=504726.96
Y=375097.36

STRUCTURE B-55-0226
STA 34+21 TO 36+54

STRUCTURE C-55-0035
STA 27+48 TO 27+62

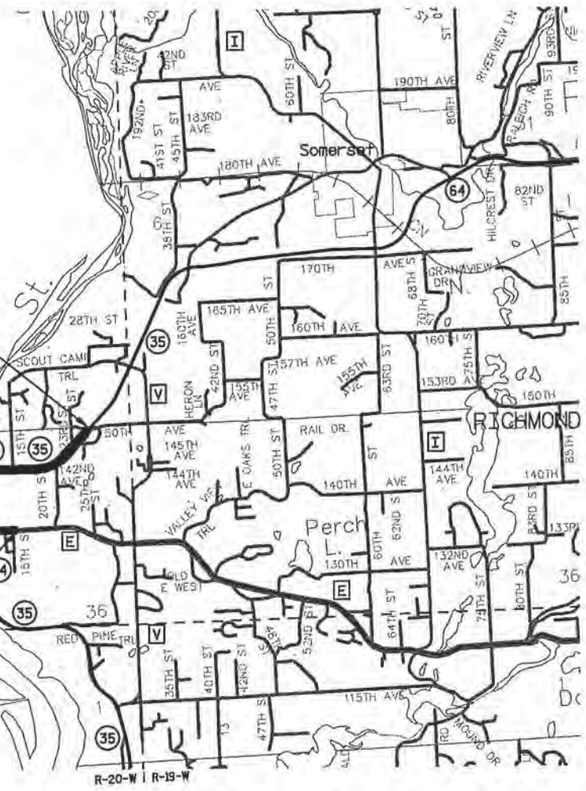
STRUCTURE C-55-0036
STA 17+68 TO 17+82

BEGIN STH 35
STA 5+00.00
X=502299.40
Y=371890.86

END STH 35
STA 39+25
X=505349.32'
Y=373348.79'

BEGIN CTH E
STA 39+25
X=505349.32'
Y=373348.79'

END CTH E
STA 62+45.89
X=507637.72
Y=373566.26



LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.98 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, ST. CROIX COUNTY, NAD83 (91), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
MARSH AREA		STORM SEWER	SS
WOODED OR SHRUB AREA		TELEPHONE	T
		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
		TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	NW REGION EAU CLAIRE
Designer	ERIC ANDRITSCH
Project Manager	BETH CUNNINGHAM P.E.
Regional Examiner	DANIEL OJIBWAY
Regional Supervisor	TIMOTHY MASON P.E.
C.O. Examiner	CO EXAMINER

APPROVED FOR THE DEPARTMENT
DATE: 8/11/14 (Signature)

E

2

LIST OF STANDARD ABBREVIATIONS

ABUT.	ABUTMENT
AGG.	AGGREGATE
AH.	AHEAD
APPROX.	APPROXIMATE
A.E.W.	APRON ENDWALL
ASPH.	ASPHALTIC
A.D.T.	AVERAGE DAILY TRAFFIC
AZ.	AZIMUTH
BK.	BACK
BEG.	BEGIN
B.M.	BENCH MARK
C/L	CENTER LINE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CO.	COUNTY
C.T.H.	COUNTY TRUNK HIGHWAY
X-SEC.	CROSS SECTION
CR.	CRUSHED
CFS	CUBIC FEET/SECOND
C.Y., CU. YD.	CUBIC YARD
CULV.	CULVERT
C.P.	CULVERT PIPE
D.O.T.	DEPARTMENT OF TRANSPORTATION
D.H.V.	DESIGN HOUR VOLUME
DIA.	DIAMETER
D.	DIRECTIONAL DISTRIBUTION
DISCH. OR DIS.	DISCHARGE
EA.	EACH
ELECT.	ELECTRIC
EL. OR ELEV.	ELEVATION
EMB.	EMBANKMENT
E.B.S.	EXCAVATION BELOW SUBGRADE
EXIST.	EXISTING
FERT.	FERTILIZE
F.E.	FIELD ENTRANCE
FIN.	FINISHED
FT.	FOOT
F.L.	FLOW LINE
GA.	GAUGE
HORIZ.	HORIZONTAL
CWT.	HUNDREDWEIGHT
INL.	INLET
LT.	LEFT
L.H.F.	LEFT-HAND FORWARD
LIN.	LINEAR
LIN. FT.	LINEAR FOOT
L.S.	LUMP SUM
MAX.	MAXIMUM
MI.	MILE
MISC.	MISCELLANEOUS
N.E.	NORTH EAST
N.W.	NORTH WEST
PAV'T	PAVEMENT
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
P.O.T.	POINT ON TANGENT
LB.	POUND
P.E.	PRIVATE ENTRANCE
PROJ.	PROJECT
R.	RANGE
REQ'D	REQUIRED
RT.	RIGHT
R.H.F.	RIGHT-HAND FORWARD
R/W	RIGHT OF WAY
RD.	ROAD
SHR.	SHRINKAGE
SL.	SLOPE
STD.	STANDARD
S.D.D.	STANDARD DETAIL DRAWINGS
S.T.H.	STATE TRUNK HIGHWAY
STA.	STATION
S.P.P.A.	STRUCTURAL PLATE PIPE ARCH
STRUCT.	STRUCTURE
SURF.	SURFACE
TEL.	TELEPHONE
TN.	TOWN
T.	TRUCKS (PERCENT OF)
UNCL.	UNCLASSIFIED
U.G.	UNDERGROUND
V.	VELOCITY OR DESIGN SPEED
V.C.	VERTICAL CURVE

UTILTIES

RICK PODOLAK
AT&T WI DESIGN ENGINEERING
AT&T WISCONSIN - COMMUNICATION LINE
304 S. DEWEY ST
EAU CLAIRE, WI 54701
(715) 839-5801

DARREN NORDSKOG
XCEL ENERGY - ELECTRIC
1201 LIVINGSTONE ROAD
HUDSON, WI 54016
(715) 386-4798

ROB DOOLEY
ST. CROIX ELECTRIC COOPERATIVE - ELECTRIC
1925 RIDGEWAY ST
HAMMOND, WI 54015
(715) 796-7000

MIDWEST NATURAL GAS
611 SHAY STREET
SOMERSET, WI 54025
(715) 247-5279

WISCONSIN DOT

DEPARTMENT OF TRANSPORTATION
NORTH WEST REGION
718 WEST CLAIREMONT AVE
EAU CLAIRE WI 54701
ATTN.: TIMOTHY MASON
(715) 833-5366

MINNESOTA DOT

DEPARTMENT OF TRANSPORTATION
CENTRAL OFFICE
395 JOHN IRELAND BLVD
ST. PAUL, MN 55155-1899
ATTN.: PAUL KIVISTO
(651) 366-4306

WISCONSIN DNR - LIASON

DEPARTMENT OF NATURAL RESOURCES
WEST CENTRAL REGION
1300 WEST CLAIREMONT AVE
EAU CLAIRE WI 54701
ATTN.: CHRIS WILLGER
(715) 839-1609

ST. CROIX COUNTY HIGHWAY DEPARTMENT

TIM RAMBERG, HIGHWAY COMMISSIONER
ST. CROIX COUNTY HIGHWAY DEPARTMENT
920 THIRD STREET
PO BOX 108
HAMMOND WI 54015
(715) 796-2227

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE USC&GS DATUM.

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY GRUBBING OR TOPSOIL STRIPPING OPERATIONS.

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

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL DIGGERS HOTLINE PRIOR TO BEGINNING WORK OPERATIONS.

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

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SALVAGE TOPSOILED, FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING PAVEMENTS AT REMOVAL LIMITS.

DRILLED DOWEL BARS ARE REQUIRED AT CONSTRUCTION JOINTS.

REMOVAL OF GRAVEL DRIVEWAY AND APRONS SHALL BE PAID FOR AS COMMON EXCAVATION.

THE LOCATION OF DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE BUT IS MEASURED AND PAID FOR AS COMMON (OR ROCK) EXCAVATION.

WHERE SOFT SILTS ARE ENCOUNTERED AND NOT EXCAVATED BELOW SUBGRADE, THE ROADWAY SHALL BE BUILT FROM SLOPE INTERCEPT TO SLOPE INTERCEPT IN A CONTINUOUS GRADING OPERATION. CONSTRUCTION OF THE ROAD CORE (1H:1V) FIRST WITH SLOPES CONSTRUCTED LATER WILL NOT BE ACCEPTED UNLESS OTHERWISE APPROVED BY THE ENGINEER IN THE FIELD.

ALL REINFORCED CONCRETE PIPE AND STORM SEWER PIPE SHALL HAVE THE END SECTIONS TIED TOGETHER. THE TIE SHALL CONSIST OF A MINIMUM OF 12-FEET OF PIPE PLUS AEW. THE EXACT NUMBER OF TIES ARE CONTAINED IN THE MISCELLANEOUS QUANTITIES SHEETS.

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

4-INCH HMA PAVEMENT SHALL BE CONSTRUCTED IN 2 LAYERS: 2.0-INCH (LOWER) AND 2-INCH (UPPER).
6.75-INCH HMA PAVEMENT SHALL BE CONSTRUCTED IN 3 LAYERS; 2.75-INCH (BOTTOM) 2.25-INCH (MIDDLE) AND 1.75-INCH (UPPER).

BACKFILL FOR THE AREA BEHIND THE CURB AND GUTTER SHALL BE INCIDENTAL.

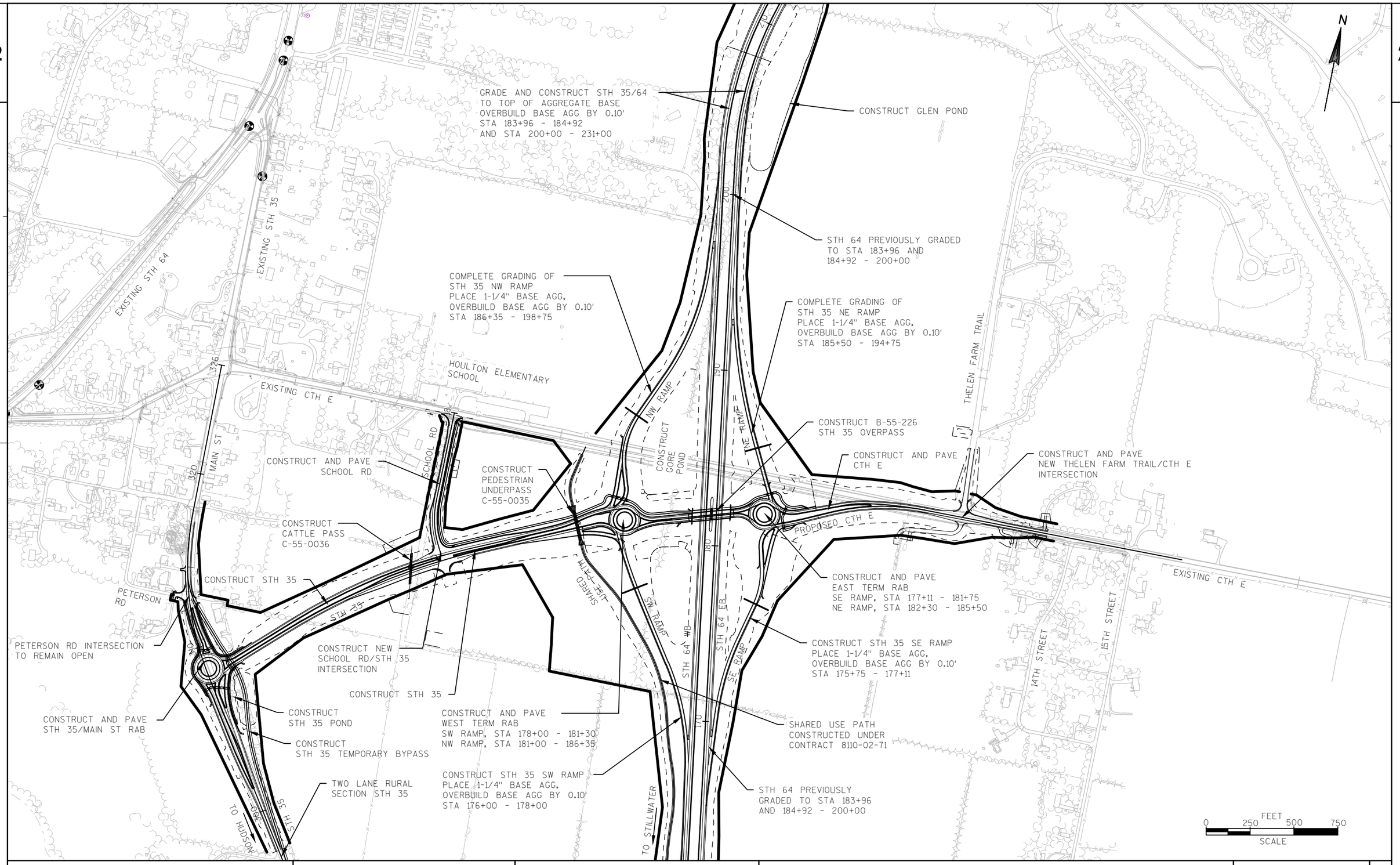
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS ARE APPROXIMATE AND MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

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

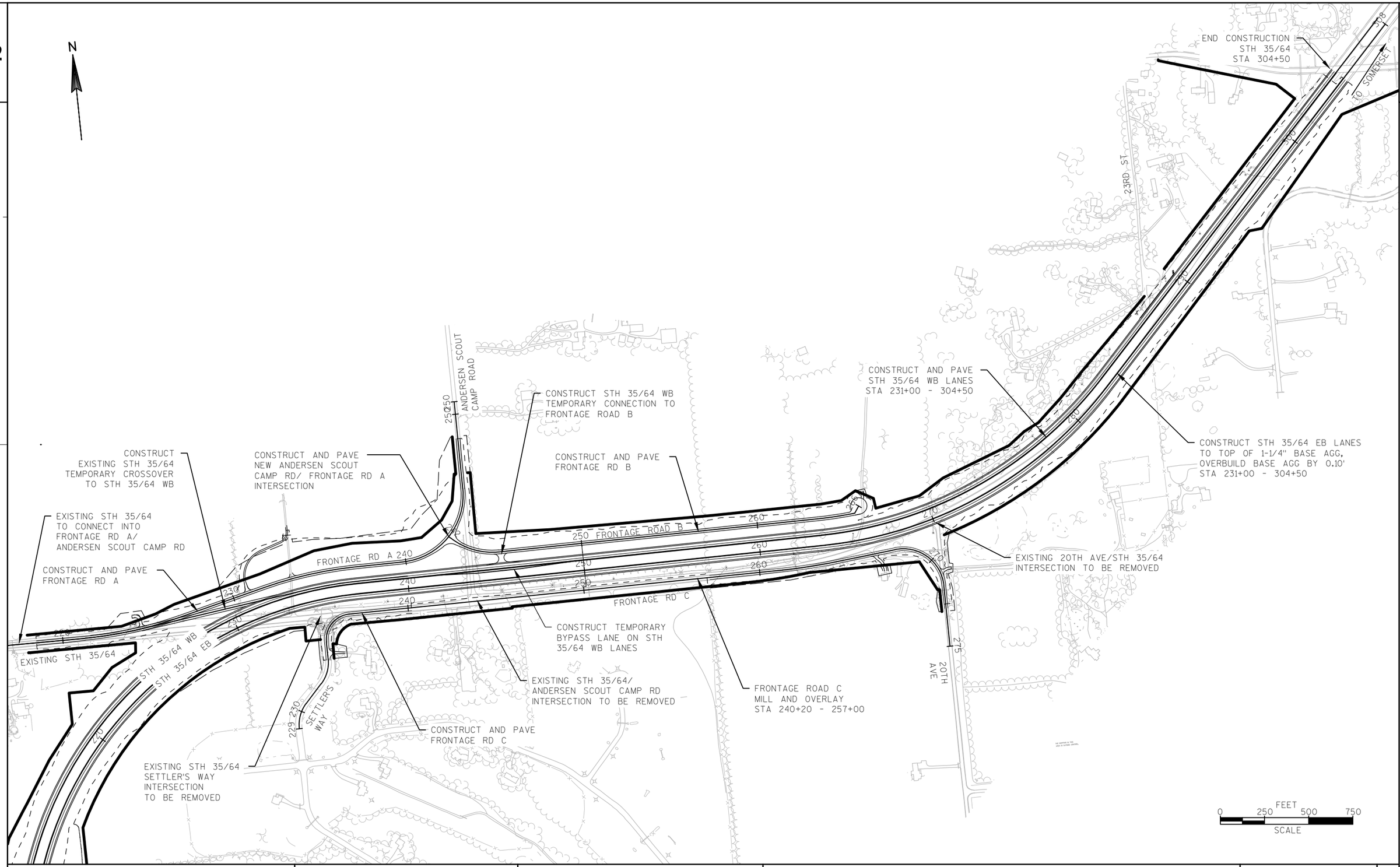
ORDER OF SHEETS
SECTION NO. 2

-GENERAL NOTES, UTILITIES, ABBREVIATIONS
-PROJECT OVERVIEW
-EXISTING TYPICAL SECTIONS
-FINISHED TYPICAL SECTIONS
-PAVEMENT OVERVIEW
-CONSTRUCTION DETAILS
-INTERSECTION DETAILS
-ELEVATION DETAILS
-SUPER ELEVATION DETAILS
-CONTOUR MAPS
-MATCHLINES
-EROSION CONTROL
-STORM SEWER
-EXISTING SIGN REMARKS
-PERMANENT SIGNING
-ADVANCED WARNING
-LIGHTING PLAN
-PAVEMENT MARKING
-TRAFFIC CONTROL
-DETOUR PLAN
-ALIGNMENT DETAILS

2



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PROJECT OVERVIEW	SHEET 3	E



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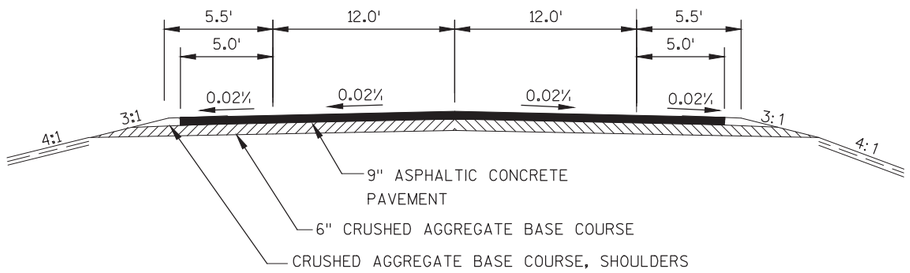
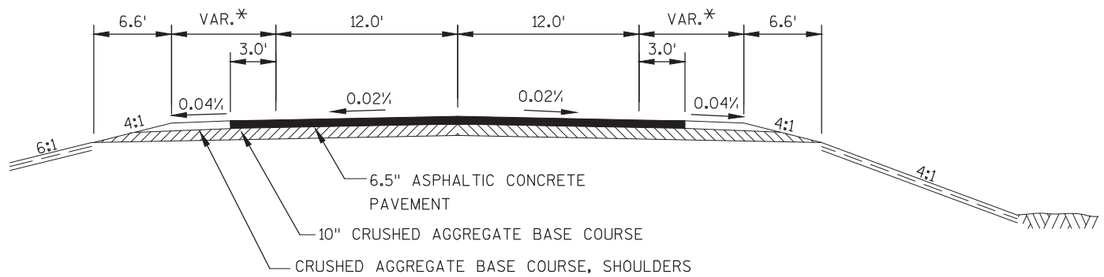
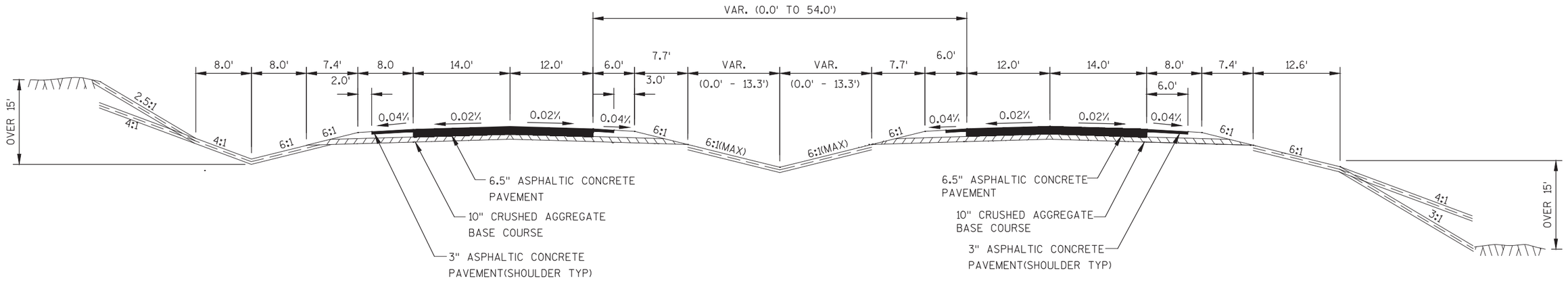


EXISTING TYPICAL SECTION
STH 35
(ROUNDABOUT AREA)



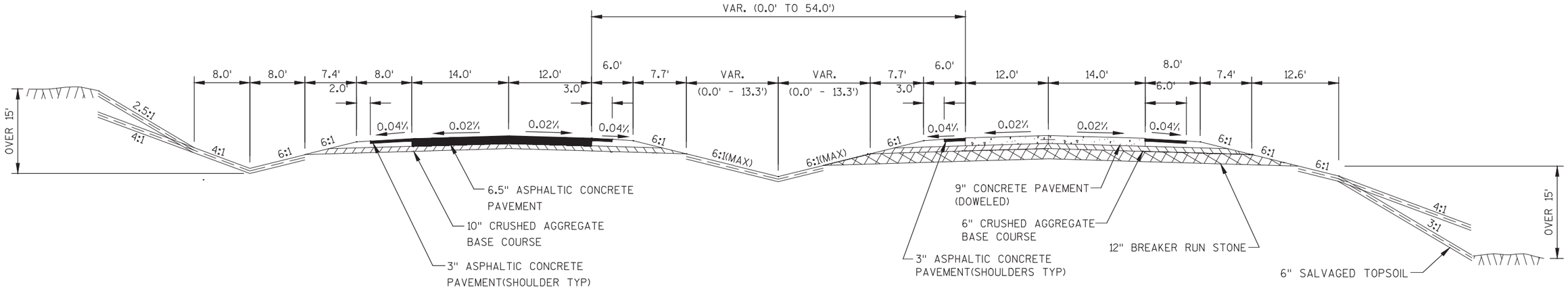
*VAR SHOULDER WIDTH = 8.0' STA 220+00 - 270+00
10.0' STA 270+00 - 290+00

EXISTING TYPICAL SECTION
STH 35 / 64
STA 220+00 – STA 290+00

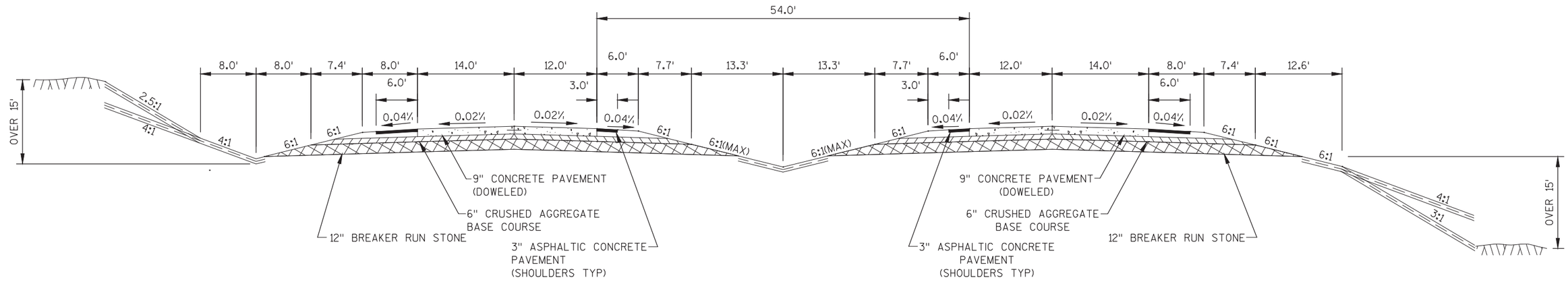


EXISTING TYPICAL SECTION
STH 35 / 64
(LANE DIVERGENCE AREA)
STA 290+00 – STA 299+00

PROJECT NO:8110–02–72	HWY:STH 64	COUNTY:ST. CROIX	EXISTING TYPICAL SECTIONS: STH 35, STH 35/64	SHEET 5 E

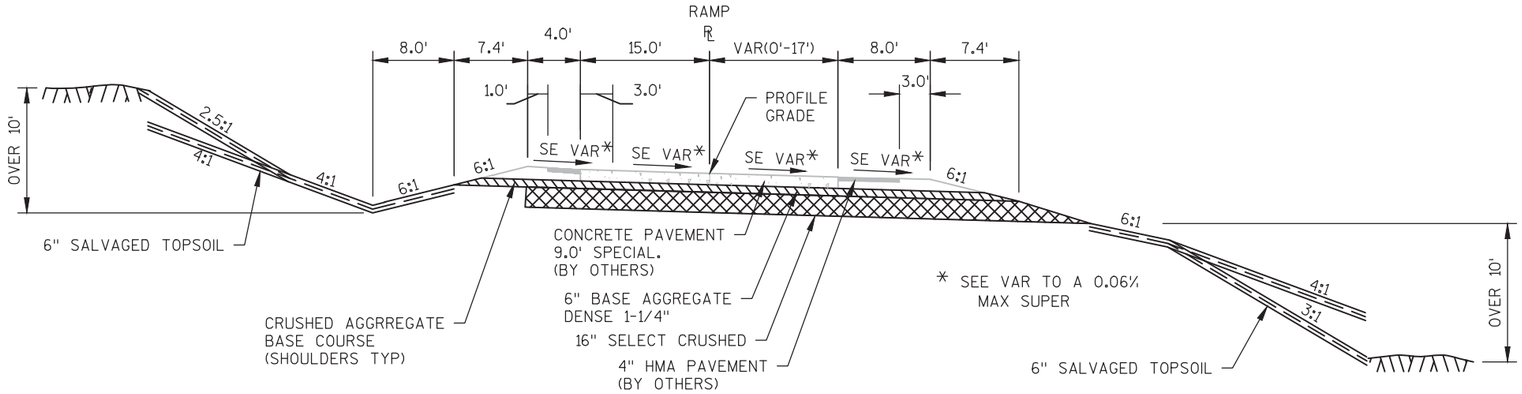


EXISTING TYPICAL SECTION
STH 35 / 64
(LANE DIVERGENCE AREA)
STA 299+00 – STA 303+50



EXISTING TYPICAL SECTION
STH 35 / 64
STA 303+50 – STA 317+00

PROJECT NO: 8110–02–72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING TYPICAL SECTIONS: STH 35/64	SHEET 6 E

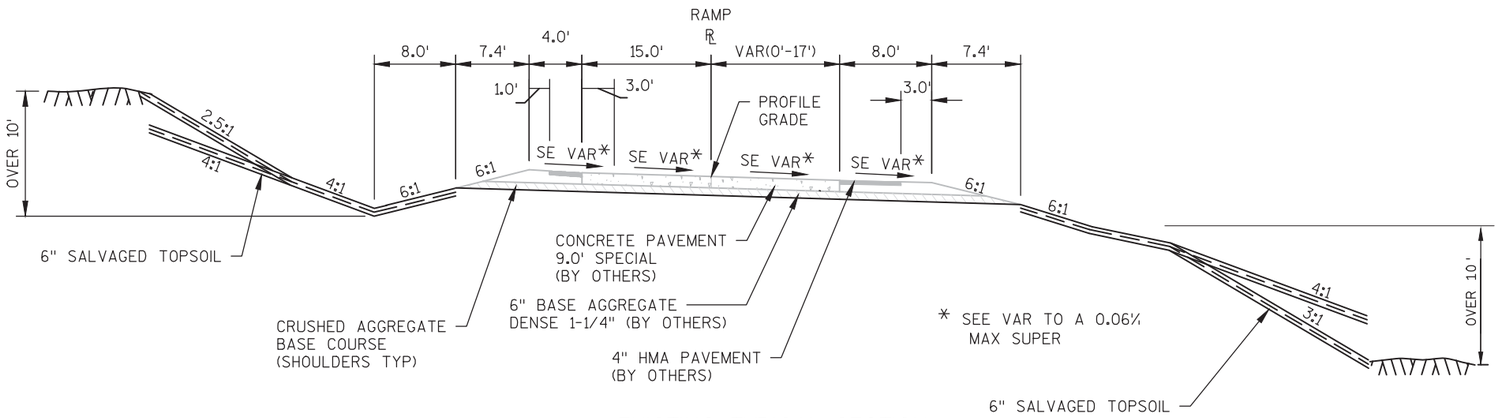


EXISTING TYPICAL SECTION

STH 35 SE RAMP
APPROXIMATE LIMITS:
STA 167+67 – STA 175+75

STH 35 SW RAMP
APPROXIMATE LIMITS:
STA 166+75 – STA 176+00

STH 35 NW RAMP
APPROXIMATE LIMITS:
STA 194+00 – STA 198+77



EXISTING TYPICAL SECTION

STH 35 SE RAMP
APPROXIMATE LIMITS:
STA 175+75 – STA 182+33

STH 35 NE RAMP
APPROXIMATE LIMITS:
STA 186+75 – STA 194+30

STH 35 SW RAMP
APPROXIMATE LIMITS:
STA 176+00 – STA 181+40

STH 35 NW RAMP
APPROXIMATE LIMITS:
STA 182+50 – STA 194+00

PROJECT NO: 8110–02–72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING TYPICAL SECTIONS: RAMPS	SHEET 7 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110–02–72\020301_TS_EX_72.DWG
81100272_PLANSHTS – 020301_TS_EX_72 – 020304
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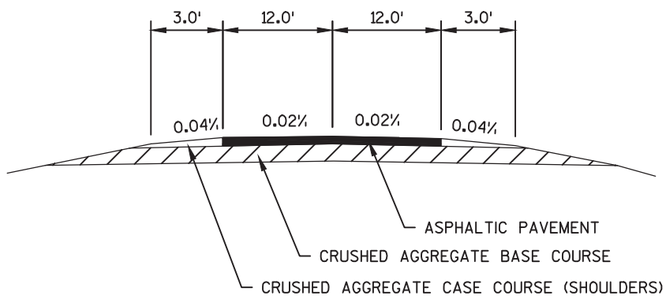
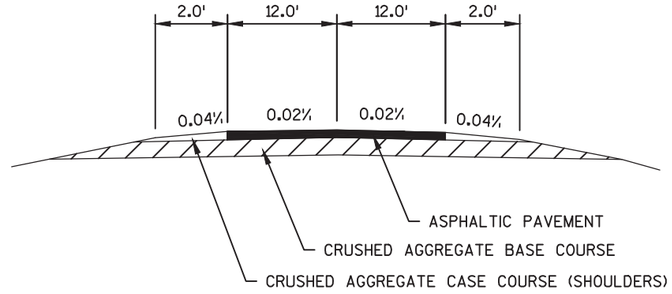
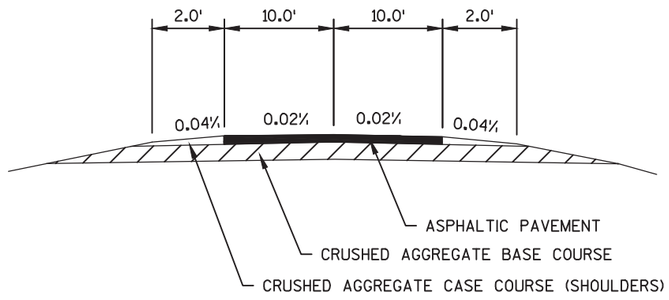


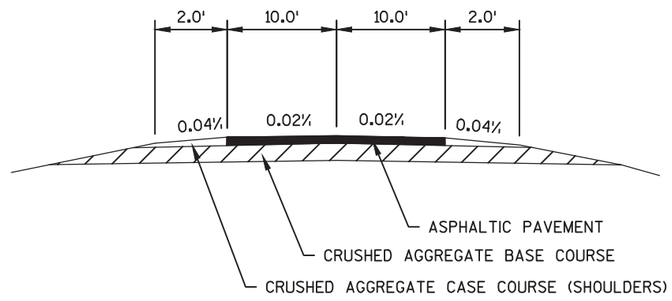
EXISTING TYPICAL SECTION
CTH E



EXISTING TYPICAL SECTION
SETTLER'S WAY



EXISTING TYPICAL SECTION
ANDERSON SCOUT CAMP ROAD



EXISTING TYPICAL SECTION
20TH STREET

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING TYPICAL SECTIONS: CTH E, SETTLER'S, ANDERSON, 20TH	SHEET 8 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\020301_TS_EX_72.DWG
81100272_PLANSHTS - 020301_TS_EX_72 - 020305
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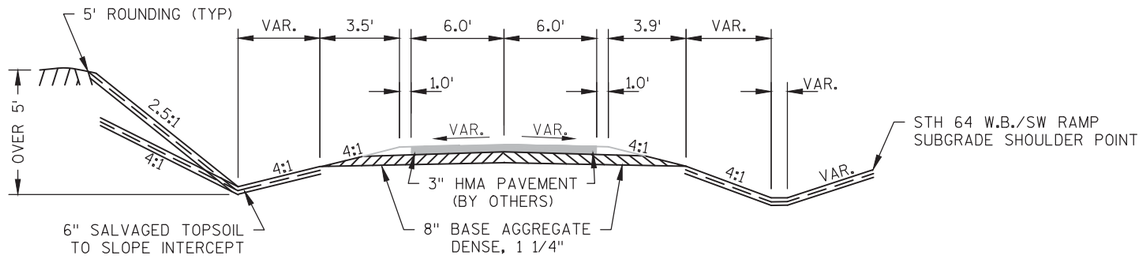
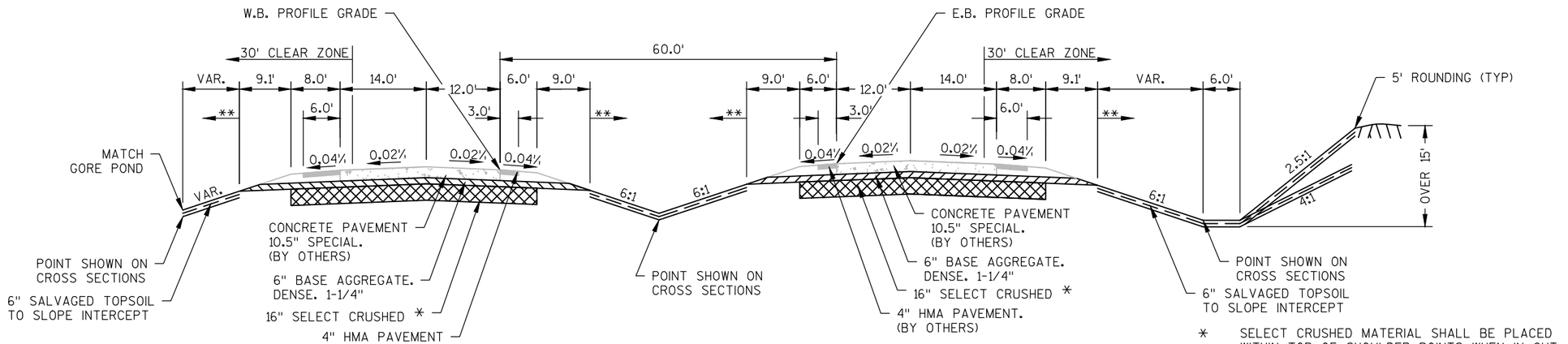
WISDOT/CADDS SHEET 42



FINISHED TYPICAL SECTION
SHARED USE PATH

NOTE: CONSTRUCTION BY OTHERS TO BE COMPLETED IN PROJECT 8110-02-75

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING TYPICAL SECTIONS: SHARED USE PATH	SHEET 9 E



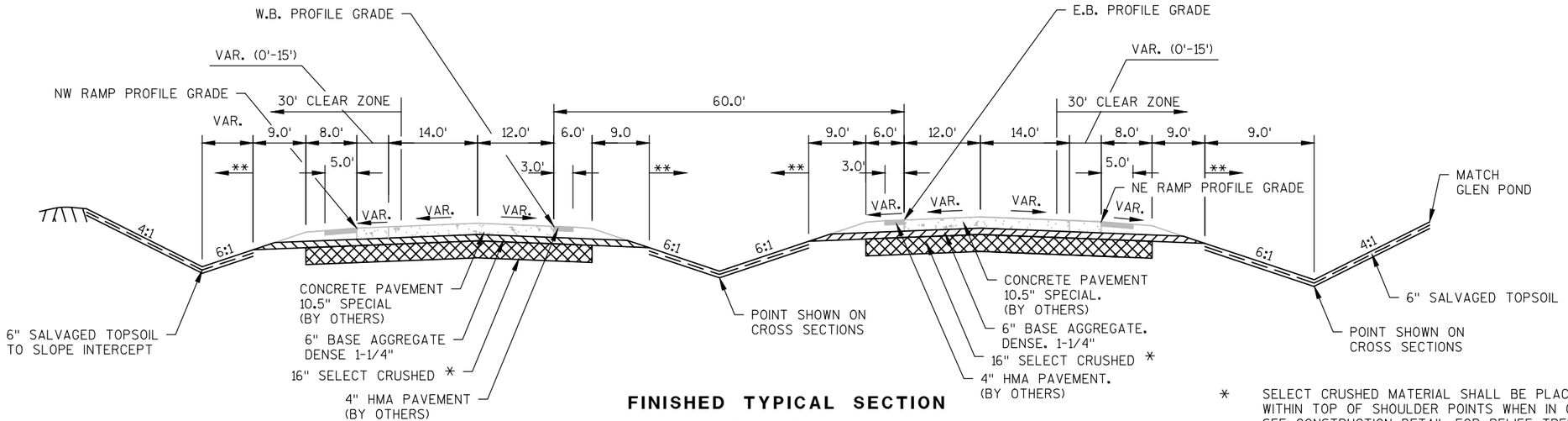
NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

FINISHED TYPICAL SECTION
STH 64
APPROXIMATE LIMITS
STA 183+50 - STA 185+50

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION



NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 200+00 - STA 201+00

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

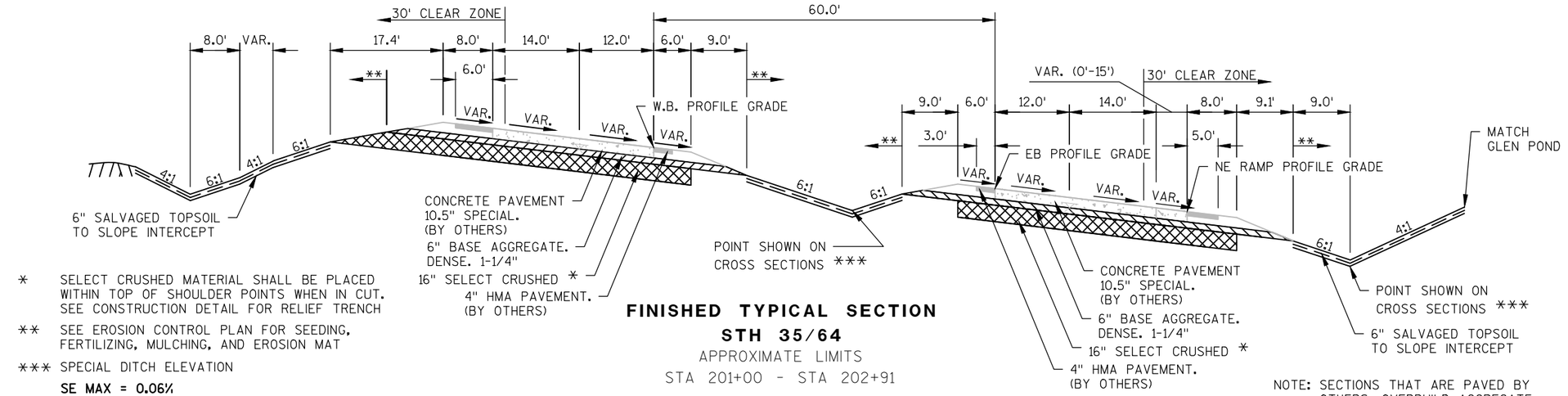
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

SE MAX = 0.021⅛

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/64	SHEET 10	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\020310_TS_FIN_72.DWG
81100272_PLANSHTS - 020310_TS_FIN_72 - F_TS_01
PLOT DATE : 9/25/2014 11:23 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ----------
WISDOT/CADDS SHEET 42



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

SE MAX = 0.06%

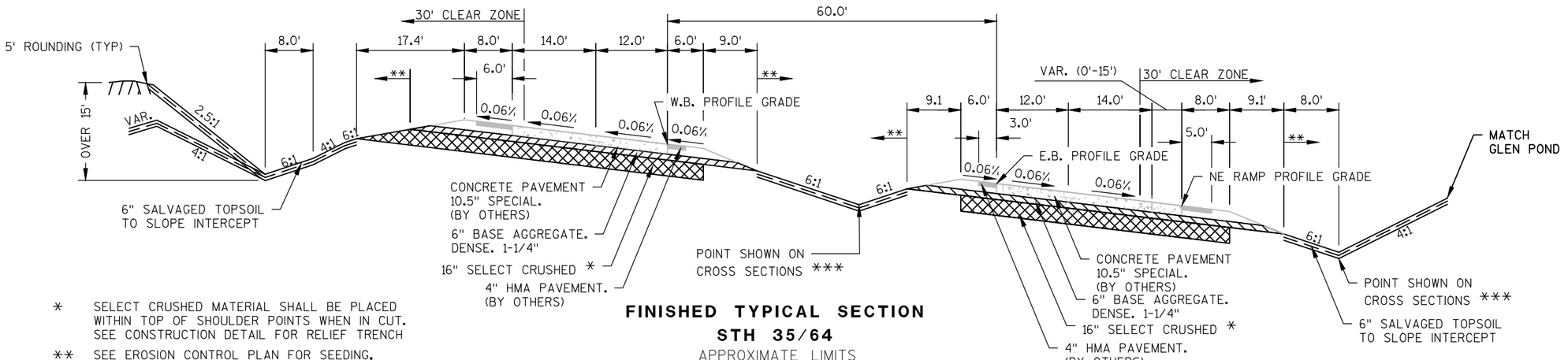
FINISHED TYPICAL SECTION

STH 35/64

APPROXIMATE LIMITS

STA 201+00 - STA 202+91

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION

STH 35/64

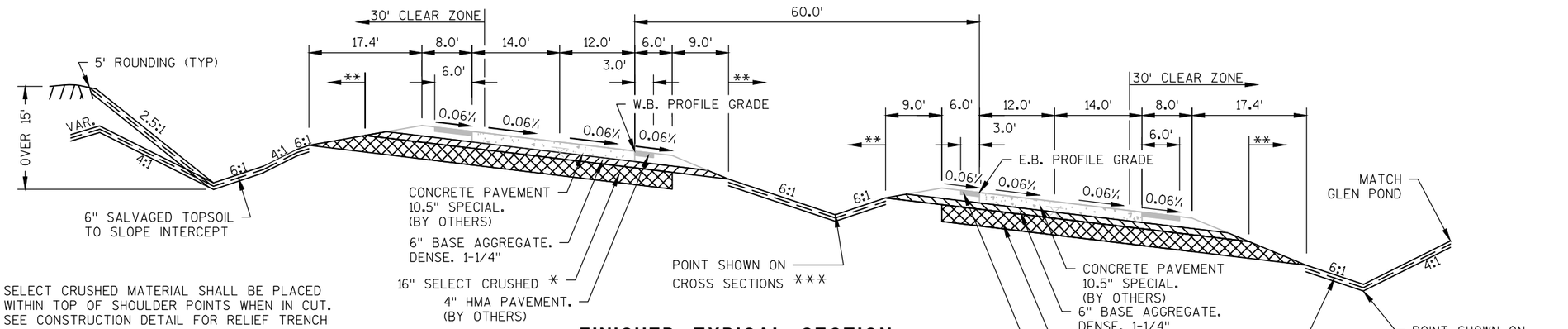
APPROXIMATE LIMITS

STA 202+91 - STA 208+00

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/64	SHEET 11	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\020310_TS_FIN_72.DWG
81100272_PLANSHTS - 020310_TS_FIN_72 - F_TS_02
PLOT DATE : 9/25/2014 11:23 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ----------
WISDOT/CADDS SHEET 42



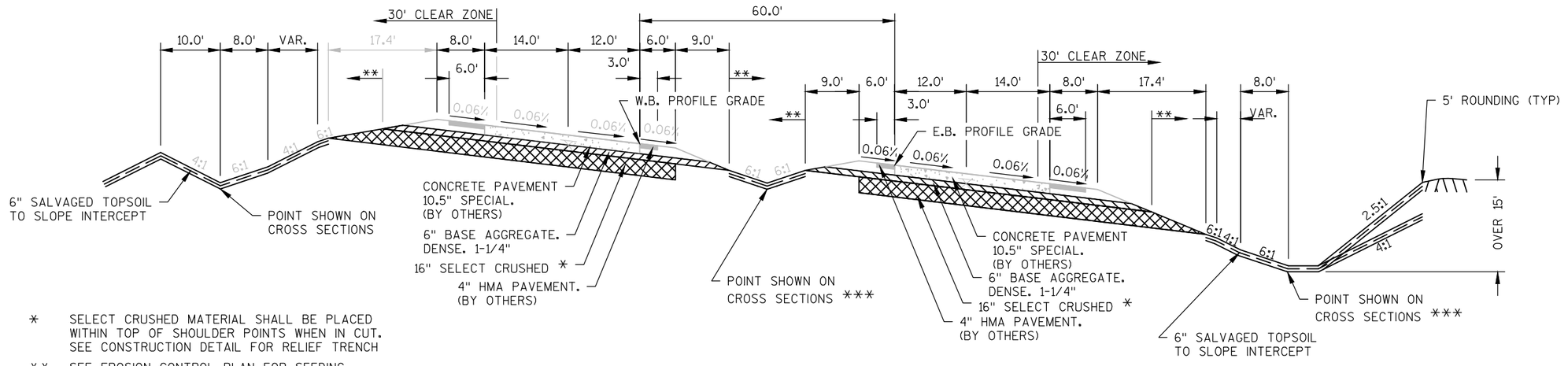
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 208+00 - STA 213+50



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

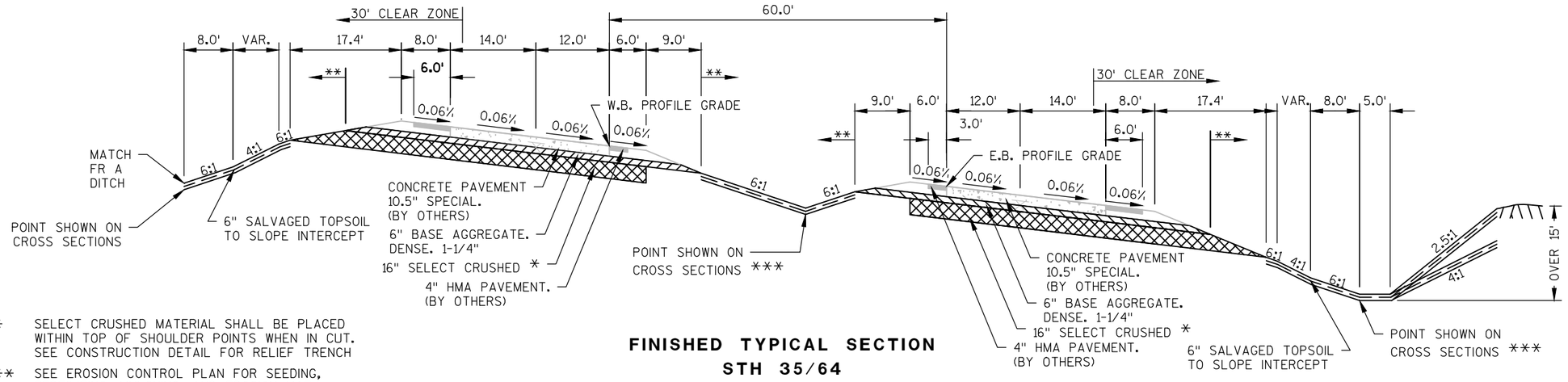
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 213+50 - STA 226+50

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/64	SHEET 12	E



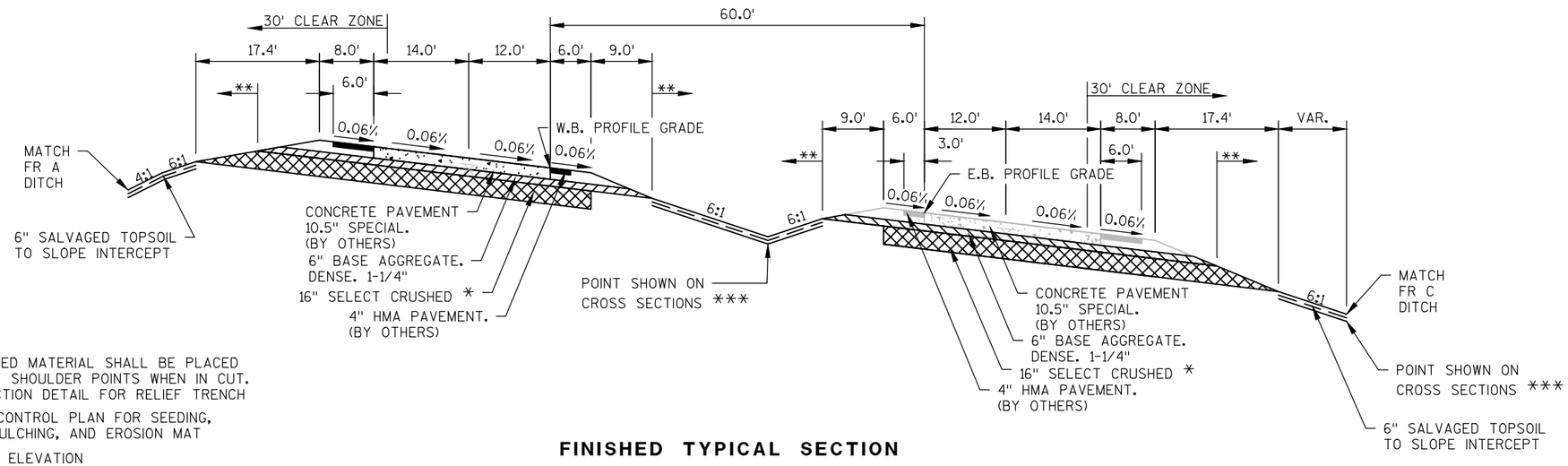
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 226+50 - STA 230+65

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

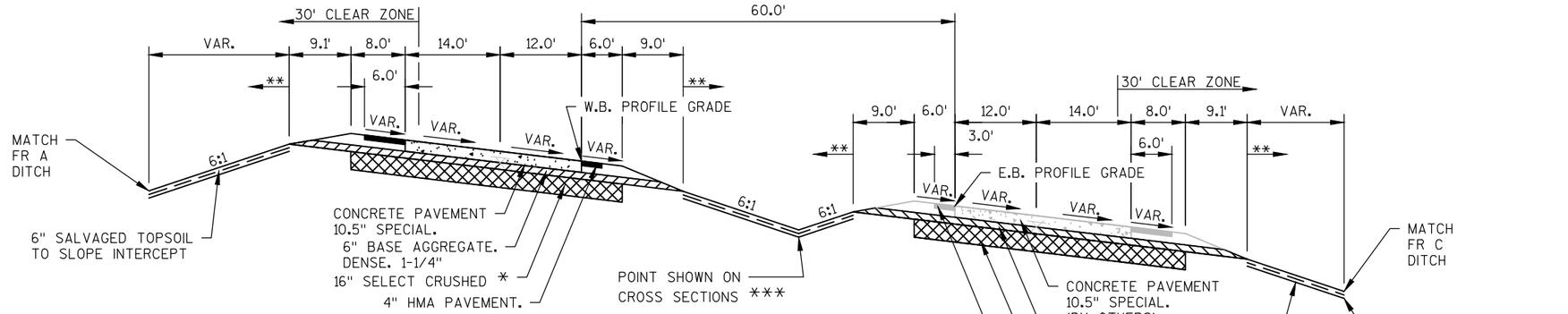
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 230+65 - STA 236+20

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/64	SHEET 13	E



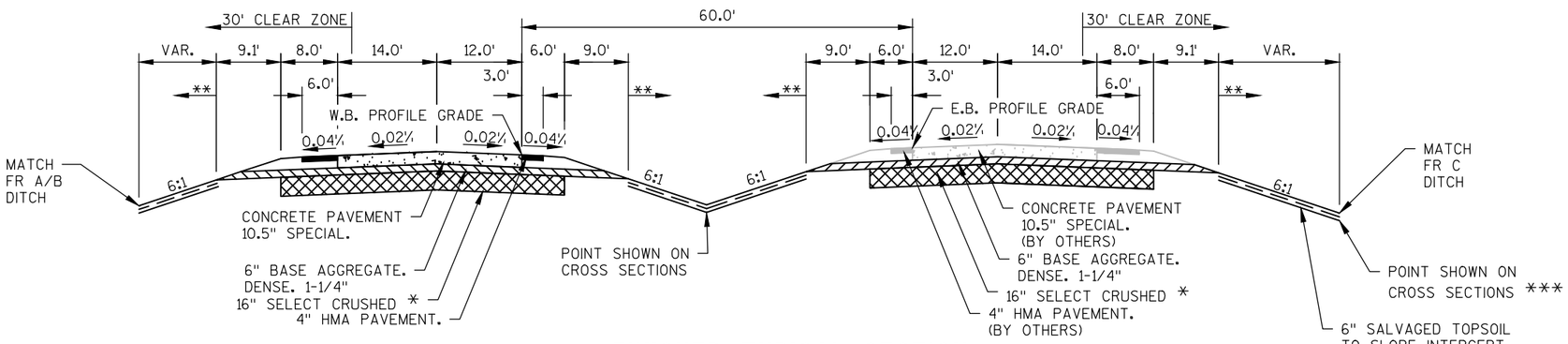
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX = 0.058%

FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 236+20 - STA 239+80

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

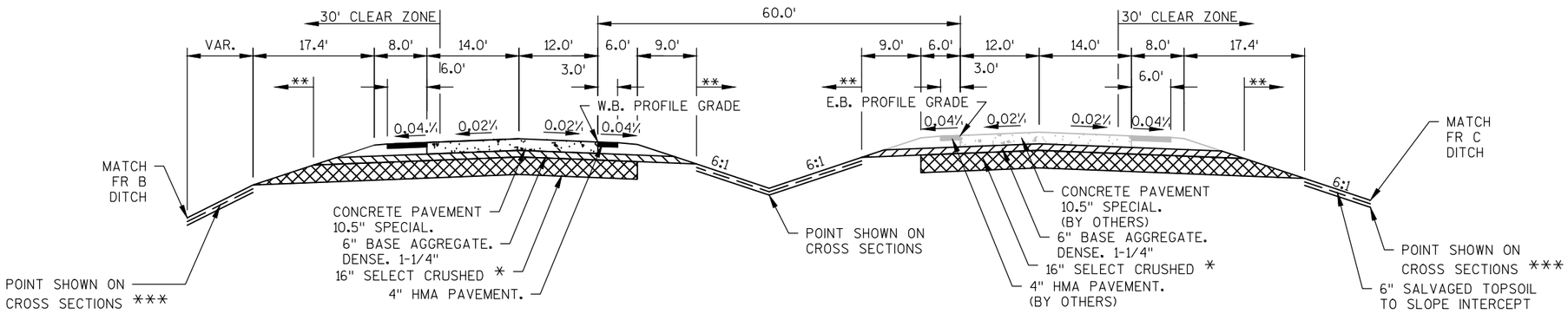
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 239+80 - STA 244+25

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/64	SHEET 14	E



FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 244+25 - STA 252+00

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

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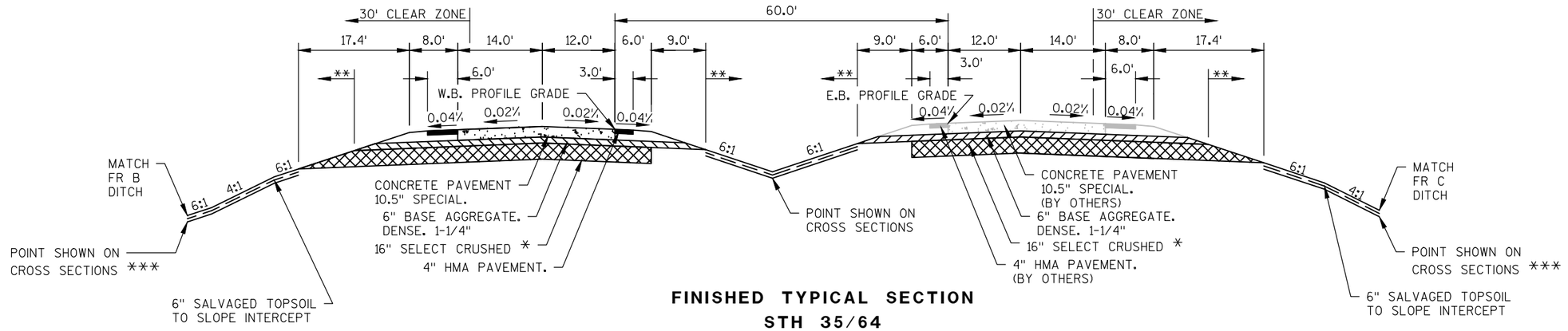
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION



FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 252+00 - STA 255+00

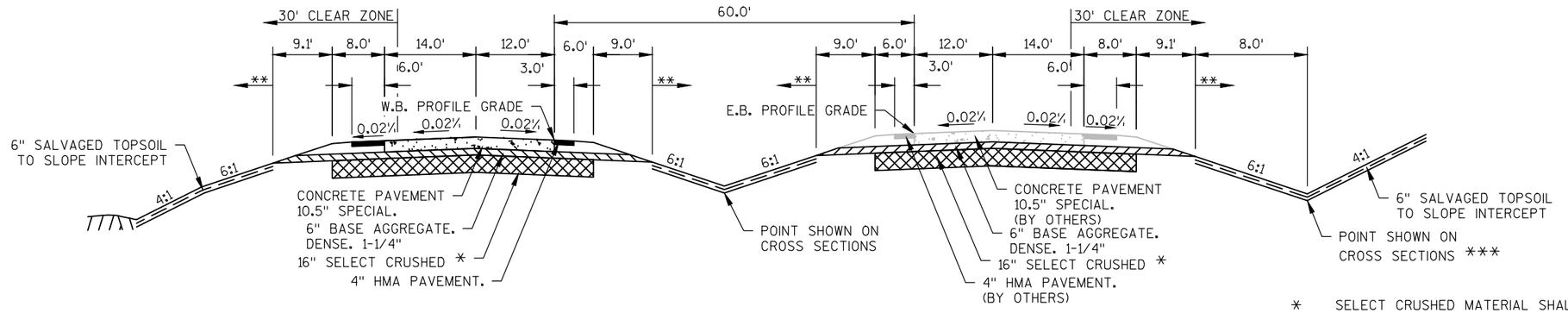
NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/64	SHEET 15	E



NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

FINISHED TYPICAL SECTION

STH 35/64

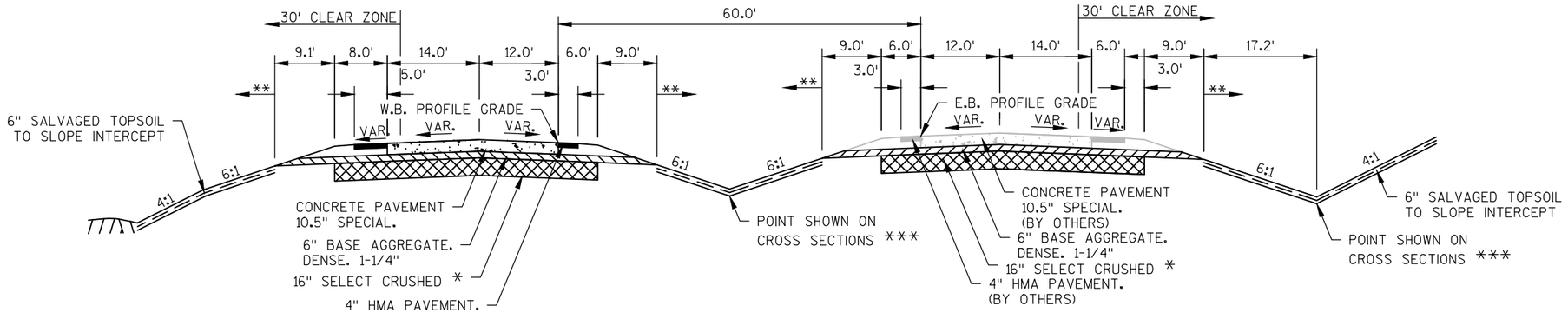
APPROXIMATE LIMITS

STA 255+00 - STA 260+83

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION



NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

FINISHED TYPICAL SECTION

STH 35/64

APPROXIMATE LIMITS

STA 260+83 - STA 262+81

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

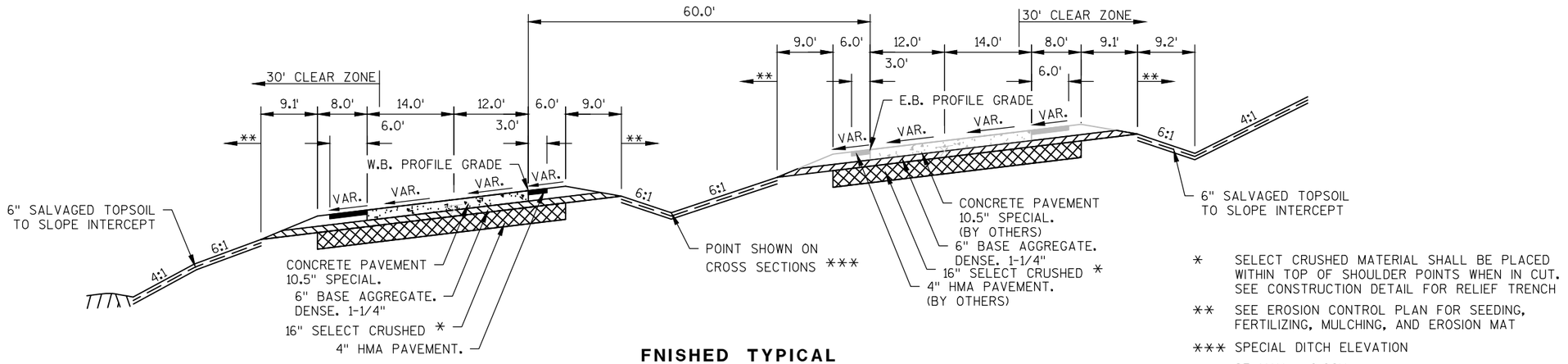
SE MAX = 0.02⅛

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/64	SHEET 16	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\020310_TS_FIN_72.DWG
81100272_PLANSHTS - 020310_TS_FIN_72 - F_TS_07

PLOT DATE : 9/25/2014 11:23 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ----------

WISDOT/CADDS SHEET 42



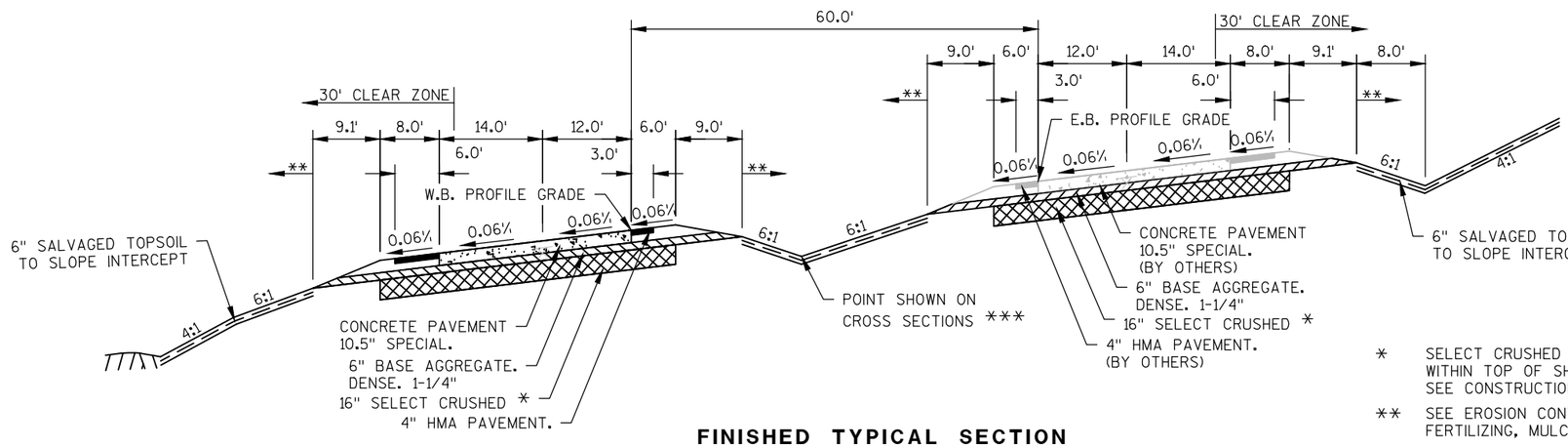
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX = 0.06⅛

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

FNISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 262+81 - STA 264+60



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

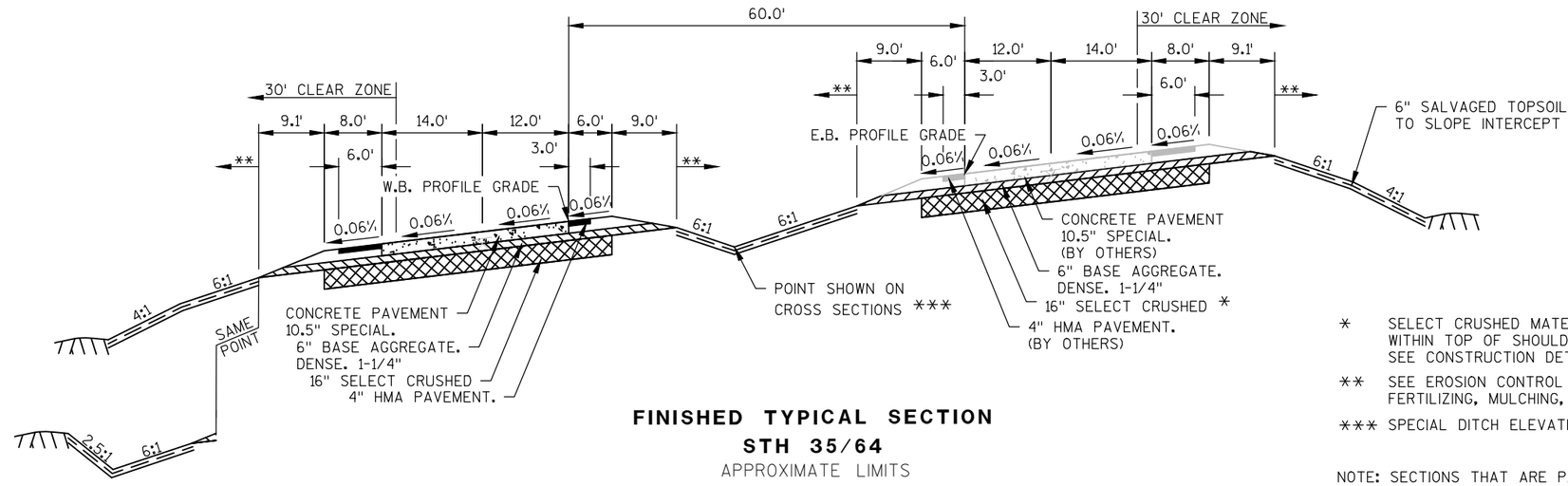
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 264+60 - STA 269+50

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/64	SHEET 17	E



STA 270+50 - 275+50

FINISHED TYPICAL SECTION

STH 35/64

APPROXIMATE LIMITS

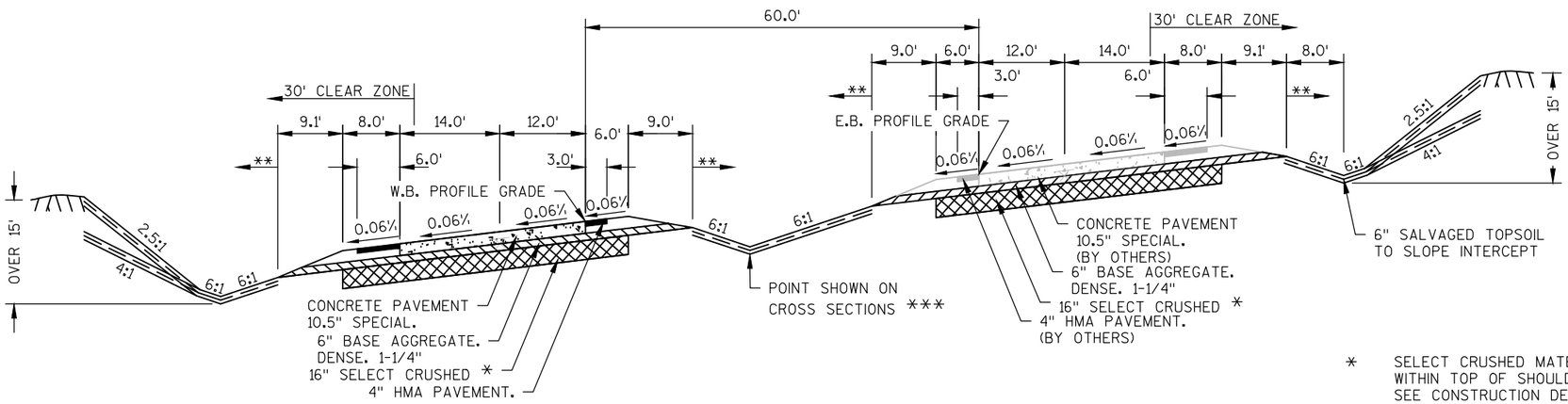
STA 269+50 - STA 275+50

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'



FINISHED TYPICAL SECTION

STH 35/64

APPROXIMATE LIMITS

STA 275+50 - STA 281+30

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

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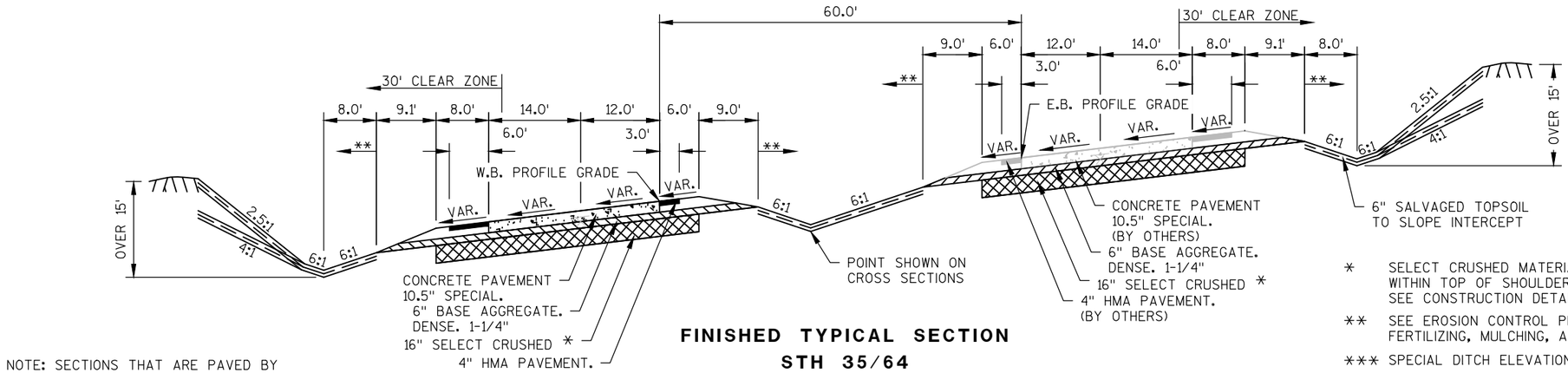
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/64	SHEET 18	E



NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

FINISHED TYPICAL SECTION

STH 35/64

APPROXIMATE LIMITS

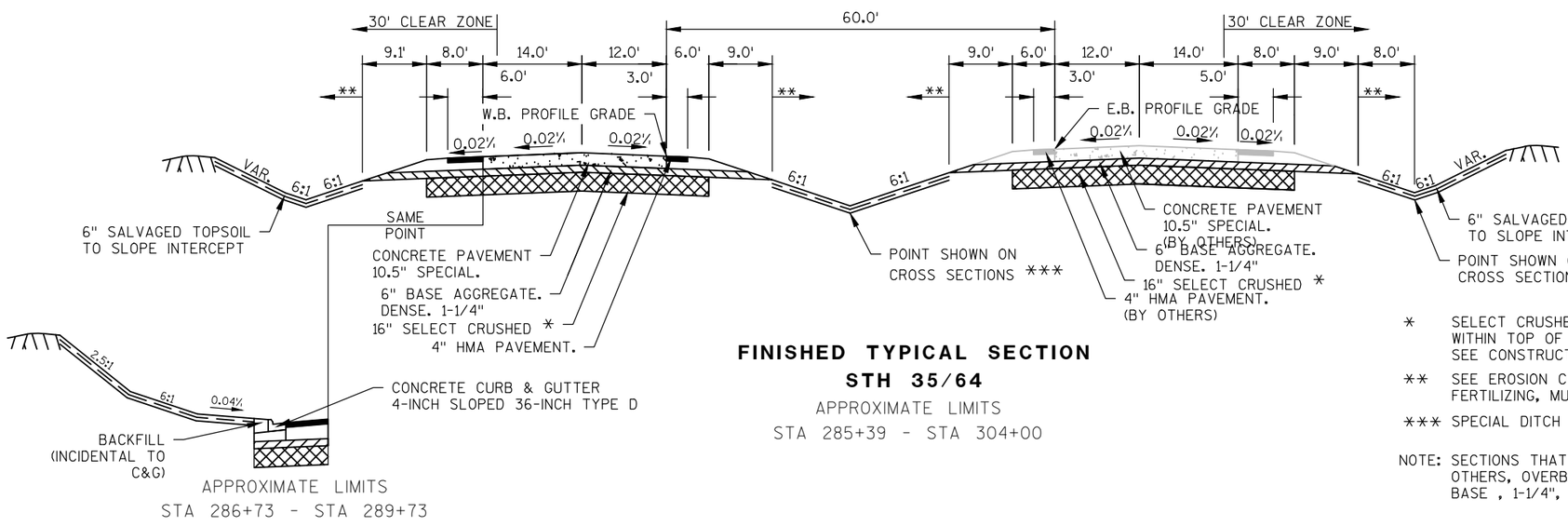
STA 281+30 - STA 285+39

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

MAX SE = 0.0%



FINISHED TYPICAL SECTION

STH 35/64

APPROXIMATE LIMITS

STA 285+39 - STA 304+00

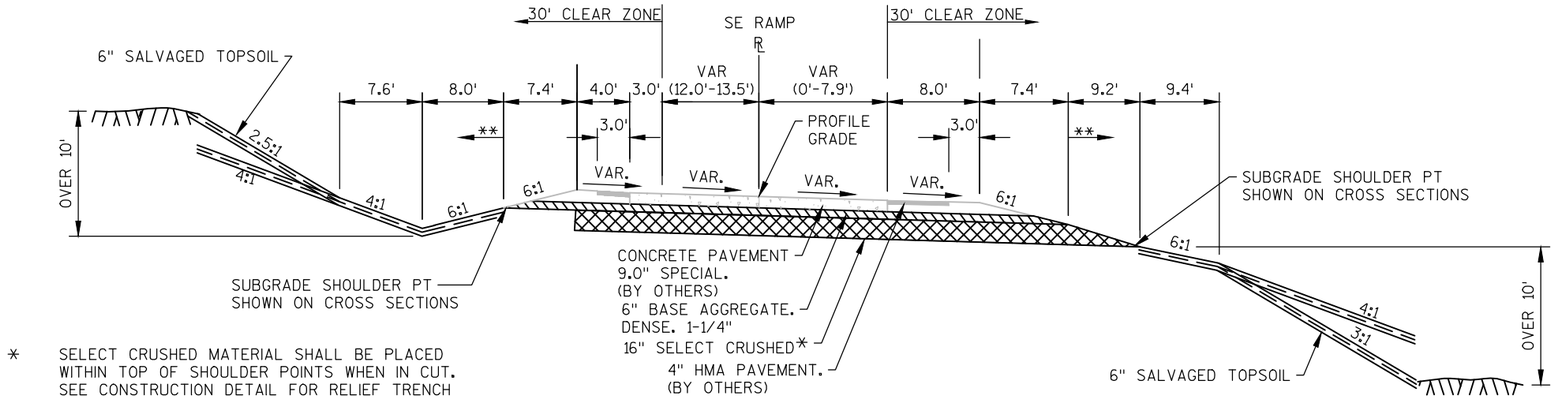
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

NOTE: SECTIONS THAT ARE PAVED BY OTHERS, OVERBUILD AGGREGATE BASE , 1-1/4", BY 0.1'

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/64	SHEET 19	E

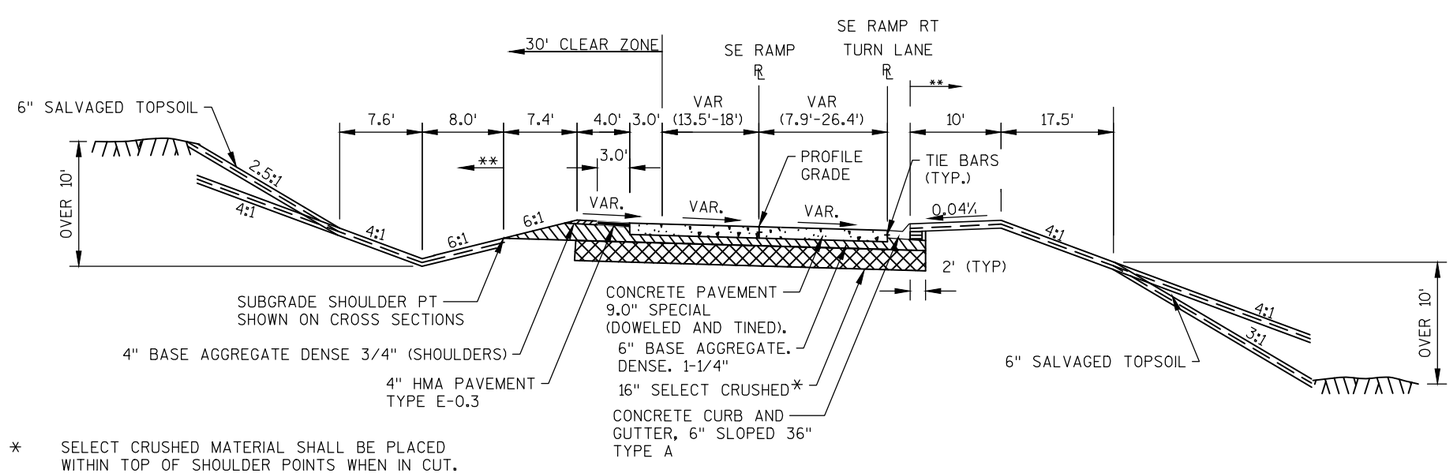


* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX = 0.06%

FINISHED TYPICAL SECTION
SE RAMP
APPROXIMATE LIMITS:
STA 175+75 - STA 177+75



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

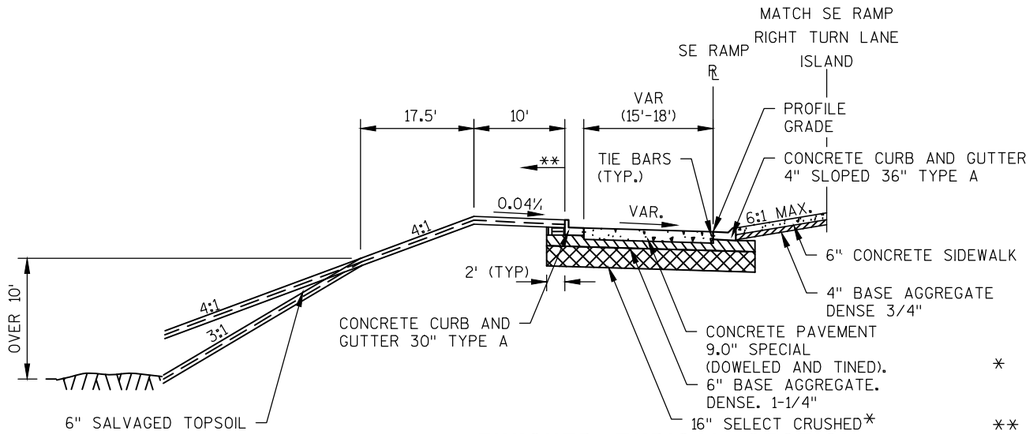
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX = 0.06%

FINISHED TYPICAL SECTION
SE RAMP
APPROXIMATE LIMITS:
STA 177+75 - STA 179+45.5

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: SE RAMP	SHEET 20	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\020310_TS_FIN_72.DWG
81100272_PLANSHTS - 020310_TS_FIN_72 - F_TS_11
PLOT DATE : 9/25/2014 11:23 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ----------
WISDOT/CADDS SHEET 42



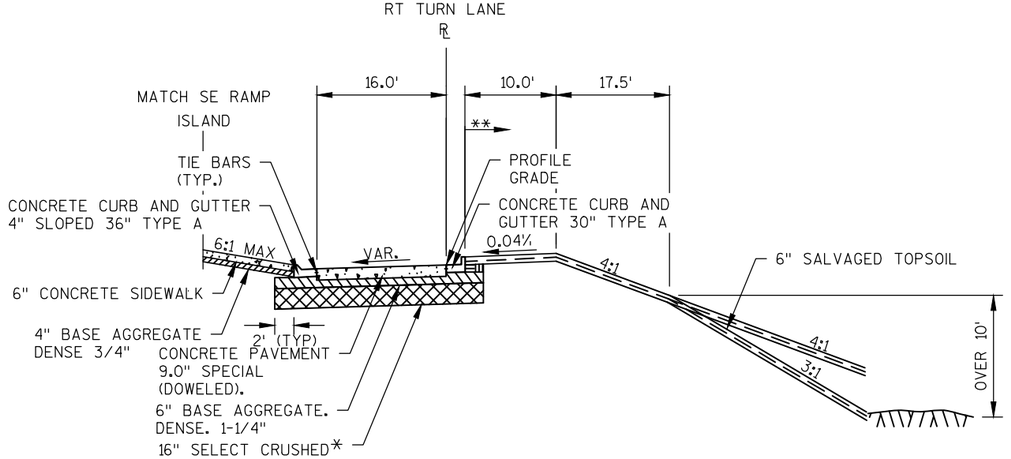
FINISHED TYPICAL SECTION
SE RAMP

APPROXIMATE LIMITS:
STA 179+45.5 - STA 181+76

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX. = 0.034⅛



FINISHED TYPICAL SECTION
STH 35 SE RAMP RT TURN LANE

APPROXIMATE LIMITS:
STA 179+44 - STA 181+59

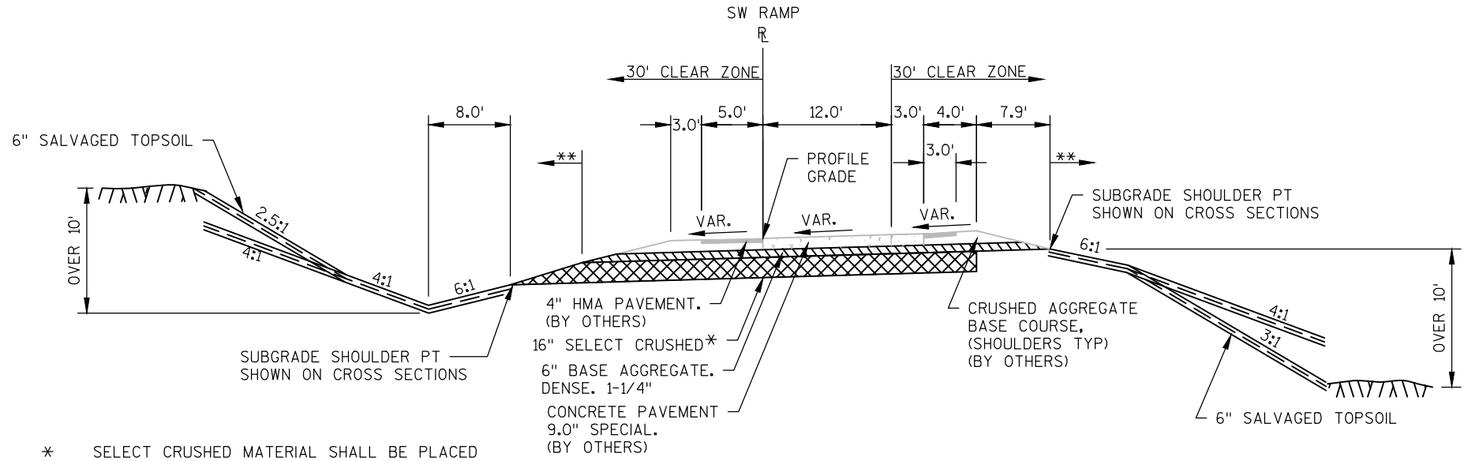
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX. = 0.034⅛

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: SE RAMP	SHEET 21	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\020310_TS_FIN_72.DWG
81100272_PLANSHTS - 020310_TS_FIN_72 - F_TS_12
PLOT DATE : 9/25/2014 11:23 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ----------
WISDOT/CADDS SHEET 42



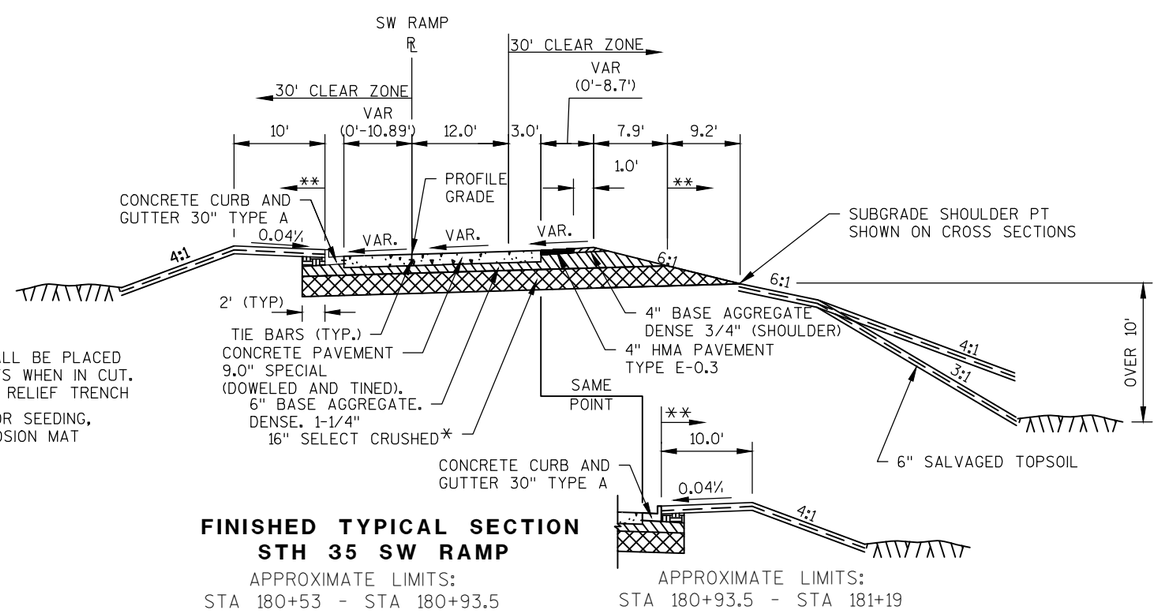
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

SE MAX. = 0.023%

FINISHED TYPICAL SECTION
STH 35 SW RAMP
APPROXIMATE LIMITS:
STA 176+00 - STA 180+53



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

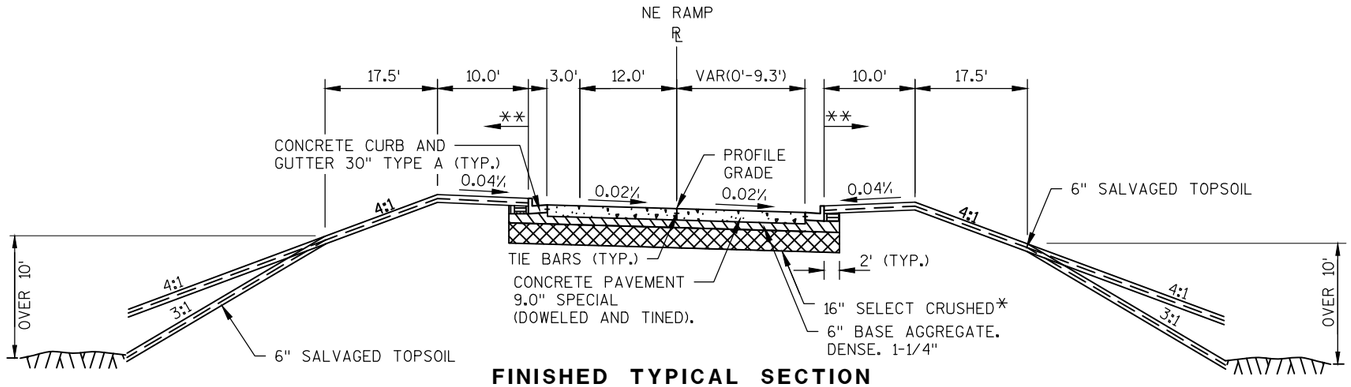
*** SPECIAL DITCH ELEVATION

SE VAR. FROM 0.0% TO 0.02%

FINISHED TYPICAL SECTION
STH 35 SW RAMP
APPROXIMATE LIMITS:
STA 180+53 - STA 180+93.5

APPROXIMATE LIMITS:
STA 180+93.5 - STA 181+19

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: SW RAMP	SHEET 22	E

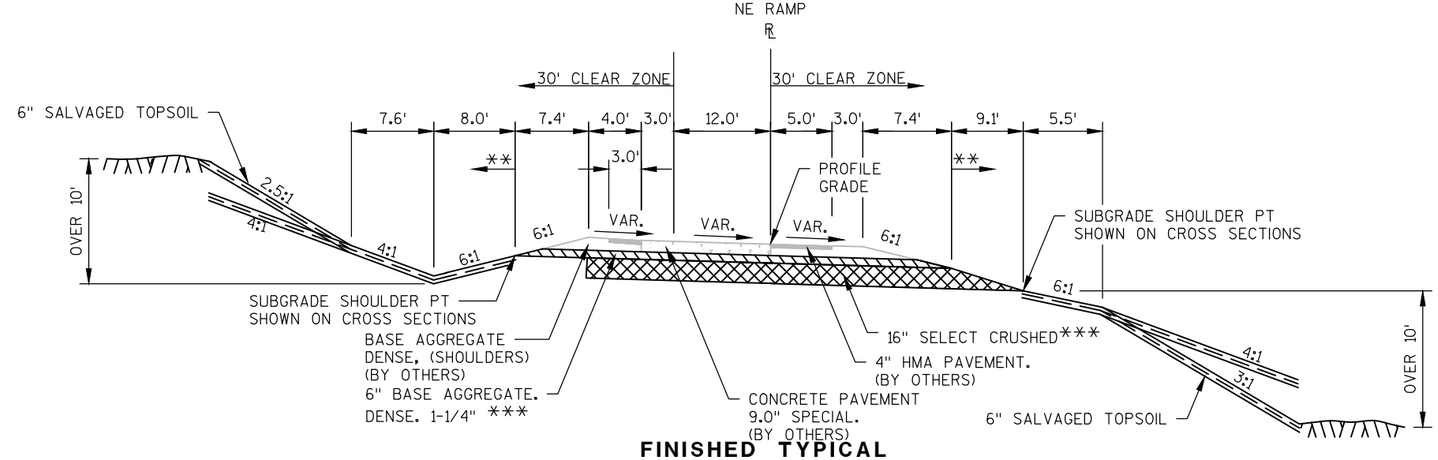


FINISHED TYPICAL SECTION
STH 35 NE RAMP
APPROXIMATE LIMITS:
STA 182+33 - STA 183+21

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION



FINISHED TYPICAL SECTION
STH 35 NE RAMP
APPROXIMATE LIMITS:
STA 183+21 - STA 186+60
STA 186+60 - STA 194+30

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

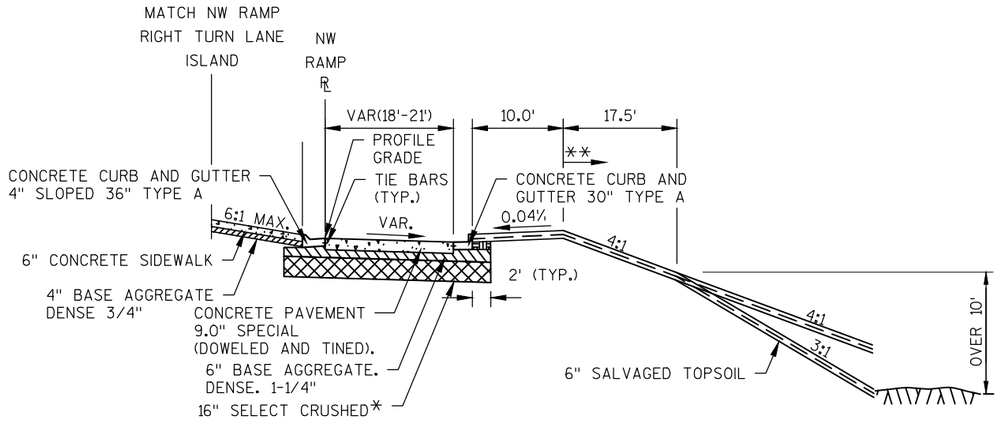
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

SE MAX = 0.06⅛

*** STA. 186+60 - STA.194+30 SUBGRADE PLACED IN PREVIOUS CONTRACT.

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: NE RAMP	SHEET 23	E

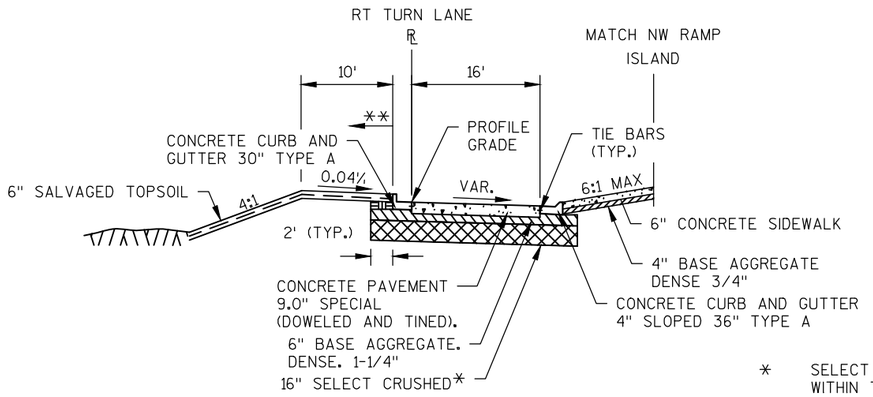


FINISHED TYPICAL SECTION
STH 35 NW RAMP
APPROXIMATE LIMITS:
STA 180+79 - STA 183+06

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX = 0.02%



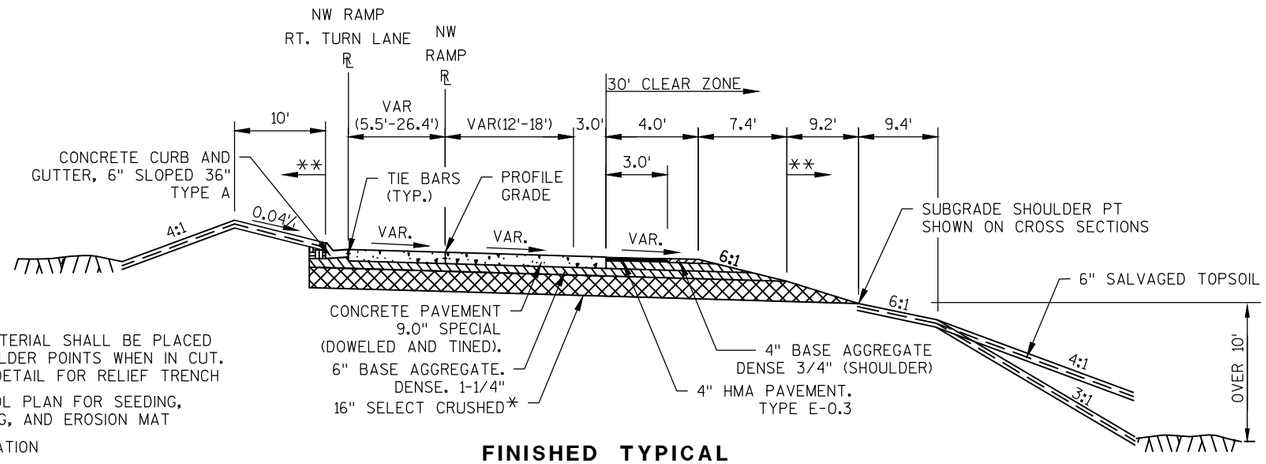
FINISHED TYPICAL SECTION
STH 35 NW RAMP RT. TURN LANE
APPROXIMATE LIMITS:
STA 180+92 - STA 183+06

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX. = 0.02%

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/NW RAMP	SHEET 24	E

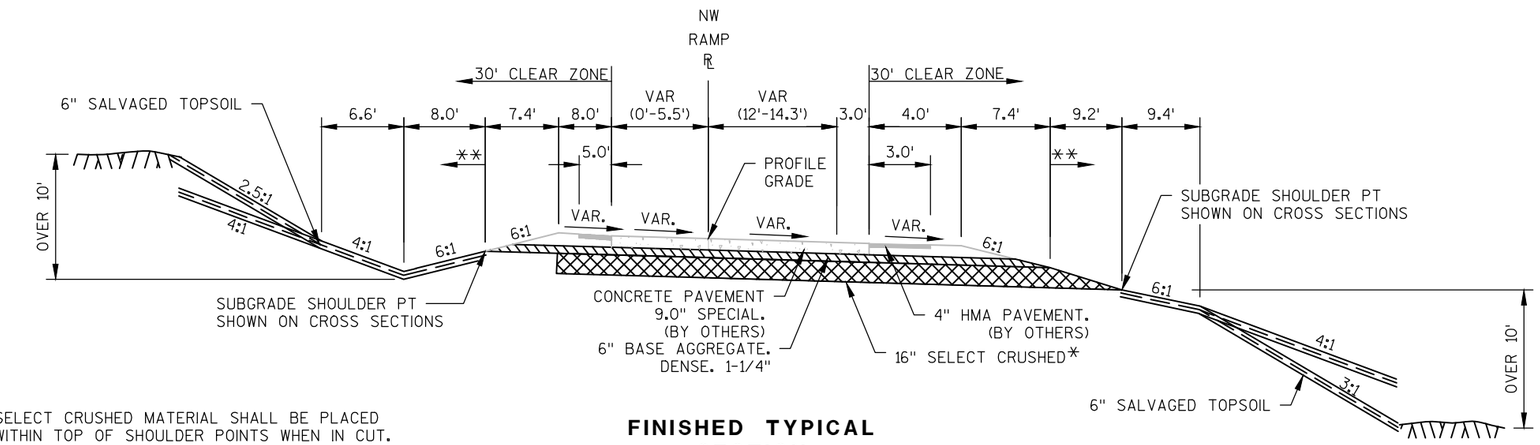


* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX. = 0.058%

FINISHED TYPICAL SECTION
STH 35 NW RAMP
APPROXIMATE LIMITS:
STA 183+06 - STA 184+75



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

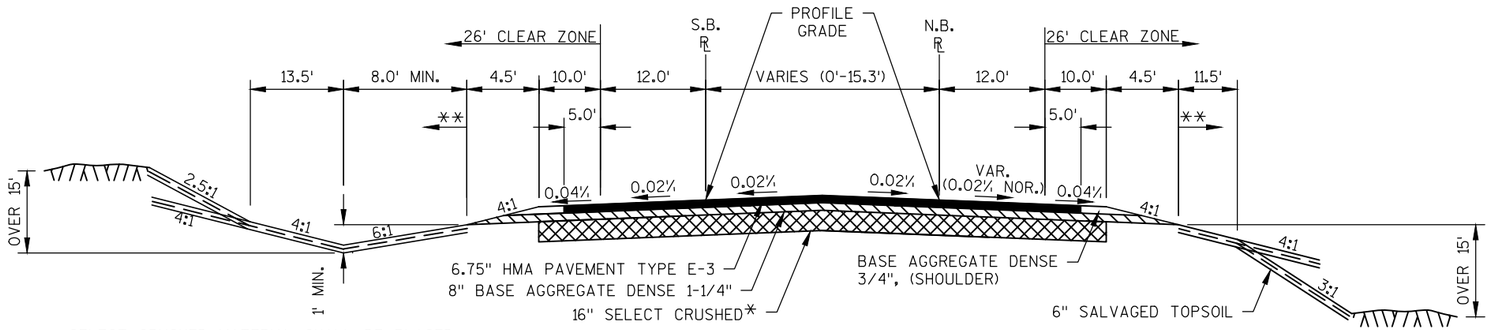
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX = 0.058%

FINISHED TYPICAL SECTION
STH 35 NW RAMP
APPROXIMATE LIMITS:
STA 184+75 - STA 194+00

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/NW RAMP	SHEET 25	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\020310_TS_FIN_72.DWG
81100272_PLANSHTS - 020310_TS_FIN_72 - F_TS_16
PLOT DATE : 9/25/2014 11:23 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ----------
WISDOT/CADDS SHEET 42



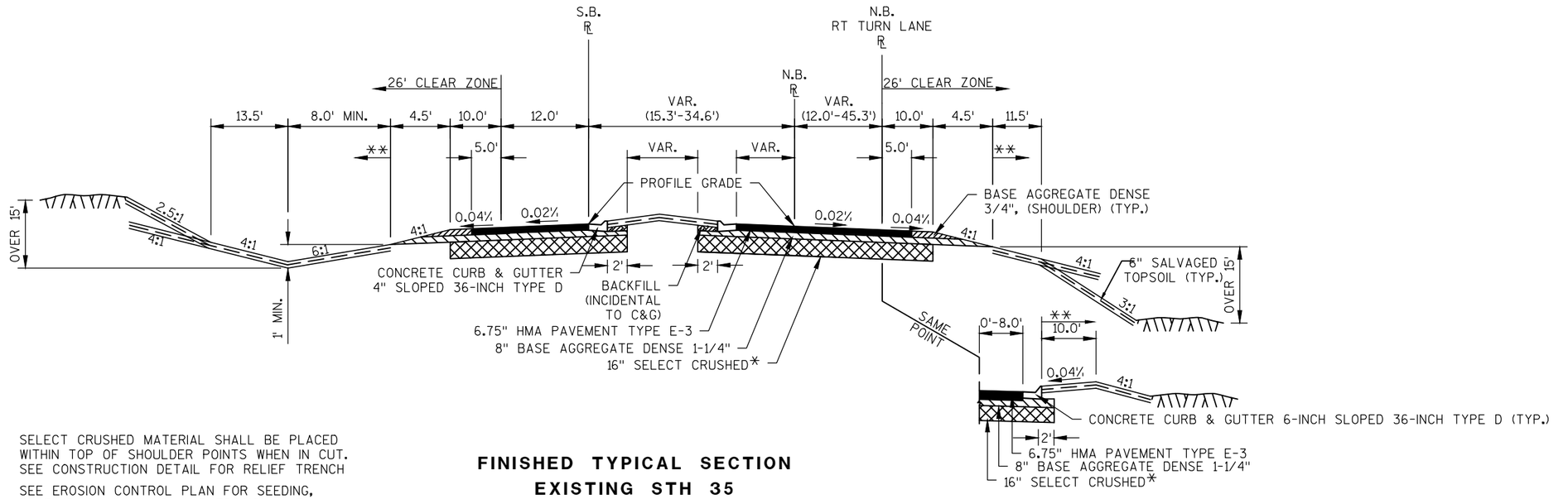
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX. = 0.03⅛

FINISHED TYPICAL SECTION
EXISTING STH 35

STA 297+60 - STA 301+39 N.B. EXISTING STH 35
STA 297+59 - STA 301+39 S.B. EXISTING STH 35



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

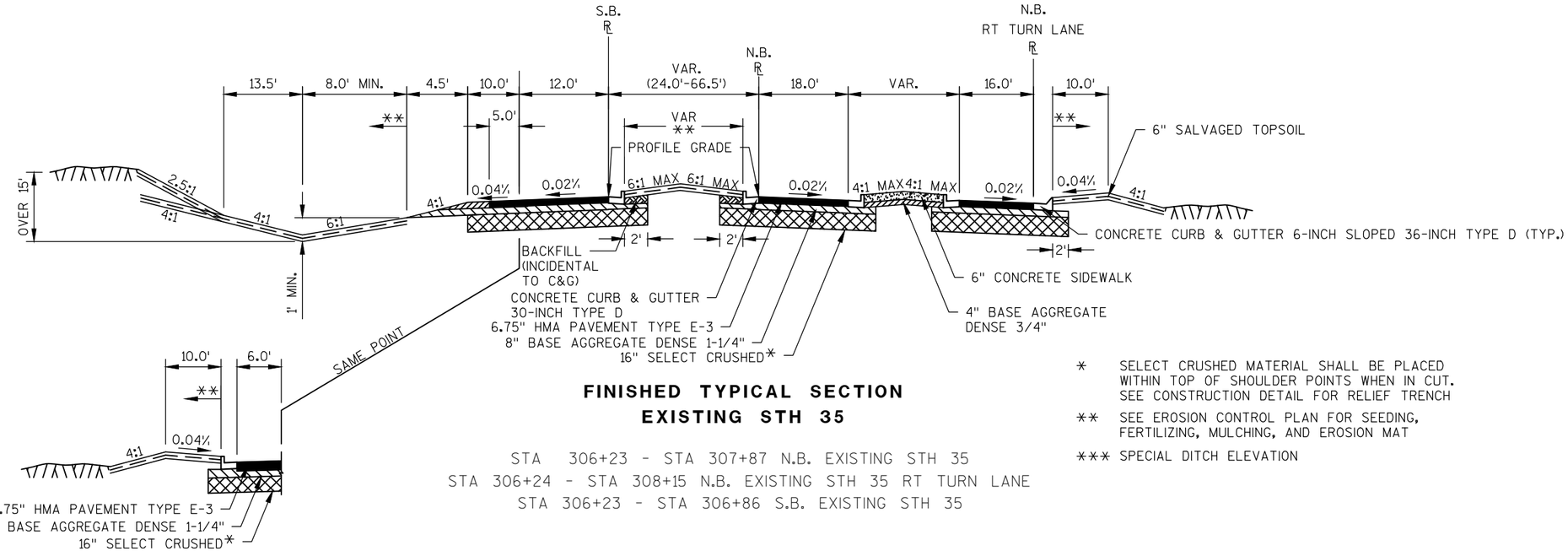
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
EXISTING STH 35

STA 301+39 - STA 306+23 N.B. EXISTING STH 35
STA 302+43 - STA 306+24 N.B EXISTING STH 35 RT TURN LANE
STA 301+39 - STA 306+23 S.B. EXISTING STH 35

STA 304+72 - STA 306+23 N.B. EXISTING STH 35
STA. 304+75 - STA. 306+24 N.B. EXISTING STH 35 RT TURN LANE



FINISHED TYPICAL SECTION
EXISTING STH 35

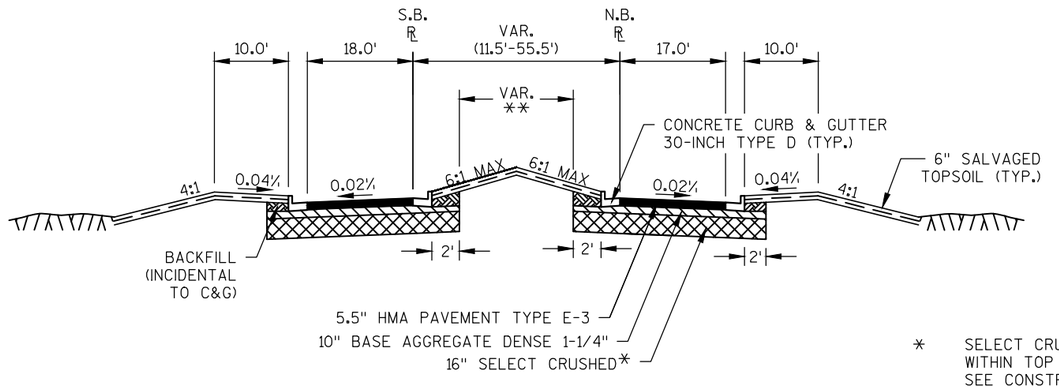
STA 306+23 - STA 307+87 N.B. EXISTING STH 35
STA 306+24 - STA 308+15 N.B. EXISTING STH 35 RT TURN LANE
STA 306+23 - STA 306+86 S.B. EXISTING STH 35

STA 306+86 - STA 307+99 S.B. EXISTING STH 35

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION



FINISHED TYPICAL SECTION
MAIN STREET

STA 309+73 - STA 312+54 N.B.
STA 309+80 - STA 312+58 S.B.

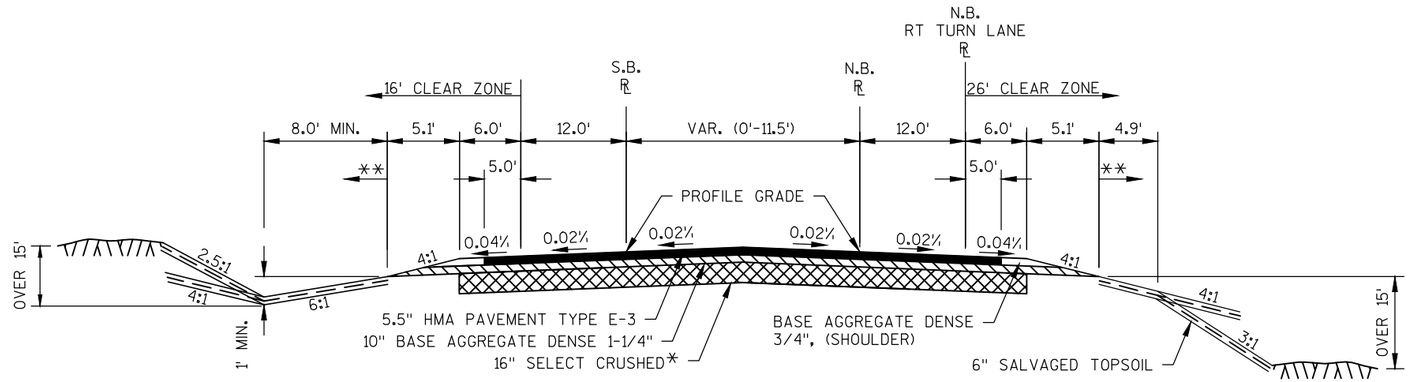
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35/MAIN ST	SHEET 27	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\020310_TS_FIN_72.DWG
81100272_PLANSHTS - 020310_TS_FIN_72 - F_TS_18
PLOT DATE : 9/25/2014 11:23 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ----------
WISDOT/CADDS SHEET 42



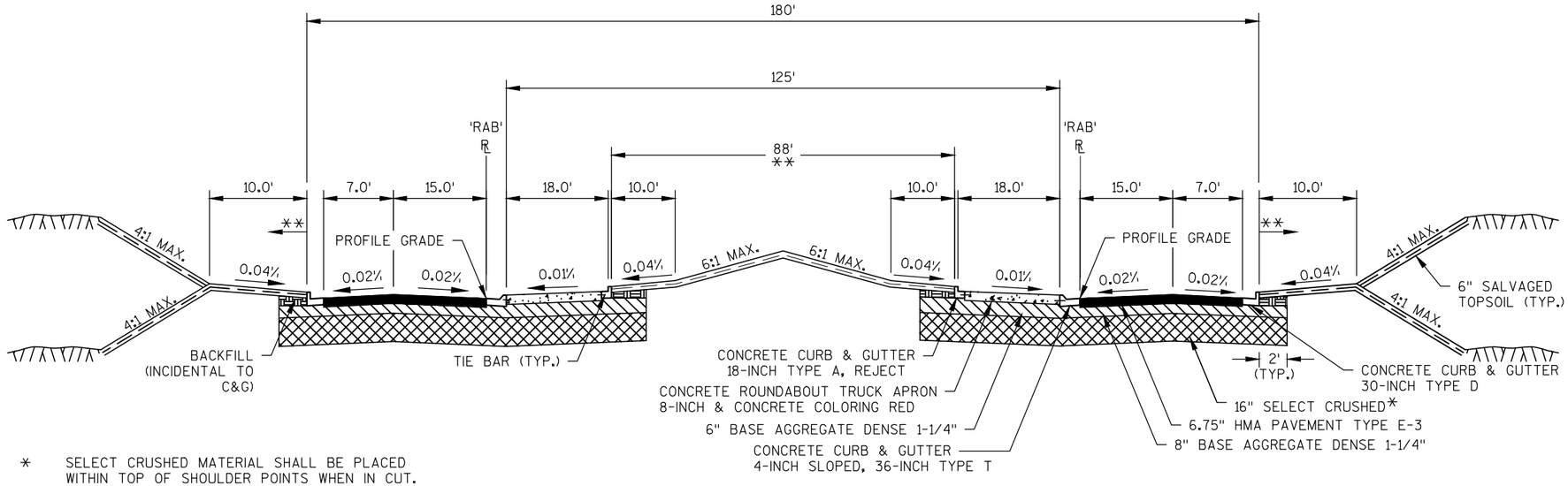
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
MAIN STREET

STA 312+54 - STA 317+78 N.B.
STA 312+58 - STA 317+84 S.B.



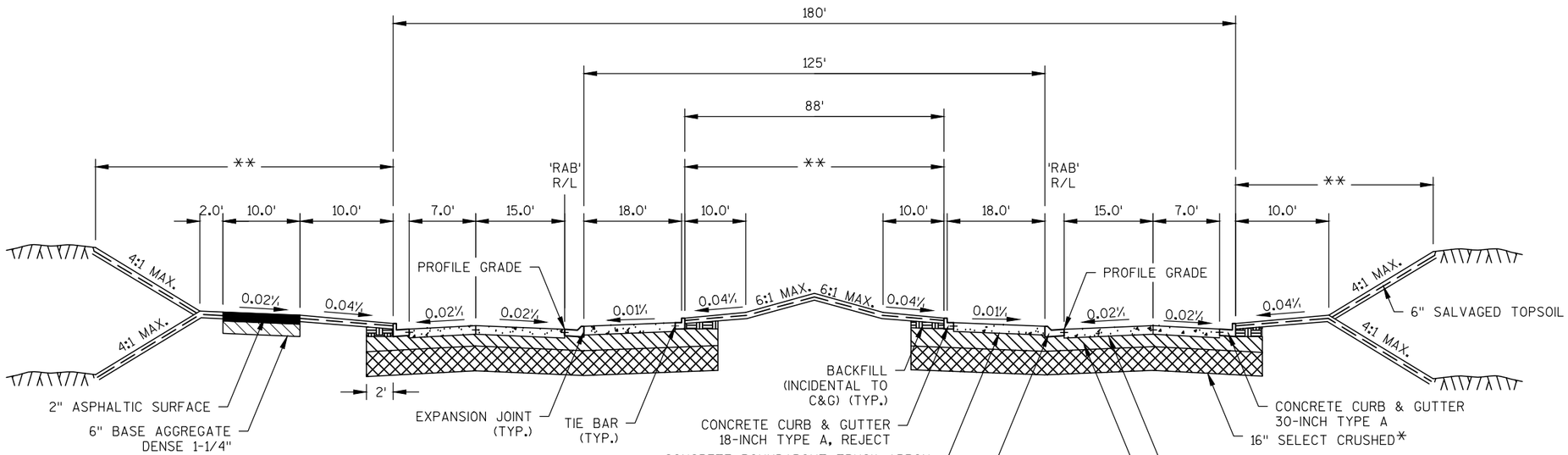
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35/MAIN STREET ROUNDABOUT

STA 5+00 - STA 9+11

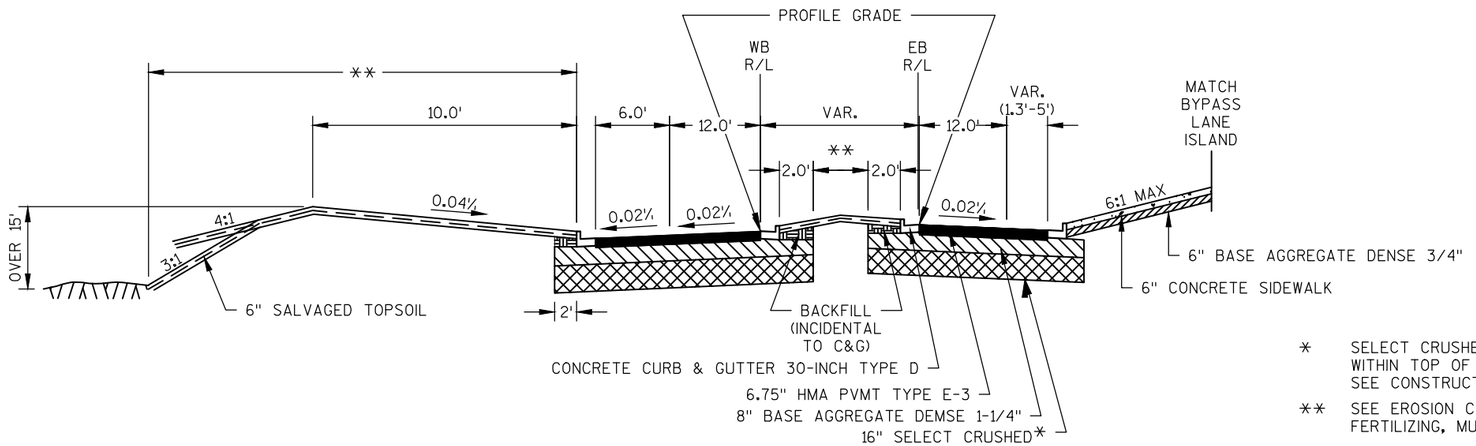


* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35 RAMP TERMINAL ROUNDABOUTS
STA 5+00 - STA 9+11



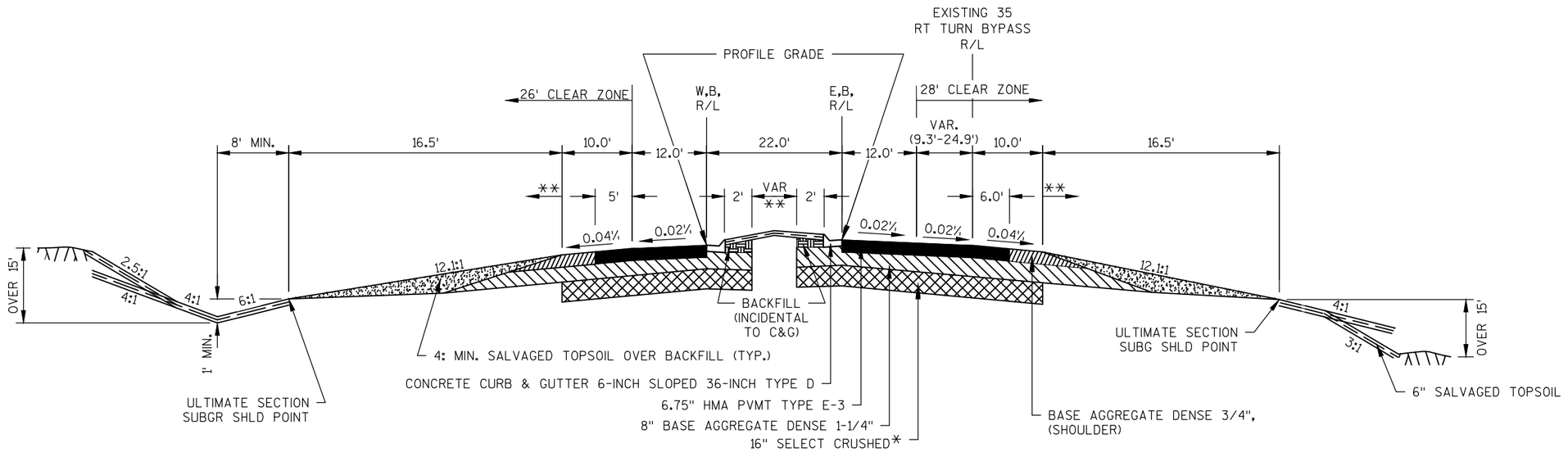
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35
STA 5+65 - STA 6+59 E.B.
STA 5+67 - STA 7+69 W.B.

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35 TERM RAB'S, STH 35	SHEET 29	E



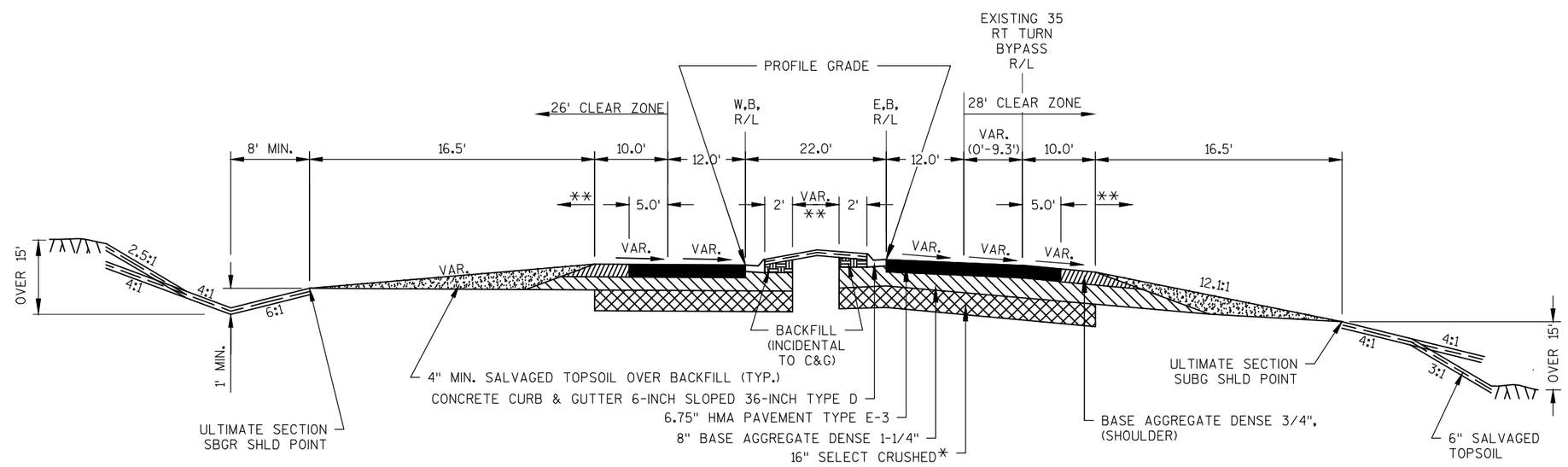
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION STH 35

STA 6+59 - STA 8+82 E.B.
STA 7+69 - STA 8+71 W.B.



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

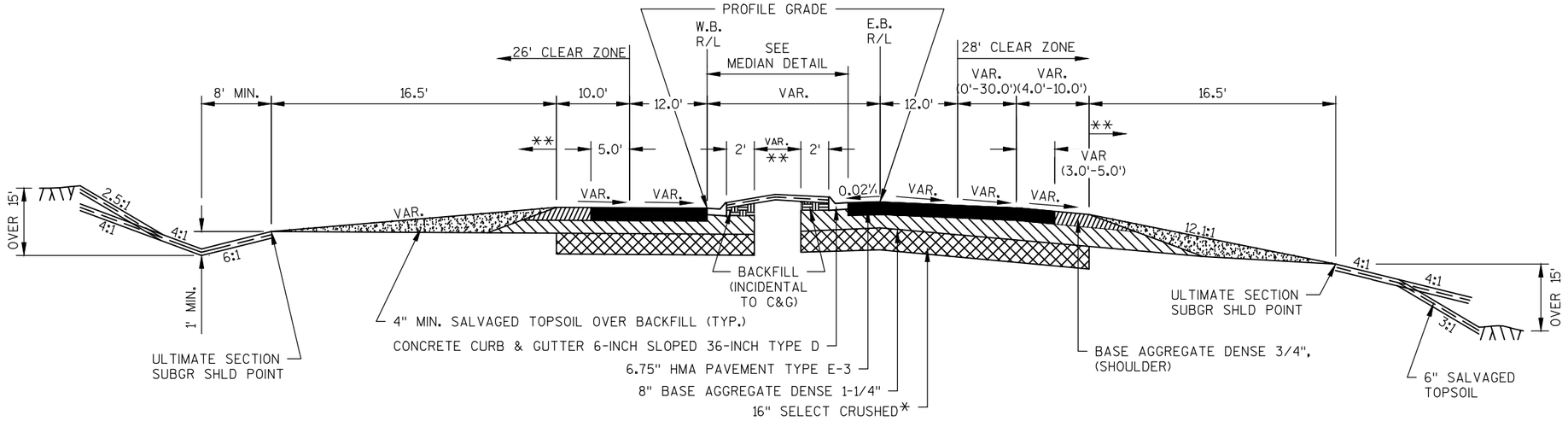
*** SPECIAL DITCH ELEVATION

SE MAX. = 0.028¼

FINISHED TYPICAL SECTION STH 35

STA 8+82 - STA 13+48 E.B.
STA 8+71 - STA 13+39 W.B.

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35	SHEET 30	E



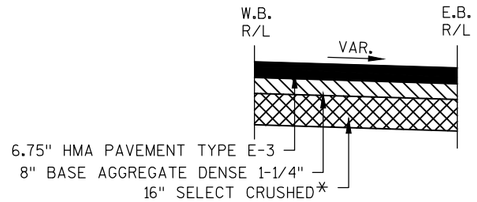
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE VAR TO A 0.028¼ MAX SUPER

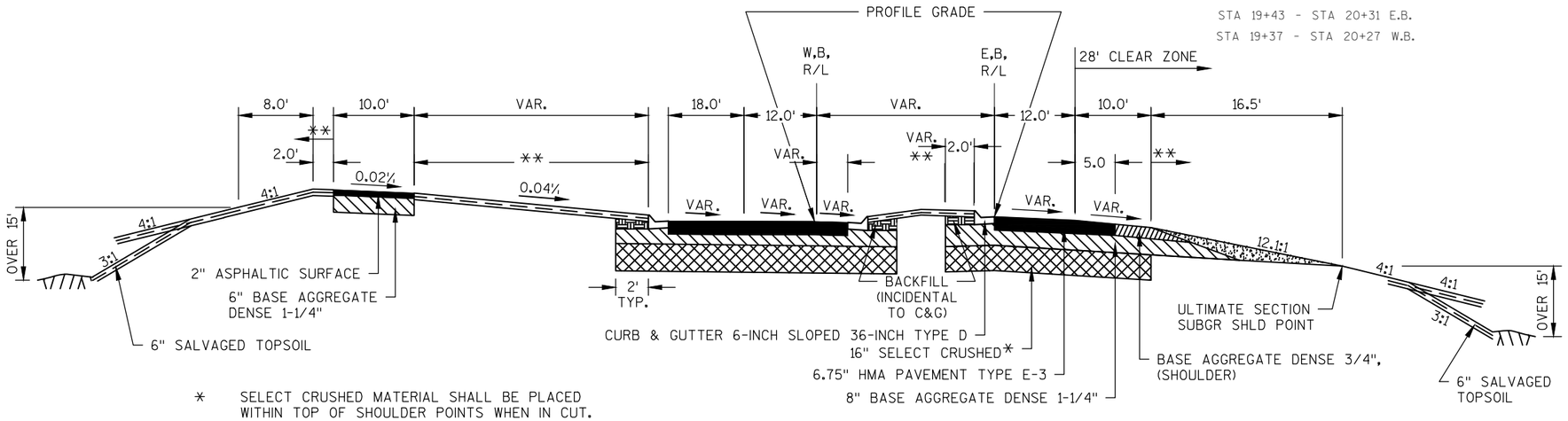
FINISHED TYPICAL SECTION STH 35

STA 13+48 - STA 20+31 E.B.
STA 13+39 - STA 20+27 W.B.



MEDIAN DETAIL

STA 19+43 - STA 20+31 E.B.
STA 19+37 - STA 20+27 W.B.



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

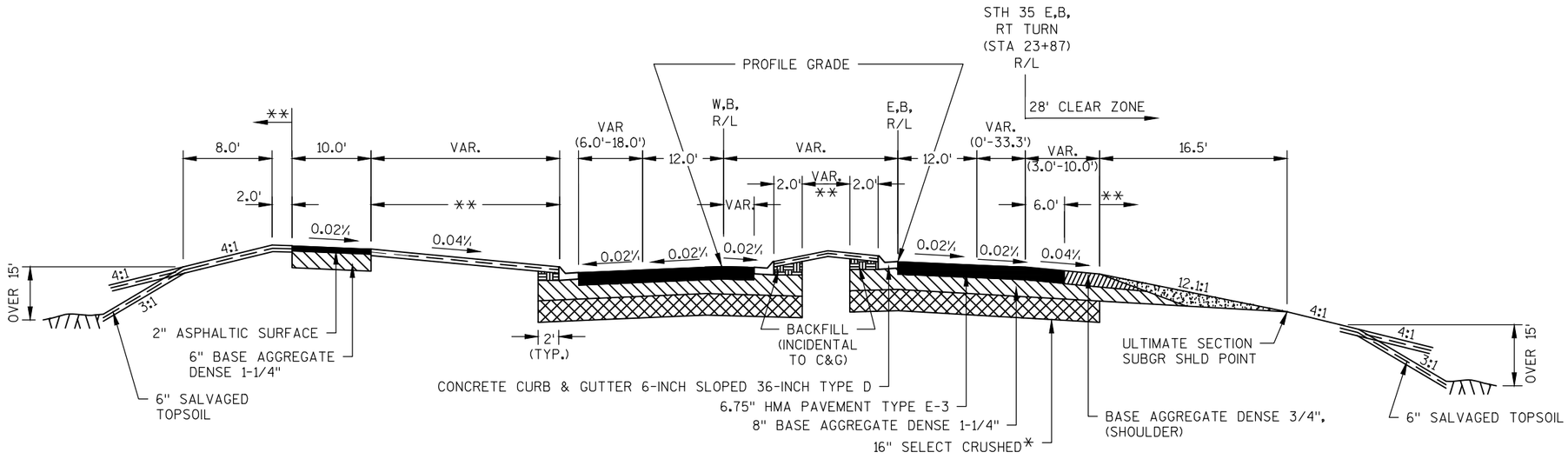
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE VAR TO A 0.028¼ MAX SUPER

FINISHED TYPICAL SECTION STH 35

STA 20+31 - STA 23+11 E.B.
STA 20+27 - STA 23+07 W.B.

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35	SHEET 31	E

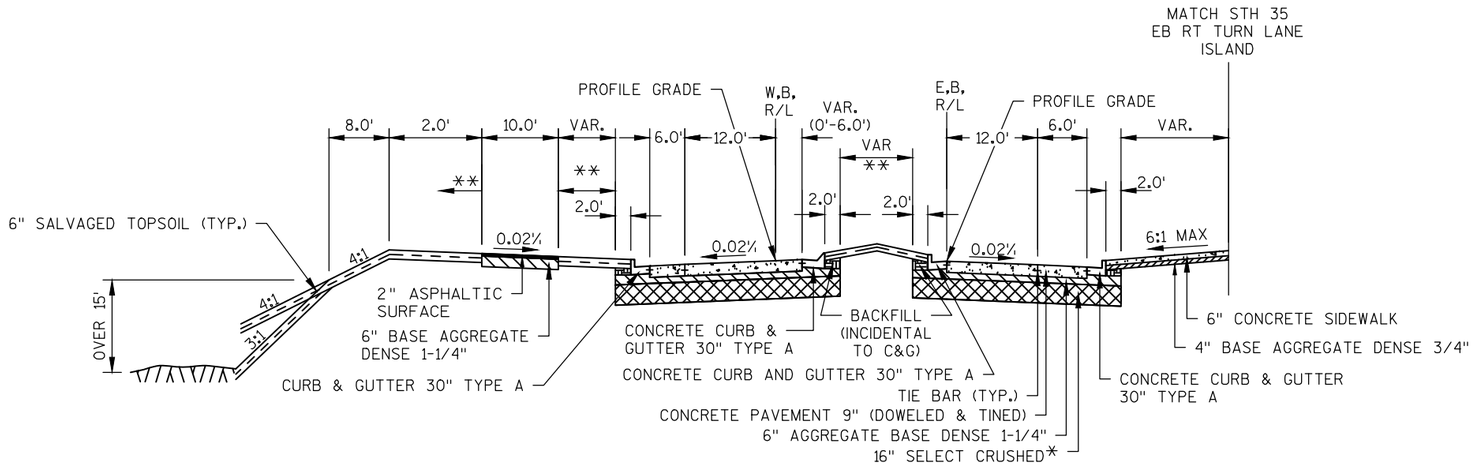


* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35
STA 23+11 - STA 27+76 E.B.
STA 23+07 - STA 28+03 W.B.



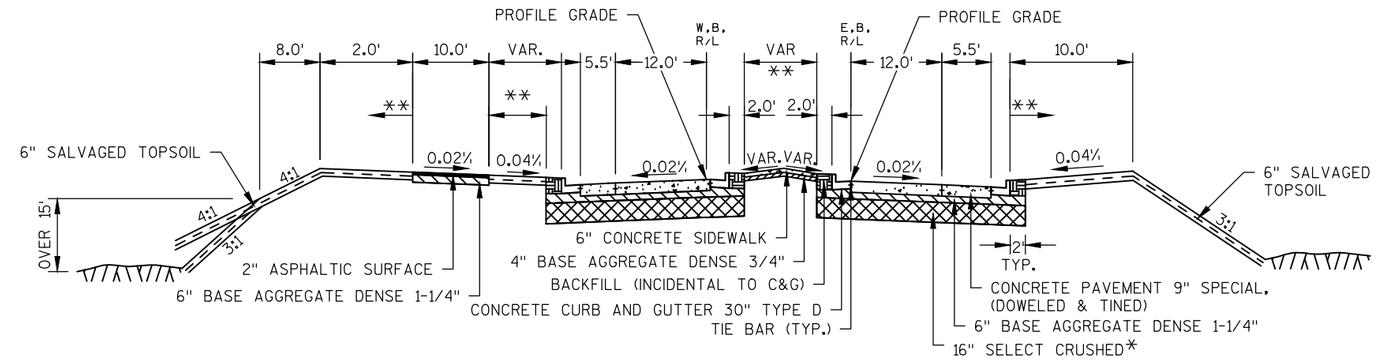
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35
STA 27+76 - STA 29+44 E.B.
STA 28+03 - STA 29+70 W.B.

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: STH 35	SHEET 32	E



* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

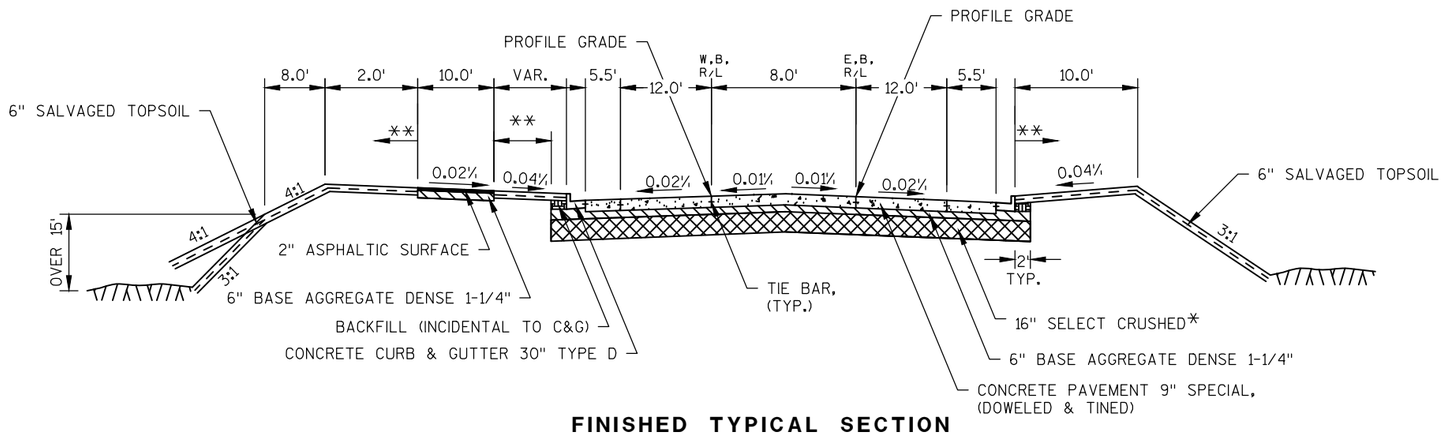
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35

STA 31+15 - STA 33+13 E.B.
STA 31+38 - STA 33+26 W.B.

STA 36+70 - STA 37+58 E.B.
STA 36+83 - STA 37+78 W.B.



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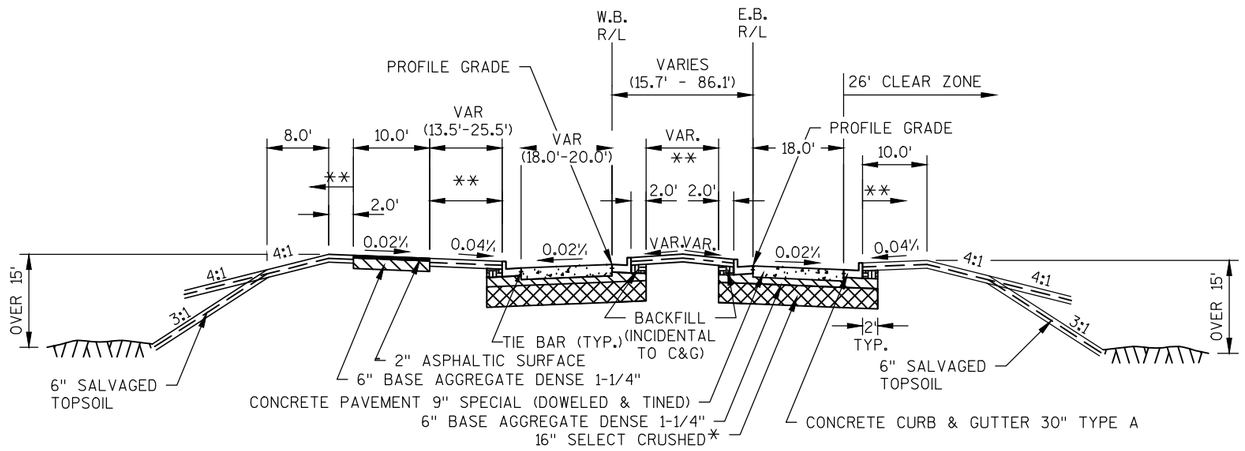
** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
STH 35

STA 36+65 - STA 36+70 E.B.
STA 36+80 - STA 36+83 W.B.

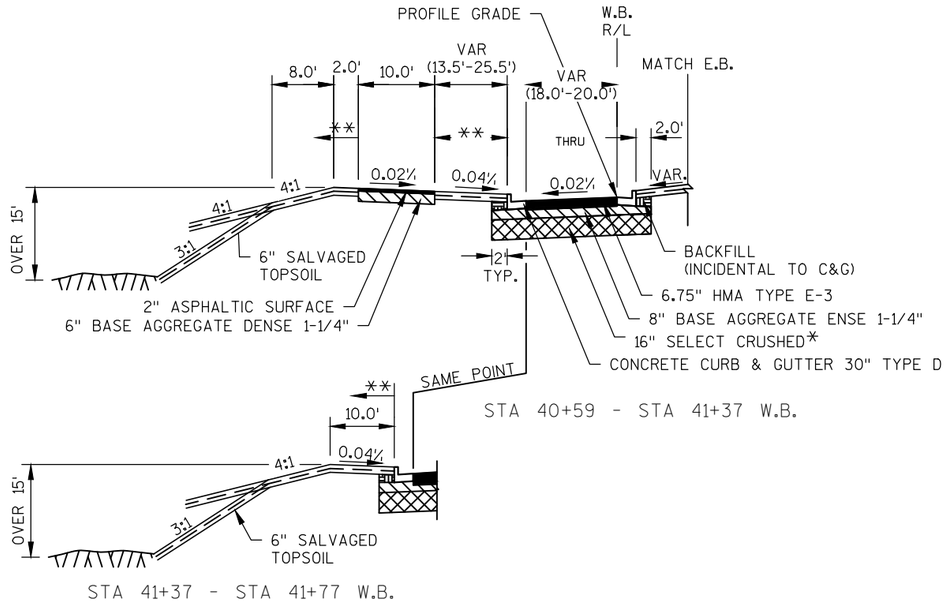
STA 33+13 - STA 34+09 E.B.
STA 33+26 - STA 34+23 W.B.



FINISHED TYPICAL SECTION

CTH E

STA 39+25 - STA 40+71 E.B.
STA 39+60 - STA 40+59 W.B.



STA 40+59 - STA 41+37 W.B.

STA 41+37 - STA 41+77 W.B.

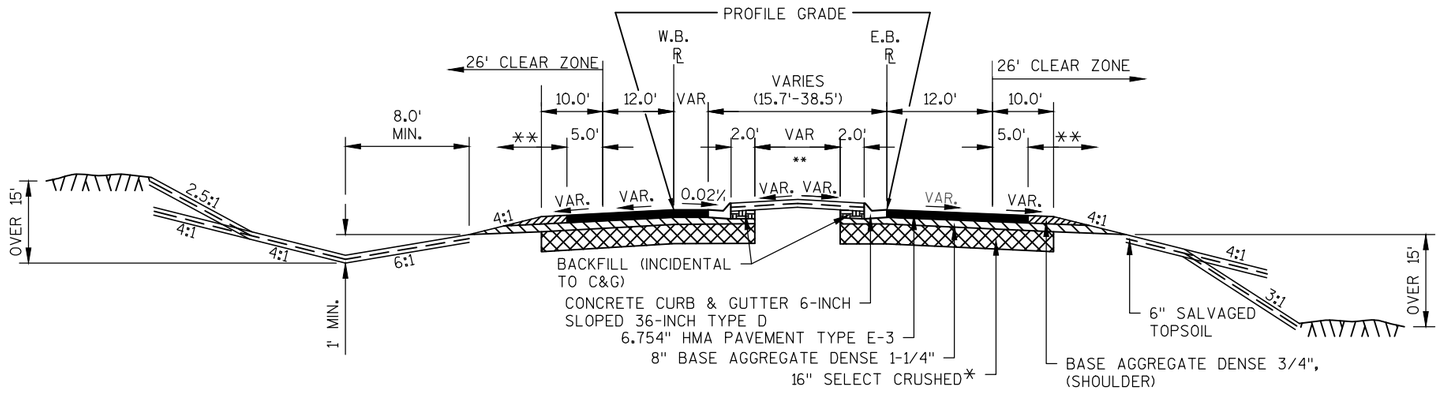
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: CTH E	SHEET 34	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\020310_TS_FIN_72.DWG
81100272_PLANSHTS - 020310_TS_FIN_72 - F_TS_25
PLOT DATE : 9/25/2014 11:23 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ----------
WISDOT/CADDS SHEET 42

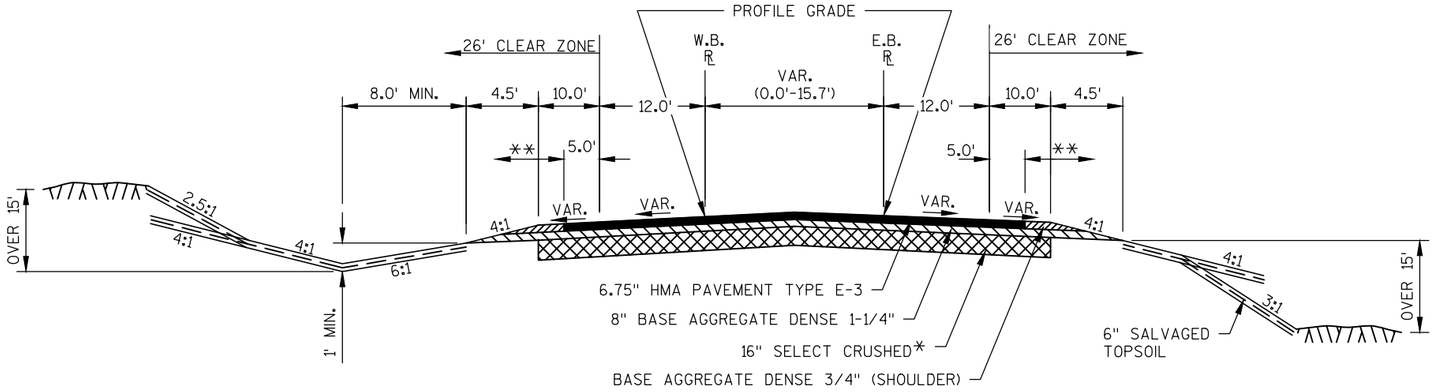


FINISHED TYPICAL SECTION
CTH E
STA 40+71 - STA 44+75 E.B.
STA 41+77 - STA 44+90 W.B.

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION
SE MAX = 0.058%

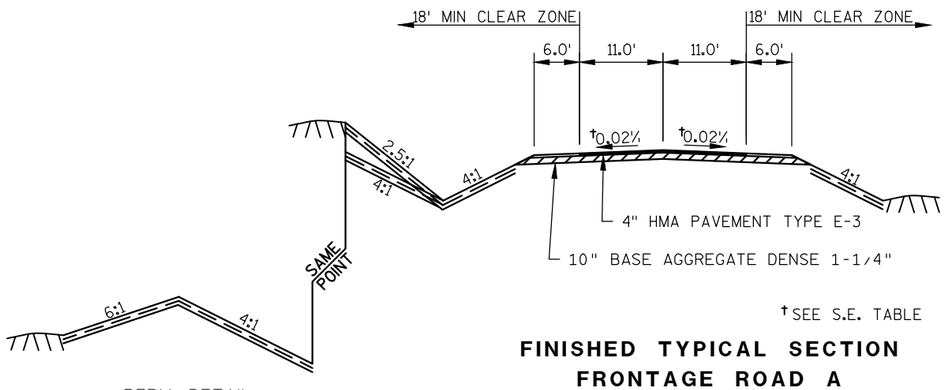


FINISHED TYPICAL SECTION
CTH E
STA 44+75 - STA 55+28 E.B.
STA 44+90 - STA 55+28 W.B.

* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

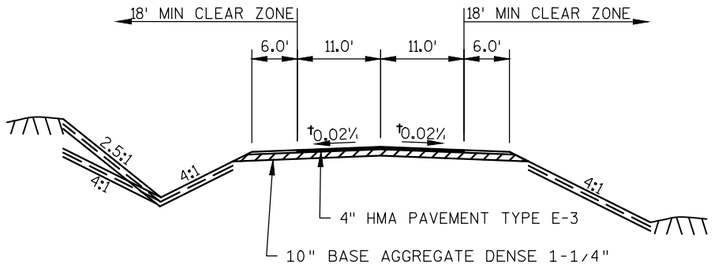
*** SPECIAL DITCH ELEVATION
SE VAR TO A 0.058% MAX SUPER



BERM DETAIL
STA 229+50 - STA 248+61

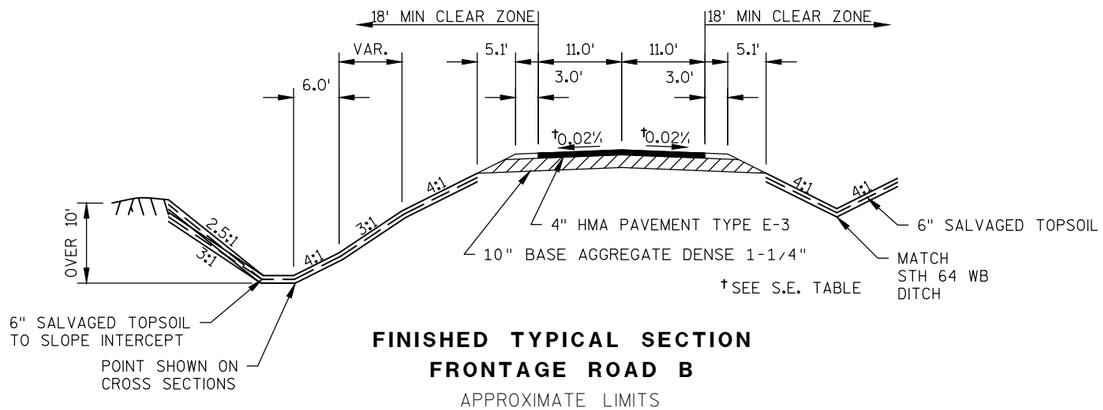
†SEE S.E. TABLE

FINISHED TYPICAL SECTION
FRONTAGE ROAD A
APPROXIMATE LIMITS
STA 216+55 - STA 229+50
STA 248+61 - STA 250+71

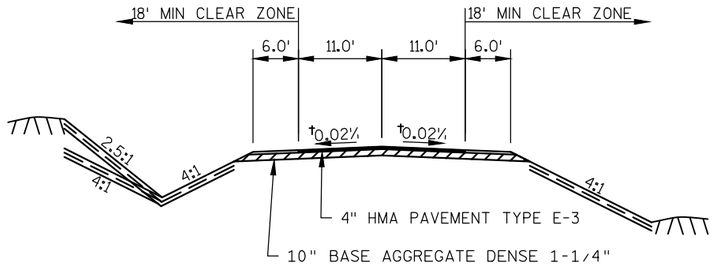


†SEE S.E. TABLE

FINISHED TYPICAL SECTION
FRONTAGE ROAD C
APPROXIMATE LIMITS
STA 234+00 - STA 240+19
STA 257+15 - STA 272+67



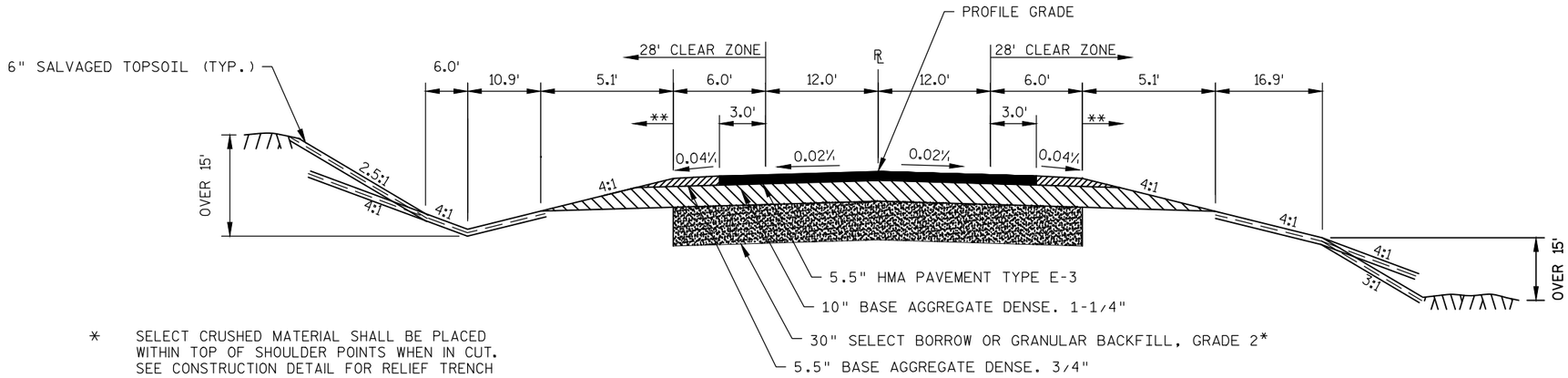
FINISHED TYPICAL SECTION
FRONTAGE ROAD B
APPROXIMATE LIMITS
STA 243+00 - STA 265+27



†SEE S.E. TABLE

FINISHED TYPICAL SECTION
MILL AND RELAY
FRONTAGE ROAD C
APPROXIMATE LIMITS
STA 240+19 - STA 257+15

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	FINISHED TYPICAL SECTION: FRONTAGE ROAD A, B, C	SHEET 36	E



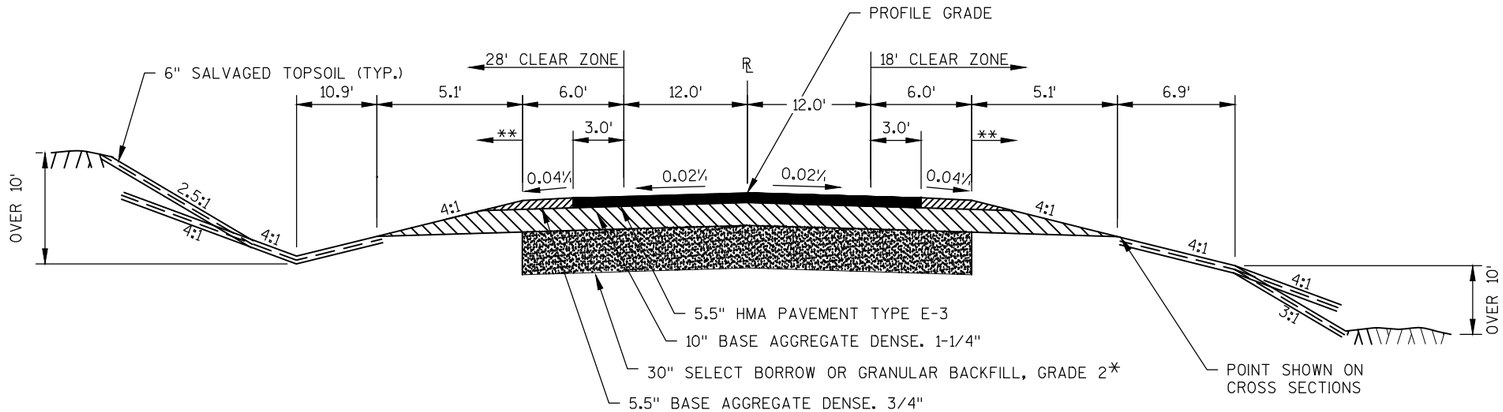
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
THELEN FARM TRAIL

STA 80+22 - STA 83+94.5



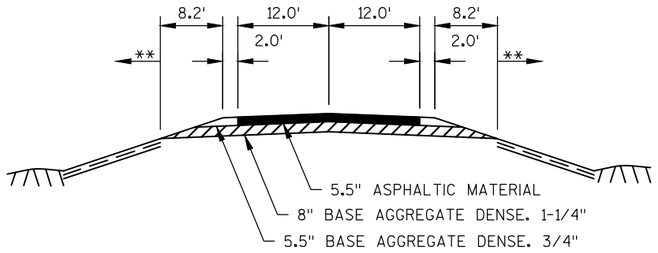
* SELECT CRUSHED MATERIAL SHALL BE PLACED WITHIN TOP OF SHOULDER POINTS WHEN IN CUT. SEE CONSTRUCTION DETAIL FOR RELIEF TRENCH

** SEE EROSION CONTROL PLAN FOR SEEDING, FERTILIZING, MULCHING, AND EROSION MAT

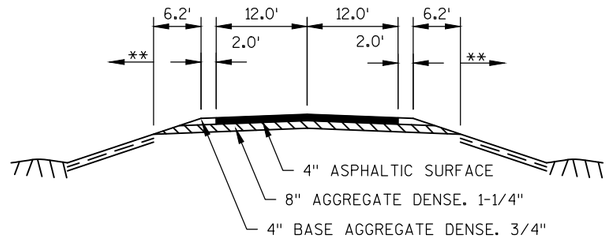
*** SPECIAL DITCH ELEVATION

FINISHED TYPICAL SECTION
SCHOOL ROAD

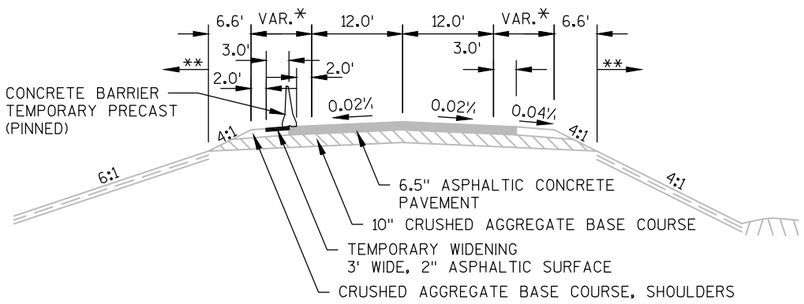
STA 10+12 - STA 18+09



FINISHED TYPICAL SECTION
STH 64 TEMPORARY CROSSOVER
APPROXIMATE LIMITS
STA 216+55 - STA 239+85



FINISHED TYPICAL SECTION
STH 35 TEMPORARY BYPASS
APPROXIMATE LIMITS
STA 0+00 - STA 23+67



*VAR SHOULDER WIDTH = 8.0' STA 220+00 - 270+00
10.0' STA 270+00 - 290+00

FINISHED TYPICAL SECTION
STH 35/64 TEMPORARY
WIDENING
STA 260+00 - 290+00

2

N

MAIN ST (OLD STH 35)
5.5" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
10" BASE

SCHOOL RD
5.5" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
10" BASE COURSE
30" SELECT BORROW

STH 35 SB
6.75" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
18" BASE COURSE
16" SUBBASE

MAIN ST RAB

STH 35 TEMPORARY BYPASS
4" ASP SURFACE
8" BASE COURSE

STH 35 SB/NB
6.75" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
8" BASE COURSE
16" SUBBASE

STH 35 NB
6.75" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
8" BASE COURSE
16" SUBBASE

STH 35 WEST RAB
9" CONCRETE PVMT
6" BASE COURSE
16" SUBBASE
SHOULDERS
4" HMA PVMT TYPE E-0.3
ASP MATERIAL PG 58-34

END OF PAVEMENT CONSTRUCTION
STA 178+00

SHARED USE PATH
CONSTRUCTED UNDER
CONTRACT 8110-02-71

STH 64 SW RAMP
6" BASE COURSE,
OVERBUILD BASE COURSE BY 0.10
16" SUBBASE

STH 35/64 WB
6" BASE COURSE,
OVERBUILD BASE COURSE BY 0.10'
16" SUBBASE

STH 35/64 EB
6" BASE COURSE,
OVERBUILD BASE COURSE BY 0.10'
16" SUBBASE

STH 35 NW RAMP
6" BASE COURSE,
OVERBUILD BASE COURSE BY 0.10'
16" SUBBASE

STH 35 NE RAMP
6" BASE COURSE,
OVERBUILD BASE COURSE BY 0.10'
16" SUBBASE

END OF PAVEMENT CONSTRUCTION
STA 186+35

END OF PAVEMENT CONSTRUCTION
STA 185+50

STA 28+03

STA 27+76

STA 40+59

STA 40+71

THELEN FARM TRAIL
5.5" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
10" BASE COURSE

CTH E EB/WB
6.75" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
8" BASE COURSE
16" SUBBASE
SHOULDERS
4" HMA PVMT TYPE E-0.3
ASP MATERIAL PG 58-34

END OF PAVEMENT CONSTRUCTION
STA 177+11

STH 64 SE RAMP
6" BASE COURSE,
OVERBUILD BASE COURSE BY 0.10'
16" SUBBASE

EXISTING CTH E

0 250 500 750
FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT OVERVIEW	SHEET 39	E

2

N

STA 35/64 WB

STA 35/64 EB

STH 35/64 WB
STA 231+00 - 304+50
10.5" CONCRETE PVMT
6" BASE COURSE
16" SUBBASE
SHOULDERS
4" HMA PVMT TYPE E-0.3
ASP MATERIAL PG 58-34

STH 35/64 EB
6" BASE COURSE,
OVERBUILD BASE COURSE BY 0.10'
16" SUBBASE

TEMPORARY CONNECTION
4" TEMPORARY ASP SURFACE
8" BASE COURSE

FRONTAGE RD A
4" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
10" BASE COURSE

TEMPORARY CROSSOVER
5.5" TEMPORARY ASP SURFACE
8" BASE COURSE

FRONTAGE RD B
4" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
10" BASE COURSE

FRONTAGE RD C
STA 233+30.10 - 240+19.00
4" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
10" BASE COURSE

2" MILL AND OVERLAY
STA 240+19.00 - 257+15.47
FRONTAGE RD C/EXISTING STH 35/64

FRONTAGE RD C
STA 257+15.47 - 272+92.65
4" HMA PVMT TYPE E-3
ASP MATERIAL PG 64-34P
10" BASE COURSE

ANDERSON SCOUT CAMP RD

SETTLER'S WAY

20TH AVE

FRONTAGE RD A

FRONTAGE RD B

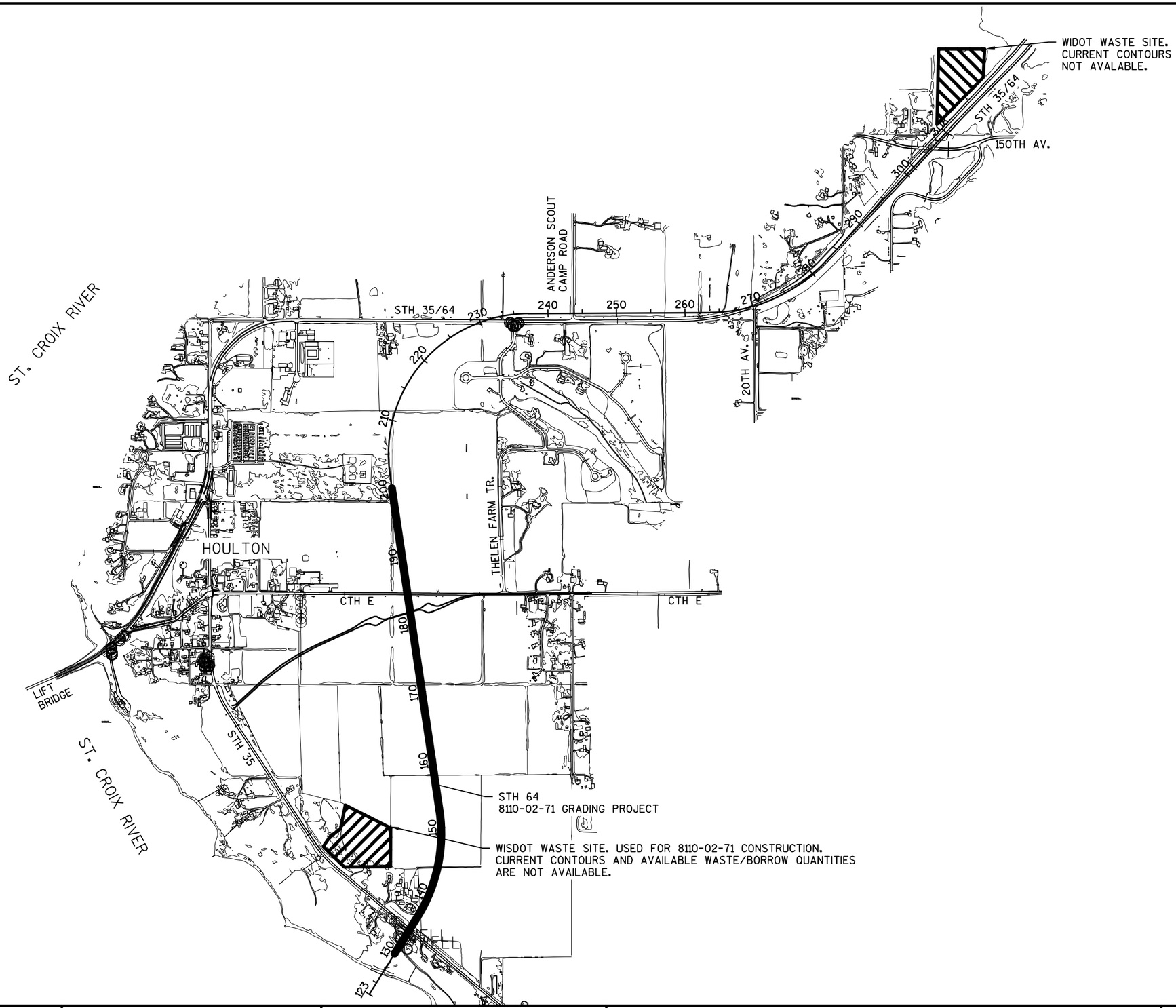
FRONTAGE RD C

0 250 500 750 FEET
SCALE

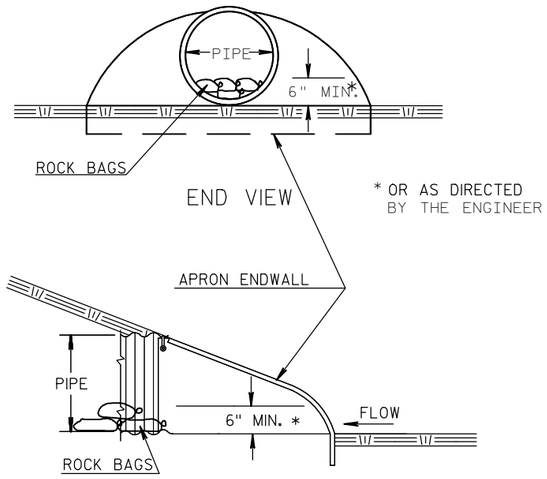
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT OVERVIEW	SHEET 40	E

2

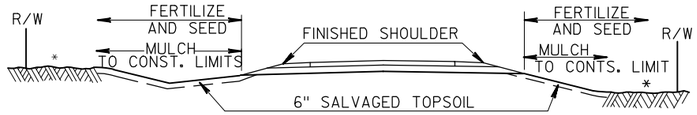
N



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	WASTE SITE OVERVIEW	SHEET 41	E

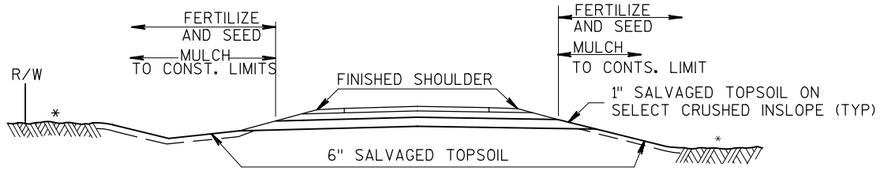


CULVERT PIPE CHECK



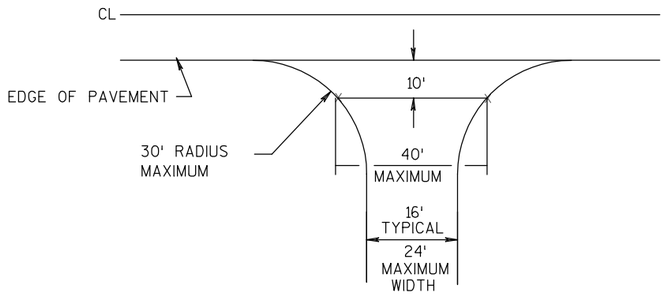
* DISTURBED AREAS TO BE FERTILIZED & SEEDED

ROADWAYS WITHOUT SUBGRADE TREATMENT
DETAIL FOR FINISHING ITEMS

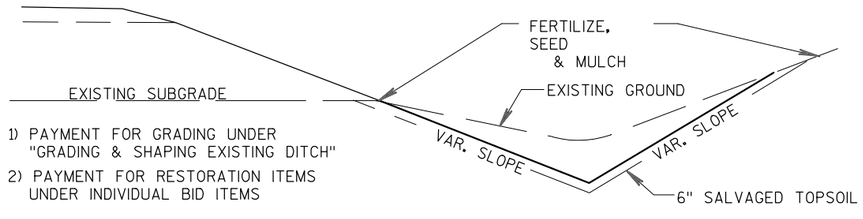


* DISTURBED AREAS TO BE FERTILIZED & SEEDED

ROADWAYS WITH SUBGRADE TREATMENT
DETAIL FOR FINISHING ITEMS



TYPICAL DRIVEWAY DETAIL
(NON-COMMERCIAL RURAL)



GRADING & SHAPING EXISTING DITCH

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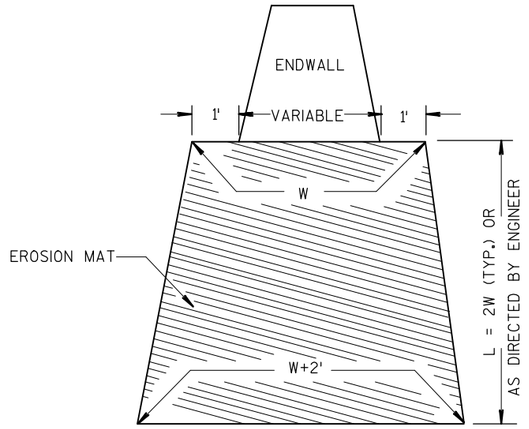
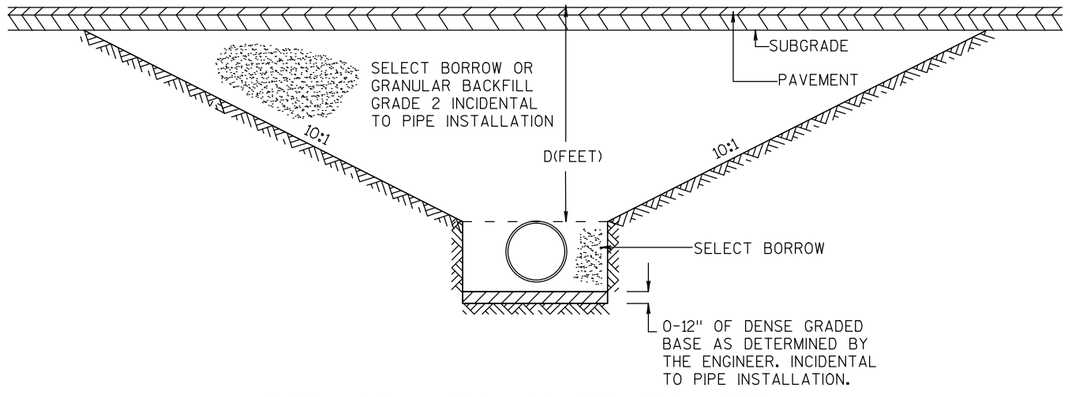
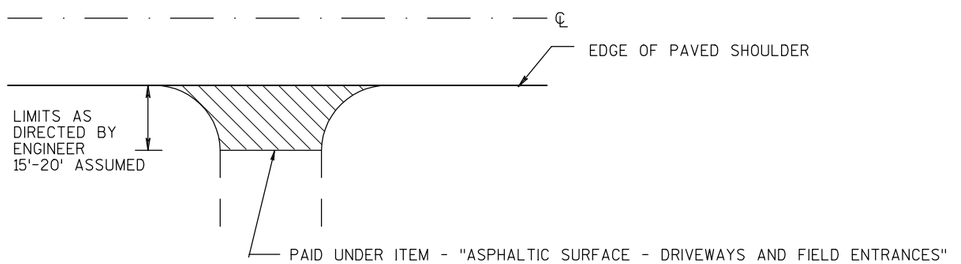


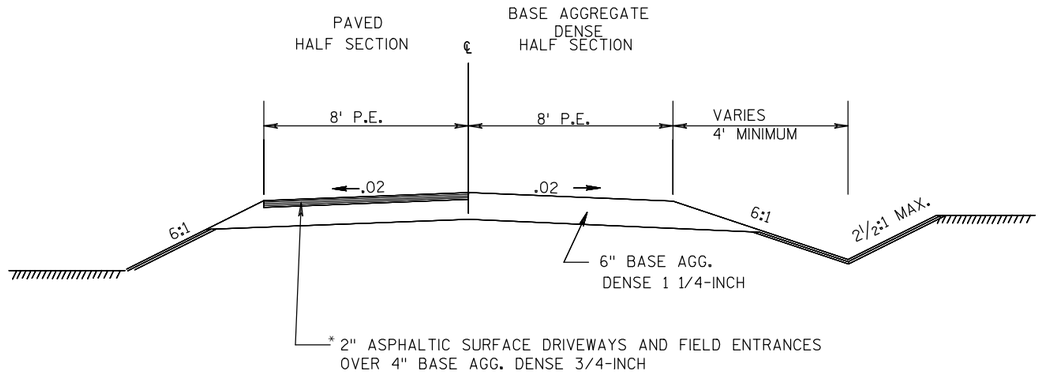
EROSION MAT TREATMENT AT CULVERTS



PIPE INSTALLATION CONSTRUCTION DETAIL
FOR D < 5'

RURAL DRIVEWAY DETAIL - ASPHALT



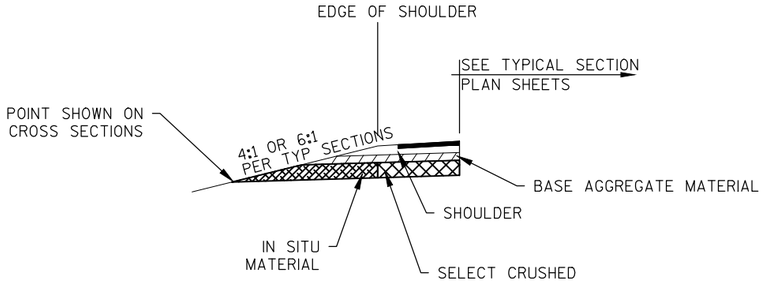


* OR MATCH EXISTING
ASPHALT DEPTH

NOTE:
DRIVEWAY PROFILES NOT EXPECTED TO EXCEED
10%. PLACE LOW POINT OF DRIVEWAY PROFILE
OVER DITCH FLOW LINE.

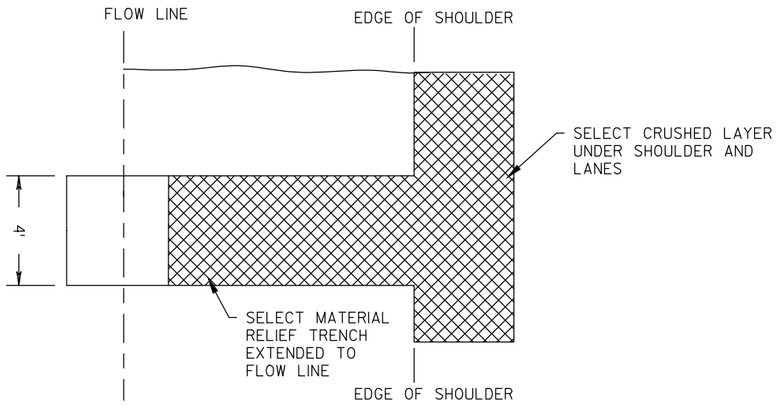
TYPICAL SECTION
FOR PRIVATE ENTRANCES

FILE NAME = N:\RDS\C3D\ 1100201\SHEETS\PLAN 110-02-72\021001 CD 72.DWG PLOT DATE = 8/19/2010 11:26 PM PLOT BY = ANDRTISCH FRIC P PLOT NAME = PLOT SCALE = 1" = 200' YREF



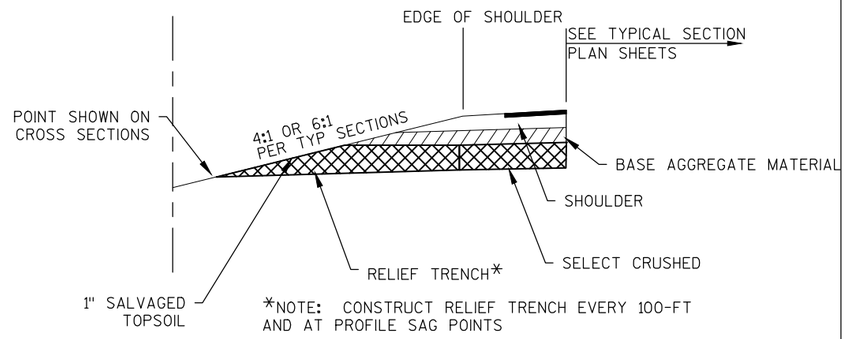
*NOTE: CONSTRUCT RELIEF TRENCH EVERY 100-FT AND AT PROFILE SAG POINTS

TYPICAL HALF SECTION WITH SELECT MATERIALS



PLAN VIEW

NOTE: CROSS SECTIONS DO NOT DIFFERENTIATE AREAS WHERE RELIEF TRENCH REQUIRED.

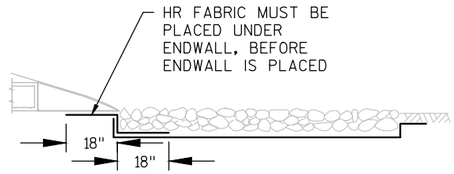


*NOTE: CONSTRUCT RELIEF TRENCH EVERY 100-FT AND AT PROFILE SAG POINTS

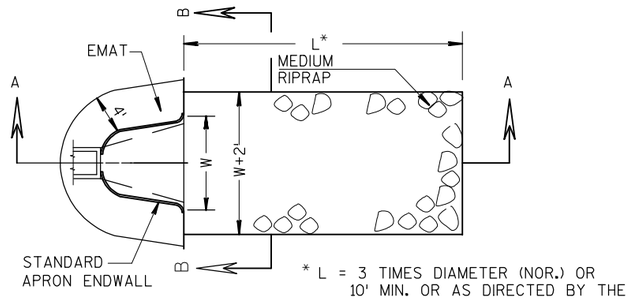
PROFILE VIEW

RELIEF TRENCH DETAIL

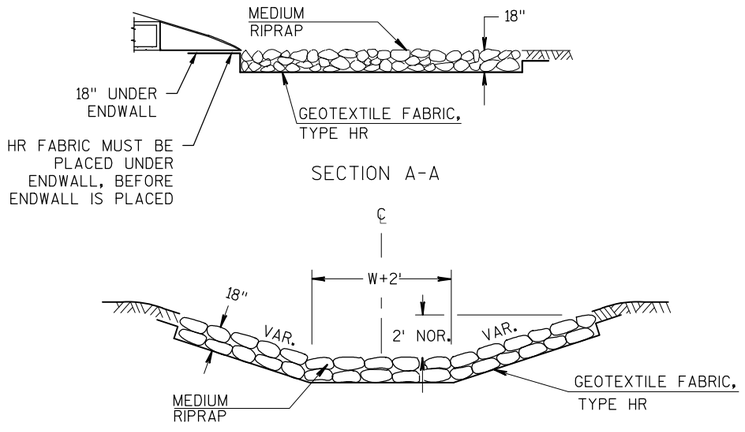
HR FABRIC MAY BE INSTALLED AS TWO SEPARATE PIECES, OVERLAPPING AS SHOWN OR AS APPROVED BY THE ENGINEER IN THE FIELD. EXTRA QUANTITY FOR OVERLAP IS INCIDENTAL TO THE CONTRACT.



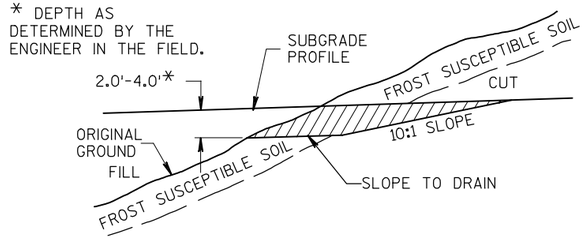
ALTERNATE HR FABRIC INSTALLATION



* L = 3 TIMES DIAMETER (NOR.) OR 10' MIN. OR AS DIRECTED BY THE ENGINEER



MEDIUM RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS



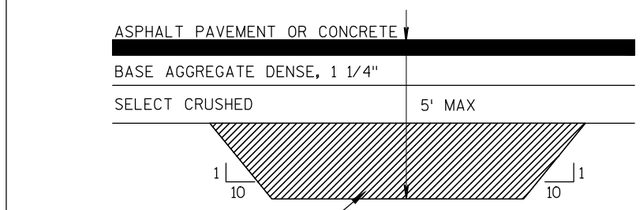
NOTE: EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER

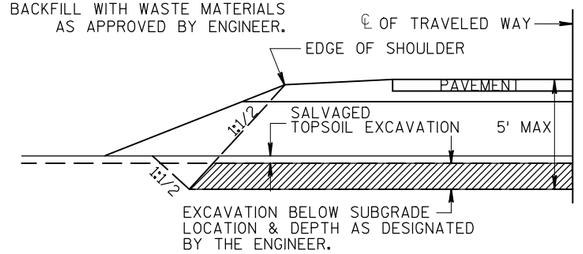
BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.

THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2'BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.

DETAIL FOR EXCAVATION BELOW SUBGRADE AT TRANSITION AREAS

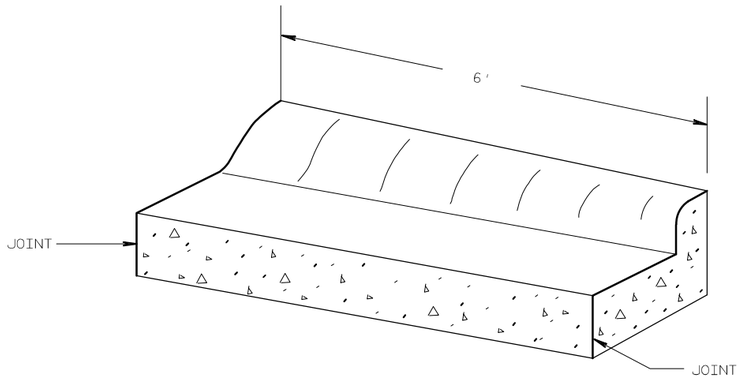


PROFILE VIEW



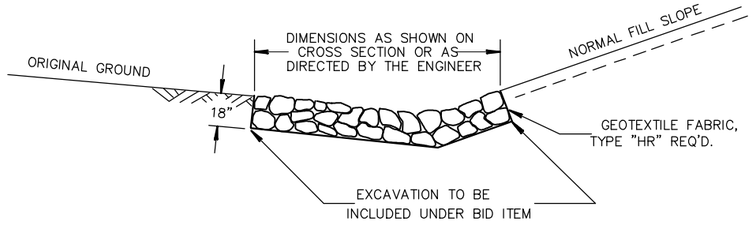
CROSS SECTION VIEW

DETAIL FOR EXCAVATION BELOW SUBGRADE

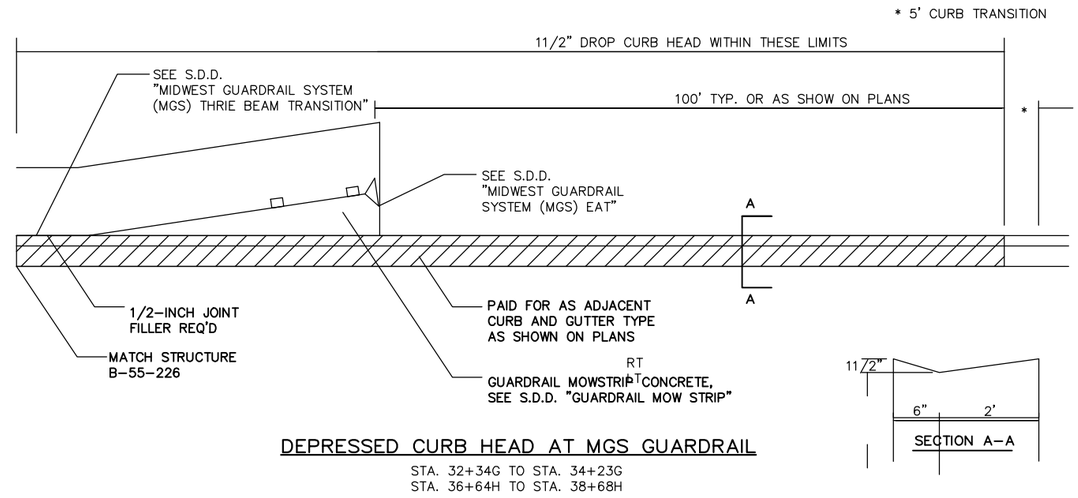


TRANSITION DETAIL

CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A TO CONCRETE CURB & GUTTER 30-INCH (TO BE MEASURED AND PAID FOR AS 4-INCH SLOPED 36-INCH TYPE A)

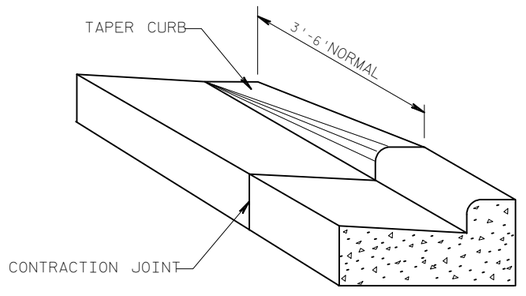


DETAIL FOR RIPRAP MEDIUM IN DITCHES



DEPRESSED CURB HEAD AT MGS GUARDRAIL

STA. 32+34G TO STA. 34+23G
STA. 36+64H TO STA. 38+68H



DETAIL OF CURB & GUTTER TERMINI

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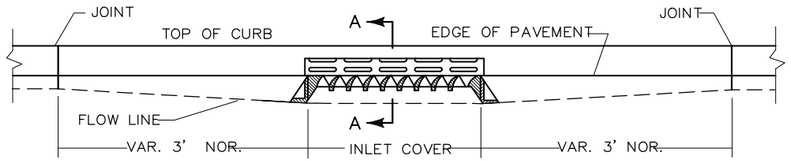
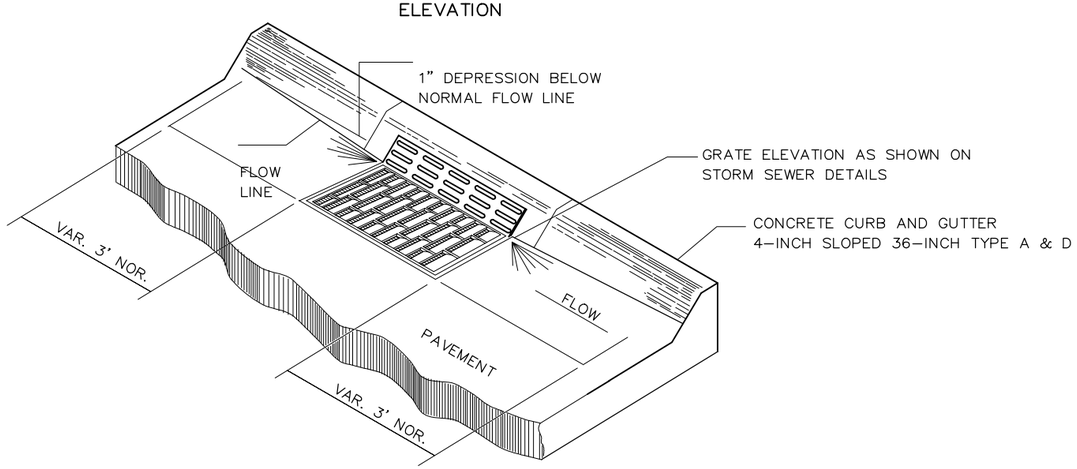
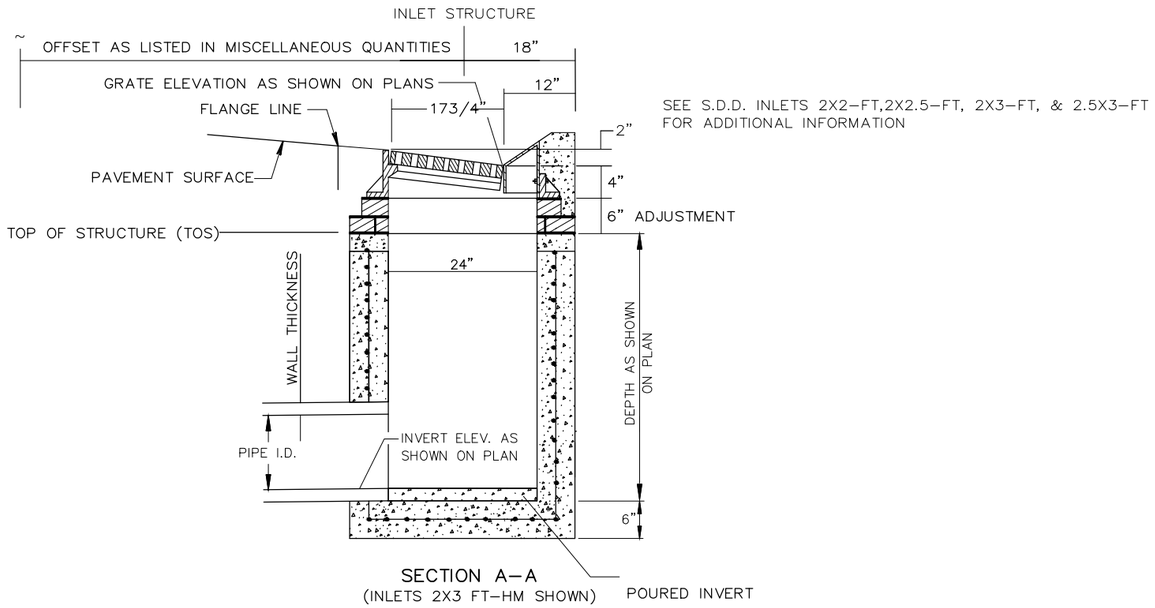


ELEVATION



DETAIL OF CURB AND GUTTER AT INLETS

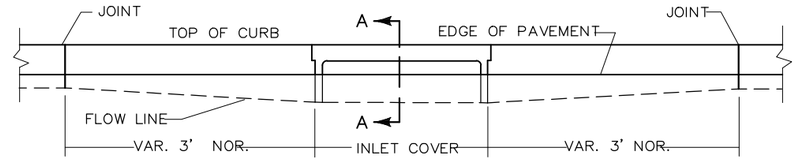
(INLETS 2X3 FT-HM SHOWN)



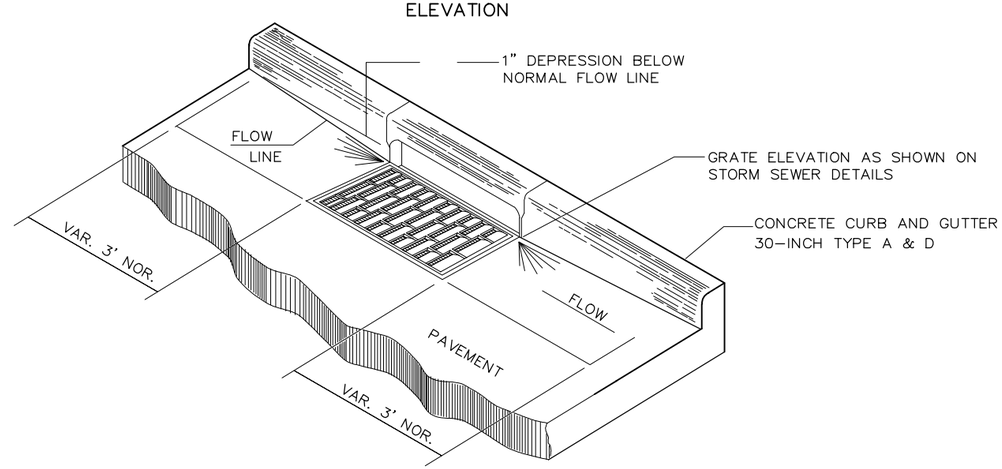
SECTION A-A
(INLETS 2X3 FT-HM SHOWN)

POURED INVERT

CONCRETE CURB AND GUTTER 36-INCH TYPE A & D AT INLETS

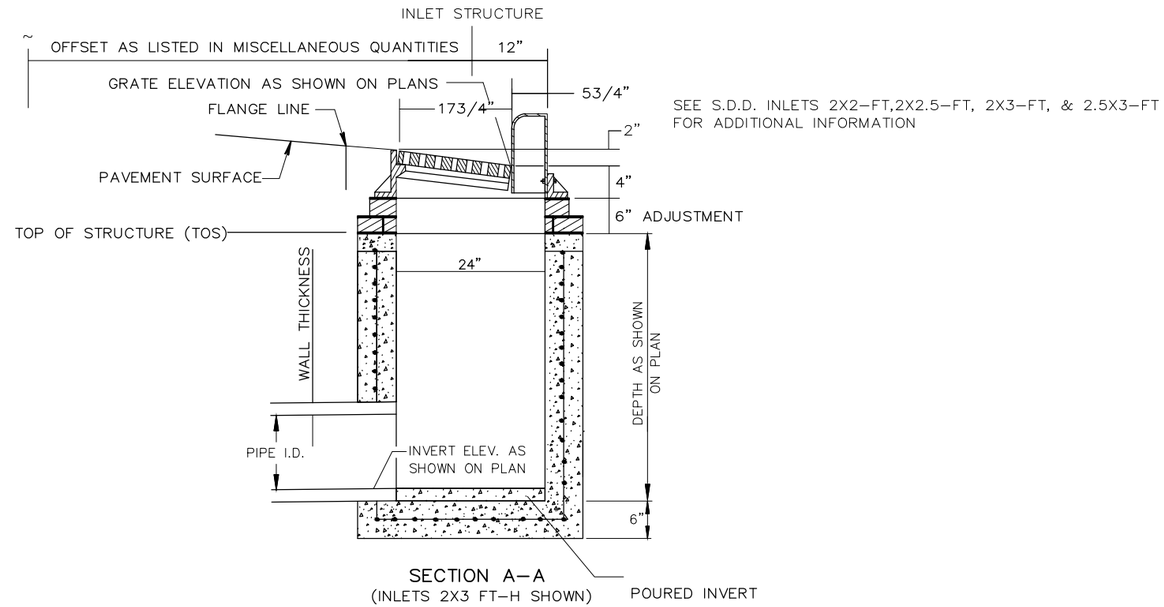


ELEVATION



DETAIL OF CURB AND GUTTER AT INLETS

(INLETS 2X3 FT-H SHOWN)



SECTION A-A
(INLETS 2X3 FT-H SHOWN)

POURED INVERT

CONCRETE CURB AND GUTTER 30-INCH TYPE A & D AT INLETS

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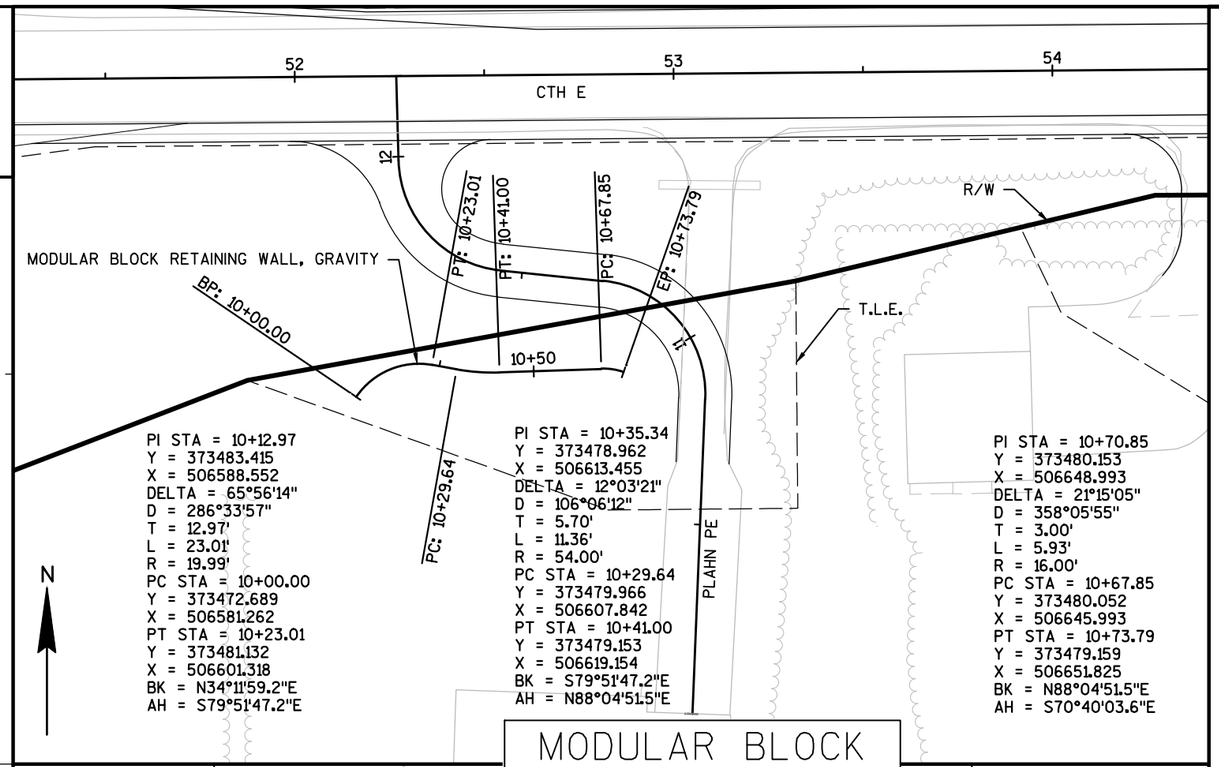
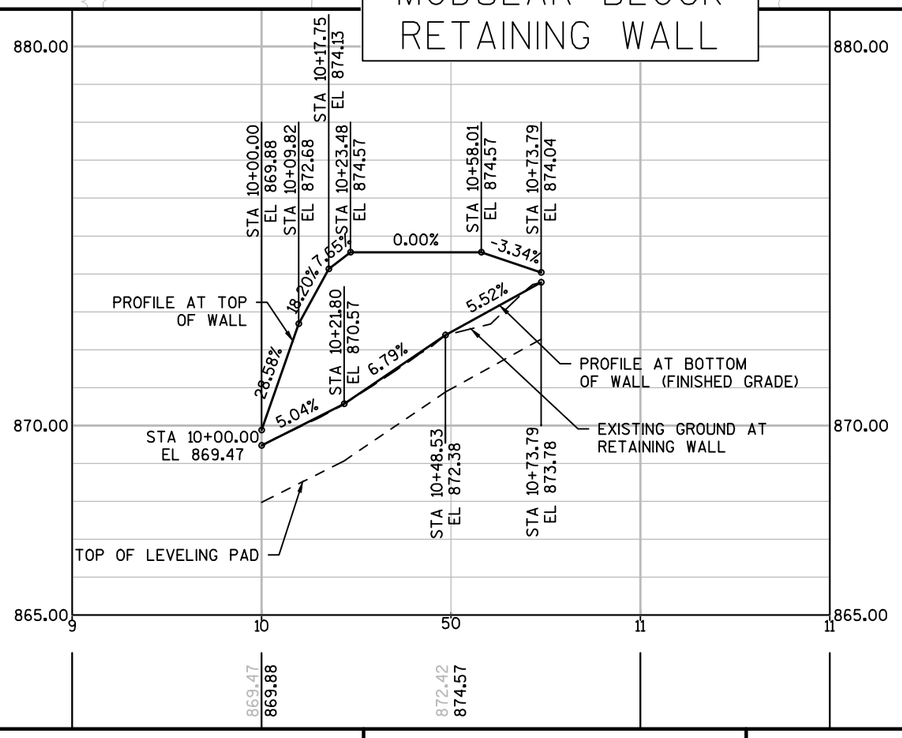
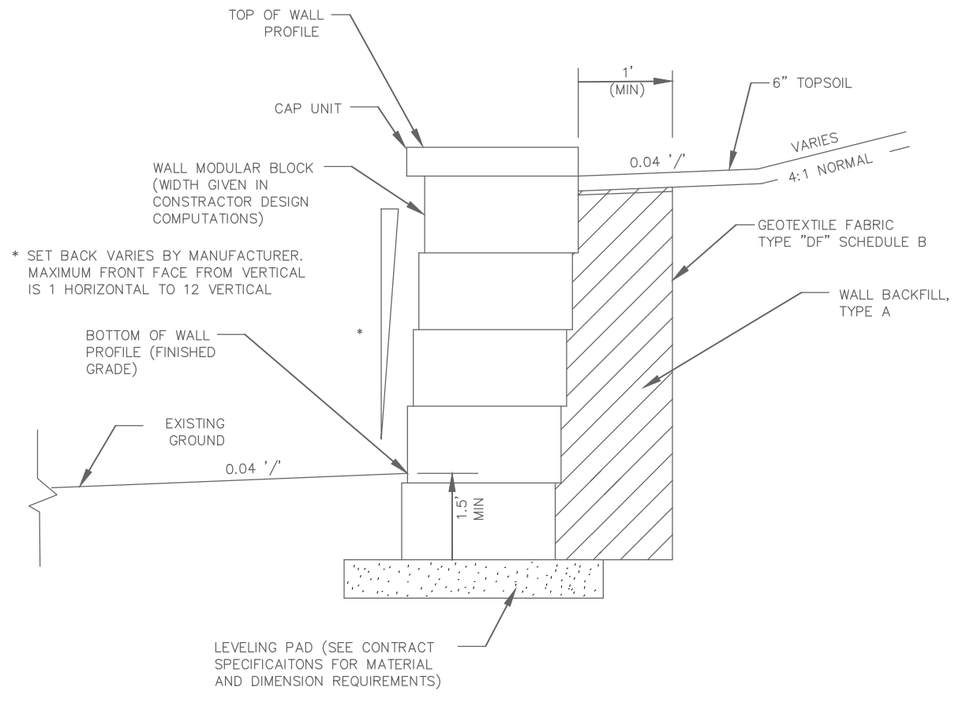


MODULAR BLOCK RETAINING WALL





GENERAL NOTES

WALL PROFILE SHOWS MINIMUM ELEVATION FOR THE TOP OF THE WALL. THE AREA CALCUALTED FOR PAYMENT IS FROM THE TOP OF THE LEVELING PAD AND A LINE INDICATING THE TOP OF THE WALL.

DRAWINGS SHALL NOT BE SCALED.

DESIGN DATA AND REQUIRED SAFETY FACTORS

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

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

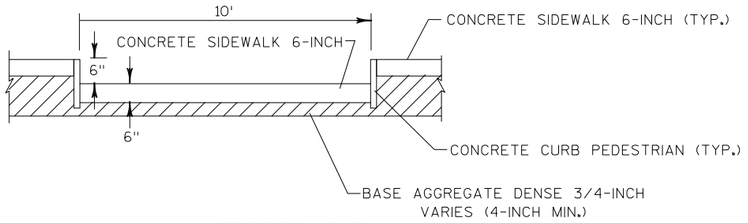
THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

THE FOLLOWING SAFETY FACTORS MUST BE MET BY THE WALL DESIGN
SLIDING (FS > 1.5)
OVERTURNING (FS > 2.0)
ULTIMATE BEARING CAPACITY (FS > 2)

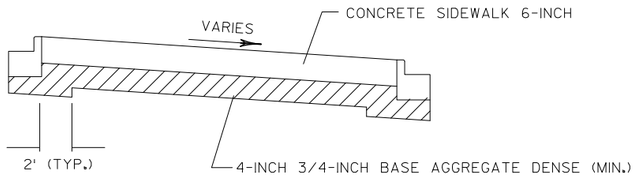
ALLOWABLE BEARING CAPACITY = 1500 psf

ESTIMATED SOIL PARAMETERS

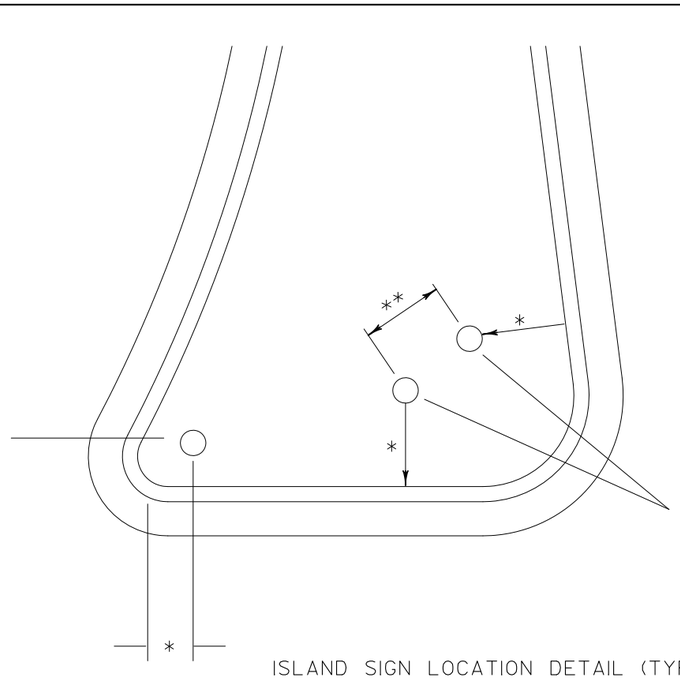
SOIL DESCRIPTION	UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)
SOIL ANTICPATED FOR BASE AND RETAINED SOILS	110	20	300



SECTION B-B



SECTION A-A



* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB

** SEE A4-4 SIGN PLATE FOR POST SPACING REQUIREMENTS.

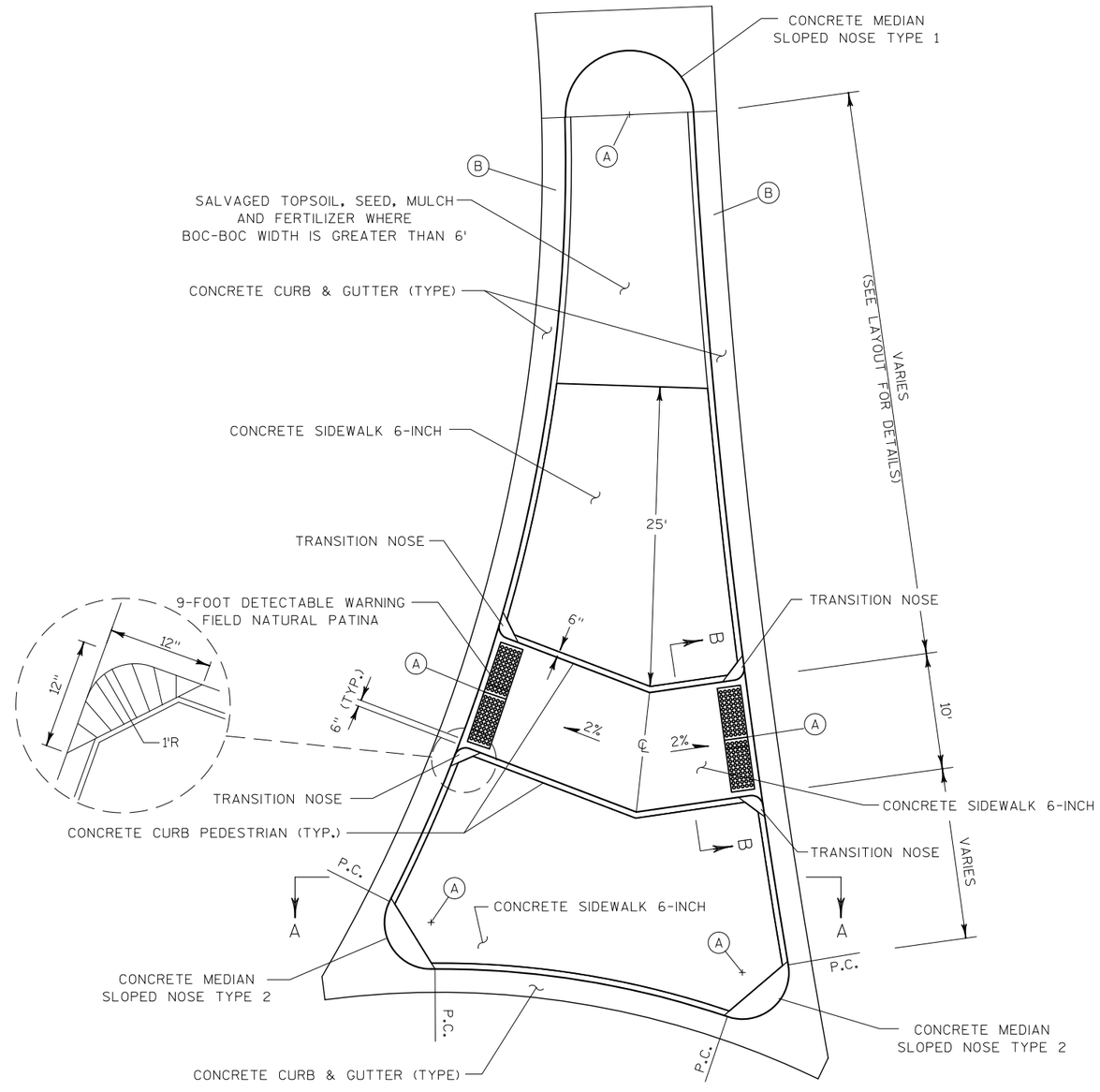
USE A 18-INCH MINIMUM INSIDE DIAMETER PVC PIPE BOX OUT IN CONCRETE FOR SIGN POST (TYP). THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND

ISLAND SIGN LOCATION DETAIL (TYP.)

NOTIFY THE REGIONAL TRAFFIC UNIT AT (715) 833-5366 A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.

(A) = LOCATION REFERRED TO ON PLAN DETAILS

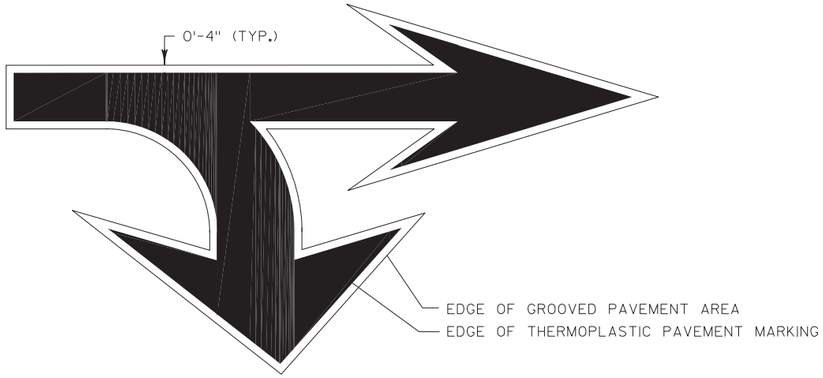
(B) = CURB ALIGNMENTS SHOWN ON ALIGNMENT DETAILS



SPLITTER ISLAND DETAIL

NO SCALE
(SEE PLAN DETAILS FOR LOCATIONS)

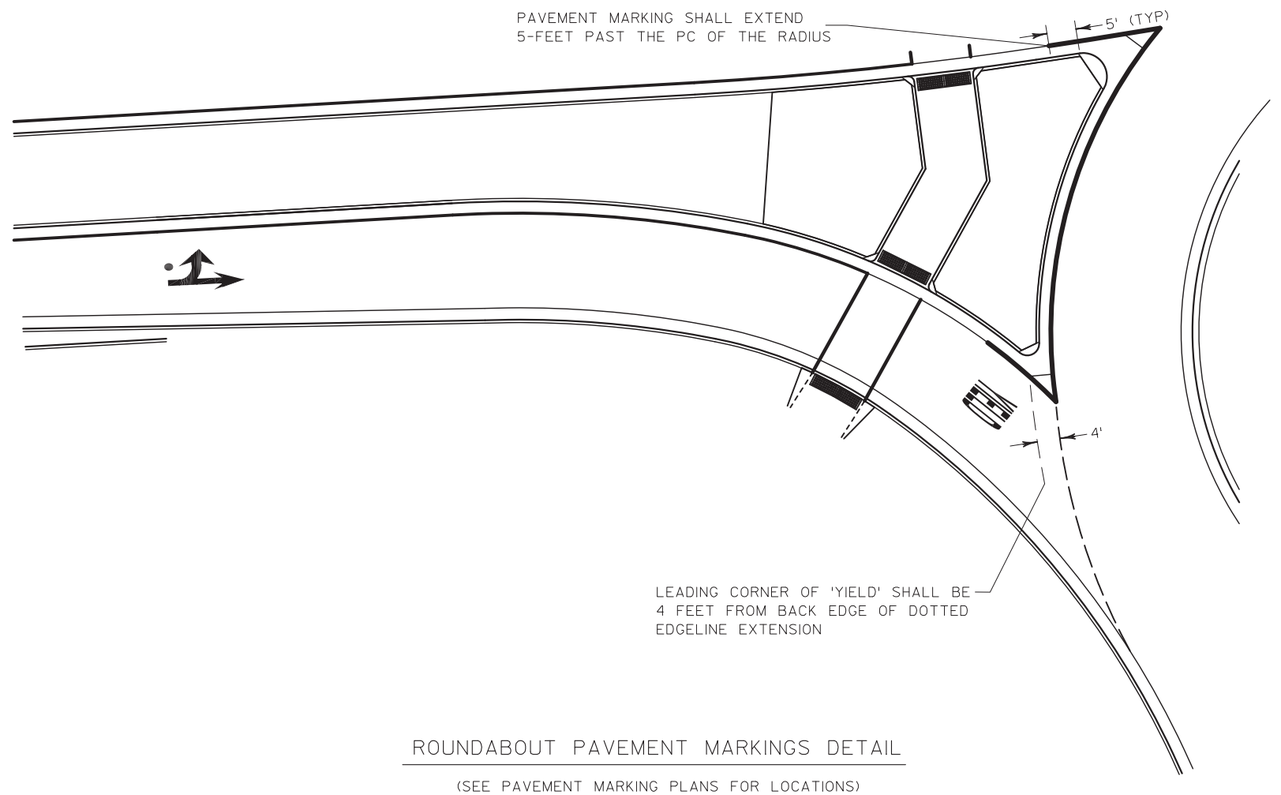
2



NOTE:

CONSTRUCTION DETAIL TYPICAL FOR ALL GROOVED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND WORDS. GROOVED AREA NOT TO EXCEED 4-INCHES OUTSIDE OR EDGE OF PAVEMENT MARKING.

GROOVED MARKING DETAIL

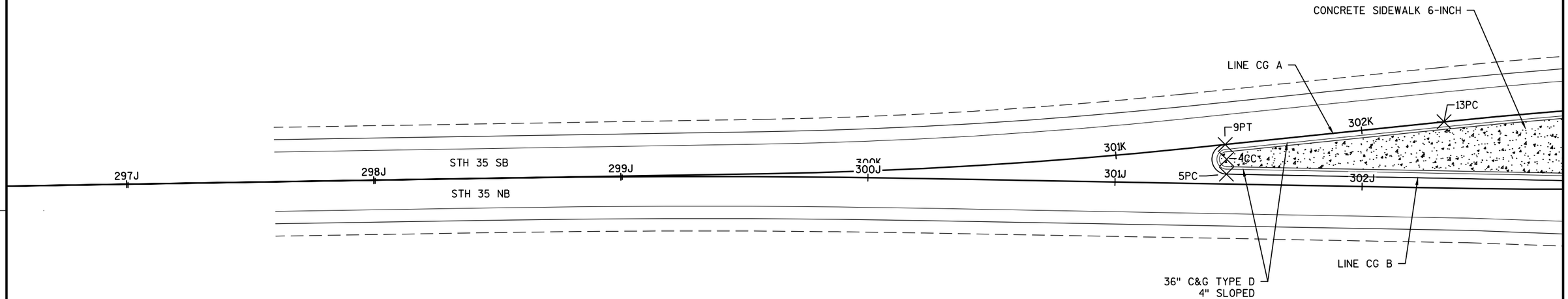


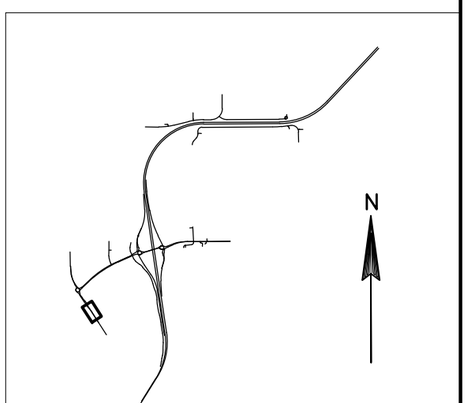
ROUNDABOUT PAVEMENT MARKINGS DETAIL

(SEE PAVEMENT MARKING PLANS FOR LOCATIONS)

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER

	LINE J		LINE K				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
4CC	301+45.03	10.00LT	301+44.46	6.000RT	371250.79	502715.18	6.0
5PC	301+45.03	4.00LT	301+43.73	11.955RT	371253.90	502720.31	
9PT	301+44.31	15.96LT	301+44.46	0.000	371247.07	502710.47	
13PC	302+32.68	26.72LT	302+33.49	0.000	371316.98	502655.34	



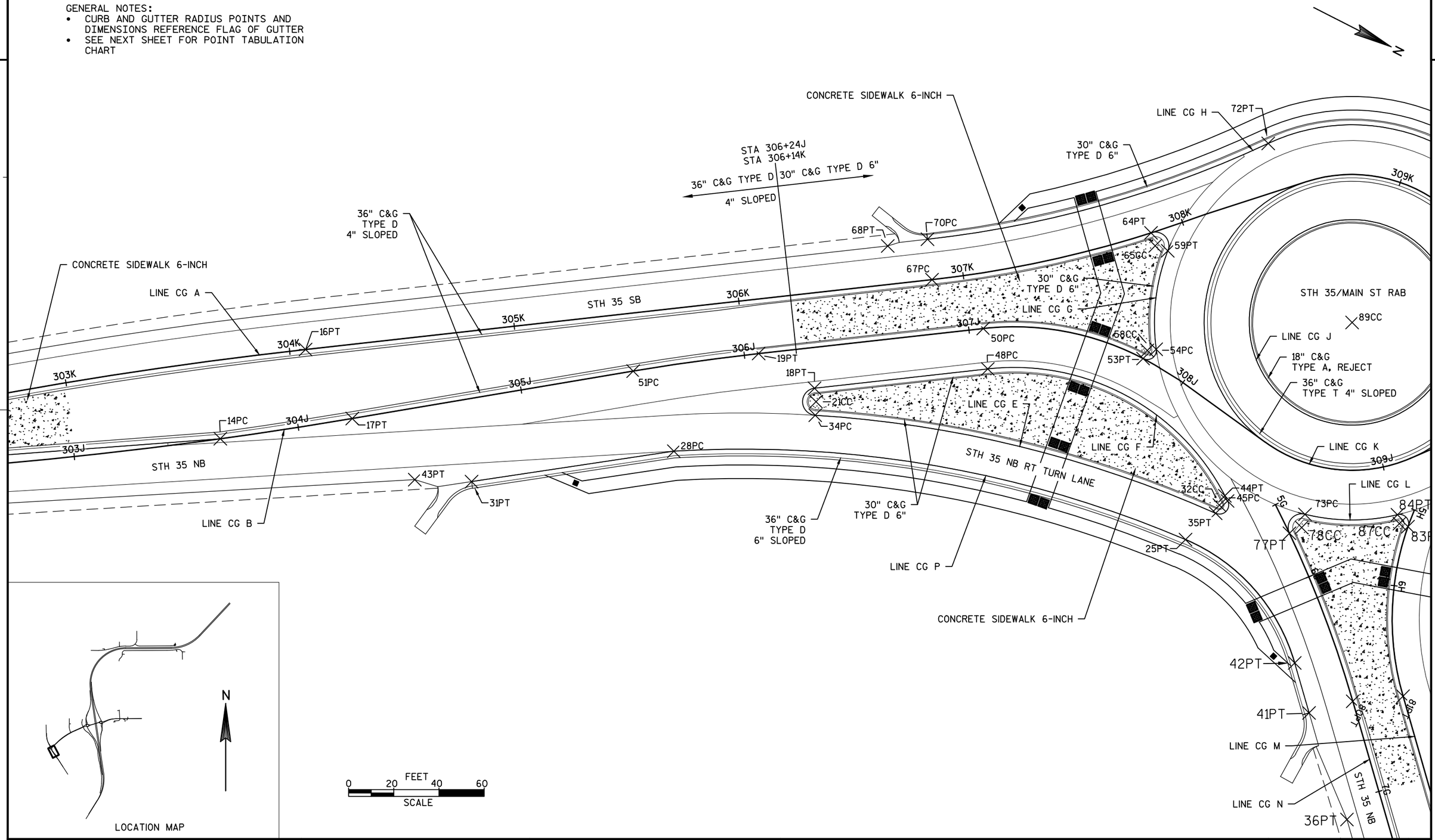


LOCATION MAP

0 20 40 60
FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35 NB/SB	SHEET 50	E

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER
- SEE NEXT SHEET FOR POINT TABULATION CHART



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35 NB/SB	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021110_ID_72.DWG PLOT DATE : 9/25/2014 2:18 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

	LINE J		LINE K				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
14PC	303+65.11	1.13LT	303+64.45	34.634RT	371442.01	502606.22	
16PT	304+08.66	33.49LT	304+07.09	0.000	371457.79	502553.90	
17PT	304+24.22	0.00	304+24.25	32.640RT	371490.04	502571.76	
18PT	306+29.24	18.00RT	306+29.04	42.000RT	371666.38	502467.20	
19PT	306+06.39	0.00	306+06.18	24.000RT	371637.39	502464.69	
21CC	306+29.24	24.00RT	306+29.04	48.000RT	371669.67	502472.21	6.0
25PT	308+41.69	55.60RT	307+64.14	134.514RT	371843.08	502452.61	
28PC	305+62.60	37.87RT	305+64.07	62.791RT	371623.48	502520.23	
31PT	304+71.62	36.32RT	304+73.61	66.246RT	371549.75	502572.77	
32CC	308+44.90	34.42RT	307+78.99	124.031RT	371849.57	502432.19	4.0
34PC	306+28.21	29.91RT	306+28.01	53.910RT	371672.05	502477.72	
35PT	308+45.45	38.34RT	307+76.88	127.031RT	371849.73	502436.19	
43PT	304+46.96	31.29RT	304+48.71	62.610RT	371526.94	502583.40	
44PT	308+44.42	29.69RT	307+81.80	120.806RT	371849.83	502427.45	
45PC	308+46.18	30.87RT	307+82.15	123.349RT	371851.92	502428.96	
48PC	307+06.36	18.00RT	307+04.59	42.374RT	371730.84	502424.88	
50PC	307+06.36	0.00	307+05.22	24.387RT	371720.96	502409.83	
51PC	305+50.30	0.00	305+50.13	25.572RT	371591.40	502496.77	
53PT	307+79.39	0.00	307+66.91	52.263RT	371790.04	502389.66	
54PC	307+82.49	6.36LT	307+73.00	49.936RT	371793.38	502383.38	

	LINE J		LINE K				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
58CC	307+79.39	4.00LT	307+69.40	49.359RT	371790.10	502385.66	4.0
59PT	307+70.42	47.81LT	307+89.88	9.798RT	371778.21	502342.15	
64PT	307+63.44	52.36LT	307+85.30	0.008RT	371768.02	502338.48	
65CC	307+66.10	47.69LT	307+85.31	6.000RT	371772.24	502342.74	6.0
67PC	306+86.22	24.00LT	306+86.02	0.000	371690.96	502400.82	
68PT	306+68.42	41.00LT	306+68.22	17.000LT	371666.75	502396.38	
70PC	306+86.22	42.00LT	306+86.02	18.000LT	371681.08	502385.77	
72PT	307+81.97	110.15LT	308+46.87	21.315LT	371796.34	502279.64	
89CC	309+12.61	65.50LT	309+23.98	65.500RT	371865.28	502333.52	

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
36PT	7+08.02	17.00RT	6+94.98	38.999RT	371962.89	502530.74	
41PT	6+58.00	20.00RT	6+46.11	42.059RT	371926.59	502496.24	
42PT	6+34.07	19.43RT	6+29.15	44.261RT	371910.90	502479.43	
73PC	5+74.33	9.80LT	5+80.48	45.111RT	371885.17	502418.73	
77PT	5+78.91	0.00	5+87.57	49.678RT	371882.85	502429.31	
78CC	5+78.91	6.00LT	5+84.87	44.985RT	371886.53	502424.57	6.0
80PT	6+58.46	0.00	6+46.03	22.054RT	371941.51	502482.92	
81PT	6+62.44	22.00LT	6+49.40	0.000LT	371960.31	502470.81	
83PC	5+96.82	49.08LT	5+73.10	LT	371928.28	502402.91	
84PT	5+90.74	46.87LT	5+69.90	6.205RT	371921.73	502400.37	
87CC	5+94.34	46.15LT	5+73.10	4.000RT	371924.32	502403.43	4.0

2

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER
- SEE NEXT SHEET FOR POINT TABULATION CHART

N

LINE CG H
LINE CG J
LINE CG K
131PT
309K
CONCRETE SIDEWALK 6-INCH
132PC
30" C&G TYPE D 6"
LINE CG T
LINE CG H
30" C&G TYPE D 6"
36" C&G TYPE D 6" SLOPED STA 312+64.80K
LINE CG H
168PT
166PC
170PT
172PC
LINE CG X
36" C&G TYPE D 6" SLOPED
134PT
141PC
146PT
18" C&G TYPE A, REJECT
125PI
127PT
310K
138PT
311K
142PT
312K
149PT
313K
MAIN ST
174PT
176PI
177PT
130CC
123CC
LINE CG R
118PI
137PI
139PI
312J
152CC
151PT
313J
314J
314K
315J
310J
122PT
MAIN ST
156PT
LINE CG V
162PT
165PI
160PT
164PI
LINE CG W
36" C&G TYPE D 6" SLOPED STA 312+41.01J
158PT
36" C&G TYPE D 6" SLOPED
LINE CG Q
116PT
30" C&G TYPE D 6"
84PT
H51
83PC
36" C&G TYPE T 4" SLOPED
113PT
H9
LINE CG Q
BEGINNING/END OF LINE CG I/Q
111PT
LINE CG M
LINE CG I
STH 35 SB
30" C&G TYPE D 6"

0 20 40 60 FEET
SCALE

LOCATION MAP

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: MAIN ST	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021110_ID_72.DWG
PLOT DATE : 9/25/2014 2:18 PM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME :
PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

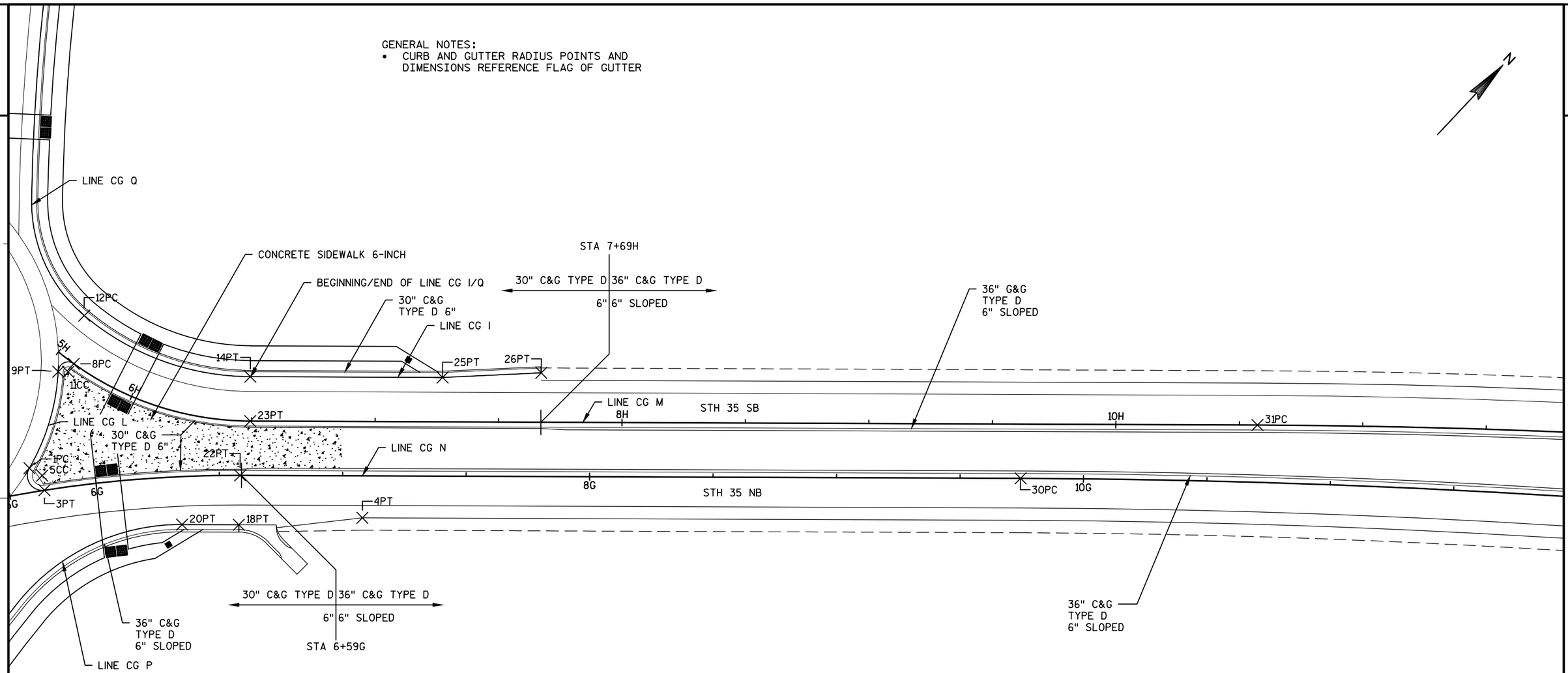
2

	LINE J		LINE K				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
116PT	309+70.24	17.00RT	310+02.94	64.083RT	371965.00	502344.88	
118PI	309+79.25	14.00LT	309+94.93	34.024RT	371950.97	502315.81	
122PT	309+84.40	5.02LT	310+02.04	37.990RT	371960.82	502319.09	
123CC	309+84.39	11.02LT	309+99.41	33.147RT	371956.85	502314.59	6.0
125PI	309+89.14	42.21LT	309+85.47	6.223RT	371939.96	502287.92	
127PT	309+93.84	46.11LT	309+86.28	0.000	371941.12	502281.75	
130CC	309+92.92	41.54LT	309+88.64	4.000RT	371943.38	502285.83	4.0
131PT	309+79.64	100.72LT	309+32.88	21.547LT	371893.65	502250.74	
132PC	309+91.62	77.86LT	309+59.09	18.868LT	371918.57	502259.28	
134PT	310+50.12	38.36LT	310+49.42	18.000LT	371991.59	502250.69	
137PI	310+18.03	5.06LT	310+25.21	22.019RT	371986.56	502297.17	
138PT	310+48.56	20.44LT	310+49.42	0.000	372001.21	502265.90	
139PI	310+42.92	0.00	310+46.29	20.937RT	372009.21	502285.55	
141PC	311+18.08	34.56LT	311+20.03	18.000LT	372051.25	502212.92	
142PT	311+17.75	16.57LT	311+20.03	0.000	372060.88	502228.12	
146PT	311+71.72	33.16LT	311+74.33	18.000LT	372099.18	502184.86	
149PT	312+45.00	11.99LT	312+49.31	0.000	372175.31	502168.30	
151PT	312+44.69	0.00	312+49.62	11.992RT	372180.26	502179.23	
152CC	312+44.69	6.00LT	312+49.31	6.000RT	372177.64	502173.83	6.0
156PT	312+51.19	17.00RT	312+57.17	28.619RT	372193.43	502191.76	

	LINE J		LINE K				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
158PT	312+70.39	44.88RT	312+78.51	55.355RT	372222.02	502209.23	
160PT	313+01.16	30.09RT	313+08.87	38.632RT	372243.28	502183.90	
162PT	313+20.61	17.00RT	313+27.61	24.224RT	372256.00	502164.68	
164PI	313+30.84	22.00RT	313+38.34	28.459RT	372267.15	502165.75	
165PI	313+30.79	17.00RT	313+37.89	23.478RT	372265.33	502161.09	
166PC	312+71.30	32.56LT	312+74.70	22.000LT	372190.98	502138.27	
168PT	313+26.83	73.47LT	313+27.65	66.476LT	372229.33	502077.99	
170PT	313+50.40	92.35LT	313+50.49	86.994LT	372246.93	502050.84	
172PC	313+45.80	78.37LT	313+46.58	72.730LT	372249.59	502075.24	
174PT	313+78.78	25.56LT	313+83.28	22.044LT	372299.06	502109.70	
176PI	313+88.42	24.04LT	313+93.10	21.037LT	372308.64	502107.31	
177PT	314+60.16	15.99LT	314+65.72	15.506LT	372379.42	502092.09	

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
81PT	6+62.44	22.00LT	6+49.40	0.000LT	371960.31	502470.81	
83PC	5+96.82	49.08LT	5+73.10	LT	371928.28	502402.91	
84PT	5+90.74	46.87LT	5+69.90	6.205RT	371921.73	502400.37	
111PT	6+62.44	40.00LT	6+49.40	18.000LT	371973.47	502458.53	
113PT	309+18.62	33.84RT	309+90.93	110.707RT	371945.39	502392.58	

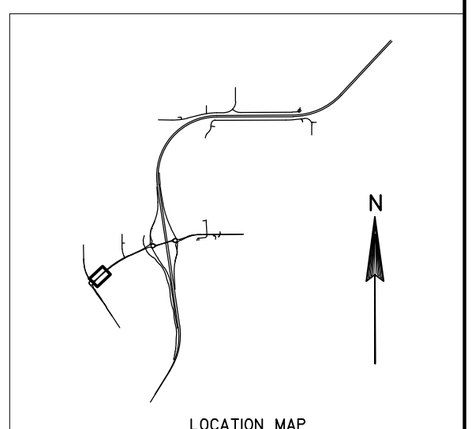
GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER



	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1PC	5+74.33	9.80 LT	5+80.48	45.111RT	371885.17	502418.73	
3PT	5+78.91	0.00	5+87.57	49.678RT	371882.85	502429.31	
4PT	7+08.02	17.00 RT	6+94.98	38.999RT	371962.89	502530.74	
5CC	5+78.91	6.00 LT	5+84.87	44.985RT	371886.53	502424.57	6.00'
8PC	5+96.81	49.09 LT	5+73.09	0.000	371928.28	502402.89	
9PT	5+90.71	46.70 LT	5+69.99	6.344RT	371921.61	502400.48	
11CC	5+94.34	46.15 LT	5+73.10	4.000RT	371924.32	502403.43	4.00'
12PC	6+02.53	68.02 LT	0+00.00	0.000	371945.39	502392.58	
14PT	6+62.44	40.00 LT	6+49.40	18.000LT	371973.47	502458.53	

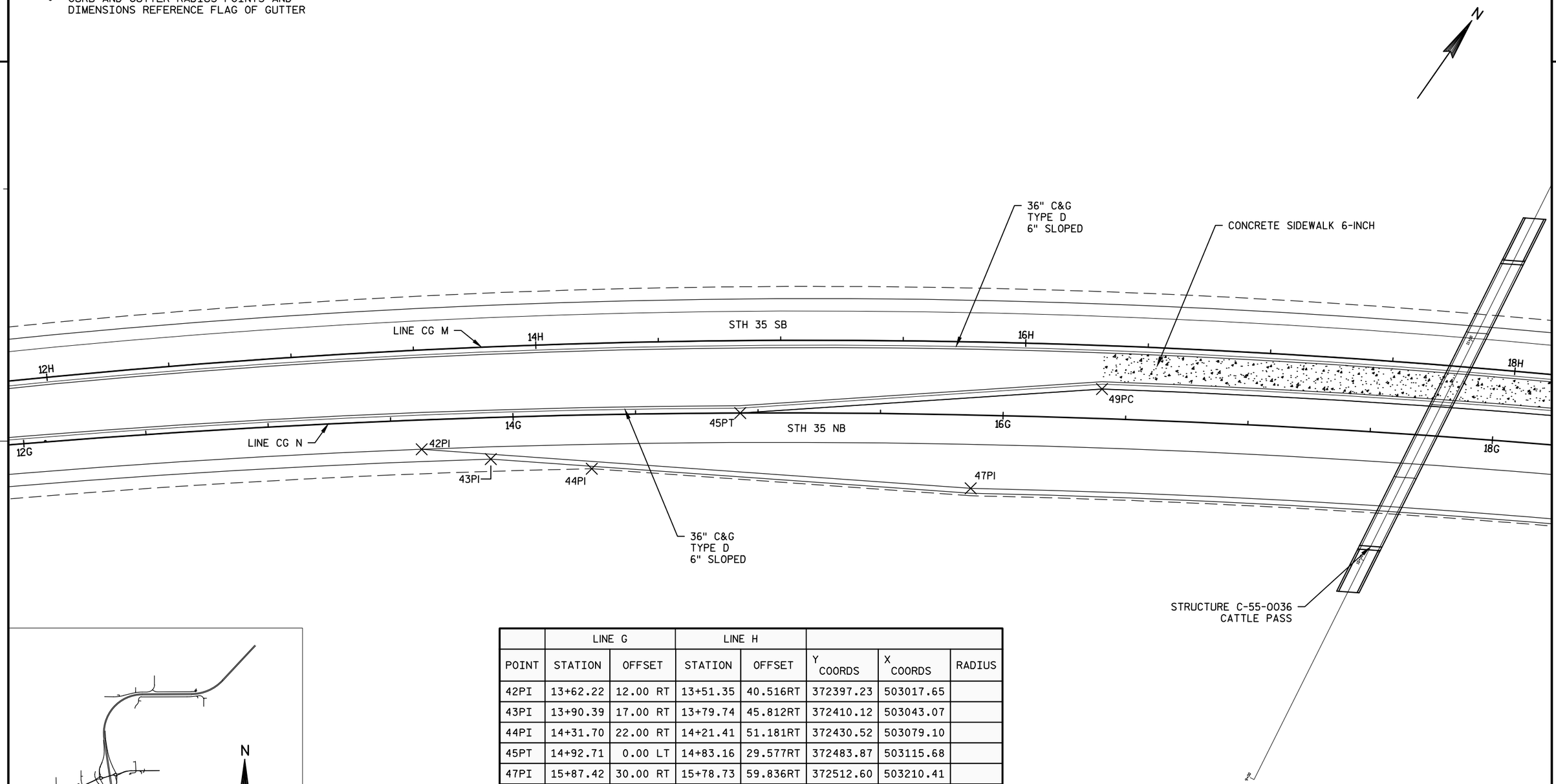
	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
18PT	6+58.00	20.00 RT	6+46.11	42.059RT	371926.59	502496.24	
20PT	6+34.07	19.43 RT	6+29.15	44.261RT	371910.90	502479.43	
22PT	6+58.46	0.00	6+46.03	22.054RT	371941.51	502482.92	
23PT	6+62.44	22.00 LT	6+49.40	0.000	371960.31	502470.81	
25PT	7+40.30	40.00 LT	7+27.26	18.004LT	372026.59	502515.46	
26PT	7+80.25	42.00 LT	7+67.21	20.005LT	372055.31	502543.30	
30PC	9+74.58	0.00	9+61.54	21.995RT	372157.18	502714.03	
31PC	10+69.86	23.19 LT	10+57.39	0.001LT	372238.66	502769.10	

0 20 FEET 40 60
SCALE

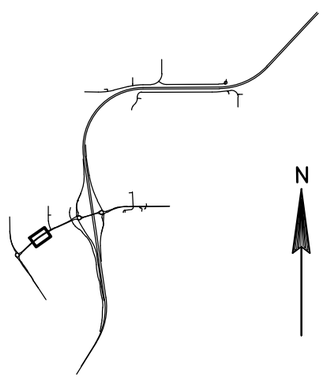


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35 NB/SB	SHEET 55	E

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER



	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
42PI	13+62.22	12.00 RT	13+51.35	40.516RT	372397.23	503017.65	
43PI	13+90.39	17.00 RT	13+79.74	45.812RT	372410.12	503043.07	
44PI	14+31.70	22.00 RT	14+21.41	51.181RT	372430.52	503079.10	
45PT	14+92.71	0.00 LT	14+83.16	29.577RT	372483.87	503115.68	
47PI	15+87.42	30.00 RT	15+78.73	59.836RT	372512.60	503210.41	
49PC	16+40.01	12.00 LT	16+31.79	17.794RT	372576.55	503231.08	



LOCATION MAP

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35 NB/SB	SHEET 56	E

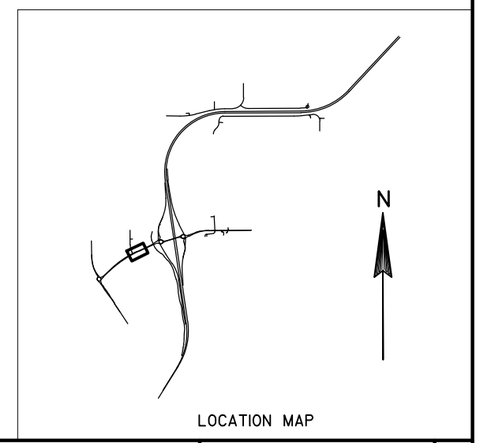
GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER
- SEE NEXT SHEET FOR POINT TABULATION CHART

N

SCHOOL RD

113PC
114PC
90PC
91PC
62PT
63PI
36" C&G TYPE D 6"
59PI
60PI
61PC
58PI
57PI
LINE CG O
LINE CG S
92PT
106PT
SHARED USE PATH
36" C&G TYPE D 6" SLOPED
110PT
LINE CG M
36" C&G TYPE D 6" SLOPED
67PT
70CC
69PT
LINE CG N
10N
20H
STH 35 SB
22H
24H
94PC
97CC
96PT
105PT
LINE CG U
109PT
20G
104PT
22G
107PT
95PT
103PI
102PI
STH 35 NB
24G
85PT
112PI
CONCRETE SIDEWALK 6-INCH
LINE CG Y
74PI
76PC
LINE CG C
LINE CG D
86PT
99PI
100PI
101PI
36" C&G TYPE D 6"
84PC
36" C&G TYPE D 6"
78PT

0 20 40 60 FEET
SCALE



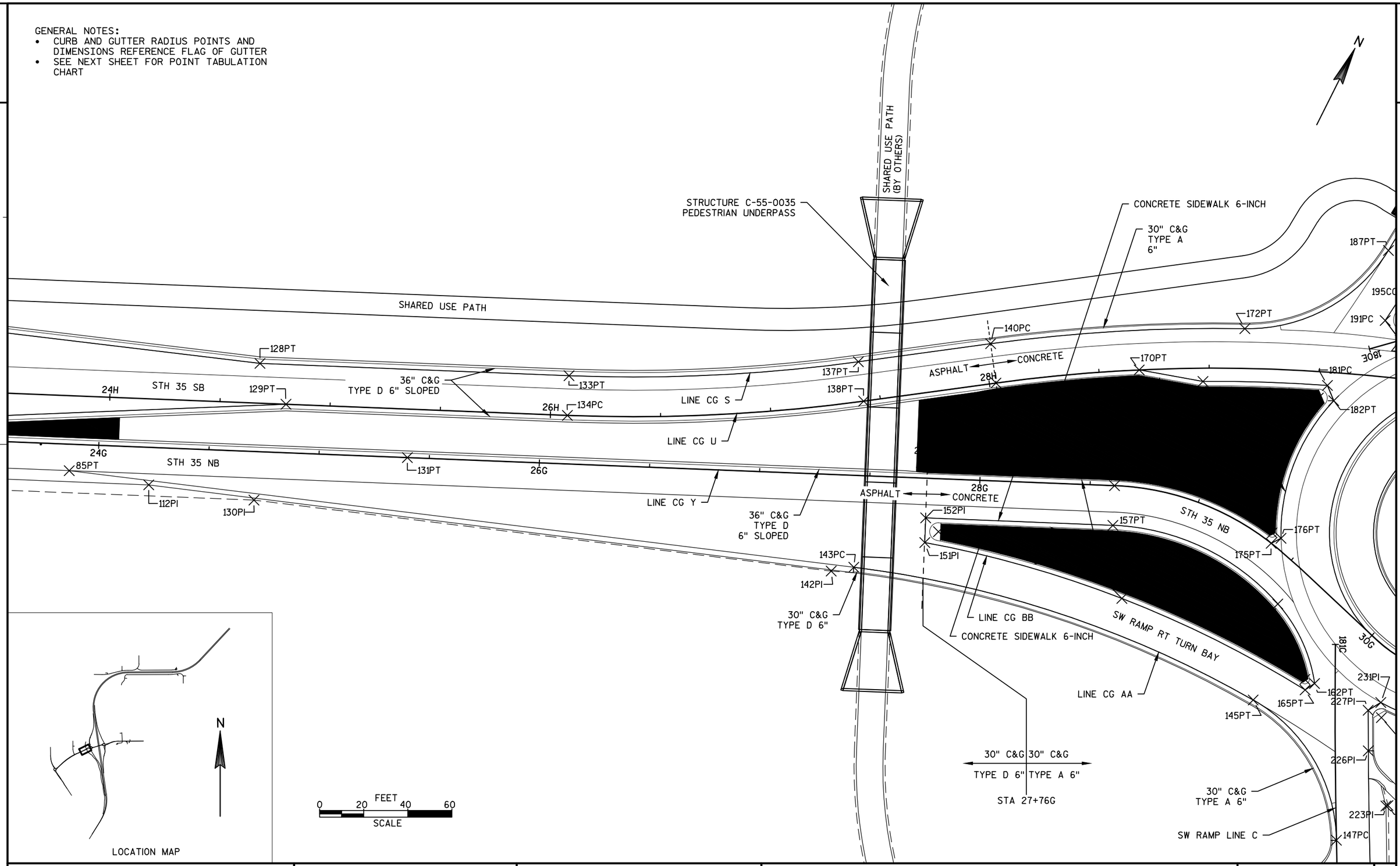
LOCATION MAP

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35 NB/SB AT SCHOOL RD	SHEET 57	E

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
57PI	18+29.43	45.55 LT	18+22.45	17.000LT	372705.07	503376.07	
58PI	18+39.40	50.43 LT	18+32.44	22.000LT	372714.37	503382.37	
59PI	18+96.88	61.58 LT	18+90.11	33.885LT	372752.84	503427.58	
60PI	19+02.28	59.61 LT	18+95.57	32.000LT	372753.80	503433.34	
61PC	19+02.24	56.61 LT	18+95.57	29.000LT	372751.15	503434.75	
62PT	19+38.88	95.79 LT	19+31.80	68.741LT	372803.49	503448.64	
63PI	19+41.80	95.77 LT	19+34.74	68.763LT	372804.90	503451.29	
67PT	19+35.34	27.10 LT	19+29.33	RT	372741.43	503478.30	
69PT	19+35.08	12.04 LT	19+29.32	15.060RT	372728.08	503485.28	
70CC	19+35.21	19.57 LT	19+29.33	7.530RT	372734.75	503481.79	
74PI	18+84.17	30.11 RT	18+78.59	57.965RT	372666.61	503461.24	
76PC	18+94.25	30.09 RT	18+88.77	57.810RT	372671.51	503469.96	
78PT	19+54.90	88.68 RT	19+51.07	115.437RT	372648.84	503550.47	
84PC	19+84.95	71.81 RT	19+81.17	98.027RT	372677.56	503568.50	
85PT	23+87.07	12.00 RT	23+82.92	34.014RT	372902.10	503903.32	
86PT	20+25.50	30.02 RT	20+21.28	55.453RT	372733.11	503584.68	
90PC	19+81.37	111.49 LT	19+74.18	85.173LT	372837.95	503479.69	
91PC	19+84.28	111.60 LT	19+77.10	85.339LT	372839.45	503482.29	
92PT	20+38.38	54.19 LT	20+32.50	29.000LT	372813.94	503557.80	
94PC	20+35.77	13.23 LT	20+30.73	12.000RT	372776.27	503574.07	

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
95PT	21+67.56	12.00 RT	21+63.58	34.355RT	372811.52	503703.55	
96PT	20+35.50	0.02 LT	20+30.73	25.217RT	372764.38	503579.84	
97CC	20+35.63	6.62 LT	20+30.73	18.617RT	372770.31	503576.96	
99PI	20+69.22	30.00 RT	20+65.39	54.492RT	372752.73	503623.35	
100PI	20+69.24	33.00 RT	20+65.48	57.491RT	372750.06	503624.71	
101PI	20+79.71	33.95 RT	20+76.06	58.205RT	372753.83	503634.42	
102PI	21+36.52	22.00 RT	21+32.86	44.896RT	372789.27	503679.89	
103PI	21+45.29	17.00 RT	21+41.48	39.718RT	372797.54	503685.61	
104PT	21+33.78	0.00 LT	21+29.64	22.961RT	372807.94	503667.93	
105PT	21+23.55	11.21 LT	21+19.13	12.000RT	372813.60	503653.84	
106PT	21+24.56	52.19 LT	21+19.13	29.000LT	372850.97	503636.97	
107PT	22+19.12	0.00	22+14.98	22.008RT	372843.93	503745.31	
109PT	23+34.07	10.01 LT	23+29.93	12.000RT	372900.36	503845.96	
110PT	23+34.07	51.01 LT	23+29.93	29.000LT	372937.72	503829.09	
112PI	24+23.37	17.00 RT	24+19.22	39.015RT	372912.48	503938.46	

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER
- SEE NEXT SHEET FOR POINT TABULATION CHART



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35 NB/SB	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021111_ID_72.DWG PLOT DATE : 9/25/2014 3:04 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
85PT	23+87.07	12.00 RT	23+82.92	34.014RT	372902.10	503903.32	
112PI	24+23.37	17.00 RT	24+19.22	39.015RT	372912.48	503938.46	
128PT	24+71.57	40.02 LT	24+67.43	18.000LT	372984.29	503958.93	
129PT	24+84.07	22.02 LT	24+79.93	0.000	372973.03	503977.73	
130PI	24+71.29	22.00 RT	24+67.15	44.017RT	372927.65	503984.20	
131PT	25+40.10	0.00	25+35.96	22.019RT	372976.02	504037.86	
133PT	26+11.87	40.02 LT	26+07.73	18.000LT	373042.03	504086.80	
134PC	26+11.87	22.02 LT	26+07.73	0.000	373025.62	504094.21	
137PT	27+42.75	51.53 LT	27+42.44	18.000LT	373106.37	504201.34	
138PT	27+45.89	33.81 LT	27+42.44	0.000	373091.51	504211.50	
140PC	28+02.39	62.10 LT	28+03.01	18.000LT	373140.55	504251.35	
141PC	28+05.53	44.38 LT	28+03.01	0.000	373125.69	504261.51	
142PI	27+34.23	43.82 RT	27+19.62	74.775RT	373015.96	504232.82	
143PC	27+44.42	41.66 RT	27+29.11	74.178RT	373022.13	504241.22	
151PI	27+76.11	29.17 RT	27+61.20	67.283RT	373046.55	504264.95	
152PI	27+76.11	18.00 RT	27+63.15	56.288RT	373056.73	504260.36	
155CC	27+82.11	24.00 RT	27+68.01	63.243RT	373053.73	504268.30	

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
156PT	28+61.10	0.00	28+53.59	51.774RT	373108.11	504330.41	
157PT	28+61.10	18.00 RT	28+51.48	69.670RT	373091.70	504337.82	
159PT	29+59.10	18.81 RT	29+36.04	106.295RT	373093.24	504420.66	
162PT	181+24.14	9.36 LT	29+58.69	141.251RT	373068.45	504451.67	
164PT	28+70.19	50.78 RT	28+53.46	103.029RT	373063.84	504356.25	
165PT	181+21.22	13.60 LT	29+53.69	144.468RT	373063.94	504449.17	
168CC	181+25.97	13.73 LT	29+53.14	139.716RT	373068.16	504446.93	
170PT	28+67.46	53.12 LT	28+68.25	0.004RT	373160.05	504316.94	
171PC	28+88.03	53.02 LT	28+97.17	6.000RT	373168.34	504345.17	
172PT	28+95.39	81.34 LT	29+15.86	18.000LT	373198.19	504351.45	
175PT	29+38.03	0.00	29+31.23	78.903RT	373116.52	504405.63	
176PT	29+40.11	4.54 LT	29+36.13	76.483RT	373120.52	504408.65	
179CC	29+35.57	4.00 LT	29+31.53	74.195RT	373120.92	504403.94	
181PC	29+22.93	73.58 LT	29+54.13	6.000RT	373191.98	504396.46	
182PT	29+26.80	69.22 LT	29+57.56	12.716RT	373187.06	504402.15	
185CC	29+22.56	66.55 LT	29+50.37	12.000RT	373185.02	504395.34	
187PT	180+85.59	40.46 LT	29+76.14	57.271LT	373259.04	504393.83	

	LINE E				
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
191PC	180+73.01	10.478 LT	373230.00	504406.72	

	LINE C				
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
145PT	181+16.65	37.159 LT	373049.31	504430.14	
147PC	180+53.08	0.000	373009.31	504492.36	
223PI	180+68.27	22.714 RT	373033.24	504505.49	
224PI	180+68.51	23.686 RT	373033.90	504506.24	
226PI	180+93.51	15.000 RT	373052.03	504487.17	
227PI	181+12.00	15.000 RT	373068.45	504478.88	
230CC	181+08.63	21.000 RT	373068.15	504485.74	
231PI	181+15.59	20.762 RT	373074.22	504482.44	

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER
- SEE NEXT SHEET FOR POINT TABULATION CHART

STH 35/NW RAMP PAVEMENT CONSTRUCTION ENDS AT STA 186+35E

CROSSWALK THROUGH SPLITTER ISLAND, SEE CONSTRUCTION DETAILS - SPLITTER ISLAND

LINE CG FF

LINE CG GG

30" C&G TYPE A 6"

209PI

211PI

208PI

213PI

204PI

207CC

214PT

199PT

203PI

182E

STH 35/NW RAMP

LINE CG S ENDS AT STA 184+75E

CONCRETE SIDEWALK 6-INCH 4" BASE AGG - 3/4" DENSE

NW RAMP RT TURN BAY

198PT

190PT

LINE CG S

LINE CG EE

30" C&G TYPE A 6"

36" C&G TYPE A 4" SLOPED

195CC

192PC

187PT

191PC

180E

SHARED USE PATH

LINE CG MM

LINE CG JJ

30" C&G TYPE A 6"

248PT

253PT

STH 35 SB

STH 35 NB

32G

32H

252PT

LINE CG LL

CONCRETE SIDEWALK 6-INCH

30" C&G TYPE A 6"

LINE CG II

246PT

242PI

245CC

239CC

241PI

222PT

30" C&G TYPE A 6"

235PI

236PI

LINE CG KK

221CC

216PC

218PI

18" C&G TYPE A 6" REJECT

WEST TERM RAB

234CC

233PT

36" C&G TYPE R 4" SLOPED

LINE CG DD

30H

LINE CG GGG

182PT

181PC

30" C&G TYPE A 6"

185CC

176PT

LINE CG Z

179CC

175PT

159PT

172PT

LINE CG U

LINE CG Y

171PC

STH 35 SB

STH 35 NB

LINE CG S

30" C&G TYPE A 6"

170PT

156PT

157PT

164PT

CONCRETE SIDEWALK 6-INCH

30" C&G TYPE A 6"

LINE CG CC

SW RAMP RT TURN BAY

30" C&G TYPE A 6"

SW RAMP PAVEMENT CONSTRUCTION ENDS AT STA 178+00C

230CC

224PI

231PI

223PI

227PI

226PI

LINE CG HH

SW RAMP

180C

181C

147PC

162PT

165PT

168CC

145PT

CONCRETE SIDEWALK 6-INCH

LINE CG AA

LINE CG BB

30G

LOCATION MAP

N

0 20 40 60 FEET

SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35 AND WEST TERM RAB	SHEET 61	E

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
156PT	28+61.10	0.00	28+53.59	51.774RT	373108.11	504330.41	
157PT	28+61.10	18.00 RT	28+51.48	69.670RT	373091.70	504337.82	
159PT	29+59.10	18.81 RT	29+36.04	106.295RT	373093.24	504420.66	
162PT	181+24.14	9.36 LT	29+58.69	141.251RT	373068.45	504451.67	
164PT	28+70.19	50.78 RT	28+53.46	103.029RT	373063.84	504356.25	
165PT	181+21.22	13.60 LT	29+53.69	144.468RT	373063.94	504449.17	
168CC	181+25.97	13.73 LT	29+53.14	139.716RT	373068.16	504446.93	
170PT	28+67.46	53.12 LT	28+68.25	0.004RT	373160.05	504316.94	
171PC	28+88.03	53.02 LT	28+97.17	6.000RT	373168.34	504345.17	
172PT	28+95.39	81.34 LT	29+15.86	18.000LT	373198.19	504351.45	
175PT	29+38.03	0.00	29+31.23	78.903RT	373116.52	504405.63	
176PT	29+40.11	4.54 LT	29+36.13	76.483RT	373120.52	504408.65	
179CC	29+35.57	4.00 LT	29+31.53	74.195RT	373120.92	504403.94	
181PC	29+22.93	73.58 LT	29+54.13	6.000RT	373191.98	504396.46	
182PT	29+26.80	69.22 LT	29+57.56	12.716RT	373187.06	504402.15	
185CC	29+22.56	66.55 LT	29+50.37	12.000RT	373185.02	504395.34	
187PT	180+85.59	40.46 LT	29+76.14	57.271LT	373259.04	504393.83	

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
216PC	30+80.11	155.07 LT	30+31.10	26.805LT	373249.76	504458.37	
218PI	30+80.78	149.92 LT	30+32.54	22.000LT	373245.72	504461.64	
221CC	30+84.41	153.01 LT	30+34.45	26.000LT	373250.27	504463.10	
222PT	31+35.66	102.78 LT	30+90.62	21.501LT	373235.30	504533.12	
233PT	30+69.00	21.07 RT	31+46.72	103.825RT	373094.03	504541.41	
234CC	30+02.08	65.37 LT	30+54.93	65.500RT	373161.65	504485.88	
235PI	31+26.11	0.00	31+61.09	47.210RT	373142.52	504578.58	
236PI	31+22.91	7.01 LT	31+55.80	44.618RT	373146.68	504572.09	
239CC	31+29.90	6.00 LT	31+60.01	40.250RT	373149.63	504578.60	
241PI	31+41.77	45.38 LT	31+42.42	4.460RT	373189.74	504568.74	
242PI	31+46.16	46.57 LT	31+44.52	0.000	373193.20	504572.28	
245CC	31+44.86	42.09 LT	31+46.95	4.000RT	373188.62	504573.31	
246PT	31+46.18	77.89 LT	31+18.28	18.532LT	373220.27	504556.54	
248PT	32+12.04	28.13 LT	32+22.49	17.500LT	373208.20	504643.82	
252PT	31+94.02	0.00	32+08.86	13.445RT	373175.01	504638.15	
253PT	32+10.33	10.72 LT	32+22.49	0.000	373191.46	504648.92	

	LINE E				
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
190PT	182+30.67	49.168 LT	373350.83	504396.46	
191PC	180+73.01	10.478 LT	373230.00	504406.72	
192PC	180+77.09	0.011 LT	373225.04	504416.80	
195CC	180+82.83	8.000 LT	373234.66	504415.37	
198PT	182+26.26	33.788 LT	373351.37	504412.45	
199PT	182+09.96	0.000	373346.28	504449.62	
203PI	183+08.18	10.279 LT	373436.58	504409.56	
204PI	183+06.36	0.000	373437.99	504419.90	
207CC	183+01.36	6.000 LT	373431.38	504415.74	
208PI	183+16.77	21.013 RT	373453.97	504436.92	
209PI	183+16.79	22.013 RT	373454.28	504437.87	
211PI	183+06.32	21.000 RT	373444.42	504439.89	
213PI	182+56.41	18.000 RT	373396.02	504452.42	
214PT	182+09.96	18.000 RT	373351.83	504466.74	

	LINE C				
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
145PT	181+16.65	37.159 LT	373049.31	504430.14	
147PC	180+53.08	0.000	373009.31	504492.36	
223PI	180+68.27	22.714 RT	373033.24	504505.49	
224PI	180+68.51	23.686 RT	373033.90	504506.24	
226PI	180+93.51	15.000 RT	373052.03	504487.17	
227PI	181+12.00	15.000 RT	373068.45	504478.88	
230CC	181+08.63	21.000 RT	373068.15	504485.74	
231PI	181+15.59	20.762 RT	373074.22	504482.44	

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER
- SEE NEXT SHEET FOR POINT TABULATION CHART

N

STH 64 WB

STH 64 EB

182B

182A

CONCRETE PAVEMENT APPROACH SLAB, SEE SDD 13B2: CONCRETE PAVEMENT APPROACH SLAB

CONCRETE BARRIER SINGLE SLOPE - TYPE S42
STA. 36+64.79H TO 37+63.31H

447PI

LINE CG OO

446PI

443MP

442PC

444PT

283PC

441PI

293PT

LINE CG MM

286PI

302CC

290CC

LINE CG PP

287PI

308CC

292PC

291PI

305PI

294PT

APPROACH SLAB LIMITS:
STA 36+66.17 E.B.

LINE CG NN

LINE CG LL

CONCRETE SIDEWALK 6-INCH

30" C&G
TYPE A 6"

STRUCTURE B-55-0226

APPROACH SLAB LIMITS:
STA 34+09.54G

LINE CG JJ

246PT

30" C&G
TYPE A 6"

SHARED USE PATH

242PI

248PT

262PI

245CC

32H

253PT

LINE CG MM

256PI

STH 35 SB

34H

260CC

30" C&G
TYPE A 6"

34G

LINE CG KK

239CC

254PT

257PI

STH 35 NB

261PI

252PT

32G

255PT

235PI

LINE CG LL

LINE CG II

CONCRETE SIDEWALK 6-INCH

30" C&G
TYPE A 6"

DEPRESSED CURB
SEE CONSTRUCTION DETAIL
"DEPRESSED CURB HEAD
AT MGS GUARDRAIL"

MGS EAT POST 1
STA. 33+34.19G
OFFSET 21.915 RT

439PI

440PI

6" CONCRETE
CURB HEAD
TYPE A

CONCRETE GUARDRAIL MOW STRIP

MGS THRIE BEAM TRANSITION

CONCRETE PAVEMENT
APPROACH SLAB,
SEE SDD 13B2:
CONCRETE PAVEMENT
APPROACH SLAB

36H

36G

STH 64 WB

STH 64 EB

180B

180A

0 20 40 60
FEET
SCALE

N

LOCATION MAP

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35 NB/SB	SHEET 63	E

		LINE G		LINE H			
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
235PI	31+26.11	0.00	31+61.09	47.210RT	373142.52	504578.58	
239CC	31+29.90	6.00 LT	31+60.01	40.250RT	373149.63	504578.60	
241PI	31+41.77	45.38 LT	31+42.42	4.460RT	373189.74	504568.74	
242PI	31+46.16	46.57 LT	31+44.52	0.000	373193.20	504572.28	
245CC	31+44.86	42.09 LT	31+46.95	4.000RT	373188.62	504573.31	
246PT	31+46.18	77.89 LT	31+18.28	18.532LT	373220.27	504556.54	
248PT	32+12.04	28.13 LT	32+22.49	17.500LT	373208.20	504643.82	
252PT	31+94.02	0.00	32+08.86	13.445RT	373175.01	504638.15	
253PT	32+10.33	10.72 LT	32+22.49	0.000	373191.46	504648.92	
254PT	32+61.93	0.00	32+75.10	8.000RT	373199.13	504701.58	
255PT	32+61.93	17.50 RT	32+75.10	25.500RT	373182.39	504706.68	
256PI	33+13.11	8.00 LT	33+26.28	0.000	373221.69	504748.21	
257PI	33+13.11	0.00	33+26.28	8.000RT	373214.04	504750.54	
260CC	33+09.11	4.00 LT	33+22.28	4.000RT	373216.70	504745.55	
261PI	34+06.36	17.50 RT	34+19.53	25.500RT	373224.46	504844.85	
262PI	34+12.79	25.50 LT	34+25.96	17.500LT	373267.47	504838.47	
283PC	36+76.58	25.52 LT	36+90.18	17.500LT	373344.42	505091.23	
286PI	36+70.52	8.00 LT	36+83.69	0.000	373325.79	505090.13	
287PI	36+70.52	0.00	36+83.69	8.000RT	373318.14	505092.46	
290CC	36+74.52	4.00 LT	36+87.69	4.000RT	373323.13	505095.12	

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
291PI	36+62.89	17.50 RT	36+76.06	25.500RT	373299.17	505090.25	
292PC	36+74.52	17.50 RT	36+87.69	25.500RT	373302.56	505101.38	
293PT	36+64.17	25.50 LT	36+77.34	17.500LT	373340.68	505078.95	
294PT	37+78.72	18.53 RT	37+50.52	72.159RT	373290.49	505188.66	
298PI	37+36.22	40.53 LT	37+67.69	0.000	373361.62	505165.65	
302CC	37+37.62	33.68 LT	37+63.97	6.000RT	373354.55	505165.98	
304PI	37+54.59	4.46 LT	37+55.13	39.773RT	373321.02	505176.45	
305PI	37+52.49	LT	37+51.00	40.850RT	373317.56	505172.92	
308CC	37+50.06	4.00 LT	37+52.30	36.400RT	373322.15	505171.88	
439PI	33+46.68	26.83 RT	33+59.85	34.832RT	373198.15	504790.47	
440PI	33+84.15	23.58 RT	33+97.32	31.583RT	373212.17	504825.37	
441PI	36+51.62	27.50 LT	36+64.79	19.500LT	373338.94	505066.36	
442PC	36+83.24	27.88 LT	36+99.10	19.349LT	373348.73	505098.51	
443MP	37+05.94	35.48 LT	37+31.18	19.124LT	373359.97	505125.79	
444PT	37+23.69	52.55 LT	37+63.31	20.623LT	373376.18	505150.45	
446PI	37+23.87	52.81 LT	37+63.70	20.652LT	373376.41	505150.74	
447POST9	37+39.36	79.89 LT	38+00.30	22.090LT	373399.00	505178.84	

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER
- SEE NEXT SHEET FOR POINT TABULATION CHART

LOCATION MAP

N

30" C&G TYPE D 6"
36" C&G TYPE D 6" SLOPED
385PI
384PI
383PT
382PT
40+59
366PT
ASPHALT
CONCRETE
ASPHALT
STA 40+71G
CONCRETE
LINE CG WW
381PT
CTH E EB
40C
CONCRETE SIDEWALK 6-INCH
30" C&G TYPE A 6"
LINE CG BBB
LINE CG CCC
30" C&G TYPE A 6"
345PT
HOE
BEGINNING/END OF CG ZZ/AAA
LINE CG ZZ
LINE CG XX
372CC
SEE SDD - CURB RAMPS
LINE CG AAA
368PI
378CC
30" C&G TYPE A 6"
369PI
364PC
375PI
182F
374PI
181D
339PI
343PC
36" C&G TYPE A 4" SLOPED
LINE CG UU
361PI
333PI
342CC
351PI
362PI
184F
355PI
354CC
349PI
336PT
30" C&G TYPE A 6"
356PI
335PT
STH 35/NE RAMP
18" C&G TYPE A 6" REJECT
EAST TERM RAB
350CC
LINE CG YY
LINE CG VV
LINE CG VV ENDS AT STA 177+75D
SE RAMP RT TURN BAY
325PI
327PI
STH 35/NE RAMP PAVEMENT CONSTRUCTION ENDS AT STA 185+50F
448POST1
36" C&G TYPE R 4" SLOPED
LINE CG QQ
312PI
313PI
316CC
DEPRESSED CURB SEE CONSTRUCTION DETAIL "DEPRESSED CURB HEAD AT MGS GUARDRAIL"
347PC
SHARED USE PATH
SE RAMP
180D
331PC
330CC
326PI
318PT
319PI
321PI
324PI
SE RAMP
MGS EAT POST 1 STA. 38+48.16H OFFSET 28.311 LT
LINE CG RR
38G
LINE CG TT
LINE CG SS
30" C&G TYPE A 6"
322PI
CONCRETE SIDEWALK 6-INCH 4" BASE AGG - 3/4" DENSE
MGS THRIE BEAM TRANSITION
447POST9
285PT
299PI
LINE CG PP
310PT
298PI
304PI
LINE CG OO
294PT
LINE CG NN
CONCRETE BARRIER SINGLE SLOPE 42-INCH THRIE BEAM ANCHORAGE STA. 37+52.81H - 37+63.31H
446PI
444PT
302CC
308CC
305PI
30" C&G TYPE A 6"
LINE CG MM
30" C&G TYPE A 6"
LINE CG LL
CONCRETE SIDEWALK 6-INCH
443MP
STH 35 SB
STH 35 NB
SE RAMP TOP SURFACE CONSTRUCTION ENDS AT STA 177+11D
0 20 40 60 FEET
SCALE
445CC
442PC
283PC
290CC
292PC
286PI
287PT

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35/CTH E AND EAST TERM RAB	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021111_ID_72.DWG PLOT DATE : 9/25/2014 3:05 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
283PC	36+76.58	25.52 LT	36+90.18	17.500LT	373344.42	505091.23	
285PT	37+38.03	71.35 LT	37+92.44	18.114LT	373391.17	505174.81	
294PT	37+78.72	18.53 RT	37+50.52	72.159RT	373290.49	505188.66	
298PI	37+36.22	40.53 LT	37+67.69	0.000	373361.62	505165.65	
299PI	37+41.74	38.40 LT	37+70.84	6.890RT	373357.89	505172.26	
302CC	37+37.62	33.68 LT	37+63.97	6.000RT	373354.55	505165.98	
304PI	37+54.59	4.46 LT	37+55.13	39.773RT	373321.02	505176.45	
305PI	37+52.49	LT	37+51.00	40.850RT	373317.56	505172.92	
308CC	37+50.06	4.00 LT	37+52.30	36.400RT	373322.15	505171.88	
310PT	38+06.39	21.50 RT	37+59.26	97.358RT	373275.47	505212.07	
312PI	38+61.05	22.00 RT	39+50.61	136.703RT	373263.89	505279.14	
313PI	38+62.49	26.81 RT	39+54.97	139.517RT	373259.69	505282.21	
316CC	38+59.15	26.00 RT	39+50.63	141.476RT	373259.43	505277.45	
345PT	39+73.77	21.19 RT	40+11.39	76.291RT	373302.58	505388.33	
347PC	37+49.37	101.06 LT	38+27.69	21.580LT	373414.64	505201.33	

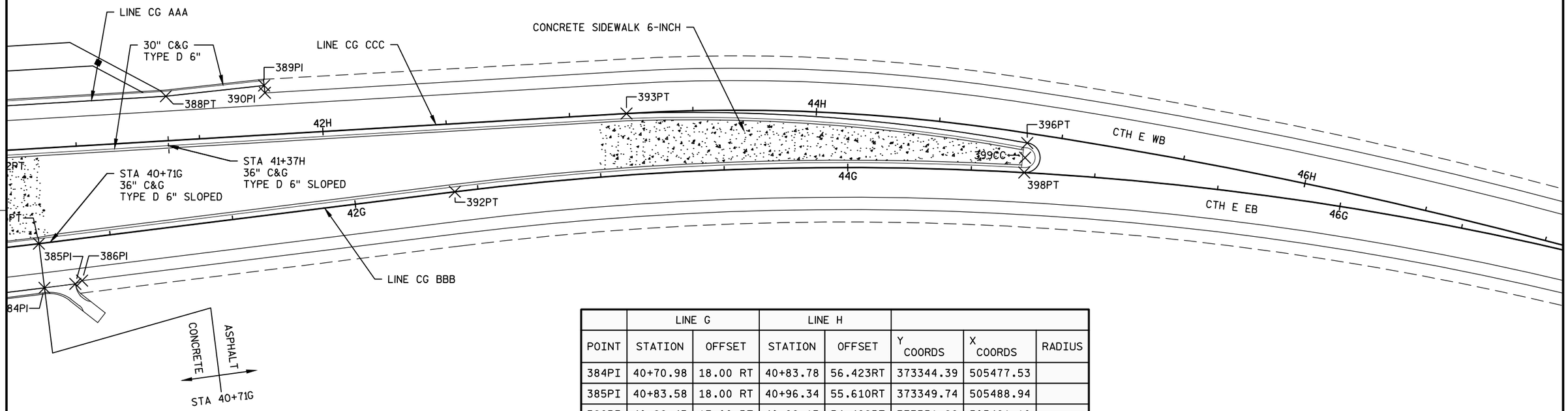
	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
350CC	38+41.28	65.50 LT	38+56.50	65.500RT	373349.11	505259.32	
364PC	39+32.81	143.88 LT	39+00.06	34.605LT	373443.23	505293.43	
366PT	40+50.72	57.71 LT	40+59.44	18.000LT	373404.79	505427.70	
368PI	39+62.14	72.27 LT	39+67.20	0.000	373385.59	505343.90	
369PI	39+57.37	70.08 LT	39+65.13	4.587RT	373381.93	505340.43	
372CC	39+61.57	67.57 LT	39+69.68	4.000RT	373381.02	505345.08	
374PI	39+32.61	7.08 LT	39+79.25	69.669RT	373314.48	505339.67	
375PI	39+35.89	0.00	39+83.49	73.934RT	373308.93	505345.15	
378CC	39+39.74	6.00 LT	39+83.60	66.806RT	373315.89	505346.72	
381PT	40+22.33	18.80 RT	40+42.39	61.195RT	373323.49	505432.93	
382PT	40+49.77	39.73 LT	40+59.44	0.000	373388.03	505434.27	
383PT	40+70.98	0.00	40+82.62	38.461RT	373360.69	505469.89	
384PI	40+70.98	18.00 RT	40+83.78	56.423RT	373344.39	505477.53	
385PI	40+83.58	18.00 RT	40+96.34	55.610RT	373349.74	505488.94	
386PI	40+86.43	17.00 RT	40+99.13	54.428RT	373351.86	505491.10	

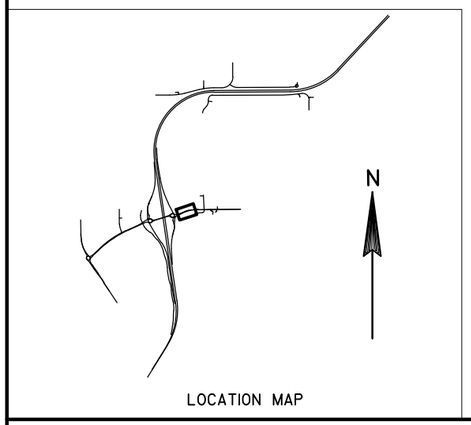
	LINE D				
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
318PT	180+41.72	18.000 LT	373158.20	505268.53	
319PI	179+95.27	18.000 LT	373113.32	505280.52	
321PI	179+45.36	21.000 LT	373064.33	505290.52	
322PI	179+45.51	23.495 LT	373063.83	505288.07	
324PI	179+29.56	20.998 LT	373049.32	505294.50	
325PI	179+32.75	23.815 RT	373063.59	505337.10	
326PI	179+45.10	0.000	373069.51	505310.87	
327PI	179+43.65	10.329 RT	373070.77	505321.22	
330CC	179+50.32	6.000 RT	373076.09	505315.32	
331PC	180+41.72	0.000	373162.85	505285.92	
333PI	181+74.59	0.000	373282.21	505325.00	
335PT	180+25.42	33.788 RT	373155.82	505322.77	
336PT	180+21.01	49.168 RT	373155.53	505338.77	
339PI	181+78.95	10.364 RT	373276.74	505334.81	
342CC	181+68.85	8.000 RT	373272.53	505325.93	
343PC	181+63.79	41.629 RT	373245.19	505345.91	

	LINE F				
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
349PI	182+49.84	20.959 LT	373436.37	505265.90	
351PI	182+53.36	15.000 LT	373442.19	505269.64	
354CC	182+56.78	21.000 LT	373442.55	505262.74	
355PI	183+21.04	15.000 LT	373502.65	505239.20	
356PI	183+21.04	17.500 LT	373501.52	505236.97	
361PI	183+21.04	2.500 RT	373510.52	505254.83	
362PI	183+21.04	0.000	373509.39	505252.60	

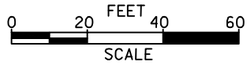
	LINE H				
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
439PI	33+46.68	26.832 RT	373198.15	504790.47	
440PI	33+84.15	23.583 RT	373212.17	504825.37	
441PI	36+51.62	27.500 LT	373338.94	505066.36	
442PC	36+83.24	27.881 LT	373348.73	505098.51	
443MP	37+05.94	35.477 LT	373359.97	505125.79	
444PT	37+23.69	52.547 LT	373376.18	505150.45	
445CC	37+19.32	174.006 LT	373497.01	505053.36	
446PI	37+23.87	52.805 LT	373376.41	505150.74	
447POST9	37+39.36	79.889 LT	373399.00	505178.84	
448POST1	38+48.16	28.311 LT	373433.81	505218.97	

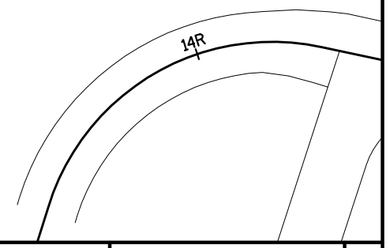
GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER





	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
384PI	40+70.98	18.00 RT	40+83.78	56.423RT	373344.39	505477.53	
385PI	40+83.58	18.00 RT	40+96.34	55.610RT	373349.74	505488.94	
386PI	40+86.43	17.00 RT	40+99.13	54.428RT	373351.86	505491.10	
388PT	41+29.31	52.81 LT	41+37.42	18.000LT	373433.26	505500.30	
389PI	41+69.33	52.23 LT	41+77.39	20.003LT	373449.72	505536.77	
390PI	41+69.29	49.23 LT	41+77.54	17.008LT	373446.99	505538.01	
392PT	42+40.58	0.00	42+51.86	27.515RT	373432.68	505623.45	
393PT	43+12.09	24.90 LT	43+23.09	0.000	373484.30	505679.72	
396PT	44+72.00	11.97 LT	44+86.39	4.000RT	373523.06	505837.67	
398PT	44+71.44	0.00	44+86.97	15.973RT	373511.34	505840.17	
399CC	44+71.44	6.00 LT	44+86.39	10.000RT	373517.14	505838.64	





PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: CTH E	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021111_ID_72.DWG PLOT DATE : 9/25/2014 3:05 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER
- SEE NEXT SHEET FOR POINT TABULATION CHART

N

82P

THELEN FARM TRAIL

426PI

427PI

428PI

415PI

414PI

36" C&G
TYPE D
6" SLOPED

LINE CG DDD

36" C&G
TYPE D
6" SLOPED

LINE CG EEE

409PI

411PI

407PI

408PI

CTH E WB

432PI

433PI

437PI

438PI

48H

48G

CTH E EB

80P

80Q

52G

402PI

405PI

406PI

436PI

434PI

435PI

416PT

417PT

424PT

425PT

422PT

423CC

418CC

419PT

421PT

420PT

12R

SHARED F.E.

14R

0 20 FEET 40 60
SCALE

LOCATION MAP

N

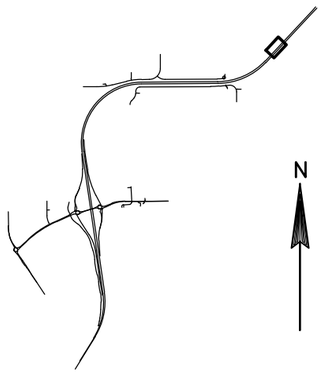
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: CTH E/THELEN FARM TRAIL	SHEET 68	E

2

	LINE G		LINE H				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
402PI	47+46.57	12.00 RT	47+62.69	12.479RT	373540.52	506112.18	

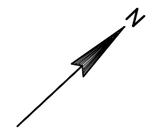
	LINE G		LINE P				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
407PI	48+43.30	12.00 LT	80+18.59	157.634LT	373566.10	506208.27	
408PI	48+76.63	17.00 LT	80+22.19	124.121LT	373571.38	506241.56	
409PI	48+89.74	22.00 LT	80+26.64	110.815LT	373576.49	506254.63	
411PI	49+43.30	24.00 LT	80+26.41	57.220LT	373578.95	506308.17	
414PI	49+83.81	65.93 LT	80+66.62	15.000LT	373621.23	506348.32	
415PI	49+83.78	75.94 LT	80+76.62	14.605LT	373631.23	506348.21	
426PI	49+83.64	141.88 LT	81+42.51	12.000LT	373697.17	506347.50	
427PI	50+07.62	142.88 LT	81+42.51	12.000RT	373698.37	506371.47	
428PI	50+13.12	83.06 LT	80+82.51	15.000RT	373638.60	506377.48	
432PI	50+73.98	24.00 LT	80+20.96	73.347RT	373580.06	506438.84	
433PI	50+83.98	24.00 LT	80+20.55	83.338RT	373580.15	506448.84	
437PI	52+19.06	17.00 LT	80+07.92	218.011RT	373574.30	506583.98	
438PI	52+63.99	12.00 LT	80+01.05	262.692RT	373569.68	506628.95	

	LINE G		LINE R				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
405PI	48+03.79	17.00 RT	12+66.79	99.394RT	373536.76	506169.01	
406PI	48+30.44	22.00 RT	12+40.73	91.900RT	373531.99	506195.71	
416PT	49+64.38	29.00 RT	10+28.96	37.224RT	373526.13	506329.70	
417PT	49+64.27	32.00 RT	10+31.95	37.340RT	373523.13	506329.61	
418CC	49+64.31	54.00 RT	10+69.50	35.000RT	373501.13	506329.84	
419PT	49+87.00	64.50 RT	10+69.50	10.000RT	373490.82	506352.62	
420PT	49+79.42	76.23 RT	10+86.32	10.000RT	373479.03	506345.14	
421PT	50+08.87	62.93 RT	10+60.37	10.000LT	373492.58	506374.48	
422PT	50+11.49	47.78 RT	10+47.17	10.000LT	373507.75	506376.97	
423CC	50+31.45	49.00 RT	10+47.17	30.000LT	373506.70	506396.94	
424PT	50+31.45	29.00 RT	10+29.03	29.849LT	373526.70	506396.77	
425PT	50+31.63	32.00 RT	10+32.04	30.019LT	373523.70	506396.97	
434PI	51+30.37	17.00 RT	10+17.15	128.779LT	373539.54	506495.58	
435PI	51+47.04	18.00 RT	10+18.17	145.446LT	373538.68	506512.26	
436PI	51+71.58	12.00 RT	10+12.20	170.000LT	373544.89	506536.75	

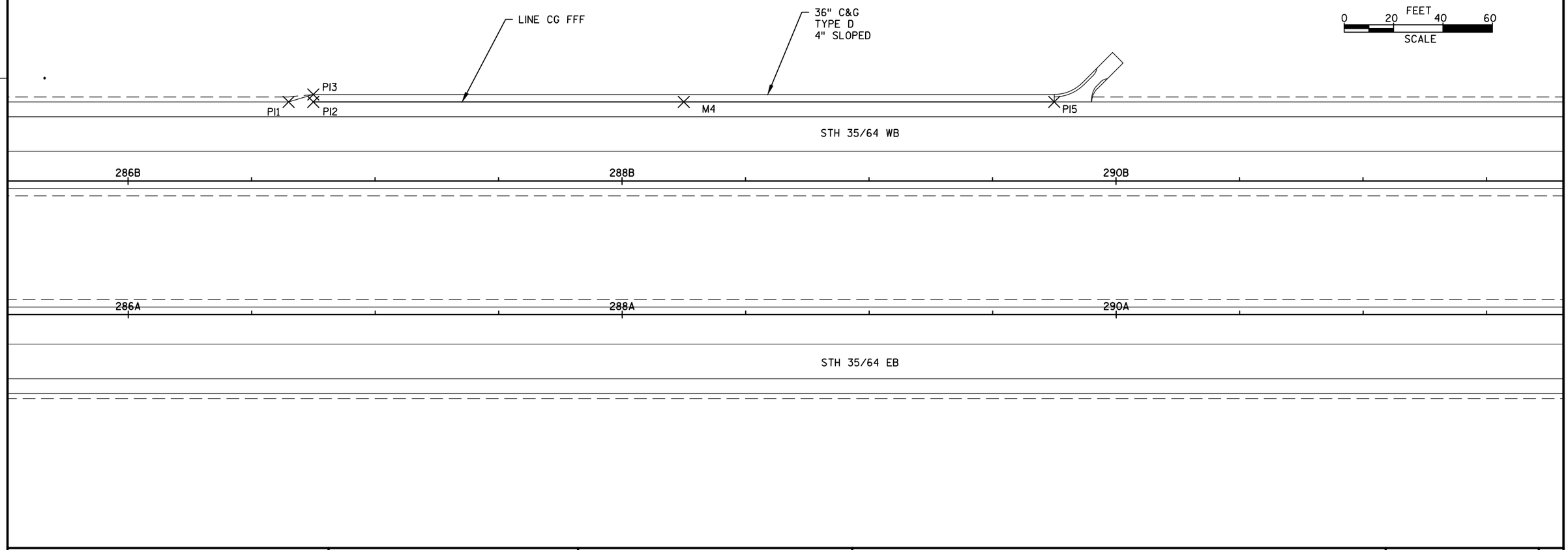


LOCATION MAP

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER

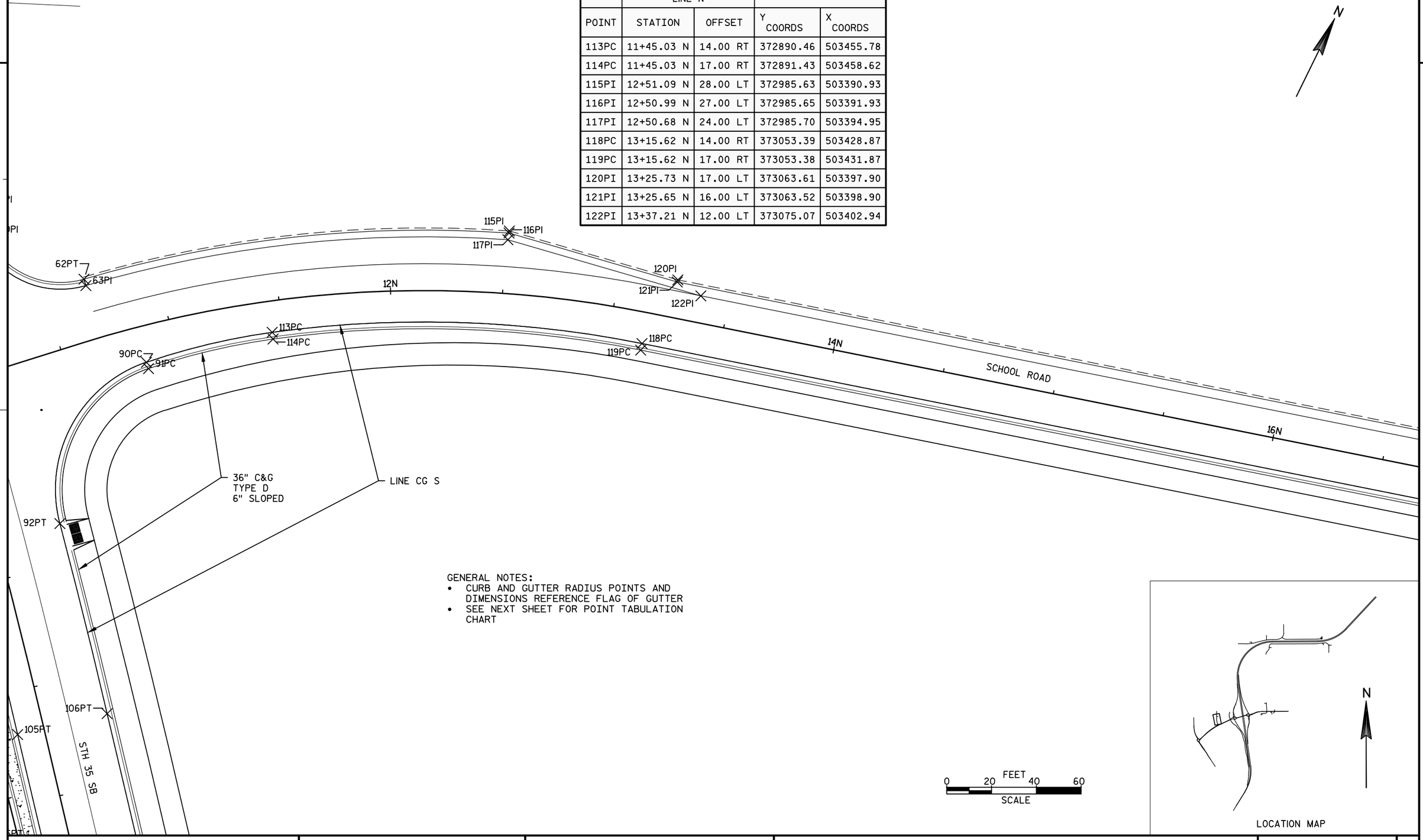


	LINE A		LINE B			
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS
M4	288+24.94 A	86.00 LT	288+25.00 B	32.00 LT	378877.66	511377.08
PI1	286+64.94 A	86.00 LT	286+65.00 B	32.00 LT	378760.81	511267.79
PI2	286+74.94 A	86.00 LT	286+75.00 B	32.00 LT	378768.11	511274.62
PI3	286+74.94 A	89.00 LT	286+75.00 B	35.00 LT	378770.16	511272.43
PI5	289+74.94 A	86.00 LT	289+75.00 B	32.00 LT	378987.21	511479.54



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35/64 CURB & GUTTER	SHEET 70	E

	LINE N			
POINT	STATION	OFFSET	Y COORDS	X COORDS
113PC	11+45.03 N	14.00 RT	372890.46	503455.78
114PC	11+45.03 N	17.00 RT	372891.43	503458.62
115PI	12+51.09 N	28.00 LT	372985.63	503390.93
116PI	12+50.99 N	27.00 LT	372985.65	503391.93
117PI	12+50.68 N	24.00 LT	372985.70	503394.95
118PC	13+15.62 N	14.00 RT	373053.39	503428.87
119PC	13+15.62 N	17.00 RT	373053.38	503431.87
120PI	13+25.73 N	17.00 LT	373063.61	503397.90
121PI	13+25.65 N	16.00 LT	373063.52	503398.90
122PI	13+37.21 N	12.00 LT	373075.07	503402.94



GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER
- SEE NEXT SHEET FOR POINT TABULATION CHART

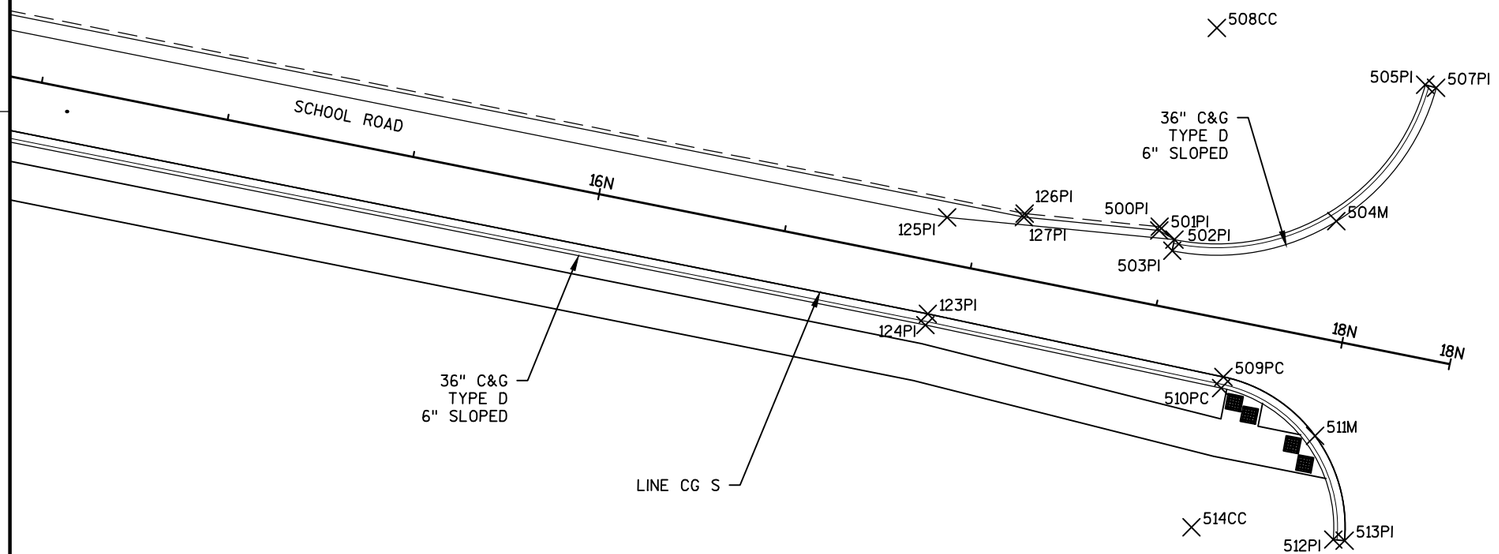
LOCATION MAP

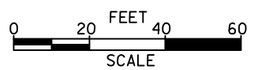
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35 NB/SB AT SCHOOL RD	SHEET	E

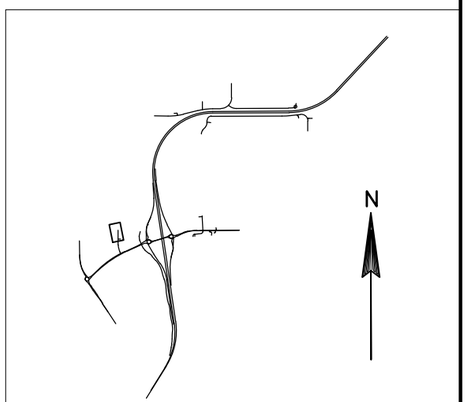
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021111_ID_72.DWG PLOT DATE : 9/25/2014 3:05 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER
- SEE NEXT SHEET FOR POINT TABULATION CHART

	LINE N				
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
123PI	16+91.28	14.000 RT	373429.05	503430.19	
124PI	16+91.26	17.000 RT	373429.02	503433.19	
125PI	16+91.28	12.000 LT	373429.14	503404.19	
126PI	17+11.14	17.000 LT	373449.01	503399.26	
127PI	17+11.14	16.000 LT	373449.01	503400.26	
500PI	17+46.78	20.564 LT	373484.67	503395.82	
501PI	17+46.90	19.571 LT	373484.79	503396.81	
502PI	17+51.29	18.000 LT	373489.17	503398.40	
503PI	17+51.29	15.000 LT	373489.16	503401.40	
504M	17+92.21	31.125 LT	373530.14	503385.42	
505PI	18+08.15	71.040 LT	373546.21	503345.56	
507PI	18+11.14	70.832 LT	373549.21	503345.78	
508CC	17+51.29	75.000 LT	373489.37	503341.40	
509PC	17+71.07	15.001 RT	373508.83	503431.47	
510PC	17+71.03	18.001 RT	373508.78	503434.47	
511M	17+97.81	25.515 RT	373535.54	503442.08	
512PI	18+07.89	51.399 RT	373545.53	503468.00	
513PI	18+10.88	51.107 RT	373548.51	503467.71	
514CC	17+70.56	55.561 RT	373508.18	503472.03	



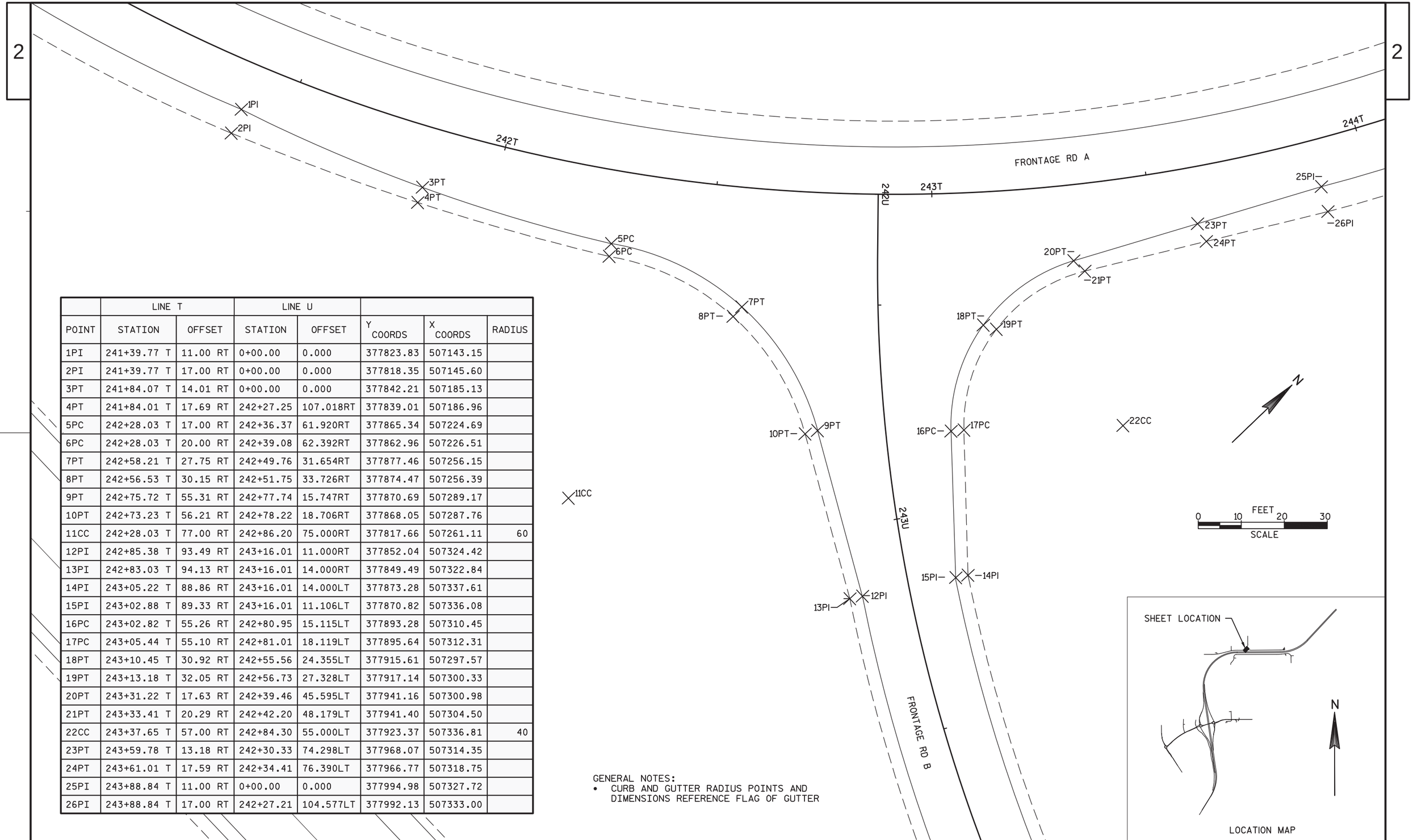




LOCATION MAP

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: STH 35 NB/SB AT SCHOOL RD	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021111_ID_72.DWG PLOT DATE : 9/25/2014 3:05 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42



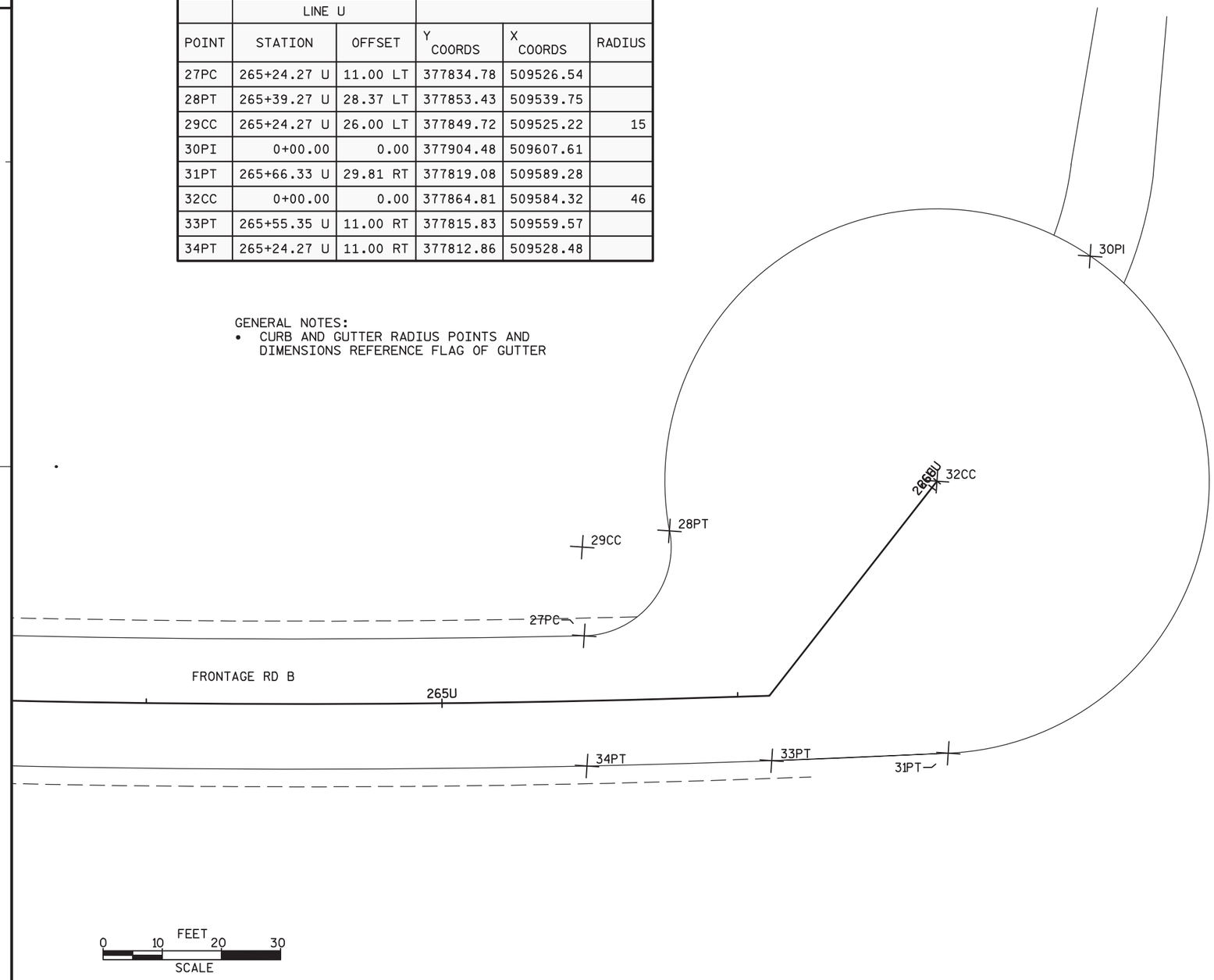
	LINE T		LINE U				
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1PI	241+39.77 T	11.00 RT	0+00.00	0.000	377823.83	507143.15	
2PI	241+39.77 T	17.00 RT	0+00.00	0.000	377818.35	507145.60	
3PT	241+84.07 T	14.01 RT	0+00.00	0.000	377842.21	507185.13	
4PT	241+84.01 T	17.69 RT	242+27.25	107.018RT	377839.01	507186.96	
5PC	242+28.03 T	17.00 RT	242+36.37	61.920RT	377865.34	507224.69	
6PC	242+28.03 T	20.00 RT	242+39.08	62.392RT	377862.96	507226.51	
7PT	242+58.21 T	27.75 RT	242+49.76	31.654RT	377877.46	507256.15	
8PT	242+56.53 T	30.15 RT	242+51.75	33.726RT	377874.47	507256.39	
9PT	242+75.72 T	55.31 RT	242+77.74	15.747RT	377870.69	507289.17	
10PT	242+73.23 T	56.21 RT	242+78.22	18.706RT	377868.05	507287.76	
11CC	242+28.03 T	77.00 RT	242+86.20	75.000RT	377817.66	507261.11	60
12PI	242+85.38 T	93.49 RT	243+16.01	11.000RT	377852.04	507324.42	
13PI	242+83.03 T	94.13 RT	243+16.01	14.000RT	377849.49	507322.84	
14PI	243+05.22 T	88.86 RT	243+16.01	14.000LT	377873.28	507337.61	
15PI	243+02.88 T	89.33 RT	243+16.01	11.106LT	377870.82	507336.08	
16PC	243+02.82 T	55.26 RT	242+80.95	15.115LT	377893.28	507310.45	
17PC	243+05.44 T	55.10 RT	242+81.01	18.119LT	377895.64	507312.31	
18PT	243+10.45 T	30.92 RT	242+55.56	24.355LT	377915.61	507297.57	
19PT	243+13.18 T	32.05 RT	242+56.73	27.328LT	377917.14	507300.33	
20PT	243+31.22 T	17.63 RT	242+39.46	45.595LT	377941.16	507300.98	
21PT	243+33.41 T	20.29 RT	242+42.20	48.179LT	377941.40	507304.50	
22CC	243+37.65 T	57.00 RT	242+84.30	55.000LT	377923.37	507336.81	40
23PT	243+59.78 T	13.18 RT	242+30.33	74.298LT	377968.07	507314.35	
24PT	243+61.01 T	17.59 RT	242+34.41	76.390LT	377966.77	507318.75	
25PI	243+88.84 T	11.00 RT	0+00.00	0.000	377994.98	507327.72	
26PI	243+88.84 T	17.00 RT	242+27.21	104.577LT	377992.13	507333.00	

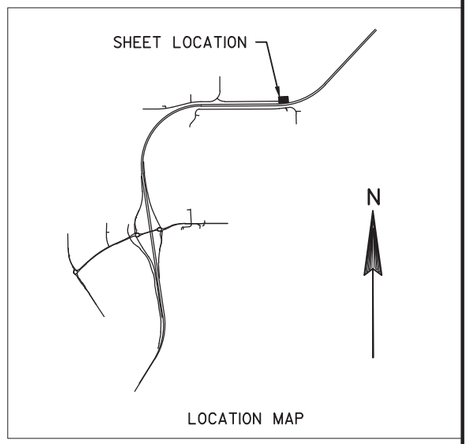
GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: FRONTAGE RD A/B INTERSECTION	SHEET 73	E

	LINE U				
POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
27PC	265+24.27 U	11.00 LT	377834.78	509526.54	
28PT	265+39.27 U	28.37 LT	377853.43	509539.75	
29CC	265+24.27 U	26.00 LT	377849.72	509525.22	15
30PI	0+00.00	0.00	377904.48	509607.61	
31PT	265+66.33 U	29.81 RT	377819.08	509589.28	
32CC	0+00.00	0.00	377864.81	509584.32	46
33PT	265+55.35 U	11.00 RT	377815.83	509559.57	
34PT	265+24.27 U	11.00 RT	377812.86	509528.48	

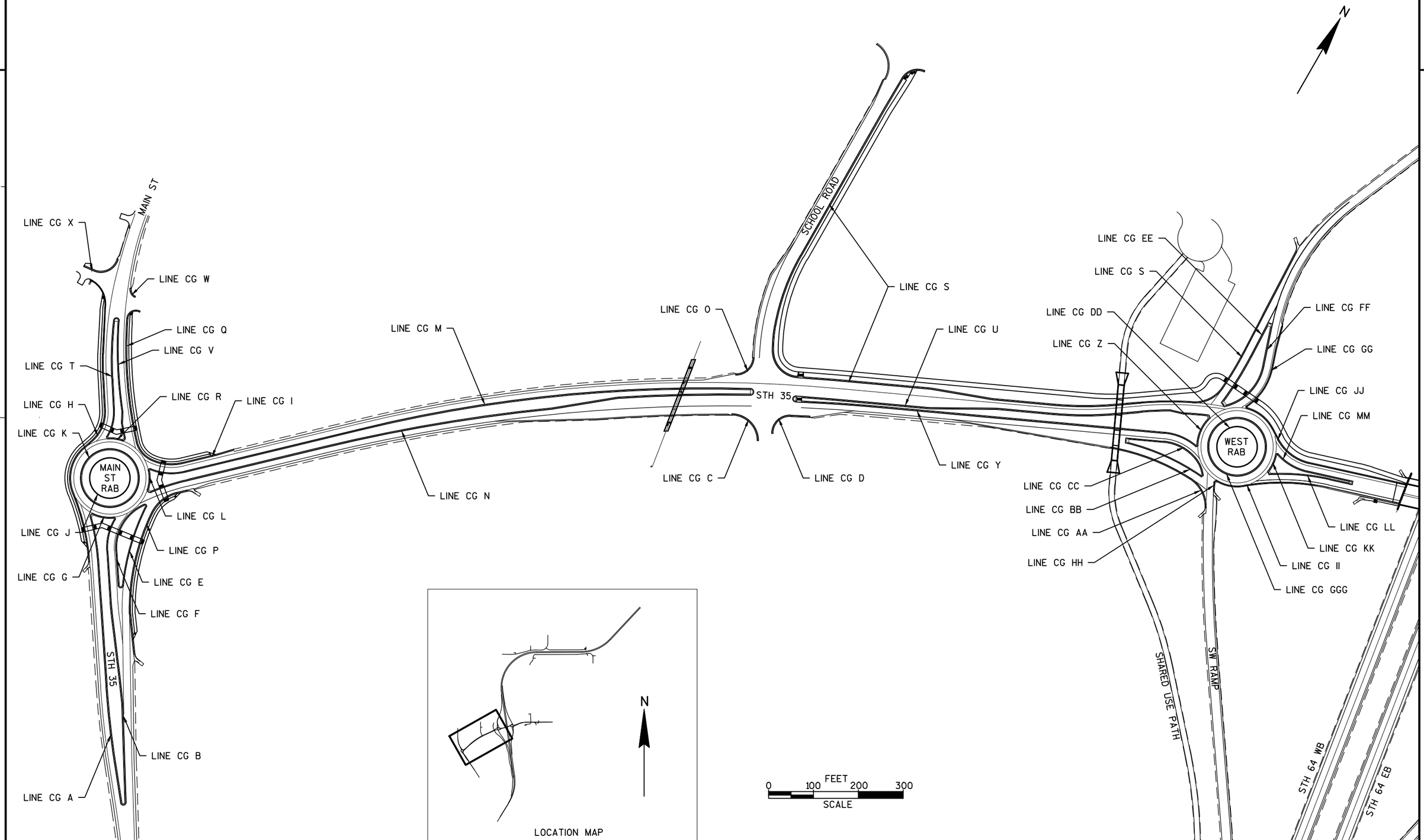
GENERAL NOTES:
- CURB AND GUTTER RADIUS POINTS AND DIMENSIONS REFERENCE FLAG OF GUTTER





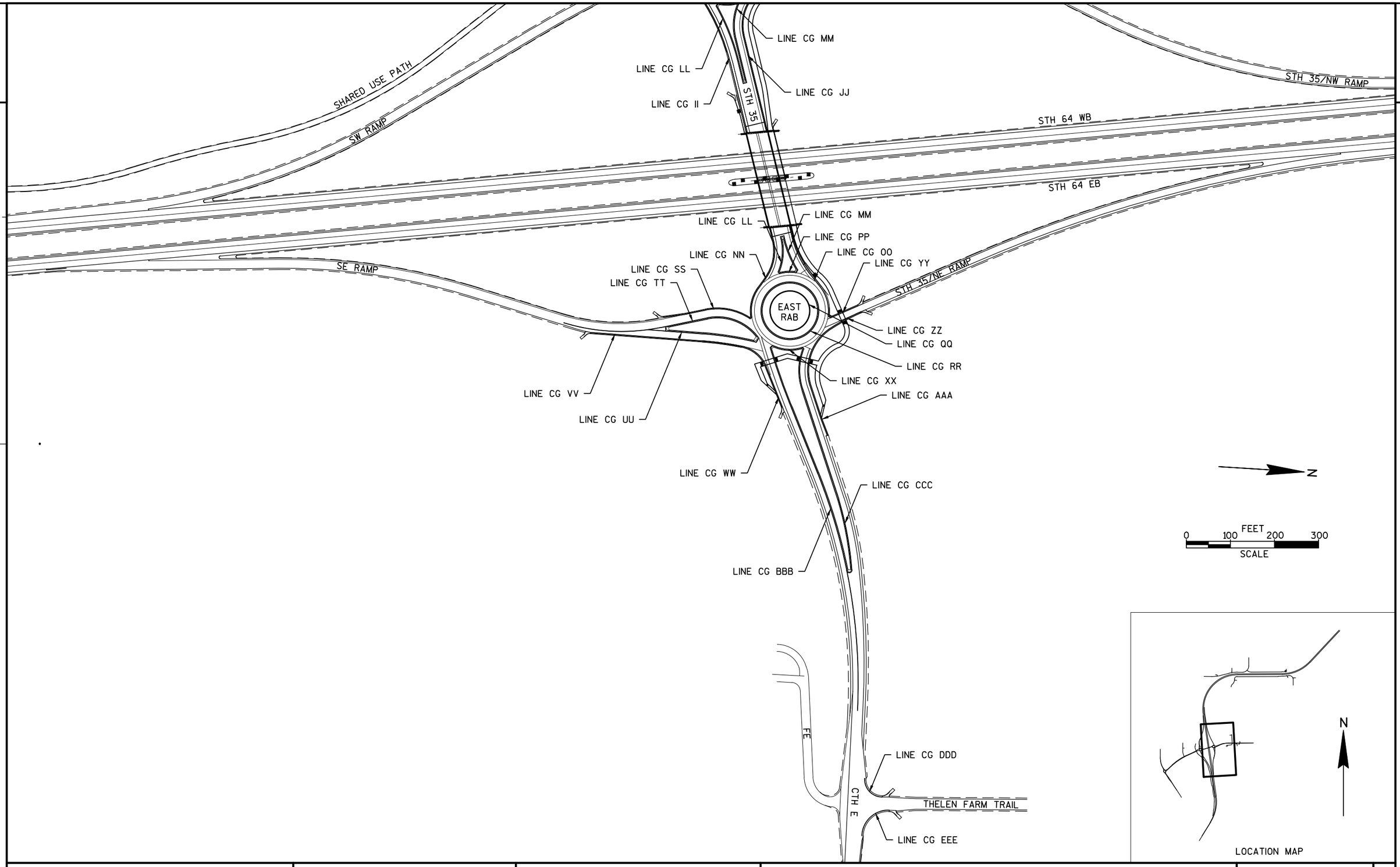
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	INTERSECTION DETAILS: FRONTAGE RD B CUL-DE-SAC	SHEET 74	E

2



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CURB & GUTTER OVERVIEW	SHEET 75	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021113_ID_C&G OVERVIEW.DWG
LAYOUT NAME - 021113_ID_C&G OVERVIEW - 01
PLOT DATE : 7/29/2014 3:40 PM PLOT BY : PETERSON, ANDREW W PLOT NAME :
PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 42



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CURB & GUTTER OVERVIEW	SHEET 76	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021113_ID_C&G OVERVIEW.DWG
LAYOUT NAME - 021113_ID_C&G OVERVIEW - 02
PLOT DATE : 7/29/2014 3:40 PM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 42

2

CG A - STH 35 SB C&G FLANGE RT 301+35 - 307+76

Tangent Data

Description	PT Station	Northing	Easting
Start:	301+35.489	371247.08	502710.47
End:	302+24.519	371316.98	502655.342

Tangent Data

Parameter	Value	Parameter	Value
Length:	89.03	Course:	N 38° 15' 30.2770" W

Curve Point Data

Description	Station	Northing	Easting
PC:	302+24.519	371316.98	502655.342
RP:		372555.4	504225.794
PT:	303+98.116	371457.79	502553.896

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 58' 23.4789"	Type:	RIGHT
Radius:	2000		
Length:	173.597	Tangent:	86.853
Mid-Ord:	1.883	External:	1.885
Chord:	173.543	Course:	N 35° 46' 18.5376" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	303+98.116	371457.79	502553.896
End:	306+77.045	371690.96	502400.818

Tangent Data

Parameter	Value	Parameter	Value
Length:	278.929	Course:	N 33° 17' 06.7982" W

Curve Point Data

Description	Station	Northing	Easting
PC:	306+77.045	371690.96	502400.818
RP:		371416.55	501982.844
PT:	307+80.115	371770.7	502335.803

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	11° 48' 39.3798"	Type:	LEFT
Radius:	500		
Length:	103.07	Tangent:	51.718
Mid-Ord:	2.654	External:	2.668
Chord:	102.887	Course:	N 39° 11' 26.4881" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	307+80.115	371770.7	502335.803
End:	307+87.791	371777.92	502338.408

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.676	Course:	N 19° 50' 19.0357" E

CG B - STH 35 NB C&G FLANGE LT 300+67 - 307+02

Tangent Data

Description	PT Station	Northing	Easting
Start:	300+67.240	371253.9	502720.312
End:	302+87.248	371442.01	502606.217

Tangent Data

Parameter	Value	Parameter	Value
Length:	220.008	Course:	N 31° 14' 16.4812" W

Curve Point Data

Description	Station	Northing	Easting
PC:	302+87.248	371442.01	502606.217
RP:		370300.44	500964.02
PT:	303+46.361	371490.05	502571.764

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 41' 36.4690"	Type:	LEFT
Radius:	2000		
Length:	59.113	Tangent:	29.559
Mid-Ord:	0.218	External:	0.218
Chord:	59.111	Course:	N 35° 39' 06.6137" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	303+46.361	371490.05	502571.764
End:	304+72.442	371591.4	502496.771

Tangent Data

Parameter	Value	Parameter	Value
Length:	126.081	Course:	N 36° 29' 54.8483" W

Curve Point Data

Description	Station	Northing	Easting
PC:	304+72.442	371591.4	502496.771
RP:		372186.2	503300.642
PT:	305+28.525	371637.39	502464.693

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 12' 48.0501"	Type:	RIGHT
Radius:	1000		
Length:	56.083	Tangent:	28.049
Mid-Ord:	0.393	External:	0.393
Chord:	56.076	Course:	N 34° 53' 30.8232" W

CG B - STH 35 NB C&G FLANGE LT 300+67 - 307+02 (CONTINUED)

Tangent Data

Description	PT Station	Northing	Easting
Start:	305+28.525	371637.39	502464.693
End:	306+28.497	371720.97	502409.828

Tangent Data

Parameter	Value	Parameter	Value
Length:	99.972	Course:	N 33° 17' 06.7982" W

Curve Point Data

Description	Station	Northing	Easting
PC:	306+28.497	371720.97	502409.828
RP:		371788.47	502512.65
PT:	307+03.955	371792.47	502389.715

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	35° 09' 00.3024"	Type:	RIGHT
Radius:	123		
Length:	75.459	Tangent:	38.959
Mid-Ord:	5.741	External:	6.022
Chord:	74.281	Course:	N 15° 42' 36.6470" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	307+03.955	371792.47	502389.715
End:	307+08.897	371794.79	502385.351

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.942	Course:	N 62° 00' 12.9731" W

2

CG C - STH 35 NB C&G FLANGE RT 0+00 - 0+93			
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	0+000.000	372671.51	503469.955
RP:		372618.76	503498.552
PT:	0+92.557	372648.84	503550.472
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	88° 23' 07.4075"	Type:	RIGHT
Radius:	60		
Length:	92.557	Tangent:	58.333
Mid-Ord:	16.98	External:	23.682
Chord:	83.649	Course:	S 74° 16' 18.2066" E

CG D - STH 35 NB C&G FLANGE RT 0+00 - 1+08			
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	0+000.000	372677.56	503568.503
RP:		372697.61	503603.116
PT:	0+64.668	372733.11	503584.678
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	92° 37' 50.2763"	Type:	RIGHT
Radius:	40		
Length:	64.668	Tangent:	41.88
Mid-Ord:	12.372	External:	17.913
Chord:	57.852	Course:	N 16° 14' 10.6352" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+64.668	372733.11	503584.678
End:	1+08.036	372752.73	503623.351
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	43.368	Course:	N 63° 05' 36.0665" E

2

CG E - STH 35 NB C&G FLANGE TURN LANE LT 306+28 - 308+12

Curve Point Data

Description	Station	Northing	Easting
PC:	306+28.207	371672.05	502477.72
RP:		371876.48	502951.497
PCC:	308+11.643	371849.73	502436.19

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	20° 22' 06.5875"	Type:	RIGHT
Radius:	516		
Length:	183.437	Tangent:	92.697
Mid-Ord:	8.13	External:	8.26
Chord:	182.472	Course:	N 13° 09' 20.2178" W

Curve Point Data

Description	Station	Northing	Easting
PCC:	308+11.643	371849.73	502436.19
RP:		371876.48	502951.497
PT:	308+14.492	371852.58	502436.051

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 18' 58.4859"	Type:	RIGHT
Radius:	516		
Length:	2.848	Tangent:	1.424
Mid-Ord:	0.002	External:	0.002
Chord:	2.848	Course:	N 02° 48' 47.6811" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	308+14.492	371852.58	502436.051
End:	308+20.143	371854.22	502430.641

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.652	Course:	N 73° 10' 07.5918" W

CG F - STH 35 NB C&G FLANGE RT 305+91 - 307+98

Tangent Data

Description	PT Station	Northing	Easting
Start:	305+91.370	371666.38	502467.196
End:	306+68.483	371730.84	502424.875

Tangent Data

Parameter	Value	Parameter	Value
Length:	77.113	Course:	N 33° 17' 06.7982" W

Curve Point Data

Description	Station	Northing	Easting
PC:	306+68.483	371730.84	502424.875
RP:		371788.47	502512.65
PCC:	307+95.017	371849.83	502427.446

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	69° 02' 46.2508"	Type:	RIGHT
Radius:	105		
Length:	126.534	Tangent:	72.227
Mid-Ord:	18.491	External:	22.443
Chord:	119.015	Course:	N 01° 14' 16.3272" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	307+95.017	371849.83	502427.446
RP:		371564.64	502823.44
PT:	308+48.777	371891.64	502461.201

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	06° 18' 42.6864"	Type:	RIGHT
Radius:	488		
Length:	53.759	Tangent:	26.907
Mid-Ord:	0.74	External:	0.741
Chord:	53.732	Course:	N 38° 55' 00.7959" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	308+48.777	371891.64	502461.201
End:	308+51.232	371890.43	502463.341

Tangent Data

Parameter	Value	Parameter	Value
Length:	2.456	Course:	S 60° 38' 25.4345" E

CG G - STH35/MAIN ST RAB C&G FLANGE SOUTH 307+96 - 308+40

Curve Point Data

Description	Station	Northing	Easting
PC:	307+92.290	371777.92	502338.408
RP:		371865.28	502333.516
PT:	308+42.874	371794.79	502385.351

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	33° 07' 21.1805"	Type:	LEFT
Radius:	87.5		
Length:	50.584	Tangent:	26.021
Mid-Ord:	3.63	External:	3.787
Chord:	49.882	Course:	N 70° 14' 01.5334" E

CG H - STH 35 SB C&G FLANGE LT 306+86 - 313+94

Curve Point Data

Description	Station	Northing	Easting
PC:	306+86.020	371681.08	502385.771
RP:		371416.55	501982.844
PCC:	308+43.400	371796.34	502279.638

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 42' 28.5961"	Type:	LEFT
Radius:	482		
Length:	157.38	Tangent:	79.397
Mid-Ord:	6.409	External:	6.496
Chord:	156.682	Course:	N 42° 38' 21.0962" W

Curve Point Data

Description	Station	Northing	Easting
PCC:	308+43.400	371796.34	502279.638
RP:		371865.28	502333.516
PT:	309+51.687	371893.65	502250.741

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	70° 54' 25.6160"	Type:	RIGHT
Radius:	87.5		
Length:	108.287	Tangent:	62.306
Mid-Ord:	16.224	External:	19.917
Chord:	101.508	Course:	N 16° 32' 22.5863" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	309+51.687	371893.65	502250.741
End:	309+78.031	371918.57	502259.28

Tangent Data

Parameter	Value	Parameter	Value
Length:	26.344	Course:	N 18° 54' 50.2217" E

Curve Point Data

Description	Station	Northing	Easting
PC:	309+78.031	371918.57	502259.28
RP:		371946.12	502178.87
PT:	310+54.063	371991.59	502250.688

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	51° 15' 01.8371"	Type:	LEFT
Radius:	85		
Length:	76.032	Tangent:	40.771
Mid-Ord:	8.36	External:	9.272
Chord:	73.522	Course:	N 06° 42' 40.6968" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	310+54.063	371991.59	502250.688
End:	311+24.679	372051.25	502212.916

Tangent Data

Parameter	Value	Parameter	Value
Length:	70.616	Course:	N 32° 20' 11.6154" W

CG H - STH 35 SB C&G FLANGE LT 306+86 - 313+94 (CONTINUED)

Curve Point Data

Description	Station	Northing	Easting
PC:	311+24.679	372051.25	502212.916
RP:		372479.17	502888.853
PT:	311+80.220	372099.17	502184.859

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 58' 40.3939"	Type:	RIGHT
Radius:	800		
Length:	55.542	Tangent:	27.782
Mid-Ord:	0.482	External:	0.482
Chord:	55.531	Course:	N 30° 20' 51.4185" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	311+80.220	372099.17	502184.859
End:	312+83.173	372190.98	502138.275

Tangent Data

Parameter	Value	Parameter	Value
Length:	102.953	Course:	N 26° 54' 12.4950" W

Curve Point Data

Description	Station	Northing	Easting
PC:	312+83.173	372190.98	502138.275
RP:		372169.48	502082.261
PT:	313+59.696	372229.33	502077.994

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	73° 04' 25.8864"	Type:	LEFT
Radius:	60		
Length:	76.523	Tangent:	44.458
Mid-Ord:	11.792	External:	14.676
Chord:	71.441	Course:	N 57° 32' 27.7451" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	313+59.696	372229.33	502077.994
End:	313+91.592	372229.49	502046.098

Tangent Data

Parameter	Value	Parameter	Value
Length:	31.897	Course:	N 89° 42' 26.3904" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	313+91.592	372229.49	502046.098
End:	313+95.140	372229.55	502042.551

Tangent Data

Parameter	Value	Parameter	Value
Length:	3.547	Course:	N 88° 59' 44.1516" W

CG I - STH 35 SB C&G FLANGE LT 6+49 - 7+67

Tangent Data

Description	PT Station	Northing	Easting
Start:	6+49.400	371973.47	502458.534
End:	7+27.159	372026.52	502515.384

Tangent Data

Parameter	Value	Parameter	Value
Length:	77.759	Course:	N 46° 58' 46.2514" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	7+27.159	372026.52	502515.384
End:	7+67.259	372055.31	502543.299

Tangent Data

Parameter	Value	Parameter	Value
Length:	40.1	Course:	N 44° 07' 01.5766" E

CG J - STH 35/MAIN ST RAB C&G FLANGE INSIDE TRUCK APRON 5+00 - 7+89

Curve Point Data

Description	Station	Northing	Easting
PC:	5+00.000	371849.68	502290.777
RP:		371865.28	502333.516
PT:	7+85.820	371849.74	502290.755

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	359° 55' 06.8912"	Type:	LEFT
Radius:	45.5		
Length:	285.82	Tangent:	0.032
Mid-Ord:	91	External:	91
Chord:	0.065	Course:	N 20° 01' 13.9785" W

CG K - STH 35/MAIN ST RAB C&G FLANGE INSIDE LANE 5+00 - 9+11

Curve Point Data

Description	Station	Northing	Easting
PC:	5+00.000	371842.82	502271.991
RP:		371865.28	502333.516
PT:	9+11.456	371842.9	502271.959

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	359° 55' 06.8912"	Type:	LEFT
Radius:	65.5		
Length:	411.456	Tangent:	0.047
Mid-Ord:	131	External:	131
Chord:	0.093	Course:	N 20° 01' 13.9785" W

2

CG L - STH35/MAIN ST RAB C&G FLANGE EAST 308+71 - 309+12

Curve Point Data

Description	Station	Northing	Easting
PC:	308+67.950	371882.09	502419.387
RP:		371865.28	502333.516
PT:	309+14.750	371923.51	502398.828

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	30° 38' 41.1514"	Type:	LEFT
Radius:	87.5		
Length:	46.8	Tangent:	23.974
Mid-Ord:	3.11	External:	3.225
Chord:	46.244	Course:	N 26° 23' 49.3479" W

CG M - STH 35 SB C&G FLANGE RT 5+73 - 19+23

Tangent Data

Description	PT Station	Northing	Easting
Start:	5+65.933	371923.51	502398.828
End:	5+70.740	371928	502400.564

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.807	Course:	N 21° 10' 19.0834" E

Curve Point Data

Description	Station	Northing	Easting
PC:	5+70.740	371928	502400.564
RP:		372050.24	502386.897
PT:	6+49.399	371960.31	502470.815

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	36° 38' 27.2574"	Type:	LEFT
Radius:	123		
Length:	78.659	Tangent:	40.727
Mid-Ord:	6.234	External:	6.567
Chord:	77.326	Course:	N 65° 17' 59.8801" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	6+49.399	371960.31	502470.815
End:	10+57.387	372238.66	502769.103

Tangent Data

Parameter	Value	Parameter	Value
Length:	407.988	Course:	N 46° 58' 49.2513" E

Curve Point Data

Description	Station	Northing	Easting
PC:	10+57.387	372238.66	502769.103
RP:		369862.52	504986.414
PT:	19+29.331	372741.43	503478.3

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	15° 22' 18.8310"	Type:	RIGHT
Radius:	3250		
Length:	871.943	Tangent:	438.606
Mid-Ord:	29.198	External:	29.463
Chord:	869.331	Course:	N 54° 39' 58.5249" E

CG N - STH 35 NB C&G FLANGE LT 5+79 - 19+37

Tangent Data

Description	PT Station	Northing	Easting
Start:	5+66.841	371882.09	502419.387
End:	5+74.600	371879.43	502426.676

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.759	Course:	S 69° 56' 10.2589" E

Curve Point Data

Description	Station	Northing	Easting
PC:	5+74.600	371879.43	502426.676
RP:		371575.96	502824.046
PT:	6+58.465	371941.51	502482.916

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 36' 36.7848"	Type:	RIGHT
Radius:	500		
Length:	83.865	Tangent:	42.031
Mid-Ord:	1.757	External:	1.764
Chord:	83.767	Course:	N 42° 10' 27.8590" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	6+58.465	371941.51	502482.916
End:	9+74.582	372157.18	502714.032

Tangent Data

Parameter	Value	Parameter	Value
Length:	316.117	Course:	N 46° 58' 46.2514" E

Curve Point Data

Description	Station	Northing	Easting
PC:	9+74.582	372157.18	502714.032
RP:		369372.4	505312.769
PT:	14+92.714	372483.87	503115.681

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 47' 37.8614"	Type:	RIGHT
Radius:	3809		
Length:	518.132	Tangent:	259.466
Mid-Ord:	8.807	External:	8.827
Chord:	517.733	Course:	N 50° 52' 34.4578" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	14+92.714	372483.87	503115.681
End:	16+40.724	372576.55	503231.082

Tangent Data

Parameter	Value	Parameter	Value
Length:	148.009	Course:	N 51° 13' 54.5344" E

CG N - STH 35 NB C&G FLANGE LT 5+79 - 19+37 (CONTINUED)

Curve Point Data

Description	Station	Northing	Easting
PC:	16+40.724	372576.55	503231.082
RP:		369348.6	505327.547
PT:	19+36.730	372728.08	503485.278

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 24' 22.7408"	Type:	RIGHT
Radius:	3849.002		
Length:	296.006	Tangent:	148.076
Mid-Ord:	2.845	External:	2.847
Chord:	295.934	Course:	N 59° 12' 01.8496" E

CG O - STH 35 SB C&G FLANGE LT 0+00 - 0+62

Curve Point Data

Description	Station	Northing	Easting
PC:	0+00.000	372751.15	503434.755
RP:		372786.39	503415.826
PT:	0+62.330	372804.88	503451.299

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	89° 16' 49.5643"	Type:	LEFT
Radius:	40		
Length:	62.33	Tangent:	39.501
Mid-Ord:	11.539	External:	16.217
Chord:	56.212	Course:	N 17° 07' 00.6115" E

2

CG P - STH 35 NB C&G FLANGE TURN LANE RT 304+72 - 308+93

Tangent Data

Description	PT Station	Northing	Easting
Start:	304+72.274	371549.75	502572.769
End:	305+62.806	371623.48	502520.231

Tangent Data

Parameter	Value	Parameter	Value
Length:	90.532	Course:	N 35° 28' 21.8972" W

Curve Point Data

Description	Station	Northing	Easting
PC:	305+62.806	371623.48	502520.231
RP:		371876.48	502951.497
PCC:	307+94.654	371843.08	502452.613

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	26° 34' 03.9918"	Type:	RIGHT
Radius:	500		
Length:	231.848	Tangent:	118.047
Mid-Ord:	13.378	External:	13.746
Chord:	229.776	Course:	N 17° 06' 51.2089" W

Curve Point Data

Description	Station	Northing	Easting
PCC:	307+94.654	371843.08	502452.613
RP:		371848.76	502537.424
PT:	308+70.032	371910.9	502479.431

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	50° 48' 35.4645"	Type:	RIGHT
Radius:	85		
Length:	75.378	Tangent:	40.37
Mid-Ord:	8.22	External:	9.1
Chord:	72.932	Course:	N 21° 34' 28.5192" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	308+70.032	371910.9	502479.431
End:	308+93.019	371926.59	502496.238

Tangent Data

Parameter	Value	Parameter	Value
Length:	22.988	Course:	N 46° 58' 46.2514" E

CG Q - MAIN ST NB C&G FLANGE RT 5+71 - 10+13

Curve Point Data

Description	Station	Northing	Easting
PC:	5+70.740	371973.47	502458.534
RP:		372050.24	502386.897
PCC:	6+43.898	371945.39	502392.575

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	39° 55' 13.1145"	Type:	RIGHT
Radius:	105		
Length:	73.158	Tangent:	38.134
Mid-Ord:	6.307	External:	6.71
Chord:	71.687	Course:	S 66° 56' 22.8087" W

Curve Point Data

Description	Station	Northing	Easting
PCC:	6+43.898	371945.39	502392.575
RP:		372005.3	502389.33
PCC:	6+97.199	371965	502344.883

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	50° 53' 56.0813"	Type:	RIGHT
Radius:	60		
Length:	53.301	Tangent:	28.554
Mid-Ord:	5.822	External:	6.448
Chord:	51.566	Course:	N 67° 39' 02.5934" W

Curve Point Data

Description	Station	Northing	Easting
PCC:	6+97.199	371965	502344.883
RP:		372599.79	503044.929
PCC:	9+73.181	372193.43	502191.761

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	16° 43' 58.5582"	Type:	RIGHT
Radius:	945		
Length:	275.982	Tangent:	138.98
Mid-Ord:	10.057	External:	10.165
Chord:	275.003	Course:	N 33° 50' 05.2736" W

Curve Point Data

Description	Station	Northing	Easting
PCC:	9+73.181	372193.43	502191.761
RP:		372202.03	502209.818
PT:	10+12.898	372222.02	502209.229

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	113° 46' 47.3082"	Type:	RIGHT
Radius:	20		
Length:	39.717	Tangent:	30.668
Mid-Ord:	9.075	External:	16.613
Chord:	33.505	Course:	N 31° 25' 17.6596" E

CG R - STH35/MAIN ST RAB C&G FLANGE NORTH 309+87 - 310+17

Curve Point Data

Description	Station	Northing	Easting
PC:	309+84.160	371938.71	502285.922
RP:		371865.28	502333.516
PT:	310+20.069	371951.6	502319.167

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	23° 30' 47.7675"	Type:	RIGHT
Radius:	87.5		
Length:	35.909	Tangent:	18.211
Mid-Ord:	1.836	External:	1.875
Chord:	35.657	Course:	N 68° 48' 15.8140" E

CG S - STH 35 SB C&G FLANGE LT -7+37 - 13.98

Curve Point Data

Description	Station	Northing	Easting
PC:	-737.898	373548.51	503467.715
RP:		373508.18	503472.027
PT:	-679.153	373508.83	503431.469

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	82° 58' 36.8577"	Type:	LEFT
Radius:	40.563		
Length:	58.745	Tangent:	35.873
Mid-Ord:	10.178	External:	13.587
Chord:	53.744	Course:	S 42° 24' 31.4980" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	-679.153	373508.83	503431.469
End:	-599.36	373429.05	503430.187

Tangent Data

Parameter	Value	Parameter	Value
Length:	79.793	Course:	S 00° 55' 13.0692" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	-599.36	373429.05	503430.187
End:	-223.697	373053.39	503428.865

Tangent Data

Parameter	Value	Parameter	Value
Length:	375.664	Course:	S 00° 12' 05.8441" W

Curve Point Data

Description	Station	Northing	Easting
PC:	-223.697	373053.39	503428.865
RP:		373051.64	503924.862
PCC:	0+-57.787	372890.46	503455.782

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	19° 09' 54.5029"	Type:	LEFT
Radius:	496		
Length:	165.909	Tangent:	83.737
Mid-Ord:	6.921	External:	7.019
Chord:	165.137	Course:	S 09° 22' 51.4074" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	0+-57.787	372890.46	503455.782
RP:		372987.95	503739.5
PCC:	0+00.000	372837.95	503479.693

CG S - STH 35 SB C&G FLANGE LT -7+37 - 13.98 (CONTINUED)

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	11° 02' 11.7537"	Type:	LEFT
Radius:	300		
Length:	57.787	Tangent:	28.983
Mid-Ord:	1.39	External:	1.397
Chord:	57.698	Course:	S 24° 28' 54.5357" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	0+00.000	372837.95	503479.693
RP:		372867.95	503531.654
PCC:	0+89.880	372813.94	503557.795

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	85° 49' 44.1307"	Type:	LEFT
Radius:	60		
Length:	89.88	Tangent:	55.784
Mid-Ord:	16.058	External:	21.926
Chord:	81.709	Course:	S 72° 54' 52.4779" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	0+89.880	372813.94	503557.795
RP:		369862.52	504986.414
PT:	1+77.287	372850.97	503636.968

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 31' 38.3010"	Type:	RIGHT
Radius:	3279		
Length:	87.407	Tangent:	43.706
Mid-Ord:	0.291	External:	0.291
Chord:	87.404	Course:	N 64° 56' 04.6073" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	1+77.287	372850.97	503636.968
End:	3+88.087	372937.72	503829.089

Tangent Data

Parameter	Value	Parameter	Value
Length:	210.8	Course:	N 65° 41' 53.7578" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	3+88.087	372937.72	503829.089
End:	5+26.026	372984.29	503958.933

CG S - STH 35 SB C&G FLANGE LT -7+37 - 13.98 (CONTINUED)

Tangent Data

Parameter	Value	Parameter	Value
Length:	137.939	Course:	N 70° 16' 19.8743" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	5+26.026	372984.29	503958.933
End:	6+66.326	373042.03	504086.801

Tangent Data

Parameter	Value	Parameter	Value
Length:	140.3	Course:	N 65° 41' 53.7578" E

Curve Point Data

Description	Station	Northing	Easting
PC:	6+66.326	373042.03	504086.801
RP:		373725.57	503778.145
PT:	7+97.873	373106.37	504201.342

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 02' 57.8627"	Type:	LEFT
Radius:	750		
Length:	131.546	Tangent:	65.942
Mid-Ord:	2.882	External:	2.893
Chord:	131.378	Course:	N 60° 40' 24.8264" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	7+97.873	373106.37	504201.342
End:	8+58.448	373140.55	504251.353

Tangent Data

Parameter	Value	Parameter	Value
Length:	60.576	Course:	N 55° 38' 55.8951" E

Curve Point Data

Description	Station	Northing	Easting
PC:	8+58.448	373140.55	504251.353
RP:		372521.36	504674.55
PCC:	9+74.068	373198.19	504351.449

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	08° 49' 57.5900"	Type:	RIGHT
Radius:	750		
Length:	115.619	Tangent:	57.924
Mid-Ord:	2.227	External:	2.233
Chord:	115.505	Course:	N 60° 03' 54.6856" E

CG S - STH 35 SB C&G FLANGE LT -7+37 - 13.98 (CONTINUED)

Curve Point Data

Description	Station	Northing	Easting
PCC:	9+74.068	373198.19	504351.449
RP:		373265.88	504319.139
PCC:	10+51.630	373259.04	504393.827

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	59° 15' 12.5401"	Type:	LEFT
Radius:	75		
Length:	77.563	Tangent:	42.652
Mid-Ord:	9.805	External:	11.28
Chord:	74.152	Course:	N 34° 51' 17.2105" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	10+51.630	373259.04	504393.827
RP:		373325.92	503662.88
PT:	11+43.517	373350.83	504396.457

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 10' 21.6155"	Type:	LEFT
Radius:	734		
Length:	91.887	Tangent:	46.004
Mid-Ord:	1.437	External:	1.44
Chord:	91.827	Course:	N 01° 38' 30.1327" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	11+43.517	373350.83	504396.457
End:	13+98.126	373605.29	504387.817

Tangent Data

Parameter	Value	Parameter	Value
Length:	254.609	Course:	N 01° 56' 40.6751" W

CG T - MAIN ST SB C&G FLANGE RT 309+91 - 312+52

Tangent Data

Description	PT Station	Northing	Easting
Start:	309+84.160	371938.71	502285.922
End:	309+88.981	371941.12	502281.748

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.821	Course:	N 59° 58' 08.5911" W

Curve Point Data

Description	Station	Northing	Easting
PC:	309+88.981	371941.12	502281.748
RP:		371946.12	502178.87
PT:	310+52.115	372001.22	502265.896

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	35° 07' 10.3888"	Type:	LEFT
Radius:	103		
Length:	63.134	Tangent:	32.594
Mid-Ord:	4.8	External:	5.034
Chord:	62.15	Course:	N 14° 46' 36.4210" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	310+52.115	372001.22	502265.896
End:	311+22.731	372060.88	502228.125

Tangent Data

Parameter	Value	Parameter	Value
Length:	70.616	Course:	N 32° 20' 11.6154" W

Curve Point Data

Description	Station	Northing	Easting
PC:	311+22.731	372060.88	502228.125
RP:		372479.17	502888.853
PT:	312+52.007	372175.31	502168.298

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 28' 18.5660"	Type:	RIGHT
Radius:	782		
Length:	129.276	Tangent:	64.786
Mid-Ord:	2.67	External:	2.679
Chord:	129.129	Course:	N 27° 36' 02.3324" W

CG U - STH 35 SB C&G FLANGE RT 20+31 - 29+62

Curve Point Data

Description	Station	Northing	Easting
PC:	20+30.730	372776.27	503574.07
RP:		369862.52	504986.414
PT:	21+18.809	372813.6	503653.842

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	01° 33' 30.7293"	Type:	RIGHT
Radius:	3238		
Length:	88.079	Tangent:	44.042
Mid-Ord:	0.299	External:	0.3
Chord:	88.076	Course:	N 64° 55' 08.3931" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	21+18.809	372813.6	503653.842
End:	23+29.609	372900.36	503845.963

Tangent Data

Parameter	Value	Parameter	Value
Length:	210.8	Course:	N 65° 41' 53.7578" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	23+29.609	372900.36	503845.963
End:	24+80.088	372973.03	503977.733

Tangent Data

Parameter	Value	Parameter	Value
Length:	150.479	Course:	N 61° 07' 27.6412" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	24+80.088	372973.03	503977.733
End:	26+07.888	373025.62	504094.209

Tangent Data

Parameter	Value	Parameter	Value
Length:	127.8	Course:	N 65° 41' 53.7578" E

Curve Point Data

Description	Station	Northing	Easting
PC:	26+07.888	373025.62	504094.209
RP:		373725.57	503778.145
PT:	27+42.592	373091.51	504211.499

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 02' 57.8627"	Type:	LEFT
Radius:	768		
Length:	134.704	Tangent:	67.525
Mid-Ord:	2.951	External:	2.963
Chord:	134.531	Course:	N 60° 40' 24.8264" E

CG U - STH 35 SB C&G FLANGE RT 20+31 - 29+62 (CONTINUED)

Tangent Data

Description	PT Station	Northing	Easting
Start:	27+42.592	373091.51	504211.499
End:	28+03.167	373125.69	504261.51

Tangent Data

Parameter	Value	Parameter	Value
Length:	60.576	Course:	N 55° 38' 55.8951" E

Curve Point Data

Description	Station	Northing	Easting
PC:	28+03.167	373125.69	504261.51
RP:		372521.33	504674.51
PT:	28+68.410	373160.06	504316.945

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	05° 06' 24.3570"	Type:	RIGHT
Radius:	732		
Length:	65.243	Tangent:	32.643
Mid-Ord:	0.727	External:	0.727
Chord:	65.221	Course:	N 58° 12' 21.8676" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	28+68.410	373160.06	504316.945
End:	28+97.825	373168.34	504345.169

Tangent Data

Parameter	Value	Parameter	Value
Length:	29.414	Course:	N 73° 38' 46.7432" E

Curve Point Data

Description	Station	Northing	Easting
PC:	28+97.825	373168.34	504345.169
RP:		372521.36	504674.55
PT:	29+54.316	373191.98	504396.457

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 27' 29.7747"	Type:	RIGHT
Radius:	726		
Length:	56.491	Tangent:	28.26
Mid-Ord:	0.549	External:	0.55
Chord:	56.477	Course:	N 65° 14' 53.6262" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	29+54.316	373191.98	504396.457
End:	29+61.839	373187.07	504402.149

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.523	Course:	S 49° 10' 19.2427" E

CG V - MAIN ST NB C&G FLANGE LT 309+74 - 312+54

Tangent Data

Description	PT Station	Northing	Easting
Start:	309+73.965	371951.6	502319.167
End:	309+80.960	371958.24	502321.38

Tangent Data

Parameter	Value	Parameter	Value
Length:	6.995	Course:	N 18° 26' 56.7462" E

Curve Point Data

Description	Station	Northing	Easting
PC:	309+80.960	371958.24	502321.38
RP:		372600.63	503044.17
PT:	310+18.222	371986.56	502297.17

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	02° 12' 28.0903"	Type:	RIGHT
Radius:	967		
Length:	37.262	Tangent:	18.633
Mid-Ord:	0.179	External:	0.18
Chord:	37.26	Course:	N 40° 31' 32.3946" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	310+18.222	371986.56	502297.17
End:	310+43.674	372009.2	502285.552

Tangent Data

Parameter	Value	Parameter	Value
Length:	25.452	Course:	N 27° 09' 24.2120" W

Curve Point Data

Description	Station	Northing	Easting
PC:	310+43.674	372009.2	502285.552
RP:		372599.79	503044.929
PT:	312+54.399	372188.33	502175.363

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	12° 33' 02.0384"	Type:	RIGHT
Radius:	962		
Length:	210.725	Tangent:	105.786
Mid-Ord:	5.764	External:	5.799
Chord:	210.304	Course:	N 31° 35' 51.9435" W

CG W - MAIN ST NB C&G FLANGE RT 313+01 - 313+26

Curve Point Data

Description	Station	Northing	Easting
PC:	313+01.160	372243.28	502183.903
RP:		372263.27	502183.313
PT:	313+25.718	372256	502164.684

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	70° 21' 17.0280"	Type:	RIGHT
Radius:	20		
Length:	24.558	Tangent:	14.097
Mid-Ord:	3.653	External:	4.469
Chord:	23.044	Course:	N 56° 30' 40.1723" W

CG X - MAIN ST SB LT C&G FLANGE LT 313+53 - 314+49

Tangent Data

Description	PT Station	Northing	Easting
Start:	313+52.760	372246.81	502042.707
End:	313+76.325	372246.81	502066.272

Tangent Data

Parameter	Value	Parameter	Value
Length:	23.565	Course:	N 90° 00' 00.0000" E

Curve Point Data

Description	Station	Northing	Easting
PC:	313+76.325	372246.81	502066.272
RP:		372286.81	502066.272
PT:	314+49.223	372296.77	502105.012

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	104° 25' 07.1314"	Type:	LEFT
Radius:	40		
Length:	72.898	Tangent:	51.585
Mid-Ord:	15.489	External:	25.276
Chord:	63.22	Course:	N 37° 47' 26.4343" E

CG Y - STH 35 NB C&G FLANGE LT 20+36 - 29+43

Curve Point Data

Description	Station	Northing	Easting
PC:	20+35.500	372764.38	503579.835
RP:		369372.24	505312.434
PT:	22+19.123	372843.93	503745.312

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	02° 45' 43.5551"	Type:	RIGHT
Radius:	3809		
Length:	183.623	Tangent:	91.829
Mid-Ord:	1.106	External:	1.107
Chord:	183.605	Course:	N 64° 19' 28.2235" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	22+19.123	372843.93	503745.312
End:	28+61.101	373108.11	504330.413

Tangent Data

Parameter	Value	Parameter	Value
Length:	641.978	Course:	N 65° 42' 00.6227" E

Curve Point Data

Description	Station	Northing	Easting
PC:	28+61.101	373108.11	504330.413
RP:		372996.01	504381.029
PT:	29+38.037	373116.52	504405.633

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	35° 50' 18.0655"	Type:	RIGHT
Radius:	123		
Length:	76.936	Tangent:	39.773
Mid-Ord:	5.967	External:	6.271
Chord:	75.688	Course:	N 83° 37' 09.6554" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	29+38.037	373116.52	504405.633
End:	29+43.045	373120.52	504408.645

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.008	Course:	N 36° 58' 53.6516" E

2

CG Z - WEST TERM RAB C&G FLANGE WEST 0+00 - 0+69

Curve Point Data

Description	Station	Northing	Easting
PC:	0+000.000	373120.52	504408.645
RP:		373161.65	504485.877
PT:	0+68.605	373187.07	504402.149

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	44° 55' 24.4566"	Type:	RIGHT
Radius:	87.5		
Length:	68.605	Tangent:	36.175
Mid-Ord:	6.638	External:	7.183
Chord:	66.862	Course:	N 05° 34' 30.8542" W

CG AA - STH 35 NB C&G FLANGE TURN LANE RT 27+44 - 30+64

Curve Point Data

Description	Station	Northing	Easting
PC:	27+44.420	373022.13	504241.219
RP:		372566.06	504403.244
PCC:	29+36.541	373049.31	504430.136

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	22° 44' 35.7807"	Type:	RIGHT
Radius:	484		
Length:	192.121	Tangent:	97.342
Mid-Ord:	9.501	External:	9.692
Chord:	190.863	Course:	N 81° 48' 48.6631" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	29+36.541	373049.31	504430.136
RP:		372974.42	504425.969
PCC:	30+13.894	373009.31	504492.361

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	59° 05' 36.3434"	Type:	RIGHT
Radius:	75		
Length:	77.353	Tangent:	42.514
Mid-Ord:	9.753	External:	11.211
Chord:	73.97	Course:	S 57° 16' 05.2749" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	30+13.894	373009.31	504492.361
RP:		374404.83	507148.02
PT:	30+63.923	372965.22	504516.001

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	00° 57' 19.7216"	Type:	LEFT
Radius:	3000		
Length:	50.029	Tangent:	25.015
Mid-Ord:	0.104	External:	0.104
Chord:	50.028	Course:	S 28° 11' 56.9642" E

Description: CG BB - STH 35 NB C&G FLANGE TURN LN LT 27+76 - 29+67

Curve Point Data

Description	Station	Northing	Easting
PC:	27+76.110	373046.55	504264.964
RP:		372566.06	504403.244
PT:	29+62.208	373063.94	504449.171

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	21° 19' 30.9905"	Type:	RIGHT
Radius:	500		
Length:	186.098	Tangent:	94.138
Mid-Ord:	8.633	External:	8.785
Chord:	185.026	Course:	N 84° 36' 27.7011" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	29+62.208	373063.94	504449.171
End:	29+67.357	373068.45	504451.666

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.149	Course:	N 28° 58' 28.3090" E

CG CC - STH 35 NB C&G FLANGE RT 27+76 - 29+87

Tangent Data

Description	PT Station	Northing	Easting
Start:	27+76.110	373056.73	504260.359
End:	28+61.101	373091.7	504337.821

Tangent Data

Parameter	Value	Parameter	Value
Length:	84.991	Course:	N 65° 42' 00.6227" E

Curve Point Data

Description	Station	Northing	Easting
PC:	28+61.101	373091.7	504337.821
RP:		372996.01	504381.029
PCC:	29+46.274	373093.24	504420.663

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	46° 28' 35.5310"	Type:	RIGHT
Radius:	105		
Length:	85.173	Tangent:	45.086
Mid-Ord:	8.518	External:	9.271
Chord:	82.857	Course:	N 88° 56' 18.3882" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	29+46.274	373093.24	504420.663
RP:		373028.42	504394.241
PT:	29+86.522	373068.45	504451.666

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	32° 56' 37.7902"	Type:	RIGHT
Radius:	70		
Length:	40.248	Tangent:	20.698
Mid-Ord:	2.873	External:	2.996
Chord:	39.696	Course:	S 51° 21' 04.9512" E

CG DD - STH 35 WEST TERM RAB C&G FLANGE INSIDE TRUCK APRON 5+00 - 7+86

Curve Point Data

Description	Station	Northing	Easting
PC:	5+00.000	373204.2	504469.763
RP:		373161.65	504485.877
PT:	7+85.866	373204.21	504469.781

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	359° 58' 33.0061"	Type:	LEFT
Radius:	45.5		
Length:	285.866	Tangent:	0.01
Mid-Ord:	91	External:	91
Chord:	0.019	Course:	N 69° 16' 17.5180" E

CG EE - NW RAMP C&G FLANGE TURN LANE RT 180+62 - 182+80

Tangent Data

Description	PT Station	Northing	Easting
Start:	180+61.775	373225.04	504416.805
End:	180+73.010	373230	504406.72

Tangent Data

Parameter	Value	Parameter	Value
Length:	11.235	Course:	N 63° 51' 00.1080" W

Curve Point Data

Description	Station	Northing	Easting
PC:	180+73.010	373230	504406.72
RP:		373325.92	503662.88
PT:	181+94.656	373351.37	504412.448

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 17' 34.9590"	Type:	LEFT
Radius:	750		
Length:	121.646	Tangent:	60.957
Mid-Ord:	2.465	External:	2.473
Chord:	121.512	Course:	N 02° 42' 06.8044" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	181+94.656	373351.37	504412.448
End:	183+25.150	373481.79	504408.02

Tangent Data

Parameter	Value	Parameter	Value
Length:	130.494	Course:	N 01° 56' 40.6751" W

CG FF - NW RAMP C&G FLANGE IT 183+06 - 186+35

Curve Point Data

Description	Station	Northing	Easting
PC:	180+77.090	373225.04	504416.805
RP:		373310.83	504340.216
PT:	182+09.951	373346.28	504449.617

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	66° 11' 40.5039"	Type:	LEFT
Radius:	115		
Length:	132.861	Tangent:	74.96
Mid-Ord:	18.659	External:	22.273
Chord:	125.594	Course:	N 15° 08' 40.0632" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	182+09.951	373346.28	504449.617
End:	183+06.359	373437.99	504419.901

Tangent Data

Parameter	Value	Parameter	Value
Length:	96.408	Course:	N 17° 57' 10.1887" W

Curve Point Data

Description	Station	Northing	Easting
PC:	183+06.359	373437.99	504419.901
RP:		373578.6	504851.583
PT:	186+34.862	373759.02	504434.97

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	41° 27' 26.5304"	Type:	RIGHT
Radius:	454.004		
Length:	328.503	Tangent:	171.814
Mid-Ord:	29.389	External:	31.423
Chord:	321.383	Course:	N 02° 41' 15.2339" E

2

CG GG - NW RAMP C&G FLANGE RT 181+14 - 183+21

Tangent Data

Description	PT Station	Northing	Easting
Start:	181+13.864	373245.73	504461.641
End:	181+19.060	373249.76	504458.365

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.196	Course:	N 39° 05' 18.7235" W

Curve Point Data

Description	Station	Northing	Easting
PC:	181+19.060	373249.76	504458.365
RP:		373310.83	504340.216
PT:	182+24.186	373351.83	504466.74

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	45° 17' 15.3455"	Type:	LEFT
Radius:	133		
Length:	105.126	Tangent:	55.482
Mid-Ord:	10.252	External:	11.108
Chord:	102.41	Course:	N 04° 41' 27.4840" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	182+24.186	373351.83	504466.74
End:	182+70.639	373396.02	504452.422

Tangent Data

Parameter	Value	Parameter	Value
Length:	46.453	Course:	N 17° 57' 10.1904" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	182+70.639	373396.02	504452.422
End:	183+20.639	373444.42	504439.892

Tangent Data

Parameter	Value	Parameter	Value
Length:	50	Course:	N 14° 30' 46.8627" W

CG HH - SW RAMP C&G FLANGE RT 180+90 - 181+23

Tangent Data

Description	PT Station	Northing	Easting
Start:	151+47.350	370287.33	505366.732
End:	154+93.695	370628.07	505304.701

Tangent Data

Parameter	Value	Parameter	Value
Length:	346.345	Course:	N 10° 19' 03.0218" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	154+93.695	370628.07	505304.701
End:	163+93.593	371518.32	505173.308

Tangent Data

Parameter	Value	Parameter	Value
Length:	899.898	Course:	N 08° 23' 44.4167" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	163+93.593	371518.32	505173.308
End:	167+23.067	371843.24	505118.694

Tangent Data

Parameter	Value	Parameter	Value
Length:	329.473	Course:	N 09° 32' 29.6223" W

Curve Point Data

Description	Station	Northing	Easting
PC:	167+23.067	371843.24	505118.694
RP:		371603.32	503691.328
PT:	173+41.208	372412.92	504891.112

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	24° 28' 10.1911"	Type:	LEFT
Radius:	1447.39		
Length:	618.142	Tangent:	313.856
Mid-Ord:	32.874	External:	33.638
Chord:	613.455	Course:	N 21° 46' 34.7179" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	173+41.208	372412.92	504891.112
End:	177+29.956	372735.16	504673.665

Tangent Data

Parameter	Value	Parameter	Value
Length:	388.748	Course:	N 34° 00' 39.8134" W

CG HH - SW RAMP C&G FLANGE RT 180+90 - 181+23 (CONTINUED)

Curve Point Data

Description	Station	Northing	Easting
PC:	177+29.956	372735.16	504673.665
RP:		374404.83	507148.02
PT:	181+16.264	373068.45	504478.877

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 24' 54.0411"	Type:	RIGHT
Radius:	2985		
Length:	386.308	Tangent:	193.424
Mid-Ord:	6.247	External:	6.26
Chord:	386.038	Course:	N 30° 18' 12.7929" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	181+16.264	373068.45	504478.877
End:	181+23.038	373074.22	504482.438

Tangent Data

Parameter	Value	Parameter	Value
Length:	6.774	Course:	N 31° 42' 39.6104" E

2

CG II - STH 35 NB C&G FLANGE RT 30+19 - 34+33

Curve Point Data

Description	Station	Northing	Easting
PC:	30+18.520	373074.22	504482.438
RP:		373161.14	504486.047
PCC:	30+82.133	373094.03	504541.405

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	41° 53' 38.0327"	Type:	LEFT
Radius:	87		
Length:	63.613	Tangent:	33.304
Mid-Ord:	5.75	External:	6.157
Chord:	62.206	Course:	N 71° 25' 49.4197" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	30+82.133	373094.03	504541.405
RP:		372720.81	504847.209
PT:	32+70.742	373182.39	504706.676

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	22° 23' 48.7509"	Type:	RIGHT
Radius:	482.5		
Length:	188.609	Tangent:	95.524
Mid-Ord:	9.187	External:	9.365
Chord:	187.41	Course:	N 61° 52' 05.4174" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	32+70.742	373182.39	504706.676
End:	34+33.180	373229.7	504862.071

Tangent Data

Parameter	Value	Parameter	Value
Length:	162.438	Course:	N 73° 03' 59.6963" E

CG JJ - STH 35 SB C&G FLANGE LT 30+27 - 34+47

Tangent Data

Description	PT Station	Northing	Easting
Start:	30+27.344	373249.76	504458.365
End:	30+32.540	373245.73	504461.641

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.196	Course:	S 39° 05' 18.7235" E

Curve Point Data

Description	Station	Northing	Easting
PC:	30+32.540	373245.73	504461.641
RP:		373161.65	504485.877
PT:	31+07.007	373235.3	504533.124

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	48° 45' 41.3725"	Type:	RIGHT
Radius:	87.5		
Length:	74.467	Tangent:	39.656
Mid-Ord:	7.803	External:	8.567
Chord:	72.24	Course:	S 81° 41' 56.0886" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	31+07.007	373235.3	504533.124
End:	31+34.828	373220.27	504556.54

Tangent Data

Parameter	Value	Parameter	Value
Length:	27.821	Course:	S 57° 19' 05.3800" E

Curve Point Data

Description	Station	Northing	Easting
PC:	31+34.828	373220.27	504556.54
RP:		373308.65	504613.238
PT:	32+25.752	373208.2	504643.82

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	49° 36' 54.9222"	Type:	LEFT
Radius:	105		
Length:	90.925	Tangent:	48.534
Mid-Ord:	9.689	External:	10.674
Chord:	88.11	Course:	S 82° 07' 32.8426" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	32+25.752	373208.2	504643.82
End:	34+47.230	373272.71	504855.695

Tangent Data

Parameter	Value	Parameter	Value
Length:	221.477	Course:	N 73° 03' 59.6963" E

CG KK - WEST TERM RAB C&G FLANGE EAST 0+00 - 0+44

Curve Point Data

Description	Station	Northing	Easting
PC:	0+00.000	373146.68	504572.086
RP:		373161.65	504485.877
PT:	0+43.645	373189.74	504568.744

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	28° 34' 44.8110"	Type:	LEFT
Radius:	87.5		
Length:	43.645	Tangent:	22.286
Mid-Ord:	2.707	External:	2.794
Chord:	43.194	Course:	N 04° 26' 16.7077" W

CG LL - STH 35 NB C&G FLANGE LT 31+18 - 37+57

Tangent Data

Description	PT Station	Northing	Easting
Start:	31+18.400	373146.68	504572.086
End:	31+26.110	373142.52	504578.577

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.71	Course:	S 57° 20' 17.2231" E

Curve Point Data

Description	Station	Northing	Easting
PC:	31+26.110	373142.52	504578.577
RP:		372720.81	504847.209
PT:	32+61.933	373199.13	504701.579

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	15° 33' 50.9721"	Type:	RIGHT
Radius:	500		
Length:	135.823	Tangent:	68.332
Mid-Ord:	4.605	External:	4.648
Chord:	135.406	Course:	N 65° 17' 04.2103" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	32+61.933	373199.13	504701.579
End:	36+74.523	373319.3	505096.28

Tangent Data

Parameter	Value	Parameter	Value
Length:	412.59	Course:	N 73° 03' 59.6963" E

Curve Point Data

Description	Station	Northing	Easting
PC:	36+74.523	373319.3	505096.28
RP:		373202.11	505131.959
PT:	37+52.490	373317.56	505172.918

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	36° 28' 01.1984"	Type:	RIGHT
Radius:	122.5		
Length:	77.967	Tangent:	40.355
Mid-Ord:	6.151	External:	6.476
Chord:	76.658	Course:	S 88° 41' 59.7044" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	37+52.490	373317.56	505172.918
End:	37+57.435	373321.02	505176.453

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.945	Course:	N 45° 37' 42.9406" E

CG MM - STH 35 SB C&G FLANGE RT 31+40 - 37+75

Tangent Data

Description	PT Station	Northing	Easting
Start:	31+39.575	373189.74	504568.744
End:	31+44.520	373193.2	504572.279

Tangent Data

Parameter	Value	Parameter	Value
Length:	4.945	Course:	N 45° 37' 42.9406" E

Curve Point Data

Description	Station	Northing	Easting
PC:	31+44.520	373193.2	504572.279
RP:		373308.65	504613.238
PT:	32+22.487	373191.46	504648.917

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	36° 28' 01.1984"	Type:	LEFT
Radius:	122.5		
Length:	77.967	Tangent:	40.355
Mid-Ord:	6.151	External:	6.476
Chord:	76.658	Course:	S 88° 41' 59.7044" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	32+22.487	373191.46	504648.917
End:	36+90.180	373327.68	505096.332

Tangent Data

Parameter	Value	Parameter	Value
Length:	467.692	Course:	N 73° 03' 59.6963" E

Curve Point Data

Description	Station	Northing	Easting
PC:	36+90.180	373327.68	505096.332
RP:		373559.67	505025.701
PT:	37+67.692	373361.62	505165.65

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 18' 49.7214"	Type:	LEFT
Radius:	242.5		
Length:	77.512	Tangent:	39.089
Mid-Ord:	3.09	External:	3.13
Chord:	77.182	Course:	N 63° 54' 34.8357" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	37+67.692	373361.62	505165.65
End:	37+75.287	373357.89	505172.261

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.595	Course:	S 60° 31' 06.7709" E

CG NN - STH 35 NB C&G FLANGE RT36+63 - 38+81

Tangent Data

Description	PT Station	Northing	Easting
Start:	36+62.890	373293.93	505073.038
End:	36+92.513	373302.56	505101.377

Tangent Data

Parameter	Value	Parameter	Value
Length:	29.623	Course:	N 73° 03' 59.6963" E

Curve Point Data

Description	Station	Northing	Easting
PC:	36+92.513	373302.56	505101.377
RP:		373202.11	505131.959
PT:	37+83.438	373290.49	505188.657

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	49° 36' 54.9236"	Type:	RIGHT
Radius:	105		
Length:	90.925	Tangent:	48.534
Mid-Ord:	9.689	External:	10.674
Chord:	88.11	Course:	S 82° 07' 32.8418" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	37+83.438	373290.49	505188.657
End:	38+11.171	373275.52	505211.999

Tangent Data

Parameter	Value	Parameter	Value
Length:	27.733	Course:	S 57° 19' 05.3800" E

Curve Point Data

Description	Station	Northing	Easting
PC:	38+11.171	373275.52	505211.999
RP:		373349.12	505259.321
PT:	38+81.167	373263.89	505279.144

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	45° 50' 01.2612"	Type:	LEFT
Radius:	87.5		
Length:	69.996	Tangent:	36.992
Mid-Ord:	6.906	External:	7.498
Chord:	68.144	Course:	S 80° 10' 39.5411" E

CG OO - STH 35 SB C&G FLANGE LT 36+82 - 39+17

Tangent Data

Description	PT Station	Northing	Easting
Start:	36+82.490	373336.94	505066.662
End:	37+08.177	373344.42	505091.235

Tangent Data

Parameter	Value	Parameter	Value
Length:	25.687	Course:	N 73° 03' 59.6964" E

Curve Point Data

Description	Station	Northing	Easting
PC:	37+08.177	373344.42	505091.235
RP:		373559.67	505025.701
PT:	38+04.680	373391.17	505174.814

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	24° 34' 27.6830"	Type:	LEFT
Radius:	225		
Length:	96.503	Tangent:	49.005
Mid-Ord:	5.154	External:	5.275
Chord:	95.765	Course:	N 60° 46' 45.8548" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	38+04.680	373391.17	505174.814
End:	38+40.092	373414.64	505201.333

Tangent Data

Parameter	Value	Parameter	Value
Length:	35.412	Course:	N 48° 29' 32.0133" E

Curve Point Data

Description	Station	Northing	Easting
PC:	38+40.092	373414.64	505201.333
RP:		373349.11	505259.321
PT:	39+10.069	373436.37	505265.902

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	45° 49' 16.0661"	Type:	RIGHT
Radius:	87.5		
Length:	69.976	Tangent:	36.98
Mid-Ord:	6.903	External:	7.494
Chord:	68.126	Course:	N 71° 24' 10.1958" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	39+10.069	373436.37	505265.902
End:	39+16.991	373442.19	505269.64

Tangent Data

Parameter	Value	Parameter	Value
Length:	6.922	Course:	N 32° 41' 10.6157" E

CG PP - EAST TERM RAB C&G FLANGE WEST 0+00 - 0+37

Curve Point Data

Description	Station	Northing	Easting
PC:	0+00.000	373321.02	505176.453
RP:		373349.12	505259.321
PT:	0+37.387	373357.89	505172.262

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	24° 28' 51.9527"	Type:	RIGHT
Radius:	87.5		
Length:	37.387	Tangent:	18.983
Mid-Ord:	1.989	External:	2.035
Chord:	37.103	Course:	N 06° 29' 13.1369" W

CG QQ - STH 35 EAST TERM RAB C&G FLANGE INSIDE TRUCK APRON 5+00 - 7+86

Curve Point Data

Description	Station	Northing	Easting
PC:	5+00.000	373394.06	505266.428
RP:		373349.12	505259.321
PT:	7+85.885	373394.06	505266.428

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	359° 59' 59.6223"	Type:	LEFT
Radius:	45.5		
Length:	285.885	Tangent:	0
Mid-Ord:	91	External:	91
Chord:	0	Course:	S 81° 00' 46.1739" E

CG RR - STH 35 EAST TERM RAB C&G FLANGE INSIDE LANE 5+00 - 9+12

Curve Point Data

Description	Station	Northing	Easting
PC:	5+00.000	373413.81	505269.552
RP:		373349.12	505259.321
PT:	9+11.549	373413.81	505269.553

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	359° 59' 59.6223"	Type:	LEFT
Radius:	65.5		
Length:	411.549	Tangent:	0
Mid-Ord:	131	External:	131
Chord:	0	Course:	S 81° 00' 46.1923" E

CG SS - SE RAMP C&G FLANGE LT 179+45 - 181+52

Tangent Data

Description	PT Station	Northing	Easting
Start:	179+45.360	373064.33	505290.517
End:	179+95.360	373113.32	505280.525

Tangent Data

Parameter	Value	Parameter	Value
Length:	50	Course:	N 11° 31' 40.3899" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	179+95.360	373113.32	505280.525
End:	180+41.813	373158.2	505268.527

Tangent Data

Parameter	Value	Parameter	Value
Length:	46.453	Course:	N 14° 58' 03.7174" W

Curve Point Data

Description	Station	Northing	Easting
PC:	180+41.813	373158.2	505268.527
RP:		373192.55	505397.015
PT:	181+46.939	373259.69	505282.206

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	45° 17' 15.3455"	Type:	RIGHT
Radius:	133		
Length:	105.126	Tangent:	55.482
Mid-Ord:	10.252	External:	11.108
Chord:	102.41	Course:	N 07° 40' 33.9553" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	181+46.939	373259.69	505282.206
End:	181+52.135	373263.89	505279.144

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.196	Course:	N 36° 06' 11.5695" W

2

CG TT - SW RAMP C&G FLANGE RT 179+45 - 181+75

Curve Point Data

Description	Station	Northing	Easting
PC:	177+11.760	372838.85	505315.492
RP:		372945.38	504884.461
PT:	179+35.328	373060.06	505313.397

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	28° 51' 00.8860"	Type:	LEFT
Radius:	444		
Length:	223.568	Tangent:	114.207
Mid-Ord:	13.998	External:	14.453
Chord:	221.214	Course:	N 00° 32' 33.2744" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	179+35.328	373060.06	505313.397
End:	180+41.729	373162.85	505285.916

Tangent Data

Parameter	Value	Parameter	Value
Length:	106.401	Course:	N 14° 58' 03.7174" W

Curve Point Data

Description	Station	Northing	Easting
PC:	180+41.729	373162.85	505285.916
RP:		373192.55	505397.015
PT:	181+74.590	373282.21	505324.997

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	66° 11' 40.5039"	Type:	RIGHT
Radius:	115		
Length:	132.861	Tangent:	74.96
Mid-Ord:	18.659	External:	22.273
Chord:	125.594	Course:	N 18° 07' 46.5345" E

CG UU - SE RAMP C&G FLANGE TURN LANE LT 179+45 - 181+63

Tangent Data

Description	PT Station	Northing	Easting
Start:	179+03.700	373029.24	505320.47
End:	180+30.303	373155.82	505322.769

Tangent Data

Parameter	Value	Parameter	Value
Length:	126.603	Course:	N 01° 02' 25.7962" E

Curve Point Data

Description	Station	Northing	Easting
PC:	180+30.303	373155.82	505322.769
RP:		373142.2	506072.645
PT:	181+51.948	373276.74	505334.81

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 17' 34.9590"	Type:	RIGHT
Radius:	750		
Length:	121.646	Tangent:	60.957
Mid-Ord:	2.465	External:	2.473
Chord:	121.512	Course:	N 05° 41' 13.2757" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	181+51.948	373276.74	505334.81
End:	181+63.183	373282.21	505324.997

Tangent Data

Parameter	Value	Parameter	Value
Length:	11.235	Course:	N 60° 51' 53.6367" W

CG VV - SE RAMP C&G FLANGE RT 177+75 - 181+20

Tangent Data

Description	PT Station	Northing	Easting
Start:	177+75.420	372900.76	505334.139
End:	178+46.307	372971.64	505335.427

Tangent Data

Parameter	Value	Parameter	Value
Length:	70.887	Course:	N 01° 02' 25.7962" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	178+46.307	372971.64	505335.427
End:	180+30.233	373155.53	505338.767

Tangent Data

Parameter	Value	Parameter	Value
Length:	183.925	Course:	N 01° 02' 25.7962" E

Curve Point Data

Description	Station	Northing	Easting
PC:	180+30.233	373155.53	505338.767
RP:		373142.2	506072.645
PT:	181+20.232	373245.19	505345.907

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 01' 31.3012"	Type:	RIGHT
Radius:	734		
Length:	90	Tangent:	45.056
Mid-Ord:	1.379	External:	1.382
Chord:	89.944	Course:	N 04° 33' 11.4468" E

2

CG WW - SE RAMP/CTH E C&G FLANGE TURN LANE RT 38+08 - 40+71

Curve Point Data

Description	Station	Northing	Easting
PC:	38+08.087	373155.53	505338.767
RP:		373142.2	506072.645
PCC:	38+98.087	373245.19	505345.907

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 01' 31.3012"	Type:	RIGHT
Radius:	734		
Length:	90	Tangent:	45.056
Mid-Ord:	1.379	External:	1.382
Chord:	89.944	Course:	N 04° 33' 11.4468" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	38+98.087	373245.19	505345.907
RP:		373234.67	505420.165
PT:	39+72.462	373302.58	505388.331

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	56° 49' 06.2123"	Type:	RIGHT
Radius:	75		
Length:	74.375	Tangent:	40.568
Mid-Ord:	9.032	External:	10.269
Chord:	71.365	Course:	N 36° 28' 30.2036" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	39+72.462	373302.58	505388.331
End:	40+70.980	373344.39	505477.535

Tangent Data

Parameter	Value	Parameter	Value
Length:	98.518	Course:	N 64° 53' 03.3098" E

CG XX - EAST TERM RAB C&G FLANGE EAST 0+00 - 0+69

Curve Point Data

Description	Station	Northing	Easting
PC:	0+000.000	373314.48	505339.674
RP:		373349.12	505259.321
PT:	0+69.245	373381.93	505340.434

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	45° 20' 32.2222"	Type:	LEFT
Radius:	87.5		
Length:	69.245	Tangent:	36.55
Mid-Ord:	6.761	External:	7.327
Chord:	67.452	Course:	N 00° 38' 43.7312" E

CG YY - NE RAMP C&G FLANGE LT 182+08 - 182+75

Tangent Data

Description	PT Station	Northing	Easting
Start:	181+86.627	373423.32	505279.143
End:	185+60.110	373756.91	505111.189

Tangent Data

Parameter	Value	Parameter	Value
Length:	373.484	Course:	N 26° 43' 27.1462" W

Curve Point Data

Description	Station	Northing	Easting
PC:	185+60.110	373756.91	505111.189
RP:		375157.71	507893.449
PT:	194+94.071	374641.15	504821.578

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	17° 10' 43.7163"	Type:	RIGHT
Radius:	3115		
Length:	933.96	Tangent:	470.51
Mid-Ord:	34.938	External:	35.334
Chord:	930.466	Course:	N 18° 08' 05.2880" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	194+94.071	374641.15	504821.578
End:	197+92.964	374935.91	504772.013

Tangent Data

Parameter	Value	Parameter	Value
Length:	298.893	Course:	N 09° 32' 43.4298" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	197+92.964	374935.91	504772.013
End:	200+94.369	375234.1	504728.101

Tangent Data

Parameter	Value	Parameter	Value
Length:	301.406	Course:	N 08° 22' 38.2105" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	200+94.369	375234.1	504728.101
End:	201+59.596	375298.86	504720.294

Tangent Data

Parameter	Value	Parameter	Value
Length:	65.227	Course:	N 06° 52' 24.8860" W

Curve Point Data

Description	Station	Northing	Easting
PC:	201+59.596	375298.86	504720.294
RP:		375897.31	509684.842
PT:	205+60.799	375698.67	504688.301

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 35' 49.2179"	Type:	RIGHT
Radius:	5000.488		
Length:	401.204	Tangent:	200.709
Mid-Ord:	4.023	External:	4.026
Chord:	401.096	Course:	N 04° 34' 30.2771" W

CG ZZ - NE RAMP C&G FLANGE RT 182+44 - 183+21

Curve Point Data

Description	Station	Northing	Easting
PC:	182+43.590	373443.23	505293.432
RP:		373711.76	505654.532
PT:	183+21.435	373509.39	505252.6

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 54' 41.6050"	Type:	RIGHT
Radius:	450		
Length:	77.845	Tangent:	39.02
Mid-Ord:	1.682	External:	1.689
Chord:	77.748	Course:	N 31° 40' 47.9487" W

CG AAA - CTH E SB C&G FLANGE LT 39+00 - 41+68

Curve Point Data

Description	Station	Northing	Easting
PC:	39+00.060	373443.23	505293.432
RP:		373511.85	505385.713
PT:	40+50.152	373404.79	505427.703

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	74° 46' 46.6835"	Type:	LEFT
Radius:	115		
Length:	150.092	Tangent:	87.892
Mid-Ord:	23.63	External:	29.741
Chord:	139.664	Course:	S 74° 01' 32.0929" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	40+50.152	373404.79	505427.703
End:	41+28.149	373433.27	505500.313

Tangent Data

Parameter	Value	Parameter	Value
Length:	77.997	Course:	N 68° 34' 57.9498" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	41+28.149	373433.27	505500.313
End:	41+68.149	373449.72	505536.775

Tangent Data

Parameter	Value	Parameter	Value
Length:	40	Course:	N 65° 43' 07.0230" E

2

CG BBB - CTH E EB C&G FLANGE LT 39+28 - 44+71

Tangent Data

Description	PT Station	Northing	Easting
Start:	39+28.091	373314.48	505339.674
End:	39+35.890	373308.93	505345.155

Tangent Data

Parameter	Value	Parameter	Value
Length:	7.799	Course:	S 44° 38' 36.9129" E

Curve Point Data

Description	Station	Northing	Easting
PC:	39+35.890	373308.93	505345.155
RP:		374718.87	504833.222
PT:	40+70.988	373360.69	505469.895

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	05° 09' 37.2995"	Type:	LEFT
Radius:	1500		
Length:	135.098	Tangent:	67.595
Mid-Ord:	1.521	External:	1.522
Chord:	135.052	Course:	N 67° 27' 51.9595" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	40+70.988	373360.69	505469.895
End:	42+40.583	373432.68	505623.455

Tangent Data

Parameter	Value	Parameter	Value
Length:	169.595	Course:	N 64° 53' 03.3098" E

Curve Point Data

Description	Station	Northing	Easting
PC:	42+40.583	373432.68	505623.455
RP:		372273.7	506166.748
PT:	47+90.780	373553.65	506155.855

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	24° 37' 41.2188"	Type:	RIGHT
Radius:	1280		
Length:	550.197	Tangent:	279.414
Mid-Ord:	29.449	External:	30.142
Chord:	545.971	Course:	N 77° 11' 53.9192" E

CG CCC - CTH E EB 39+62 - 44+86

Tangent Data

Description	PT Station	Northing	Easting
Start:	39+62.153	373381.93	505340.434
End:	39+67.200	373385.6	505343.904

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.047	Course:	N 43° 25' 26.5387" E

Curve Point Data

Description	Station	Northing	Easting
PC:	39+67.200	373385.6	505343.904
RP:		373511.85	505385.713
PT:	40+59.442	373388.04	505434.275

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	39° 44' 14.2025"	Type:	LEFT
Radius:	133		
Length:	92.242	Tangent:	48.063
Mid-Ord:	7.917	External:	8.418
Chord:	90.404	Course:	N 88° 27' 11.6665" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	40+59.442	373388.04	505434.275
End:	43+23.142	373484.32	505679.769

Tangent Data

Parameter	Value	Parameter	Value
Length:	263.701	Course:	N 68° 35' 05.0372" E

Curve Point Data

Description	Station	Northing	Easting
PC:	43+23.142	373484.32	505679.769
RP:		372779.63	505936.358
PT:	44+86.041	373523.06	505837.665

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	12° 26' 43.3370"	Type:	RIGHT
Radius:	749.949		
Length:	162.898	Tangent:	81.771
Mid-Ord:	4.419	External:	4.445
Chord:	162.578	Course:	N 76° 12' 54.8858" E

2

CG DDD - 13th St C&G Flange LT STA 0+00 - 0+65			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+00.000	373578.95	506308.167
End:	0+00.554	373578.95	506308.721
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	0.554	Course:	N 89° 30' 44.4182" E
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	0+00.554	373578.95	506308.721
RP:		373618.95	506308.38
PT:	0+65.053	373620.96	506348.33
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	92° 23' 18.2173"	Type:	LEFT
Radius:	40		
Length:	64.499	Tangent:	41.703
Mid-Ord:	12.311	External:	17.785
Chord:	57.735	Course:	N 43° 19' 05.3096" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+65.053	373620.96	506348.33
End:	0+65.320	373621.23	506348.316
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	0.267	Course:	N 02° 52' 33.7991" W

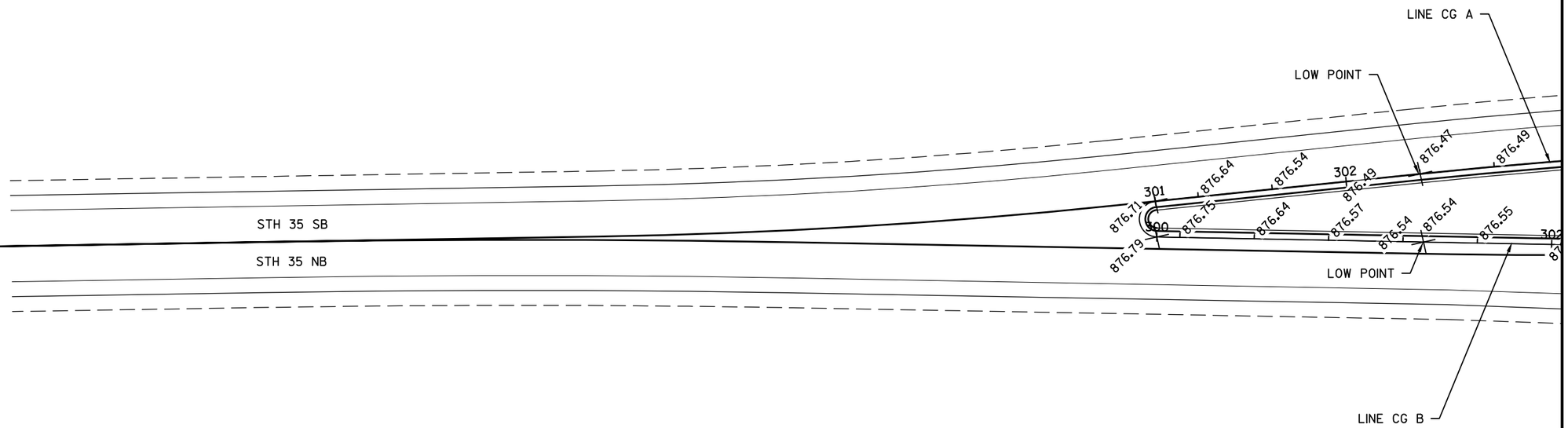
CG EEE - 13th St C&G Flange RT STA 0+00 - 0+94			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+00.000	373580.06	506438.843
End:	0+00.848	373580.05	506437.995
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	0.848	Course:	S 89° 30' 44.4182" W
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	0+00.848	373580.05	506437.995
RP:		373640.05	506437.484
PT:	0+92.595	373637.04	506377.56
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	87° 36' 41.7827"	Type:	RIGHT
Radius:	60		
Length:	91.747	Tangent:	57.55
Mid-Ord:	16.699	External:	23.138
Chord:	83.066	Course:	N 46° 40' 54.6904" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+92.595	373637.04	506377.56
End:	0+94.157	373638.6	506377.481
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	1.562	Course:	N 02° 52' 33.7991" W

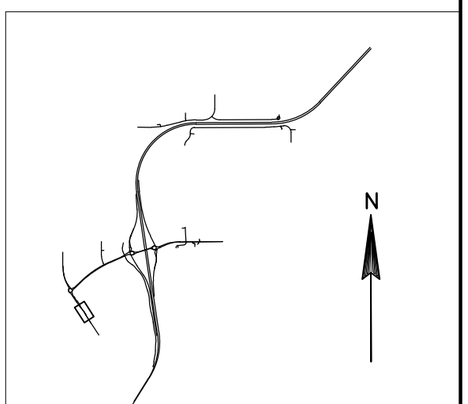
CG FFF - STH 64 WB STA 286+75-289+75			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	286+75.000	378768.11	511274.618
End:	289+75.000	378987.21	511479.542
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	300	Course:	N 43° 05' 04.7447" E

CG GGG - STH 35 WEST TERM RAB C&G FLANGE INSIDE LANE 5+00 - 9+12			
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	5+00.000	373222.9	504462.681
RP:		373161.65	504485.877
PT:	9+11.521	373222.91	504462.706
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	359° 58' 33.0061"	Type:	LEFT
Radius:	65.5		
Length:	411.521	Tangent:	0.014
Mid-Ord:	131	External:	131
Chord:	0.028	Course:	N 69° 16' 17.5176" E

2

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW

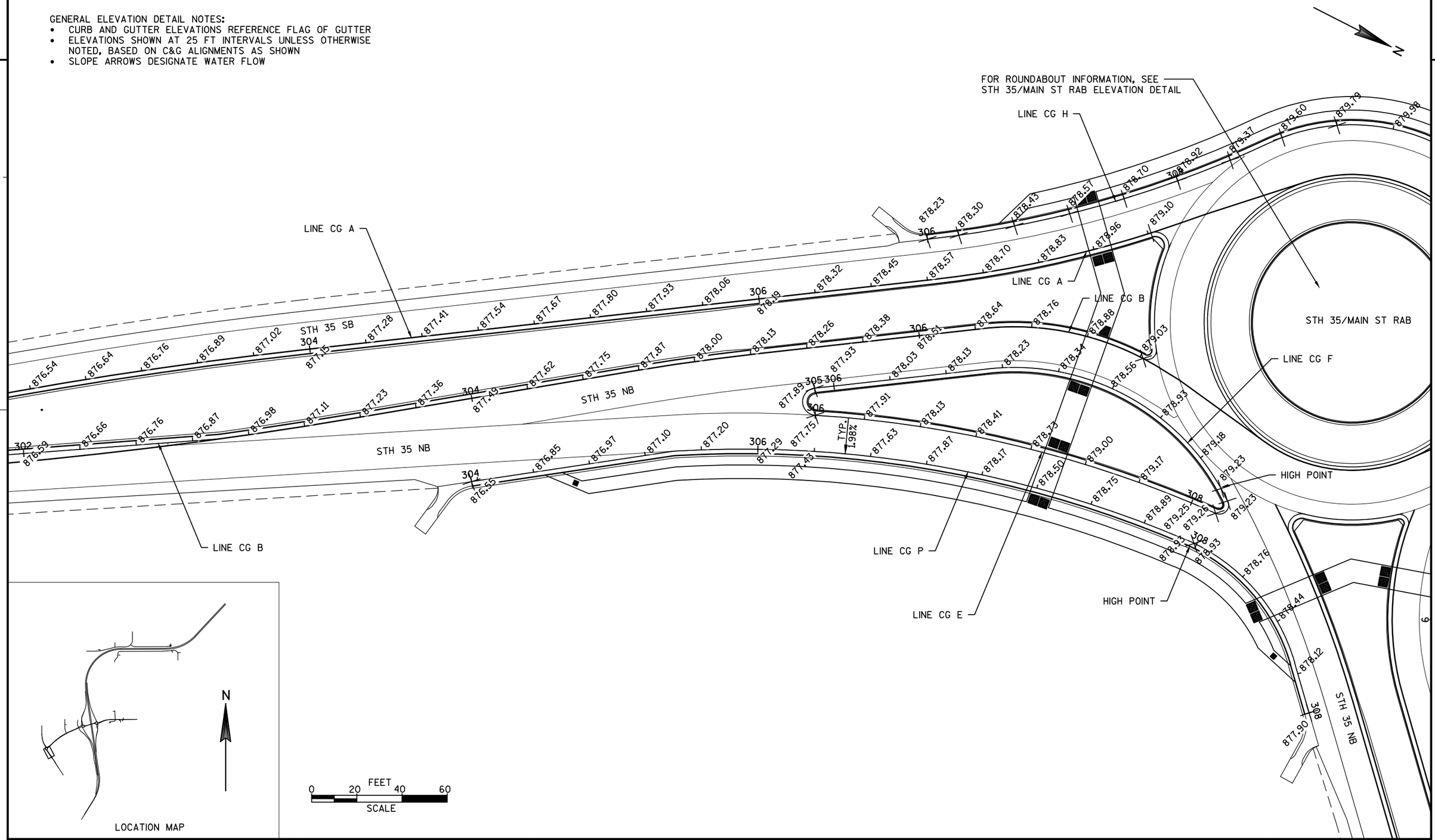




0 20 40 60
FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: STH 35	SHEET 97	E

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW



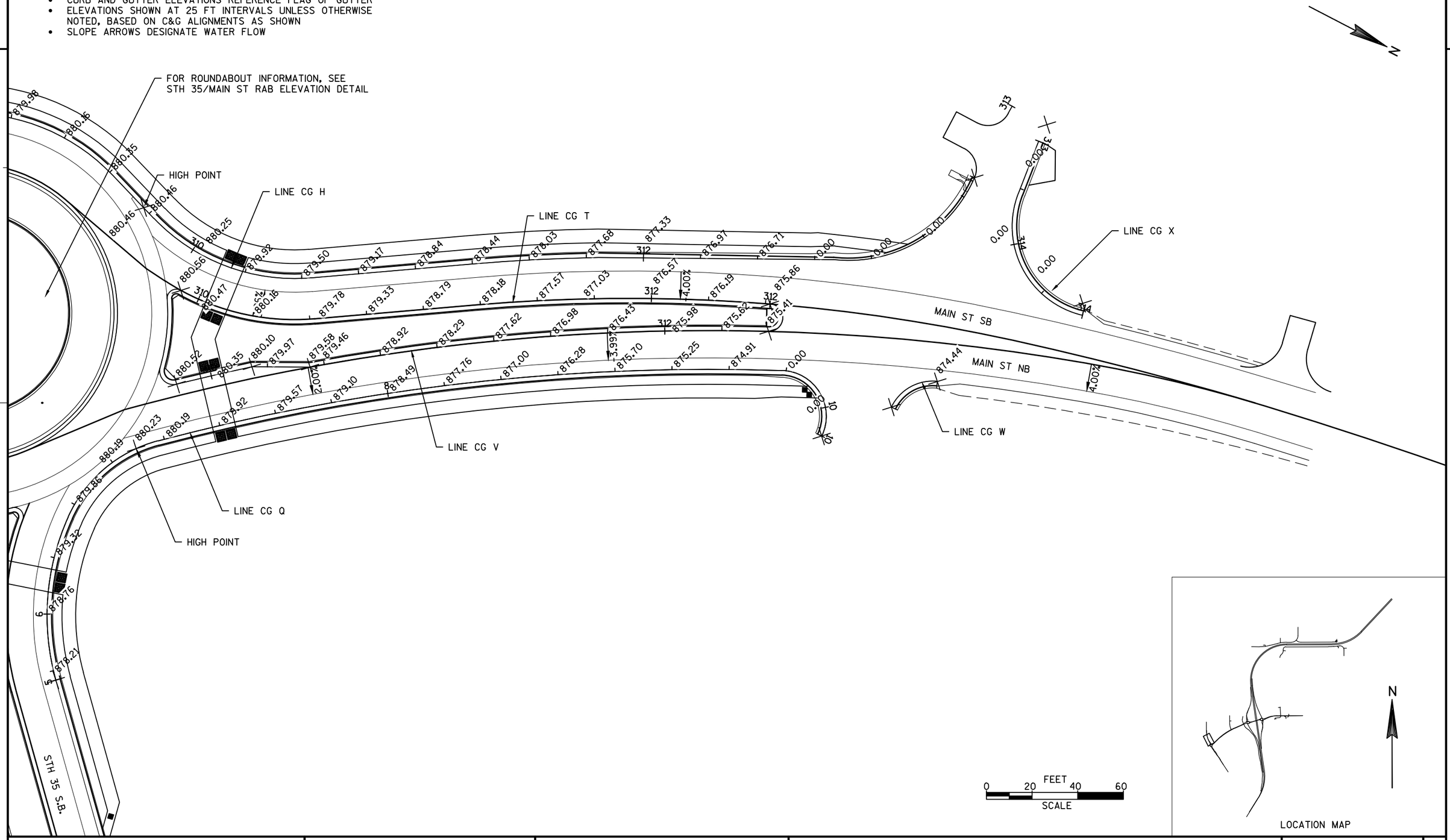
LOCATION MAP

0 20 40 60 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: STH 35 & MAIN ST RAB	SHEET	E

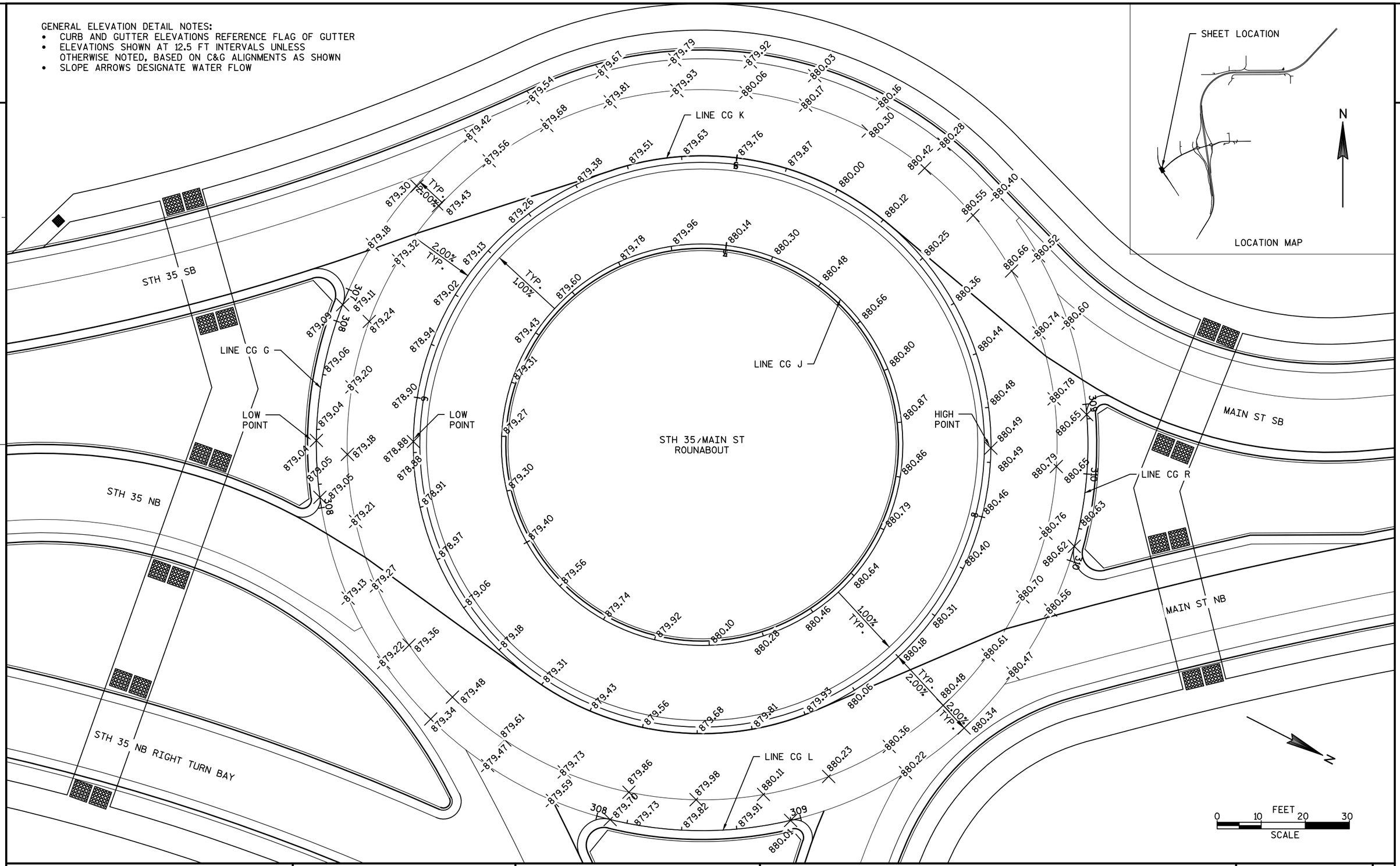
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021150_ED_72.DWG PLOT DATE : 9/25/2014 3:20 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: MAIN ST	SHEET 99	E

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 12.5 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: STH 35/MAIN ST RAB	SHEET 100	E

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW

2

2

STH 35/MAIN ST RAB

LINE CG I

LOW POINT

LINE CG M

879.92 878.21 877.91 877.71 877.60 877.56 877.58

879.41 878.94 878.56 878.27 878.07 877.96 877.94 877.94 878.01

STH 35 SB

878.16 878.31 878.47 878.62 2.00% 878.78 878.93 879.08 879.24 879.39 879.55 879.70 879.86 880.01 2.40% 880.17 880.32

LOW POINT

879.38 879.06 878.69 878.38 878.15 877.99 877.91 877.90 877.91 877.98 878.12 878.27 878.42 878.57 878.72 878.87 879.02 879.17 879.32 879.47 879.62 879.77 879.92 880.07 880.22 880.37

STH 35 NB

2.00% 2.20%

LOW POINT

LINE CG N

0 20 40 60 FEET

SCALE

N

LOCATION MAP

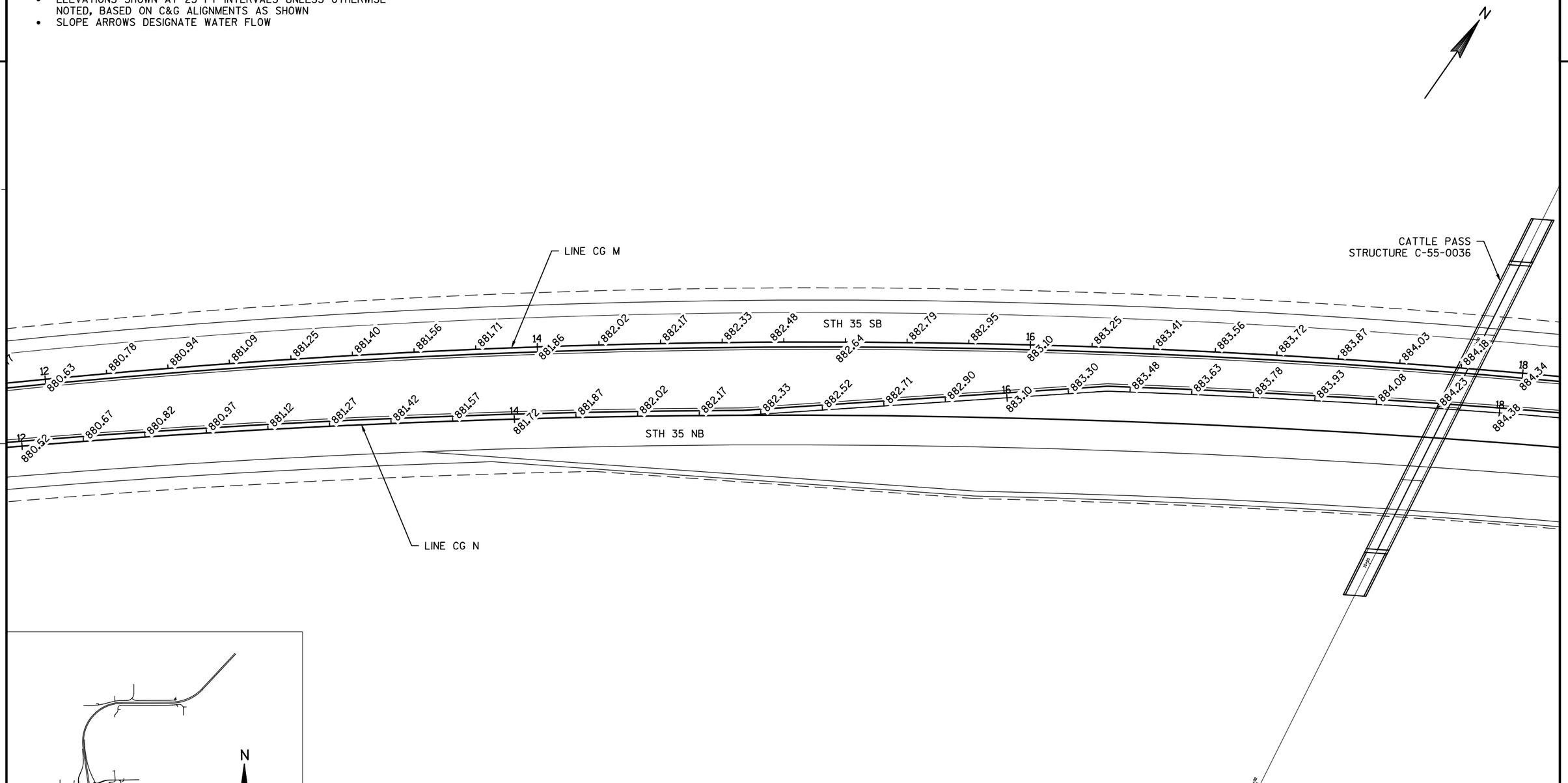
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: STH 35	SHEET 101	E

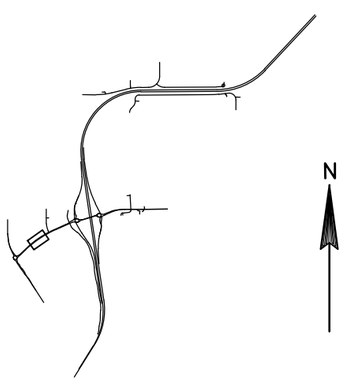
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021151_ED_72.DWG PLOT DATE : 9/25/2014 3:38 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

GENERAL ELEVATION DETAIL NOTES:

- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW





LOCATION MAP

0 20 40 60 FEET

SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: STH 35	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021151_ED_72.DWG PLOT DATE : 9/25/2014 3:39 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW

N

SCHOOL RD

LINE CG O

LINE CG M

LINE CG S

LOW POINT

HIGH POINT

LOW POINT

SHARED USE PATH

LOW POINT

LINE CG U

STH 35 SB

STH 35 NB

LINE CG Y

LINE CG N

LINE CG C

LINE CG D

2.39%

2.00%

2.19%

2.00%

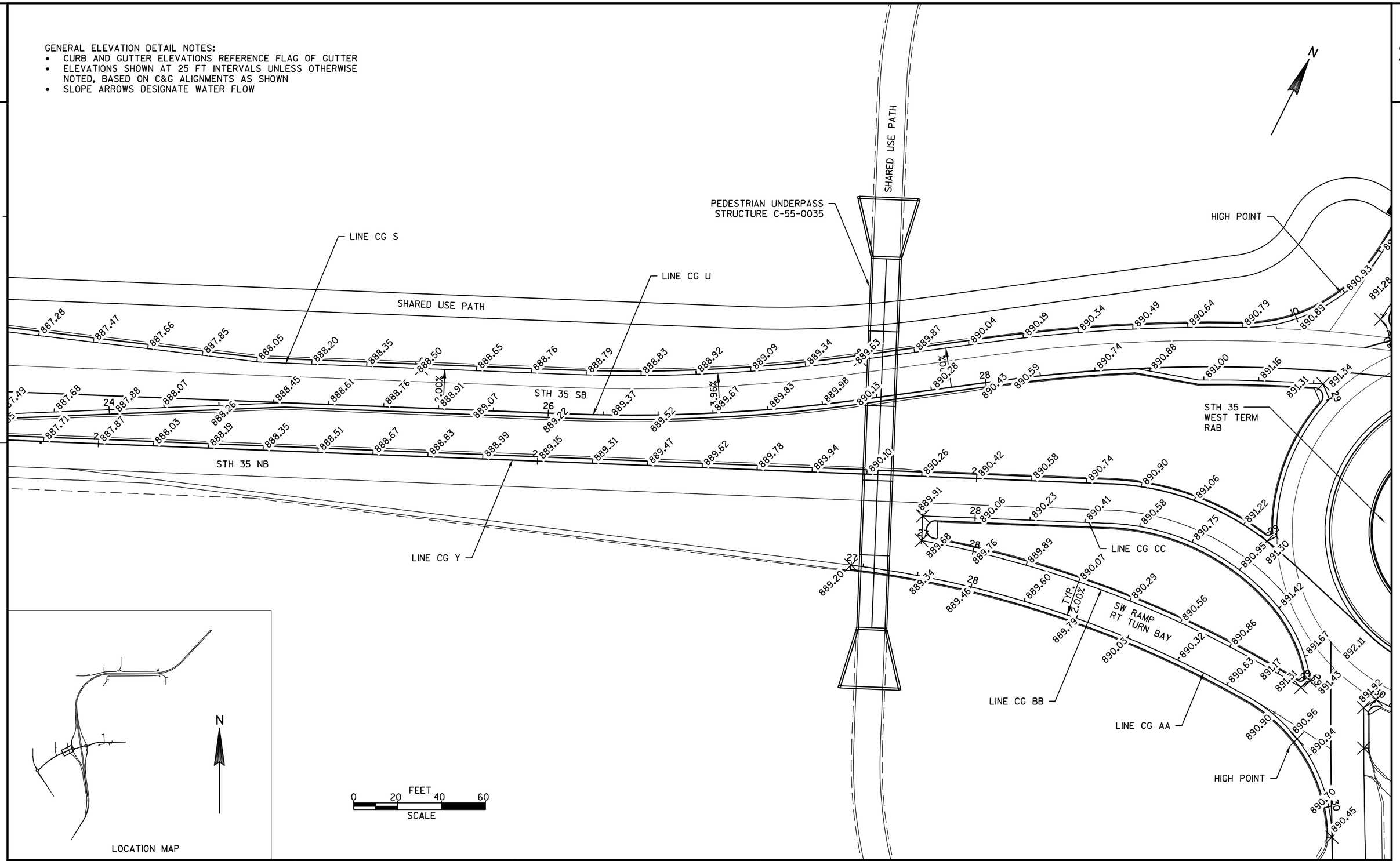
0 20 40 60
FEET
SCALE

N

LOCATION MAP

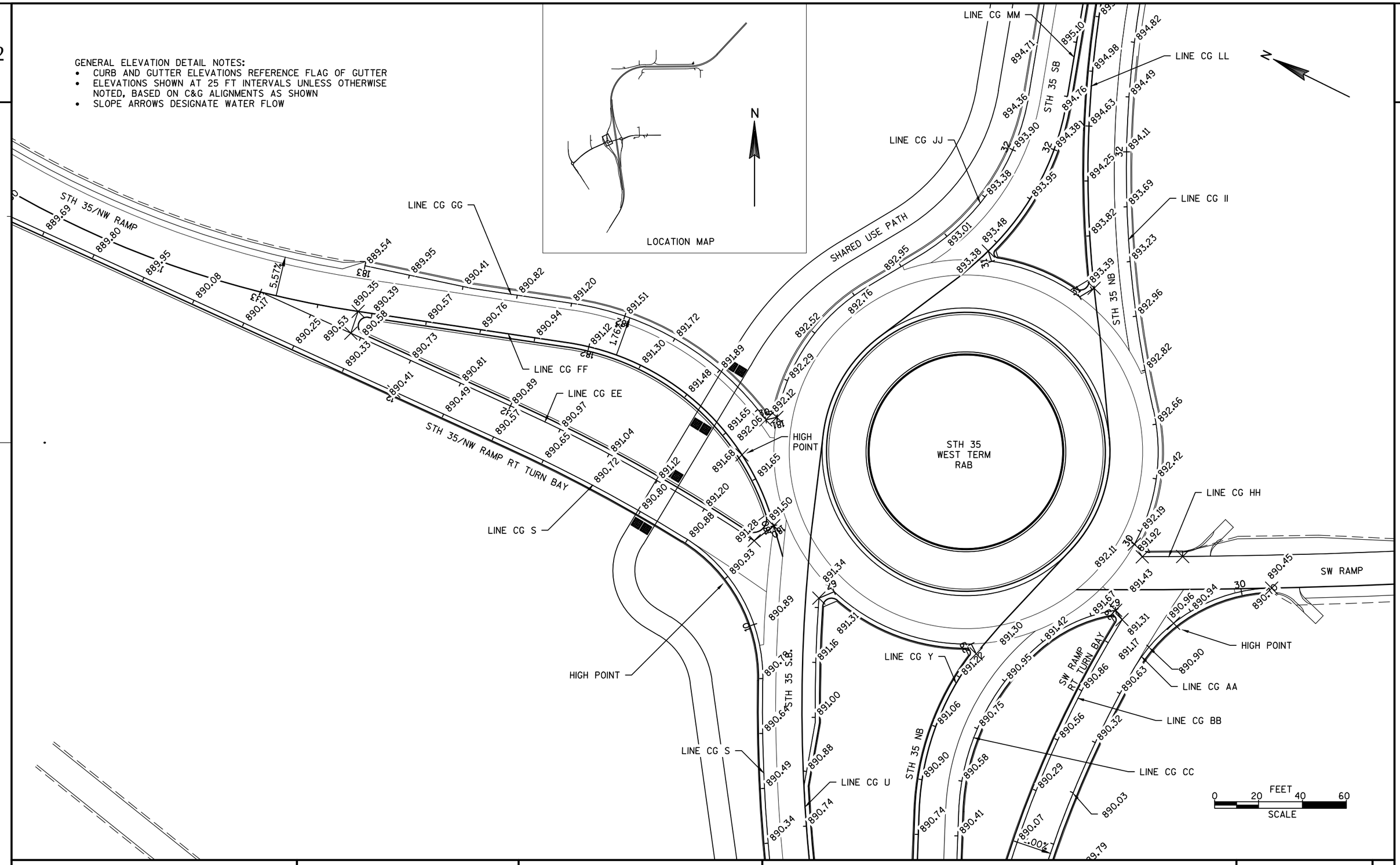
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: STH 35 AT SCHOOL RD	SHEET 103	E

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: STH 35	SHEET 104	E

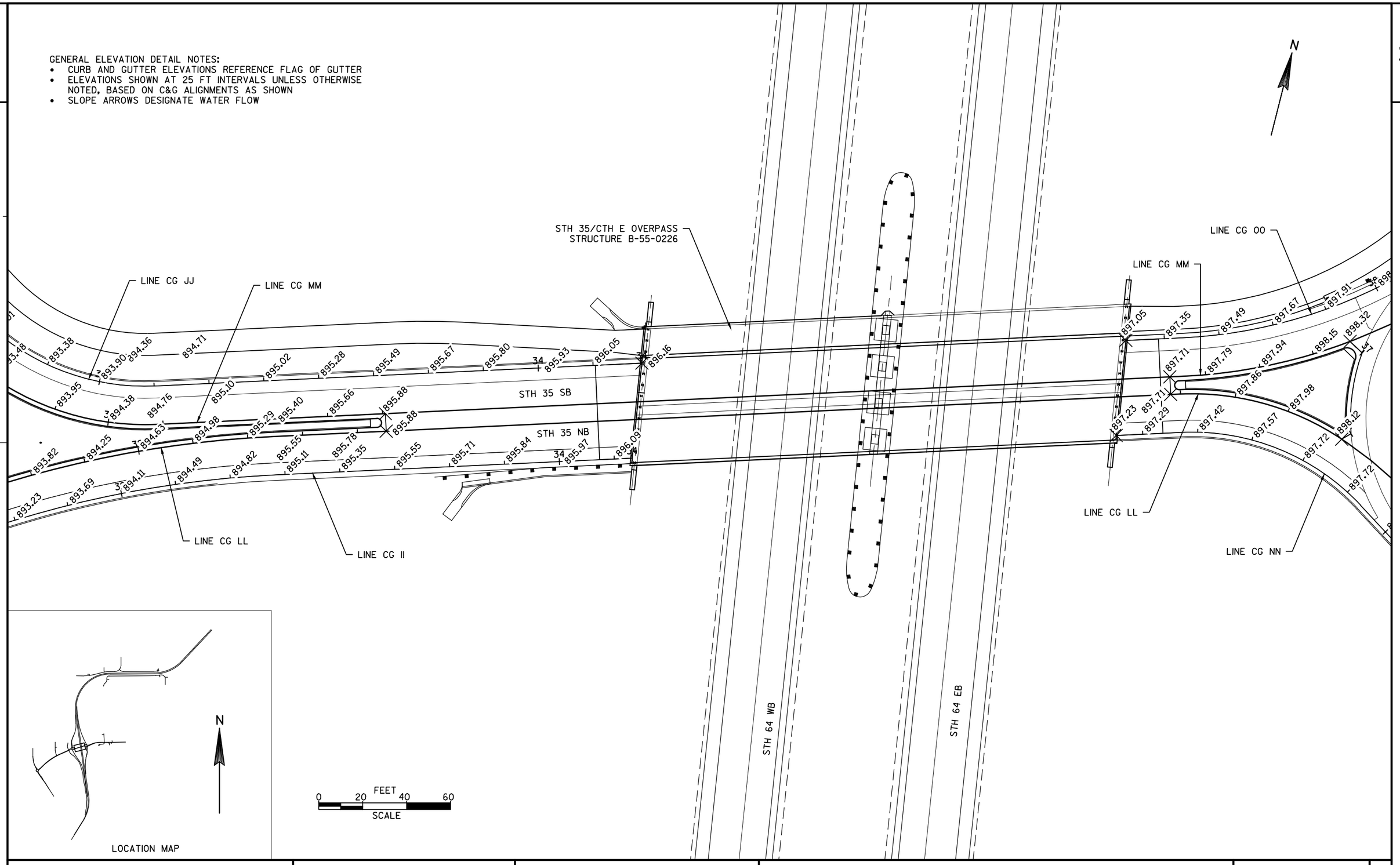
GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVAITON DETAILS: STH 35, WEST TERM RAB, NW RAMP	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021151_ED_72.DWG PLOT DATE : 9/25/2014 3:39 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

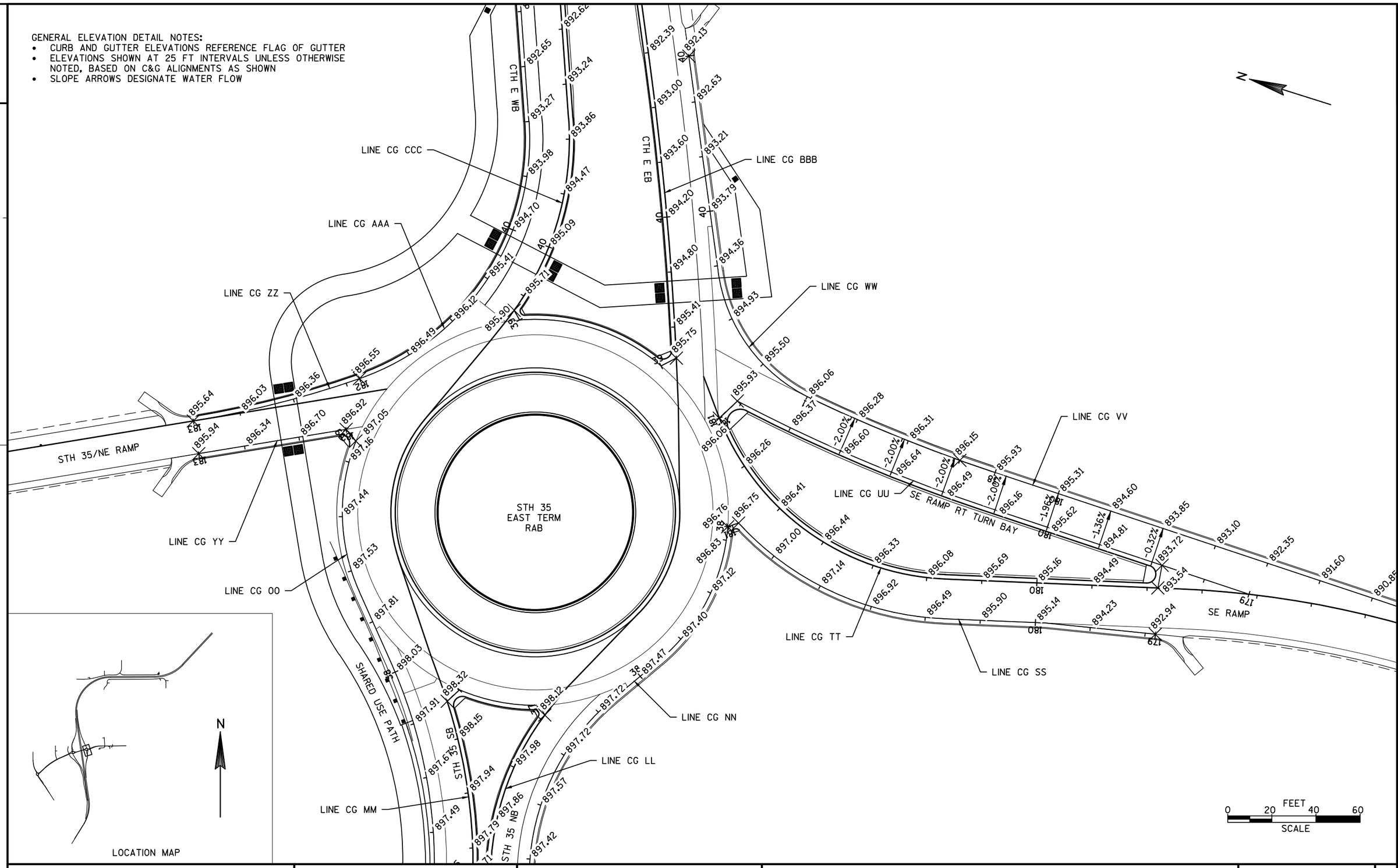
GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: STH 35	SHEET	E

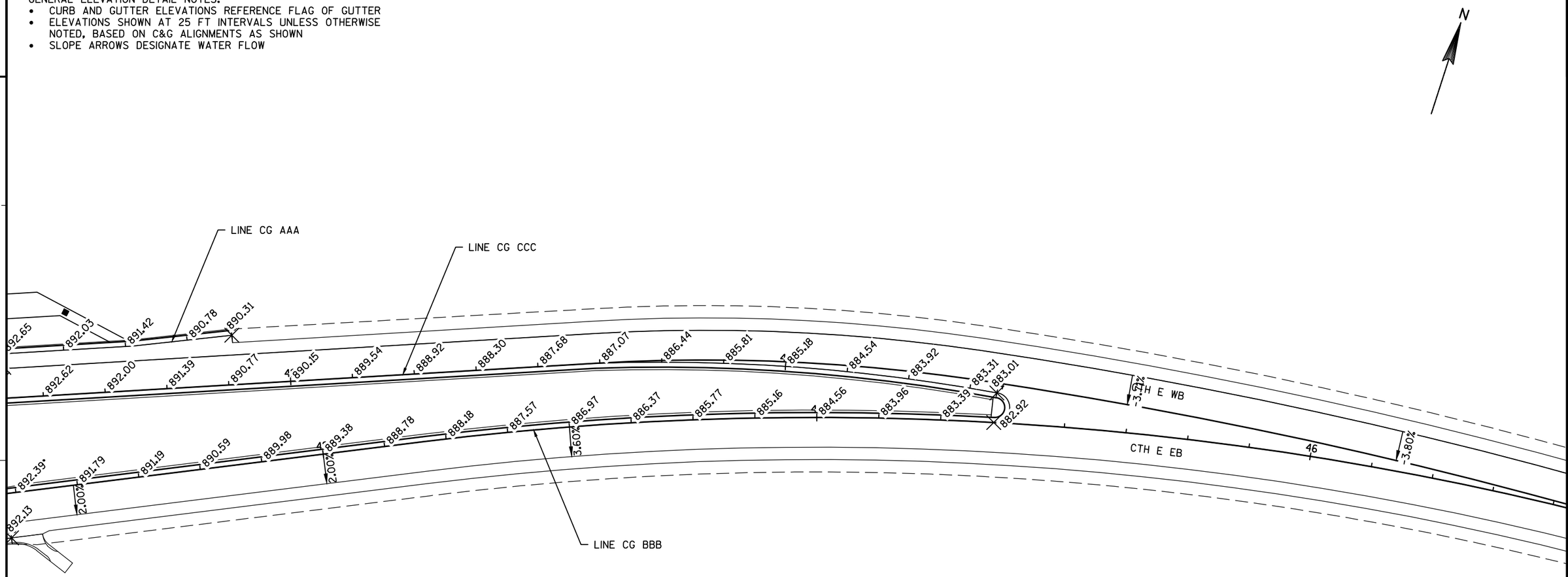
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021151_ED_72.DWG PLOT DATE : 9/25/2014 3:39 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

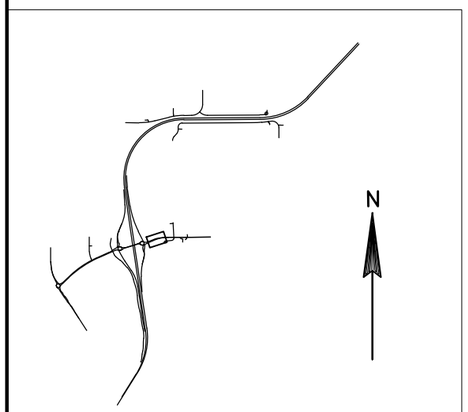
GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: CTH E AND EAST TERM RAB	SHEET 107	E

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW





LOCATION MAP

0 20 40 60
FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: CTH E	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021151_ED_72.DWG PLOT DATE : 9/25/2014 3:39 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW

N

THELEN FARM TRAIL

LINE CG DDD

876.28

876.76

877.34

877.49

LINE CG EEE

875.82

876.44

877.05

877.67

877.92

CTH E WB

3.78%

47

2.00%

CTH E EB

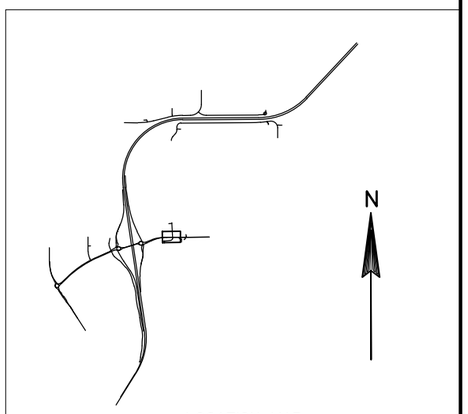
3.61%

2.00%

FIELD ENTRANCE

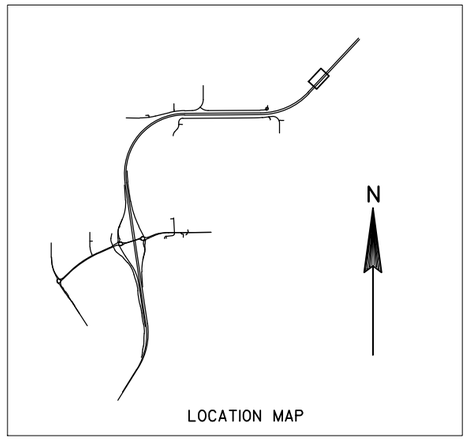
0 20 40 60 FEET

SCALE



LOCATION MAP

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: CTH E AT THELEN FARM TRAIL	SHEET 109	E



LOCATION MAP

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW

N

2

LINE CG FFF

286 918.95 918.68 918.40 918.11 917.81 288 917.50 917.18 916.85 916.51 916.16 915.79 915.42 289 915.04

STH 35/64 WB

STH 35/64 EB

0 20 FEET 40 60
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: STH 35/64 C&G	SHEET 110	E

2

2

N

SCHOOL RD

885.93 886.01 886.69 886.91 887.04 887.11 887.10 887.03 886.88 886.67 886.38 886.03 885.61 885.14 884.66 884.18 883.69 883.21 882.72 882.24 881.75 881.31 880.92 880.62

CG LINE S

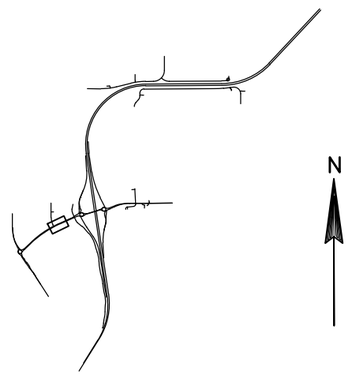
886.38 886.42 886.53 886.42 886.52

CG LINE S

885.49 885.59 2.39% 886.67 885.80 885.74 886.78

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW

0 20 40 60 FEET
SCALE



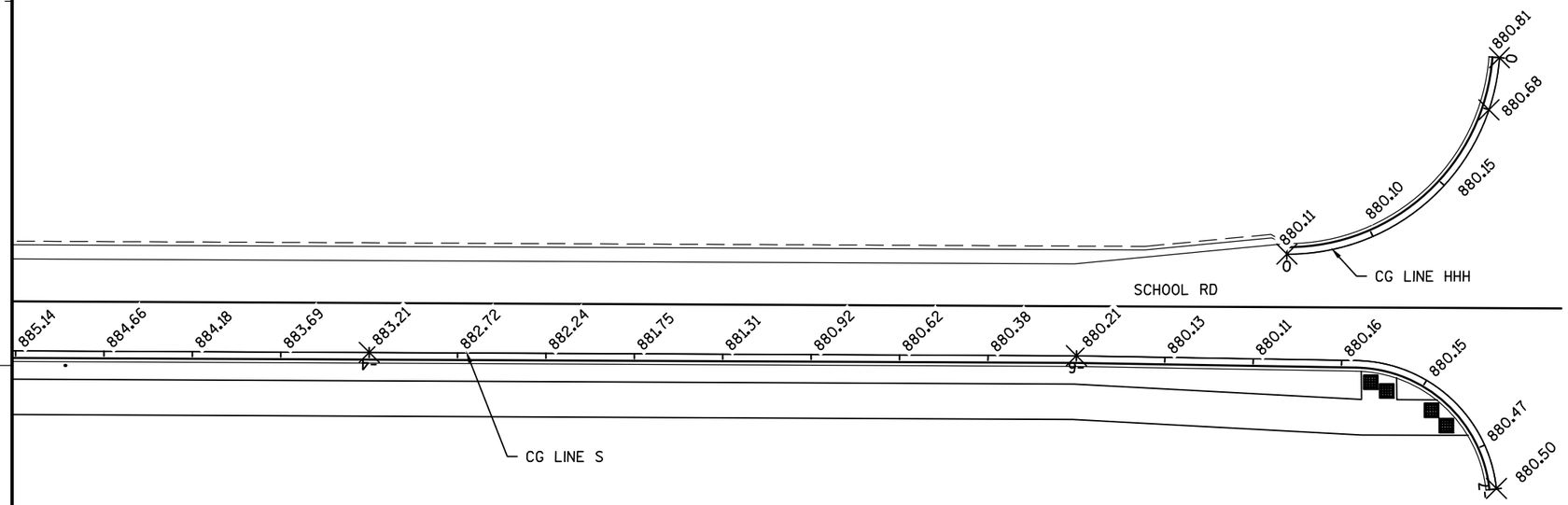
LOCATION MAP

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: SCHOOL ROAD	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021151_ED_72.DWG PLOT DATE : 9/25/2014 3:39 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF

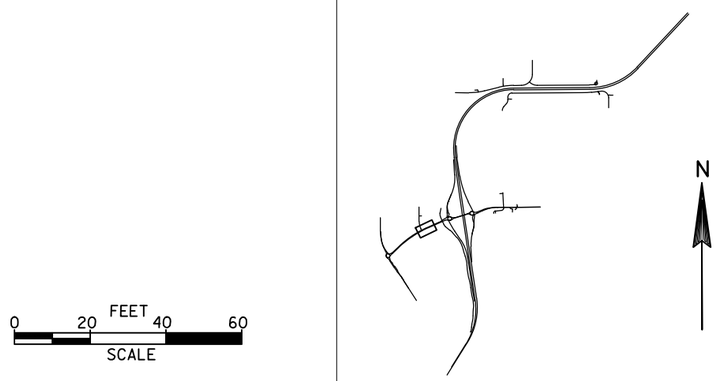
WISDOT/CADDS SHEET 42

2



GENERAL ELEVATION DETAIL NOTES:

- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 25 FT INTERVALS UNLESS OTHERWISE NOTED, BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW



LOCATION MAP

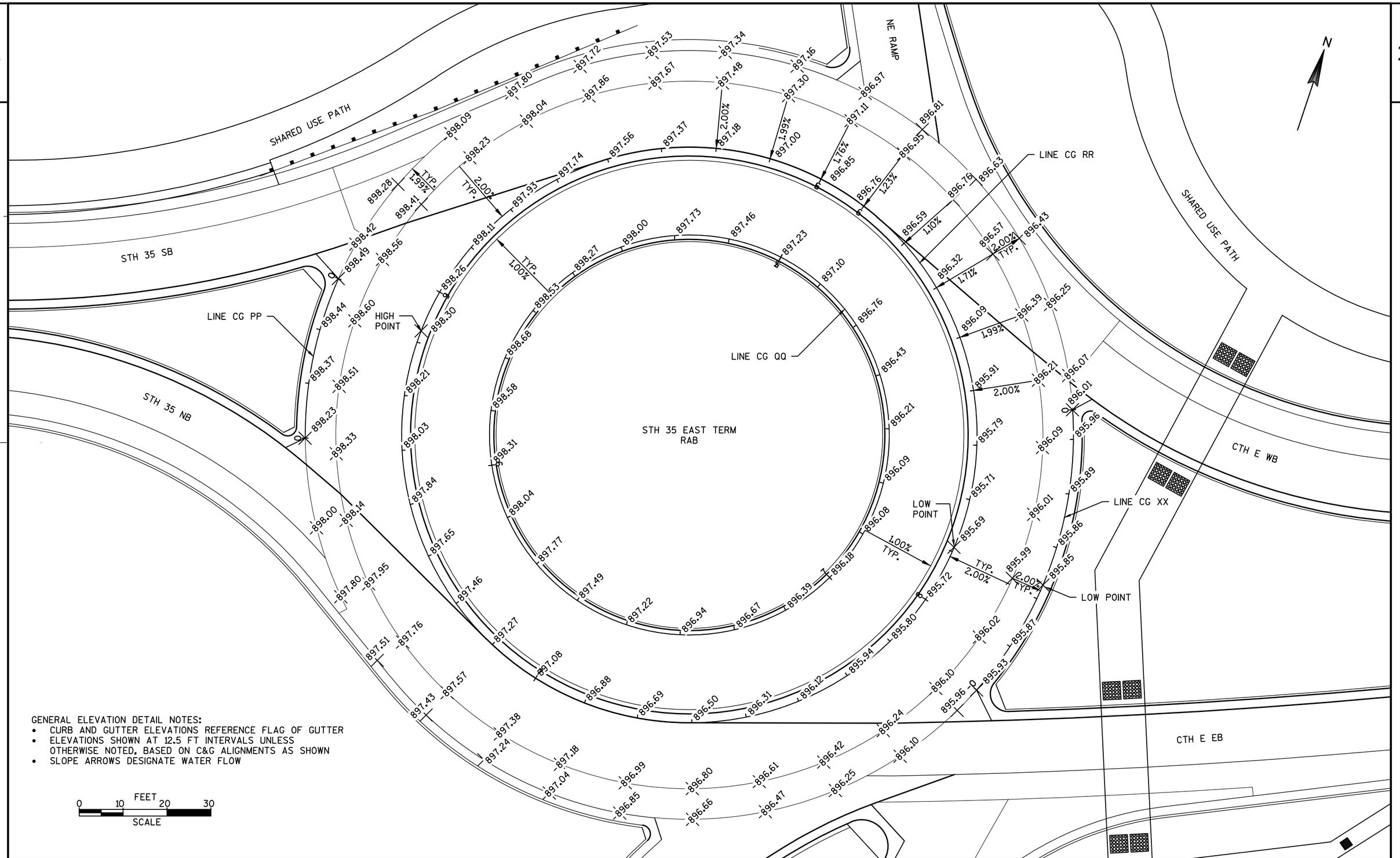
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: SCHOOL ROAD	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021151_ED_72.DWG PLOT DATE : 9/25/2014 3:39 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 40'_XREF

GENERAL ELEVATION DETAIL NOTES:
- CURB AND GUTTER ELEVATIONS REFERENCE FLAG OF GUTTER
- ELEVATIONS SHOWN AT 12.5 FT INTERVALS UNLESS OTHERWISE NOTED. BASED ON C&G ALIGNMENTS AS SHOWN
- SLOPE ARROWS DESIGNATE WATER FLOW

STH 35 SB
NW RAMP
SHARED USE PATH
LINE CG GGG
LINE CG Z
LOW POINT
LOW POINT
LINE CG DD
STH 35 WEST TERM ROUNDABOUT
STH 35 NB
HIGH POINT
LINE CG KK
STH 35 SB
STH 35 NB
STH 35 NB RT TURN BAY TO SW RAMP
SW RAMP
TYP. 2.00%
TYP. 1.00%
2.00%
1.00%
1.09%
1.76%
0.51%
0.79%
1.55%
1.98%
2.00%
N
0 10 20 30 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: WEST TERM ROUNDABOUT	SHEET 113 E



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	ELEVATION DETAILS: STH 35 EAST TERM ROUNDABOUT	SHEET 114 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021162_ED_72.DWG
81100272_PLANSHTS - 021162_ED_72 - 01
PLOT DATE : 9/26/2014 11:52 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 42

LINE A: STH 64 E.B. SUPERELEVATION													
NO.	Superelevation Curve	Start Station	End Station	Length	Left Inside Shoulder	Curve Smoothing(LIS)	REF LINE A	Right Inside Lane	Curve Smoothing(RI)	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
24	Begin Normal Crown	155+20.00'			-4.00%			2.00%		-2.00%	70	-2.00%	
25	Begin Normal Shoulder	156+00.00'			-4.00%			2.00%		-2.00%		-4.00%	70
26	Transition In Region	198+40.00'	202+90.00'	450.000'									
27	End Normal Shoulder	198+40.00'			-4.00%			2.00%		-2.00%		-4.00%	
28	Runout	199+30.00'	200+20.00'	90.000'									
29	End Normal Crown	199+30.00'			-2.00%	70		2.00%		-2.00%		-4.00%	
30	Level Crown	200+20.00'			0.00%			0.00%		-2.00%		-4.00%	
31	Runoff	200+20.00'	202+90.00'	270.000'									
32	Level Crown	200+20.00'			0.00%			0.00%		-2.00%		-4.00%	
33	Reverse Crown	201+10.00'			2.00%			-2.00%		-2.00%	70	-4.00%	
34	Low Shoulder Match	202+00.00'			4.00%			-4.00%		-4.00%		-4.00%	70
35	Begin Curve	202+00.66'											
36	Begin Full Super	202+90.00'			6.00%	70		-6.00%	70	-6.00%	70	-6.00%	70
37	Transition Out Region	236+18.00'	240+60.00'	442.000'									
38	Runoff	236+18.00'	238+88.00'	270.000'									
39	End Full Super	236+18.00'			6.00%	70		-6.00%	70	-6.00%	70	-6.00%	70
40	Low Shoulder Match	237+08.00'			4.00%			-4.00%		-4.00%		-4.00%	70
41	End Curve	237+08.40'											
42	Reverse Crown	237+98.00'			2.00%			-2.00%		-2.00%	70	-4.00%	
43	Level Crown	238+88.00'			0.00%			0.00%		-2.00%		-4.00%	
44	Runout	238+88.00'	239+78.00'	90.000'									
45	Level Crown	238+88.00'			0.00%			0.00%		-2.00%		-4.00%	
46	Begin Normal Crown	239+78.00'			-2.00%			2.00%	70	-2.00%		-4.00%	
47	Begin Normal Shoulder	240+60.00'			-4.00%	70		2.00%		-2.00%		-4.00%	
48	Transition In Region	260+20.00'	264+60.00'	440.000'									
49	End Normal Shoulder	260+20.00'			-4.00%			2.00%		-2.00%		-4.00%	70
50	Runout	261+00.00'	261+90.00'	90.000'									
51	End Normal Crown	261+00.00'			-4.00%			2.00%		-2.00%	70	-2.00%	
52	Level Crown	261+90.00'			-4.00%			2.00%		0.00%		0.00%	
53	Runoff	261+90.00'	264+60.00'	270.000'									
54	Level Crown	261+90.00'			-4.00%			2.00%		0.00%		0.00%	
55	Reverse Crown	262+80.00'			-4.00%			2.00%	70	2.00%		2.00%	
56	Low Shoulder Match	263+70.00'			-4.00%			4.00%		4.00%		4.00%	
57	Begin Curve	263+70.68'											
58	Begin Full Super	264+60.00'			-6.00%	70		6.00%	70	6.00%	70	6.00%	70
59	Transition Out Region	281+47.00'	308+38.07'	2691.070'									
60	Runoff	281+47.00'	284+17.00'	270.000'									
61	End Full Super	281+47.00'			-6.00%	70		6.00%	70	6.00%	70	6.00%	70
62	Low Shoulder Match	282+37.00'			-4.00%			4.00%		4.00%		4.00%	
63	End Curve	282+37.22'											
64	Reverse Crown	283+27.00'			-4.00%			2.00%	70	2.00%		2.00%	
65	Level Crown	284+17.00'			-4.00%			2.00%		0.00%		0.00%	
66	Runout	284+17.00'	285+07.00'	90.000'									
67	Level Crown	284+17.00'			-4.00%			2.00%		0.00%		0.00%	
68	Begin Normal Crown	285+07.00'			-4.00%			2.00%		-2.00%	70	-2.00%	
69	Begin Normal Shoulder	285+85.00'			-4.00%			2.00%		-2.00%		-4.00%	70
70	Manual station	308+38.07'			-4.00%			2.00%		-2.00%		-4.00%	

LINE B: STH 64 W.B. SUPERELEVATION												
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	Left Inside Lane	Curve Smoothing(LI)	REF LINE B	Right Inside Shoulder	Curve Smoothing(RI)
23	Begin Normal Crown	154+65.08'		-4.00%	70	-2.00%	70	2.00%	70		-4.00%	
24	Begin Normal Shoulder	154+65.08'		-4.00%		-2.00%		2.00%			-4.00%	
25	Transition In Region	198+52.93'	202+91.41'									
26	End Normal Shoulder	198+52.93'		-4.00%	70	-2.00%		2.00%			-4.00%	
27	Runout	199+31.41'	200+21.41'									
28	End Normal Crown	199+31.41'		-2.00%		-2.00%	70	2.00%			-4.00%	
29	Level Crown	200+21.41'		0.00%	70	0.00%	70	2.00%			-4.00%	
30	Runoff	200+21.41'	202+91.41'									
31	Level Crown	200+21.41'		0.00%	70	0.00%	70	2.00%			-4.00%	
32	Reverse Crown	201+11.41'		2.00%		2.00%		2.00%	70		-4.00%	
33	Low Shoulder Match	202+01.41'		4.00%		4.00%		4.00%			-4.00%	70
34	Begin Curve	202+01.42'										
35	Begin Full Super	202+91.41'		6.00%	70	6.00%	70	6.00%	70		-6.00%	70
36	Transition Out Region	237+21.84'	241+24.50'									
37	Runoff	237+21.84'	238+88.41'									
38	End Full Super	237+21.84'		6.00%	70	6.00%	70	6.00%	70		-6.00%	70
39	End Curve	238+11.83'										
40	Low Shoulder Match	237+08.41'		4.00%		4.00%		4.00%	70		-4.00%	70
41	Reverse Crown	237+98.41'		2.00%		2.00%		2.00%	70		-4.00%	
42	Level Crown	238+88.41'		0.00%	70	0.00%	70	2.00%			-4.00%	
43	Runout	238+88.41'	239+78.41'									
44	Level Crown	238+88.41'		0.00%	70	0.00%	70	2.00%			-4.00%	
45	Begin Normal Crown	239+78.41'		-2.00%		-2.00%	70	2.00%			-4.00%	
46	Begin Normal Shoulder	241+24.50'		-4.00%	70	-2.00%		2.00%			-4.00%	
47	Transition In Region	259+49.50'	264+43.05'									
48	End Normal Shoulder	259+49.50'		-4.00%		-2.00%		2.00%			-4.00%	70
49	Runout	260+83.05'	261+73.05'									
50	End Normal Crown	260+83.05'		-4.00%		-2.00%	70	2.00%	70		-2.00%	
51	Level Crown	261+73.05'		-4.00%		-2.00%		0.00%	70		0.00%	70
52	Runoff	261+73.05'	264+43.05'									
53	Level Crown	261+73.05'		-4.00%		-2.00%		0.00%	70		0.00%	70
54	Reverse Crown	262+63.05'		-4.00%		-2.00%	70	-2.00%			2.00%	
55	Low Shoulder Match	263+53.05'		-4.00%	70	-4.00%		-4.00%			4.00%	
56	Begin Curve	263+53.06'										
57	Begin Full Super	264+43.05'		-6.00%	70	-6.00%	70	-6.00%	70		6.00%	70
58	Transition Out Region	281+29.75'	308+11.61'									
59	Runoff	281+29.75'	284+48.86'									
60	End Full Super	281+29.75'		-6.00%	70	-6.00%	70	-6.00%	70		6.00%	70
61	End Curve	282+68.85'										
62	Low Shoulder Match	282+68.86'		-4.00%	70	-4.00%		-4.00%			4.00%	
63	Reverse Crown	283+58.86'		-4.00%		-2.00%	70	-2.00%			2.00%	
64	Level Crown	284+48.86'		-4.00%		-2.00%		0.00%	70		0.00%	70
65	Runout	284+48.86'	285+38.86'									
66	Level Crown	284+48.86'		-4.00%		-2.00%		0.00%	70		0.00%	70
67	Begin Normal Crown	285+38.86'		-4.00%	70	-2.00%	70	2.00%	70		-4.00%	70
68	Begin Normal Shoulder	286+23.61'		-4.00%		-2.00%		2.00%			-4.00%	70
69	Manual station	308+11.61'		-4.00%		-2.00%		2.00%			-2.03%	

LINE C: SW RAMP SUPERELEVATION										
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	REF LINE C	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	151+47.35'	167+71.45'							
2	Begin Alignment	151+47.35'		-4.00%			2.00%			
3	Runoff	166+76.68'	167+71.45'							
4	End Normal Crown	166+76.68'		-4.00%	70		2.00%	70	2.00%	70
5	Begin Curve	167+23.27'								
6	Begin Full Super	167+71.45'		-5.70%	70		5.70%	70	5.70%	70
7	Transition Out Region	172+86.82'	175+35.00'							
8	Runoff	172+86.82'	173+81.59'							
9	End Full Super	172+86.82'		-5.70%	55		5.70%	55	5.70%	55
10	End Curve	173+35.01'								
11	Begin Normal Crown	173+81.59'		-4.00%	55		2.00%	55	2.00%	55
12	Begin Normal Shoulder	175+35.00'		-4.00%	55		2.00%	55	-4.00%	55
13	Transition Out Region	181+41.90'	181+41.90'							
14	Alignment End	181+41.90'		-4.00%			2.00%		-4.00%	

2

LINE D: SE RAMP SUPERELEVATION										
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	REF LINE D	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	165+16.65'	170+97.01'							
2	Manual station	165+16.65'		2.00%		2.00%			-4.00%	
3	Runout	168+99.78'	169+51.01'							
4	End Normal Crown	168+99.78'		2.00%	70	2.00%	70		-4.00%	70
5	Level Crown	169+51.01'		2.00%		2.00%			-4.00%	
6	Runoff	169+51.01'	170+97.01'							
7	Level Crown	169+51.01'		2.00%	70	2.00%	70		-4.00%	70
8	Begin Curve	170+48.34'								
9	Begin Full Super	170+97.01'		5.70%	70	5.70%	70		-5.70%	70
10	Transition Out Region	174+42.29'	176+50.14'							
11	Runoff	174+42.29'	175+88.29'							
12	End Full Super	174+42.29'		5.70%	70	5.70%	70		-5.70%	70
13	End Curve	174+90.95'								
14	Level Crown	175+88.29'		0.00%		0.00%			0.00%	
15	Runout	175+88.29'	176+50.14'							
16	Level Crown	175+88.29'		0.00%		0.00%			0.00%	
17	Begin Normal Crown	176+50.14'		-2.00%		-2.00%			2.00%	
18	Transition In Region	176+50.14'	177+62.75'							
19	Runoff	176+50.14'	177+62.75'							
20	End Normal Crown	176+50.14'		-2.00%		-2.00%			2.00%	
21	Begin Curve	177+11.76'								
22	Begin Full Super	177+62.75'		-6.00%	55	-6.00%	55		6.00%	55
23	Transition Out Region	178+84.33'	178+84.33'							
24	End Full Super	178+84.33'		-6.00%	35	-6.00%	35		6.00%	35
25	Transition In Region	180+80.39'	181+00.00'							
26	Begin Full Super	180+80.39'		4.00%	20	4.00%	20		-4.00%	20
27	End Full Super	181+00.00'		4.00%	20	4.00%	20		-4.00%	20
28	Transition Out Region	181+34.36'	181+94.75'							
29	Match RAB	181+34.36'		1.75%	35	1.75%	35		-1.75%	35
30	End Curve	181+76.08'								
31	Manual station	181+94.75'		2.00%	35	2.00%	35		-2.00%	35

2

LINE E: NW RAMP SUPERELEVATION										
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	REF LINE E	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	180+62.64'	181+11.29'							
2	Manual station(2)	180+62.64'		-2.20%	35		2.20%	35	2.20%	35
3	Begin Curve	180+78.68'								
4	Manual station	181+11.29'		-2.20%	35		2.20%	35	2.20%	35
5	Transition In Region	181+85.00'	183+44.39'							
6	Runout	181+85.00'	182+32.39'							
7	End Normal Crown	181+85.00'		-2.00%	35		2.00%	35	2.00%	35
8	Level Crown	182+32.39'		0.00%	35		0.00%	35	0.00%	35
9	Runoff	182+32.39'	183+44.39'							
10	Level Crown	182+32.39'		0.00%	35		0.00%	35	0.00%	35
11	Begin Curve	183+07.06'								
12	Begin Full Super	183+44.39'		5.80%	35		-5.80%	35	-5.80%	35
13	Transition Out Region	185+97.54'	187+48.16'							
14	Runoff	185+97.54'	187+09.54'							
15	End Full Super	185+97.54'		5.80%	55		-5.80%	55	-5.80%	55
16	End Curve	186+34.87'								
17	Level Crown	187+09.54'		0.00%	55		0.00%	55	0.00%	55
18	Runout	187+09.54'	187+48.16'							
19	Level Crown	187+09.54'		0.00%	55		0.00%	55	0.00%	55
20	Begin Normal Crown	187+48.16'		-2.00%	55		2.00%	55	2.00%	55
21	Transition In Region	188+78.96'	189+55.88'							
22	Runoff	188+78.96'	189+55.88'							
23	End Normal Crown	188+78.96'		-2.00%	55		2.00%	55	2.00%	55
24	Begin Curve	189+14.22'								
25	Begin Full Super	189+55.88'		-5.20%	55		5.20%	55	5.20%	55
26	Transition Out Region	195+53.51'	201+26.86'							
27	Runoff	195+53.51'	196+30.43'							
28	End Full Super	195+53.51'		-5.20%	55		5.20%	55	5.20%	55
29	End Curve	195+95.17'								
30	Begin Normal Crown	196+30.43'		-4.00%	55		2.00%	55	2.00%	0
31	ROS Runoff	197+80.00'		-4.00%			2.00%		-4.00%	
32	Alignment End	201+26.86'		-4.00%			2.00%		-4.00%	

2

LINE EE: NW RAMP RT TURN										
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	REF LINE EE	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	180+76.43'	181+25.00'							
2	Manual station(2)	180+76.43'		-4.00%			2.00%		2.00%	
3	Begin Curve	180+83.48'								
4	Manual station	181+25.00'		-4.00%			2.00%		2.00%	
5	Transition In Region	182+85.00'	184+39.85'							
6	End Normal Shoulder	182+85.00'		-4.00%	35		2.00%	35	2.00%	35
7	Runout	182+93.27'	183+31.85'							
8	End Normal Crown	182+93.27'		-2.00%	35		2.00%	35	2.00%	35
9	Level Crown	183+31.85'		0.00%	35		0.00%	35	0.00%	35
10	Runoff	183+31.85'	184+39.85'							
11	Level Crown	183+31.85'		0.00%	35		0.00%	35	0.00%	35
12	Reverse Crown	183+70.42'		2.00%	35		-2.00%	35	-2.00%	35
13	Begin Curve	184+03.85'								
14	Begin Full Super	184+39.85'		5.60%	35		-5.60%	35	-5.60%	35
15	Transition Out Region	185+89.17'	189+14.22'							
16	Runoff	185+89.17'	186+97.17'							
17	End Full Super	185+89.17'		5.60%	35		-5.60%	35	-5.60%	35
18	End Curve	186+25.17'								
19	Reverse Crown	186+58.60'		2.00%	35		-2.00%	35	-2.00%	35
20	Level Crown	186+97.17'		0.00%	35		0.00%	35	0.00%	35
21	Runout	186+97.17'	187+35.74'							
22	Level Crown	186+97.17'		0.00%	35		0.00%	35	0.00%	35
23	Begin Normal Crown	187+35.74'		-2.00%			2.00%	35	2.00%	
24	Begin Normal Shoulder	187+35.74'		-4.00%	35		2.00%	35	4.00%	35
25	Manual station	189+14.22'		-4.00%			2.00%		4.00%	

2

LINE T: FR A SUPERELEVATION												
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	REF LINE T	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	219+78.61'	221+71.07'									
2	Runout	219+78.61'	220+32.07'									
3	End Normal Shoulder	219+78.61'		-4.00%		-2.00%			-2.00%		-4.00%	
4	End Normal Crown	219+78.61'		-4.00%		-2.00%			-2.00%		-2.00%	
5	Level Crown	220+32.07'		-4.00%		-2.00%			0.00%		0.00%	
6	Runoff	220+32.07'	221+71.07'									
7	Level Crown	220+32.07'		-4.00%		-2.00%			0.00%		0.00%	
8	Reverse Crown	220+85.53'		-4.00%		-2.00%			2.00%		2.00%	
9	Begin Curve	221+24.73'										
10	Low Shoulder Match	221+38.99'		-4.00%		-4.00%			4.00%		4.00%	
11	Begin Full Super	221+71.07'		-5.20%		-5.20%			5.20%		5.20%	
12	Transition Out Region	226+24.18'	228+16.64'									
13	Runoff	226+24.18'	227+63.18'									
14	End Full Super	226+24.18'		-5.20%		-5.20%			5.20%		5.20%	
15	Low Shoulder Match	226+56.25'		-4.00%		-4.00%			4.00%		4.00%	
16	End Curve	226+70.51'										
17	Reverse Crown	227+09.72'		-4.00%		-2.00%			2.00%		2.00%	
18	Level Crown	227+63.18'		-4.00%		-2.00%			0.00%		0.00%	
19	Runout	227+63.18'	228+16.64'									
20	Level Crown	227+63.18'		-4.00%		-2.00%			0.00%		0.00%	
21	Begin Normal Crown	228+16.64'		-4.00%		-2.00%			-2.00%		-2.00%	
22	Begin Normal Shoulder	228+16.64'		-4.00%		-2.00%			-2.00%		-4.00%	
23	Transition In Region	230+40.34'	232+32.80'									
24	Runout	230+40.34'	230+93.80'									
25	End Normal Shoulder	230+40.34'		-4.00%		-2.00%			-2.00%		-4.00%	
26	End Normal Crown	230+40.34'		-2.00%		-2.00%			-2.00%		-4.00%	
27	Level Crown	230+93.80'		0.00%		0.00%			-2.00%		-4.00%	
28	Runoff	230+93.80'	232+32.80'									
29	Level Crown	230+93.80'		0.00%		0.00%			-2.00%		-4.00%	

2

LINE T: FR A SUPERELEVATION - CONTINUED												
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	REF LINE T	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
30	Reverse Crown	231+47.26'		2.00%		2.00%			-2.00%		-4.00%	
31	Begin Curve	231+86.47'										
32	Low Shoulder Match	232+00.72'		4.00%		4.00%			-4.00%		-4.00%	
33	Begin Full Super	232+32.80'		5.20%		5.20%			-5.20%		-5.20%	
34	Transition Out Region	236+62.06'	238+54.52'									
35	Runoff	236+62.06'	238+01.06'									
36	End Full Super	236+62.06'		5.20%		5.20%			-5.20%		-5.20%	
37	Low Shoulder Match	236+94.14'		4.00%		4.00%			-4.00%		-4.00%	
38	End Curve	237+08.39'										
39	Reverse Crown	237+47.60'		2.00%		2.00%			-2.00%		-4.00%	
40	Level Crown	238+01.06'		0.00%		0.00%			-2.00%		-4.00%	
41	Runout	238+01.06'	238+54.52'									
42	Level Crown	238+01.06'		0.00%		0.00%			-2.00%		-4.00%	
43	Begin Normal Crown	238+54.52'		-2.00%		-2.00%			-2.00%		-4.00%	
44	Begin Normal Shoulder	238+54.52'		-4.00%		-2.00%			-2.00%		-4.00%	
45	Transition In Region	238+92.71'	240+08.21'									
46	Runout	238+92.71'	239+31.21'									
47	End Normal Shoulder	238+92.71'		-4.00%		-2.00%			-2.00%		-4.00%	
48	End Normal Crown	238+92.71'		-4.00%		-2.00%			-2.00%		-2.00%	
49	Level Crown	239+31.21'		-4.00%		-2.00%			0.00%		0.00%	
50	Runoff	239+31.21'	240+08.21'									
51	Level Crown	239+31.21'		-4.00%		-2.00%			0.00%		0.00%	
52	Reverse Crown	239+69.71'		-4.00%		-2.00%			2.00%		2.00%	
53	Begin Curve	239+82.54'										
54	Begin Full Super	240+08.21'		-4.00%		-4.00%			4.00%		4.00%	
55	Transition Out Region	245+51.34'	246+66.84'									
56	Runoff	245+51.34'	246+28.34'									
57	End Full Super	245+51.34'		-4.00%		-4.00%			4.00%		4.00%	
58	End Curve	245+77.00'										
59	Reverse Crown	245+89.84'		-4.00%		-2.00%			2.00%		2.00%	
60	Level Crown	246+28.34'		-4.00%		-2.00%			0.00%		0.00%	
61	Runout	246+28.34'	246+66.84'									
62	Level Crown	246+28.34'		-4.00%		-2.00%			0.00%		0.00%	
63	Begin Normal Crown	246+66.84'		-4.00%		-2.00%			-2.00%		-2.00%	
64	Begin Normal Shoulder	246+66.84'		-4.00%		-2.00%			-2.00%		-4.00%	

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LINE U: FR B SUPERELEVATION												
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	REF LINE U	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	241+47.73'	243+55.00'									
2	End Normal Shoulder	241+47.73'		-4.00%		-2.00%			-2.00%		-4.00%	
3	Begin Curve	242+37.57'										
4	Runout	242+39.00'	242+78.00'									
5	End Normal Crown	242+39.00'		-4.00%		-2.00%			-2.00%	35	-2.00%	35
6	Level Crown	242+78.00'		-4.00%		-2.00%			0.00%		0.00%	
7	Runoff	242+78.00'	243+55.00'									
8	Level Crown	242+78.00'		-4.00%		-2.00%			0.00%		0.00%	
9	Reverse Crown	243+16.50'		-4.00%		-2.00%	35		2.00%		2.00%	
10	Begin Full Super	243+55.00'		-4.00%		-4.00%	35		4.00%	35	4.00%	35
11	Transition Out Region	245+03.74'	246+58.00'									
12	Runoff	245+03.74'	245+80.74'									
13	End Full Super	245+03.74'		-4.00%		-4.00%	35		4.00%	35	4.00%	35
14	End Curve	245+29.40'										
15	Reverse Crown	245+42.24'		-4.00%		-2.00%	35		2.00%		2.00%	
16	Level Crown	245+80.74'		-4.00%		-2.00%			0.00%		0.00%	
17	Runout	245+80.74'	246+19.24'									
18	Level Crown	245+80.74'		-4.00%		-2.00%			0.00%		0.00%	
19	Begin Normal Crown	246+19.24'		-4.00%		-2.00%			-2.00%	35	-2.00%	
20	Begin Normal Shoulder	246+58.00'		-4.00%		-2.00%			-2.00%		-4.00%	35
21	Transition In Region	261+71.00'	263+76.23'									
22	End Normal Shoulder	261+71.00'		-4.00%		-2.00%			-2.00%		-4.00%	35
23	Runout	262+23.72'	262+77.23'									
24	End Normal Crown	262+23.72'		-4.00%		-2.00%			-2.00%	35	-2.00%	
25	Level Crown	262+77.23'		-4.00%		-2.00%			0.00%		0.00%	
26	Runoff	262+77.23'	263+76.23'									
27	Level Crown	262+77.23'		-4.00%		-2.00%			0.00%		0.00%	
28	Reverse Crown	263+30.74'		-4.00%		-2.00%	35		2.00%	35	2.00%	
29	Begin Curve	263+43.23'										
30	Begin Full Super	263+76.23'		-4.00%		-3.70%	35		3.70%	35	3.70%	35
31	Transition Out Region	265+22.36'	266+74.88'									
32	Runoff	265+22.36'	266+21.36'									
33	End Full Super	265+22.36'		-4.00%		-3.70%	35		3.70%	35	3.70%	35
34	End Curve	265+55.36'										
35	Reverse Crown	265+67.85'		-4.00%		-2.00%	35		2.00%	35	2.00%	
36	Level Crown	266+21.36'		-4.00%		-2.00%			0.00%		0.00%	
37	Runout	266+21.36'	266+74.88'									
38	Level Crown	266+21.36'		-4.00%		-2.00%			0.00%		0.00%	
39	Begin Normal Crown	266+74.88'		-4.00%		-2.00%			-2.00%		-2.00%	
40	Begin Normal Shoulder	266+74.88'		-4.00%		-2.00%			-2.00%		-4.00%	

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LINE V: FR C SUPERELEVATION												
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	REF LINE V	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	231+92.00'	234+72.43'									
2	Manual station	231+92.00'		-4.00%	0	-2.00%	0		-2.00%	0	-4.00%	0
3	Runout	233+35.10'	233+69.43'									
4	End Normal Shoulder	233+35.10'		-4.00%	70	-2.00%			-2.00%		-4.00%	
5	End Normal Crown	233+35.10'		-2.00%		-2.00%	70		-2.00%		-4.00%	
6	Level Crown	233+69.43'		0.00%	70	0.00%	70		-2.00%		-4.00%	
7	Runoff	233+69.43'	234+72.43'									
8	Level Crown	233+69.43'		0.00%	70	0.00%	70		-2.00%		-4.00%	
9	Reverse Crown	234+03.76'		2.00%		2.00%			-2.00%	70	-4.00%	
10	Low Shoulder Match	234+38.10'		4.00%		4.00%			-4.00%		-4.00%	70
11	Begin Curve	234+38.10'										
12	Begin Full Super	234+72.43'		6.00%	70	6.00%	70		-6.00%	70	-6.00%	70
13	Transition Out Region	236+30.05'	237+67.38'									
14	Runoff	236+30.05'	237+33.05'									
15	End Full Super	236+30.05'		6.00%	70	6.00%	70		-6.00%	70	-6.00%	70
16	End Curve	236+64.38'										
17	Low Shoulder Match	236+64.38'		4.00%		4.00%			-4.00%		-4.00%	70
18	Reverse Crown	236+98.72'		2.00%		2.00%			-2.00%	70	-4.00%	
19	Level Crown	237+33.05'		0.00%	70	0.00%	70		-2.00%		-4.00%	
20	Runout	237+33.05'	237+67.38'									
21	Level Crown	237+33.05'		0.00%	70	0.00%	70		-2.00%		-4.00%	
22	Begin Normal Crown	237+67.38'		-2.00%		-2.00%			-2.00%		-4.00%	
23	Begin Normal Shoulder	237+67.38'		-4.00%	70	-2.00%			-2.00%		-4.00%	
24	Transition In Region	260+26.53'	261+56.76'									
25	Runout	260+26.53'	260+74.76'									
26	End Normal Shoulder	260+26.53'		-4.00%		-2.00%			-2.00%		-4.00%	70
27	End Normal Crown	260+26.53'		-4.00%		-2.00%			-2.00%	70	-2.00%	70
28	Level Crown	260+74.76'		-4.00%		-2.00%			0.00%	70	0.00%	70
29	Runoff	260+74.76'	261+56.76'									
30	Level Crown	260+74.76'		-4.00%		-2.00%			0.00%	70	0.00%	70
31	Reverse Crown	261+23.00'		-4.00%	70	-2.00%	70		2.00%	70	2.00%	70

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LINE V: FR C SUPERELEVATION - CONTINUED												
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	REF LINE V	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
32	Begin Curve	261+29.43'										
33	Begin Full Super	261+56.76'		-4.00%	70	-3.40%	70		3.40%	70	3.40%	70
34	Transition Out Region	264+08.56'	265+38.79'									
35	Runoff	264+08.56'	264+90.56'									
36	End Full Super	264+08.56'		-4.00%		-3.40%	70		3.40%	70	3.40%	70
37	End Curve	264+35.89'										
38	Reverse Crown	264+42.32'		-4.00%		-2.00%	70		2.00%	70	2.00%	70
39	Level Crown	264+90.56'		-4.00%		-2.00%			0.00%	70	0.00%	70
40	Runout	264+90.56'	265+38.79'									
41	Level Crown	264+90.56'		-4.00%		-2.00%			0.00%	70	0.00%	70
42	Begin Normal Crown	265+38.79'		-4.00%		-2.00%			-2.00%	70	-2.00%	
43	Begin Normal Shoulder	265+38.79'		-4.00%		-2.00%			-2.00%		-4.00%	70
44	Transition In Region	266+67.25'	268+12.59'									
45	Runout	266+67.25'	267+03.59'									
46	End Normal Shoulder	266+67.25'		-4.00%	70	-2.00%			-2.00%		-4.00%	
47	End Normal Crown	266+67.25'		-2.00%		-2.00%	70		-2.00%		-4.00%	
48	Level Crown	267+03.59'		0.00%	70	0.00%	70		-2.00%		-4.00%	
49	Runoff	267+03.59'	268+12.59'									
50	Level Crown	267+03.59'		0.00%	70	0.00%	70		-2.00%		-4.00%	
51	Reverse Crown	267+39.92'		2.00%		2.00%			-2.00%	70	-4.00%	
52	Low Shoulder Match	267+76.25'		4.00%		4.00%			-4.00%		-4.00%	70
53	Begin Curve	267+76.26'										
54	Begin Full Super	268+12.59'		6.00%	70	6.00%	70		-6.00%	70	-6.00%	70
55	Transition Out Region	271+26.08'	272+71.41'									
56	Runoff	271+26.08'	272+35.08'									
57	End Full Super	271+26.08'		6.00%	70	6.00%	70		-6.00%	70	-6.00%	70
58	End Curve	271+62.41'										
59	Low Shoulder Match	271+62.41'		4.00%		4.00%			-4.00%		-4.00%	70
60	Reverse Crown	271+98.75'		2.00%		2.00%			-2.00%	70	-4.00%	
61	Level Crown	272+35.08'		0.00%	70	0.00%	70		-2.00%		-4.00%	
62	Runout	272+35.08'	272+71.41'									
63	Level Crown	272+35.08'		0.00%	70	0.00%	70		-2.00%		-4.00%	
64	Begin Normal Crown	272+71.41'		-2.00%		-2.00%	70		-2.00%		-4.00%	
65	Begin Normal Shoulder	272+71.41'		-4.00%	70	-2.00%	70		-2.00%	70	-4.00%	70

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LINE G: STH 35 - CTH E E.B. SUPERELEVATION										
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	REF LINE G	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	8+53.00'	9+91.00'							
2	End Normal Shoulder	8+53.00'		-4.00%	45		-2.00%		-4.00%	
3	Runout	8+97.00'	9+42.00'							
4	End Normal Crown	8+97.00'		-2.00%			-2.00%		-4.00%	
5	Level Crown	9+42.00'		0.00%			-2.00%		-4.00%	
6	Runoff	9+42.00'	9+91.00'							
7	Level Crown	9+42.00'		0.00%			-2.00%		-4.00%	
8	Reverse Crown	9+64.00'		1.00%			-2.00%	30	-4.00%	
9	Begin Curve	9+74.58'								
10	Begin Full Super	9+91.00'		2.20%	45		-2.20%	30	-4.00%	
11	Transition Out Region	22+03.00'	23+41.00'							
12	Runoff	22+03.00'	22+52.00'							
13	End Full Super	22+03.00'		2.20%	45		-2.20%	30	-4.00%	
14	End Curve	22+19.12'								
15	Reverse Crown	22+29.00'		1.00%			-2.00%	30	-4.00%	
16	Level Crown	22+52.00'		0.00%			-2.00%		-4.00%	
17	Runout	22+52.00'	22+96.00'							
18	Level Crown	22+52.00'		0.00%			-2.00%		-4.00%	
19	Begin Normal Crown	22+96.00'		-2.00%			-2.00%		-4.00%	
20	Begin Normal Shoulder	23+41.00'		-4.00%	45		-2.00%		-4.00%	
21	Transition In Region	40+98.00'	42+67.00'							
22	End Normal Shoulder	40+98.00'		-4.00%	45		-2.00%		-4.00%	
23	Runout	41+43.00'	41+87.00'							
24	End Normal Crown	41+43.00'		-2.00%			-2.00%		-4.00%	
25	Level Crown	41+87.00'		0.00%			-2.00%		-4.00%	
26	Runoff	41+87.00'	42+67.00'							
27	Level Crown	41+87.00'		0.00%			-2.00%		-4.00%	
28	Reverse Crown	42+32.00'		2.00%			-2.00%	45	-4.00%	
29	Begin Curve	42+40.58'								
30	Begin Full Super	42+67.00'		3.60%	45		-3.60%	45	-4.00%	
31	Transition Out Region	47+64.00'	49+33.00'							
32	Runoff	47+64.00'	48+44.00'							
33	End Full Super	47+64.00'		3.60%	45		-3.60%	45	-4.00%	
34	End Curve	47+90.78'								
35	Reverse Crown	48+00.00'		2.00%			-2.00%	45	-4.00%	
36	Level Crown	48+44.00'		0.00%			-2.00%		-4.00%	
37	Runout	48+44.00'	48+89.00'							
38	Level Crown	48+44.00'		0.00%			-2.00%		-4.00%	
39	Begin Normal Crown	48+89.00'		-2.00%			-2.00%		-4.00%	
40	Begin Normal Shoulder	49+33.00'		-4.00%	45		-2.00%		-4.00%	

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LINE H: STH 35 - CTH E W.B. SUPERELEVATION										
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	REF LINE H	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	8+71.00'	10+84.00'							
2	End Normal Shoulder	8+71.00'		-4.00%	45	-2.00%			-4.00%	
3	Runout	9+37.00'	10+04.00'							
4	End Normal Crown	9+37.00'		-2.00%		-2.00%	45		-4.00%	
5	Level Crown	10+04.00'		0.00%		0.00%			-4.00%	
6	Runoff	10+04.00'	10+84.00'							
7	Level Crown	10+04.00'		0.00%		0.00%			-4.00%	
8	Reverse Crown	10+37.00'		1.00%		1.00%			-4.00%	
9	Begin Curve	10+57.40'								
10	Begin Full Super	10+84.00'		2.40%	45	2.40%	45		-4.00%	
11	Transition Out Region	20+92.00'	23+06.00'							
12	Runoff	20+92.00'	21+72.00'							
13	End Full Super	20+92.00'		2.40%	45	2.40%	45		-4.00%	
14	End Curve	21+19.13'								
15	Reverse Crown	21+39.00'		1.00%	45	1.00%	45		-4.00%	
16	Level Crown	21+72.00'		0.00%		0.00%			-4.00%	
17	Runout	21+72.00'	22+39.00'							
18	Level Crown	21+72.00'		0.00%		0.00%			-4.00%	
19	Begin Normal Crown	22+39.00'		-2.00%		-2.00%	45		-4.00%	
20	Begin Normal Shoulder	23+06.00'		-4.00%	45	-2.00%			-4.00%	
21	Transition In Region	23+86.00'	26+52.00'							
22	End Normal Shoulder	23+86.00'		-4.00%		-2.00%			-4.00%	45
23	Runout	24+53.00'	25+19.00'							

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NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	REF LINE H	Right Outside Shoulder	Curve Smoothing(ROS)
28	Reverse Crown	25+86.00'		-4.00%		-2.00%	45		2.00%	
29	Begin Curve	26+07.73'								
30	Begin Full Super	26+52.00'		-4.00%		-4.00%	45		4.00%	45
31	Transition Out Region	26+98.00'	29+64.00'							
32	Runoff	26+98.00'	28+31.00'							
33	End Full Super	26+98.00'		-4.00%		-4.00%	45		4.00%	45
34	End Curve	27+42.44'								
35	Reverse Crown	27+65.00'		-4.00%		-2.00%	45		2.00%	
36	Level Crown	28+31.00'		-4.00%		-2.00%			0.00%	
37	Runout	28+31.00'	28+98.00'							
38	Level Crown	28+31.00'		-4.00%		-2.00%			0.00%	
39	Begin Normal Crown	28+98.00'		-4.00%		-2.00%			-2.00%	
40	Begin Normal Shoulder	29+64.00'		-4.00%		-2.00%			-4.00%	45
41	Transition In Region	42+16.00'	45+28.00'							
42	End Normal Shoulder	42+16.00'		-4.00%	70	-2.00%	70		-4.00%	70
43	Runout	42+96.00'	43+76.00'							
44	End Normal Crown	42+96.00'		-2.00%	70	-2.00%	70		-4.00%	70
45	Level Crown	43+76.00'		0.00%	70	0.00%	70		-4.00%	70
46	Runoff	43+76.00'	45+28.00'							
47	Level Crown	43+76.00'		0.00%	70	0.00%	70		-4.00%	70
48	Reverse Crown	44+56.00'		2.00%	70	2.00%	70		-4.00%	70
49	Begin Curve	44+77.59'								
50	Begin Full Super	45+28.00'		3.80%	70	3.80%	70		-4.00%	70
51	Transition Out Region	47+45.00'	50+57.00'							
52	Runoff	47+45.00'	48+97.00'							
53	End Full Super	47+45.00'		3.80%	70	3.80%	70		-4.00%	70
54	End Curve	47+95.23'								
55	Reverse Crown	48+17.00'		2.00%	70	2.00%	70		-4.00%	70
56	Level Crown	48+97.00'		0.00%	70	0.00%	70		-4.00%	70
57	Runout	48+97.00'	49+77.00'							
58	Level Crown	48+97.00'		0.00%	70	0.00%	70		-4.00%	70
59	Begin Normal Crown	49+77.00'		-2.00%	70	-2.00%	70		-4.00%	70
60	Begin Normal Shoulder	50+57.00'		-4.00%	70	-2.00%	70		-4.00%	70

2

LINE J: STH 35 N.B. SUPERELEVATION								
NO.	Superelevation Curve	Start Station	End Station	REF LINE J	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	310+50.00'	311+60.00'					
2	Runoff	310+50.00'	311+60.00'					
3	End Normal Crown	310+50.00'			-2.00%	35	-4.00%	
4	Begin Full Super	311+60.00'			-4.00%	35	-4.00%	
5	Transition Out Region	314+75.00'	315+08.28'					
6	Manual station(2)	314+75.00'			-4.02%		-4.00%	
7	Manual station	315+08.28'			-4.02%		-4.00%	

2

LINE K: STH 35 S.B. SUPERELEVATION								
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	REF LINE K
3	Runout	310+50.00'	310+95.00'					
4	End Normal Crown	310+50.00'		-2.00%	45	-2.00%	45	
5	Level Crown	310+95.00'		0.00%	45	0.00%	45	
6	Runoff	310+95.00'	311+84.00'					
7	Level Crown	310+95.00'		0.00%	45	0.00%	45	
8	Begin Curve	311+20.03'						
9	Begin Full Super	311+84.00'		2.00%	45	4.00%	45	
10	Transition Out Region	314+80.88'	314+80.88'					
11	Manual station	314+80.88'		2.00%		4.02%		
12	Transition Out Region	316+48.95'	316+48.95'					
13	Manual station	316+48.95'		2.00%		4.02%		

2

LINE N: SCHOOL ROAD SUPERELEVATION												
NO.	Superelevation Curve	Start Station	End Station	Left Outside Shoulder	Curve Smoothing(LOS)	Left Outside Lane	Curve Smoothing(LO)	REF LINE N	Right Outside Lane	Curve Smoothing(RO)	Right Outside Shoulder	Curve Smoothing(ROS)
1	Transition In Region	9+65.37'	10+88.62'									
2	Runout	9+65.37'	10+01.62'									
3	End Normal Shoulder	9+65.37'		-4.00%		-2.00%			-2.00%		-4.00%	
4	End Normal Crown	9+65.37'		-2.00%		-2.00%			-2.00%		-4.00%	
5	Level Crown	10+01.62'		0.00%		0.00%			-2.00%		-4.00%	
6	Runoff	10+01.62'	10+88.62'									
7	Level Crown	10+01.62'		0.00%		0.00%			-2.00%		-4.00%	
8	Reverse Crown	10+37.87'		2.00%		2.00%			-2.00%		-4.00%	
9	Begin Curve	10+59.62'										
10	Low Shoulder Match	10+74.12'		4.00%		4.00%			-4.00%		-4.00%	
11	Begin Full Super	10+88.62'		4.80%		4.80%			-4.80%		-4.80%	
12	Transition Out Region	12+86.62'	14+09.87'									
13	Runoff	12+86.62'	13+73.62'									
14	End Full Super	12+86.62'		4.80%		4.80%			-4.80%		-4.80%	
15	Low Shoulder Match	13+01.12'		4.00%		4.00%			-4.00%		-4.00%	
16	End Curve	13+15.62'										
17	Reverse Crown	13+37.37'		2.00%		2.00%			-2.00%		-4.00%	
18	Level Crown	13+73.62'		0.00%		0.00%			-2.00%		-4.00%	
19	Runout	13+73.62'	14+09.87'									
20	Level Crown	13+73.62'		0.00%		0.00%			-2.00%		-4.00%	
21	Begin Normal Crown	14+09.87'		-2.00%		-2.00%			-2.00%		-4.00%	
22	Begin Normal Shoulder	14+09.87'		-4.00%		-2.00%			-2.00%		-4.00%	

NOTE:
1) SEE 'CONTOUR POINT TABLE - GORE POND' FOR POINT DATA
2) 1' CONTOURS SHOWN IN POND, UNLESS OTHERWISE NOTED

EXISTING CTH E

186E
187E
STH 35/NW RAMP
188E
189E

N

35M
13M
34PT
12PT
-3.00:1
33M
11M
14PT
1PT
15M
2M
16PT
3PT
17CC
32PT
9PT
31M
30PT
29M
28PT
27M
25PT
10CC
8M
868
869
871
872
870
26CC
24M
23PT
21CC
18PT
4PT
5M
19M
6PT
20PT
7PT
22PT
1X
SLOPE INTERCEPT

GORE POND
BOTTOM: 868.0'
HWL: 869.0'

STH 64 WB

183B
184B
185B
186B
187B
188B
189B
190B

0 25 50 75 FEET
SCALE

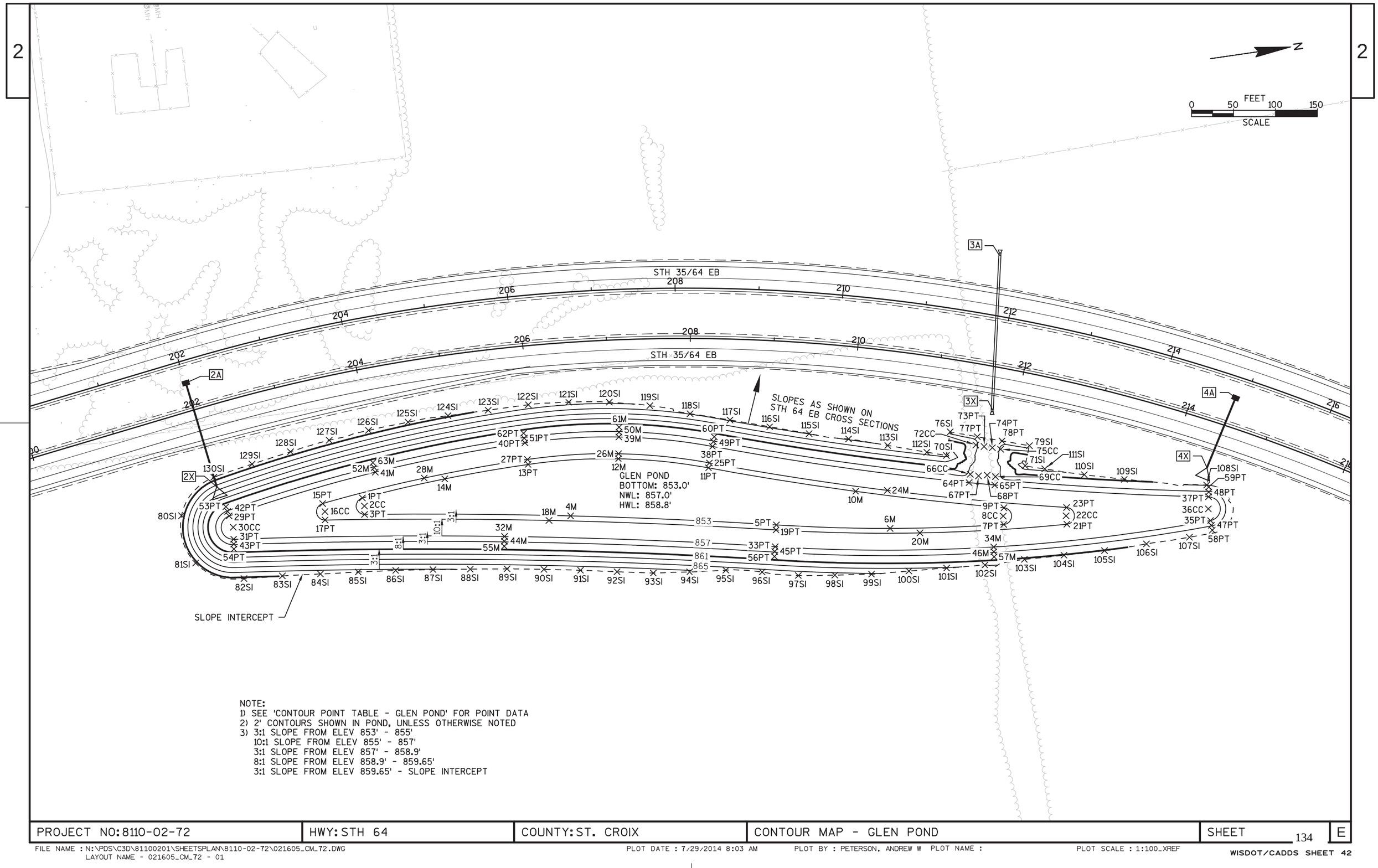
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CONTOUR MAP - GORE POND	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021601_CM_72.DWG PLOT DATE : 7/29/2014 8:17 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1:50_XREF
WISDOT/CADDS SHEET 42

	LINE B		LINE H					
POINT	STATION	OFFSET	STATION	OFFSET	ELEVATION	Y	X	RADIUS
1PT	183+01.99	358.05 LT	30+75.23	142.79 LT	868.00	373355.76	504561.42	
2M	182+81.35	345.46 LT	30+84.22	132.19 LT	868.00	373337.17	504576.89	
3PT	182+74.86	322.16 LT	31+07.03	140.23 LT	868.00	373334.16	504600.89	
4PT	183+09.07	87.85 LT	34+54.89	149.54 LT	868.00	373402.20	504827.69	
5M	183+17.75	72.44 LT	34+71.42	155.84 LT	868.00	373413.05	504841.66	
6PT	183+34.42	66.47 LT	34+79.80	171.42 LT	868.00	373430.39	504845.14	
7PT	186+84.55	74.83 LT	35+23.50	518.93 LT	868.00	373775.56	504785.74	
8M	188+01.11	168.67 LT	34+48.01	648.13 LT	868.00	373877.18	504675.89	
9PT	187+40.81	305.62 LT	30+57.43	573.52 LT	868.00	373797.52	504549.22	
10CC	186+81.61	197.80 LT	34+01.47	534.28 LT	868.00	373754.70	504664.52	123'
11M	186+61.91	343.42 LT	30+55.36	488.07 LT	868.00	373713.95	504523.34	
12PT	185+79.22	372.00 LT	30+53.91	401.31 LT	868.00	373627.97	504507.14	
13M	184+39.76	381.81 LT	30+57.30	262.98 LT	868.00	373488.58	504517.80	
14PT	183+01.32	360.98 LT	30+74.53	140.75 LT	869.00	373354.64	504558.62	
15M	182+78.92	347.15 LT	30+84.23	129.22 LT	869.00	373334.50	504575.57	
16PT	182+71.89	321.78 LT	31+09.04	138.00 LT	869.00	373331.27	504601.69	
17CC	183+07.63	325.59 LT	30+85.44	165.11 LT	868.00	373366.07	504592.70	33', 36'
18PT	183+06.12	87.40 LT	34+54.89	146.54 LT	869.00	373399.34	504828.57	
19M	183+15.84	70.18 LT	34+73.37	153.62 LT	869.00	373411.49	504844.18	
20PT	183+34.46	63.47 LT	34+82.77	171.03 LT	869.00	373430.88	504848.10	

NOTE: LINE B = STH 64 WB ALIGNMENT
LINE H = STH 35 SB ALIGNMENT

	LINE B		LINE H					
POINT	STATION	OFFSET	STATION	OFFSET	ELEVATION	Y	X	RADIUS
21CC	183+34.12	91.81 LT	34+54.69	174.88 LT		373426.39	504820.12	25.3', 28.3'
22PT	186+84.62	71.84 LT	35+26.48	518.55 LT	869.00	373776.07	504788.70	
23PT	189+54.18	76.79 LT	35+61.60	785.86 LT	869.00	374042.02	504744.44	
24M	189+97.25	111.70 LT	35+33.47	833.64 LT	869.00	374079.53	504703.61	
25PT	189+73.32	161.72 LT	34+80.45	817.39 LT	869.00	374048.55	504657.63	
26CC	189+53.68	121.52 LT	35+17.29	792.01 LT	869.00	374034.99	504700.26	44.66'
27M	189+19.13	191.71 LT	34+42.75	768.26 LT	869.00	373990.57	504635.86	
28PT	188+67.02	225.18 LT	30+61.39	716.94 LT	869.00	373934.12	504610.37	
29M	188+08.93	264.71 LT	30+59.54	649.92 LT	869.00	373870.89	504579.74	
30PT	187+50.32	303.43 LT	30+57.41	583.26 LT	869.00	373807.23	504550.00	
31M	187+46.32	305.91 LT	30+57.26	578.80 LT	869.00	373802.93	504548.12	
32PT	187+42.25	308.25 LT	30+57.13	574.29 LT	869.00	373798.57	504546.41	
33M	1866+32.00	346.22 LT	30+55.01	488.54 LT	869.00	373714.62	504520.41	
34PT	185+79.91	374.92 LT	30+53.49	401.44 LT	869.00	373628.23	504504.15	
35M	184+39.77	384.81 LT	30+56.71	262.28 LT	869.00	373488.14	504514.83	



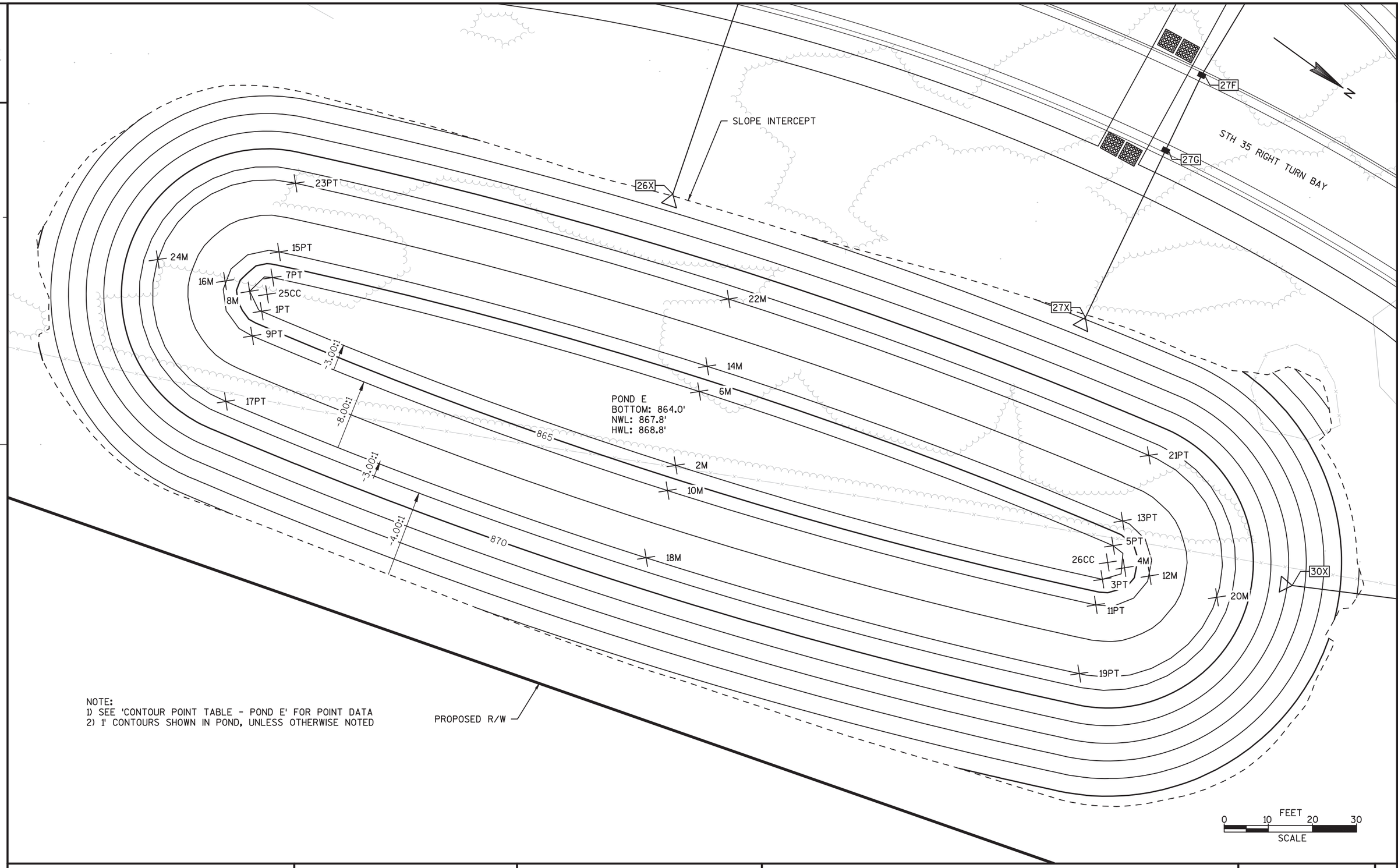
NOTE:
1) SEE 'CONTOUR POINT TABLE - GLEN POND' FOR POINT DATA
2) 2' CONTOURS SHOWN IN POND, UNLESS OTHERWISE NOTED
3) 3:1 SLOPE FROM ELEV 853' - 855'
   10:1 SLOPE FROM ELEV 855' - 857'
   3:1 SLOPE FROM ELEV 857' - 858.9'
   8:1 SLOPE FROM ELEV 858.9' - 859.65'
   3:1 SLOPE FROM ELEV 859.65' - SLOPE INTERCEPT

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CONTOUR MAP - GLEN POND	SHEET 134	E

	LINE A					
POINT NAME	STATION	OFFSET	ELEVATION	Y	X	RADIUS
1PT	203+75.71	150.80 RT	853.00	375479.137	504830.041	
2CC	203+76.26	160.79 RT	853.00	375480.254	504839.978	10.0'
3PT	203+74.18	170.60 RT	853.00	375478.944	504849.892	
4M	206+41.91	206.50 RT	853.00	375721.751	504886.536	
5PT	209+15.75	219.05 RT	853.00	375963.048	504932.079	
6M	210+66.84	210.05 RT	853.00	376096.577	504955.376	
7PT	212+13.68	182.65 RT	853.00	376231.328	504970.034	
8CC	212+10.76	173.01 RT	853.00	376232.089	504960.063	10.0'
9PT	212+09.48	163.08 RT	853.00	376234.356	504950.324	
10M	210+16.16	171.20 RT	853.00	376062.325	504905.894	
11PT	208+24.00	154.08 RT	853.00	375892.628	504853.248	
12M	207+08.45	141.81 RT	853.00	375787.904	504827.256	
13PT	205+92.54	141.03 RT	853.00	375680.348	504818.621	
14M	204+84.26	145.80 RT	853.00	375579.585	504821.553	
15PT	203+24.24	147.24 RT	855.00	375431.279	504830.003	
16CC	203+24.80	157.23 RT	854.58	375432.654	504839.908	10.0'
17PT	203+22.53	167.01 RT	855.00	375431.413	504849.831	
18M	206+12.88	209.79 RT	855.00	375695.520	504888.220	
19PT	209+15.73	225.05 RT	855.00	375961.827	504937.953	
20M	211+06.93	210.34 RT	855.00	376131.016	504965.792	
21PT	212+93.84	165.54 RT	855.00	376305.921	504980.402	
22CC	212+90.17	156.13 RT	854.73	376306.326	504970.410	10.0'
23PT	212+88.28	146.29 RT	855.00	376308.396	504960.626	
24M	210+56.82	165.60 RT	855.00	376099.825	504910.115	
25PT	208+25.08	148.16 RT	855.00	375894.543	504847.562	
26M	207+08.84	135.82 RT	855.00	375788.870	504821.334	
27PT	205+92.24	135.04 RT	855.00	375680.339	504812.622	
28M	204+58.45	140.96 RT	855.00	375555.513	504817.064	
29PT	202+04.63	133.07 RT	857.00	375318.968	504828.760	
30CC	202+05.45	147.35 RT	856.75	375321.779	504842.781	14.3', 20', 26'
31PT	202+01.58	161.19 RT	857.00	375320.239	504856.998	
32M	205+51.72	223.33 RT	857.01	375640.330	504899.573	
33PT	209+15.94	245.05 RT	857.00	375957.987	504957.582	
34M	212+06.67	211.33 RT	857.00	376215.636	504994.868	
35PT	214+68.68	112.98 RT	857.00	376475.909	505000.468	
36CC	214+61.31	100.49 RT	856.84	376475.343	504986.179	14.3', 20', 26'
37PT	214+56.82	86.85 RT	857.00	376477.659	504972.068	
38PT	208+28.62	128.44 RT	857.00	375900.927	504828.608	
39M	207+10.11	115.86 RT	857.00	375792.089	504801.595	
40PT	205+91.27	114.98 RT	857.03	375680.310	504792.546	
41M	203+98.38	123.71 RT	857.00	375498.751	504801.813	
42PT	202+04.31	127.37 RT	858.90	375317.847	504823.171	
43PT	202+00.07	166.71 RT	858.90	375319.626	504862.665	
44M	205+50.75	228.94 RT	858.90	375639.329	504905.162	

	LINE A					
POINT NAME	STATION	OFFSET	ELEVATION	Y	X	RADIUS
45PT	209+15.65	250.75 RT	858.90	375956.597	504963.115	
46M	212+08.19	216.87 RT	858.90	376215.048	505000.539	
47PT	214+71.64	117.94 RT	858.90	376476.134	505006.163	
48PT	214+55.05	81.41 RT	858.90	376478.583	504966.443	
49PT	208+29.62	122.82 RT	858.90	375902.746	504823.206	
50M	207+10.47	110.17 RT	858.90	375793.007	504795.969	
51PT	205+91.00	109.36 RT	858.90	375680.302	504786.922	
52M	203+98.08	118.01 RT	858.90	375498.184	504796.141	
53PT	202+03.97	121.38 RT	859.65	375316.668	504817.288	
54PT	201+98.56	172.51 RT	859.65	375318.980	504868.630	
55M	205+49.86	234.89 RT	859.65	375638.395	504911.089	
56PT	209+15.64	256.75 RT	859.65	375955.376	504968.990	
57M	212+09.93	222.66 RT	859.65	376214.553	505006.518	
58PT	214+74.77	123.17 RT	859.65	376476.372	505012.158	
59PT	214+53.19	75.68 RT	859.65	376479.555	504960.522	
60PT	208+30.66	116.90 RT	859.65	375904.661	504817.520	
61M	207+10.85	104.18 RT	859.65	375793.973	504790.048	
62PT	205+90.71	103.37 RT	859.65	375680.293	504780.922	
63M	203+97.77	112.02 RT	859.65	375497.587	504790.171	
64PT	211+59.23	141.56 RT	857.00	376197.437	504914.764	
65PT	211+92.12	138.71 RT	857.00	376227.357	504921.975	
66CC	211+58.97	131.54 RT	858.54	376200.371	504905.187	
67PT	211+69.66	131.59 RT	857.27	376209.836	504908.416	
68PT	211+80.34	128.82 RT	857.29	376220.197	504909.015	
69CC	211+91.01	128.76 RT	858.33	376229.662	504912.244	
70SI	211+25.00	114.26 RT	865.55	376175.300	504878.924	
71SI	212+25.00	108.79 RT	864.32	376266.555	504904.267	
72CC	211+59.26	95.96 RT	859.32	376211.861	504871.505	
73PT	211+69.75	96.01 RT	857.90	376221.326	504874.734	
74PT	211+80.24	95.52 RT	857.87	376230.946	504877.506	
75CC	211+90.73	95.47 RT	859.20	376240.411	504880.735	
76SI	211+25.00	85.70 RT	858.41	376183.861	504851.669	
77PT	211+59.21	85.96 RT	858.18	376214.968	504862.000	
78PT	211+90.45	85.48 RT	858.15	376243.455	504871.209	
79SI	212+25.00	84.41 RT	858.23	376274.985	504881.396	
80SI	201+50.00	116.60 RT	872.03	375262.774	504820.410	
81SI	201+50.00	175.46 RT	871.61	375271.367	504878.632	
82SI	202+00.00	209.66 RT	871.51	375325.825	504905.172	
83SI	202+50.00	219.18 RT	870.92	375371.534	504908.584	
84SI	203+00.00	228.20 RT	870.46	375416.799	504912.646	
85SI	203+50.00	236.18 RT	869.94	375461.656	504916.789	
86SI	204+00.00	243.41 RT	869.46	375506.167	504921.298	
87SI	204+50.00	250.42 RT	869.17	375550.373	504926.671	
88SI	205+00.00	256.71 RT	868.92	375594.264	504932.401	

	LINE A					
POINT NAME	STATION	OFFSET	ELEVATION	Y	X	RADIUS
89SI	205+50.00	262.03 RT	868.61	375637.872	504938.225	
90SI	206+00.00	267.34 RT	868.57	375681.195	504945.109	
91SI	206+50.00	271.99 RT	868.57	375724.257	504952.366	
92SI	207+00.00	276.27 RT	868.72	375767.051	504960.306	
93SI	207+50.00	279.25 RT	868.69	375809.693	504967.975	
94SI	208+00.00	278.36 RT	867.63	375852.625	504972.851	
95SI	208+50.00	275.54 RT	866.19	375895.773	504976.878	
96SI	209+00.00	276.07 RT	866.11	375938.232	504985.242	
97SI	209+50.00	277.45 RT	866.67	375980.275	504995.478	
98SI	210+00.00	273.13 RT	865.96	376023.398	505001.191	
99SI	210+50.00	267.04 RT	865.31	376066.938	505006.277	
100SI	211+00.00	257.29 RT	864.11	376111.539	505008.956	
101SI	211+50.00	246.57 RT	863.28	376156.592	505011.863	
102SI	212+00.00	234.49 RT	862.71	376202.258	505014.688	
103SI	212+50.00	218.15 RT	861.51	376249.643	505014.740	
104SI	213+00.00	202.34 RT	861.26	376297.183	505016.582	
105SI	213+50.00	184.64 RT	861.20	376345.777	505018.010	
106SI	214+00.00	162.93 RT	860.76	376396.420	505017.162	
107SI	214+50.00	139.86 RT	860.81	376448.150	505016.569	
108SI	214+50.00	74.30 RT	858.91	376477.425	504957.910	
109SI	213+50.00	96.31 RT	861.57	376381.322	504937.139	
110SI	213+00.00	103.31 RT	862.51	376334.807	504924.981	
111SI	212+50.00	107.46 RT	863.79	376289.191	504911.351	
112SI	211+00.00	114.04 RT	865.99	376152.800	504871.773	
113SI	210+50.00	112.39 RT	866.82	376107.857	504857.137	
114SI	210+00.00	109.94 RT	867.34	376062.726	504842.807	
115SI	209+50.00	107.88 RT	867.13	376017.116	504829.951	
116SI	209+00.00	102.65 RT	867.37	375971.768	504815.096	
117SI	208+50.00	96.48 RT	867.33	375926.105	504800.405	
118SI	208+00.00	89.79 RT	867.15	375880.025	504786.289	
119SI	207+50.00	79.73 RT	868.71	375833.862	504769.931	
120SI	207+00.00	73.89 RT	869.55	375786.660	504758.877	
121SI	206+50.00	71.12 RT	870.04	375738.838	504752.031	
122SI	206+00.00	70.21 RT	870.58	375690.706	504748.208	
123SI	205+50.00	71.64 RT	870.80	375642.417	504747.892	
124SI	204+99.89	71.89 RT	871.46	375594.064	504747.579	
125SI	204+50.00	72.09 RT	872.14	375545.933	504748.398	
126SI	204+00.00	73.32 RT	872.50	375497.786	504751.412	
127SI	203+50.00	75.32 RT	872.62	375449.813	504756.364	
128SI	203+00.00	78.26 RT	872.44	375402.117	504763.426	
129SI	202+50.00	81.10 RT	872.30	375354.666	504771.535	
130SI	202+00.00	83.62 RT	872.30	375307.421	504780.475	



NOTE:
1) SEE 'CONTOUR POINT TABLE - POND E' FOR POINT DATA
2) 1' CONTOURS SHOWN IN POND, UNLESS OTHERWISE NOTED

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CONTOUR PLAN - POND E	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021610_CM_72.DWG PLOT DATE : 7/29/2014 8:33 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 42

	LINE J					
POINT	STATION	OFFSET	ELEVATION	Y	X	RADIUS
1PT	305+22.51	122.13 RT	864.00	371641.70	502611.47	
2M	306+24.86	155.34 RT	864.00	371738.09	502584.41	
3PT	308+45.06	151.90 RT	864.00	371831.45	502548.27	
4M	308+45.58	146.51 RT	864.00	371833.98	502543.21	
5PT	308+41.45	144.80 RT	864.00	371828.92	502540.68	
6M	306+29.37	138.36 RT	864.00	371732.54	502567.74	
7PT	305+25.00	114.52 RT	864.00	371639.17	502603.88	
8M	305+19.82	117.60 RT	864.00	371636.85	502609.44	
9PT	305+20.32	127.71 RT	866.00	371643.26	502617.27	
10M	306+23.32	161.14 RT	866.00	371739.98	502590.10	
11PT	308+45.96	157.08 RT	866.00	371833.68	502553.84	
12M	308+47.26	143.87 RT	866.00	371839.67	502541.31	
13PT	308+39.00	139.31 RT	866.00	371827.36	502534.88	
14M	306+30.91	132.56 RT	866.00	371730.64	502562.05	
15PT	305+26.52	108.71 RT	866.00	371636.94	502598.31	
16M	305+14.25	115.22 RT	866.00	371630.95	502610.84	
17PT	305+14.27	142.53 RT	868.00	371647.21	502632.78	
18M	306+19.22	176.60 RT	868.00	371745.04	502605.28	
19PT	308+48.22	170.98 RT	868.00	371839.82	502568.62	
20M	308+51.92	137.51 RT	868.00	371854.85	502536.25	
21PT	308+32.68	124.61 RT	868.00	371823.41	502519.37	
22M	306+35.01	117.09 RT	868.00	371725.58	502546.87	
23PT	305+30.38	93.18 RT	868.00	371630.80	502583.53	
24M	304+99.04	110.26 RT	868.00	371615.77	502615.89	
25CC	305+23.76	118.32 RT	864.00	371640.44	502607.68	4', 10', 26'
26CC	308+43.29	148.35 RT	864.00	371830.19	502544.47	4', 10', 26'

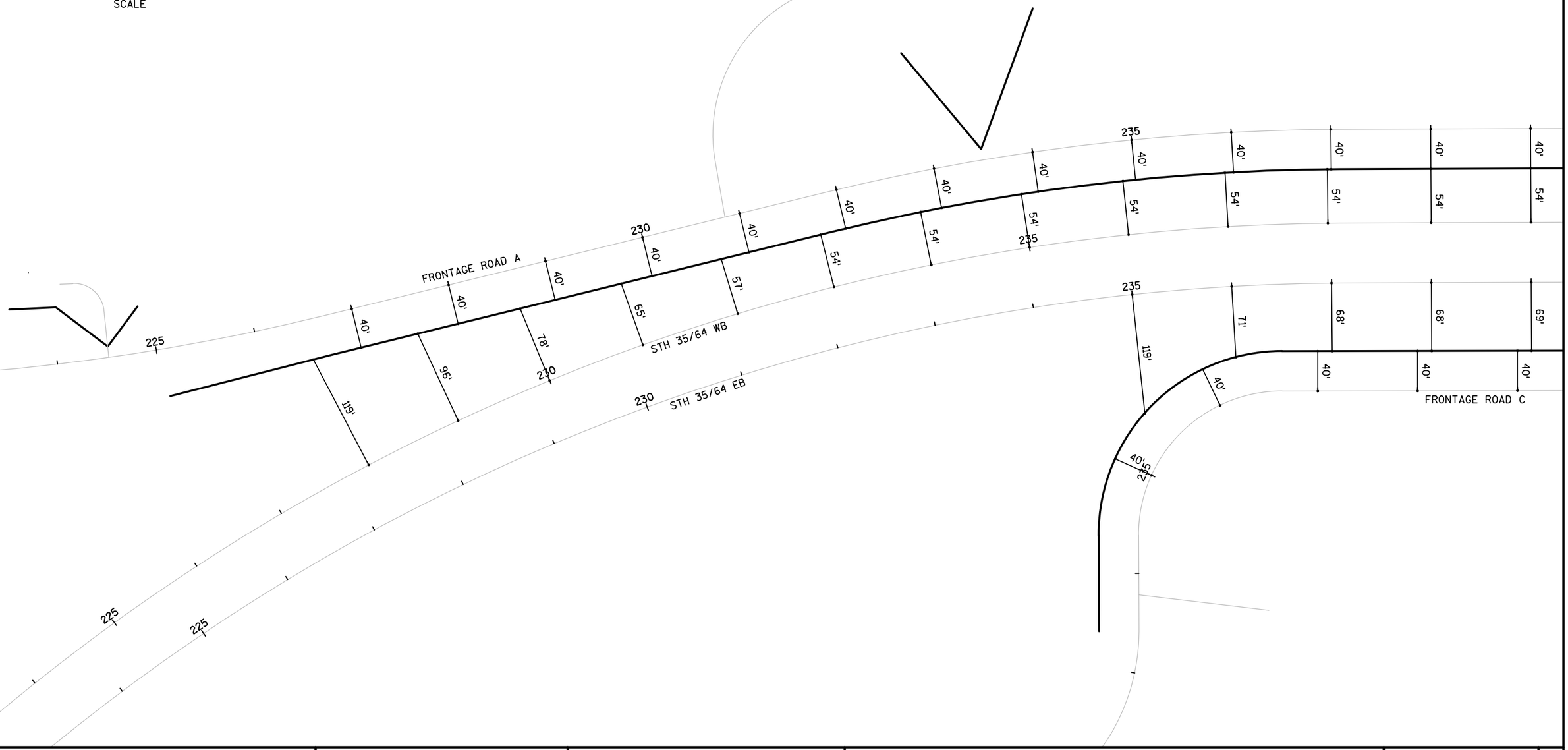
NOTE: LINE J = STH 35 NB ALIGNMENT

2

N

0 50 FEET 100 150

SCALE



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MATCHLINES - STH 35/64, FRONTAGE ROADS A, C	SHEET 138	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021701_XM_72.DWG
LAYOUT NAME - 021701_XM_72 - 050103
PLOT DATE : 8/5/2014 9:47 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

2

N

0 50 FEET 100 150
SCALE

245

242

FRONTAGE ROAD A

64'

68'

37'

35'

37'

38'

240 245 250 FRONTAGE ROAD B

40' 40' 40' 40' 40' 40' 40' 40' 40' 40'

54' 57' 77' 96' 100' 79' 57' 54' 54' 54' 54' 54' 54' 54' 54' 54'

240 245 250 STH 35/64 WB

240 245 250 STH 35/64 EB

69' 69'

40'

240 245 250 FRONTAGE ROAD C

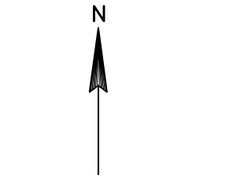
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MATCHLINES - STH 35/64, FRONTAGE ROADS A, B, C	SHEET 139	E

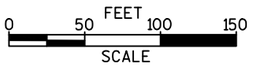
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021701_XM_72.DWG
LAYOUT NAME - 021701_XM_72 - 050104

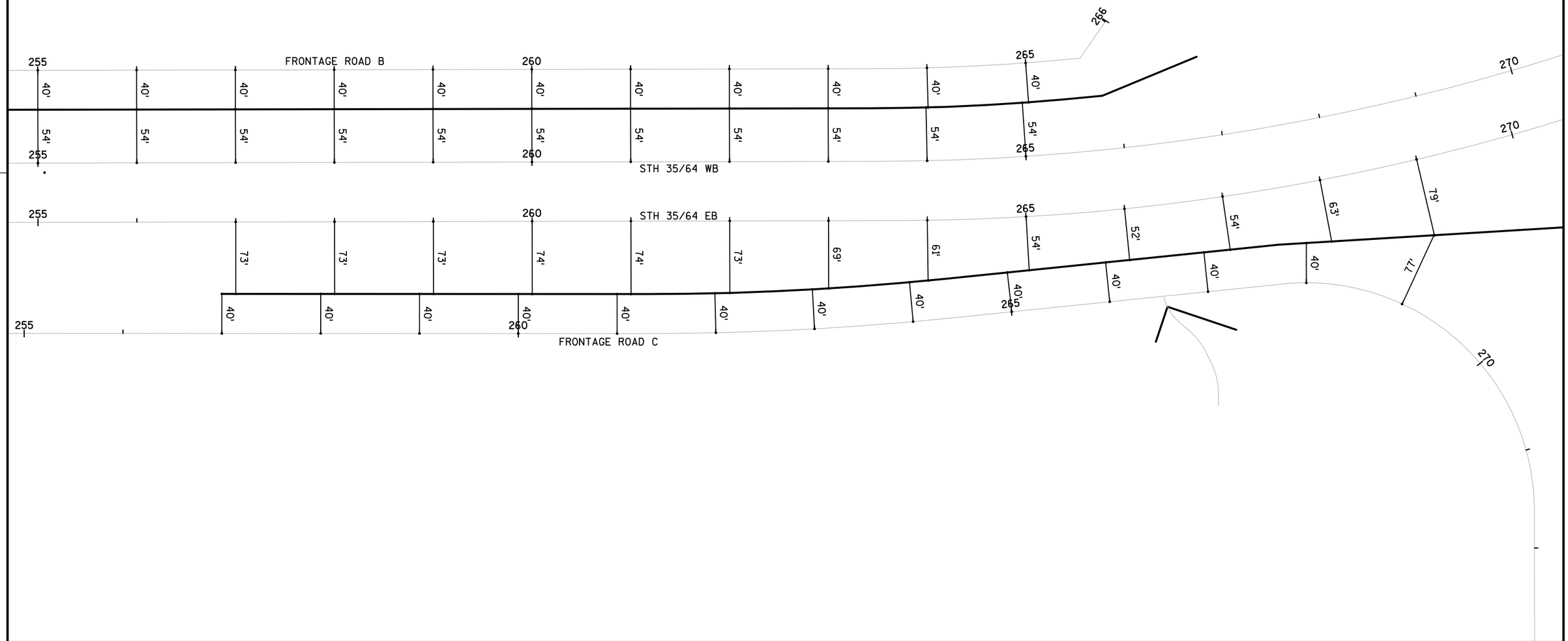
PLOT DATE : 8/5/2014 9:47 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2







PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MATCHLINES - STH 35/64, FRONTAGE ROADS B, C	SHEET 140	E

2

2

N

0 50 100 150 FEET

SCALE

STH 35 SB

STH 35 NB

MAIN ST SB

MAIN ST NB

STH 35 NB

STH 35 SB

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MATCHLINES - STH 35, MAIN ST	SHEET 141	E

2

2

N

0 50 100 150 FEET

SCALE

SCHOOL ROAD

STH 35 NB

STH 35 SB

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MATCHLINES - STH 35, SCHOOL ROAD	SHEET 142	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021701_XM_72.DWG
LAYOUT NAME - 021701_XM_72 - 050107

PLOT DATE : 8/5/2014 9:47 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1:100_XREF

2

35' TYP.

175

SW RAMP

SHARED USE PATH

175

STH 64 WB

175

STH 64 EB

SE RAMP

N

0 50 100 150 FEET

SCALE

170

170

170

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MATCHLINES - STH 35/64, SE, SW RAMPS	SHEET 143	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021701_XM_72.DWG
LAYOUT NAME - 021701_XM_72 - 050108

PLOT DATE : 8/5/2014 9:47 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1:100_XREF

2

2

SHARED USE PATH

187

185

STH 35/NW RAMP

185

185

STH 35/NE RAMP

N

CTH E WB

CTH E EB

STH 35 SB

STH 35 NB

180

180

STH 64 WB

STH 64 EB

35' TYP.

180

SW RAMP

35' TYP.

SE RAMP

0 50 FEET 100 150

SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MATCHLINES - INTERCHANGE	SHEET 144	E

2

2

N

0 50 100 150 FEET

SCALE

STH 35/NW RAMP

185 190 195 200

STH 64 WB

185 190 195 200

STH 64 EB

STH 35/NE RAMP

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MATCHLINES - STH 64, NE RAMP, NW RAMP	SHEET 145	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021701_XM_72.DWG
LAYOUT NAME - 021701_XM_72 - 050110

PLOT DATE : 8/5/2014 9:47 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1:100_XREF

2

N

0 50 100 150
FEET
SCALE

STH 35/64 WB

STH 35/64 EB

205

205

210

210

215

215

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MATCHLINES - GLEN POND	SHEET 146	E

2

2

THELEN FARM TRAIL

N

0 50 100 150 FEET

SCALE

CTH E WB
CTH E EB

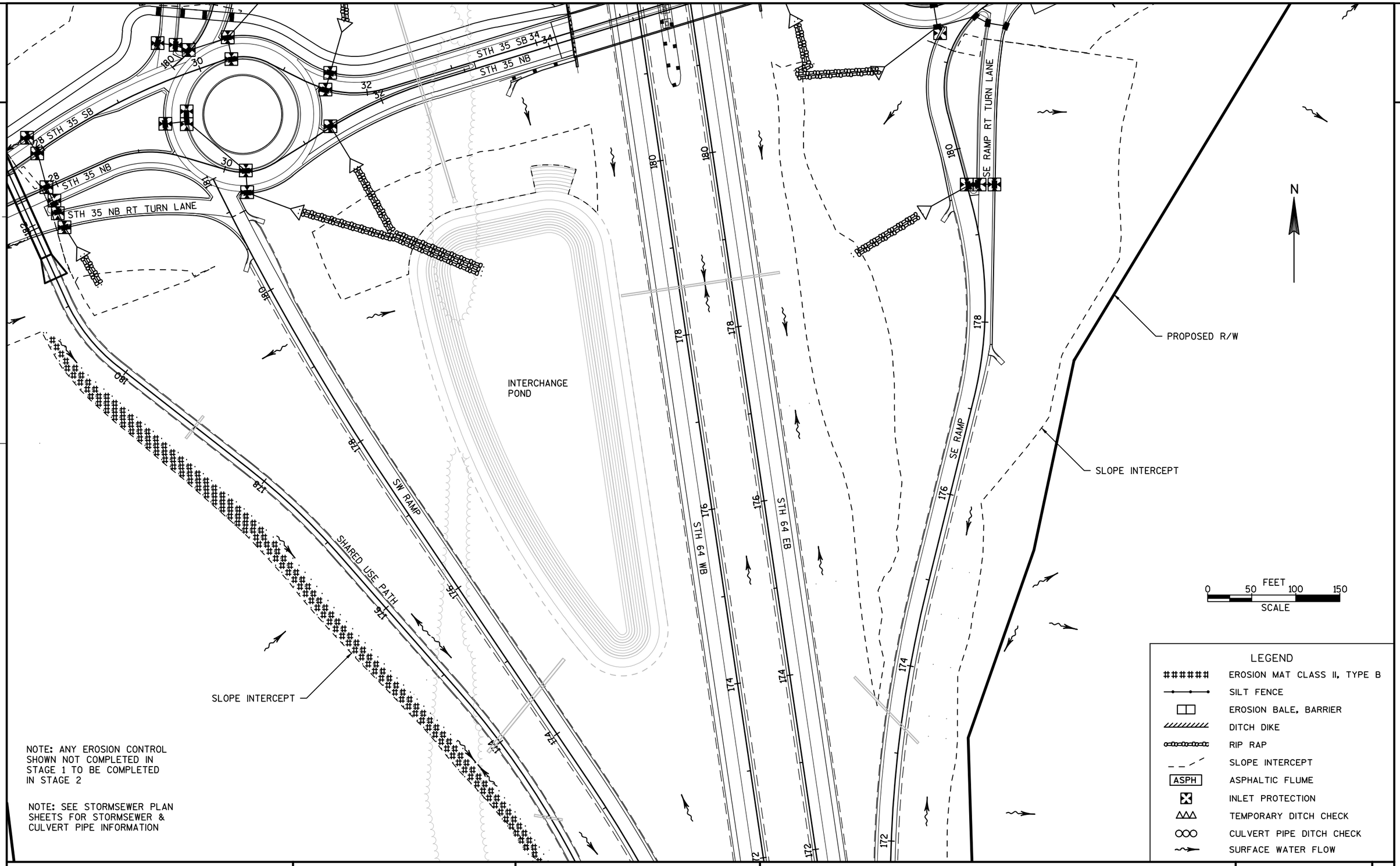
SHARED F.E.

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MATCHLINES - CTH E, THELEN FARM TRAIL	SHEET 147	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\021701_XM_72.DWG
LAYOUT NAME - 021701_XM_72 - 050112

PLOT DATE : 8/5/2014 9:47 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42



NOTE: ANY EROSION CONTROL SHOWN NOT COMPLETED IN STAGE 1 TO BE COMPLETED IN STAGE 2

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 148	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S1_72.DWG
LAYOUT NAME - 022001_EC_S1_72 - 050101

PLOT DATE : 9/25/2014 6:33 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

N

SLOPE INTERCEPT

PROPOSED R/W

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

FEET 0 50 100 150
SCALE

NOTE: ANY EROSION CONTROL SHOWN NOT COMPLETED IN STAGE 1 TO BE COMPLETED IN STAGE 2

STH 35/NW RAMP

STH 64 WB

STH 64 EB

STH 35/NE RAMP

870

869

868

GORE POND
BOTTOM: 868.0'
HWL: 869.0'

INSTALL TRACKING PAD

SEE CONTOUR PLAN FOR GRADING INFORMATION

EXISTING CTH E

COMPLETE IN STAGE 3

CTH E WB

CTH E EB

STH 35 SB

STH 35 NB

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 149 E

2

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

0 50 100 150 FEET
SCALE

NOTE: ANY EROSION CONTROL SHOWN NOT COMPLETED IN STAGE 1 TO BE COMPLETED IN STAGE 2

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

N

SLOPE INTERCEPT

SLOPE INTERCEPT

PROPOSED R/W

PROPOSED R/W

STH 35/NW RAMP

STH 64 WB

STH 64 EB

STH 35/NE RAMP

2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 150	E

2

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

0 50 FEET 100 150
SCALE

N

PROPOSED R/W

COMPLETE IN STAGE 2

COMPLETE IN STAGE 2

STH 35/64 WB

STH 35/64 EB

200 202 204 206 208 210 212 214

SEE CONTOUR PLAN FOR GRADING INFORMATION

GLEN POND
NWL: 857.0'
HWL: 858.8'

PROPOSED R/W

2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 151	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S1_72.DWG
LAYOUT NAME - 022001_EC_S1_72 - 050104

PLOT DATE : 9/25/2014 6:34 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:100_XREF

2

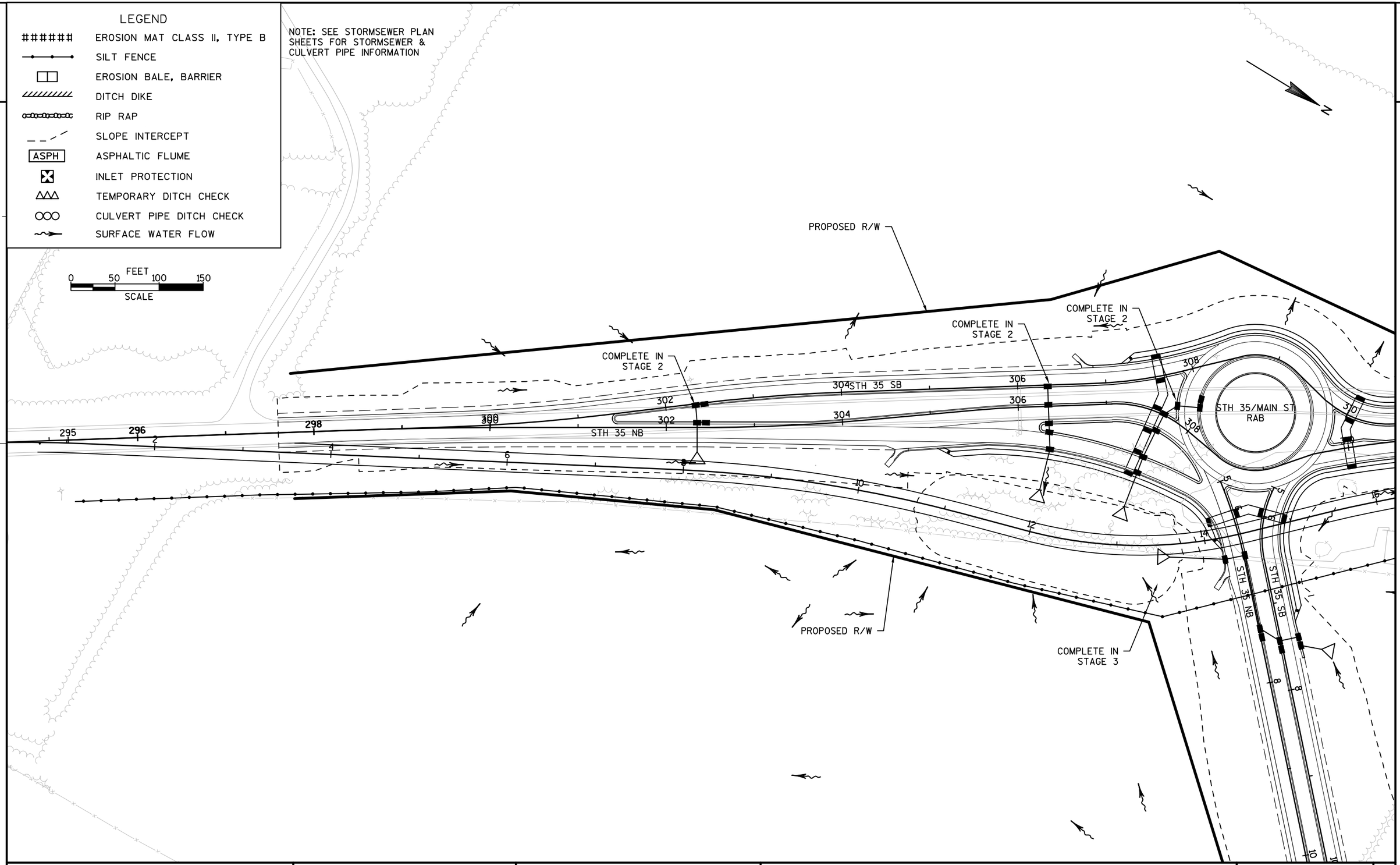
2

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

0 50 100 150 FEET
SCALE



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 152	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S1_72.DWG
LAYOUT NAME - 022001_EC_S1_72 - 050112

PLOT DATE : 9/25/2014 6:34 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

0 50 100 150 FEET
SCALE

N

COMPLETED IN STAGE 2

PROPOSED R/W

PROPOSED R/W

SLOPE INTERCEPT

SLOPE INTERCEPT

SLOPE INTERCEPT

TLE - GILBERT

CATTLE PASS STRUCTURE C-55-0036

COMPLETE IN STAGE 3

COMPLETE IN STAGE 3

MAIN ST SB

MAIN ST NB

STH 35 SB

STH 35 NB

STH 35/MAIN ST RAB

COMPLETE IN STAGE 2

COMPLETE IN STAGE 3

SLOPE INTERCEPT

PROPOSED R/W

TLE - GILBERT

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 153	E

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

0 50 100 150 FEET
SCALE

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

NOTE: ANY EROSION CONTROL NOT COMPLETED IN STAGE 1 SHOULD BE COMPLETED IN STAGE 2

TLE - GILBERT

SCHOOL RD

EXISTING CTH E

PROPOSED R/W

TLE - JOYCE

TLE - GILBERT

PROPOSED R/W

SLOPE INTERCEPT

PROPOSED R/W

SLOPE INTERCEPT

COMPLETE IN STAGE 3

14 STH 35 SB

14 STH 35 NB

22 STH 35 SB

22 STH 35 NB

SHARED USE PATH

SLOPE INTERCEPT

N

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 1	SHEET 154	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S1_72.DWG
LAYOUT NAME - 022001_EC_S1_72 - 050114

PLOT DATE : 9/25/2014 6:35 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

0 50 FEET 100 150
SCALE

N

STAGE 2
1 - 184' x CPRC CLASS III 24-INCH
STA. 211+48 A, 132' LT
1 - APRON ENDWALLS FOR CPRC 24-INCH
I.E. = 862.12
STA. 211+71 A, 51' RT
1 - APRON ENDWALLS FOR CPRC 24-INCH
I.E. = 861.21

PROPOSED R/W

STH 35/64 WB

STH 35/64 EB

204 206 208 210 212 214

202 204 206 208 210 212 214

200 202 204 206

200 202

200

870 866 862 858 854

3A

3X

GLEN POND
NWL: 857.0'
HWL: 858.8'

SEE CONTOUR PLAN FOR GRADING INFORMATION

SLOPE INTERCEPT

PROPOSED R/W

2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 155	E

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

0 50 100 150 FEET
SCALE

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

STAGE 2
1 - 24' x CPCS 24-INCH
STA. 224+41 T, 37' LT
1 - APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH
I.E. = 880.68
STA. 224+65 T, 33' LT
1 - APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH
I.E. = 879.82

PROPOSED R/W

STH 35/64 WB

STH 35/64 EB

FRONTAGE RD A

16X

16A

COMPLETE IN STAGE 3

PROPOSED R/W

PROPOSED R/W

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 156	E

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

STAGE 2
1 - 256' x CPRC CLASS III 48-INCH
STA. 233+25 A, 194' LT
1 - APRON ENDWALLS FOR CPRC 48-INCH
I.E. = 893.80
STA. 232+81 A, 58' RT
1 - APRON ENDWALLS FOR CPRC 48-INCH
I.E. = 890.18

STAGE 2
1 - 56' x CPRC CLASS III 18-INCH
STA. 242+02 T, 30' RT
1 - APRON ENDWALLS FOR CPRC 18-INCH
I.E. = 902.93
STA. 241+90 T, 25' LT
1 - APRON ENDWALLS FOR CPRC 18-INCH
I.E. = 902.65

N

SLOPE INTERCEPT

TLE - KILBANE

PROPOSED R/W

8A

8X

18X

18A

23X

23A

FRONTAGE RD A

FRONTAGE RD C

STH 35/64 WB

STH 35/64 EB

228 230 232 234 236 238 240 242

PROPOSED R/W

TLE

SLOPE INTERCEPT

COMPLETE SOUTH END IN STAGE 3

COMPLETE IN STAGE 3

SLOPE INTERCEPT

PROPOSED R/W

TLE - ANDERSON

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 157	E

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

N

0 50 100 150 FEET
SCALE

FRONTAGE RD C
STH 35/64 EB
STH 35/64 WB
FRONTAGE RD B
FRONTAGE RD A
19X
19A
244
246
248
250
12

STAGE 2
1 - 80' x CPRC CLASS III 48-INCH
STA. 243+42 T, 42' RT
1 - APRON ENDWALLS FOR CPRC 48-INCH
I.E. = 894.92
STA. 243+27 T, 36' LT
1 - APRON ENDWALLS FOR CPRC 48-INCH
I.E. = 894.22

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 158	E

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

0 50 100 150 FEET
SCALE

N

STAGE 2
1 - 32' x CPRCHE CLASS HE-III 29x45-INCH
STA. 260+73 U, 15' RT
1 - APRON ENDWALLS FOR CPRCHE 29x45-INCH
I.E. = 900.64
STA. 260+69 U, 16' LT
1 - APRON ENDWALLS FOR CPRCHE 29x45-INCH
I.E. = 900.34

STAGE 2
1 - 64' x CPRCHE CLASS HE-III 24x38-INCH
STA. 263+22 A, 41' LT
1 - APRON ENDWALLS FOR CPRCHE 24x38-INCH
I.E. = 902.81
STA. 263+13 A, 104' LT
1 - APRON ENDWALLS FOR CPRCHE 24x38-INCH
I.E. = 901.30

PROPOSED R/W

FRONTAGE RD B

STH 35/64 WB

STH 35/64 EB

FRONTAGE RD C

20X
20A
21X
21A
11X
11A

252 254 256 258 260 262 264 266

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

PROPOSED R/W

TLE - DALTON

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 159	E

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

TLE - SUTTER

STAGE 2
1 - 120' x CPRC CLASS III 30-INCH
STA. 265+75 U, 62' RT
1 - APRON ENDWALLS FOR CPRC 30-INCH
I.E. = 902.98
STA. 265+09 U, 31' LT
1 - APRON ENDWALLS FOR CPRC 30-INCH
I.E. = 901.71

21X

21A

PROPOSED R/W

STH 35/64 WB

STH 35/64 EB

FRONTAGE RD C

TLE - DALTON

PROPOSED R/W

TLE - LEVERTY

PROPOSED R/W

N

0 50 100 150 FEET
SCALE

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 160	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S2_72.DWG
LAYOUT NAME - 022001_EC_S2_72 - 050109

PLOT DATE : 9/25/2014 7:31 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

STAGE 2
1 - 344' x CPRC CLASS III 18-INCH
STA. 286+50 A, 109' LT
1 - APRON ENDWALLS FOR CPRC 18-INCH
I.E. = 918.16
STA. 289+94 A, 105' LT
1 - APRON ENDWALLS FOR CPRC 18-INCH
I.E. = 914.32

PROPOSED R/W

PROPOSED R/W

PROPOSED R/W

14A

14X

STH 35/64 WB

STH 35/64 EB

280 282 284 286 288 290 292 294

282 284 286 288 290 292 294

0 50 100 150 FEET
SCALE

N

2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S2_72.DWG
LAYOUT NAME - 022001_EC_S2_72 - 050110
PLOT DATE : 9/25/2014 7:32 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 42

2

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

PROPOSED R/W

N

0 50 100 150 FEET
SCALE

STH 35/64 WB

296 298 300 302 304 306 308 308

296 298 300 302 304 306 308 308

STH 35/64 EB

PROPOSED R/W

2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 162	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S2_72.DWG
LAYOUT NAME - 022001_EC_S2_72 - 050111

PLOT DATE : 9/25/2014 7:32 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 42

2

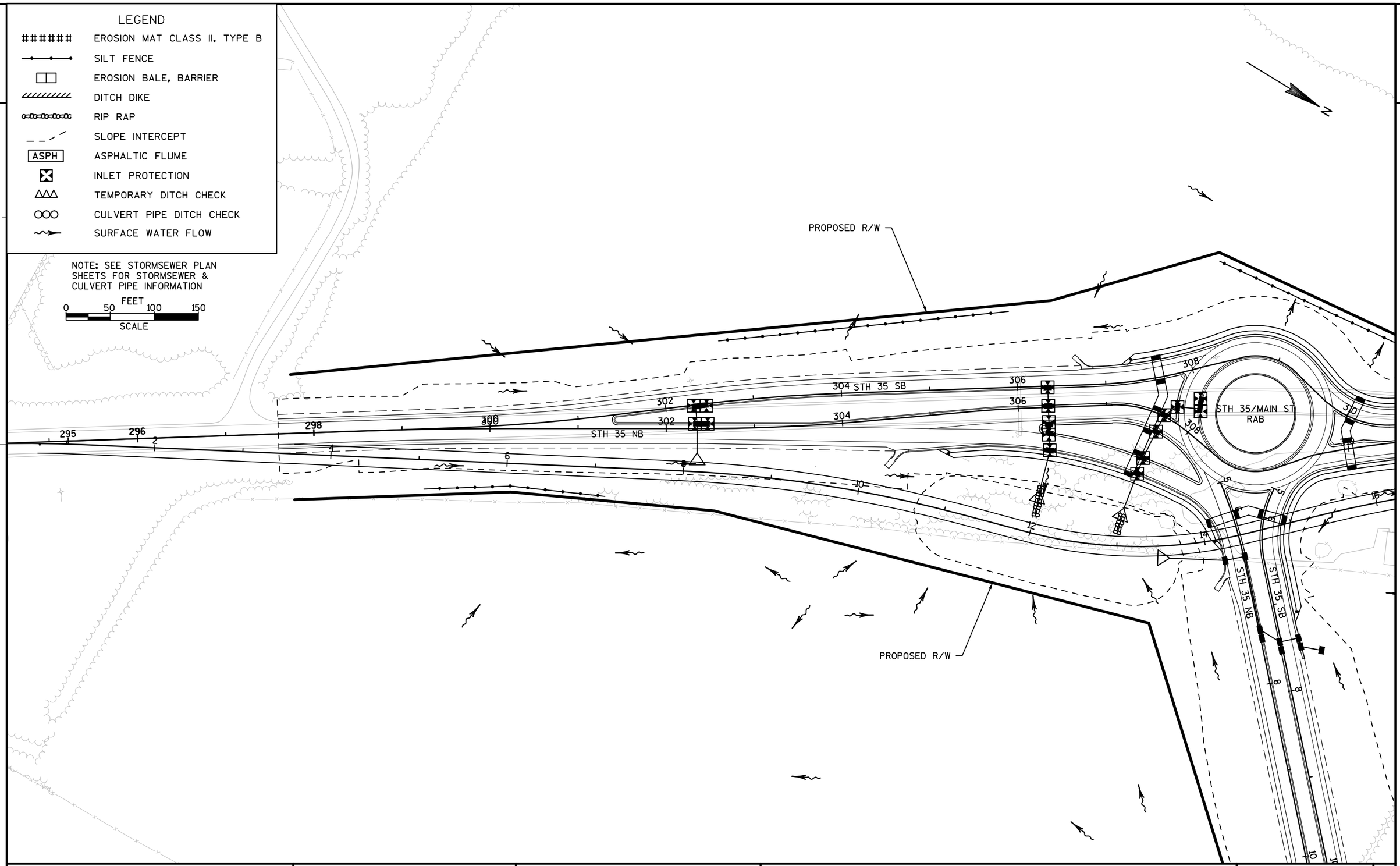
2

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

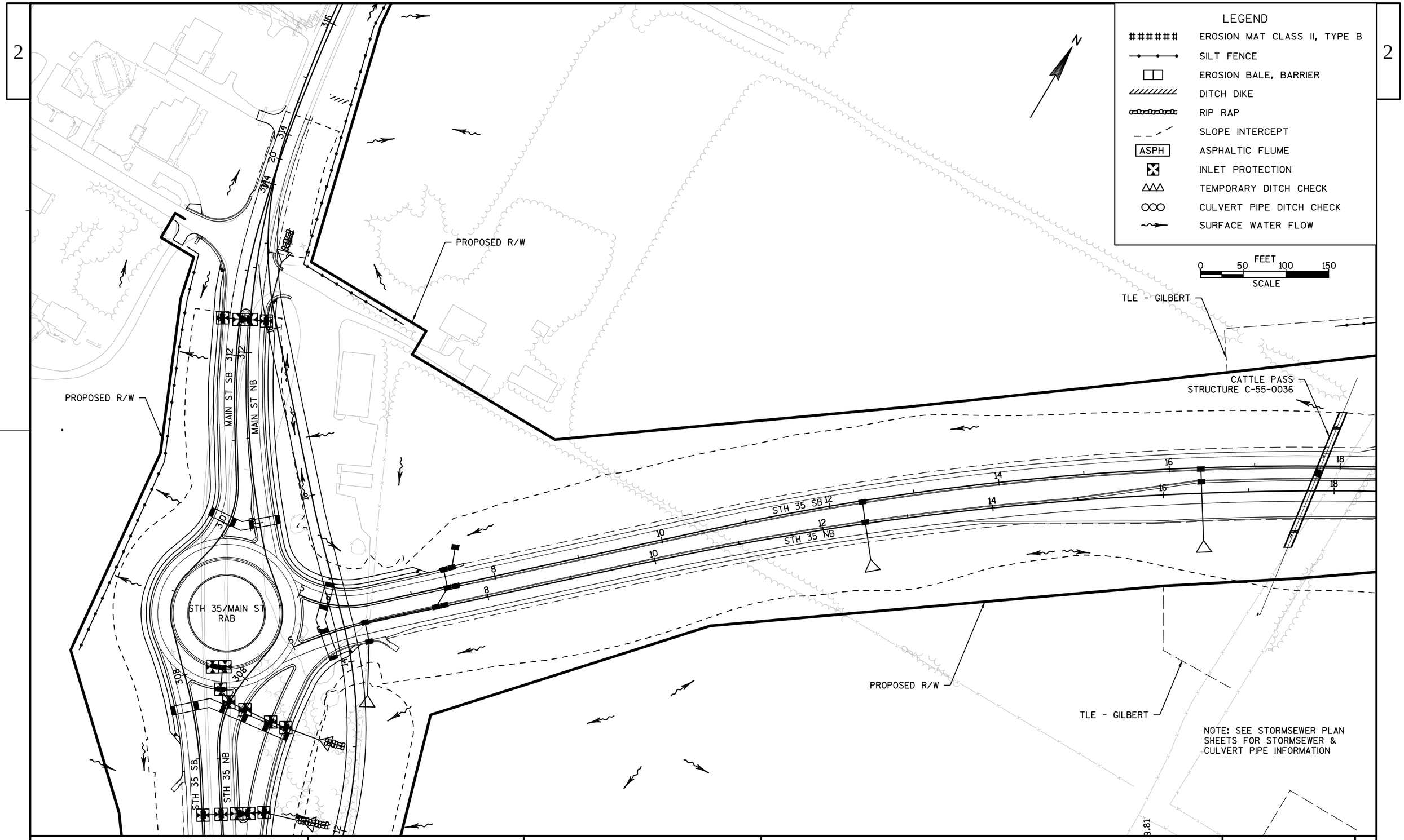
NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

FEET 0 50 100 150
SCALE



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 163	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S2_72.DWG
LAYOUT NAME - 022001_EC_S2_72 - 050112
PLOT DATE : 9/25/2014 7:32 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 42



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 2	SHEET 164	E

2

N

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

0 50 100 150 FEET
SCALE

SLOPE INTERCEPT

PROPOSED R/W

SLOPE INTERCEPT

PROPOSED R/W

STH 35/NW RAMP

STH 64 WB

STH 64 EB

STH 35/NE RAMP

872

870

868

GORE POND
NWL:
HWL: 869.0'

EROSION CONTROL FOR CONSTRUCTION ACROSS EXISTING CTH E

EXISTING CTH E

SEE CONTOUR PLAN FOR GRADING INFORMATION

COMPLETED IN STAGES 1 & 2

COMPLETED IN STAGES 1 & 2

CTH E WB

CTH E EB

STH 35 SB

STH 35 NB

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S3_72.DWG
LAYOUT NAME - 022001_EC_S3_72 - 050102
PLOT DATE : 9/25/2014 9:19 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 42

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

FEET 0 50 100 150
SCALE

PROPOSED R/W

COMPLETED IN STAGE 2

COMPLETED IN STAGE 2

STH 35/64 WB

STH 35/64 EB

SLOPE INTERCEPT

SLOPE INTERCEPT

PROPOSED R/W

PROPOSED R/W

FRONTAGE RD A

16X

16A

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 166	E

2

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

N

SLOPE INTERCEPT

TLE - KILBANE

PROPOSED R/W

FRONTAGE RD A

STH 35/64 WB

STH 35/64 EB

FRONTAGE RD C

18X

18A

23X

23A

PROPOSED R/W

TLE

SLOPE INTERCEPT

SLOPE INTERCEPT

PROPOSED R/W

TLE - ANDERSON

EXISTING CULVERT PIPE TO REMAIN

STAGE 3
1 - 72' x CPRC CLASS III 18-INCH
STA. 236+45 V, 27' RT
1 - APRON ENDWALLS FOR CPRC 18-INCH
I.E. = 907.41
STA. 235+97 V, 27' LT
1 - APRON ENDWALLS FOR CPRC 18-INCH
I.E. = 907.20

0 50 100 150 FEET
SCALE

2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 167	E

2

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

0 50 100 150 FEET
SCALE

N

PROPOSED R/W

COMPLETED IN STAGE 2

SLOPE INTERCEPT

FRONTAGE RD B

STH 35/64 WB

STH 35/64 EB

FRONTAGE RD C

20X

20A

21X

21A

11X

11A

252 254 256 258 260 262 264 266

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

PROPOSED R/W

SLOPE INTERCEPT

TLE - DALTON

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 168	E

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

TLE - SUTTER

21X

21A

COMPLETED IN STAGE 2

PROPOSED R/W

SLOPE INTERCEPT

STH 35/64 WB

STH 35/64 EB

FRONTAGE RD C

TLE - DALTON

PROPOSED R/W

SLOPE INTERCEPT

PROPOSED R/W

TLE - LEVERTY

0 50 100 150 FEET
SCALE

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

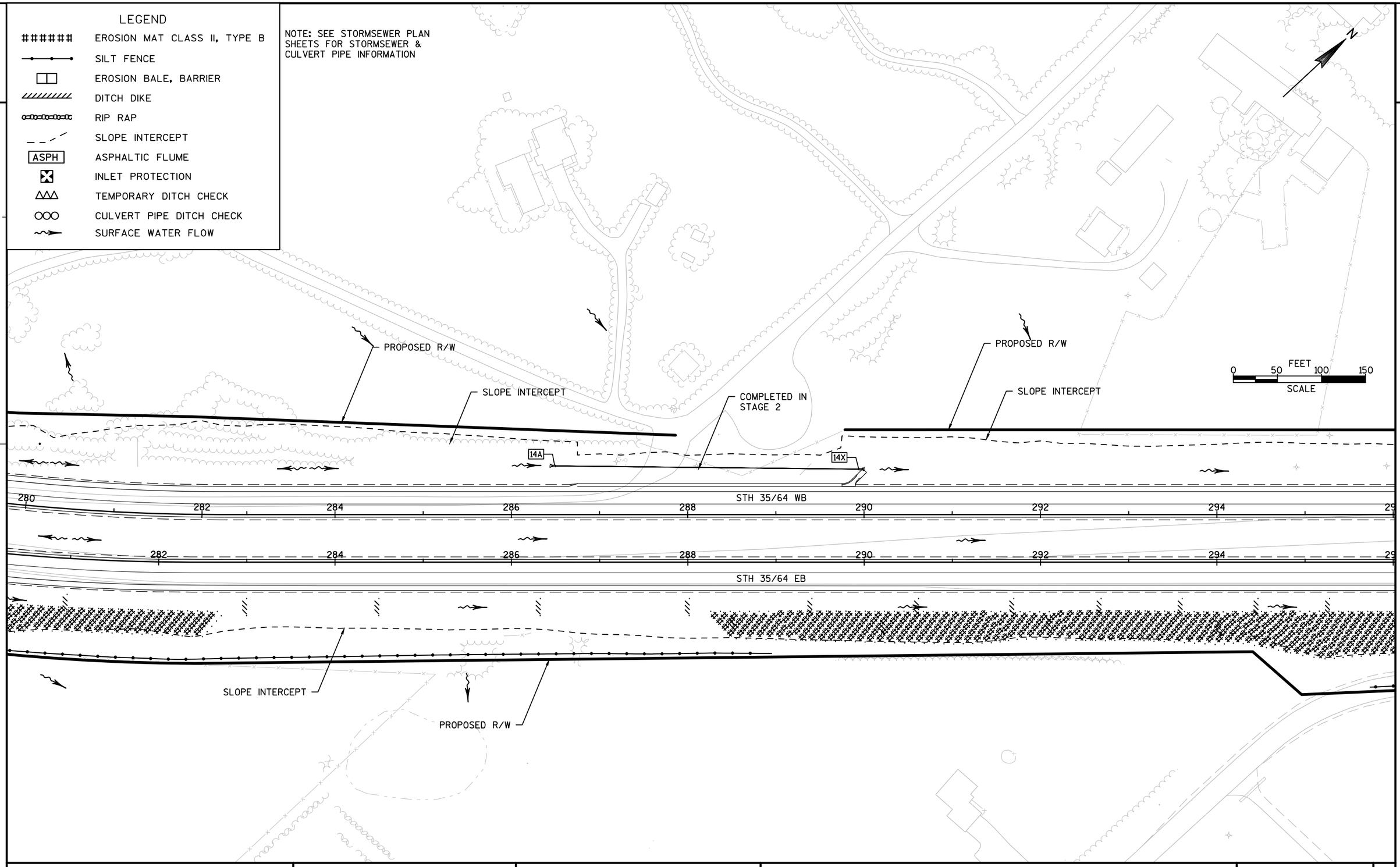
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 169	E

2

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION



2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 170	E

2

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

PROPOSED R/W

SLOPE INTERCEPT

0 50 100 150 FEET
SCALE

STH 35/64 WB

296 298 300 302 304 306 308 308

296 298 300 302 304 306 308 308

STH 35/64 EB

SLOPE INTERCEPT

PROPOSED R/W

2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 171	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S3_72.DWG
LAYOUT NAME - 022001_EC_S3_72 - 050111

PLOT DATE : 9/25/2014 9:20 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

######	EROSION MAT CLASS II, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	DITCH DIKE
	RIP RAP
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE DITCH CHECK
	SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

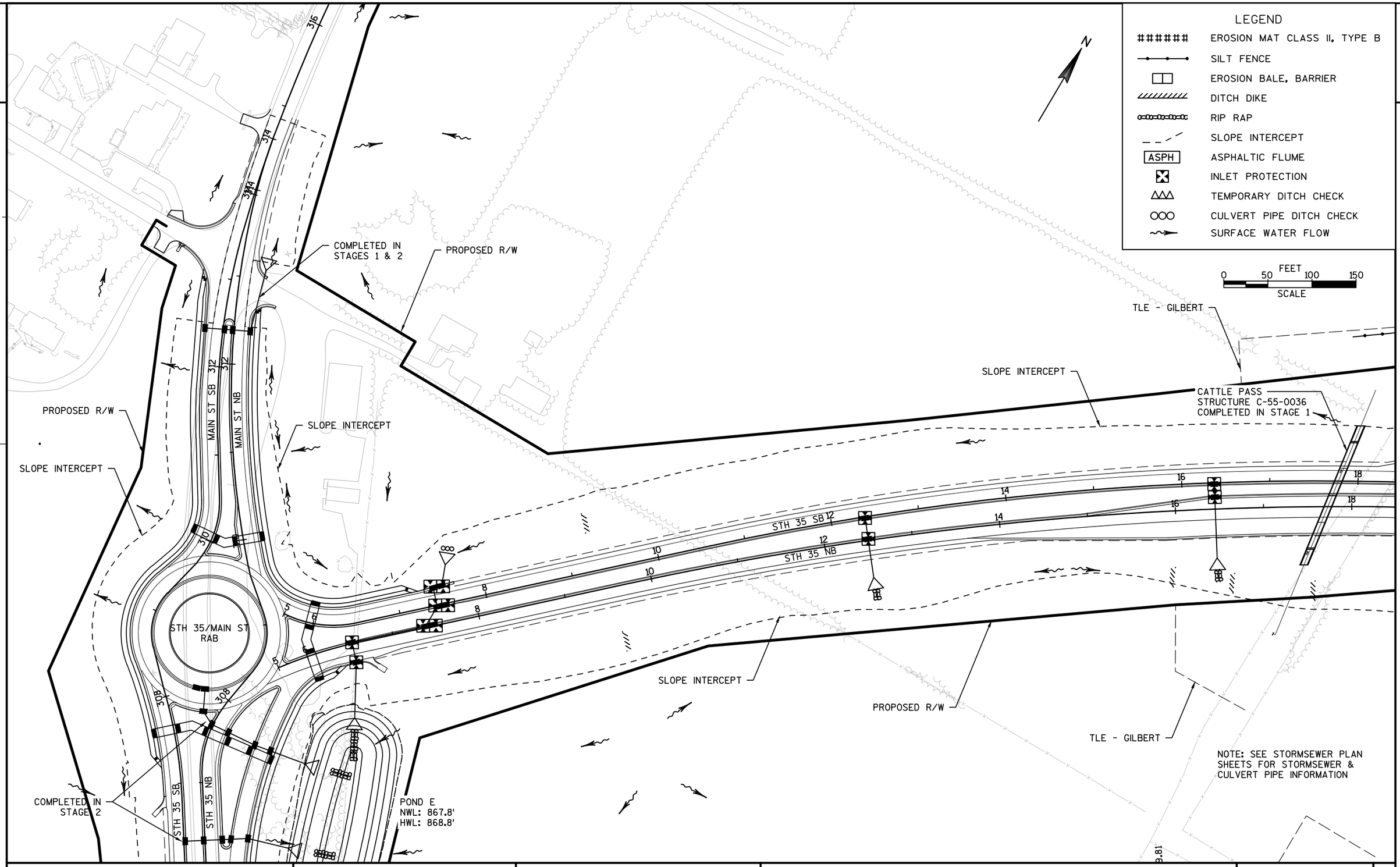
0 50 100 150 FEET
SCALE

PROPOSED R/W
SLOPE INTERCEPT
COMPLETED IN STAGE 2
COMPLETED IN STAGE 2
STH 35 SB
STH 35 NB
STH 35/MAIN ST RAB
POND E
NWL: 867.8'
HWL: 868.8'
SLOPE INTERCEPT
PROPOSED R/W
STH 35 NB
STH 35 SB

295 296 298 300 302 304 306 308 310

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022001_EC_S3_72.DWG
LAYOUT NAME - 022001_EC_S3_72 - 050112
PLOT DATE : 9/25/2014 9:20 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 42



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 173	E

2

LEGEND

- ###### EROSION MAT CLASS II, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- DITCH DIKE
- RIP RAP
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

NOTE: SEE STORMSEWER PLAN SHEETS FOR STORMSEWER & CULVERT PIPE INFORMATION

0 50 100 150 FEET
SCALE

N

TLE - GILLSTROM

TLE - RENEAU

STAGE 3
1 - 199' x CPRC CLASS III 24-INCH
STA. 46+03 G, 103' LT
1 - APRON ENDWALLS FOR CPRC 24-INCH
I.E. = 862.94
STA. 45+87 G, 95' RT
1 - APRON ENDWALLS FOR CPRC 24-INCH
I.E. = 862.41

STAGE 3
1 - 162' x CPRC CLASS III 24-INCH
STA. 51+24 G, 78' LT
1 - APRON ENDWALLS FOR CPRC 24-INCH
I.E. = 868.42
STA. 51+03 G, 82' RT
1 - APRON ENDWALLS FOR CPRC 24-INCH
I.E. = 866.23

PROPOSED R/W

SLOPE INTERCEPT

TLE - RENEAU

PROPOSED R/W

SLOPE INTERCEPT

TLE - FAGERLUND

SLOPE INTERCEPT

TLE - PLAHN

STAGE 3
1 - 74' x CPCS 18-INCH
STA. 52+90 G, 43' RT
1 - APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH
I.E. = 877.25
STA. 52+17 G, 52' RT
1 - APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH
I.E. = 876.66

PROPOSED R/W

46A 46X 47A 47X 52X 52A

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL - STAGE 3	SHEET 174 E

2

2

N

SEED MIX #20

SEED MIX #40

NURSE CROP & BUTTERFLY MIX

EXISTING STH 64

EXISTING STH 35

EXISTING CTH E

HOULTON ELEMENTARY SCHOOL

USE SEED MIX 40 TO PATH AND 20' OUTSIDE OF PATH

326'

320'

SCHOOL RD

PETERSON RD

STH 35

SHARED USE PATH

STH 64 WB

STH 64 EB

NW RAMP

SE RAMP

PROPOSED CTH E

THELEN FARM RD

EXISTING CTH E

14TH STREET

15TH STREET

USE NURSE CROP & BUTTERFLY MIX FOR FIRST 20' DOWN SLOPE

0 250 500 750 FEET

SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL: SEED MIX LOCATIONS	SHEET 175	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022005_SEED_72.DWG PLOT DATE : 6/11/2014 10:00 AM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : _____ PLOT SCALE : 1" = 500'_XREF

2

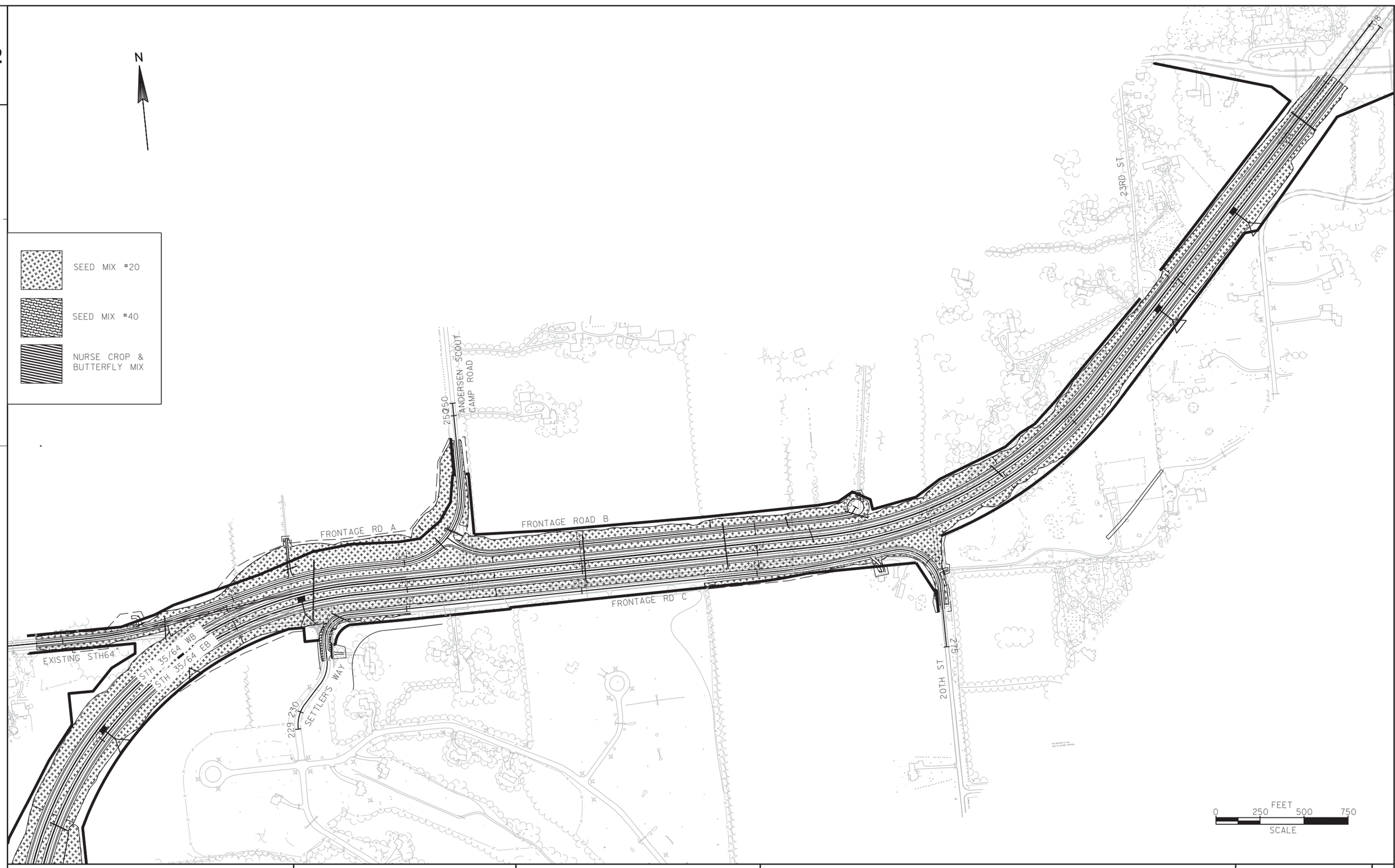
2

N

SEED MIX #20

SEED MIX #40

NURSE CROP & BUTTERFLY MIX



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EROSION CONTROL: SEED MIX LOCATIONS	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\022005_SEED_72.DWG PLOT DATE : 6/11/2014 10:00 AM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : _____ PLOT SCALE : 1" = 500'_XREF

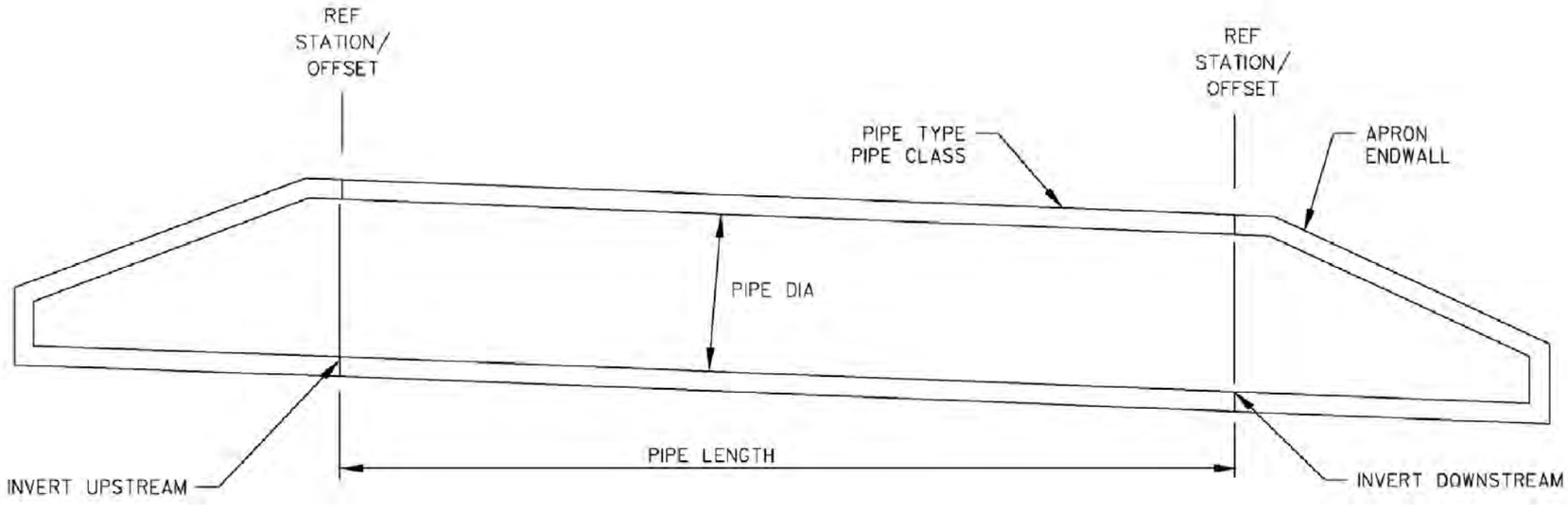
CULVERT PIPES CHART

PIPE NAME	STR NAME	ROAD NAME	REF LINE	REF STATION	OFFSET	NORTHING	EASTING	STR TYPE	INVERT (UPSTREAM)	PIPE DIA. (IN.)	PIPE TYPE (CLASS OR THICKNESS)	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT (DOWNSTREAM)	JOINT TIES REQ'D
P-3	3A	STH 35/64 EB	LINE A	211+48.09	-131.91'	376272.48'	504651.56'	AE RC 24-INCH	862.12	24	RC (III)	184	0.50%	3X		6
	3X	STH 35/64 EB	LINE A	211+71.27	50.56'	376237.28'	504832.16'	AE RC 24-INCH							861.21	6
P-8	8A	STH 35/64 EB	LINE A	233+25.24	-193.81'	377797.27'	506295.00'	AE RC 48-INCH	893.80	48	RC (III)	256	1.41%	8X		6
	8X	STH 35/64 EB	LINE A	232+81.40	58.14'	377541.39'	506301.65'	AE RC 48-INCH							890.18	6
P-11	11A	STH 35/64 EB	LINE A	263+22.37	-41.11'	377702.56'	509326.57'	AE RC HE 24X38-INCH	902.81	24X38	RC-HE (III)	64	2.36%	11X		6
	11X	STH 35/64 EB	LINE A	263+13.36	-104.45'	377765.84'	509317.16'	AE RC HE 24X38-INCH							901.30	6
P-14	14A	STH 35/64 EB	LINE A	286+49.91	-109.12'	378765.62'	511240.63'	AE RC 18-INCH	918.16	18	RC (III)	344	1.12%	14X		6
	14X	STH 35/64 EB	LINE A	289+93.87	-105.45'	379014.32'	511478.26'	AE RC 18-INCH							914.32	6
P-16	16A	FRONTAGE ROAD A	LINE T	224+64.53	-32.92'	377602.65'	505487.63'	AE CPS 24-INCH	879.69	24	CS (0.064)	24	3.61%	16X		6
	16X	FRONTAGE ROAD A	LINE T	224+40.55	-37.25'	377603.55'	505463.65'	AE CPS 24-INCH							878.82	6
P-18	18A	FRONTAGE ROAD A	LINE T	242+06.31	-190.78'	377839.03'	507209.62'	AE RC 18-INCH	902.93	18	RC (III)	56	0.49%	18X		6
	18X	FRONTAGE ROAD A	LINE T	241+66.65	-230.31'	377878.31'	507169.71'	AE RC 18-INCH							902.65	6
P-19	19A	FRONTAGE ROAD A	LINE T	243+41.63	42.36'	377935.57'	507327.57'	AE RC 48-INCH	894.92	48	RC (III)	80	0.87%	19X		6
	19X	FRONTAGE ROAD A	LINE T	243+27.47	-36.37'	377971.02'	507255.85'	AE RC 48-INCH							894.23	6
P-20	20A	FRONTAGE ROAD B	LINE U	260+70.00	15.41'	377798.22'	509073.59'	AE RC HE 29X45-INCH	900.65	29X45	RC-HE (III)	32	0.93%	20X		6
	20X	FRONTAGE ROAD B	LINE U	260+70.00	-16.59'	377830.22'	509073.39'	AE RC HE 29X45-INCH							900.35	6
P-21	21A	FRONTAGE ROAD B	LINE U	265+75.09	61.96'	377808.26'	509620.79'	AE RC 30-INCH	902.98	30	RC (III)	120	1.06%	21X		6
	21X	FRONTAGE ROAD B	LINE U	265+08.66	-30.66'	377853.06'	509509.47'	AE RC 30-INCH							901.71	6
P-23	23A	FRONTAGE ROAD C	LINE V	236+45.36	27.01'	377508.75'	506640.02'	AE RC 18-INCH	906.66	18	RC (III)	72	0.30%	23X		6
	23X	FRONTAGE ROAD C	LINE V	235+96.82	-27.13'	377545.18'	506577.92'	AE RC 18-INCH							906.45	6
P-34	34A	STH 35 NB	LINE G	19+12.92	96.15'	372622.67'	503518.08'	AE RC 30-INCH	871.00	30	RC (III)	112	0.45%	34X		6
	34X	STH 35 NB	LINE G	20+27.66	104.11'	372668.17'	503620.43'	AE RC 30-INCH							870.50	6
P-46	46A	CTH E EB	LINE G	46+02.28	-95.82'	373632.85'	505953.30'	AE RC 24-INCH	862.34	24	RC (IV)	184	0.50%	46X		6
	46X	CTH E EB	LINE G	45+87.21	87.56'	373449.44'	505967.89'	AE RC 24-INCH							861.42	6

2

CULVERT PIPES CHART

PIPE NAME	STR NAME	ROAD NAME	REF LINE	REF STATION	OFFSET	NORTHING	EASTING	STR TYPE	INVERT (UPSTREAM)	PIPE DIA. (IN.)	PIPE TYPE (CLASS OR THICKNESS)	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT (DOWNSTREAM)	JOINT TIES REQ'D
P-47	47A	CTH E EB	LINE G	51+22.52	-69.32'	373625.79'	506486.99'	AE RC 24-INCH	867.00	24	RC (III)	144	1.15%	47X		6
	47X	CTH E EB	LINE G	51+04.39	73.53'	373482.79'	506470.08'	AE RC 24-INCH							865.34	6
P-52	52A	CTH E EB	LINE G	52+99.01	48.82'	373509.16'	506664.49'	AE CPS 18-INCH	875.11	18	CS (0.064)	80	0.75%	52X		6
	52X	CTH E EB	LINE G	52+19.28	55.339'	373501.96'	506584.81'	AE CPS 18-INCH							874.51	6
P-54	54A	STH 35 NB	LINE J	306+39.27	83.80'	371710.87'	502516.70'	AE RC 24-INCH	872.69	24	RC (III)	152	1.68%	54X		6
	54X	STH 35 NB	LINE J	306+62.45	-66.40'	371647.82'	502378.42'	AE RC 24-INCH							870.14	6



PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CULVERT PIPES SCHEDULE	SHEET:	E

2

STORM SEWER CHART

STR NO	ROAD NAME	REF LINE	REF STATION	OFFSET	NORTHING	EASTING	STR TYPE	GRATE ELEV (FT)	T.O.S. ELEV.	STR DEPTH (FT)	INVERT OUT (FT)	PIPE NO.	PIPE DIA (IN)	PIPE CLASS	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT IN (FT)
1A	STH 64 EB	LINE A	183+60.00	55.19'	373482.99'	505021.01'	INLETS MEDIAN 2 GRATE	871.85		2.312	869.538	P-1A	24X38	III	85	0.30%	1B	
1B	STH 64 EB	LINE A	183+60.00	-29.99'	373470.55'	504936.74'	INLETS MEDIAN 2 GRATE	871.60		2.315	869.285	P-1B	24X38	III	84	0.30%	1X	869.283
1X	STH 64 EB	LINE A	183+60.00	-113.99'	373458.29'	504853.64'	AE RCHE 24X38-INCH											869.031
2A	STH 35/64 EB	LINE A	202+00.00	-33.59'	375290.31'	504664.52'	INLETS MEDIAN 2 GRATE	870.71		4.637	866.072	P-2	24	III	129	0.50%	2X	
2X	STH 35/64 EB	LINE A	202+00.00	95.39'	375309.14'	504792.12'	AE RC 24-INCH											865.428
4A	STH 35/64 EB	LINE A	214+49.99	-35.21'	376526.31'	504859.92'	INLETS MEDIAN 2 GRATE	864.72		3.881	860.841	P-4	24	III	90	1.54%	4X	
4X	STH 35/64 EB	LINE A	214+43.63	54.56'	376480.69'	504937.49'	AE RC 24-INCH											859.452
5A	STH 35/64 EB	LINE A	220+50.00	-32.28'	377023.03'	505210.06'	INLETS MEDIAN 2 GRATE	870.18		3.878	866.300	P-5	18	III	87	2.20%	5X	
5X	STH 35/64 EB	LINE A	220+50.00	54.71'	376963.38'	505273.38'	AE RC 18-INCH											864.385
6A	STH 35/64 EB	LINE A	226+50.00	-29.90'	377397.54'	505687.67'	INLETS MEDIAN 2 GRATE	884.36		4.175	880.181	P-6	24	III	85	2.43%	6X	
6X	STH 35/64 EB	LINE A	226+50.00	55.08'	377323.90'	505730.08'	AE RC 24-INCH											878.113
7A	STH 35/64 EB	LINE A	234+00.00	-32.04'	377651.72'	506400.82'	INLETS MEDIAN 2 GRATE	901.28		4.097	897.184	P-7	18	III	90	2.83%	7X	
7X	STH 35/64 EB	LINE A	234+00.00	57.92'	377562.86'	506414.85'	AE RC 18-INCH											894.635
9A	STH 35/64 EB	LINE A	250+12.77	144.48'	377508.80'	508018.15'	AE RC 24-INCH				899.424	P-9A	24	III	67	0.30%	9B	
9B	STH 35/64 EB	LINE A	250+14.64	77.51'	377575.79'	508019.60'	INLETS MEDIAN 2 GRATE	903.06		3.932	899.129	P-9B	24	III	112	0.30%	9C	899.223
9C	STH 35/64 EB	LINE A	250+17.58	-34.38'	377687.69'	508021.84'	INLETS MEDIAN 2 GRATE	907.42		9.717	897.700	P-9C	30	III	90	0.30%	9D	898.793
9D	STH 35/64 EB	LINE A	250+19.93	-124.05'	377777.38'	508023.63'	INLETS MEDIAN 2 GRATE	904.88		7.547	897.336	P-9D	36	III	69	0.30%	9X	897.430
9X	STH 35/64 EB	LINE A	250+21.74	-193.03'	377846.36'	508025.01'	AE RC 36-INCH											897.132
10A	STH 35/64 EB	LINE A	258+25.00	58.75'	377599.60'	508829.83'	AE RC 36-INCH				900.218	P-10A	36	III	91	0.30%	10B	
10B	STH 35/64 EB	LINE A	258+23.43	-32.24'	377690.57'	508827.69'	INLETS MEDIAN 2 GRATE	904.69		4.738	899.949	P-10B	36	III	144	0.30%	10X	899.949
10X	STH 35/64 EB	LINE A	258+20.84	-176.21'	377834.53'	508824.20'	AE RC 36-INCH											899.516
12A	STH 35/64 EB	LINE A	274+85.18	-26.06'	377956.51'	510432.44'	INLETS MEDIAN 2 GRATE	918.77		2.716	916.055	P-12	18	III	84	0.59%	12X	
12X	STH 35/64 EB	LINE A	274+65.64	-107.89'	378019.94'	510377.37'	AE RC 18-INCH											915.559
25A	STH 35 NB	LINE J	302+43.30	-26.50'	371326.17'	502650.02'	INLETS 2X3-FT	876.27	875.44	2.114	873.160	P-25A	12	III	10	0.30%	25B	
25B	STH 35 NB	LINE J	302+33.37	-25.30'	371318.31'	502656.21'	INLETS 2X3-FT	876.27	875.44	3.156	872.030	P-25B	24	III	20	0.30%	25D	873.130
25C	STH 35 NB	LINE J	302+44.97	-5.40'	371338.57'	502667.20'	INLETS 2X3-FT	876.34	875.51	2.342	873.000	P-25C	12	III	10	0.30%	25D	
25D	STH 35 NB	LINE J	302+35.00	-5.42'	371330.05'	502672.37'	INLETS 4-FT DIAMETER	876.34	875.50	3.384	871.870	P-25D	24	III	33	0.30%	25X	871.970
25X	STH 35 NB	LINE J	302+35.00	27.62'	371347.20'	502700.56'	AE RC 24-INCH											871.771

2

STORM SEWER CHART

STR NO	ROAD NAME	REF LINE	REF STATION	OFFSET	NORTHING	EASTING	STR TYPE	GRATE ELEV (FT)	T.O.S. ELEV.	STR DEPTH (FT)	INVERT OUT (FT)	PIPE NO.	PIPE DIA (IN)	PIPE CLASS	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT IN (FT)
26A	STH 35 NB	LINE J	306+34.24	-22.47'	371648.33'	502430.60'	INLETS 2X3-FT	878.12	877.28	3.667	873.450	P-26A	12	III	21	1.86%	26B	
26B	STH 35 NB	LINE J	306+34.24	-1.53'	371659.86'	502448.15'	INLETS 2X3-FT	878.09	877.26	4.589	872.459	P-26B	18	III	21	1.30%	26C	873.059
26C	STH 35 NB	LINE J	306+34.24	19.53'	371671.38'	502465.71'	INLETS 2X3-FT	877.71	876.88	4.587	872.085	P-26C	18	III	10	2.48%	26D	872.185
26D	STH 35 NB	LINE J	306+34.25	29.45'	371676.86'	502474.05'	INLETS 2X3-FT	877.59	876.75	4.806	871.738	P-26D	18	III	19	1.56%	26E	871.838
26E	STH 35 NB	LINE J	306+34.24	48.85'	371687.48'	502490.22'	INLETS 4-FT DIAMETER	877.29	876.46	4.916	871.336	P-26E	18	III	47	1.50%	26X	871.436
26X	STH 35 NB	LINE J	306+21.20	93.97'	371701.35'	502535.12'	AE RC 18-INCH											870.631
27A	STH 35 NB	LINE J	307+91.02	-37.80'	371804.74'	502352.65'	INLETS 2X2.5-FT	878.74	877.79	2.722	874.897	P-27A	12	III	10	1.00%	27B	
27B	STH 35 NB	LINE J	307+95.35	-29.13'	371808.35'	502361.63'	INLETS 4-FT DIAMETER	878.73	877.77	3.364	874.202	P-27B	18	III	26	1.50%	27C	874.800
27C	STH 35 NB	LINE J	307+75.19	-16.76'	371785.49'	502372.93'	INLETS 4-FT DIAMETER	878.84	878.01	4.084	873.719	P-27C	18	III	18	1.34%	27D	873.820
27D	STH 35 NB	LINE J	307+67.04	-1.53'	371777.54'	502388.66'	INLETS 4-FT DIAMETER	878.76	877.92	4.332	873.382	P-27D	18	III	21	1.61%	27E	873.482
27E	STH 35 NB	LINE J	307+67.00	19.53'	371779.38'	502409.52'	INLETS 2X3-FT	878.31	877.48	4.324	872.944	P-27E	18	III	33	1.41%	27F	873.044
27F	STH 35 NB	LINE J	307+66.99	52.69'	371782.30'	502442.67'	INLETS 4-FT DIAMETER	878.75	877.92	5.334	872.374	P-27F	18	III	19	1.17%	27G	872.474
27G	STH 35 NB	LINE J	307+71.32	71.63'	371785.75'	502461.29'	INLETS 2X3-FT	878.43	877.60	5.336	872.053	P-27G	18	III	42	1.25%	27X	872.153
27X	STH 35 NB	LINE J	307+91.95	112.57'	371793.39'	502502.59'	AE RC 18-INCH											871.528
28A	MAIN ST NB	LINE J	312+38.48	-33.11'	372160.06'	502152.28'	INLETS 2X3-FT	876.52	875.68	3.217	872.300	P-28A	12	III	22	0.90%	28B	
28B	MAIN ST NB	LINE J	312+38.59	-10.79'	372169.99'	502172.20'	INLETS 2X3-FT	875.73	874.90	3.223	871.470	P-28B	18	III	9	0.51%	28C	872.100
28C	MAIN ST NB	LINE J	312+38.63	-1.53'	372174.15'	502180.54'	INLETS 2X3-FT	875.26	874.43	2.801	871.422	P-28C	18	III	20	0.51%	28D	871.422
28D	MAIN ST NB	LINE J	312+38.73	18.53'	372183.07'	502198.44'	INLETS 4-FT DIAMETER	874.58	873.75	2.221	871.320	P-28D	18	III	71	0.45%	28X	871.320
28X	MAIN ST NB	LINE J	313+10.83	28.27'	372251.27'	502178.68'	AE RC 18-INCH											871.000
30A	STH 35 NB	LINE G	7+74.98	-65.03'	372068.55'	502523.74'	AE RC 24-INCH				873.300	P-30A	24	III	24	0.70%	30B	
30B	STH 35 NB	LINE G	7+66.02	-42.83'	372046.16'	502532.38'	INLETS 4-FT DIAMETER	877.36	876.53	3.248	873.031	P-30B	24	III	10	1.50%	30C	873.131
30C	STH 35 NB	LINE G	7+56.04	-42.33'	372038.98'	502525.42'	INLETS 4-FT DIAMETER	877.36	876.53	3.498	872.781	P-30C	24	III	22	1.12%	30E	872.881
30D	STH 35 NB	LINE G	7+66.04	-20.47'	372029.92'	502547.56'	INLETS 2X3-FT	877.75	876.92	3.166	873.583	P-30D	12	III	10	0.43%	30E	
30E	STH 35 NB	LINE G	7+56.04	-20.47'	372023.09'	502540.25'	INLETS 4-FT DIAMETER	877.74	876.91	4.218	872.437	P-30E	24	III	26	0.83%	30G	872.537
30F	STH 35 NB	LINE G	7+48.11	-1.53'	372003.75'	502547.46'	INLETS 2X3-FT	877.71	876.88	3.415	873.295	P-30F	12	III	10	0.74%	30G	
30G	STH 35 NB	LINE G	7+38.11	-1.53'	371996.93'	502540.15'	INLETS 4-FT DIAMETER	877.70	876.87	4.499	872.121	P-30G	24	III	85	1.14%	30H	872.221
30H	STH 35 NB	LINE G	6+53.04	-1.53'	371938.85'	502477.96'	INLETS 4-FT DIAMETER	878.15	877.31	6.016	871.047	P-30H	24	III	23	1.19%	30J	871.147
30J	STH 35 NB	LINE G	6+52.77	21.50'	371922.11'	502493.59'	INLETS 4-FT DIAMETER	877.75	876.92	5.996	870.674	P-30J	24	III	63	0.78%	30X	870.775
30X	STH 35 NB	LINE G	6+33.67	81.99'	371867.05'	502524.06'	AE RC 24-INCH											870.186
32A	STH 35 NB	LINE G	12+50.00	-25.42'	372357.49'	502906.01'	INLETS 2X3-FT	880.67	879.84	3.081	876.547	P-32A	18	III	24	0.81%	32B	
32B	STH 35 NB	LINE G	12+50.00	-1.53'	372338.80'	502921.09'	INLETS 2X3-FT	880.63	879.79	3.332	876.252	P-32B	18	III	44	0.71%	32X	876.352
32X	STH 35 NB	LINE G	12+50.00	42.53'	372304.55'	502948.70'	AE RC 18-INCH											875.940

STORM SEWER CHART

STR NO	ROAD NAME	REF LINE	REF STATION	OFFSET	NORTHING	EASTING	STR TYPE	GRATE ELEV (FT)	T.O.S. ELEV.	STR DEPTH (FT)	INVERT OUT (FT)	PIPE NO.	PIPE DIA (IN)	PIPE CLASS	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT IN (FT)
33A	STH 35 NB	LINE G	16+45.18	-28.25'	372593.06'	503226.56'	INLETS 2X3-FT	883.13	882.30	4.581	877.507	P-33A	18	III	15	1.99%	33B	
33B	STH 35 NB	LINE G	16+45.18	-13.53'	372580.60'	503234.63'	INLETS 2X3-FT	883.24	882.40	5.082	877.112	P-33B	18	III	69	2.00%	33X	877.212
33X	STH 35 NB	LINE G	16+45.18	55.52'	372522.70'	503272.14'	AE RC 18-INCH											875.732
35A	STH 35 NB	LINE G	21+74.79	-52.80'	372873.26'	503682.76'	INLETS 2X3-FT	886.42	885.59	3.624	881.799	P-35A	12	III	122	0.68%	35B	
35B	STH 35 NB	LINE G	20+54.62	-55.37'	372822.39'	503571.98'	INLETS 2X3-FT	886.36	885.53	4.455	880.867	P-35B	18	III	44	0.63%	35C	880.967
35C	STH 35 NB	LINE G	20+54.61	-11.30'	372783.16'	503591.77'	INLETS 2X3-FT	885.38	884.55	3.855	880.488	P-35C	18	III	10	0.50%	35D	880.588
35D	STH 35 NB	LINE G	20+54.62	-1.53'	372774.33'	503596.23'	INLETS 4-FT DIAMETER	885.47	884.64	4.081	880.352	P-35D	18	III	68	0.50%	35X	880.439
35X	STH 35 NB	LINE G	20+92.14	55.41'	372740.04'	503654.95'	AE RC 18-INCH											880.012
36A	STH 35 NB	LINE G	23+30.00	-52.54'	372937.39'	503824.77'	INLETS 2X3-FT	886.77	885.94	3.082	882.647	P-36A	18	III	44	0.71%	36B	
36B	STH 35 NB	LINE G	23+30.00	-8.48'	372897.34'	503842.85'	INLETS 2X3-FT	887.11	886.28	3.832	882.237	P-36B	18	III	7	0.70%	36C	882.337
36C	STH 35 NB	LINE G	23+30.00	-1.53'	372890.89'	503845.77'	INLETS 2X3-FT	887.23	886.39	4.082	882.104	P-36C	18	III	48	1.00%	36X	882.187
36X	STH 35 NB	LINE G	23+30.00	46.53'	372847.15'	503865.52'	AE RC 18-INCH											881.623
37A	STH 35 NB	LINE G	27+90.80	-61.61'	373135.28'	504241.03'	INLETS 2X3-FT	889.82	888.99	3.582	885.201	P-37A	18	III	21	0.99%	37B	
37B	STH 35 NB	LINE G	27+94.47	-40.93'	373117.99'	504252.84'	INLETS 4-FT DIAMETER	890.18	889.35	4.249	884.894	P-37B	18	III	40	0.68%	37C	884.994
37C	STH 35 NB	LINE G	27+88.00	-1.53'	373079.37'	504263.19'	INLETS 4-FT DIAMETER	890.14	889.31	4.582	884.521	P-37C	18	III	21	1.26%	37D	884.621
37D	STH 35 NB	LINE G	27+88.00	19.53'	373060.28'	504271.81'	INLETS 2X3-FT	889.78	888.95	4.582	884.157	P-37D	18	III	10	1.56%	37E	884.527
37E	STH 35 NB	LINE G	27+88.01	29.49'	373051.10'	504275.95'	INLETS 2X3-FT	889.51	888.68	4.581	883.886	P-37E	18	III	19	1.07%	37F	884.000
37F	STH 35 NB	LINE G	27+87.99	48.82'	373033.58'	504283.86'	INLETS 4-FT DIAMETER	889.20	888.37	4.582	883.580	P-37F	18	III	26	0.80%	37X	883.680
37X	STH 35 NB	LINE G	27+91.40	74.54'	373011.49'	504297.57'	AE RC 18-INCH											883.372
38A	STH 35 NB	LINE G	29+26.27	-32.91'	373151.05'	504397.54'	INLETS 2X3-FT	891.00	890.16	3.582	886.374	P-38A	18	III	25	0.50%	38C	
38B	STH 35 NB	LINE G	29+42.96	-48.19'	373162.22'	504421.96'	INLETS 2X2.5-FT	890.90	889.94	2.983	886.790	P-38B	12	III	8	0.50%	38C	
38C	STH 35 NB	LINE G	29+44.83	-40.33'	373154.02'	504422.33'	INLETS 4-FT DIAMETER	890.89	889.93	3.570	886.149	P-38C	18	III	88	0.50%	38D	886.429
38D	STH 35 NB	LINE G	30+24.57	-1.48'	373097.74'	504489.36'	INLETS 4-FT DIAMETER	891.89	890.93	5.114	885.611	P-38D	18	III	25	0.50%	38E	885.711
38E	STH 35 NB	LINE G	30+24.91	23.57'	373072.83'	504491.05'	INLETS 4-FT DIAMETER	892.01	891.17	5.581	885.385	P-38E	18	III	52	0.70%	38X	885.485
38X	STH 35 NB	LINE G	30+51.78	54.10'	373054.78'	504539.81'	AE RC 18-INCH											885.021
39A	STH 35 NB	LINE G	29+17.20	-123.95'	373242.82'	504388.93'	INLETS 4-FT DIAMETER	890.72	889.89	3.583	886.094	P-39A	18	III	21	0.50%	39B	
39B	STH 35 NB	LINE G	29+27.53	-123.10'	373240.46'	504409.51'	INLETS 4-FT DIAMETER	891.05	890.22	4.084	885.925	P-39B	18	III	16	0.50%	39C	885.990
39C	STH 35 NB	LINE G	29+35.24	-119.20'	373234.33'	504424.06'	INLETS 4-FT DIAMETER	891.38	890.55	4.584	885.756	P-39C	18	III	47	0.62%	39E	885.846
39D	STH 35 NB	LINE G	29+72.23	-121.98'	373224.43'	504473.43'	INLETS 2X2.5-FT	891.88	890.92	5.097	885.616	P-39D	18	III	25	0.60%	39E	
39E	STH 35 NB	LINE G	29+60.57	-144.12'	373248.95'	504468.56'	INLETS 4-FT DIAMETER	891.99	891.16	5.584	885.366	P-39E	18	III	74	0.75%	39X	885.466
39X	STH 35 NB	LINE G	31+52.66	-170.05'	373304.25'	504517.72'	AE RC 18-INCH											884.811

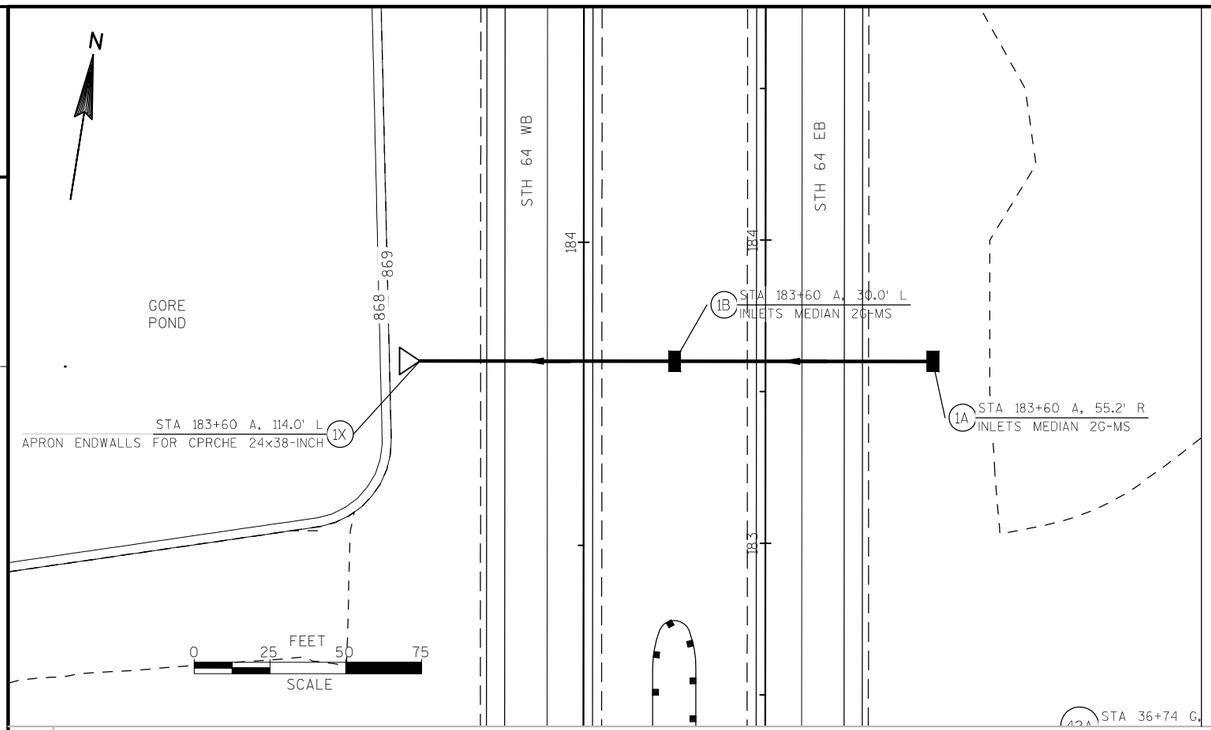
STORM SEWER CHART

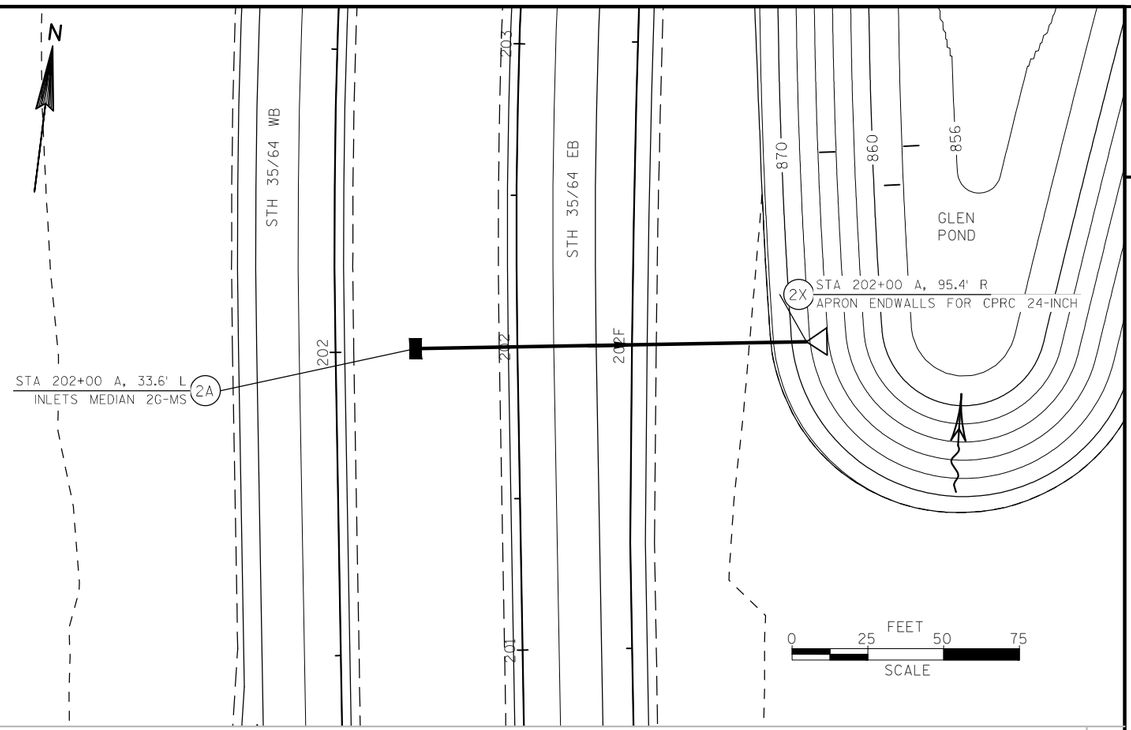
STR NO	ROAD NAME	REF LINE	REF STATION	OFFSET	NORTHING	EASTING	STR TYPE	GRATE ELEV (FT)	T.O.S. ELEV.	STR DEPTH (FT)	INVERT OUT (FT)	PIPE NO.	PIPE DIA (IN)	PIPE CLASS	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT IN (FT)
40A	STH 35 NB	LINE G	31+34.87	-1.47'	373148.41'	504585.24'	INLETS 2X3-FT	893.35	892.51	3.581	888.724	P-40	18	III	43	0.75%	40X	
40X	STH 35 NB	LINE G	31+34.87	41.53'	373111.74'	504607.70'	AE RC 18-INCH											888.402
41A	STH 35 NB	LINE G	31+50.14	-39.67'	373189.38'	504579.47'	INLETS 2X3-FT	893.33	892.50	3.289	889.000	P-41A	18	III	20	0.49%	41B	
41B	STH 35 NB	LINE G	31+63.32	-54.19'	373209.06'	504585.04'	INLETS 2X3-FT	892.98	892.15	3.391	888.550	P-41B	18	III	48	0.50%	41X	888.900
41X	STH 35 NB	LINE G	31+91.63	-89.63'	373255.24'	504598.12'	AE RC 18-INCH											888.310
42A	STH 35 NB	LINE G	36+73.90	-26.50'	373344.47'	505087.97'	INLETS 4-FT DIAMETER	897.29	896.04	4.084	891.750	P-42A	18	III	22	4.81%	42B	
42B	STH 35 NB	LINE G	36+82.24	-6.86'	373327.99'	505102.16'	INLETS 4-FT DIAMETER	897.57	896.74	3.832	892.696	P-42B	18	III	5	1.00%	42C	892.796
42C	STH 35 NB	LINE G	36+82.21	-1.46'	373322.73'	505103.37'	INLETS 4-FT DIAMETER	897.57	896.73	4.081	892.445	P-42C	18	III	24	1.37%	42D	892.642
42D	STH 35 NB	LINE G	36+70.00	18.97'	373299.84'	505097.48'	INLETS 4-FT DIAMETER	897.16	896.33	4.095	892.022	P-42D	18	III	26	0.81%	42X	892.122
42X	STH 35 NB	LINE G	36+72.08	44.66'	373275.87'	505106.95'	AE RC 18-INCH											891.814
43A	STH 35 NB	LINE G	39+49.75	-29.18'	373341.06'	505347.96'	INLETS 2X3-FT	895.65	894.82	3.583	891.025	P-43A	18	III	25	0.82%	43C	
43B	STH 35 NB	LINE G	39+30.28	-49.18'	373353.32'	505323.27'	INLETS 2X2.5-FT	895.55	894.60	3.058	891.371	P-43B	12	III	10	0.50%	43C	
43C	STH 35 NB	LINE G	39+26.61	-39.84'	373343.32'	505323.06'	INLETS 4-FT DIAMETER	895.54	894.58	3.650	890.721	P-43C	18	III	78	0.50%	43D	890.821
43D	STH 35 NB	LINE G	38+57.00	-1.50'	373286.00'	505269.94'	INLETS 4-FT DIAMETER	896.51	895.55	5.120	890.226	P-43D	18	III	25	0.50%	43H	890.330
43E	STH 35 NB	LINE G	38+57.00	23.47'	373261.38'	505274.08'	INLETS 2X3-FT	895.50	894.67	3.580	890.882	P-43E	18	III	21	1.13%	43F	
43F	STH 35 NB	LINE G	39+26.63	46.28'	373262.20'	505351.97'	INLETS 4-FT DIAMETER	895.92	895.09	4.332	890.546	P-43F	18	III	16	0.50%	43G	890.646
43G	STH 35 NB	LINE G	39+09.30	36.28'	373265.63'	505331.38'	INLETS 4-FT DIAMETER	895.97	895.14	4.565	890.365	P-43G	18	III	45	0.59%	43H	890.465
43H	STH 35 NB	LINE G	38+98.16	24.61'	373273.25'	505317.16'	INLETS 4-FT DIAMETER	896.62	895.79	5.582	890.001	P-43H	18	III	75	0.80%	43X	890.101
43X	STH 35 NB	LINE G	38+24.82	75.10'	373215.86'	505214.47'	AE RC 18-INCH											889.401
44A	CTH E EB	LINE G	41+64.25	-53.80'	373448.99'	505531.50'	INLETS 2X3-FT	890.24	889.41	3.582	885.619	P-44A	18	III	23	2.23%	44B	
44B	CTH E EB	LINE G	41+62.78	-31.10'	373427.82'	505539.81'	INLETS 2X3-FT	890.64	889.81	4.586	885.012	P-44B	18	III	30	1.00%	44C	885.112
44C	CTH E EB	LINE G	41+62.88	-1.50'	373401.05'	505552.46'	INLETS 2X3-FT	890.08	889.24	4.568	884.466	P-44C	18	III	50	1.00%	44X	884.716
44X	CTH E EB	LINE G	41+62.88	48.50'	373355.78'	505573.68'	AE RC 18-INCH											883.966
45A	CTH E EB	LINE G	44+65.25	-11.31'	373520.66'	505831.25'	INLETS 2X3-FT	883.01	882.18	4.544	877.423	P-45A	18	III	10	1.50%	45B	
45B	CTH E EB	LINE G	44+65.25	-1.50'	373511.19'	505833.80'	INLETS 2X3-FT	882.85	882.02	4.776	877.037	P-45B	18	III	48	1.50%	45X	877.276
45X	CTH E EB	LINE G	44+65.25	46.50'	373464.84'	505846.27'	AE RC 18-INCH											876.317
48A	SE RAMP	LINE D	179+50.22	30.42'	373082.31'	505338.94'	INLETS 2X3-FT	893.86	893.03	4.584	888.235	P-48A	18	III	19	1.57%	48B	
48B	SE RAMP	LINE D	179+55.57	12.19'	373082.77'	505319.94'	INLETS 4-FT DIAMETER	893.96	893.13	5.084	887.837	P-48B	18	III	11	0.50%	48C	887.937
48C	SE RAMP	LINE D	179+56.71	1.50'	373081.11'	505309.32'	INLETS 4-FT DIAMETER	893.72	892.88	4.959	887.717	P-48C	18	III	48	0.75%	48X	887.783
48X	SE RAMP	LINE D	179+44.89	-45.02'	373057.68'	505267.43'	AE RC 18-INCH											887.357

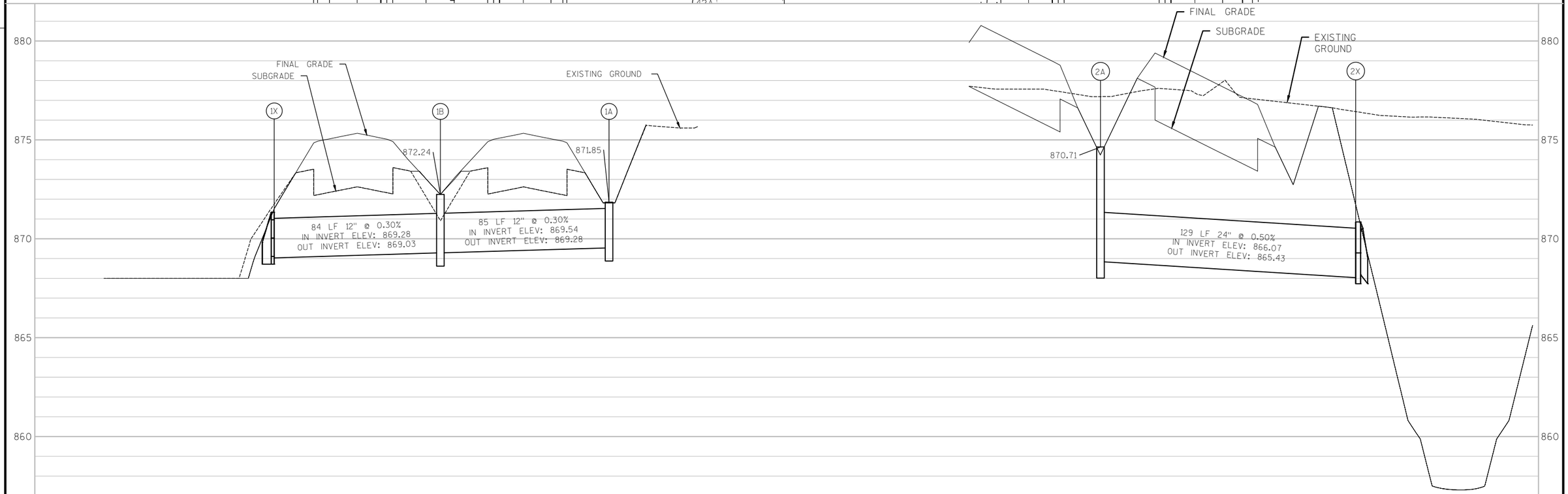
2

STORM SEWER CHART

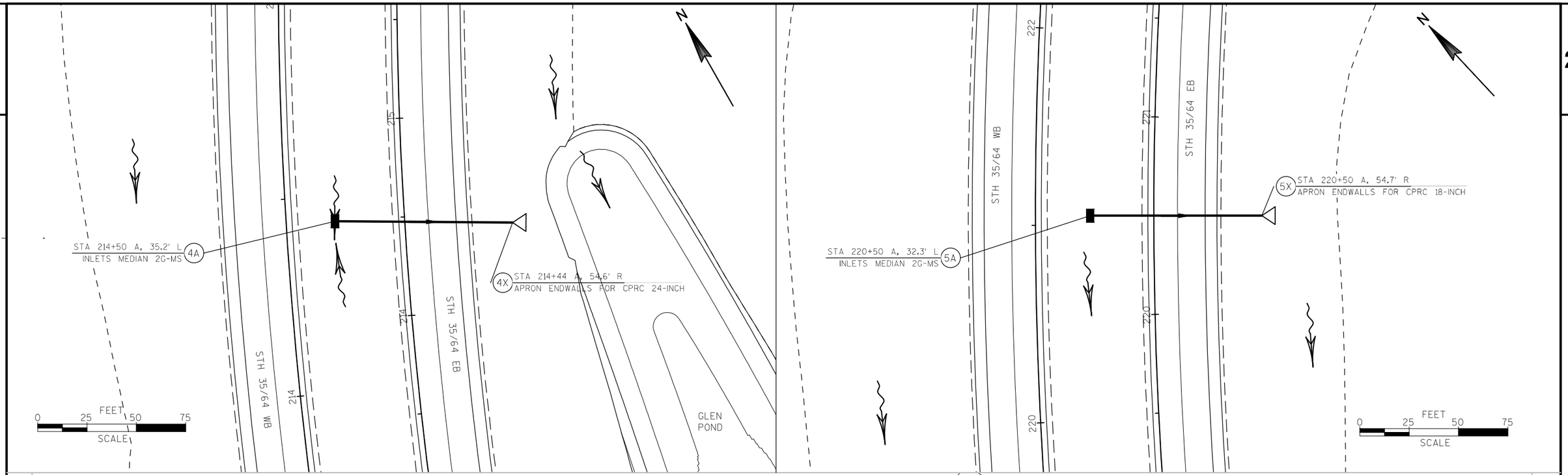
STR NO	ROAD NAME	REF LINE	REF STATION	OFFSET	NORTHING	EASTING	STR TYPE	GRATE ELEV (FT)	T.O.S. ELEV.	STR DEPTH (FT)	INVERT OUT (FT)	PIPE NO.	PIPE DIA (IN)	PIPE CLASS	PIPE LENGTH (LF)	SLOPE (%)	DRAINS TO	INVERT IN (FT)
49A	STH 35/NW Ramp	LINE E	181+80.00	-1.50'	373316.83'	504453.56'	INLETS 2X3-FT	891.06	890.23	3.583	886.439	P-49A	18	III	21	1.37%	49B	
49B	STH 35/NW Ramp	LINE E	181+80.00	19.50'	373317.94'	504474.53'	INLETS 2X3-FT	891.41	890.58	4.317	886.052	P-49B	18	III	30	1.25%	49X	886.152
49X	STH 35/NW Ramp	LINE E	181+80.00	49.494	373319.52'	504504.48'	AE RC 18-INCH											885.677
50A	STH 35/NW Ramp	LINE E	183+00.00	-30.81'	373422.44'	504392.56'	INLETS 2X3-FT	890.16	889.33	3.500	885.618	P-50A	18	III	19	0.59%	50B	
50B	STH 35/NW Ramp	LINE E	182+94.77	-12.57'	373423.08'	504411.51'	INLETS 4-FT DIAMETER	890.45	889.61	4.000	885.405	P-50B	18	III	11	1.04%	50C	885.505
50C	STH 35/NW Ramp	LINE E	182+94.65	-1.50'	373426.39'	504422.08'	INLETS 4-FT DIAMETER	890.23	889.40	4.000	885.190	P-50C	18	III	25	0.77%	50D	885.290
50D	STH 35/NW Ramp	LINE E	183+01.34	22.20'	373440.05'	504442.57'	INLETS 4-FT DIAMETER	889.44	888.61	3.500	884.900	P-50D	18	III	23	1.15%	50X	884.919
50X	STH 35/NW Ramp	LINE E	182+99.96	45.16'	373445.82'	504464.84'	AE RC 18-INCH											884.635
53A	STH 35 NB	LINE G	33+87.27	18.50'	373217.94'	504826.88'	INLETS 2X2.5-FT	895.86	894.61	4.624	889.780	P-53	18	III	28	1.00%	53X	
53X	STH 35 NB	LINE G	33+87.27	46.50'	373191.16'	504835.03'	AE RC 18-INCH											889.500



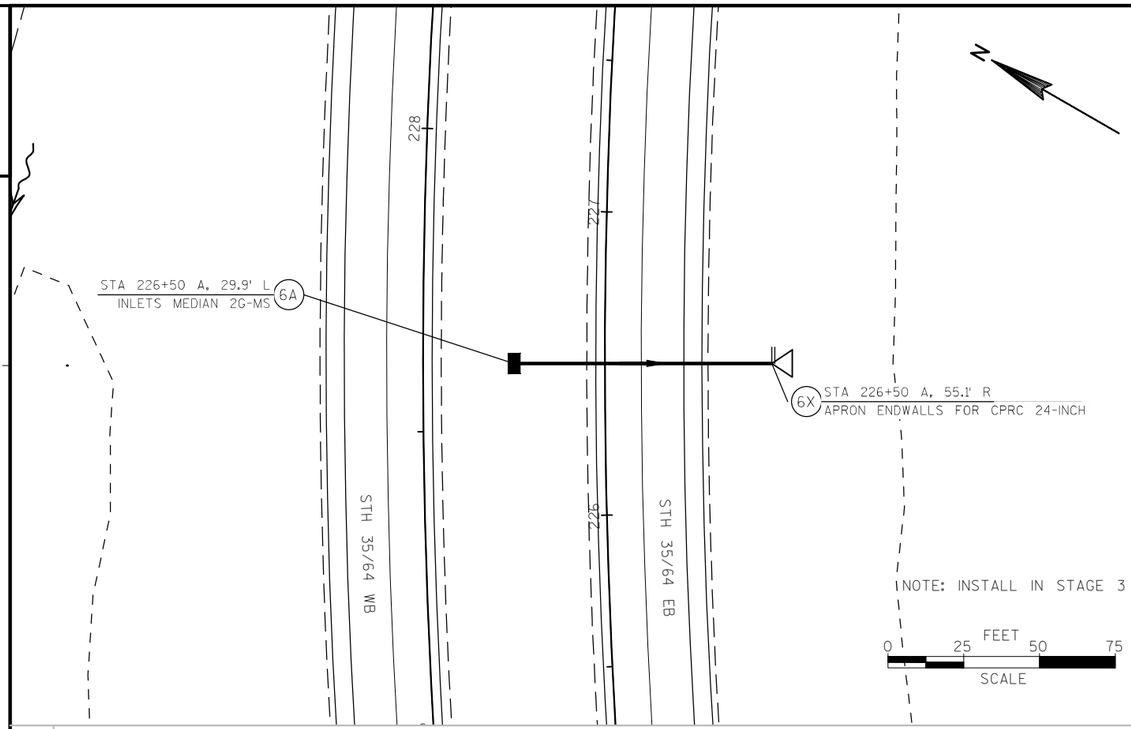


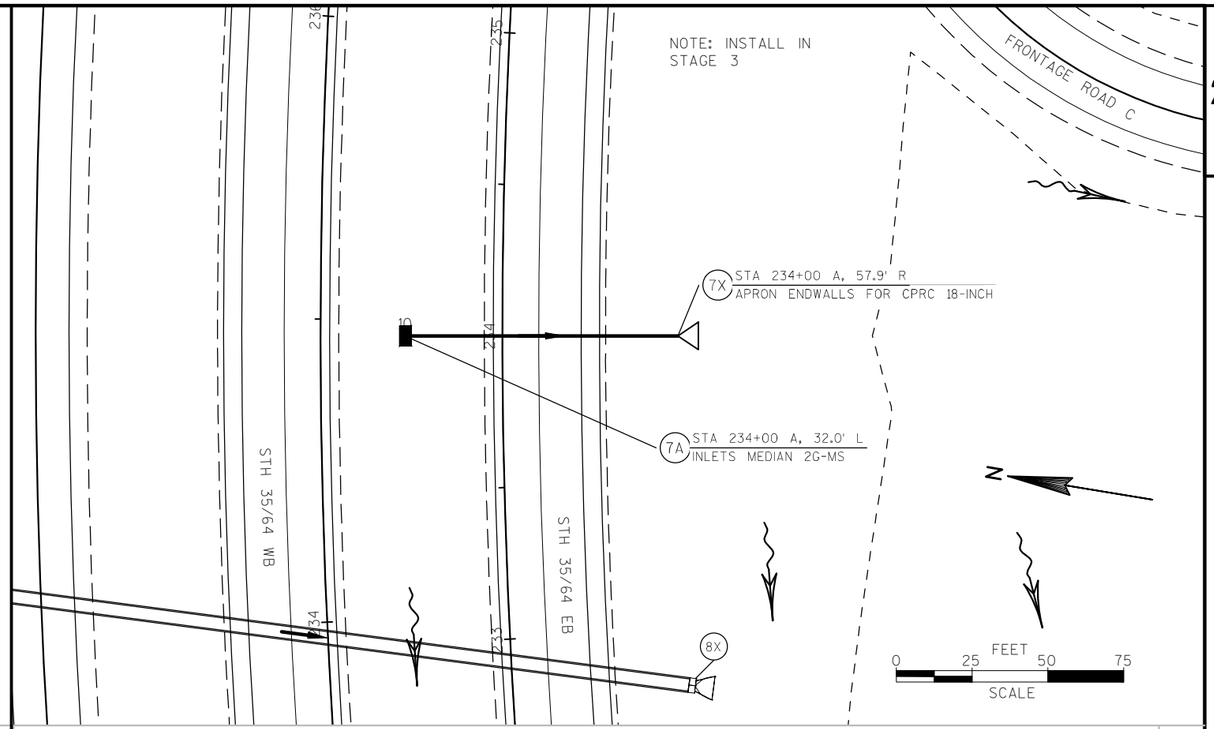


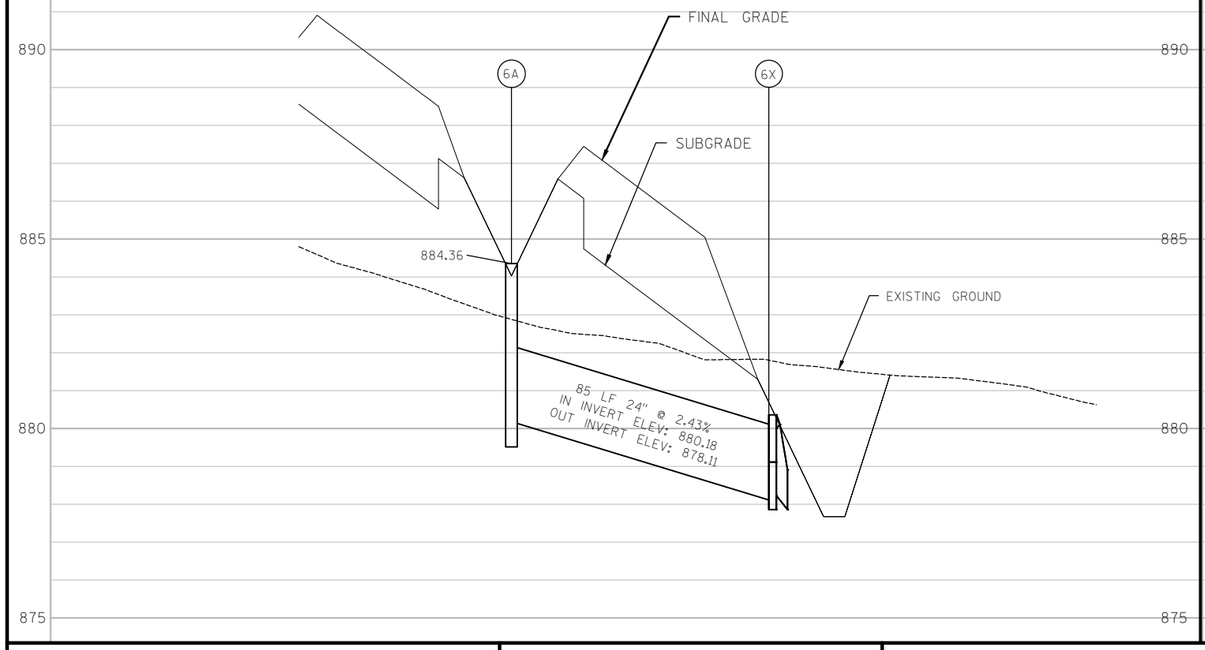
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35/64	SHEET 184	E

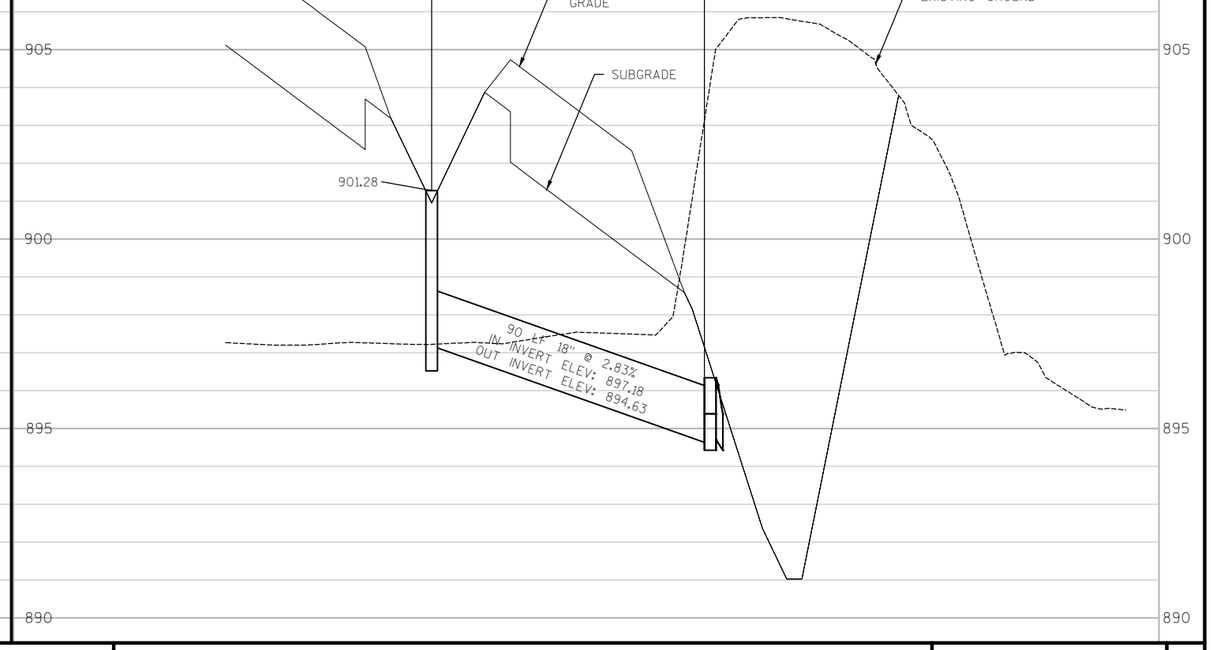


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35/64	SHEET 185	E

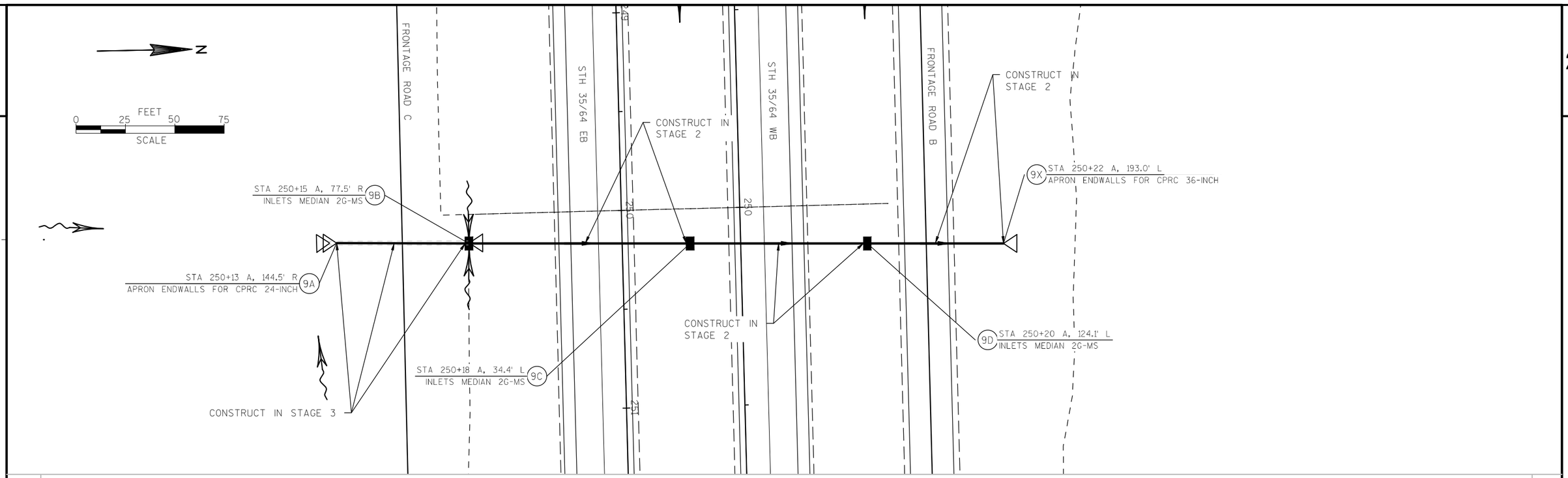


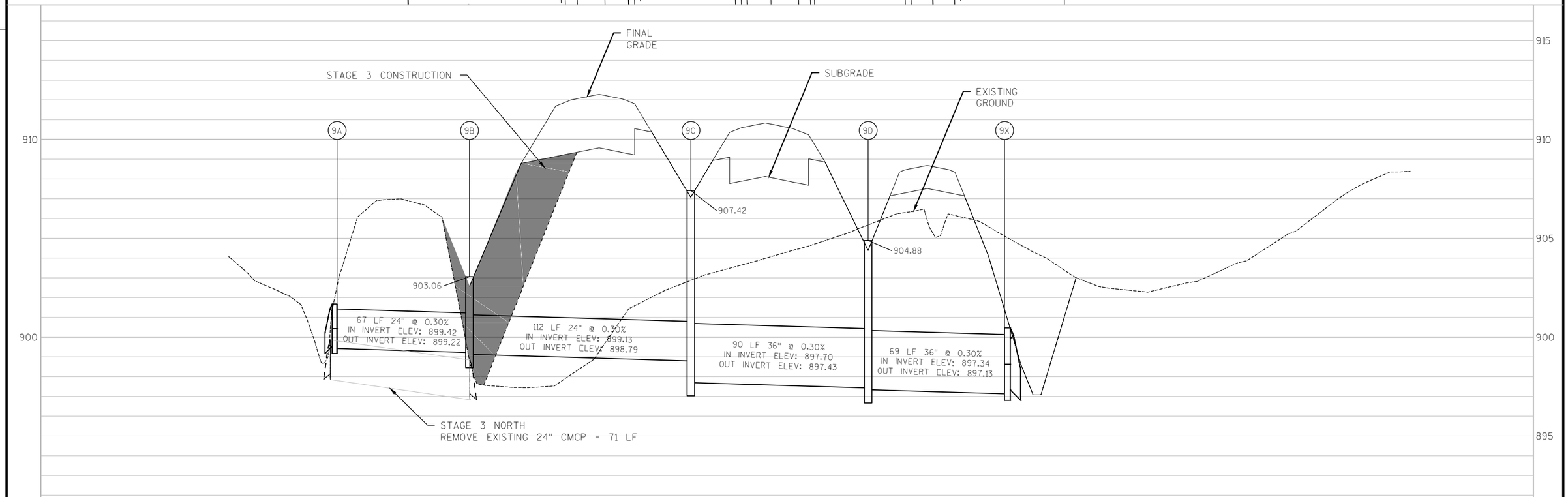






PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35/64 - PIPES 6, 7	SHEET 186	E





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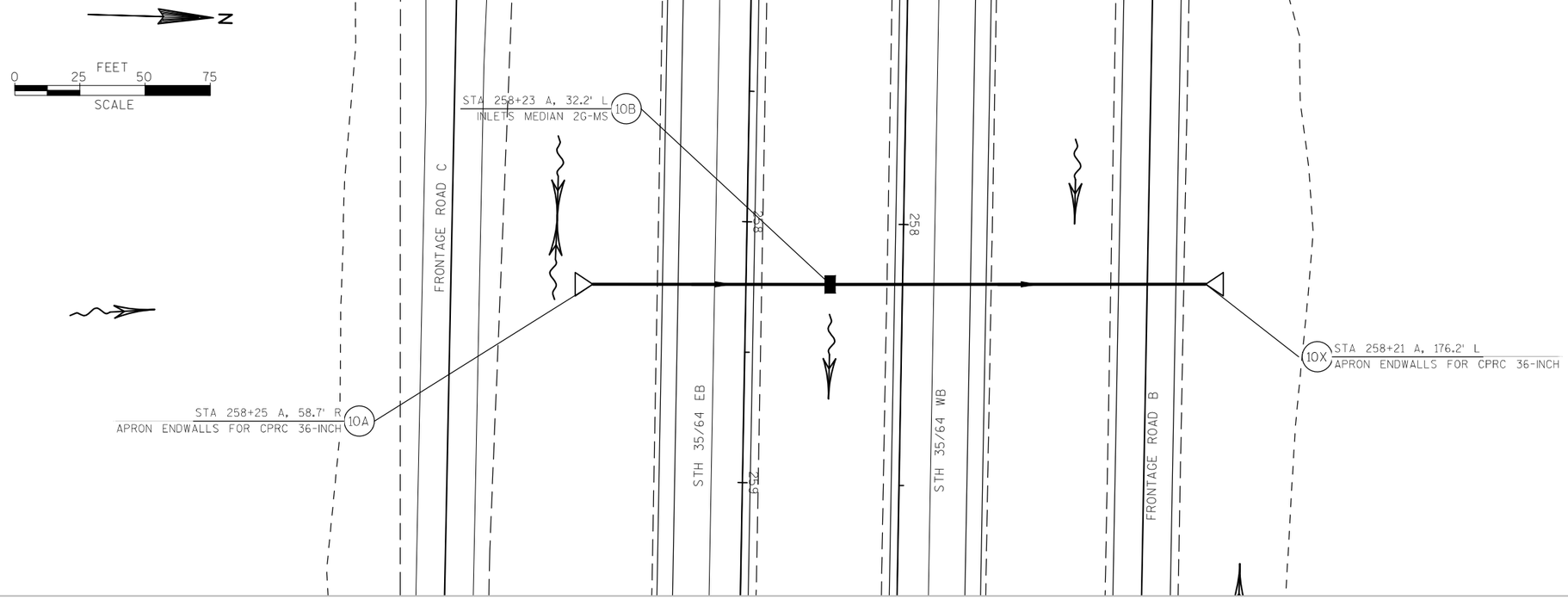

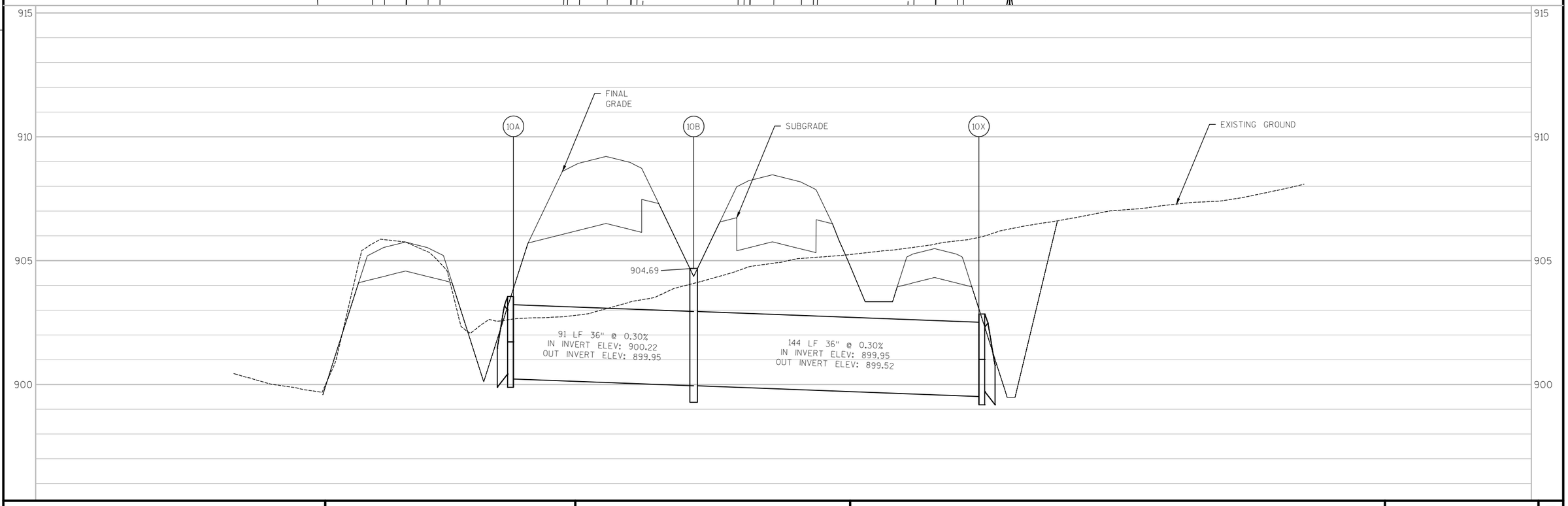

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35/64 - PIPE 10	SHEET 188	E

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LAYOUT NAME - PROP_DRAINAGE_ALIGNS - 05
PLOT DATE : 9/25/2014 10:20 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:50_XREF
WISDOT/CADDS SHEET 41

2

2

STA 274+85 A, 26.1' L
INLETS MEDIAN 2G-MS
12A

STH 35/64 EB

STH 35/64 WB

272

274

N

0 25 50 75 FEET
SCALE

12X
STA 274+66 A, 107.9' L
APRON ENDWALLS FOR CPRC 18-INCH

930

925

920

915

CONSTRUCTION IN STAGE 3 NORTH

EXISTING GROUND

SUBGRADE

FINAL GRADE

12A

12X

918.77

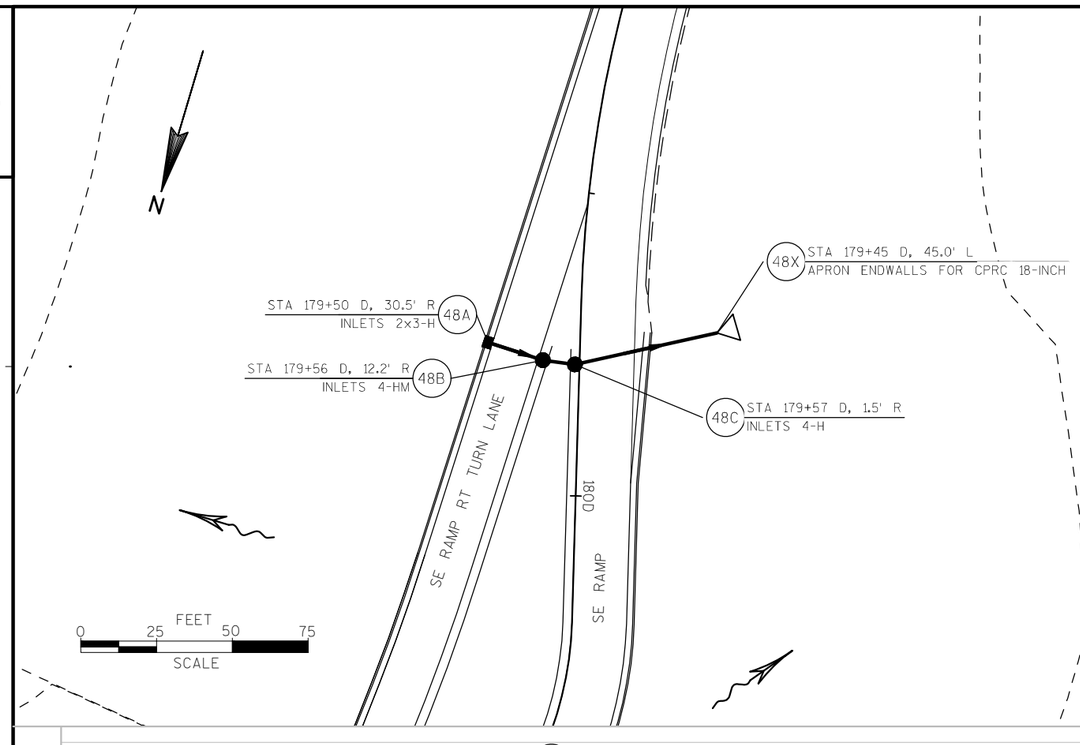
84 LF 18" @ 0.59%
IN INVERT ELEV: 916.06
OUT INVERT ELEV: 915.56

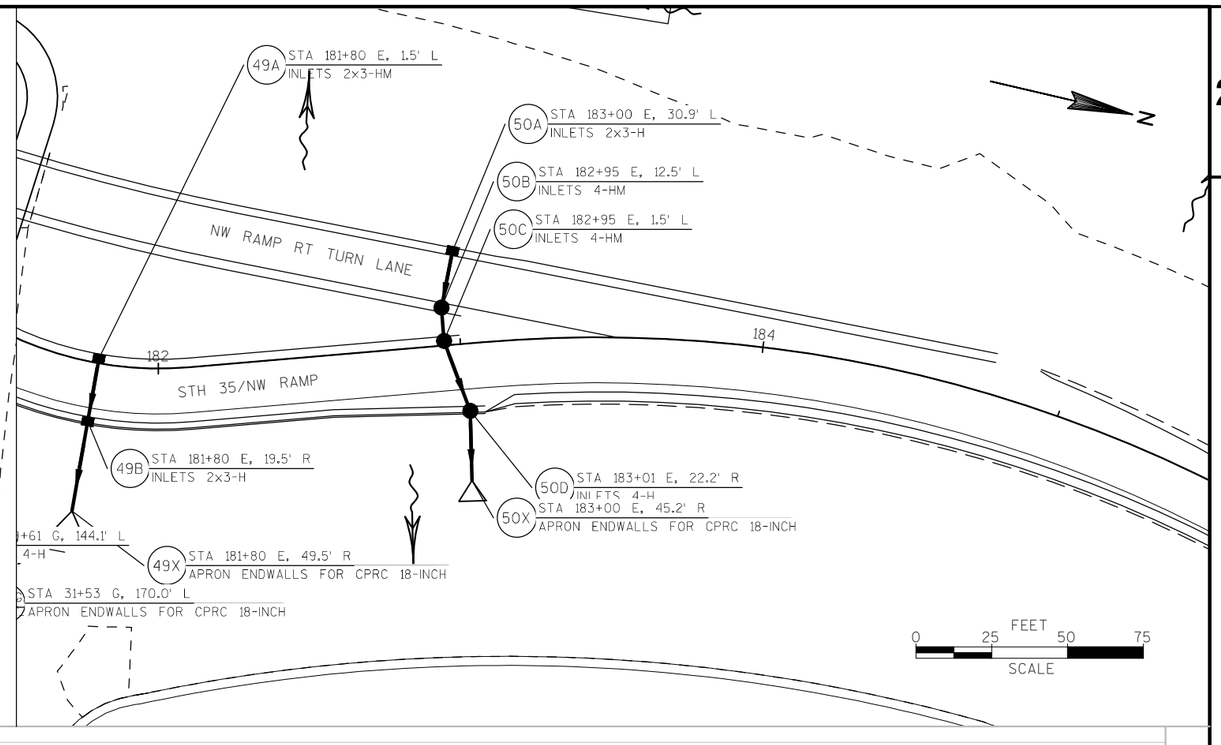
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35/64 - PIPE 12	SHEET 189	E

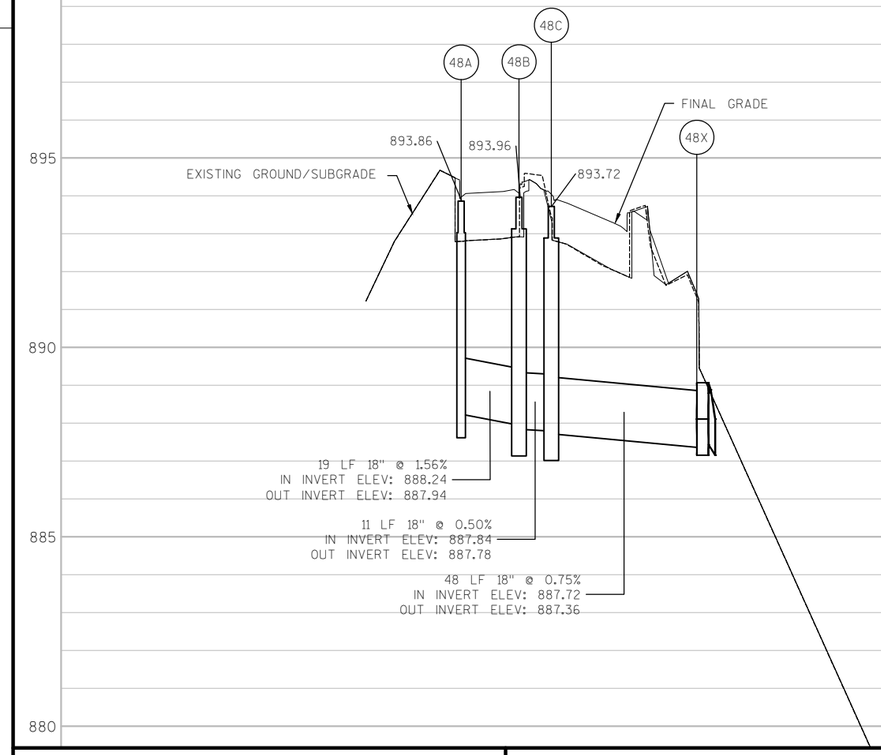
FILE NAME : N:\PDS\C3D\81100201\DESIGN\ALIPROFS\PROP_DRAINAGE_ALIGNS.DWG
LAYOUT NAME - PROP_DRAINAGE_ALIGNS - 06

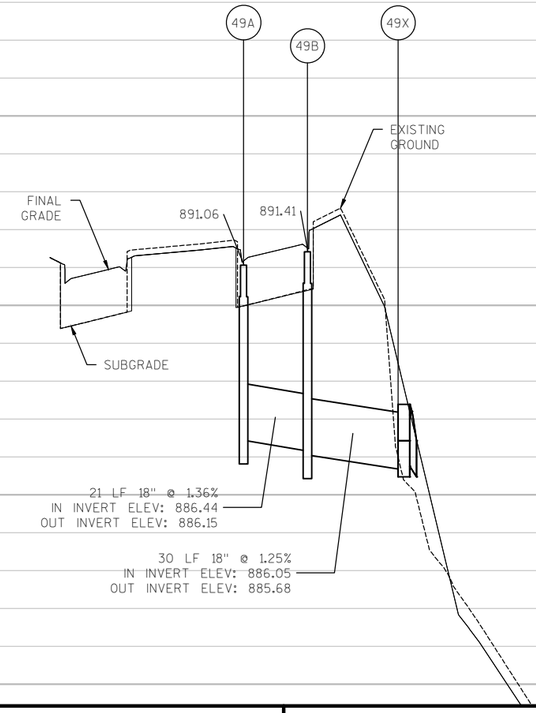
PLOT DATE : 9/25/2014 10:21 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:50_XREF

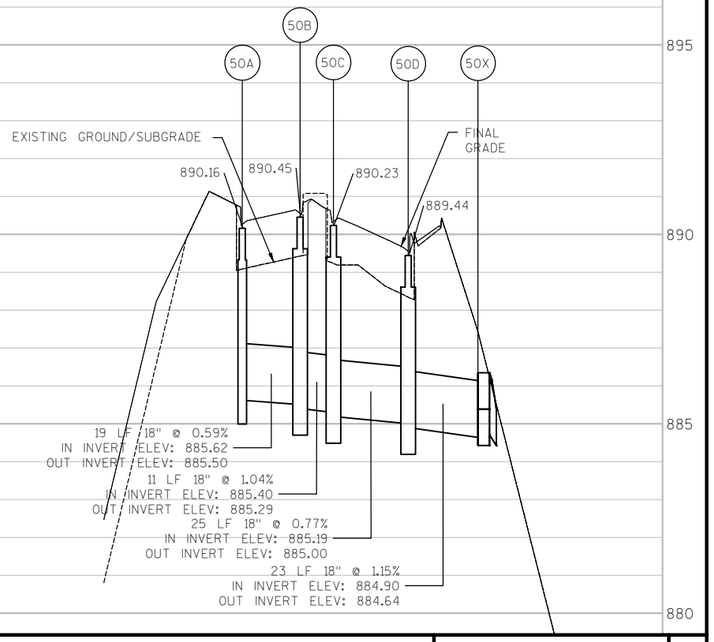
WISDOT/CADDS SHEET 41











PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - RAMPS	SHEET 190	E

STA 302+43 J, 26.4' L
INLETS 2x3-HM
25A

STA 302+33 J, 25.3' L
INLETS 2x3-HM
25B

STA 302+35 J, 5.4' L
INLETS 4-HM
STA 302+35 J, 27.6' R
APRON ENDWALLS FOR CPRC 24-INCH
25X

STA 302+45 J, 5.4' L
INLETS 2x3-HM
25C

STH 35 SB

STH 35 NB

302J

304J

306J

308J

STA 306+34 J, 22.5' L
INLETS 2x3-H
26A

STA 306+34 J, 1.5' L
INLETS 2x3-H
26B

STA 306+34 J, 19.5' R
INLETS 2x3-H
26C

STA 306+34 J, 29.4' R
INLETS 2x3-H
26D

STA 306+34 J, 48.9' R
INLETS 4-HM
26E

STA 306+21 J, 94.0' R
APRON ENDWALLS FOR CPRC 18-INCH
26X

54X

54A

STA 307+91 J, 37.8' L
INLETS 2x2.5-T
27A

STA 307+95 J, 29.1' L
INLETS 4-T
27B

STA 307+75 J, 16.8' L
INLETS 4-H
27C

STA 307+67 J, 1.5' L
INLETS 4-H
27D

STA 307+67 J, 19.5' R
INLETS 2x3-H
27E

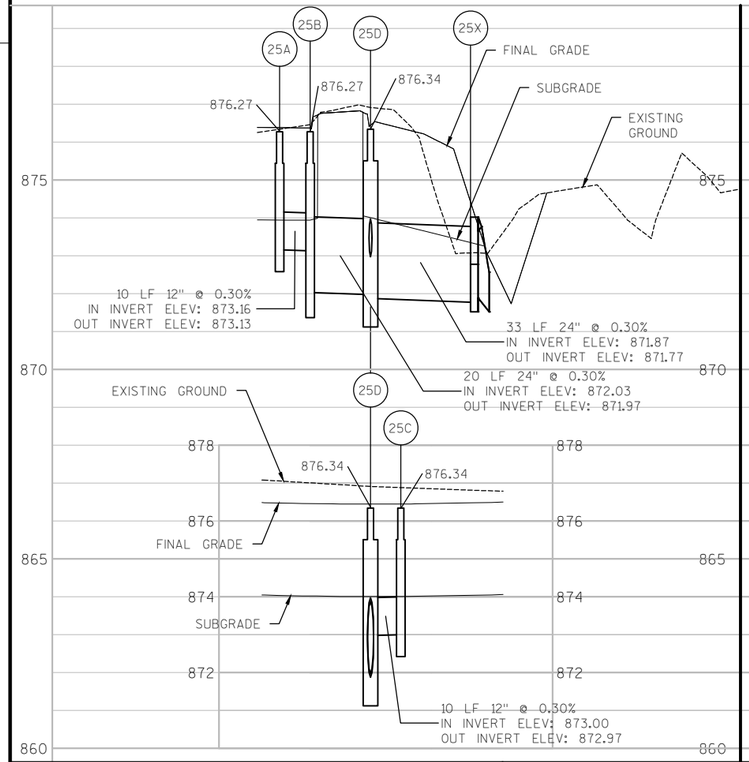
STA 307+67 J, 52.7' R
INLETS 4-H
27F

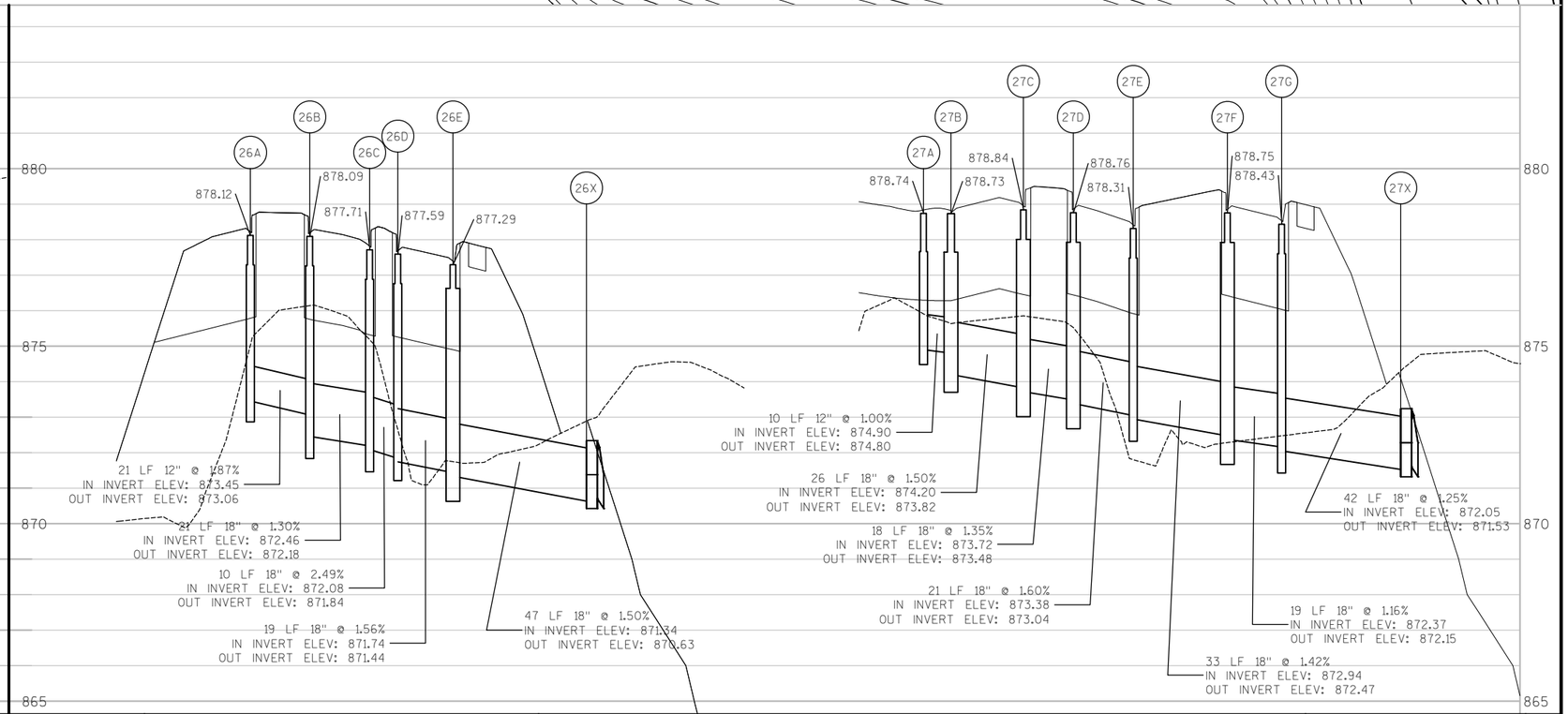
STA 307+71 J, 71.6' R
INLETS 2x3-HM
27G

STA 307+92 J, 112.6' R
APRON ENDWALLS FOR CPRC 18-INCH
27X

874
870
867
866
864

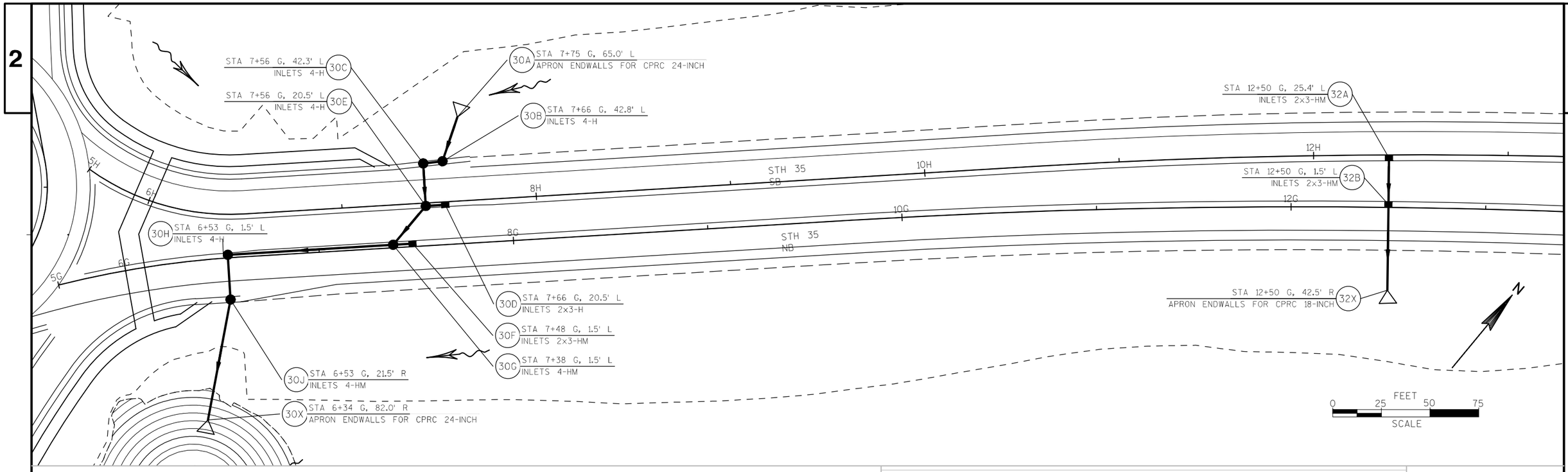
SCALE
0 25 50 75 FEET

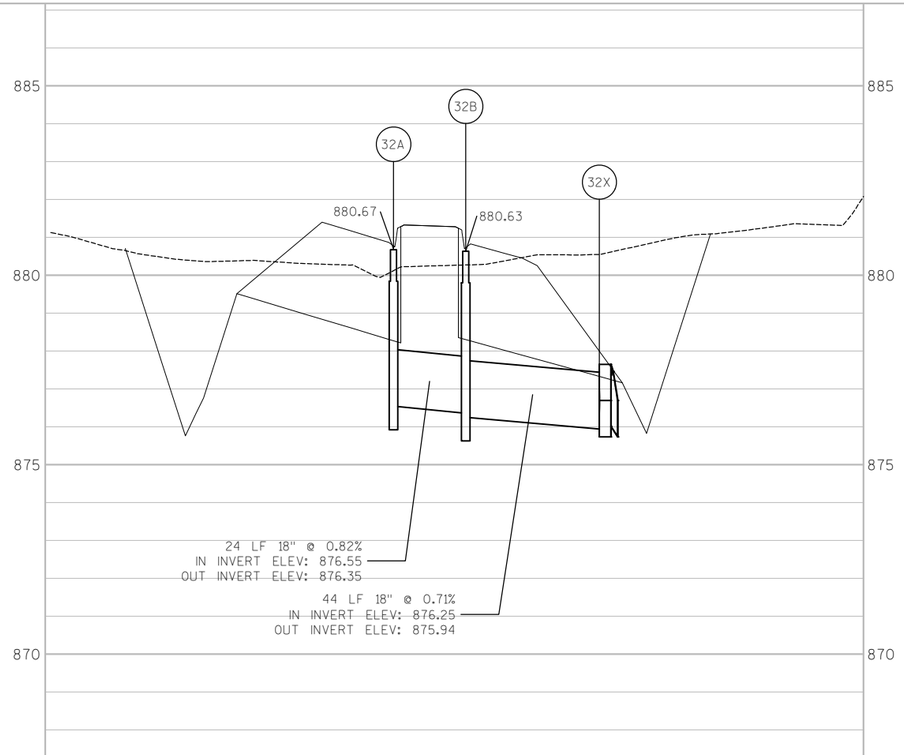




PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35	SHEET 191	E

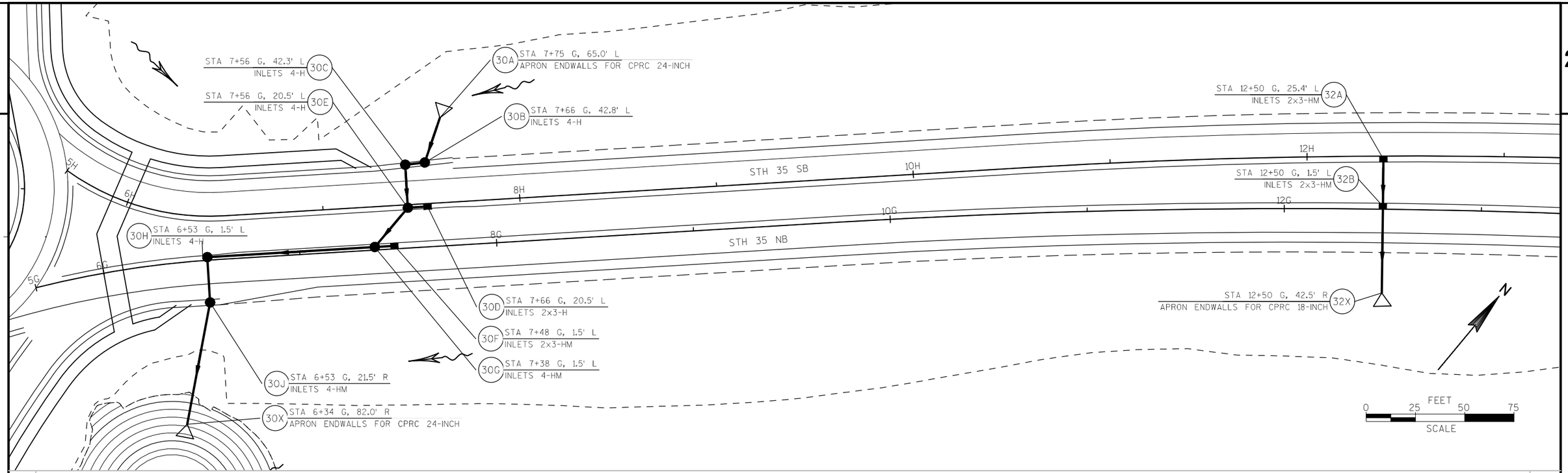
FILE NAME : N:\PDS\C3D\81100201\DESIGN\ALIPROFS\PROP_DRAINAGE_ALIGNS.DWG
LAYOUT NAME - PROP_DRAINAGE_ALIGNS - 09
PLOT DATE : 9/25/2014 10:22 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:50_XREF
WISDOT/CADDS SHEET 41

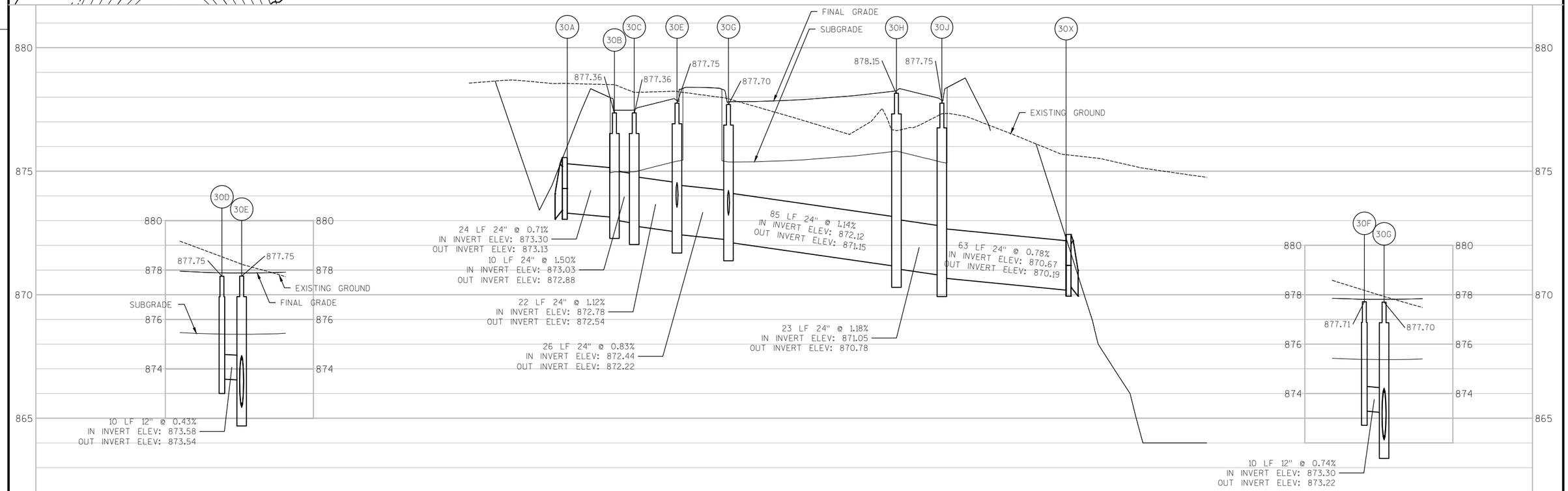




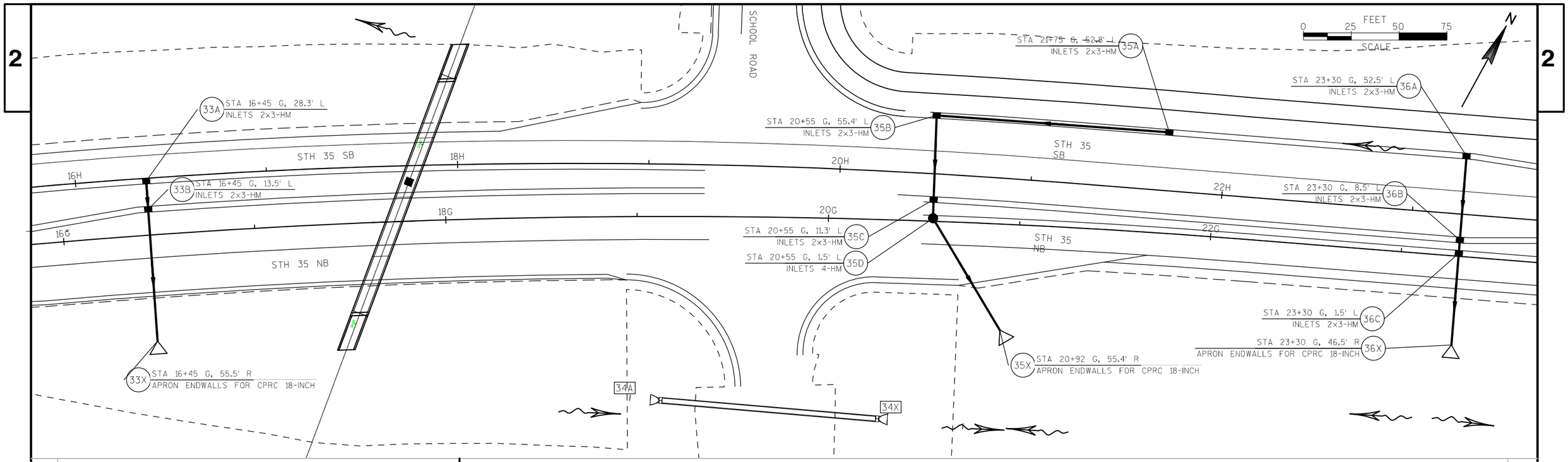
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35	SHEET 192	E

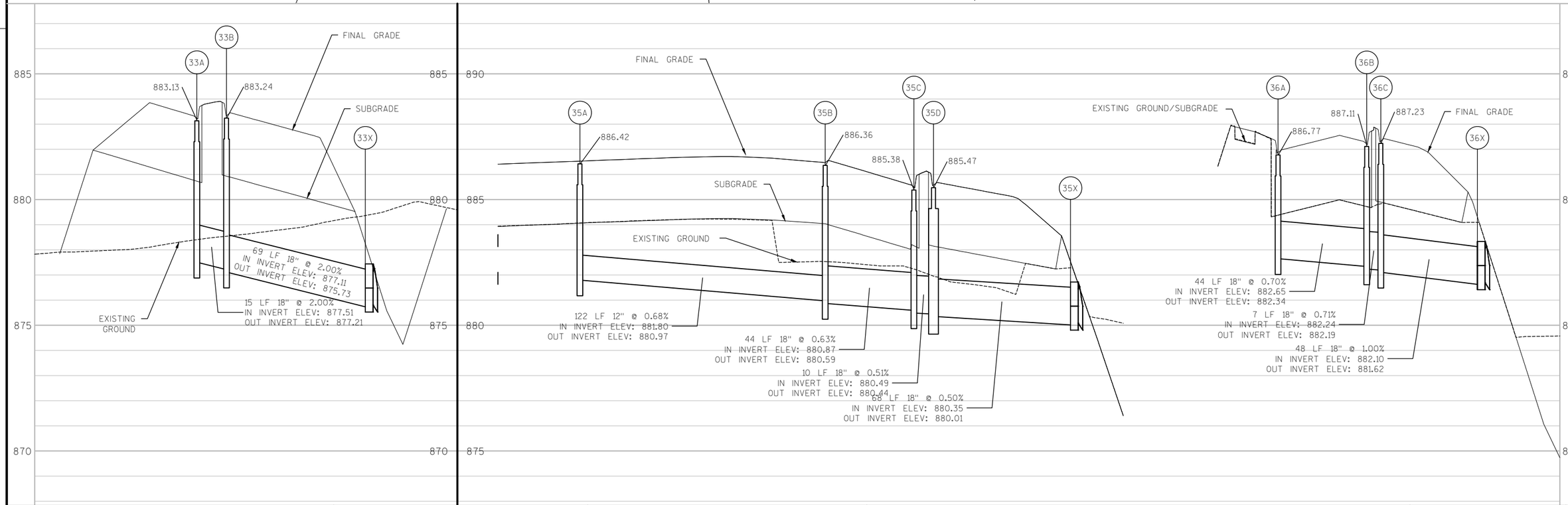
2



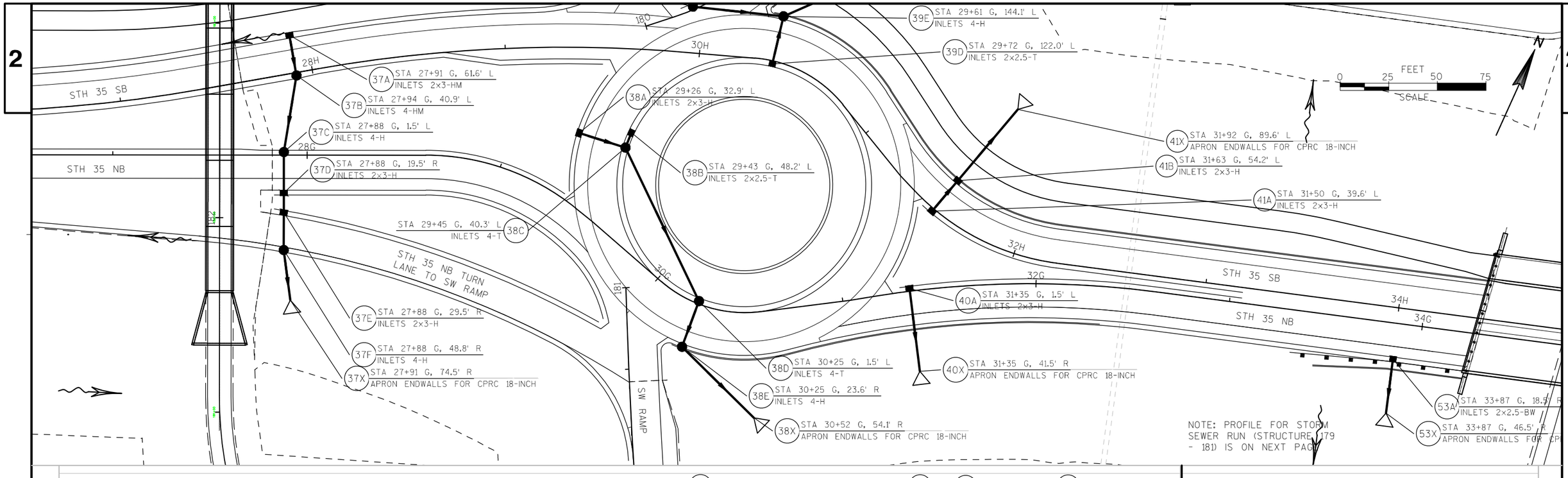


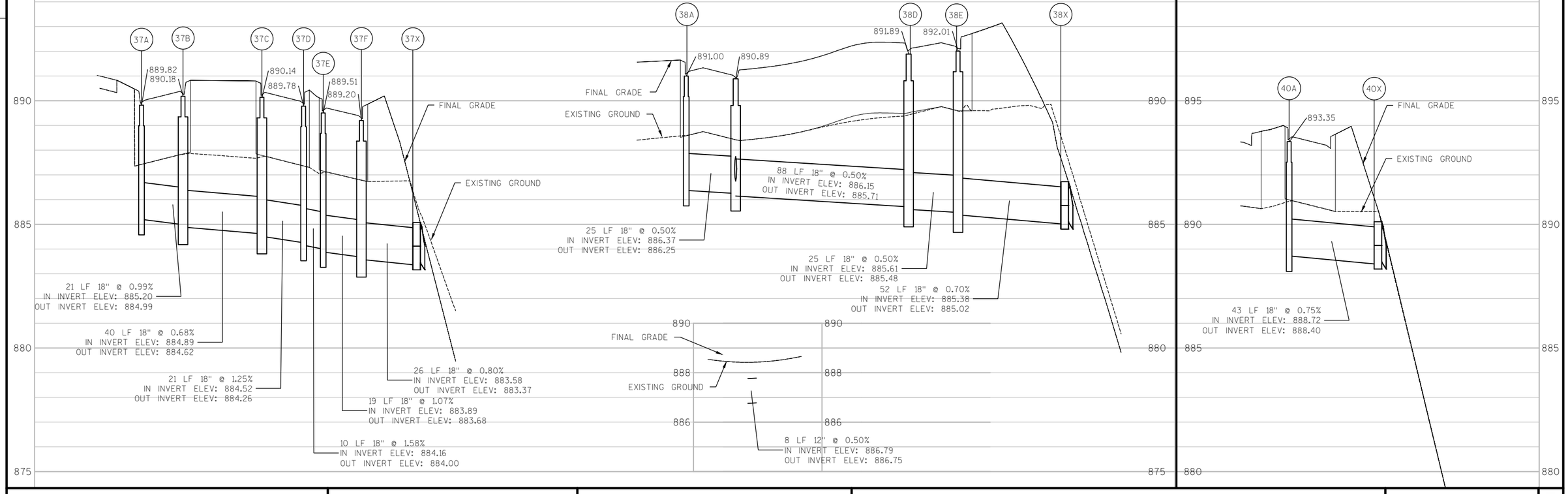
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35	SHEET 193	E





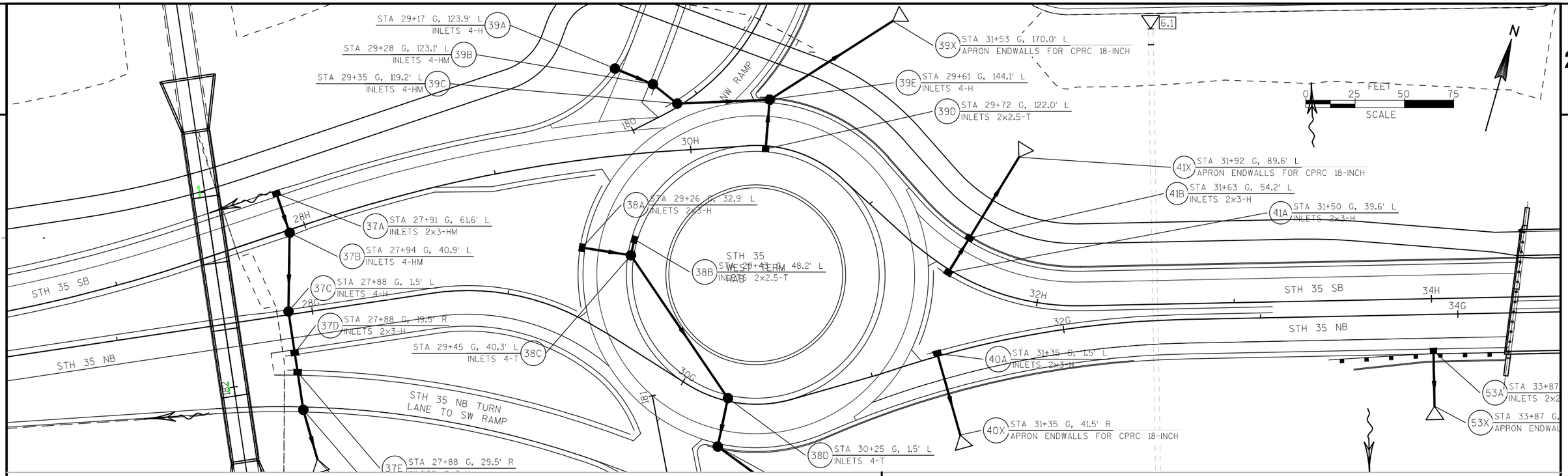
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35	SHEET 194 E

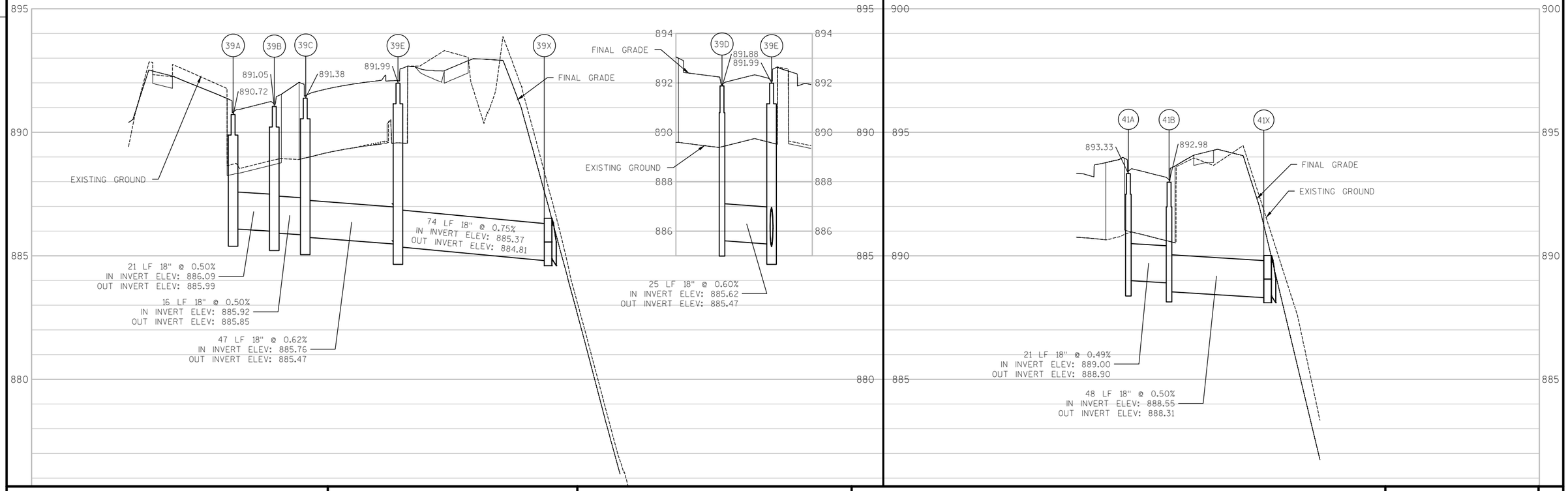




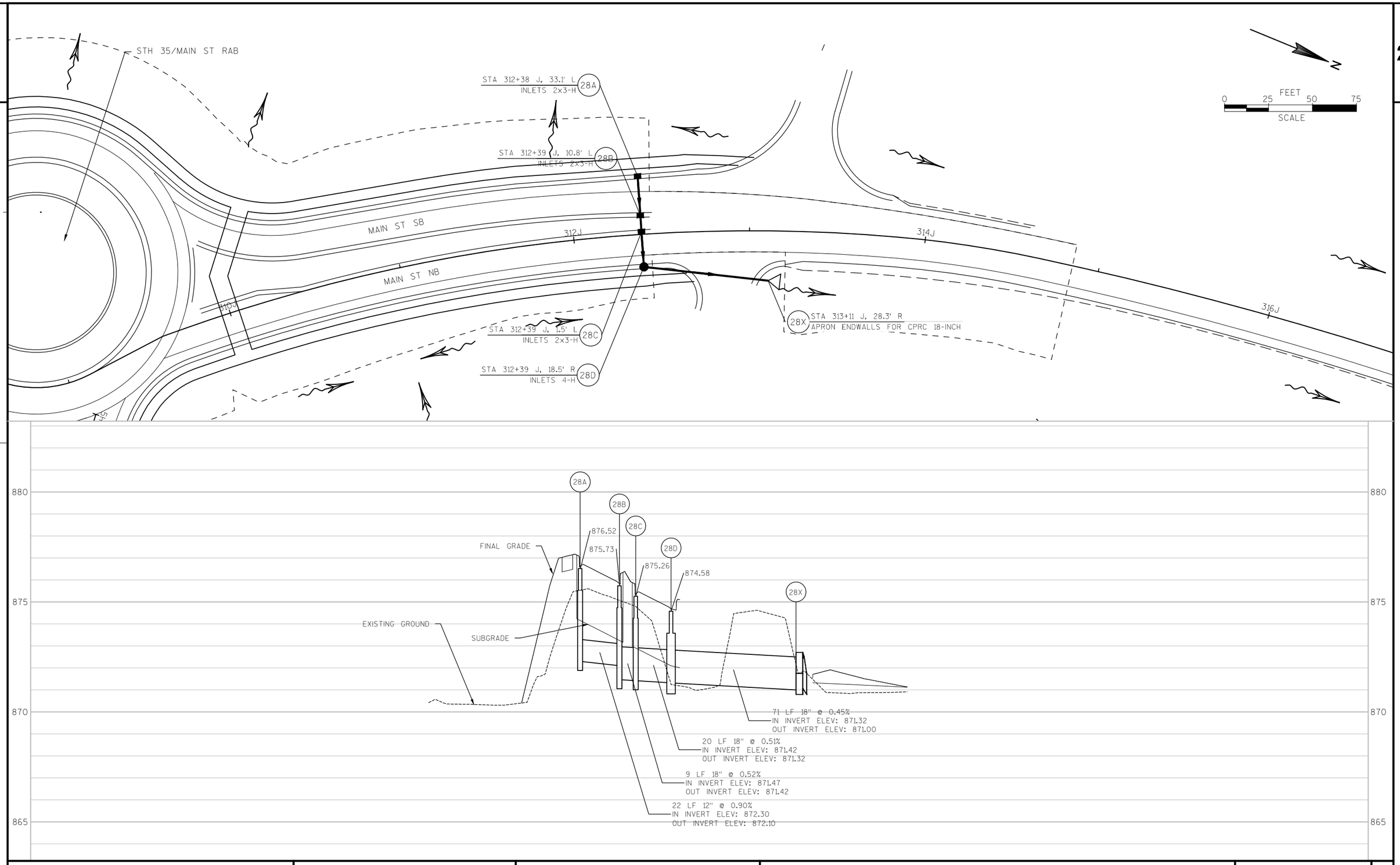
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35	SHEET 195	E

2



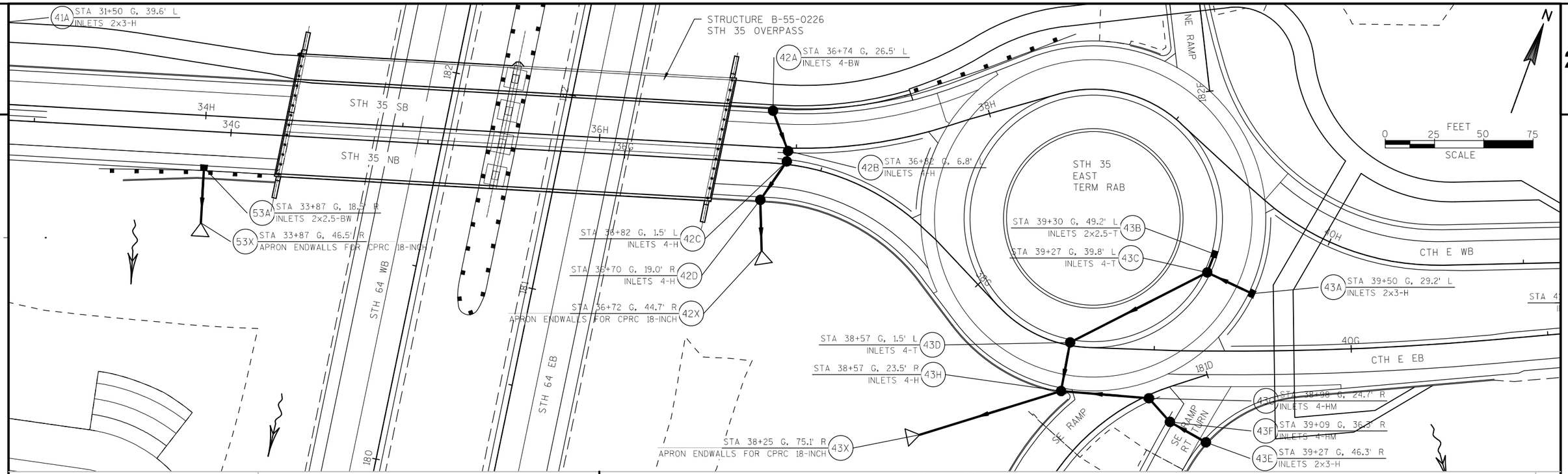


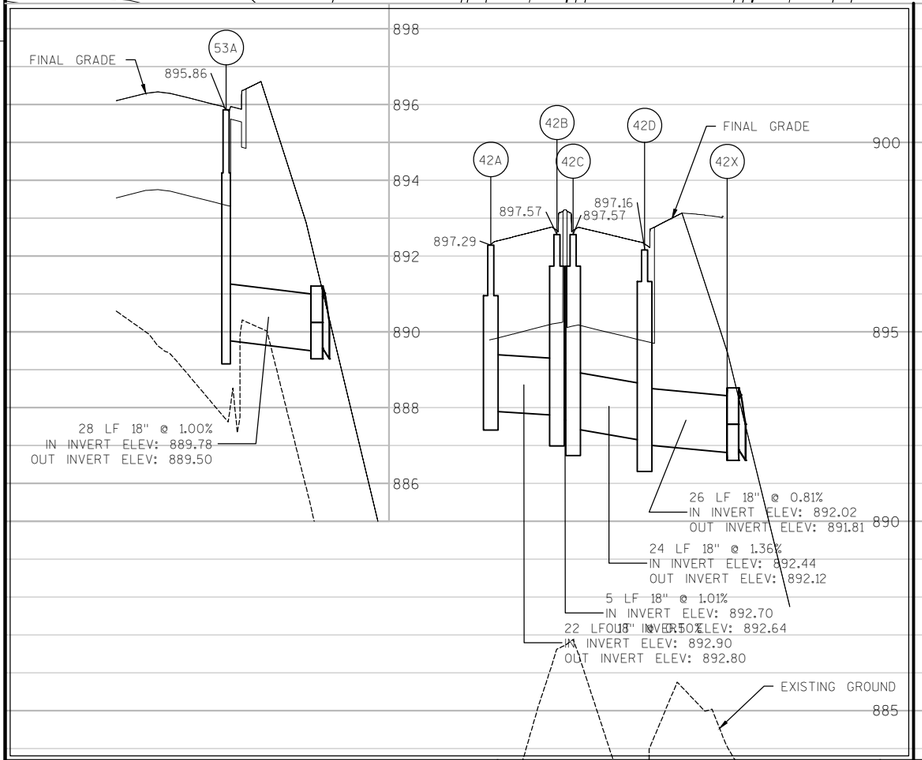
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35	SHEET 196	E

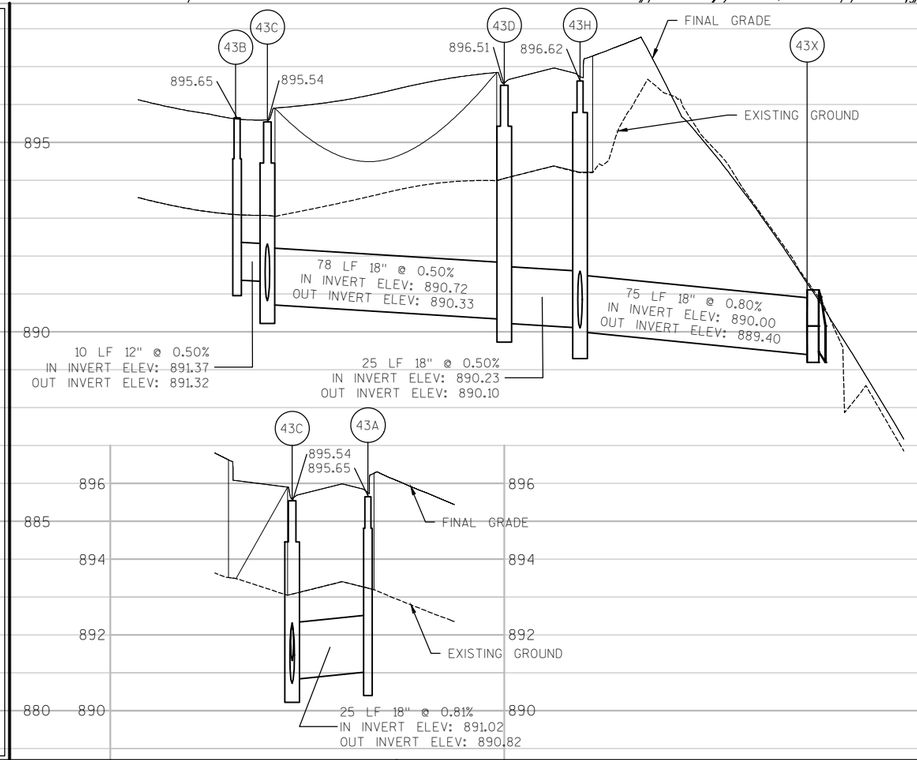


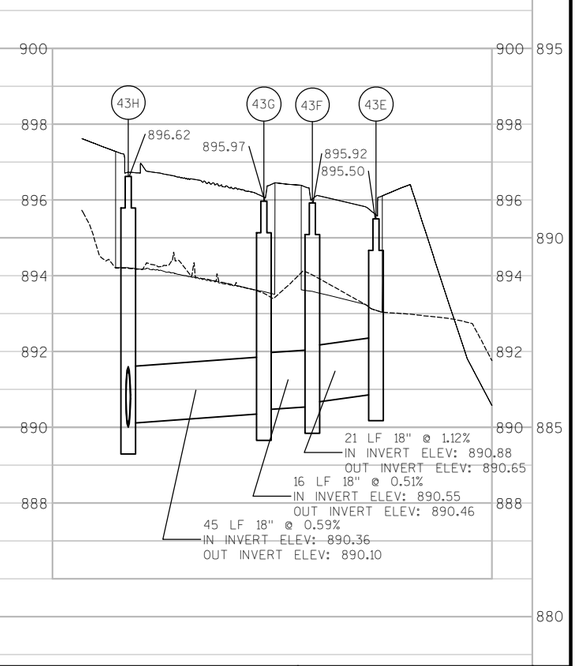
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - MAIN ST	SHEET 197	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\ALIPROFS\PROP_DRAINAGE_ALIGNS.DWG
LAYOUT NAME - PROP_DRAINAGE_ALIGNS - 10
PLOT DATE : 9/25/2014 10:26 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:50_XREF
WISDOT/CADDS SHEET 41

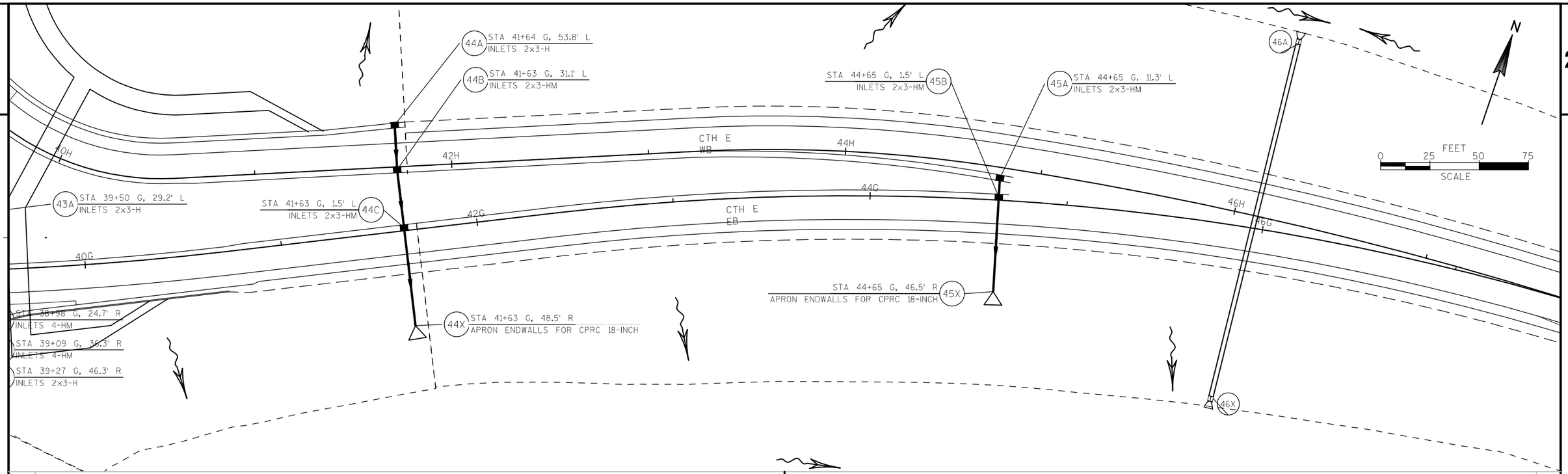


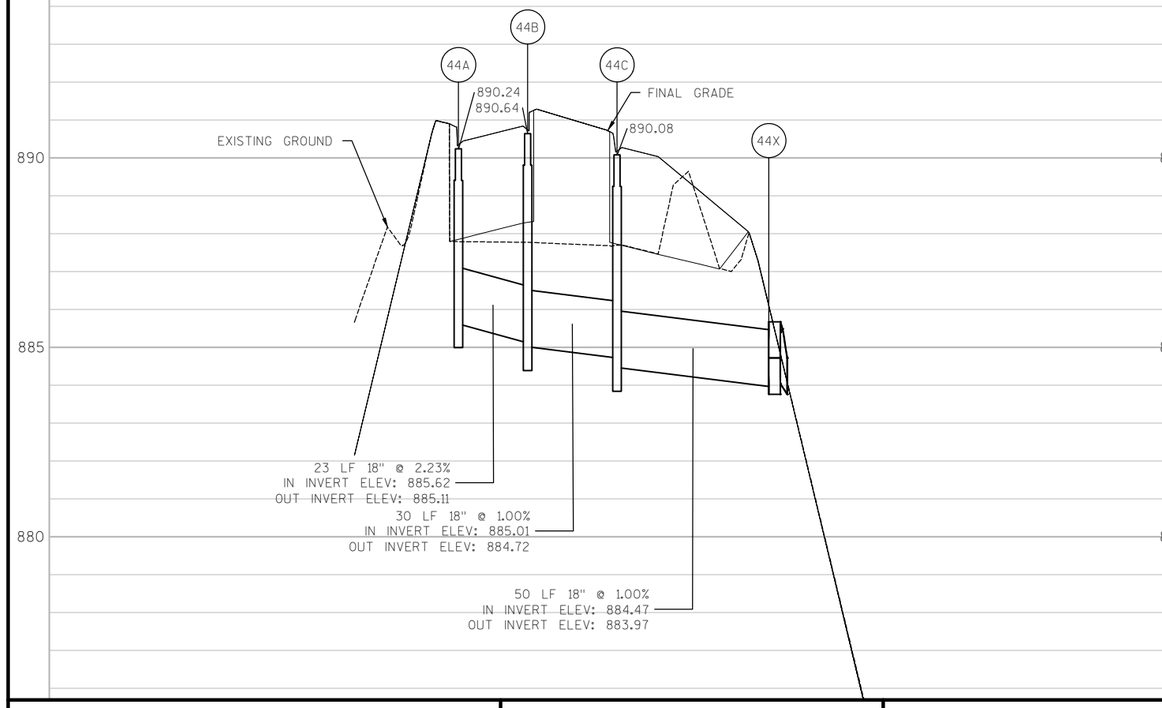


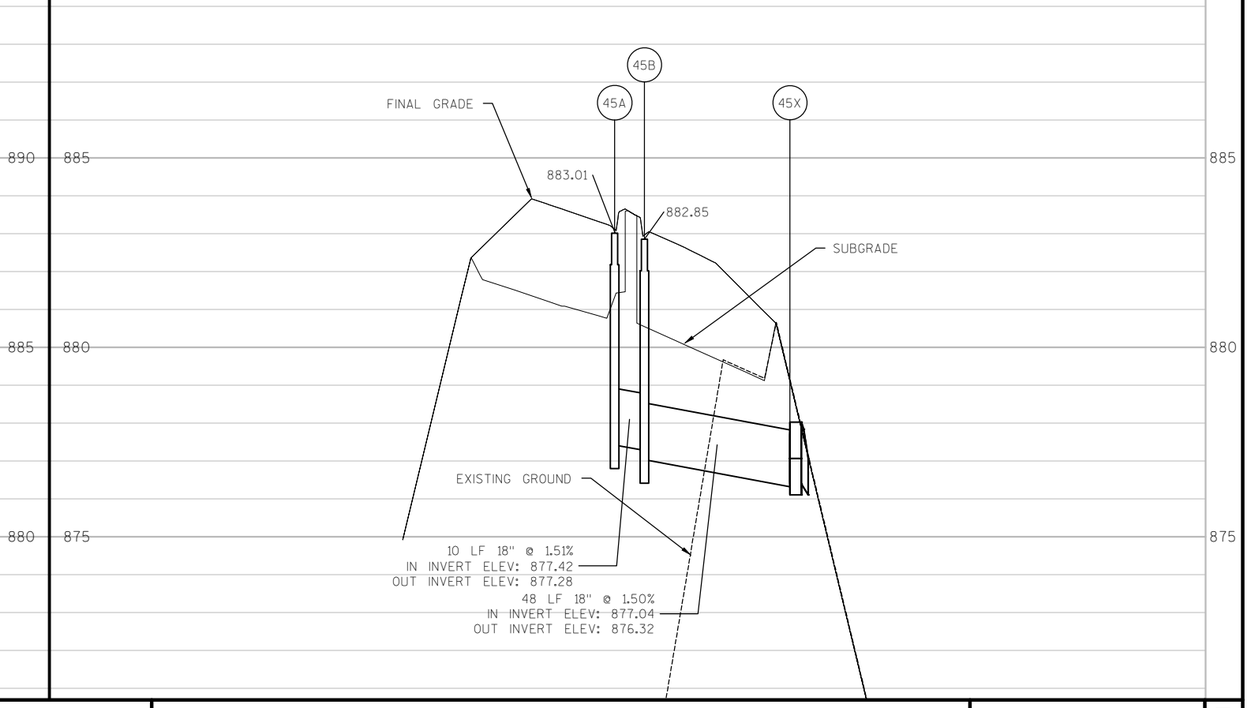




PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - STH 35/CTH E	SHEET 198	E







PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	STORM SEWER PLAN - CTH E	SHEET 199	E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

NOTE:
FOR ALL SHEETS, KEEP ALL SIGNS IN PLACE
UNTIL CONSTRUCTION ACTIVITIES
REQUIRE REMOVAL

N

1R-01 NO PASSING ZONE W14-3

PROPOSED STH 35 NB

STH 35

300 305 310

J4-1 SOUTH 35 HUDSON 6 — 1R-03, 1R-04

I55-56 SPONSOR HUDSON LIONS CLUB — 1M-01

STOP R1-1 — 1R-06

SPEED LIMIT 55 R2-1 — 1R-05

PETERSON ST

1R-02 SPEED LIMIT 35 W3-5

1M-02 — 55 FT MAXIMUM TRUCK LENGTH WEST OF RIVER BRIDGE

1M-03 — HOULTON UNINCORPORATED I2-3-U

MATCHLINE SHEET 2

STA. 297+60
BEGIN CONSTRUCTION

PROPOSED STH 35 NB - CTH E EB

SIGNING REMOVAL AND
PERMANENT SIGNING
PLANS DESIGNED BY

WISCONSIN
LANCE M. WILLISTON
34691-006
BELLEVILLE, WI
PROFESSIONAL ENGINEER

8-1-2014 (DATE)

(SIGNATURE)

SHEET 1 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 200	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMOVA.DWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

N

CHURCH ST

CTH E

STH 35/MAIN ST.

315

320

322

MATCHLINE SHEET 1

STA. 314+78
END CONSTRUCTION

PROPOSED STH 35 NB

2R-01
SPEED LIMIT 35
R2-1
24"X30"

M2-1
21"X15"
JCT
COUNTY E
M1-5A
24"X24"

W12-2
RIVER BRIDGE
13'-2"
WEIGHT LIMIT
2 AXLE VEHICLES 28 TONS
3 OR MORE AXLE VEHICLES 40 TONS
COMBINATION VEHICLES 40 TONS
R12-56
54"X42"
1/2 MILE
W57-52

SPEED LIMIT 35
R2-1
24"X30"

M4-1
24"X12"
M3-4
24"X12"
ALTERNATE
WEST
64
M1-6
24"X24"

S1-1
36"X36"
AHEAD
W16-9P
24"X8"

DO NOT ENTER
R5-1
30"X30"

STOP
R1-1
30"X30"

2R-05
M1-6
24"X24"
35
COUNTY E
M1-5A
24"X24"
M6-1
21"X21"
M6-4
21"X21"
J13-2
48"X45"

STOP
R1-1
30"X30"

COUNTY E
M1-5A
24"X24"
M6-4
21"X21"
J13-1
24"X45"
2R-04

2R-02
COUNTY E
M1-5A
24"X24"
M6-4
21"X21"

M3-2
24"X12"
EAST
COUNTY E
M1-5A
24"X24"
BIKE ROUTE
D11-10
24"X18"
2R-03
2M-01

SPEED LIMIT 35
R2-1
24"X30"

ADOPT A HIGHWAY
HOULTON ELEMENTARY SCHOOL
I55-56

NEIGHBORHOOD CRIME WATCH

STOP
R1-1
30"X30"

SPEED LIMIT 35
R2-1
24"X30"

M2-1
21"X15"
JCT
35
M1-6
24"X24"

CTH E

MATCHLINE SHEET 3

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

NOTE:
EXISTING SIGNS ON THIS SHEET
TO REMAIN UNLESS NOTED
AS REMOVED OR MOVED

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 201	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMOVA.DWG PLOT DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

NOTE:
EXISTING SIGNS ON THIS SHEET
TO REMAIN UNLESS NOTED
AS REMOVED OR MOVED

N

HAGGERTY ST

W14-1
30"X30"
DEAD END
AXLE WEIGHT LIMIT
ONE AXLE 6 TONS
TANDEM AXLE 10 TONS
R12-52
SIZE

W03-1

STOP
R1-1
30"X30"

SPEED LIMIT 35
R2-1
24"X30"

SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
S4-51
24"X48"

CTH E

MATCHLINE SHEET 2

MATCHLINE SHEET 4

S1-1
36"X36"

SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
S4-51
24"X48"

SPEED LIMIT 35
R2-1
24"X30"

SHEET 3 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 202	E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

NOTE:
EXISTING SIGNS ON THIS SHEET
TO REMAIN UNLESS NOTED
AS REMOVED OR MOVED

N

PROPOSED NW RAMP

PROPOSED NE RAMP

SPEED LIMIT 35
R2-1
24"X30"

S1-1
36"X36"
4R-02

MATCHLINE SHEET 3

CTH E

SPEED LIMIT 45
R2-1
24"X30"
4R-01

185

185

185

PROPOSED STH 64 EB

35

PROPOSED STH 35 NB - CTH E EB

180

180

30

181

MATCHLINE SHEET 5

SHEET 4 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 203	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMOVA.DWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

NOTE:
EXISTING SIGNS ON THIS SHEET
TO REMAIN UNLESS NOTED
AS REMOVED OR MOVED

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

N

THELEN FARM TRAIL

PROPOSED NE RAMP

SPEED LIMIT 45 R2-1 24"X30" 5R-01

SPEED LIMIT 45 R2-1 24"X30" 5R-04

MATCHLINE SHEET 4

CTH E

50

45

40

SPEED LIMIT 45 R2-1 24"X30" 5R-02

SPEED LIMIT 45 R2-1 24"X30" 5R-03

PROPOSED STH 35 NB - CTH E EB

MATCHLINE SHEET 6

182

181

180

PROPOSED SE RAMP

SHEET 5 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 204	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMOVA.DWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:100_XREF

2

2

LEGEND

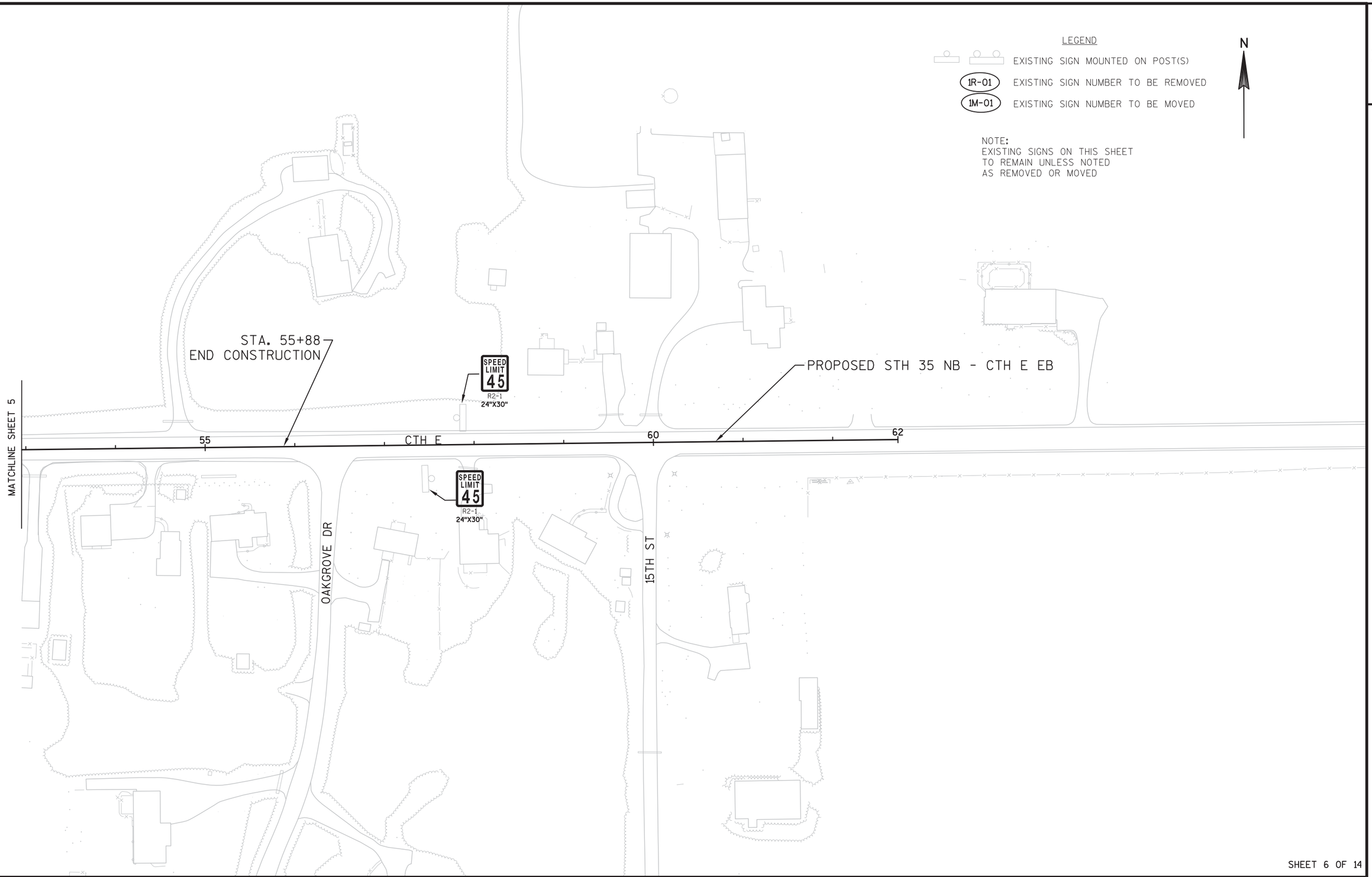
EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

N

NOTE:
EXISTING SIGNS ON THIS SHEET
TO REMAIN UNLESS NOTED
AS REMOVED OR MOVED



SHEET 6 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 205	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMD.DWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

NOTE:
EXISTING SIGNS ON THIS SHEET
TO REMAIN UNLESS NOTED
AS REMOVED OR MOVED

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

N

2

M3-4 24"X12"
M1-6 24"X24"
WEST
64
RIVER BRIDGE
13'-2"
1 1/2 MILES

7R-01
NO PASSING ZONE
W14-3 48"X36"

BEGIN CONSTRUCTION
STH 64 TEMP.
CROSSOVERS

STH 64

MATCHLINE SHEET 8

PROPOSED STH 64 EB

SHEET 7 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 206	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMOVA DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

N

ANDERSON SCOUT CAMP RD

AXLE WEIGHT LIMIT
ONE AXLE
6 TONS
ANY TWO AXLES UNDER 8FT APART
10 TONS

3 TONS
FOR EACH ADDITIONAL AXLE

8M-04 MOVE TO TEMP. CONNECTION

8M-05

PROPOSED STH 64 EB

235

240

2

STOP R1-1 30"X30" 8M-03 MOVE TO TEMP. CONNECTION

MATCHLINE SHEET 7

0

STH 64

MATCHLINE SHEET 9

STOP R1-1 30"X30" 8R-01

SETTLERS WAY

8M-02 ANDERSON SCOUT CAMP ROAD

MOVE TO TEMP. EB STH 64 ROADWAY

SHEET 8 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 207	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMOVA.DWG PLOT DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

N

MOVE TO TEMP. WB STH 64 ROADWAY

ANDERSON SCOUT CAMP ROAD →

9M-01

NO PASSING ZONE

W14-3
48"X36"

9R-02

PROPOSED STH 64 EB

5 250 255 26

MATCHLINE SHEET 8

MATCHLINE SHEET 10

STH 64

9R-01

NO PASSING ZONE

W14-3
48"X36"

SHEET 9 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 208	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMOVA.DWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

N

PROPOSED STH 64 EB

MATCHLINE SHEET 11

MATCHLINE SHEET 9

260

265

270

10M-04

MOVE TO NEW WB STH 64 LANES

155-56
30"X36"

STH 64

10R-01

ROUGH ROAD

W8-8
30"X30"

STOP

R1-1
30"X30"

10R-02

20TH ST

R12-52

AXLE WEIGHT LIMIT
ONE AXLE
6 TONS
ANY TWO AXLES UNDER 6FT APART
10 TONS

10R-03

3 TONS
FOR EACH ADDITIONAL AXLE

10R-04

SHEET 10 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 209	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMDWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

MOVE TO
TEMP.
WB STH 64
ROADWAY

SPEED
LIMIT
55
R2-1
24"X30"

11M-01

11R-01

W6-3
36"X36"

MATCHLINE SHEET 10

75

STH 64

280

285

MATCHLINE SHEET 12

PROPOSED STH 64 EB

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

11M-02

MOVE TO
TEMP.
NB STH 64
ROADWAY

W6-1
36"X36"

11M-03

V

ANDERSON SCOUT
CAMP ROAD
EXIT 1 MILE

MOVE TO
STA. 289+00
54' RT
(ALSO SEE
TRAFFIC
CONTROL
PLANS)

SHEET 11 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 210	E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

N

150TH AVE

12R-02

W6-2
36"X36"

PROPOSED STH 64 EB

MATCHLINE SHEET 11

290

295

300

STH 64

MATCHLINE SHEET 13

12R-01

R4-7
24"X30"

12M-01

SPEED LIMIT 65

R2-1
24"X30"

MOVE TO SHEET 14

SHEET 12 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 211	E

NOTE:
EXISTING SIGNS ON THIS SHEET TO REMAIN UNLESS NOTED AS REMOVED OR MOVED

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

N

13R-01
W4-2R
36"X36"

13R-02
RIGHT LANE ENDS
W9-1R
30"X30"

13R-04
SPEED LIMIT 55
R2-1
24"X30"

STILLWATER 5

13R-03
SPEED LIMIT 55
R2-1
24"X30"

PROPOSED STH 64 EB

STH 64

MATCHLINE SHEET 12

MATCHLINE SHEET 14

5

308

13M-01
EMERGENCY STOPPING ONLY
R8-7
48"X36"
MOVE TO SHEET 14

13M-02
SLOWER TRAFFIC KEEP RIGHT
R4-3
24"X30"
MOVE TO SHEET 14

SHEET 13 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 212	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMD.DWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

NOTE:
EXISTING SIGNS ON THIS SHEET TO REMAIN UNLESS NOTED AS REMOVED OR MOVED

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

1R-01 EXISTING SIGN NUMBER TO BE REMOVED

1M-01 EXISTING SIGN NUMBER TO BE MOVED

SEE TRAFFIC CONTROL PLANS

FREEWAY ENDS 1/2 MILE

14R-01

14R-02

SPEED LIMIT 55

W3-5
36"X36"

M3-3 24"X12" M3-4 24"X12"

SOUTH WEST

35 64

M1-6 24"X24" M1-6 24"X24"

STH 64

MATCHLINE SHEET 13

END CONSTRUCTION
NB STH 64 TEMP.
CROSSOVER

12M-01

SPEED LIMIT 65

R2-1
24"X30"

FROM SHEET 12

13M-01

EMERGENCY STOPPING ONLY

R8-7
48"X36"

FROM SHEET 13

SLOWER TRAFFIC KEEP RIGHT

R4-3
24"X30"

13M-02

FROM SHEET 13

SHEET 14 OF 14

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EXISTING SIGNING REMOVALS	SHEET 213	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS-REMD.DWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

2

N

Hudson 6
HWY 94 8

D1-62
66"X24"

1-03

1-07

W6-3(2S)
36" X 36"

PLACE AT
STA. 293+00

1-01

JCT
COUNTY
E

J1-1(3)
36" X 57"

295 295

STH 35

MATCHLINE 300+00

1-02

W6-1(2S)
36" X 36"

1-04

W2-6(3)
36" X 36"

1-05

15
M.P.H.

W13-1(3)
24" X 24"

ATTACH PLAQUES FOR
REMOVAL IN FUTURE
CONTRACT

1-08

WEST
M 3-4
24" X 12"

1-09

COUNTY
E
M1-5A
24" X 24"

NORTH
M 3-1
24" X 12"

35
M1-6
24" X 24"

1-12

ATTACH PLAQUES FOR
REMOVAL IN FUTURE
CONTRACT

1-11

1-06

HOULTON

NORTH TO TO
35 64 E

COVER

COVER

D1-62
126"X60"

ATTACH PLAQUE FOR
REMOVAL IN FUTURE
CONTRACT

EAST
M 3-2
24" X 12"

1-10

LEGEND

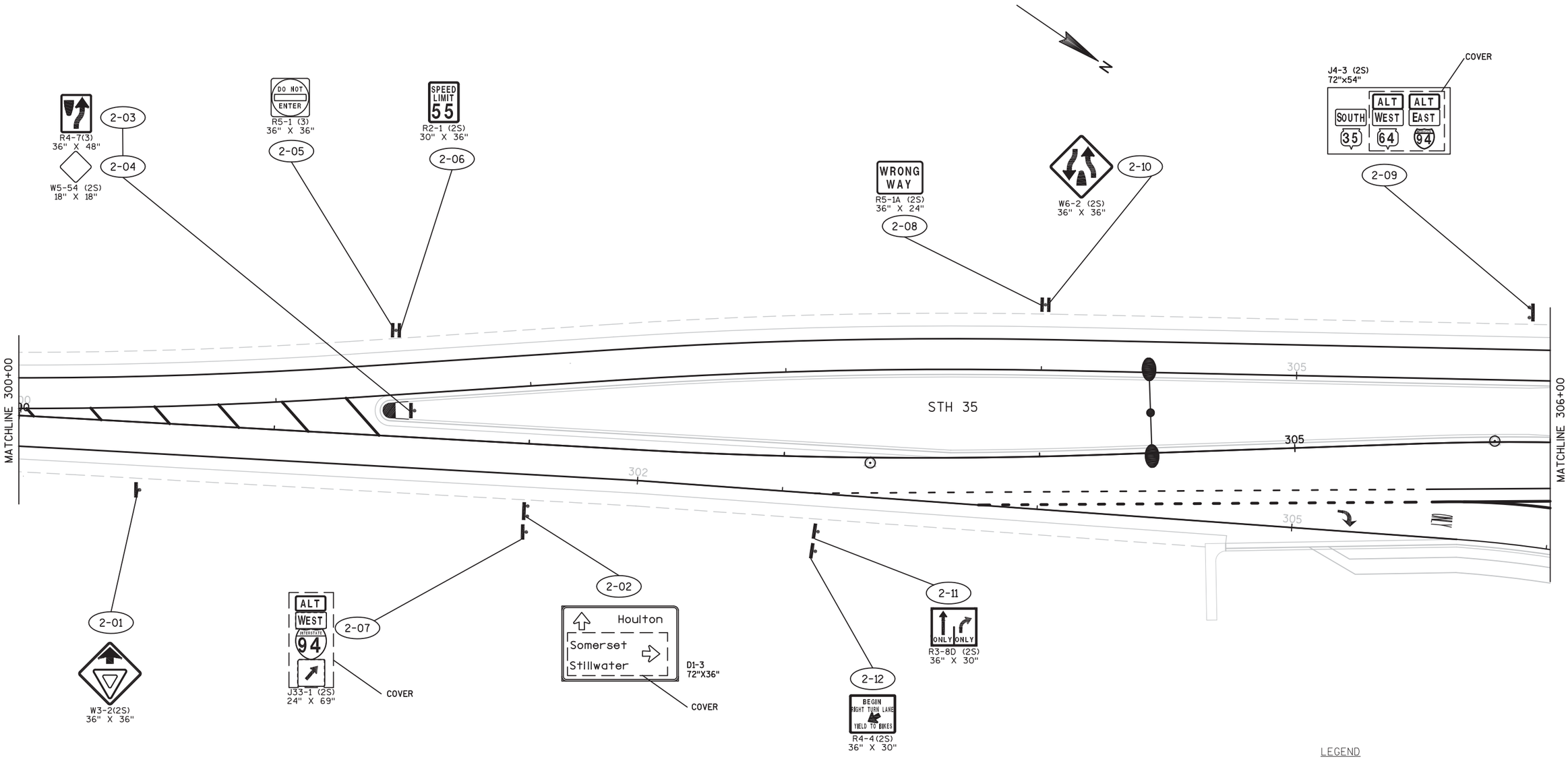
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT
- 1-01 DENOTES SIGN NUMBER
- 1M-01 MOVE EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- 18" X 18" SIGN FLAGS PERMANENT TYPE II

NOTES:
1. MOUNT YIELD SIGNS AT A HEIGHT OF 7-FT. PLACE SIGNS NEAR THE ENDS OF THE MARKED YIELD LINE

2. "COVER" WILL BE PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE II.

3. SIGN PLAQUES NOTED FOR REMOVAL IN FUTURE CONTRACTS WILL BE PAID AS SIGNS TYPE II REFLECTIVE H. PLACE ON COVERS OR AS INDICATED.

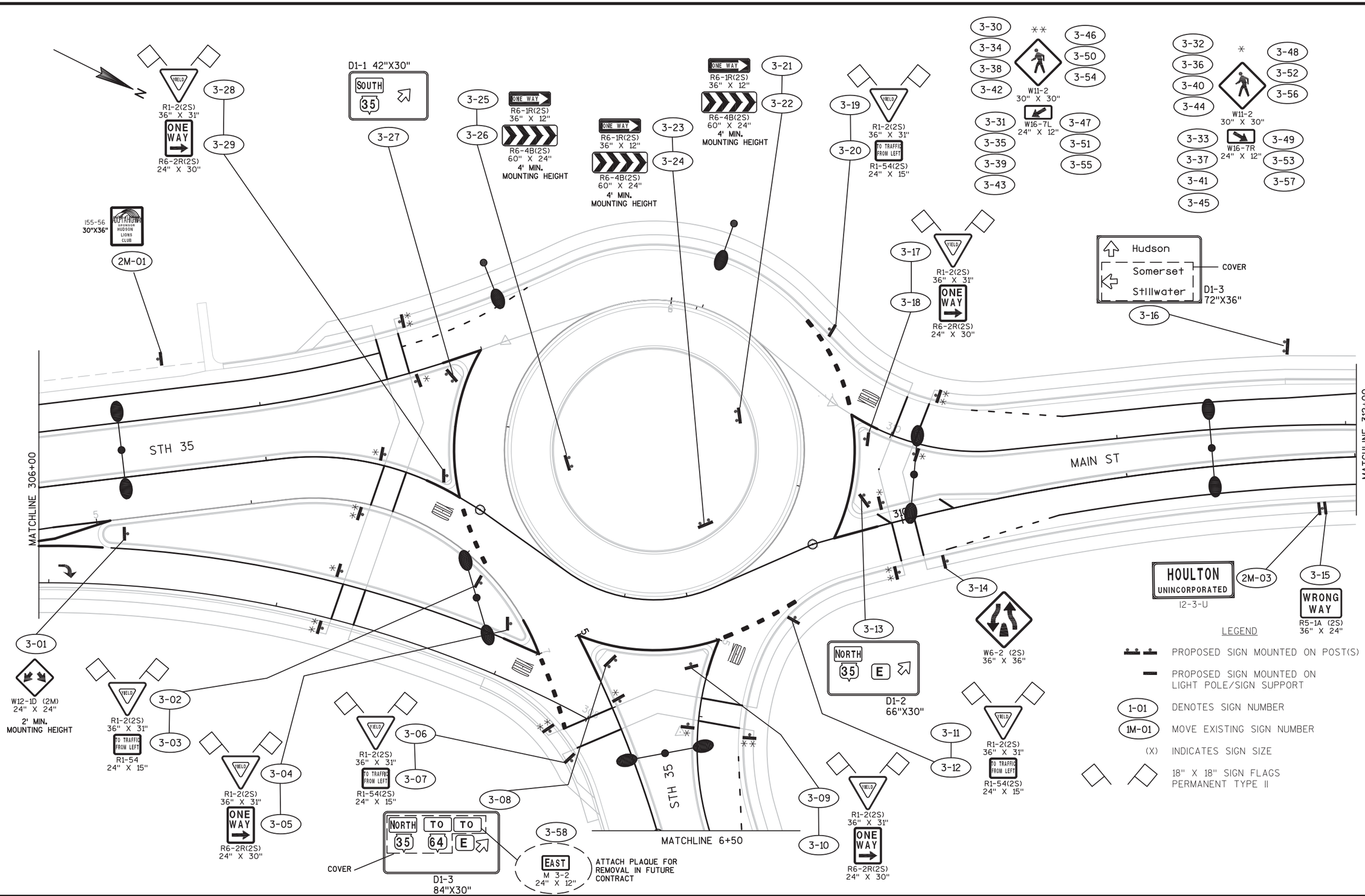
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 214	E



LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT
- 1-01 DENOTES SIGN NUMBER
- 1M-01 MOVE EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- 18" X 18" SIGN FLAGS PERMANENT TYPE II

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 215	E



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 216	E

2

PETERSON ST

4-12

EAST
M 3-2
24" X 12"

ATTACH PLAQUE FOR REMOVAL IN FUTURE CONTRACT

STOP
R1-1(2S)
30" X 30"
4-08

SOUTH
35
NORTH TO
35
64
E
D1-62
120"X84"

COVER

4-07

W2-6(2S)
30" X 30"
4-05

15
M.P.H.
W13-1(2S)
18" X 18"
4-06

W3-2(2S)
36" X 36"
4-09

W6-1(2S)
36" X 36"
4-04

R4-7(2S)
24" X 30"
4-10

315 315 MAIN ST

317

MATCHLINE 312+00

MATCHLINE 318+00

4-03

W6-3(2S)
36" X 36"

SPEED LIMIT
35
R2-1 (2S)
24" X 30"
4-01

4-02

DO NOT
ENTER
R5-1 (3)
36" X 36"

4-11

STOP
R1-1(2S)
30" X 30"

1M-02

55 FT MAXIMUM
TRUCK LENGTH
WEST OF
RIVER BRIDGE

N

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT

1-01 DENOTES SIGN NUMBER

1M-01 MOVE EXISTING SIGN NUMBER

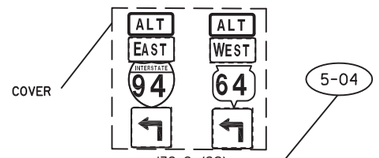
(X) INDICATES SIGN SIZE

18" X 18" SIGN FLAGS PERMANENT TYPE II

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 217	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS.DWG DATE : 7/29/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:40_XREF

2



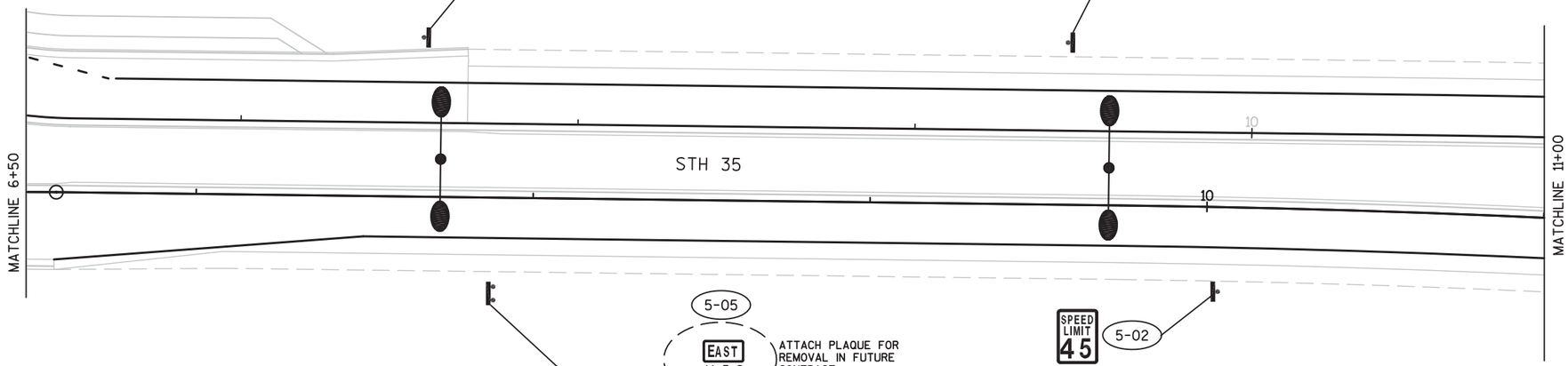
COVER

J32-2 (2S)
48" X 69"

5-04

W3-2(2S)
36" X 36"

5-03

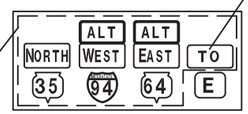


5-05

EAST
M 3-2
24" X 12"

ATTACH PLAQUE FOR REMOVAL IN FUTURE CONTRACT

5-01



COVER

J4-4 (2S)
96" X 48"

5-02

R2-1 (2S)
24" X 30"

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT

1-01 DENOTES SIGN NUMBER

1M-01 MOVE EXISTING SIGN NUMBER

(X) INDICATES SIGN SIZE

18" X 18" SIGN FLAGS PERMANENT TYPE II

2

ATTACH PLAQUES FOR REMOVAL IN FUTURE CONTRACT

D1-62
132"X48"

SOUTH
35
Hudson
Houlton

6-07

WEST
M 3-4
24" X 12"

COUNTY
E
M1-5A
24" X 24"

6-08

6-09

6-05

W2-6(3)
36" X 36"

6-06

15
M.P.H.
W13-1(3)
24" X 24"

STH 35

15

15

MATCHLINE 11+00

MATCHLINE 17+00

PARK &
RIDE
D4-2R (2S)
30" X 36"

6-01

COVER

6-02

School St
D1-1 72"X15"

6-03

BEGIN
RIGHT TURN LANE
YIELD TO BIKES
R4-4 (2S)
36" X 30"

COVER

JCT
64
J1-1(2S)
24" X 39"

COVER

6-04

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT
- 1-01 DENOTES SIGN NUMBER
- 1M-01 MOVE EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- 18" X 18" SIGN FLAGS PERMANENT TYPE II

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 219	E

2

MATCHLINE 11+30

SCHOOL RD

N

STOP
R1-1(2S)
30" X 30"

7-05

STH 35

20

20

MATCHLINE 17+00

MATCHLINE 23+00

7-01

W2-6(3)
36" X 36"

15
M.P.H.
W13-1(3)
24" X 24"

7-02

7-03

EAST
M 3-2
24" X 12"

ATTACH PLAQUE FOR REMOVAL IN FUTURE CONTRACT

7-06

NORTH EAST
35 64 E
WEST
64

D1-62
114"X84"

COVER

7-04

W3-2(2S)
36" X 36"

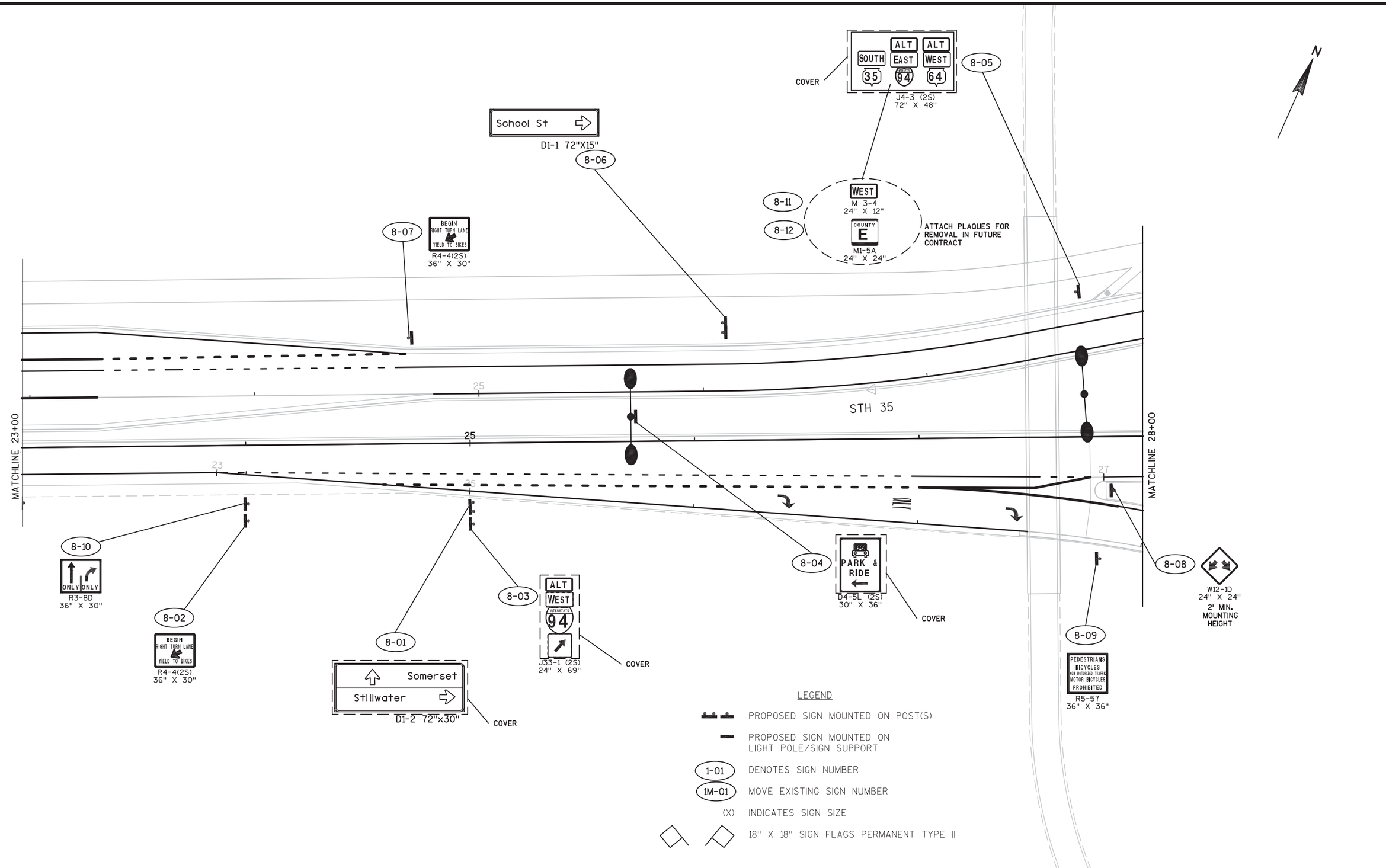
LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT
- 1-01 DENOTES SIGN NUMBER
- 1M-01 MOVE EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- 18" X 18" SIGN FLAGS PERMANENT TYPE II

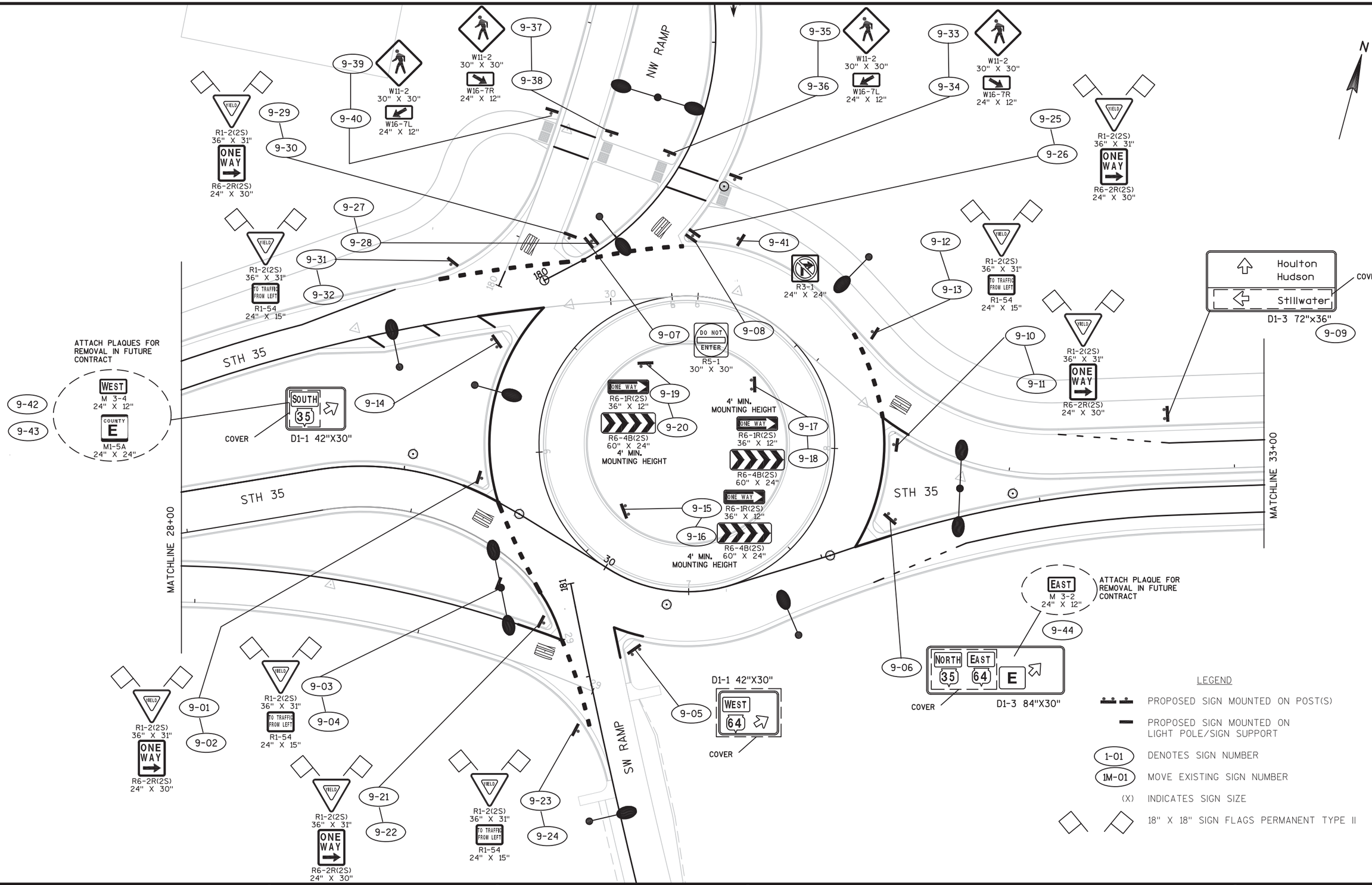
2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 220	E

2



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 221	E



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 222	E

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT

1-01 DENOTES SIGN NUMBER

1M-01 MOVE EXISTING SIGN NUMBER

(X) INDICATES SIGN SIZE

18" X 18" SIGN FLAGS PERMANENT TYPE II

N

WB STH 64

EB STH 64

STH 35

MATCHLINE 33+00

MATCHLINE 37+00

10-05

ALT WEST SOUTH EAST 64 35 94

J2-3 (2S)
72" X 69"

COVER

10-04

R4-7
24" X 30"

10-01

NORTH EAST 35 64 E

J2-3 (2S)
72" X 57"

COVER

EAST
M 3-2
24" X 12"

ATTACH PLAQUE FOR REMOVAL IN FUTURE CONTRACT

10-06

R4-7
24" X 30"

10-03

10-02

Somerset
New Richmond

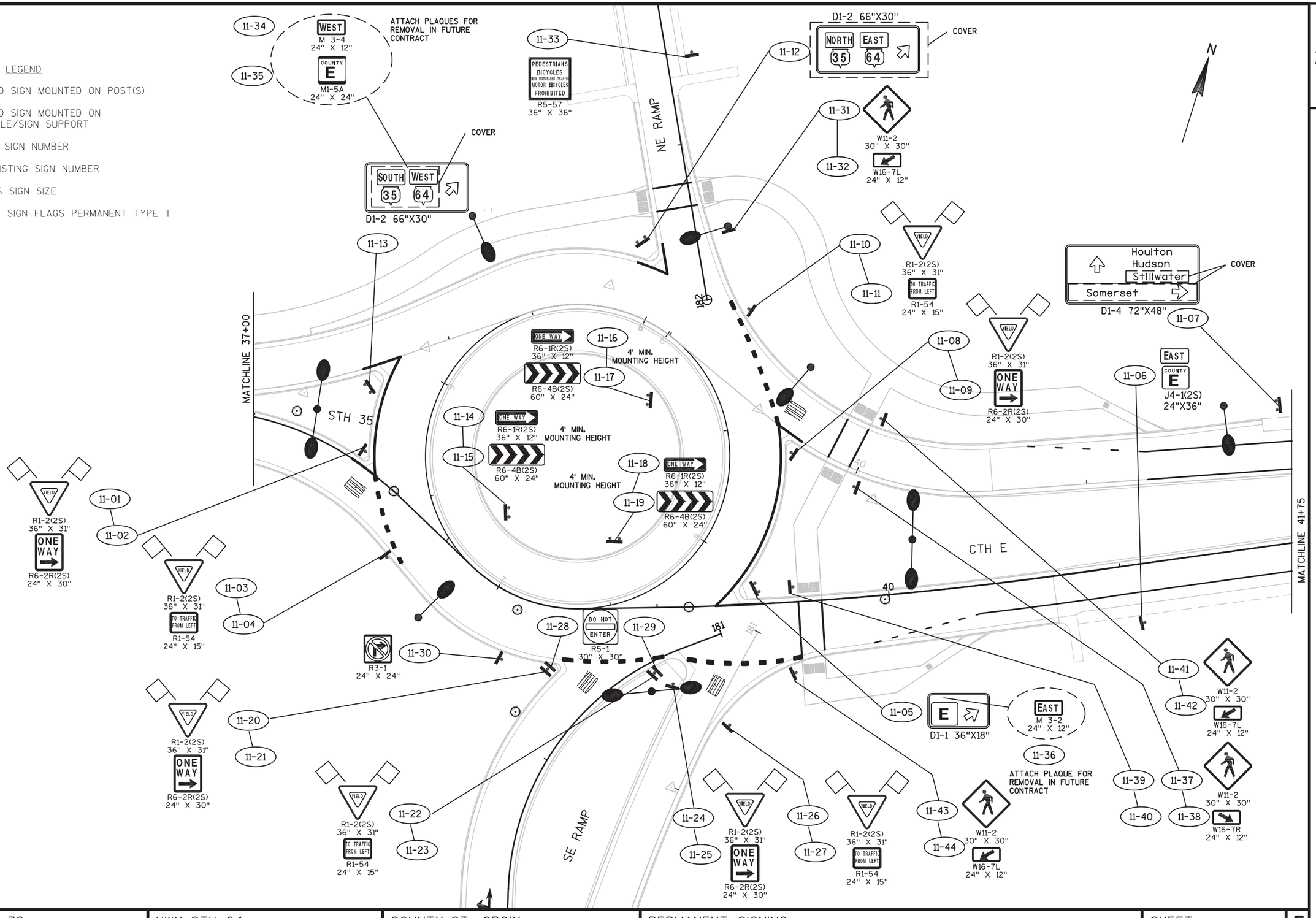
D1-2 96"x24"

COVER

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 223	E

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT
- 1-01 DENOTES SIGN NUMBER
- 1M-01 MOVE EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- 18" X 18" SIGN FLAGS PERMANENT TYPE II



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 224	E

2

ATTACH PLAQUES FOR REMOVAL IN FUTURE CONTRACT

12-10

12-11

WEST
M 3-4
24" X 12"

COUNTY
E
M1-5A
24" X 24"

N

COVER

SOUTH WEST
35 64

NORTH EAST
35 64

COVER

D1-62
108"X84"

12-08

12-09

W3-2(2S)
36" X 36"

CTH E

45

45

MATCHLINE 41+75

MATCHLINE 47+00

12-01

12-02

WRONG WAY
R5-1A (2S)
36" X 24"

W6-2 (2S)
36" X 36"

R4-7(3)
36" X 48"

12-03

12-04

W5-54 (2S)
18" X 18"

12-05

SPEED LIMIT 45
R2-1 (2S)
24" X 30"

12-06

DO NOT ENTER
R5-1 (2S)
30" X 30"

12-07

W6-3(2S)
36" X 36"

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT
- 1-01 DENOTES SIGN NUMBER
- 1M-01 MOVE EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- 18" X 18" SIGN FLAGS PERMANENT TYPE II

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 225	E

2

N

THELEN FARM TL

13-01

W2-6(3)
36" X 36"

13-02

15
M.P.H.
W13-1(3)
24" X 24"

13-03

W6-1(2S)
36" X 36"

STOP
R1-1(2S)
30" X 30"

13-04

COVER

13-05

JCT 35 JCT 64
J1-2(3)
48" X 39"

50 50

CTH E

MATCHLINE 47+00

MATCHLINE 52+00

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT
- 1-01 DENOTES SIGN NUMBER
- 1M-01 MOVE EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- 18" X 18" SIGN FLAGS PERMANENT TYPE II

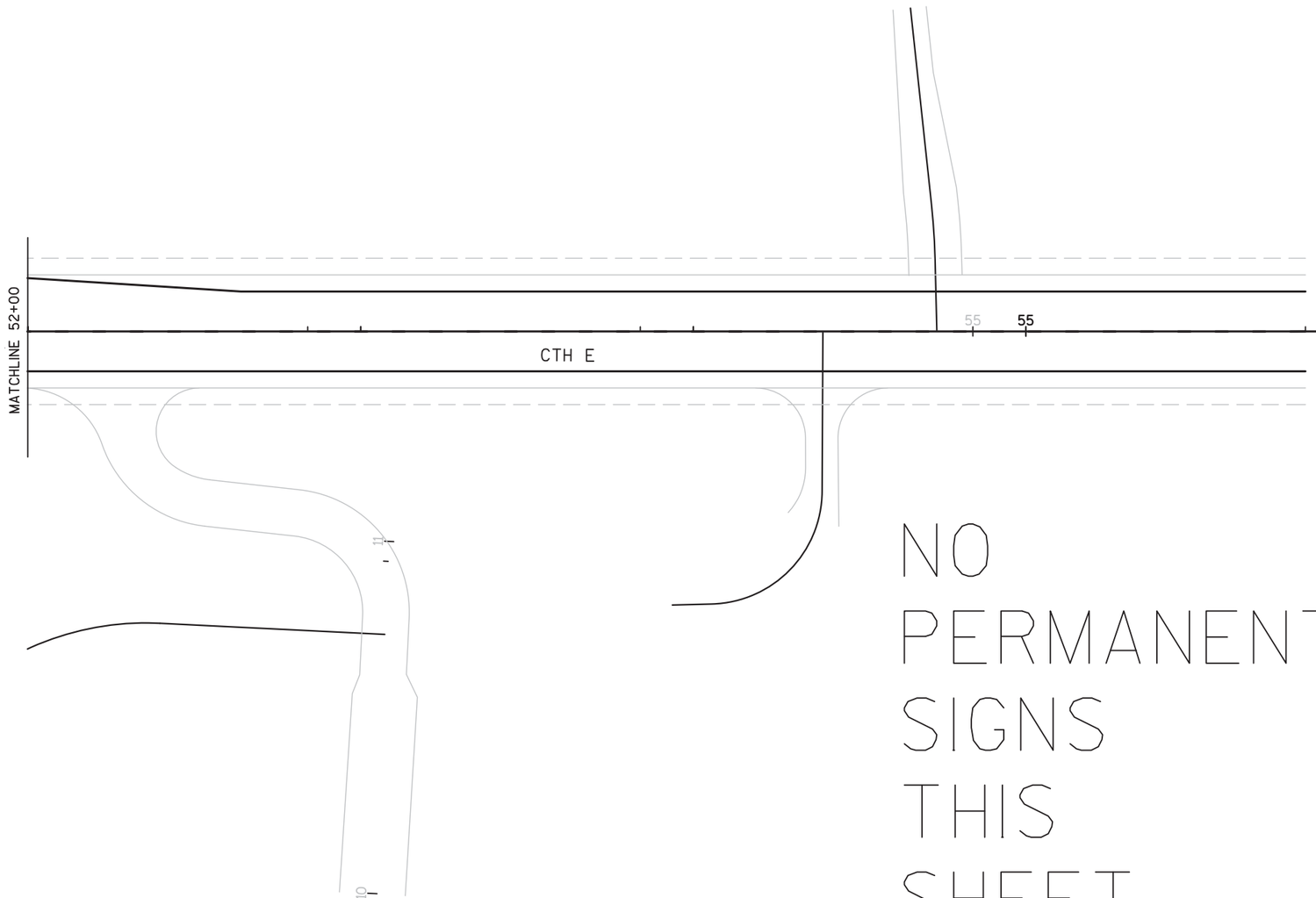
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 226	E

2

N

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT
- 1-01 DENOTES SIGN NUMBER
- 1M-01 MOVE EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- 18" X 18" SIGN FLAGS PERMANENT TYPE II



NO PERMANENT SIGNS THIS SHEET

2

2

CHURCH ST

MAIN ST

320

MATCHLINE 318+00

MATCHLINE 322+80

N

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT

1-01 DENOTES SIGN NUMBER

1M-01 MOVE EXISTING SIGN NUMBER

(X) INDICATES SIGN SIZE

18" X 18" SIGN FLAGS PERMANENT TYPE II

EXISTING SIGN MOUNTED ON POST

15-01 WEST JCT COUNTY E

M 3-4 (2S)
24" X 12"

PLACE OVER
EXISTING
PLAQUE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 228	E

2

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT

1-01 DENOTES SIGN NUMBER

1M-01 MOVE EXISTING SIGN NUMBER

(X) INDICATES SIGN SIZE

18" X 18" SIGN FLAGS PERMANENT TYPE II

EXISTING SIGN MOUNTED ON POST

EXISTING CTH E

TO REMAIN

ALTERNATE WEST 64

16-05 EAST COUNTY E
J4-1 (2S)
24" X 36"

2M-01 BIKE ROUTE
D11-1
24" X 18"

MAIN ST

MATCHLINE 322+80

16-01 WEST COUNTY E
J2-1 (2S)
24" X 57"

16-04 EAST COUNTY E
J3-1 (2S)
24" X 57"

35 COUNTY E

16-03 EAST COUNTY E / WEST COUNTY E
J3-2 (2S)
48" X 57"

REMOVE COUNTY E

REMOVE COUNTY E

16-02 WEST COUNTY E
J3-1 (2S)
24" X 57"

STH 35/ MAIN ST

EXISTING CTH E

N

2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 229 E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\023201-PS.DWG PLOT DATE : 7/28/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

N

SCHOOL RD

15

MATCHLINE 11+30

STOP
R1-1(2S)
30" X 30"

17-01

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT
- 1-01 DENOTES SIGN NUMBER
- 1M-01 MOVE EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- 18" X 18" SIGN FLAGS PERMANENT TYPE II

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 230	E

2

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT

1-01 DENOTES SIGN NUMBER

1M-01 MOVE EXISTING SIGN NUMBER

(X) INDICATES SIGN SIZE

18" X 18" SIGN FLAGS PERMANENT TYPE II

N

DEAD END
W14-1(2S)
30" X 30"
18-01

ANDERSON SCOUT CAMP ROAD

STOP
R1-1(2S)
30" X 30"
18-02

FRONTAGE ROAD B

245+24

18-03

DEAD END
W14-1(2S)
30" X 30"

COVER STAGE 3

230+00

235+00

240+00

245+00

FRONTAGE ROAD A

STA BACK = 237+08.40
STA AHEAD = 237+08.40

STH 35/64 WB--SEE TRAFFIC CONTROL PLANS FOR TEMPORARY SIGNING

STH 35/64 EB--TO BE COMPLETED IN FUTURE CONTRACT

FRONTAGE ROAD C

235+00

240+00

245+00

18-04

W1-1L(2S)
36" X 36"

18-05

W1-1R(2S)
36" X 36"

SETTLER'S WAY

2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 231	E

2

2

N

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON LIGHT POLE/SIGN SUPPORT

1-01 DENOTES SIGN NUMBER

1M-01 MOVE EXISTING SIGN NUMBER

(X) INDICATES SIGN SIZE

18" X 18" SIGN FLAGS PERMANENT TYPE II

W5-56(2S)
18" X 18"

19-01

19-02

19-03

FRONTAGE ROAD B

260+00

265+00

268+01

STH 35/64 WB--SEE TRAFFIC CONTROL PLANS FOR TEMPORARY SIGNING

POC 263+70.68

260

265

270

STH 35/64 EB--TO BE COMPLETED IN FUTURE CONTRACT

260+00

265+00

270+00

FRONTAGE ROAD C

19-04

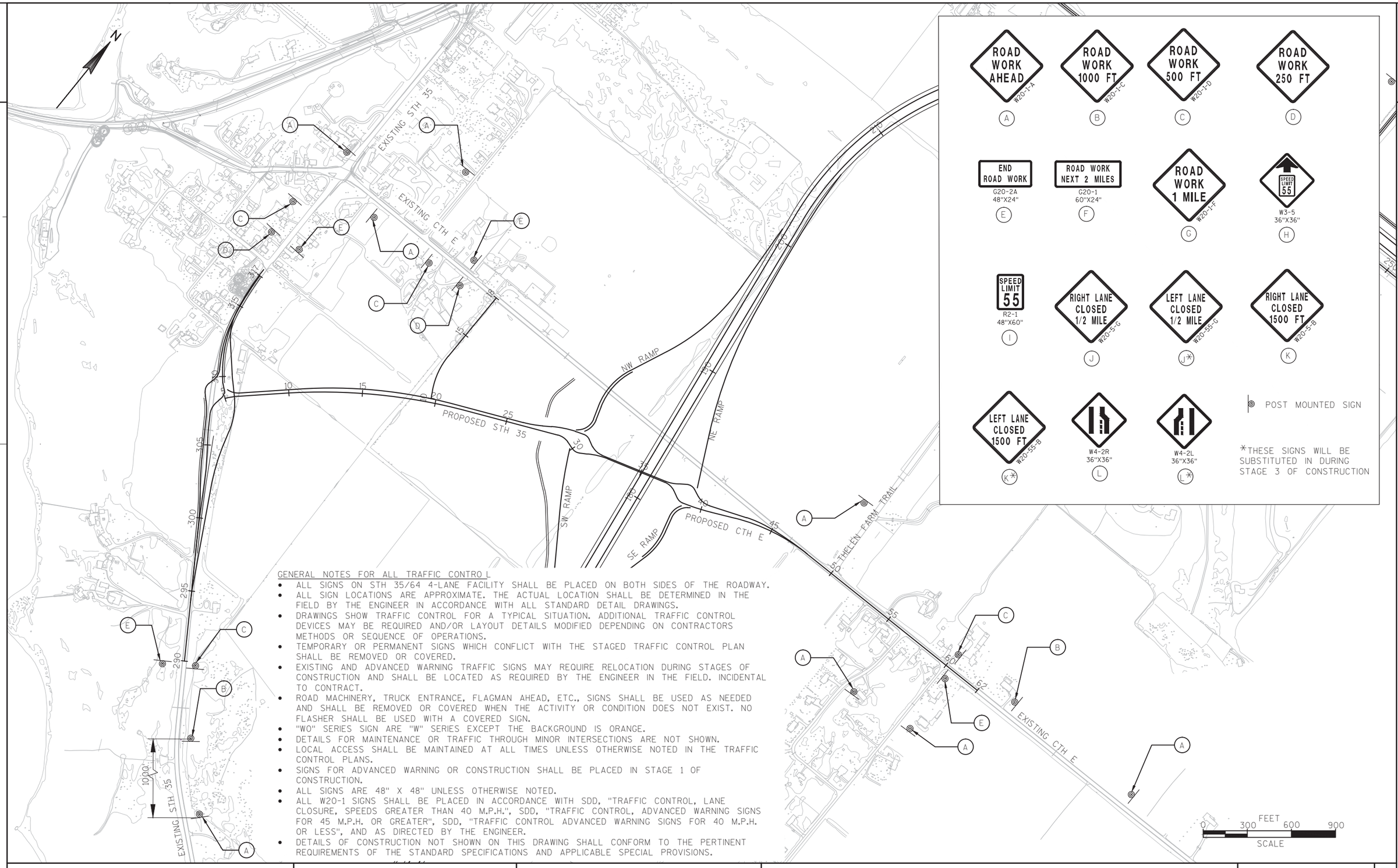
W1-1R(2S)
36" X 36"

20TH ST.

19-05

W1-1L(2S)
36" X 36"

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 232	E



GENERAL NOTES FOR ALL TRAFFIC CONTROL

- ALL SIGNS ON STH 35/64 4-LANE FACILITY SHALL BE PLACED ON BOTH SIDES OF THE ROADWAY.
- ALL SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER IN ACCORDANCE WITH ALL STANDARD DETAIL DRAWINGS.
- DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTORS METHODS OR SEQUENCE OF OPERATIONS.
- TEMPORARY OR PERMANENT SIGNS WHICH CONFLICT WITH THE STAGED TRAFFIC CONTROL PLAN SHALL BE REMOVED OR COVERED.
- EXISTING AND ADVANCED WARNING TRAFFIC SIGNS MAY REQUIRE RELOCATION DURING STAGES OF CONSTRUCTION AND SHALL BE LOCATED AS REQUIRED BY THE ENGINEER IN THE FIELD. INCIDENTAL TO CONTRACT.
- ROAD MACHINERY, TRUCK ENTRANCE, FLAGMAN AHEAD, ETC., SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED WHEN THE ACTIVITY OR CONDITION DOES NOT EXIST. NO FLASHER SHALL BE USED WITH A COVERED SIGN.
- "WO" SERIES SIGN ARE "W" SERIES EXCEPT THE BACKGROUND IS ORANGE.
- DETAILS FOR MAINTENANCE OR TRAFFIC THROUGH MINOR INTERSECTIONS ARE NOT SHOWN.
- LOCAL ACCESS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE NOTED IN THE TRAFFIC CONTROL PLANS.
- SIGNS FOR ADVANCED WARNING OR CONSTRUCTION SHALL BE PLACED IN STAGE 1 OF CONSTRUCTION.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- ALL W20-1 SIGNS SHALL BE PLACED IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.", SDD, "TRAFFIC CONTROL, ADVANCED WARNING SIGNS FOR 45 M.P.H. OR GREATER", SDD, "TRAFFIC CONTROL ADVANCED WARNING SIGNS FOR 40 M.P.H. OR LESS", AND AS DIRECTED BY THE ENGINEER.
- DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: ADVANCED WARNING	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\023302_AW_72.DWG PLOT DATE : 7/21/2014 12:38 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : _____ PLOT SCALE : 1 " = 600'
WISDOT/CADDS SHEET 42

GENERAL NOTES FOR ALL TRAFFIC CONTRO L

- ALL SIGNS ON STH 35/64 4-LANE FACILITY SHALL BE PLACED ON BOTH SIDES OF THE ROADWAY.
- ALL SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER IN ACCORDANCE WITH ALL STANDARD DETAIL DRAWINGS.
- DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTORS METHODS OR SEQUENCE OF OPERATIONS.
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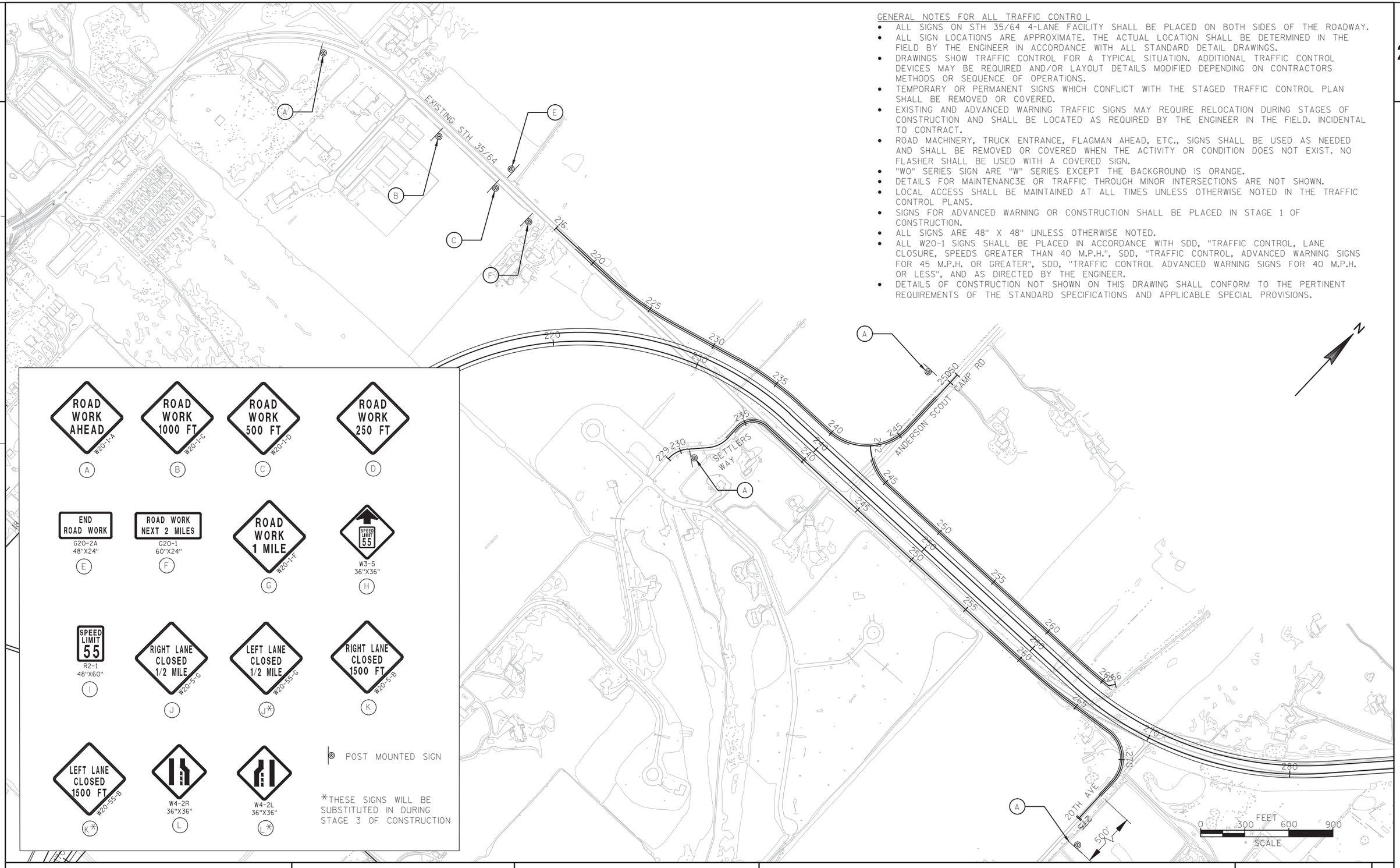
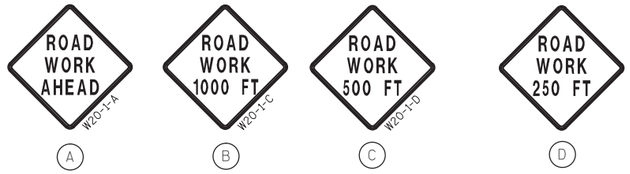


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: ADVANCED WARNING	SHEET 234	E



GENERAL NOTES FOR ALL TRAFFIC CONTRO L

- ALL SIGNS ON STH 35/64 4-LANE FACILITY SHALL BE PLACED ON BOTH SIDES OF THE ROADWAY.
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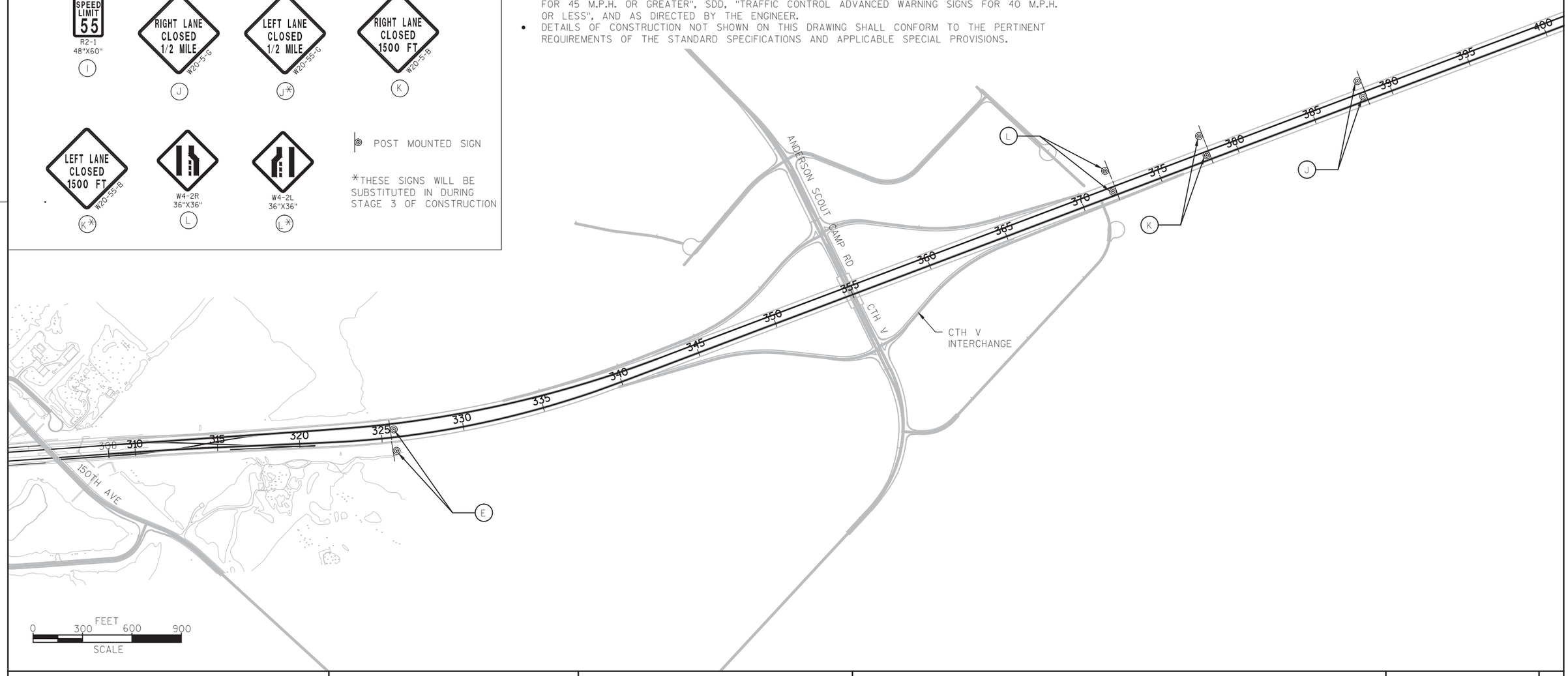
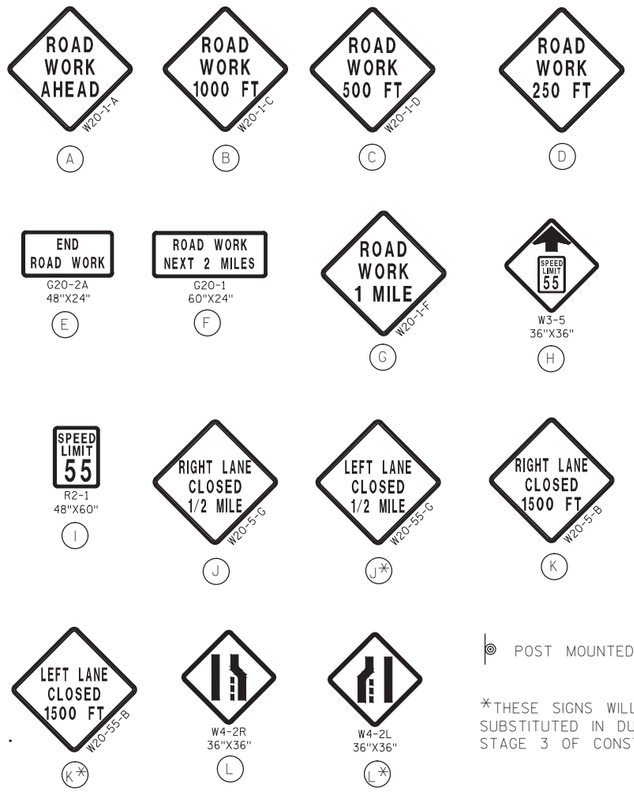


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: ADVANCED WARNING	SHEET 235	E



GENERAL NOTES FOR ALL TRAFFIC CONTROL

- ALL SIGNS ON STH 35/64 4-LANE FACILITY SHALL BE PLACED ON BOTH SIDES OF THE ROADWAY.
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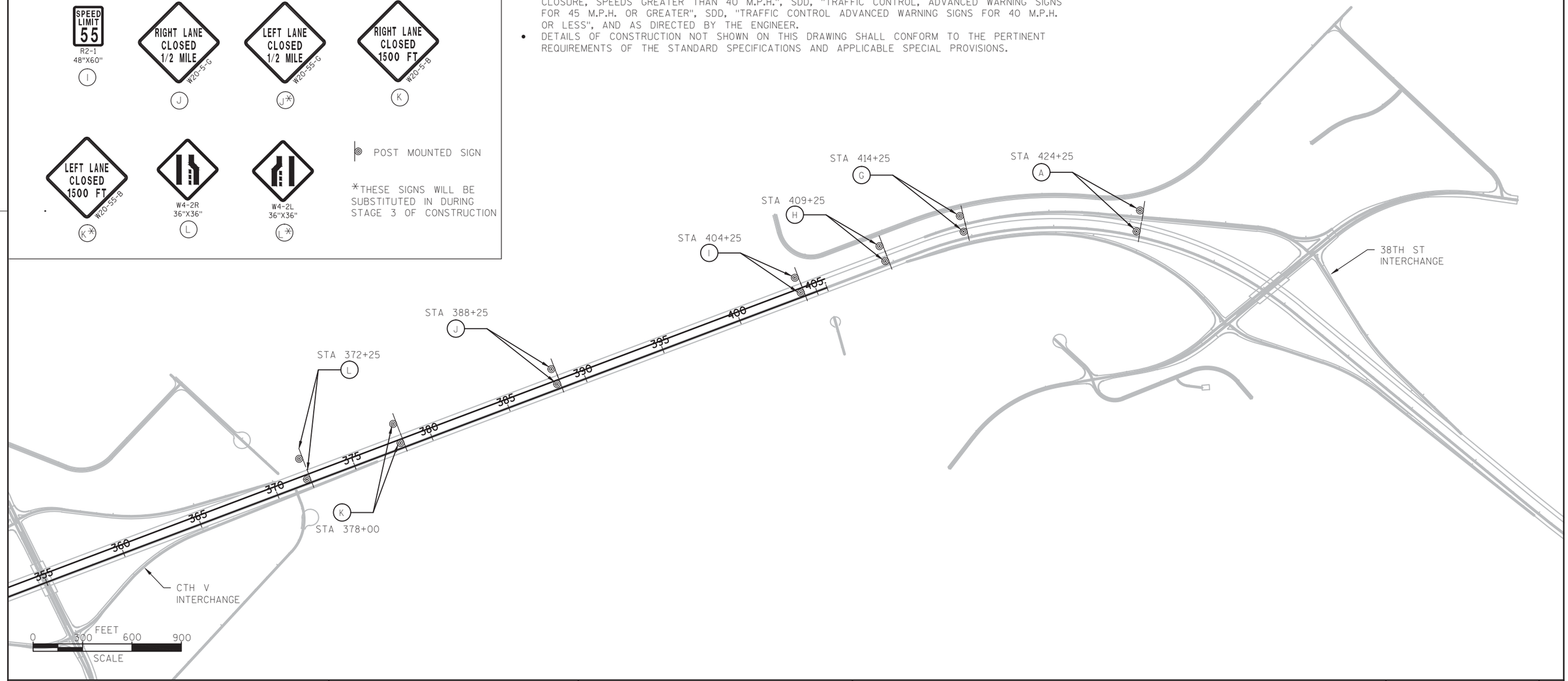


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: ADVANCED WARNING	SHEET 236	E

LEGEND:

- SINGLE ARM LIGHTING UNIT
- DOUBLE ARM LIGHTING UNIT
- CONCRETE CONTROL CABINET BASE/ELECTRICAL SERVICE
- PULL BOX (24"X42" STEEL)
- LIGHTING CONDUIT (2" SCHEDULE 40 PVC UNLESS NOTED)

XXX+XX'XX' - XX.X' XT - SLX
6 - 6 - 15 - LED B - X

- STATION
- OFFSET
- LIGHT UNIT NUMBER
- CIRCUIT LETTER (LEFT/RIGHT)
- LUMINAIRE TYPE
- MAST ARM LENGTH
- POLE TYPE
- BASE TYPE

309+11'K' - 39.3' LT - SL109
6 - 6 - 15 - LED B - B

309+86'K' - 34.5' LT - PB106

308+13'K' - 35.7' LT - SL108
6 - 6 - 15 - LED B - A

310+16'K' - 17.7' RT - PB107

307+89'K' - 35.3' LT - PB105

310+33'K' - 10.5' RT - SL110
6 - 6 - (2)15 - (2)LED B - A/B

307+74'K' - 11.6' RT - PB104

311+61'K' - 7.8' RT - SL111
6 - 6 - (2)15 - (2)LED B - B/A

305+65'K' - 13.4' RT - SL106
6 - 6 - (2)15 - (2)LED B - B/A

PETERSON ST.

N

LINE K

LINE J

STH 35 NB

STH 35 SB

MAIN ST.

303+65'K' - 16.8' RT - SL107
6 - 6 - (2)15 - (2)LED B - A/B

307+19'J' - 34.6' RT - SL105
6 - 6 - (2)15 - (2)LED B - C/D

310+05'J' - 33.5' RT - PB108

309+72'J' - 38.8' RT - CB100
FIELD LOCATE CABINET

309+50'J' - 36.1' RT - SL100
6 - 6 - 15 - LED B - D

307+96'J' - 33.1' RT - PB103

309+29'J' - 47.1' RT - PB100

R/W (TYP.)

6+08'H' - 23.0' RT - PB101

308+19'J' - 32.1' RT - SL104
6 - 6 - 15 - LED B - C

6+17'G' - 37.1' RT - PB102

6+24'H' - 12.7' RT - SL101
6 - 6 - (2)15 - (2)LED B - C/D

7+69'H' - 10.7' RT - SL102
6 - 6 - (2)15 - (2)LED B - D/C

LINE G

LINE H

9+68'H' - 10.9' RT - SL103
6 - 6 - (2)15 - (2)LED B - C/D

STAGING NOTE:

ENERGIZE STREET LIGHTING SYSTEM BY START OF STAGE 3.

NOTES:

1) WISCONSIN DOT NORTHWEST REGION ELECTRICAL UNIT SHALL APPROVE THE FINAL LOCATION FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

2) PITCH ALL CONDUITS TOWARD PULLBOXES. INSTALL A 2" DRAIN DUCT TO DITCH OR STORM SEWER AS REQUIRED FOR DRAINAGE. THIS 2" DRAIN DUCT IS INCIDENTAL TO THE PULL BOX BID ITEM. DRAIN DUCT IS NOT SHOWN. DO NOT SPLICE IN PULLBOXES.

3)THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

4) LIGHT BASES SHALL BE A MINIMUM OF 4-FEET FROM THE BACK OF CURB, 4-FEET FROM THE FACE OF GUARDRAIL, 6-FEET FROM EDGE OF SHOULDER OR 10-FEET FROM THE EDGE OF LANE.

PAGE 1 OF 6

HIGHWAY LIGHTING
STH 35 & MAIN STREET INTERSECTION
TOWN OF ST. JOSEPH ST. CROIX COUNTY
LIGHTING NO. L55-0003

REGION CONTACT: XX XXX PAGE 1 OF 1

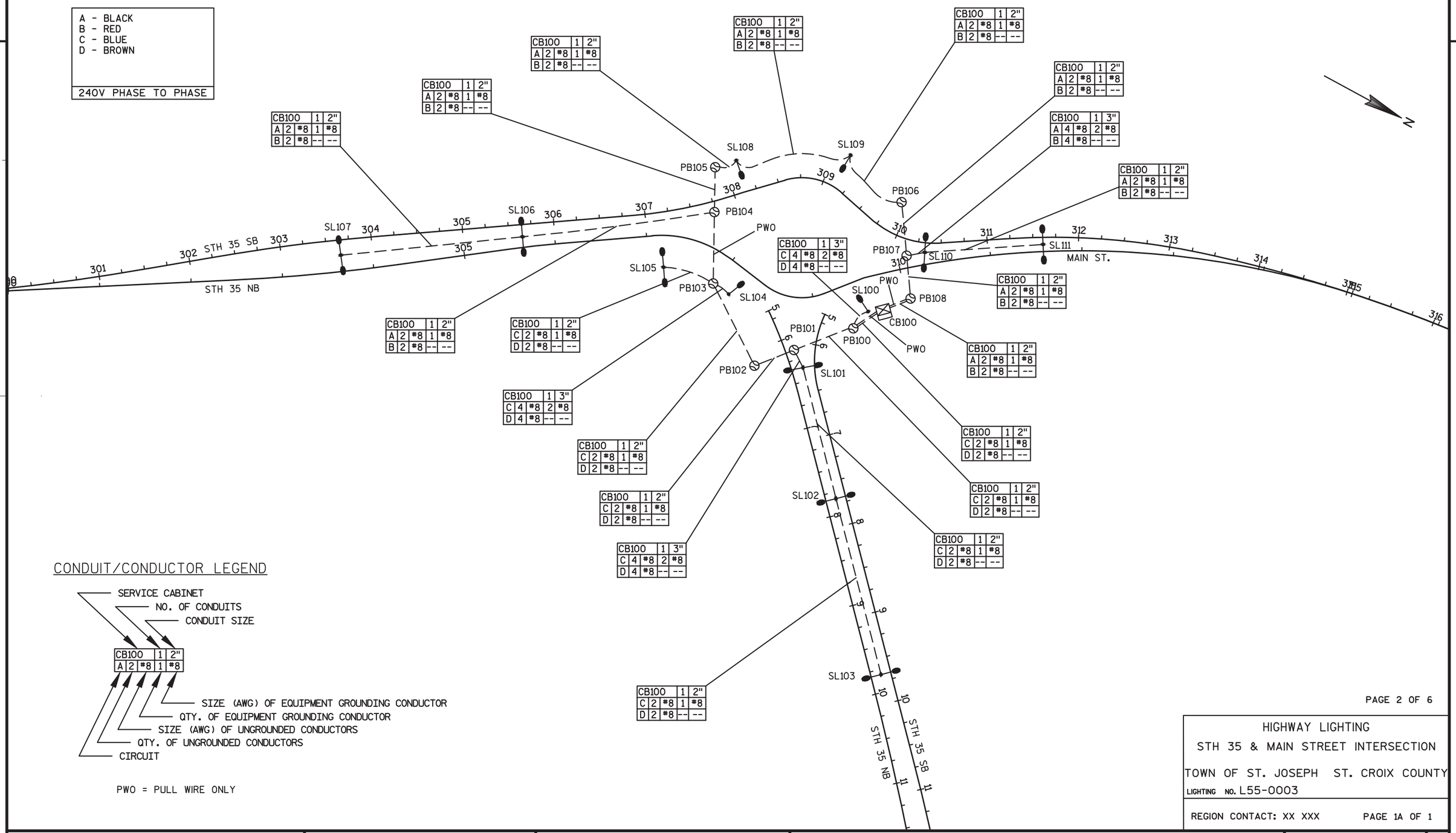
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN: LIGHTING PLANS	SHEET	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_LTG_LP.DWG PLOT DATE : 7/31/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 42

CONDUCTOR COLOR LEGEND

A - BLACK
B - RED
C - BLUE
D - BROWN

240V PHASE TO PHASE



CONDUIT/CONDUCTOR LEGEND

PWO = PULL WIRE ONLY

PAGE 2 OF 6

HIGHWAY LIGHTING
STH 35 & MAIN STREET INTERSECTION
TOWN OF ST. JOSEPH ST. CROIX COUNTY
LIGHTING NO. L55-0003

REGION CONTACT: XX XXX PAGE 1A OF 1

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN: LIGHTING PLANS	SHEET	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_LTG_LP A.DWG PLOT DATE : 7/31/2014 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

STAGING NOTE:

ENERGIZE STREET LIGHTING SYSTEM BEFORE OPENING TO TRAFFIC.

NOTES:

1) WISCONSIN DOT NORTHWEST REGION ELECTRICAL UNIT SHALL APPROVE THE FINAL LOCATION FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

2) PITCH ALL CONDUITS TOWARD PULLBOXES. INSTALL A 2" DRAIN DUCT TO DITCH OR STORM SEWER AS REQUIRED FOR DRAINAGE. THIS 2" DRAIN DUCT IS INCIDENTAL TO THE PULL BOX BID ITEM. DRAIN DUCT IS NOT SHOWN. DO NOT SPLICE IN PULLBOXES.

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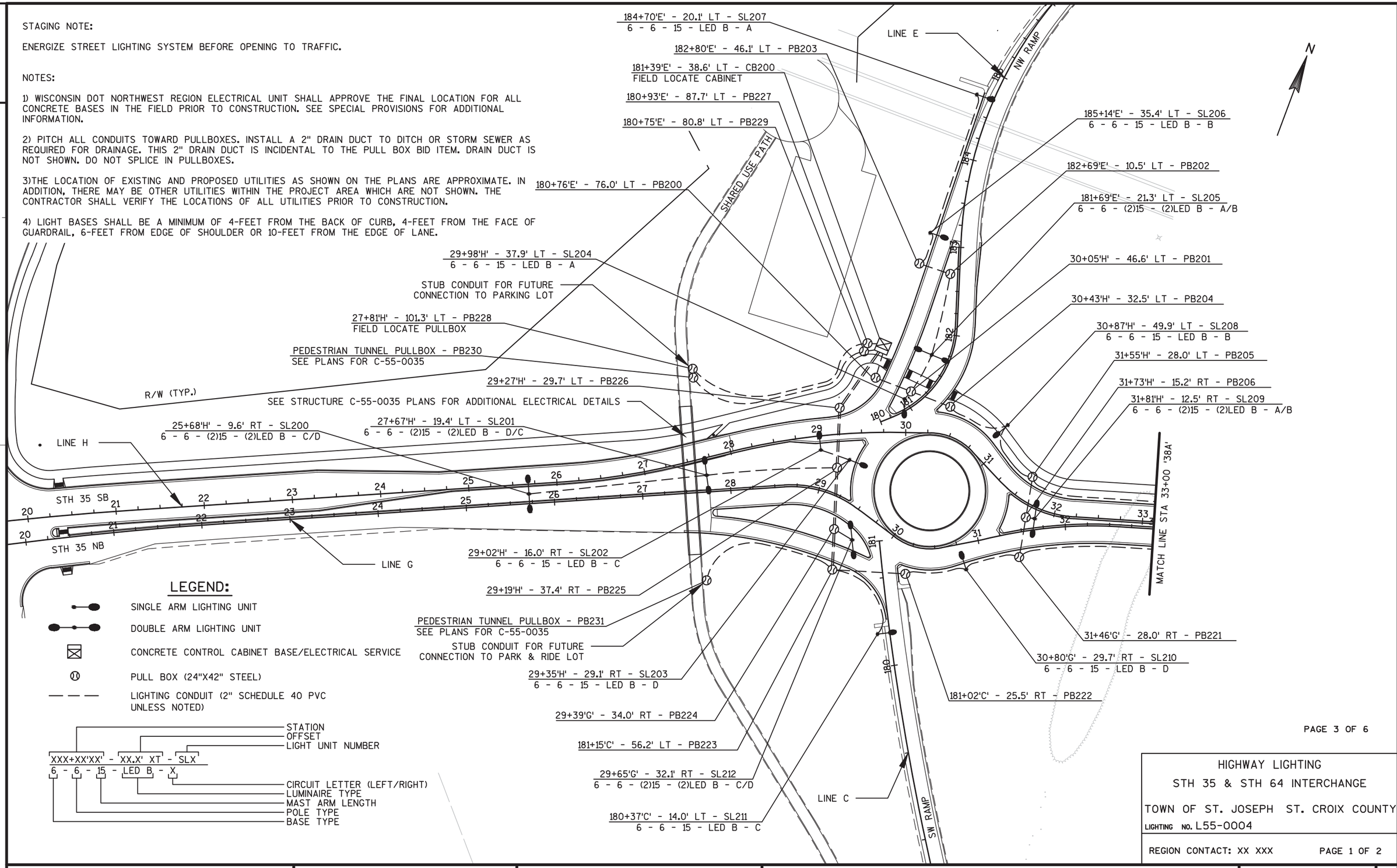
4) LIGHT BASES SHALL BE A MINIMUM OF 4-FEET FROM THE BACK OF CURB, 4-FEET FROM THE FACE OF GUARDRAIL, 6-FEET FROM EDGE OF SHOULDER OR 10-FEET FROM THE EDGE OF LANE.



LEGEND:

- SINGLE ARM LIGHTING UNIT
- DOUBLE ARM LIGHTING UNIT
- CONCRETE CONTROL CABINET BASE/ELECTRICAL SERVICE
- PULL BOX (24"X42" STEEL)
- LIGHTING CONDUIT (2" SCHEDULE 40 PVC UNLESS NOTED)

XXX+XX'XX' - XX.X' XT - SLX
6 - 6 - 15 - LED B - X

- STATION
- OFFSET
- LIGHT UNIT NUMBER
- CIRCUIT LETTER (LEFT/RIGHT)
- LUMINAIRE TYPE
- MAST ARM LENGTH
- POLE TYPE
- BASE TYPE

HIGHWAY LIGHTING
STH 35 & STH 64 INTERCHANGE
TOWN OF ST. JOSEPH ST. CROIX COUNTY
LIGHTING NO. L55-0004

REGION CONTACT: XX XXX PAGE 1 OF 2

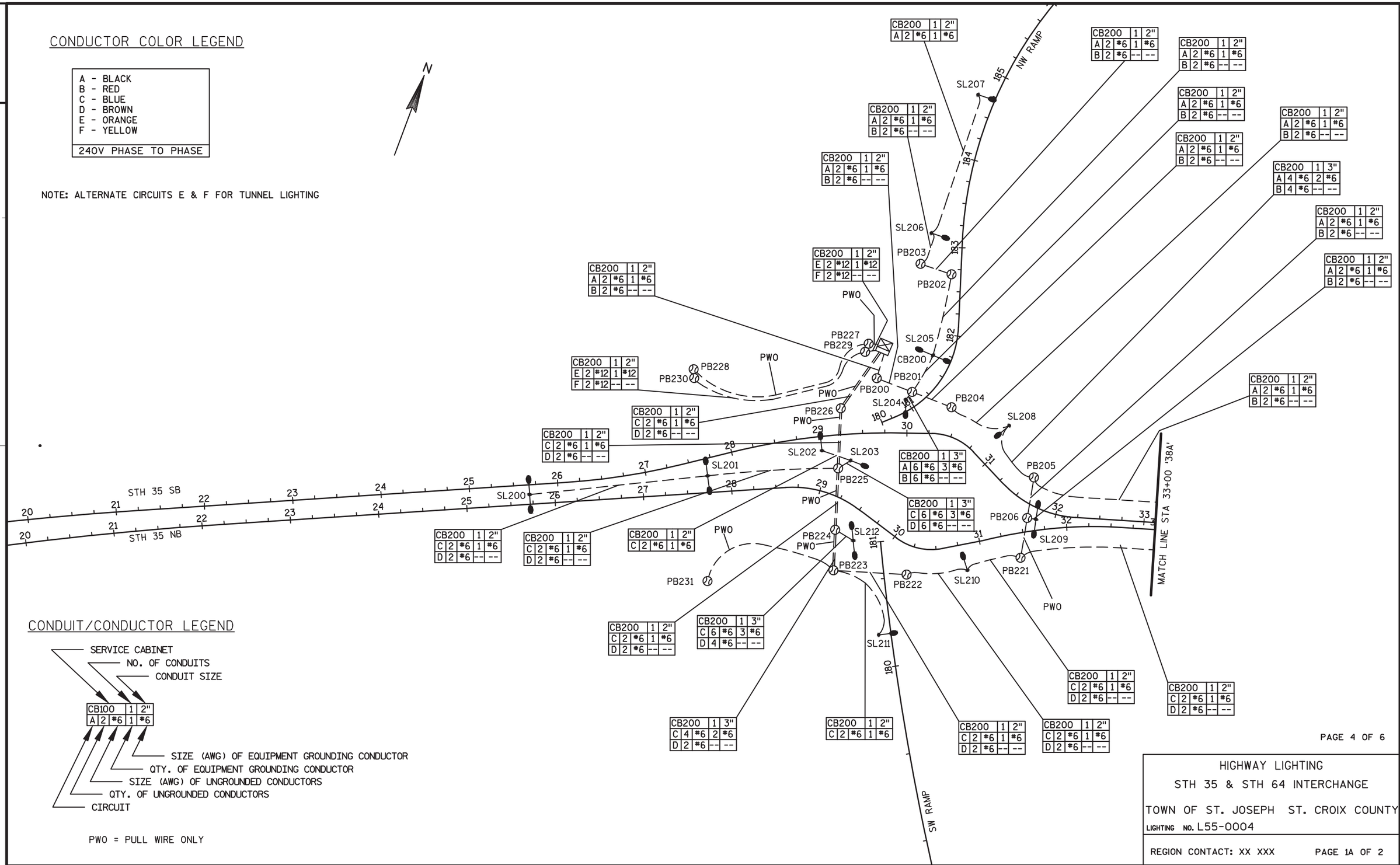
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN: LIGHTING PLANS	SHEET E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_LTG_LP.DWG PLOT DATE : 7/31/2014 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 42

CONDUCTOR COLOR LEGEND

A - BLACK
B - RED
C - BLUE
D - BROWN
E - ORANGE
F - YELLOW
240V PHASE TO PHASE

NOTE: ALTERNATE CIRCUITS E & F FOR TUNNEL LIGHTING



CONDUIT/CONDUCTOR LEGEND

PWO = PULL WIRE ONLY

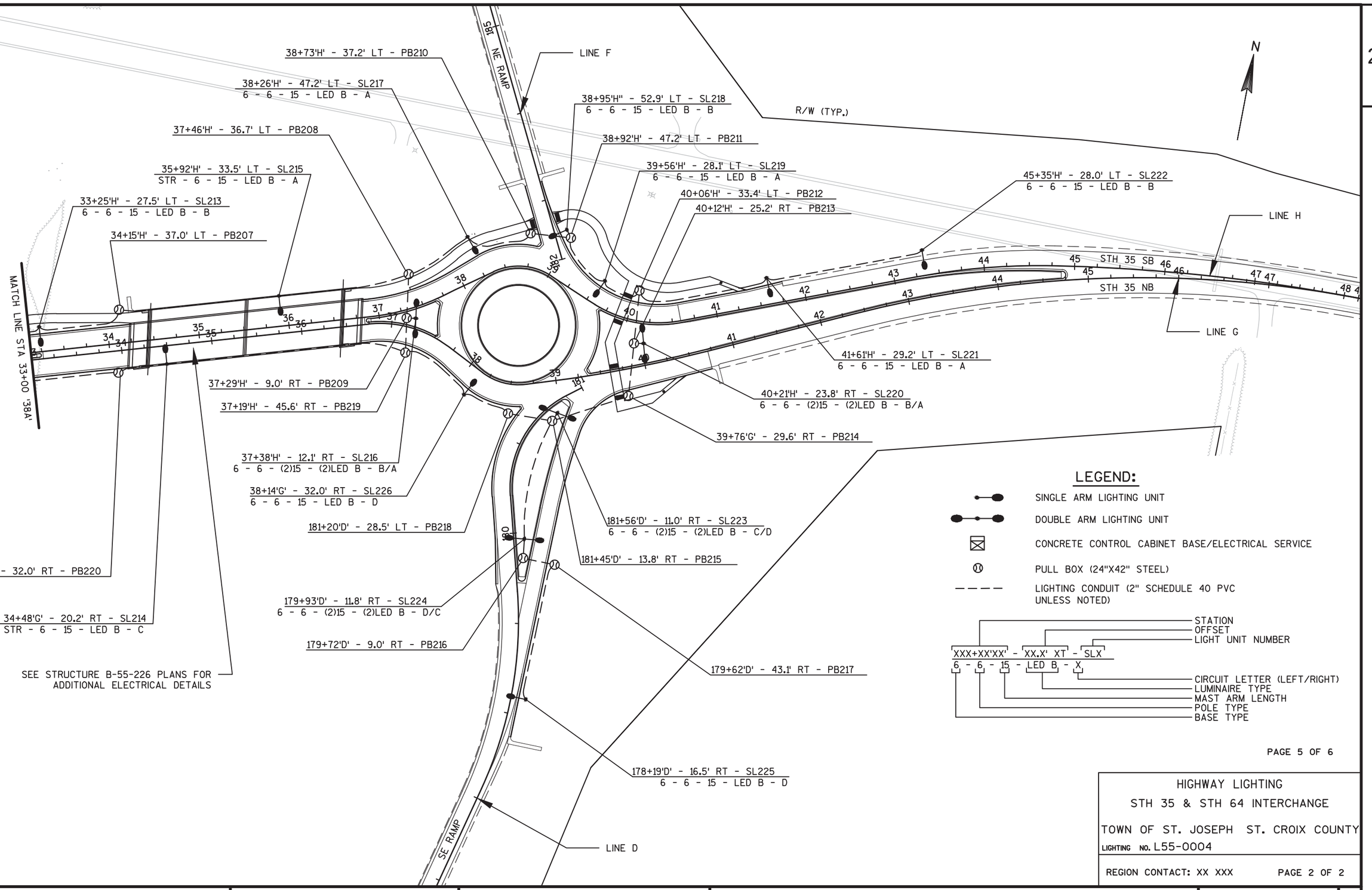
HIGHWAY LIGHTING
STH 35 & STH 64 INTERCHANGE
TOWN OF ST. JOSEPH ST. CROIX COUNTY
LIGHTING NO. L55-0004

REGION CONTACT: XX XXX PAGE 1A OF 2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN: LIGHTING PLANS	SHEET 240	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_LTG_LP A.DWG PLOT DATE : 7/31/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

2



LEGEND:

- SINGLE ARM LIGHTING UNIT
- DOUBLE ARM LIGHTING UNIT
- CONCRETE CONTROL CABINET BASE/ELECTRICAL SERVICE
- PULL BOX (24"X42" STEEL)
- LIGHTING CONDUIT (2" SCHEDULE 40 PVC UNLESS NOTED)

XXX+XX'XX' - XX.X' XT - SLX
6 - 6 - 15 - LED B - X

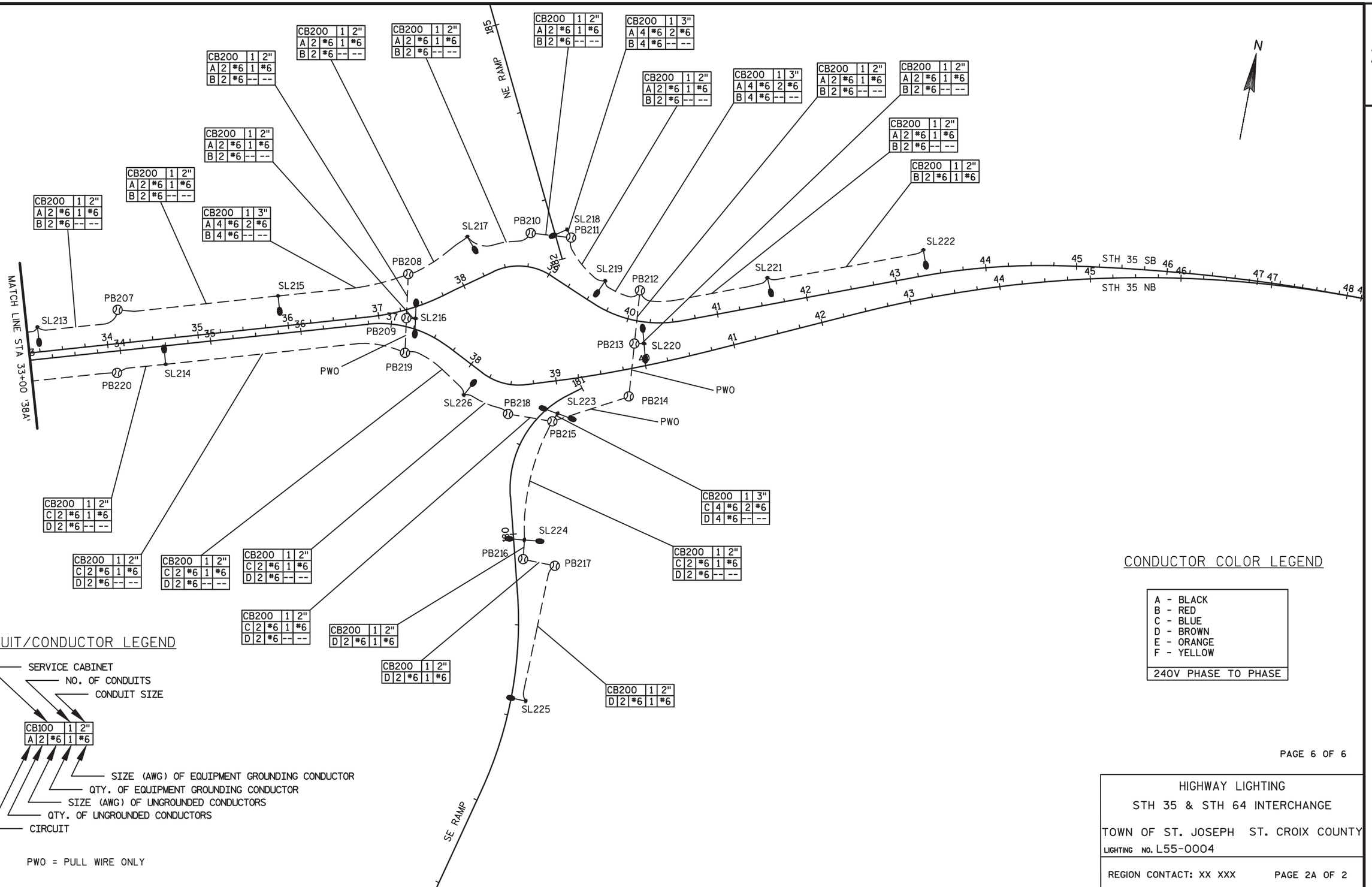
- STATION
- OFFSET
- LIGHT UNIT NUMBER
- CIRCUIT LETTER (LEFT/RIGHT)
- LUMINAIRE TYPE
- MAST ARM LENGTH
- POLE TYPE
- BASE TYPE

HIGHWAY LIGHTING
STH 35 & STH 64 INTERCHANGE
TOWN OF ST. JOSEPH ST. CROIX COUNTY
LIGHTING NO. L55-0004

REGION CONTACT: XX XXX PAGE 2 OF 2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN: LIGHTING PLANS	SHEET 241	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_LTG_LP.DWG PLOT DATE : 7/31/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 42



CONDUIT/CONDUCTOR LEGEND

PWO = PULL WIRE ONLY

CONDUCTOR COLOR LEGEND

A - BLACK
B - RED
C - BLUE
D - BROWN
E - ORANGE
F - YELLOW
240V PHASE TO PHASE

PAGE 6 OF 6

HIGHWAY LIGHTING
STH 35 & STH 64 INTERCHANGE
TOWN OF ST. JOSEPH ST. CROIX COUNTY
LIGHTING NO. L55-0004

REGION CONTACT: XX XXX PAGE 2A OF 2

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN: LIGHTING PLANS	SHEET	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_LTG_LP A.DWG PLOT DATE : 7/31/2014 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

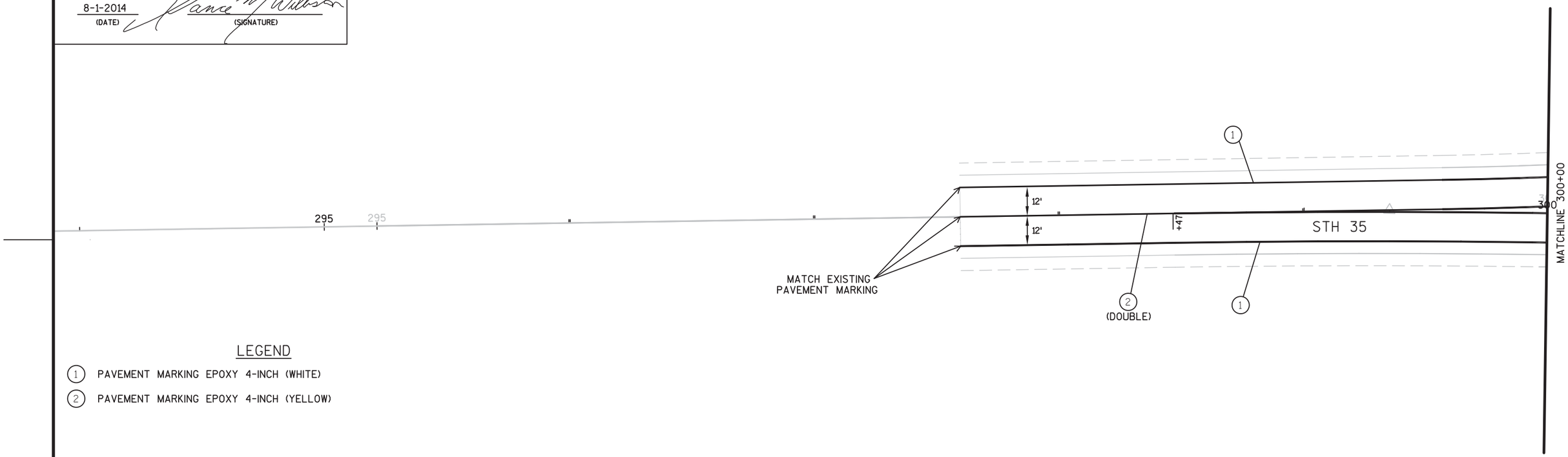
2

PAVEMENT MARKING
PLANS DESIGNED BY

WISCONSIN
LANCE M.
WILLISTON
34691-006
BELLEVILLE,
WI
PROFESSIONAL ENGINEER

8-1-2014
(DATE)

(SIGNATURE)

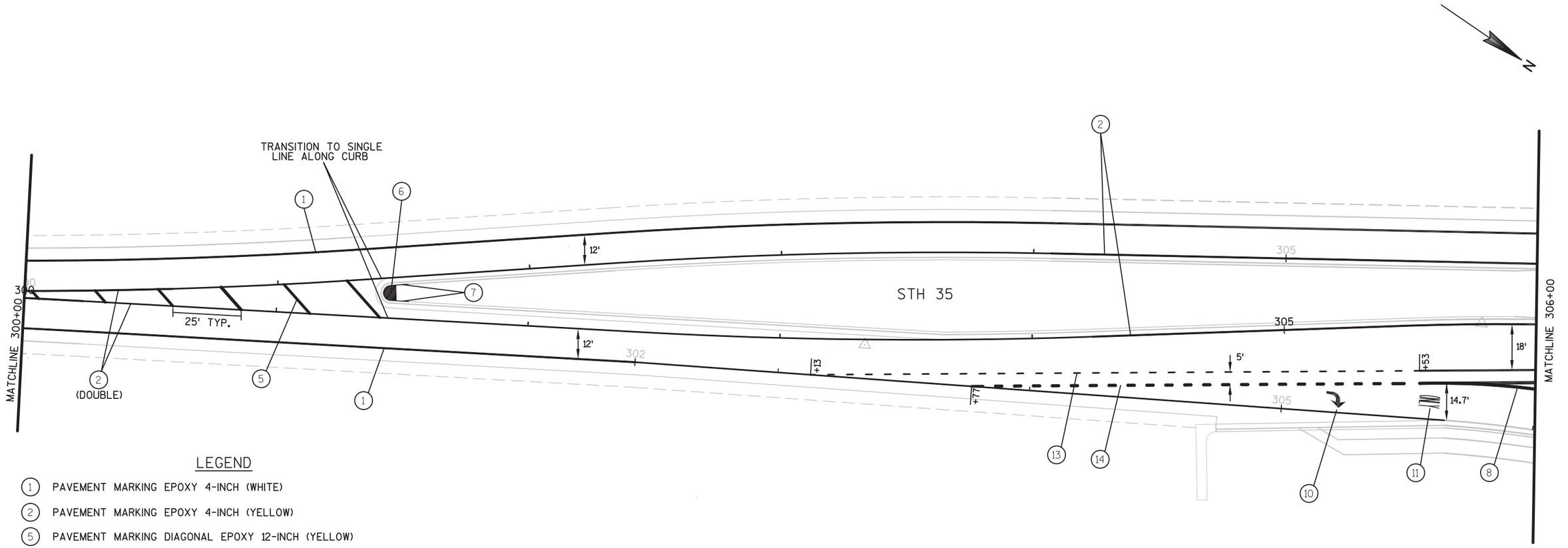


LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(2) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

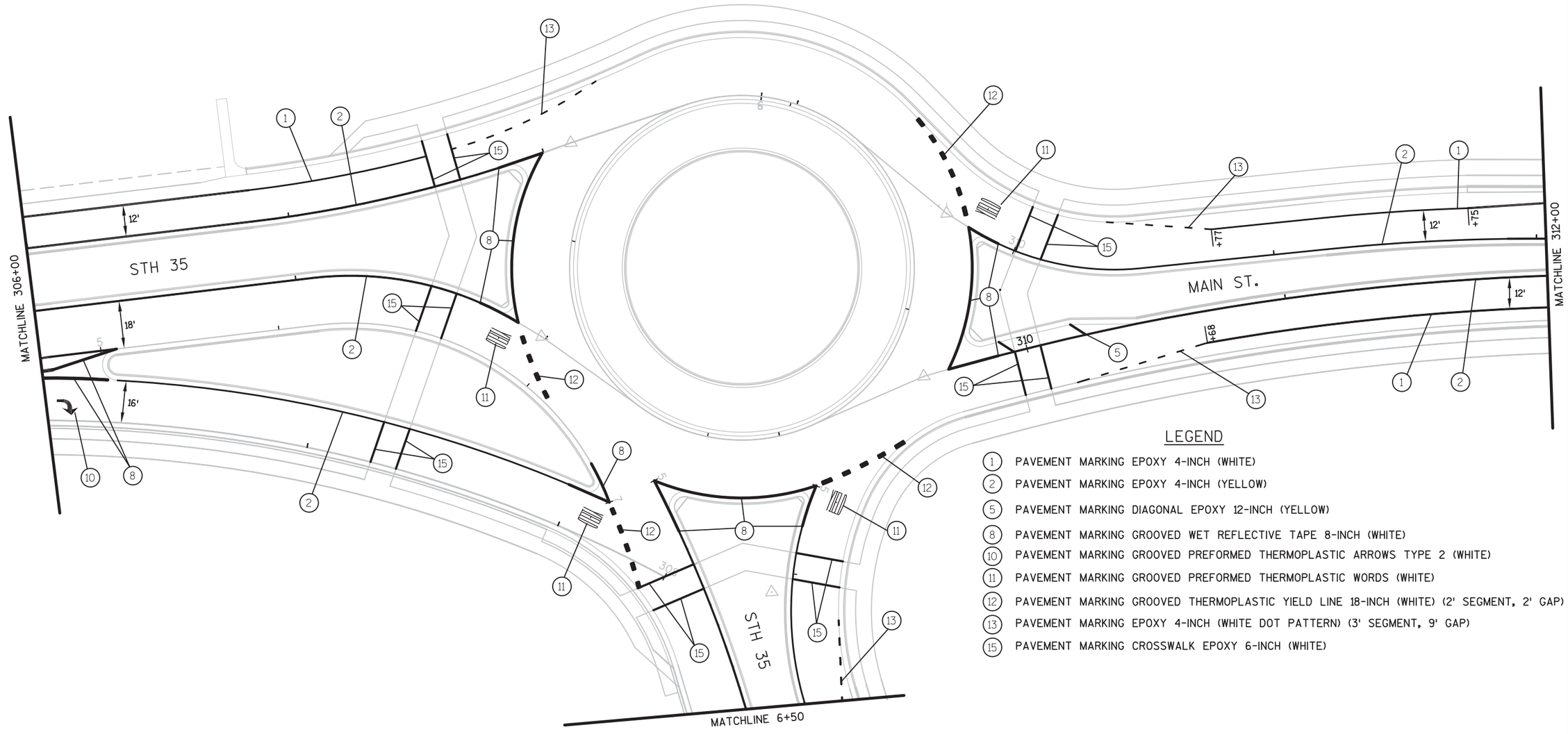
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 243	E



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
6. PAVEMENT MARKING ISLAND NOSE (YELLOW)
7. PAVEMENT MARKING CURB EPOXY (YELLOW)
8. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
10. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS (WHITE)
13. PAVEMENT MARKING EPOXY 4-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)
14. PAVEMENT MARKING EPOXY 8-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)

2

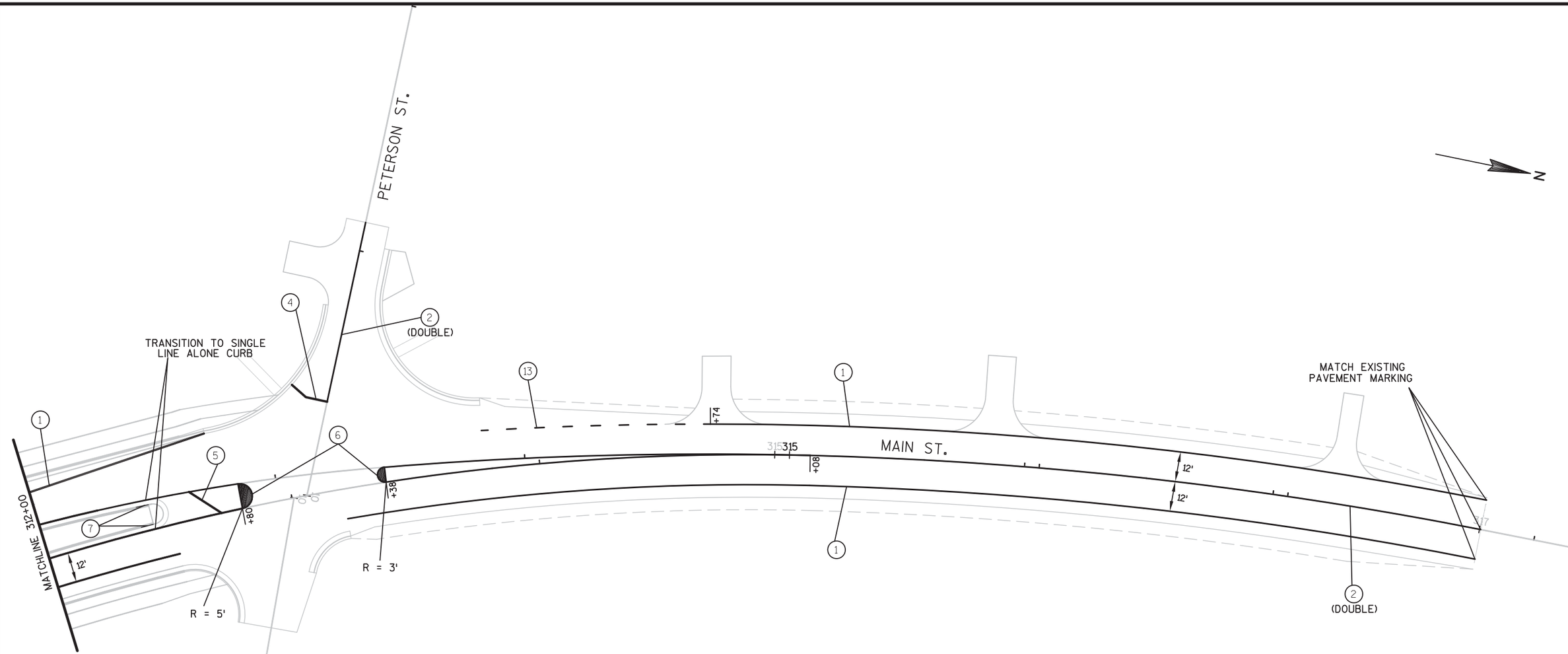


LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
8. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
10. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS (WHITE)
12. PAVEMENT MARKING GROOVED THERMOPLASTIC YIELD LINE 18-INCH (WHITE) (2' SEGMENT, 2' GAP)
13. PAVEMENT MARKING EPOXY 4-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)
15. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 245	E

2



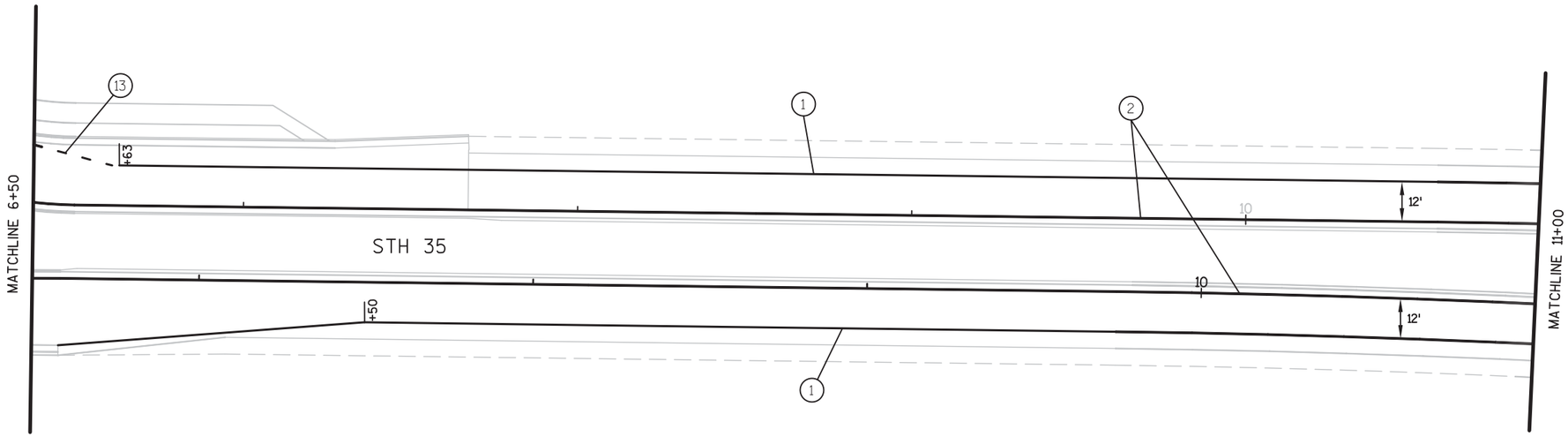
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
4. PAVEMENT MARKING EPOXY STOP LINE 18-INCH (WHITE)
5. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
6. PAVEMENT MARKING ISLAND NOSE (YELLOW)
7. PAVEMENT MARKING CURB EPOXY (YELLOW)
13. PAVEMENT MARKING EPOXY 4-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 246	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\024501-PM.DWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:40_XREF

2



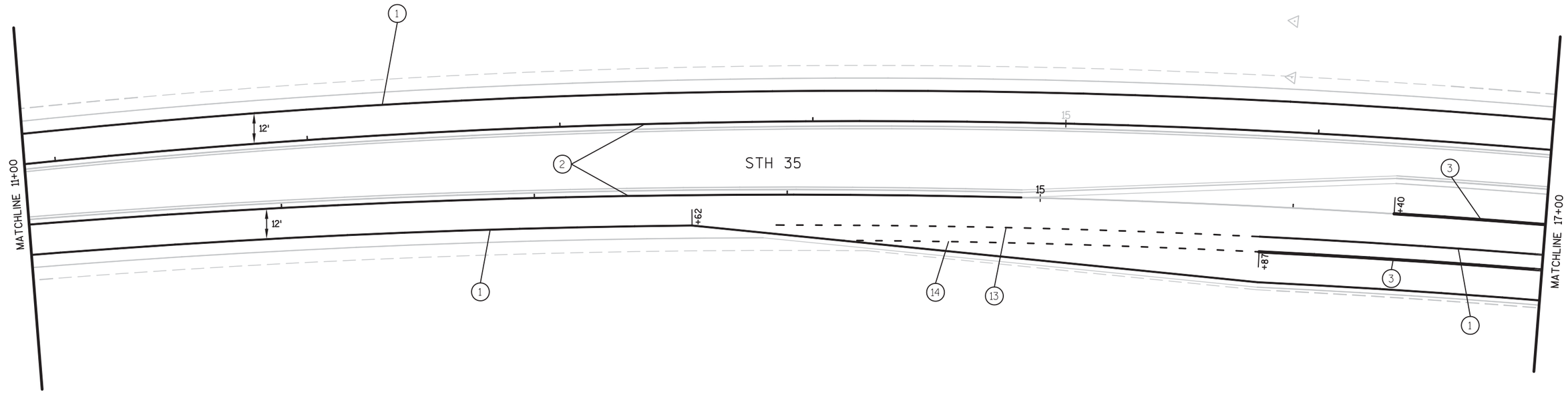
LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(2) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(13) PAVEMENT MARKING EPOXY 4-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)

2

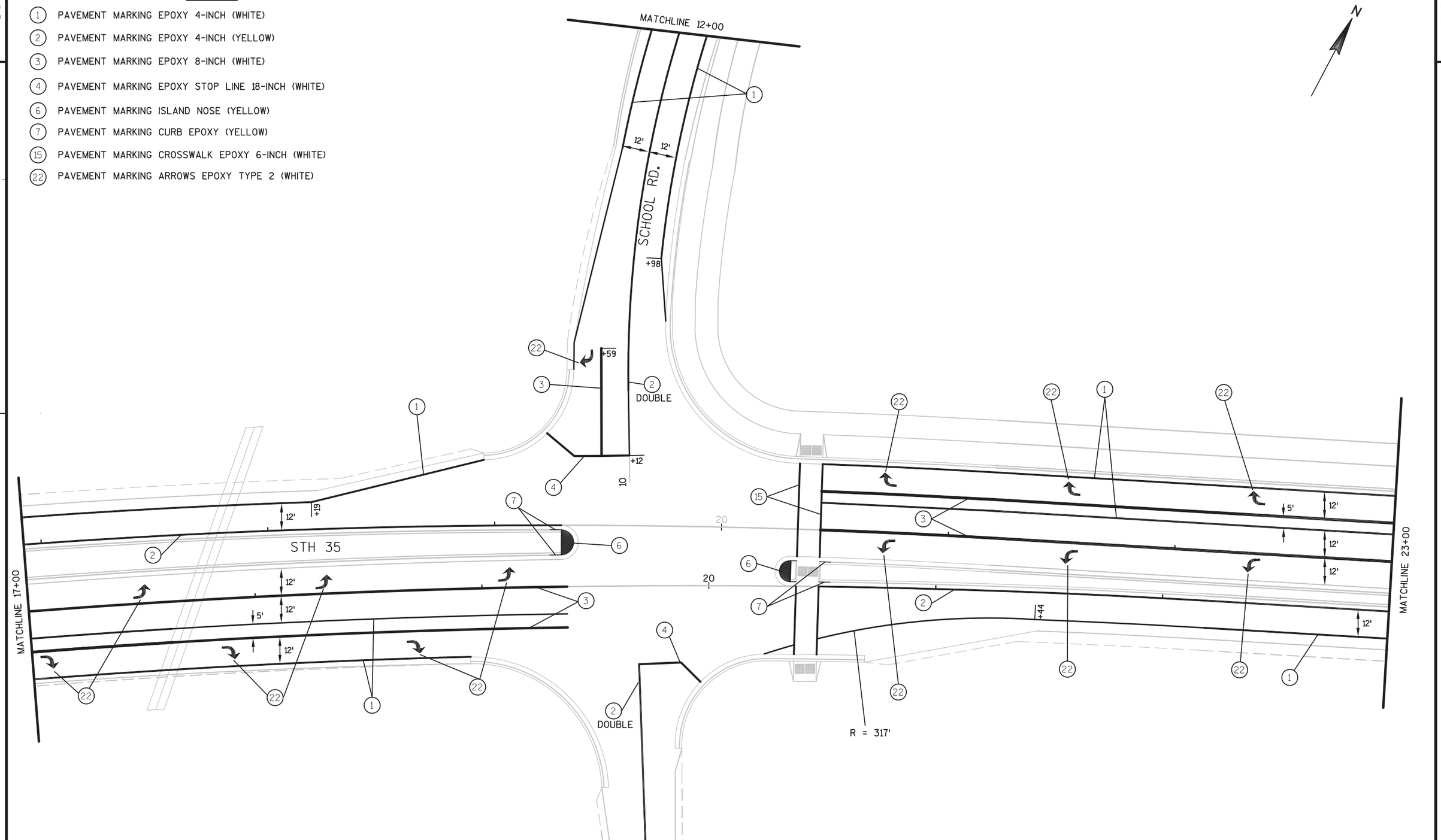


LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
13. PAVEMENT MARKING EPOXY 4-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)
14. PAVEMENT MARKING EPOXY 8-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)

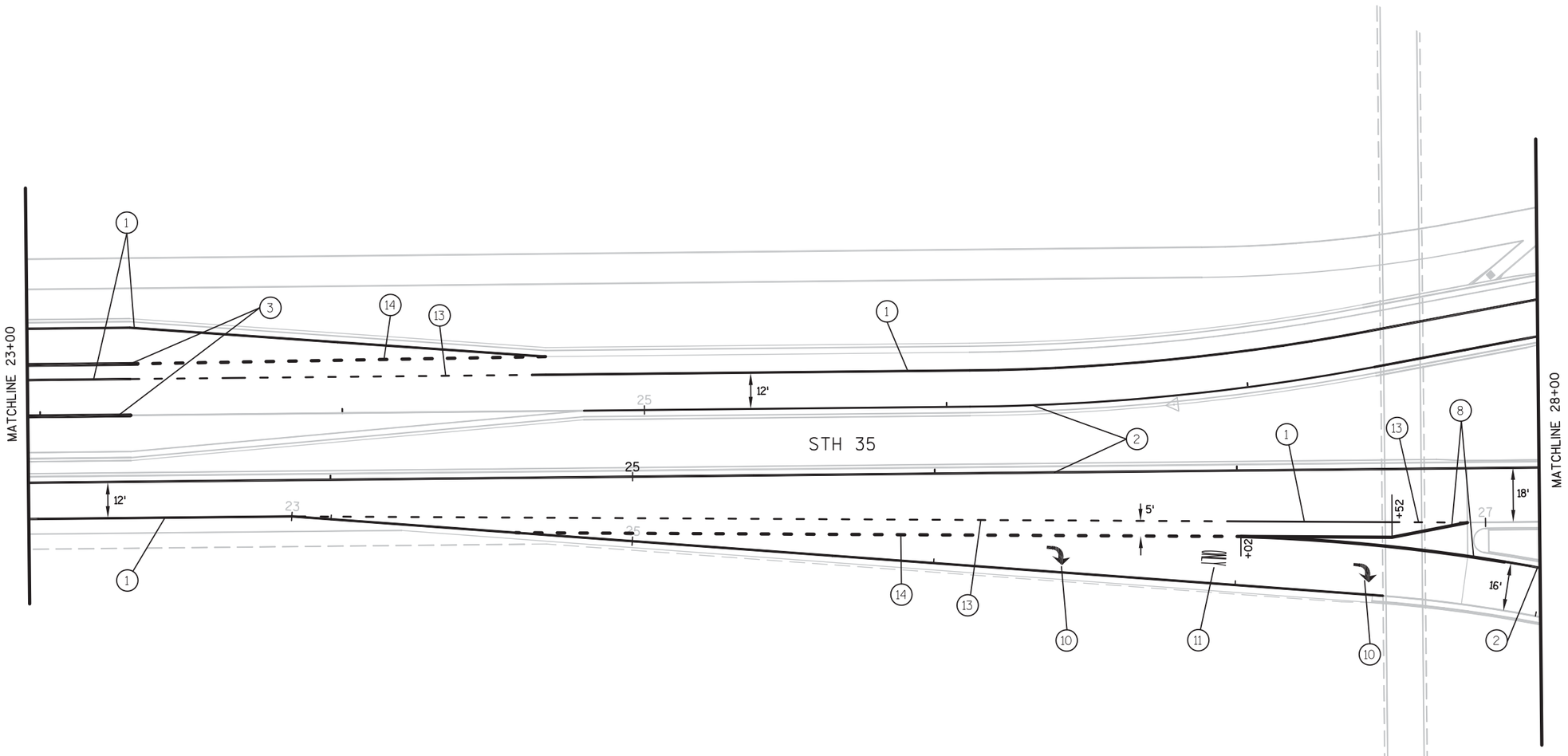
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
4. PAVEMENT MARKING EPOXY STOP LINE 18-INCH (WHITE)
6. PAVEMENT MARKING ISLAND NOSE (YELLOW)
7. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
22. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 249	E

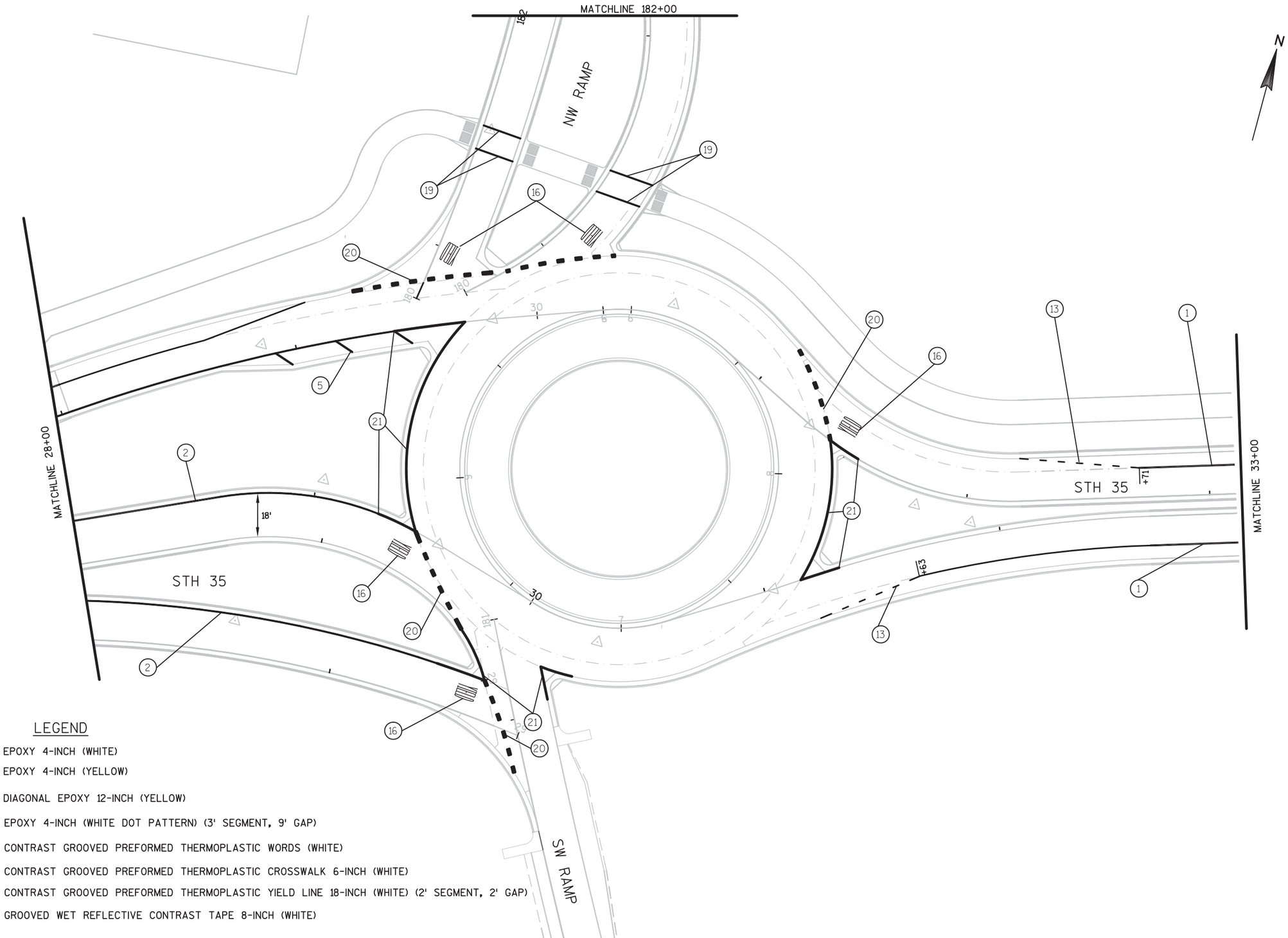
2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
8. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
10. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS (WHITE)
13. PAVEMENT MARKING EPOXY 4-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)
14. PAVEMENT MARKING EPOXY 8-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 250	E

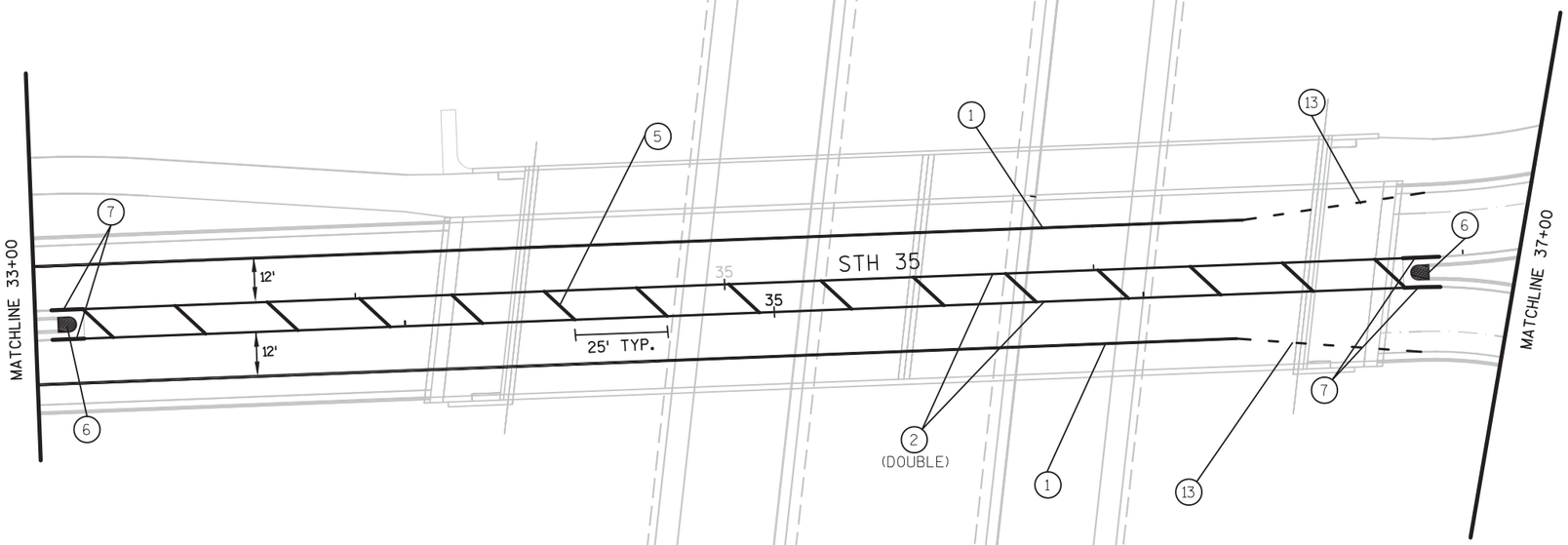


LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
13. PAVEMENT MARKING EPOXY 4-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)
16. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC WORDS (WHITE)
19. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH (WHITE)
20. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC YIELD LINE 18-INCH (WHITE) (2' SEGMENT, 2' GAP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)

2

N



LEGEND

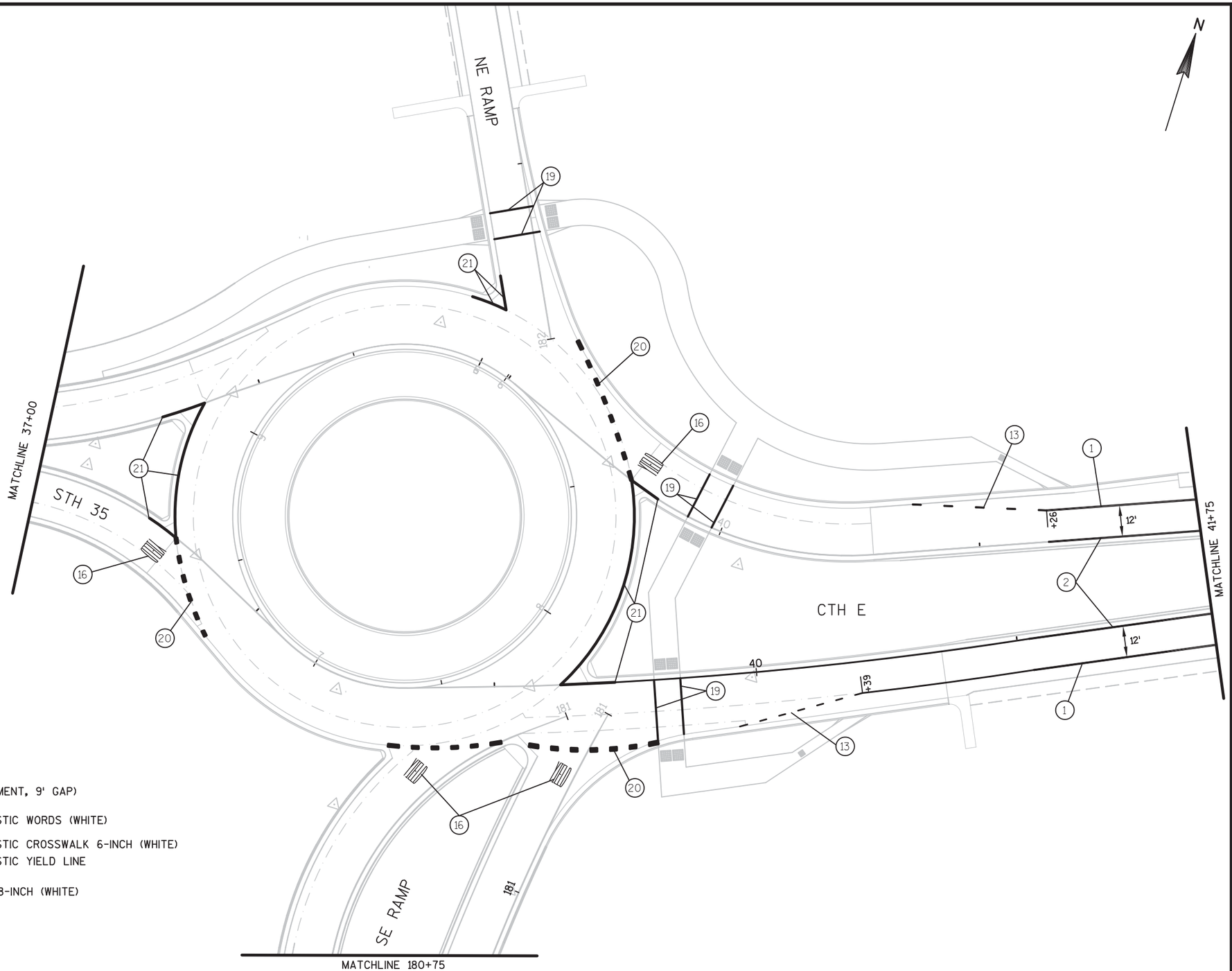
1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
6. PAVEMENT MARKING ISLAND NOSE (YELLOW)
7. PAVEMENT MARKING CURB EPOXY (YELLOW)

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 252	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\024501-PM.DWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2



LEGEND

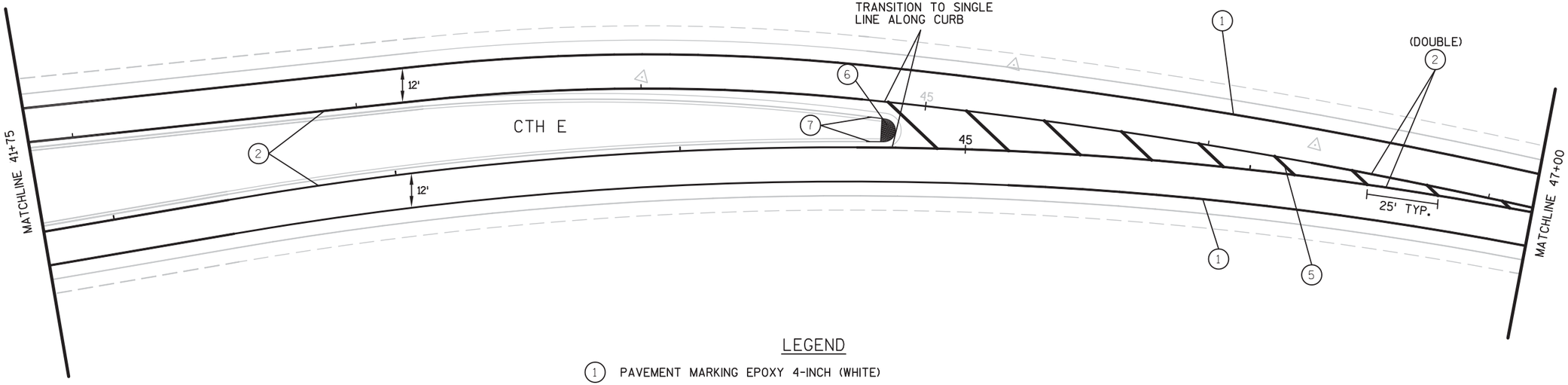
1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
13. PAVEMENT MARKING EPOXY 4-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)
16. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC WORDS (WHITE)
19. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH (WHITE)
20. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC YIELD LINE 18-INCH (WHITE)(2' SEGMENT, 2' GAP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 253	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\024501-PM.DWGT DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

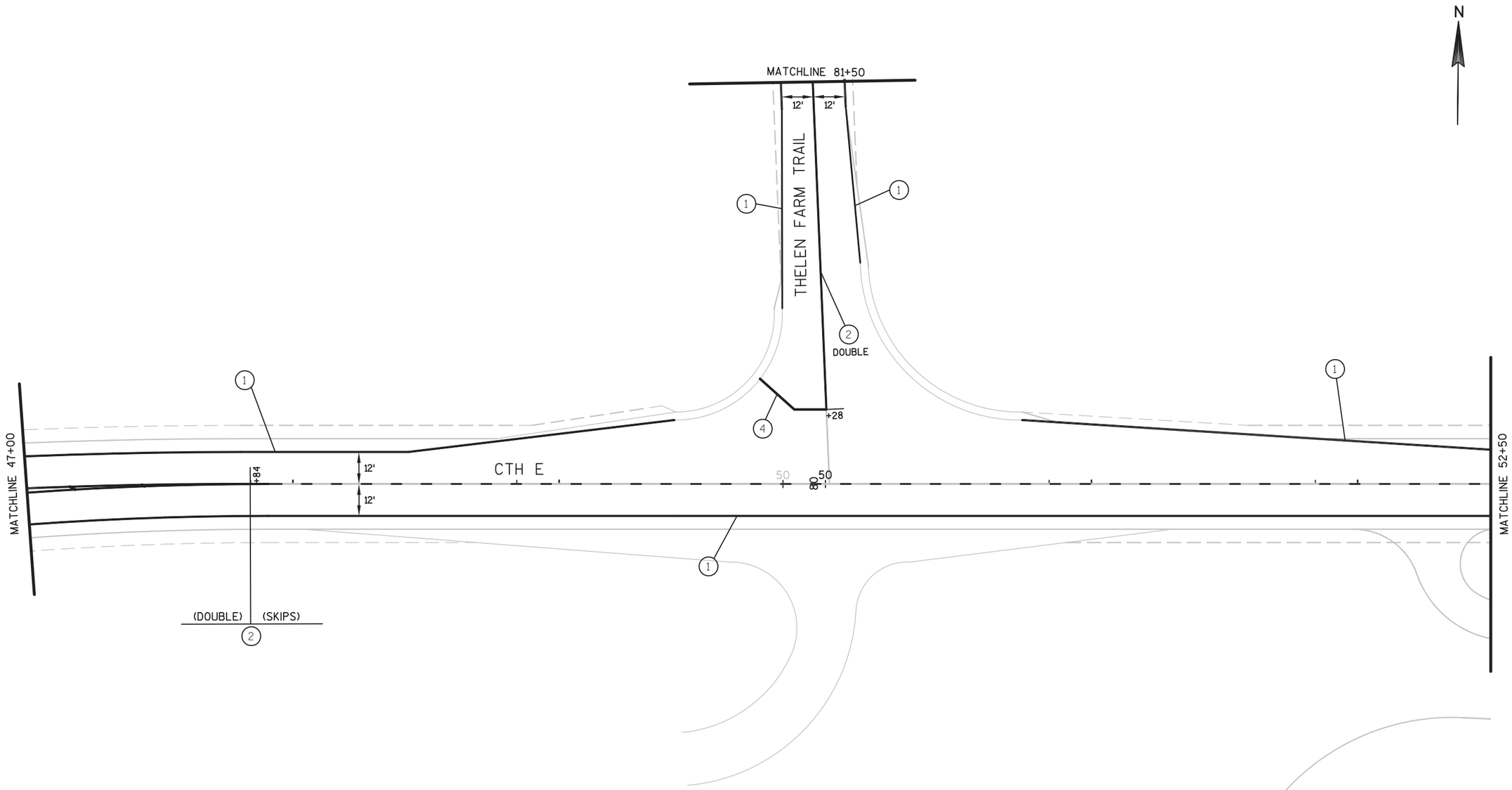
2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
6. PAVEMENT MARKING ISLAND NOSE (YELLOW)
7. PAVEMENT MARKING CURB EPOXY (YELLOW)

2



LEGEND

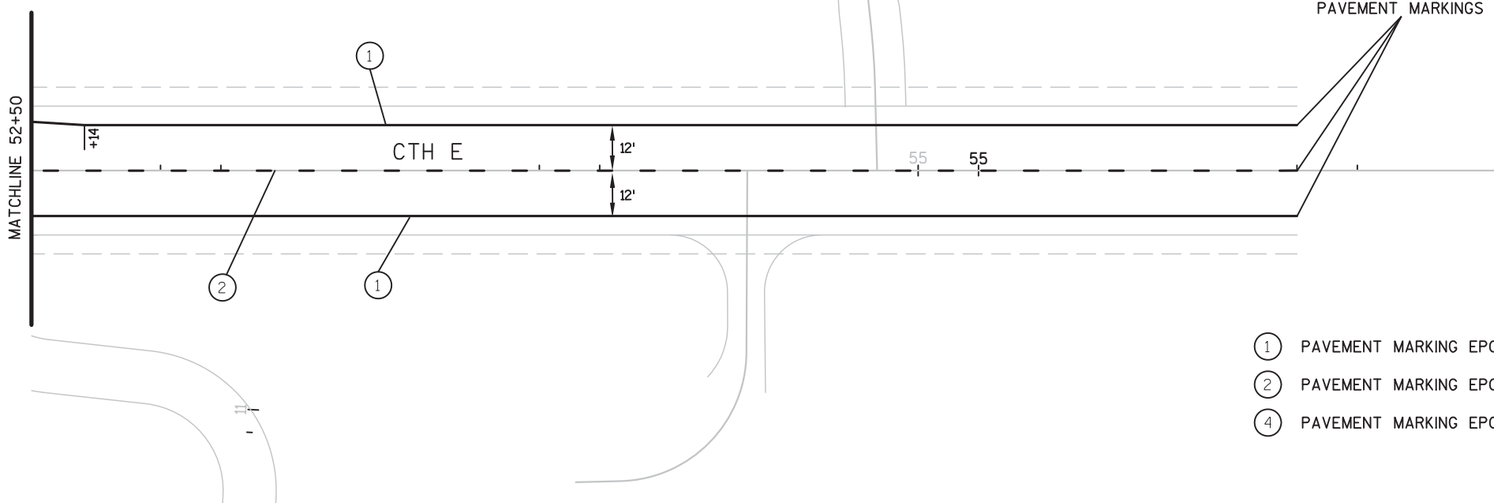
1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
4. PAVEMENT MARKING EPOXY STOP LINE 18-INCH (WHITE)

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 255	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 DESIGN WORK ORDERS)\WORK ORDER 002 (STH 64)\CIVIL3D\SHEETSPLAN\KL_SIGNING & MARKING\024501-PM.DWG DATE : 7/25/2014 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:40_XREF

2

N



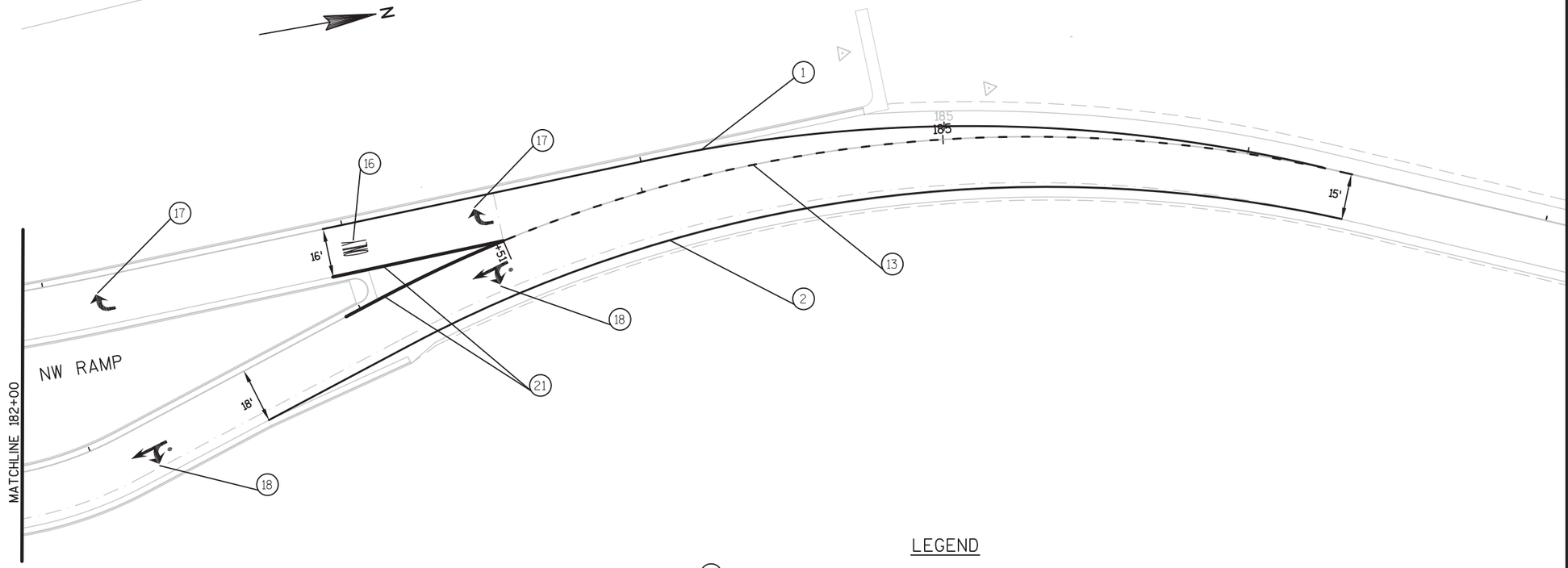
LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(2) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(4) PAVEMENT MARKING EPOXY STOP LINE 18-INCH (WHITE)

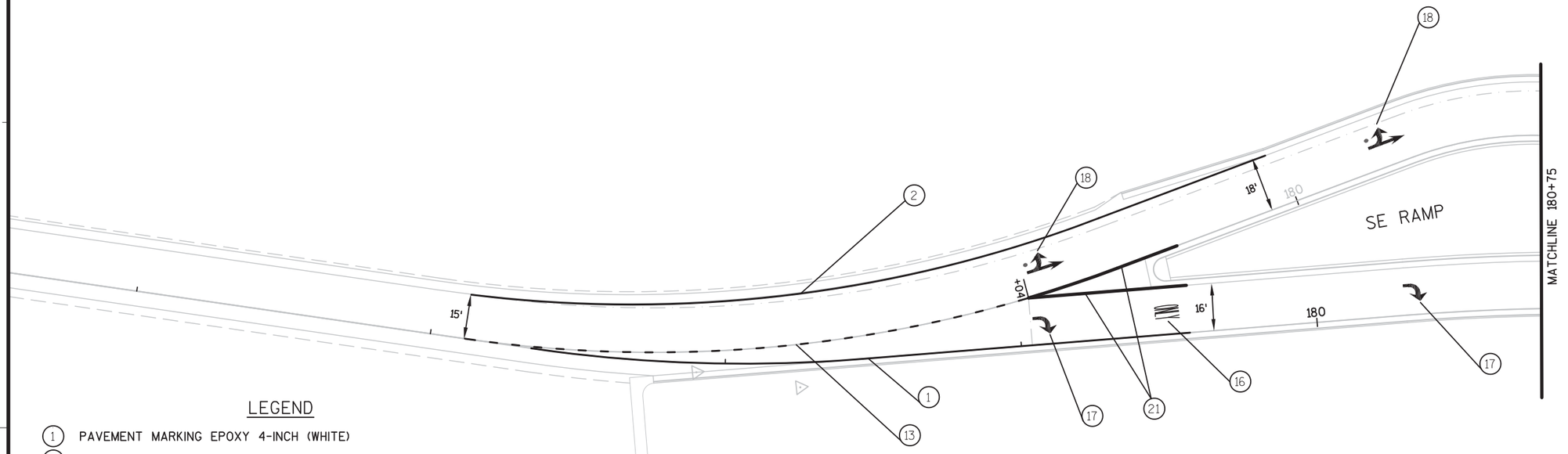
2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
13. PAVEMENT MARKING EPOXY 4-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)
16. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC WORDS (WHITE)
17. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 (WHITE)
18. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3R (WHITE)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)

2

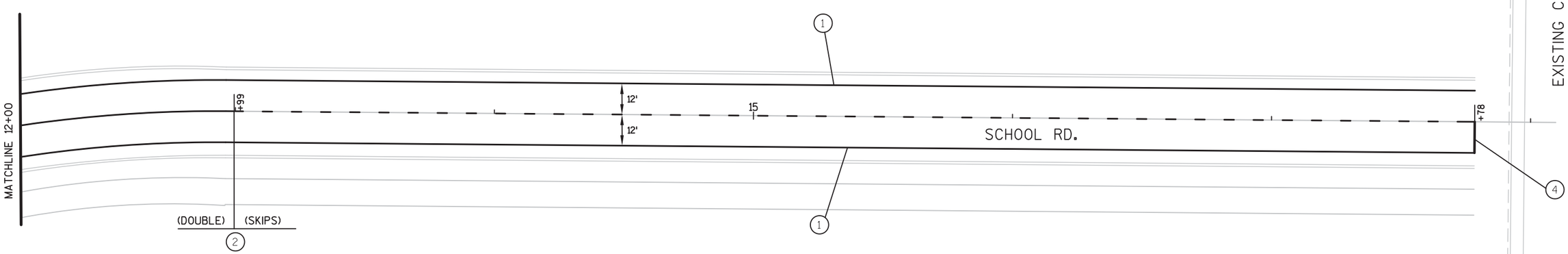


LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
(2) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(13) PAVEMENT MARKING EPOXY 4-INCH (WHITE DOT PATTERN) (3' SEGMENT, 9' GAP)
(16) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC WORDS (WHITE)
(17) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 (WHITE)
(18) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3R (WHITE)
(21) PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)

2

N



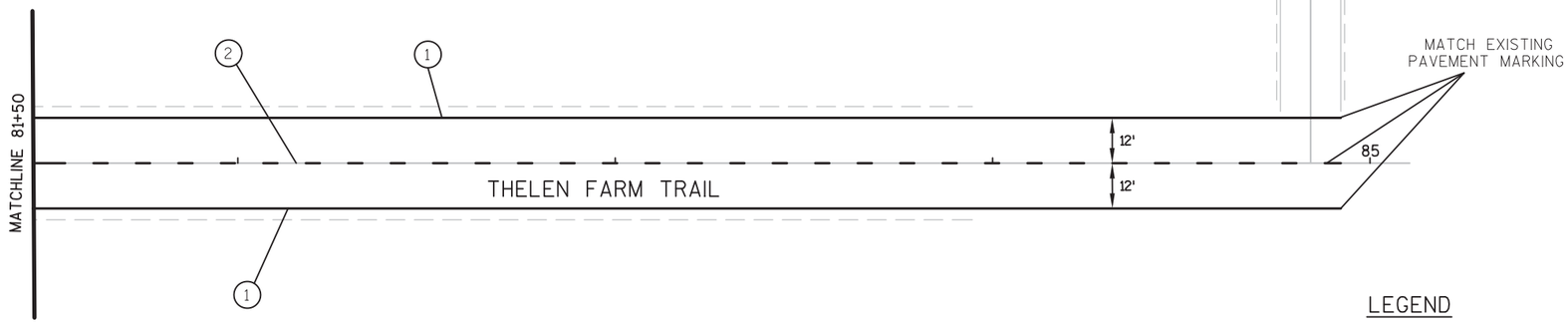
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
4. PAVEMENT MARKING EPOXY STOP LINE 18-INCH (WHITE)

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 259	E

2

N



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 260	E

2

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

N

FRONTAGE ROAD A

(SKIPS) (2) (DOUBLE)

STA BACK 237+08.40
STA AHEAD 237+08.40

MATCH EXISTING PAVEMENT MARKING

(2) (SKIPS) (DOUBLE)

ANDERSON SCOUT CAMP ROAD

STH 35/64 WB--SEE TRAFFIC CONTROL FOR PAVEMENT MARKINGS

STH 35/64 EB--TO BE COMPLETED IN FUTURE CONTRACT

SETTLER'S WAY

FRONTAGE ROAD C

(DOUBLE) (SKIPS) (2)

MATCH EXISTING PAVEMENT MARKING

CONTINUE TO STA. 257+00

FRONTAGE ROAD B

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 261	E

2

2

N

LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(2) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

260

265

266

FRONTAGE ROAD B

STH 35/64 WB--SEE TRAFFIC CONTROL FOR PAVEMENT MARKINGS

PC 263+70.68

270

260

265

STH 35/64 EB--TO BE COMPLETED IN FUTURE CONTRACT

FRONTAGE ROAD C

260

265

270

1

1

CONTINUED FROM STA. 243+00

(SKIPS) (DOUBLE)

2

1

1

20TH ST.

MATCH EXISTING
PAVEMENT MARKING

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 262	E

GENERAL STAGE 1 SOUTH TRAFFIC CONTROL NOTES:
- CONSTRUCT BYPASS LANES AT STH 35/MAIN ST ROUNDABOUT
- CONSTRUCT GLEN POND
- BEGIN GRADE AND CONSTRUCT PORTIONS OF STH 35/CTH E E.B. AND W.B. (STA 19+00-40+00) AND SCHOOL ROAD THAT DO NOT REQUIRE EXISTING CTH E CLOSURE
- BEGIN CONSTRUCTION OF STRUCTURES B-55-226, C-55-35, AND C-55-36

TRAFFIC:
- TRAFFIC ON EXISTING STH 35
- TRAFFIC ON EXISTING CTH E

N

CONSTRUCT POND: GLEN

EXISTING STH 64

EXISTING STH 35

GRADE AND CONSTRUCT PORTIONS OF STH 35/CTH E (STA 19+00-40+00)

EXISTING CTH E

NW RAMP

NE RAMP

CONSTRUCT B-55-226

EXISTING CTH E TO REMAIN OPEN TO TRAFFIC

THELEN FARM TRAIL

55 CTH E

SCHOOL RD

CONSTRUCT C-55-36

CONSTRUCT C-55-35

SW RAMP

STH 64 WB

STH 64 EB

SE RAMP

STH 35 SB

STH 35 NB

CONSTRUCT BYPASS LANES AT STH 35/MAIN ST

STH 35

TRAFFIC REMAINS ON EXISTING STH 35

SHARED USE PATH

WORK ZONE

DIRECTION OF TRAFFIC

0 300 600 900 FEET
SCALE

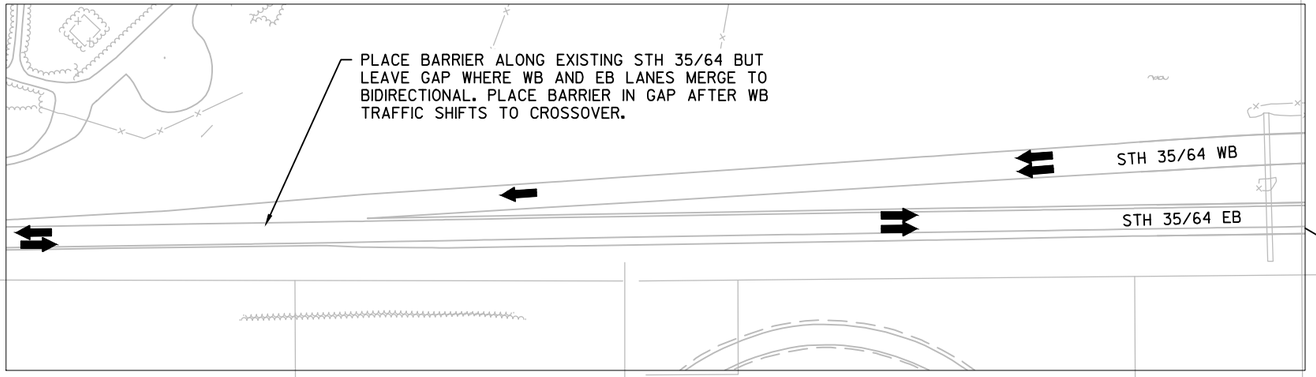
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC OVERVIEW: STAGE 1 SOUTH	SHEET 263	E

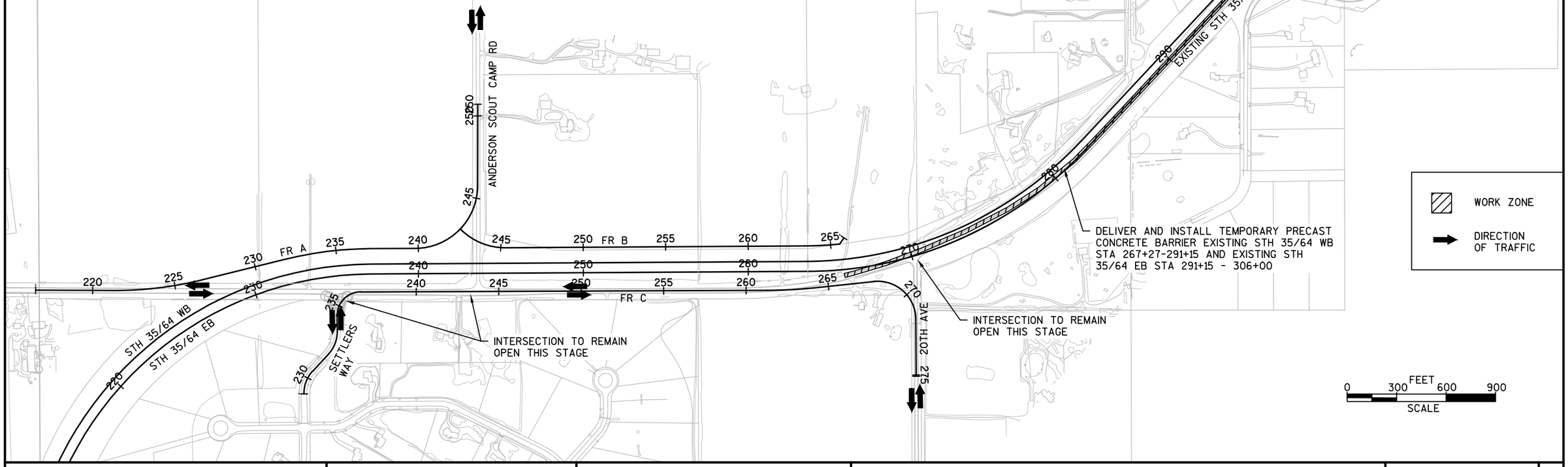
GENERAL STAGE 1 NORTH TRAFFIC CONTROL NOTES:

- INSTALL TEMPORARY PRECAST CONCRETE BARRIER; EXISTING STH 64 WB STA 267+27-291+15 AND EXISTING STH 35/64 EB STA 291+15 - 306+00.
- PREPARE 150TH CROSSOVER AND STH 64 WB STA 290+00 - 310+00 FOR WB TRAFFIC SHIFT ONTO EXISTING STH 64 EB INSIDE LANE.

TRAFFIC:

- TRAFFIC ON EXIST STH 35/64
- UPON COMPLETION OF CONCRETE BARRIER, SHIFT BIDIRECTIONAL TRAFFIC TO EB LANES





PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC OVERVIEW: STAGE 1 NORTH	SHEET 264	E

2

GENERAL STAGE 2 SOUTH TRAFFIC CONTROL NOTES:
- CONTINUE GRADING STH 35/CTH E OFF ALIGNMENT.
- CONSTRUCT AND COMPLETE STH 35/MAIN ST ROUNDABOUT FOR THROUGH TRAFFIC.
- BEGIN CONSTRUCTION STH 64 E.B. AND W.B. STA 200+00-225+00.
- COMPLETE CONSTRUCTION STRUCTURES B-55-226, C-55-35, C-55-36.

TRAFFIC:
- SHIFT STH 35 TRAFFIC TO BYPASS LANES.
- CTH E OPEN TO TRAFFIC

CONSTRUCT STH 35/64 EB/WB
STA 200+00-225+00

GLEN POND

EXISTING STH 35

EXISTING STH 64

THELEN FARM TRAIL

INTERSECTION OPEN TO TRAFFIC THIS STAGE

CONTINUE GRADING AND CONSTRUCTION
OF STH 35/CTH E STA 19+00-40+00

EXISTING CTH E

CTH E

SCHOOL RD

NW RAMP

NE RAMP

SW RAMP

SE RAMP

STH 64 W.B.

STH 64 E.B.

STH 35 SB

STH 35 NB

STH 35

SHARED USE PATH

COMPLETE CONSTRUCTION
STRUCTURE B-55-226

COMPLETE CONSTRUCTION
STRUCTURES C-55-35, C-55-36

SHIFT STH 35 TRAFFIC
TO BYPASS LANES

CONSTRUCT STH 35/MAIN ST
ROUNDABOUT FOR THROUGH TRAFFIC

N

WORK ZONE

DIRECTION
OF TRAFFIC

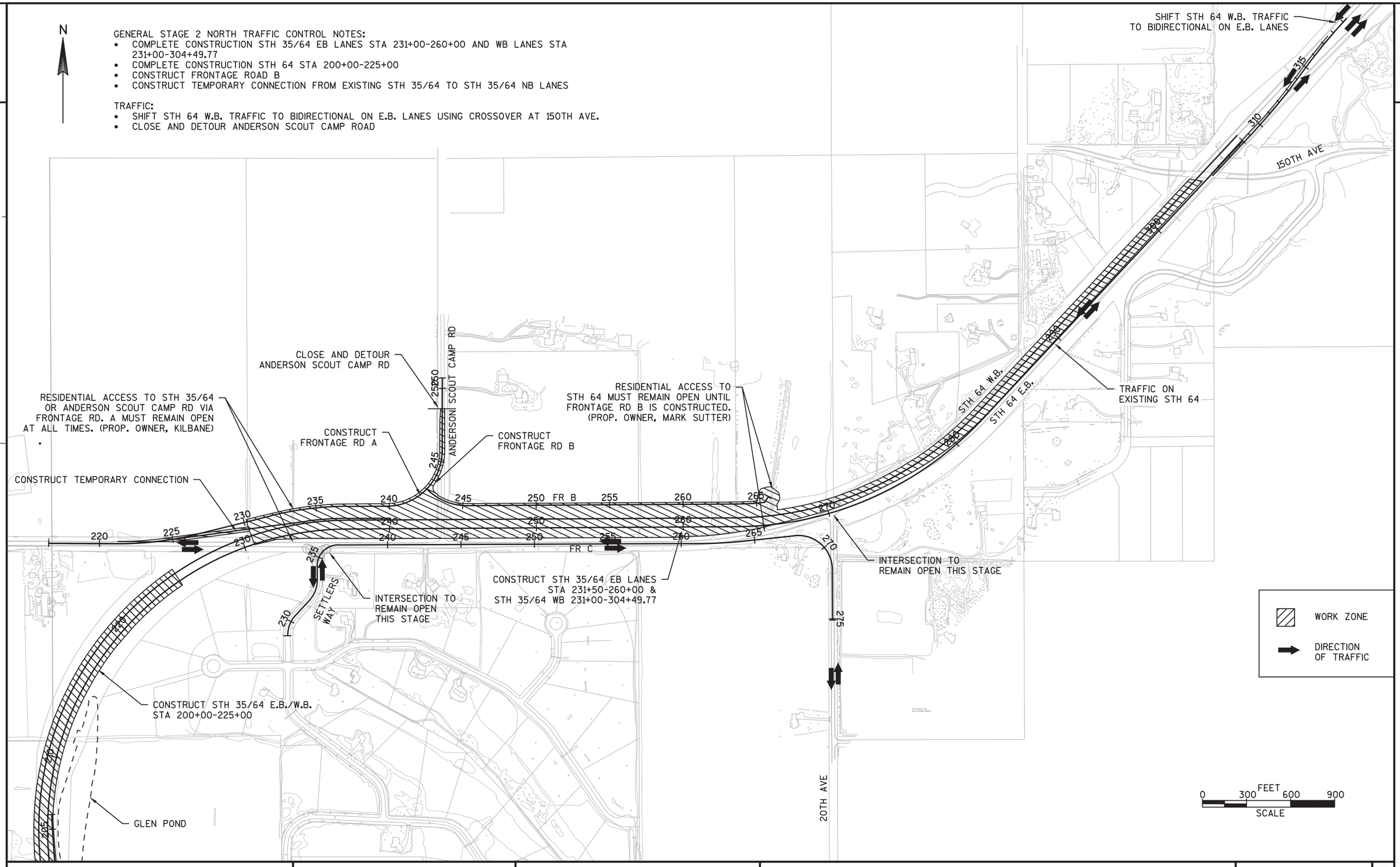
0 300 600 900 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC OVERVIEW: STAGE 2 SOUTH	SHEET 265	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025005_TC_OV2_72.DWG
81100272_PLANSHTS - 025005_TC_OV2_72 - STAGE 2 SOUTH
PLOT DATE : 7/21/2014 1:24 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : PLOT SCALE : 1 IN:600 FT
WISDOT/CADDS SHEET 44

GENERAL STAGE 2 NORTH TRAFFIC CONTROL NOTES:
- COMPLETE CONSTRUCTION STH 35/64 EB LANES STA 231+00-260+00 AND WB LANES STA 231+00-304+49.77
- COMPLETE CONSTRUCTION STH 64 STA 200+00-225+00
- CONSTRUCT FRONTAGE ROAD B
- CONSTRUCT TEMPORARY CONNECTION FROM EXISTING STH 35/64 TO STH 35/64 NB LANES

TRAFFIC:
- SHIFT STH 64 W.B. TRAFFIC TO BIDIRECTIONAL ON E.B. LANES USING CROSSOVER AT 150TH AVE.
- CLOSE AND DETOUR ANDERSON SCOUT CAMP ROAD



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC OVERVIEW: STAGE 2 NORTH	SHEET 266	E

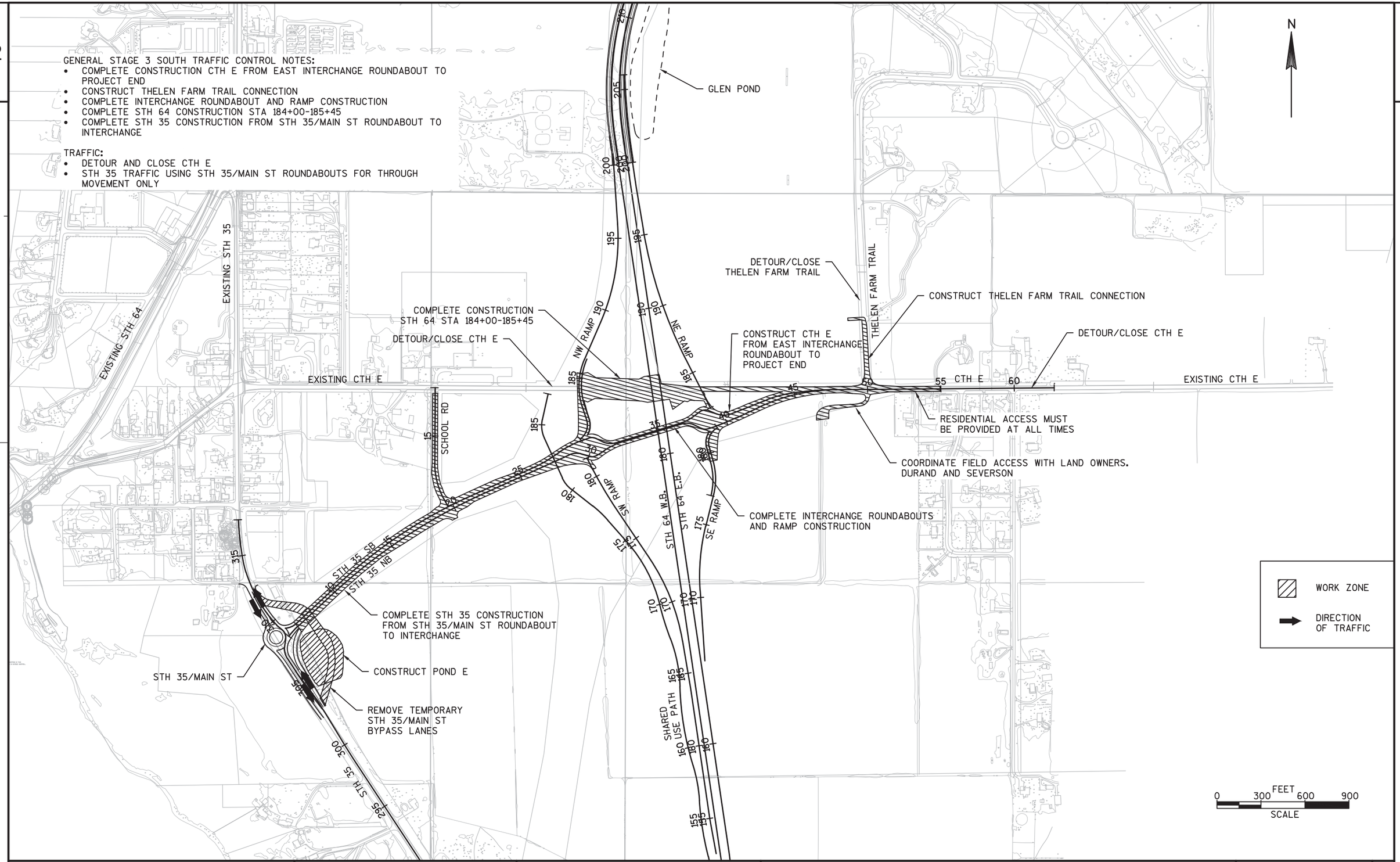
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025005_TC_OV2_72.DWG
81100272_PLANSHTS - 025005_TC_OV2_72 - STAGE 2 NORTH
PLOT DATE : 7/21/2014 1:24 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : PLOT SCALE : 1 IN:600 FT
WISDOT/CADDS SHEET 44

GENERAL STAGE 3 SOUTH TRAFFIC CONTROL NOTES:

- COMPLETE CONSTRUCTION CTH E FROM EAST INTERCHANGE ROUNDABOUT TO PROJECT END
- CONSTRUCT THELEN FARM TRAIL CONNECTION
- COMPLETE INTERCHANGE ROUNDABOUT AND RAMP CONSTRUCTION
- COMPLETE STH 64 CONSTRUCTION STA 184+00-185+45
- COMPLETE STH 35 CONSTRUCTION FROM STH 35/MAIN ST ROUNDABOUT TO INTERCHANGE

TRAFFIC:

- DETOUR AND CLOSE CTH E
- STH 35 TRAFFIC USING STH 35/MAIN ST ROUNDABOUTS FOR THROUGH MOVEMENT ONLY



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC OVERVIEW: STAGE 3 SOUTH	SHEET 267	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025015_TC_OV3_72.DWG
81100272_PLANSHTS - 025015_TC_OV3_72 - STAGE 3 SOUTH

PLOT DATE : 7/21/2014 1:29 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : PLOT SCALE : 1 IN:600 FT

WISDOT/CADDS SHEET 44

GENERAL STAGE 3 NORTH TRAFFIC CONTROL NOTES:
- CONSTRUCT STH 35/64 GAP STA 225+00-231+50
- CONSTRUCT FRONTAGE ROAD C
- REMOVE TEMPORARY PRECAST CONCRETE BARRIER FROM EXISTING STH 64
- CONSTRUCT STH 64 E.B. STA 260+00-304+95.11

TRAFFIC:
- MOVE STH 64 TRAFFIC TO BIDIRECTIONAL ON NEW STH35/64 W.B. LANES
- STH 64 TRAFFIC USING TEMPORARY CONNECTION BUILT IN STAGE 2

N

150TH AVE

ANDERSON SCOUT CAMP RD

MOVE STH 64 TRAFFIC TO BIDIRECTIONAL ON STH 35/64 WB LANES

FRONTAGE ROAD A OPEN STA 231+00 - 250+00

ACCESS TO DRIVEWAY OPEN AT ALL TIMES

NO ACCESS TO ANDERSON SCOUT CAMP RD FROM STH 35/64

CONSTRUCT STH 35/64 EB STA 260+00-304+95.11

REMOVE TEMPORARY PRECAST CONCRETE BARRIER FROM EXISTING STH 35/64 EB/WB LANES

FR A

FR B

FR C

CONSTRUCT FRONTAGE RD C

RESIDENTIAL ACCESS MUST BE PROVIDED AT ALL TIMES. NEWMAN AND CRAWFORD

SETTLERS WAY

SETTLERS WAY INTERSECTION WITH STH 35/64 TO CLOSE THIS STAGE

CONSTRUCT FRONTAGE RD C

RESIDENTIAL ACCESS MUST BE PROVIDED AT ALL TIMES. DALTON AND LEVERTY AND BOUMEESTER

20TH AVE INTERSECTION WITH STH 35/64 TO CLOSE THIS STAGE

STH 64 W.B.

STH 64 E.B.

CONSTRUCT STH 64 GAP STA 225+00-231+50

RESIDENTIAL ACCESS MUST BE PROVIDED AT ALL TIMES. ANDERSON

GLEN POND

20TH AVE

WORK ZONE

DIRECTION OF TRAFFIC

0 300 600 900 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC OVERVIEW: STAGE 3 NORTH	SHEET 268	E

2

2

GENERAL TRAFFIC CONTROL NOTES:

- ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.
- DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT BACKGROUND IS ORANGE.
- ALL SIGNS OR PAVEMENT MARKINGS, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.

WORK ZONE
DELINEATOR FLEXIBLE/TUBULAR MARKER
DIRECTION OF TRAFFIC
POST MOUNTED SIGN
TRAFFIC CONTROL BARRICADE
TRAFFIC CONTROL BARRICADE WITH SIGN
TEMPORARY POST MOUNTED SIGN
TC FLAG PERSON
TC DRUM
TEMPORARY DELINEATOR
TC FLASHING ARROW BOARD
TC DRUM WITH LIGHT
TC FLAGS

N

FRONTAGE ROAD A

245

240

FRONTAGE ROAD B

245 250 255

STH 35/64 WB

245 250 255

STH 35/64 EB

245 250 255

EXISTING STH 35/64

FINAL LOCATION OF PORTABLE CHANGEABLE MESSAGE BOARD TO BE DETERMINED BY ENGINEER AND CONTRACTOR BASED ON WORK OPERATIONS AND WORK LOCATION

MB

BE PREPARED TO STOP
W3-4
48"X48"

ONE LANE ROAD AHEAD
W20-4-A

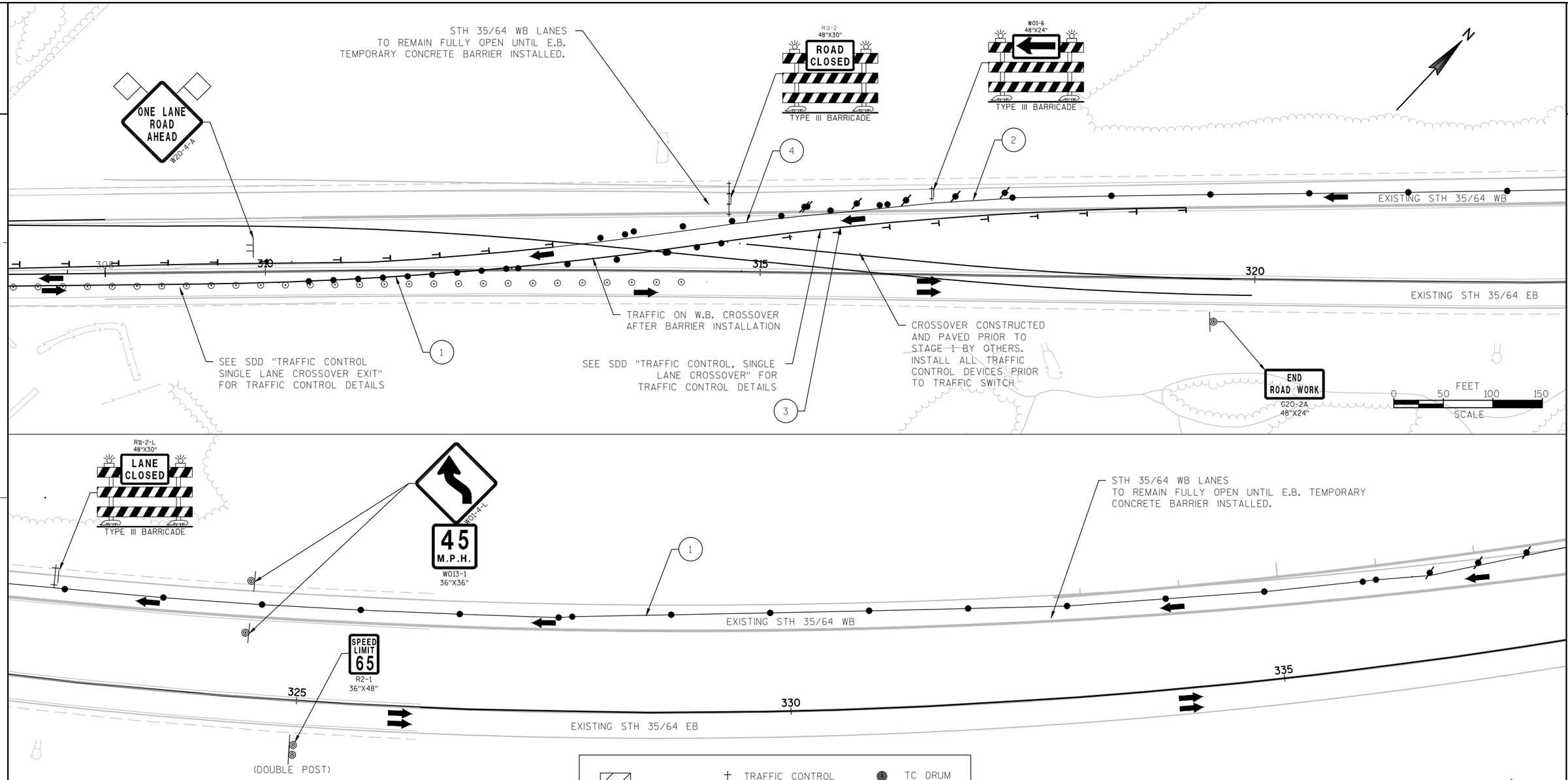
FINAL LOCATIONS OF FLAGGERS AND FLAGGER ADVANCE SIGNING TO BE DETERMINED BY ENGINEER AND CONTRACTOR BASED ON WORK OPERATIONS AND WORK LOCATION

W20-7A

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025030_TC_S1_72.DWG PLOT DATE : 9/25/2014 9:30 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : ********** WISDOT/CADDS SHEET 42



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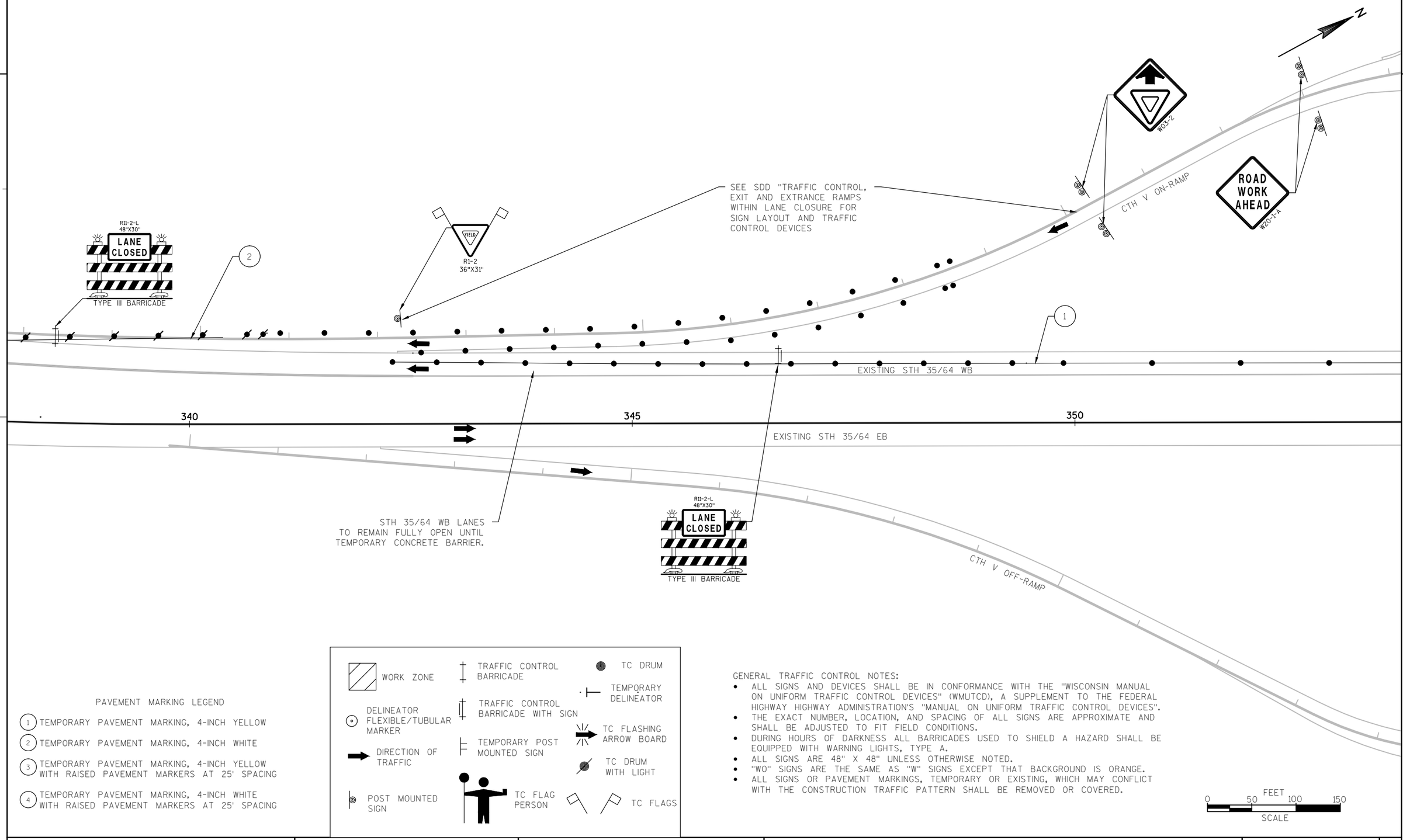
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS STH 35/64	SHEET 270	E



PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
2. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
3. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW WITH RAISED PAVEMENT MARKERS AT 25' SPACING
4. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE WITH RAISED PAVEMENT MARKERS AT 25' SPACING

- WORK ZONE
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- POST MOUNTED SIGN
- TRAFFIC CONTROL BARRICADE
- TRAFFIC CONTROL BARRICADE WITH SIGN
- TEMPORARY POST MOUNTED SIGN
- TC FLAG PERSON
- TC DRUM
- TEMPORARY DELINEATOR
- TC FLASHING ARROW BOARD
- TC DRUM WITH LIGHT
- TC FLAGS

GENERAL TRAFFIC CONTROL NOTES:

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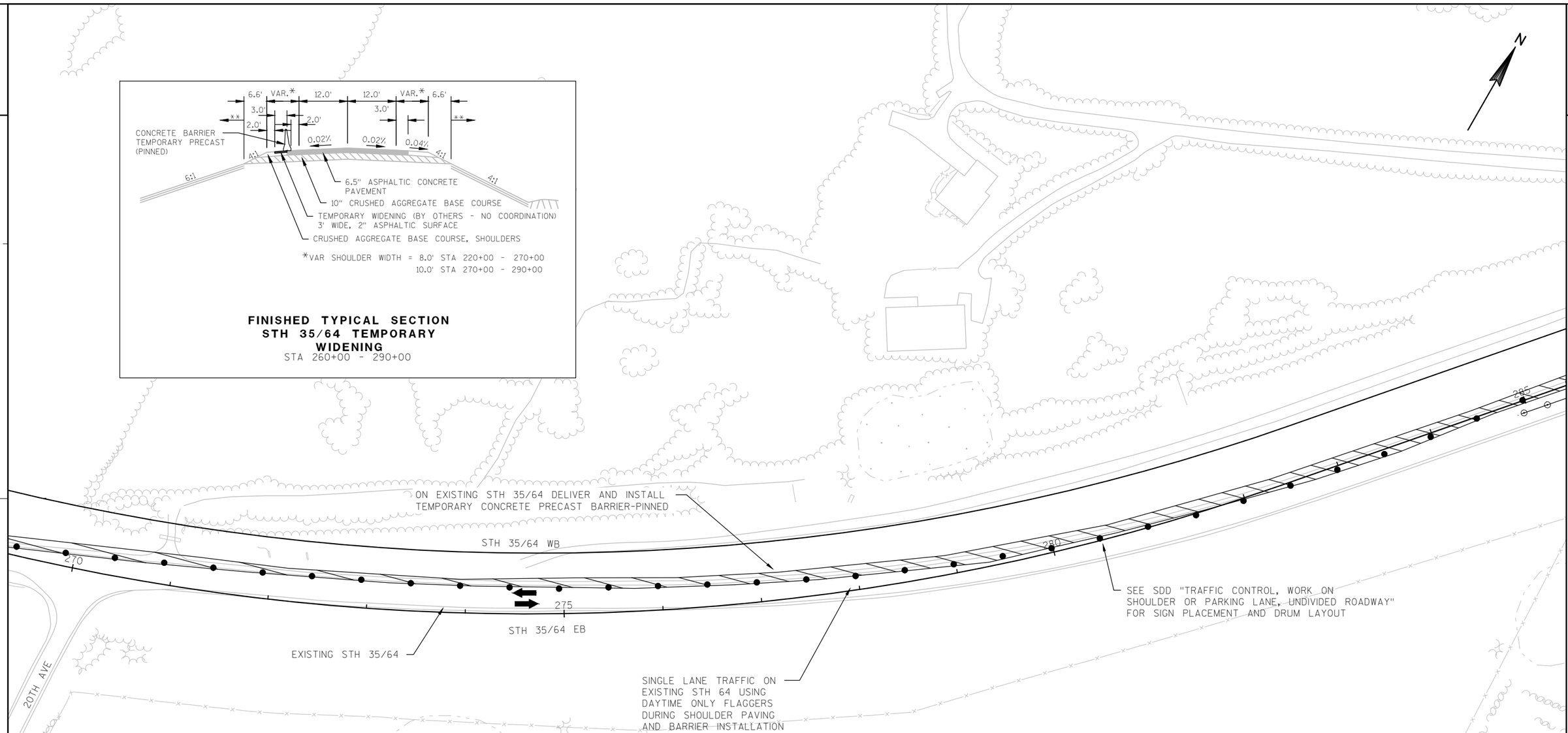
0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS STH 35/64	SHEET 271	E

FINISHED TYPICAL SECTION
STH 35/64 TEMPORARY WIDENING
STA 260+00 - 290+00



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PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS, STH 35/64	SHEET 272	E

2

N

N.E. RAMP

185

EXISTING CTH E
TO REMAIN OPEN

IF ENCROACHING ON EXISTING SHOULDER,
INSTALL DRUMS AND SHOULDER WORK SIGNS
ACCORDNG TO "SDD TRAFFIC CONTROL, WORK
ON SHOULDER OR PARKING LANE, UNDIVIDED
HIGHWAY"

45

CTH E

40

BEGIN CONSTRUCTION
STH 35/CTH E
STA 19+00 - 40+00

35

BEGIN CONSTRUCTION
STRUCTURE B-55-0226

180

STH 64 W.B.

STH 64 E.B.

S.E. RAMP

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WORK ZONE

TRAFFIC CONTROL BARRICADE

TC DRUM

TEMPORARY DELINEATOR

DELINEATOR FLEXIBLE/TUBULAR MARKER

TRAFFIC CONTROL BARRICADE WITH SIGN

TC FLASHING ARROW BOARD

DIRECTION OF TRAFFIC

TEMPORARY POST MOUNTED SIGN

TC DRUM WITH LIGHT

POST MOUNTED SIGN

TC FLAG PERSON

TC FLAGS

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS CTH E	SHEET 273	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025030_TC_S1_72.DWG PLOT DATE : 9/25/2014 9:31 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:100 XREF

WISDOT/CADDS SHEET 42

IF ENCROACHING ON EXISTING SHOULDER, INSTALL DRUMS AND SHOULDER WORK SIGNS ACCORDNG TO "SDD TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY"

EXISTING CTH E

NW RAMP

N

IF ENCROACHING ON EXISTING SHOULDER, INSTALL DRUMS AND SHOULDER WORK SIGNS ACCORDNG TO "SDD TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY"

R11-2
48"X30"
ROAD CLOSED
TYPE III BARRICADE

BEGIN CONSTRUCTION SCHOOL ROAD

SCHOOL ROAD

WORK ZONE
TRAFFIC CONTROL BARRICADE
TC DRUM
TEMPORARY DELINEATOR
DELINEATOR FLEXIBLE/TUBULAR MARKER
TRAFFIC CONTROL BARRICADE WITH SIGN
TC FLASHING ARROW BOARD
DIRECTION OF TRAFFIC
TEMPORARY POST MOUNTED SIGN
TC DRUM WITH LIGHT
POST MOUNTED SIGN
TC FLAG PERSON
TC FLAGS

BEGIN CONSTRUCTION STRUCTURE C-55-0035

BEGIN CONSTRUCTION STH 35/CTH E STA 19+00 - 40+00

STH 35 SB

STH 35 NB

BEGIN CONSTRUCTION STRUCTURE C-55-0036

SW RAMP

SHARED USE PATH

GENERAL TRAFFIC CONTROL NOTES:

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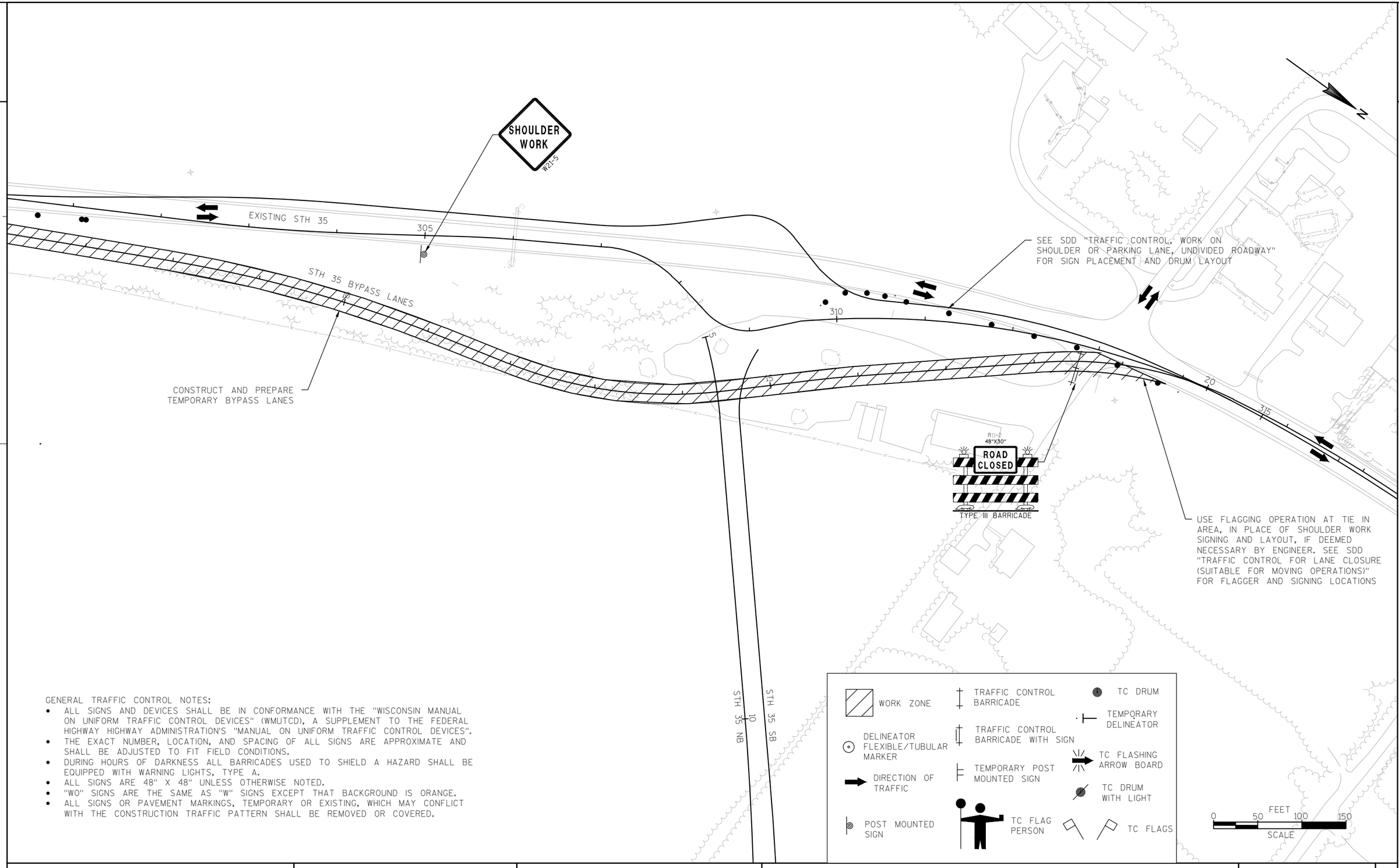
0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS CTH E	SHEET 274	E



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PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS STH 35	SHEET 275	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025030_TC_S1_72.DWG PLOT DATE : 9/25/2014 9:31 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : _____ PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

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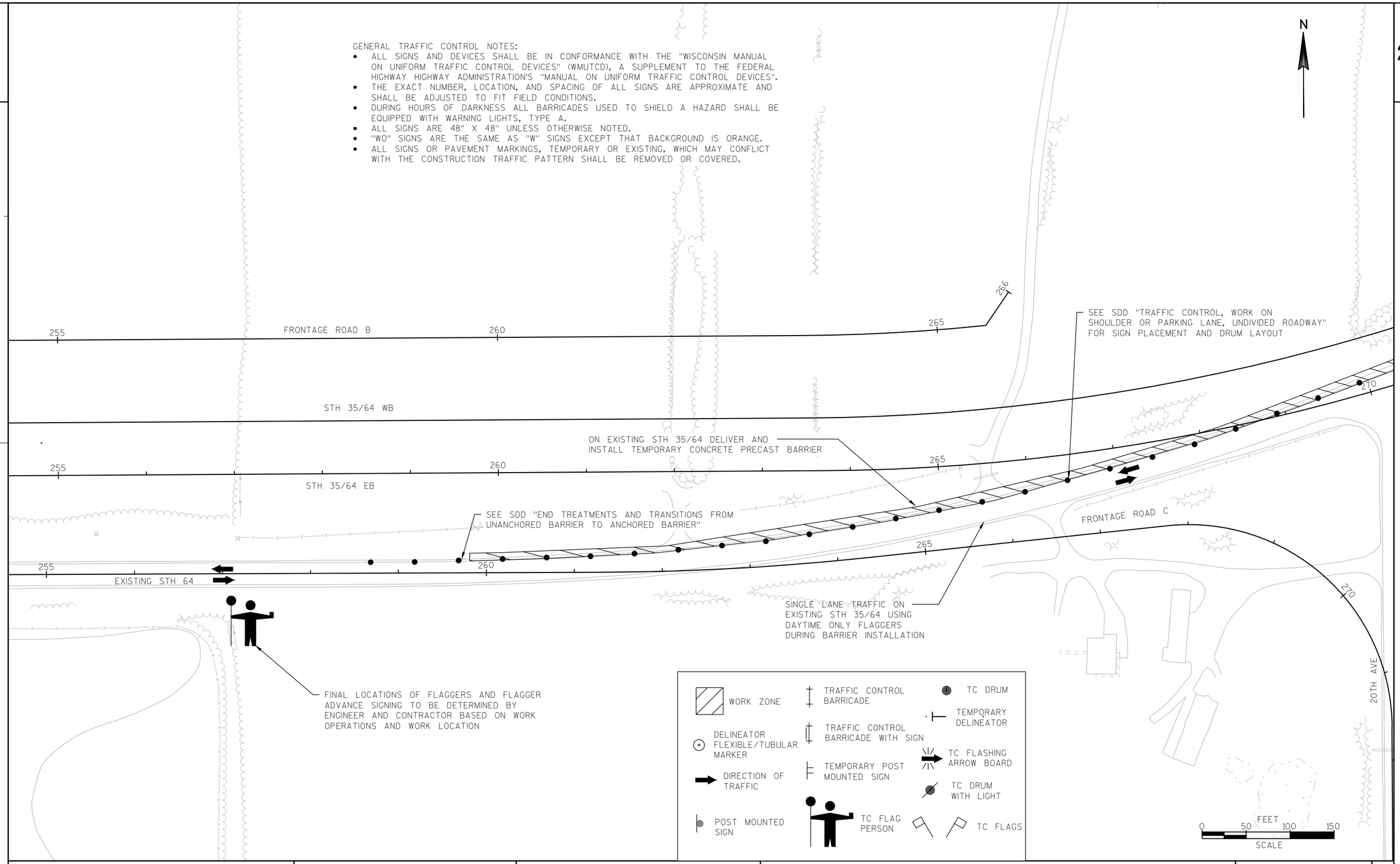

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS	SHEET 276	E

STA 285+00 - 295+00:
INSTALL TEMP CONCRETE BARRIER AND
FLEXIBLE TUBE DELINEATORS AFTER WB TRAFFIC
HAS SHIFTED TO BI-DIRECTIONAL ON EB LANE

STH 35/64 WB LANES TO REMAIN
OPEN UNTIL EXISTING STH 35/64 EB
LANE AND WB LANE CONNECTION
OBSTRUCTED BY TEMPORARY
CONCRETE BARRIER INSTALLATION.
THEN SHIFT STH 35/64 WB TRAFFIC
TO CROSSOVER LANE.

SHOULDER WORK SIGN
PLACED 500' IN ADVANCE
OF DRUMS

SHOULDER WORK
W21-5

SEE SDD "TRAFFIC CONTROL, WORK ON
SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"
FOR SIGN PLACEMENT AND DRUM LAYOUT

STH 35/64 WB

285 290 295 300

SPEED LIMIT 55
R2-1
24"X30"

EXISTING STH 35/64 EB

1
(DOUBLE)
STA 285+00-315+00

ON EXISTING STH 35/64
DELIVER AND INSTALL TEMPORARY
CONCRETE PRECAST BARRIER

STA 295+00-315+00.
STH 35/64 EB TRAFFIC
RESTRICTED TO SINGLE LANE
BEGINNING OF STAGE 1. INSTALL
FLEXIBLE TUBE DELINEATORS
BEGINNING OF STAGE 1.

R11-2-L
48"X30"
LANE CLOSED
TYPE III BARRICADE

FEET
0 50 100 150
SCALE

FINAL LOCATIONS OF FLAGGERS AND FLAGGER
ADVANCE SIGNING TO BE DETERMINED BY
ENGINEER AND CONTRACTOR BASED ON WORK
OPERATIONS AND WORK LOCATION

W20-7A

150TH AVE

BE PREPARED TO STOP
W3-4
48"X48"

ONE LANE ROAD AHEAD
W20-4-A

FINAL LOCATION OF PORTABLE
CHANGEABLE MESSAGE BOARD TO
BE DETERMINED BY ENGINEER AND
CONTRACTOR BASED ON WORK
OPERATIONS AND WORK LOCATION

MB

EXISTING STH 35/64 WB

300 305 310

STH 35/64 EB

INSTALL FLEXIBLE TUBE
DELINEATORS
STA 295+00-315+00, STH
35/64 EB CENTER LINE
BEGINNING OF STAGE 1.

STH 35/64 EB INSTALL TEMPORARY
PRECAST BARRIER-PINNED.

1
(DOUBLE)
STA 285+00-315+00

W06-1

SEE SDD "END TREATMENTS AND
TRANSITIONS FROM UNANCHORED
BARRIER TO ANCHORED BARRIER"

W06-3
DO NOT PASS
R4-1
24"X30"

EXISTING STH 35/64 EB

SEE SDD "TRAFFIC CONTROL, SINGLE
LANE CROSSOVER" FOR
TRAFFIC CONTROL DETAILS

WORK ZONE
TRAFFIC CONTROL BARRICADE
TC DRUM
TEMPORARY DELINEATOR
DELINEATOR FLEXIBLE/TUBULAR MARKER
TRAFFIC CONTROL BARRICADE WITH SIGN
TC FLASHING ARROW BOARD
DIRECTION OF TRAFFIC
TEMPORARY POST MOUNTED SIGN
TC DRUM WITH LIGHT
POST MOUNTED SIGN
TC FLAG PERSON
TC FLAGS

GENERAL TRAFFIC CONTROL NOTES:

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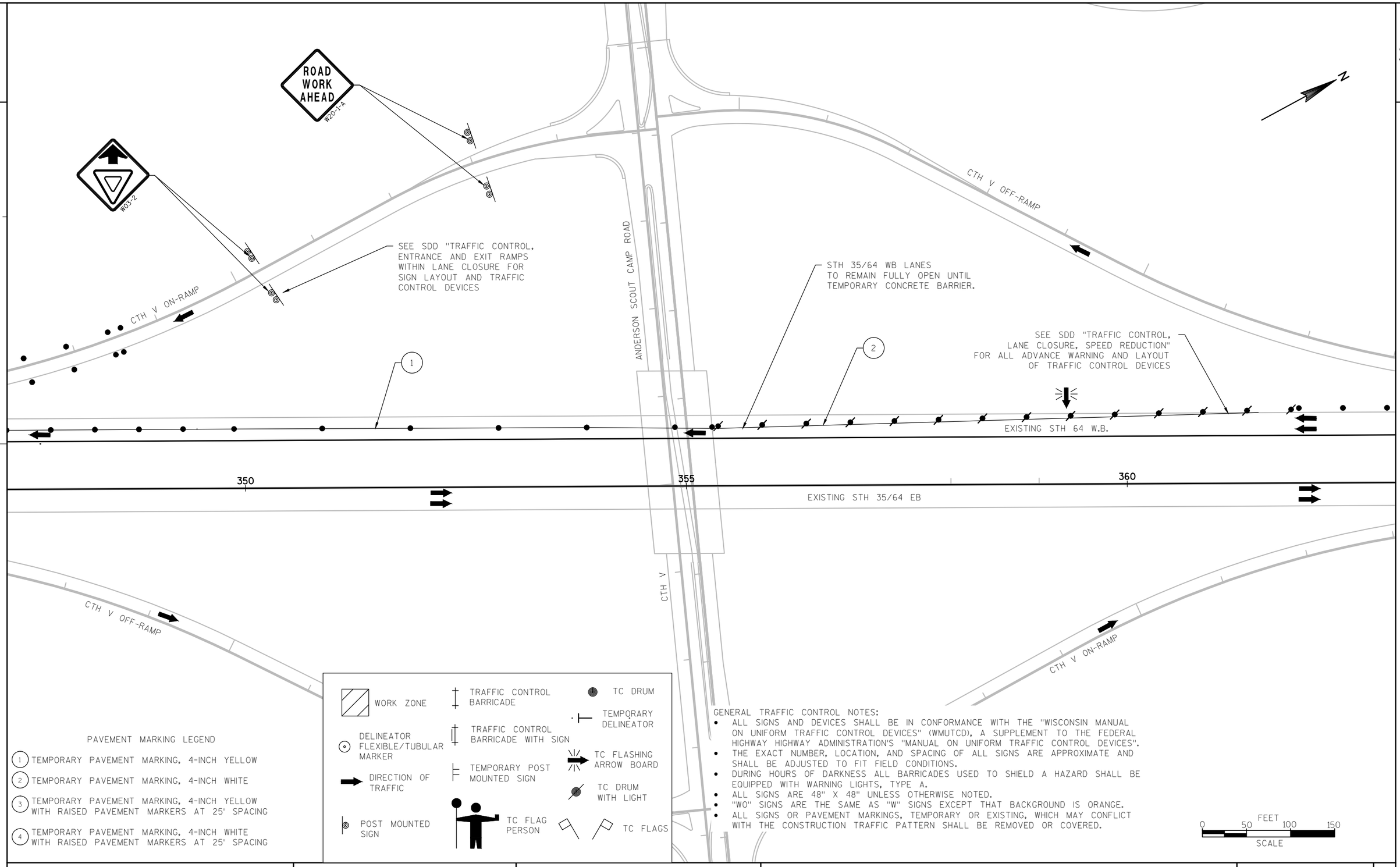
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
2. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
3. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW WITH RAISED PAVEMENT MARKERS AT 25' SPACING
4. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE WITH RAISED PAVEMENT MARKERS AT 25' SPACING

FEET
0 50 100 150
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS STH 35/64	SHEET 277	E

2



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WORK ZONE
TRAFFIC CONTROL BARRICADE
TC DRUM
TEMPORARY DELINEATOR
DELINEATOR FLEXIBLE/TUBULAR MARKER
TRAFFIC CONTROL BARRICADE WITH SIGN
TC FLASHING ARROW BOARD
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0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS STH 35/64	SHEET 278	E

2

2

SEE SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION" OR REFER TO ADVANCED WARNING PLAN SHEETS FOR ADDITIONAL SIGNING PAST THE END OF TRAFFIC CONTROL DRUMS

END EXISTING CENTERLINE PAVEMENT MARKINGS STA 364+00

FLASHING ARROW STA 367+50

EXISTING STH 35/64 WB

365

370

375

EXISTING STH 35/64 EB

CTH V ON-RAMP

GENERAL TRAFFIC CONTROL NOTES:

- ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
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WORK ZONE

TRAFFIC CONTROL BARRICADE

TC DRUM

TEMPORARY DELINEATOR

DELINEATOR FLEXIBLE/TUBULAR MARKER

TRAFFIC CONTROL BARRICADE WITH SIGN

TC FLASHING ARROW BOARD

DIRECTION OF TRAFFIC

TEMPORARY POST MOUNTED SIGN

TC DRUM WITH LIGHT

POST MOUNTED SIGN

TC FLAG PERSON

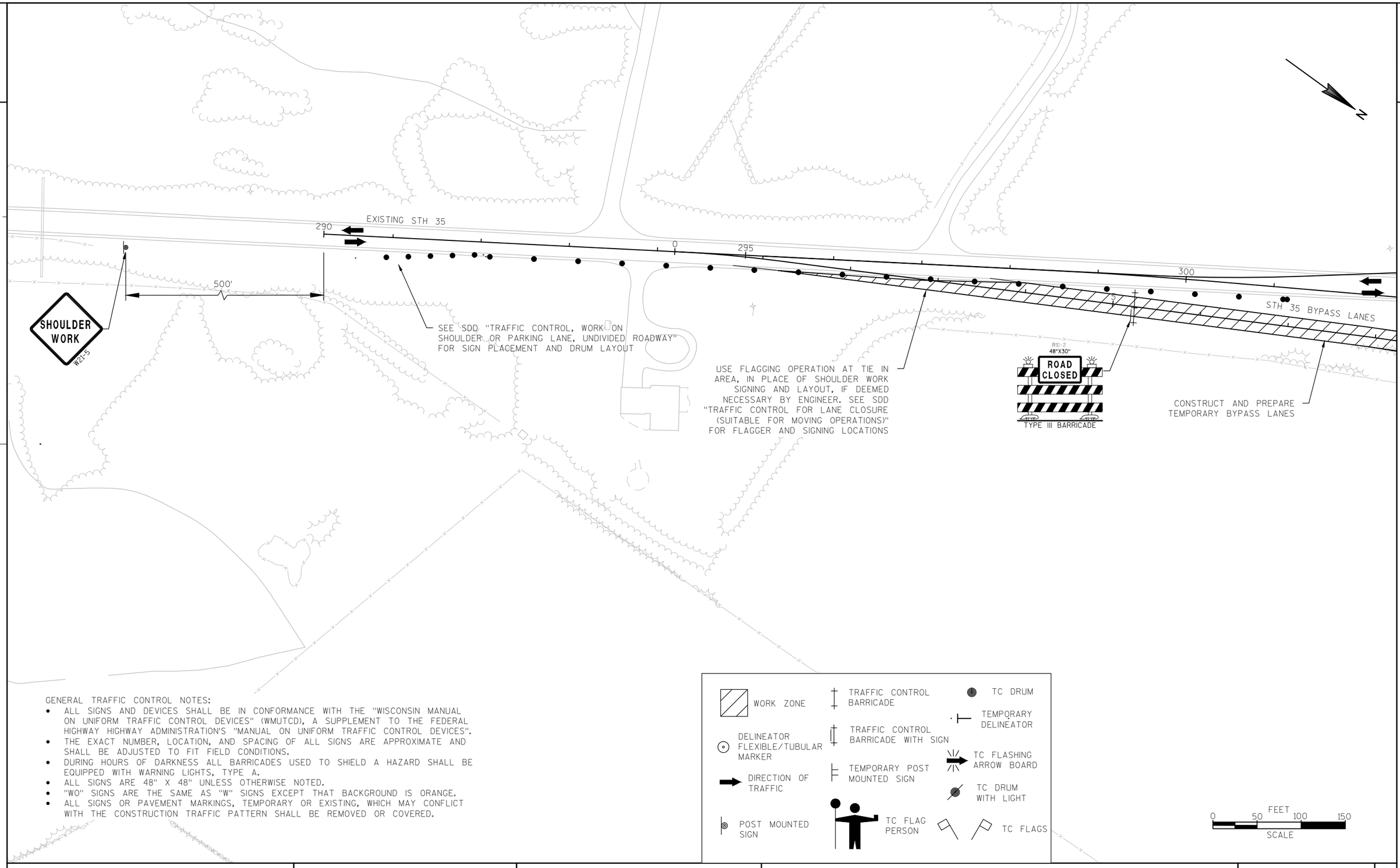
TC FLAGS

0 50 100 150 FEET

SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS STH 35/64	SHEET 279	E

2



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PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 1 DETAILS STH 35	SHEET 280	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025030_TC_S1_72.DWG PLOT DATE : 9/25/2014 9:32 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

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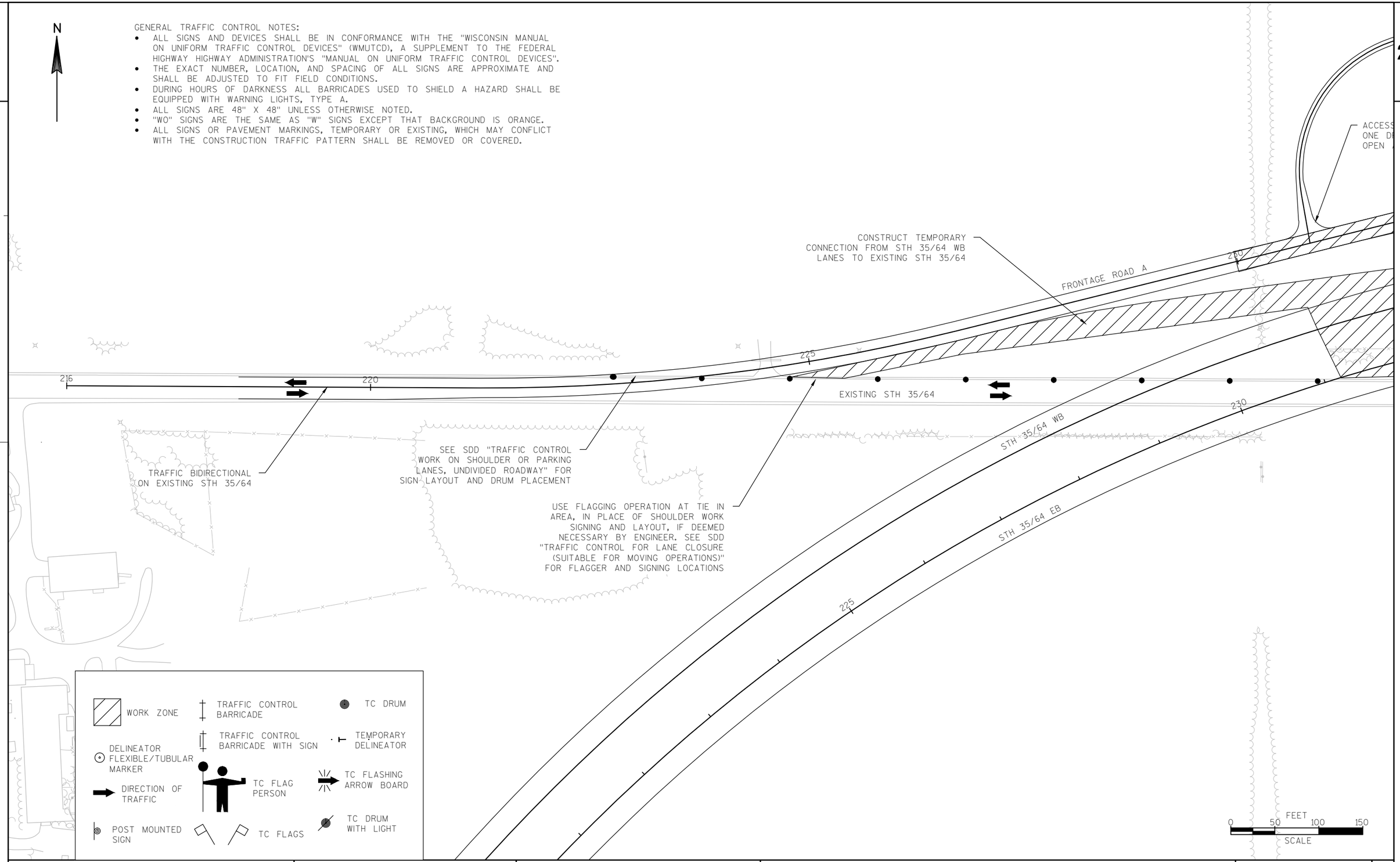
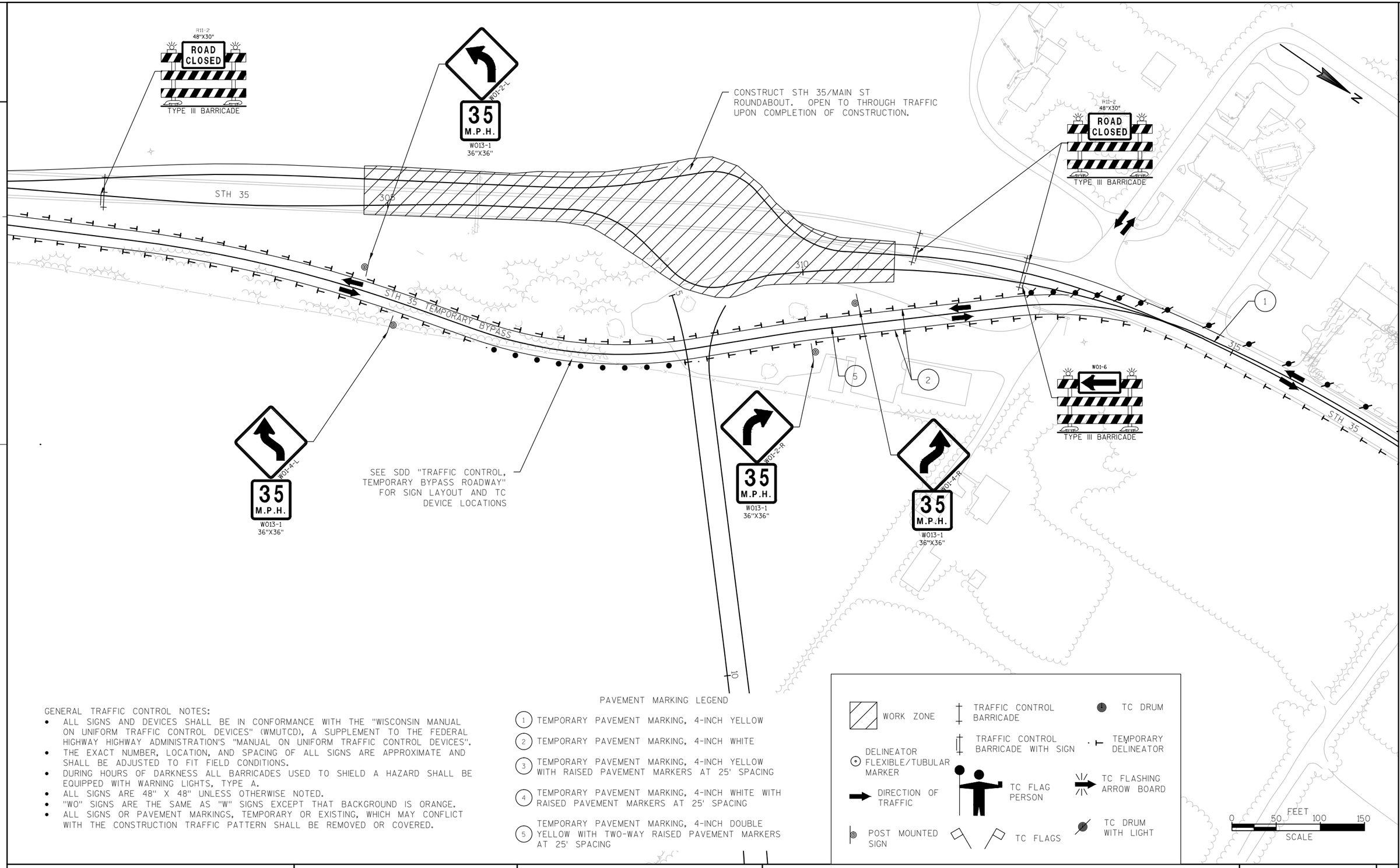


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS STH 35/64	SHEET 281 E



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PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
2. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
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5. TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW WITH TWO-WAY RAISED PAVEMENT MARKERS AT 25' SPACING

- WORK ZONE
- TRAFFIC CONTROL BARRICADE
- TC DRUM
- TRAFFIC CONTROL BARRICADE WITH SIGN
- TEMPORARY DELINEATOR
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- TC FLAG PERSON
- TC FLASHING ARROW BOARD
- POST MOUNTED SIGN
- TC FLAGS
- TC DRUM WITH LIGHT

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS STH 35	SHEET 282	E

2

2

N

CONSTRUCT TEMPORARY CONNECTION
FROM STH 35/64 WB LANES TO
FRONTAGE ROAD B. CONSTRUCT BYPASS
LANE FOR STH 35/64 EB TRAFFIC.

BEGIN CONSTRUCTION
FRONTAGE ROAD B

FRONTAGE ROAD B

245 250 255 260

STH 35/64 WB

245 250 255 260

STH 35/64 EB

END CONSTRUCTION
STH 35/64 EB
LANES, STA 260+00

EXISTING STH 35/64

245 250 255 260

WORK ZONE

TRAFFIC CONTROL BARRICADE

TC DRUM

TRAFFIC CONTROL BARRICADE WITH SIGN

TEMPORARY DELINEATOR

DELINEATOR FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

TC FLAG PERSON

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POST MOUNTED SIGN

TC FLAGS

TC DRUM WITH LIGHT

0 50 100 150
FEET
SCALE

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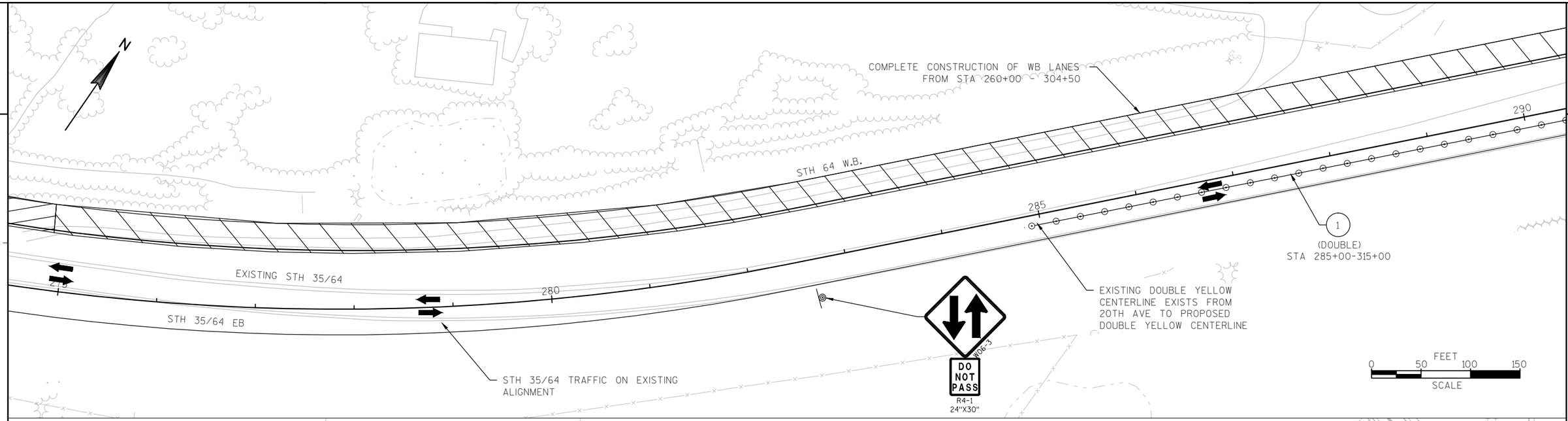
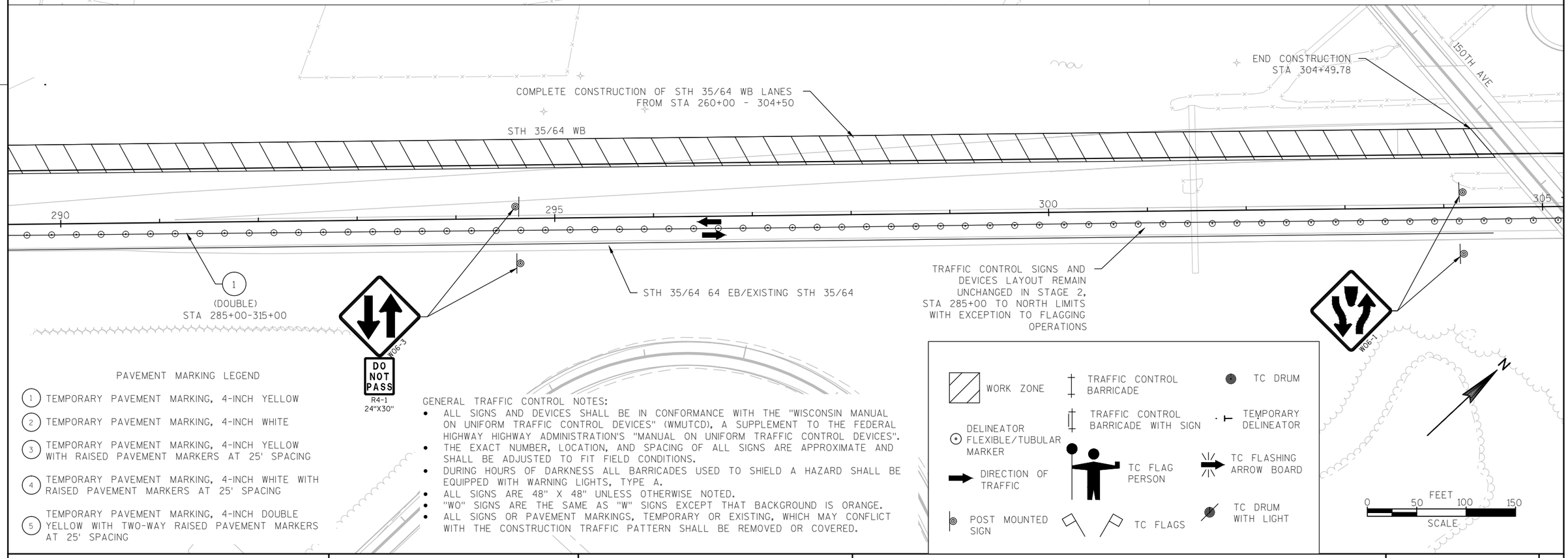
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS STH 35/64	SHEET 283	E





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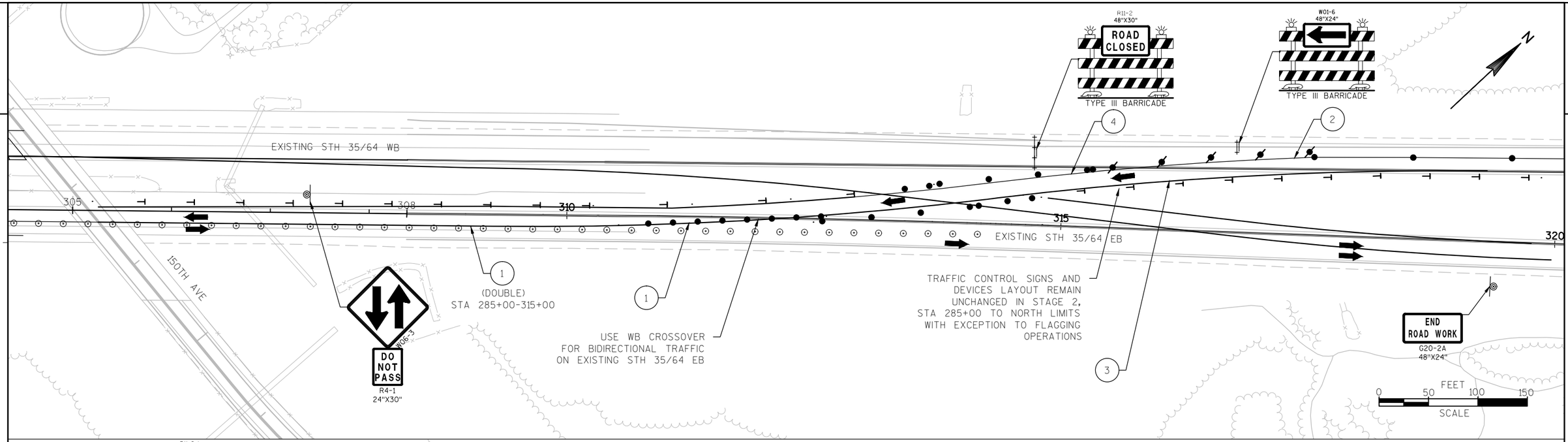
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS STH 35/64	SHEET 284	E



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TC DRUM
TRAFFIC CONTROL BARRICADE WITH SIGN
TEMPORARY DELINEATOR
DELINEATOR FLEXIBLE/TUBULAR MARKER
DIRECTION OF TRAFFIC
TC FLAG PERSON
TC FLASHING ARROW BOARD
POST MOUNTED SIGN
TC FLAGS
TC DRUM WITH LIGHT

PAVEMENT MARKING LEGEND

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FEET
0 50 100 150
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS STH 35/64	SHEET 285	E

2

2

NE RAMP

SHOULDER WORK
W21-5

SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANES, UNDIVIDED HIGHWAY" FOR SIGN LAYOUT AND DRUM PLACEMENT WHEN ENCROACHING ONTO SHOULDER WITH WORK OPERATIONS.

N

185

EXISTING CTH E

45

CTH E

40

35

COMPLETE CONSTRUCTION
STRUCTURE B-55-0226

180

STH 64 W.B.

STH 64 E.B.

SE RAMP

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DELINEATOR FLEXIBLE/TUBULAR MARKER
TC FLAG PERSON
TC FLASHING ARROW BOARD
DIRECTION OF TRAFFIC
TC DRUM WITH LIGHT
POST MOUNTED SIGN
TC FLAGS

0 50 100 150
FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS CTH E	SHEET 286	E

2

EXISTING CTH E

SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANES, UNDIVIDED HIGHWAY" FOR SIGN LAYOUT AND DRUM PLACEMENT WHEN ENCROACHING ONTO SHOULDER WITH WORK OPERATIONS.

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N

0 50 100 150 FEET

SCALE

COMPLETE CONSTRUCTION SCHOOL ROAD

SCHOOL ROAD

COMPLETE STRUCTURE C-55-0035

COMPLETE CONSTRUCTION OF STH 35/CTH E STA 19+00 - 40+00

NW RAMP

30

25

20

STH 35 SB

STH 35 NB

SHARED USE PATH

SW RAMP

COMPLETE STRUCTURE C-55-0036

WORK ZONE

TRAFFIC CONTROL BARRICADE

TC DRUM

TRAFFIC CONTROL BARRICADE WITH SIGN

TEMPORARY DELINEATOR

DELINEATOR FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

TC FLAG PERSON

TC FLASHING ARROW BOARD

POST MOUNTED SIGN

TC FLAGS

TC DRUM WITH LIGHT

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS CTH E	SHEET 287	E

PETERSON RD

2

1

315

317

R11-2
48"X30"
ROAD CLOSED
TYPE III BARRICADE

W01-6
TYPE III BARRICADE

SEE SDD "TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY" FOR SIGN LAYOUT AND TC DEVICE LOCATIONS

W01-2L

35
M.P.H.
W013-1
36"X36"

CHURCH ST

STH 35

CTH E

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2

N

0 50 100 150
FEET
SCALE

WORK ZONE
TRAFFIC CONTROL BARRICADE
TC DRUM
TRAFFIC CONTROL BARRICADE WITH SIGN
TEMPORARY DELINEATOR
DELINEATOR FLEXIBLE/TUBULAR MARKER
DIRECTION OF TRAFFIC
TC FLAG PERSON
TC FLASHING ARROW BOARD
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NO PASSING ZONE
W14-3
48"X36"

CTH E

STH 35

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS STH 35	SHEET 288	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025035_TC_S2_72.DWG PLOT DATE : 9/26/2014 12:34 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:100 XREF
WISDOT/CADDS SHEET 42

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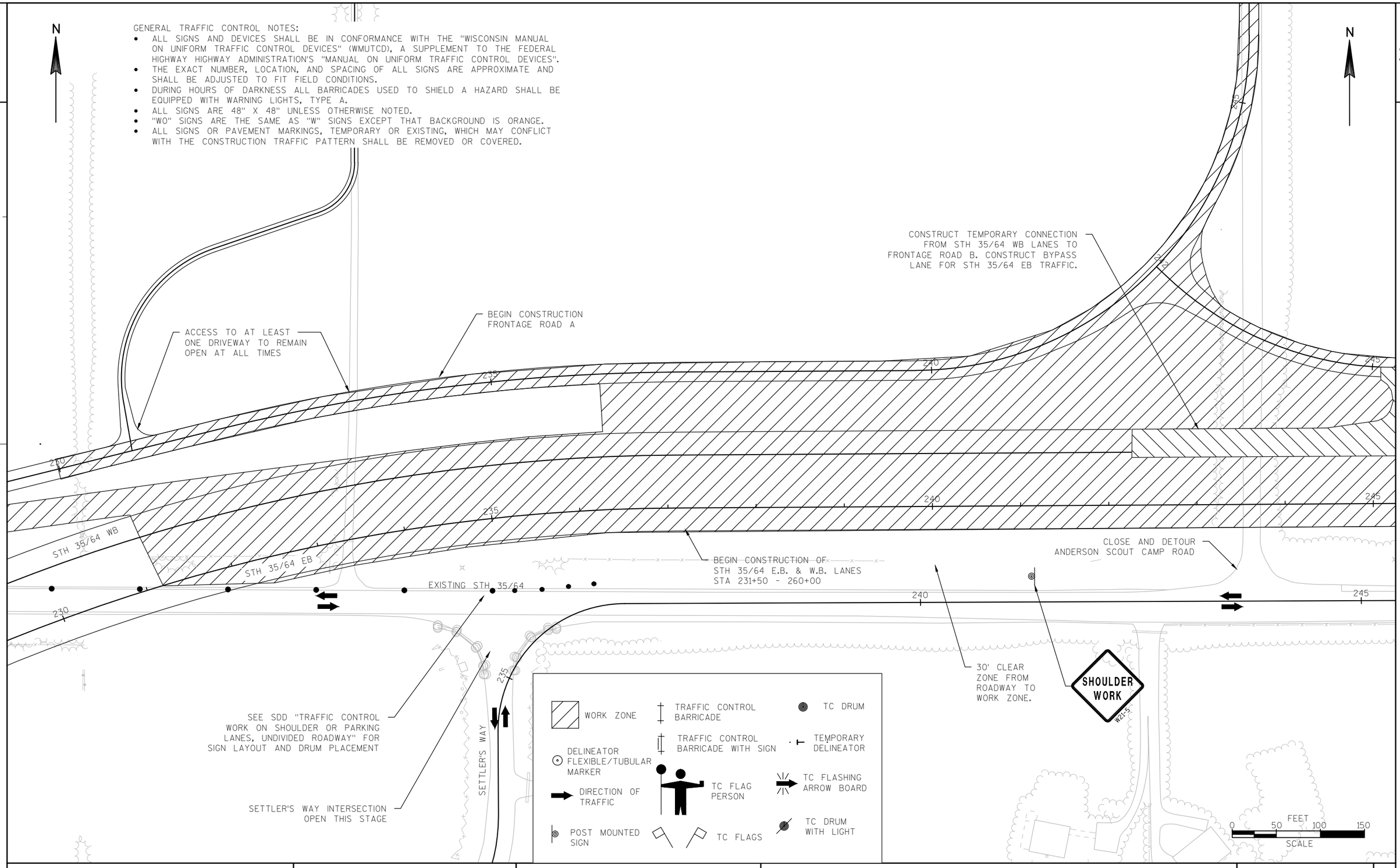

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS STH 35/64	SHEET 289 E

2

2

N

FRONTAGE ROAD B

BEGIN CONSTRUCTION
FRONTAGE ROAD B

STH 35/64 WB

COMPLETE CONSTRUCTION OF STH 35/64 WB LANES
STA 260+00 - 304+50

STH 35/64 EB

EXISTING STH 64

FRONTAGE ROAD C

20TH AVE

20TH AVE/STH 35/64
INTERSECTION TO REMAIN
OPEN THIS STAGE

260
265
270
275

WORK ZONE

TRAFFIC CONTROL
BARRICADE

TRAFFIC CONTROL
BARRICADE WITH SIGN

TC DRUM

TEMPORARY
DELINEATOR

DELINEATOR
FLEXIBLE/TUBULAR
MARKER

DIRECTION OF
TRAFFIC

TC FLAG
PERSON

TC FLASHING
ARROW BOARD

POST MOUNTED
SIGN

TC FLAGS

TC DRUM
WITH LIGHT

0 50 100 150
FEET
SCALE

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PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS STH 35/64	SHEET 290	E

2

HOULTON ELEMENTARY SCHOOL

N

EXISTING CTH E

ROAD WORK AHEAD
W20-1-A

SHOULDER WORK
W21-5

SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANES, UNDIVIDED HIGHWAY" FOR SIGN LAYOUT AND DRUM PLACEMENT WHEN ENCROACHING ONTO SHOULDER WITH WORK OPERATIONS.

R11-2
48"X30"
ROAD CLOSED
TYPE III BARRICADE

18

COMPLETE CONSTRUCTION
SCHOOL ROAD

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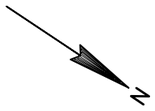
0 50 100 150
FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS CTH E	SHEET 291	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025035_TC_S2_72.DWG PLOT DATE : 9/26/2014 12:34 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : **********

2



W14-3
48"X36"

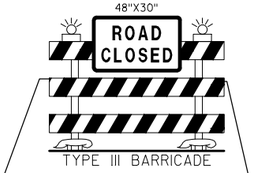
TO HUDSON

290

STH 35

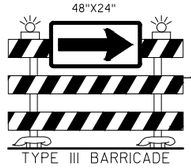
W013-1
36"X36"

SEE SDD "TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY" FOR SIGN LAYOUT AND TC DEVICE LOCATIONS



R11-2
48"X30"

TYPE III BARRICADE



W01-6
48"X24"

TYPE III BARRICADE

300

1

5

2

2

GENERAL TRAFFIC CONTROL NOTES:

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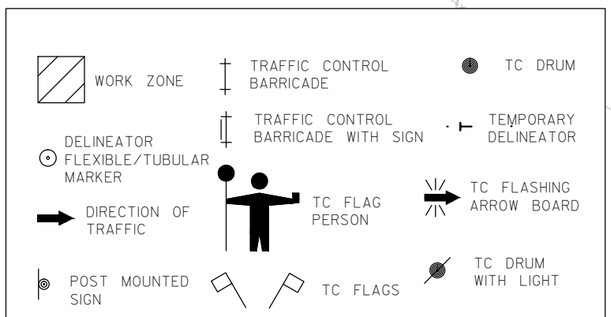
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.
- DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT BACKGROUND IS ORANGE.
- ALL SIGNS OR PAVEMENT MARKINGS, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.



PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
2. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
3. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW WITH RAISED PAVEMENT MARKERS AT 25' SPACING
4. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE WITH RAISED PAVEMENT MARKERS AT 25' SPACING
5. TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW WITH TWO-WAY RAISED PAVEMENT MARKERS AT 25' SPACING

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 2 DETAILS STH 35	SHEET 292	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025035_TC_S2_72.DWG PLOT DATE : 9/26/2014 12:34 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 42

GENERAL TRAFFIC CONTROL NOTES:

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N

SHIFT TRAFFIC ONTO TEMPORARY CONNECTION LANES

R11-2
48"X30"
ROAD CLOSED
TYPE III BARRICADE
PERMANENT

FRONTAGE ROAD A
STA 220+00 - 230+00
NOT CONSTRUCTED

FRONTAGE ROAD A 230

TYPE III BARRICADE
PERMANENT

DOUBLE YELLOW
CENTERLINE EXISTS
TO START OF
BYPASS LANES

200'
216
220
750'
225

EXISTING STH 35/64

6
(DOUBLE)
7

STH 35/64 WB
230
STH 35/64 EB

IF EXISTING STH 35/64
PORTION EXISTS THEN USE
BARRELS. IF NOT, USE
TEMPORARY DELINEATORS.

W06-3
NEXT
2 MILES
W057-51
48"X24"

W01-4-L

NO
PASSING
ZONE
W14-3
48"X36"

R11-2
48"X30"
ROAD CLOSED
TYPE III BARRICADE
PERMANENT

225
225

CONSTRUCT STH 35/64 GAP
STA 226+50 - 231+50

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
2. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
3. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW WITH RAISED PAVEMENT MARKERS AT 25' SPACING
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6. EPOXY PAVEMENT MARKING, 4-INCH YELLOW
7. EPOXY PAVEMENT MARKING, 4-INCH WHITE

- WORK ZONE
- VERTICAL PANEL
- DIRECTION OF TRAFFIC
- POST MOUNTED SIGN, ONE POST
- TRAFFIC CONTROL BARRICADE
- TRAFFIC CONTROL BARRICADE WITH SIGN
- POST MOUNTED SIGN, 2 POSTS
- TC FLAGS
- TEMPORARY CRASH CUSHION
- TC DRUM
- TEMPORARY DELINEATOR
- TC FLASHING ARROW BOARD
- TC DRUM WITH LIGHT

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS STH 35/64	SHEET 293	E

2

2

GENERAL TRAFFIC CONTROL NOTES:

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- ALL SIGNS OR PAVEMENT MARKINGS, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.

STH 35/MAIN ST ROUNDABOUT

STH 35 SB

STH 35 NB

305

310'

315

PETERSON RD

EXISTING STH 35

317

COMPLETE CONSTRUCTION OF POND E

REMOVE TEMPORARY BYPASS

USE FLAGGING OPERATION WHEN REMOVING TIE IN AREA, IN PLACE OF SHOULDER WORK SIGNING AND LAYOUT, IF DEEMED NECESSARY BY ENGINEER. SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" FOR FLAGGER AND SIGNING LOCATIONS. SEE STAGE 1 DETAILS FOR SHOULDER WORK SIGNING AND BARREL LOCATION AND LAYOUT.

R11-2
48"X30"
ROAD CLOSED
TYPE III BARRICADE

COMPLETE CONSTRUCTION OF STH 35 NB/SB

STH 35 NB

STH 35 SB

10'

WORK ZONE

TRAFFIC CONTROL BARRICADE

TRAFFIC CONTROL BARRICADE WITH SIGN

VERTICAL PANEL

POST MOUNTED SIGN, 2 POSTS

DIRECTION OF TRAFFIC

TC FLAGS

POST MOUNTED SIGN, ONE POST

TEMPORARY CRASH CUSHION

TC DRUM

TEMPORARY DELINEATOR

TC FLASHING ARROW BOARD

TC DRUM WITH LIGHT

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS STH 35	SHEET 294	E

2

N

STOP
R1-1
48"X48"

STH 35/64 TO
FRONTAGE ROAD B
TEMPORARY CONNECTION

FRONTAGE RD B
OPEN TO LOCAL TRAFFIC

DO NOT PASS
R4-1
24"X30"

W06-3

6
(DOUBLE)

W2-2
48"X48"

SPEED LIMIT 55
R2-1
36"X48"

FRONTAGE ROAD B

STH 35/64 WB

7

STH 35/64 EB

245 250 255 260

MILL AND RELAY
EXISTING STH 35/64
UNDER TRAFFIC

STH 35/64 EB LANES
CLOSED TO TRAFFIC

GENERAL TRAFFIC CONTROL NOTES:

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PAVEMENT MARKING LEGEND

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2. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
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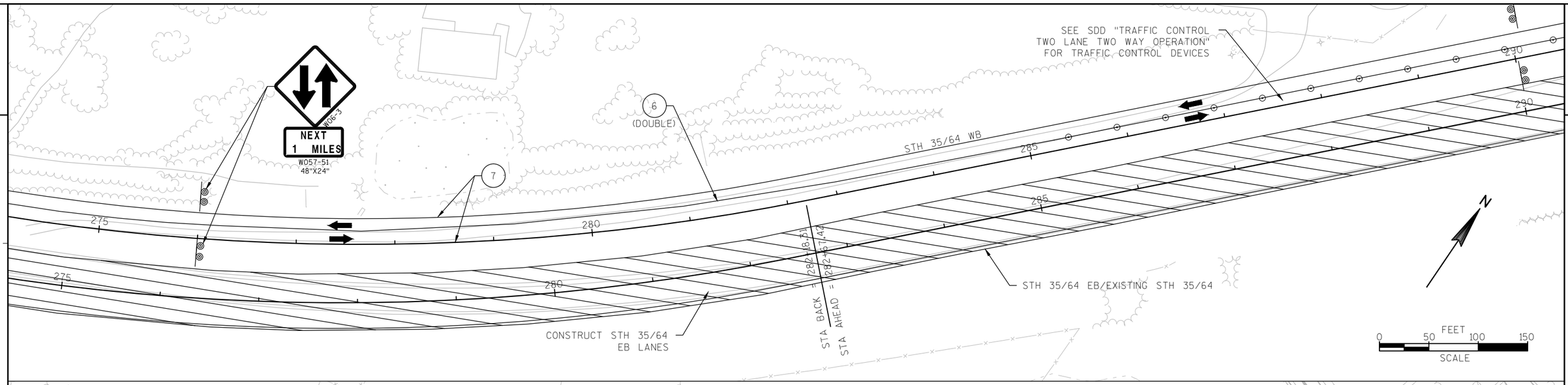
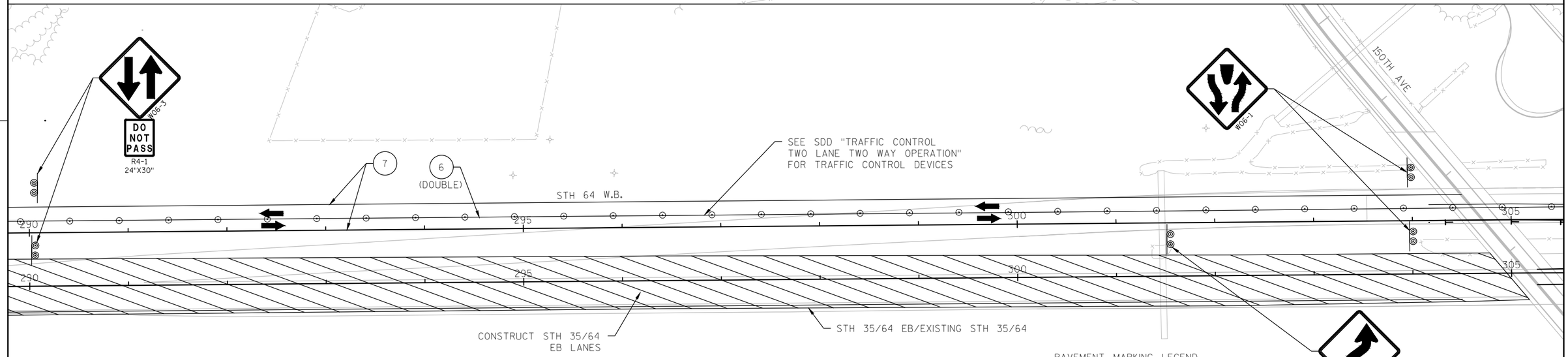
WORK ZONE
VERTICAL PANEL
DIRECTION OF TRAFFIC
POST MOUNTED SIGN, ONE POST
TRAFFIC CONTROL BARRICADE
TRAFFIC CONTROL BARRICADE WITH SIGN
POST MOUNTED SIGN, 2 POSTS
TC FLAGS
TEMPORARY CRASH CUSHION
TC DRUM
TEMPORARY DELINEATOR
TC FLASHING ARROW BOARD
TC DRUM WITH LIGHT

0 50 100 150
FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS STH 35/64	SHEET 295	E





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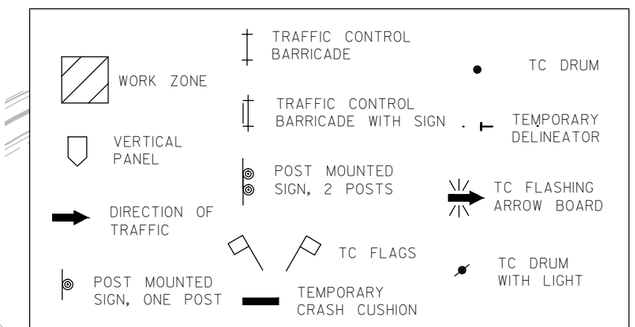

PAVEMENT MARKING LEGEND

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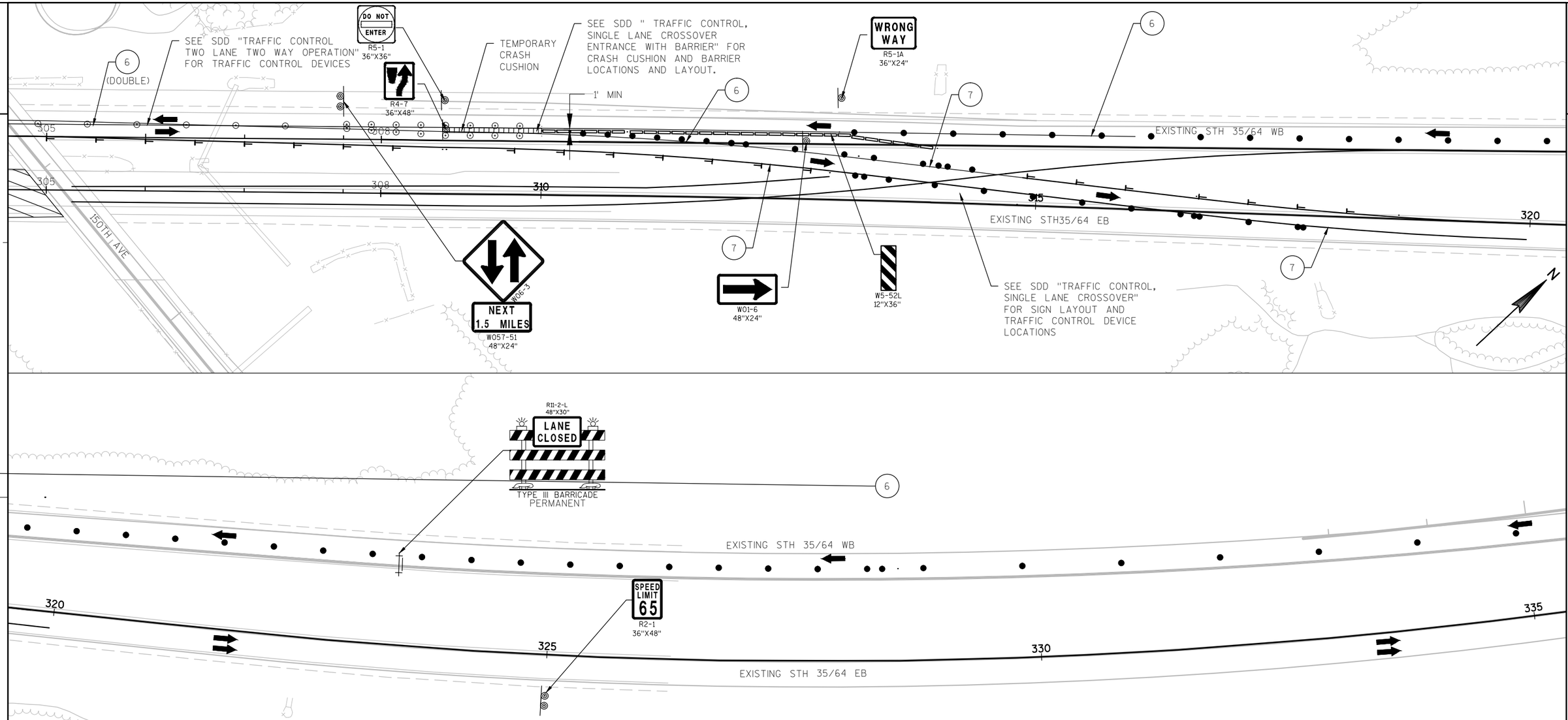
7. EPOXY PAVEMENT MARKING, 4-INCH WHITE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS STH 35/64	SHEET 296	E



PAVEMENT MARKING LEGEND

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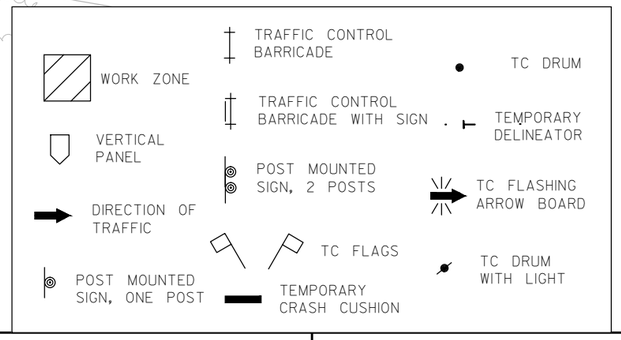

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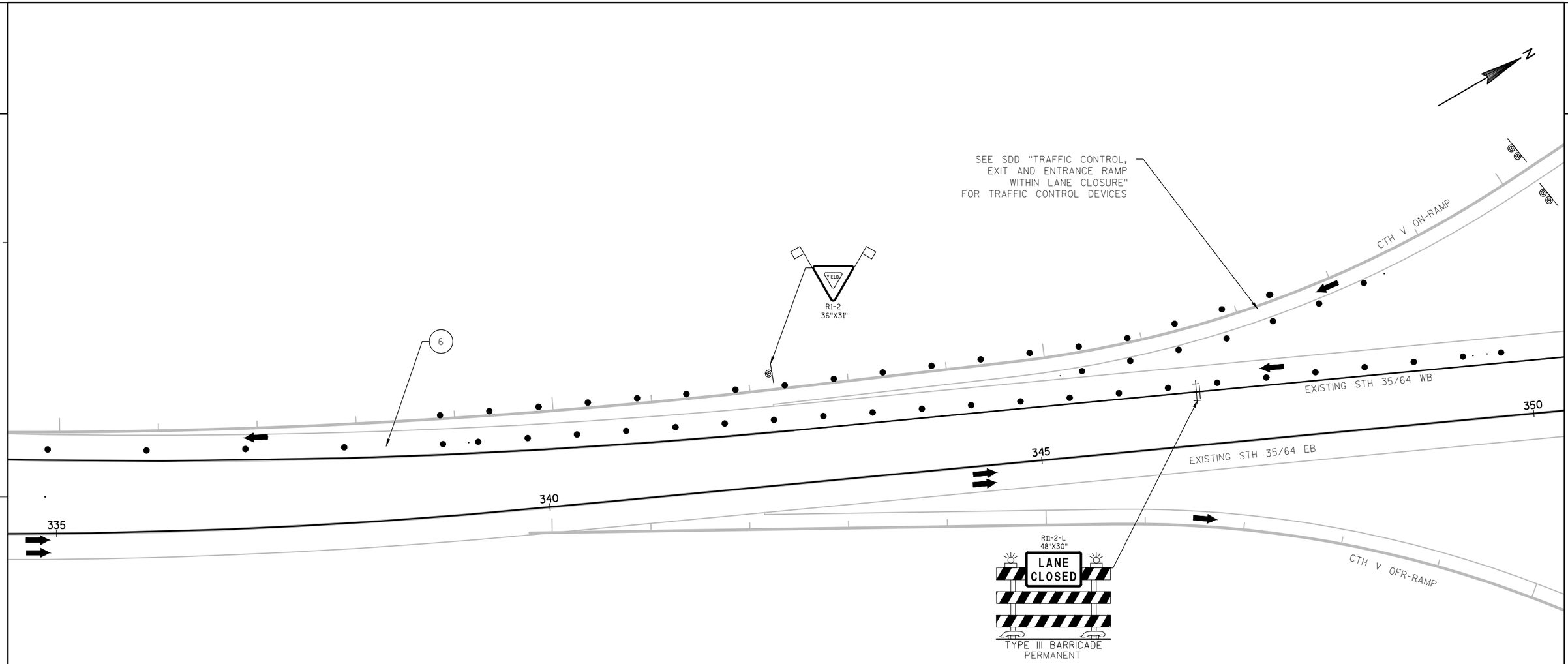
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS STH 35/64	SHEET 297	E

2



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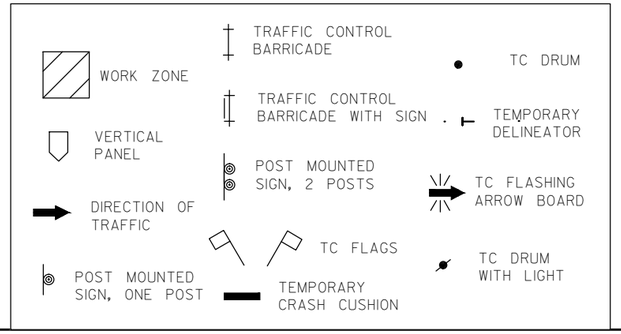

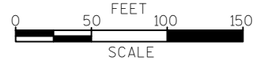

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PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS STH 35/64	SHEET 298	E

2

2

N

CONSTRUCT CTH E FROM EAST INTERCHANGE ROUNDABOUT TO PROJECT END

CONSTRUCT STH 64 GAP
STA 183+66.59 - 185+43.44

FEET
0 50 100 150
SCALE

NW RAMP

NE RAMP

SW RAMP

SE RAMP

CTH E

STH 64 WB

STH 64 EB

COMPLETE INTERCHANGE ROUNDABOUTS AND RAMP CONSTRUCTION

GENERAL TRAFFIC CONTROL NOTES:

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WORK ZONE
VERTICAL PANEL
DIRECTION OF TRAFFIC
POST MOUNTED SIGN, ONE POST
TRAFFIC CONTROL BARRICADE
TRAFFIC CONTROL BARRICADE WITH SIGN
POST MOUNTED SIGN, 2 POSTS
TC FLAGS
TEMPORARY CRASH CUSHION
TC DRUM
TEMPORARY DELINEATOR
TC FLASHING ARROW BOARD
TC DRUM WITH LIGHT

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS CTH E	SHEET 299	E

2

*FOR STAGE 3 CTH E ROAD CLOSURE SIGNING DETAILS SEE DETOUR PLAN SHEETS

EXISTING CTH E

18

USE FLAGGING OPERATION AT TIE IN AREA, IN PLACE OF SHOULDER WORK SIGNING AND LAYOUT, IF DEEMED NECESSARY BY ENGINEER. SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" FOR FLAGGER AND SIGNING LOCATIONS. OTHERWISE CONTINUE STAGE 2 SHOULDER WORK DETAILS FOR SIGNING AND BARREL LOCATION AND LAYOUT.

R11-2
48"X30"
ROAD CLOSED

TYPE III BARRICADE
PERMANENT

TYPE III BARRICADE
PERMANENT

CLOSE AND DETOUR CTH E

COMPLETE SCHOOL ROAD

15

GENERAL TRAFFIC CONTROL NOTES:

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COMPLETE STH 35/CTH E
STA 19+00 - 40+00

STH 35 SB

STH 35 NB

NW RAMP

START CONSTRUCTION OF GORE POND

STH 64 WB

30

COMPLETE INTERCHANGE ROUNDABOUT AND RAMP CONSTRUCTION

SW RAMP

SHARED USE PATH

WORK ZONE	TRAFFIC CONTROL BARRICADE
VERTICAL PANEL	TRAFFIC CONTROL BARRICADE WITH SIGN
DIRECTION OF TRAFFIC	POST MOUNTED SIGN, 2 POSTS
POST MOUNTED SIGN, ONE POST	TC FLAGS
TEMPORARY CRASH CUSHION	TC DRUM
TEMPORARY DELINEATOR	TC FLASHING ARROW BOARD
TC DRUM WITH LIGHT	

N

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS CTH E	SHEET 300	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025045_TC_S3_72.DWG PLOT DATE : 9/26/2014 12:53 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : _____ PLOT SCALE : ********** WISDOT/CADDS SHEET 42

GENERAL TRAFFIC CONTROL NOTES:

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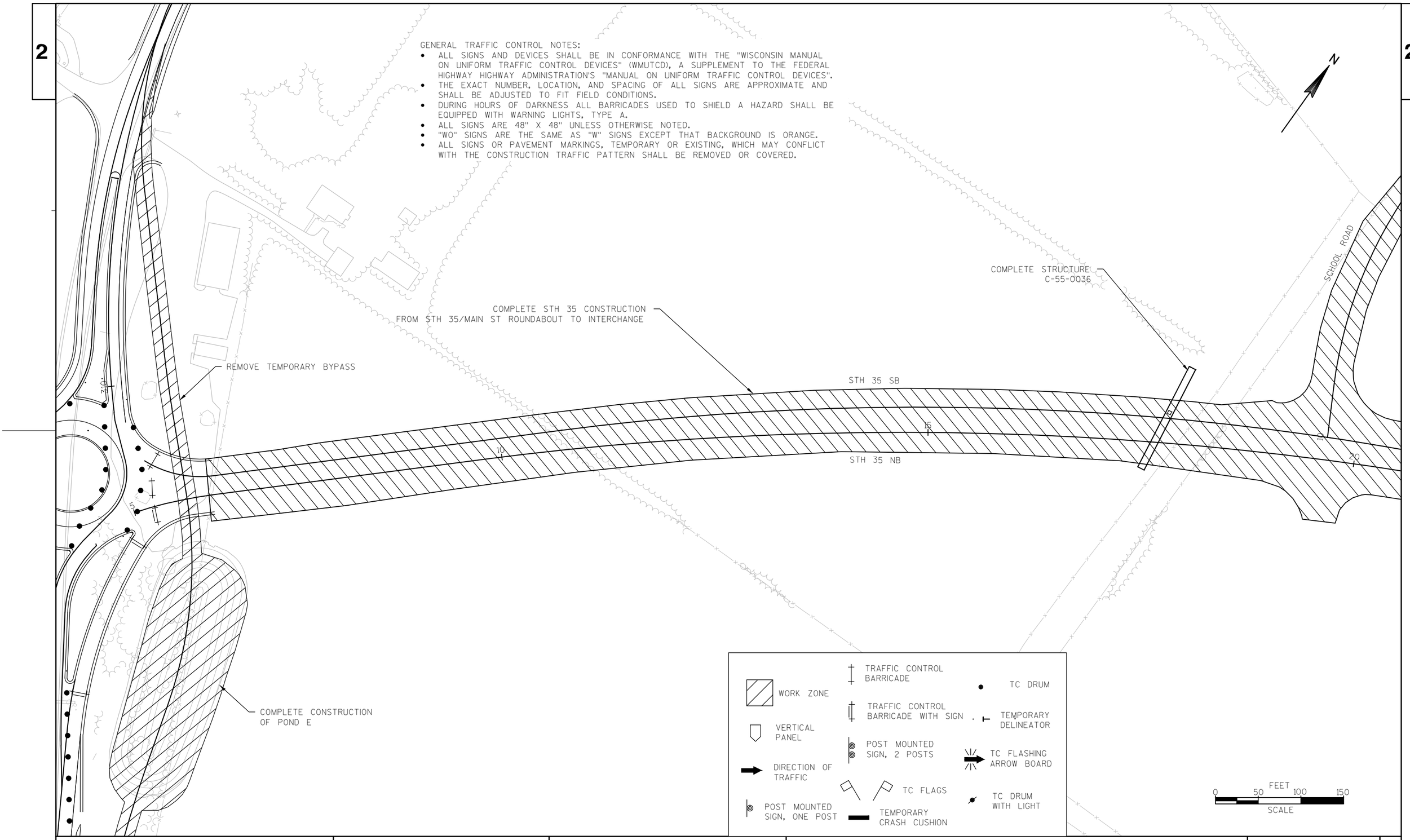

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS CTH E	SHEET 301	E

GENERAL TRAFFIC CONTROL NOTES:

- ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AR3E APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.
- DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.
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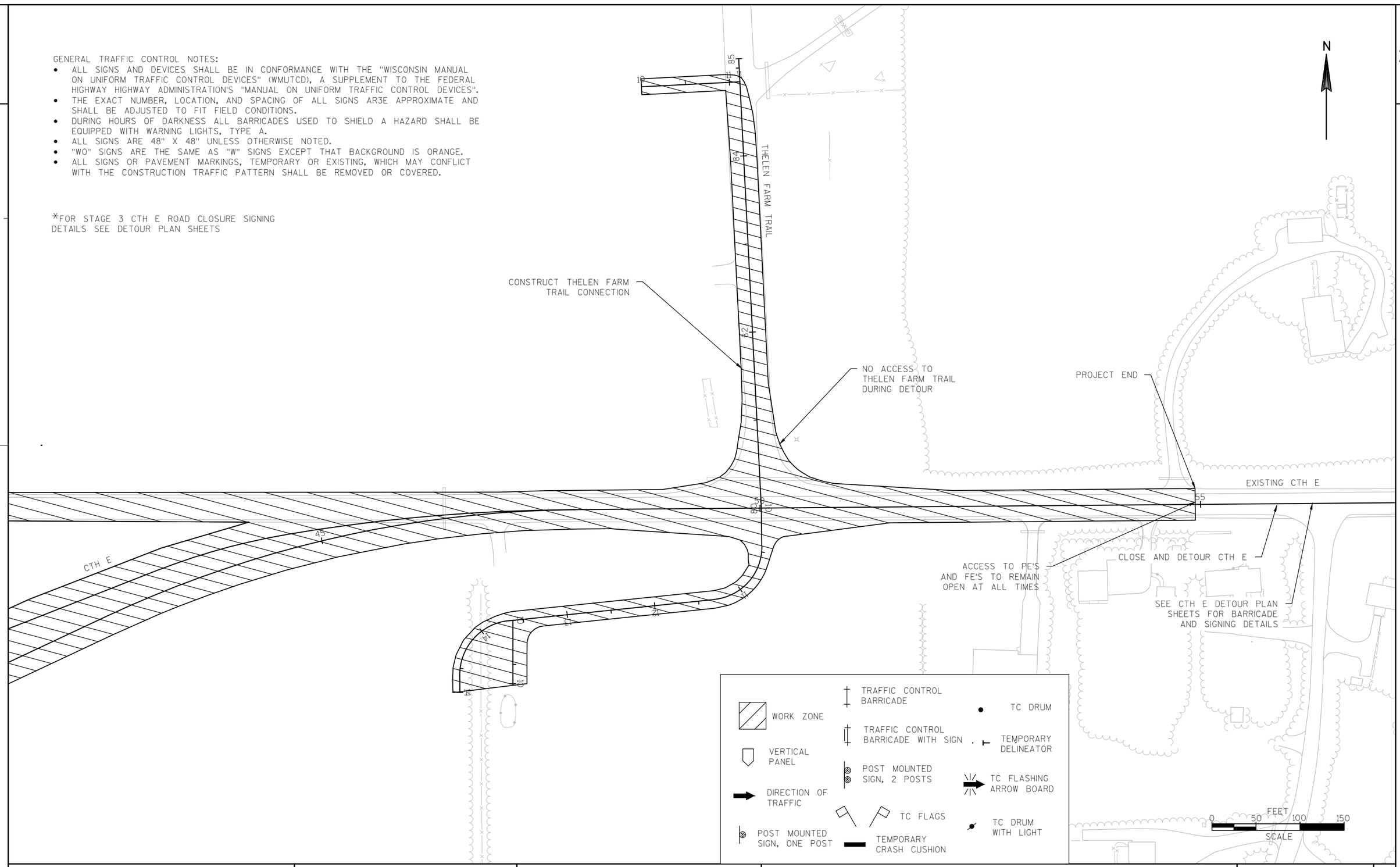
*FOR STAGE 3 CTH E ROAD CLOSURE SIGNING DETAILS SEE DETOUR PLAN SHEETS



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS CTH E	SHEET 302 E

2

N

FRONTAGE ROAD A OPEN
STA 231+00 - 250+00

STA BACK = 237+08.40
STA AHEAD = 237+08.40

ROAD CLOSED AHEAD
W20-3-A

W06-3

DO NOT PASS
R4-1
24"X30"

W01-4-L

55 M.P.H.
W013-1
36"X36"

FRONTAGE ROAD B
OPEN TO TRAFFIC

FRONTAGE ROAD B

W01-6
48"X24"

ACCESS TO DRIVEWAY TO REMAIN OPEN AT ALL TIMES

TYPE III BARRICADE
PERMANENT

FRONTAGE ROAD A

230 235 240 245

6 (DOUBLE)

7

STH 35/64 WB

STH 35/64 EB

STA BACK = 236+11.83
STA AHEAD = 237+08.40

W2-2
48"X48"

CONSTRUCT FRONTAGE ROAD C
UNDER TRAFFIC USING
FLAGGING OPERATIONS

FRONTAGE ROAD C

STH 35/64 EB LANES
CLOSED TO TRAFFIC

R11-2
48"X30"
ROAD CLOSED

TYPE III BARRICADE
PERMANENT

ACCESS TO DRIVEWAY TO
REMAIN OPEN AT ALL TIMES

ACCESS TO DRIVEWAY TO REMAIN OPEN AT ALL TIMES. COORDINATE WITH PROPERTY OWNER PRIOR TO WORKING ON EITHER SETTLER'S WAY OR 20TH AVE INTERSECTIONS. PROPERTY OWNER MUST BE AWARE OF ALLOWED INGRESS AND EGRESS MOVEMENTS.

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
2. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
3. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW WITH RAISED PAVEMENT MARKERS AT 25' SPACING
4. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE WITH RAISED PAVEMENT MARKERS AT 25' SPACING
5. TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW WITH TWO-WAY RAISED PAVEMENT MARKERS AT 25' SPACING
6. EPOXY PAVEMENT MARKING, 4-INCH YELLOW
7. EPOXY PAVEMENT MARKING, 4-INCH WHITE

GENERAL TRAFFIC CONTROL NOTES:

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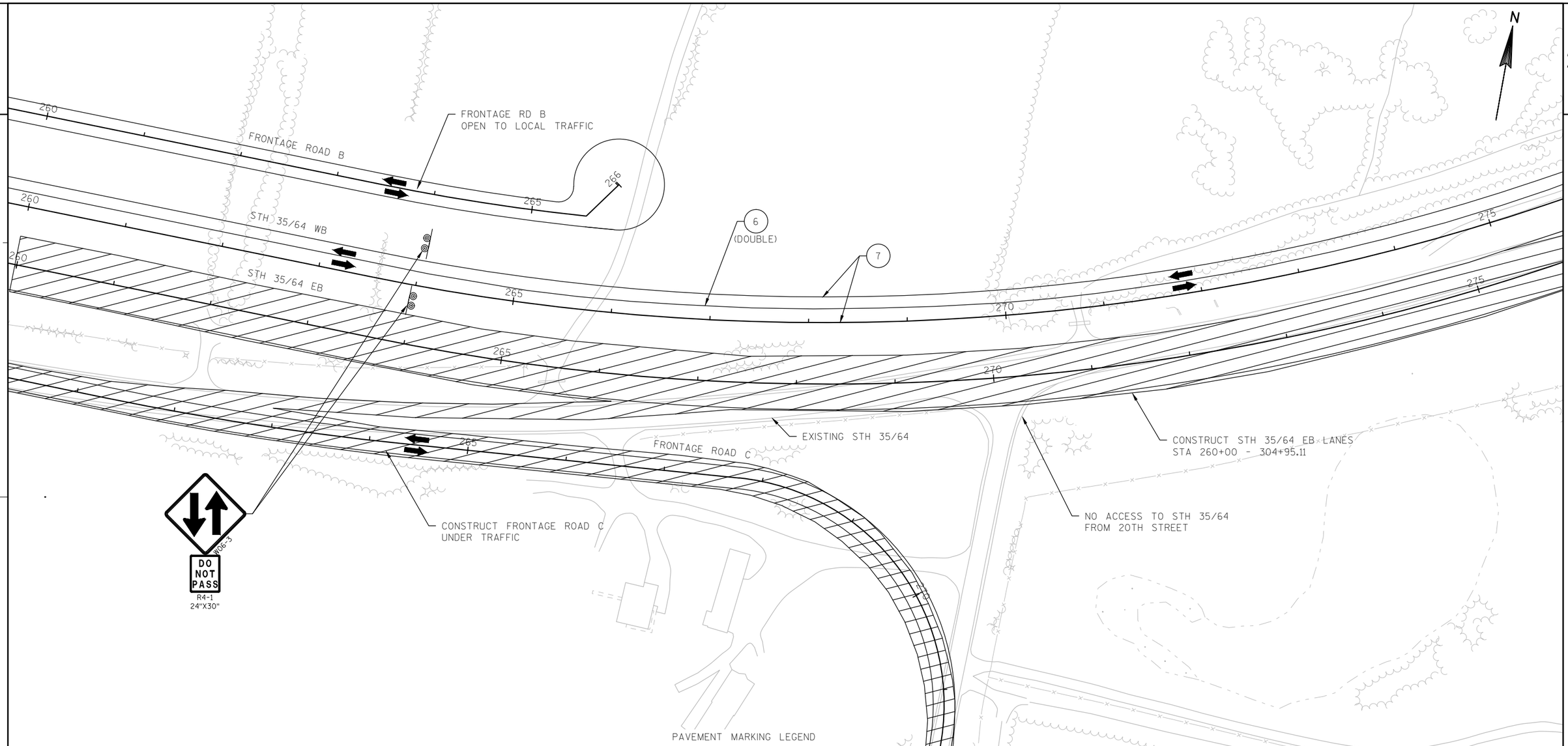
WORK ZONE
VERTICAL PANEL
DIRECTION OF TRAFFIC
POST MOUNTED SIGN, ONE POST
TRAFFIC CONTROL BARRICADE
TRAFFIC CONTROL BARRICADE WITH SIGN
POST MOUNTED SIGN, 2 POSTS
TC FLAGS
TEMPORARY CRASH CUSHION
TC DRUM
TEMPORARY DELINEATOR
TC FLASHING ARROW BOARD
TC DRUM WITH LIGHT

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS STH 35/64	SHEET 303	E

2



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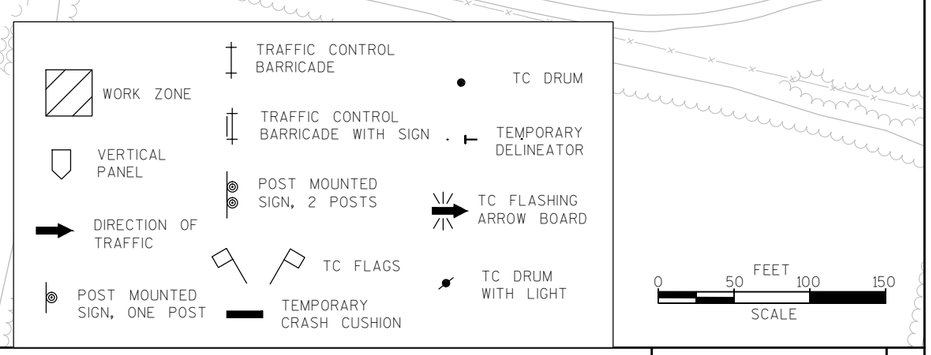
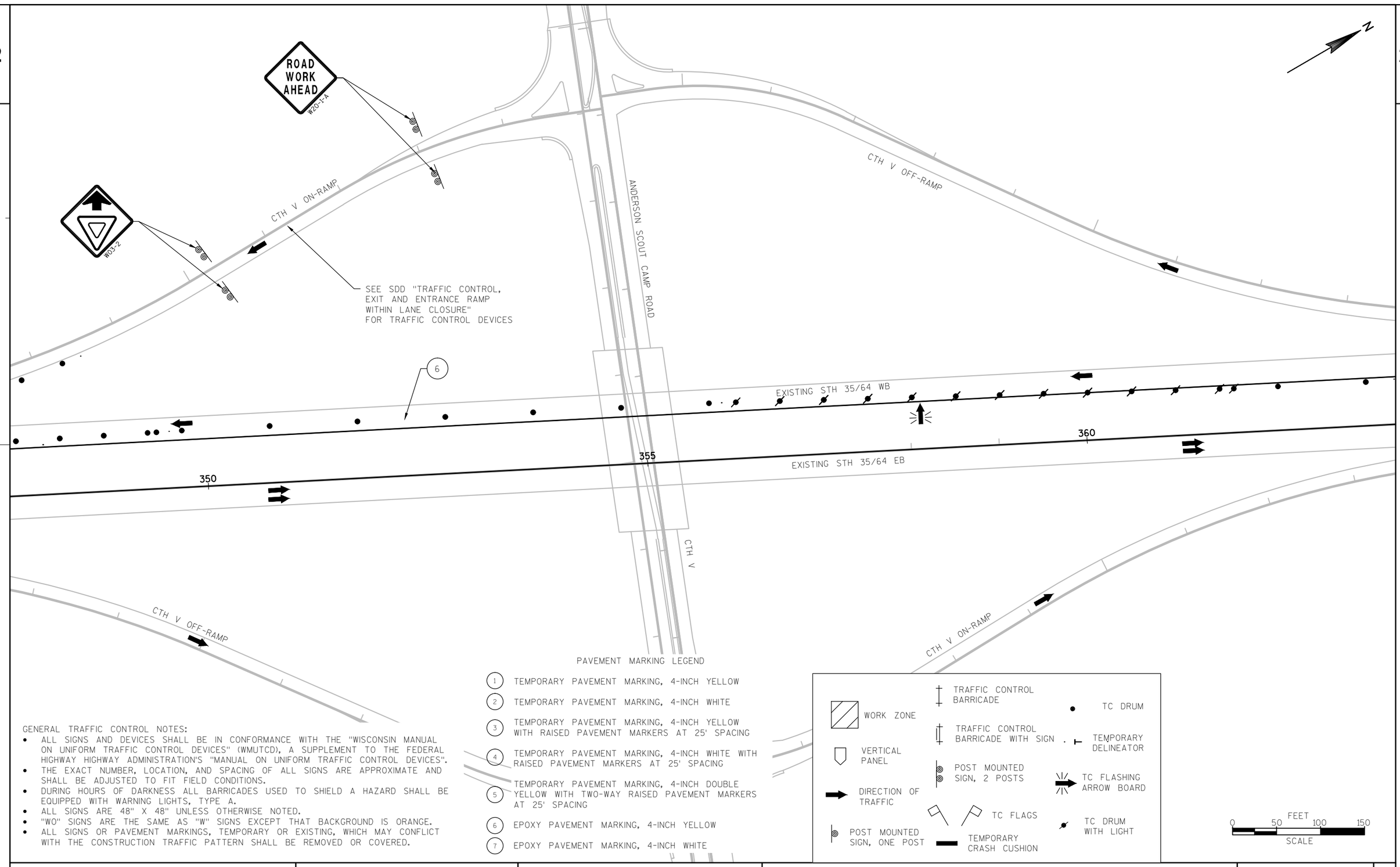


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS STH 35/64	SHEET 304	E

2



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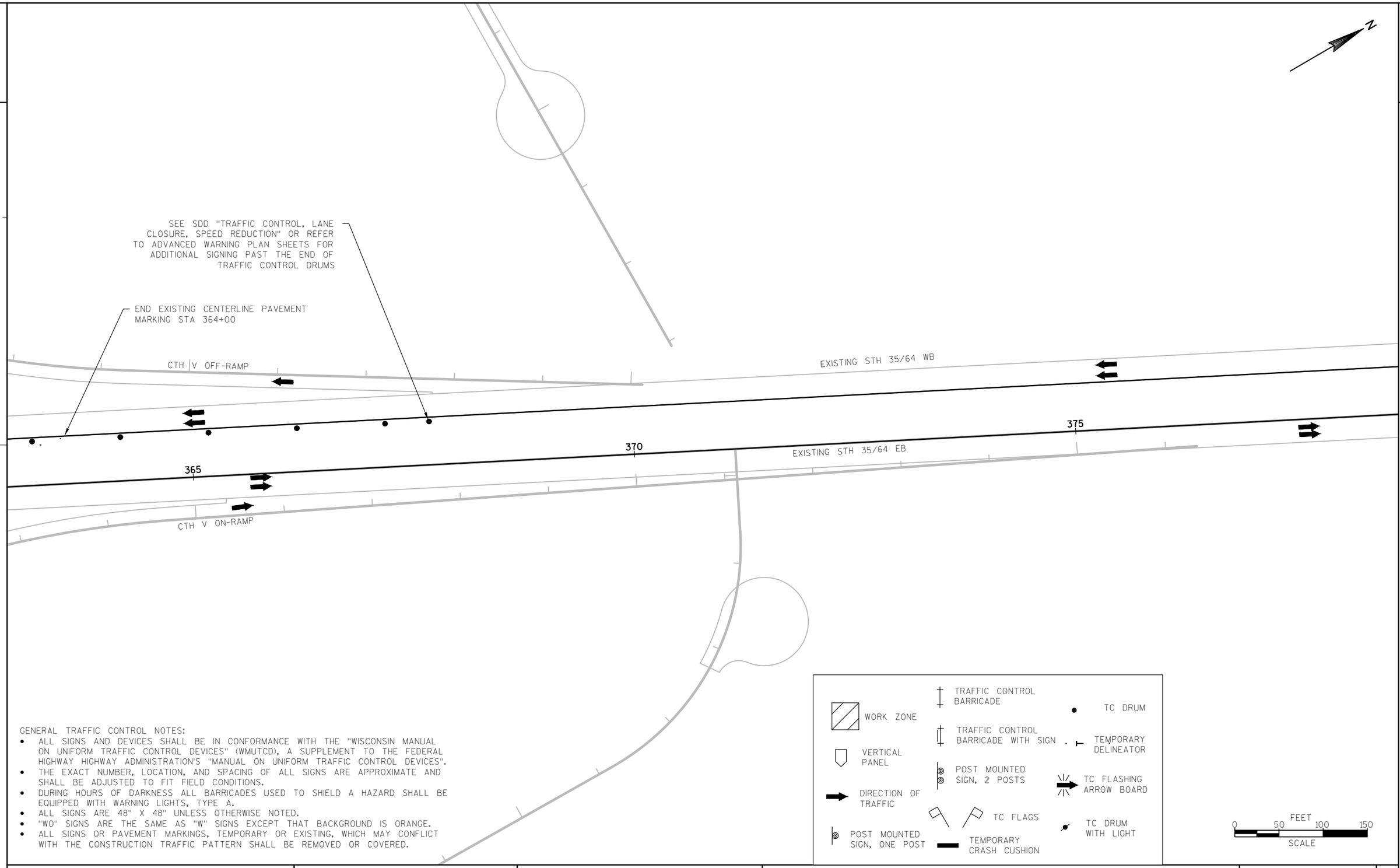
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS STH 35/64	SHEET 305	E

2



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PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: STAGE 3 DETAILS STH 35/64	SHEET 306	E

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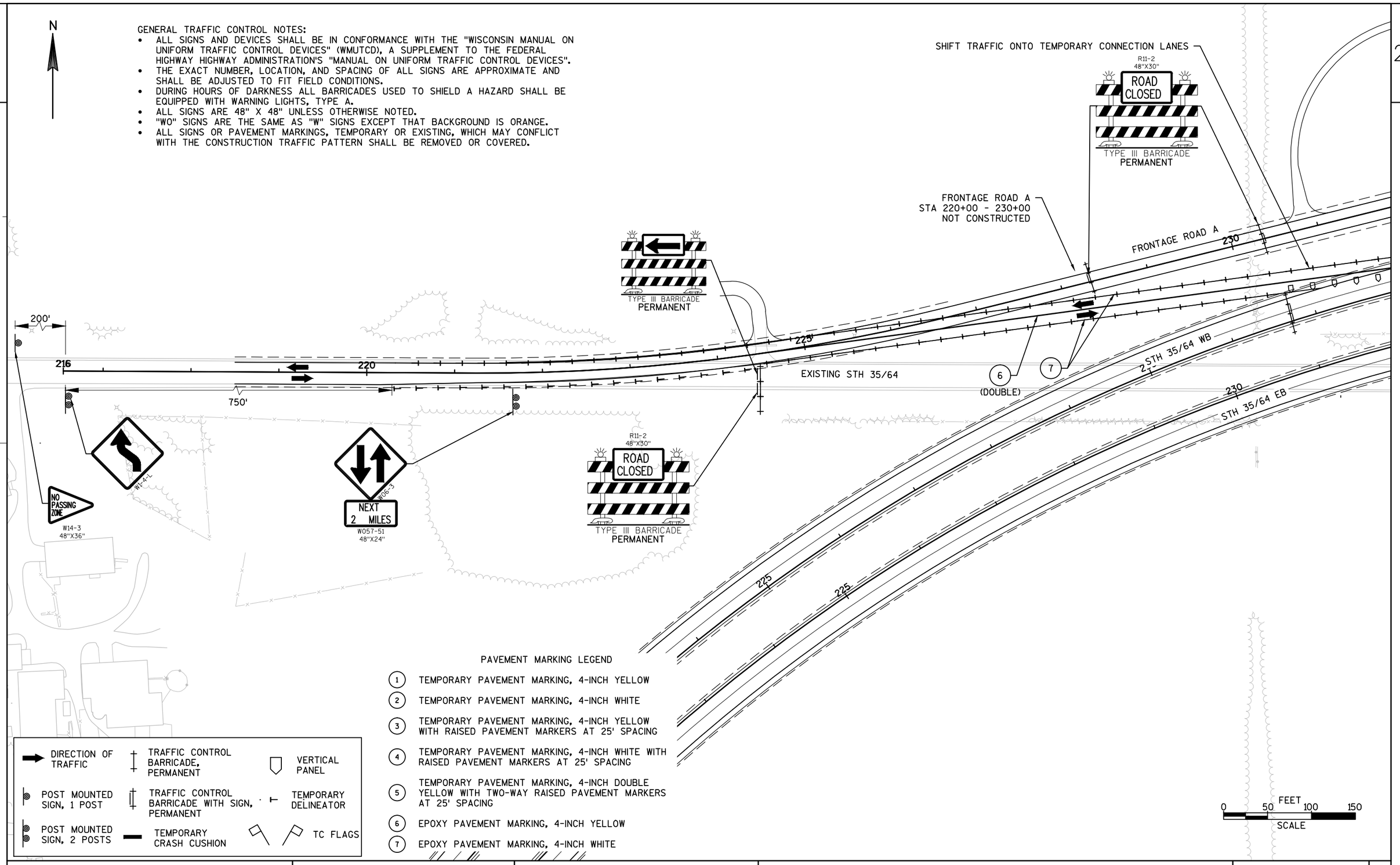

PAVEMENT MARKING LEGEND

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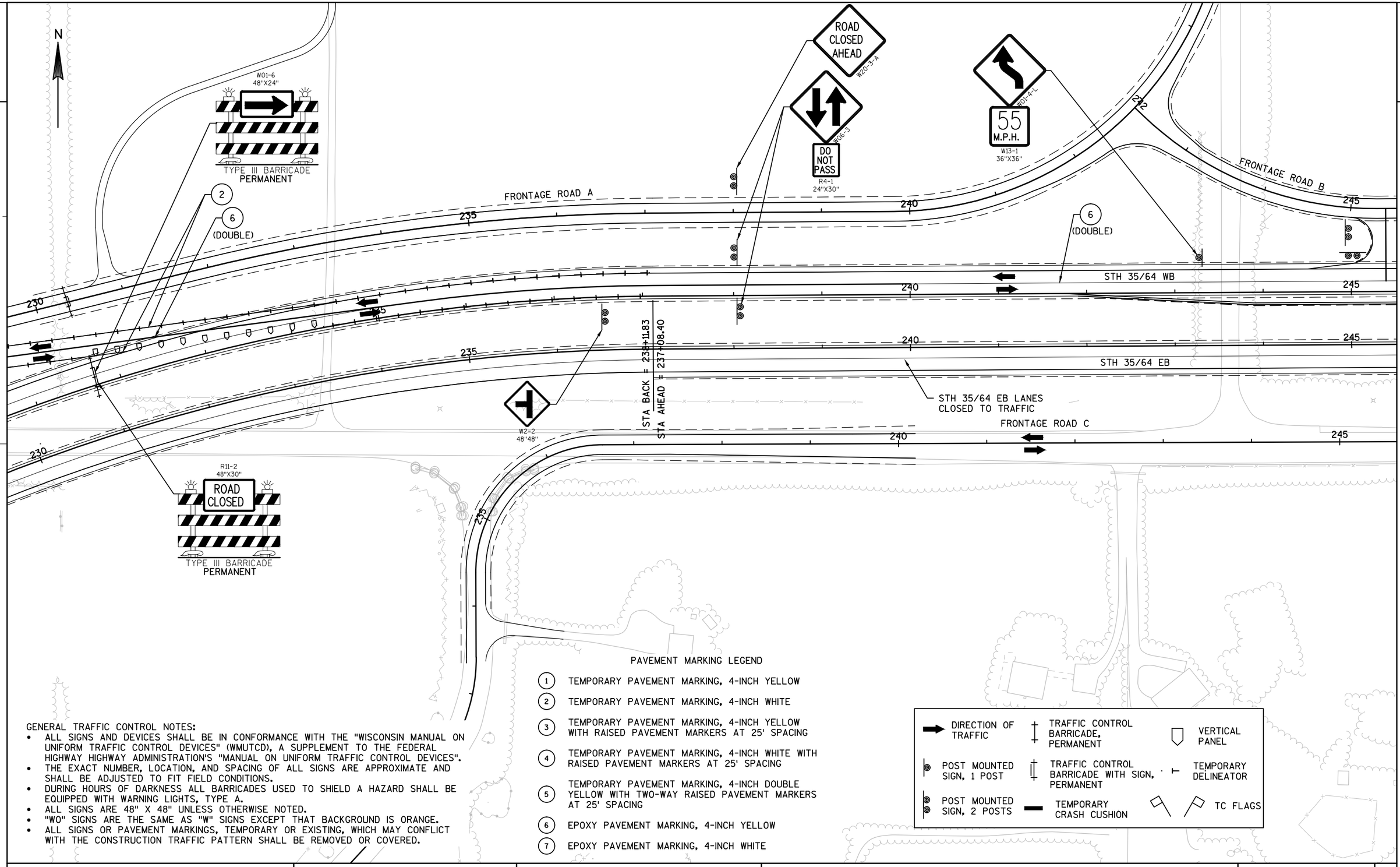
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS STH 35/64	SHEET 307	E



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DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADE, PERMANENT		VERTICAL PANEL
POST MOUNTED SIGN, 1 POST	TRAFFIC CONTROL BARRICADE WITH SIGN, PERMANENT		TEMPORARY DELINEATOR
POST MOUNTED SIGN, 2 POSTS	TEMPORARY CRASH CUSHION		TC FLAGS

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS STH 35/64	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025050_TC_WINTER_72.DWG PLOT DATE : 8/5/2014 9:36 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

N

STOP
R1-1
48"X48"

6
(DOUBLE)

DO NOT PASS
R4-1
24"X30"
W06-3

FRONTAGE RD B
OPEN TO LOCAL TRAFFIC

W2-2
30"X30"

SPEED LIMIT 55
R2-1
36"X48"

FRONTAGE ROAD B

245 250 255 260

STH 35/64 WB

245 250 255 260

STH 35/64 EB

245 250 255 260

STH 35/64 EB LANES
CLOSED TO TRAFFIC

245 250 255 260

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DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADE, PERMANENT	VERTICAL PANEL
POST MOUNTED SIGN, 1 POST	TRAFFIC CONTROL BARRICADE WITH SIGN, PERMANENT	TEMPORARY DELINEATOR
POST MOUNTED SIGN, 2 POSTS	TEMPORARY CRASH CUSHION	TC FLAGS

PAVEMENT MARKING LEGEND

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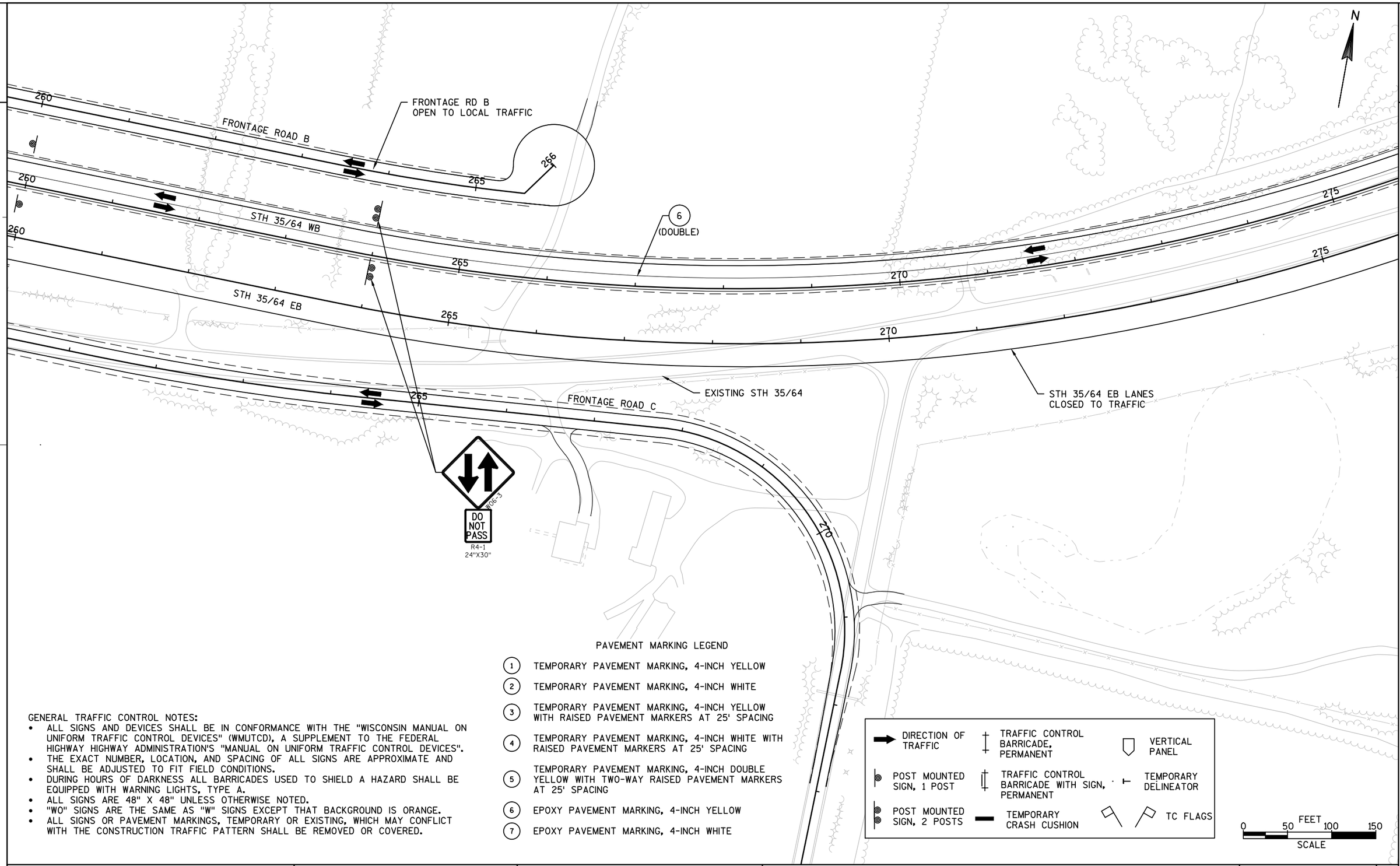
6. EPOXY PAVEMENT MARKING, 4-INCH YELLOW
7. EPOXY PAVEMENT MARKING, 4-INCH WHITE

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS STH 35/64	SHEET 309	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025050_TC_WINTER_72.DWG PLOT DATE : 8/5/2014 9:36 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 42



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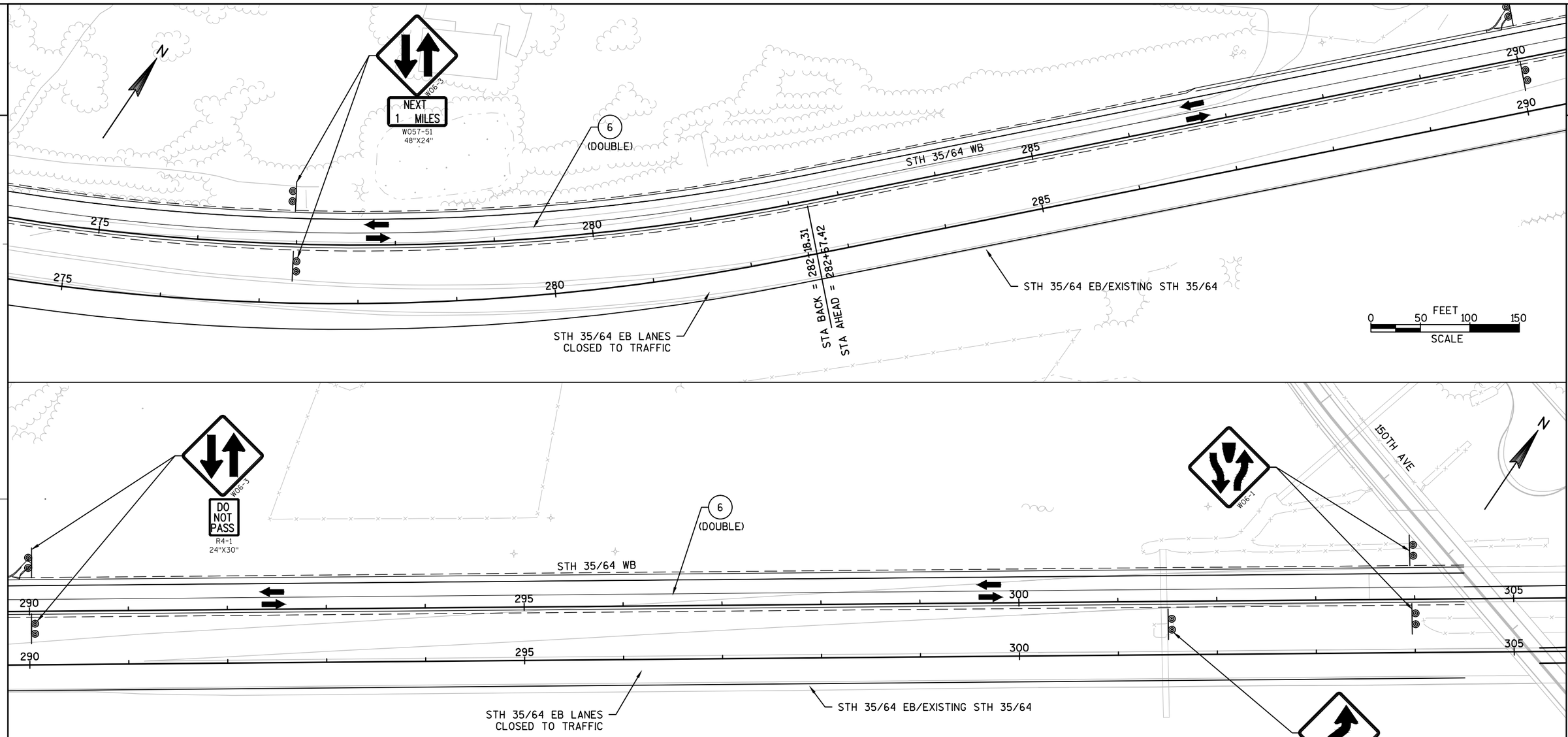
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS STH 35/64	SHEET 310	E



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POST MOUNTED SIGN, 2 POSTS	TEMPORARY CRASH CUSHION		TC FLAGS

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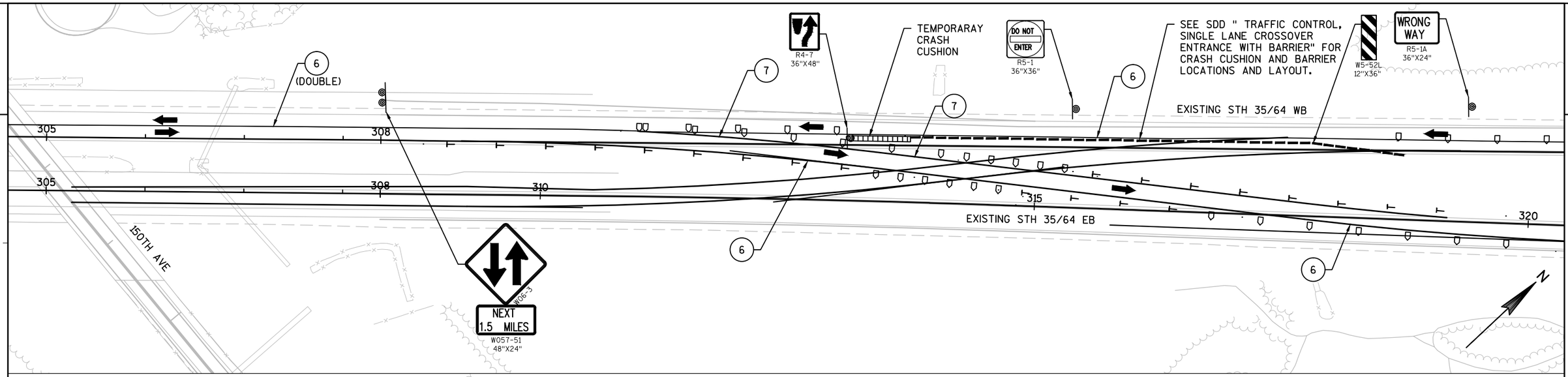
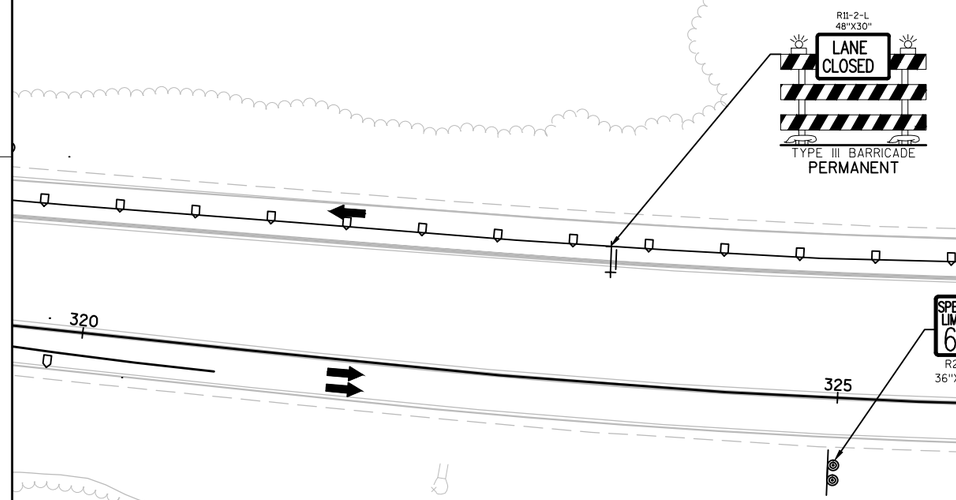
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS STH 35/64	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\025050_TC_WINTER_72.DWG PLOT DATE : 8/5/2014 9:37 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42





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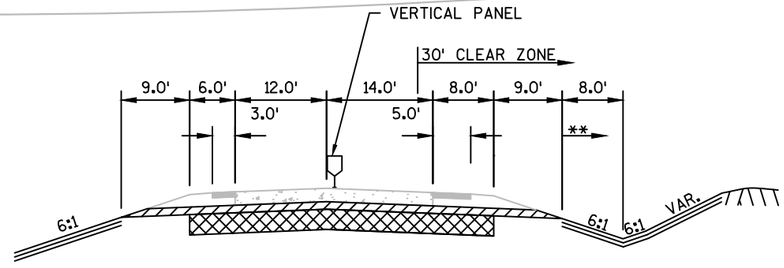
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
2. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
3. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW WITH RAISED PAVEMENT MARKERS AT 25' SPACING
4. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE WITH RAISED PAVEMENT MARKERS AT 25' SPACING
5. TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW WITH TWO-WAY RAISED PAVEMENT MARKERS AT 25' SPACING
6. EPOXY PAVEMENT MARKING, 4-INCH YELLOW
7. EPOXY PAVEMENT MARKING, 4-INCH WHITE

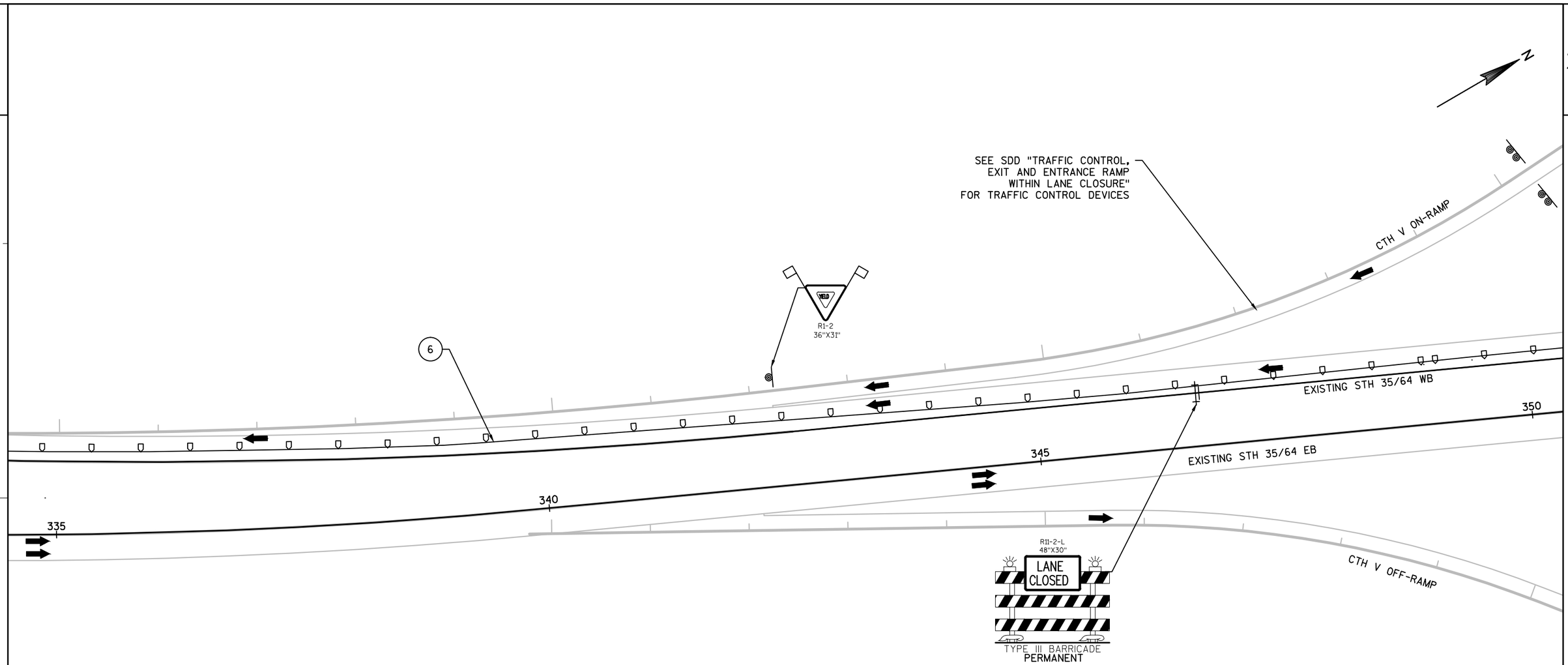
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL BARRICADE, PERMANENT
- VERTICAL PANEL
- POST MOUNTED SIGN, 1 POST
- TRAFFIC CONTROL BARRICADE WITH SIGN, PERMANENT
- TEMPORARY DELINEATOR
- POST MOUNTED SIGN, 2 POSTS
- TEMPORARY CRASH CUSHION
- TC FLAGS



FINISHED TYPICAL SECTION
STH 35/64
APPROXIMATE LIMITS
STA 285+39 – STA 304+00

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS STH 35/64	SHEET 312	E



PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
2. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
3. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW WITH RAISED PAVEMENT MARKERS AT 25' SPACING
4. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE WITH RAISED PAVEMENT MARKERS AT 25' SPACING
5. TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW WITH TWO-WAY RAISED PAVEMENT MARKERS AT 25' SPACING
6. EPOXY PAVEMENT MARKING, 4-INCH YELLOW
7. EPOXY PAVEMENT MARKING, 4-INCH WHITE

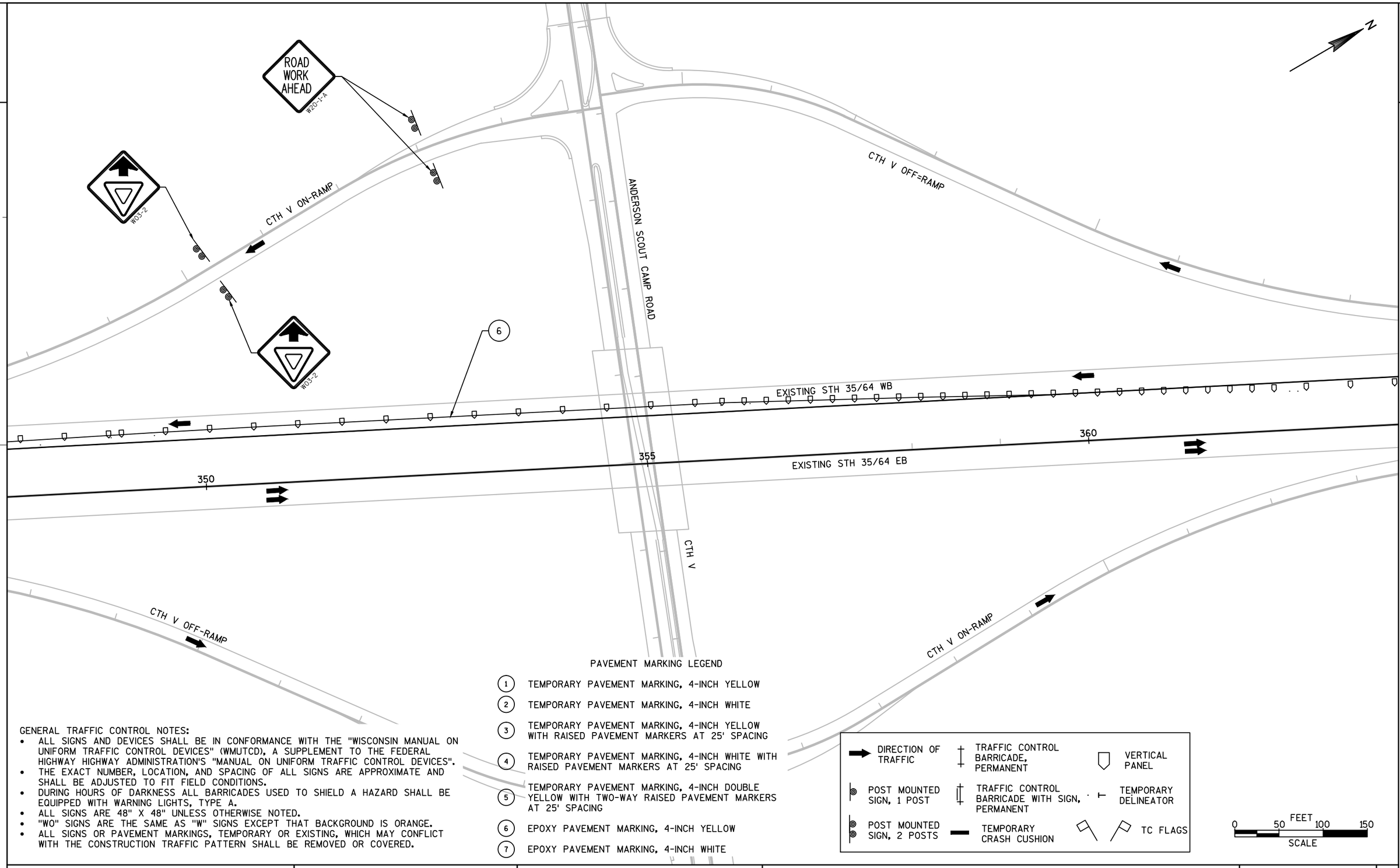
GENERAL TRAFFIC CONTROL NOTES:

- ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.
- DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT BACKGROUND IS ORANGE.
- ALL SIGNS OR PAVEMENT MARKINGS, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADE, PERMANENT	VERTICAL PANEL		
POST MOUNTED SIGN, 1 POST	TRAFFIC CONTROL BARRICADE WITH SIGN, PERMANENT	TEMPORARY DELINEATOR		
POST MOUNTED SIGN, 2 POSTS	TEMPORARY CRASH CUSHION	TC FLAGS		

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS STH 35/64	SHEET 313	E



PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
2. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
3. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW WITH RAISED PAVEMENT MARKERS AT 25' SPACING
4. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE WITH RAISED PAVEMENT MARKERS AT 25' SPACING
5. TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW WITH TWO-WAY RAISED PAVEMENT MARKERS AT 25' SPACING
6. EPOXY PAVEMENT MARKING, 4-INCH YELLOW
7. EPOXY PAVEMENT MARKING, 4-INCH WHITE

GENERAL TRAFFIC CONTROL NOTES:

- ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.
- DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT BACKGROUND IS ORANGE.
- ALL SIGNS OR PAVEMENT MARKINGS, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.

DIRECTION OF TRAFFIC
TRAFFIC CONTROL BARRICADE, PERMANENT
VERTICAL PANEL
POST MOUNTED SIGN, 1 POST
TRAFFIC CONTROL BARRICADE WITH SIGN, PERMANENT
TEMPORARY DELINEATOR
POST MOUNTED SIGN, 2 POSTS
TEMPORARY CRASH CUSHION
TC FLAGS

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS STH 35/64	SHEET 314	E

2

N

SEE SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 MPH" OR REFER TO ADVANCED WARNING PLAN SHEETS FOR ADDITIONAL SIGNING PAST THE END OF VERTICAL PANELS

END EXISTING CENTERLINE PAVEMENT MARKING STA 364+00

CTH V OFF-RAMP

EXISTING STH 35/64 WB

EXISTING STH 35/64 EB

365

370

375

CTH V ON-RAMP

GENERAL TRAFFIC CONTROL NOTES:

- ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.
- DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT BACKGROUND IS ORANGE.
- ALL SIGNS OR PAVEMENT MARKINGS, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.

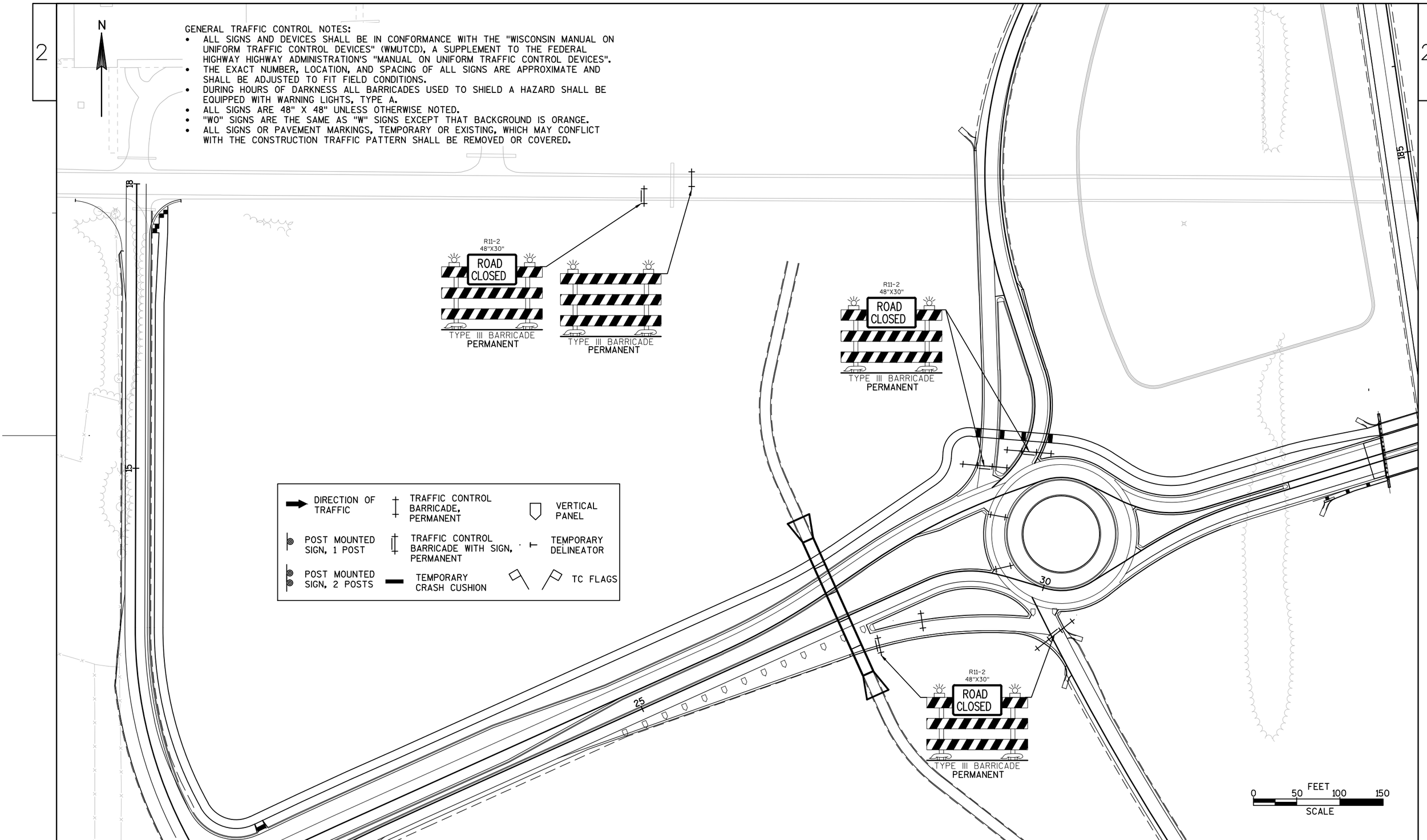
DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADE, PERMANENT	VERTICAL PANEL
POST MOUNTED SIGN, 1 POST	TRAFFIC CONTROL BARRICADE WITH SIGN, PERMANENT	TEMPORARY DELINEATOR
POST MOUNTED SIGN, 2 POSTS	TEMPORARY CRASH CUSHION	TC FLAGS

0 50 100 150 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS STH 35/64	SHEET 315 E

GENERAL TRAFFIC CONTROL NOTES:

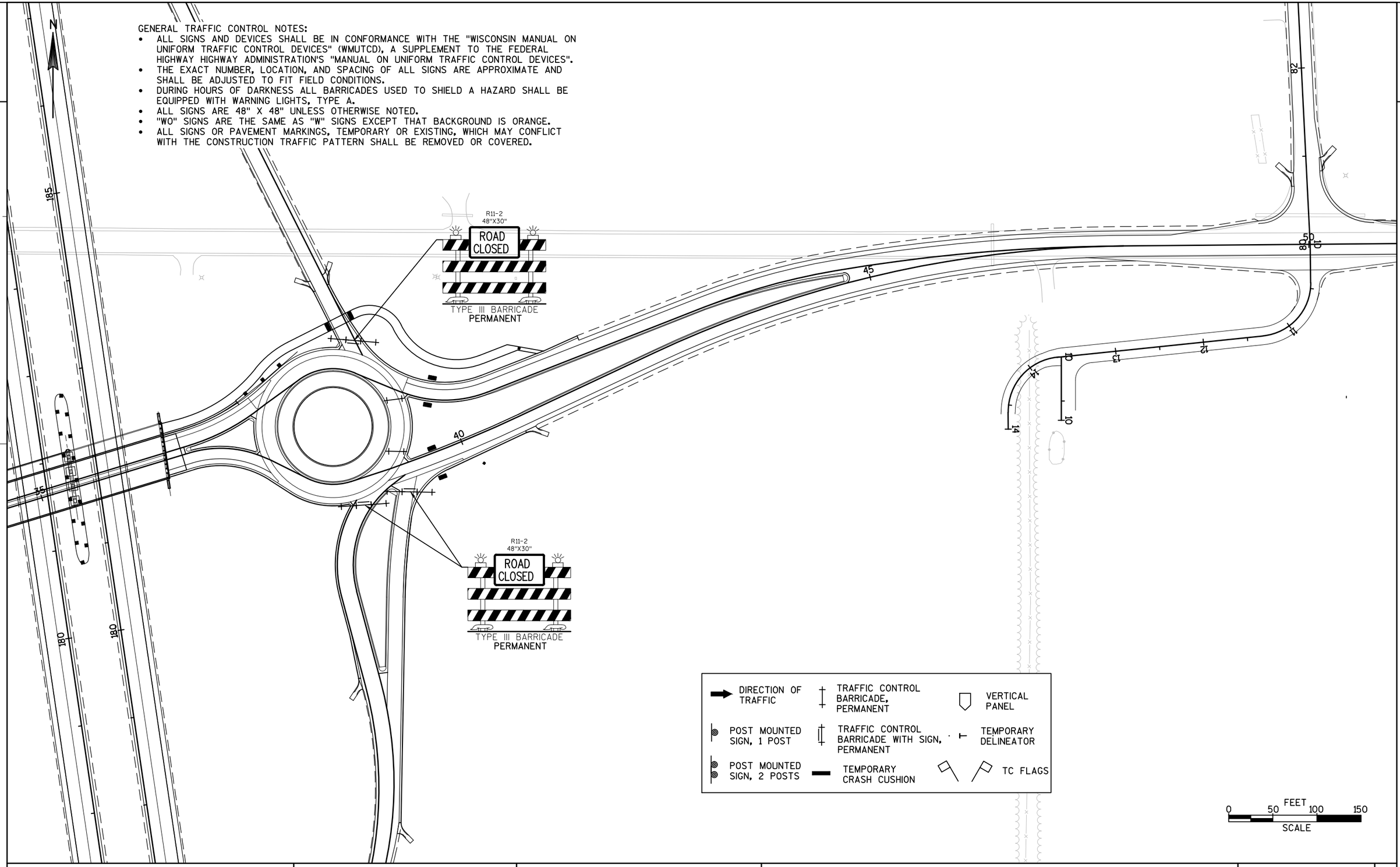
- ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.
- DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT BACKGROUND IS ORANGE.
- ALL SIGNS OR PAVEMENT MARKINGS, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.



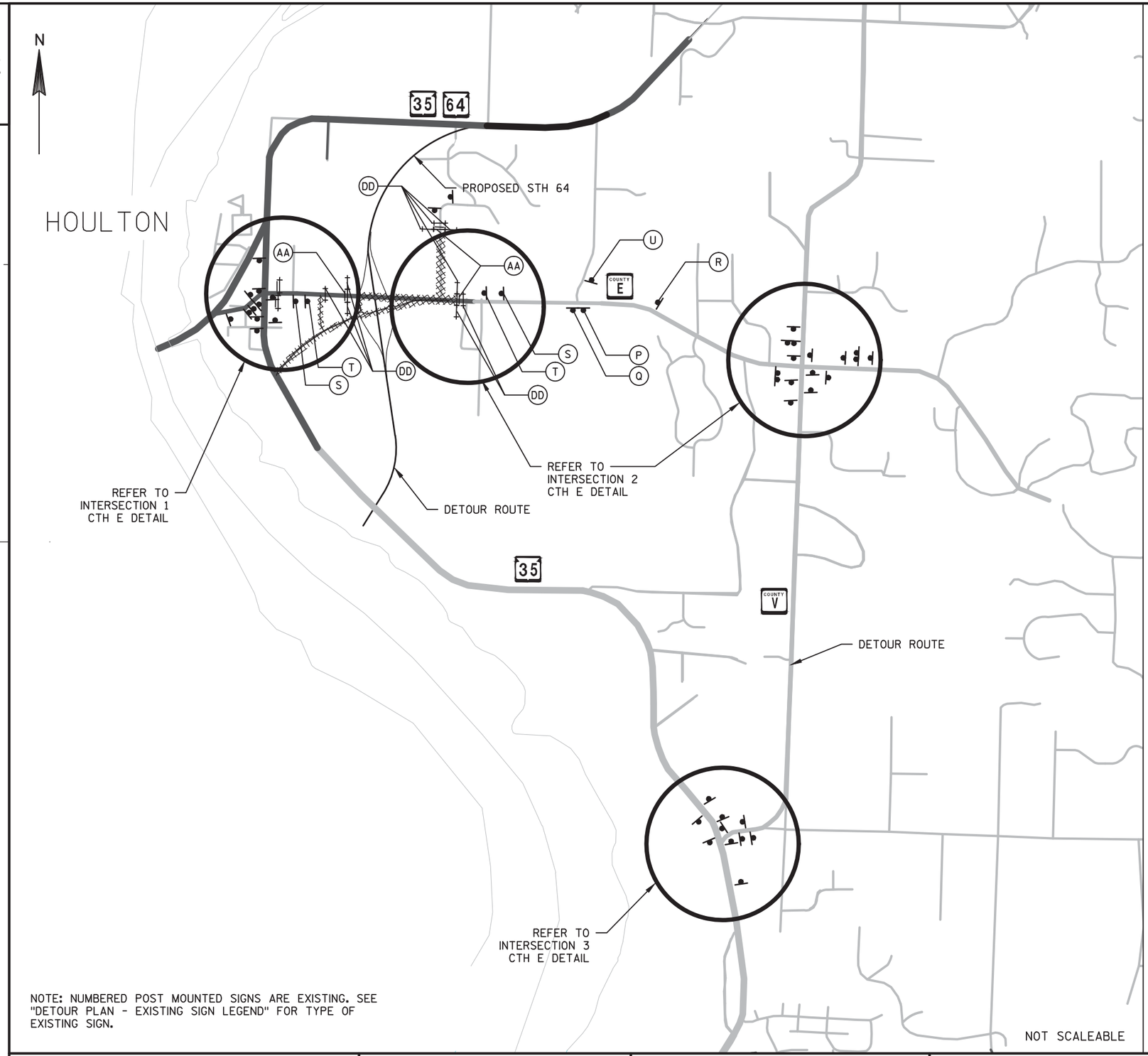
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS CTH E	SHEET 316	E

GENERAL TRAFFIC CONTROL NOTES:

- ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD), A SUPPLEMENT TO THE FEDERAL HIGHWAY HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.
- DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT BACKGROUND IS ORANGE.
- ALL SIGNS OR PAVEMENT MARKINGS, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	TRAFFIC CONTROL: WINTER DETAILS CTH E	SHEET 317	E



NOTE: NUMBERED POST MOUNTED SIGNS ARE EXISTING. SEE "DETOUR PLAN - EXISTING SIGN LEGEND" FOR TYPE OF EXISTING SIGN.

NOT SCALEABLE

WORK ZONE

INSTALL DETOUR SIGN

EXISTING SIGN

TYPE III BARRICADE WITH SIGN

DIRECTION OF TRAFFIC

WL TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)

P

HOULTON
STILLWATER

Q

M4-5 24"X12" — TO 35
M4-5 24"X12" — TO 64
M1-6 24"X24"
M06-1L 21"X21"
M1-6 24"X24"
M06-1L 21"X21"

R

ROAD CLOSED
1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60"X30"

* S

ROAD CLOSED 1000 FT
W20-3

T

ROAD CLOSED 500 FT
W20-3

U

NO OUTLET
W14-2
30"X30"

** AA

R11-2
48"X30"
WL WL
ROAD CLOSED
TYPE III BARRICADE

DD

WL WL
TYPE III BARRICADE

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

* SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

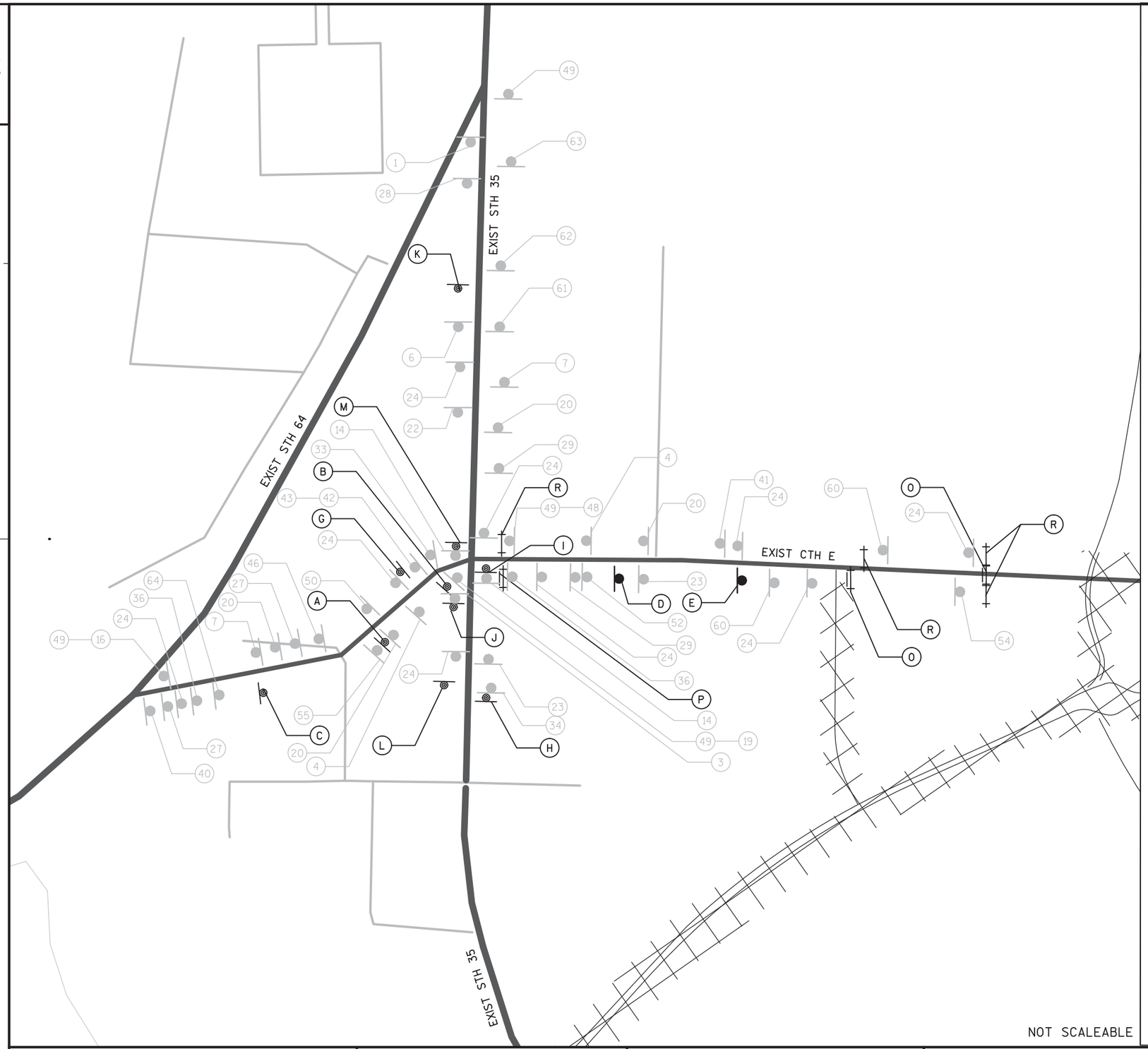
** SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B, C, D FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

MAINTAIN A MINIMUM OF 200' SPACING BETWEEN DETOUR SIGNS AND EXISTING SIGNS. ANY DETOUR SIGNS LOCATED CLOSER THAN 200' TO EXISTING SIGNS MUST BE APPROVED BY THE ENGINEER.

PROJECT NO: 8110-02-72	HWY: STH 35	COUNTY: ST CROIX	DETOUR PLAN OVERVIEW - CTH E DETOUR - STAGE 3	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\027001_DT_72.DWG PLOT DATE : 7/17/2014 3:02 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : PLOT SCALE : 0.000348
WISDOT/CADDS SHEET 42



NOT SCALEABLE

WORK ZONE

INSTALL POST MOUNTED SIGN

EXISTING SIGN TO REMAIN

TYPE III BARRICADE WITH SIGN

TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)

WL

DIRECTION OF TRAFFIC

A
DETOUR M4-8 24" X 12"
EAST M3-2 24"X12"
E M1-6 24"X24"
M05-1R 21"X21"

B
DETOUR M4-8 24" X 12"
EAST M3-2 24"X12"
E M1-6 24"X24"
M06-1R 21"X21"

C
DETOUR AHEAD W20-2

D
ROAD CLOSED 1000 FT W20-5-C

E
ROAD CLOSED 500 FT W20-3-D

G
M4-8A 24"X18"
END DETOUR
E M1-6 24"X24"

H
DETOUR M4-8 24" X 12"
WEST M3-4 24"X12"
E M1-6 24"X24"
M05-1L 21"X21"

I
DETOUR M4-8 24" X 12"
WEST M3-4 24"X12"
E M1-6 24"X24"
M06-1L 21"X21"

J
DETOUR M4-8 24" X 12"
EAST M3-2 24"X12"
E M1-6 24"X24"

K
EAST M3-2 24"X12"
E M1-6 24"X24"
DETOUR AHEAD W20-2

L
DETOUR NEXT 4.5 MILES G20-51 60"X24"

M
DETOUR M4-8 24" X 12"
EAST M3-2 24"X12" WEST M3-4 24"X12"
E M1-6 24"X24" E M1-6 24"X24"
M06-1 21"X21" M06-1R 21"X21"

O
R11-2 48"X30"
WL ROAD CLOSED WL
TYPE III BARRICADE

P
R11-3 60"X30"
WL ROAD CLOSED 1/2 MILES AHEAD LOCAL TRAFFIC ONLY WL
TYPE III BARRICADE

R
DETOUR M4-9R 30"X24"
WL WL
TYPE III BARRICADE

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

SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

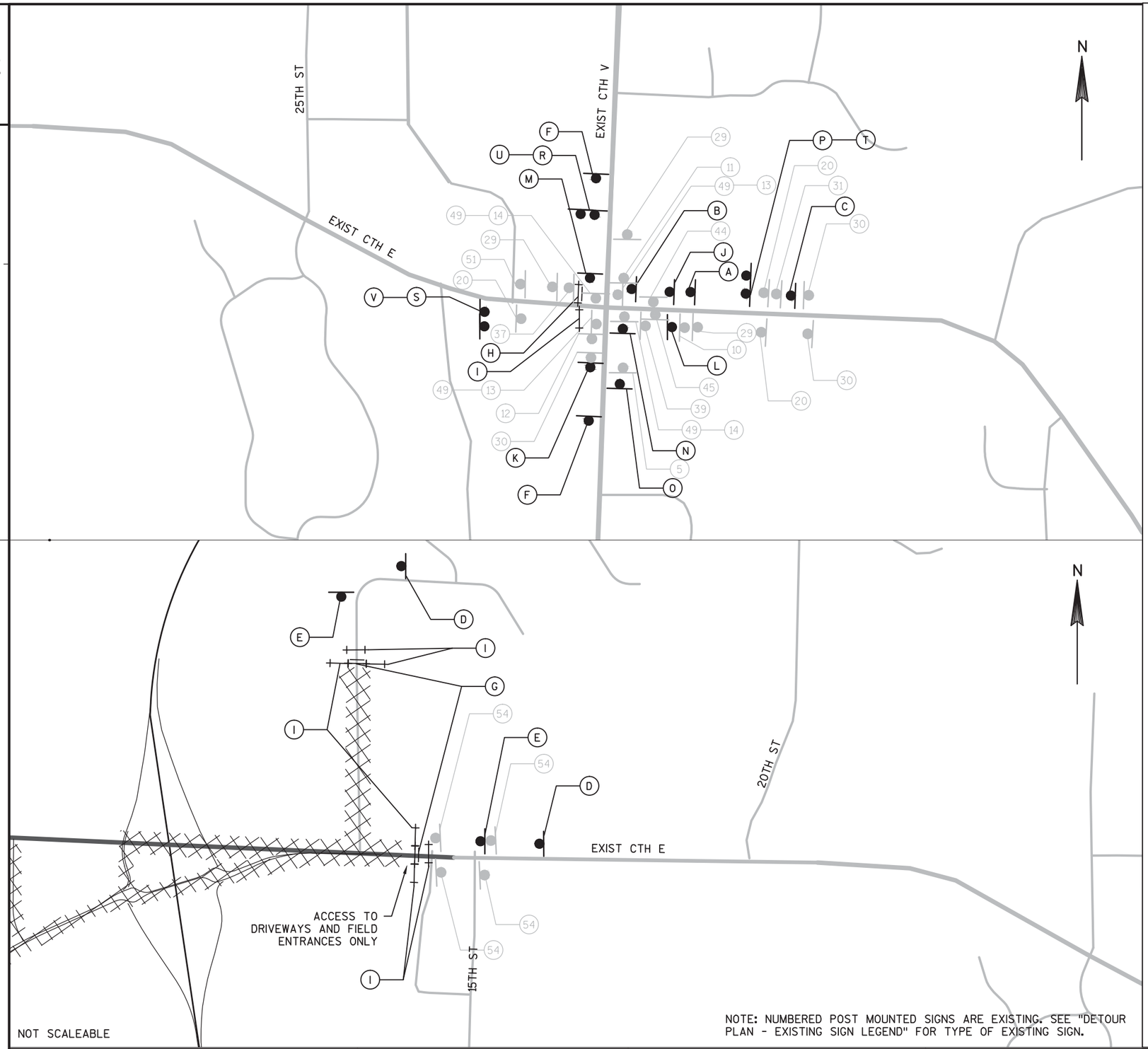
SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

MAINTAIN A MINIMUM OF 200' SPACING BETWEEN DETOUR SIGNS AND EXISTING SIGNS. ANY DETOUR SIGNS LOCATED CLOSER THAN 200' TO EXISTING SIGNS MUST BE APPROVED BY THE ENGINEER.

PROJECT NO: 8110-02-72	HWY: STH 35	COUNTY: ST CROIX	DETOUR PLAN - INTERSECTION 1 DETAIL - CTH E DETOUR - S3	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\027001_DT_72.DWG PLOT DATE : 7/17/2014 3:02 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : PLOT SCALE : 0.002305
WISDOT/CADDS SHEET 42



NOTE: NUMBERED POST MOUNTED SIGNS ARE EXISTING. SEE "DETOUR PLAN - EXISTING SIGN LEGEND" FOR TYPE OF EXISTING SIGN.

WORK ZONE

DIRECTION OF TRAFFIC

INSTALL POST MOUNTED SIGN

EXISTING SIGN TO REMAIN

A — DETOUR M4-8 24" X 12" / EAST M3-2 24"X12" / E M1-6 24"X24" / M05-1L 21"X21"

B — DETOUR M4-8 24" X 12" / EAST M3-2 24"X12" / E M1-6 24"X24" / M06-1L 21"X21"

C — DETOUR AHEAD W20-2

D — ROAD CLOSED 1000 FT W20-3-C

E — ROAD CLOSED 500 FT W20-3-D

F — DETOUR NEXT 4.5 MILES G20-51 60"X24"

J — WEST M3-4 24"X12" / E M1-6 24"X24" / DETOUR AHEAD W20-2

K — DETOUR M4-8 24" X 12" / WEST M3-4 24"X12" / E M1-6 24"X24"

L — M4-8A 24"X18" END DETOUR / E M1-6 24"X24"

M — DETOUR M4-8 24" X 12" / WEST M3-4 24"X12" / EAST M3-2 24"X12" / E M1-6 24"X24" 24"X24" / M06-1 21"X21" / M06-1R 21"X21"

N — EAST M3-2 24"X12" / E M1-6 24"X24" / M06-1L 21"X21"

O — WEST M3-4 24"X12" / E M1-6 24"X24" / M05-1R 21"X21"

G — R11-2 48"X30" ROAD CLOSED / WL / TYPE III BARRICADE

H — R11-3 60"X30" ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY / WL / TYPE III BARRICADE

I — WL / TYPE III BARRICADE

P — HOULTON / STILLWATER

R — HOULTON / STILLWATER

S — Houlton / Stillwater

T — M4-5 24"X12" TO 35 / M4-5 24"X12" TO 64 / M1-6 24"X24" 24"X24" / M06-1L 21"X21" / M06-1L 21"X21"

U — M4-5 24"X12" TO 35 / M4-5 24"X12" TO 64 / M1-6 24"X24" 24"X24" / M06-1 21"X21" / M06-1 21"X21"

V — M4-5 24"X12" TO 35 / M4-5 24"X12" TO 64 / M1-6 24"X24" 24"X24" / M06-1R 21"X21" / M06-1R 21"X21"

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

SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

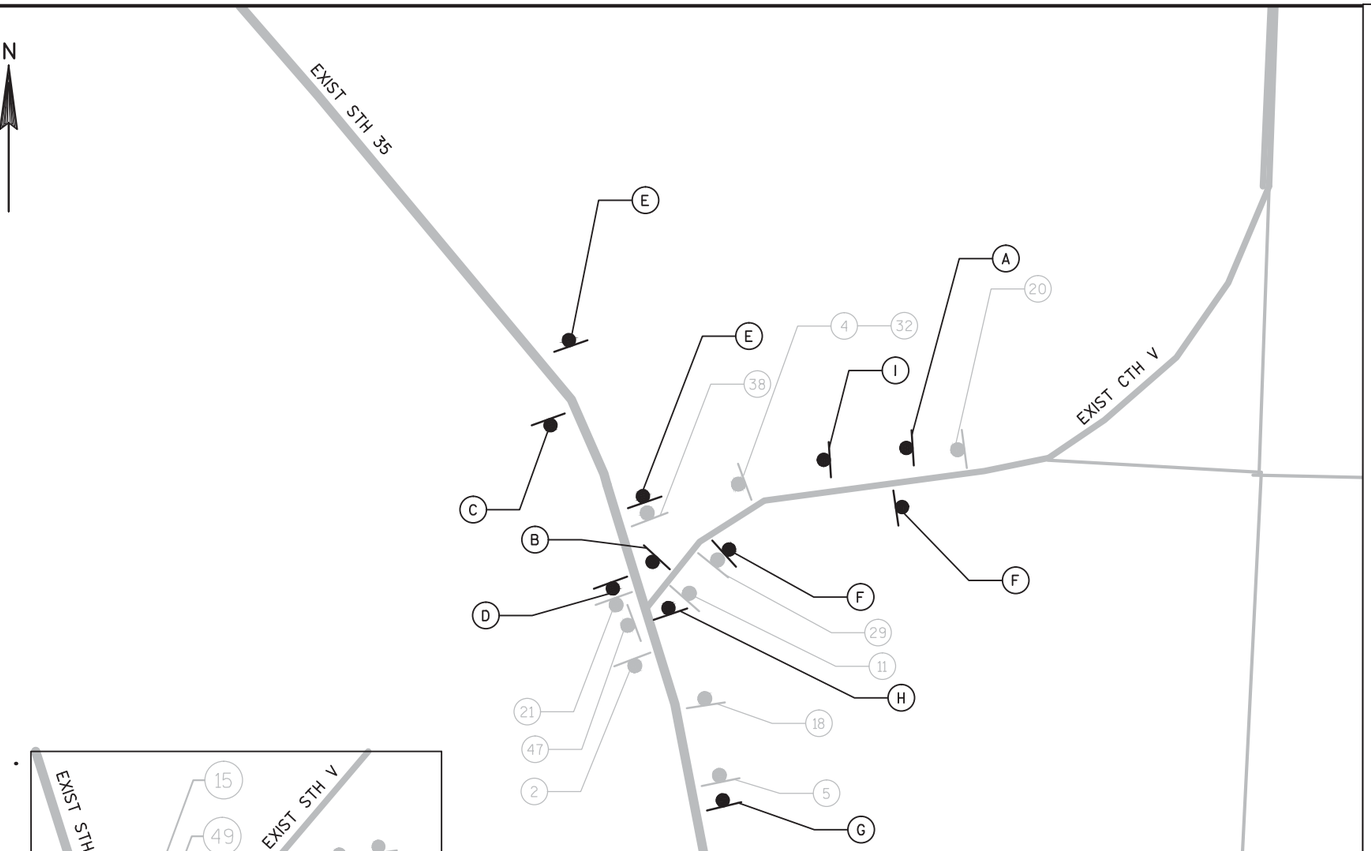
ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

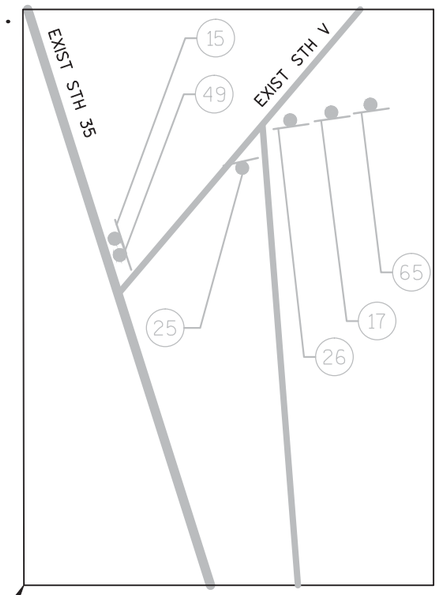
MAINTAIN A MINIMUM OF 200' SPACING BETWEEN DETOUR SIGNS AND EXISTING SIGNS. ANY DETOUR SIGNS LOCATED CLOSER THAN 200' TO EXISTING SIGNS MUST BE APPROVED BY THE ENGINEER.

2

PROJECT NO: 8110-02-72	HWY: STH 35	COUNTY: ST CROIX	DETOUR PLAN - INTERSECTION 2 DETAIL - CTH E DETOUR - S3	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\027001_DT_72.DWG PLOT DATE : 7/17/2014 3:02 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : PLOT SCALE : 1" = 1000'_XREF
WISDOT/CADDS SHEET 42





EXISTING SIGNS IN STH 35/CTH V TURNING LANE SHOWN. ALL DETOUR SIGNS SHOULD BE PLACED ON STH 35.

NOT SCALEABLE

NOTE: NUMBERED POST MOUNTED SIGNS ARE EXISTING. SEE "DETOUR PLAN - EXISTING SIGN LEGEND" FOR TYPE OF EXISTING SIGN.

WORK ZONE

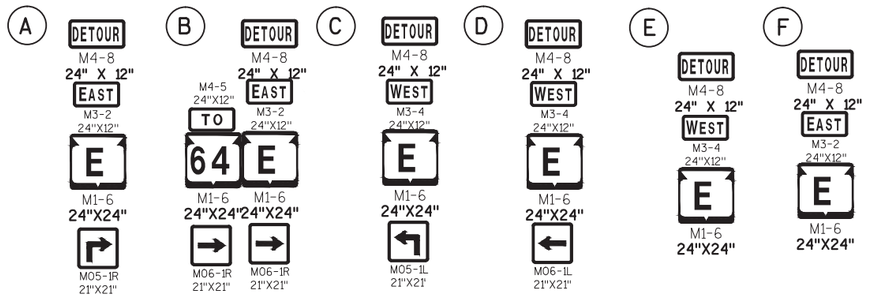
TYPE III BARRICADE WITH SIGN

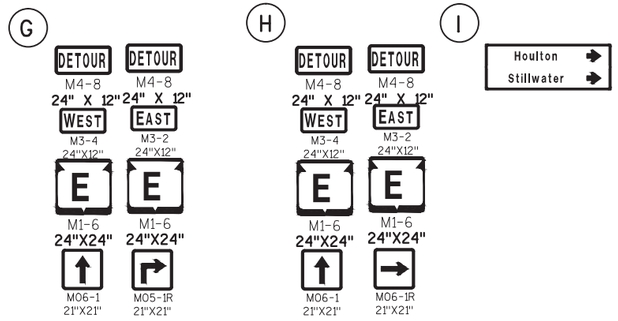
DIRECTION OF TRAFFIC

WL — TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)

INSTALL POST MOUNTED SIGN

EXISTING SIGN TO REMAIN





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

SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

MAINTAIN A MINIMUM OF 200' SPACING BETWEEN DETOUR SIGNS AND EXISTING SIGNS. ANY DETOUR SIGNS LOCATED CLOSER THAN 200' TO EXISTING SIGNS MUST BE APPROVED BY THE ENGINEER.

2

PROJECT NO: 8110-02-72	HWY: STH 35	COUNTY: ST CROIX	DETOUR PLAN - INTERSECTION 3 DETAIL - CTH E DETOUR - S3	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\027001_DT_72.DWG PLOT DATE : 7/17/2014 3:02 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : PLOT SCALE : 0.002338
WISDOT/CADDS SHEET 42

(1)
ALTERNATE
M4-1
24"X12"
WEST
M3-4
24"X12"
64
M1-6
24"X24"
SOUTH
M3-3
24"X12"
35
M1-6
24"X24"

(2)
ALTERNATE
M4-1
24"X12"
SOUTH
M3-3
24"X12"
35
M1-6
24"X24"
WEST
M3-4
24"X12"
64
M1-6
24"X24"

(3)
ALTERNATE
M4-1
24"X12"
WEST
M3-4
24"X12"
64
M1-6
24"X24"

(4)
JCT
M2-1
21"X15"
35
M1-6
24"X24"

(5)
JCT
M2-1
21"X15"
COUNTY
V
M1-5A
24"X24"

(6)
JCT
M2-1
21"X15"
COUNTY
E
M1-5A
24"X24"

(7)
JCT
M2-1
21"X15"
64
M1-6
24"X24"
END
M4-6
24"X12"
COUNTY
E
M1-5A
24"X24"

(10)
EAST
M3-2
24"X12"
COUNTY
E
M1-5A
24"X24"

(11)
NORTH
M3-1
24"X12"
COUNTY
V
M1-5A
24"X24"

(12)
SOUTH
M3-3
24"X12"
COUNTY
V
M1-5A
24"X24"

(13)
COUNTY
V
M1-5A
24"X24"
M6-4
21"X21"

(14)
COUNTY
E
M1-5A
24"X24"
M6-4
21"X21"

(15)
35
M1-6
24"X24"
M6-4
21"X21"

(16)
64
M1-6
24"X24"
M6-4
21"X21"

(17)
COUNTY
V
M1-5A
24"X24"
M6-1
21"X21"

(18)
COUNTY
V
M1-5A
24"X24"
M6-2
21"X21"

(19)
35
M1-6
24"X24"
M6-4
21"X21"
COUNTY
E
M1-5A
24"X24"
M6-1
21"X21"

(20)
W03-1

(21)
COUNTY
V
M1-5A
24"X24"
M6-1
21"X21"
TO RUSTIC ROAD
1 MILE
MR5-54L
30"X12"

(22)
S1-1
36"X36"
AHEAD
S16-9P
24"X12"

(23)
S1-1
36"X36"

(24)
SPEED
LIMIT
35
R2-1
24"X30"

(25)
DO NOT
ENTER
R5-1
30"X30"

(26)
YIELD
R1-2
36" X 31"

(27)
NO
SHOULDER
W8-9
30"X30"

(28)
HOULTON
UNINCORPORATED
I2-3
54"X24"

(29)
ADOPT-A-HIGHWAY
SPONSOR
SPONSOR
NAME
I55-56
30"X36"

(30)
NO
PASSING
ZONE
W14-3
48" X 36"

(31)
W11-8
36" X 36"

(32)
END
M4-6
24"X12"
COUNTY
V
M1-5A
24"X24"

(33)
W7-1
30"X30"
VERY
DANGEROUS
HILL
W7-6
SIZE
BIKE ROUTE
D11-1
24"X18"

(34)
RIVER
BRIDGE
13'-2"
WEIGHT LIMIT
2 AXLE VEHICLES 28 TONS
3 OR MORE AXLE VEHICLES 40 TONS
COMBINATION VEHICLES 40 TONS
R12-56
54"X42"
1/2
MILE

(36)
EAST
M3-2
24"X12"
COUNTY
E
M1-5A
24"X24"
BIKE ROUTE
D11-1
24"X18"

(37)
WEST
M3-4
24"X12"
COUNTY
E
M1-5A
24"X24"
BIKE ROUTE
D11-1
24"X18"

(38)
NORTH
M3-1
24"X12"
35
M1-6
24"X24"

(39)
Willow River
State Park
D7-51
54"X36"
BIKE ROUTE
D11-1
24"X18"

(40)
W8-5
30" X 30"
SLIPPERY
WHEN
WET

(41)
TRUCKS OVER
55 FT LENGTH
USE 35 SOUTH

(42)
3'-2"
W12-2
36" X 36"
1/2
MILE

(43)
AXLE
WEIGHT
LIMIT
4 TONS
R12-2
24"X30"
500 FT
AHEAD

(44)
NO
PARKING
HERE TO
CORNER
R7-51L
18"X24"

(45)
NO
PARKING
HERE TO
CORNER
R7-51R
18"X24"

(46)
AXLE
WEIGHT
LIMIT
4 TONS
R12-2
24"X30"

(47)
M6-4
21"X21"

(48)
BIKE ROUTE
D11-1
24"X18"

(49)
STOP
R1-1
30" X 30"

(50)
W8-5
30" X 30"

(51)
W1-2R
30" X 30"

(52)
NEIGHBORHOOD
WATCH
COMMUNITY
D12-50
36"X36"

(53)
COUNTY
V
M1-5A
24"X24"
M6-1
21"X21"

(54)
SPEED
LIMIT
45
R2-1
24"X30"

(55)
ST JOSEPH
TOWNSHIP
ALL PERMITS
ARE REQUIRED

(56)
NORTH
M3-1
24"X12"
35
M1-6
24"X24"
M5-1L
21"X21"

(59)
SOUTH
M3-3
24"X12"
35
M1-6
24"X24"
M5-1R
21"X21"

(60)
SCHOOL
SPEED
LIMIT
15
WHEN
CHILDREN
ARE PRESENT
S4-51
24"X48"

(61)
NORTH
M3-1
24"X12"
35
M1-6
24"X24"
M5-1R
21"X21"

(62)
D1-56-L
60"X12"
Stillwater
Somerset
D1-56-R
60"X12"

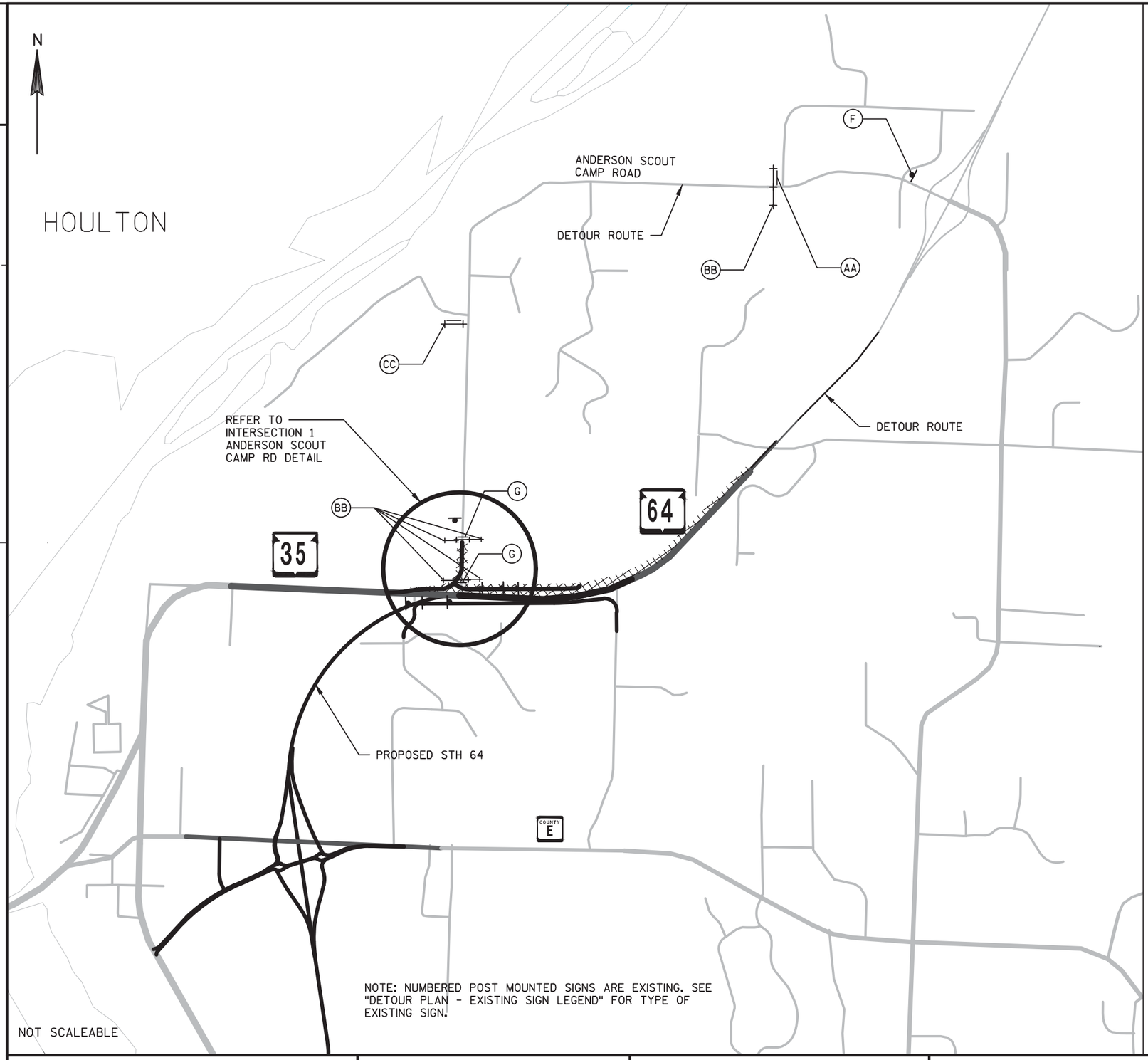
(63)
WEST
M3-4
24"X12"
64
M1-6
24"X24"
M6-1
21"X21"
NORTH
M3-1
24"X12"
35
M1-6
24"X24"
M6-1
21"X21"
EAST
M3-2
24"X12"
64
M1-6
24"X24"
M6-1
21"X21"

(64)
SOUTH
M3-3
24"X12"
35
M1-6
24"X24"

(65)
TO RUSTIC ROAD
1 MILE
MR5-54R
30"X12"

PROJECT NO: 8110-02-72	HWY: STH 35	COUNTY: ST CROIX	DETOUR PLAN - EXISTING SIGN LEGEND - CTH E DETOUR	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\027001_DT_72.DWG PLOT DATE : 7/17/2014 3:02 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : PLOT SCALE : ********
WISDOT/CADDS SHEET 42



NOTE: NUMBERED POST MOUNTED SIGNS ARE EXISTING. SEE "DETOUR PLAN - EXISTING SIGN LEGEND" FOR TYPE OF EXISTING SIGN.

NOT SCALEABLE

WORK ZONE

INSTALL DETOUR SIGN

EXISTING SIGN

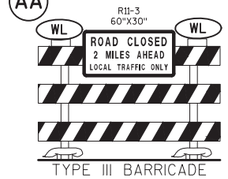
TYPE III BARRICADE WITH SIGN

TYPE III BARRICADE

DIRECTION OF TRAFFIC

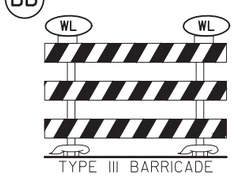
WL TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)

AA



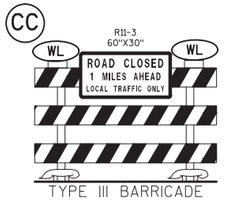
TYPE III BARRICADE

BB



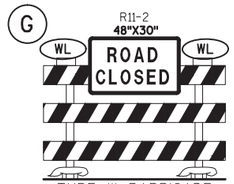
TYPE III BARRICADE

CC



TYPE III BARRICADE

G



TYPE III BARRICADE

F

W14-2
30"X30"

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

SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

SEE S.D.D. "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL B FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

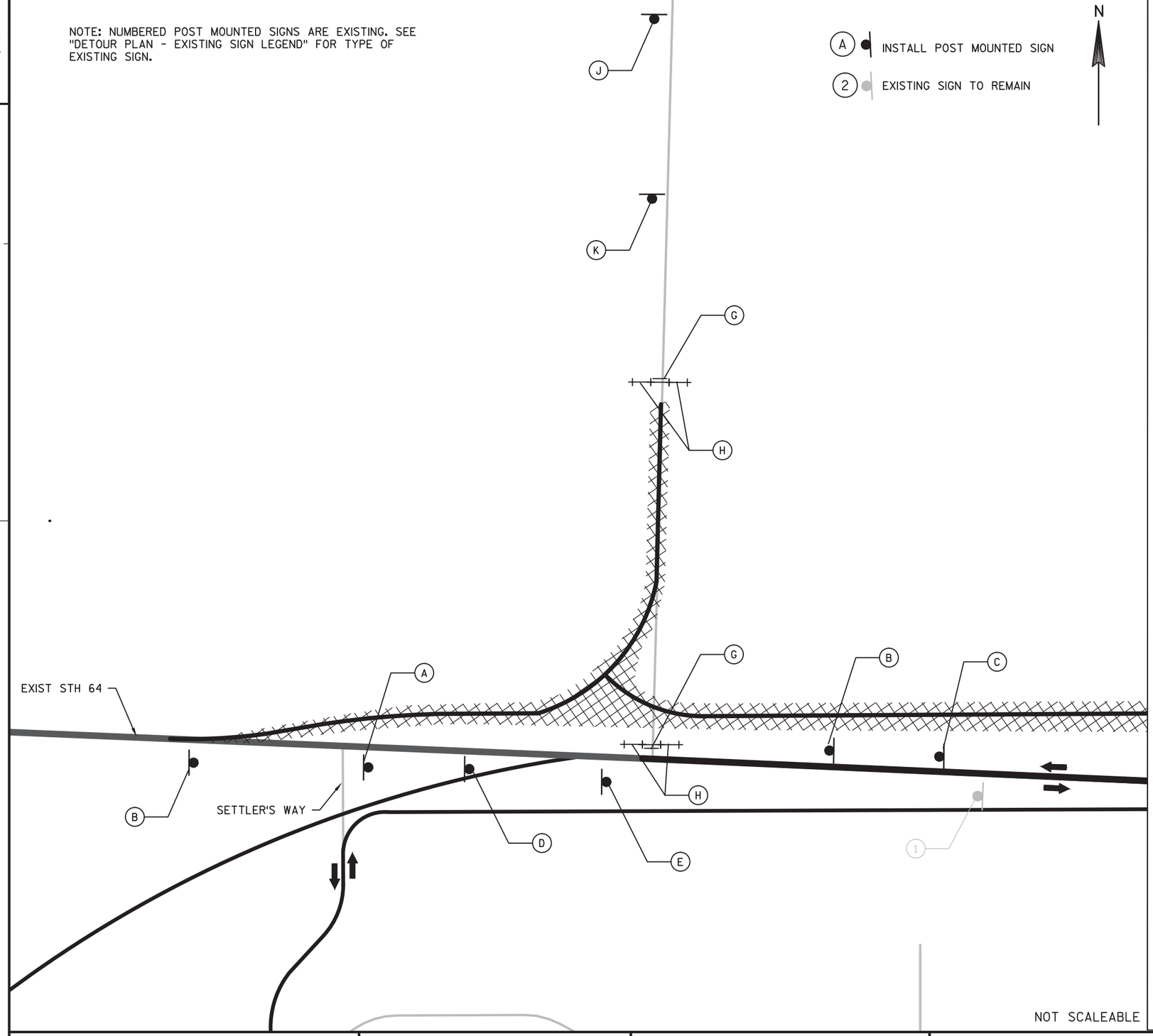
MAINTAIN A MINIMUM OF 200' SPACING BETWEEN DETOUR SIGNS AND EXISTING SIGNS. ANY DETOUR SIGNS LOCATED CLOSER THAN 200' TO EXISTING SIGNS MUST BE APPROVED BY THE ENGINEER.

PROJECT NO: 8110-02-72	HWY: STH 35	COUNTY: ST CROIX	DETOUR PLAN OVERVIEW - ANDERSEN SCOUT CAMP RD DETOUR	SHEET	E

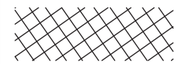
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\027002_DT_72.DWG PLOT DATE : 7/17/2014 2:34 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : PLOT SCALE : 1 IN:2000 FT
WISDOT/CADDS SHEET 42

2

NOTE: NUMBERED POST MOUNTED SIGNS ARE EXISTING. SEE "DETOUR PLAN - EXISTING SIGN LEGEND" FOR TYPE OF EXISTING SIGN.



NOT SCALEABLE


WORK ZONE

TYPE III BARRICADE WITH SIGN

DIRECTION OF TRAFFIC

TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)

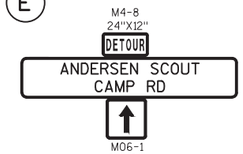
A COVER EXISTING SIGN

B

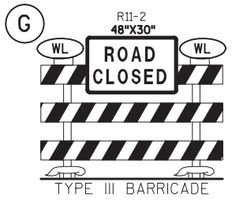
C COVER EXISTING SIGN

D

E

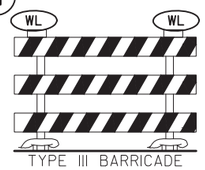


G



TYPE III BARRICADE

H



TYPE III BARRICADE

J

K

1

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

SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

SEE S.D.D. "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL B FOR GUIDANCE ON SIGN LAYOUT AND SPACING.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

MAINTAIN A MINIMUM OF 200' SPACING BETWEEN DETOUR SIGNS AND EXISTING SIGNS. ANY DETOUR SIGNS LOCATED CLOSER THAN 200' TO EXISTING SIGNS MUST BE APPROVED BY THE ENGINEER.

2

PROJECT NO: 8110-02-72	HWY: STH 35	COUNTY: ST CROIX	DETOUR PLAN - INT 1 DETAIL - ANDERSEN SCOUT CAMP DETOUR	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\027002_DT_72.DWG PLOT DATE : 7/17/2014 2:34 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : PLOT SCALE : 1 IN:300 FT
WISDOT/CADDS SHEET 42

LINE	ROAD NAME
A	STH 64 E.B.
B	STH 64 W.B.
C	SW RAMP
D	SE RAMP
E	NW RAMP
F	NE RAMP
G	STH 35 N.B. – CTH E E.B.
H	STH 35 S.B. – CTH E W.B.
J	STH 35 N.B.
K	STH 35 S.B.
N	SCHOOL ROAD
P	THELEN FARM TRAIL
R	F.E. – SHARED DRIVEWAY (DURAND/SEVERSON)
S	SHARED USE PATH
AA	STH 35/MAIN ST RAB CIRCLE
BB	STH 35 NB ISLAND
CC	STH 35 NB RT TURN
DD	STH 35 WEST TERM RAB CIRCLE
EE	STH 35 NW RAMP RT TURN
FF	STH 35 NB RT TURN TO SW RAMP
GG	STH 35 EAST TERM RAB CIRCLE
HH	SE RAMP RT TURN

LINE	ROAD NAME
QQ	P.E. – CTH E (RENEAU)
RR	P.E. – CTH E (FAGERLUND)
SS	P.E. – CTH E (PLAHN)
TT	P.E. – 13TH ST (GILLSTROM)
UU	P.E. – CTH E (SEVERSON)
VV	P.E. – SCHOOL RD

1004
878.348
NEW CP
N: 373527.157
E: 504428.532

t124
879.881
WISCON 83 (91)
N: 373575.538
E: 504309.173

1005
874.028
NEW CP
N: 371065.399
E: 502796.338

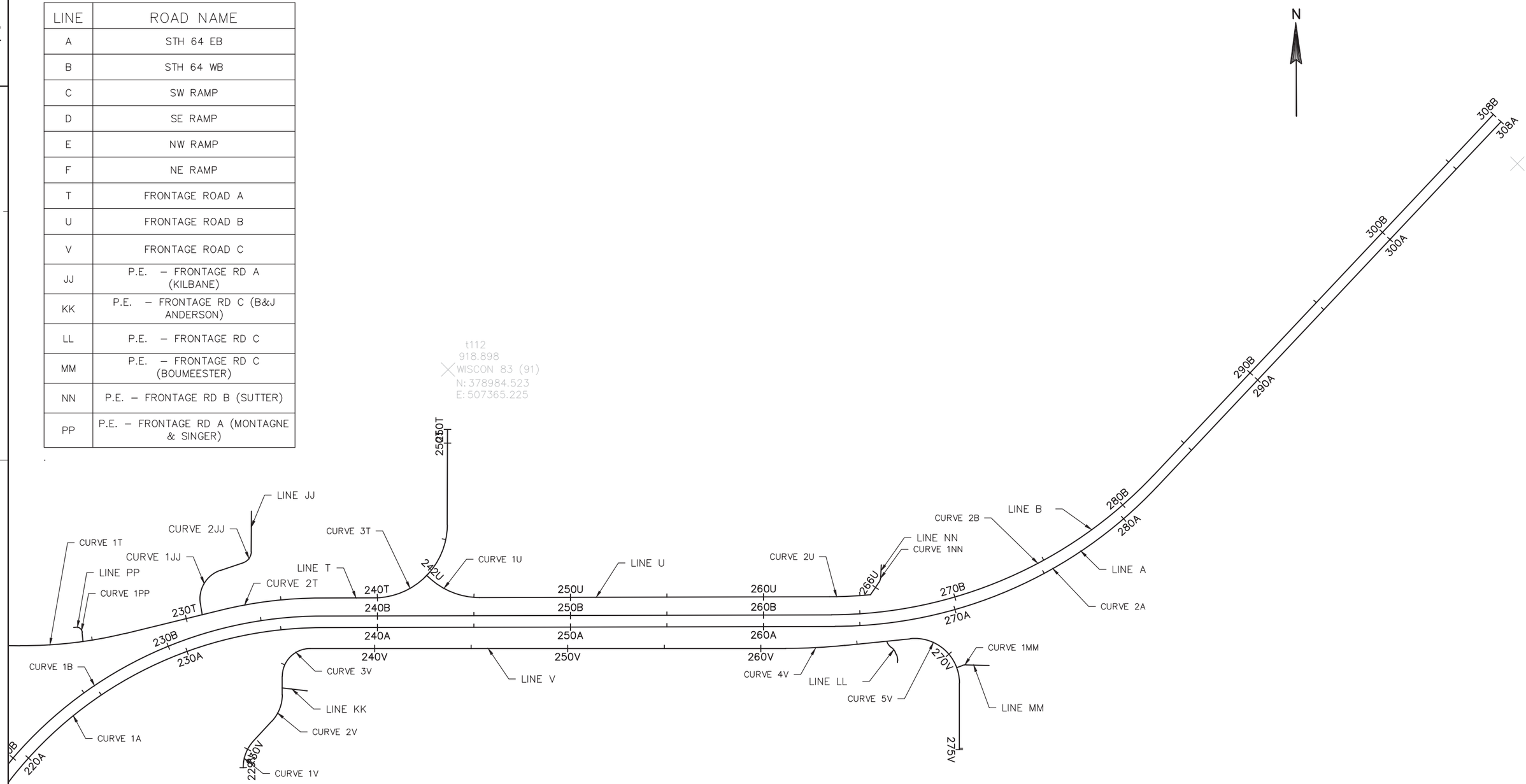
t121
918.566
WISCON 83 (91)
N: 373578.502
E: 507339.447

1003
922.142
NEW CP
N: 373532.230
E: 507882.839

0 250 500 750 FEET
SCALE

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN: ALIGNMENT DETAILS	SHEET 325 E

LINE	ROAD NAME
A	STH 64 EB
B	STH 64 WB
C	SW RAMP
D	SE RAMP
E	NW RAMP
F	NE RAMP
T	FRONTAGE ROAD A
U	FRONTAGE ROAD B
V	FRONTAGE ROAD C
JJ	P.E. – FRONTAGE RD A (KILBANE)
KK	P.E. – FRONTAGE RD C (B&J ANDERSON)
LL	P.E. – FRONTAGE RD C
MM	P.E. – FRONTAGE RD C (BOUMEESTER)
NN	P.E. – FRONTAGE RD B (SUTTER)
PP	P.E. – FRONTAGE RD A (MONTAGNE & SINGER)



PROJECT NO: 8110–02–72	HWY: STH 64	COUNTY: ST. CROIX	PLAN: ALIGNMENT DETAILS	SHEET 326 E

NOTICE:
TO ENSURE PROPER SITE CALIBRATION OF SURVEY EQUIPMENT AND GPS MACHINE CONTROL EQUIPMENT TO THE PROJECT PLAN AND PREVIOUS PROJECT GRADING BY OTHERS, ONLY POINTS 1001-1006 OF THE CONTROL POINTS PLAN SHEET SHALL BE INCLUDED. PRIOR TO CONDUCTING EACH SITE CALIBRATION, THE CONTRACTOR SHALL CONFIRM WHICH CONTROL POINTS TO USE WITH THE PROJECT ENGINEER, MIKE PILLER OR DENNIS DANOWSKI.

MIKE PILLER, TECHNICAL SERVICES SUPERVISOR, 715-395-3021
DENNIS DANOWSKI, SURVEYOR, 715-635-4994

Project information		Coordinate System	
Name:	C:\Projects\Nordin\Stillwater\TBC \Stillwater.vce	Name:	WI County Coordinate System
Size:	2 MB	Datum:	WCCS St. Croix
Modified:	10/26/2012 1:59:50 PM (UTC:-5)	Zone:	St. Croix
Time zone:	Central Standard Time	Geoid:	Wisconsin GEOID09
Reference number:		Vertical datum:	NAVD88
Description:			

Point List

ID	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Feature Code
0101 E FARMINGTON	422743.009	530768.853	941.760	COUNTY HARN 83 (91)
0102 STAR PRAIRIE W	412297.440	550887.982	952.082	COUNTY HARN 83 (91)
0105 BURSCH 1934 (RM)	385546.617	513413.617	1037.822	NO COORDS AVAIL
0106 ST JOE N	375125.970	543943.728	959.808	COUNTY HARN 83 (91)
0107 ST JOE W	361749.722	513443.075	908.647	COUNTY HARN 83 (91)
1001	377504.570	504035.251	866.523	NEW CP
1002	376216.903	510103.495	909.969	NEW CP
1003	373532.230	507882.839	922.142	NEW CP
1004	373527.157	504428.532	878.348	NEW CP
1005	371065.399	502796.338	874.028	NEW CP
1006	367180.788	506721.279	877.052	NEW CP
3665 OSGOOD	364371.488	498037.960	903.148	WISCON 83 (91)
3736 SHELDON	381125.503	502255.901	733.686	MNDT 83 (96)
4293 SOMERSET S GPS	380072.692	512900.816	930.658	WIHMP ELEV ONLY
4310 6N02	371596.908	515223.328	885.500	WIHMP ELEV ONLY
8888 BUCKHORN RESET	369750.294	503681.378	873.297	NO COORDS AVAIL
9999 CARLSON	368774.341	504900.778	869.549	NO COORDS AVAIL
T074	380229.775	513792.429	940.762	WISCON 83 (91)
T079	376445.364	510024.461	912.782	WISCON 83 (91)
T100	365848.169	508867.751	854.160	WISCON 83 (91)
T102	376050.523	502036.272	856.878	WISCON 83 (91)
T112	378984.523	507365.225	918.898	WISCON 83 (91)
T118	373581.768	510247.589	918.225	WISCON 83 (91)
T121	373578.502	507339.447	918.566	WISCON 83 (91)
T124	373575.538	504309.173	879.881	WISCON 83 (91)
T135	369433.457	504108.873	868.914	WISCON 83 (91)

LINE A - STH 64 E.B.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	123+00.000	367715.875	504395.719
End:	136+30.454	368845.059	505099.318
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	1330.454	Course:	N 31° 55' 37.9445" E
Curve Point Data:			
Description	**Station**	**Northing**	**Easting**
PC:	136+30.454	368845.059	505099.318
RP:		370057.074	503154.195
PT:	152+43.368	370391.7	505421.464
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	40° 19' 22.3401"	Type:	LEFT
Radius:	2291.83		
Length:	1612.914	Tangent:	841.478
Mid-Ord:	140.431	External:	149.598
Chord:	1579.834	Course:	N 11° 45' 56.7744" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	152+43.368	370391.7	505421.464
End:	202+00.663	375295.869	504697.659
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	4957.295	Course:	N 08° 23' 44.3956" W
Curve Point Data: CURVE 1A			
Description	**Station**	**Northing**	**Easting**
PC:	202+00.663	375295.869	504697.659
RP:		375595.186	506725.69
PT:	237+08.403	377645.146	506712.906
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	98° 02' 18.1378"	Type:	RIGHT
Radius:	2050		
Length:	3507.739	Tangent:	2359.851
Mid-Ord:	705.597	External:	1075.923
Chord:	3095.21	Course:	N 40° 37' 24.6733" E

LINE A - STH 64 E.B. - CONT.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	237+08.403	377645.146	506712.906
End:	263+70.679	377661.748	509375.13
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	2662.276	Course:	N 89° 38' 33.7422" E
Curve Point Data: CURVE 2A			
Description	**Station**	**Northing**	**Easting**
PC:	263+70.679	377661.748	509375.13
RP:		379958.73	509360.806
PT:	282+37.223	378389.681	511038.429
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	46° 33' 28.9265"	Type:	LEFT
Radius:	2297.027		
Length:	1866.544	Tangent:	988.259
Mid-Ord:	186.998	External:	203.571
Chord:	1815.612	Course:	N 66° 21' 49.2790" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	282+37.223	378389.681	511038.429
End:	305+20.549	380057.297	512598.12
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	2283.326	Course:	N 43° 05' 04.8157" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	305+20.549	380057.297	512598.12
End:	308+38.071	380289.195	512815.014
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	317.522	Course:	N 43° 05' 06.2966" E

LINE B - STH 64 W.B.

STATION EQUATIONS

INTERNAL STATION	BACK STATION	AHEAD STATION	
152+15.44	152+15.44	152+43.37	
237+83.90	238+11.83	237+08.40	
282+93.81	282+18.31	282+67.42	

TANGENT DATA

DESCRIPTION	PT STATION	NORTHING	EASTING
START:	126+21.690	367996.303	504553.959
END:	135+54.225	368787.764	505047.123

TANGENT DATA

PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	932.535	COURSE:	N 31° 55' 38.1443" E

CURVE POINT DATA

DESCRIPTION	STATION	NORTHING	EASTING
PC:	135+54.225	368787.764	505047.123
RP:		369999.781	503102
PT:	151+67.142	370334.408	505369.27

CIRCULAR CURVE DATA

PARAMETER	VALUE	PARAMETER	VALUE
DELTA:	40° 19' 22.6397"	TYPE:	LEFT
RADIUS:	2291.83		
LENGTH:	1612.917	TANGENT:	841.48
MID-ORD:	140.432	EXTERNAL:	149.599
CHORD:	1579.837	COURSE:	N 11° 45' 56.8244" E

TANGENT DATA

DESCRIPTION	PT STATION	NORTHING	EASTING
START:	151+67.142	370334.408	505369.27
END:	152+15.437	370382.185	505362.218

TANGENT DATA

PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	48.295	COURSE:	N 08° 23' 44.4954" W

TANGENT DATA

DESCRIPTION	PT STATION	NORTHING	EASTING
START:	152+15.437	370382.185	505362.218
END:	202+01.422	375287.106	504638.298

TANGENT DATA

PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	4958.055	COURSE:	N 08° 23' 44.5531" W

LINE B - STH 64 W.B. - CONT.

CURVE POINT DATA: CURVE 1B

DESCRIPTION	STATION	NORTHING	EASTING
PC:	202+01.422	375287.106	504638.298
RP:		375595.185	506725.685
PT:	238+11.830	377705.144	506712.528

CIRCULAR CURVE DATA

PARAMETER	VALUE	PARAMETER	VALUE
DELTA:	98° 02' 18.3878"	TYPE:	RIGHT
RADIUS:	2110		
LENGTH:	3610.407	TANGENT:	2428.923
MID-ORD:	726.25	EXTERNAL:	1107.416
CHORD:	3185.803	COURSE:	N 40° 37' 24.6408" E

TANGENT DATA

DESCRIPTION	PT STATION	NORTHING	EASTING
START:	238+11.830	377705.144	506712.528
END:	263+53.058	377721.635	509357.135

TANGENT DATA

PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	2644.658	COURSE:	N 89° 38' 33.8347" E

CURVE POINT DATA: CURVE 2B

DESCRIPTION	STATION	NORTHING	EASTING
PC:	263+53.058	377721.635	509357.135
RP:		380018.786	509342.811
PT:	282+68.850	378449.622	511020.557

CIRCULAR CURVE DATA

PARAMETER	VALUE	PARAMETER	VALUE
DELTA:	46° 33' 29.0900"	TYPE:	LEFT
RADIUS:	2297.196		
LENGTH:	1866.683	TANGENT:	988.333
MID-ORD:	187.012	EXTERNAL:	203.586
CHORD:	1815.748	COURSE:	N 66° 21' 49.2897" E

TANGENT DATA

DESCRIPTION	PT STATION	NORTHING	EASTING
START:	282+68.850	378449.622	511020.557
END:	306+64.025	380198.927	512656.649

TANGENT DATA

PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	2395.175	COURSE:	N 43° 05' 04.7447" E

TANGENT DATA

DESCRIPTION	PT STATION	NORTHING	EASTING
START:	306+64.025	380198.927	512656.649
END:	308+38.266	380326.395	512775.442

TANGENT DATA

PARAMETER	VALUE	PARAMETER	VALUE
LENGTH:	174.241	COURSE:	N 42° 58' 56.2949" E

LINE C - STH 35 SW RAMP			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	151+47.350	370284.638	505351.975
End:	154+93.947	370625.63	505289.899
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	346.597	Course:	N 10° 19' 03.0218" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	154+93.947	370625.63	505289.899
End:	163+93.947	371515.985	505158.491
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	900	Course:	N 08° 23' 44.4167" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	163+93.947	371515.985	505158.491
End:	167+23.270	371840.753	505103.902
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	329.323	Course:	N 09° 32' 29.6223" W
Curve Point Data: CURVE 1C			
Description	**Station**	**Northing**	**Easting**
PC:	167+23.270	371840.753	505103.902
RP:		371603.315	503691.328
PT:	173+35.005	372404.527	504878.678
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	24° 28' 10.1911"	Type:	LEFT
Radius:	1432.39		
Length:	611.736	Tangent:	310.603
Mid-Ord:	32.533	External:	33.289
Chord:	607.097	Course:	N 21° 46' 34.7179" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	173+35.005	372404.527	504878.678
End:	177+23.753	372726.771	504661.231
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	388.748	Course:	N 34° 00' 39.8134" W

LINE C - STH 35 SW RAMP - CONT.			
Curve Point Data: CURVE 2C			
Description	**Station**	**Northing**	**Easting**
PC:	177+23.753	372726.771	504661.231
RP:		374404.83	507148.02
PT:	181+31.384	373079.097	504456.843
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	07° 47' 06.6920"	Type:	RIGHT
Radius:	3000		
Length:	407.632	Tangent:	204.13
Mid-Ord:	6.921	External:	6.937
Chord:	407.318	Course:	N 30° 07' 06.4674" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	181+31.384	373079.097	504456.843
End:	181+41.904	373088.534	504452.195
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	10.519	Course:	N 26° 13' 33.1214" W

2

LINE D - STH 35 SE RAMP			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	165+16.650	371654.837	505259.297
End:	170+48.344	372185.349	505223.858
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	531.694	Course:	N 03° 49' 18.2924" W
Curve Point Data: CURVE 1D			
Description	**Station**	**Northing**	**Easting**
PC:	170+48.344	372185.349	505223.858
RP:		372280.821	506653.063
PT:	174+90.950	372624.498	505262.513
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	17° 42' 15.4609"	Type:	RIGHT
Radius:	1432.39		
Length:	442.606	Tangent:	223.081
Mid-Ord:	17.062	External:	17.267
Chord:	440.847	Course:	N 05° 01' 49.4381" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	174+90.950	372624.498	505262.513
End:	177+11.755	372838.853	505315.492
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	220.805	Course:	N 13° 52' 57.1686" E
Curve Point Data: CURVE 2D			
Description	**Station**	**Northing**	**Easting**
PC:	177+11.755	372838.853	505315.492
RP:		372945.383	504884.461
PT:	179+35.323	373060.057	505313.397
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	28° 51' 00.8860"	Type:	LEFT
Radius:	444		
Length:	223.568	Tangent:	114.207
Mid-Ord:	13.998	External:	14.453
Chord:	221.214	Course:	N 00° 32' 33.2744" W

LINE D - STH 35 SE RAMP - CONT.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	179+35.323	373060.057	505313.397
End:	180+41.724	373162.848	505285.916
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	106.401	Course:	N 14° 58' 03.7174" W
Curve Point Data: CURVE 3D			
Description	**Station**	**Northing**	**Easting**
PC:	180+41.724	373162.848	505285.916
RP:		373192.55	505397.015
PT:	181+76.078	373283.134	505326.167
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	66° 56' 17.2491"	Type:	RIGHT
Radius:	115		
Length:	134.353	Tangent:	76.028
Mid-Ord:	19.069	External:	22.859
Chord:	126.842	Course:	N 18° 30' 04.9071" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	181+76.078	373283.134	505326.167
End:	181+94.756	373294.641	505340.879
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	18.678	Course:	N 51° 58' 13.5316" E

2

LINE E - STH 35 NW RAMP			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	180+62.640	373215.262	504406.164
End:	180+78.684	373226.111	504417.983
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	16.044	Course:	N 47° 26' 58.8717" E
Curve Point Data: CURVE 1E			
Description	**Station**	**Northing**	**Easting**
PC:	180+78.684	373226.111	504417.983
RP:		373310.83	504340.216
PT:	182+09.955	373346.277	504449.617
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	65° 24' 09.0604"	Type:	LEFT
Radius:	115		
Length:	131.271	Tangent:	73.832
Mid-Ord:	18.228	External:	21.661
Chord:	124.26	Course:	N 14° 44' 54.3415" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	182+09.955	373346.277	504449.617
End:	183+07.065	373438.659	504419.684
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	97.11	Course:	N 17° 57' 10.1887" W
Curve Point Data: CURVE 2E			
Description	**Station**	**Northing**	**Easting**
PC:	183+07.065	373438.659	504419.684
RP:		373578.597	504851.579
PT:	186+34.866	373759.021	504434.97
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	41° 22' 09.1081"	Type:	RIGHT
Radius:	454		
Length:	327.801	Tangent:	171.413
Mid-Ord:	29.265	External:	31.282
Chord:	320.727	Course:	N 02° 43' 54.3654" E

LINE E - STH 35 NW RAMP - CONT.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	186+34.866	373759.021	504434.97
End:	189+14.218	374015.366	504545.987
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	279.352	Course:	N 23° 24' 58.9195" E
Curve Point Data: CURVE 3E			
Description	**Station**	**Northing**	**Easting**
PC:	189+14.218	374015.366	504545.987
RP:		374584.612	503231.567
PT:	195+95.169	374680.085	504660.772
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	27° 14' 17.2937"	Type:	LEFT
Radius:	1432.39		
Length:	680.951	Tangent:	347.036
Mid-Ord:	40.275	External:	41.44
Chord:	674.557	Course:	N 09° 47' 50.2726" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	195+95.169	374680.085	504660.772
End:	201+26.864	375210.597	504625.333
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	531.694	Course:	N 03° 49' 18.3742" W

2

LINE F - STH 35 NE RAMP			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	182+32.226	373430.063	505292.541
End:	186+05.710	373763.652	505124.587
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	373.484	Course:	N 26° 43' 27.1462" W
Curve Point Data: CURVE 1F			
Description	**Station**	**Northing**	**Easting**
PC:	186+05.710	373763.652	505124.587
RP:		375157.71	507893.449
PT:	195+35.173	374643.641	504836.37
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	17° 10' 43.7163"	Type:	RIGHT
Radius:	3100		
Length:	929.463	Tangent:	468.245
Mid-Ord:	34.77	External:	35.164
Chord:	925.986	Course:	N 18° 08' 05.2880" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	195+35.173	374643.641	504836.37
End:	198+33.913	374938.244	504786.83
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	298.74	Course:	N 09° 32' 43.4298" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	198+33.913	374938.244	504786.83
End:	201+34.969	375236.088	504742.969
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	301.056	Course:	N 08° 22' 38.2105" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	201+34.969	375236.088	504742.969
End:	201+99.999	375300.65	504735.187

LINE F - STH 35 NE RAMP - CONT.			
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	65.03	Course:	N 06° 52' 24.8860" W
Curve Point Data: CURVE 2F			
Description	**Station**	**Northing**	**Easting**
PC:	201+99.999	375300.65	504735.187
RP:		375897.309	509684.842
PT:	205+99.999	375699.269	504703.289
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	04° 35' 49.2179"	Type:	RIGHT
Radius:	4985.488		
Length:	400	Tangent:	200.107
Mid-Ord:	4.011	External:	4.014
Chord:	399.893	Course:	N 04° 34' 30.2771" W

LINE G - STH 35 N.B. - CTH E E.B.			
Curve Point Data: CURVE 1G			
Description	**Station**	**Northing**	**Easting**
PC:	5+64.772	371871.565	502420.791
RP:		371575.955	502824.046
PT:	6+58.460	371941.51	502482.916
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	10° 44' 08.9407"	Type:	RIGHT
Radius:	500		
Length:	93.688	Tangent:	46.981
Mid-Ord:	2.193	External:	2.202
Chord:	93.551	Course:	N 41° 36' 41.7811" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	6+58.460	371941.51	502482.916
End:	9+74.577	372157.184	502714.032
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	316.117	Course:	N 46° 58' 46.2514" E
Curve Point Data: CURVE 2G			
Description	**Station**	**Northing**	**Easting**
PC:	9+74.577	372157.184	502714.032
RP:		369372.387	505312.76
PT:	22+19.119	372843.926	503745.312
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	18° 43' 14.3742"	Type:	RIGHT
Radius:	3809		
Length:	1244.542	Tangent:	627.867
Mid-Ord:	50.717	External:	51.401
Chord:	1239.013	Course:	N 56° 20' 23.4383" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	22+19.119	372843.926	503745.312
End:	28+61.097	373108.108	504330.413
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	641.978	Course:	N 65° 42' 00.6227" E

LINE G - STH 35 N.B. - CTH E E.B. - CONT.			
Curve Point Data: CURVE 3G			
Description	**Station**	**Northing**	**Easting**
PC:	28+61.097	373108.108	504330.413
RP:		372996.005	504381.029
PT:	29+44.343	373115.099	504411.78
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	38° 46' 39.3241"	Type:	RIGHT
Radius:	123		
Length:	83.246	Tangent:	43.288
Mid-Ord:	6.976	External:	7.395
Chord:	81.666	Course:	N 85° 05' 20.2841" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	29+44.343	373115.099	504411.78
End:	29+55.095	373112.411	504422.19
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	10.752	Course:	S 75° 31' 20.0659" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	29+55.095	373112.411	504422.19
End:	30+02.383	373098.914	504467.511
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	47.288	Course:	S 73° 24' 56.9994" E
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	30+02.383	373098.914	504467.511
RP:		373161.689	504486.206
PT:	30+57.556	373105.948	504520.604
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	48° 15' 46.0707"	Type:	LEFT
Radius:	65.5		
Length:	55.174	Tangent:	29.343
Mid-Ord:	5.724	External:	6.272
Chord:	53.557	Course:	N 82° 27' 09.9652" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	30+57.556	373105.948	504520.604
End:	31+03.857	373130.263	504560.006

LINE G - STH 35 N.B. - CTH E E.B. - CONT.			
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	46.301	Course:	N 58° 19' 16.9298" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	31+03.857	373130.263	504560.006
End:	31+15.598	373136.778	504569.774
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	11.74	Course:	N 56° 17' 53.5860" E
Curve Point Data: CURVE 4G			
Description	**Station**	**Northing**	**Easting**
PC:	31+15.598	373136.778	504569.774
RP:		372720.809	504847.209
PT:	32+61.929	373199.131	504701.579
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	16° 46' 06.1107"	Type:	RIGHT
Radius:	500		
Length:	146.332	Tangent:	73.693
Mid-Ord:	5.344	External:	5.401
Chord:	145.81	Course:	N 64° 40' 56.6411" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	32+61.929	373199.131	504701.579
End:	36+74.519	373319.302	505096.28
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	412.59	Course:	N 73° 03' 59.6962" E
Curve Point Data: CURVE 5G			
Description	**Station**	**Northing**	**Easting**
PC:	36+74.519	373319.302	505096.28
RP:		373202.114	505131.959
PT:	37+58.537	373315.4	505178.569

LINE G - STH 35 N.B. - CTH E E.B. - CONT.			
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	39° 17' 49.8262"	Type:	RIGHT
Radius:	122.5		
Length:	84.018	Tangent:	43.737
Mid-Ord:	7.133	External:	7.574
Chord:	82.381	Course:	S 87° 17' 04.9854" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	37+58.537	373315.4	505178.569
End:	37+68.927	373311.447	505188.177
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	10.39	Course:	S 67° 38' 10.8495" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	37+68.927	373311.447	505188.177
End:	38+15.725	373290.525	505230.038
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	46.797	Course:	S 63° 26' 39.3004" E
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	38+15.725	373290.525	505230.038
RP:		373349.115	505259.321
PT:	38+66.828	373286.872	505279.721
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	44° 42' 08.5254"	Type:	LEFT
Radius:	65.5		
Length:	51.103	Tangent:	26.932
Mid-Ord:	4.921	External:	5.321
Chord:	49.817	Course:	S 85° 47' 43.5631" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	38+66.828	373286.872	505279.721
End:	39+13.625	373301.447	505324.19
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	46.797	Course:	N 71° 51' 12.1742" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	39+13.625	373301.447	505324.19
End:	39+25.333	373305.366	505335.223

LINE G - STH 35 N.B. - CTH E E.B. - CONT.			
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	11.708	Course:	N 70° 26' 51.6824" E
Curve Point Data: CURVE 6G			
Description	**Station**	**Northing**	**Easting**
PC:	39+25.333	373305.366	505335.223
RP:		374718.867	504833.224
PT:	40+70.984	373360.692	505469.895
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	05° 33' 48.4120"	Type:	LEFT
Radius:	1499.996		
Length:	145.65	Tangent:	72.882
Mid-Ord:	1.767	External:	1.77
Chord:	145.593	Course:	N 67° 39' 57.5026" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	40+70.984	373360.692	505469.895
End:	42+40.578	373432.676	505623.455
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	169.595	Course:	N 64° 53' 03.3098" E
Curve Point Data: CURVE 7G			
Description	**Station**	**Northing**	**Easting**
PC:	42+40.578	373432.676	505623.455
RP:		372273.697	506166.748
PT:	47+90.776	373553.651	506155.855
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	24° 37' 41.2188"	Type:	RIGHT
Radius:	1280		
Length:	550.197	Tangent:	279.414
Mid-Ord:	29.449	External:	30.142
Chord:	545.971	Course:	N 77° 11' 53.9192" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	47+90.776	373553.651	506155.855
End:	62+72.789	373566.264	507637.815
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	1482.013	Course:	N 89° 30' 44.5286" E

LINE H - STH 35 S.B. - CTH E W.B.

Curve Point Data: CURVE 1H

Description	Station	Northing	Easting
PC:	5+65.230	371927.507	502395.075
RP:		372050.235	502386.897
PT:	6+49.399	371960.307	502470.814

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	39° 12' 27.3561"	Type:	LEFT
Radius:	123		
Length:	84.169	Tangent:	43.808
Mid-Ord:	7.13	External:	7.568
Chord:	82.536	Course:	N 66° 35' 02.7875" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	6+49.399	371960.307	502470.814
End:	10+57.399	372238.664	502769.11

Tangent Data

Parameter	Value	Parameter	Value
Length:	407.999	Course:	N 46° 58' 49.3986" E

Curve Point Data: CURVE 2H

Description	Station	Northing	Easting
PC:	10+57.399	372238.664	502769.11
RP:		369862.539	504986.404
PT:	21+19.130	372824.54	503648.901

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 43' 04.3592"	Type:	RIGHT
Radius:	3249.979		
Length:	1061.731	Tangent:	535.638
Mid-Ord:	43.261	External:	43.844
Chord:	1057.016	Course:	N 56° 20' 21.5782" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	21+19.130	372824.54	503648.901
End:	26+07.732	373025.62	504094.209

Tangent Data

Parameter	Value	Parameter	Value
Length:	488.602	Course:	N 65° 41' 53.7578" E

LINE H - STH 35 S.B. - CTH E W.B. - CONT.

Curve Point Data: CURVE 3H

Description	Station	Northing	Easting
PC:	26+07.732	373025.62	504094.209
RP:		373725.568	503778.145
PT:	27+42.435	373091.511	504211.499

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 02' 57.8627"	Type:	LEFT
Radius:	768		
Length:	134.704	Tangent:	67.525
Mid-Ord:	2.951	External:	2.963
Chord:	134.531	Course:	N 60° 40' 24.8264" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	27+42.435	373091.511	504211.499
End:	28+03.011	373125.692	504261.51

Tangent Data

Parameter	Value	Parameter	Value
Length:	60.576	Course:	N 55° 38' 55.8951" E

Curve Point Data: CURVE 4H

Description	Station	Northing	Easting
PC:	28+03.011	373125.692	504261.51
RP:		372521.357	504674.55
PT:	29+70.165	373203.505	504409.038

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	13° 05' 01.2198"	Type:	RIGHT
Radius:	732		
Length:	167.155	Tangent:	83.942
Mid-Ord:	4.766	External:	4.797
Chord:	166.792	Course:	N 62° 11' 26.5005" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	29+70.165	373203.505	504409.038
End:	29+81.783	373207.72	504419.864

Tangent Data

Parameter	Value	Parameter	Value
Length:	11.618	Course:	N 68° 43' 50.5538" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	29+81.783	373207.72	504419.864
End:	30+28.580	373223.375	504463.965

LINE H - STH 35 S.B. - CTH E W.B. - CONT.

Tangent Data

Parameter	Value	Parameter	Value
Length:	46.797	Course:	N 70° 27' 23.1053" E

Curve Point Data

Description	Station	Northing	Easting
PC:	30+28.580	373223.375	504463.965
RP:		373161.648	504485.877
PT:	30+81.282	373220.237	504515.161

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	46° 06' 02.7498"	Type:	RIGHT
Radius:	65.5		
Length:	52.702	Tangent:	27.871
Mid-Ord:	5.229	External:	5.683
Chord:	51.292	Course:	S 86° 29' 35.5197" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	30+81.282	373220.237	504515.161
End:	31+28.080	373199.314	504557.021

Tangent Data

Parameter	Value	Parameter	Value
Length:	46.797	Course:	S 63° 26' 34.1448" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	31+28.080	373199.314	504557.021
End:	31+38.483	373195.357	504566.642

Tangent Data

Parameter	Value	Parameter	Value
Length:	10.403	Course:	S 67° 38' 35.1775" E

Curve Point Data: CURVE 5H

Description	Station	Northing	Easting
PC:	31+38.483	373195.357	504566.642
RP:		373308.649	504613.238
PT:	32+22.486	373191.461	504648.917

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	39° 17' 25.1193"	Type:	LEFT
Radius:	122.5		
Length:	84.004	Tangent:	43.729
Mid-Ord:	7.13	External:	7.571
Chord:	82.368	Course:	S 87° 17' 17.7372" E

LINE H - STH 35 S.B. - CTH E W.B. - CONT.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	32+22.486	373191.461	504648.917
End:	36+90.179	373327.681	505096.332
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	467.692	Course:	N 73° 03' 59.6963" E
Curve Point Data: CURVE 6H			
Description	**Station**	**Northing**	**Easting**
PC:	36+90.179	373327.681	505096.332
RP:		373559.667	505025.701
PT:	37+77.831	373367.648	505173.806
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	20° 42' 34.7404"	Type:	LEFT
Radius:	242.5		
Length:	87.652	Tangent:	44.309
Mid-Ord:	3.949	External:	4.015
Chord:	87.176	Course:	N 62° 42' 42.3261" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	37+77.831	373367.648	505173.806
End:	37+89.452	373374.744	505183.009
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	11.621	Course:	N 52° 22' 05.6336" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	37+89.452	373374.744	505183.009
End:	38+36.249	373402.178	505220.922
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	46.797	Course:	N 54° 06' 32.6849" E
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	38+36.249	373402.178	505220.922
RP:		373349.114	505259.321
PT:	39+03.012	373409.624	505284.397

LINE H - STH 35 S.B. - CTH E W.B. - CONT.			
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	58° 24' 00.8507"	Type:	RIGHT
Radius:	65.5		
Length:	66.763	Tangent:	36.607
Mid-Ord:	8.324	External:	9.535
Chord:	63.91	Course:	N 83° 18' 33.4640" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	39+03.012	373409.624	505284.397
End:	39+49.810	373391.708	505327.629
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	46.797	Course:	S 67° 29' 24.6563" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	39+49.810	373391.708	505327.629
End:	39+60.729	373387.776	505337.816
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	10.92	Course:	S 68° 53' 36.4628" E
Curve Point Data: CURVE 7H			
Description	**Station**	**Northing**	**Easting**
PC:	39+60.729	373387.776	505337.816
RP:		373511.852	505385.713
PT:	40+59.439	373388.035	505434.275
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	42° 31' 24.5763"	Type:	LEFT
Radius:	133		
Length:	98.709	Tangent:	51.752
Mid-Ord:	9.053	External:	9.714
Chord:	96.459	Course:	N 89° 50' 46.8535" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	40+59.439	373388.035	505434.275
End:	43+23.090	373484.301	505679.723

LINE H - STH 35 S.B. - CTH E W.B. - CONT.			
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	263.652	Course:	N 68° 35' 04.5653" E
Curve Point Data: CURVE 8H			
Description	**Station**	**Northing**	**Easting**
PC:	43+23.090	373484.301	505679.723
RP:		372786.083	505953.569
PCC:	44+77.589	373525.553	505828.33
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	11° 48' 10.2878"	Type:	RIGHT
Radius:	750		
Length:	154.499	Tangent:	77.524
Mid-Ord:	3.975	External:	3.996
Chord:	154.226	Course:	N 74° 29' 09.7092" E
Curve Point Data: CURVE 9H			
Description	**Station**	**Northing**	**Easting**
PCC:	44+77.589	373525.553	505828.33
RP:		371553.633	506162.299
PT:	47+95.229	373553.553	506144.398
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	09° 05' 58.9430"	Type:	RIGHT
Radius:	2000		
Length:	317.64	Tangent:	159.155
Mid-Ord:	6.303	External:	6.323
Chord:	317.306	Course:	N 84° 56' 14.3246" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	47+95.229	373553.553	506144.398
End:	62+88.699	373566.264	507637.815
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	1493.47	Course:	N 89° 30' 44.5018" E

2

LINE J - STH 35 N.B.

Tangent Data

Description	PT Station	Northing	Easting
Start:	290+21.000	370312.95	503334.202
End:	295+21.000	370730.92	503059.798

Tangent Data

Parameter	Value	Parameter	Value
Length:	500	Course:	N 33° 17' 06.7982" W

Curve Point Data: CURVE 1J

Description	Station	Northing	Easting
PC:	295+21.000	370730.92	503059.798
RP:		376829.27	512348.863
PT:	299+63.140	371105.26	502824.565

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	02° 16' 47.1656"	Type:	RIGHT
Radius:	11112		
Length:	442.14	Tangent:	221.099
Mid-Ord:	2.199	External:	2.199
Chord:	442.111	Course:	N 32° 08' 43.2154" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	299+63.140	371105.26	502824.565
End:	301+94.542	371303.6	502705.365

Tangent Data

Parameter	Value	Parameter	Value
Length:	231.401	Course:	N 31° 00' 19.6326" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	301+94.542	371303.6	502705.365
End:	304+19.542	371481.2	502567.233

Tangent Data

Parameter	Value	Parameter	Value
Length:	225	Course:	N 37° 52' 25.6348" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	304+19.542	371481.2	502567.233
End:	307+06.353	371720.97	502409.828

Tangent Data

Parameter	Value	Parameter	Value
Length:	286.812	Course:	N 33° 17' 06.7982" W

LINE J - STH 35 N.B. - CONT.

Curve Point Data: CURVE 2J

Description	Station	Northing	Easting
PC:	307+06.353	371720.97	502409.828
RP:		371788.47	502512.65
PT:	307+87.860	371798.51	502390.06

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	37° 58' 02.7412"	Type:	RIGHT
Radius:	123		
Length:	81.507	Tangent:	42.313
Mid-Ord:	6.69	External:	7.075
Chord:	80.024	Course:	N 14° 18' 05.4276" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	307+87.860	371798.51	502390.06
End:	307+98.220	371808.83	502390.906

Tangent Data

Parameter	Value	Parameter	Value
Length:	10.36	Course:	N 04° 40' 55.9431" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	307+98.220	371808.83	502390.906
End:	308+45.017	371855.06	502398.213

Tangent Data

Parameter	Value	Parameter	Value
Length:	46.797	Course:	N 08° 58' 58.7937" E

Curve Point Data

Description	Station	Northing	Easting
PC:	308+45.017	371855.06	502398.213
RP:		371865.28	502333.516
PT:	309+12.602	371915.56	502375.499

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	59° 07' 10.4047"	Type:	LEFT
Radius:	65.5		
Length:	67.585	Tangent:	37.148
Mid-Ord:	8.525	External:	9.801
Chord:	64.626	Course:	N 20° 34' 36.4086" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	309+12.602	371915.56	502375.499
End:	309+59.400	371945.56	502339.579

LINE J - STH 35 N.B. - CONT.

Tangent Data

Parameter	Value	Parameter	Value
Length:	46.797	Course:	N 50° 08' 11.6110" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	309+59.400	371945.56	502339.579
End:	309+69.166	371952.78	502333.011

Tangent Data

Parameter	Value	Parameter	Value
Length:	9.766	Course:	N 42° 15' 54.5968" W

Curve Point Data: CURVE 3J

Description	Station	Northing	Easting
PC:	309+69.166	371952.78	502333.011
RP:		372599.79	503044.929
PCC:	315+08.305	372430.18	502097.998

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	32° 06' 38.1977"	Type:	RIGHT
Radius:	962		
Length:	539.139	Tangent:	276.854
Mid-Ord:	37.523	External:	39.046
Chord:	532.111	Course:	N 26° 12' 35.4979" W

Curve Point Data: CURVE 4J

Description	Station	Northing	Easting
PCC:	315+08.305	372430.18	502097.998
RP:		372712.27	503672.924
PT:	317+77.830	372698.23	502072.997

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	09° 39' 06.2668"	Type:	RIGHT
Radius:	1599.988		
Length:	269.525	Tangent:	135.082
Mid-Ord:	5.672	External:	5.692
Chord:	269.207	Course:	N 05° 19' 43.4402" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	317+77.830	372698.23	502072.997
End:	322+77.830	373198.21	502068.608

Tangent Data

Parameter	Value	Parameter	Value
Length:	500	Course:	N 00° 30' 10.4995" W

LINE K - STH 35 S.B.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	295+21.000	370730.923	503059.798
End:	299+56.750	371095.188	502820.656
Tangent Data			
Parameter	Value	Parameter	Value
Length:	435.75	Course:	N 33° 17' 06.7977" W
Curve Point Data: CURVE 1K			
Description	**Station**	**Northing**	**Easting**
PC:	299+56.750	371095.188	502820.656
RP:		369997.574	501148.758
PT:	301+30.347	371235.992	502719.21
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	04° 58' 23.4793"	Type:	LEFT
Radius:	2000		
Length:	173.597	Tangent:	86.853
Mid-Ord:	1.883	External:	1.885
Chord:	173.543	Course:	N 35° 46' 18.5374" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	301+30.347	371235.992	502719.21
End:	302+33.491	371316.983	502655.342
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	103.144	Course:	N 38° 15' 30.2770" W
Curve Point Data: CURVE 2K			
Description	Station	**Northing**	**Easting**
PC:	302+33.491	371316.983	502655.342
RP:		372555.402	504225.794
PT:	304+07.088	371457.787	502553.896
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	04° 58' 23.4789"	Type:	RIGHT
Radius:	2000		
Length:	**173.597**	**Tangent:**	**86.853**
Mid-Ord:	1.883	External:	1.885
Chord:	173.543	Course:	N 35° 46' 18.5376" W

LINE K - STH 35 S.B. - CONT.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	**304+07.088**	**371457.787**	**502553.896**
End:	306+86.017	371690.957	502400.818
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	278.929	Course:	N 33° 17' 06.7982" W
Curve Point Data: CURVE 3K			
Description	**Station**	**Northing**	**Easting**
PC:	306+86.017	371690.957	502400.818
RP:		371416.554	501982.844
PT:	307+99.443	371777.934	502328.393
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	12° 59' 51.6263"	Type:	LEFT
Radius:	500		
Length:	113.426	Tangent:	56.958
Mid-Ord:	3.213	External:	3.234
Chord:	113.183	Course:	N 39° 47' 02.6113" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	307+99.443	371777.934	502328.393
End:	308+10.998	371785.92	502320.041
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	11.555	Course:	N 46° 16' 58.4245" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	308+10.998	371785.92	502320.041
End:	308+57.796	371819.115	502287.055
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	46.797	Course:	N 44° 49' 09.1189" W
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	308+57.796	371819.115	502287.055
RP:		371865.284	502333.516
PT:	309+23.983	371880.105	502269.715

LINE K - STH 35 S.B. - CONT.			
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	57° 53' 50.3067"	Type:	RIGHT
Radius:	65.5		
Length:	66.188	Tangent:	36.231
Mid-Ord:	8.184	External:	9.353
Chord:	63.407	Course:	N 15° 52' 13.9656" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	309+23.983	371880.105	502269.715
End:	309+70.781	371925.689	502280.305
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	46.797	Course:	N 13° 04' 41.1878" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	309+70.781	371925.689	502280.305
End:	309+80.656	371935.512	502281.322
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	9.876	Course:	N 05° 54' 42.9686" E
Curve Point Data: CURVE 4K			
Description	**Station**	**Northing**	**Easting**
PC:	309+80.656	371935.512	502281.322
RP:		371946.121	502178.87
PT:	310+49.415	372001.215	502265.896
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	38° 14' 54.5840"	Type:	LEFT
Radius:	103		
Length:	68.759	Tangent:	35.716
Mid-Ord:	5.685	External:	6.017
Chord:	67.489	Course:	N 13° 12' 44.3234" W
Description	PT Station	Northing	Easting
Start:	310+49.415	372001.215	502265.896
End:	311+20.031	372060.88	502228.125
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	70.616	Course:	N 32° 20' 11.6154" W

2

LINE K - STH 35 S.B. - CONT.			
Curve Point Data: CURVE 5K			
Description	**Station**	**Northing**	**Easting**
PC:	311+20.031	372060.88	502228.125
RP:		372479.165	502888.853
PCC:	313+35.398	372256.319	502139.277
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	15° 46' 46.2727"	Type:	RIGHT
Radius:	782		
Length:	215.366	Tangent:	108.369
Mid-Ord:	7.402	External:	7.473
Chord:	214.686	Course:	N 24° 26' 48.4791" W
Curve Point Data: CURVE 6K			
Description	**Station**	**Northing**	**Easting**
PCC:	313+35.398	372256.319	502139.277
RP:		372712.271	503672.935
PT:	317+83.714	372698.227	502072.997
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	16° 03' 14.9086"	Type:	RIGHT
Radius:	1600		
Length:	448.316	Tangent:	225.636
Mid-Ord:	15.676	External:	15.832
Chord:	446.851	Course:	N 08° 31' 47.9276" W

2

LINE N - SCHOOL RD			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	10+00.000	372751.444	503507.606
End:	10+64.199	372807.832	503476.915
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	64.199	Course:	N 28° 33' 31.0601" W
Curve Point Data: CURVE 1N			
Description	**Station**	**Northing**	**Easting**
PC:	10+64.199	372807.832	503476.915
RP:		373051.642	503924.862
PT:	13+20.200	373053.436	503414.865
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	28° 45' 36.9041"	Type:	RIGHT
Radius:	510		
Length:	256	Tangent:	130.757
Mid-Ord:	15.979	External:	16.495
Chord:	253.321	Course:	N 14° 10' 42.6080" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	13+20.200	373053.436	503414.865
End:	18+33.570	373566.804	503416.672
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	513.371	Course:	N 00° 12' 05.8441" E

LINE P - THELEN FARM TRAIL			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	80+00.000	373555.44	506366.64
End:	85+10.513	374065.31	506341.025
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	510.513	Course:	N 02° 52' 33.7991" W

PROJECT: 8110-02-72	HWY: STH 064	COUNTY: ST. CROIX	ALIGNMENT DETAILS: LINE P – THELEN FARM TRAIL	SHEET:	E

2

LINE R - F.E. - SHARED DRIVEWAY (DURAND)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	10+00.000	373555.44	506366.64
End:	10+43.429	373512.02	506367.061
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	43.429	Course:	S 00° 33' 18.7063" E
Curve Point Data: CURVE 1R			
Description	**Station**	**Northing**	**Easting**
PC:	10+43.429	373512.02	506367.061
RP:		373511.44	506307.064
PT:	11+32.076	373451.75	506313.236
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	84° 39' 03.2512"	Type:	RIGHT
Radius:	60		
Length:	88.646	Tangent:	54.645
Mid-Ord:	15.64	External:	21.154
Chord:	80.801	Course:	S 41° 46' 12.9193" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	11+32.076	373451.75	506313.236
End:	13+66.749	373427.61	506079.807

LINE R - F.E. - SHARED DRIVEWAY (DURAND) - CONT.			
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	234.674	Course:	S 84° 05' 44.5449" W
Curve Point Data: CURVE 2R			
Description	**Station**	**Northing**	**Easting**
PC:	13+66.749	373427.61	506079.807
RP:		373366.01	506086.177
PT:	14+58.481	373365.18	506024.253
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	84° 52' 02.7744"	Type:	LEFT
Radius:	61.93		
Length:	91.731	Tangent:	56.617
Mid-Ord:	16.222	External:	21.979
Chord:	83.573	Course:	S 41° 39' 43.1577" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	14+58.481	373365.18	506024.253
End:	14+77.438	373346.22	506024.509
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	18.957	Course:	S 00° 46' 18.2295" E

LINE S - TRAIL ALONG STH 64

Tangent Data

Description	PT Station	Northing	Easting
Start:	140+72.950	369212.832	505210.252
End:	140+78.165	369217.722	505212.064

Tangent Data

Parameter	Value	Parameter	Value
Length:	5.215	Course:	N 20° 20' 02.4136" E

Curve Point Data

Description	Station	Northing	Easting
PC:	140+78.165	369217.722	505212.064
RP:		369391.468	504743.223
PCC:	142+43.004	369378.86	505243.064

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	18° 53' 20.8921"	Type:	LEFT
Radius:	500		
Length:	164.839	Tangent:	83.174
Mid-Ord:	6.778	External:	6.871
Chord:	164.093	Course:	N 10° 53' 21.9676" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	142+43.004	369378.86	505243.064
RP:		369366.253	505742.905
PCC:	143+48.116	369482.889	505256.699

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	12° 02' 41.9834"	Type:	RIGHT
Radius:	500		
Length:	105.112	Tangent:	52.751
Mid-Ord:	2.76	External:	2.775
Chord:	104.919	Course:	N 07° 28' 02.5132" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	143+48.116	369482.889	505256.699
RP:		369999.744	503102.167
PCC:	144+66.137	369598.333	505281.161

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	03° 03' 07.0196"	Type:	LEFT
Radius:	2215.66		
Length:	118.021	Tangent:	59.024
Mid-Ord:	0.786	External:	0.786
Chord:	118.007	Course:	N 11° 57' 49.9951" E

LINE S - TRAIL ALONG STH 64 - CONT.

Curve Point Data

Description	Station	Northing	Easting
PCC:	144+66.137	369598.333	505281.161
RP:		369779.503	504297.71
PCC:	146+49.611	369780.801	505297.709

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 30' 44.2195"	Type:	LEFT
Radius:	1000		
Length:	183.474	Tangent:	91.995
Mid-Ord:	4.205	External:	4.223
Chord:	183.217	Course:	N 05° 10' 54.3756" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	146+49.611	369780.801	505297.709
RP:		369784.695	508297.706
PCC:	149+05.639	370036.532	505308.295

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	04° 53' 23.2136"	Type:	RIGHT
Radius:	3000		
Length:	256.028	Tangent:	128.092
Mid-Ord:	2.731	External:	2.733
Chord:	255.951	Course:	N 02° 22' 13.8726" E

Curve Point Data

Description	Station	Northing	Easting
PCC:	149+05.639	370036.532	505308.295
RP:		370120.478	504311.825
PCC:	152+43.336	370371.419	505279.827

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	19° 20' 54.8789"	Type:	LEFT
Radius:	1000		
Length:	337.696	Tangent:	170.471
Mid-Ord:	14.221	External:	14.426
Chord:	336.094	Course:	N 04° 51' 31.9600" W

LINE S - TRAIL ALONG STH 64 - CONT.

Curve Point Data

Description	Station	Northing	Easting
PCC:	152+43.336	370371.419	505279.827
RP:		370873.299	507215.833
PCC:	156+30.588	370753.321	505219.435

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	11° 05' 38.2671"	Type:	RIGHT
Radius:	2000		
Length:	387.252	Tangent:	194.233
Mid-Ord:	9.365	External:	9.41
Chord:	386.648	Course:	N 08° 59' 10.2659" W

Curve Point Data

Description	Station	Northing	Easting
PCC:	156+30.588	370753.321	505219.435
RP:		370693.331	504221.236
PCC:	158+72.761	370990.951	505175.92

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	13° 52' 31.8259"	Type:	LEFT
Radius:	1000		
Length:	242.173	Tangent:	121.682
Mid-Ord:	7.322	External:	7.376
Chord:	241.582	Course:	N 10° 22' 37.0454" W

Curve Point Data: CURVE 1S

Description	Station	Northing	Easting
PCC:	158+72.761	370990.951	505175.92
RP:		371586.191	507085.289
PCC:	164+19.255	371528.296	505086.127

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	15° 39' 21.2270"	Type:	RIGHT
Radius:	2000		
Length:	546.494	Tangent:	274.96
Mid-Ord:	18.637	External:	18.812
Chord:	544.795	Course:	N 09° 29' 12.3448" W

Curve Point Data: CURVE 2S

Description	Station	Northing	Easting
PCC:	164+19.255	371528.296	505086.127
RP:		371499.348	504086.546
PCC:	167+54.966	371855.982	505020.79

2

LINE S - TRAIL ALONG STH 64 - CONT.

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	19° 14' 05.3594"	Type:	LEFT
Radius:	1000		
Length:	335.711	Tangent:	169.45
Mid-Ord:	14.055	External:	14.255
Chord:	334.137	Course:	N 11° 16' 34.4110" W

Curve Point Data: CURVE 3S

Description	Station	Northing	Easting
PCC:	167+54.966	371855.982	505020.79
RP:		372569.251	506889.278
PCC:	170+00.512	372090.175	504947.504

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	07° 02' 03.7314"	Type:	RIGHT
Radius:	2000		
Length:	245.546	Tangent:	122.927
Mid-Ord:	3.767	External:	3.774
Chord:	245.392	Course:	N 17° 22' 35.2250" W

Curve Point Data: CURVE 4S

Description	Station	Northing	Easting
PCC:	170+00.512	372090.175	504947.504
RP:		371850.637	503976.617
PT:	174+78.705	372510.084	504728.368

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	27° 23' 54.3563"	Type:	LEFT
Radius:	1000		
Length:	478.193	Tangent:	243.759
Mid-Ord:	28.448	External:	29.281
Chord:	473.65	Course:	N 27° 33' 30.5375" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	174+78.705	372510.084	504728.368
End:	176+84.285	372664.629	504592.799

Tangent Data

Parameter	Value	Parameter	Value
Length:	205.58	Course:	N 41° 15' 27.7156" W

Curve Point Data: CURVE 5S

Description	Station	Northing	Easting
PC:	176+84.285	372664.629	504592.799
RP:		372170.044	504028.986
PT:	178+24.150	372760.589	504491.323

LINE S - TRAIL ALONG STH 64 - CONT.

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	10° 41' 05.8160"	Type:	LEFT
Radius:	750		
Length:	139.866	Tangent:	70.136
Mid-Ord:	3.258	External:	3.272
Chord:	139.663	Course:	N 46° 36' 00.6236" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	178+24.150	372760.589	504491.323
End:	180+11.483	372876.071	504343.819

Tangent Data

Parameter	Value	Parameter	Value
Length:	187.333	Course:	N 51° 56' 33.5316" W

Curve Point Data: CURVE 6S

Description	Station	Northing	Easting
PC:	180+11.483	372876.071	504343.819
RP:		373033.549	504467.109
PT:	181+07.975	372951.247	504284.828

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	27° 38' 34.1543"	Type:	RIGHT
Radius:	200		
Length:	96.492	Tangent:	49.204
Mid-Ord:	5.791	External:	5.964
Chord:	95.559	Course:	N 38° 07' 16.4545" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	181+07.975	372951.247	504284.828
End:	184+07.199	373223.962	504161.694

Tangent Data

Parameter	Value	Parameter	Value
Length:	299.225	Course:	N 24° 17' 59.3773" W

Curve Point Data: CURVE 7S

Description	Station	Northing	Easting
PC:	184+07.199	373223.962	504161.694
RP:		373306.264	504343.974
PT:	185+36.546	373350.422	504148.91

LINE S - TRAIL ALONG STH 64 - CONT.

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	37° 03' 18.4670"	Type:	RIGHT
Radius:	200		
Length:	129.347	Tangent:	67.026
Mid-Ord:	10.366	External:	10.932
Chord:	127.104	Course:	N 05° 46' 20.1438" W

Tangent Data

Description	PT Station	Northing	Easting
Start:	185+36.546	373350.422	504148.91
End:	187+04.519	373514.249	504185.996

Tangent Data

Parameter	Value	Parameter	Value
Length:	167.973	Course:	N 12° 45' 19.0897" E

2

LINE T - FRONTAGE RD A			
STATION EQUATIONS			
Internal Station	**Back Station**	**Ahead Station**	
23708.4	23708.4	23708.4	
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	216+54.640	377547.978	504683.867
End:	221+24.734	377545.61	505153.955
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	470.094	Course:	S 89° 42' 41.1231" E
Curve Point Data: CURVE 1T			
Description	**Station**	**Northing**	**Easting**
PC:	221+24.734	377545.61	505153.955
RP:		379745.582	505165.035
PT:	226+70.511	377610.241	505694.483
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	14° 12' 50.2927"	Type:	LEFT
Radius:	2200		
Length:	545.777	Tangent:	274.297
Mid-Ord:	16.903	External:	17.034
Chord:	544.379	Course:	N 83° 10' 53.7306" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	226+70.511	377610.241	505694.483
End:	231+86.467	377734.41	506195.275
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	515.956	Course:	N 76° 04' 28.5843" E
Curve Point Data: CURVE 2T			
Description	**Station**	**Northing**	**Easting**
PC:	231+86.467	377734.41	506195.275
RP:		375595.185	506725.686
PT:	237+08.392	377799.143	506711.943
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	13° 34' 05.2153"	Type:	RIGHT
Radius:	2204		
Length:	521.925	Tangent:	262.189
Mid-Ord:	15.431	External:	15.54
Chord:	520.707	Course:	N 82° 51' 31.1919" E

LINE T - FRONTAGE RD A - CONT.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	237+08.392	377799.143	506711.943
End:	239+82.541	377800.852	506986.086
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	274.149	Course:	N 89° 38' 33.7996" E
Curve Point Data: CURVE 3T			
Description	**Station**	**Northing**	**Easting**
PC:	239+82.541	377800.852	506986.086
RP:		378180.845	506983.717
PT:	245+77.004	378180.774	507363.717
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	89° 37' 55.6994"	Type:	LEFT
Radius:	380		
Length:	594.463	Tangent:	377.568
Mid-Ord:	110.438	External:	155.684
Chord:	535.673	Course:	N 44° 49' 35.9499" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	245+77.004	378180.774	507363.717
End:	250+70.664	378674.434	507363.808
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	493.66	Course:	N 00° 00' 38.1002" E

LINE U - FRONTAGE RD B			
Description	**PT Station**	**Northing**	**Easting**
Start:	242+24.230	377918.525	507258.65
End:	242+37.567	377909.318	507268.299
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	13.337	Course:	S 46° 20' 44.5196" E
Curve Point Data: CURVE 1U			
Description	**Station**	**Northing**	**Easting**
PC:	242+37.567	377909.318	507268.299
RP:		378184.255	507530.615
PT:	245+29.404	377804.262	507532.927
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	44° 00' 10.0766"	Type:	LEFT
Radius:	380		
Length:	291.838	Tangent:	153.541
Mid-Ord:	27.674	External:	29.847
Chord:	284.718	Course:	S 68° 20' 49.5579" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	245+29.404	377804.262	507532.927
End:	263+43.235	377815.295	509346.724
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	1813.83	Course:	N 89° 39' 05.4038" E
Curve Point Data: CURVE 2U			
Description	**Station**	**Northing**	**Easting**
PC:	263+43.235	377815.295	509346.724
RP:		380021.254	509333.306
PT:	265+55.359	377826.774	509558.456
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	05° 30' 34.0268"	Type:	LEFT
Radius:	2206		
Length:	212.125	Tangent:	106.144
Mid-Ord:	2.549	External:	2.552
Chord:	212.043	Course:	N 86° 53' 48.3904" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	265+55.359	377826.774	509558.456
End:	266+01.359	377864.813	509584.321
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	46	Course:	N 34° 12' 52.7721" E

LINE V - FRONTAGE RD C

Curve Point Data: CURVE 1V

Description	Station	Northing	Easting
PC:	229+00.693	376918.57	506311.9
RP:		376921.825	506511.874
PT:	230+50.730	377055.78	506363.361

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	42° 58' 56.5329"	Type:	RIGHT
Radius:	200		
Length:	150.037	Tangent:	78.747
Mid-Ord:	13.905	External:	14.944
Chord:	146.543	Course:	N 20° 33' 31.3067" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	230+50.730	377055.78	506363.361
End:	231+91.999	377159.552	506459.217

Tangent Data

Parameter	Value	Parameter	Value
Length:	141.269	Course:	N 42° 43' 45.6311" E

Curve Point Data: CURVE 2V

Description	Station	Northing	Easting
PC:	231+91.999	377159.552	506459.217
RP:		377295.259	506312.304
PT:	233+42.039	377296.146	506512.302

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	42° 58' 59.5905"	Type:	LEFT
Radius:	200		
Length:	150.04	Tangent:	78.748
Mid-Ord:	13.906	External:	14.945
Chord:	146.546	Course:	N 21° 14' 15.8359" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	233+42.039	377296.146	506512.302
End:	234+02.079	377356.185	506512.036

Tangent Data

Parameter	Value	Parameter	Value
Length:	60.04	Course:	N 00° 15' 13.9594" W

Curve Point Data: CURVE 3V

Description	Station	Northing	Easting
PC:	234+02.079	377356.185	506512.036
RP:		377356.983	506692.034
PT:	236+84.929	377536.981	506691.343

LINE V - FRONTAGE RD C - CONT.

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	90° 02' 02.2616"	Type:	RIGHT
Radius:	180		
Length:	282.85	Tangent:	180.107
Mid-Ord:	52.759	External:	74.634
Chord:	254.634	Course:	N 44° 45' 47.1714" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	236+84.929	377536.981	506691.343
End:	261+56.582	377546.468	509162.978

Tangent Data

Parameter	Value	Parameter	Value
Length:	2471.653	Course:	N 89° 46' 48.3022" E

Curve Point Data: CURVE 4V

Description	Station	Northing	Easting
PC:	261+56.582	377546.468	509162.978
RP:		380411.237	509151.982
PT:	264+88.161	377566.905	509493.741

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	06° 37' 53.7015"	Type:	LEFT
Radius:	2864.79		
Length:	331.579	Tangent:	165.975
Mid-Ord:	4.796	External:	4.804
Chord:	331.394	Course:	N 86° 27' 51.4514" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	264+88.161	377566.905	509493.741
End:	267+36.590	377596.542	509740.397

Tangent Data

Parameter	Value	Parameter	Value
Length:	248.429	Course:	N 83° 08' 54.6007" E

Curve Point Data: CURVE 5V

Description	Station	Northing	Easting
PC:	267+36.590	377596.542	509740.397
RP:		377348.327	509770.221
PT:	271+57.903	377349.61	510020.217

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	96° 33' 27.4187"	Type:	RIGHT
Radius:	250		
Length:	421.312	Tangent:	280.385
Mid-Ord:	83.623	External:	125.654
Chord:	373.196	Course:	S 48° 34' 21.6900" E

LINE V - FRONTAGE RD C - CONT.

Tangent Data

Description	PT Station	Northing	Easting
Start:	271+57.903	377349.61	510020.217
End:	274+82.056	377025.46	510021.88

Tangent Data

Parameter	Value	Parameter	Value
Length:	324.154	Course:	S 00° 17' 37.9806" E

2

LINE AA - STH 35/MAIN ST RAB CIRCLE			
Curve Point Data:			
Description	**Station**	**Northing**	**Easting**
PC:	5+00.000	371842.82	502271.991
RP:		371865.28	502333.516
PT:	9+11.456	371842.9	502271.959
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	359° 55' 06.8912"	Type:	LEFT
Radius:	65.5		
Length:	411.456	Tangent:	0.047
Mid-Ord:	131	External:	131
Chord:	0.093	Course:	N 20° 01' 13.9785" W

PROJECT: 8110-02-72	HWY: STH 064	COUNTY: ST. CROIX	ALIGNMENT DETAILS: LINE AA – STH 35/MAIN ST ROUNDABOUT CIRCLE	SHEET:	E

2

LINE BB - STH 35 NB ISLAND			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	5+31.900	371661.39	502470.474
End:	6+14.986	371730.84	502424.875
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	83.086	Course:	N 33° 17' 06.7982" W
Curve Point Data: CURVE 1BB			
Description	**Station**	**Northing**	**Easting**
PC:	6+14.986	371730.84	502424.875
RP:		371788.47	502512.65
PT:	7+54.644	371859.97	502435.761
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	76° 12' 27.0181"	Type:	RIGHT
Radius:	105		
Length:	139.658	Tangent:	82.342
Mid-Ord:	22.376	External:	28.436
Chord:	129.588	Course:	N 04° 49' 06.7109" E

2

LINE CC - STH 35 NB RT TURN			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	302+43.170	371346.07	502682.974
End:	305+64.793	371623.48	502520.231
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	321.623	Course:	N 30° 23' 53.2048" W
Curve Point Data: CURVE 1CC			
Description	**Station**	**Northing**	**Easting**
PC:	305+64.793	371623.48	502520.231
RP:		371876.48	502951.497
PT:	308+45.006	371891.42	502451.72
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	32° 06' 36.2760"	Type:	RIGHT
Radius:	500		
Length:	280.213	Tangent:	143.893
Mid-Ord:	19.502	External:	20.293
Chord:	276.561	Course:	N 14° 20' 35.0668" W

2

LINE DD - STH 35 WEST TERM RAB CIRCLE			
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	5+00.000	373222.9	504462.681
RP:		373161.65	504485.877
PT:	9+11.521	373222.91	504462.706
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	359° 58' 33.0061"	Type:	LEFT
Radius:	65.5		
Length:	411.521	Tangent:	0.014
Mid-Ord:	131	External:	131
Chord:	0.028	Course:	N 69° 16' 17.5176" E

LINE EE - STH 35 NW RAMP RT TURN			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	180+76.460	373207.68	504387.327
End:	180+83.481	373214.62	504388.392
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	7.021	Course:	N 08° 43' 19.0889" E
Curve Point Data: CURVE 1EE			
Description	**Station**	**Northing**	**Easting**
PC:	180+83.481	373214.62	504388.392
RP:		373325.92	503662.88
PT:	182+20.128	373350.83	504396.457
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	10° 39' 59.7640"	Type:	LEFT
Radius:	734		
Length:	136.647	Tangent:	68.521
Mid-Ord:	3.178	External:	3.191
Chord:	136.45	Course:	N 03° 23' 19.2069" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	182+20.128	373350.83	504396.457
End:	184+03.850	373534.45	504390.223
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	183.722	Course:	N 01° 56' 40.6751" W
Curve Point Data: CURVE 2EE			
Description	**Station**	**Northing**	**Easting**
PC:	184+03.850	373534.45	504390.223
RP:		373551.41	504889.935
PT:	186+25.166	373750.12	504431.114
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	25° 21' 39.3861"	Type:	RIGHT
Radius:	500		
Length:	221.316	Tangent:	112.501
Mid-Ord:	12.195	External:	12.5
Chord:	219.514	Course:	N 10° 44' 09.0180" E

LINE EE - STH 35 NW RAMP RT TURN - CONT.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	186+25.166	373750.12	504431.114
End:	189+14.222	374015.37	504545.988
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	289.057	Course:	N 23° 24' 58.7110" E

LINE FF - STH 35 NB RT TURN TO SW RAMP			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	27+82.000	373059.2	504265.828
End:	28+60.991	373091.7	504337.821
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	78.991	Course:	N 65° 42' 00.6227" E
Curve Point Data: CURVE 1FF			
Description	**Station**	**Northing**	**Easting**
PC:	28+60.991	373091.7	504337.821
RP:		372996.01	504381.029
PCC:	29+46.164	373093.24	504420.663
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	46° 28' 35.5310"	Type:	RIGHT
Radius:	105		
Length:	85.173	Tangent:	45.086
Mid-Ord:	8.518	External:	9.271
Chord:	82.857	Course:	N 88° 56' 18.3882" E
Curve Point Data: CURVE 2FF			
Description	**Station**	**Northing**	**Easting**
PCC:	29+46.164	373093.24	504420.663
RP:		373028.42	504394.241
PT:	29+92.395	373063.4	504454.873
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	37° 50' 26.5700"	Type:	RIGHT
Radius:	70		
Length:	46.231	Tangent:	23.994
Mid-Ord:	3.782	External:	3.998
Chord:	45.395	Course:	S 48° 54' 10.5614" E

LINE GG - STH 35 EAST TERM RAB CIRCLE			
Curve Point Data			
Description	**Station**	**Northing**	**Easting**
PC:	5+00.000	373413.81	505269.552
RP:		373349.12	505259.321
PT:	9+11.549	373413.81	505269.553
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	359° 59' 59.6223"	Type:	LEFT
Radius:	65.5		
Length:	411.549	Tangent:	0
Mid-Ord:	131	External:	131
Chord:	0	Course:	S 81° 00' 46.1923" E

PROJECT: 8110-02-72	HWY: STH 064	COUNTY: ST. CROIX	ALIGNMENT DETAILS: LINE GG – STH 35 EAST TERM ROUNDABOUT CIRCLE	SHEET:	E

ESTIMATE FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-71\AD.HTML
MISCELLANEOUSE QUANTITIES FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-71\8110-02-71_SE.PPTX
PLOT DATE: 4/22/2013 10:28:33 AM PLOT BY: DOTERA PLOT NAME: PLOT SCALE: NONE

2

LINE HH - SE RAMP RT TURN			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	174+90.950	372624.5	505262.513
End:	177+34.312	372860.75	505320.904
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	243.362	Course:	N 13° 52' 57.1686" E
Curve Point Data: CURVE 1HH			
Description	**Station**	**Northing**	**Easting**
PC:	177+34.312	372860.75	505320.904
RP:		372980.72	504835.509
PT:	178+46.380	372971.64	505335.427
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	12° 50' 31.3724"	Type:	LEFT
Radius:	500		
Length:	112.068	Tangent:	56.27
Mid-Ord:	3.137	External:	3.156
Chord:	111.834	Course:	N 07° 27' 41.4824" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	178+46.380	372971.64	505335.427
End:	180+30.305	373155.53	505338.767
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	183.925	Course:	N 01° 02' 25.7962" E
Curve Point Data: CURVE 2HH			
Description	**Station**	**Northing**	**Easting**
PC:	180+30.305	373155.53	505338.767
RP:		373142.2	506072.645
PT:	181+68.959	373293.1	505354.324
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	10° 49' 23.8925"	Type:	RIGHT
Radius:	734		
Length:	138.654	Tangent:	69.534
Mid-Ord:	3.272	External:	3.286
Chord:	138.448	Course:	N 06° 27' 07.7424" E

LINE HH - SE RAMP RT TURN - CONT.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	181+68.959	373293.1	505354.324
End:	181+76.048	373300.04	505355.782
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	7.089	Course:	N 11° 51' 49.6887" E

LINE JJ - P.E. - FR A (KILBANE)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	20+00.000	377709.99	506096.79
End:	20+56.672	377765.81	506087.022
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	56.672	Course:	N 09° 55' 31.4157" W
Curve Point Data: CURVE 1JJ			
Description	**Station**	**Northing**	**Easting**
PC:	20+56.672	377765.81	506087.022
RP:		377792.53	506239.702
PT:	22+75.832	377939.16	506189.463
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	81° 00' 46.0609"	Type:	RIGHT
Radius:	155		
Length:	219.161	Tangent:	132.412
Mid-Ord:	37.148	External:	48.858
Chord:	201.355	Course:	N 30° 34' 51.6147" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	22+75.832	377939.16	506189.463
End:	24+01.552	377979.91	506308.396
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	125.72	Course:	N 71° 05' 14.6452" E
Curve Point Data: CURVE 2JJ			
Description	**Station**	**Northing**	**Easting**
PC:	24+01.552	377979.91	506308.396
RP:		378036.67	506288.948
PT:	24+75.894	378036.57	506348.948
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	70° 59' 28.8765"	Type:	LEFT
Radius:	60		
Length:	74.342	Tangent:	42.791
Mid-Ord:	11.15	External:	13.696
Chord:	69.677	Course:	N 35° 35' 30.2069" E

LINE JJ - P.E. - FR A (KILBANE) - CONT.			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	24+75.894	378036.57	506348.948
End:	26+86.914	378247.59	506349.302
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	211.02	Course:	N 00° 05' 45.7687" E

2

LINE KK - P.E. - FR C (B&J ANDERSON)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	10+00.000	377332.62	506512.14
End:	11+31.286	377317.43	506642.544
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	131.286	Course:	S 83° 21' 17.2457" E

LINE LL - P.E. - FR C			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+00.000	377475.77	509699.887
End:	0+70.269	377546.03	509700.89
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	70.269	Course:	N 00° 49' 04.7604" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+70.269	377546.03	509700.89
End:	1+15.703	377591.14	509695.469
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	45.435	Course:	N 06° 51' 05.3993" W

LINE MM - P.E. - FR C (BOUMEESTER)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	10+00.000	377445.54	510000.545
End:	10+43.721	377460.72	510041.546
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	43.721	Course:	N 69° 41' 05.2437" E
Curve Point Data: CURVE 1MM			
Description	**Station**	**Northing**	**Easting**
PC:	10+43.721	377460.72	510041.546
RP:		377390.39	510067.585
PT:	10+71.944	377465.37	510069.215
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	21° 33' 40.3282"	Type:	RIGHT
Radius:	75		
Length:	28.224	Tangent:	14.281
Mid-Ord:	1.324	External:	1.347
Chord:	28.057	Course:	N 80° 27' 55.4078" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	10+71.944	377465.37	510069.215
End:	11+76.552	377463.1	510173.798
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	104.607	Course:	S 88° 45' 14.4281" E

LINE NN - P.E. - FR B (SUTTER)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	10+00.000	377864.81	509584.321
End:	10+30.004	377889.94	509600.711
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	30.004	Course:	N 33° 06' 39.0035" E
Curve Point Data: CURVE 1NN			
Description	**Station**	**Northing**	**Easting**
PC:	10+30.004	377889.94	509600.711
RP:		377922.72	509550.454
PT:	10+61.269	377919.31	509610.357
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	29° 51' 22.7238"	Type:	LEFT
Radius:	60		
Length:	31.265	Tangent:	15.996
Mid-Ord:	2.025	External:	2.096
Chord:	30.913	Course:	N 18° 10' 57.6416" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	10+61.269	377919.31	509610.357
End:	11+23.277	377981.22	509613.878
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	62.008	Course:	N 03° 15' 16.2797" E

LINE PP - P.E. - FR A (MONTAGNE & SINGER)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	20+00.000	377568.25	505480
End:	20+47.183	377615.17	505475.046
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	47.183	Course:	N 06° 01' 39.5154" W
Curve Point Data: CURVE 1PP			
Description	**Station**	**Northing**	**Easting**
PC:	20+47.183	377615.17	505475.046
RP:		377612.02	505445.211
PT:	20+92.473	377641.99	505443.89
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	86° 29' 50.3738"	Type:	LEFT
Radius:	30		
Length:	45.29	Tangent:	28.22
Mid-Ord:	8.148	External:	11.187
Chord:	41.11	Course:	N 49° 16' 34.7023" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	20+92.473	377641.99	505443.89
End:	21+71.941	377638.49	505364.499
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	79.468	Course:	S 87° 28' 30.1107" W

2

LINE QQ - P.E. - CTH E (RENEAU)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+00.000	373559.46	506838.302
End:	0+21.627	373581.08	506837.599
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	21.627	Course:	N 01° 51' 37.1781" W
Curve Point Data: CURVE 1QQ			
Description	**Station**	**Northing**	**Easting**
PC:	0+21.627	373581.08	506837.599
RP:		373574.58	506637.705
PT:	0+38.139	373597.54	506836.383
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	04° 43' 48.4918"	Type:	LEFT
Radius:	200		
Length:	16.511	Tangent:	8.26
Mid-Ord:	0.17	External:	0.171
Chord:	16.507	Course:	N 04° 13' 31.4240" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+38.139	373597.54	506836.383
End:	0+97.602	373656.61	506829.559
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	59.463	Course:	N 06° 35' 25.6699" W

LINE RR - P.E. - CTH E (FAGERLUND)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+00.000	373476.53	506759.469
End:	0+11.957	373476.95	506771.419
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	11.957	Course:	N 87° 57' 19.2934" E
Curve Point Data: CURVE 1RR			
Description	**Station**	**Northing**	**Easting**
PC:	0+11.957	373476.95	506771.419
RP:		373510.93	506770.205
PT:	0+64.260	373511.04	506804.205
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	88° 08' 22.9482"	Type:	LEFT
Radius:	34		
Length:	52.303	Tangent:	32.914
Mid-Ord:	9.571	External:	13.321
Chord:	47.296	Course:	N 43° 53' 07.8193" E
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+64.260	373511.04	506804.205
End:	1+12.389	373559.17	506804.05
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	48.129	Course:	N 00° 11' 03.6548" W

LINE SS - P.E. - CTH E (PLAHN)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	10+00.000	373389.03	506670.034
End:	10+83.234	373472.2	506673.387
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	83.234	Course:	N 02° 18' 33.2272" E
Curve Point Data: CURVE 1SS			
Description	**Station**	**Northing**	**Easting**
PC:	10+83.234	373472.2	506673.387
RP:		373473.41	506643.412
PT:	11+28.510	373503.25	506646.463

LINE SS - P.E. - CTH E (PLAHN) - CONT.			
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	86° 28' 15.3680"	Type:	LEFT
Radius:	30		
Length:	45.276	Tangent:	28.207
Mid-Ord:	8.144	External:	11.178
Chord:	41.1	Course:	N 40° 55' 34.4568" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	11+28.510	373503.25	506646.463
End:	11+55.728	373506.02	506619.386
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	27.218	Course:	N 84° 09' 42.1408" W
Curve Point Data: CURVE 2SS			
Description	**Station**	**Northing**	**Easting**
PC:	11+55.728	373506.02	506619.386
RP:		373535.86	506622.438
PT:	11+99.017	373535.08	506592.448
Circular Curve Data			
Parameter	**Value**	**Parameter**	**Value**
Delta:	82° 40' 31.4798"	Type:	RIGHT
Radius:	30		
Length:	43.289	Tangent:	26.391
Mid-Ord:	7.475	External:	9.956
Chord:	39.63	Course:	N 42° 49' 26.4009" W
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	11+99.017	373535.08	506592.448
End:	12+21.302	373557.36	506591.87
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	22.285	Course:	N 01° 29' 10.6610" W

LINE TT - P.E. - 13TH ST (GILLSTROM)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	10+00.000	374033.47	506230.556
End:	11+11.927	374039.13	506342.34
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	111.927	Course:	N 87° 06' 01.9991" E

PROJECT: 8110-02-72	HWY: STH 064	COUNTY: ST. CROIX	ALIGNMENT DETAILS: LINE TT – P.E. – THELEN FARM TRAIL (GILLSTROM)	SHEET:	E

LINE UU - P.E. - CTH E (SEVERSON)			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	10+10.000	373085.72	506369.742
End:	11+59.616	373235.34	506369.742
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	149.616	Course:	N 00° 00' 00.0000" E

LINE VV - P.E. - SCHOOL RD			
Tangent Data			
Description	**PT Station**	**Northing**	**Easting**
Start:	0+00.000	373257.09	503415.582
End:	0+85.999	373256.79	503501.581
Tangent Data			
Parameter	**Value**	**Parameter**	**Value**
Length:	85.999	Course:	S 89° 47' 54.1559" E

DATE 01OCT14 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	8110-02-72 QUANTITY
0010	201.0105	CLEARING	STA	79.000	79.000
0020	201.0205	GRUBBING	STA	79.000	79.000
0030	203.0100	REMOVING SMALL PIPE CULVERTS	EACH	9.000	9.000
0040	204.0100	REMOVING PAVEMENT	SY	3,320.000	3,320.000
0050	204.0170	REMOVING FENCE	LF	6,150.000	6,150.000
0060	205.0100	EXCAVATION COMMON	CY	506,849.000	506,849.000
0070	206.1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. B-55-226	LS	1.000	1.000
0080	206.2000	EXCAVATION FOR STRUCTURES CULVERTS (STRUCTURE) 01. C-55-35	LS	1.000	1.000
0090	206.2000	EXCAVATION FOR STRUCTURES CULVERTS (STRUCTURE) 02. C-55-36	LS	1.000	1.000
0100	208.0100	BORROW	CY	7,178.000	7,178.000
0110	208.1100	SELECT BORROW	CY	3,453.000	3,453.000
0120	210.0100	BACKFILL STRUCTURE	CY	4,350.000	4,350.000
0130	213.0100	FINISHING ROADWAY (PROJECT) 01. 8110-02-72	EACH	1.000	1.000
0140	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	13,850.000	13,850.000
0150	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	115,862.000	115,862.000
0160	311.0115	BREAKER RUN	CY	180.000	180.000
0170	312.0110	SELECT CRUSHED MATERIAL	TON	190,911.000	190,911.000
0180	330.0100	MILL AND RELAY	SY	4,861.000	4,861.000
0190	405.0100	COLORING CONCRETE RED	CY	426.000	426.000
0200	416.0508	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH	SY	1,923.000	1,923.000
0210	416.0620	DRILLED DOWEL BARS	EACH	24.000	24.000
0220	416.1110	CONCRETE SHOULDER RUMBLE STRIPS	LF	6,950.000	6,950.000
0230	440.4410.S	INCENTIVE IRI RIDE	DOL	504.000	504.000
0240	455.0110	ASPHALTIC MATERIAL PG58-34	TON	105.000	105.000
0250	455.0145	ASPHALTIC MATERIAL PG64-34P	TON	872.000	872.000
0260	455.0605	TACK COAT	GAL	2,112.000	2,112.000
0270	460.1100	HMA PAVEMENT TYPE E-0.3	TON	1,829.000	1,829.000
0280	460.1103	HMA PAVEMENT TYPE E-3	TON	15,550.000	15,550.000
0290	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	7,202.000	7,202.000
0300	465.0105	ASPHALTIC SURFACE	TON	622.000	622.000
0310	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	217.000	217.000
0320	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	2,448.000	2,448.000
0330	465.0315	ASPHALTIC FLUMES	SY	357.000	357.000
0340	465.0400	ASPHALTIC SHOULDER RUMBLE STRIPS	LF	10,634.000	10,634.000
0350	502.0100	CONCRETE MASONRY BRIDGES	CY	811.000	811.000
0360	502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,850.000	1,850.000
0370	503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	1,750.000	1,750.000
0380	504.0100	CONCRETE MASONRY CULVERTS	CY	526.000	526.000
0390	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	10,720.000	10,720.000
0400	505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	52,280.000	52,280.000
0410	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	137,960.000	137,960.000
0420	505.0610	BAR STEEL REINFORCEMENT HS COATED CULVERTS	LB	5,920.000	5,920.000
0430	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	32.000	32.000
0440	506.4000	STEEL DIAPHRAGMS (STRUCTURE) 01. B-55-226	EACH	28.000	28.000
0450	513.4090	RAILING TUBULAR SCREENING (STRUCTURE) 01. B-55-226	LS	1.000	1.000
0460	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	117.000	117.000

3

DATE 01OCT14 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	8110-02-72 QUANTITY
0470	517.1010.S	CONCRETE STAINING (STRUCTURE) 01. B-55-226	SF	6,750.000	6,750.000
0480	517.1015.S	CONCRETE STAINING MULTI-COLOR (STRUCTURE) 01. B-55-226	SF	108.000	108.000
0490	517.1015.S	CONCRETE STAINING MULTI-COLOR (STRUCTURE) 02. C-55-35	SF	540.000	540.000
0500	517.1050.S	ARCHITECTURAL SURFACE TREATMENT (STRUCTURE) 01. B-55-226	SF	108.000	108.000
0510	517.1050.S	ARCHITECTURAL SURFACE TREATMENT (STRUCTURE) 02. C-55-35	SF	540.000	540.000
0520	521.0118	CULVERT PIPE CORRUGATED STEEL 18-INCH	LF	80.000	80.000
0530	521.0124	CULVERT PIPE CORRUGATED STEEL 24-INCH	LF	24.000	24.000
0540	521.1018	APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH	EACH	2.000	2.000
0550	521.1024	APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH	EACH	2.000	2.000
0560	522.0118	CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	472.000	472.000
0570	522.0124	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	480.000	480.000
0580	522.0130	CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH	LF	232.000	232.000
0590	522.0148	CULVERT PIPE REINFORCED CONCRETE CLASS III 48-INCH	LF	336.000	336.000
0600	522.0324	CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH	LF	184.000	184.000
0610	522.1018	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	EACH	29.000	29.000
0620	522.1024	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	EACH	15.000	15.000
0630	522.1030	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH	EACH	4.000	4.000
0640	522.1036	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH	EACH	3.000	3.000
0650	522.1048	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH	EACH	4.000	4.000
0660	523.0124	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24X38-INCH	LF	64.000	64.000
0670	523.0129	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29X45-INCH	LF	32.000	32.000
0680	523.0524	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH	EACH	3.000	3.000
0690	523.0529	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH	EACH	2.000	2.000
0700	532.0200.S	WALL MODULAR BLOCK GRAVITY	SF	175.000	175.000
0710	550.0500	PILE POINTS	EACH	62.000	62.000
0720	550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	2,820.000	2,820.000
0730	601.0405	CONCRETE CURB & GUTTER 18-INCH TYPE A	LF	838.000	838.000
0740	601.0409	CONCRETE CURB & GUTTER 30-INCH TYPE A	LF	4,860.000	4,860.000
0750	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	2,813.000	2,813.000
0760	601.0551	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	LF	752.000	752.000
0770	601.0553	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	LF	1,193.000	1,193.000

3

DATE 01OCT14 E S T I M A T E O F Q U A N T I T I E S

LINE 8110-02-72

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	8110-02-72 QUANTITY
0780	601.0555	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A	LF	356.000	356.000
0790	601.0557	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	LF	7,349.000	7,349.000
0800	601.0580	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	LF	802.000	802.000
0810	601.0582	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	LF	401.000	401.000
0820	601.0600	CONCRETE CURB PEDESTRIAN	LF	883.000	883.000
0830	602.0415	CONCRETE SIDEWALK 6-INCH	SF	73,288.000	73,288.000
0840	602.0515	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA	SF	584.000	584.000
0850	603.1142	CONCRETE BARRIER TYPE S42	LF	100.000	100.000
0860	603.8000	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	LF	5,000.000	5,000.000
0870	603.8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	5,000.000	5,000.000
0880	606.0200	RIPRAP MEDIUM	CY	1,322.000	1,322.000
0890	608.0312	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	LF	233.000	233.000
0900	608.0318	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	2,369.000	2,369.000
0910	608.0324	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	789.000	789.000
0920	608.0336	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH	LF	394.000	394.000
0930	610.0124	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24X38-INCH	LF	169.000	169.000
0940	611.0610	INLET COVERS TYPE BW	EACH	2.000	2.000
0950	611.0624	INLET COVERS TYPE H	EACH	40.000	40.000
0960	611.0627	INLET COVERS TYPE HM	EACH	34.000	34.000
0970	611.0642	INLET COVERS TYPE MS	EACH	25.000	25.000
0980	611.0652	INLET COVERS TYPE T	EACH	9.000	9.000
0990	611.3004	INLETS 4-FT DIAMETER	EACH	38.000	38.000
1000	611.3225	INLETS 2X2.5-FT	EACH	5.000	5.000
1010	611.3230	INLETS 2X3-FT	EACH	42.000	42.000
1020	611.3902	INLETS MEDIAN 2 GRATE	EACH	12.000	12.000
1030	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	670.000	670.000
1040	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	3.000	3.000
1050	614.0220	STEEL THRIE BEAM BULLNOSE TERMINAL	EACH	2.000	2.000
1060	614.0230	STEEL THRIE BEAM	LF	175.000	175.000
1070	614.0395	GUARDRAIL MOW STRIP CONCRETE	SY	40.000	40.000
1080	614.0905	CRASH CUSHIONS TEMPORARY	EACH	3.000	3.000
1090	614.2500	MGS THRIE BEAM TRANSITION	LF	78.000	78.000
1100	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	2.000	2.000
1110	616.0100	FENCE WOVEN WIRE (HEIGHT) 01. 4.5'	LF	20,313.000	20,313.000
1120	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 8110-02-72	EACH	1.000	1.000
1130	619.1000	MOBILIZATION	EACH	1.000	1.000
1140	620.0300	CONCRETE MEDIAN SLOPED NOSE	SF	1,290.000	1,290.000
1150	623.0200	DUST CONTROL SURFACE TREATMENT	SY	135,779.000	135,779.000
1160	624.0100	WATER	MGAL	4,763.000	4,763.000
1170	625.0500	SALVAGED TOPSOIL	SY	353,780.000	353,780.000
1180	627.0200	MULCHING	SY	352,816.000	352,816.000

3

DATE 01OCT14 E S T I M A T E O F Q U A N T I T I E S

LINE 8110-02-72

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
1190	628.1104	EROSION BALES	EACH	500.000	500.000
1200	628.1504	SILT FENCE	LF	16,950.000	16,950.000
1210	628.1520	SILT FENCE MAINTENANCE	LF	16,950.000	16,950.000
1220	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	10.000	10.000
1230	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	10.000	10.000
1240	628.1920	CLEANING SEDIMENT BASINS	CY	1,000.000	1,000.000
1250	628.2023	EROSION MAT CLASS II TYPE B	SY	30,640.000	30,640.000
1260	628.6510	SOIL STABILIZER TYPE B	ACRE	33.000	33.000
1270	628.7005	INLET PROTECTION TYPE A	EACH	13.000	13.000
1280	628.7010	INLET PROTECTION TYPE B	EACH	9.000	9.000
1290	628.7015	INLET PROTECTION TYPE C	EACH	76.000	76.000
1300	628.7504	TEMPORARY DITCH CHECKS	LF	2,746.000	2,746.000
1310	628.7555	CULVERT PIPE CHECKS	EACH	57.000	57.000
1320	628.7560	TRACKING PADS	EACH	4.000	4.000
1330	628.7570	ROCK BAGS	EACH	108.000	108.000
1340	629.0210	FERTILIZER TYPE B	CWT	222.600	222.600
1350	630.0120	SEEDING MIXTURE NO. 20	LB	7,893.000	7,893.000
1360	630.0140	SEEDING MIXTURE NO. 40	LB	357.000	357.000
1370	630.0200	SEEDING TEMPORARY	LB	1,307.000	1,307.000
1380	630.0300	SEEDING BORROW PIT	LB	981.000	981.000
1390	630.0400	SEEDING NURSE CROP	LB	209.000	209.000
1400	633.1100	DELINEATORS TEMPORARY	EACH	300.000	300.000
1410	633.5200	MARKERS CULVERT END	EACH	32.000	32.000
1420	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	16.000	16.000
1430	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	53.000	53.000
1440	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	86.000	86.000
1450	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	16.000	16.000
1460	634.0620	POSTS WOOD 4X6-INCH X 20-FT	EACH	10.000	10.000
1470	637.0620	SIGN FLAGS PERMANENT TYPE II	EACH	68.000	68.000
1480	637.2210	SIGNS TYPE II REFLECTIVE H	SF	1,540.050	1,540.050
1490	637.2230	SIGNS TYPE II REFLECTIVE F	SF	437.250	437.250
1500	638.2101	MOVING SIGNS TYPE I	EACH	1.000	1.000
1510	638.2102	MOVING SIGNS TYPE II	EACH	16.000	16.000
1520	638.2602	REMOVING SIGNS TYPE II	EACH	35.000	35.000
1530	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	32.000	32.000
1540	638.4000	MOVING SMALL SIGN SUPPORTS	EACH	17.000	17.000
1550	638.4100	MOVING STRUCTURAL STEEL SIGN SUPPORTS	EACH	2.000	2.000
1560	642.5401	FIELD OFFICE TYPE D	EACH	1.000	1.000
1570	643.0200	TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (PROJECT) 01. 8110-02-72	DAY	310.000	310.000
1580	643.0300	TRAFFIC CONTROL DRUMS	DAY	57,880.000	57,880.000
1590	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	5,844.000	5,844.000
1600	643.0453	TRAFFIC CONTROL BARRICADES PERMANENT TYPE III	EACH	38.000	38.000
1610	643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	EACH	457.000	457.000
1620	643.0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	354.000	354.000
1630	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	11,688.000	11,688.000
1640	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	12,230.000	12,230.000
1650	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	5.000	5.000
1660	643.0900	TRAFFIC CONTROL SIGNS	DAY	17,784.000	17,784.000
1670	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	37.000	37.000
1680	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	96.000	96.000

3

DATE 01OCT14 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	8110-02-72 QUANTITY
1690	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 8110-02-72	EACH	1.000	1.000
1700	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	9,224.000	9,224.000
1710	645.0105	GEOTEXTILE FABRIC TYPE C	SY	590.000	590.000
1720	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	4,285.000	4,285.000
1730	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	46,305.000	46,305.000
1740	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	1,620.000	1,620.000
1750	646.0600	REMOVING PAVEMENT MARKINGS	LF	13,917.000	13,917.000
1760	646.0790.S	REMOVING RAISED PAVEMENT MARKERS	EACH	232.000	232.000
1770	646.0843.S	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH	LF	795.000	795.000
1780	646.0883.S	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH	LF	455.000	455.000
1790	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	13.000	13.000
1800	647.0456	PAVEMENT MARKING CURB EPOXY	LF	75.000	75.000
1810	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	115.000	115.000
1820	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	8.000	8.000
1830	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	415.000	415.000
1840	647.0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	390.000	390.000
1850	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	17,900.000	17,900.000
1860	649.2100	TEMPORARY RAISED PAVEMENT MARKERS	EACH	232.000	232.000
1870	650.4000	CONSTRUCTION STAKING STORM SEWER	EACH	131.000	131.000
1880	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	42,023.000	42,023.000
1890	650.5000	CONSTRUCTION STAKING BASE	LF	32,690.000	32,690.000
1900	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	11,456.000	11,456.000
1910	650.6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	16.000	16.000
1920	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-55-226	LS	1.000	1.000
1930	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 02. C-55-35	LS	1.000	1.000
1940	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 03. C-55-36	LS	1.000	1.000
1950	650.7000	CONSTRUCTION STAKING CONCRETE PAVEMENT	LF	11,310.000	11,310.000
1960	650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 01. 8110-02-72	LS	1.000	1.000
1970	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 8110-02-72	LS	1.000	1.000
1980	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	50,556.000	50,556.000
1990	652.0110	CONDUIT RIGID METALLIC 1-INCH	LF	10.000	10.000
2000	652.0210	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH	LF	240.000	240.000
2010	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	7,255.000	7,255.000
2020	652.0235	CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	LF	485.000	485.000
2030	653.0135	PULL BOXES STEEL 24X36-INCH	EACH	2.000	2.000
2040	653.0140	PULL BOXES STEEL 24X42-INCH	EACH	39.000	39.000
2050	653.0220	JUNCTION BOXES 18X6X6-INCH	EACH	4.000	4.000
2060	653.0222	JUNCTION BOXES 18X12X6-INCH	EACH	2.000	2.000
2070	654.0106	CONCRETE BASES TYPE 6	EACH	37.000	37.000
2080	654.0230	CONCRETE CONTROL CABINET BASES TYPE L30	EACH	2.000	2.000
2090	655.0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	10,825.000	10,825.000
2100	655.0620	ELECTRICAL WIRE LIGHTING 8 AWG	LF	10,910.000	10,910.000
2110	655.0625	ELECTRICAL WIRE LIGHTING 6 AWG	LF	25,270.000	25,270.000

3

DATE 01OCT14 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	8110-02-72 QUANTITY
2120	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. CB100	LS	1.000	1.000
2130	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 02. CB200	LS	1.000	1.000
2140	657.0255	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	EACH	37.000	37.000
2150	657.0327	POLES TYPE 6-ALUMINUM	EACH	39.000	39.000
2160	657.0715	LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT	EACH	56.000	56.000
2170	657.6005.S	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	2.000	2.000
2180	659.1120	LUMINAIRES UTILITY LED B	EACH	56.000	56.000
2190	659.1205	LUMINAIRES UNDERDECK LED A	EACH	10.000	10.000
2200	659.2130	LIGHTING CONTROL CABINETS 120/240 30-INCH	EACH	2.000	2.000
2210	690.0150	SAWING ASPHALT	LF	382.000	382.000
2220	690.0250	SAWING CONCRETE	LF	52.000	52.000
2230	715.0415	INCENTIVE STRENGTH CONCRETE PAVEMENT	DOL	13,096.000	13,096.000
2240	715.0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	10,552.000	10,552.000
2250	SPV.0060	SPECIAL 11. TRAFFIC CONTROL SIGNS SPECIAL	EACH	69.000	69.000
2260	SPV.0060	SPECIAL 12. JUNCTION BOXES 4X4X4-INCH	EACH	10.000	10.000
2270	SPV.0060	SPECIAL 20. CONSTRUCTION STAKING STORMWATER POND	EACH	3.000	3.000
2280	SPV.0060	SPECIAL 31. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2	EACH	4.000	4.000
2290	SPV.0060	SPECIAL 33. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS	EACH	14.000	14.000
2300	SPV.0060	SPECIAL 35. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2	EACH	4.000	4.000
2310	SPV.0060	SPECIAL 38. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3R	EACH	4.000	4.000
2320	SPV.0060	SPECIAL 39. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC WORDS	EACH	11.000	11.000
2330	SPV.0060	SPECIAL 40. TRAFFIC CONTROL, VERTICAL PANELS	EACH	298.000	298.000
2340	SPV.0085	SPECIAL 10. NATIVE BUTTERFLY SEED MIX	LB	105.000	105.000
2350	SPV.0090	SPECIAL 20. CONSTRUCTION STAKING SELECT SUBGRADE	LF	27,399.000	27,399.000
2360	SPV.0090	SPECIAL 30. CONCRETE CURB AND GUTTER CURE AND SEAL TREATMENT	LF	19,064.000	19,064.000
2370	SPV.0090	SPECIAL 40. PAVEMENT MARKING CONTRAST GROOVED PR EFORMED THERMOPLASTIC CROSSWALK 6-INCH	LF	185.000	185.000
2380	SPV.0090	SPECIAL 41. PAVEMENT MARKING CONTRAST GROOVED PR EFORMED THERMOPLASTIC YIELD LINE 18-INC	LF	225.000	225.000
2390	SPV.0090	SPECIAL 50. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC YIELD LINE 18-INCH	LF	80.000	80.000
2400	SPV.0090	SPECIAL 60. CLEANING, GRADING & SHAPING EXISTING DITCH	LF	900.000	900.000
2410	SPV.0105	SPECIAL 05. RAILING STEEL TYPE C2 GALVANIZED PEDESTRIAN C-55-35	LS	1.000	1.000
2420	SPV.0105	SPECIAL 20. CONCRETE CRACK MITIGATION AND REPAIR SPECIAL	LS	1.000	1.000

3

DATE 01OCT14 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	8110-02-72 QUANTITY
2430	SPV.0105	SPECIAL 30. CONSTRUCTION STAKING CONCRETE PAVEMENT JOINT LAYOUT	LS	1.000	1.000
2440	SPV.0105	SPECIAL 40. CONSTRUCTION STAKING CONCRETE ROUNDABOUT EAST RAMP TERMINAL	LS	1.000	1.000
2450	SPV.0105	SPECIAL 41. CONSTRUCTION STAKING CONCRETE ROUNDABOUT WEST RAMP TERMINAL	LS	1.000	1.000
2460	SPV.0105	SPECIAL 42. CONSTRUCTION STAKING ROUNDABOUT STH 35/MAIN ST	LS	1.000	1.000
2470	SPV.0165	SPECIAL 10. CONCRETE SIDEWALK CURE AND SEAL TREATMENT	SF	73,288.000	73,288.000
2480	SPV.0180	SPECIAL 10. MODIFIED SLOPE PAVING CRUSHED AGREGATE	SY	635.000	635.000
2490	SPV.0180	SPECIAL 20. CONCRETE PAVEMENT 9.0-INCH SPECIAL	SY	14,521.000	14,521.000
2500	SPV.0180	SPECIAL 30. CONCRETE PAVEMENT 10.5-INCH SPECIAL	SY	20,511.000	20,511.000
2510	SPV.0180	SPECIAL 40. CONCRETE PAVEMENT APPROACH SLAB SPECIAL	SY	174.000	174.000
2520	SPV.0195	SPECIAL 01. QMP BASE AGGREGATE DENSE 1 1/4" COMPACTION	TON	50,094.000	50,094.000

3

201.0105 CLEARING
201.0205 GRUBBING

201-CLEAR-GRUB

CATEGORY	STATION TO	STATION	LOCATION	CLEARING 201.0105 STA	GRUBBING 201.0205 STA
0010	200+00 -	212+00	STH 64 EB	12	12
0010	200+00 -	212+00	STH 64 WB	12	12
0010	228+00 -	229+00	STH 64 WB	1	1
0010	229+00 -	230+00	STH 64 EB	1	1
0010	235+00 -	236+00	SETTLERS WAY	1	1
0010	243+00 -	244+00	STH 64 EB	1	1
0010	243+00 -	244+00	STH 64 WB	1	1
0010	243+00 -	244+00	FRONTAGE ROAD B	1	1
0010	244+00 -	257+00	STH 64 EB	13	13
0010	257+00 -	258+00	STH 64 WB	1	1
0010	257+00 -	258+00	FRONTAGE ROAD B	1	1
0010	262+00 -	263+00	STH 64 WB	1	1
0010	262+00 -	263+00	STH 64 EB	1	1
0010	262+00 -	263+00	FRONTAGE ROAD B	1	1
0010	267+00 -	268+00	STH 64 WB	1	1
0010	267+00 -	268+00	STH 64 EB	1	1
0010	270+00 -	277+00	STH 64 WB	7	7
0010	278+00 -	285+00	STH 64 WB	7	7
0010	222+00 -	223+00	FRONTAGE ROAD A	1	1
0010	230+00 -	231+00	FRONTAGE ROAD A	1	1
0010	243+00 -	247+00	FRONTAGE ROAD A	4	4
0010	9+00 -	13+00	SCHOOL ROAD	4	4
0010	17+00 -	19+00	CTH E/STH 35	2	2
0010	32+00 -	34+00	CTH E/STH 35	2	2
0010	46+00 -	47+00	CTH E/STH 35	1	1
			TOTAL 0010	79	79

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	LOCATION	203.0100 EACH	SIZE,TYPE,LENGTH
0010	224+50	FRONTAGE ROAD A	1	18" CMCP @ 33'
0010	265+50	STH 64 EB	1	18" CMCP @ 27'
0010	270+75	STH 64 WB	1	18" CMCP @ 22'
0010	40+00	CTH E	1	18" CMCP @ 35'
0010	46+20	CTH E	1	24" CMCP @ 48'
0010	49+75	CTH E	1	18" CMCP @ 124'
0010	52+75	CTH E	1	18" CMCP @ 27'
0010	54+50	CTH E	1	18" CMCP @ 34'
0010	250+15	FRONTAGE ROAD C	1	24" CMCP @ 73'
		TOTAL 0010	9	

REMOVING PAVEMENT

CATEGORY	STATION TO	STATION	LOCATION	204.0100 SY
0010	299+00 -	307+00	STH 64 EB	2310
0010	303+50 -	307+00	STH 64 WB	1010
			TOTAL 0010	3320

REMOVING FENCE

CATEGORY	STATION TO	STATION	LOCATION	204.0170 LF
0010	200+00 -	207+00	STH 64 EB	700
0010	211+50 -	211+80	STH 64 WB	30
0010	227+00 -	230+00	STH 64 WB	300
0010	227+00 -	230+00	STH 64 EB	300
0010	231+00 -	232+80	STH 64 WB	180
0010	236+00 -	239+60	STH 64 EB	360
0010	257+00 -	265+00	STH 64 EB	850
0010	270+00		FRONTAGE ROAD C	290
0010	266+50 -	269+50	STH 64 EB	320
0010	270+00 -	271+00	STH 64 EB	80
0010	287+50 -	290+00	STH 64 WB	250
0010	292+50 -	295+00	STH 64 WB	300
0010	6+70 -	7+25	STH 35/CTH E	320
0010	17+25 -	19+00	STH 35/CTH E	300
0010	17+75 -	19+40	STH 35/CTH E	300
0010	11+00 -	12+60	SCHOOL ROAD	190
0010	11+00 -	15+70	SCHOOL ROAD	510
0010	13+80 -	17+75	SCHOOL ROAD	415
0010	80+90 -	81+50	THELEN FARM TR	130
0010	2+30		DURAND P.E.	25
			TOTAL 0010	6150

SELECT BORROW

CATEGORY	STATION TO	STATION	LOCATION	208.1100 CY
0010	10+69 -	18+11	SCHOOL RD	2826
0010	80+83 -	81+42	THELEN FARM TR	187
0010	81+42 -	83+95	THELEN FARM TR	440
			TOTAL 0010	3453

FINISHING ROADWAY (8110-02-72)

CATEGORY	LOCATION	213.0100 EACH
0010	STH 64	1
	TOTAL 0010	1

Division	From / To Station	Common Excavation (1)	(item # 205.0100)	Salvaged / Unusable Pavement Material (4)	Available Material	Unexpanded Fill	Expanded Fill (5)	Mass Ordinate + / - (6)	Waste	Borrow	Comment:
		Cut	EBS Excavation (2)				Factor 1.25			(item #208.0100)	
Stage 1 South											
STH 35 Bypass	1+19/19+44	1,540	-	-	1,540	2,403	3,004	-1,464	-	1,464	
STH 35_CTH E	19+00/48+00	7,398	-	-	7,398	17,610	22,013	-14,615	-	14,615	
West RAB	5+00/09+10	205	-	-	205	4,911	6,138	-5,933	-	5,933	Waste material used in Stage 2 South.
East RAB	5+00/09+10	423	-	-	423	4,230	5,287	-4,865	-	4,865	
Glen Pond	201+21/214+13	76,023	-	-	76,023	1	1	76,021	76,021	-	
Stage 1 South Subtotal		85,588	-	-	85,588	29,155	36,444	49,144	76,021	26,877	
Stage 2 South											
STH 64 200-226+25	201+21/226+50	23,651	-	-	23,651	52,530	65,663	-42,012	-	42,012	
STH 35	200+00/314+85	5,271	-	-	5,271	9,436	11,795	-6,524	-	6,524	
STH 35/Main St RAB	5+05/09+11	4	-	-	4	10,446	13,058	-13,054	-	13,054	(7). Waste from
School Rd	10+50/18+00	2,526	-	-	2,526	1,278	1,597	929	929	-	Stage 1 South used.
NE Ramp	182+82/194+28	13	-	-	13	7,750	9,687	-9,674	-	9,674	7,178 CY Borrow
NW Ramp	181+70/198+77	20,728	-	-	20,728	4,374	5,468	15,260	15,260	-	required.
SE Ramp	167+67/181+19	1,136	-	-	1,136	893	1,116	20	20	-	
SW Ramp	167+64/180+20	69	-	-	69	1,069	1,336	-1,267	-	1,267	
Stage 2 South Subtotal		53,397	-	-	53,397	87,776	109,720	-56,322	16,209	72,532	
Stage 2 North											
STH 64	230+62/305+20	151,717	-	-	151,717	95,681	119,601	32,116	32,116	-	
Frontage Rd. A	230+18/248+61]	53,339	-	-	53,339	19,256	24,070	29,269	29,269	-	
Kilbane Berm (Category 0040)	230+08/247+84	1,692	-	-	1,692	39,044	48,804	-47,113	-	47,113	
Frontage Rd. B	242+36/265+00	16,195	-	-	16,195	17,769	22,212	-6,017	-	6,017	
Frontage Rd. B Cul du sac		325	-	-	325	160	199	126	126	-	
STH 64 WB Temp Connection	221+50/233+50	495	-	-	495	4,234	5,292	-4,798	-	4,798	
Stage 2 North Subtotal		223,763	-	-	223,763	176,143	220,179	3,583	61,511	57,927	
Stage 3 South											
STH 64 - CTH E Gap & Bridge Pier	178+70/185+50	8,497	-	-	8,497	602	752	7,745	7,745	-	
Pond E	304+75/307+75	4,952	-	-	4,952	-	-	4,952	4,952	-	
STH 35	6+58/18+50	16,429	-	-	16,429	6,520	8,150	8,279	8,279	-	(8). Waste from Stage 3 North used.
CTH E	40+50/54+94	1,135	-	-	1,135	38,005	47,506	-46,370	-	46,370	
Thelen Farm	81+00/83+93	1,185	-	-	1,185	120	150	1,035	1,035	-	
Stage 3 South Subtotal		32,199	-	-	32,199	45,246	56,558	-24,359	22,011	46,370	
Stage 3 North											
STH 64 EB	226+50/304+50	103,124	-	-	103,124	12,384	15,480	87,644	87,644	-	
Frontage Rd. C	233+35/272+67	8,778	-	-	8,778	5,998	7,497	1,281	1,281	-	
Stage 3 North Subtotal		111,902	-	-	111,902	18,382	22,977	88,925	88,925	-	
Category 0010 Total		505,157	-	-	505,157	317,659	397,074	108,083	264,677	156,594	
Category 0040 Total		1,692	-	-	1,692	39,044	48,804	-47,113	-	47,113	
Grand Total		506,849	-	-	506,849	356,703	445,878	60,971	264,677	203,706	
		Total Common Exc	**506,849**						**Total Borrow**	**7,178**	**CY**

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) EBS Excavation to be backfilled with Borrow material.
3) Reduced EBS in Fill - Excavated EBS material is useable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
4) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
5) Expanded Fill. Factor = 1.25

Expanded Fill = (Unexpanded Fill - Reduced EBS) * Fill Factor

6) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
7) Use 49,144 CY of material from Stage 1 South. 7,178 CY of Borrow required. Borrow Excavation item number 208.0100
8) Use 24,461 CY of material from Stage 3 North.

305.0110 BASE AGGREGATE DENSE 3/4-INCH
305.0120 BASE AGGREGATE DENSE 1 1/4-INCH
SPV.0195.01 SPECIAL (01. QMP BASE AGGREGATE DENSE 1 1/4" COMPACTION)

305-DENSE GRADED BASE

CATEGORY	STATION TO	STATION	LOCATION	BASE AGGREGATE DENSE 3/4-INCH 305.0110 TON	BASE AGGREGATE DENSE 1 1/4-INCH 305.0120 TON	SPECIAL (01. QMP BASE AGGREGATE DENSE 1 1/4" COMPACTION) SPV.0195.01 TON	REMARKS
0010	183+50 -	185+50	STH 64 EB	-	406	-	
0010	200+00 -	228+00	STH 35/64 EB	-	5,808	-	
0010	228+00 -	269+50	STH 35/64 EB	-	7,677	-	
0010	269+50 -	304+00	STH 35/64 EB	-	6,834	-	
0010	183+50 -	185+50	STH 64 WB	-	402	-	
0010	200+00 -	228+00	STH 35/64 WB	-	5,636	-	
0010	228+00 -	269+50	STH 35/64 WB	3,772	8,260	8,260	
0010	269+50 -	304+00	STH 35/64 WB	2,970	6,823	6,823	
0010	175+75 -	179+46	SE RAMP	52	669	-	
0010	179+46 -	181+95	SE RAMP	-	239	-	LT LANE
0010	179+46 -	181+76	SE RAMP	-	218	-	RT TURN LANE
0010	176+00 -	180+53	SW RAMP	179	738	-	
0010	180+53 -	181+19	SW RAMP	11	98	-	
0010	182+33 -	183+21	NE RAMP	-	84	-	
0010	183+21 -	200+00	NE RAMP	186	2,395	-	
0010	181+21 -	183+06	NW RAMP	-	192	-	LT LANE
0008	181+06 -	183+06	NW RAMP	-	196	-	RT TURN LANE
0009	183+06 -	184+75	NW RAMP	49	343	-	
0010	184+75 -	194+00	NW RAMP	128	1,448	-	
0010	218+50 -	233+61	FRONTAGE ROAD A	456	3,744	-	
0010	233+61 -	237+08	FRONTAGE ROAD A	115	861	-	
0010	237+08 -	239+83	FRONTAGE ROAD A	87	679	-	
0010	239+83 -	242+40	FRONTAGE ROAD A	93	640	-	
0010	242+40 -	243+21	FRONTAGE ROAD A	15	232	-	
0010	243+21 -	246+75	FRONTAGE ROAD A	118	1,290	-	
0010	243+00 -	243+51	FRONTAGE ROAD B	17	200	-	
0010	243+51 -	250+00	FRONTAGE ROAD B	114	1,980	-	
0010	250+00 -	265+25	FRONTAGE ROAD B	263	4,190	-	
0010	CUL DE SAC		FRONTAGE ROAD B	12	545	-	
			SUBTOTAL - SHEET 1: 0010	8,637	62,827	15,083	

305-DENSE GRADED BASE

CATEGORY	STATION TO	STATION	LOCATION	BASE AGGREGATE DENSE 3/4-INCH 305.0110 TON	BASE AGGREGATE DENSE 1 1/4-INCH 305.0120 TON	SPECIAL (01. QMP BASE AGGREGATE DENSE 1 1/4" COMPACTION) SPV.0195.01 TON	REMARKS
0010	233+42 -	233+96	FRONTAGE ROAD C	9	68	-	
0010	233+96 -	257+00	FRONTAGE ROAD C	200	1,620	-	
0010	257+00 -	267+76	FRONTAGE ROAD C	389	2,745	-	
0010	267+76 -	271+62	FRONTAGE ROAD C	127	940	-	
0010	271+62 -	272+67	FRONTAGE ROAD C	16	205	-	
0010	80+83 -	81+42	THELEN FARM TR	9	116	-	
0010	81+42 -	83+95	THELEN FARM TR	40	445	-	
0010	10+91 -	18+00	SCHOOL RD	45	1,971	-	
0010	297+60 -	301+45	STH 35 NB	77	548	548	
0010	301+45 -	307+79	STH 35 NB	76	1,332	1,332	
0010	309+84 -	312+44	OLD STH 35 NB	-	399	399	
0010	312+44 -	317+78	OLD STH 35 NB	92	916	916	
0010	297+89 -	301+44	STH 35 SB	77	479	479	
0010	301+44 -	307+85	STH 35 SB	108	902	902	
0010	307+79 -	309+84	STH 35/MAIN ST RAB	-	959	959	
0010	309+88 -	312+48	OLD STH 35 SB	-	319	319	
0010	312+48 -	317+84	OLD STH 35 SB	59	943	943	
0010	5+65 -	18+94	STH 35 EB	329	2,665	2,665	
0010	18+94 -	27+76	STH 35 EB	160	1,824	1,824	
0010	27+76 -	40+79	STH 35 EB/WB	-	15,666	15,666	RAB AREA
0010	40+79 -	49+64	STH 35 EB	274	1,305	1,305	
0010	49+64 -	54+94	STH 35 EB	59	636	636	
0010	5+65 -	18+96	STH 35 WB	415	2,140	2,140	
0010	18+96 -	28+03	STH 35 WB	-	1,857	1,857	
0010	40+59 -	49+59	STH 35 WB	26	1,457	1,457	
0010	49+59 -	55+10	STH 35 WB	58	664	664	
0010	0+00 -	19+30	STH 35 BYPASS	296	2,068	-	
0010	221+24 -	234+00	STH 64 TEMP CONNECTION	287	1,451	-	
0010	244+50 -	246+53	STH 64 TO FR B	101	1,350	-	
0010	241+72 -	249+64	STH 64 BYPASS LANE	539	3,071	-	
0010			SHARED USE PATH	-	1,974	-	
			SUBTOTAL - SHEET 2: 0010	3,868	53,035	35,011	

305-DENSE GRADED BASE

CATEGORY	STATION TO STATION	LOCATION	BASE AGGREGATE DENSE 3/4-INCH 305.0110 TON	BASE AGGREGATE DENSE 1 1/4-INCH 305.0120 TON	SPECIAL (01. QMP BASE AGGREGATE DENSE 1 1/4" COMPACTION) SPV.0195.01 TON	REMARKS
0010	301+42 - 303+00	STH 35 NB - LINE J	59	-	-	
0010	306+25 - 307+71	STH 35 NB - LINE J	96	-	-	
0010	306+26 - 308+46	STH 35 NB - LINE J	99	-	-	
0010	309+88 - 312+44	MAIN ST NB - LINE J	87	-	-	
0010	5+87 - 7+00	STH 35 NB - LINE G	70	-	-	
0010	16+40 - 19+35	STH 35 NB - LINE G	79	-	-	
0010	20+50 - 24+09	STH 35 NB - LINE G	46	-	-	
0010	27+71 - 29+25	STH 35 NB - LINE G	198	-	-	
0010	27+83 - 29+92	STH 35 NB - LINE G	93	-	-	
0010	31+37 - 33+06	STH 35 NB - LINE G	47	-	-	
0010	36+77 - 37+44	STH 35 NB - LINE G	28	-	-	
0010	39+54 - 40+75	CTH E EB - LINE G	135	-	-	
0010	43+00 - 44+70	CTH E EB - LINE G	60	-	-	
0010	179+51 - 181+70	SE RAMP - LINE D	124	-	-	
0010	180+81 - 183+00	NW RAMP - LINE E	124	-	-	
		SUBTOTAL - SHEET 3: 0010	1,345	0	0	
		TOTAL 0010	13,850	115,862	50,094	

3

MILL AND RELAY

CATEGORY	STATION TO STATION	LOCATION	330.0100 SY	REMARKS
0010	240+19 - 257+00	FR C	4861	2" DEPTH
		TOTAL 0010	4861	

DRILLED DOWEL BARS

CATEGORY	STATION	LOCATION	416.0620 EACH	REMARKS
0010	304+50	STH 35/64 WB	24	CONSTRUCTION JOINT
		TOTAL 0010	24	

3

405.0100 COLORING CONCRETE RED
416.0508 CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

405-COLORING-CONCRETE-TRC

CATEGORY	STATION TO STATION	LOCATION	405.0100 CY	416.0508 SY
0010	5+00 - 9+11	EAST TERM RAB	142	641
0010	5+00 - 9+11	WEST TERM RAB	142	641
0010	5+00 - 9+11	MAIN ST/EXISTING STH 35 RAB	142	641
		TOTAL 0010	426	1923

CONCRETE RUMBLE STRIPS SHOULDER

CATEGORY	LOCATION	416.1110 LF	REMARKS
0010	235+00 - 304+50	6950	STH 64 W.B. OUTSIDE PAVEMENT EDGE
	TOTAL 0010	6950	

3

455.0110 ASPHALTIC MATERIAL PG58-34
455.0605 TACK COAT
460.1100 HMA PAVEMENT TYPE E-0.3

ASPHALTIC ITEMS 1

CATEGORY	STATION	TO	STATION	LOCATION	455.0110 TON	455.0605 GAL	460.1100 TON	REMARKS
0010	230+00	-	304+00	STH 35/64 WB	61	125	1,105	OUTSIDE SHLD
0010	230+00	-	304+00	STH 35/64 WB	31	63	553	INSIDE SHLD
0010	177+11	-	177+75	SE RAMP	1	1	8	OUTSIDE SHLD
0010	177+11		179+46	SE RAMP	1	2	18	INSIDE SHLD
0010	178+00		180+53	SW RAMP	2	4	32	OUTSIDE SHLD
0010	178+00		180+94	SW RAMP	2	3	22	INSIDE SHLD
0010	183+21		185+50	NE RAMP	2	4	29	OUTSIDE SHLD
0010	183+21		185+50	NE RAMP	1	2	17	INSIDE SHLD
0010	184+75		186+35	NE RAMP	2	3	20	OUTSIDE SHLD
0010	183+06		186+35	NW RAMP	2	3	25	INSIDE SHLD
				TOTAL 0010	105	210 *	1,829	

*QUANTITY SHOWN ELESWHERE IN PLAN

455.0145 ASPHALTIC MATERIAL PG64-34P
455.0605 TACK COAT
460.1103 HMA PAVEMENT TYPE E-3

ASPHALTIC ITEMS 2

CATEGORY	STATION TO STATION	LOCATION	455.0145 TON	455.0605 GAL	460.1103 TON
0010	5+65 - 18+94	STH 35 NB	78	189	1402
0010	18+94 - 27+76	STH 35 NB	57	138	1023
0010	5+65 - 18+96	STH 35 SB	54	131	973
0010	18+96 - 28+03	STH 35 SB	63	154	1141
0010	40+79 - 44+75	CTH E EB	16	38	279
0010	40+59 - 44+75	CTH E WB	18	44	325
0010	44+75 - 55+10	CTH E	93	228	1688
0010	218+50 - 233+61	FRONTAGE ROAD A	47	95	842
0010	233+61 - 237+08	FRONTAGE ROAD A	11	22	190
0010	237+08 - 239+83	FRONTAGE ROAD A	9	17	150
0010	239+83 - 242+40	FRONTAGE ROAD A	8	17	144
0010	242+40 - 243+21	FRONTAGE ROAD A	4	8	69
0010	243+21 - 246+75	FRONTAGE ROAD A	17	34	302
0010	243+00 - 243+51	FRONTAGE ROAD B	2	4	28
0010	243+51 - 250+00	FRONTAGE ROAD B	20	40	355
0010	250+00 - 265+25	FRONTAGE ROAD B	46	94	835
0010	CUL DE SAC	FRONTAGE ROAD B	11	21	186
0010	233+42 - 233+96	FRONTAGE ROAD C	1	2	15
0010	233+96 240+19	FRONTAGE ROAD C MILL/RELAY	20	41	360
0010	257+00 - 267+76	FRONTAGE ROAD C	33	67	592
0010	267+76 - 271+62	FRONTAGE ROAD C	12	24	211
0010	271+62 - 272+67	FRONTAGE ROAD C	2	3	23
0010	80+83 - 81+42	THELEN FARM TRAIL	20	30	356
0010	10+91 - 18+00	SCHOOL RD	54	80	967
0010	297+60 - 301+45	STH 35	33	81	600
0010	301+45 - 306+30	STH 35 NB	32	78	574
0010	301+44 - 307+85	STH 35 SB	27	65	476
0010	306+30 - 308+45	STH 35 NB LT	8	18	129
0010	306+30 - 308+45	STH 35 NB RT	7	16	119
0010	307+79 - 309+84	STH 35/MAIN ST RAB	25	59	437
0010	309+84 - 312+45	OLD STH 35 NB	10	15	174
0010	309+88 - 312+45	OLD STH 35 SB	10	14	166
0010	312+45 - 314+75	OLD STH 35	24	35	419
		TOTAL 0010	872	1902 *	15550

*QUANTITY SHOWN ELESWHERE IN PLAN

3

ASPHALTIC SURFACE

CATEGORY	LOCATION	465.0105 TON	REMARKS
0010	PATH	43	NE OF EAST TERM RAB
0010	PATH	43	NW OF EAST TERM RAB
0010	PATH	11	SE OF EAST TERM RAB
0010	PATH	74	NE OF WEST TERM RAB
0010	PATH	319	NW OF WEST TERM RAB/SCHOOL ROAD
0010	PATH	19	SE OF STH 35/MAIN ST RAB
0010	PATH	50	NE OF STH 35/MAIN ST RAB
0010	PATH	63	W OF STH 35/MAIN ST RAB
	TOTAL 0010	622	

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

CATEGORY	STATION TO STATION	LOCATION	465.0120 TON	REMARKS
0010	10+75 - 12+21	PLAHN PE	50	CTH E
0010	9+08	PETERSON ST	22	2 PE
0010	313+00	MAIN ST	20	COUNTY SHOP
0010	15+19	SCHOOL RD	11	FE JOYCE
0010	50+01	CTH E	15	JOINT FE
0010	54+39	CTH E	11	PE FAGERLUND
0010	54+73	CTH E	11	PE RENEAU
0010	84+84	THELEN FARM TR	11	FE GILLSTROM
0010	224+52	FR-A	11	FE MONTAGNE
0010	230+85	FR-A	11	PE KILBANE
0010	266+01	FR-B	11	PE SUTTER
0010	266+55	FR-C	11	PE DALTON
0010	270+80	FR-C	11	PE BOUMEESTER
0010	272+84	FR-C	11	FE DALTON
		TOTAL 0010	217	

ASPHALTIC SURFACE TEMPORARY

CATEGORY	STATION TO STATION	LOCATION	465.0125 TON	REMARKS
0010	0+00 - 19+30	STH 35 N/S	1175	TEMP BYPASS STAGE 1
0010	221+24 - 234+00	STH 35/64	1041	TEMP CONNECITON STAGE 2
0010	244+50 - 246+53	STH 64 TO FR B	80	ANDERSON SCOUT CAMP TEMP CONN
0010	241+72 - 249+64	STH 64 BYPASS LANE	152	
		TOTAL 0010	2448	

ASPHALTIC FLUMES

CATEGORY	STATION	LOCATION	465.0315 SY	REMARKS
0010		PETERSON RD	21	1 FLUME
0010	306+78	STH 35 SB	21	1 FLUME
0010	304+60	STH 35 NB	21	1 FLUME
0010	6+68	STH 35 EB	21	1 FLUME
0010	33+40	STH 35 EB	21	1 FLUME
0010	34+37	STH 35 WB	21	1 FLUME
0010	180+45	SW RAMP	21	1 FLUME
0010	180+85	SW RAMP	21	1 FLUME
0010	184+83	NW RAMP	21	1 FLUME
0010	177+70	SE RAMP	21	1 FLUME
0010	179+30	SE RAMP	21	1 FLUME
0010	183+28	NE RAMP	42	2 FLUMES
0010	40+78	CTH E	21	1 FLUME
0010	289+84	STH 64 WB	21	1 FLUME
0010	80+75	THELEN FARM TR	21	1 FLUME
0010	80+90	THELEN FARM TR	21	1 FLUME
		TOTAL 0010	357	

ASPHALTIC SHOULDER RUMBLE STRIPS

CATEGORY	STATION TO STATION	LOCATION	465.0400 LF	REMARKS
0010	235+00 - 304+50	STH 35/64	6,950	INSIDE
0010	297+60 - 304+56	STH 35 NB	700	RIGHT
0010	297+60 - 306+74	STH 35 NB	915	LEFT
0010	6+58 - 13+90	STH 35 NB	731	RIGHT
0010	21+45 - 24+23	STH 35 NB	278	RIGHT
0010	7+80 - 18+29	STH 35 NB	1,060	LEFT
		TOTAL 0010	10,634	

CULVERT PIPES CHART

PIPE NAME	STR NAME	ROAD NAME	REF LINE	REF STATION	OFFSET	JOINT TIES REQ'D	521.0118 CP CS 18-INCH	521.0124 CP CS 24-INCH	521.1018 AE CPS 18-INCH	521.1024 AE CPS 24-INCH	522.0118 CP RC III 18-INCH	522.0124 CP RC III 24-INCH	522.0130 CP RC III 30-INCH	522.0148 CP RC III 48-INCH	522.0324 CP RC IV 24-INCH	522.1018 * AE RC 18-INCH	522.1024 * AE RC 24-INCH	522.1030 AE RC 30-INCH	522.1048 AE RC 48-INCH	523.0124 RC HE-III 24X38-INCH	523.0129 RC HE-III 29X45-INCH	523.0524 * AE RC HE-III 24X38-INCH	523.0529 AE RC HE-III 29X45-INCH	633.5200 * MARKERS CULVERT END
P-3	3A	STH 35/64 EB	LINE A	211+48.09	-131.91'	6											1							
	3X	STH 35/64 EB	LINE A	211+71.27	50.56'	6						184					1							1
P-8	8A	STH 35/64 EB	LINE A	233+25.24	-193.81'	6													1					1
	8X	STH 35/64 EB	LINE A	232+81.40	58.14'	6								256					1					1
P-11	11A	STH 35/64 EB	LINE A	263+22.37	-41.11'	6														64		1		1
	11X	STH 35/64 EB	LINE A	263+13.36	-104.45'	6																1		1
P-14	14A	STH 35/64 EB	LINE A	286+49.91	-109.12'	6										1								1
	14X	STH 35/64 EB	LINE A	289+93.87	-105.45'	6					344					1								1
P-16	16A	FRONTAGE ROAD A	LINE T	224+64.53	-32.92'	6				1														
	16X	FRONTAGE ROAD A	LINE T	224+40.55	-37.25'	6		24		1														
P-18	18A	FRONTAGE ROAD A	LINE T	242+06.31	-190.78'	6										1								1
	18X	FRONTAGE ROAD A	LINE T	241+66.65	-230.31'	6					56					1								1
P-19	19A	FRONTAGE ROAD A	LINE T	243+41.63	42.36'	6													1					1
	19X	FRONTAGE ROAD A	LINE T	243+27.47	-36.37'	6								80					1					1
P-20	20A	FRONTAGE ROAD B	LINE U	260+70.00	15.41'	6															32		1	1
	20X	FRONTAGE ROAD B	LINE U	260+70.00	-16.59'	6																	1	1
P-21	21A	FRONTAGE ROAD B	LINE U	265+75.09	61.96'	6							120					1						1
	21X	FRONTAGE ROAD B	LINE U	265+08.66	-30.66'	6												1						1
P-23	23A	FRONTAGE ROAD C	LINE V	236+45.36	27.01'	6										1								1
	23X	FRONTAGE ROAD C	LINE V	235+96.82	-27.13'	6					72					1								1
P-34	34A	STH 35 NB	LINE G	19+12.92	96.15'	6							112					1						1
	34X	STH 35 NB	LINE G	20+27.66	104.11'	6												1						1
P-46	46A	CTH E EB	LINE G	46+02.28	-95.82'	6											1							
	46X	CTH E EB	LINE G	45+87.21	87.56'	6									184		1							
P-47	47A	CTH E EB	LINE G	51+22.52	-69.32'	6											1							
	47X	CTH E EB	LINE G	51+04.39	73.53'	6						144					1							
P-52	52A	CTH E EB	LINE G	52+99.01	48.82'	6																		
	52X	CTH E EB	LINE G	52+19.28	55.339'	6	80		1															
P-54	54A	STH 35 NB	LINE J	306+39.27	83.80'	6																		
	54X	STH 35 NB	LINE J	306+62.45	-66.40'	6						152					1							
					TOTAL:		**80**	**24**	**2**	**2**	**472**	**480**	**232**	**336**	**184**	**6**	**8**	**4**	**4**	**64**	**32**	**2**	**2**	**19**

* QUANTITY ELSEWHERE IN PLAN

521.0118 CP CS 18-INCH	521.0124 CP CS 24-INCH	521.1018 AE CPS 18-INCH	521.1024 AE CPS 24-INCH	522.0118 CP RC III 18-INCH	522.0124 CP RC III 24-INCH	522.0130 CP RC III 30-INCH	522.0148 CP RC III 48-INCH	522.0324 CP RC IV 24-INCH	522.1018 * AE RC 18-INCH	522.1024 * AE RC 24-INCH	522.1030 AE RC 30-INCH	522.1048 AE RC 48-INCH	523.0124 RC HE-III 24X38-INCH	523.0129 RC HE-III 29X45-INCH	523.0524 * AE RC HE-III 24X38-INCH	523.0529 AE RC HE-III 29X45-INCH	633.5200 * MARKERS CULVERT END

STORM SEWER CHART

STR NO	ROAD NAME	REF LINE	REF STATION	OFFSET	JOINT TIES REQ'D	522.1018 * AE RC 18-INCH	522.1024 * AE RC 24-INCH	522.1036 AE RC 36-INCH	523.0524 * AE RCHE 24X38-INCH	608.0312 SS RC III 12-INCH	608.0318 SS RC III 18-INCH	608.0324 SS RC III 24-INCH	608.0336 SS RC III 36-INCH	610.0124 SS RCHE III 24X38 INCH	611.0610 INLET COVER TYPE BW	611.0624 INLET COVER TYPE H	611.0627 INLET COVER TYPE HM	611.0642 * INLET COVER TYPE MS	611.0652 INLET COVER TYPE T	611.3004 INLETS 4-FT DIAMETER	611.3225 INLETS 2X2.5-FT	611.3230 INLETS 2X3-FT	611.3902 INLETS MEDIAN 2 GRATE	628.7005 INLET PROTECTION TYPE A	628.7010 INLET PROTECTION TYPE B	628.7015 INLET PROTECTION TYPE C	633.5200 * MARKERS CULVERT END	650.4000 CONST STAKING STORMSEWER
1A	STH 64 EB	LINE A	183+60.00	55.19'										85				2					1	1				1
1B	STH 64 EB	LINE A	183+60.00	-29.99'										84				2					1	1				1
1X	STH 64 EB	LINE A	183+60.00	-113.99'	6				1																		1	1
2A	STH 35/64 EB	LINE A	202+00.00	-33.59'								129						2					1	1				1
2X	STH 35/64 EB	LINE A	202+00.00	95.39'	6		1																				1	1
4A	STH 35/64 EB	LINE A	214+49.99	-35.21'								90						2					1	1				1
4X	STH 35/64 EB	LINE A	214+43.63	54.56'	6		1																					1
5A	STH 35/64 EB	LINE A	220+50.00	-32.28'							87							2					1	1				1
5X	STH 35/64 EB	LINE A	220+50.00	54.71'	6	1																					1	1
6A	STH 35/64 EB	LINE A	226+50.00	-29.90'								85						2					1	1				1
6X	STH 35/64 EB	LINE A	226+50.00	55.08'	6		1																				1	1
7A	STH 35/64 EB	LINE A	234+00.00	-32.04'							90							2					1	1				1
7X	STH 35/64 EB	LINE A	234+00.00	57.92'	6	1																					1	1
9A	STH 35/64 EB	LINE A	250+12.77	144.48'	6		1					67																1
9B	STH 35/64 EB	LINE A	250+14.64	77.51'								112						2					1	1				1
9C	STH 35/64 EB	LINE A	250+17.58	-34.38'									90					2					1	1				1
9D	STH 35/64 EB	LINE A	250+19.93	-124.05'									69					2					1	1				1
9X	STH 35/64 EB	LINE A	250+21.74	-193.03'	6			1																			1	1
10A	STH 35/64 EB	LINE A	258+25.00	58.75'	6			1					91														1	1
10B	STH 35/64 EB	LINE A	258+23.43	-32.24'									144					2					1	1				1
10X	STH 35/64 EB	LINE A	258+20.84	-176.21'	6			1																			1	1
12A	STH 35/64 EB	LINE A	274+85.18	-26.06'							84							2					1	1				1
12X	STH 35/64 EB	LINE A	274+65.64	-107.89'	6	1																					1	1
25A	STH 35 NB	LINE J	302+43.30	-26.50'						10							1				1					1		1
25B	STH 35 NB	LINE J	302+33.37	-25.30'								20					1				1					1		1
25C	STH 35 NB	LINE J	302+44.97	-5.40'						10							1				1					1		1
25D	STH 35 NB	LINE J	302+35.00	-5.42'								33					1			1						1		1
25X	STH 35 NB	LINE J	302+35.00	27.62'	6		1																				1	1
SUBTOTAL - SHEET 1:						**3**	**5**	**3**	**1**	**20**	**261**	**536**	**394**	**169**			**4**	**24**		**1**		**3**	**12**	**12**		**4**	**10**	**28**
						522.1018 * AE RC 18-INCH	522.1024 * AE RC 24-INCH	522.1036 AE RC 36-INCH	523.0524 * AE RCHE 24X38-INCH	608.0312 SS RC III 12-INCH	608.0318 SS RC III 18-INCH	608.0324 SS RC III 24-INCH	608.0336 SS RC III 36-INCH	610.0124 SS RCHE III 24X38-INCH	611.0610 INLET COVER TYPE BW	611.0624 INLET COVER TYPE H	611.0627 INLET COVER TYPE HM	611.0642 * INLET COVER TYPE MS	611.0652 INLET COVER TYPE T	611.3004 INLETS 4-FT DIAMETER	611.3225 INLETS 2X2.5-FT	611.3230 INLETS 2X3-FT	611.3902 INLETS MEDIAN 2 GRATE	628.7005 INLET PROTECTION TYPE A	628.7010 INLET PROTECTION TYPE B	628.7015 INLET PROTECTION TYPE C	633.5200 * MARKERS CULVERT END	650.4000 CONST STAKING STORMSEWER

* QUANTITY ELSEWHERE IN PLAN

3

STORM SEWER CHART

STR NO	ROAD NAME	REF LINE	REF STATION	OFFSET	JOINT TIES REQ'D	522.1018 * AE RC 18-INCH	522.1024 * AE RC 24-INCH	522.1036 AE RC 36-INCH	523.0524 * AE RCHE 24X38-INCH	608.0312 SS RC III 12-INCH	608.0318 SS RC III 18-INCH	608.0324 SS RC III 24-INCH	608.0336 SS RC III 36-INCH	610.0124 SS RCHE III 24X38 INCH	611.0610 INLET COVER TYPE BW	611.0624 INLET COVER TYPE H	611.0627 INLET COVER TYPE HM	611.0642 * INLET COVER TYPE MS	611.0652 INLET COVER TYPE T	611.3004 INLETS 4-FT DIAMETER	611.3225 INLETS 2X2.5-FT	611.3230 INLETS 2X3-FT	611.3902 INLETS MEDIAN 2 GRATE	628.7005 INLET PROTECTION TYPE A	628.7010 INLET PROTECTION TYPE B	628.7015 INLET PROTECTION TYPE C	633.5200 * MARKERS CULVERT END	650.4000 CONST STAKING STORMSEWER
26A	STH 35 NB	LINE J	306+34.24	-22.47'						21						1						1				1		1
26B	STH 35 NB	LINE J	306+34.24	-1.53'							21					1						1				1		1
26C	STH 35 NB	LINE J	306+34.24	19.53'							10					1						1				1		1
26D	STH 35 NB	LINE J	306+34.25	29.45'							19					1						1				1		1
26E	STH 35 NB	LINE J	306+34.24	48.85'							47						1			1						1		1
26X	STH 35 NB	LINE J	306+21.20	93.97'	6	1																					1	1
27A	STH 35 NB	LINE J	307+91.02	-37.80'						10									1		1				1			1
27B	STH 35 NB	LINE J	307+95.35	-29.13'							26								1	1					1			1
27C	STH 35 NB	LINE J	307+75.19	-16.76'							18					1				1						1		1
27D	STH 35 NB	LINE J	307+67.04	-1.53'							21					1				1						1		1
27E	STH 35 NB	LINE J	307+67.00	19.53'							33					1						1				1		1
27F	STH 35 NB	LINE J	307+66.99	52.69'							19					1				1						1		1
27G	STH 35 NB	LINE J	307+71.32	71.63'							42						1					1				1		1
27X	STH 35 NB	LINE J	307+91.95	112.57'	6	1																						1
28A	MAIN ST NB	LINE J	312+38.48	-33.11'						22						1						1				1		1
28B	MAIN ST NB	LINE J	312+38.59	-10.79'							9					1						1				1		1
28C	MAIN ST NB	LINE J	312+38.63	-1.53'							20					1						1				1		1
28D	MAIN ST NB	LINE J	312+38.73	18.53'							71					1				1						1		1
28X	MAIN ST NB	LINE J	313+10.83	28.27'	6	1																					1	1
30A	STH 35 NB	LINE G	7+74.98	-65.03'	6		1					24																1
30B	STH 35 NB	LINE G	7+66.02	-42.83'								10				1				1						1		1
30C	STH 35 NB	LINE G	7+56.04	-42.33'								22				1				1						1		1
30D	STH 35 NB	LINE G	7+66.04	-20.47'						10						1						1				1		1
30E	STH 35 NB	LINE G	7+56.04	-20.47'								26				1				1						1		1
30F	STH 35 NB	LINE G	7+48.11	-1.53'						10							1					1				1		1
30G	STH 35 NB	LINE G	7+38.11	-1.53'								85					1			1						1		1
30H	STH 35 NB	LINE G	6+53.04	-1.53'								23				1				1						1		1
30J	STH 35 NB	LINE G	6+52.77	21.50'								63					1			1						1		1
30X	STH 35 NB	LINE G	6+33.67	81.99'	6		1																					1
32A	STH 35 NB	LINE G	12+50.00	-25.42'							24						1					1				1	1	1
32B	STH 35 NB	LINE G	12+50.00	-1.53'							44						1					1				1		1
32X	STH 35 NB	LINE G	12+50.00	42.53'	6	1																						1
SUBTOTAL - SHEET 2:						**4**	**2**			**73**	**424**	**253**				**17**	**7**		**2**	**12**	**1**	**13**			**2**	**24**	**3**	**32**

* QUANTITY ELSEWHERE IN PLAN

522.1018 * AE RC 18-INCH | 522.1024 * AE RC 24-INCH | 522.1036 AE RC 36-INCH | 523.0524 * AE RCHE 24X38-INCH | 608.0312 SS RC III 12-INCH | 608.0318 SS RC III 18-INCH | 608.0324 SS RC III 24-INCH | 608.0336 SS RC III 36-INCH | 610.0124 SS RCHE III 24X38-INCH | 611.0610 INLET COVER TYPE BW | 611.0624 INLET COVER TYPE H | 611.0627 INLET COVER TYPE HM | 611.0642 * INLET COVER TYPE MS | 611.0652 INLET COVER TYPE T | 611.3004 INLETS 4-FT DIAMETER | 611.3225 INLETS 2X2.5-FT | 611.3230 INLETS 2X3-FT | 611.3902 INLETS MEDIAN 2 GRATE | 628.7005 INLET PROTECTION TYPE A | 628.7010 INLET PROTECTION TYPE B | 628.7015 INLET PROTECTION TYPE C | 633.5200 * MARKERS CULVERT END | 650.4000 CONST STAKING STORMSEWER

STORM SEWER CHART

STR NO	ROAD NAME	REF LINE	REF STATION	OFFSET	JOINT TIES REQ'D	522.1018 * AE RC 18-INCH	522.1024 * AE RC 24-INCH	522.1036 AE RC 36-INCH	523.0524 * AE RCHE 24X38-INCH	608.0312 SS RC III 12-INCH	608.0318 SS RC III 18-INCH	608.0324 SS RC III 24-INCH	608.0336 SS RC III 36-INCH	610.0124 SS RCHE III 24X38-INCH	611.0610 INLET COVER TYPE BW	611.0624 INLET COVER TYPE H	611.0627 INLET COVER TYPE HM	611.0642 * INLET COVER TYPE MS	611.0652 INLET COVER TYPE T	611.3004 INLETS 4-FT DIAMETER	611.3225 INLETS 2X2.5-FT	611.3230 INLETS 2X3-FT	611.3902 INLETS MEDIAN 2 GRATE	628.7005 INLET PROTECTION TYPE A	628.7010 INLET PROTECTION TYPE B	628.7015 INLET PROTECTION TYPE C	633.5200 * MARKERS CULVERT END	650.4000 CONST STAKING STORMSEWER
33A	STH 35 NB	LINE G	16+45.18	-28.25'							15						1					1				1		1
33B	STH 35 NB	LINE G	16+45.18	-13.53'							69						1					1				1		1
33X	STH 35 NB	LINE G	16+45.18	55.52'	6	1																						1
35A	STH 35 NB	LINE G	21+74.79	-52.80'						122							1					1				1		1
35B	STH 35 NB	LINE G	20+54.62	-55.37'							44						1					1				1		1
35C	STH 35 NB	LINE G	20+54.61	-11.30'							10						1					1				1		1
35D	STH 35 NB	LINE G	20+54.62	-1.53'							68						1			1						1		1
35X	STH 35 NB	LINE G	20+92.14	55.41'	6	1																						1
36A	STH 35 NB	LINE G	23+30.00	-52.54'							44						1					1				1		1
36B	STH 35 NB	LINE G	23+30.00	-8.48'							7						1					1				1		1
36C	STH 35 NB	LINE G	23+30.00	-1.53'							48						1					1				1		1
36X	STH 35 NB	LINE G	23+30.00	46.53'	6	1																						1
37A	STH 35 NB	LINE G	27+90.80	-61.61'							21						1					1				1		1
37B	STH 35 NB	LINE G	27+94.47	-40.93'							40						1			1						1		1
37C	STH 35 NB	LINE G	27+88.00	-1.53'							21					1				1						1		1
37D	STH 35 NB	LINE G	27+88.00	19.53'							10					1						1				1		1
37E	STH 35 NB	LINE G	27+88.01	29.49'							19					1						1				1		1
37F	STH 35 NB	LINE G	27+87.99	48.82'							26					1				1						1		1
37X	STH 35 NB	LINE G	27+91.40	74.54'	6	1																						1
38A	STH 35 NB	LINE G	29+26.27	-32.91'							25					1						1				1		1
38B	STH 35 NB	LINE G	29+42.96	-48.19'						8									1		1				1			1
38C	STH 35 NB	LINE G	29+44.83	-40.33'							88								1	1					1			1
38D	STH 35 NB	LINE G	30+24.57	-1.48'							25								1	1					1			1
38E	STH 35 NB	LINE G	30+24.91	23.57'							52					1				1						1		1
38X	STH 35 NB	LINE G	30+51.78	54.10'	6	1																						1
39A	STH 35 NB	LINE G	29+17.20	-123.95'							21					1					1					1		1
39B	STH 35 NB	LINE G	29+27.53	-123.10'							16						1				1					1		1
39C	STH 35 NB	LINE G	29+35.24	-119.20'							47						1				1					1		1
39D	STH 35 NB	LINE G	29+72.23	-121.98'							25								1		1				1			1
39E	STH 35 NB	LINE G	29+60.57	-144.12'							74					1				1						1		1
39X	STH 35 NB	LINE G	31+52.66	-170.05'	6	1																						1
40A	STH 35 NB	LINE G	31+34.87	-1.47'							43					1						1				1		1
40X	STH 35 NB	LINE G	31+34.87	41.53'	6	1																						1
SUBTOTAL - SHEET 3:						**7**				**130**	**858**					**9**	**13**		**4**	**11**	**2**	**13**			**4**	**22**		**33**

* QUANTITY ELSEWHERE IN PLAN

3

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MISCELLANEOUS QUANTITIES	SHEET:	E

STORM SEWER CHART

STR NO	ROAD NAME	REF LINE	REF STATION	OFFSET	JOINT TIES REQ'D	522.1018 * AE RC 18-INCH	522.1024 * AE RC 24-INCH	522.1036 AE RC 36-INCH	523.0524 * AE RCHE 24X38-INCH	608.0312 SS RC III 12-INCH	608.0318 SS RC III 18-INCH	608.0324 SS RC III 24-INCH	608.0336 SS RC III 36-INCH	610.0124 SS RCHE III 24X38 INCH	611.0610 INLET COVER TYPE BW	611.0624 INLET COVER TYPE H	611.0627 INLET COVER TYPE HM	611.0642 * INLET COVER TYPE MS	611.0652 INLET COVER TYPE T	611.3004 INLETS 4-FT DIAMETER	611.3225 INLETS 2X2.5-FT	611.3230 INLETS 2X3-FT	611.3902 INLETS MEDIAN 2 GRATE	628.7005 INLET PROTECTION TYPE A	628.7010 INLET PROTECTION TYPE B	628.7015 INLET PROTECTION TYPE C	633.5200 * MARKERS CULVERT END	650.4000 CONST STAKING STORMSEWER
41A	STH 35 NB	LINE G	31+50.14	-39.67'							20					1						1				1		1
41B	STH 35 NB	LINE G	31+63.32	-54.19'							48					1						1				1		1
41X	STH 35 NB	LINE G	31+91.63	-89.63'	6	1																						1
42A	STH 35 NB	LINE G	36+73.90	-26.50'							22				1					1						1		1
42B	STH 35 NB	LINE G	36+82.24	-6.86'							5					1				1						1		1
42C	STH 35 NB	LINE G	36+82.21	-1.46'							24					1				1						1		1
42D	STH 35 NB	LINE G	36+70.00	18.97'							26					1				1						1		1
42X	STH 35 NB	LINE G	36+72.08	44.66'	6	1																						1
43A	STH 35 NB	LINE G	39+49.75	-29.18'							25					1						1				1		1
43B	STH 35 NB	LINE G	39+30.28	-49.18'						10									1		1				1			1
43C	STH 35 NB	LINE G	39+26.61	-39.84'							78								1	1					1			1
43D	STH 35 NB	LINE G	38+57.00	-1.50'							25								1	1					1			1
43E	STH 35 NB	LINE G	38+57.00	23.47'							21					1						1				1		1
43F	STH 35 NB	LINE G	39+26.63	46.28'							16						1			1						1		1
43G	STH 35 NB	LINE G	39+09.30	36.28'							45						1			1						1		1
43H	STH 35 NB	LINE G	38+98.16	24.61'							75					1				1						1		1
43X	STH 35 NB	LINE G	38+24.82	75.10'	6	1																						1
44A	CTH E EB	LINE G	41+64.25	-53.80'							23					1						1				1		1
44B	CTH E EB	LINE G	41+62.78	-31.10'							30						1					1				1		1
44C	CTH E EB	LINE G	41+62.88	-1.50'							50						1					1				1		1
44X	CTH E EB	LINE G	41+62.88	48.50'	6	1																						1
45A	CTH E EB	LINE G	44+65.25	-11.31'							10						1					1				1		1
45B	CTH E EB	LINE G	44+65.25	-1.50'							48						1					1				1		1
45X	CTH E EB	LINE G	44+65.25	46.50'	6	1																						1
48A	SE RAMP	LINE D	179+50.22	30.42'							19					1						1				1		1
48B	SE RAMP	LINE D	179+55.57	12.19'							11						1			1						1		1
48C	SE RAMP	LINE D	179+56.71	1.50'							48					1				1						1		1
48X	SE RAMP	LINE D	179+44.89	-45.02'	6	1																						1
SUBTOTAL - SHEET 4:						**6**				**10**	**669**				**1**	**11**	**7**		**3**	**11**	**1**	**10**			**3**	**19**		**28**

* QUANTITY ELSEWHERE IN PLAN

522.1018 * AE RC 18-INCH | 522.1024 * AE RC 24-INCH | 522.1036 AE RC 36-INCH | 523.0524 * AE RCHE 24X38-INCH | 608.0312 SS RC III 12-INCH | 608.0318 SS RC III 18-INCH | 608.0324 SS RC III 24-INCH | 608.0336 SS RC III 36-INCH | 610.0124 SS RCHE III 24X38-INCH | 611.0610 INLET COVER TYPE BW | 611.0624 INLET COVER TYPE H | 611.0627 INLET COVER TYPE HM | 611.0642 * INLET COVER TYPE MS | 611.0652 INLET COVER TYPE T | 611.3004 INLETS 4-FT DIAMETER | 611.3225 INLETS 2X2.5-FT | 611.3230 INLETS 2X3-FT | 611.3902 INLETS MEDIAN 2 GRATE | 628.7005 INLET PROTECTION TYPE A | 628.7010 INLET PROTECTION TYPE B | 628.7015 INLET PROTECTION TYPE C | 633.5200 * MARKERS CULVERT END | 650.4000 CONST STAKING STORMSEWER

STORM SEWER CHART

STR NO	ROAD NAME	REF LINE	REF STATION	OFFSET	JOINT TIES REQ'D	522.1018 * AE RC 18-INCH	522.1024 * AE RC 24-INCH	522.1036 AE RC 36-INCH	523.0524 * AE RCHE 24X38-INCH	608.0312 SS RC III 12-INCH	608.0318 SS RC III 18-INCH	608.0324 SS RC III 24-INCH	608.0336 SS RC III 36-INCH	610.0124 SS RCHE III 24X38-INCH	611.0610 INLET COVER TYPE BW	611.0624 INLET COVER TYPE H	611.0627 INLET COVER TYPE HM	611.0642 * INLET COVER TYPE MS	611.0652 INLET COVER TYPE T	611.3004 INLETS 4-FT DIAMETER	611.3225 INLETS 2X2.5-FT	611.3230 INLETS 2X3-FT	611.3902 INLETS MEDIAN 2 GRATE	628.7005 INLET PROTECTION TYPE A	628.7010 INLET PROTECTION TYPE B	628.7015 INLET PROTECTION TYPE C	633.5200 * MARKERS CULVERT END	650.4000 CONST STAKING STORMSEWER
49A	STH 35/NW Ramp	LINE E	181+80.00	-1.50'							21						1					1				1		1
49B	STH 35/NW Ramp	LINE E	181+80.00	19.50'							30					1						1				1		1
49X	STH 35/NW Ramp	LINE E	181+80.00	49.494	6	1																						1
50A	STH 35/NW Ramp	LINE E	183+00.00	-30.81'							19					1						1				1		1
50B	STH 35/NW Ramp	LINE E	182+94.77	-12.57'							11						1			1						1		1
50C	STH 35/NW Ramp	LINE E	182+94.65	-1.50'							25						1			1						1		1
50D	STH 35/NW Ramp	LINE E	183+01.34	22.20'							23					1				1						1		1
50X	STH 35/NW Ramp	LINE E	182+99.96	45.16'	6	1																						1
53A	STH 35 NB	LINE G	33+87.27	18.50'							28				1						1					1		1
53X	STH 35 NB	LINE G	33+87.27	46.50'	6	1																						1
E1	STH 64 EB	LINE A	168+00.00	-30.01'	N/A																			1				
SUBTOTAL - SHEET 5:						**3**					**157**				**1**	**3**	**3**			**3**	**1**	**3**		**1**		**7**		**10**
TOTAL:						**23**	**7**	**3**	**1**	**233**	**2369**	**789**	**394**	**169**	**2**	**40**	**34**	**24**	**9**	**38**	**5**	**42**	**12**	**13**	**9**	**76**	**13**	**131**

						522.1018 * AE RC 18-INCH	522.1024 * AE RC 24-INCH	522.1036 AE RC 36-INCH	523.0524 * AE RCHE 24X38-INCH	608.0312 SS RC III 12-INCH	608.0318 SS RC III 18-INCH	608.0324 SS RC III 24-INCH	608.0336 SS RC III 36-INCH	610.0124 SS RCHE III 24X38-INCH	611.0610 INLET COVER TYPE BW	611.0624 INLET COVER TYPE H	611.0627 INLET COVER TYPE HM	611.0642 * INLET COVER TYPE MS	611.0652 INLET COVER TYPE T	611.3004 INLETS 4-FT DIAMETER	611.3225 INLETS 2X2.5-FT	611.3230 INLETS 2X3-FT	611.3902 INLETS MEDIAN 2 GRATE	628.7005 INLET PROTECTION TYPE A	628.7010 INLET PROTECTION TYPE B	628.7015 INLET PROTECTION TYPE C	633.5200 * MARKERS CULVERT END	650.4000 CONST STAKING STORMSEWER

* QUANTITY ELSEWHERE IN PLAN

3

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MISCELLANEOUS QUANTITIES	SHEET:	E

601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A
601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A
601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D
601.0551 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
601.0553 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
601.0555 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
601.0557 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
601.0580 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
601.0582 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER
SPV.0090.30 SPECIAL (30. CONCRETE CURB AND GUTTER CURE AND SEAL TREATMENT)

3

601-CONCRETE CURB AND GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	CONCRETE CURB & GUTTER 18-INCH TYPE A 601.0405 LF	CONCRETE CURB & GUTTER 30-INCH TYPE A 601.0409 LF	CONCRETE CURB & GUTTER 30-INCH TYPE D 601.0411 LF	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A 601.0551 LF	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D 601.0553 LF	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A 601.0555 LF	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D 601.0557 LF	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R 601.0580 LF	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T 601.0582 LF	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER 650.5500 LF	SPECIAL (30. CONCRETE CURB AND GUTTER CURE AND SEAL TREATMENT) SPV.0090.30 LF	REMARKS
0010	5+65	-	6+58	STH 35 EB	-	-	-	-	-	-	97	-	-	97	97	RT
0010	6+58	-	19+35	STH 35 EB	-	-	-	-	-	-	1,279	-	-	1,279	1,279	LT
0010	18+94	-	19+53	STH 35 EB	-	-	-	-	-	-	89	-	-	89	89	SCHOOL RD INT
0010	19+87	-	20+68	STH 35 EB	-	-	-	-	-	-	103	-	-	103	103	SCHOOL RD INT
0010	20+40	-	21+82	STH 35 EB	-	-	-	-	-	-	743	-	-	743	743	LT
0010	40+71	-	44+70	STH 35 EB	-	-	-	-	-	-	400	-	-	400	400	LT
0010	5+79	-	6+58	STH 35 EB	-	-	79	-	-	-	-	-	-	79	79	LT
0010	27+44	-	27+78	STH 35 EB	-	-	34	-	-	-	-	-	-	34	34	RT
0010	27+82	-	29+38	STH 35 EB	-	151	-	-	-	-	-	-	-	-	151	LT
0010	27+82	-	29+93	STH 35 EB	-	199	-	-	-	-	-	-	-	-	199	TURN BAY
0010	27+82	-	29+92	STH 35 EB	-	179	-	-	-	-	-	-	-	-	179	TURN BAY
0010	27+78	-	29+81	STH 35 EB	-	157	-	-	-	-	-	-	-	-	157	RT TURN LANE
0010	29+25	-	29+38	STH 35 EB	-	70	-	-	-	-	-	-	-	-	70	MEDIAN END
0010	30+21	-	38+59	STH 35 EB	-	626	-	-	-	-	-	-	-	-	626	RT
0010	31+26	-	37+50	STH 35 EB	-	260	-	-	-	-	-	-	-	-	260	LT
0010	31+24	-	31+44	STH 35 EB	-	45	-	-	-	-	-	-	-	-	45	MEDIAN END
0010	37+40	-	32+51	STH 35 EB	-	32	-	-	-	-	-	-	-	-	32	MEDIAN END
0010	39+37	-	39+59	STH 35 EB	-	66	-	-	-	-	-	-	-	-	66	MEDIAN END
0010	39+40	-	40+71	STH 35 EB	-	132	-	-	-	-	-	-	-	-	132	LT
0010	39+17	-	40+71	STH 35 EB	-	170	-	-	-	-	-	-	-	-	170	RT
0010	28+03	-	29+74	STH 35 WB	-	191	-	-	-	-	-	-	-	-	191	LT
0010	30+35	-	38+80	STH 35 WB	-	633	-	-	-	-	-	-	-	-	633	LT
0010	31+45	-	37+64	STH 35 WB	-	255	-	-	-	-	-	-	-	-	255	RT
0010	39+00	-	41+77	STH 35 WB	-	265	-	-	-	-	-	-	-	-	265	LT
0010	39+70	-	41+77	STH 35 WB	-	209	-	-	-	-	-	-	-	-	209	RT
0010	5+73	-	7+67	STH 35 WB	-	-	181	-	-	-	-	-	-	181	181	LT
0010	5+74	-	7+67	STH 35 WB	-	-	195	-	-	-	-	-	-	195	195	RT
0010	7+67	-	19+30	STH 35 WB	-	-	-	-	-	-	1,162	-	-	1,162	1,162	RT
0010	18+96	-	19+33	STH 35 WB	-	-	-	-	-	-	59	-	-	59	59	SCHOOL RD INT
0010	19+76	-	28+03	STH 35 WB	-	-	-	-	-	-	855	-	-	855	855	LT
0010	20+34	-	27+67	STH 35 WB	-	-	-	-	-	-	733	-	-	733	733	RT
0010	41+77	-	44+86	STH 35 WB	-	-	-	-	-	-	307	-	-	307	307	RT
0010	49+60	-	49+98	STH 35 WB	-	-	-	-	-	-	62	-	-	62	62	THELEN INT
0010	50+31	-	50+90	STH 35 WB	-	-	-	-	-	-	91	-	-	91	91	THELEN INT
0010	27+67	-	29+54	STH 35 WB	-	-	-	-	-	187	-	-	-	-	187	RT
0010	10+91	-	18+09	SCHOOL RD	-	-	-	-	-	-	729	-	-	729	729	RT
0010	17+51	-	18+09	SCHOOL RD	-	-	-	-	-	-	87	-	-	87	87	LT
				SUBTOTAL - SHEET 1: 0010	0	3,640	489	0	0	187	6,796	0	0	7,285	11,112	

601-CONCRETE CURB AND GUTTER

CATEGORY	STATION TO	STATION	LOCATION	CONCRETE CURB & GUTTER 18-INCH TYPE A 601.0405 LF	CONCRETE CURB & GUTTER 30-INCH TYPE A 601.0409 LF	CONCRETE CURB & GUTTER 30-INCH TYPE D 601.0411 LF	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A 601.0551 LF	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D 601.0553 LF	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A 601.0555 LF	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D 601.0557 LF	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R 601.0580 LF	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T 601.0582 LF	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER 650.5500 LF	SPECIAL (30. CONCRETE CURB AND GUTTER CURE AND SEAL TREATMENT) SPV.0090.30 LF	REMARKS
0010	305+91 -	307+79	STH 35 NB	-	-	190	-	-	-	-	-	-	190	190	LT
0010	306+29 -	308+46	STH 35 NB	-	-	204	-	-	-	-	-	-	204	204	TURN BAY
0010	306+29 -	308+45	STH 35 NB	-	-	184	-	-	-	-	-	-	184	184	TURN BAY
0010	307+69 -	307+81	STH 35 NB	-	-	45	-	-	-	-	-	-	45	45	MEDIAN END
0010	308+70 -	309+01	STH 35 NB	-	-	42	-	-	-	-	-	-	42	42	MEDIAN END
0010	309+81 -	309+91	STH 35 NB	-	-	31	-	-	-	-	-	-	31	31	MEDIAN END
0010	309+84 -	312+44	STH 35 NB	-	-	261	-	-	-	-	-	-	261	261	LT
0010	309+16 -	312+44	STH 35 NB	-	-	284	-	-	-	44	-	-	328	328	RT
0010	312+44 -	312+68	STH 35 NB	-	-	42	-	-	-	-	-	-	42	42	INTERSECTION
0010	304+71 -	308+33	STH 35 NB	-	-	-	-	-	-	321	-	-	321	321	RT
0010	313+04 -	313+21	STH 35 NB	-	-	-	-	-	-	21	-	-	21	21	RT
0010	301+45 -	305+91	STH 35 NB	-	-	-	-	446	-	-	-	-	446	446	LT
0010	305+91 -	307+85	STH 35 SB	-	-	195	-	-	-	-	-	-	195	195	RT
0010	306+86 -	312+64	STH 35 SB	-	-	586	-	-	-	-	-	-	586	586	LT
0010	309+89 -	312+48	STH 35 SB	-	-	260	-	-	-	-	-	-	260	260	RT
0010	312+64 -	313+26	STH 35 SB	-	-	-	-	-	-	85	-	-	85	85	INTERSECTION
0010	313+47 -	313+83	STH 35 SB	-	-	-	-	-	-	82	-	-	82	82	INTERSECTION
0010	301+44 -	305+91	STH 35 SB	-	-	-	-	447	-	-	-	-	447	447	RT
0010	180+81 -	183+13	NW RAMP	-	177	-	-	-	-	-	-	-	-	177	LT
0010	180+83 -	181+50	NW RAMP	-	66	-	-	-	-	-	-	-	-	66	RT BAY
0010	181+21 -	183+06	NW RAMP	-	201	-	-	-	-	-	-	-	-	201	RT
0010	180+79 -	183+01	NW RAMP	-	-	-	195	-	-	-	-	-	-	195	TURN BAY
0010	181+50 -	183+00	NW RAMP	-	-	-	149	-	-	-	-	-	-	149	TURN BAY
0010	183+13 -	184+76	NW RAMP	-	-	-	-	-	169	-	-	-	-	169	LT
0010	180+55 -	181+15	SW RAMP	-	73	-	-	-	-	-	-	-	-	73	LT
0010	180+94 -	181+09	SW RAMP	-	15	-	-	-	-	-	-	-	-	15	RT
0010	182+57 -	183+21	NE RAMP	-	64	-	-	-	-	-	-	-	-	64	LT
0010	182+44 -	183+21	NE RAMP	-	78	-	-	-	-	-	-	-	-	78	RT
0010	179+45 -	181+30	SE RAMP	-	201	-	-	-	-	-	-	-	-	201	LT
0010	177+75 -	181+65	SE RAMP	-	345	-	-	-	-	-	-	-	-	345	RT
0010	179+52 -	181+68	SE RAMP	-	-	-	214	-	-	-	-	-	-	214	TURN BAY
0010	179+51 -	181+72	SE RAMP	-	-	-	194	-	-	-	-	-	-	194	TURN BAY
0010			STH 64 WB	-	-	-	-	300	-	-	-	-	-	-	
0010			STH 35/MAIN ST RAB	-	-	-	-	-	-	-	-	401	401	401	
0010			EAST RAB	279	-	-	-	-	-	-	-	-	-	279	
0010			WEST RAB	279	-	-	-	-	-	-	-	-	-	279	
0010			STH 35/MAIN ST RAB	280	-	-	-	-	-	-	-	-	-	280	
0010			EAST RAB	-	-	-	-	-	-	-	401	-	-	401	
0010			WEST RAB	-	-	-	-	-	-	-	401	-	-	401	
			SUBTOTAL - SHEET 2: 0010	838	1,220	2,324	752	1,193	169	553	802	401	4,171	7,952	
			TOTAL 0010	838	4,860	2,813	752	1,193	356	7,349	802	401	11,456	19,064	

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WALL MODULAR BLOCK GRAVITY

CATEGORY	STATION TO STATION	LOCATION	532.0200.S SF	REMARKS
0010	52+15 - 52+86	CTH E	175	PLAHN - PE
		TOTAL 0010	175	

CONCRETE CURB PEDESTRIAN

CATEGORY	STATION TO STATION	LOCATION	601.0600 LF	REMARKS
0010	181+41 - 181+55	NW RAMP RT TURN LANE	14	WEST CROSSING
0010	181+40 - 181+54	NW RAMP RT TURN LANE	104	ISLAND
0010	181+34 - 181+48	NW RAMP	14	EAST CROSSING
0010	182+71 - 182+85	NE RAMP	14	WEST CROSSING
0010	182+71 - 182+85	NE RAMP	14	EAST CROSSING
0010	41+26 - 41+40	CTH E WB	14	
0010	312+68 - 312+70	MAIN ST NB	6	
0010	312+99 - 313+07	MAIN ST SB	9	
0010	305+92 - 306+06	MAIN ST NB	14	EAST CROSSING
0010	305+92 - 306+06	MAIN ST NB	74	MEDIAN
0010	306+98 - 307+12	MAIN ST SB	14	WEST CROSSING
0010	304+22 - 304+36	STH 35 NB RT TURN	16	EAST CROSSING
0010	304+22 - 304+36	STH 35 NB RT TURN	83	MEDIAN
0010	307+50 - 307+64	STH 35 NB RT TURN	95	MEDIAN
0010	307+54 - 307+68	STH 35 SB	14	WEST CROSSING
0010	307+17 - 307+31	STH 35 SB	7	BIKE RAMP ENTANCE
0010	305+02 - 305+16	STH 35 NB	8	BIKE RAMP EXIT
0010	5+97 - 6+11	STH 35 NB	16	SOUTH CROSSING
0010	5+97 - 6+11	STH 35 NB	87	MEDIAN
0010	5+89 - 6+03	STH 35 SB	16	NORTH CROSSING
0010	6+35 - 6+45	STH 35 NB	8	BIKE RAMP ENTRANCE
0010	7+18 - 7+28	STH 35 SB	8	BIKE RAMP EXIT
0010	20+31 - 20+45	STH 35 SB	14	NORTH CROSSING
0010	20+38 - 20+48	STH 35 NB	38	MEDIAN
0010	39+84 - 39+98	CTH E WB	14	NORTH CROSSING
0010	39+84 - 39+98	CTH E WB	137	MEDIAN
0010	39+58 - 39+72	CTH E EB	14	SOUTH CROSSING
0010	40+30 - 40+40	CTH E EB	9	BIKE RAMP ENTRANCE
0010	41+28 - 41+38	CTH E WB	8	BIKE RAMP EXIT
		TOTAL 0010	883	

602.0415 CONCRETE SIDEWALK 6-INCH
SPV.0165.10 SPECIAL (10. CONCRETE SIDEWALK CURE AND SEAL TREATMENT)

602-CONCRETE SIDEWALK

CATEGORY	STATION TO STATION	LOCATION	602.0415 SF	SPV.0165.10 SF	REMARKS
0010	301+46 - 303+00	STH 35 NB - LINE J	3290	3290	MEDIAN
0010	306+25 - 307+82	STH 35 NB - LINE J	4814	4814	MEDIAN
0010	306+23 - 308+48	STH 35 NB - LINE J	4910	4910	RT TURN ISLAND
0010	309+76 - 312+44	STH 35 NB - LINE J	4929	4929	MEDIAN
0010	5+74 - 7+00	STH 35 NB - LINE G	3563	3563	MEDIAN
0010	16+40 - 19+36	STH 35 NB - LINE G	4992	4992	MEDIAN
0010	20+36 - 24+09	STH 35 NB - LINE G	4196	4196	MEDIAN
0010	27+71 - 29+38	STH 35 NB - LINE G	9056	9056	MEDIAN
0010	27+83 - 29+90	STH 35 NB - LINE G	4681	4681	RT TURN ISLAND
0010	31+25 - 33+06	STH 35 NB - LINE G	2896	2896	MEDIAN
0010	36+77 - 37+53	STH 35 NB - LINE G	1591	1591	MEDIAN
0010	39+35 - 40+75	CTH E EB - LINE G	6270	6270	MEDIAN
0010	43+00 - 44+70	CTH E EB - LINE G	3459	3459	MEDIAN
0010	41+26 - 41+40	CTH E WB - LINE H	65	65	BIKE RAMP EXIT
0010	179+50 - 181+73	SE RAMP	6248	6248	RT TURN ISLAND
0010	180+79 - 183+01	NW RAMP	6248	6248	RT TURN ISLAND
0010	181+41 - 181+55	NW RAMP RT TURN LANE	65	65	WEST CROSSING
0010	181+40 - 181+54	NW RAMP RT TURN LANE	65	65	EAST CROSSING
0010	181+29 - 181+43	NW RAMP	65	65	WEST CROSSING
0010	181+34 - 181+48	NW RAMP	65	65	EAST CROSSING
0010	182+71 - 182+85	NE RAMP	65	65	WEST CROSSING
0010	182+71 - 182+85	NE RAMP	65	65	EAST CROSSING
0010	6+00 - 6+10	STH 35 NB	65	65	SOUTH CROSSING
0010	6+00 - 6+10	STH 35 NB	65	65	NORTH CROSSING
0010	5+91 - 6+01	STH 35 SB	65	65	SOUTH CROSSING
0010	5+91 - 6+01	STH 35 SB	65	65	NORTH CROSSING
0010	6+35 - 6+45	STH 35 NB	65	65	BIKE RAMP ENTRANCE
0010	7+18 - 7+28	STH 35 SB	65	65	BIKE RAMP EXIT
0010	20+31 - 20+41	STH 35 SB	65	65	SOUTH CROSSING
0010	39+60 - 39+70	CTH E EB	65	65	SOUTH CROSSING
0010	39+60 - 39+70	CTH E EB	65	65	NORTH CROSSING
0010	39+86 - 39+96	CTH E WB	65	65	SOUTH CROSSING
0010	39+86 - 39+96	CTH E WB	65	65	NORTH CROSSING
0010	40+30 - 40+40	CTH E EB	65	65	BIKE RAMP ENTRANCE
0010	305+04 - 305+14	STH 35 NB	65	65	BIKE RAMP EXIT
0010	307+19 307+29	STH 35 SB	65	65	BIKE RAMP ENTRANCE
0010	307+57 307+67	STH 35 SB	65	65	WEST CROSSING
0010	307+57 307+67	STH 35 SB	65	65	EAST CROSSING
0010	307+52 307+62	STH 35 NB	65	65	WEST CROSSING
0010	307+52 307+62	STH 35 NB	65	65	EAST CROSSING
0010	307+25 307+35	STH 35 NB RT TURN LANE	65	65	WEST CROSSING
0010	307+25 307+35	STH 35 NB RT TURN LANE	65	65	EAST CROSSING
0010	309+95 310+05	MAIN ST NB	65	65	EAST CROSSING
0010	309+95 310+05	MAIN ST NB	65	65	WEST CROSSING
0010	310+00 310+10	MAIN ST SB	65	65	EAST CROSSING
0010	310+00 310+10	MAIN ST SB	65	65	EAST CROSSING
0010	312+63 612+73	MAIN ST NB	65	65	BIKE RAMP ENTRANCE
0010	312+94 313+04	MAIN ST SB	65	65	BIKE RAMP EXIT
		TOTAL 0010	73288	73288	

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PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	MISCELLANEOUS QUANTITIES	SHEET:	E

CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA

CATEGORY	STATION TO STATION	LOCATION	602.0515 SF	REMARKS
0010	18141 - 18155	NW RAMP RT TURN LANE	20	WEST CROSSING
0010	18140 - 18154	NW RAMP RT TURN LANE	20	EAST CROSSING
0010	18129 - 18143	NW RAMP	20	WEST CROSSING
0010	18134 - 18148	NW RAMP	20	EAST CROSSING
0010	18271 - 18285	NE RAMP	20	WEST CROSSING
0010	18271 - 18285	NE RAMP	20	EAST CROSSING
0010	3986 - 3998	CTH E WB	20	NORTH CROSSING
0010	3986 - 3996	CTH E WB	20	SOUTH CROSSING
0010	3961 - 3971	CTH E EB	20	NORTH CROSSING
0010	3961 - 3971	CTH E EB	20	SOUTH CROSSING
0010	4108 - 4113	CTH E WB	8	BIKE RAMP EXIT
0010	4011 - 4016	CTH E EB	8	BIKE RAMP ENTRANCE
0010	2038 - 2048	STH 35 NB	20	MEDIAN
0010	2040 - 2050	STH 35 NB	20	NORTH CROSSING
0010	30515 - 30520	STH 35 NB	8	BIKE RAMP EXIT
0010	30729 - 30734	STH 35 SB	8	BIKE RAMP ENTRANCE
0010	30752 - 30762	STH 35 NB	20	WEST CROSSING
0010	30752 - 30762	STH 35 NB	20	EAST CROSSING
0010	30724 - 30734	STH 35 NB RT TURN	20	WEST CROSSING
0010	30724 - 30734	STH 35 NB RT TURN	20	EAST CROSSING
0010	30757 - 30767	STH 35 SB	20	WEST CROSSING
0010	30757 - 30767	STH 35 SB	20	EAST CROSSING
0010	30995 - 31005	STH 35 NB	20	WEST CROSSING
0010	30995 - 31005	STH 35 NB	20	EAST CROSSING
0010	31000 - 31010	STH 35 SB	20	WEST CROSSING
0010	31000 - 31010	STH 35 SB	20	EAST CROSSING
0010	31294 - 31298	STH 35 SB	8	CURB RAMP
0010	31261 - 61265	STH 35 NB	8	CURB RAMP
0010	600 - 610	STH 35 NB	20	NORTH CROSSING
0010	600 - 610	STH 35 NB	20	SOUTH CROSSING
0010	591 - 601	STH 35 SB	20	NORTH CROSSING
0010	591 - 601	STH 35 SB	20	SOUTH CROSSING
0010	625 - 630	STH 35 NB	8	BIKE RAMP ENTRANCE
0010	711 - 716	STH 35 SB	8	BIKE RAMP EXIT
		TOTAL 0010	584	

CONCRETE BARRIER TYPE S42

CATEGORY	STATION TO STATION	LOCATION	603.1142 LF
0010	36+64 - 37+63	STH 35 SB	100
		TOTAL 0010	100

603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED
603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED

CATEGORY	STATION TO STATION	LOCATION	603.8000 LF	603.8125 LF	REMARKS
0010	260+00 - 305+00	STH 35/64	4500	4500	ANCHOR BARRIER IN ASPHALT PAVEMENT ON WB SHOULDER
0010	313+00 - 317+00	CROSSOVER	500	500	
		TOTAL 0010	5000	5000	

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CATEGORY	STATION	LOCATION	RIPRAP MEDIUM 606.0200 CY	GEOTEXTILE FABRIC TYPE HR 645.0120 SY	REMARKS
0010	183+60	STH 64 EB - LINE A	9	28	STRUCTURE 1X
0010	202+00	STH 35/64 EB - LINE A	58	177	STRUCTURE 2X
0010	211+71	STH 35/64 EB - LINE A	153	490	STRUCTURE 3X
0010	214+44	STH 35/64 EB - LINE A	230	736	STRUCTURE 4X
0010	220+50	STH 35/64 EB - LINE A	8	28	STRUCTURE 5X
0010	226+50	STH 35/64 EB - LINE A	8	27	STRUCTURE 6X
0010	234+00	STH 35/64 EB - LINE A	8	29	STRUCTURE 7X
0010	232+81	STH 35/64 EB - LINE A	17	47	STRUCTURE 8X
0010	250+22	STH 35/64 EB - LINE A	8	24	STRUCTURE 9X
0010	258+21	STH 35/64 EB - LINE A	7	21	STRUCTURE 10X
0010	263+13	STH 35/64 EB - LINE A	6	18	STRUCTURE 11X
0010	274+65	STH 35/64 EB - LINE A	3	13	STRUCTURE 12X
0010	289+94	STH 35/64 EB - LINE A	3	11	STRUCTURE 14X
0010	224+41	FRONTAGE ROAD A	4	13	STRUCTURE 16X
0010	241+90	FRONTAGE ROAD A	9	31	STRUCTURE 18X
0010	243+27	FRONTAGE ROAD A	9	26	STRUCTURE 19X
0010	260+69	FRONTAGE ROAD B	7	22	STRUCTURE 20X
0010	265+09	FRONTAGE ROAD B	8	25	STRUCTURE 21X
0010	265+10	FRONTAGE ROAD C	7	25	STRUCTURE 23X
0010	302+35	STH 35 NB - LINE J	5	16	STRUCTURE 25X
0010	306+21	STH 35 NB - LINE J	15	51	STRUCTURE 26X
0010	307+92	STH 35 NB - LINE J	15	51	STRUCTURE 27X
0010	313+11	STH 35 NB - LINE J	5	20	STRUCTURE 28X
0010	6+34	STH 35 NB - LINE G	16	51	STRUCTURE 30X
0010	12+50	STH 35 NB - LINE G	4	15	STRUCTURE 32X
0010	16+45	STH 35 NB - LINE G	5	18	STRUCTURE 33X
0010	20+75	STH 35 NB - LINE G	12	36	STRUCTURE 34X
0010	20+92	STH 35 NB - LINE G	16	53	STRUCTURE 35X
0010	23+30	STH 35 NB - LINE G	10	36	STRUCTURE 36X
0010	27+91	STH 35 NB - LINE G	13	45	STRUCTURE 37X
0010	30+52	STH 35 NB - LINE G	29	98	STRUCTURE 38X
0010	30+52	STH 35 NB - LINE G	33	99	STRUCTURE 38X
0010	31+60	STH 35 NB - LINE G	57	183	STRUCTURE 39/49X
0010	31+35	STH 35 NB - LINE G	23	77	STRUCTURE 40X
0010	31+92	STH 35 NB - LINE G	22	75	STRUCTURE 41X
0010	36+72	STH 35 NB - LINE G	18	62	STRUCTURE 42X
0010	38+25	CTH E EB - LINE G	26	87	STRUCTURE 43X
0010	41+63	CTH E EB - LINE G	9	30	STRUCTURE 44X
0010	44+65	CTH E EB - LINE G	12	42	STRUCTURE 45X
0010	45+87	CTH E EB - LINE G	12	40	STRUCTURE 46X
0010	51+03	CTH E EB - LINE G	7	24	STRUCTURE 47X
0010	179+45	SE RAMP - LINE D	24	82	STRUCTURE 48X
0010	183+00	NW RAMP - LINE E	18	60	STRUCTURE 50X
0010	235+45	STH 35/64 EB - LINE A	70	224	RIGHT DITCH BETWEEN FR RD C
0010	245+70	FRONTAGE ROAD A	64	205	LEFT DITCH
		UNDISTRIBUTED	220	714	
		TOTAL 0010	1322	4285	

STEEL THRIE BEAM BULLNOSE TERMINAL

CATEGORY	STATION	LOCATION	614.0220 EACH	REMARKS
0010	181+77	STH 64	2	MEDIAN BRIDGE PIER
		TOTAL 0010	2	

STEEL THRIE BEAM

CATEGORY	STATION	LOCATION	614.0230 LF	REMARKS
0010	181+77	STH 64	175	MEDIAN BRIDGE PIER
		TOTAL 0010	175	

GUARDRAIL MOW STRIP CONCRETE

CATEGORY	STATION TO	STATION	LOCATION	614.0395 SY	REMARKS
0010	33+46 -	34+24	STH 35 NB	40	6" CONCRETE REQUIRED
			TOTAL 0010	40	

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CRASH CUSHIONS TEMPORARY

CATEGORY	LOCATION	614.0905 EACH	BACK WIDTH (FT)	OBJECT MARKING PATTERN	CRASH TEST LEVEL	TRAFFIC DIRECTION	TRAFFIC LOCATION	CRASH CUSHION SHIELDS
0010	STAGE 1 BARRIER ENDS	2	2	OM-3R	TL-3	BIDIRECTIONAL	R	BLUNT END TEMPORARY CONCRETE BARRIER, OUTSIDE SHOULDER
0010	STAGE 3/WINTER X-OVER	1	2	OM-3C	TL-3	BIDIRECTIONAL	L and R	BLUNT END TEMPORARY CONCRETE BARRIER, BETWEEN TRAFFIC LANES
	TOTAL 0010	3						

MGS THRIE BEAM TRANSITION

CATEGORY	STATION TO STATION	LOCATION	614.2500 LF	REMARKS
0010	33+87 - 34+26	STH 35 NB	39	B-55-226 SW QUAD
0010	37+63 - 38+00	STH 35 SB	39	B-55-226 NW QUAD
		TOTAL 0010	78	

MGS GUARDRAIL TERMINAL EAT

CATEGORY	STATION TO STATION	LOCATION	614.2610 EACH	REMARKS
0010	33+34 - 33+87	STH 35 NB	1	B-55-226 SW QUAD
0010	38+00 - 38+48	STH 35 SB	1	B-55-226 NW QUAD
		TOTAL 0010	2	

FENCE WOVEN WIRE (4.5')

CATEGORY	STATION TO STATION	LOCATION	616.0100 LF	REMARKS
0010	200+35 - 302+83	STH 64 EB	10,248	RIGHT
0010	200+35 - 301+00	STH 64 WB	10,065	LEFT
		TOTAL 0010	20,313	

MAINTENANCE AND REPAIR OF HAUL ROADS (8110-02-72)

CATEGORY	LOCATION	618.0100 EACH	REMARKS
0010	PROJECT	1	
	TOTAL 0010	1	

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MOBILIZATION

CATEGORY	LOCATION	619.1000 EACH
0010	PROJECT	1
	TOTAL 0010	1

CONCRETE MEDIAN SLOPED NOSE

CATEGORY	STATION TO STATION	LOCATION	620.0300 SF	REMARKS
0010	301+39 - 301+46	STH 35 NB - LINE J	69	CENTER ISLAND - TYPE 1
0010	307+64 - 307+83	STH 35 NB - LINE J	39	CENTER ISLAND - TWO TYPE 2
0010	306+21 - 308+08	STH 35 NB RT TURN - LINE CC	124	RT TURN ISLAND - TWO TYPE 1
0010	309+78 - 309+96	MAIN ST NB - LINE J	39	CENTER ISLAND - TWO TYPE 2
0010	312+44 - 312+51	MAIN ST NB - LINE J	69	CENTER ISLAND - TYPE 1
0010	5+73 - 5+98	STH 35 NB - LINE G	39	CENTER ISLAND - TWO TYPE 2
0010	19+36 - 19+43	STH 35 NB - LINE G	81	CENTER ISLAND - TYPE 1
0010	20+29 - 20+36	STH 35 NB - LINE G	74	CENTER ISLAND - TYPE 1
0010	29+21 - 29+39	STH 35 NB - LINE G	39	CENTER ISLAND - TWO TYPE 2
0010	27+76 - 29+95	STH 35 NB - LINE G	124	RT TURN ISLAND - TWO TYPE 1
0010	31+24 - 31+48	STH 35 NB - LINE G	39	CENTER ISLAND - TWO TYPE 2
0010	33+06 - 33+13	STH 35 NB - LINE G	49	CENTER ISLAND - TYPE 1
0010	36+71 - 36+78	STH 35 NB - LINE G	50	CENTER ISLAND - TYPE 1
0010	37+35 - 37+54	STH 35 NB - LINE G	40	CENTER ISLAND - TWO TYPE 2
0010	39+34 - 39+65	CTH E EB - LINE G	40	CENTER ISLAND - TWO TYPE 2
0010	44+70 - 44+77	CTH E EB - LINE G	69	CENTER ISLAND - TYPE 1
0010	179+44 - 181+77	SE RAMP - LINE D	153	SE RAMP ISLAND - TWO TYPE 1
0010	180+75 - 183+07	NW RAMP - LINE E	153	NW RAMP ISLAND - TWO TYPE 1
	TOTAL 0010		1,290	

DUST CONTROL SURFACE TREATMENT

CATEGORY	STATION TO STATION	LOCATION	623.0200 SY
0010	297+00 - 314+00	STH 35/MAIN ST	7,556
0010	5+00 - 55+00	STH 35/CTH E	22,222
0010	183+50 - 185+50	STH 64 EB	800
0010	183+50 - 185+50	STH 64 WB	800
0010	200+00 - 304+50	STH 35/64 EB	41,800
0010	200+00 - 304+50	STH 35/64 WB	41,800
0010	218+00 - 249+00	FRONTAGE ROAD A	8,267
0010	242+00 - 266+00	FRONTAGE ROAD B	6,400
0010	233+00 - 240+00	FRONTAGE ROAD C WEST	1,867
0010	257+00 - 273+00	FRONTAGE ROAD C EAST	4,267
		TOTAL 0010	135,779

WATER

CATEGORY	LOCATION	624.0100 MGAL
0010	EARTHWORK	2,600
0010	BASE COURSE	2,000
0010	SEEDING	163
	TOTAL 0010	4,763

625.0500 SALVAGED TOPSOIL
627.0200 MULCHING
629.0210 FERTILIZER TYPE B
630.0120 SEEDING MIXTURE NO. 20
630.0140 SEEDING MIXTURE NO. 40
630.0200 SEEDING TEMPORARY
630.0400 SEEDING NURSE CROP
SPV.0085.10 SPECIAL (10. NATIVE BUTTERFLY SEED MIX)

625-FINISHING ITEMS

CATEGORY	STATION TO	STATION	LOCATION	SALVAGED TOPSOIL 625.0500 SY	MULCHING 627.0200 SY	FERTILIZER TYPE B 629.0210 CWT	SEEDING MIXTURE #20 630.0120 LB	SEEDING MIXTURE #40 630.0140 LB	SEEDING TEMPORARY 630.0200 LB	SEEDING NURSE CROP 630.0400 LB	SPECIAL (10. NATIVE SPV.0085.10 LB	REMARKS
0010	297+60 -	307+20	STH 35 NB	1,870	1,870	1.2	49	-	-	-	-	
0010	309+84 -	317+70	STH 35 NB	2,160	2,160	1.4	-	38	-	-	-	
0010	297+60 -	306+86	STH 35 SB	1,970	1,970	1.2	52	-	-	-	-	
0010	306+86 -	317+84	STH 35 SB	4,580	4,580	2.9	-	80	-	-	-	
0010	10+69 -	18+00	SCHOOL RD	1,330	1,330	0.8	-	-	-	9	5	LT
0010	10+90 -	18+00	SCHOOL RD	1,780	1,780	1.1	-	-	-	12	6	RT
0010	5+65 -	18+96	STH 35 EB	8,540	8,540	5.4	224	-	-	-	-	
0010	20+69 -	30+20	STH 35 EB	9,260	9,260	5.8	-	-	-	65	32	
0010	29+50 -	30+20	STH 35 EB	600	600	0.4	16	-	-	-	-	
0010	30+20 -	34+17	STH 35 EB	3,400	3,400	2.1	64	-	-	7	3	
0010	36+43 -	38+57	STH 35 EB	3,230	3,230	2.0	72	-	-	3	2	
0010	38+80 -	45+00	STH 35 EB	5,930	5,930	3.7	118	-	-	10	5	
0010	45+00 -	51+42	STH 35 EB	4,640	4,640	2.9	122	-	-	-	-	
0010	51+42 -	54+94	STH 35 EB	1,020	1,020	0.6	-	18	-	-	-	
0010	5+66 -	19+27	STH 35 WB	5,630	5,630	3.5	148	-	-	-	-	
0010	19+78 -	27+30	STH 35 WB	5,400	5,400	3.4	-	53	-	17	8	
0010	27+80 -	29+90	STH 35 WB	2,110	2,110	1.3	-	21	-	6	3	
0010	30+38 -	34+43	STH 35 WB	4,050	4,050	2.6	-	32	-	15	8	
0010	36+11 -	49+92	STH 35 WB	13,550	13,550	8.5	-	74	-	65	33	
0010	50+34 -	51+62	STH 35 WB	660	660	0.4	17	-	-	-		
0010	51+62	55+10	STH 35 WB	990	990	0.6	-	17	-	-	-	
0010	218+50 -	224+45	FRONTAGE RD A	1,290	1,290	0.8	34	-	-	-	-	LT
0010	218+50 -	229+50	FRONTAGE RD A	3,090	2,370	1.9	81	-	-	-	-	RT
0010	224+61 -	233+39	FRONTAGE RD A	4,110	4,110	2.6	108	-	-	-	-	LT
0010	233+64 -	248+61	FRONTAGE RD A	12,070	12,070	7.6	316	-	-	-	-	LT
0010	243+84 -	248+61	FRONTAGE RD A	1,010	3,640	0.6	27	-	-	-	-	RT
SUBTOTAL - SHEET 1: 0010				104,270	106,180	65	1,448	333	0	209	105	

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625-FINISHING ITEMS

CATEGORY	STATION TO	STATION	LOCATION	SALVAGED TOPSOIL 625.0500 SY	MULCHING 627.0200 SY	FERTILIZER TYPE B 629.0210 CWT	SEEDING MIXTURE #20 630.0120 LB	SEEDING MIXTURE #40 630.0140 LB	SEEDING TEMPORARY 630.0200 LB	SEEDING NURSE CROP 630.0400 LB	SPECIAL (10. NATIVE SPV.0085.10 LB	REMARKS
0010	243+00 -	257+50	FRONTAGE RD B	8,680	8,680	5.5	228	-	-	-	-	LT
0010	257+50 -	265+33	FRONTAGE RD B	4,630	3,730	2.9	121	-	-	-	-	LT AND AROUND THE CULDESAC
0010	233+34 -	235+41	FRONTAGE RD C	320	320	0.2	-	6	-	-	-	LT
0010	233+97 -	235+42	FRONTAGE RD C	170	170	0.1	-	3	-	-	-	RT
0010	235+42 -	240+19	FRONTAGE RD C	920	690	0.6	24	-	-	-	-	RT
0010	257+00	266+55	FRONTAGE RD C	2,100	2,100	1.3	55	-	-	-	-	RT
0010	266+76 -	272+68	FRONTAGE RD C	900	900	0.6	24	-	-	-	-	RT
0010	270+92 -	272+68	FRONTAGE RD C	390	390	0.2	10	-	-	-	-	LT
0010	180+00 -	181+86	SHARED USE PATH	740	570	0.5	-	-	-	-	-	LT
0010	183+65 -	186+68	SHARED USE PATH	830	830	0.5	-	-	-	-	-	LT
0010	183+65 -	186+68	SHARED USE PATH	660	660	0.4	-	-	-	-	-	RT
0010	182+77 -	200+00	NE RAMP	5,810	5,810	3.7	152	-	-	-	-	RT
0010	183+70 -	190+51	NE RAMP	3,060	3,060	1.9	80	-	-	-	-	LT
0010	182+00 -	200+00	NW RAMP	7,600	7,600	4.8	199	-	-	-	-	LT
0010	182+00 -	194+68	NW RAMP	9,660	9,660	6.1	253	-	-	-	-	RT
0010	80+83 -	83+95	THELEN FARM RD	470	470	0.3	-	8	-	-	-	LT
0010	80+83 -	83+95	THELEN FARM RD	430	430	0.3	-	7	-	-	-	RT
0010	183+50	185+50	STH 64 WB	540	540	0.3	14	-	-	-	-	LT
0010	178+70 -	185+50	STH 64 EB	2,450	2,450	1.5	64	-	-	-	-	MEDIAN
0010	183+50 -	185+50	STH 64 EB	700	700	0.4	18	-	-	-	-	RT
0010	200+00 -	215+00	STH 64 WB	9,140	9,140	5.8	240	-	-	-	-	LT
0010	200+00 -	215+00	STH 64 EB	5,510	5,510	3.5	144	-	-	-	-	MEDIAN
0010	200+00 -	215+00	STH 64 EB	6,550	6,550	4.1	172	-	-	-	-	RT
0010	215+00 -	230+00	STH 64 WB	12,200	11,010	7.7	320	-	-	-	-	LT
0010	215+00 -	230+00	STH 64 EB	5,500	5,500	3.5	144	-	-	-	-	MEDIAN
0010	215+00 -	230+00	STH 64 EB	4,720	4,290	3.0	124	-	-	-	-	RT
		SUBTOTAL - SHEET 2: 0010		94,680	91,760	60	2,386	24	0	0	0	

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625-FINISHING ITEMS

CATEGORY	STATION TO STATION	LOCATION	SALVAGED TOPSOIL 625.0500 SY	MULCHING 627.0200 SY	FERTILIZER TYPE B 629.0210 CWT	SEEDING MIXTURE #20 630.0120 LB	SEEDING MIXTURE #40 630.0140 LB	SEEDING TEMPORARY 630.0200 LB	SEEDING NURSE CROP 630.0400 LB	SPECIAL (10. NATIVE SPV.0085.10 LB	REMARKS
0010	230+00 - 245+00	STH 64 WB	7,670	7,080	4.8	201	-	-	-	-	LT
0010	230+00 - 245+00	STH 64 EB	5,440	5,440	3.4	143	-	-	-	-	MEDIAN
0010	230+00 245+00	STH 64 EB	9,140	8,240	5.8	240	-	-	-	-	RT
0010	245+00 - 260+00	STH 64 WB	5,790	5,790	3.6	152	-	-	-	-	LT
0010	245+00 - 260+00	STH 64 EB	5,410	5,410	3.4	142	-	-	-	-	MEDIAN
0010	245+00 - 260+00	STH 64 EB	8,270	8,270	5.2	217	-	-	-	-	RT
0010	260+00 - 275+00	STH 64 WB	7,090	5,370	4.5	186	-	-	-	-	LT
0010	260+00 275+00	STH 64 EB	5,590	5,590	3.5	146	-	-	-	-	MEDIAN
0010	260+00 - 275+00	STH 64 EB	9,450	9,450	6.0	248	-	-	-	-	RT
0010	275+00 - 290+00	STH 64 WB	6,610	4,060	4.2	173	-	-	-	-	LT
0010	275+00 290+00	STH 64 EB	4,710	4,710	3.0	123	-	-	-	-	MEDIAN
0010	275+00 - 290+00	STH 64 EB	7,300	4,590	4.6	191	-	-	-	-	RT
0010	290+00 - 304+50	STH 64 WB	5,400	1,950	3.4	141	-	-	-	-	LT
0010	290+00 - 304+50	STH 64 EB	4,260	4,260	2.7	112	-	-	-	-	MEDIAN
0010	290+00 - 304+50	STH 64 EB	7,230	2,910	4.6	190	-	-	-	-	RT
0010		POND E	3,370	3,370	2.1	88	-	-	-	-	
0010		POND GLEN	21,480	21,480	13.5	563	-	-	-	-	
0010		POND GORE	19,800	19,800	12.5	519	-	-	-	-	
0010		Undistributed	-	16,286	-	-	-	1,307	-	-	
		SUBTOTAL - SHEET 3: 0010	144,010	144,056	91	3,775	0	1,307	0	0	
		TOTAL 0010	342,960	341,996	216	7,609	357	1,307	209	105	
0040	224+61 - 233+39	FR A - Kilbane Berm	3,020	3,020	1.9	79	-	-	-	-	LT
0040	233+64 - 248+61	FR A - Kilbane Berm	7,800	7,800	4.9	205	-	-	-	-	LT
		TOTAL 0040	10,820	10,820	7	284	0	0	0	0	
		GRAND TOTAL	353,780	352,816	223	7,893	357	1,307	209	105	

EROSION BALES

CATEGORY	LOCATION	628.1104 EACH
0010	UNDISTRIBUTED	500
	TOTAL 0010	500

628.1504 SILT FENCE
628.1520 SILT FENCE MAINTENANCE

628-SILT FENCE SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	SILT FENCE 628.1504 LF	SILT FENCE MAINTENANCE 628.1520 LF	REMARKS
0010	302+68	-	307+93	STH 35 SB	331	331	
0010	308+54	-	313+12	STH 35 SB	504	504	
0010	299+24	-	301+30	STH 35 NB	602	602	
0010	312+49	-	318+28	STH 35 NB	632	632	
0010	11+41	-	14+66	SCHOOL RD LT	437	437	
0010	11+47	-	17+97	SCHOOL RD RT	675	675	
0010	42+15	-	54+05	STH 35/CTH E EB	812	812	
0010	42+32	-	54+57	STH 35/CTH E WB	1,283	1,283	
0010	200+00	-	207+11	STH 64 EB	685	685	
0010	215+96	-	234+35	STH 64 EB	1,765	1,765	
0010	270+44	-	288+94	STH 64 EB	1,607	1,607	
0010	295+74	-	301+76	STH 64 EB	603	603	
0010	201+91	-	204+95	STH 64 WB	321	321	
0010	215+83	-	223+88	STH 64 WB	596	596	
0010	274+69	-	276+04	STH 64 WB	130	130	
0010	279+20	-	283+43	STH 64 WB	360	360	
0010	218+02	-	221+04	FRONTAGE RD A RT	303	303	
0010	218+05	-	227+77	FRONTAGE RD A LT	952	952	
0010	233+24	-	233+68	FRONTAGE RD A LT	89	89	
0010	236+71	-	241+01	FRONTAGE RD A LT	380	380	
0010	262+48	-	266+01	FRONTAGE RD B LT	555	555	AROUND CUL DE SAC
0010	236+04	-	245+37	FRONTAGE RD C RT	647	647	
0010	262+54	-	272+81	FRONTAGE RD C RT	827	827	
0010	269+90	-	272+37	FRONTAGE RD C LT	311	311	
				UNDISTRIBUTED	1,541	1,541	
				TOTAL 0010	16,950	16,950	

628.1905 MOBILIZATIONS EROSION CONTROL
628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL

628-MOBILIZATIONS EROSION

CATEGORY	LOCATION	EROSION CONTROL 628.1905 LF	EMERGENCY 628.1910 EACH
0010		10	10
	TOTAL 0010	10	10

CLEANING SEDIMENT BASINS

CATEGORY	LOCATION	628.1920 CY
0010	UNDISTRIBUTED	1000
	TOTAL 0010	1000

EROSION MAT CLASS II TYPE B

CATEGORY	STATION TO STATION	LOCATION	628.2023 SY	REMARKS
0010				
0010	220+78 - 221+79	FRONTAGE RD A RT	147	
0010	228+46 - 232+21	STH 64 WB	2534	
0010	233+88 - 248+55	FRONTAGE RD A LT	4475	
0010	233+77 - 236+87	STH 64 EB	762	
0010	237+81 - 240+18	FRONTAGE RD C RT	101	
0010	263+03 - 266+01	FRONTAGE RD B	977	
0010	268+69 - 270+31	FRONTAGE RD C LT	365	
0010	268+22 - 270+37	STH 64 WB	831	
0010	270+80 - 275+17	STH 64 WB	1665	
0010	276+77 - 277+45	STH 64 WB	173	
0010	277+75 - 282+71	STH 64 EB	1954	
0010	280+15 - 299+90	STH 64 WB	5916	
0010	288+26 - 299+45	STH 64 EB	4835	
0010	302+80 - 303+97	STH 64 WB	585	
0010	224+14 - 224+26	FRONTAGE ROAD A - LI	9	LT - CULVERT
0010	226+97 - 227+09	STH 35/64 WB - LINE	9	LT - CULVERT
0010	226+50	STH 35/64 EB - LINE	9	RT - CULVERT
0010	234+04 - 234+16	FRONTAGE ROAD A - LI	9	LT - CULVERT
0010	234+38	STH 35/64 EB - LINE	9	RT - CULVERT
0010	234+00	STH 35/64 EB - LINE	9	RT - CULVERT
0010	242+36	FRONTAGE ROAD A - LI	9	LT - CULVERT
0010	243+26	FRONTAGE ROAD A - LI	9	LT - CULVERT
0010	250+21	FRONTAGE ROAD B - LI	9	LT - CULVERT
0010	258+21	FRONTAGE ROAD B - LI	9	LT - CULVERT
0010	263+06	STH 35/64 WB - LINE	9	LT - CULVERT
0010	274+34	STH 35/64 WB - LINE	9	LT - CULVERT
0010	288+00	STH 35/64 EB - LINE	9	RT - CULVERT
0010	295+00	STH 35/64 EB - LINE	9	RT - CULVERT
0010	302+35	STH 35 NB - LINE J	4	RT - CULVERT
0010	7+50	STH 35 NB - LINE G	9	RT - CULVERT
0010	312+42	MAIN ST SB - LINE K	4	LT - CULVERT
0010	313+11	MAIN ST NB - LINE J	4	RT - CULVERT
0010	12+50	STH 35 NB - LINE G	4	RT - CULVERT
0010	16+38	STH 35 SB - LINE H	4	LT - CULVERT
0010	20+95	STH 35 NB - LINE G	4	RT - CULVERT
0010	20+81	STH 35 NB - LINE G	4	RT - CULVERT
0010	23+30	STH 35 NB - LINE G	4	RT - CULVERT
0010	27+41	STH 35 NB - LINE G	4	RT - CULVERT
0010	41+63	CTH E EB - LINE G	4	RT - CULVERT
0010	44+65	CTH E EB - LINE G	4	RT - CULVERT
0010	46+74	CTH E EB - LINE G	9	RT - CULVERT
0010	52+13	CTH E EB - LINE G	4	RT - CULVERT
0010	179+40	SE RAMP - LINE D	4	LT - CULVERT
0010	38+27	STH 35 NB - LINE G	4	RT - CULVERT
0010	36+74	STH 35 NB - LINE G	4	RT - CULVERT
0010		UNDISTRIBUTED	5107	
		TOTAL 0010	30640	

SOIL STABILIZER TYPE B

CATEGORY	LOCATION	628.6510 ACRE
0010	STH 35 INTERCHANGE AREA	17
0010	SE RAMP	5
0010	SW RAMP	5
0010	NE RAMP	3
0010	NW RAMP	4
	TOTAL 0010	33

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TEMPORARY DITCH CHECKS

CATEGORY	STATION	LOCATION	628.7504 LF
0010	315+22	STH 35 NB	12
0010	9+55	STH 35/CTH E EB	12
0010	15+97	STH 35/CTH E EB	12
0010	16+65	STH 35/CTH E EB	12
0010	17+58	STH 35/CTH E EB	12
0010	21+45	STH 35/CTH E EB	12
0010	22+10	STH 35/CTH E EB	12
0010	9+25	STH 35/CTH E WB	12
0010	24+98	STH 35/CTH E WB	12
0010	13+93	SCHOOL RD LT	12
0010	15+21	SCHOOL RD LT	12
0010	16+56	SCHOOL RD LT	12
0010	81+07	13TH ST RT	12
0010	82+57	13TH ST RT	12
0010	193+75	NE RAMP	12
0010	195+75	NE RAMP	12
0010	197+75	NE RAMP	12
0010	199+75	NE RAMP	12
0010	202+23	NE RAMP	12
0010	204+25	NE RAMP	12
0010	205+27	NE RAMP	12
0010	193+44	NW RAMP	12
0010	195+91	NW RAMP	12
0010	198+27	NW RAMP	12
0010	200+76	NW RAMP	12
(MEDIAN STATIONING FROM STH 64 EB)			
0010	200+00	MEDIAN	12
0010	201+99	MEDIAN	12
0010	203+96	MEDIAN	12
0010	205+93	MEDIAN	12
0010	207+89	MEDIAN	12
0010	209+86	MEDIAN	12
0010	211+83	MEDIAN	12
0010	213+80	MEDIAN	12
0010	216+42	MEDIAN	12
0010	218+38	MEDIAN	12
0010	219+81	MEDIAN	12
0010	220+93	MEDIAN	12
0010	221+89	MEDIAN	12
0010	222+73	MEDIAN	12
0010	223+54	MEDIAN	12
SUBTOTAL - SHEET 1: 0010			480

TEMPORARY DITCH CHECKS

CATEGORY	STATION	LOCATION	628.7504 LF
0010	224+35	MEDIAN	12
0010	225+15	MEDIAN	12
0010	225+96	MEDIAN	12
0010	226+77	MEDIAN	12
0010	227+58	MEDIAN	12
0010	228+38	MEDIAN	12
0010	229+18	MEDIAN	12
0010	230+01	MEDIAN	12
0010	230+87	MEDIAN	12
0010	231+78	MEDIAN	12
0010	232+77	MEDIAN	12
0010	233+85	MEDIAN	12
0010	235+08	MEDIAN	12
0010	236+51	MEDIAN	12
0010	238+43	MEDIAN	12
0010	264+93	MEDIAN	12
0010	266+61	MEDIAN	12
0010	267+68	MEDIAN	12
0010	268+69	MEDIAN	12
0010	269+79	MEDIAN	12
0010	275+13	MEDIAN	12
0010	286+22	MEDIAN	12
0010	288+01	MEDIAN	12
0010	289+44	MEDIAN	12
0010	290+68	MEDIAN	12
0010	291+79	MEDIAN	12
0010	292+79	MEDIAN	12
0010	293+72	MEDIAN	12
0010	294+59	MEDIAN	12
0010	295+41	MEDIAN	12
0010	296+27	MEDIAN	12
0010	297+37	MEDIAN	12
0010	299+37	MEDIAN	12
0010	301+37	MEDIAN	12
0010	303+34	MEDIAN	12
0010	305+35	MEDIAN	12
0010	307+16	MEDIAN	12
0010	206+35	STH 64 EB	12
0010	207+46	STH 64 EB	12
0010	208+69	STH 64 EB	12
SUBTOTAL - SHEET 2: 0010			480

TEMPORARY DITCH CHECKS

CATEGORY	STATION	LOCATION	628.7504 LF
0010	210+03	STH 64 EB	12
0010	212+23	STH 64 EB	12
0010	214+31	STH 64 EB	12
0010	216+39	STH 64 EB	12
0010	218+48	STH 64 EB	12
0010	220+55	STH 64 EB	12
0010	221+39	STH 64 EB	12
0010	222+14	STH 64 EB	12
0010	222+86	STH 64 EB	12
0010	223+60	STH 64 EB	12
0010	224+33	STH 64 EB	12
0010	225+05	STH 64 EB	12
0010	225+79	STH 64 EB	12
0010	226+53	STH 64 EB	12
0010	227+25	STH 64 EB	12
0010	227+99	STH 64 EB	12
0010	228+72	STH 64 EB	12
0010	229+50	STH 64 EB	12
0010	230+62	STH 64 EB	12
0010	232+66	STH 64 EB	12
0010	233+88	STH 64 EB	12
0010	238+50	STH 64 EB	12
0010	261+40	STH 64 EB	12
0010	263+39	STH 64 EB	12
0010	264+47	STH 64 EB	12
0010	265+70	STH 64 EB	12
0010	280+99	STH 64 EB	12
0010	283+00	STH 64 EB	12
0010	284+50	STH 64 EB	12
0010	286+33	STH 64 EB	12
0010	288+02	STH 64 EB	12
0010	289+41	STH 64 EB	12
0010	290+62	STH 64 EB	12
0010	291+70	STH 64 EB	12
0010	292+69	STH 64 EB	12
0010	293+61	STH 64 EB	12
0010	294+47	STH 64 EB	12
0010	295+28	STH 64 EB	12
0010	296+14	STH 64 EB	12
0010	297+23	STH 64 EB	12
SUBTOTAL - SHEET 3: 0010			480

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TEMPORARY DITCH CHECKS

628.7504

CATEGORY	STATION	LOCATION	LF
0010	299+06	STH 64 EB	12
0010	202+77	STH 64 WB	12
0010	204+69	STH 64 WB	12
0010	206+62	STH 64 WB	12
0010	208+07	STH 64 WB	12
0010	209+98	STH 64 WB	12
0010	212+28	STH 64 WB	12
0010	214+21	STH 64 WB	12
0010	216+14	STH 64 WB	12
0010	218+08	STH 64 WB	12
0010	220+00	STH 64 WB	12
0010	221+11	STH 64 WB	12
0010	222+17	STH 64 WB	12
0010	223+24	STH 64 WB	12
0010	224+31	STH 64 WB	12
0010	225+38	STH 64 WB	12
0010	226+44	STH 64 WB	12
0010	227+49	STH 64 WB	12
0010	228+30	STH 64 WB	12
0010	232+24	STH 64 WB	12
0010	233+25	STH 64 WB	12
0010	234+21	STH 64 WB	12
0010	235+10	STH 64 WB	12
0010	235+99	STH 64 WB	12
0010	237+71	STH 64 WB	12
0010	254+99	STH 64 WB	12
0010	270+37	STH 64 WB	12
0010	271+59	STH 64 WB	12
0010	272+97	STH 64 WB	12
0010	273+87	STH 64 WB	12
0010	274+56	STH 64 WB	12
0010	276+03	STH 64 WB	12
0010	278+08	STH 64 WB	12
0010	288+66	STH 64 WB	12
0010	290+00	STH 64 WB	12
0010	291+17	STH 64 WB	12
0010	292+24	STH 64 WB	12
0010	293+20	STH 64 WB	12
0010	294+09	STH 64 WB	12
0010	294+94	STH 64 WB	12
		SUBTOTAL - SHEET 4: 0010	480

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TEMPORARY DITCH CHECKS

628.7504

CATEGORY	STATION	LOCATION	LF
0010	295+74	STH 64 WB	12
0010	296+63	STH 64 WB	12
0010	297+82	STH 64 WB	12
0010	299+82	STH 64 WB	12
0010	305+28	STH 64 WB	12
0010	307+07	STH 64 WB	12
0010	217+33	FRONTAGE RD A RT	12
0010	221+12	FRONTAGE RD A RT	12
0010	222+36	FRONTAGE RD A RT	12
0010	223+03	FRONTAGE RD A RT	12
0010	223+70	FRONTAGE RD A RT	12
0010	224+38	FRONTAGE RD A RT	12
0010	225+07	FRONTAGE RD A LT	12
0010	225+09	FRONTAGE RD A RT	12
0010	225+82	FRONTAGE RD A RT	12
0010	226+40	FRONTAGE RD A LT	12
0010	226+53	FRONTAGE RD A RT	12
0010	227+10	FRONTAGE RD A LT	12
0010	227+81	FRONTAGE RD A LT	12
0010	228+52	FRONTAGE RD A LT	12
0010	229+23	FRONTAGE RD A LT	12
0010	230+00	FRONTAGE RD A LT	12
0010	242+25	FRONTAGE RD A LT	12
0010	244+03	FRONTAGE RD A LT	12
0010	247+51	FRONTAGE RD A LT	12
0010	248+43	FRONTAGE RD A LT	12
0010	245+19	FRONTAGE RD B LT	12
0010	247+20	FRONTAGE RD B LT	12
0010	249+20	FRONTAGE RD B LT	12
0010	251+20	FRONTAGE RD B LT	12
0010	253+20	FRONTAGE RD B LT	12
0010	255+20	FRONTAGE RD B LT	12
0010	257+19	FRONTAGE RD B LT	12
0010	259+19	FRONTAGE RD B LT	12
0010	261+19	FRONTAGE RD B LT	12
0010	263+19	FRONTAGE RD B LT	12
0010	232+60	FRONTAGE RD C RT	12
0010	233+28	FRONTAGE RD C RT	12
0010	234+71	FRONTAGE RD C RT	12
		Undistributed	358
		SUBTOTAL - SHEET 5: 0010	826
		TOTAL 0010	2746.00

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CULVERT PIPE CHECKS

CATEGORY	STATION	LOCATION	628.7555 EACH	REMARKS
0010	224+77	FRONTAGE ROAD A - LINE T	3	LT
0010	226+00	FRONTAGE ROAD A - LINE T	3	LT
0010	233+09	FRONTAGE ROAD A - LINE T	3	LT
0010	234+98	FRONTAGE ROAD A - LINE T	3	LT
0010	242+35	FRONTAGE ROAD A - LINE T	3	RT
0010	243+41	FRONTAGE ROAD A - LINE T	3	RT
0010	263+25	STH 35/64 EB - LINE A	3	MEDIAN
0010	258+25	STH 35/64 EB - LINE A	3	RT
0010	301+47	STH 35/64 WB - LINE B	3	LT
0010	211+79	STH 35/64 WB - LINE B	3	LT
0010	7+43	STH 35 SB - LINE H	3	LT
0010	7+79	STH 35 SB - LINE H	3	LT
0010	12+39	STH 35 SB - LINE H	3	LT
0010	16+45	STH 35 NB - LINE G	3	RT
0010	18+88	STH 35 NB - LINE G	3	RT
0010	46+15	CTH E WB - LINE H	3	LT
0010	46+74	CTH E EB - LINE G	3	RT
0010	51+26	CTH E EB - LINE G	3	LT
0010	52+94	CTH E EB - LINE G	3	RT
		TOTAL 0010	57	

TRACKING PADS

CATEGORY	LOCATION	628.7560 EACH
0010	STH 64 AND EXISTING CTH E	4
	TOTAL 0010	4

ROCK BAGS

CATEGORY	LOCATION	628.7570 EACH
0010	CULVERT ENDWALLS (15)	90
0010	UNDISTRIBUTED	18
	TOTAL 0010	108

SEEDING BORROW PIT

CATEGORY	LOCATION	630.0300 LB	REMARKS
0010	UNDISTRIBUTED	981	15 ACRES
	TOTAL 0010	981	

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DELINEATORS TEMPORARY

CATEGORY	LOCATION	633.1100 EACH
0010	STAGE 1	25
0010	STAGE 2	137
0010	STAGE 3	122
0010	WINTER	16
	TOTAL 0010	300

SIGN FLAGS PERMANENT TYPE II

CATEGORY	LOCATION	637.0620 EACH	REMARKS
0010	150TH S.B. ON RAMP	14	1 YIELD, 6 FLAGGING
0010	CTH E DETOUR	2	NO OUTLET SIGN
	TOTAL 0010	16	*QTY ELSEWHERE IN MQ SHEETS

REMOVING SIGNS TYPE II

CATEGORY	LOCATION	638.2602 EACH	REMARKS
0010	STH 64	2	SPEED LIMIT AHEAD 55
	TOTAL 0010	2	* QTY ELSEWHERE IN MQ SHEETS

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PERMANENT SIGNING

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	634.0612 WOOD POSTS 4X6-IN 12 FT EACH	634.0614 WOOD POSTS 4X6-IN 14 FT EACH	634.0616 WOOD POSTS 4X6-IN 16 FT EACH	634.0618 WOOD POSTS 4X6-IN 18 FT EACH	634.0620 WOOD POSTS 4X6-IN 20 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
1-01	J1-1	(3)	36X57	14.25	--	--	--	--	1	--	--	--	JUNCTION OR END ASSEMBLY
	M2-1	(3)	30X21	--	--	--	--	--	--	--	--	--	JCT
	M1-5A	(3)	36X36	--	--	--	--	--	--	--	--	--	COUNTY MARKER (2-3 DIGITS)
1-02	W6-1	2S	36X36	--	9	--	--	--	1	--	--	--	DIVIDED HIGHWAY AHEAD SYMBOL
1-03	D1-62	Custom	66xx24	11	--	--	--	2	--	--	--	--	ROUNDABOUT DESTINATION - DIRECTION SIGN
1-04	W2-6	(3)	36X36	--	9	--	--	--	1	--	--	--	CIRCULAR INTERSECTION SIGN
1-05	W13-1	(3)	24X24	--	4	--	--	--	--	--	--	1-04	ADVISORY SPEED PLATE (YELLOW BACK)
1-06	D1-62	Custom	126x60	52.5	--	--	--	--	--	3		--	ROUNDABOUT DESTINATION - DIRECTION SIGN
1-07	W6-3	2S	36X36	--	9	--	--	--	1	--	--	--	TWO WAY TRAFFIC SYMBOL
2-01	W3-2	2S	36X36	--	9	--	--	--	1	--	--	--	YIELD AHEAD
2-02	D1-3	Custom	72X36	18	--	--	--	2	--	--	--	--	THREE DESTINATION (ARROWS)
2-03	R4-7	(3)	36X48	12	--	--	--	--	--	1	--	--	KEEP RIGHT
2-04	W5-54	2S	18X18	--	2.25	--	--	--	--	--	--	2-03	CLEARANCE MARKER WITH YELLOW TYPE F SHEETING
2-05	R5-1	(3)	36X36	9	--	--	--	--	1	--	--	--	DO NOT ENTER
2-06	R2-1	2M	30X36	7.5	--	--	--	--	--	--	--	2-05	SPEED LIMIT [ ] MPH
2-07	J33-1	2S	24X69	11.5	--	--	--	--	--	1	--	--	TRAILBLAZER DIRECTIONAL WITH CARDINAL
	M4-1A	2S	24X12	--	--	--	--	--	--	--	--	--	ALT
	M3-4	2S	24X12	--	--	--	--	--	--	--	--	--	WEST
	M1-1	2S	24X24		--	--	--	--	--	--	--	--	INTERSTATE SHEILD ROUTE MARKER (2 DIGIT)
	M6-2	2S	21X21	--	--	--	--	--	--	--	--	--	ARROW (TILT, RIGHT, OR LEFT)
2-08	R5-1A	2S	36X24	6	--	--	--	--	1	--	--	--	WRONG WAY
2-09	J4-3	Custom	72X54	27	--	--	--	--	2	--	--	--	REASSURANCE ASSEMBLY
	M4-1A	2S	24X12	--	--	--	--	--	--	--	--	--	ALT
	M4-1A	2S	24X12	--	--	--	--	--	--	--	--	--	ALT
	M3-3	2S	24X12	--	--	--	--	--	--	--	--	--	SOUTH
	M3-4	2S	24X12	--	--	--	--	--	--	--	--	--	WEST
	M3-2	2S	24X12	--	--	--	--	--	--	--	--	--	EAST
	M1-6	2S	24X24	--	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
	M1-6	2S	24X24	--	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
	M1-1	2S	24X24	--	--	--	--	--	--	--	--	--	INTERSTATE SHEILD ROUTE MARKER (2 DIGIT)
2-10	W6-2	2S	36X36	--	9	--	--	--	--	--	--	2-08	DIVIDED HIGHWAY ENDS SYMBOL
2-11	R3-8D	2S	36X30	7.5	--	--	--	1	--	--	--	--	AHEAD ONLY / RIGHT ONLY
2-12	R4-4	2S	36X30	7.5	--	--	--	1	--	--	--	--	BEGIN RIGHT TURN LANE - YIELD TO BIKES
3-01	W12-1D	2M	24X24	--	4	--	1	--	--	--	--	--	DOUBLE DOWN ARROW
3-02	R1-2	2S	36X31	3.88	--	2	--	1	--	--	--	--	YIELD
3-03	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	3-02	TO TRAFFIC FROM LEFT
3-04	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
3-05	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	3-04	ONE WAY RIGHT ARROW
3-06	R1-2	2S	36X31	3.88	--	2	--	1	--	--	--	--	YIELD
3-07	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	3-06	TO TRAFFIC FROM LEFT
3-08	D1-3	Custom	84X30	17.5	--	--	--	--	2	--	--	--	THREE DESTINATION (ARROWS)
3-09	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
3-10	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	3-09	ONE WAY RIGHT ARROW
3-11	R1-2	2S	36X31	3.88	--	2	--	1	--	--	--	--	YIELD
3-12	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	3-11	TO TRAFFIC FROM LEFT
3-13	D1-2	Custom	66X30	13.75	--	--	--	--	2	--	--	--	TWO DESTINATION (ARROWS)
3-14	W6-2	2S	36X36	--	9	--	--	--	1	--	--	--	DIVIDED HIGHWAY ENDS SYMBOL
3-15	R5-1A	2S	36X24	6	--	--	--	1	--	--	--	1M-03	WRONG WAY
3-16	D1-3	Custom	72X36	18	--	--	--	2	--	--	--	--	THREE DESTINATION (ARROWS)
3-17	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
SUBTOTALS				279.78	64.25	12	1	12	17	5	0	--	

3

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	634.0612 WOOD POSTS 4X6-IN 12 FT EACH	634.0614 WOOD POSTS 4X6-IN 14 FT EACH	634.0616 WOOD POSTS 4X6-IN 16 FT EACH	634.0618 WOOD POSTS 4X6-IN 18 FT EACH	634.0620 WOOD POSTS 4X6-IN 20 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
3-18	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	3-17	ONE WAY RIGHT ARROW
3-19	R1-2	2S	36X31	3.88	--	2	--	1	--	--	--	--	YIELD
3-20	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	3-19	TO TRAFFIC FROM LEFT
3-21	R6-1-R	2S	36X12	3	--	--	1	--	--	--	--	--	ONE WAY RIGHT ARROW
3-22	R6-4-B	2S	60X24	10	--	--	--	--	--	--	--	3-21	ROUNDABOUT CHEVRON BANK
3-23	R6-1-R	2S	36X12	3	--	--	1	--	--	--	--	--	ONE WAY RIGHT ARROW
3-24	R6-4-B	2S	60X24	10	--	--	--	--	--	--	--	3-23	ROUNDABOUT CHEVRON BANK
3-25	R6-1-R	2S	36X12	3	--	--	1	--	--	--	--	--	ONE WAY RIGHT ARROW
3-26	R6-4-B	2S	60X24	10	--	--	--	--	--	--	--	3-25	ROUNDABOUT CHEVRON BANK
3-27	D1-1	Custom	42X30	8.75	--	--	--	1	--	--	--	--	ONE DESTINATION (ARROW)
3-28	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
3-29	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	3-28	ONE WAY RIGHT ARROW
3-30	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-31	W16-7L	2S	24X12	--	2	--	--	--	--	--	--	3-30	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-32	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-33	W16-7R	2S	24X12	--	2	--	--	--	--	--	--	3-32	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-34	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-35	W16-7L	2S	24X12	--	2	--	--	--	--	--	--	3-34	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-36	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-37	W16-7R	2S	24X12	--	2	--	--	--	--	--	--	3-36	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-38	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-39	W16-7L	2S	24X12	--	2	--	--	--	--	--	--	3-38	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-40	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-41	W16-7R	2S	24X12	--	2	--	--	--	--	--	--	3-40	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-42	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-43	W16-7L	2S	24X12	--	2	--	--	--	--	--	--	3-42	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-44	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-45	W16-7R	2S	24X12	--	2	--	--	--	--	--	--	3-44	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-46	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-47	W16-7L	2S	24X12	--	2	--	--	--	--	--	--	3-46	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-48	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-49	W16-7R	2S	24X12	--	2	--	--	--	--	--	--	3-48	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-50	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-51	W16-7L	2S	24X12	--	2	--	--	--	--	--	--	3-50	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-52	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-53	W16-7R	2S	24X12	--	2	--	--	--	--	--	--	3-52	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-54	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-55	W16-7L	2S	24X12	--	2	--	--	--	--	--	--	3-54	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
3-56	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
3-57	W16-7R	2S	24X12	--	2	--	--	--	--	--	--	3-56	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
4-01	R2-1	2S	24X30	5	--	--	--	--	1	--	--	--	SPEED LIMIT [__] MPH
4-02	R5-1	(3)	36X36	9	--	--	--	--	--	--	--	4-01	DO NOT ENTER
4-03	W6-3	2S	36X36	--	9	--	--	--	1	--	--	--	TWO WAY TRAFFIC SYMBOL
4-04	W6-1	2S	36X36	--	9	--	--	--	1	--	--	--	DIVIDED HIGHWAY AHEAD SYMBOL
4-05	W2-6	2S	30X30	--	6.25	--	--	--	1	--	--	--	CIRCULAR INTERSECTION SIGN
4-06	W13-1	2S	18X18	--	2.25	--	--	--	--	--	--	4-05	ADVISORY SPEED PLATE (YELLOW BACK)
4-07	D1-62	Custom	120X84	70	--	--	--	--	--	--	3	--	ROUNDABOUT DESTINATION - DIRECTION SIGN
4-08	R1-1	2S	30X30	5.18	--	--	--	1	--	--	--	--	STOP SIGN
4-09	W3-2	2S	36X36		9	--	--	--	1	--	--	--	YIELD AHEAD
SUBTOTALS				157.19	151.00	4	3	3	20	0	3	--	

3

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	634.0612 WOOD POSTS 4X6-IN 12 FT EACH	634.0614 WOOD POSTS 4X6-IN 14 FT EACH	634.0616 WOOD POSTS 4X6-IN 16 FT EACH	634.0618 WOOD POSTS 4X6-IN 18 FT EACH	634.0620 WOOD POSTS 4X6-IN 20 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
4-10	R4-7	2S	24X30	5	--	--	--	1	--	--	--	--	KEEP RIGHT
4-11	R1-1	2S	30X30	5.18	--	--	--	1	--	--	--	--	STOP SIGN
5-01	J4-4	Custom	96X48	32	--	--	--	--	--	2	--	--	REASSURANCE ASSEMBLY
	M4-1A	2S	24X12	2	--	--	--	--	--	--	--	--	ALT
	M3-1	2S	24X12	2	--	--	--	--	--	--	--	--	NORTH
	M3-4	2S	24X12	2	--	--	--	--	--	--	--	--	WEST
	M3-2	2S	24X12	2	--	--	--	--	--	--	--	--	EAST
	M4-5	2S	24X12	2	--	--	--	--	--	--	--	--	TO
	M1-6	2S	24X24	3.13	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
	M1-1	2S	24X24	3.13	--	--	--	--	--	--	--	--	INTERSTATE SHEILD ROUTE MARKER (2 DIGIT)
	M1-6	2S	24X24	3.13	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
	M1-5A	2S	24X24	3.13	--	--	--	--	--	--	--	--	COUNTY MARKER (2-3 DIGITS)
5-02	R2-1	2S	24X30	5	--	--	--	1	--	--	--	--	SPEED LIMIT [__] MPH
5-03	W3-2	2S	36X36	--	9	--	--	--	1	--	--	--	YIELD AHEAD
5-04	J32-2	2S	48X69	23	--	--	--	--	--	1	--	--	TRAILBLAZER ADVANCE TURN WITH CARDINAL
	M4-1A	2S	24X12	--	--	--	--	--	--	--	--	--	ALT
	M4-1A	2S	24X12	--	--	--	--	--	--	--	--	--	ALT
	M3-2	2S	24X12	--	--	--	--	--	--	--	--	--	EAST
	M3-4	2S	24X12	--	--	--	--	--	--	--	--	--	WEST
	M1-1	2S	24X24	--	--	--	--	--	--	--	--	--	INTERSTATE SHEILD ROUTE MARKER (2 DIGIT)
	M1-6	2S	24X24	--	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
	M5-1L	2S	21X21	--	--	--	--	--	--	--	--	--	ADVANCE ARROW (LEFT TURN)
	M5-1L	2S	21X21	--	--	--	--	--	--	--	--	--	ADVANCE ARROW (LEFT TURN)
6-01	D4-2R	2S	30X36	7.5	--	--	--	1	--	--	--	--	PARK AND RIDE SYMBOLS RIGHT ARROW
6-02	D1-1	Custom	72X15	7.5	--	--	2	--	--	--	--	--	ONE DESTINATION (ARROW)
6-03	R4-4	2S	36X30	7.5	--	--	--	1	--	--	--	--	BEGIN RIGHT TURN LANE - YIELD TO BIKES
6-04	J1-1	2S	24X39	6.5	--	--	--	1	--	--	--	--	JUNCTION OR END ASSEMBLY
	M2-1	2S	21X15	--	--	--	--	--	--	--	--	--	JCT
	M1-6	2S	24X24	--	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
6-05	W2-6	(3)	36X36	--	9	--	--	--	1	--	--	--	CIRCULAR INTERSECTION SIGN
6-06	W13-1	(3)	24X24	--	4	--	--	--	--	--	--	6-05	ADVISORY SPEED PLATE (YELLOW BACK)
6-07	D1-62	Custom	132X48	44	--	--	--	--	3	--	--	--	ROUNDABOUT DESTINATION - DIRECTION SIGN
7-01	W2-6	(3)	36X36	--	9	--	--	--	1	--	--	--	CIRCULAR INTERSECTION SIGN
7-02	W13-1	(3)	24X24	--	4	--	--	--	--	--	--	7-01	ADVISORY SPEED PLATE (YELLOW BACK)
7-03	D1-62	Custom	114X84	66.5	--	--	--	--	--	--	2	--	ROUNDABOUT DESTINATION - DIRECTION SIGN
7-04	W3-2	2S	36X36	--	9	--	--	--	1	--	--	--	YIELD AHEAD
7-05	R1-1	2S	30X30	5.18	--	--	--	1	--	--	--	--	STOP SIGN
8-01	D1-2	Custom	72X30	15	--	--	--	2	--	--	--	--	TWO DESTINATION (ARROWS)
8-02	R4-4	2S	36X30	7.5	--	--	--	--	1	--	--	--	BEGIN RIGHT TURN LANE - YIELD TO BIKES
8-03	J33-1	2S	24X69	11.5	--	--	--	--	--	1	--	--	TRAILBLAZER DIRECTIONAL WITH CARDINAL
	M4-1A	2S	24X12	--	--	--	--	--	--	--	--	--	ALT
	M3-4	2S	24X12	--	--	--	--	--	--	--	--	--	WEST
	M1-1	2S	24X24	--	--	--	--	--	--	--	--	--	INTERSTATE SHEILD ROUTE MARKER (2 DIGIT)
	M6-2	2S	21X21	--	--	--	--	--	--	--	--	--	ARROW (TILT, RIGHT, OR LEFT)
8-04	D4-5-L	2S	30X36	7.5	--	--	--	--	--	--	--	LIGHT POLE	PARK AND RIDE (CAR SYMBOL) LEFT ARROW
8-05	J4-3	Custom	72X48	24	--	--	--	--	--	2	--	--	REASSURANCE ASSEMBLY
SUBTOTALS				302.88	44.00	0	2	9	8	6	2	--	

ALL ITEMS ON THIS SHEET ARE IN CATEGORY 0010

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	634.0612 WOOD POSTS 4X6-IN 12 FT EACH	634.0614 WOOD POSTS 4X6-IN 14 FT EACH	634.0616 WOOD POSTS 4X6-IN 16 FT EACH	634.0618 WOOD POSTS 4X6-IN 18 FT EACH	634.0620 WOOD POSTS 4X6-IN 20 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
8-06	D1-1	Custom	72X15	7.5	--	--		2	--	--	--	--	ONE DESTINATION (ARROW)
8-07	R4-4	2S	36X30	7.5	--	--	--	--	1	--	--	--	BEGIN RIGHT TURN LANE - YIELD TO BIKES
8-08	W12-1D	2S	24X24	--	4	--	1	--	--	--	--	--	DOUBLE DOWN ARROW
8-09	R5-57	(5)	36X36	9	--	--	--	--	1	--	--	--	PEDESTRIANS, ETC., PROHIBITED
8-10	R3-8D	2S	36X30	7.5	--	--	--	1	--	--	--	--	AHEAD ONLY / RIGHT ONLY
9-01	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
9-02	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	9-01	ONE WAY RIGHT ARROW
9-03	R1-2	2S	36X31	3.88	--	2	--	--	--	--	--	LIGHT POLE	YIELD
9-04	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	9-03	TO TRAFFIC FROM LEFT
9-05	D1-1	Custom	42X30	8.75	--	--	--	1	--	--	--	--	ONE DESTINATION (ARROW)
9-06	D1-3	Custom	84X30	17.5	--	--	--	--	2	--	--	--	THREE DESTINATION (ARROWS)
9-07	R5-1	2S	30X30	6.25	--	--	--	--	--	--	--	9-27	DO NOT ENTER
9-08	R5-1	2S	30X30	6.25	--	--	--	--	--	--	--	9-25	DO NOT ENTER
9-09	D1-3	Custom	72X36	18	--	--	--	--	2	--	--	--	THREE DESTINATION (ARROWS)
9-10	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
9-11	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	9-10	ONE WAY RIGHT ARROW
9-12	R1-2	2S	36X31	3.88	--	2	--	1	--	--	--	--	YIELD
9-13	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	9-12	TO TRAFFIC FROM LEFT
9-14	D1-1	Custom	42X30	8.75	--	--	--	1	--	--	--	--	ONE DESTINATION (ARROW)
9-15	R6-1-R	2S	36X12	3	--	--	1	--	--	--	--	--	ONE WAY RIGHT ARROW
9-16	R6-4-B	2S	60X24	10	--	--	--	--	--	--	--	9-15	ROUNDABOUT CHEVRON BANK
9-17	R6-1-R	2S	36X12	3	--	--	1	--	--	--	--	--	ONE WAY RIGHT ARROW
9-18	R6-4-B	2S	60X24	10	--	--	--	--	--	--	--	9-17	ROUNDABOUT CHEVRON BANK
9-19	R6-1-R	2S	36X12	3	--	--	1	--	--	--	--	--	ONE WAY RIGHT ARROW
9-20	R6-4-B	2S	60X24	10	--	--	--	--	--	--	--	9-20	ROUNDABOUT CHEVRON BANK
9-21	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
9-22	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	9-21	ONE WAY RIGHT ARROW
9-23	R1-2	2S	36X31	3.88	--	2	--	1		--	--	--	YIELD
9-24	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	9-23	TO TRAFFIC FROM LEFT
9-25	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
9-26	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	9-25	ONE WAY RIGHT ARROW
9-27	R1-2	2S	36X31	3.88	--	2	--	1		--	--	--	YIELD
9-28	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	9-27	TO TRAFFIC FROM LEFT
9-29	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
9-30	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	9-29	ONE WAY RIGHT ARROW
9-31	R1-2	2S	36X31	3.88	--	2	--	1		--	--	--	YIELD
9-32	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	9-31	TO TRAFFIC FROM LEFT
9-33	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
9-34	W16-7R	2S	24X12	--	2	--	--	--	--	--	--	9-33	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
9-35	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
9-36	W16-7L	2S	24X12	2	2	--	--	--	--	--	--	9-35	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
9-37	W11-2	2S	30X30	6.25	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
9-38	W16-7R	2S	24X12	2	2	--	--	--	--	--	--	9-37	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
9-39	W11-2	2S	30X30	6.25	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
9-40	W16-7L	2S	24X12	2	2	--	--	--	--	--	--	9-39	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
9-41	R3-1	2S	24X24	4	--	--	--	1	--	--	--	--	NO RIGHT TURN SYMBOL
10-01	J2-3	2S	72X57	28.5	--	--	--	--	--	2	--	--	ROUTE TURN ASSEMBLY
	M3-1	2S	24X12	--	--	--	--	--	--	--	--	--	NORTH
	M3-2	2S	24X12	--	--	--	--	--	--	--	--	--	EAST
	M1-6	2S	24X24	--	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
SUBTOTALS				263.30	37.00	20	4	10	15	2	0	--	

ALL ITEMS ON THIS SHEET ARE IN CATEGORY 0010

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	634.0612 WOOD POSTS 4X6-IN 12 FT EACH	634.0614 WOOD POSTS 4X6-IN 14 FT EACH	634.0616 WOOD POSTS 4X6-IN 16 FT EACH	634.0618 WOOD POSTS 4X6-IN 18 FT EACH	634.0620 WOOD POSTS 4X6-IN 20 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
	M1-6	2S	24X24	--	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
	M1-1	2S	24X24	--	--	--	--	--	--	--	--	--	INTERSTATE SHEILD ROUTE MARKER (2 DIGIT)
	M5-1L	2S	21X21	--	--	--	--	--	--	--	--	--	ADVANCE ARROW (LEFT TURN)
	M5-1L	2S	21X21	--	--	--	--	--	--	--	--	--	ADVANCE ARROW (LEFT TURN)
10-02	D1-2	Custom	96X24	16	--	--	--	2	--	--	--	--	TWO DESTINATION (ARROWS)
10-03	R4-7	2S	24X30	5	--	--	--	1	--	--	--	--	KEEP RIGHT
10-04	R4-7	2S	24X30	5	--	--	--	1	--	--	--	--	KEEP RIGHT
10-05	J2-3	Custom	72X69	34.5	--	--	--	--	--	--	2	--	ROUTE TURN ASSEMBLY
	M4-1A	2S	24X12	--	--	--	--	--	--	--	--	--	ALT
	M3-4	2S	24X12	--	--	--	--	--	--	--	--	--	WEST
	M3-3	2S	24X12	--	--	--	--	--	--	--	--	--	SOUTH
	M3-2	2S	24X12	--	--	--	--	--	--	--	--	--	EAST
	M1-6	2S	24X24	--	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
	M1-6	2S	24X24	--	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
	M1-1	2S	24X24	--	--	--	--	--	--	--	--	--	INTERSTATE SHEILD ROUTE MARKER (2 DIGIT)
	M5-1L	2S	21X21	--	--	--	--	--	--	--	--	--	ADVANCE ARROW (LEFT TURN)
	M6-1	2S	21X21	--	--	--	--	--	--	--	--	--	ARROW (RIGHT, LEFT, OR AHEAD)
	M6-1	2S	21X21		--	--	--	--	--	--	--	--	ARROW (RIGHT, LEFT, OR AHEAD)
11-01	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
11-02	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	11-01	ONE WAY RIGHT ARROW
11-03	R1-2	2S	36X31	3.88	--	2	--	1	--	--	--	--	YIELD
11-04	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	11-03	TO TRAFFIC FROM LEFT
11-05	D1-1	Custom	36X18	4.5	--	--		1	--	--	--	--	ONE DESTINATION (ARROW)
11-06	J4-1	2S	24X36	6	--	--	--	1	--	--	--	--	REASSURANCE ASSEMBLY
	M3-2	2S	24X12	--	--	--	--	--	--	--	--	--	EAST
	M1-5A	2S	24X24	--	--	--	--	--	--	--	--	--	COUNTY MARKER (2-3 DIGITS)
11-07	D1-4	Custom	72X48	24	--	--	--	--	2	--	--	--	FOUR DESTINATION (ARROWS) *SPECIAL OCCASION ONLY*
11-08	R1-2	2S	36X31	3.88	--	2	--	--	1	--	--	--	YIELD
11-09	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	11-08	ONE WAY RIGHT ARROW
11-10	R1-2	2S	36X31	3.88	--	2	--	1	--	--	--	--	YIELD
11-11	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	11-10	TO TRAFFIC FROM LEFT
11-12	D1-2	Custom	66X30	13.75	--	--	--	2	--	--	--	--	TWO DESTINATION (ARROWS)
11-13	D1-2	Custom	66X30	13.75	--	--	--	2	--	--	--	--	TWO DESTINATION (ARROWS)
11-14	R6-1-R	2S	36X12	3	--	--	1	--	--	--	--	--	ONE WAY RIGHT ARROW
11-15	R6-4-B	2S	60X24	10	--	--	--	--	--	--	--	11-14	ROUNDABOUT CHEVRON BANK
11-16	R6-1-R	2S	36X12	3	--	--	1	--	--	--	--	--	ONE WAY RIGHT ARROW
11-17	R6-4-B	2S	60X24	10	--	--	--	--	--	--	--	11-16	ROUNDABOUT CHEVRON BANK
11-18	R6-1-R	2S	36X12	3	--	--	1	--	--	--	--	--	ONE WAY RIGHT ARROW
11-19	R6-4-B	2S	60X24	10	--	--	--	--	--	--	--	11-18	ROUNDABOUT CHEVRON BANK
11-20	R1-2	2S	36X31	3.88	--	2	--		1	--	--	--	YIELD
11-21	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	11-20	ONE WAY RIGHT ARROW
11-22	R1-2	2S	36X31	3.88	--	2	--	1	--	--	--	--	YIELD
11-23	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	11-22	TO TRAFFIC FROM LEFT
11-24	R1-2	2S	36X31	3.88	--	2	--		1	--	--	--	YIELD
11-25	R6-2R	2S	24X30	5	--	--	--	--	--	--	--	11-24	ONE WAY RIGHT ARROW
11-26	R1-2	2S	36X31	3.88	--	2	--	1	--	--	--	--	YIELD
11-27	R1-54	2S	24X15	2.5	--	--	--	--	--	--	--	11-26	TO TRAFFIC FROM LEFT
11-28	R5-1	2S	30X30	6.25	--	--	--	--	--	--	--	11-20	DO NOT ENTER
11-29	R5-1	2S	30X30	6.25	--	--	--	--	--	--	--	11-22	DO NOT ENTER
SUBTOTALS				235.04	0	16	3	14	6	0	2	--	

3

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	634.0612 WOOD POSTS 4X6-IN 12 FT EACH	634.0614 WOOD POSTS 4X6-IN 14 FT EACH	634.0616 WOOD POSTS 4X6-IN 16 FT EACH	634.0618 WOOD POSTS 4X6-IN 18 FT EACH	634.0620 WOOD POSTS 4X6-IN 20 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
11-30	R3-1	2S	24X24	4	--	--	--	1	--	--	--	--	NO RIGHT TURN SYMBOL
11-31	W11-2	2S	30X30	--	6.25	--	--	--	--	--	--	LIGHT POLE	PEDESTRIAN CROSSING SYMBOL
11-32	W16-7L	2S	24X12	--	2	--	--	--	--	--	--	11-31	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
11-33	R5-57	(5)	36X36	9	--	--	--	--	1	--	--	--	PEDESTRIANS, ETC., PROHIBITED
11-37	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
11-38	W16-7R	2S	24X12	--	2	--	--	--	--	--	--	11-37	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
11-39	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
11-40	W16-7R	2S	24X12	--	2	--	--	--	--	--	--	11-39	RIGHT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
11-41	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
11-42	W16-7L	2S	24X12	--	2	--	--	--	--	--	--	11-41	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
11-43	W11-2	2S	30X30	--	6.25	--	--	--	1	--	--	--	PEDESTRIAN CROSSING SYMBOL
11-44	W16-7L	2S	24X12	--	2	--	--	--	--	--	--	11-43	LEFT DIAGONAL DOWNWARD POINTING ARROW (YELLOW)
12-01	W6-2	2S	36X36	--	9	--	--	--	1	--	--	--	DIVIDED HIGHWAY ENDS SYMBOL
12-02	R5-1A	2S	36X24	6	--	--	--	--	--	--	--	12-01	WRONG WAY
12-03	R4-7	(3)	36X48	12	--	--	--	--	--	1	--	--	KEEP RIGHT
12-04	W5-54	2S	18X18	--	2.25	--	--	--	--	--	--	12-03	CLEARANCE MARKER WITH YELLOW TYPE F SHEETING
12-05	R2-1	2S	24X30	5	--	--	--	1	--	--	--	--	SPEED LIMIT [__] MPH
12-06	R5-1	2S	30X30	6.25	--	--	--	--	--	--	--	12-05	DO NOT ENTER
12-07	W6-3	2S	36X36		9	--	--	--	1	--	--	--	TWO WAY TRAFFIC SYMBOL
12-08	D1-62	Custom	108X84	63		--	--	--	--	--	3	--	ROUNDABOUT DESTINATION - DIRECTION SIGN
12-09	W3-2	2S	36X36	--	9	--	--	--	1	--	--	--	YIELD AHEAD
13-01	W2-6	(3)	36X36	--	9	--	--	--	1	--	--	--	CIRCULAR INTERSECTION SIGN
13-02	W13-1	(3)	24X24	--	4	--	--	--	--	--	--	13-01	ADVISORY SPEED PLATE (YELLOW BACK)
13-03	W6-1	2S	36X36	--	9	--	--	--	1	--	--	--	DIVIDED HIGHWAY AHEAD SYMBOL
13-04	R1-1	2S	30X30	5.18	--	--	--	1	--	--	--	--	STOP SIGN
13-05	J1-2	2S	48X39	13	--	--	--	--	--	2	--	--	JUNCTION OR END ASSEMBLY
	M2-1	2S	21X15	--	--	--	--	--	--	--	--	--	JCT
	M2-1	2S	21X15	--	--	--	--	--	--	--	--	--	JCT
	M1-6	2S	24X24	--	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
	M1-6	2S	24X24	--	--	--	--	--	--	--	--	--	STATE ROUTE MARKER (2-3 DIGITS)
16-01	J2-1	2S	24X57	9.5	--	--	--	--	1	--	--	--	ROUTE TURN ASSEMBLY
	M3-4	2S	24X12	--	--	--	--	--	--	--	--	--	WEST
	M1-5A	2S	24X24	--	--	--	--	--	--	--	--	--	COUNTY MARKER (2-3 DIGITS)
	M5-1L	2S	21X21	--	--	--	--	--	--	--	--	--	ADVANCE ARROW (LEFT TURN)
16-02	J3-1	2S	24X57	9.5	--	--	--	--	1	--	--	--	DIRECTIONAL ASSEMBLY
	M3-4	2S	24X12	--	--	--	--	--	--	--	--	--	WEST
	M1-5A	2S	24X24	--	--	--	--	--	--	--	--	--	COUNTY MARKER (2-3 DIGITS)
	M6-1	2S	21X21	--	--	--	--	--	--	--	--	--	ARROW (RIGHT, LEFT, OR AHEAD)
16-03	J3-2	2S	48X57	19	--	--	--	--	1	--	--	--	DIRECTIONAL ASSEMBLY
	M3-2	2S	24X12	--	--	--	--	--	--	--	--	--	EAST
	M3-4	2S	24X12	--	--	--	--	--	--	--	--	--	WEST
	M1-5A	2S	24X24	--	--	--	--	--	--	--	--	--	COUNTY MARKER (2-3 DIGITS)
	M1-5A	2S	24X24	--	--	--	--	--	--	--	--	--	COUNTY MARKER (2-3 DIGITS)
	M6-1	2S	21X21	--	--	--	--	--	--	--	--	--	ARROW (RIGHT, LEFT, OR AHEAD)
	M6-1	2S	21X21	--	--	--	--	--	--	--	--	--	ARROW (RIGHT, LEFT, OR AHEAD)
16-04	J3-1	2S	24X57	9.5	--	--	--	--	--	--	--	ON EXIST.	DIRECTIONAL ASSEMBLY
	M3-2	2S	24X12	--	--	--	--	--	--	--	--	--	EAST
	M1-5A	2S	24X24	--	--	--	--	--	--	--	--	--	COUNTY MARKER (2-3 DIGITS)
	M6-1	2S	21X21	--	--	--	--	--	--	--	--	--	ARROW (RIGHT, LEFT, OR AHEAD)
16-05	J4-1	2S	24X36	6	--	--	--	--	1	--	--	--	REASSURANCE ASSEMBLY
SUBTOTALS				176.93	92.50	0	0	3	14	3	3	--	

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	*637.0620 SIGN FLAGS PERMANENT TYPE II EACH	634.0612 WOOD POSTS 4X6-IN 12 FT EACH	634.0614 WOOD POSTS 4X6-IN 14 FT EACH	634.0616 WOOD POSTS 4X6-IN 16 FT EACH	634.0618 WOOD POSTS 4X6-IN 18 FT EACH	634.0620 WOOD POSTS 4X6-IN 20 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
	M3-2	2S	24X12	--	--	--	--	--	--	--	--	--	EAST
	M1-5A	2S	24X24	--	--	--	--	--	--	--	--	--	COUNTY MARKER (2-3 DIGITS)
17-01	R1-1	2S	30X30	5.18	--	--	--	1	--	--	--	--	STOP SIGN
18-01	W14-1	2S	30X30	--	6.25	--	--	--	1	--	--	--	DEAD END
18-02	R1-1	2S	30X30	5.18	--	--	--	1	--	--	--	--	STOP SIGN
18-03	W14-1	2S	30X30	--	6.25	--	--	--	1	--	--	--	DEAD END
18-04	W1-1L	2S	36X36	--	9	--	--	--	1	--	--	--	LEFT TURN
18-05	W1-1R	2S	36X36	--	9	--	--	--	1	--	--	--	RIGHT TURN
19-01	W5-56	2S	18X18	2.25	--	--	1	--	--	--	--	--	END OF ROAD MARKER W/ RED TYPE SH SHEETING
19-02	W5-56	2S	18X18	2.25	--	--	1	--	--	--	--	--	END OF ROAD MARKER W/ RED TYPE SH SHEETING
19-03	W5-56	2S	18X18	2.25	--	--	1	--	--	--	--	--	END OF ROAD MARKER W/ RED TYPE SH SHEETING
19-04	W1-1R	2S	36X36	--	9	--	--	--	1	--	--	--	RIGHT TURN
19-05	W1-1L	2S	36X36	--	9	--	--	--	1	--	--	--	LEFT TURN
SUBTOTALS				17.11	48.50	0	3	2	6	0	0	--	
PROJECT TOTALS (INCLUDES TEMPORARY PLAQUES)				**1486.14**	**437.25**	**52**	**16**	**53**	**86**	**16**	**10**	**--**	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN THE PLAN

3

PERMANENT SIGNING (TEMPORARY PLAQUES)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	SIGN MOUNTED ON SAME POST AS	REMARKS
1-08	M3-4	2S	24X12	2	1-06	WEST
1-09	M1-5A	2S	24X24	3.13	1-06	COUNTY MARKER (2-3 DIGITS)
1-10	M3-2	2S	24X12	2	1-06	EAST
1-11	M1-6	2S	24X24	3.13	1-06	STATE ROUTE MARKER (2-3 DIGITS)
1-12	M3-1	2S	24X12	2	1-06	NORTH
3-58	M3-2	2S	24X12	2	3-08	EAST
4-12	M3-2	2S	24X12	2	4-07	EAST
5-05	M3-2	2S	24X12	2	5-01	EAST
6-08	M3-4	2S	24X12	2	6-07	WEST
6-09	M1-5A	2S	24X24	3.13	6-07	COUNTY MARKER (2-3 DIGITS)
7-06	M3-2	2S	24X12	2	7-03	EAST
8-11	M3-4	2S	24X12	2	8-05	WEST
8-12	M1-5A	2S	24X24	3.13	8-05	COUNTY MARKER (2-3 DIGITS)
9-42	M3-4	2S	24X12	2	9-14	WEST
9-43	M1-5A	2S	24X24	3.13	9-14	COUNTY MARKER (2-3 DIGITS)
9-44	M3-2	2S	24X12	2	9-06	EAST
10-06	M3-2	2S	24X12	2	10-01	EAST
11-34	M3-4	2S	24X12	2	11-13	WEST
11-35	M1-5A	2S	24X24	3.13	11-13	COUNTY MARKER (2-3 DIGITS)
11-36	M3-2	2S	24X12	2	11-05	EAST
12-10	M3-4	2S	24X12	2	12-08	WEST
12-11	M1-5A	2S	24X24	3.13	12-08	COUNTY MARKER (2-3 DIGITS)
15-01	M3-4	2S	24X12	2	EXIST. J-ASSMB	WEST
SUBTOTAL				53.91		

3

SIGN REMOVALS

SIGN #	SIGN CODE	638.2101 MOVING SIGNS TYPE I EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	638.4100 MOVING STRUCTURAL STEEL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
1R-01	W14-3	--	--	1	1	--	--	--	NO PASSING ZONE
1R-02	W3-5	--	--	1	1	--	--	--	SPEED LIMIT [__] AHEAD (ARROW)
1R-03	J4-1	--	--	1	1	--	--	--	REASSURANCE ASSEMBLY
1R-04	CUSTOM	--	--	1	--	--	--	1R-03	HUDSON 6
1R-05	R2-1	--	--	1	1	--	--	--	SPEED LIMIT [__] MPH
1R-06	R1-1	--	--	1	1	--	--	--	STOP SIGN
1M-01	I55-56	--	1	--	--	1	--	--	ADOPT A HIGHWAY SPONSOR
1M-02	CUSTOM	--	1	--	--	1	--	--	55 FT MAX TRUCK LENGTH WEST OF RIVER BRIDGE
1M-03	12-3-U	--	1	--	--	1	--	--	HOULTON UNINCORPORATED
2R-01	R2-1	--	--	1	1	--	--	--	SPEED LIMIT [__] MPH
2R-02	J13-1	--	--	1	1	--	--	--	DIRECTIONAL WITHOUT CARDINAL
2R-03	J4-1	--	--	1	1	--	--	--	REASSURANCE ASSEMBLY
2R-04	J13-1	--	--	1	1	--	--	--	DIRECTIONAL WITHOUT CARDINAL
2R-05	J13-2	--	--	1	1	--	--	--	DIRECTIONAL WITHOUT CARDINAL
2M-01	D11-1	--	1	--	--	1	--	--	BIKE ROUTE (SYMBOL)
4R-01	R2-1	--	--	1	1	--	--	--	SPEED LIMIT [__] MPH
4R-02	S1-1	--	--	1	1	--	--	--	SCHOOL ADVANCE
5R-01	R2-1	--	--	1	1	--	--	--	SPEED LIMIT [__] MPH
5R-02	R2-1	--	--	1	1	--	--	--	SPEED LIMIT [__] MPH
5R-03	R2-1	--	--	1	1	--	--	--	SPEED LIMIT [__] MPH
5R-04	R2-1	--	--	1	1	--	--	--	SPEED LIMIT [__] MPH
7R-01	W14-3	--	--	1	1	--	--	--	NO PASSING ZONE
8R-01	R1-1	--	--	1	1	--	--	--	STOP SIGN
8M-01	R1-1	--	1	--	--	1	--	--	STOP SIGN
8M-02	CUSTOM	--	1	--	--	2	--	--	ANDERSON SCOUT CAMP
8M-03	R1-1	--	1	--	--	1	--	--	STOP SIGN
8M-04	R12-52	--	1	--	--	1	--	--	AXLE WEIGHT LIMIT [1 AX] [__] TONS [2 AX] [__] TONS
8M-05	CUSTOM	--	1	--	--	--	--	8M-04	3 TONS FOR EA. AXLE
9R-01	W14-3	--	--	1	1	--	--	--	NO PASSING ZONE
9R-02	W14-3	--	--	1	1	--	--	--	NO PASSING ZONE
9M-01	CUSTOM	--	1	--	--	2	--	--	ANDERSON CAMP ROAD
10R-01	W8-8	--	--	1	1	--	--	--	ROUGH ROAD
10R-02	R1-1	--	--	1	1	--	--	--	STOP SIGN
10R-03	R12-52	--	--	1	1	--	--	--	AXLE WEIGHT LIMIT [1 AX] [__] TONS [2 AX] [__] TONS
10R-04	CUSTOM	--	--	--	--	--	--	10R-03	3 TONS EA. AXLE
10M-04	I55-56	--	1	--	--	1	--	--	ADOPT A HIGHWAY SPONSOR
11M-01	R2-1	--	1	--	--	1	--	--	SPEED LIMIT [__] MPH
11M-02	W6-1	--	1	--	--	1	--	--	DIVIDED HIGHWAY AHEAD SYMBOL
11M-03	CUSTOM	1	--	--	--	--	2	--	ANDERSON SCOUT CAMP ROAD EXIT 1 MILE
11R-01	W6-3	--	--	1	1	--	--	--	TWO WAY TRAFFIC
12R-01	R4-7	--	--	1	1	--	--	--	KEEP RIGHT
12R-02	W6-2	--	--	1	1	--	--	--	DIVIDED HIGHWAY ENDS SYMBOL
12M-01	R2-1	--	1	--	--	1	--	--	SPEED LIMIT [__] MPH
13R-01	W4-2R	--	--	1	1	--	--	--	LANE REDUCTION TRANSITION SYMBOL (RIGHT)
13R-02	W9-1R	--	--	1	1	--	--	--	RIGHT LANE ENDS
SUBTOTALS		**1**	**14**	**29**	**28**	**15**	**2**		

ALL ITEMS ON THIS SHEET ARE IN CATEGORY 0010

SIGN REMOVALS (CONT)

SIGN #	SIGN CODE	638.2101 MOVING SIGNS TYPE I EACH	638.2102 MOVING SIGNS TYPE II EACH	*638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	638.4100 MOVING STRUCTURAL STEEL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
SUBTOTALS		1	14	29	28	15	2		
13R-03	R2-1	--	--	1	1	--	--	--	SPEED LIMIT [__] MPH
13R-04	R2-1	--	--	1	1	--	--	--	SPEED LIMIT [__] MPH
13M-01	R8-7	--	1	--	--	1	--	-	EMERGENCY STOPPING ONLY
13M-02	R4-3	--	1	--	--	1	--	--	SLOWER TRAFFIC KEEP RIGHT
14-01	W3-5	--	--	1	1	--	--	--	SPEED LIMIT [__] AHEAD (ARROW)
14-02	W3-5	--	--	1	1	--	--	--	SPEED LIMIT [__] AHEAD (ARROW)
PROJECT TOTALS		**1**	**16**	**33**	**32**	**17**	**2**		

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN THE PLAN

PAVEMENT MARKING EPOXY AND CONTRAST TAPE ITEMS

STATION - STATION	LOCATION	*646.0106 EPOXY 4-INCH WHITE (LF)	*646.0106 EPOXY 4-INCH YELLOW (LF)	646.0126 8-INCH EPOXY WHITE (LF)	647.0766 CROSSWALK EPOXY 6-INCH (LF)	646.0843.S GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (LF)	646.0883.S GROOVED WET REFLECTIVE TAPE 8-INCH (LF)	647.0166 ARROWS EPOXY TYPE 2 (LF)	647.0456 CURB EPOXY (LF)	647.0566 STOP LINE EPOXY (LF)	647.0606 ISLAND NOSE EPOXY (EACH)	647.0726 DIAGONAL EPOXY 12-INCH YELLOW (LF)
297+60 - 300+00	STH 35	480	610	0	0	0	0	0	0	0	0	0
300+00 - 306+00	STH 35	1315	1493	38	0	0	90	0	10	0	1	73
	STH 35/MAIN ST RAB	518	1153	0	250	0	340	0	0	0	0	14
312+00 - 317+80	MAIN STREET	838	1184	0	0	0	0	0	10	15	2	15
6+50 - 11+00	STH 35	880	900	0	0	0	0	0	0	0	0	0
11+00 - 17+00	STH 35	1506	1000	214	0	0	0	0	0	0	0	0
17+00 - 23+00	STH 35	1666	1069	1032	140	0	0	13	20	70	2	0
23+00 - 28+00	STH 35	1196	830	336	0	0	0	0	0	0	0	0
	STH 64 SB RAB/OFF RAMP	726	947	0	0	422	0	0	0	0	0	27
33+00 - 37+00	STH 35	674	720	0	0	0	0	0	20	0	2	150
	STH 64 NB RAB/OFF RAMP	512	608	0	0	335	0	0	0	0	0	0
41+75 - 47+00	CTH E	1050	1510	0	0	0	0	0	10	0	1	115
47+00 - 52+50	CTH E	973	313	0	0	0	0	0	0	0	0	0
52+50 - 55+00	CTH E	500	63	0	0	0	0	0	0	0	0	0
	SCHOOL RD	1220	295	0	0	0	0	0	0	0	0	0
	THELEN FARM TL	842	120	0	0	0	0	0	0	30	0	0
231+00 - 248+60	FRONTAGE ROAD A	3410	1840	0	0	0	0	0	0	0	0	0
233+30 - 243+00	FRONTAGE ROAD C	1940	1008	0	0	0	0	0	0	0	0	0
257+00 - 272+92	FRONTAGE ROAD C	3184	1484	0	0	0	0	0	0	0	0	0
** UNDISTRIBUTED		1171	857			38	22		5		0	21
	SUBTOTAL	24,601	18,004									
TOTALS		**42,605**		**1,620**	**390**	**795**	**455**	**13**	**75**	**115**	**8**	**415**

** 5% OF THE ITEM TOTAL
*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN THE PLAN

TRAFFIC CONTROL COVERING SIGNS TYPE II

STATION - STATION	LOCATION	*643.0920 (EACH)
297+60 - 300+00	STH 35	2
300+00 - 306+00	STH 35	3
	STH 35/MAIN ST RAB	2
312+00 - 317+80	MAIN STREET	1
6+50 - 11+00	STH 35	2
11+00 - 17+00	STH 35	3
17+00 - 23+00	STH 35	3
23+00 - 28+00	STH 35	4
	STH 64 SB RAB	4
33+00 - 37+00	STH 35	3
	STH 64 NB RAB	4
41+75 - 47+00	CTH E	3
47+00 - 52+50	CTH E	1
52+50 - 55+00	CTH E	0
	SCHOOL RD	0
	FRONTAGE RD B	1
TOTALS		**36**

ITEM FOR COVERING PERMANENT SIGNS PLACED IN THIS CONTRACT. SIGNS WILL BE COVERED ONCE. COVERS TO BE REMOVED BY A FUTURE CONTRACT.
*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN THE PLAN

3

FIELD OFFICE TYPE D

CATEGORY	LOCATION	642.5401 EACH
0010	8110-02-72 PROJECT	1
	TOTAL 0010	1

TRAFFIC CONTROL BARRICADES PERMANENT TYPE III

CATEGORY	LOCATION	643.0453 EACH
0010	STAGE 3 THROUGH WINTER	16
0010	WINTER	22
	TOTAL 0010	38

3

TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (8110-02-72)

CATEGORY	LOCATION	643.0200 DAY
0010	PROJECT	310
	TOTAL 0010	310

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS

CATEGORY	STATION TO STATION	LOCATION	643.0500 EACH	REMARKS
0010	285+00 - 315+00	STAGE 1	118	
0010		STAGE 2	118	
0010		STAGE 3	103	
0010		UNDISTRIBUTED	118	FOR REPLACEMENTS
		TOTAL 0010	457	

TRAFFIC CONTROL DRUMS

CATEGORY	LOCATION	643.0300 DAY	REMARKS
0010	STAGE 1	11,808	246 DRUMS 48 DAYS
0010	STAGE 2	37,884	246 DRUMS 154 DAYS
0010	STAGE 3	8,188	178 DRUMS 46 DAYS
	TOTAL 0010	57,880	

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES

CATEGORY	LOCATION	643.0600 EACH
0010	STAGE 1	118
0010	STAGE 2	118
	UNDISTRIBUTED FOR REPLACEMENTS	118
	TOTAL 0010	354

TRAFFIC CONTROL BARRICADES TYPE III

CATEGORY	LOCATION	643.0420 DAY	REMARKS
0010	STAGE 1	720	15 BARRICADES 48 DAYS
0010	STAGE 2	2,772	18 BARRICADES 154 DAYS
0010	STAGE 3	230	5 BARRICADES 46 DAYS
0010	CTH E DETOUR	736	16 BARRICADES 46 DAYS
0010	ANDERSEN DETOUR	1,386	9 BARRICADES 154 DAYS
	TOTAL 0010	5,844	

TRAFFIC CONTROL WARNING LIGHTS TYPE A

CATEGORY	LOCATION	643.0705 DAY	REMARKS
0010	CTH E DETOUR	1,472	32 LIGHTS 46 DAYS
0010	ANDERSEN DETOUR	2,772	18 LIGHTS 154 DAYS
0010	STAGE 1	1,440	30 LIGHTS 48 DAYS
0010	STAGE 2	5,544	36 LIGHTS 154 DAYS
0010	STAGE 3	460	10 LIGHTS 46 DAYS
	TOTAL 0010	11,688	

3

TRAFFIC CONTROL WARNING LIGHTS TYPE C

CATEGORY	LOCATION	643.0715 DAY	REMARKS
0010	STAGE 1	1,392	29 LIGHTS 48 DAYS
0010	STAGE 2	10,010	65 LIGHTS 154 DAYS
0010	STAGE 3	828	18 LIGHTS 46 DAYS
	TOTAL 0010	12,230	

TRAFFIC CONTROL ARROW BOARDS

CATEGORY	LOCATION	643.0800 DAY
0010	STAGE 1	2
0010	STAGE 2	2
0010	STAGE 3	1
	TOTAL 0010	5

TRAFFIC CONTROL SIGNS

CATEGORY	LOCATION	643.0900 DAY	REMARKS
0010	ADVANCED WARNING	11,656	47 SIGNS 248 DAYS
0010	STAGE 1	1,632	34 SIGNS 48 DAYS
0010	STAGE 2	4,312	44 SIGNS 154 DAYS
0010	STAGE 3	184	4 SIGNS 46 DAYS
	TOTAL 0010	17,784	

TRAFFIC CONTROL COVERING SIGNS TYPE II

CATEGORY	LOCATION	643.0920 EACH	REMARKS
0010	STH 64	1	SPEED LIMIT 65 NORTH OF V INT.
	TOTAL 0010	1	*QTY ELSEWHERE IN MQ SHEETS

TRAFFIC CONTROL SIGNS PCMS

CATEGORY	LOCATION	643.1050 DAY	REMARKS
0010	STAGE 1 STH 64	96	2 PCMS 48 DAYS
	TOTAL 0010	96	

TRAFFIC CONTROL DETOUR (8110-02-72)

CATEGORY	LOCATION	643.2000 EACH
0010	CTH E DETOUR & ANDERSON SCOUT CAMP RD. DETOUR	1
	TOTAL 0010	1

TRAFFIC CONTROL DETOUR SIGNS

CATEGORY	LOCATION	643.3000 DAY	REMARKS
0010	CTH E DETOUR	7,222	157 SIGNS 46 DAYS
0010	ANDERSEN DETOUR	2,002	13 SIGNS 154 DAYS
	TOTAL 0010	9,224	

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PAVEMENT MARKING EPOXY 4-INCH

CATEGORY	STATION TO STATION	LOCATION	646.0106 LF	REMARKS
0010	318+00 - 355+00	STH 64 CENTERLINE	3,700	FROM S1 TO WINTER
		TOTAL 0010	3700	

TEMPORARY PAVEMENT MARKING 4-INCH

CATEGORY	LOCATION	649.0100 LF	REMARKS
0010	STAGE 1	8,576	STH 64 CENTER, X-OVER S1 S2
0010	STAGE 2	9,324	STH 35 BYPASS
	TOTAL 0010	17,900	

3

REMOVING PAVEMENT MARKINGS

CATEGORY	LOCATION	646.0600 LF	REMARKS
0010	STAGE 1, 2	9,770	X-OVER, TAPER S1 S2
0010	STAGE 2	2,256	STH 35 BYPASS
0010	STAGE 3	1,891	X-OVER, TAPER, STH 64 BYPASS
	TOTAL 0010	13,917	

REMOVING RAISED PAVEMENT MARKERS

CATEGORY	LOCATION	646.0790.S EACH	REMARKS
0010		49	SAME AS TEMP RAISED
0010		183	
	TOTAL 0010	232	

TEMPORARY RAISED PAVEMENT MARKERS

CATEGORY	LOCATION	649.2100 EACH	REMARKS
0010	STAGE 1	49	S1 S2 X-OVER
0010	STAGE 2	183	BYPASS
	TOTAL 0010	232	

650.4500 CONSTRUCTION STAKING SUBGRADE
650.5000 CONSTRUCTION STAKING BASE
650.9920 CONSTRUCTION STAKING SLOPE STAKES
SPV.0090.20 SPECIAL (20. CONSTRUCTION STAKING SELECT SUBGRADE)

650-CONSTRUCTION STAKING

CATEGORY	STATION TO	STATION	LOCATION	SUBGRADE 650.4500 LF	BASE 650.5000 LF	CONSTRUCTION STAKING SLOPE STAKES 650.9920 LF	SPECIAL (20. CONSTRUCTION STAKING SELECT SUBGRADE) SPV.0090.20 LF	REMARKS
0010	183+50	185+50	STH 64 EB	200	200	200	200	
0010	183+50	185+50	STH 64 WB	200	200	200	200	
0010	200+00	307+00	STH 64 EB	10,700	10,700	10,700	10,700	
0010	200+00	230+50	STH 64 WB	3,050	3,050	3,050	3,050	
0010	230+50	307+00	STH 64 WB	7,650	-	7,650	7,650	
0010	175+75	177+11	SE RAMP	136	136	136		
0010	177+11	181+76	SE RAMP	465	-	465		
0010	176+00	178+00	SW RAMP	200	200	200		
0010	178+00	181+19	SW RAMP	319	-	319		
0010	182+33	185+50	NE RAMP	317	-	317		
0010	185+50	200+00	NE RAMP	1,450	1,450	1,450		
0010	181+21	186+35	NW RAMP	514	-	514		
0010	186+35	194+00	NW RAMP	765	765	765		
0010	218+50	248+60	FRONTAGE ROAD A	3,010	3,010	3,010		
0010	242+15	265+30	FRONTAGE ROAD B	2,315	2,315	2,315		
0010	CUL-DE-SAC		FRONTAGE ROAD B	100	100	100		
0010	232+79	240+19	FRONTAGE ROAD C	740	740	740		
0010	257+00	272+67	FRONTAGE ROAD C	1,570	1,570	1,570		
0010	5+00	28+00	STH 35/CTH E	2,300	2,940	2,940	2,300	
0010	28+00	29+44	STH 35/CTH E	144	-	2,940	-	
0010	31+15	34+25	STH 35/CTH E	310	-	1,770	-	
0010	36+50	37+58	STH 35/CTH E	108	-	1,770	-	
0010	39+25	40+71	STH 35/CTH E	146	-	1,770	-	
0010	40+71	54+90	STH 35/CTH E	1,419	1,419	1,770	1,419	
0010	10+40	18+00	SCHOOL ROAD	760	760	760		
0010	80+25	83+50	THELEN FARM RD	325	325	325		
0010	302+14	318+04	STH 35 N/S	1,590	1,590	1,590	1,590	T INT.
0010	0+80	3+70	13TH STREET	290	290	290	290	SOUTH
0010	2+00	5+50	DURAND P.E.	350	350	350		
0010	10+28	11+59	SEVERSON P.E.	130	130	130		
0010	10+00	14+49	PLAHN P.E.	450	450	450		
			TOTAL 0010	42,023	32,690	50,556	27,399	

CONSTRUCTION STAKING PIPE CULVERTS

CATEGORY	STATION	LOCATION	650.6000 EACH	REMARKS
0010	224+75.00	FR RD A	1	9.0
0010	226+00.00	FR RD A	1	10.0
0010	233+00.00	FR RD A	1	11.0
0010	242+30.00	FR RD A	1	14.0
0010	243+50.00	FR RD A	1	15.0
0010	235+00.00	STH 64	1	113.0
0010	262+02.00	FR RD B	1	18.0
0010	265+50.00	FR RD B	1	19.0
0010	233+92.00	FR RD C	1	13.0
0010	236+64.00	FR RD C	1	12.0
0010	270+98.00	FR RD C	1	29.0
0010	8+00.00	STH 35	1	26.0
0010	46+00.00	STH 35	1	22.0
0010	51+20.00	STH 35	1	23.0
0010	52+10.00	STH 35	1	24.0
0010	47+00.00	STH 35	1	25.0
		TOTAL 0010	16	

CONSTRUCTION STAKING STRUCTURE LAYOUT

CATEGORY	LOCATION		CONSTRUCTION STAKING STRUCTURE LAYOUT (01. B-55-226) 650.6500.01 LS	CONSTRUCTION STAKING STRUCTURE LAYOUT (02. C-55-35) 650.6500.02 LS	CONSTRUCTION STAKING STRUCTURE LAYOUT (03. C-55-36) 650.6500.03 LS
0020	B-55-226		1		
		TOTAL 0020	1		
0030	C-55-35			1	
		TOTAL 0030		1	
0050	C-55-36				1
		TOTAL 0050			1

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (8110-02-72)

CATEGORY	LOCATION	650.9910 LS
0010	STH 64 8110-02-72	1
	TOTAL 0010	1

SAWING ASPHALT

CATEGORY	STATION	LOCATION	690.0150 LF
0010	218+47	FRONTAGE RD A	30
0010	248+61	FRONTAGE RD A	26
0010	233+25	FRONTAGE RD C	24
0010	240+33	FRONTAGE RD C	30
0010	257+00	FRONTAGE RD C	30
0010	272+92	FRONTAGE RD C	24
0010	315+00	STH 35 N	30
0010		PETERSON RD	24
0010	297+60	STH 35 S	30
0010	18+00	SCHOOL RD	30
0010		EXISTING CTH E	30
0010	53+00	PLAHN PE	20
0010	55+00	CTH E	30
0010	83+90	THELEN FARM TR	24
		TOTAL 0010	382

SAWING CONCRETE

CATEGORY	LOCATION	690.0250 LF
0010	STH 35/64 STA 304+00	52
	TOTAL 0010	52

3

LIGHTING CONDUIT AND WIRE

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	*655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
CB100	PB100	40	--	--	280	--
CB100	PB100	--	--	--	--	--
PB100	SL100	--	30	--	410	--
PB100	PB101	70	--	--	410	--
PB101	SL101	--	25	--	360	--
SL101	SL102	150	--	--	805	--
SL102	SL103	200	--	--	1,050	--
PB101	PB102	50	--	--	310	--
PB102	PB103	105	--	--	585	--
PB103	SL104	--	25	--	360	--
PB103	SL105	60	--	--	355	--
PB103	PB104	80	--	--	--	--
PB104	SL106	220	--	--	1,155	--
SL106	SL107	205	--	--	1,075	--
PB104	PB105	50	--	--	310	--
PB105	SL108	30	--	--	205	--
SL108	SL109	135	--	--	725	--
SL109	PB106	85	--	--	480	--
PB106	PB107	65	--	--	385	--
PB107	SL110	--	25	--	360	--
SL110	SL111	135	--	--	725	--
PB107	PB108	50	--	--	310	--
PB108	CB100	35	--	--	255	--
PB108	CB100	--	--	--	--	--
CB 200	PB 200	30	--	--	--	230
PB 200	PB 201	45	--	--	--	305
PB 201	SL 204	--	15	--	--	390
PB 201	SL 205	50	--	--	--	305
SL 205	PB 202	95	--	--	--	530
PB 202	PB 203	40	--	--	--	260
PB 203	SL 206	40	--	--	--	255
SL 206	SL 207	170	--	--	--	540
PB 201	PB 204	50	--	--	--	310
PB 204	SL 208	70	--	--	--	405
SL 208	PB 205	--	70	--	--	810
PB 205	SL 213	155	--	--	--	830
SL 213	PB 207	95	--	--	--	530
PB 207	SL 215	180	--	--	--	955
SL 215	PB 208	--	145	--	--	1,560
PB 208	SL 217	80	--	--	--	455
SL 217	PB 210	75	--	--	--	430
PB 210	PB 211	45	--	--	--	285
PB 211	SL 218	--	10	--	--	210
PB 211	SL 219	65	--	--	--	380
SL 219	PB 212	--	45	--	--	560
PB 212	SL 221	150	--	--	--	805
SL 221	SL 222	175	--	--	--	555
PB 212	PB 213	60	--	--	--	360
PB 213	SL 220	15	--	--	--	130
PB 213	PB 214	60	--	--	--	--
SUBTOTALS		**3510**	**390**	**0**	**10910**	**12385**

3

LIGHTING CONDUIT AND WIRE (CONTINUED)

FROM	TO	**652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	*655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
PB 214	PB 215	90	--	--	--	--
PB 215	SL 223	--	10	--	--	220
PB 215	SL 224	135	--	--	--	730
SL 224	PB 216	20	--	--	--	93
PB 216	PB 217	35	--	--	--	141
PB 217	SL 225	155	--	--	--	498
PB 215	PB 218	50	--	--	--	310
PB 218	SL 226	55	--	--	--	330
SL 226	PB 219	85	--	--	--	480
PB 219	PB 209	40	--	--	--	--
PB 209	SL 216	10	--	--	--	105
PB 209	PB 208	50	--	--	--	310
PB 219	SL 214	270	--	--	--	1,405
SL 214	PB 220	55	--	--	--	330
PB 220	PB 221	250	--	--	--	1,310
PB 221	PB 206	45	--	--	--	--
PB 206	SL 209	10	--	--	--	105
PB 206	PB 205	45	--	--	--	285
PB 221	SL 210	65	--	--	--	380
SL 210	PB 222	70	--	--	--	405
PB 222	PB 223	85	--	--	--	485
PB 223	SL 211	100	--	--	--	333
PB 223	PB 224	--	45	--	--	456
PB 223	PB 224	45	--	--	--	--
PB 224	SL 212	--	25	--	--	468
PB 224	PB 225	70	--	--	--	410
PB 224	PB 225	70	--	--	--	--
PB 225	SL 203	--	15	--	--	390
SL 203	SL 202	35	--	--	--	135
PB 225	SL 201	150	--	--	--	805
SL 201	SL 200	205	--	--	--	1,075
PB 225	PB 226	70	--	--	--	410
PB 225	PB 226	70	--	--	--	--
PB 226	CB 200	80	--	--	--	480
PB 226	CB 200	80	--	--	--	--
CB 200	PB 227	15	--	--	--	--
CB 200	PB 229	15	--	155	--	--
PB 227	PB 228	240	--	--	--	--
PB229	PB230	240	--	1,260	--	--
PB 223	PB 231	180	--	--	--	--
SUBTOTALS		**3285**	**95**	**1415**	**0**	**12884**
PROJECT TOTALS		**6795**	**485**	**1415**	**10910**	**25270**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN THE PLAN
**ADDITIONAL QUANTITIES LISTED ON B-55-226 STRUCTURE PLAN

ALL ITEMS ON THIS SHEET ARE IN CATEGORY 0010

LIGHTING PULLBOXES

PULLBOX NUMBER	STATION	OFFSET	R/L	653.0140 PULLBOXES STEEL 24X42-INCH EACH
PB 100	309+29'J'	47.1'	RT	1
PB 101	6+08'H'	23.0'	RT	1
PB 102	6+17'G'	37.1'	RT	1
PB 103	307+96'J'	33.1'	RT	1
PB 104	307+74'K'	11.6'	RT	1
PB 105	307+89'K'	35.3'	LT	1
PB 106	309+86'K'	34.5'	LT	1
PB 107	310+16'K'	17.7'	RT	1
PB 108	310+05'J'	33.5'	RT	1
PB 200	180+76'E'	76.0'	LT	1
PB 201	30+05'H'	46.6'	LT	1
PB 202	182+69'E'	10.5'	LT	1
PB 203	182+80'E'	46.1'	LT	1
PB 204	30+43'H'	32.5'	LT	1
PB 205	31+55'H'	28.0'	LT	1
PB 206	31+73'H'	15.2'	RT	1
PB 207	34+15'H'	37.0'	LT	1
PB 208	37+46'H'	36.7'	LT	1
PB 209	37+29'H'	9.0'	RT	1
PB 210	38+73'H'	37.2'	LT	1
PB 211	38+92'H'	47.2'	LT	1
PB 212	40+06'H'	33.4'	LT	1
PB 213	40+12'H'	25.2'	RT	1
PB 214	39+76'G'	29.6'	RT	1
PB 215	181+45'D'	13.8'	RT	1
PB 216	179+72'D'	9.0'	RT	1
PB 217	179+62'D'	43.1'	RT	1
PB 218	181+20'D'	28.5'	LT	1
PB 219	37+19'H'	45.6'	RT	1
PB 220	34+07'H'	32.0'	RT	1
PB 221	31+46'G'	28.0'	RT	1
PB 222	181+02'C'	25.5'	RT	1
PB 223	181+15'C'	56.2'	LT	1
PB 224	29+39'G'	34.0'	RT	1
PB 225	29+19'H'	37.4'	RT	1
PB 226	29+27'H'	29.7'	LT	1
PB 227	180+93'E'	87.7'	LT	1
PB 228	27+81'H'	101.3'	LT	1
PB 229	180+75'E'	80.8'	LT	1
PB 230	SEE C-55-0035 PLANS			--
PB231	SEE C-55-0035 PLANS			--
	TOTAL			**39**

STREET LIGHTS

LIGHT NUMBER	STATION	OFFSET	R/L	654.0106 CONCRETE BASES TYPE 6 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0327 POLES TYPE 6 ALUMINUM EACH	657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT EACH	659.1120 LUMINAIRES UTILITY LED B EACH	*655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
SL 100	309+50'J'	36.1'	RT	1	1	1	1	1	168
SL 101	6+24'H'	12.7'	RT	1	1	1	2	2	336
SL 102	7+69'H'	10.7'	RT	1	1	1	2	2	336
SL 103	9+68'H'	10.9'	RT	1	1	1	2	2	336
SL 104	308+19'J'	32.1'	RT	1	1	1	1	1	168
SL 105	307+19'J'	34.6'	RT	1	1	1	2	2	336
SL 106	305+65'K'	13.4'	RT	1	1	1	2	2	336
SL 107	303+65'K'	16.8	RT	1	1	1	2	2	336
SL 108	308+13'K'	35.7'	LT	1	1	1	1	1	168
SL 109	309+11'K'	39.3'	LT	1	1	1	1	1	168
SL110	310+33'K'	10.5'	RT	1	1	1	2	2	336
SL111	311+61'K'	7.8'	RT	1	1	1	2	2	336
SL 200	25+68'H'	9.6'	RT	1	1	1	2	2	336
SL 201	27+67'H'	19.4'	LT	1	1	1	2	2	336
SL 202	29+02'H'	16.0	RT	1	1	1	1	1	168
SL 203	29+35'H'	29.1'	RT	1	1	1	1	1	168
SL 204	29+98'H'	37.9'	LT	1	1	1	1	1	168
SL 205	181+69'E'	21.3'	LT	1	1	1	2	2	336
SL 206	185+14'E'	35.4'	LT	1	1	1	1	1	168
SL 207	184+70'E'	20.1'	LT	1	1	1	1	1	168
SL 208	30+87'H'	49.9'	LT	1	1	1	1	1	168
SL 209	31+81'H'	12.5'	RT	1	1	1	2	2	336
SL 210	30+80'G'	29.7'	RT	1	1	1	1	1	168
SL 211	180+37'C'	14.0'	LT	1	1	1	1	1	168
SL 212	29+65'G'	32.1'	RT	1	1	1	2	2	336
SL 213	33+25'H'	27.5	LT	1	1	1	1	1	168
SL 214	34+48'G'	20.2'	RT	--	--	1	1	1	168
SL 215	35+92'H'	33.5'	LT	--	--	1	1	1	168
SL 216	37+38'H'	12.1'	RT	1	1	1	2	2	336
SL 217	38+26'H'	47.2'	LT	1	1	1	1	1	168
SL 218	38+95'H'	52.9'	LT	1	1	1	1	1	168
SL 219	39+56'H'	28.1'	LT	1	1	1	1	1	168
SL 220	40+21'H'	23.8'	RT	1	1	1	2	2	336
SL 221	41+61'H'	29.2'	LT	1	1	1	1	1	168
SL 222	45+35'H'	28.0'	LT	1	1	1	1	1	168
SL 223	181+56'D'	11.0'	RT	1	1	1	2	2	336
SL 224	179+93'D'	11.8'	RT	1	1	1	2	2	336
SL 225	178+19'D'	16.5'	RT	1	1	1	1	1	168
SL 226	38+14'G'	32.0'	RT	1	1	1	1	1	168
	TOTALS			**37**	**37**	**39**	**56**	**56**	**9410**

*QUANTITIES LISTED ELSEWHERE

LIGHTING CONTROL & MISCELLANEOUS ITEMS

CABINET NUMBER	STATION	OFFSET	R/L	654.0230 CONCRETE CONTROL CABINET BASE TYPE L30 EACH	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH EACH	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS	656.0200.02 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS	650.8500.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS LS
	PROJECT (8110-02-72)			--	--	--	--	1
CB100	309+72'J'	38.8'	RT	1	1	1	--	--
CB200	181+39'E'	38.6'	LT	1	1	--	1	--
		TOTALS		**2**	**2**	**1**	**1**	**1**

3

SPECIAL (11. TRAFFIC CONTROL SIGNS)

CATEGORY	LOCATION	SPV.0060.11 EACH
0010	STAGE 3 THROUGH WINTER	57
0010	WINTER	12
	TOTAL 0010	69

SPECIAL (30. CONSTRUCTION STAKING CONCRETE PAVEMENT JOINT LAYOUT)

CATEGORY	LOCATION	SPV.0105.30 LS
0010		1
	TOTAL 0010	1

SPECIAL (41. CONSTRUCTION STAKING CONCRETE ROUNDABOUT WEST RAMP TERMINAL)

CATEGORY	LOCATION	SPV.0105.41 LS
0010	WEST TERM RAB	1
	TOTAL 0010	1

3

SPECIAL (20. CONSTRUCTION STAKING STORMWATER POND)

CATEGORY	LOCATION	SPV.0060.20 EACH
0010	GORE POND	1
0010	GLEN POND	1
0010	POND E	1
	TOTAL 0010	3

SPECIAL (40. CONSTRUCTION STAKING CONCRETE ROUNDABOUT EAST RAMP TERMINAL)

CATEGORY	LOCATION	SPV.0105.40 LS
0010	EAST TERM RAB	1
	TOTAL 0010	1

SPECIAL (42. CONSTRUCTION STAKING ROUNDABOUT STH 35/MAIN ST)

CATEGORY	LOCATION	SPV.0105.42 LS
0010	STH 35/MAIN ST ROUNDABOUT	1
	TOTAL 0010	1

SPECIAL (40. TRAFFIC CONTROL, VERTICAL PANELS)

CATEGORY	LOCATION	SPV.0060.40 EACH	REMARKS
0010	STH 64	259	WINTER
	UNDISTRIBUTED	39	
	TOTAL 0010	298	

SPECIAL (20. CONCRETE CRACK MITIGATION AND REPAIR SPECIAL)

CATEGORY	LOCATION	SPV.0105.20 LS
0010		1
	TOTAL 0010	1

SPECIAL (60. CLEANING, GRADING & SHAPING EXISTING DITCH)

CATEGORY	STATION	LOCATION	SPV.0090.60 LF	REMARKS
0010	304+05	STH 35/64 EB/WB	100	LEFT/RIGHT
0010	297+59	STH 35 NB/SB	100	LEFT/RIGHT
0010	314+63	MAIN ST NB/SB	100	LEFT/RIGHT
0010	54+94	CTH E EB/WB	100	LEFT/RIGHT
0010	218+51	FRONTAGE ROAD A	100	LEFT/RIGHT
0010	248+61	FRONTAGE ROAD A	100	LEFT/RIGHT
0010	233+36	FRONTAGE ROAD C	100	LEFT/RIGHT
0010	240+20	FRONTAGE ROAD C	50	SOUTH DITCH
0010	257+00	FRONTAGE ROAD C	50	SOUTH DITCH
0010	272+66	FRONTAGE ROAD C	100	LEFT/RIGHT
	TOTAL 0010		900	

3

PERMANENT SIGNING (CONTINUED)

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	*637.0620 SIGN FLAGS PERMANENT TYPE II EACH	634.0612 WOOD POSTS 4X6-IN 12 FT EACH	634.0614 WOOD POSTS 4X6-IN 14 FT EACH	634.0616 WOOD POSTS 4X6-IN 16 FT EACH	634.0618 WOOD POSTS 4X6-IN 18 FT EACH	634.0620 WOOD POSTS 4X6-IN 20 FT EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
	M3-2	2S	24X12	--	--	--	--	--	--	--	--	--	EAST
	M1-5A	2S	24X24	--	--	--	--	--	--	--	--	--	COUNTY MARKER (2-3 DIGITS)
17-01	R1-1	2S	30X30	5.18	--	--	--	1	--	--	--	--	STOP SIGN
18-01	W14-1	2S	30X30	--	6.25	--	--	--	1	--	--	--	DEAD END
18-02	R1-1	2S	30X30	5.18	--	--	--	1	--	--	--	--	STOP SIGN
18-03	W14-1	2S	30X30	--	6.25	--	--	--	1	--	--	--	DEAD END
18-04	W1-1L	2S	36X36	--	9	--	--	--	1	--	--	--	LEFT TURN
18-05	W1-1R	2S	36X36	--	9	--	--	--	1	--	--	--	RIGHT TURN
19-01	W5-56	2S	18X18	2.25	--	--	1	--	--	--	--	--	END OF ROAD MARKER W/ RED TYPE SH SHEETING
19-02	W5-56	2S	18X18	2.25	--	--	1	--	--	--	--	--	END OF ROAD MARKER W/ RED TYPE SH SHEETING
19-03	W5-56	2S	18X18	2.25	--	--	1	--	--	--	--	--	END OF ROAD MARKER W/ RED TYPE SH SHEETING
19-04	W1-1R	2S	36X36	--	9	--	--	--	1	--	--	--	RIGHT TURN
19-05	W1-1L	2S	36X36	--	9	--	--	--	1	--	--	--	LEFT TURN
SUBTOTALS				17.11	48.50	0	3	2	6	0	0	--	
PROJECT TOTALS (INCLUDES TEMPORARY PLAQUES)				**1486.14**	**437.25**	**52**	**16**	**53**	**86**	**16**	**10**	**--**	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN THE PLAN

SPECIAL (20. CONCRETE PAVEMENT 9.0-INCH SPECIAL)
CONSTRUCTION STAKING CONCRETE PAVEMENT

CATEGORY	STATION TO	STATION	LOCATION	SPV.0180.20 SY	650.7000 LF	REMARKS
0010	177+11	- 177+75	SE RAMP	122	465	
0010	177+75	- 179+44	SE RAMP	604		
0010	179+44	- 181+33	SE RAMP	378		LT LANE
0010	181+33	- 181+95	SE RAMP	61		LT LANE
0010	179+44	- 181+20	SE RAMP	313		RT TURN LANE
0010	181+20	- 181+76	SE RAMP	188		RT TURN LANE
0010	178+00	- 180+53	SW RAMP	422	342	
0010	180+53	- 180+93	SW RAMP	85		
0010	180+93	- 181+42	SW RAMP	427		INCLUDES TURN LANE OFF STH 35 EB
0010	182+32	- 183+21	NE RAMP	168	318	
0010	183+21	- 185+50	NE RAMP	382		
0010	181+01	- 181+28	NW RAMP	53	534	RT TURN LANE
0010	181+28	- 183+05	NW RAMP	295		RT TURN LANE
0010	181+19	- 182+56	NW RAMP	274		
0010	182+56	- 183+06	NW RAMP	108		
0010	183+06	- 184+75	NW RAMP	553		
0010	184+75	- 186+35	NW RAMP	330		
0010	27+76	- 30+19	STH 35 EB	387	1295	WEST APPROACH OF WEST TERM RAB
0010	30+85	- 34+22	STH 35 EB	668		BETWEEN WEST TERM RAB AND STRUCTURE
0010	36+51	- 37+88	STH 35 EB	231		BETWEEN STRUCTURE AND EAST TERM RAB
0010	39+07	- 40+71	CTH E EB	264		EAST APPROACH OF EAST TERM RAB
0010	28+03	- 30+33	STH 35 WB	529	1256	WEST APPROACH OF WEST TERM RAB
0010	31+09	- 34+83	STH 35 WB	644		BETWEEN WEST TERM RAB AND STRUCTURE
0010	36+68	- 38+10	STH 35 WB	247		BETWEEN STRUCTURE AND EAST TERM RAB
0010	39+03	- 40+59	CTH E WB	228		EAST APPROACH OF EAST TERM RAB
0010	5+00	- 9+11	EAST TERM RAB	1175		OUTER
0010	5+00	- 9+11	WEST TERM RAB	1175		OUTER
			TOTAL 0010	14521	4210 *	

* QUANTITY ELSEWHERE IN PLAN

SPECIAL (40. CONCRETE PAVEMENT APPROACH SLAB SPECIAL)

CATEGORY	STATION TO	STATION	LOCATION	SPV.0180.40 SY
0010	34+09	- 34+30	STH 35 NB	87
0010	36+45	- 36+66	STH 35 NB	87
			TOTAL 0010	174

SPECIAL (30. CONCRETE PAVEMENT 10.5-INCH SPECIAL)
CONSTRUCTION STAKING CONCRETE PAVEMENT

CATEGORY	STATION TO	STATION	LOCATION	SPECIAL (30. CONCRETE PAVEMENT 10.5-INCH SPECIAL) SPV.0180.30 SY	CONSTRUCTION STAKING CONCRETE PAVEMENT 650.7000 LF
0010	230+00	- 301+00	STH 35/64 WB	20511	7100
			TOTAL 0010	20511	7100 *

* QUANTITY ELSEWHERE IN PLAN

N

NOTE: SEE TRAFFIC CONTROL STAGE 2 DETAILS FOR SIGNING, MARKING AND TRAFFIC CONTROL.

MATCH EXISTING STH 35/64 PAVEMENT EDGE.

MATCH STH 35/64 W.B. PAVEMENT EDGE, COMPLETED IN STAGE 2 NORTH.

SLOPE INTERCEPT STAGE 2 NORTH

STRUCTURE: 8A
233+25.24A 193.81LT
893.80

STRUCTURE: 8X
232+81.40A 58.13RT
890.18

EXISTING STH 35/64

FRONTAGE RD A

FRONTAGE RD C

STH 35/64 WB CENTERLINE

STH 35/64 WB

STH 35/64 EB

SETTLERS WAY

GUY

R/W

BP: 216+54.64

218+00.00 -48.04'

PC: 221+24.73

223+41.16 -37.86'

PT: 224+35.52

PC: 224+68.53

225+46.77 -63.41'

226+61.46 -92.16'

231+74.10 -148.18'

PT: 232+18.53

PC: 234+25.01

234+93.26 -207.00'

PT: 236+93.90

236+93.91 -217.00'

239+68.05 -202.00'

EP: 239+85.74

220 225 230 235 240A

230A 225A

16X 16A 18X 18A 19X 19A 8A 8X 7A 7X 6A 6X

PI STA = 222+80.39
Y = 377544.826
X = 505309.605
DELTA = 8°05'38"
D = 2°36'16"
T = 155.65'
L = 310.79'
R = 2200.00'
PC STA = 221+24.73
Y = 377545.610
X = 505153.955
PT STA = 224+35.52
Y = 377565.966
X = 505463.816
BK = S89°42'41.1"E
AH = N82°11'40.5"E
SE: 2%

PI STA = 235+59.63
Y = 377716.304
X = 506577.830
DELTA = 7°15'37"
D = 2°42'00"
T = 134.63'
L = 268.89'
R = 2122.00'
PC STA = 234+25.01
Y = 377698.458
X = 506444.392
PT STA = 236+93.90
Y = 377717.144
X = 506712.454
BK = N82°22'56.7"E
AH = N89°38'33.8"E
SE: 6%

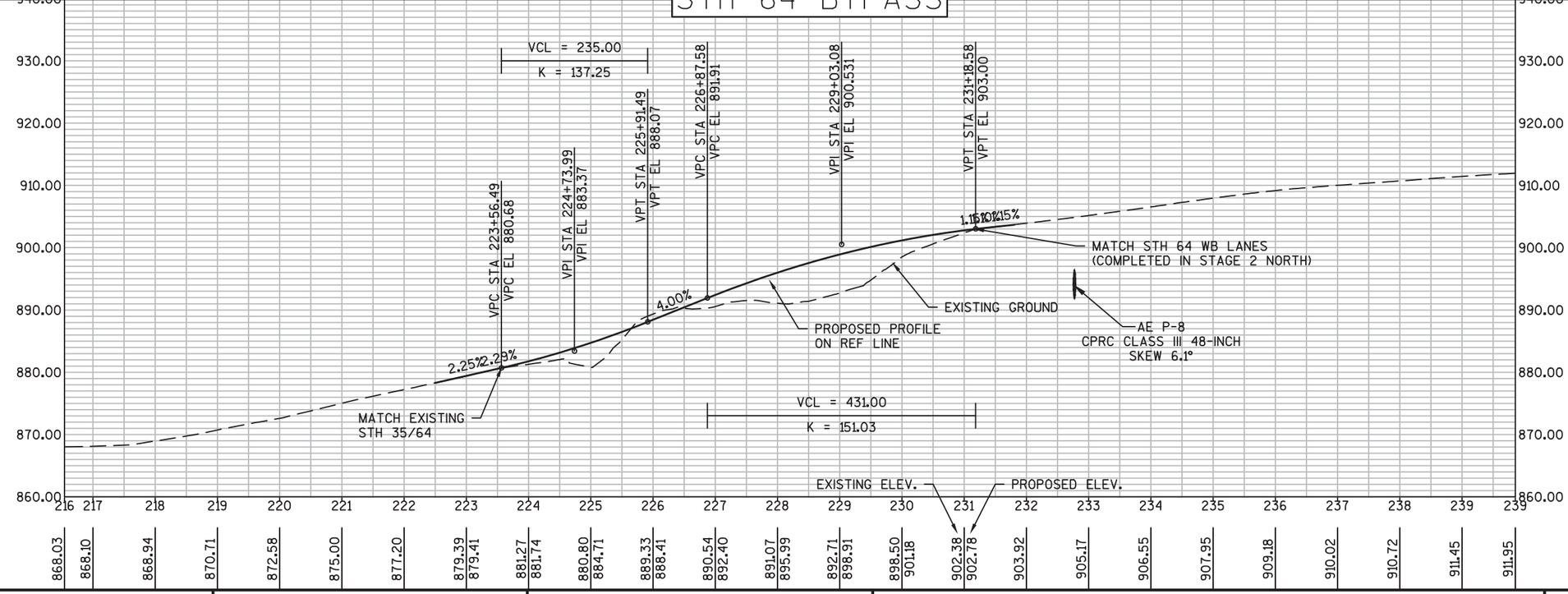
218+00.00 51.95'

224+56.49 69.32'

0 100 200 300 FEET
SCALE

5 5

STH 64 BYPASS



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: EXIST STH 64 TEMPORARY TO STH 64 W.B.	SHEET 427 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050105_PP_EXIST 64 TEMP BYPASS TO WB_72.DWG
LAYOUT NAME - 04-1
PLOT DATE : 7/30/2014 2:23 PM
PLOT BY : PETERSON, ANDREW W PLOT NAME :
PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44

STH 35 BYPASS

PI STA = 9+57.41
Y = 371482.390
X = 502650.373
DELTA = 12°28'00"
D = 3°49'11"
T = 163.83'
L = 326.38'
R = 1500.00'
PC STA = 7+93.58
Y = 371338.818
X = 502729.297
PT STA = 11+19.95
Y = 371639.614
X = 502604.304
BK = N28°47'53.8"W
AH = N16°19'53.9"W
SE: NC

1005
874.028
NEW CP
N:371065.399
E:502796.338

PI STA = 0+60.75
Y = 370696.575
X = 503082.348
DELTA = 4°29'13"
D = 3°49'11"
T = 58.76'
L = 117.47'
R = 1500.00'
PC STA = 0+01.99
Y = 370647.451
X = 503114.598
PT STA = 1+19.45
Y = 370748.071
X = 503054.040
BK = N33°17'06.8"W
AH = N28°47'53.8"W
SE: NC

PI STA = 15+69.64
Y = 372012.477
X = 502368.885
DELTA = 2°43'03"
D = 5°43'46"
T = 23.72'
L = 47.43'
R = 1000.00'
PC STA = 15+45.92
Y = 371995.750
X = 502385.703
PT STA = 15+93.35
Y = 372029.982
X = 502352.879
BK = N45°09'22.7"W
AH = N42°26'19.3"W
SE: NC

PI STA = 19+23.69
Y = 372273.775
X = 502129.964
DELTA = 30°26'32"
D = 13°38'31"
T = 114.28'
L = 223.15'
R = 420.00'
PC STA = 18+09.41
Y = 372189.437
X = 502207.079
PT STA = 20+32.57
Y = 372385.557
X = 502106.211
BK = N42°26'19.3"W
AH = N11°59'46.8"W
SE: NC

PI STA = 13+23.96
Y = 371835.395
X = 502546.936
DELTA = 28°49'29"
D = 11°27'33"
T = 128.49'
L = 251.54'
R = 500.00'
PC STA = 11+95.47
Y = 371712.087
X = 502583.068
PT STA = 14+47.01
Y = 371926.005
X = 502455.830
BK = N16°19'53.9"W
AH = N45°09'22.7"W
SE: NC

STH 35/MAIN ST. ROUNDABOUT

EXISTING STH 35

EXISTING STH 35

STH 35 W.B.

STH 35 E.B.

EBC: 0+00.99

PT: 1+19.45

PC: 7+93.58

PT: 11+19.95

PC: 11+95.47

PT: 14+47.01

PC: 15+93.35

PCC: 18+09.41

PCC: 20+32.57

EP: 23+65.19

3+61.10
51.78'

6+05.74
32.35'

8+38.22
43.03'

13+34.87
86.96'

18+75.59
50.30'

21+91.49
56.33'

23+65.19
56.60'

17+37.38
148.61'

17+61.03
170.12'

15+06.17
291.72'

10

5

20

0 100 200 300 FEET
SCALE

VCL = 156.09
K = 136.00

VCL = 171.43
K = 60.85

VCL = 200.00
K = 113.25

VCL = 200.00
K = 126.27

VCL = 200.00
K = 64.21

STA 3+32.90
EL 878.38

LOW POINT STA 6+91.48
LOW POINT EL 876.07

VPC STA 9+29.01
VPC EL 876.91
HIGH POINT STA 9+78.97
HIGH POINT EL 877.00
VPI STA 10+29.01
VPI EL 877.302

VPT STA 11+29.01
VPT EL 876.11
LOW POINT STA 12+13.80
LOW POINT EL 875.54

VPC STA 13+52.33
VPC EL 876.98
HIGH POINT STA 14+56.93
HIGH POINT EL 877.84

VPT STA 15+52.33
VPT EL 877.13

LOW POINT STA 18+07.05
LOW POINT EL 874.59

STA 19+29.57
EL 874.89

-0.75%
0.40%
-1.19%
1.63%
-1.49%
0.28%

MATCH STH 35
PROPOSED PROFILE ON REF LINE
EXISTING GROUND
MATCH STH 35

VPC STA 5+89.19
VPC EL 876.46
VPI STA 6+67.23
VPI EL 875.87
VPT STA 7+45.28
VPT EL 876.18
VPC STA 11+41.49
VPC EL 875.97
VPI STA 12+27.21
VPI EL 874.95
VPT STA 13+12.92
VPT EL 876.34
VPI STA 14+52.33
VPI EL 878.614
VPC STA 16+38.75
VPC EL 875.84
VPI STA 17+38.75
VPI EL 874.36
VPT STA 18+38.75
VPT EL 874.64

AE P-28D
SSPRC CLASS III 18-INCH
SKEW 67.8°

EXISTING
PROPOSED

920.00
910.00
900.00
890.00
880.00
870.00
860.00
850.00
845.00

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

880.24 879.96 879.46 878.72 876.68 877.88 874.79 877.13 874.86 876.38 874.78 876.08 874.56 876.40 874.55 876.79 874.64 876.99 874.93 876.42 874.12 875.55 874.47 876.15 876.18 877.58 875.48 877.69 874.73 876.42 874.21 875.10 872.87 874.60 874.63 874.81 874.96 874.49 874.37 874.09

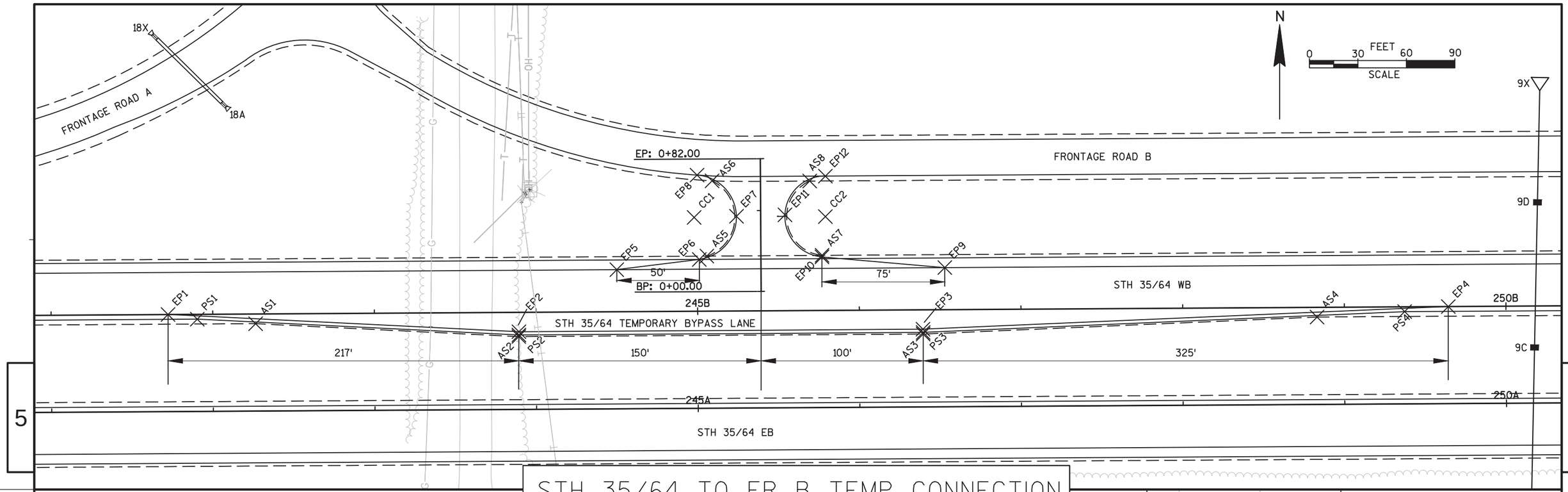
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 TEMPORARY BYPASS	SHEET 428 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050106_PP_STH 35 TEMP BYPASS_72.DWG
LAYOUT NAME - 05-1

PLOT DATE : 7/30/2014 3:23 PM PLOT BY : PETERSON, ANDREW W PLOT NAME :

PLOT SCALE : 1" = 200'_XREF

WISDOT/CADDS SHEET 44

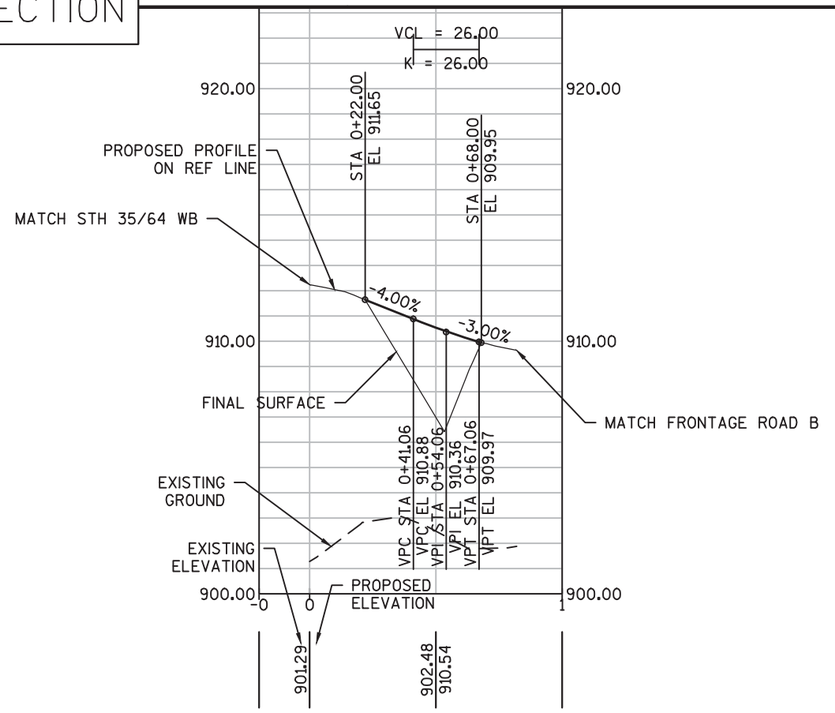


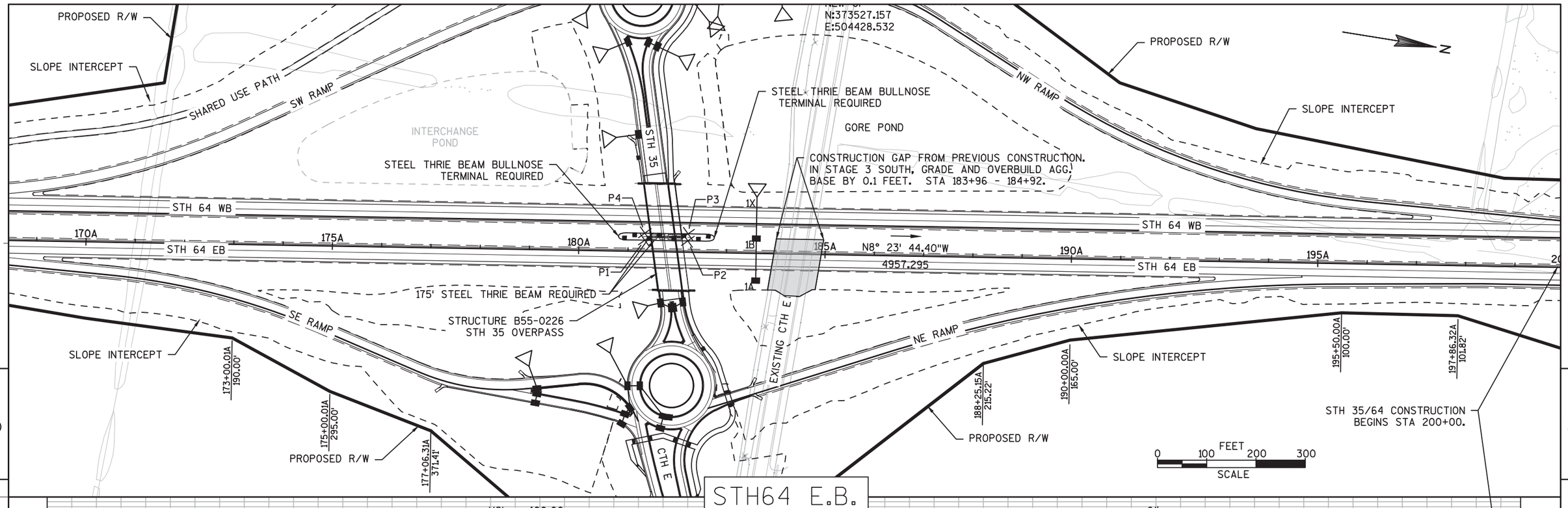
STH 35/64 TO FR B TEMP CONNECTION

POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
AS1	242+26.53 B	6.000 RT	377702.37	507230.68	
AS2	243+89.28 B	15.000 RT	377694.39	507393.48	
AS3	246+39.43 B	14.999 RT	377695.95	507643.64	
AS4	248+83.16 B	6.000 RT	377706.47	507887.31	
AS5	245+05.86 B	34.000 LT	377744.12	507509.76	
AS6	245+09.45 B	80.509 LT	377790.65	507513.06	
AS7	245+77.16 B	34.043 LT	377744.60	507581.06	
AS8	245+69.79 B	79.995 LT	377790.51	507573.40	
CC1	244+98.17 B	57.986 LT	377768.05	507501.92	26.19'
CC2	245+79.38 B	57.967 LT	377768.54	507583.14	25.03'
EP1	241+72.36 B	0.000	377708.04	507176.48	
EP2	243+89.36 B	12.000 RT	377697.39	507393.55	
EP3	246+39.36 B	12.000 RT	377698.95	507643.54	
EP4	249+64.36 B	0.000	377712.98	507968.46	
EP5	244+50.13 B	26.000 LT	377735.77	507454.08	
EP6	245+01.21 B	31.973 LT	377742.06	507505.12	

POINT	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
EP7	245+24.35 B	58.527 LT	377768.76	507528.10	
EP8	245+00.13 B	84.102 LT	377794.18	507503.72	
EP9	246+53.01 B	26.000 LT	377737.03	507656.96	
EP10	245+77.07 B	33.048 LT	377743.61	507580.98	
EP11	245+54.39 B	59.181 LT	377769.60	507558.13	
EP12	245+79.50 B	82.993 LT	377793.57	507583.09	
PS1	241+90.39 B	3.000 RT	377705.15	507194.52	
PS2	243+89.36 B	14.000 RT	377695.39	507393.56	
PS3	246+39.40 B	14.000 RT	377696.95	507643.59	
PS4	249+37.31 B	3.000 RT	377709.81	507941.44	

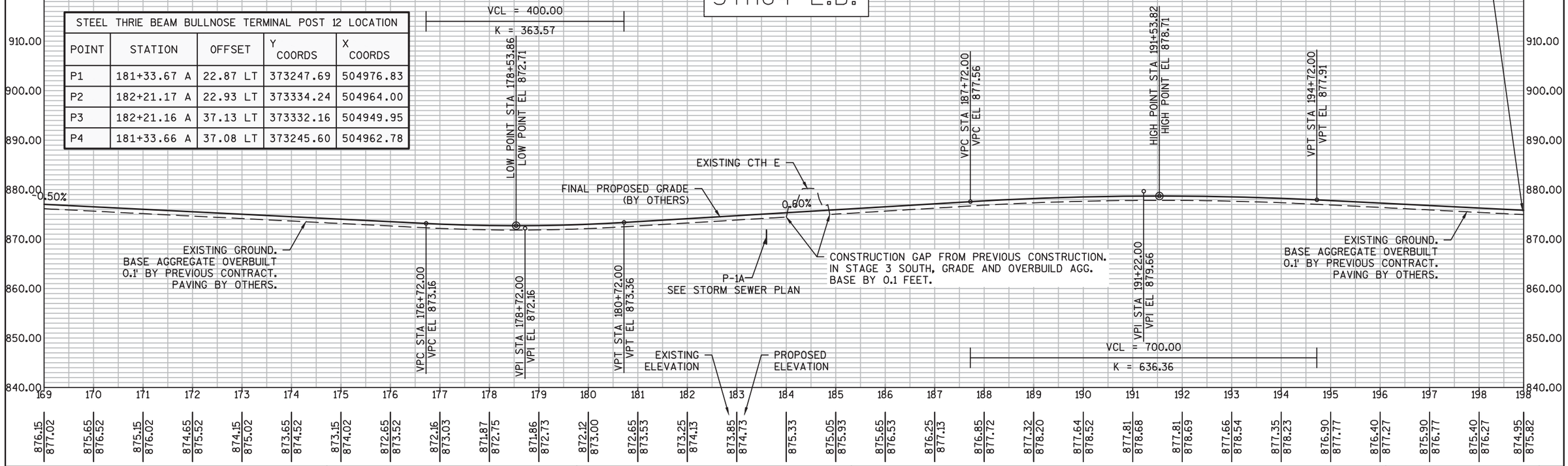
- STH 35/64 TO FRONTAGE ROAD B TEMPORARY CONNECTION HAS 15' LANES WITH 1' AGGREGATE SHOULDER
- STH 35/64 TEMPORARY BYPASS LANE HAS A 12' LANE, 2' PAVED SHOULDER, AND A 1' AGGREGATE SHOULDER





STH64 E.B.

STEEL THRIE BEAM BULLNOSE TERMINAL POST 12 LOCATION				
POINT	STATION	OFFSET	Y COORDS	X COORDS
P1	181+33.67 A	22.87 LT	373247.69	504976.83
P2	182+21.17 A	22.93 LT	373334.24	504964.00
P3	182+21.16 A	37.13 LT	373332.16	504949.95
P4	181+33.66 A	37.08 LT	373245.60	504962.78



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 64 EASTBOUND	SHEET 430 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050101_PP_64EB_72.DWG
81100272_PLANSHTS - 050101_PP_64EB_72 - 050102
PLOT DATE : 7/30/2014 10:09 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : ---------- PLOT SCALE : 1" = 200'-XREF
WISDOT/CADDS SHEET 44

†124
879.881
WISCON 83 (91)
N:373575.538
E:504309.173

157
532

NW RAMP

GORE POND

PROPOSED R/W

SLOPE INTERCEPT

STH 35/64 WB

STH 35/64 EB

200A

195A

190A

205A

210A

2A

2X

3A

3X

4A

4X

215A

GLEN POND

N8° 23' 44.40"W
4957.295

NE RAMP

PROPOSED R/W

195+50.00A
100.00'

197+86.32A
101.82'

SLOPE INTERCEPT

STH 35/64 STA 200+00
PROJECT START

188+25.15A
215.22'

190+00.00A
165.00'

PI STA = 225+60.51
Y = 377630.430
X = 504353.101
DELTA = 98°02'18"
D = 2°47'42"
T = 2359.85'
L = 3507.74'
R = 2050.00'
PC STA = 202+00.66
Y = 375295.869
X = 504697.659
PT STA = 237+08.40
Y = 377645.146
X = 506712.906
SE: 6%

STRUCTURE: 3X
211+71.27A 50.56R
861.21

212+28.55A
252.50'

214+92.09A
144.68'

STRUCTURE: 3A
211+48.09A 131.91L
862.12

N

0 100 FEET 200 300
SCALE

5

5

STH64 E.B.

910.00
900.00
890.00
880.00
870.00
860.00
850.00
840.00
835.00

VPC STA 187+72.00
VPC EL 877.56

VPI STA 191+22.00
VPI EL 879.66

VPT STA 194+72.00
VPT EL 877.91

VCL = 700.00
K = 636.36

HIGH POINT STA 191+53.82
HIGH POINT EL 878.71

PROPOSED PROFILE
ON REF LINE

EXISTING GROUND
GRADED TO 0.1' ABOVE
BASE AGG BY OTHERS
8110-02-71

-0.50%

P-2
SEE STORM SEWER PLAN

P-3
CPRC CLASS III 24-INCH
SKEW 7.4°

P-4
SEE STORM SEWER PLAN

VCL = 1000.00
K = 339.06

VPC STA 213+00.00
VPC EL 868.77

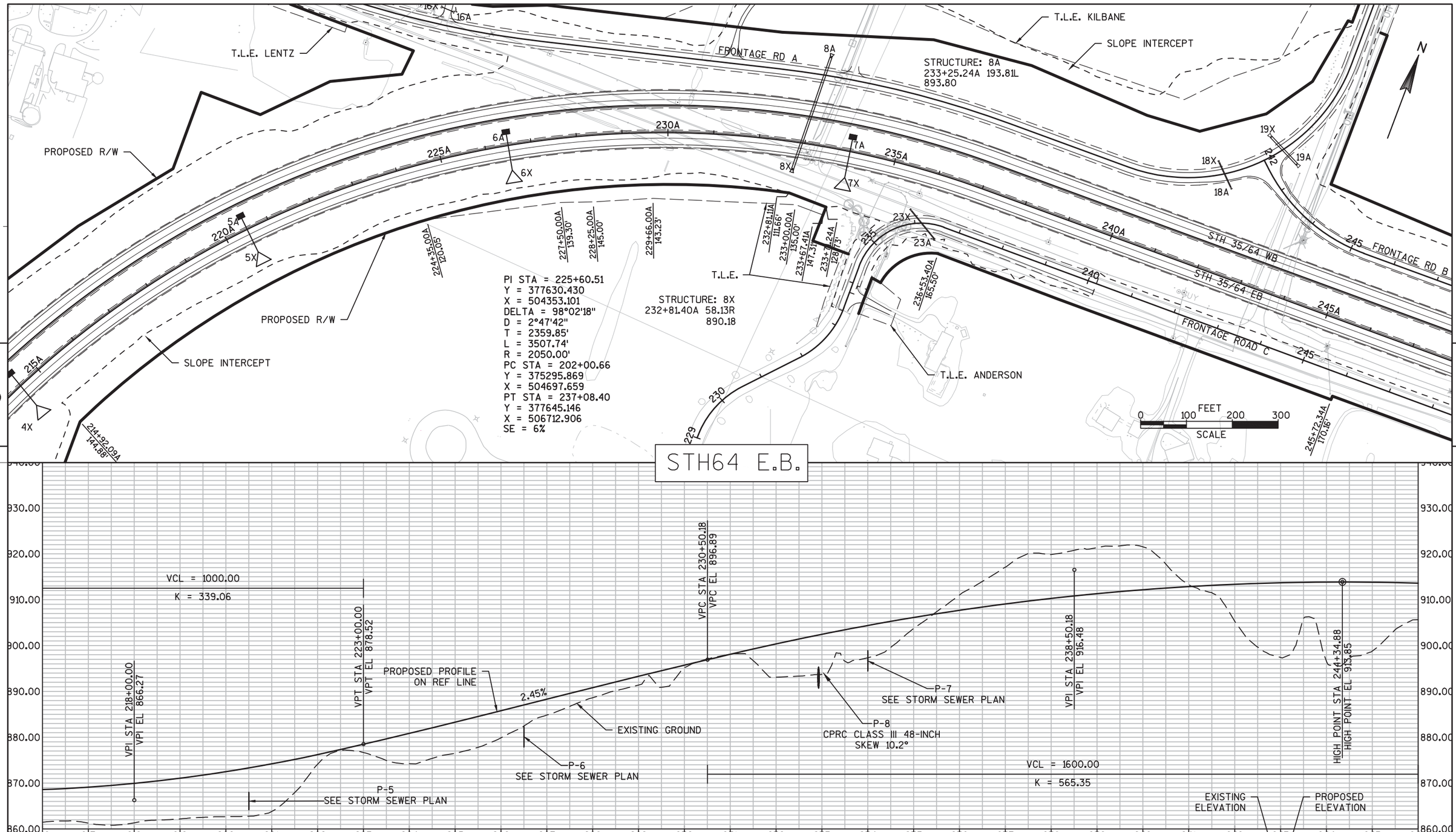
LOW POINT STA 214+69.53
LOW POINT EL 868.35

EXISTING
ELEVATION

PROPOSED
ELEVATION

186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216
875.65	876.25	876.85	877.32	877.64	877.81	877.81	877.66	877.35	876.90	876.40	875.90	875.40	874.90	874.20	873.20	873.06	872.58	872.57	872.25	871.37	870.46	868.47	868.73	867.14	869.24	867.44	864.97	861.84	860.76	861.49
876.53	877.13	877.72	878.20	878.52	878.68	878.69	878.54	878.23	877.77	877.27	876.77	876.27	875.77	875.27	874.77	874.27	873.77	873.27	872.77	872.27	871.77	871.27	870.77	870.27	869.77	869.27	868.77	868.42	868.36	868.60

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/64 EASTBOUND	SHEET 431	E



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/64 EASTBOUND	SHEET 432	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050101_PP_64EB_72.DWG PLOT DATE : 7/30/2014 10:10 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : ---------- PLOT SCALE : 1" = 200'_XREF

WISDOT/CADDS SHEET 44

PROPOSED R/W

FRONTAGE ROAD B

STH 35/64 WB

N89° 38' 33.74"E

2662.276

STH 35/64 EB

FRONTAGE ROAD C

PROPOSED R/W

SLOPE INTERCEPT

SLOPE INTERCEPT

T.L.E. SUTTER

T.L.E. LEVERTY

T.L.E. DALTON

9X 9D 9C 9B 9A

10X 10B 10A

11X 11A

20X 20A

21X 21A

12X 12A 15A

245+72.34A
170.16

262+70.47A
143.62'

268+51.51A
201.63'

270+23.34A
107.41'

PI STA = 273+58.94
Y = 377667.910
X = 510363.370
DELTA = 46°33'29"
D = 2°29'40"
T = 988.26'
L = 1866.54'
R = 2297.03'
PC STA = 263+70.68
Y = 377661.748
X = 509375.130
PT STA = 282+37.22
Y = 378389.681
X = 511038.429
SE: 6%

0 100 200 300 FEET
SCALE

STH64 E.B.

VCL = 462.50
K = 183.62

VPT STA 246+50.18
VPT EL 913.44

LOW POINT STA 263+47.94
LOW POINT EL 907.11

VPC STA 267+41.00
VPC EL 911.31

PROPOSED PROFILE
ON REF LINE

-0.38%

2.1%

EXISTING GROUND

P-9B
SEE STORM SEWER PLAN

P-10A
SEE STORM SEWER PLAN

VPC STA 262+78.02
VPC EL 907.24

VPI STA 265+09.27
VPI EL 906.36

VPT STA 267+40.52
VPT EL 911.30

VCL = 1600.00
K = 565.35

VCL = 2760.00
K = 599.08

EXISTING ELEVATION

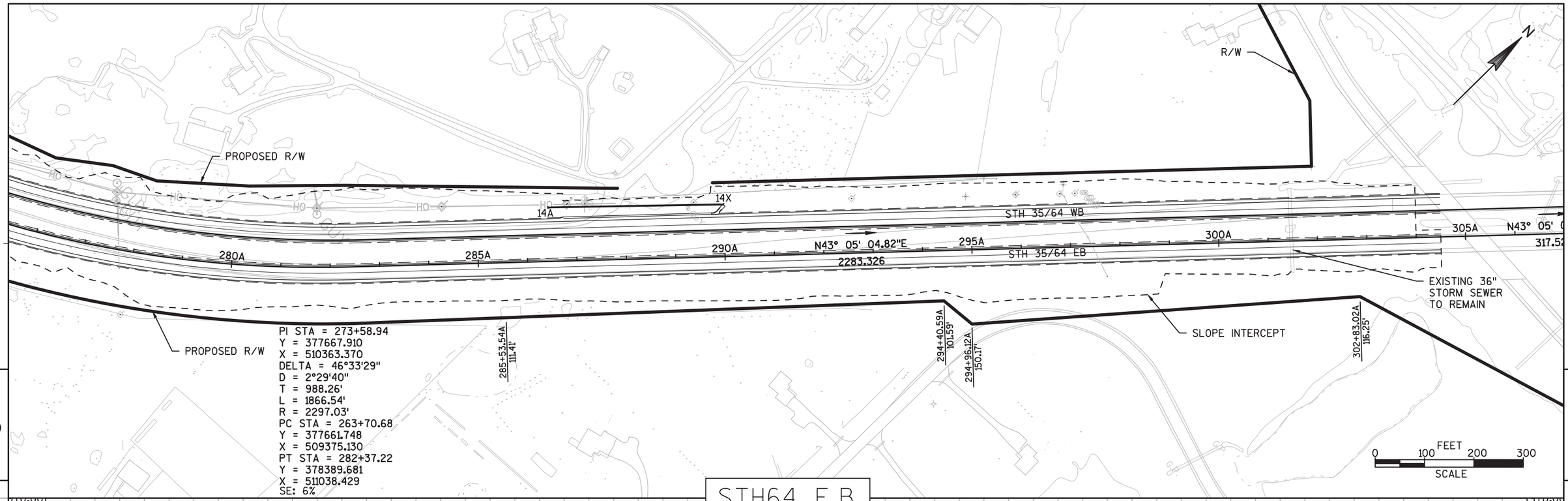
PROPOSED ELEVATION

246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276
905.62	904.96	906.28	903.27	900.79	902.13	898.27	898.54	901.42	899.49	903.56	902.57	903.35	902.61	903.68	904.06	904.14	901.25	903.37	907.20	905.50	905.80	910.22	912.86	915.33	918.02	920.70	923.03	925.67	928.49	931.03
913.61	913.25	912.87	912.49	912.11	911.73	911.34	910.96	910.58	910.20	909.82	909.44	909.06	908.68	908.30	907.92	907.54	907.17	907.18	907.74	908.84	910.48	912.55	914.50	916.29	917.91	919.37	920.66	921.78	922.73	923.52

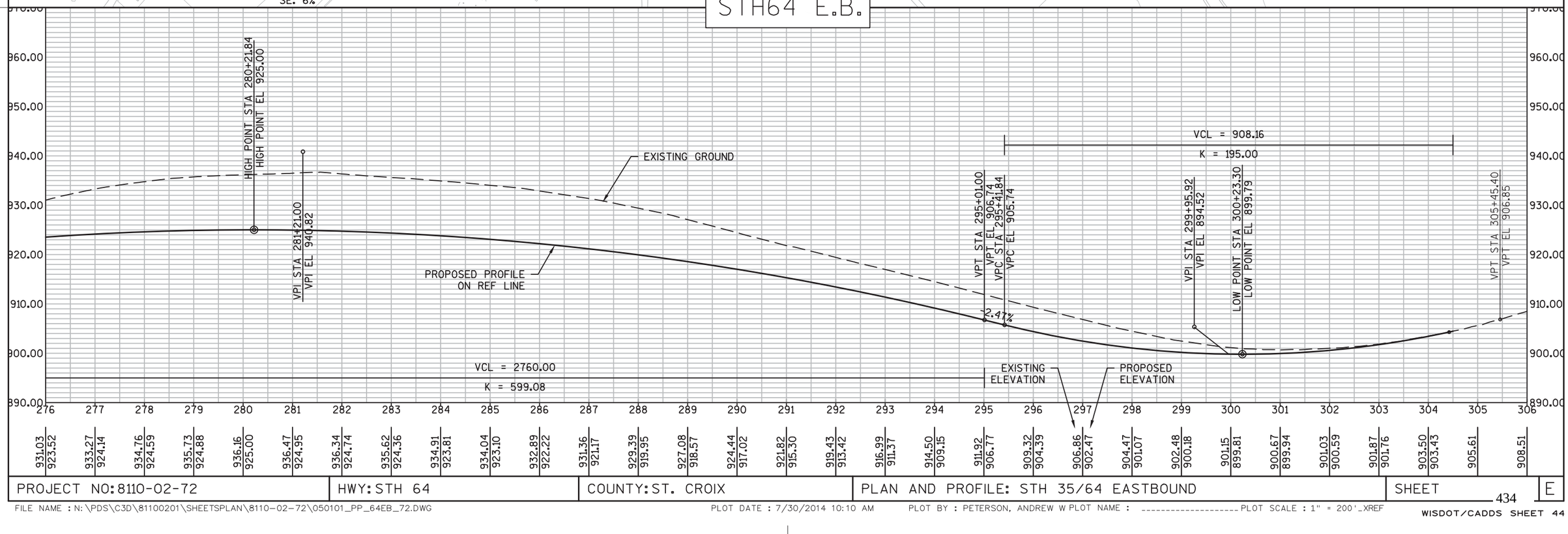
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/64 EASTBOUND	SHEET 433 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050101_PP_64EB_72.DWG PLOT DATE : 7/30/2014 10:10 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : ---------- PLOT SCALE : 1" = 200'_XREF

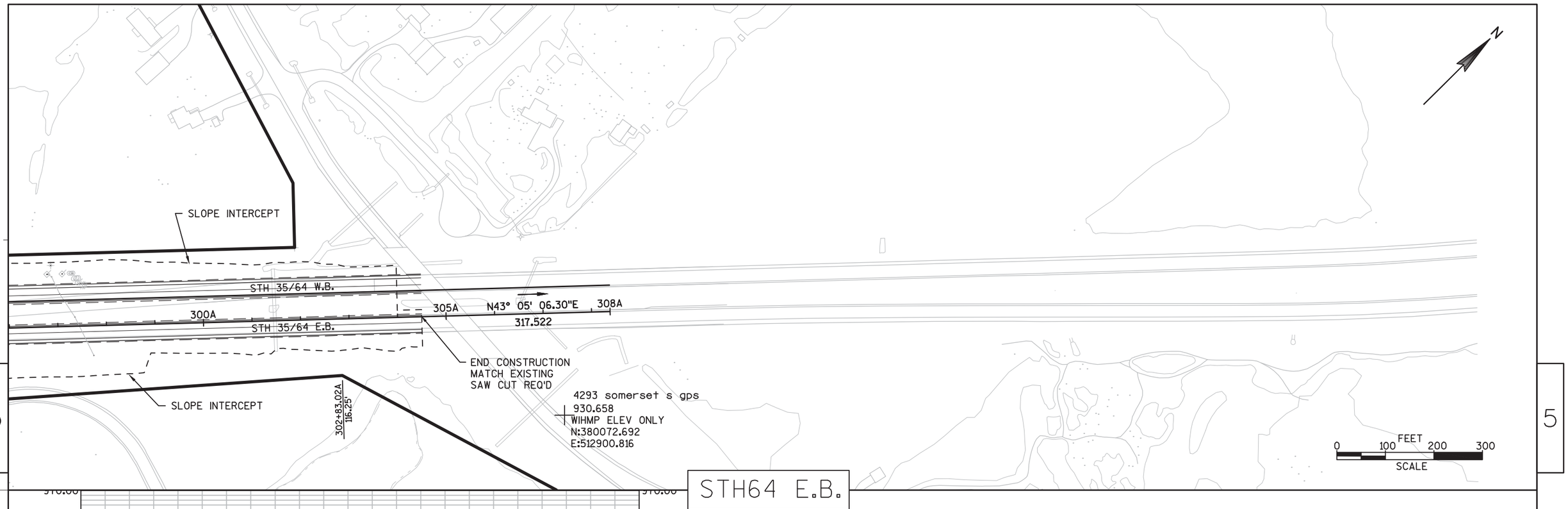
WISDOT/CADDS SHEET 44



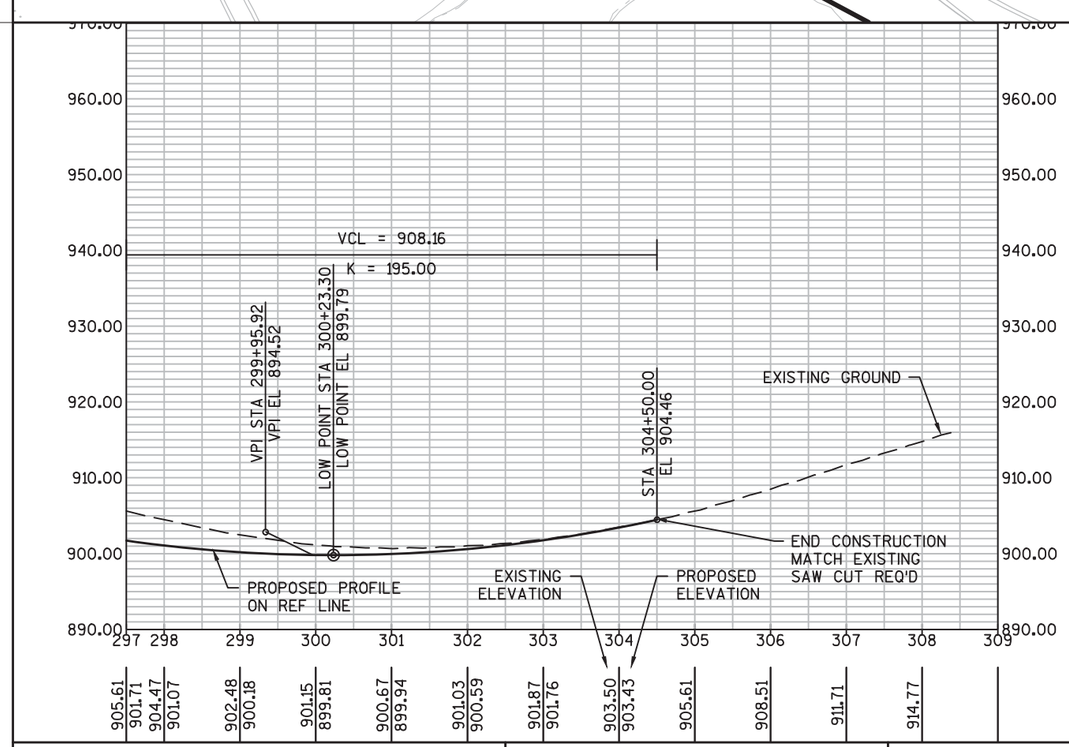
STH64 E.B.



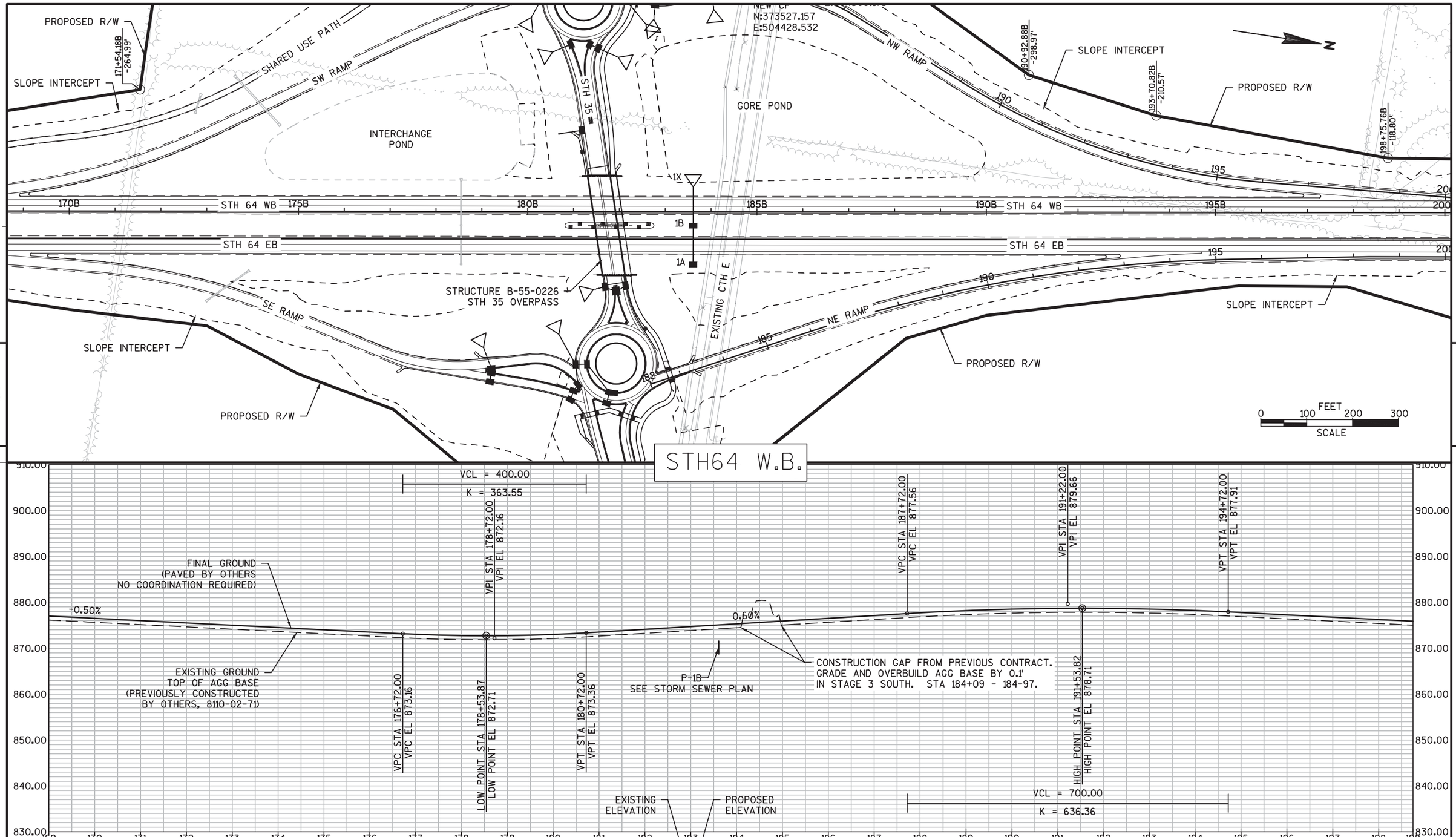
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/64 EASTBOUND	SHEET 434	E



STH64 E.B.

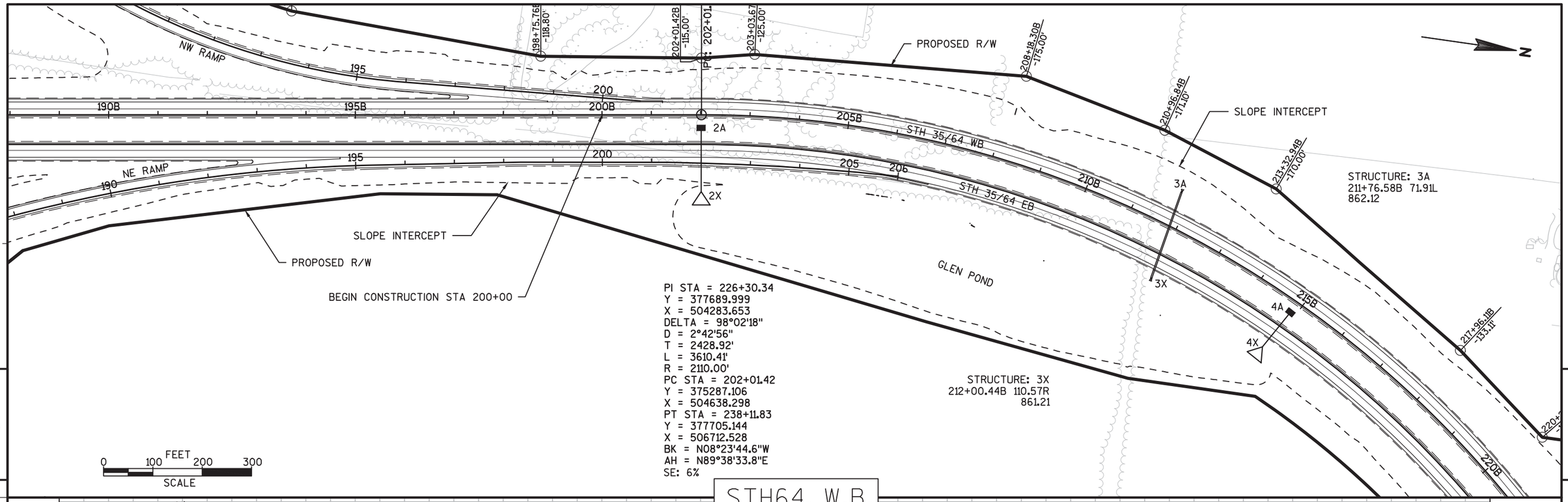


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/64 EASTBOUND	SHEET 435	E

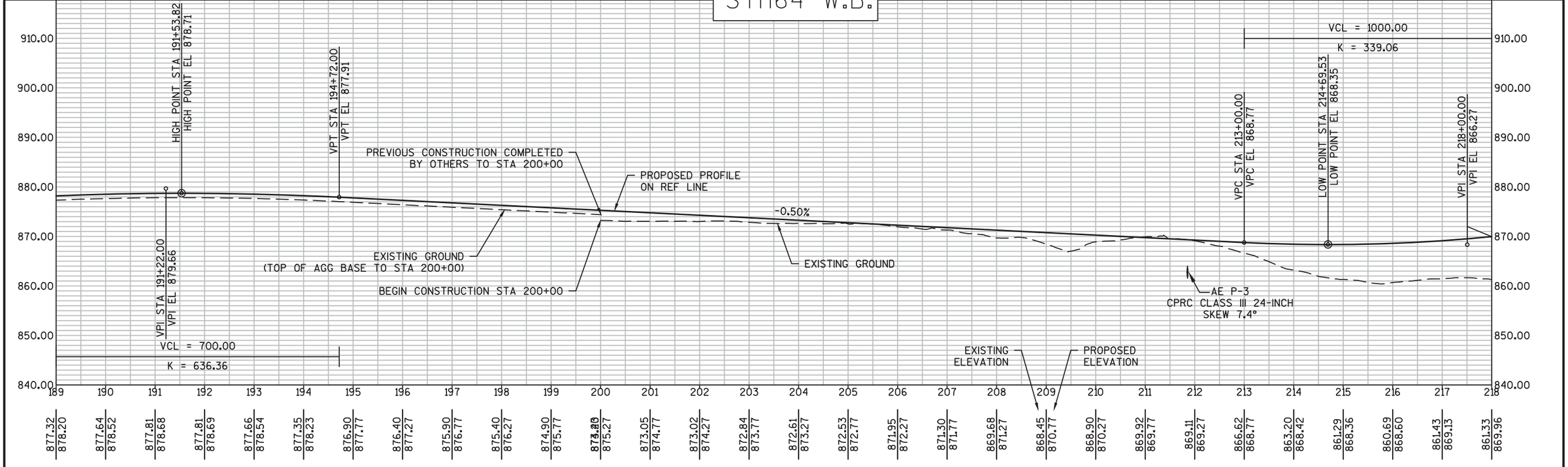


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/64 WESTBOUND	SHEET 436 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050102_PP_64WB_72.DWG
8110272_PLANSHTS - 050102_PP_64WB_72 - 050102
PLOT DATE : 7/30/2014 12:18 PM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44



STH64 W.B.



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/64 WESTBOUND	SHEET 437	E

PROPOSED R/W

220+23.61B -153.82

217+96.11B -153.11

221+42.65B -252.25

221+31.75B -155.15

223+87.94B -140.00

225+32.04B -140.00

220B

225B

230B

235B

240B

245B

5A

5X

6A

6X

7A

7X

8A

8X

SLOPE INTERCEPT

PROPOSED R/W

PI STA = 226+30.34
Y = 377689.999
X = 504283.653
DELTA = 98°02'18"
D = 2°42'56"
T = 2428.92'
L = 3610.41'
R = 2110.00'
PC STA = 202+01.42
Y = 375287.106
X = 504638.298
PT STA = 238+11.83
Y = 377705.144
X = 506712.528
BK = N08°23'44.6"W
AH = N89°38'33.8"E
SE: 6%

STRUCTURE: 8X
233+72.33B 118.13R
890.18

T.L.E.

STRUCTURE: 8A
234+17.46B 133.81L
893.80

233+[illegible] -174.[illegible]

236+12.33B -219.00

T.L.E. KILBANE

287+08.41B -229.00

SLOPE INTERCEPT

PT: 238+11.83

239+82.55B -224.00

241+01.99B -220.75

242+25.38B -306.51

244+10.58B -210.87

FRONTAGE ROAD A

FRONTAGE ROAD B

FRONTAGE ROAD C

STH 35/64 WB

STH 35/64 EB

18X

18A

19X

19A

23X

23A

STA BACK 238+11.83

STA AHEAD 237+08.40

T.L.E. ANDERSON

STRUCTURE: 18X
???
902.65

STRUCTURE: 18A
???
902.93

0 100 FEET 200 300
SCALE

N

5

5

STH64 W.B.

VCL = 1000.00
K = 339.06

VPI STA 218+00.00
VPI EL 866.27

VPT STA 223+00.00
VPT EL 878.52

VPC STA 229+72.00
VPC EL 894.98

PROPOSED PROFILE
ON REF LINE

2.45%

AE P-8
CPRC CLASS III 48-INCH
SKEW 10.2°

EXISTING GROUND

VPI STA 237+72.00
VPI EL 914.57

VCL = 1600.00
K = 583.14

HIGH POINT STA 242+96.84
HIGH POINT EL 912.47

VPT STA 244+68.57
VPT EL 912.71

EXISTING ELEVATION

PROPOSED ELEVATION

920.00 910.00 900.00 890.00 880.00 870.00 860.00 850.00

218 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 238 239 240 241 242 243 244 245 246

861.33 869.96 | 861.74 | 863.01 872.50 | 862.59 874.21 | 866.01 876.21 | 877.01 878.52 | 876.96 880.97 | 874.83 883.42 | 876.97 885.86 | 882.09 888.31 | 886.75 890.76 | 887.97 893.21 | 893.56 895.65 | 894.90 897.97 | 892.57 900.11 | 893.02 902.09 | 894.14 903.89 | 897.44 905.52 | 903.09 906.98 | 910.95 908.26 | 918.42 909.50 | 919.75 910.35 | 920.96 911.12 | 921.69 911.71 | 913.53 912.13 | 907.41 912.39 | 896.45 912.47 | 896.48 912.38 | 899.09 912.12 | 902.82 911.83

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 64 WESTBOUND	SHEET 438	E

PI STA = 273+41.39
Y = 377727.797
X = 510345.449
DELTA = 46°33'29"
D = 2°29'39"
T = 988.33'
L = 1866.68'
R = 2297.20'
PC STA = 263+53.06
Y = 377721.635
X = 509357.135
PT STA = 282+68.85
Y = 378449.622
X = 511020.557
BK = N89°38'33.8"E
AH = N43°05'04.7"E
SE: 6%

STRUCTURE: 11A
263+22.37B 18.89R
902.81

STRUCTURE: 11X
263+13.36B 44.46L
901.30

248+30.00B -190.01'
255+97.39B -175.00'
263+53.06 PC:
263+72.14B -174.93'
264+97.80B -179.05'
265+95.14B -218.51'
266+91.88B -153.08'
266+91.63B -96.20'
269+58.85B -87.49'
271+28.83B -121.59'
275+66.28B -94.38'
276+87.77B -105.28'
277+85.21B -91.14'

SLOPE INTERCEPT
PROPOSED R/W
FRONTAGE RD B
STH 35/64 WB
STH 35/64 EB
FRONTAGE RD C
PROPOSED R/W
SLOPE INTERCEPT
T.L.E. DALTON
T.L.E. SUTTER
T.L.E. LEVERTY

9X 9D 9C 9B 9A
10X 10B 10A
20X 20A
11X 11A
21X 21A
12X 12A
27.0B

250B 255B 260B 265B

N

FEET 0 100 200 300
SCALE

STH64 W.B.

VCL = 500.00
K = 205.52

LOW POINT STA 263+16.05
LOW POINT EL 906.86

VPC STA 267+58.50
VPC EL 911.62

VPC STA 262+55.52
VPC EL 906.95

VPI STA 265+05.52
VPI EL 906.22

VPT STA 267+55.52
VPT EL 911.56

VCL = 2725.00
K = 586.22

PROPOSED PROFILE ON REF LINE
-0.29%
2.14%

AE P-11
CPRCHE CLASS HE-III 24x38-INCH
SKEW 8.1°

P-9C
SEE STORM SEWER PLAN

P-10B
SEE STORM SEWER PLAN

P-12
SEE STORM SEWER PLAN

EXISTING GROUND

EXISTING ELEVATION
PROPOSED ELEVATION

940.00 930.00 920.00 910.00 900.00 890.00 880.00 870.00

246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275

902.82	904.30	901.00	902.01	903.18	900.21	899.84	899.41	904.90	902.95	903.63	902.27	904.17	903.63	904.29	904.87	905.99	902.65	904.95	906.58	904.44	905.45	900.49	898.94	905.13	917.27	917.83	919.39	922.34	925.91
911.83	911.53	911.24	910.94	910.65	910.35	910.06	909.77	909.47	909.18	908.88	908.59	908.29	908.00	907.70	907.41	907.12	906.87	907.03	907.69	908.82	910.45	912.50	914.48	916.29	917.93	919.40	920.70	921.83	922.79

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/64 WESTBOUND	SHEET 439 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050102_PP_64WB_72.DWG PLOT DATE : 7/30/2014 12:19 PM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1" = 200'_XREF

WISDOT/CADDS SHEET 44

PI STA = 273+41.39
Y = 377727.797
X = 510345.449
DELTA = 46°33'29"
D = 2°29'39"
T = 988.33'
L = 1866.68'
R = 2297.20'
PC STA = 263+53.06
Y = 377721.635
X = 509357.135
PT STA = 282+68.85
Y = 378449.622
X = 511020.557
BK = N89°38'33.8"E
AH = N43°05'04.7"E
SE: 6%

SLOPE INTERCEPT
PROPOSED R/W
PROPOSED R/W
SLOPE INTERCEPT
STA BACK = 282+18.31
STA AHEAD = 282+67.42
PI: 282+68.85
275+66.28B -94.38'
276+87.77B -105.28'
277+85.21B -91.14'
279+79.82B -103.16'
281+86.57B -110.78'
287+86.08B -89.88'
289+78.21B -96.02'
301+92.06B -95.93'
301+92.45B -228.51'
12X
12A
14A
14X
275B
280B
285B
290B
295B
300B
305B
STH 35/64 WB
STH 35/64 EB
N
0 100 200 300 FEET
SCALE

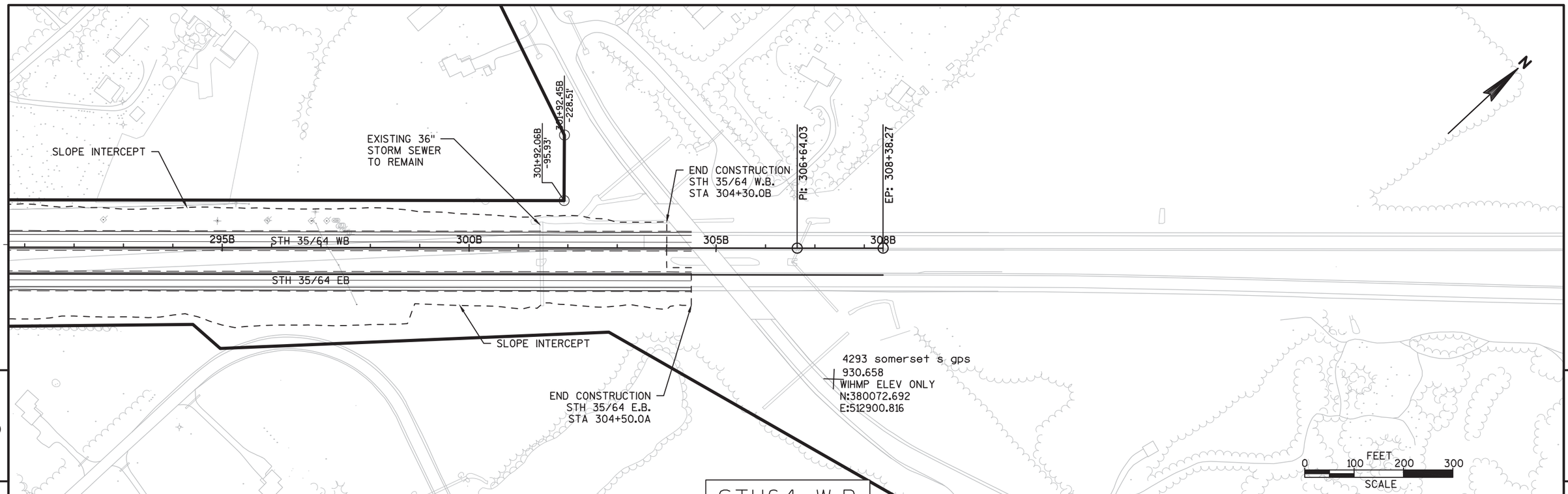
STH64 W.B.

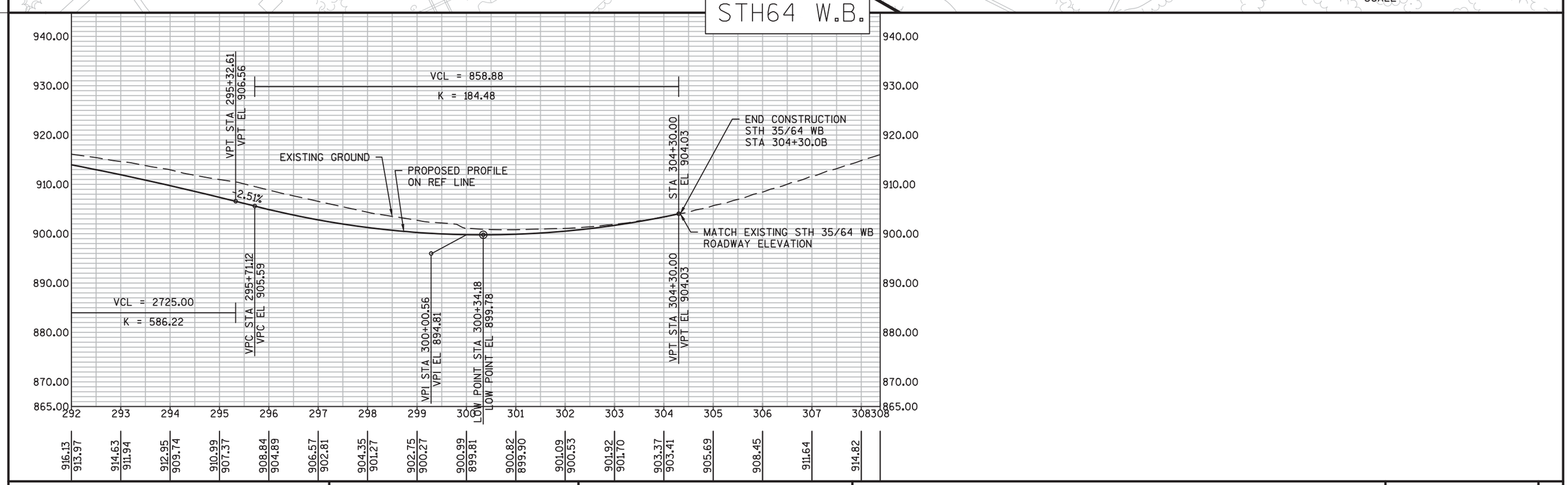
950.00
940.00
930.00
920.00
910.00
900.00
890.00
880.00
875.00

PROPOSED PROFILE ON REF LINE
EXISTING GROUND
HIGH POINT STA 280+12.05
HIGH POINT EL 925.03
VPI STA 281+21.00
VPI EL 940.76
VCL = 2725.00
K = 586.22
VPC STA 295+71.12
VPC EL 905.59
VPT STA 295+32.61
VPT EL 906.56
VCL = 858.88
K = 184.48
VPI STA 300+00.56
VPI EL 894.81
LOW POINT STA 300+34.18
LOW POINT EL 899.78
EXISTING ELEVATION
PROPOSED ELEVATION

275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304
925.91	929.49	932.00	934.04	935.58	937.00	937.55	937.63	937.63	937.63	937.13	936.37	933.92	933.07	931.69	927.22	923.01	918.73	916.13	914.63	912.95	910.99	908.84	906.57	904.35	902.75	900.99	900.82	901.09	901.92	903.37
922.79	923.58	924.20	924.64	924.92	925.03	924.96	924.74	924.66	924.58	924.54	924.05	923.38	922.55	921.55	920.37	919.03	917.51	915.82	913.97	911.94	909.74	907.37	904.89	902.81	901.27	900.27	899.81	899.90	900.53	901.70	903.41

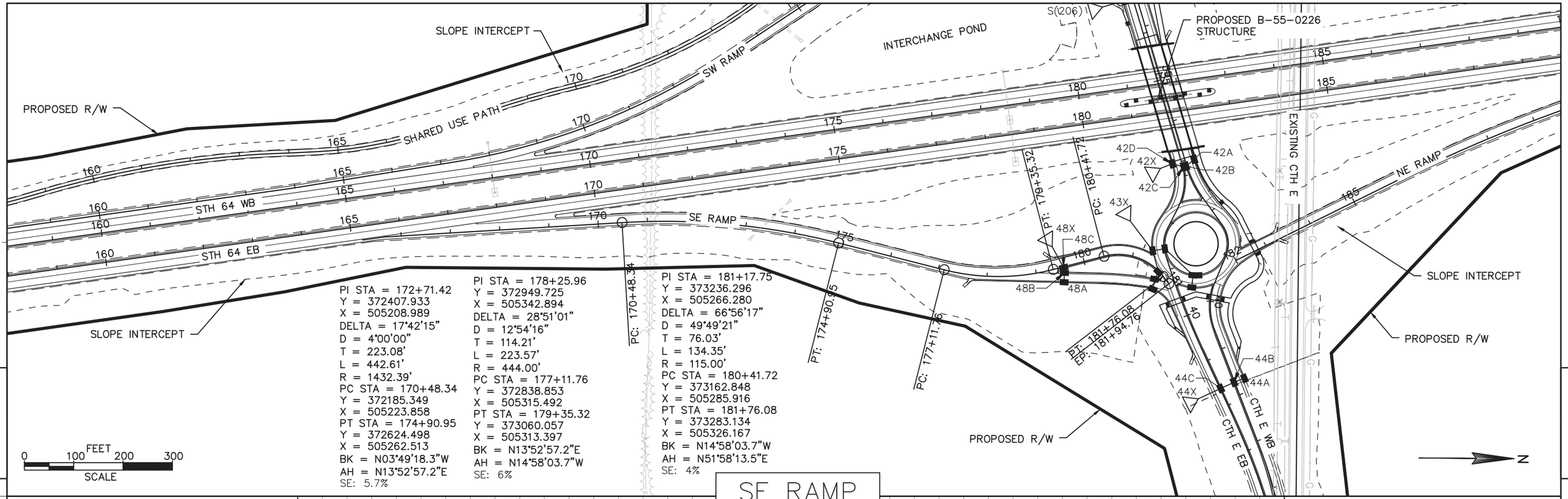
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 64 WESTBOUND	SHEET 440	E

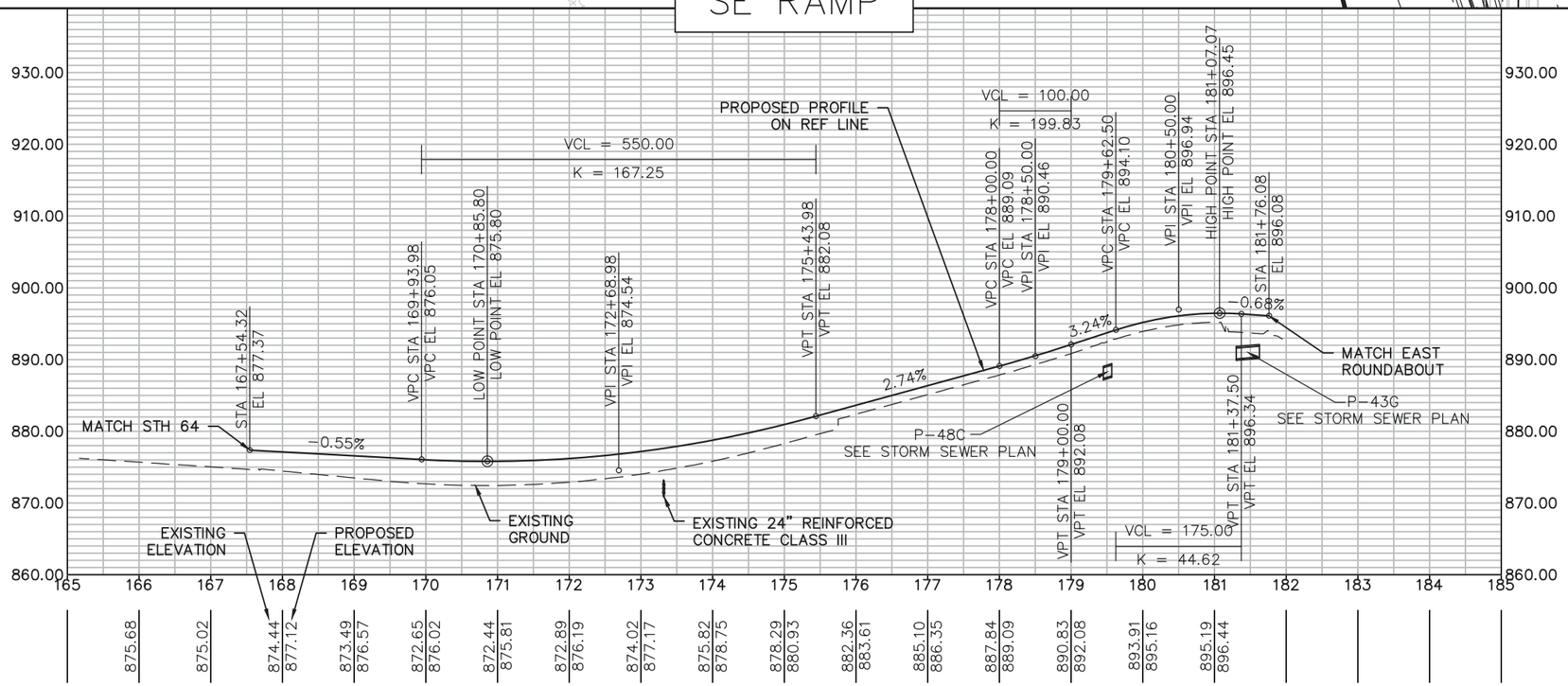




PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/64 WESTBOUND	SHEET	E

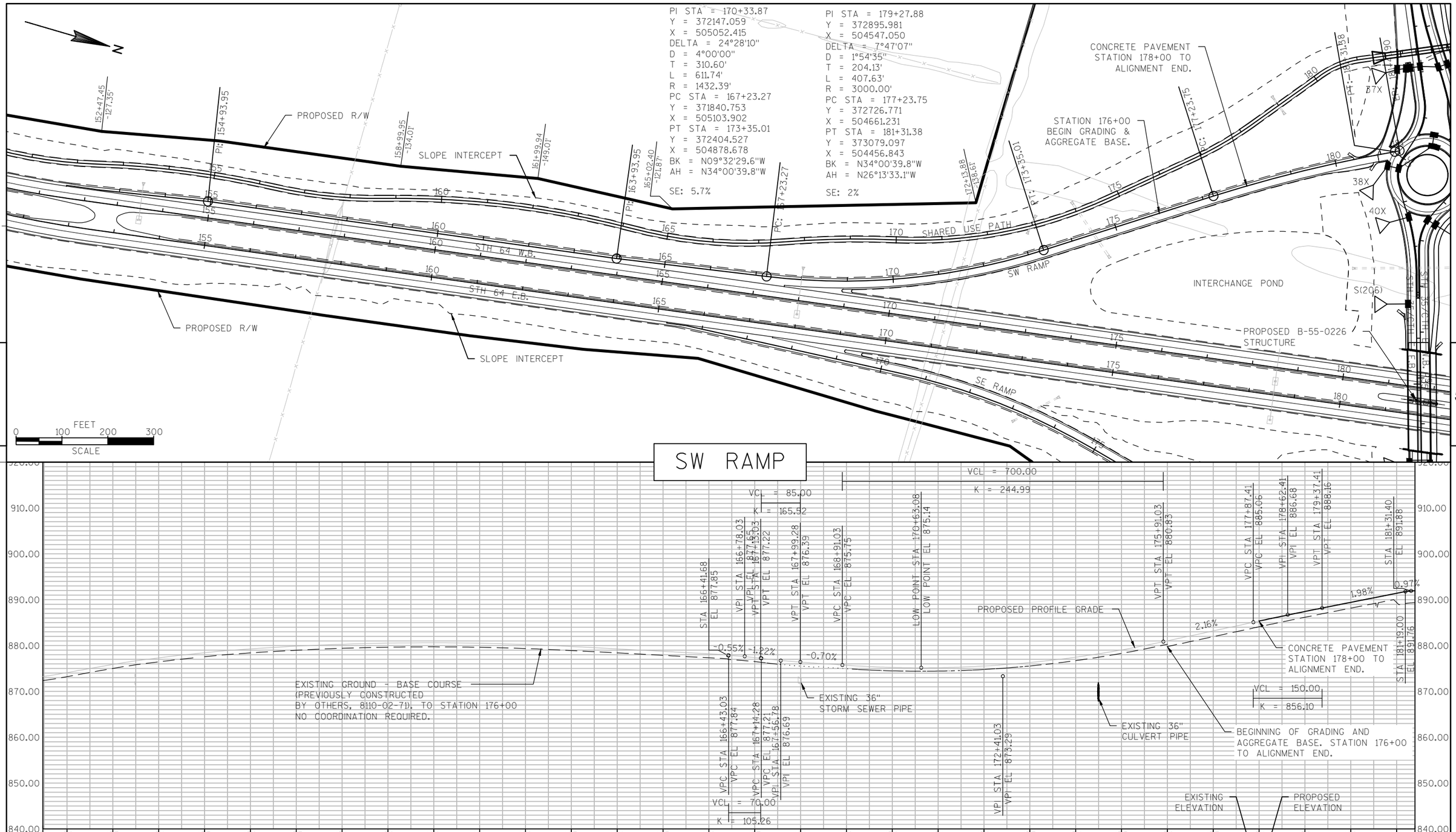
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050102_PP_64WB_72.DWG PLOT DATE : 7/30/2014 12:19 PM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44





SE RAMP

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: SOUTHEAST RAMP	SHEET 442 LE



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 64 SOUTHWEST RAMP	SHEET 443 E

STH 35 NB
STH 35 SB
S(206)
EXISTING CTH E
GORE POND
SLOPE INTERCEPT
PROPOSED R/W
STH 35/NW RAMP
STH 64 WB
STH 64 EB
STH 35/NE RAMP
SE RAMP
STRUCTURE B-55-0226
STH 35 OVERPASS
1X
1B
1A
42X
43X
44X
2X
2A
SLOPE INTERCEPT
PROPOSED R/W
CTH E EB
CTH E WB
GLEN POND
N
0 100 FEET 200 300
SCALE

PC: 186+05.71
PI STA = 190+73.95
Y = 374181.879
X = 504914.019
DELTA = 17°10'44"
D = 1°50'54"
T = 468.24'
L = 929.46'
R = 3100.00'
PC STA = 186+05.71
Y = 373763.652
X = 505124.587
PT STA = 195+35.17
Y = 374643.641
X = 504836.370
BK = N26°43'27.1"W
AH = N09°32'43.4"W
SE: 2%

PT: 195+35.17
PI STA = 204+00.11
Y = 375499.319
X = 504711.238
DELTA = 4°35'49"
D = 1°08'57"
T = 200.11'
L = 400.00'
R = 4985.49'
PC STA = 202+00.00
Y = 375300.650
X = 504735.187
PT STA = 206+00.00
Y = 375699.269
X = 504703.289
BK = N06°52'24.9"W
AH = N02°16'35.7"W
SE: 2%

PI: 198+33.91
PI: 201+34.97
PC: 202+00.00
PT: 206+00.00
BP: 182+32.23

NE RAMP

VPC STA 182+45.00
VPC EL 896.67
VPI STA 183+20.00
VPI EL 896.22
VPT STA 183+95.00
VPT EL 893.52
VCL = 400.00
K = 273.62
VCL = 200.00
K = 122.25
-0.60%
-0.60%
MATCH EAST ROUNDABOUT
STA 182+32.23
EL 896.75
VPC STA 184+00.00
VPC EL 893.34
VPI STA 185+00.00
VPI EL 889.74
VPT STA 186+00.00
VPT EL 887.78
-1.96%
PROPOSED PROFILE ON REF LINE
VPC STA 188+00.50
VPC EL 883.84
VPI STA 190+00.50
VPI EL 879.91
VPT STA 192+00.50
VPT EL 878.91
-0.50%
STA 194+75.67
EL 877.52
MATCH STH 35/64
EXISTING GROUND (PREVIOUSLY CONSTRUCTED BY OTHERS, 8110-02-71)
P-2
SEE STORM SEWER PLAN
VCL = 150.00
K = 50.06
EXISTING ELEVATION
PROPOSED ELEVATION

920.00 910.00 900.00 890.00 880.00 870.00 860.00 850.00 848.00

180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208

888.46	896.04	876.70	893.34	888.90	890.15	886.53	887.78	884.56	885.81	882.60	883.85	880.81	882.06	879.40	880.65	878.34	879.59	877.66	878.91	877.16	878.41	876.65	877.90	874.68	874.23	873.77	873.31	872.82	872.14	872.56	872.71	873.35	873.01	872.75

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/NW RAMP	SHEET 444 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050112_PP_NERAMP_72.DWG PLOT DATE : 7/30/2014 6:12 PM PLOT BY : PETERSON, ANDREW W PLOT NAME : _____PLOT SCALE : 1" = 200'_XREF

WISDOT/CADDS SHEET 44

PI STA = 181+52.52
Y = 373276.040
X = 504472.374
DELTA = 65°24'09"
D = 49°49'21"
T = 73.83'
L = 131.27'
R = 115.00'
PC STA = 180+78.68
Y = 373226.111
X = 504417.983
PT STA = 182+09.96
Y = 373346.277
X = 504449.617
BK = N47°26'58.9"E
AH = N17°57'10.2"W
SE: 2.2%

PI STA = 184+78.48
Y = 373601.725
X = 504366.849
DELTA = 41°22'09"
D = 12°37'13"
T = 171.41'
L = 327.80'
R = 454.00'
PC STA = 183+07.06
Y = 373438.659
X = 504419.684
PT STA = 186+34.87
Y = 373759.021
X = 504434.970
BK = N17°57'10.2"W
AH = N23°24'58.9"E
SE: 5.8%

PI STA = 192+61.25
Y = 374333.821
X = 504683.903
DELTA = 27°14'17"
D = 4°00'00"
T = 347.04'
L = 680.95'
R = 1432.39'
PC STA = 189+14.22
Y = 374015.366
X = 504545.987
PT STA = 195+95.17
Y = 374680.085
X = 504660.772
BK = N23°24'58.9"E
AH = N03°49'18.4"W
SE: 5.2%

STH 35 NB
STH 35 SB
EXISTING CTH E
t124
879.881
WISCON 83 (91)
N: 373575.538
E: 504309.173
184+74.48
–170.46'
186+34.87
PC: 189+14.22
190+25.08
–86.38'
193+37.57
–104.21'
198+68.24
–74.42'
PT: 195+95.17
BP: 180+62.64
PC: 180+78.68
1004
878.348
NEW CP
N: 373527.157
E: 504428.532
PC: 183+07.06
PT: 182+09.96
SLOPE INTERCEPT
NW RAMP
SHARED USE PATH
SW RAMP
INTERCHANGE POND
GORE
POND
PROPOSED
B-55-0226
STRUCTURE
STH 35 CTH E
STH 64 WB
STH 64 EB
NE RAMP
SLOPE INTERCEPT
PROPOSED R/W
37X
38X
39X
40X
41X
49X
50X
53X
1X
1B
2A
2X
6.1
6.2
N
0 100 FEET 200 300
SCALE

NW RAMP

STA 180+77.09
EL 891.50
VPC STA 180+93.00
VPC EL 891.61
VPT STA 181+33.00
VPT EL 891.60
VPI STA 181+13.00
VPI EL 891.750
HIGH POINT STA 181+12.62
HIGH POINT EL 891.68
VPC STA 183+61.00
VPC EL 889.95
VPI STA 185+11.00
VPI EL 888.860
VPT STA 186+61.00
VPT EL 887.09
VPC STA 193+60.00
VPC EL 878.83
VPI STA 194+80.00
VPI EL 877.41
VPT STA 196+00.00
VPT EL 876.83
STA 198+89.16
EL 875.44
P-39C
SEE STORM
SEWER PLAN
P-50C
SEE STORM
SEWER PLAN
P-49A
SEE STORM
SEWER PLAN
0.70%
–0.73%
–1.18%
–0.48%
PROPOSED PROFILE
ON REF LINE
EXISTING GROUND
EXISTING CTH E
VCL = 300.00
K = 658.62
VCL = 40.00
K = 28.07
VCL = 240.00
K = 342.42
EXISTING
ELEVATION
PROPOSED
ELEVATION

889.07	889.87	889.14	878.03	887.54
891.65	891.12	890.39	889.65	888.79
886.53	885.38	884.20	883.01	881.83
887.78	886.63	885.45	884.26	883.08
880.65	879.47	878.29	877.13	874.87
881.90	880.72	879.54	878.38	877.46
874.23	873.73	873.22	872.22	872.67
876.83	876.35	875.87		

PROJECT NO: 8110-02-72 | HWY: STH 64 | COUNTY: ST. CROIX | PLAN AND PROFILE: STH 35/NW RAMP | SHEET 445 E

STRUCTURE: 16A
224+64.53T 32.92L
880.68

STRUCTURE: 16X
224+40.55T 37.25L
879.82

PI STA = 223+99.03
Y = 377544.229
X = 505428.248
DELTA = 14°12'50"
D = 2°36'16"
T = 274.30'
L = 545.78'
R = 2200.00'
PC STA = 221+24.73
Y = 377545.610
X = 505153.955
PT STA = 226+70.51
Y = 377610.241
X = 505694.483
BK = S89°42'41.1"E
AH = N76°04'28.6"E
SE: 5.2%

STRUCTURE: 8A
232+96.45T 39.81L
893.80

STRUCTURE: 8X
232+49.32T 212.13R
890.18

STRUCTURE: 18X
241+89.63T 24.86L
902.93

STRUCTURE: 18A
242+02.09T 29.72R
902.65

PI STA = 234+48.66
Y = 377797.508
X = 506449.759
DELTA = 13°34'05"
D = 2°35'59"
T = 262.19'
L = 521.93'
R = 2204.00'
PC STA = 231+86.47
Y = 377734.410
X = 506195.275
PT STA = 237+08.39
Y = 377799.143
X = 506711.943
BK = N76°04'28.6"E
AH = N89°38'33.8"E
SE: 5.2%

BP: 216+54.64T
215T
218+00.00T -48.04'
PC: 221+24.73T
220T
223+41.16T -37.86'
T.L.E. SINGER
225+49.99T -60.50'
226+70.51T -80.00'
PT: 226+70.51T
PROPOSED R/W
231+86.47T -80.00'
PC: 231+86.47T
T.L.E. KILBANE
235+00.00T -125.00'
SLOPE INTERCEPT
231+08.40T 135.00'
PT 237+08.39T
PC: 239+82.54T
239+82.54T -124.00'
241+50.00T -100.00'
243+50.00T -85.01'
PT: 245+77.00T
245+00.00T -60.00'
248+74.99T -30.52'
246+63.64T -30.52'
246+63.64T -40.00'
246+63.65T 51.10'
EP: 250+70.66T
250T
245T
218+00.00T 51.95'
T.L.E. LENTZ
PROPOSED R/W
224+00.00T 69.32'
SLOPE INTERCEPT
16X
16A
225T
FRONTAGE RD A
230T
8A
235T
STH 35/64 WB
STH 35/64 EB
230
225
6A
6X
8X
7A
7X
23X
240T
19X
19A
18X
18A
242
FRONTAGE RD B
PROPOSED R/W
SLOPE INTERCEPT
243+69.99T 122.44'
245
240
0 100 200 300 FEET
SCALE

5

5

FRONTAGE RD A

940.00 930.00 920.00 910.00 900.00 890.00 880.00 870.00 865.00

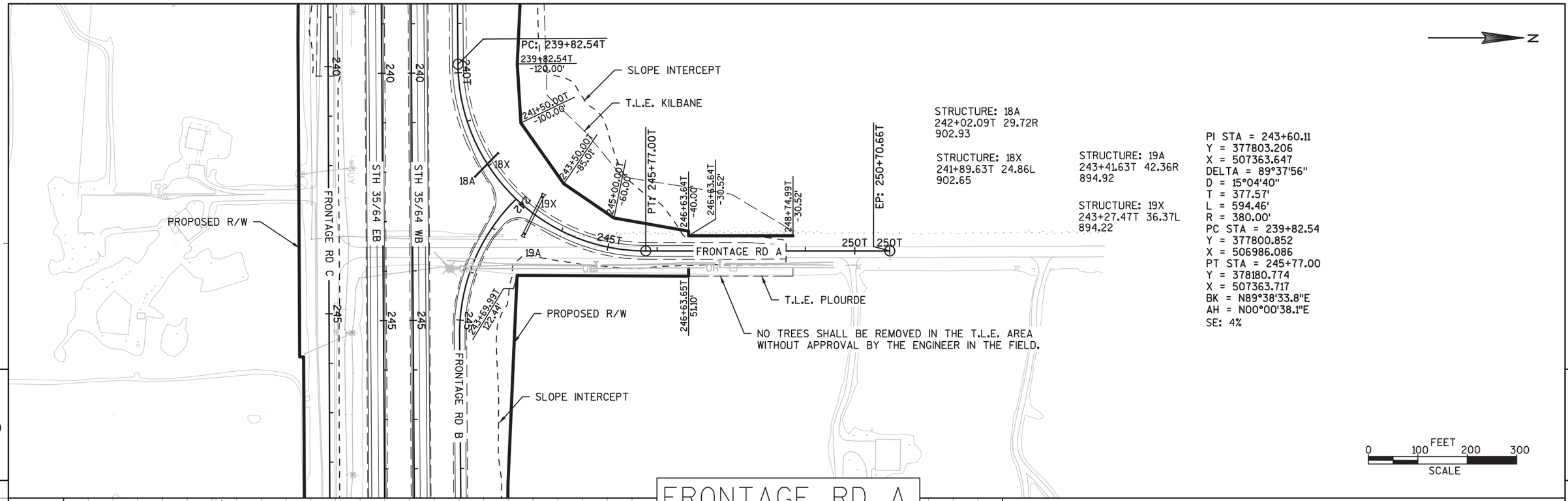
VPC STA 234+32.50
VPC EL 907.22
VPI STA 237+20.00
VPI EL 914.03
VPT STA 240+07.50
VPT EL 910.00
VPC STA 242+75.00
VPC EL 906.25
VCL = 450.00
K = 132.86
PROPOSED PROFILE ON REF LINE
EXISTING GROUND
2.37%
-1.40%
AE P-8
CPRC CLASS III 48-INCH
SKEW 10.2°
AE P-18
CPRC CLASS III 18-INCH
SKEW 12.9°
AE P-19
CPRC CLASS III 48-INCH
SKEW 10.2°
HIGH POINT STA 237+93.73
HIGH POINT EL 911.50
LOW POINT STA 244+61.17
LOW POINT EL 904.95
VPI STA 245+00.00
VPI EL 903.10
STA 218+47.45
EL 869.69
MATCH EXISTING STH 35/64
VCL = 575.00
K = 152.55
EXISTING ELEVATION
PROPOSED ELEVATION

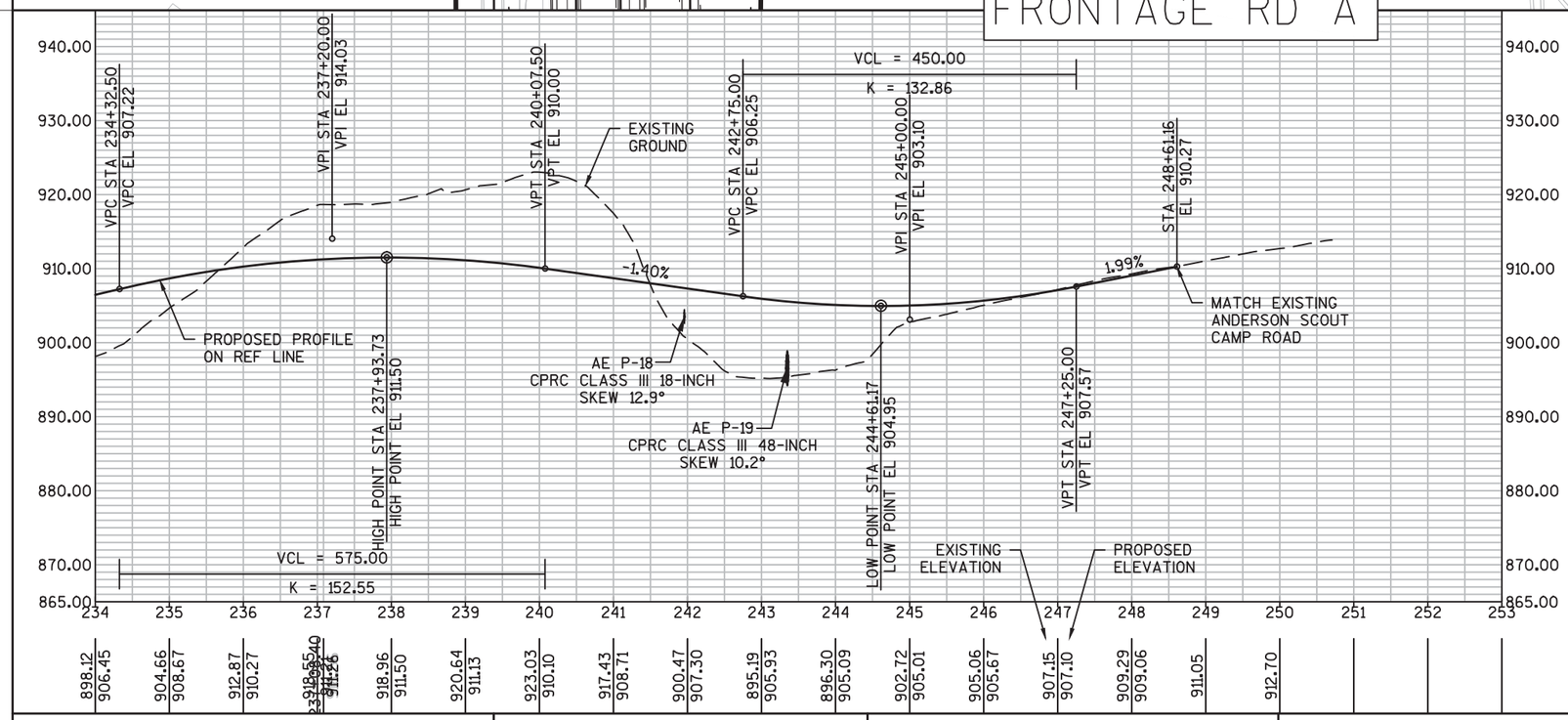
216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246

868.10	868.94	870.71	870.93	872.58	873.30	875.00	875.67	877.20	878.04	879.39	880.41	881.27	882.77	880.86	885.14	889.17	887.51	890.21	889.88	890.16	892.25	892.67	894.61	893.44	896.98	892.30	899.35	893.11	901.72	894.95	904.08	898.12	906.45	904.66	908.67	912.87	910.27	918.55	911.26	918.96	911.50	920.64	911.13	923.03	910.10	917.43	908.71	900.47	907.30	895.19	905.93	896.30	905.09	902.72	905.01	905.06	905.67

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: FRONTAGE ROAD A	SHEET E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050120_PP_FR-A_72.DWG PLOT DATE : 7/31/2014 11:15 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : ---------- PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44





PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: FRONTAGE ROAD A	SHEET 447	E

T.L.E. PLOURDE
NO TREES SHALL BE REMOVED IN THE T.L.E. AREA WITHOUT APPROVAL BY THE ENGINEER IN THE FIELD.

RIGHT OF WAY SHALL BE STAKED WITH WOODEN LATH IN 150' INCREMENTS ALONG THE PLOURDE PROPERTY
STA 243+68U – 257+00U
STA 243+70T – 246+63T
INCIDENTAL TO STAKING ITEMS

STRUCTURE: 20A
260+70.00U 15.41R
900.65

STRUCTURE: 20X
260+70.00U 16.59L
900.35

STRUCTURE: 21A
265+75.09U 61.96R
902.98

STRUCTURE: 21X
265+08.66U 30.66L
901.71

PI STA = 243+91.11
Y = 377803.328
X = 507379.389
L = 291.84'
R = 380.00'
PC STA = 242+37.57
Y = 377909.318
X = 507268.299
PT STA = 245+29.40
Y = 377804.262
X = 507532.927
BK = S46°20'44.5"E
AH = N89°39'05.4"E
SE: 4%

PI STA = 264+49.38
Y = 377815.940
X = 509452.866
L = 212.12'
R = 2206.00'
PC STA = 263+43.23
Y = 377815.295
X = 509346.724
PT STA = 265+55.36
Y = 377826.774
X = 509558.456
BK = N89°39'05.4"E
AH = N84°08'31.4"E
SE: 3.7%

T.L.E. KILBANE
T.L.E. SUTTER
T.L.E. DALTON
FRONTAGE RD A
FRONTAGE RD B
STH 35/64 WB
STH 35/64 EB
FRONTAGE RD C
PROPOSED R/W
SLOPE INTERCEPT
246+63.65T
51.10'
245+24.06T
54.72'
242+24.23U
PC: 242+37.57U
PT: 245+29.40U
243+68.21U –91.26'
244+50.00U –107.84'
246+00.00U –107.46'
247+50.00U –100.02'
248+29.99U –96.05'
249+00.00U –94.85'
250+50.00U –92.28'
252+00.00U –89.71'
253+50.00U –87.13'
255+00.00U –84.56'
256+97.38U –81.18'
PC: 263+43.23U
263+71.72U –81.10'
264+92.25U –84.72'
PT: 265+55.36U
FP: 266+01.36U
18X
19X
19A
18A
9X
9D
9C
9B
9A
10X
10B
10A
20X
20A
21X
21A
11X
11A
245U
250U
255U
260U
265U
240
245
250
255
260
265
N
0 100 200 300 FEET
SCALE

FRONTAGE RD B

VCL = 350.00
K = 162.20

STA 242+24.23
EL 906.08

VPC STA 244+35.00
VPC ELL 908.75

VPI STA 245+85.00
VPI EL 910.430

VPT STA 247+35.00
VPT EL 909.83

LOW POINT STA 261+05.51
LOW POINT EL 904.48

STA 266+01.36
EL 910.69

PROPOSED PROFILE ON REF LINE

AE P-20
CPRCHE CLASS HE-III 29x45-INCH
SKEW ???°

4.00%
1.12%
-0.40%
1.76%

MATCH FR-A

VCL = 300.00
K = 197.76

HIGH POINT STA 246+55.90
HIGH POINT EL 909.99

STA 242+35.23
EL 906.52

P-9D
SEE STORM SEWER PLAN

P-10B
SEE STORM SEWER PLAN

EXISTING GROUND

VPC STA 260+40.63
VPC EL 904.61

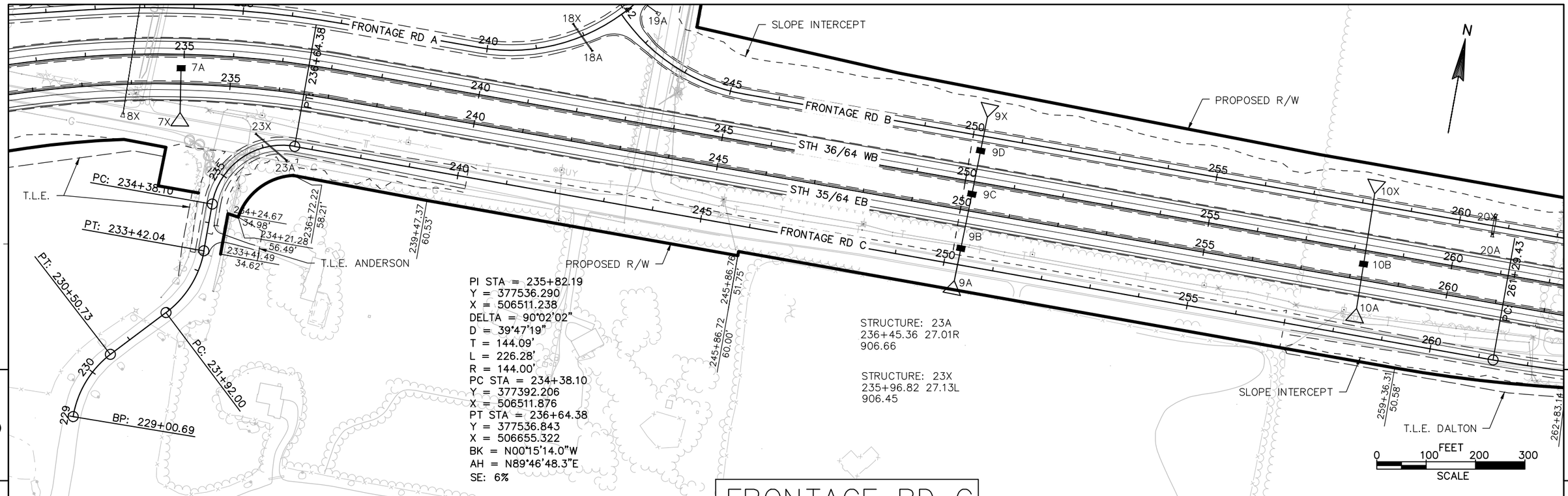
VPI STA 262+15.63
VPI EL 903.91

VPT STA 263+90.63
VPT EL 906.98

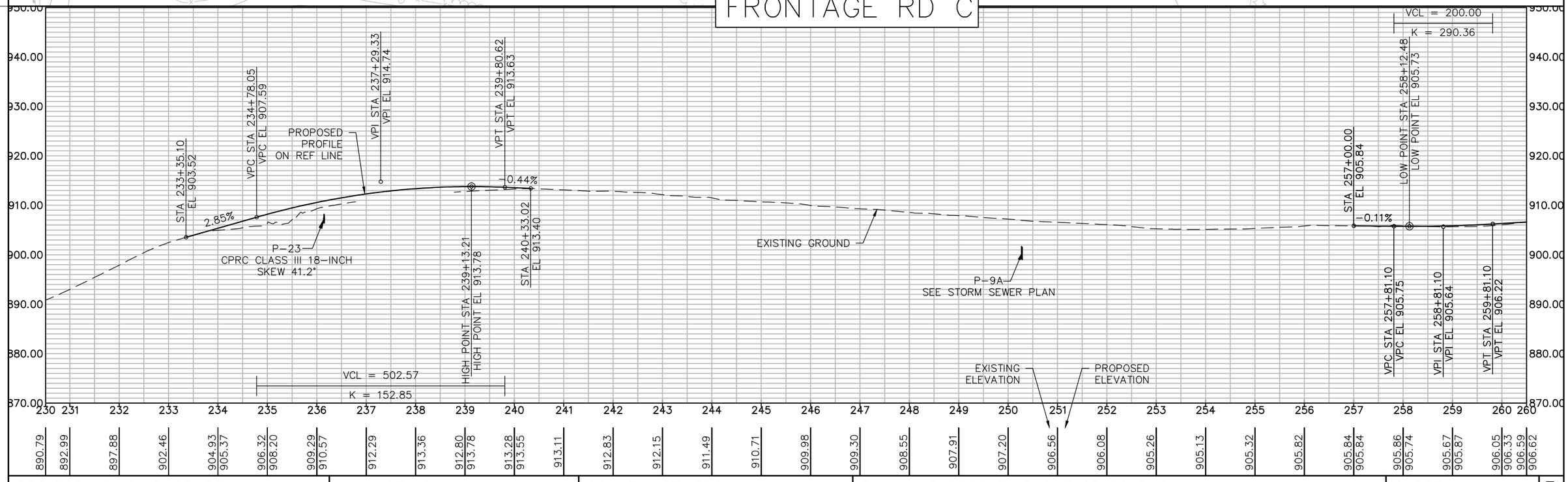
AE P-21
CPRC CLASS III 30-INCH
SKEW 39.5°

EXISTING ELEVATION
PROPOSED ELEVATION

| | | |



FRONTAGE RD C



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: FRONTAGE ROAD C	SHEET 449 E

PI STA = 262+82.79
Y = 377546.893
X = 509273.716
DELTA = 5°51'10"
D = 1°54'35"
T = 153.36'
L = 306.45'
R = 3000.00'
PC STA = 261+29.43
Y = 377546.304
X = 509120.358
PT STA = 264+35.89
Y = 377563.117
X = 509426.215
BK = N89°46'48.3"E
AH = N83°55'38.2"E
SE: 3.4%

PI STA = 270+31.81
Y = 377626.161
X = 510018.799
DELTA = 95°46'44"
D = 24°48'12"
T = 255.56'
L = 386.15'
R = 231.00'
PC STA = 267+76.26
Y = 377599.125
X = 509764.675
PT STA = 271+62.41
Y = 377370.606
X = 510020.110
BK = N83°55'38.2"E
AH = S00°17'38.0"E
SE: 6%

T.L.E. SUTTER
PROPOSED R/W
SLOPE INTERCEPT
FRONTAGE RD B
STH 35/64 WB
STH 35/64 EB
FRONTAGE RD C
PROPOSED R/W
SLOPE INTERCEPT
CONSTRUCT DALTON PRIVATE ENTRANCE
CONSTRUCT DALTON FARM ENTRANCE
T.L.E. DALTON
T.L.E. LEVERTY
PT: 271+62.41
EP: 275+07.56
9D
10X
10B
10A
11X
11A
20X
20A
21X
21A
266
265
260
255
270
275
PC: 261+76.26
PC: 259+29.43
PT: 264+35.89
269+44.09
48.46
271+83.22
37.17
271+83.14
25.52
273+07.97
25.84
262+83.14
33.37
259+36.31
50.58
N
0 100 200 300 FEET
SCALE
THIS MAPPING IN THIS AREA IS OUTSIDE CONTROL.

FRONTAGE RD C

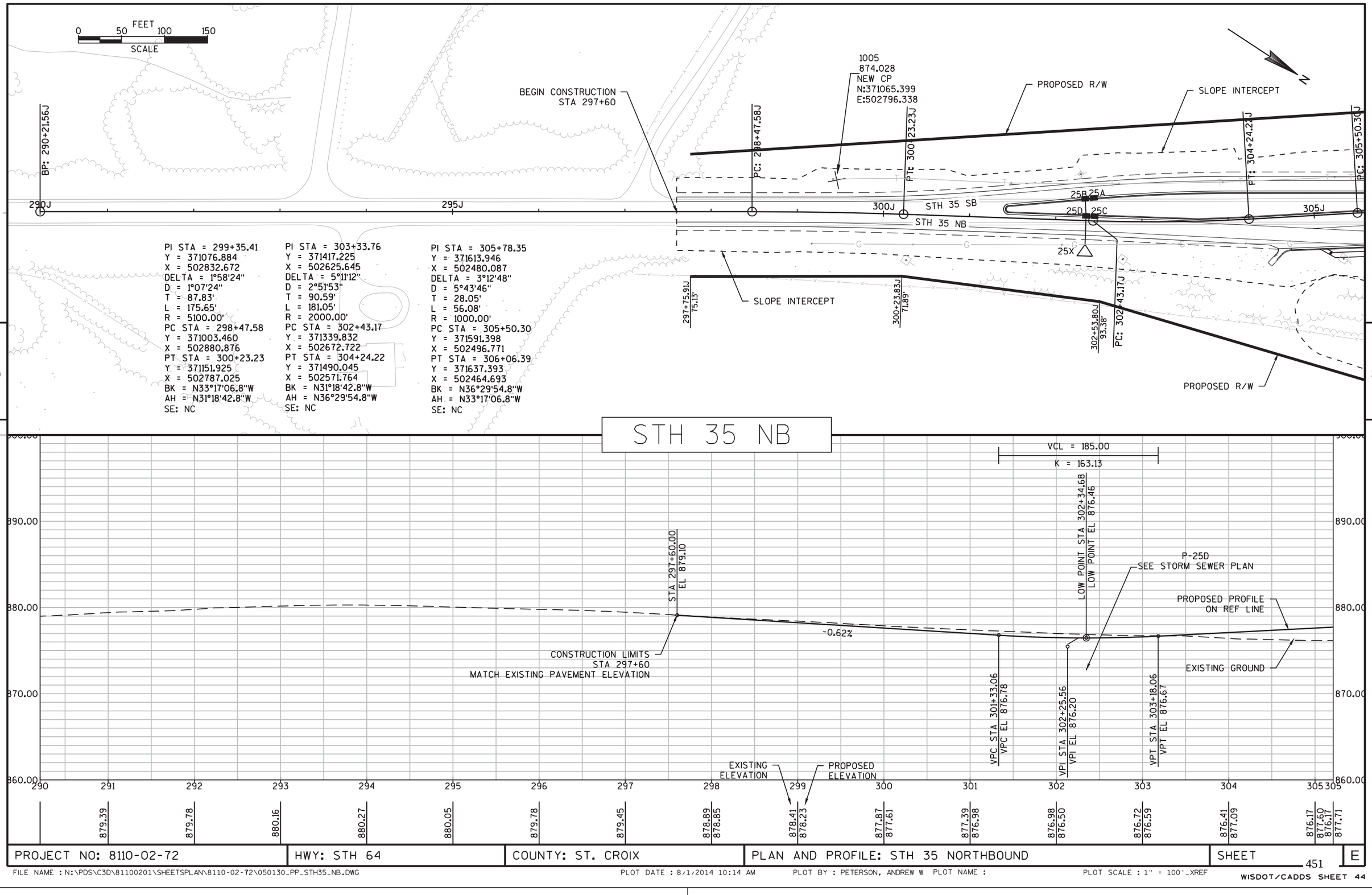
VCL = 200.00
K = 290.36
VCL = 300.00
K = 148.96
VCL = 215.00
K = 152.02
STA 257+00.00 EL 905.84
LOW POINT STA 258+12.48 LOW POINT EL 905.73
PROPOSED PROFILE ON REF LINE
VPC STA 265+80.43 VPC EL 909.70
VPI STA 266+87.93 VPI EL 910.33
VPT STA 267+95.43 VPT EL 909.43
VPC STA 269+82.16 VPC EL 907.88
VPI STA 271+32.16 VPI EL 906.63
STA 272+92.40 EL 908.52
-0.11%
0.58%
-0.83%
1.18%
EXISTING GROUND
VPC STA 257+81.10 VPC EL 905.75
VPI STA 258+81.10 VPI EL 905.64
VPT STA 259+81.10 VPT EL 906.22
HIGH POINT STA 266+68.71 HIGH POINT EL 909.96
LOW POINT STA 271+06.33 LOW POINT EL 907.36
VPT STA 272+82.16 VPT EL 908.40
EXISTING ELEVATION
PROPOSED ELEVATION

940.00 930.00 920.00 910.00 900.00 890.00 880.00 870.00

255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 274

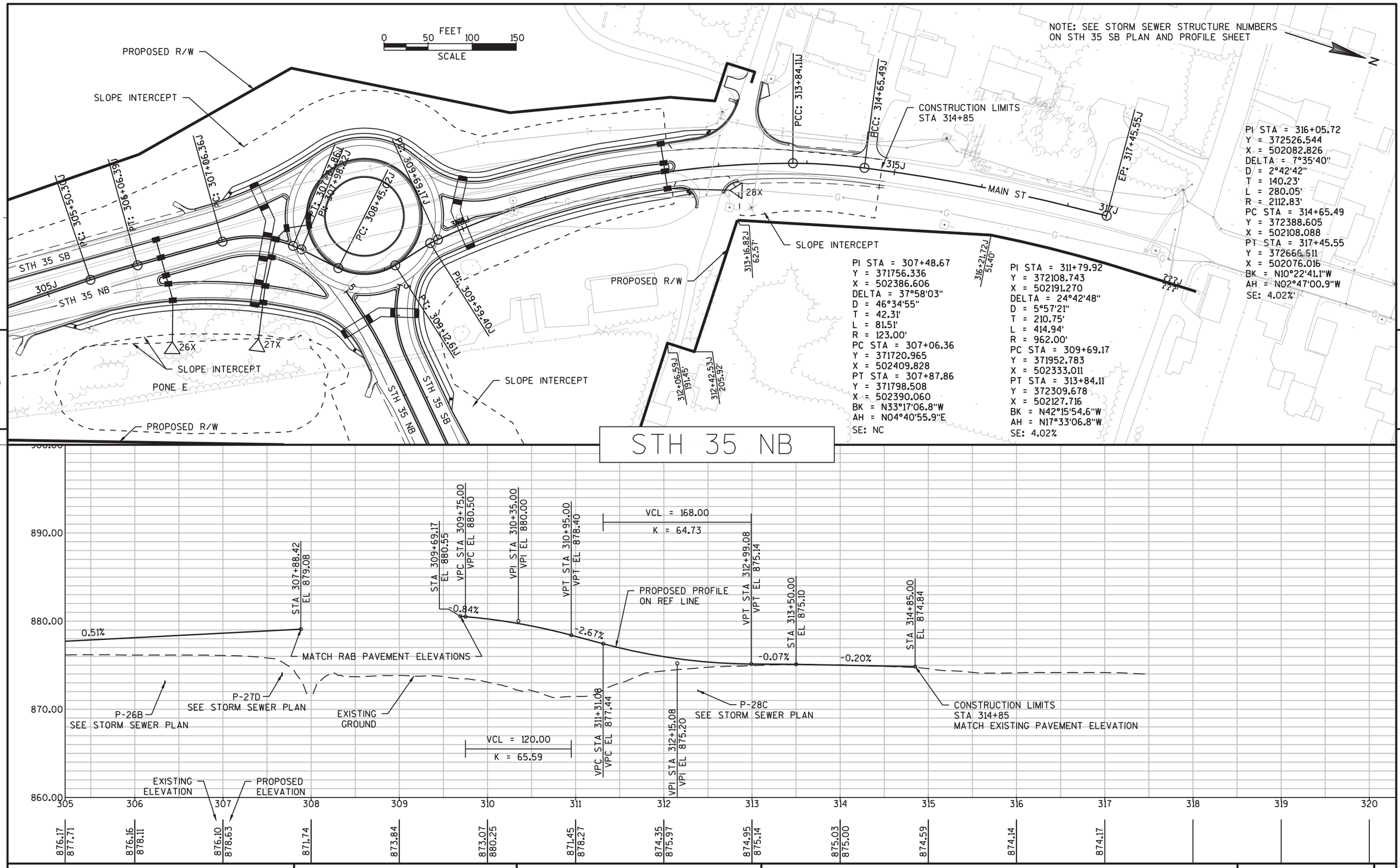
905.32 905.82 905.84 905.84 905.86 905.74 905.67 905.87 906.05 906.33 906.90 906.91 907.43 907.49 907.48 908.08 906.95 908.66 905.63 909.24 904.95 909.81 906.77 909.93 901.88 909.39 902.77 908.56 904.67 907.74 907.54 907.36 907.83 907.65 908.61 909.86 910.49

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: FRONTAGE ROAD C	SHEET 450 E



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 NORTHBOUND	SHEET 451	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050130_PP_STH35_NB.DWG PLOT DATE : 8/1/2014 10:14 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1" = 100'_XREF



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 NORTHBOUND, MAIN ST NORTHBOUND	SHEET 452	E

PI STA = 300+43.60
Y = 371167.793
X = 502772.990
DELTA = 4°58'23"
D = 2°51'53"
T = 86.85'
L = 173.60'
R = 2000.00'
PC STA = 299+56.75
Y = 371095.188
X = 502820.656
PT STA = 301+30.35
Y = 371235.992
X = 502719.210
BK = N33°17'06.8"W
AH = N38°15'30.3"W
SE = NC

PI STA = 303+20.34
Y = 371385.182
X = 502601.562
DELTA = 4°58'23"
D = 2°51'53"
T = 86.85'
L = 173.60'
R = 2000.00'
PC STA = 302+33.49
Y = 371316.983
X = 502655.342
PT STA = 304+07.09
Y = 371457.787
X = 502553.896
BK = N38°15'30.3"W
AH = N33°17'06.8"W
SE = NC

PI STA = 307+42.97
Y = 371738.571
X = 502369.559
DELTA = 12°59'52"
D = 11°27'33"
T = 56.96'
L = 113.43'
R = 500.00'
PC STA = 306+86.02
Y = 371690.957
X = 502400.818
PT STA = 307+99.44
Y = 371777.934
X = 502328.393
BK = N33°17'06.8"W
AH = N46°16'58.4"W
SE = NC

BP: 295+21.00K
297+75.34K -66.71'
PT: 301+30.35K
PC: 302+33.49K
PT: 304+07.09K
306+41.17K -96.77'
PC: 306+86.02K
PI: 307+99.44
PI: 308+11.00
308+58.75K -121.96'
PC: 308+57.80K
PT: 309+43.98K
PI: 309+70.78K
PC: 309+80.46K
PT: 310+49.42K

1005
1874.028
NEW CP
N:371065.399
E:502796.998

296K 296
298K 298
300K 300
302K 302
304K 304
306K 306
308K 308
310K 310

STH 35 NB
STH 35 SB

25X
26X
27X
30X
54A
54X

PROPOSED R/W
SLOPE INTERCEPT
BEGIN CONSTRUCTION
STA 297+59
SLOPE INTERCEPT
PC: 299+56.75K
PROPOSED R/W
POND E

N
0 50 100 150
FEET
SCALE

5
5

STH 35 SB

VCL = 190.00
K = 166.63

STA 297+59.44
EL 879.10

STA 307+99.44
EL 879.17

VPC STA 309+85.00
VPC EL 880.60

PROPOSED PROFILE
ON REF LINE

-0.62%
0.52%
-0.92%

BEGIN CONSTRUCTION
STA 297+59
MATCH EXISTING STH 35
ROADWAY ELEVAITON

VPC STA 301+30.00
VPC EL 876.79

VPI STA 302+25.00
VPI EL 876.20

VPT STA 303+20.00
VPT EL 876.69

EXISTING GROUND

MATCH RAB
PAVEMENT ELEVATION

STA 309+80.66
EL 880.64

VCL = 130.00
K = 81.40

890.00
880.00
870.00
860.00
856.00

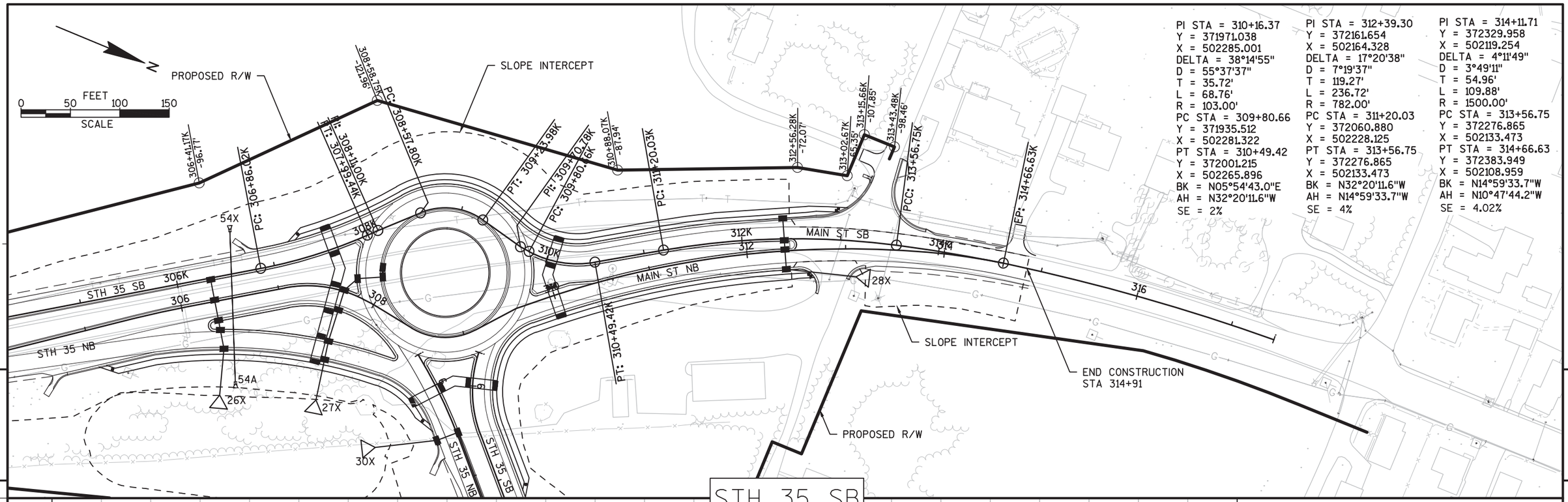
295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310

EXISTING ELEVATION
PROPOSED ELEVATION

879.98	879.78	879.45	878.89	878.41	877.86	877.39	876.72	875.64	874.98	874.32	874.32	875.03	872.34	871.05	874.78
			878.85	878.22	877.60	876.98	876.50	876.60	877.11	877.62	878.14	878.66			880.44

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 SB	SHEET 453	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050130_PP_STH35_SB_NEW.DWG
LAYOUT NAME - 050130_PP_STH35_SB_NEW - 01
PLOT DATE : 8/1/2014 11:29 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 44



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 SB, MAIN ST	SHEET 454	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050130_PP_STH35_SB_NEW.DWG
LAYOUT NAME - 050130_PP_STH35_SB_NEW - 02
PLOT DATE : 8/1/2014 11:29 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 44

R/W

SLOPE INTERCEPT

SLOPE INTERCEPT

LINE AA - STH 35/MAIN ST RAB CENTER CIRCLE

EP: 9+11.46A

P: 5+00.00AA

9+00AA

6+00AA

8+00AA

7+00AA

STH 35/MAIN ST
RAB

305+00

306+00

307+00

308+00

309+00

310+00

311+00

312+00

STH 35 SB

STH 35 NB

MAIN ST SB

MAIN ST NB

26A

26B

26C

26D

26E

27A

27B

27C

27D

27E

27F

27G

28A

28B

28C

28D

STH 35 NB RIGHT TURN BAY

SLOPE INTERCEPT

N

0 25 50 75 FEET
SCALE

5

5

STH 35/MAIN ST RAB CENTER CIRCLE

PROPOSED PROFILE
ON REF LINE

VCL = 90.00
K = 45.00

VCL = 90.00
K = 45.00

-1.00%

1.00%

-1.00%

880.00

870.00

SAME POINT AS STA 9+11

SAME POINT AS STA 5+00

EXISTING GROUND

EXISTING
ELEVATION

PROPOSED
ELEVATION

VPC STA 5+65.00 VPC EL 879.11	VPI STA 6+10.00 VPI EL 878.66	VPT STA 6+55.00 VPT EL 879.11	VPC STA 7+70.75 VPC EL 880.27	VPI STA 8+15.75 VPI EL 880.72	VPT STA 8+60.75 VPT EL 880.27
LOW POINT STA 6+10.00 LOW POINT EL 878.88				HIGH POINT STA 8+15.75 HIGH POINT EL 880.49	

5 6 7 8 9

870.91 879.76	875.94 878.90	873.78 879.56	871.61 880.46	870.99 879.87	870.91 879.76

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/MAIN ST RAB CENTER CIRCLE	SHEET 455 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050131_PP_KL45.DWG
LAYOUT NAME - 050131_PP_KL45 - 31_PP-1
PLOT DATE : 9/26/2014 2:56 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME :
PLOT SCALE : 1" = 50'_XREF
WISDOT/CADDS SHEET 44

PI STA = 6+97.33
Y = 371799.676
X = 502379.686
DELTA = 76°12'27"
D = 54°34'03"
T = 82.34'
L = 139.66'
R = 105.00'
PC STA = 6+14.99
Y = 371730.843
X = 502424.875
PT STA = 7+54.64
Y = 371859.973
X = 502435.761
BK = N33°17'06.8"W
AH = N42°55'20.2"E

PROPOSED R/W
SLOPE INTERCEPT
LINE BB - STH 35/MAIN ST RAB NB ISLAND
STH 35/MAIN ST RAB
MAIN ST NB
STH 35 SB
STH 35 NB
STH 35 NB RT TURN BAY
POND E
SLOPE INTERCEPT
BP: 5+14.90BB
6+00BB
7+00BB
PC: 6+14.98BB
EP: 7+54.64BB
54X
54A
26X
26A
26B
26C
26D
26E
27A
27B
27C
27D
27E
27F
27G
27X
30H
30J
30X
304+00
305+00
306+00
307+00
308+00
309+00
310+00
6+00
7+00
N
0 25 50 75 FEET
SCALE

STH 35/MAIN ST RAB NB ISLAND

VCL = 50.00
K = 38.42

VPC STA 6+40.00
VPC EL 878.30

VPI STA 6+65.00
VPI EL 878.40

VPC STA 6+90.00
VPC EL 878.82

VPI STA 7+15.00
VPI EL 879.25

HIGH POINT STA 7+37.90
HIGH POINT EL 879.23

PROPOSED PROFILE ON REF LINE
0.40%
-0.07%

EXISTING GROUND
P-27D
SEE STORM SEWER PLAN
P-26B
SEE STORM SEWER PLAN

VPT STA 6+90.00
VPT EL 878.82

VPT STA 7+40.01
VPT EL 879.23

VCL = 50.01
K = 28.18

EXISTING ELEVATION
PROPOSED ELEVATION

880.00
870.00
4 5 6 7 8 8

875.29 877.94
875.21 878.14
874.00 878.35
873.00 878.98
874.32 879.22

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/MAIN ST RAB NB ISLAND	SHEET 456 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050132_PP_KL46B.DWG
LAYOUT NAME - 01
PLOT DATE : 9/26/2014 8:28 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME :
PLOT SCALE : 1" = 50'_XREF

PI STA = 307+08.69
Y = 371747.590
X = 502447.421
DELTA = 32°06'36"
D = 11°27'33"
T = 143.89'
L = 280.21'
R = 500.00'
PC STA = 305+64.79
Y = 371623.479
X = 502520.231
PT STA = 308+45.01
Y = 371891.419
X = 502451.720
BK = N30°23'53.2"W
AH = N01°42'43.1"E

1005
874.028
NEW CP
N:371065.399
E:502796.338

PROP R/W
SLOPE INTERCEPT
STH 35 SB
STH 35 NB
STH 35/
MAIN ST RAB
MAIN ST SB
MAIN ST NB
POND E
LINE CC - STH 35 NB RT TURN BAY
STH 35 NB RT TURN LANE
SLOPE INTERCEPT
SLOPE INTERCEPT
PROP R/W
PROP R/W
BP: 302+43.17CC
PC: 305+64.79CC
EP: 308+45.01CC

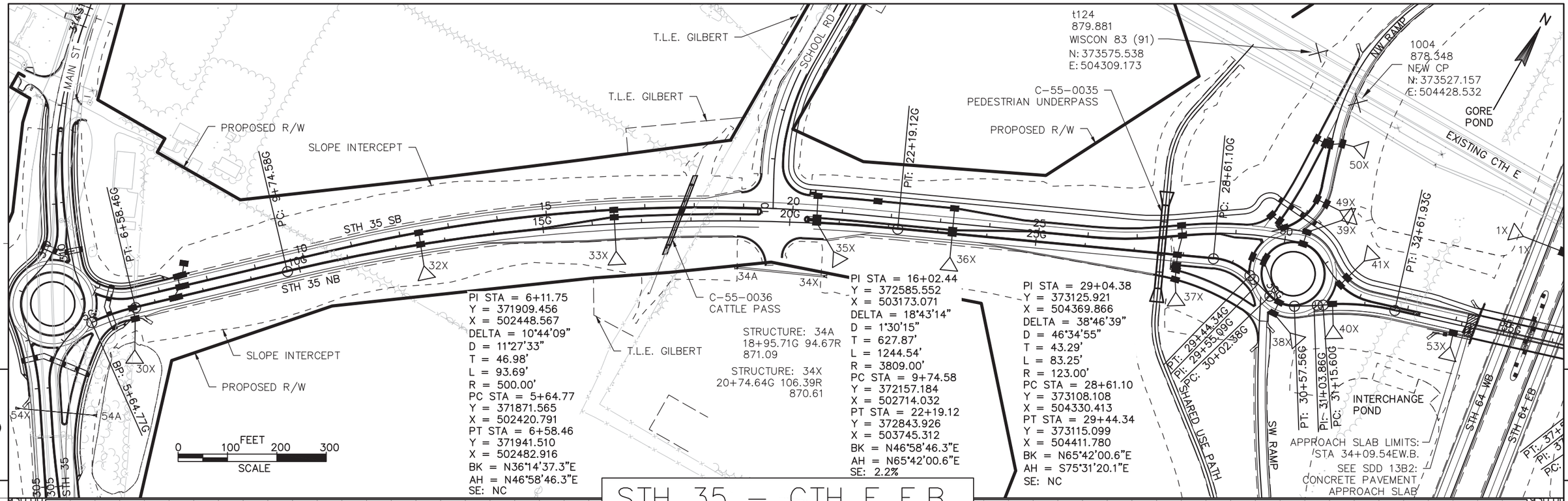
0 50 100 150 FEET
SCALE

STH 35 NB RT TURN

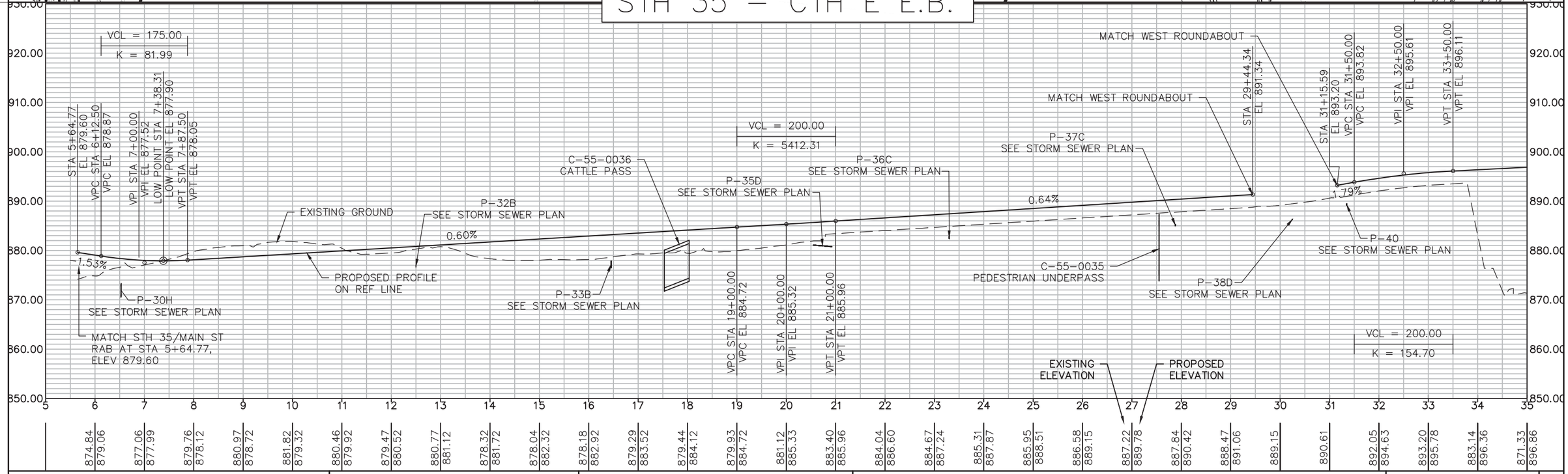
VCL = 70.00
K = 325.70
VPC STA 302+47.00
VPC EL 876.22
VPI STA 302+82.00
VPI EL 876.26
VPT STA 303+17.00
VPT EL 876.37
VCL = 129.98
K = 119.18
VPC STA 305+85.00
VPC EL 877.22
VPI STA 306+49.99
VPI EL 877.43
VPC STA 307+14.98
VPC EL 878.35
VPI STA 307+65.00
VPI EL 879.05
HIGH POINT STA 307+98.07
HIGH POINT EL 878.93
VPT STA 308+15.03
VPT EL 878.91
VCL = 100.05
K = 58.99
PROPOSED PROFILE ON REF LINE
0.10%
0.32%
-0.29%
EXISTING GROUND
P-26D
SEE STORM SEWER PLAN
P-27F
SEE STORM SEWER PLAN
EXISTING ELEVATION
PROPOSED ELEVATION
890.00
880.00
870.00
860.00
301 302 303 304 305 306 307 308 309 309
874.84 876.32
873.12 876.64
872.32 876.95
871.44 877.28
871.95 878.14
874.56 878.93

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 NB RT TURN	SHEET 457	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050133_PP_KL46C.DWG
LAYOUT NAME - 050133_PP_KL46C - 33_PP-1
PLOT DATE : 7/31/2014 3:26 PM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1:100_XREF



STH 35 – CTH E E.B.



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 NB	SHEET 458 E

STRUCTURE: 46A
46+02.28G 95.82L
863.34

STRUCTURE: 46X
45+87.21G 87.56R
862.42

PROPOSED R/W

SLOPE INTERCEPT

STH 64 WB

STH 64 EB

STH 35/NE RAMP

EXISTING CTH E

PC: 36+74.52G

PT: 40+70.98G

PC 42+40.58G

CTH E WB

CTH E EB

T.L.E. GILLSTROM

PT 47+90.78G

THELEN FARM TR

T.L.E. RENEAU

STRUCTURE: 47A
51+22.52G 69.32L
868.00

STRUCTURE: 47X
51+04.39G 73.53R
866.34

END CONSTRUCTION
55+15.00
X=506880.053
Y=373559.815

EP: 62+72.79G

1X

42X

43X

48X

44X

45X

46X

47X

52X

52A

40G

45G

50G

55G

60G

62G

T.L.E. DURAND

T.L.E. SEVERSON

T.L.E. PLAHN

T.L.E. FAGERLUND

SEE SDD 13B2:
CONCRETE PAVEMENT
APPROACH SLAB
"A"
APPROACH
SLAB LIMITS:
STA 36+66.17 E.B.

PT: 37+58.54G
PI: 37+68.93G
PC: 38+15.77G

PT: 38+66.63G
PI: 39+13.63G
PI: 39+25.33G
PC:

SE RAMP

SLOPE INTERCEPT

PROPOSED R/W

PI STA = 39+98.22
Y = 373329.757
X = 505403.903
DELTA = 5°33'48"
D = 3°49'11"
T = 72.88'
L = 145.65'
R = 1500.00'
PC STA = 39+25.33
Y = 373305.366
X = 505335.223
PT STA = 40+70.98
Y = 373360.692
X = 505469.895
BK = N70°26'51.7"E
AH = N64°53'03.3"E
SE: NC

STRUCTURE: 52A
52+99.01G 48.82R
875.86

STRUCTURE: 52X
52+19.28G 55.34R
875.26

PI STA = 45+19.99
Y = 373551.273
X = 505876.451
DELTA = 24°37'41"
D = 4°28'34"
T = 279.41'
L = 550.20'
R = 1280.00'
PC STA = 42+40.58
Y = 373432.676
X = 505623.455
PT STA = 47+90.78
Y = 373553.651
X = 506155.855
BK = N64°53'03.3"E
AH = N89°30'44.5"E
SE: 3.6%

t121
918.566
WISCON. 83 (91)
N: 373578.502
E: 507339.447

1003
922.142
NEW CP
N: 373532.230
E: 507882.839

N

0 100 200 300 FEET
SCALE

5

5

STH 35 – CTH E E.B.

VCL = 1100.00
K = 124.27

MATCH EAST ROUNDABOUT

STA 37+58.54
EL 898.15

STA 39+25.33
EL 896.00

MATCH EAST ROUNDABOUT

0.50%

2.41%

VPC STA 44+11.66
VPC EL 884.28

PROPOSED PROFILE ON REF LINE

LOW POINT STA 49+35.76
LOW POINT EL 877.96

VPI STA 51+11.66
VPI EL 867.41

6.44%

STA 55+15.00
EL 893.39

END CONSTRUCTION
STA. 55+15
MATCH EXISTING CTH E ROADWAY

VPT STA 55+11.66
VPT EL 893.18

P-42C
SEE STORM SEWER PLAN

P-43D
SEE STORM SEWER PLAN

P-44C
SEE STORM SEWER PLAN

P-45B
SEE STORM SEWER PLAN

EXISTING GROUND

EXISTING ELEVATION

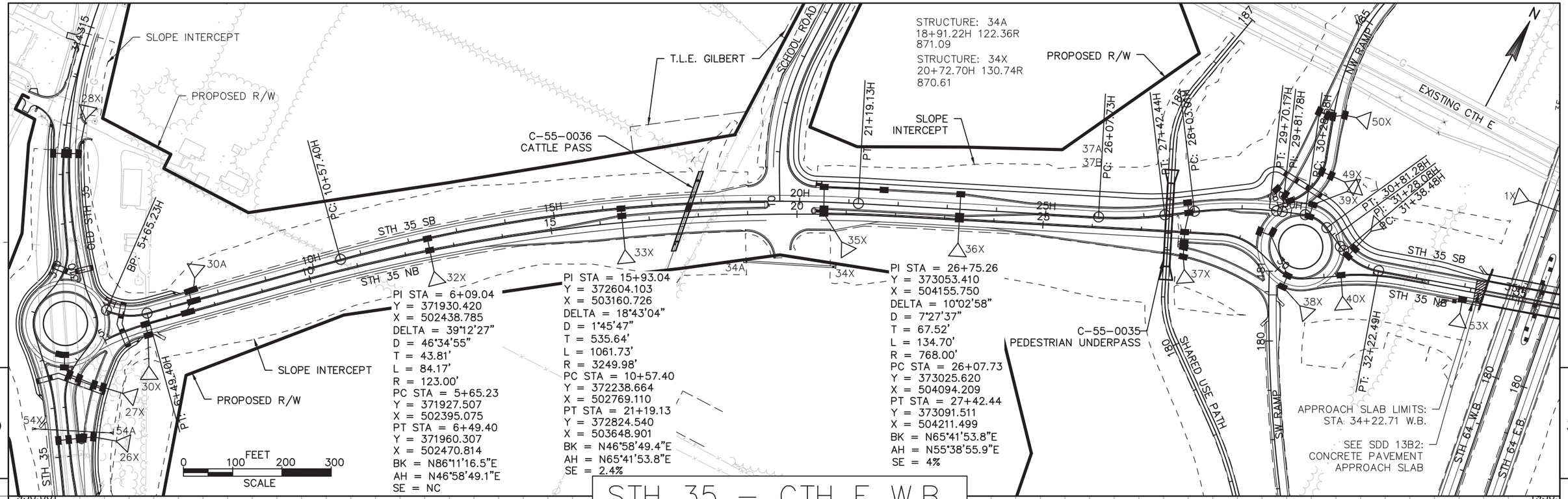
PROPOSED ELEVATION

930.00
920.00
910.00
900.00
890.00
880.00
870.00
860.00
855.00

35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62

871.33	871.12	895.27	894.99	893.62	891.62	889.22	886.83	884.43	879.29	863.10	866.12	866.57	867.15	867.86	868.99	871.05	874.45	880.11	886.86	892.44	905.89	911.79	916.29	919.79	922.04	923.94	924.80	
896.86	897.36	897.86			894.20	891.79	889.38	886.97	884.56	882.33	880.56	879.24	878.39	877.99	878.06	878.58	879.94	882.70										

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 NB, CTH E EB	SHEET 459 E



PROJECT NO:8110-02-72	HWY:STH 35	COUNTY:ST. CROIX	PLAN AND PROFILE: STH 35 — CTH E WESTBOUND	SHEET 460 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050141_PP_STH35-CTH_E-WB_72.DWG PLOT DATE : 8/1/2014 9:53 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : _____PLOT SCALE : 1" = 200'_XREF
WISDOT/CADDS SHEET 44

STH 35 – CTH E W.B.

PROPOSED R/W
SLOPE INTERCEPT
STRUCTURE: 46A
46+12.76H 89.70L
863.34
STRUCTURE: 46X
46+08.75H 94.26R
862.42
T.L.E. GILLSTROM
T.L.E. RENEAU
PI STA = 44+00.61
Y = 373512.607
X = 505751.895
DELTA = 11°48'10"
D = 7°38'22"
T = 77.52'
L = 154.50'
R = 750.00'
PC STA = 43+23.09
Y = 373484.301
X = 505679.723
PT STA = 44+77.59
Y = 373525.553
X = 505828.330
BK = N68°35'04.6"E
AH = N80°23'14.9"E
SE: 2%
PI STA = 46+36.74
Y = 373552.129
X = 505985.250
DELTA = 9°05'59"
D = 2°51'53"
T = 159.15'
L = 317.64'
R = 2000.00'
PC STA = 44+77.59
Y = 373525.553
X = 505828.330
PT STA = 47+95.23
Y = 373553.553
X = 506144.398
BK = N80°23'14.9"E
AH = N89°29'13.8"E
SE: 3.8%
N
EP: 62+88.70H
OLD CTH E
STH 64 WB
STH 64 EB
STH 35/NE RAMP
PI: 36+96.18H
PC: 36+96.18H
PI: 37+89.43H
PT: 37+77.83H
PC: 38+36.25H
PT: 39+03.01H
PI: 39+49.81H
PC: 39+60.73H
PC: 43+23.09H
PCC: 44+77.59H
PT: 47+95.23H
1X
STH 35 SB
STH 35 NB
42X
43X
48X
53X
SE RAMP
SEE SDD 13B2:
CONCRETE PAVEMENT
APPROACH SLAB
APPROACH SLAB LIMITS:
STA 36+79.34 W.B.
44A
44B
45A
45B
45H
45X
46A
46X
CTH E WB
CTH E EB
40
PT: 40+59.44H
44X
47A
47X
50
55
52X
52A
60
62H
T.L.E. DURAND
T.L.E. SEVERSON
T.L.E. FAGERLUND
T.L.E. PLAHN
PROPOSED R/W
SLOPE INTERCEPT
STRUCTURE: 47A
51+38.43H 69.32L
868.00
STRUCTURE: 47X
51+20.30H 73.53R
866.34
STRUCTURE: 52A
53+14.92H 48.82R
875.86
STRUCTURE: 52X
52+35.19H 55.34R
875.26
0 100 200 300 FEET
SCALE
5
5

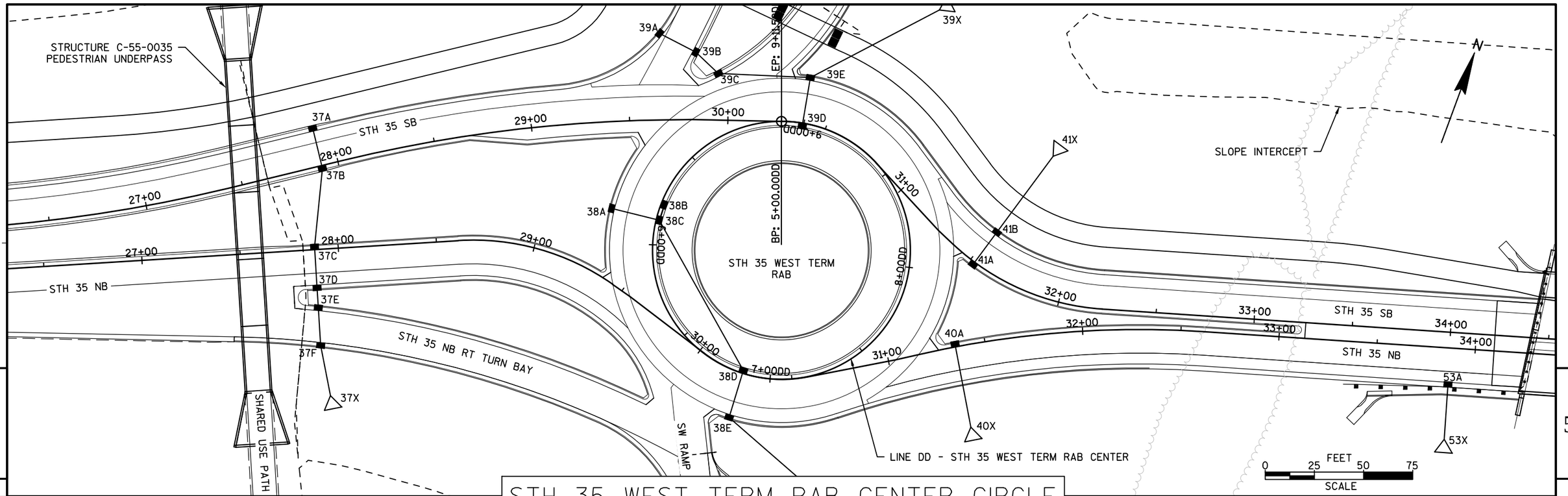
VCL = 60.00
K = 118.65
VCL = 378.38
K = 218.65
VPI STA 37+30.01
VPI EL 897.94
STA 37+77.79
EL 898.42
MATCH EAST ROUNDABOUT
PROPOSED PROFILE
ON REF LINE
P–42A
SEE STORM
SEWER PLAN
0.50%
1.00%
2.47%
VPC STA 44+28.31
VPC EL 884.52
VPI STA 46+17.50
VPI EL 879.84
VPT STA 48+06.69
VPT EL 878.45
EXISTING GROUND
VPC STA 37+00.01
VPC EL 897.79
VPT STA 37+60.01
VPT EL 898.24
P–44A
SEE STORM SEWER PLAN
EXISTING
ELEVATION
PROPOSED
ELEVATION
P–46
CPRC CLASS III 24–INCH
SKEW 4.7°
P–47
CPRC CLASS III 24–INCH
SKEW 7.2°

930.00 920.00 910.00 900.00 890.00 880.00 870.00 860.00

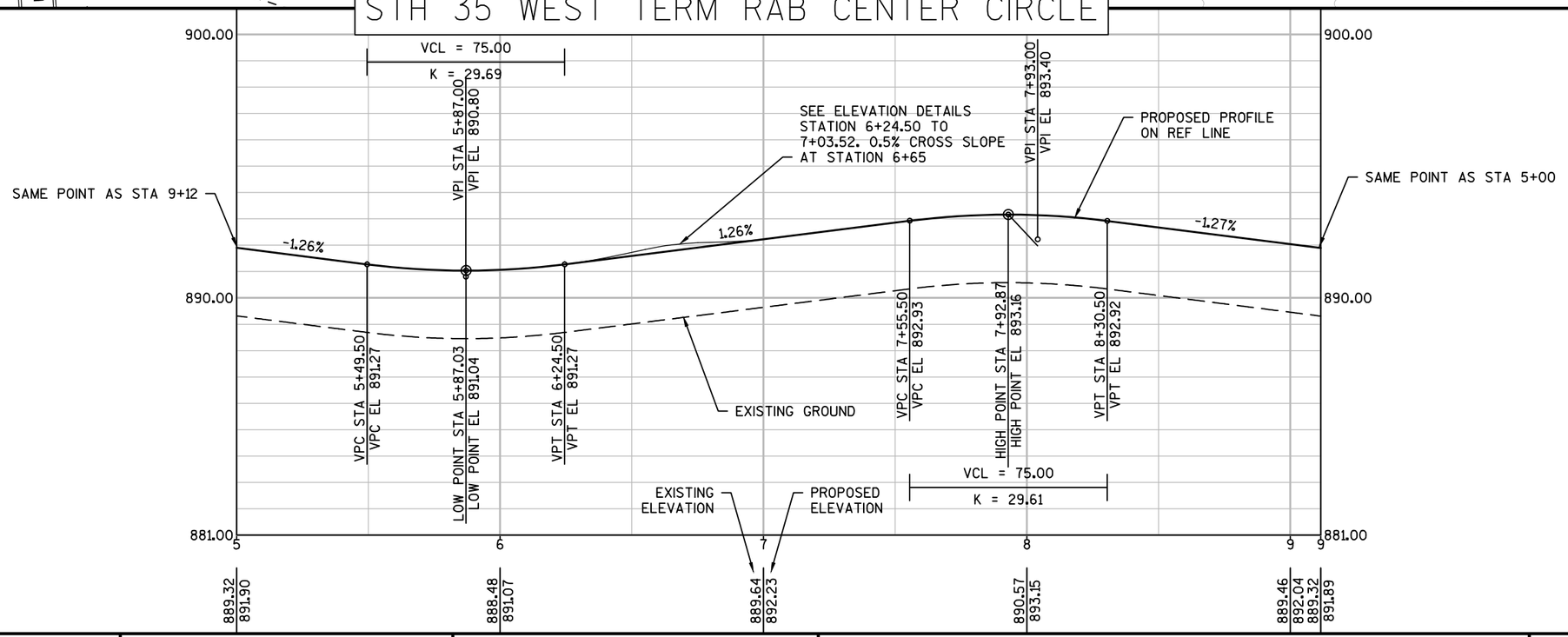
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 62

871.29 896.79 | 871.43 897.29 | 888.58 897.79 | 895.67 | 894.05 | 892.26 895.09 | 889.53 892.62 | 887.06 890.15 | 884.69 887.68 | 871.19 885.21 | 865.58 882.86 | 867.16 880.95 | 866.50 879.50 | 867.06 878.50 | 867.73 | 868.79 | 870.66 | 873.65 | 879.11 | 885.02 | 904.80 | 910.85 | 915.65 | 919.32 | 921.74 | 923.70 | 924.72

PROJECT NO:8110–02–72	HWY:STH 35	COUNTY:ST. CROIX	PLAN AND PROFILE: STH 35 – CTH E WESTBOUND	SHEET 461 E

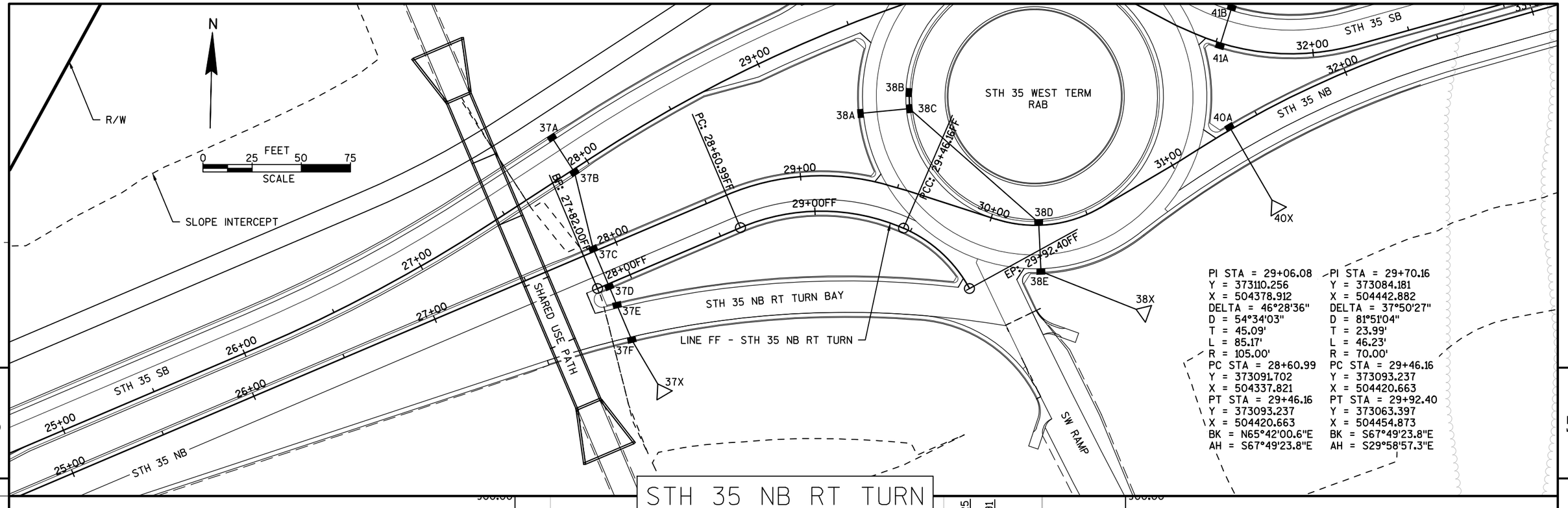


STH 35 WEST TERM RAB CENTER CIRCLE

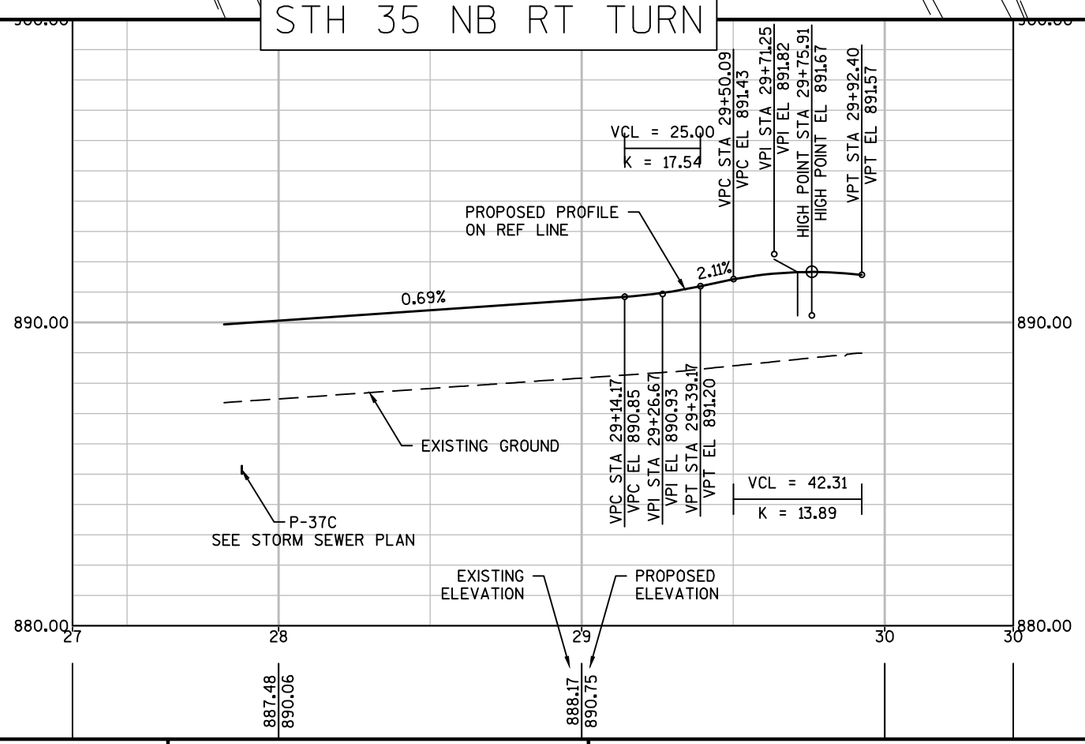


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 WEST TERM RAB CENTER CIRCLE	SHEET 462 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050142_PP_1KL43.DWG
LAYOUT NAME - 050142_PP_1KL43 - 42_PP_KL43-1
PLOT DATE : 9/26/2014 11:11 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:50_XREF
WISDOT/CADDS SHEET 44

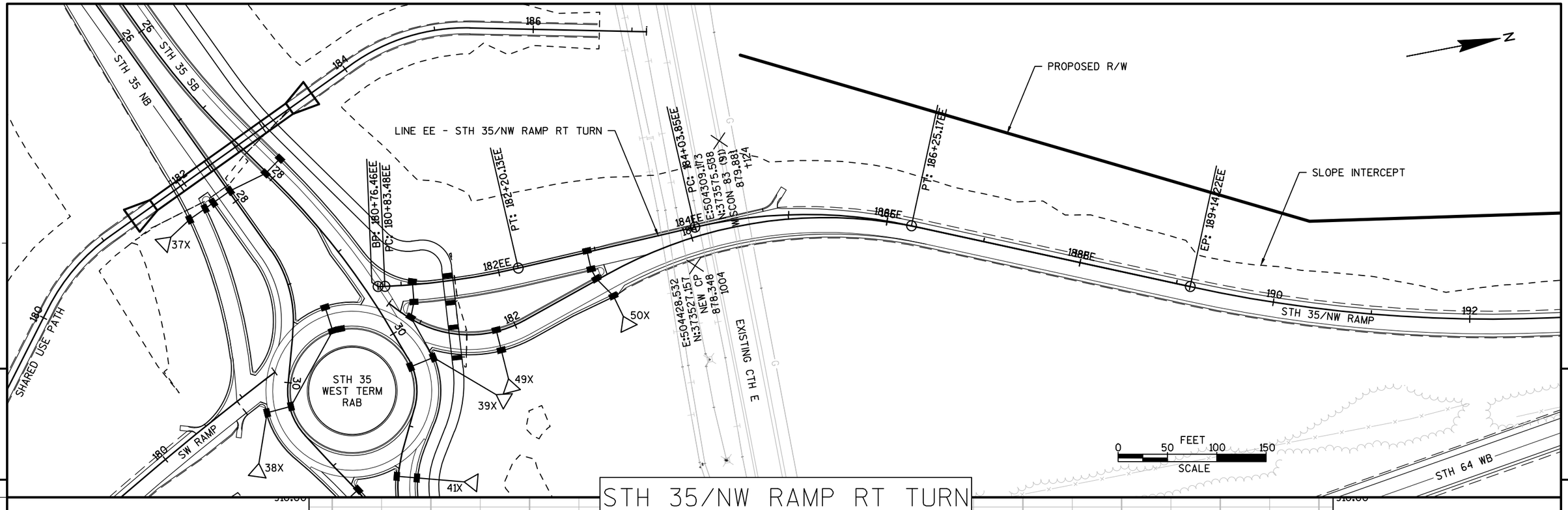


STH 35 NB RT TURN



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 NB RT TURN	SHEET 463 E

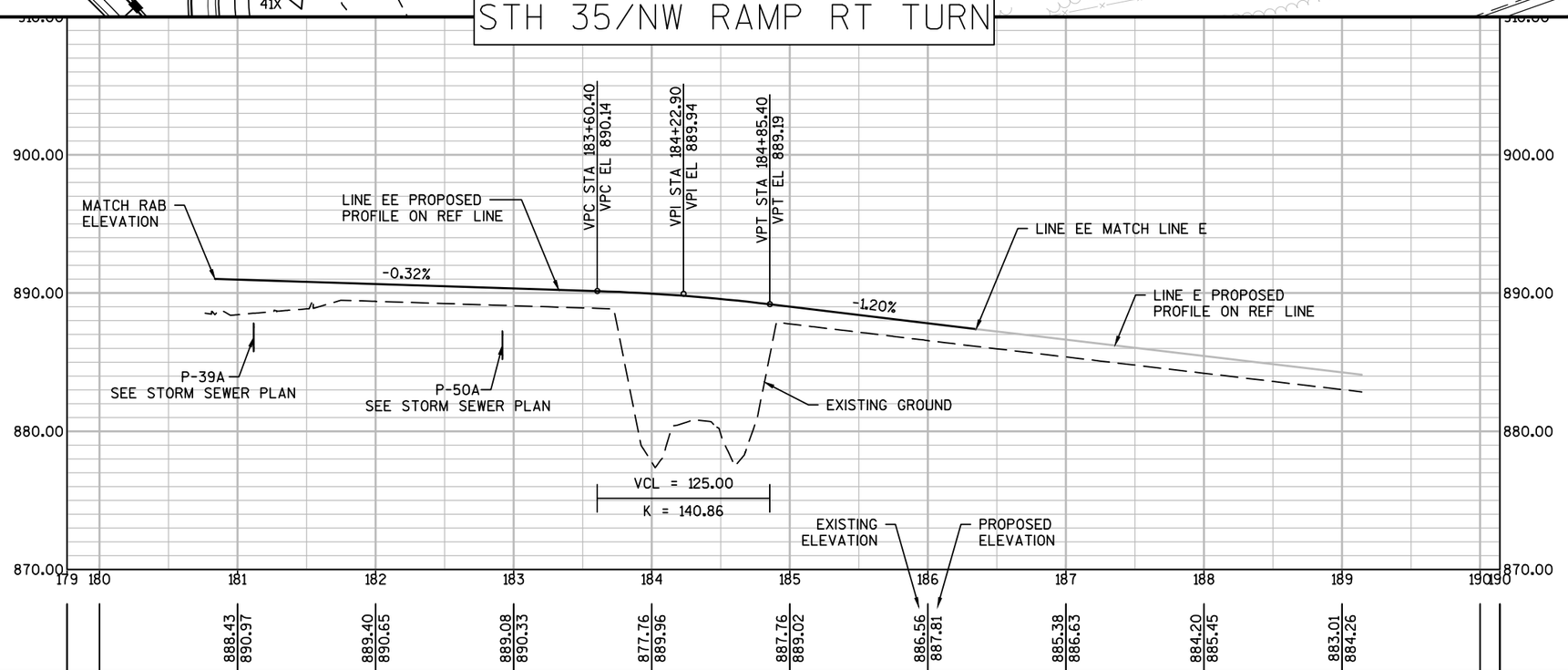
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050142_PP_2KL38C.DWG
LAYOUT NAME - 050142_PP_2KL38C - 01
PLOT DATE : 9/26/2014 10:36 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:50_XREF
WISDOT/CADDS SHEET 44



STH 35/NW RAMP RT TURN

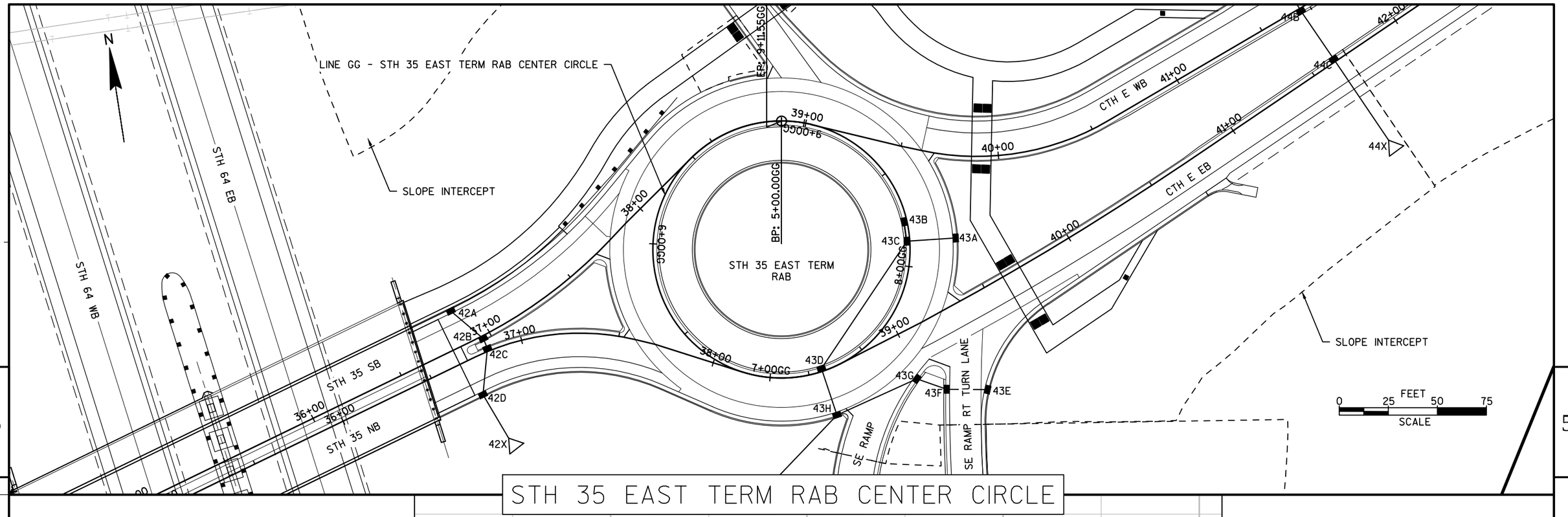
PI STA = 181+52.00
Y = 373282.348
X = 504398.783
DELTA = 10°40'00"
D = 7°48'21"
T = 68.52'
L = 136.65'
R = 734.00'
PC STA = 180+83.48
Y = 373214.619
X = 504388.392
PT STA = 182+20.13
Y = 373350.830
X = 504396.457
BK = N08°43'19.1"E
AH = N01°56'40.7"W
SE: 2%

PI STA = 185+16.35
Y = 373646.882
X = 504386.405
DELTA = 25°21'39"
D = 11°27'33"
T = 112.50'
L = 221.32'
R = 500.00'
PC STA = 184+03.85
Y = 373534.446
X = 504390.223
PT STA = 186+25.17
Y = 373750.117
X = 504431.114
BK = N01°56'40.7"W
AH = N23°24'58.7"E
SE: 5.6%

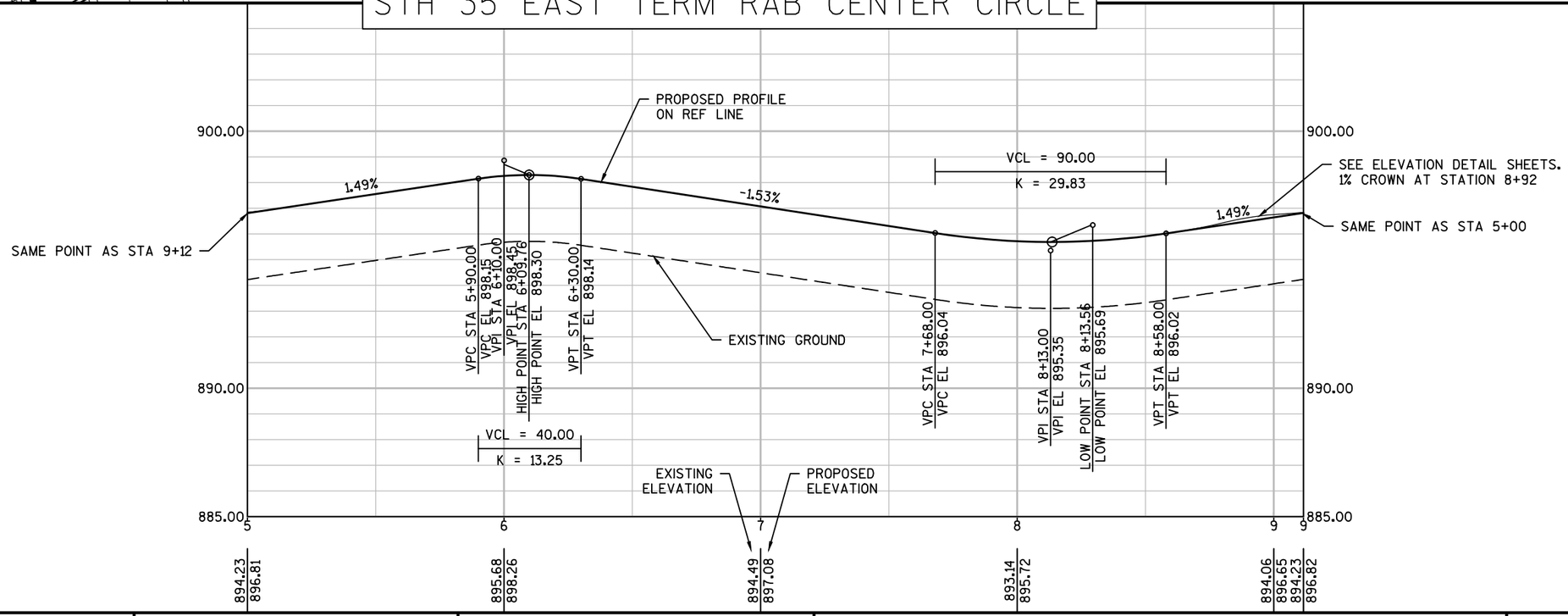


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35/NW RAMP RT TURN	SHEET 464 E

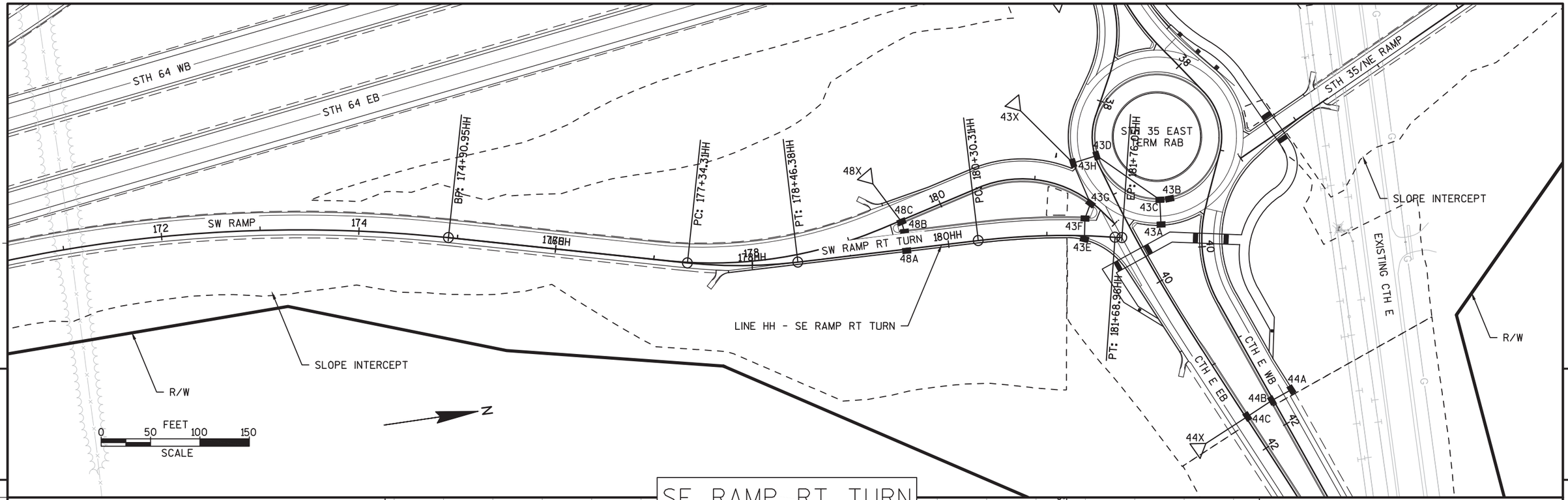
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050142_PP_3KL40A.DWG
LAYOUT NAME - 050142_PP_3KL40A - 01
PLOT DATE : 9/26/2014 10:41 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 44



STH 35 EAST TERM RAB CENTER CIRCLE



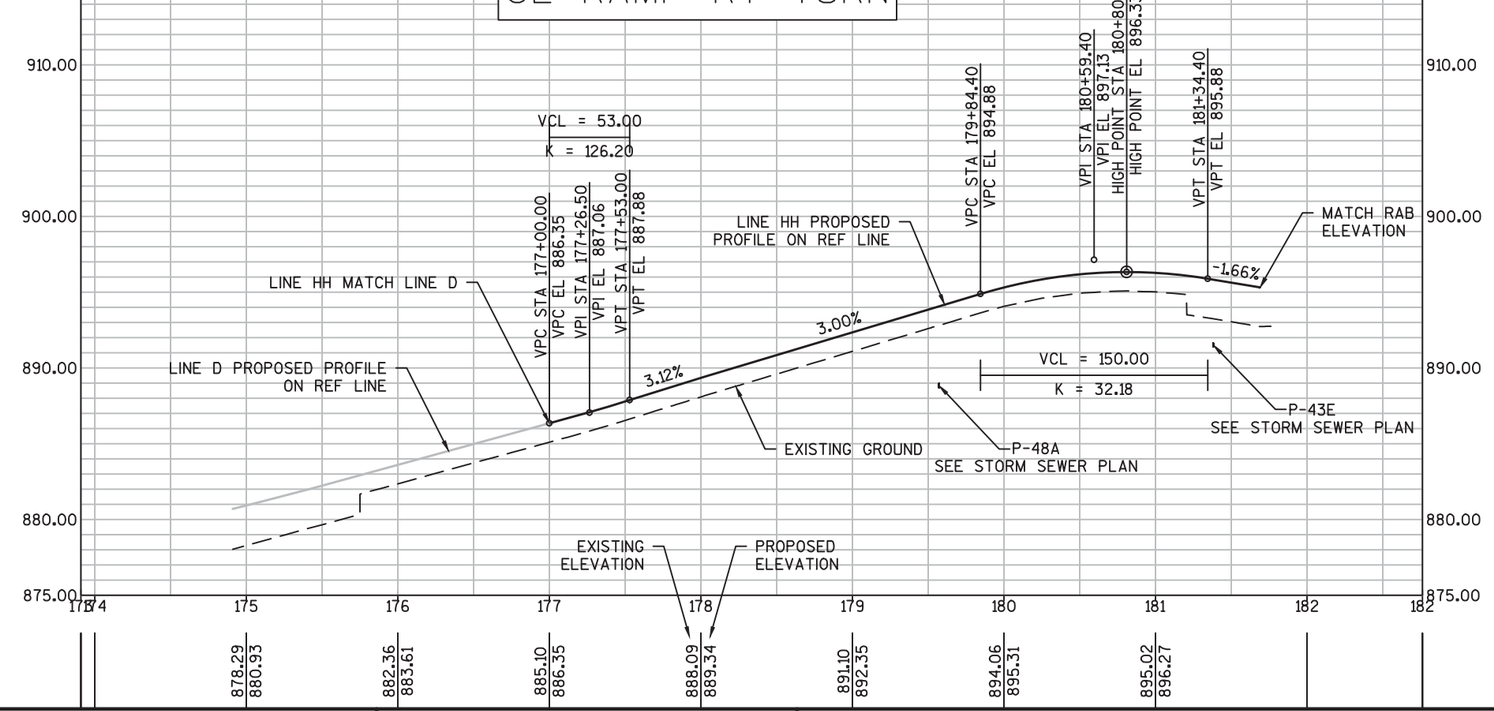
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: STH 35 EAST TERM CENTER CIRCLE	SHEET 465 E



5

5

SE RAMP RT TURN

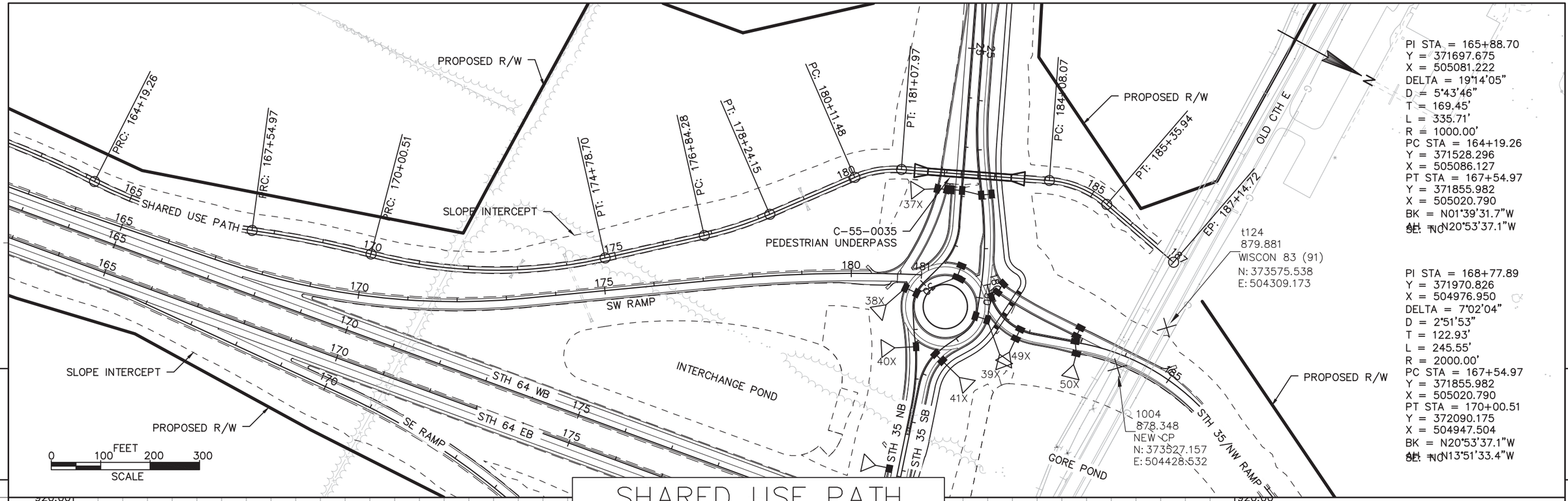


PI STA = 177+90.58
Y = 372915.377
X = 505334.405
DELTA = 12°50'31"
D = 11°27'33"
T = 56.27'
L = 112.07'
R = 500.00'
PC STA = 177+34.31
Y = 372860.751
X = 505320.904
PT STA = 178+46.38
Y = 372971.638
X = 505335.427
BK = N13°52'57.2"E
AH = N01°02'25.8"E

PI STA = 180+99.84
Y = 373225.055
X = 505340.029
DELTA = 10°49'24"
D = 7°48'21"
T = 69.53'
L = 138.65'
R = 734.00'
PC STA = 180+30.31
Y = 373155.533
X = 505338.767
PT STA = 181+68.96
Y = 373293.104
X = 505354.324
BK = N01°02'25.8"E
AH = N11°51'49.7"E

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: SE RAMP RT TURN	SHEET 466	E

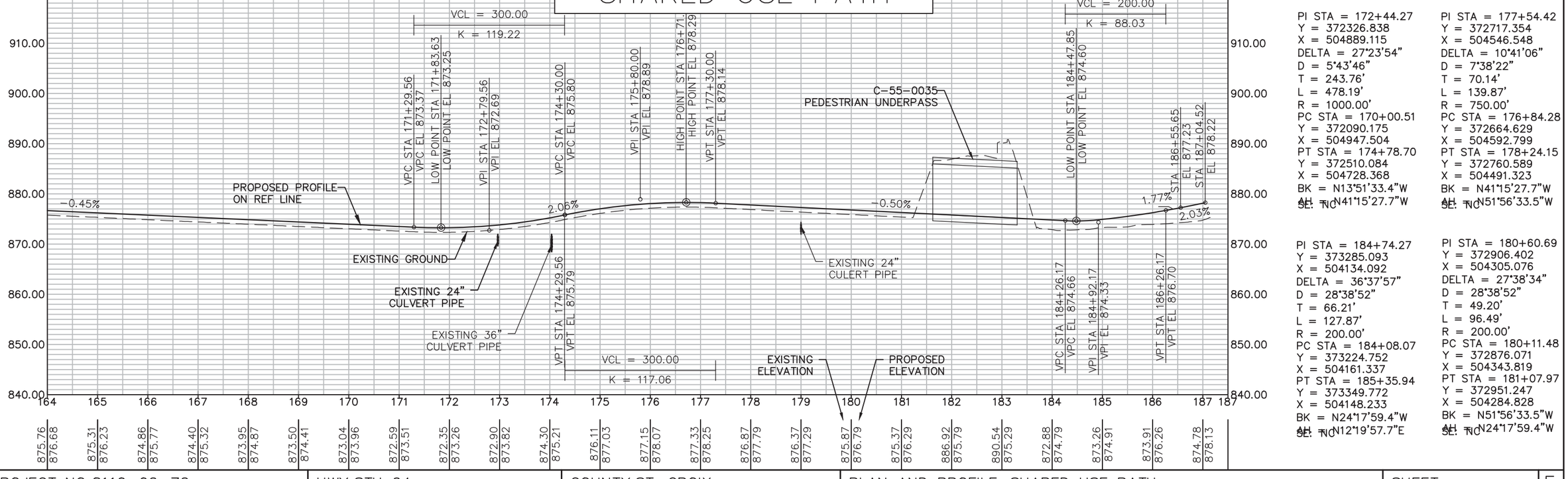
FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050143_PP_2KL41A.DWG
LAYOUT NAME - 050143_PP_2KL41A - 01
PLOT DATE : 7/31/2014 6:33 PM
PLOT BY : PETERSON, ANDREW W PLOT NAME :
PLOT SCALE : 1:100_XREF



PI STA = 165+88.70
Y = 371697.675
X = 505081.222
DELTA = 19°14'05"
D = 5°43'46"
T = 169.45'
L = 335.71'
R = 1000.00'
PC STA = 164+19.26
Y = 371528.296
X = 505086.127
PT STA = 167+54.97
Y = 371855.982
X = 505020.790
BK = N01°39'31.7"W
AH = N20°53'37.1"W
SE: NO

PI STA = 168+77.89
Y = 371970.826
X = 504976.950
DELTA = 7°02'04"
D = 2°51'53"
T = 122.93'
L = 245.55'
R = 2000.00'
PC STA = 167+54.97
Y = 371855.982
X = 505020.790
PT STA = 170+00.51
Y = 372090.175
X = 504947.504
BK = N20°53'37.1"W
AH = N13°51'33.4"W
SE: NO

SHARED USE PATH



PI STA = 172+44.27
Y = 372326.838
X = 504889.115
DELTA = 27°23'54"
D = 5°43'46"
T = 243.76'
L = 478.19'
R = 1000.00'
PC STA = 170+00.51
Y = 372090.175
X = 504947.504
PT STA = 174+78.70
Y = 372510.084
X = 504728.368
BK = N13°51'33.4"W
AH = N41°15'27.7"W
SE: NO

PI STA = 177+54.42
Y = 372717.354
X = 504546.548
DELTA = 10°41'06"
D = 7°38'22"
T = 70.14'
L = 139.87'
R = 750.00'
PC STA = 176+84.28
Y = 372664.629
X = 504592.799
PT STA = 178+24.15
Y = 372760.589
X = 504491.323
BK = N41°15'27.7"W
AH = N51°56'33.5"W
SE: NO

PI STA = 184+74.27
Y = 373285.093
X = 504134.092
DELTA = 36°37'57"
D = 28°38'52"
T = 66.21'
L = 127.87'
R = 200.00'
PC STA = 184+08.07
Y = 373224.752
X = 504161.337
PT STA = 185+35.94
Y = 373349.772
X = 504148.233
BK = N24°17'59.4"W
AH = N12°19'57.7"E
SE: NO

PI STA = 180+60.69
Y = 372906.402
X = 504305.076
DELTA = 27°38'34"
D = 28°38'52"
T = 49.20'
L = 96.49'
R = 200.00'
PC STA = 180+11.48
Y = 372876.071
X = 504343.819
PT STA = 181+07.97
Y = 372951.247
X = 504284.828
BK = N51°56'33.5"W
AH = N24°17'59.4"W
SE: NO

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: SHARED USE PATH	SHEET 467 E

SCHOOL RD

T.L.E. GILBERT
STH 35 NB
STH 35 SB
PROPOSED R/W
T.L.E. GILBERT
SLOPE INTERCEPT
PC: 10+59.62N
BP: 10+00.00N
PT: 13+15.62N
SLOPE INTERCEPT
SCHOOL ROAD
12N
14N
16N
18N
EP: 18+28.99N
OLD CTH E
T.L.E. JOYCE
PROPOSED R/W
SLOPE INTERCEPT
PROPOSED R/W
33X
34A
34X
35X
35A
35B
35C
35D

PI STA = 11+90.38
Y = 372922.680
X = 503414.405
DELTA = 28°45'37"
D = 11°14'04"
T = 130.76'
L = 256.00'
R = 510.00'
PC STA = 10+59.62
Y = 372807.832
X = 503476.915
PT STA = 13+15.62
Y = 373053.436
X = 503414.865
BK = N28°33'31.1"W
AH = N00°12'05.8"E
SE = 4.8%

0 100 200 300 FEET
SCALE

VCL = 200.00
K = 84.04
VCL = 310.00
K = 93.45

STA 10+31.00 EL 885.97
VPC STA 10+70.44 VPC EL 886.51
VPI STA 12+25.44 VPI EL 888.65
VPT STA 13+80.44 VPT EL 885.65
LOW POINT STA 17+32.97 LOW POINT EL 880.39
STA 18+20.70 EL 880.70
STA 10+04.00 EL 885.32
HIGH POINT STA 11+99.40 HIGH POINT EL 887.40
VPC STA 15+70.17 VPC EL 881.97
VPI STA 16+70.17 VPI EL 880.03
VPT STA 17+70.17 VPT EL 880.48
2.38%
1.38%
1.94%
0.44%
PROPOSED PROFILE ON REF LINE
EXISTING GROUND
EXISTING ELEVATION
PROPOSED ELEVATION

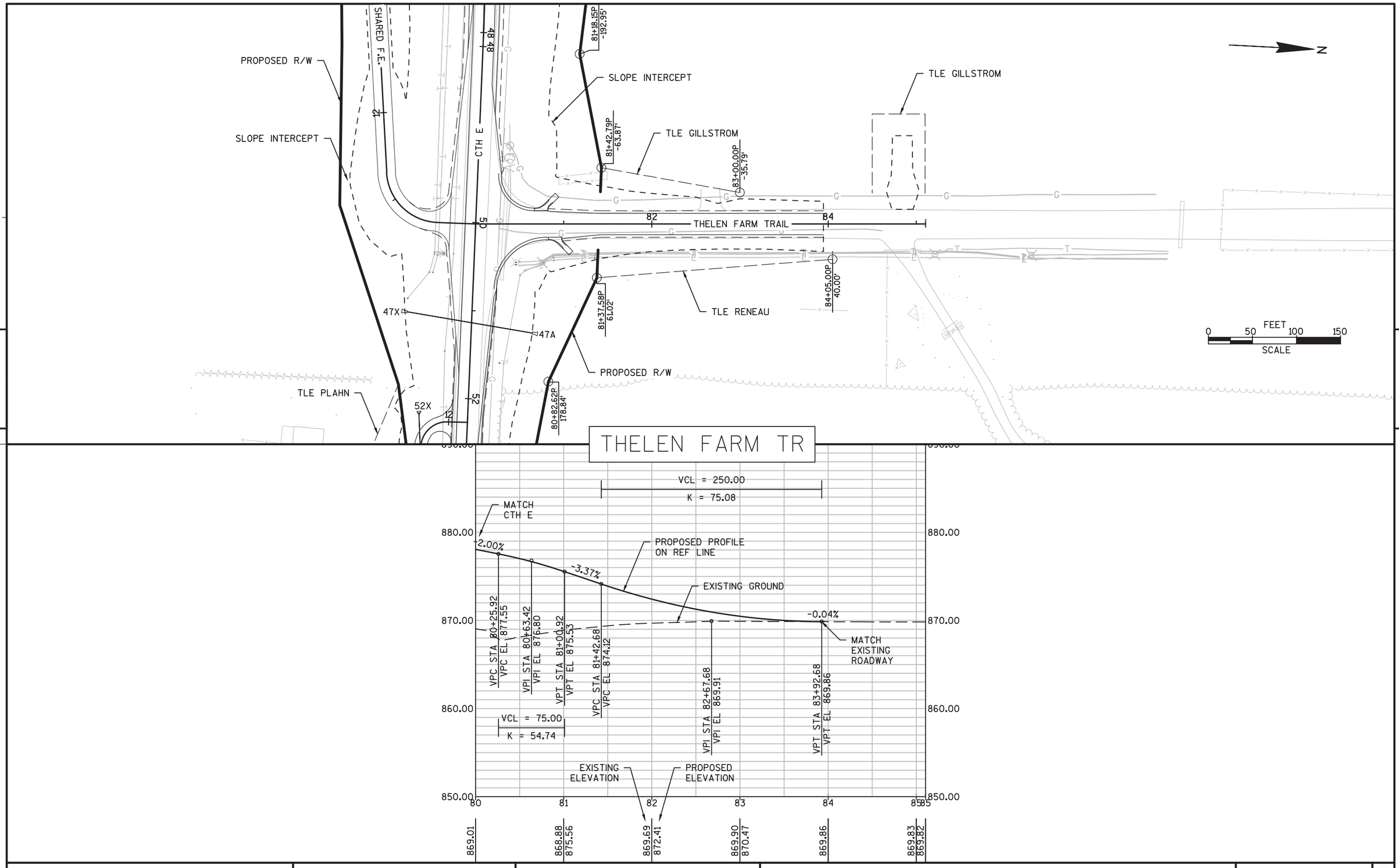
900.00
890.00
880.00
870.00
865.00
10 11 12 13 14 15 16 17 18 19

881.26
883.19 886.87
883.86 887.40
884.25 886.86
883.58 885.27
881.44 883.33
880.58 881.45
879.80 880.46
879.16 880.61

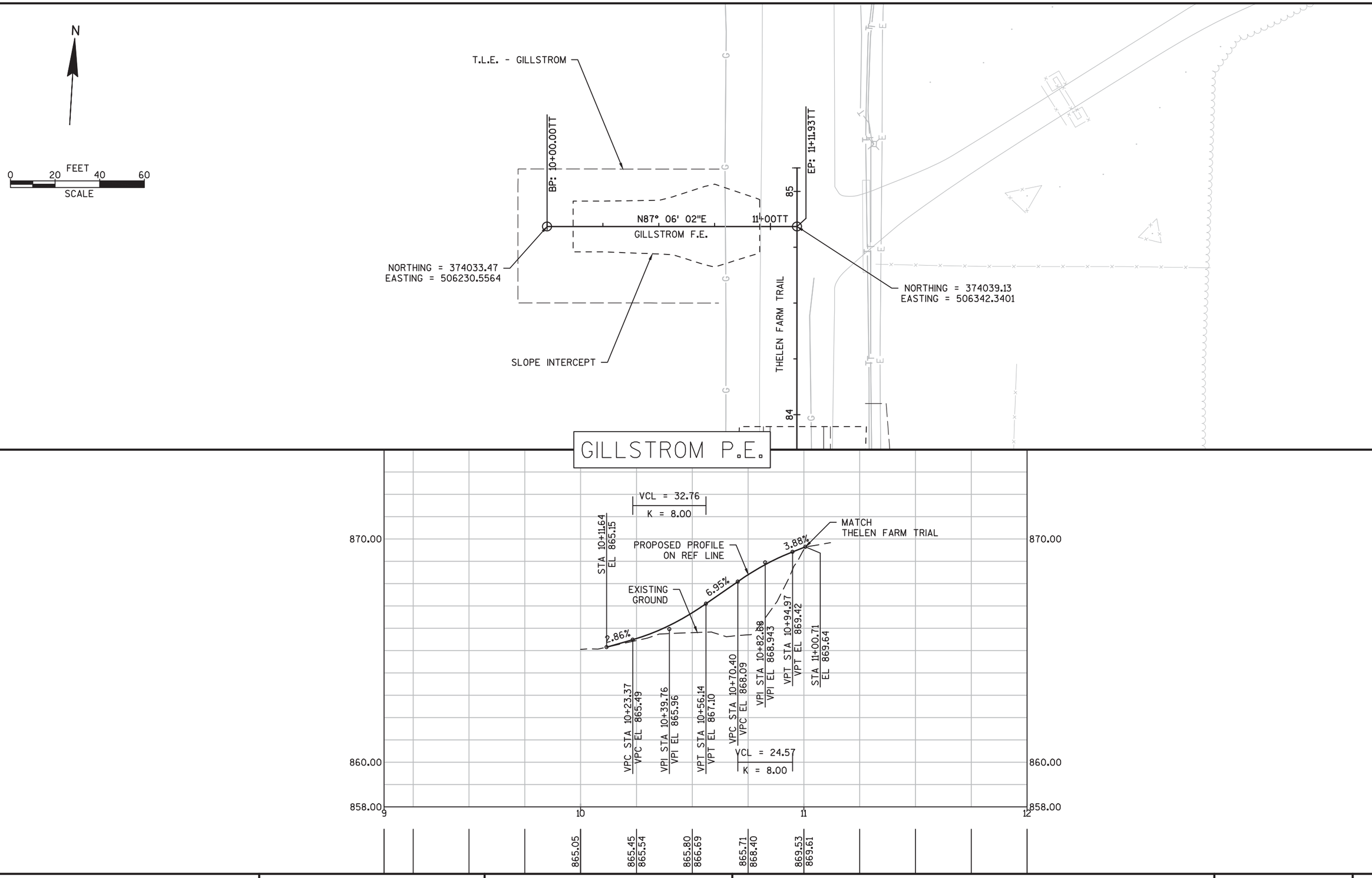
PROJECT NO:8110-02-72	HWY:STH 64	COUNTY:ST. CROIX	PLAN AND PROFILE: SCHOOL ROAD	SHEET 468 E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050170_PP_SCHOOLRD_72.DWG PLOT DATE : 8/1/2014 8:09 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : _____ PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: THELEN FARM TRAIL	SHEET 469	E

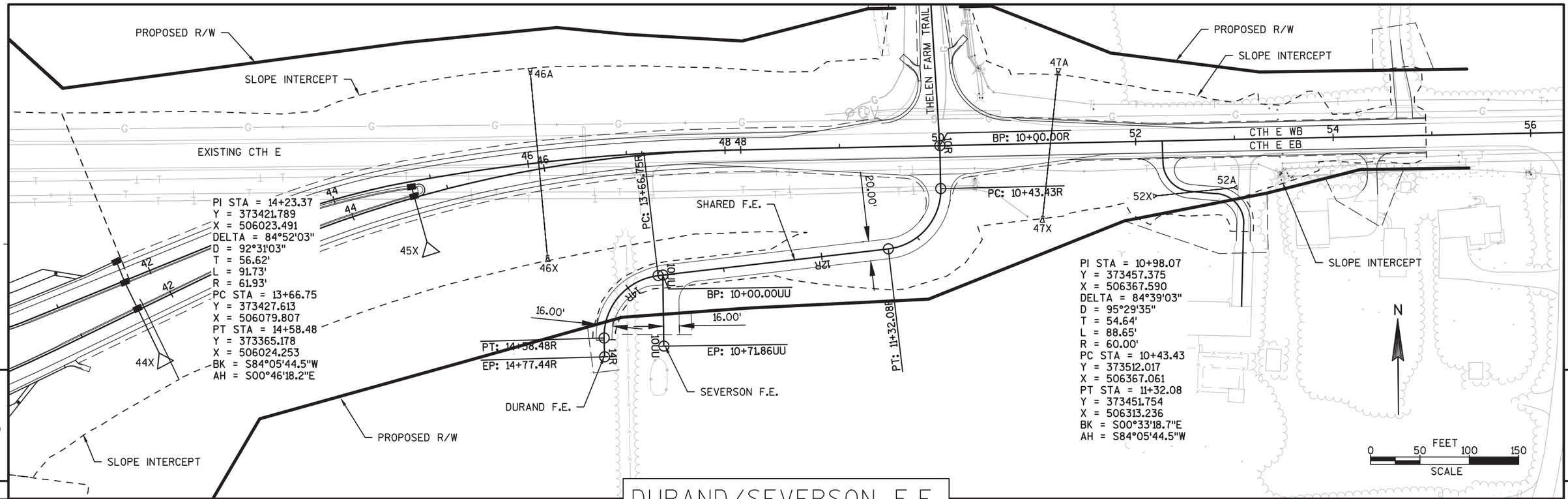


5

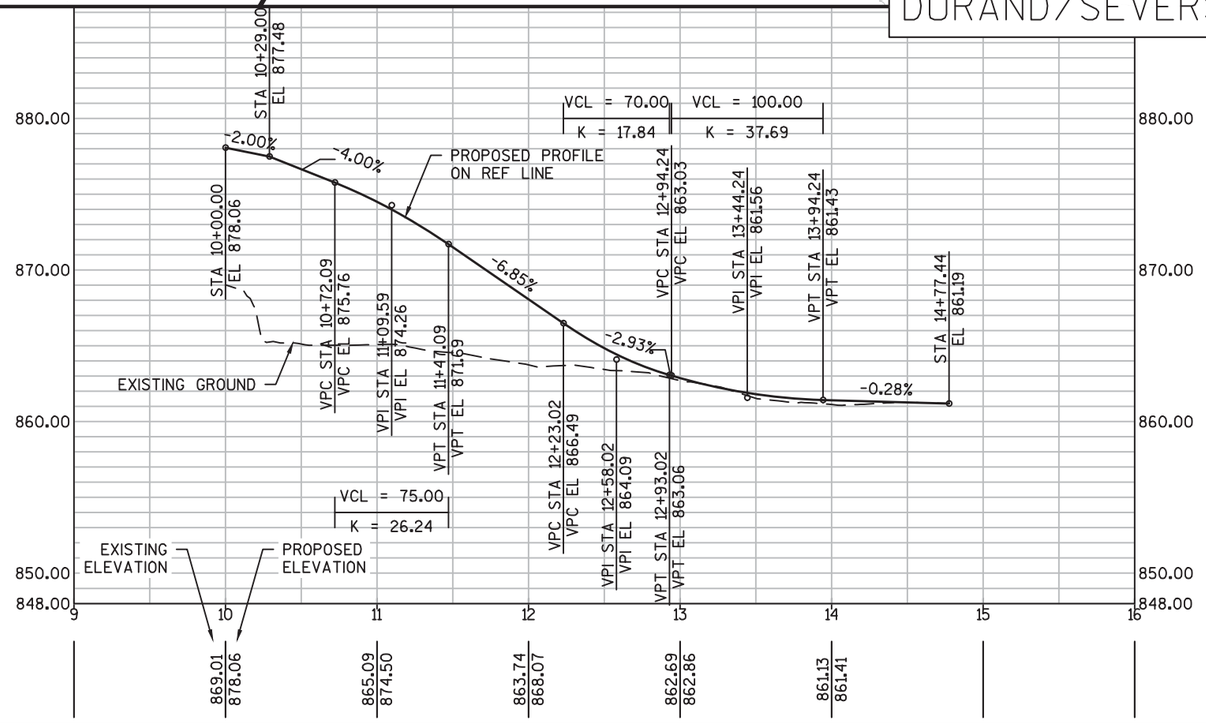
5

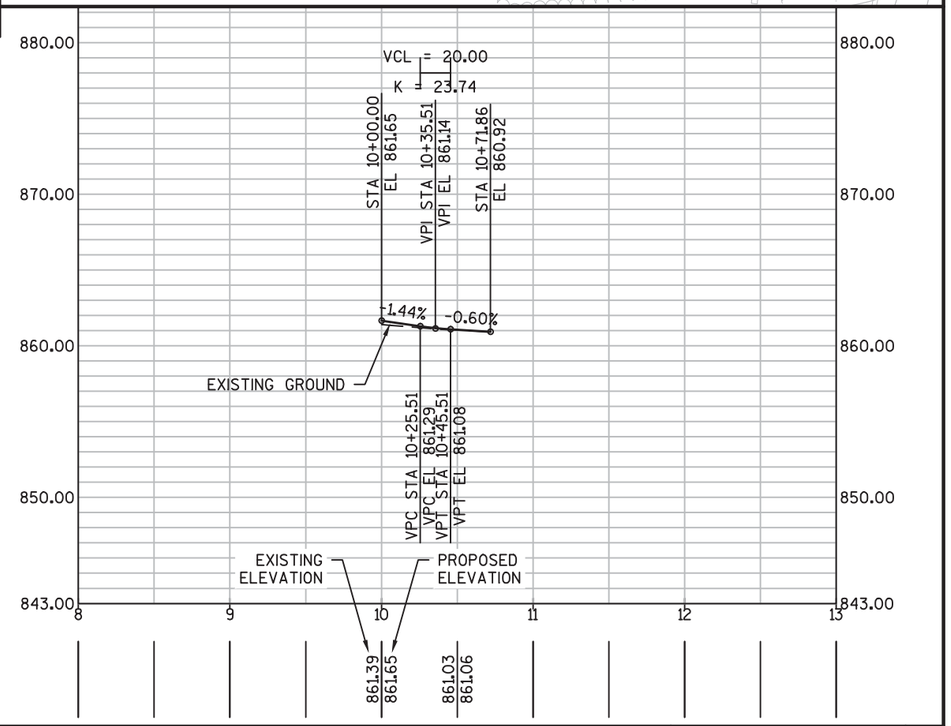
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: GILLSTROM P.E.	SHEET 470	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050199_PP_34-GILLSTROM_72.DWG
LAYOUT NAME - 01
PLOT DATE : 8/4/2014 2:44 PM
PLOT BY : PETERSON, ANDREW W PLOT NAME :
PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 44



DURAND/SEVERSON F.E.





PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: DURAND/SEVERSON F.E.	SHEET 471	E

PI STA = 11+11.44
Y = 373500.380
X = 506674.524
DELTA = 86°28'15"
D = 190°59'09"
T = 28.21'
L = 45.28'
R = 30.00'
PC STA = 10+83.23
Y = 373472.196
X = 506673.387
PT STA = 11+28.51
Y = 373503.250
X = 506646.463
BK = N02°18'33.2"E
AH = N84°09'42.1"W
SE: NC

11+78.80SS
-61.36'
SLOPE INTERCEPT
PLAHN RETAINING WALL
52X
12+00SS
12+21SS
SENTIMENTAL TREE
PC: 11+55.73SS
10+52.86SS
-24.33'
PT: 11+28.51SS
SENTIMENTAL TREE
52A
10+00SS
11+00SS
PT: 11+99.02SS
CTH E
EP: 12+21.30SS
BP: 10+00.00SS
TLE - PLAHN
10+55.31SS
25.61'
PC: 10+83.23SS
10+99.95SS
31.53'
PROPOSED R/W

NOTE:
ALIGNMENT HORIZONTAL
CURVES = 30' RADIUS

PI STA = 11+82.12
Y = 373508.703
X = 506593.133
DELTA = 82°40'31"
D = 190°59'09"
T = 26.39'
L = 43.29'
R = 30.00'
PC STA = 11+55.73
Y = 373506.018
X = 506619.386
PT STA = 11+99.02
Y = 373535.084
X = 506592.448
BK = N84°09'42.1"W
AH = N01°29'10.7"W
SE: NC

STRUCTURE: 52X
11+77.79SS 20.64LT
875.26

STRUCTURE: 52A
11+15.59SS 11.51RT
875.86

SLOPE INTERCEPT
PROPOSED R/W

N

0 25 50 75 FEET
SCALE

PLAHN P.E.

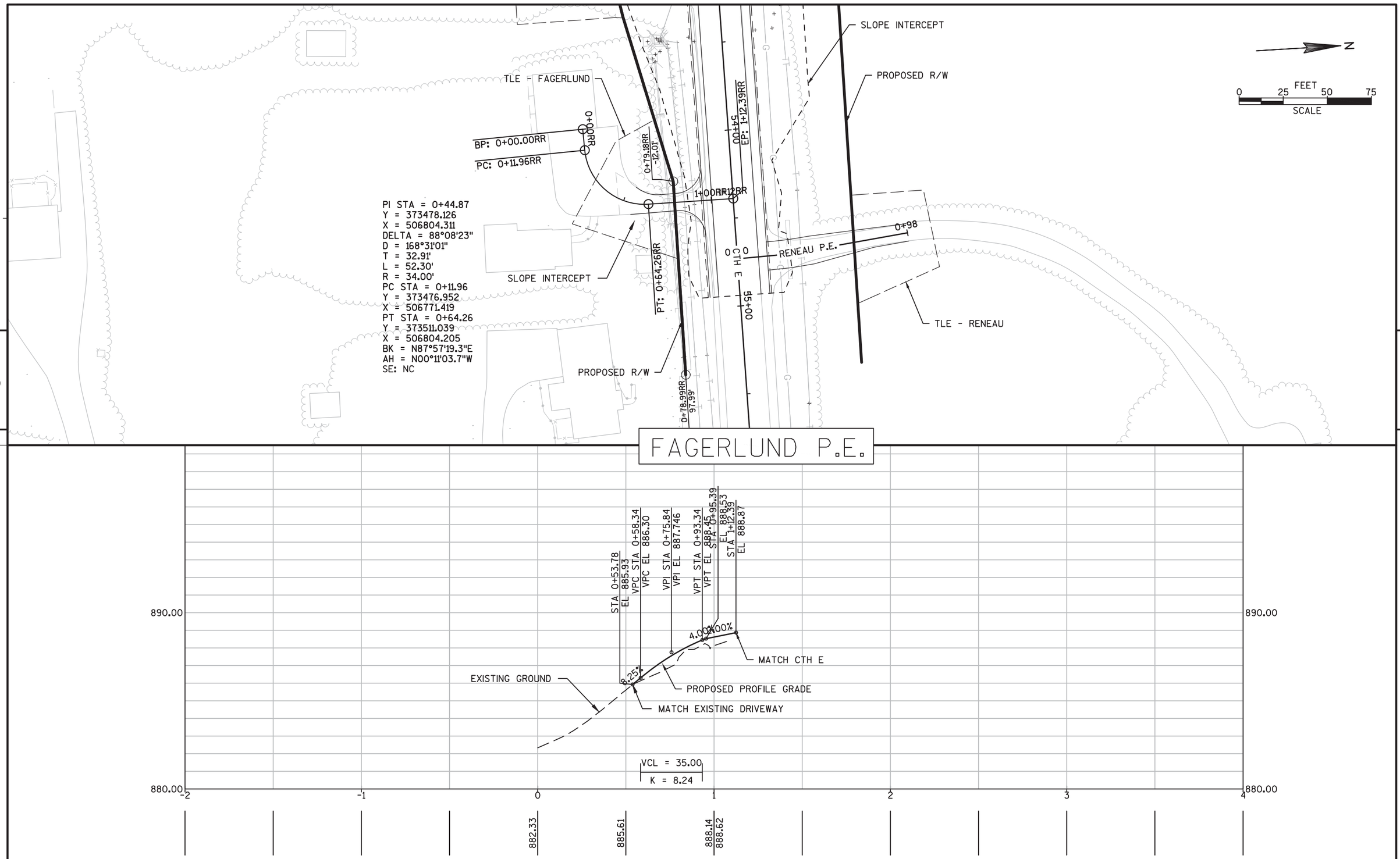
880.00
870.00

STA 10+75.72
EL 875.48
VPC STA 11+13.63
VPC EL 877.18
VPI STA 11+51.13
VPI EL 878.87
VPT STA 11+88.63
VPT EL 879.81
STA 12+04.30
EL 880.20
STA 12+21.30
EL 880.54
STA 12+09.30
EL 880.30
MATCH EXISTING DRIVEWAY
MATCH CTH E
PROPOSED PROFILE
ON REF LINE
EXISTING GROUND
VCL = 75.00
K = 37.55
EXISTING GROUND
PROPOSED GROUND

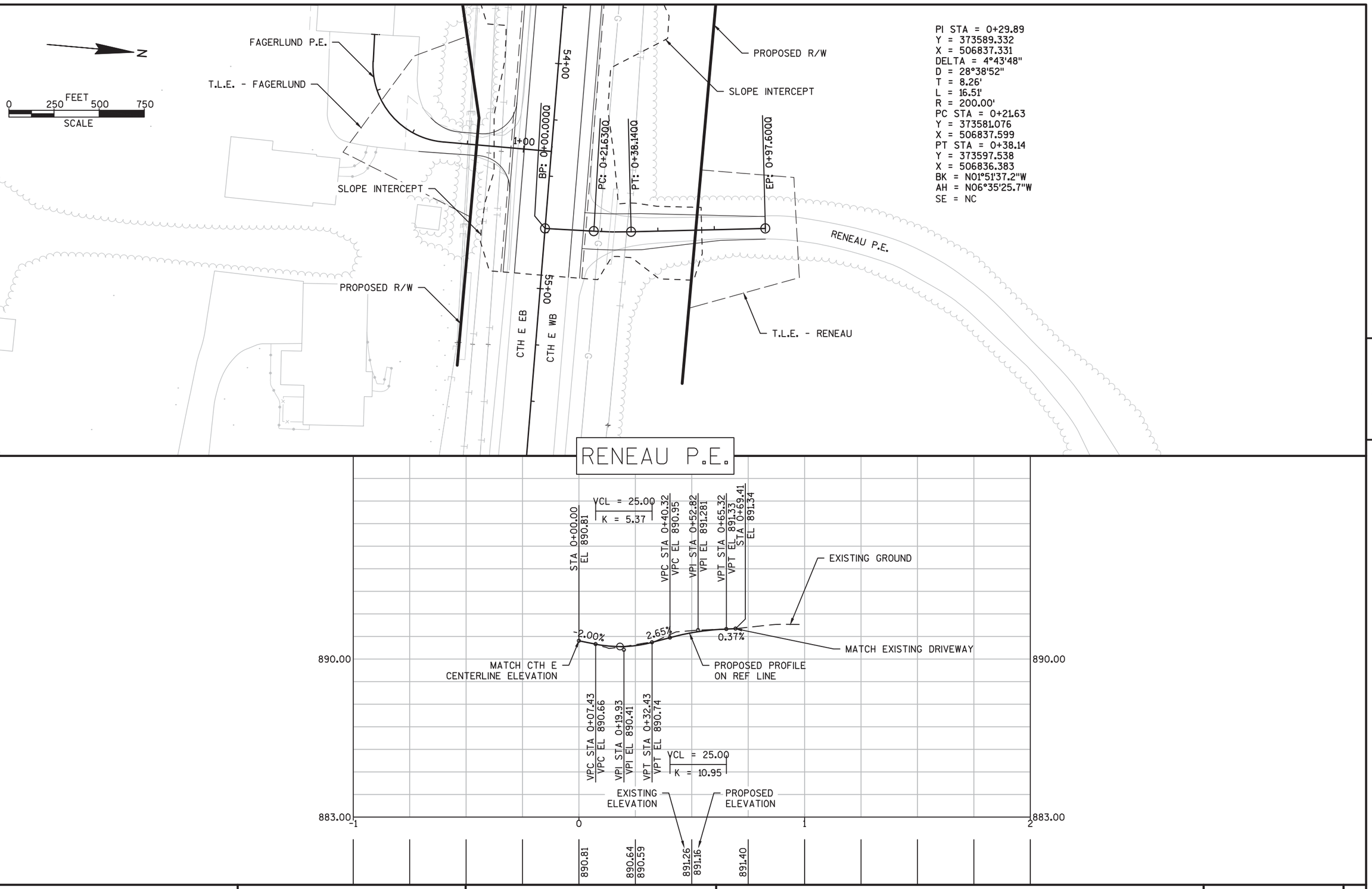
8 9 10 11 12 13 14 15

876.43
876.57
872.91
880.09

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: PLAHN PRIVATE ENTRANCE	SHEET 472	E

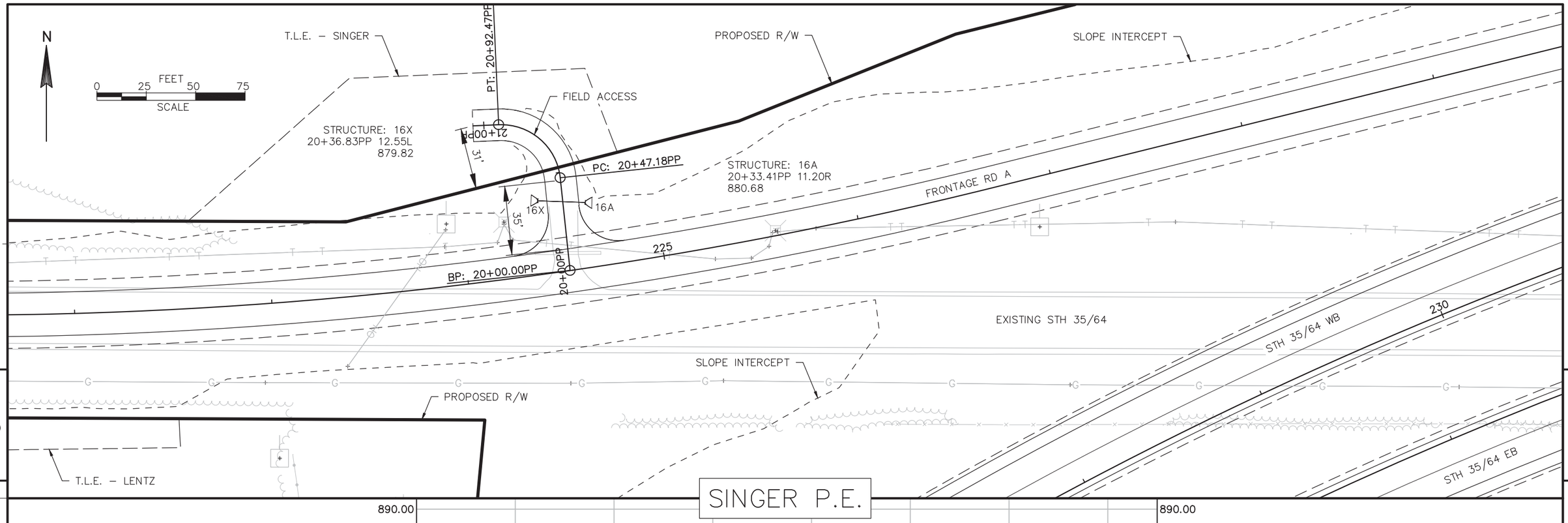


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: FAGERLUND PRIVATE ENTRANCE	SHEET 473	E



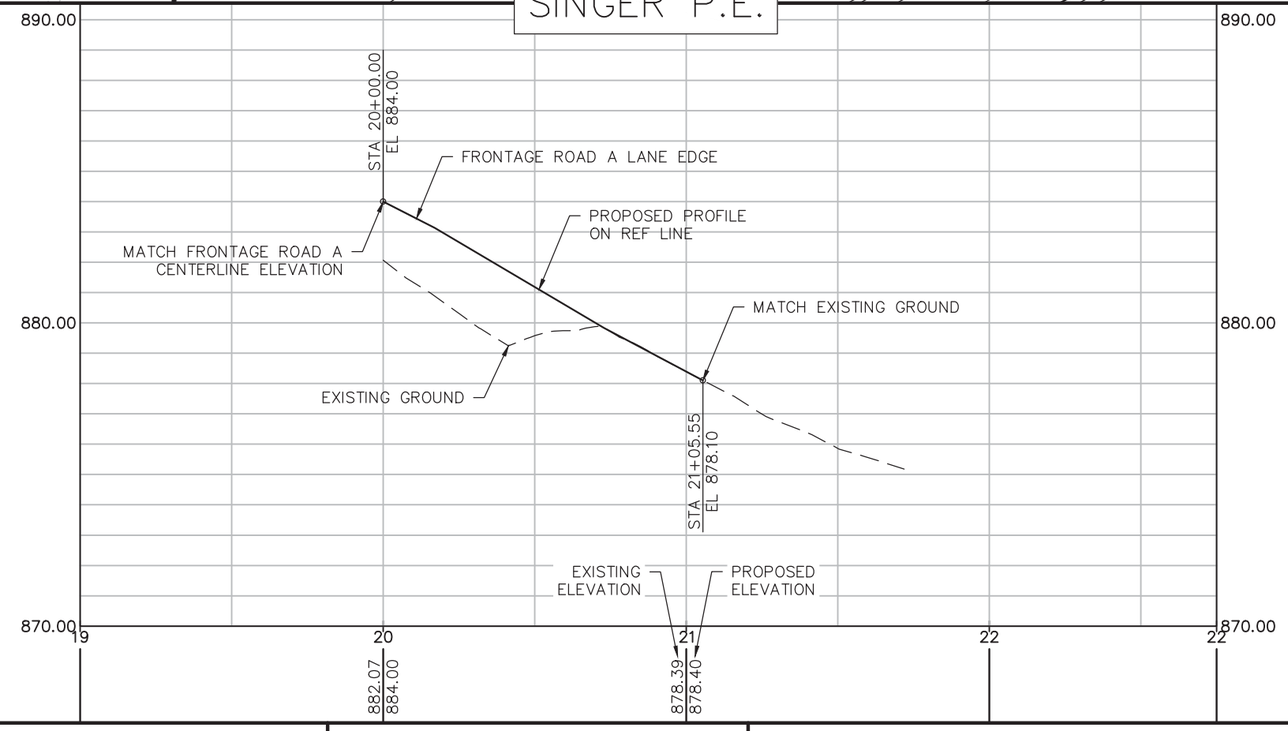
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: RENEAU P.E.	SHEET 474	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050199_PP_27-RENEAU_72.DWG
LAYOUT NAME - 050199_PP_27-RENEAU_72 - 01
PLOT DATE : 8/4/2014 11:18 AM PLOT BY : PETERSON, ANDREW W PLOT NAME :
PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 44

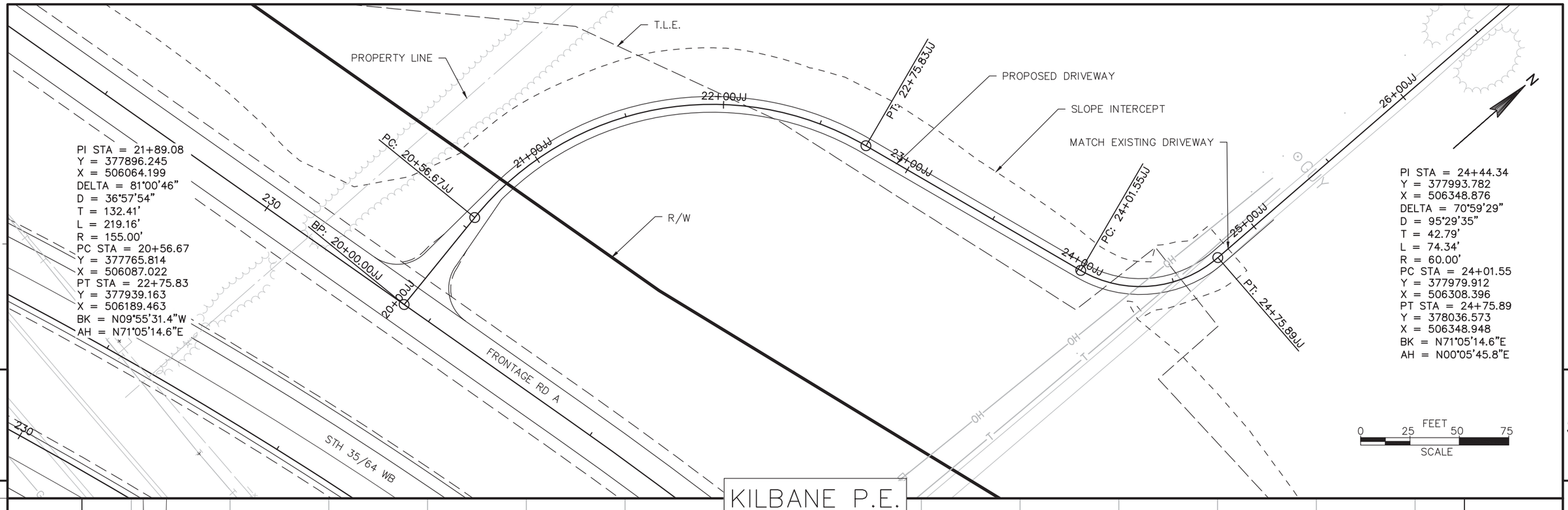


SINGER P.E.

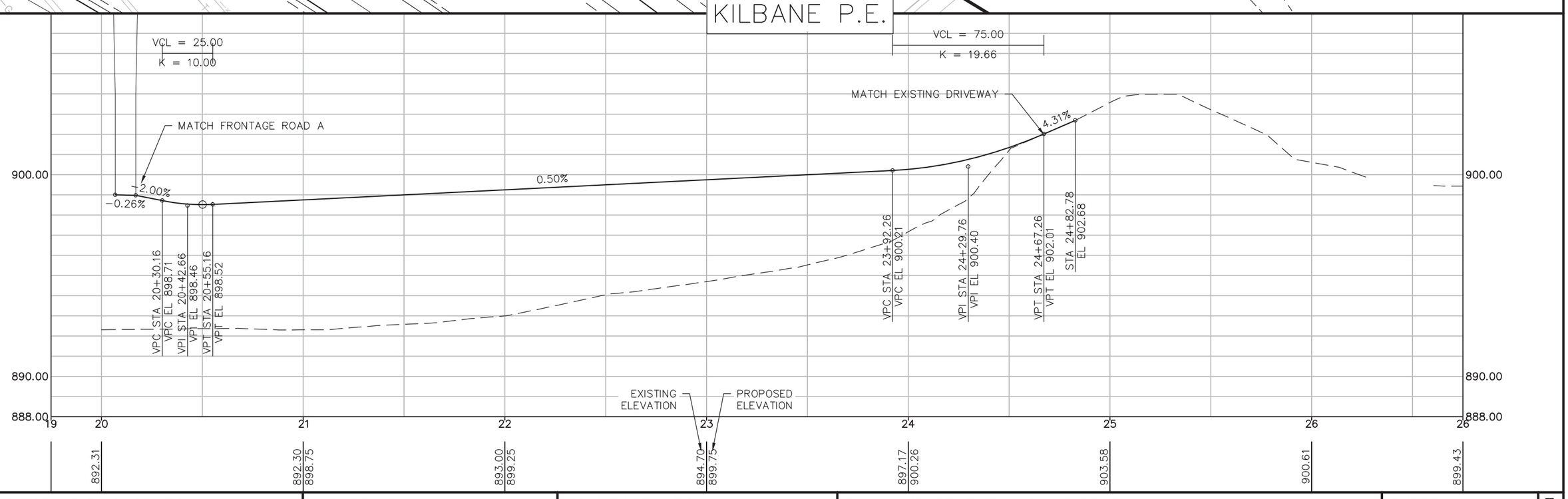
PI STA = 20+75.40
Y = 377643.231
X = 505472.082
DELTA = 86°29'50"
D = 190°59'09"
T = 28.22'
L = 45.29'
R = 30.00'
PC STA = 20+47.18
Y = 377615.167
X = 505475.046
PT STA = 20+92.47
Y = 377641.988
X = 505443.890
BK = N06°01'39.5"W
AH = S87°28'30.1"W
SE = 3%



PROJECT NO: 8110–02–72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: SINGER P.E.	SHEET 475	E

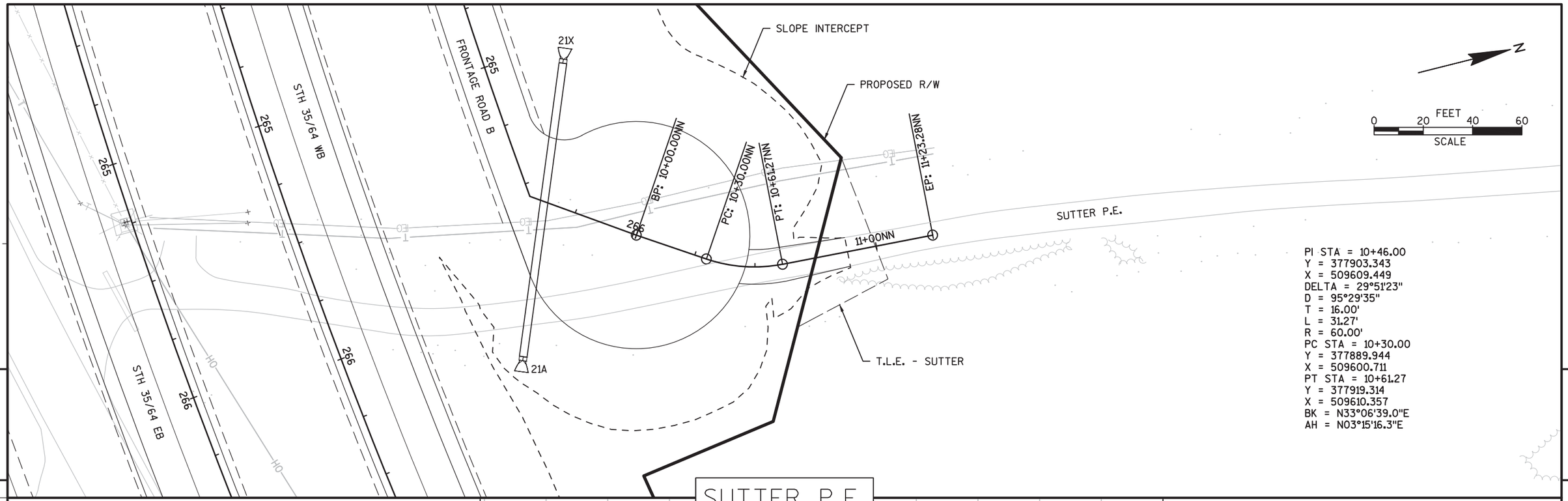


KILBANE P.E.

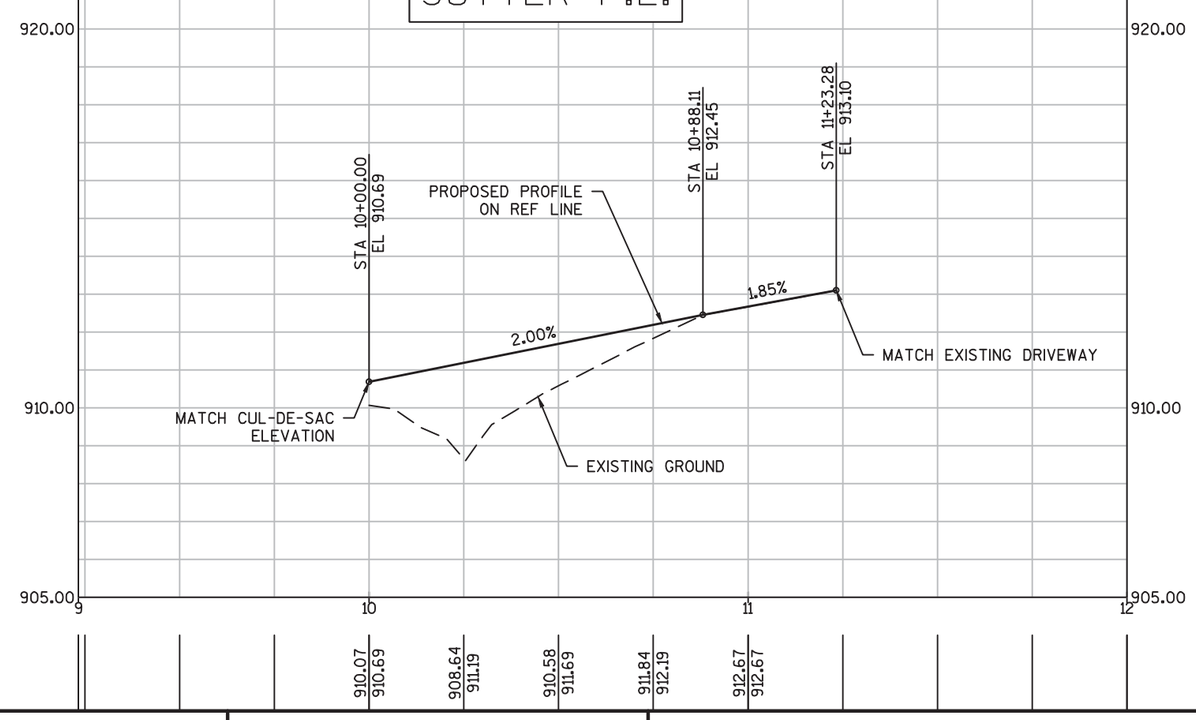


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: KILBANE DRIVEWAY	SHEET 476	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050199_PP_37-KILBANE_72.DWG
81100272_PLANSHTS - 050199_PP_37-KILBANE_72 - 050101
PLOT DATE : 8/1/2014 8:46 AM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1" = 50'_XREF
WISDOT/CADDS SHEET 44



SUTTER P.E.



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: SUTTER P.E.	SHEET 477	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050199_PP_47-SUTTER_72.DWG
LAYOUT NAME - SHEET - (1)

PLOT DATE : 8/4/2014 1:57 PM PLOT BY : PETERSON, ANDREW W PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 44

SLOPE INTERCEPT

STH 35/64 WB

STH 35/64 EB

FRONTAGE ROAD C

T.L.E. - DALTON

DALTON P.E.

PROPOSED R/W

SLOPE INTERCEPT

BP: 0+00.00LL

PC: 0+41.68LL

PT: 0+72.78LL

PC: 0+82.70LL

PT: 1+17.61LL

EP: 1+27.23LL

1+00LL

PC: 0+61.40LL

PT: 0+30.54LL

N

0 20 40 60 FEET

SCALE

PI STA = 0+16.40
Y = 377569.284
X = 509649.102
DELTA = 33°23'32"
D = 114°35'30"
T = 15.00'
L = 29.14'
R = 50.00'
PC STA = 0+01.40
Y = 377583.671
X = 509644.868
PT STA = 0+30.54
Y = 377559.602
X = 509660.555
BK = S16°23'57.7"E
AH = S49°47'29.9"E

PI STA = 0+57.46
Y = 377542.228
X = 509681.109
DELTA = 23°45'29"
D = 76°23'40"
T = 15.78'
L = 31.10'
R = 75.00'
PC STA = 0+41.68
Y = 377552.413
X = 509669.061
PT STA = 0+72.78
Y = 377528.052
X = 509688.033
BK = S49°47'29.9"E
AH = S26°02'01.3"E

PI STA = 1+00.48
Y = 377503.166
X = 509700.190
DELTA = 26°40'04"
D = 76°23'40"
T = 17.78'
L = 34.91'
R = 75.00'
PC STA = 0+82.70
Y = 377519.138
X = 509692.388
PT STA = 1+17.61
Y = 377485.391
X = 509699.993
BK = S26°02'01.3"E
AH = S00°38'02.8"W

DALTON P.E.

VCL = 38.27
K = 3.44

VCL = 40.00
K = 7.83

STA 0+00.00 EL 909.75
STA 0+11.12 EL 909.53
STA 0+18.01 EL 909.36
STA 0+22.61 EL 909.28
VPC STA 0+28.23 VPC EL 909.24
LOW POINT STA 0+28.23 LOW POINT EL 909.24
VPI STA 0+41.75 VPI EL 908.97
VPT STA 0+60.88 VPT EL 910.79
VPC STA 0+76.50 VPC EL 912.27
VPI STA 0+96.50 VPI EL 914.171
VPT STA 1+16.50 VPT EL 915.05
STA 1+17.66 EL 915.10

-1.97%
-1.63%
-2.51%
9.50%
4.39%

PROPOSED PROFILE ON REF LINE

EXISTING GROUND

MATCH EXISTING DRIVEWAY

EXISTING ELEVATION

PROPOSED ELEVATION

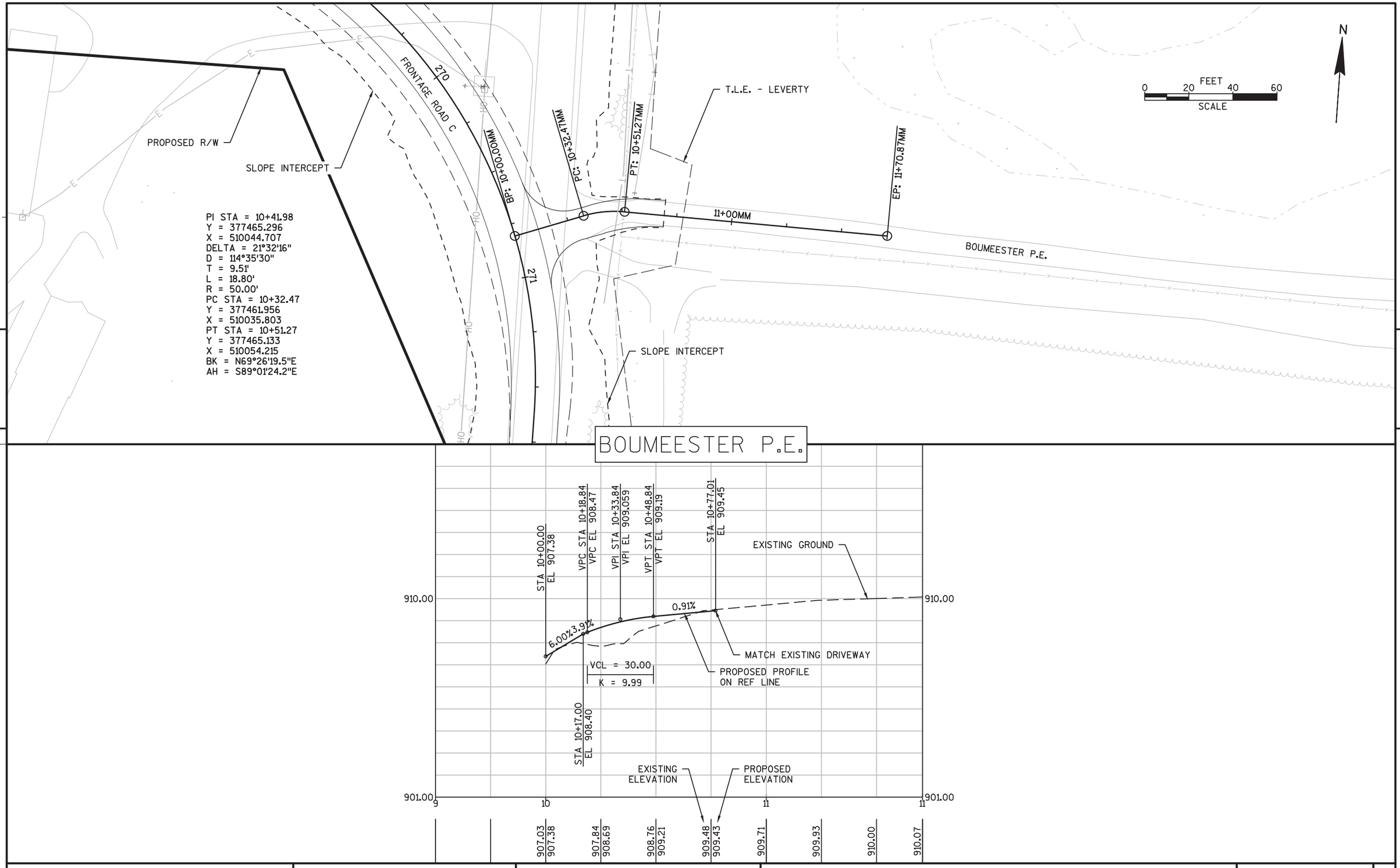
910.00

901.00

0 1 2

909.21 909.75
909.54 909.25
910.49 909.93
912.34 912.13
914.43 914.15

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: DALTON P.E.	SHEET 478	E



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	PLAN AND PROFILE: BOUMEESTER P.E.	SHEET 479	E

FILE NAME : N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\050199_PP_45-BOUMEESTER_72.DWG
LAYOUT NAME - SHEET - (1)
PLOT DATE : 8/4/2014 1:22 PM
PLOT BY : PETERSON, ANDREW W PLOT NAME :
PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

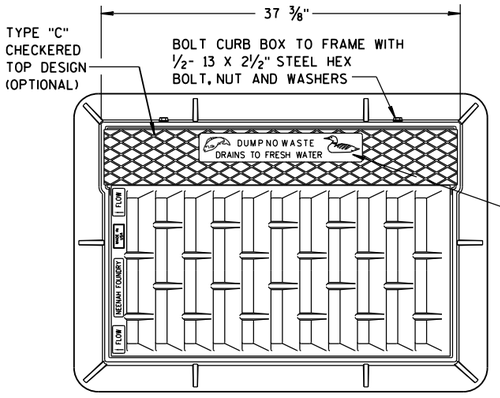
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D02-06	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-15A	CURB RAMPS TYPES 1 AND 1-A
08D05-15B	CURB RAMPS TYPES 2 AND 3
08D05-15C	CURB RAMPS TYPES 4A AND 4A1
08D05-15D	CURB RAMPS TYPE 4B AND 4B1
08D05-15E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
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
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-07	CONDUIT
09B04-10	PULL BOX
09C03-03	TRANSFORMER/PEDESTAL BASES
09C05-08	CONCRETE CONTROL CABINET BASES
09C07-04	CONCRETE BASE, TYPE 6
09C14-01	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-04	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-02	SIGNAL OR LIGHTING CONTROL CABINET
09D04-01	LIGHTING CONTROL CABINET
09E01-12E	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6 (35 FEET)
09E01-12G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-04	NON-FREEWAY LIGHTING UNIT POLE WIRING
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13A03-05	CONCRETE PAVEMENT SHOULDERS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13B02-07A	CONCRETE BRIDGE APPROACH
13B02-07B	STRUCTURAL APPROACH SLAB AND CONCRETE BRIDGE APPROACH
13C01-16	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-11A	RURAL DOWELED CONCRETE PAVEMENT
13C11-11B	RURAL DOWELED CONCRETE PAVEMENT
13C18-02A	CONCRETE PAVEMENT JOINTING
13C18-02B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-02C	CONCRETE PAVEMENT JOINT TIES
13C18-02D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-02E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-01A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B26-03A	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03B	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03C	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03D	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-03E	STEEL THRIE BEAM BULLNOSE TERMINAL
14B28-03	GUARDRAIL MOW STRIP

6

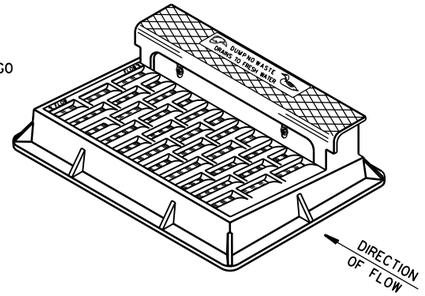
Standard Detail Drawing List

14B32-03A	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-03B	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-03C	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-03D	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-03E	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B33-01G	CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR
14B33-01H	CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12A	PAVEMENT MARKING SYMBOLS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDABOUT ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C11-05	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C29-03A	BICYCLE LANE MARKING
15C29-03B	BICYCLE LANE MARKING
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D05-03	TRAFFIC CONTROL, SINGLE LANE CROSSOVER ENTRANCE WITH BARRIER
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D11-04	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-04	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-01	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-03	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D31-02	TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY

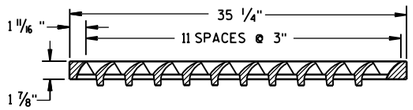
6

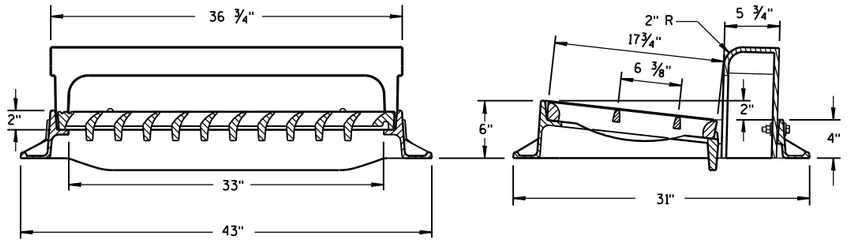


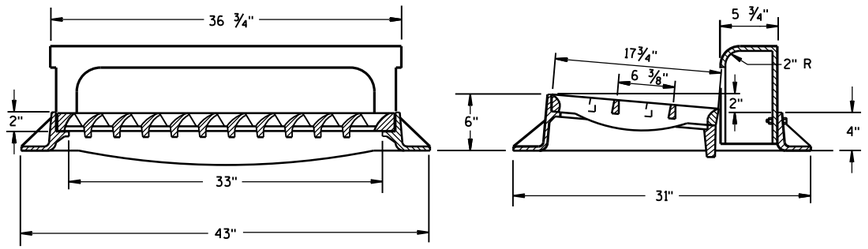
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

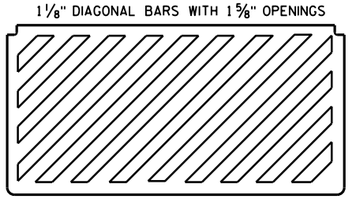






TYPE "H"

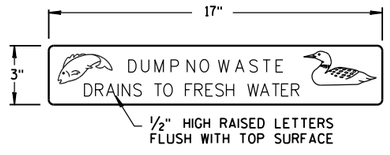
NOTE: EITHER CASTING IS ACCEPTABLE



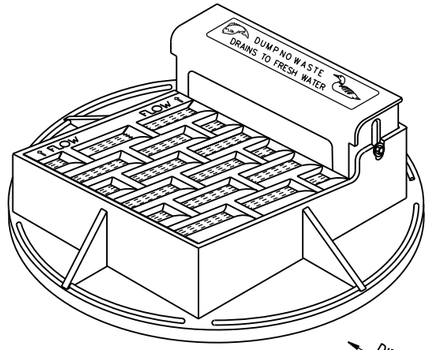
SPECIAL GRATE FOR TYPE "H" COVER

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

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

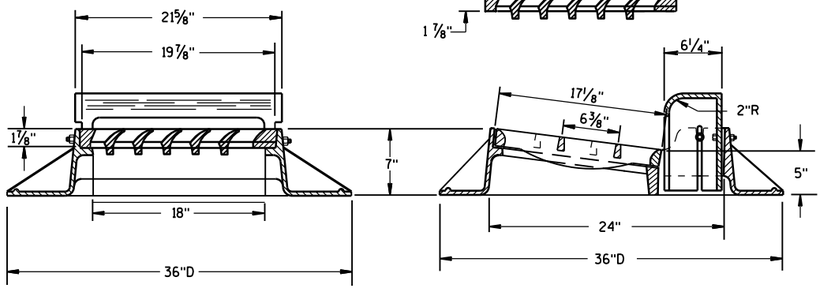


LOGO DETAIL

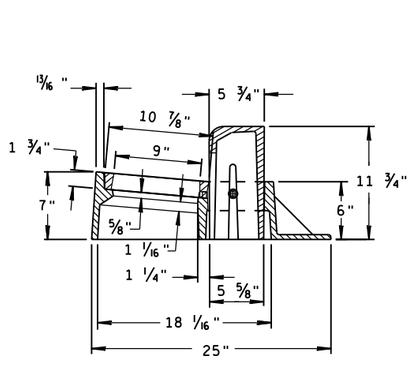


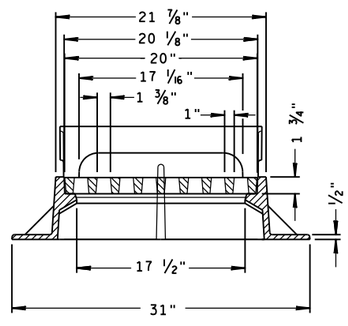
NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



TYPE "A"





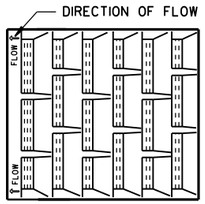
TYPE "Z"

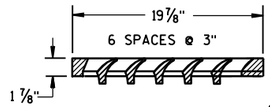
GENERAL NOTES

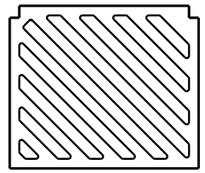
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



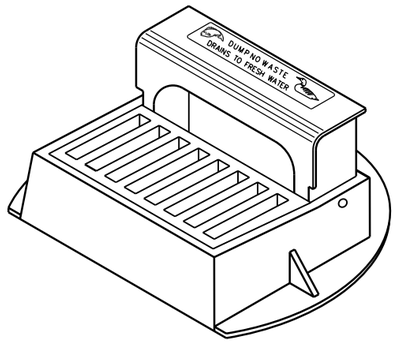




SPECIAL GRATE FOR TYPE "A" COVER

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

(NOTED AS TYPE A-S ON DRAINAGE TABLE)



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

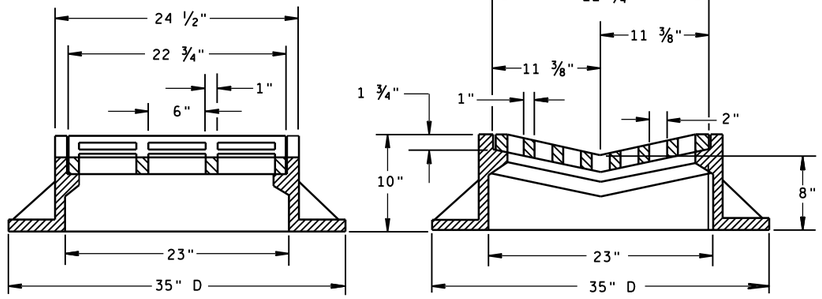
APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

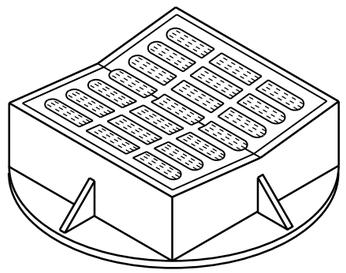
6

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

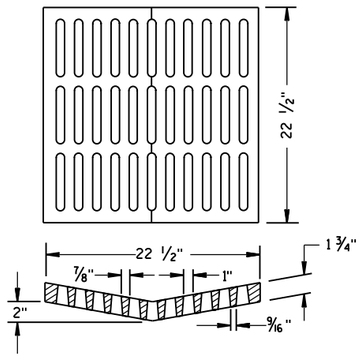
6

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



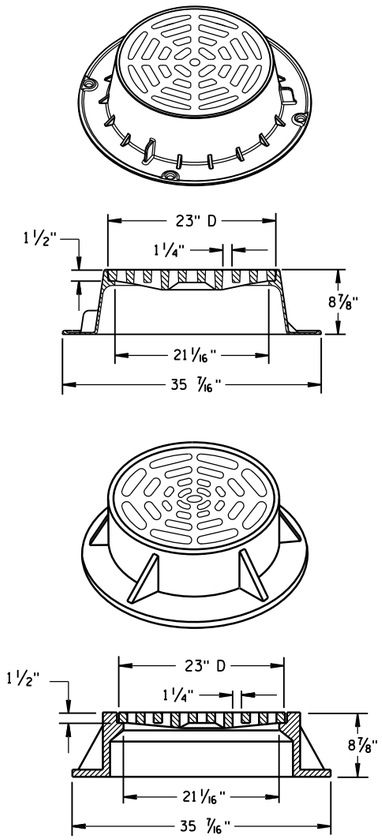


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

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



TYPE "C"

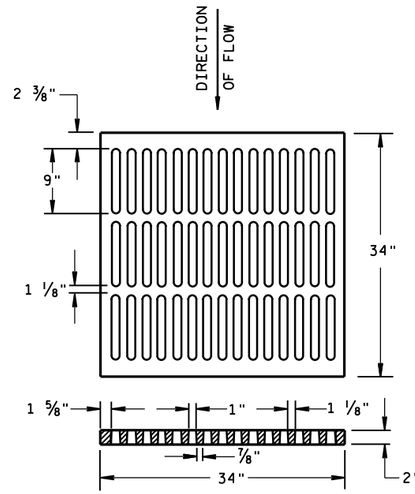
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

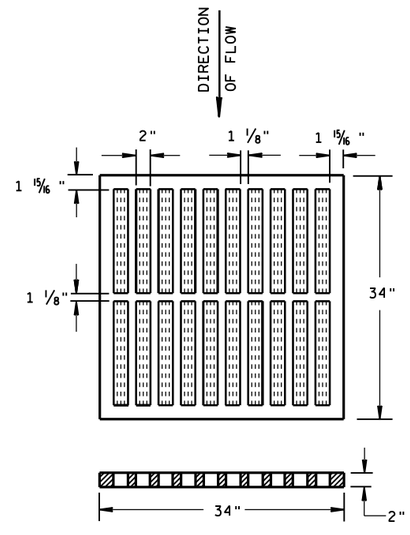
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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



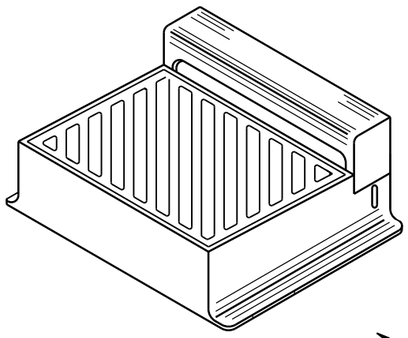
ALTERNATIVE TYPE "MS"

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

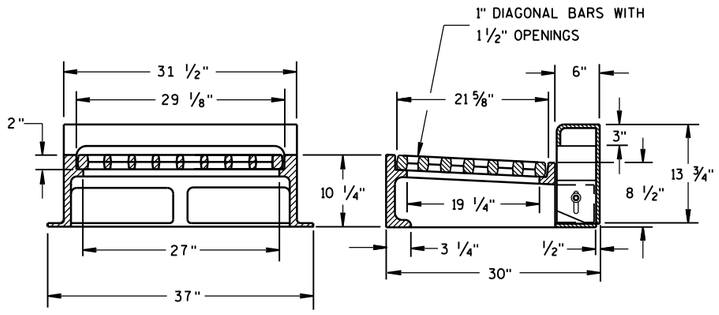


TYPE "MS"

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



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



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

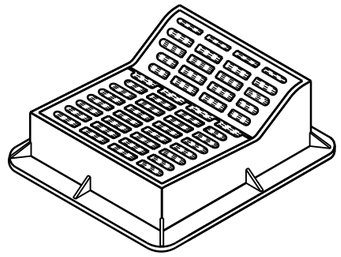
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

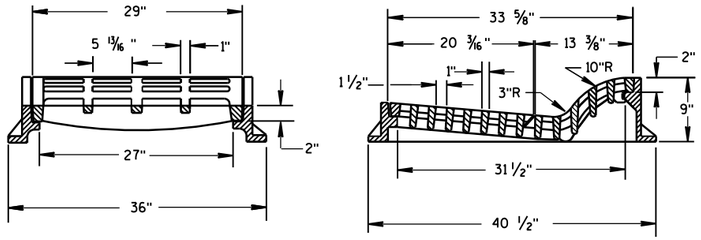
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

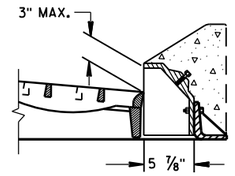
S.D.D. 8 A 5-19b





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

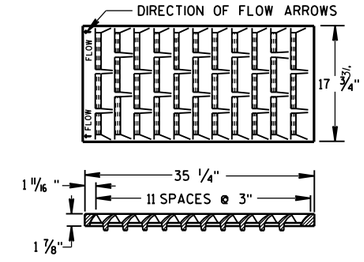
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

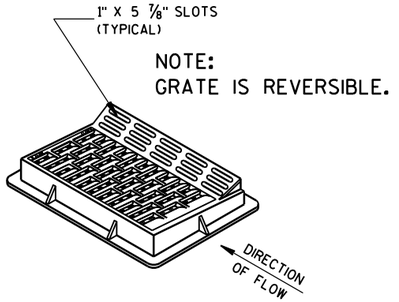
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

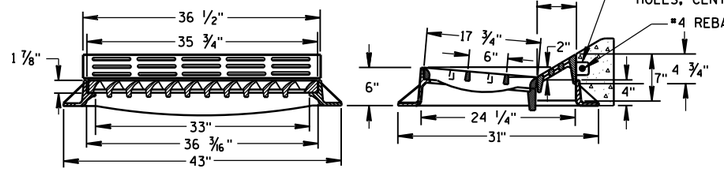
GENERAL NOTES

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

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



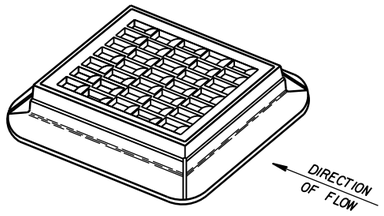


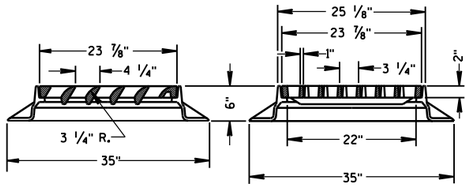


TYPE "HM"

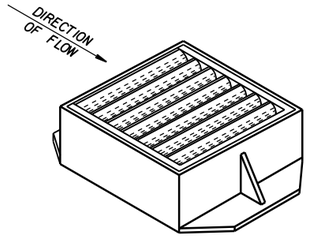
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

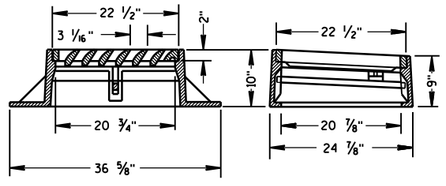
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



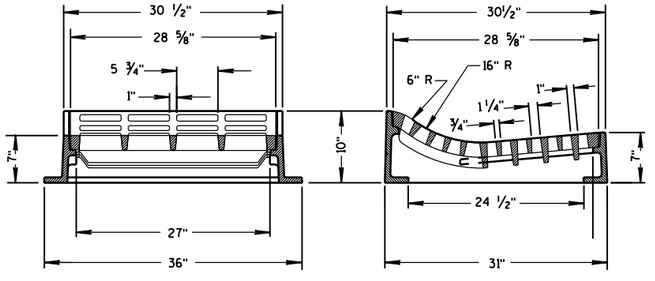


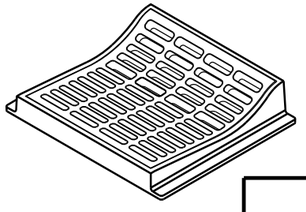
TYPE "S"





TYPE "V"





TYPE "T"

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

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

484

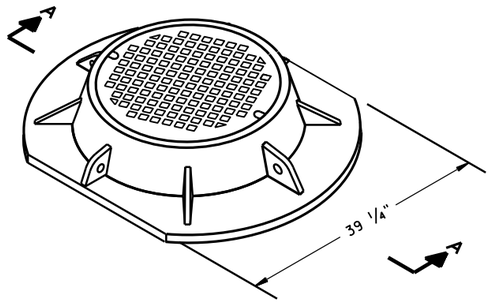
FHWA

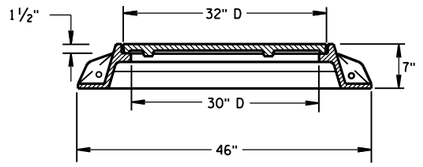
6

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

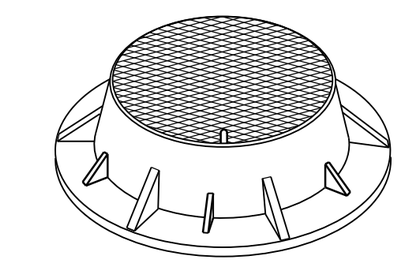
6

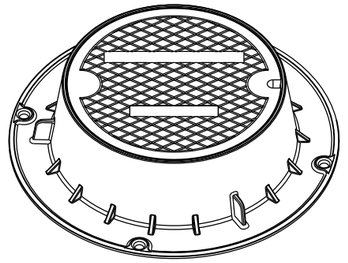
S.D.D. 8 A 5-19c

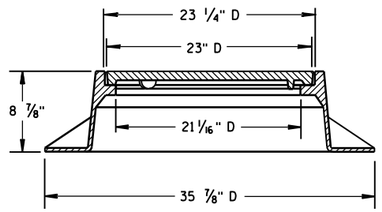


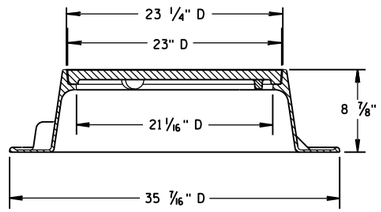


SECTION A-A
TYPE "K"









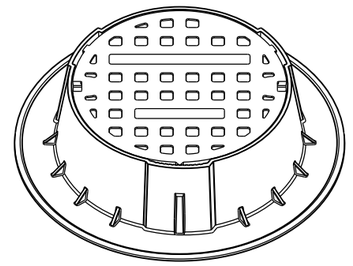
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

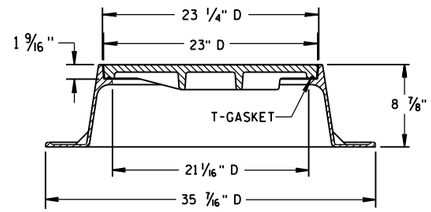
GENERAL NOTES

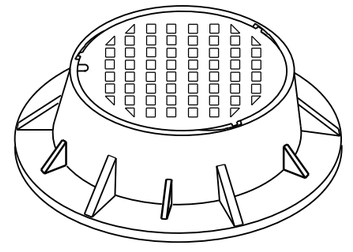
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

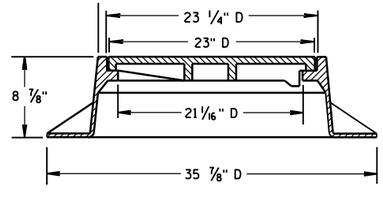
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

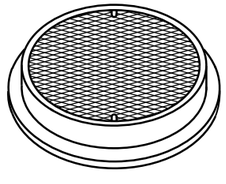


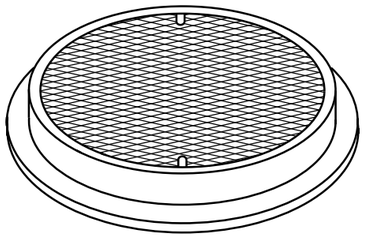


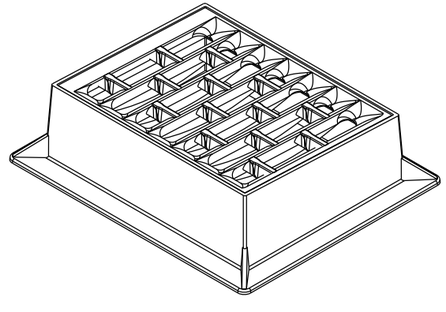


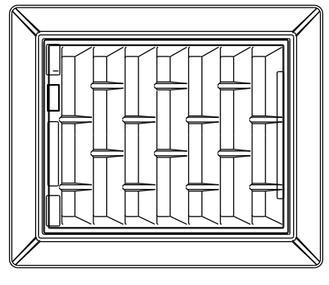


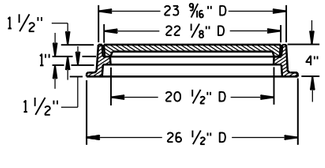
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE











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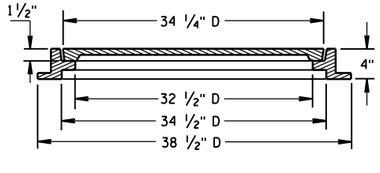

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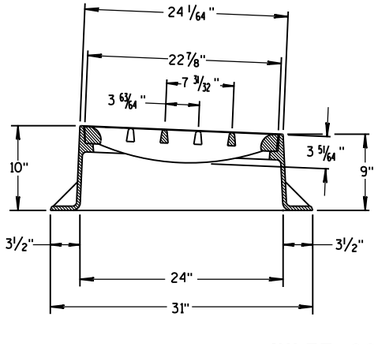
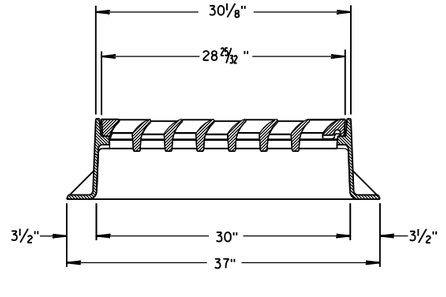




INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

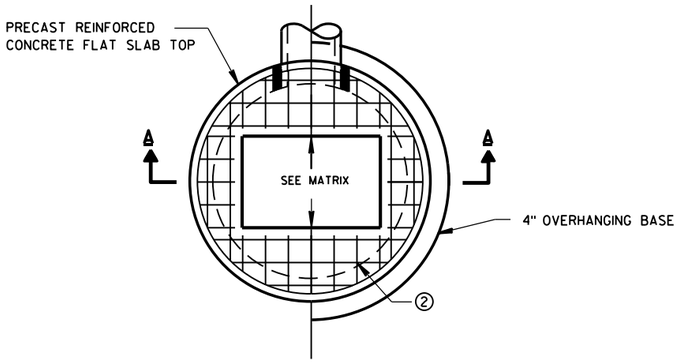
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

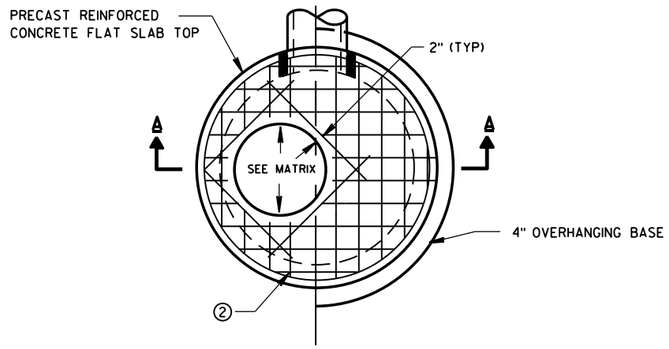
S.D.D. 8 A 5-19d

6

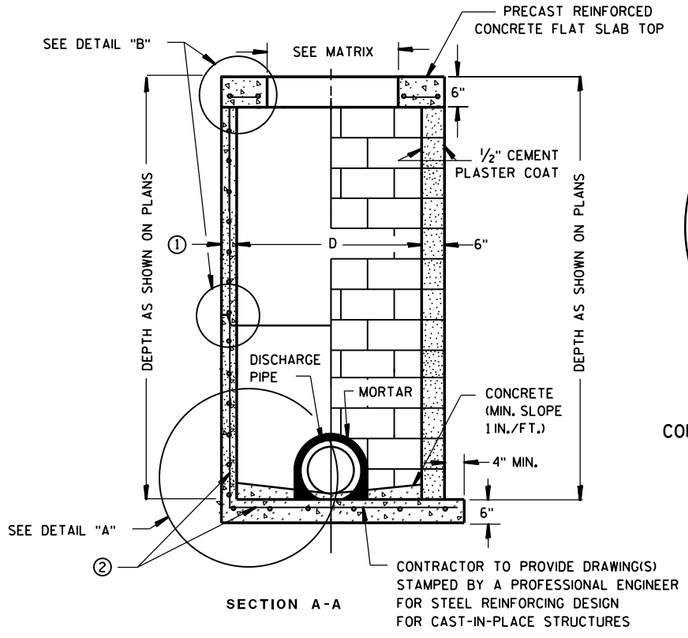
S.D.D. 8 A 5-19d



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

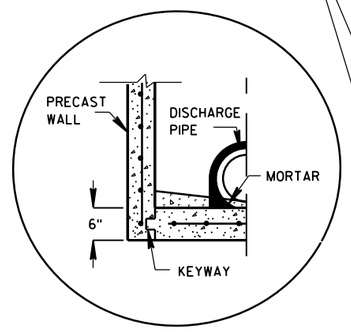


SECTION A-A

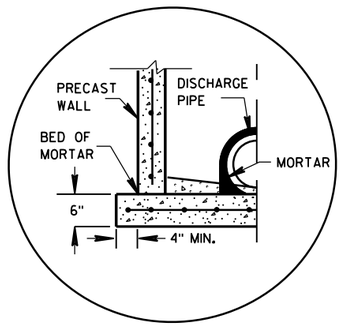
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

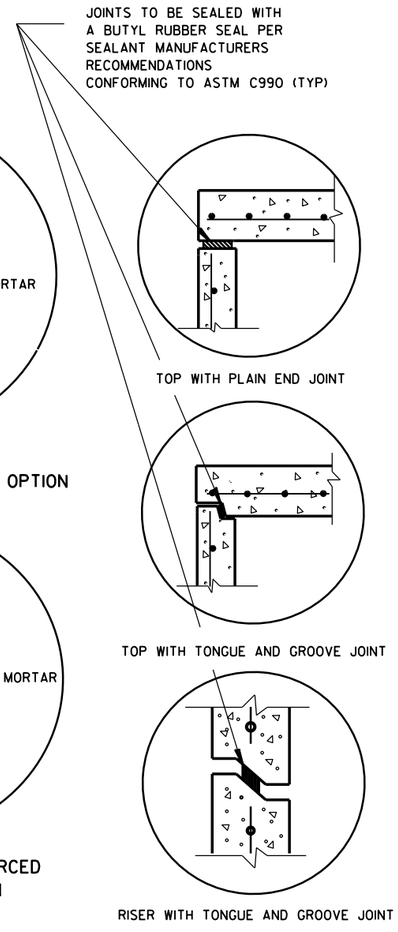


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

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 DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF 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.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

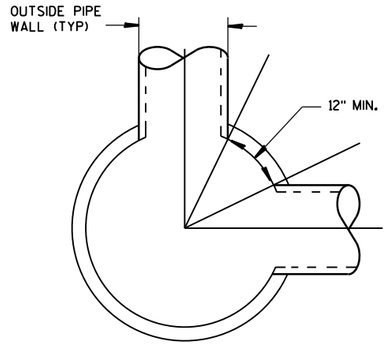
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

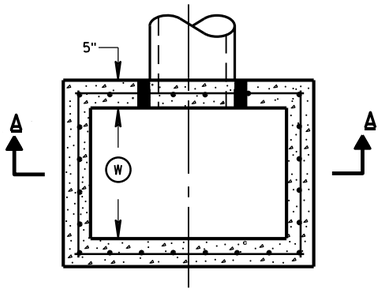
6

S.D.D. 8 C 6-1

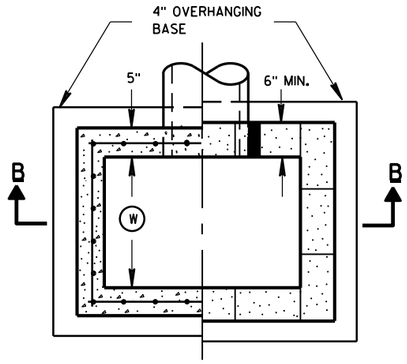
6

S.D.D. 8 C 6-1

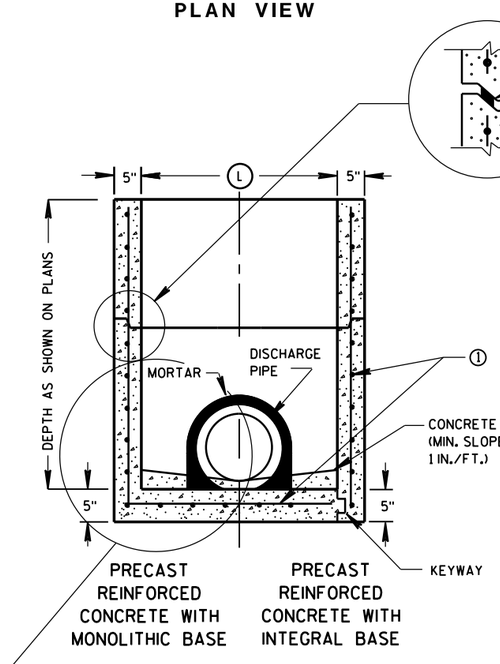
INLETS 3-FT AND 4-FT DIAMETER



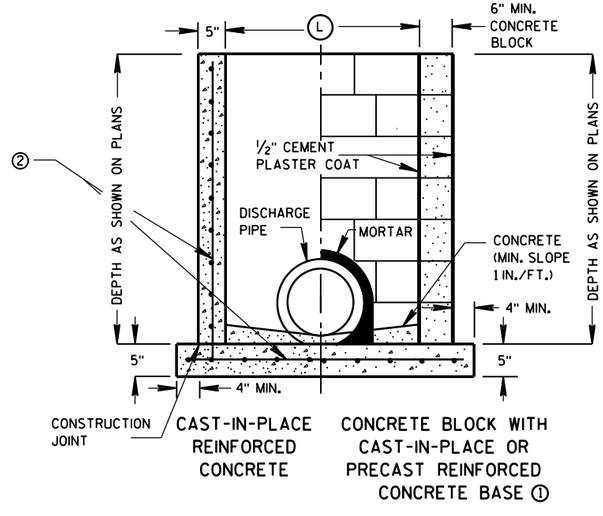
PLAN VIEW



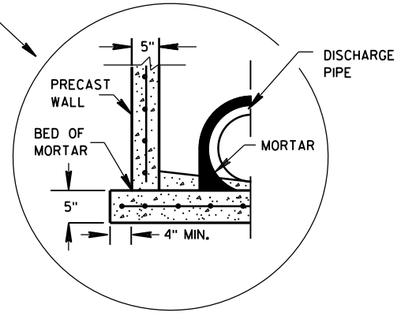
PLAN VIEW



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.

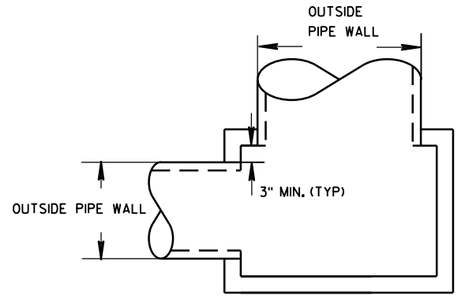
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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"

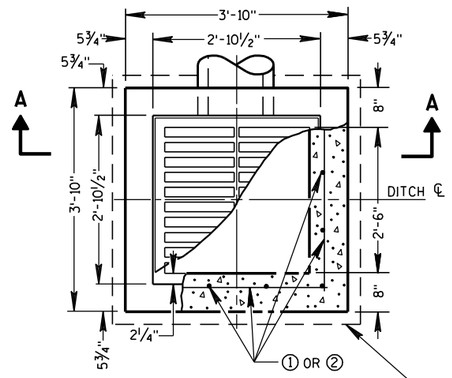
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

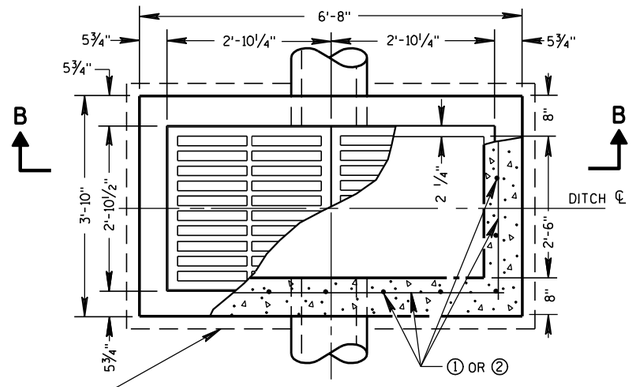
APPROVED
6/5/2012
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DE ENGINEER

6
S.D.D. 8 C 7-1

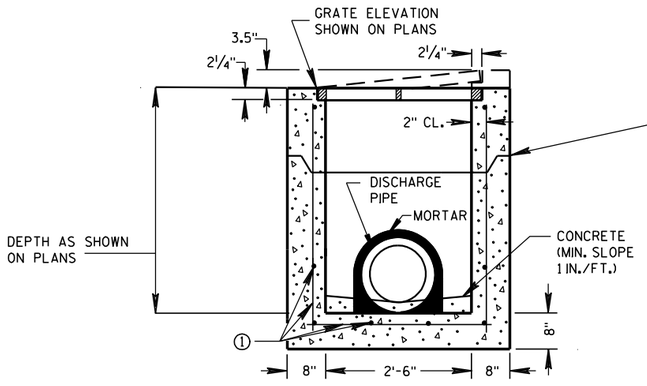


PLAN VIEW

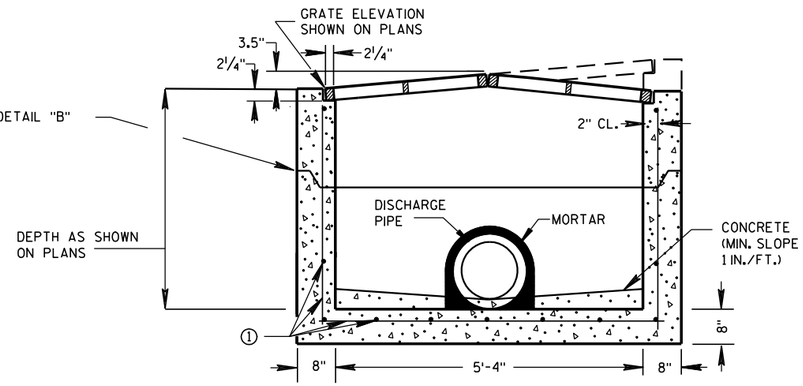


PLAN VIEW

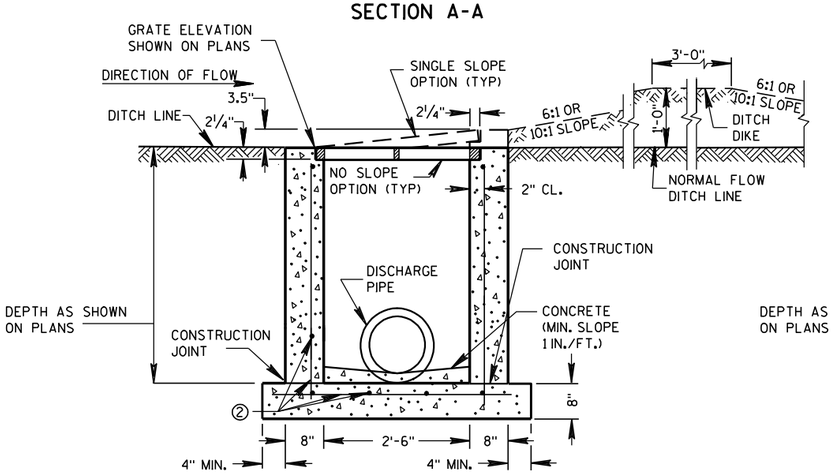
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



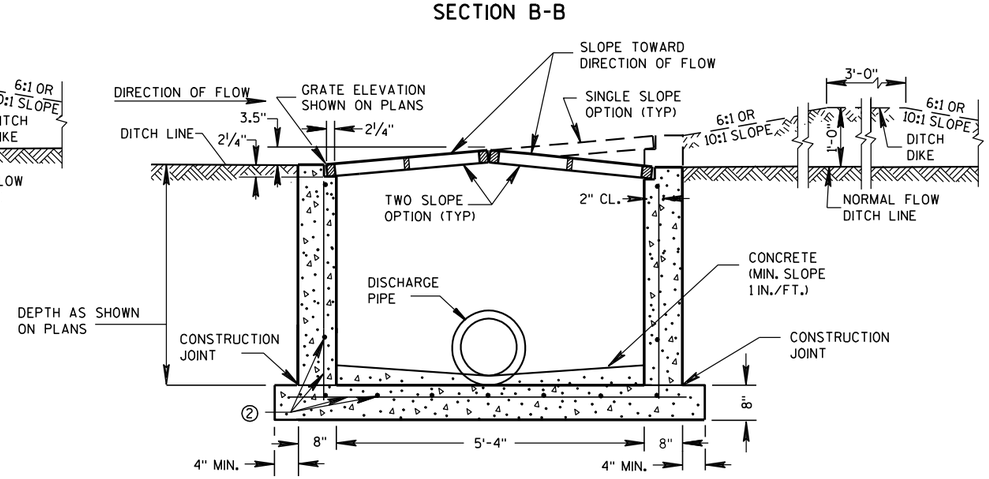
PRECAST REINFORCED CONCRETE SECTION A-A



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.

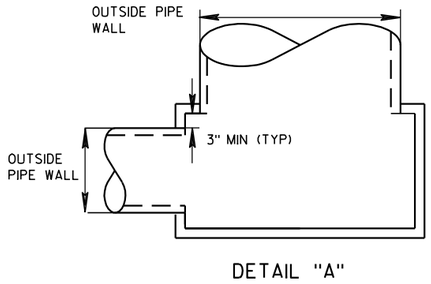
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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.

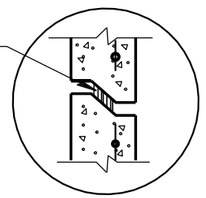
PIPE MATRIX

	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
DEPARTMENT OF TRANSPORTATION

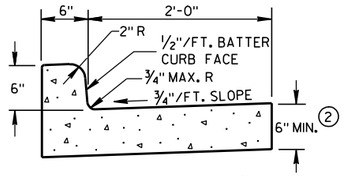
APPROVED

6/5/2012
DATE

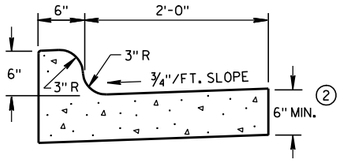
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

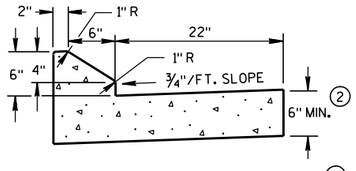
6
S.D.D. 8 C 8-1



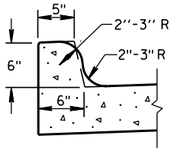
TYPES A & D (1)



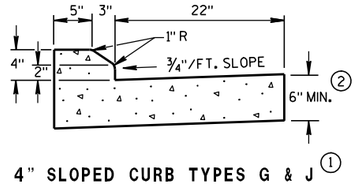
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

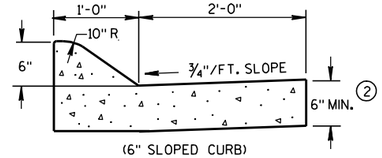


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

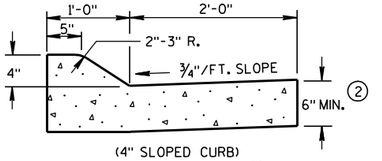


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

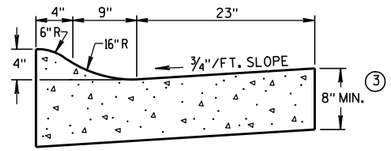


(6" SLOPED CURB)



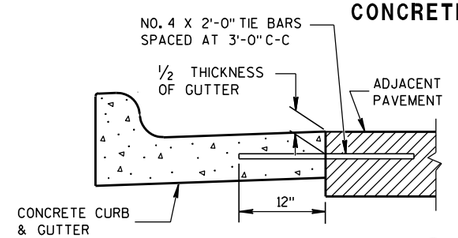
(4" SLOPED CURB)

TYPES A & D (1)

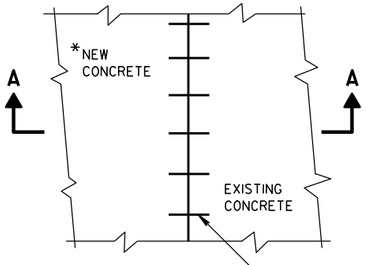


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"

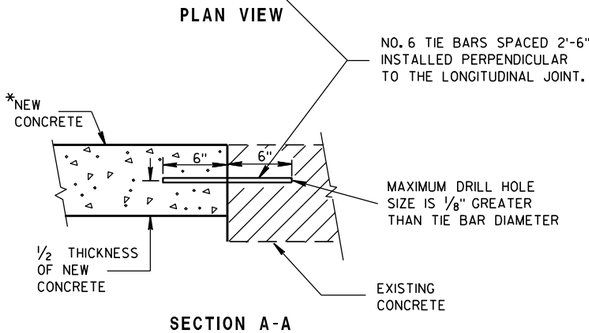


TYPICAL TIE BAR LOCATION (1)



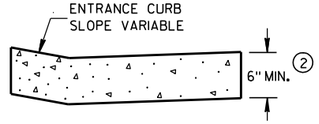
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

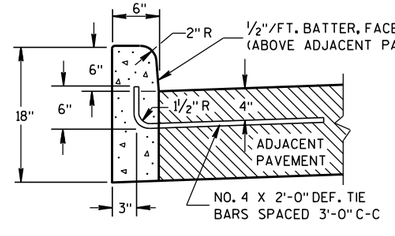


SECTION A-A

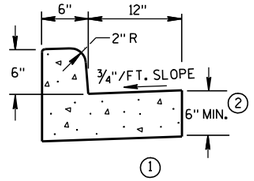
TIE BARS DRILLED INTO EXISTING PAVEMENT



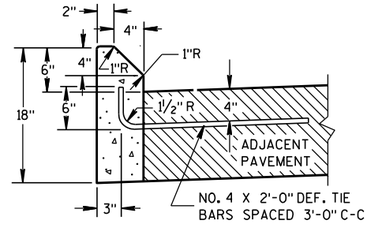
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



(1)
TYPES A & D

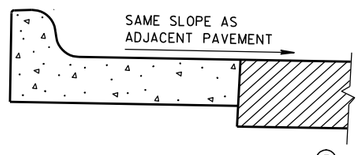


(1)
TYPES A & D
CONCRETE CURB & GUTTER 18"



(1)
TYPES G & J

CONCRETE CURB



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

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.

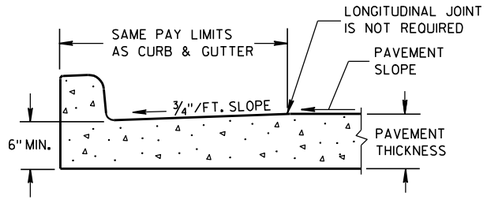
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(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.

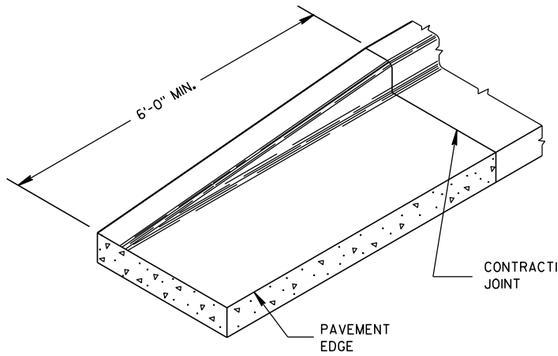
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(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.



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

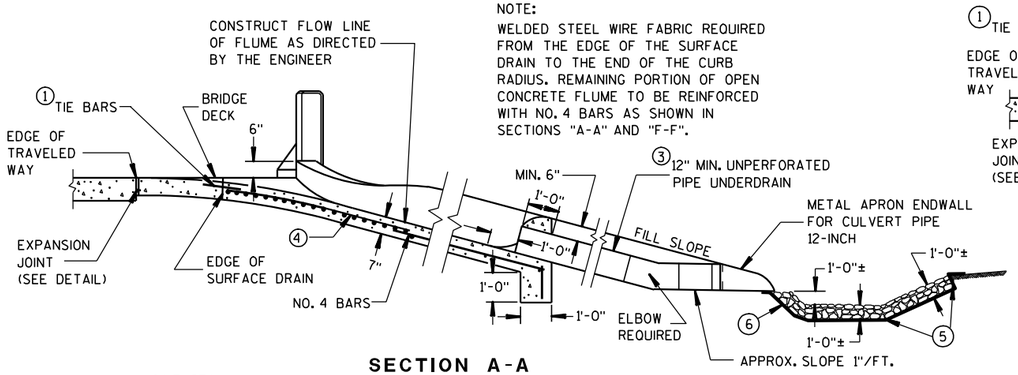
CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

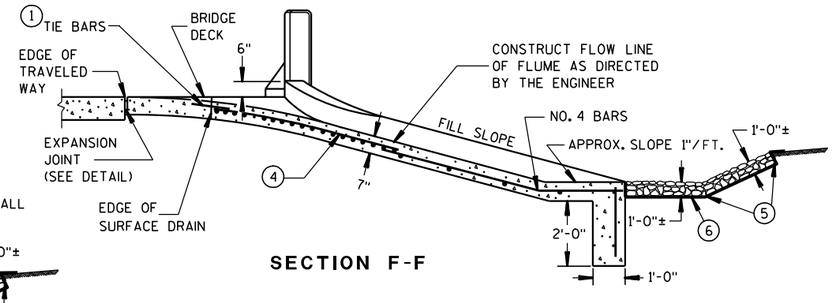
APPROVED
9/4/08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 D 1-17



SECTION A-A



SECTION F-F

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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" CENTERS TO BE USED ONLY WHEN ADJACENT TO P.C. CONCRETE.

(2) NO. 4 X 2'-0" TIE BARS SPACED AT 12" CENTERS TO BE PLACED BY BRIDGE CONTRACTOR, OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PIPE UNDERDRAIN MAY BE ANY OF THE MATERIALS LISTED IN SECTION 612.2 OF THE STANDARD SPECIFICATIONS EXCEPT DRAIN TILE.

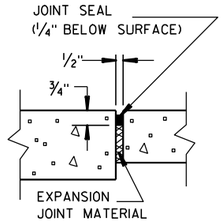
(4) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.

(5) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

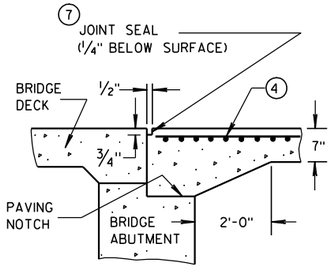
(6) GEOTEXTILE FABRIC, TYPE 'R"

(7) HOT POURED SEALANT UNLESS OTHERWISE SPECIFIED.

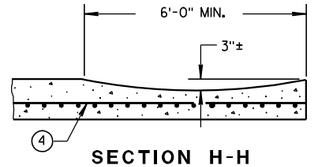
(8) THIS DIMENSION MAY VARY DEPENDING ON THE SPACING OF POSTS FOR THE STEEL PLATE BEAM GUARD. THE TYPICAL LOCATION FOR THE SURFACE DRAIN IS WHERE THE POST SPACING WIDENS TO 3'-1½".



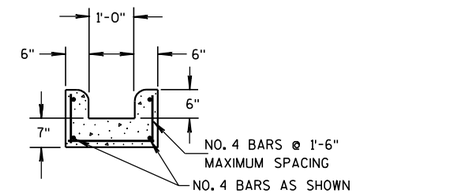
EXPANSION JOINT DETAIL



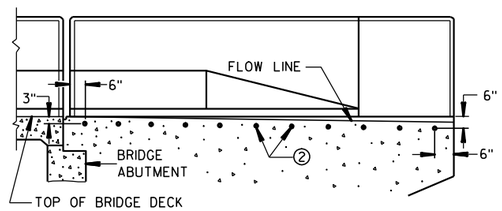
SECTION D-D



SECTION H-H

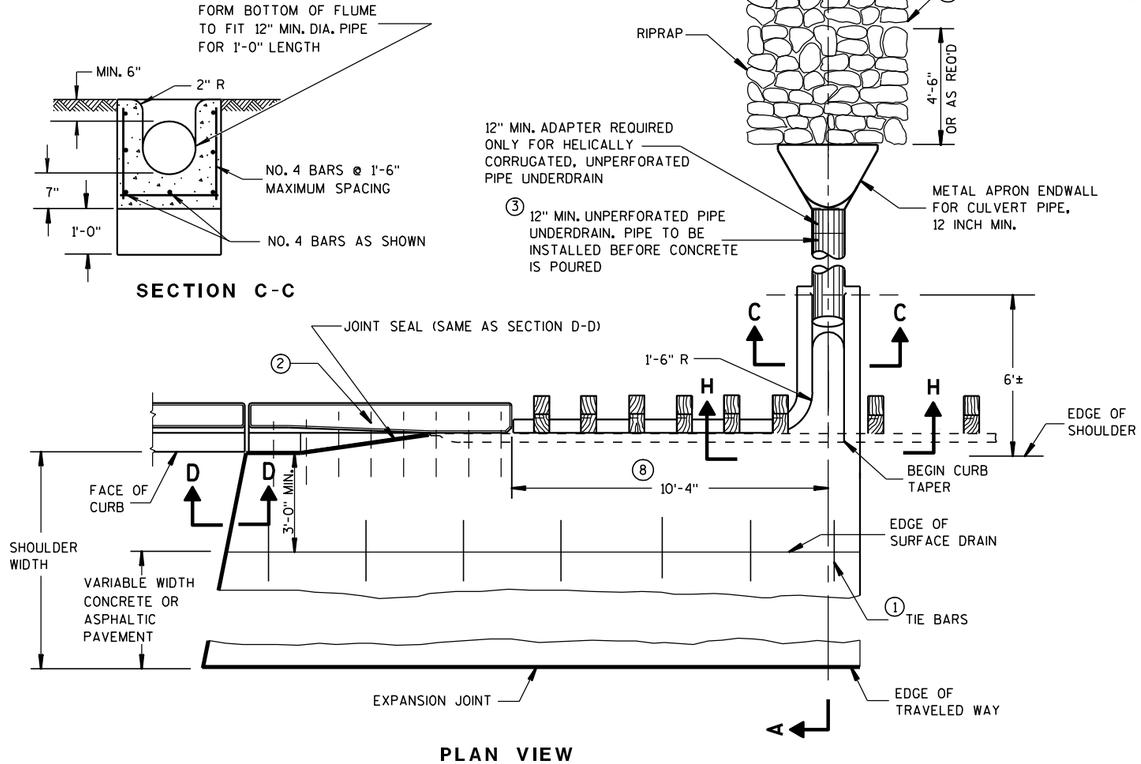


SECTION E-E

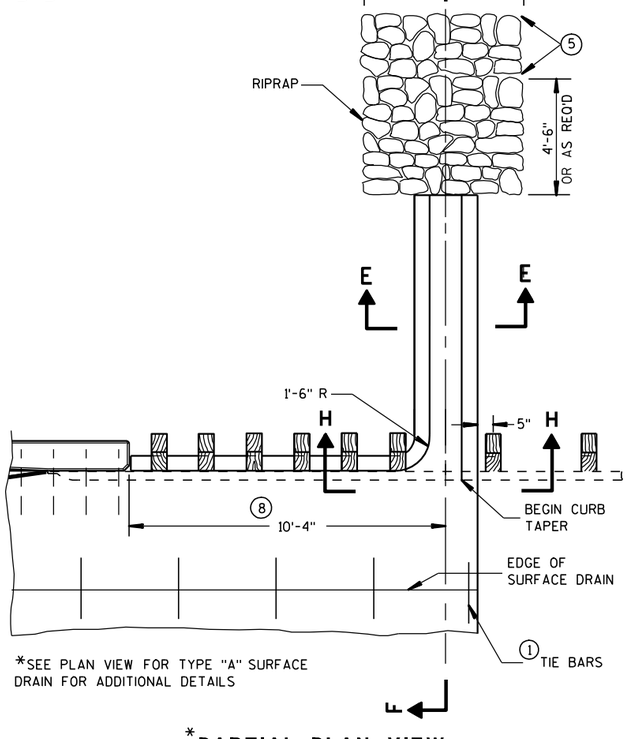


LOCATION OF TIE BARS IN WINGWALL

SECTION C-C



PLAN VIEW
SURFACE DRAIN WITH PIPE
TYPE "A"



*SEE PLAN VIEW FOR TYPE "A" SURFACE DRAIN FOR ADDITIONAL DETAILS

*PARTIAL PLAN VIEW
SURFACE DRAIN WITHOUT PIPE
TYPE "B"

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
490
FHWA

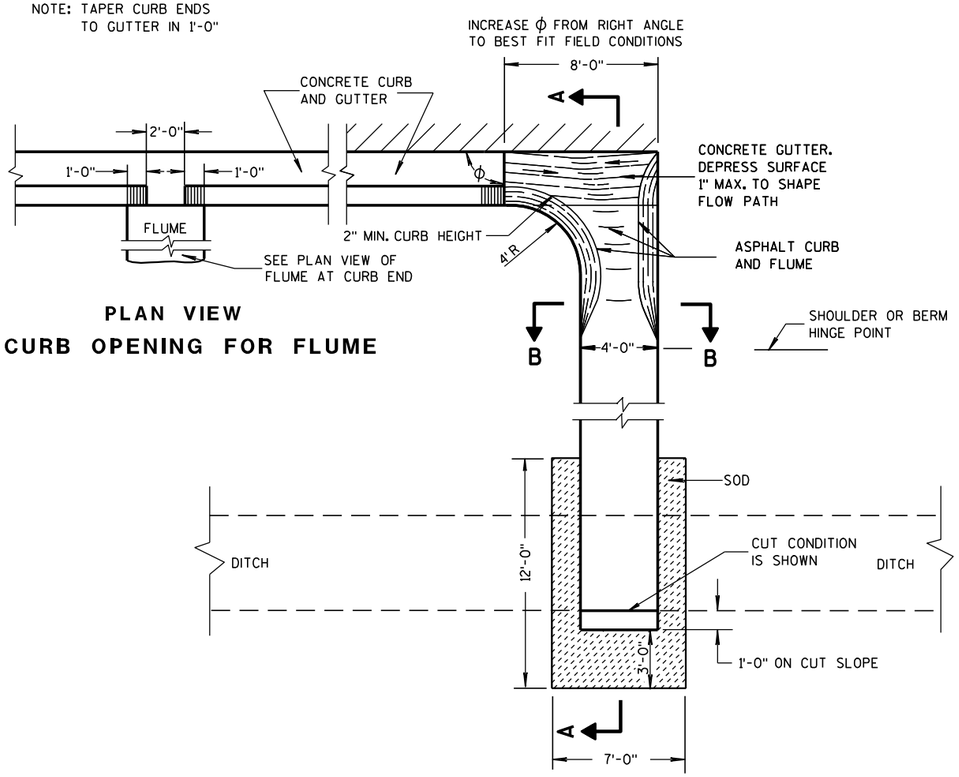
6

S.D.D. 8 D 2-6

6

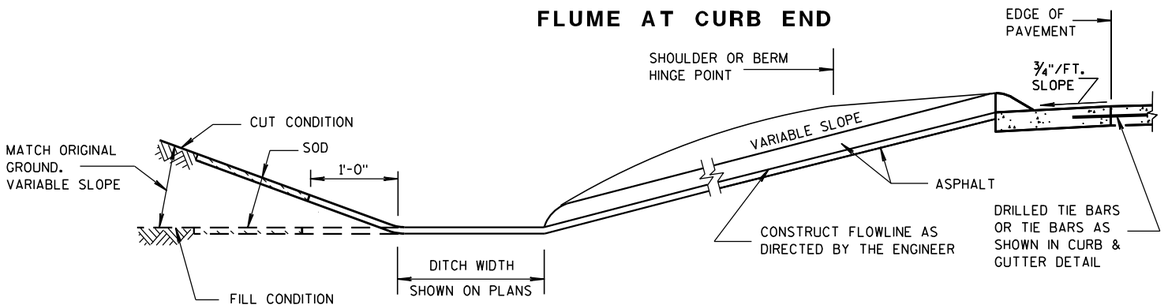
S.D.D. 8 D 2-6

ASPHALTIC FLUME

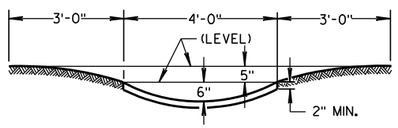


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

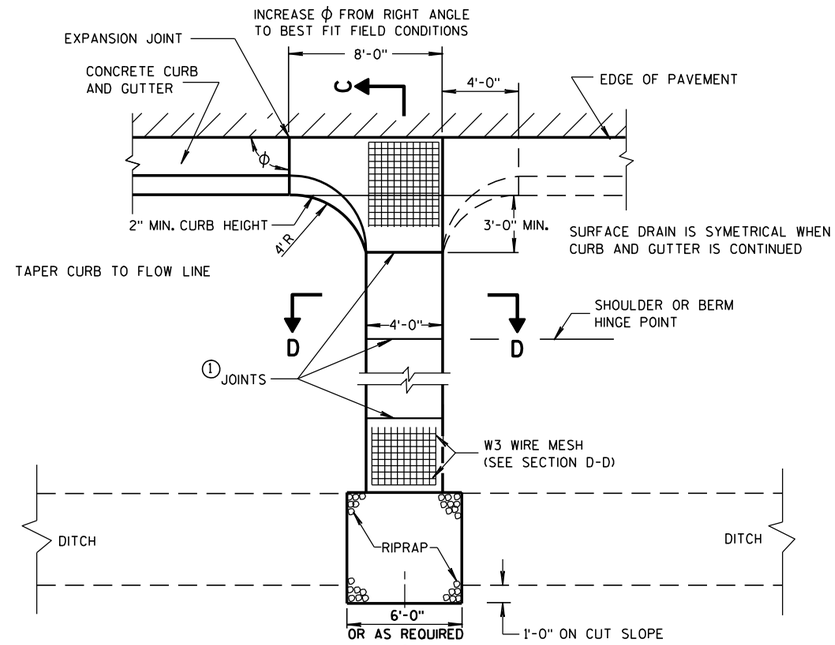
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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

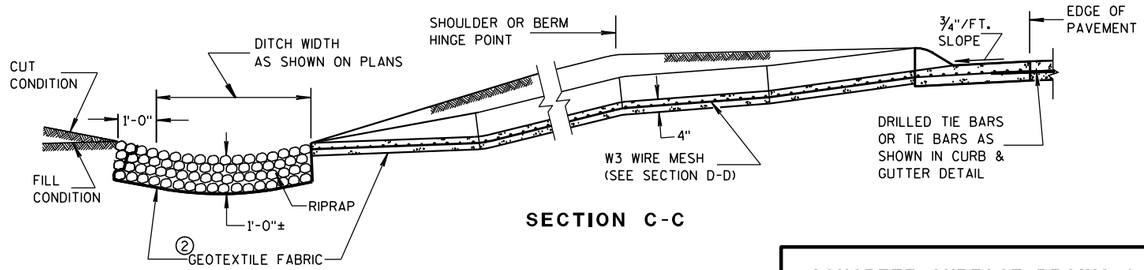
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

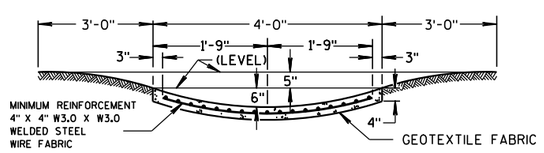
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
491
MENT
FHWA

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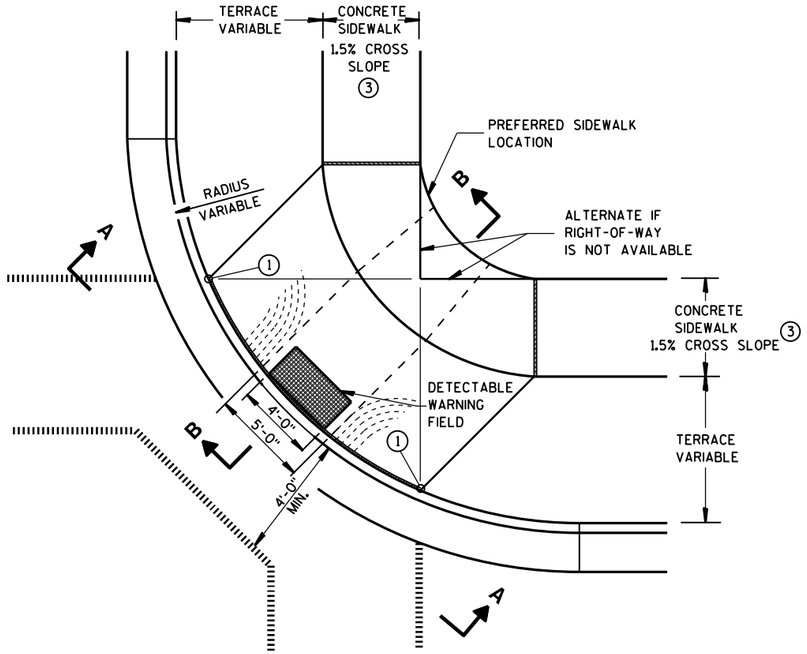
S.D.D. 8 D 4-5

6

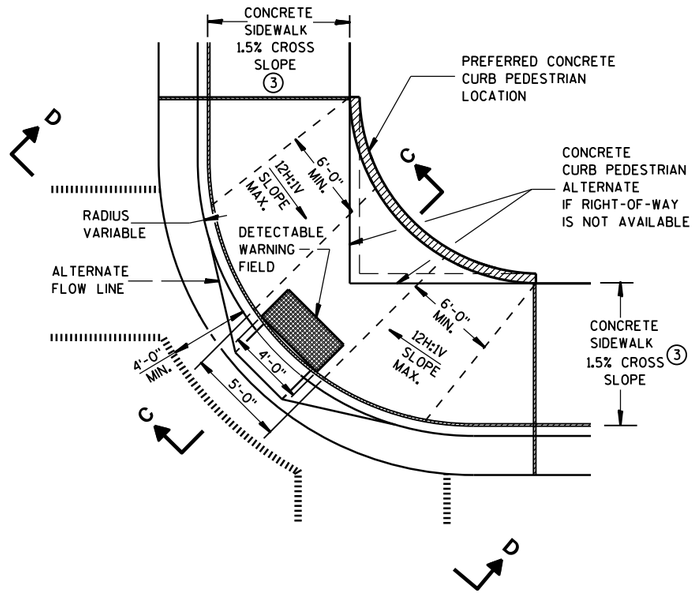
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

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.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

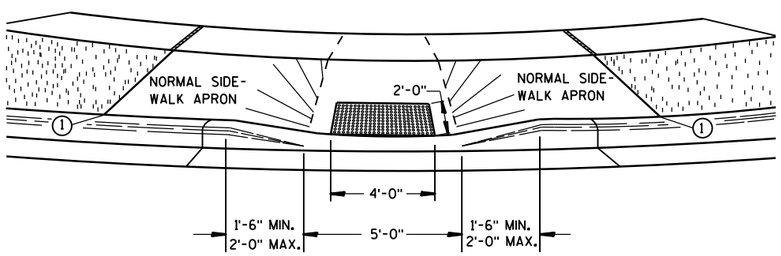
① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

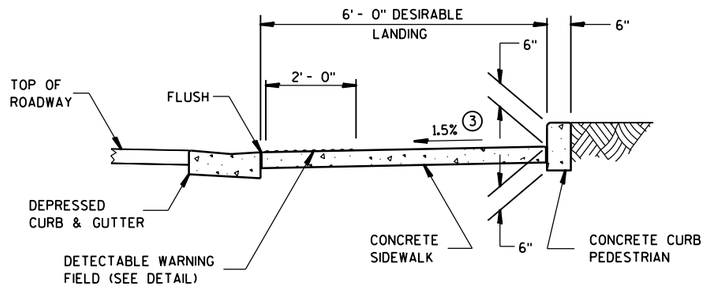
③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

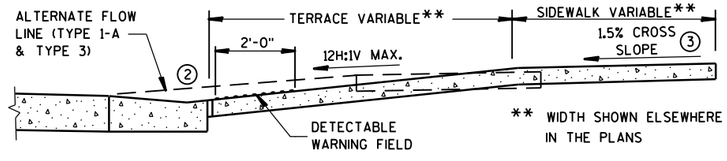
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



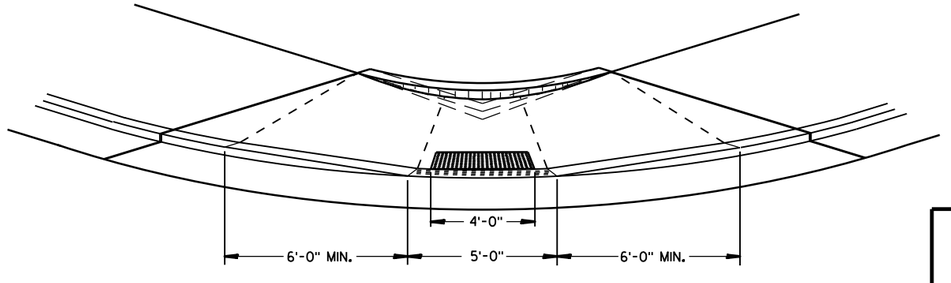
VIEW A-A



SECTION C-C



SECTION B-B



VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

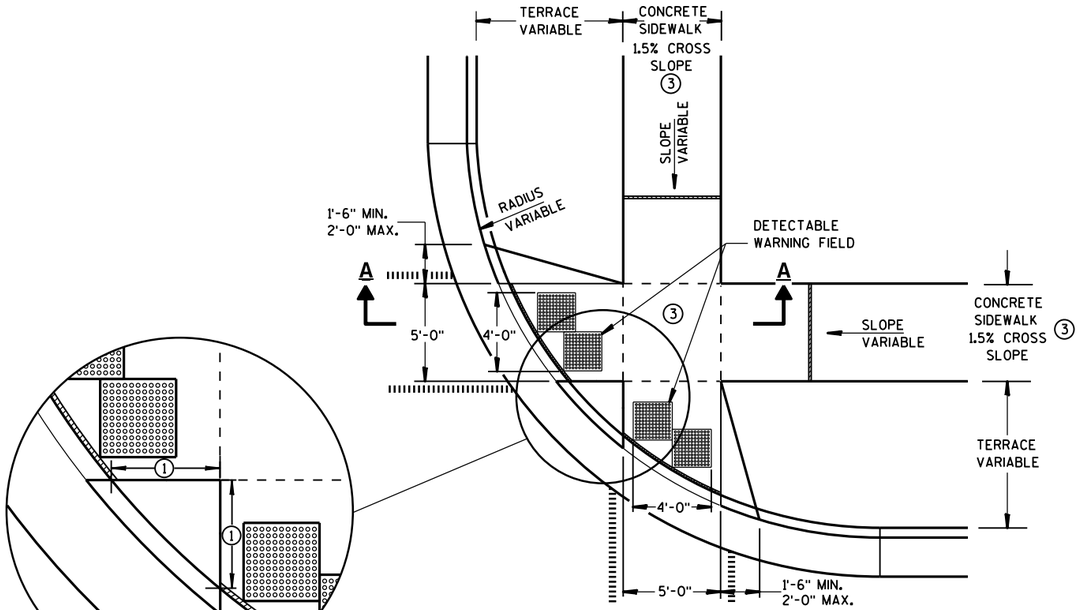
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-15a

6

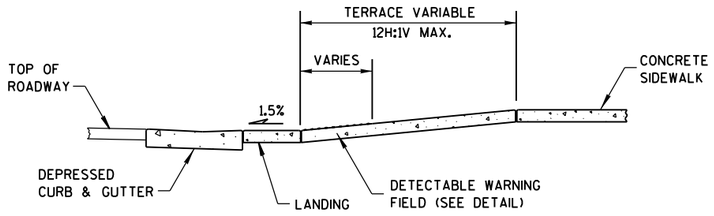
S.D.D. 8 D 5-15a



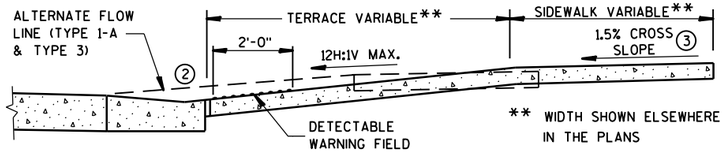
PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

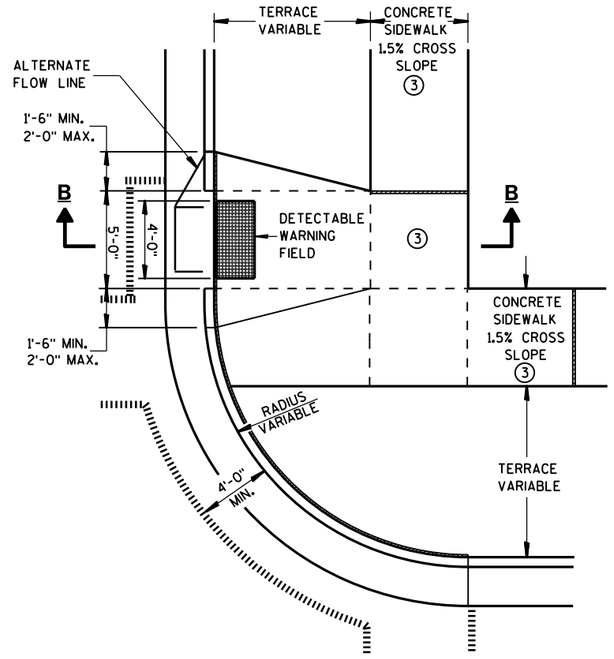
① WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

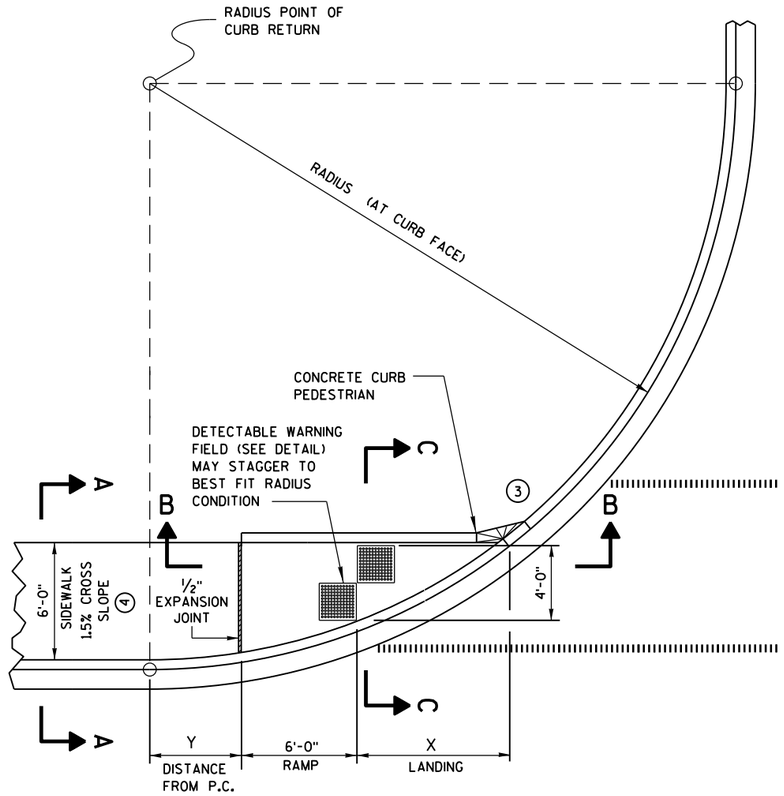
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

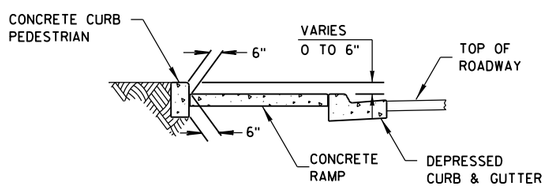
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

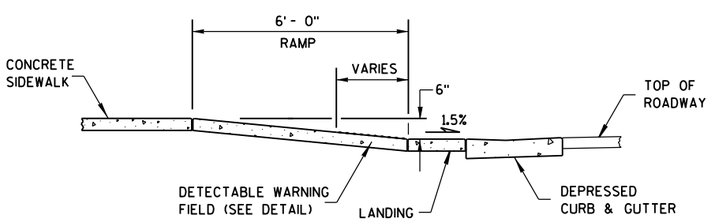
S.D.D. 8 D 5-15b



CURB RAMP TYPE 4A
PLAN VIEW



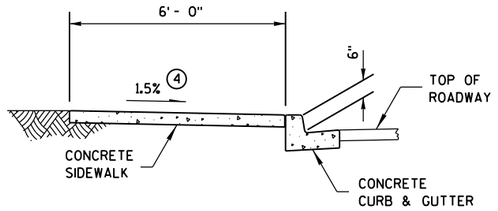
SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

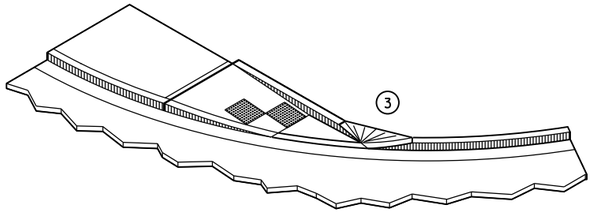
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

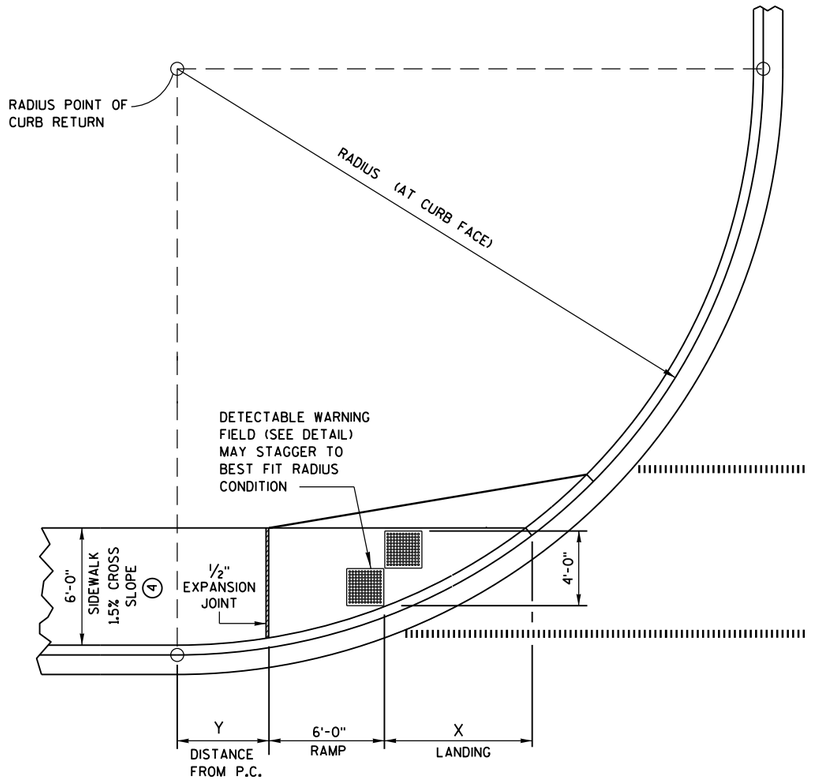
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

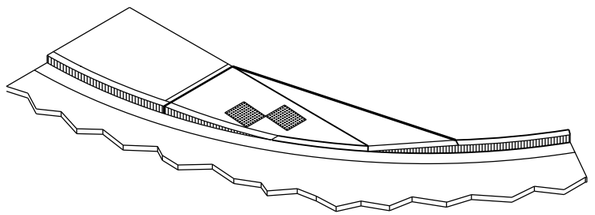
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

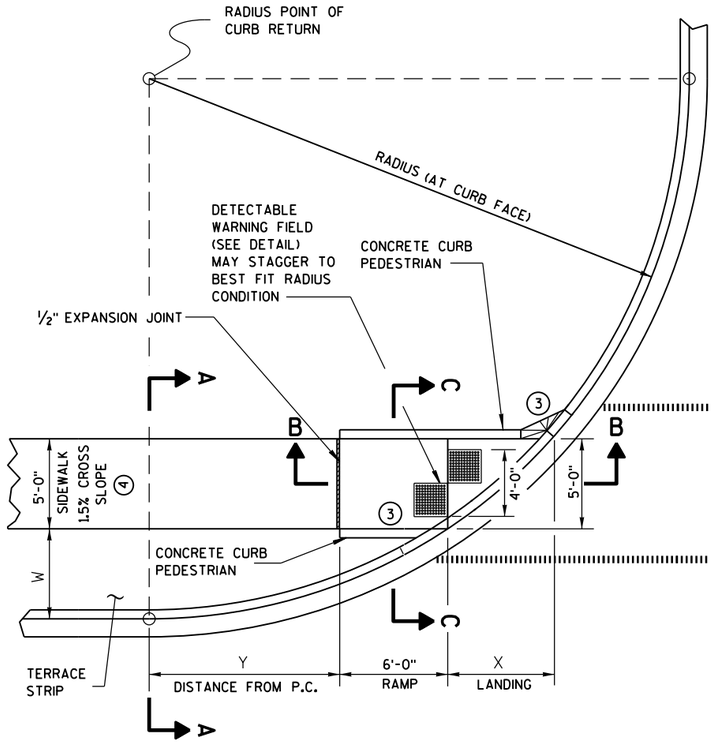
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

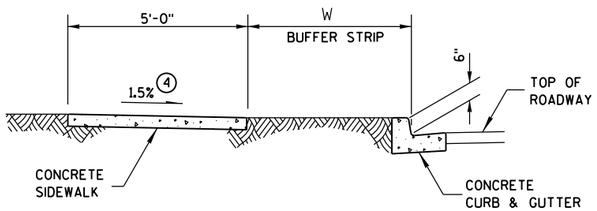
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

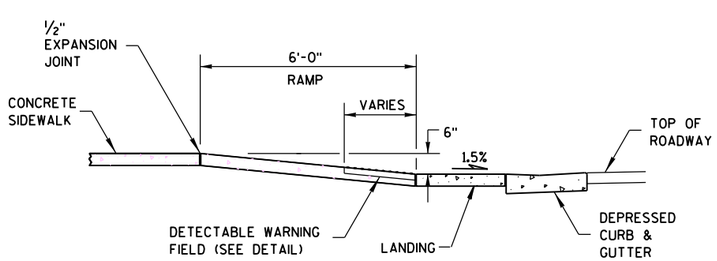
S.D.D. 8 D 5-15c



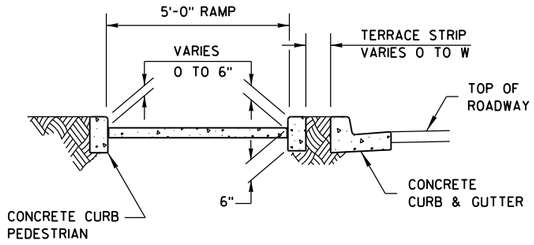
CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



SECTION B-B FOR TYPE 4B



SECTION C-C FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

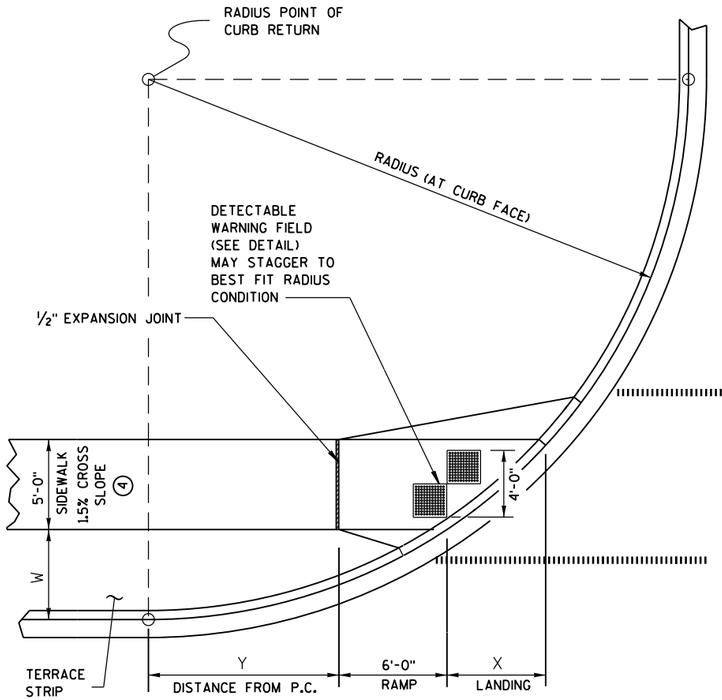
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

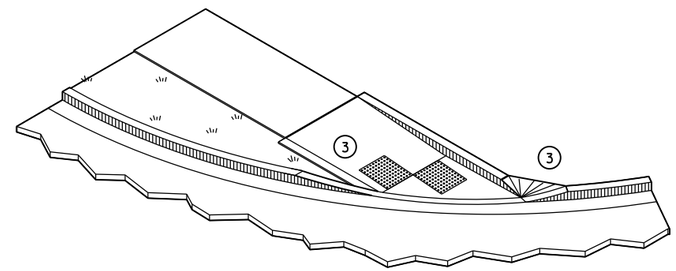
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

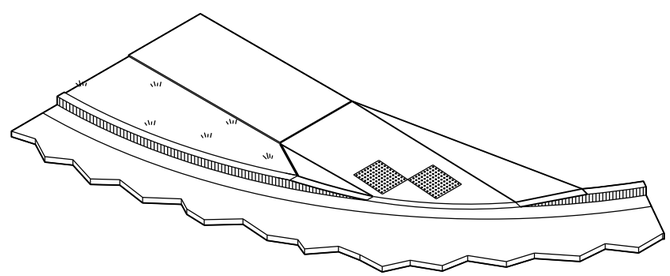
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



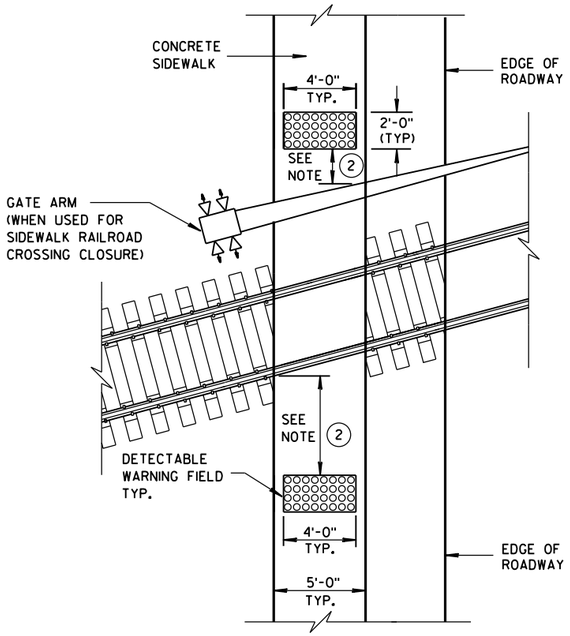
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

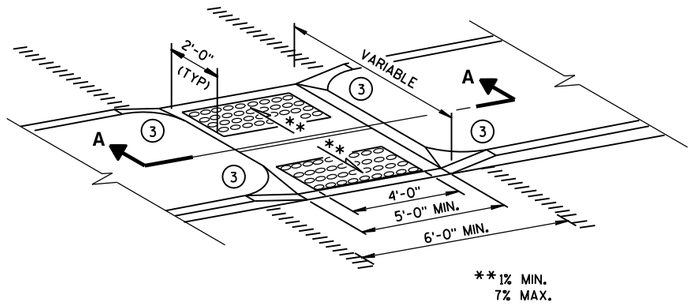
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-15d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

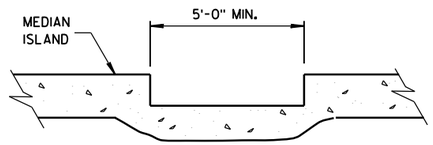
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

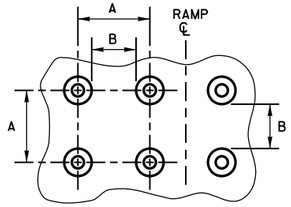
(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



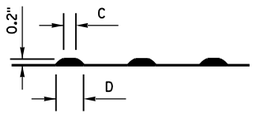
SECTION A-A



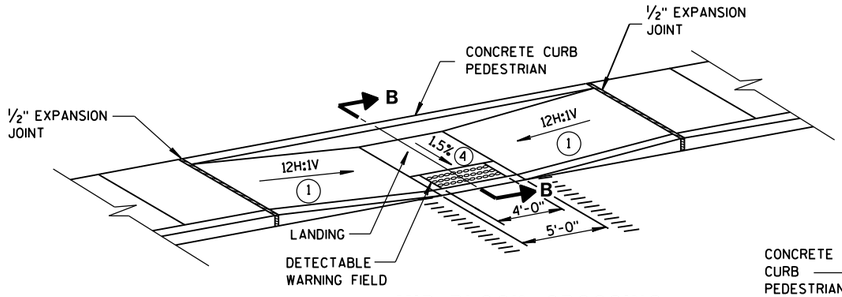
PLAN VIEW

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

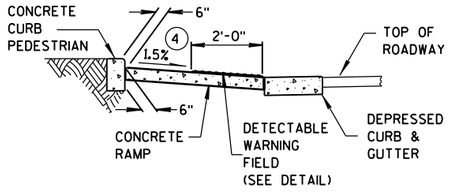
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



ELEVATION VIEW

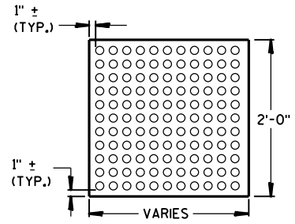


MID-BLOCK CROSSING
TYPE 7A



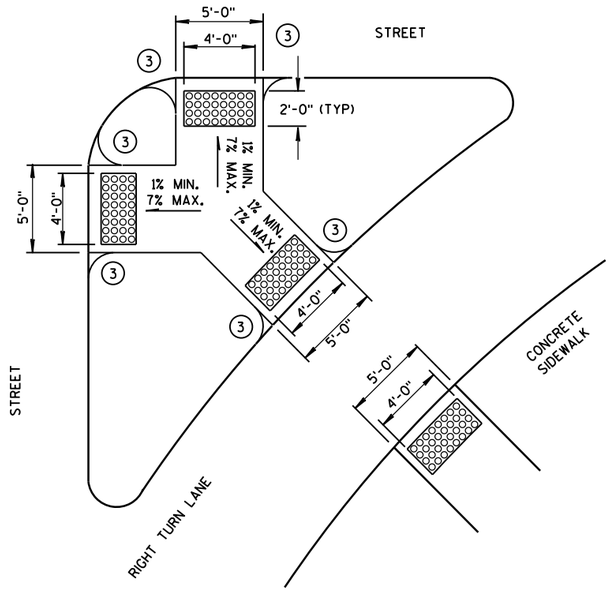
SECTION B-B

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

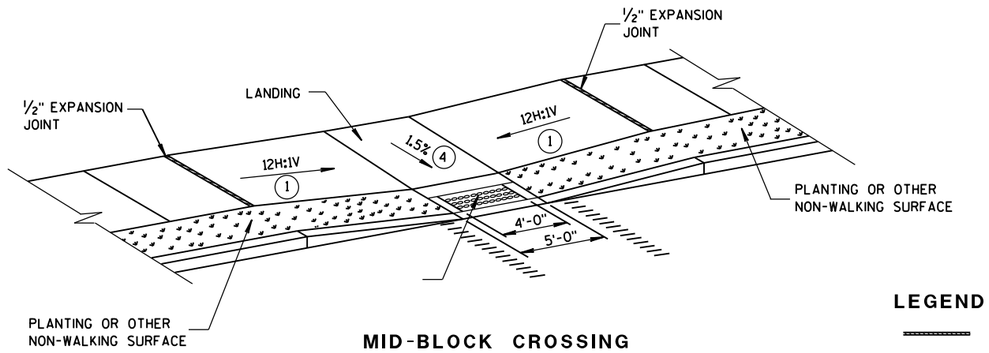


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

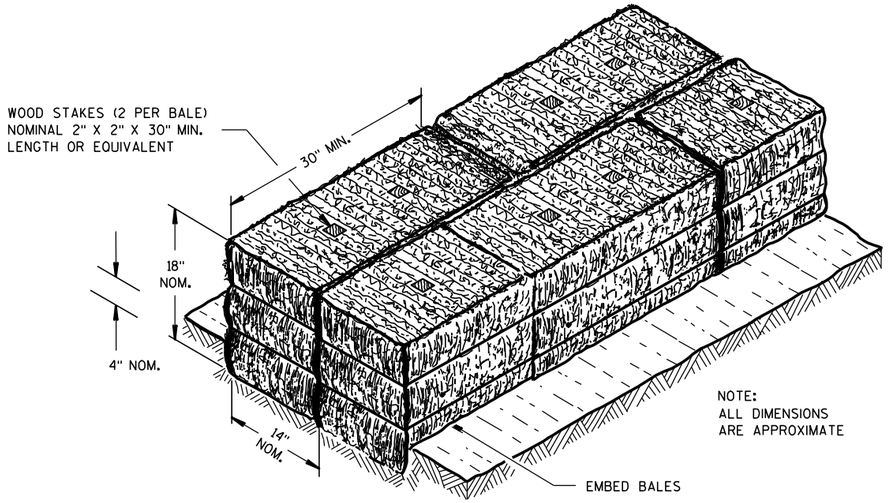
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

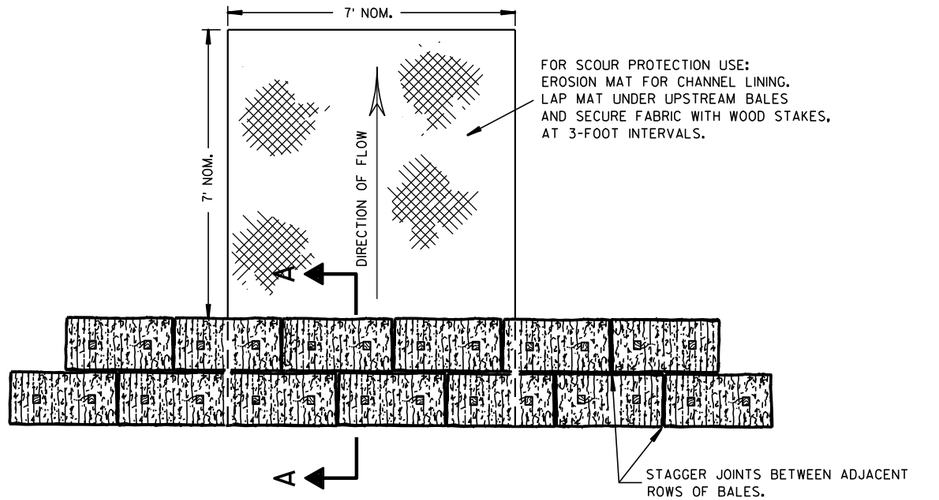
APPROVED
2-6-2013 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS [illegible] ENGINEER
FHWA

6

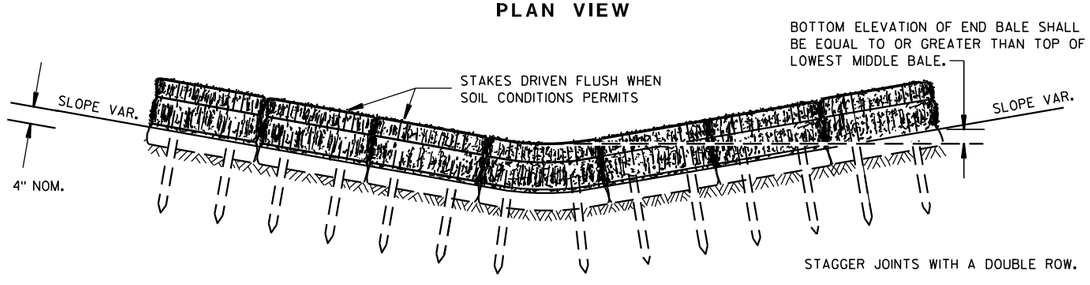
S.D.D. 8 D 5-15e



SECTION A-A



PLAN VIEW



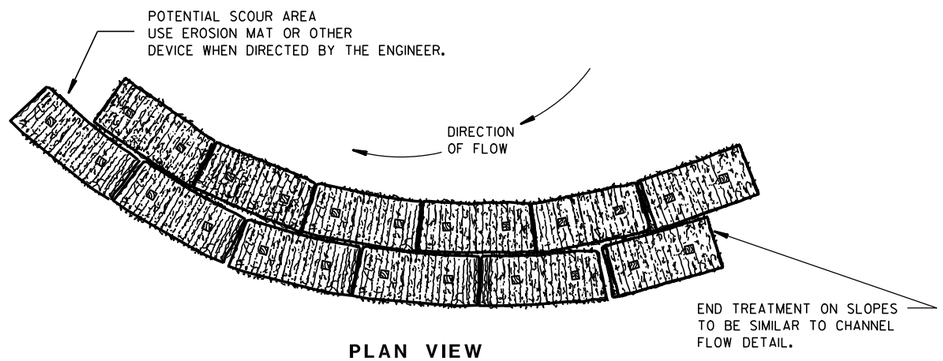
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

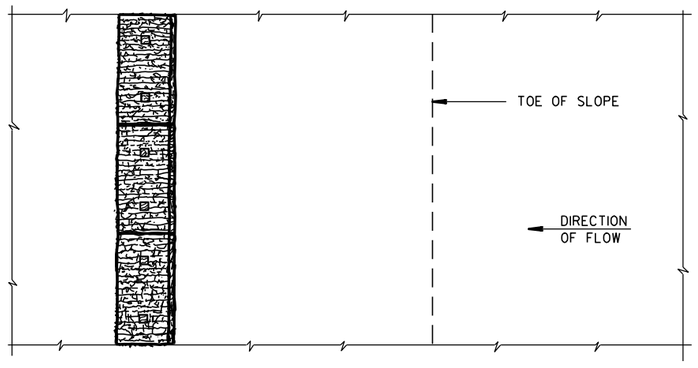
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

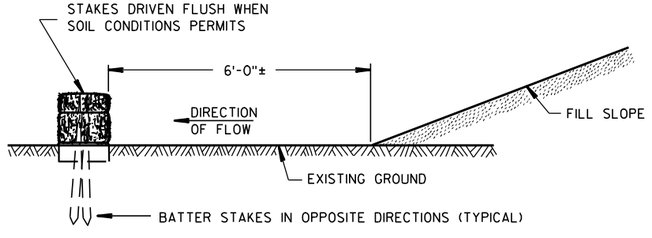


PLAN VIEW

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

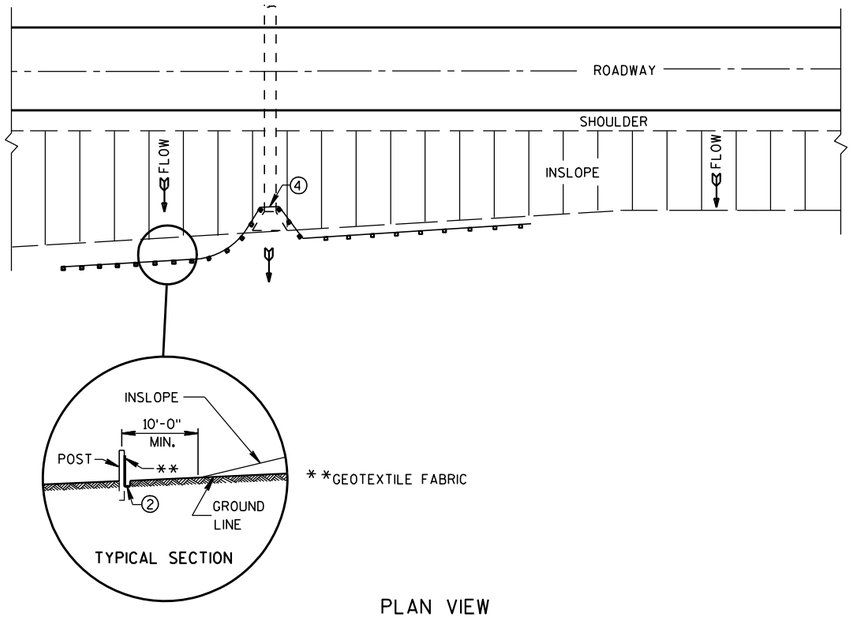
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

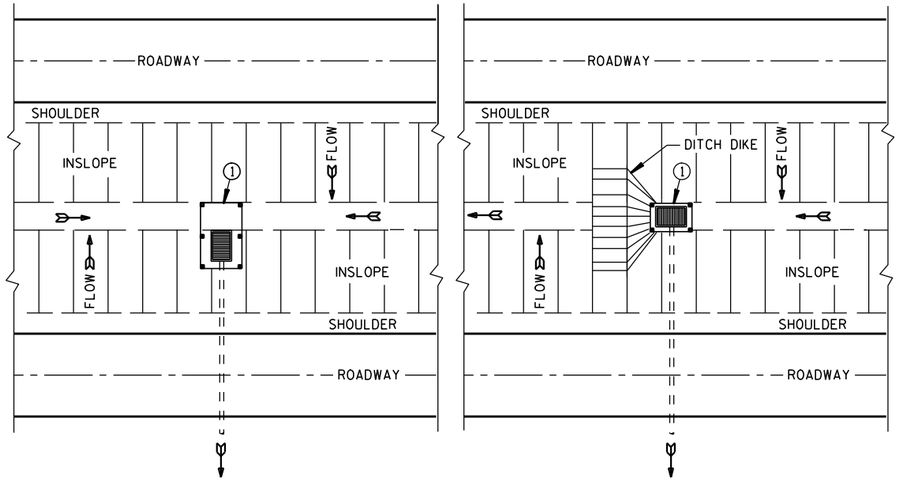
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



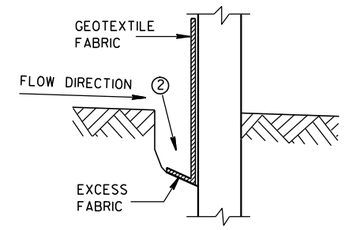
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

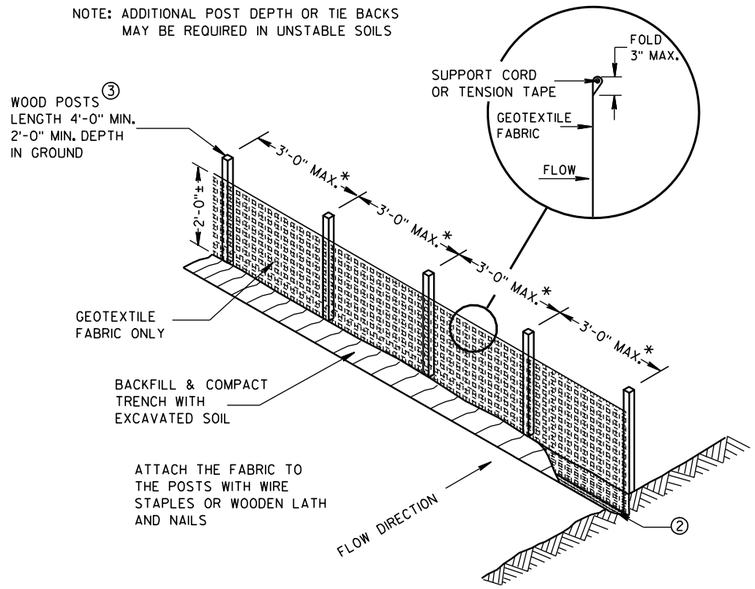
GENERAL NOTES

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

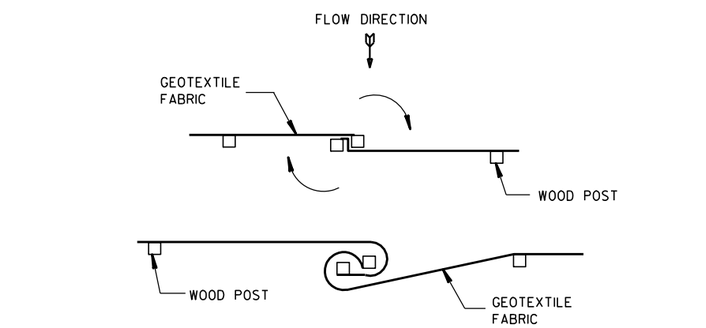
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



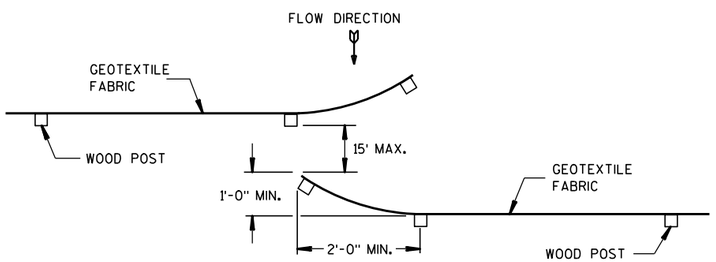
TRENCH DETAIL



SILT FENCE

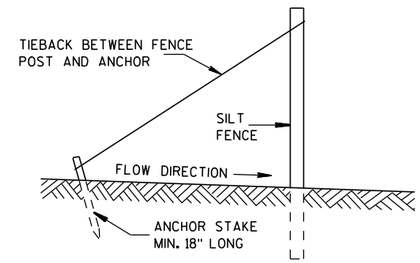


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

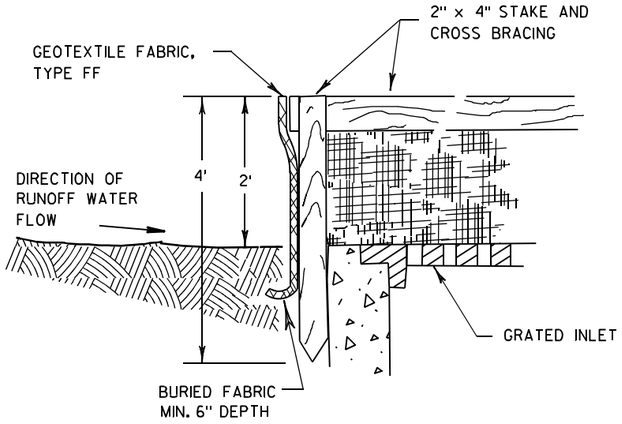
APPROVED
4-29-05
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

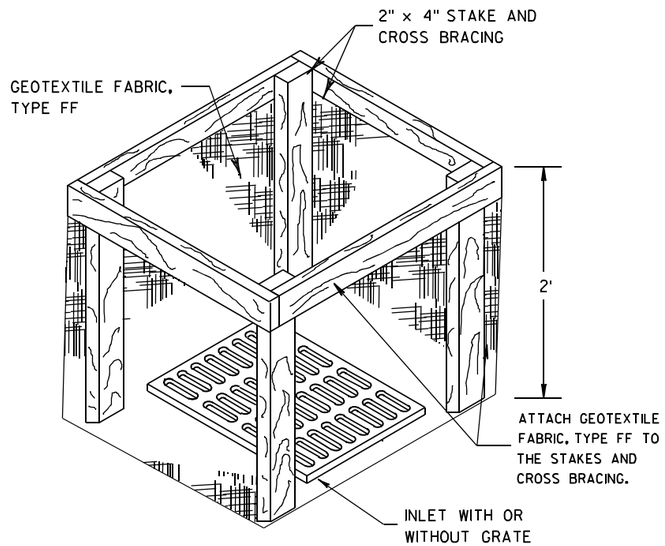
6

S.D.D. 8 E 9-6

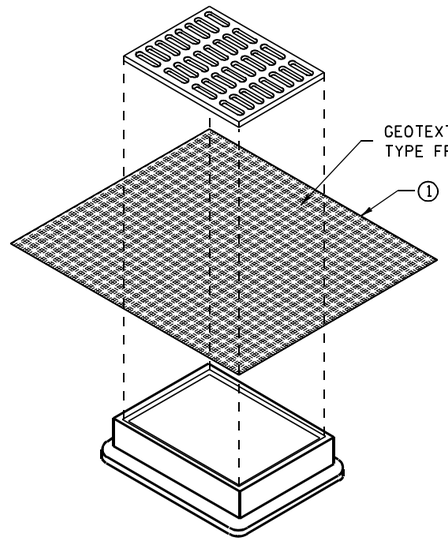
6

S.D.D. 8 E 9-6



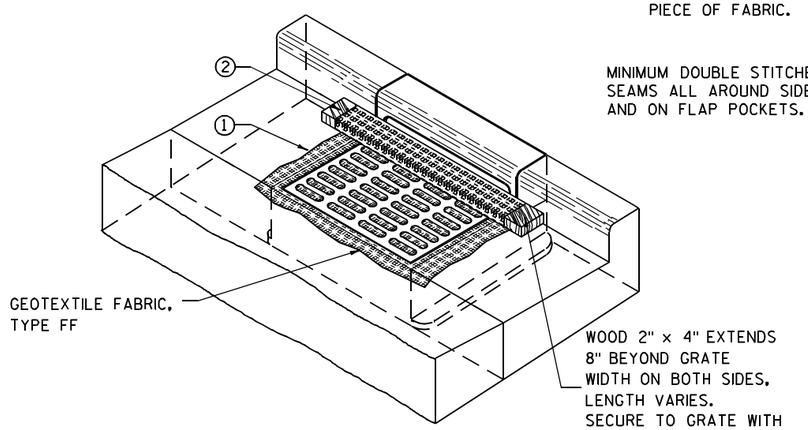


INLET PROTECTION, TYPE A

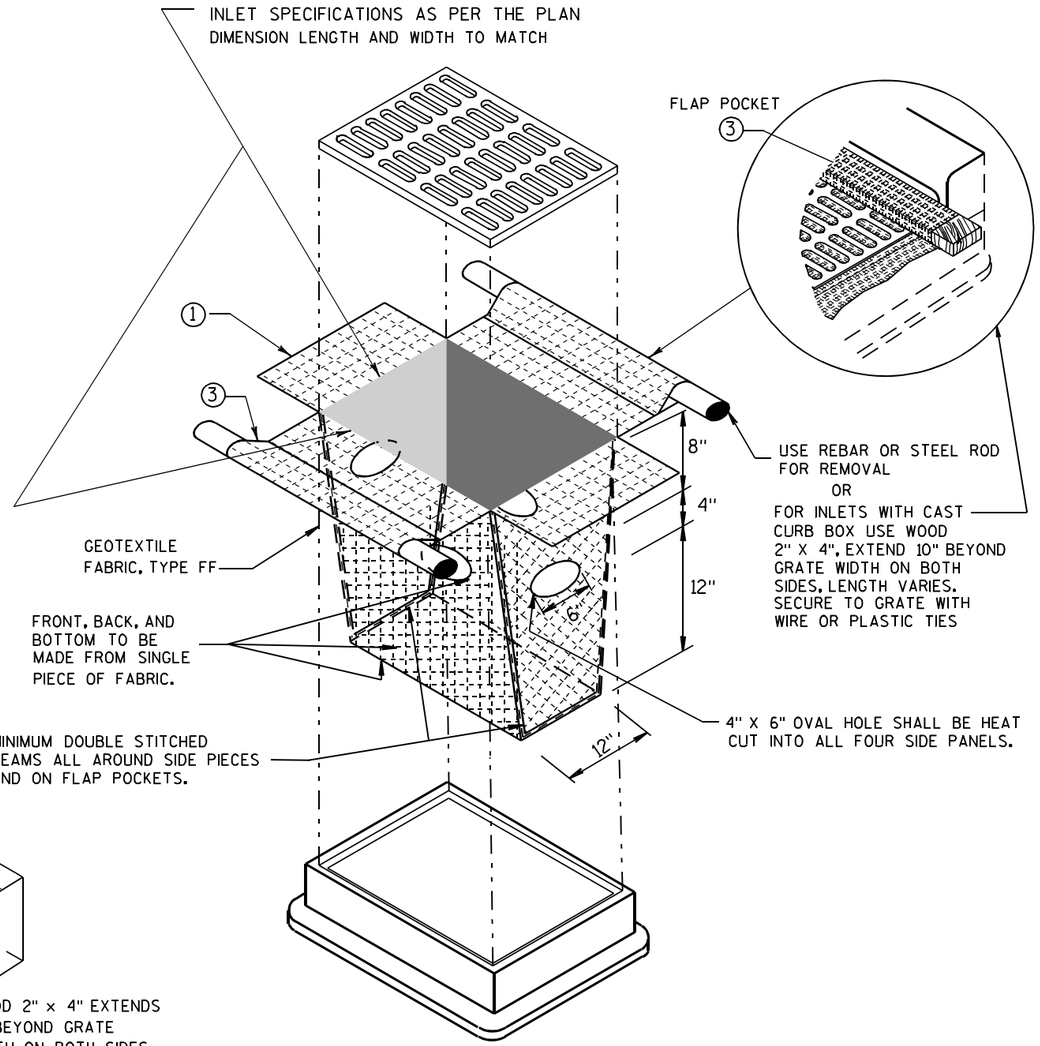


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

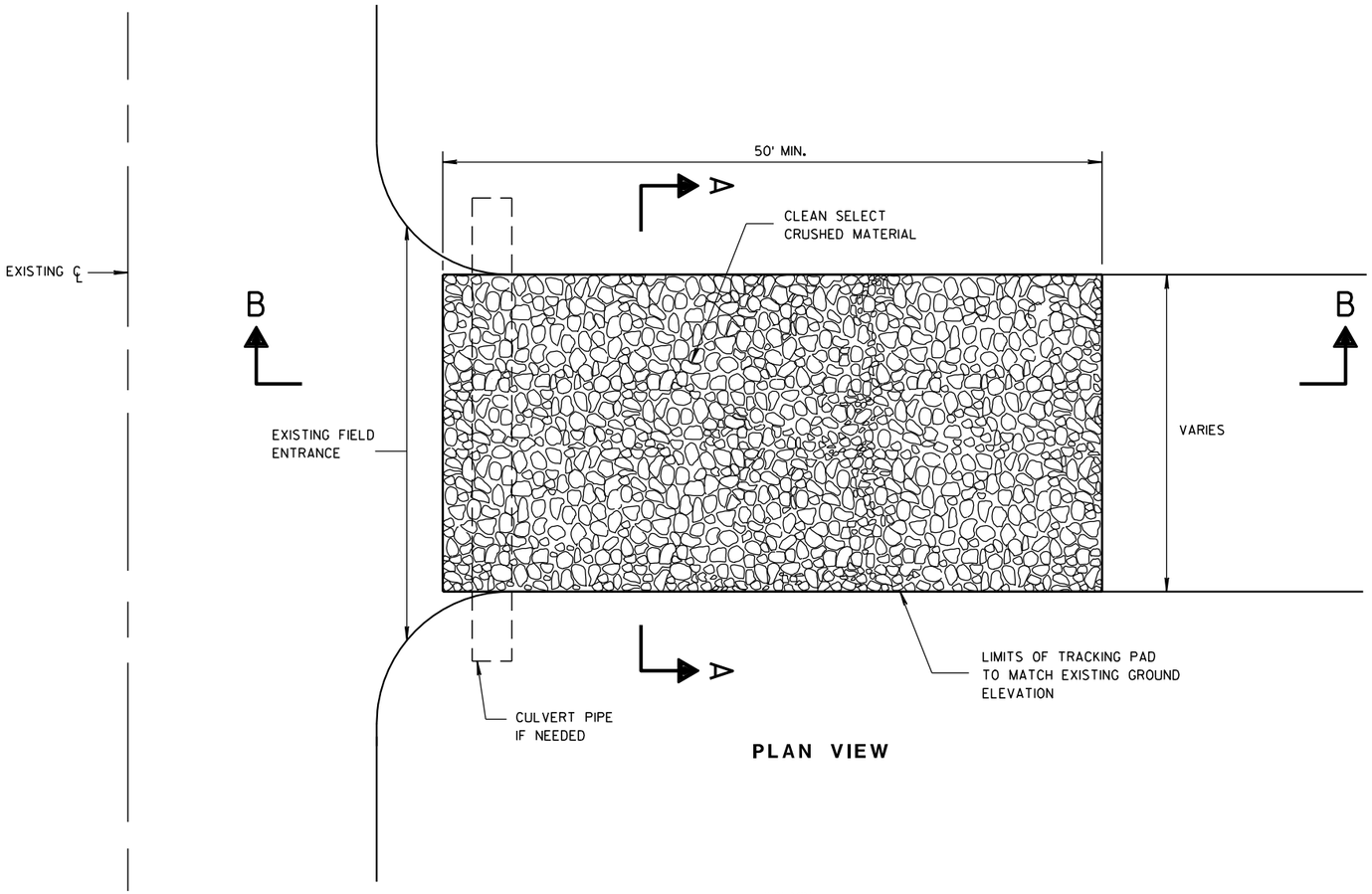
10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

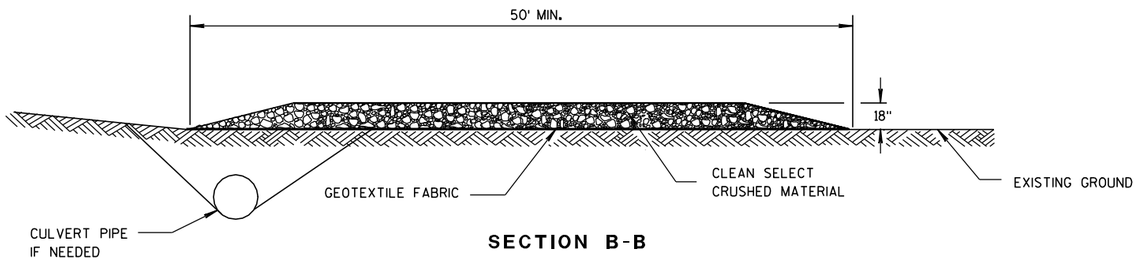
FHWA

6

S.D.D. 8 E 10-2
S.D.D. 8 E 10-2



PLAN VIEW



SECTION B-B

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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

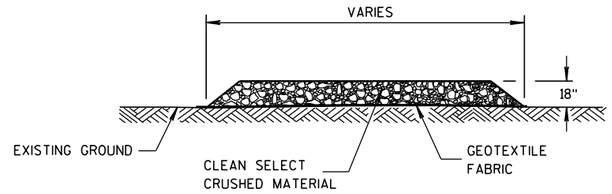
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER
	500 ENT

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

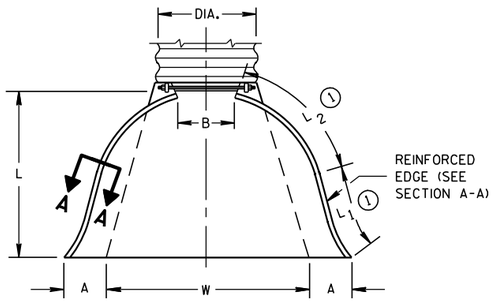
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

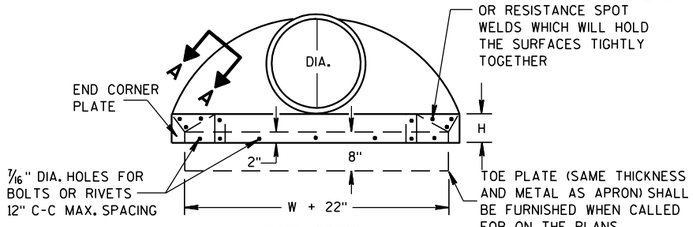
REINFORCED CONCRETE APRON ENDWALLS

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



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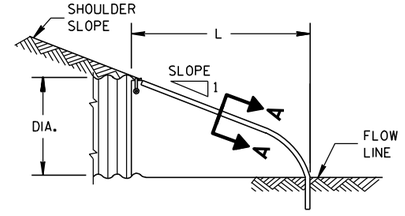
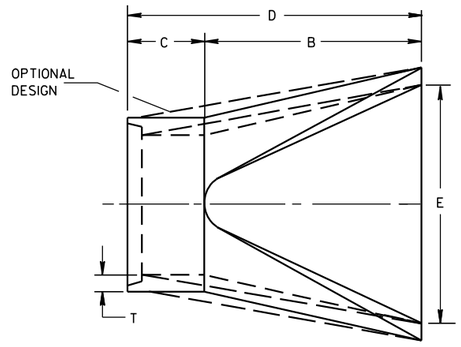
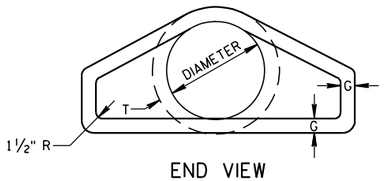


SIDE ELEVATION

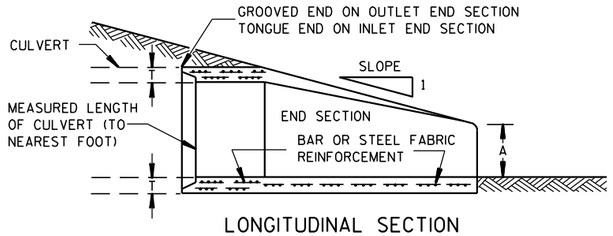
METAL ENDWALLS



PLAN

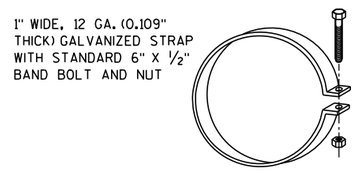


END VIEW



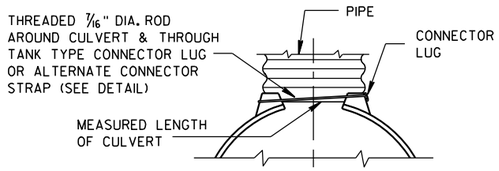
LONGITUDINAL SECTION

CONCRETE ENDWALLS

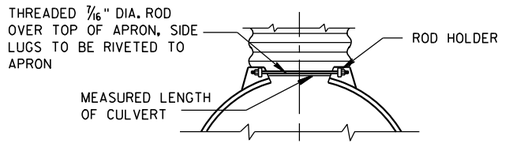


ALTERNATE FOR TYPE 1 CONNECTION

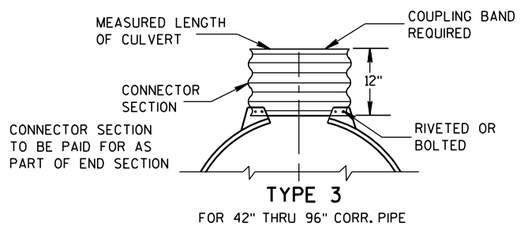
END SECTION CONNECTOR STRAP



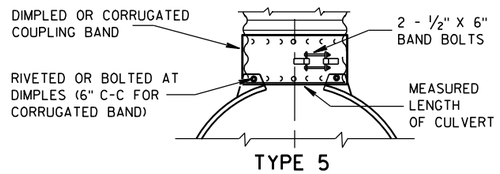
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

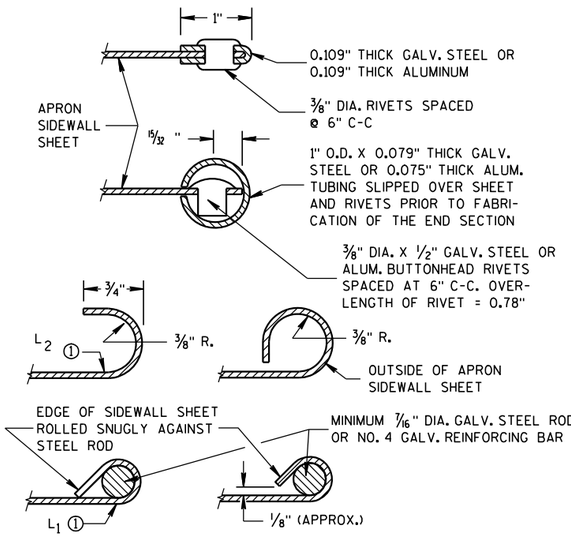
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

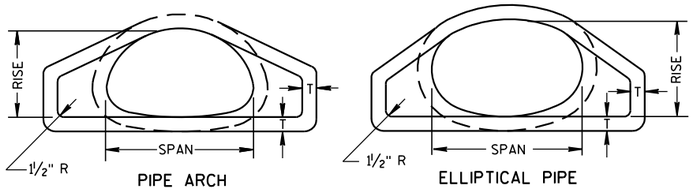
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

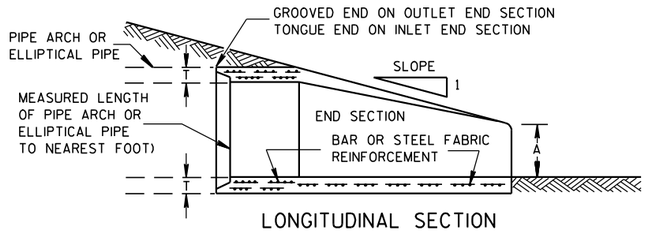
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

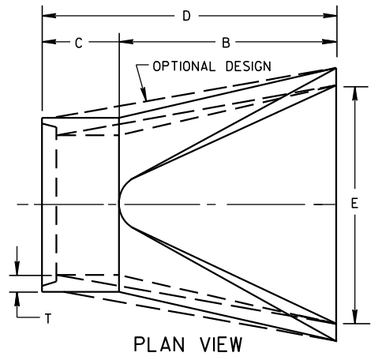
6
S.D.D. 8 F 1-11



END VIEW

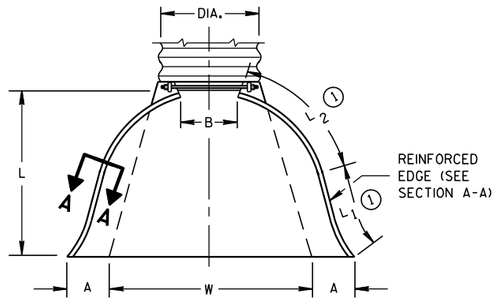


LONGITUDINAL SECTION

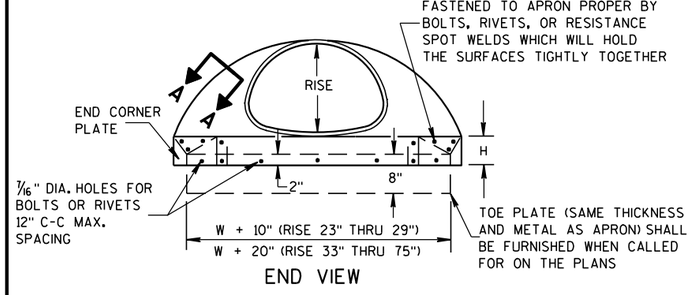


PLAN VIEW

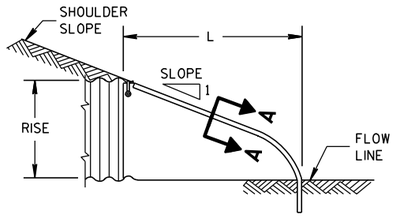
CONCRETE ENDWALLS



PLAN VIEW

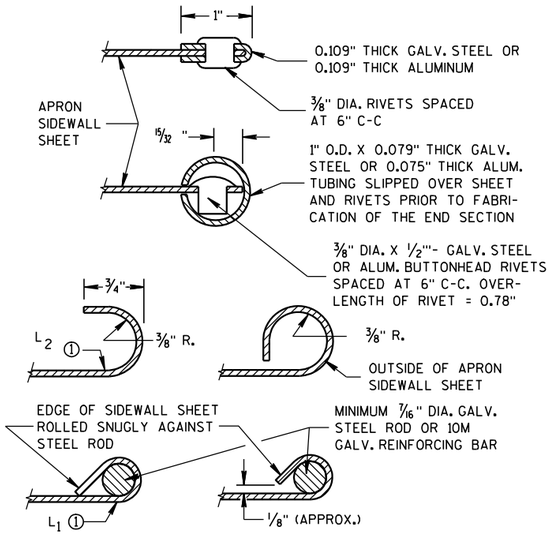


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

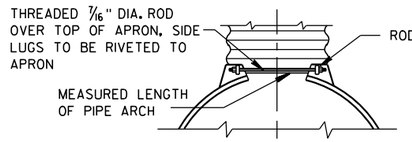
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

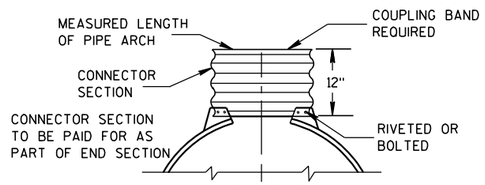
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48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

**NOMINAL SIZE



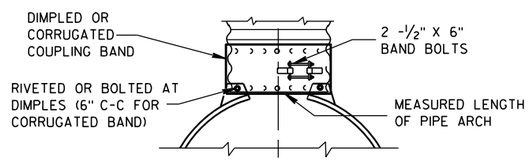
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

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

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 F 2-1

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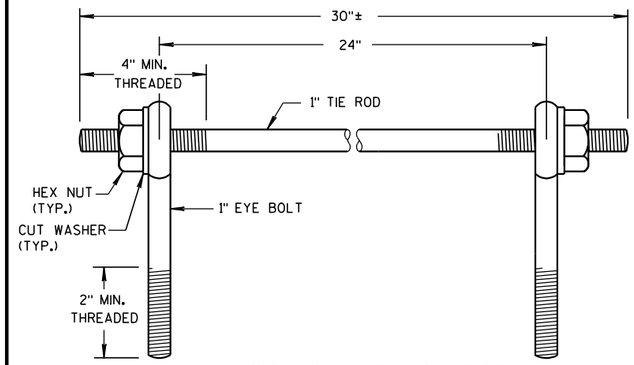
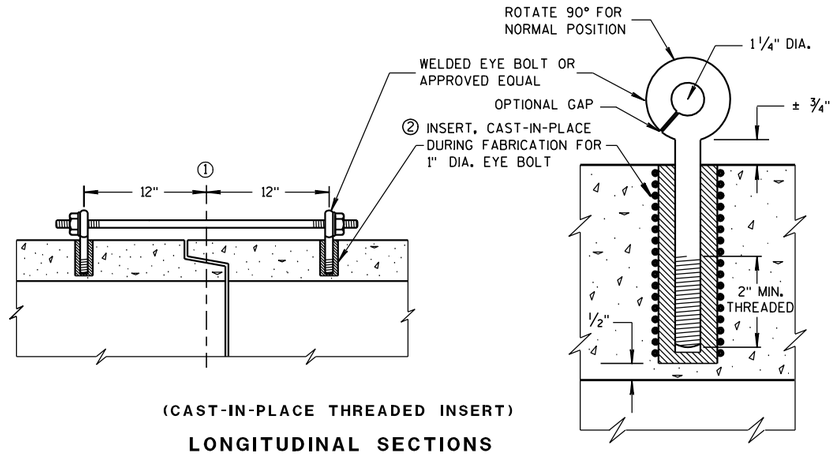
S.D.D. 8 F 2-1



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.

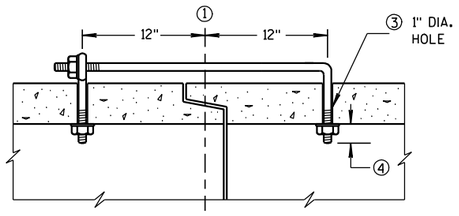
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

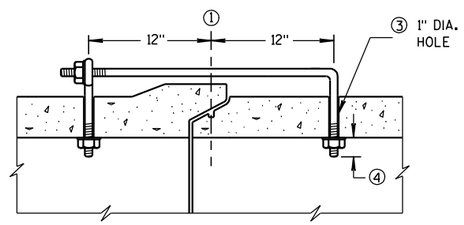
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

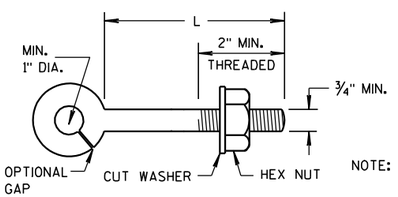


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

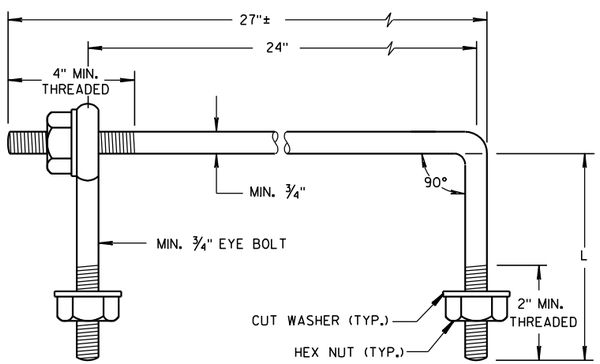
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

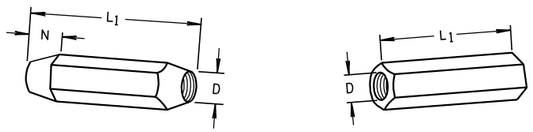
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

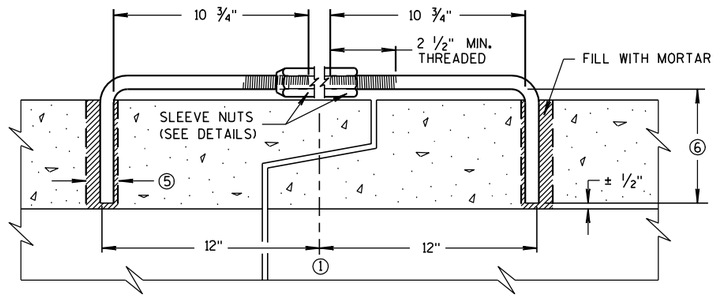
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

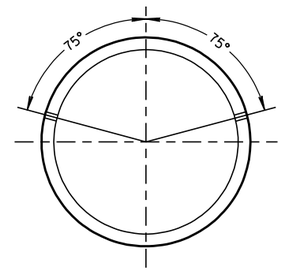
SLEEVE NUTS



LONGITUDINAL SECTION

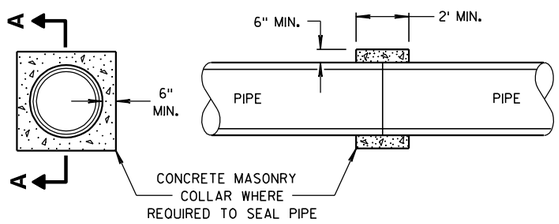
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
503
FHWA

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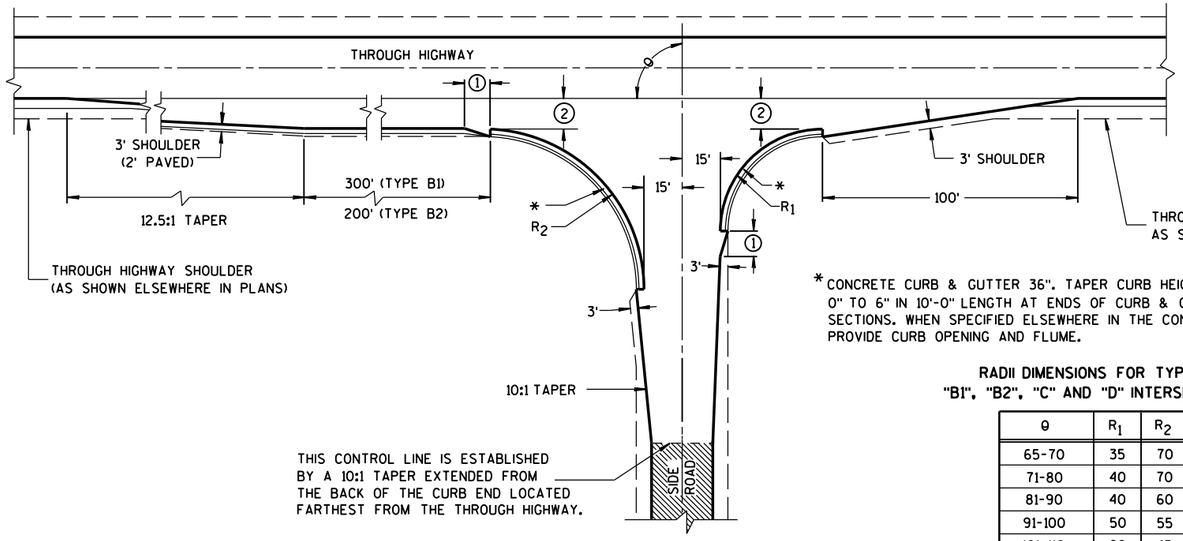
S.D.D. 8 F 4-7

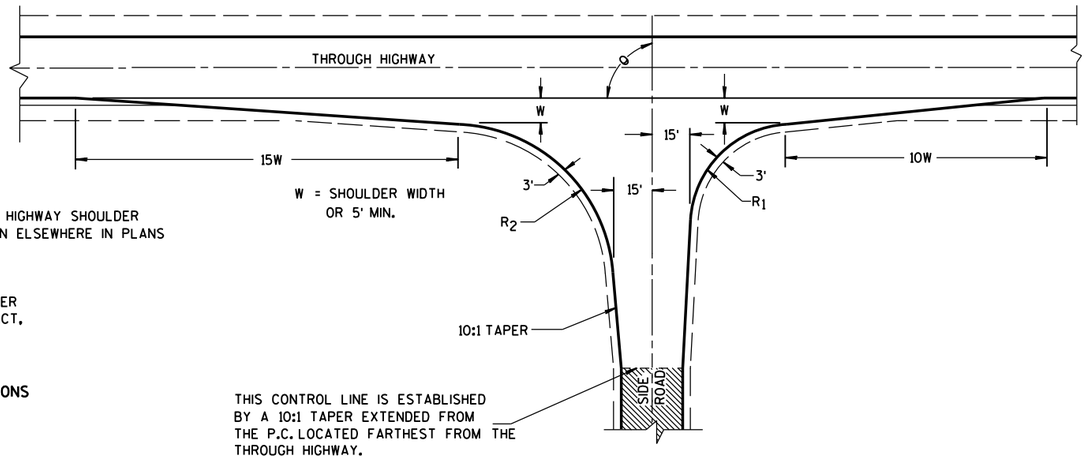


TYPE "B1" AND "B2"

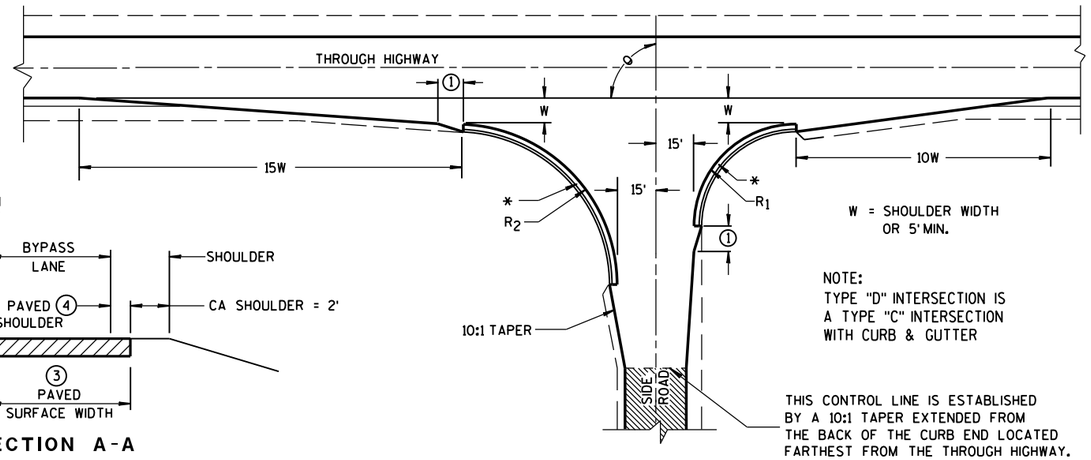
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

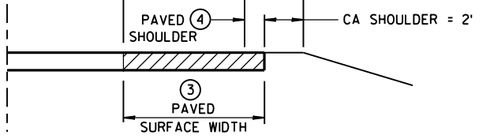
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

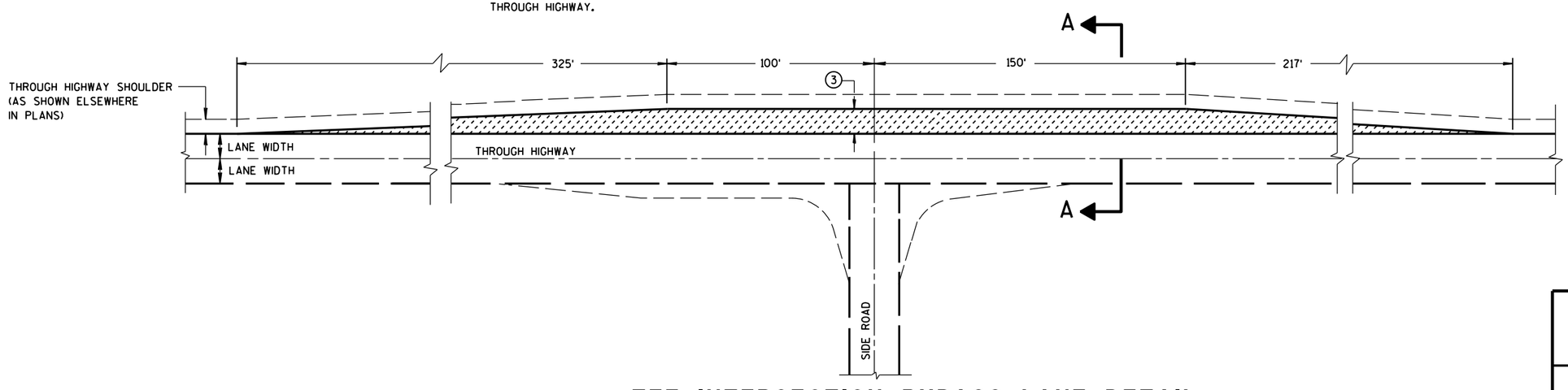
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



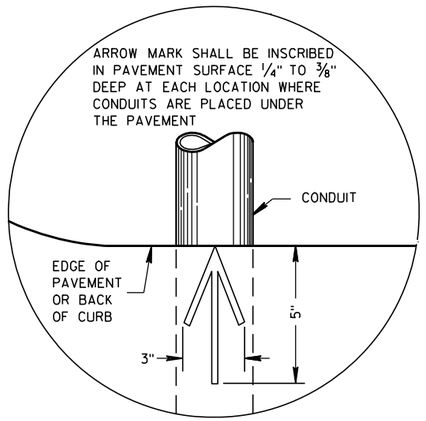
TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

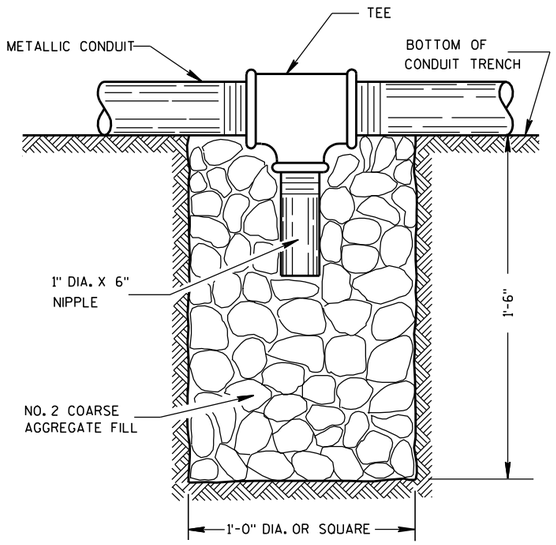
6

S.D.D. 9 A 1-13a



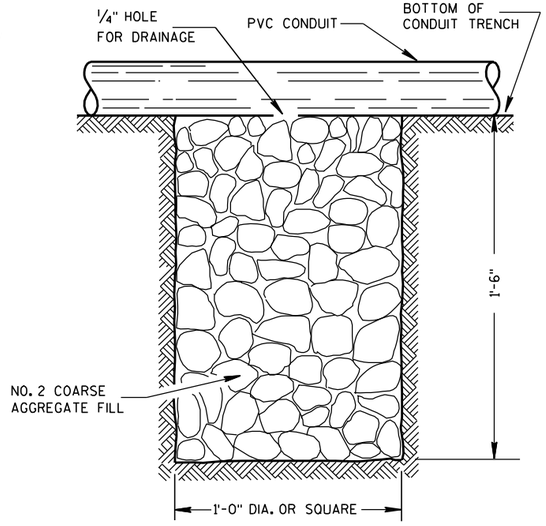
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

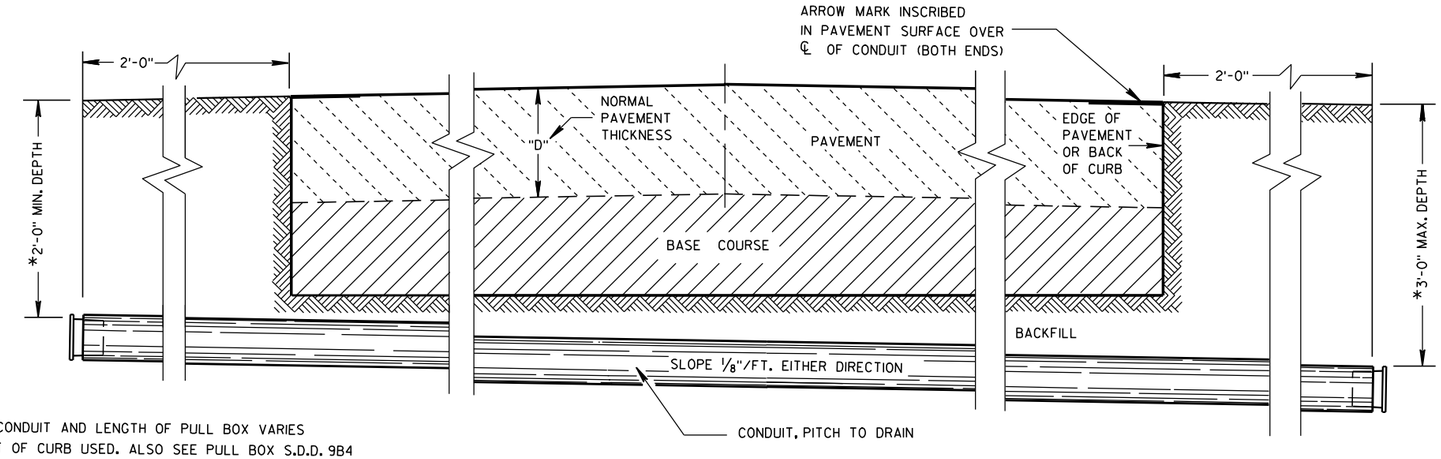
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/23/03 — DATE

/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI 505 HWYS

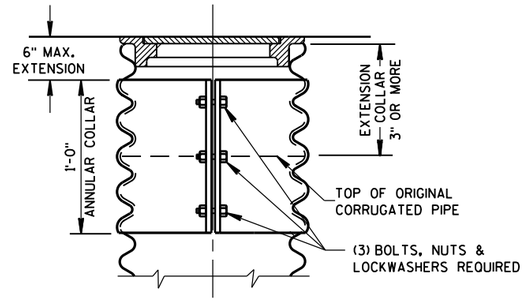
FHWA

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

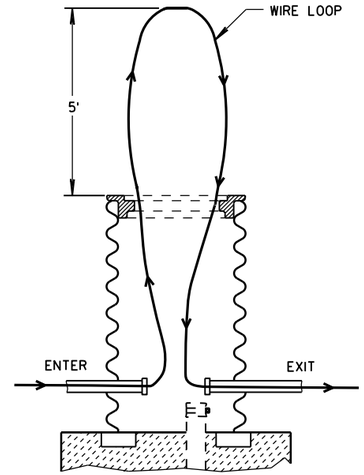
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

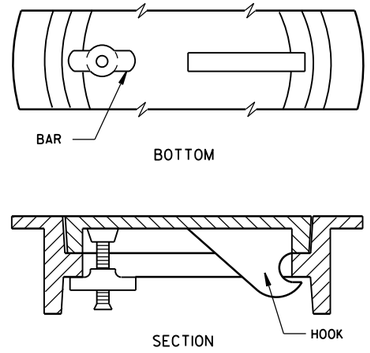
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

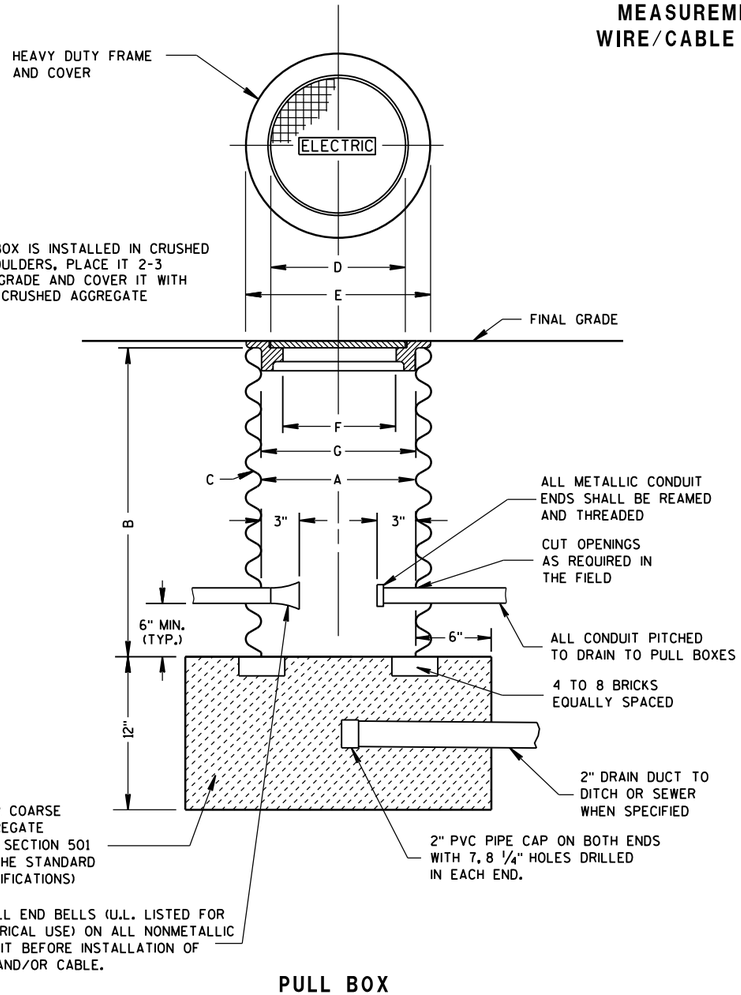


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

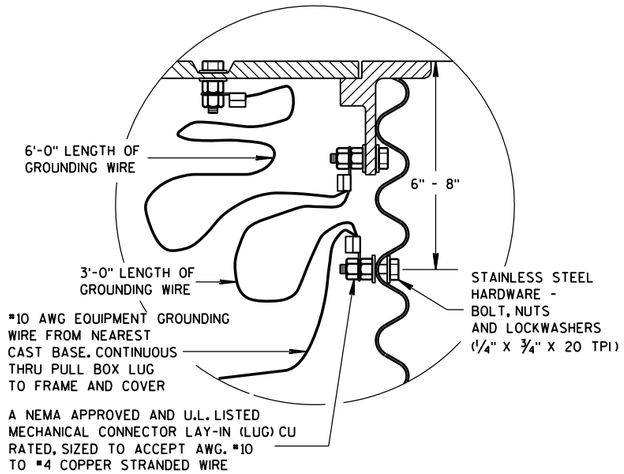


ALTERNATE COVER (LOCKING)

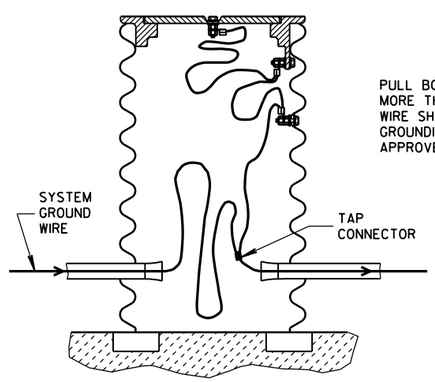
TIGHTENING BAR TYPE



PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2-7-2013 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

FHWA

6

S.D.D. 9 B 4-10

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (92,000 YIELD) HEAVY HEX NUT AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

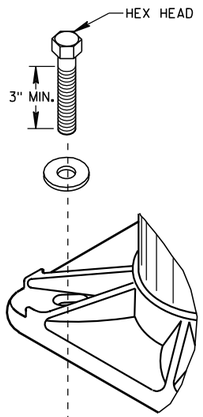
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

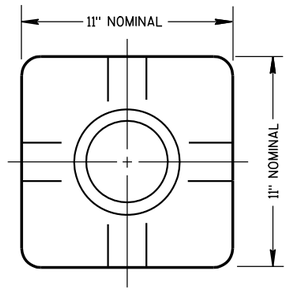
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

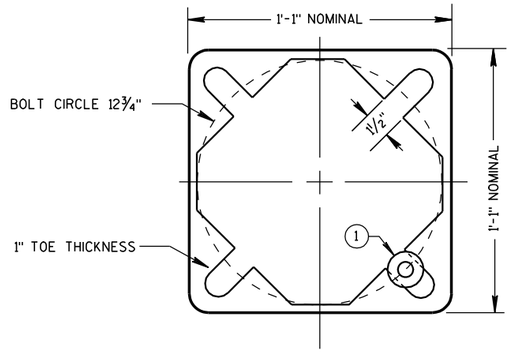
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1½", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

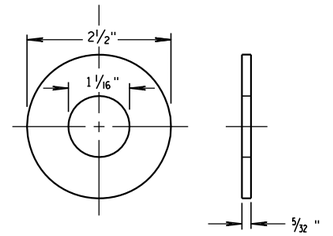




TOP VIEW
(PEDESTAL BASE)

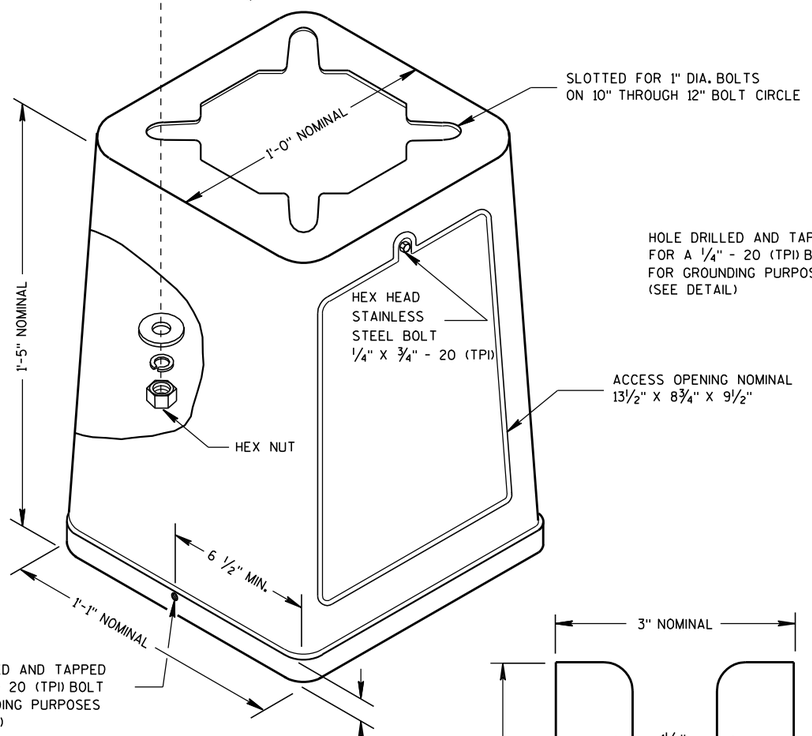


BOTTOM VIEW
(PEDESTAL BASE)

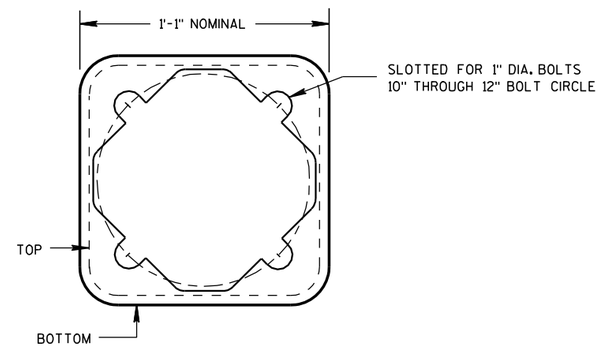


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

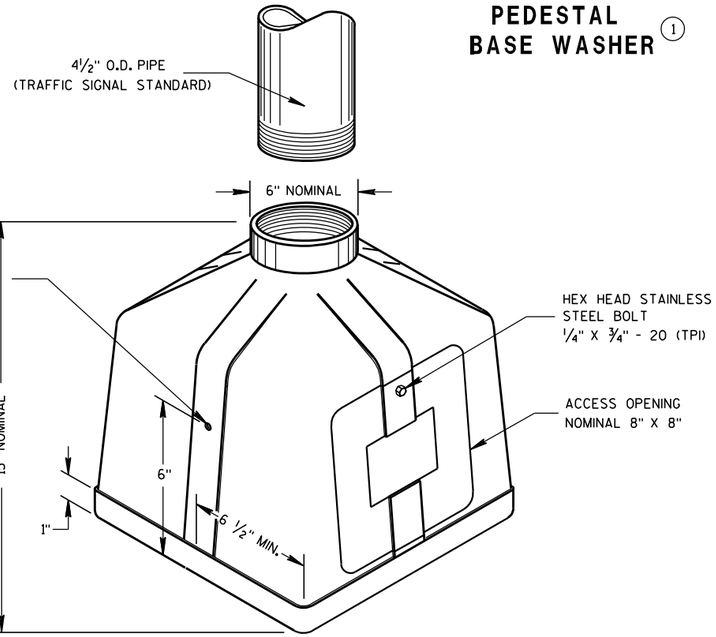
PEDESTAL BASE WASHER (1)



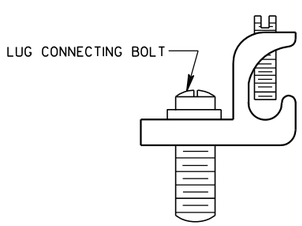
ISOMETRIC VIEW



BOTTOM VIEW
(TRANSFORMER BASE)

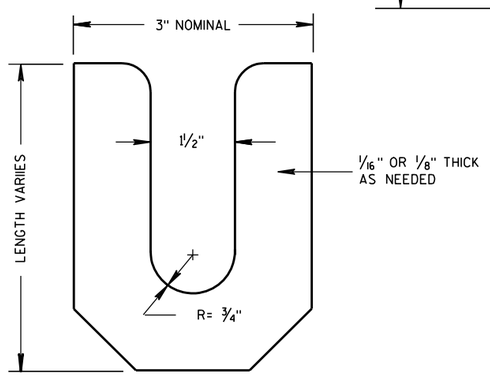


ISOMETRIC VIEW
PEDESTAL BASE



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/27/09 DATE	/S/ Joanna L. Rich STATE ELECTRICAL ENGI 507 HWYS
FHWA	

6

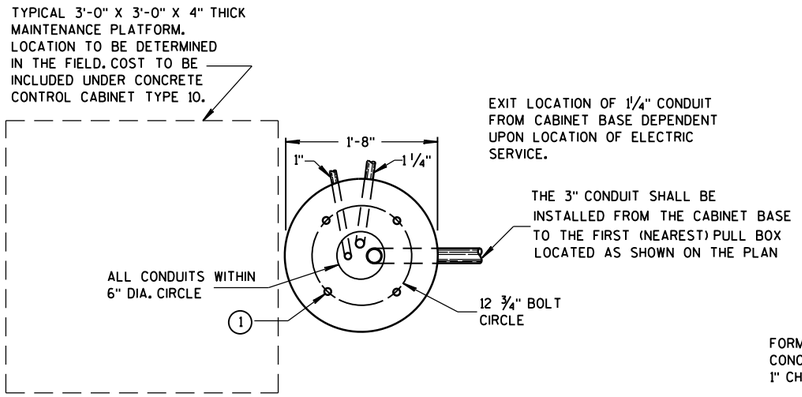
S.D.D. 9 C 3-3

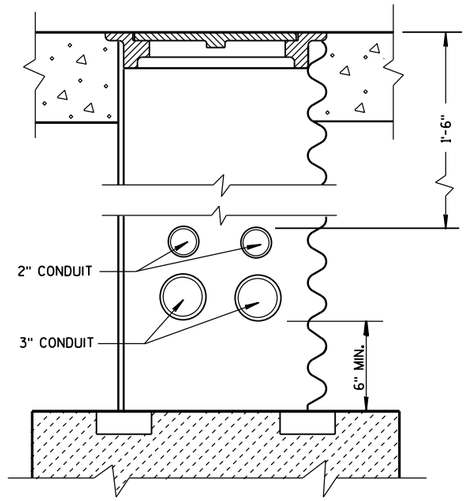
6

S.D.D. 9 C 3-3

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65 *

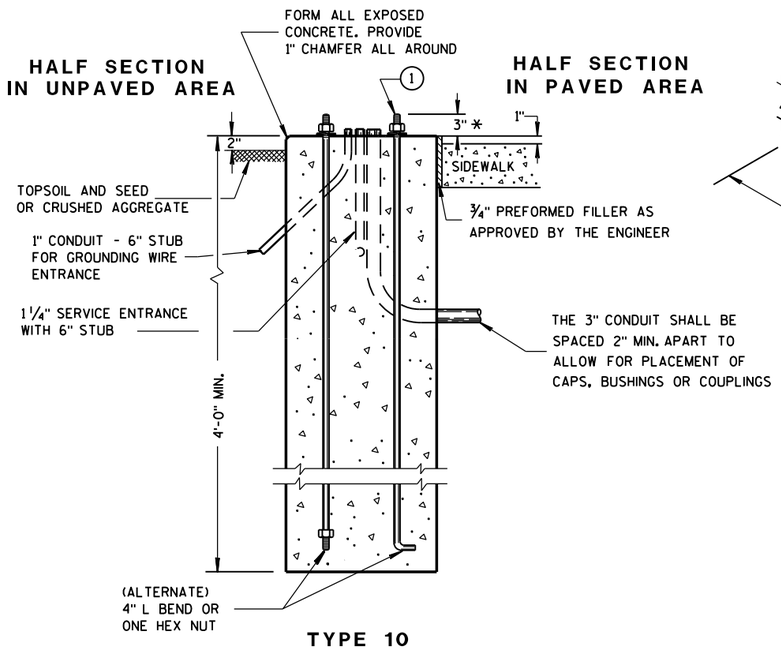
* INCLUDES MAINTENANCE PLATFORM.



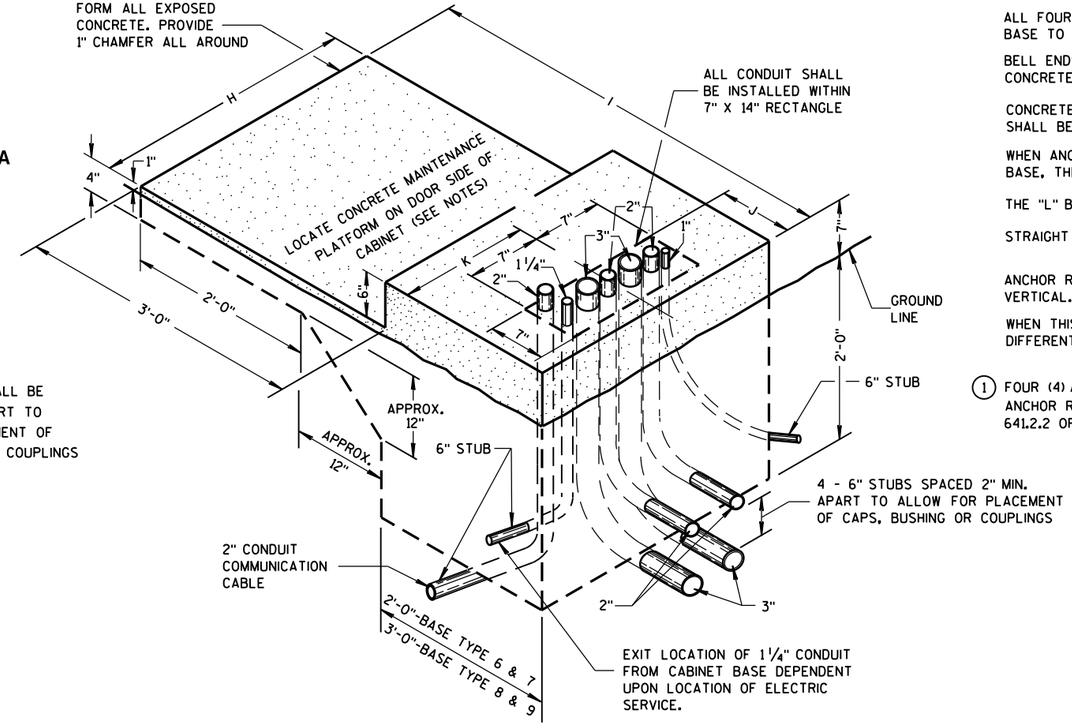


CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)



TYPE 10



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

GENERAL NOTES

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

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WHEN THIS DRAWING IS USED FOR STREET LIGHTING CABINET BASES, CONDUIT MAY BE DIFFERENT AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/26/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 508
FHWA

6
S.D.D. 9 C 5-8

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE 1" X 3'-6".

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

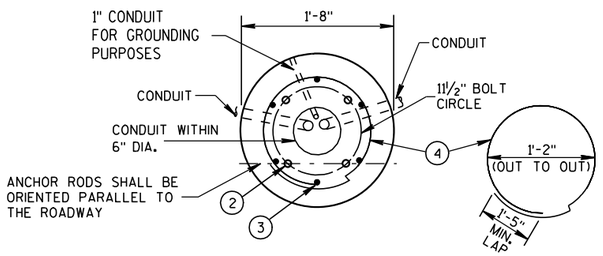
BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS

(3) (6) NO. 4 X 4'-8" BAR STEEL REINFORCEMENT.

(4) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

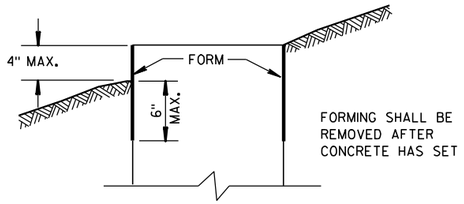


CONCRETE BASE, TYPE 6 (FOR 35' LIGHT POLES)

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	0.4
LBS. OF HOOP BAR STEEL	16
LBS. OF VERTICAL BAR STEEL	18

CONCRETE BASE, TYPE 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/3/10 DATE — /S/ Joanna L. Pinch STATE ELECTRICAL ENGI — HWYS

FHWA

6

S.D.D. 9 C 7-4

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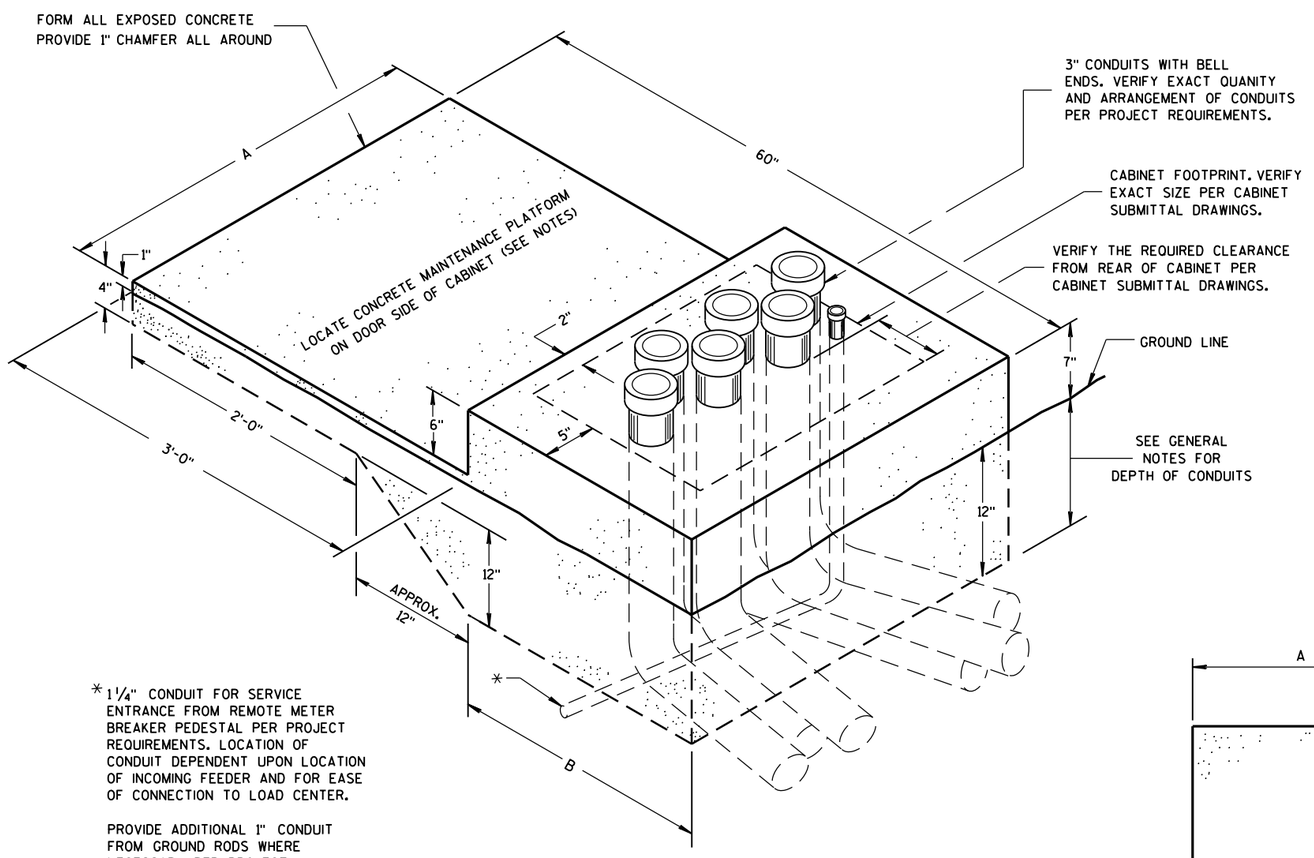
S.D.D. 9 C 7-4



* 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

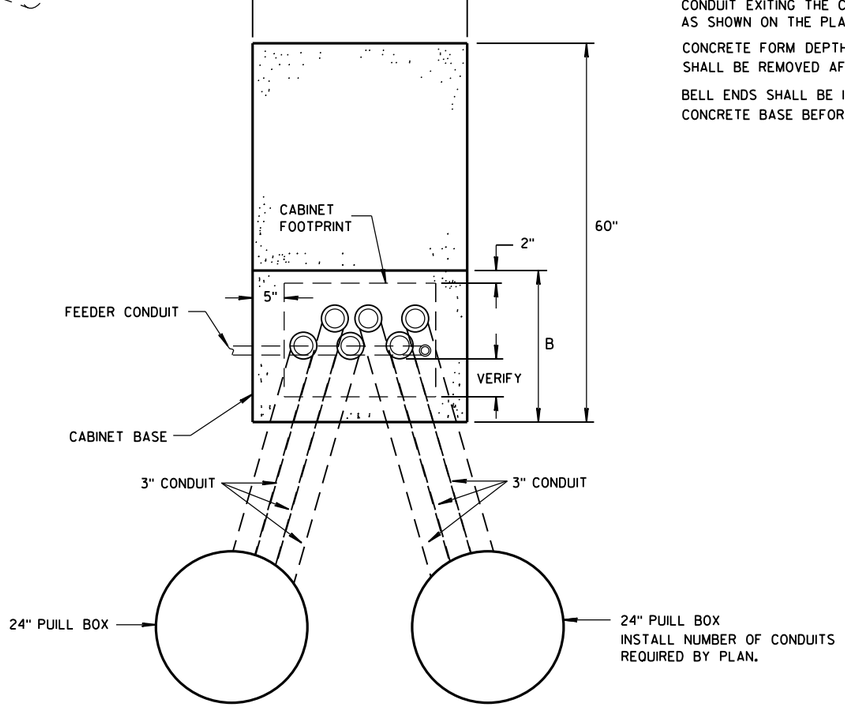
PROVIDE ADDITIONAL 1" CONDUIT FROM GROUND RODS WHERE NECESSARY PER PROJECT REQUIREMENTS.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS	
		A	B
L24	24"	34"	24"
L30	30"	40"	24"



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINE
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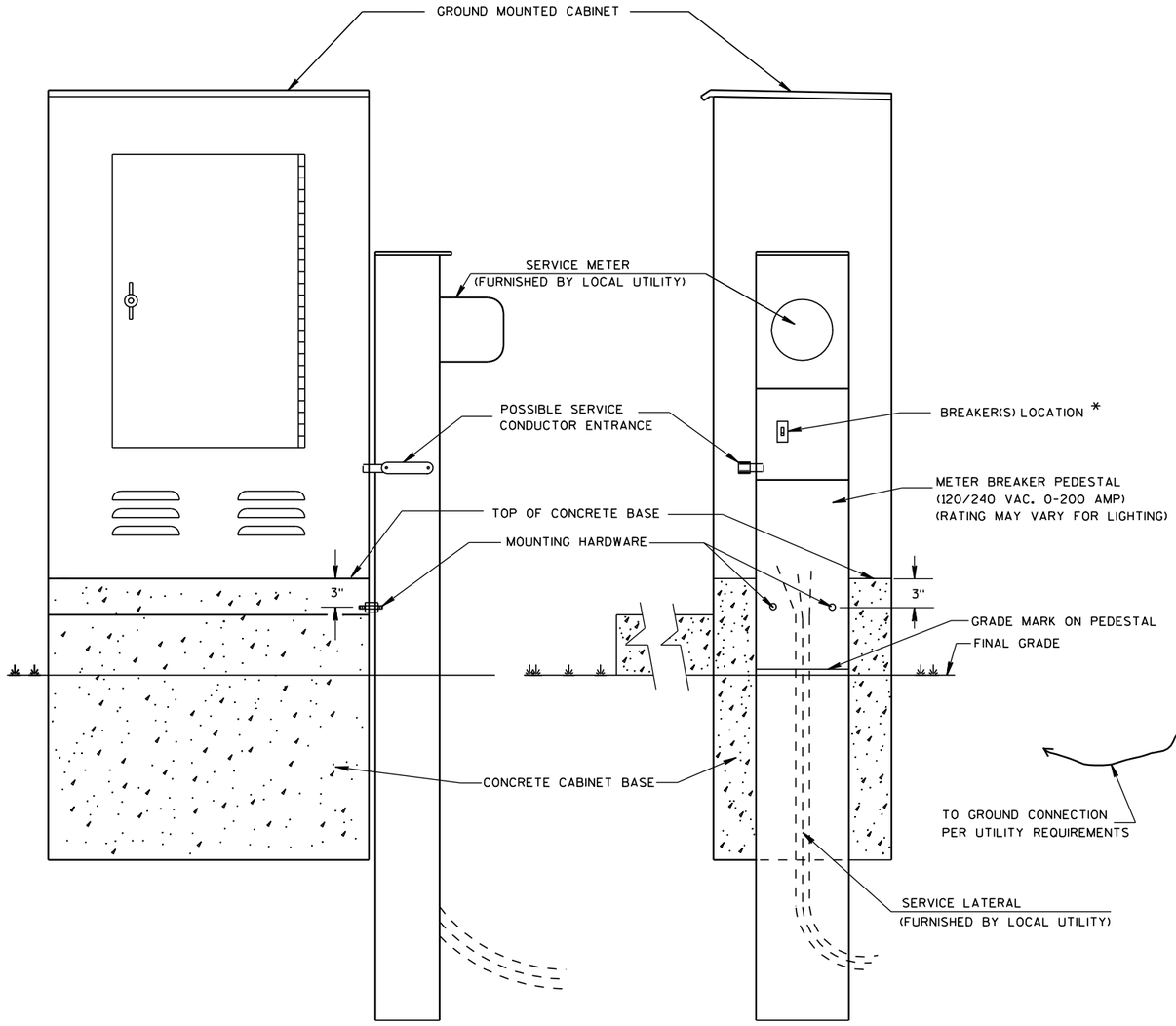

TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/27/09 — DATE

/S/ Joanna L. Bush — STATE ELECTRICAL ENGI

511

HWYS

FHWA

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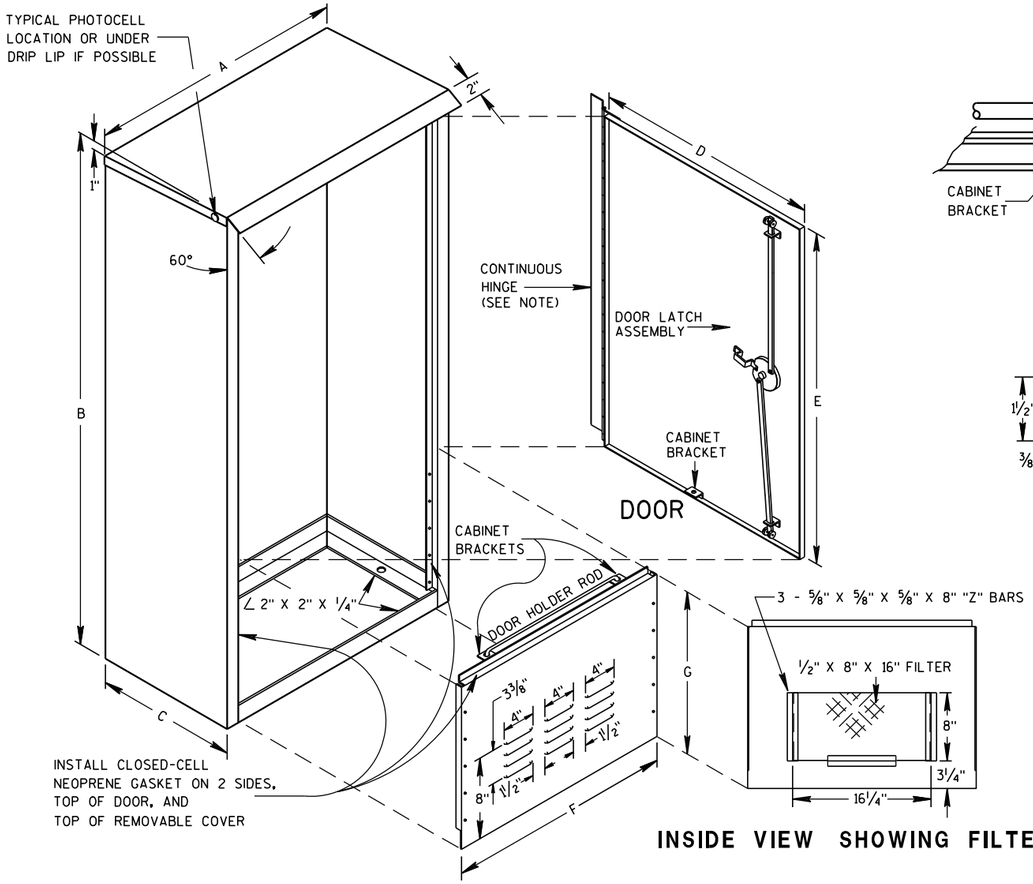
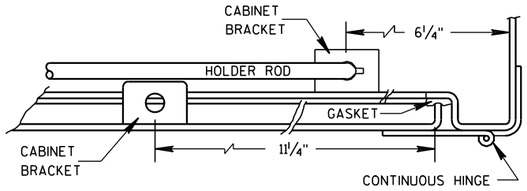
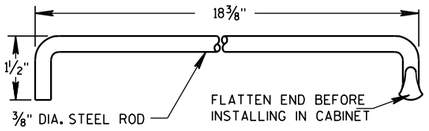


REMOVABLE COVER

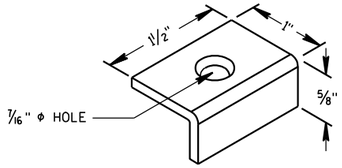
INSIDE VIEW SHOWING FILTER



HINGE & DOOR HOLDER



HOLDER ROD

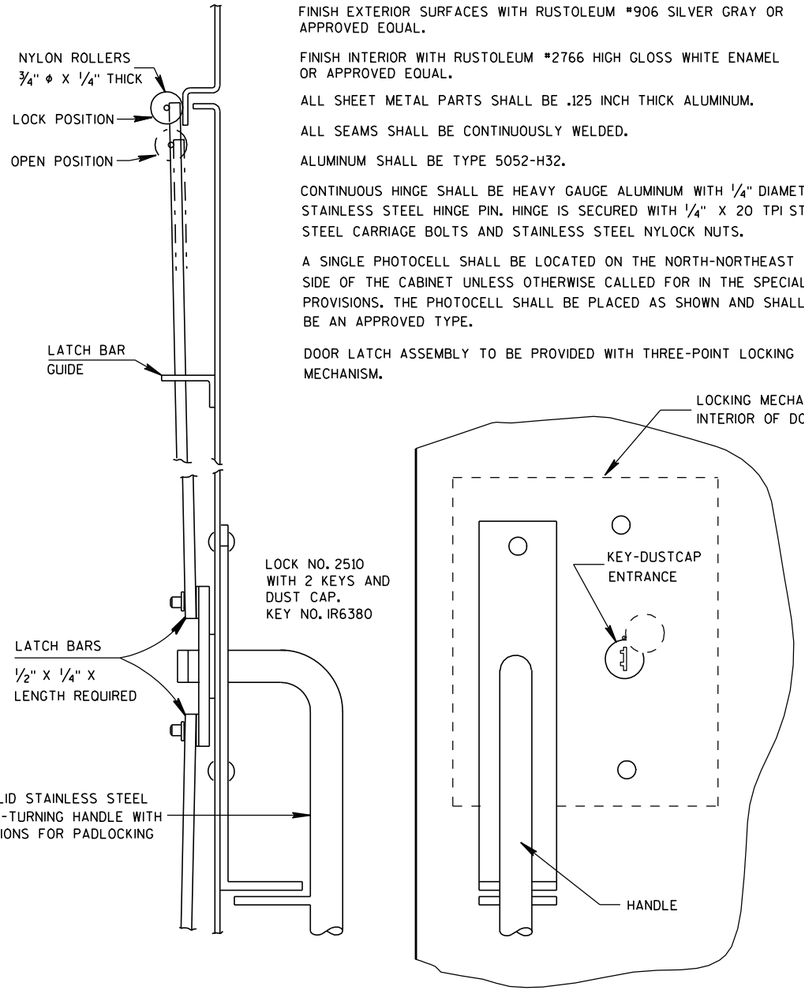


CABINET BRACKET

MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

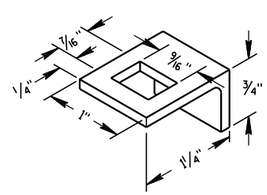
MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

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.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.

SIGNAL OR LIGHTING CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/21/96 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI
512
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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.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

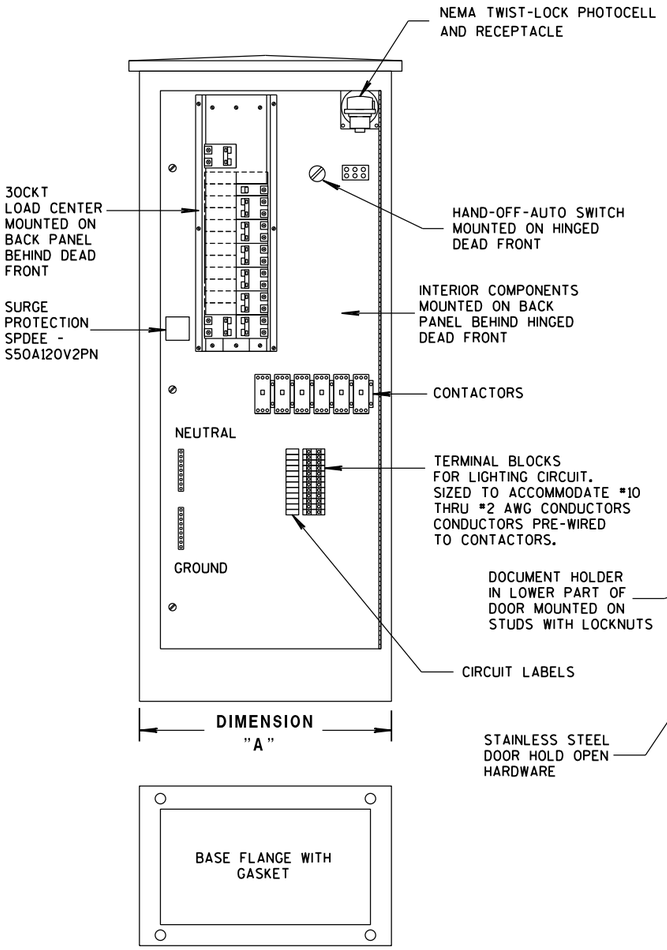
ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

FRONT INTERIOR ELEVATION



SIDE VIEW

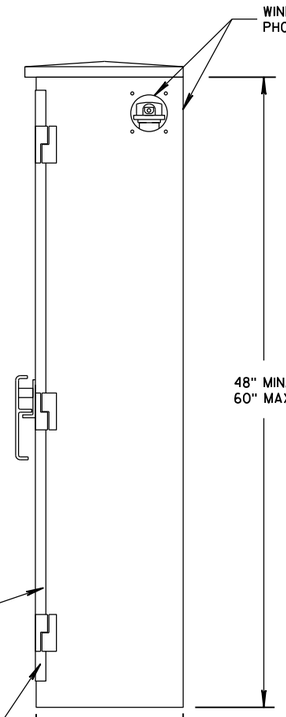
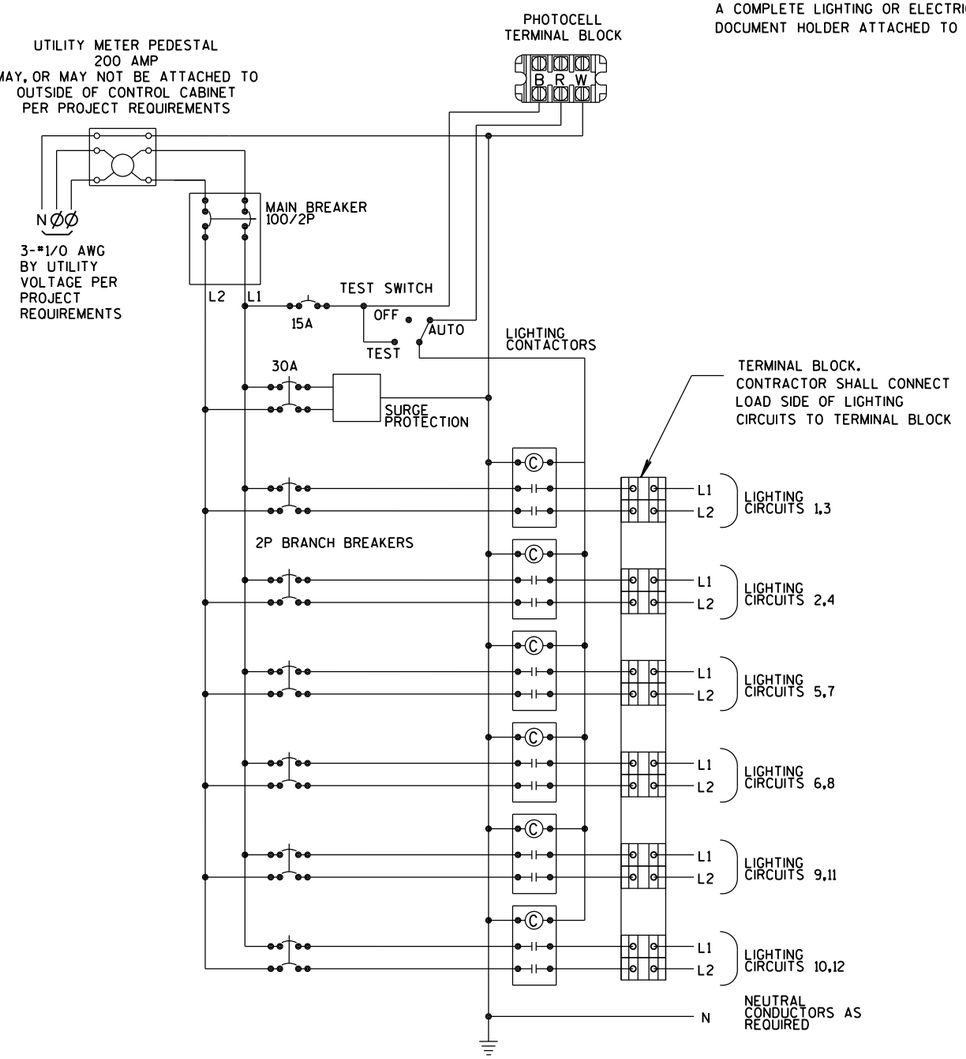


TABLE OF DIMENSIONS (INCHES)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"



CONTROL CABINET SCHEMATIC

LIGHTING CONTROL CABINET

LIGHTING CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINEER
FHWA

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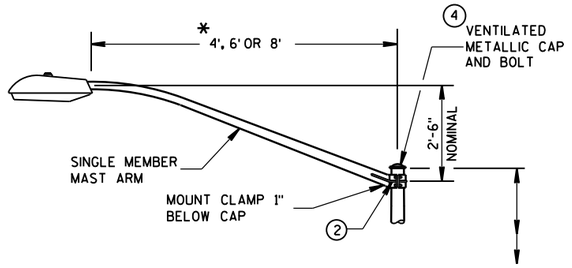
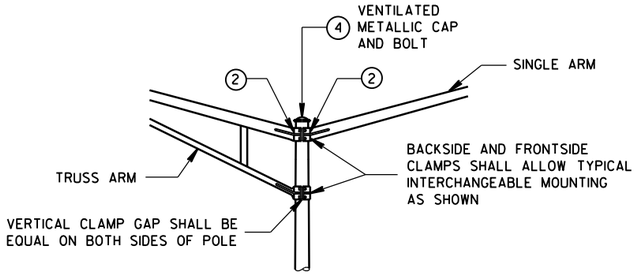
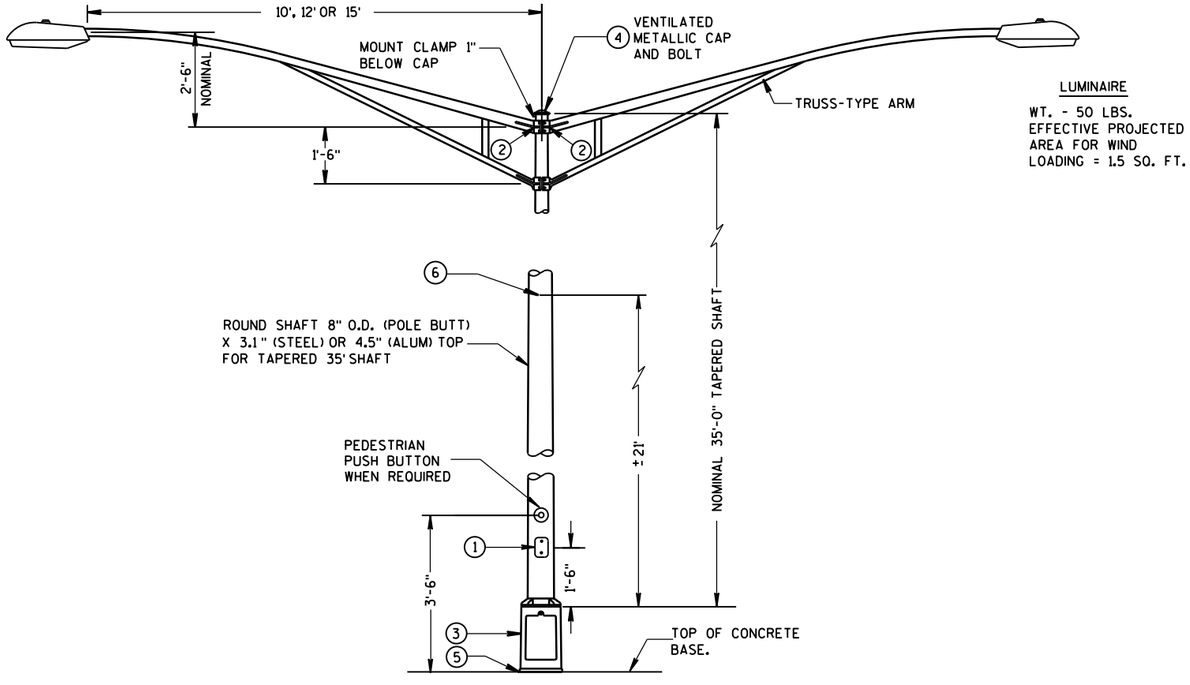
* RISE FOR 4' ARM SHALL BE 2'-0".





INTERCHANGEABLE MOUNTING DETAIL



TYPE 6 POLE MOUNTING CONFIGURATION

(MAXIMUM LOAD)

LIGHTING ONLY

GENERAL NOTES

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

ALL TYPE 6 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE EITHER GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 6 ALUMINUM POLES, SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 6 ALUMINUM POLES SHALL HAVE MINIMUM WALL THICKNESS OF 0.219".

TYPE 6 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6 (35 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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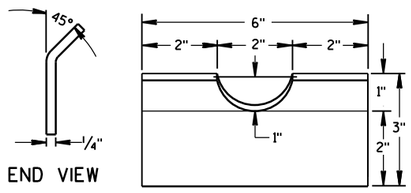
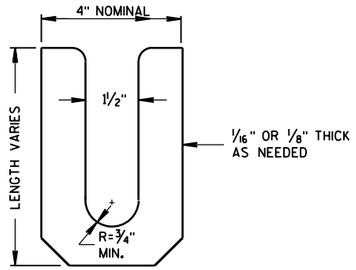


FRONT VIEW

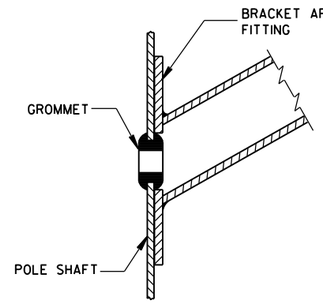
RECTANGULAR CLAMP SHIM

(4 TO A SET)

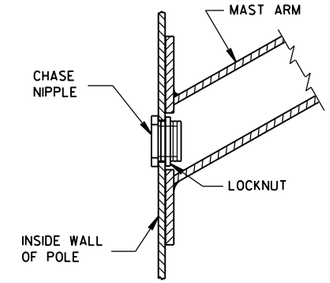


LEVELING SHIM (15)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) OUTSIDE SHIM DIAMETER - (4.5" O.D. FOR LUMINAIRE MAST ARM)
(6.625" O.D. FOR TROMBONE MAST ARM)

(14) VARIABLE SHIM THICKNESS - (0.10", 0.25", 0.35", 0.53" OR 0.70")

SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 0.25", 0.35", 0.53" OR 0.70".

SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 0.10", 0.25" OR 0.35".

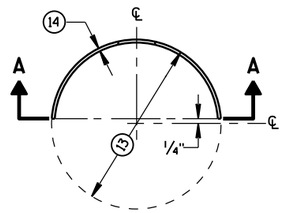
SHIM MATERIAL SHALL BE ALUMINUM ALLOY.

SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 1/4" HIGH AND LEGIBLE.

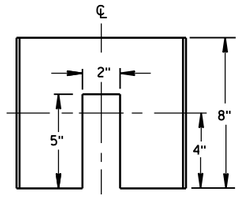
THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

(15) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



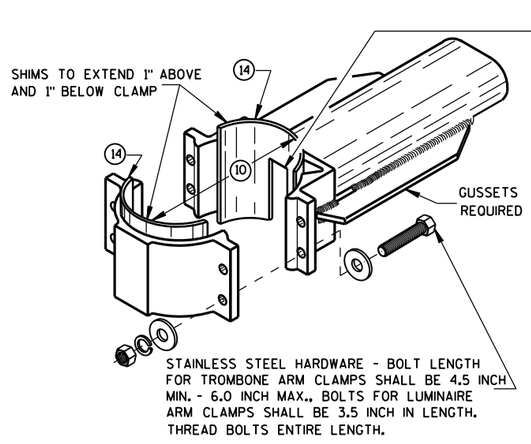
PLAN VIEW



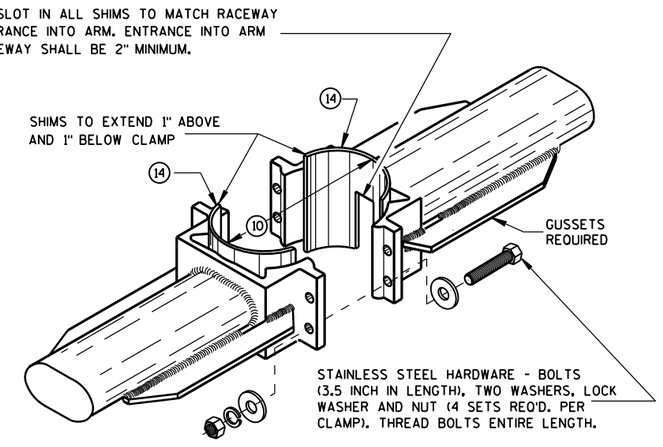
SECTION A-A

CIRCULAR CLAMP SHIM

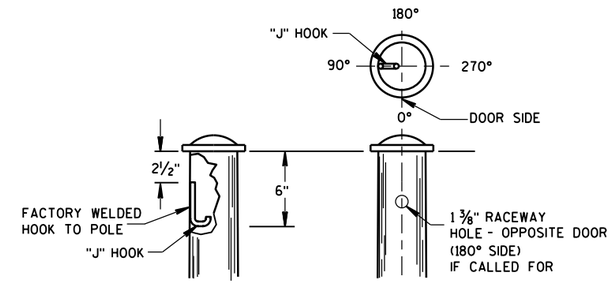
(2 TO A SET)



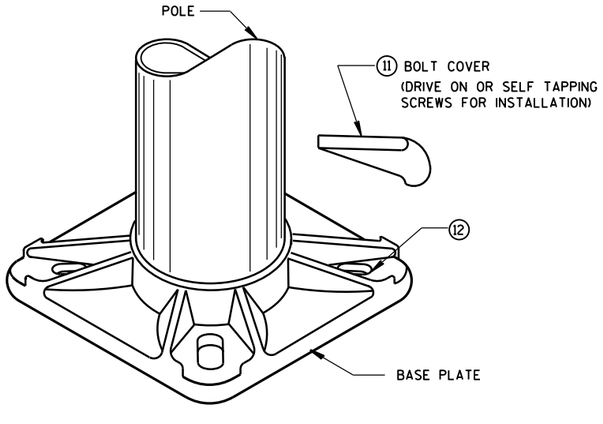
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



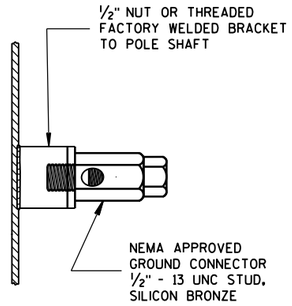
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

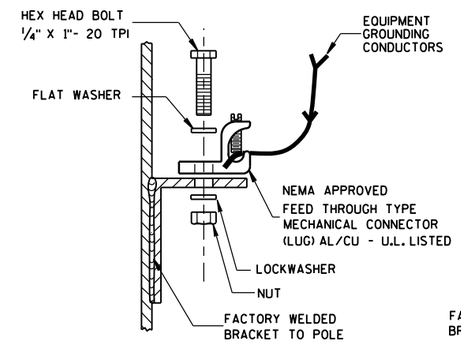


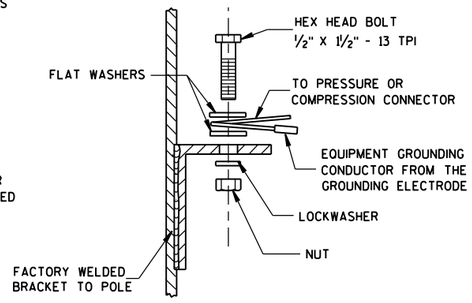
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

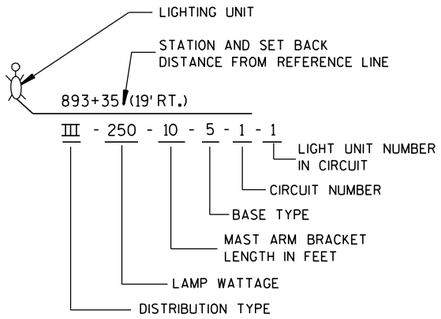
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTINGS

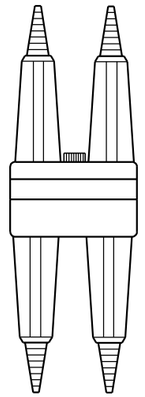
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/7/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 515
FHWA

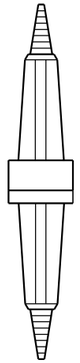
6
S.D.D. 9 E 1-12g



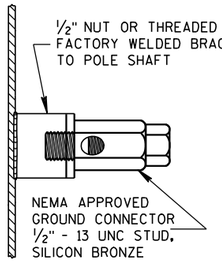
LIGHTING UNIT CODE
(TYPICAL)

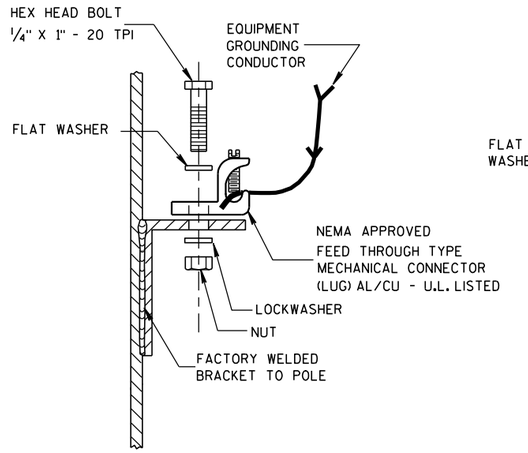


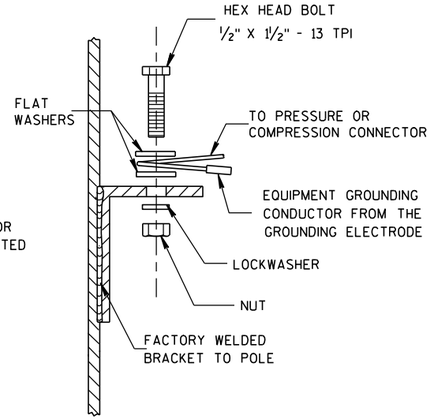
DETAIL "A"
BREAKAWY
DOUBLE POLE WITH
WATERPROOF
INSULATING BOOT



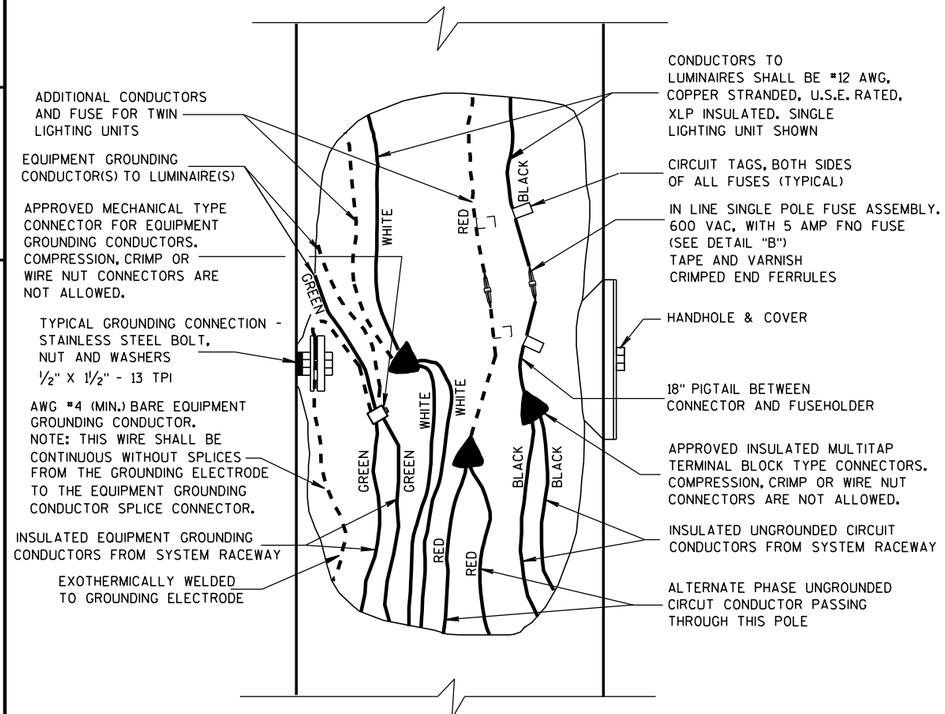
DETAIL "B"
BREAKAWY
SINGLE POLE WITH
WATERPROOF
INSULATING BOOT



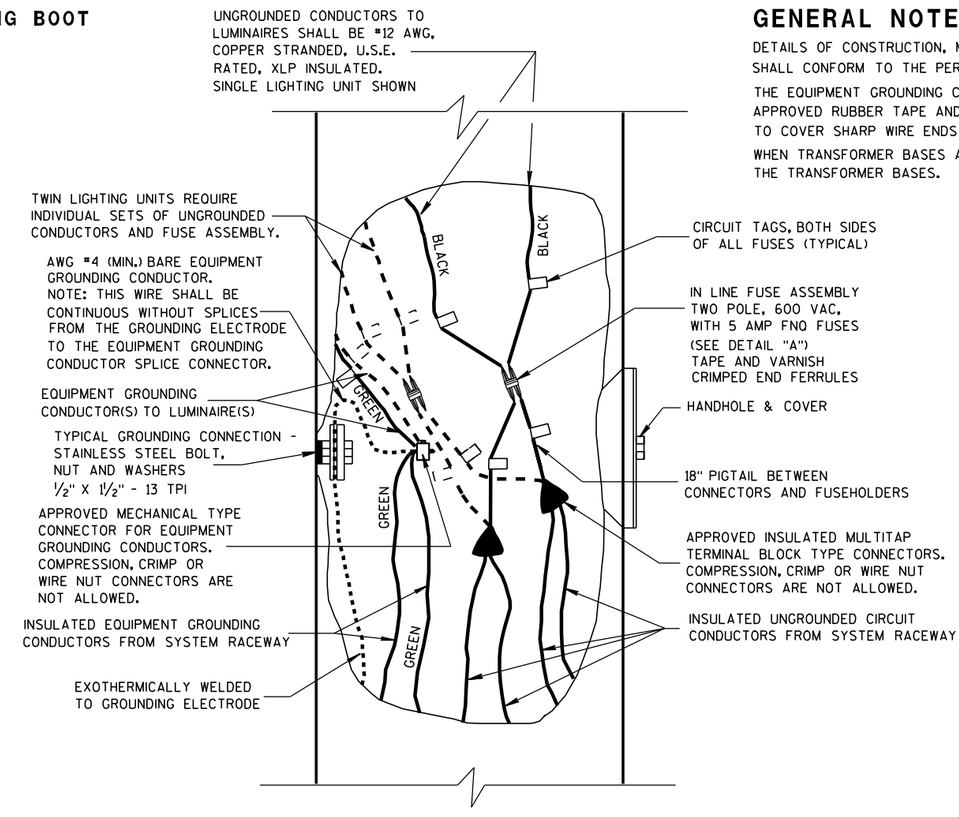




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

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

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/2/2011 — DATE

/S/ Thomas J. Gosnine — STATE ELECTRICAL ENGI

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HWYS

FHWA

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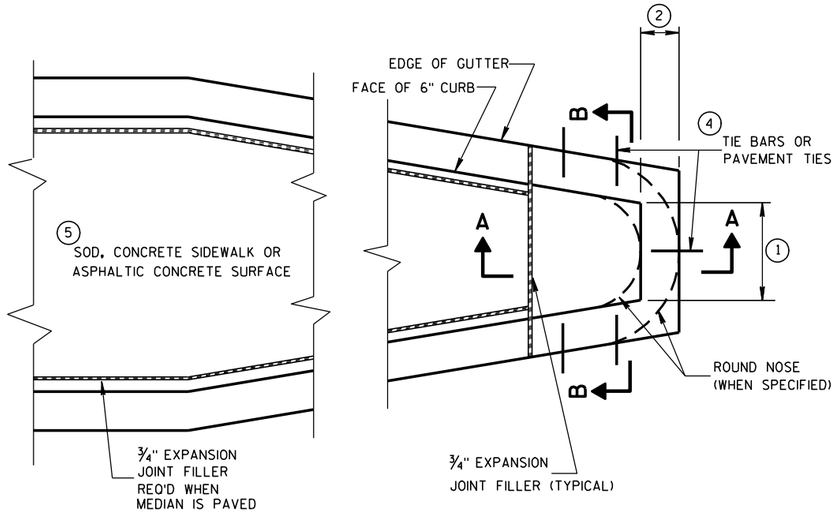
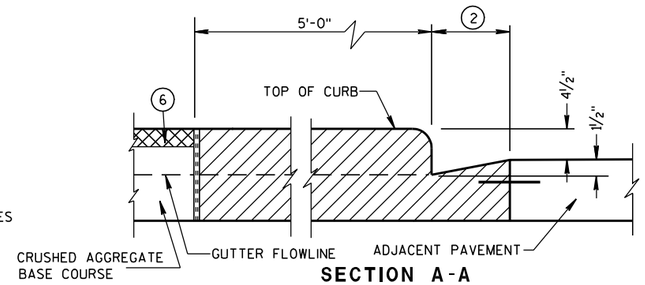
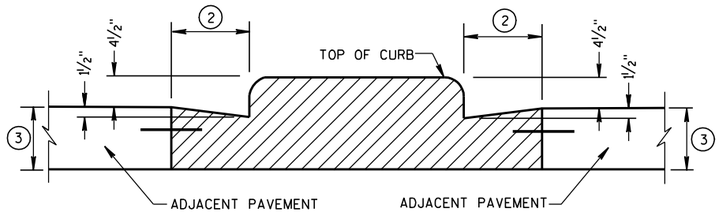
S.D.D. 9 E 3-4





SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

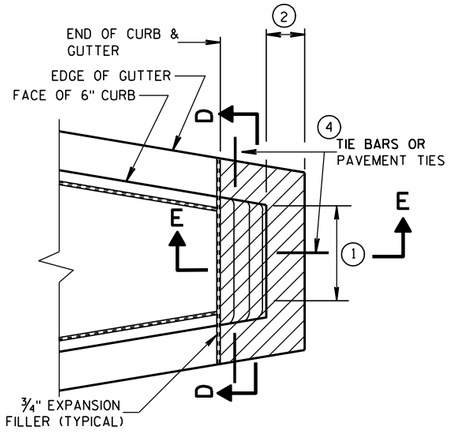
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

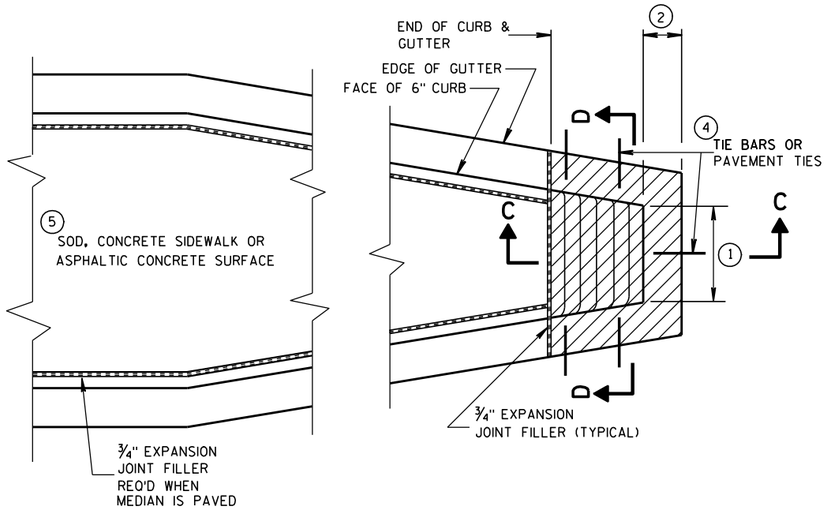
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

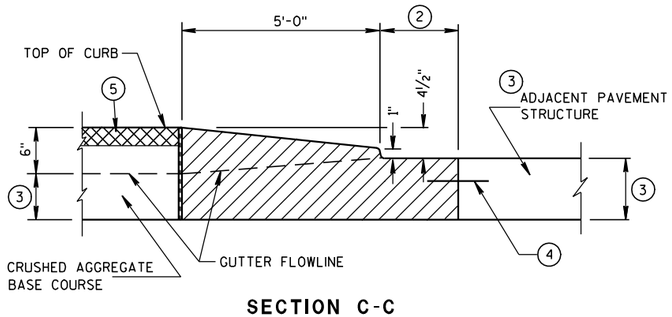
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

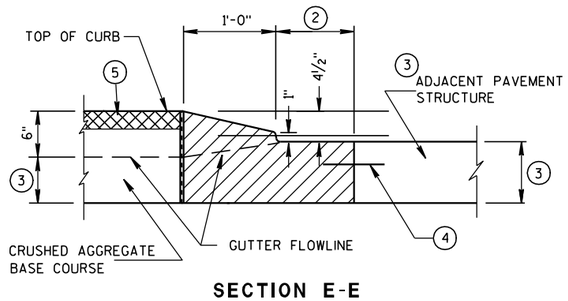
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.







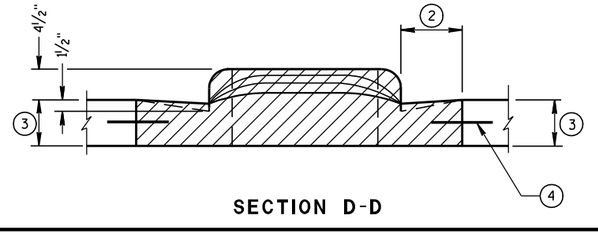
SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE FHWA	/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER 517 NT

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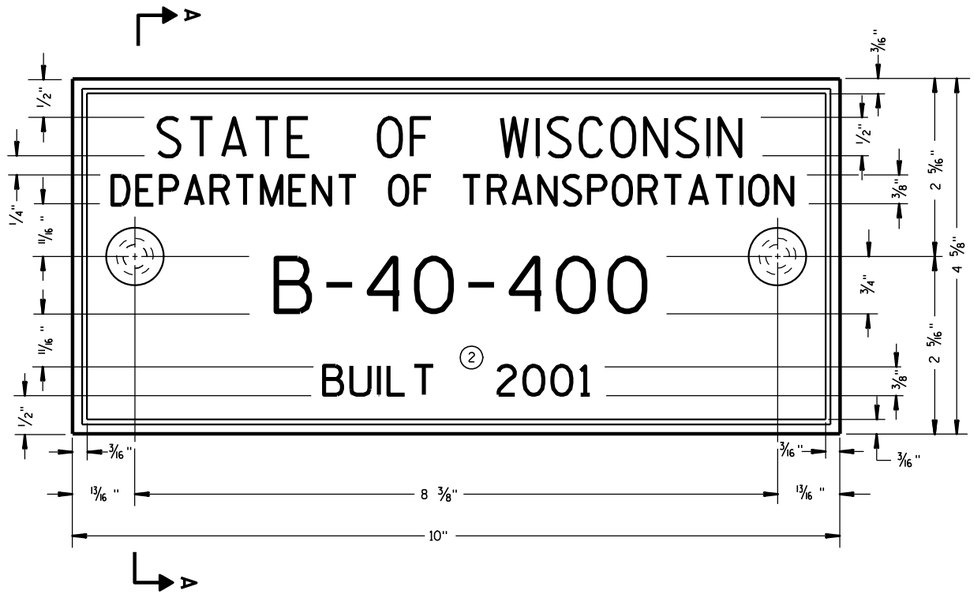
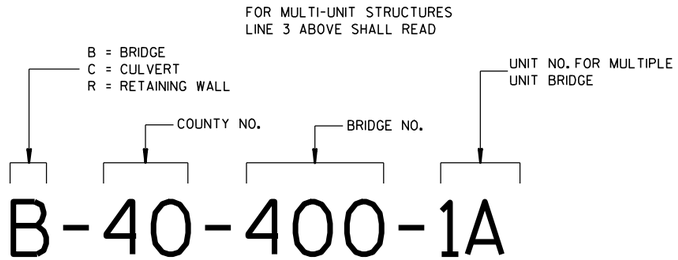


TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

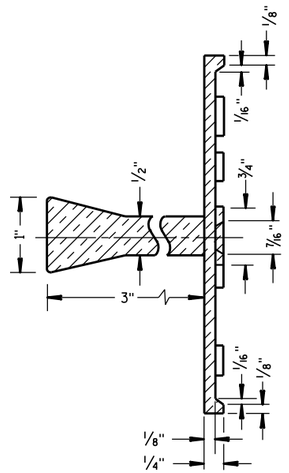
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

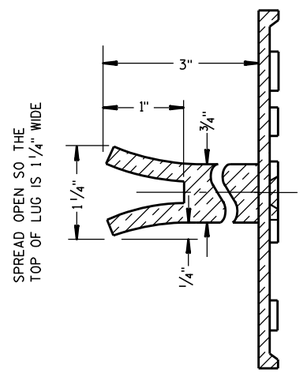
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

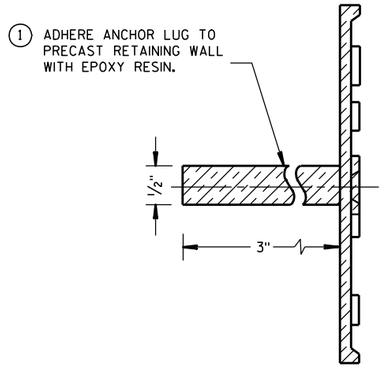
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE — /S/ Scot Beck — CHIEF STRUCTURAL DEVELOPMENT ENGINEER

FHWA

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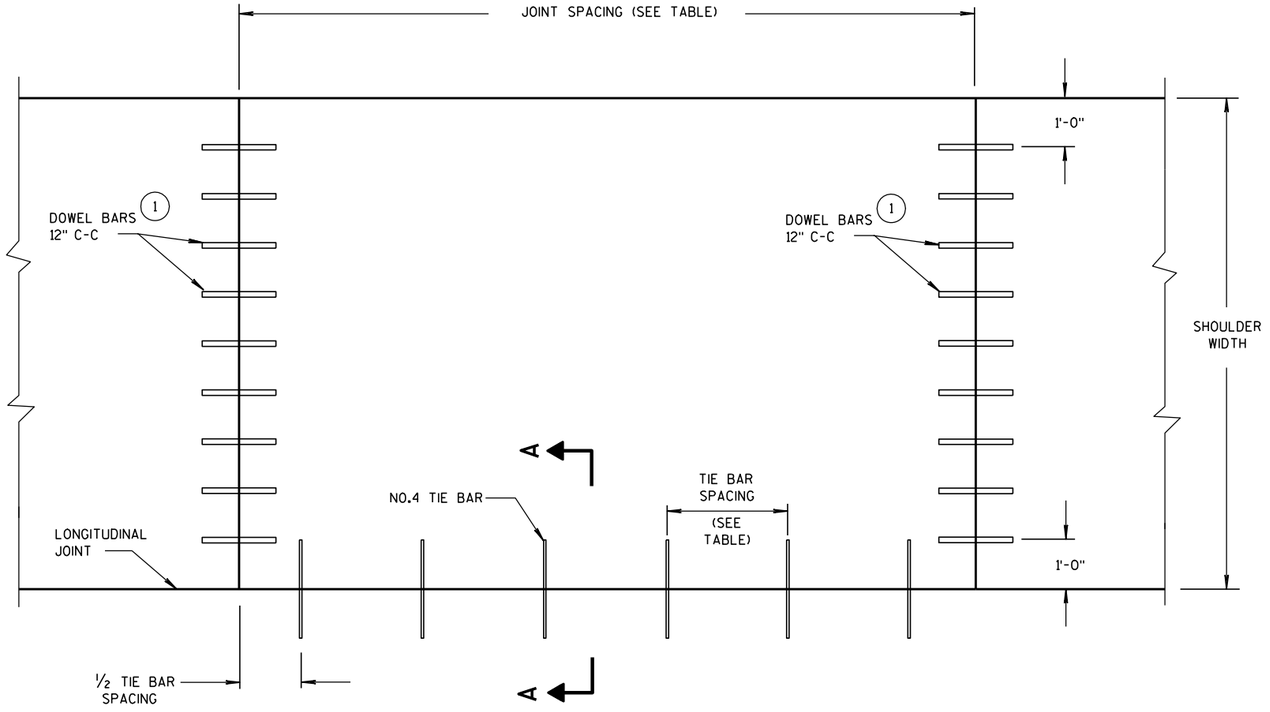


PLAN VIEW

CONCRETE PAVEMENT SHOULDER

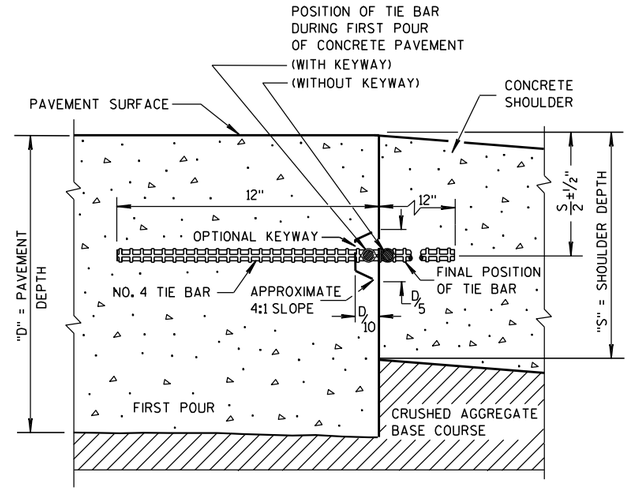
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT

PAVEMENT TYPE OF TRAFFIC LANES	TIE BAR SPACING	SHOULDER JOINT SPACING
NON-REINFORCED	30"	MATCH JOINT SPACING OF ADJACENT TRAFFIC LANE
CONTINUOUSLY REINFORCED	30"	15' FOR 6' TO 10' WIDE SHOULDERS
CONTINUOUSLY REINFORCED	36"	12' FOR 3' WIDE SHOULDERS

(1)

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/15/2011 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & D — INEER
FHWA

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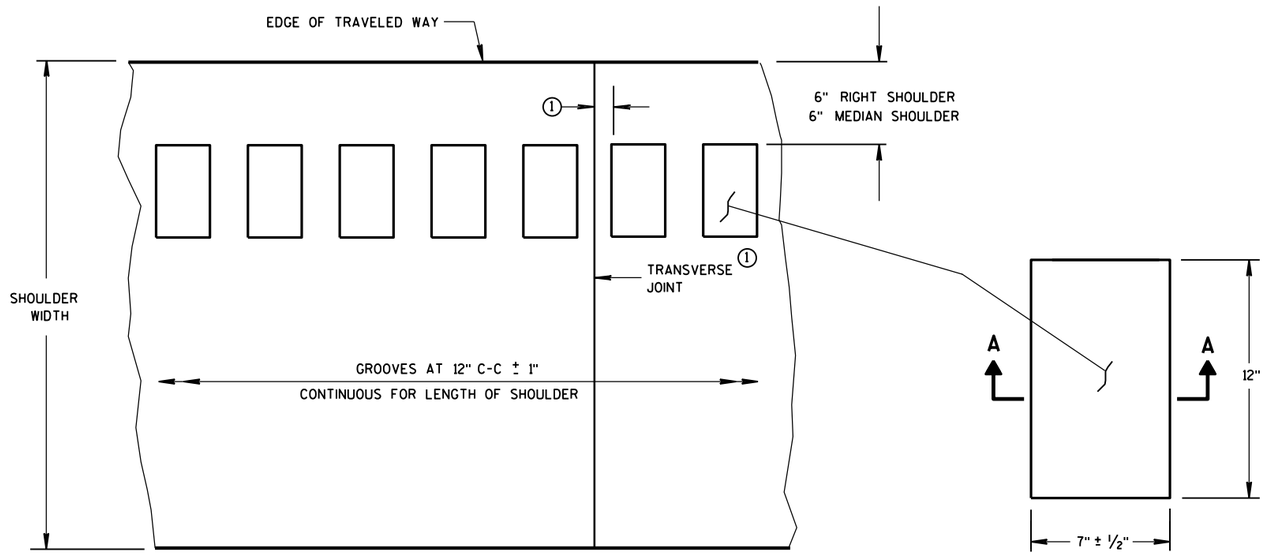
S.D.D. 13 A 3-5



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

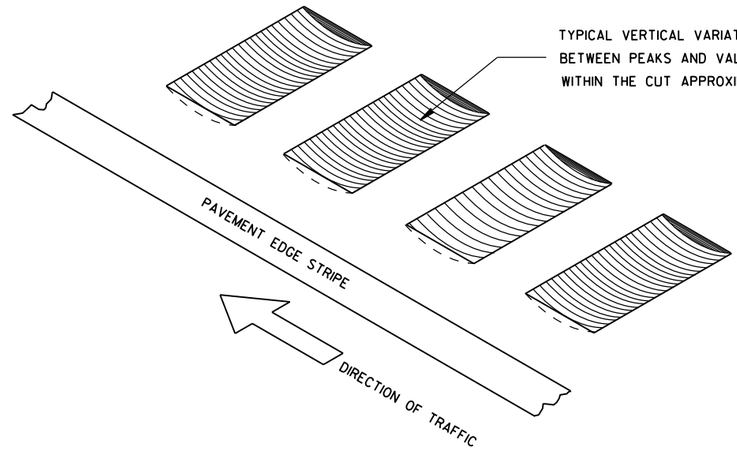
GENERAL NOTES

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

RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



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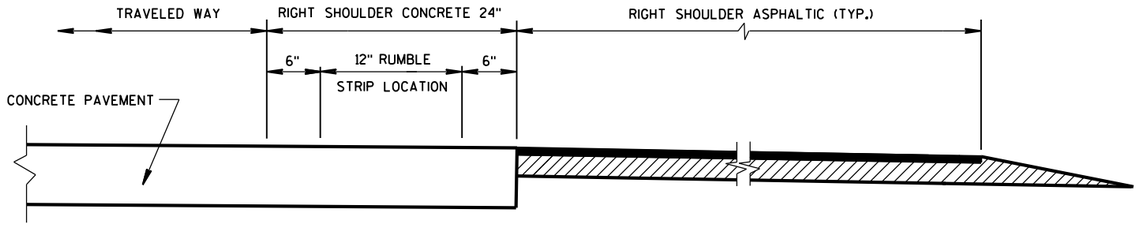
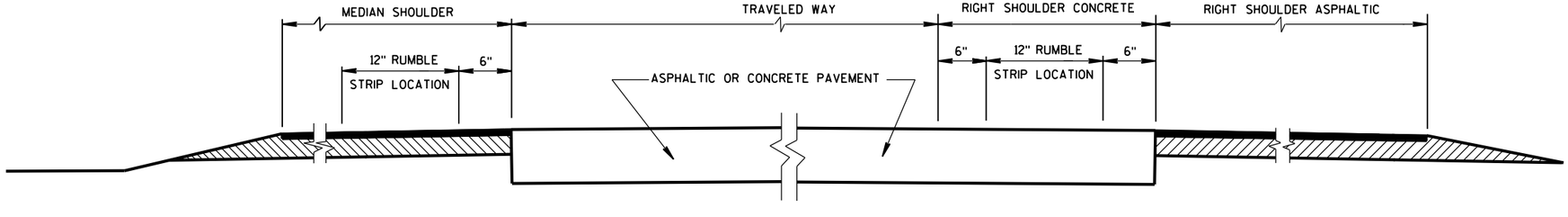


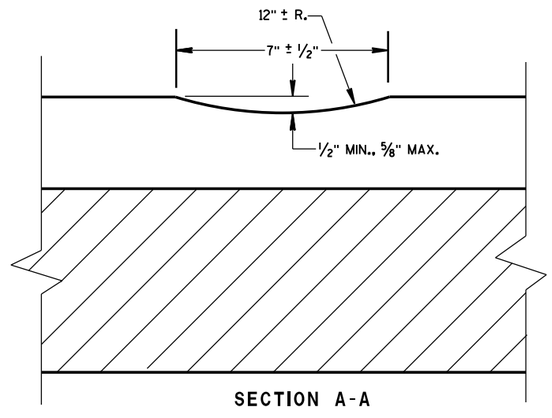
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 520

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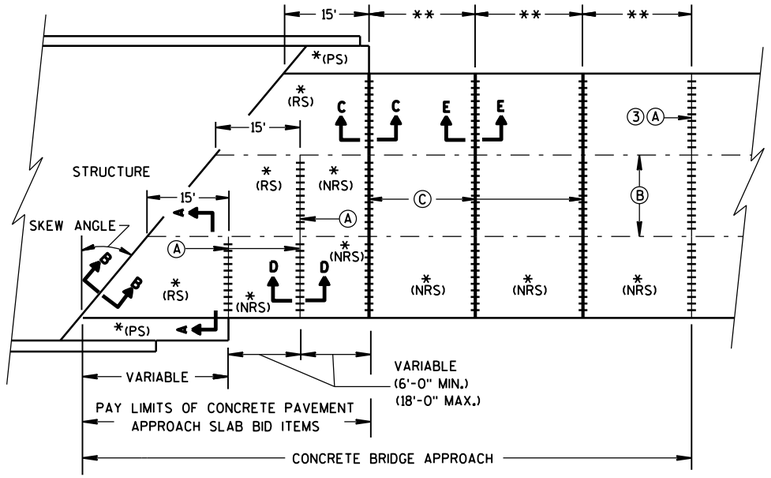
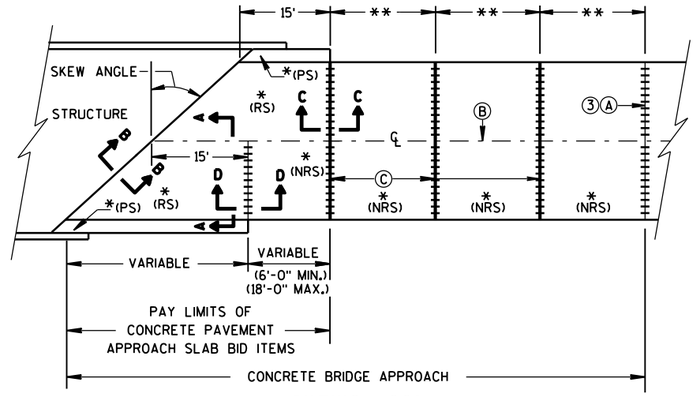
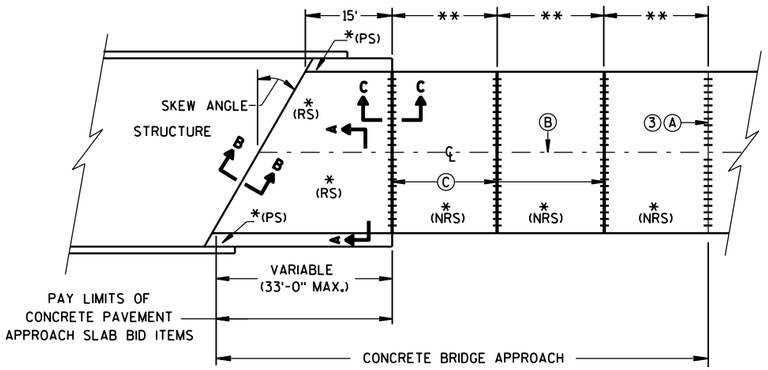


SKEWED APPROACH
(PAVEMENT MORE THAN 2 LANES)



SKEWS >30°
(PAVEMENT WIDTH ≤30')



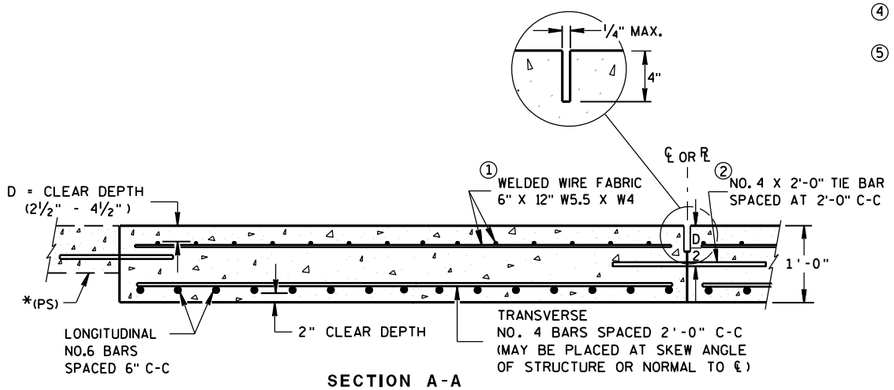
SKEWS ≤30°
(PAVEMENT WIDTH ≤30')

APPROACH SLAB AND ADJACENT PAVEMENT

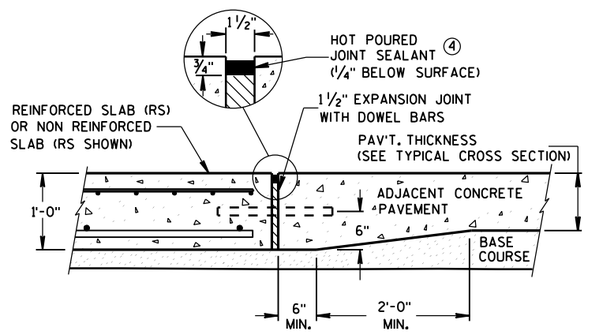
*(RS) = REINFORCED CONCRETE SLAB
*(PS) = PAVED CONCRETE SHOULDER: CONCRETE PAVEMENT, OR CONCRETE SURFACE DRAIN (SEE DETAILS ELSEWHERE IN THE PLAN)
*(NRS) = NON-REINFORCED CONCRETE SLAB

**STANDARD TRANSVERSE JOINT SPACING (SEE SDD 13C4, SDD 13C11, & SDD 13C13)
***STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11, & SDD 13C13)

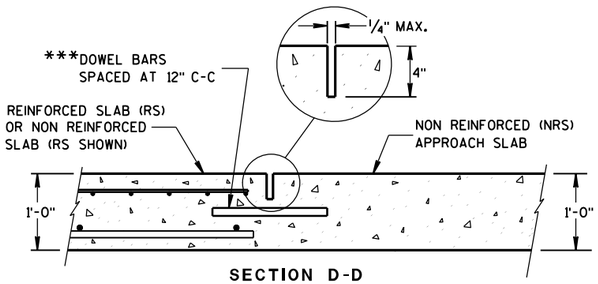
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄
(B) STANDARD LONGITUDINAL JOINT AND TIE BARS.
(C) 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄



SECTION A-A
REINFORCEMENT POSITIONING DETAIL



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



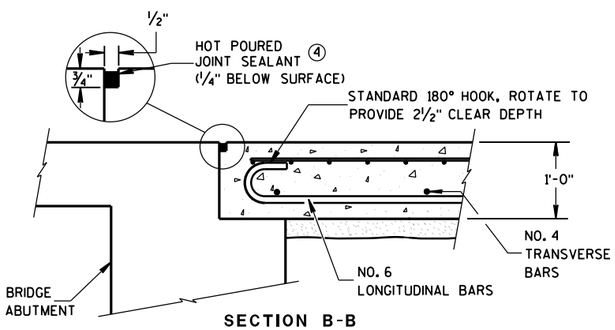
SECTION D-D
CONTRACTION JOINT

GENERAL NOTES

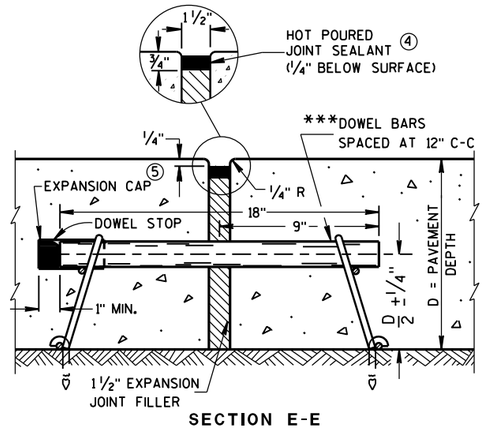
THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

1. THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.
2. THE CONTRACTOR MAY OMIT TIE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.
3. DO NOT DOWEL A CONTRACTION JOINT THAT ABUTS AN HMA PAVEMENT.
4. USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.
5. PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.



SECTION B-B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION E-E
EXPANSION JOINT

CONCRETE BRIDGE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2014 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DE
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FHWA

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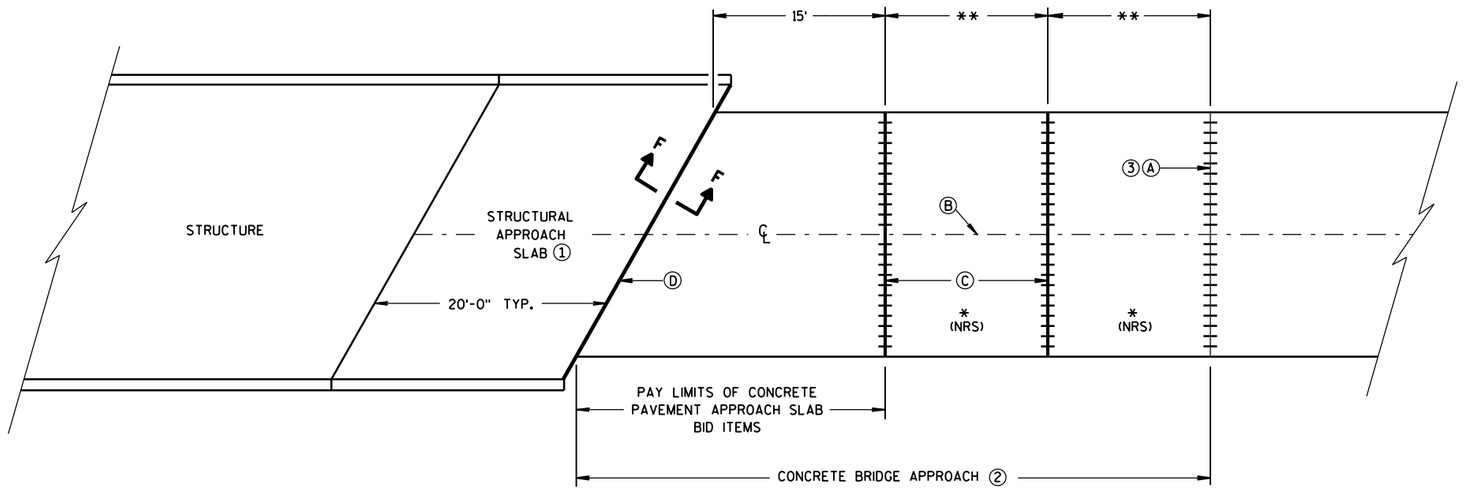
S.D.D. 13 B 2-7a



BRIDGE APPROACHES

GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE BRIDGE APPROACH.

① CONFORM TO APPLICABLE BRIDGE MANUAL STANDARD DRAWINGS FOR *STRUCTURAL APPROACH SLABS* (SEE CHAPTER 12 - ABUTMENTS).

② CONFORM TO SHEET (a) OF THIS SET FOR *CONCRETE BRIDGE APPROACH* DETAILS, WITH ONE EXCEPTION — WHEN CONSTRUCTING A *CONCRETE BRIDGE APPROACH* NEXT TO A *STRUCTURAL APPROACH SLAB*, AS SHOWN IN THE DETAIL DRAWING, THE *CONCRETE BRIDGE APPROACH* WILL ONLY HAVE TWO EXPANSION JOINTS; THE THIRD EXPANSION JOINT IS AT THE END OF THE *STRUCTURAL APPROACH SLAB*.

③ DO NOT DOWEL A CONTRACTION JOINT THAT ABUTS AN HMA PAVEMENT.

*(NRS) = NON-REINFORCED CONCRETE SLAB

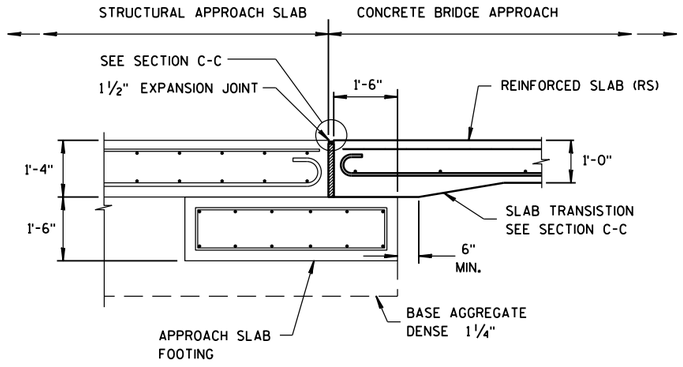
**STANDARD TRANSVERSE JOINT SPACING (SEE SDD 13C4, SDD 13C11, & SDD 13C13)

Ⓐ STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄

Ⓑ STANDARD LONGITUDINAL JOINT AND TIE BARS.

Ⓒ 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄

Ⓓ 1½" EXPANSION JOINT (NO DOWELS)



SECTION F-F

FOOTING DETAIL

STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE BRIDGE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2014 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DE
FHWA
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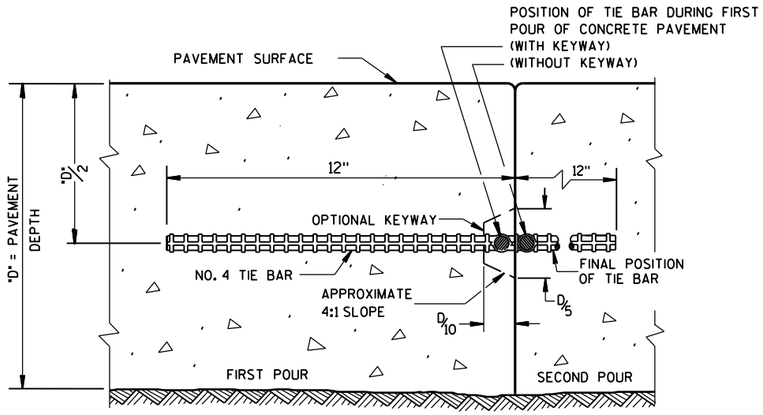
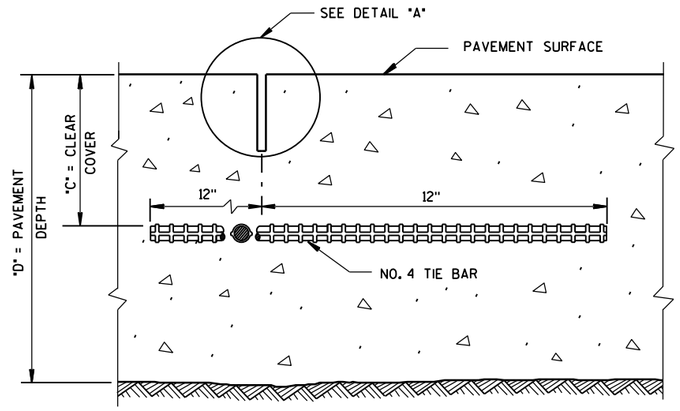
S.D.D. 13 B 2-7b



CONSTRUCTION JOINT



SAWED JOINT

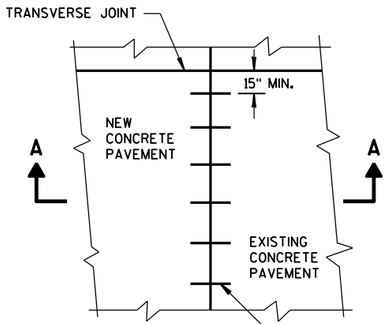
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

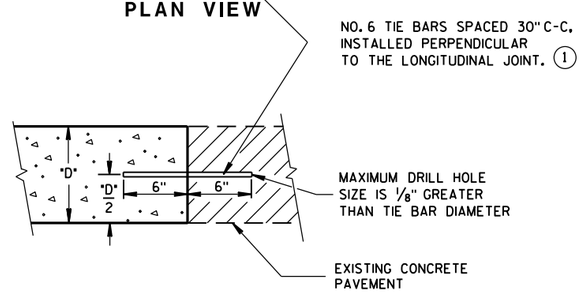
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

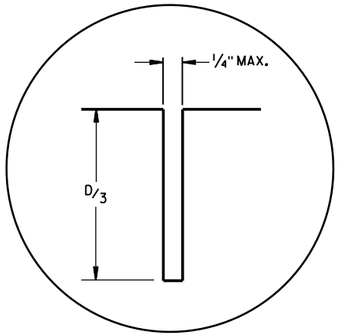


PLAN VIEW



SECTION A-A

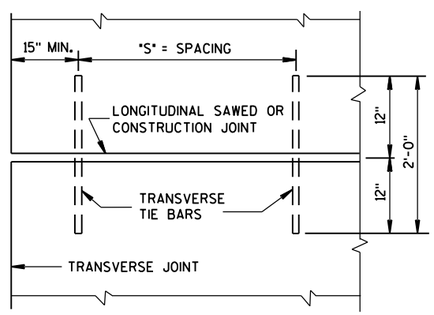
LONGITUDINAL CONSTRUCTION JOINT
TIE BARS ANCHORED
INTO EXISTING PAVEMENT



DETAIL "A"

TIE BAR TABLE

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥ 30'
6, 6 1/2"	3"±1/2"	48"	42"
7, 7 1/2"	3 1/4"±1"	45"	36"
8, 8 1/2"	3 3/4"±1"	39"	30"
9, 9 1/2"	4 1/4"±1"	33"	27"
10, 10 1/2"	4 3/4"±1"	30"	24"
11, 11 1/2"	5 1/4"±1"	27"	21"
12"	5 3/4"±1"	24"	21"



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-3-2013
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DE

FHWA

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S.D.D. 13 C 1-16

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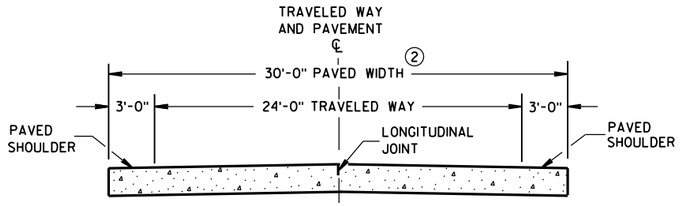
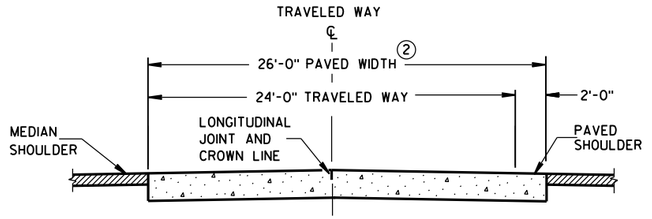
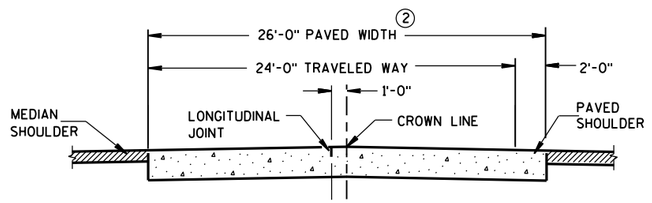


SECTION A-A ①

TWO-LANE TWO-WAY HIGHWAY



SECTION B-B



ALTERNATIVE SECTION B-B ①

DIVIDED HIGHWAY

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

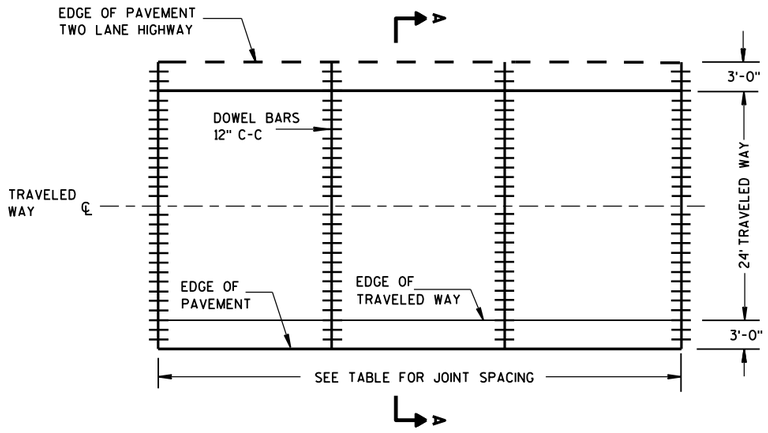
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

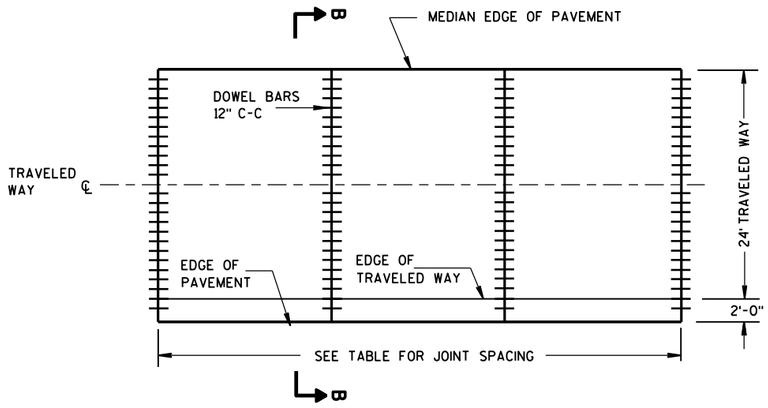
② MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



CONTRACTION JOINT LAYOUT
FOR TWO-LANE TWO-WAY HIGHWAY



CONTRACTION JOINT LAYOUT
FOR DIVIDED HIGHWAY

RURAL DOWELED
CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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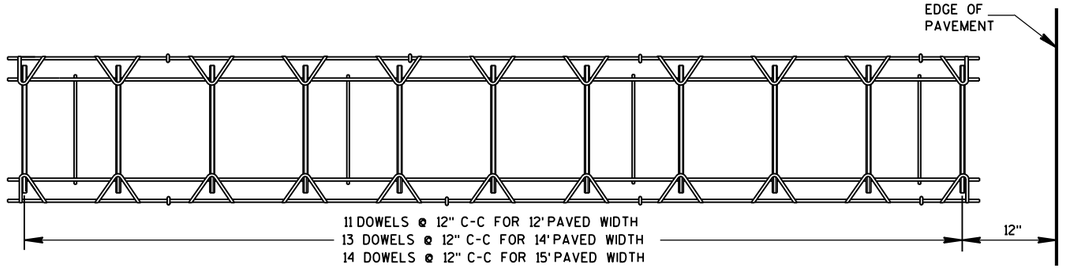
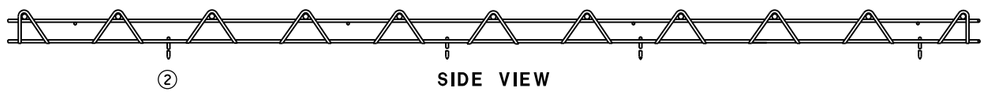
S.D.D. 13 C 11-11a



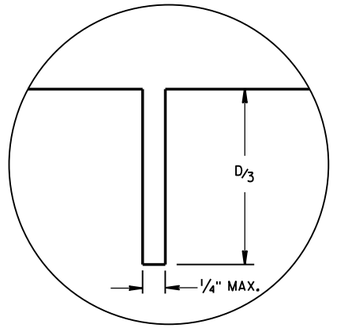
PLAN VIEW



SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY ①



JOINT DETAIL

GENERAL NOTES

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

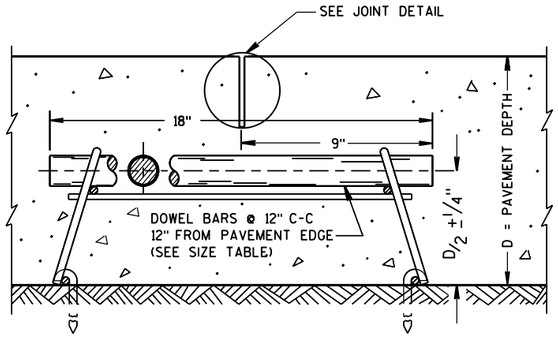
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

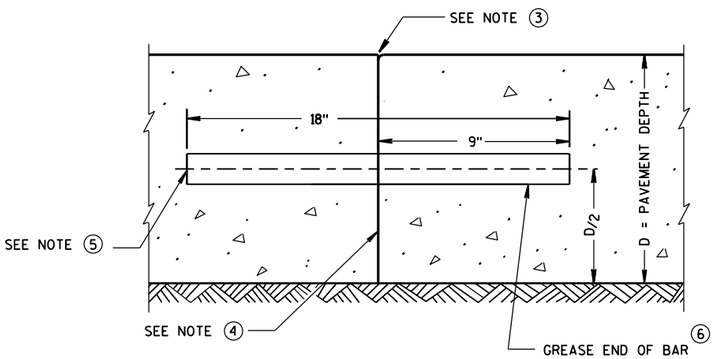
⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

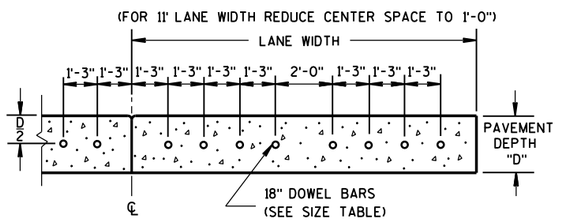
⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



DOWELED CONTRACTION JOINT



TRANSVERSE CONSTRUCTION JOINT



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/3/2013
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DE 525 NEER

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S.D.D. 13 C 11-11b

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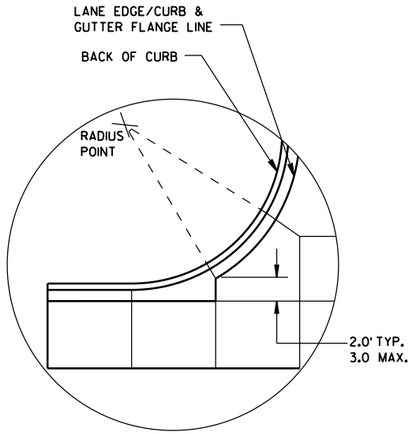
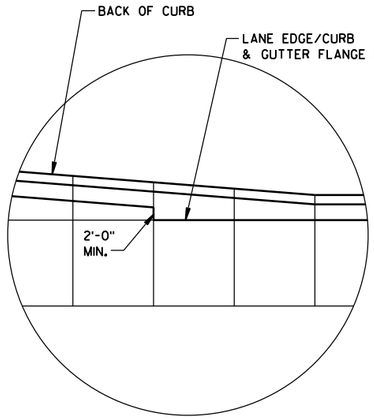
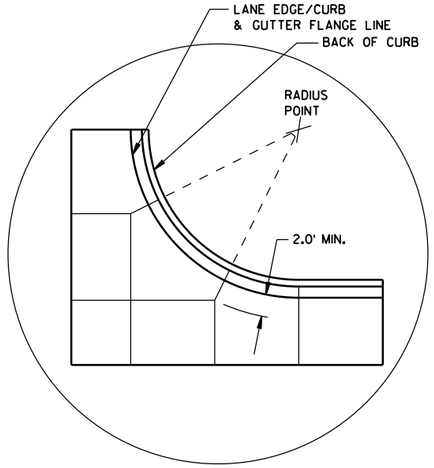


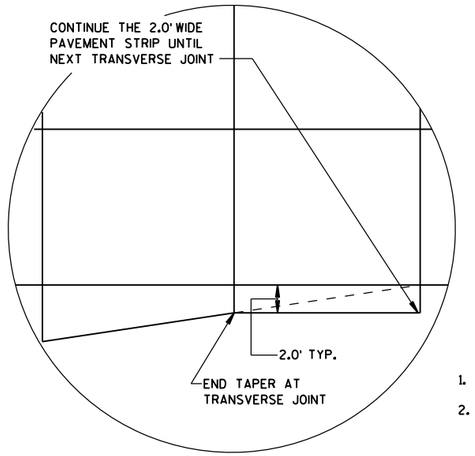
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

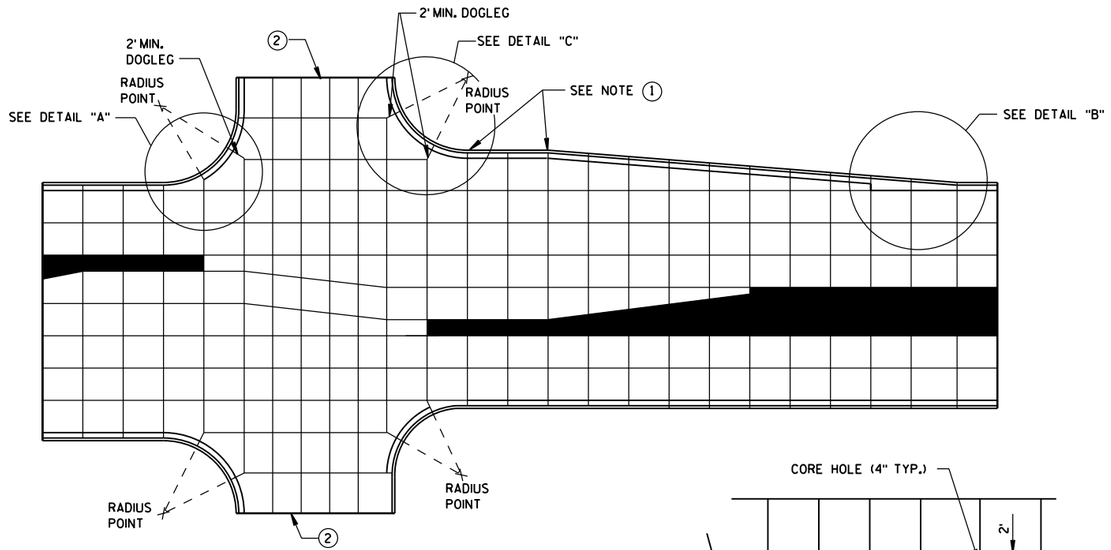
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.

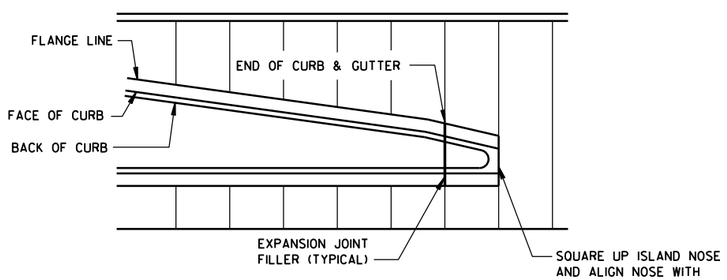


STANDARD INTERSECTION

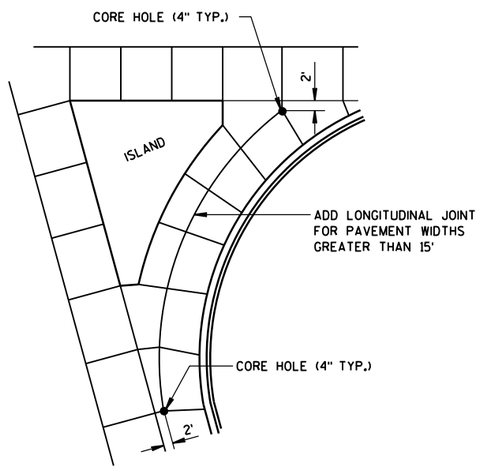
PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'

SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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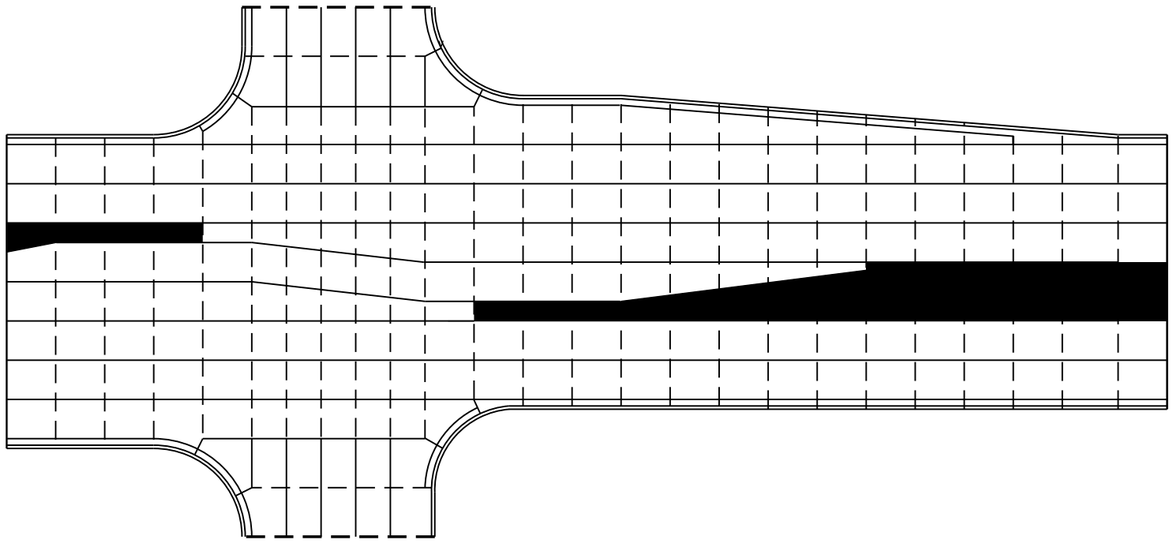
S.D.D. 13 C 18-2a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

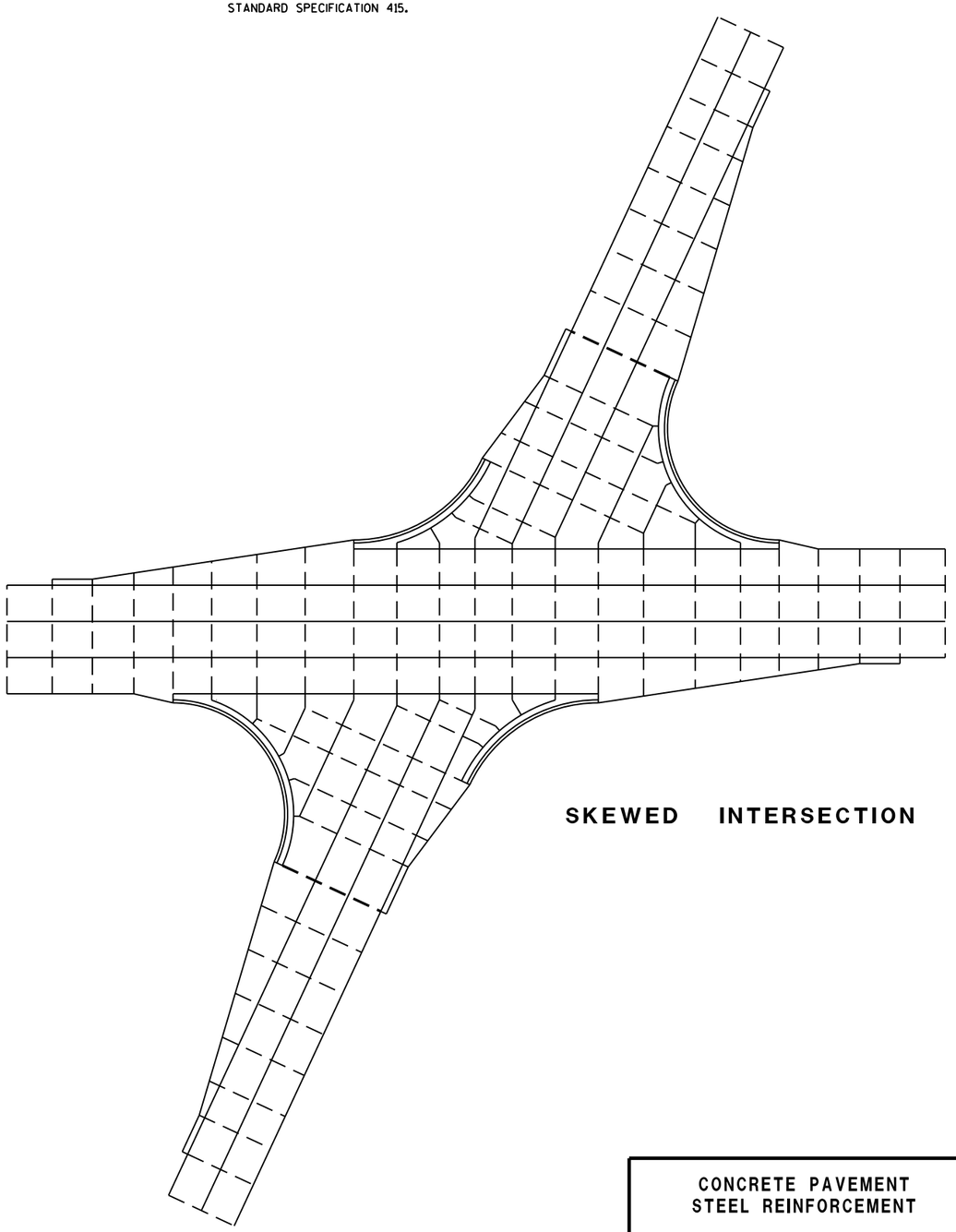
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 C 18-2b

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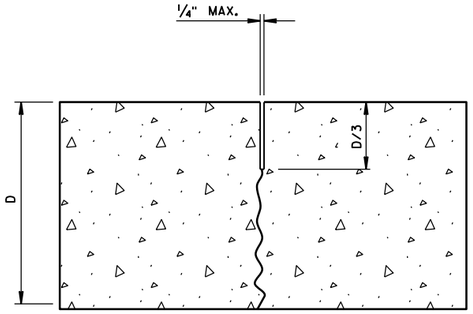
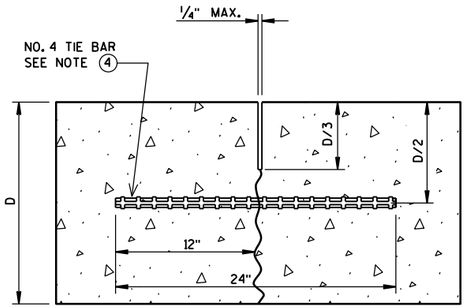
S.D.D. 13 C 18-2b



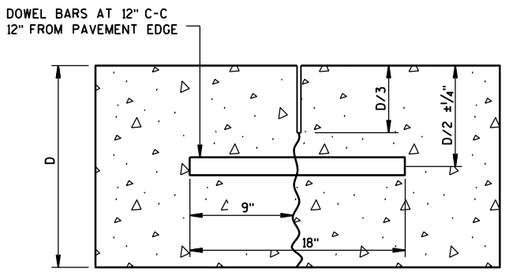
UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

GENERAL NOTES

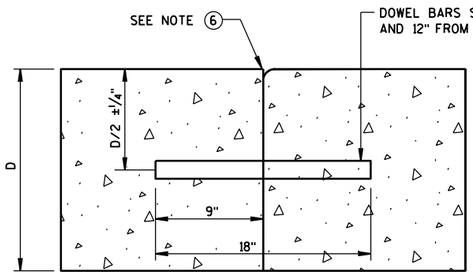
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. SPACE TIE BARS AT LONGITUDINAL CONSTRUCTION OR CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C1.
5. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
6. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.



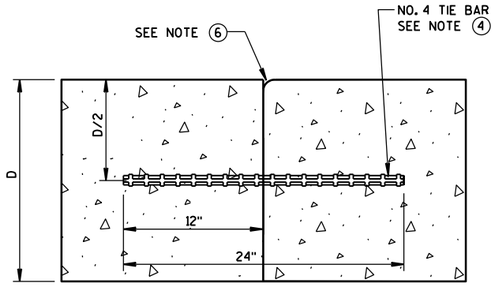
DOWELED-TRANSVERSE

CONTRACTION JOINTS

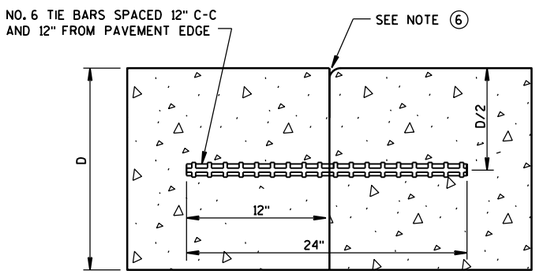
SEE NOTE (2)



DOWELED TRANSVERSE

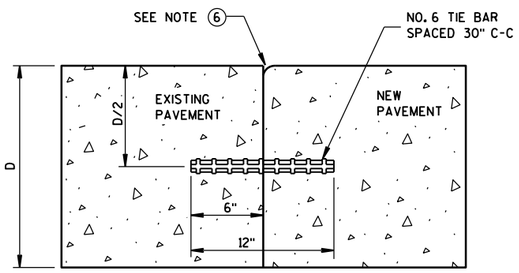


TIED LONGITUDINAL



TIED TRANSVERSE

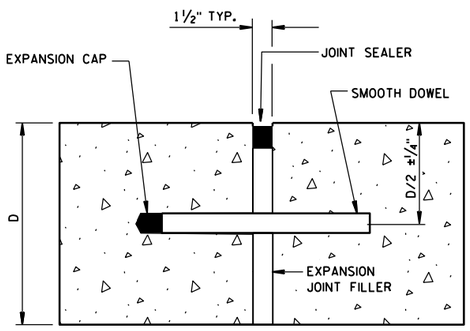
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

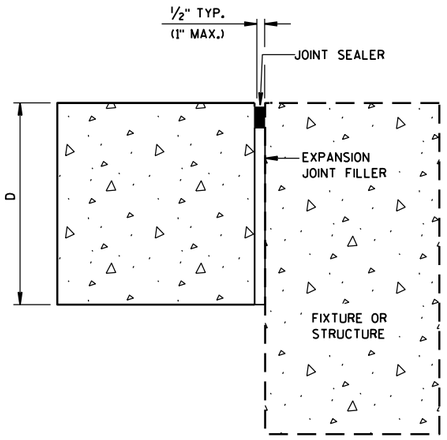
CONSTRUCTION JOINTS

SEE NOTE (5)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

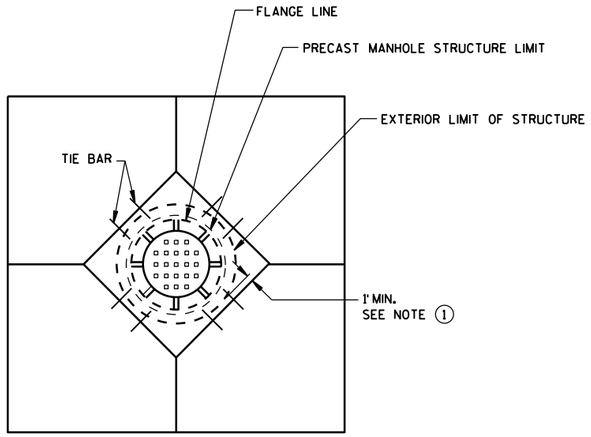
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

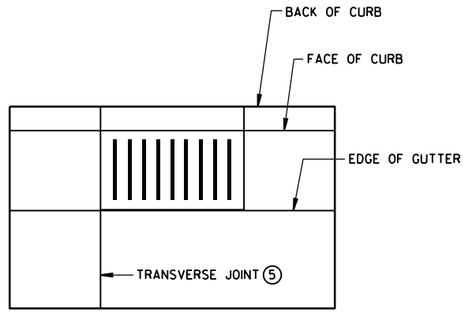
S.D.D. 13 C 18-2c

6

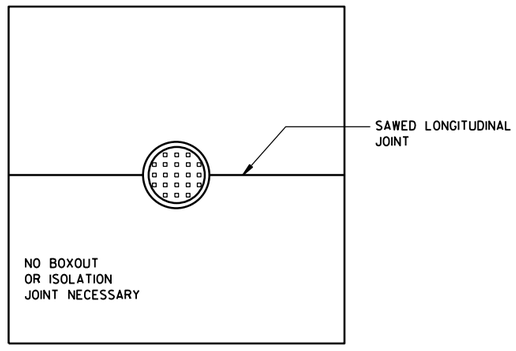
S.D.D. 13 C 18-2c



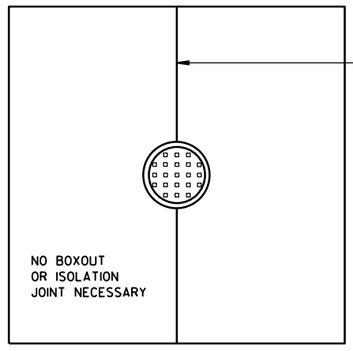
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



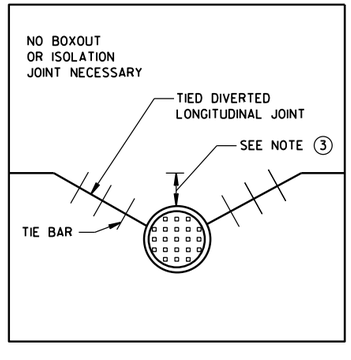
INLET WITH TRANSVERSE JOINT



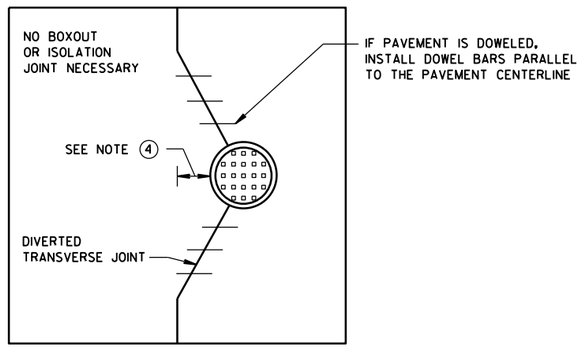
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-3-2013
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DE

529

NEER

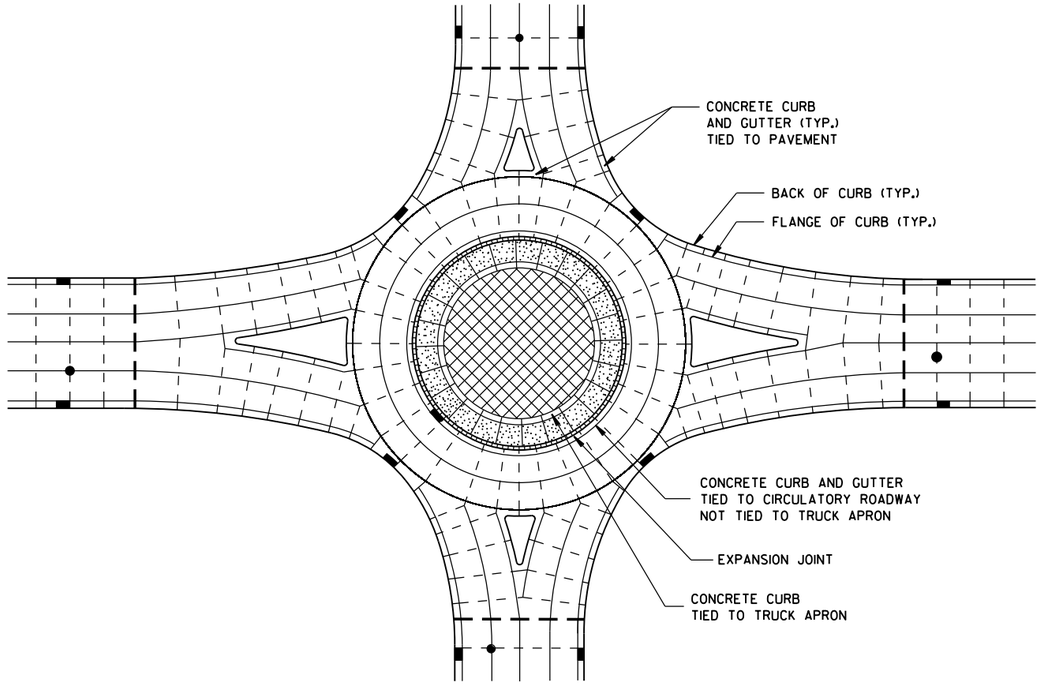
FHWA

6

S.D.D. 13 C 18-2d

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES



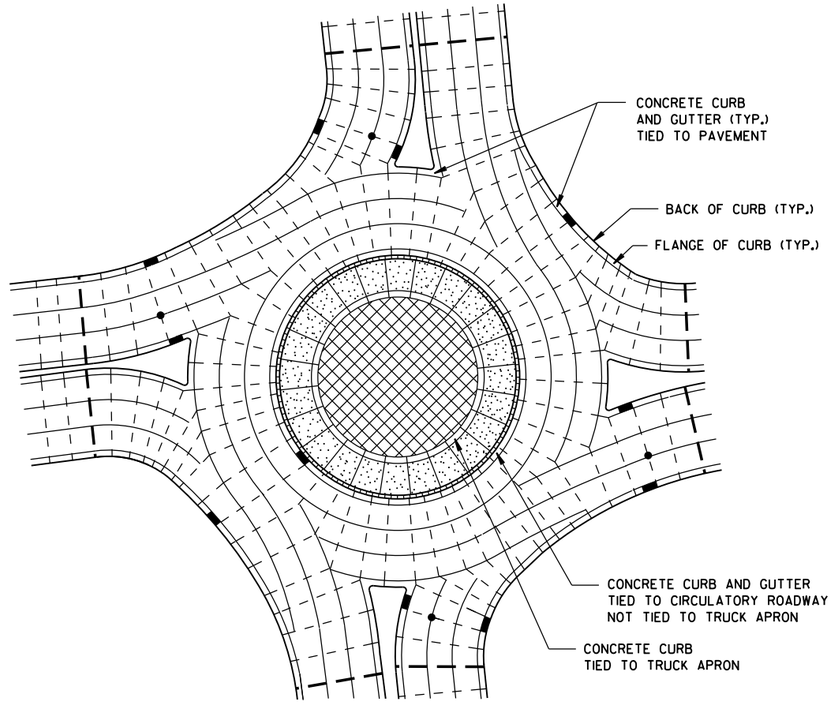
ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 SHEET "a".

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

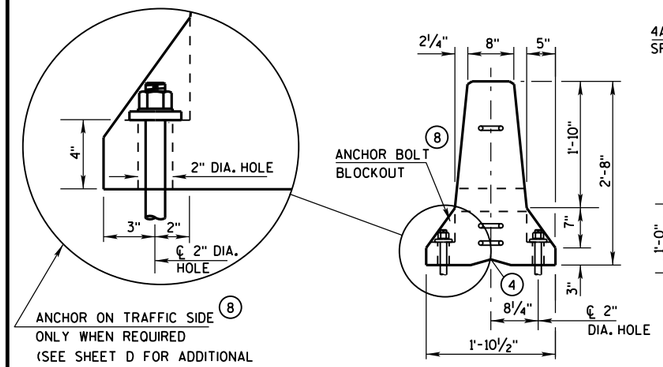


PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

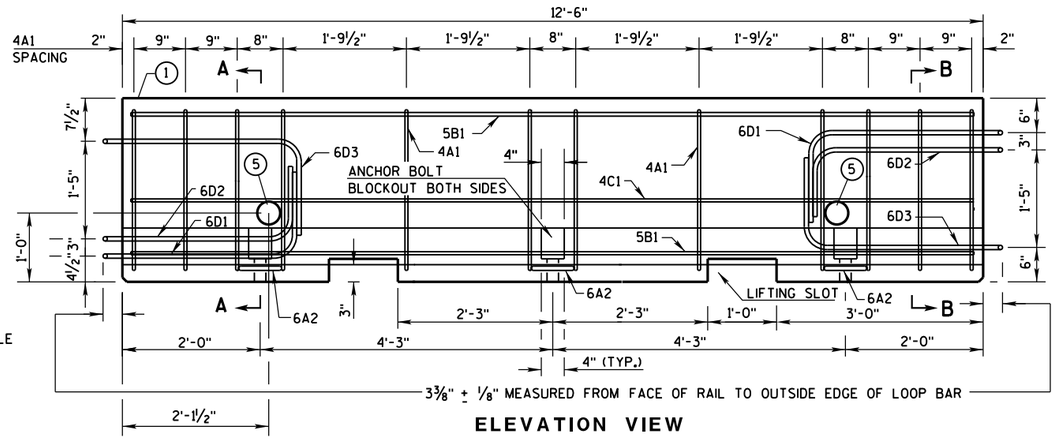
CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 5-3-2013 DATE — /S/ Deb Bischoff, PAVEMENT POLICY & DE ENGINEER FHWA

6

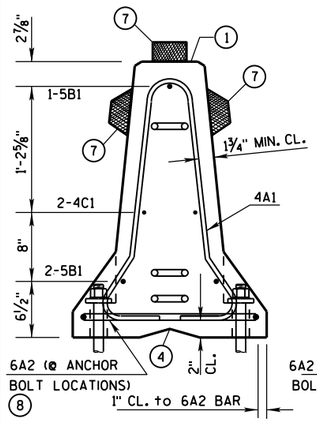
S.D.D. 13 C 18-2e



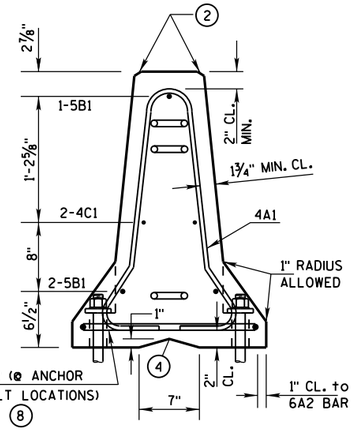
END VIEW



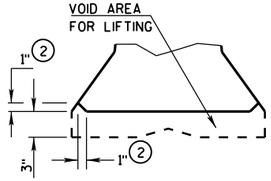
ELEVATION VIEW



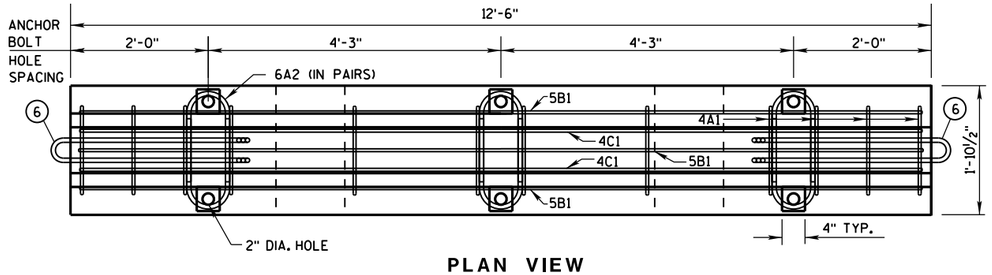
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

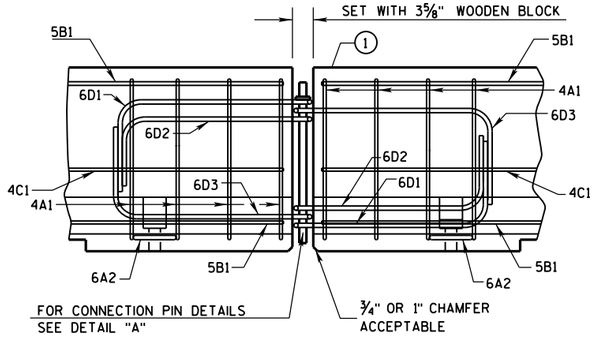


DETAIL "B"
LIFTING SLOT DETAIL

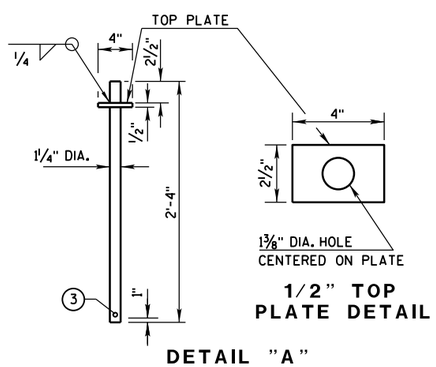


PLAN VIEW

DETAILS OF BARRIER SECTION

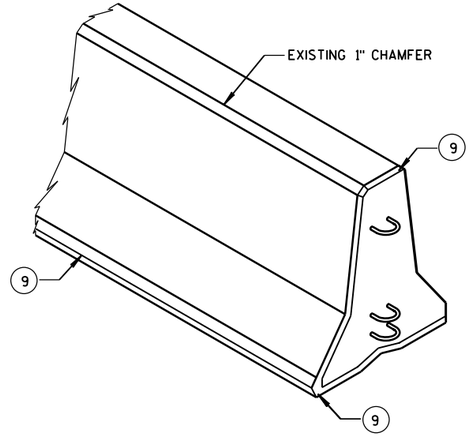


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-14(a) THRU 14B7-14(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR EPOXY ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

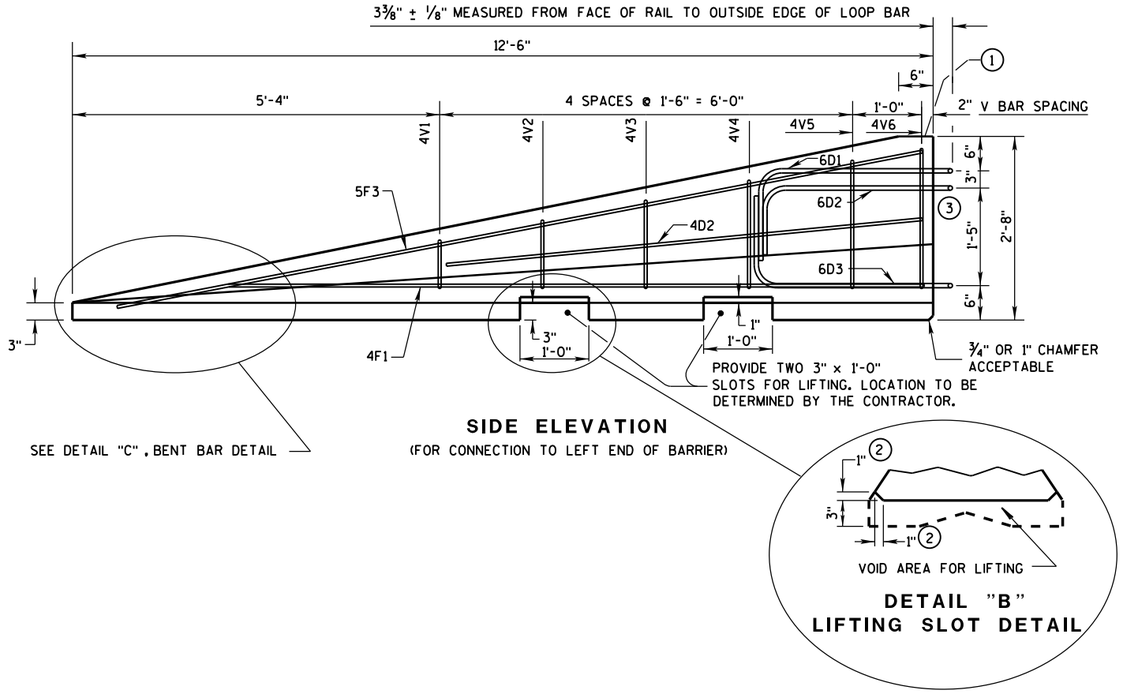
(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

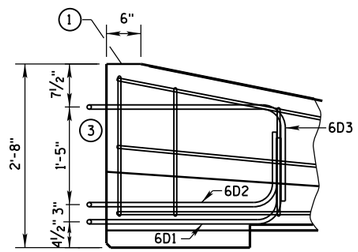
(8) SEE SHEET D FOR ANCHORING CRITERIA.

(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

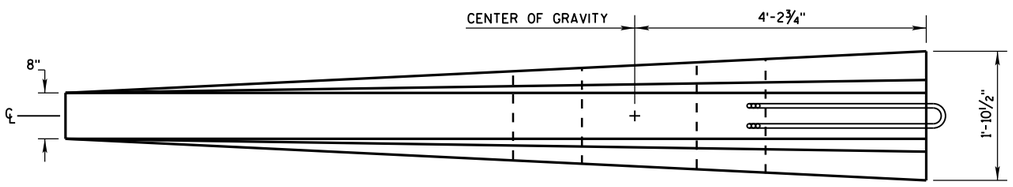
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 531

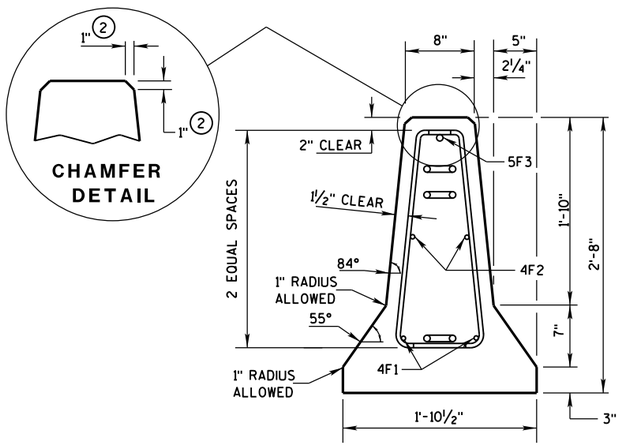


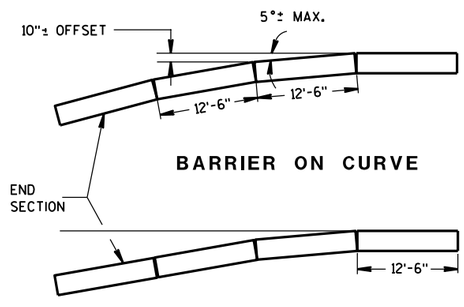


GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.







POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 532

6

S.D.D. 14 B 7-14b

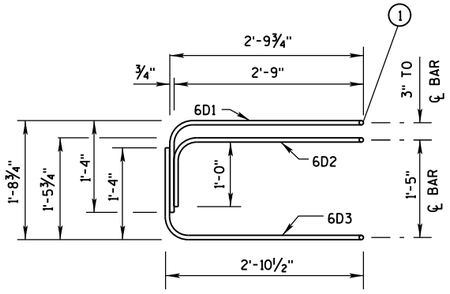
6

S.D.D. 14 B 7-14b

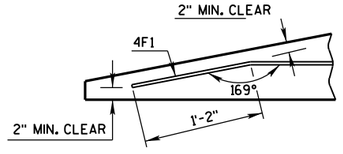
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

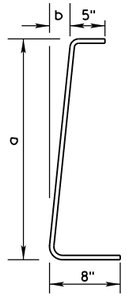
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

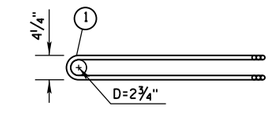
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

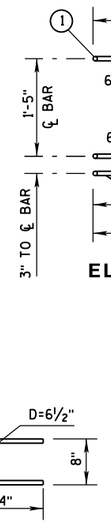
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

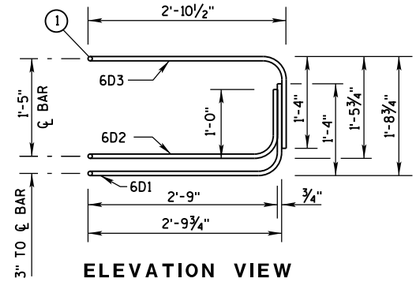
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



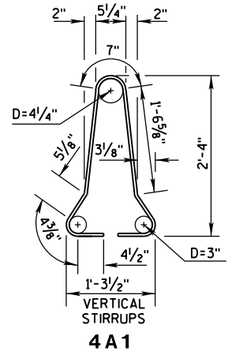
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



ELEVATION VIEW



4A1

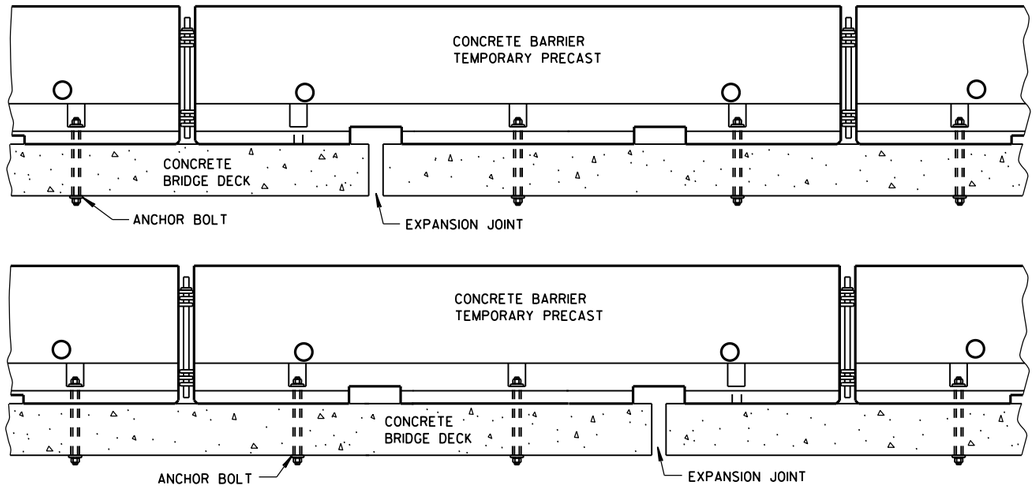
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

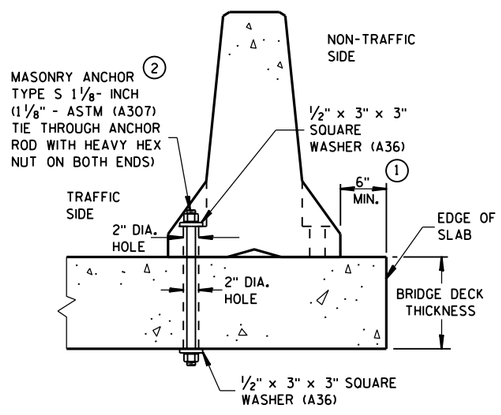
6

S.D.D. 14 B 7-14c



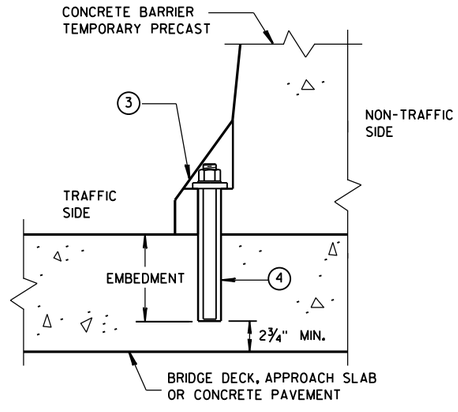
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR ② INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

① CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

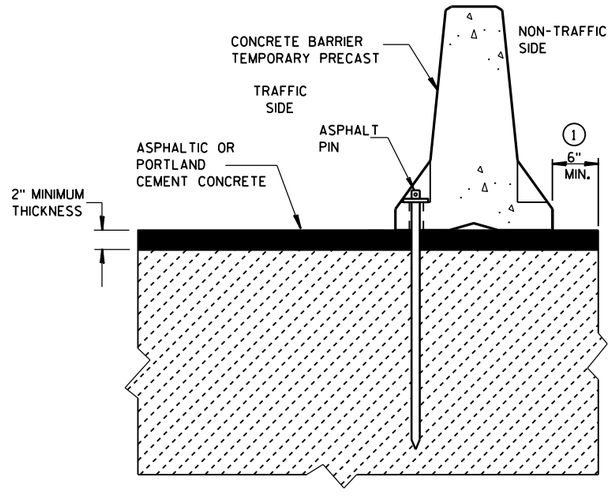
② ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

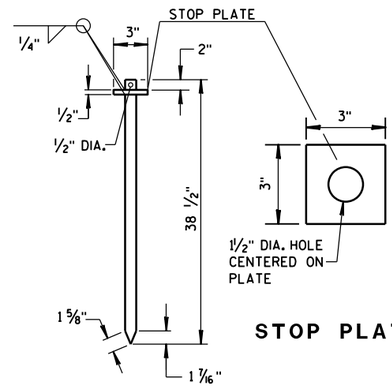
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.

③ 1⅛" DIAMENTER A307 THREADED ROD, ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.

④ ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.



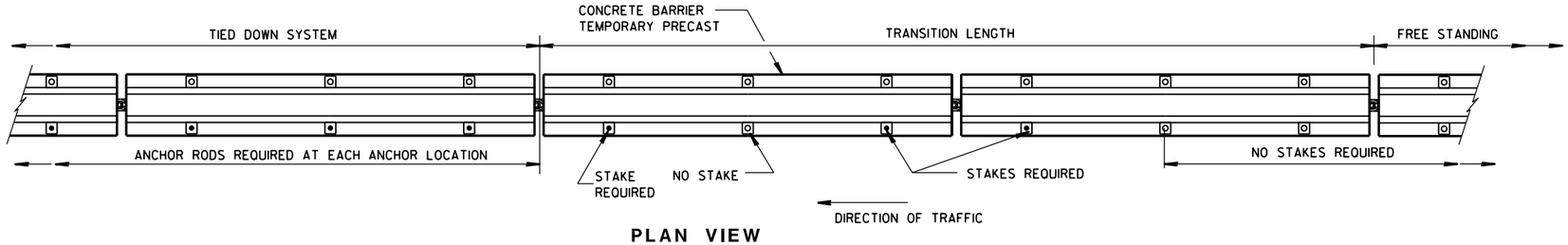


STOP PLATE

ASPHALT PIN
(ASTM A36 STEEL)

STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 534

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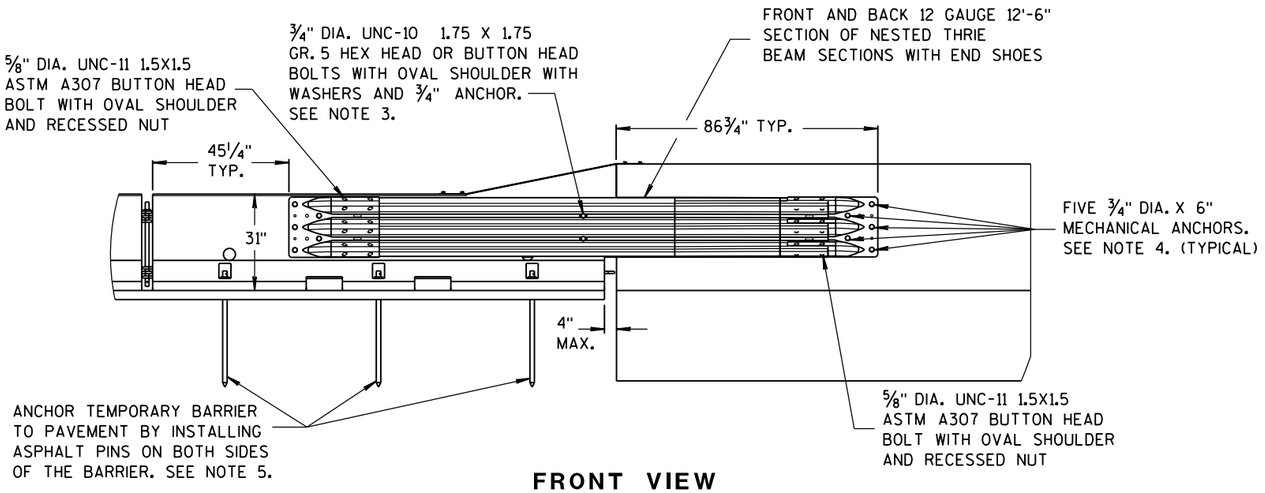
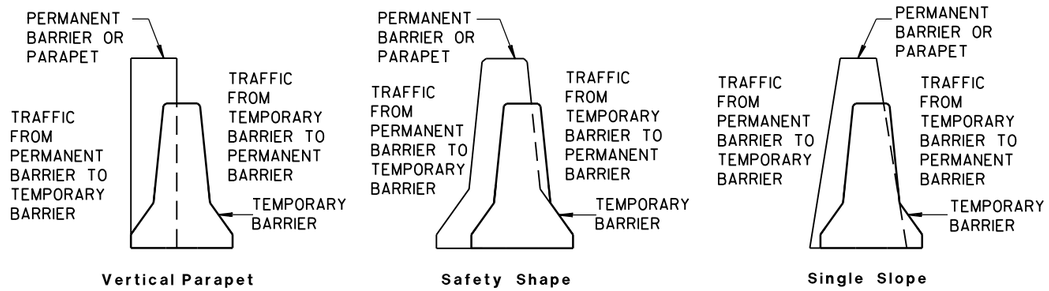


FRONT VIEW

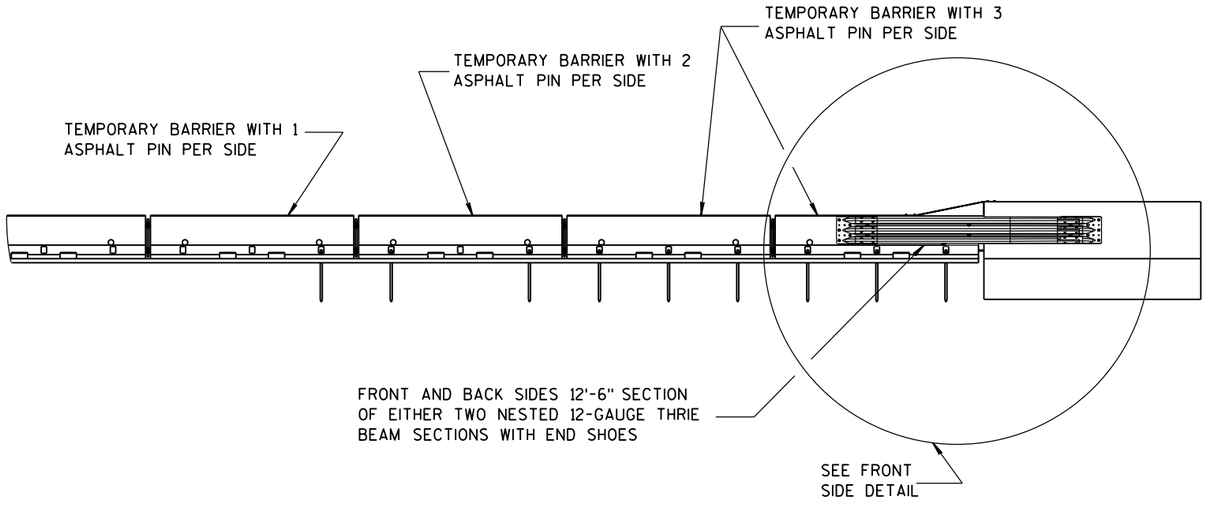


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

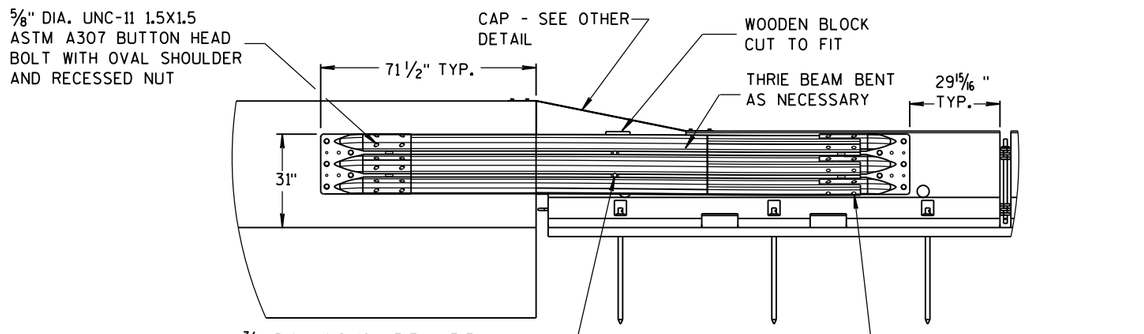
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

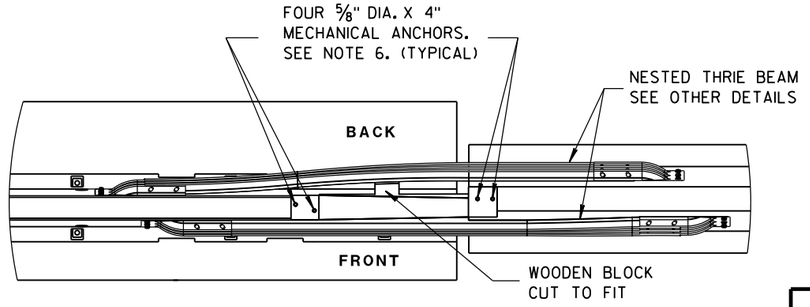
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



FRONT VIEW



BACK VIEW



PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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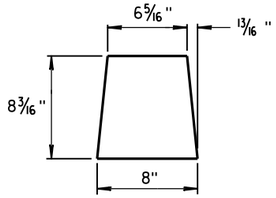
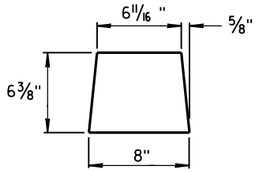
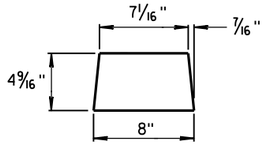


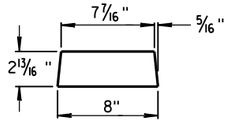
GUSSET 1



GUSSET 2

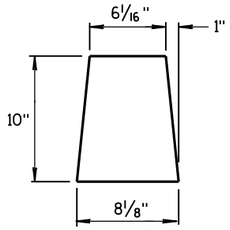


GUSSET 3

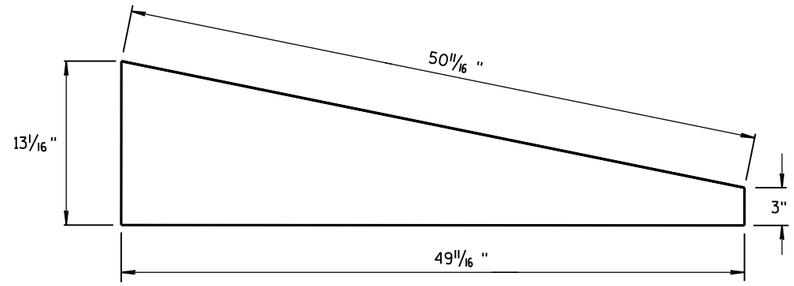


GUSSET 4

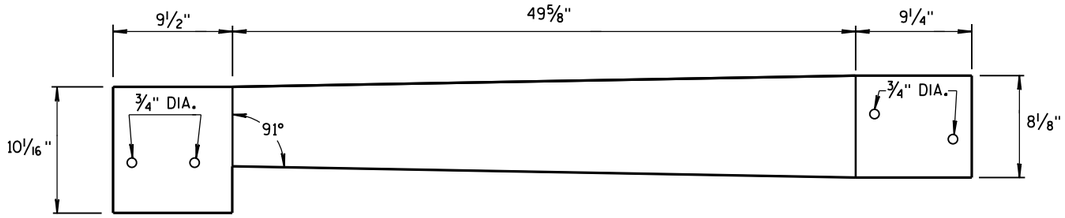
GUSSETS

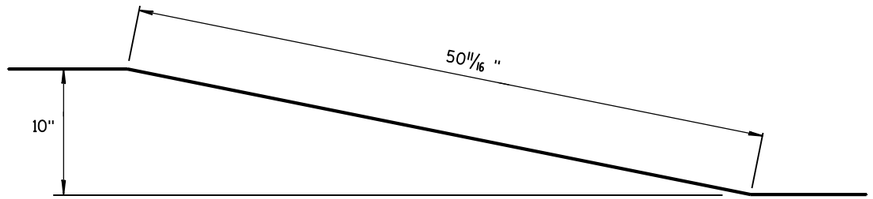


END PLATE



SIDE PLATE

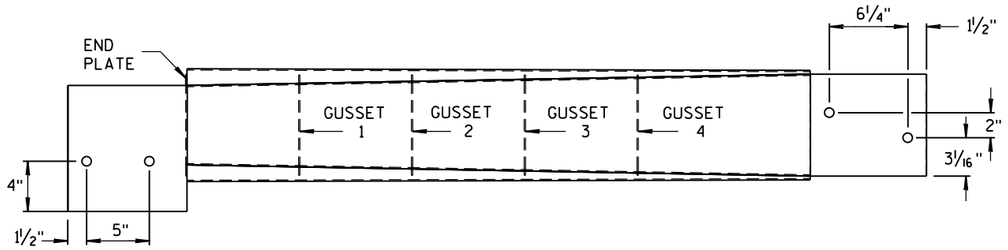


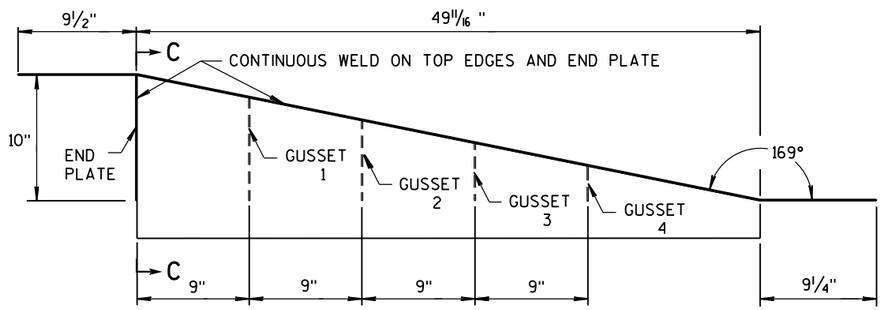


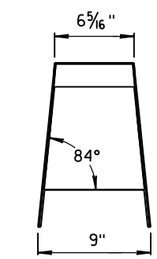
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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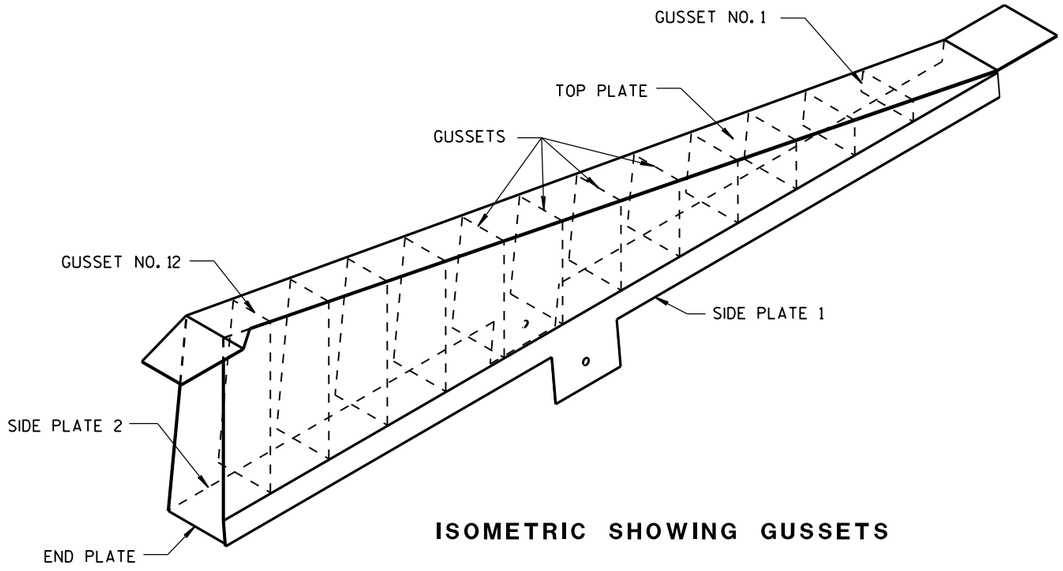
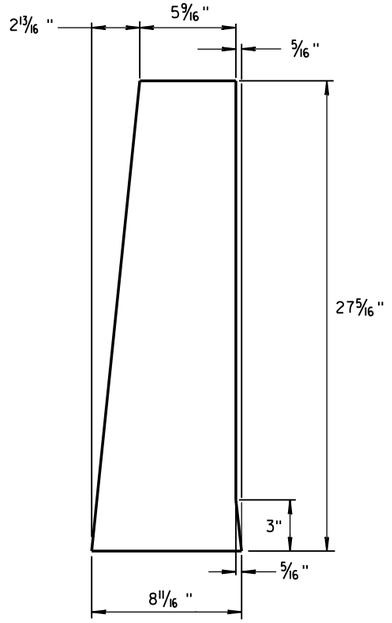
S.D.D. 14 B 7-14f

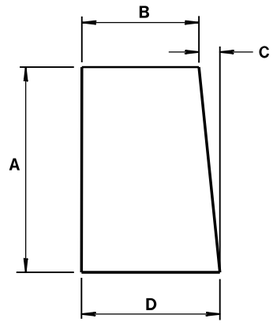


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



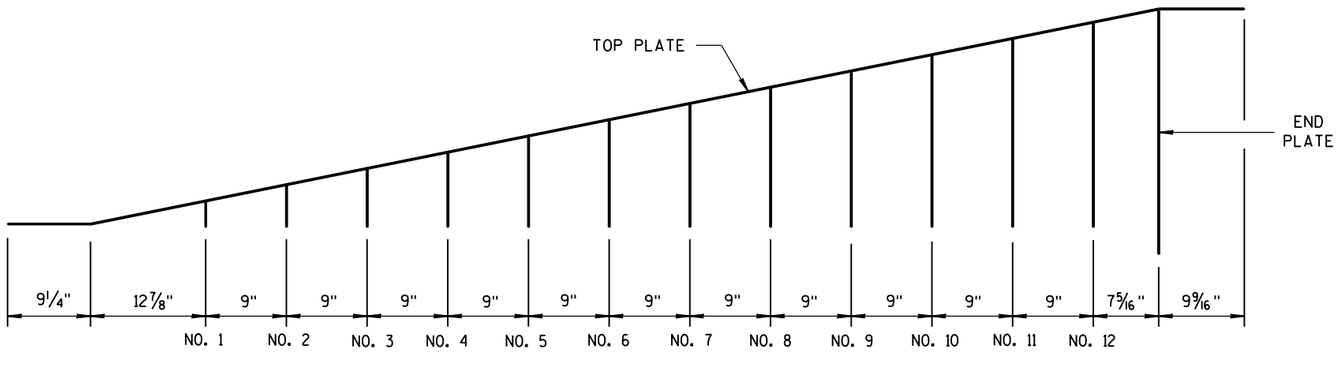
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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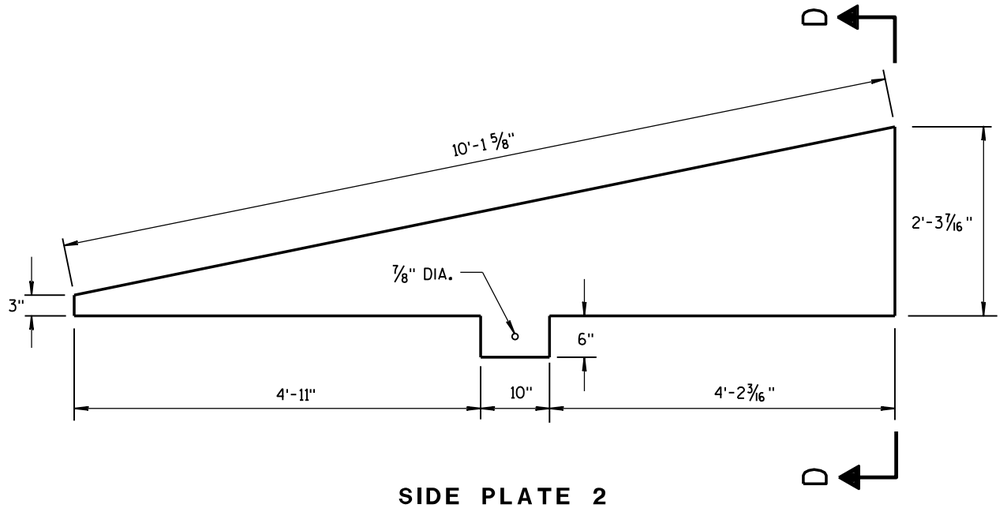
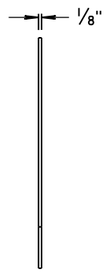
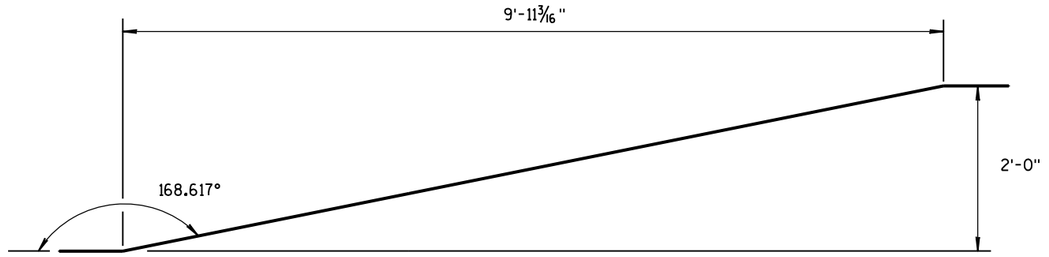
S.D.D. 14 B 7-14g



SIDE PLATE 2

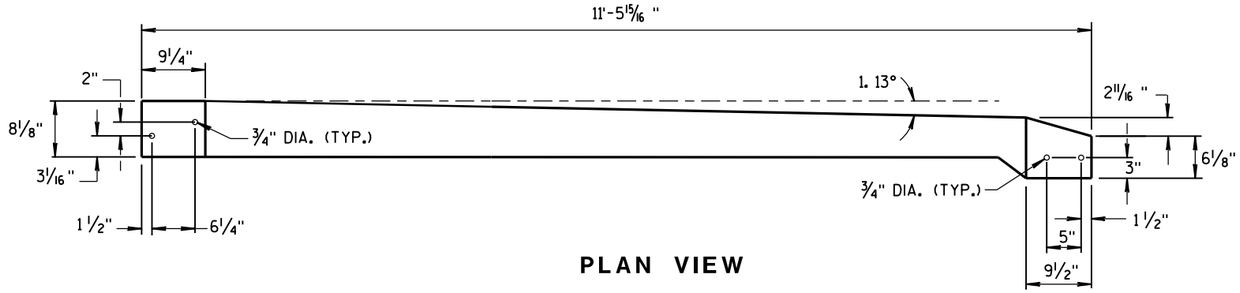


END VIEW



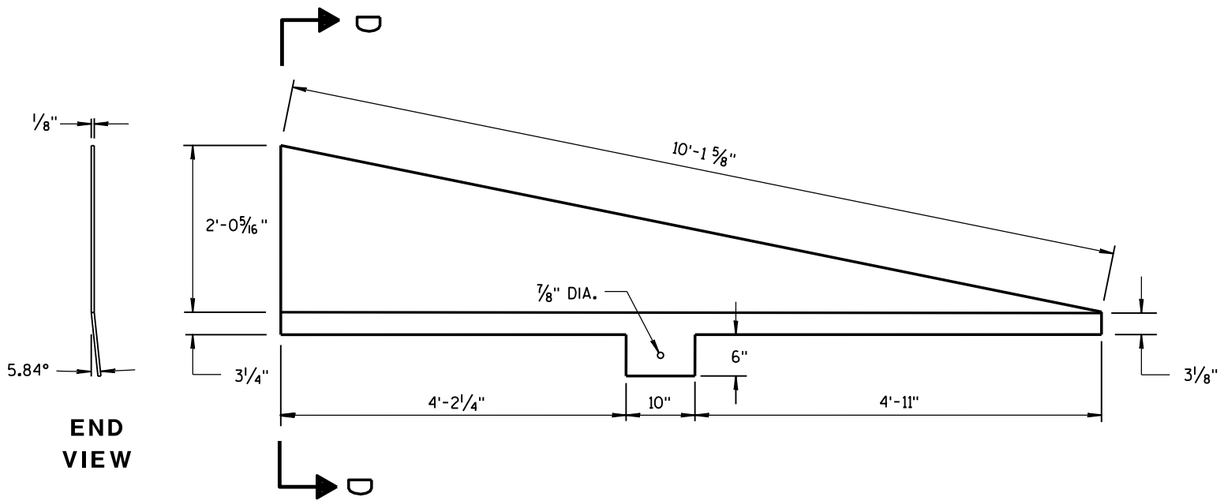
SIDE VIEW

TOP PLATE



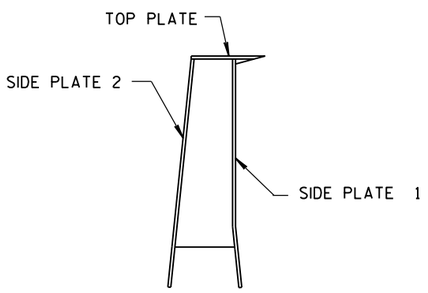
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARD DEVELOPMENT ENGINEER
FHWA

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S.D.D. 14 B 7-14h

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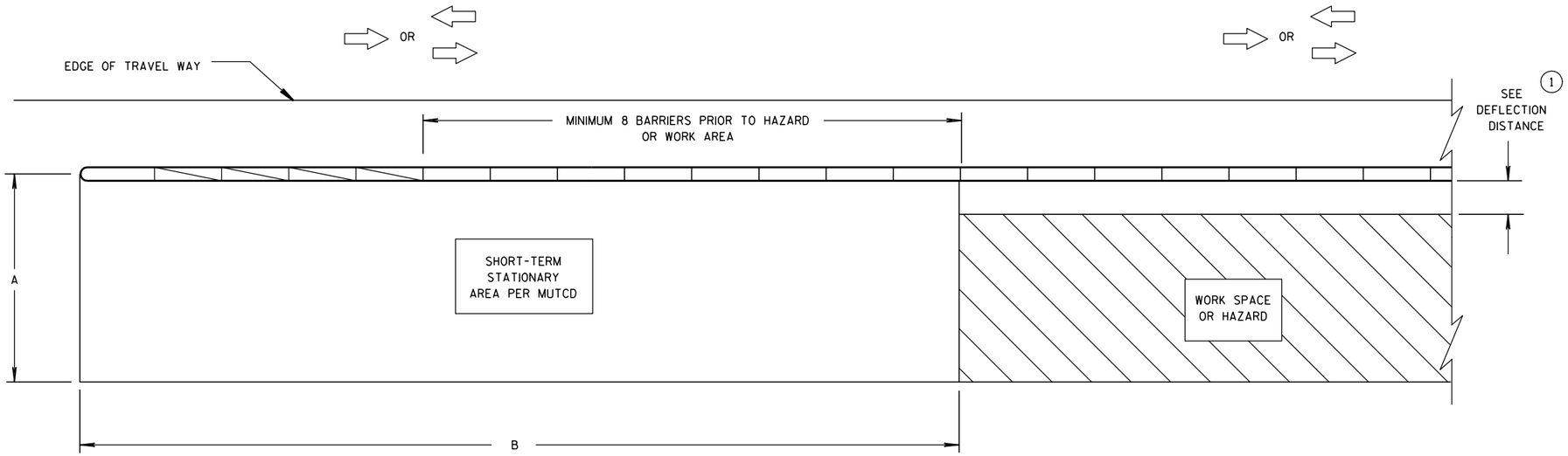
S.D.D. 14 B 7-14h



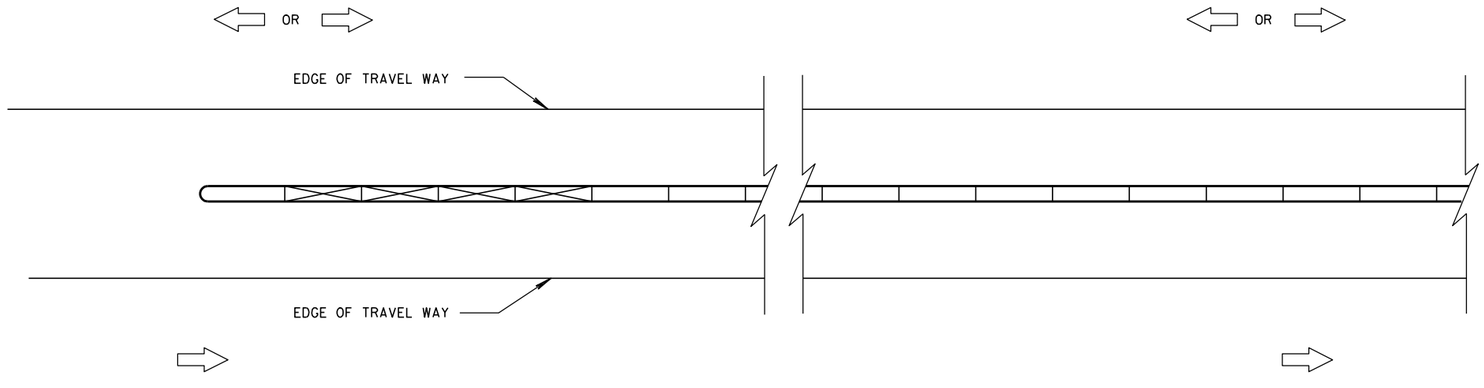
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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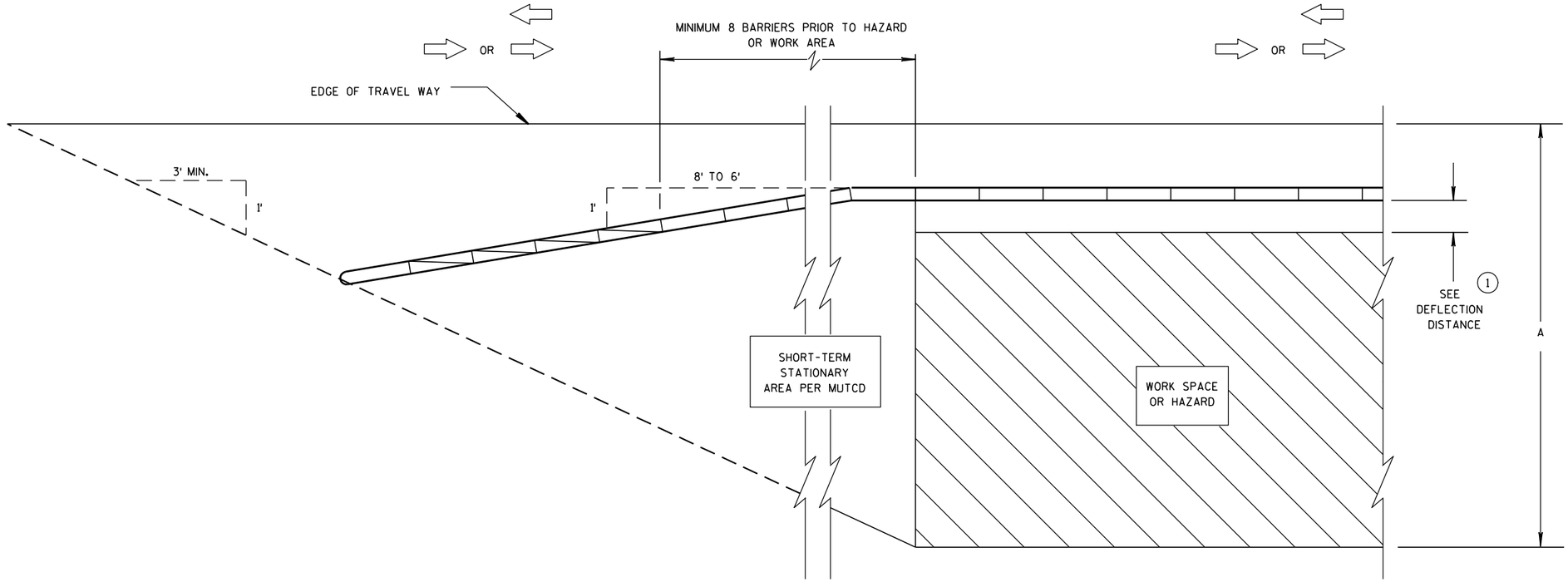
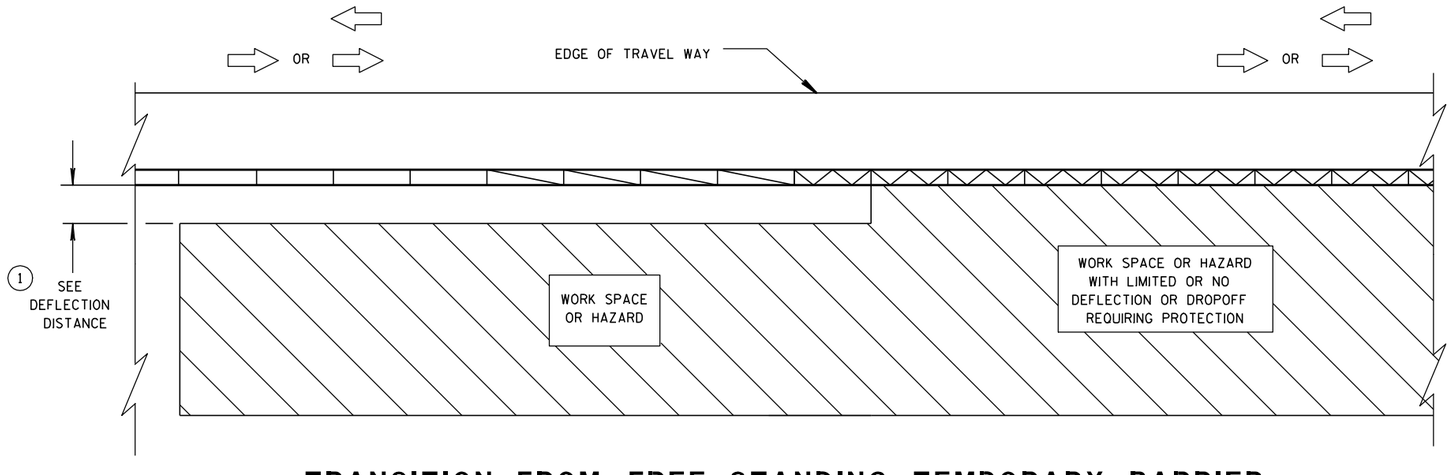


CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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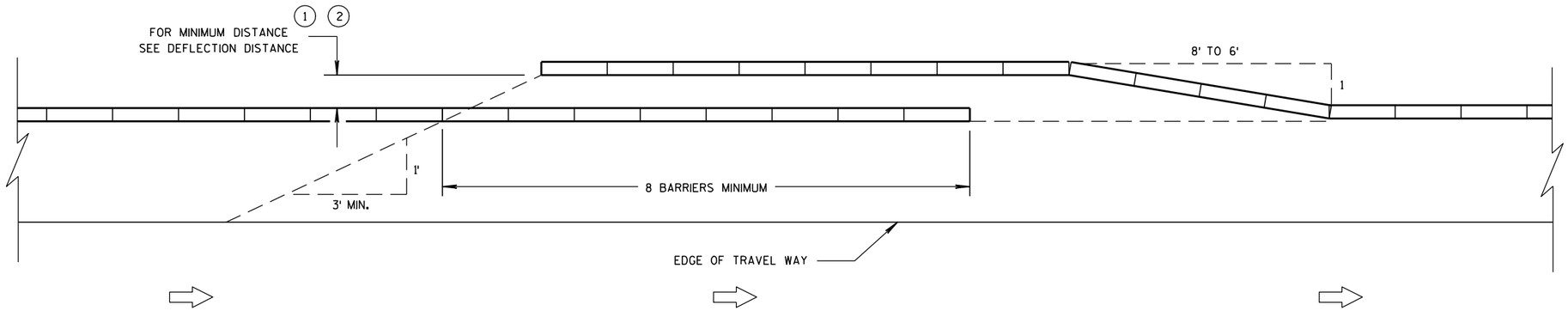
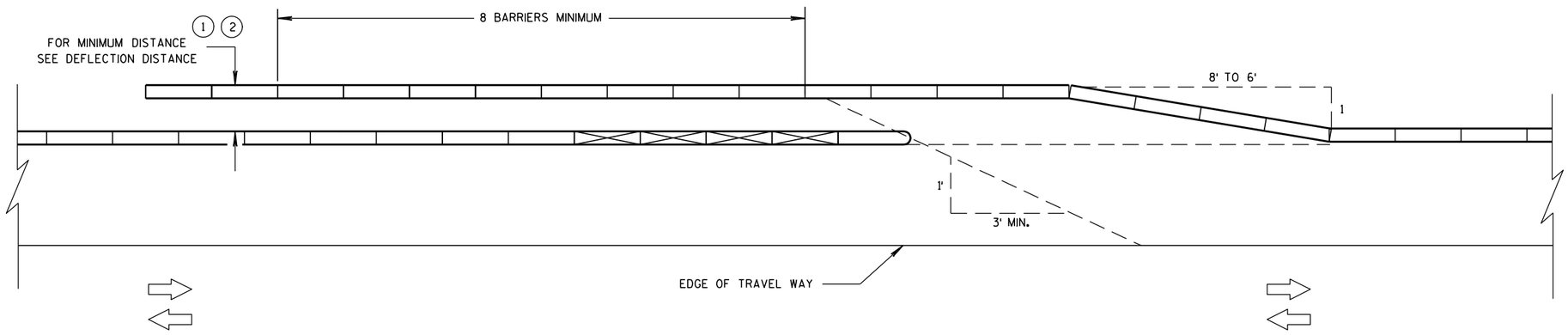
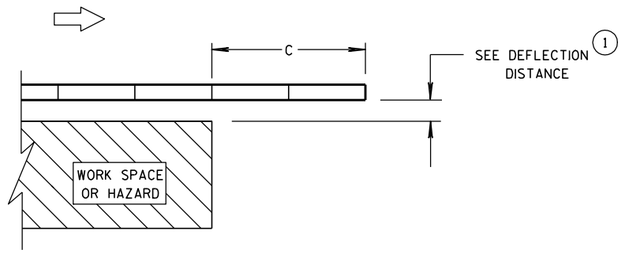
S.D.D. 14 B 8-1b



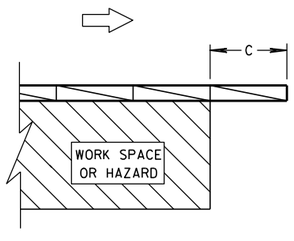
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

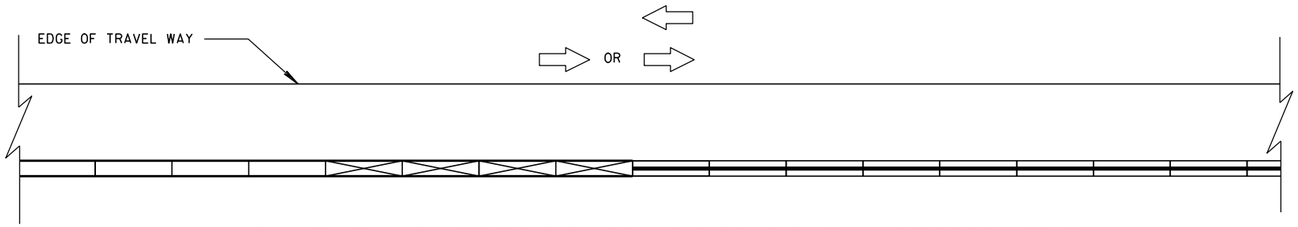
LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

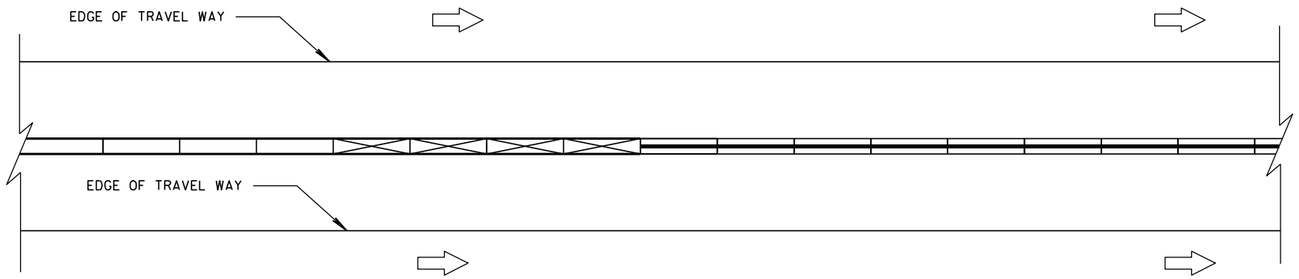
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 8-1c



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR
SAND BARREL ARRAY

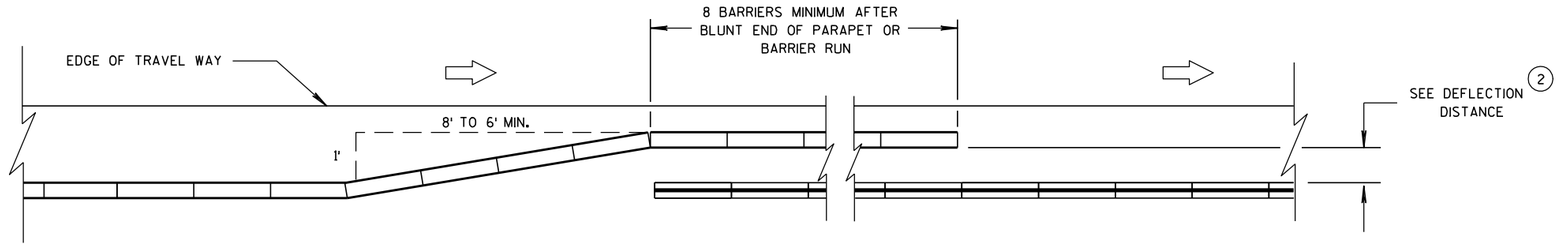
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

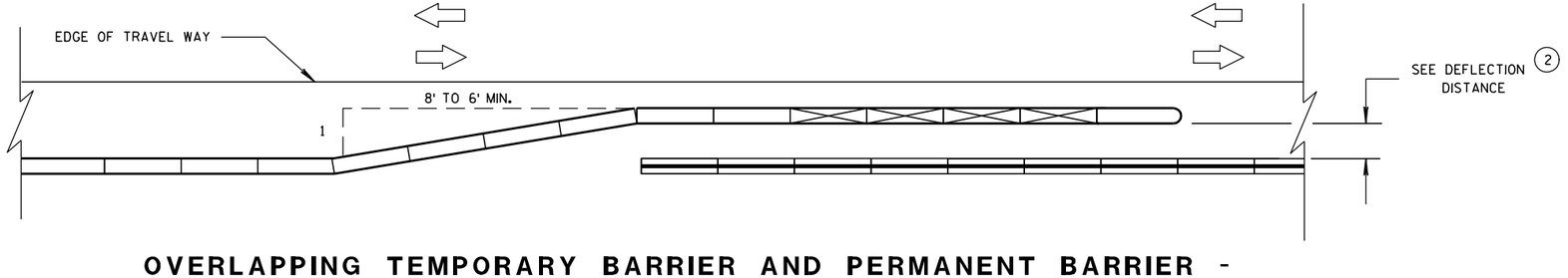
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER
OR CONCRETE PARAPET

FREE STANDING TEMPORARY
BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6
S.D.D. 14 B 8-1d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

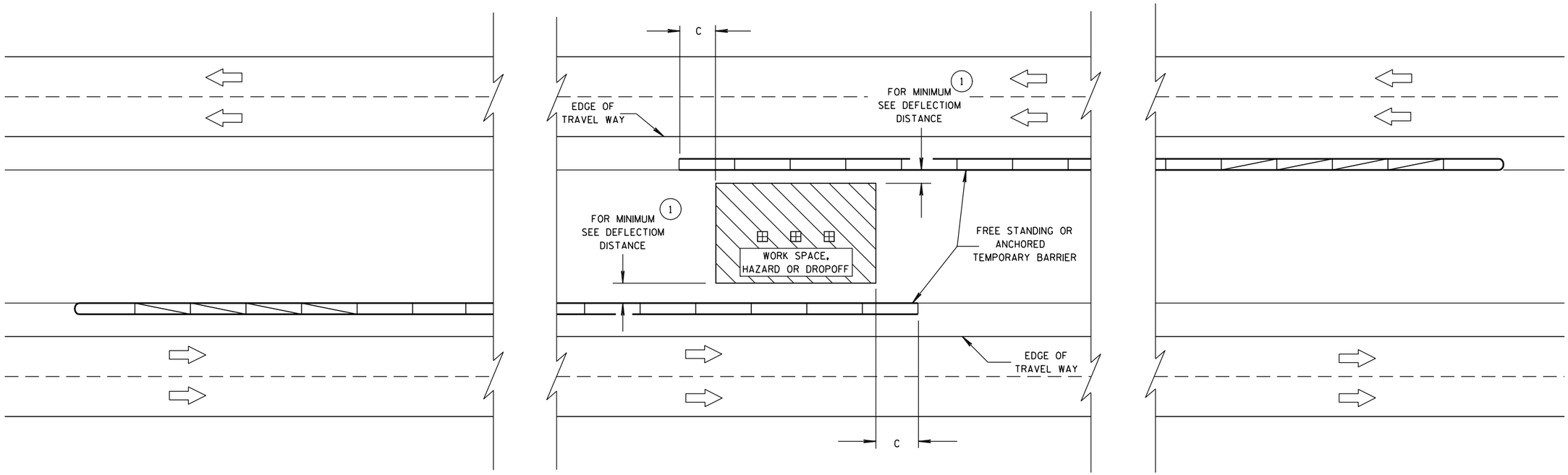
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINNER

543

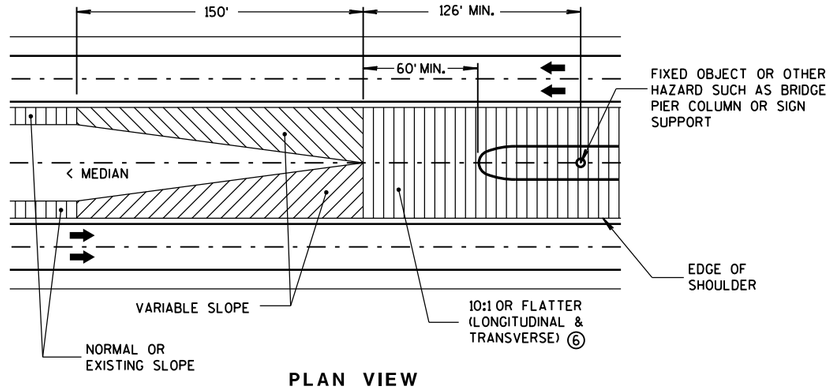
FHWA

6

S.D.D. 14 B 8-1e

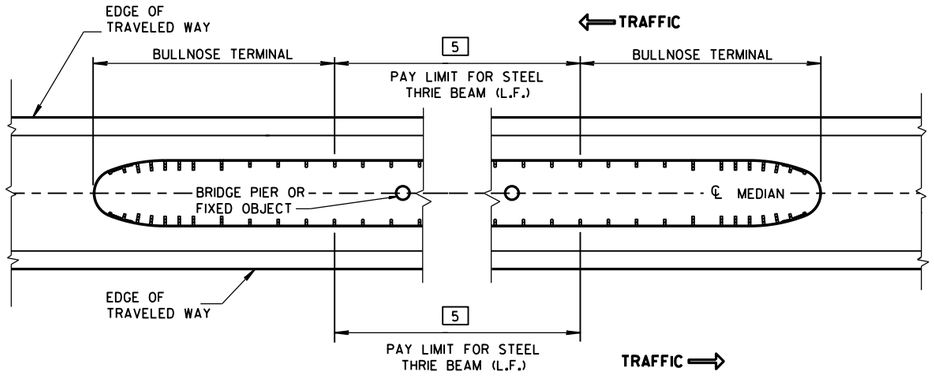
6

S.D.D. 14 B 8-1e

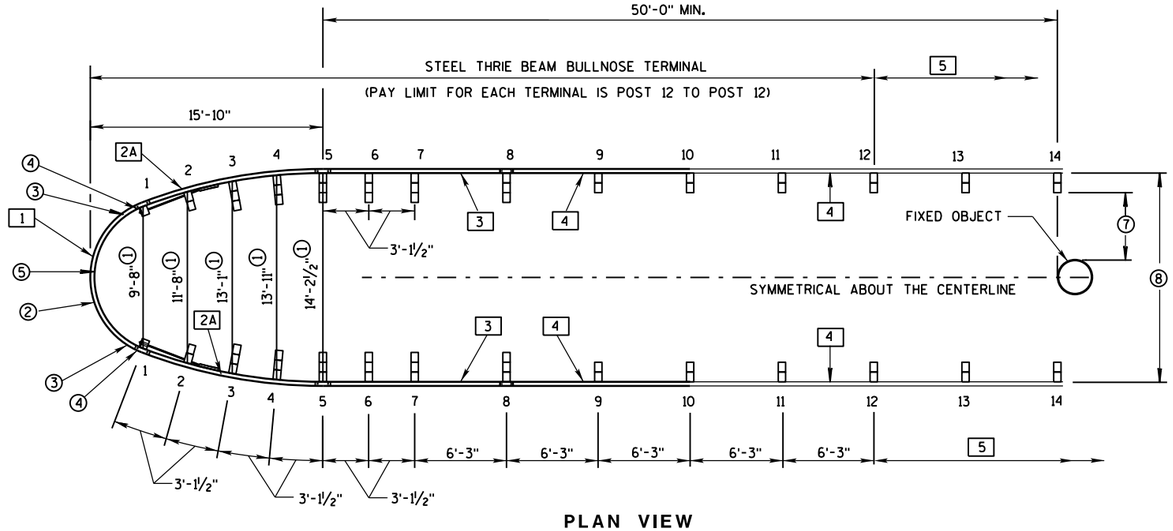


PLAN VIEW

GRADING AT BULLNOSE
(ALL INSTALLATIONS)

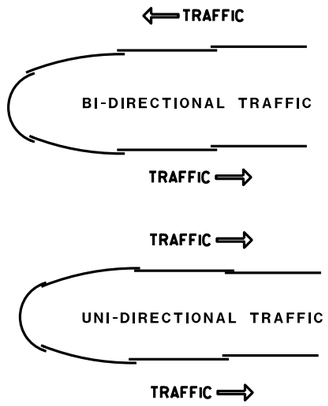


MEDIAN HAZARD PROTECTION PAY LIMITS



PLAN VIEW

TYPICAL BULLNOSE LAYOUT



LAPPING DETAIL
(ALL INSTALLATIONS)

GENERAL NOTES

SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.

PUNCHING, DRILLING, CUTTING OR WELDING IS NOT PERMITTED ON ANY GALVANIZED THRIE BEAM ACCESSORY OR TERMINAL ACCESSORY.

OTHER ANCHOR CABLE ASSEMBLIES HAVING 40,000 LBS. MIN. BREAKING STRENGTH MAY BE USED.

FOR POSTS 2 THROUGH 14, IF POST CANNOT BE INSTALLED AT SPECIFIED LOCATION 1 EXTRA STANDARD WOOD BLOCK MAY BE ADDED.

THE USE OF STEEL POSTS ON THE BULLNOSE IS NOT ALLOWED.

BOLTS AND ALL NECESSARY HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153.

ALL THRIE BEAM SHALL BE 12-GAUGE.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½" AND 12" DIAMETER AROUND POST. SEE SDD 14B15 OR SDD 14B42 FOR MORE INFORMATION.

[1] SLOTTED THRIE BEAM RAIL NO. 1. (POST 1 TO POST 1)

[2A] SLOTTED THRIE BEAM RAIL NO. 2A. (POST 1 TO POST 5)

[3] SLOTTED THRIE BEAM RAIL NO. 3. (POST 5 TO POST 8)

[4] UNBENT STANDARD THRIE-BEAM RAIL NO.4. (POST 8 TO POST 10 & POST 10 TO POST 12)

[5] BEYOND POST 12: CONSTRUCT STEEL THRIE BEAM - USE UNBENT STANDARD THRIE BEAM RAIL NO. 5.

① DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO POST OR BLOCK.

② U-BOLT CABLE CLIPS (3 PER CABLE) SPACED OUT ON NOSE, TO HOLD CABLE TO BACKSIDE OF THE RAIL.

③ NOSE CABLE W/SWAGGED END BUTTONS.

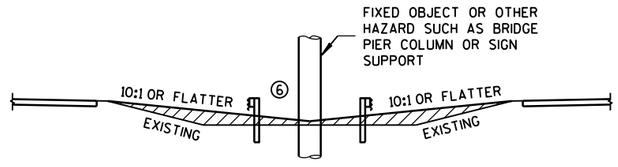
④ NOSE CABLE ANCHOR PLATE (BACKSIDE OF SPLICE).

⑤ THE SLACK IN THE NOSE CABLES SHALL BE EVENLY DISTRIBUTED BETWEEN THE CABLE CLIP FASTENERS AND POST NO. 1 ON EITHER SIDE OF THE NOSE.

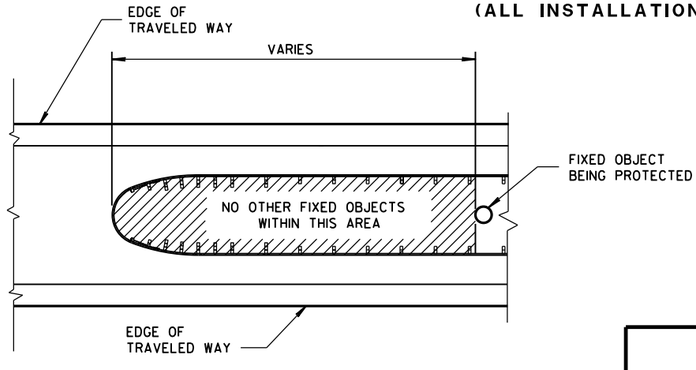
⑥ PROVIDE SUITABLE DRAINAGE WHEN MEDIAN GRADING IMPEDES NORMAL FLOW.

⑦ 2'-6" MINIMUM LATERAL DISTANCE BETWEEN BACK OF POST AND FACE OF FIXED OBJECT.

⑧ MAXIMUM WIDTH OF SYSTEM IS 14'-2½" MEASURED FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO A POST OR BLOCK.



MEDIAN GRADING SECTION
(ALL INSTALLATIONS)

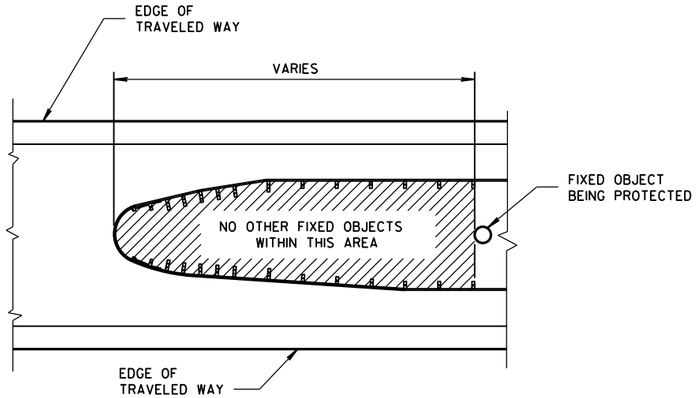


HAZARD FREE AREA INSIDE BULLNOSE

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 14 B 26-3a



HAZARD FREE
AREA INSIDE BULLNOSE

GENERAL NOTES

SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.

FOR POSTS 2 THROUGH 14, IF POST CANNOT BE INSTALLED AT SPECIFIED LOCATION 1 EXTRA STANDARD WOOD BLOCK MAY BE ADDED.

[1] SLOTTED THRIE BEAM RAIL NO. 1. (POST 1 TO POST 1)

[2A] SLOTTED THRIE BEAM RAIL NO. 2A, (POST 1 TO POST 5)

[2B] SLOTTED THRIE BEAM RAIL NO. 2B, (POST 1 TO POST 5)

[3] SLOTTED THRIE BEAM RAIL NO. 3. (POST 5 TO POST 8)

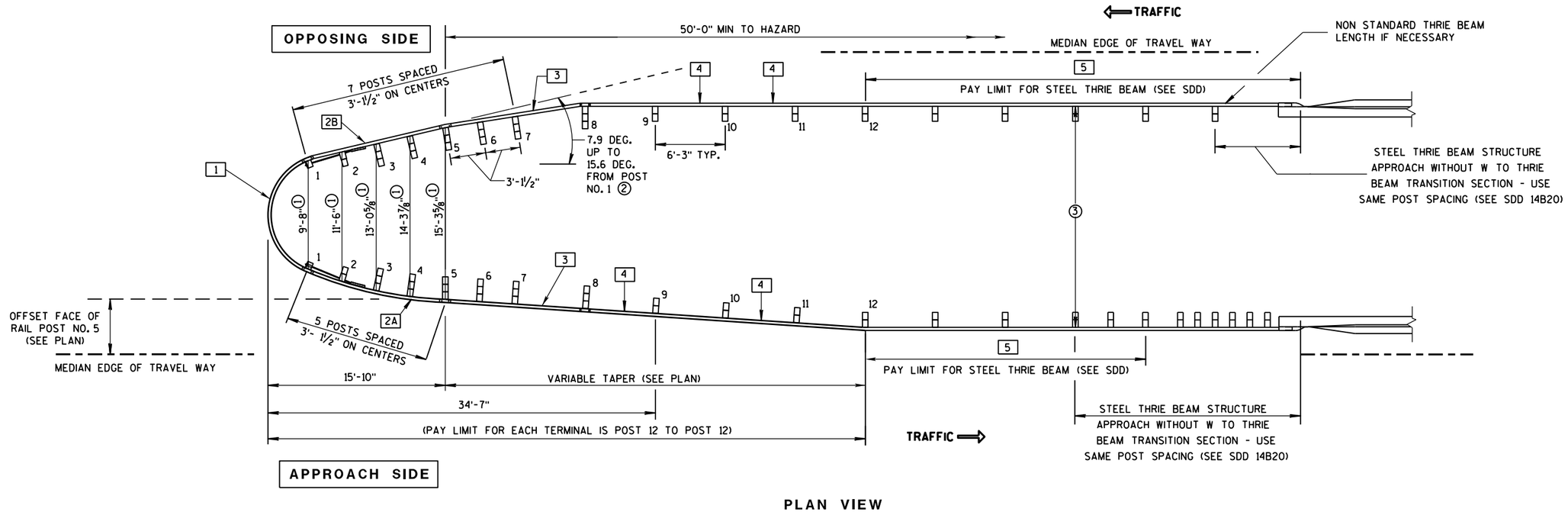
[4] UNBENT STANDARD THRIE-BEAM RAIL NO. 4, (POST 8 TO POST 10 & POST 10 TO POST 12)

[5] BEYOND POST 12: CONSTRUCT STEEL THRIE BEAM - USE UNBENT STANDARD THRIE BEAM RAIL NO. 5.

① DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO POST.

② TAPER BEGINNING AT POST NO. 1 MUST CONTINUE TO POST NO. 5. PAST POST NO. 5 TAPER MAY END OR BE EXTENDED UP TO 15.6 DEGREES TO FIT VARIABLE MEDIAN WIDTHS. (SEE PLAN)

③ FOR MEDIANS WIDER THAN 14'-2½" MEASURED FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO A POST OR BLOCK.



PLAN VIEW

WIDENED BULLNOSE DESIGN

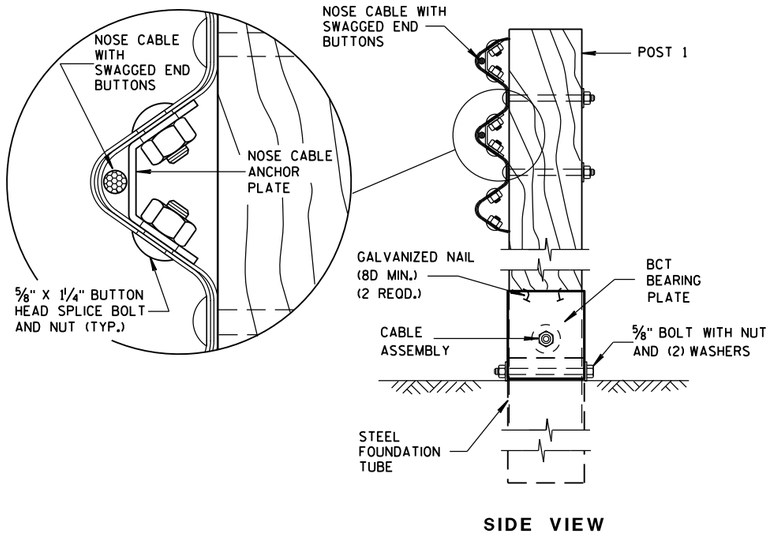
(INSTALLATION AT TWIN BRIDGES WITH BI-DIRECTIONAL TRAFFIC SHOWN)

STEEL THRIE BEAM
BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

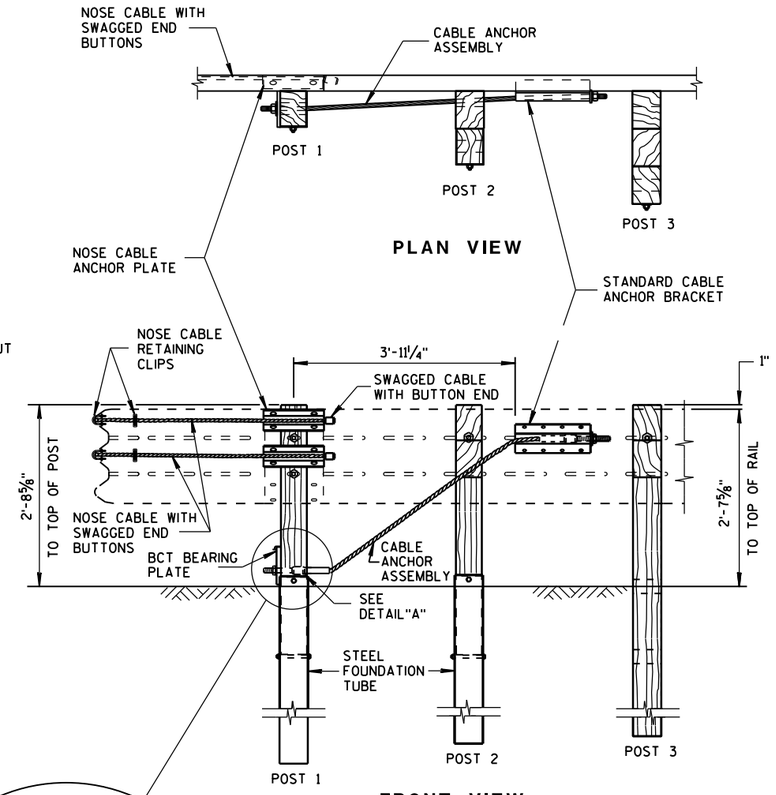
6

S.D.D. 14 B 26-3b



SIDE VIEW

NOSE CABLE ASSEMBLY AT POST NO. 1



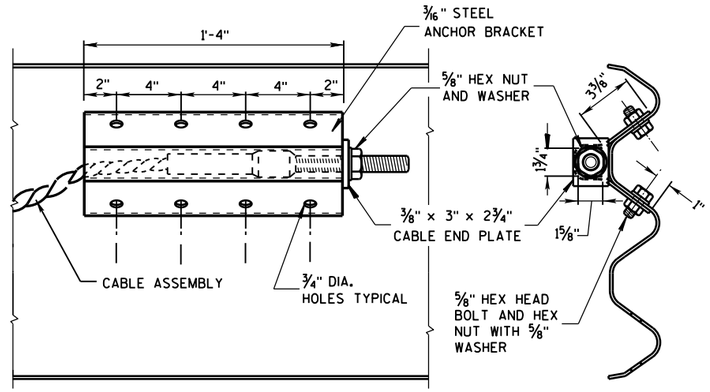
PLAN VIEW

FRONT VIEW

NOSE CABLE ANCHOR AND STANDARD BRACKET ASSEMBLY

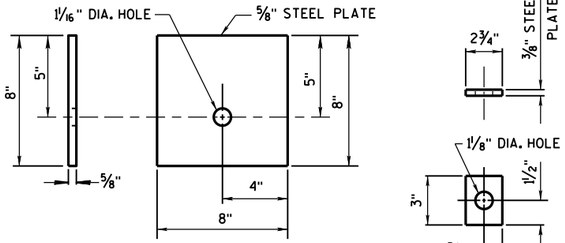
GENERAL NOTES

SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.



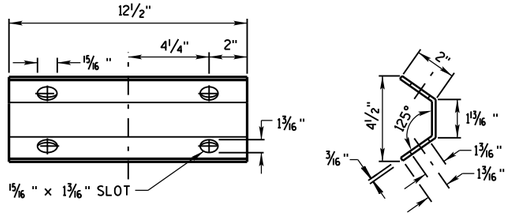
FRONT VIEW END VIEW

DETAILS OF CABLE ANCHOR BRACKET



BCT BEARING PLATE

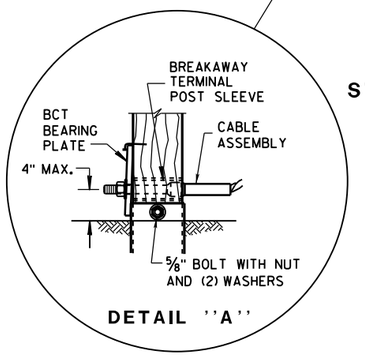
CABLE END PLATE



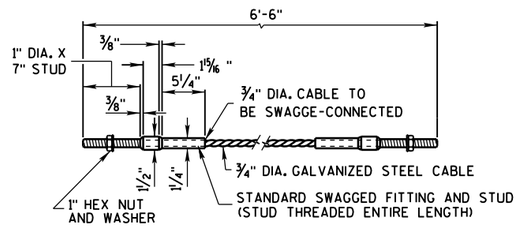
ELEVATION VIEW END VIEW

NOSE CABLE ANCHOR PLATE

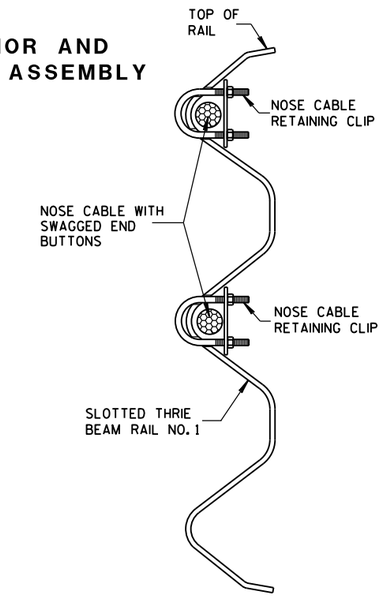
NOTE: 12 1/2" x 5 13/16" x 3/16" STEEL PLATE (A306)



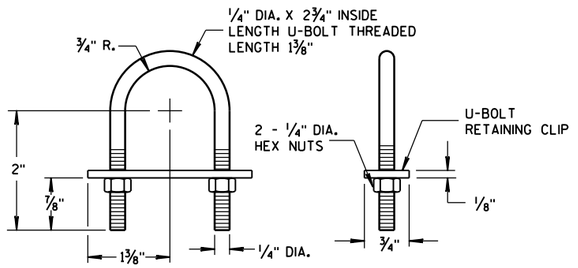
DETAIL ''A''



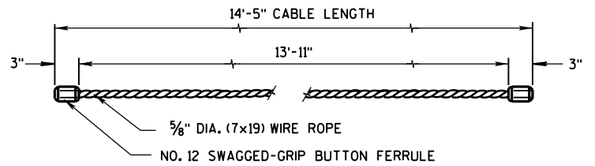
DETAILS OF CABLE ANCHOR ASSEMBLY



PLACEMENT OF NOSE CABLE RETAINING CLIP



NOSE CABLE RETAINING CLIP



NOSE CABLE WITH SWAGGED END BUTTONS

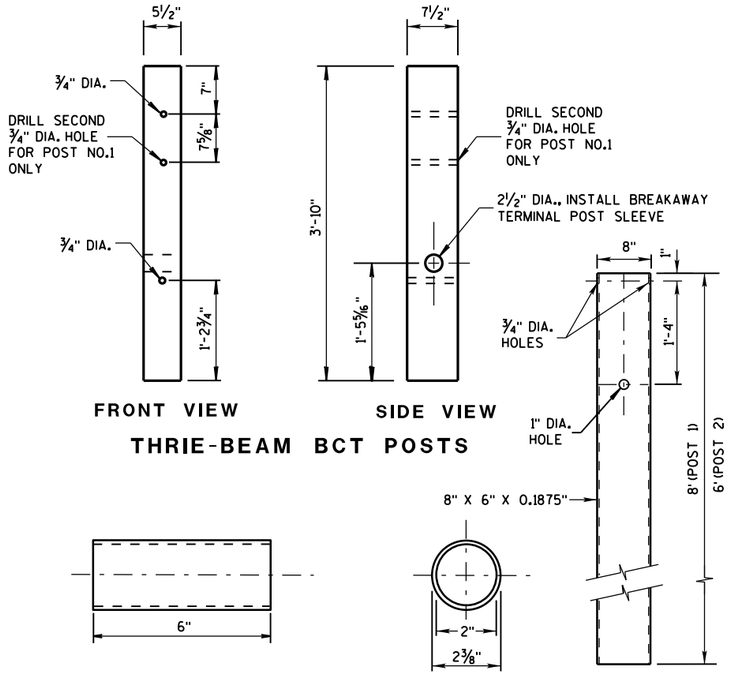
TO PULL OFF SWAGGED GRIP BUTTON FERRULE FROM WIRE ROPE REQUIRES A FORCE EQUAL TO 98% OF THE WIRE ROPE'S BREAKING STRENGHT.

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 26-3c

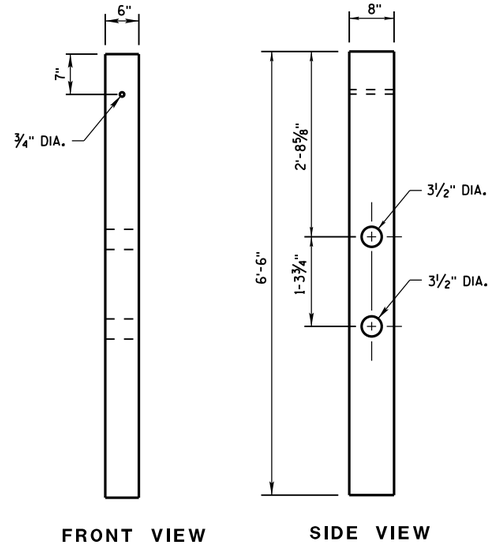


FRONT VIEW SIDE VIEW

THRIE-BEAM BCT POSTS

BREAKAWAY TERMINAL POST SLEEVE

STEEL FOUNDATION TUBE

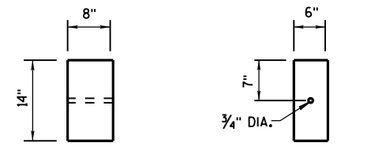


FRONT VIEW SIDE VIEW

THRIE-BEAM CRT WOOD POSTS

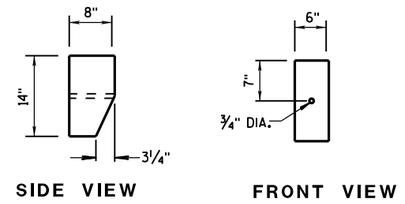
GENERAL NOTES

SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.



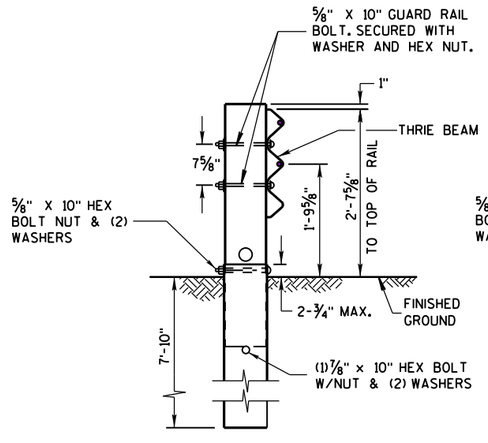
SIDE VIEW FRONT VIEW

STANDARD WOOD BLOCK



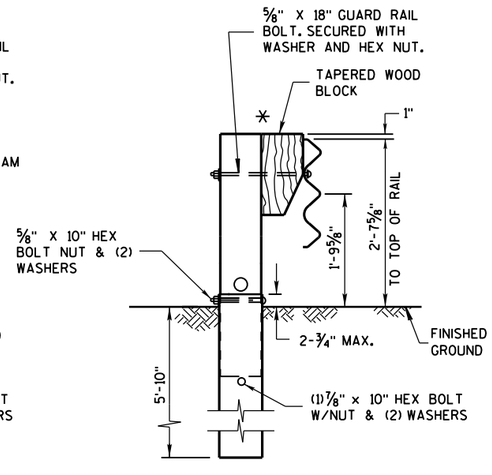
SIDE VIEW FRONT VIEW

TAPERED WOOD BLOCK



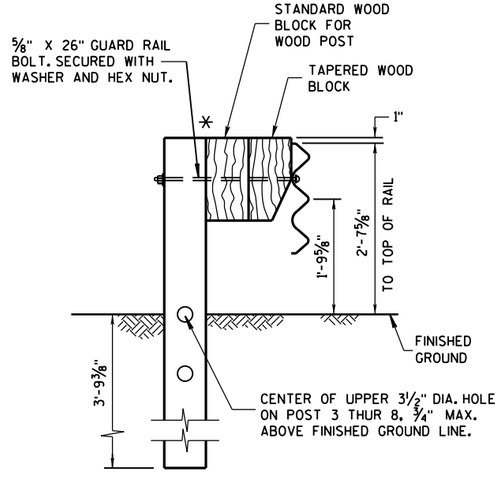
THRIE-BEAM BCT POST
(WITH 8'-0" FOUNDATION TUBE)

POST NO. 1



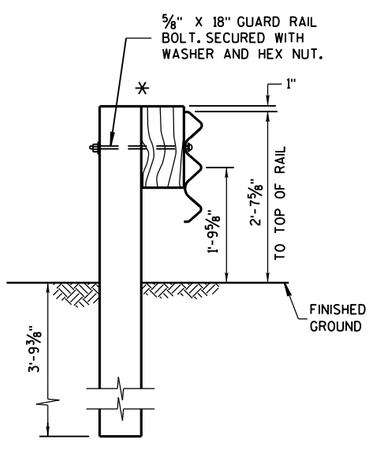
THRIE-BEAM BCT POST
(WITH 6'-0" FOUNDATION TUBE AND 1'-2" TAPERED BLOCK)

POST NO. 2



THRIE-BEAM CRT POST
(6'-6" LONG POST WITH 1'-2" BLOCK AND 1'-2" TAPERED BLOCK)

POST NO. 3,4,5,6,7, & 8



THRIE-BEAM POST
(6'-6" LONG POST WITH 1'-2" BLOCK)

POST NO. 9,10,11,& 12

(ALSO USE FOR STEEL THRIE BEAM BEYOND POST 12)

* IF NEEDED DUE TO AN UNDERGROUND OBSTACLE ADD 1 ADDITIONAL STANDARD BLOCKOUT TO POST.

STEEL THRIE BEAM BULLNOSE TERMINAL

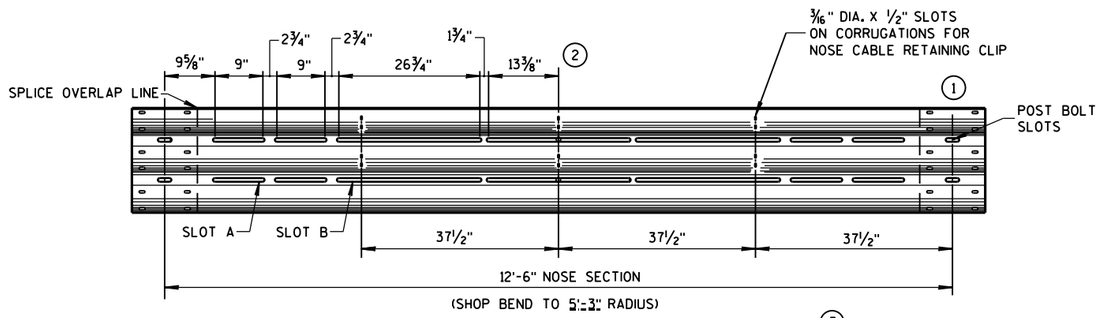
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 547

6

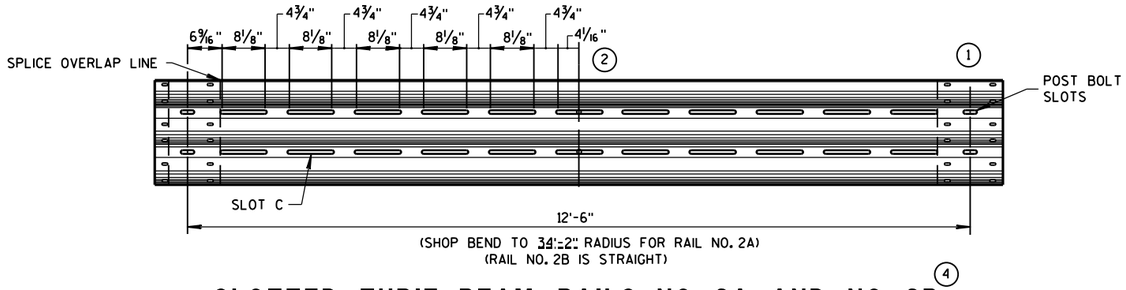
S.D.D. 14 B 26-3d

6

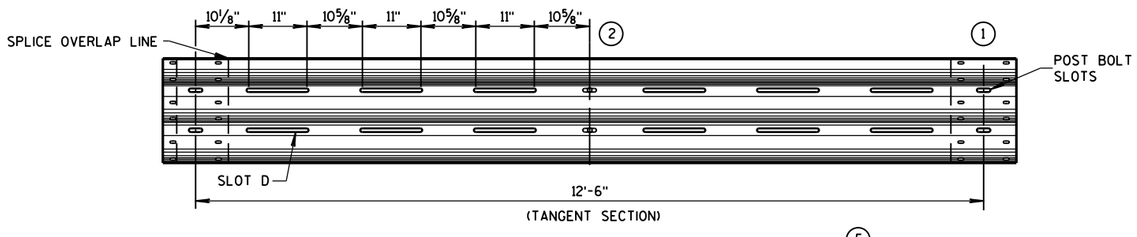
S.D.D. 14 B 26-3d



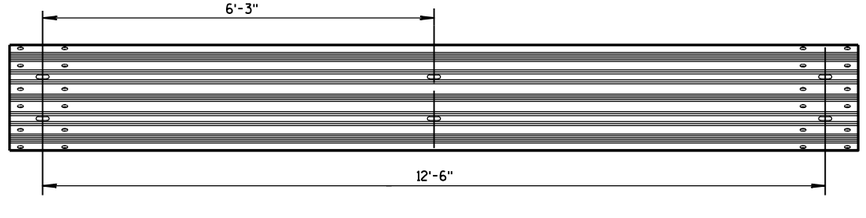
SLOTTED THRIE BEAM RAIL NO. 1 (3)



SLOTTED THRIE BEAM RAILS NO. 2A AND NO. 2B (4)



SLOTTED THRIE BEAM RAIL NO. 3 (5)



UNBENT STANDARD THRIE BEAM RAIL NO. 4 AND NO. 5

GENERAL NOTES

SEE STANADRD DETAIL DRAWINGS 14 B 26a-e.

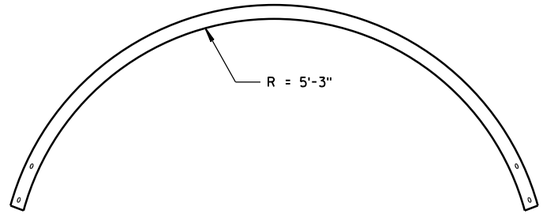
(1) SLOTTED THRIE BEAM RAIL DIMENSIONS SHOWN ARE BEFORE BENDING TO THE RADIUS SHOWN.

(2) SLOT SIZE AND SPACING SYMMETRIC.

(3) SLOTTED THRIE BEAM RAIL NO. 1, 12'-6", SHOP BEND TO R=5'-3".

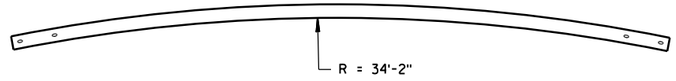
(4) SLOTTED THRIE BEAM RAIL NO. 2A, 12'-6", SHOP BEND TO R=34'-2".
SLOTTED THRIE BEAM RAIL NO. 2B, 12'-6", RAIL IS STRAIGHT.

(5) SLOTTED THRIE BEAM RAIL NO. 3, 12'-6", TANGENT.



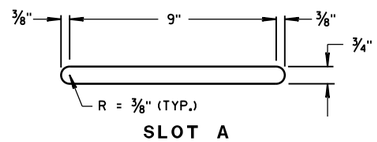
PLAN VIEW

SLOTTED THRIE BEAM RAIL NO. 1

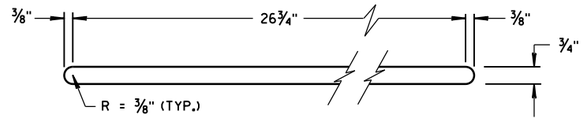


PLAN VIEW

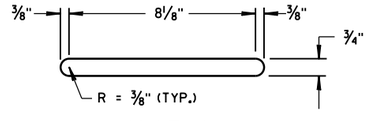
SLOTTED THRIE BEAM RAIL NO. 2A



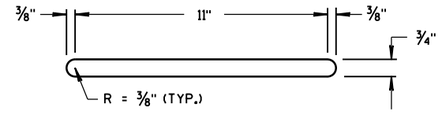
SLOT A



SLOT B



SLOT C



SLOT D

SLOT DETAILS

STEEL THRIE BEAM
BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 14 B 26-3e

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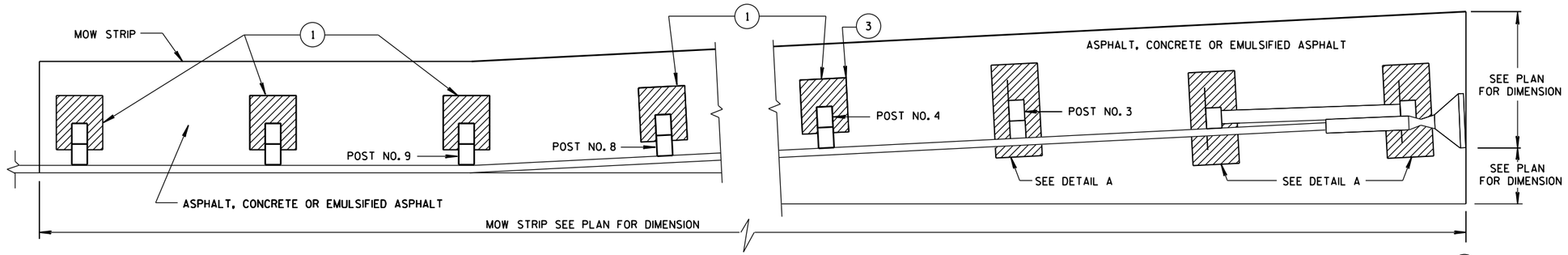
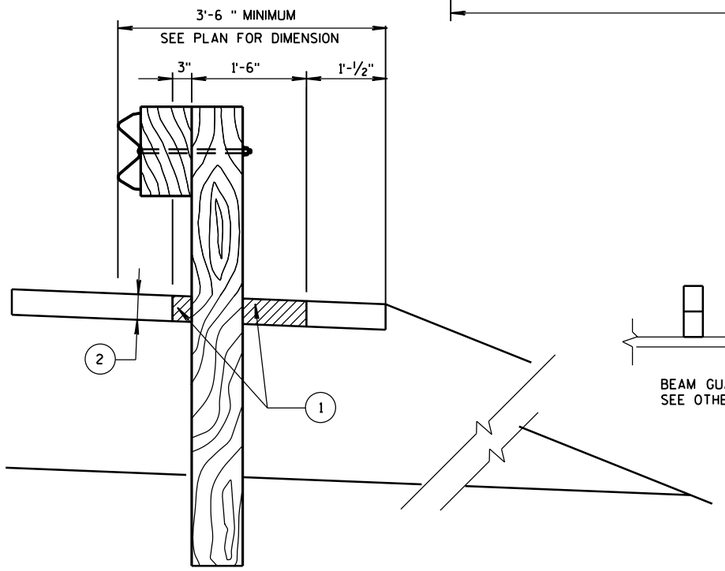
S.D.D. 14 B 26-3e

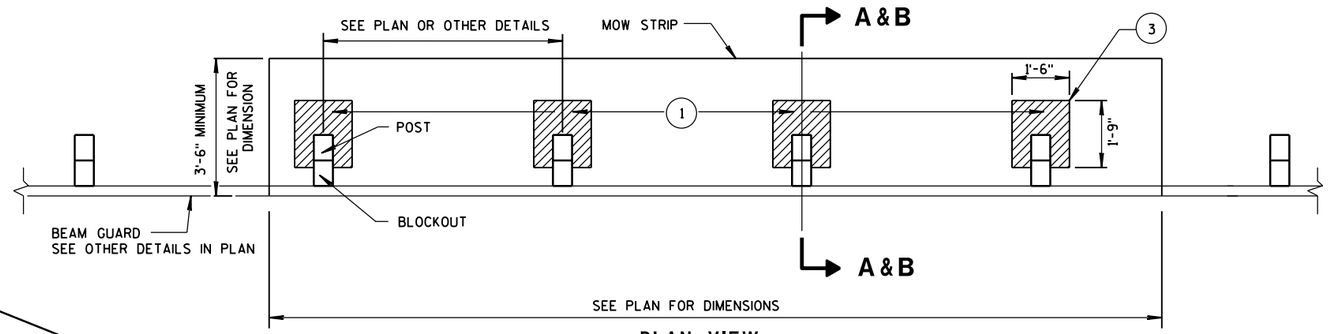


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

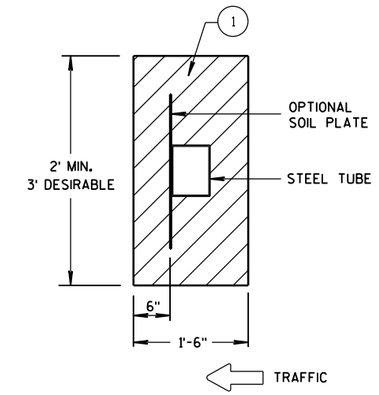


SECTION A-A

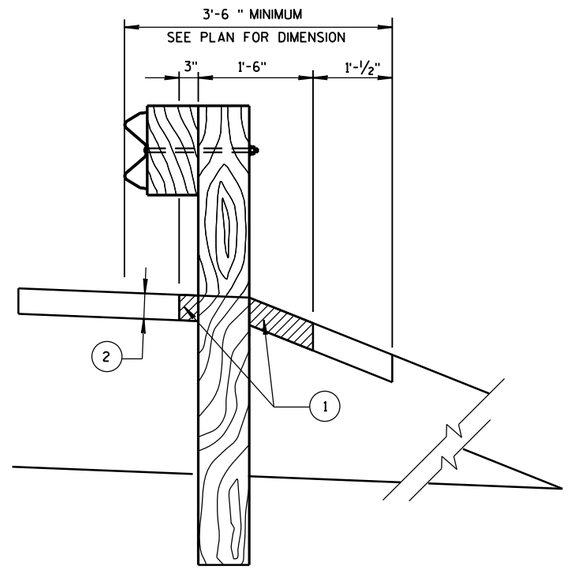


PLAN VIEW

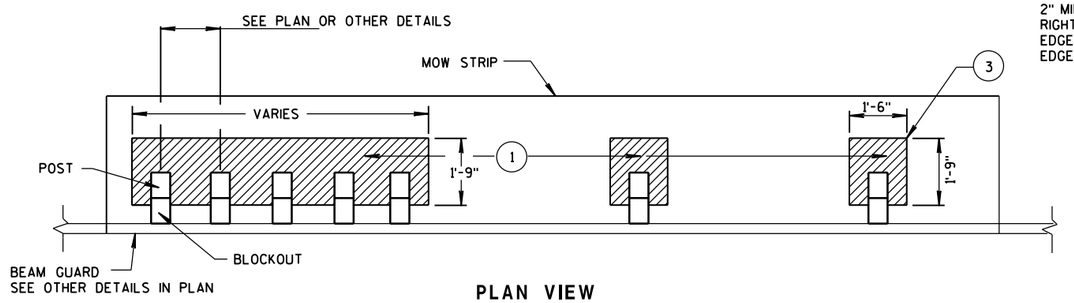
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

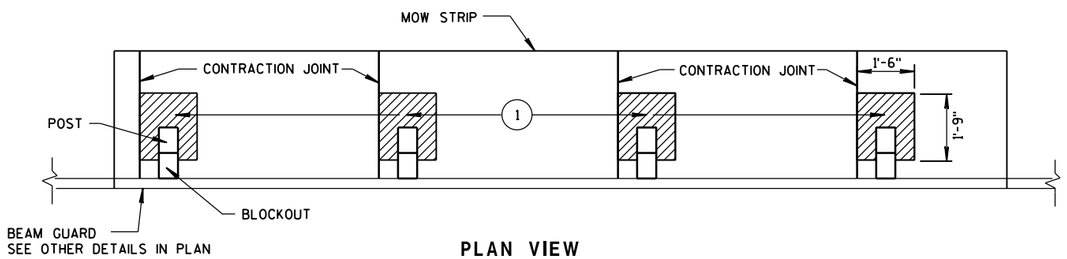


SECTION B-B



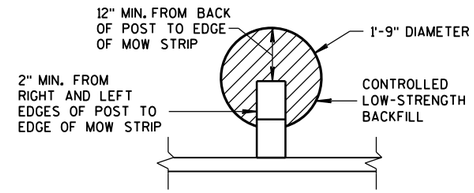
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(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

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S.D.D. 14 B 28-3

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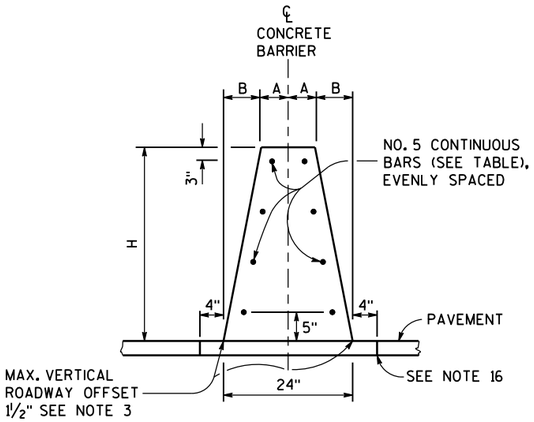
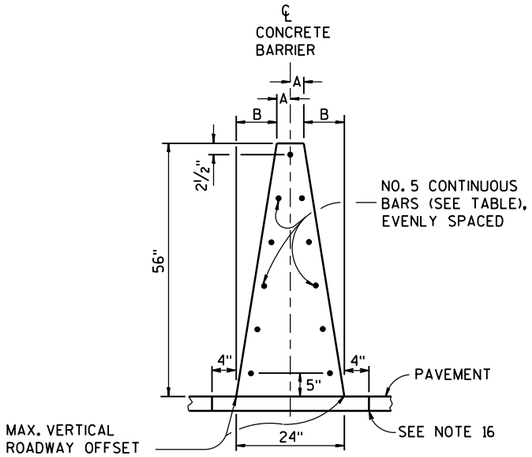
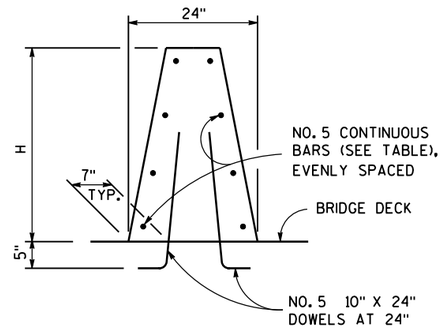
S.D.D. 14 B 28-3



32-INCH, 36-INCH OR 42-INCH SINGLE SLOPE CONCRETE BARRIER (TYPE S32, TYPE S36, AND TYPE S42)



56-INCH SINGLE SLOPE CONCRETE BARRIER (TYPE S56)



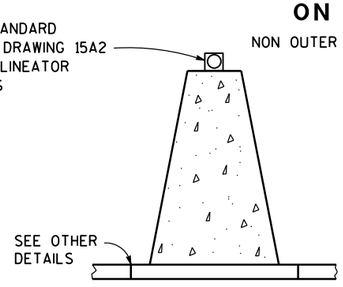
SINGLE SLOPE CONCRETE BARRIER ON BRIDGE

NON OUTER PARAPET APPLICATION

GENERAL NOTES

1. WHERE THE CONCRETE BARRIER IS ADDED TO THE FACE OF EXISTING CONCRETE STRUCTURE, MATCH EXISTING WEEP HOLES.
2. EXPANSION JOINTS IN CONCRETE BARRIER SHALL BE LOCATED AT ALL DECK, AND PRINCIPAL WALL JOINTS. EXPANSION JOINT FILLER MATERIAL SHALL BE THE SAME SIZE AS JOINT OR ½" MINIMUM.
3. WHERE VERTICAL ROADWAY OFFSET IS GREATER THAN 1½", USE TYPE A
4. PLACE BARRIER PERPENDICULAR TO SHOULDER GRADE, UNLESS INDICATED IN PLAN.
5. EXCEPT IN ANCHORS, VERTICAL REINFORCING STIRRUP NOT REQUIRED FOR ROADWAY OFFSETS LESS THAN 1'-0".
6. FOR TYPE S32, TYPE S36, TYPE S42, AND S56 MONOLITHIC FOOTING OR DOWELED FOOTING WITH 2-#8 x 8" @ 2'-0".
7. STAGGER LAPPING OF LONGITUDINAL STEEL. MINIMUM OVERLAP OF STEEL 2 FEET. BARS AT LAPS TO BE FIRMLY TIED OR CONNECTED.
8. 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATION 501.
9. WHEN SWITCHING BETWEEN SLIP FORM AND CAST-IN-PLACE OPERATIONS, EXTEND LONGITUDINAL STEEL 3 FEET BEYOND SLIP-FORMING CUT OFF POINT. EXPOSED STEEL INTO NEXT POURS REINFORCEMENT. LAPS TO BE FIRMLY TIED.
10. USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
11. 2" CLEAR COVER TYPICAL.
12. COLD-JOINTS MAY BE USED BETWEEN ANCHOR INSTALLATIONS. WHEN A COLD JOINT IS NEEDED, 3 FEET OF LAP OF LONGITUDINAL STEEL IS REQUIRED. LAPS TO BE FIRMLY TIED.
13. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 NO ADDITIONAL VERTICAL STEEL NEEDED. IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A REQUIRES VERTICAL STEEL. SEE OTHER DETAIL.
14. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 DEPTH OF FOOTING 10". IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A MATCH TOTAL HEIGHT OF SINGLE SLOPE BARRIER RETAINING WALL.
15. FOR ALL BARRIER TYPES SHOWN, ANCHOR IS REQUIRED AT CONCRETE BARRIER ENDS AND AT INTERRUPTIONS IN CONCRETE BARRIER. ANCHOR MAY BE AS SHOWN ON DRAWING OR DETAILS SHOWN ON S.D.D. 14B33. ANCHORS INCIDENTAL TO CBSS.
16. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.

BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF NO. 5 BARS EACH
32	7	5	8
36	6¼	5¾	8
42	5¼	6¾	10
56	3	9	11



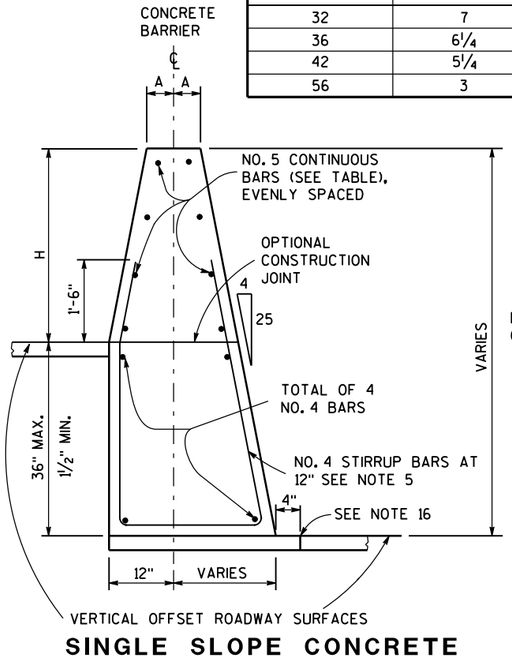
DELINEATION

DELINEATOR SPACING ON HORIZONTAL CURVES

RADIUS OF CURVE	APPROXIMATE SPACING ON CURVE
50 FEET	20 FEET
115 FEET	25 FEET
180 FEET	35 FEET
250 FEET	40 FEET
300 FEET	50 FEET
400 FEET	55 FEET
500 FEET	65 FEET
600 FEET	70 FEET
700 FEET	75 FEET
800 FEET	80 FEET
900 FEET	85 FEET
1000 FEET	90 FEET

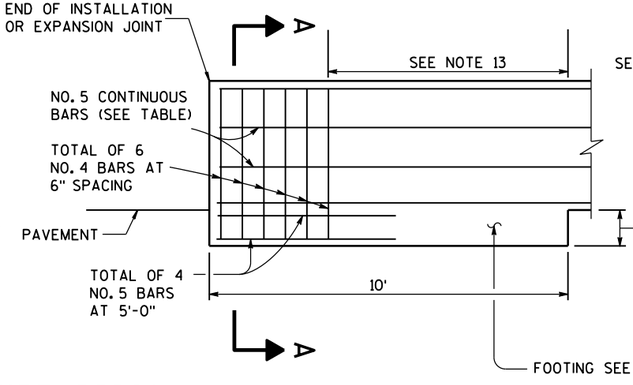
DELINEATOR SPACING ON RADIUS GREATER THAN 1000 FEET OR TANGENT SECTIONS

	LENGTH OF BARRIER	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	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2	



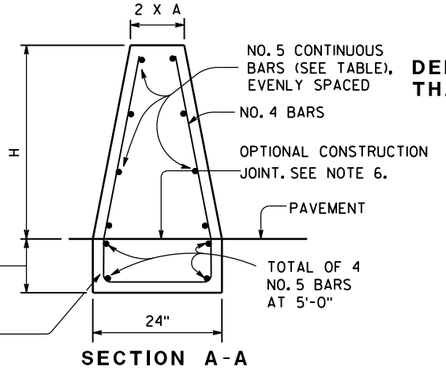
SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL (TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)

(BETWEEN ADJACENT ROADWAYS)



END ANCHOR SINGLE SLOPE CONCRETE BARRIER

AT CONSTRUCTION JOINT



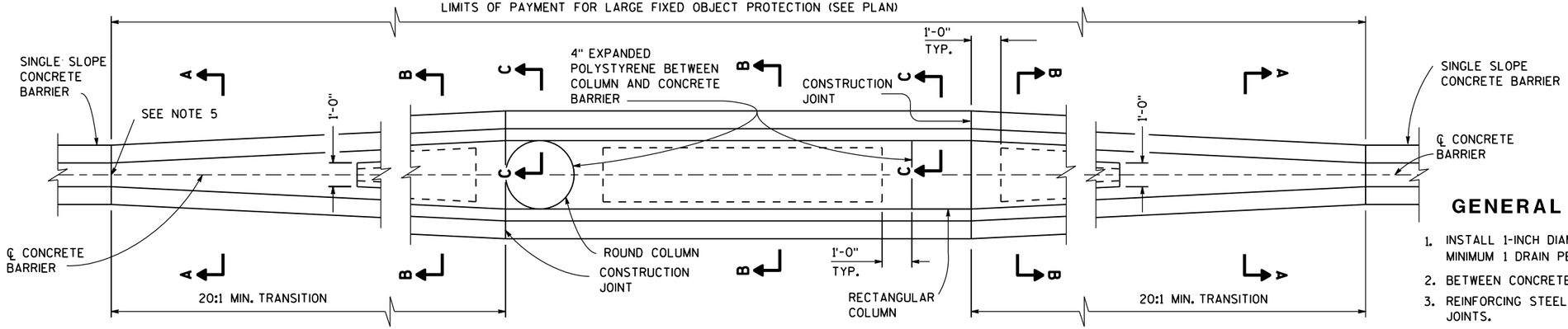
SECTION A-A

CONCRETE BARRIER SINGLE SLOPE (CBSS)

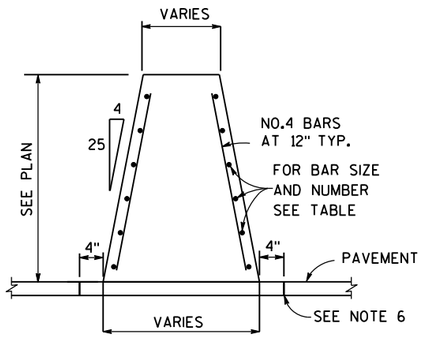
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

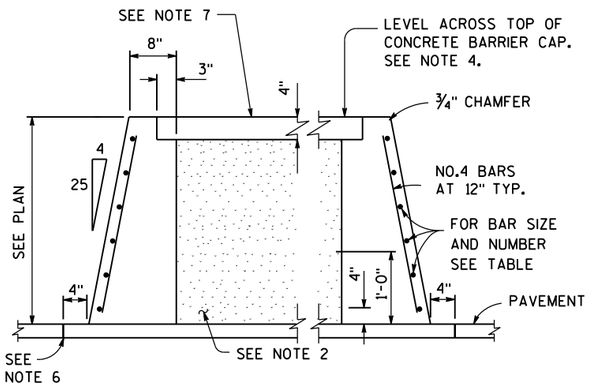
S.D.D. 14 B 32-3a



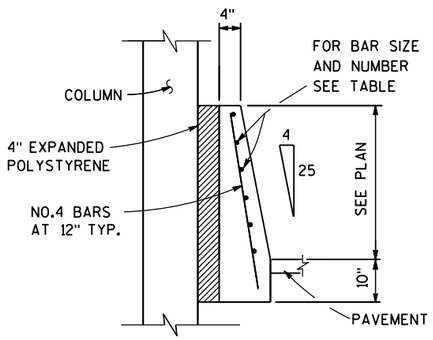
LARGE FIXED OBJECTS PROTECTION
TYPE S32, TYPE S36, TYPE S42, TYPE S56



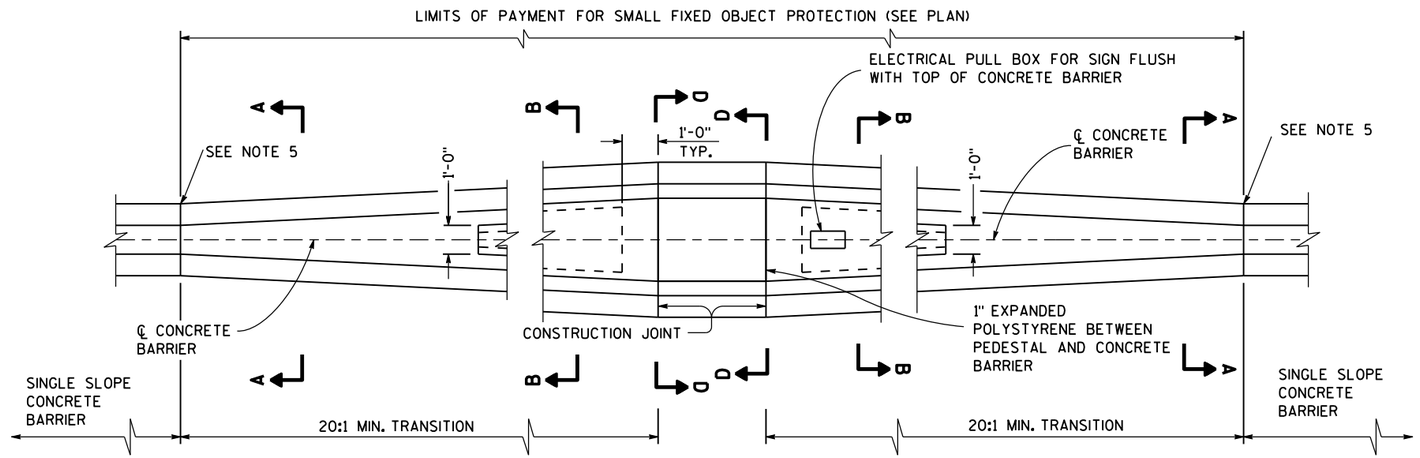
SECTION A-A



SECTION B-B



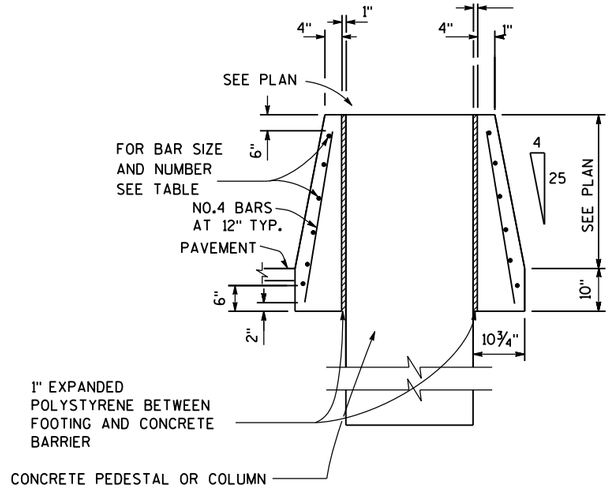
SECTION C-C



SMALL FIXED OBJECTS PROTECTION
TYPE S32, TYPE S36, TYPE S42, TYPE S56

GENERAL NOTES

1. INSTALL 1-INCH DIAMETER DRAIN PIPE EVERY 20 FEET OF CROSS SECTION B-B. MINIMUM 1 DRAIN PER CAVITY.
2. BETWEEN CONCRETE BARRIER WALLS FILL WITH GRANULAR BACKFILL GRADE 2
3. REINFORCING STEEL SHALL EXTEND CONTINUOUS THROUGH CONSTRUCTION JOINTS.
4. ADJUST HEIGHT OF CONCRETE BARRIER WALL ON LOW SIDE OF OFFSET OR SUPERELEVATED ROADWAYS TO PROVIDE LEVEL GRADE ACROSS TOP OF CONCRETE CAP.
5. IF FIXED OBJECT PROTECTION IS INSTALLED FIRST, USE COLD JOINTS. IF CBSS PLACED FIRST, USE EXPANSION JOINT.
6. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
7. USE NO. 3 BAR SPACED 12 INCHES CENTER TO CENTER (PLACED IN EACH DIRECTION) OR EQUIVALENT WIRE MESH.



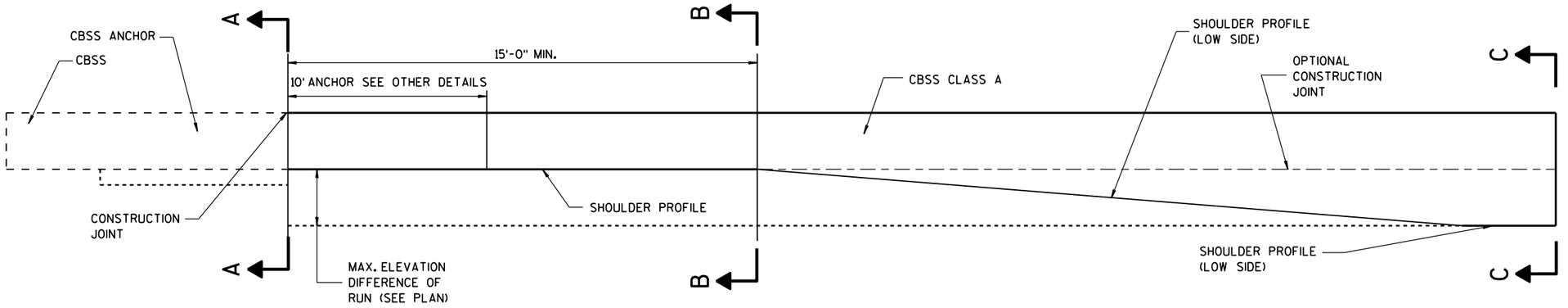
SECTION D-D

BARRIER HEIGHT H INCHES	BAR SIZE	NUMBER OF BARS EACH
32	4	6
36	4	6
42	5	6
56	5	9

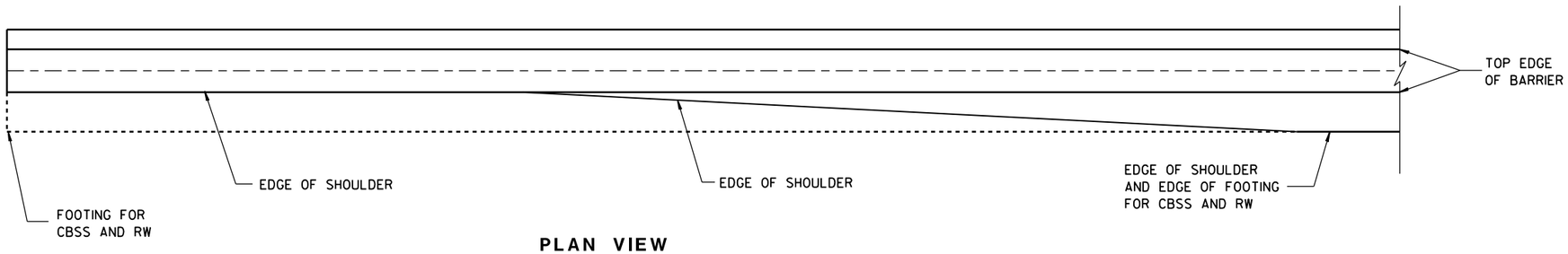
CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

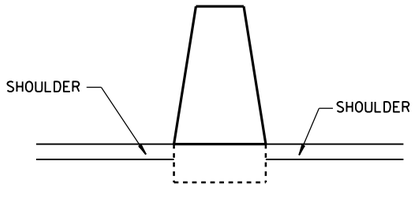
6
S.D.D. 14 B 32-3b



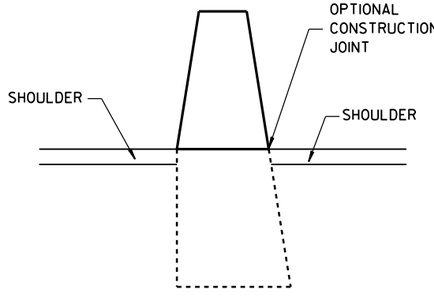
ELEVATION VIEW
TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)



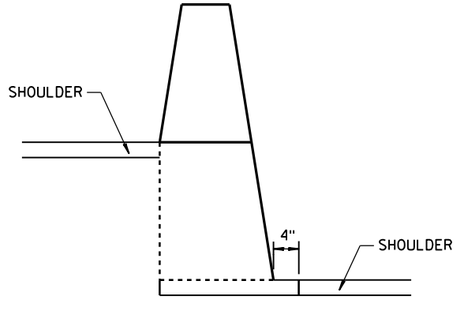
PLAN VIEW
TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)



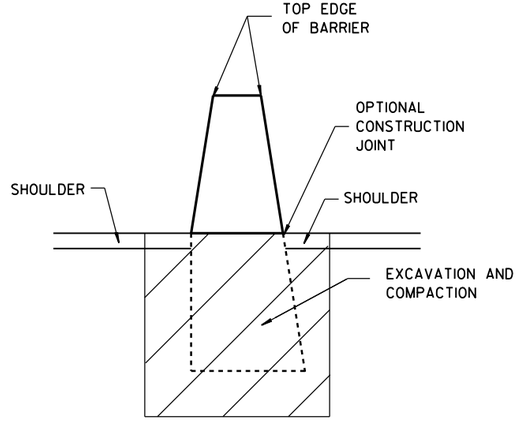
SECTION A-A



SECTION B-B



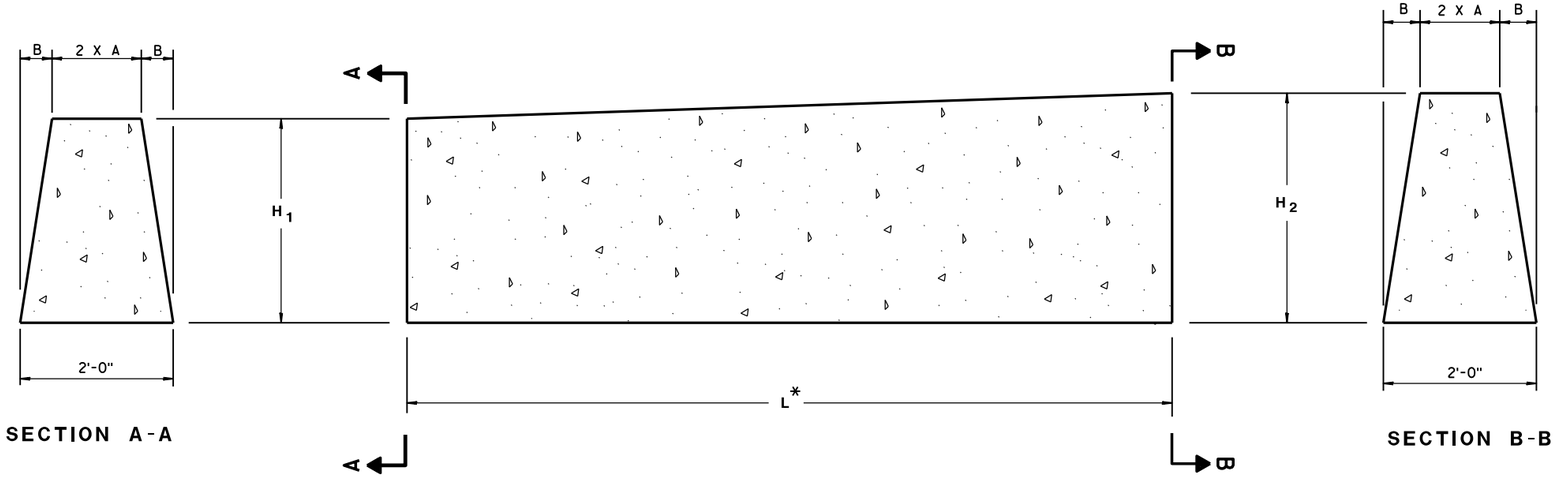
SECTION C-C



CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 32-3c



SECTION A-A

SECTION B-B

DOUBLE COLD JOINT HEIGHT TRANSITION

BARRIER DIMENSIONS

BARRIER HEIGHT INCHES	A INCHES	B INCHES
32	7	5
36	6 1/4	5 3/4
42	5 1/4	6 3/4
56	3	9

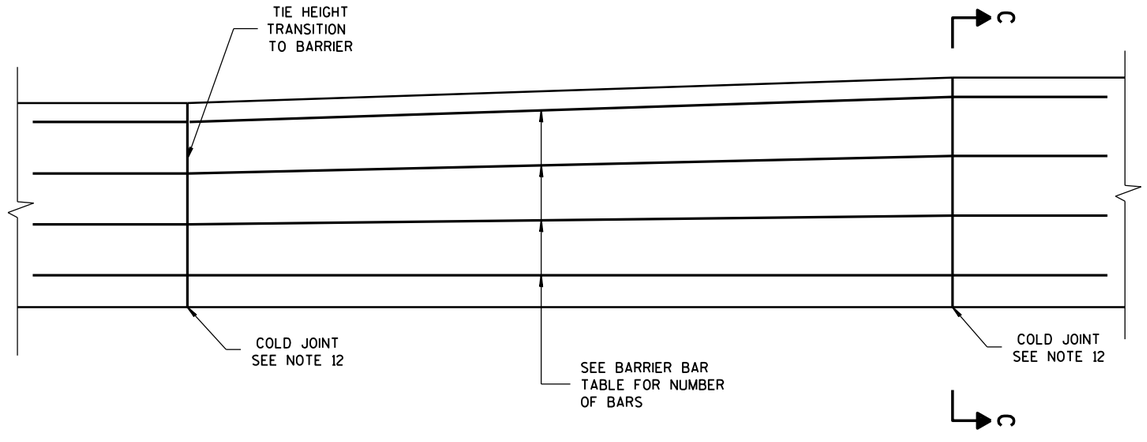
MULTIPLE HEIGHT TRANSITIONS MAY BE USED IN SEQUENCE TO GET TO APPROPRIATE HEIGHT.

USE COLD JOINT TO CONNECT MULTIPLE HEIGHT TRANSITIONS.

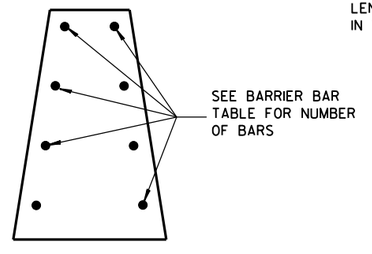
BARRIER BARS

H_1	H_2	L*	NUMBER OF NO. 5 BARS
32"	36"	10'-0"	8
36"	42"	10'-6"	10
42"	56"	24'-6"	11

* LENGTH OF DOUBLE COLD JOINT INCLUDED IN THE TOTAL LENGTH OF CBSS.



STEEL REINFORCEMENT DETAIL



SECTION C-C

CONCRETE BARRIER SINGLE SLOPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2014 — DATE

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

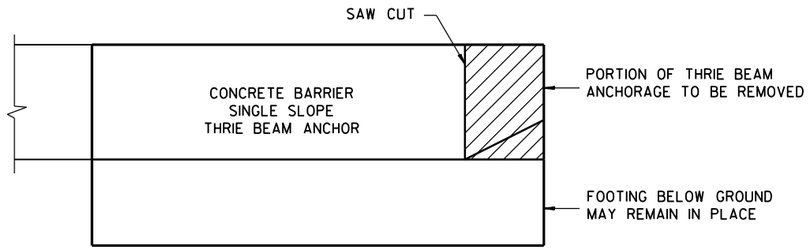
FHWA

6

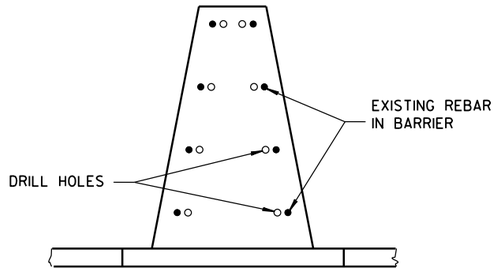
S.D.D. 14 B 32-3d

6

S.D.D. 14 B 32-3d



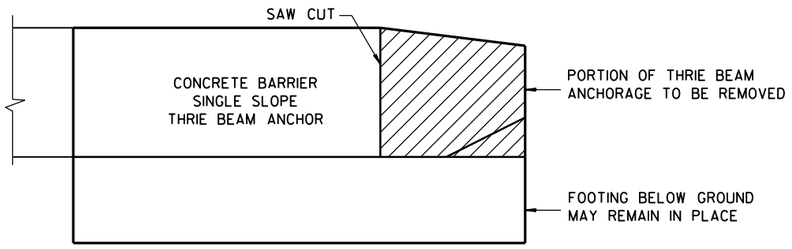
REMOVAL AREA OF
32" CONCRETE THRIE BEAM ANCHORAGE



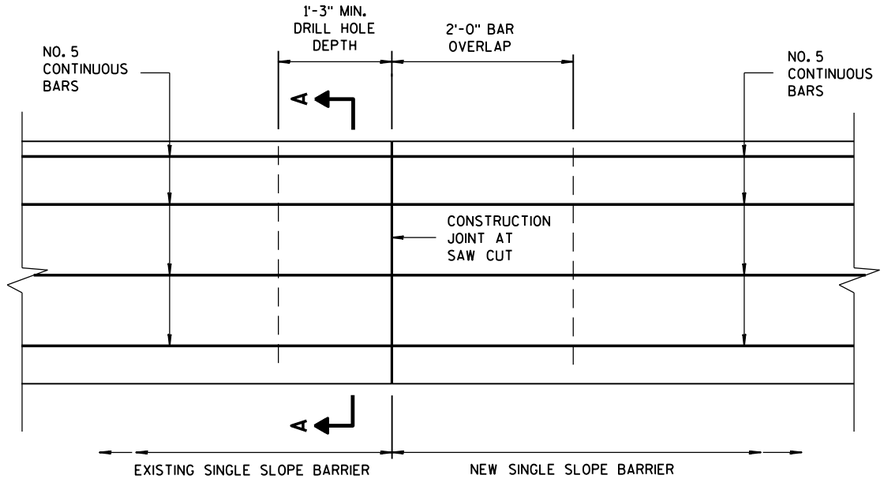
SECTION A-A

GENERAL NOTES

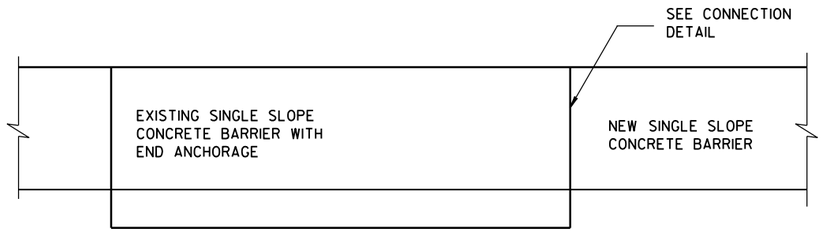
1. THE NUMBER OF DRILL HOLES IS EQUAL TO THE NUMBER OF REBAR IN BARRIER (SEE OTHER DETAILS).
2. MINIMUM DEPTH OF DRILL HOLES IS 1'-3".
3. DRILL HOLES TO BE A MINIMUM OF 4 INCHES FROM THE EDGE OF CONCRETE.
4. INSTALL EPOXY COATED NO. 5 BARS IN DRILL HOLES.
5. END ANCHORAGE MAY OR MAY NOT BE PRESENT ON EXISTING BARRIER.
6. REMOVE THRIE BEAM ANCHORAGE AS SHOWN.



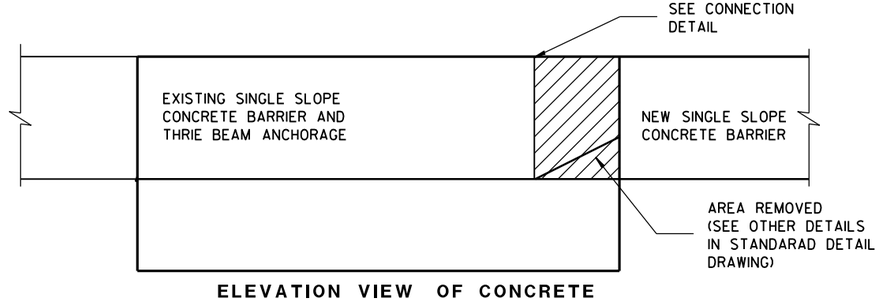
REMOVAL AREA OF CONCRETE THRIE BEAM
ANCHORAGE WITH HEIGHT GREATER THAN 32"



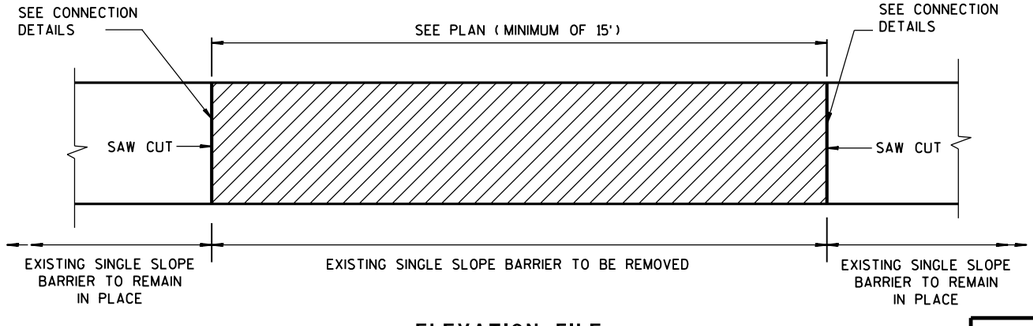
CONNECTION OF EXISTING SINGLE SLOPE CONCRETE BARRIER TO
NEW SINGLE SLOPE CONCRETE BARRIER



ELEVATION VIEW OF CONCRETE
BARRIER EXTENSION NEAR END ANCHORAGE



ELEVATION VIEW OF CONCRETE
BARRIER EXTENSION NEAR THRIE BEAM TERMINAL



ELEVATION FILE
BARRIER REMOVAL AND REPLACEMENT

CONCRETE BARRIER
SINGLE SLOPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

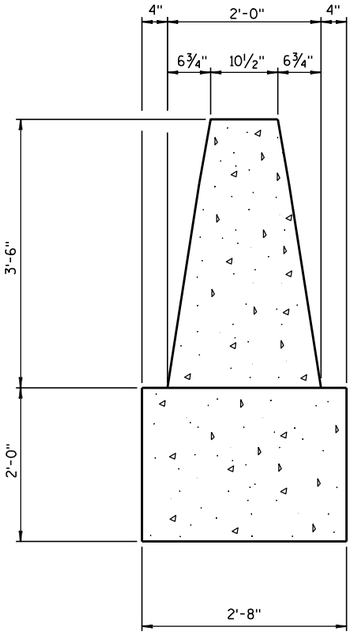
RETROFIT OR REPAIR SINGLE SLOPE CONCRETE BARRIER

6

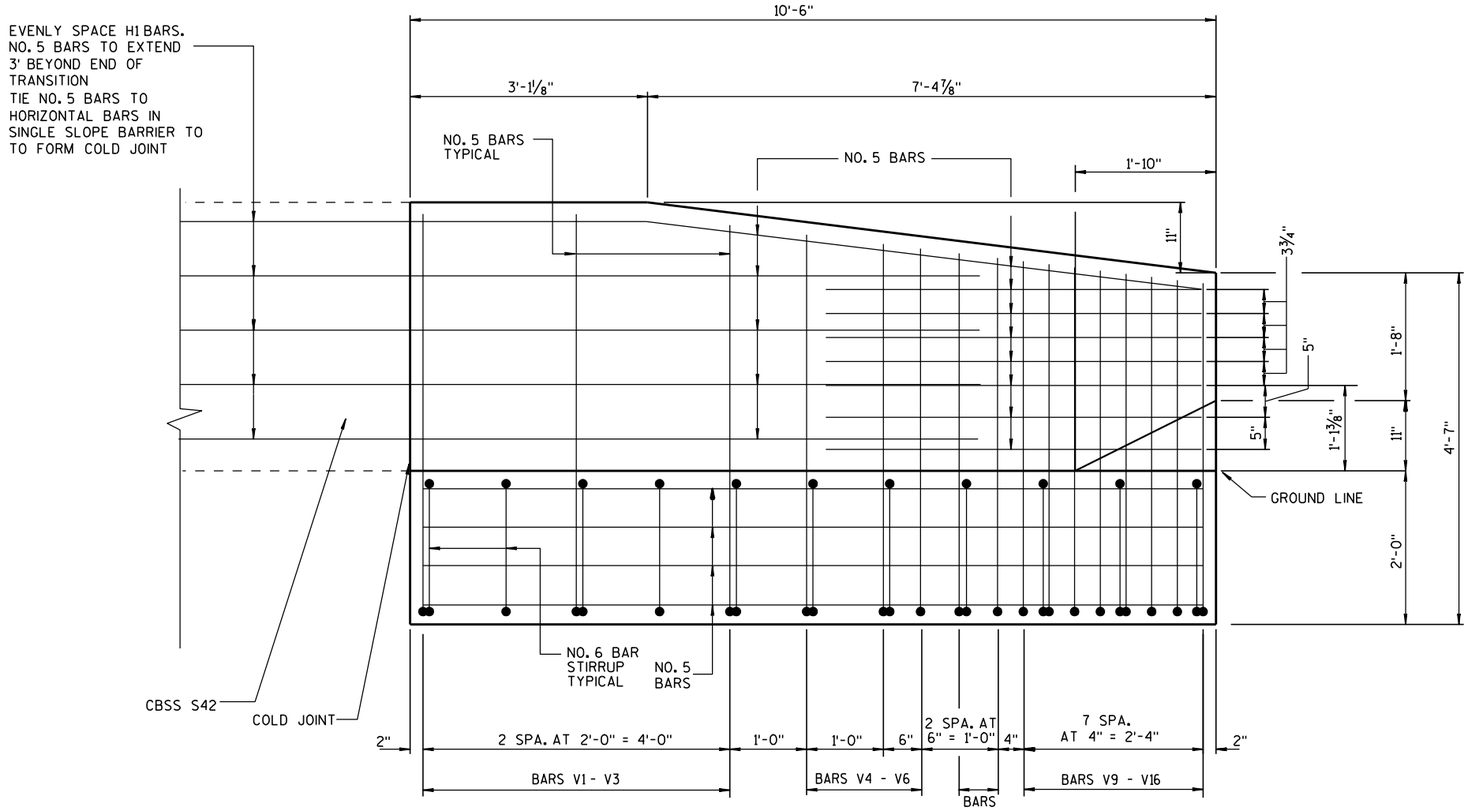
S.D.D. 14 B 32-3e

6

S.D.D. 14 B 32-3e

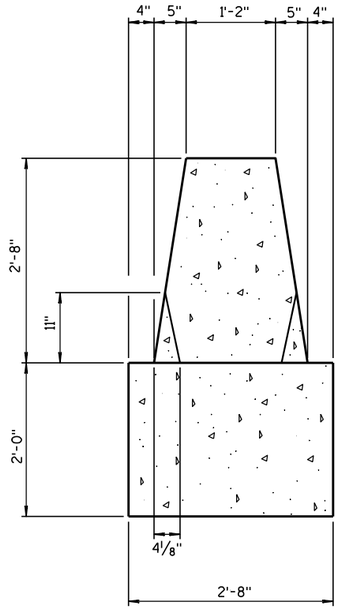


SECTION A-A

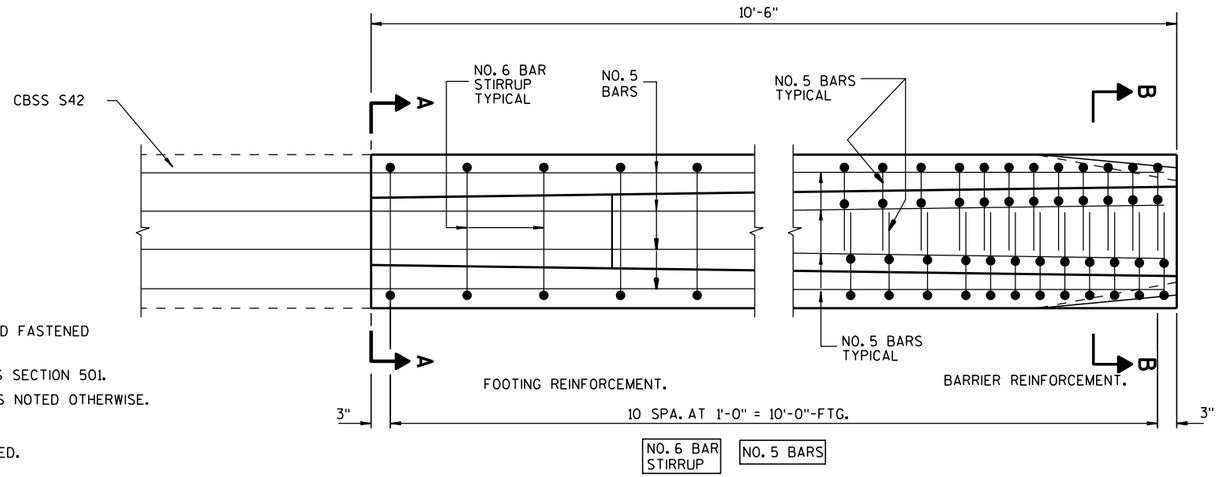


SEE SECTIONS ① THRU ⑯

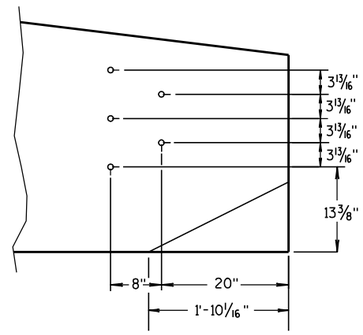
ELEVATION VIEW



SECTION B-B



PLAN VIEW



PVC PIPE LOCATIONS

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2'LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

THRIE BEAM ANCHOR INCIDENTAL TO CONCRETE BARRIER ITEM.

INSTALL SCHEDULE 40 PVC PIPE 1" DIAMETER AT LOCATIONS INDICATED.

EXTEND PVC PIPE COMPLETELY THROUGH BARRIER.

CUT ENDS OF PVC PIPE FLUSH WITH FINISHED FACE of BARRIER.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

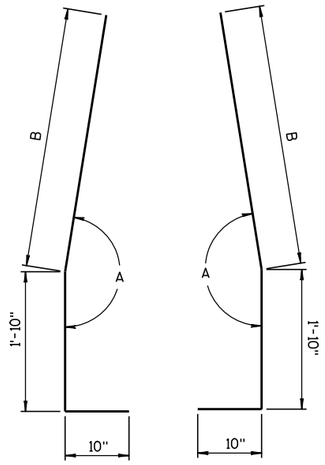
CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 33-1g

BAR CHART
SECTIONS V1 - V11

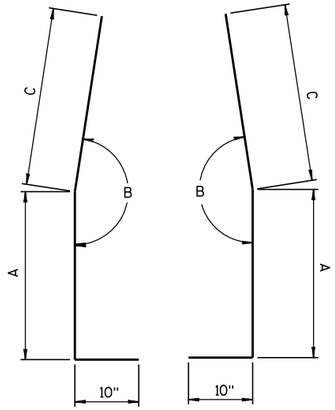
BAR	A	B
V1	170°-50'	3'-4½"
V2	171°-20'	3'-4½"
V3	171°-30'	3'-2½"
V4	171°-25'	3'-1½"
V5	171°-15'	3'-0"
V6	171°-15'	2'-11"
V7	171°-20'	2'-10½"
V8	171°-10'	2'-9½"
V9	171°-10'	2'-9"
V10	171°-05'	2'-8½"
V11	171°-10'	2'-8"



BAR BENDING DETAIL
FOR BARS V1 - V11

BAR CHART
SECTIONS V12 - V13

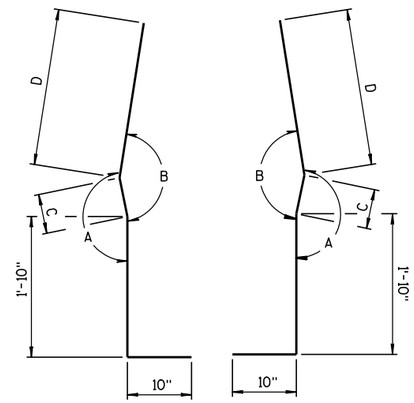
BAR	A	B	C
V12	2'-2"	171°-15'	2'-3½"
V13	2'-7"	171°-05'	1'-10"



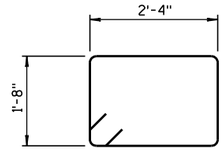
BAR BENDING DETAIL
FOR BARS V12 - V13

BAR CHART
SECTIONS V14 - V16

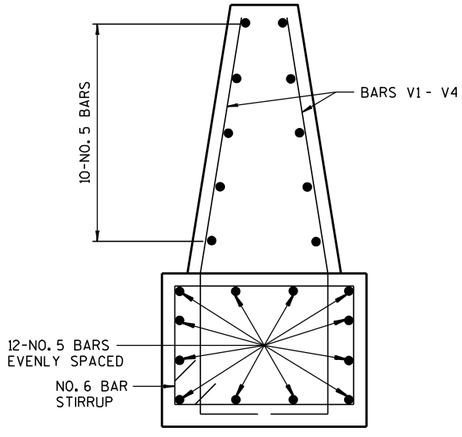
BAR	A	B	C	D
V14	168°-15'	159°-15'	6"	2'-0"
V15	169°-20'	161°-00'	8"	1'-10"
V16	168°-40'	160°-10'	10"	1'-8"



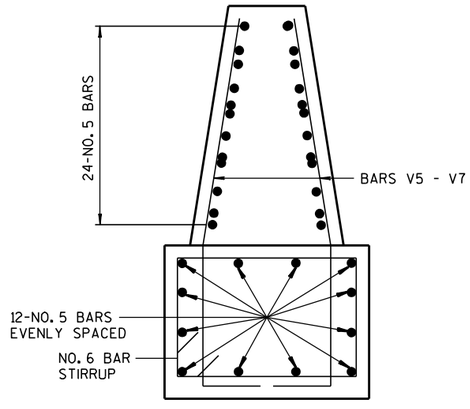
BAR BENDING DETAIL
FOR BARS V14 - V16



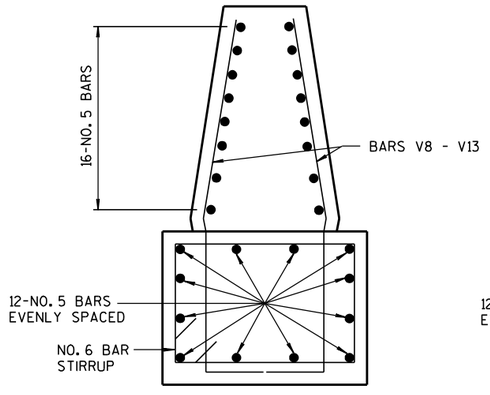
STIRRUP BAR
BENDING DETAIL



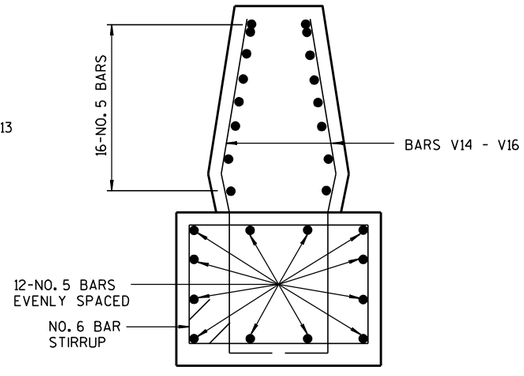
BAR DETAIL
SECTIONS V1 - V4



BAR DETAIL
SECTIONS V5 - V7



BAR DETAIL
SECTIONS V8 - V13



BAR DETAIL
SECTIONS V14 - V16

CONCRETE BARRIER
SINGLE SLOPE 42"
THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6-3-2010 DATE
/S/ Jerry H. Z---
ROADWAY STANDARDS ENGINEER
556 ENT
FHWA

GENERAL NOTES

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

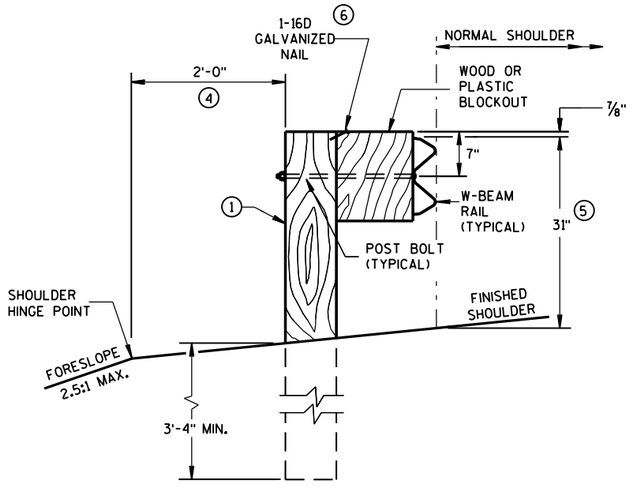
2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

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

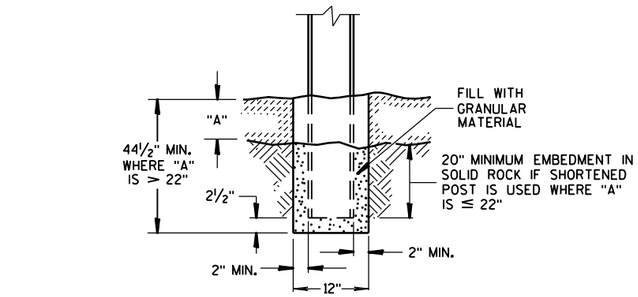
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

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



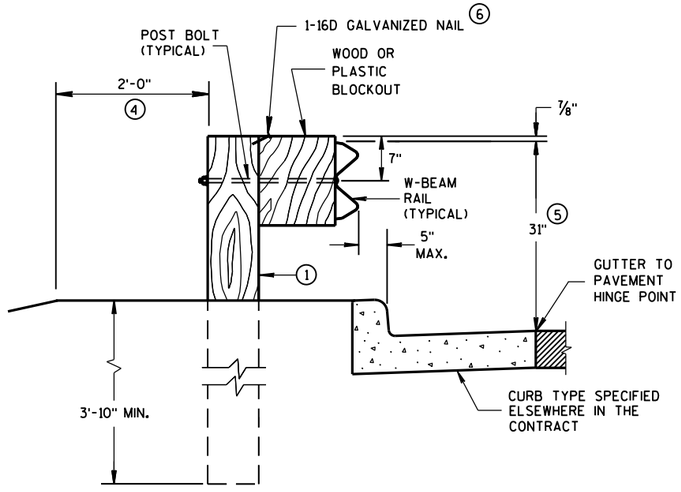
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



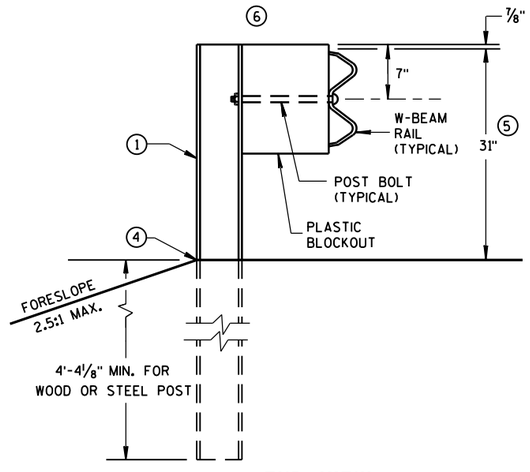
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



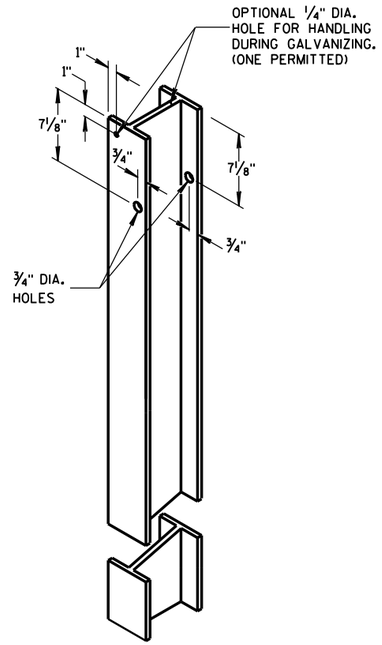
END VIEW

LOCATED ALONG A CURBED ROADWAY

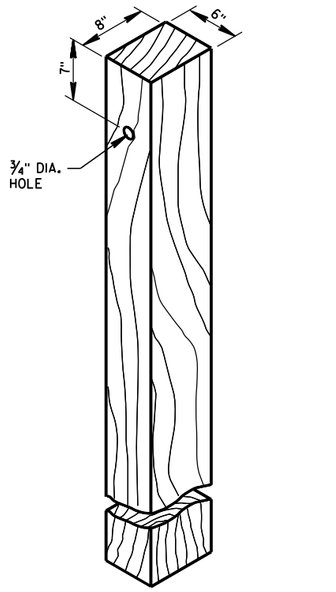


END VIEW

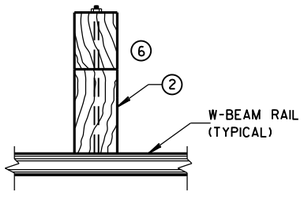
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



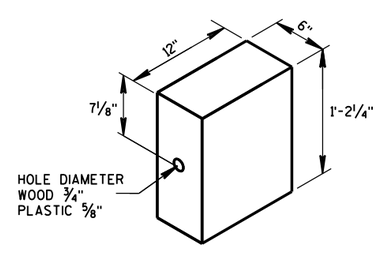
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



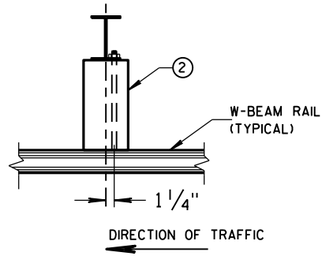
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

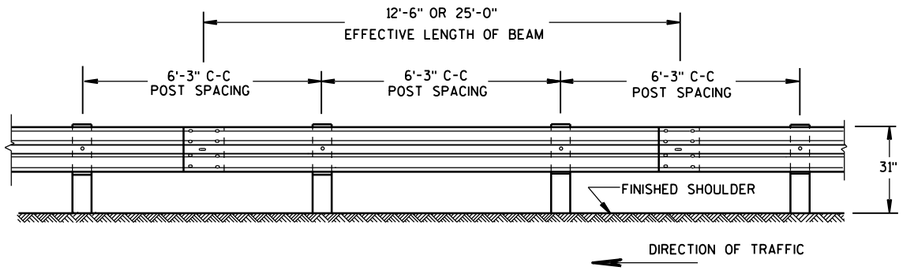


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

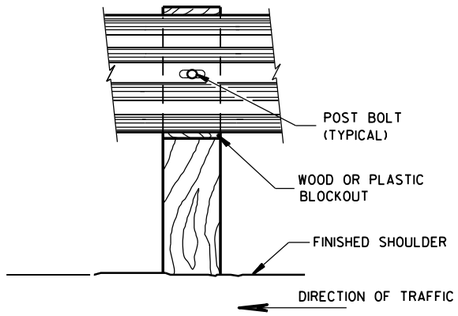
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 42-3a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW 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.

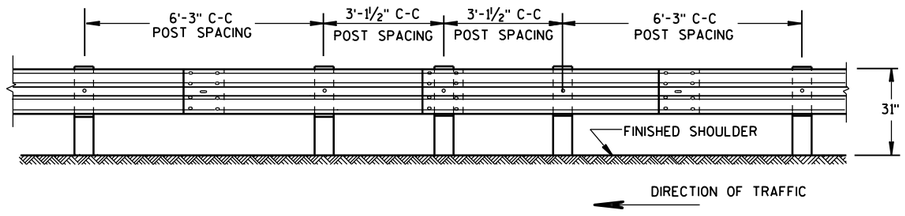
(9) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

(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.

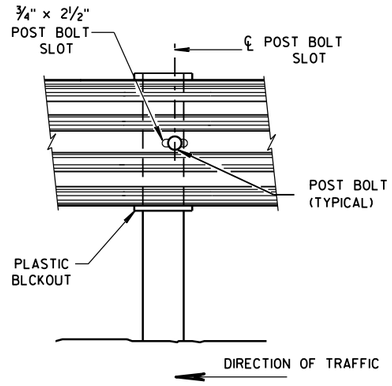
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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.

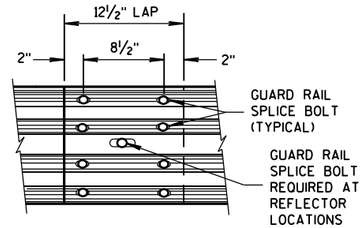


FRONT VIEW

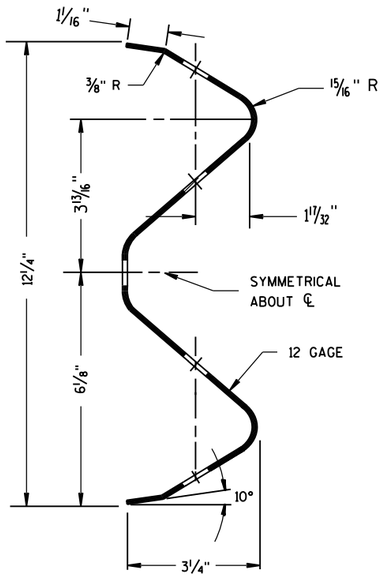
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



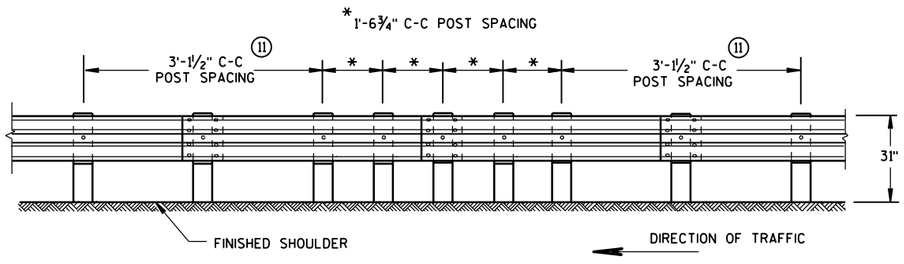
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

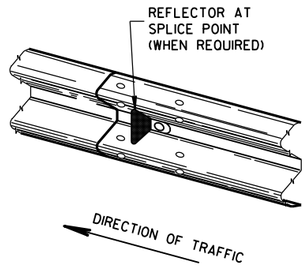


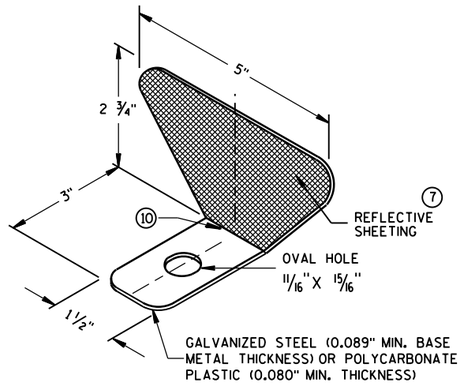
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (7)

REFLECTOR SPACING (8)

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

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

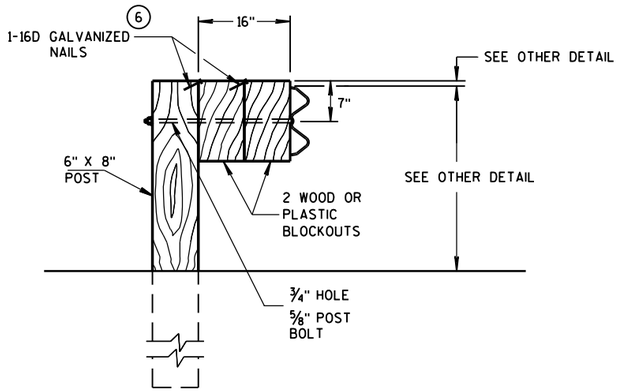
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO 558

6

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

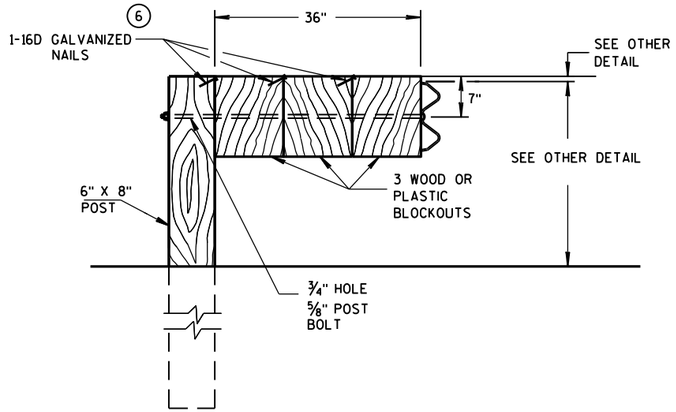
6

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.

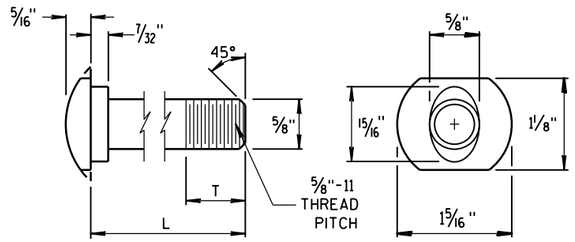


DETAIL FOR 36" BLOCKOUT DEPTH

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.

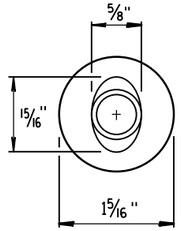
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

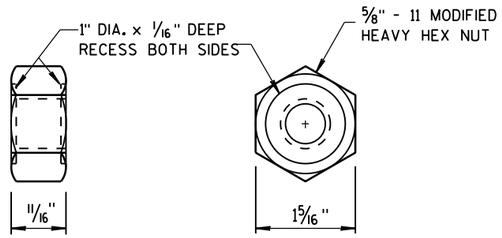


POST BOLT TABLE

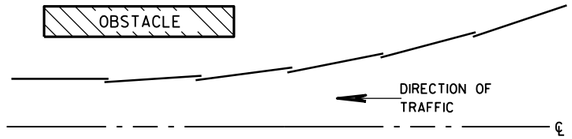
L	T (MIN.)
1¼"	1⅛"
2"	1¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

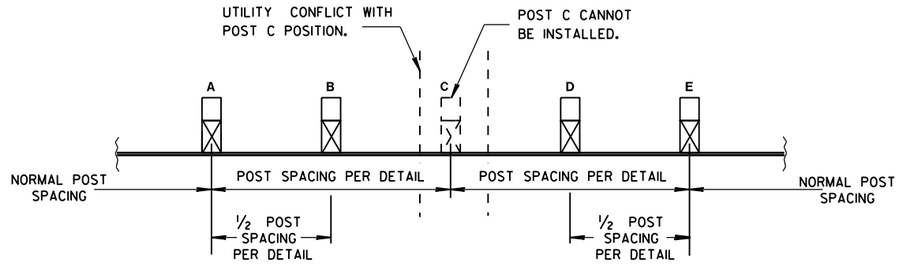


POST BOLT AND RECESS NUT

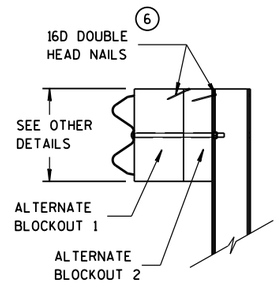


PLAN VIEW

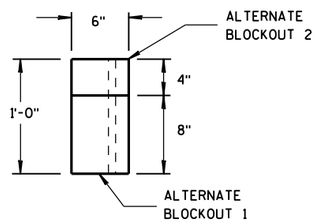
BEAM LAPPING DETAIL



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
559
FHWA

6

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

6

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

GENERAL NOTES

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

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

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

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

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

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

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

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

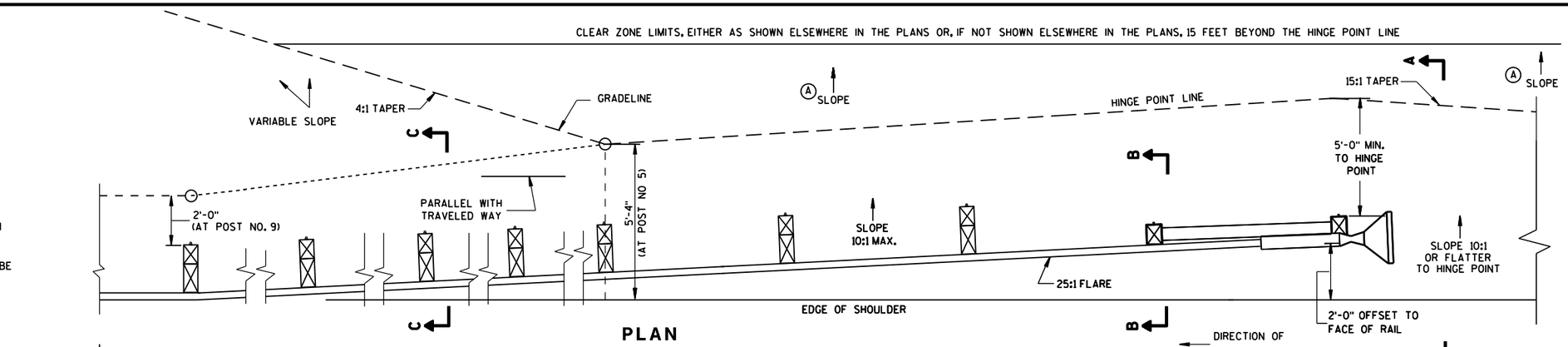
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

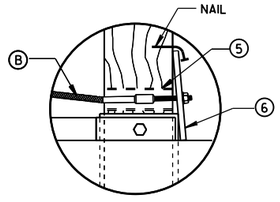
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

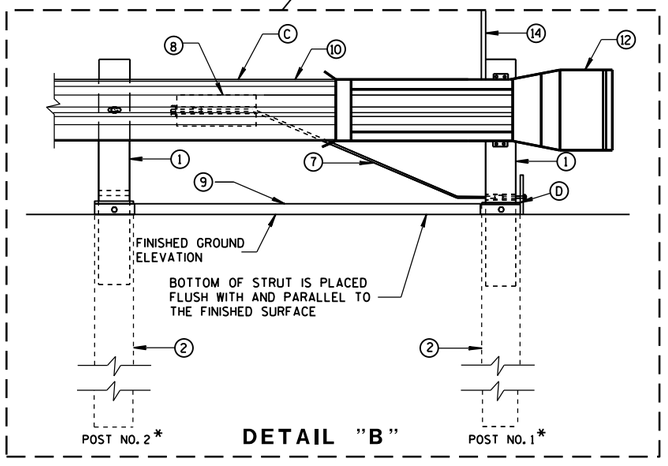
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

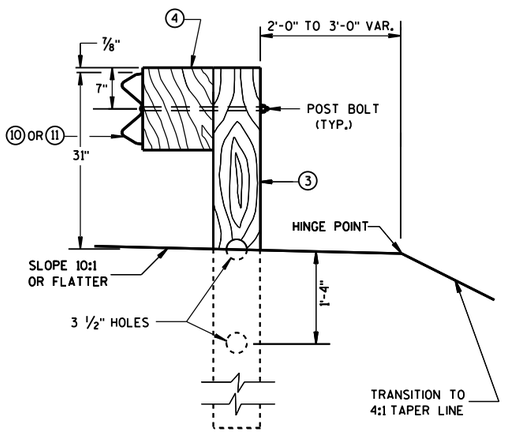
THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.



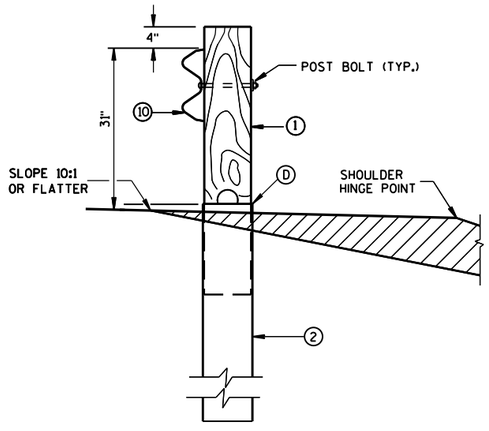
ELEVATION



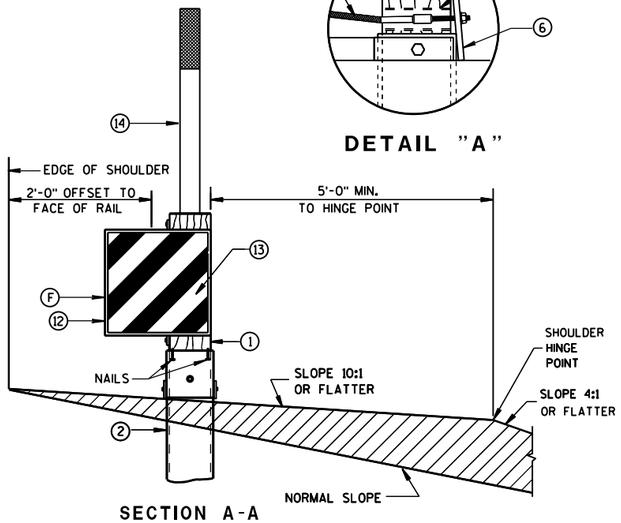




SECTION C-C
TYPICAL AT POST NOS. 3-9



SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

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

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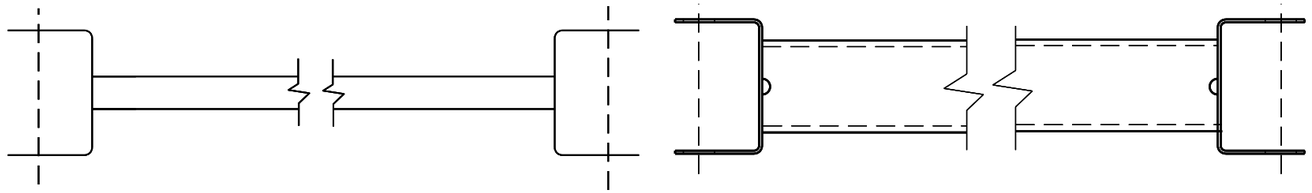
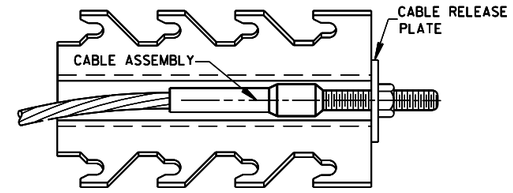
S.D.D. 14 B 44-2a



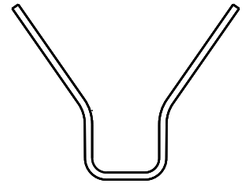
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

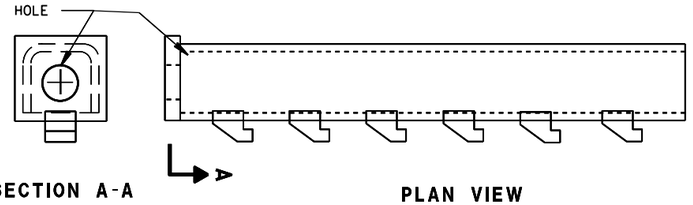
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR 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)



FRONT VIEW



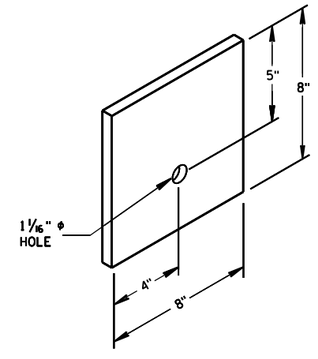
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)



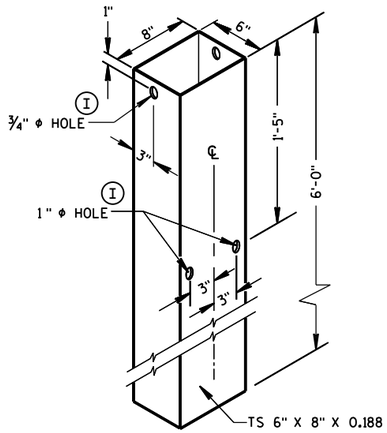
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

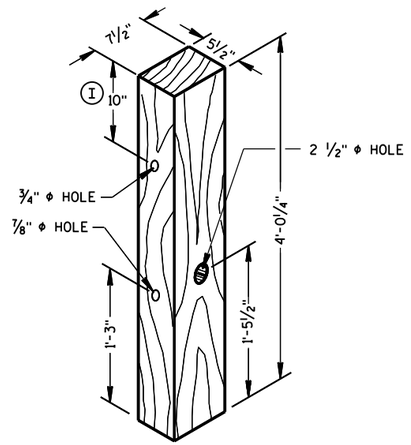
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

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

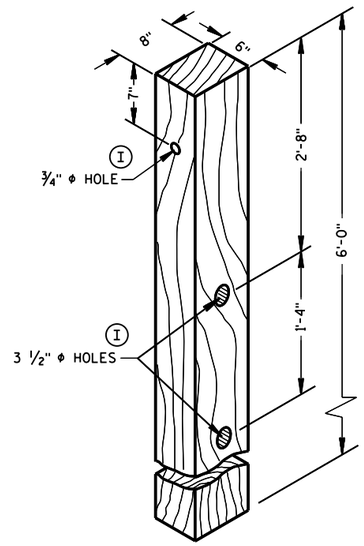


FOUNDATION TUBE (2)



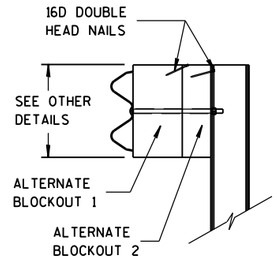
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

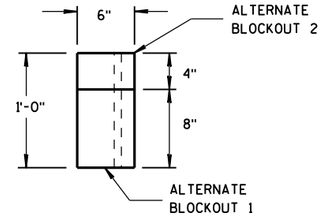


POSTS NUMBER 3-9

WOOD CRT POST (3)

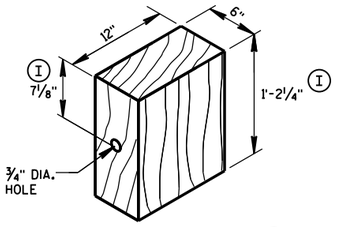


SIDE VIEW



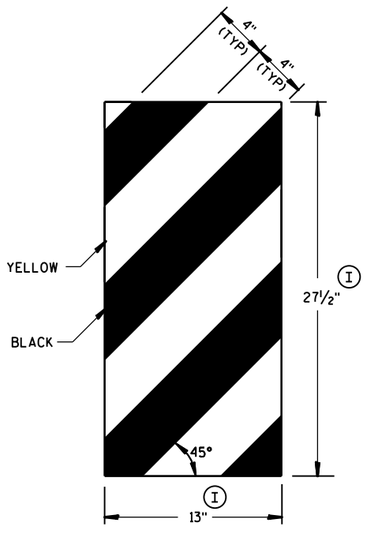
TOP VIEW

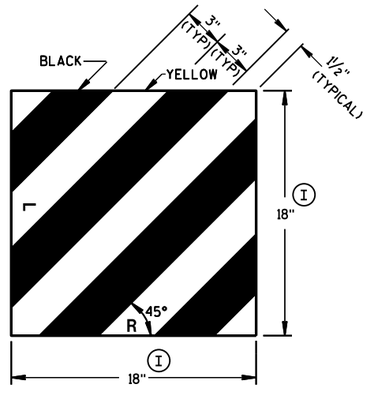
ALTERNATE WOOD BLOCKOUT DETAIL



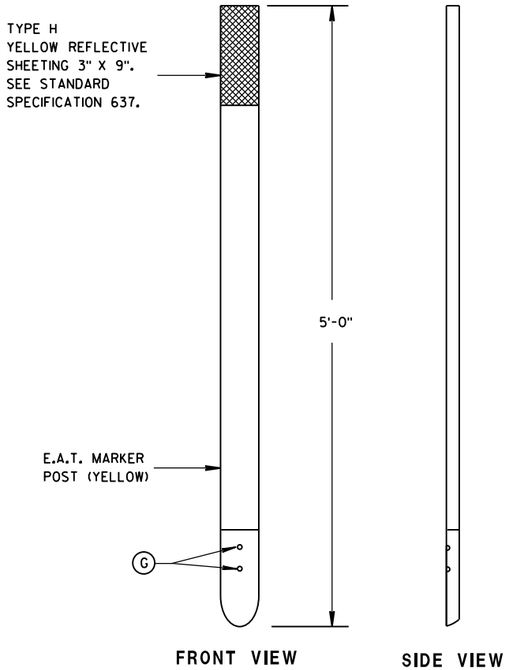
WOOD BLOCKOUT (4)

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





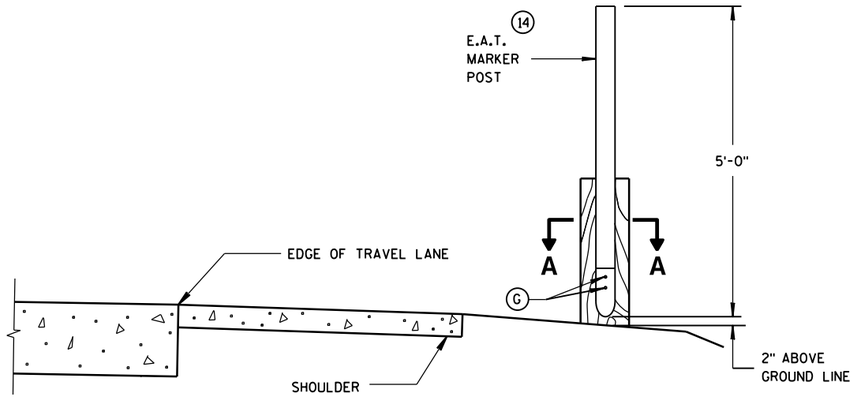
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

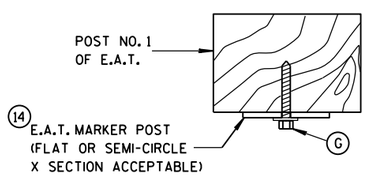
SIDE VIEW

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

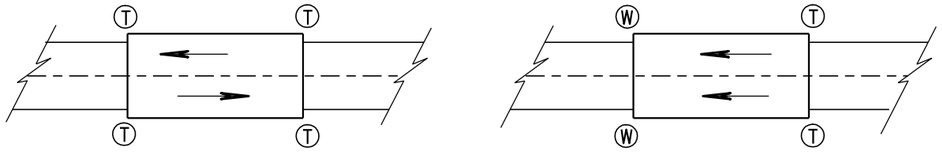
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

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



TWO WAY TRAFFIC

ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

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

GENERAL NOTES

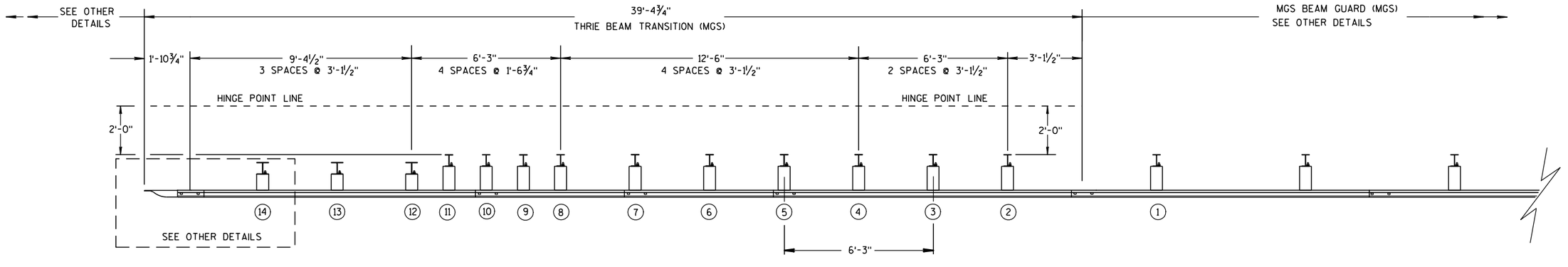
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

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

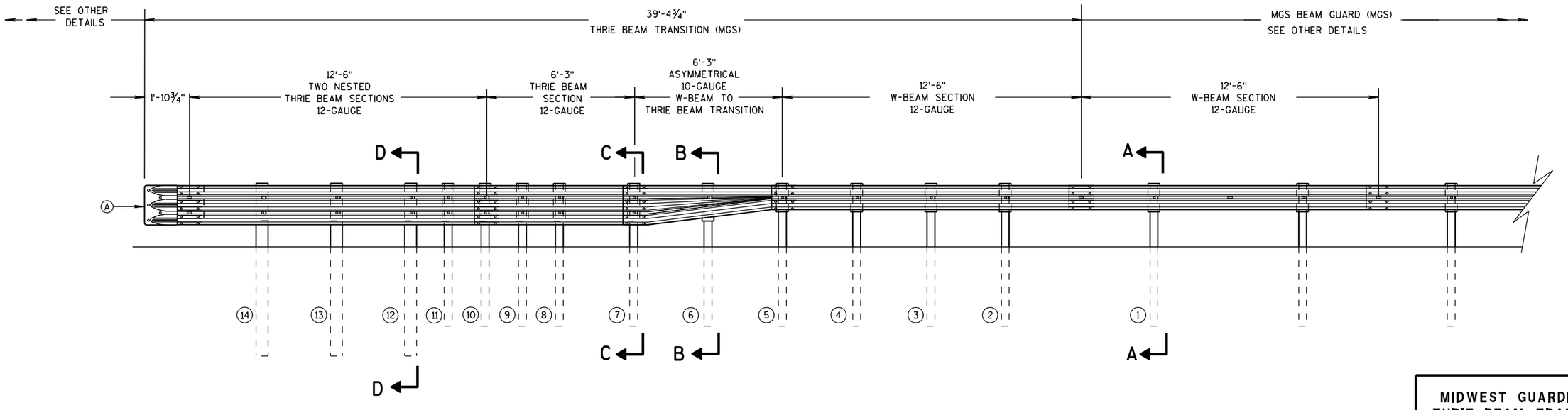
TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

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



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

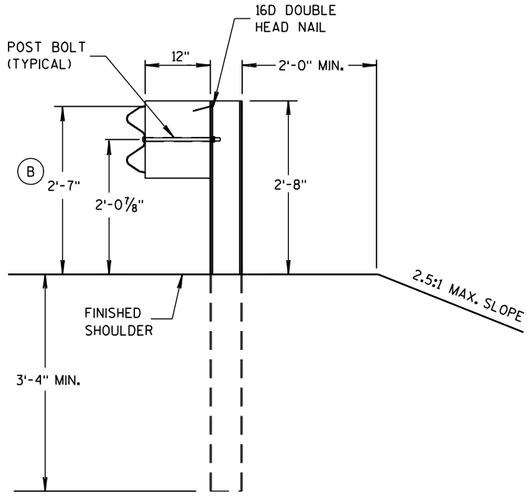
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 45-3a

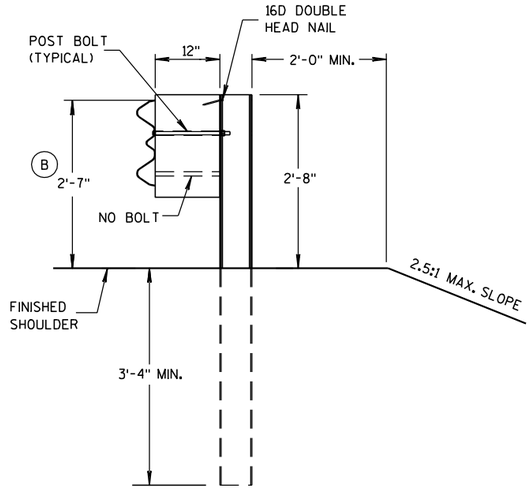
GENERAL NOTES

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



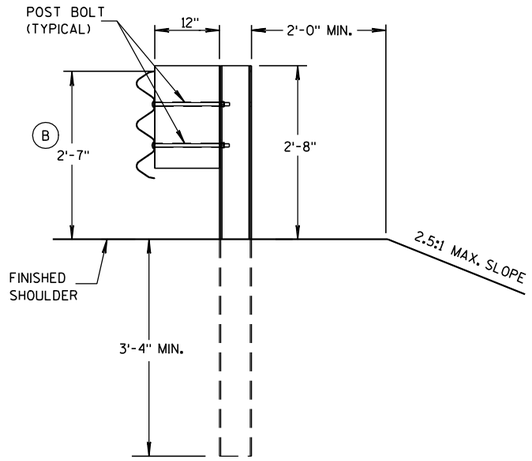
SECTION A-A

POSTS 1-5



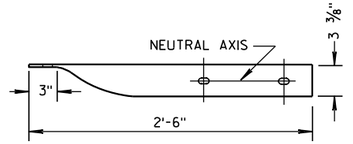
SECTION B-B

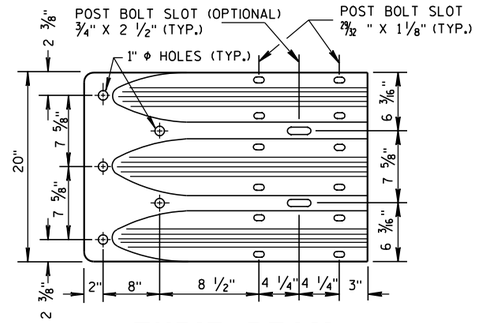
POST 6



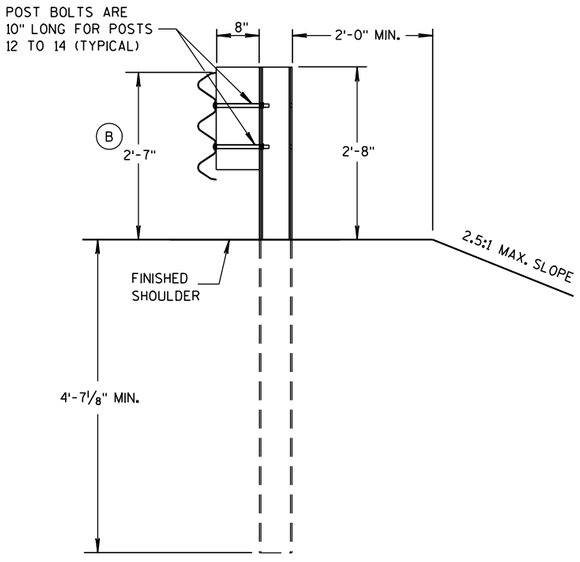
SECTION C-C

POSTS 7-11





THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-14

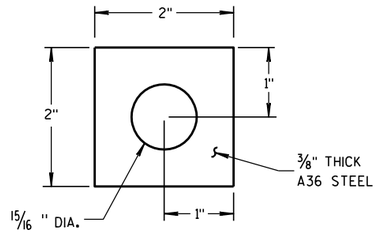
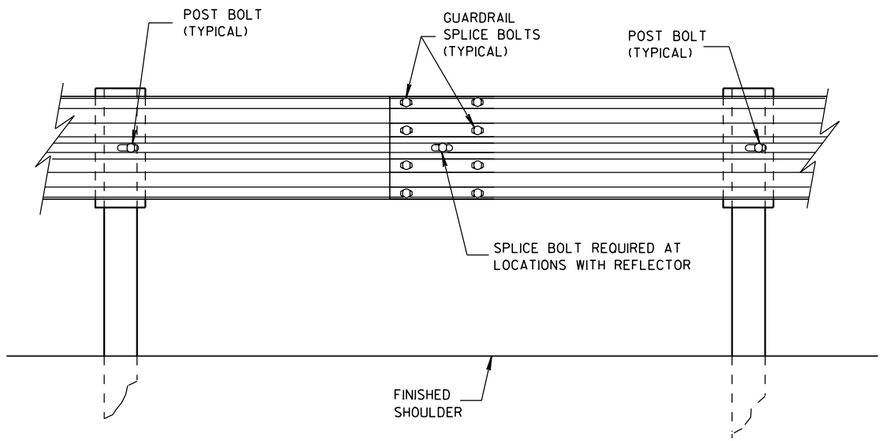
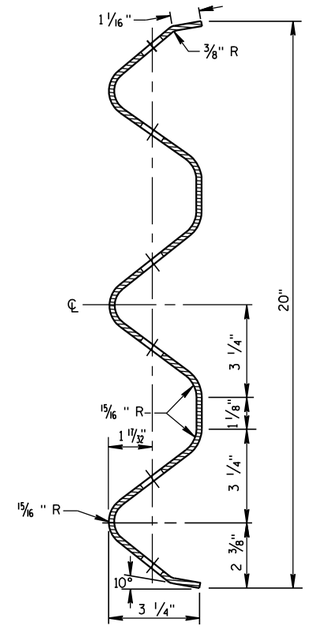


PLATE WASHER DETAIL



SPLICE DETAIL



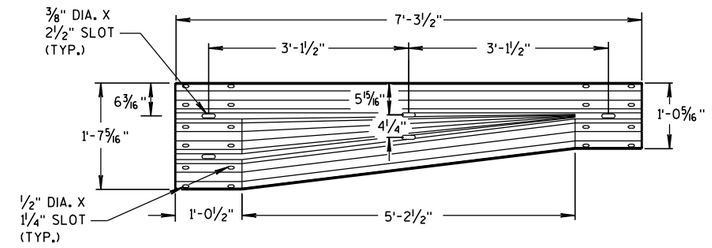
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

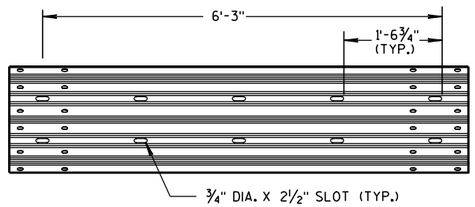
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

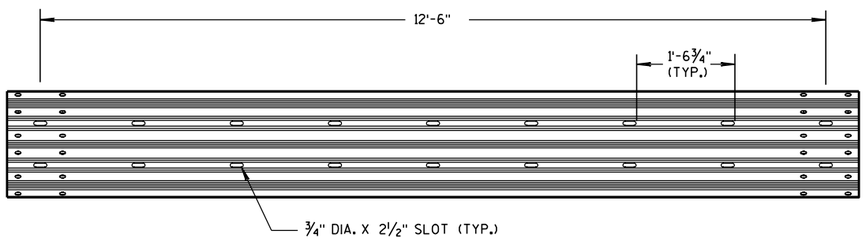
S.D.D. 14 B 45-3b



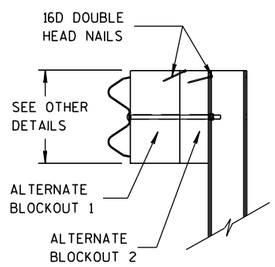
W-BEAM TO THRIE BEAM TRANSITION SECTION



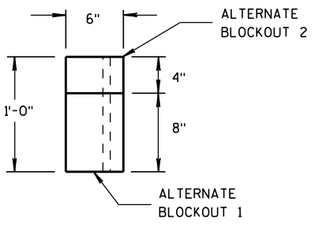
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

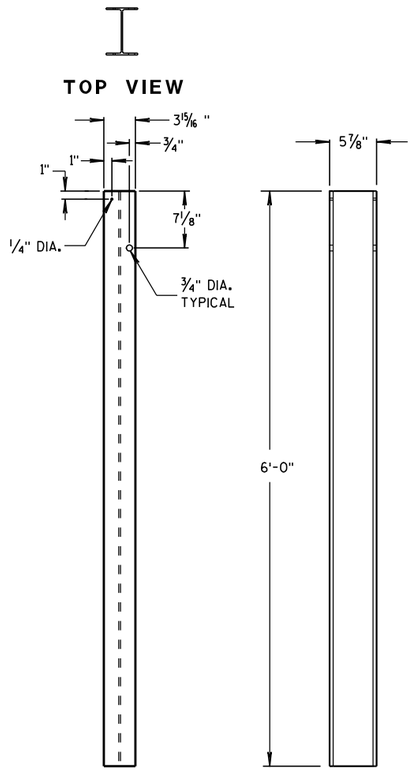


SIDE VIEW

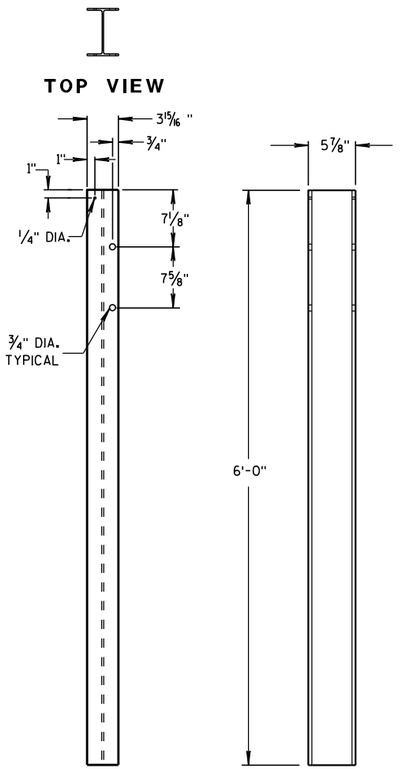


TOP VIEW

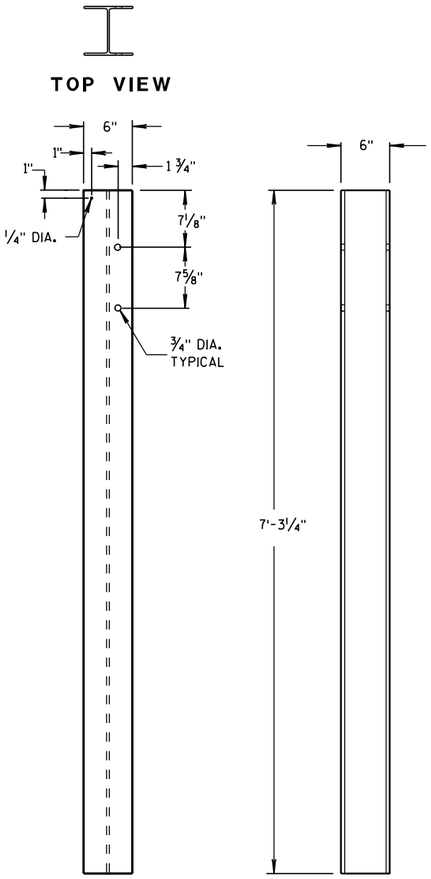
ALTERNATE WOOD BLOCKOUT DETAIL



STEEL POSTS 1-5

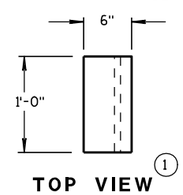


STEEL POSTS 6-11

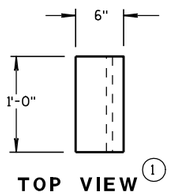


STEEL POSTS 12-14

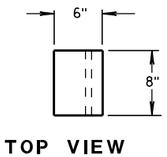
1 WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



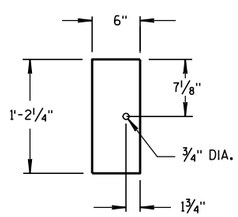
TOP VIEW (1)



TOP VIEW (1)

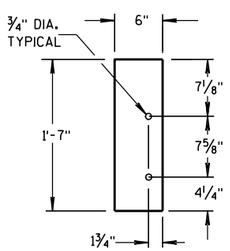


TOP VIEW



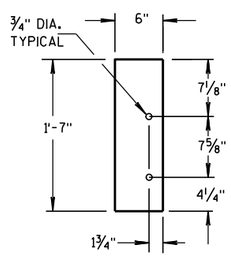
FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-11



FRONT VIEW

BLOCKOUT POSTS 12-14

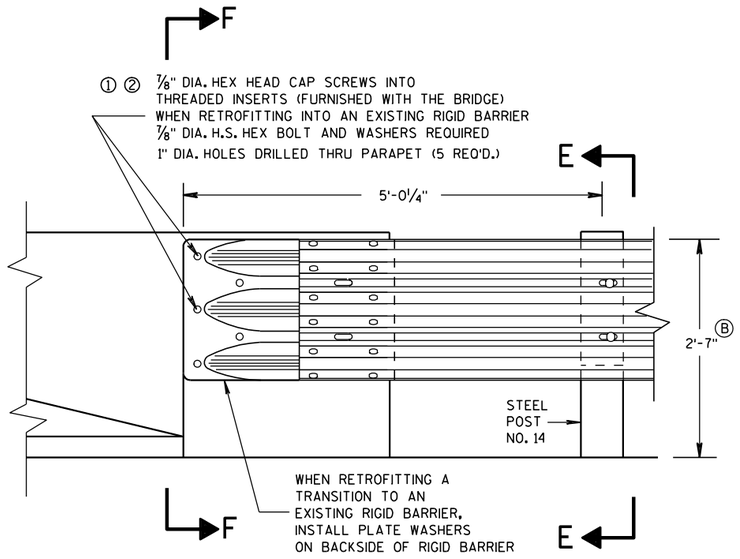
STEEL POST SIZES

POST NUMBER	SECTION TYPE	LENGTH
1	W6x9	72"
2	W6x9	72"
3	W6x9	72"
4	W6x9	72"
5	W6x9	72"
6	W6x9	72"
7	W6x9	72"
8	W6x9	72"
9	W6x9	72"
10	W6x9	72"
11	W6x9	72"
12	W6x15	87 1/8"
13	W6x15	87 1/8"
14	W6x15	87 1/8"

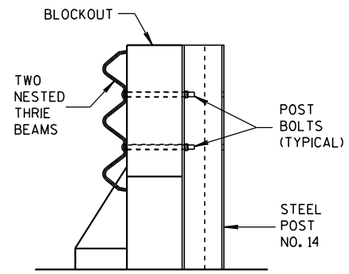
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 45-3c



FRONT VIEW



SECTION E-E

GENERAL NOTES

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

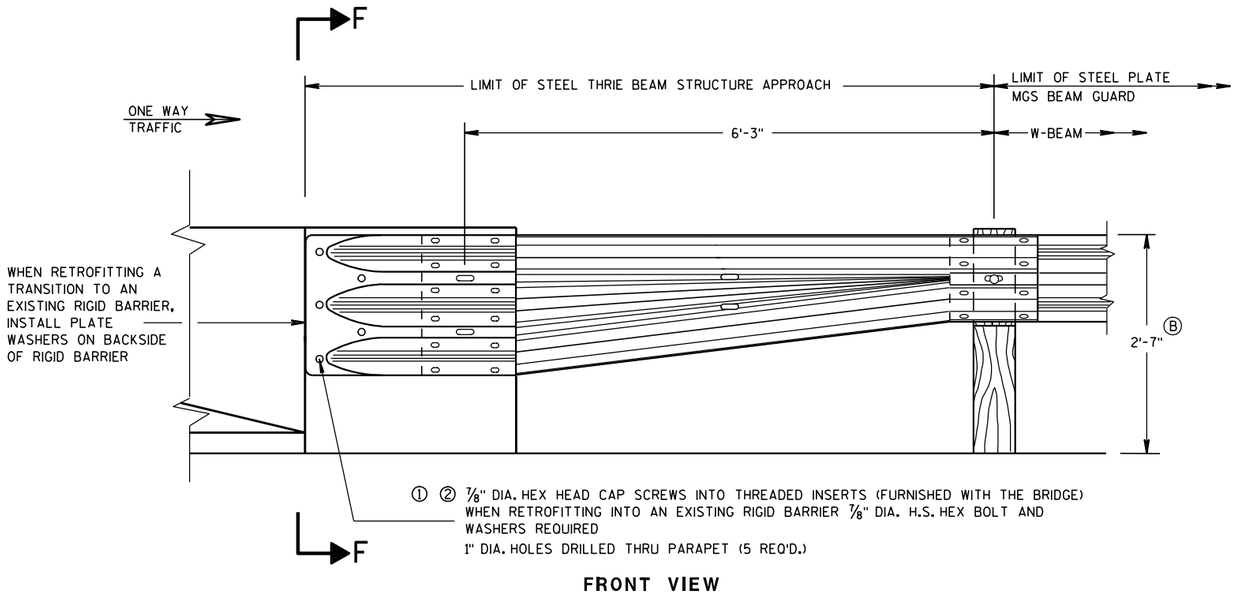
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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

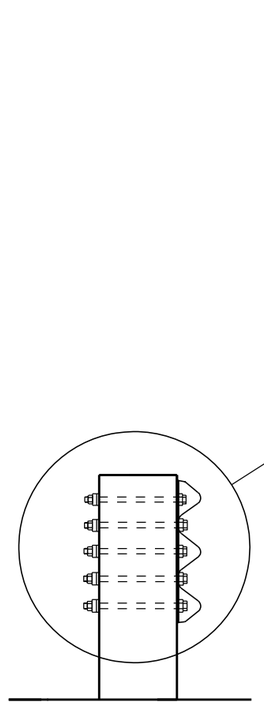
③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

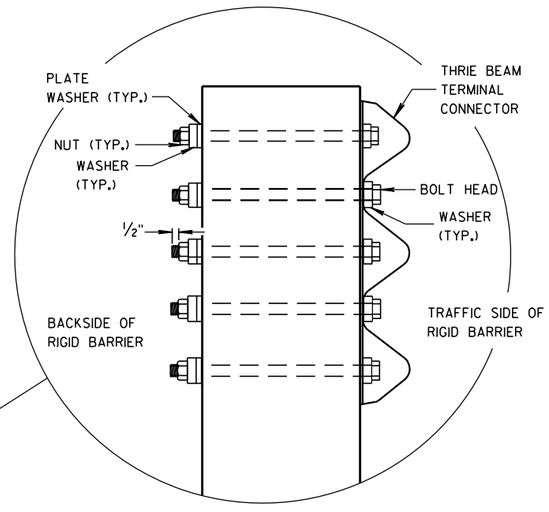
THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



FRONT VIEW



SECTION F-F



W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

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

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

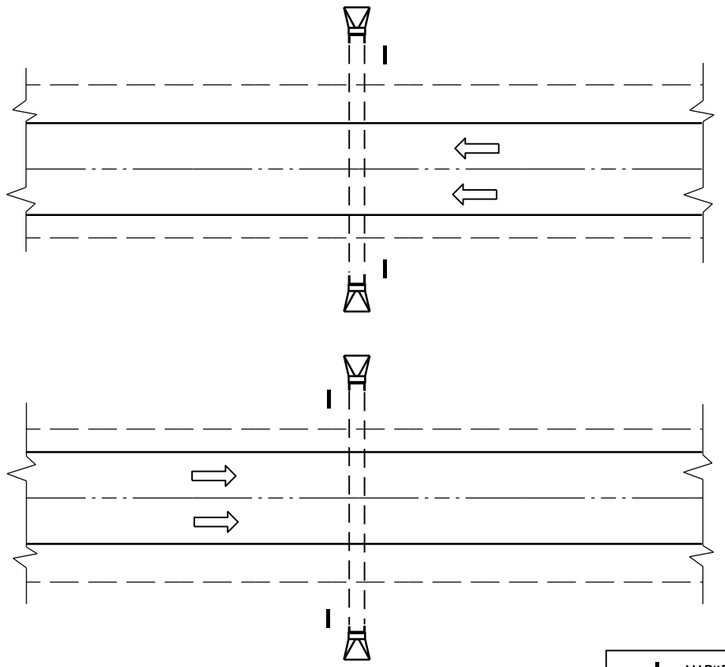
8/31/2012 — DATE

/S/ Jerry H. [illegible] — ROADWAY STANDARDS [illegible] ENGINEER

FHWA

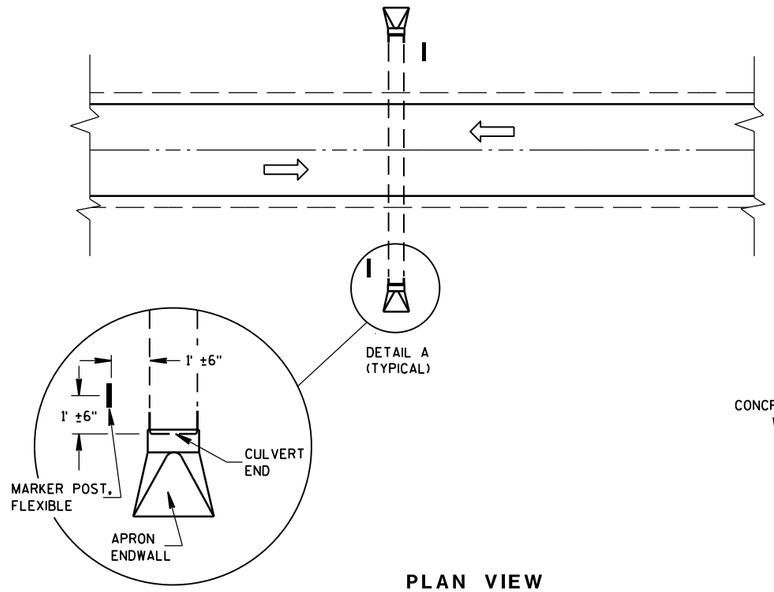
6

S.D.D. 14 B 45-3d



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

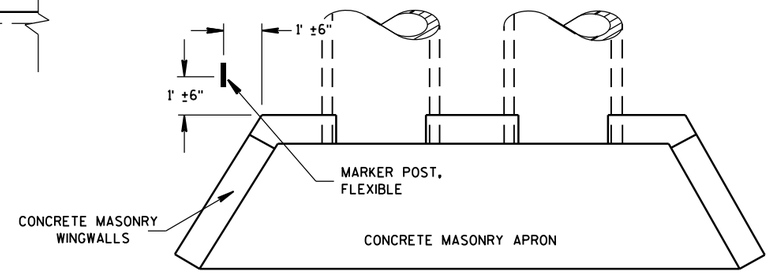
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

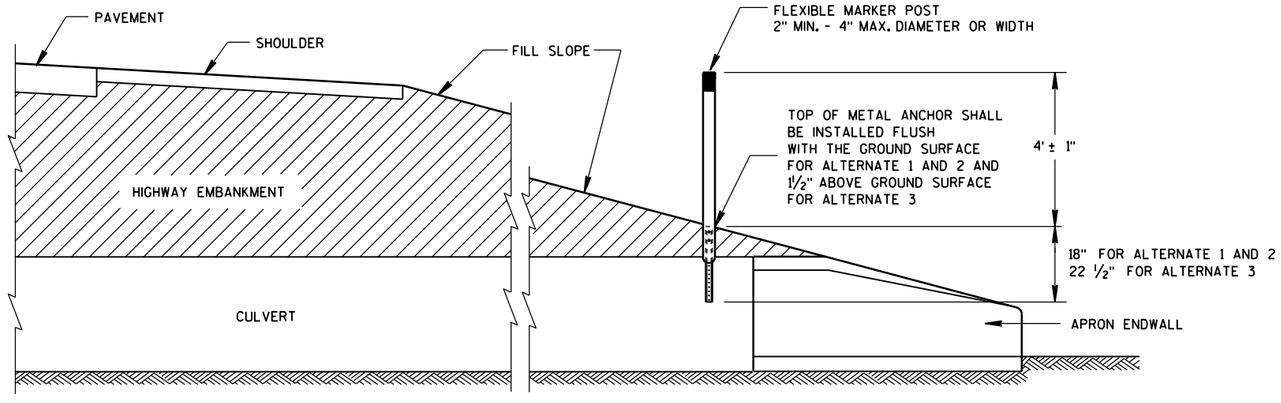
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

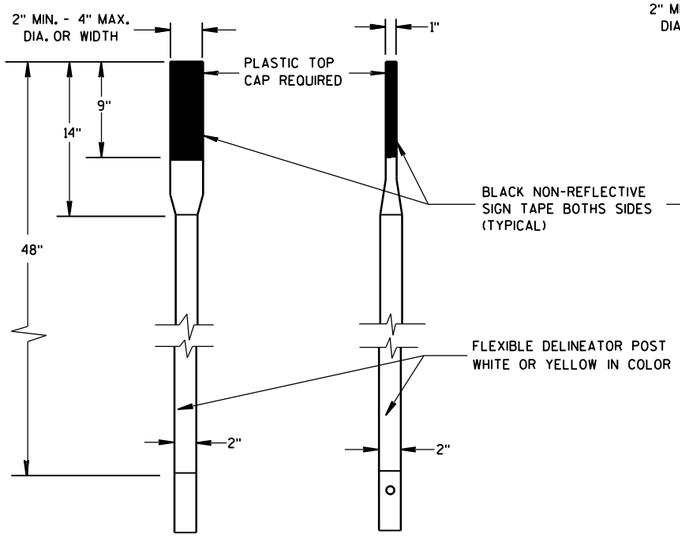
FLEXIBLE MARKER POST

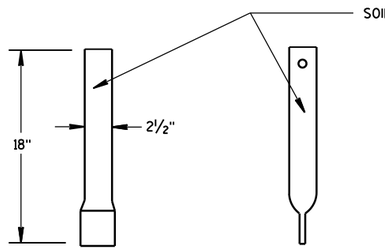
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

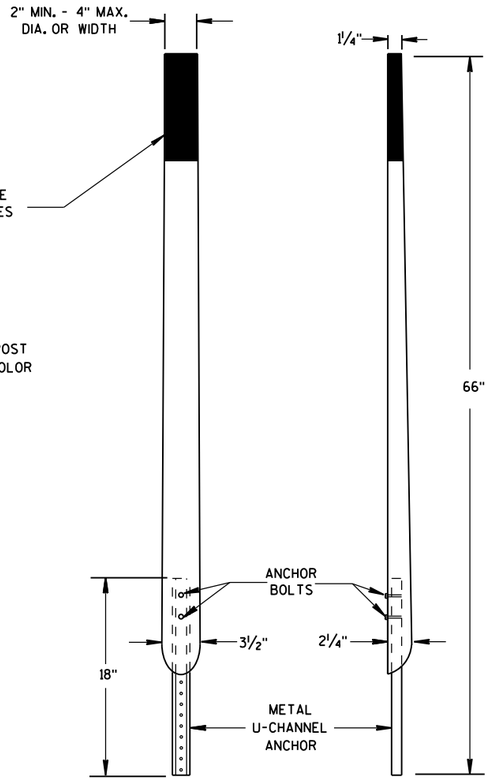
S.D.D. 15 A 3-2a





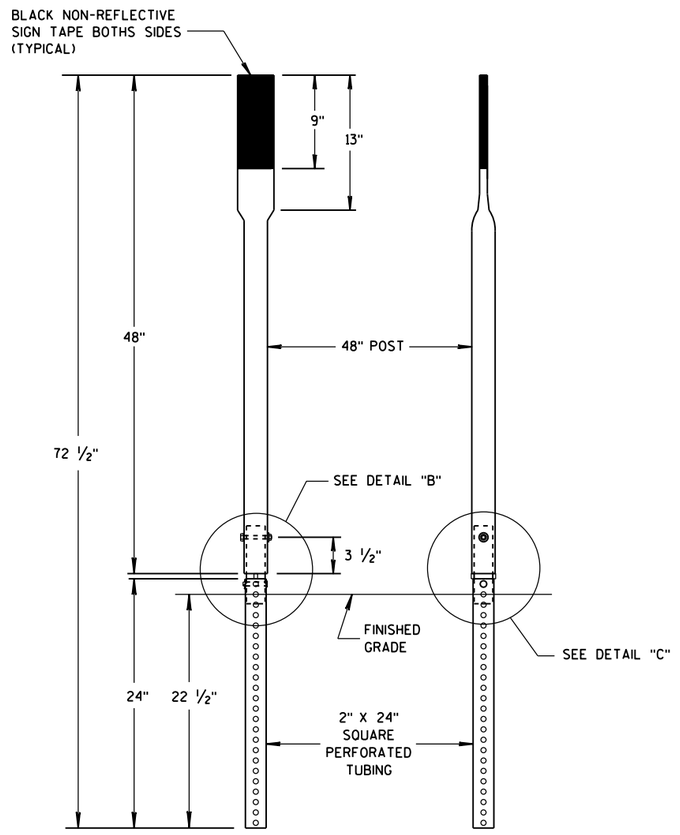
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

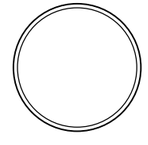
ALTERNATE 2



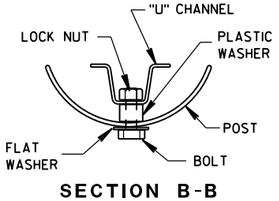
FRONT VIEW SIDE VIEW

ALTERNATE 3

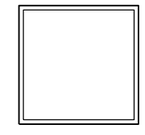
FLEXIBLE MARKER POSTS



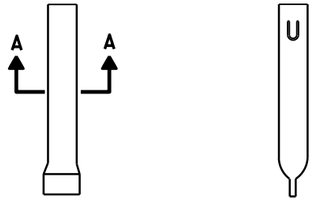
SECTION A-A



SECTION B-B

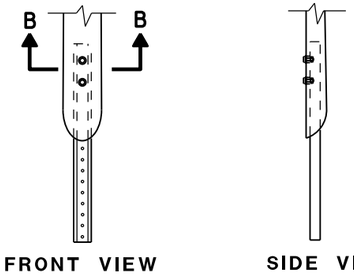


SECTION C-C



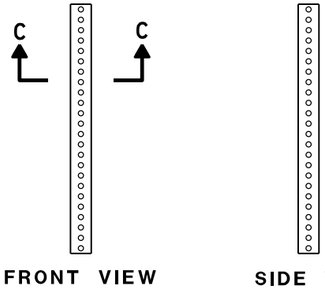
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

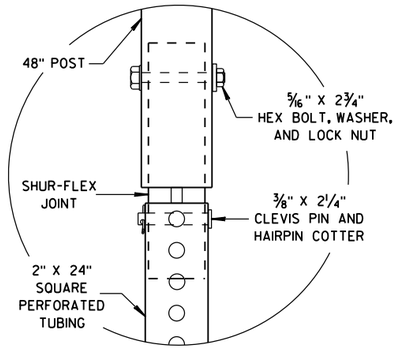
ALTERNATE 2



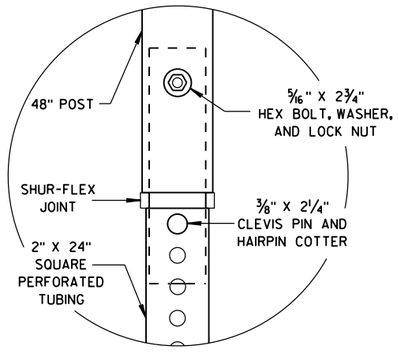
FRONT VIEW SIDE VIEW

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

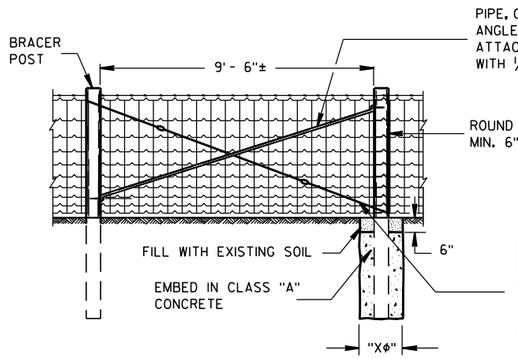
S.D.D. 15 A 3-2b

6

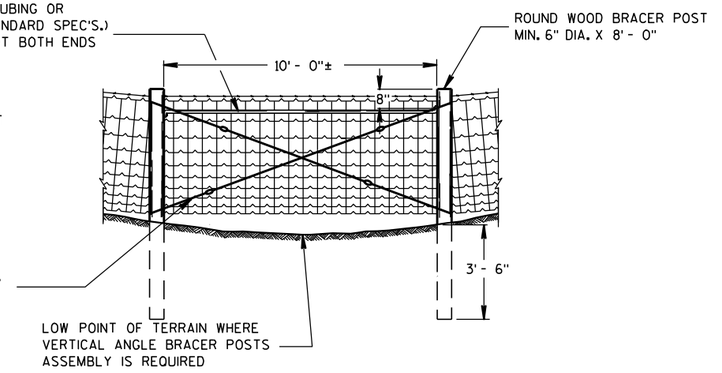
S.D.D. 15 A 3-2b

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

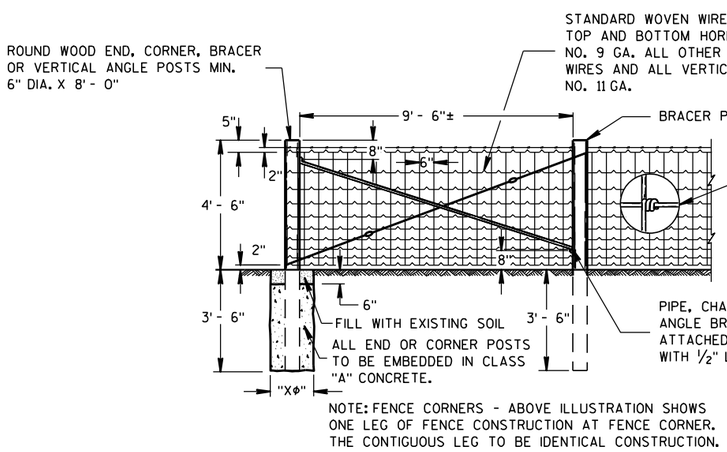
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

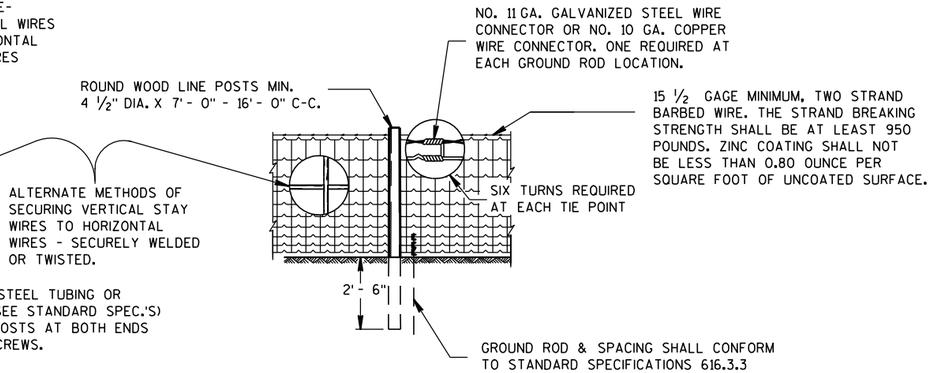
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



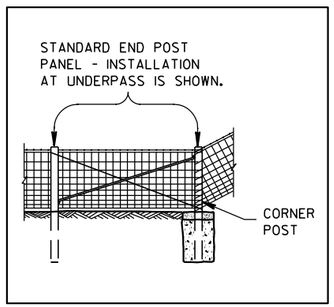
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

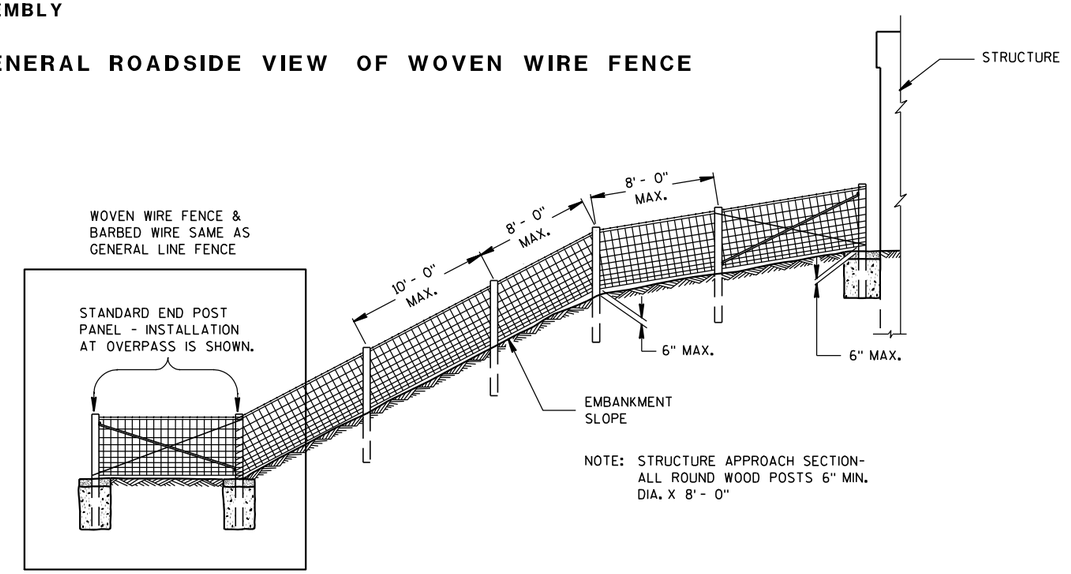


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

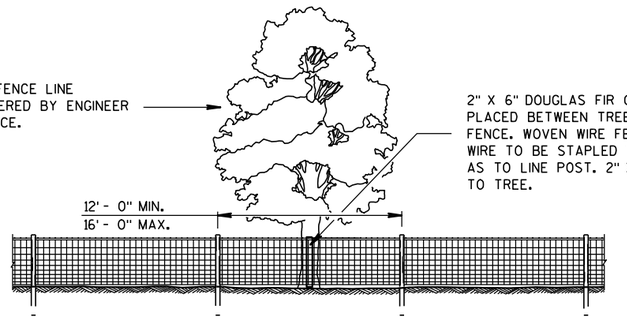
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

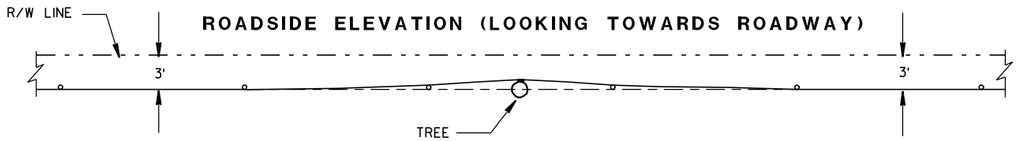
S.D.D. 15 B 1-8a

NOTE: TREE IN NORMAL FENCE LINE SPECIFICALLY ORDERED BY ENGINEER TO REMAIN IN PLACE.

2" X 6" DOUGLAS FIR OR SO. YELLOW PINE PLACED BETWEEN TREE AND WOVEN WIRE FENCE. WOVEN WIRE FENCE AND BARBED WIRE TO BE STAPLED TO 2" X 6" LIKE AS TO LINE POST. 2" X 6" NOT FASTENED TO TREE.

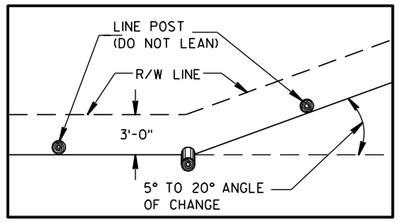


ROADSIDE ELEVATION (LOOKING TOWARDS ROADWAY)

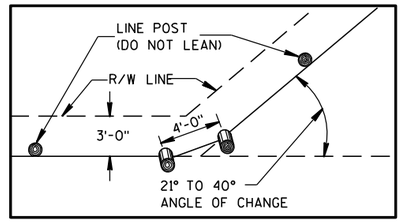


PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



PLAN VIEW
SINGLE POST CORNER

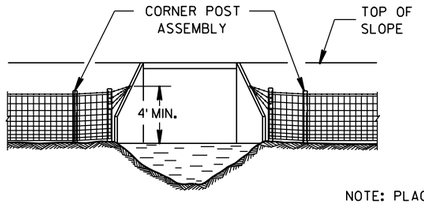


PLAN VIEW
DOUBLE POST CORNER

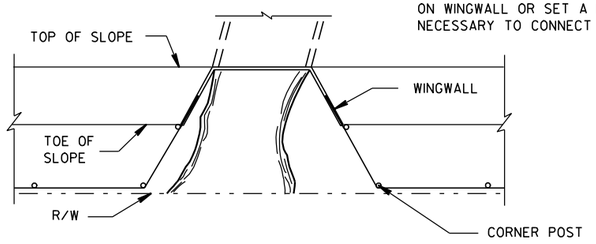
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

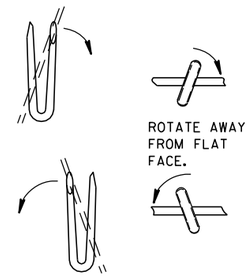
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



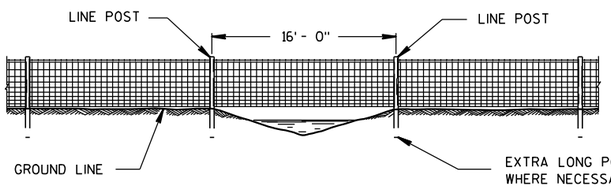
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

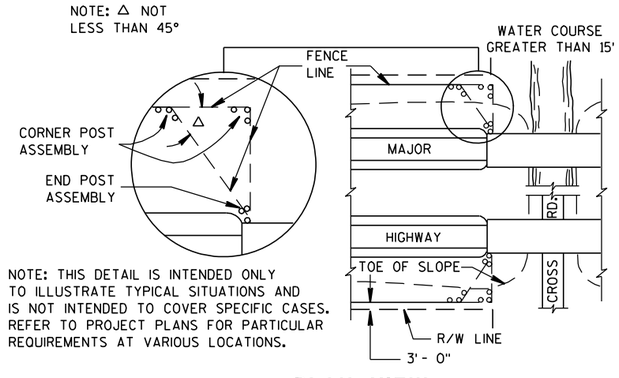


LINE POST



FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH

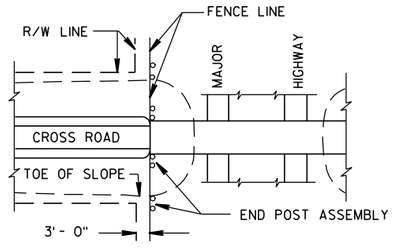
NOTE: △ NOT LESS THAN 45°



NOTE: THIS DETAIL IS INTENDED ONLY TO ILLUSTRATE TYPICAL SITUATIONS AND IS NOT INTENDED TO COVER SPECIFIC CASES. REFER TO PROJECT PLANS FOR PARTICULAR REQUIREMENTS AT VARIOUS LOCATIONS.

PLAN VIEW

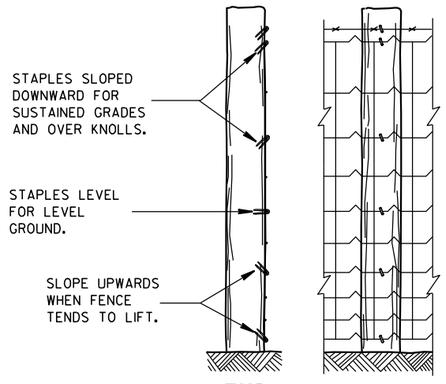
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW

MAJOR HIGHWAY UNDERPASS

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

FENCE MOUNTING DETAIL

FENCE LOCATION AT STRUCTURES

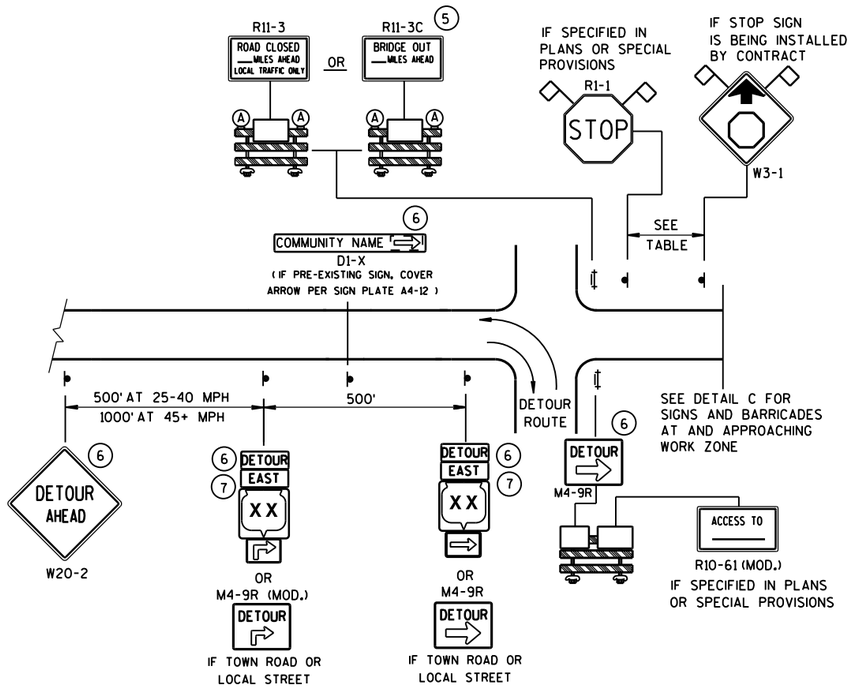
FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/2008
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

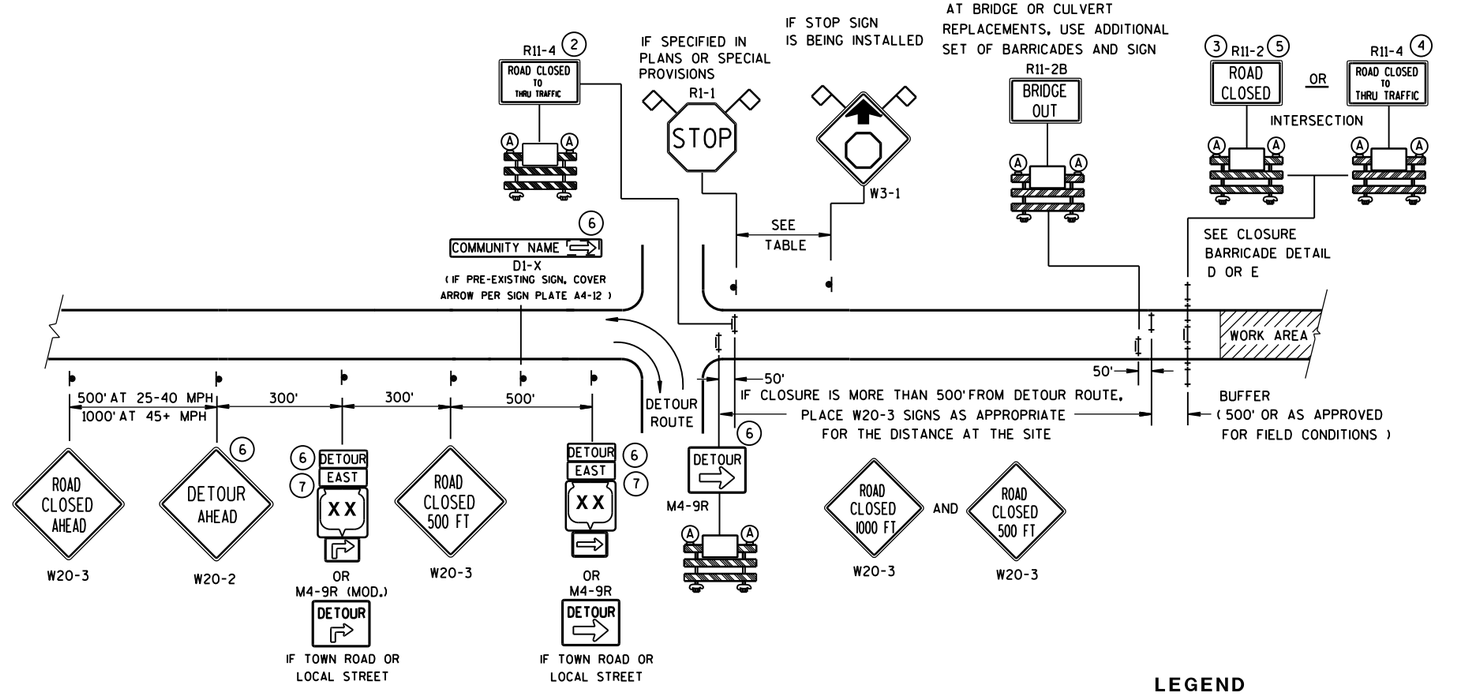
FHWA

6
S.D.D. 15 B 1-8b



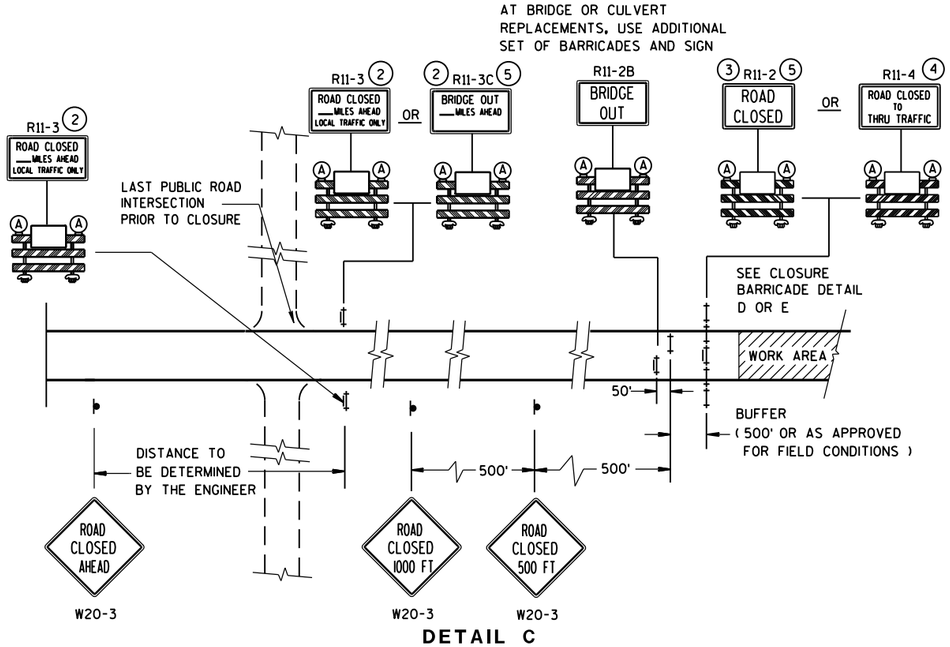
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

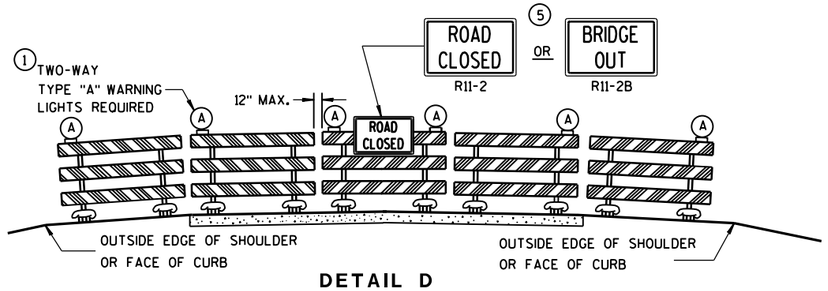
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

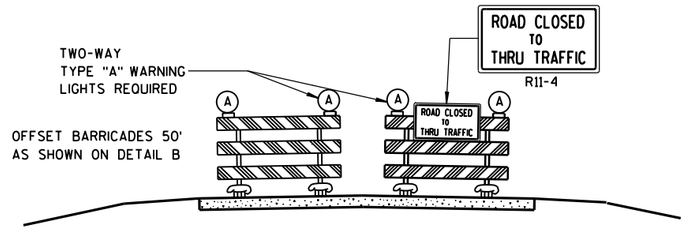
6
S.D.D. 15 C 2-5a



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

8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
572
FHWA

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.

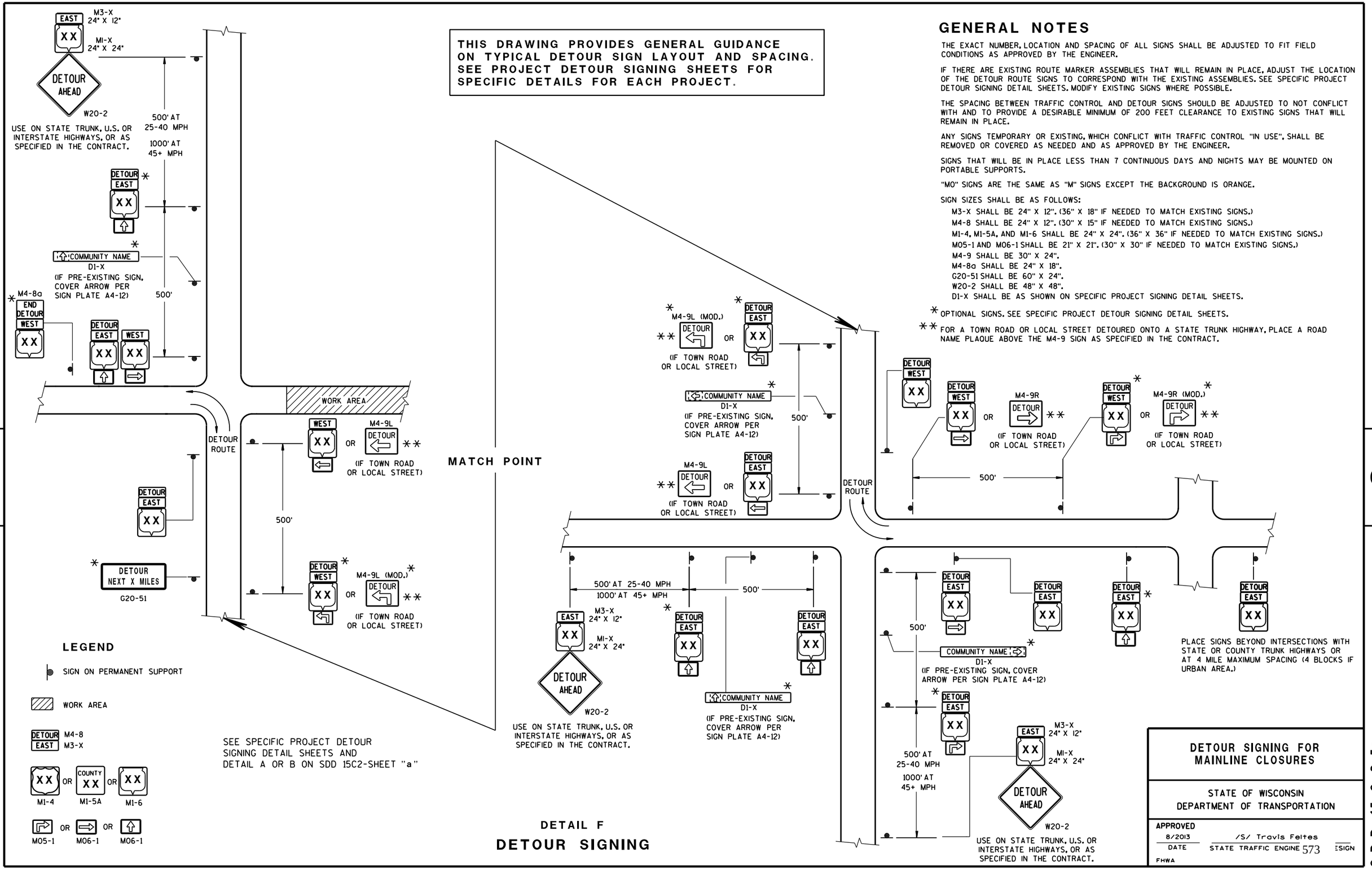
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.)
- M05-1 AND M06-1 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

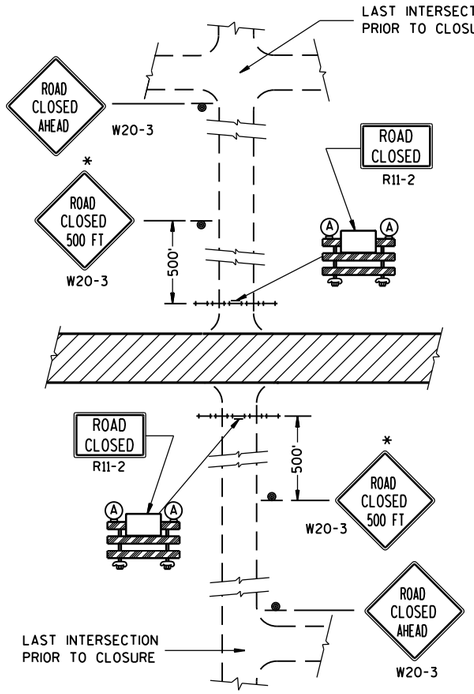
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

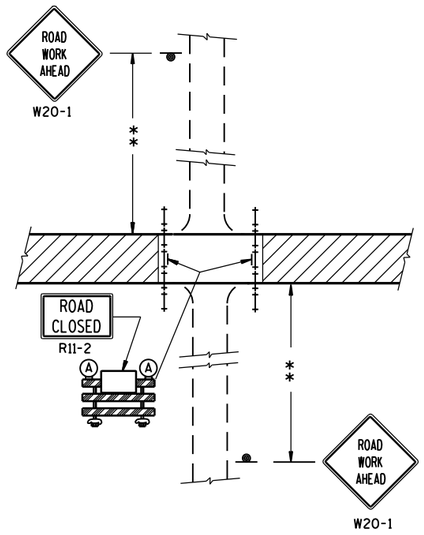
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINE
FHWA

6
S.D.D. 15 C 2-5c



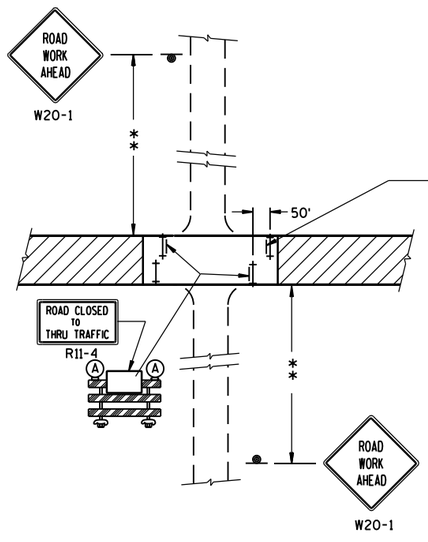
DETAIL 1

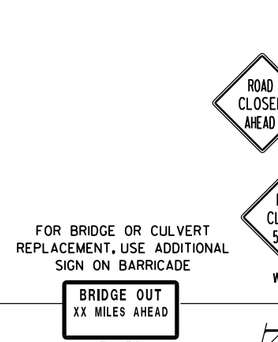
(NO ACCESS TO PROJECT)



DETAIL 2

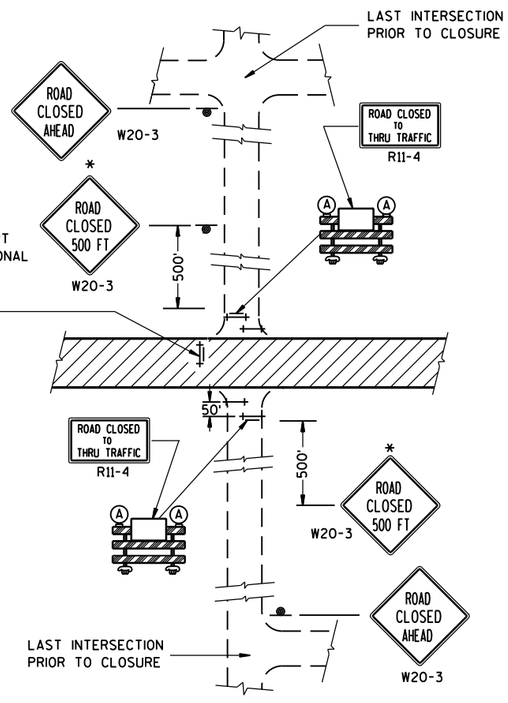
(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

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



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

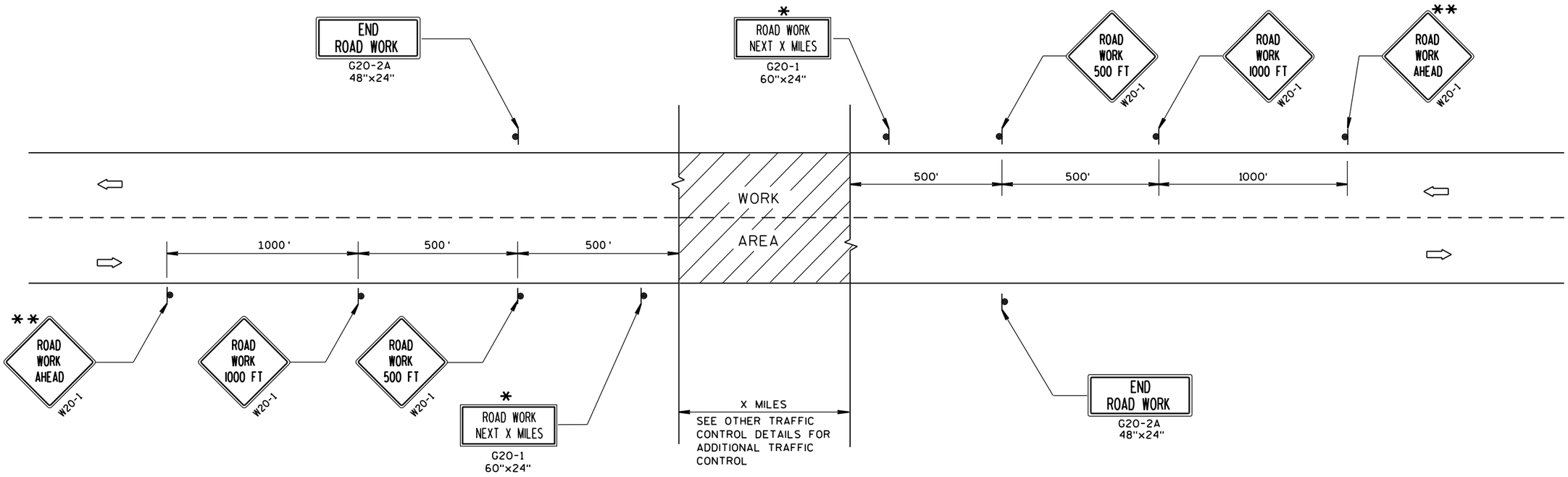
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 3-2

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.

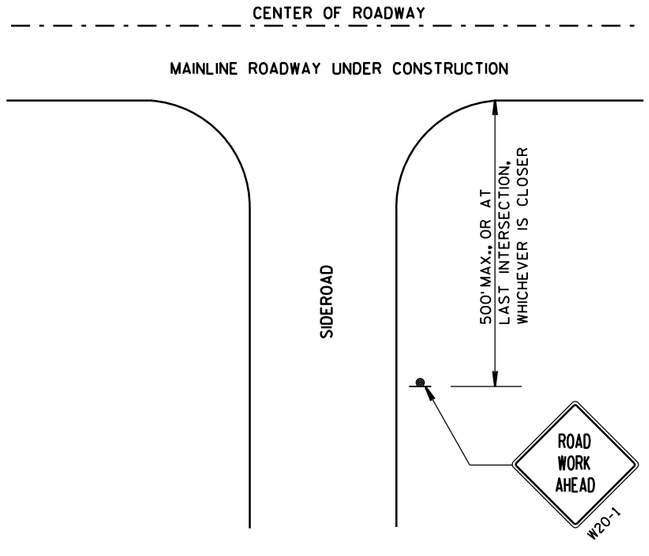
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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 W20-1 "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

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

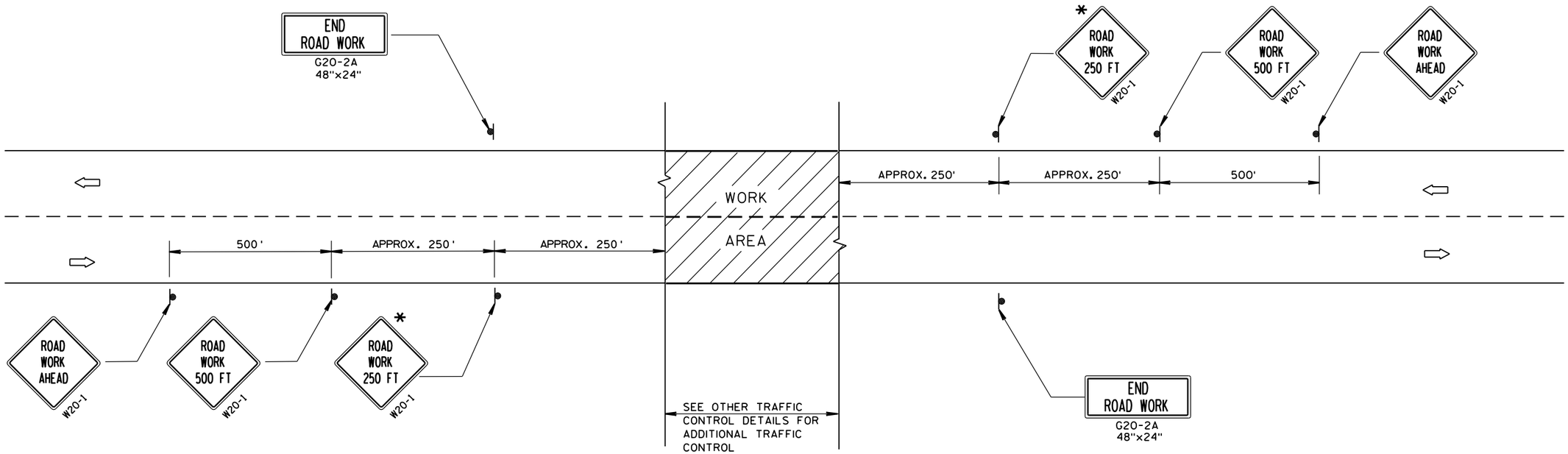
575 — SIGN

FHWA

6

S.D.D. 15 C 4-2

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

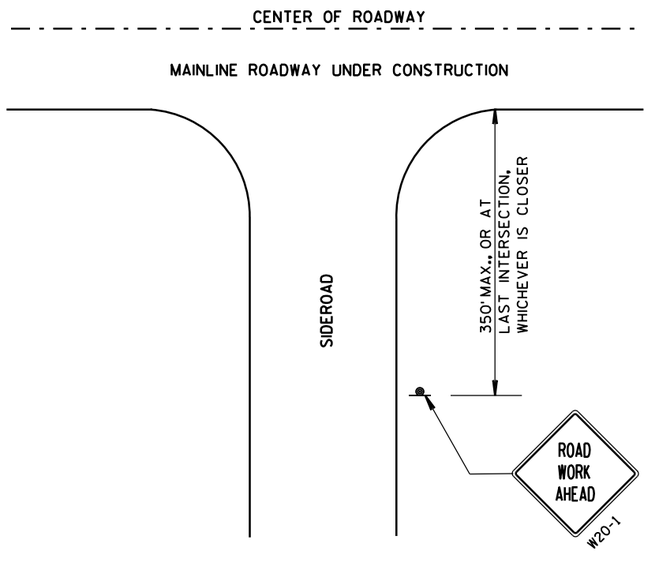
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

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

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



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE — /S/ Travis Feltes STATE TRAFFIC ENGINEER — SIGN

FHWA

6

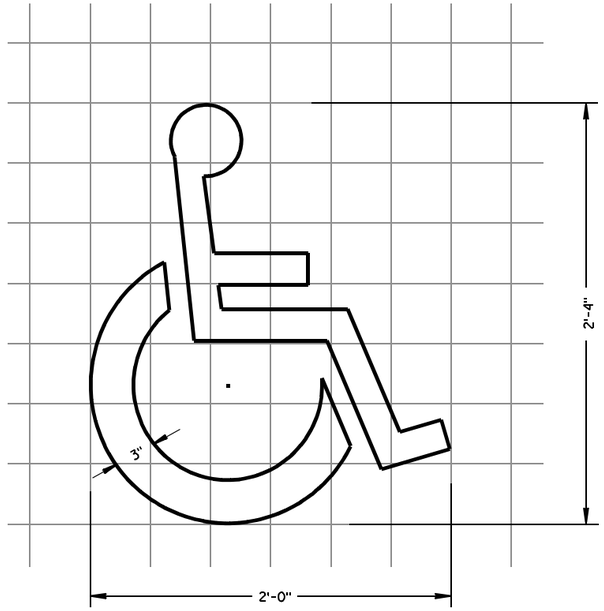
S.D.D. 15 C 5-2

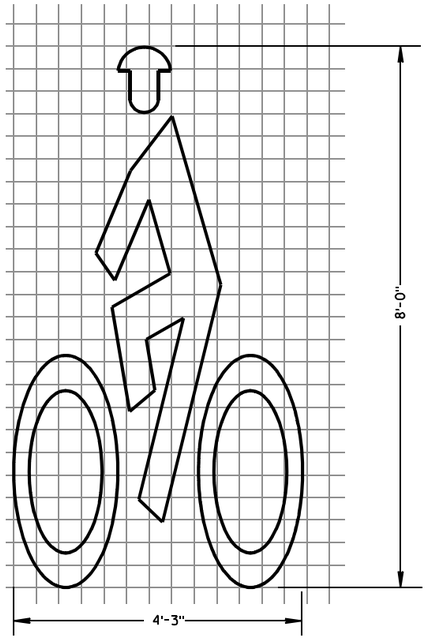
GENERAL NOTES

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

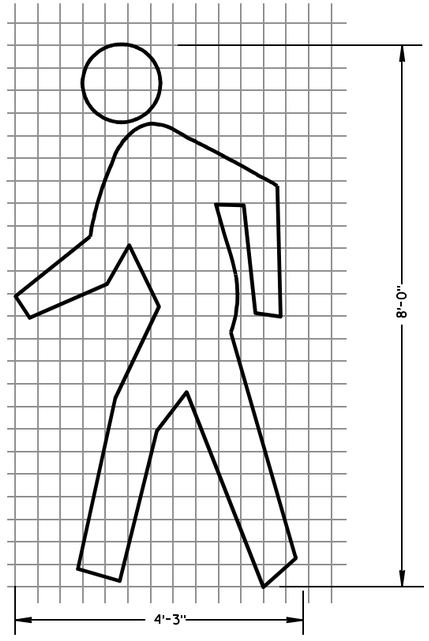
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

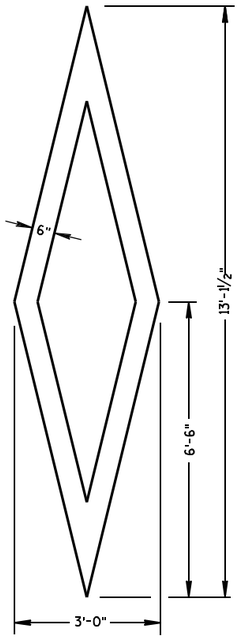




BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

S.D.D. 15 C 7-12a

S.D.D. 15 C 7-12a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 DATE

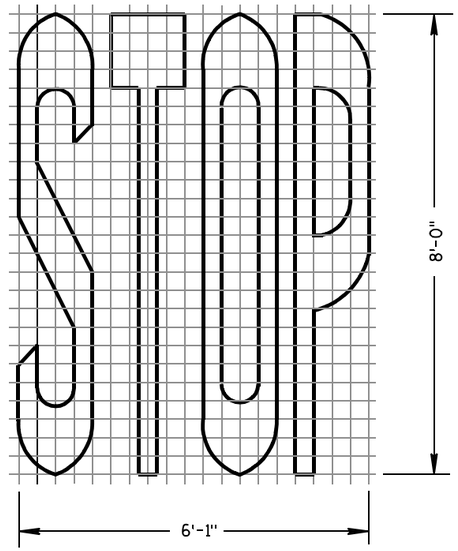
/S/ Thomas N Nathan
STATE TRAFFIC ENGINEER 577 IGN

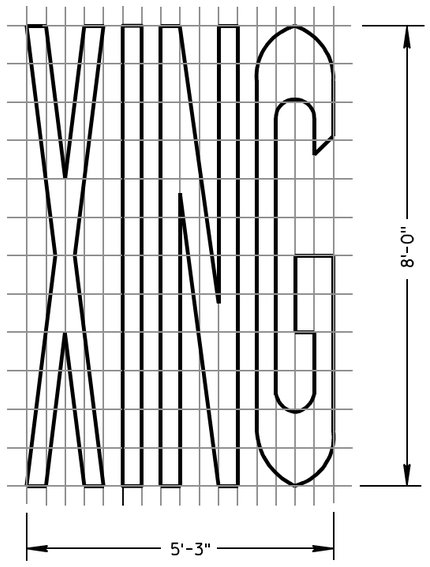
FHWA

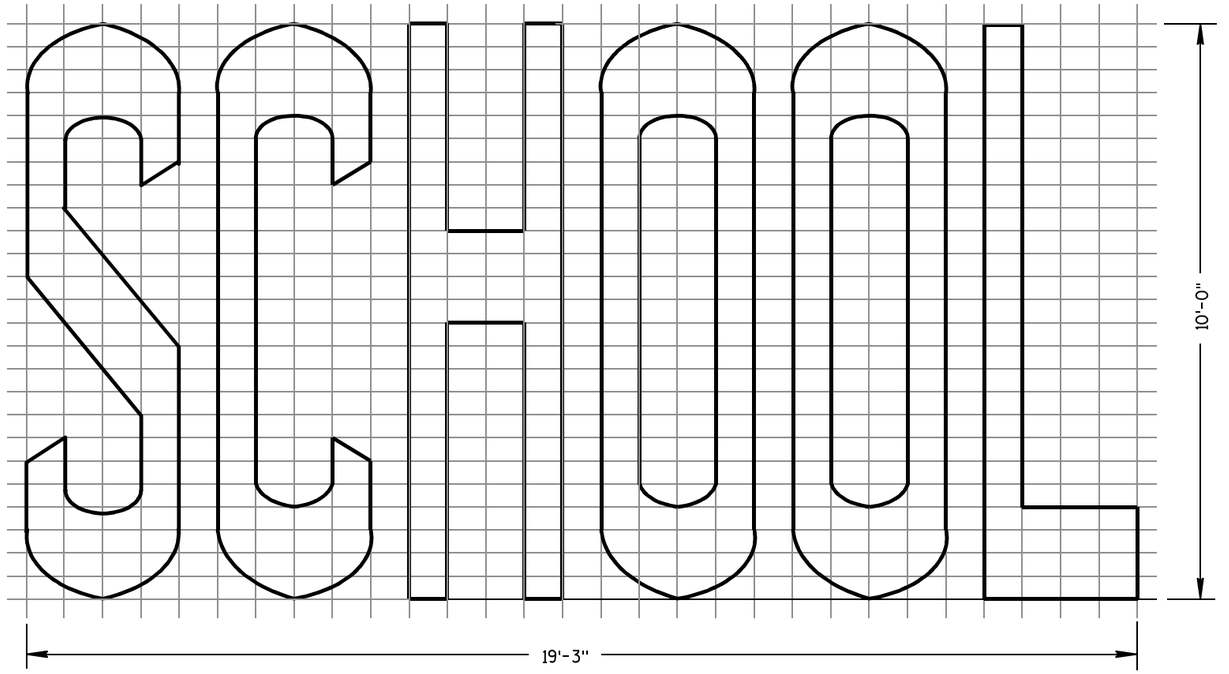
GENERAL NOTES

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

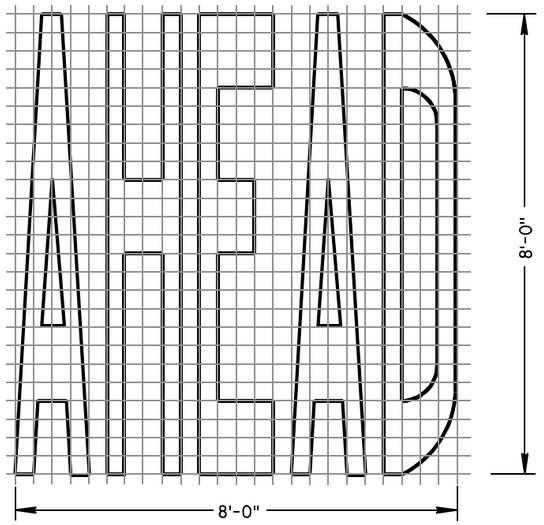
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

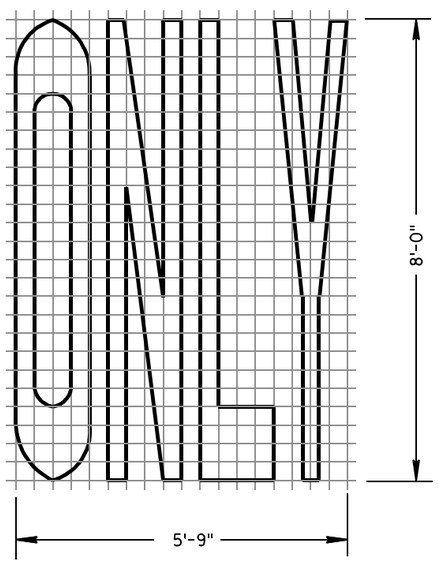


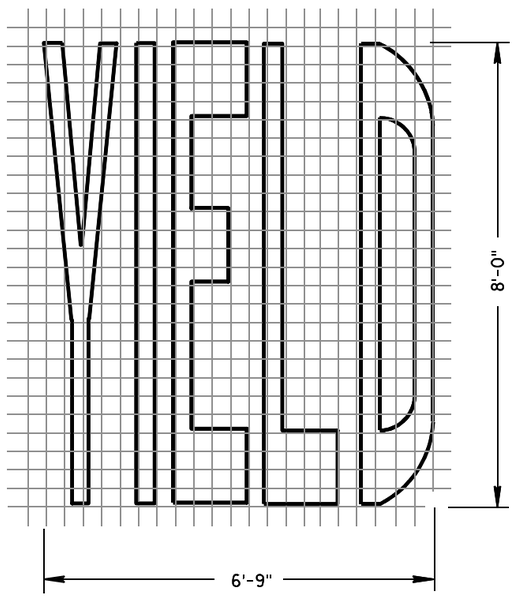


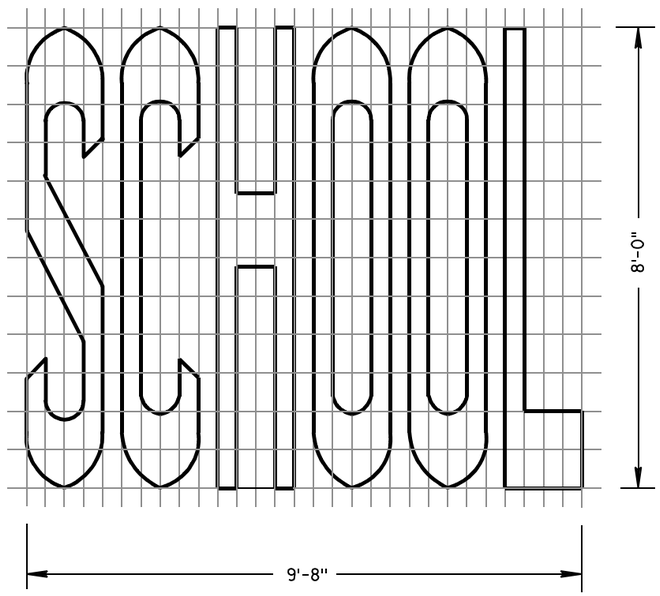


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE

/S/ Thomas N. Nothohm
STATE TRAFFIC ENGINEER

578

IGN

FHWA

6

S.D.D. 15 C 7-12b

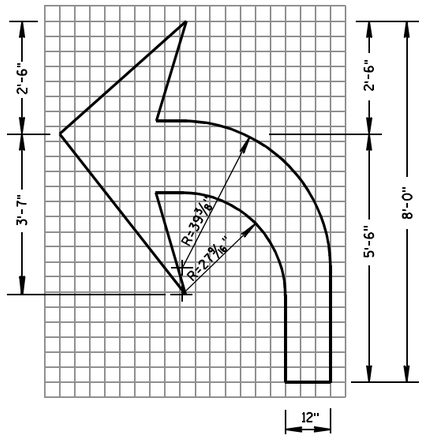
6

S.D.D. 15 C 7-12b

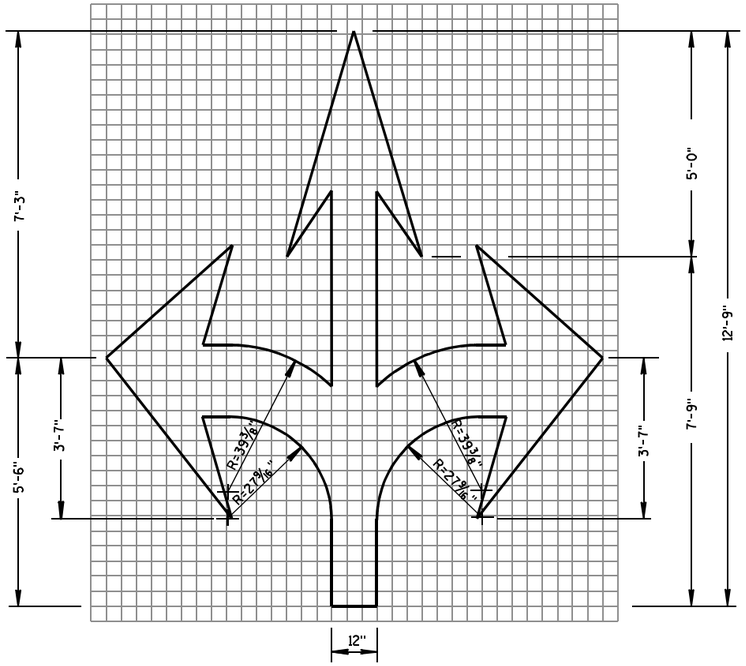
GENERAL NOTES

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

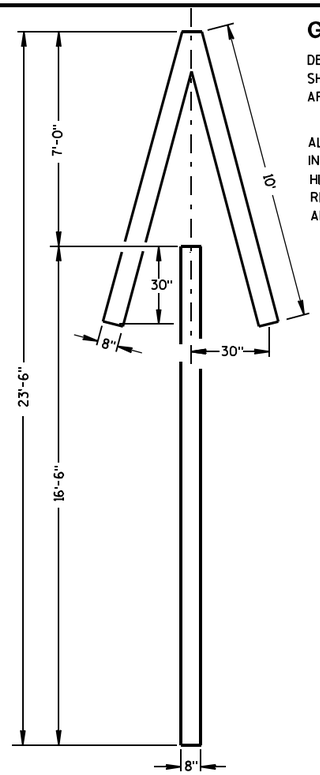
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TYPE 2



TYPE 6



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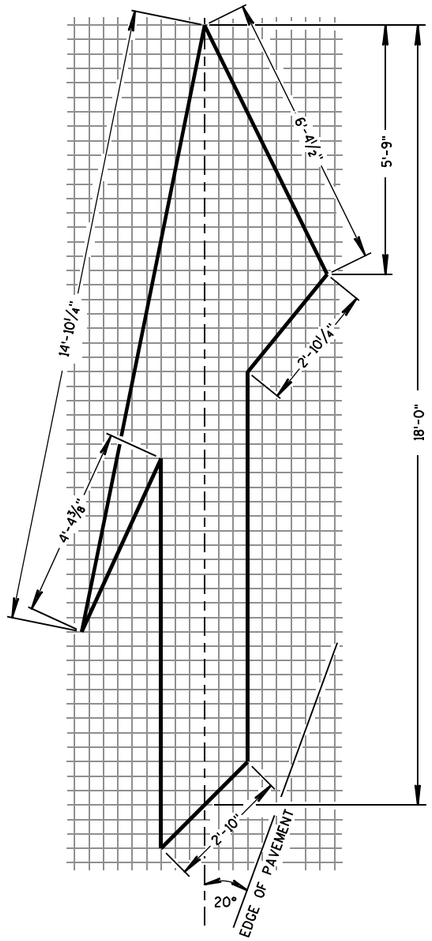
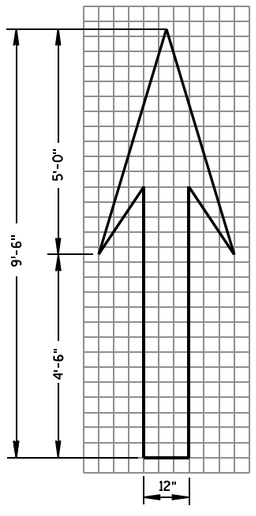
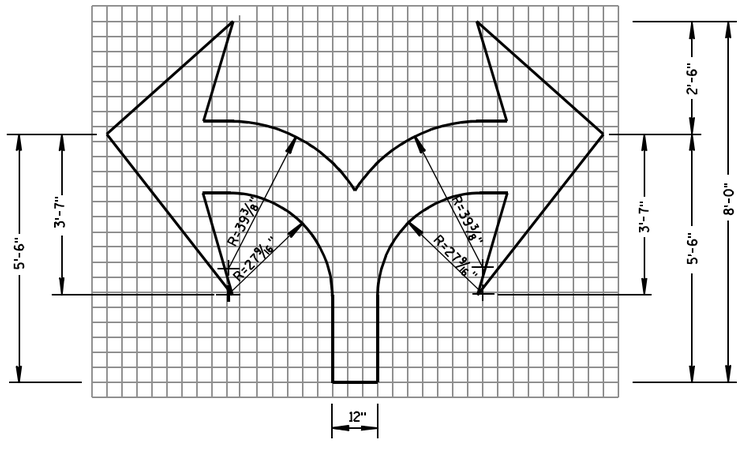


TYPE 5 LANE DROP ARROW



TYPE 1



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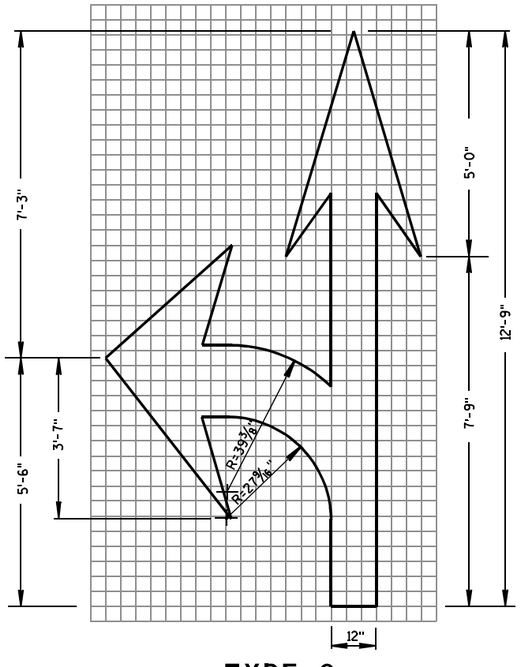


TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 7-12c

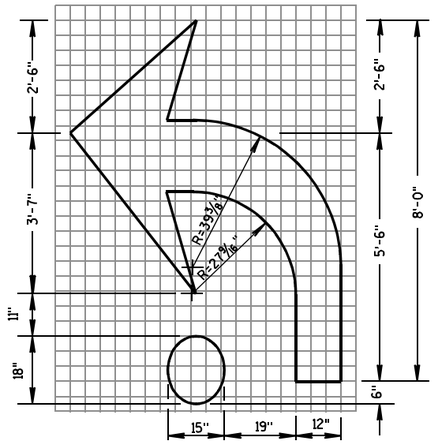
6

S.D.D. 15 C 7-12c

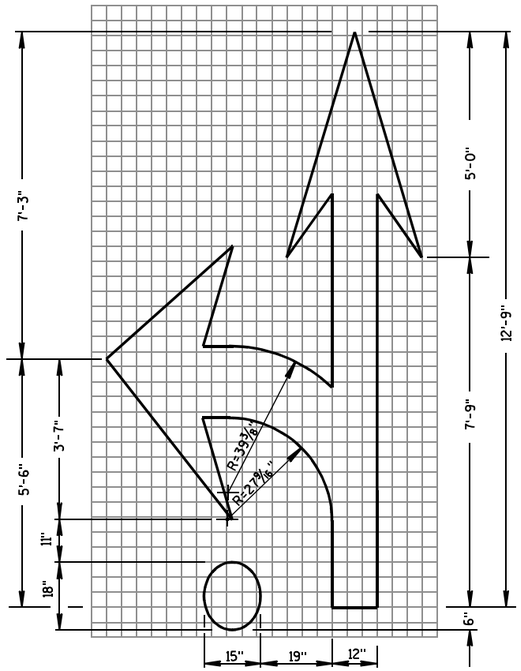
GENERAL NOTES

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

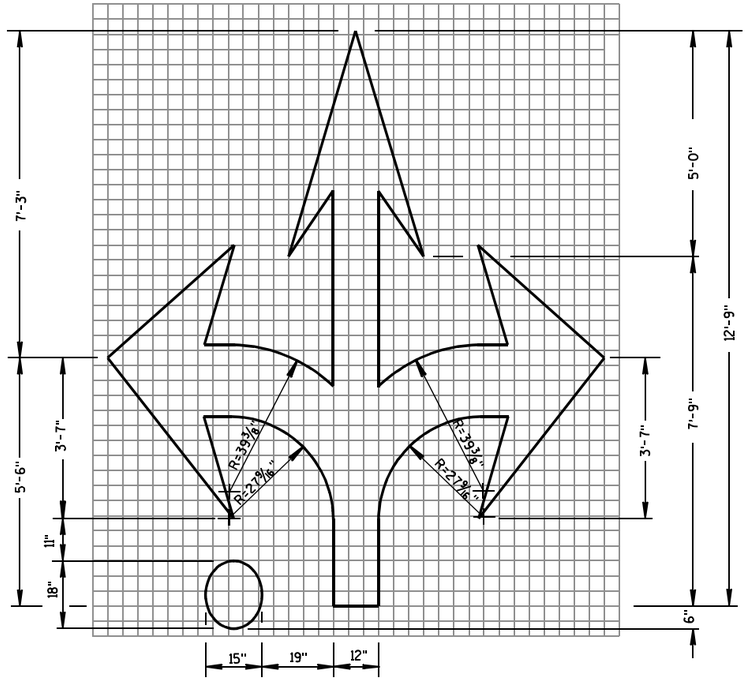
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



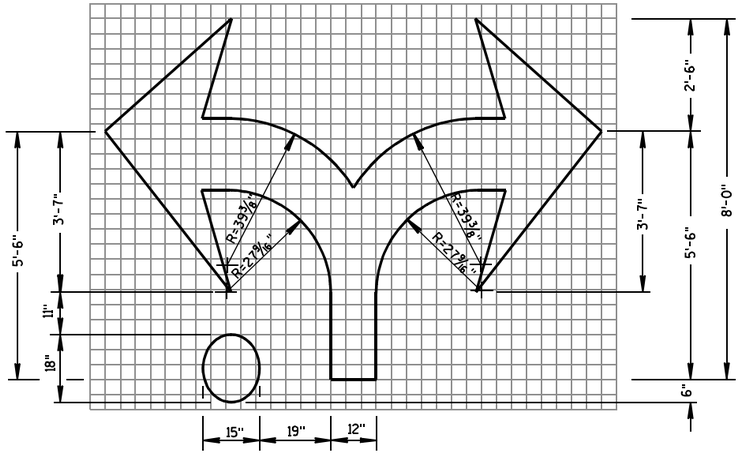
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

ROUNDABOUT ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurm — STATE TRAFFIC ENGINEER

FHWA

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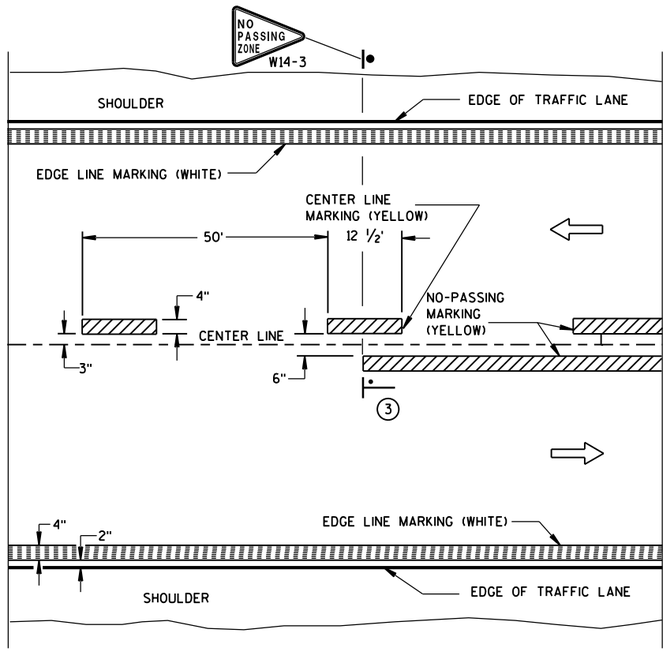
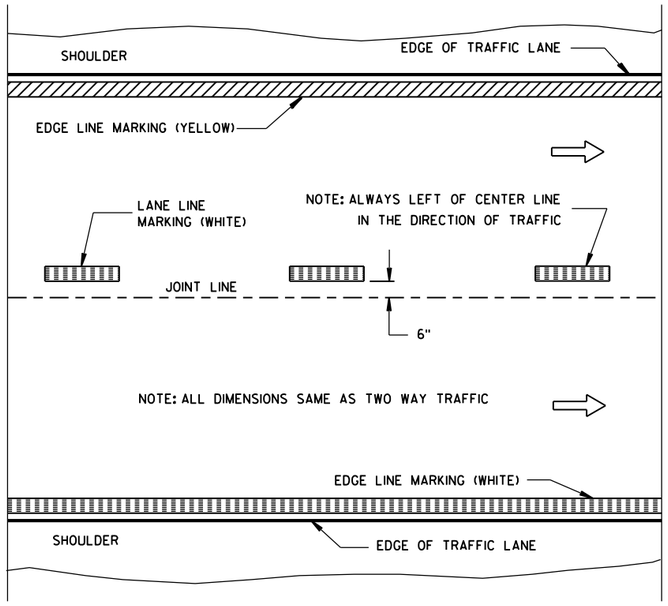
S.D.D. 15 C 7-12d

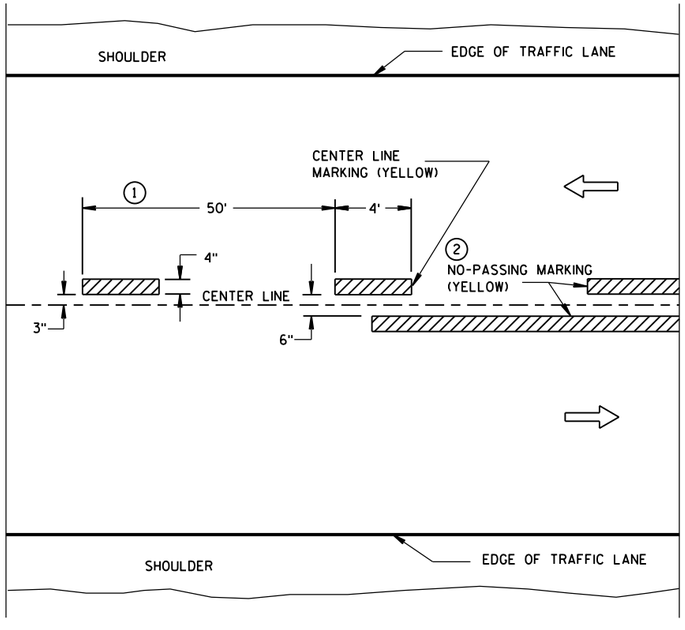


TWO WAY TRAFFIC

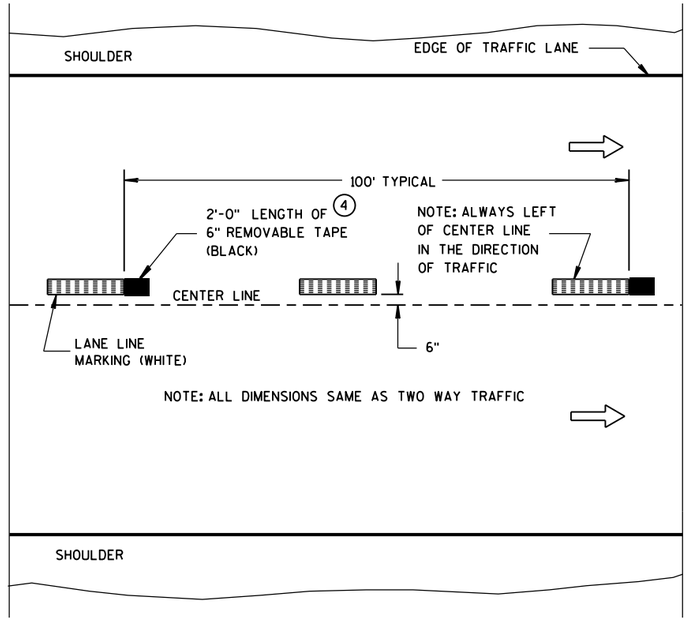


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

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

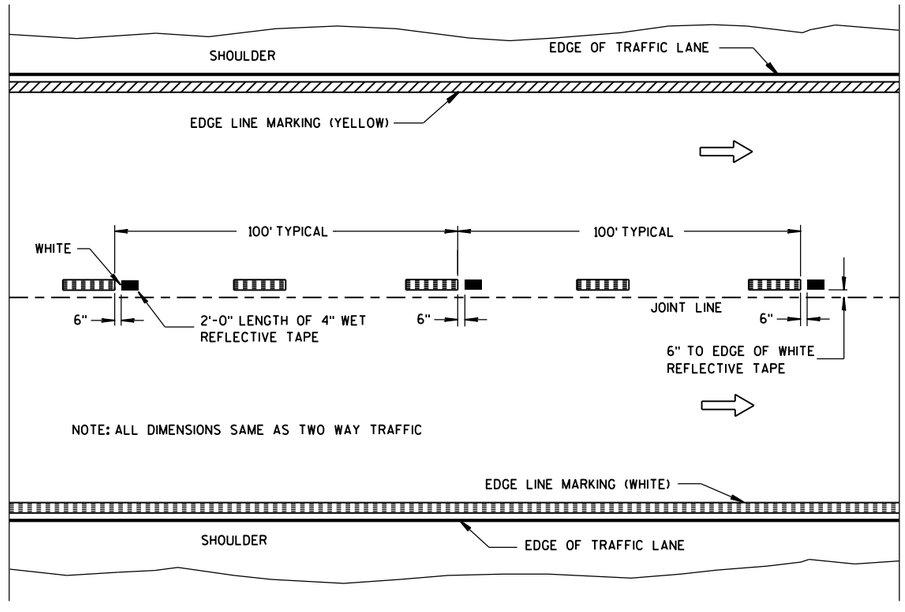
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

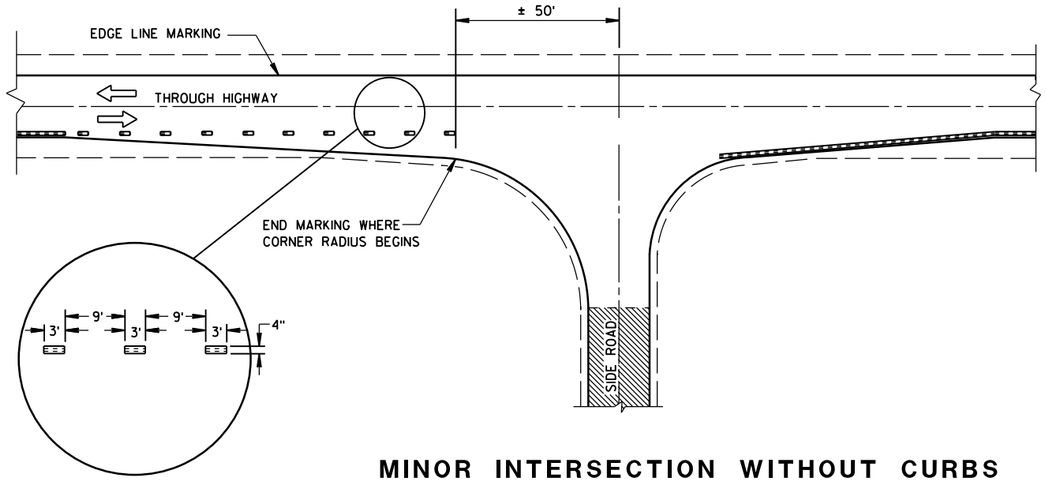
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

6

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

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.

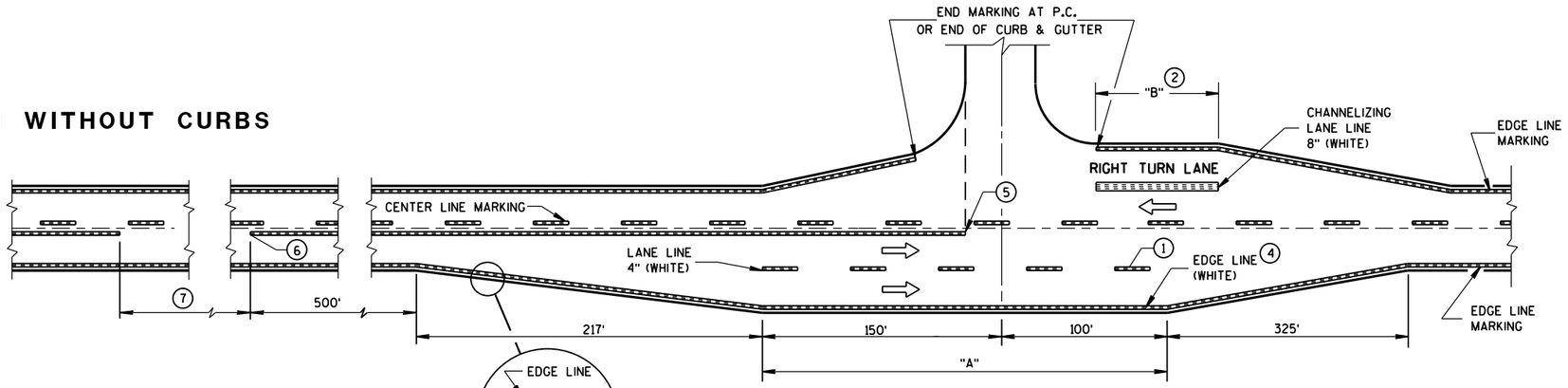
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

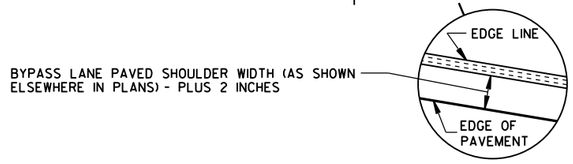
(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

(7)

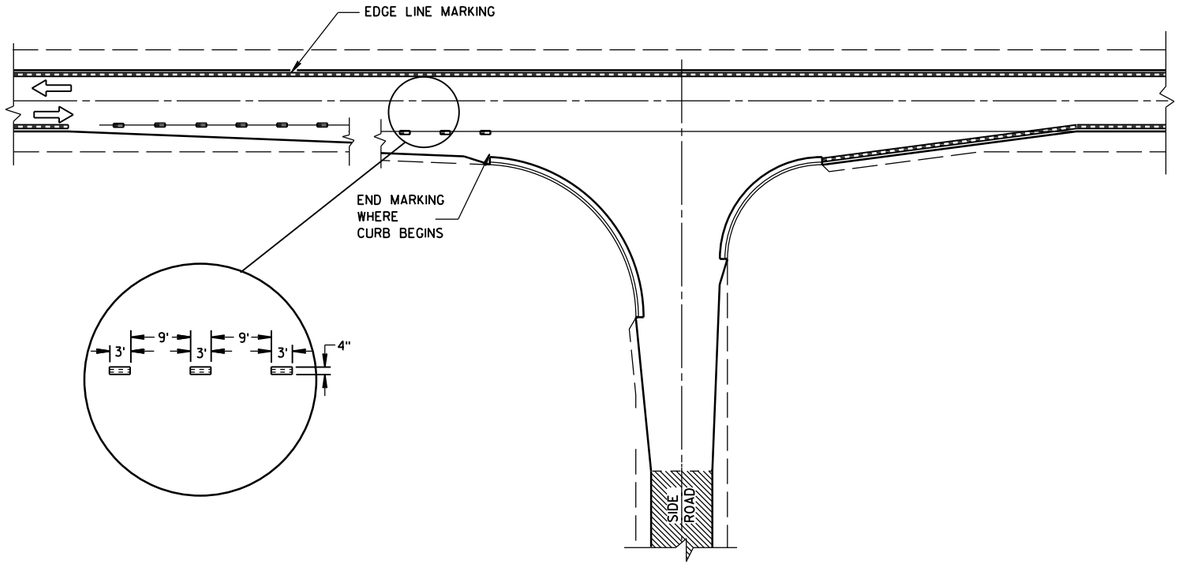
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792





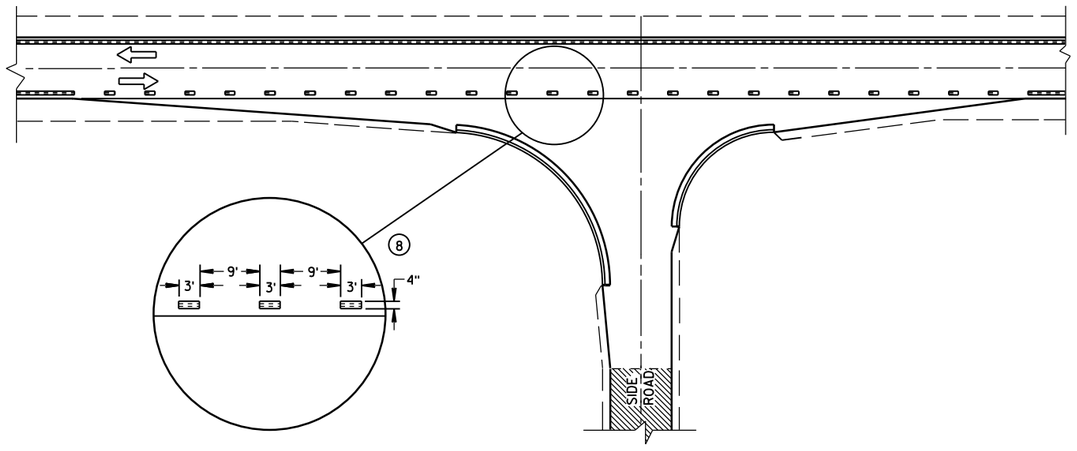
MAJOR INTERSECTIONS

(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

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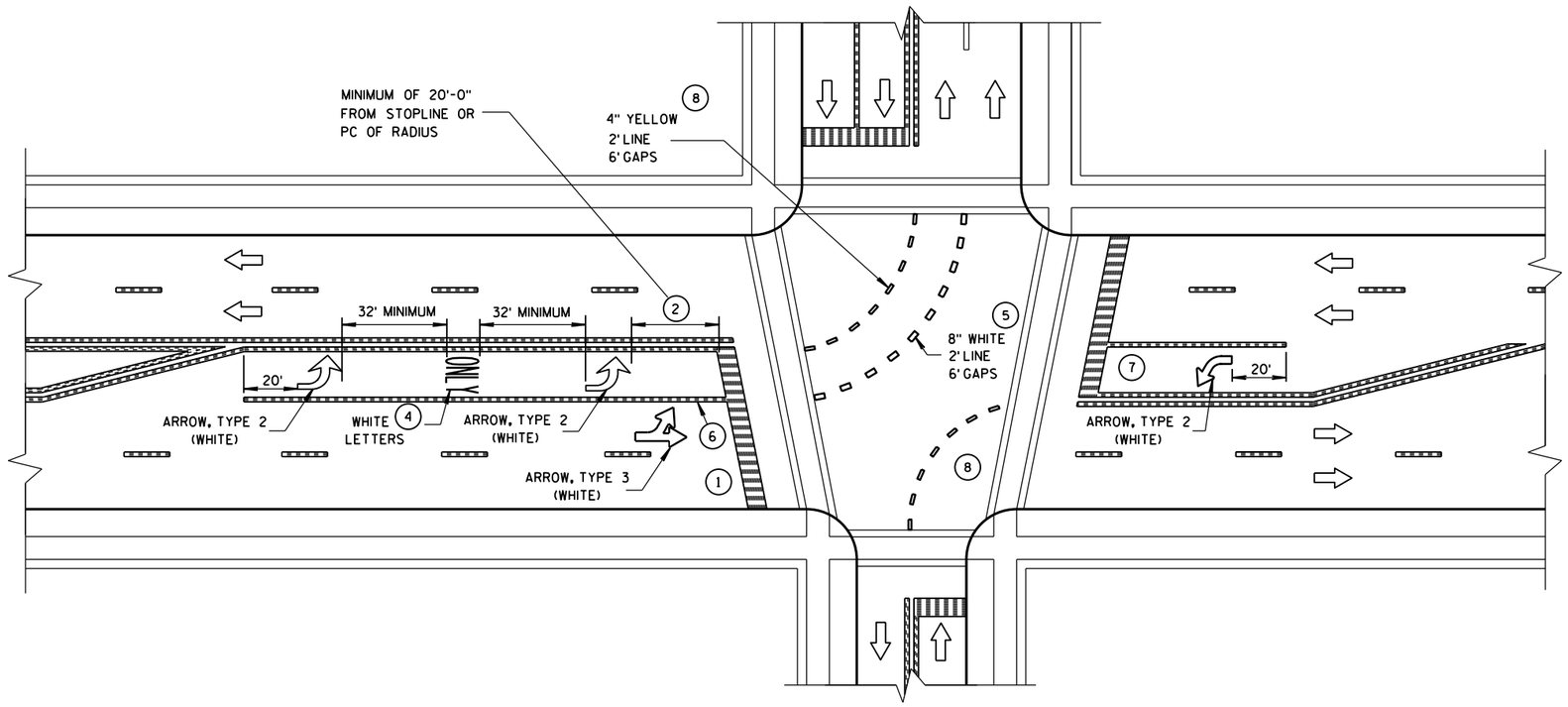
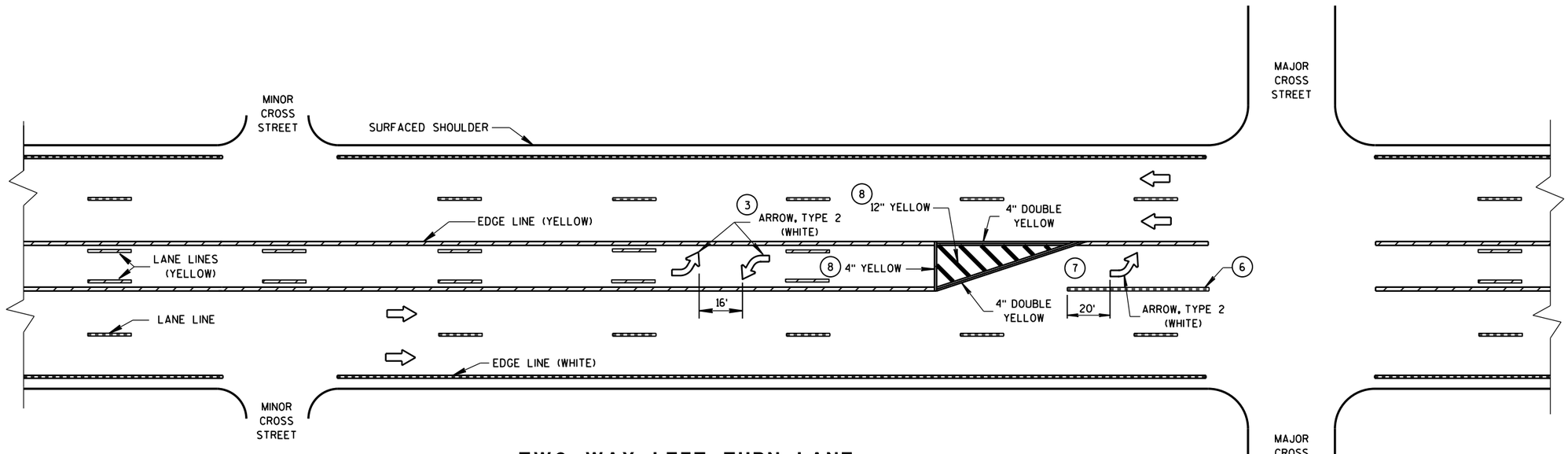
S.D.D. 15 C 8-16b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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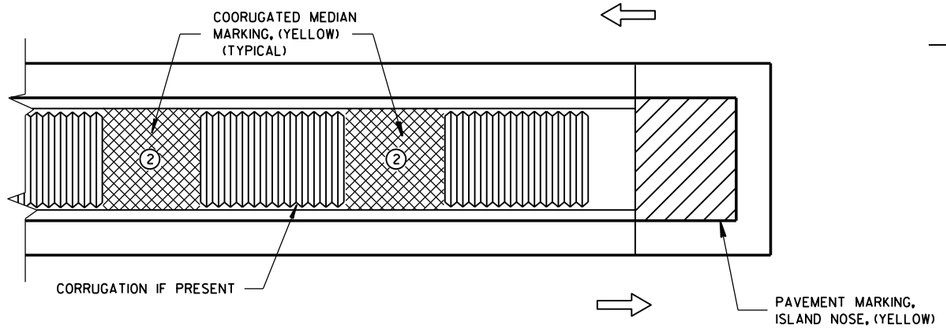
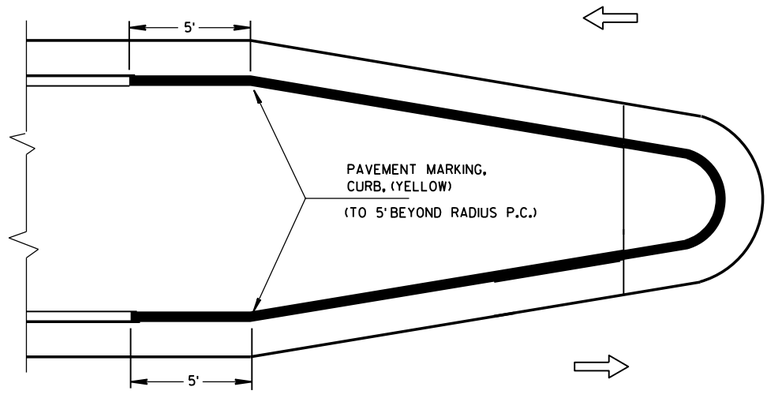
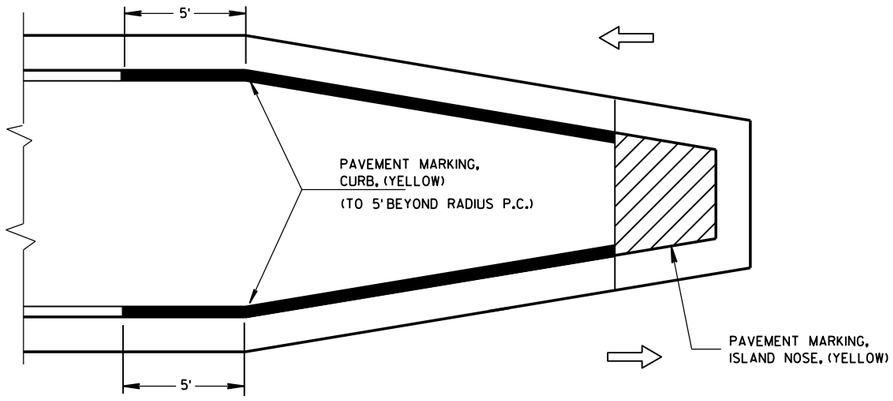


MEDIAN ISLAND WITH SQUARE BLUNT NOSE

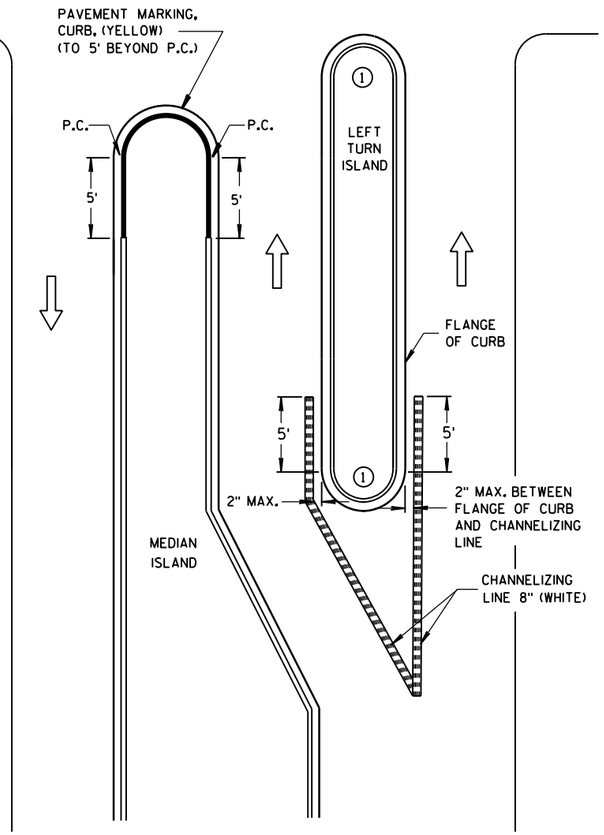


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

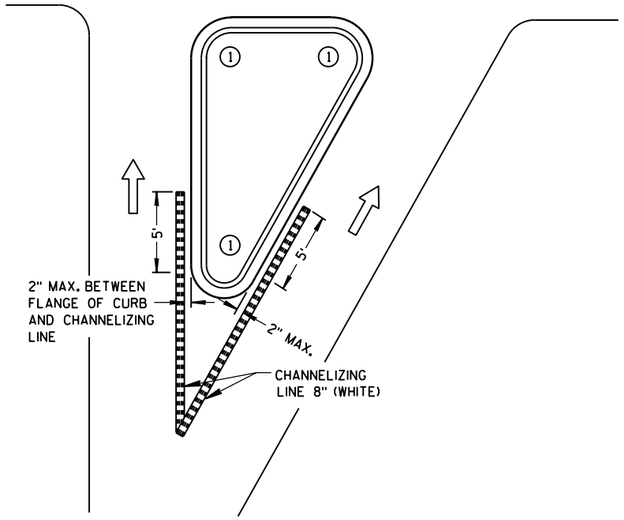


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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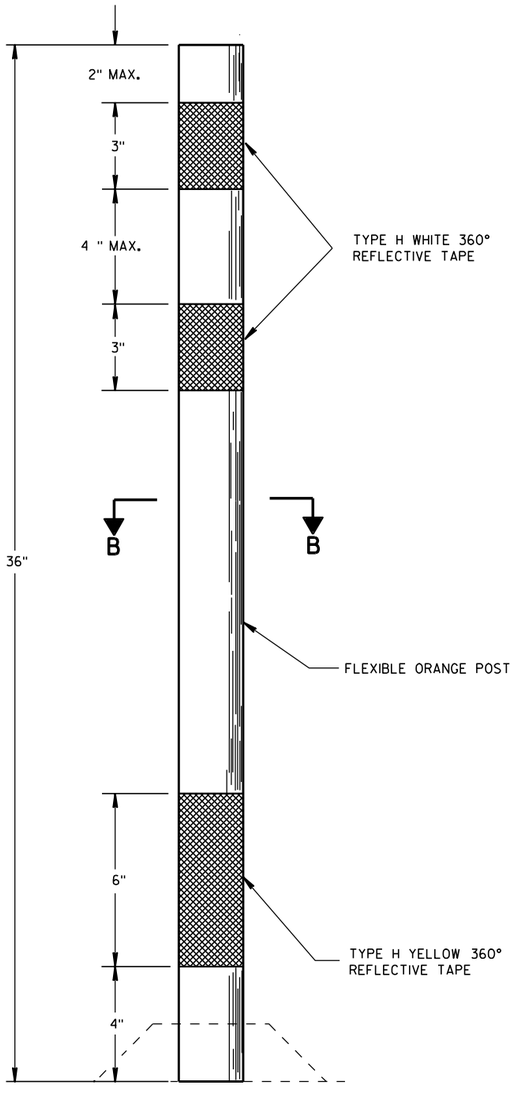
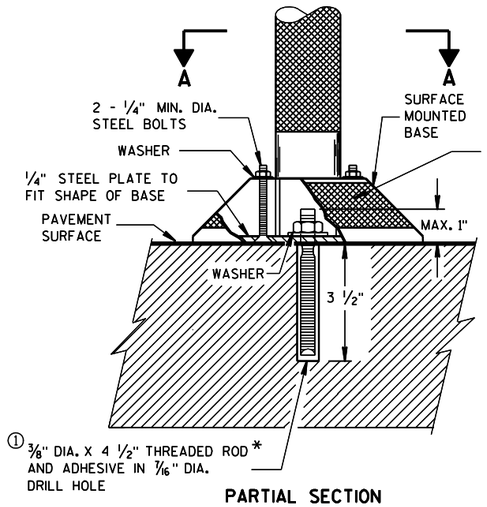
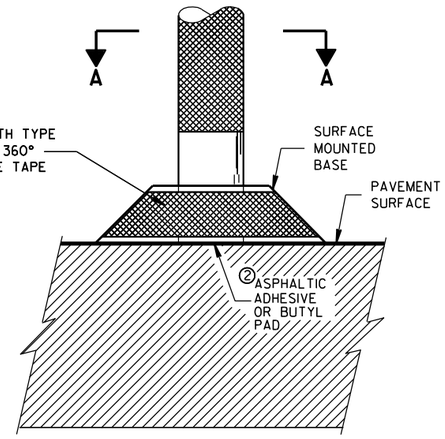


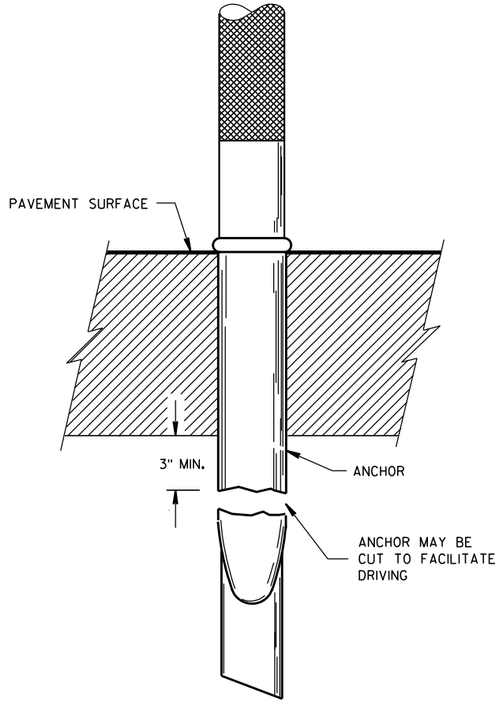
FLEXIBLE TUBULAR MARKER POST



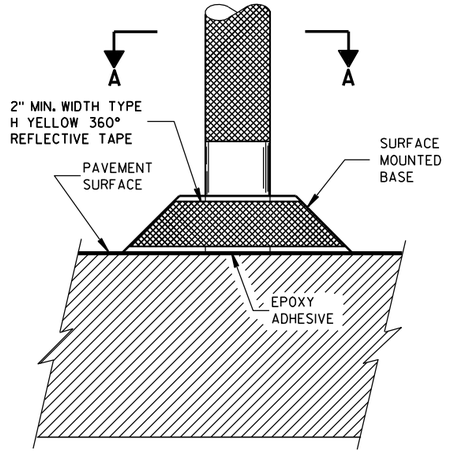
PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT



POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED



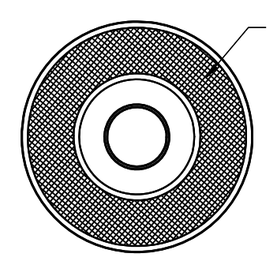
GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

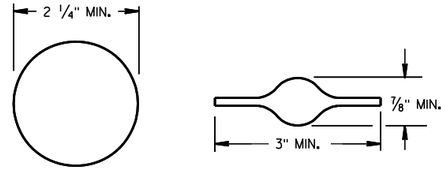
① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



SECTION A-A

SURFACE MOUNTED BASE



SECTION B-B

ALTERNATIVE SHAPES

FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 2/17/94 DATE /S/ Chester J. [illegible] DIRECTOR, OFFICE O 585 FHWA

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LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

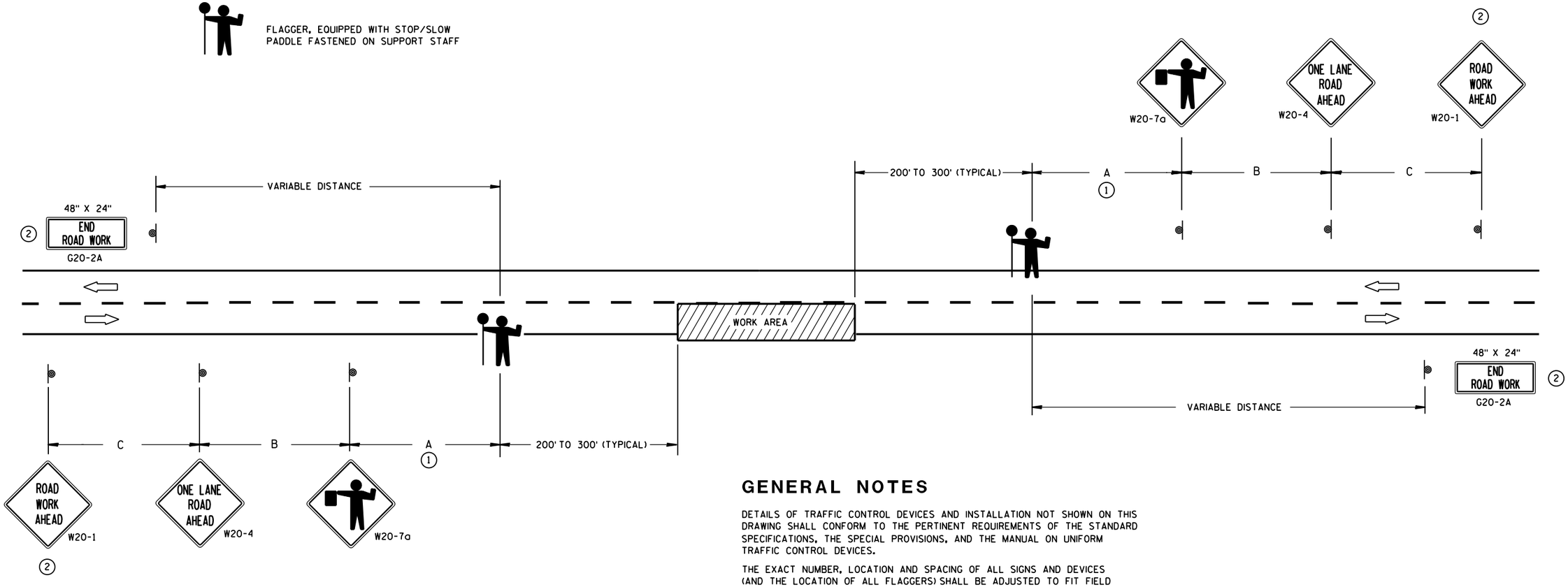
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

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

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S.D.D. 15 C 12-4

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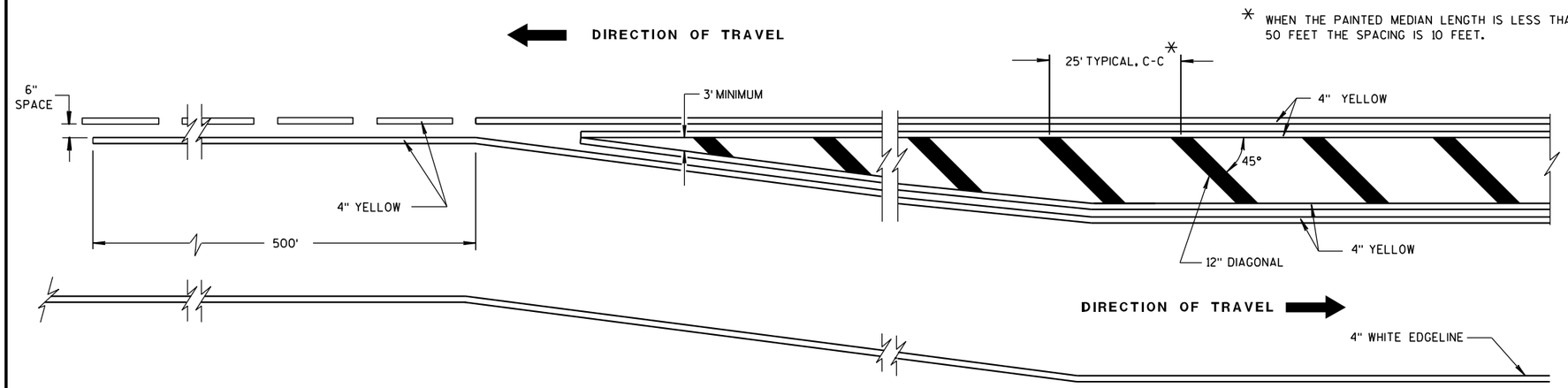
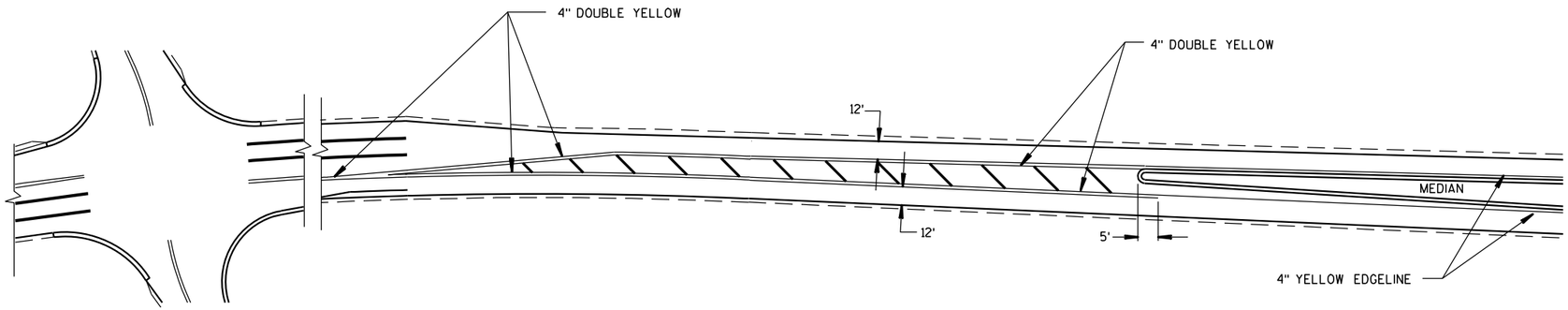
S.D.D. 15 C 12-4



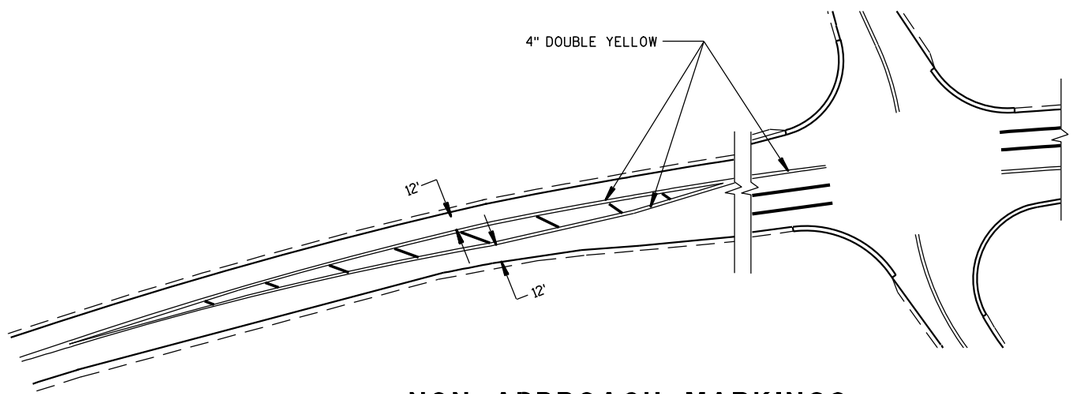
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER 587 IGN
FHWA	

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S.D.D. 15 C 18-3

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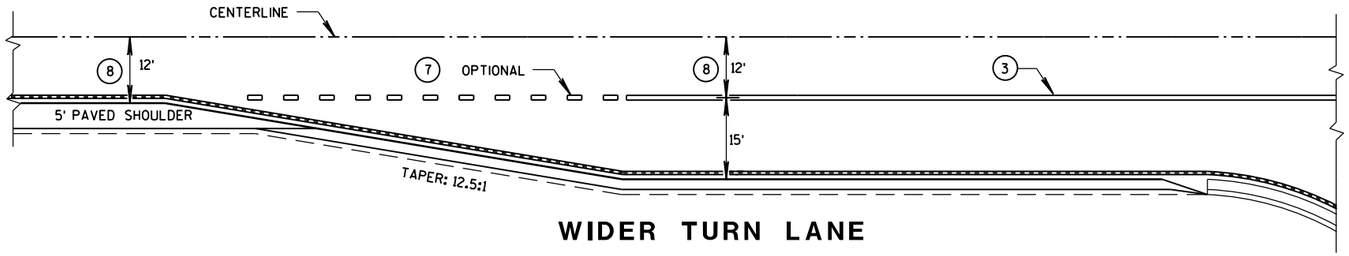
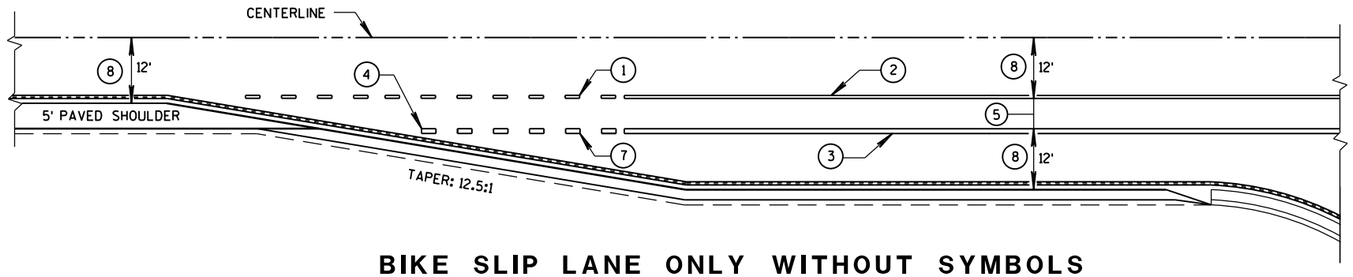
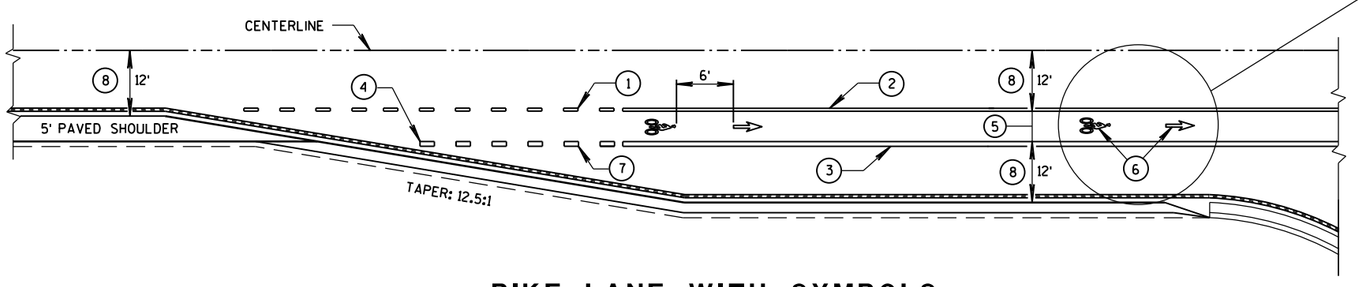


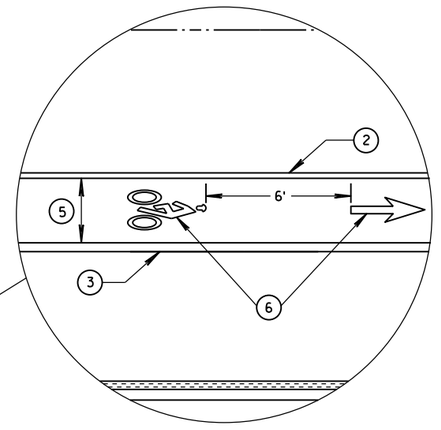
WIDER TURN LANE



BIKE SLIP LANE ONLY WITHOUT SYMBOLS



BIKE LANE WITH SYMBOLS



GENERAL NOTES

1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMMODATION FOR CONCRETE PAVEMENT IS 5' WIDE.
   BIKE ACCOMMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4', 5' AT ≥ 45 MPH.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.
8. REFER TO CONTRACT PLANS.

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

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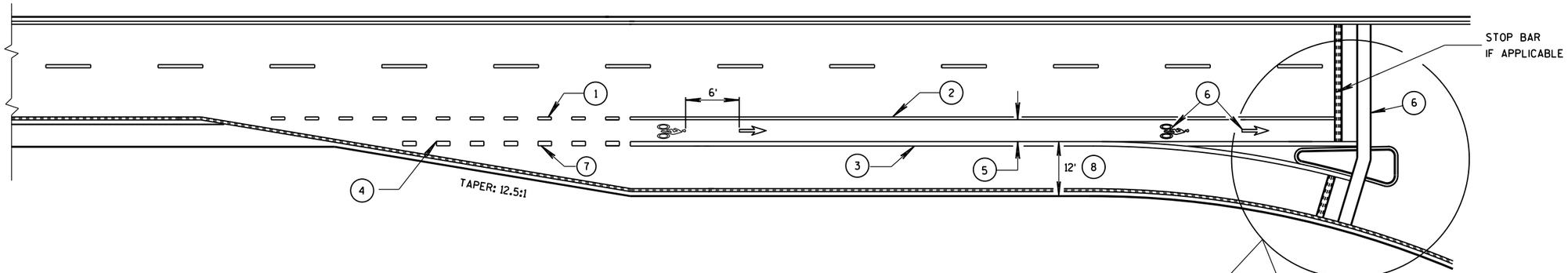
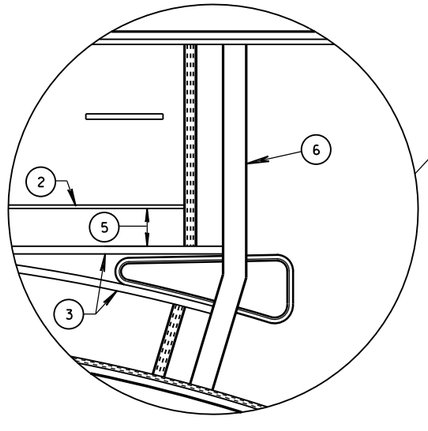
S.D.D. 15 C 29-3a

GENERAL NOTES

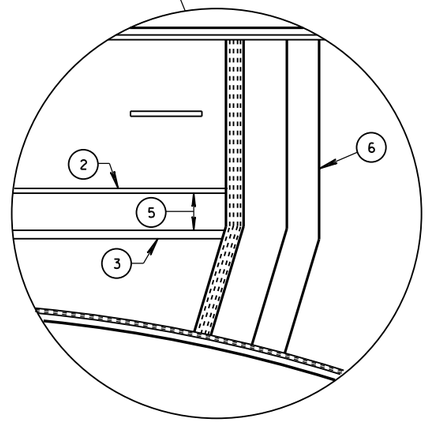
1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. 5' TYPICAL.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.
8. REFER TO CONTRACT PLANS.



BIKE LANE - 4-LANE DIVIDED WITH RIGHT TURN LANE



4 LANE DIVIDED WITH ISLAND



4 LANE DIVIDED WITHOUT ISLAND

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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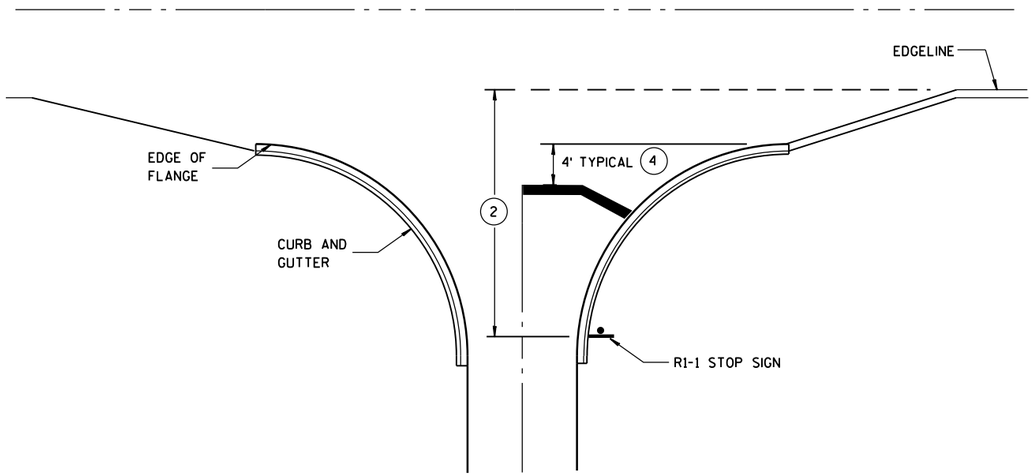
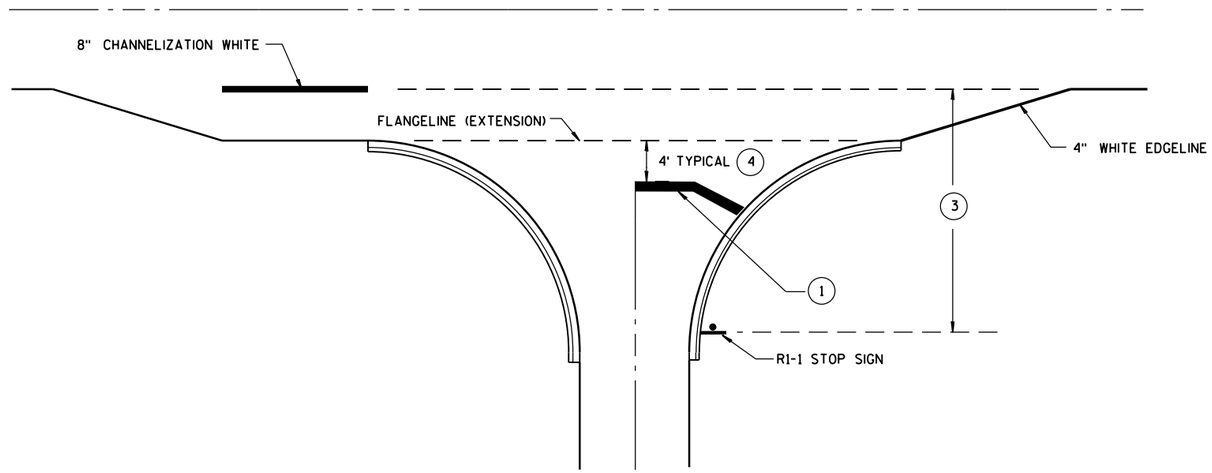
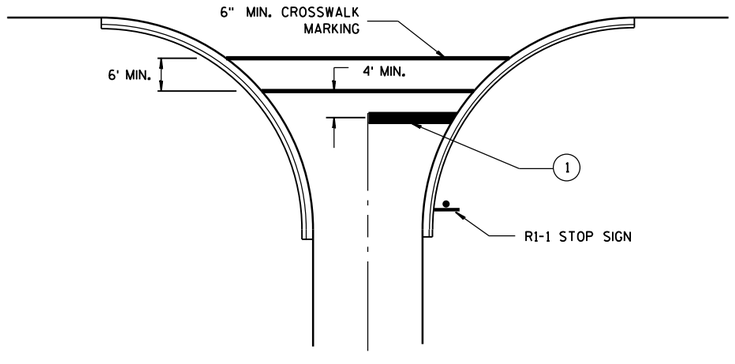


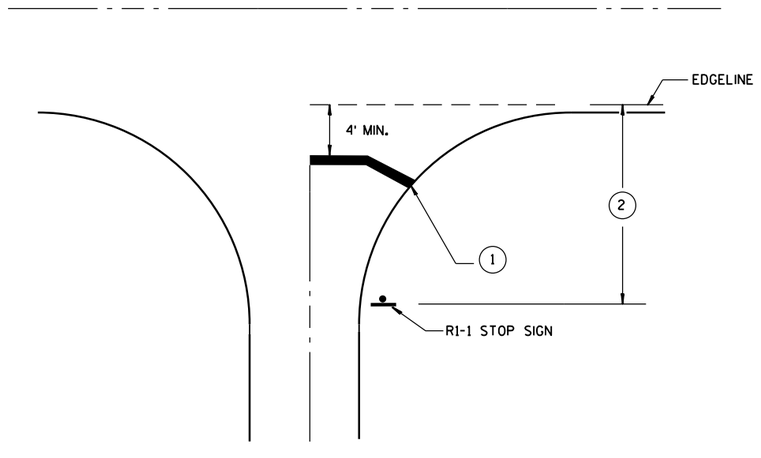
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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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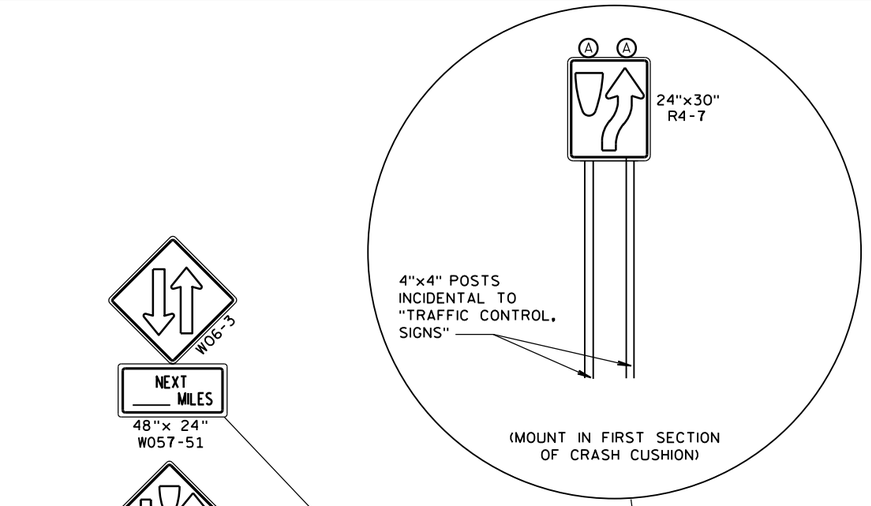
S.D.D. 15 C 33-1



** NOTE: SEE SDD 15 D 12 FOR LANE CLOSURE DETAILS.

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

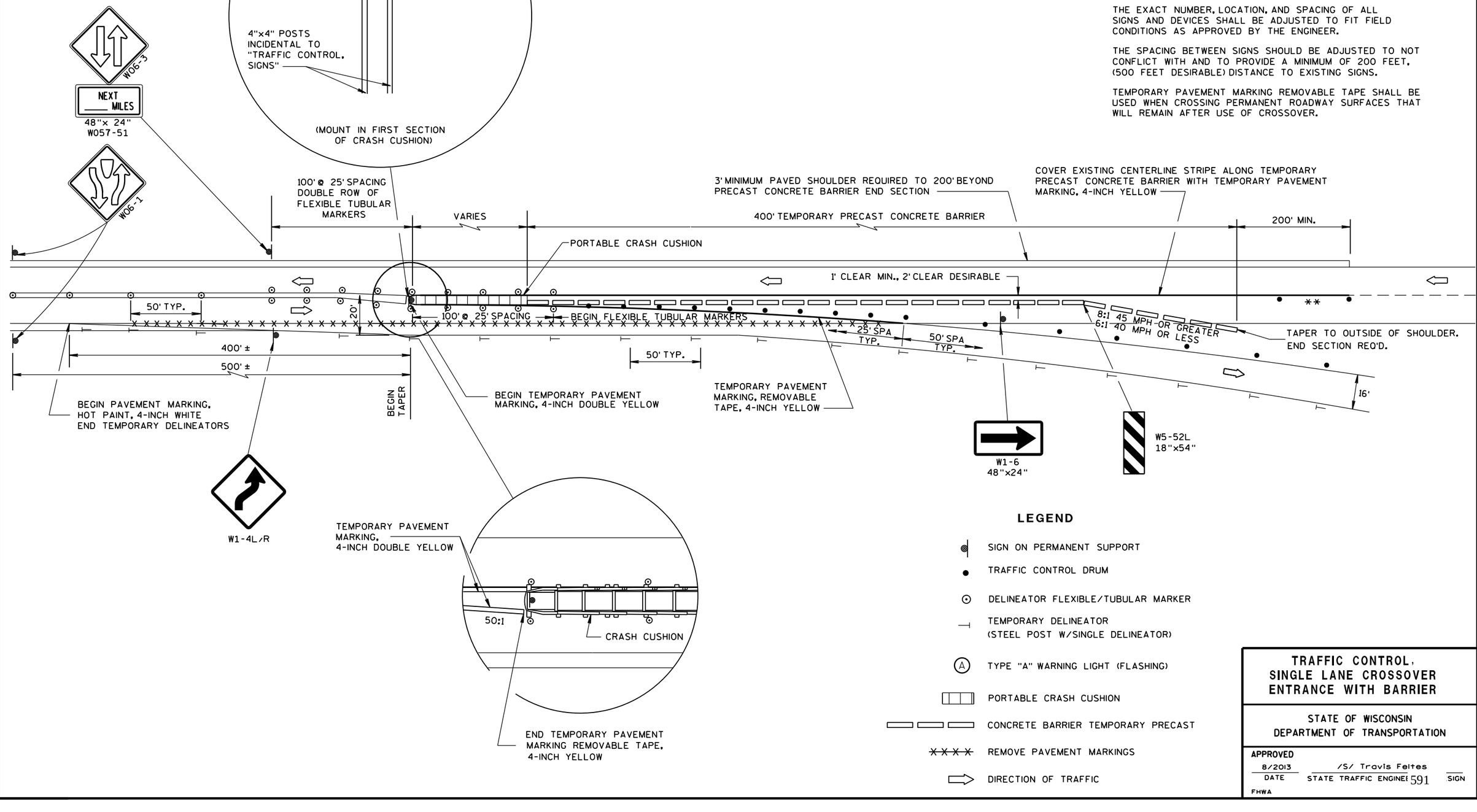
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER.



LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR)
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- PORTABLE CRASH CUSHION
- CONCRETE BARRIER TEMPORARY PRECAST
- REMOVE PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, SINGLE LANE CROSSOVER ENTRANCE WITH BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

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SIGN

FHWA

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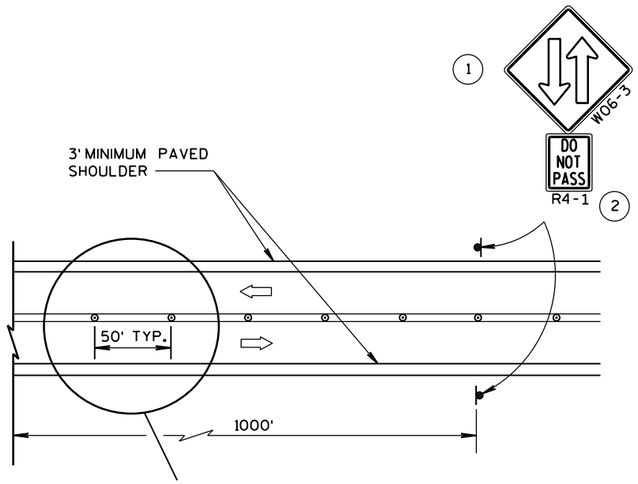
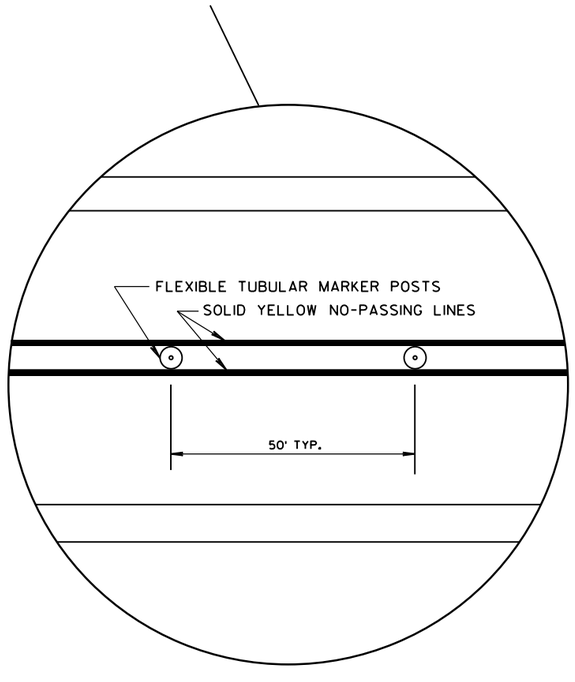
S.D.D. 15 D 5-3



TWO LANE, TWO WAY OPERATION



GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.

THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

(2) CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE — /S/ Travis Feltes STATE TRAFFIC ENGINEER — SIGN

FHWA

6

S.D.D. 15 D 6-3

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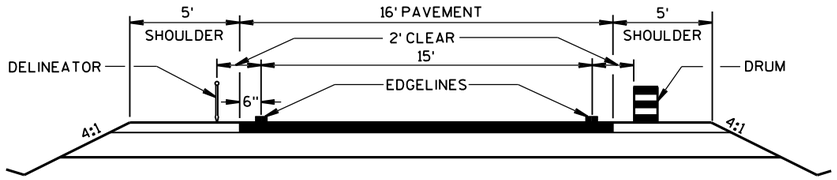
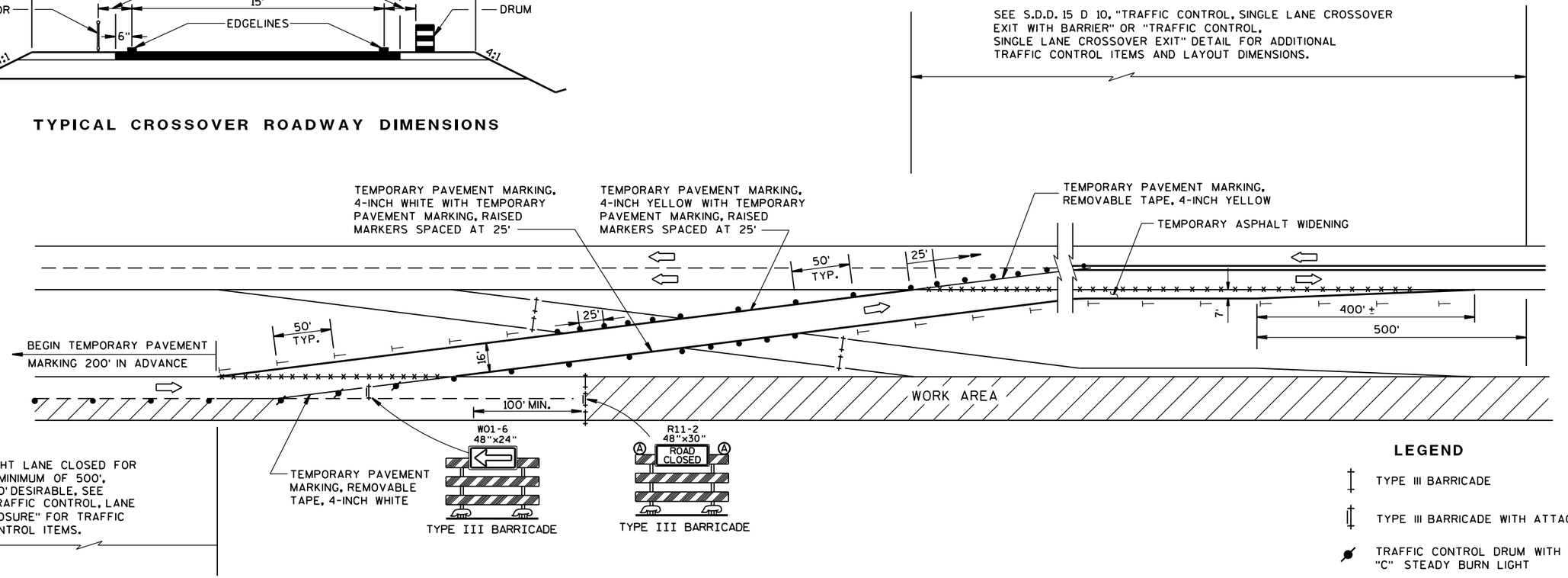
S.D.D. 15 D 6-3



TYPICAL CROSSOVER ROADWAY DIMENSIONS



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- TYPE "A" WARNING LIGHT (FLASHING)
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- REMOVING PAVEMENT MARKINGS
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

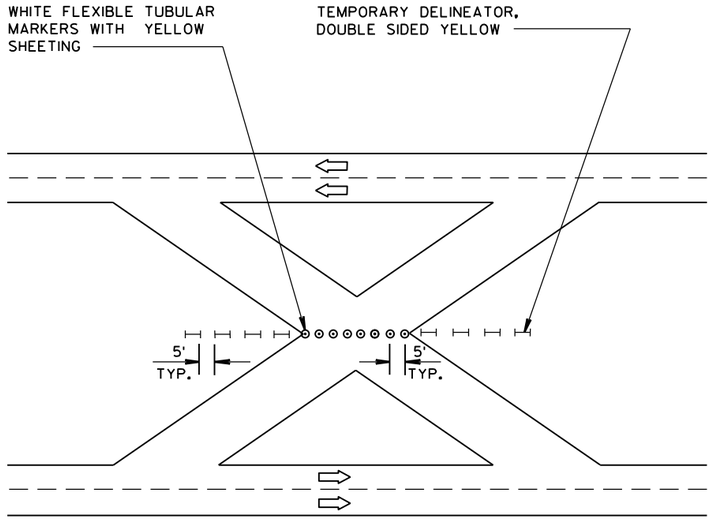
TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER AND TEMPORARY PAVEMENT MARKING WHERE USED.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.



PROTECTION OF CROSSOVER NOT IN USE WHEN CONSTRUCTION IS NOT TAKING PLACE

TRAFFIC CONTROL, SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
SIGN
FHWA

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LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

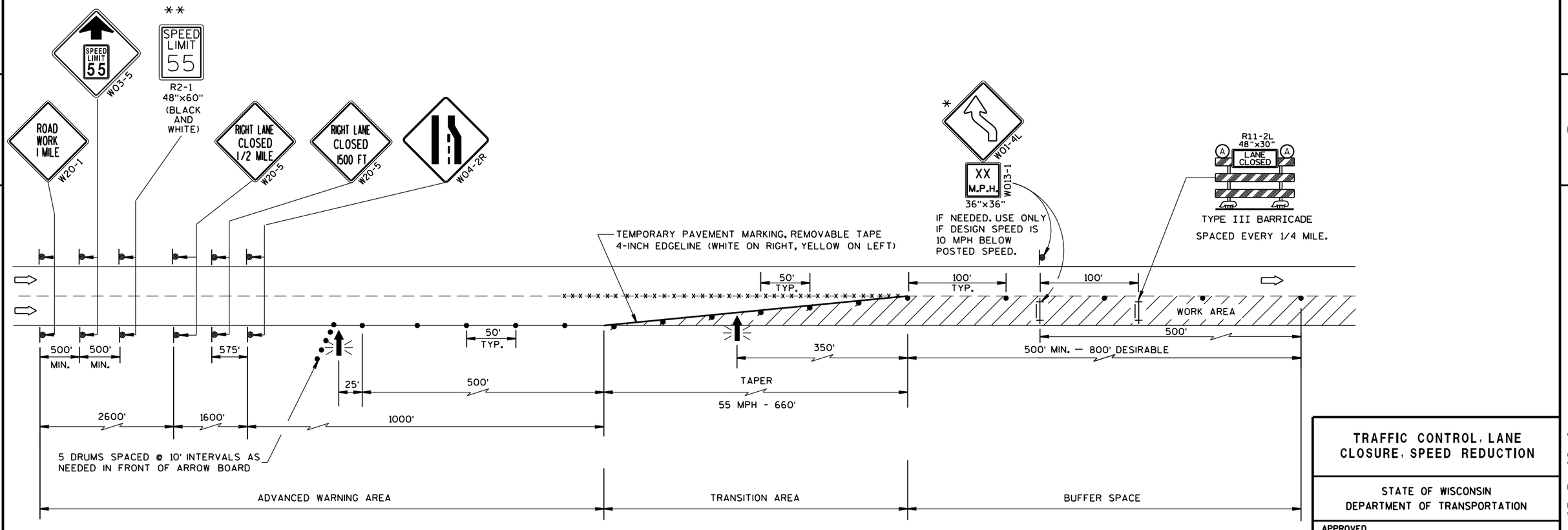
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (W01-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.

** A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES. INCLUDE A 65 MPH RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIREABLE) BEYOND THE "END OF ROADWORK" SIGN.



TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3-2014 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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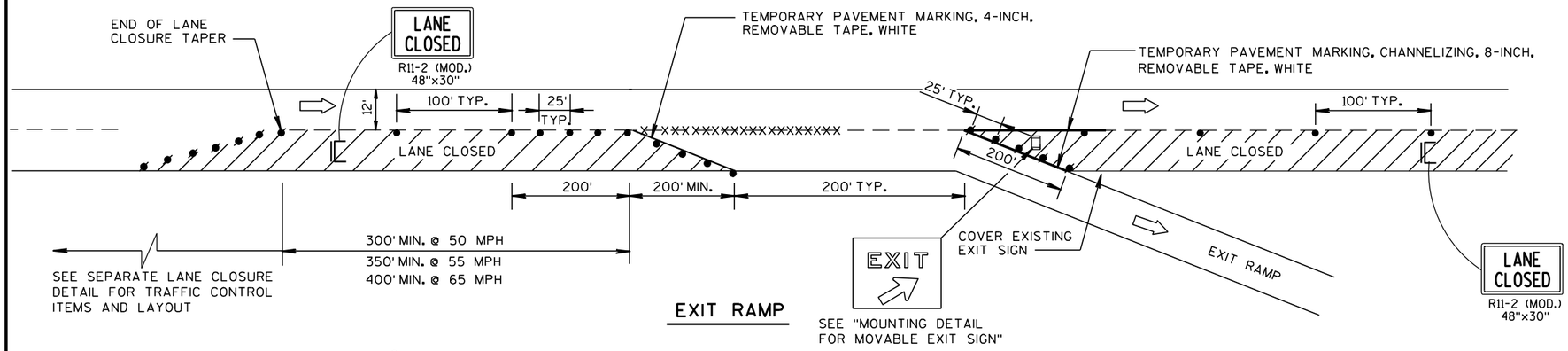
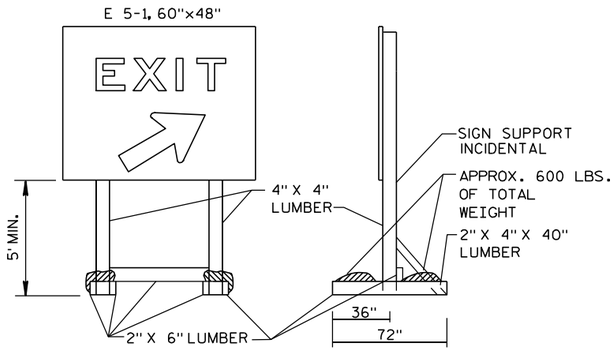
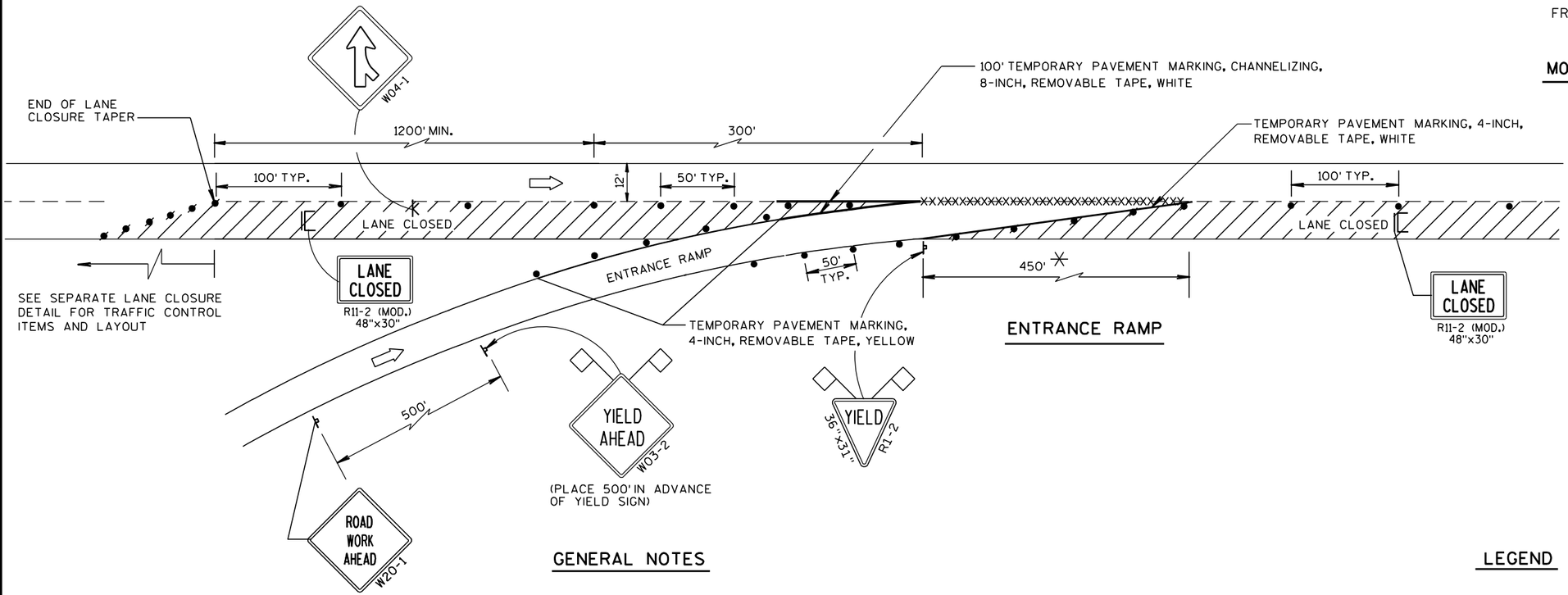


EXIT RAMP



NOTE: ALL LUMBER DIMENSIONS ARE NOMINAL

MOUNTING DETAIL FOR MOVABLE EXIT SIGN



ENTRANCE RAMP

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

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.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2 (MOD.) "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

✳ LENGTH OF OPENING MAY BE REDUCED TO 150 FEET DURING STAGING OF WORK IN IMMEDIATE AREA OF RAMP TAPER.

LEGEND

- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT
- TRAFFIC CONTROL, DRUM
- TRAFFIC CONTROL, DRUM WITH WARNING LIGHT, TYPE C (STEADY-BURN)
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE (8' EQUIVALENT) WITH SIGN
- FLAGS, 16"x16" MIN., ORANGE
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/24/2000
DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MAR 595 INEER
FHWA

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S.D.D. 15 D 15-1

GENERAL NOTES

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

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

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

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

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.

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

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

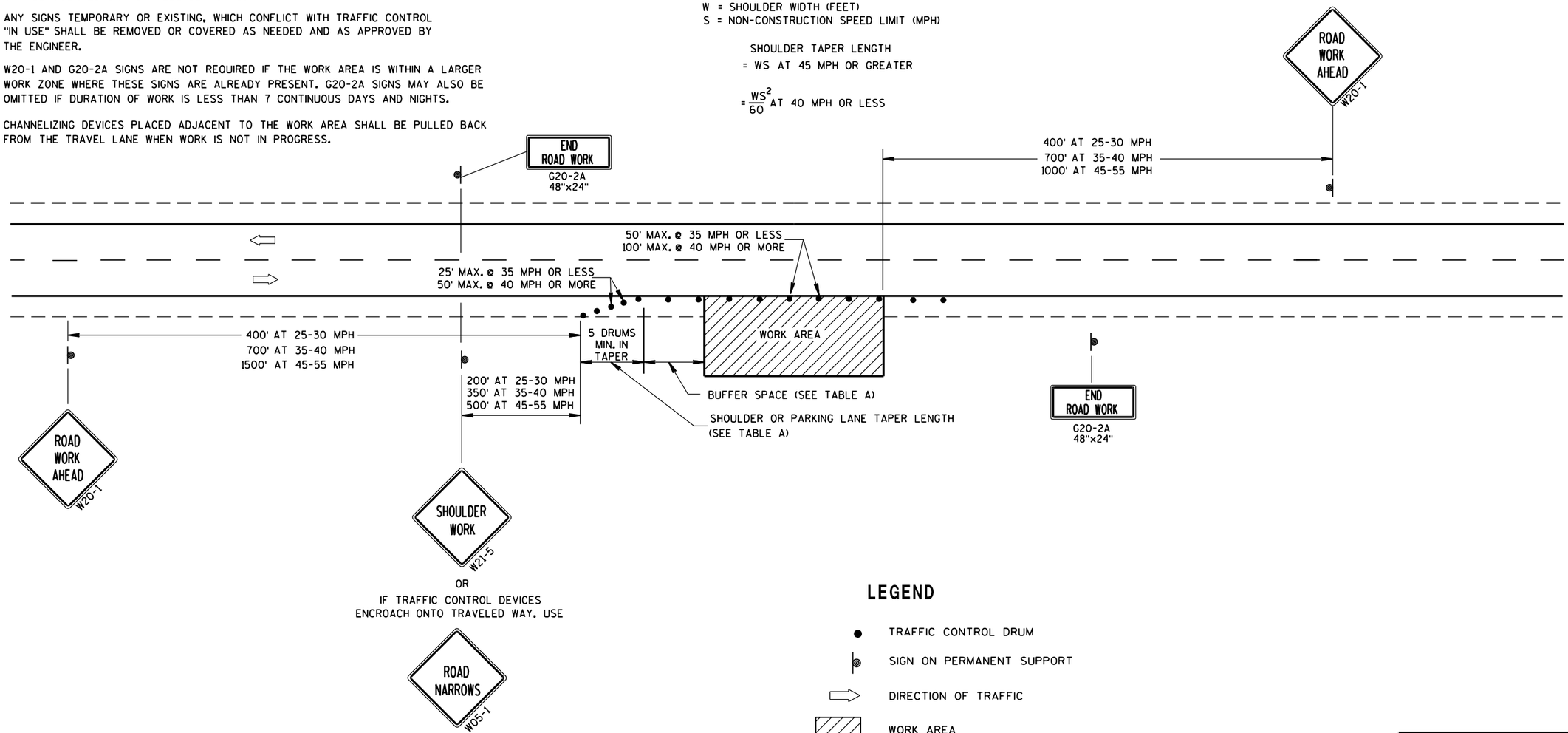
TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

$= \frac{WS^2}{60}$ AT 40 MPH OR LESS



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

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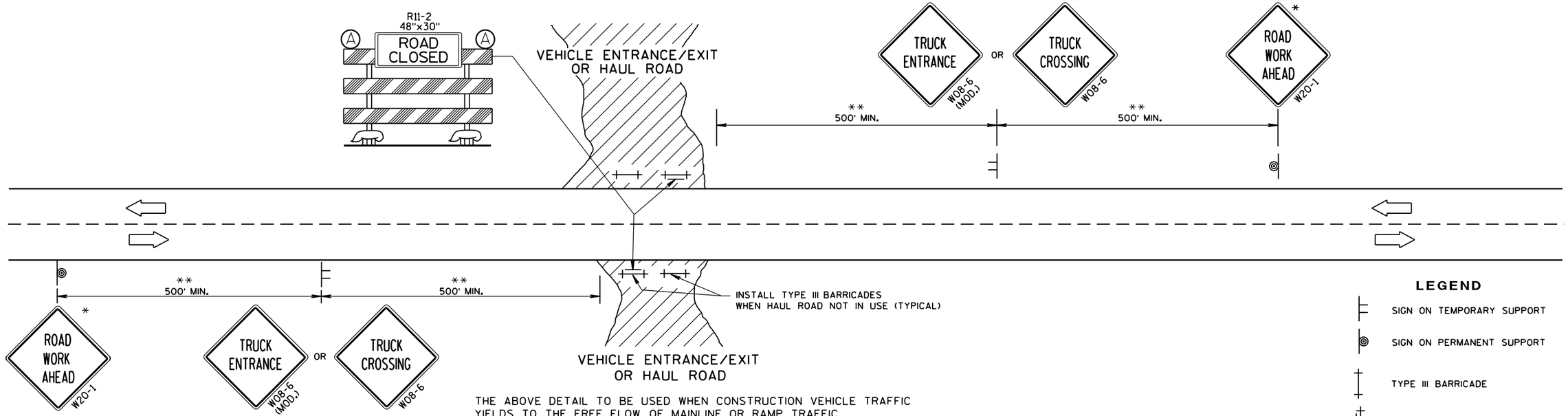


THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

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

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

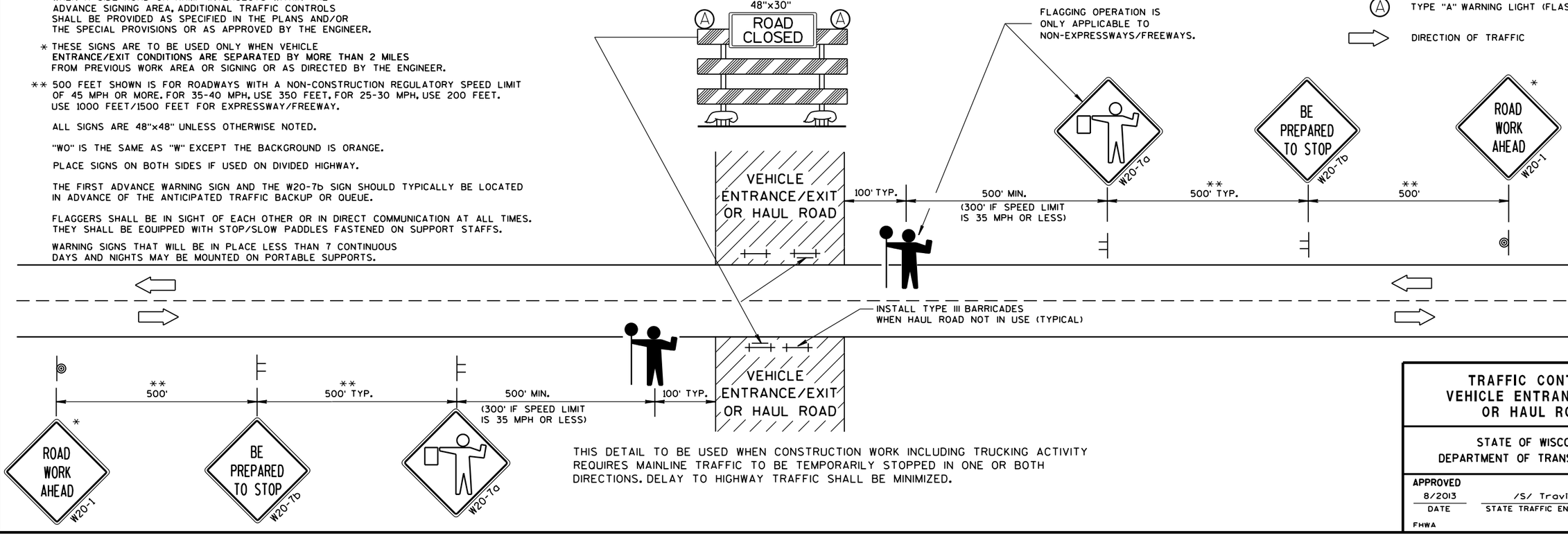
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

THE FIRST ADVANCE WARNING SIGN AND THE W20-7b SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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.

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



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013	/S/ Travis Feltes	
DATE	STATE TRAFFIC ENGINEER	IGN

FHWA

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S	BUFFER SPACE (DESIRABLE)
25	55'
30	85'
35	120'
40	170'
45	220'
50	280'
55	335'

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

END ROAD WORK
G20-2A
48"x24"

BEGIN TEMPORARY PAVEMENT MARKING, 4-INCH SOLID YELLOW CENTERLINE ✳✳

NO PASSING ZONE
W14-3
48"x36"

1000'
500'
400'
500'
200'
50'
50'
25' TYP.

W01-6
48"x24"
✳✳✳

R11-2
48"x30"
ROAD CLOSED
TYPE III BARRICADE

FOR BRIDGE OR CULVERT REPLACEMENTS SUBSTITUTE
BRIDGE OUT
R11-2B
48"x30"

W01-6
48"x24"
TYPE III BARRICADE

W01-6
48"x24"
TYPE III BARRICADE

W01-3L
W013-1
XX M.P.H.
24"x24"

OR

W01-4L
W013-1
XX M.P.H.
24"x24"

ROAD WORK 1000 FT
W20-1

ROAD WORK AHEAD
W20-1

W01-6
48"x24"
✳✳✳

400'

END TEMPORARY PAVEMENT MARKING, 4-INCH SOLID YELLOW CENTERLINE ✳✳

50'
50'
25' TYP.

ROAD CLOSURE OR BRIDGE/CULVERT REPLACEMENT

BUFFER SPACE (SEE TABLE)

WORK AREA

BUFFER SPACE (SEE TABLE)

W01-6
48"x24"
TYPE III BARRICADE

TEMPORARY STEEL PLATE BEAM GUARD AND END TREATMENT WHEN INCLUDED IN THE CONTRACT. FOR LAYOUT, SEE DETAILS ELSEWHERE IN THE PLAN.

W5-52L
12"x36"

W5-52R
12"x36"

25' TYP.

W01-6
48"x24"
✳✳✳

200'
500'
500'
1000'

ROAD WORK AHEAD
W20-1

ROAD WORK 1000 FT
W20-1

BEGIN TEMPORARY PAVEMENT MARKING, 4-INCH WHITE EDGELINE

25' TYP.

W01-4R
W013-1
XX M.P.H.
24"x24"

OR

W01-3R
W013-1
XX M.P.H.
24"x24"

W01-6
48"x24"

W01-6
48"x24"
✳✳✳

W5-52R
12"x36"

W5-52L
12"x36"

W01-4R
W013-1
XX M.P.H.
24"x24"

OR

W01-3R
W013-1
XX M.P.H.
24"x24"

END TEMPORARY PAVEMENT MARKING, 4-INCH WHITE EDGELINE

TEMPORARY PAVEMENT MARKING, 4-INCH WHITE EDGELINES. (USE REMOVABLE TAPE WHERE TEMPORARY MARKING CROSSES PERMANENT PAVEMENT)

25' TYP.

W01-6
48"x24"

TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW CENTERLINE AND 2-WAY YELLOW RAISED PAVEMENT MARKERS AT 25' SPACING. USE REMOVABLE TAPE WHERE TEMPORARY MARKING CROSSES PERMANENT PAVEMENT.

W01-4L
W013-1
XX M.P.H.
24"x24"

OR

W01-3L
W013-1
XX M.P.H.
24"x24"

NO PASSING ZONE
W14-3
48"x36"

END ROAD WORK
G20-2A
48"x24"

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.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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

EQUIPMENT, VEHICLES, OR MATERIAL SHOULD NOT BE STORED IN BUFFER SPACE.

✳ IF ADVISORY SPEED IS GREATER THAN 30 MPH, USE THE W01-4 SIGN. IF ADVISORY SPEED IS 30 MPH OR LESS, USE THE W01-3 SIGN.

✳✳ WHEN THE DISTANCE TO/FROM THE NEXT CLOSEST NO-PASSING ZONE IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES AS INDICATED IN THE SPECIFICATIONS, THE TWO ZONES SHALL BE CONNECTED.

✳✳✳ OMIT THESE W01-6 SIGNS IF THE ADVISORY SPEED OF THE CURVE IS GREATER THAN 30 MPH.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY-BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- TEMPORARY DELINEATOR, (WHITE) (SINGLE DELINEATOR)
- TEMPORARY RAISED PAVEMENT MARKERS (TWO-WAY YELLOW)
- XXX REMOVE PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- TEMPORARY STEEL PLATE BEAM GUARD AND END TREATMENT
- WORK AREA

TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

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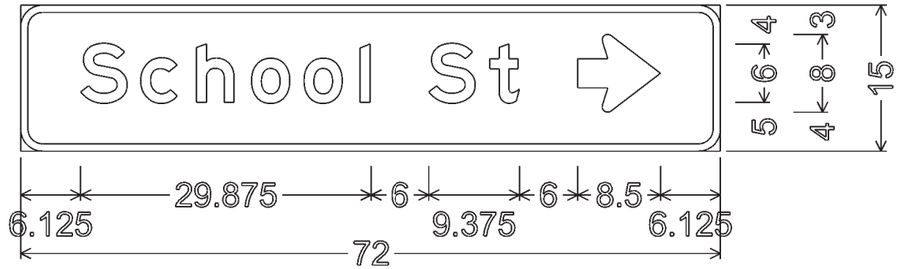
S.D.D. 15 D 31-2



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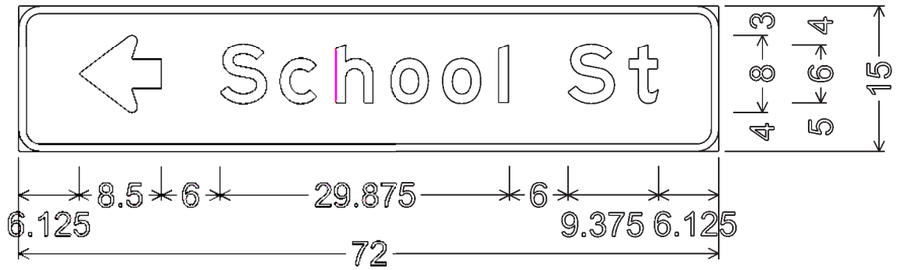
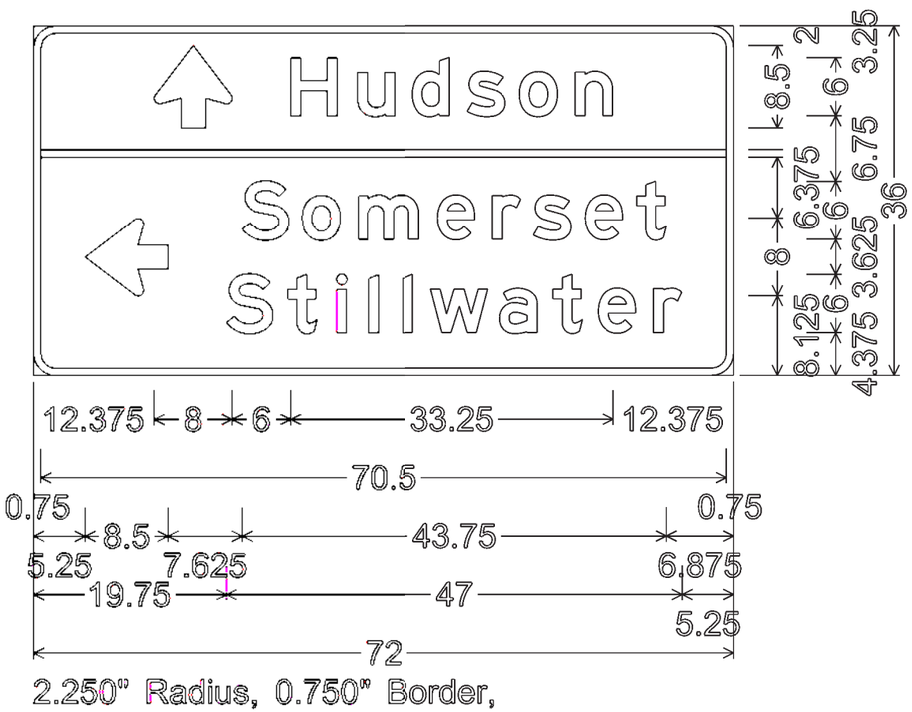


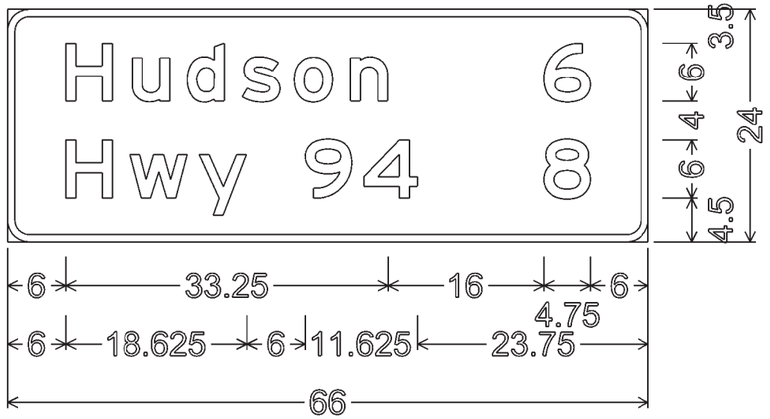
2.250" Radius, 0.750" Border,



2.250" Radius, 0.750" Border,

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



2.250" Radius, 0.750" Border,

7

7

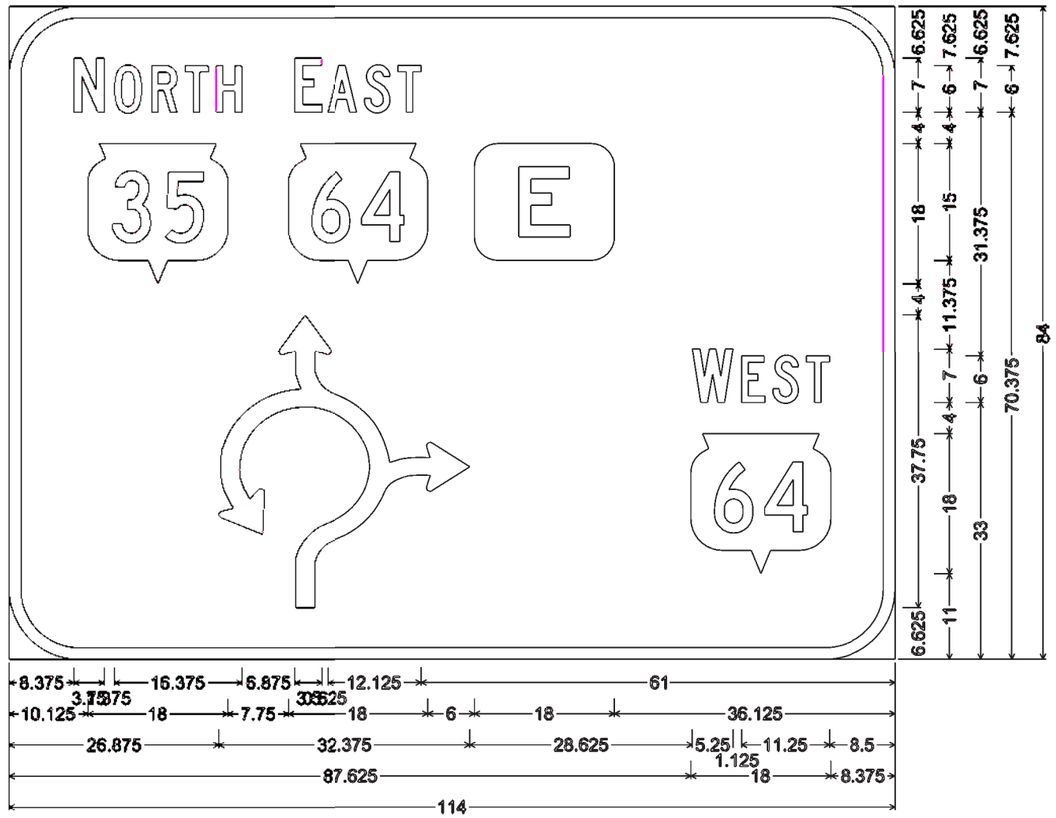
PROJECT NO: 8110-02-01	HWY: STH 64	COUNTY: ST CROIX	PERMANENT SIGNING	SHEET NO: 599	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 design work orders)\Work Order 002 (STH 64)\Civil3D\SheetsPlan\KL_Signing & Marking\Sign Detail_8110-02-01.dgn DATE: 2/26/2014 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

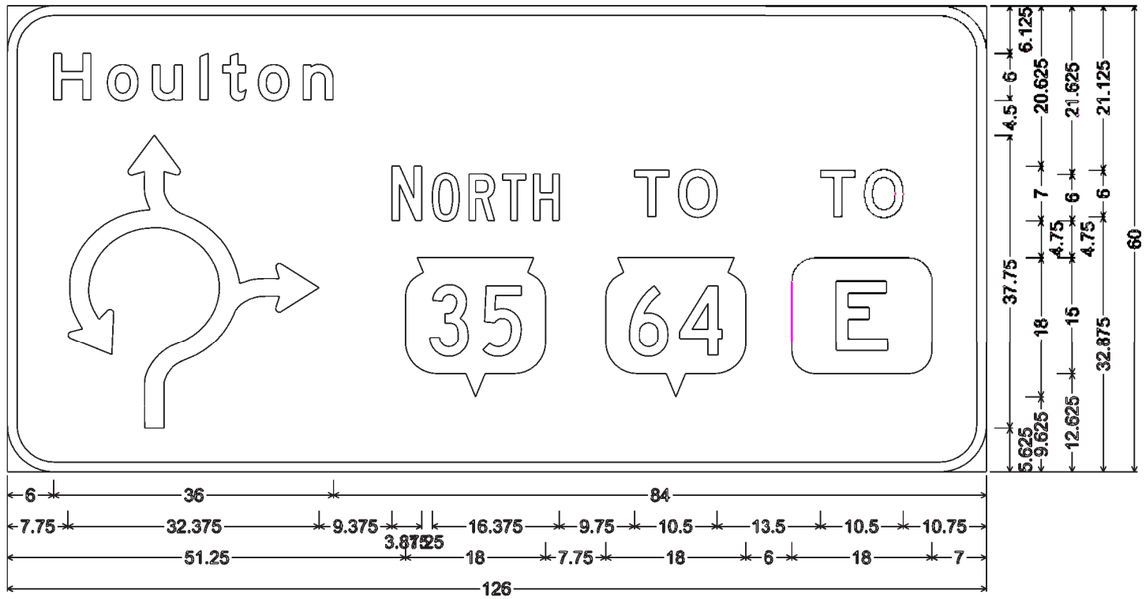
WISDOT/CADDS SHEET 42

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E except as noted



9.000" Radius, 1.500" Border, White on Green;
"NORTH" C; "EAST" C; State Highway 35 M1-56; State Highway 64 M1-56; Square County E M1-55-2;
"WEST" C; State Highway 64 M1-56;



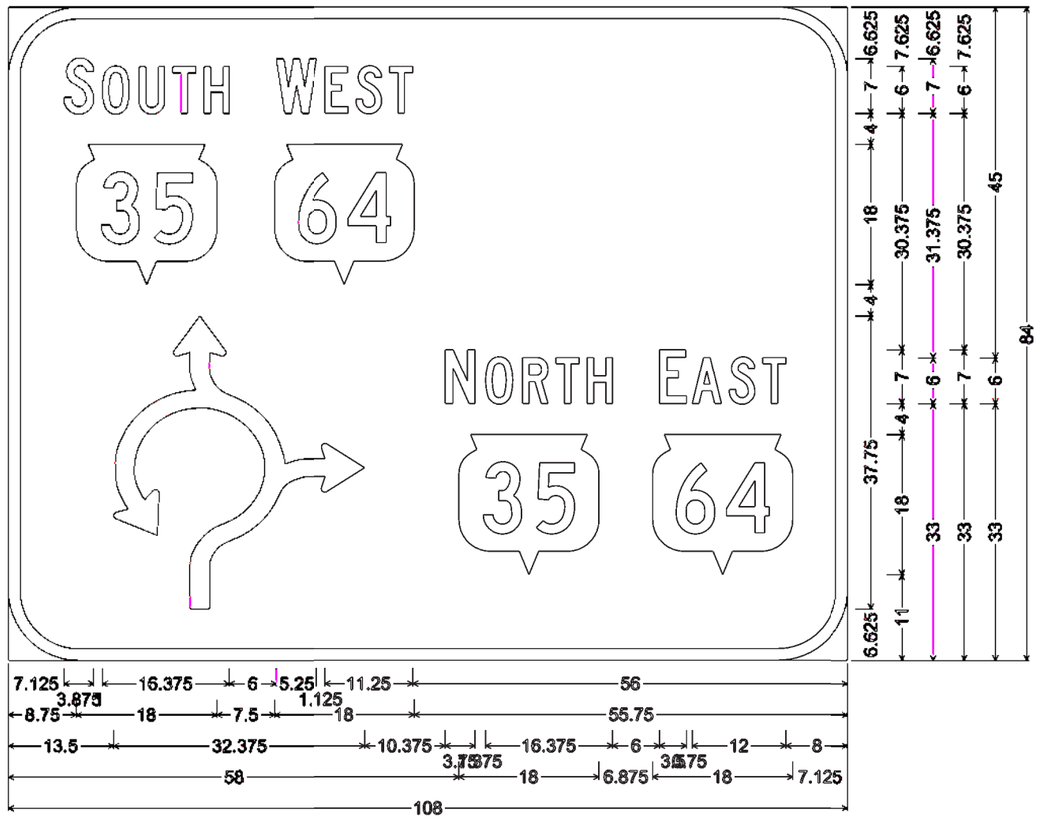
6.000" Radius, 1.250" Border, White on Green;
"Houlton" E; "NORTH" C; "TO" E; "TO" E; State Highway 35 M1-56; State Highway 64 M1-56;
Square County E M1-55-2;

7

7

PROJECT NO: 8110-02-01	HWY: STH 64	COUNTY: ST CROIX	PERMANENT SIGNING	SHEET NO: 600	E

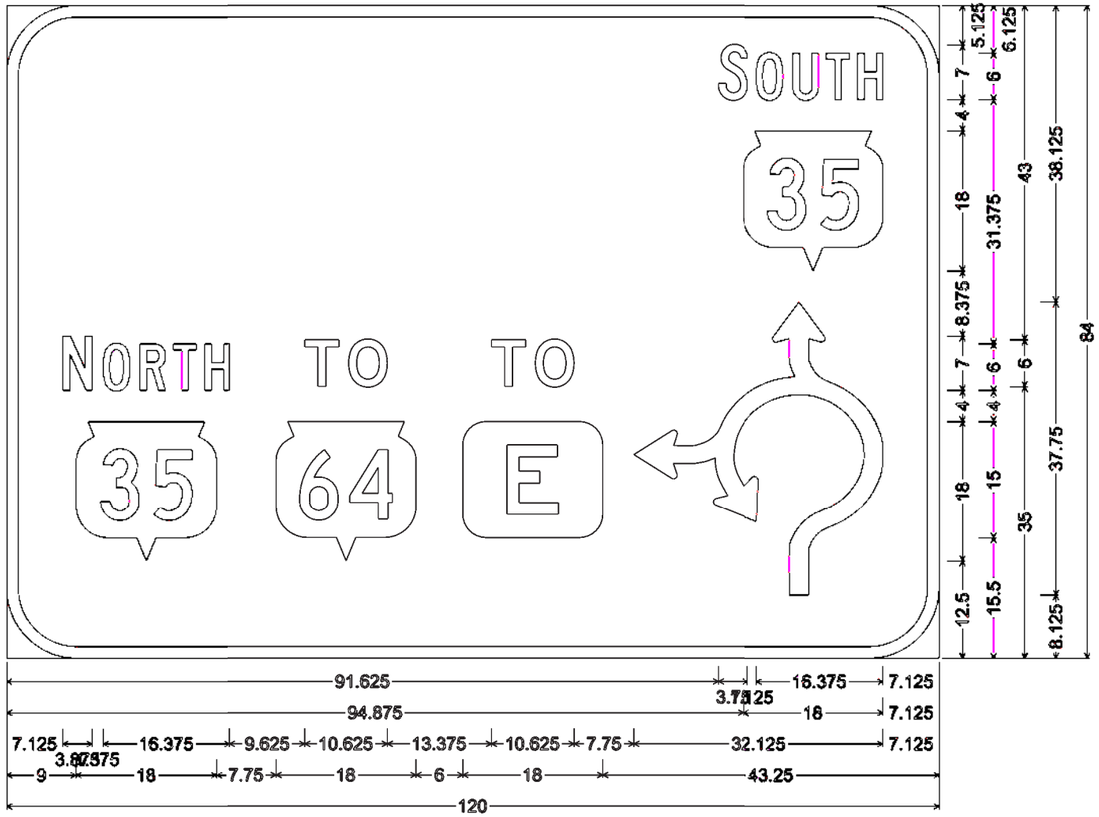
FILE NAME : G:\WDOTCO\12029 (2012-2014 design work orders)\Work Order 002 (STH 64)\Civil3D\SheetsPlan\KL_Signing & Marking\Sign Detail_SHEET-02.dwg PLOT DATE : 2014
PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :



9.000" Radius, 1.500" Border, White on Green;
"SOUTH" C; "WEST" C; State Highway 35 M1-56; State Highway 64 M1-56; "NORTH" C;
"EAST" C; State Highway 35 M1-56; State Highway 64 M1-56;

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E except as noted



9.000" Radius, 1.500" Border, White on Green;
"SOUTH" C; State Highway 35 M1-56; "NORTH" C; "TO" E; "TO" E; State Highway 35 M1-56;
State Highway 64 M1-56; Square County E M1-55-2;

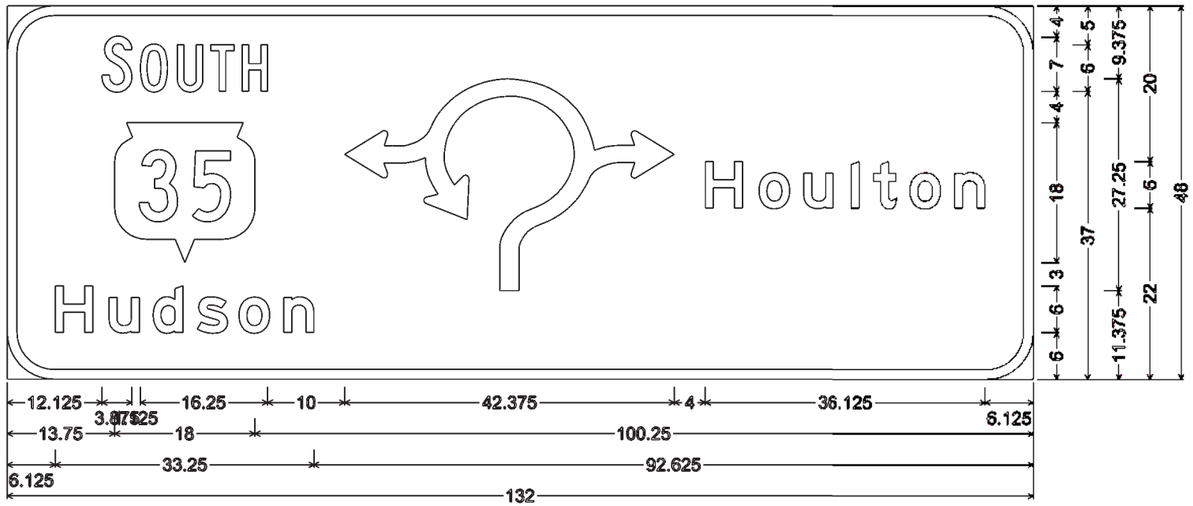
7

7

PROJECT NO: 8110-02-01	HWY: STH 64	COUNTY: ST CROIX	PERMANENT SIGNING	SHEET NO: 601	E

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E except as noted



6.000" Radius, 1.250" Border, White on Green;
"SOUTH" C; State Highway 35 M1-56; "Hudson" E; "Houlton" E;

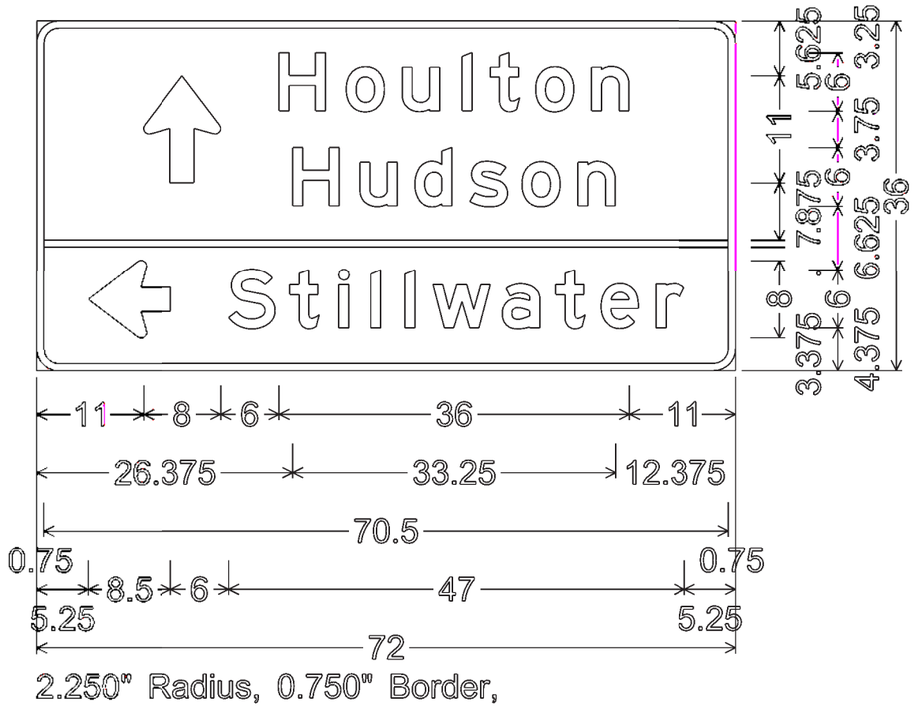
7

7

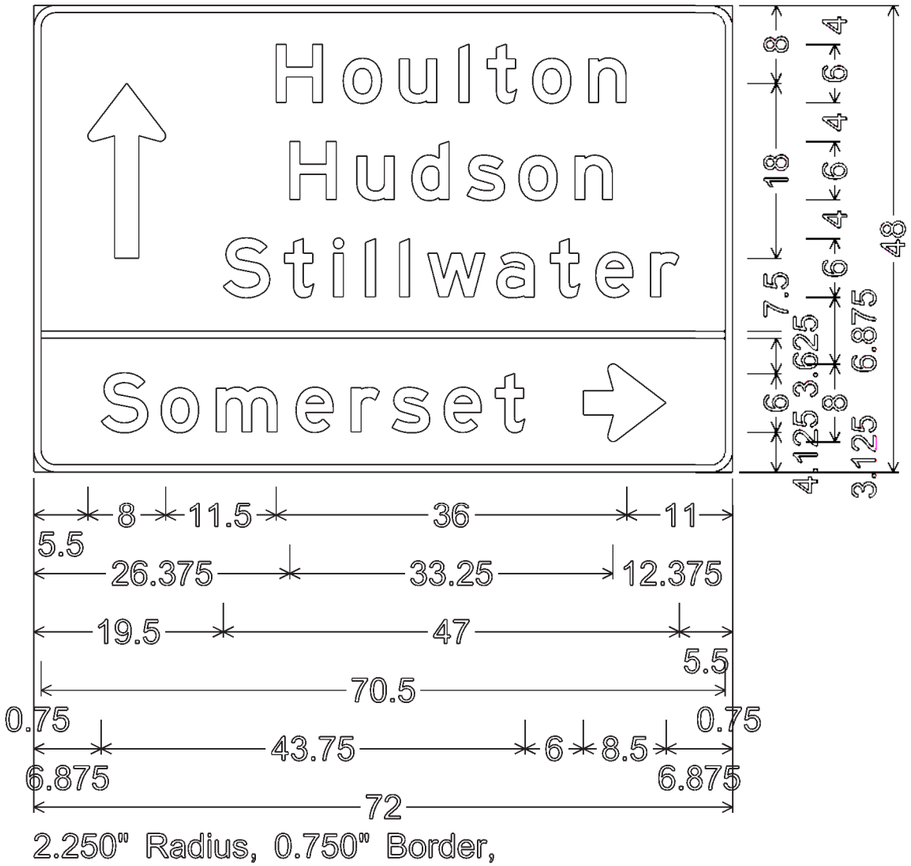
PROJECT NO: 8110-02-01	HWY: STH 64	COUNTY: ST CROIX	PERMANENT SIGNING	SHEET NO: 602 E

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



2.250" Radius, 0.750" Border,

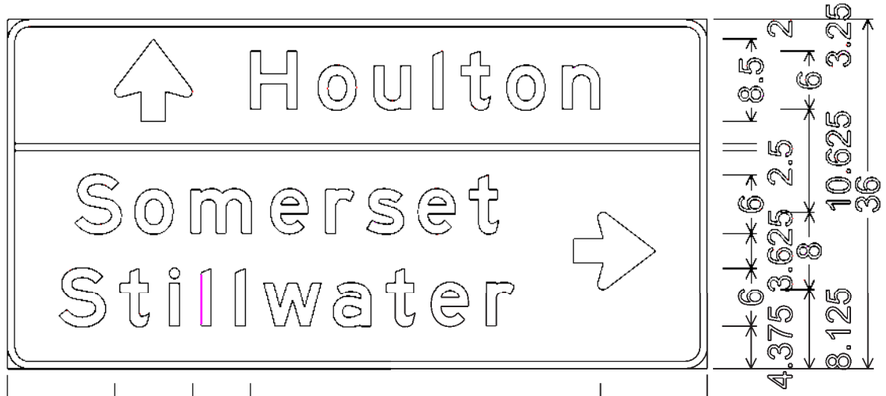


2.250" Radius, 0.750" Border,

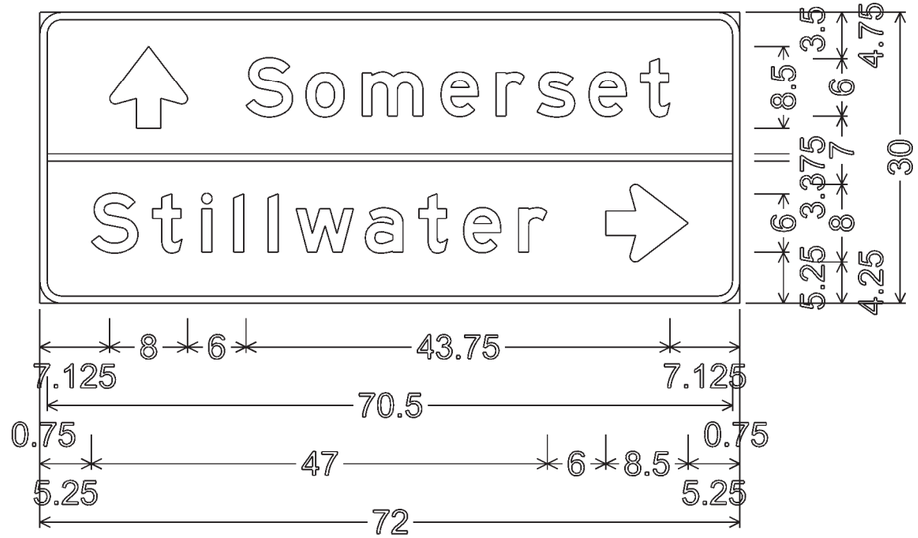
PROJECT NO: 8110-02-01	HWY: STH 64	COUNTY: ST CROIX	PERMANENT SIGNING	SHEET NO: 603	E

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



2.250" Radius, 0.750" Border,



2.250" Radius, 0.750" Border,

2.250" Radius, 0.750" Border,

PROJECT NO: 8110-02-01	HWY: STH 64	COUNTY: ST CROIX	PERMANENT SIGNING	SHEET NO: 604	E

FILE NAME : G:\WDOTCO\12029 (2012-2014 design work orders)\Work Order 002 (STH 64)\Civil3D\SheetsPlan\KL_Signing & Marking\Sign Detail_8110-02-01.dgn PLOT DATE : 2014 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

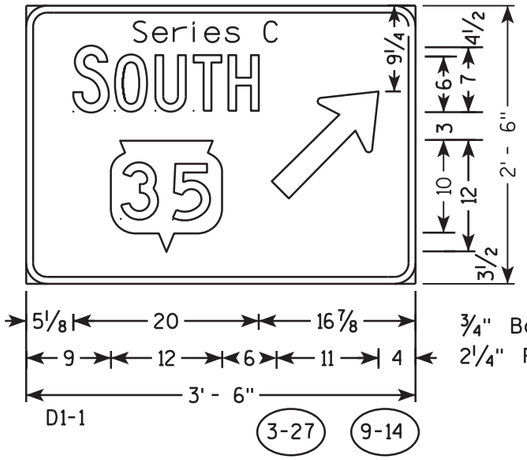
WISDOT/CADDS SHEET 42

7

7

NOTES

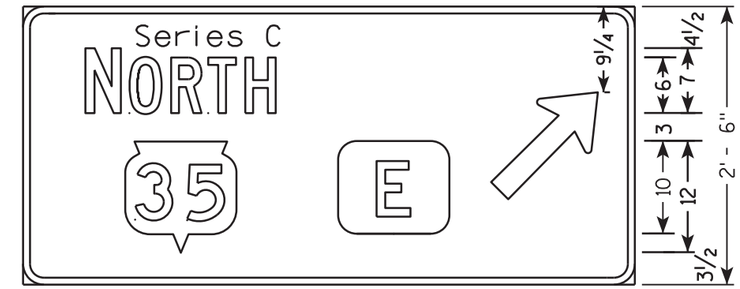
1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - C



¾" Border
2¼" Radius

D1-1

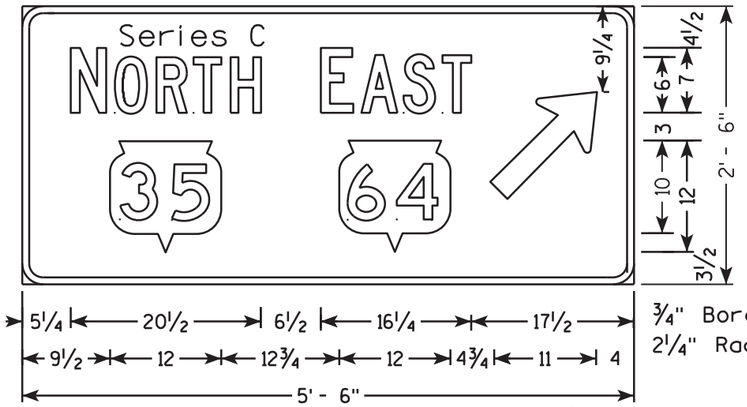
3-27 9-14



¾" Border
2¼" Radius

D1-2

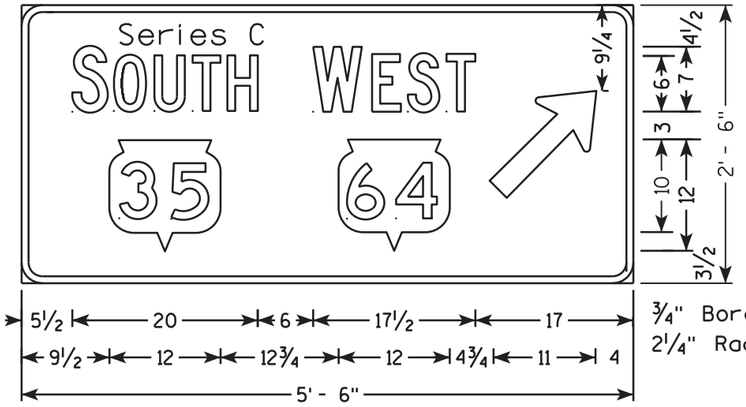
3-13



¾" Border
2¼" Radius

D1-2

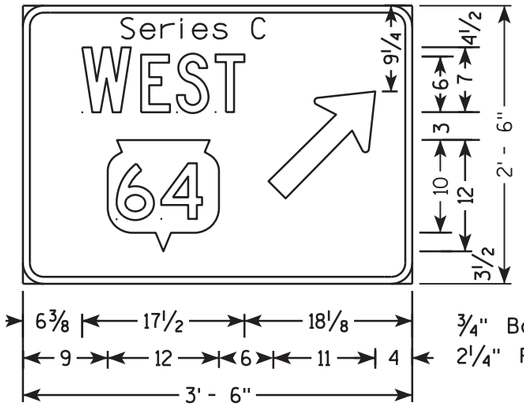
11-12



¾" Border
2¼" Radius

D1-2

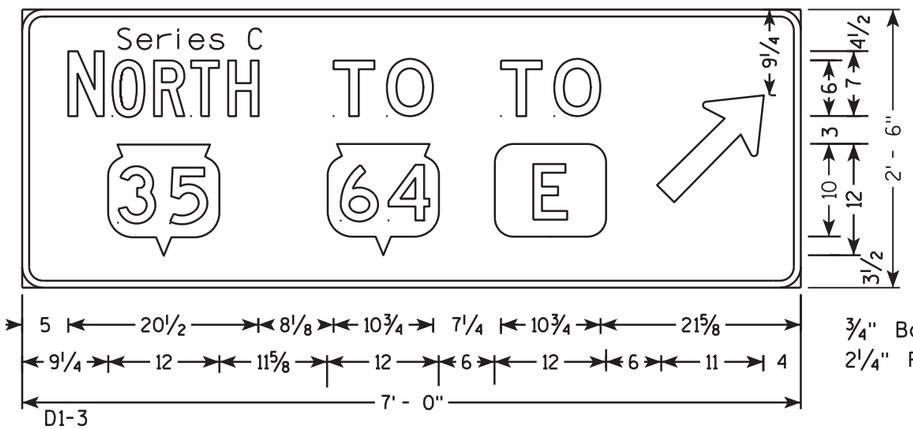
11-13



¾" Border
2¼" Radius

D1-1

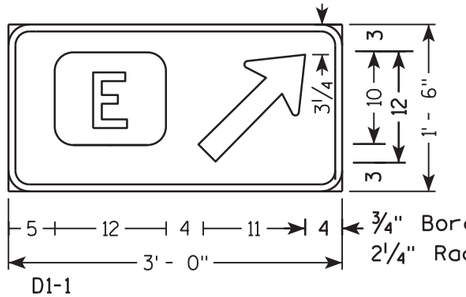
9-05



¾" Border
2¼" Radius

D1-3

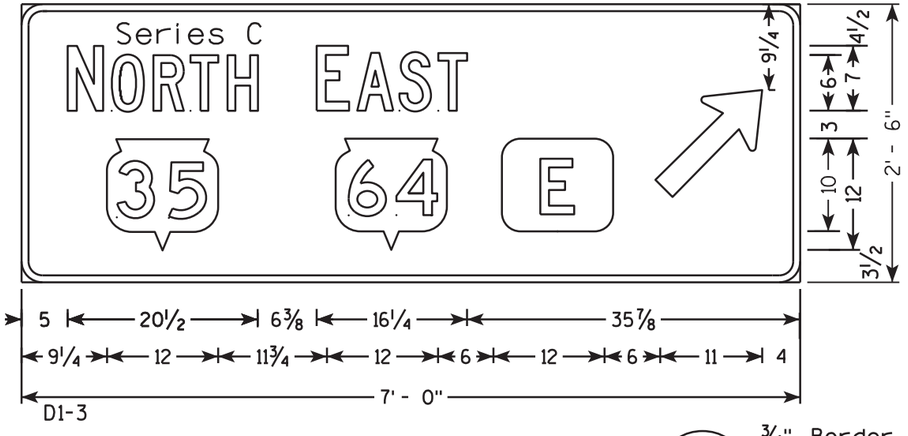
3-08



¾" Border
2¼" Radius

D1-1

11-05



¾" Border
2¼" Radius

D1-3

9-06

7

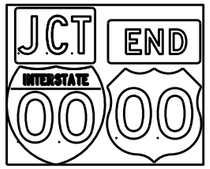
7

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST CROIX	PERMANENT SIGNING	SHEET NO:	E

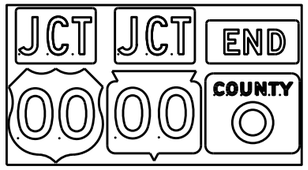
FILE NAME : C:\CAEFiles\Projects\tr_d6\6553A714.DGN PLOT DATE : 24-JUL-2014 16:24 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 16.345072:1.000000 WISDOT/CADDS SHEET 42

TYPICAL ASSEMBLIES

J1-1

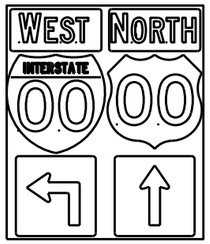


J1-2

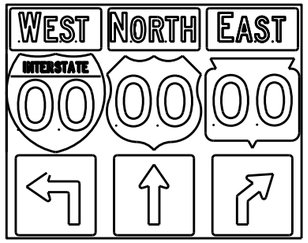


J1-3

J2-1



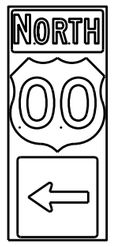
J2-2



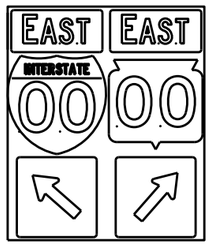
J2-3

JV

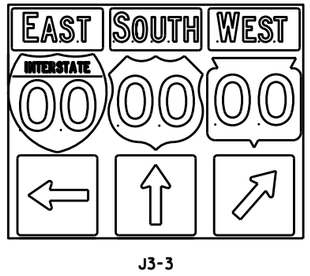
(Typical Vertical J-Assembly
See Note 10 and 11)



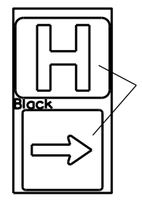
J3-1



J3-2

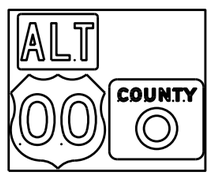


J3-3

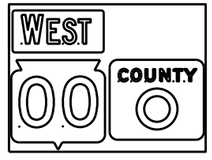


JH-1

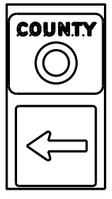
J4-1



J4-2



J4-2



J13-1

J12-1

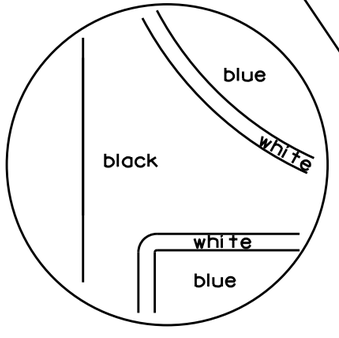
J32-1

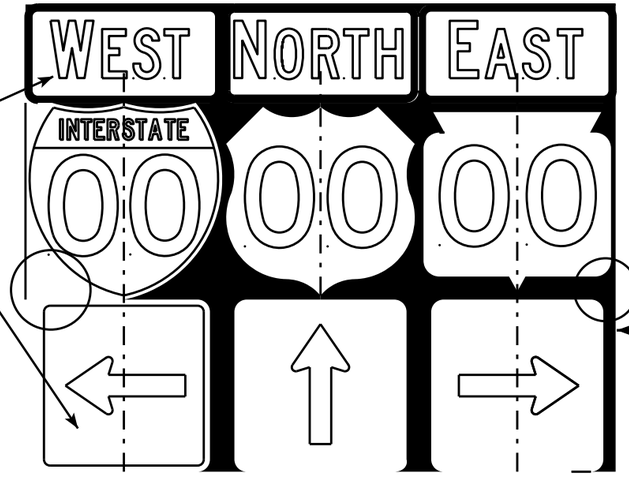
J33-1

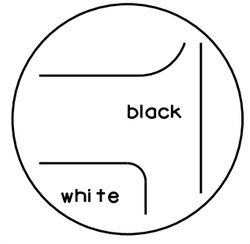
J23-1

J22-1

[blue background with interstate]







[black background]

NOTES

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

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

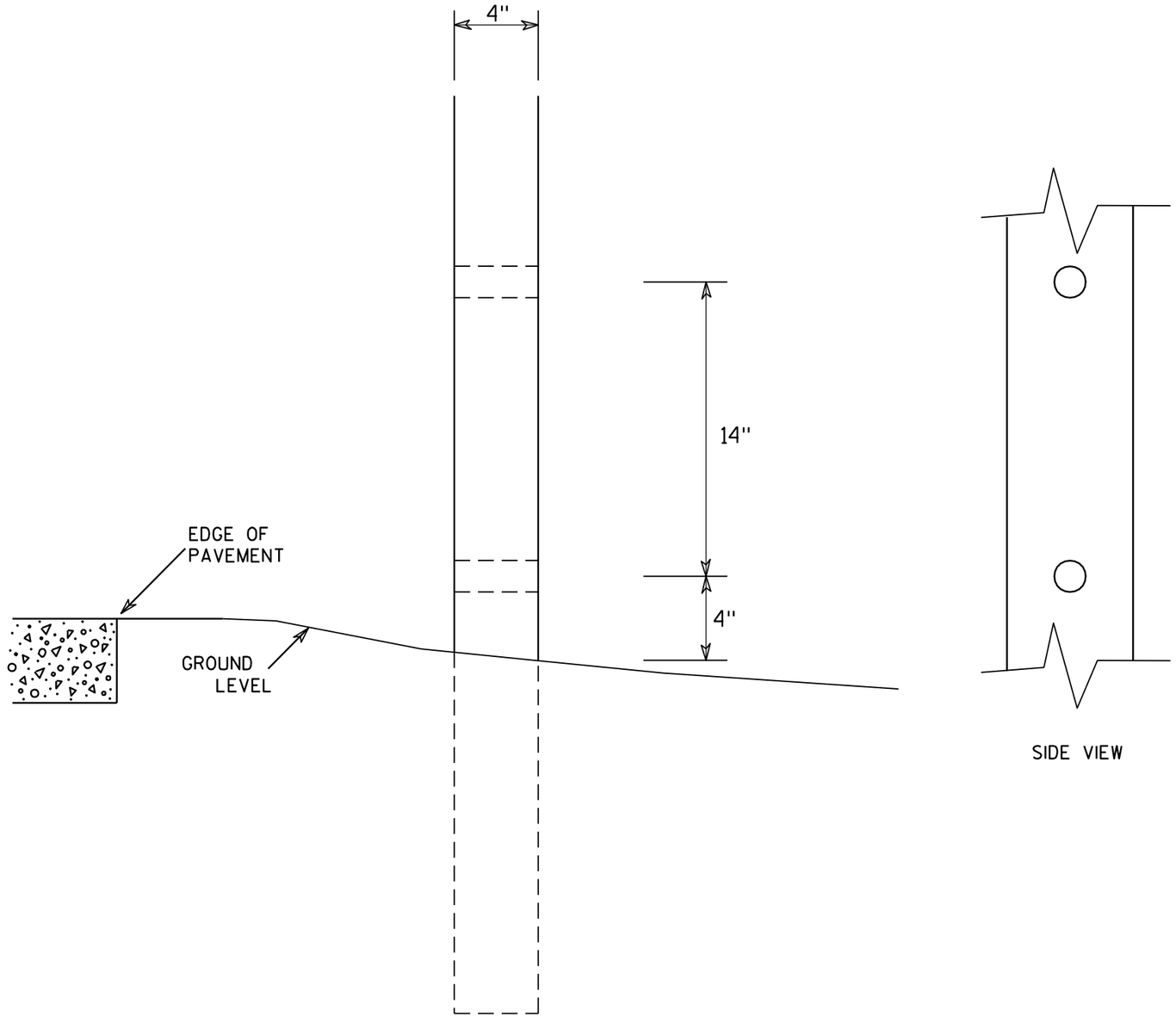
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

WISDOT/CADDS SHEET 42



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

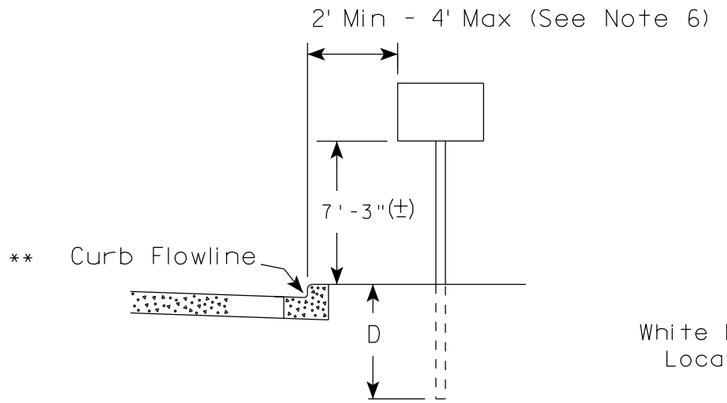
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

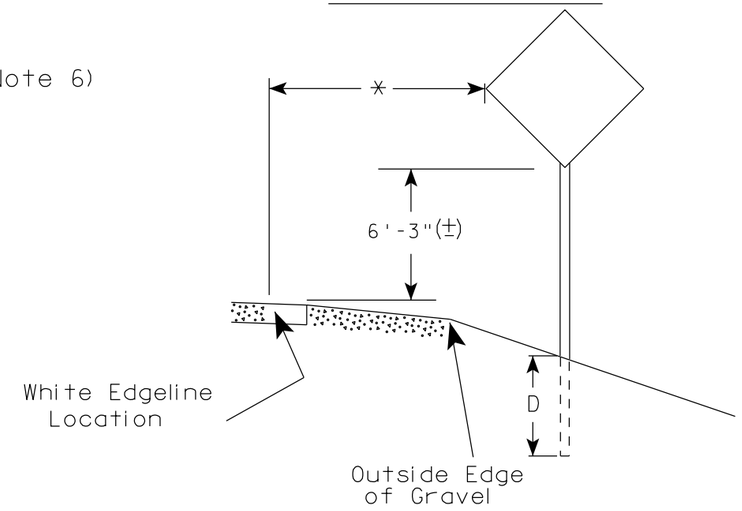
DATE 3/27/97 PLATE NO. A4-11.2

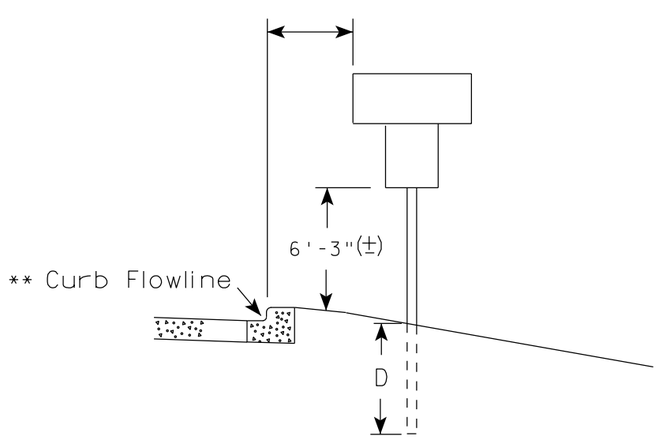
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 607	E

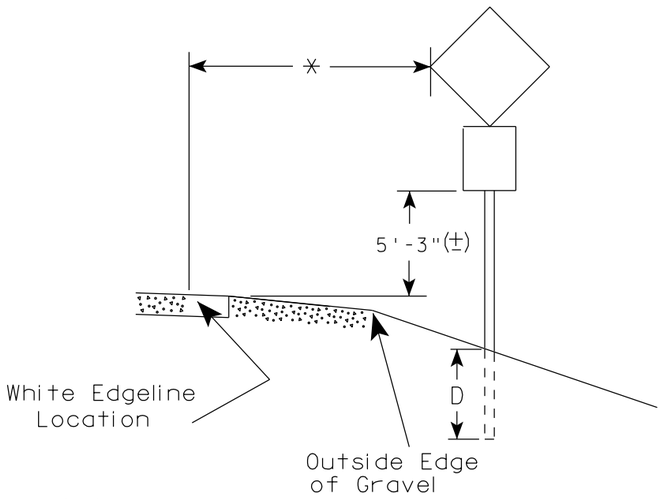
URBAN AREA



RURAL AREA (See Note 2)







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

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

GENERAL NOTES

1. Signs wider than 4 feet, 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 (A4-5) 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 stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed 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) & End of Rod Markers (W5-56 & W5-56A) 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'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

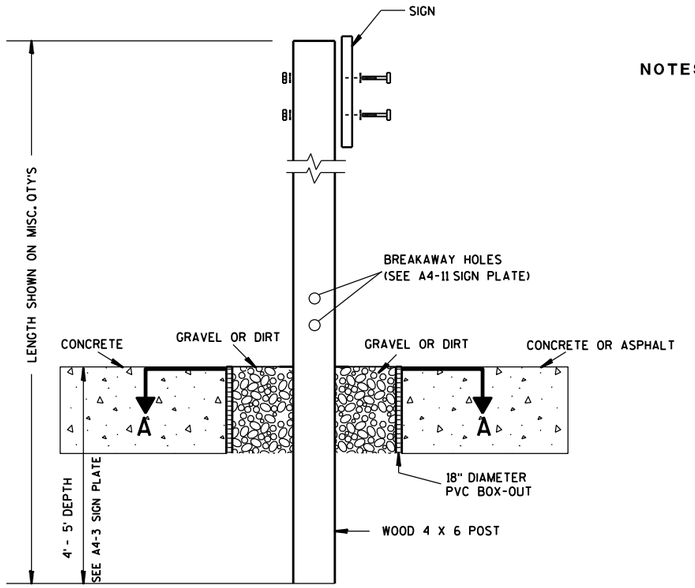
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/13 PLATE NO. A4-3.18

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7

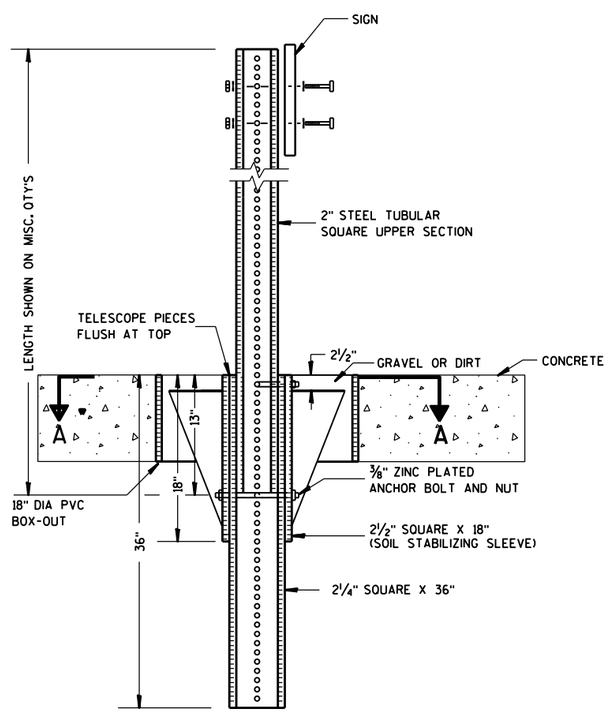
7



ELEVATION VIEW

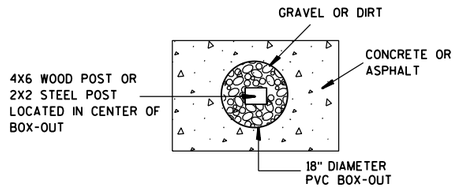
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

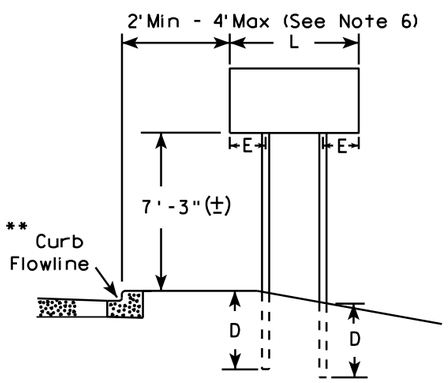
APPROVED Matthew R Rauch
for State Traffic Engineer

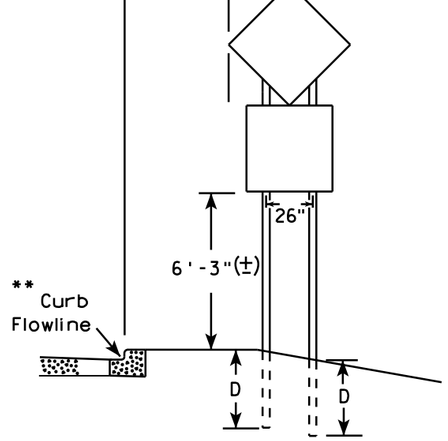
DATE 1/27/14 PLATE NO. A4-3B.1

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

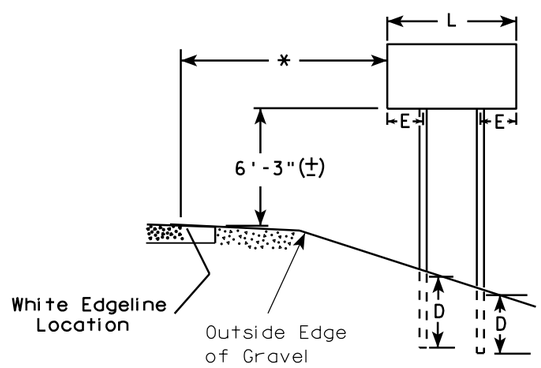
URBAN AREA

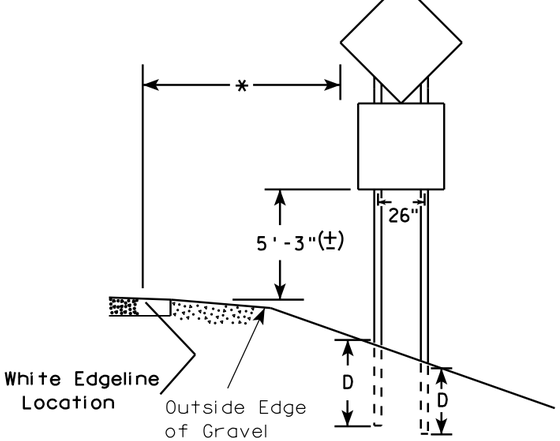




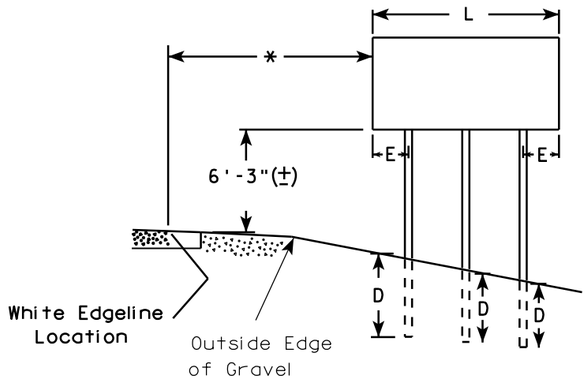
48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)





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 (A4-5) 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 stop signs (R1-1F) 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) & End of Road Markers (W5-56 & W5-56A) 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 or 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

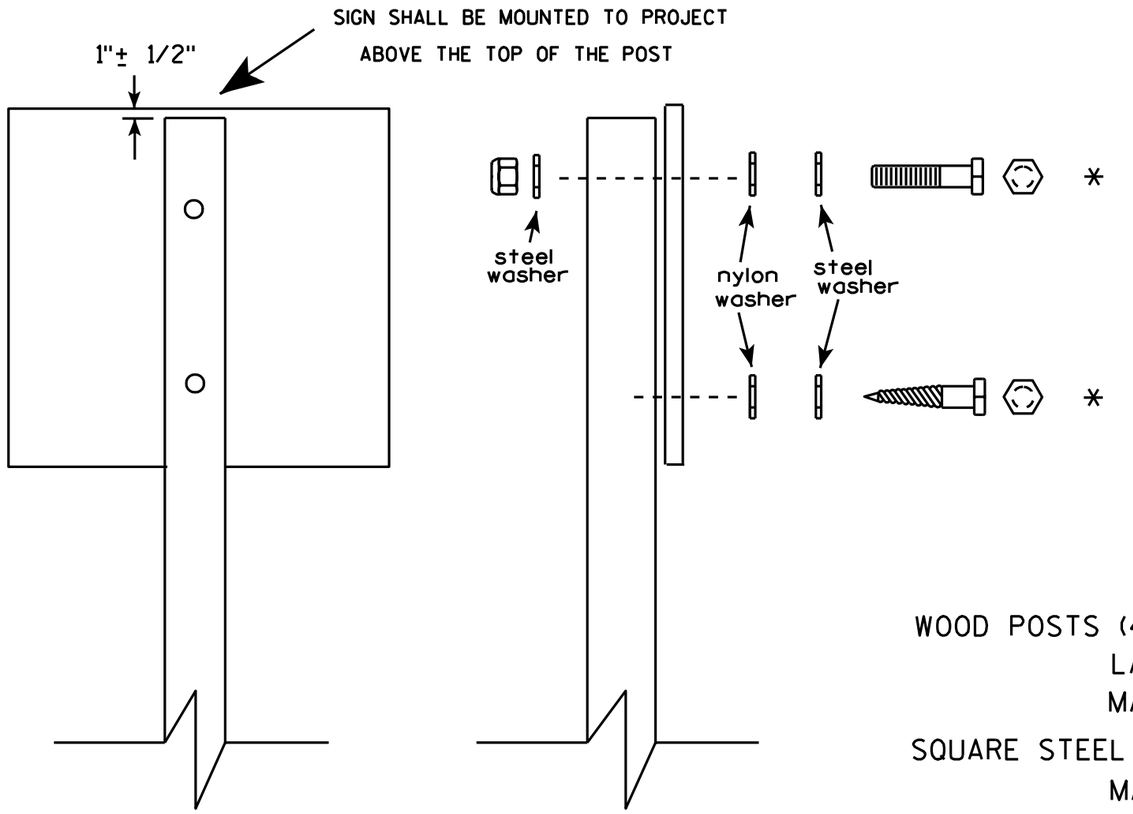
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/29/14 PLATE NO. A4-4 13
610

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 30-APR-2014 13:10 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 107.021305:1.000000

7 7



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

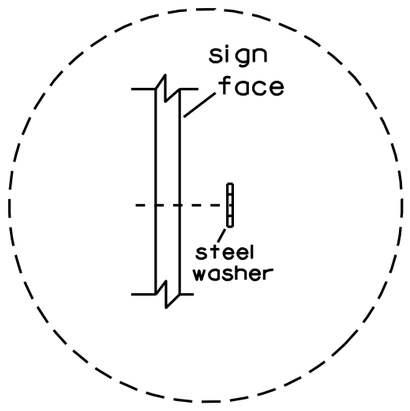
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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.



Washer Placement when Sign Has Other Than Type H or Type F Face

* 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 3/23/10 PLATE NO. A4-8.7

7

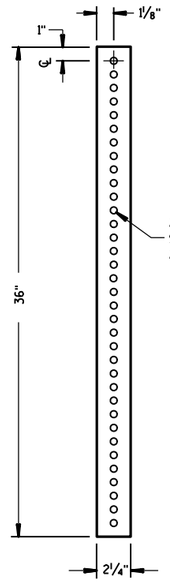
7

PROJECT NO:

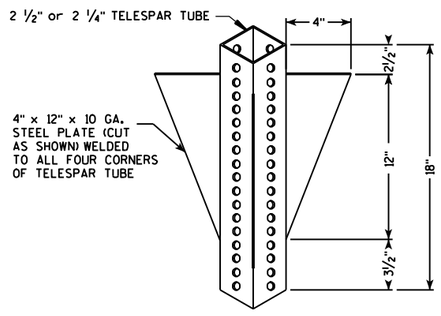
SHEET NO: 611 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

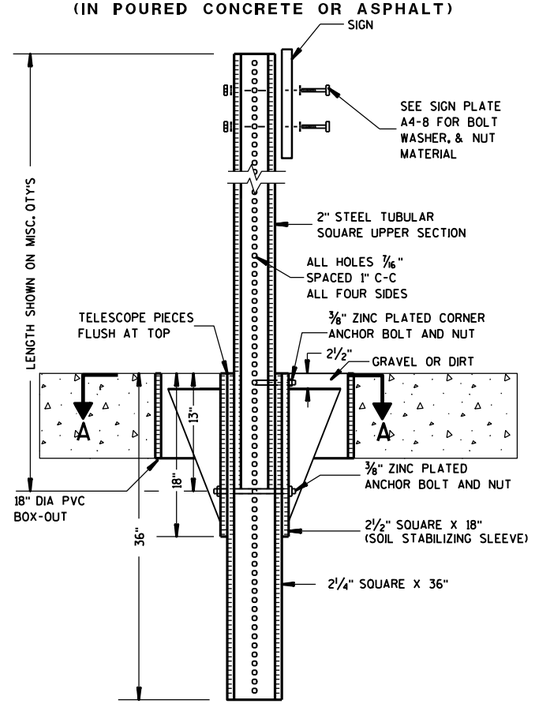
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



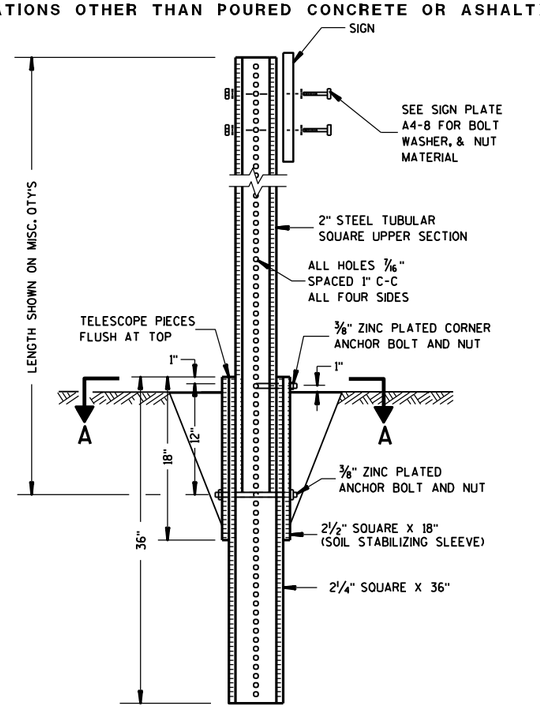
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

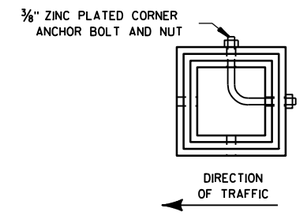


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





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

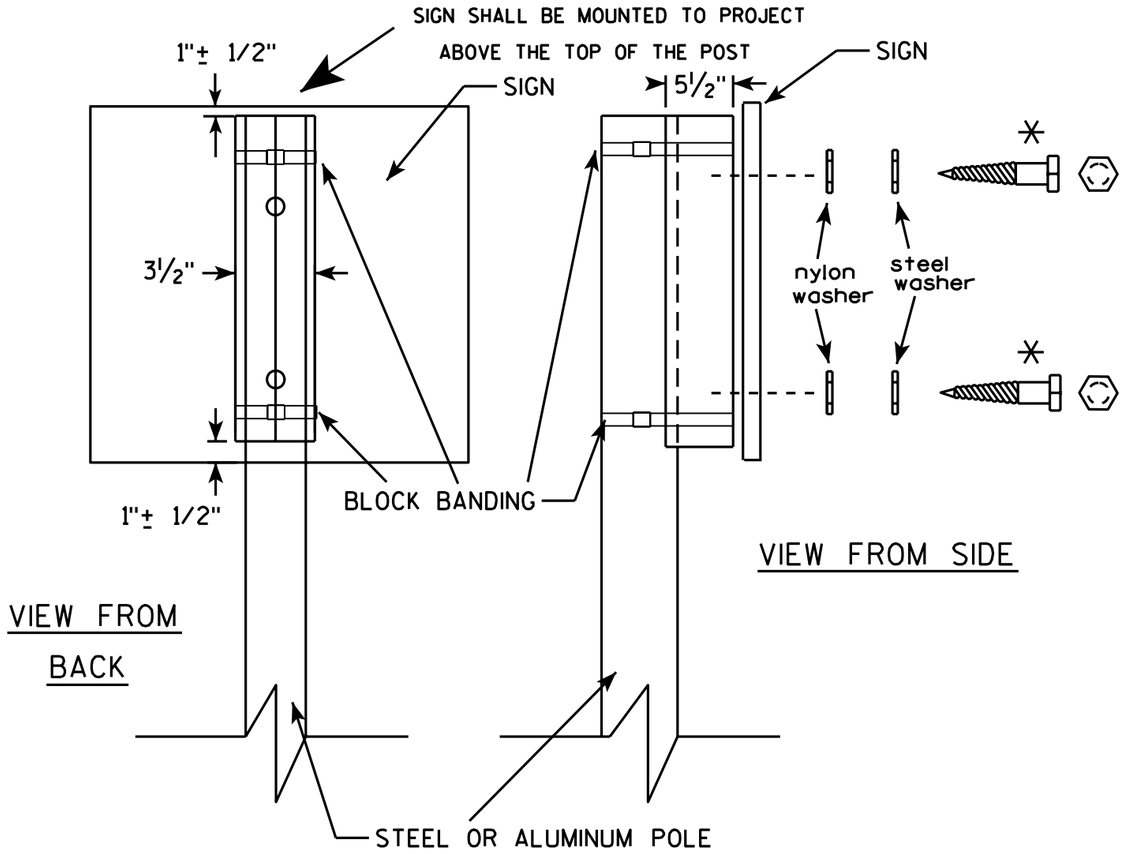
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

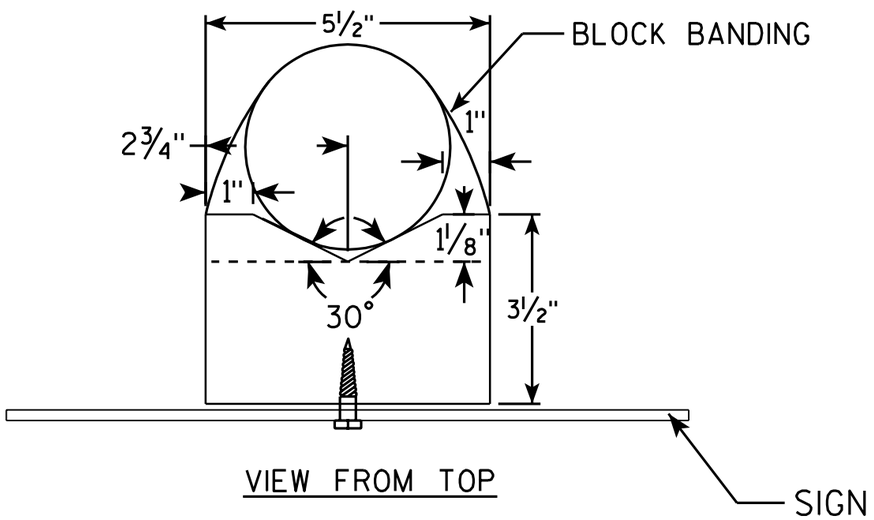
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 5/30/12 PLATE NO. A4-9.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 612	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

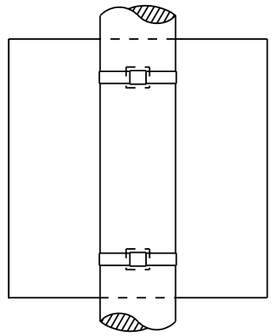
DATE 7/12/07 PLATE NO. A5-10.1

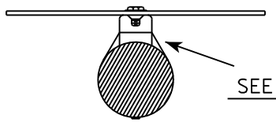
PROJECT NO:

SHEET NO: 613 E

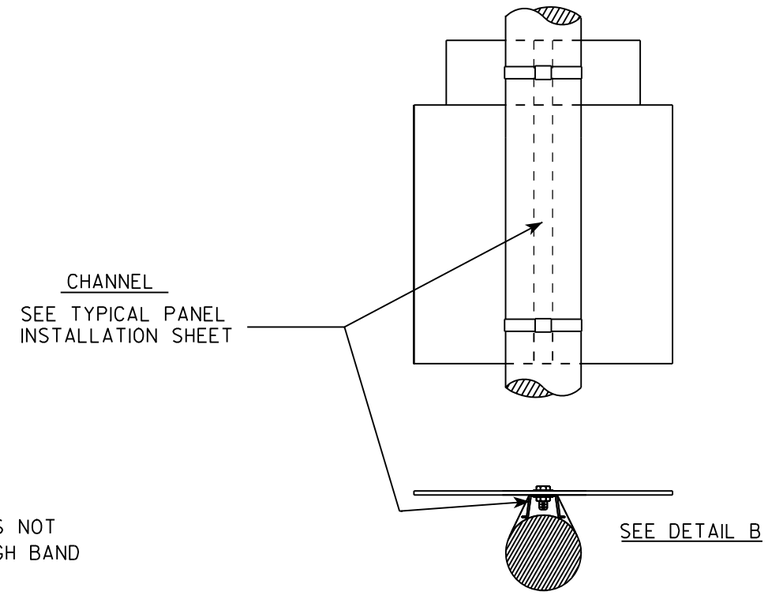
BANDING

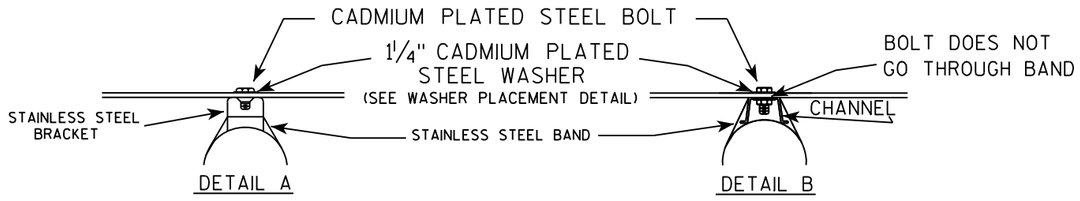
SINGLE SIGN



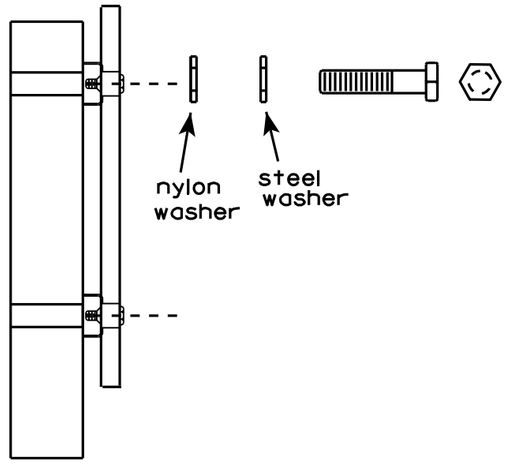


"J" ASSEMBLY





WASHER PLACEMENT



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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

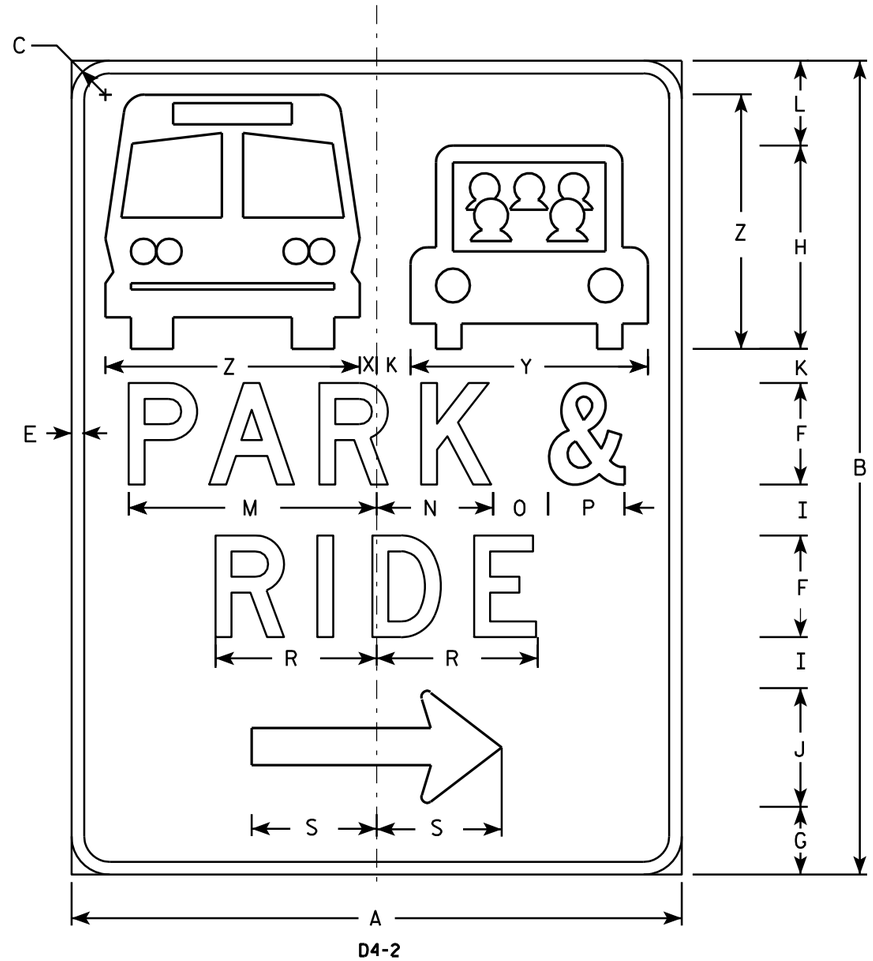
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

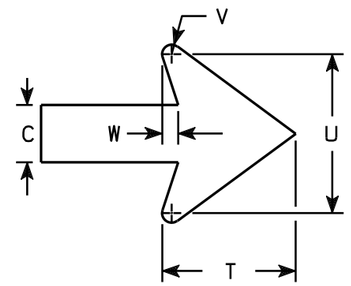
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 614	E



D4-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
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. The D4-2L is the same as a D4-2R except the arrow is reversed.
6. The D4-2 sign may have either symbol or both symbols at the same time.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8		1/2	4	1 5/8	7 1/2	1 1/2	4 5/8	1 3/8	3 7/8	9 3/4	4	2 3/4	3		6 3/8	4 7/8	3 1/2	4 1/8	1/4	3/8	5/8	9 3/8	10	5.0
2	30	36	1 3/8		5/8	5	2	9	1 5/8	5 1/2	1 5/8	4 5/8	12 1/4	5 1/8	3 3/8	3 3/4		8	6 1/8	4 3/8	5 1/4	3/8	1/2	7/8	11 3/4	12 1/2	7.50
3	36	48	2 1/4		3/4	6	4	12	3	7	2	5	14 5/8	6 7/8	3 1/4	4 1/2		9 1/2	7 1/2	5 1/4	6 1/4	3/8	5/8	1	14	15	12.0
4																											
5																											

STANDARD SIGN
D4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. D4-2.5

PROJECT NO:

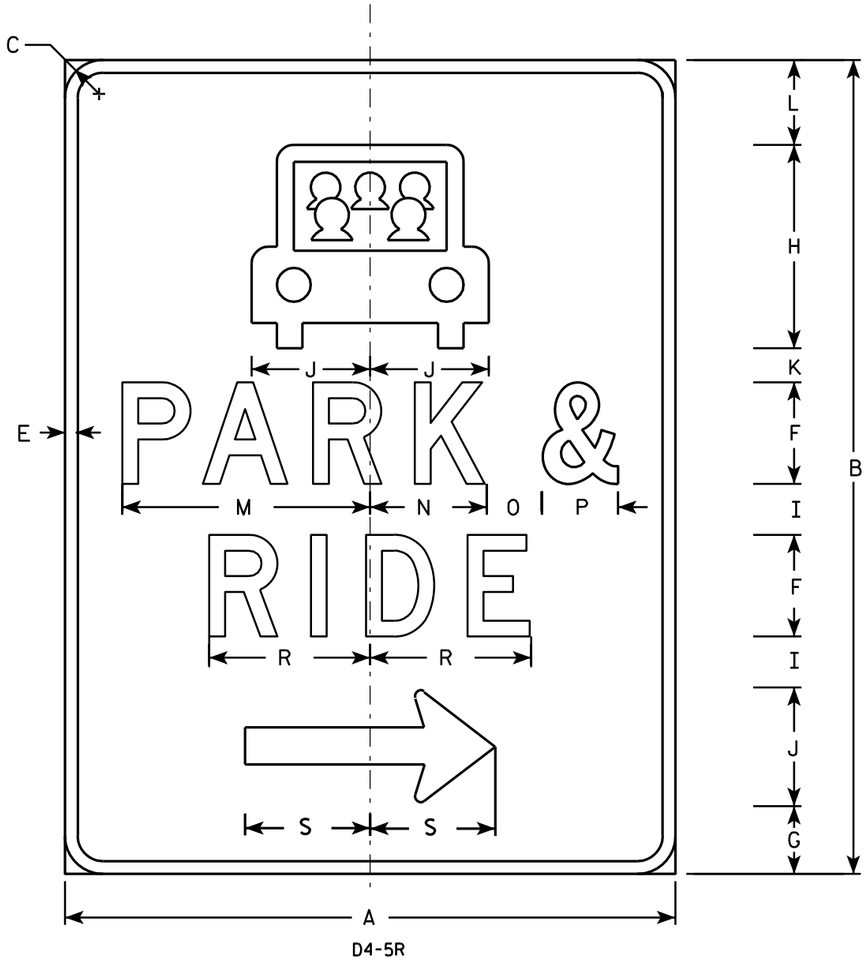
SHEET NO: 615 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\D42.dgn PLOT DATE : 10-FEB-2011 14:21 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

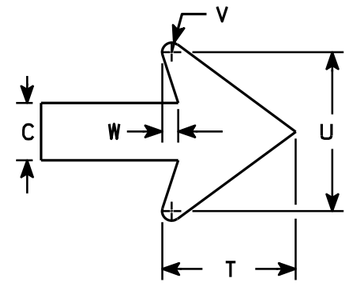
7



D4-5R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
3. Message Series - 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. The D4-5L is the same as a D4-5R except the arrow is reversed.



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																											
2	30	36	1 3/8		5/8	5	1 3/8	9	2	5	1 5/8	5	11 3/4	5 1/2	2 3/4	3 3/4		8	6 1/8	4	4 3/8	3/8	1/2				7.50
3	36	48	2 1/4		3/4	6	4	12	3	7	2	5	14 5/8	6 7/8	3 1/4	4 1/2		9 1/2	7 1/2	5 1/4	6 1/4	3/8	5/8				12.0
4																											
5																											

STANDARD SIGN
D4-5 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/15/10 PLATE NO. D4-5.2

PROJECT NO:

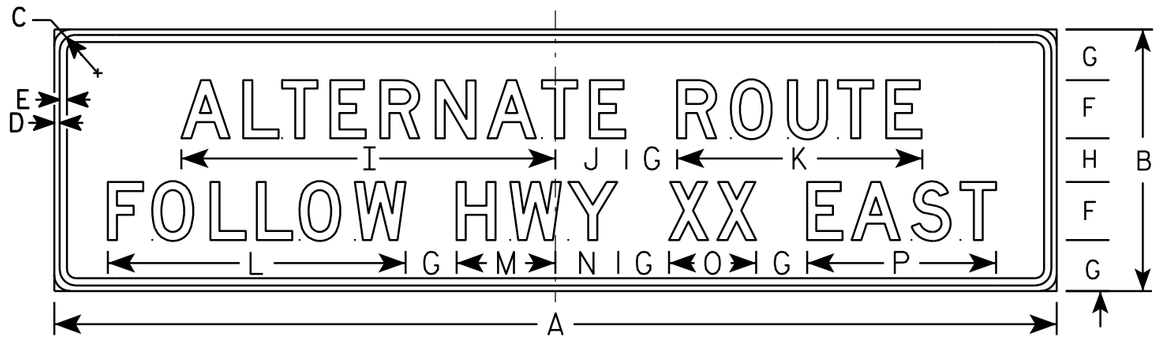
SHEET NO: 616 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\D45.DGN PLOT DATE : 15-NOV-2010 14:08 PLOT BY : dotsja

WISDOT/CADDS SHEET 42

7

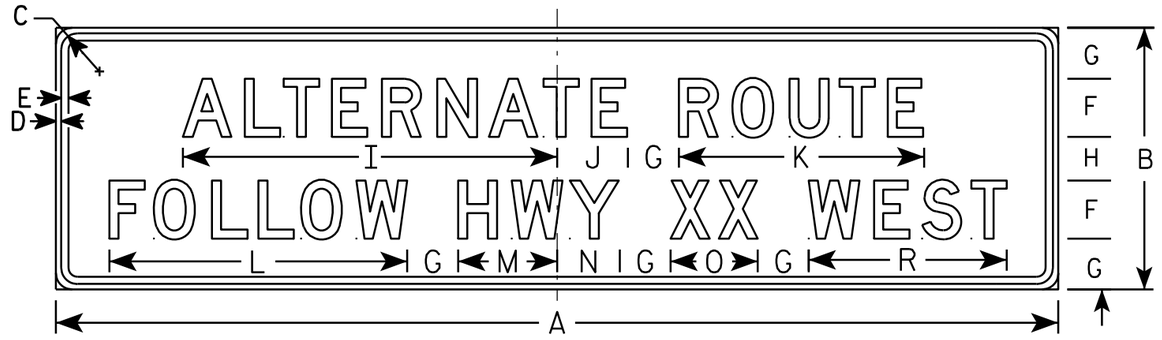
7



G20-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



G20-52A

7

7

Metric equivalent for this sign is:

SIZE	
1	
2	
3	
4	3450 mm X 900 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																												
3																												
4	138	36	2 1/4	3/4	1	8	7	6	51 1/2	9 3/4	33 3/4	41	13 5/8	8 5/8	12	26		27 1/4									34.5	3.11
5																												

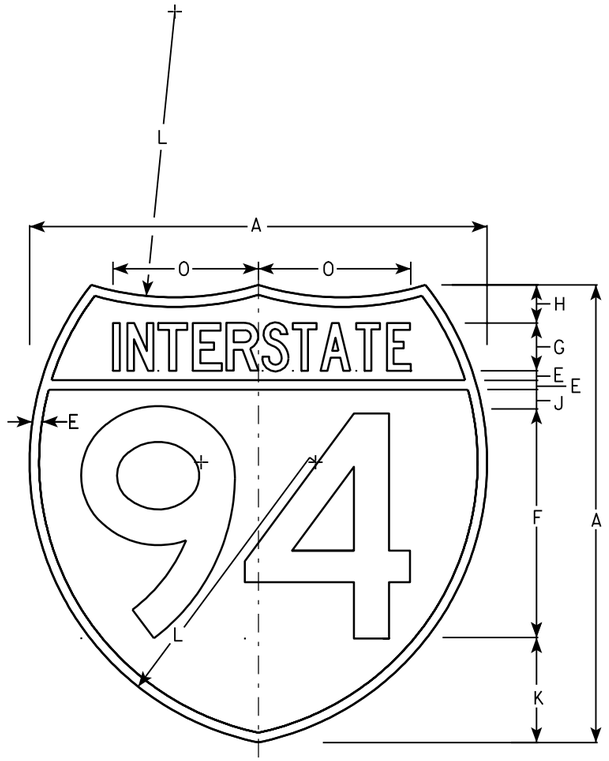
STANDARD SIGN
G20-52

WISCONSIN DEPT OF TRANSPORTATION

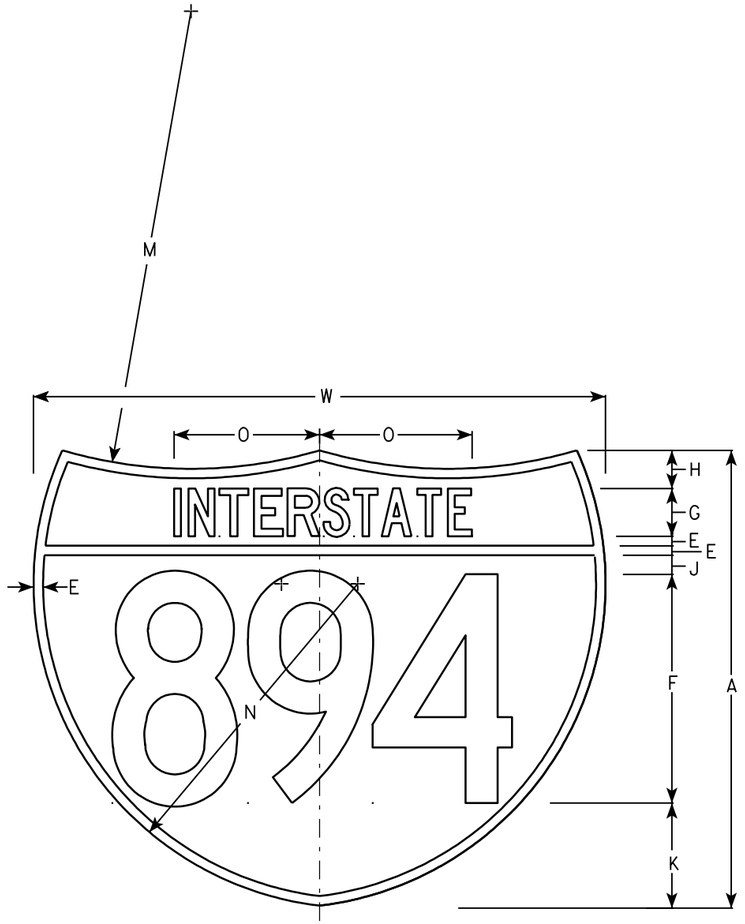
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 617	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 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	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

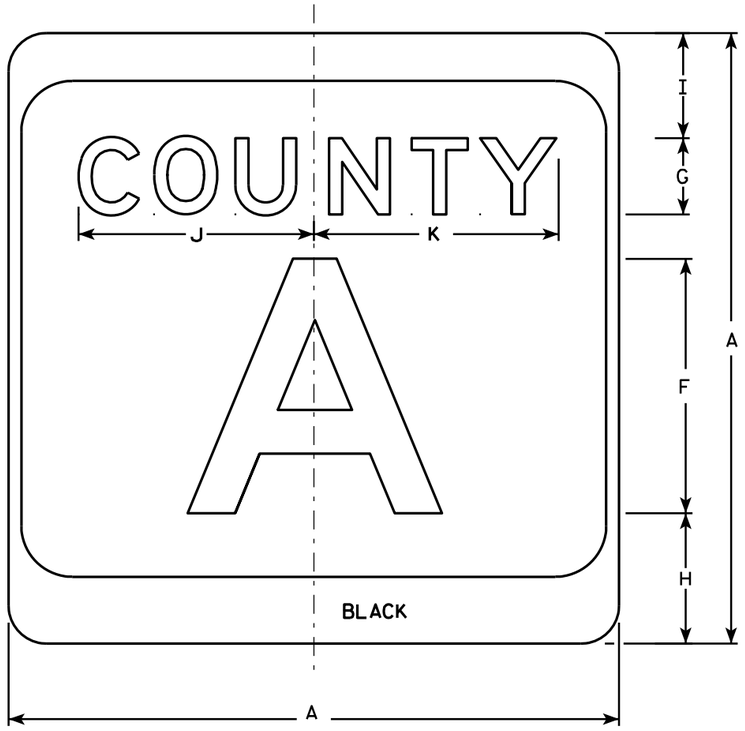
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

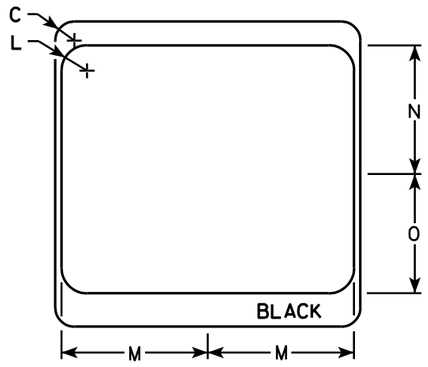
APPROVED Matthew R Rauch
for State Traffic Engineer

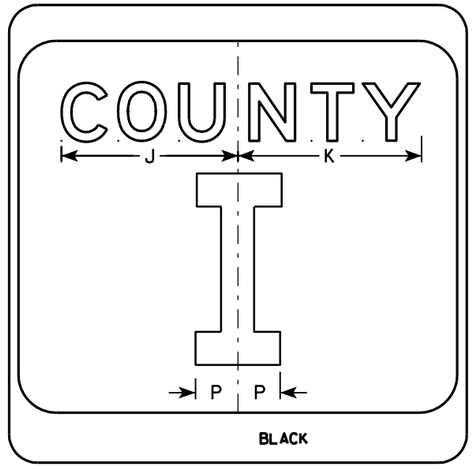
DATE 08/23/05 PLATE NO. M1-1.8

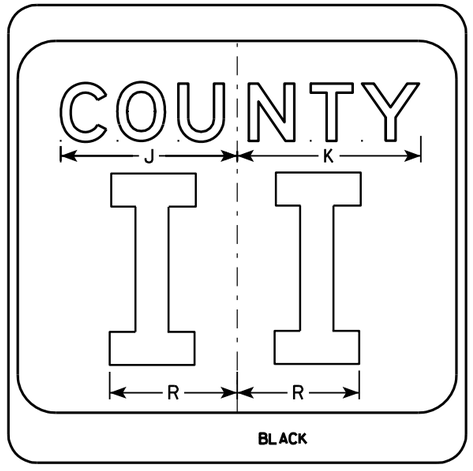
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 618	E



M1-5A







NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
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

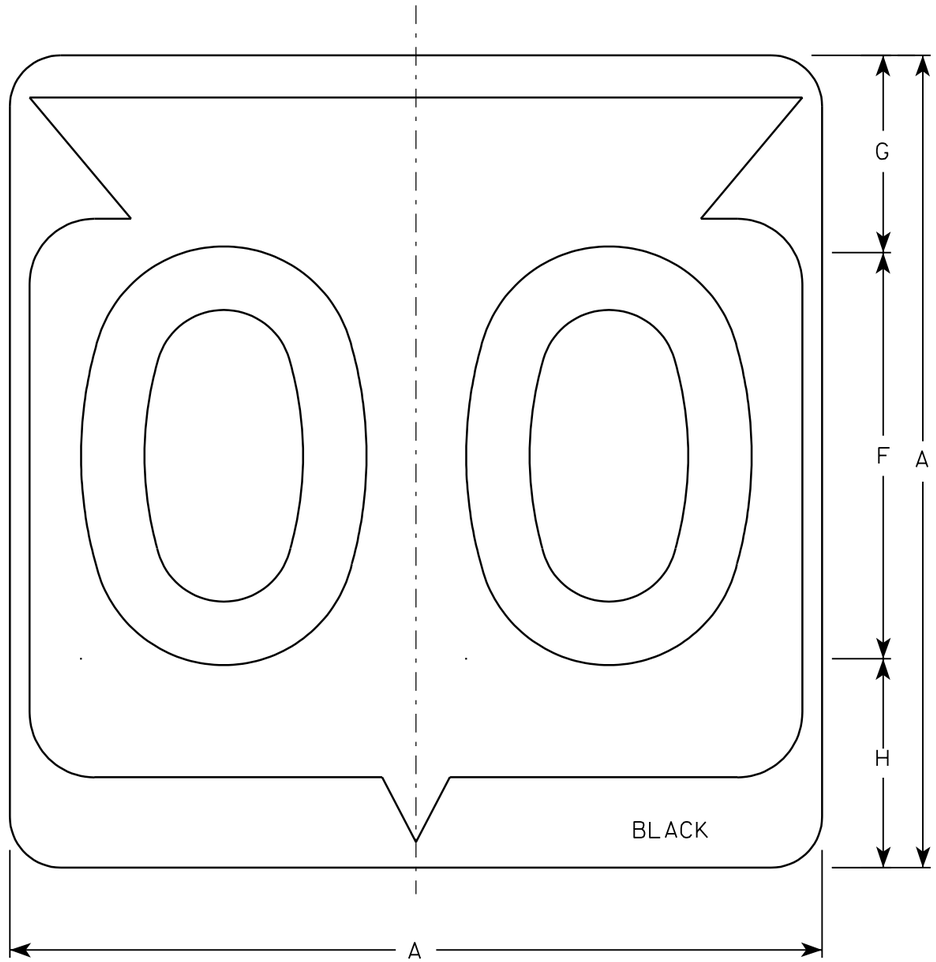
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

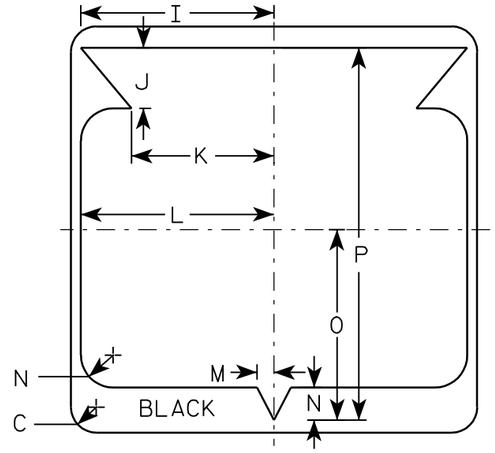
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 619 | E



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

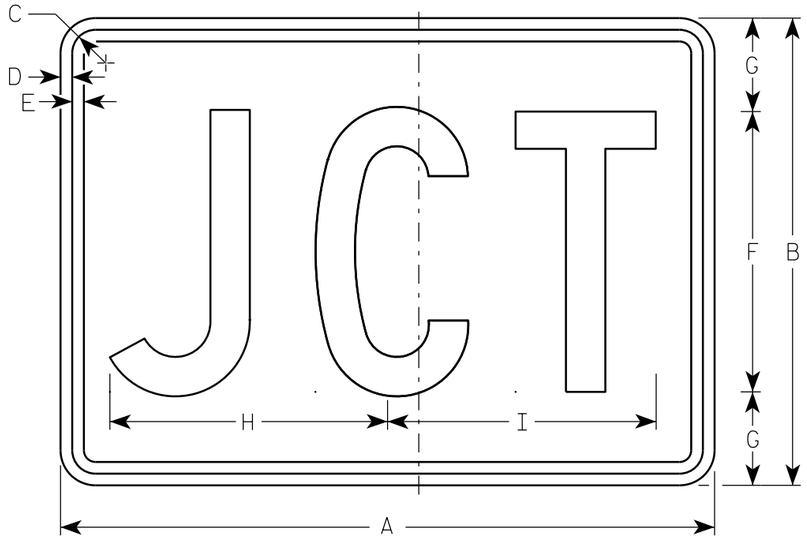
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

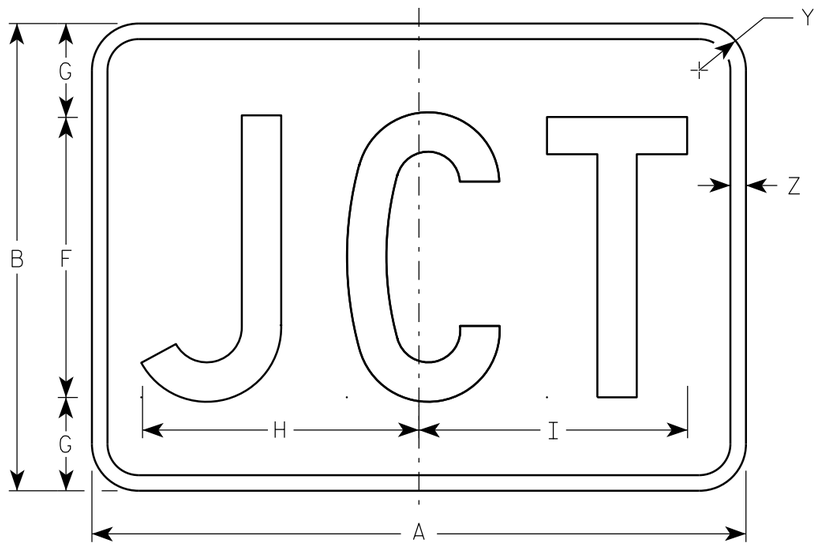
APPROVED Chester J Spang for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 620	E



M2-1
MK2-1
MM2-1
MN2-1
MR2-1



MB2-1

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
   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

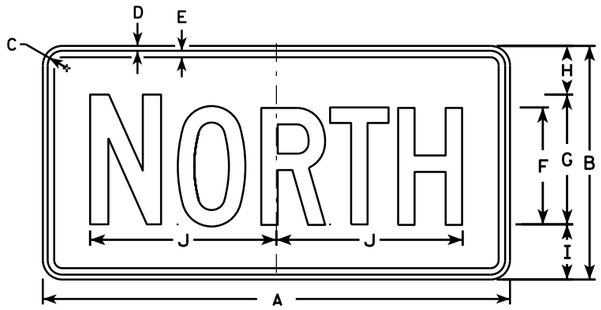
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

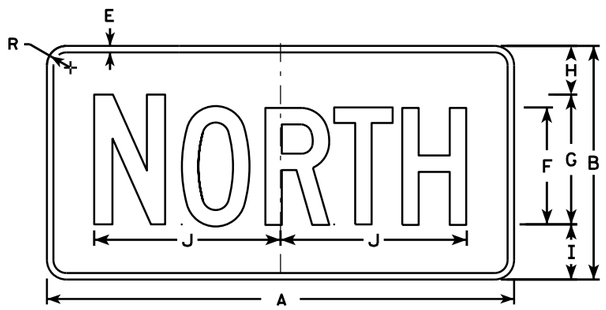
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/30/14 PLATE 621 12-1.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

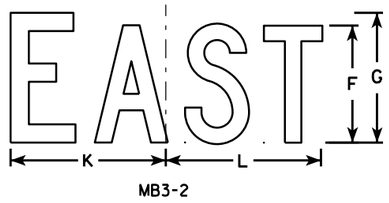


M3-1
MK3-1
MM3-1
MN3-1

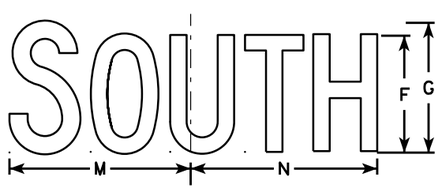


MB3-1

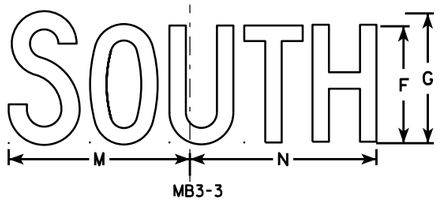
M3-2
MK3-2
MM3-2
MN3-2



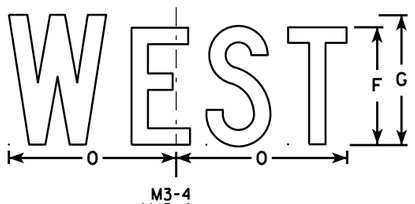
MB3-2



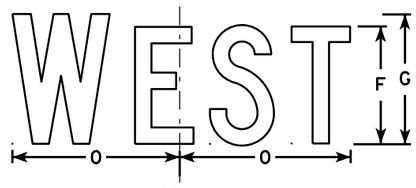
M3-3
MK3-3
MM3-3
MN3-3



MB3-3



M3-4
MK3-4
MM3-4
MN3-4



MB3-4

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
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

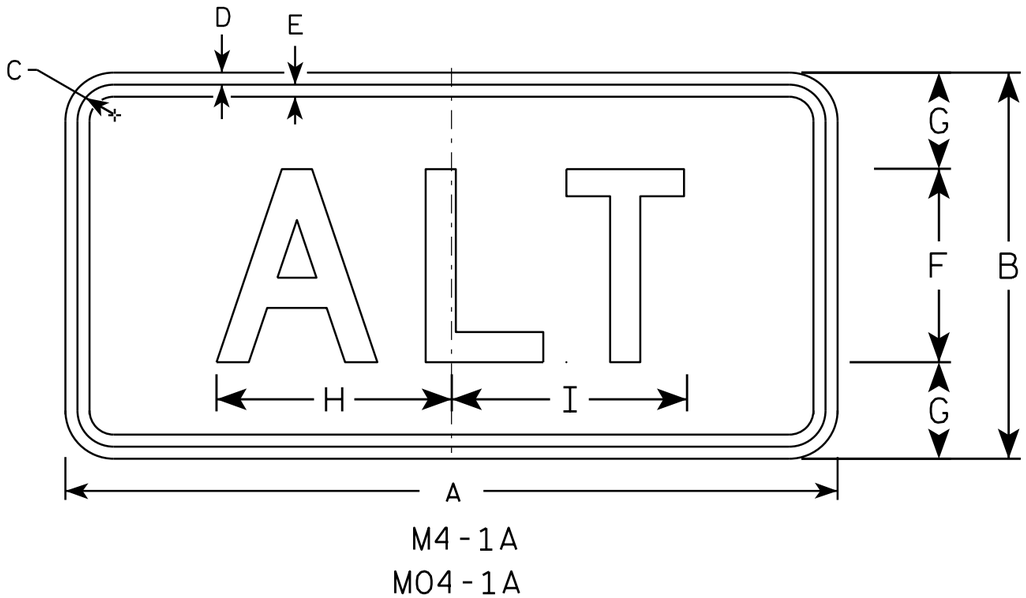
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/30/14 PLATE NO M3-1.13

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

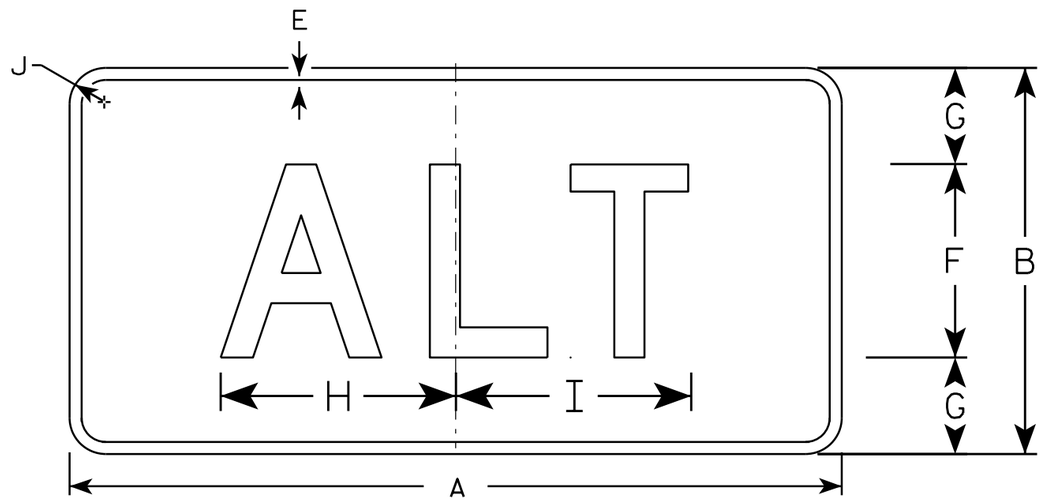
7



M4-1A
M04-1A

NOTES

1. Sign is Type II - Type H except as Shown
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. M4-1A Background - White
   Message - Black
   MB4-1A Background - Blue
   Message - White
   M04-1A Background - Orange - Type F
   Message - Black



MB4-1A

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 1/4	7 3/8	1 1/8																	2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	11	11 1/8	1 1/8																	4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	11	11 1/8	1 1/8																	4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	11	11 1/8	1 1/8																	4.5

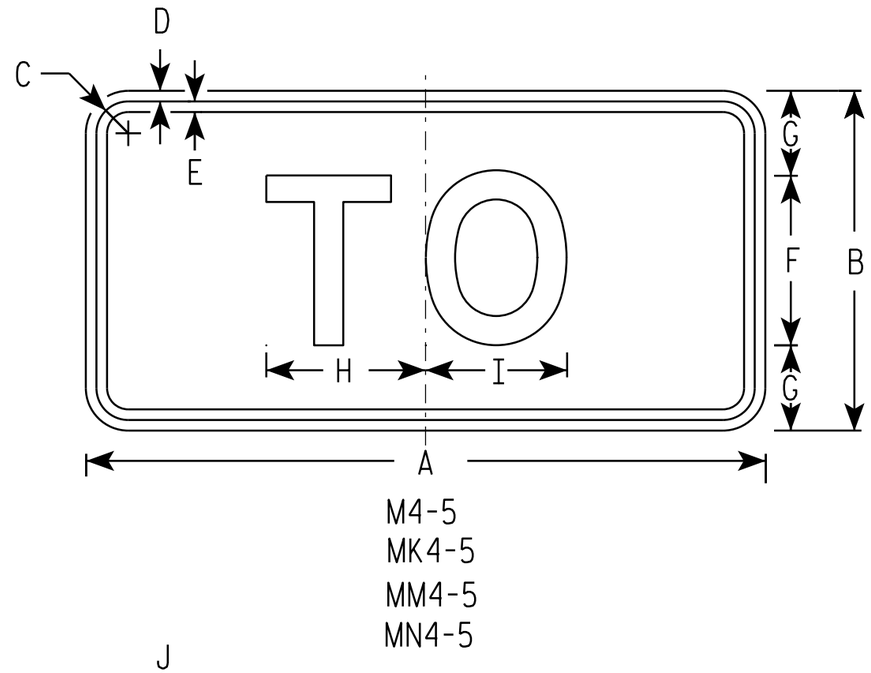
STANDARD SIGN
M4-1A

WISCONSIN DEPT OF TRANSPORTATION

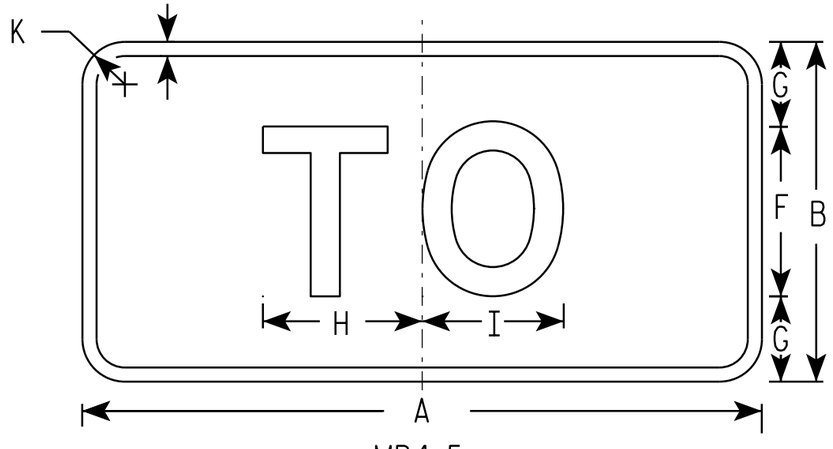
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/30/14 PLATE 623 M4-1A.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M4-5
MK4-5
MM4-5
MN4-5



MB4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
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. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

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	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

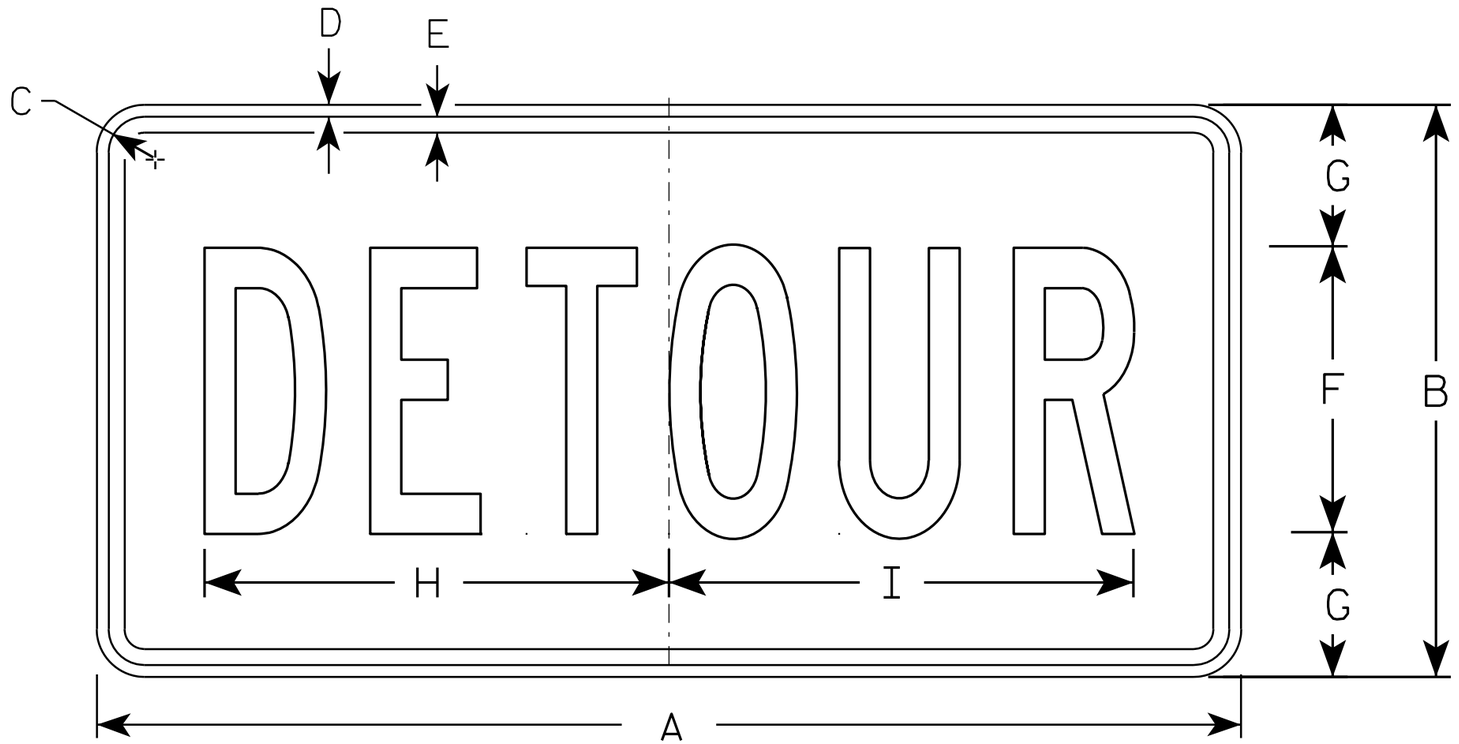
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE M4-5.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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																											

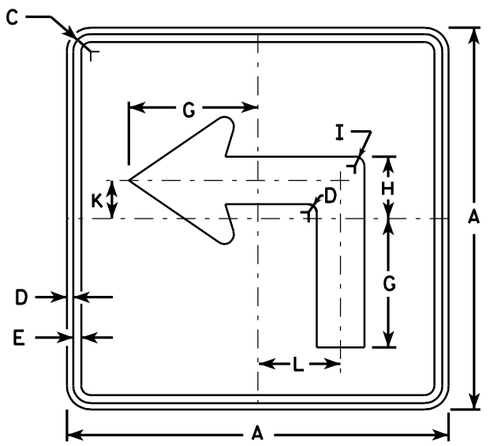
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

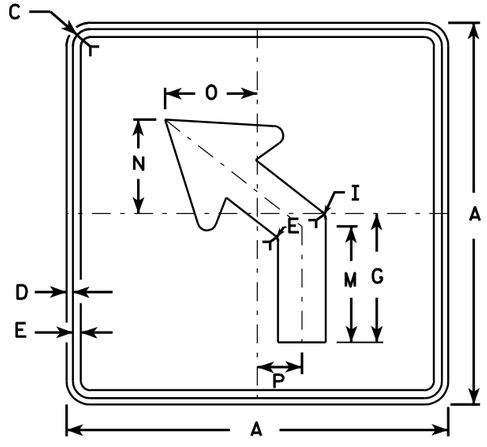
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

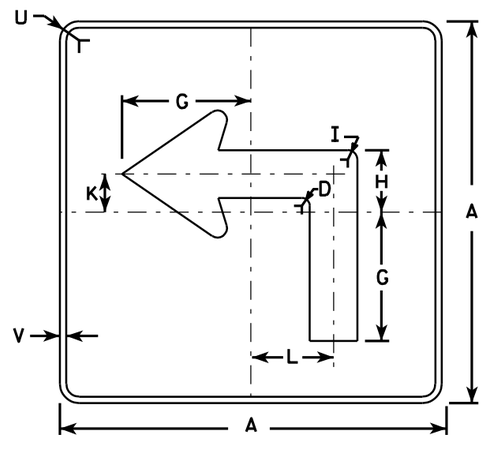
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 625	E



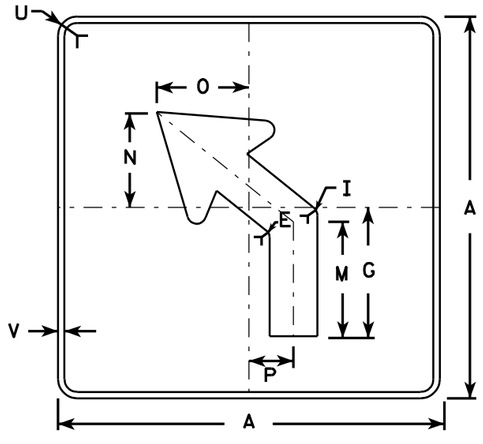
M5-1L
MK5-1L
MM5-1L
MO5-1L
MP5-1L
MR5-1L



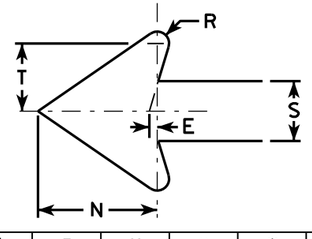
M5-2L
MK5-2L
MM5-2L
MO5-2L
MP5-2L
MR5-2L



MB5-1L
MG5-1L
MN5-1L



MB5-2L
MG5-2L
MN5-2L



NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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 - Type H Reflective
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White - Type H Reflective
   MG5-1 and MG5-2 Background - Green
   Message - White - Type H Reflective
   MK5-1 and MK5-2 Background - Green
   Message - White Type H Reflective
   MM5-1 and MM5-2 Background - White - Type H Reflective
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White - Type H Reflective
   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 - Type H Reflective
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 1/8	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 1/8	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 1/8	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

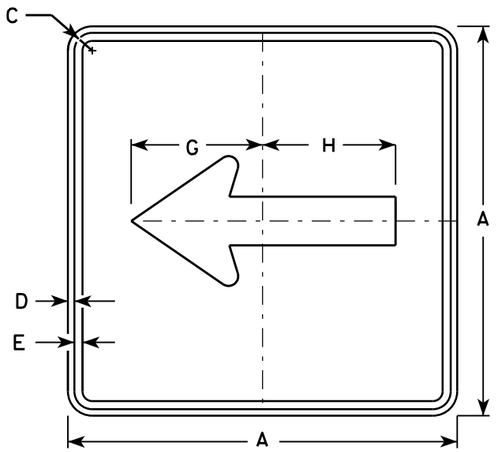
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M5-1.12

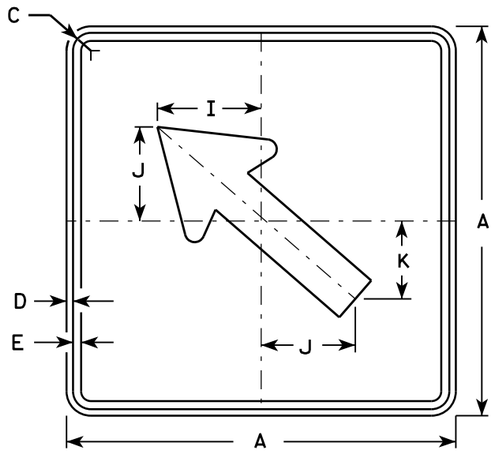
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 626	E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 29-JUL-2013 13:34 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.908552:1.000000
WISDOT/CADDS SHEET 42



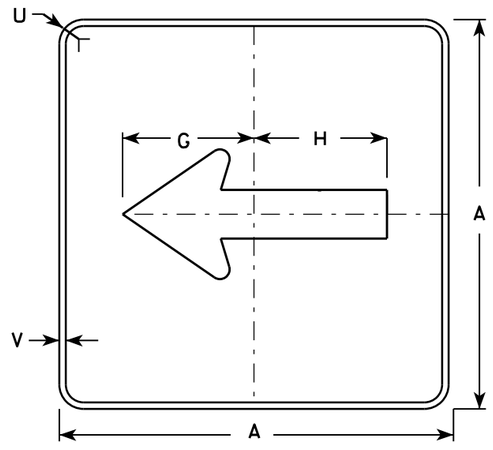
M6-1
MK6-1
MM6-1
MN6-1
MO6-1
MP6-1
MR6-1



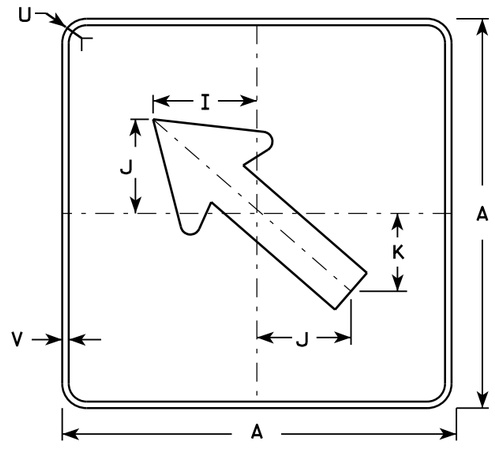
M6-2
MK6-2
MM6-2
MN6-2
MO6-2
MP6-2
MR6-2

NOTES

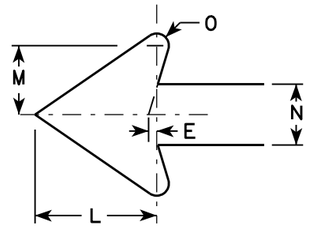
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MG6-1 and MG6-2 Background - Green
   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



MB6-2



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

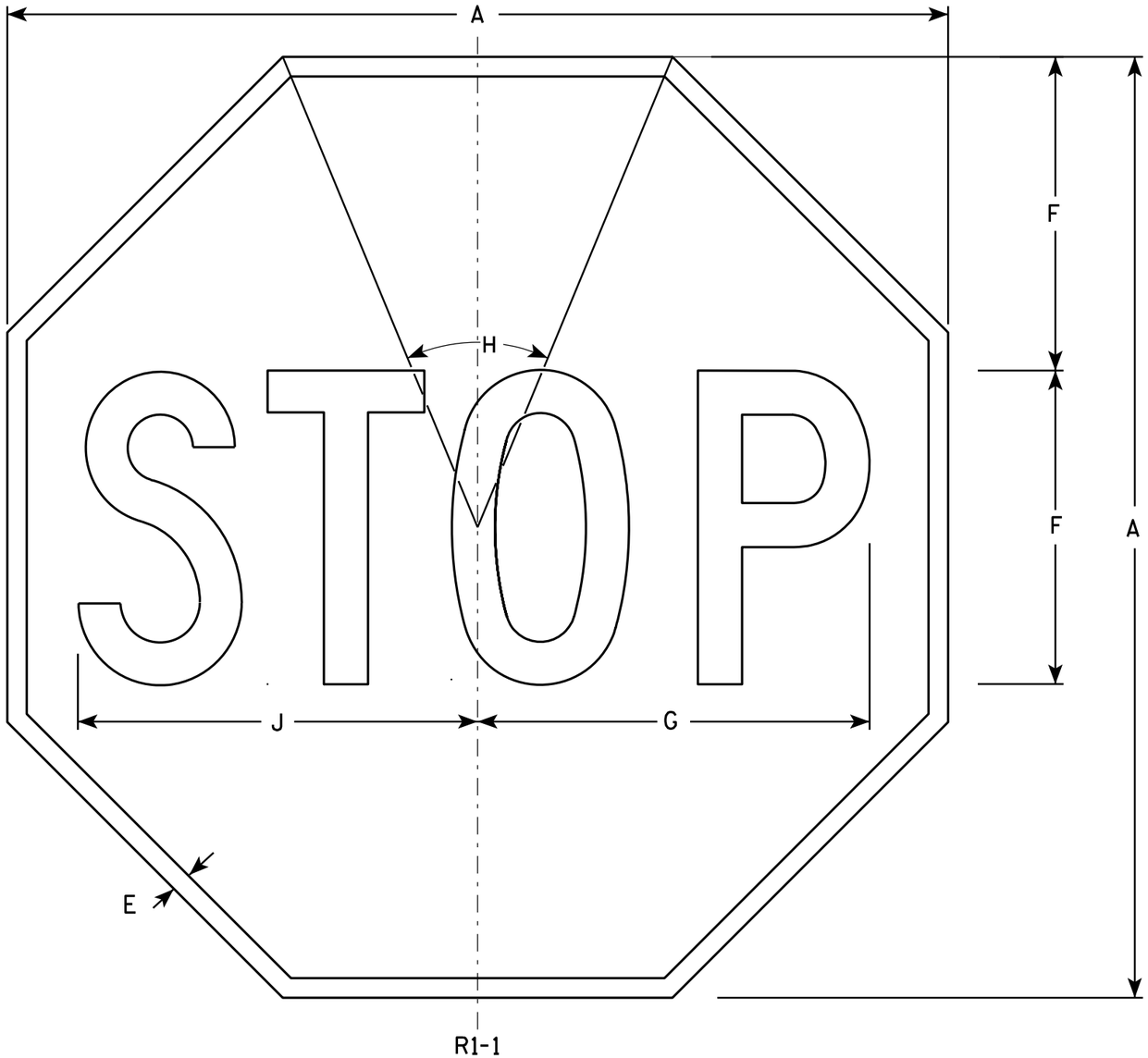
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/03/14 PLATE 627 M6-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 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 - 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	24				3/8	8	10	45°		10 1/4																	3.31
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

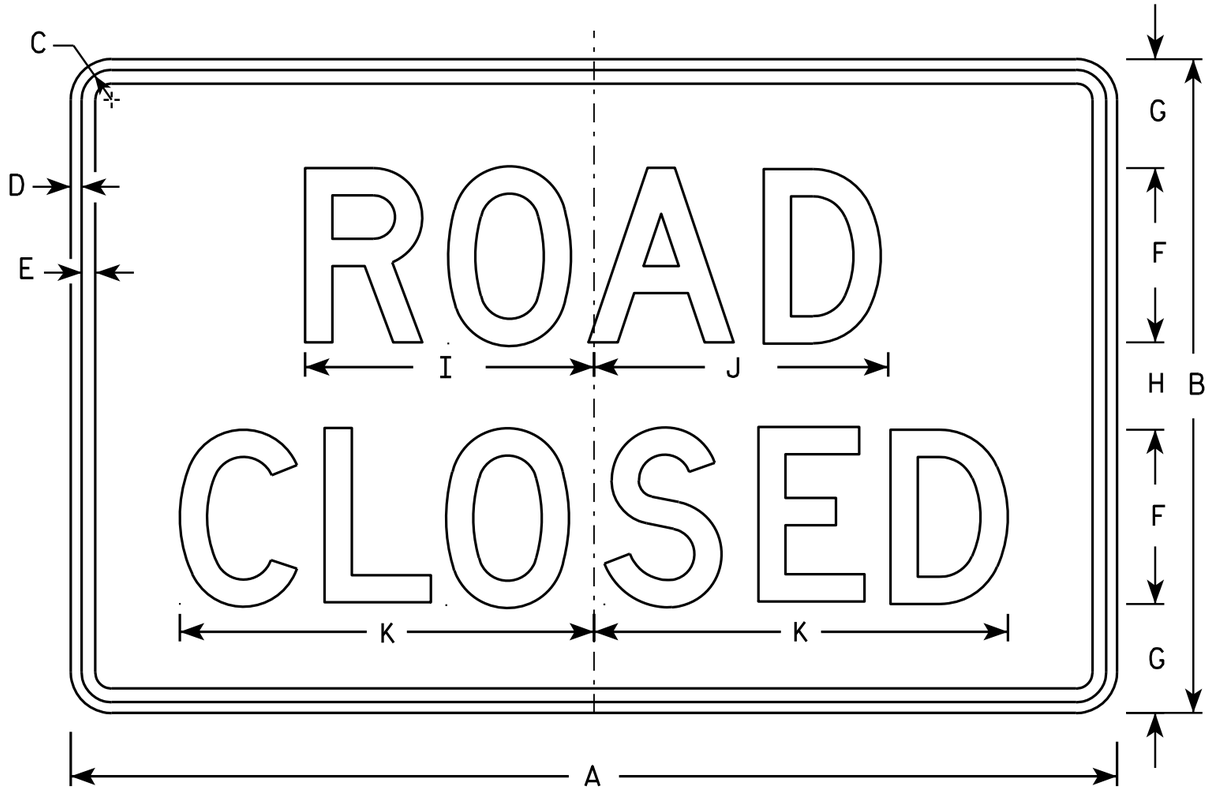
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

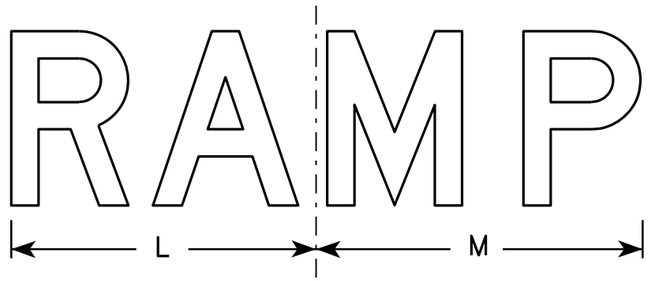
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 628	E



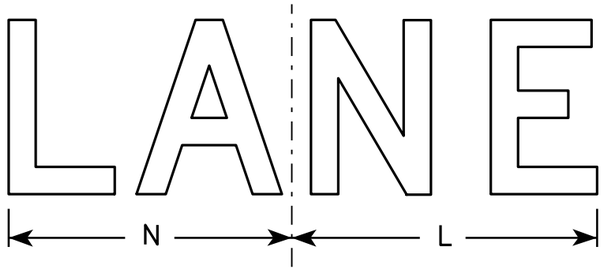
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

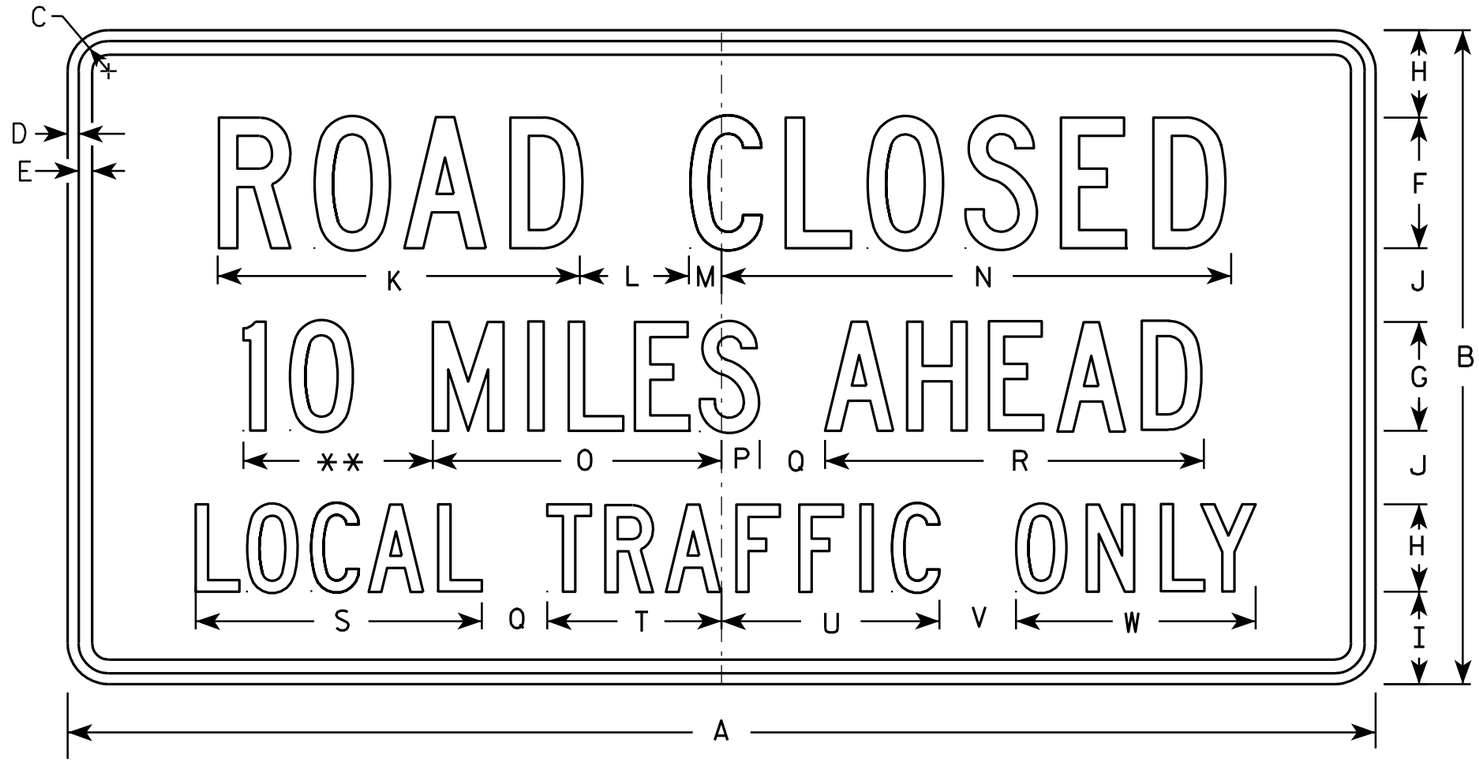
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 629	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.DGN PLOT DATE : 01-APR-2011 14:25 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.952219:1.000000

WISDOT/CADDS SHEET 42



R11-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

** See Note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

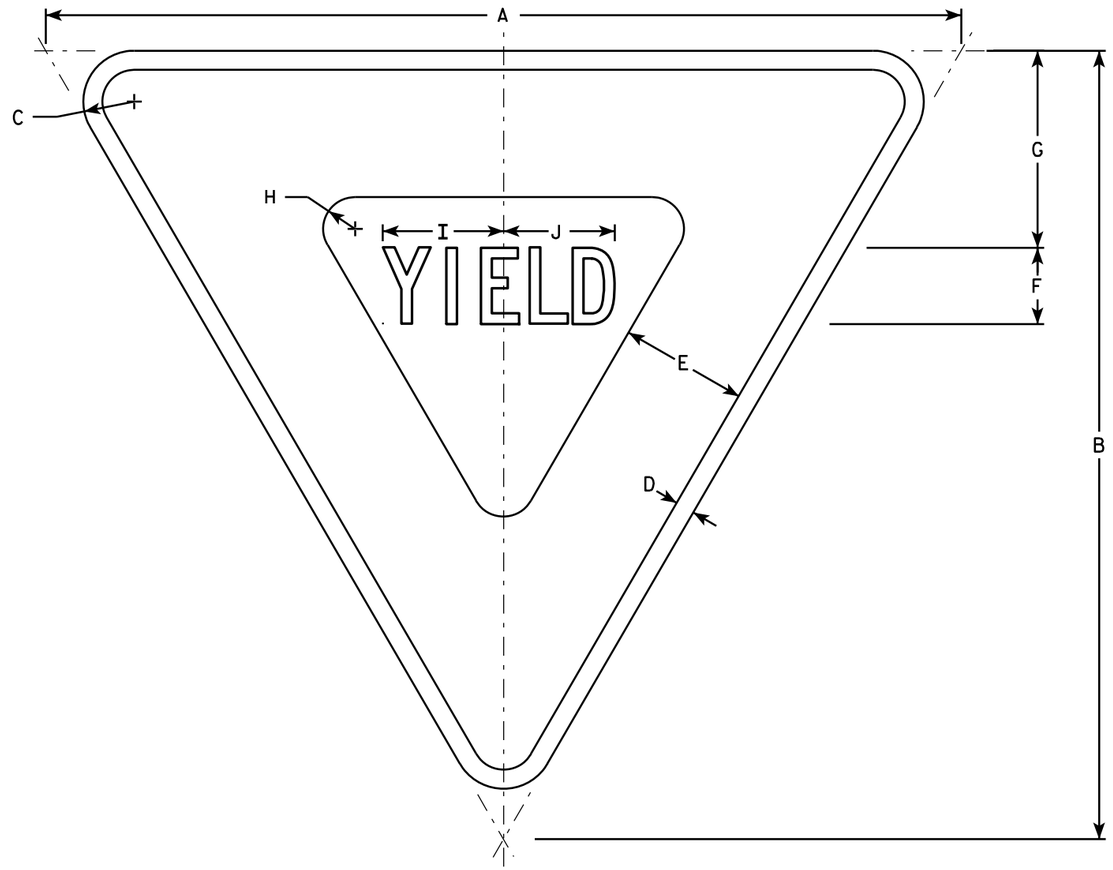
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 630	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - 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. The border strip and word message are reflectorized red.

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	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6	24	21	1 1/2	3/8	3	2	4 3/4	7/8	3 1/4	3																	1.75
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

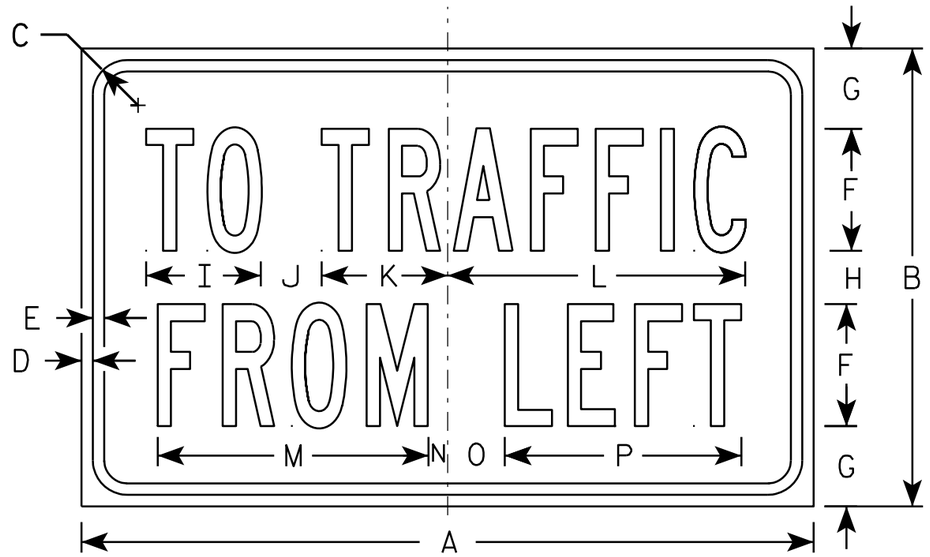
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 631 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R12.DGN PLOT DATE : 02-NOV-2010 10:38 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000
WISDOT/CADDS SHEET 42



R1-54

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 - B

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	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

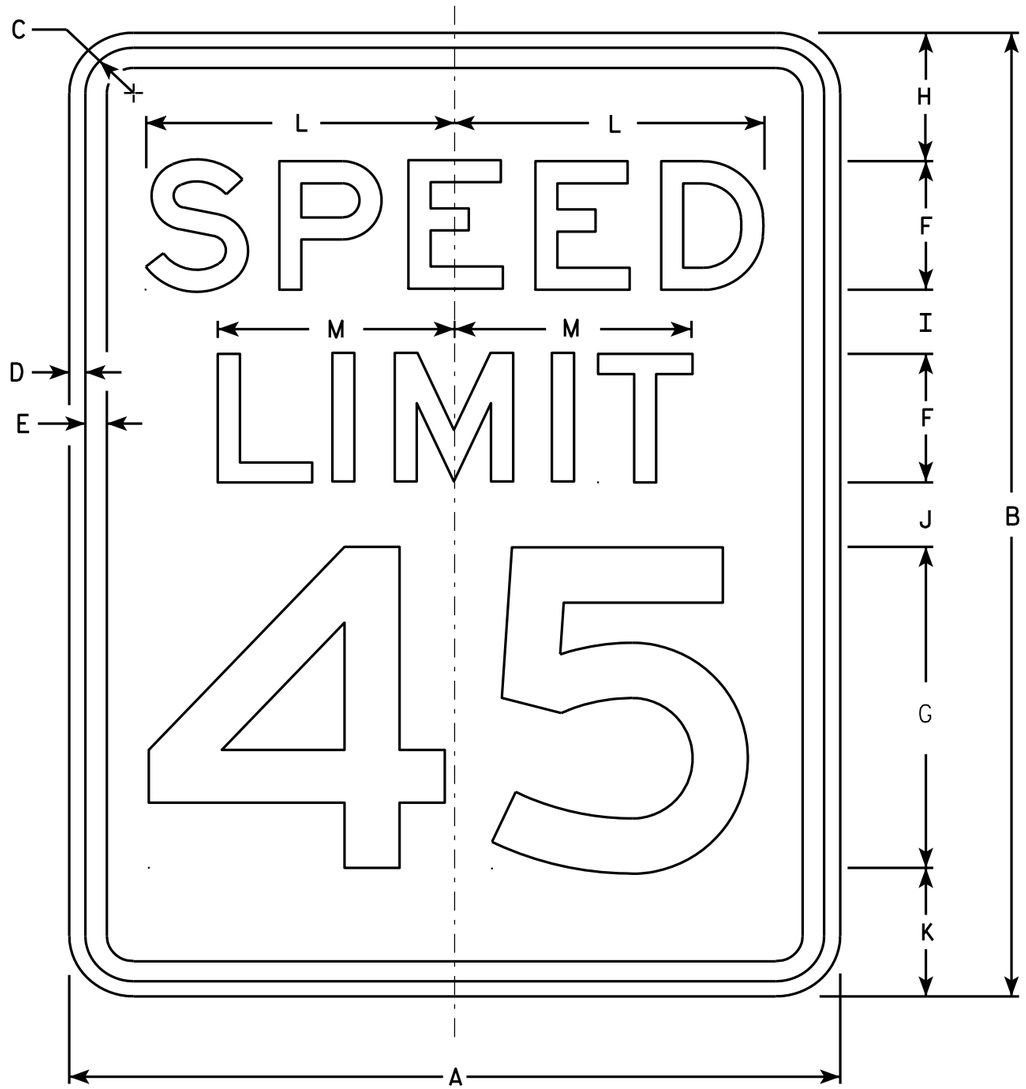
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 632	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

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

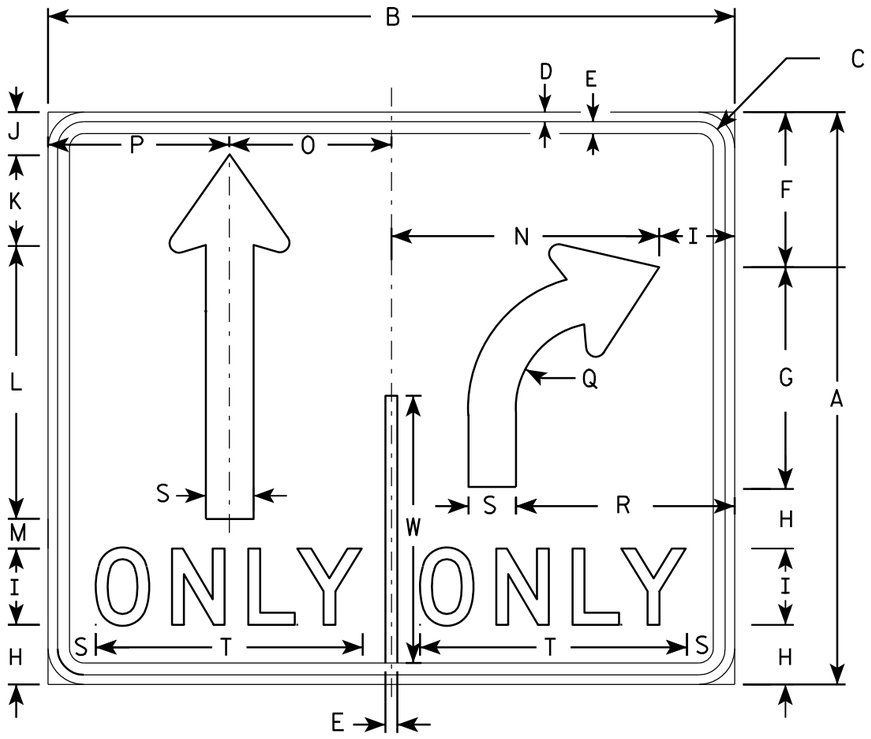
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

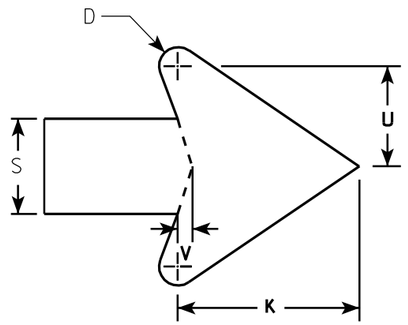
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 633	E



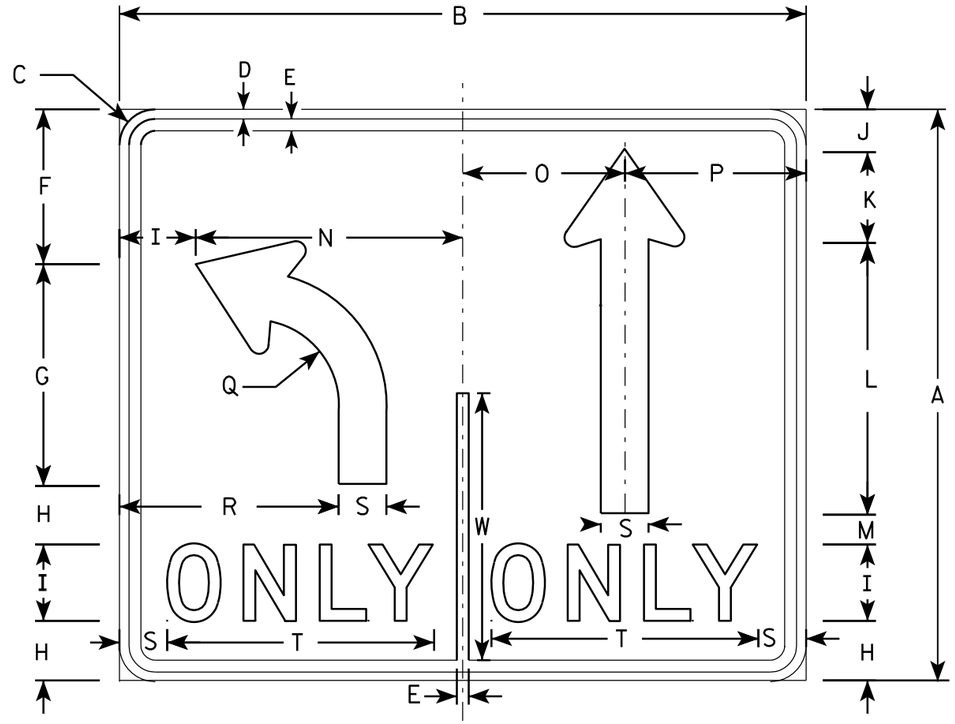
R3-8D



ARROW DETAIL

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.



R3-8E

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	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 5/8	3/8	14				7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 5/8	3/8	14				7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 5/8	4	5/8	22 3/8				18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 5/8	4	5/8	22 3/8				18.0

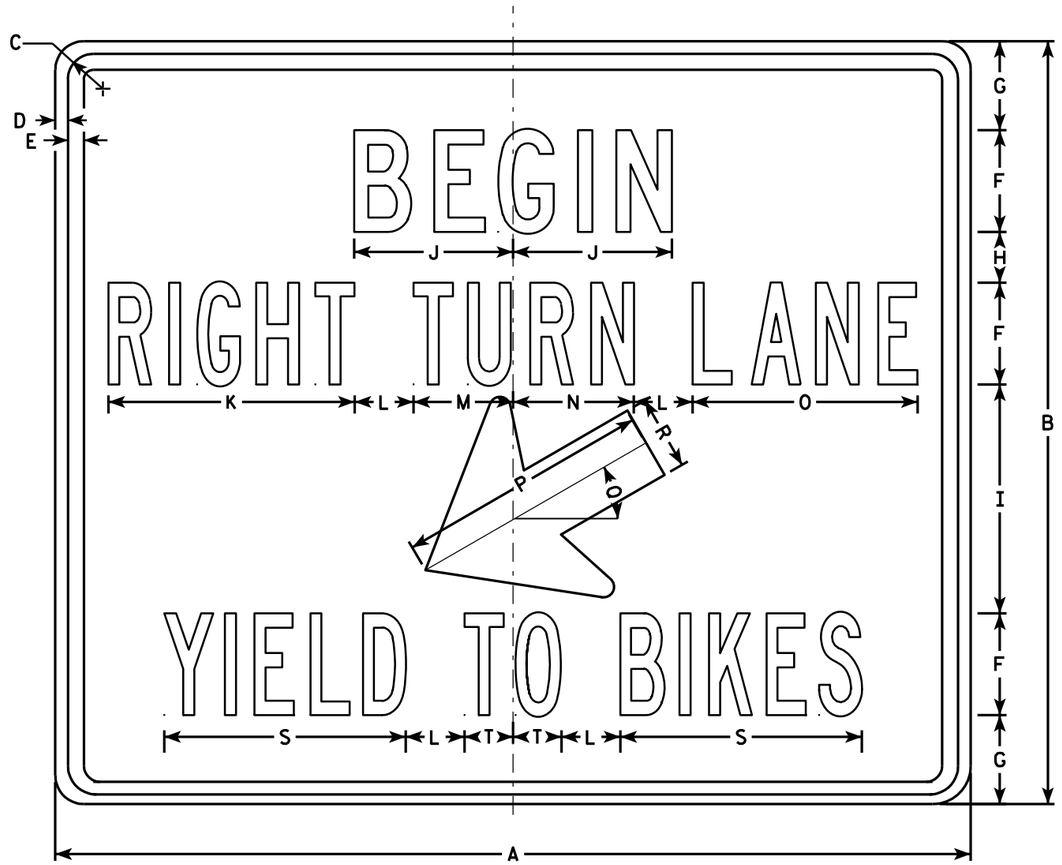
STANDARD SIGN
R3-8D & R3-8E

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8D.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 634	E



R4-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series C
   Lines 2 & 3 are Series B

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	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
2M	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
3																											
4																											
5																											

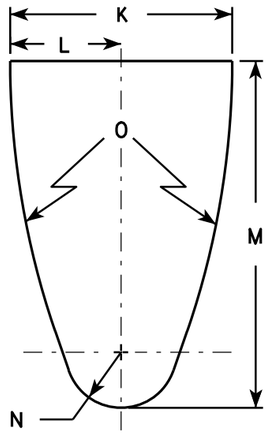
STANDARD SIGN
R4-4

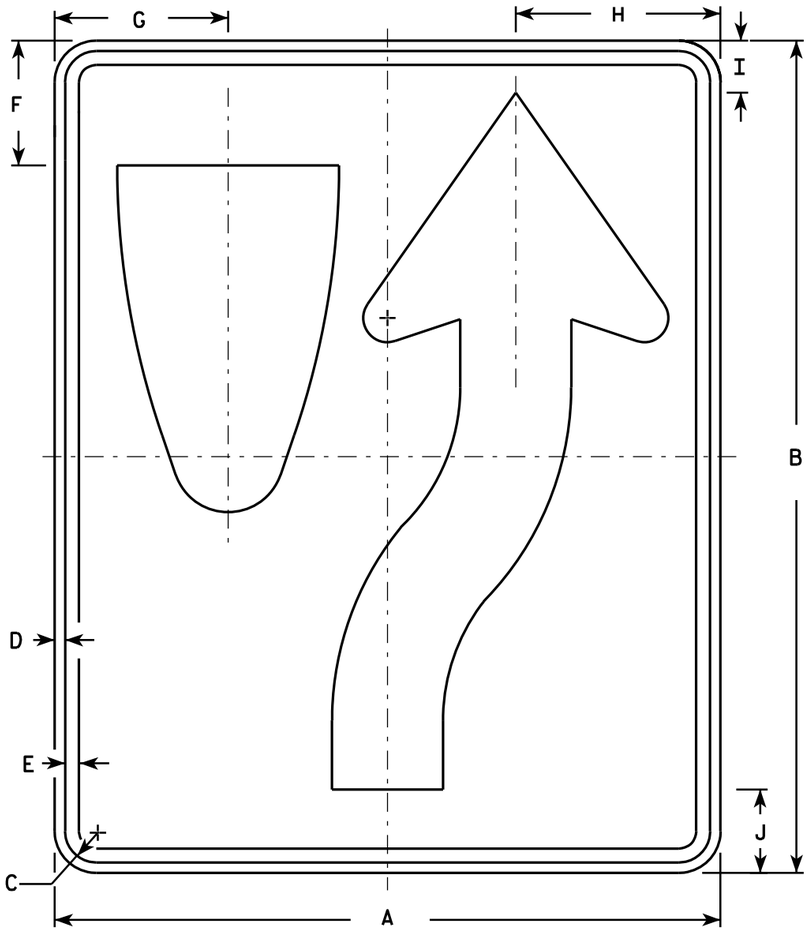
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-4.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 635	E

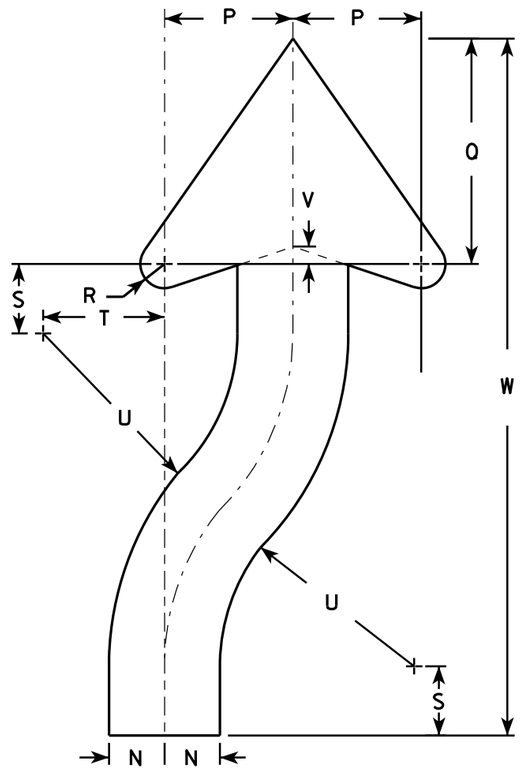




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



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	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

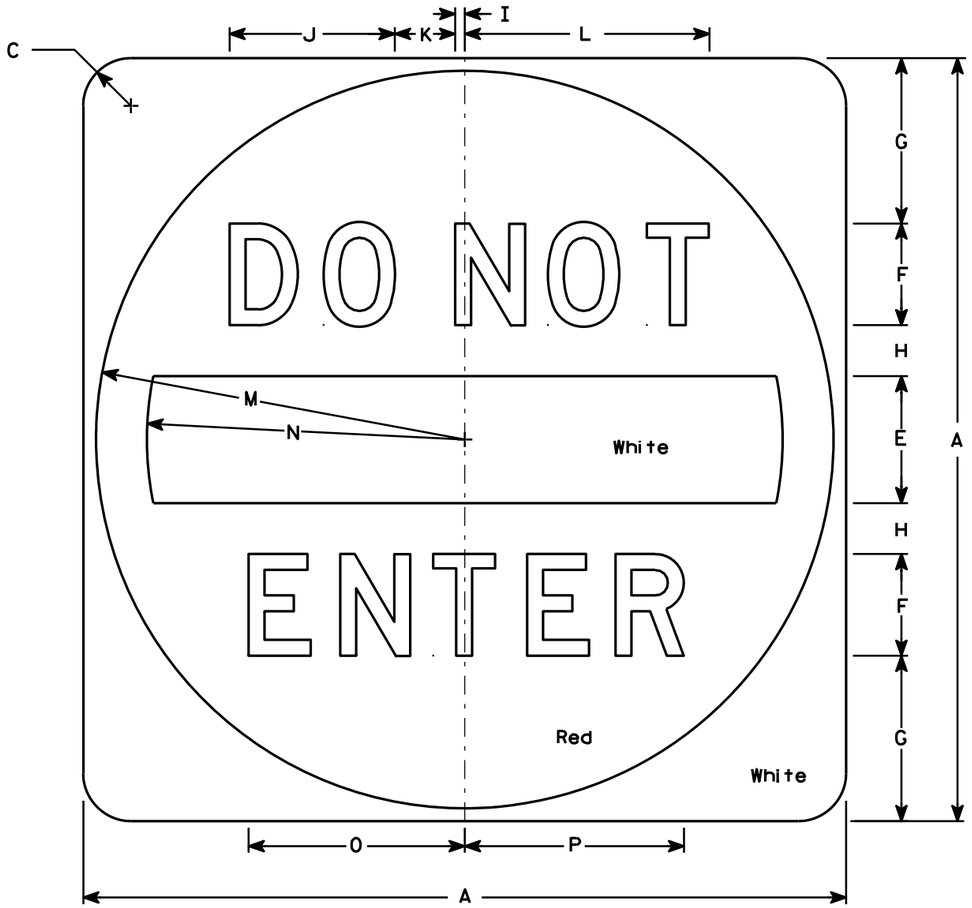
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 636	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

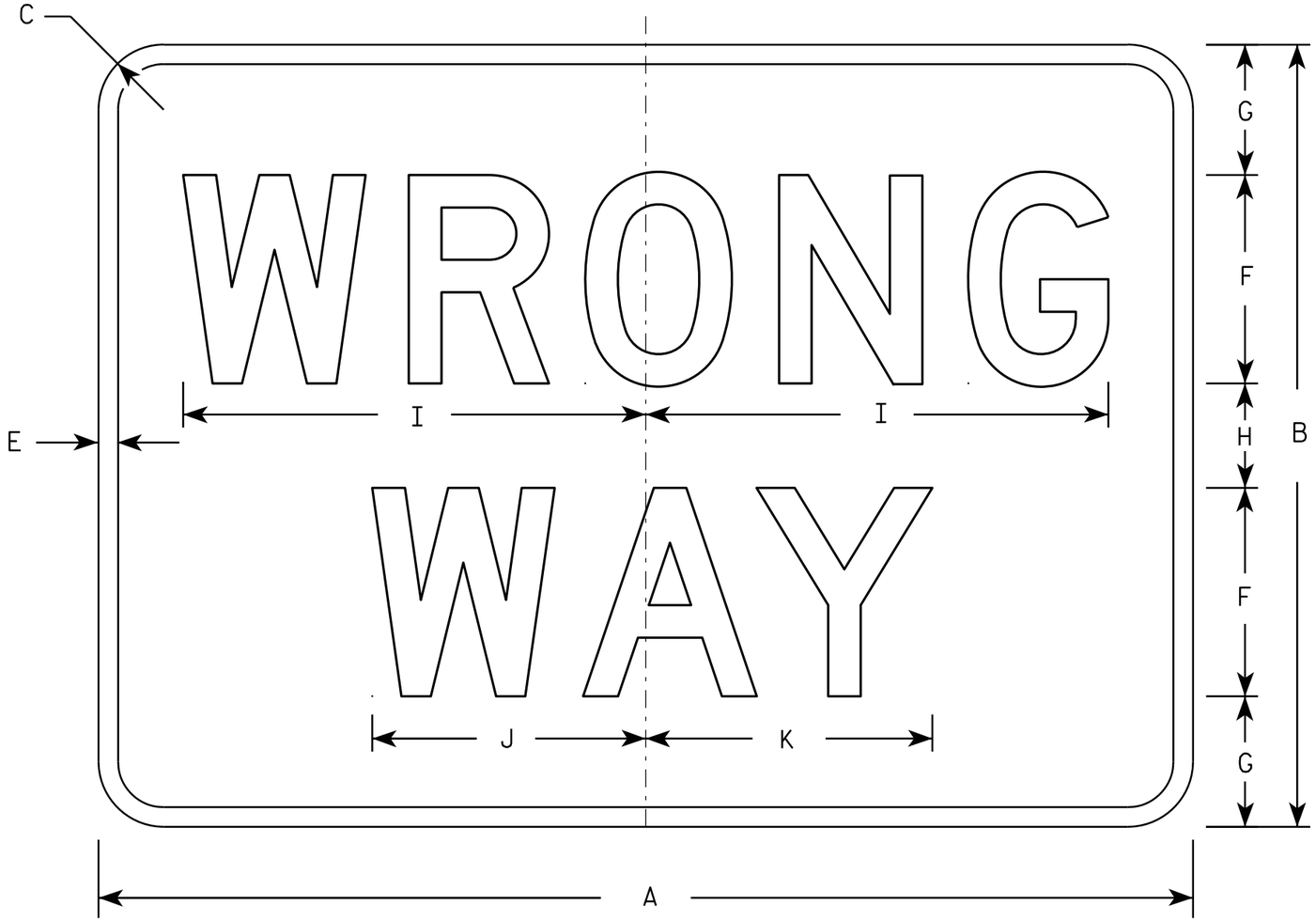
STANDARD SIGN
R5-1

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: 637 | E



R5-1A

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 638	E

R5-57

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 - Lines 1, 2, and 5 are Series C.
   Lines 3 and 4 are 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																											
2S																											
2M																											
3																											
4	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0
5	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0

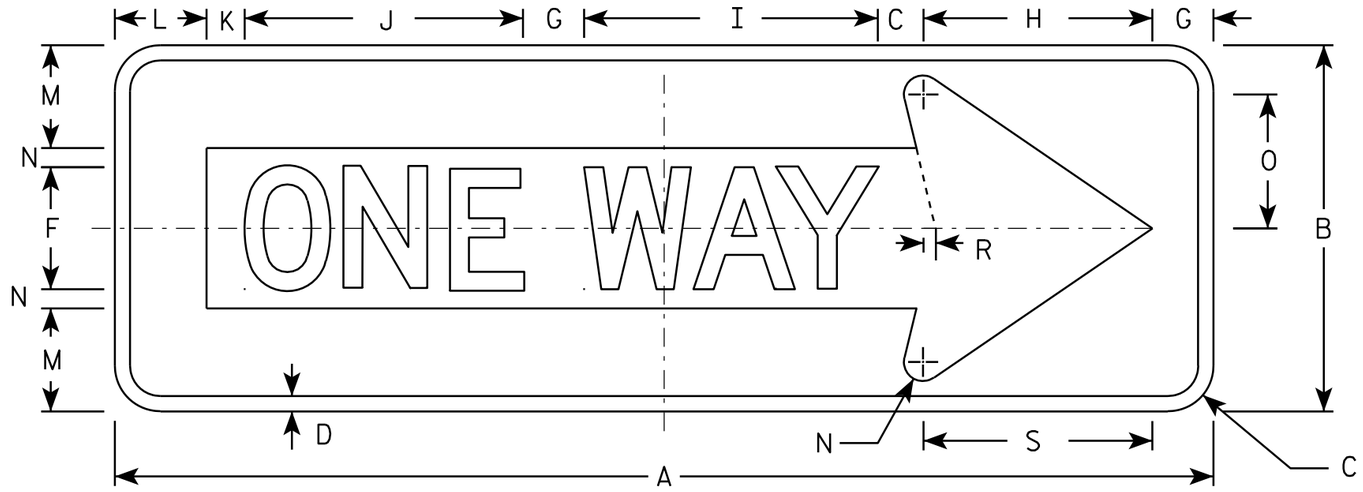
STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57.10

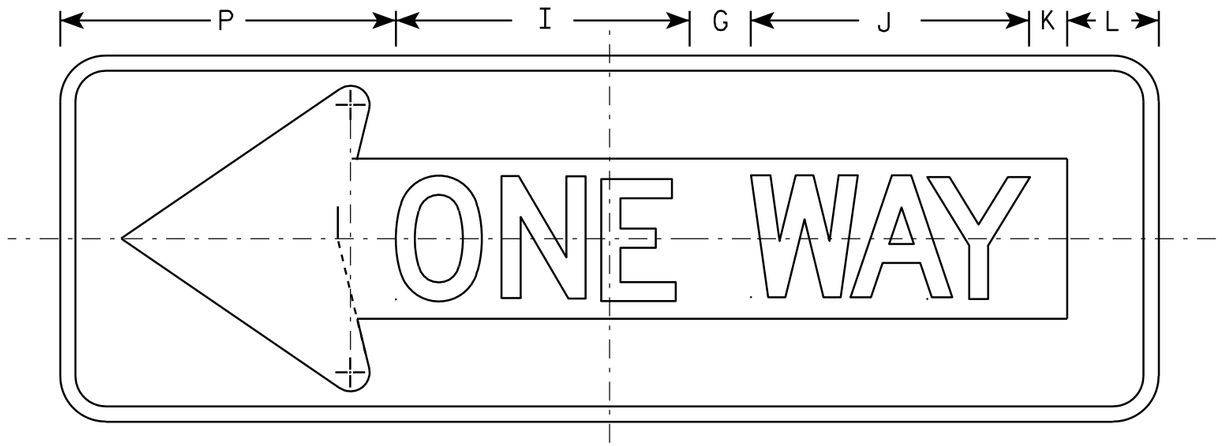
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 639 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

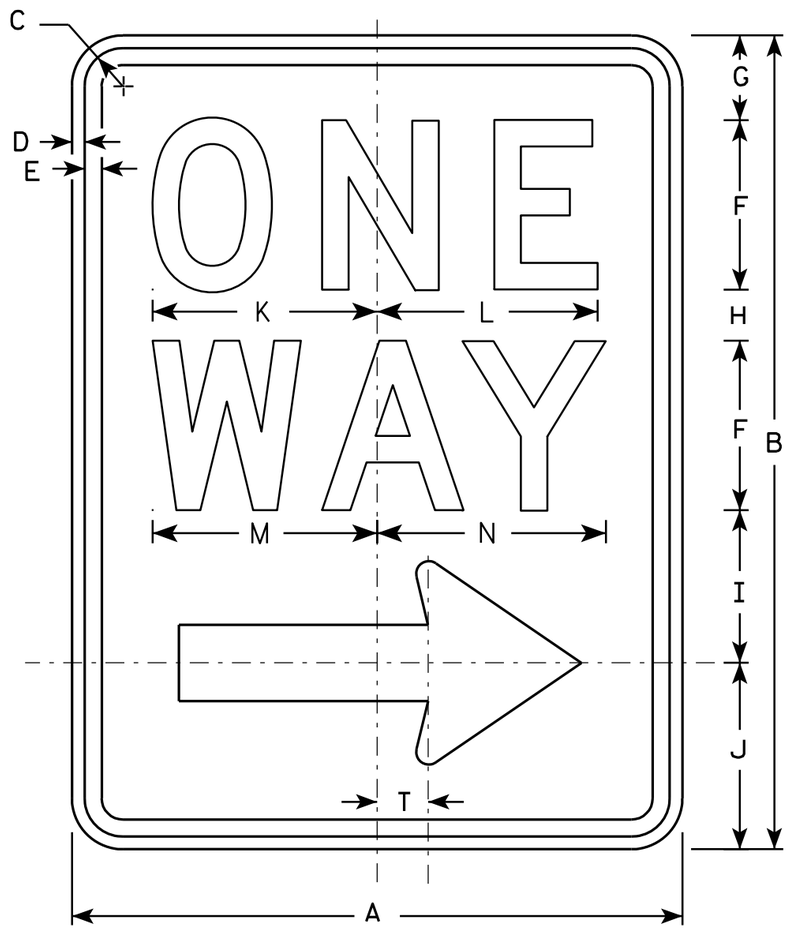
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

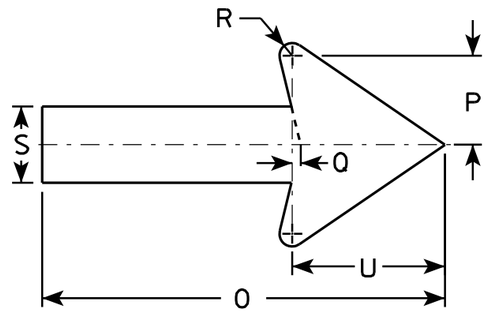
SHEET NO: 640 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



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
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

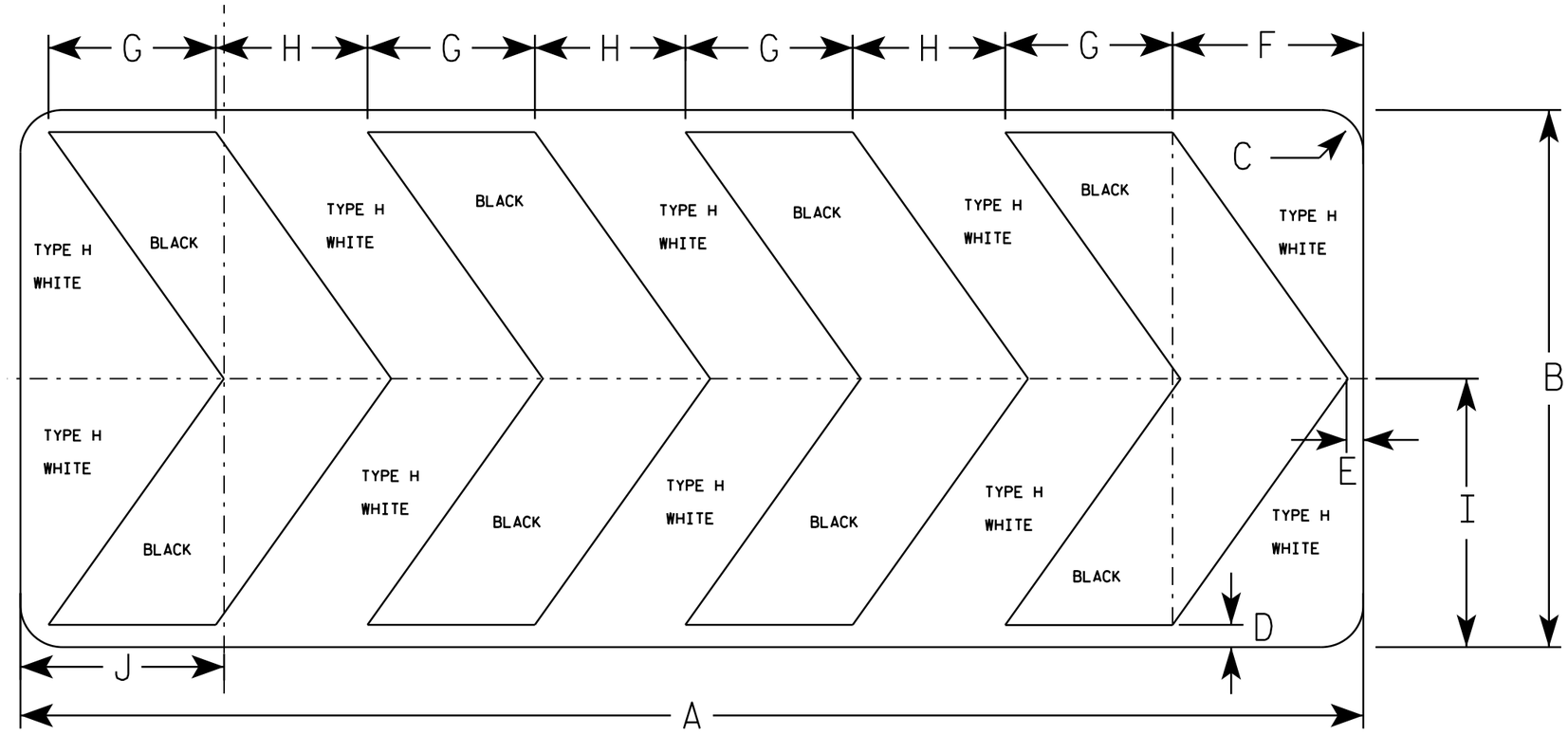
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 641	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   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.



R6-4B

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	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

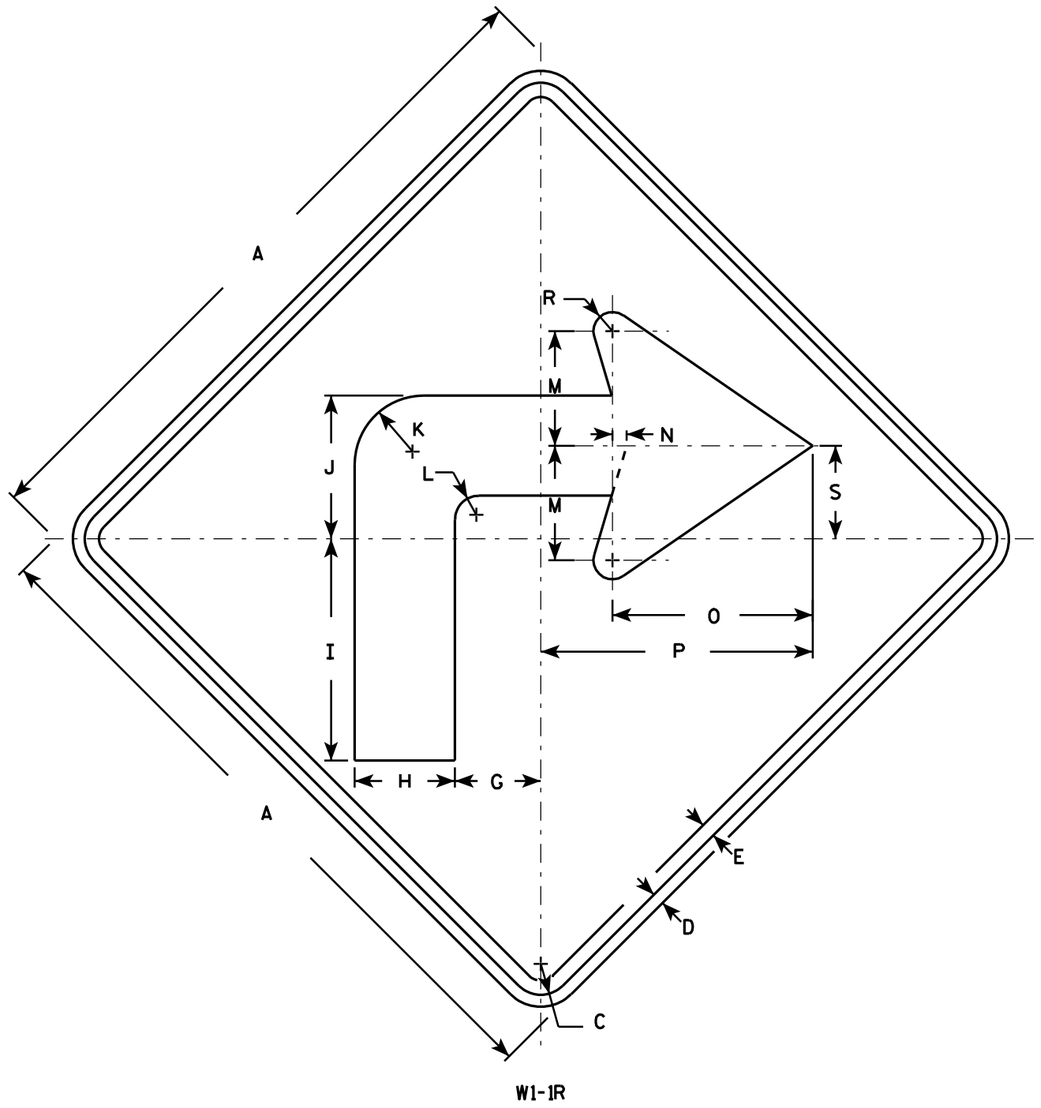
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



W1-1R

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. W1-1L is the same as W1-1R 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	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

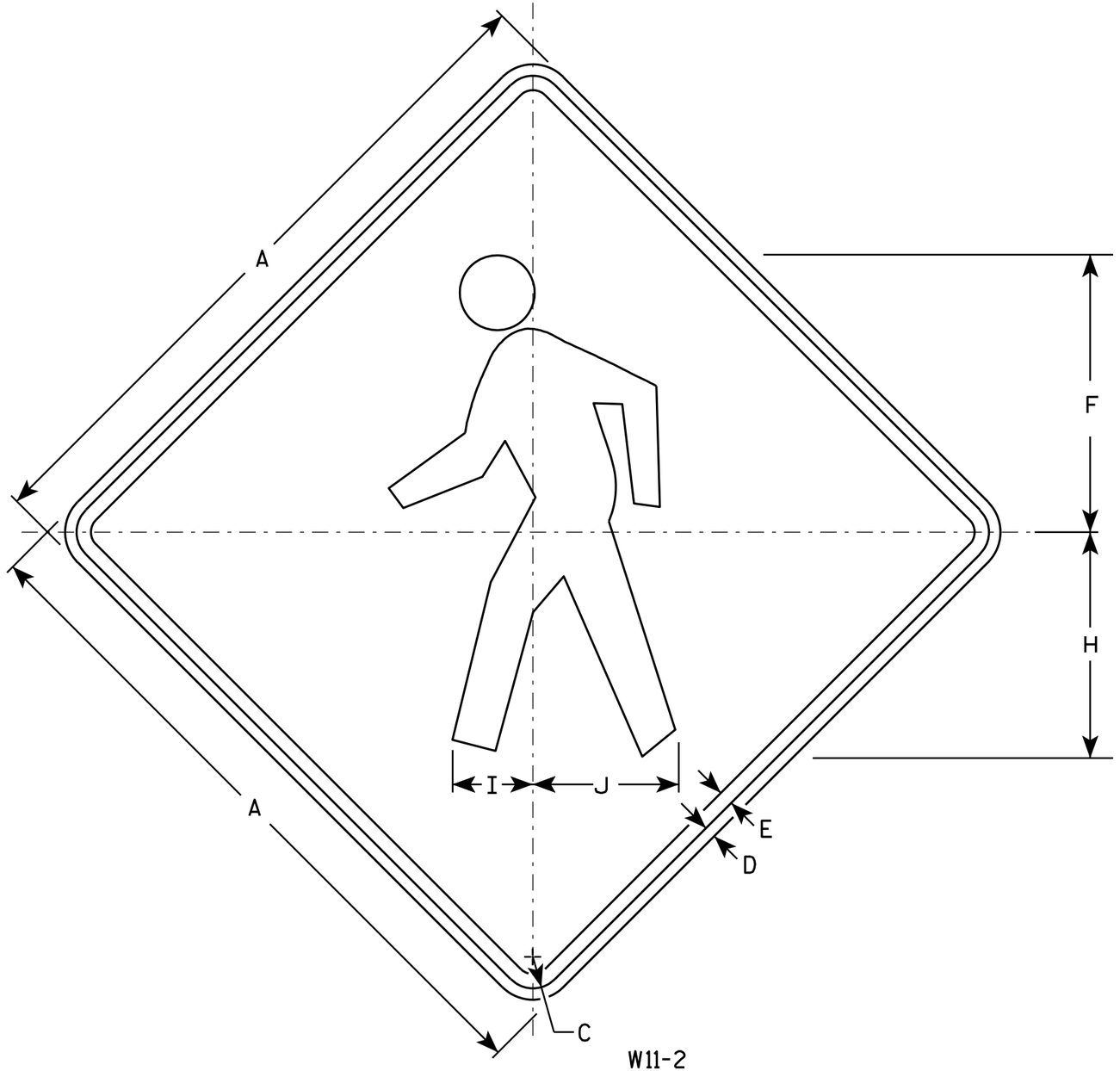
STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 643 | E



W11-2

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	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

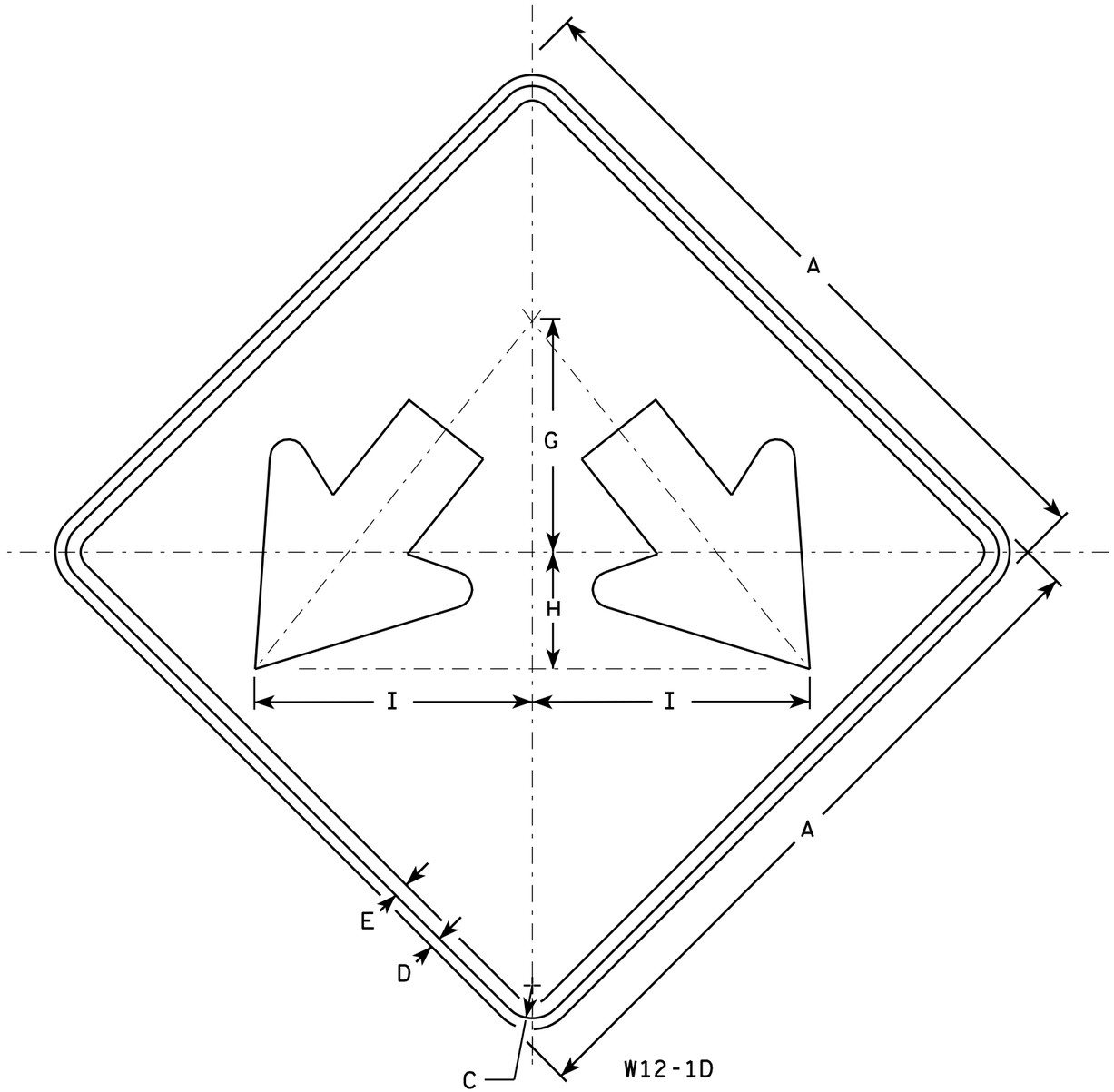
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

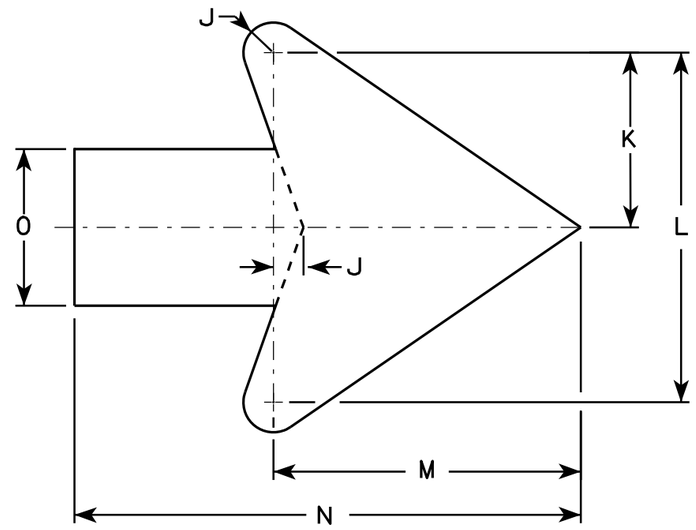
DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 644	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

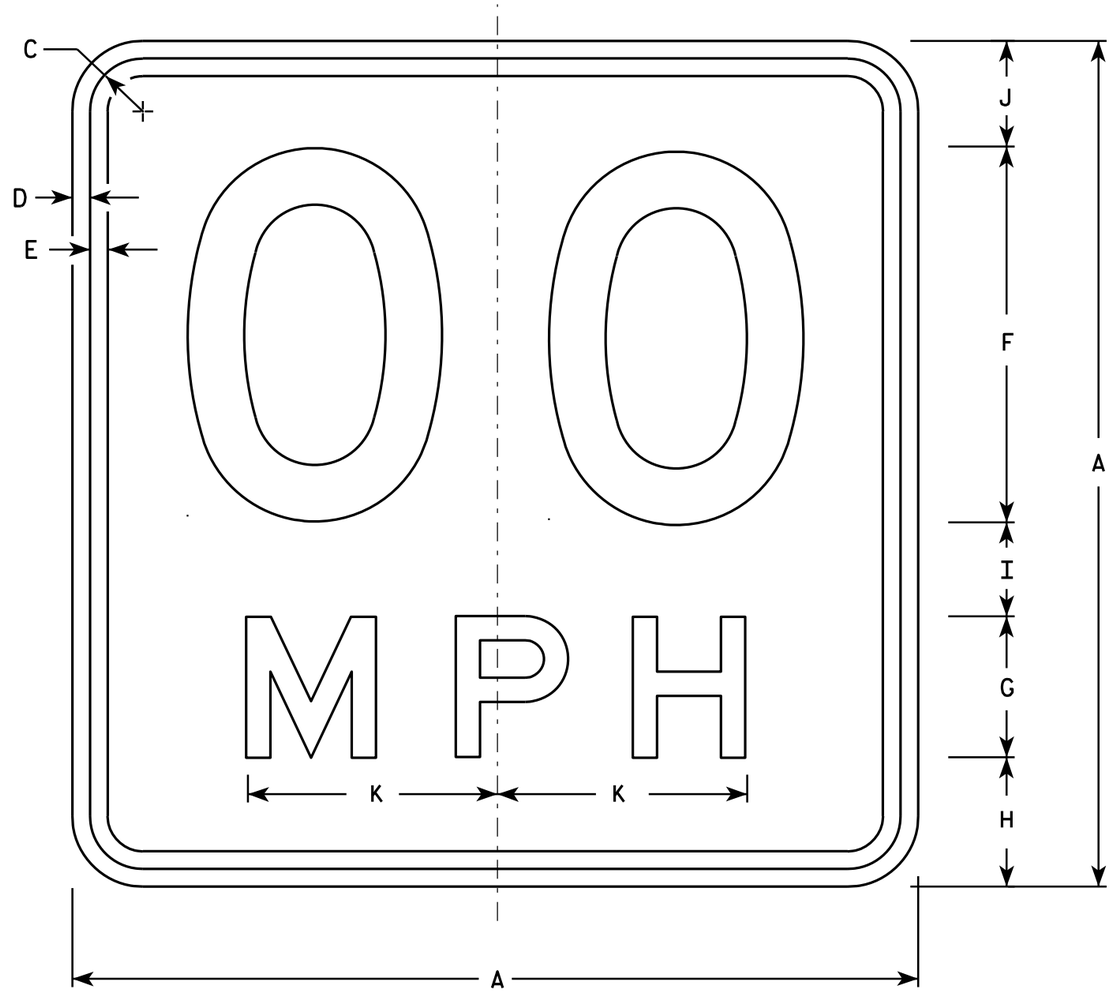
STANDARD SIGN
W12-1D

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: 645	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

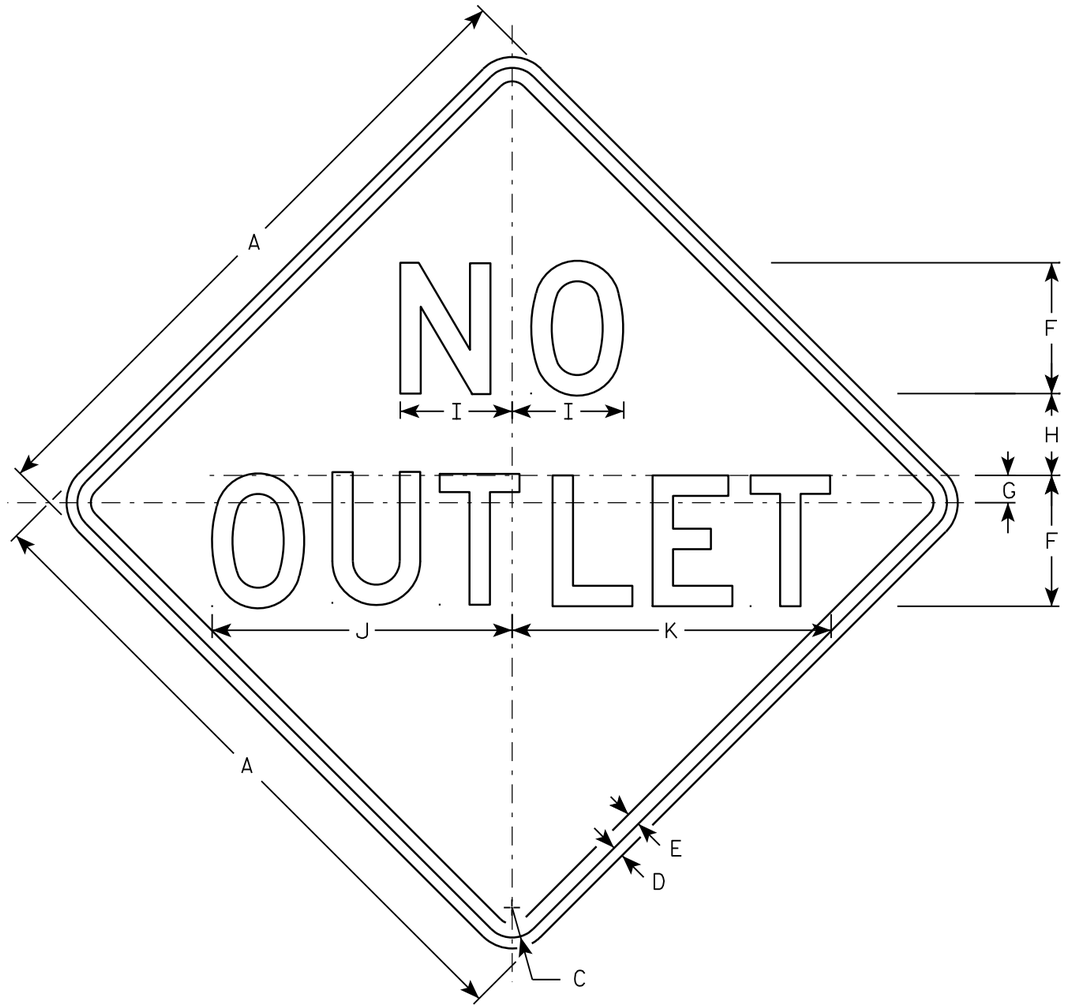
STANDARD SIGN
W13-1

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: 646 | E



W14-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2 3/4	4 1/8	11 3/4	12 3/8																4.0
2S	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
2M	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
3	36		1 5/8	5/8	3/4	7	1 3/8	4 5/8	6	16 1/8	17 1/8																9.0
4																											
5																											

STANDARD SIGN
W14-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

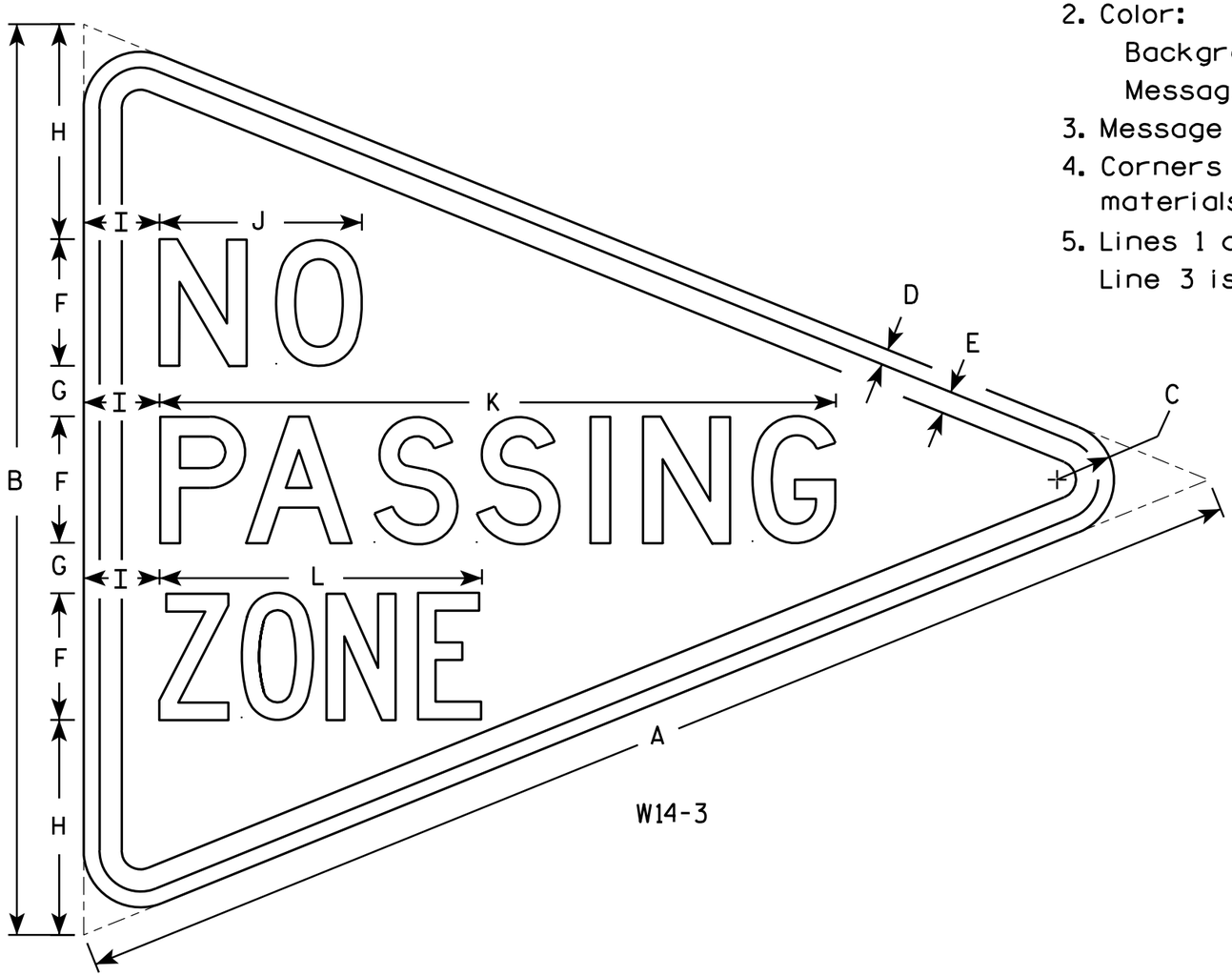
DATE 3/13/13 PLATE NO. W14-2.3

PROJECT NO:

SHEET NO: 647 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																											

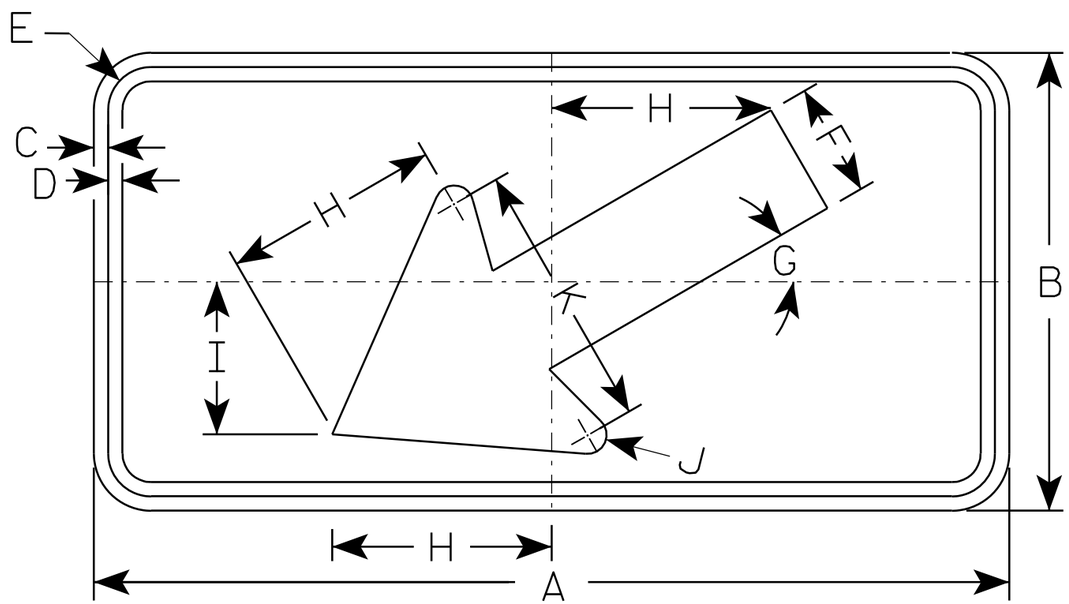
STANDARD SIGN
W14-3

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: 648	E



W16-7L

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. W16-7R is the same as W16-L 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																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

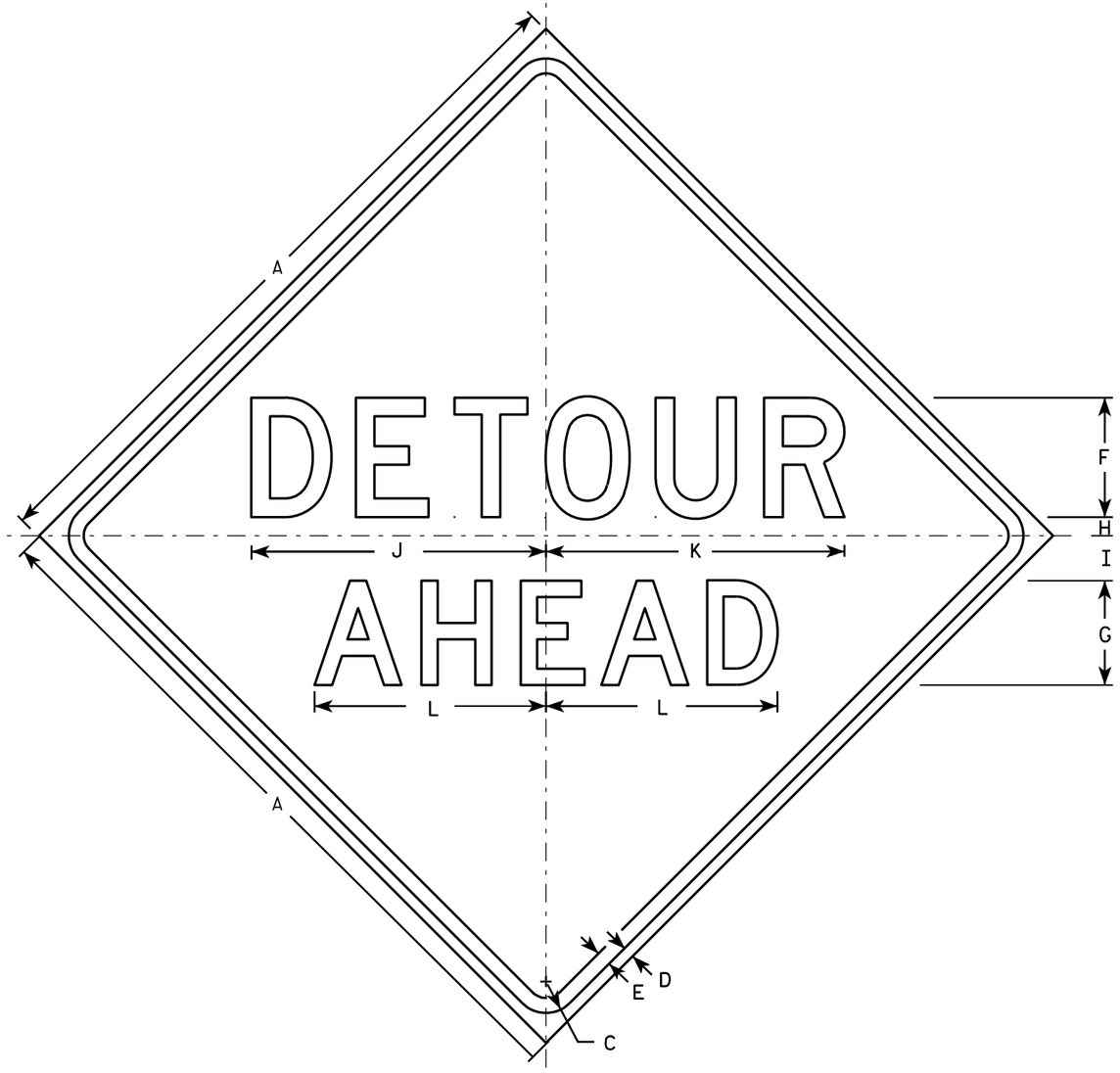
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

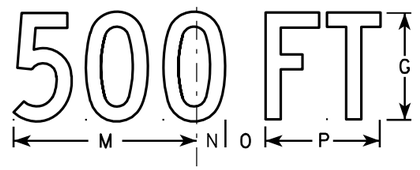
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

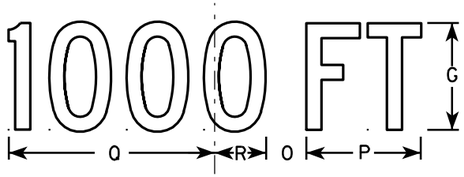
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 649	E



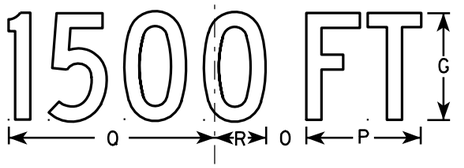
W20-2A



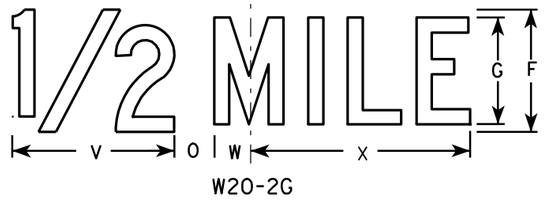
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

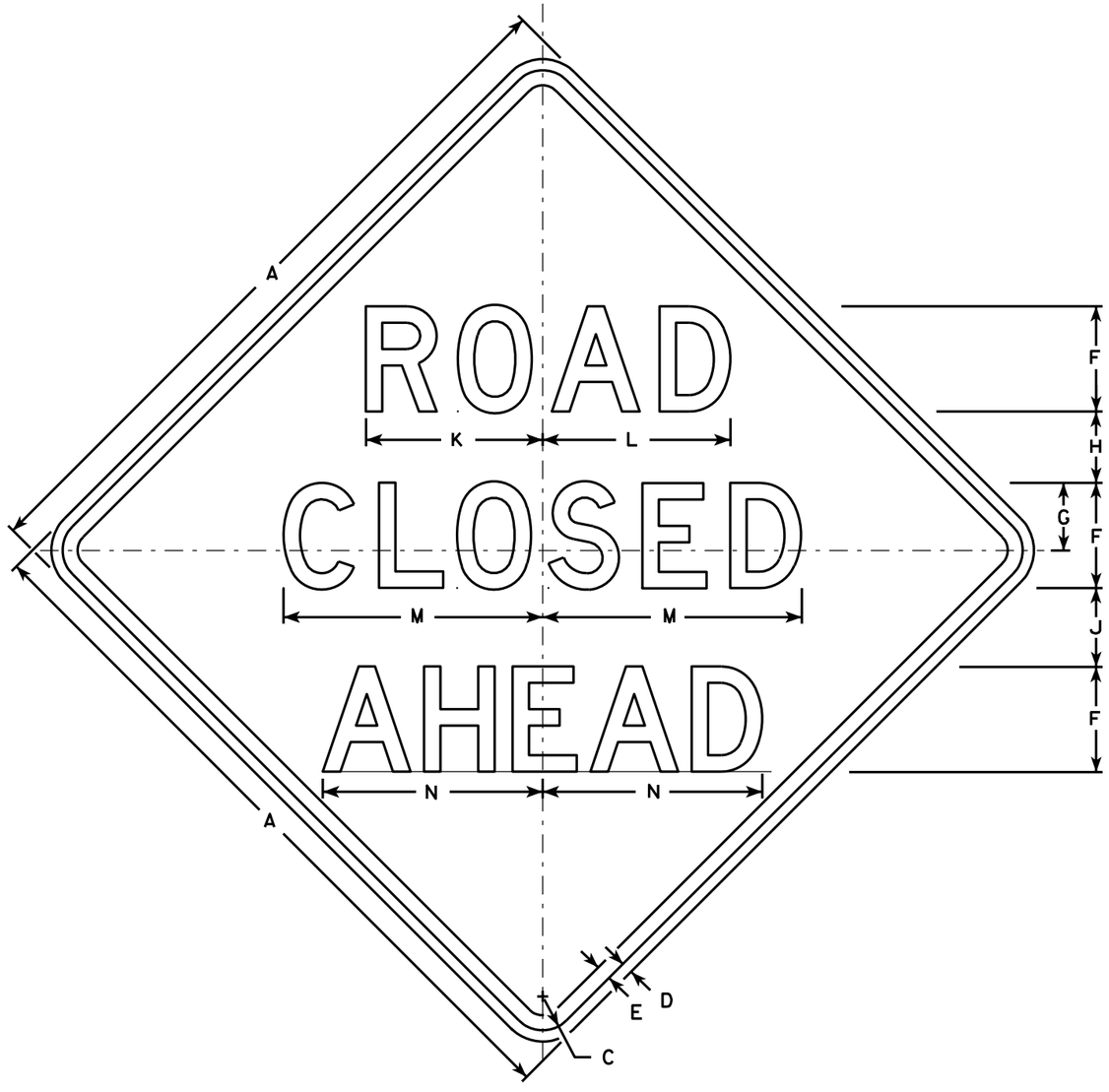
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

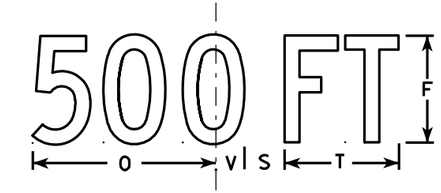
DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 650 | E

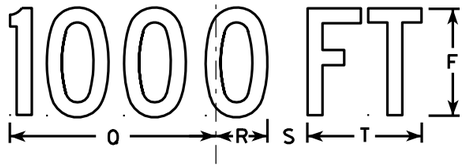
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



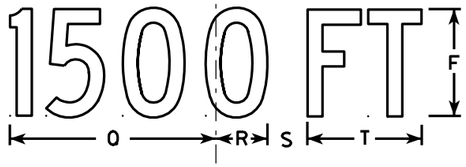
W20-3A



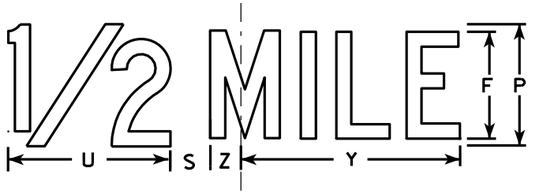
W20-3D



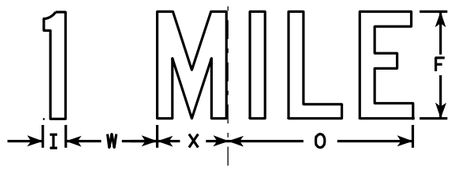
W20-3C



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.

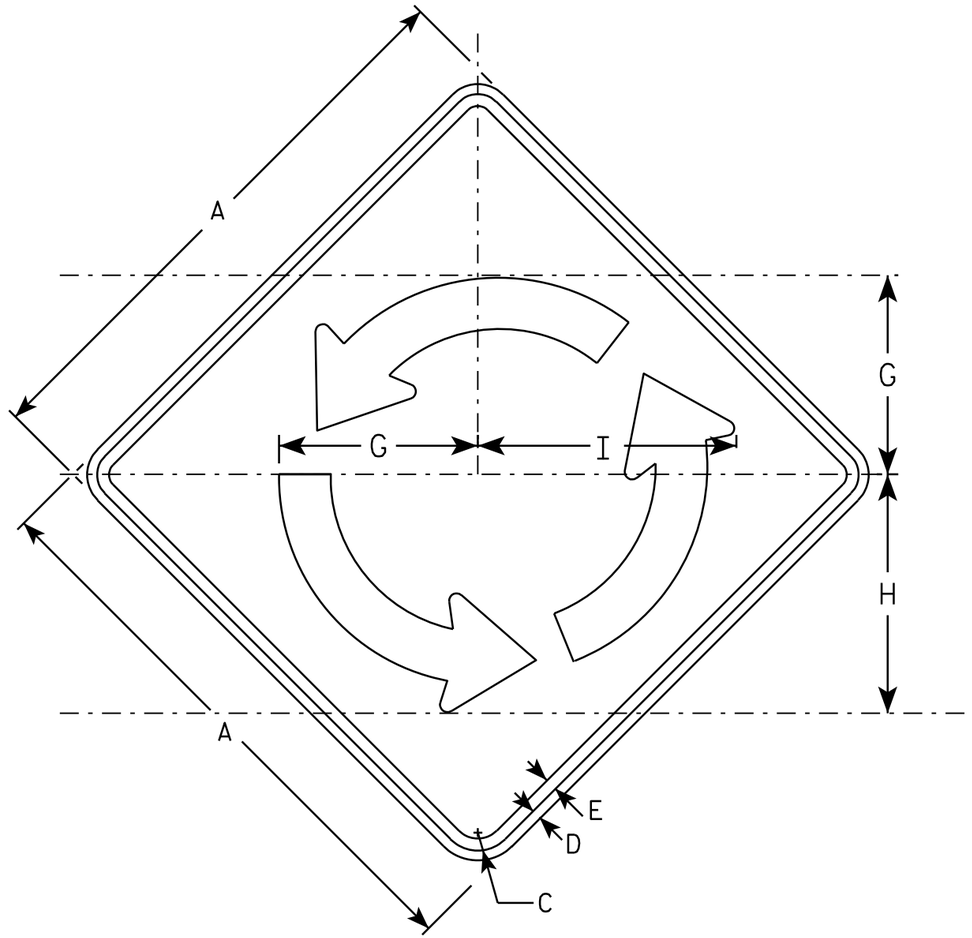
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	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

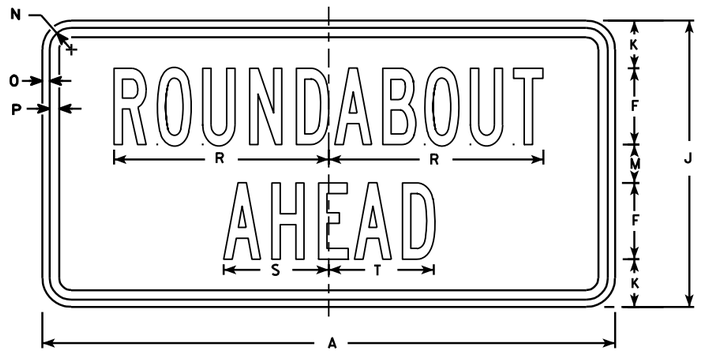
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 651 | E



W2-6

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. 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.



W2-6P

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	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

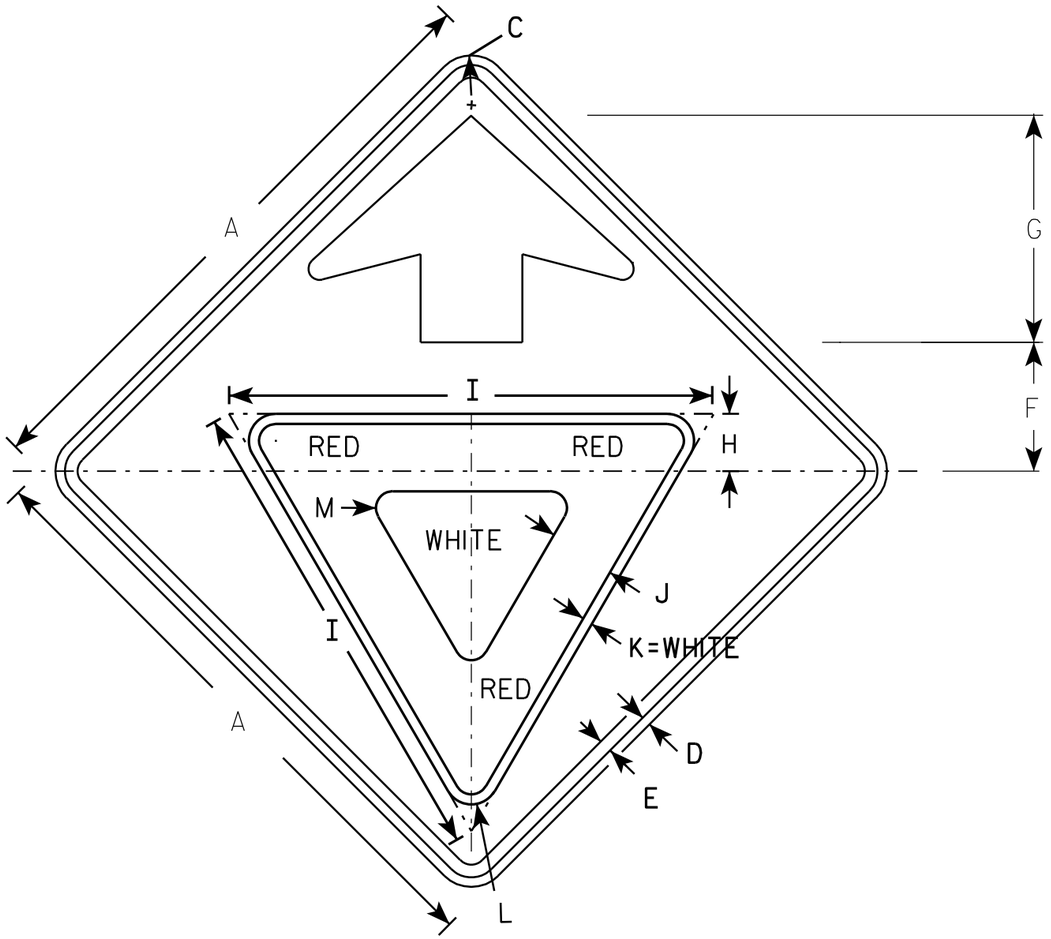
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

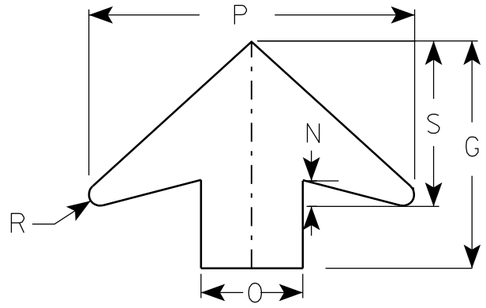
SHEET NO: 652 E



W3-2

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
   Yield 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	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

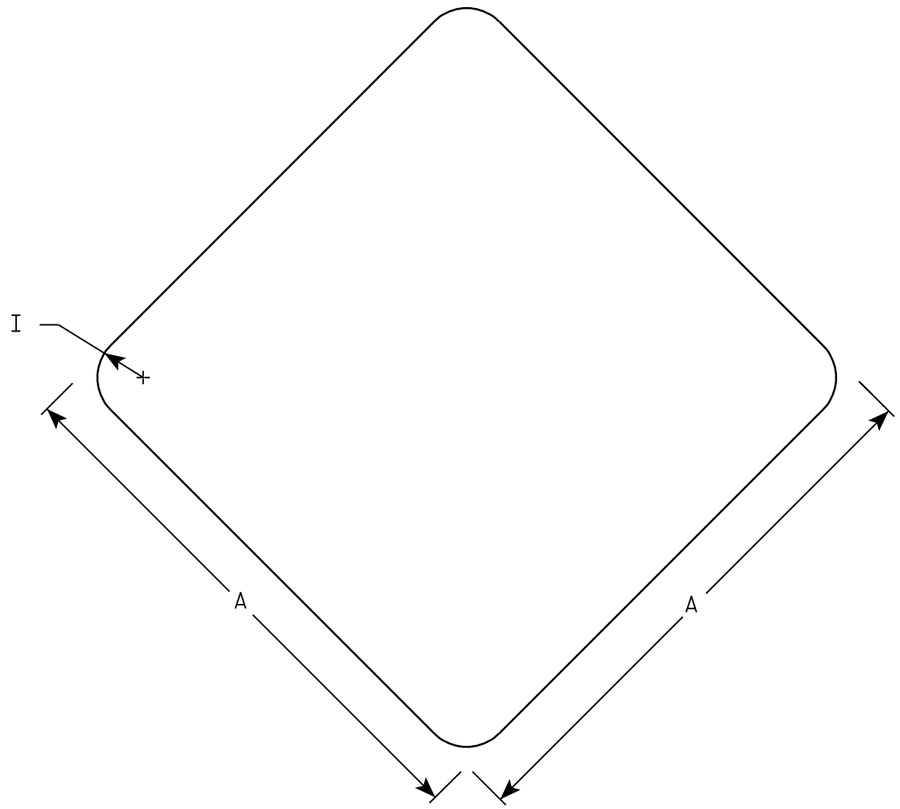
SHEET NO: 653 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W32.DGN PLOT DATE : 07-JUN-2010 13:03 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

7



W5-54

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
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners 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	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

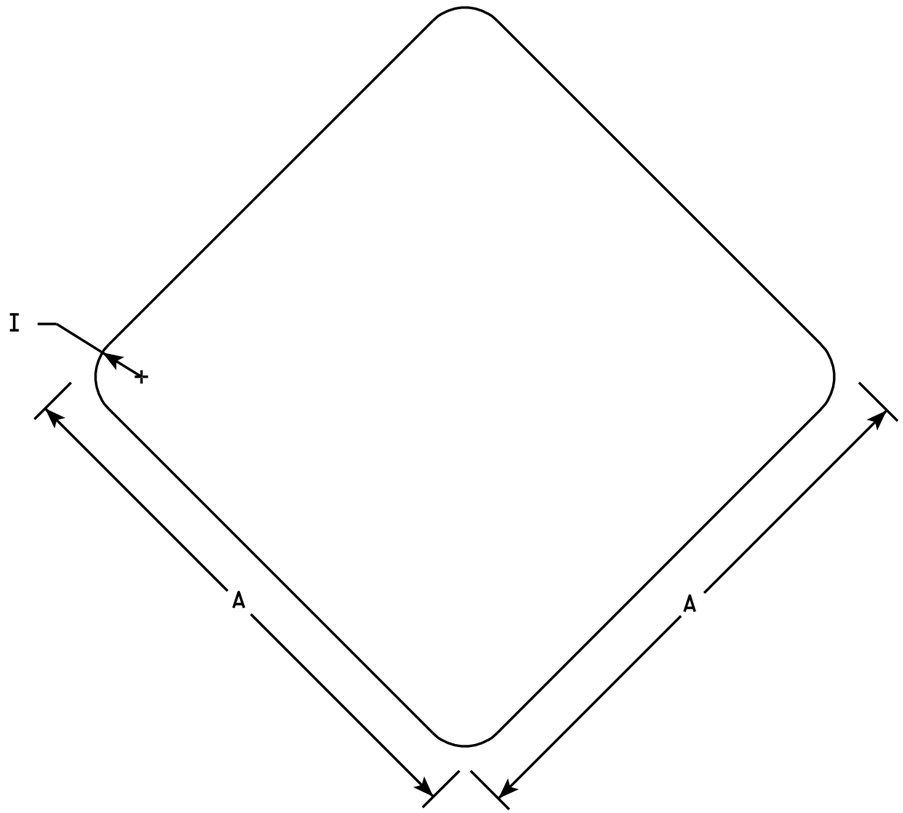
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 654	E



W5-56

NOTES

1. Sign is Type II - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners 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	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

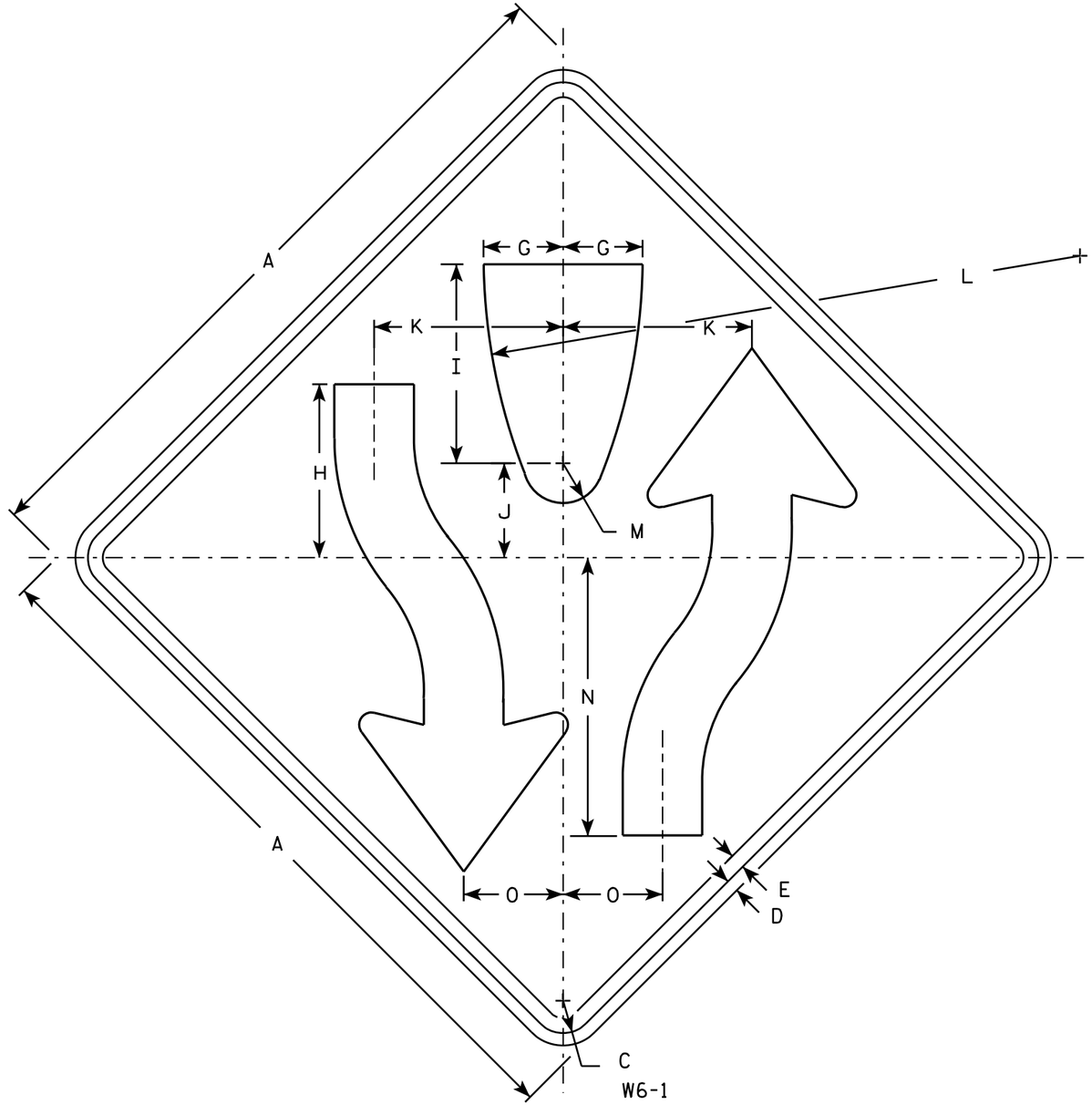
STANDARD SIGN
W5-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

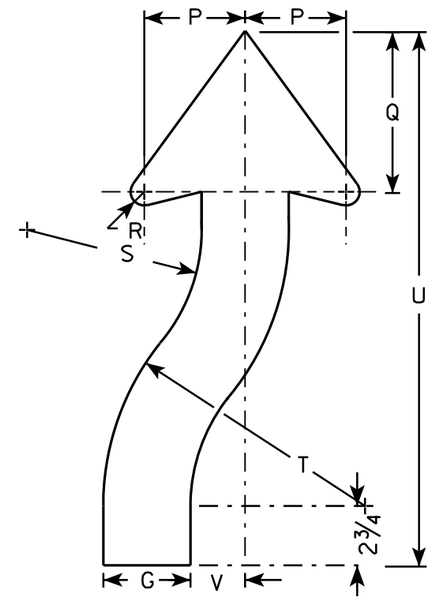
DATE 11/2/10 PLATE NO. W5-56.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 655	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. W6-2 same as W6-1 but is rotated 180° when mounted.



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		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

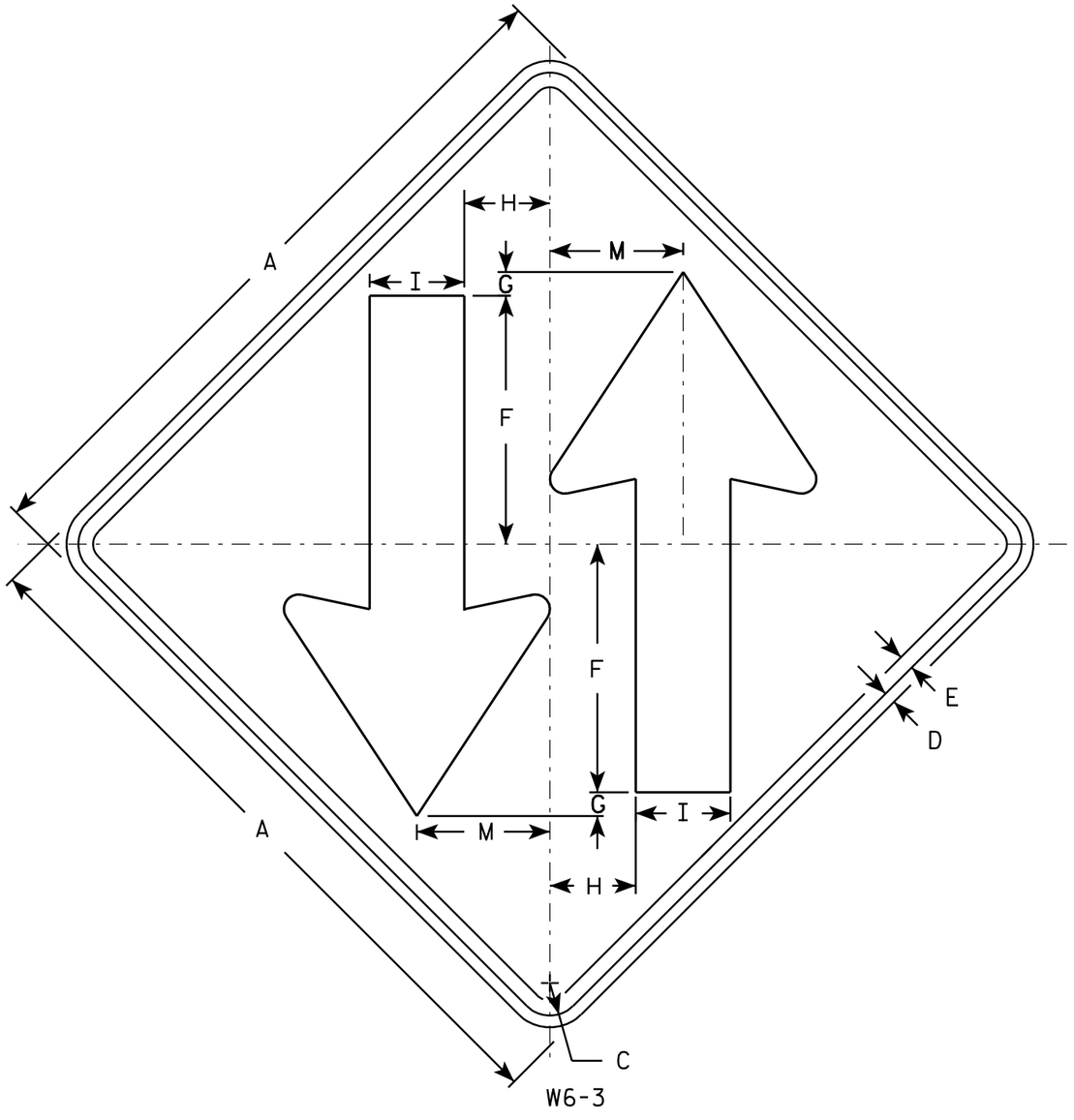
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 656	E

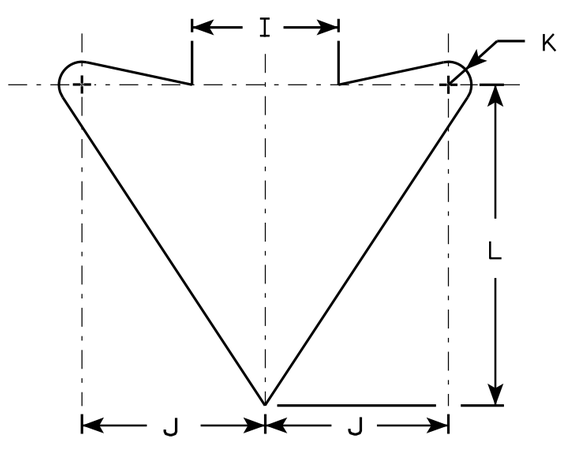
7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
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.



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	10 1/2	1	3 5/8	4	5	5/8	8 3/4	5 5/8														6.25
2S	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2M	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
3																											
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

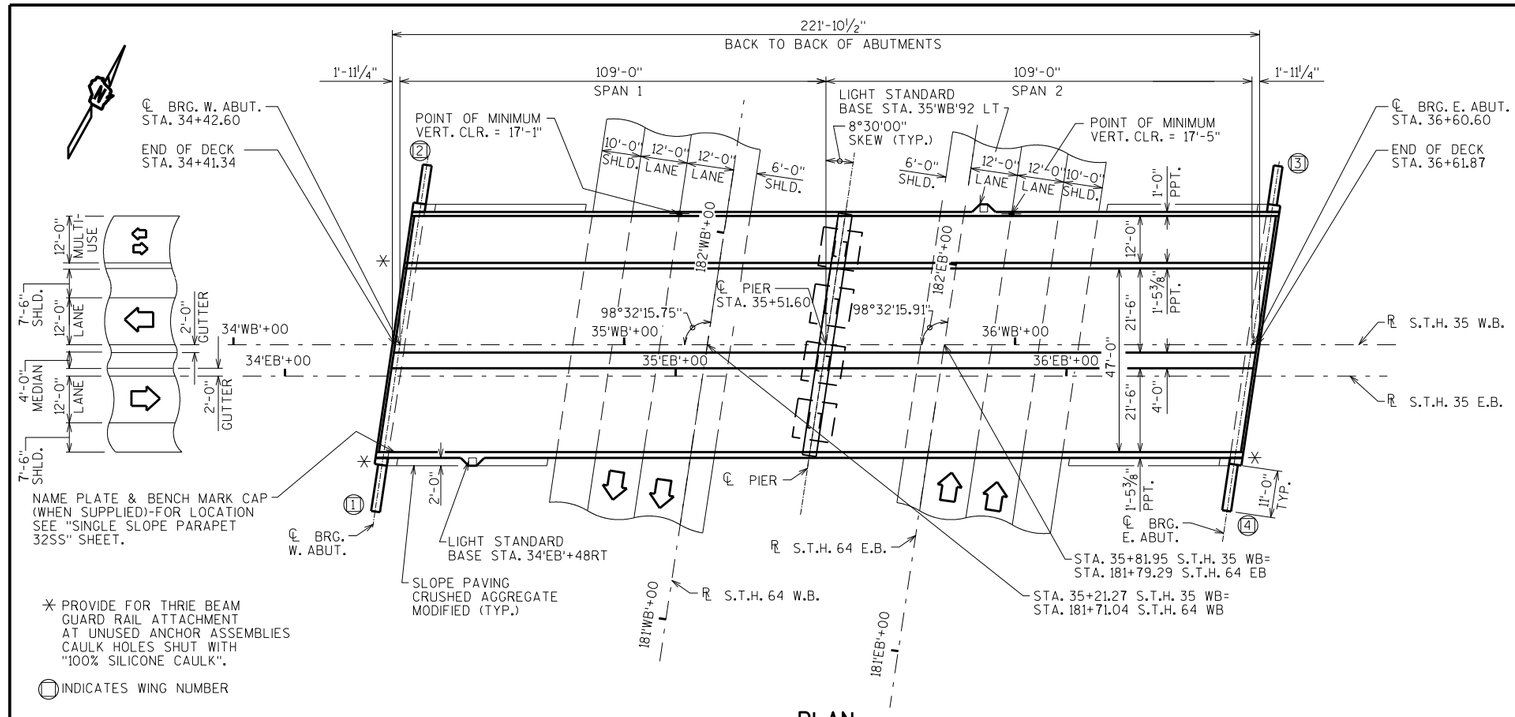
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-3.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 657	E

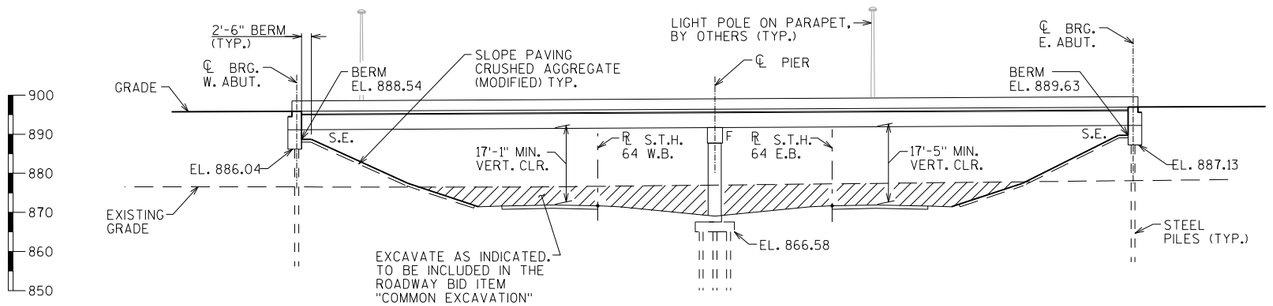
STATE PROJECT NUMBER

8110-02-72



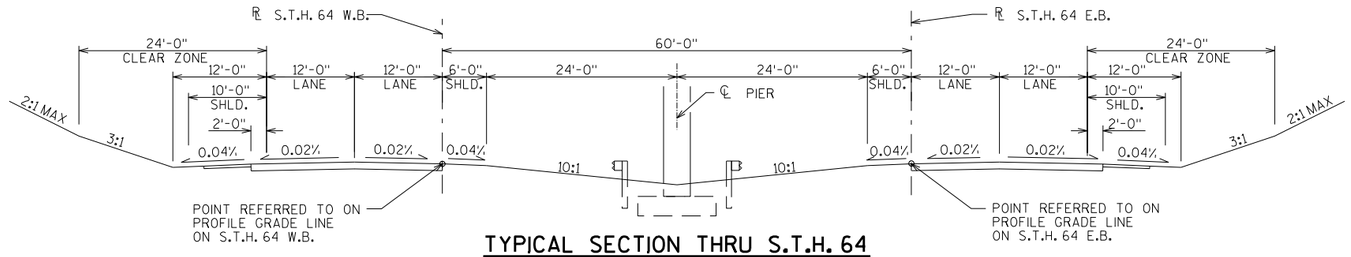
PLAN

(2) SPAN-45W PRESTRESSED GIRDERS



ELEVATION

NORMAL TO S.T.H 64



TYPICAL SECTION THRU S.T.H. 64

NORMAL TO S.T.H 64

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF= 1.08
OPERATING RATING FACTOR: RF= 1.40
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING
SURFACE OF 20 POUNDS PER SQUARE FOOT.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY DECK — f'c = 4,000 P.S.I. ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

45W" PRESTRESSED GIRDERS, CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS- 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 STEEL PILING
DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE
AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 60'-0" LONG AT THE WEST ABUTMENT. PILE POINTS REQ'D.
ESTIMATED 60'-0" LONG AT THE EAST ABUTMENT. PILE POINTS REQ'D.

PIER TO BE SUPPORTED ON HP 10 X 42 STEEL PILING
DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ** PER PILE
AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 35'-0" LONG AT PIER. PILE POINTS REQ'D.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

S.T.H. 35	S.T.H. 64
A.D.T.=8250 (2035)	A.D.T.=38,550 (2035)
R.D.S.=50 M.P.H.	R.D.S.=70 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & GENERAL NOTES
3. QUANTITIES
4. SUBSURFACE EXPLORATION
5. WEST ABUTMENT
6. WEST ABUTMENT DETAILS
7. EAST ABUTMENT
8. EAST ABUTMENT DETAILS
9. PIER
10. PIER DETAILS
11. 45W" PRESTRESSED GIRDER DETAILS 1
12. 45W" PRESTRESSED GIRDER DETAILS 2
13. STEEL DIAPHRAGM
14. SUPERSTRUCTURE CROSS SETION
15. SUPERSTRUCTURE PLAN
16. SUPERSTRUCTURE DETAILS
17. VERTICAL FACE PARAPET "A"
18. SINGLE SLOPE PARAPET 42SS
19. SINGLE SLOPE PARAPET 32SS
20. PARAPET "A" ELECTRICAL WORK
21. SINGLE SLOPE PARAPET 32SS ELECTRICAL WORK
22. ORNAMENTAL PROTECTIVE SCREENING
23. AESTHETIC DETAILS
24. SLOPE PAVING CRUSHED AGGREGATE (MODIFIED)
25. ALTERNATE CONSTRUCTION JOINT

STRUCTURE DESIGN CONTACTS:

JAMES LUEBKE (608) 266-5098
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher (for) 8/4/14
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-55-226

S.T.H. 35 OVER S.T.H. 64

COUNTY	TOWN/~~CITY/VILLAGE~~
ST. CROIX	ST. JOSEPH

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JDL	JLR	WWR	JLR

GENERAL PLAN

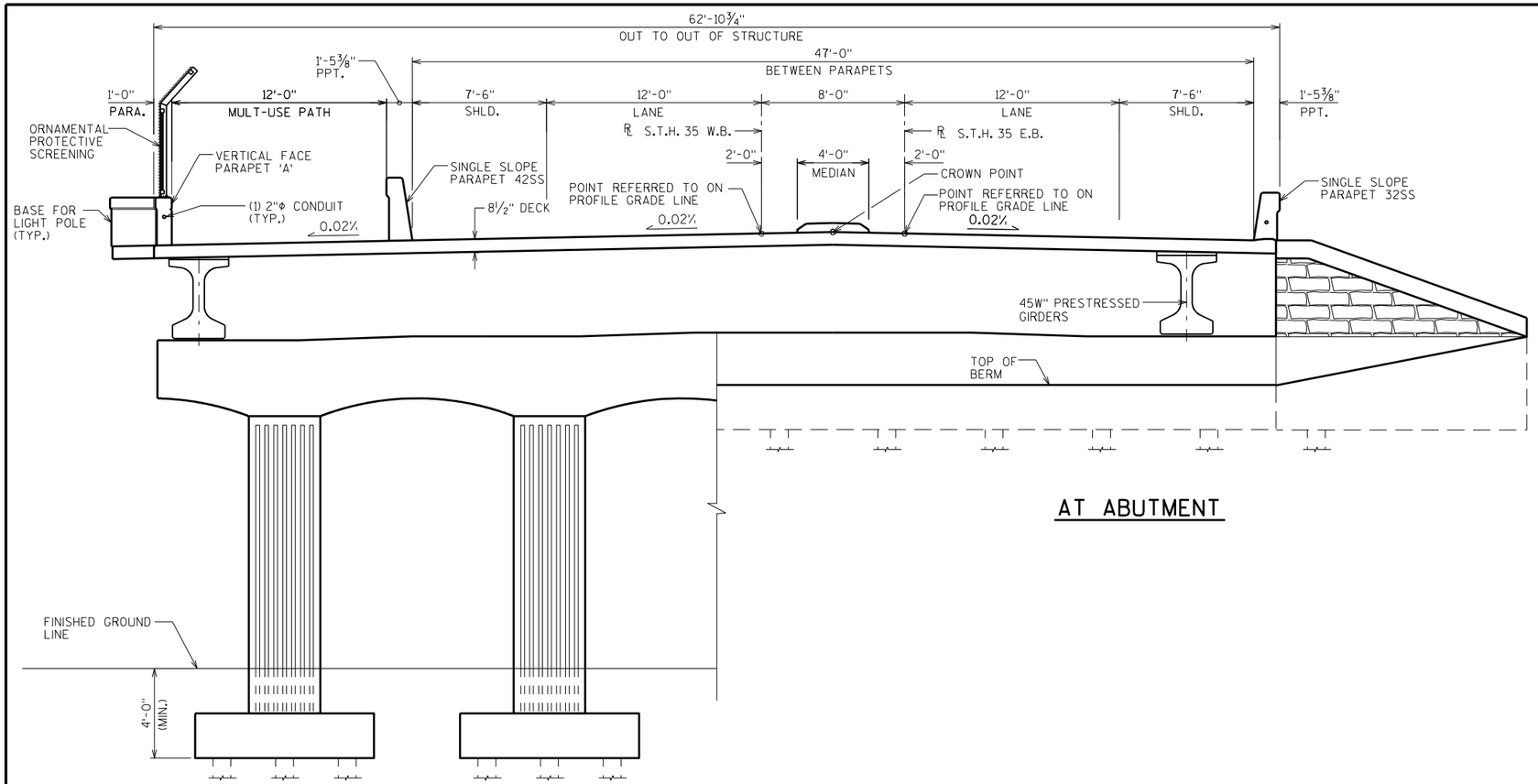
SHEET 1 OF 25

658

I.D. 8110-02-01B

DATE: AUG. 2014

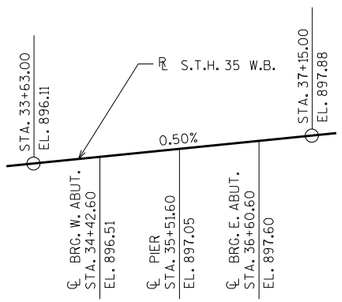
SCALE =



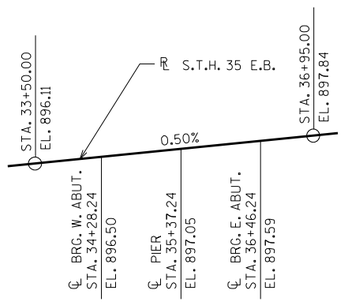
AT ABUTMENT

AT PIER

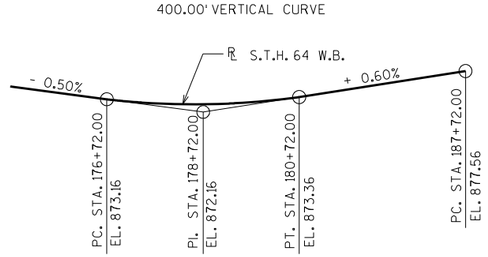
CROSS SECTION THRU ROADWAY LOOKING EAST



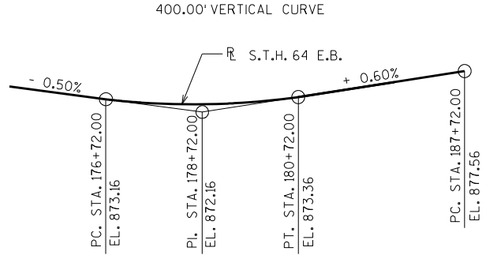
PROFILE GRADE LINE
ON S.T.H. 35 W.B.



PROFILE GRADE LINE
ON S.T.H. 35 E.B.



PROFILE GRADE LINE
ON S.T.H. 64 W.B.



PROFILE GRADE LINE
ON S.T.H. 64 E.B.

STATE PROJECT NUMBER

8110-02-72

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

THE GROUND LINE, BELOW ROADWAY "COMMON EXCAVATION," AS SHOWN ON SHEET 1, SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK & MEDIAN SURFACE AND THE INSIDE FACE AND THE TOP OF THE PARAPETS. ALSO, APPLY TO THE BACK FACE OF THE 42SS (ON DECK) PARAPET.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

SLOPE PAVING CRUSHED AGGREGATE (MODIFIED) SHALL USE A CLEAR BINDER IN LIEU OF ASPHALTIC MATERIAL.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY JDL | PLANS CK'D. JLR

CROSS SECTION & GENERAL NOTES

SHEET 2

659

SCALE = 3.75

8

8

STATE PROJECT NUMBER
8110-02-72

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST ABUT.	PIER	EAST ABUT.	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-55-226	LS	———	———	———	———	1
210.0100	BACKFILL STRUCTURE	CY	———	285	———	285	570
502.0100	CONCRETE MASONRY BRIDGES	CY	598	53	107	53	811
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,850	———	———	———	1,850
503.0146	PRESSTRESSED GIRDER TYPE I 45W-INCH	LF	1,750	———	———	———	1,750
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	———	3,650	3,420	3,650	10,720
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	117,370	910	18,780	910	137,970
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	———	8	16	8	32
506.4000	STEEL DIAPHRAGMS B-55-226	EACH	28	———	———	———	28
513.4090	RAILING TUBULAR SCREENING B-55-226	LS	———	———	———	———	1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	17	———	17	34
517.1010.S	CONCRETE STAINING B-55-226	SF	5,000	———	1,750	———	6,750
517.1015.S	CONCRETE STAINING MULTI-COLOR B-55-226	SF	———	54	———	54	108
517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-55-226	SF	———	54	———	54	108
550.0500	PILE POINTS	EACH	———	13	36	13	62
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	———	780	1,260	780	2,820
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	105	———	105	210
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	3	———	———	———	3
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	460	———	———	———	460
653.0222	JUNCTION BOXES 18 X 12 X 6-INCH	EACH	2	———	———	———	2
657.6005.S	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	2	———	———	———	2
SPV.0180	SLOPE PAVING CRUSHED AGGREGATE (MODIFIED)	SY	———	315	———	320	635
	NON-BID ITEMS						
	FILLER	SIZE	———	———	———	———	1/2" & 3/4"
	NON-BITUMINOUS JOINT SEALER		———	———	———	———	

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

QUANTITIES

SHEET 3

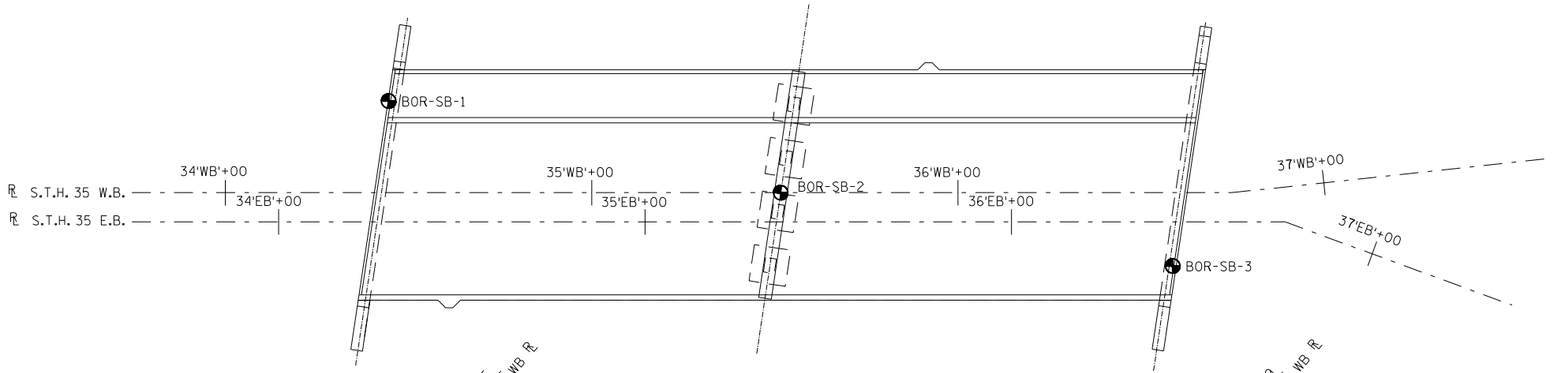
660

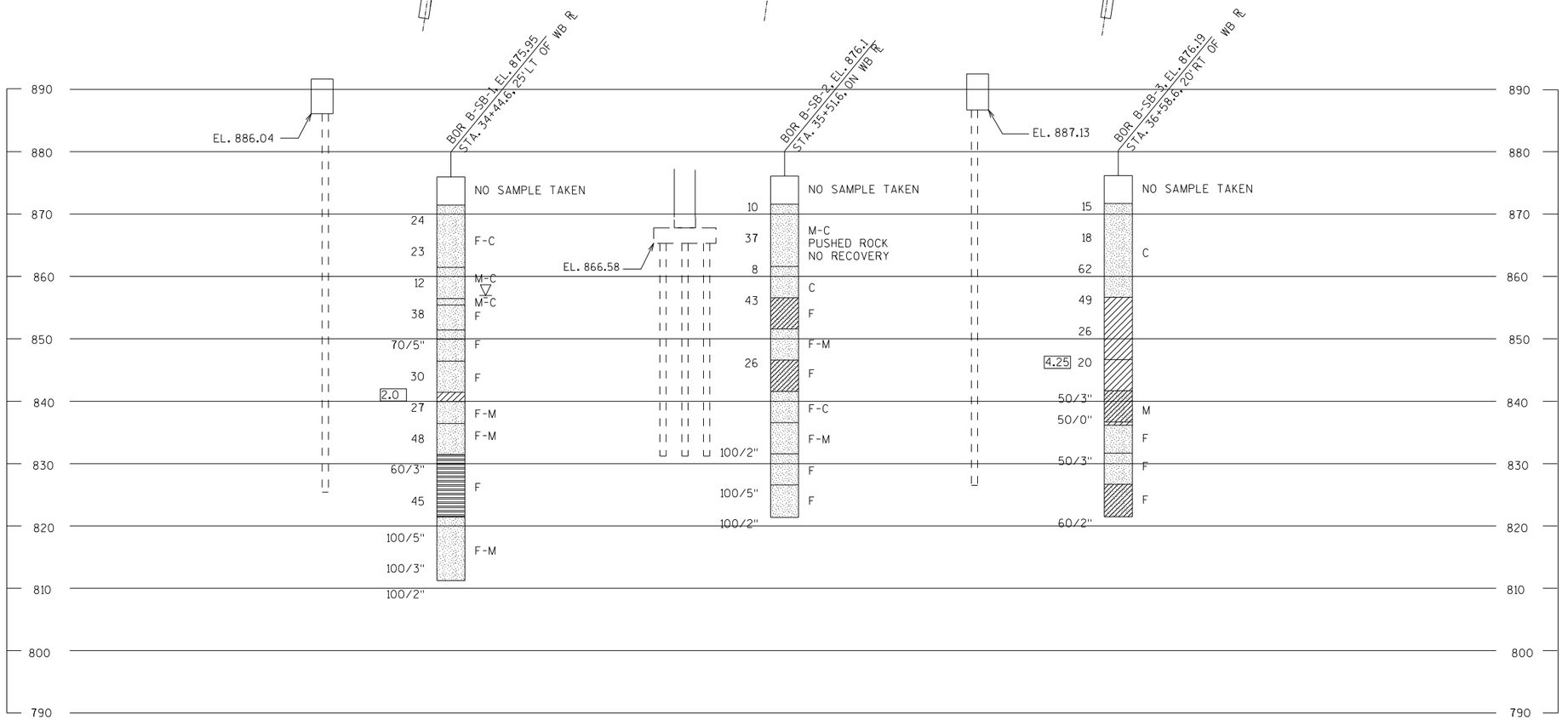
SCALE = 3.75

STILLWATER - SOMERSET

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
SB-1	11/14/2013	373280.4856	504854.0438
SB-2	11/13/2013	373287.7344	504963.6864
SB-3	11/13/2013	373299.7664	505071.8727

BORINGS COMPLETED BY: AMERICAN ENGINEERING TESTING
REPORT COMPLETED BY: WISDOT
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) ST CROIX COUNTY





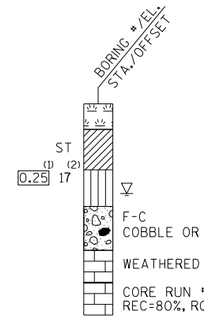
STATE PROJECT NUMBER

8110-02-72

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY PR | PLANS CK'D. JLR

SUBSURFACE EXPLORATION

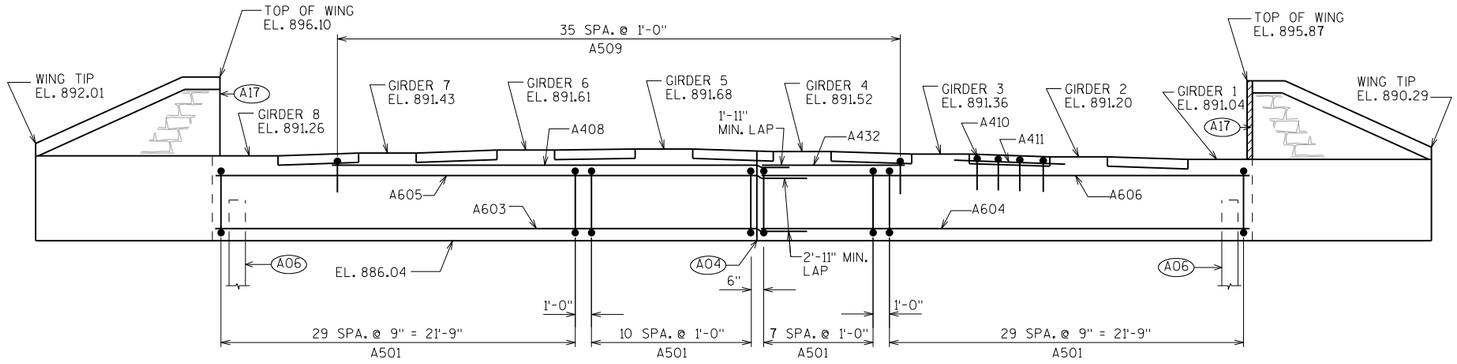
SHEET 4

661

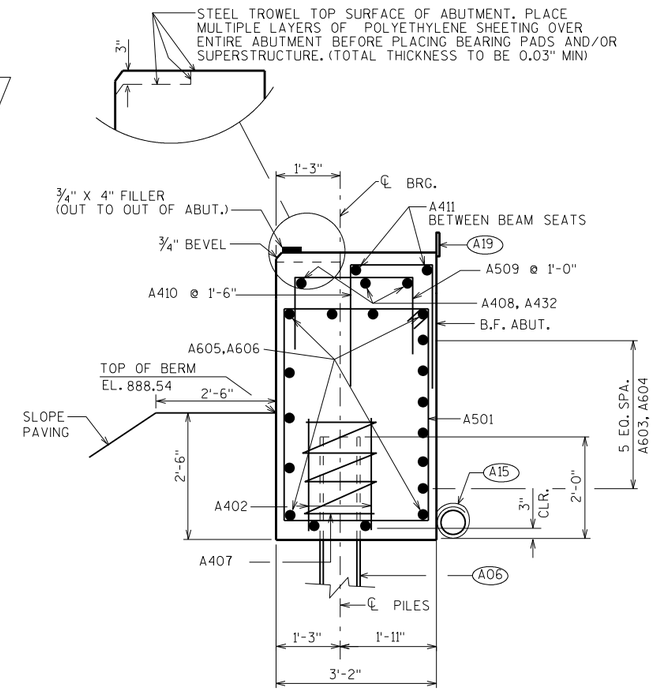
SCALE =

STATE PROJECT NUMBER

8110-02-72



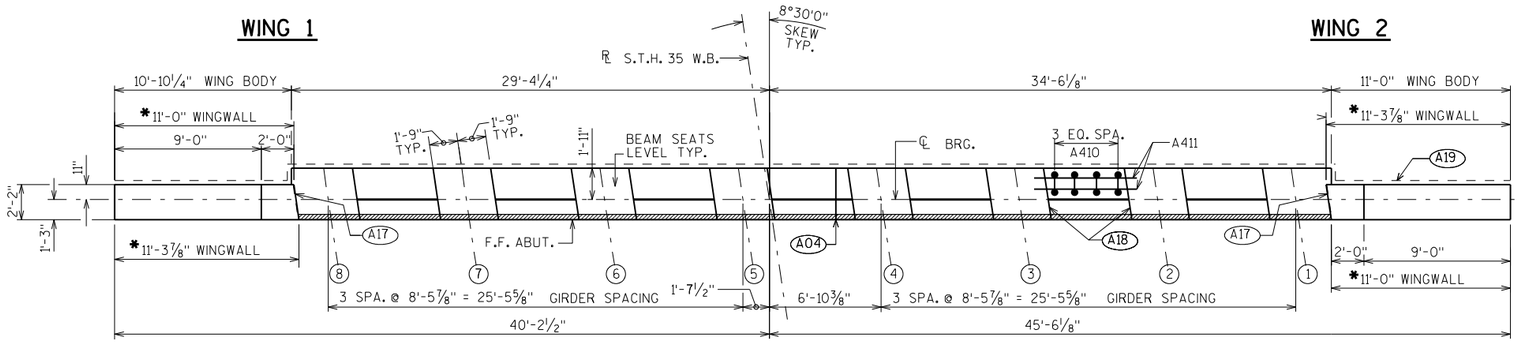
ELEVATION LOOKING WEST



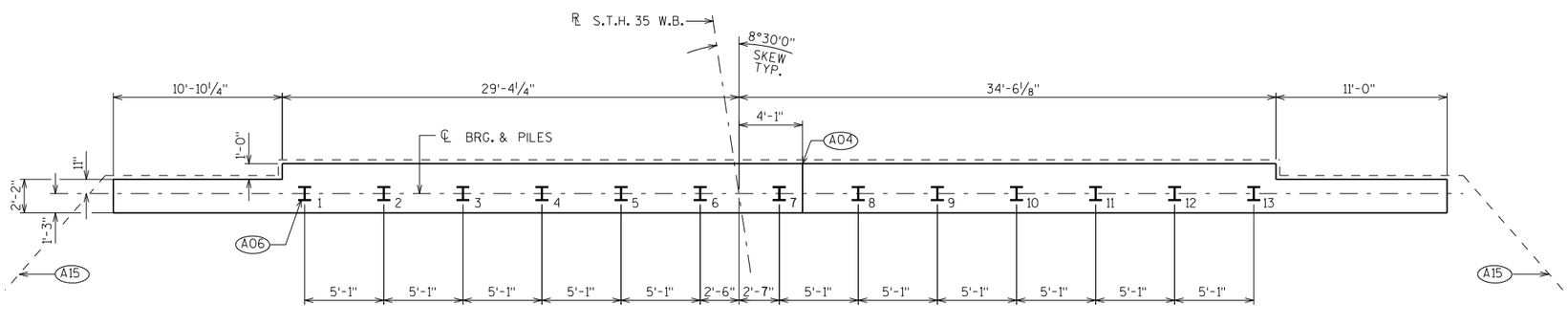
SECTION THRU BODY

WING 1

WING 2



PLAN



PILE PLAN

* INCLUDES 1/2" FILLER

(A04) VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2 x 8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" R.M.W. @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

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(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

WEST ABUTMENT

SHEET 5

662

SCALE =

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" R.M.W. @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

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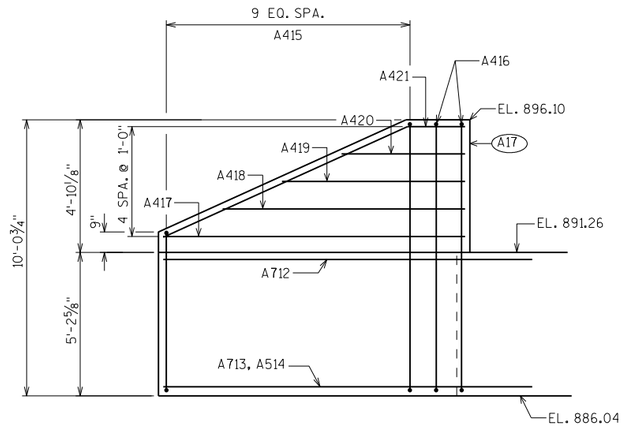
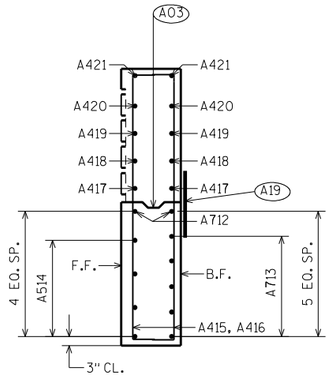


WING 1 ELEVATION



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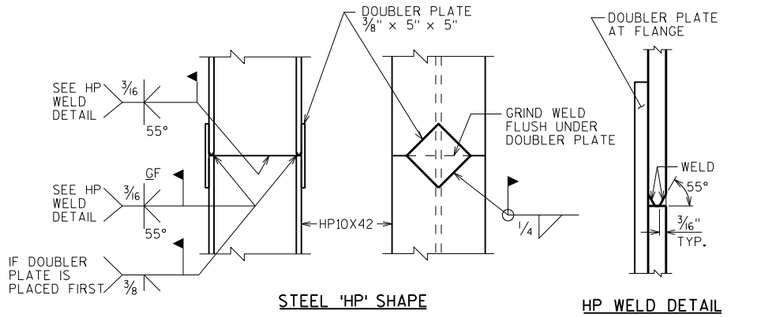
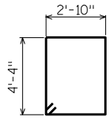


STEEL 'HP' SHAPE

HP WELD DETAIL
FLANGE SHOWN, WEB SIMILAR

PILE DETAILS



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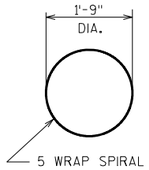
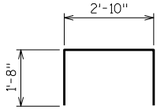


5 WRAP SPIRAL

A407



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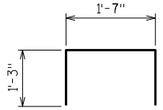

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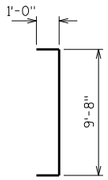

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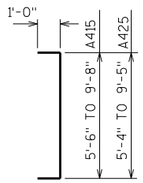
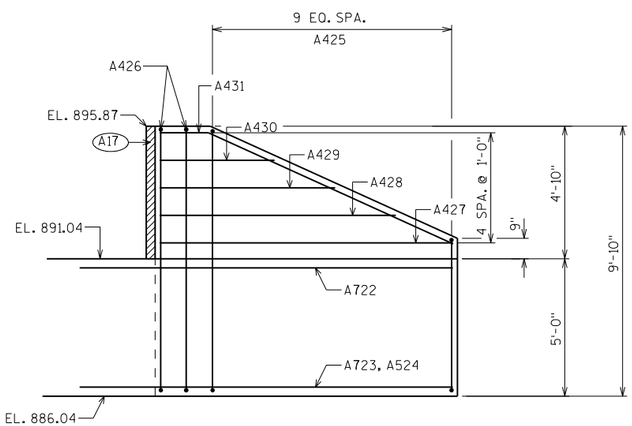


A415, A425

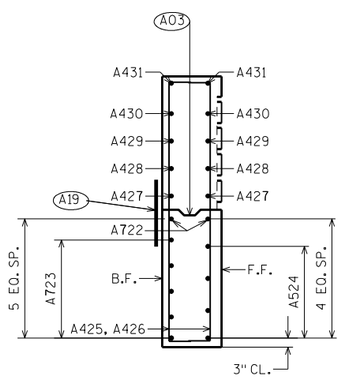
BILL OF BARS

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

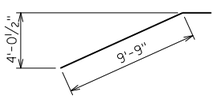
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		79	15'-0"	X		BODY-STIRRUPS
A402		26	2'-3"			PILES- 2 PER PILE
A603		6	36'-5"			BODY-HORIZONTAL
A604		6	30'-2"			BODY-HORIZONTAL
A605		11	36'-5"			BODY-HORIZONTAL
A606		11	30'-2"			BODY-HORIZONTAL
A407		13	28'-0"	X		PILES-1 PER PILE
A408		3	28'-4"			BODY-HORZ. @ GIRS. 4-7
A509		36	5'-11"	X		BODY-TOP @ GIRS. 4-7
A410		28	3'-11"	X		BODY-BETWEEN BEAM SEATS
A411		14	7'-0"			BODY-HORZ. EXT
A712	X	2	13'-7"			WING 1-HORIZONTAL
A713	X	5	13'-7"			WING 1-HORIZONTAL
A514	X	4	12'-7"			WING 1-HORIZONTAL
A415	X	20	9'-5"	X	▲	WING 1-VERTICAL
A416	X	4	11'-6"	X		WING 1-VERTICAL
A417	X	2	10'-8"			WING 1-HORIZONTAL
A418	X	2	8'-7"			WING 1-HORIZONTAL
A419	X	2	6'-6"			WING 1-HORIZONTAL
A420	X	2	4'-4"			WING 1-HORIZONTAL
A421	X	2	11'-9"	X		WING 1-TOP HORIZONTAL
A722	X	2	13'-7"			WING 2-HORIZONTAL
A723	X	5	13'-7"			WING 2-HORIZONTAL
A524	X	4	12'-7"			WING 2-HORIZONTAL
A425	X	20	9'-2"	X	▲	WING 2-VERTICAL
A426	X	4	11'-3"	X		WING 2-VERTICAL
A427	X	2	10'-8"			WING 2-HORIZONTAL
A428	X	2	8'-7"			WING 2-HORIZONTAL
A429	X	2	6'-4"			WING 2-HORIZONTAL
A430	X	2	4'-2"			WING 2-HORIZONTAL
A431	X	2	11'-9"	X		WING 2-TOP HORIZONTAL
A432		3	9'-1"			BODY-HORZ. @ GIR. 4



WING 2 ELEVATION



WING 2 SECTION



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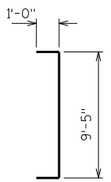

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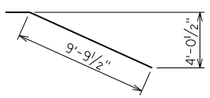


A431

BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

MARK	NO. REQD.	LENGTH
A415	2 SERIES OF 10	7'-4" TO 11'-6"
A425	2 SERIES OF 10	7'-2" TO 11'-3"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

WEST ABUTMENT DETAILS

SHEET 6

663

STATE PROJECT NUMBER

8110-02-72

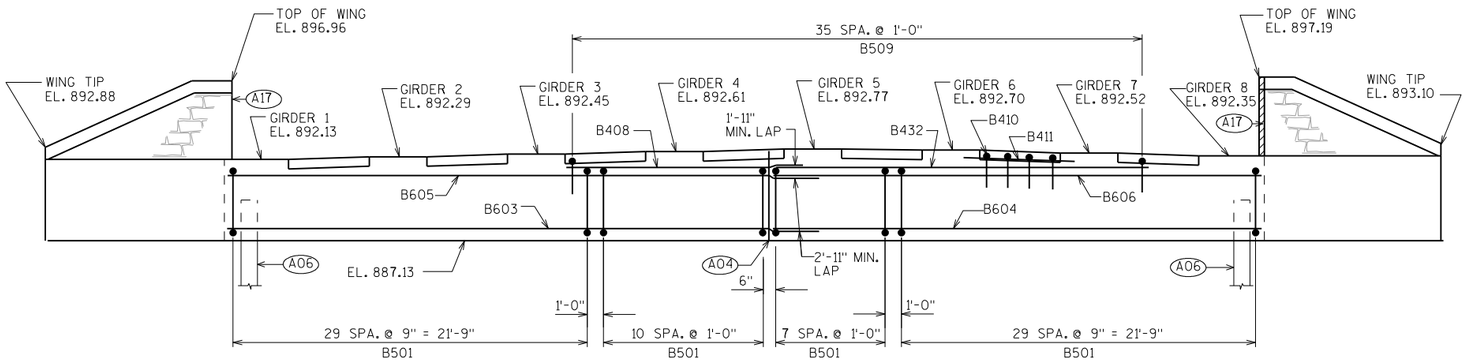
8

8

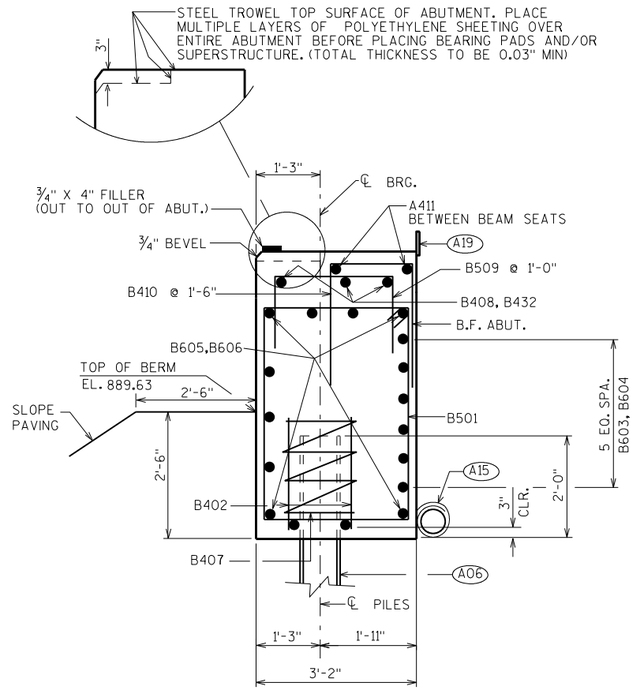
SCALE = 3.75

STATE PROJECT NUMBER

8110-02-72



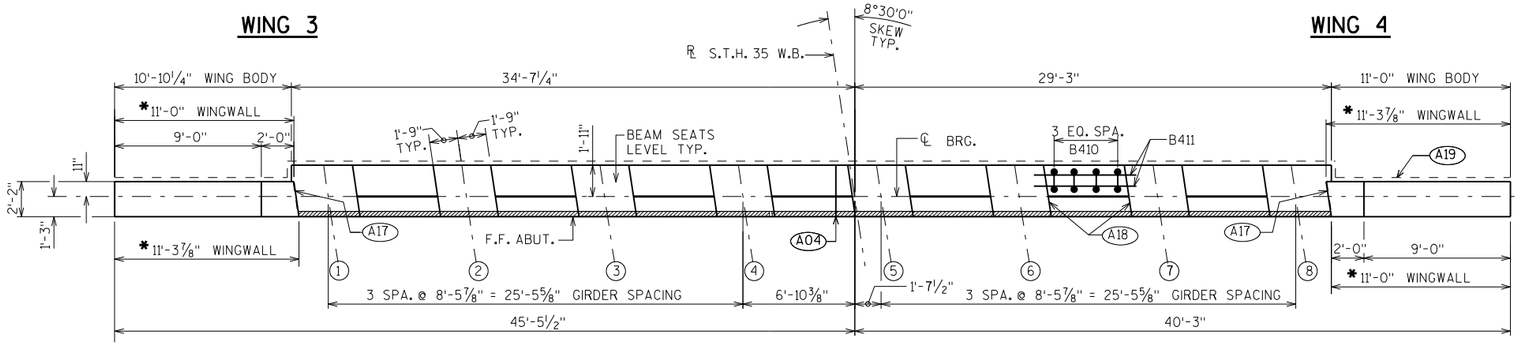
ELEVATION LOOKING EAST



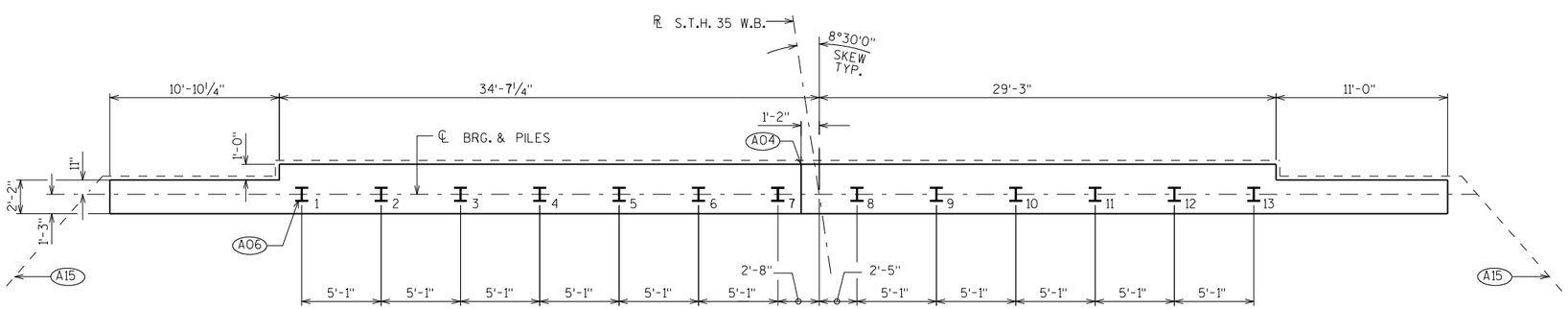
SECTION THRU BODY

WING 3

WING 4



PLAN



PILE PLAN

* INCLUDES 1/2" FILLER

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

EAST ABUTMENT

SHEET 7

664

SCALE =

8

8

(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" R.M.W. @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

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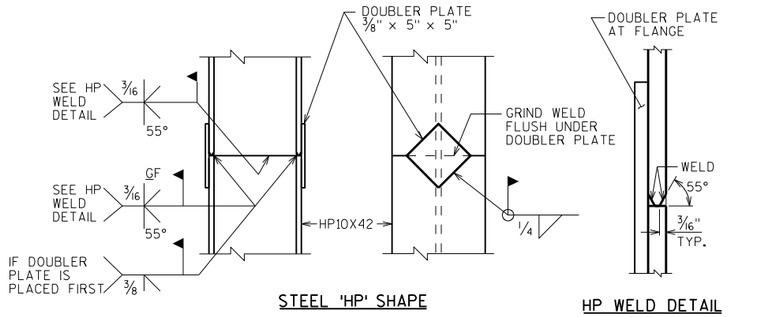
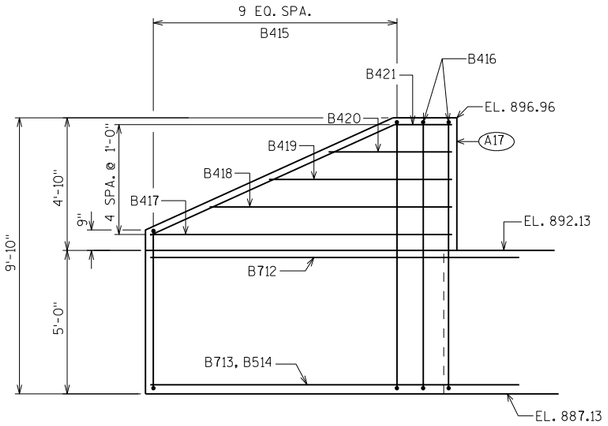


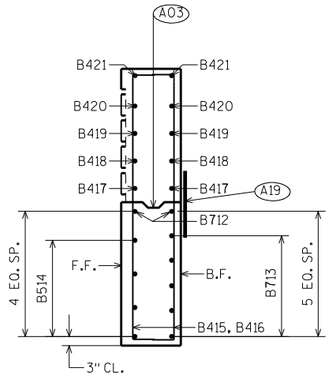
STEEL 'HP' SHAPE

HP WELD DETAIL
FLANGE SHOWN, WEB SIMILAR

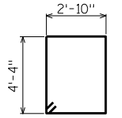
PILE DETAILS



WING 3 ELEVATION



WING 3 SECTION



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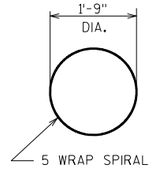

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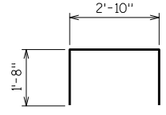

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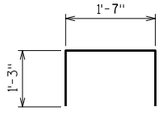

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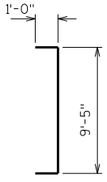

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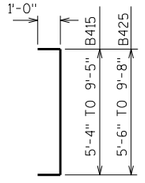
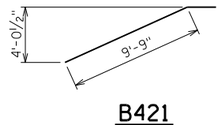


B415, B425



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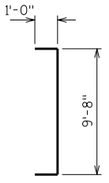

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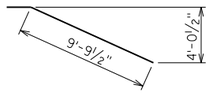
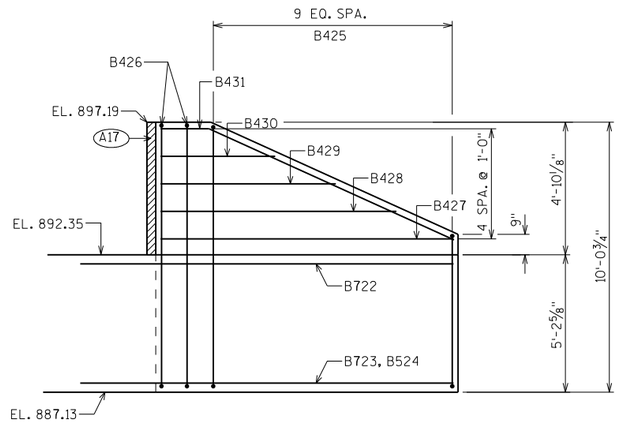


B431

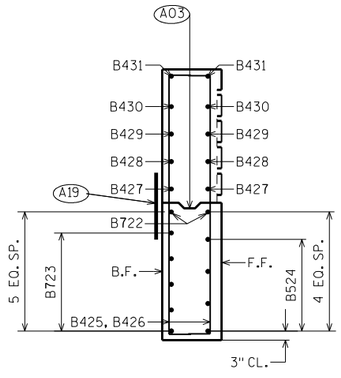
BILL OF BARS

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		79	15'-0"	X		BODY-STIRRUPS
B402		26	2'-3"			PILES- 2 PER PILE
B603		6	36'-5"			BODY-HORIZONTAL
B604		6	30'-2"			BODY-HORIZONTAL
B605		11	36'-5"			BODY-HORIZONTAL
B606		11	30'-2"			BODY-HORIZONTAL
B407		13	28'-0"	X		PILES-1 PER PILE
B408		3	14'-7"			BODY-HORZ. @ GIRS. 4
B509		36	5'-11"	X		BODY-TOP @ GIRS. 4-7
B410		28	3'-11"	X		BODY-BETWEEN BEAM SEATS
B411		14	7'-0"			BODY-HORZ. EXT
B712	X	2	13'-7"			WING 3-HORIZONTAL
B713	X	5	13'-7"			WING 3-HORIZONTAL
B514	X	4	12'-7"			WING 3-HORIZONTAL
B415	X	20	9'-2"	X	▲	WING 3-VERTICAL
B416	X	4	11'-3"	X		WING 3-VERTICAL
B417	X	2	10'-8"			WING 3-HORIZONTAL
B418	X	2	8'-7"			WING 3-HORIZONTAL
B419	X	2	6'-6"			WING 3-HORIZONTAL
B420	X	2	4'-4"			WING 3-HORIZONTAL
B421	X	2	11'-9"	X		WING 3-TOP HORIZONTAL
B722	X	2	13'-7"			WING 4-HORIZONTAL
B723	X	5	13'-7"			WING 4-HORIZONTAL
B524	X	4	12'-7"			WING 4-HORIZONTAL
B425	X	20	9'-5"	X	▲	WING 4-VERTICAL
B426	X	4	11'-6"	X		WING 4-VERTICAL
B427	X	2	10'-8"			WING 4-HORIZONTAL
B428	X	2	8'-7"			WING 4-HORIZONTAL
B429	X	2	6'-4"			WING 4-HORIZONTAL
B430	X	2	4'-2"			WING 4-HORIZONTAL
B431	X	2	11'-9"	X		WING 4-TOP HORIZONTAL
B432		3	22'-10"			BODY-HORZ. @ GIRS. 5-7



WING 4 ELEVATION



WING 4 SECTION

BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

MARK	NO. REQD.	LENGTH
B415	2 SERIES OF 10	7'-2" TO 11'-3"
B425	2 SERIES OF 10	7'-4" TO 11'-6"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

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EAST ABUTMENT DETAILS

SHEET 8

665

STATE PROJECT NUMBER

8110-02-72

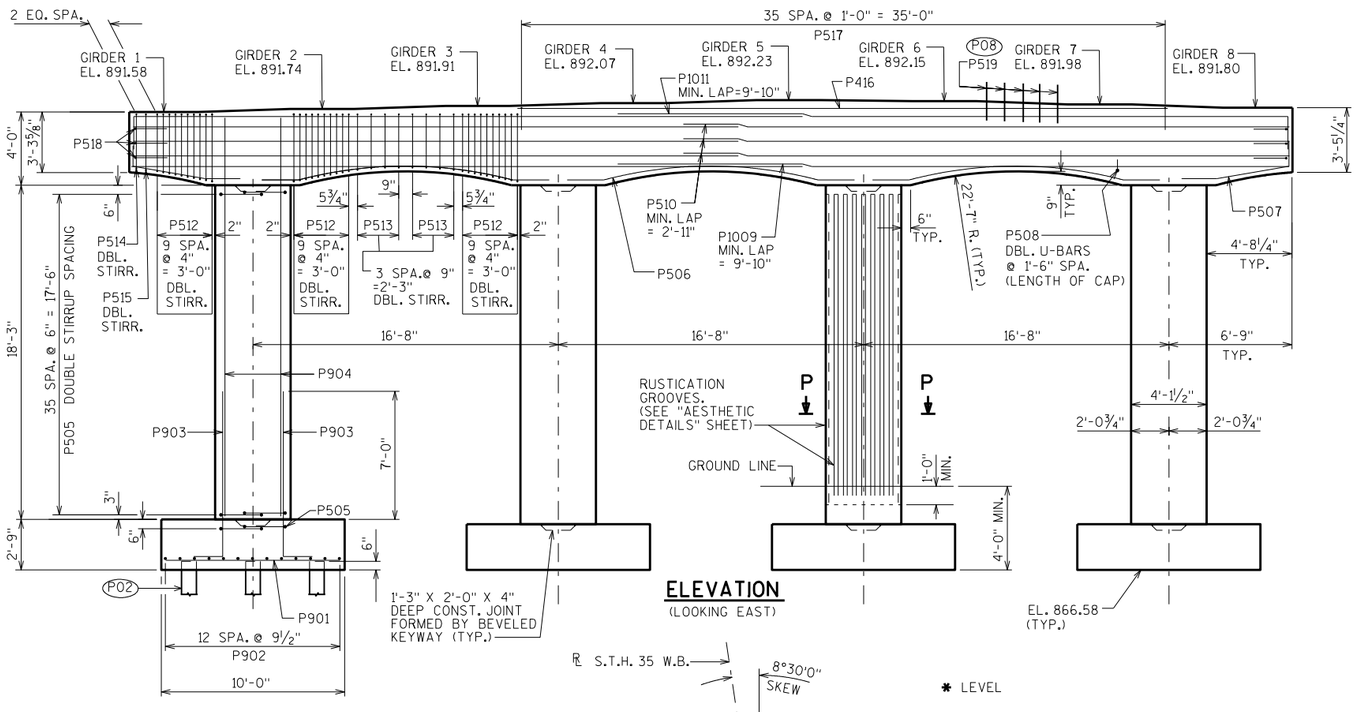
8

8

SCALE = 3.75

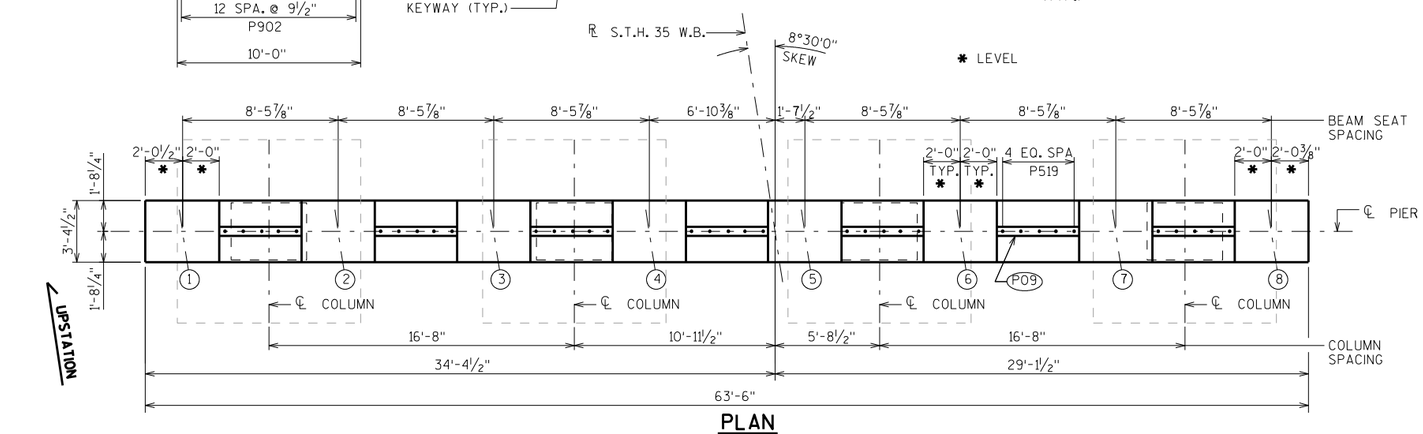
STATE PROJECT NUMBER

8110-02-72



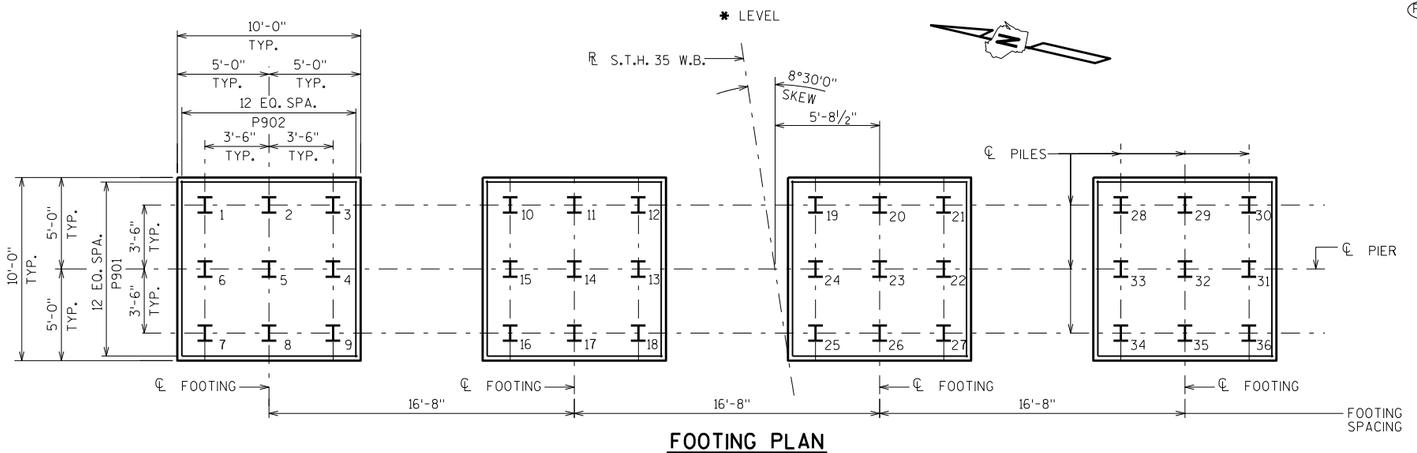
ELEVATION

(LOOKING EAST)

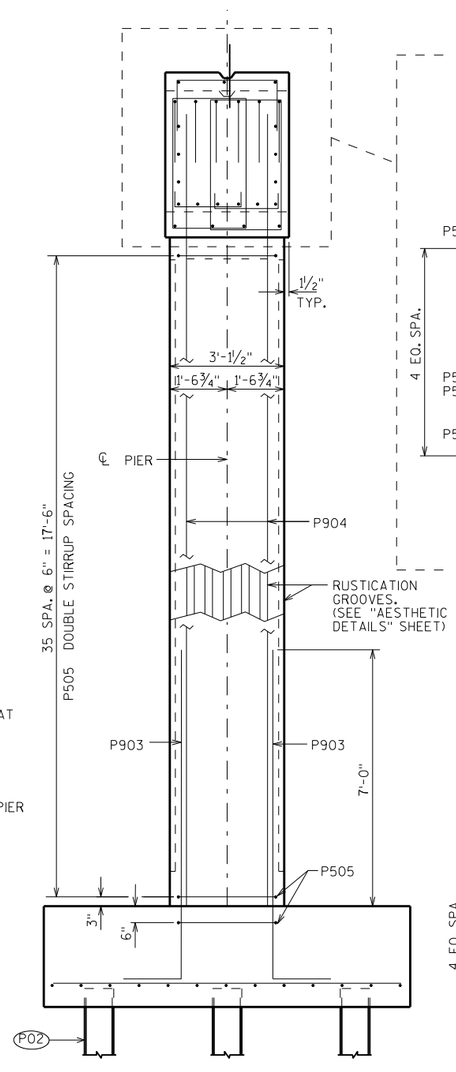


PLAN

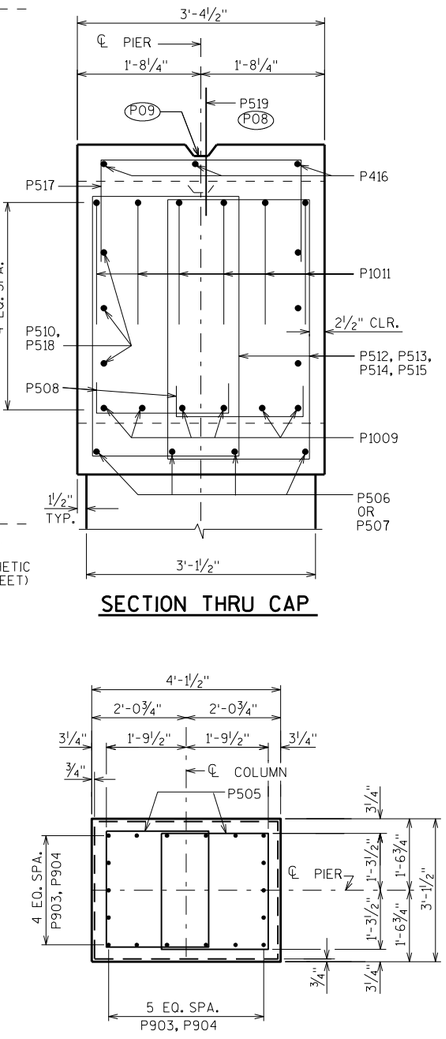
* LEVEL



FOOTING PLAN



END VIEW



SECTION THRU CAP

SECTION P-P

(P02) SUPPORT PIER ON HP 10 x 42 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. PILE POINTS REQ'D.

(P08) BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

(P09) KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2 x 6 BETWEEN BEAM SEATS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

PIER

SHEET 9

666

SCALE = 4.00

8

8

STATE PROJECT NUMBER
8110-02-72

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

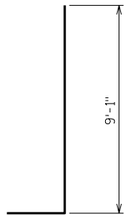
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P901		52	9'-8"			FOOTING-HORIZ.
P902		52	9'-8"			FOOTING-HORIZ.
P903	X	72	10'-5"	X		FOOTING/COLUMN-VERT.
P904	X	72	21'-9"			COLUMN-VERT.
P505	X	296	10'-6"	X		FOOTING/COLUMN-HORIZ.
P506	X	12	15'-8"	X		CAP-BOTTOM-HORIZ.
P507	X	8	6'-11"	X		CAP-BOTTOM-HORIZ.
P508	X	86	2'-5"	X		CAP-BOTTOM U-BAR
P1009	X	12	36'-5"			CAP-BOTTOM-HORIZ.
P510	X	12	33'-0"			CAP-MIDDLE-HORIZ.
P1011	X	12	37'-11"	X		CAP-TOP-HORIZ.
P512	X	160	11'-5"	X	⚠	CAP-STIRRUP-VERT.
P513	X	48	10'-8"	X	⚠	CAP-STIRRUP-VERT.
P514	X	4	10'-6"	X		CAP-STIRRUP-VERT.
P515	X	4	10'-8"	X		CAP-STIRRUP-VERT.
P416	X	3	35'-6"			CAP-TOP-HORIZ.
P517	X	36	6'-1"	X		CAP-TOP-VERT. U-BAR
P518	X	6	6'-1"	X		CAP-END U-BAR
P519	X	35	2'-0"			CAP-TOP-DOWEL BAR

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

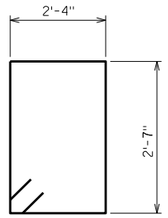
BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
P512	16 SERIES OF 10	10'-10" TO 12'-0"
P513	12 SERIES OF 4	10'-6" TO 10'-10"

BUNDLE AND TAG EACH SERIES SEPARATELY.



P903



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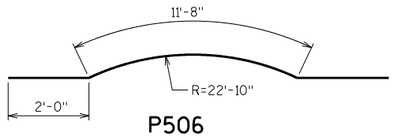

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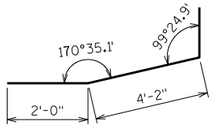

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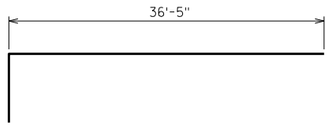

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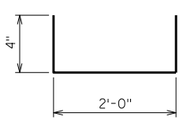

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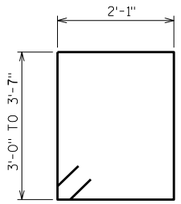

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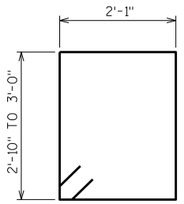

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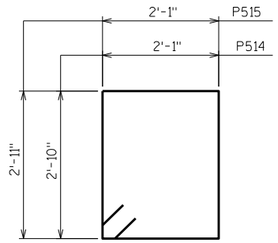
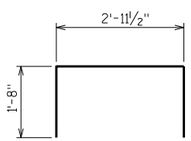


P514, P515



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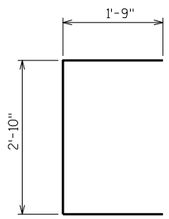

P518

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

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PIER DETAILS

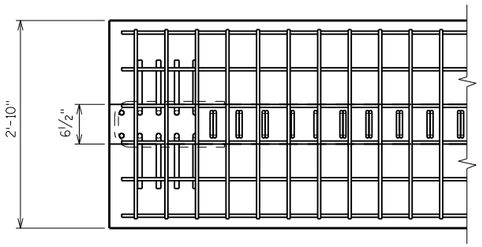
SHEET 10

667

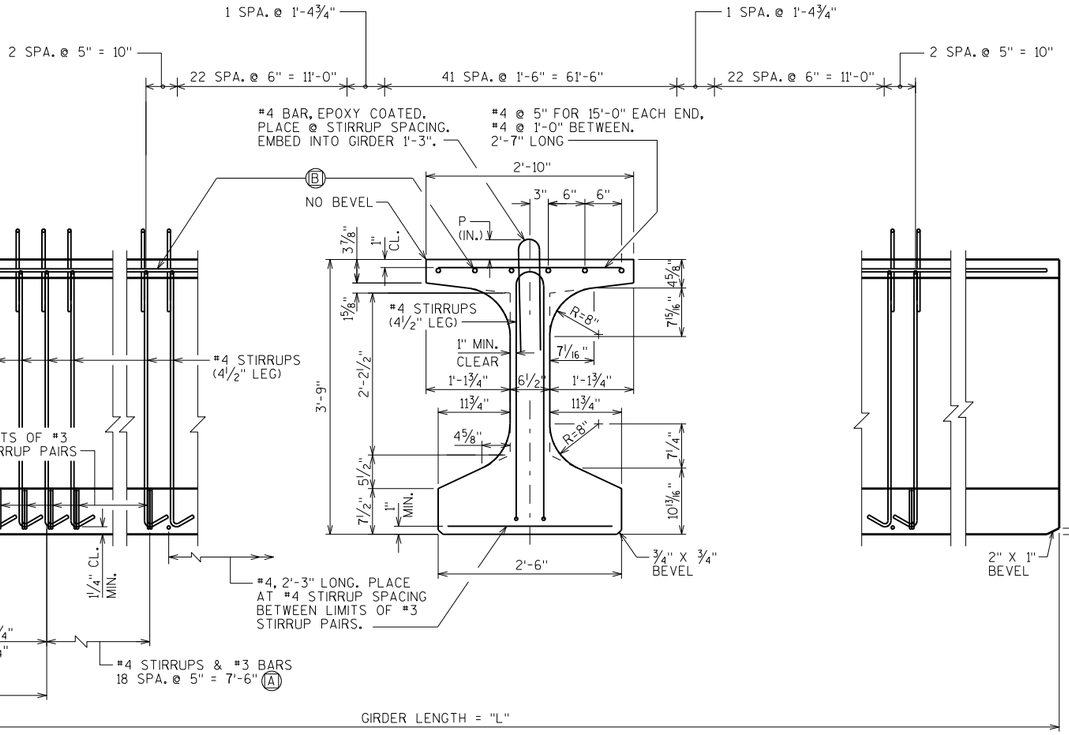
SCALE =

STATE PROJECT NUMBER

8110-02-72



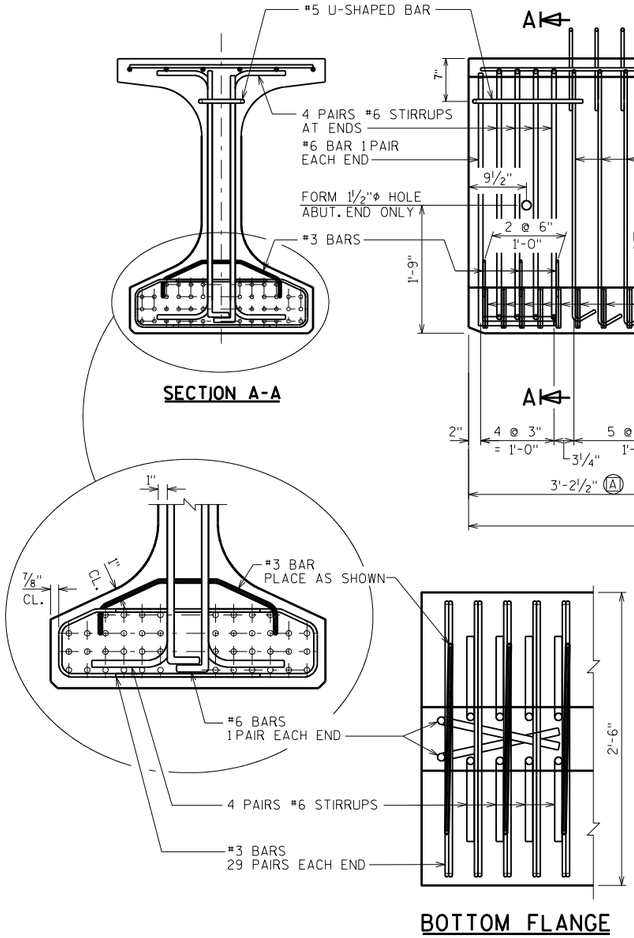
TOP FLANGE



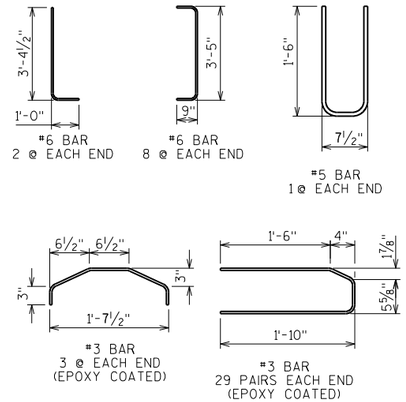
SIDE VIEW & TYP. SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ (SPAN 1) 6 #4 BARS, FULL LENGTH, 1'-11" MIN. LAP
(SPAN 2) 6 #4 BARS, FULL LENGTH, 1'-11" MIN. LAP



BOTTOM FLANGE



NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF THE GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

STRANDS SHALL BE FLUSH WITH THE END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, ENDS OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, ONE OPTION IS AVAILABLE:

USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE 0.6" DIA. -7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CONC. STRGTH. f'c (p.s.i.)	"P" 1ST ⅓ OF GIRDER	"P" MID ⅓ OF GIRDER	"P" END ⅓ OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.)	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.)
1	1-8	109.38	0.9	1.7	2.4	2.8	2.9	2.8	2.4	1.7	0.9	8000	8.0	7.5	8.0	0.60	40	6700	40	13.75	16.75	5		
2	1-8	109.38	0.9	1.7	2.4	2.8	2.9	2.8	2.4	1.7	0.9	8000	8.0	7.5	8.0	0.60	40	6700	40	13.75	16.75	5		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

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45W" PRESTRESSED GIRDER DETAILS 1

SHEET 11

668

SCALE = 3.75

TUE FEB 04 11:49:25 2014 *1-13 G45W

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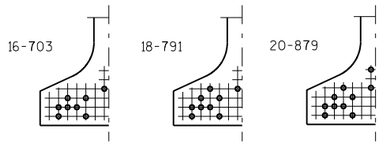
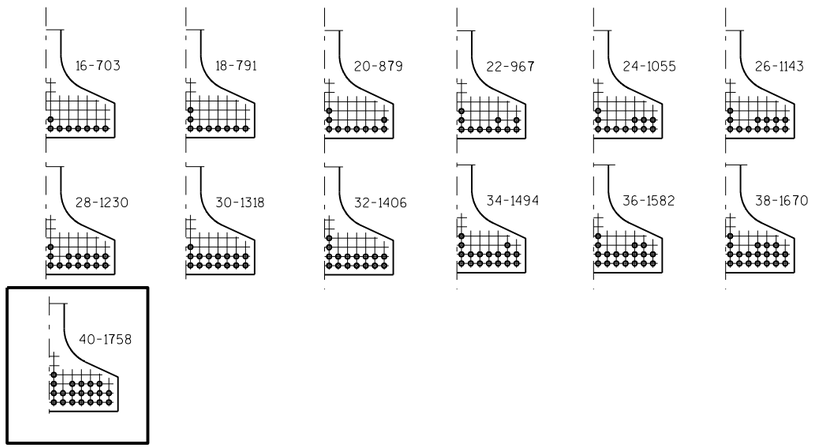
STATE PROJECT NUMBER

8110-02-72



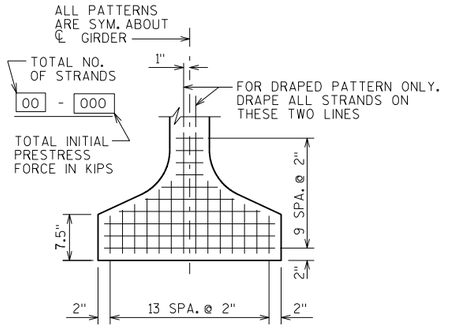
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS

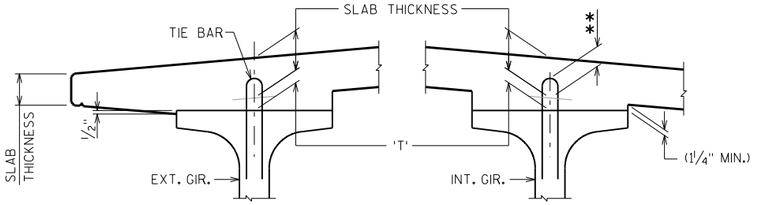


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



TYP. STRAND PATTERN



SLAB HAUNCH DETAIL

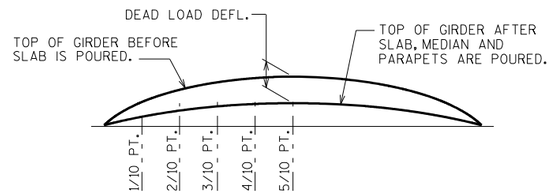
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

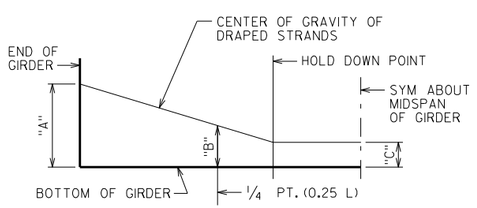
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3.4" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.)*
1	3.7"
2	3.7"

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T'. USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

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45W" PRESTRESSED GIRDER DETAILS 2

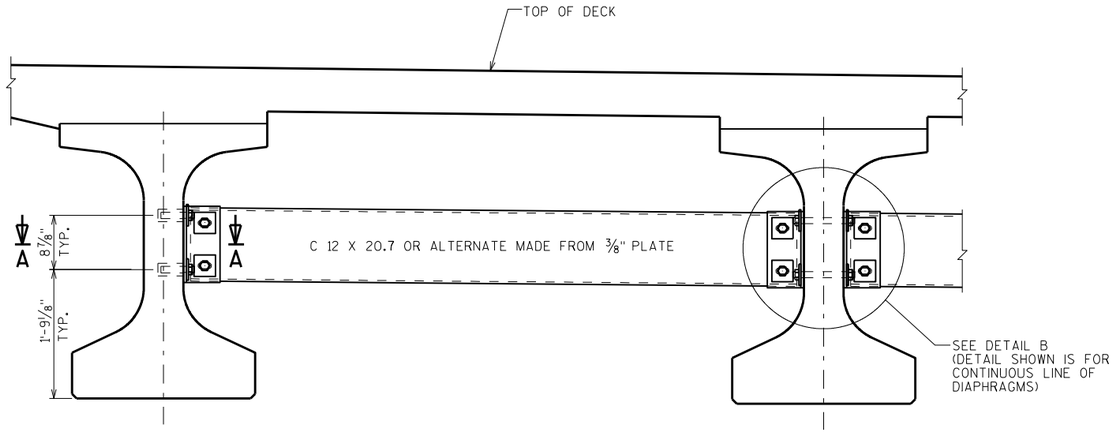
SHEET 12

669

TUE FEB 04 11:49:27 2014 C:\45W

SCALE = 3.75

STATE PROJECT NUMBER
8110-02-72



PART TRANSVERSE SECTION AT DIAPHRAGM

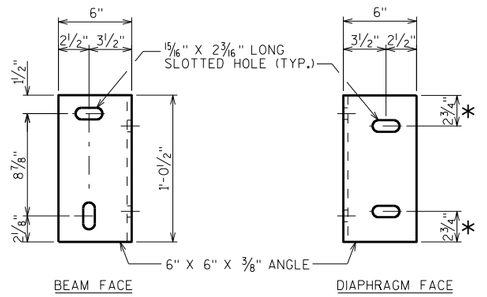
NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-55-226", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

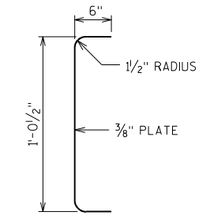
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.

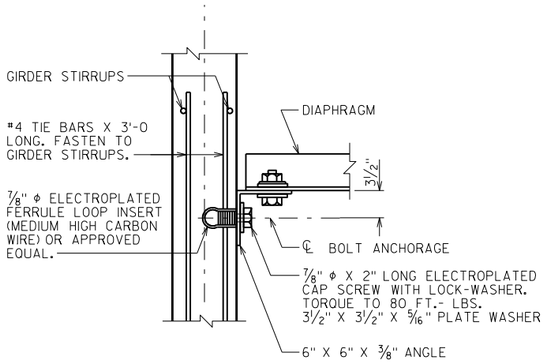


DIAPHRAGM SUPPORT

* 2½" FOR ALTERNATE PLATE DIAPHRAGM

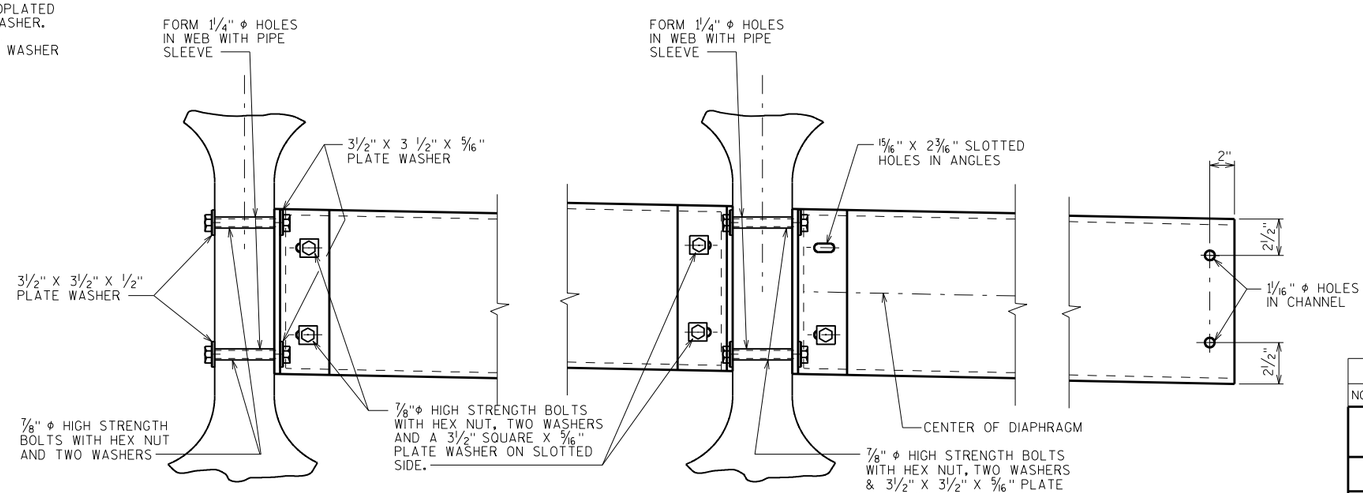


SECTION THRU ALTERNATE DIAPHRAGM



SECTION A-A

(FOR EXTERIOR ATTACHMENT)



DETAIL B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

STEEL DIAPHRAGM

SHEET 13

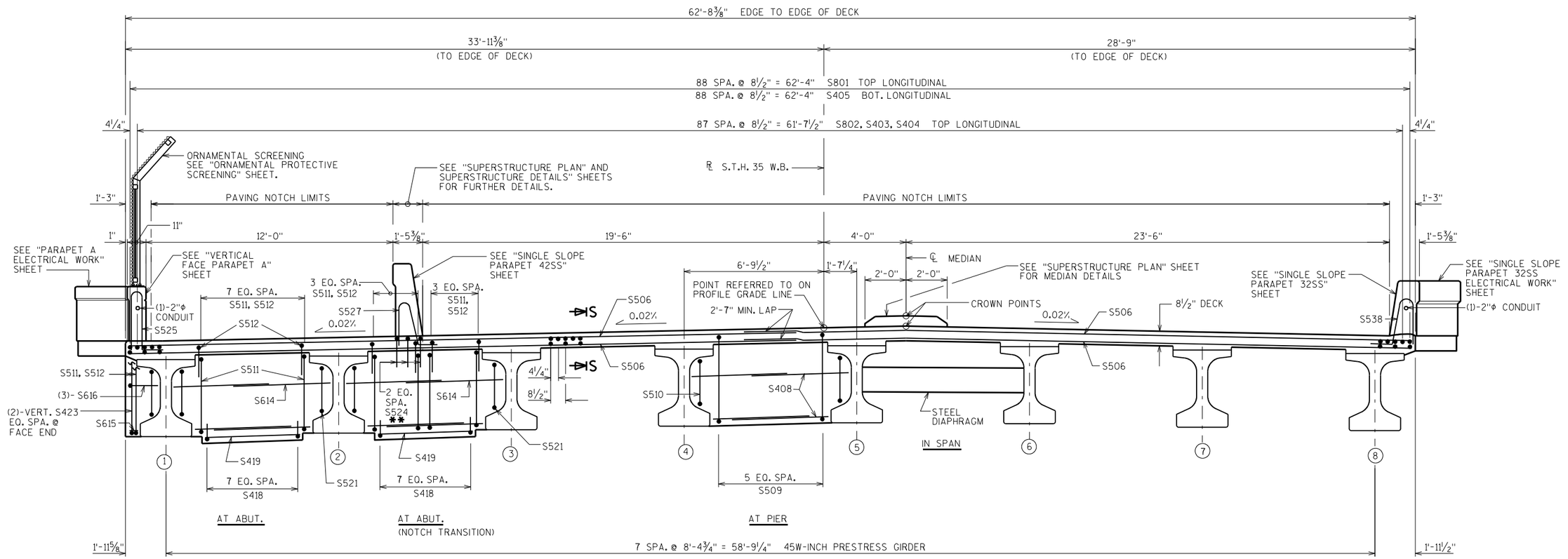
670

SCALE = 3.75

TUE FEB 04 11:49:29 2014 C:\DOCUMENTS AND SETTINGS\WWR\DESKTOP\B550226\DIA

STATE PROJECT NUMBER

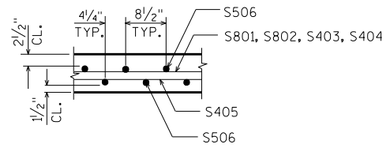
8110-02-72



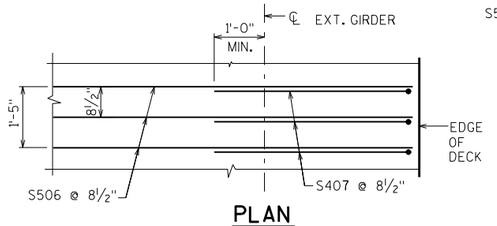
CROSS SECTION THRU ROADWAY

(LOOKING EAST)

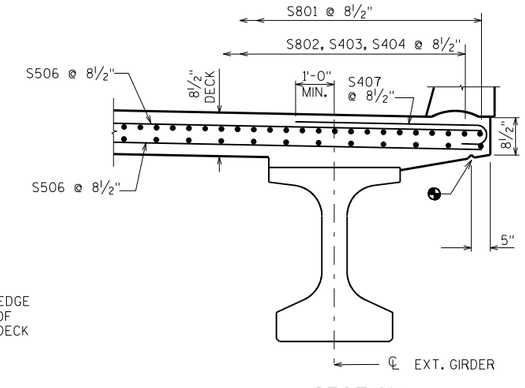
** BARS TO BE PLACED IN PAVING NOTCH. (TYP. AT BOTH ENDS)



SECTION S-S



PLAN



SECTION

ADDITIONAL REINF. DETAIL

SHOWING TOP TRANSVERSE STEEL ONLY.

◓ 3/4" V-GROOVE. EXTEND V-GROOVE TO 3" FROM F.F. OF ABUT. DIAPHRAGM. V-GROOVES ARE REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

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SUPERSTRUCTURE CROSS SECTION

SHEET 14

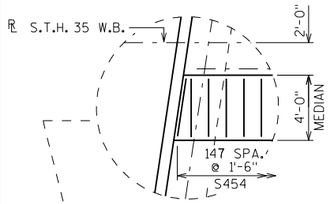
671

SCALE = 2.5

8

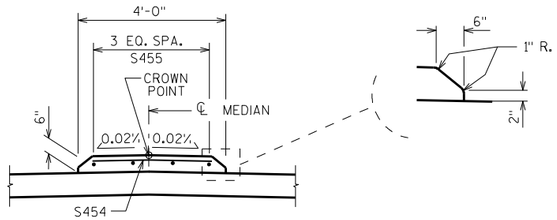
8

STATE PROJECT NUMBER
8110-02-72



MEDIAN END PLAN (TYP.)

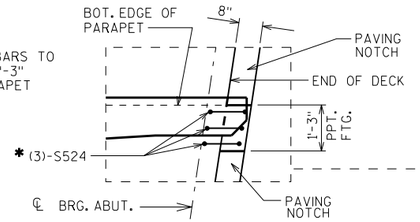
ONLY TRANSVERSE REINFORCEMENT



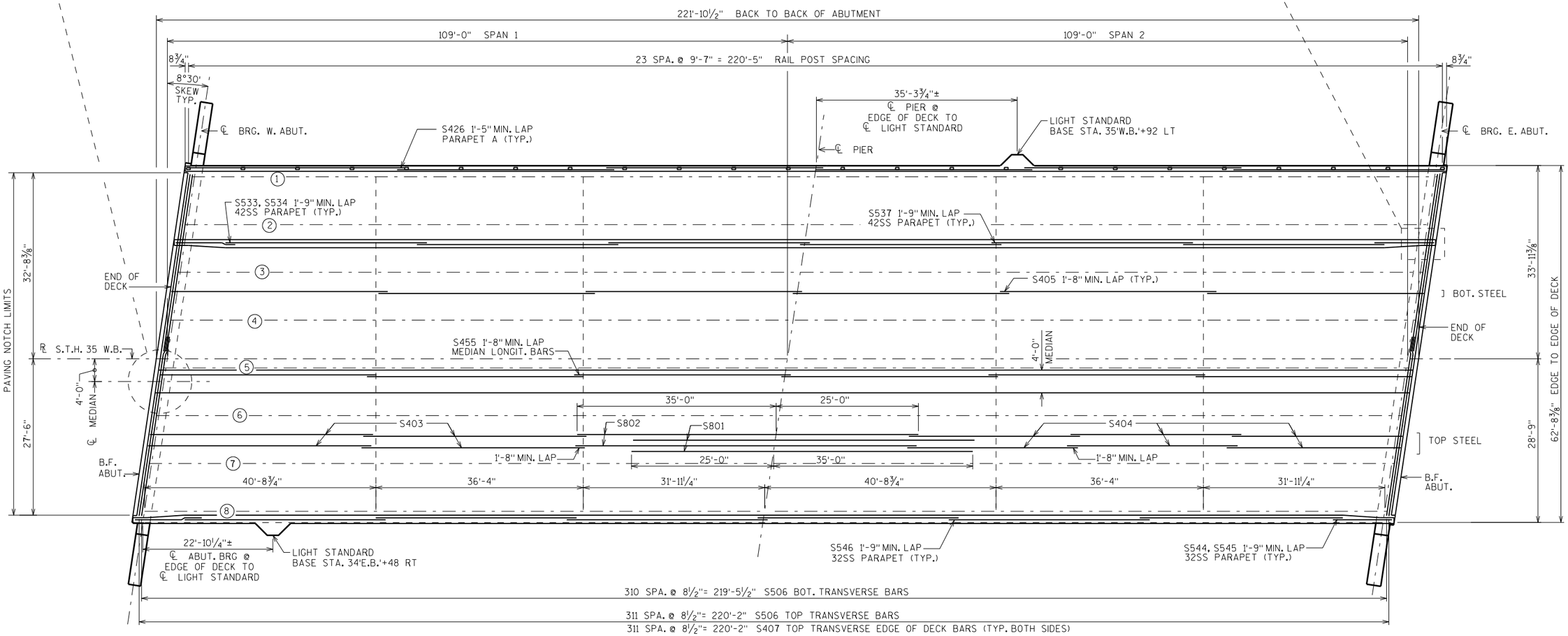
MEDIAN SECTION

(LOOKING EAST)

* EXTRA PAVING NOTCH U-BARS TO REINFORCE AND PROVIDE 1'-3" WIDE FOOTING UNDER PARAPET AT END OF DECK.



PAVING NOTCH @ 42SS PARAPET END PLAN (TYP.)



PLAN

TOP OF DECK ELEVATIONS

	W. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	E. ABUT.
EOD	895.87	895.93	895.98	896.04	896.09	896.15	896.20	896.26	896.31	896.36	896.42	896.47	896.53	896.58	896.64	896.69	896.75	896.80	896.85	896.91	896.96
GIR. 1	895.89	895.95	896.00	896.06	896.11	896.16	896.22	896.27	896.33	896.38	896.44	896.49	896.55	896.60	896.66	896.71	896.76	896.82	896.87	896.93	896.98
GIR. 2	896.05	896.11	896.16	896.22	896.27	896.33	896.38	896.44	896.49	896.54	896.60	896.65	896.71	896.76	896.82	896.87	896.93	896.98	897.03	897.09	897.14
GIR. 3	896.22	896.27	896.32	896.38	896.43	896.49	896.54	896.60	896.65	896.71	896.76	896.82	896.87	896.92	896.98	897.03	897.09	897.14	897.20	897.25	897.31
GIR. 4	896.38	896.43	896.49	896.54	896.60	896.65	896.70	896.76	896.81	896.87	896.92	896.98	897.03	897.09	897.14	897.19	897.25	897.30	897.36	897.41	897.47
GIR. 5	896.54	896.59	896.65	896.70	896.76	896.81	896.87	896.92	896.97	897.03	897.08	897.14	897.19	897.25	897.30	897.36	897.41	897.47	897.52	897.57	897.63
GIR. 6	896.46	896.51	896.57	896.62	896.68	896.73	896.79	896.84	896.90	896.95	897.01	897.06	897.11	897.17	897.22	897.28	897.33	897.39	897.44	897.50	897.55
GIR. 7	896.29	896.34	896.40	896.45	896.50	896.56	896.61	896.67	896.72	896.78	896.83	896.89	896.94	896.99	897.05	897.10	897.16	897.21	897.27	897.32	897.38
GIR. 8	896.11	896.17	896.22	896.28	896.33	896.38	896.44	896.49	896.55	896.60	896.66	896.71	896.77	896.82	896.87	896.93	896.98	897.04	897.09	897.15	897.20
EOD	896.10	896.15	896.21	896.26	896.31	896.37	896.42	896.48	896.53	896.58	896.64	896.70	896.75	896.81	896.86	896.91	896.97	897.02	897.08	897.13	897.19

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

SUPERSTRUCTURE PLAN

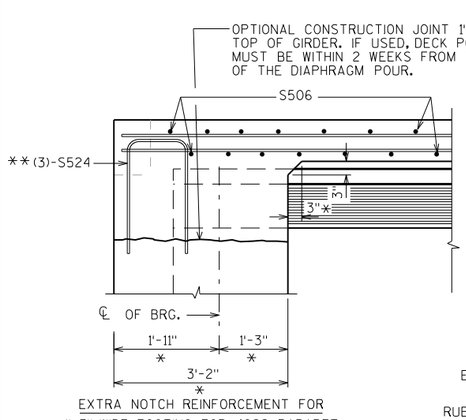
SHEET 15

672

SCALE =

STATE PROJECT NUMBER

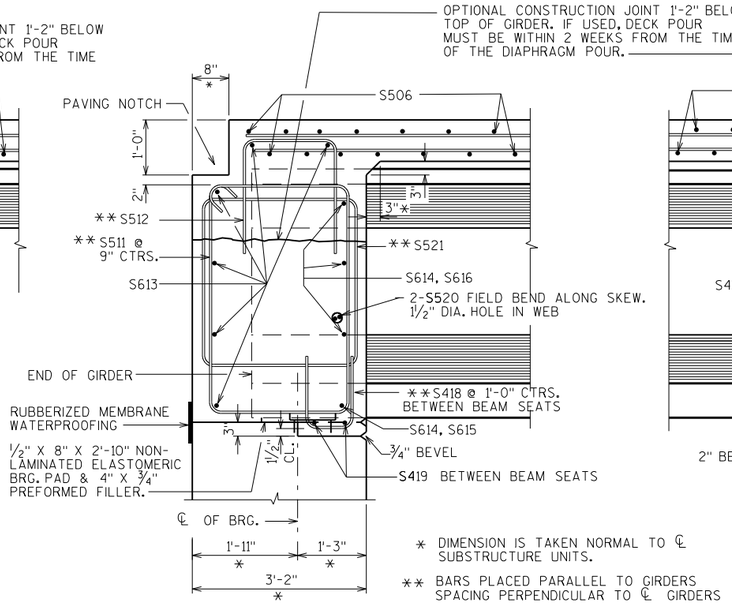
8110-02-72



EXTRA NOTCH REINFORCEMENT FOR 1'-3" WIDE FOOTING FOR 42SS PARAPET

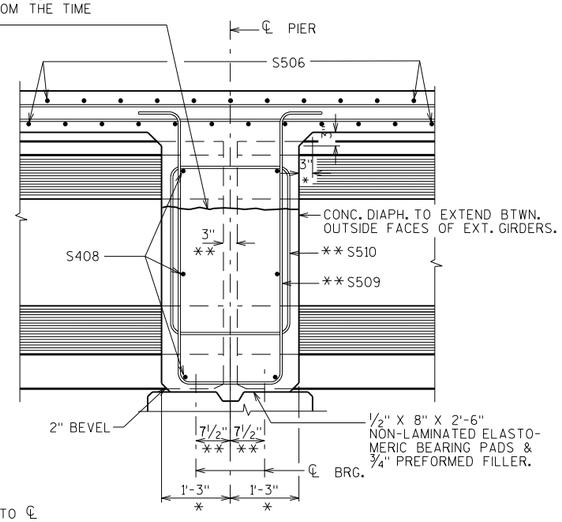
PART LONGIT. SECTION AT 42SS PARAPET END

(SHOWING DECK STEEL AND ADDT.'L NOTCH BARS ONLY)



AT ABUTMENTS @ PAVING NOTCH

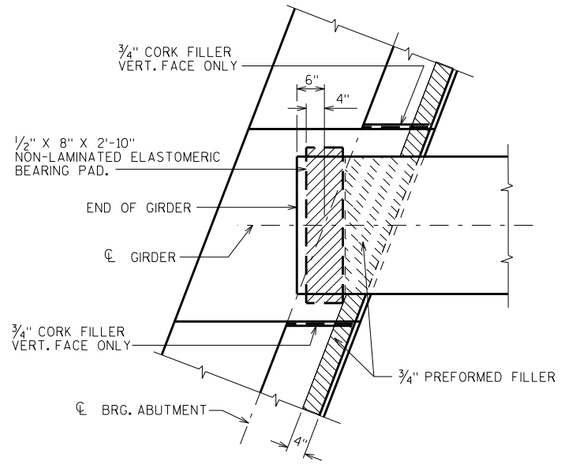
PART LONGIT. SECTION

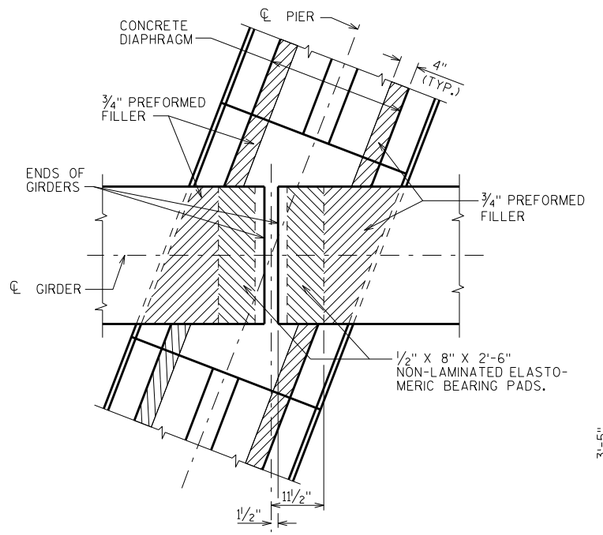


AT PIER DIAPHRAGM

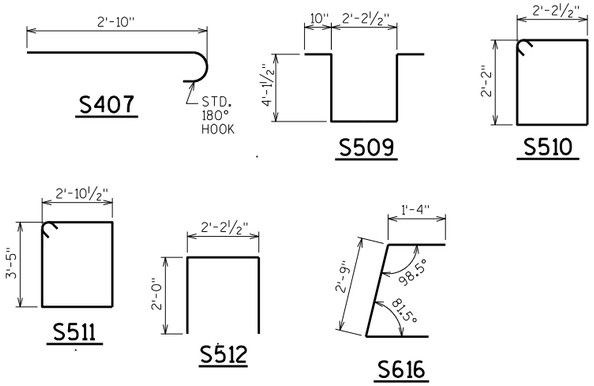
BILL OF BARS

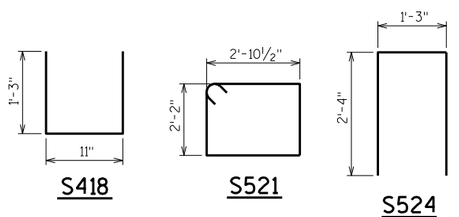
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S801	X	89	60'-0"			DECK LONGITUDINAL CONTINUITY
S802	X	88	60'-0"			DECK LONGITUDINAL CONTINUITY
S403	X	176	39'-7"			DECK LONGITUDINAL TOP
S404	X	264	30'-0"			DECK LONGITUDINAL TOP
S405	X	534	38'-4"			DECK LONGITUDINAL BOTTOM
S506	X	1246	32'-11"			DECK TRANSVERSE
S407	X	624	3'-4"	X		DECK TRANSVERSE-EDGE
S408	X	84	4'-8"			PIER DIAPHRAGM
S509	X	42	11'-6"	X		PIER DIAPHRAGM
S510	X	14	9'-5"	X		PIER DIAPHRAGM
S511	X	120	13'-3"	X		ABUT. DIAPHRAGM
S512	X	120	6'-0"	X		ABUT. DIAPHRAGM
S613	X	24	33'-0"			ABUT. DIAPHRAGM
S614	X	112	4'-10"			ABUT. DIAPHRAGM
S615	X	4	0'-5"			ABUT. DIAPHRAGM
S616	X	12	5'-1"	X		ABUT. DIAPHRAGM
—		NOT	USED			—
S418	X	84	3'-3"	X		ABUT. DIAPHRAGM
S419	X	28	4'-8"			ABUT. DIAPHRAGM
S520	X	32	6'-0"			ABUT. DIAPHRAGM
S521	X	32	10'-9"	X		ABUT. DIAPHRAGM
—		NOT	USED			—
S423	X	8	4'-2"			ABUT. DIAPHRAGM
S524	X	6	5'-8"	X		DECK NOTCH-VERT. U BAR
S454	X	148	3'-8"			MEDIAN TRANSVERSE
S455	X	24	38'-4"			MEDIAN LONGITUDINAL





BEARING PAD DETAILS





NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

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SUPERSTRUCTURE DETAILS

SHEET 16

673

TUE FEB 04 11:49:21 2014*

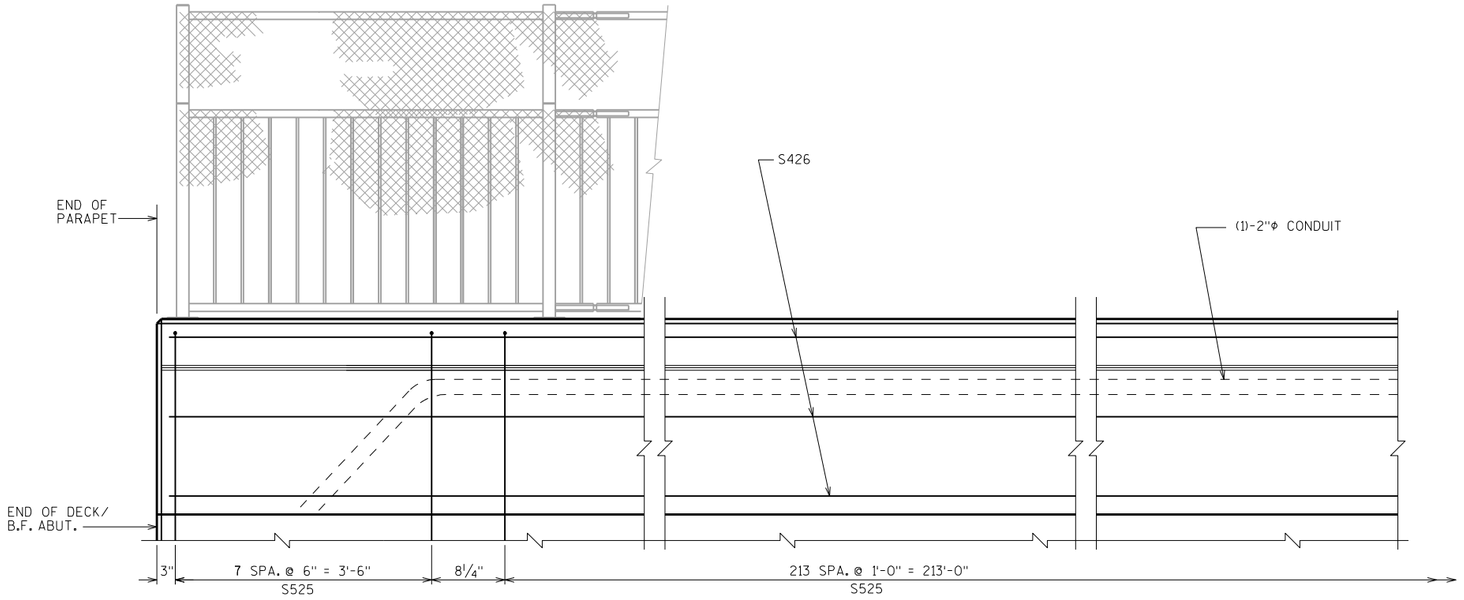
SCALE = 3.75

8

8

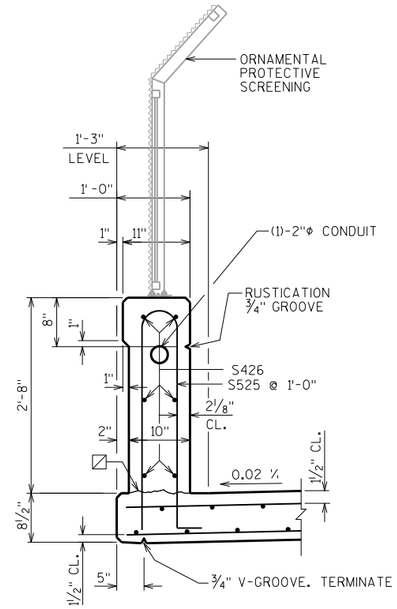
STATE PROJECT NUMBER

8110-02-72

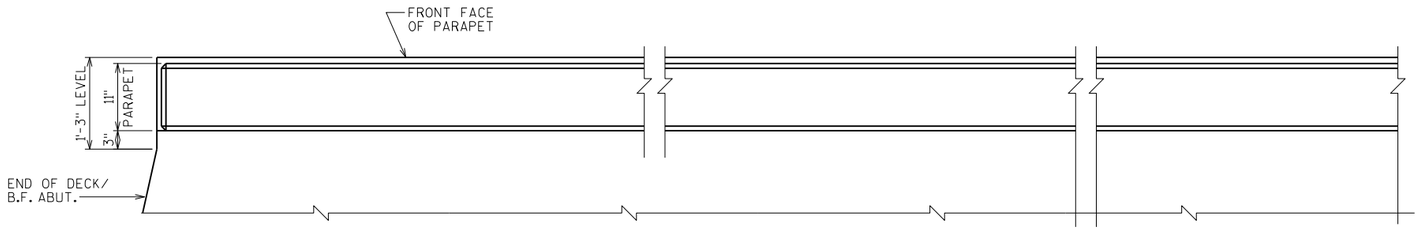


AT ABUTMENTS

ELEVATION OF PARAPET



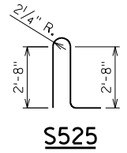
SECTION THRU PARAPET



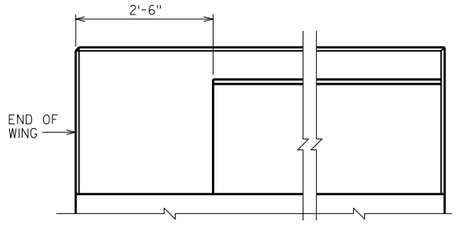
PLAN OF PARAPET

BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S525	X	230	6'-8"	X		PARAPET VERT.
S426	X	36	38'-5"			PARAPET HORIZ.



S525



FRONT FACE OF PARAPET

☒ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH. FOR DECK POUR, MATCH BRIDGE X-SLOPE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

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VERTICAL FACE PARAPET "A"

SHEET 17

674

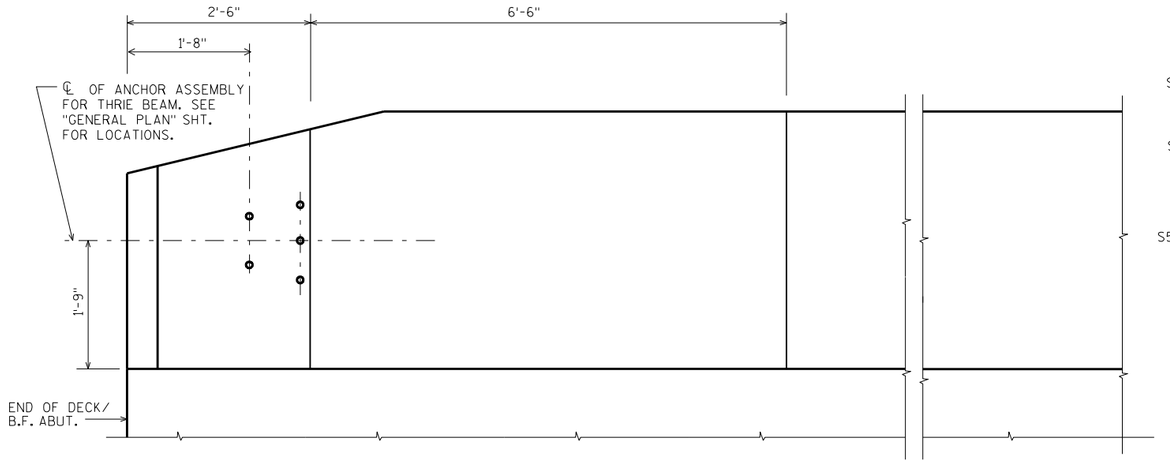
8

8

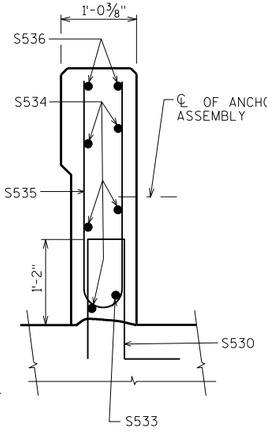
SCALE =

STATE PROJECT NUMBER

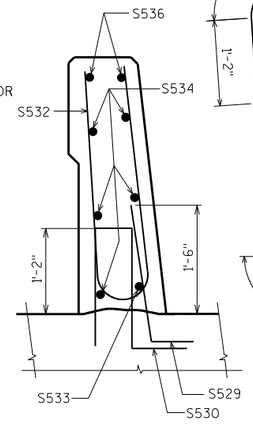
8110-02-72



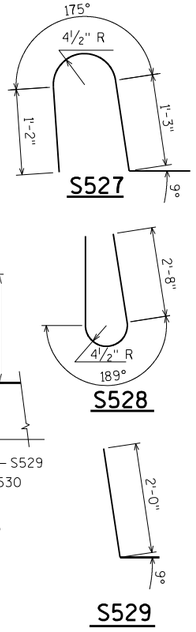
INSIDE ELEVATION



SECTION A-A



SECTION B-B



BILL OF BARS

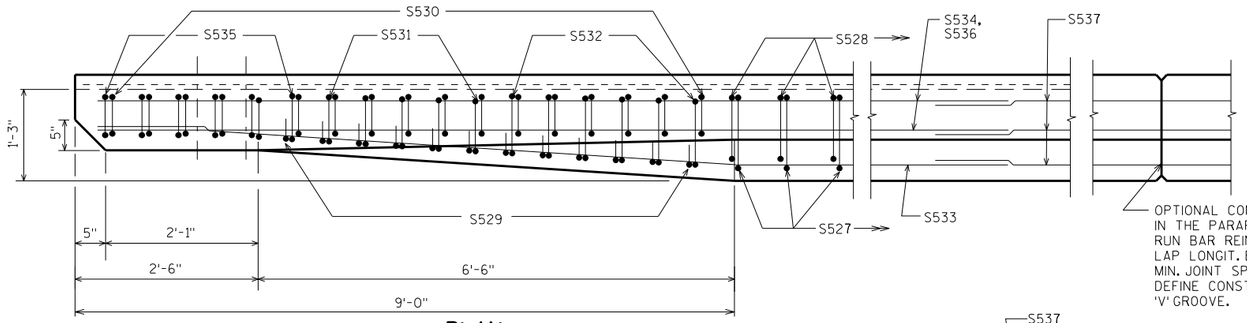
BAR MARK	COAT	NO.	LENGTH	BENT	BAR SERIES	LOCATION
S527	X	306	4'-5"	X		PARAPET VERT.
S528	X	306	6'-8"	X		PARAPET VERT.
S529	X	22	2'-9"	X		PARAPET-VERT.
S530	X	34	4'-4"	X		PARAPET-VERT.
S531	X	10	6'-5"	X		PARAPET-VERT.
S532	X	12	6'-6"	X		PARAPET-VERT.
S533	X	2	10'-7"	X		PARAPET-HORIZ.
S534	X	10	10'-7"			PARAPET HORIZ.
S535	X	12	5'-5"	X	⚠	PARAPET-VERT.
S536	X	4	10'-7"	X		PARAPET-HORIZ.
S537	X	48	35'-5"			PARAPET-HORIZ

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

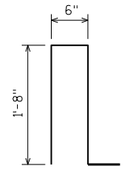
MARK	NO. REQD.	LENGTH
S535	2 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.

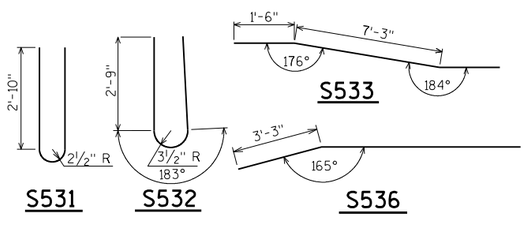


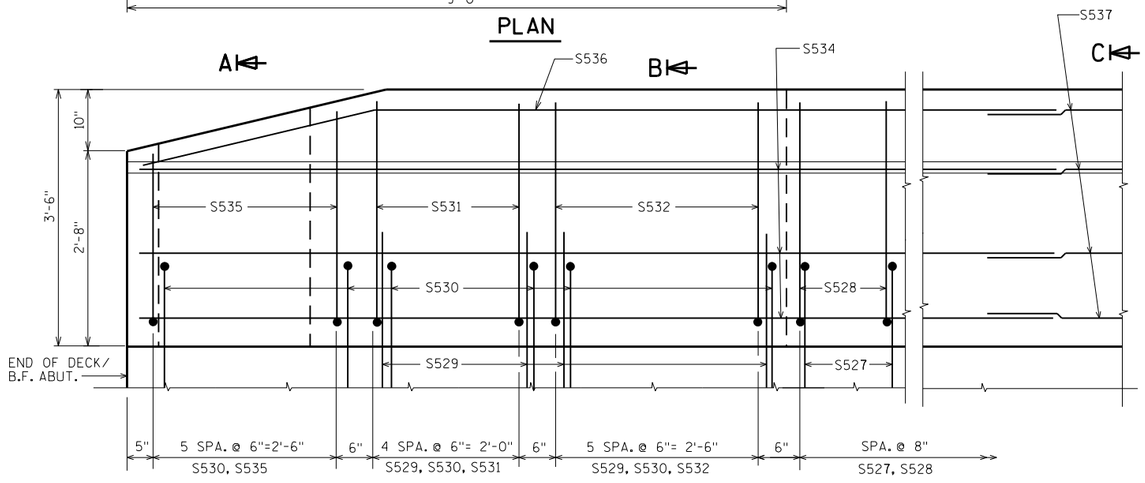
PLAN

OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A ¾" - 'V' GROOVE.

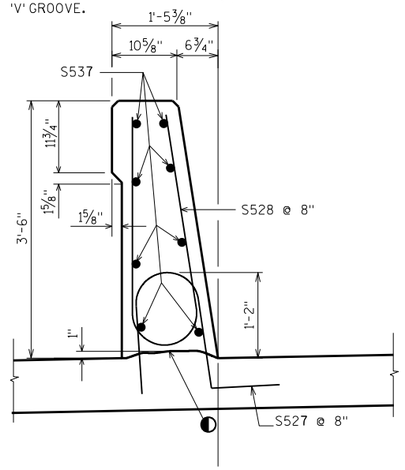


S530

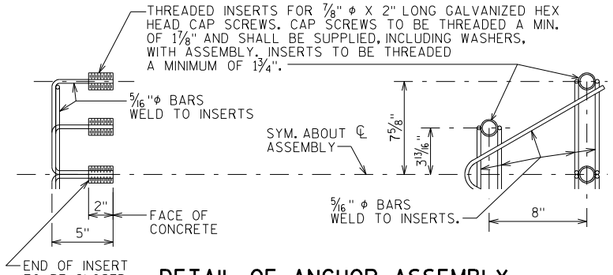




OUTSIDE ELEVATION



SECTION C-C



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

SINGLE SLOPE PARAPET 42SS

SHEET 18

675

42SSDEC
1-14

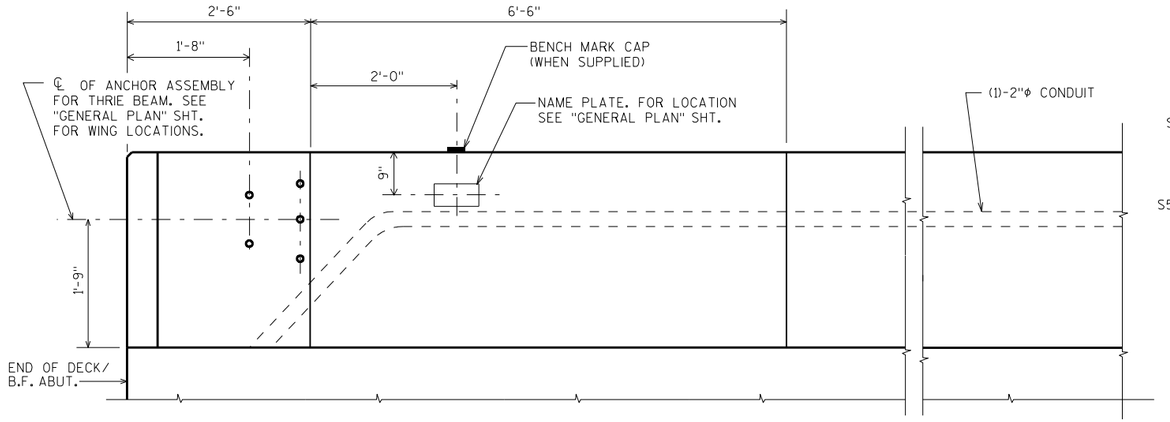
SCALE = 1

8

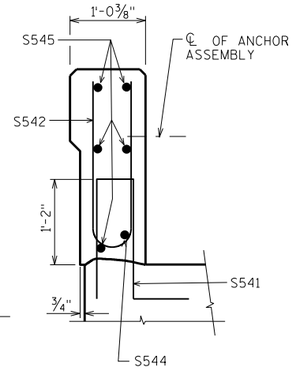
8

STATE PROJECT NUMBER

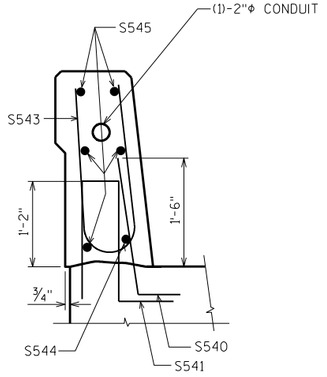
8110-02-72



INSIDE ELEVATION



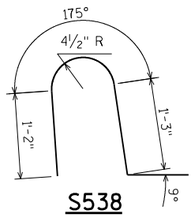
SECTION A-A



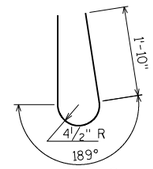
SECTION B-B

BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	BAR SERIES	LOCATION
S538	X	306	4'-5"	X		PARAPET VERT.
S539	X	306	5'-0"	X		PARAPET VERT.
S540	X	24	2'-9"	X		PARAPET-VERT.
S541	X	34	4'-4"	X		PARAPET-VERT.
S542	X	22	4'-9"	X		PARAPET-VERT.
S543	X	12	4'-10"	X		PARAPET-VERT.
S544	X	2	10'-7"	X		PARAPET-HORIZ.
S545	X	10	10'-7"			PARAPET HORIZ.
S546	X	36	35'-5"			PARAPET HORIZ.



S538



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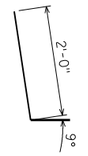
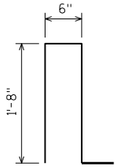
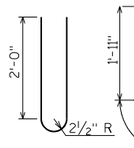


S540



S541



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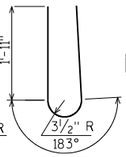

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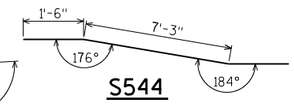

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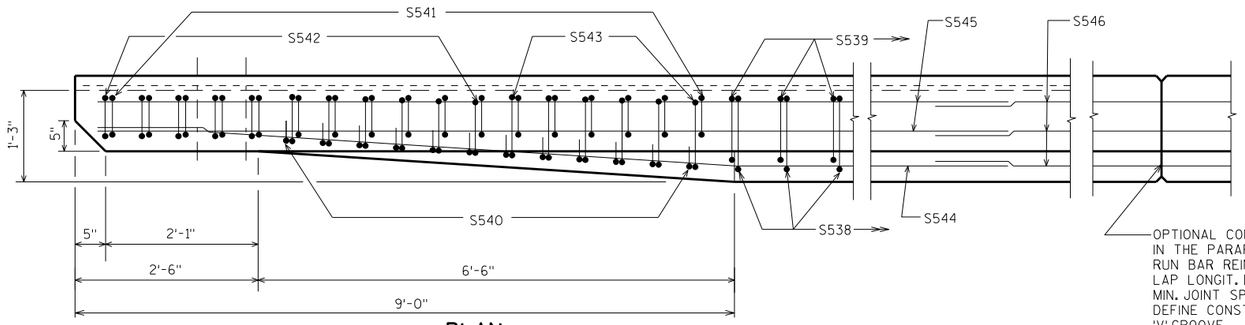
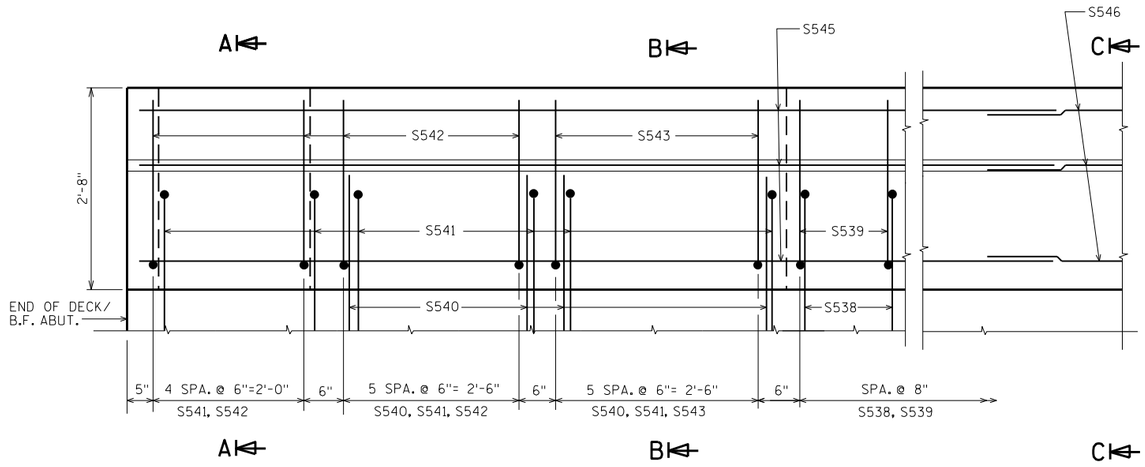
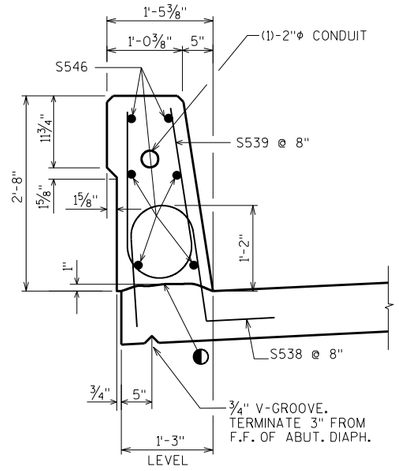


PLAN

OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A 3/4" - 'V' GROOVE.

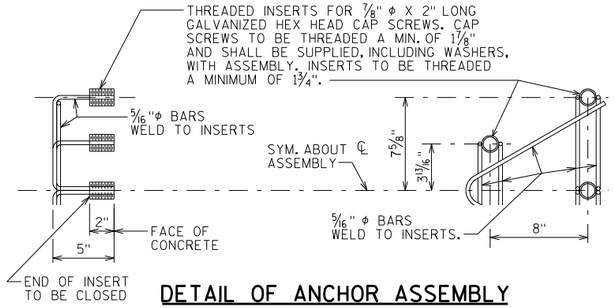


OUTSIDE ELEVATION



SECTION C-C

◐ CONST. JOINT - STRIKE OFF AS SHOWN.



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

SINGLE SLOPE PARAPET 32SS

SHEET 19

676

SCALE = 1

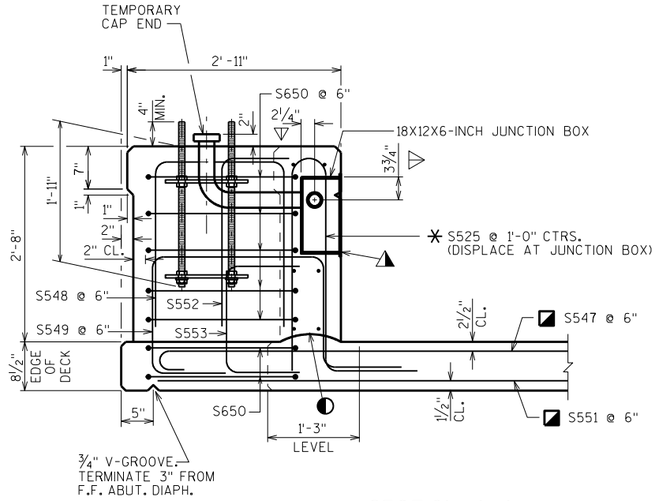
32SSDEC

8

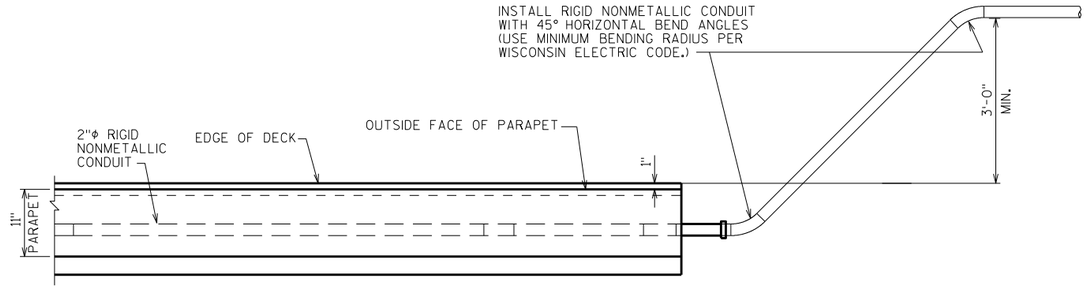
8

STATE PROJECT NUMBER

8110-02-72



SECTION A-A



PLAN OF PARAPET SHOWING CONDUIT

(TYPICAL AT BOTH ENDS)

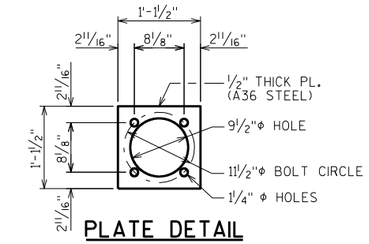
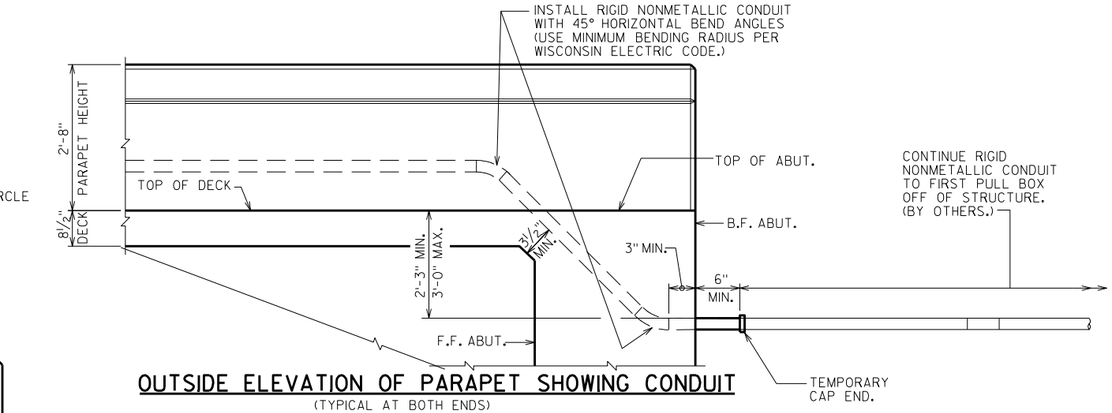


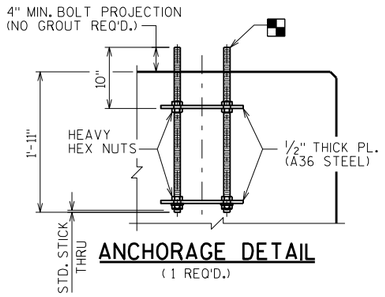
PLATE DETAIL

(2 REQ'D.)



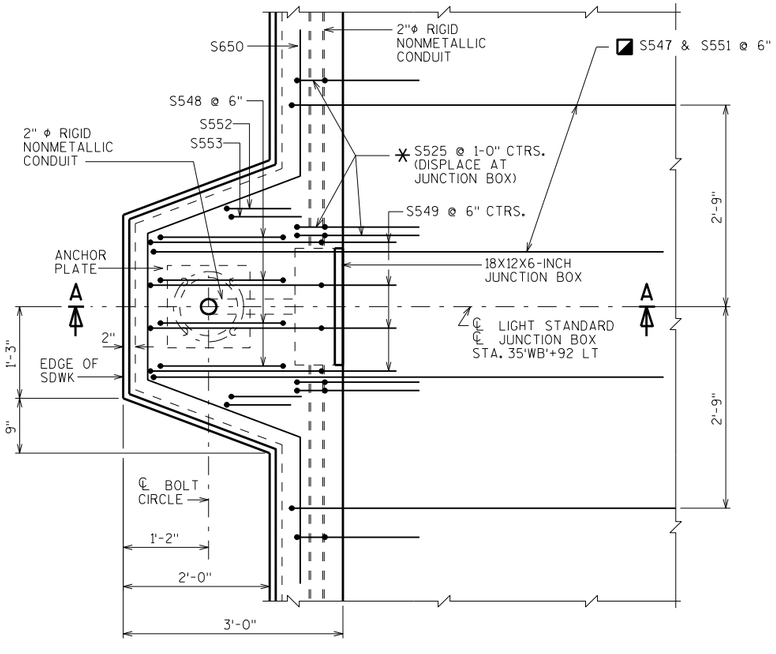
OUTSIDE ELEVATION OF PARAPET SHOWING CONDUIT

(TYPICAL AT BOTH ENDS)

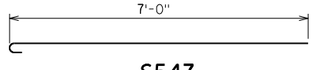


ANCHORAGE DETAIL

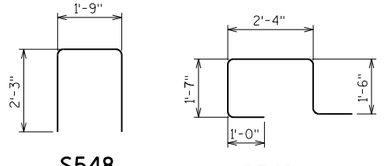
(1 REQ'D.)



PLAN AT LIGHT STANDARD

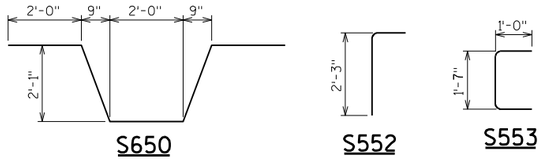


S547



S548

S549



S650

S552

S553

◐ CONSTRUCTION JOINT. STRIKE OFF AS SHOWN.

◭ CUT OUT ± 1" OF GASKET AT BOTTOM OF JUNCTION BOX COVER TO ALLOW FOR DRAINAGE.

▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE EDGE OF JUNCTION BOX

◪ THESE BARS ARE IN ADDITION TO STANDARD TRANSVERSE BARS IN DECK.

✳ SEE "VERTICAL FACE PARAPET A" SHEET FOR ADDITIONAL BAR STEEL DETAILS

◩ 1"ϕ THREADED ANCHOR BARS ASTM A449 OR AASHTO M 314-90 GR 55. HOT DIP ASTM A153, CLASS C, UPPER 8" OF BOLT INCLUDING NUTS AND WASHERS. PROVIDE ENLARGED THREAD ON NUTS FOR PROPER FIT AFTER GALVANIZING. PROVIDE DOUPLE FLAT WASHERS & NUTS.

NOTES

BID ITEMS SHALL BE:

"JUNCTION BOXES 18X12X6-INCH"

"ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES"

"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH"

APPROVED MANUFACTURERS - JUNCTION BOXES: SEE APPROVED MATERIAL LIST.

ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID NONMETALLIC 2-INCH".

BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	LOCATION
S547	X	10	7'-7"	X	SIDEWALK TRANS. @ LIGHT STD.
S548	X	4	6'-0"	X	PARAPET VERT. @ LIGHT STD.
S549	X	4	6'-11"	X	PARAPET VERT. @ LIGHT STD.
S650	X	7	10'-0"	X	PARAPET HORIZ. @ LIGHT STD.
S551	X	10	7'-0"		SIDEWALK TRANS. @ LIGHT STD.
S552	X	2	3'-2"	X	PARAPET VERT. @ LIGHT STD.
S553	X	2	3'-4"	X	PARAPET VERT. @ LIGHT STD.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

PARAPET "A" ELECTRICAL WORK

SHEET 20

677

PPTAELEC
7-13

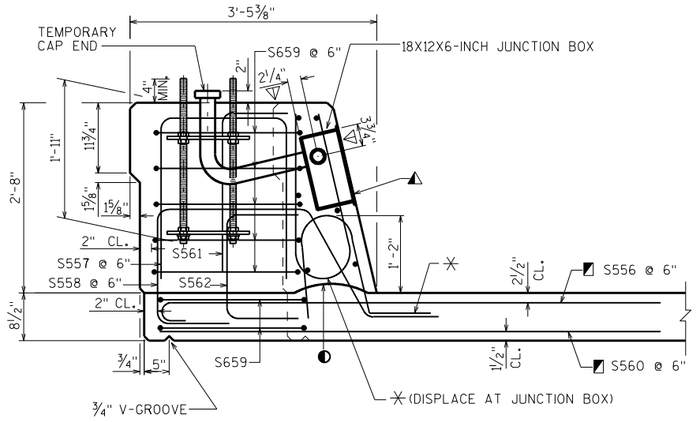
8

8

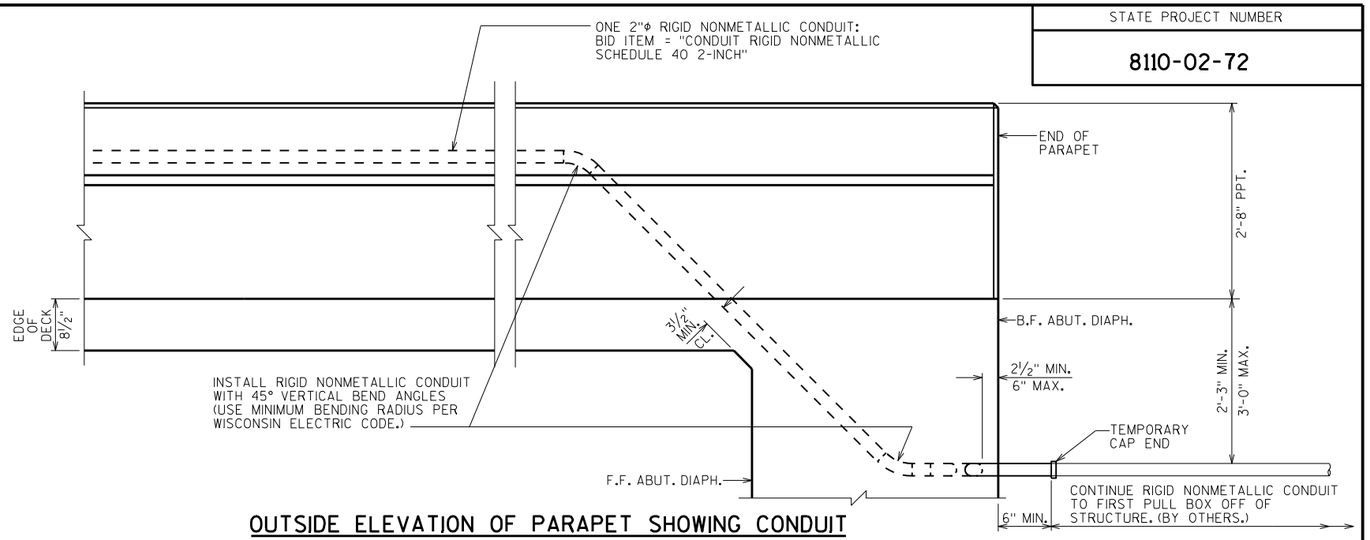
SCALE =

STATE PROJECT NUMBER

8110-02-72

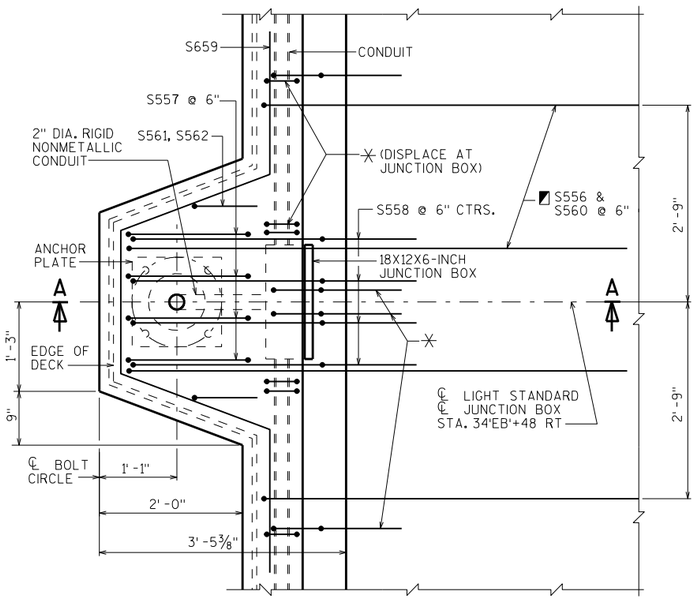


SECTION A-A



OUTSIDE ELEVATION OF PARAPET SHOWING CONDUIT

(TYPICAL AT BOTH ENDS)



PLAN AT LIGHT STANDARD

◐ CONST. JT. STRIKE OFF AS SHOWN

◭ CUT OUT ± 1" OF GASKET AT BOTTOM OF JUNCTION BOX COVER TO ALLOW FOR DRAINAGE.

▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE EDGE OF JUNCTION BOX.

◩ THESE BARS ARE IN ADDITION TO STANDARD TRANSVERSE BARS IN DECK.

✳ SEE SINGLE SLOPE PARAPET SHEET FOR ADDITIONAL BAR STEEL DETAILS

☆ 1"φ THREADED ANCHOR BOLTS ASTM A449 OR AASHTO M 314-90 GR 55. HOT DIP ASTM A153, CLASS C, UPPER 8" OF BOLT INCLUDING NUTS & WASHERS. PROVIDE ENLARGED THREAD ON NUTS FOR PROPER FIT AFTER GALVANIZING. PROVIDE DOUBLE FLAT WASHERS & NUTS.

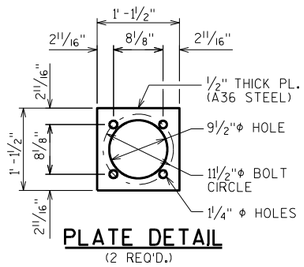
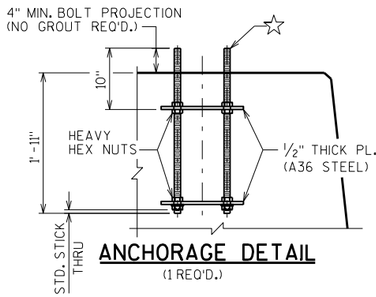


PLATE DETAIL

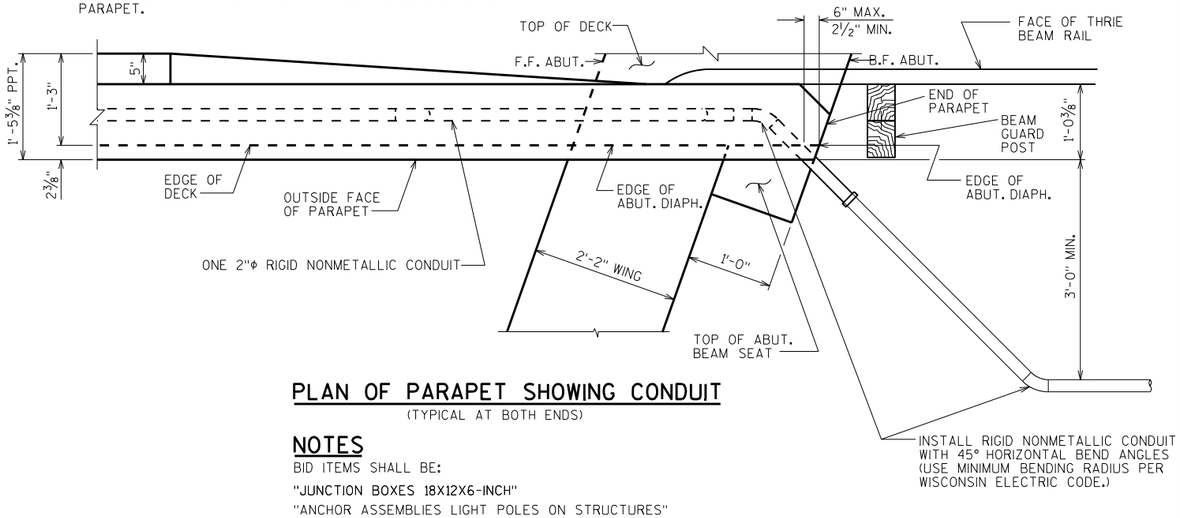
(2 REQ'D.)



ANCHORAGE DETAIL

(1 REQ'D.)

NOTE:
CONDUIT MUST BE PLACED AND LOCATED IN DIAPHRAGM FOR CONNECTION IN PARAPET PRIOR TO POURING CONCRETE FOR PARAPET.



PLAN OF PARAPET SHOWING CONDUIT

(TYPICAL AT BOTH ENDS)

NOTES

BID ITEMS SHALL BE:

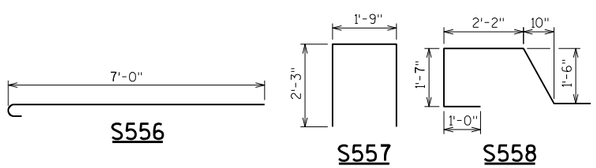
"JUNCTION BOXES 18X12X6-INCH"

"ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES"

"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH"

APPROVED MANUFACTURERS - JUNCTION BOXES: SEE APPROVED MATERIAL LIST.

ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID NONMETALLIC 2-INCH".



BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S556	X	10	7-7	X		DECK TRANSV. @ LIGHT STD.
S557	X	4	6-0	X		PARAPET VERT. @ LIGHT STD.
S558	X	4	7-0	X		PARAPET VERT. @ LIGHT STD.
S659	X	7	10-0	X		PARAPET HORIZ. @ LIGHT STD.
S560	X	10	7-0			DECK TRANSV. @ LIGHT STD.
S561	X	2	3-2	X		PARAPET VERT. @ LIGHT STD.
S562	X	2	3-4	X		PARAPET VERT. @ LIGHT STD.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

SINGLE SLOPE PARAPET 32SS ELECTRICAL WORK

SHEET 21

678

SCALE = 1

STATE PROJECT NUMBER

8110-02-72

NOTES

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILS AND POSTS TO BE ASTM A500, GRADE B. BASE PLATES AND SHIMS TO BE ASTM A709, GRADE 36. ALL GALVANIZED AFTER FABRICATION.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.

ALL POST SPA. ARE TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.

SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN TRANSVERSE DIRECTION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.

RAILING TO BE PAINTED AND FENCE FABRIC AND TIES TO BE VINYL COATED. FEDERAL COLOR NO. 27038, BLACK.

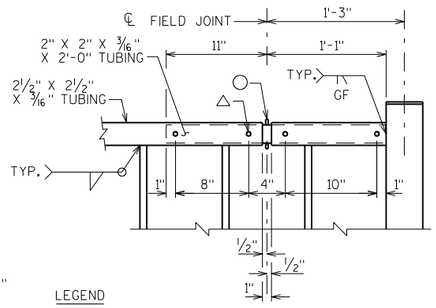
BID ITEM SHALL BE "RAILING TUBULAR SCREENING B-55-226" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 POSTS.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING.

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING ALL STEEL RAILING POSTS AND STEEL TUBING SHALL BE GIVEN A #6 BLAST CLEANING BY SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

THE END OF THE FABRIC SHALL BE ATTACHED TO THE POST BY MEANS OF A TENSION BAR THREADED THROUGH THE END LOOPS OF THE FABRIC AND SECURED TO THE POST WITH CLAMPS & BOLT. THE FABRIC SHALL BE STRETCHED TO REMOVE ALL SLACK.

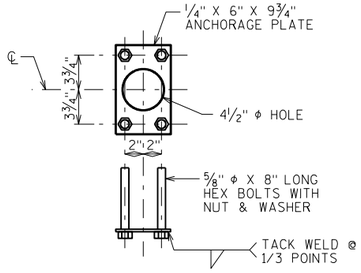


LEGEND

○ 5/16" x 3/8" WELDED STUDS

△ WELD BEAD ON EACH SIDE OF TUBE. GRIND BEADS SO THAT SLEEVE FITS FREELY INSIDE THE 2 1/2" x 2 1/2" TUBE.

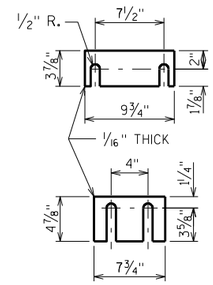
RAILING EXPANSION JOINT DETAIL



ANCHORAGE DETAIL

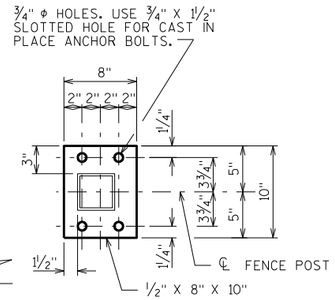
5/8" CAST-IN-PLACE ANCHOR BOLTS. MASONRY ANCHORS MAY BE SUBSTITUTED FOR C.I.P. ANCHOR BOLTS. ANCHORAGE PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.

MASONRY ANCHOR TYPE S 5/8-INCH. EMBED 7" IN CONCRETE.

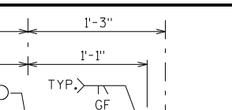


SHIM PLATE DETAILS

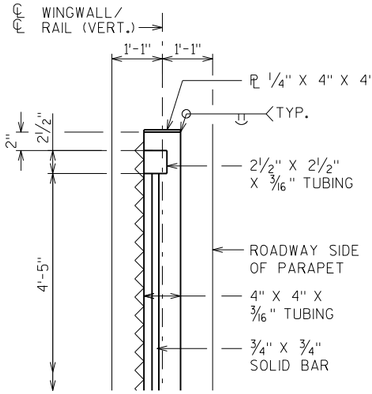
TWO SHIMS OF EACH SIZE REQUIRED PER POST



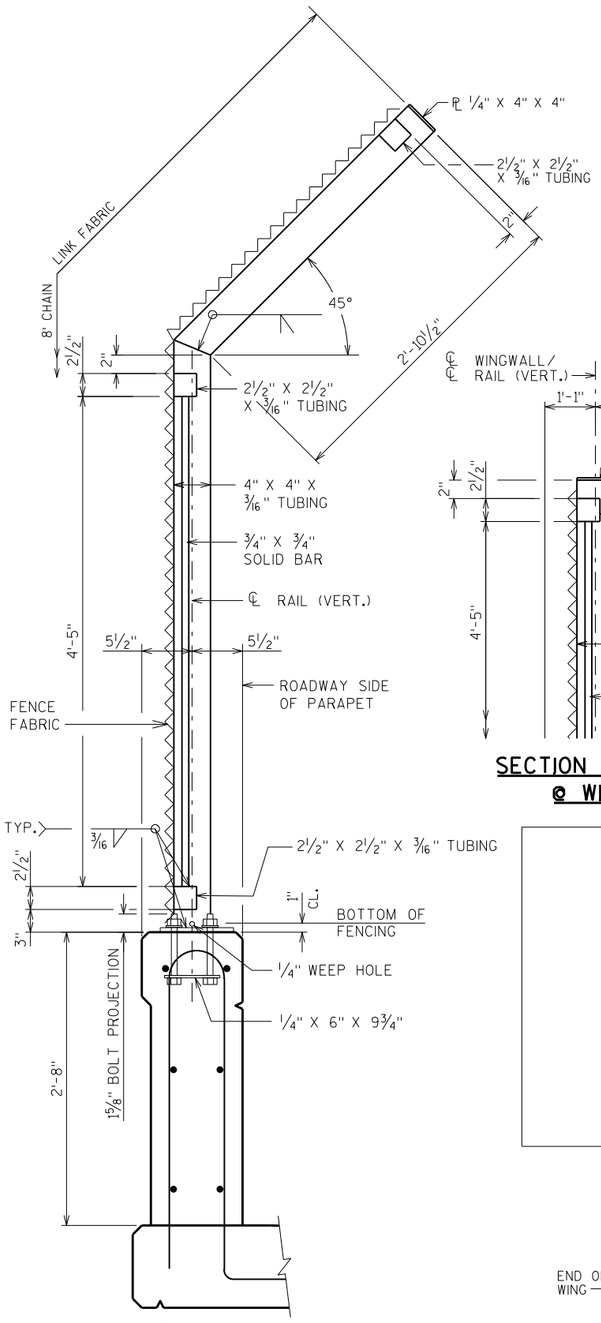
BASE PLATE



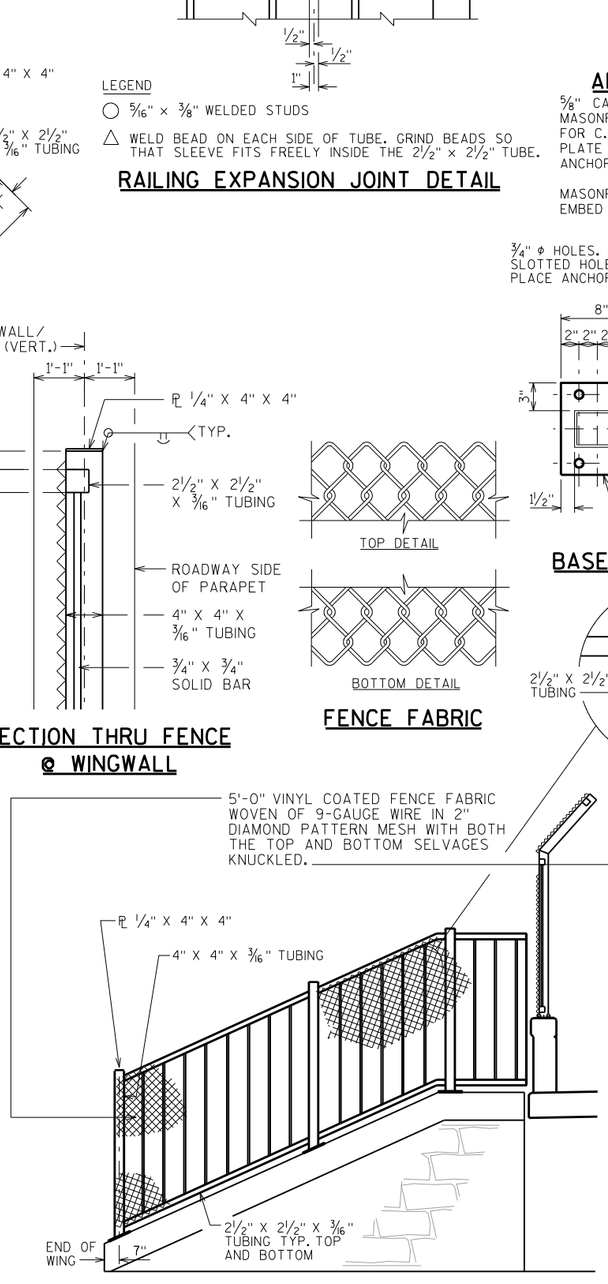
FENCE FABRIC



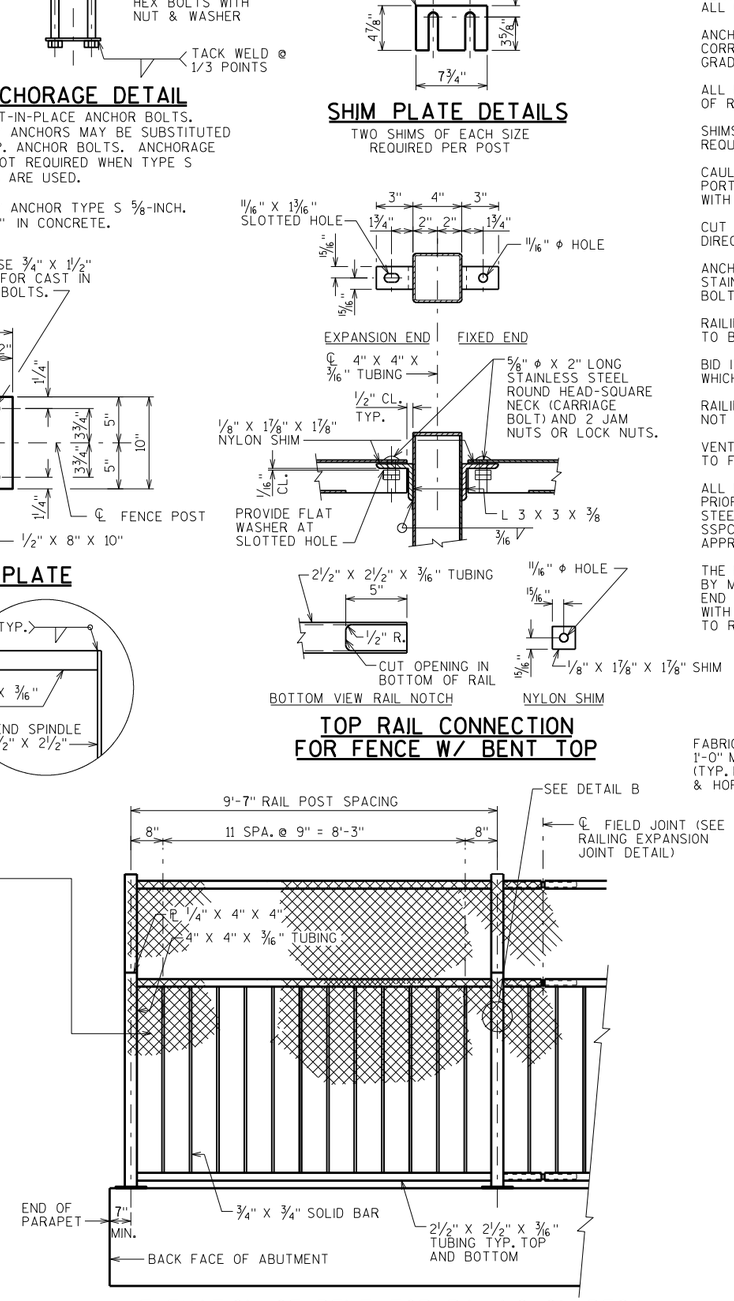
SECTION THRU FENCE @ WINGWALL



SECTION THRU FENCE @ PARAPET

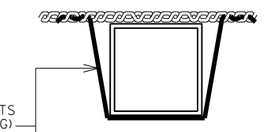


ELEVATION OF RAILING AT WINGS

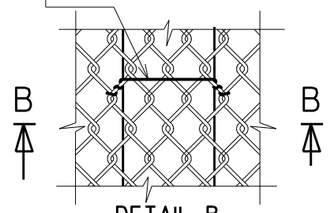


ELEVATION OF BENT TOP RAILING ON DECK

TOP RAIL CONNECTION FOR FENCE W/ BENT TOP



SECTION B-B



DETAIL B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

ORNAMENTAL PROTECTIVE SCREENING

SHEET 22

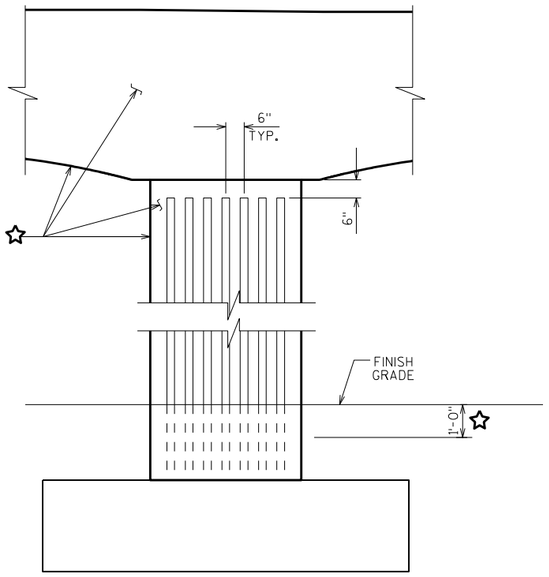
679

SCALE =

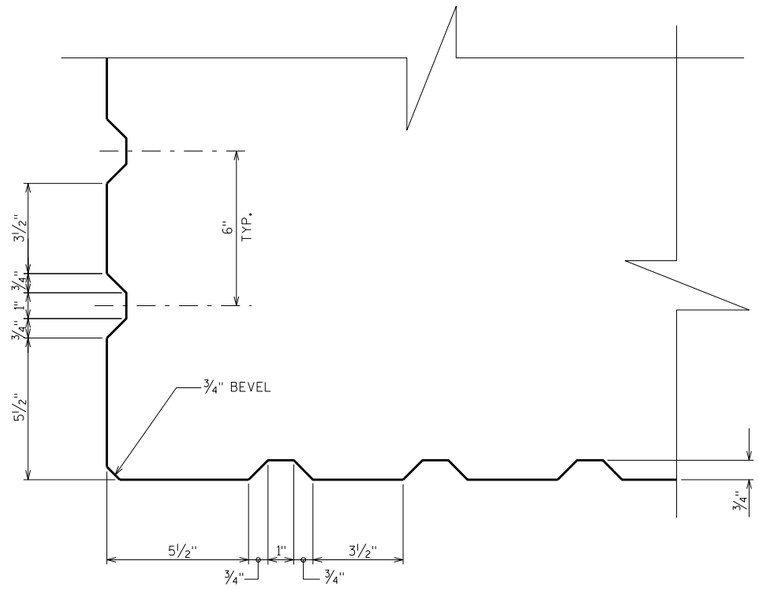
SCREENING
7-13

STATE PROJECT NUMBER

8110-02-72

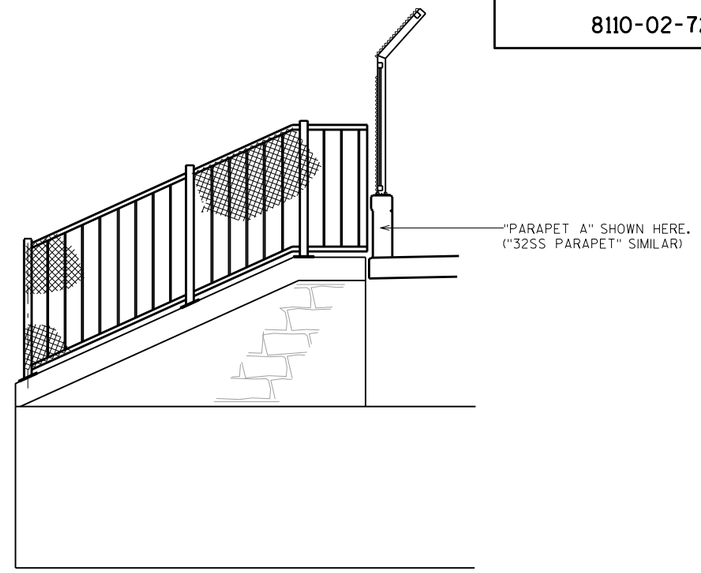


RUSTICATION DETAILS AT PIER



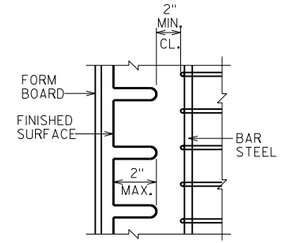
PART. PLAN AT PIER COLUMN

(TYPICAL AT ALL CORNERS)



FENCE AT WING ELEVATION

(TYPICAL AT ALL CORNERS)



SECTION THRU FORMLINER

☆ FEDERAL COLOR #20460 (LIGHT TAN), INCLUDES PARAPET, DECK, EXT. GIRDER, PIER COLUMNS, AND PIER CAP, AS SHOWN.

ARCHITECTURAL SURFACE TREATMENT NOTES:

FORMLINER COURSING ON ABUTMENT WING WALLS SHALL BE LEVEL.

THE FORMLINER COURSING SHALL BE VERTICALLY ALIGNED.

ALL FORMLINER WORK SHALL BE COVERED UNDER THE BID ITEM "ARCHITECTURAL SURFACE TREATMENT B-55-226".

ALL ARCHITECTURAL SURFACE TREATMENT FORMLINER AREAS SHALL BE STAINED IN A RANDOMLY MIXED COLOR ARRANGEMENT TO ACHIEVE A TEXTURED LOOK AS DIRECTED BY THE ENGINEER. APPLY A MULTI-COLOR STAIN USING A BASE COLOR AND ACCENT COLORS (A MINIMUM OF FIVE STAIN COLORS WILL BE REQUIRED).

FORMLINER RECTANGULAR CUT STONE SHALL BE SIMILAR TO MILESTONES, INCORPORATED, PATTERN MS-1028, 9" REDUCED RELIEF WEATHERED LIMESTONE.

AESTHETIC DETAILS SHALL MATCH ADJACENT PROJECT (B-55-224 STATE PROJECT #8110-02-70) AESTHETICS OR AS DIRECTED BY THE DEPARTMENT.

STAINING NOTES:

STAINING OF NON-ARCHITECTURAL SURFACE TREATMENT AREAS SHALL BE PAID FOR UNDER THE BID ITEM "CONCRETE STAINING B-55-226".

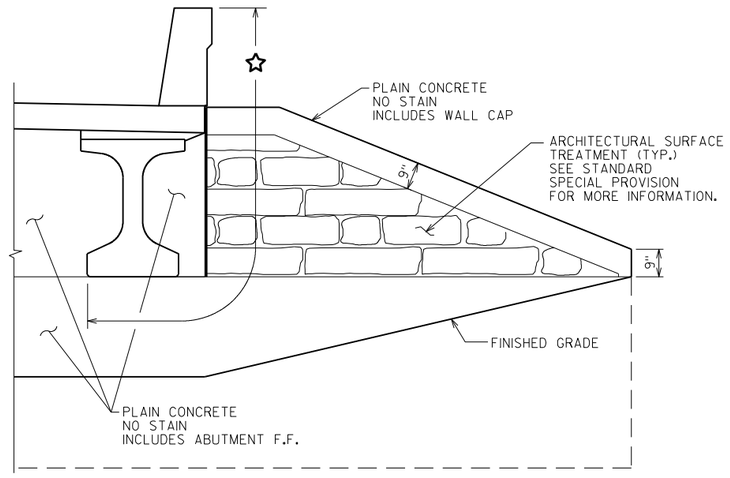
STAINING OF ARCHITECTURAL SURFACE TREATMENT AREAS SHALL BE PAID FOR UNDER THE BID ITEM "CONCRETE STAINING MULTI-COLOR B-55-226".

IF TOUCH UP PAINTING IS REQUIRED, IT SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST.

STAINING SHALL EXTEND TO AT LEAST 1'-0" MIN. BELOW THE FINISH GRADE AT PIER COLUMNS.

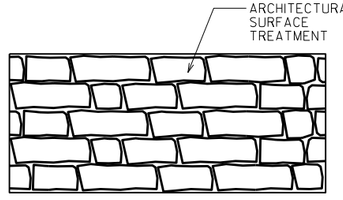
JOINT FILLER NOTES:

JOINT FILLER COLOR SHALL MATCH ADJACENT PROJECT (B-55-224 STATE PROJECT #8110-02-70) AESTHETICS OR AS DIRECTED BY THE DEPARTMENT.



PARTIAL ABUTMENT ELEVATION

(TYPICAL AT ALL CORNERS)



WEATHERED LIMESTONE

COURSE HEIGHT = 9 ± 2"
MAX RELIEF = 2"
MIN RELIEF = 1½"

FORMLINER DETAILS AT ABUTMENT AND WALLS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

AESTHETIC DETAILS

SHEET 23

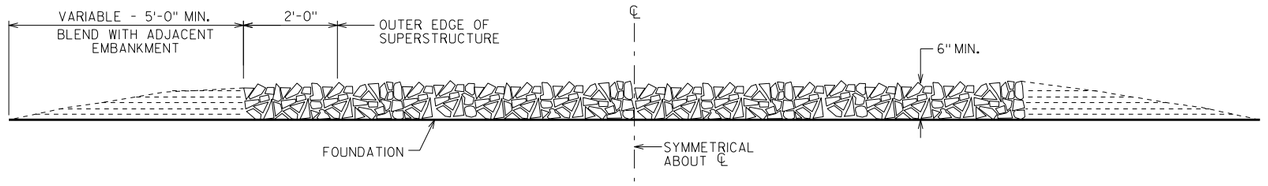
680

SCALE =

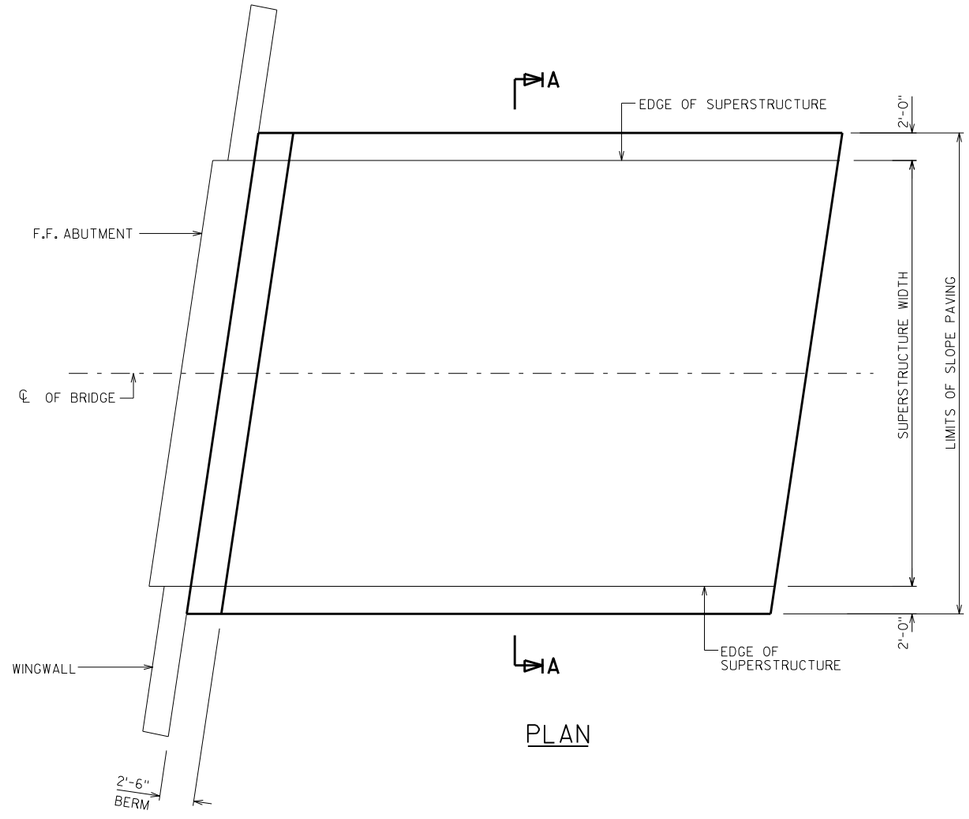
8

8

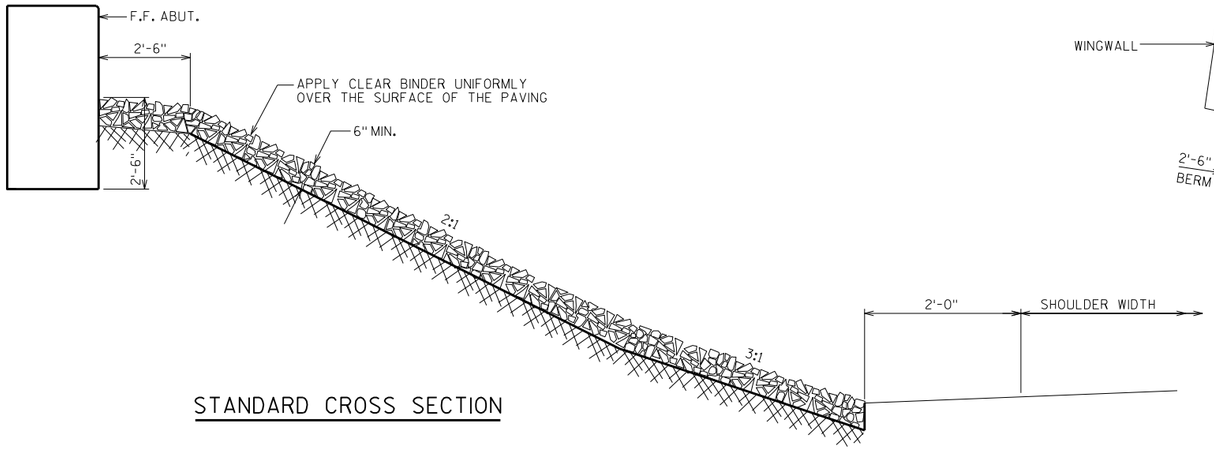
STATE PROJECT NUMBER
8110-02-72



SECTION A-A



PLAN



STANDARD CROSS SECTION

8

8

GENERAL NOTES

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

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

SLOPE PAVING
CRUSHED AGGREGATE
(MODIFIED)

SHEET 24

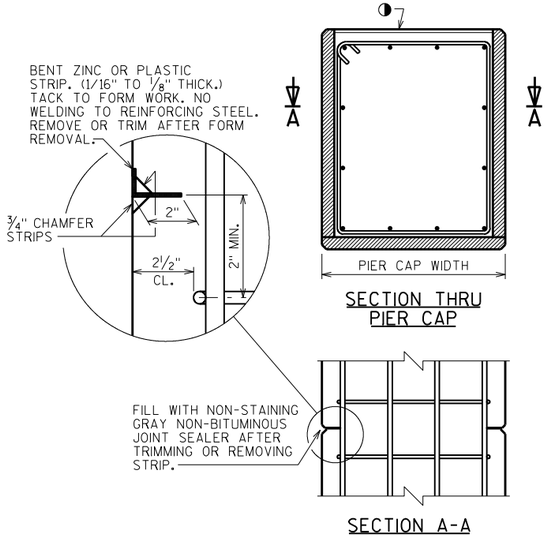
681

SCALE =

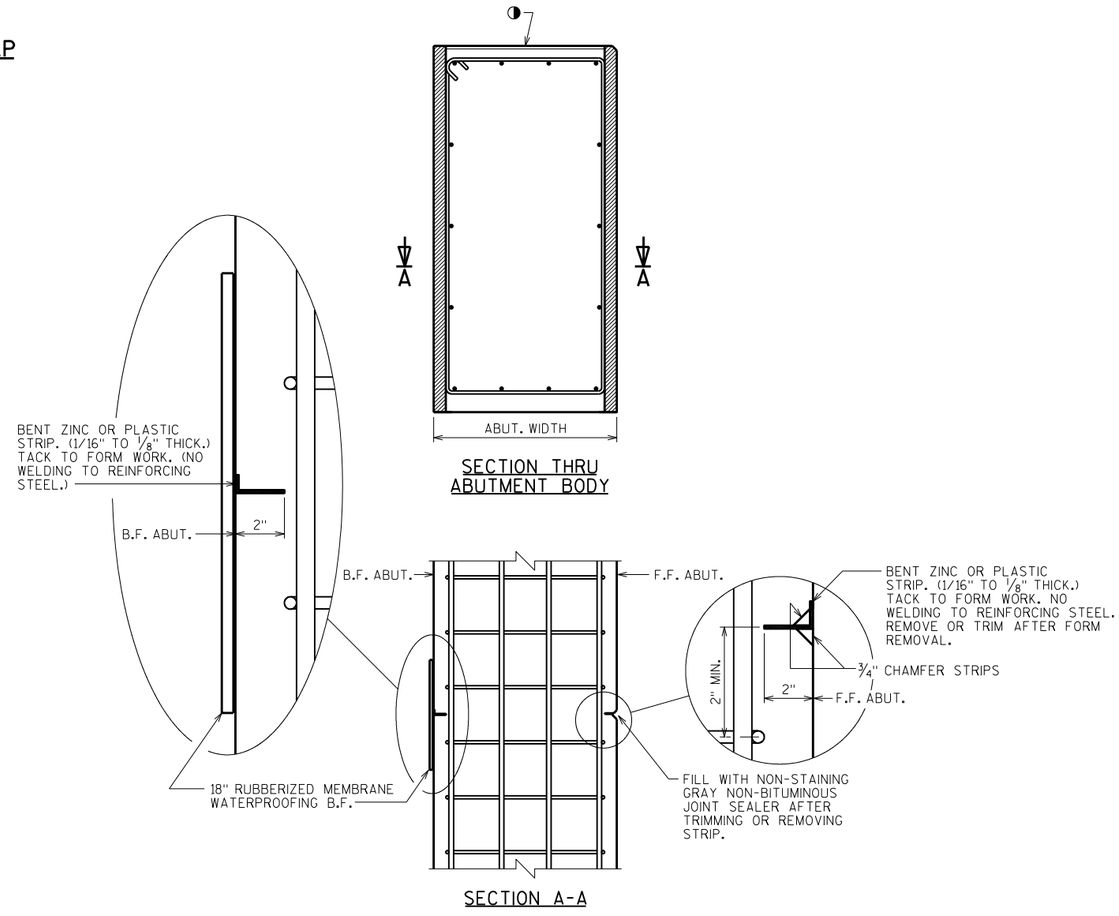
SLPPAVCRAG

STATE PROJECT NUMBER

8110-02-72



ALTERNATE CONSTRUCTION JOINT AT PIER CAP



ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-55-226

DRAWN BY WWR | PLANS CK'D. JLR

ALTERNATE CONSTRUCTION JOINT

SHEET 25

682

8

8

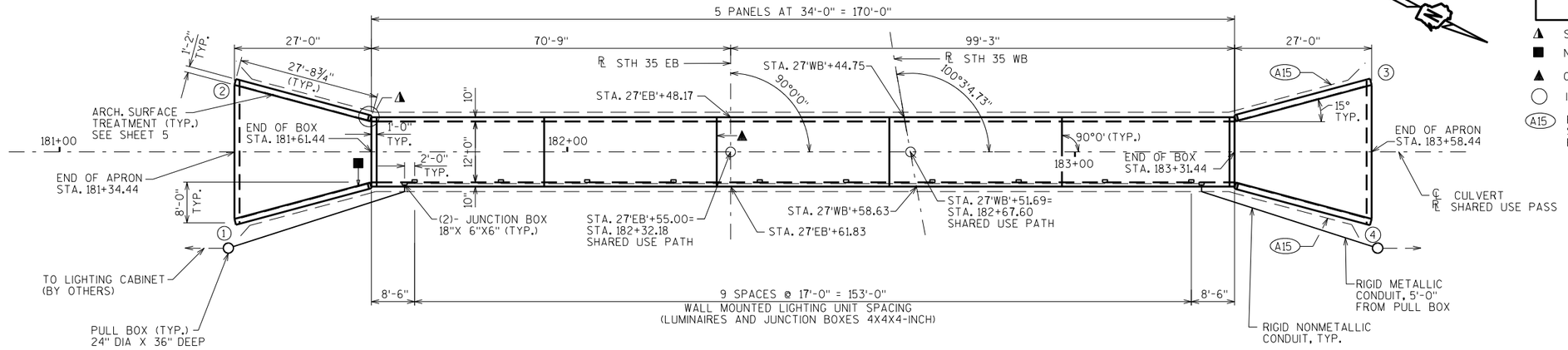
1 2 3 6

SCALE =

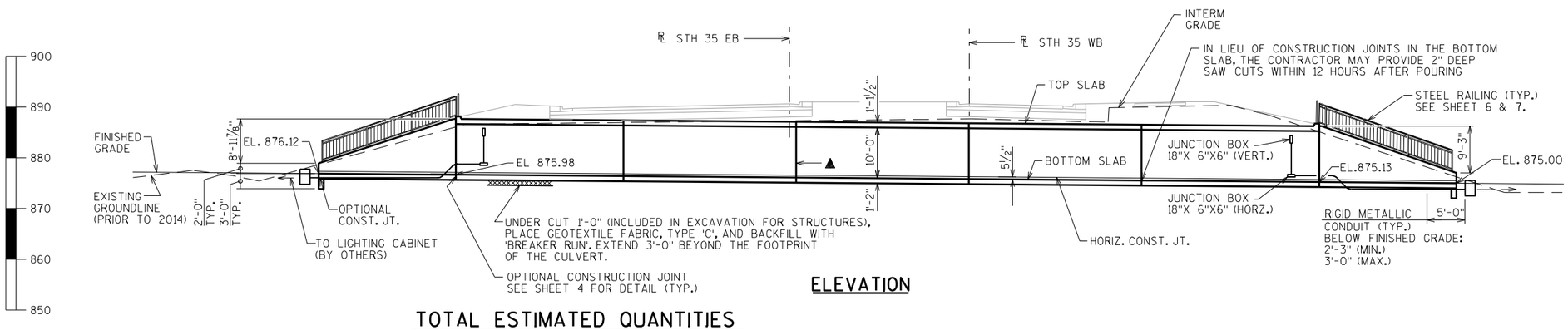
ALTJOINT
10-08

STATE PROJECT NUMBER
8110-02-72

▲ SEE CORNER DETAILS (SEE SHT 4), TYP.
■ NAME PLATE LOCATION (SEE SHT 5)
▲ CONST. JOINT (TYP.)
◯ INDICATES WING NUMBER
(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED.



PLAN



ELEVATION

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-55-35	LS	1
210.0100	BACKFILL STRUCTURE	CY	2650
311.0115	BREAKER RUN	CY	180
504.0100	CONCRETE MASONRY CULVERTS	CY	385
505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	34,610
505.0610	BAR STEEL REINFORCEMENT HS COATED CULVERTS	LB	4,210
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	52
517.01015.S	CONCRETE STAINING MULTI-COLOR C-55-35	SF	540
517.1050.S	ARCHITECTURAL SURFACE TREATMENT C-55-35	SF	540
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	460
645.0105	GEOTEXTILE FABRIC TYPE C	SY	590
652.0110	CONDUIT RIGID METALLIC 1-INCH	LF	10
652.0210	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH	LF	240
653.0220	JUNCTION BOXES 18X6X6-INCH	EACH	4
653.0135	PULL BOXES STEEL 24X36-INCH	EACH	2
659.1205	LUMINAIRES UNDERDECK LED A	EACH	10
SPV.0060	JUNCTION BOXES 4X4X4-INCH	EACH	10
SPV.0105	RAILING STEEL TYPE C2 GALVANIZED PEDESTRIAN C-55-35	LS	1
	NON-BID ITEMS		
	FILLER	SIZE	¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-55-35" SHALL BE THE EXISTING GROUNDLINE.

STRUCTURE BACKFILL IS REQUIRED BEHIND ALL WINGWALLS.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE ALTERNATE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS.

PLACE A 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS
5. AESTHETIC DETAILS
6. STEEL RAILING TYPE "C2" PEDESTRIAN
7. STEEL RAILING TYPE "C2" PED. DETAILS
8. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:

JAMES LUEBKE (608) 266-5098
LAURA SHADEWALD (608) 267-9592

DESIGN DATA

LIVE LOAD:

DESIGN LOADING; HL-93
INVENTORY RATING FACTOR: RF=1.05
OPERATING RATING FACTOR: RF=1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 190 (KIPS)

EARTHLOAD: DESIGNED FOR 2.0 FT. - 4.0 FT. OF FILL.

ULTIMATE DESIGN STRESSES:
CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

STH 35
A.D.T. = 8,250 (2035)
R.D.S. = 50 M.P.H.

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES
ACCEPTED William C. Dreher LLS 8/4/14
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-55-35
S.T.H 35 OVER PEDESTRIAN UNDERPASS

COUNTY	TOWN ~~CITY/VILLAGE~~
ST. CROIX	ST. JOSEPH

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JDL	DFD	JDL	DFD

LAYOUT

SHEET 1 OF 8

683

SCALE = 12

I.D. 8110-02-01C

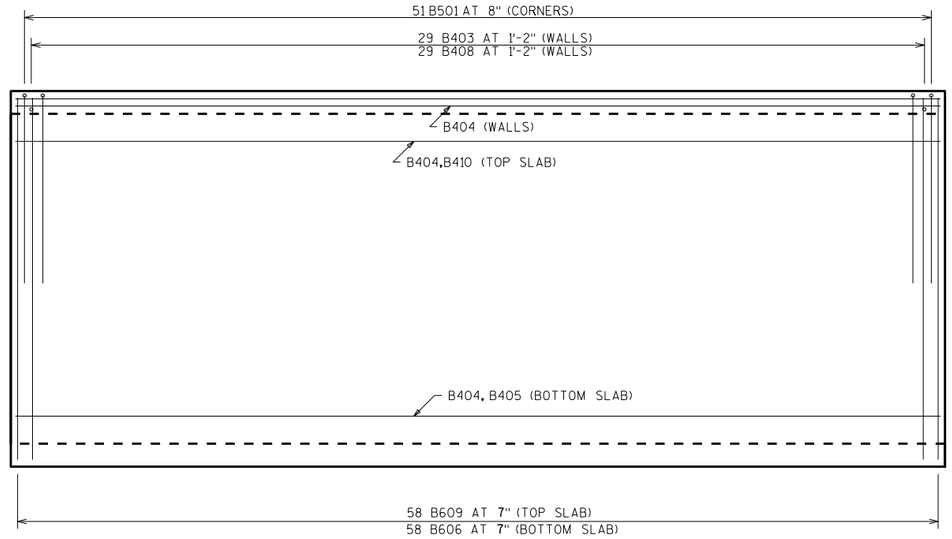
DATE: AUGUST 2014

8

8

STATE PROJECT NUMBER

8110-02-72



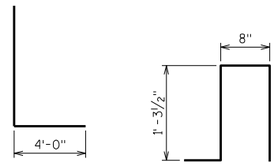
PLAN VIEW OF PANEL

USE IDENTICAL STEEL IN OTHER PANELS.
APRON AND HEADER ARE NOT SHOWN.

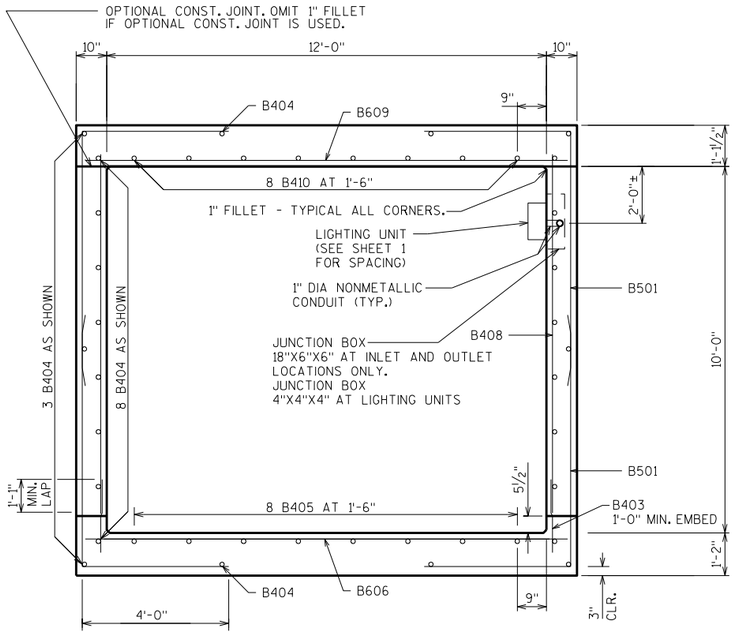
BILL OF BARS

THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE.
LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS.
PAYMENT BASED ON BAR LENGTHS AS DETAILED.

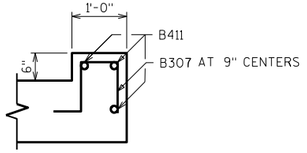
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
B501		1020	10-9	X		CORNERS
B502		192	4-0			VERT.CONST.JOINT
B403		290	2-3			WALLS-DOWELS VERT.
B404		130	33-6			TOP&BOTTOM SLAB & WALL
B405		40	33-6			BOTTOM SLAB LONGIT.
B606		290	13-2			BOTTOM SLAB TRANS.
B307		36	3-6	X		HEADER STIRRUPS VERT.
B408		290	10-5			WALLS VERT.
B609		290	13-2			TOP SLAB TRANS.
B410		40	33-6			TOP SLAB LONGIT.
B411		6	13-4			HEADERS HORIZ.



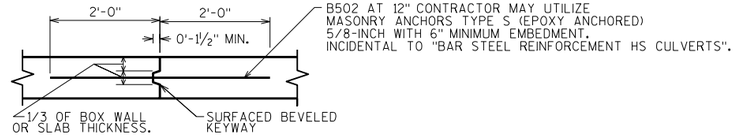
B501 B307



TYPICAL SECTION THRU BOX

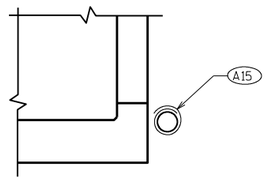


SECTION THRU TOP HEADER



VERTICAL CONSTRUCTION JOINT

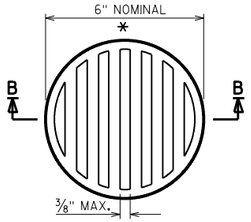
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

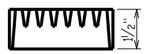


DRAINAGE DETAIL

(TYPICAL AT BOTTOM)

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED.





SECTION B-B

RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-35

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BOX DETAILS

SHEET 2

684

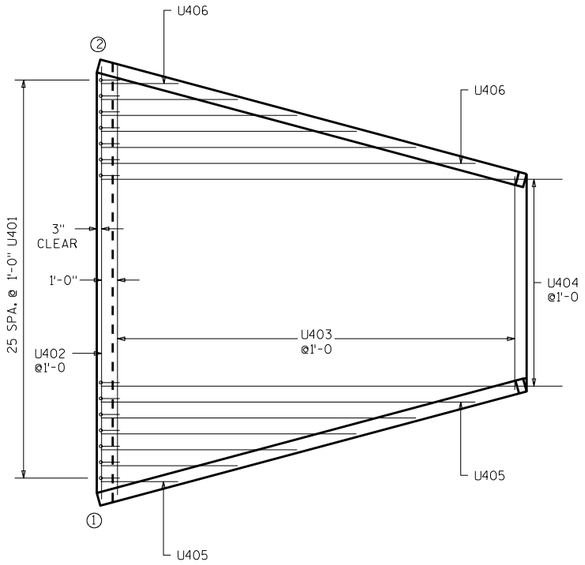
8

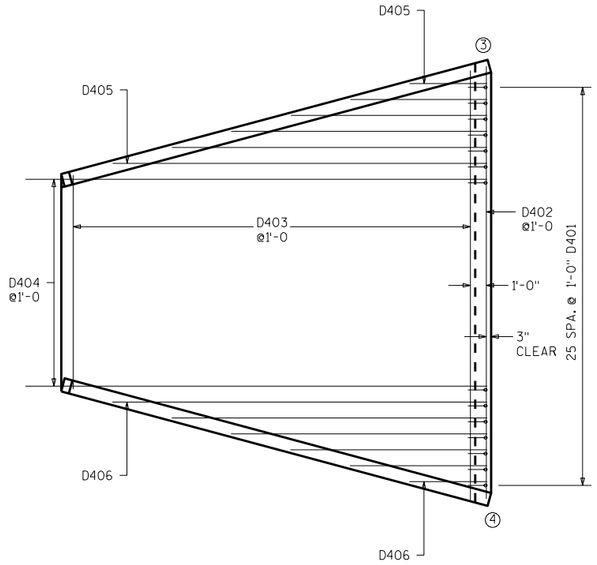
8

SCALE =

STATE PROJECT NUMBER

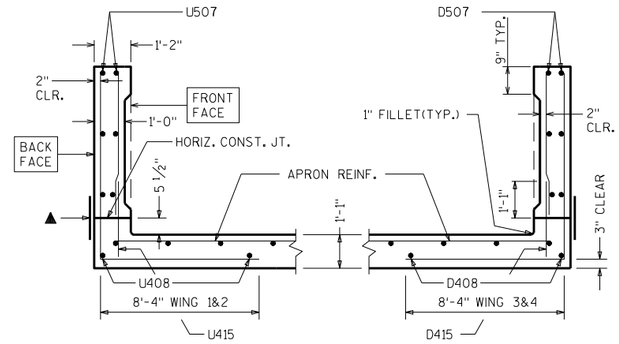
8110-02-72





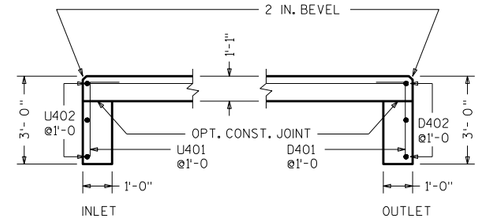
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



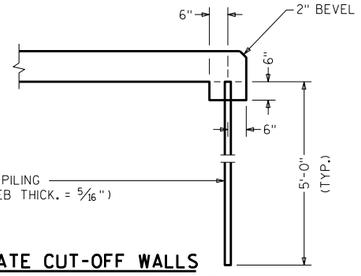
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



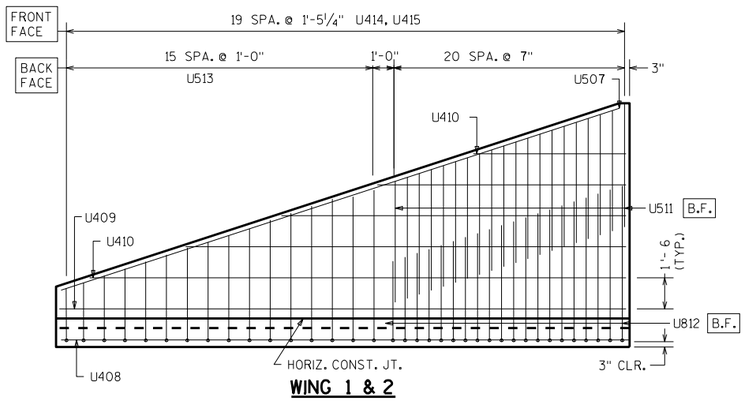
CUT-OFF WALLS

SECTION THRU THE WALLS

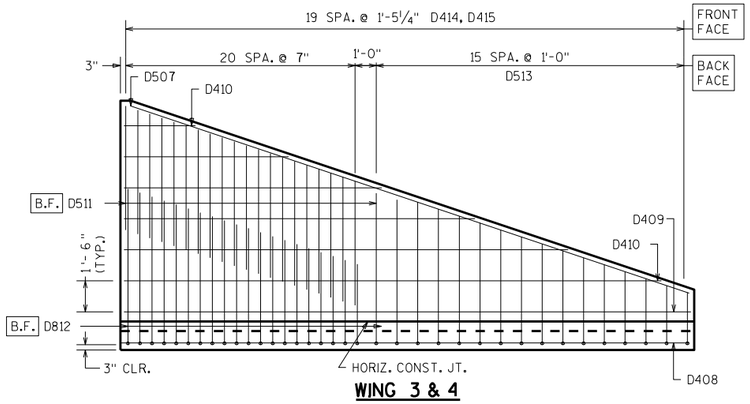


ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.



WING 1 & 2



WING 3 & 4

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-35

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APRON DETAILS

SHEET 3

685

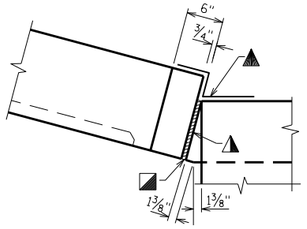
SCALE =

8

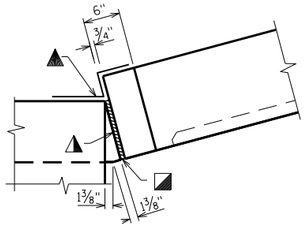
8

STATE PROJECT NUMBER

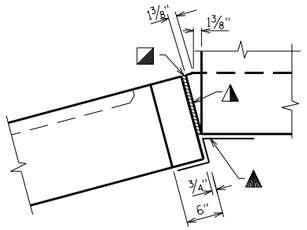
8110-02-72



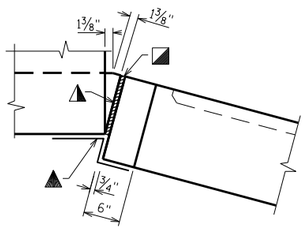
CORNER 2



CORNER 3



CORNER 1



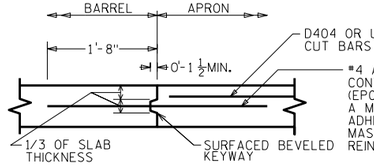
CORNER 4

CORNER DETAILS

▲18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

1" BEVEL TYPICAL

▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.



OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		26	3 - 6	X		INLET APRON AND CUTOFF WALL
U402		3	26 - 11			INLET APRON AND CUTOFF WALL
U403		26	21 - 2		▲	" APRON
U404		14	29 - 0			" APRON
U405		6	15 - 7		▲	" APRON
U406		6	15 - 7		▲	" APRON
U507		4	28 - 8			WINGS 1 AND 2 -HORIZONTAL -BOTH FACES
U408		4	27 - 4			WING " -HORIZONTAL -APRON BOTT. SLAB
U409		4	27 - 4			WING " -HORIZONTAL - BOTH FACES
U410		24	14 - 10		▲	WING " -HORIZONTAL - BOTH FACES
U511		42	6 - 6			WING " -VERTICAL - BACK FACE
U812	X	42	14 - 4	X	▲	WING " -VERTICAL - BACK FACE
U513	X	32	13 - 2	X	▲	WING " -VERTICAL - BACK FACE
U414		40	5 - 11		▲	WING " -VERTICAL - FRONT FACE
U415	X	40	2 - 3			WINGS 1 AND 2 - DOWELS - FRONT FACE
D401		26	3 - 6	X		OUTLET APRON AND CUTOFF WALL
D402		3	26 - 11			OUTLET APRON AND CUTOFF WALL
D403		26	21 - 2		▲	" APRON
D404		14	29 - 0			" APRON
D405		6	15 - 7		▲	" APRON
D406		6	15 - 7		▲	" APRON
D507		4	28 - 8			WINGS 3 AND 4 -HORIZONTAL -BOTH FACES
D408		4	27 - 4			WING " -HORIZONTAL -APRON BOTT. SLAB
D409		4	27 - 4			WING " -HORIZONTAL - BOTH FACES
D410		24	14 - 10		▲	WING " -HORIZONTAL - BOTH FACES
D511		42	6 - 6			WING " -VERTICAL - BACK FACE
D812	X	42	14 - 4	X	▲	WING " -VERTICAL - BACK FACE
D513	X	32	13 - 2	X	▲	WING " -VERTICAL - BACK FACE
D414		40	5 - 11		▲	WING " -VERTICAL - FRONT FACE
D415	X	40	2 - 3			WINGS 3 AND 4 - DOWELS - FRONT FACE

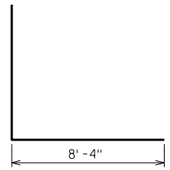
▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

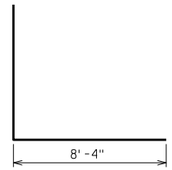
BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U403	1 SERIES OF 26	14 - 5 TO 27 - 10
U405	1 SERIES OF 6	6 - 3 TO 24 - 10
U406	1 SERIES OF 6	6 - 3 TO 24 - 10
U410	4 SERIES OF 6	3 - 7 TO 26 - 0
U812	2 SERIES OF 21	12 - 8 TO 15 - 11
U513	2 SERIES OF 16	10 - 8 TO 15 - 7
U414	2 SERIES OF 20	1 - 4 TO 10 - 5
D403	1 SERIES OF 26	14 - 5 TO 27 - 10
D405	1 SERIES OF 6	6 - 3 TO 24 - 10
D406	1 SERIES OF 6	6 - 3 TO 24 - 10
D410	4 SERIES OF 6	3 - 7 TO 26 - 0
D812	2 SERIES OF 21	12 - 8 TO 15 - 11
D513	2 SERIES OF 16	10 - 9 TO 15 - 7
D414	2 SERIES OF 20	1 - 4 TO 10 - 5

U401, D401



U812, D812



U613, D613

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-35

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DETAILS

SHEET 4

686

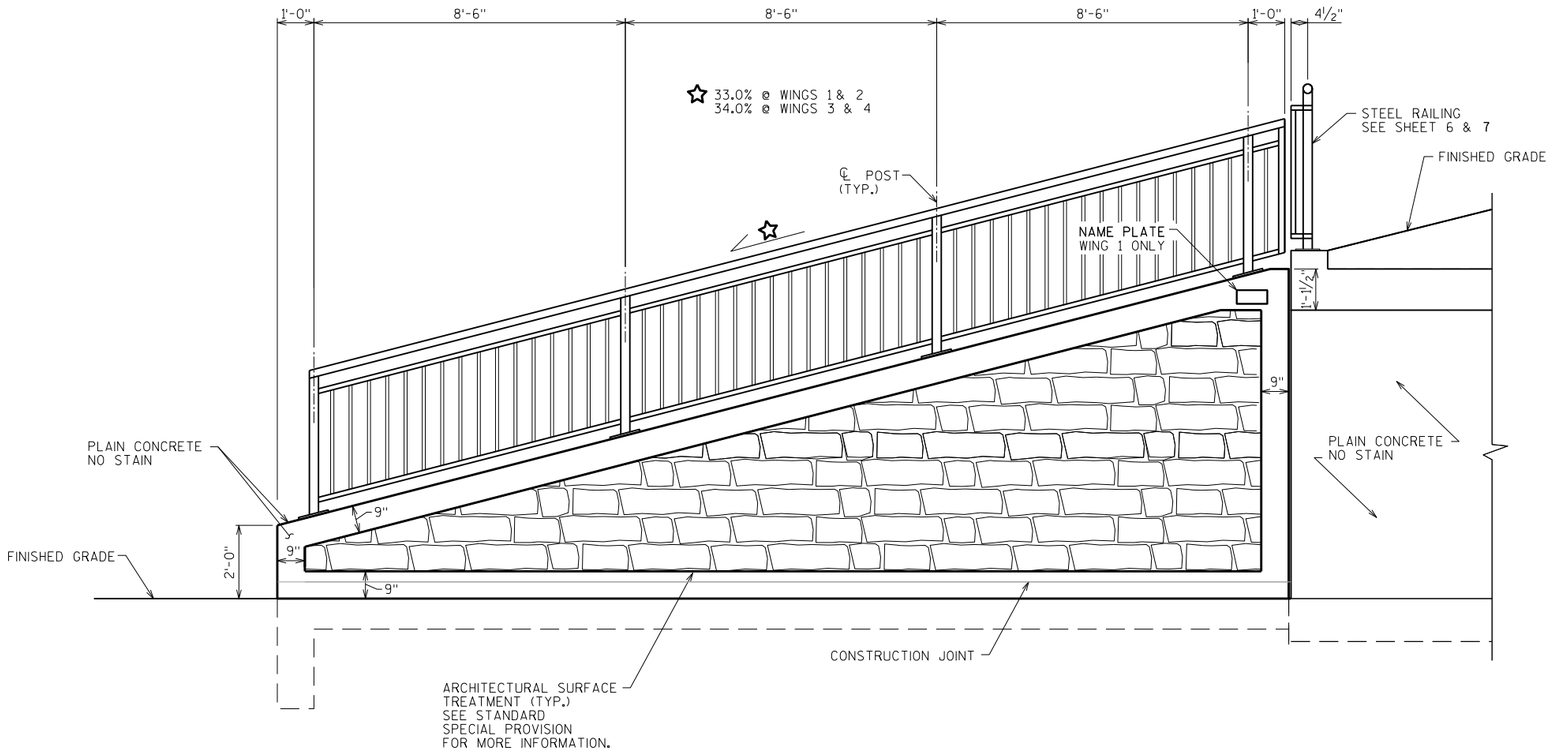
SCALE =

8

8

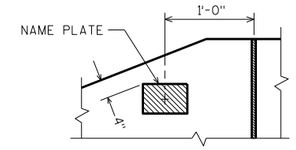
STATE PROJECT NUMBER

8110-02-72



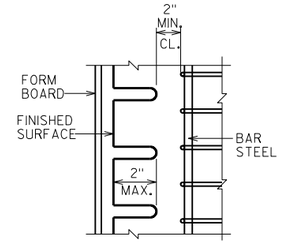
WING ELEVATION

(TYPICAL AT ALL WINGS)

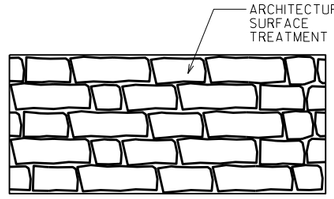


NAME PLATE LOCATION

(AT WING 1 ONLY)



SECTION THRU FORMLINER



RECTANGULAR CUT STONE

COURSE HEIGHT = 9 ± 2"
MAX RELIEF = 2"

FORMLINER DETAILS AT WALLS

ARCHITECTURAL SURFACE TREATMENT NOTES:

FORMLINER COURSING ON WALLS SHALL BE LEVEL.

THE FORMLINER COURSING SHALL BE VERTICALLY ALIGNED.

ALL FORMLINER WORK SHALL BE COVERED UNDER THE BID ITEM "ARCHITECTURAL SURFACE TREATMENT C-55-35".

ALL ARCHITECTURAL SURFACE TREATMENT FORMLINER AREAS SHALL BE STAINED IN A RANDOMLY MIXED COLOR ARRANGEMENT TO ACHIEVE A TEXTURED LOOK AS DIRECTED BY THE ENGINEER. APPLY A MULTI-COLOR STAIN USING A BASE COLOR AND ACCENT COLORS (A MINIMUM OF FIVE STAIN COLORS WILL BE REQUIRED).

FORMLINER RECTANGULAR CUT STONE SHALL BE SIMILAR TO MILESTONES, INCORPORATED, PATTERN MS-1028, 9" REDUCED RELIEF WEATHERED LIMESTONE.

AESTHETIC DETAILS SHALL MATCH ADJACENT PROJECT (B-55-224 STATE PROJECT #8110-02-70) AESTHETICS OR AS DIRECTED BY THE DEPARTMENT.

STAINING NOTES:

STAINING OF ARCHITECTURAL SURFACE TREATMENT AREAS SHALL BE PAID FOR UNDER THE BID ITEM "CONCRETE STAINING MULTI-COLOR C-55-35".

IF TOUCH UP PAINTING IS REQUIRED, IT SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST.

JOINT FILLER NOTES:

JOINT FILLER COLOR SHALL MATCH ADJACENT PROJECT (B-55-224 STATE PROJECT #8110-02-70) AESTHETICS OR AS DIRECTED BY THE DEPARTMENT.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-35

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AESTHETIC DETAILS

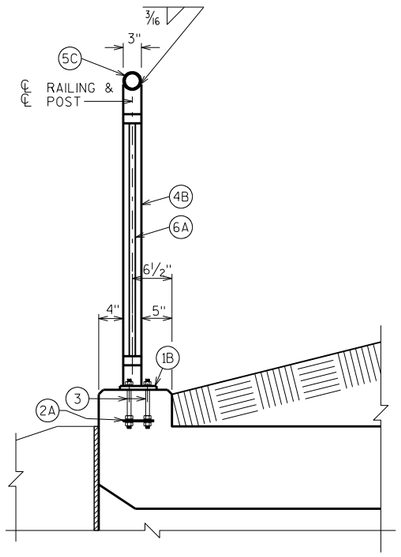
SHEET 5

687

SCALE =

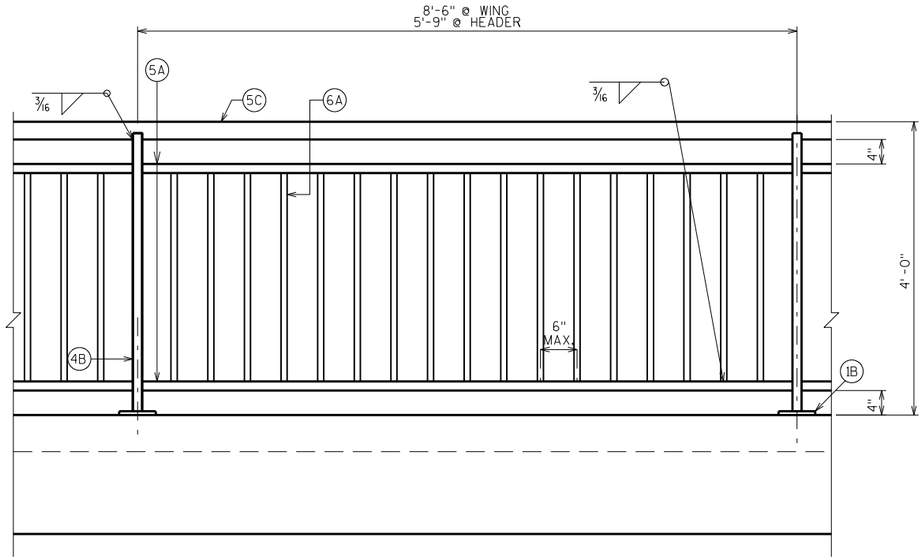
STATE PROJECT NUMBER

8110-02-72



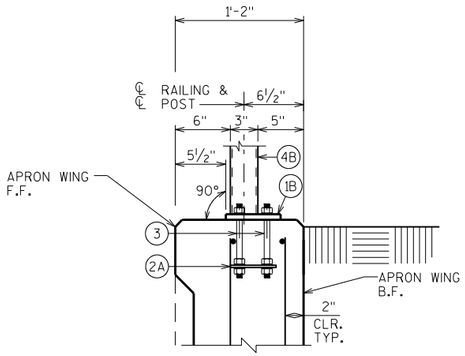
SECTION THRU HEADER

SECTION THRU WALL SIMILAR

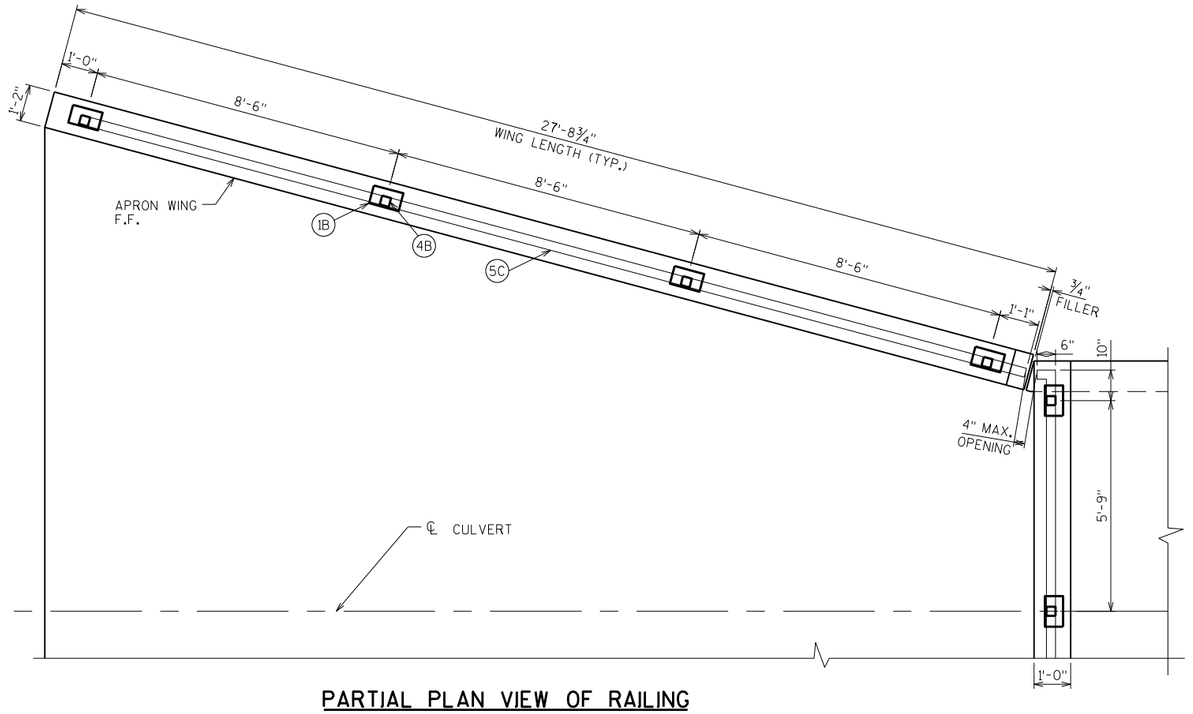


ELEVATION OF RAILING

HEADER SHOWN, APRON WING SIMILAR



SECTION THRU APRON WING



PARTIAL PLAN VIEW OF RAILING

WING 2 SHOWN ALL OTHERS SIMILAR

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-35

DRAWN BY JDL | PLANS CK'D. DFD

STEEL RAILING TYPE "C2" PEDESTRIAN

SHEET 6

688

8

8

1 2 3 4 6 11 12

SCALE = 1.000

STATE PROJECT NUMBER
8110-02-72

LEGEND

(1B) PLATE 5/8" X 6" X 10" WITH 3/4" X 1 1/2" SLOTTED HOLES.

(2B) 1/4" X 5" X 9" ANCHOR PLATE WITH 11/16" ϕ HOLES FOR THR'D. RODS NO. 3.

(3) 5/8" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE: 4 EQUIVALENT STAINLESS STEEL CONCRETE MASONRY ANCHORS TYPE S 5/8-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS.)

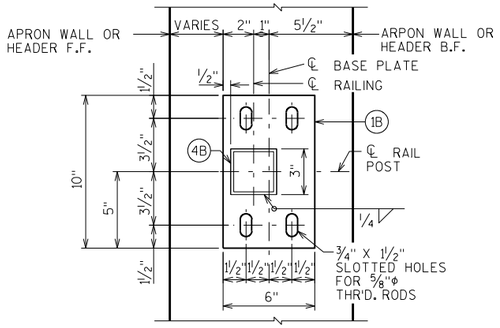
(4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1 1/2" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

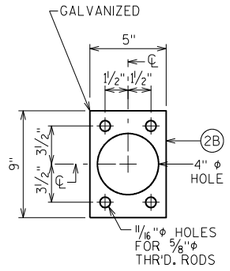
(5C) STRUCTURAL TUBING 2 1/2" ϕ (STANDARD SIZE) (2.875" O.D.). WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.

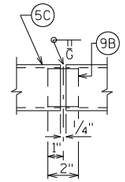
(9B) CIRCULAR SLEEVE FABRICATED FROM STRUCTURAL TUBING 2" ϕ (STANDARD SIZE) (2.375" O.D.)



TYPICAL RAIL POST BASE PLATE

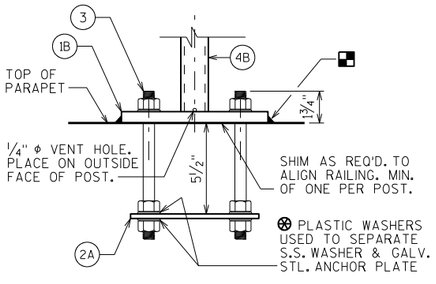


ANCHOR PLATE



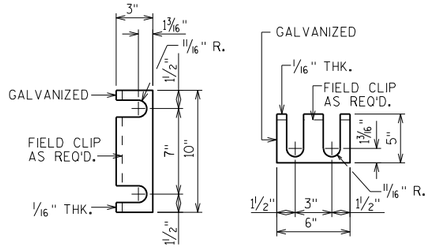
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



RAIL POST SHIM DETAIL

(2 SETS PER POST)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C2 GALVANIZED PEDESTRIAN C-55-35", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

⊛ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE "BRIDGE SPECIAL PROVISIONS". THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 27038, BLACK.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-35

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STEEL RAILING TYPE "C2" PED. DETAILS

SHEET 7

689

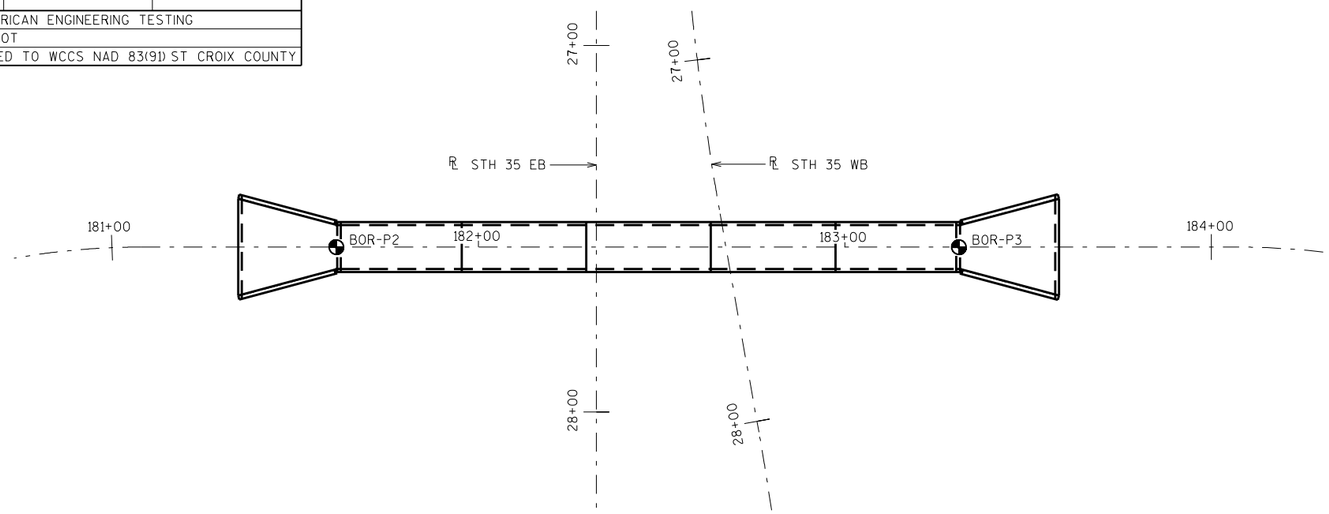
SCALE = 1.000

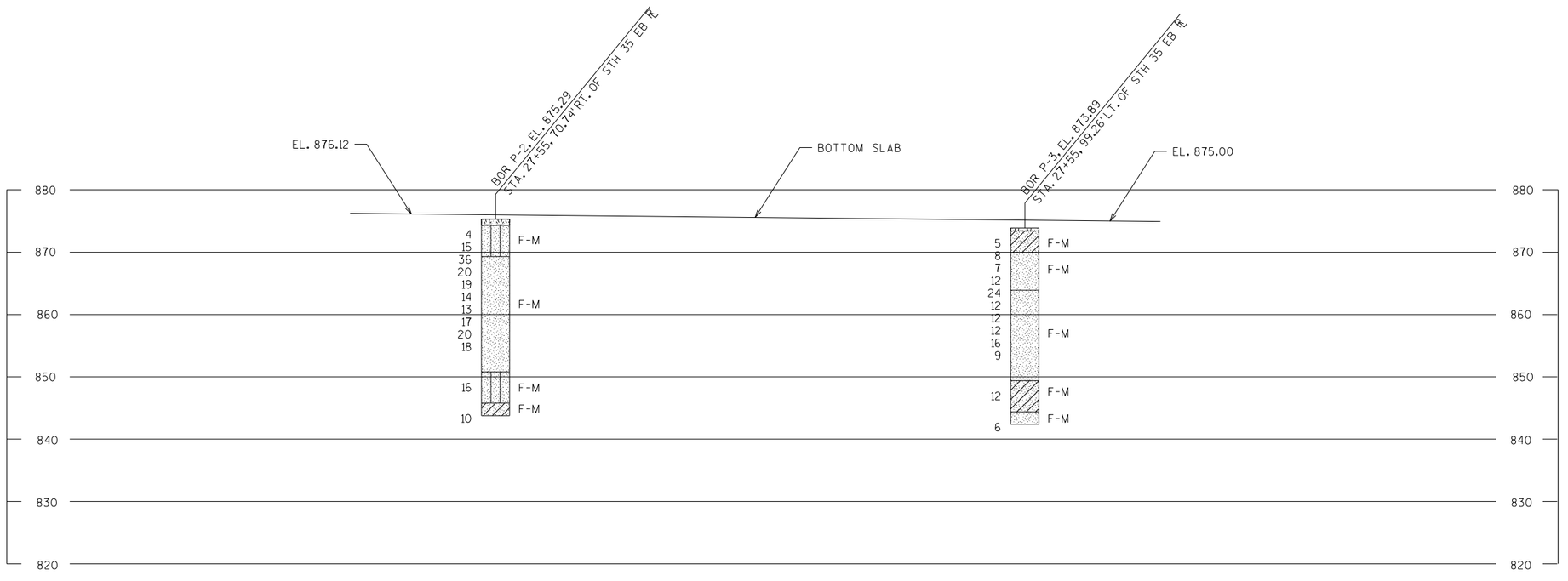
8

8

STILLWATER - SOMERSET

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
P2	5/13/2014	373,000.0	504,262.8
P3	6/13/2014	373,154.9	504,192.9
BORINGS COMPLETED BY: AMERICAN ENGINEERING TESTING			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) ST CROIX COUNTY			





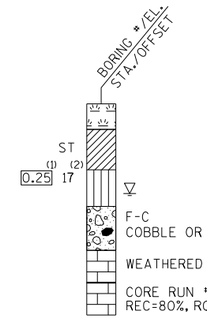
STATE PROJECT NUMBER

8110-02-72

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-35

DRAWN BY PR/JDL | PLANS CK'D. DFD

SUBSURFACE EXPLORATION

SHEET 8

690

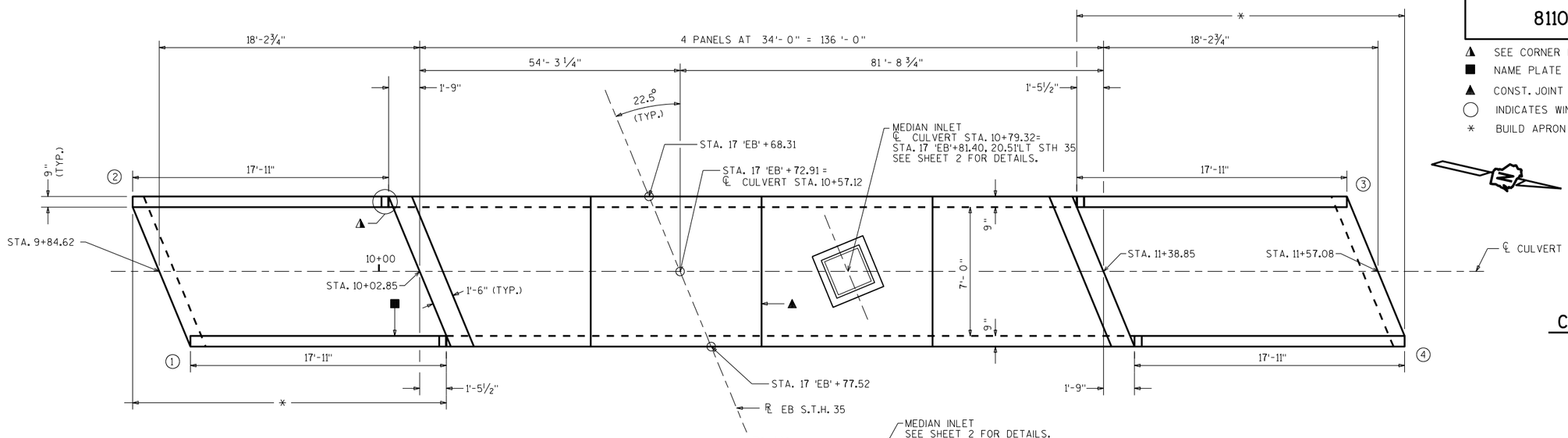
8

8

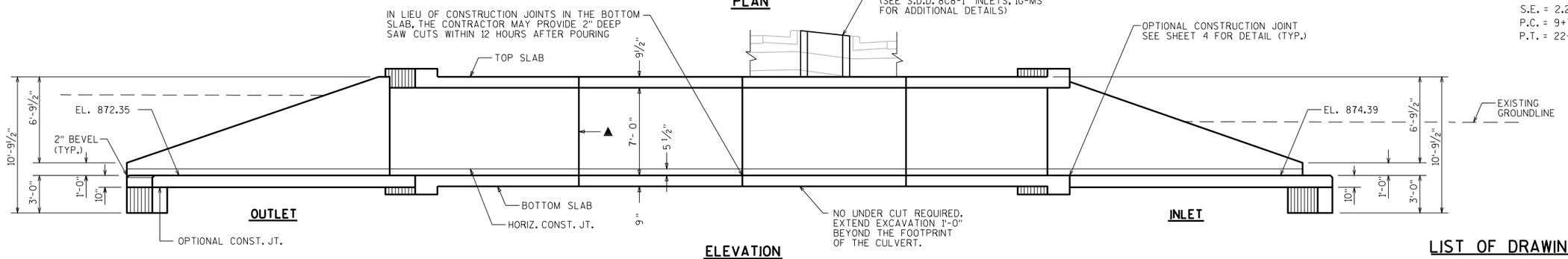
SCALE =

STATE PROJECT NUMBER
8110-02-72

▲ SEE CORNER DETAILS (SEE SHT 4), TYP.
■ NAME PLATE LOCATION (SEE SHT 4)
▲ CONST. JOINT (TYP.)
◯ INDICATES WING NUMBER
* BUILD APRON AND END OF BOX LEVEL



PLAN



ELEVATION

CURVE DATA

S.T.H. 35

P.I. = 16+02.44 EB
Δ = 18° 43' 14"
D = 1° 30' 15"
T = 627.87'
L = 1244.54'
R = 3809.00'
S.E. = 2.2%
P.C. = 9+74.58 EB
P.T. = 22+19.12 EB

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS
5. SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOAD:

DESIGN LOADING; HL-93
INVENTORY RATING FACTOR: RF=1.05
OPERATING RATING FACTOR: RF=1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 225 (KIPS)

EARTHLOAD: DESIGNED FOR 2.0 FT. - 4.0 FT. OF FILL.

ULTIMATE DESIGN STRESSES:
CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

TRAFFIC VOLUME

STH 35
A.D.T. = 8,250 (2035)
R.D.S. = 50 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-55-36	LS	1
210.0100	BACKFILL STRUCTURE	CY	1130
504.0100	CONCRETE MASONRY CULVERTS	CY	141
505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	17,670
505.0610	BAR STEEL REINFORCEMENT HS COATED CULVERTS	LB	1,710
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	31
611.0642	INLET COVERS TYPE MS	EACH	1
	NON-BID ITEMS		
	FILLER	SIZE	¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-55-36" SHALL BE THE EXISTING GROUNDLINE.

STRUCTURE BACKFILL IS REQUIRED BEHIND ALL WINGWALLS.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE ALTERNATE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALLS.

PLACE A 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

STRUCTURE DESIGN CONTACTS:
JAMES LUEBKE (608) 266-5098
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES
ACCEPTED William C. Dreher LLS — CHIEF STRUCTURES DESIGN ENGINEER — 8/4/14 DATE

STRUCTURE C-55-36

S.T.H. 35 OVER CATTLE PASS

COUNTY: ST. CROIX
TOWN ~~CITY/VILLAGE~~: ST. JOSEPH
DESIGN SPEC.: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS
DESIGNED BY JDL | DESIGN CK'D. DFD | DRAWN BY JDL | PLANS CK'D. DFD

LAYOUT

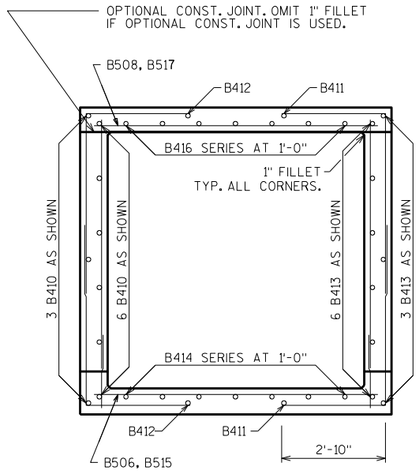
SHEET 1 OF 5

691

I.D. 8110-02-01D

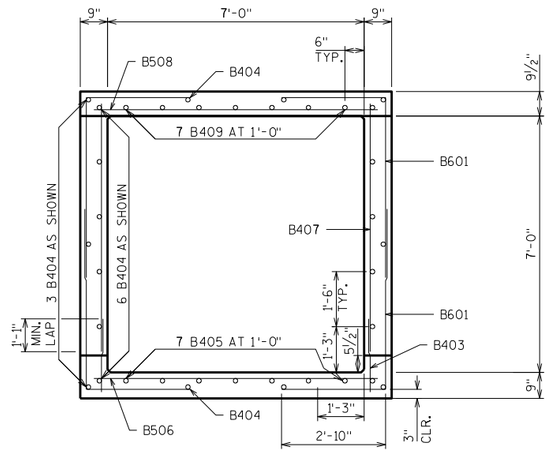
DATE: AUGUST 2014

SCALE = 4

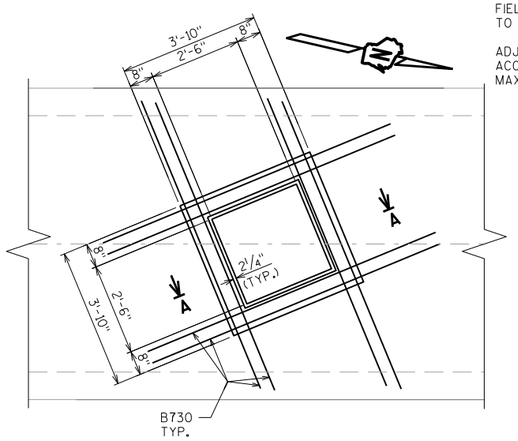


TYPICAL SECTION THRU BOX-EXTERIOR PANEL

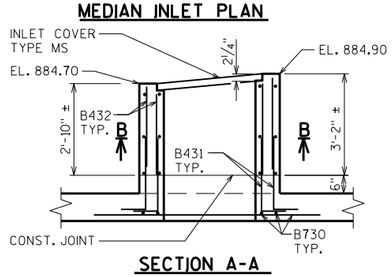
BAR LABELS AND DIMENSIONS NOT SHOWN ARE IDENTICAL TO THOSE SHOWN IN THE INTERIOR PANEL SECTION.



TYPICAL SECTION THRU BOX-INTERIOR PANEL

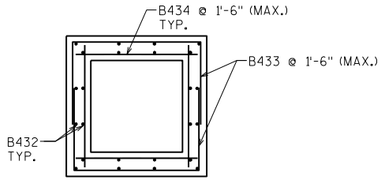


MEDIAN INLET PLAN



SECTION A-A

LOOKING UPSTATION



SECTION B-B

INLET NOTES

FIELD CUT BAR STEEL REINFORCEMENT IN TOP SLAB TO CLEAR THE OPENING PROVIDED FOR MEDIAN INLET.

ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK. MAXIMUM ADJUSTMENT SHALL BE 8"

BILL OF BARS

THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

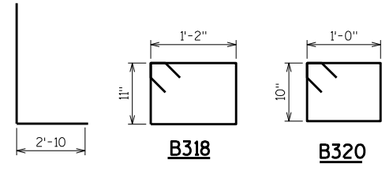
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
B601		656	7-9	X		CORNERS
B502		96	4-0			VERT.CONST.JOINT
B403		184	2-1			WALLS-DOWELS VERT.
B404		44	33-6			TOP&BOTTOM SLAB & WALL
B405		14	33-6			BOTTOM SLAB LONGIT.
B506		200	7-9			BOTTOM SLAB TRANS.
B407		184	7-2			WALLS VERT.
B508		200	7-9			TOP SLAB TRANS.
B409		14	33-6			TOP SLAB LONGIT.
B410		18	35-2			TOP&BOTTOM SLAB & WALL
B411		4	33-2			TOP&BOTTOM SLAB LONGIT.
B412		4	34-2			TOP&BOTTOM SLAB LONGIT.
B413		18	31-11			TOP&BOTTOM SLAB & WALL
B414		14	33-8		⚠	BOTTOM SLAB LONGIT.
B515		6	4-10		⚠	BOTTOM SLAB TRANS.
B416		14	33-8		⚠	TOP SLAB LONGIT.
B517		6	4-10		⚠	TOP SLAB TRANS.
B318		24	4-8	X		HEADER STIRRUPS VERT.
NOT USED						
B320		24	4-10	X		HEADER STIRRUPS VERT.
B721		24	8-10			HEADERS HORIZ.
B730		8	8-6			INLET TOP SLAB-HORIZ.
B431	X	24	3-4	X		INLET DOWEL
B432	X	24	2-6			INLET VERT.
B433	X	6	8-0	X		INLET HORIZ.
B434	X	12	3-4			INLET HORIZ.

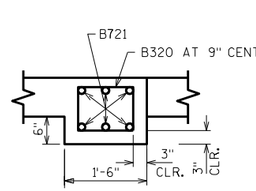
⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

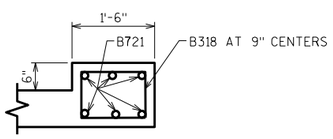
BAR MARK	LENGTH	NO.OF BARS/SERIES	NO.OF EACH SERIES
B414	32-9 TO 34-7	7	2
B515	3-3 TO 6-5	3	2
B416	32-5 TO 34-11	7	2
B517	3-3 TO 6-5	3	2

BUNDLE AND TAG EACH SERIES SEPARATELY



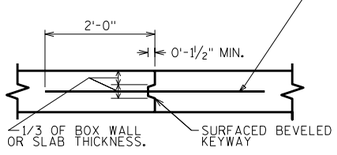


SECTION THRU BOTTOM HEADER



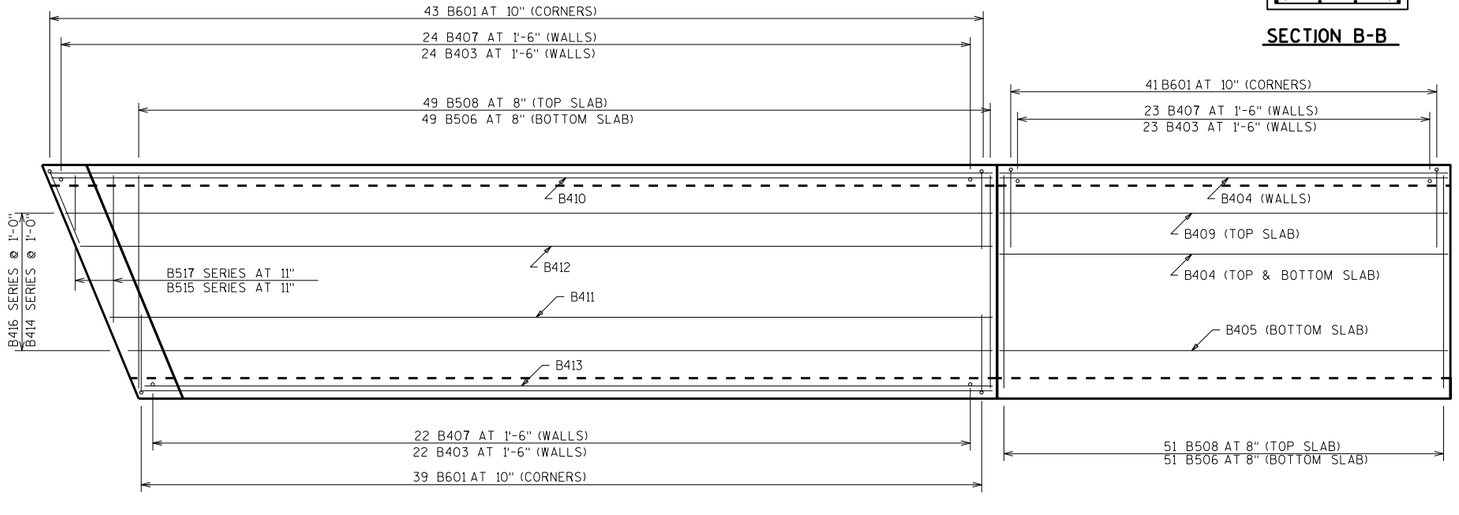
SECTION THRU TOP HEADER

B502 AT 12" CONTRACTOR MAY UTILIZE MASONRY ANCHORS TYPE S (EPOXY ANCHORED) 5/8-INCH WITH 6" MINIMUM EMBEDMENT. INCIDENTAL TO "BAR STEEL REINFORCEMENT HS CULVERTS".



VERTICAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



PLAN VIEW OF EXTERIOR PANEL

PLAN VIEW OF INTERIOR PANEL

HORIZONTAL SCALE = 1/2 OF VERTICAL SCALE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-36

DRAWN BY JDL | PLANS CK'D. DFD

BOX DETAILS

SHEET 2
692

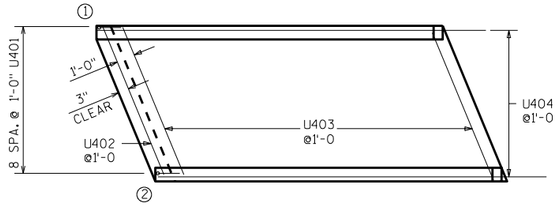
SCALE = 4

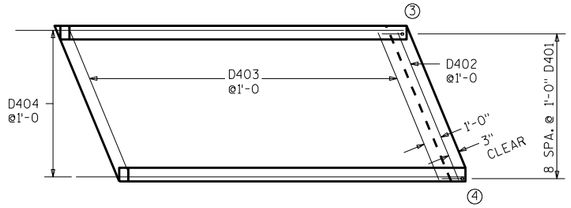
8

8

STATE PROJECT NUMBER

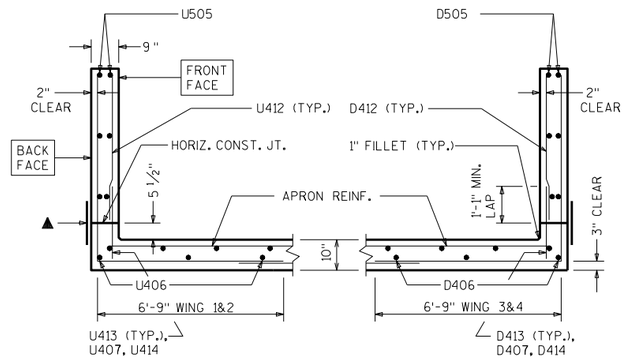
8110-02-72





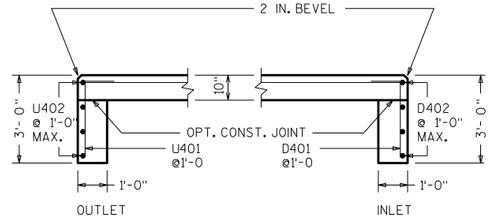
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



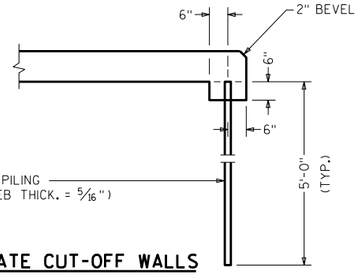
SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



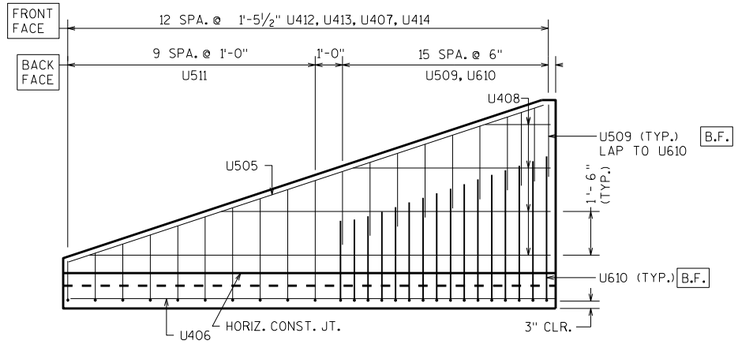
CUT-OFF WALLS

SECTION THRU THE WALLS

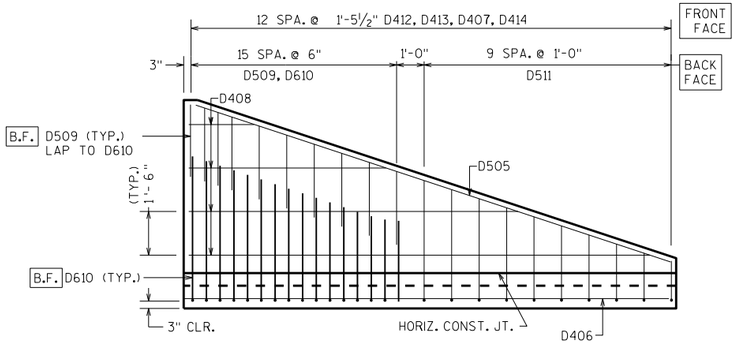


ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.



WING 1 & 2



WING 3 & 4

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-36

DRAWN BY JDL | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

693

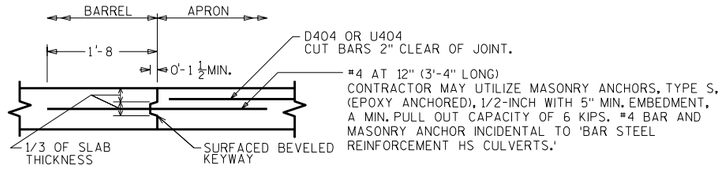
8

8

SCALE =

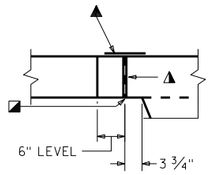
STATE PROJECT NUMBER

8110-02-72

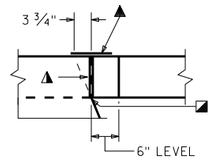


OPTIONAL CONSTRUCTION JOINT

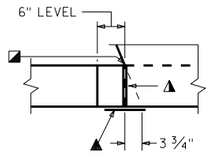
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



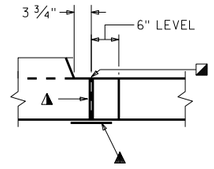
CORNER 2



CORNER 3



CORNER 1



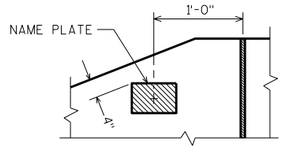
CORNER 4

CORNER DETAILS

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. EXTEND FROM HORIZ. CONST. FROM HORIZ. CONST. JT. TO TOP OF WALL.

◪ 1" BEVEL TYPICAL

◭ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.



NAME PLATE LOCATION WING 1

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

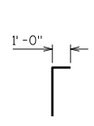
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		9	3 - 6	X		OUTLET APRON AND CUTOFF WALL
U402		4	8 - 8			OUTLET APRON AND CUTOFF WALL
U403		17	8 - 8			" APRON
U404		9	20 - 3			" APRON
U505		4	18 - 6			WINGS 1 AND 2 -HORIZONTAL -BOTH FACES
U406		4	17 - 6			WING "-HORIZONTAL -APRON BOTT. SLAB
D407	X	2	1 - 5			WING " -DOWELS - FRONT FACE WING-TIP
U408		16	11 - 8		◭	WING "-HORIZONTAL - BOTH FACES
U509		20	4 - 0			WING "-VERTICAL - BACK FACE
U610	X	32	11 - 3	X	◭	WING "-VERTICAL - BACK FACE
U511	X	20	9 - 9	X	◭	WING "-VERTICAL - BACK FACE
U412		22	4 - 4		◭	WING "-VERTICAL - FRONT FACE
U413	X	22	2 - 2			WING " -DOWELS - FRONT FACE
U414	X	2	1 - 11			WING " -DOWELS - FRONT FACE WING-TIP
D401		9	3 - 6	X		INLET APRON AND CUTOFF WALL
D402		4	8 - 8			INLET APRON AND CUTOFF WALL
D403		17	8 - 8			" APRON
D404		9	20 - 3			" APRON
D505		4	18 - 6			WINGS 3 AND 4 -HORIZONTAL -BOTH FACES
D406		4	17 - 6			WING "-HORIZONTAL -APRON BOTT. SLAB
D407	X	2	1 - 5			WING " -DOWELS - FRONT FACE WING-TIP
D408		16	11 - 8		◭	WING "-HORIZONTAL - BOTH FACES
D509		20	4 - 0			WING "-VERTICAL - BACK FACE
D610	X	32	11 - 3	X	◭	WING "-VERTICAL - BACK FACE
D511	X	20	9 - 9	X	◭	WING "-VERTICAL - BACK FACE
D412		22	4 - 4		◭	WING "-VERTICAL - FRONT FACE
D413	X	22	2 - 2			WING " -DOWELS - FRONT FACE
D414	X	2	1 - 11			WING " -DOWELS - FRONT FACE WING-TIP

◭ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

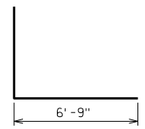
BAR SERIES TABLE

BUNDLE AND TAG EACH SERIES SEPARATELY

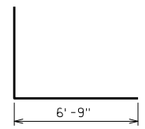
BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U408	4 SERIES OF 4	5 - 10 TO 17 - 5
U610	2 SERIES OF 16	9 - 10 TO 12 - 8
U511	2 SERIES OF 10	8 - 0 TO 11 - 6
U412	2 SERIES OF 11	1 - 6 TO 7 - 2
D408	4 SERIES OF 4	5 - 10 TO 17 - 5
D610	2 SERIES OF 16	9 - 10 TO 12 - 8
D511	2 SERIES OF 10	8 - 0 TO 11 - 6
D412	2 SERIES OF 11	1 - 6 TO 7 - 2



U401, D401



U610, D610



U511, D511

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-36

DRAWN BY JDL | PLANS CK'D. DFD

DETAILS

SHEET 4

694

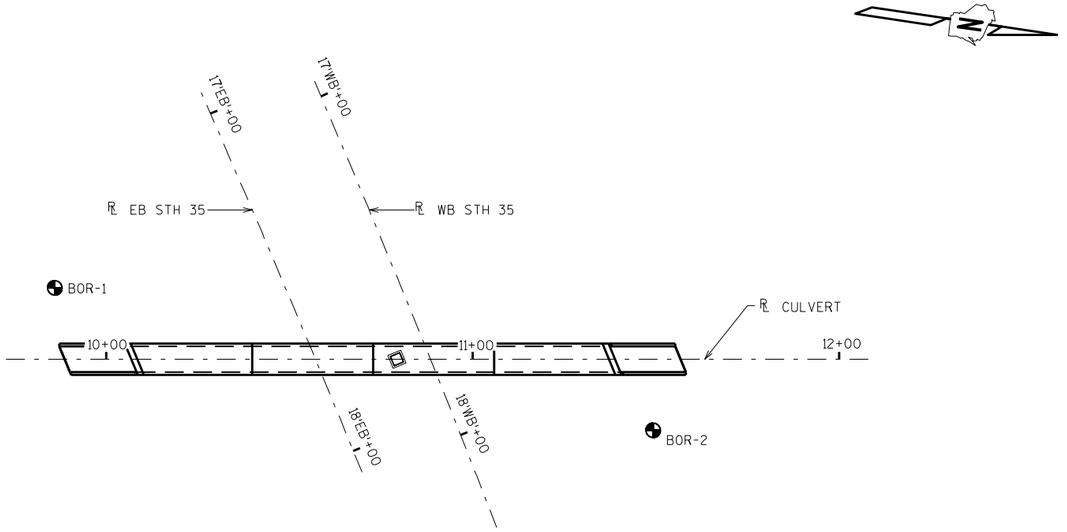
SCALE =

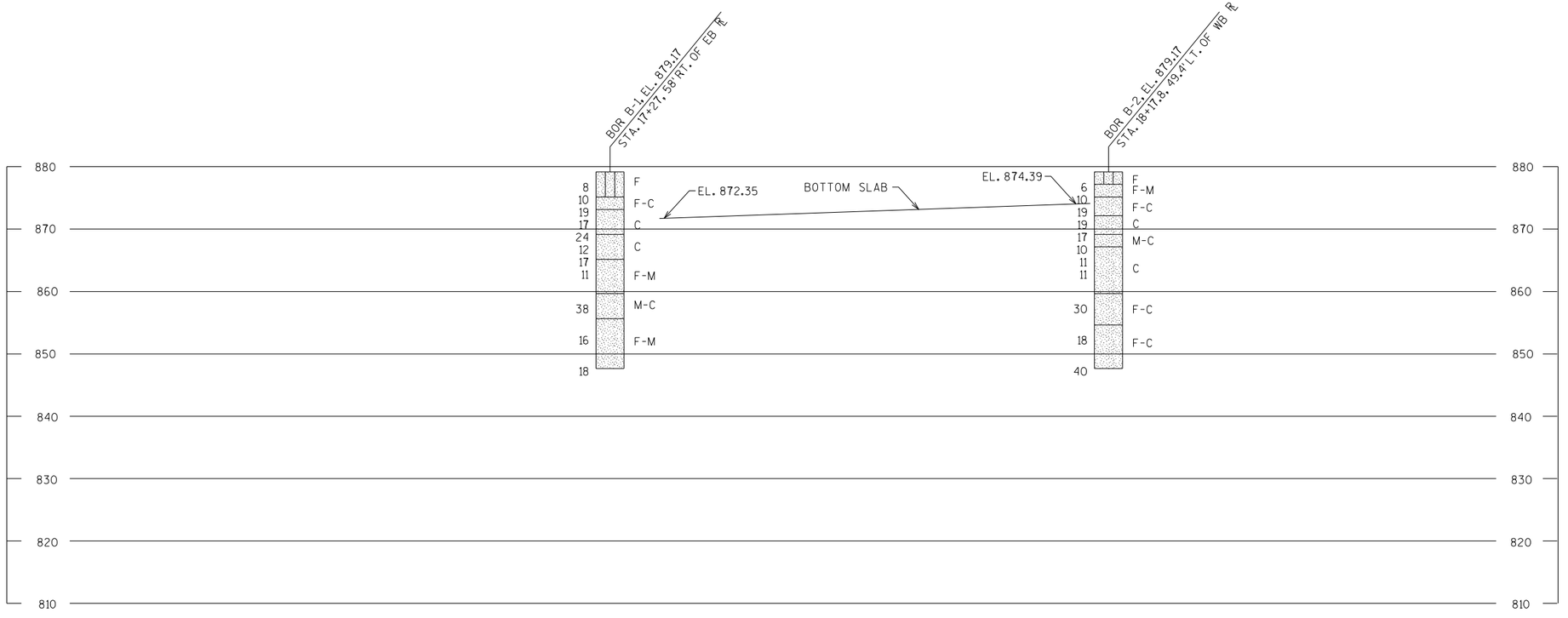
8

8

STILLWATER - SOMERSET

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	11/15/2013	372554.9657	503330.4062
2	11/15/2013	372717.2144	503335.1072
BORINGS COMPLETED BY: AMERICAN ENGINEERING TESTING			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) ST CROIX COUNTY			





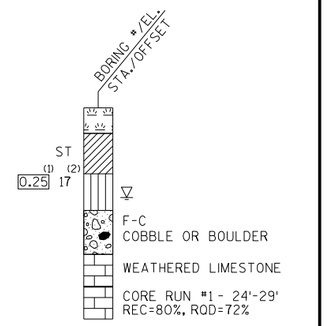
STATE PROJECT NUMBER

8110-02-72

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-55-36

DRAWN BY PR/JDL | PLANS CK'D. DFD

SUBSURFACE EXPLORATION

SHEET 5

695

8

8

SCALE =

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
01+19.45	0.00	6.98	4.68	-	-	-	-	-	-	-	-	0.00
01+50	30.55	7.05	4.50	-	8	5	-	8	6	-	-	1.45
02+00	50.00	6.13	15.57	-	12	19	-	20	30	-	-	-9.58
02+50	50.00	7.07	11.70	-	12	25	-	32	61	-	-	-28.93
03+00	50.00	6.90	63.35	-	13	69	-	45	148	-	-	-102.86
03+50	50.00	6.75	83.31	-	13	136	-	58	318	-	-	-259.97
04+00	50.00	6.82	91.06	-	13	161	-	70	520	-	-	-449.23
04+50	50.00	7.12	81.44	-	13	160	-	83	719	-	-	-635.98
05+00	50.00	7.35	76.63	-	13	146	-	97	902	-	-	-805.54
05+50	50.00	3.98	44.77	-	10	112	-	107	1,043	-	-	-935.57
06+00	50.00	0.12	30.91	-	4	70	-	111	1,130	-	-	-1,019.36
06+50	50.00	-	24.44	-	0	51	-	111	1,194	-	-	-1,083.31
07+00	50.00	-	30.42	-	-	51	-	111	1,258	-	-	-1,146.80
07+50	50.00	-	40.75	-	-	66	-	111	1,340	-	-	-1,229.17
08+00	50.00	-	53.75	-	-	88	-	111	1,450	-	-	-1,338.55
08+25	25.00	-	59.72	-	-	53	-	111	1,515	-	-	-1,404.21
08+50	25.00	-	62.50	-	-	57	-	111	1,586	-	-	-1,474.94
08+75	25.00	-	64.94	-	-	59	-	111	1,660	-	-	-1,548.69
09+00	25.00	-	68.18	-	-	62	-	111	1,737	-	-	-1,625.73
09+25	25.00	-	70.06	-	-	64	-	111	1,817	-	-	-1,705.73
09+50	25.00	-	72.18	-	-	66	-	111	1,899	-	-	-1,788.04
09+75	25.00	-	70.62	-	-	66	-	111	1,982	-	-	-1,870.69
10+00	25.00	-	62.67	-	-	62	-	111	2,059	-	-	-1,947.82
10+25	25.00	-	49.99	-	-	52	-	111	2,124	-	-	-2,013.02
10+50	25.00	-	47.33	-	-	45	-	111	2,181	-	-	-2,069.33
10+75	25.00	1.78	42.58	-	1	42	-	112	2,233	-	-	-2,120.54
11+00	25.00	63.56	38.68	-	30	38	-	142	2,280	-	-	-2,137.32
11+50	50.00	104.55	26.55	-	156	60	-	298	2,355	-	-	-2,057.18
12+00	50.00	145.88	14.18	-	232	38	-	530	2,402	-	-	-1,872.45
12+25	25.00	153.87	13.61	-	139	13	-	669	2,418	-	-	-1,749.76
12+50	25.00	159.20	12.35	-	145	12	-	813	2,433	-	-	-1,619.84
12+75	25.00	160.45	13.13	-	148	12	-	961	2,448	-	-	-1,486.60
13+00	25.00	163.64	16.58	-	150	14	-	1,112	2,465	-	-	-1,353.76
13+25	25.00	153.90	17.50	-	147	16	-	1,259	2,485	-	-	-1,226.48
13+50	25.00	78.93	15.62	-	108	15	-	1,366	2,504	-	-	-1,137.85
13+75	25.00	0.60	17.58	-	37	15	-	1,403	2,523	-	-	-1,120.24
14+00	25.00	8.27	17.51	-	4	16	-	1,407	2,544	-	-	-1,136.43
14+25	25.00	15.91	24.42	-	11	19	-	1,418	2,568	-	-	-1,149.50
14+50	25.00	-	48.79	-	7	34	-	1,426	2,610	-	-	-1,184.50
15+00	50.00	-	50.45	-	-	92	-	1,426	2,725	-	-	-1,299.36

Sheet 1 Total	1,426	2,180	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
15+50	50.00	-	42.35	-	-	86	-	1,426	2,833	-	-	-1,406.76
15+75	25.00	16.08	25.78	-	7	32	-	1,433	2,872	-	-	-1,438.74
16+00	25.00	-	27.54	-	7	25	-	1,441	2,903	-	-	-1,462.15
16+25	25.00	-	20.42	-	-	22	-	1,441	2,931	-	-	-1,489.91
16+50	25.00	-	12.98	-	-	15	-	1,441	2,950	-	-	-1,509.24
17+00	50.00	2.26	1.61	-	2	14	-	1,443	2,967	-	-	-1,524.03
17+25	25.00	4.63	-	-	3	1	-	1,446	2,968	-	-	-1,521.77
17+50	25.00	3.34	-	-	4	-	-	1,450	2,968	-	-	-1,518.08
17+75	25.00	0.89	7.07	-	2	3	-	1,452	2,972	-	-	-1,520.21
18+00	25.00	5.06	1.39	-	3	4	-	1,454	2,977	-	-	-1,522.36
18+50	50.00	36.12	-	-	38	1	-	1,493	2,978	-	-	-1,485.83
18+75	25.00	19.40	2.73	-	26	1	-	1,518	2,980	-	-	-1,461.71
19+00	25.00	8.90	19.66	-	13	10	-	1,531	2,993	-	-	-1,461.56
19+25	25.00	5.44	-	-	7	9	-	1,538	3,004	-	-	-1,466.30
19+44.13	19.13	-	-	-	2	-	-	1,540	3,004	-	-	-1,464.37

Sheet 2 Total	114	223	-
Total	1,540	2,403	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
19+00	0.00	-	384.13	-	-	-	-	-	-	-	-	0.00
19+50	50.00	-	302.22	-	-	636	-	-	794	-	-	-794.38
20+00	50.00	-	336.58	-	-	591	-	-	1,534	-	-	-1,533.73
20+31.39	31.39	-	293.32	-	-	366	-	-	1,991	-	-	-1,991.39
20+50	18.61	-	307.78	-	-	207	-	-	2,250	-	-	-2,250.38
20+65.61	15.61	-	327.57	-	-	184	-	-	2,480	-	-	-2,480.02
21+00	34.39	382.98	17.13	-	244	219	-	244	2,754	-	-	-2,510.51
21+50	50.00	362.16	12.09	-	690	27	-	934	2,788	-	-	-1,854.38
22+00	50.00	265.40	10.81	-	581	21	-	1,515	2,815	-	-	-1,299.80
22+50	50.00	184.88	9.95	-	417	19	-	1,932	2,839	-	-	-906.90
22+75	25.00	152.72	10.13	-	156	9	-	2,088	2,850	-	-	-762.22
23+00	25.00	127.51	10.21	-	130	9	-	2,218	2,862	-	-	-644.26
23+50	50.00	97.66	14.50	-	208	23	-	2,426	2,891	-	-	-464.37
24+00	50.00	95.40	26.65	-	179	38	-	2,605	2,938	-	-	-333.24
24+50	50.00	98.95	39.28	-	180	61	-	2,785	3,015	-	-	-229.58
25+00	50.00	123.47	56.32	-	206	89	-	2,991	3,125	-	-	-134.27
25+50	50.00	165.00	56.06	-	267	104	-	3,258	3,255	-	-	2.77
26+00	50.00	214.93	49.79	-	352	98	-	3,610	3,378	-	-	232.04
26+50	50.00	199.03	52.63	-	383	95	-	3,993	3,496	-	-	496.79
27+00	50.00	123.13	67.46	-	298	111	-	4,291	3,635	-	-	656.09
27+09.46	9.46	102.52	70.45	-	40	24	-	4,331	3,666	-	-	665.43
27+25.53	16.06	3.35	90.88	-	31	48	-	4,363	3,726	-	-	636.93
27+50	24.47	-	152.11	-	2	110	-	4,364	3,863	-	-	500.80
27+80.16	30.16	54.28	124.08	-	30	154	-	4,394	4,056	-	-	338.30
28+00	19.84	77.35	175.59	-	48	110	-	4,443	4,194	-	-	249.04
28+50	50.00	82.77	245.00	-	148	389	-	4,591	4,680	-	-	-89.49
28+59.16	9.16	80.52	257.80	-	28	85	-	4,619	4,787	-	-	-168.43
28+75.4	16.23	75.10	281.05	-	47	162	-	4,665	4,990	-	-	-324.14
31+92.65	0.00	-	52.16	-	-	-	-	4,665	4,990	-	-	-324.14
32+00	7.35	2.73	71.24	-	0	17	-	4,666	5,011	-	-	-344.76
32+08.28	8.28	89.32	68.99	-	14	21	-	4,680	5,037	-	-	-357.51
32+50	41.72	109.46	55.57	-	154	96	-	4,834	5,158	-	-	-324.22
33+00	50.00	111.04	55.30	-	204	103	-	5,038	5,286	-	-	-248.38
33+50	50.00	85.60	48.47	-	182	96	-	5,220	5,406	-	-	-186.41
34+00	50.00	-	1,674.70	-	79	1,596	-	5,299	7,401	-	-	-2,101.55
34+24.32	24.32	-	2,754.61	-	-	1,995	-	5,299	9,894	-	-	-4,594.72
36+56.83	0.00	-	3,012.05	-	-	-	-	5,299	9,894	-	-	-4,594.72
37+00	43.17	174.67	99.97	-	140	2,488	-	5,439	13,004	-	-	-7,564.94
37+20	20.00	7.53	317.53	-	67	155	-	5,506	13,197	-	-	-7,690.75
40+12.27	0.00	175.84	199.48	-	-	-	-	5,506	13,197	-	-	-7,690.75

Sheet 1 Total	5,506	10,558	-

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 1S – STH 35/CTH E	SHEET:	E

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
40+50	37.73	329.75	173.21	-	353	260	-	5,859	13,522	-	-	-7,663.00
40+70.98	20.98	327.73	160.82	-	255	130	-	6,115	13,685	-	-	-7,569.77
40+98	27.02	210.83	109.47	-	269	135	-	6,384	13,854	-	-	-7,469.35
41+00	2.00	210.24	109.20	-	16	8	-	6,400	13,864	-	-	-7,463.88
41+43	43.00	346.47	95.73	-	443	163	-	6,843	14,068	-	-	-7,224.56
41+50	7.00	338.94	94.20	-	89	25	-	6,932	14,099	-	-	-7,166.48
41+87	37.00	129.45	85.72	-	321	123	-	7,253	14,253	-	-	-6,999.65
42+00	13.00	75.50	86.61	-	49	41	-	7,302	14,305	-	-	-7,002.17
42+32	32.00	0.90	121.27	-	45	123	-	7,348	14,459	-	-	-7,110.88
42+40.58	8.58	0.14	143.88	-	0	42	-	7,348	14,511	-	-	-7,163.37
42+50	9.42	2.61	166.30	-	0	54	-	7,348	14,579	-	-	-7,230.54
42+67	17.00	3.62	193.61	-	2	113	-	7,350	14,720	-	-	-7,370.21
43+00	33.00	1.79	223.05	-	3	255	-	7,354	15,039	-	-	-7,685.19
43+50	50.00	2.03	245.07	-	4	433	-	7,357	15,581	-	-	-8,223.46
44+00	50.00	2.06	258.10	-	4	466	-	7,361	16,163	-	-	-8,802.04
44+50	50.00	3.64	242.43	-	5	463	-	7,366	16,742	-	-	-9,376.08
45+00(1)	50.00	4.78	226.53	-	8	434	-	7,374	17,285	-	-	-9,911.05
45+15.68(2)	15.22	5.04	228.49	-	3	128	-	7,377	17,445	-	-	-10,068.64
45+49.01(2)	33.33	5.18	247.97	-	6	294	-	7,383	17,813	-	-	-10,429.90
46+00(4)	48.54	5.79	228.31	-	10	428	-	7,393	18,348	-	-	-10,955.19
46+50(5)	48.53	-	573.87	-	5	721	-	7,398	19,249	-	-	-11,851.16
47+00(6)	48.53	-	427.37	-	-	900	-	7,398	20,374	-	-	-12,975.82
47+48.52(6)	48.52	-	348.09	-	-	697	-	7,398	21,245	-	-	-13,846.80
47+63.59(7)	13.59	-	343.91	-	-	174	-	7,398	21,463	-	-	-14,064.42
47+89.95(8)	25.95	-	335.75	-	-	327	-	7,398	21,871	-	-	-14,472.71
48+00(9)	9.22	-	330.00	-	-	114	-	7,398	22,013	-	-	-14,614.80

Sheet 2 Total	1,892	7,053	-
Total	7,398	17,610	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
05+00	0.00	2.57	293.43	-	-	-	-	-	-	-	-	0.00
05+10	10.00	4.04	348.14	-	1	119	-	1	149	-	-	-147.29
05+20	10.00	14.16	346.22	-	3	129	-	5	309	-	-	-304.65
05+30	10.00	22.30	506.56	-	7	158	-	11	507	-	-	-495.30
05+40	10.00	30.60	380.17	-	10	164	-	21	712	-	-	-690.76
05+50	10.00	5.67	265.40	-	7	120	-	28	861	-	-	-833.48
05+60	10.00	0.68	268.67	-	1	99	-	29	985	-	-	-955.93
05+70	10.00	-	323.16	-	0	110	-	29	1,122	-	-	-1,092.81
05+80	10.00	0.11	450.47	-	0	143	-	29	1,301	-	-	-1,271.87
05+90	10.00	0.13	442.84	-	0	165	-	29	1,508	-	-	-1,478.61
06+00	10.00	0.11	358.26	-	0	148	-	29	1,693	-	-	-1,664.00
06+10	10.00	-	269.85	-	0	116	-	29	1,839	-	-	-1,809.38
06+20	10.00	0.30	394.76	-	0	123	-	29	1,993	-	-	-1,963.17
06+30	10.00	-	355.21	-	0	139	-	29	2,166	-	-	-2,136.72
06+40	10.00	5.36	380.85	-	1	136	-	30	2,337	-	-	-2,306.11
06+50	10.00	74.05	339.51	-	15	133	-	45	2,503	-	-	-2,458.15
06+52.07	2.07	69.05	330.96	-	5	26	-	51	2,535	-	-	-2,484.79
06+60	7.93	35.31	310.42	-	15	94	-	66	2,653	-	-	-2,587.21
06+70	10.00	8.91	310.61	-	8	115	-	74	2,797	-	-	-2,722.77
06+80	10.00	24.26	307.01	-	6	114	-	80	2,940	-	-	-2,859.60
06+90	10.00	-	303.96	-	4	113	-	85	3,081	-	-	-2,996.54
07+00	10.00	14.48	313.28	-	3	114	-	87	3,224	-	-	-3,136.73
07+10	10.00	12.19	312.64	-	5	116	-	92	3,369	-	-	-3,276.68
07+20	10.00	32.44	312.36	-	8	116	-	101	3,514	-	-	-3,413.09
07+30	10.00	39.07	312.97	-	13	116	-	114	3,658	-	-	-3,544.60
07+40	10.00	0.33	316.05	-	7	116	-	121	3,804	-	-	-3,682.92
07+50	10.00	0.93	321.17	-	0	118	-	121	3,952	-	-	-3,830.19
07+60	10.00	0.22	330.85	-	0	121	-	122	4,103	-	-	-3,980.90
07+70	10.00	-	343.07	-	0	125	-	122	4,259	-	-	-4,136.86
07+80	10.00	-	330.56	-	-	125	-	122	4,414	-	-	-4,292.80
07+90	10.00	-	415.65	-	-	138	-	122	4,587	-	-	-4,465.53
08+00	10.00	-	307.29	-	-	134	-	122	4,755	-	-	-4,632.88
08+10	10.00	0.13	272.70	-	0	107	-	122	4,889	-	-	-4,767.11
08+20	10.00	3.79	273.18	-	1	101	-	122	5,015	-	-	-4,892.75
08+30	10.00	25.60	271.12	-	5	101	-	128	5,141	-	-	-5,013.30
08+40	10.00	64.68	268.82	-	17	100	-	145	5,266	-	-	-5,121.57
08+43.95	3.95	49.94	268.48	-	8	39	-	153	5,315	-	-	-5,162.32
08+50	6.05	28.50	268.08	-	9	60	-	162	5,390	-	-	-5,228.67
08+60	10.00	18.55	267.21	-	9	99	-	170	5,514	-	-	-5,343.86
08+70	10.00	24.49	265.65	-	8	99	-	178	5,638	-	-	-5,459.24

Sheet 1 Total	178	4,510	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
08+80	10.00	27.23	280.91	-	10	101	-	188	5,764	-	-	-5,576.18
08+90	10.00	23.95	263.75	-	9	101	-	197	5,890	-	-	-5,692.78
09+00	10.00	6.44	263.91	-	6	98	-	203	6,012	-	-	-5,809.30
09+10	10.00	3.04	279.34	-	2	101	-	205	6,138	-	-	-5,933.30

Sheet 2 Total	26	400	-
Total	205	4,911	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
05+00	0.00	43.68	231.37	-	-	-	-	-	-	-	-	0.00
05+10	10.00	31.96	231.72	-	14	86	-	14	107	-	-	-93.19
05+20	10.00	7.54	233.57	-	7	86	-	21	215	-	-	-193.58
05+30	10.00	56.53	238.51	-	12	87	-	33	324	-	-	-290.99
05+40	10.00	106.55	237.90	-	30	88	-	63	434	-	-	-371.07
05+50	10.00	177.59	238.67	-	53	88	-	116	545	-	-	-428.77
05+60	10.00	191.46	242.14	-	68	89	-	184	656	-	-	-471.73
05+70	10.00	165.47	243.75	-	66	90	-	250	769	-	-	-518.11
05+80	10.00	92.15	245.71	-	48	91	-	298	882	-	-	-583.70
05+90	10.00	40.81	248.97	-	25	92	-	323	996	-	-	-673.59
06+00	10.00	25.92	241.11	-	12	91	-	335	1,110	-	-	-774.67
06+10	10.00	0.24	265.56	-	5	94	-	340	1,227	-	-	-887.11
06+20	10.00	-	334.22	-	0	111	-	340	1,366	-	-	-1,025.91
06+30	10.00	0.87	262.50	-	0	111	-	340	1,504	-	-	-1,163.87
06+40	10.00	-	263.45	-	0	97	-	340	1,626	-	-	-1,285.46
06+50	10.00	0.44	301.40	-	0	105	-	340	1,757	-	-	-1,416.13
06+60	10.00	2.15	286.66	-	0	109	-	341	1,893	-	-	-1,551.78
06+70	10.00	7.42	282.55	-	2	105	-	343	2,024	-	-	-1,681.77
06+80	10.00	4.72	281.09	-	2	104	-	345	2,155	-	-	-1,809.99
06+90	10.00	1.99	285.89	-	1	105	-	346	2,286	-	-	-1,939.99
07+00	10.00	-	285.53	-	0	106	-	347	2,418	-	-	-2,071.89
07+10	10.00	0.18	259.43	-	0	101	-	347	2,545	-	-	-2,198.01
07+20	10.00	-	258.88	-	0	96	-	347	2,665	-	-	-2,317.95
07+30	10.00	10.44	235.26	-	2	92	-	349	2,779	-	-	-2,430.40
07+40	10.00	6.00	248.10	-	3	90	-	352	2,891	-	-	-2,539.25
07+50	10.00	1.17	275.15	-	1	97	-	353	3,012	-	-	-2,659.05
07+60	10.00	7.52	283.91	-	2	104	-	355	3,141	-	-	-2,786.85
07+70	10.00	6.19	286.49	-	3	106	-	357	3,273	-	-	-2,916.34
07+80	10.00	119.92	283.47	-	23	106	-	380	3,405	-	-	-3,024.93
07+90	10.00	12.96	345.23	-	25	116	-	405	3,551	-	-	-3,145.85
08+00	10.00	-	343.52	-	2	128	-	407	3,710	-	-	-3,302.89
08+10	10.00	-	361.63	-	-	131	-	407	3,874	-	-	-3,466.11
08+20	10.00	-	419.24	-	-	145	-	407	4,054	-	-	-3,646.87
08+30	10.00	-	409.17	-	-	153	-	407	4,246	-	-	-3,838.63
08+40	10.00	-	251.11	-	-	122	-	407	4,399	-	-	-3,991.48
08+50	10.00	1.22	227.36	-	0	89	-	408	4,510	-	-	-4,102.01
08+60	10.00	2.96	232.38	-	1	85	-	408	4,616	-	-	-4,207.65
08+70	10.00	17.27	232.92	-	4	86	-	412	4,724	-	-	-4,311.62
08+80	10.00	2.79	278.57	-	4	95	-	416	4,842	-	-	-4,426.30
08+90	10.00	1.65	412.05	-	1	128	-	417	5,002	-	-	-4,585.34

Sheet 1 Total	417	4,002	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
09+00	10.00	0.29	294.05	-	0	131	-	417	5,165	-	-	-4,748.43
09+10	10.00	28.99	232.10	-	5	97	-	422	5,287	-	-	-4,864.80

Sheet 2 Total	6	228	-

Total	422	4,230	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
201+21.32	0.00	9.04	-	-	-	-	-	-	-	-	-	0.00
201+50	28.68	107.50	-	-	62	-	-	62	-	-	-	61.89
202+00	50.00	1,208.11	-	-	1,218	-	-	1,280	-	-	-	1,280.04
202+48.55	48.56	1,431.78	-	-	2,374	-	-	3,654	-	-	-	3,653.79
202+97.09	48.54	1,621.40	-	-	2,744	-	-	6,398	-	-	-	6,398.07
203+45.63	48.54	1,823.40	-	-	3,096	-	-	9,494	-	-	-	9,494.34
203+94.16	48.54	1,930.42	-	-	3,374	-	-	12,868	-	-	-	12,868.36
204+42.7	48.54	2,033.73	-	-	3,563	-	-	16,431	-	-	-	16,431.44
204+91.24	48.54	2,105.36	-	-	3,720	-	-	20,152	-	-	-	20,151.77
205+39.77	48.54	2,183.79	-	-	3,855	-	-	24,007	-	-	-	24,006.96
205+88.31	48.54	2,258.99	-	-	3,993	-	-	28,000	-	-	-	28,000.25
206+36.85	48.54	2,305.53	-	-	4,103	-	-	32,103	-	-	-	32,102.97
206+85.38	48.54	2,323.09	-	-	4,160	-	-	36,263	-	-	-	36,263.29
207+33.92	48.54	2,289.06	-	-	4,146	-	-	40,409	-	-	-	40,408.81
207+82.46	48.54	2,196.99	-	-	4,032	-	-	44,441	-	-	-	44,440.99
208+30.99	48.54	2,094.27	-	-	3,857	-	-	48,298	-	-	-	48,298.08
208+79.53	48.54	2,146.74	-	-	3,812	-	-	52,110	-	-	-	52,110.01
209+28.07	48.54	1,923.16	-	-	3,658	-	-	55,768	-	-	-	55,768.14
209+76.6	48.54	1,877.03	-	-	3,416	-	-	59,184	-	-	-	59,183.86
210+25.14	48.54	1,850.18	-	-	3,350	-	-	62,534	-	-	-	62,533.98
210+73.68	48.54	1,678.35	-	-	3,172	-	-	65,706	-	-	-	65,705.51
211+22.21	48.54	1,514.45	-	-	2,870	-	-	68,575	-	-	-	68,575.27
211+70.75	48.54	1,225.64	-	-	2,463	-	-	71,038	-	-	-	71,038.12
212+19.29	48.54	788.52	-	-	1,810	-	-	72,848	-	-	-	72,848.50
212+67.82	48.54	574.06	-	-	1,225	-	-	74,073	-	-	-	74,073.23
213+16.36	48.54	417.61	-	-	891	-	-	74,965	-	-	-	74,964.57
213+64.9	48.54	281.84	-	-	629	-	-	75,593	-	-	-	75,593.25
214+13.43	48.54	195.78	1.03	-	429	1	-	76,023	1	-	-	76,021.39

Total	76,023	1	-

9

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 1S – GLEN POND	SHEET:	E

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
200+00	0.00	4.38	32.94	-	-	-	-	-	-	-	-	0.00
200+20	20.00	364.22	2.64	-	137	13	-	137	16	-	-	120.05
200+50	30.00	214.16	2.99	-	321	3	-	458	20	-	-	437.47
201+00	50.00	246.28	4.69	-	426	7	-	884	29	-	-	854.91
201+10	10.00	253.86	5.11	-	93	2	-	977	32	-	-	945.26
201+50	40.00	231.61	7.50	-	360	9	-	1,336	43	-	-	1,293.19
202+00	50.00	970.21	6.02	-	1,113	13	-	2,449	59	-	-	2,390.35
202+00.66	0.66	303.95	6.17	-	16	0	-	2,465	59	-	-	2,405.81
202+50	49.34	368.28	12.83	-	614	17	-	3,079	81	-	-	2,998.29
202+90	40.00	402.03	16.32	-	571	22	-	3,650	108	-	-	3,541.90
203+00	10.00	408.86	16.42	-	150	6	-	3,800	115	-	-	3,684.49
203+50	50.00	436.42	14.92	-	783	29	-	4,582	152	-	-	4,430.88
204+00	50.00	482.06	8.45	-	850	22	-	5,433	179	-	-	5,254.28
204+50	50.00	539.27	3.54	-	946	11	-	6,379	192	-	-	6,186.09
205+00	50.00	541.09	1.50	-	1,000	5	-	7,379	198	-	-	7,180.60
205+50	50.00	529.95	0.82	-	992	2	-	8,371	201	-	-	8,169.62
206+00	50.00	441.74	3.57	-	900	4	-	9,270	206	-	-	9,064.25
206+50	50.00	276.50	2.14	-	665	5	-	9,935	213	-	-	9,722.68
207+00	50.00	256.60	5.32	-	494	7	-	10,429	221	-	-	10,207.67
207+50	50.00	206.06	13.16	-	428	17	-	10,857	243	-	-	10,614.67
208+00	50.00	269.61	61.87	-	440	69	-	11,298	330	-	-	10,968.27
208+50	50.00	155.79	190.32	-	394	234	-	11,692	621	-	-	11,070.27
209+00	50.00	151.55	289.38	-	285	444	-	11,976	1,177	-	-	10,799.65
209+50	50.00	137.13	257.27	-	267	506	-	12,244	1,809	-	-	10,434.26
210+00	50.00	364.02	29.76	-	464	266	-	12,708	2,142	-	-	10,566.08
210+50	50.00	550.18	18.30	-	846	44	-	13,554	2,197	-	-	11,356.95
211+00	50.00	708.72	-	-	1,166	17	-	14,720	2,218	-	-	12,501.43
211+50	50.00	605.54	3.54	-	1,217	3	-	15,937	2,222	-	-	13,714.23
212+00	50.00	452.36	18.58	-	980	20	-	16,916	2,248	-	-	14,668.16
212+50	50.00	262.78	49.26	-	662	63	-	17,578	2,327	-	-	15,251.82
213+00	50.00	96.34	176.57	-	333	209	-	17,911	2,588	-	-	15,322.97
213+50	50.00	30.55	471.17	-	117	600	-	18,028	3,338	-	-	14,690.77
214+00	50.00	0.29	707.70	-	29	1,092	-	18,057	4,702	-	-	13,354.90
214+50	50.00	-	915.03	-	0	1,503	-	18,057	6,580	-	-	11,477.01
215+00	50.00	31.28	1,035.30	-	29	1,806	-	18,086	8,838	-	-	9,248.65
215+50	50.00	45.21	1,121.48	-	71	1,997	-	18,157	11,334	-	-	6,823.19
216+00	50.00	47.54	1,061.61	-	86	2,021	-	18,243	13,861	-	-	4,382.34
216+50	50.00	30.33	1,025.21	-	72	1,932	-	18,315	16,276	-	-	2,039.13
217+00	50.00	17.47	1,065.79	-	44	1,936	-	18,359	18,696	-	-	-336.75
217+50	50.00	19.26	1,207.85	-	34	2,105	-	18,393	21,327	-	-	-2,934.27

Sheet 1 Total	18,393	17,062	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
218+00	50.00	34.44	1,315.71	-	50	2,337	-	18,443	24,248	-	-	-5,805.33
218+50	50.00	33.03	1,373.71	-	62	2,490	-	18,505	27,361	-	-	-8,855.60
219+00	50.00	36.61	1,416.28	-	64	2,583	-	18,570	30,590	-	-	-12,020.27
219+50	50.00	44.17	1,495.19	-	75	2,696	-	18,645	33,960	-	-	-15,315.24
219+54.53	4.53	43.77	1,505.59	-	7	252	-	18,652	34,275	-	-	-15,622.73
220+00	45.47	39.88	1,692.94	-	70	2,693	-	18,723	37,641	-	-	-18,918.67
220+50	50.00	25.91	1,942.34	-	61	3,366	-	18,783	41,849	-	-	-23,065.25
221+00	50.00	34.76	1,963.24	-	56	3,616	-	18,840	46,369	-	-	-27,529.43
221+50	50.00	154.24	1,406.75	-	175	3,120	-	19,015	50,269	-	-	-31,254.89
222+00	50.00	521.34	375.88	-	626	1,651	-	19,640	52,333	-	-	-32,692.59
222+50	50.00	701.65	43.28	-	1,132	388	-	20,773	52,818	-	-	-32,045.33
223+00	50.00	432.52	35.79	-	1,050	73	-	21,823	52,909	-	-	-31,086.70
223+50	50.00	167.61	395.37	-	556	399	-	22,378	53,408	-	-	-31,030.05
224+00	50.00	92.12	862.91	-	240	1,165	-	22,619	54,865	-	-	-32,245.89
224+50	50.00	94.92	1,053.26	-	173	1,774	-	22,792	57,083	-	-	-34,290.50
225+00	50.00	113.87	1,089.34	-	193	1,984	-	22,985	59,562	-	-	-36,577.04
225+50	50.00	100.81	1,084.42	-	199	2,013	-	23,184	62,078	-	-	-38,894.19
226+00	50.00	109.19	800.29	-	194	1,745	-	23,379	64,260	-	-	-40,881.13
226+50	50.00	184.53	411.89	-	272	1,122	-	23,651	65,663	-	-	-42,012.16

Sheet 2 Total	5,257	35,468	-
Total	23,651	52,530	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
297+60	0.00	155.97	10.97	-	-	-	-	-	-	-	-	0.00
298+00	40.00	159.35	12.72	-	234	18	-	234	22	-	-	211.63
298+47.58	47.58	158.50	10.26	-	280	20	-	514	47	-	-	466.38
298+50	2.42	161.31	9.96	-	14	1	-	528	48	-	-	479.58
299+00	50.00	162.79	5.50	-	300	14	-	828	66	-	-	761.77
299+35.41	35.41	158.53	5.03	-	211	7	-	1,039	75	-	-	963.81
299+50	14.59	150.48	4.11	-	84	2	-	1,122	78	-	-	1,044.24
300+00	50.00	166.54	2.05	-	294	6	-	1,416	85	-	-	1,330.64
300+23.23	23.23	174.97	2.28	-	147	2	-	1,563	87	-	-	1,475.23
300+50	26.77	177.46	3.74	-	175	3	-	1,737	91	-	-	1,646.21
301+00	50.00	182.17	9.22	-	333	12	-	2,070	106	-	-	1,964.20
301+50	50.00	181.47	16.35	-	337	24	-	2,407	136	-	-	2,271.32
302+00	50.00	172.75	23.70	-	328	37	-	2,735	182	-	-	2,552.96
302+43.17	43.17	163.61	26.48	-	269	40	-	3,004	232	-	-	2,771.74
302+50	6.83	161.29	26.02	-	41	7	-	3,045	241	-	-	2,804.52
303+00	50.00	147.70	27.19	-	286	49	-	3,331	302	-	-	3,029.04
303+33.7	33.70	140.45	35.80	-	180	39	-	3,511	351	-	-	3,159.71
303+50	16.30	135.99	44.30	-	83	24	-	3,594	381	-	-	3,212.95
304+00	50.00	120.01	73.44	-	237	109	-	3,831	518	-	-	3,313.72
304+24.22	24.22	106.58	95.62	-	102	76	-	3,933	613	-	-	3,320.57
304+32.56	8.34	105.76	103.91	-	33	31	-	3,966	651	-	-	3,314.85
304+50	17.44	105.56	121.62	-	68	73	-	4,034	742	-	-	3,292.05
305+00	50.00	20.70	254.22	-	117	348	-	4,151	1,177	-	-	2,973.95
305+50	50.00	16.88	331.22	-	35	542	-	4,186	1,855	-	-	2,331.16
305+50.3	0.30	16.86	331.72	-	0	4	-	4,186	1,859	-	-	2,326.70
305+78.34	28.04	14.15	373.59	-	16	366	-	4,202	2,317	-	-	1,884.98
306+00	21.66	11.08	422.69	-	10	319	-	4,212	2,716	-	-	1,495.93
306+06.39	6.39	10.26	424.06	-	3	100	-	4,215	2,842	-	-	1,373.29
306+50	43.61	5.39	532.17	-	13	772	-	4,227	3,807	-	-	420.52
307+00	50.00	0.55	755.19	-	6	1,192	-	4,233	5,297	-	-	-1,063.98
307+06.36	6.36	-	780.22	-	0	181	-	4,233	5,523	-	-	-1,289.88
307+43.27	36.91	-	910.40	-	-	1,156	-	4,233	6,967	-	-	-2,734.28
307+76.66	33.39	-	514.67	-	-	881	-	4,233	8,069	-	-	-3,835.85
309+80.02	0.00	3.36	193.31	-	-	-	-	4,233	8,069	-	-	-3,835.85
310+00	19.98	3.07	729.14	-	2	341	-	4,235	8,496	-	-	-4,260.17
310+50	50.00	1.62	429.64	-	4	1,073	-	4,240	9,837	-	-	-5,597.00
311+00	50.00	0.40	311.61	-	2	686	-	4,242	10,695	-	-	-6,453.06
311+50	50.00	3.57	191.55	-	4	466	-	4,245	11,277	-	-	-7,031.74
311+60	10.00	9.04	178.90	-	2	69	-	4,248	11,363	-	-	-7,115.16
311+76.64	16.64	18.99	158.14	-	9	104	-	4,256	11,493	-	-	-7,236.33

Sheet 1 Total	4,256	9,194	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
312+00	23.36	36.31	124.00	-	24	122	-	4,280	11,645	-	-	-7,364.98
312+50	50.00	73.04	-	-	101	115	-	4,381	11,789	-	-	-7,407.25
313+00	50.00	66.84	-	-	130	-	-	4,511	11,789	-	-	-7,277.73
313+50	50.00	126.84	1.28	-	179	1	-	4,690	11,790	-	-	-7,099.88
313+50.8	0.80	125.76	1.27	-	4	0	-	4,694	11,790	-	-	-7,096.19
313+84.08	33.28	120.18	0.37	-	152	1	-	4,846	11,791	-	-	-6,945.87
313+84.11	0.03	120.19	0.37	-	0	0	-	4,846	11,791	-	-	-6,945.75
314+00	15.89	117.99	0.57	-	70	0	-	4,916	11,792	-	-	-6,876.00
314+24.8	24.80	112.91	1.20	-	106	1	-	5,022	11,793	-	-	-6,770.97
314+50	25.20	109.26	1.12	-	104	1	-	5,126	11,794	-	-	-6,668.64
314+65.49	15.49	112.81	0.61	-	64	0	-	5,189	11,795	-	-	-6,605.55
314+84.99	19.50	113.28	0.50	-	82	0	-	5,271	11,795	-	-	-6,524.41

Sheet 2 Total	1,015	242	-
Total	5,271	9,436	-

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 2S – STH 35 NB	SHEET:	E

PLOT DATE: 8/5/2014 8:23:17 AM PLOT BY: DOTERA PLOT NAME: EW DETAILS PLOT SCALE: NONE

FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\8110-02-72_ew.PPTX

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
05+05	0.00	-	824.71	-	-	-	-	-	-	-	-	0.00
05+10	5.00	-	819.84	-	-	152	-	-	190	-	-	-190.34
05+15	5.00	-	813.11	-	-	151	-	-	379	-	-	-379.34
05+20	5.00	-	804.55	-	-	150	-	-	567	-	-	-566.57
05+25	5.00	-	794.42	-	-	148	-	-	752	-	-	-751.64
05+30	5.00	-	783.50	-	-	146	-	-	934	-	-	-934.26
05+35	5.00	-	771.97	-	-	144	-	-	1,114	-	-	-1,114.30
05+40	5.00	-	758.90	-	-	142	-	-	1,291	-	-	-1,291.48
05+45	5.00	-	748.31	-	-	140	-	-	1,466	-	-	-1,465.92
05+50	5.00	-	741.46	-	-	138	-	-	1,638	-	-	-1,638.35
05+55	5.00	-	738.88	-	-	137	-	-	1,810	-	-	-1,809.69
05+60	5.00	-	739.63	-	-	137	-	-	1,981	-	-	-1,980.81
05+65	5.00	-	747.03	-	-	138	-	-	2,153	-	-	-2,152.88
05+70	5.00	-	757.74	-	-	139	-	-	2,327	-	-	-2,327.04
05+75	5.00	-	767.19	-	-	141	-	-	2,504	-	-	-2,503.54
05+80	5.00	-	687.57	-	-	135	-	-	2,672	-	-	-2,671.91
05+85	5.00	-	533.85	-	-	113	-	-	2,813	-	-	-2,813.28
05+90	5.00	-	446.87	-	-	91	-	-	2,927	-	-	-2,926.79
05+95	5.00	-	408.46	-	-	79	-	-	3,026	-	-	-3,025.79
06+00	5.00	-	399.21	-	-	75	-	-	3,119	-	-	-3,119.27
06+05	5.00	-	406.15	-	-	75	-	-	3,212	-	-	-3,212.48
06+10	5.00	-	429.08	-	-	77	-	-	3,309	-	-	-3,309.15
06+15	5.00	-	399.53	-	-	77	-	-	3,405	-	-	-3,405.05
06+20	5.00	-	421.30	-	-	76	-	-	3,500	-	-	-3,500.06
06+25	5.00	-	564.79	-	-	91	-	-	3,614	-	-	-3,614.19
06+30	5.00	-	772.04	-	-	124	-	-	3,769	-	-	-3,768.91
06+35	5.00	-	867.27	-	-	152	-	-	3,959	-	-	-3,958.65
06+40	5.00	-	889.25	-	-	163	-	-	4,162	-	-	-4,161.95
06+45	5.00	-	945.46	-	-	170	-	-	4,374	-	-	-4,374.30
06+50	5.00	-	1,014.10	-	-	181	-	-	4,601	-	-	-4,601.10
06+55	5.00	-	926.19	-	-	180	-	-	4,826	-	-	-4,825.67
06+60	5.00	-	839.09	-	-	163	-	-	5,030	-	-	-5,029.98
06+65	5.00	-	781.16	-	-	150	-	-	5,218	-	-	-5,217.51
06+70	5.00	-	730.61	-	-	140	-	-	5,392	-	-	-5,392.49
06+75	5.00	-	699.61	-	-	132	-	-	5,558	-	-	-5,558.02
06+80	5.00	-	693.21	-	-	129	-	-	5,719	-	-	-5,719.23
06+85	5.00	1.18	677.98	-	0	127	-	0	5,878	-	-	-5,877.82
06+90	5.00	-	607.41	-	0	119	-	0	6,027	-	-	-6,026.48
06+95	5.00	-	599.80	-	-	112	-	0	6,166	-	-	-6,166.21
07+00	5.00	-	600.40	-	-	111	-	0	6,305	-	-	-6,305.12

Sheet 1 Total	0	5,044	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS In Fill 0.80	
					Note 1	Note 3		Note 1		Note 5	Note 7	Note 8
07+05	5.00	-	588.35	-	-	110	-	0	6,443	-	-	-6,442.70
07+05.73	0.73	-	588.43	-	-	16	-	0	6,463	-	-	-6,462.53
07+10	4.27	-	594.18	-	-	94	-	0	6,580	-	-	-6,579.48
07+15	5.00	-	605.67	-	-	111	-	0	6,719	-	-	-6,718.36
07+20	5.00	-	620.96	-	-	114	-	0	6,861	-	-	-6,860.33
07+25	5.00	-	634.57	-	-	116	-	0	7,006	-	-	-7,005.64
07+30	5.00	-	609.18	-	-	115	-	0	7,150	-	-	-7,149.59
07+35	5.00	0.50	614.06	-	0	113	-	0	7,291	-	-	-7,291.13
07+40	5.00	-	643.33	-	0	116	-	0	7,437	-	-	-7,436.61
07+45	5.00	-	689.42	-	-	123	-	0	7,591	-	-	-7,590.86
07+50	5.00	3.65	701.94	-	0	129	-	1	7,752	-	-	-7,751.56
07+55	5.00	4.34	713.68	-	1	131	-	1	7,916	-	-	-7,914.67
07+60	5.00	4.28	729.94	-	1	134	-	2	8,083	-	-	-8,080.96
07+65	5.00	4.39	752.17	-	1	137	-	3	8,255	-	-	-8,251.69
07+70	5.00	4.07	783.88	-	1	142	-	4	8,432	-	-	-8,428.69
07+75	5.00	-	738.93	-	0	141	-	4	8,609	-	-	-8,604.57
07+80	5.00	-	701.96	-	-	133	-	4	8,775	-	-	-8,771.34
07+85	5.00	-	699.22	-	-	130	-	4	8,938	-	-	-8,933.51
07+90	5.00	-	697.19	-	-	129	-	4	9,099	-	-	-9,095.13
07+95	5.00	-	796.40	-	-	138	-	4	9,272	-	-	-9,268.00
08+00	5.00	-	819.91	-	-	150	-	4	9,459	-	-	-9,455.07
08+05	5.00	-	800.75	-	-	150	-	4	9,647	-	-	-9,642.65
08+10	5.00	-	720.06	-	-	141	-	4	9,823	-	-	-9,818.67
08+15	5.00	-	596.75	-	-	122	-	4	9,975	-	-	-9,971.08
08+20	5.00	-	552.16	-	-	106	-	4	10,108	-	-	-10,104.05
08+25	5.00	-	517.80	-	-	99	-	4	10,232	-	-	-10,227.89
08+30	5.00	-	508.31	-	-	95	-	4	10,351	-	-	-10,346.65
08+35	5.00	-	529.37	-	-	96	-	4	10,471	-	-	-10,466.75
08+40	5.00	-	552.16	-	-	100	-	4	10,596	-	-	-10,591.93
08+45	5.00	-	584.88	-	-	105	-	4	10,728	-	-	-10,723.53
08+50	5.00	-	616.92	-	-	111	-	4	10,867	-	-	-10,862.63
08+55	5.00	-	658.91	-	-	118	-	4	11,014	-	-	-11,010.29
08+60	5.00	-	690.73	-	-	125	-	4	11,171	-	-	-11,166.50
08+65	5.00	-	722.20	-	-	131	-	4	11,334	-	-	-11,330.04
08+70	5.00	-	749.98	-	-	136	-	4	11,505	-	-	-11,500.43
08+75	5.00	-	778.50	-	-	142	-	4	11,681	-	-	-11,677.33
08+80	5.00	-	797.67	-	-	146	-	4	11,864	-	-	-11,859.76
08+85	5.00	-	810.90	-	-	149	-	4	12,050	-	-	-12,045.94
08+90	5.00	-	818.33	-	-	151	-	4	12,239	-	-	-12,234.51
08+95	5.00	-	820.61	-	-	152	-	4	12,428	-	-	-12,424.20
09+00	5.00	-	825.96	-	-	152	-	4	12,619	-	-	-12,614.77
09+05	5.00	-	828.05	-	-	153	-	4	12,810	-	-	-12,806.21
09+10	5.00	-	827.81	-	-	153	-	4	13,002	-	-	-12,997.86
09+11.46	1.46	-	827.37	-	-	45	-	4	13,058	-	-	-13,053.63

Sheet 2 Total	4	5,402	-
Total	4	10,446	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
10+50	0.00	-	10.21	-	-	-	-	-	-	-	-	0.00
10+59.62	9.62	-	75.99	-	-	15	-	-	19	-	-	-19.19
10+78.7	19.08	-	73.76	-	-	53	-	-	85	-	-	-85.34
10+93.2	14.50	12.04	87.94	-	3	43	-	3	140	-	-	-136.38
11+00	6.80	11.26	102.13	-	3	24	-	6	170	-	-	-163.37
11+25.84	25.84	9.44	103.00	-	10	98	-	16	292	-	-	-276.16
11+28.55	2.72	15.37	102.28	-	1	10	-	17	305	-	-	-287.82
11+50	21.45	14.43	97.49	-	12	79	-	29	404	-	-	-375.15
12+00	50.00	24.32	100.28	-	36	183	-	65	633	-	-	-568.17
12+50	50.00	51.75	95.94	-	70	182	-	135	860	-	-	-724.84
12+91.2	41.20	60.72	50.45	-	86	112	-	221	1,000	-	-	-778.65
13+00	8.80	66.33	43.64	-	21	15	-	242	1,019	-	-	-777.11
13+05.7	5.70	71.31	40.95	-	15	9	-	257	1,030	-	-	-773.74
13+15.62	9.92	78.91	37.15	-	28	14	-	284	1,048	-	-	-764.08
13+41.95	26.33	107.40	29.40	-	91	32	-	375	1,089	-	-	-713.80
13+50	8.05	113.38	27.12	-	33	8	-	408	1,099	-	-	-691.42
13+78.2	28.20	126.82	24.78	-	125	27	-	533	1,133	-	-	-599.86
14+00	21.80	118.20	31.94	-	99	23	-	632	1,162	-	-	-529.56
14+14.45	14.45	108.79	37.58	-	61	19	-	693	1,185	-	-	-492.08
14+50	35.55	104.37	42.91	-	140	53	-	833	1,251	-	-	-417.98
14+70.83	20.83	101.25	41.95	-	79	33	-	913	1,292	-	-	-379.59
15+00	29.17	92.79	33.08	-	105	41	-	1,017	1,343	-	-	-325.43
15+50	50.00	105.15	25.35	-	183	54	-	1,201	1,410	-	-	-209.78
15+76.89	26.89	131.43	18.98	-	118	22	-	1,319	1,438	-	-	-119.56
16+00	23.11	150.05	13.69	-	120	14	-	1,439	1,456	-	-	-16.58
16+50	50.00	176.10	3.62	-	302	16	-	1,741	1,476	-	-	265.37
17+00	50.00	170.73	10.77	-	321	13	-	2,062	1,492	-	-	569.86
17+50	50.00	129.38	26.21	-	278	34	-	2,340	1,535	-	-	804.94
17+68.42	18.42	92.92	43.51	-	76	24	-	2,416	1,565	-	-	851.05
17+68.65	0.23	92.92	43.61	-	1	0	-	2,417	1,565	-	-	851.38
18+00	31.35	95.46	-	-	109	25	-	2,526	1,597	-	-	929.09

Total	2,526	1,278	-

9

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 2S – SCHOOL ROAD	SHEET:	E

PLOT DATE: 8/5/2014 8:23:17 AM PLOT BY: DOTERA PLOT NAME: EW DETAILS PLOT SCALE: NONE

FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\8110-02-72_ew.PPTX

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
182+82.35	0.00	31.43	-	-	-	-	-	-	-	-	-	0.00
183+00	17.65	1.35	836.48	-	11	273	-	11	342	-	-	-330.98
183+50	50.00	0.38	1,714.20	-	2	2,362	-	12	3,294	-	-	-3,281.55
184+00	50.00	-	1,435.33	-	0	2,916	-	13	6,939	-	-	-6,926.49
184+50	50.00	-	469.44	-	-	1,764	-	13	9,144	-	-	-9,131.08
185+00	50.00	-	-	-	-	435	-	13	9,687	-	-	-9,674.42
185+50	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
186+00	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
186+50	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
187+00	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
187+50	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
188+00	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
188+50	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
189+00	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
189+50	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
190+00	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
190+50	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
191+00	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
191+50	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
192+00	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
192+50	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
193+00	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
193+50	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
194+00	50.00	-	-	-	-	-	-	13	9,687	-	-	-9,674.42
194+28.34	28.34	-	-	-	-	-	-	13	9,687	-	-	-9,674.42

Total	13	7,750	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
181+70.85	0.00	250.41	147.16	-	-	-	-	-	-	-	-	0.00
182+00	29.15	12.64	61.22	-	142	112	-	142	141	-	-	1.39
182+50	50.00	6.64	84.22	-	18	135	-	160	309	-	-	-149.07
183+00	50.00	359.25	81.30	-	339	153	-	499	501	-	-	-1.84
183+50	50.00	1,716.29	73.44	-	1,922	143	-	2,420	680	-	-	1,740.86
184+00	50.00	2,714.73	1,054.19	-	4,103	1,044	-	6,523	1,985	-	-	4,538.53
184+50	50.00	2,665.62	737.71	-	4,982	1,659	-	11,505	4,059	-	-	7,446.36
185+00	50.00	1,777.95	22.50	-	4,114	704	-	15,619	4,939	-	-	10,680.90
185+50	50.00	35.53	20.12	-	1,679	39	-	17,299	4,988	-	-	12,310.72
186+00	50.00	7.65	19.64	-	40	37	-	17,339	5,034	-	-	12,304.69
186+50	50.00	4.48	17.88	-	11	35	-	17,350	5,077	-	-	12,272.49
187+00	50.00	1.56	17.28	-	6	33	-	17,355	5,118	-	-	12,237.37
187+50	50.00	12.33	0.17	-	13	16	-	17,368	5,138	-	-	12,230.03
188+00	50.00	158.51	0.15	-	158	0	-	17,526	5,139	-	-	12,387.85
188+50	50.00	385.25	-	-	503	0	-	18,030	5,139	-	-	12,891.15
189+00	50.00	425.80	-	-	751	-	-	18,781	5,139	-	-	13,642.12
189+50	50.00	332.56	5.14	-	702	5	-	19,483	5,145	-	-	14,338.36
190+00	50.00	150.48	7.92	-	447	12	-	19,930	5,160	-	-	14,770.51
190+50	50.00	0.33	8.86	-	140	16	-	20,070	5,179	-	-	14,890.73
191+00	50.00	26.89	9.13	-	25	17	-	20,095	5,200	-	-	14,895.10
191+50	50.00	40.05	4.14	-	62	12	-	20,157	5,215	-	-	14,941.72
192+00	50.00	45.18	-	-	79	4	-	20,236	5,220	-	-	15,015.85
192+50	50.00	87.38	23.50	-	123	22	-	20,359	5,247	-	-	15,111.40
193+00	50.00	97.33	22.02	-	171	42	-	20,530	5,300	-	-	15,229.74
193+50	50.00	48.73	20.54	-	135	39	-	20,665	5,349	-	-	15,315.73
194+00	50.00	7.57	19.17	-	52	37	-	20,717	5,395	-	-	15,321.90
194+50	50.00	-	0.28	-	7	18	-	20,724	5,418	-	-	15,306.41
195+00	50.00	-	0.65	-	-	1	-	20,724	5,419	-	-	15,305.33
195+50	50.00	-	1.13	-	-	2	-	20,724	5,421	-	-	15,303.27
196+00	50.00	0.84	1.60	-	1	3	-	20,725	5,424	-	-	15,300.89
196+50	50.00	1.18	2.39	-	2	4	-	20,727	5,429	-	-	15,298.15
197+00	50.00	-	3.12	-	1	5	-	20,728	5,435	-	-	15,292.86
197+50	50.00	-	3.70	-	-	6	-	20,728	5,443	-	-	15,284.97
198+00	50.00	-	4.28	-	-	7	-	20,728	5,452	-	-	15,275.74
198+50	50.00	-	4.63	-	-	8	-	20,728	5,463	-	-	15,265.42
198+76.77	26.77	0.15	3.50	-	0	4	-	20,728	5,468	-	-	15,260.46

Total	20,728	4,374	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
167+66.94	0.00	5.08	0.93	-	-	-	-	-	-	-	-	0.00
168+00	33.06	2.17	3.06	-	4	2	-	4	3	-	-	1.39
168+50	50.00	7.66	14.73	-	9	16	-	14	24	-	-	-10.09
169+00	50.00	16.48	25.27	-	22	37	-	36	70	-	-	-34.03
169+50	50.00	28.88	34.58	-	42	55	-	78	139	-	-	-61.30
170+00	50.00	37.23	38.36	-	61	68	-	139	224	-	-	-84.50
170+50	50.00	38.86	38.95	-	70	72	-	210	313	-	-	-103.52
171+00	50.00	44.60	43.75	-	77	77	-	287	409	-	-	-121.96
171+50	50.00	33.03	46.51	-	72	84	-	359	513	-	-	-154.55
172+00	50.00	26.66	51.05	-	55	90	-	414	626	-	-	-212.20
172+50	50.00	20.68	53.12	-	44	96	-	458	747	-	-	-288.94
173+00	50.00	17.39	43.28	-	35	89	-	493	858	-	-	-365.26
173+50	50.00	15.02	30.60	-	30	68	-	523	944	-	-	-420.75
174+00	50.00	15.28	14.23	-	28	42	-	551	996	-	-	-444.57
174+50	50.00	38.38	10.51	-	50	23	-	601	1,024	-	-	-423.52
175+00	50.00	53.69	3.85	-	85	13	-	686	1,041	-	-	-354.89
175+50	50.00	37.46	-	-	84	4	-	770	1,045	-	-	-274.95
176+00	50.00	-	-	-	35	-	-	805	1,045	-	-	-240.26
176+50	50.00	-	-	-	-	-	-	805	1,045	-	-	-240.26
177+00	50.00	-	-	-	-	-	-	805	1,045	-	-	-240.26
177+50	50.00	9.08	-	-	8	-	-	814	1,045	-	-	-231.85
178+00	50.00	57.21	4.89	-	61	5	-	875	1,051	-	-	-176.14
178+50	50.00	25.24	-	-	76	5	-	951	1,057	-	-	-105.46
179+00	50.00	1.23	-	-	25	-	-	976	1,057	-	-	-80.95
179+50	50.00	3.05	9.24	-	4	9	-	980	1,067	-	-	-87.69
180+00	50.00	31.72	4.66	-	32	13	-	1,012	1,084	-	-	-71.58
180+50	50.00	39.34	5.19	-	66	9	-	1,078	1,095	-	-	-17.19
181+00	50.00	16.73	6.17	-	52	11	-	1,130	1,108	-	-	21.57
181+19.23	19.23	2.06	12.31	-	7	7	-	1,136	1,116	-	-	20.04

Total	1,136	893	-

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 2S – SE RAMP	SHEET:	E

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
167+64.23	0.00	10.15	3.60	-	-	-	-	-	-	-	-	0.00
167+71.45	7.22	2.69	3.30	-	2	1	-	2	1	-	-	0.56
168+00	28.55	0.55	5.31	-	2	5	-	3	7	-	-	-3.42
168+50	50.00	0.61	17.82	-	1	21	-	5	34	-	-	-29.12
169+00	50.00	0.66	20.66	-	1	36	-	6	78	-	-	-72.48
169+50	50.00	0.61	20.38	-	1	38	-	7	126	-	-	-118.79
170+00	50.00	1.86	23.86	-	2	41	-	9	177	-	-	-167.71
170+29.14	29.14	2.52	24.85	-	2	26	-	12	210	-	-	-198.19
170+50	20.86	2.43	25.58	-	2	19	-	13	234	-	-	-220.64
171+00	50.00	2.19	27.72	-	4	49	-	18	296	-	-	-278.06
171+50	50.00	0.47	43.74	-	2	66	-	20	378	-	-	-358.31
172+00	50.00	0.53	50.57	-	1	87	-	21	488	-	-	-466.55
172+50	50.00	0.65	51.03	-	1	94	-	22	605	-	-	-583.05
172+86.82	36.82	0.49	50.50	-	1	69	-	23	692	-	-	-668.81
173+00	13.18	2.65	47.68	-	1	24	-	24	722	-	-	-697.99
173+35.01	35.01	0.74	47.70	-	2	62	-	26	799	-	-	-773.08
173+50	14.99	0.89	34.93	-	0	23	-	26	828	-	-	-801.31
173+81.59	31.59	0.92	29.51	-	1	38	-	27	875	-	-	-847.37
174+00	18.41	0.91	25.45	-	1	19	-	28	898	-	-	-870.16
174+50	50.00	2.24	15.20	-	3	38	-	31	945	-	-	-914.29
175+00	50.00	4.88	6.85	-	7	20	-	38	971	-	-	-933.21
175+35	35.00	4.41	8.21	-	6	10	-	44	983	-	-	-939.38
175+50	15.00	4.24	3.89	-	2	3	-	46	987	-	-	-941.18
176+00	50.00	3.89	0.39	-	8	4	-	54	992	-	-	-938.60
176+50	50.00	3.36	0.24	-	7	1	-	60	993	-	-	-932.62
177+00	50.00	-	-	-	3	0	-	63	993	-	-	-929.78
177+23.75	23.75	-	-	-	-	-	-	63	993	-	-	-929.78
177+50	26.25	-	-	-	-	-	-	63	993	-	-	-929.78
178+00	50.00	-	17.77	-	-	16	-	63	1,014	-	-	-950.35
178+50	50.00	-	17.74	-	-	33	-	63	1,055	-	-	-991.46
179+00	50.00	-	17.71	-	-	33	-	63	1,096	-	-	-1,032.49
179+27.57	27.57	-	17.70	-	-	18	-	63	1,118	-	-	-1,055.09
179+50	22.43	-	17.69	-	-	15	-	63	1,137	-	-	-1,073.47
180+00	50.00	-	109.67	-	-	118	-	63	1,284	-	-	-1,220.87
180+20.35	20.35	14.16	-	-	5	41	-	69	1,336	-	-	-1,267.19

Total	69	1,069	-

9

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 2S – SW RAMP	SHEET:	E

PLOT DATE: 8/5/2014 8:23:17 AM PLOT BY: DOTERA PLOT NAME: EW DETAILS PLOT SCALE: NONE

FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\8110-02-72_ew.PPTX

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
230+62.43	0.00	-	-	-	-	-	-	-	-	-	-	0.00
231+00	37.57	-	509.81	-	-	355	-	-	443	-	-	-443.39
231+50	50.00	-	625.84	-	-	1,052	-	-	1,758	-	-	-1,757.81
232+00	50.00	-	698.02	-	-	1,226	-	-	3,290	-	-	-3,290.05
232+50	50.00	-	816.59	-	-	1,402	-	-	5,043	-	-	-5,043.07
233+00	50.00	-	939.44	-	-	1,626	-	-	7,076	-	-	-7,075.51
233+50	50.00	-	764.95	-	-	1,578	-	-	9,048	-	-	-9,048.18
234+00	50.00	-	812.78	-	-	1,461	-	-	10,874	-	-	-10,874.26
234+50	50.00	-	634.68	-	-	1,340	-	-	12,550	-	-	-12,549.56
235+00	50.00	58.65	182.61	-	54	757	-	54	13,495	-	-	-13,441.19
235+50	50.00	369.72	3.07	-	397	172	-	451	13,710	-	-	-13,259.46
236+00	50.00	918.21	-	-	1,193	3	-	1,643	13,714	-	-	-12,070.49
236+50	50.00	1,421.75	-	-	2,167	-	-	3,810	13,714	-	-	-9,903.86
237+00	50.00	1,844.89	-	-	3,025	-	-	6,835	13,714	-	-	-6,879.19
237+50	50.00	2,059.51	-	-	3,615	-	-	10,450	13,714	-	-	-3,264.01
238+00	50.00	1,951.84	-	-	3,714	-	-	14,164	13,714	-	-	450.20
238+50	50.00	2,045.17	-	-	3,701	-	-	17,865	13,714	-	-	4,151.13
239+00	50.00	2,068.61	-	-	3,809	-	-	21,674	13,714	-	-	7,960.18
239+50	50.00	2,127.43	-	-	3,885	-	-	25,559	13,714	-	-	11,845.40
240+00	50.00	2,123.57	-	-	3,936	-	-	29,495	13,714	-	-	15,781.52
240+50	50.00	1,690.42	-	-	3,531	-	-	33,027	13,714	-	-	19,312.99
241+00	50.00	1,054.84	-	-	2,542	-	-	35,569	13,714	-	-	21,854.90
241+50	50.00	776.23	17.49	-	1,695	16	-	37,264	13,734	-	-	23,530.10
242+00	50.00	93.83	513.51	-	806	492	-	38,070	14,349	-	-	23,721.13
242+50	50.00	-	2,103.39	-	87	2,423	-	38,157	17,378	-	-	20,779.18
242+62.35	12.35	-	2,354.40	-	-	1,020	-	38,157	18,652	-	-	19,504.74
243+00	37.65	-	2,696.52	-	-	3,522	-	38,157	23,054	-	-	15,102.77
243+50	50.00	3.73	1,027.64	-	3	3,448	-	38,160	27,364	-	-	10,795.85
244+00	50.00	-	2,411.97	-	3	3,185	-	38,164	31,345	-	-	6,818.27
244+50	50.00	-	2,090.06	-	-	4,169	-	38,164	36,556	-	-	1,607.59
245+00	50.00	-	1,801.11	-	-	3,603	-	38,164	41,060	-	-	-2,896.09
245+50	50.00	1.33	1,157.99	-	1	2,740	-	38,165	44,485	-	-	-6,319.74
246+00	50.00	32.93	788.20	-	32	1,802	-	38,197	46,737	-	-	-8,540.55
246+50	50.00	27.20	662.99	-	56	1,344	-	38,252	48,417	-	-	-10,164.50
247+00	50.00	0.96	774.48	-	26	1,331	-	38,278	50,081	-	-	-11,802.16
247+50	50.00	-	1,016.60	-	1	1,658	-	38,279	52,154	-	-	-13,874.29
248+00	50.00	-	961.34	-	-	1,831	-	38,279	54,443	-	-	-16,163.58
248+50	50.00	-	792.61	-	-	1,624	-	38,279	56,473	-	-	-18,193.61
249+00	50.00	-	1,083.74	-	-	1,737	-	38,279	58,645	-	-	-20,365.30
249+50	50.00	-	1,078.47	-	-	2,002	-	38,279	61,147	-	-	-22,867.85

Sheet 1 Total	38,279	48,918	-

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 5	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
250+00	50.00	-	1,120.59	-	-	2,036	-	38,279	63,692	-	-	-25,413.06
250+50	50.00	-	1,042.78	-	-	2,003	-	38,279	66,196	-	-	-27,916.96
251+00	50.00	-	1,117.04	-	-	2,000	-	38,279	68,696	-	-	-30,416.75
251+50	50.00	-	1,309.69	-	-	2,247	-	38,279	71,505	-	-	-33,225.46
252+00	50.00	-	1,325.32	-	-	2,440	-	38,279	74,555	-	-	-36,275.24
252+50	50.00	-	1,482.71	-	-	2,600	-	38,279	77,805	-	-	-39,525.27
253+00	50.00	-	1,396.78	-	-	2,666	-	38,279	81,137	-	-	-42,858.01
253+50	50.00	-	1,084.56	-	-	2,298	-	38,279	84,009	-	-	-45,729.93
254+00	50.00	-	821.35	-	-	1,765	-	38,279	86,215	-	-	-47,935.85
254+50	50.00	-	830.95	-	-	1,530	-	38,279	88,128	-	-	-49,848.23
255+00	50.00	2.82	986.61	-	3	1,683	-	38,282	90,231	-	-	-51,949.27
255+50	50.00	0.59	893.07	-	3	1,740	-	38,285	92,407	-	-	-54,121.66
256+00	50.00	11.77	573.96	-	11	1,358	-	38,296	94,105	-	-	-55,808.16
256+50	50.00	29.06	549.32	-	38	1,040	-	38,334	95,405	-	-	-57,070.46
257+00	50.00	12.84	683.91	-	39	1,142	-	38,373	96,832	-	-	-58,459.02
257+50	50.00	3.16	645.18	-	15	1,231	-	38,388	98,370	-	-	-59,982.50
258+00	50.00	5.52	397.68	-	8	966	-	38,396	99,577	-	-	-61,181.47
258+50	50.00	4.87	360.77	-	10	702	-	38,406	100,455	-	-	-62,049.68
259+00	50.00	1.73	438.52	-	6	740	-	38,412	101,380	-	-	-62,968.68
259+50	50.00	7.89	334.03	-	9	715	-	38,421	102,275	-	-	-63,853.94
260+00	50.00	15.64	229.54	-	22	522	-	38,442	102,927	-	-	-64,484.43
260+20	20.00	25.87	163.00	-	15	145	-	38,458	103,109	-	-	-64,650.78
260+50	30.00	51.84	85.51	-	43	138	-	38,501	103,281	-	-	-64,780.18
261+00	50.00	27.39	113.47	-	73	184	-	38,574	103,511	-	-	-64,937.12
261+50	50.00	62.18	112.35	-	83	209	-	38,657	103,773	-	-	-65,115.56
261+90	40.00	127.46	60.13	-	140	128	-	38,798	103,932	-	-	-65,134.79
262+00	10.00	150.81	59.32	-	52	22	-	38,849	103,960	-	-	-65,110.91
262+50	50.00	56.16	263.58	-	192	299	-	39,041	104,334	-	-	-65,292.99
262+80	30.00	37.74	332.60	-	52	331	-	39,093	104,748	-	-	-65,654.84
263+00	20.00	47.45	349.08	-	32	252	-	39,125	105,063	-	-	-65,938.88
263+50	50.00	101.40	287.55	-	138	589	-	39,262	105,800	-	-	-66,537.90
263+70	20.00	161.69	199.70	-	97	180	-	39,360	106,026	-	-	-66,666.03
263+70.68	0.68	164.67	196.34	-	4	5	-	39,364	106,032	-	-	-66,668.15
264+00	29.32	211.83	100.79	-	204	161	-	39,568	106,234	-	-	-66,665.38
264+50	50.00	279.34	18.92	-	455	111	-	40,023	106,372	-	-	-66,349.14
264+60	10.00	292.83	11.45	-	106	6	-	40,129	106,379	-	-	-66,250.22
265+00	40.00	312.25	3.75	-	448	11	-	40,577	106,393	-	-	-65,816.08
265+50	50.00	140.24	42.37	-	419	43	-	40,996	106,447	-	-	-65,450.49
266+00	50.00	42.63	70.97	-	169	105	-	41,166	106,578	-	-	-65,412.35
266+50	50.00	10.78	75.04	-	49	135	-	41,215	106,747	-	-	-65,531.90
266+94.28	44.28	3.42	149.37	-	12	184	-	41,227	106,977	-	-	-65,750.25
267+00	5.72	1.53	167.22	-	1	34	-	41,227	107,019	-	-	-65,791.68
267+50	50.00	1.32	339.84	-	3	469	-	41,230	107,606	-	-	-66,375.91
268+00	50.00	5.42	664.98	-	6	930	-	41,236	108,769	-	-	-67,532.65
268+50	50.00	0.16	1,009.68	-	5	1,551	-	41,241	110,707	-	-	-69,465.75
Sheet 2 Total					2,962	39,648	-					

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 5	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
269+00	50.00	-	1,097.28	-	0	1,951	-	41,241	113,146	-	-	-71,904.21
269+50	50.00	-	1,029.00	-	-	1,969	-	41,241	115,607	-	-	-74,365.18
270+00	50.00	6.33	817.95	-	6	1,710	-	41,247	117,744	-	-	-76,496.99
270+50	50.00	109.03	285.14	-	107	1,021	-	41,354	119,021	-	-	-77,666.90
271+00	50.00	484.20	40.50	-	549	302	-	41,903	119,398	-	-	-77,494.50
271+50	50.00	676.15	27.05	-	1,074	63	-	42,978	119,476	-	-	-76,498.29
272+00	50.00	459.97	20.01	-	1,052	44	-	44,030	119,531	-	-	-75,500.80
272+50	50.00	789.97	7.38	-	1,157	25	-	45,187	119,562	-	-	-74,375.14
273+00	50.00	1,087.72	-	-	1,739	7	-	46,926	119,571	-	-	-72,645.09
273+03.95	3.95	1,096.58	-	-	160	-	-	47,086	119,571	-	-	-72,485.27
273+50	46.05	1,027.05	-	-	1,811	-	-	48,897	119,571	-	-	-70,674.33
274+00	50.00	916.76	-	-	1,800	-	-	50,696	119,571	-	-	-68,874.51
274+50	50.00	768.25	-	-	1,560	-	-	52,257	119,571	-	-	-67,314.31
275+00	50.00	740.79	-	-	1,397	-	-	53,654	119,571	-	-	-65,917.05
275+50	50.00	725.38	-	-	1,358	-	-	55,011	119,571	-	-	-64,559.48
276+00	50.00	500.59	0.12	-	1,135	0	-	56,147	119,571	-	-	-63,424.47
276+50	50.00	452.00	-	-	882	0	-	57,029	119,571	-	-	-62,542.59
277+00	50.00	892.82	-	-	1,245	-	-	58,274	119,571	-	-	-61,297.38
277+50	50.00	1,155.19	-	-	1,896	-	-	60,170	119,571	-	-	-59,401.08
278+00	50.00	879.71	-	-	1,884	-	-	62,054	119,571	-	-	-57,516.92
278+50	50.00	769.16	-	-	1,527	-	-	63,581	119,571	-	-	-55,990.20
279+00	50.00	834.70	-	-	1,485	-	-	65,066	119,571	-	-	-54,505.15
279+50	50.00	943.62	-	-	1,647	-	-	66,713	119,571	-	-	-52,858.56
280+00	50.00	1,142.72	-	-	1,932	-	-	68,644	119,571	-	-	-50,926.76
280+50	50.00	1,274.70	-	-	2,238	-	-	70,883	119,571	-	-	-48,688.42
281+00	50.00	1,410.41	-	-	2,486	-	-	73,369	119,571	-	-	-46,202.21
281+47	47.00	1,570.33	-	-	2,594	-	-	75,963	119,571	-	-	-43,607.86
281+50	3.00	1,586.33	-	-	175	-	-	76,139	119,571	-	-	-43,432.49
282+00	50.00	1,710.82	-	-	3,053	-	-	79,192	119,571	-	-	-40,379.57
282+37	37.00	1,695.11	-	-	2,334	-	-	81,525	119,571	-	-	-38,045.87
282+37.22	0.22	1,708.42	-	-	14	-	-	81,539	119,571	-	-	-38,031.83
282+50	12.78	1,705.75	0.89	-	808	0	-	82,347	119,571	-	-	-37,224.25
283+00	50.00	1,721.93	-	-	3,174	1	-	85,521	119,572	-	-	-34,051.50
283+27	27.00	1,731.48	-	-	1,727	-	-	87,248	119,572	-	-	-32,324.80
283+50	23.00	1,703.86	-	-	1,463	-	-	88,711	119,572	-	-	-30,861.60
284+00	50.00	1,611.62	-	-	3,070	-	-	91,781	119,572	-	-	-27,791.71
284+17	17.00	1,577.34	-	-	1,004	-	-	92,785	119,572	-	-	-26,787.78
284+50	33.00	1,513.63	-	-	1,889	-	-	94,674	119,572	-	-	-24,898.85
285+00	50.00	1,476.38	-	-	2,769	-	-	97,442	119,572	-	-	-22,130.32
285+07	7.00	1,447.12	-	-	379	-	-	97,821	119,572	-	-	-21,751.35
285+50	43.00	1,385.16	-	-	2,255	-	-	100,076	119,572	-	-	-19,496.01
285+85	35.00	1,338.19	-	-	1,765	-	-	101,842	119,572	-	-	-17,730.88
286+00	15.00	1,319.47	-	-	738	-	-	102,580	119,572	-	-	-16,992.64
286+50	50.00	1,245.95	-	-	2,375	-	-	104,955	119,572	-	-	-14,617.25
287+00	50.00	1,110.34	-	-	2,182	-	-	107,137	119,572	-	-	-12,435.51
Sheet 3 Total					65,896	7,092	-					

9

9

PROJECT: 8110-02-72 | HWY: STH 64 | COUNTY: ST. CROIX | EARTHWORK DETAILS: STAGE 2N – STH 64 NORTH | SHEET: E

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 5	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
287+50	50.00	1,188.21	-	-	2,128	-	-	109,265	119,572	-	-	-10,307.23
288+00	50.00	1,104.28	-	-	2,123	-	-	111,388	119,572	-	-	-8,184.55
288+50	50.00	1,035.58	-	-	1,981	-	-	113,369	119,572	-	-	-6,203.20
289+00	50.00	974.29	-	-	1,861	-	-	115,230	119,572	-	-	-4,342.21
289+50	50.00	936.15	-	-	1,769	-	-	116,999	119,572	-	-	-2,573.28
290+00	50.00	1,159.64	-	-	1,941	-	-	118,940	119,572	-	-	-632.74
290+50	50.00	1,096.49	-	-	2,089	-	-	121,029	119,572	-	-	1,456.27
291+00	50.00	1,045.35	-	-	1,983	-	-	123,012	119,572	-	-	3,439.45
291+50	50.00	971.87	-	-	1,868	-	-	124,880	119,572	-	-	5,307.25
292+00	50.00	957.73	-	-	1,787	-	-	126,666	119,572	-	-	7,093.91
292+50	50.00	921.41	-	-	1,740	-	-	128,406	119,572	-	-	8,833.85
293+00	50.00	885.94	-	-	1,673	-	-	130,080	119,572	-	-	10,507.32
293+50	50.00	858.35	-	-	1,615	-	-	131,695	119,572	-	-	12,122.39
294+00	50.00	865.47	-	-	1,596	-	-	133,291	119,572	-	-	13,718.52
294+50	50.00	886.27	-	-	1,622	-	-	134,913	119,572	-	-	15,340.51
295+00	50.00	894.17	-	-	1,649	-	-	136,561	119,572	-	-	16,989.06
295+50	50.00	911.02	-	-	1,671	-	-	138,233	119,572	-	-	18,660.54
296+00	50.00	911.95	-	-	1,688	-	-	139,921	119,572	-	-	20,348.48
296+50	50.00	839.38	-	-	1,622	-	-	141,543	119,572	-	-	21,970.09
297+00	50.00	807.50	-	-	1,525	-	-	143,067	119,572	-	-	23,494.98
297+50	50.00	727.86	-	-	1,422	-	-	144,489	119,572	-	-	24,916.60
298+00	50.00	634.26	-	-	1,261	-	-	145,750	119,572	-	-	26,177.82
298+50	50.00	522.76	-	-	1,071	-	-	146,822	119,572	-	-	27,249.15
299+00	50.00	412.44	-	-	866	-	-	147,687	119,572	-	-	28,115.08
299+50	50.00	347.87	-	-	704	-	-	148,391	119,572	-	-	28,819.07
300+00	50.00	277.45	1.25	-	579	1	-	148,970	119,574	-	-	29,396.63
300+50	50.00	248.94	2.48	-	487	3	-	149,458	119,578	-	-	29,879.72
301+00	50.00	216.44	2.09	-	431	4	-	149,889	119,583	-	-	30,305.35
301+50	50.00	194.48	6.22	-	380	8	-	150,269	119,593	-	-	30,676.22
302+00	50.00	188.58	0.16	-	355	6	-	150,624	119,600	-	-	31,023.51
302+50	50.00	174.15	-	-	336	0	-	150,960	119,601	-	-	31,359.18
303+00	50.00	159.22	-	-	309	-	-	151,269	119,601	-	-	31,667.86
303+50	50.00	152.40	-	-	289	-	-	151,557	119,601	-	-	31,956.40
304+00	50.00	3.88	-	-	145	-	-	151,702	119,601	-	-	32,101.09
304+50	50.00	6.25	-	-	9	-	-	151,711	119,601	-	-	32,110.47
305+00	50.00	-	-	-	6	-	-	151,717	119,601	-	-	32,116.25
305+20.55	20.55	-	-	-	-	-	-	151,717	119,601	-	-	32,116.25
305+50	29.45	-	-	-	-	-	-	151,717	119,601	-	-	32,116.25
306+00	50.00	0.24	0.00	-	0	0	-	151,717	119,601	-	-	32,116.47

Sheet 4 Total	44,580	23	-
Total	151,717	95,681	-

9

9

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 2N – STH 64 NORTH	SHEET:	E

PLOT DATE: 8/5/2014 8:23:17 AM PLOT BY: DOTERA PLOT NAME: EW DETAILS PLOT SCALE: NONE

FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\8110-02-72_ew.PPTX

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 5	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
230+18.4	0.00	-	136.76	-	-	-	-	-	-	-	-	0.00
230+50	31.60	-	321.11	-	-	268	-	-	335	-	-	-334.89
231+00	50.00	-	702.57	-	-	948	-	-	1,520	-	-	-1,519.70
231+50	50.00	-	794.28	-	-	1,386	-	-	3,252	-	-	-3,252.17
232+00	50.00	-	756.99	-	-	1,436	-	-	5,048	-	-	-5,047.62
232+50	50.00	-	758.16	-	-	1,403	-	-	6,801	-	-	-6,801.27
233+00	50.00	5.08	773.98	-	5	1,419	-	5	8,575	-	-	-8,569.89
233+50	50.00	51.01	640.81	-	52	1,310	-	57	10,212	-	-	-10,155.45
234+00	50.00	95.14	642.53	-	135	1,188	-	192	11,697	-	-	-11,505.48
234+50	50.00	191.98	493.13	-	266	1,052	-	458	13,012	-	-	-12,554.05
235+00	50.00	405.44	256.36	-	553	694	-	1,011	13,879	-	-	-12,868.35
235+50	50.00	811.89	32.11	-	1,127	267	-	2,138	14,213	-	-	-12,075.07
236+00	50.00	1,507.00	-	-	2,147	30	-	4,285	14,250	-	-	-9,965.12
236+50	50.00	2,054.90	-	-	3,298	-	-	7,583	14,250	-	-	-6,667.06
237+00	50.00	2,327.43	-	-	4,058	-	-	11,641	14,250	-	-	-2,609.35
237+50	50.00	2,340.69	-	-	4,322	-	-	15,963	14,250	-	-	1,712.99
238+00	50.00	2,400.75	-	-	4,390	-	-	20,354	14,250	-	-	6,103.22
238+50	50.00	2,594.98	-	-	4,626	-	-	24,979	14,250	-	-	10,728.89
239+00	50.00	2,619.40	-	-	4,828	-	-	29,807	14,250	-	-	15,557.02
239+50	50.00	2,757.73	-	-	4,979	-	-	34,786	14,250	-	-	20,535.86
240+00	50.00	2,899.60	-	-	5,238	-	-	40,024	14,250	-	-	25,774.13
240+50	50.00	2,636.44	-	-	5,126	-	-	45,150	14,250	-	-	30,900.09
241+00	50.00	1,904.81	-	-	4,205	-	-	49,355	14,250	-	-	35,104.95
241+50	50.00	687.56	0.93	-	2,400	1	-	51,756	14,251	-	-	37,504.21
242+00	50.00	108.35	480.36	-	737	446	-	52,493	14,808	-	-	37,684.12
242+30.75	30.75	58.51	871.42	-	95	770	-	52,588	15,771	-	-	36,816.94
243+00	69.25	14.63	640.23	-	94	1,939	-	52,681	18,194	-	-	34,487.55
243+50	50.00	10.34	703.05	-	23	1,244	-	52,705	19,749	-	-	32,955.94
243+87.61	37.61	101.93	636.31	-	78	933	-	52,783	20,915	-	-	31,867.97
244+50	62.39	36.00	398.36	-	159	1,195	-	52,942	22,409	-	-	30,533.13
245+00	50.00	0.13	208.54	-	33	562	-	52,976	23,111	-	-	29,864.14
245+50	50.00	-	162.99	-	0	344	-	52,976	23,541	-	-	29,434.26
246+00	50.00	11.77	82.97	-	11	228	-	52,987	23,826	-	-	29,160.47
246+50	50.00	30.64	24.98	-	39	100	-	53,026	23,951	-	-	29,074.79
247+00	50.00	38.48	15.50	-	64	37	-	53,090	23,998	-	-	29,091.95
247+50	50.00	43.16	12.38	-	76	26	-	53,165	24,030	-	-	29,135.27
248+00	50.00	43.02	9.69	-	80	20	-	53,245	24,056	-	-	29,189.52
248+50	50.00	40.38	1.97	-	77	11	-	53,322	24,069	-	-	29,253.25
248+61.16	11.16	38.51	0.75	-	16	1	-	53,339	24,070	-	-	29,268.85

Total	53,339	19,256	-

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 2N – FRONTAGE ROAD A	SHEET:	E

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
230+08.59	0.00	-	-	-	-	-	-	-	-	-	-	0.00
230+34.3	25.71	-	-	-	-	-	-	-	-	-	-	0.00
230+50	15.70	-	-	-	-	-	-	-	-	-	-	0.00
231+00	50.00	-	462.92	-	-	429	-	-	536	-	-	-535.79
231+50	50.00	-	1,215.14	-	-	1,554	-	-	2,478	-	-	-2,477.99
231+76.66	26.66	-	1,406.10	-	-	1,294	-	-	4,096	-	-	-4,095.84
232+00	23.34	-	1,458.96	-	-	1,238	-	-	5,644	-	-	-5,643.56
232+50	50.00	-	1,477.11	-	-	2,719	-	-	9,042	-	-	-9,041.79
233+00	50.00	-	1,441.17	-	-	2,702	-	-	12,419	-	-	-12,419.43
233+50	50.00	-	1,301.65	-	-	2,540	-	-	15,594	-	-	-15,594.00
234+00	50.00	18.70	1,033.24	-	17	2,162	-	17	18,296	-	-	-18,279.11
234+50	50.00	-	850.58	-	17	1,744	-	35	20,477	-	-	-20,442.14
235+00	50.00	-	582.22	-	-	1,327	-	35	22,135	-	-	-22,100.48
235+07.55	7.55	-	542.80	-	-	157	-	35	22,332	-	-	-22,297.20
235+50	42.45	-	336.72	-	-	691	-	35	23,196	-	-	-23,161.36
236+00	50.00	9.04	129.54	-	8	432	-	43	23,736	-	-	-23,692.64
236+50	50.00	41.49	34.24	-	47	152	-	90	23,925	-	-	-23,835.42
237+00	50.00	48.88	13.46	-	84	44	-	173	23,980	-	-	-23,806.94
237+28.39	28.39	43.07	11.72	-	48	13	-	222	23,997	-	-	-23,775.15
237+50	21.61	49.19	10.47	-	37	9	-	259	24,008	-	-	-23,749.33
238+00	50.00	71.46	7.46	-	112	17	-	370	24,029	-	-	-23,658.36
238+50	50.00	106.45	2.06	-	165	9	-	535	24,040	-	-	-23,504.66
239+00	50.00	137.50	0.93	-	226	3	-	761	24,043	-	-	-23,282.24
239+50	50.00	163.22	1.52	-	278	2	-	1,040	24,046	-	-	-23,006.62
240+00	50.00	173.64	6.43	-	312	7	-	1,351	24,055	-	-	-22,703.90
240+02.94	2.94	173.75	7.38	-	19	1	-	1,370	24,056	-	-	-22,685.92
240+50	47.06	90.11	264.84	-	230	237	-	1,600	24,353	-	-	-22,752.51
241+00	50.00	7.17	1,098.89	-	90	1,263	-	1,690	25,931	-	-	-24,240.82
241+09.11	9.11	2.31	1,318.30	-	2	408	-	1,692	26,441	-	-	-24,748.70
242+09.12	100.01	-	1,664.88	-	-	6,167	-	1,692	34,149	-	-	-32,457.04
242+60.54	51.42	-	1,655.95	-	-	3,162	-	1,692	38,102	-	-	-36,409.74
243+00.28	39.74	-	1,687.18	-	-	2,460	-	1,692	41,177	-	-	-39,485.11
243+29.58	29.30	-	1,320.94	-	-	1,632	-	1,692	43,217	-	-	-41,525.35
243+79.82	50.24	-	788.20	-	-	1,962	-	1,692	45,670	-	-	-43,978.20
244+23.34	43.52	-	586.94	-	-	1,108	-	1,692	47,055	-	-	-45,363.52
244+65.55	42.21	-	406.04	-	-	776	-	1,692	48,026	-	-	-46,333.75
245+12.08	46.53	-	151.60	-	-	481	-	1,692	48,626	-	-	-46,934.37
245+62.84	50.76	-	-	-	-	143	-	1,692	48,804	-	-	-47,112.51
246+22.53	59.69	-	-	-	-	-	-	1,692	48,804	-	-	-47,112.51
246+72.53	50.00	-	-	-	-	-	-	1,692	48,804	-	-	-47,112.51

Sheet 1 Total	1,692	39,044	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
247+22.53	50.00	-	-	-	-	-	-	1,692	48,804	-	-	-47,112.51
247+72.53	50.00	-	-	-	-	-	-	1,692	48,804	-	-	-47,112.51
247+83.69	11.16	-	-	-	-	-	-	1,692	48,804	-	-	-47,112.51

Sheet 2 Total	-	-	-

Total	1,692	39,044	-

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PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 2N – BERM	SHEET:	E

PLOT DATE: 8/5/2014 8:23:17 AM PLOT BY: DOTERA PLOT NAME: EW DETAILS PLOT SCALE: NONE

FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\8110-02-72_ew.PPTX

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
242+36	0.00	-	21.30	-	-	-	-	-	-	-	-	0.00
242+40	4.00	-	171.52	-	-	14	-	-	18	-	-	-17.85
242+50	10.00	-	521.94	-	-	128	-	-	178	-	-	-178.38
242+60	10.00	-	790.47	-	-	243	-	-	482	-	-	-482.17
242+70	10.00	-	884.84	-	-	310	-	-	870	-	-	-869.97
242+80	10.00	104.77	913.83	-	19	333	-	19	1,286	-	-	-1,266.93
242+90	10.00	176.54	1,023.62	-	52	359	-	71	1,735	-	-	-1,663.32
243+00	10.00	165.65	972.66	-	63	370	-	135	2,197	-	-	-2,062.05
243+50	50.00	126.42	387.05	-	270	1,259	-	405	3,771	-	-	-3,365.35
244+00	50.00	264.12	284.67	-	362	622	-	767	4,548	-	-	-3,781.18
244+50	50.00	297.84	223.38	-	520	470	-	1,287	5,136	-	-	-3,848.87
245+00	50.00	134.16	368.91	-	400	548	-	1,687	5,822	-	-	-4,134.40
245+50	50.00	57.28	438.20	-	177	747	-	1,865	6,756	-	-	-4,891.30
246+00	50.00	72.24	285.07	-	120	670	-	1,984	7,593	-	-	-5,608.50
246+50	50.00	67.82	429.92	-	130	662	-	2,114	8,420	-	-	-6,306.35
247+00	50.00	61.43	490.85	-	120	853	-	2,234	9,486	-	-	-7,252.39
247+50	50.00	87.88	520.04	-	138	936	-	2,372	10,656	-	-	-8,284.17
248+00	50.00	149.03	332.11	-	219	789	-	2,591	11,642	-	-	-9,051.09
248+50	50.00	185.52	189.53	-	310	483	-	2,901	12,246	-	-	-9,345.08
249+00	50.00	156.02	350.71	-	316	500	-	3,217	12,871	-	-	-9,654.13
249+50	50.00	98.29	288.41	-	235	592	-	3,453	13,611	-	-	-10,158.38
250+00	50.00	199.04	86.34	-	275	347	-	3,728	14,045	-	-	-10,316.80
250+50	50.00	181.93	51.55	-	353	128	-	4,081	14,205	-	-	-10,123.65
251+00	50.00	127.37	135.82	-	286	173	-	4,367	14,421	-	-	-10,054.12
251+50	50.00	115.11	153.16	-	225	268	-	4,592	14,756	-	-	-10,164.06
252+00	50.00	178.62	154.13	-	272	285	-	4,864	15,112	-	-	-10,247.74
252+50	50.00	104.19	194.44	-	262	323	-	5,126	15,515	-	-	-10,389.31
253+00	50.00	89.57	231.87	-	179	395	-	5,305	16,008	-	-	-10,703.32
253+50	50.00	39.99	295.07	-	120	488	-	5,425	16,618	-	-	-11,193.24
254+00	50.00	28.24	320.60	-	63	570	-	5,488	17,331	-	-	-11,842.65
254+50	50.00	37.09	306.83	-	60	581	-	5,549	18,057	-	-	-12,508.35
255+00	50.00	62.19	333.37	-	92	593	-	5,641	18,798	-	-	-13,157.40
255+50	50.00	21.28	363.86	-	77	646	-	5,718	19,605	-	-	-13,887.10
256+00	50.00	15.72	321.80	-	34	635	-	5,752	20,399	-	-	-14,646.44
256+50	50.00	-	353.56	-	15	625	-	5,767	21,180	-	-	-15,413.55
257+00	50.00	14.34	220.86	-	13	532	-	5,780	21,845	-	-	-16,065.11
257+50	50.00	97.07	47.93	-	103	249	-	5,883	22,156	-	-	-16,273.06
258+00	50.00	260.17	-	-	331	44	-	6,214	22,212	-	-	-15,997.77
258+50	50.00	273.85	-	-	494	-	-	6,708	22,212	-	-	-15,503.31
259+00	50.00	244.71	-	-	480	-	-	7,188	22,212	-	-	-15,023.15

Sheet 1 Total	7,188	17,769	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
259+50	50.00	254.17	-	-	462	-	-	7,650	22,212	-	-	-14,561.22
260+00	50.00	282.05	-	-	497	-	-	8,147	22,212	-	-	-14,064.72
260+50	50.00	272.60	-	-	514	-	-	8,661	22,212	-	-	-13,551.15
261+00	50.00	229.60	-	-	465	-	-	9,126	22,212	-	-	-13,086.15
261+50	50.00	207.66	-	-	405	-	-	9,530	22,212	-	-	-12,681.28
262+00	50.00	304.50	-	-	474	-	-	10,005	22,212	-	-	-12,207.05
262+50	50.00	309.62	-	-	569	-	-	10,573	22,212	-	-	-11,638.41
263+00	50.00	571.00	-	-	815	-	-	11,389	22,212	-	-	-10,823.02
263+50	50.00	745.34	-	-	1,219	-	-	12,607	22,212	-	-	-9,604.19
264+00	50.00	625.76	-	-	1,270	-	-	13,877	22,212	-	-	-8,334.66
264+50	50.00	589.42	-	-	1,125	-	-	15,002	22,212	-	-	-7,209.49
265+00	50.00	698.59	-	-	1,193	-	-	16,195	22,212	-	-	-6,016.89

Sheet 2 Total	9,006	-	-
Total	16,195	17,769	-

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
00+00	0.00	2.12	55.52	-	-	-	-	-	-	-	-	0.00
00+10	10.00	1.10	234.14	-	1	54	-	1	67	-	-	-66.46
00+20	10.00	1.81	152.88	-	1	72	-	1	157	-	-	-155.51
00+30	10.00	106.23	2.20	-	20	29	-	21	193	-	-	-171.40
00+31.37	1.37	166.16	-	-	7	0	-	28	193	-	-	-164.57
00+40	8.63	482.45	-	-	104	-	-	132	193	-	-	-60.87
00+50	10.00	278.40	-	-	141	-	-	273	193	-	-	80.03
00+60	10.00	5.75	29.27	-	53	5	-	325	199	-	-	125.87

Total	325	160	0

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PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 2N – FRONTAGE ROAD B CUL-DE-SAC	SHEET: E

PLOT DATE: 8/5/2014 8:23:17 AM PLOT BY: DOTERA PLOT NAME: EW DETAILS PLOT SCALE: NONE

FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\8110-02-72_ew.PPTX

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
221+50	0.00	-	-	-	-	-	-	-	-	-	-	0.00
222+00	50.00	12.20	3.47	-	11	3	-	11	4	-	-	7.28
222+50	50.00	8.42	19.17	-	19	21	-	30	30	-	-	0.18
223+00	50.00	5.91	37.44	-	13	52	-	44	96	-	-	-52.07
223+50	50.00	6.00	57.12	-	11	88	-	55	205	-	-	-150.50
224+00	50.00	5.65	61.59	-	11	110	-	65	343	-	-	-277.11
224+40.46	40.46	5.03	30.14	-	8	69	-	73	428	-	-	-355.02
224+50	9.54	5.25	21.88	-	2	9	-	75	440	-	-	-364.70
224+64.1	14.10	4.12	38.61	-	2	16	-	78	460	-	-	-382.00
225+00	35.90	7.47	39.80	-	8	52	-	85	525	-	-	-439.45
225+50	50.00	49.34	30.24	-	53	65	-	138	606	-	-	-467.92
226+00	50.00	107.81	25.20	-	146	51	-	284	670	-	-	-386.57
226+50	50.00	52.30	38.24	-	148	59	-	432	744	-	-	-311.74
227+00	50.00	7.29	65.38	-	55	96	-	487	863	-	-	-376.49
227+50	50.00	0.50	97.34	-	7	151	-	494	1,052	-	-	-557.60
228+00	50.00	-	239.69	-	0	312	-	495	1,442	-	-	-947.21
228+50	50.00	-	297.90	-	-	498	-	495	2,064	-	-	-1,569.43
229+00	50.00	-	285.62	-	-	540	-	495	2,739	-	-	-2,244.80
229+50	50.00	-	273.67	-	-	518	-	495	3,387	-	-	-2,892.13
230+00	50.00	-	350.24	-	-	578	-	495	4,109	-	-	-3,614.24
230+50	50.00	-	143.52	-	-	457	-	495	4,680	-	-	-4,185.72
231+00	50.00	-	114.82	-	-	239	-	495	4,979	-	-	-4,484.73
231+50	50.00	-	77.84	-	-	178	-	495	5,202	-	-	-4,707.71
232+00	50.00	-	-	-	-	72	-	495	5,292	-	-	-4,797.80
232+50	50.00	-	-	-	-	-	-	495	5,292	-	-	-4,797.80
232+77.25	27.25	-	-	-	-	-	-	495	5,292	-	-	-4,797.80
233+00	22.75	-	-	-	-	-	-	495	5,292	-	-	-4,797.80
233+50	50.00	-	-	-	-	-	-	495	5,292	-	-	-4,797.80

Total	495	4,234	-

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PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 2N – STH 64 WB TEMP CONNECTION	SHEET:	E

PLOT DATE: 8/5/2014 8:23:17 AM PLOT BY: DOTERA PLOT NAME: EW DETAILS PLOT SCALE: NONE

FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\8110-02-72_ew.PPTX

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
183+50	0.00	17.10	-	-	-	-	-	-	-	-	-	0.00
184+00	50.00	241.19	-	-	239	-	-	239	-	-	-	239.15
184+50	50.00	2,837.09	-	-	2,850	-	-	3,089	-	-	-	3,089.41
185+00	50.00	1,500.97	-	-	4,017	-	-	7,106	-	-	-	7,106.13
185+50	50.00	1.20	3.01	-	1,391	3	-	8,497	3	-	-	8,493.55

Total	8,497	3	-

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PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 3S – STH 64 GAP	SHEET:	E

PLOT DATE: 8/5/2014 8:26:12 AM PLOT BY: DOTERA PLOT NAME: EW DETAILS PLOT SCALE: NONE

FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\8110-02-72_ew.PPTX

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS In Fill 0.80	
					Note 1	Note 3		Note 1		Note 5	Note 7	Note 8
304+75	0.00	6.26	-	-	-	-	-	-	-	-	-	0.00
305+00	25.00	306.97	-	-	145	-	-	145	-	-	-	145.01
305+25	25.00	504.55	-	-	376	-	-	521	-	-	-	520.71
305+50	25.00	513.15	-	-	471	-	-	992	-	-	-	991.87
305+75	25.00	516.00	-	-	476	-	-	1,468	-	-	-	1,468.33
306+00	25.00	516.78	-	-	478	-	-	1,946	-	-	-	1,946.46
306+25	25.00	518.03	-	-	479	-	-	2,426	-	-	-	2,425.54
306+50	25.00	520.89	-	-	481	-	-	2,907	-	-	-	2,906.52
306+75	25.00	522.94	-	-	483	-	-	3,390	-	-	-	3,389.78
307+00	25.00	522.09	-	-	484	-	-	3,874	-	-	-	3,873.59
307+25	25.00	513.68	-	-	480	-	-	4,353	-	-	-	4,353.11
307+50	25.00	365.73	-	-	407	-	-	4,760	-	-	-	4,760.25
307+75	25.00	48.41	-	-	192	-	-	4,952	-	-	-	4,951.98

Total	4,952	-	-

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PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 3S – POND E	SHEET:	E

PLOT DATE: 8/5/2014 8:26:12 AM PLOT BY: DOTERA PLOT NAME: EW DETAILS PLOT SCALE: NONE

FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\8110-02-72_ew.PPTX

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut	Expanded Fill	Expanded EBS Backfill	Reduced EBS In Fill	
								1.00	1.25	1.30	0.80	
					Note 1	Note 3		Note 1		Note 5	Note 7	Note 8
06+58	0.00	59.40	93.97	-	-	-	-	-	-	-	-	0.00
07+00	42.00	211.36	32.04	-	211	98	-	211	123	-	-	88.09
07+50	50.00	357.35	4.78	-	527	34	-	737	165	-	-	572.06
08+00	50.00	658.95	-	-	941	4	-	1,678	171	-	-	1,507.56
08+50	50.00	814.18	-	-	1,364	-	-	3,042	171	-	-	2,871.57
09+00	50.00	878.04	-	-	1,567	-	-	4,609	171	-	-	4,438.43
09+50	50.00	895.15	-	-	1,642	-	-	6,251	171	-	-	6,080.28
10+00	50.00	870.67	-	-	1,635	-	-	7,886	171	-	-	7,715.29
10+50	50.00	698.98	-	-	1,453	-	-	9,339	171	-	-	9,168.67
11+00	50.00	434.26	3.67	-	1,049	3	-	10,389	175	-	-	10,213.73
11+50	50.00	290.29	30.92	-	671	32	-	11,060	215	-	-	10,844.58
12+00	50.00	307.84	33.63	-	554	60	-	11,613	290	-	-	11,323.69
12+50	50.00	365.93	24.63	-	624	54	-	12,237	357	-	-	11,880.12
13+00	50.00	412.35	28.72	-	721	49	-	12,958	419	-	-	12,539.00
13+50	50.00	216.53	82.49	-	582	103	-	13,540	548	-	-	12,992.58
14+00	50.00	69.34	210.26	-	265	271	-	13,805	886	-	-	12,918.46
14+50	50.00	26.15	313.66	-	88	485	-	13,893	1,493	-	-	12,400.49
15+00	50.00	13.09	379.65	-	36	642	-	13,930	2,295	-	-	11,634.38
15+50	50.00	25.97	418.70	-	36	739	-	13,966	3,219	-	-	10,746.53
16+00	50.00	71.14	403.72	-	90	761	-	14,056	4,171	-	-	9,884.58
16+50	50.00	135.18	368.04	-	191	715	-	14,247	5,064	-	-	9,182.38
17+00	50.00	316.14	338.67	-	418	654	-	14,665	5,882	-	-	8,782.32
17+50	50.00	335.34	332.65	-	603	622	-	15,268	6,659	-	-	8,608.55
18+00	50.00	322.24	300.97	-	609	587	-	15,877	7,393	-	-	8,484.06
18+50	50.00	274.15	353.19	-	552	606	-	16,429	8,150	-	-	8,279.13

Total	16,429	6,520	-

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PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 3S – STH 35	SHEET:	E

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
40+50	0.00	-	-	-	-	-	-	-	-	-	-	0.00
40+68.58	18.58	12.72	15.72	-	4	5	-	4	7	-	-	-2.38
40+95.71	27.13	121.89	2.11	-	68	9	-	72	18	-	-	54.05
41+40.9	45.19	93.84	44.60	-	181	39	-	253	67	-	-	185.72
41+47.93	7.03	90.92	46.43	-	24	12	-	277	82	-	-	194.96
41+85.09	37.16	112.20	40.40	-	140	60	-	416	156	-	-	260.05
41+98.15	13.06	111.93	38.23	-	54	19	-	471	180	-	-	290.47
42+30.28	32.14	112.79	84.48	-	134	73	-	604	271	-	-	332.92
42+38.9	8.62	116.24	107.49	-	37	31	-	641	310	-	-	331.18
42+49.16	10.26	115.97	133.89	-	44	46	-	685	367	-	-	317.97
42+67.04	17.88	110.85	195.65	-	75	109	-	760	503	-	-	256.68
42+99.15	32.11	82.42	283.05	-	115	285	-	875	859	-	-	15.79
43+49.06	49.92	19.18	479.28	-	94	705	-	969	1,740	-	-	-771.14
43+99.33	50.26	0.48	765.01	-	18	1,158	-	987	3,188	-	-	-2,200.61
44+48.37	49.05	-	1,074.02	-	0	1,670	-	988	5,276	-	-	-4,288.09
45+00	51.63	-	1,197.41	-	-	2,290	-	988	8,138	-	-	-7,149.98
45+50	50.00	-	1,366.55	-	-	2,374	-	988	11,105	-	-	-10,117.52
46+00	50.00	-	1,409.72	-	-	2,571	-	988	14,318	-	-	-13,330.79
46+50	50.00	-	1,390.05	-	-	2,592	-	988	17,559	-	-	-16,571.27
47+00	50.00	-	1,290.66	-	-	2,482	-	988	20,662	-	-	-19,673.94
47+50	50.00	-	1,218.55	-	-	2,323	-	988	23,566	-	-	-22,578.12
48+00	50.00	-	1,439.87	-	-	2,462	-	988	26,643	-	-	-25,655.00
48+50	50.00	-	1,314.85	-	-	2,551	-	988	29,831	-	-	-28,843.35
49+00	50.00	-	1,309.71	-	-	2,430	-	988	32,869	-	-	-31,881.04
49+50	50.00	-	1,345.64	-	-	2,459	-	988	35,942	-	-	-34,954.36
50+00	50.00	-	1,179.63	-	-	2,338	-	988	38,865	-	-	-37,877.12
50+50	50.00	-	1,054.74	-	-	2,069	-	988	41,451	-	-	-40,463.19
51+00	50.00	-	783.89	-	-	1,702	-	988	43,579	-	-	-42,591.24
51+50	50.00	-	577.17	-	-	1,260	-	988	45,154	-	-	-44,166.54
52+00	50.00	-	363.99	-	-	871	-	988	46,243	-	-	-45,255.85
52+50	50.00	-	267.23	-	-	584	-	988	46,974	-	-	-45,986.43
53+00	50.00	11.88	54.03	-	11	297	-	999	47,346	-	-	-46,347.26
53+50	50.00	16.56	36.71	-	26	84	-	1,025	47,451	-	-	-46,425.95
54+00	50.00	15.55	-	-	30	34	-	1,055	47,493	-	-	-46,438.70
54+50	50.00	26.82	5.50	-	39	5	-	1,094	47,500	-	-	-46,405.83
54+93.99	43.99	23.95	0.42	-	41	5	-	1,135	47,506	-	-	-46,370.50

Total	1,135	38,005	-

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 3S – CTH E	SHEET:	E

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
81+00	0.00	464.28	-	-	-	-	-	-	-	-	-	0.00
81+50	50.00	247.67	-	-	659	-	-	659	-	-	-	659.21
82+00	50.00	119.84	-	-	340	-	-	999	-	-	-	999.50
82+50	50.00	38.99	-	-	147	-	-	1,147	-	-	-	1,146.56
83+00	50.00	1.46	15.25	-	37	14	-	1,184	18	-	-	1,166.36
83+50	50.00	-	35.08	-	1	47	-	1,185	76	-	-	1,109.46
83+92.68	42.68	-	39.83	-	-	59	-	1,185	150	-	-	1,035.45

Total	1,185	120	-

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PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 3S – THELEN FARM TRAIL	SHEET:	E

PLOT DATE: 8/5/2014 8:26:12 AM PLOT BY: DOTERA PLOT NAME: EW DETAILS PLOT SCALE: NONE

FILE NAME: N:\PDS\C3D\81100201\SHEETSPLAN\8110-02-72\8110-02-72_ew.PPTX

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 5	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
226+50	0.00	184.53	411.89	-	-	-	-	-	-	-	-	0.00
227+00	50.00	218.41	297.61	-	373	657	-	373	821	-	-	-448.10
227+50	50.00	322.48	165.55	-	501	429	-	874	1,357	-	-	-483.34
228+00	50.00	316.27	129.76	-	591	273	-	1,465	1,699	-	-	-233.69
228+50	50.00	410.53	187.77	-	673	294	-	2,138	2,067	-	-	71.77
229+00	50.00	398.89	161.23	-	749	323	-	2,888	2,470	-	-	417.31
229+50	50.00	379.15	178.54	-	720	315	-	3,608	2,864	-	-	744.47
230+00	50.00	287.15	148.48	-	617	303	-	4,225	3,242	-	-	982.93
230+50	50.00	208.49	194.70	-	459	318	-	4,684	3,639	-	-	1,044.65
231+00	50.00	262.74	-	-	436	180	-	5,120	3,865	-	-	1,255.62
231+50	50.00	420.07	6.10	-	632	6	-	5,753	3,872	-	-	1,880.79
232+00	50.00	512.76	124.73	-	864	121	-	6,616	4,023	-	-	2,593.10
232+50	50.00	591.92	113.54	-	1,023	221	-	7,639	4,299	-	-	3,340.17
233+00	50.00	662.91	67.97	-	1,162	168	-	8,801	4,509	-	-	4,291.96
233+50	50.00	727.05	3.99	-	1,287	67	-	10,088	4,592	-	-	5,495.67
234+00	50.00	658.55	21.90	-	1,283	24	-	11,371	4,622	-	-	6,748.67
234+33.52	33.52	684.35	11.97	-	834	21	-	12,205	4,649	-	-	7,555.91
234+50	16.48	692.41	3.43	-	420	5	-	12,625	4,655	-	-	7,970.27
235+00	50.00	725.17	-	-	1,313	3	-	13,937	4,658	-	-	9,278.88
235+50	50.00	263.02	-	-	915	-	-	14,852	4,658	-	-	10,193.87
236+00	50.00	78.72	0.17	-	316	0	-	15,169	4,659	-	-	10,510.09
236+50	50.00	43.63	-	-	113	0	-	15,282	4,659	-	-	10,623.18
237+00	50.00	75.55	-	-	110	-	-	15,392	4,659	-	-	10,733.53
237+50	50.00	188.74	-	-	245	-	-	15,637	4,659	-	-	10,978.24
238+00	50.00	242.28	-	-	399	-	-	16,036	4,659	-	-	11,377.33
238+50	50.00	231.18	-	-	438	-	-	16,475	4,659	-	-	11,815.72
239+00	50.00	231.26	-	-	428	-	-	16,903	4,659	-	-	12,243.91
239+50	50.00	210.68	-	-	409	-	-	17,312	4,659	-	-	12,653.11
240+00	50.00	176.48	0.23	-	358	0	-	17,670	4,659	-	-	13,011.33
240+50	50.00	191.79	-	-	341	0	-	18,011	4,659	-	-	13,352.07
241+00	50.00	139.90	-	-	307	-	-	18,319	4,659	-	-	13,659.19
241+50	50.00	120.75	-	-	241	-	-	18,560	4,659	-	-	13,900.54
242+00	50.00	56.88	-	-	164	-	-	18,724	4,659	-	-	14,065.01
242+50	50.00	4.03	1.49	-	56	1	-	18,781	4,661	-	-	14,119.68
242+62.35	12.35	1.23	16.27	-	1	4	-	18,782	4,666	-	-	14,115.81
243+00	37.65	1.07	68.04	-	2	59	-	18,784	4,740	-	-	14,043.93
243+50	50.00	35.58	-	-	34	63	-	18,818	4,818	-	-	13,999.11
244+00	50.00	18.11	13.23	-	50	12	-	18,867	4,834	-	-	14,033.51
244+50	50.00	-	131.39	-	17	134	-	18,884	5,001	-	-	13,882.89
245+00	50.00	-	89.95	-	-	205	-	18,884	5,257	-	-	13,626.70

Sheet 1 Total	18,884	4,206	-

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 5	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
245+50	50.00	13.46	5.68	-	12	89	-	18,896	5,368	-	-	13,528.48
246+00	50.00	14.51	0.71	-	26	6	-	18,922	5,375	-	-	13,546.98
246+50	50.00	23.46	0.28	-	35	1	-	18,958	5,377	-	-	13,580.98
247+00	50.00	5.64	1.87	-	27	2	-	18,984	5,379	-	-	13,605.44
247+50	50.00	1.84	5.11	-	7	6	-	18,991	5,387	-	-	13,604.28
248+00	50.00	0.69	11.16	-	2	15	-	18,994	5,406	-	-	13,587.80
248+50	50.00	1.22	26.75	-	2	35	-	18,995	5,450	-	-	13,545.69
249+00	50.00	5.35	19.52	-	6	43	-	19,002	5,503	-	-	13,498.22
249+50	50.00	-	191.67	-	5	196	-	19,007	5,748	-	-	13,258.74
250+00	50.00	-	287.81	-	-	444	-	19,007	6,303	-	-	12,703.79
250+50	50.00	-	223.88	-	-	474	-	19,007	6,895	-	-	12,111.55
251+00	50.00	-	105.50	-	-	305	-	19,007	7,276	-	-	11,730.32
251+50	50.00	-	11.89	-	-	109	-	19,007	7,412	-	-	11,594.46
252+00	50.00	-	51.44	-	-	59	-	19,007	7,485	-	-	11,521.16
252+50	50.00	-	141.04	-	-	178	-	19,007	7,708	-	-	11,298.38
253+00	50.00	-	115.18	-	-	237	-	19,007	8,005	-	-	11,001.82
253+50	50.00	-	34.80	-	-	139	-	19,007	8,178	-	-	10,828.23
254+00	50.00	1.59	17.76	-	1	49	-	19,008	8,239	-	-	10,768.87
254+50	50.00	-	69.80	-	1	81	-	19,009	8,340	-	-	10,669.00
255+00	50.00	0.62	6.20	-	1	70	-	19,010	8,428	-	-	10,581.62
255+50	50.00	6.93	7.85	-	7	13	-	19,017	8,445	-	-	10,572.35
256+00	50.00	8.76	5.37	-	15	12	-	19,032	8,460	-	-	10,571.57
256+50	50.00	34.42	1.91	-	40	7	-	19,072	8,468	-	-	10,603.13
256+85.85	35.85	105.78	2.36	-	93	3	-	19,165	8,472	-	-	10,692.67
257+00	14.15	7.38	-	-	30	1	-	19,194	8,473	-	-	10,721.54
257+50	50.00	11.18	-	-	17	-	-	19,211	8,473	-	-	10,738.73
258+00	50.00	12.10	-	-	22	-	-	19,233	8,473	-	-	10,760.28
258+50	50.00	5.15	0.13	-	16	0	-	19,249	8,473	-	-	10,776.10
259+00	50.00	2.80	0.38	-	7	0	-	19,256	8,473	-	-	10,782.88
259+50	50.00	1.61	0.48	-	4	1	-	19,260	8,474	-	-	10,785.98
260+00	50.00	5.01	-	-	6	0	-	19,267	8,475	-	-	10,791.55
260+50	50.00	4.68	-	-	9	-	-	19,276	8,475	-	-	10,800.51
261+00	50.00	1.98	2.12	-	6	2	-	19,282	8,477	-	-	10,804.22
261+50	50.00	2.76	3.73	-	4	5	-	19,286	8,484	-	-	10,801.84
262+00	50.00	32.11	-	-	32	3	-	19,318	8,489	-	-	10,829.82
262+50	50.00	6.62	27.64	-	36	26	-	19,354	8,521	-	-	10,833.68
263+00	50.00	8.46	68.99	-	14	89	-	19,368	8,632	-	-	10,735.79
263+50	50.00	11.99	62.69	-	19	122	-	19,387	8,785	-	-	10,602.32
264+00	50.00	6.75	66.26	-	17	119	-	19,404	8,934	-	-	10,470.42
264+50	50.00	1.51	68.70	-	8	125	-	19,412	9,090	-	-	10,321.86
265+00	50.00	0.47	54.62	-	2	114	-	19,414	9,233	-	-	10,180.97
265+50	50.00	17.10	0.18	-	16	51	-	19,430	9,296	-	-	10,133.82
266+00	50.00	6.06	45.28	-	21	42	-	19,452	9,349	-	-	10,102.66
266+50	50.00	11.83	51.86	-	17	90	-	19,468	9,461	-	-	10,006.79
266+94.28	44.28	17.19	57.33	-	24	90	-	19,492	9,573	-	-	9,918.68
Sheet 2 Total					608	3,453	-					

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Expanded EBS Backfill 1.30 Note 5	Cumulative Vol (CY) Reduced EBS In Fill 0.80 Note 7	Mass Ordinate Note 8
267+00	5.72	17.35	59.10	-	4	12	-	19,496	9,589	-	-	9,906.91
267+50	50.00	12.76	94.45	-	28	142	-	19,524	9,767	-	-	9,757.07
268+00	50.00	17.96	159.43	-	28	235	-	19,552	10,060	-	-	9,491.67
268+50	50.00	29.44	253.07	-	44	382	-	19,596	10,538	-	-	9,058.13
269+00	50.00	33.56	354.49	-	58	563	-	19,654	11,241	-	-	8,413.27
269+50	50.00	41.10	402.81	-	69	701	-	19,723	12,117	-	-	7,605.90
270+00	50.00	171.74	51.31	-	197	420	-	19,920	12,643	-	-	7,277.37
270+50	50.00	79.62	350.35	-	233	372	-	20,153	13,108	-	-	7,045.23
271+00	50.00	109.09	317.34	-	175	618	-	20,328	13,881	-	-	6,447.17
271+11.65	11.65	117.01	284.50	-	49	130	-	20,377	14,043	-	-	6,333.64
271+50	38.35	143.87	190.57	-	185	337	-	20,562	14,465	-	-	6,097.18
272+00	50.00	241.67	-	-	357	176	-	20,919	14,685	-	-	6,233.59
272+50	50.00	243.45	2.64	-	449	2	-	21,368	14,688	-	-	6,679.72
273+00	50.00	268.49	36.32	-	474	36	-	21,842	14,734	-	-	7,108.64
273+50	50.00	320.62	120.11	-	545	145	-	22,388	14,915	-	-	7,473.04
274+00	50.00	387.34	107.53	-	656	211	-	23,043	15,178	-	-	7,865.08
274+50	50.00	458.68	74.56	-	783	169	-	23,826	15,389	-	-	8,437.68
275+00	50.00	526.33	0.13	-	912	69	-	24,739	15,475	-	-	9,263.28
275+50	50.00	593.20	-	-	1,037	0	-	25,775	15,475	-	-	10,299.73
276+00	50.00	644.61	-	-	1,146	-	-	26,921	15,475	-	-	11,445.85
276+50	50.00	682.23	0.53	-	1,229	0	-	28,150	15,476	-	-	12,673.79
277+00	50.00	862.83	-	-	1,431	0	-	29,580	15,477	-	-	14,103.78
277+50	50.00	951.33	-	-	1,680	-	-	31,260	15,477	-	-	15,783.56
278+00	50.00	1,135.31	-	-	1,932	-	-	33,192	15,477	-	-	17,715.63
278+50	50.00	1,454.83	-	-	2,398	-	-	35,590	15,477	-	-	20,113.91
279+00	50.00	1,405.26	-	-	2,648	-	-	38,239	15,477	-	-	22,762.14
279+50	50.00	1,354.62	-	-	2,555	-	-	40,794	15,477	-	-	25,317.59
280+00	50.00	1,300.61	-	-	2,459	-	-	43,253	15,477	-	-	27,776.14
280+50	50.00	1,202.35	-	-	2,318	-	-	45,570	15,477	-	-	30,093.71
281+00	50.00	1,152.45	-	-	2,180	-	-	47,751	15,477	-	-	32,274.08
281+50	50.00	1,119.85	-	-	2,104	-	-	49,855	15,477	-	-	34,378.06
282+00	50.00	1,126.31	0.30	-	2,080	0	-	51,934	15,477	-	-	36,457.49
282+50	50.00	1,113.13	-	-	2,074	0	-	54,008	15,477	-	-	38,530.69
283+00	50.00	1,027.39	-	-	1,982	-	-	55,990	15,477	-	-	40,512.65
283+50	50.00	1,013.80	-	-	1,890	-	-	57,880	15,477	-	-	42,402.65
284+00	50.00	1,009.31	-	-	1,873	-	-	59,753	15,477	-	-	44,275.89
284+50	50.00	1,003.08	-	-	1,863	-	-	61,617	15,477	-	-	46,139.22
285+00	50.00	1,001.48	-	-	1,856	-	-	63,473	15,477	-	-	47,995.30
285+50	50.00	994.73	-	-	1,848	-	-	65,321	15,477	-	-	49,843.64
286+00	50.00	975.16	-	-	1,824	-	-	67,145	15,477	-	-	51,667.61
286+50	50.00	954.55	-	-	1,787	-	-	68,932	15,477	-	-	53,454.38
287+00	50.00	951.60	-	-	1,765	-	-	70,697	15,477	-	-	55,219.33
287+50	50.00	948.28	-	-	1,759	-	-	72,456	15,477	-	-	56,978.47
288+00	50.00	961.49	-	-	1,768	-	-	74,224	15,477	-	-	58,746.77
288+50	50.00	917.32	-	-	1,740	-	-	75,964	15,477	-	-	60,486.41
Sheet 3 Total					56,472	4,723	-					

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut Note 1	Fill Note 3	EBS	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded EBS Backfill 1.30 Note 5	Reduced EBS In Fill 0.80 Note 7	Note 8
289+00	50.00	885.83	-	-	1,670	-	-	77,633	15,477	-	-	62,155.98
289+50	50.00	846.62	-	-	1,604	-	-	79,237	15,477	-	-	63,760.10
290+00	50.00	805.73	-	-	1,530	-	-	80,767	15,477	-	-	65,290.06
290+50	50.00	747.43	-	-	1,438	-	-	82,205	15,477	-	-	66,728.17
291+00	50.00	692.56	-	-	1,333	-	-	83,539	15,477	-	-	68,061.49
291+50	50.00	642.15	-	-	1,236	-	-	84,775	15,477	-	-	69,297.33
292+00	50.00	601.33	-	-	1,151	-	-	85,926	15,477	-	-	70,448.71
292+50	50.00	579.96	-	-	1,094	-	-	87,020	15,477	-	-	71,542.50
293+00	50.00	549.91	-	-	1,046	-	-	88,066	15,477	-	-	72,588.68
293+50	50.00	524.53	-	-	995	-	-	89,061	15,477	-	-	73,583.53
294+00	50.00	498.78	-	-	948	-	-	90,008	15,477	-	-	74,531.05
294+50	50.00	501.34	-	-	926	-	-	90,934	15,477	-	-	75,457.09
295+00	50.00	554.62	-	-	978	-	-	91,912	15,477	-	-	76,434.84
295+50	50.00	609.64	-	-	1,078	-	-	92,990	15,477	-	-	77,512.86
296+00	50.00	636.29	-	-	1,154	-	-	94,144	15,477	-	-	78,666.49
296+50	50.00	627.35	-	-	1,170	-	-	95,314	15,477	-	-	79,836.54
297+00	50.00	589.89	-	-	1,127	-	-	96,441	15,477	-	-	80,963.62
297+50	50.00	524.06	-	-	1,031	-	-	97,472	15,477	-	-	81,995.06
298+00	50.00	450.07	-	-	902	-	-	98,374	15,477	-	-	82,897.03
298+50	50.00	348.00	-	-	739	-	-	99,113	15,477	-	-	83,635.98
299+00	50.00	264.22	-	-	567	-	-	99,680	15,477	-	-	84,202.85
299+50	50.00	240.83	0.20	-	468	0	-	100,148	15,478	-	-	84,670.26
300+00	50.00	217.40	0.51	-	424	1	-	100,572	15,478	-	-	85,093.73
300+50	50.00	197.68	-	-	384	0	-	100,956	15,479	-	-	85,477.47
301+00	50.00	174.70	0.27	-	345	0	-	101,301	15,479	-	-	85,821.96
301+50	50.00	153.10	-	-	304	0	-	101,605	15,480	-	-	86,125.16
302+00	50.00	147.83	-	-	279	-	-	101,883	15,480	-	-	86,403.81
302+50	50.00	141.02	-	-	267	-	-	102,151	15,480	-	-	86,671.26
303+00	50.00	132.42	-	-	253	-	-	102,404	15,480	-	-	86,924.44
303+50	50.00	127.00	-	-	240	-	-	102,644	15,480	-	-	87,164.65
304+00	50.00	134.36	-	-	242	-	-	102,886	15,480	-	-	87,406.66
304+50	50.00	122.44	-	-	238	-	-	103,124	15,480	-	-	87,644.44

Sheet 4 Total	27,160	2	-
Total	103,124	12,384	0

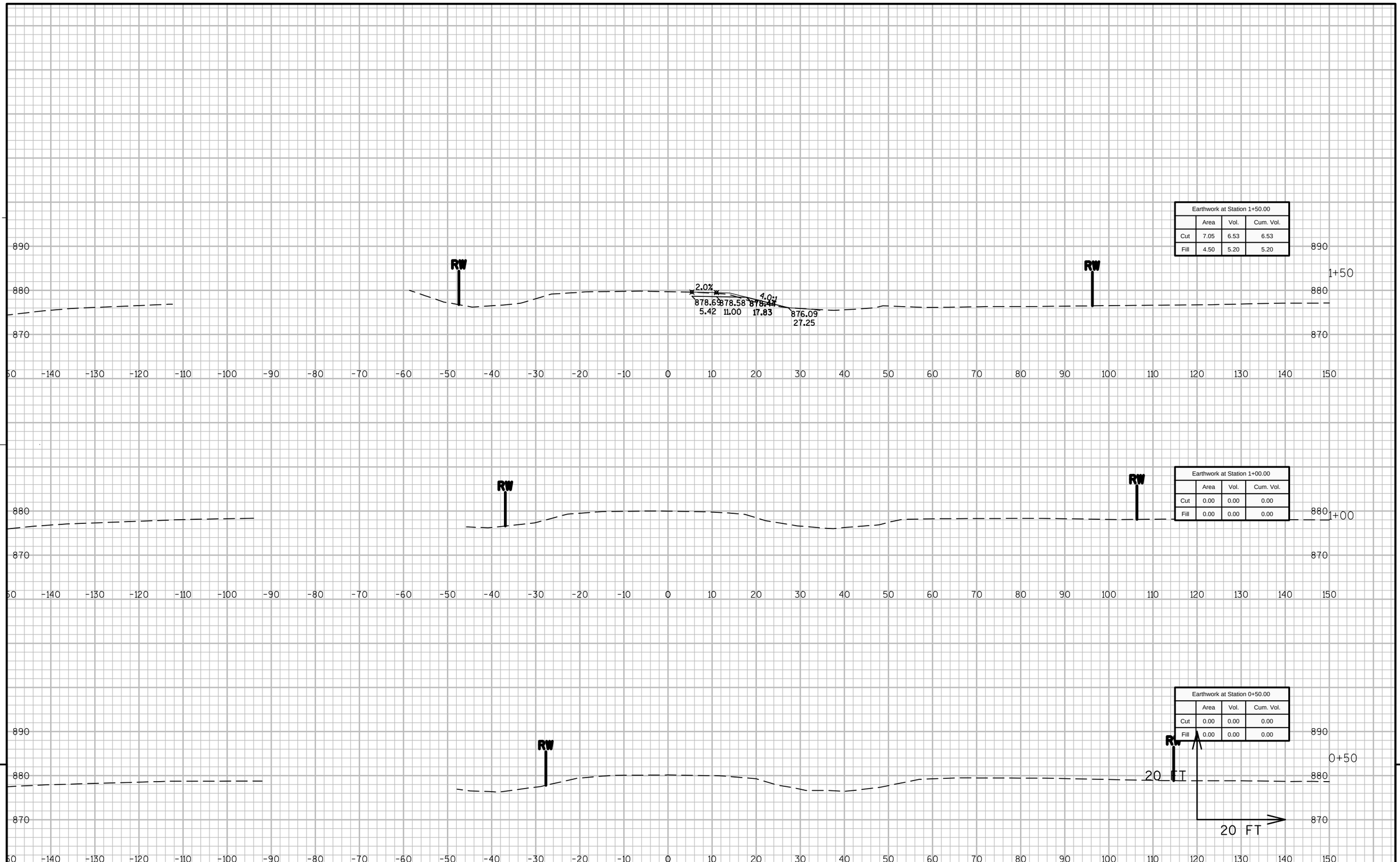
STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS In Fill 0.80	
					Note 1	Note 3		Note 1		Note 5	Note 7	Note 8
233+35.1	0.00	21.35	0.59	-	-	-	-	-	-	-	-	0.00
233+50	14.90	17.72	2.22	-	11	1	-	11	1	-	-	9.81
234+00	50.00	21.49	19.40	-	36	20	-	47	26	-	-	21.09
234+50	50.00	1.03	51.89	-	21	66	-	68	109	-	-	-40.58
235+00	50.00	-	64.97	-	1	108	-	69	244	-	-	-174.88
235+50	50.00	68.06	40.17	-	63	97	-	132	365	-	-	-233.54
236+00	50.00	28.92	26.85	-	90	62	-	222	443	-	-	-221.30
236+50	50.00	12.00	40.70	-	38	63	-	260	521	-	-	-261.59
237+00	50.00	3.15	35.97	-	14	71	-	274	610	-	-	-336.30
237+50	50.00	20.80	42.69	-	22	73	-	296	701	-	-	-405.17
238+00	50.00	44.12	36.46	-	60	73	-	356	793	-	-	-436.67
238+50	50.00	52.18	23.29	-	89	55	-	445	862	-	-	-416.66
239+00	50.00	64.76	14.28	-	108	35	-	553	905	-	-	-351.86
239+50	50.00	80.42	8.47	-	134	21	-	688	932	-	-	-243.77
240+00	50.00	95.39	3.40	-	163	11	-	851	945	-	-	-94.72
240+19.11	19.11	55.89	1.48	-	54	2	-	904	947	-	-	-43.34
257+00	1680.89	89.64	2.59	-	4,530	126	-	5,434	1,105	-	-	4,328.63
257+50	50.00	91.33	4.25	-	168	6	-	5,602	1,113	-	-	4,488.28
258+00	50.00	76.99	4.25	-	156	8	-	5,758	1,123	-	-	4,634.29
258+50	50.00	62.44	4.80	-	129	8	-	5,887	1,134	-	-	4,752.92
259+00	50.00	60.36	4.88	-	114	9	-	6,000	1,145	-	-	4,855.41
259+50	50.00	62.23	1.87	-	114	6	-	6,114	1,153	-	-	4,961.11
260+00	50.00	62.31	0.24	-	115	2	-	6,229	1,155	-	-	5,073.97
260+50	50.00	66.12	-	-	119	0	-	6,348	1,155	-	-	5,192.61
261+00	50.00	63.34	6.12	-	120	6	-	6,468	1,163	-	-	5,305.40
261+50	50.00	63.84	22.89	-	118	27	-	6,586	1,196	-	-	5,389.59
262+00	50.00	72.08	38.41	-	126	57	-	6,712	1,267	-	-	5,444.50
262+50	50.00	66.51	58.54	-	128	90	-	6,840	1,379	-	-	5,460.62
263+00	50.00	59.88	78.71	-	117	127	-	6,957	1,538	-	-	5,418.79
263+50	50.00	58.61	86.31	-	110	153	-	7,067	1,729	-	-	5,337.51
264+00	50.00	60.43	76.86	-	110	151	-	7,177	1,918	-	-	5,258.88
264+50	50.00	52.15	68.16	-	104	134	-	7,281	2,086	-	-	5,195.27
265+00	50.00	51.84	67.98	-	96	126	-	7,377	2,243	-	-	5,134.00
265+50	50.00	47.09	70.76	-	92	128	-	7,469	2,404	-	-	5,065.03
266+00	50.00	80.89	78.99	-	119	139	-	7,588	2,577	-	-	5,010.21
266+50	50.00	76.86	2.05	-	146	75	-	7,734	2,671	-	-	5,062.47
267+00	50.00	54.32	92.34	-	121	87	-	7,855	2,780	-	-	5,074.68
267+50	50.00	-	283.89	-	50	348	-	7,905	3,216	-	-	4,689.52
268+00	50.00	-	431.82	-	-	663	-	7,905	4,044	-	-	3,861.16
268+50	50.00	-	454.01	-	-	820	-	7,905	5,069	-	-	2,835.90

Sheet 1 Total	7,905	4,056	-

PROJECT: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	EARTHWORK DETAILS: STAGE 3N – FRONTAGE ROAD C	SHEET:	E

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) EBS	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.25	Cumulative Vol (CY) Expanded EBS Backfill 1.30	Cumulative Vol (CY) Reduced EBS In Fill 0.80	Mass Ordinate
					Note 1	Note 3		Note 1		Note 5	Note 7	Note 8
269+00	50.00	-	401.07	-	-	792	-	7,905	6,059	-	-	1,846.23
269+50	50.00	78.52	191.35	-	73	549	-	7,978	6,745	-	-	1,233.25
270+00	50.00	199.13	106.15	-	257	275	-	8,235	7,089	-	-	1,146.00
270+50	50.00	53.99	6.14	-	234	104	-	8,469	7,219	-	-	1,250.41
271+00	50.00	48.66	0.17	-	95	6	-	8,565	7,226	-	-	1,338.15
271+50	50.00	37.82	36.17	-	80	34	-	8,645	7,268	-	-	1,376.17
272+00	50.00	27.45	58.94	-	60	88	-	8,705	7,379	-	-	1,326.52
272+50	50.00	30.16	26.39	-	53	79	-	8,758	7,477	-	-	1,281.10
272+66.9	16.90	32.41	24.63	-	20	16	-	8,778	7,497	-	-	1,280.73

Sheet 2 Total	873	1,942	-
TOTAL	8,778	5,998	-

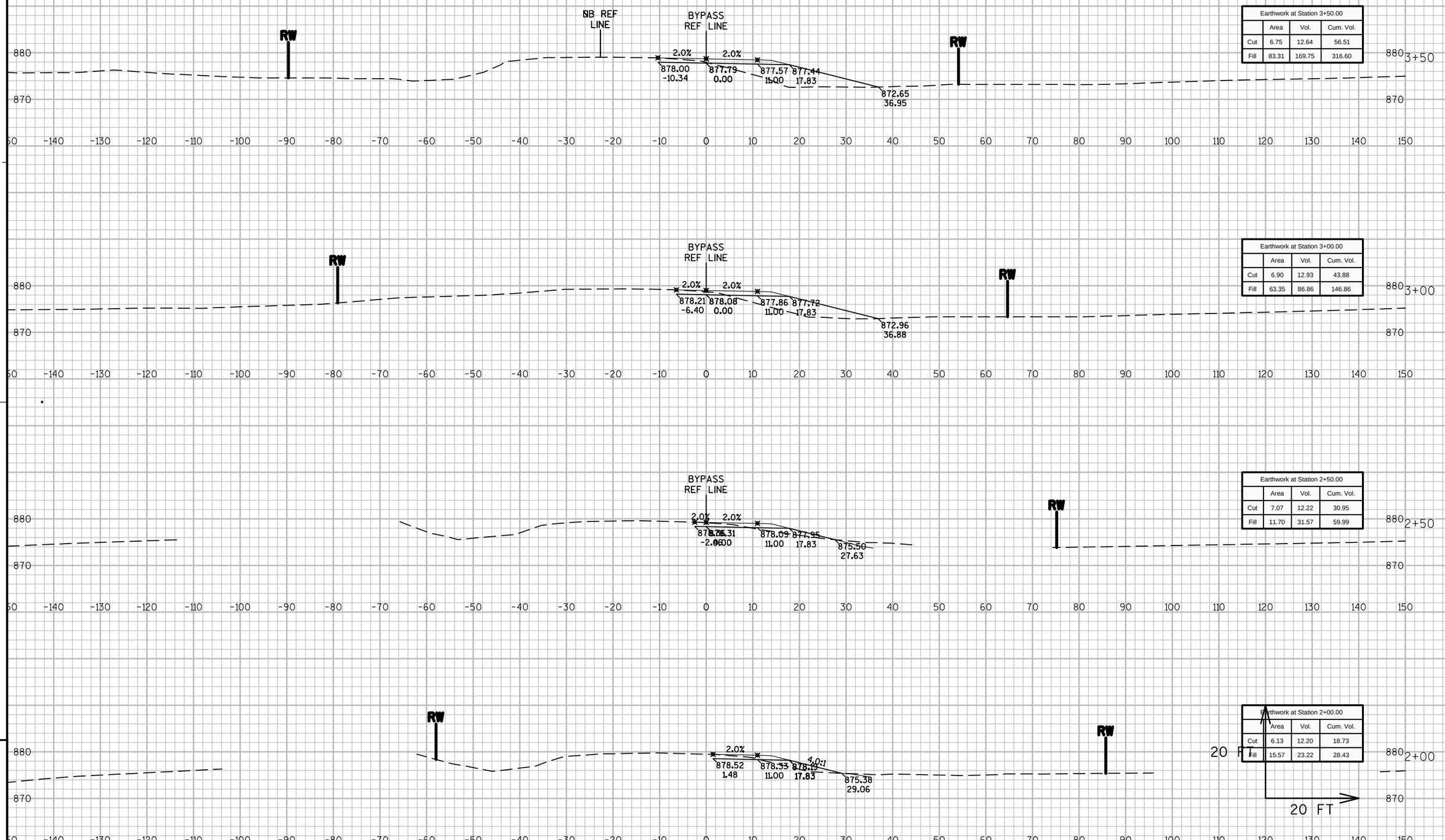


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 738	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (72)

PLOT DATE : 9/26/2014 2:35 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

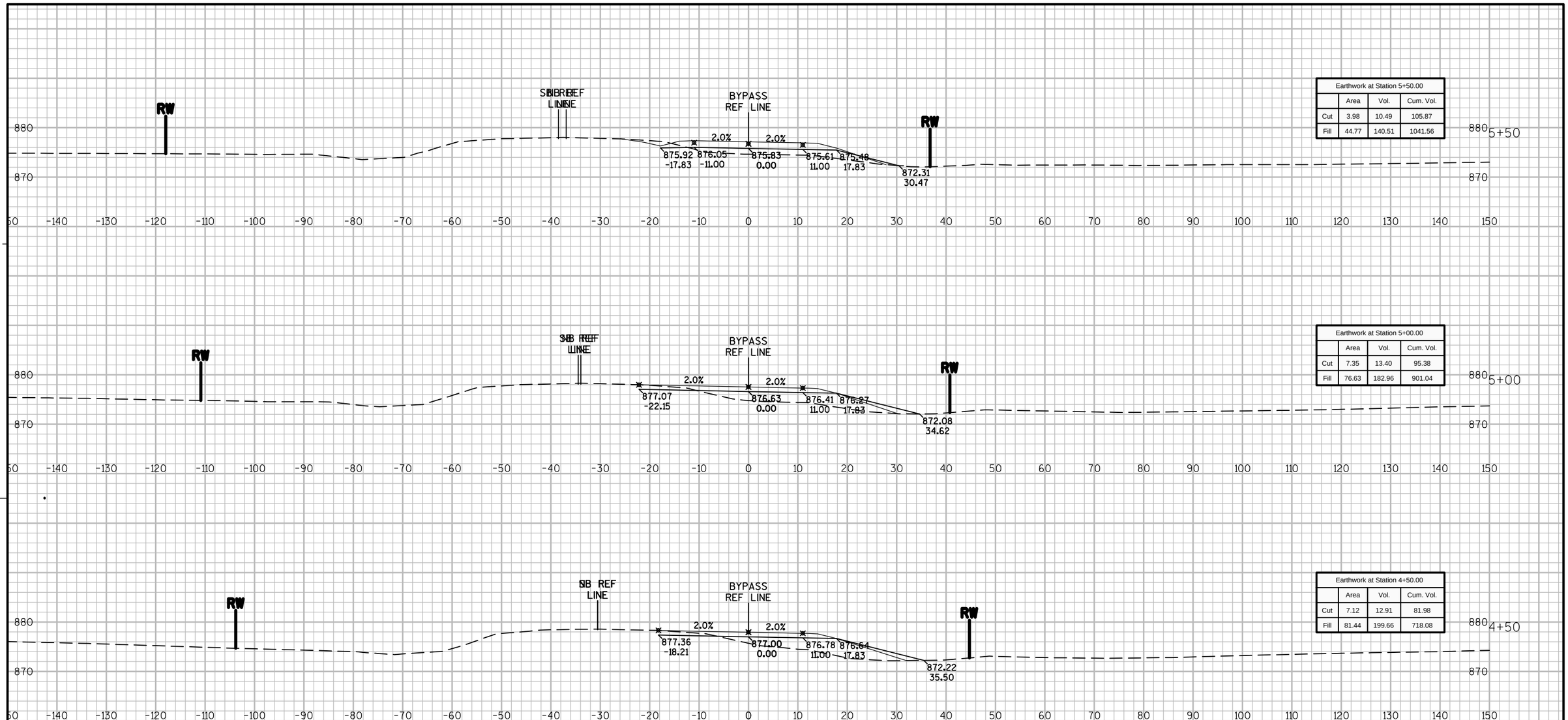
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 739	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (73)

PLOT DATE : 9/26/2014 2:35 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

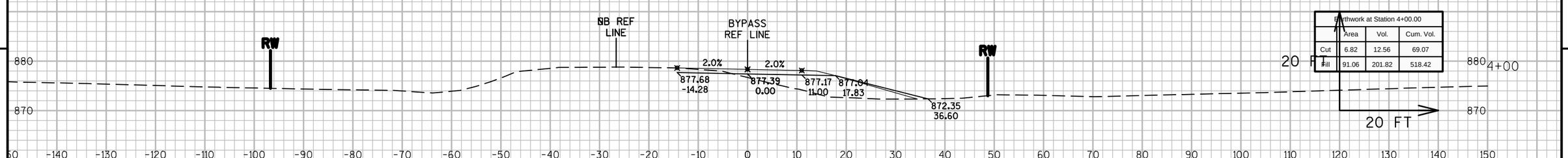
WISDOT/CADDS SHEET 49



Earthwork at Station 5+50.00			
	Area	Vol.	Cum. Vol.
Cut	3.98	10.49	105.87
Fill	44.77	140.51	1041.56

Earthwork at Station 5+00.00			
	Area	Vol.	Cum. Vol.
Cut	7.35	13.40	95.38
Fill	76.63	182.96	901.04

Earthwork at Station 4+50.00			
	Area	Vol.	Cum. Vol.
Cut	7.12	12.91	81.98
Fill	81.44	199.66	718.08



Earthwork at Station 4+00.00			
	Area	Vol.	Cum. Vol.
Cut	6.82	12.56	69.07
Fill	91.06	201.82	518.42

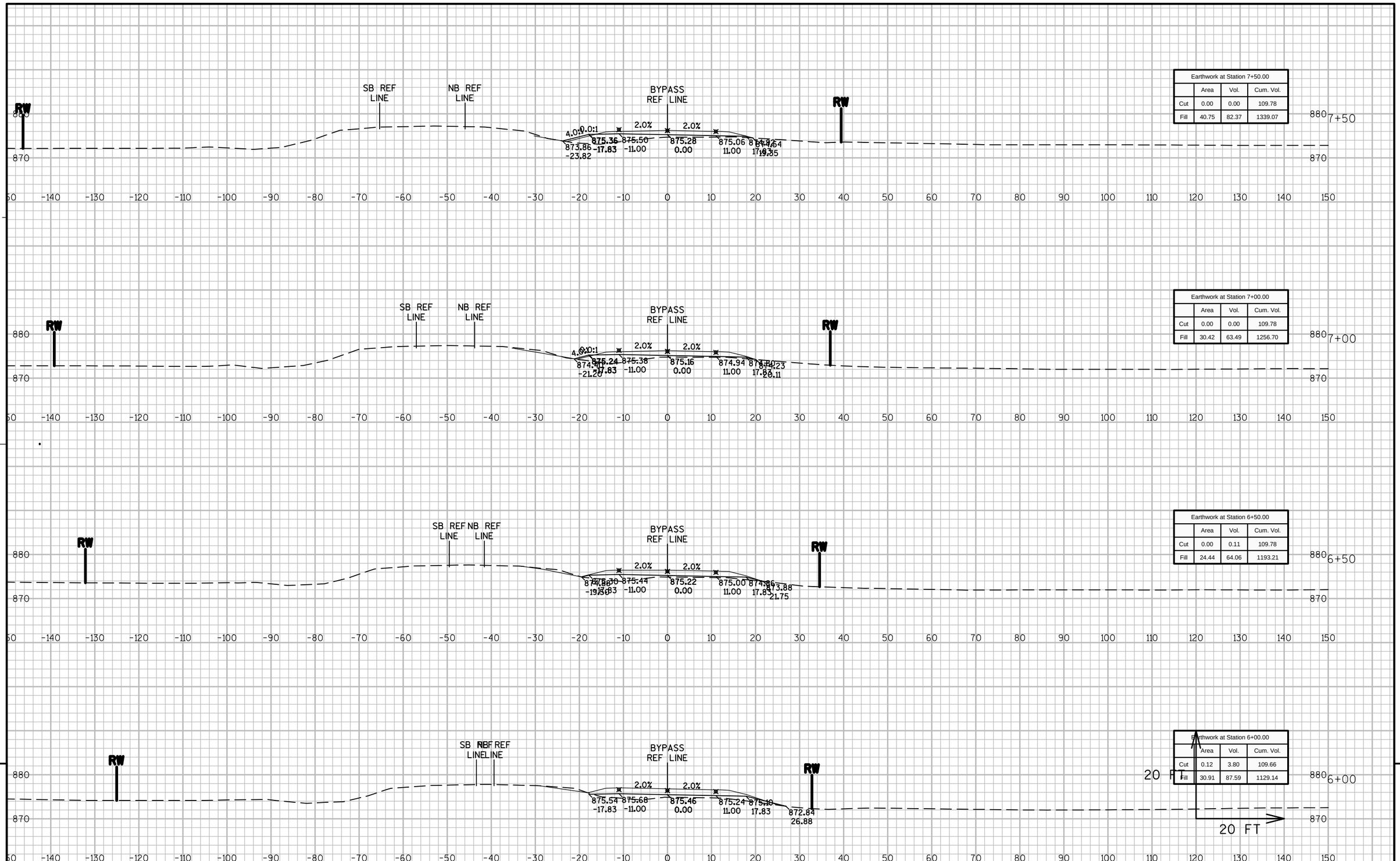
9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 740	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (74)

PLOT DATE : 9/26/2014 2:35 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



9

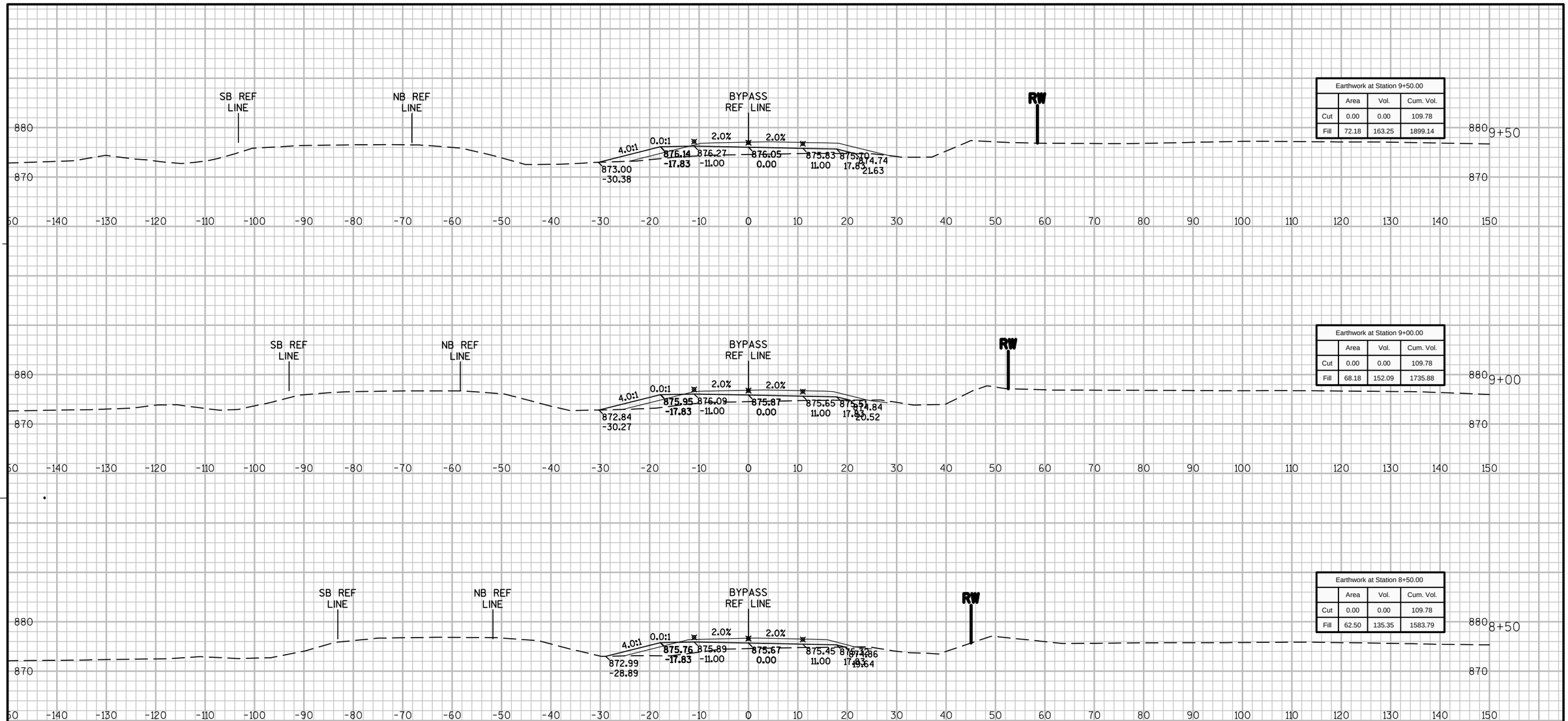
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 741	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (75)

PLOT DATE : 9/26/2014 2:35 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

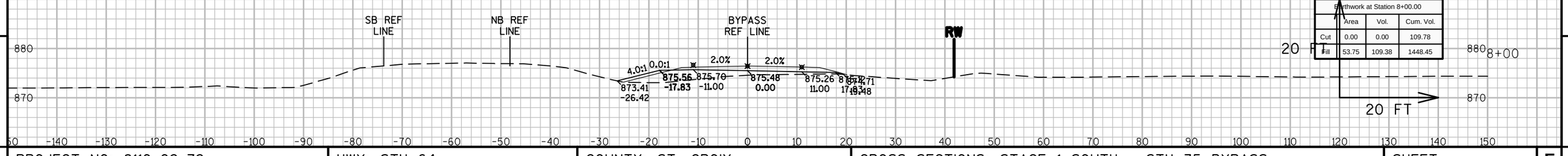
WISDOT/CADDS SHEET 49



Earthwork at Station 9+50.00			
	Area	Vol.	Cum. Vol.
Cut	0.00	0.00	109.78
Fill	72.18	163.25	1899.14

Earthwork at Station 9+00.00			
	Area	Vol.	Cum. Vol.
Cut	0.00	0.00	109.78
Fill	68.18	152.09	1735.88

Earthwork at Station 8+50.00			
	Area	Vol.	Cum. Vol.
Cut	0.00	0.00	109.78
Fill	62.50	135.35	1583.79

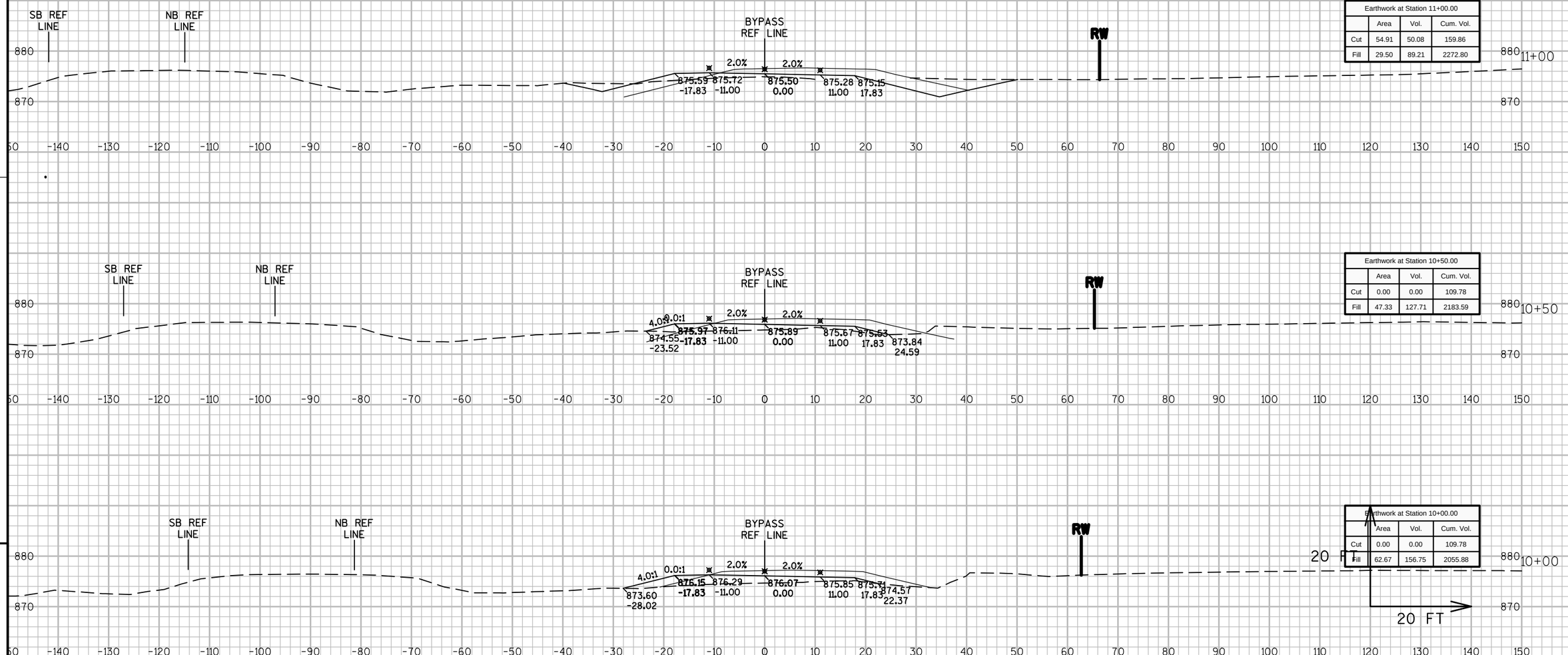


Earthwork at Station 8+00.00			
	Area	Vol.	Cum. Vol.
Cut	0.00	0.00	109.78
Fill	53.75	109.38	1448.45

9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 742 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (76)
PLOT DATE : 9/26/2014 2:35 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



Earthwork at Station 11+00.00			
	Area	Vol.	Cum. Vol.
Cut	54.91	50.08	159.86
Fill	29.50	89.21	2272.80

Earthwork at Station 10+50.00			
	Area	Vol.	Cum. Vol.
Cut	0.00	0.00	109.78
Fill	47.33	127.71	2183.59

Earthwork at Station 10+00.00			
	Area	Vol.	Cum. Vol.
Cut	0.00	0.00	109.78
Fill	62.67	156.75	2055.88

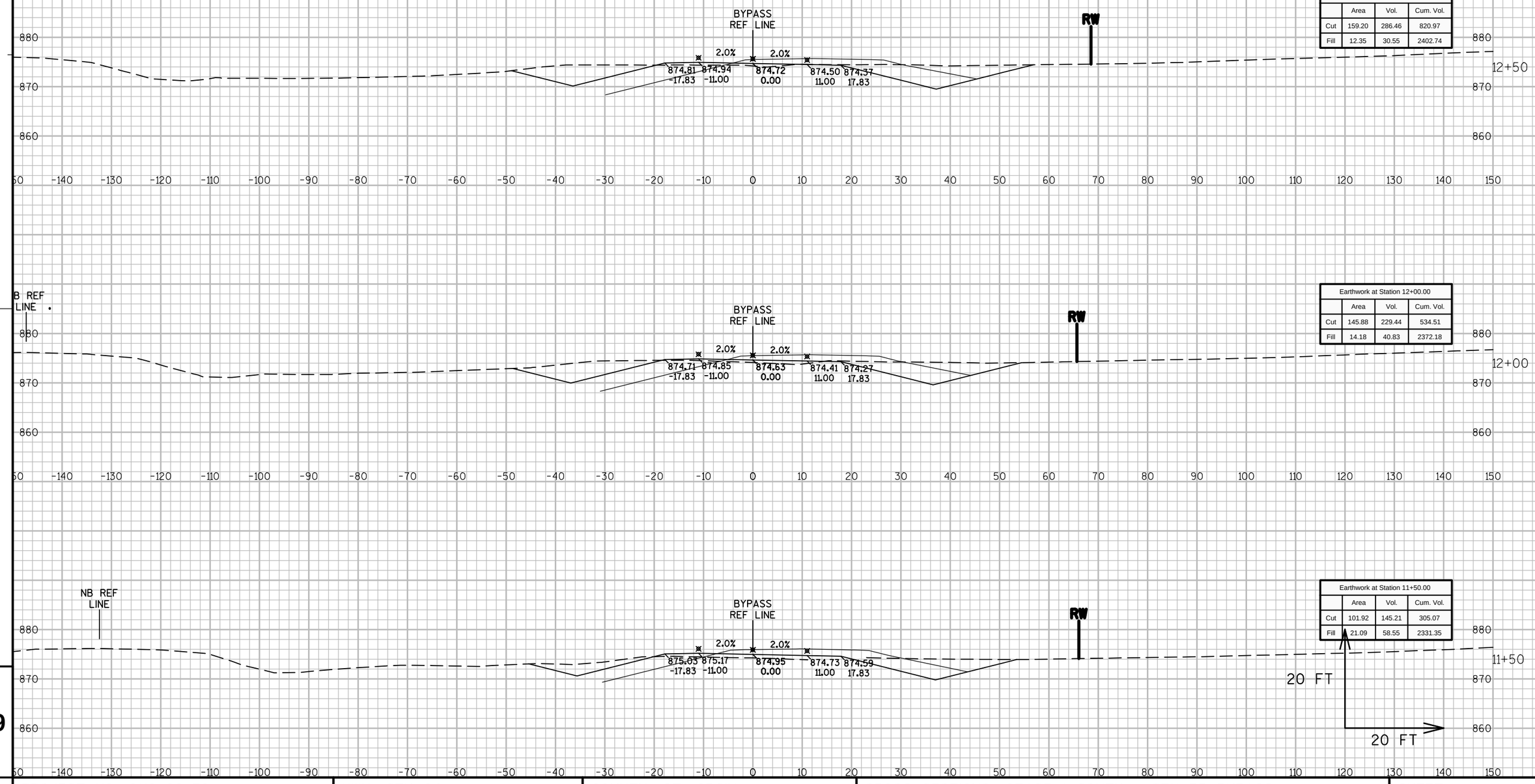
9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 743	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (77)

PLOT DATE : 9/26/2014 2:36 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



Earthwork at Station 12+50.00			
	Area	Vol.	Cum. Vol.
Cut	159.20	286.46	820.97
Fill	12.35	30.55	2402.74

Earthwork at Station 12+00.00			
	Area	Vol.	Cum. Vol.
Cut	145.88	229.44	534.51
Fill	14.18	40.83	2372.18

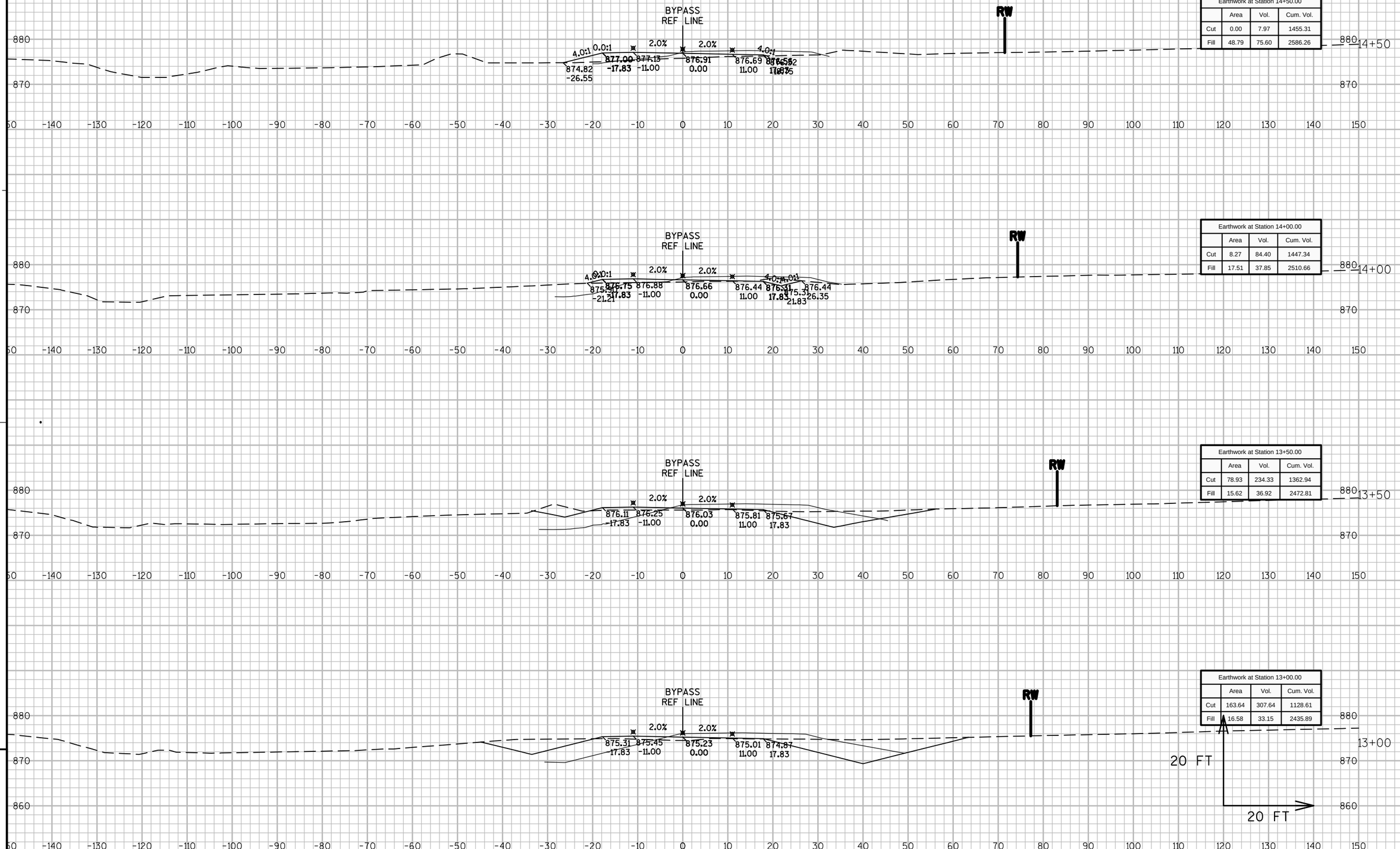
Earthwork at Station 11+50.00			
	Area	Vol.	Cum. Vol.
Cut	101.92	145.21	305.07
Fill	21.09	58.55	2331.35

9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 744	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (78)
PLOT DATE : 9/26/2014 2:36 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 14+50.00			
	Area	Vol.	Cum. Vol.
Cut	0.00	7.97	1455.31
Fill	48.79	75.60	2586.26

Earthwork at Station 14+00.00			
	Area	Vol.	Cum. Vol.
Cut	8.27	84.40	1447.34
Fill	17.51	37.85	2510.66

Earthwork at Station 13+50.00			
	Area	Vol.	Cum. Vol.
Cut	78.93	234.33	1362.94
Fill	15.62	36.92	2472.81

Earthwork at Station 13+00.00			
	Area	Vol.	Cum. Vol.
Cut	163.64	307.64	1128.61
Fill	16.58	33.15	2435.89

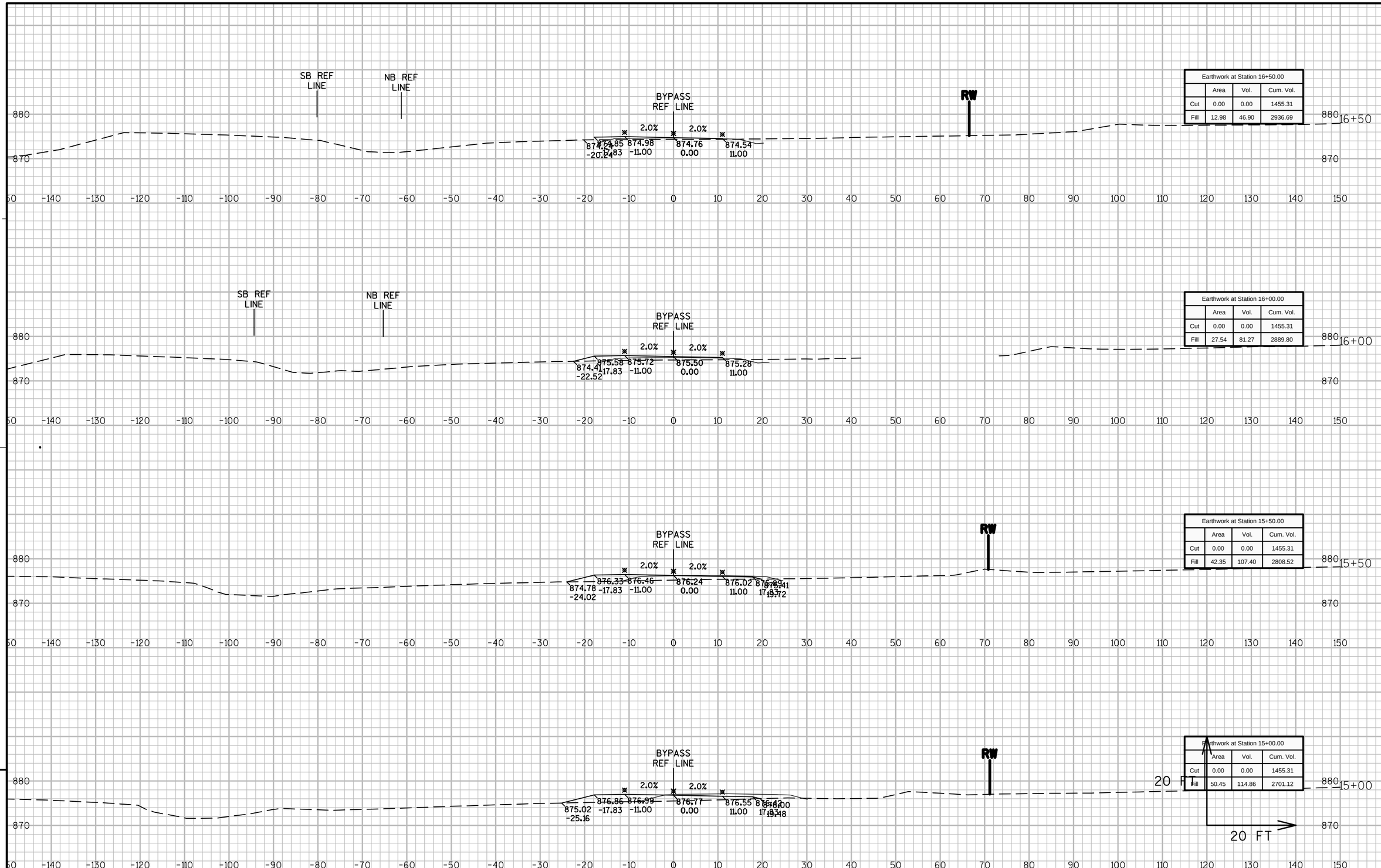
9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 745	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (79)

PLOT DATE : 9/26/2014 2:36 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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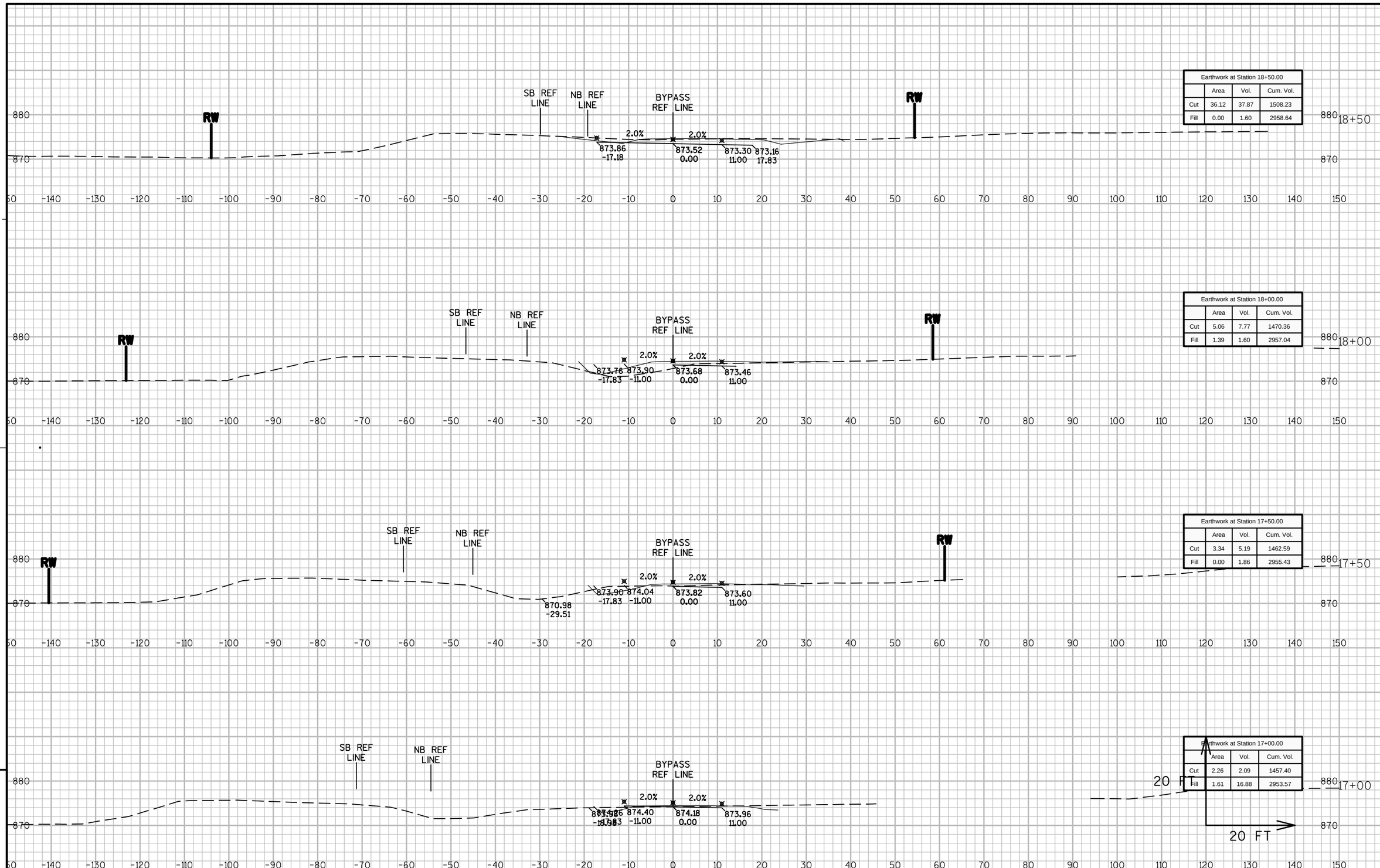
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 746	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (80)

PLOT DATE : 9/26/2014 2:36 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 18+50.00			
	Area	Vol.	Cum. Vol.
Cut	36.12	37.87	1508.23
Fill	0.00	1.60	2958.64

Earthwork at Station 18+00.00			
	Area	Vol.	Cum. Vol.
Cut	5.06	7.77	1470.36
Fill	1.39	1.60	2957.04

Earthwork at Station 17+50.00			
	Area	Vol.	Cum. Vol.
Cut	3.34	5.19	1462.59
Fill	0.00	1.86	2955.43

Earthwork at Station 17+00.00			
	Area	Vol.	Cum. Vol.
Cut	2.26	2.09	1457.40
Fill	1.61	16.88	2953.57

9

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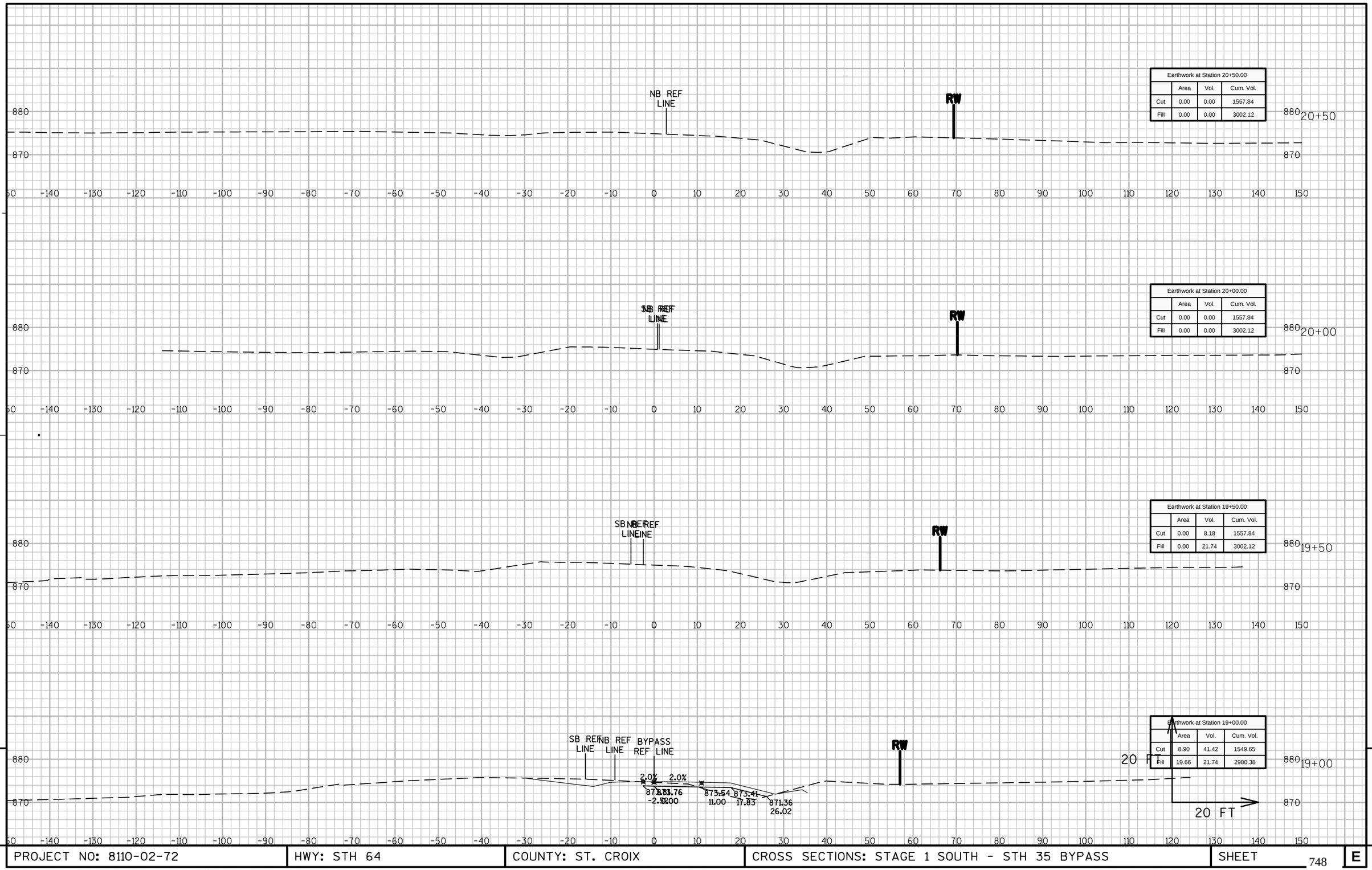
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 747	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (81)

PLOT DATE : 9/26/2014 2:36 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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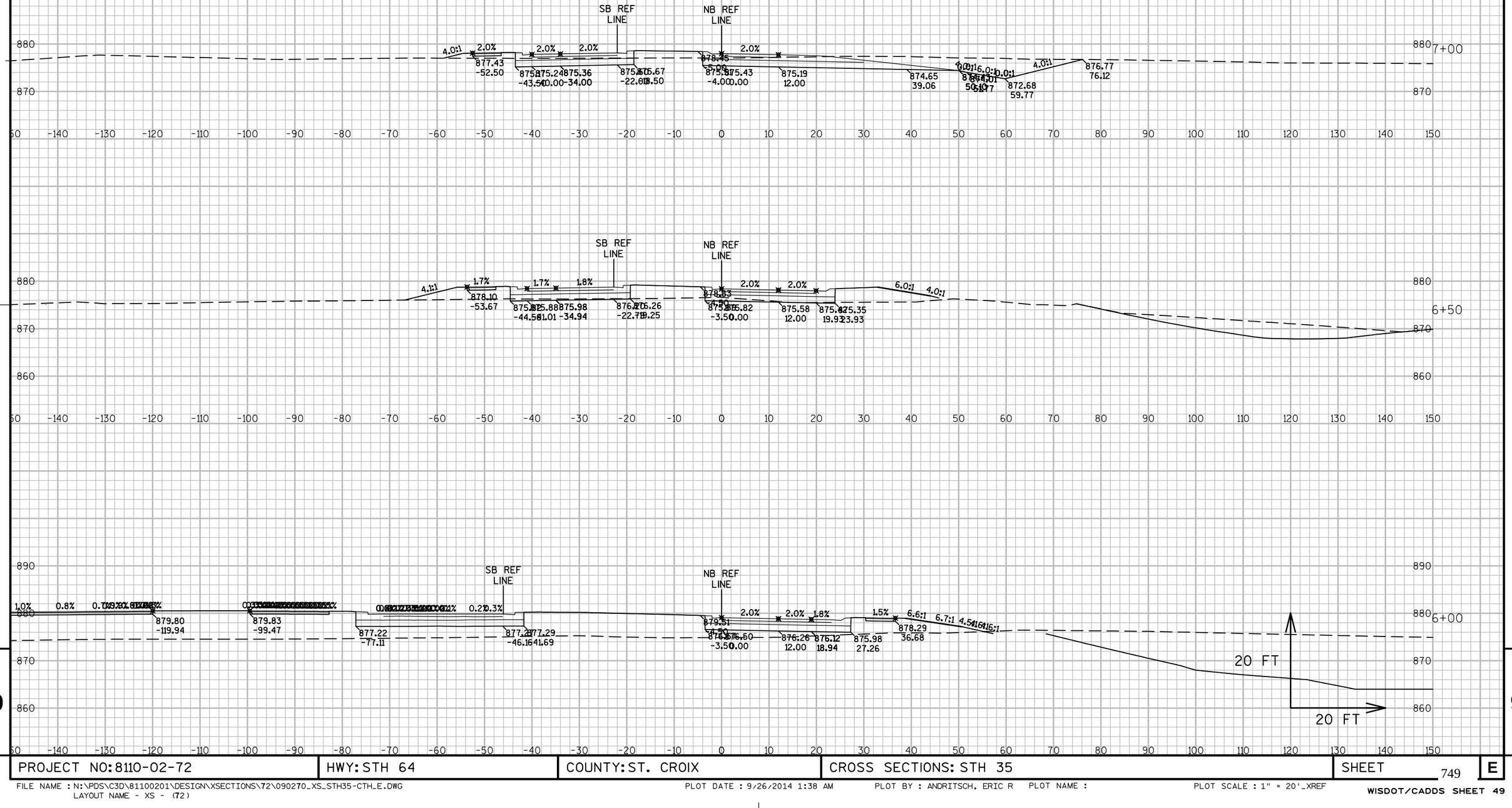
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 1 SOUTH - STH 35 BYPASS	SHEET 748	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S1 STH35 BYPASS.DWG
LAYOUT NAME - XS - (82)

PLOT DATE : 9/26/2014 2:36 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

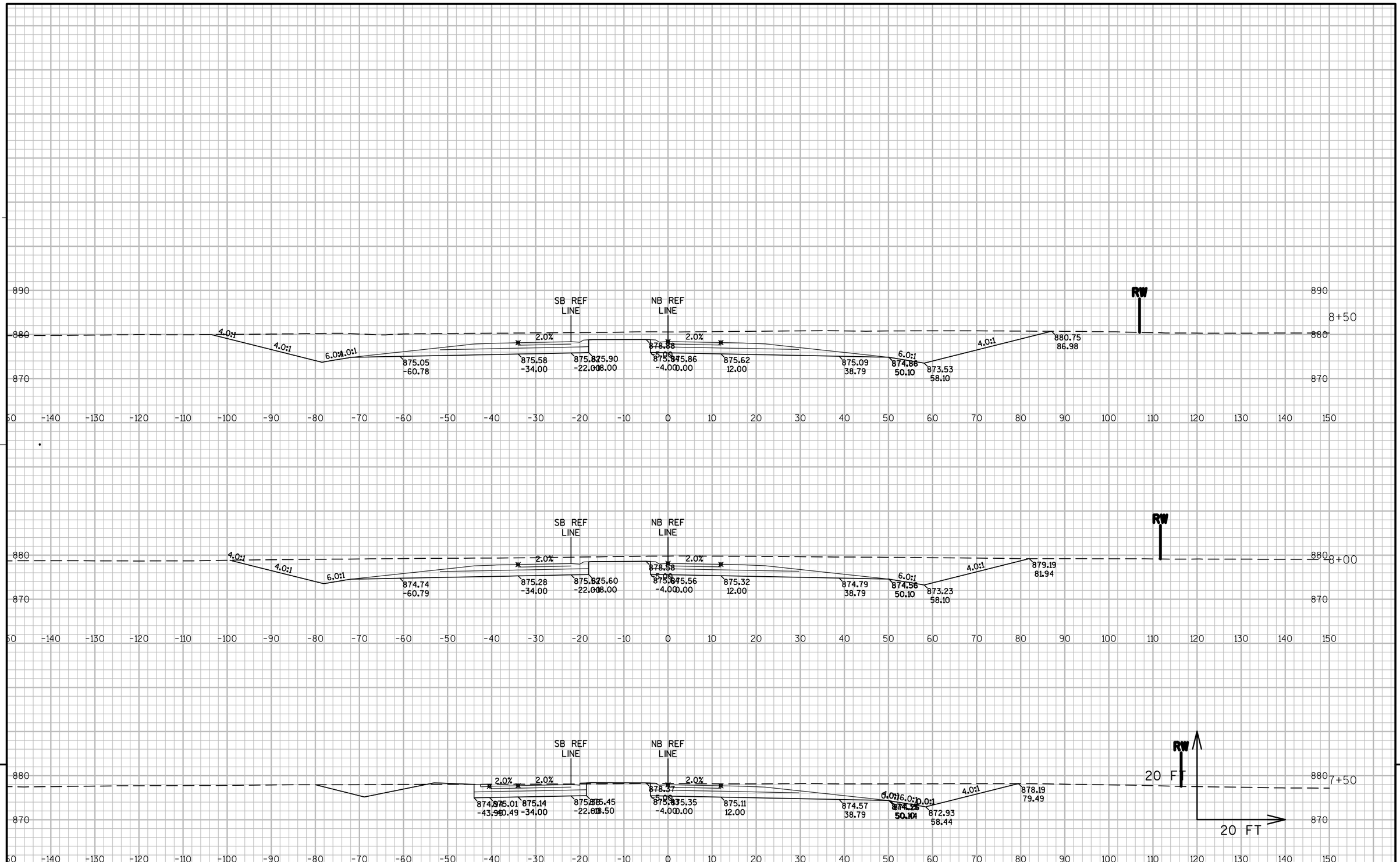
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 749	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (72)

PLOT DATE : 9/26/2014 1:38 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

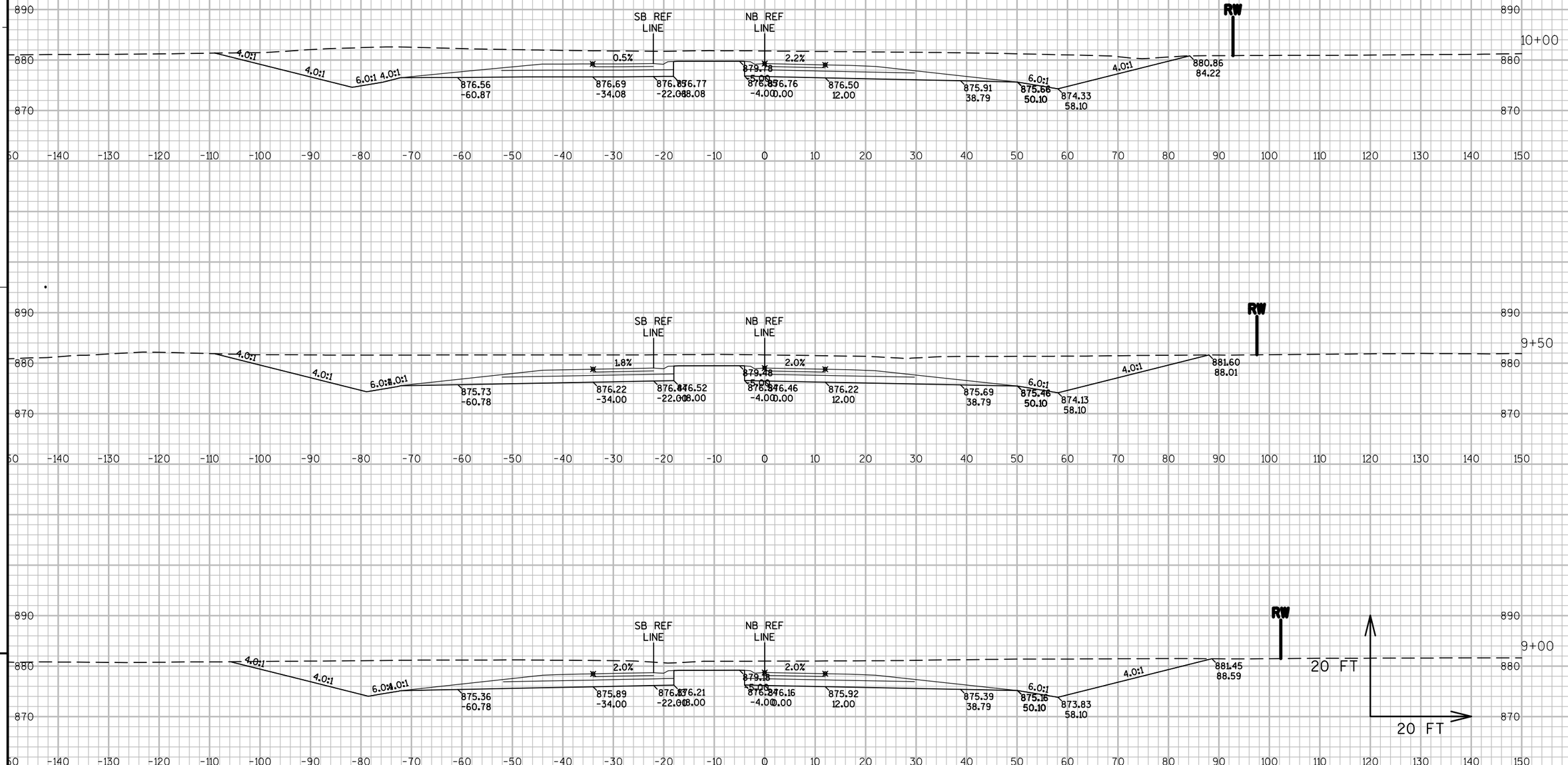


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 750 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (73)

PLOT DATE : 9/26/2014 1:39 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

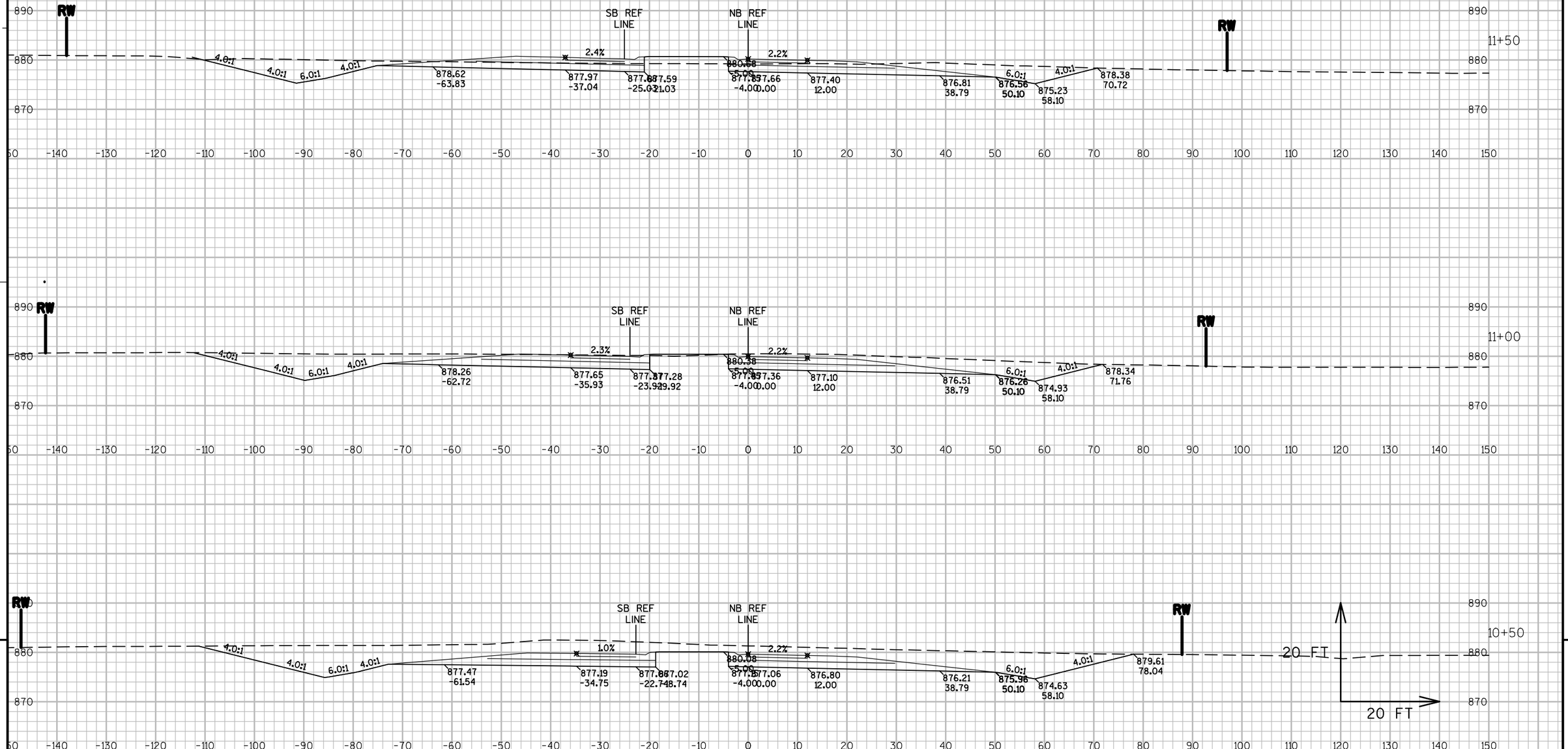


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 751	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (74)

PLOT DATE : 9/26/2014 1:40 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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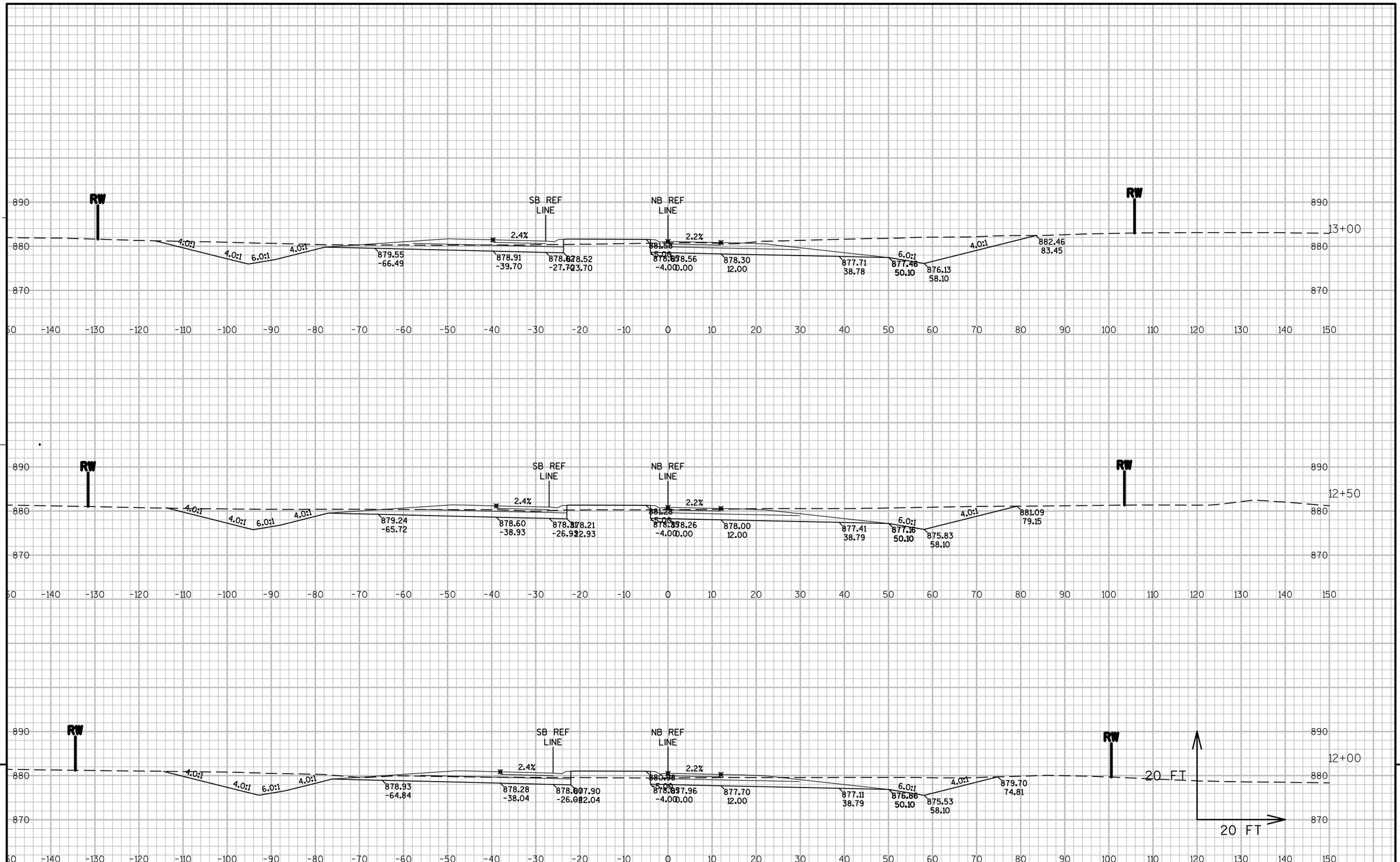
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 752	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (75)

PLOT DATE : 9/26/2014 1:40 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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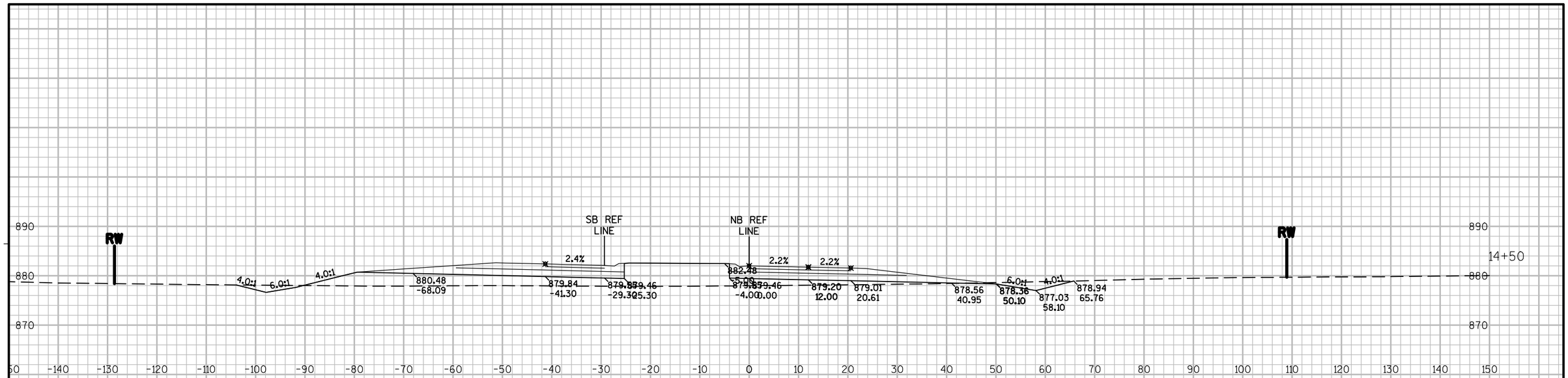
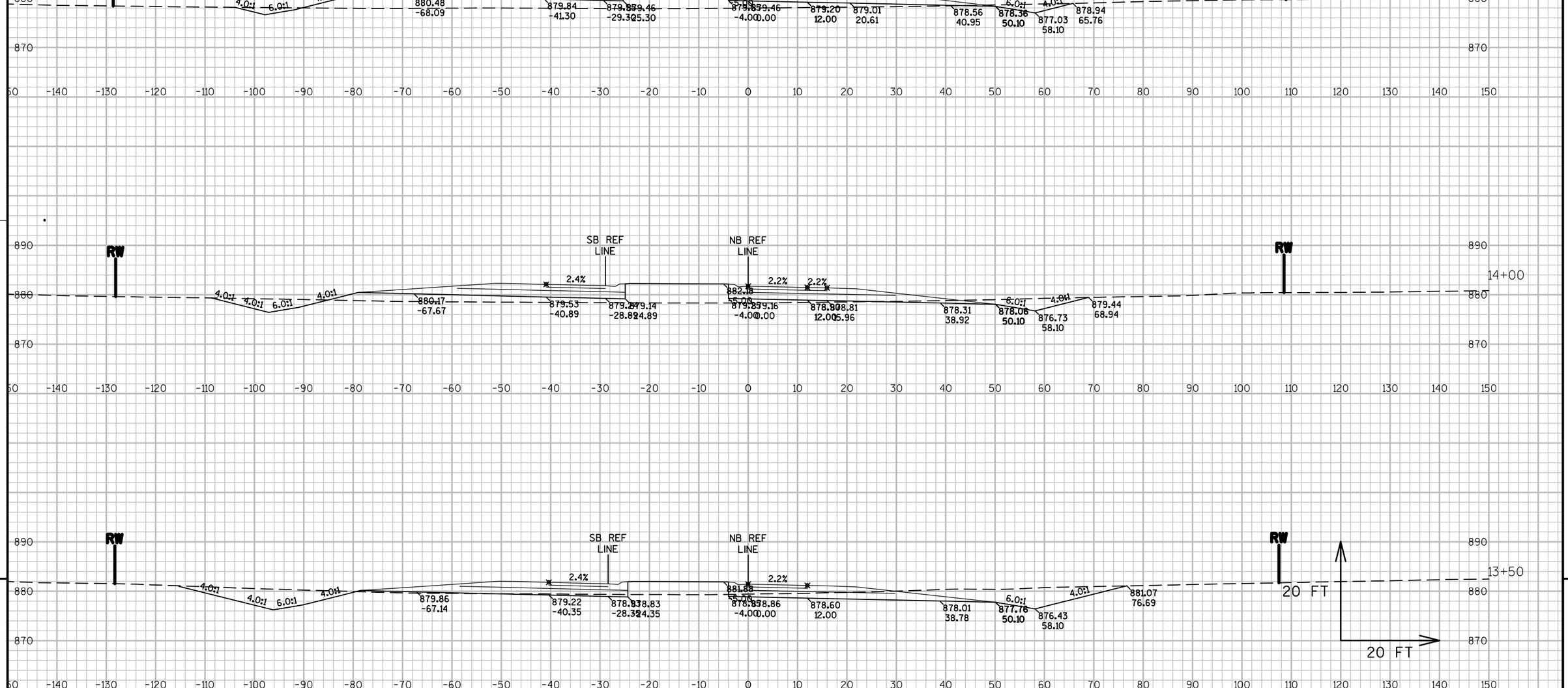
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 753	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (76)

PLOT DATE : 9/26/2014 1:41 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF





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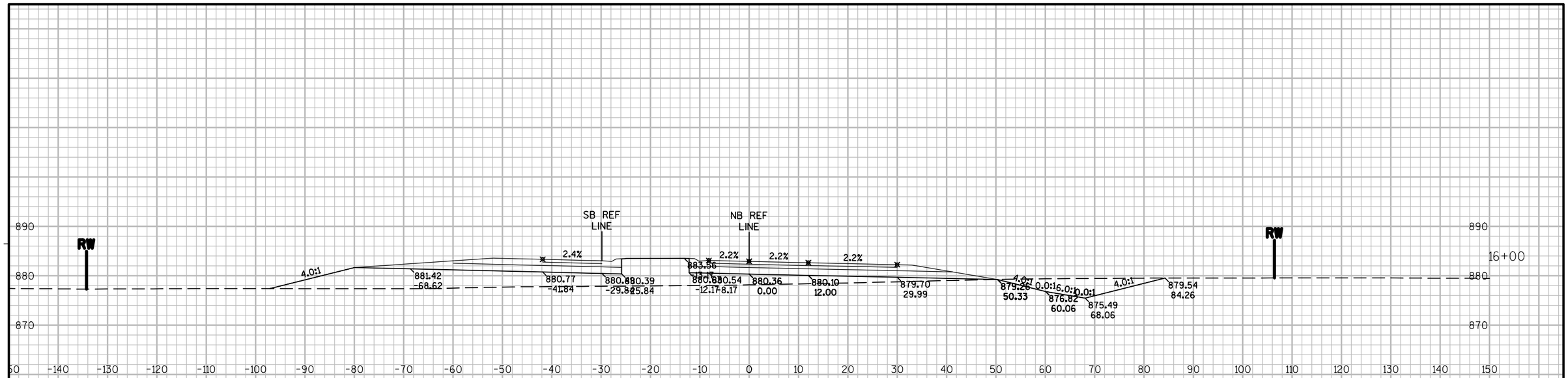
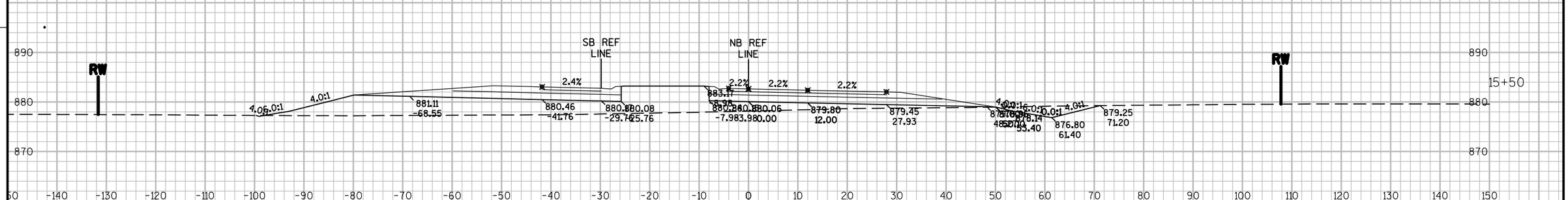
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 754	E

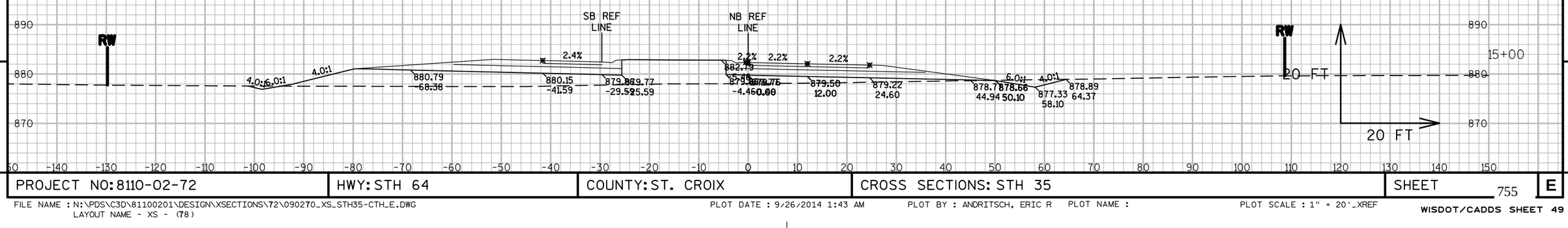
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (77)

PLOT DATE : 9/26/2014 1:42 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49







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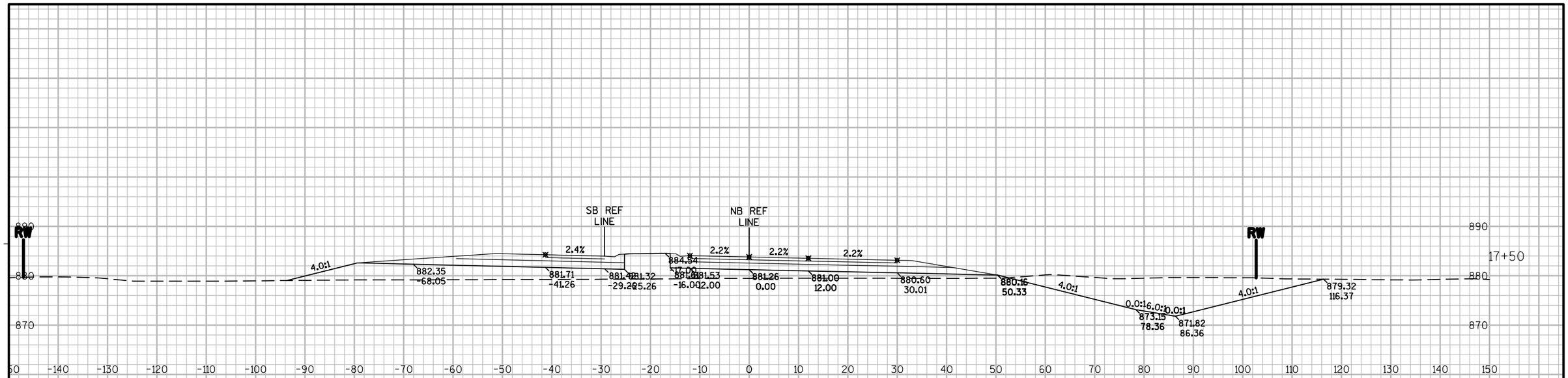
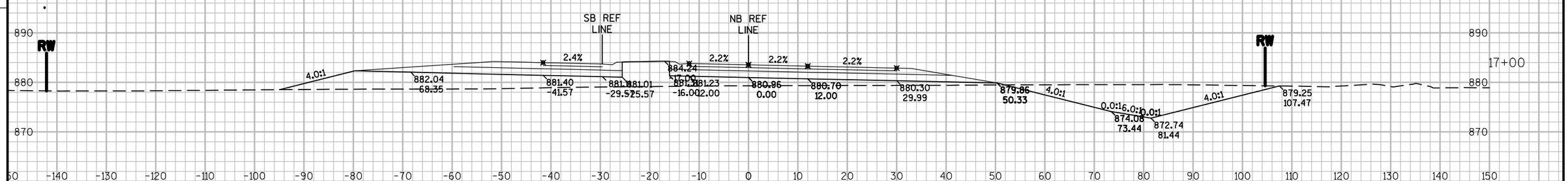
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 755	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (78)

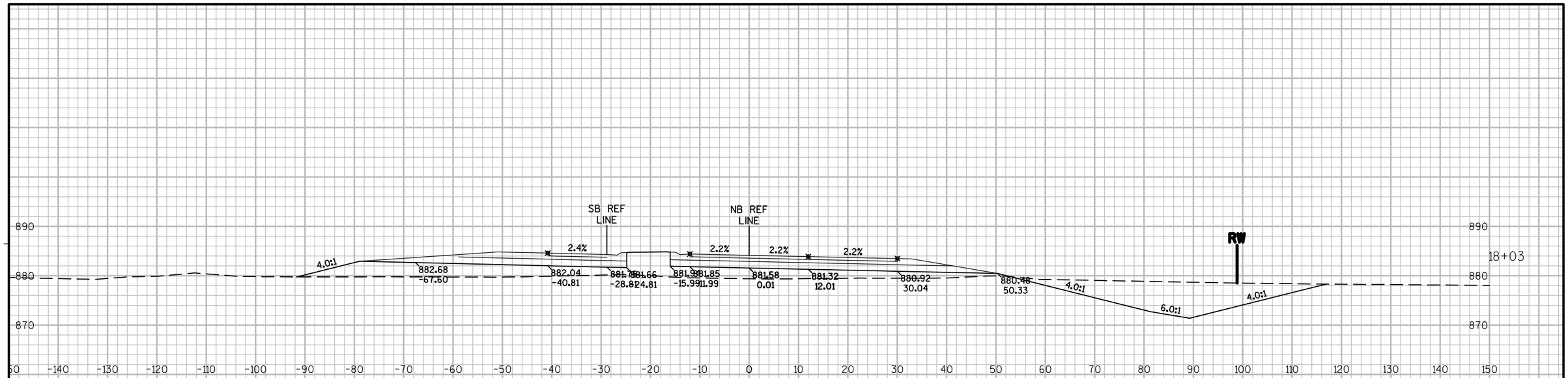
PLOT DATE : 9/26/2014 1:43 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

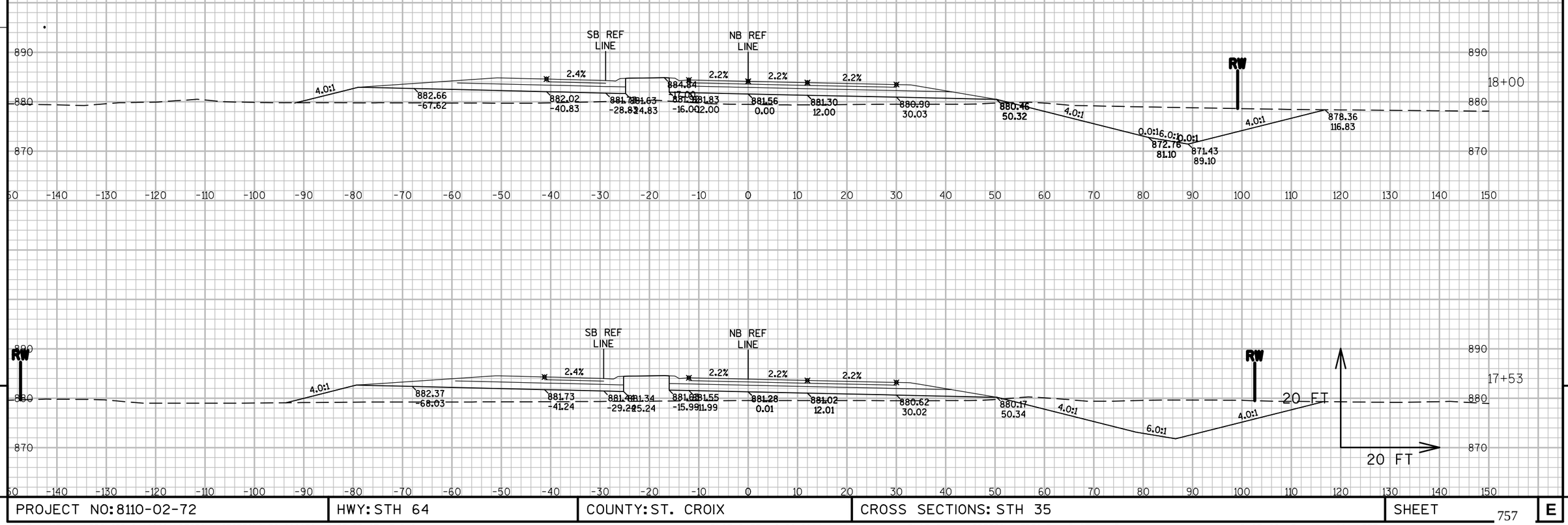
WISDOT/CADDS SHEET 49





PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 756	E





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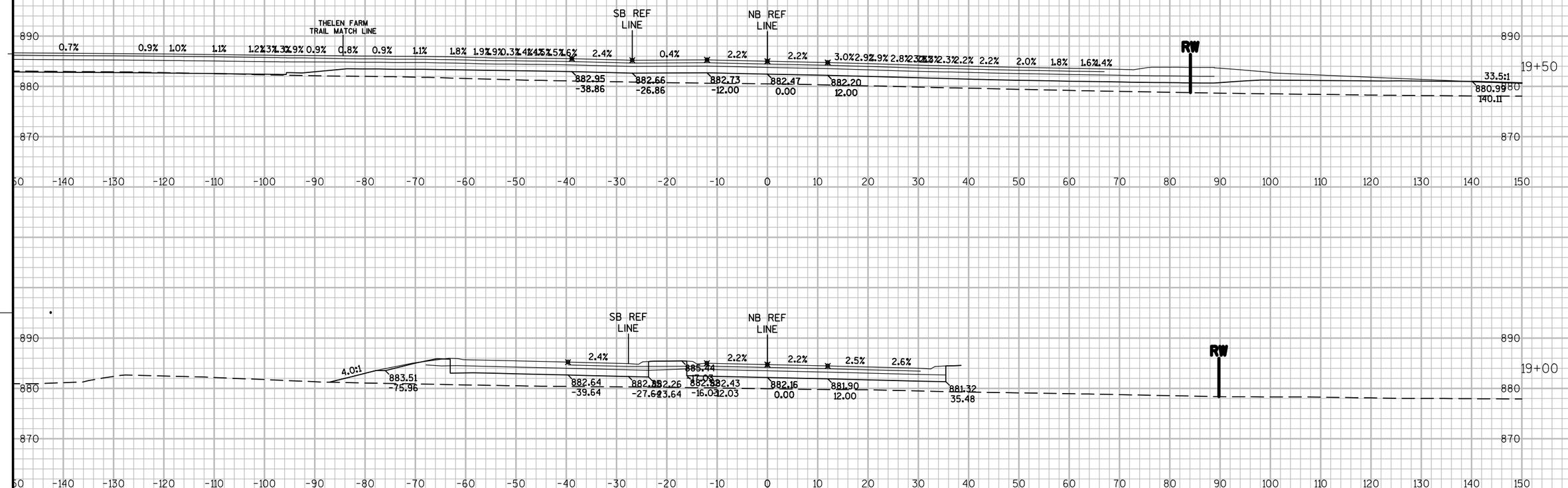
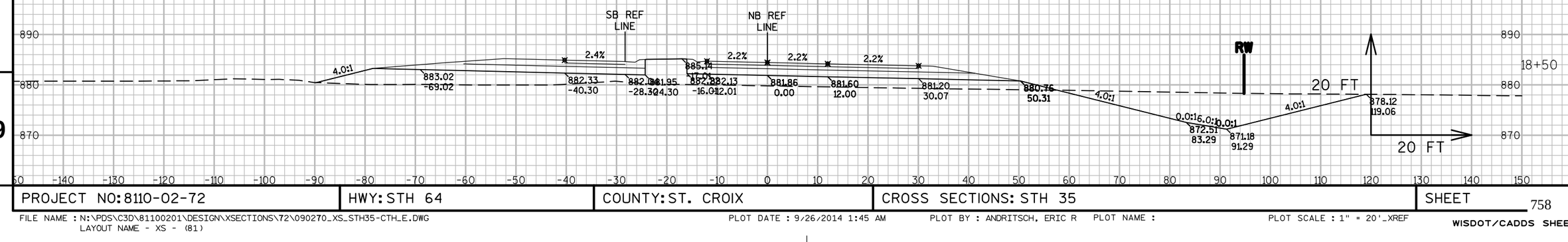
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 757 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (80)
PLOT DATE : 9/26/2014 1:44 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



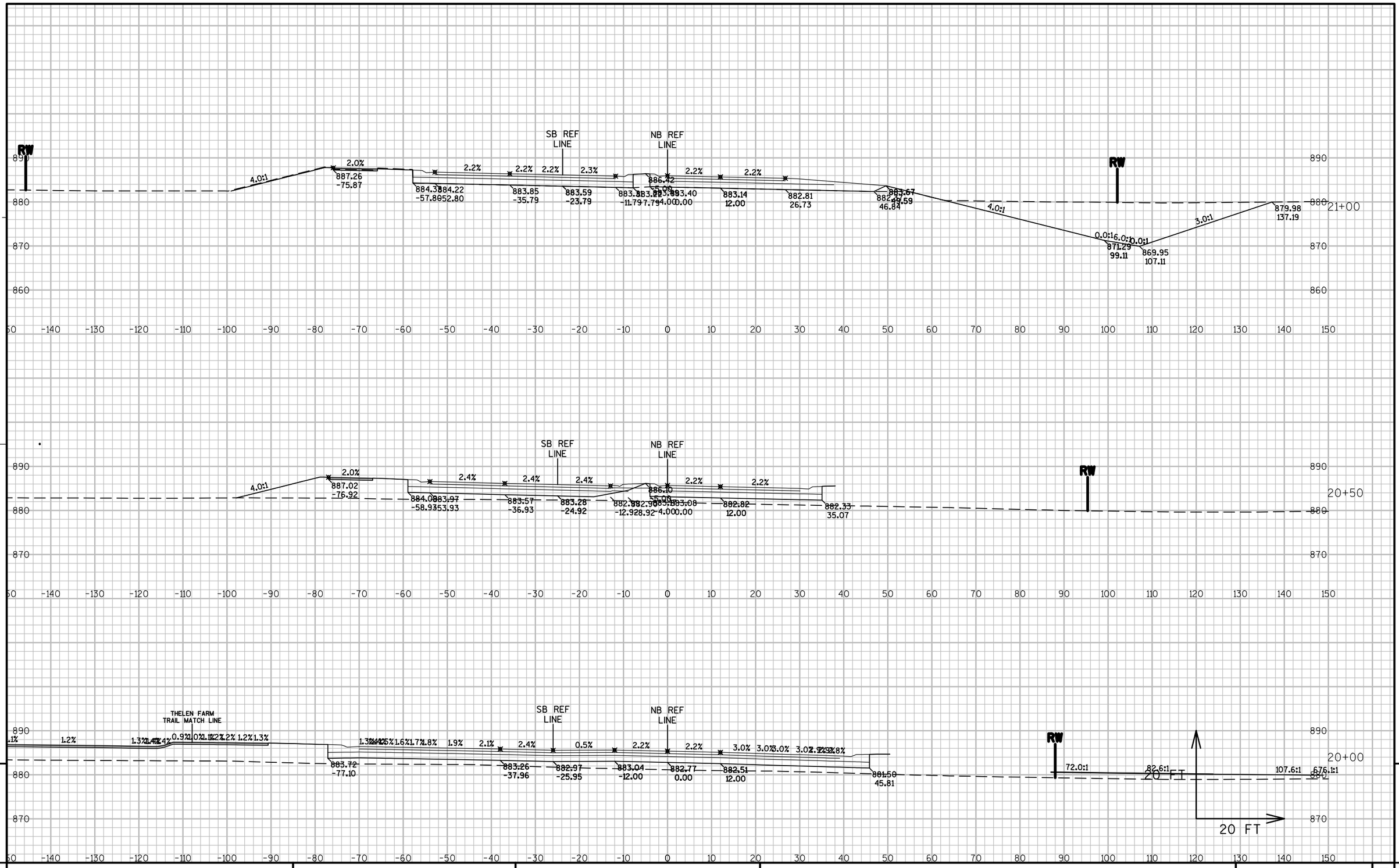


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 758 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (81)

PLOT DATE : 9/26/2014 1:45 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

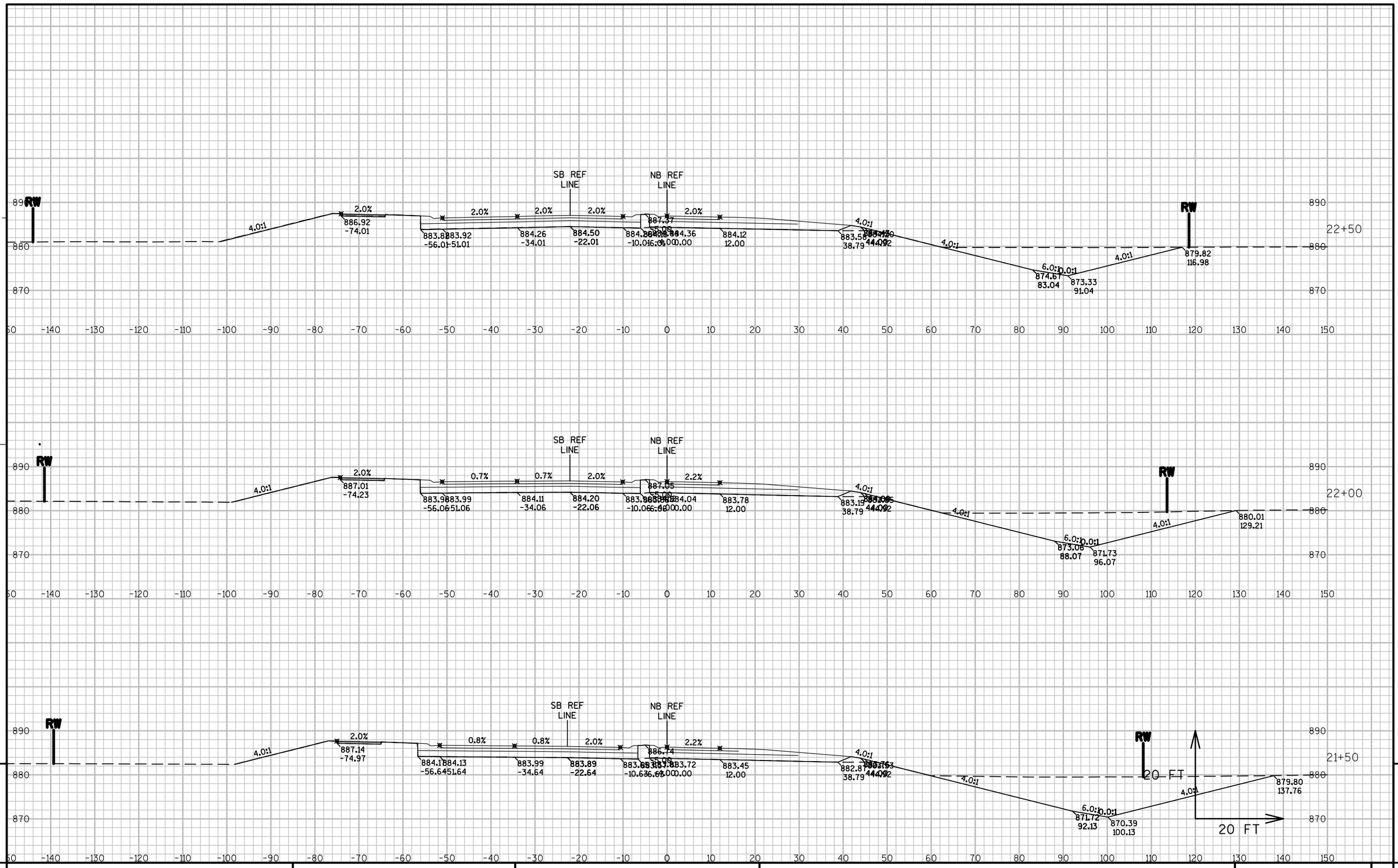


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 759	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (82)

PLOT DATE : 9/26/2014 1:45 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

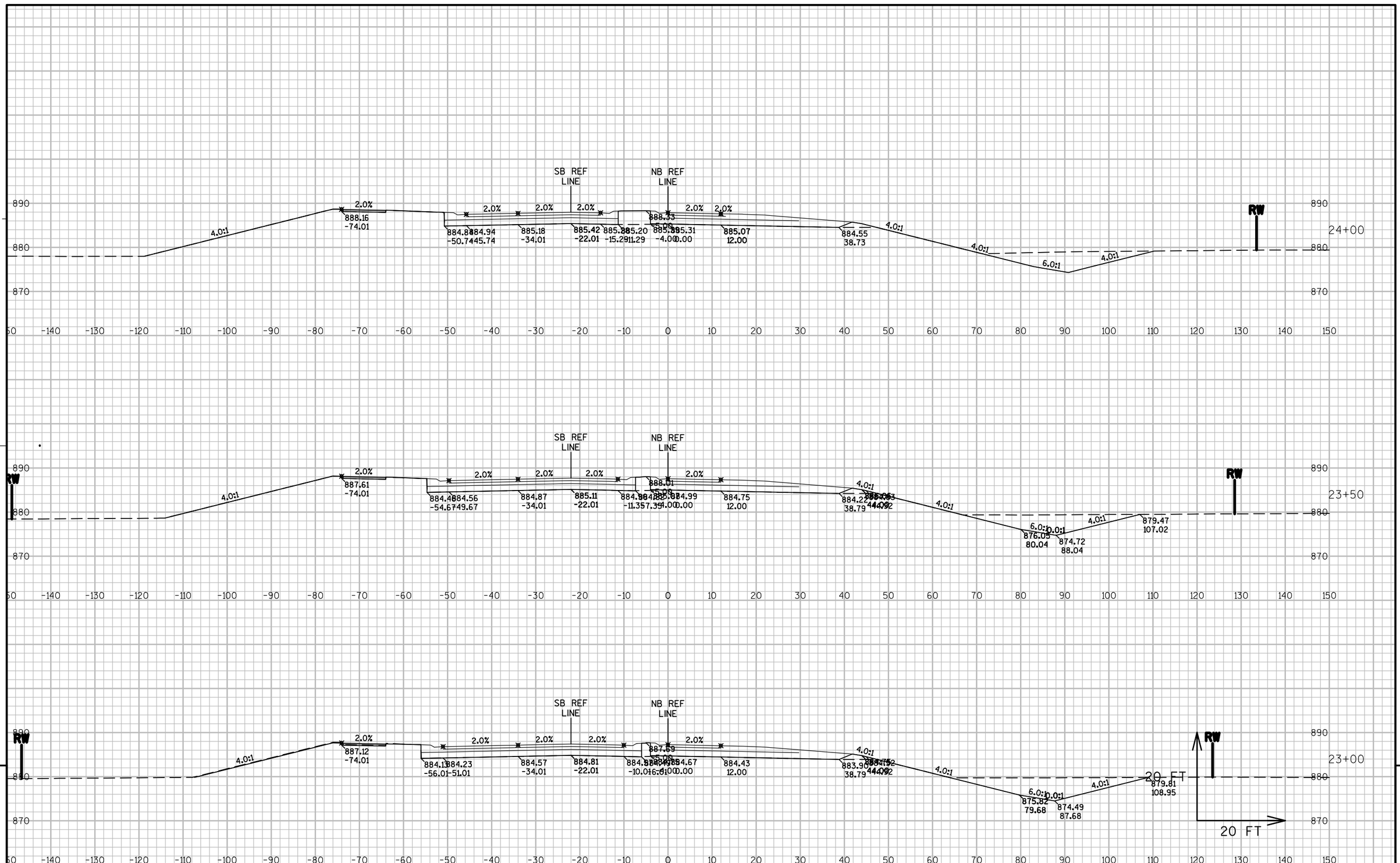


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 760	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (83)

PLOT DATE : 9/26/2014 1:46 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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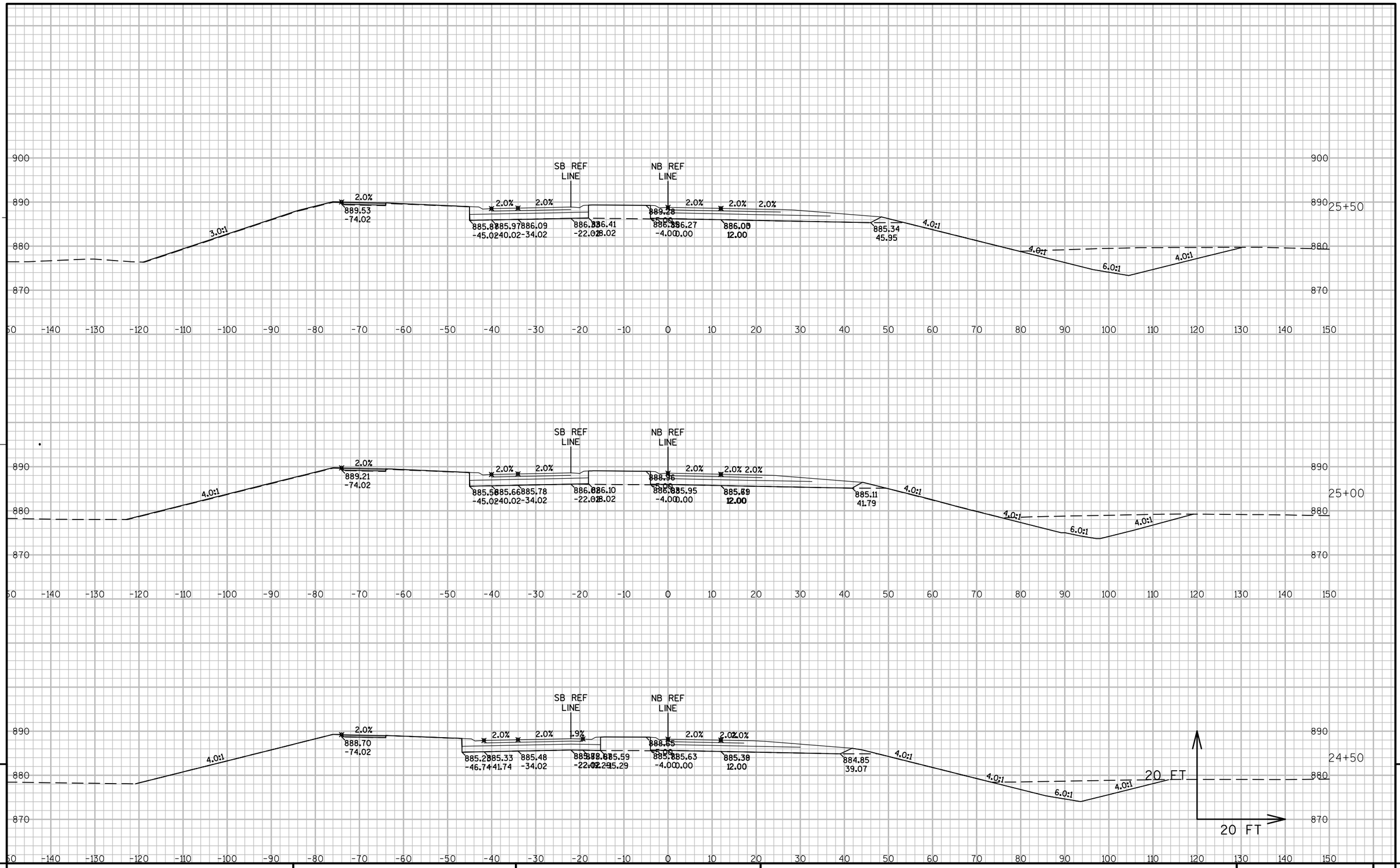
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 761	E

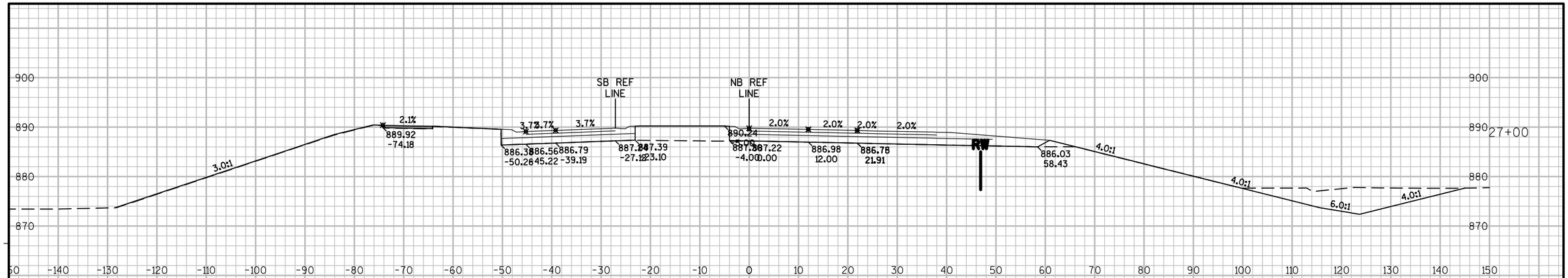
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (84)

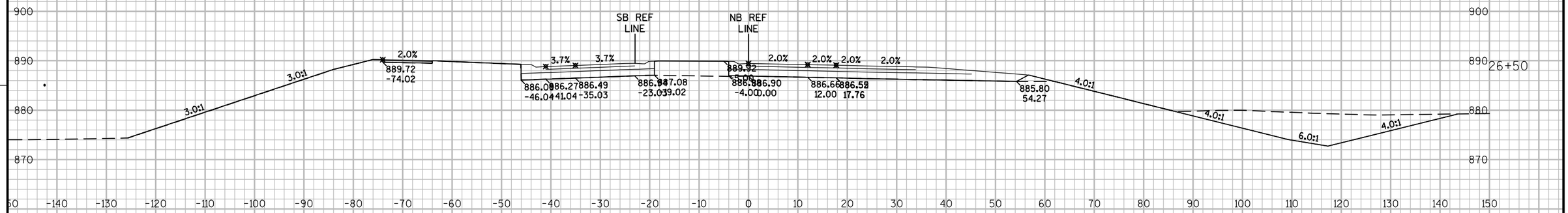
PLOT DATE : 9/26/2014 1:47 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

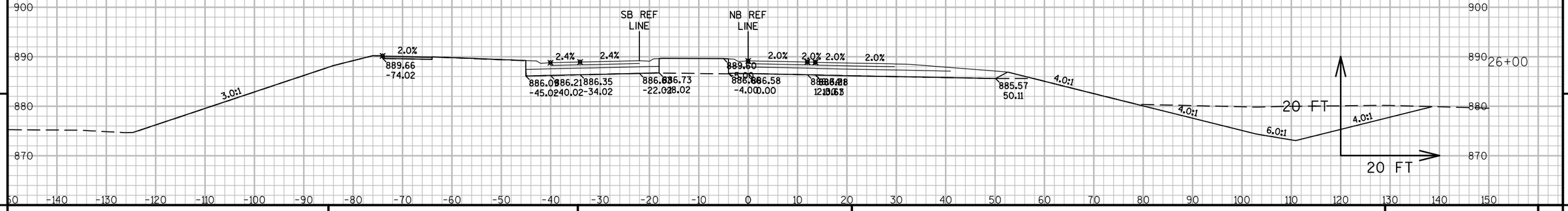
WISDOT/CADDS SHEET 49



9	PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 762 E







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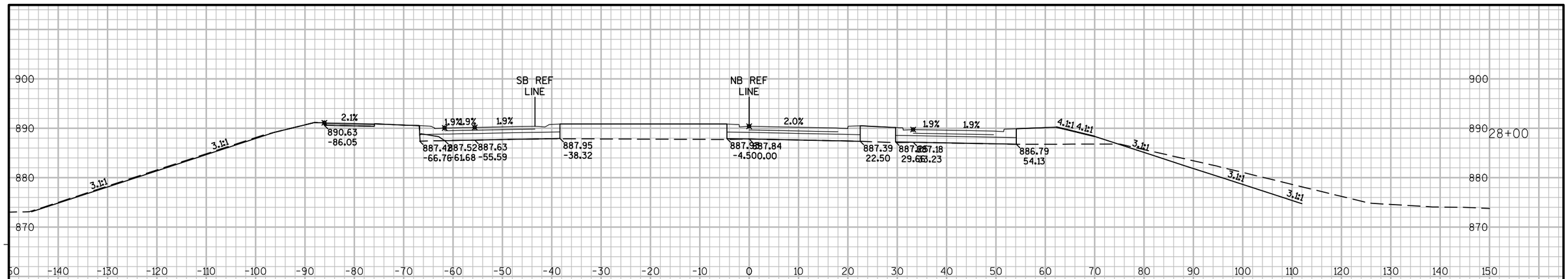
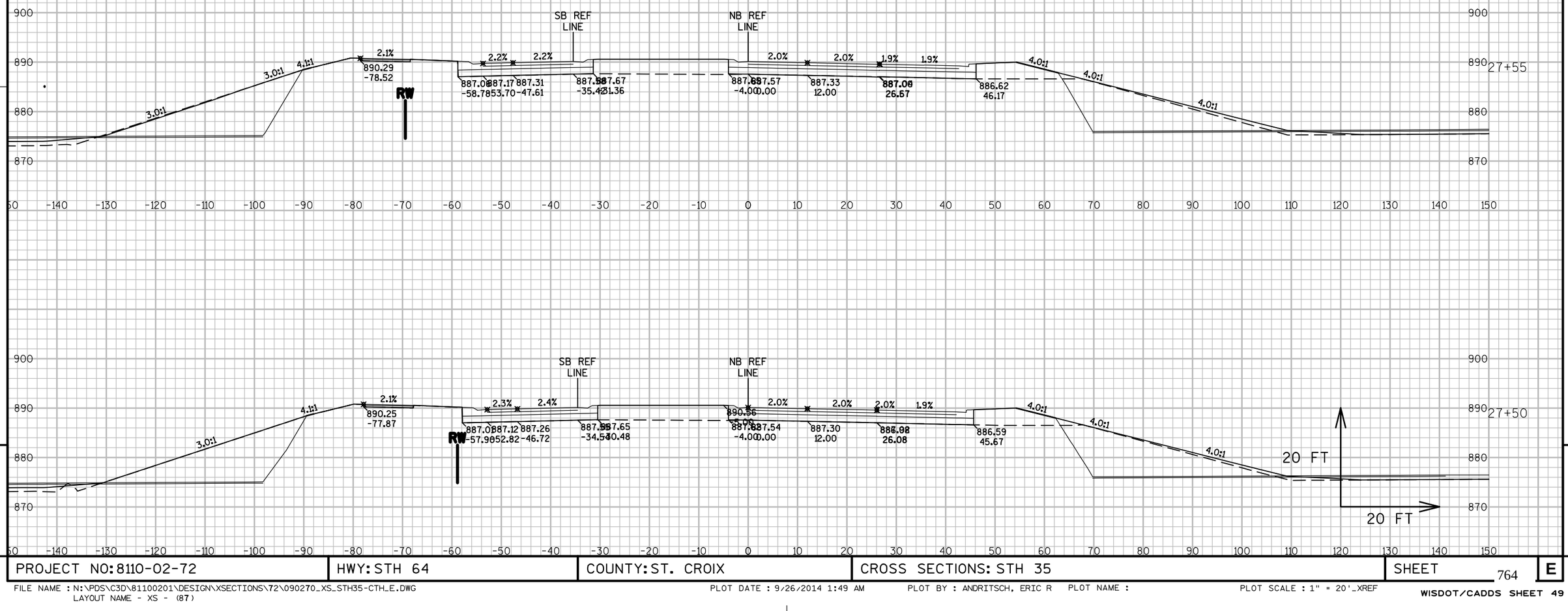
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 763	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (86)

PLOT DATE : 9/26/2014 1:48 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



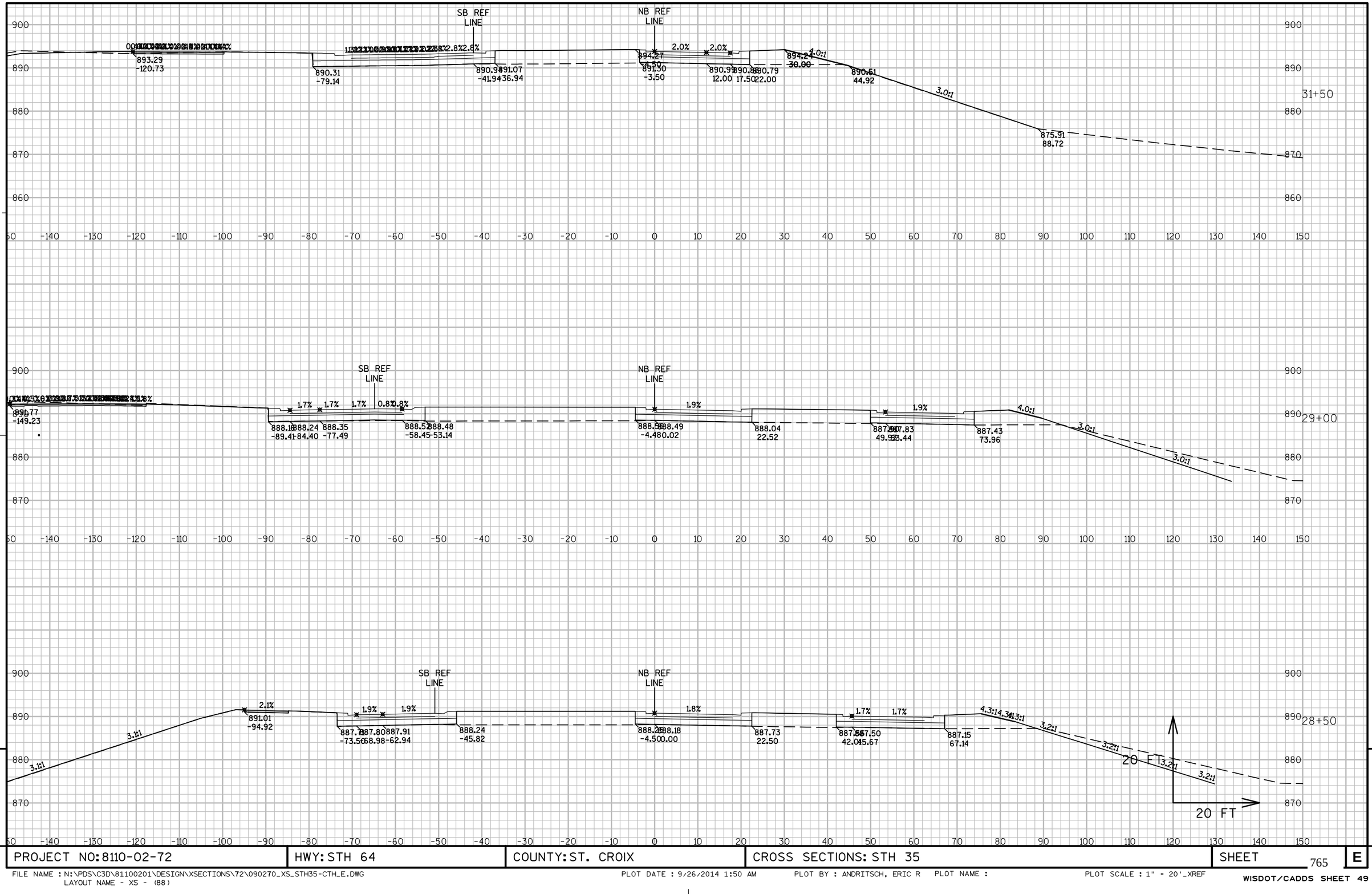


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 764	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (87)

PLOT DATE : 9/26/2014 1:49 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

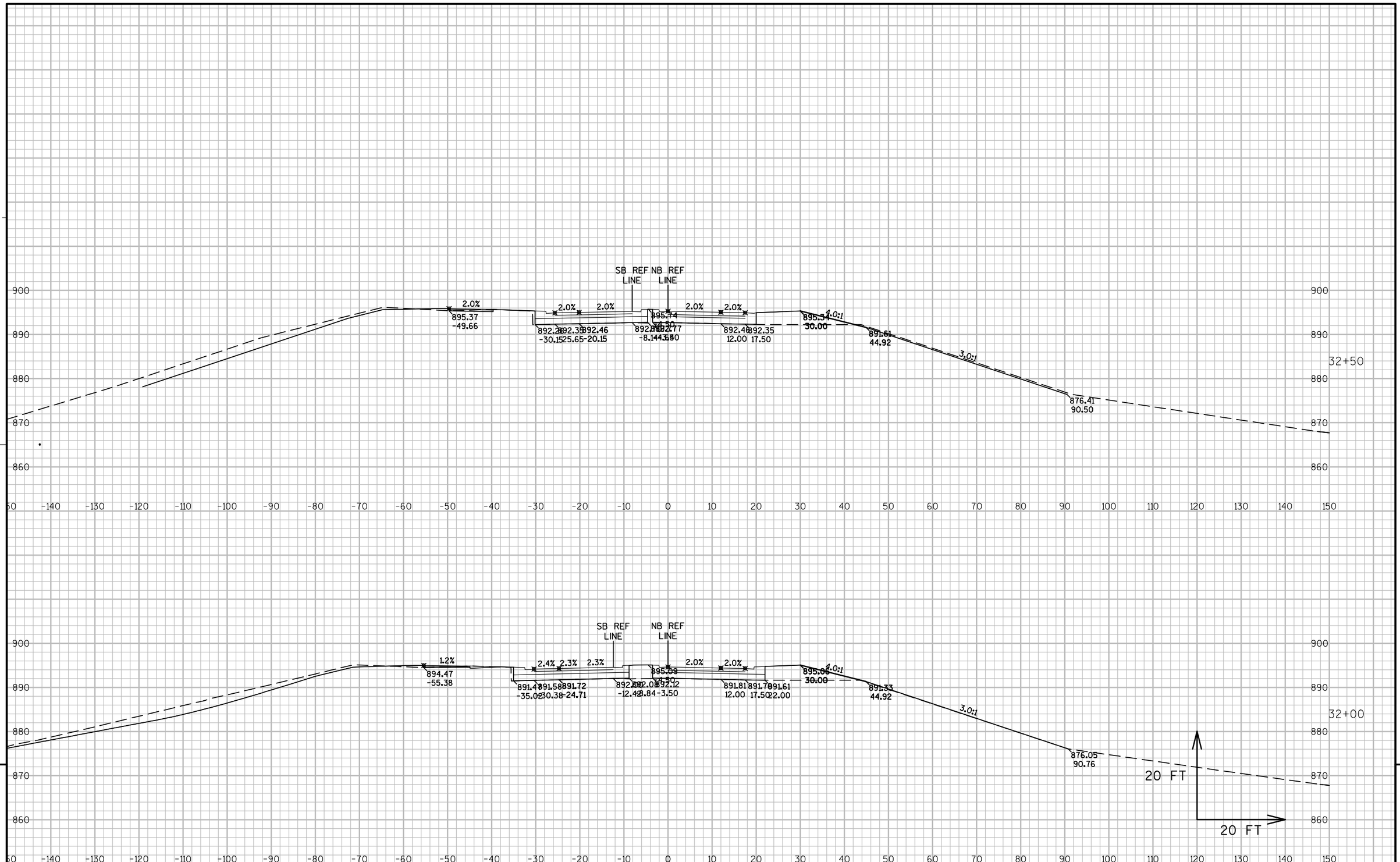


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 765 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (88)

PLOT DATE : 9/26/2014 1:50 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

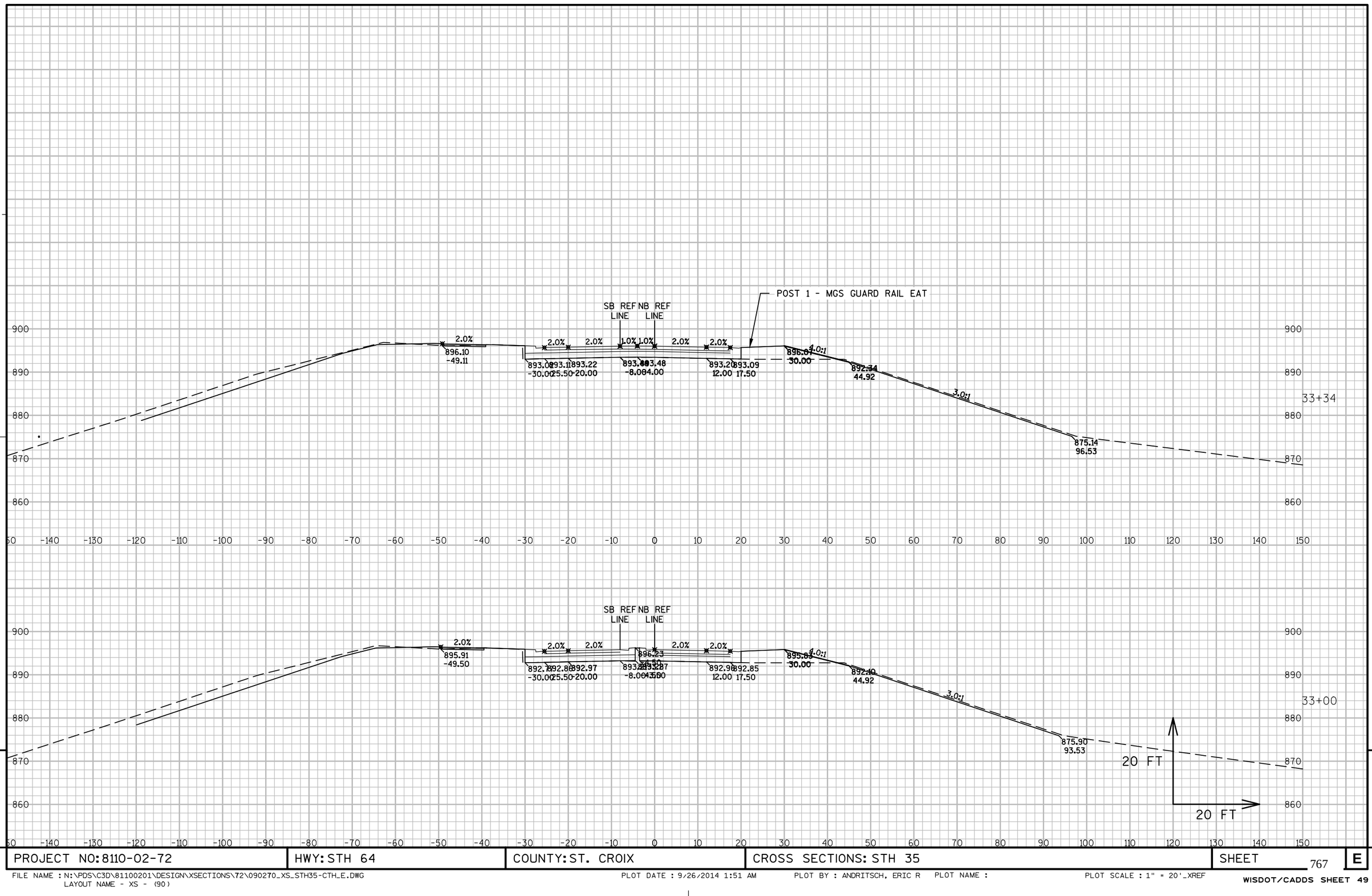
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 766 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (89)

PLOT DATE : 9/26/2014 1:50 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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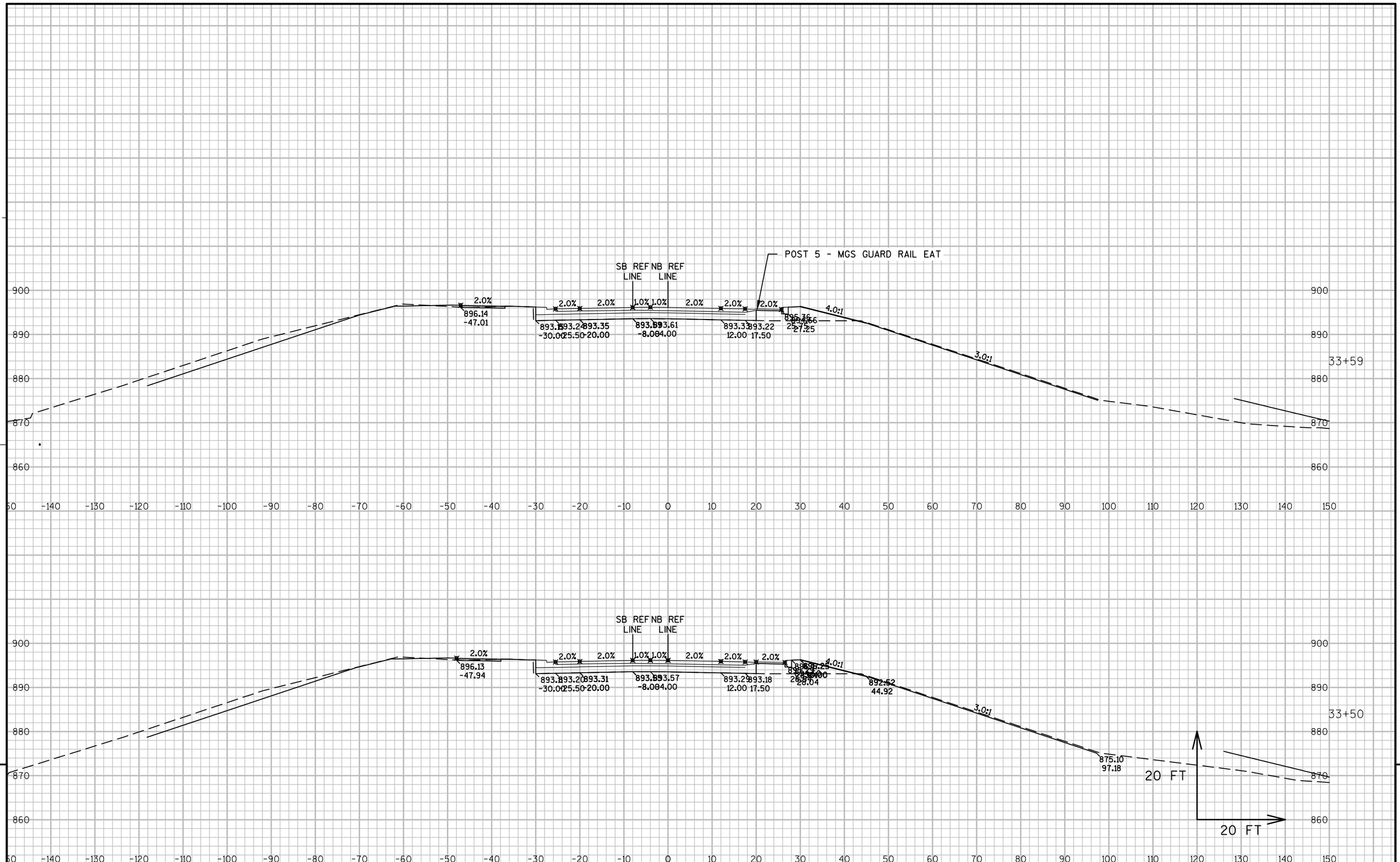
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 767	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (90)

PLOT DATE : 9/26/2014 1:51 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

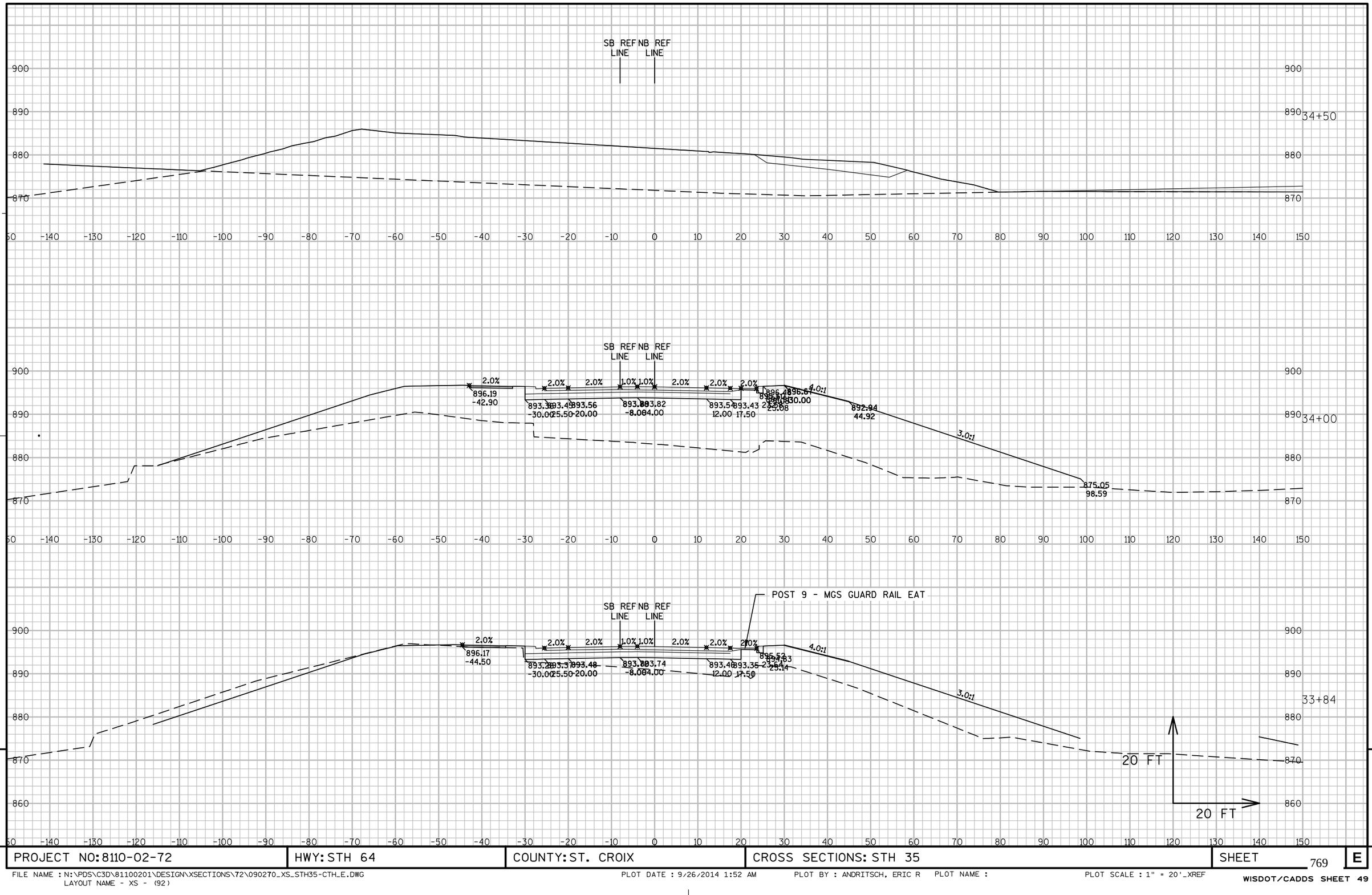


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 768	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (91)

PLOT DATE : 9/26/2014 1:52 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

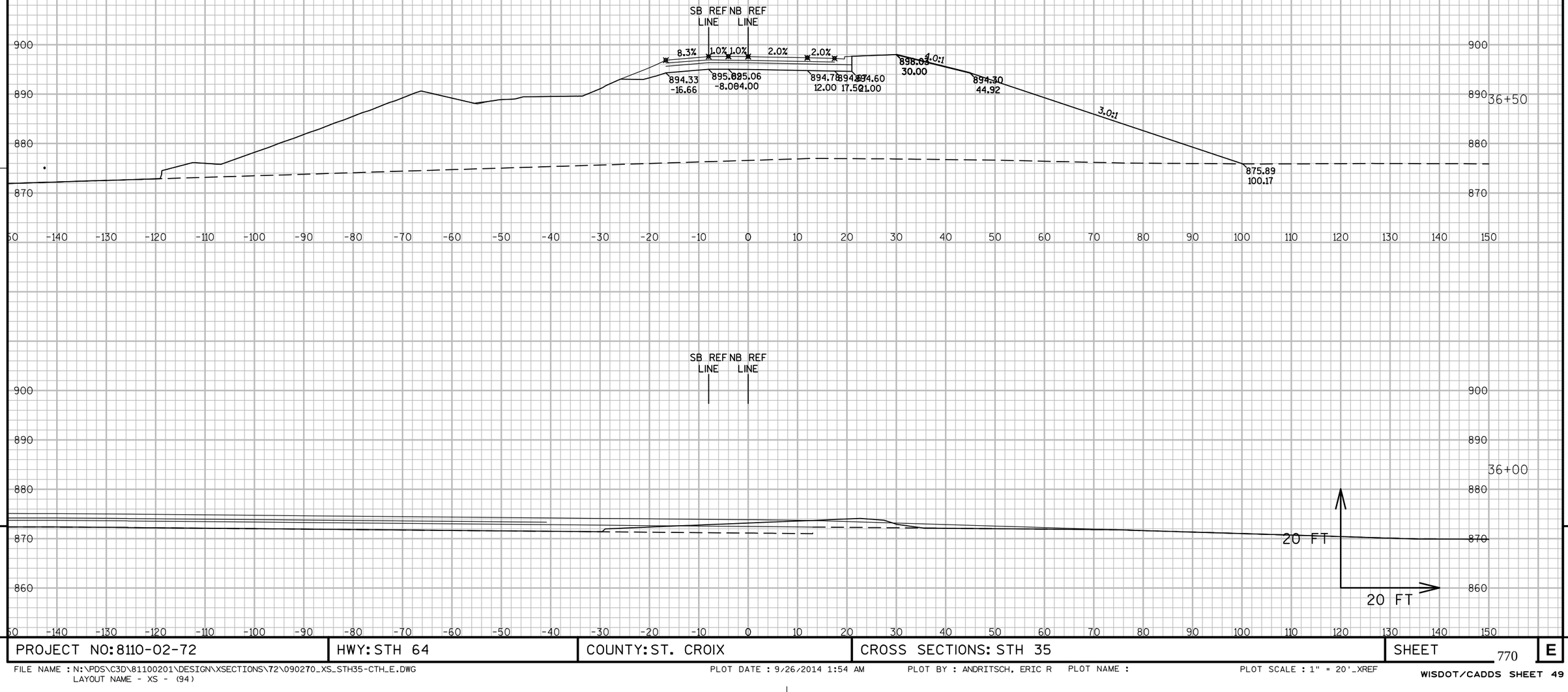


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 769 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (92)

PLOT DATE : 9/26/2014 1:52 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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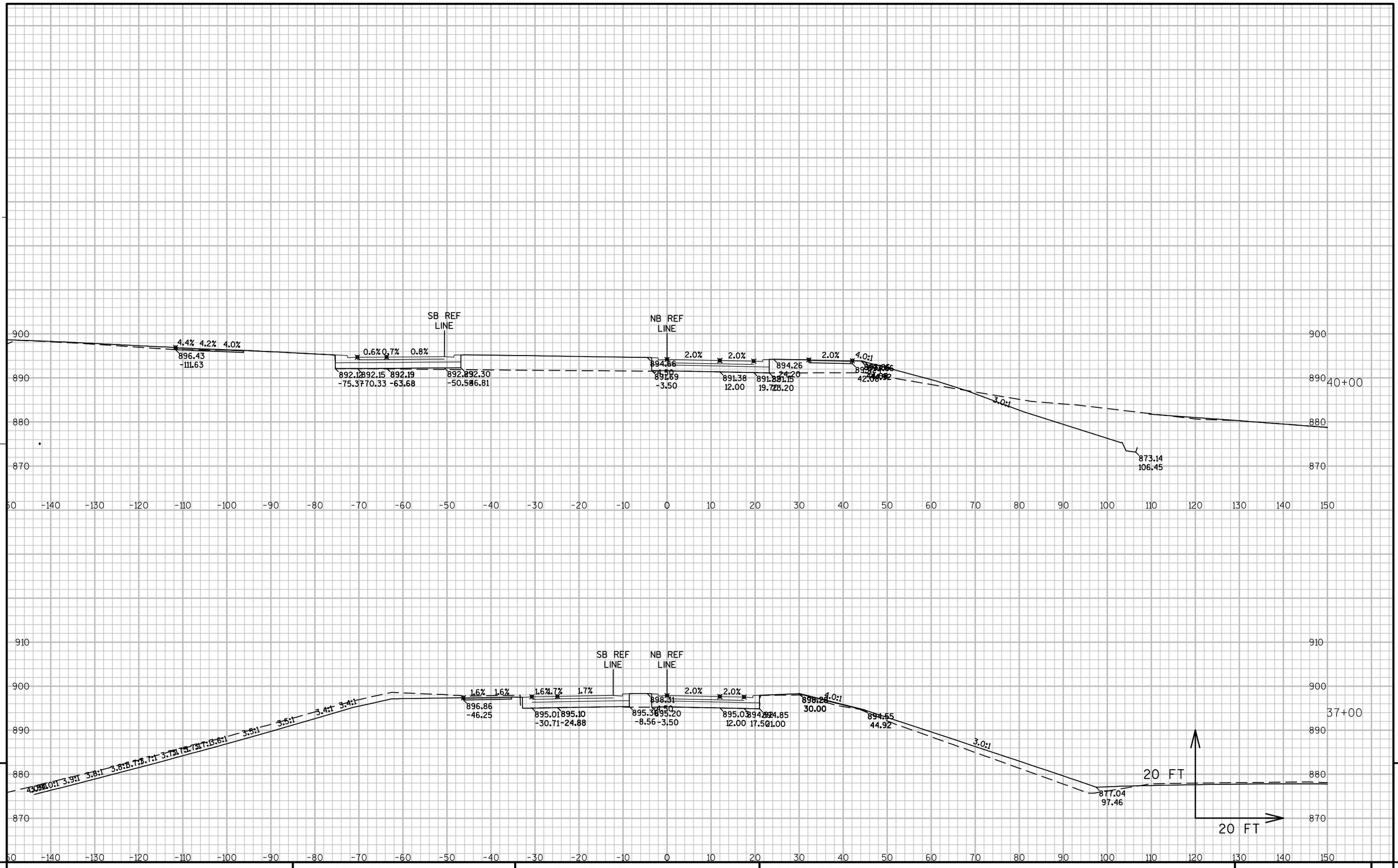
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 770	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (94)

PLOT DATE : 9/26/2014 1:54 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

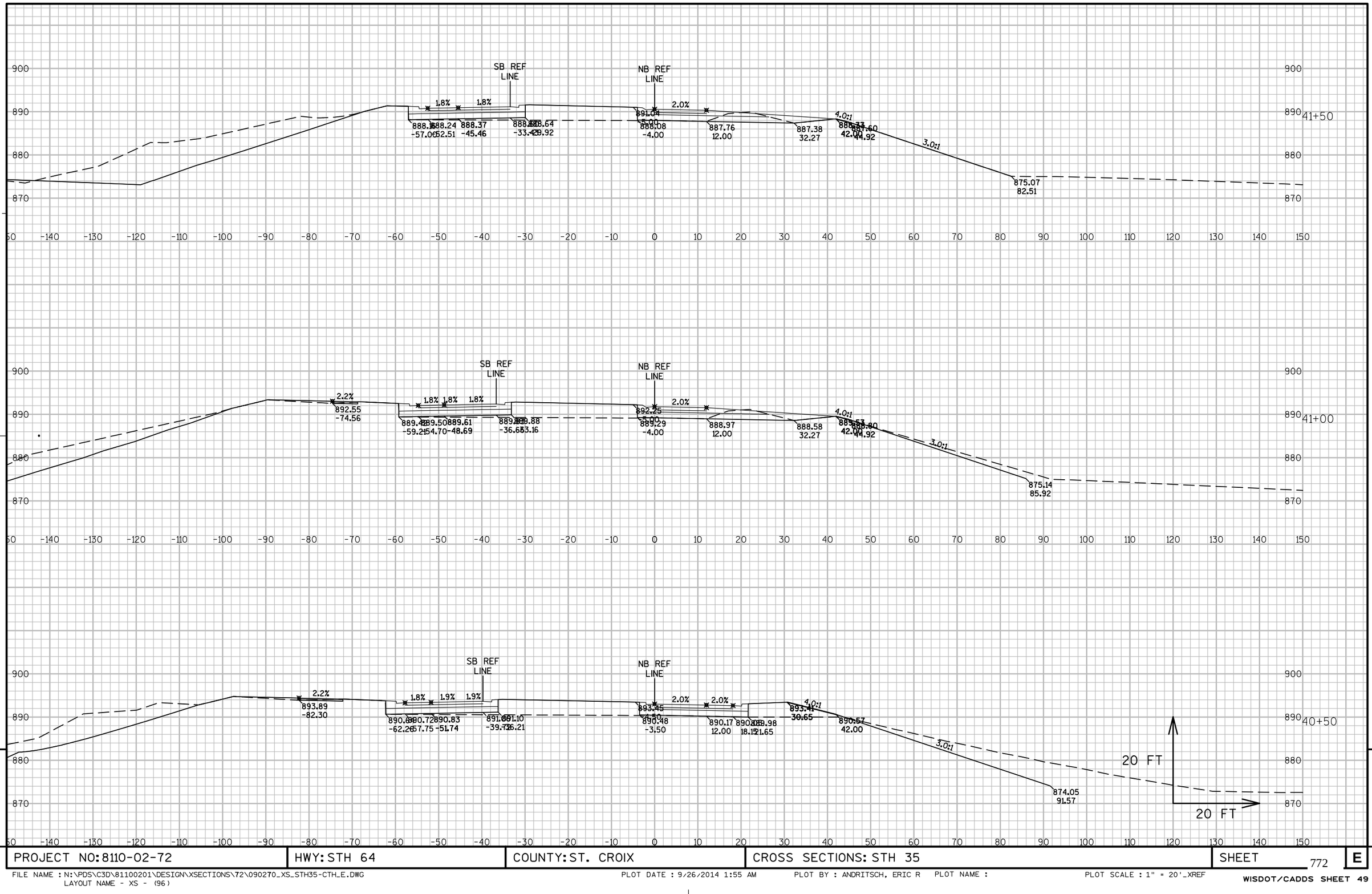


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 771	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (95)

PLOT DATE : 9/26/2014 1:54 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

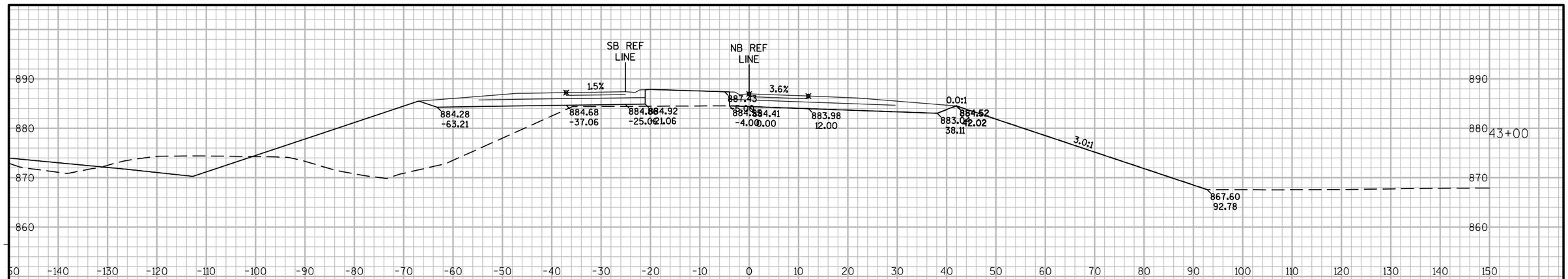
WISDOT/CADDS SHEET 49

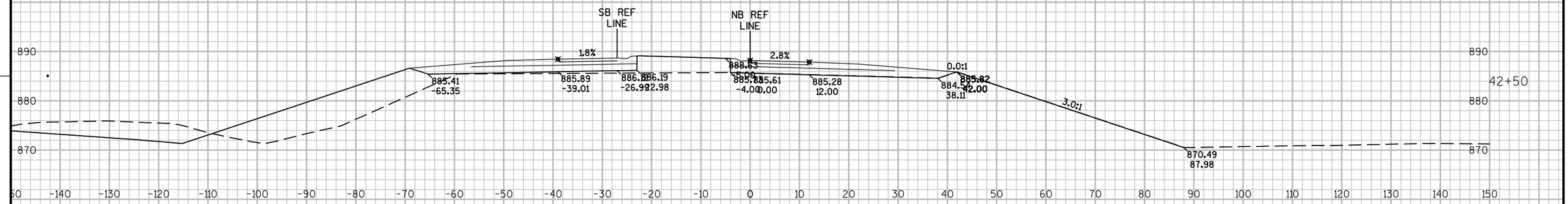


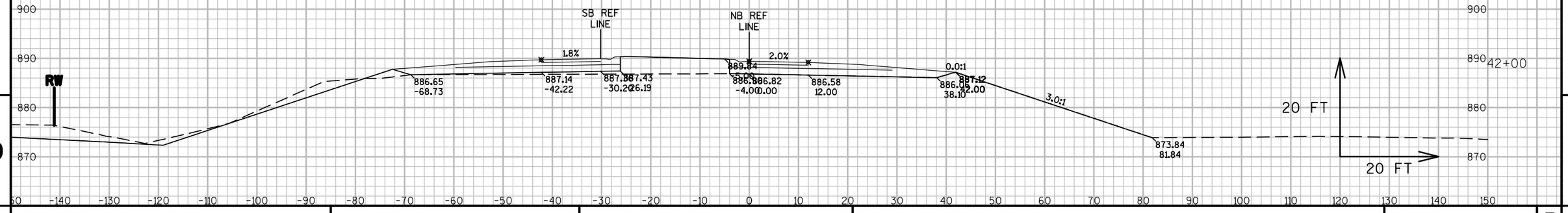
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 772	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (96)

PLOT DATE : 9/26/2014 1:55 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF







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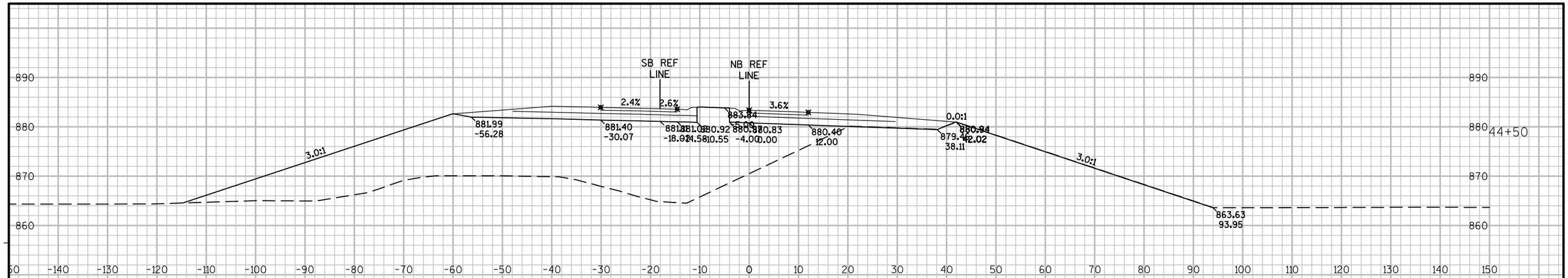
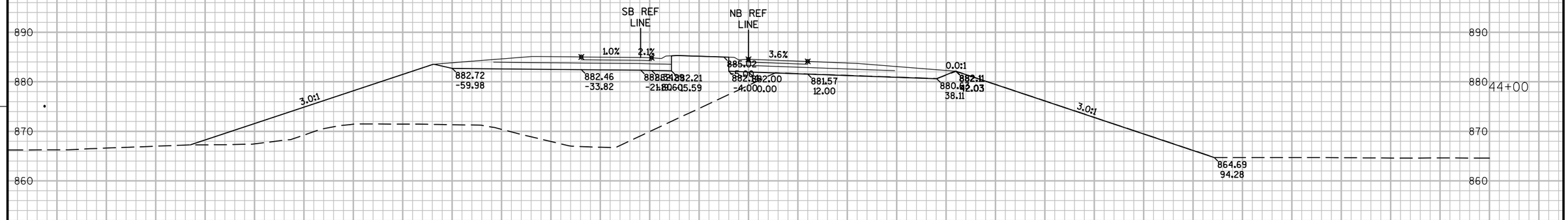
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 773	E

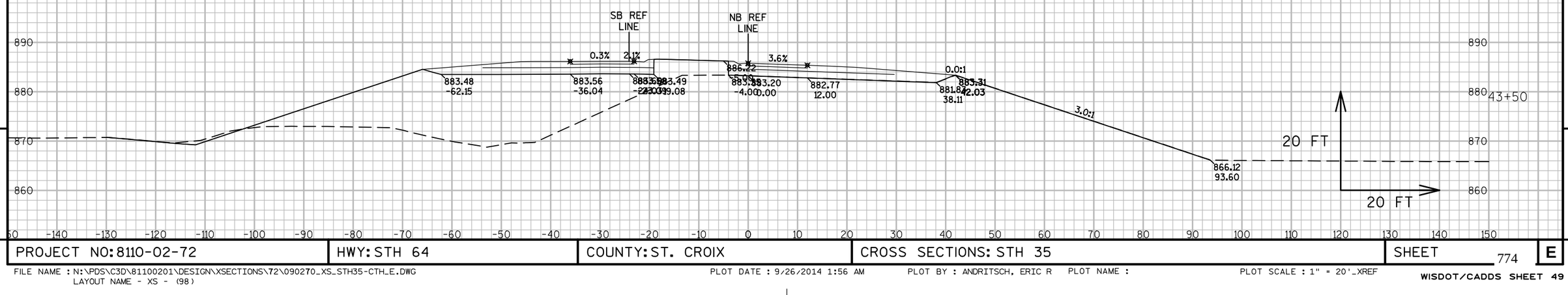
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (97)

PLOT DATE : 9/26/2014 1:56 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49







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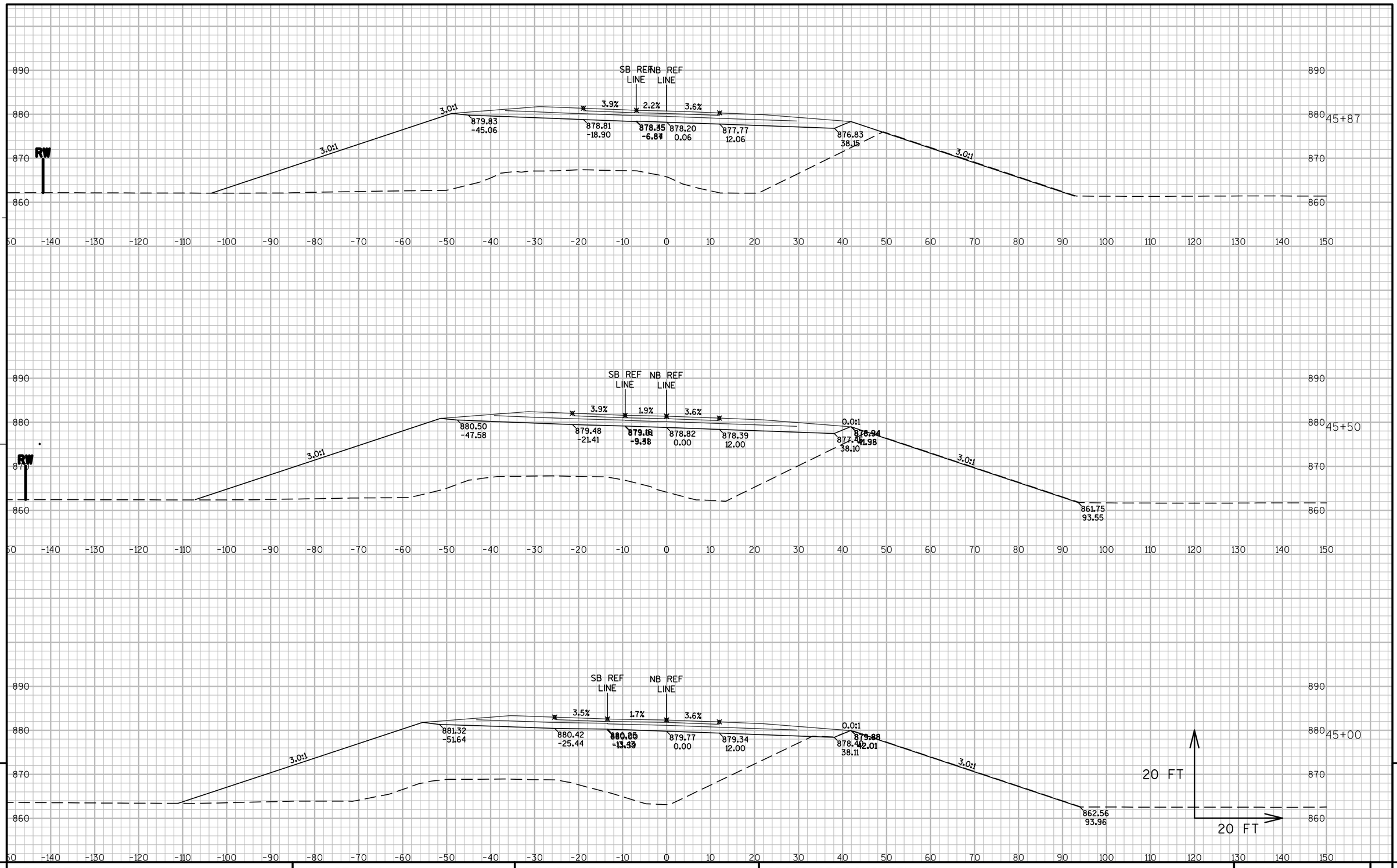
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 774	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (98)

PLOT DATE : 9/26/2014 1:56 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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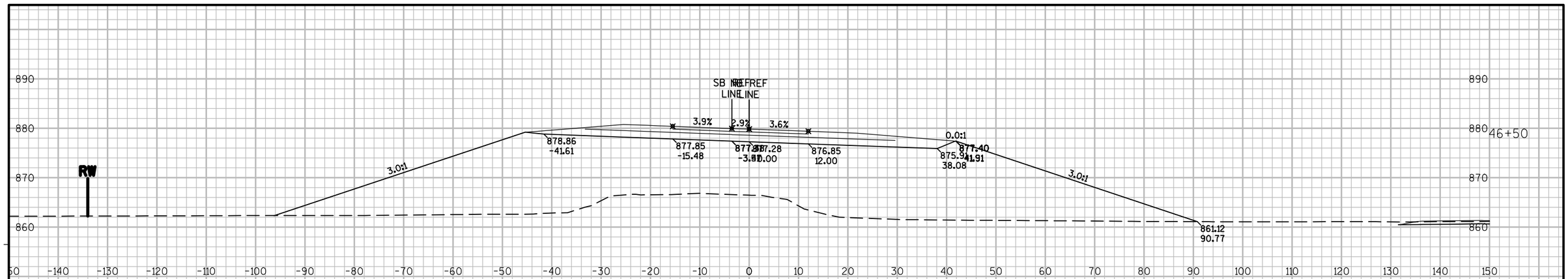
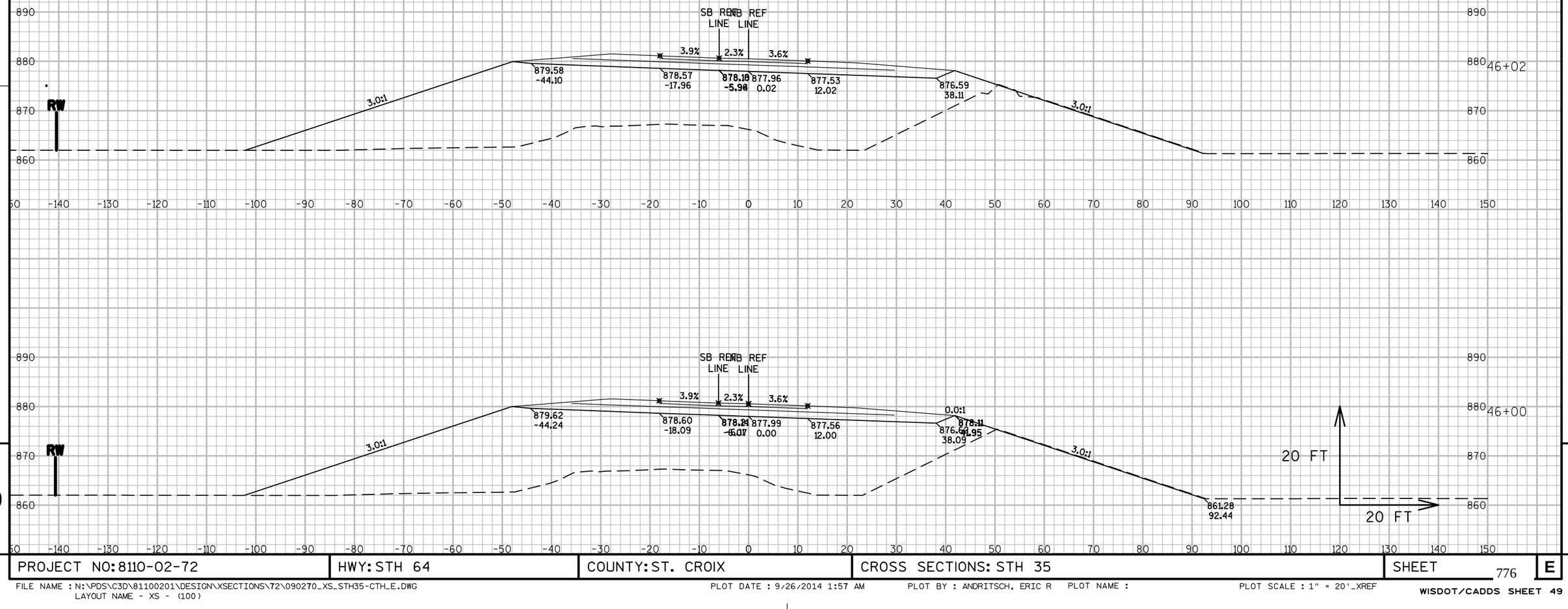
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 775	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (99)
PLOT DATE : 9/26/2014 1:57 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF





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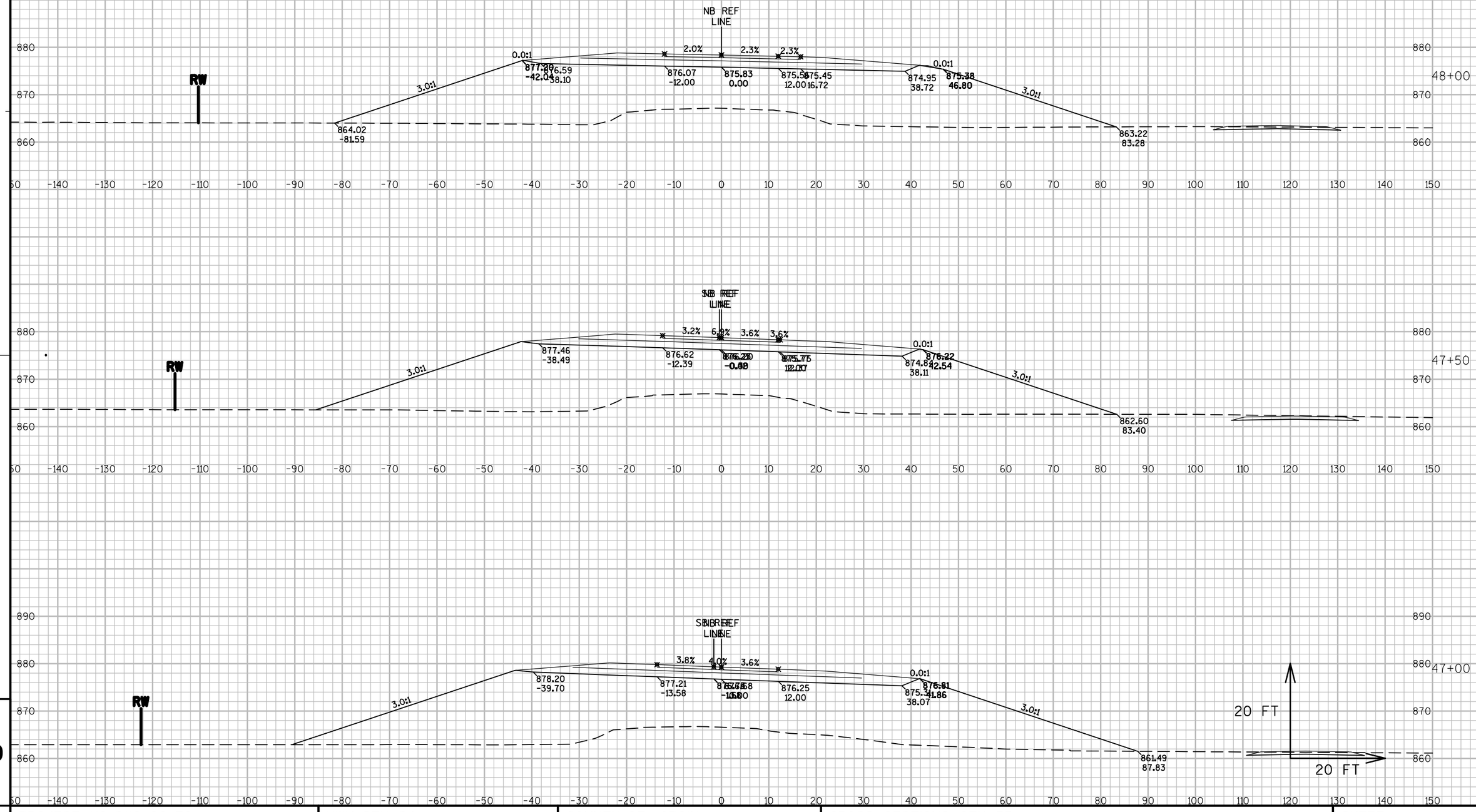
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 776	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (100)

PLOT DATE : 9/26/2014 1:57 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

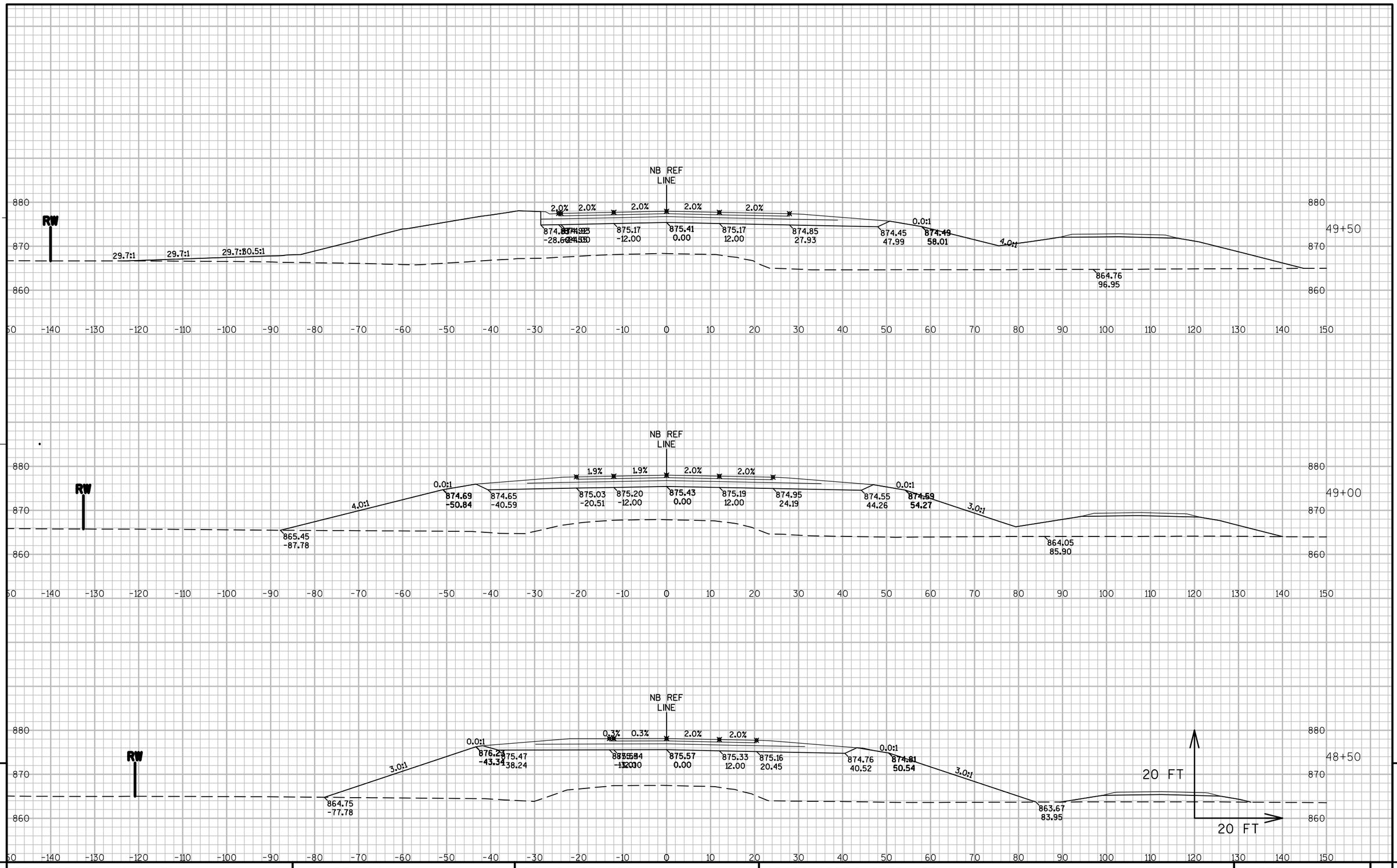


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 777	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (101)

PLOT DATE : 9/26/2014 1:58 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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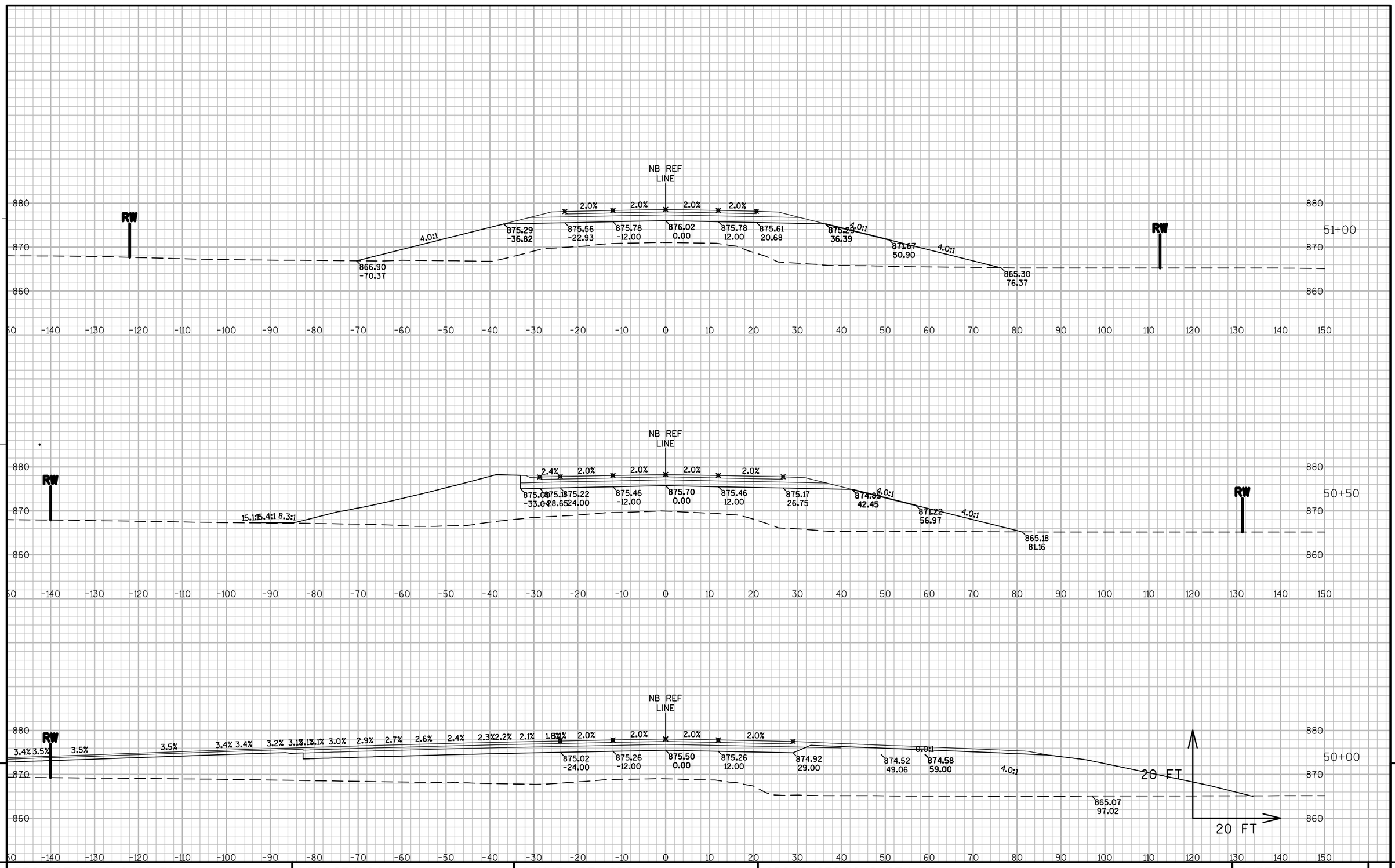
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 778	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (102)

PLOT DATE : 9/26/2014 1:59 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

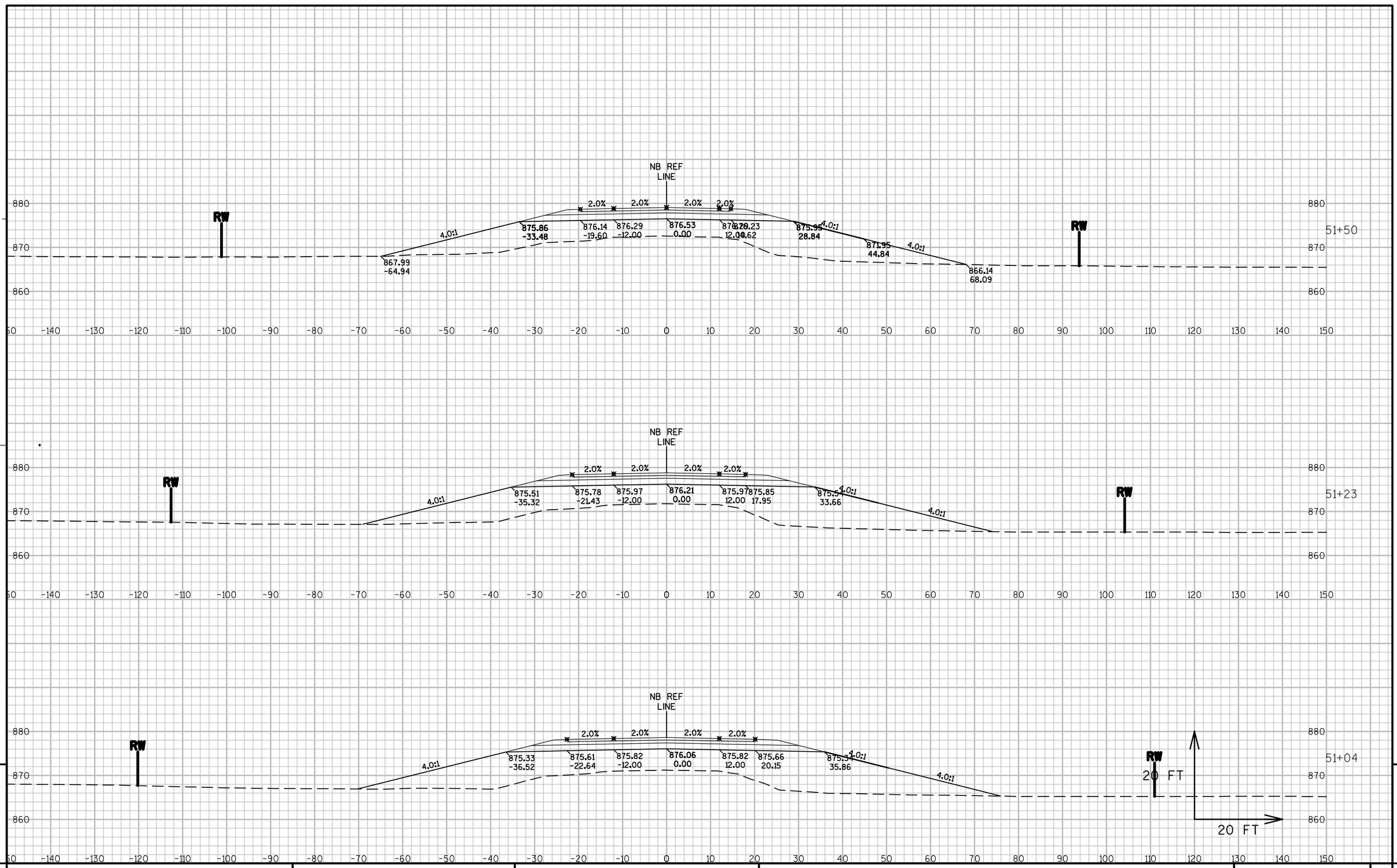


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 779	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (103)

PLOT DATE : 9/26/2014 1:59 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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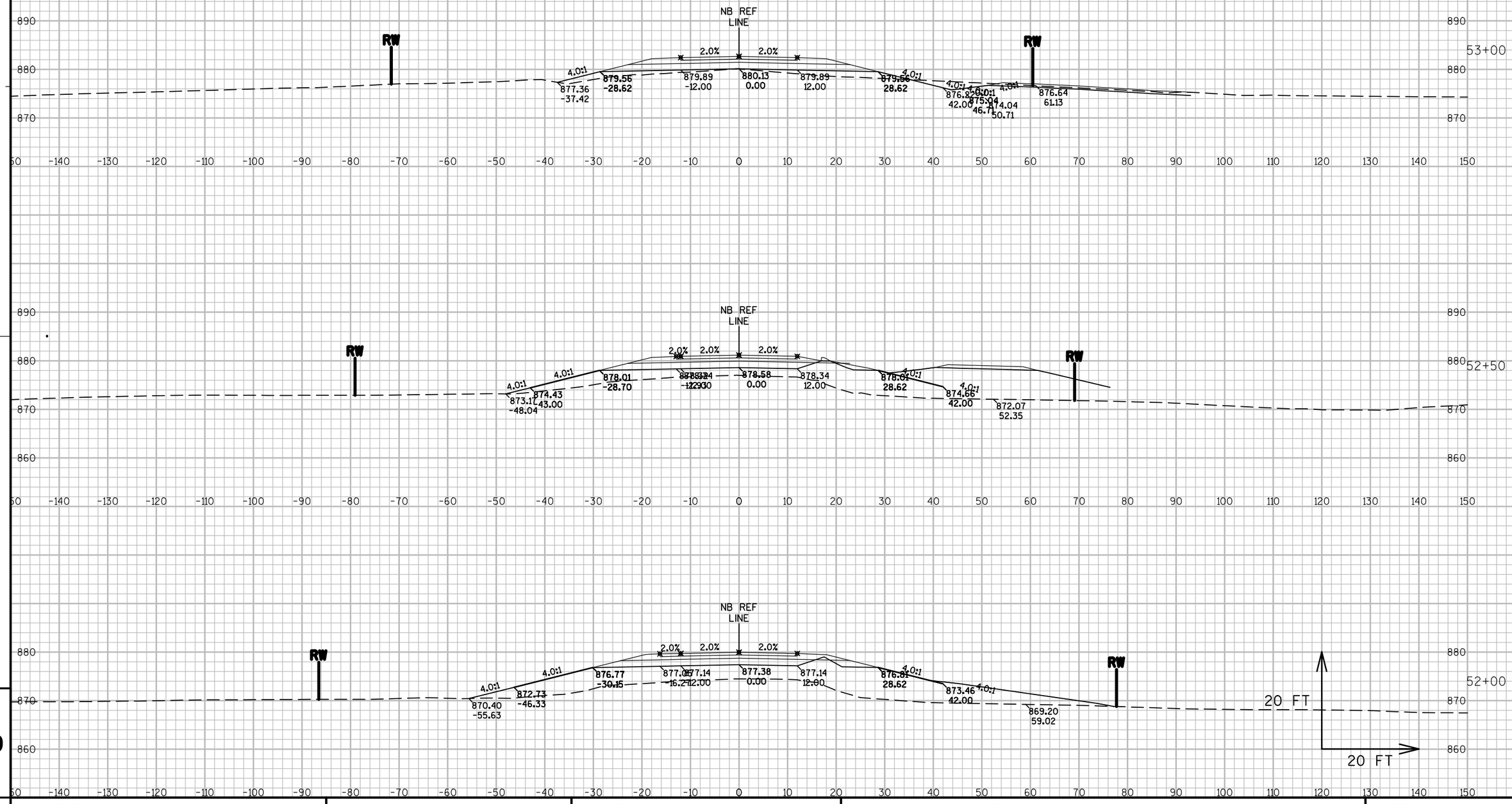
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 780	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (104)

PLOT DATE : 9/26/2014 2:00 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

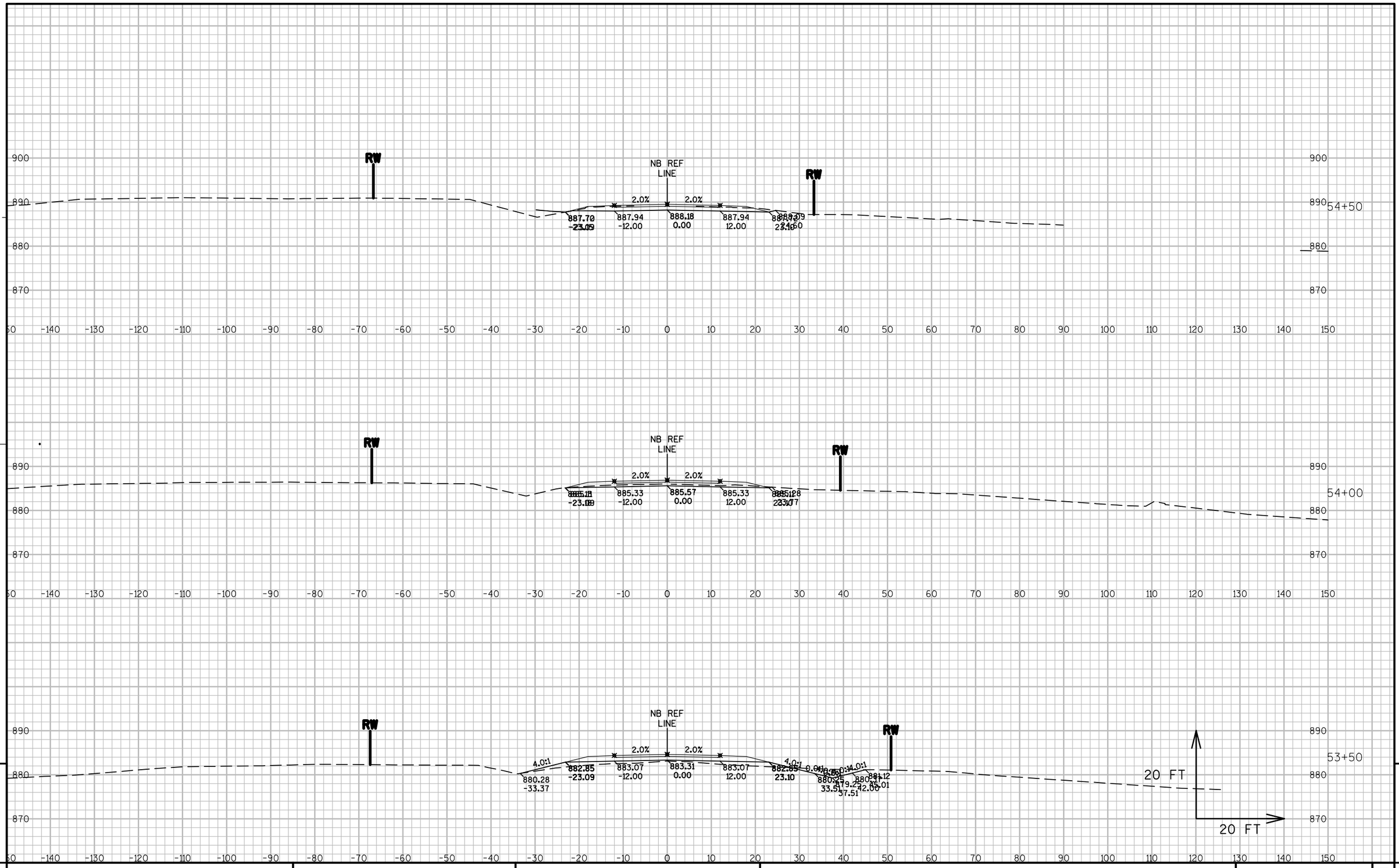


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 781	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (105)

PLOT DATE : 9/26/2014 2:00 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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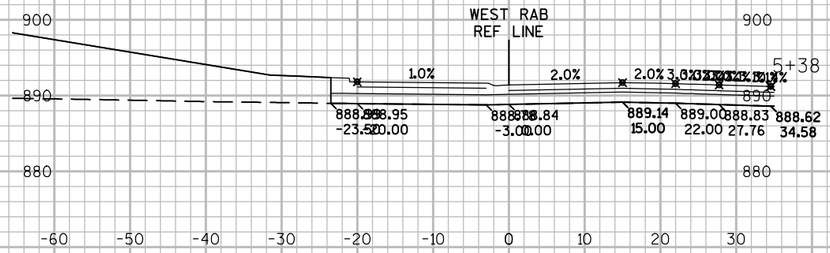
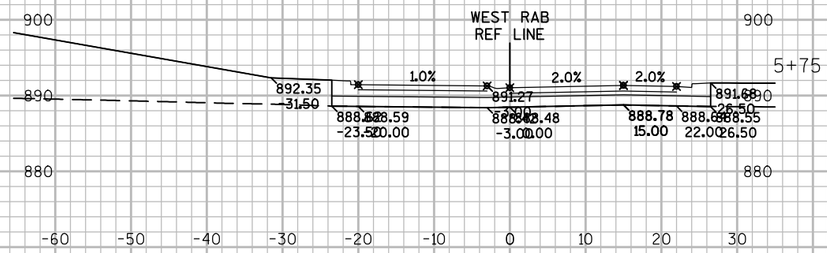
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35	SHEET 782	E

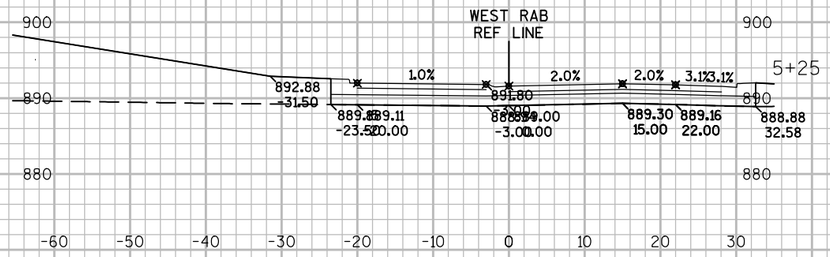
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090270_XS_STH35-CTH_E.DWG
LAYOUT NAME - XS - (106)

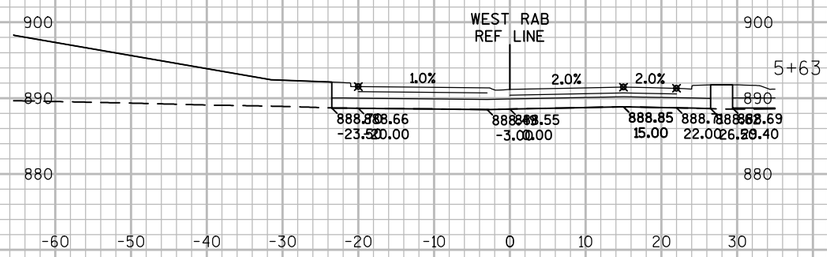
PLOT DATE : 9/26/2014 2:01 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

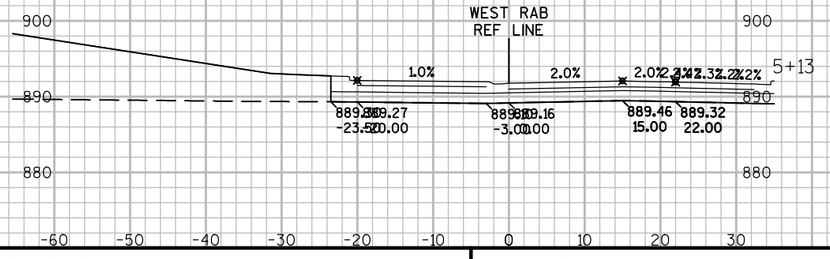
WISDOT/CADDS SHEET 49

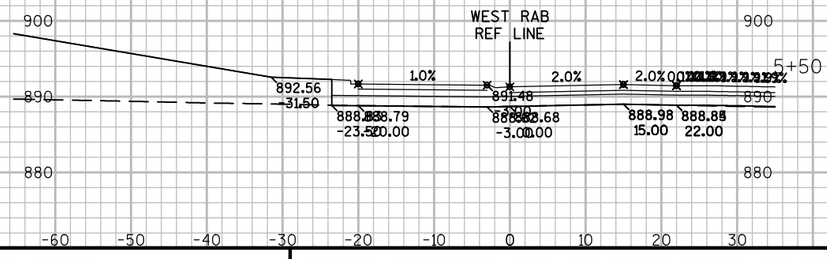


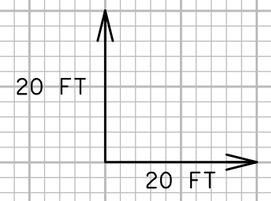












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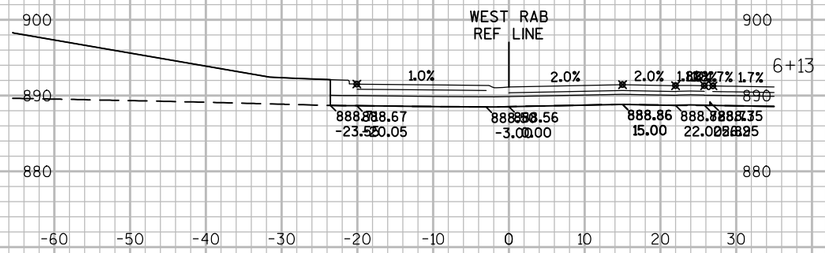
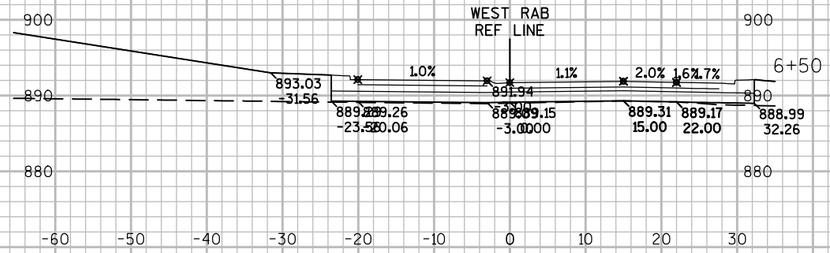
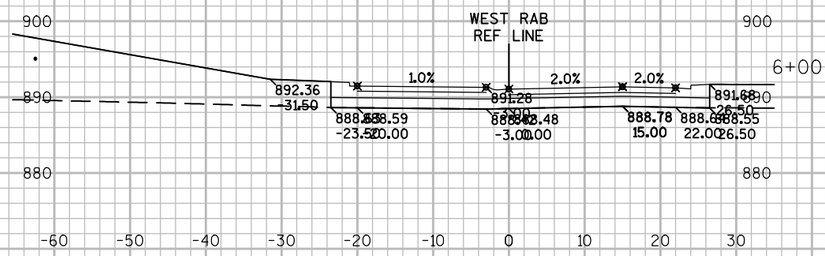
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 WEST TERM ROUNDABOUT	SHEET 783	E

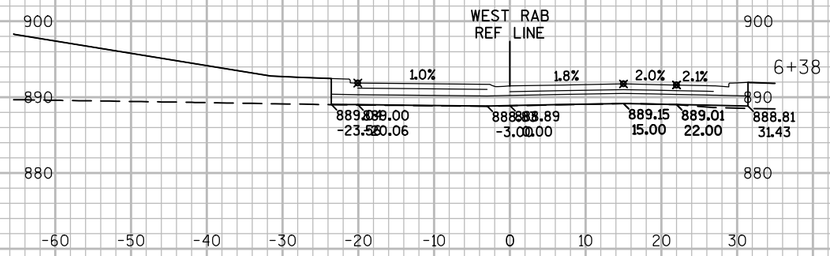
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_WEST RAB.DWG
LAYOUT NAME - XS - (1)

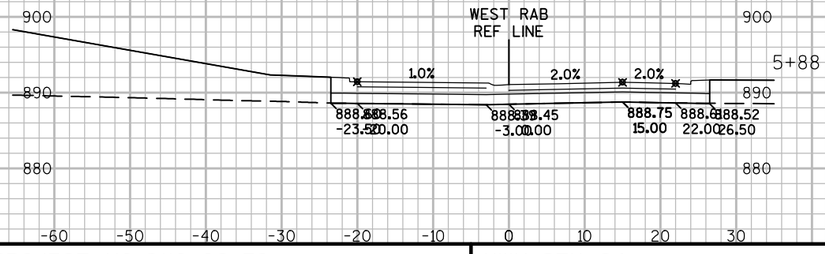
PLOT DATE : 9/26/2014 2:16 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

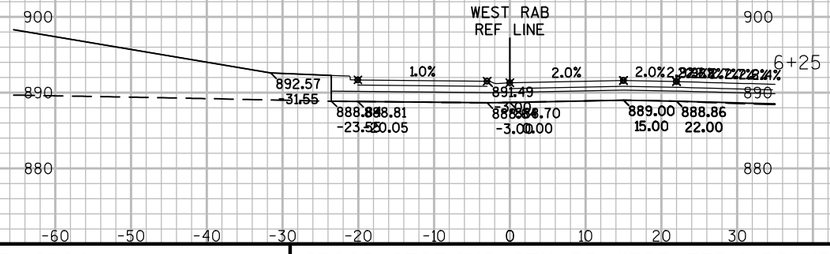


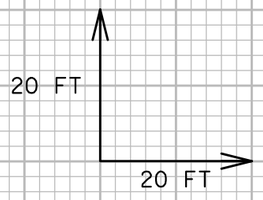












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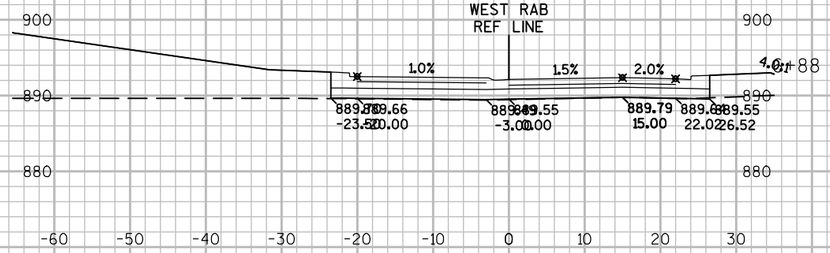
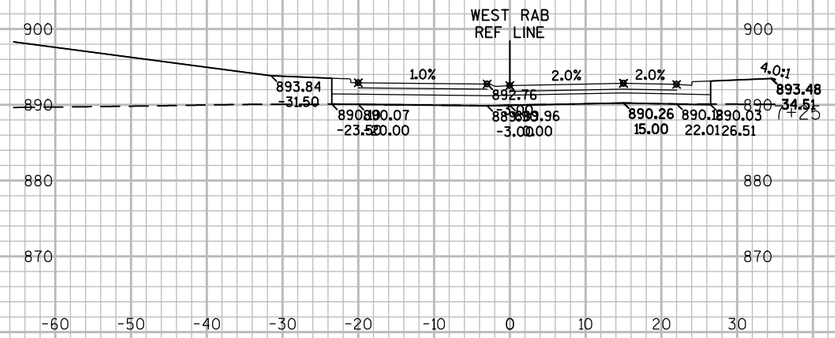
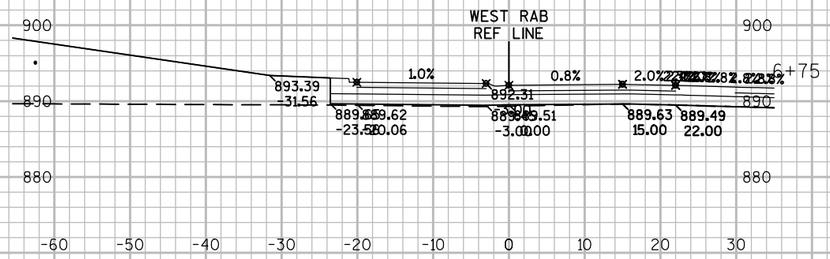
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 WEST TERM ROUNDABOUT	SHEET 784	E

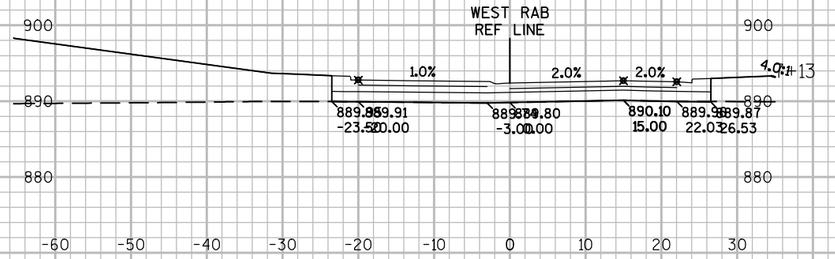
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_WEST RAB.DWG
LAYOUT NAME - XS - (2)

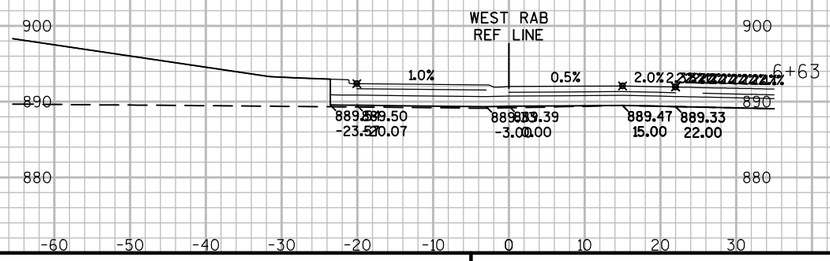
PLOT DATE : 9/26/2014 2:16 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

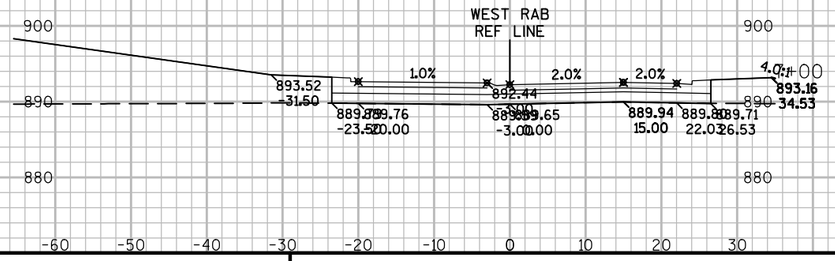


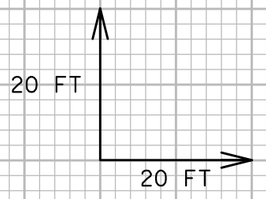












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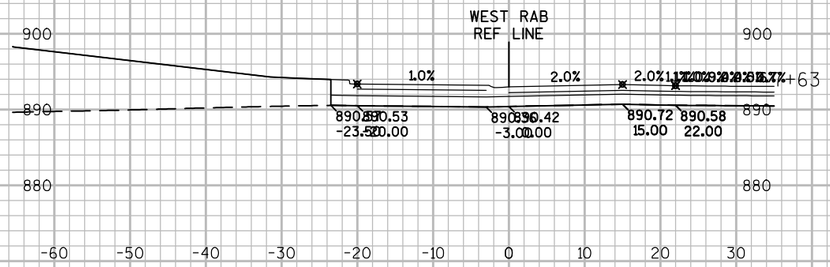
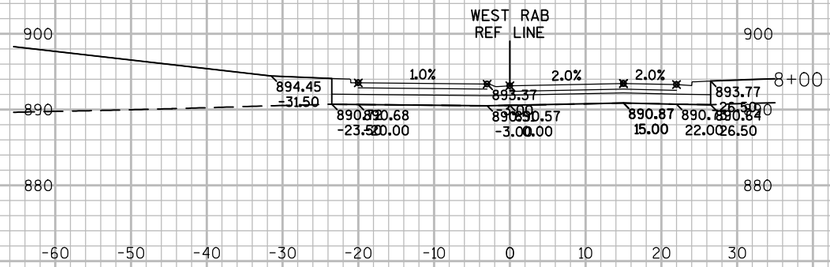
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 WEST TERM ROUNDABOUT	SHEET 785	E

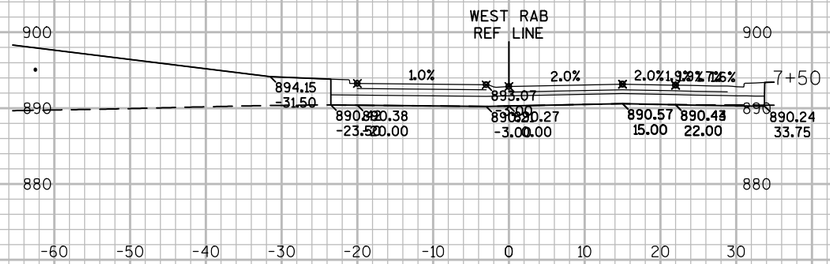
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_WEST RAB.DWG
LAYOUT NAME - XS - (3)

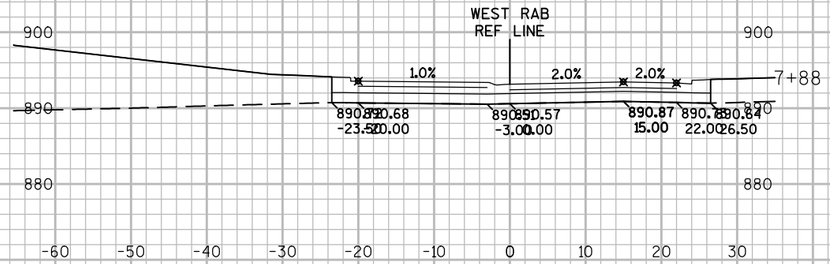
PLOT DATE : 9/26/2014 2:16 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

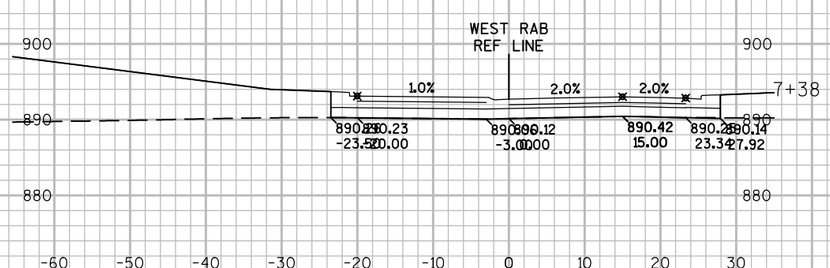
WISDOT/CADDS SHEET 49

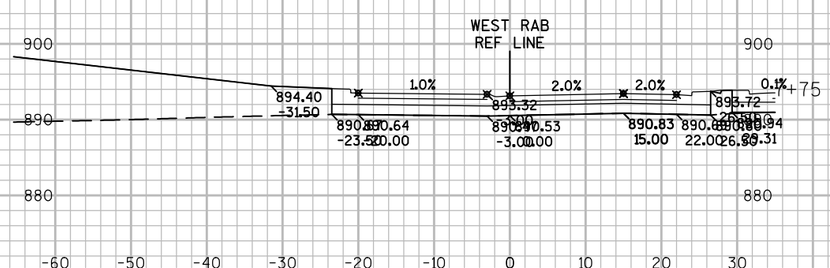


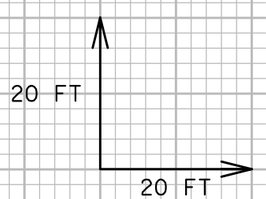












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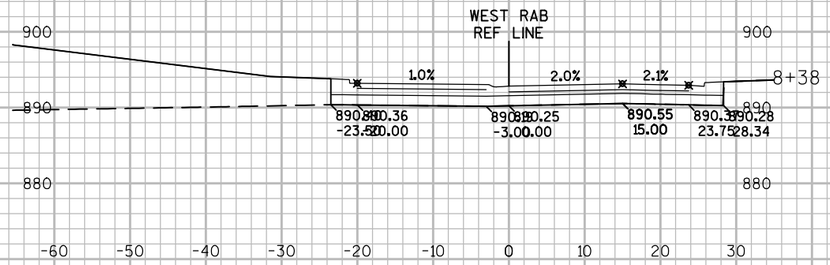
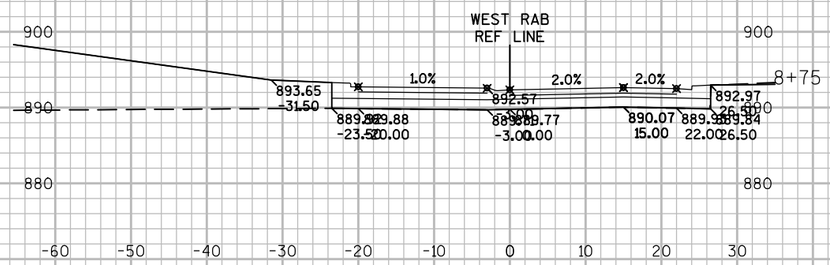
9

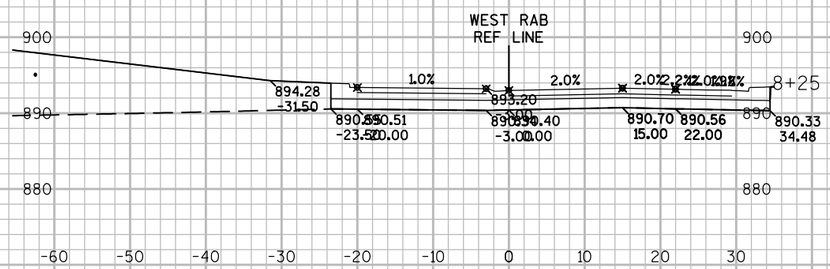
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 WEST TERM ROUNDABOUT	SHEET 786	E

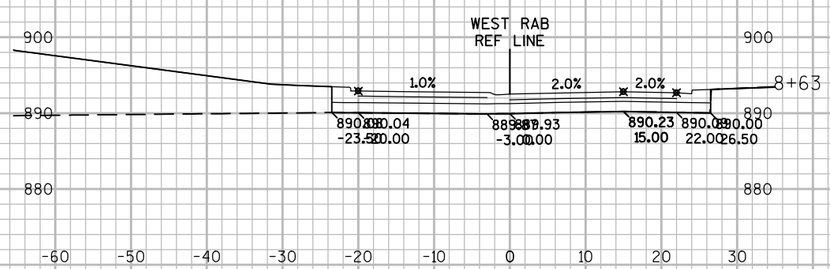
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_WEST RAB.DWG
LAYOUT NAME - XS - (4)

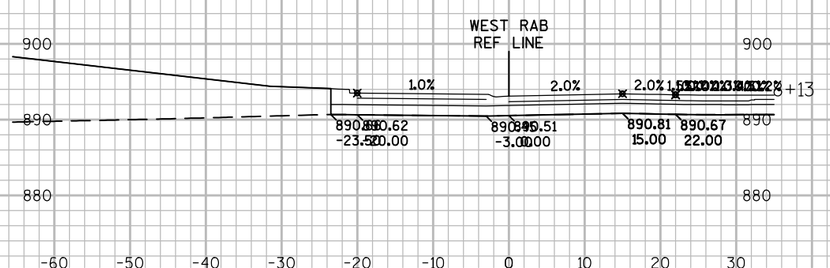
PLOT DATE : 9/26/2014 2:17 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

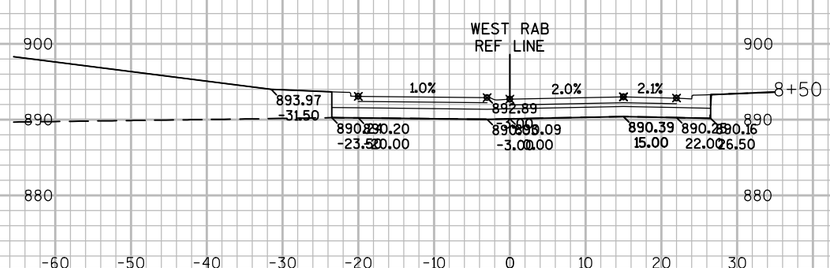


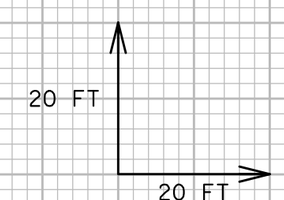












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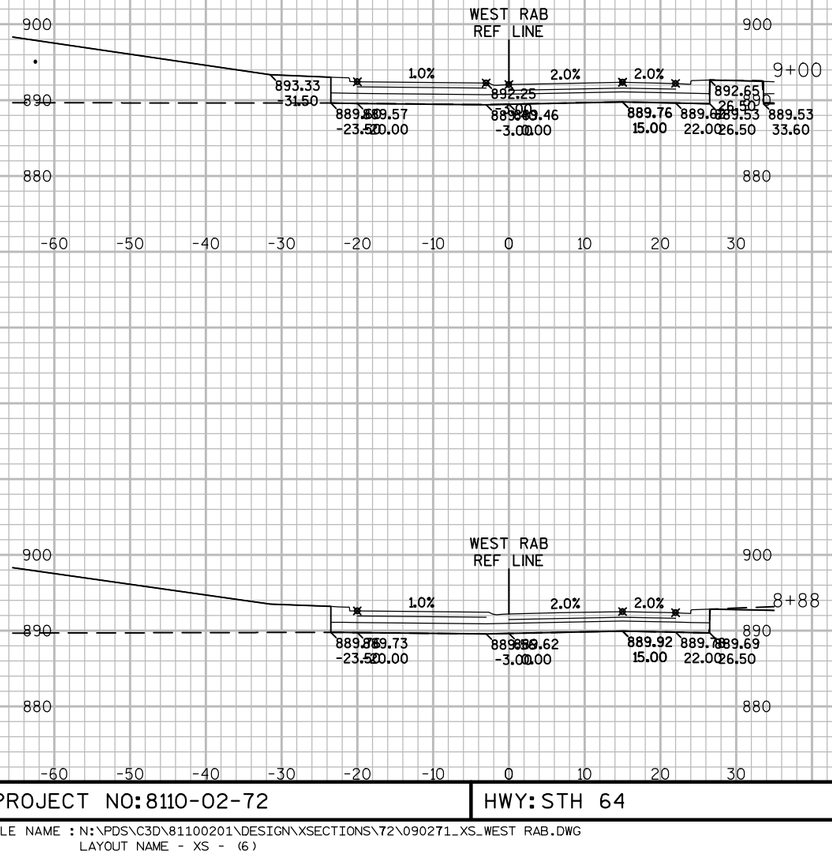
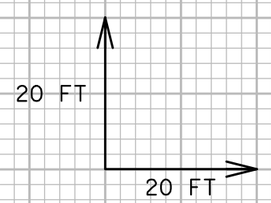
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 WEST TERM ROUNDABOUT	SHEET 787	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_WEST RAB.DWG
LAYOUT NAME - XS - (5)

PLOT DATE : 9/26/2014 2:17 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49





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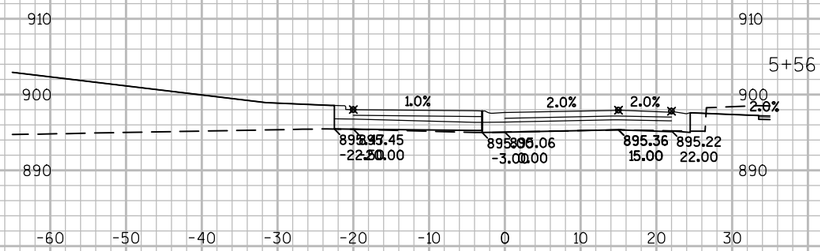
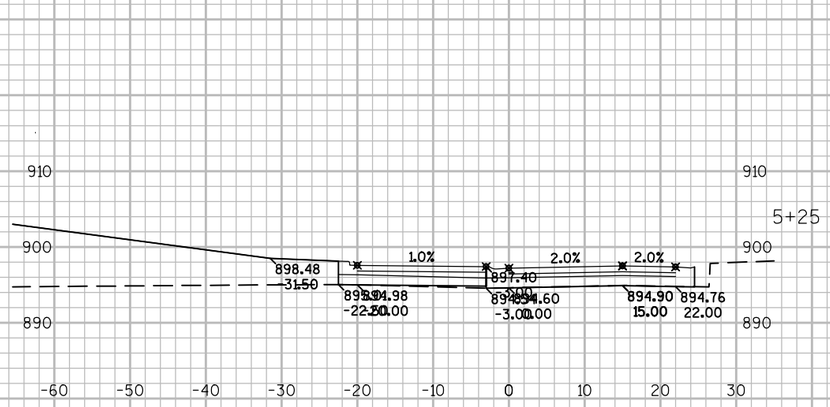
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 WEST TERM ROUNDABOUT	SHEET 788	E

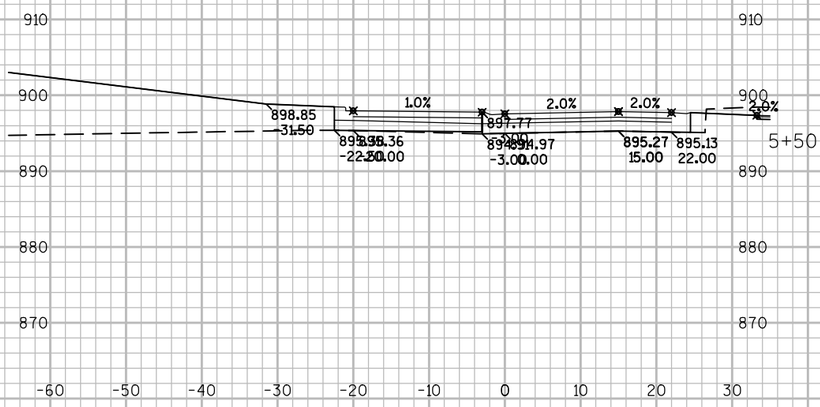
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_WEST RAB.DWG
LAYOUT NAME - XS - (6)

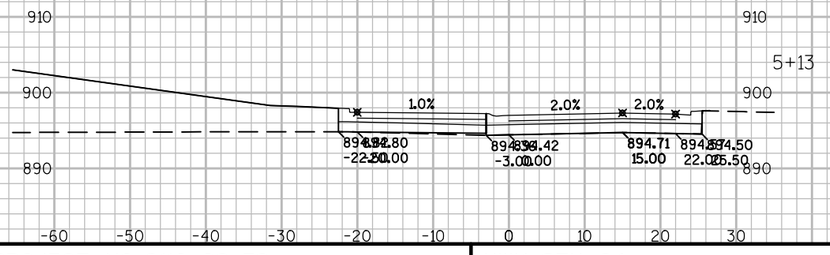
PLOT DATE : 9/26/2014 2:17 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

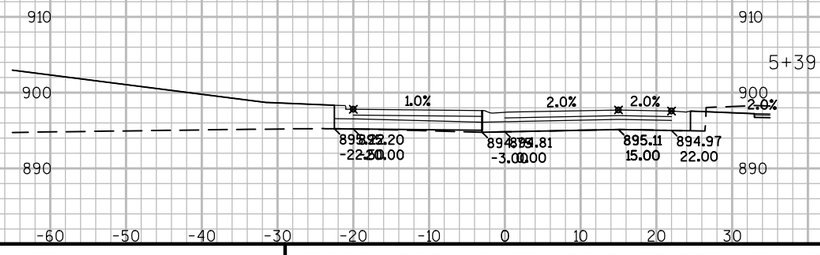
WISDOT/CADDS SHEET 49

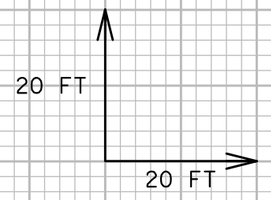












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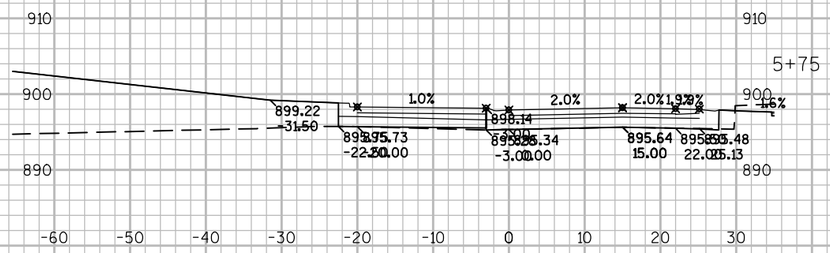
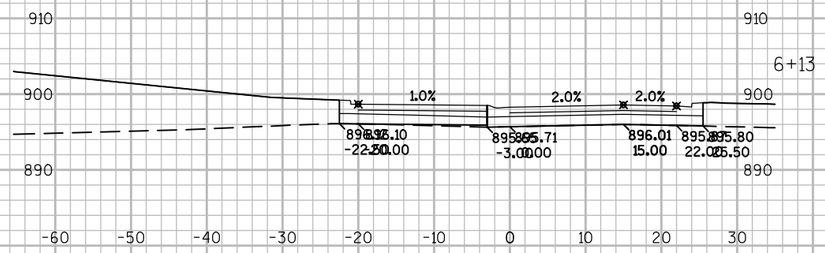
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 EAST TERM ROUNDABOUT	SHEET 789	E

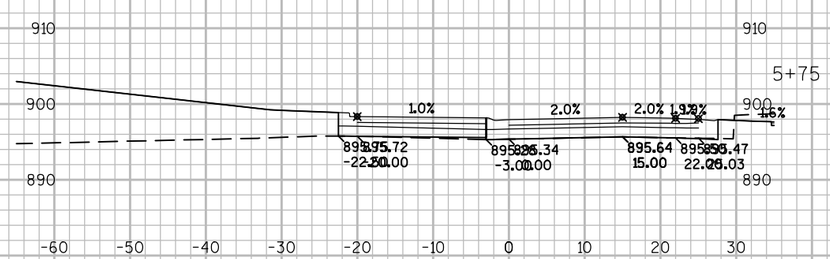
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_EAST RAB.DWG
LAYOUT NAME - XS - (7)

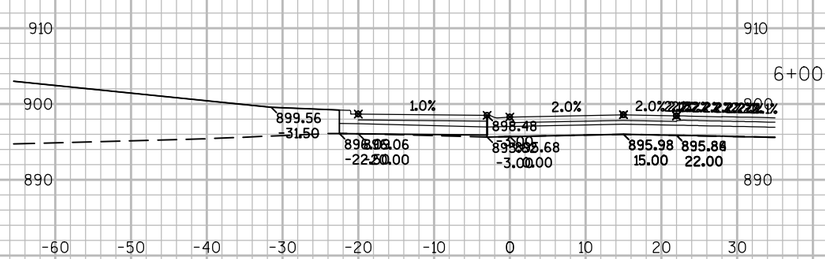
PLOT DATE : 9/26/2014 2:09 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

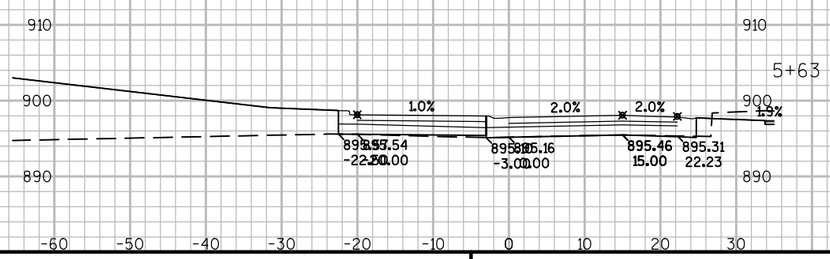
WISDOT/CADDS SHEET 49

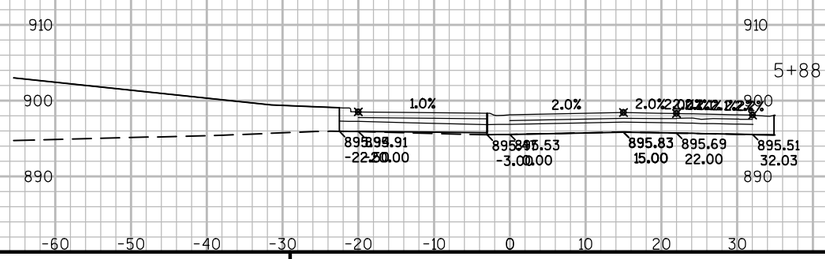


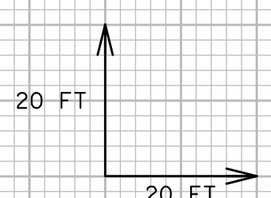












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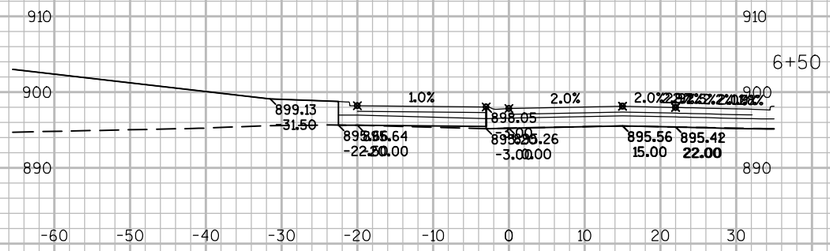
9

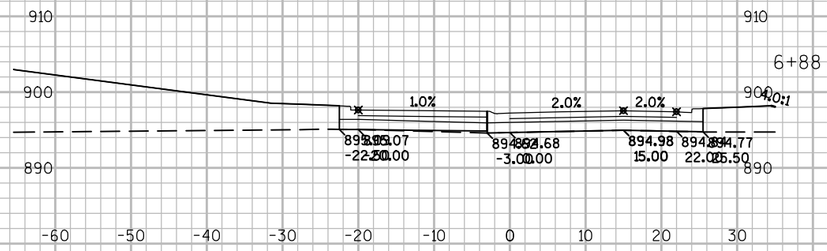
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 EAST TERM ROUNDABOUT	SHEET 790	E

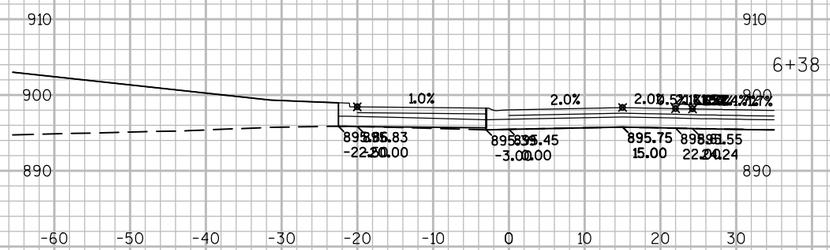
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_EAST RAB.DWG
LAYOUT NAME - XS - (8)

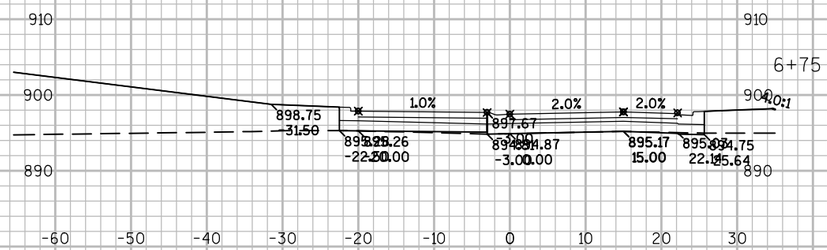
PLOT DATE : 9/26/2014 2:09 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

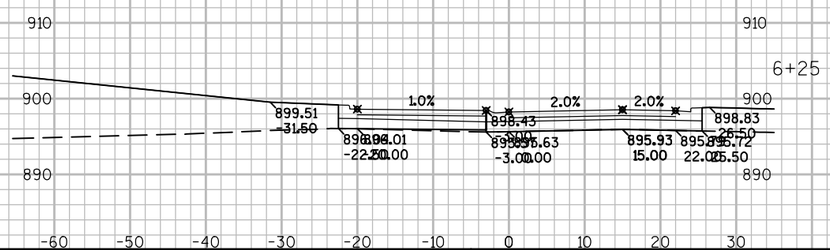
WISDOT/CADDS SHEET 49

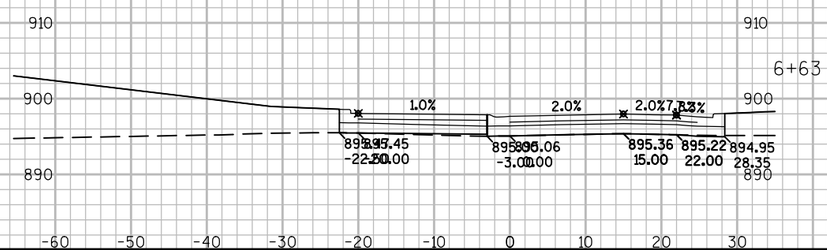


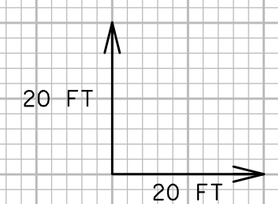












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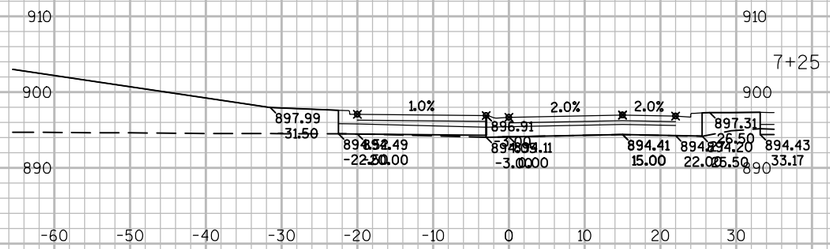
9

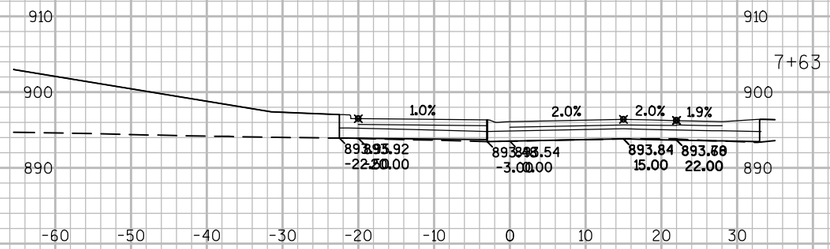
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 EAST TERM ROUNDABOUT	SHEET 791	E

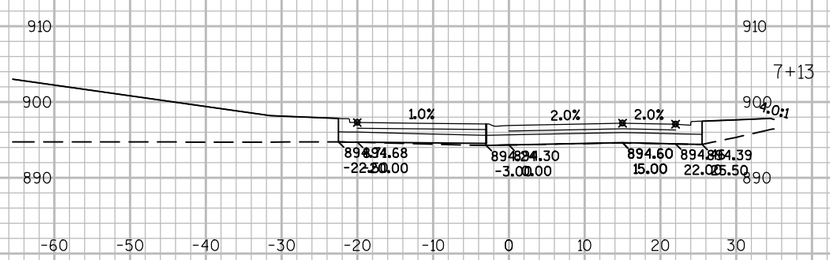
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_EAST RAB.DWG
LAYOUT NAME - XS - (9)

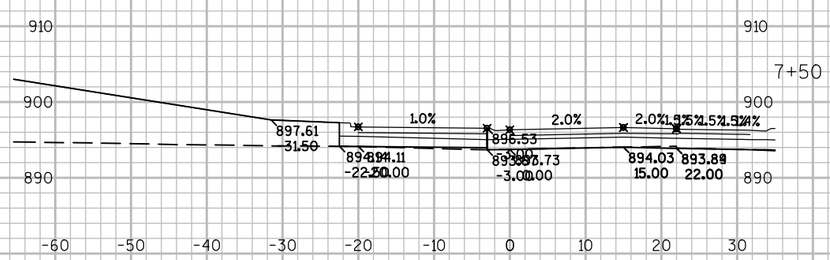
PLOT DATE : 9/26/2014 2:09 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

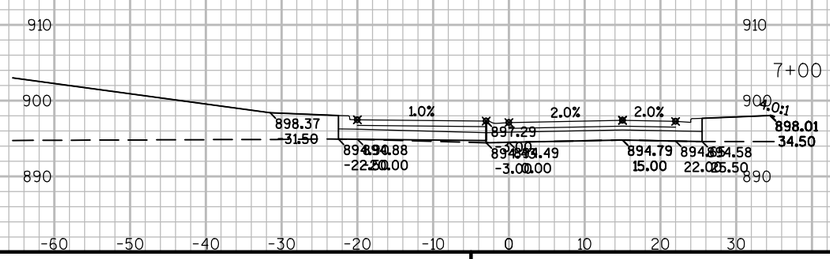
WISDOT/CADDS SHEET 49

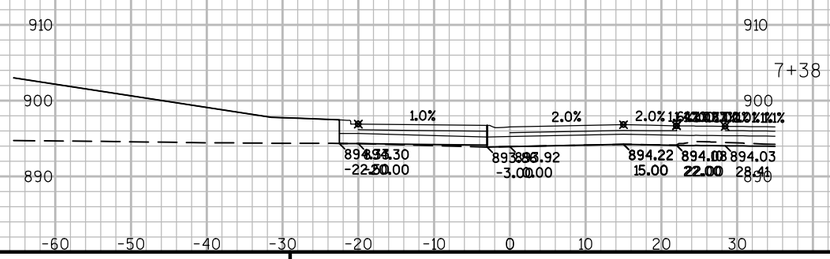


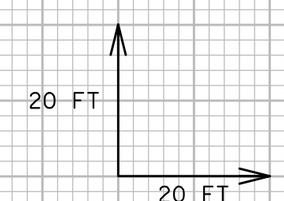












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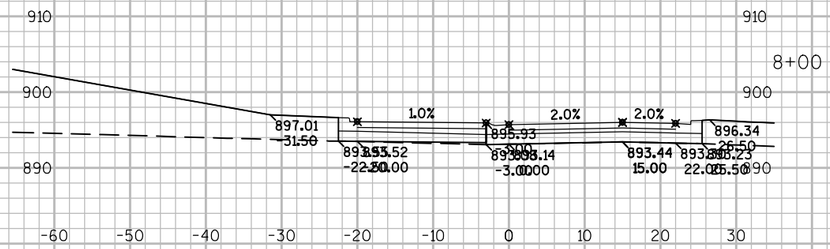
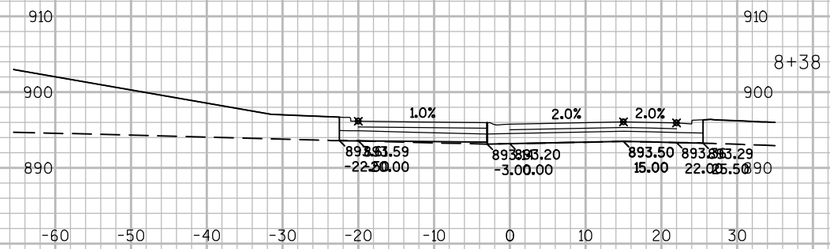
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 EAST TERM ROUNDABOUT	SHEET 792	E

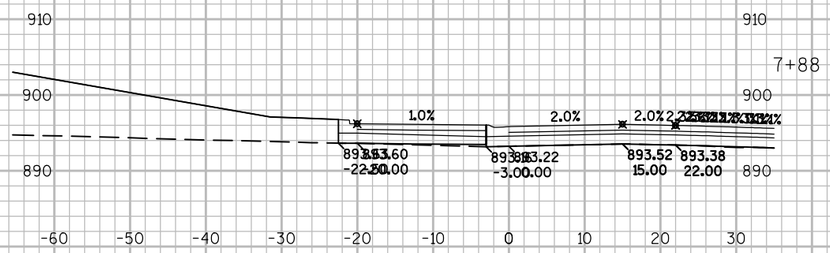
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_EAST RAB.DWG
LAYOUT NAME - XS - (10)

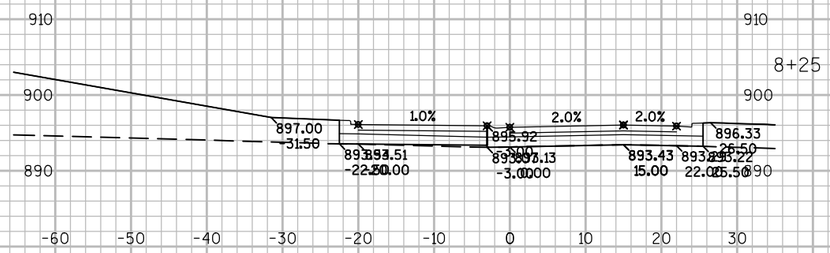
PLOT DATE : 9/26/2014 2:09 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

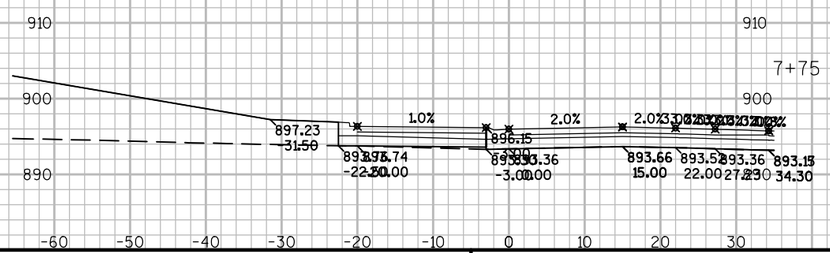
WISDOT/CADDS SHEET 49

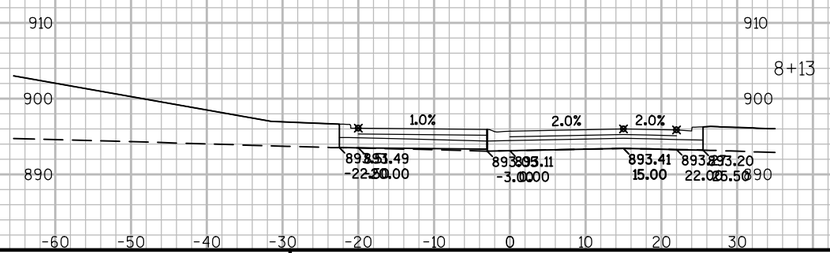


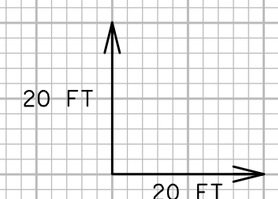












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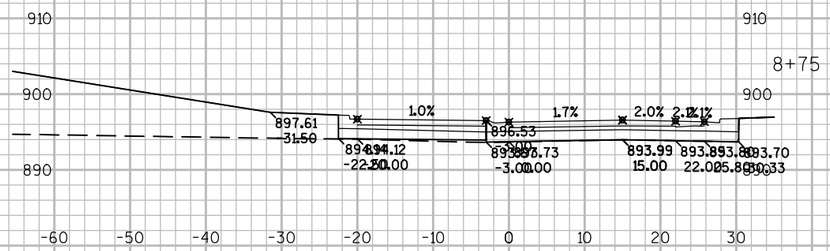
9

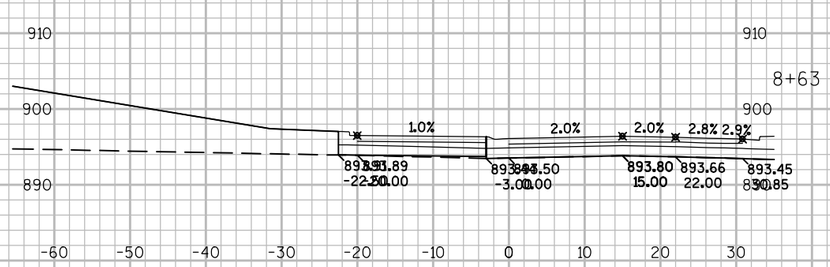
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 EAST TERM ROUNDABOUT	SHEET 793	E

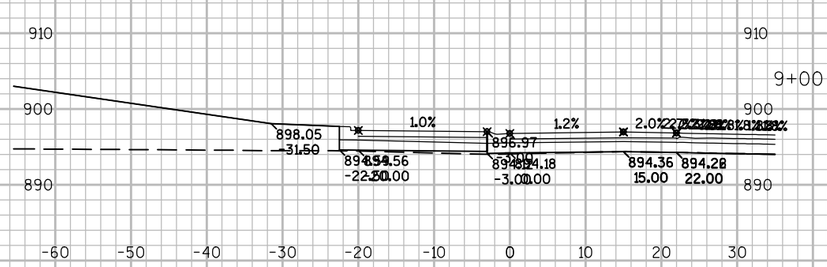
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_EAST RAB.DWG
LAYOUT NAME - XS - (11)

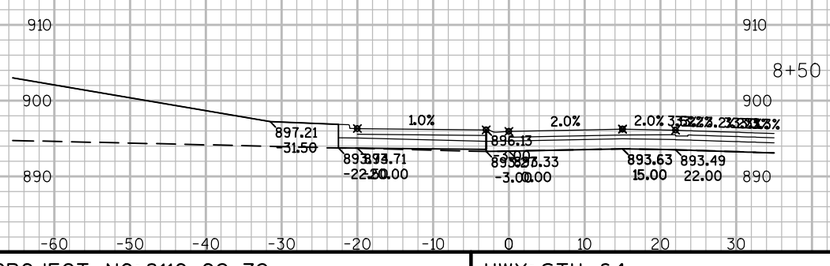
PLOT DATE : 9/26/2014 2:10 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

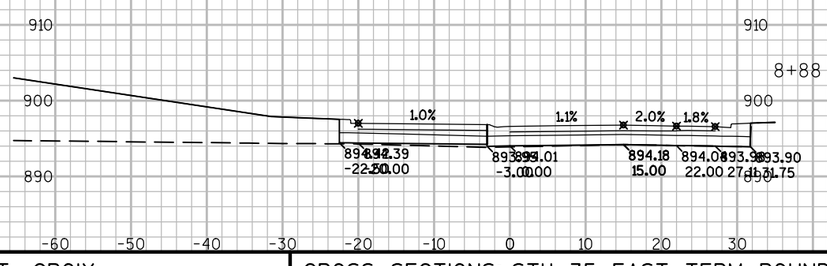
WISDOT/CADDS SHEET 49

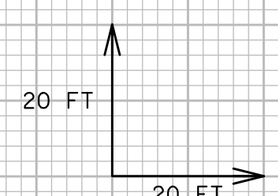












9

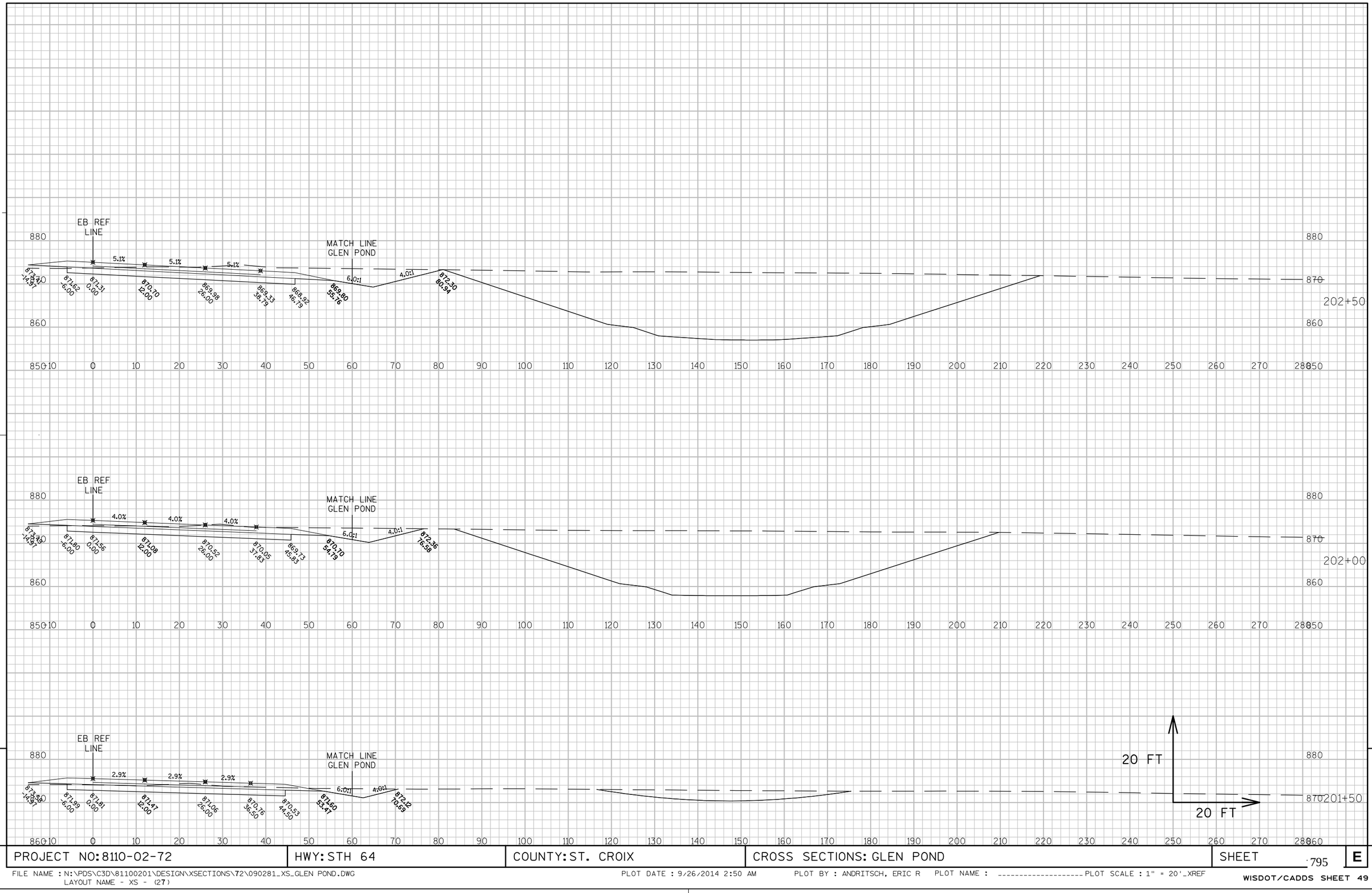
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 EAST TERM ROUNDABOUT	SHEET 794	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090271_XS_EAST RAB.DWG
LAYOUT NAME - XS - (12)

PLOT DATE : 9/26/2014 2:10 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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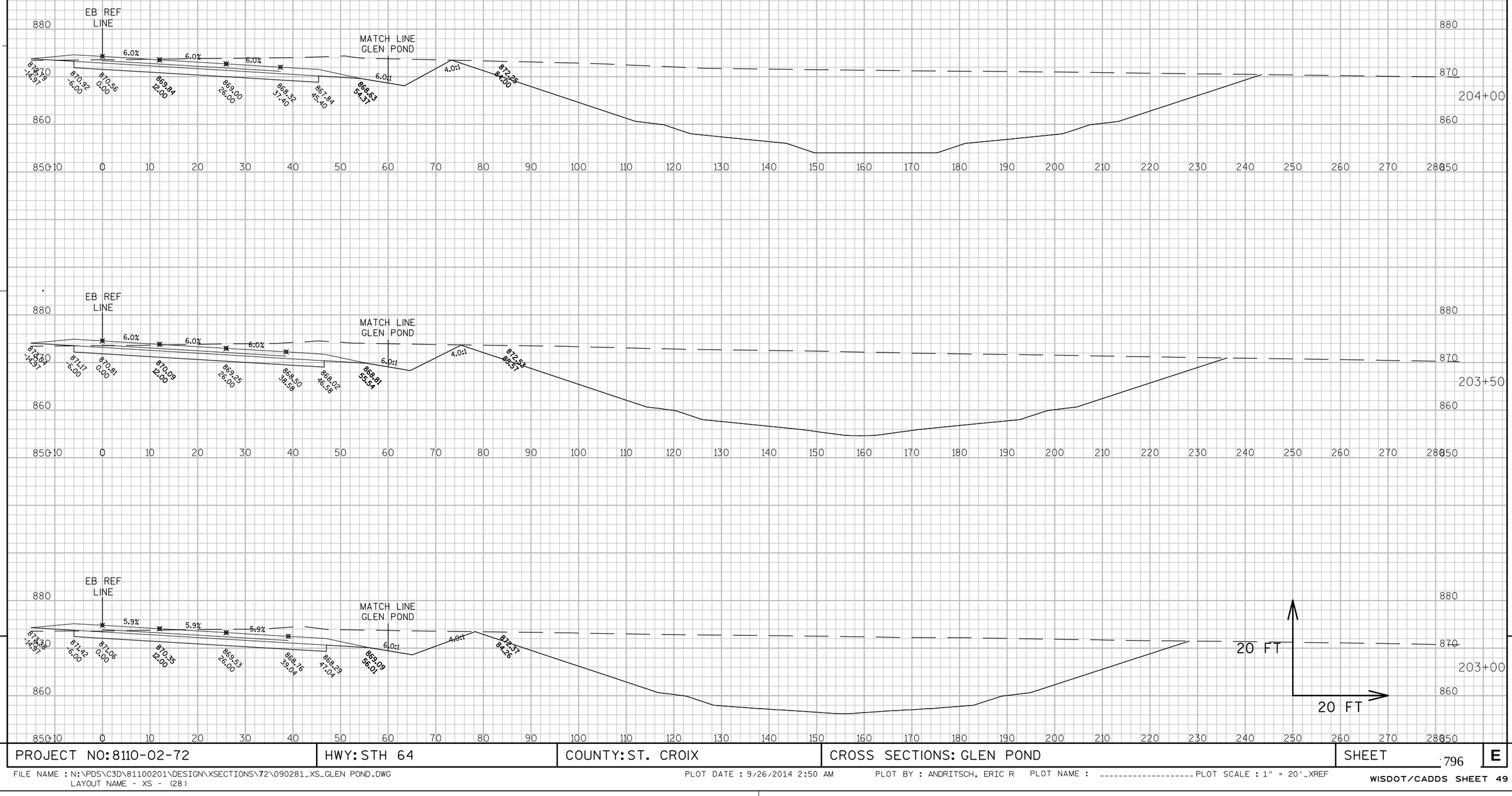
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: GLEN POND	SHEET 795	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090281_XS_GLEN POND.DWG
LAYOUT NAME - XS - (27)
PLOT DATE : 9/26/2014 2:50 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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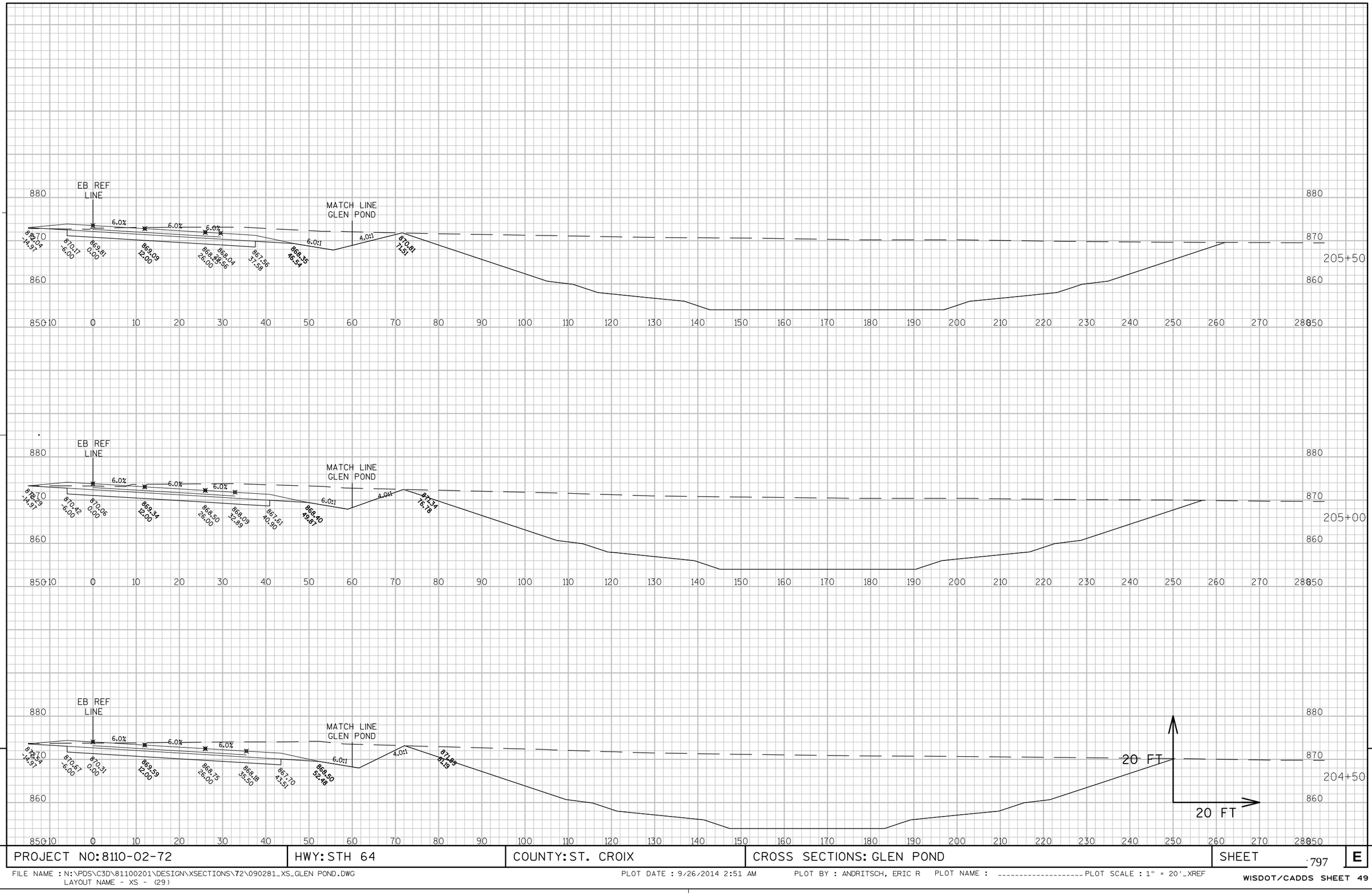
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: GLEN POND	SHEET 796	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090281_XS_GLEN POND.DWG
LAYOUT NAME - XS - (28)

PLOT DATE : 9/26/2014 2:50 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF



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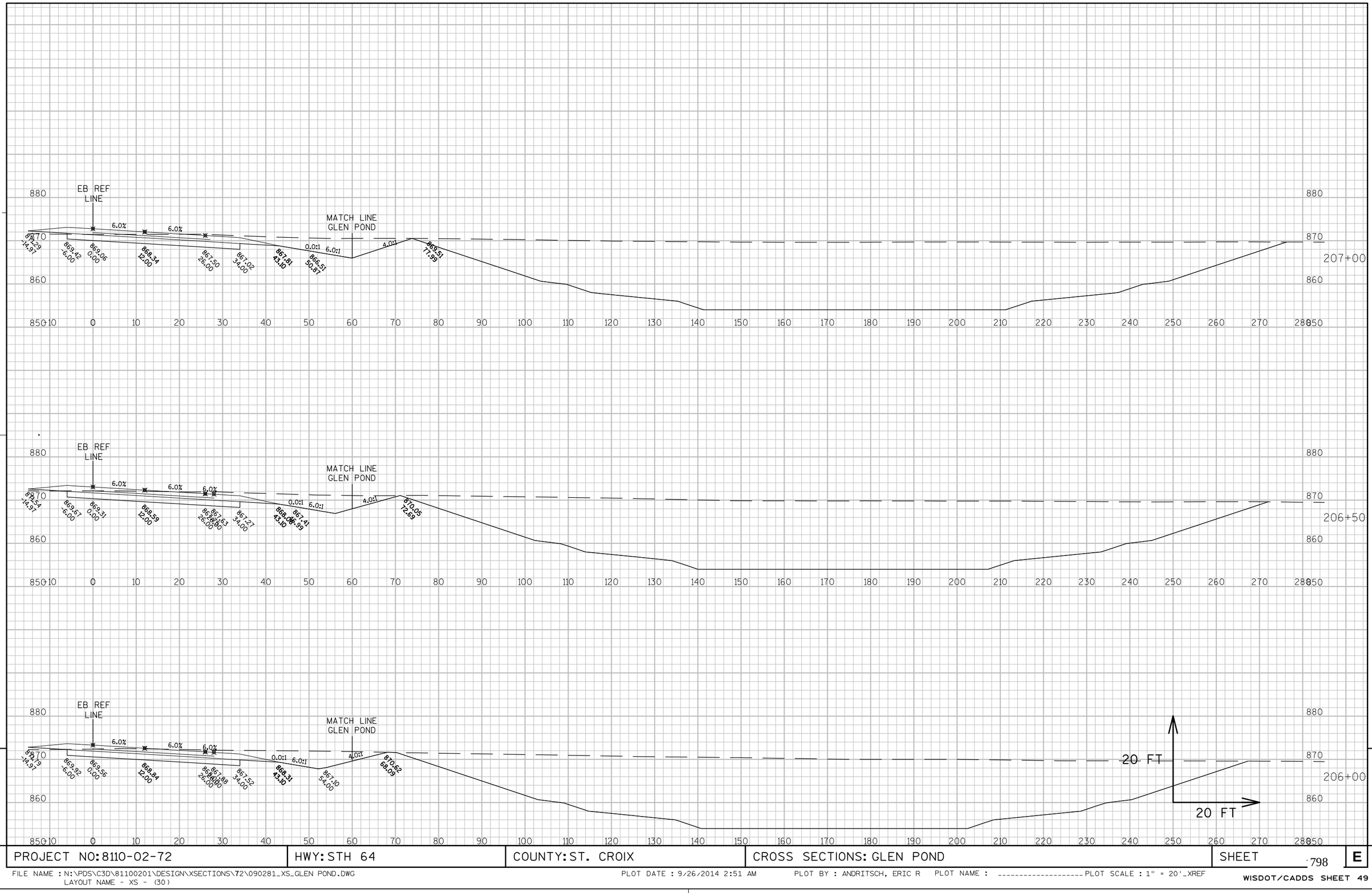
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: GLEN POND	SHEET 797	E

9

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090281_XS_GLEN POND.DWG
LAYOUT NAME - XS - (29)

PLOT DATE : 9/26/2014 2:51 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

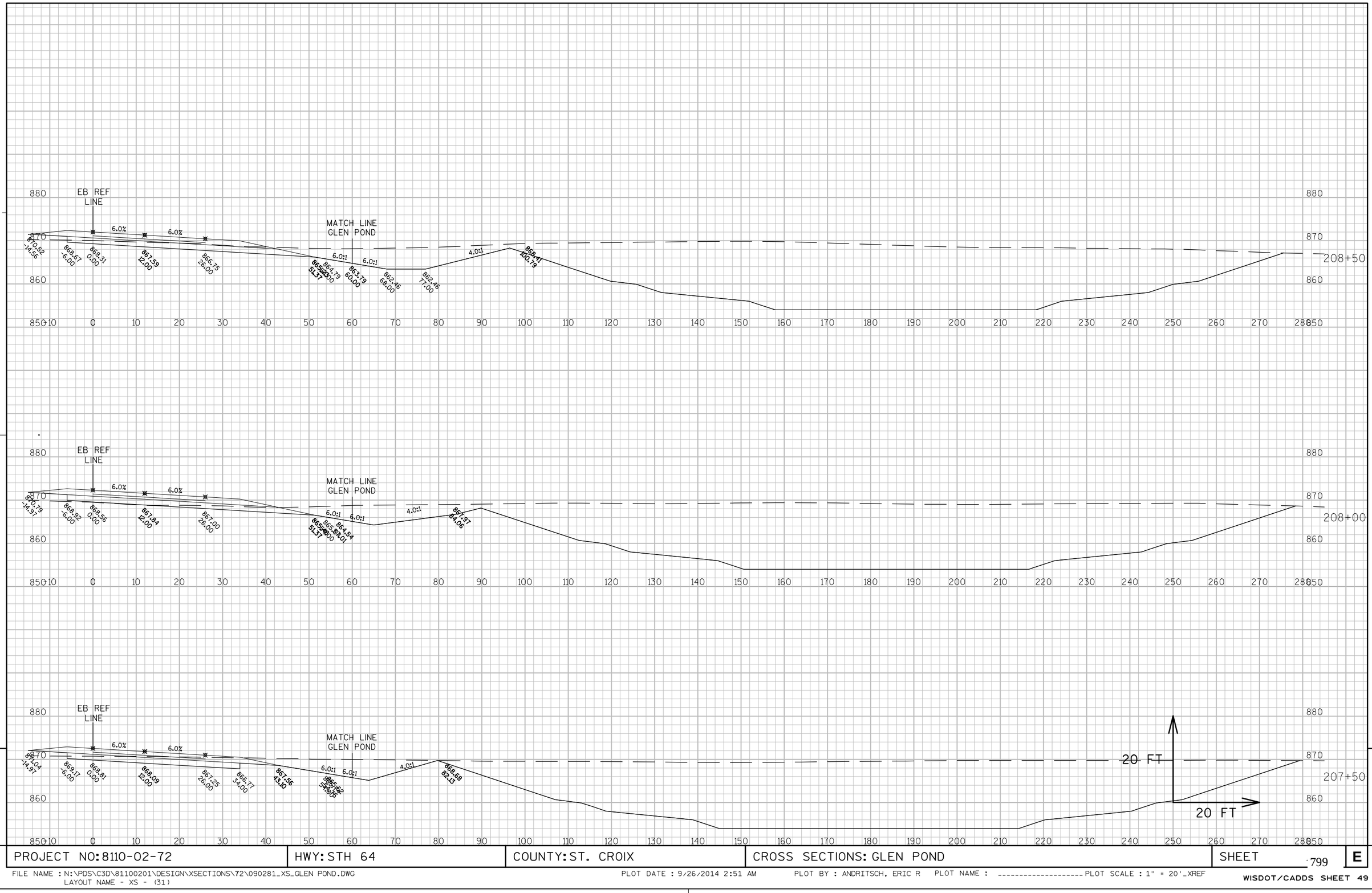


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: GLEN POND	SHEET 798	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090281_XS_GLEN POND.DWG
LAYOUT NAME - XS - (30)

PLOT DATE : 9/26/2014 2:51 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

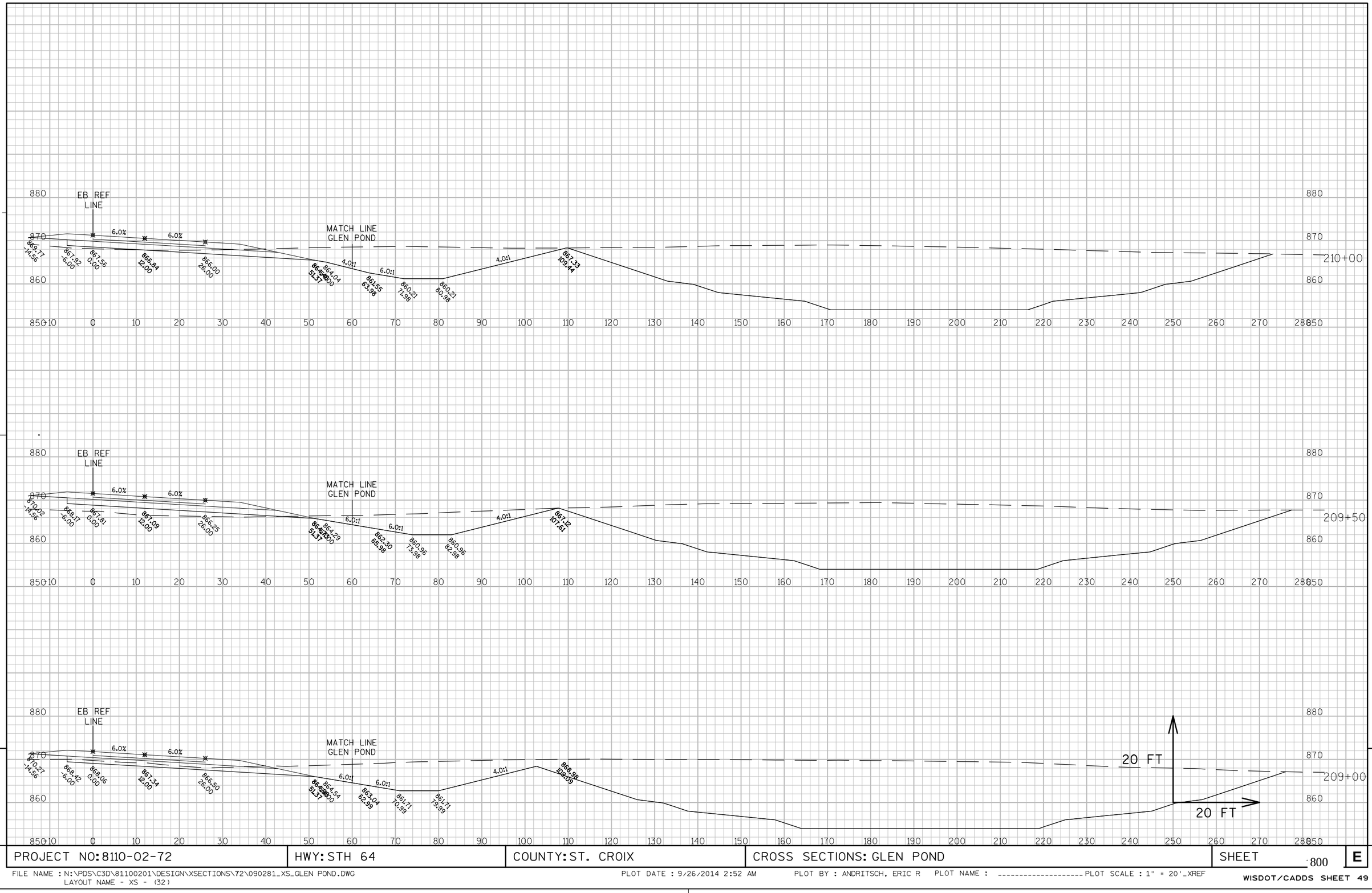


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: GLEN POND	SHEET 799	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090281_XS_GLEN POND.DWG
LAYOUT NAME - XS - (31)

PLOT DATE : 9/26/2014 2:51 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

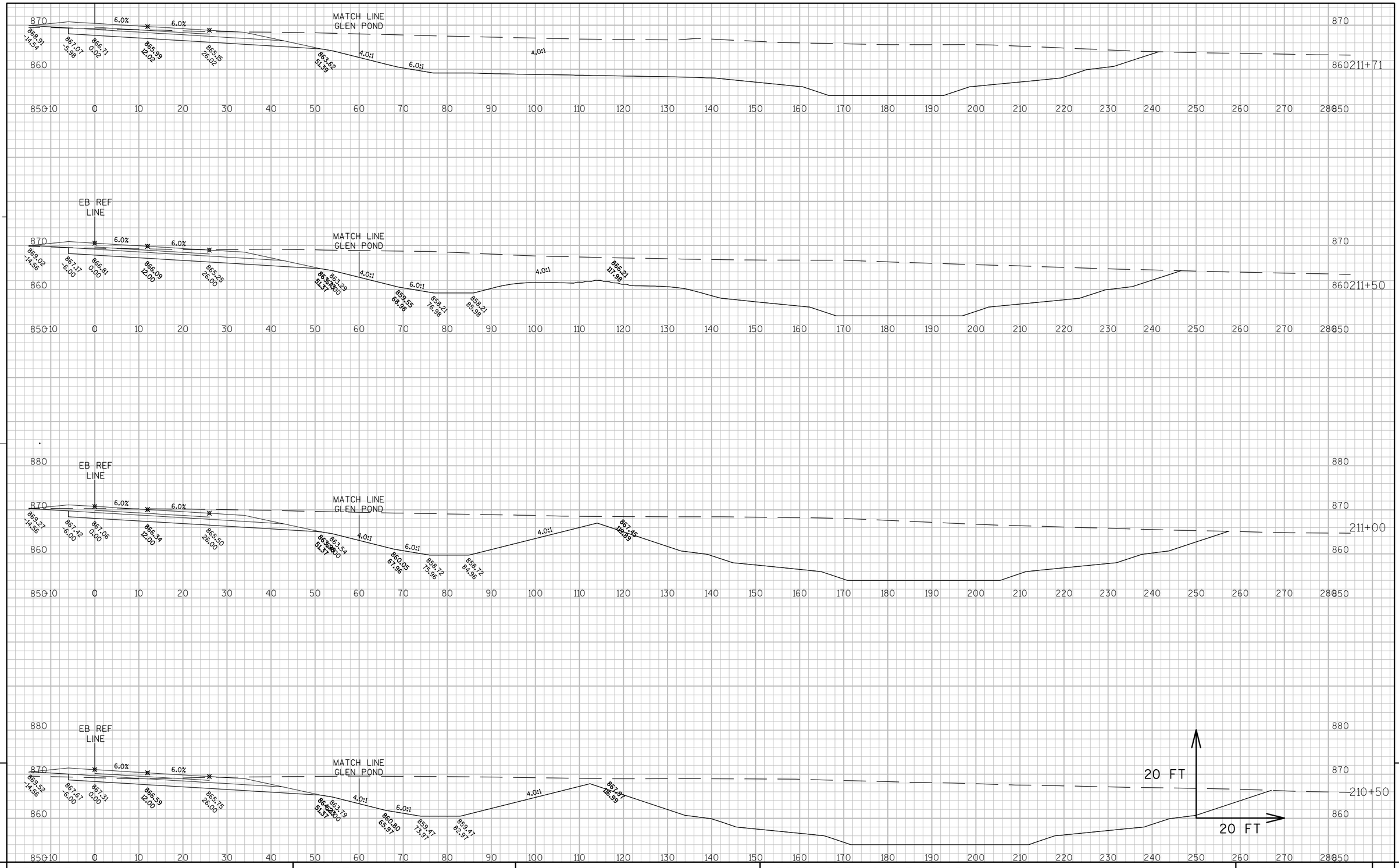
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: GLEN POND	SHEET 800	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090281_XS_GLEN POND.DWG
LAYOUT NAME - XS - (32)

PLOT DATE : 9/26/2014 2:52 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF



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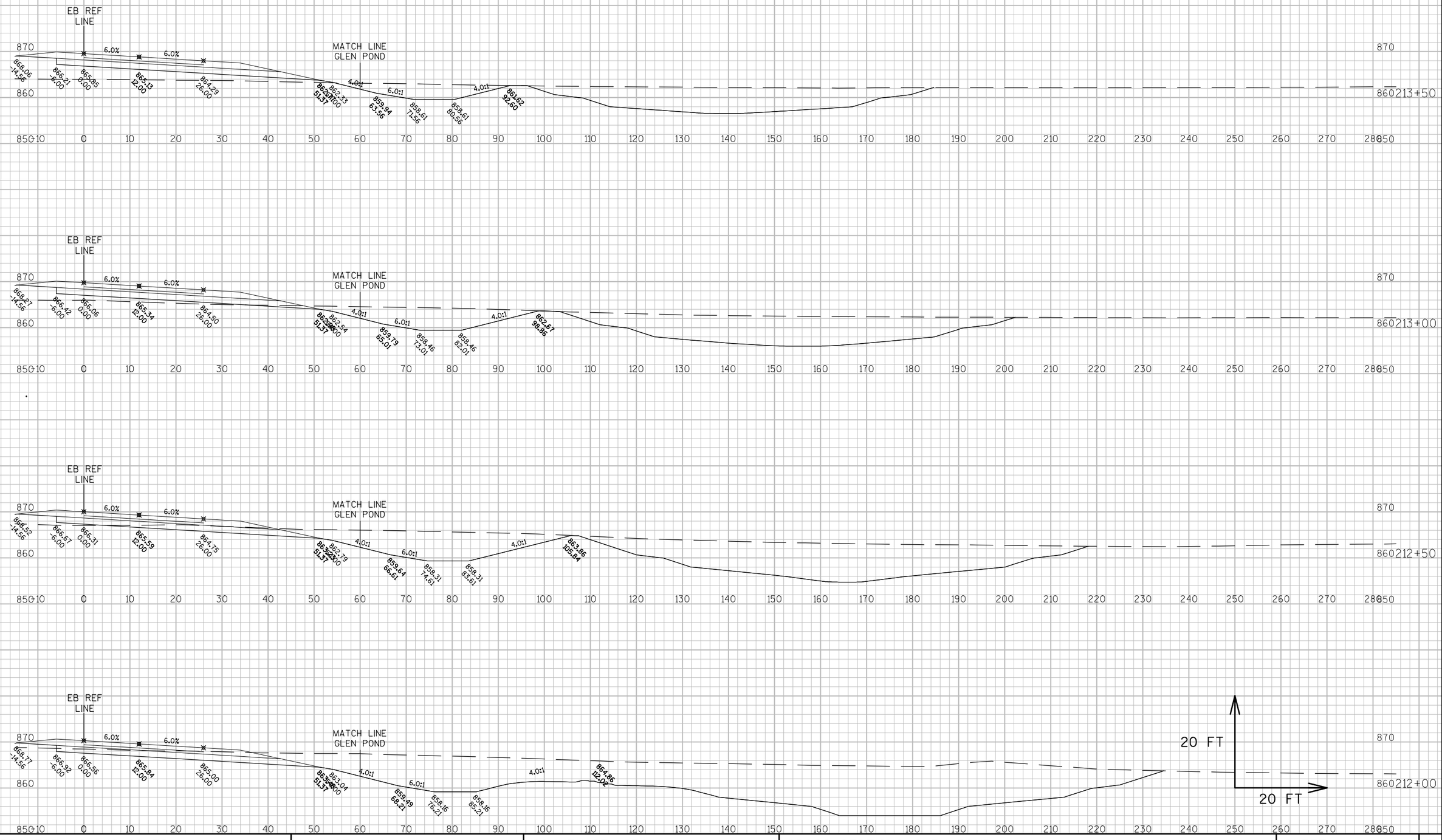
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: GLEN POND	SHEET 801	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090281_XS_GLEN POND.DWG
LAYOUT NAME - XS - (33)

PLOT DATE : 9/26/2014 2:52 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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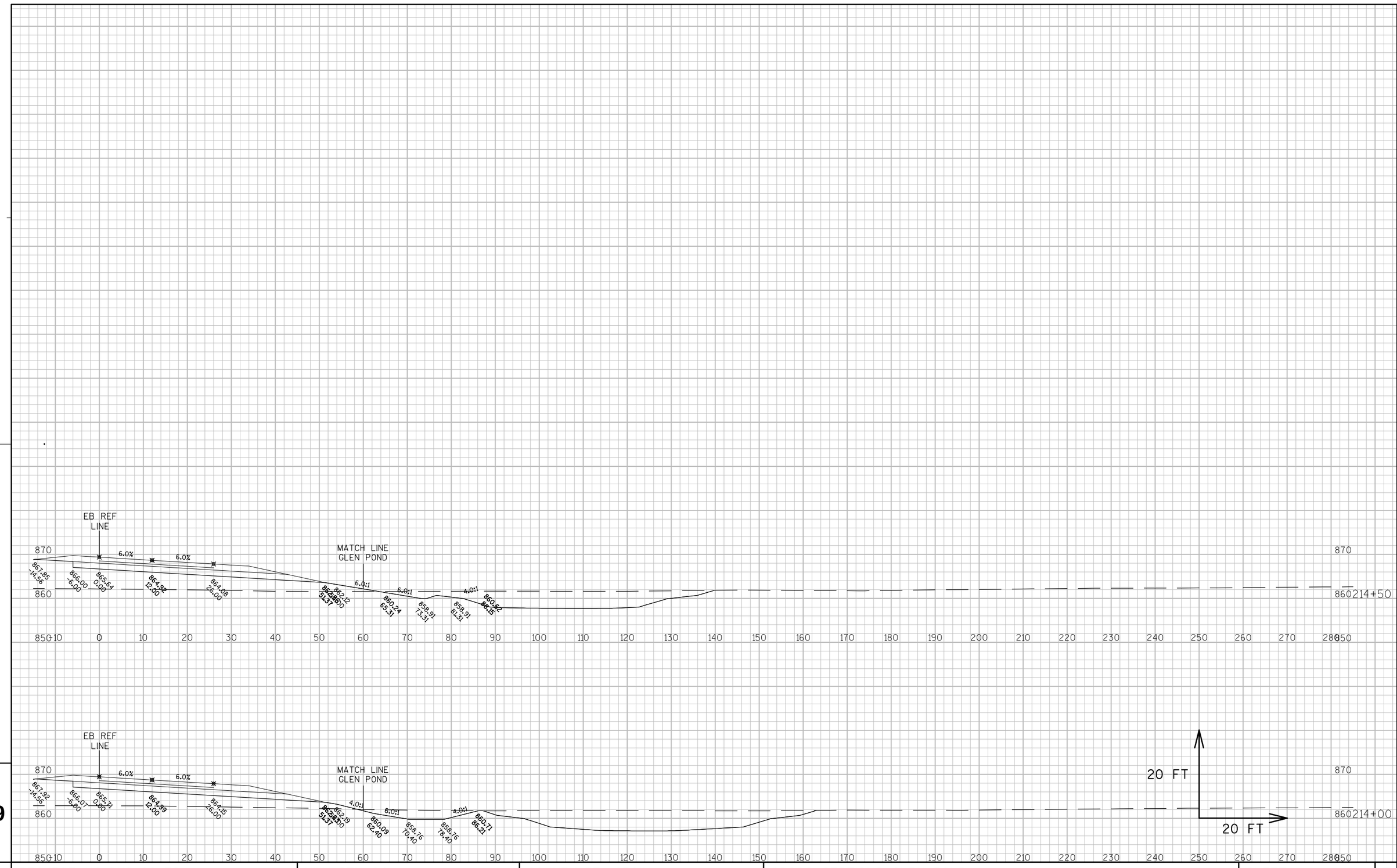
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: GLEN POND	SHEET 802	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090281_XS_GLEN POND.DWG
LAYOUT NAME - XS - (34)
PLOT DATE : 9/26/2014 2:53 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME : ----------
PLOT SCALE : 1" = 20'_XREF

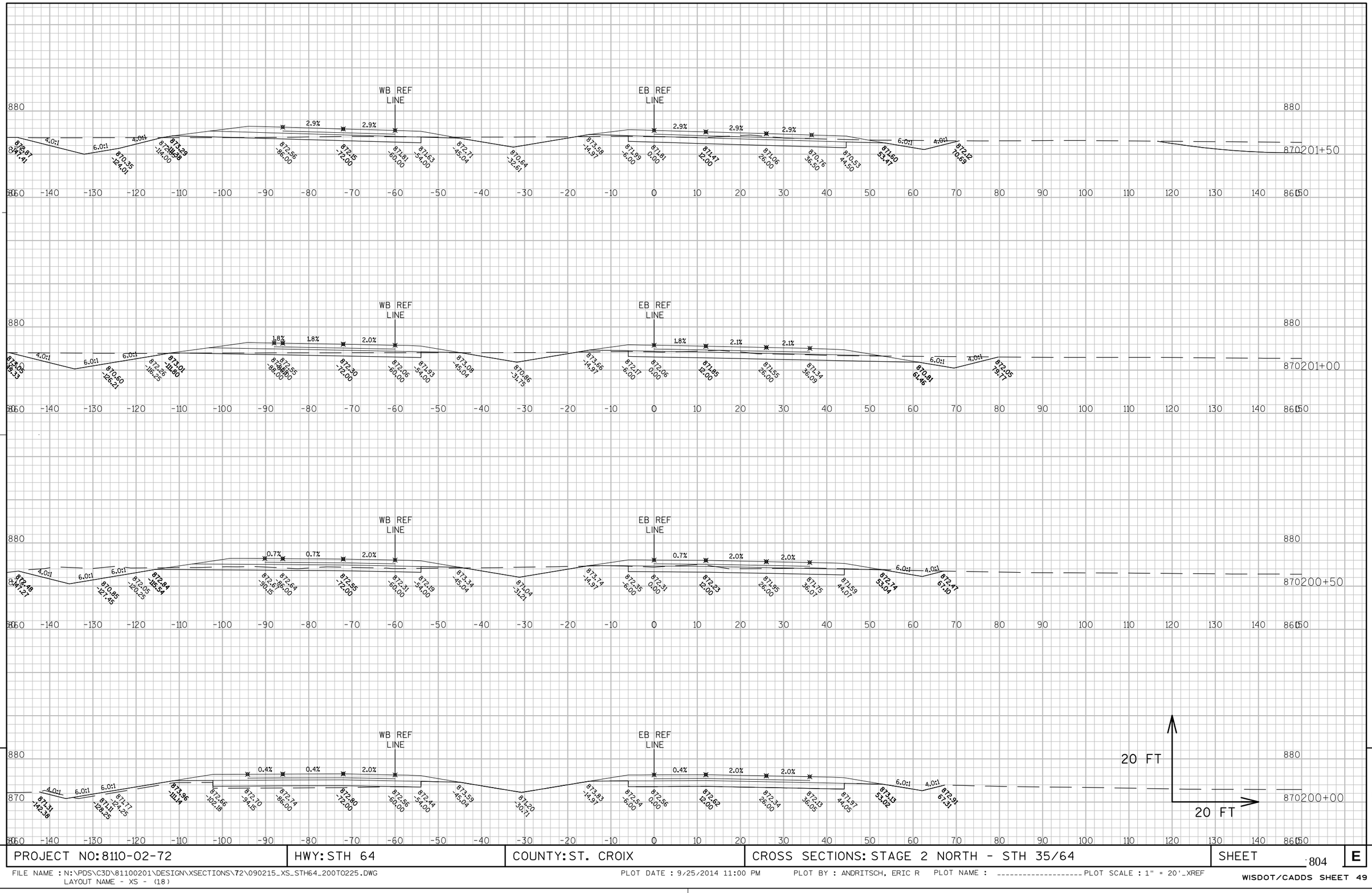


9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: GLEN POND	SHEET 803	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090281_XS_GLEN POND.DWG
LAYOUT NAME - XS - (35)

PLOT DATE : 9/26/2014 2:53 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF



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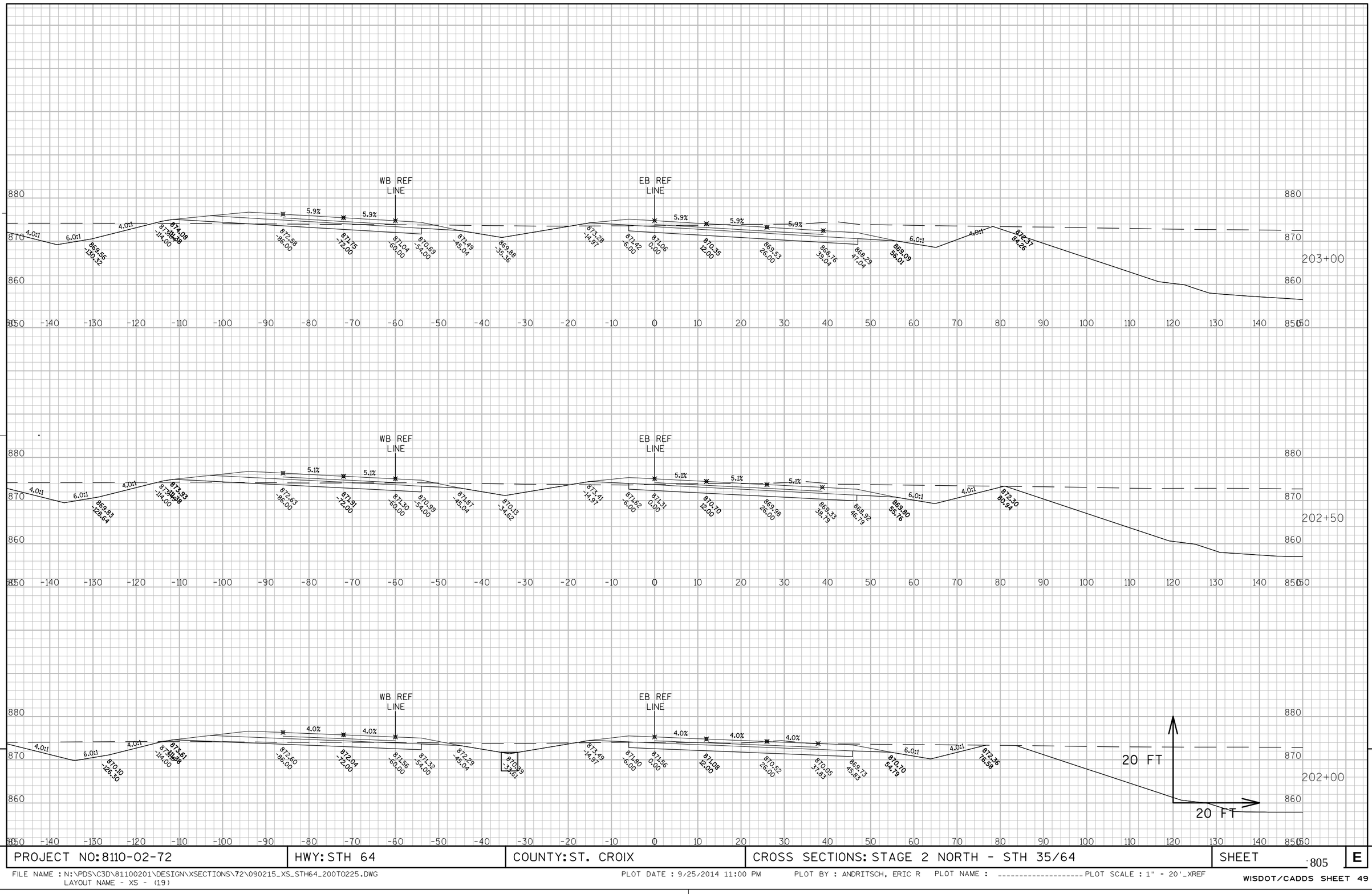
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 804	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (18)

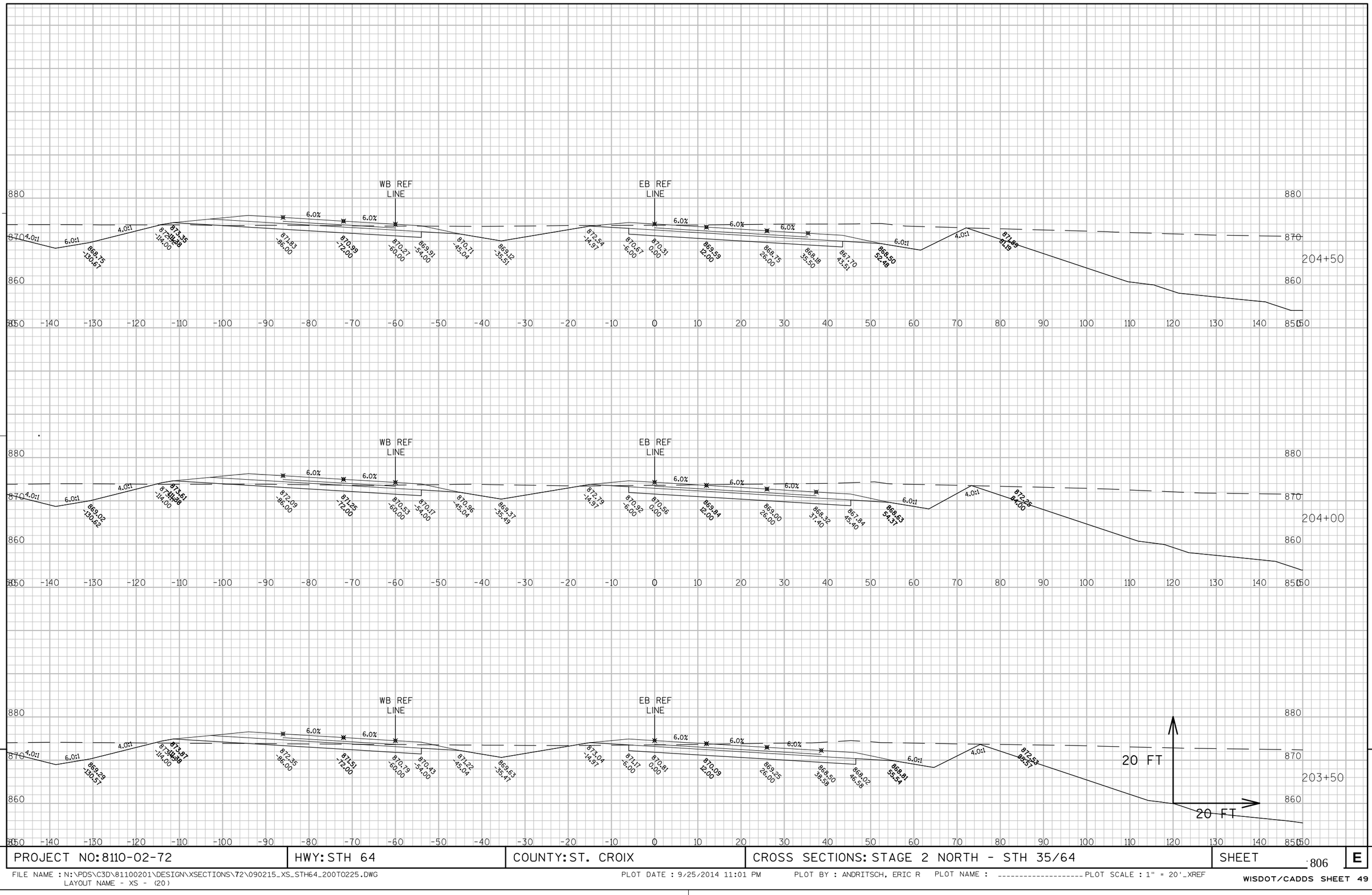
PLOT DATE : 9/25/2014 11:00 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 805 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (19)
PLOT DATE : 9/25/2014 11:00 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

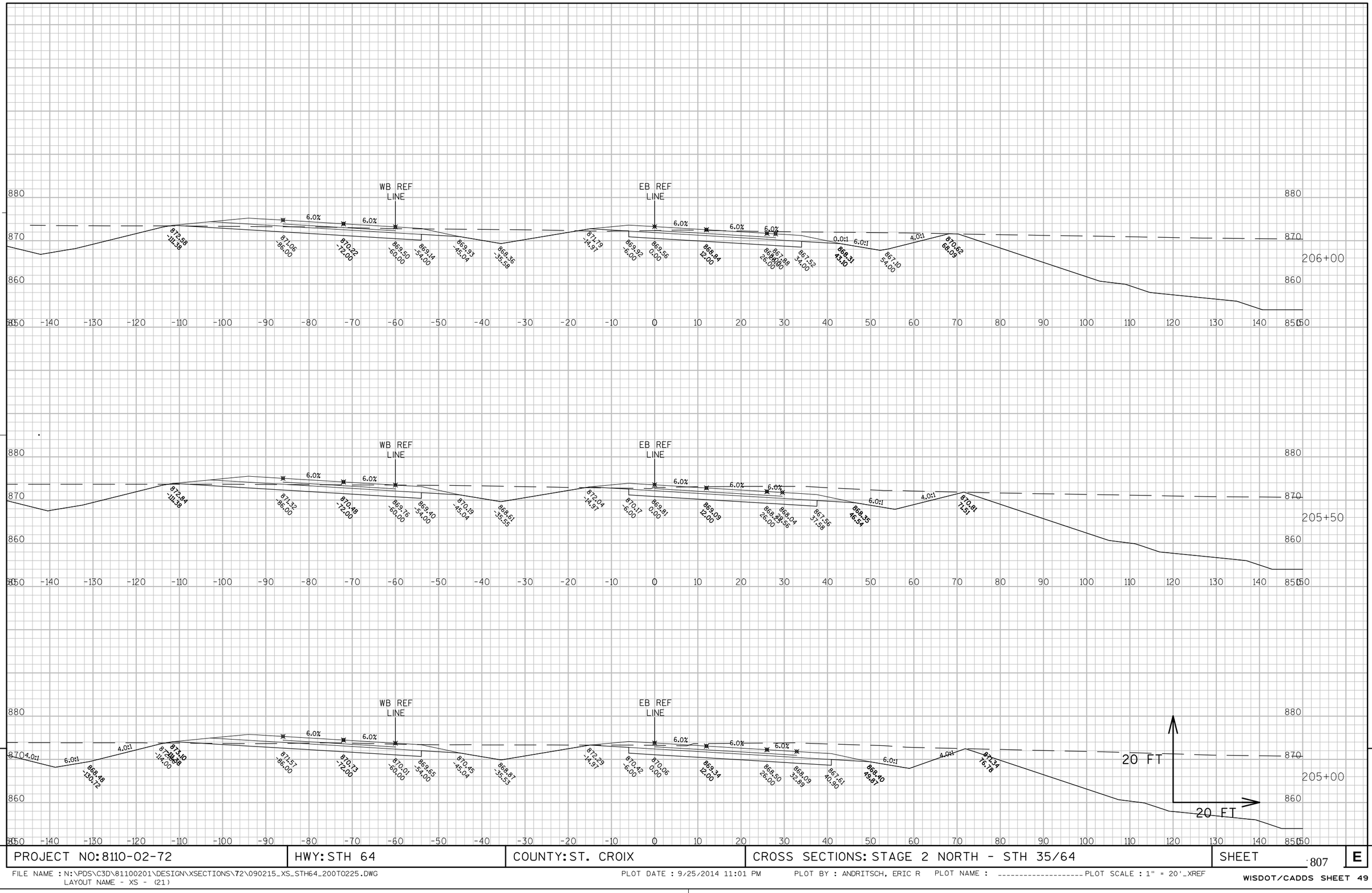
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 806	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (20)
PLOT DATE : 9/25/2014 11:01 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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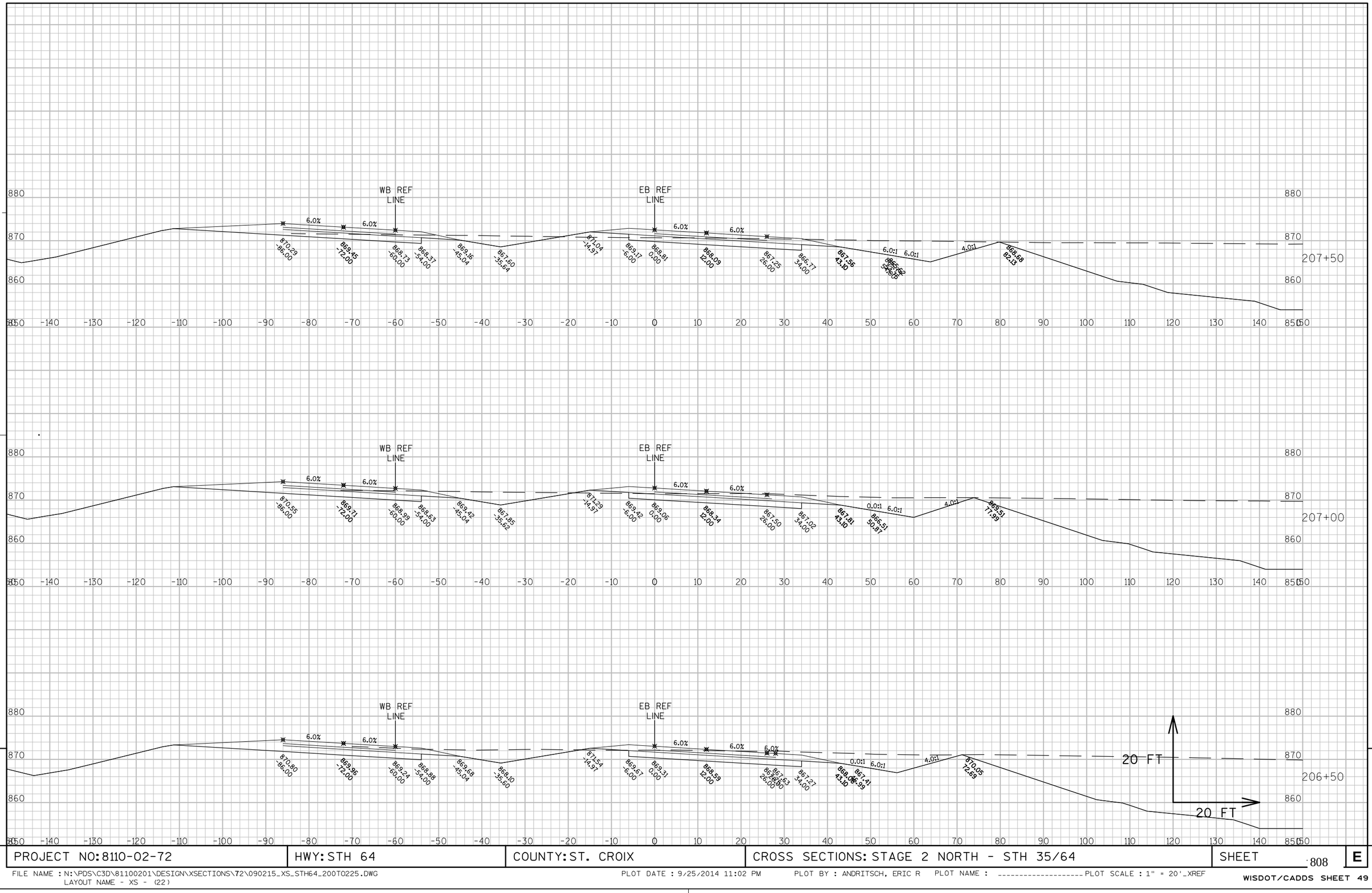
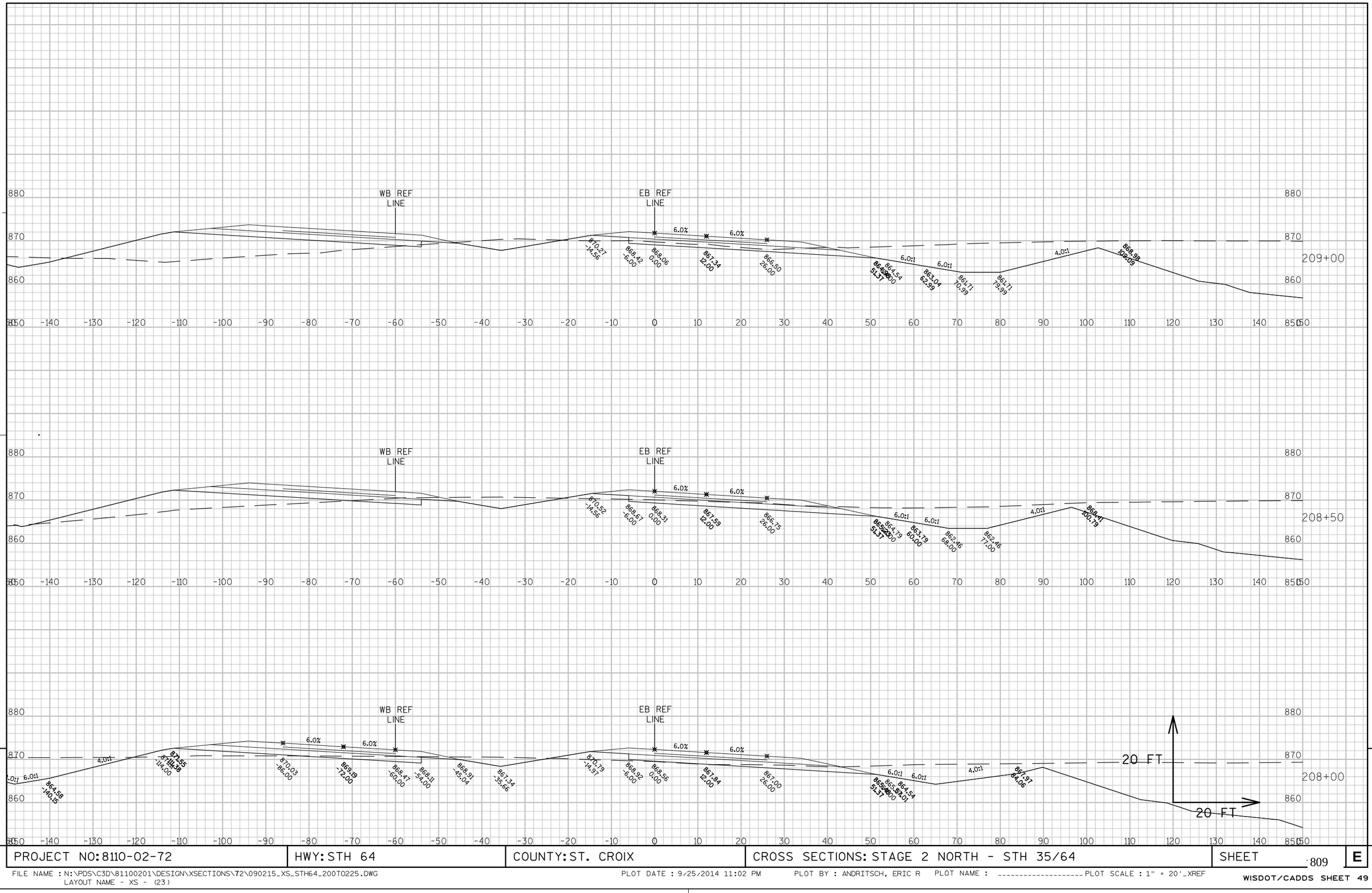
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 807	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (21)

PLOT DATE : 9/25/2014 11:01 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF


WB REF LINE
EB REF LINE
6.0%
6.0%
6.0%



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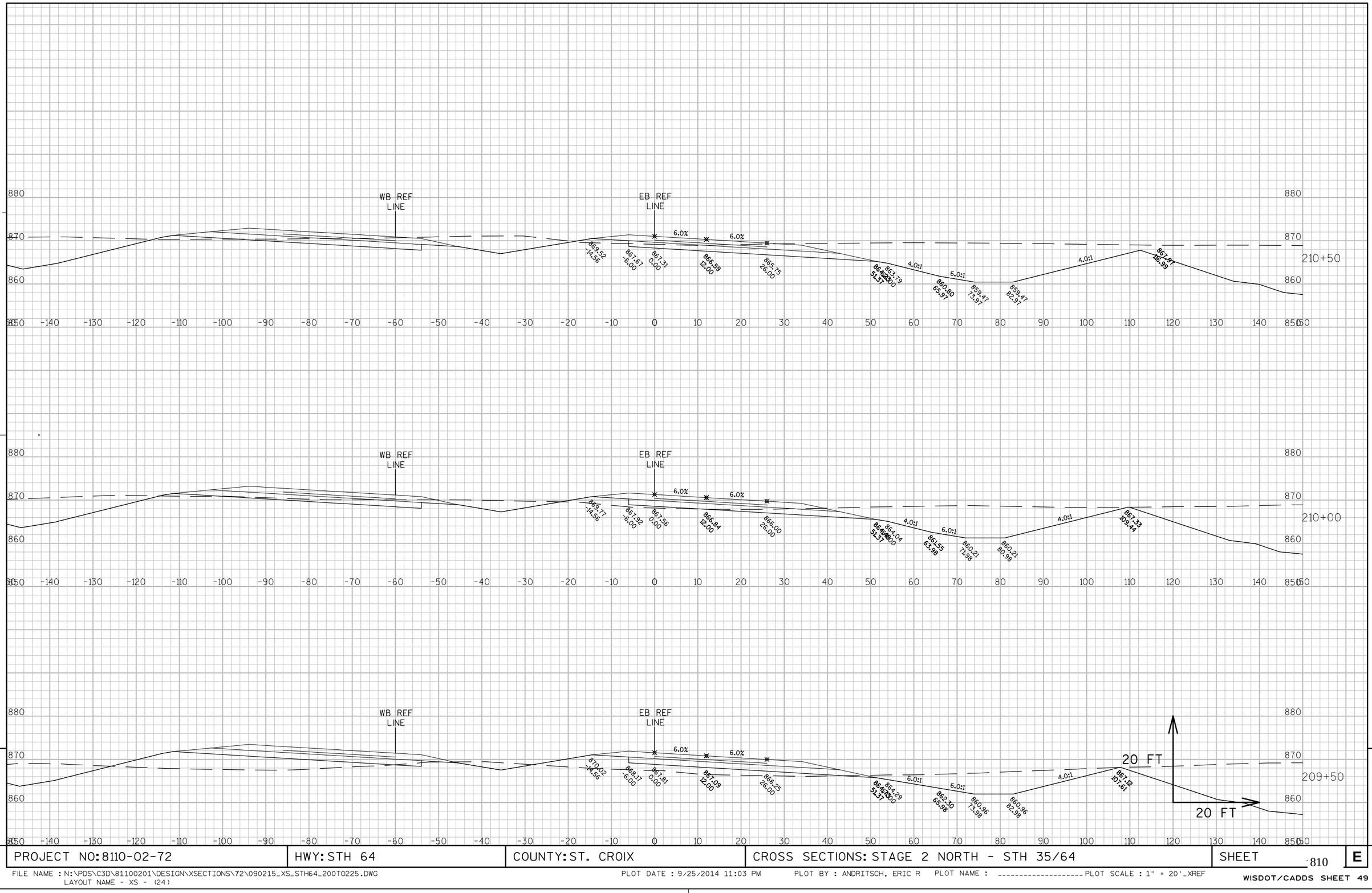
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 809	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (23)

PLOT DATE : 9/25/2014 11:02 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

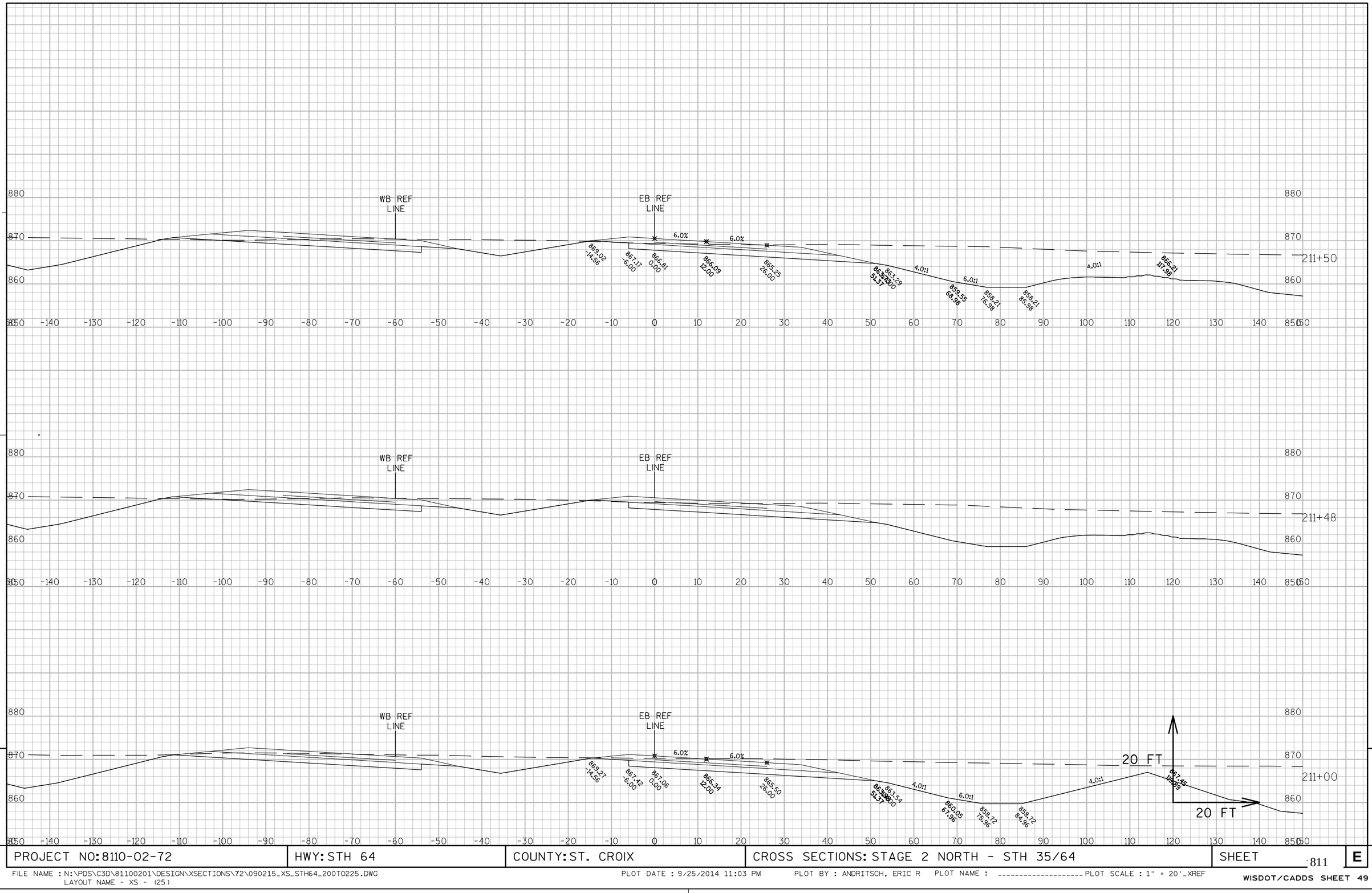


9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 810	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (24)
PLOT DATE : 9/25/2014 11:03 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

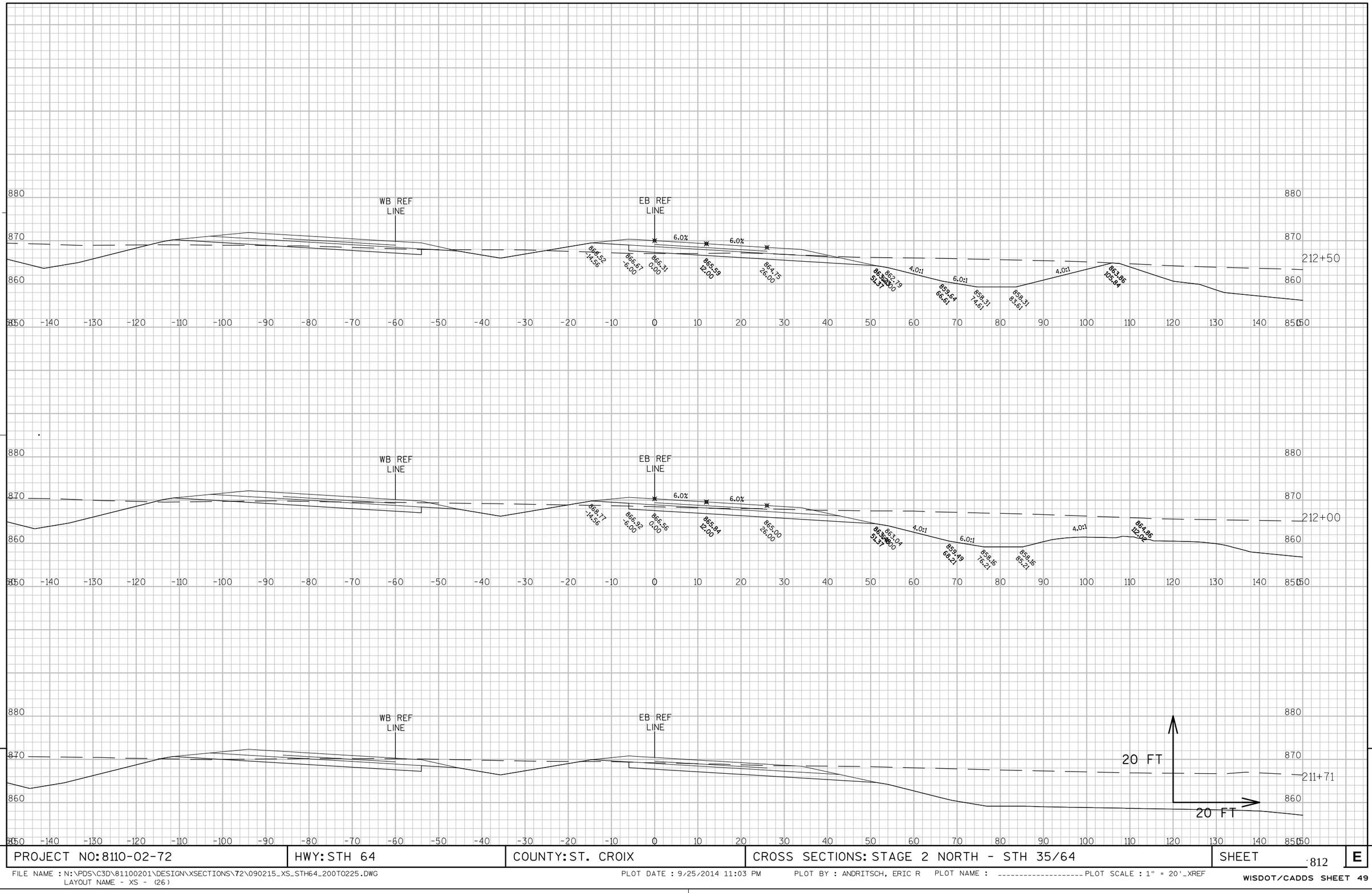


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 811 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (25)

PLOT DATE : 9/25/2014 11:03 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

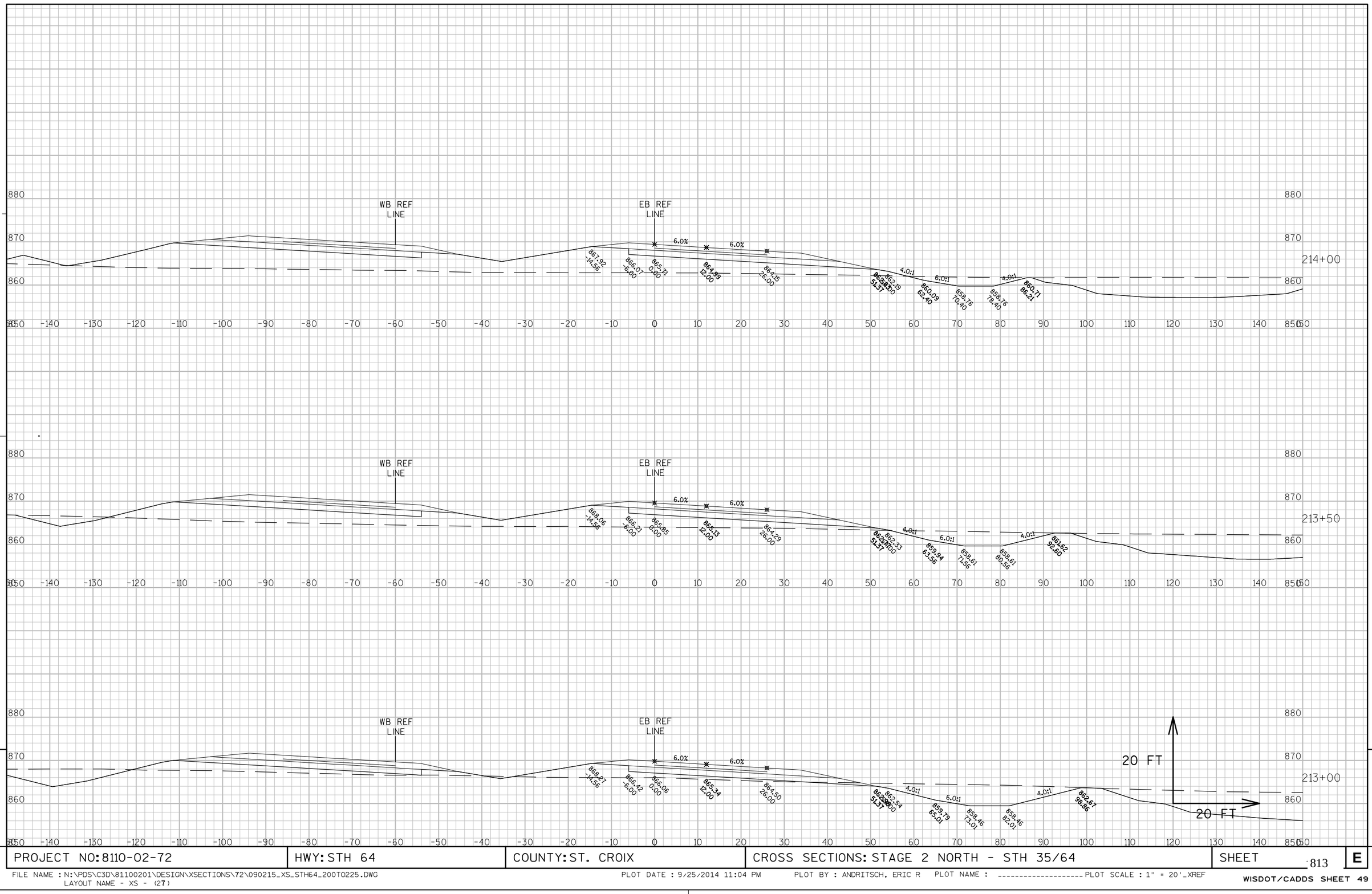


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 812	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (26)

PLOT DATE : 9/25/2014 11:03 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

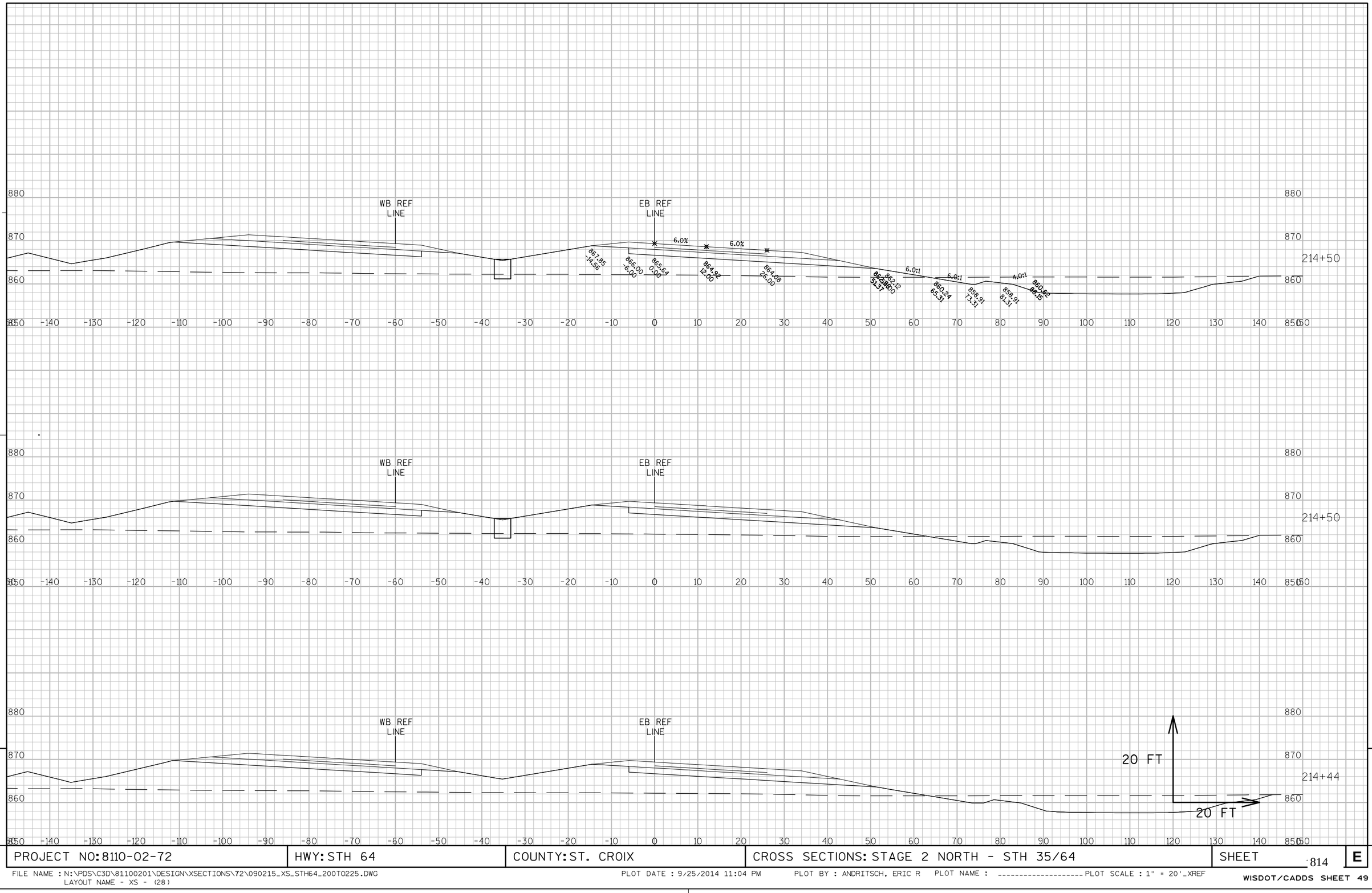


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 813 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (27)

PLOT DATE : 9/25/2014 11:04 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

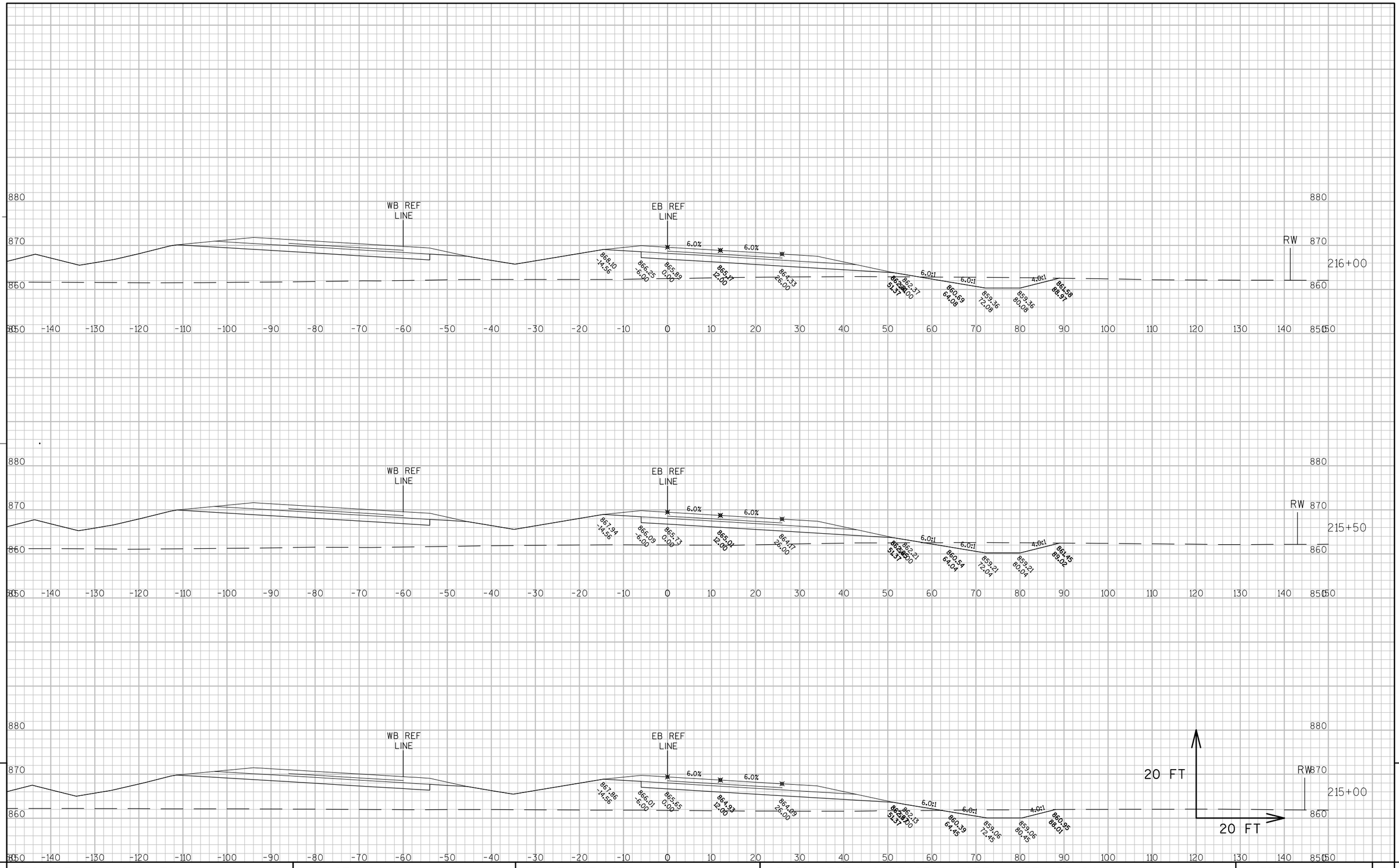


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 814	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (28)

PLOT DATE : 9/25/2014 11:04 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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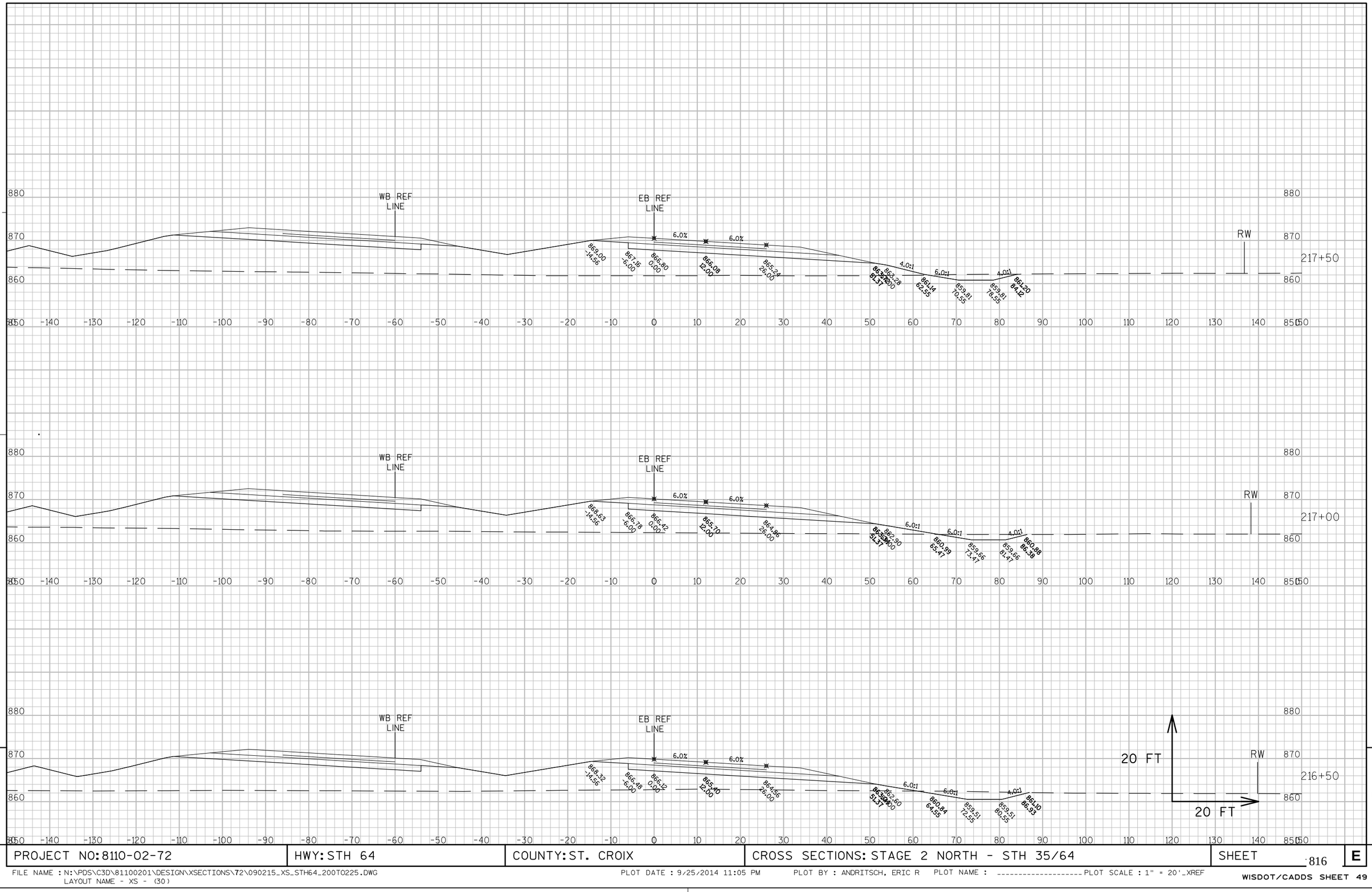
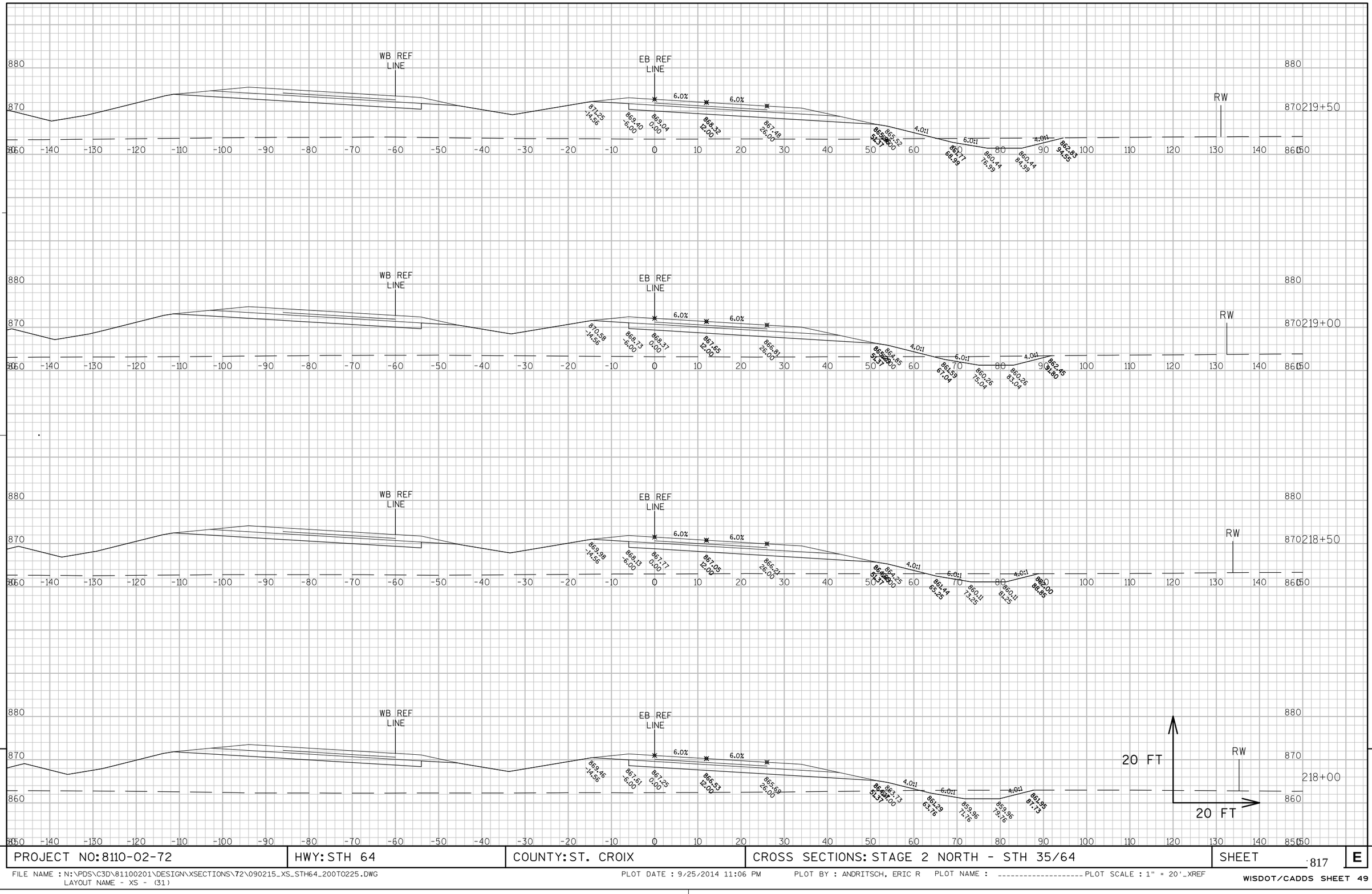
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 815	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (29)
PLOT DATE : 9/25/2014 11:05 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 816	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (30)
PLOT DATE : 9/25/2014 11:05 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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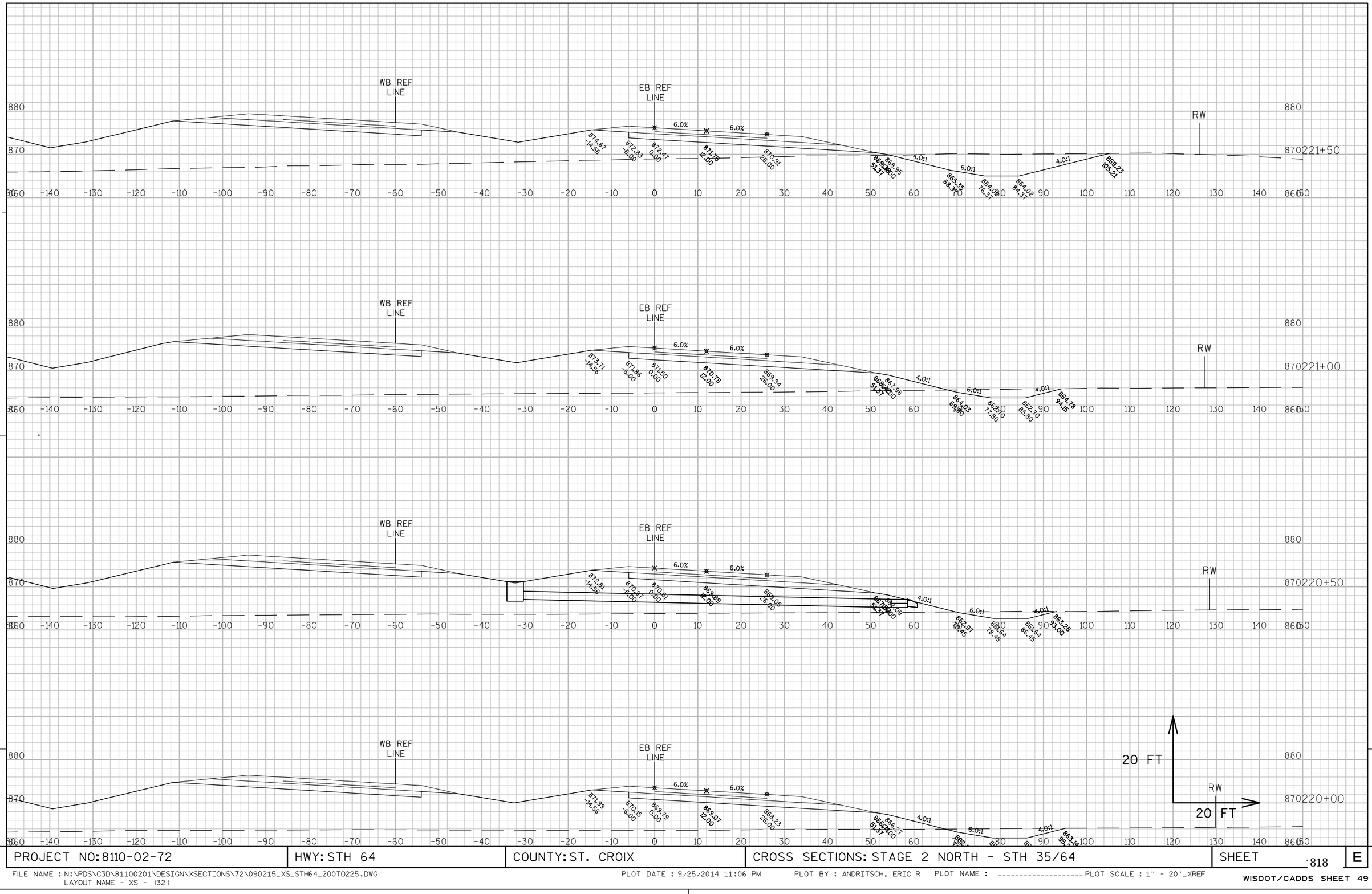
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 817	E

9

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (31)

PLOT DATE : 9/25/2014 11:06 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 818	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (32)

PLOT DATE : 9/25/2014 11:06 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

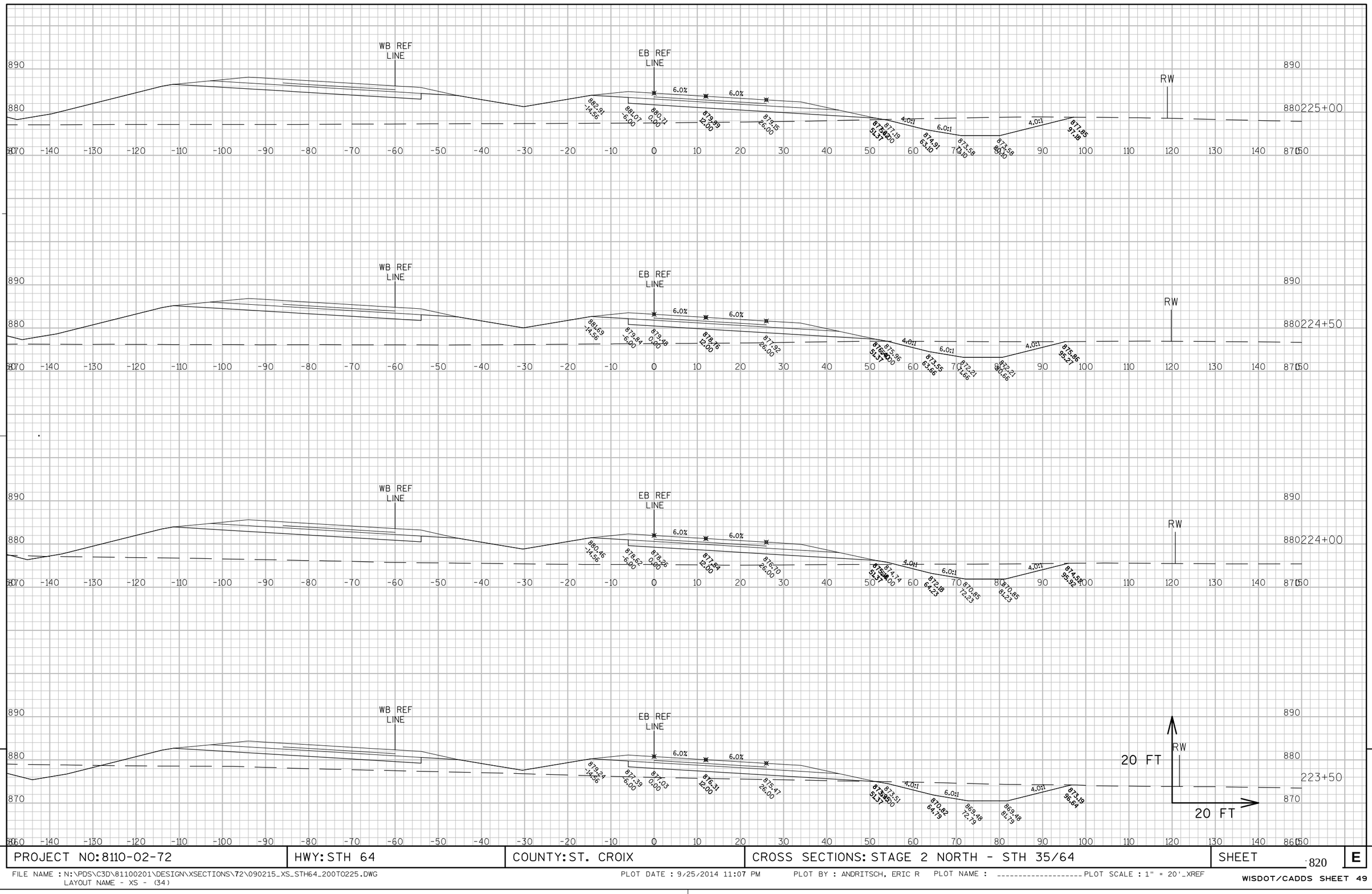
WISDOT/CADDS SHEET 49

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 819	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (33)

PLOT DATE : 9/25/2014 11:07 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

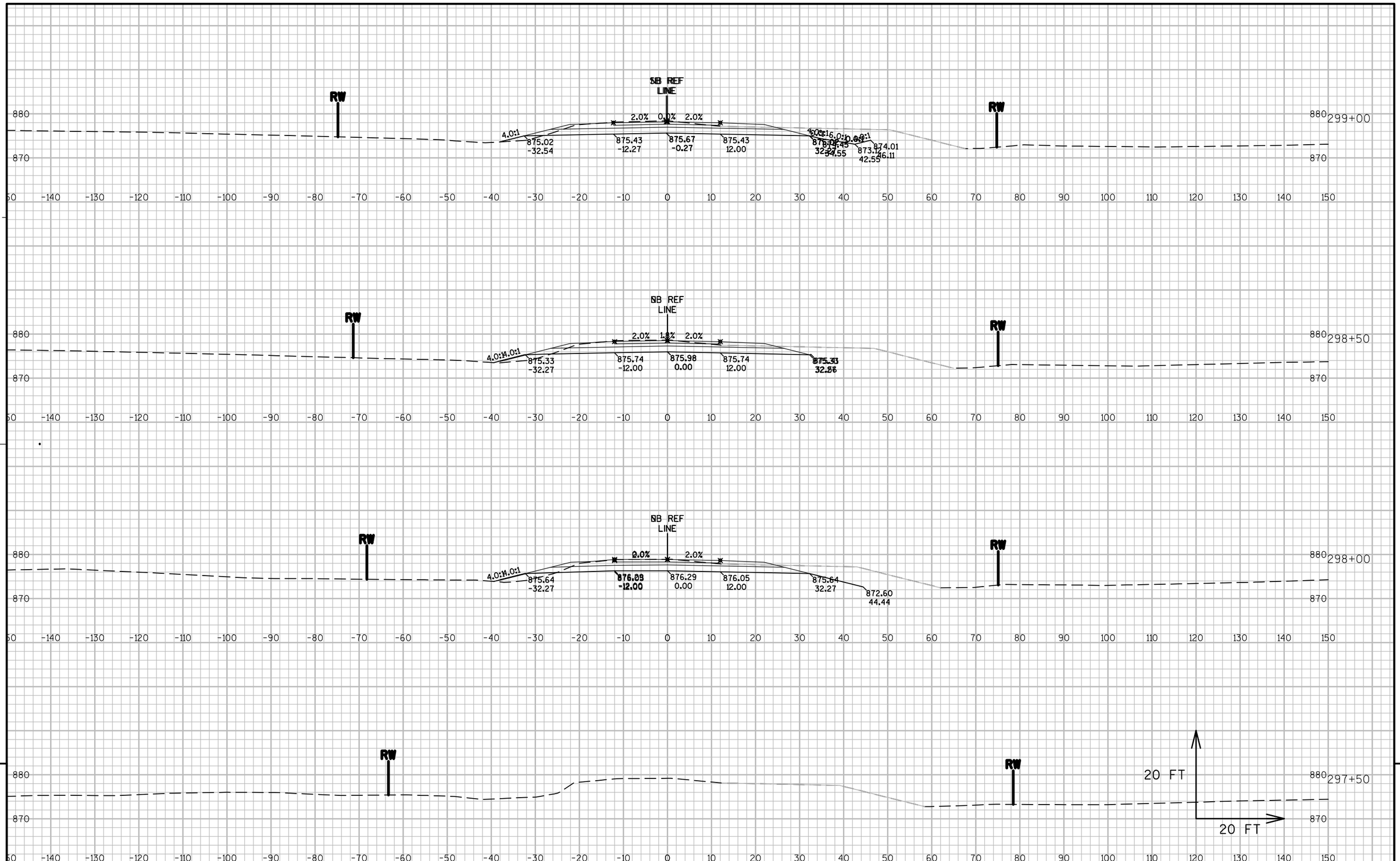


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64	SHEET 820 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090215_XS_STH64_200TO225.DWG
LAYOUT NAME - XS - (34)

PLOT DATE : 9/25/2014 11:07 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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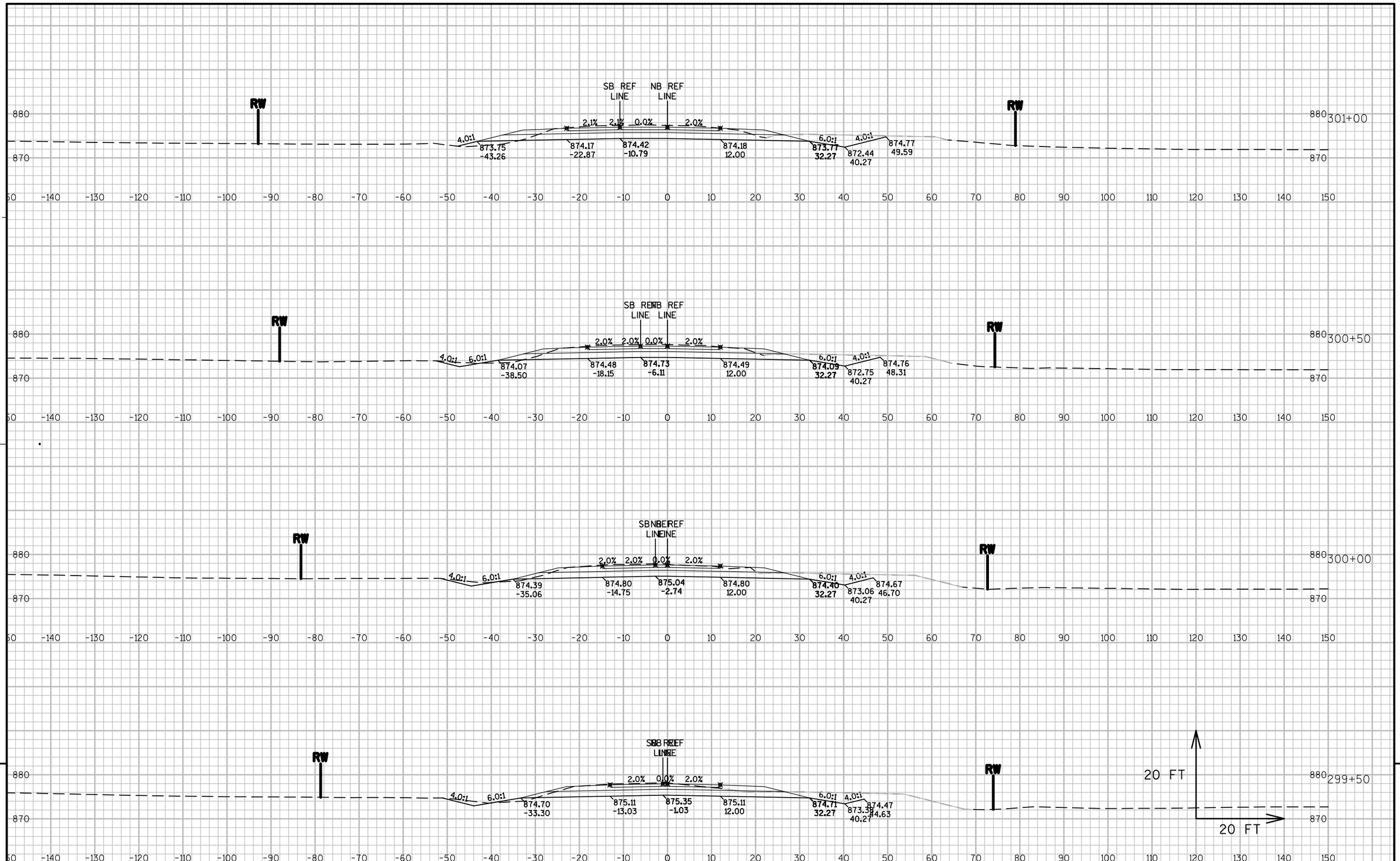
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 SOUTH - STH 35	SHEET 821	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S2 STH35_NB.DWG
LAYOUT NAME - XS - (60)

PLOT DATE : 9/26/2014 2:40 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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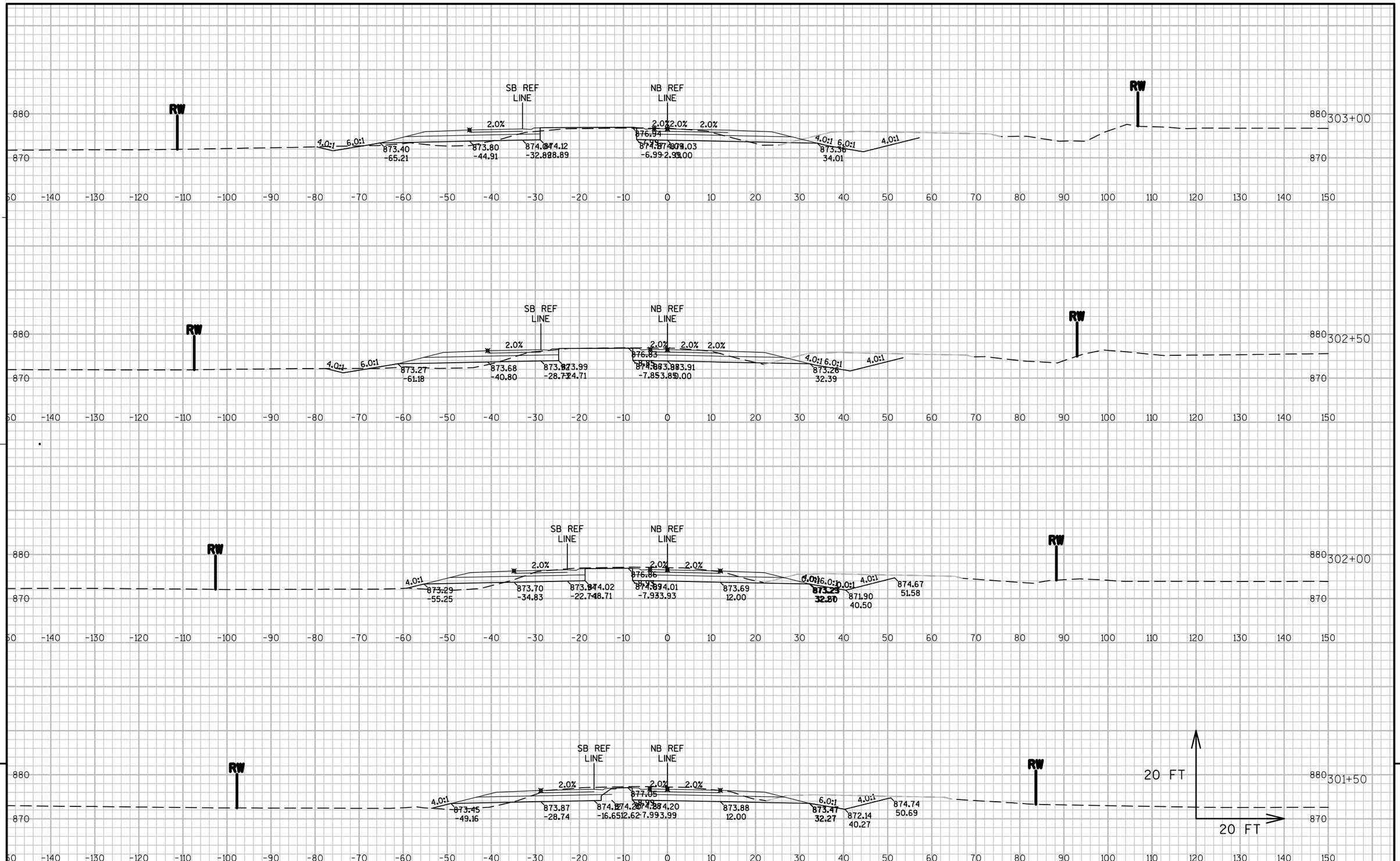
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 SOUTH - STH 35	SHEET 822 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S2 STH35_NB.DWG
LAYOUT NAME - XS - (61)
PLOT DATE : 9/26/2014 2:40 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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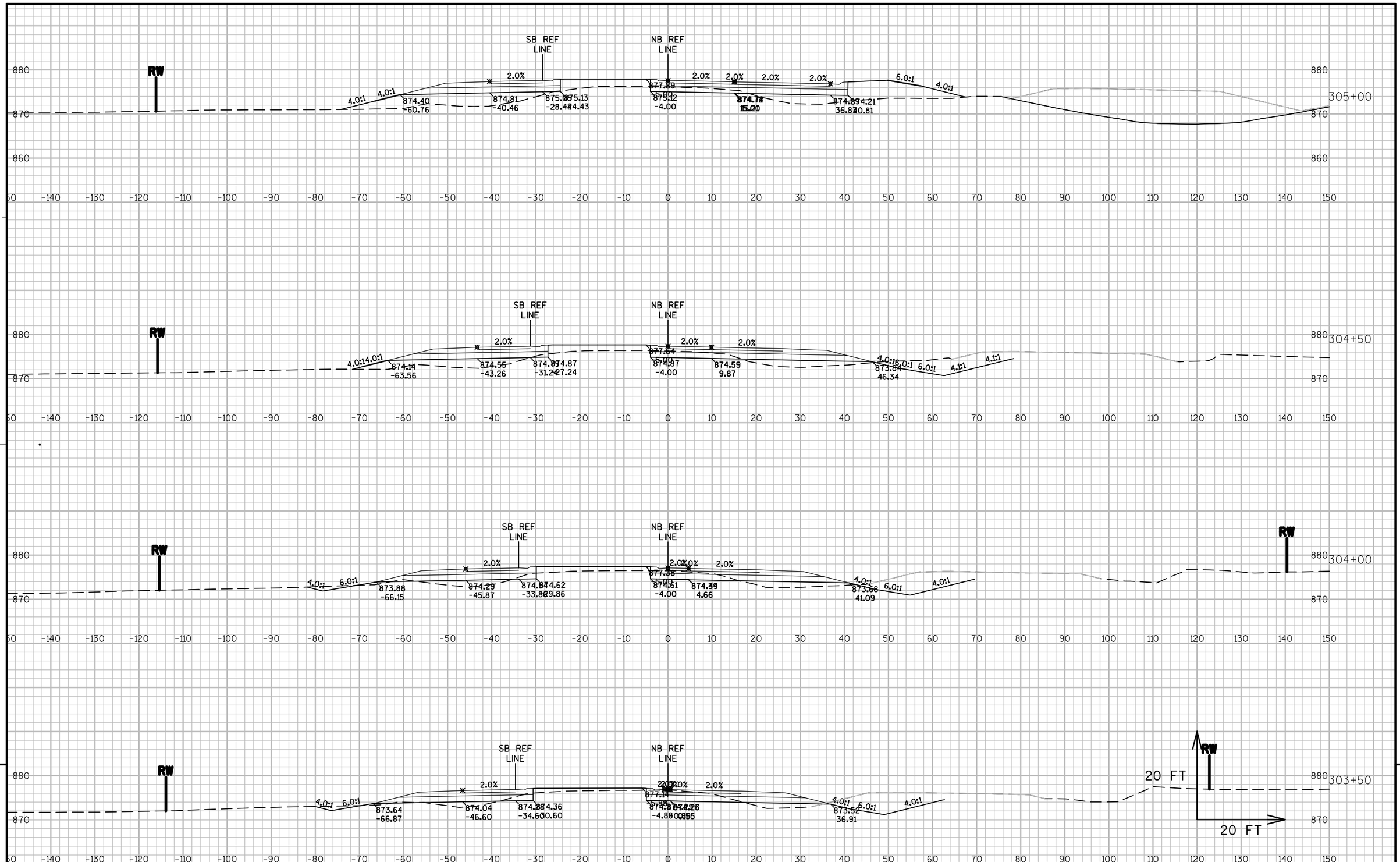
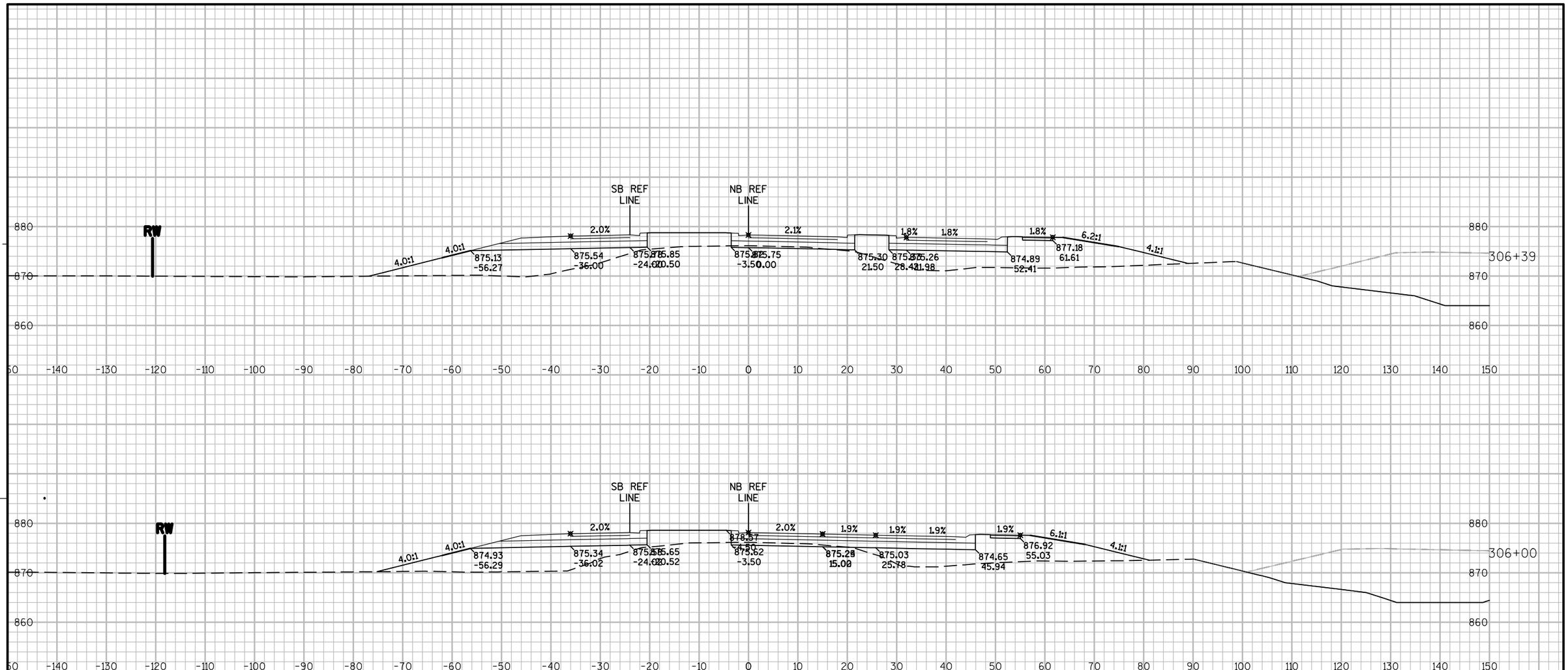
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 SOUTH - STH 35	SHEET 823	E

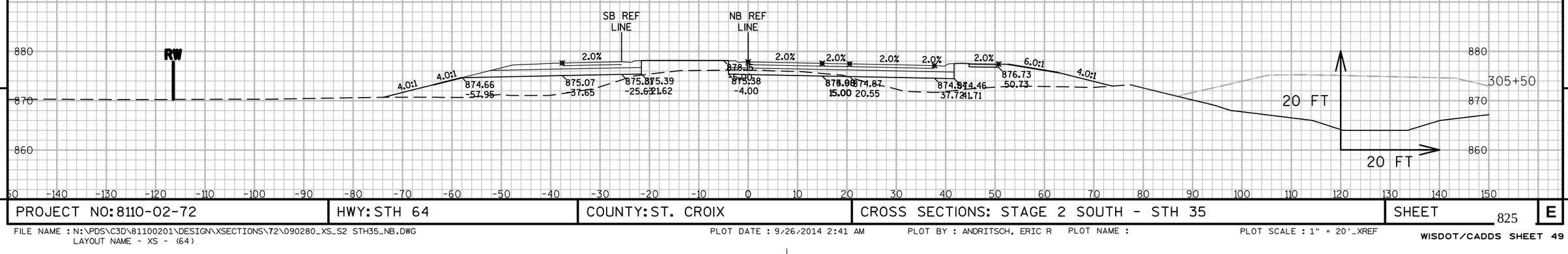
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S2 STH35_NB.DWG
LAYOUT NAME - XS - (62)
PLOT DATE : 9/26/2014 2:41 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 SOUTH - STH 35	SHEET 824	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S2 STH35_NB.DWG
LAYOUT NAME - XS - (63)
PLOT DATE : 9/26/2014 2:41 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49





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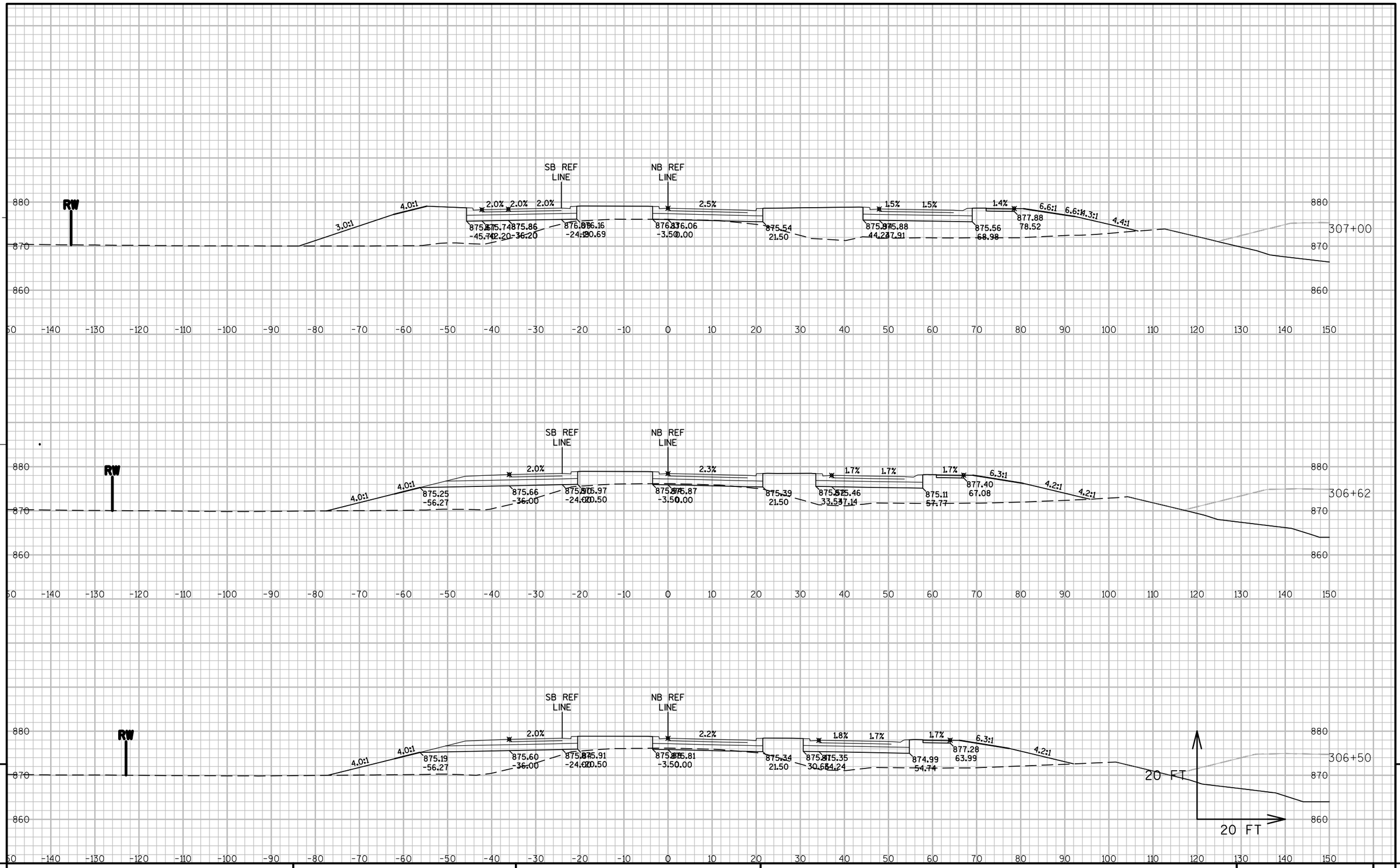
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 SOUTH - STH 35	SHEET 825	E

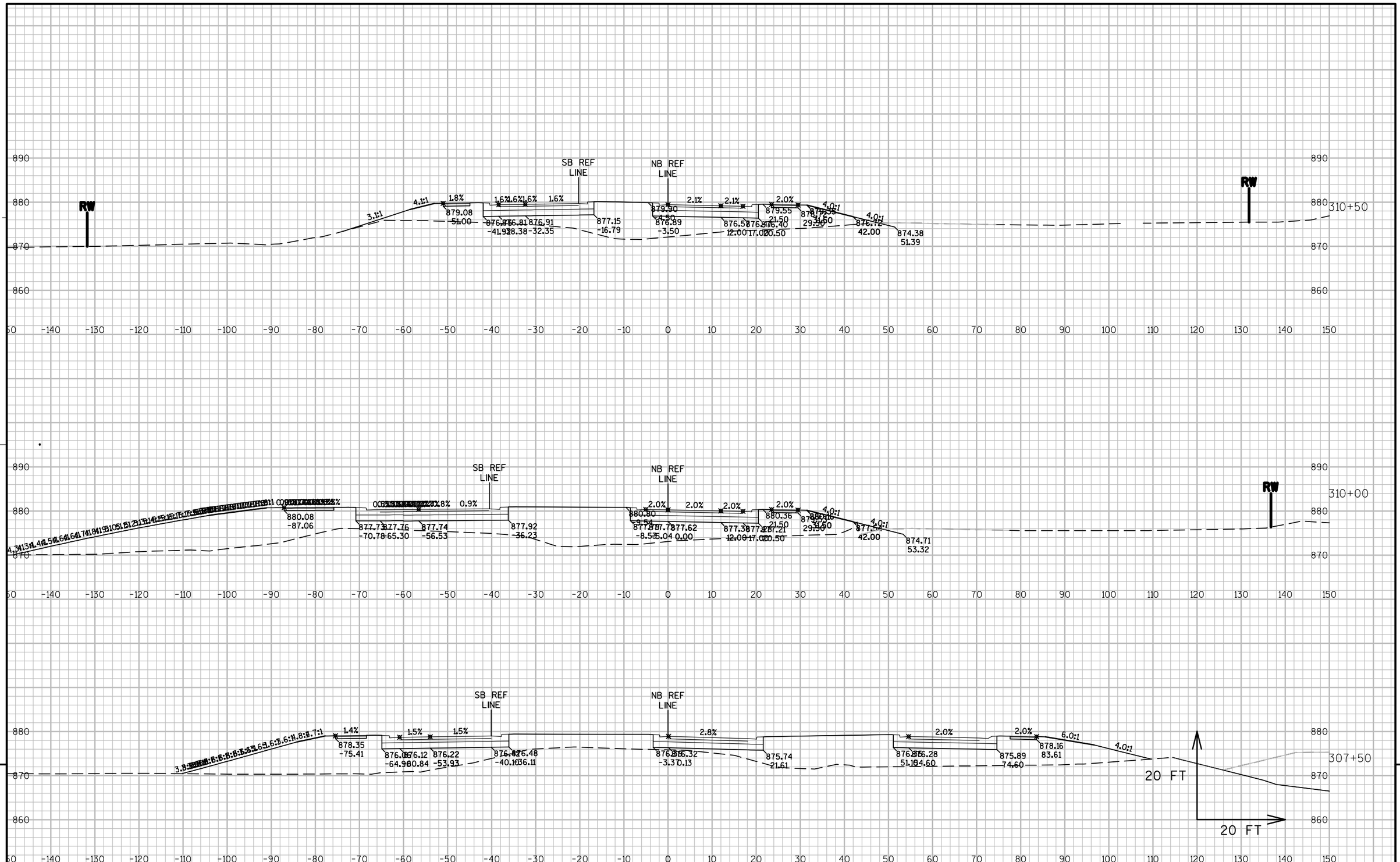
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S2 STH35_NB.DWG
LAYOUT NAME - XS - (64)

PLOT DATE : 9/26/2014 2:41 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 SOUTH - STH 35	SHEET 826	E

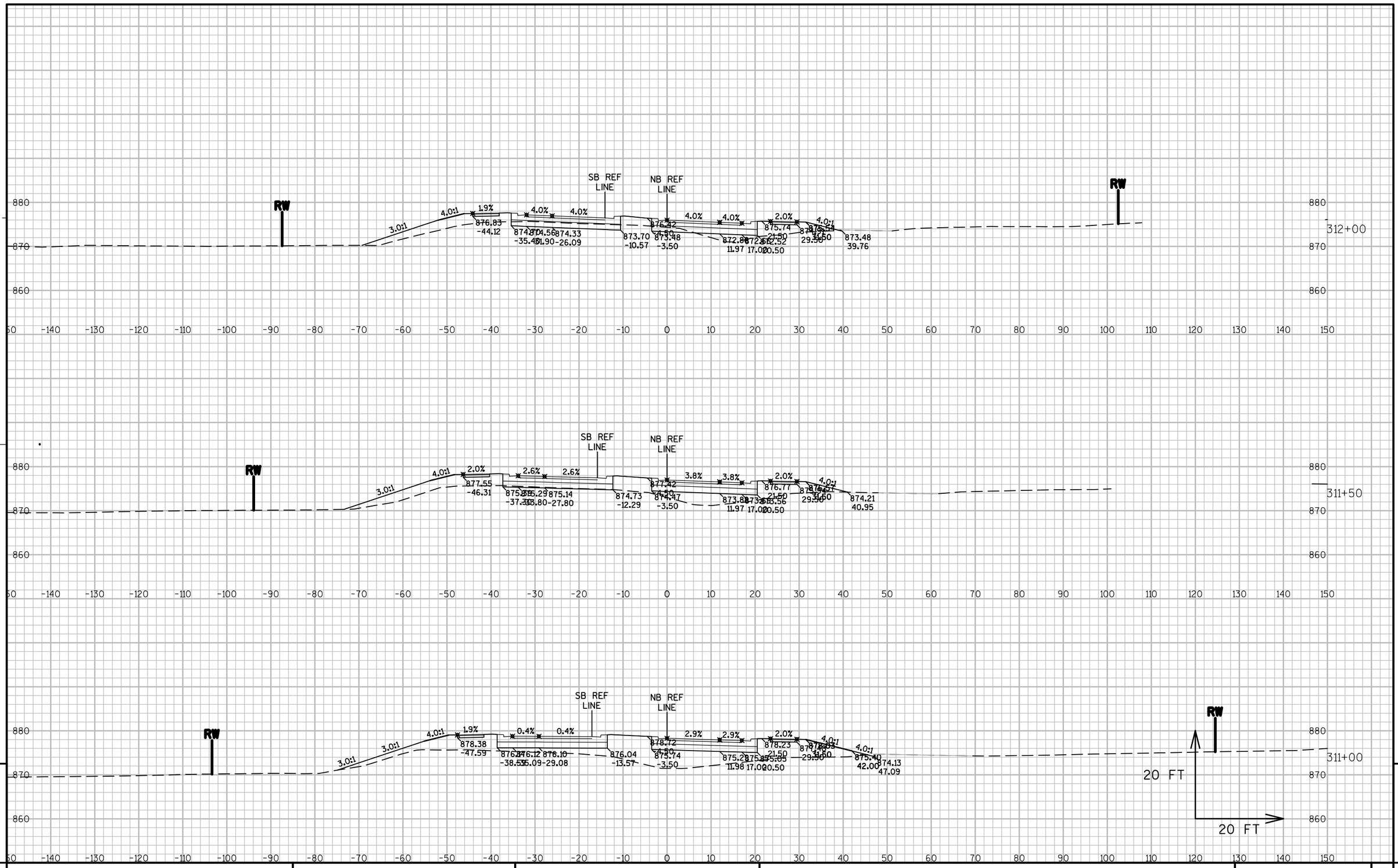


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 SOUTH - STH 35	SHEET 827 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S2 STH35_NB.DWG
LAYOUT NAME - XS - (66)

PLOT DATE : 9/26/2014 2:42 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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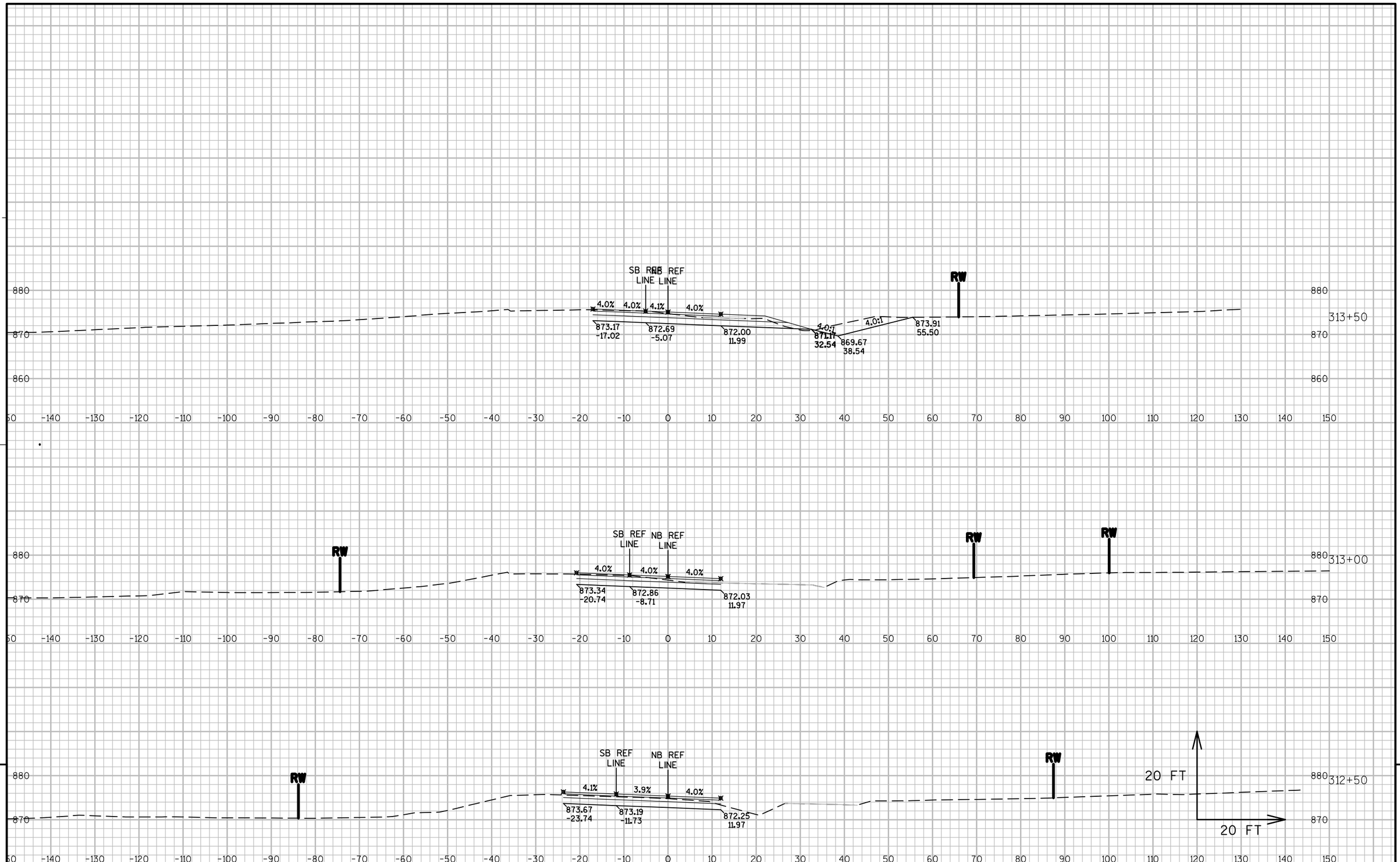
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 SOUTH - STH 35	SHEET 828	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S2 STH35_NB.DWG
LAYOUT NAME - XS - (67)
PLOT DATE : 9/26/2014 2:42 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME :
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

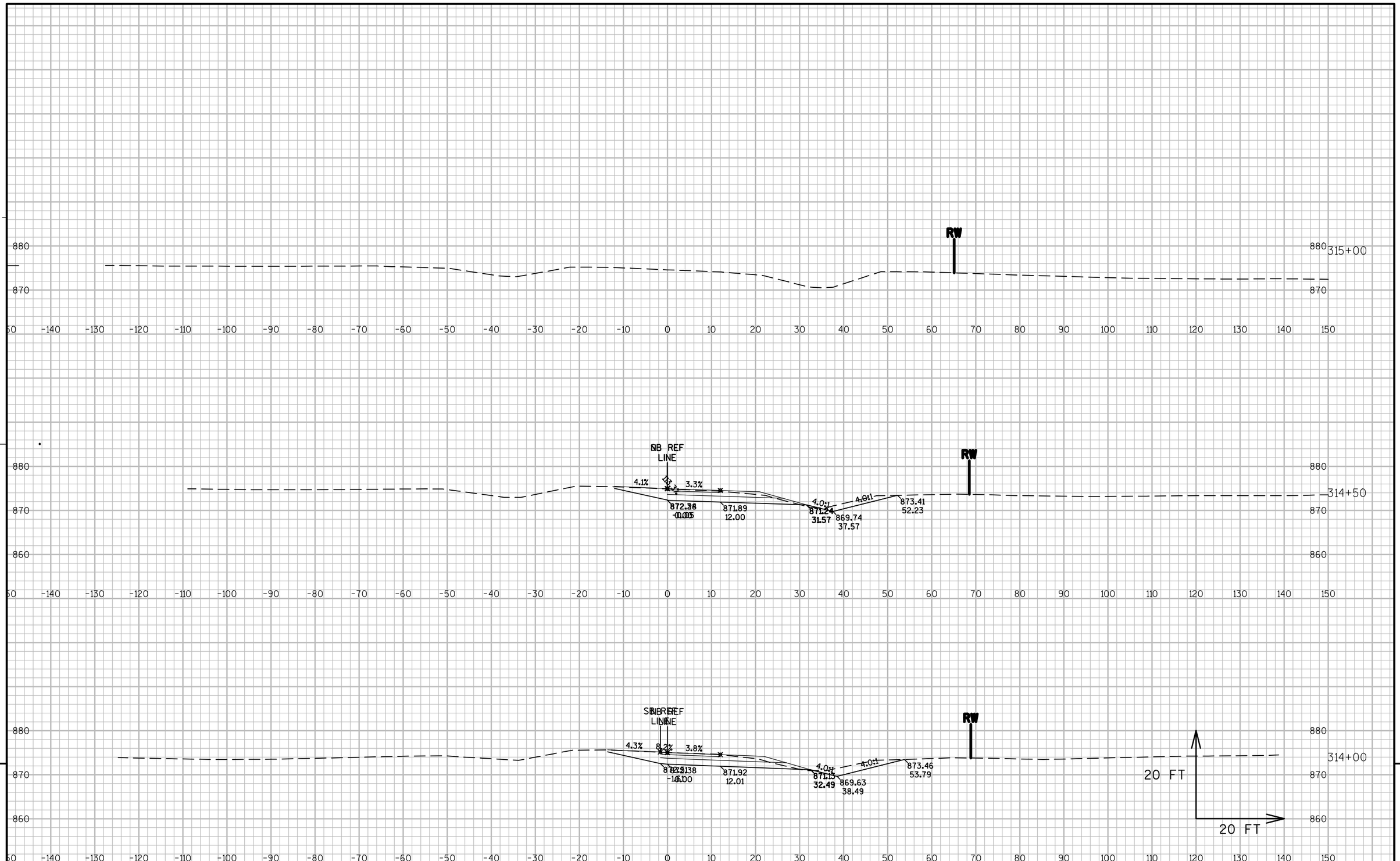


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 SOUTH - STH 35	SHEET 829 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S2 STH35_NB.DWG
LAYOUT NAME - XS - (68)

PLOT DATE : 9/26/2014 2:42 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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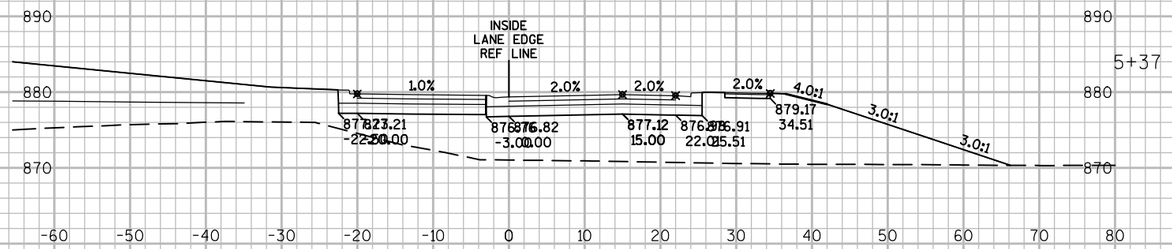
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 SOUTH - STH 35	SHEET 830	E

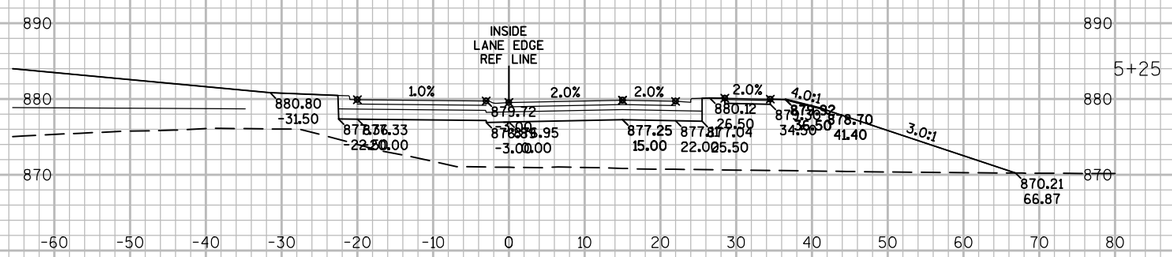
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_S2 STH35_NB.DWG
LAYOUT NAME - XS - (69)

PLOT DATE : 9/26/2014 2:42 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

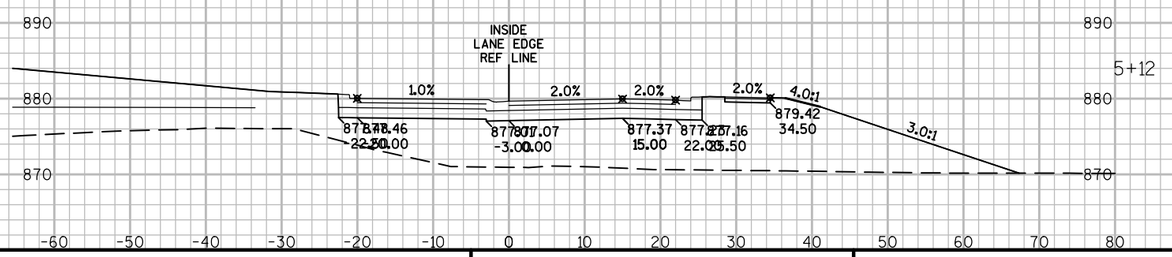
WISDOT/CADDS SHEET 49



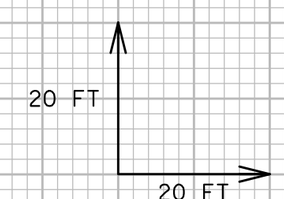
5+37



5+25



5+12



9

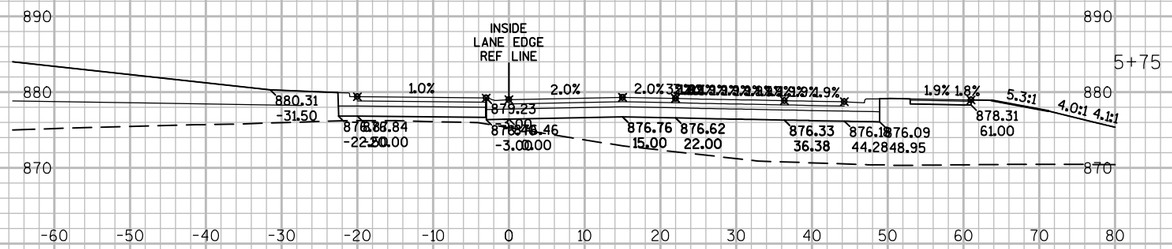
9

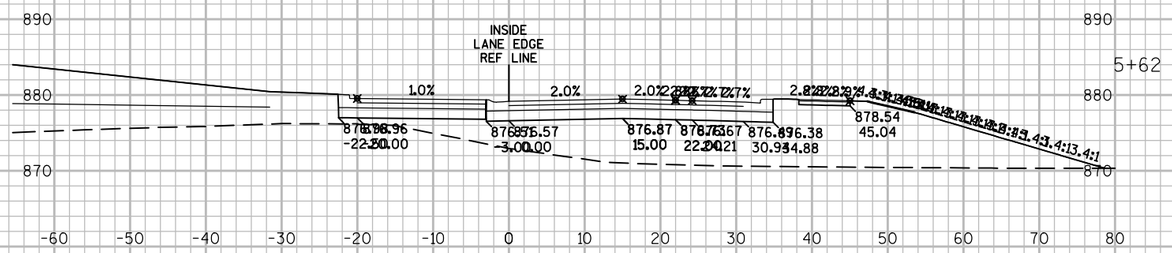
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 / MAIN ST RAB	SHEET 831	E

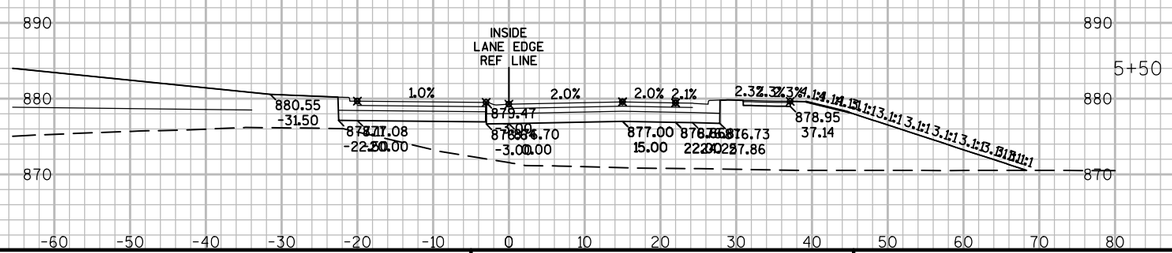
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_MAIN ST RAB.DWG
LAYOUT NAME - XS - (78)

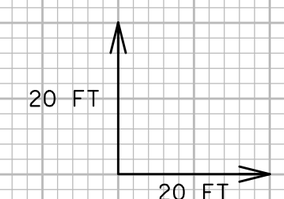
PLOT DATE : 9/26/2014 2:27 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49









9

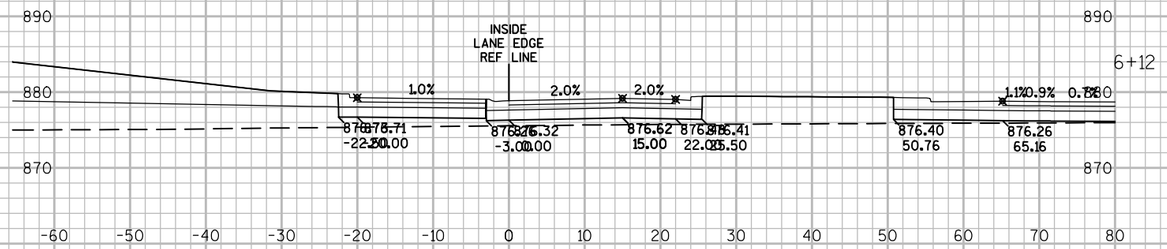
9

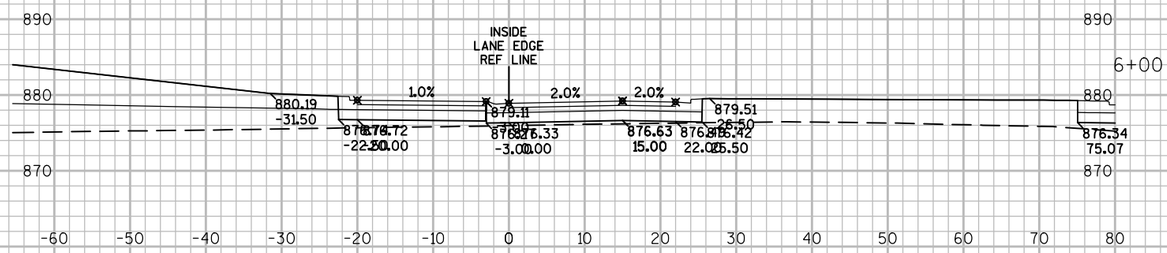
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 / MAIN ST RAB	SHEET 832	E

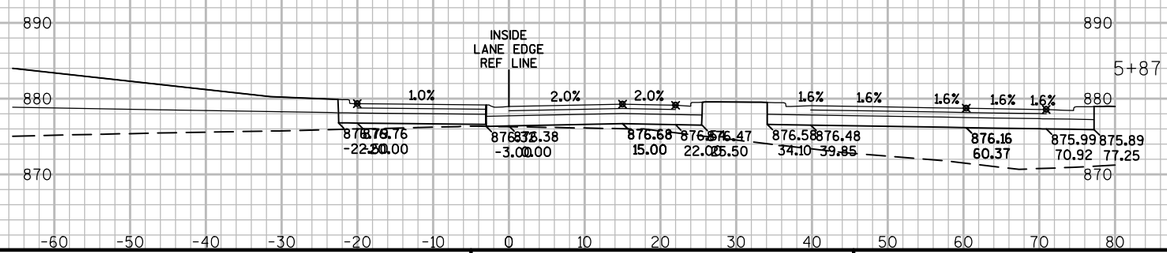
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_MAIN ST RAB.DWG
LAYOUT NAME - XS - (79)

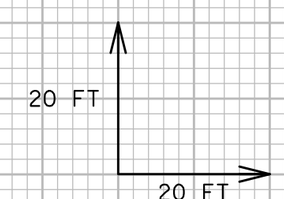
PLOT DATE : 9/26/2014 2:27 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49









9

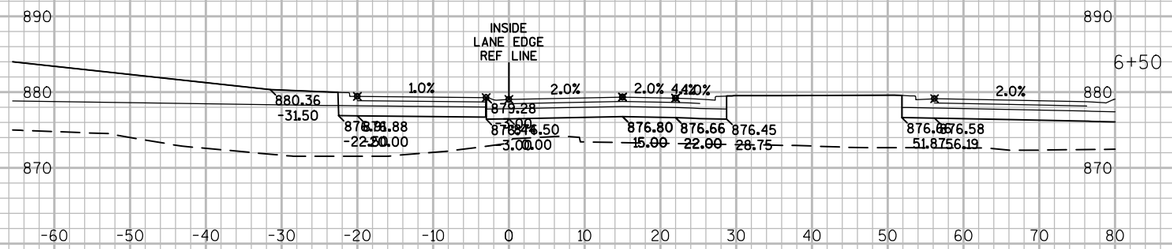
9

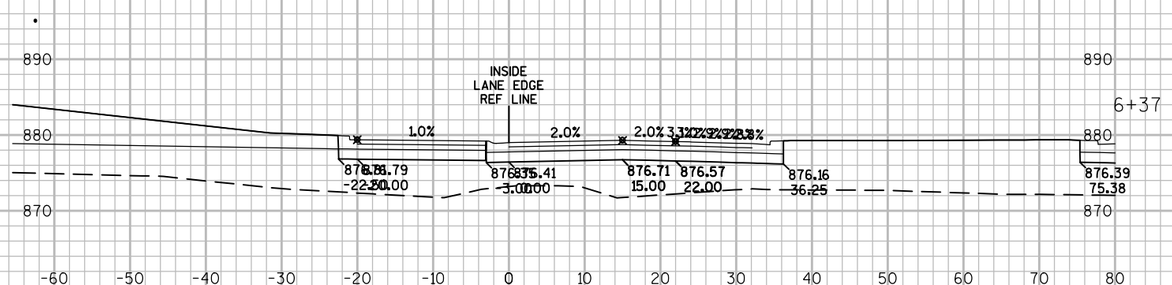
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 / MAIN ST RAB	SHEET 833	E

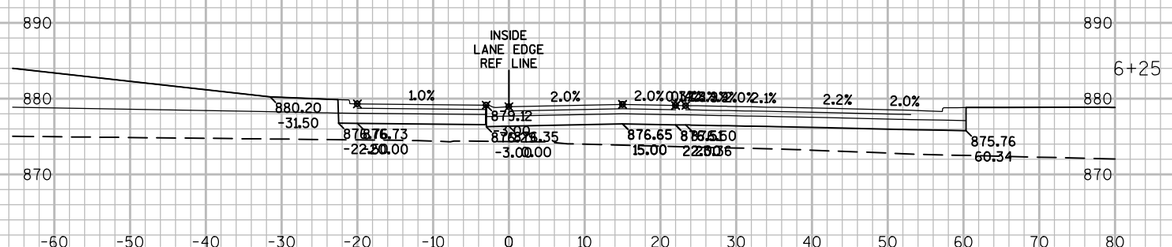
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_MAIN ST RAB.DWG
LAYOUT NAME - XS - (80)

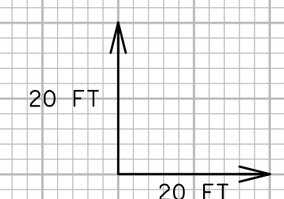
PLOT DATE : 9/26/2014 2:27 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49









9

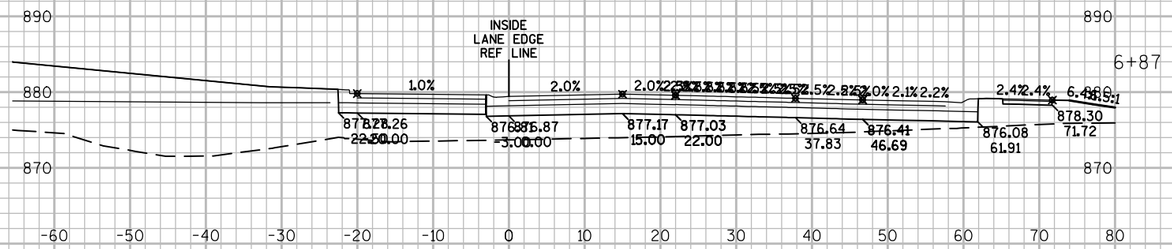
9

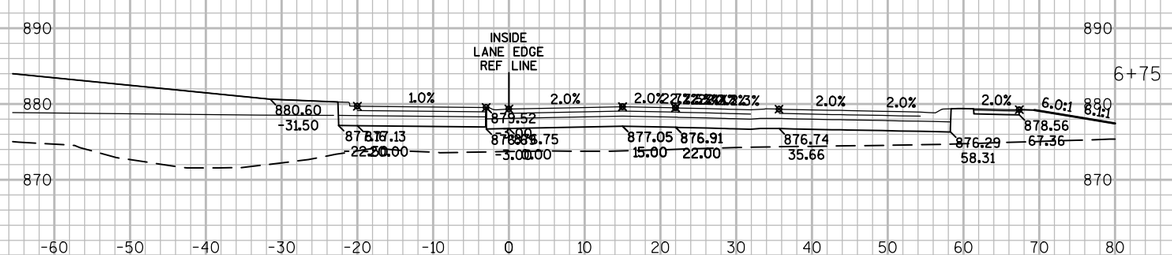
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 / MAIN ST RAB	SHEET 834	E

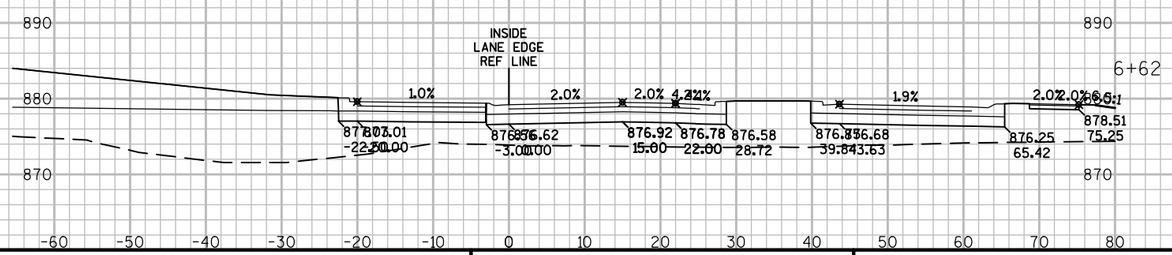
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_MAIN ST RAB.DWG
LAYOUT NAME - XS - (81)

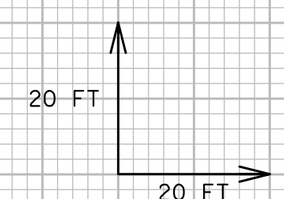
PLOT DATE : 9/26/2014 2:27 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49









9

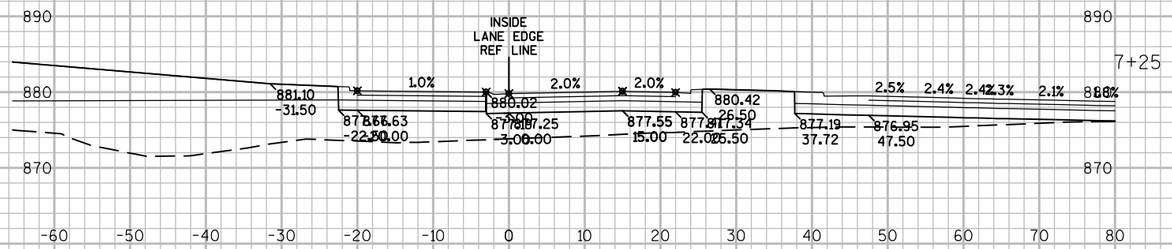
9

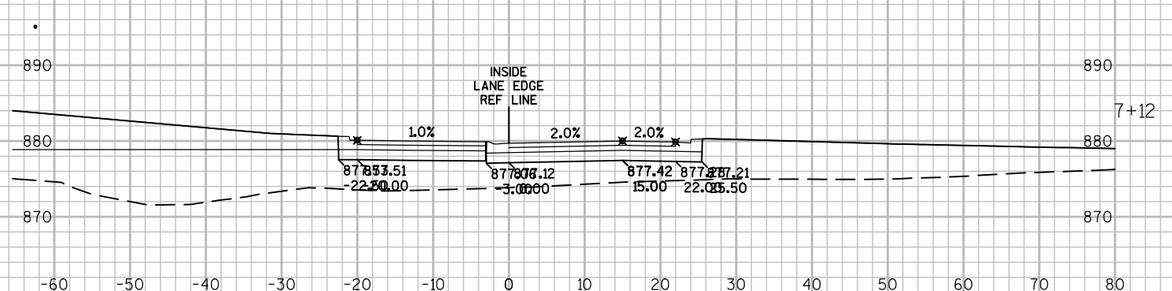
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 / MAIN ST RAB	SHEET 835	E

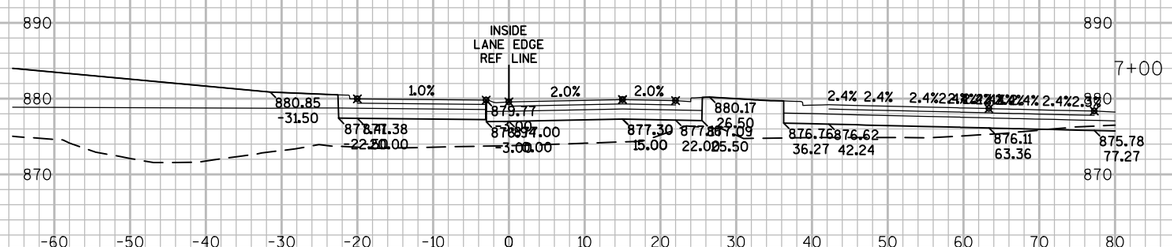
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_MAIN ST RAB.DWG
LAYOUT NAME - XS - (82)

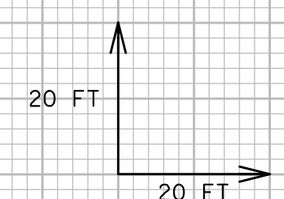
PLOT DATE : 9/26/2014 2:27 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49







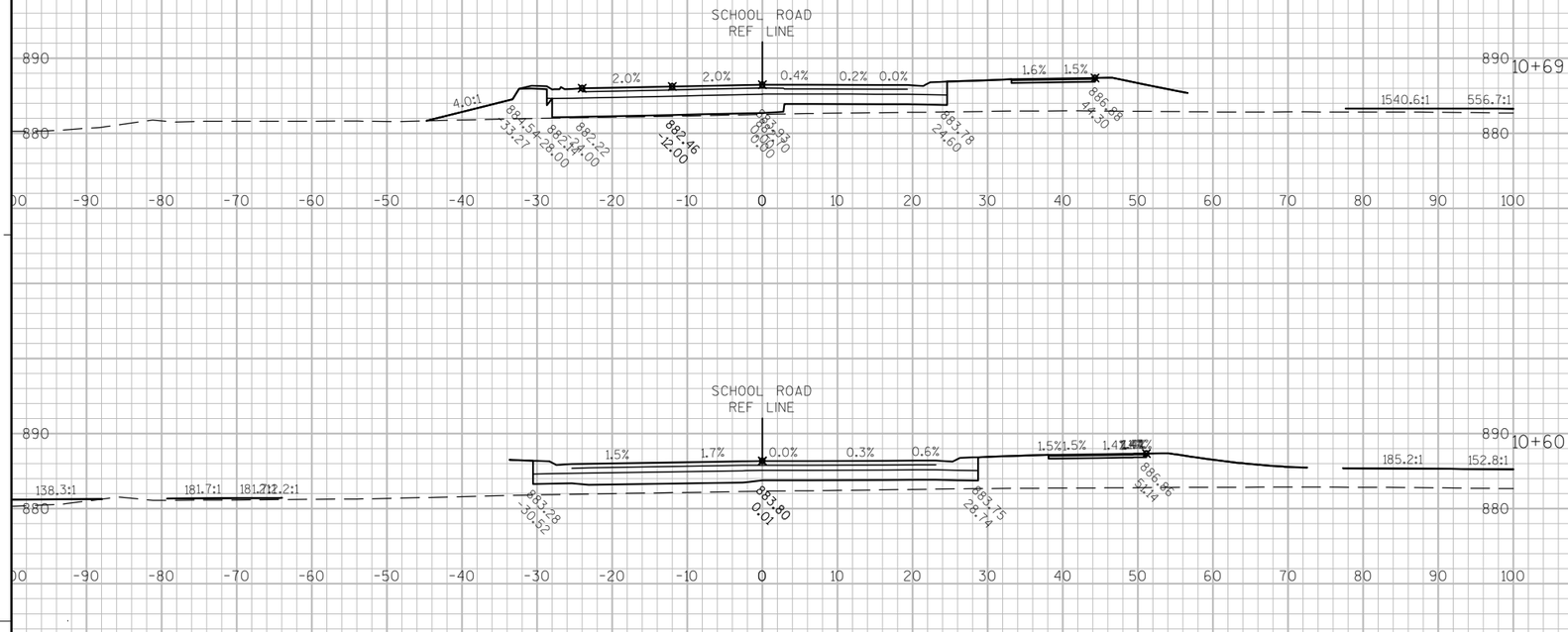


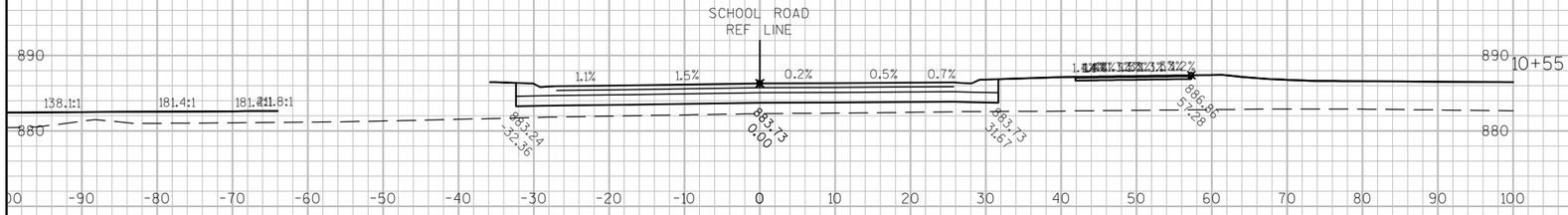
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35 / MAIN ST RAB	SHEET 836	E

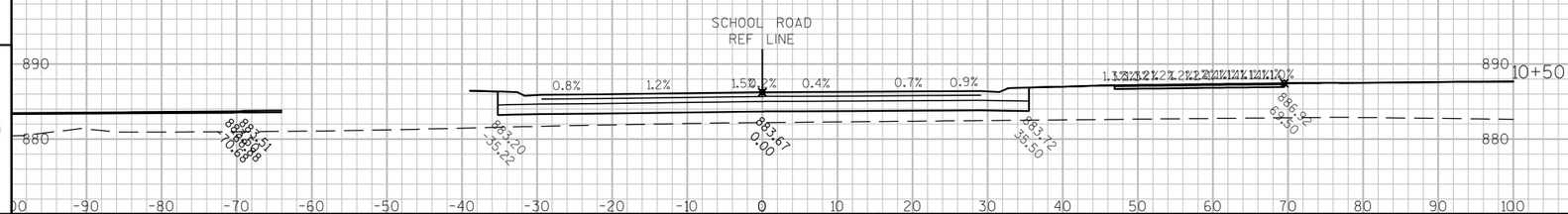
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_MAIN ST RAB.DWG
LAYOUT NAME - XS - (83)

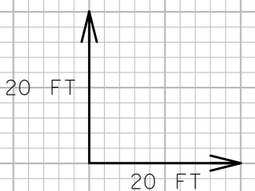
PLOT DATE : 9/26/2014 2:28 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49









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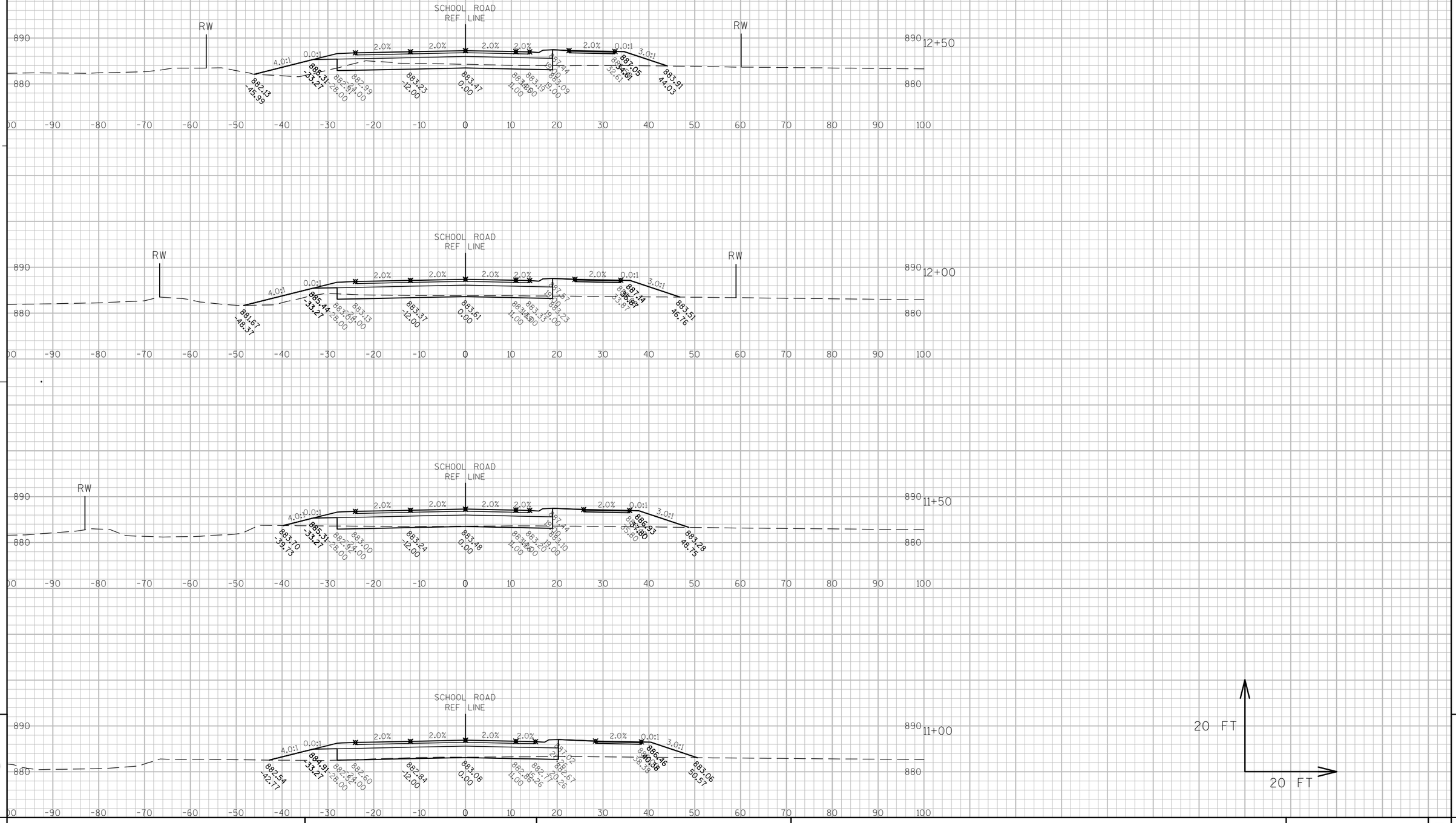
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SCHOOL ROAD	SHEET 837	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090273_XS_SCHOOLRD.DWG
LAYOUT NAME - XS - (1)
PLOT DATE : 9/26/2014 2:17 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME : ----------
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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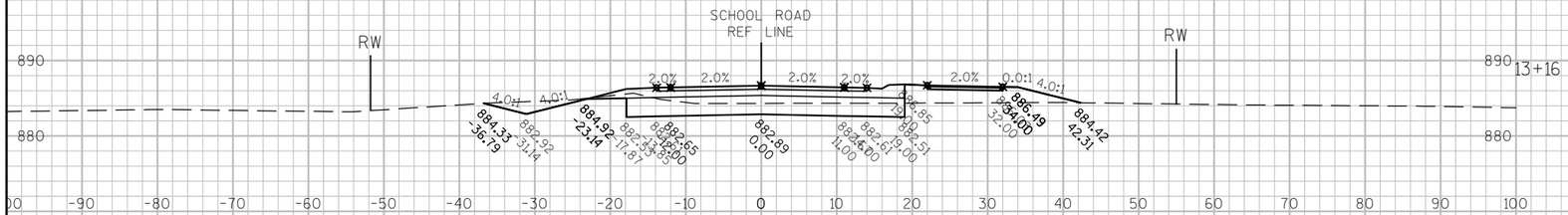
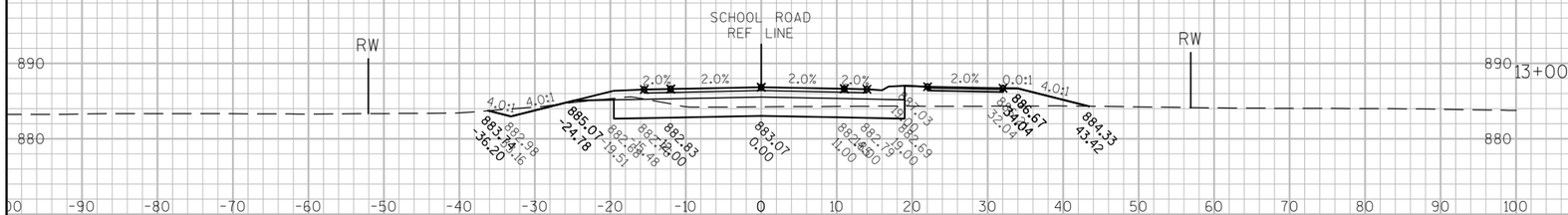
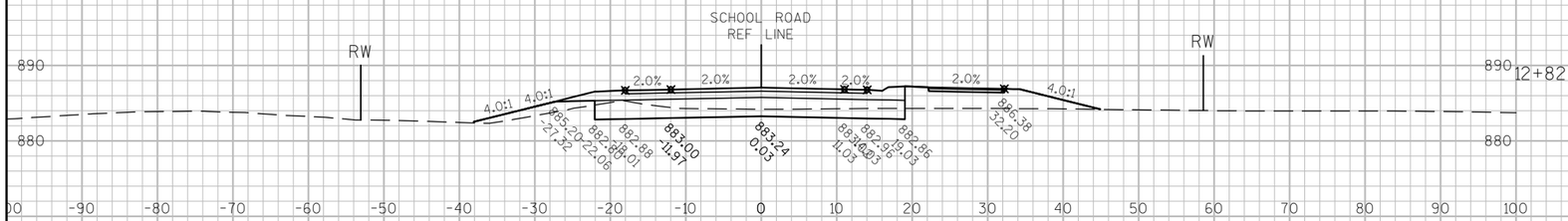
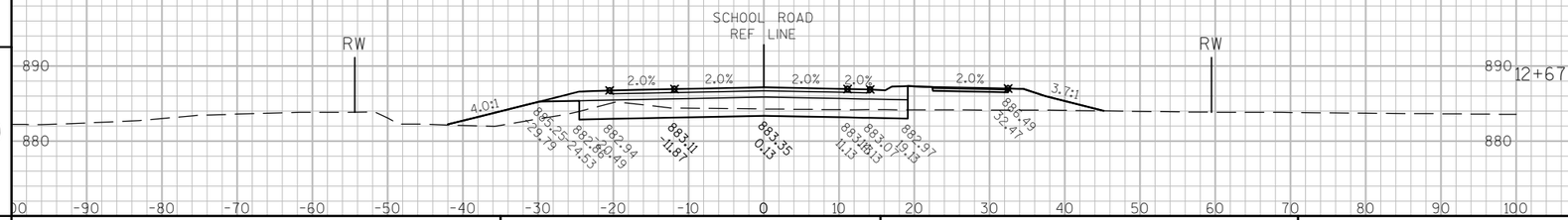
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SCHOOL ROAD	SHEET 838	E

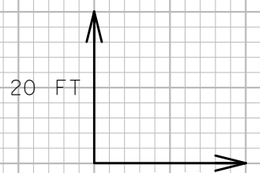
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090273_XS_SCHOOLRD.DWG
LAYOUT NAME - XS - (2)
PLOT DATE : 9/26/2014 2:17 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME : ----------
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49











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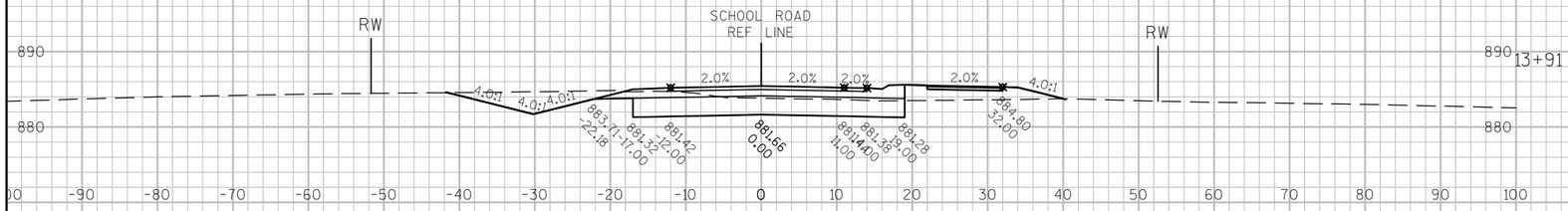
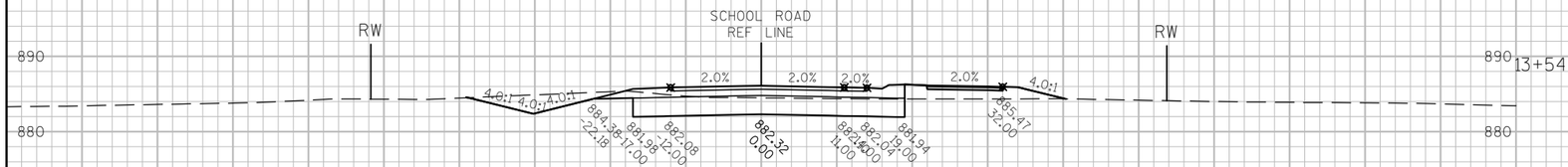
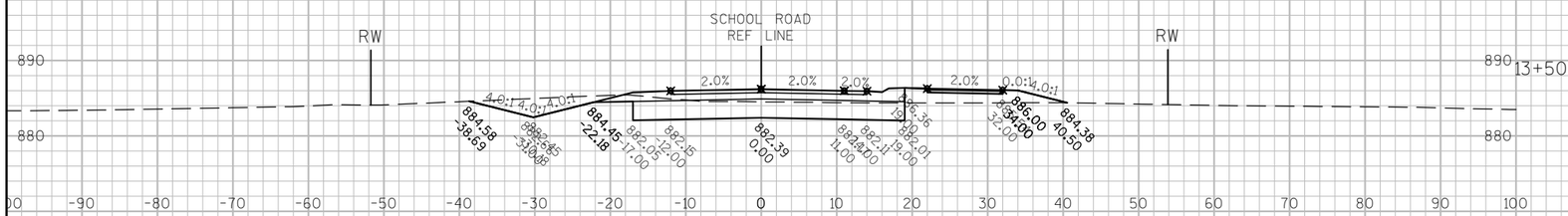
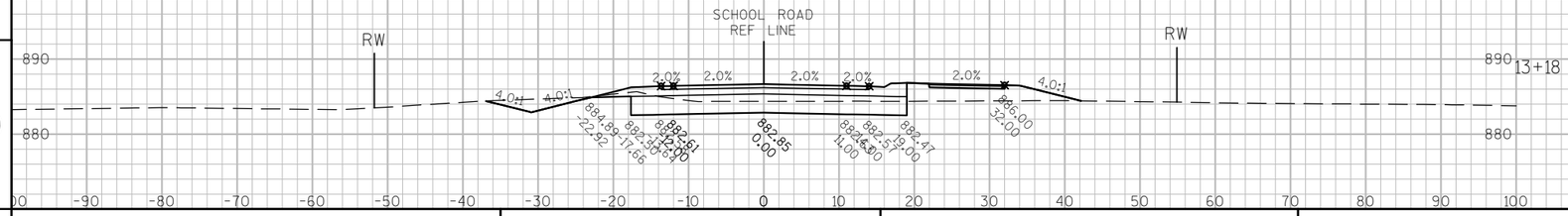
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SCHOOL ROAD	SHEET 839	E

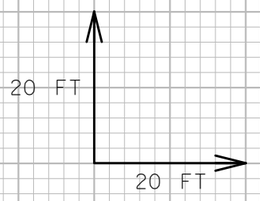
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090273_XS_SCHOOLRD.DWG
LAYOUT NAME - XS - (3)
PLOT DATE : 9/26/2014 2:17 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME : ----------
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49











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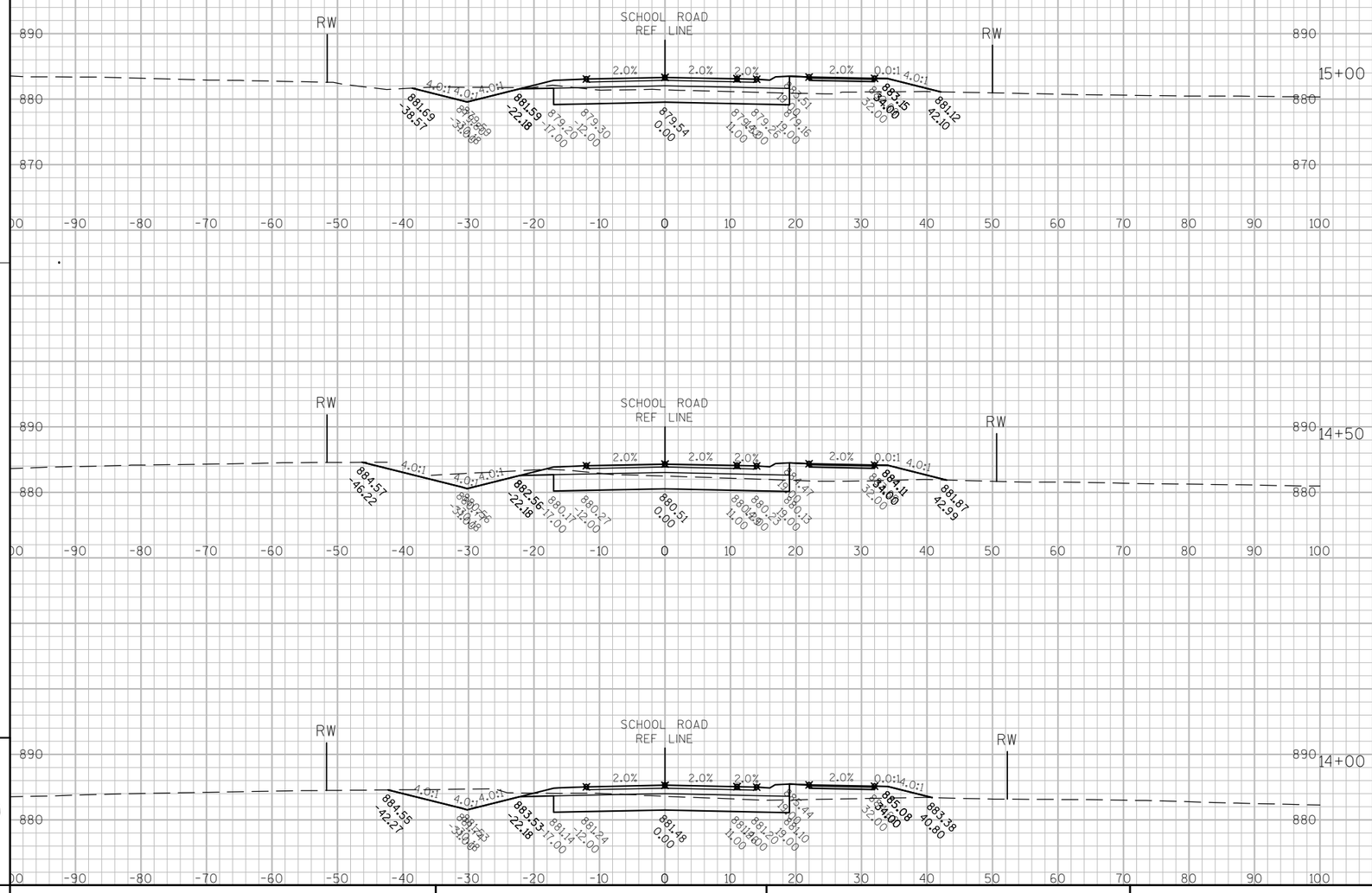
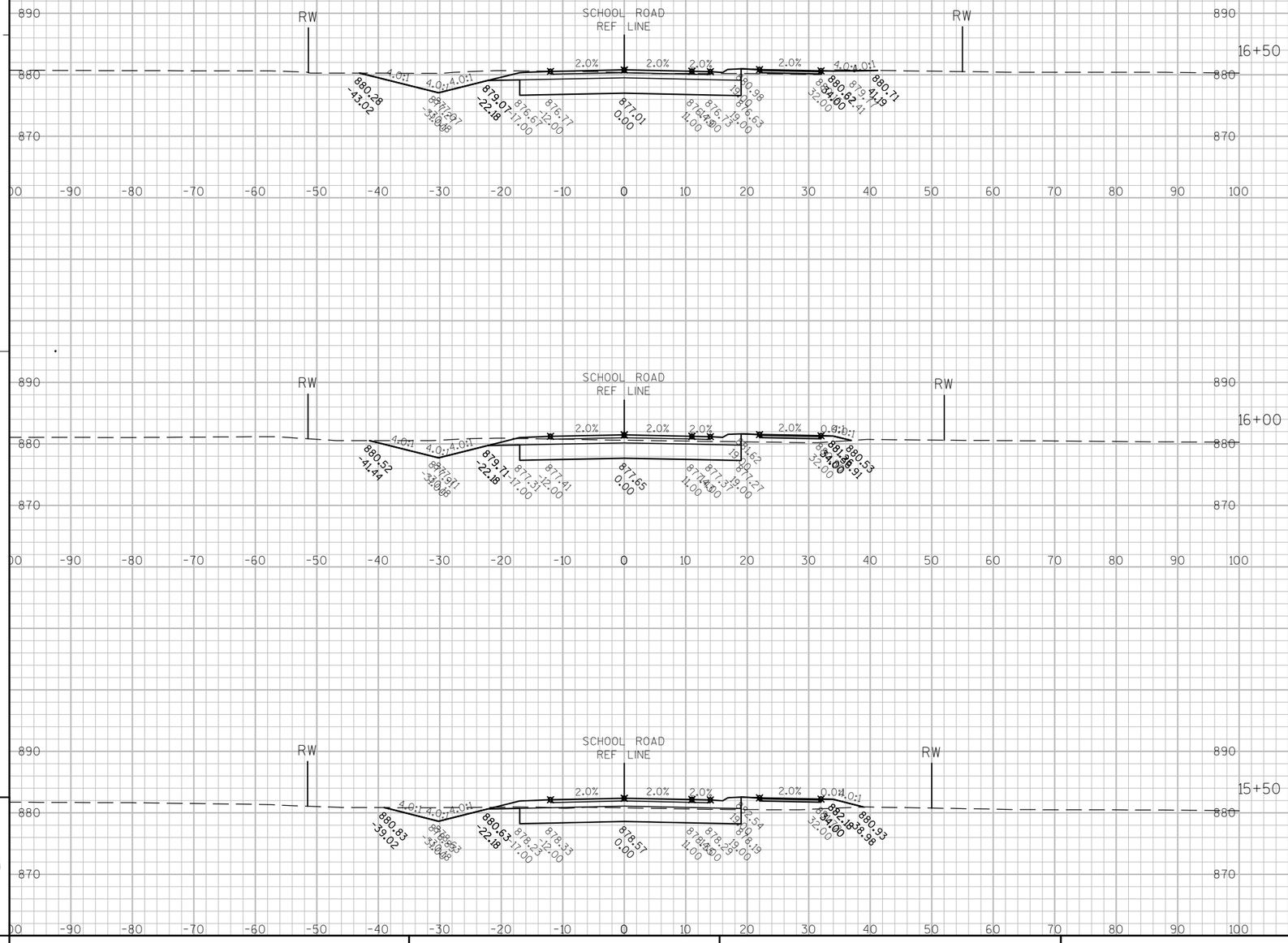
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SCHOOL ROAD	SHEET 840	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090273_XS_SCHOOLRD.DWG
LAYOUT NAME - XS - (4)
PLOT DATE : 9/26/2014 2:17 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME : ----------
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49


RW
SCHOOL ROAD
REF LINE
RW
15+00
14+50
14+00
890
880
870
4.0:1
2.0%
0.0:1
-90
-80
-70
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
80
90
100

20 FT

20 FT



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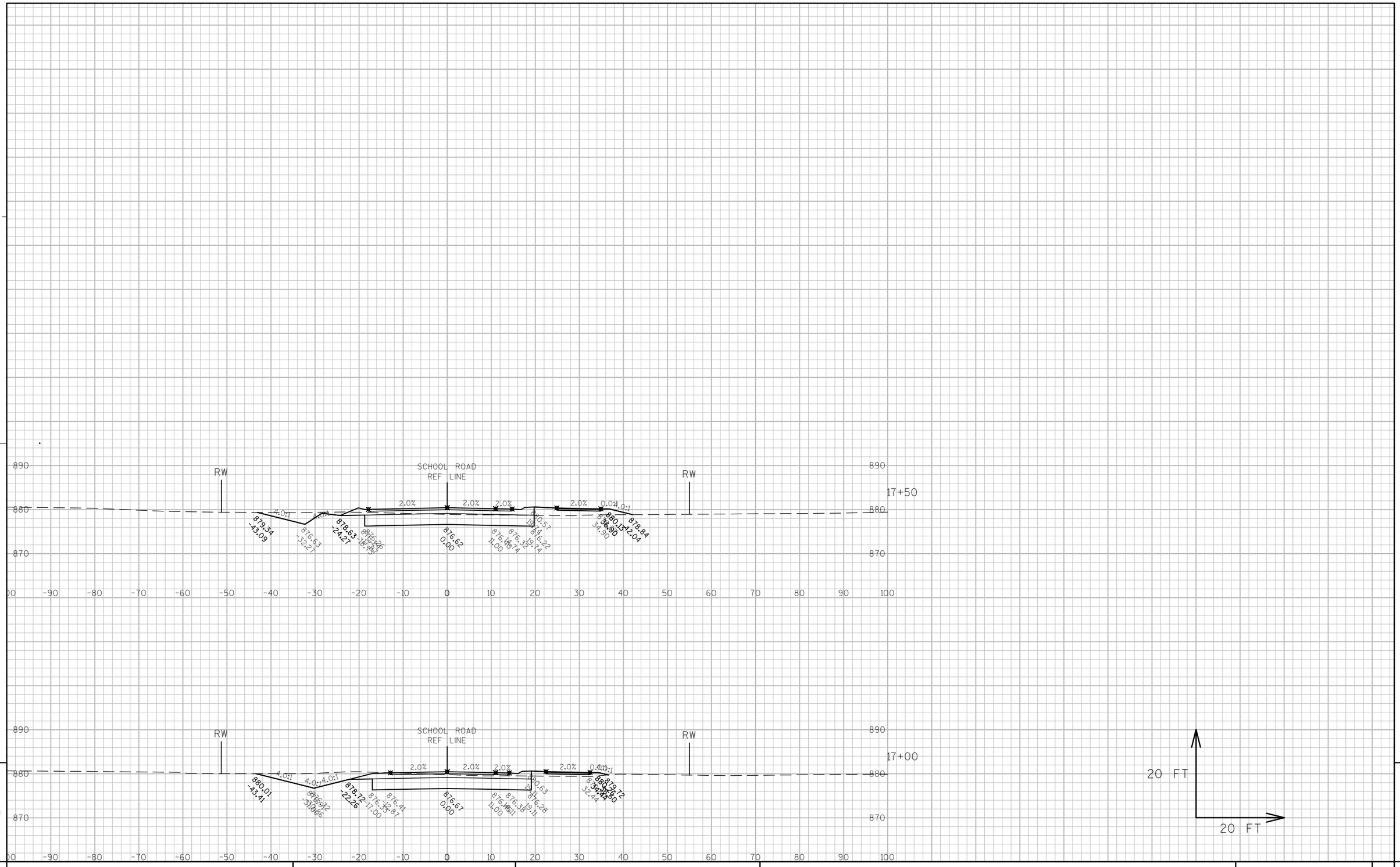
PROJECT NO: 8110-02-72 | HWY: STH 64 | COUNTY: ST. CROIX | CROSS SECTIONS: SCHOOL ROAD | SHEET 842 | E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090273_XS_SCHOOLRD.DWG
LAYOUT NAME - XS - (6)
PLOT DATE : 9/26/2014 2:18 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME : ----------
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

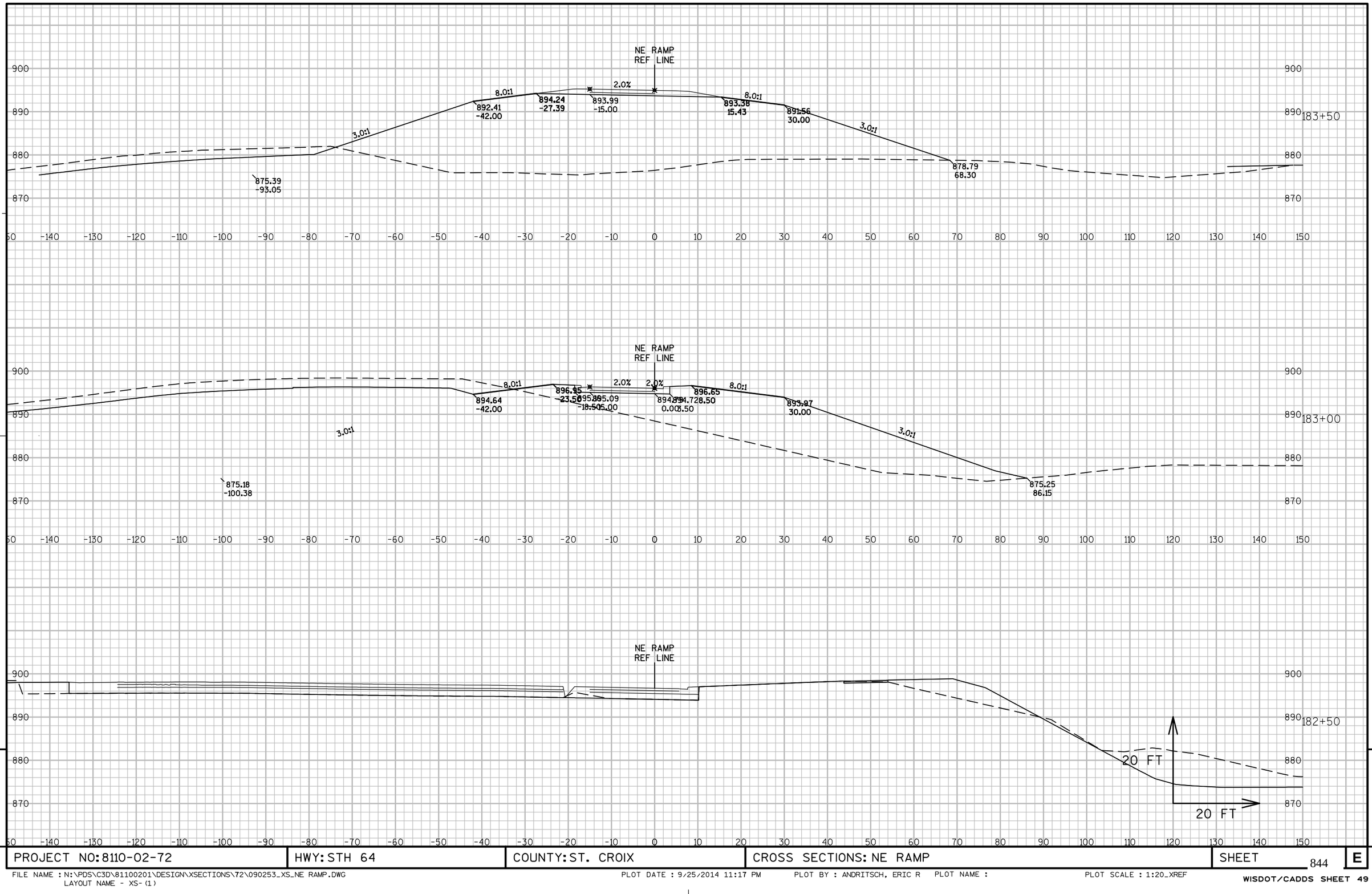


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SCHOOL ROAD	SHEET 843	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090273_XS_SCHOOLRD.DWG
LAYOUT NAME - XS - (7)

PLOT DATE : 9/26/2014 2:18 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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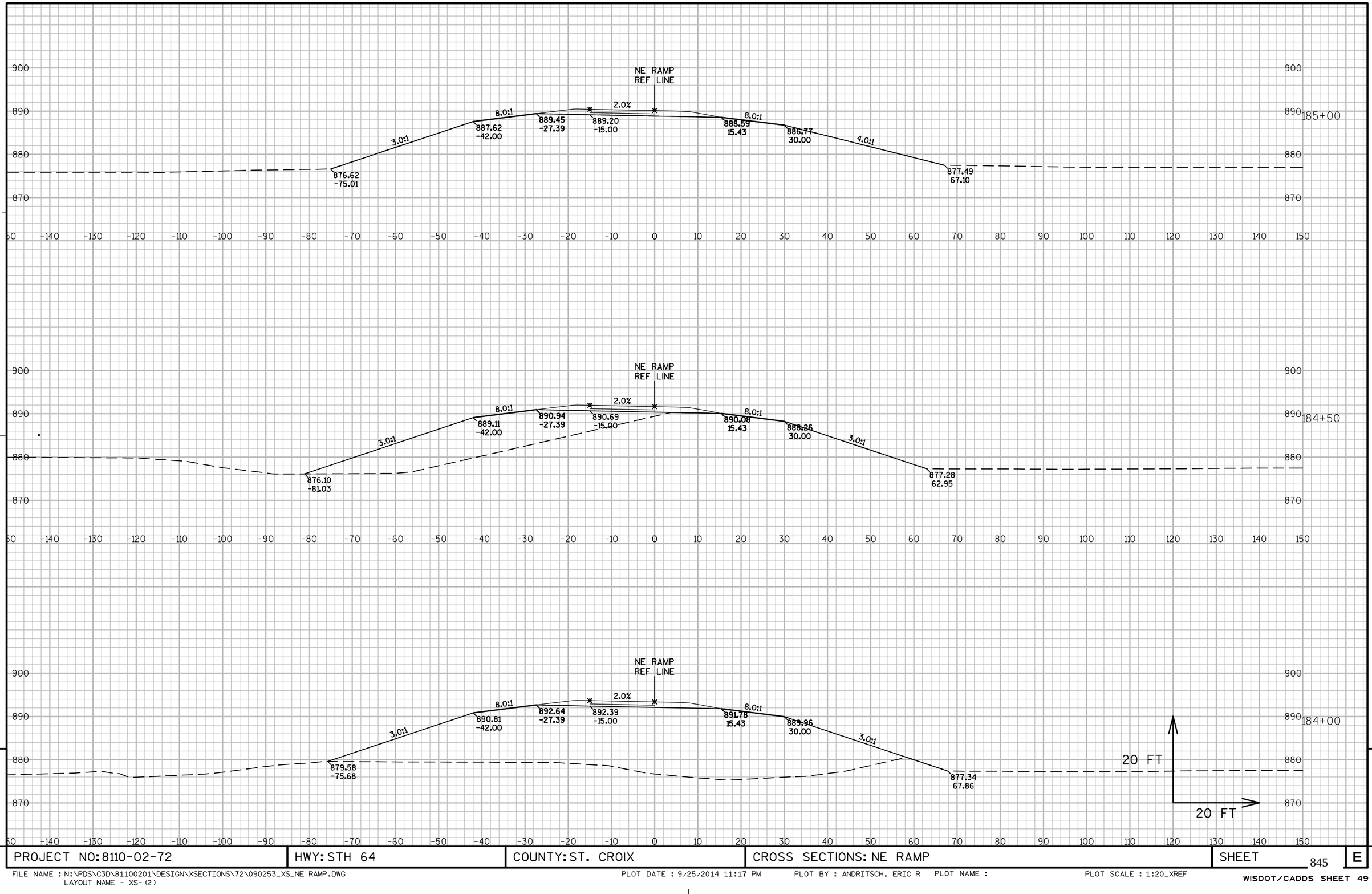
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 844	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(1)

PLOT DATE : 9/25/2014 11:17 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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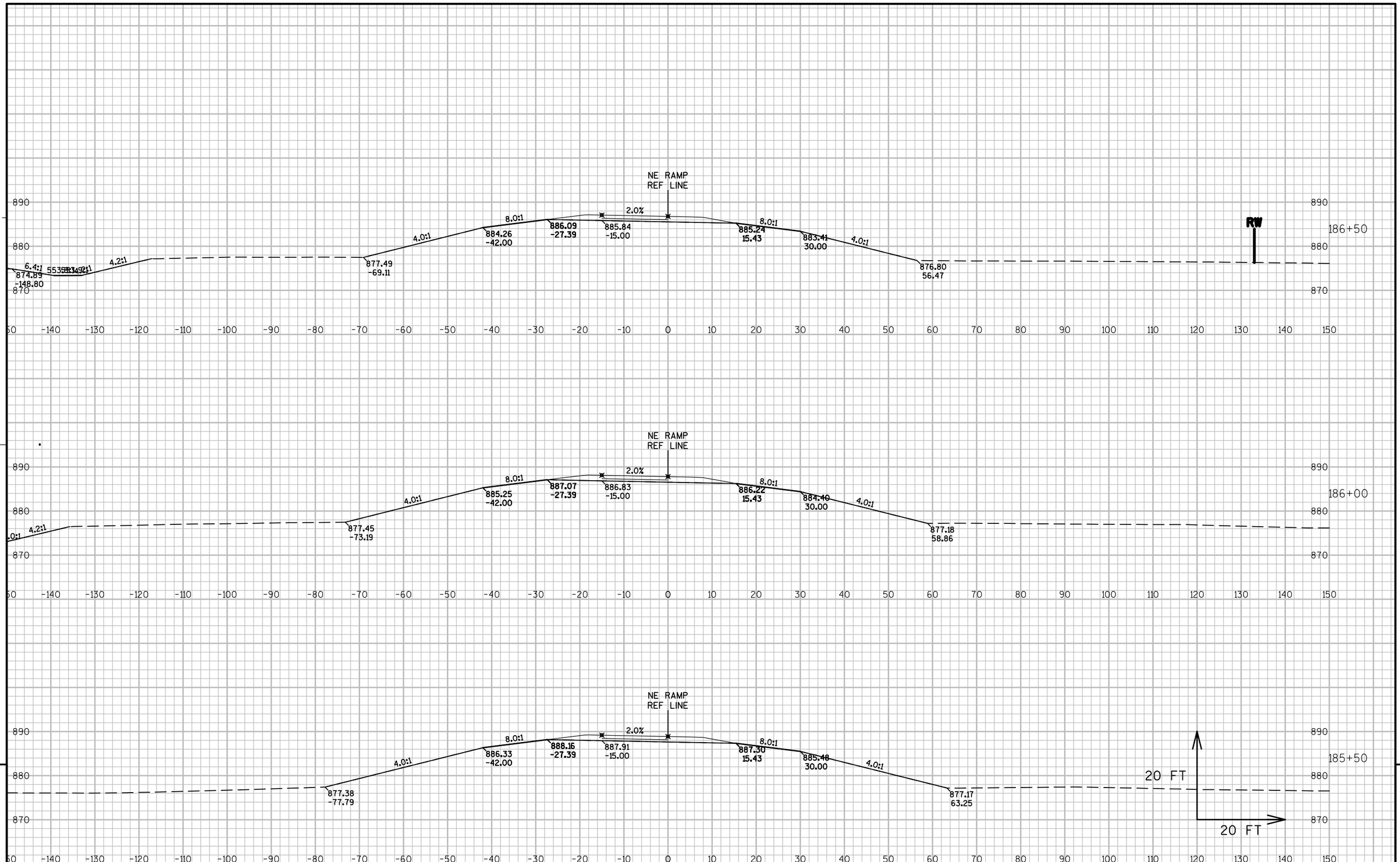
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 845	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(2)

PLOT DATE : 9/25/2014 11:17 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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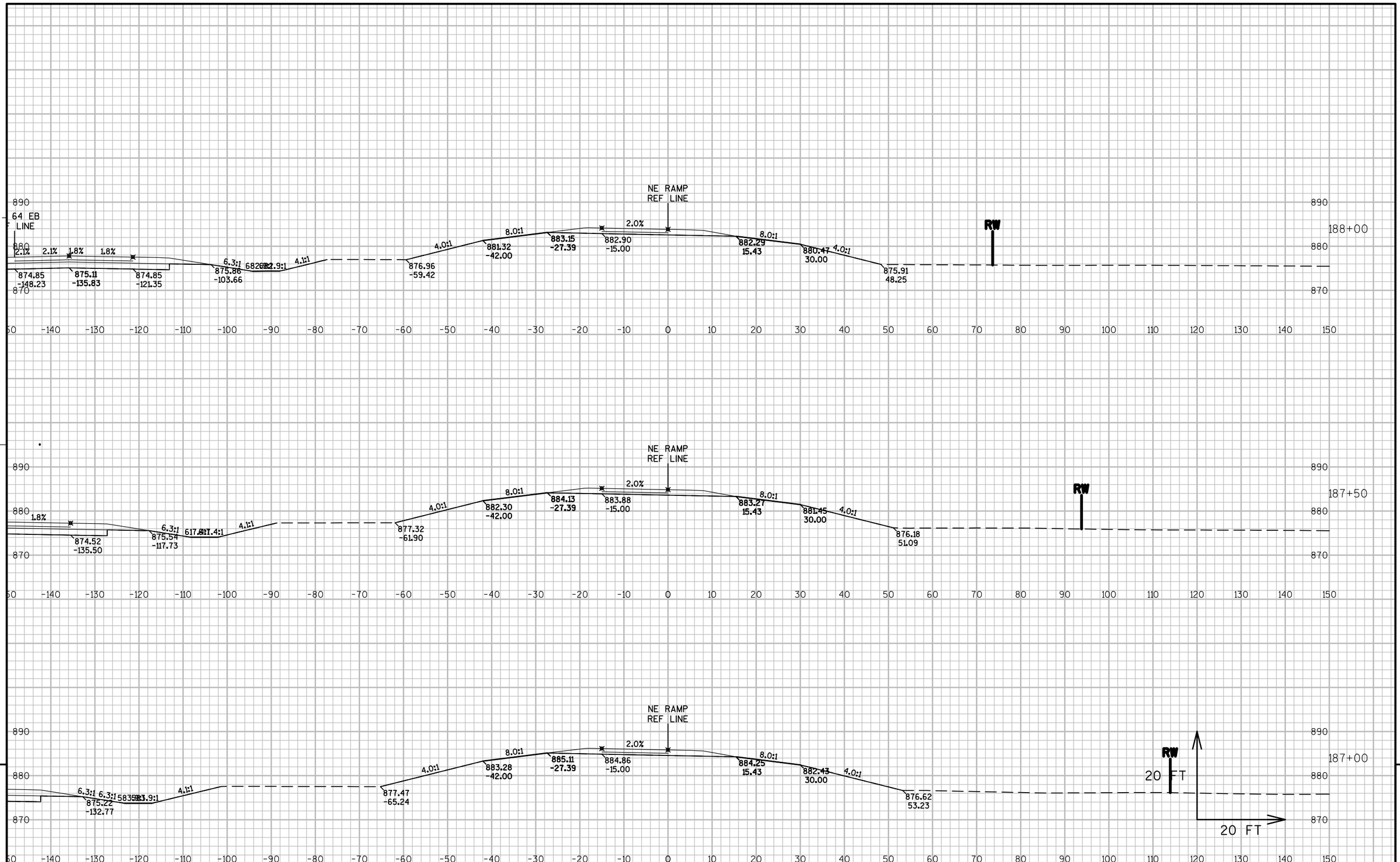
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 846	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(3)

PLOT DATE : 9/25/2014 11:17 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

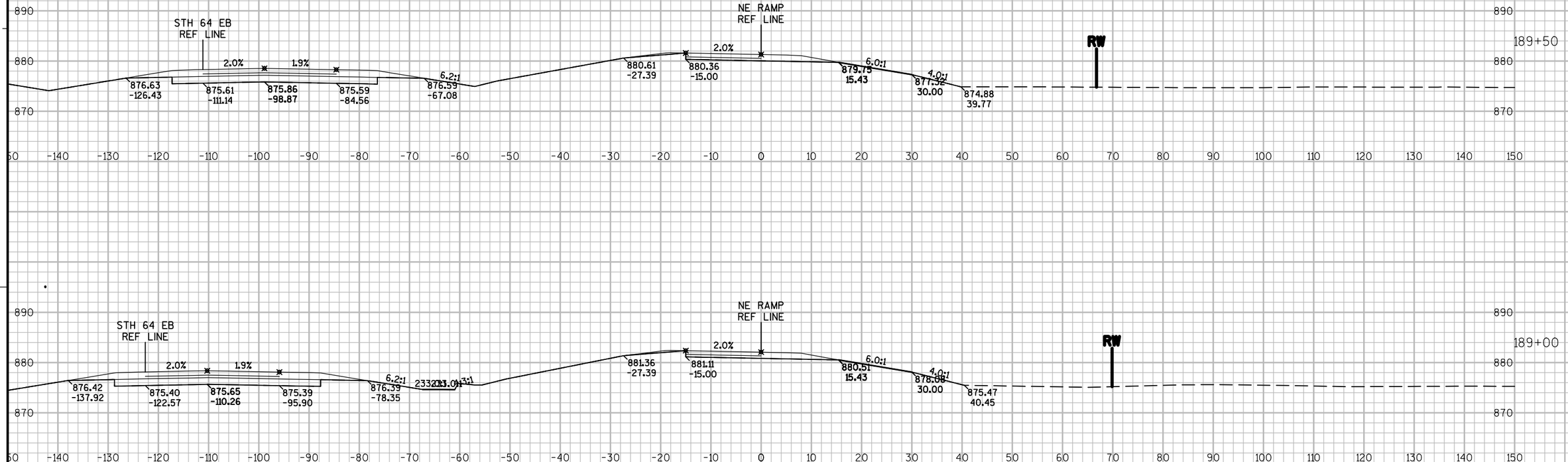


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 847	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(4)

PLOT DATE : 9/25/2014 11:17 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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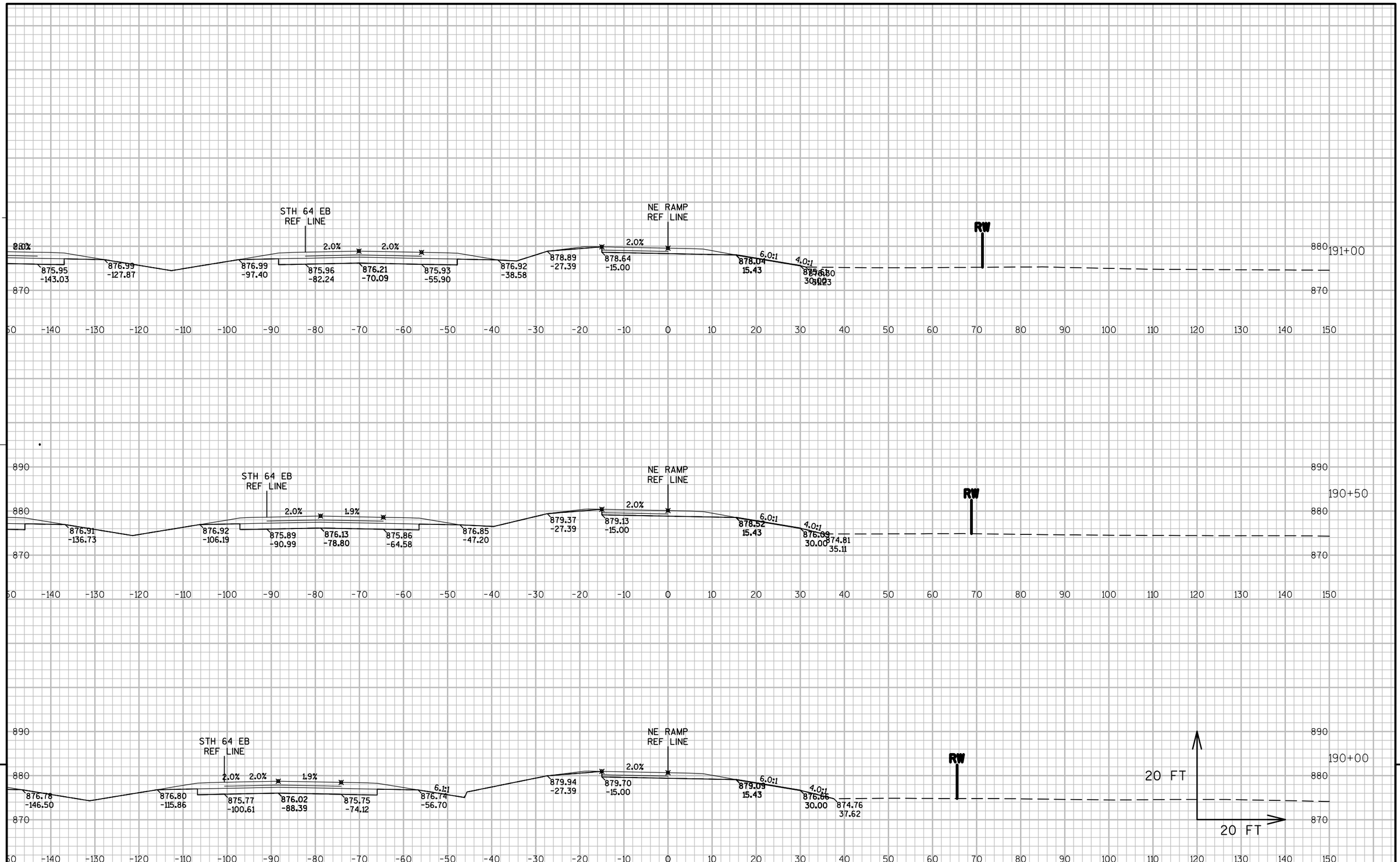
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 848	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(5)

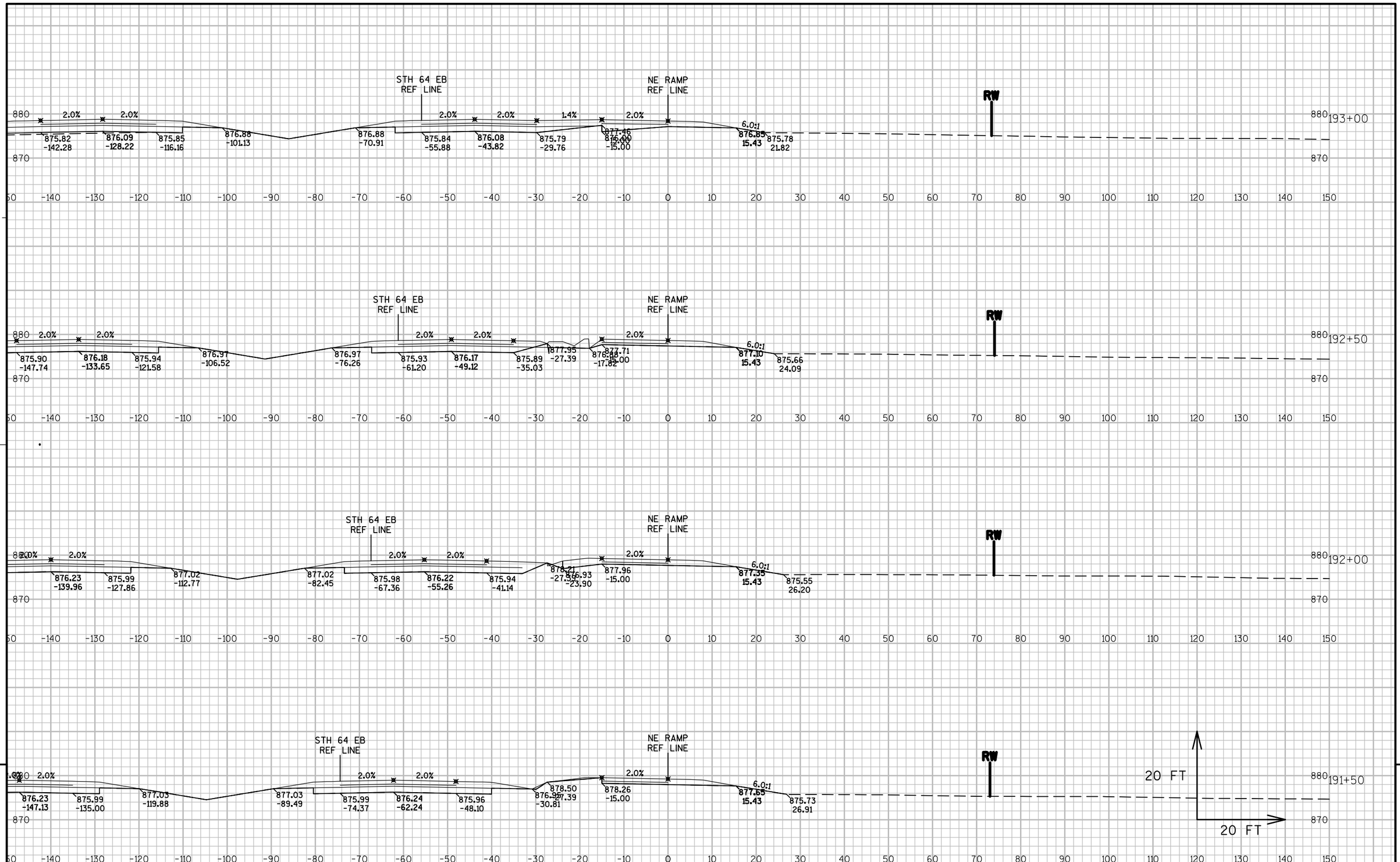
PLOT DATE : 9/25/2014 11:18 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 849	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(6)

PLOT DATE : 9/25/2014 11:18 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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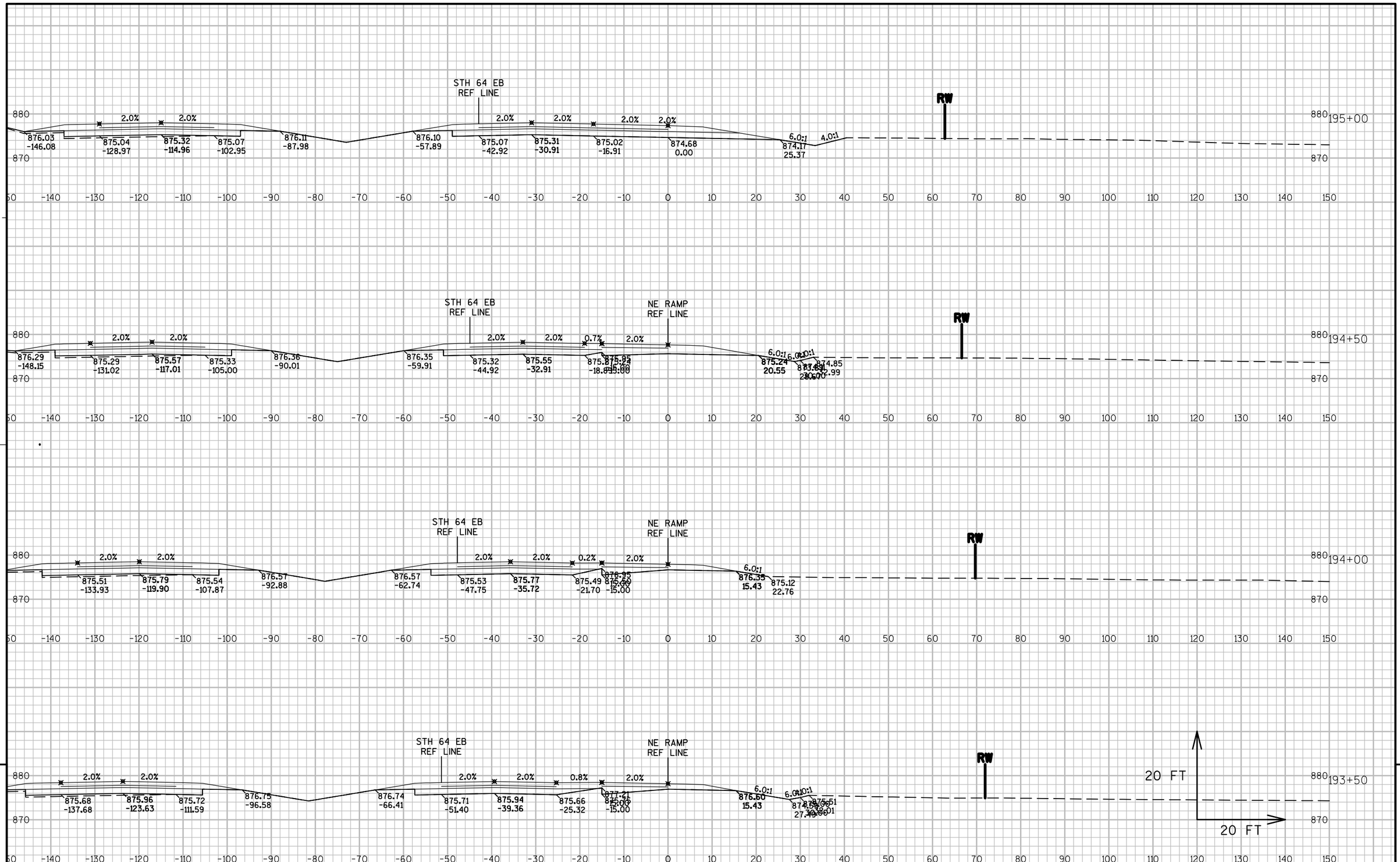
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 850	E

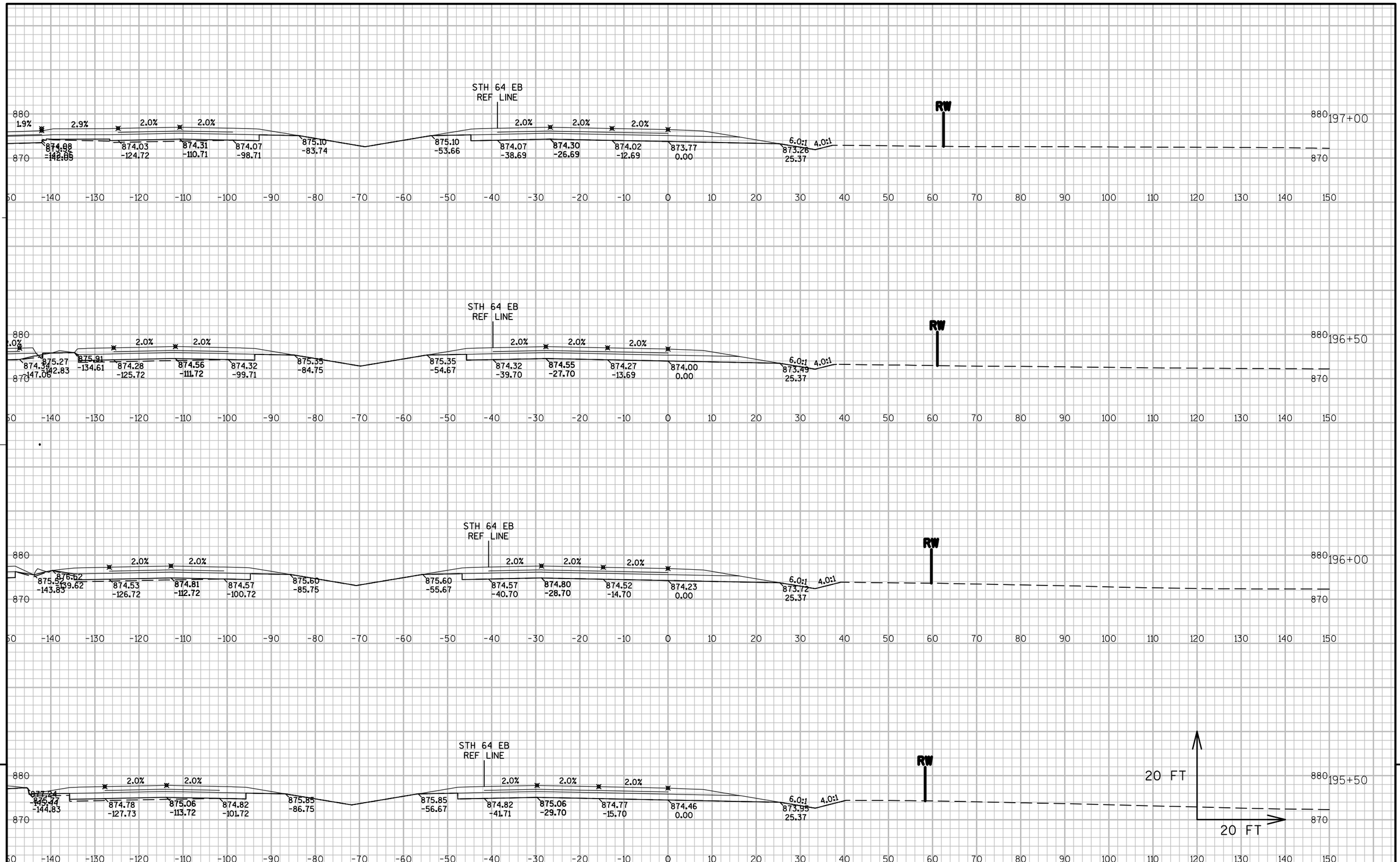


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 851	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(8)

PLOT DATE : 9/25/2014 11:18 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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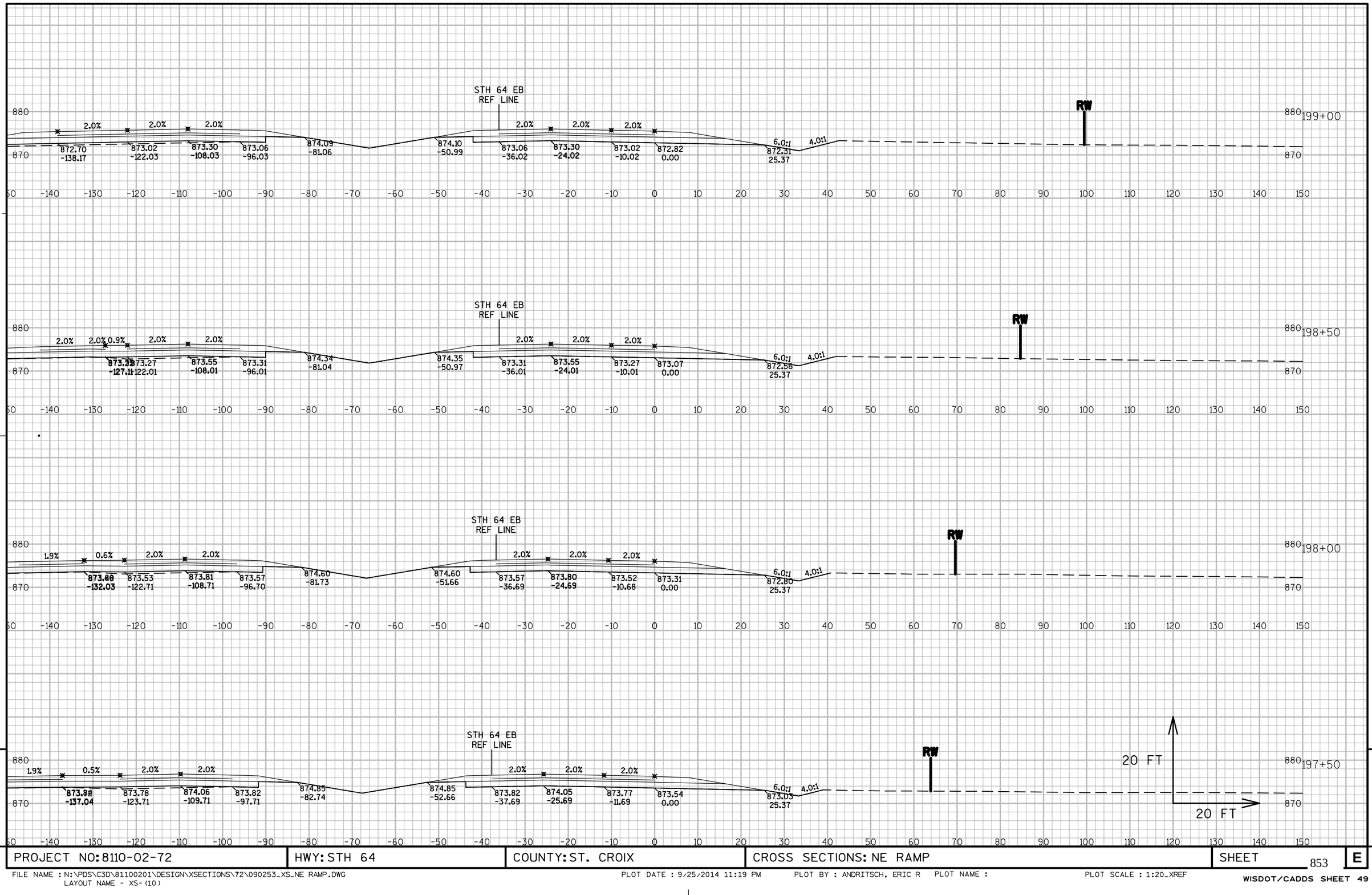
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 852	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(9)
PLOT DATE : 9/25/2014 11:19 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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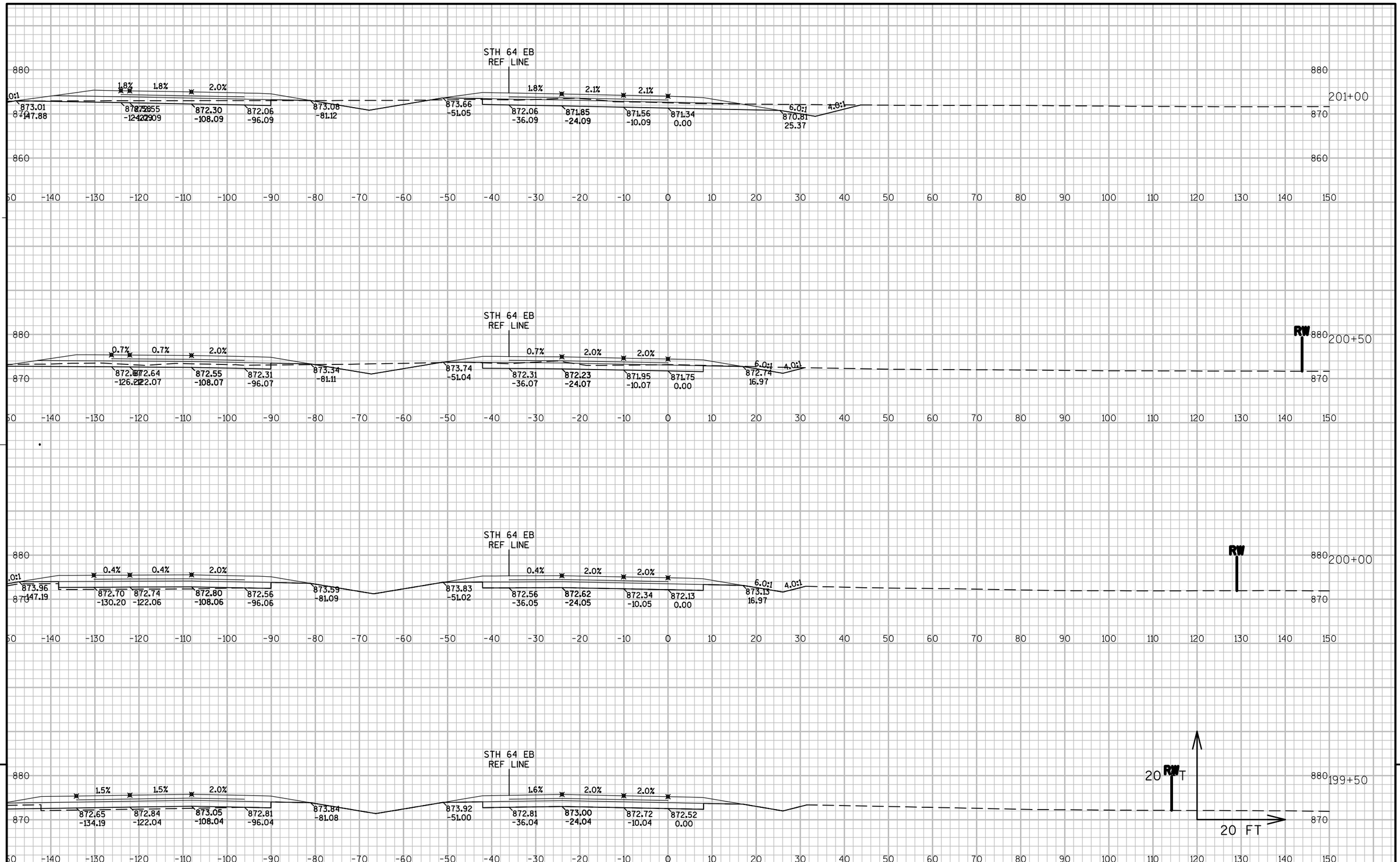
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 853	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(10)

PLOT DATE : 9/25/2014 11:19 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

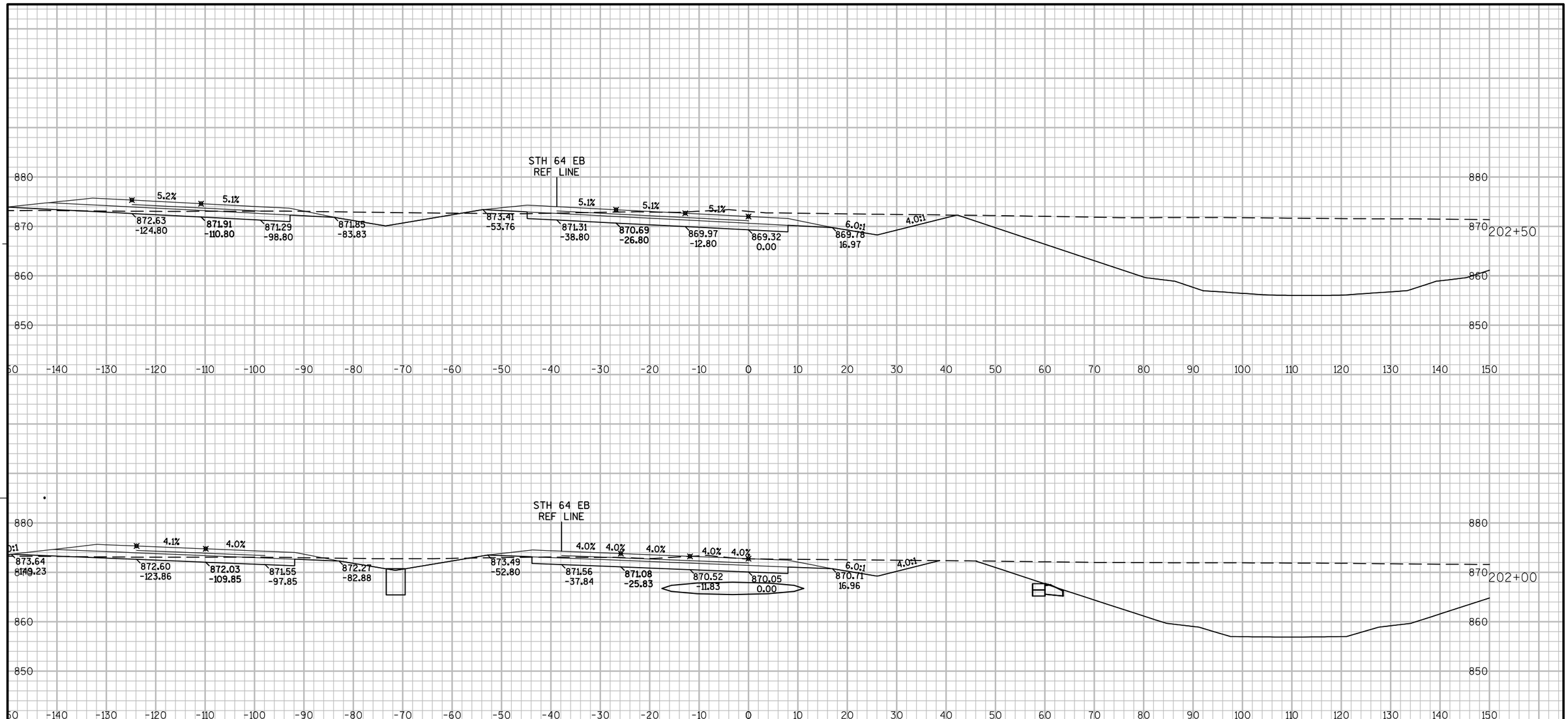
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 854	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(11)

PLOT DATE : 9/25/2014 11:19 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

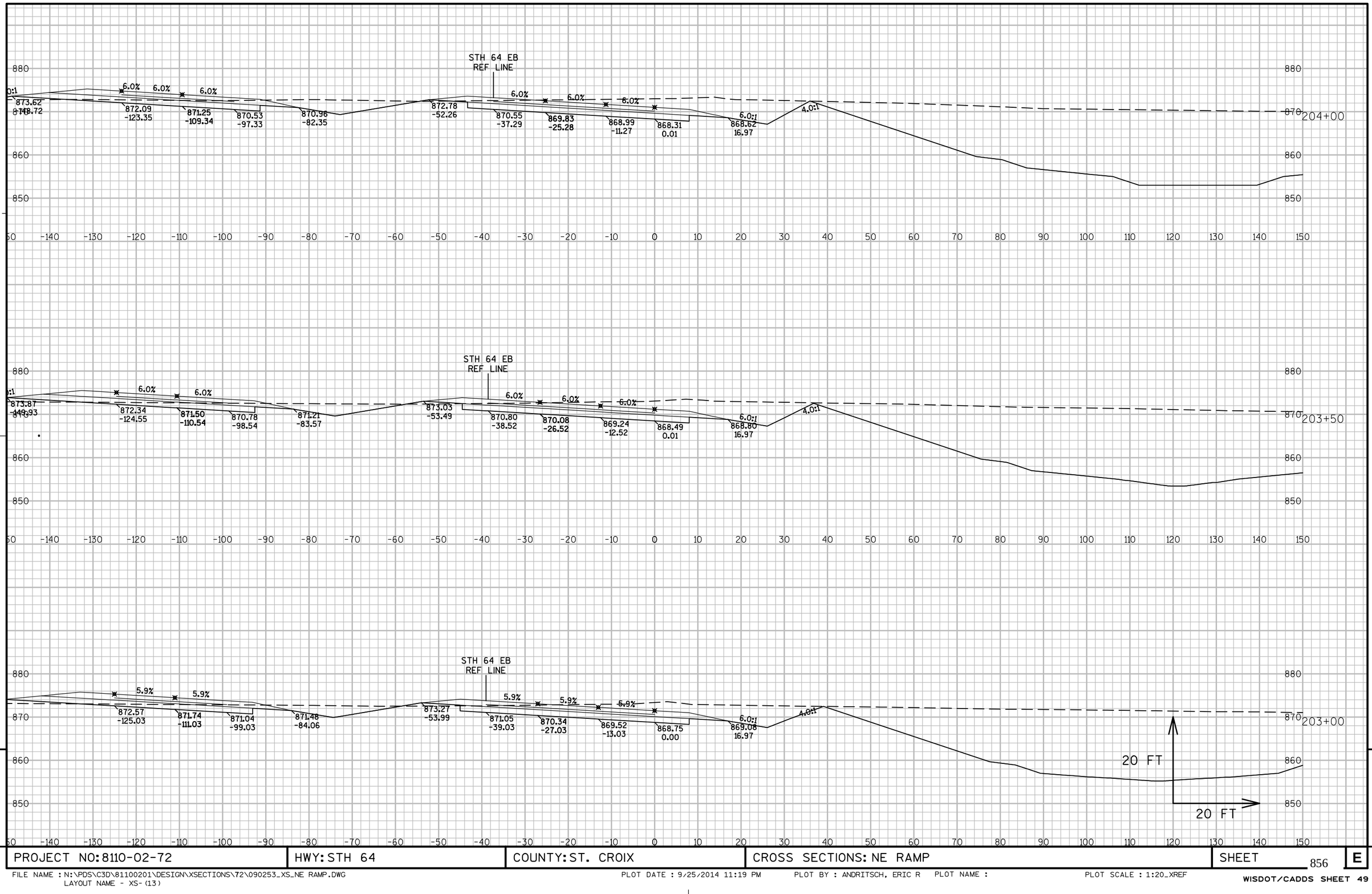


9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 855 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(12)

PLOT DATE : 9/25/2014 11:19 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

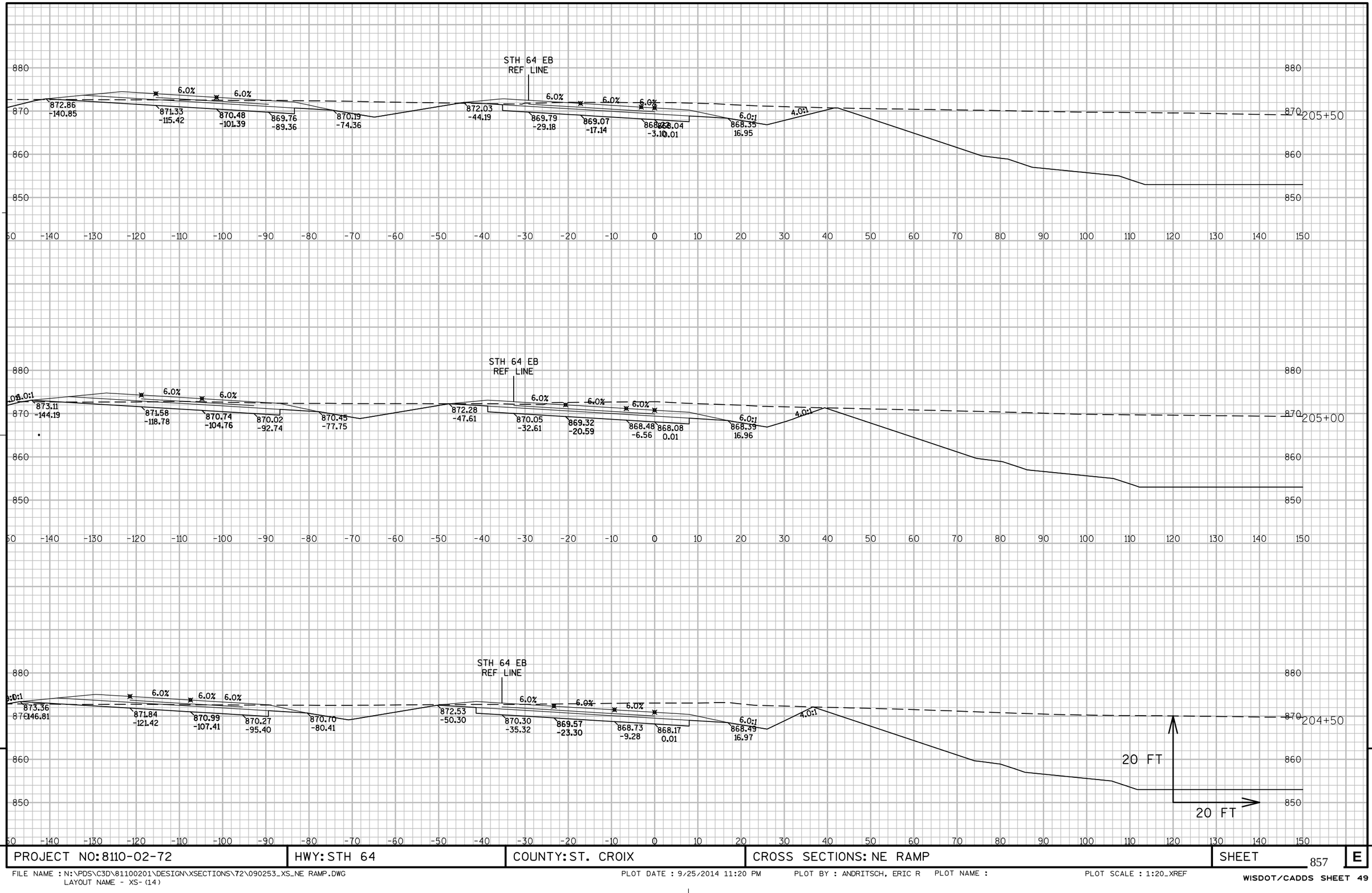


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 856	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(13)

PLOT DATE : 9/25/2014 11:19 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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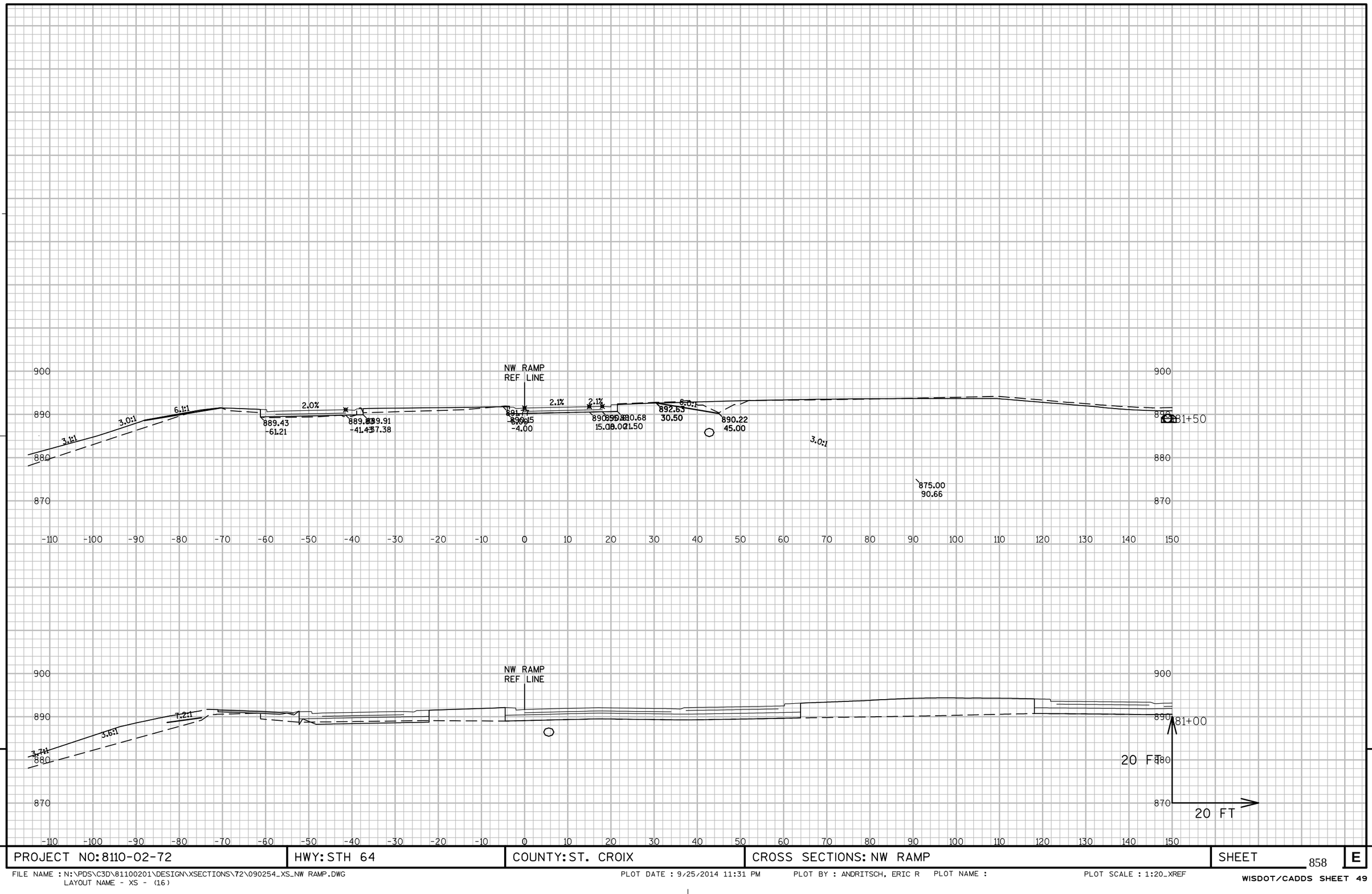
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NE RAMP	SHEET 857	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090253_XS_NE RAMP.DWG
LAYOUT NAME - XS-(14)

PLOT DATE : 9/25/2014 11:20 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



9

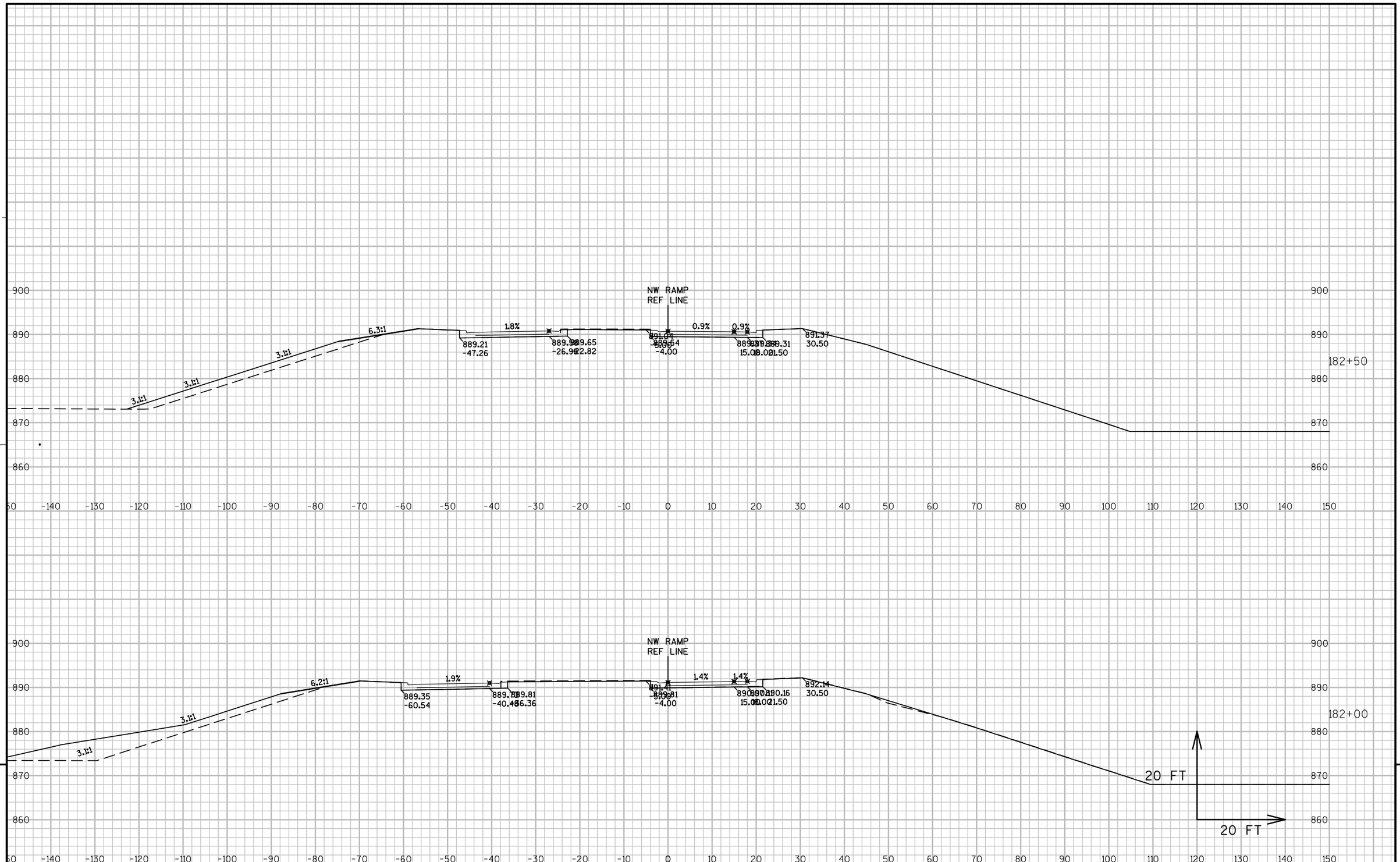
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 858	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (16)

PLOT DATE : 9/25/2014 11:31 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

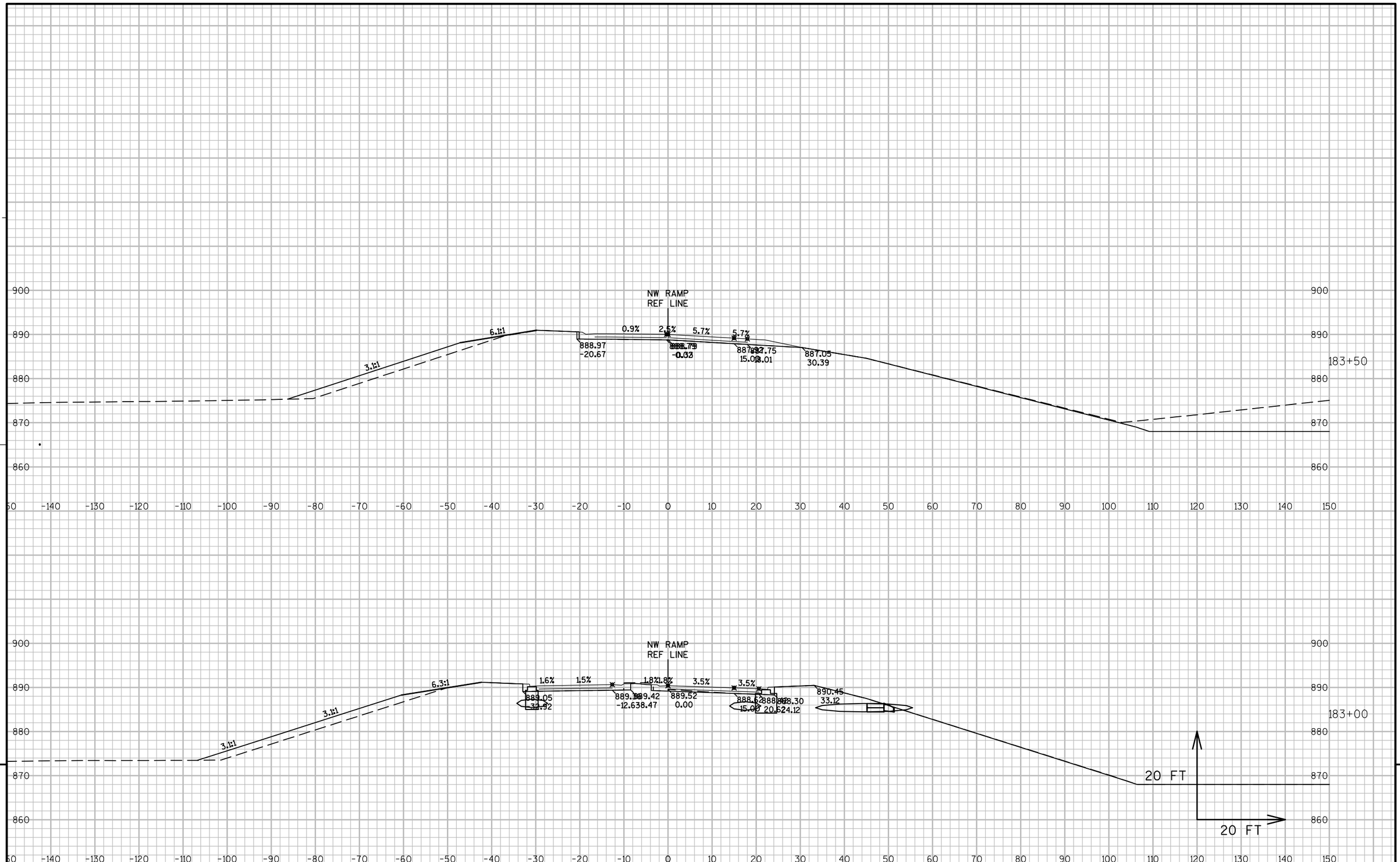


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 859	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (17)

PLOT DATE : 9/25/2014 11:31 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

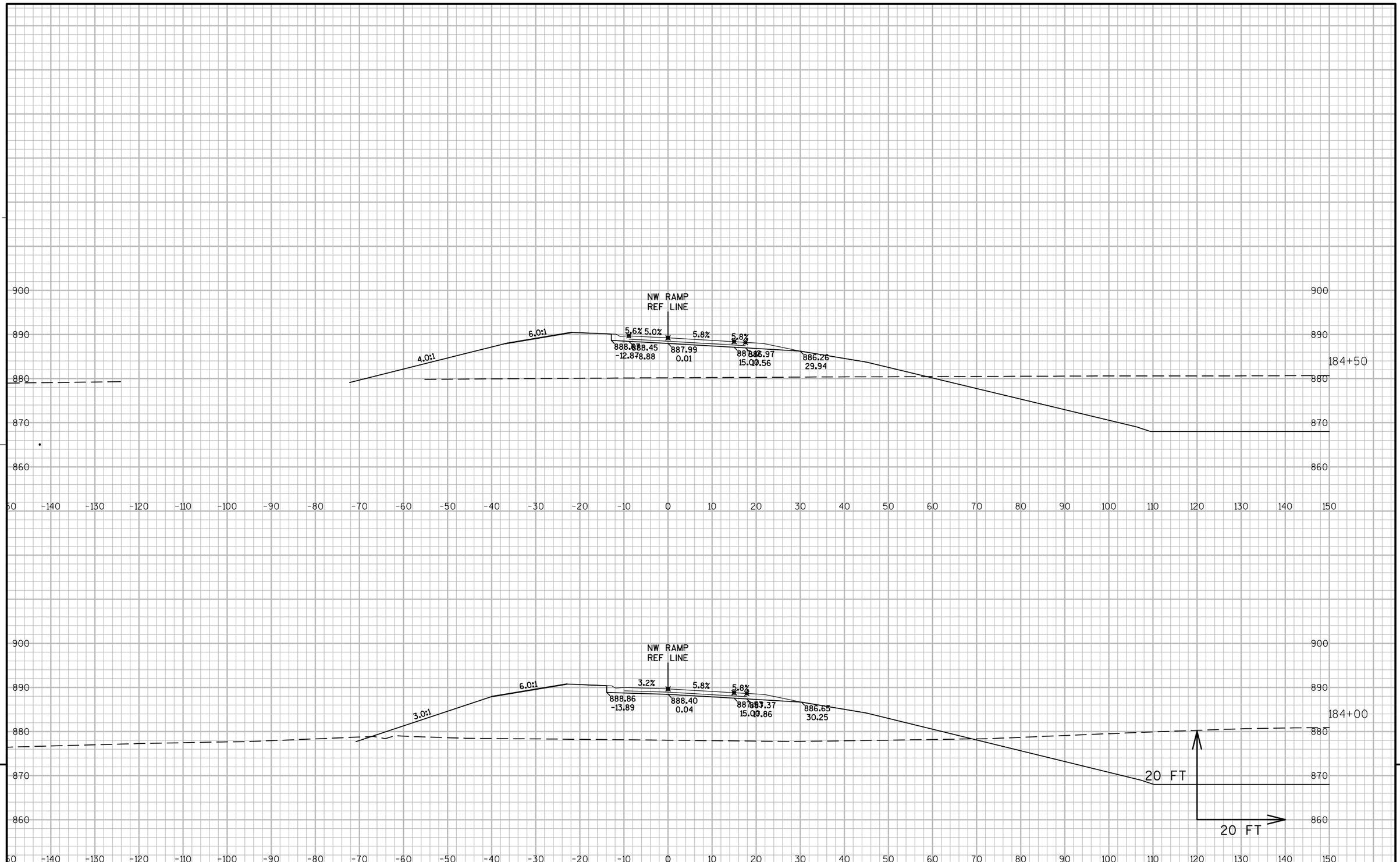


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 860	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (18)

PLOT DATE : 9/25/2014 11:31 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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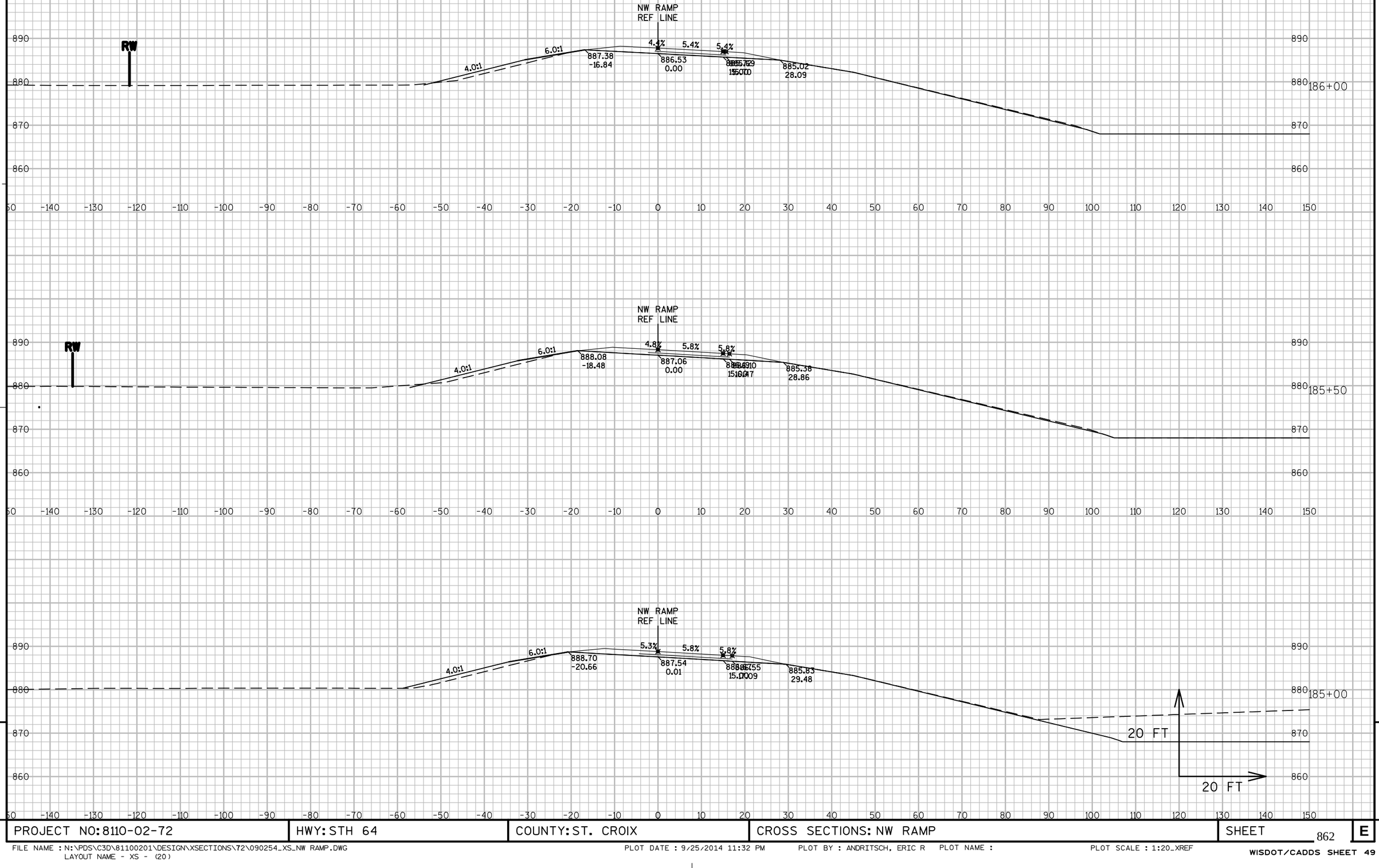
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 861	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (19)

PLOT DATE : 9/25/2014 11:31 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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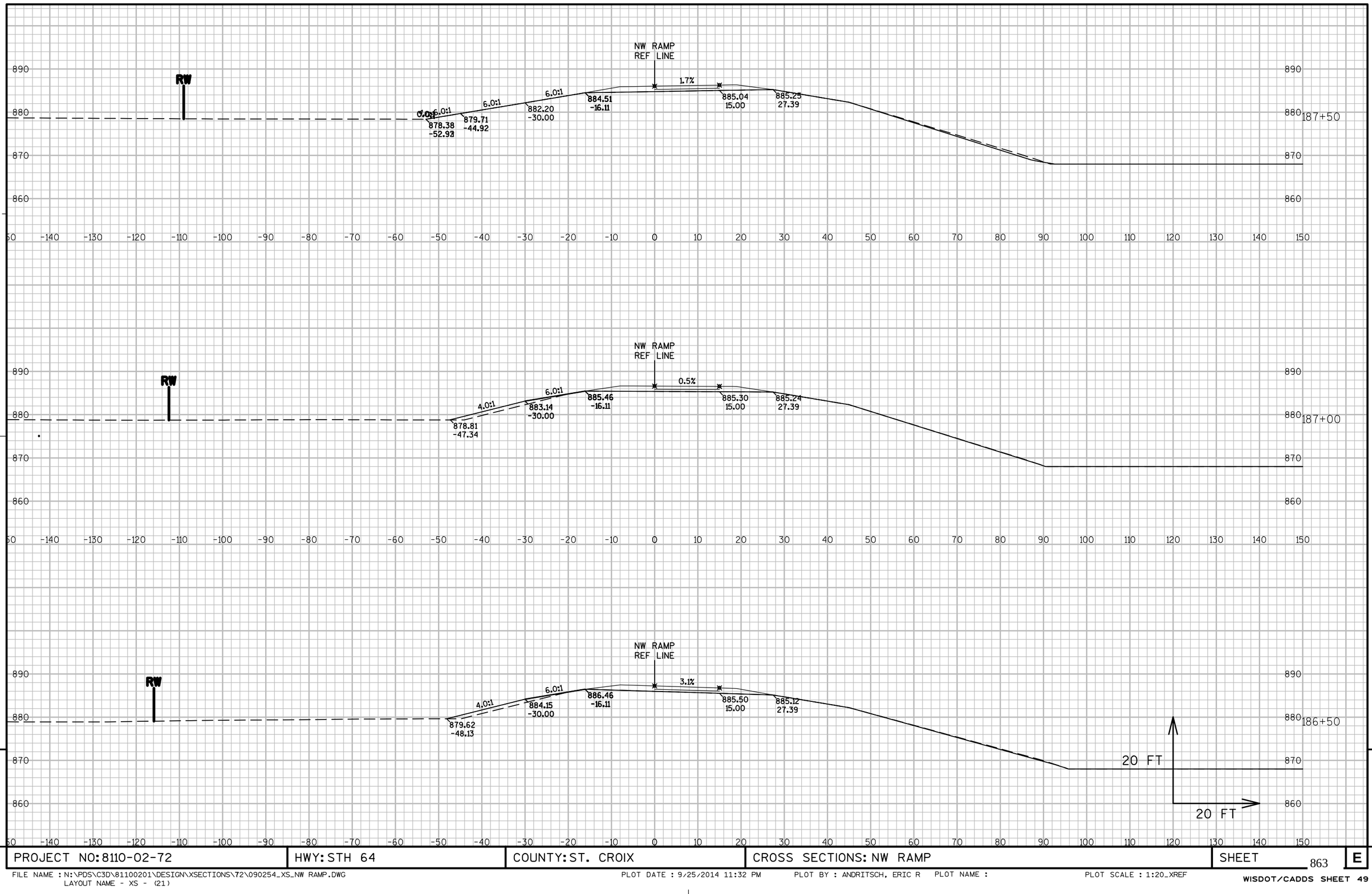
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 862	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (20)
PLOT DATE : 9/25/2014 11:32 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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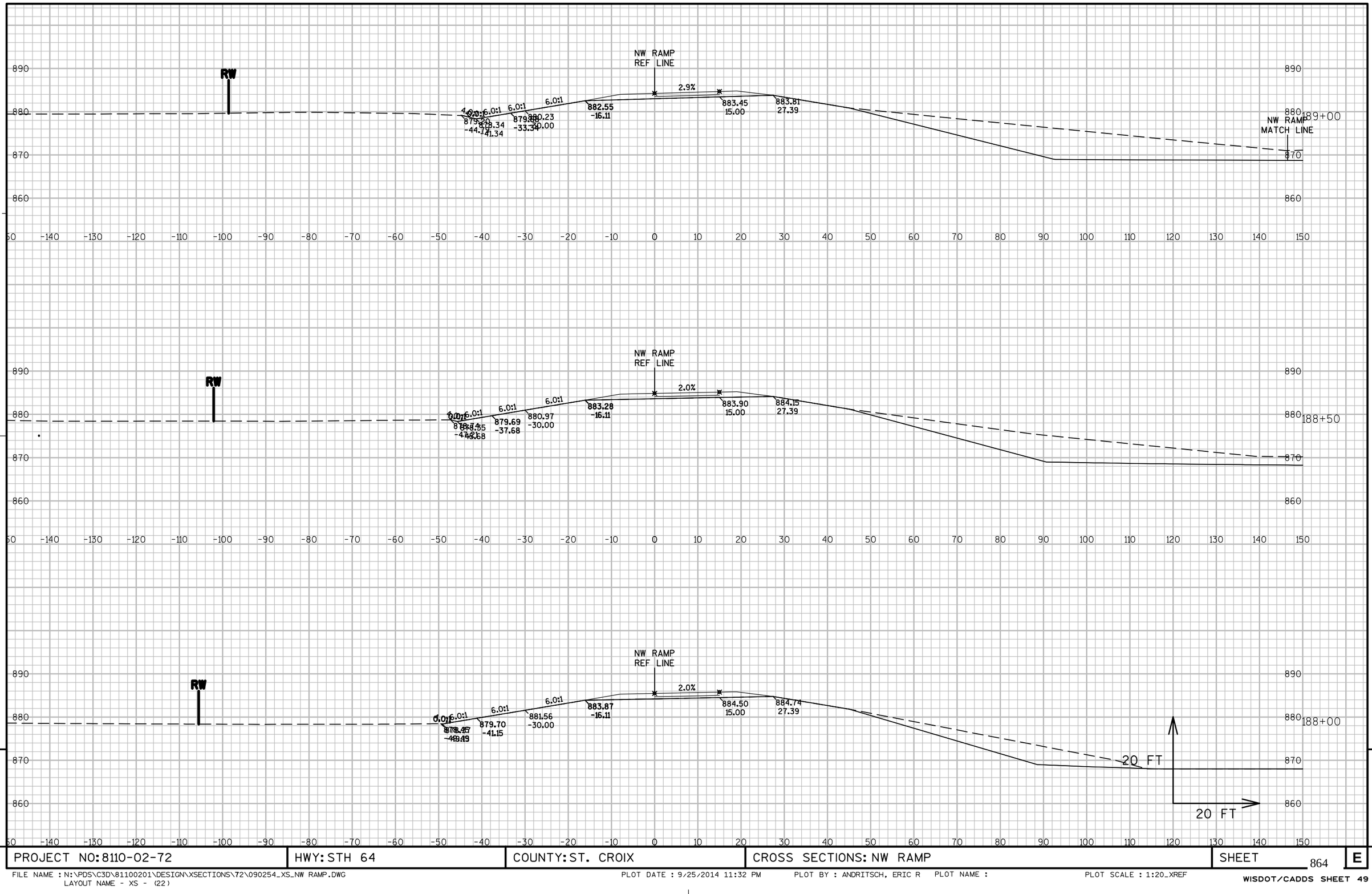
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 863	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (21)

PLOT DATE : 9/25/2014 11:32 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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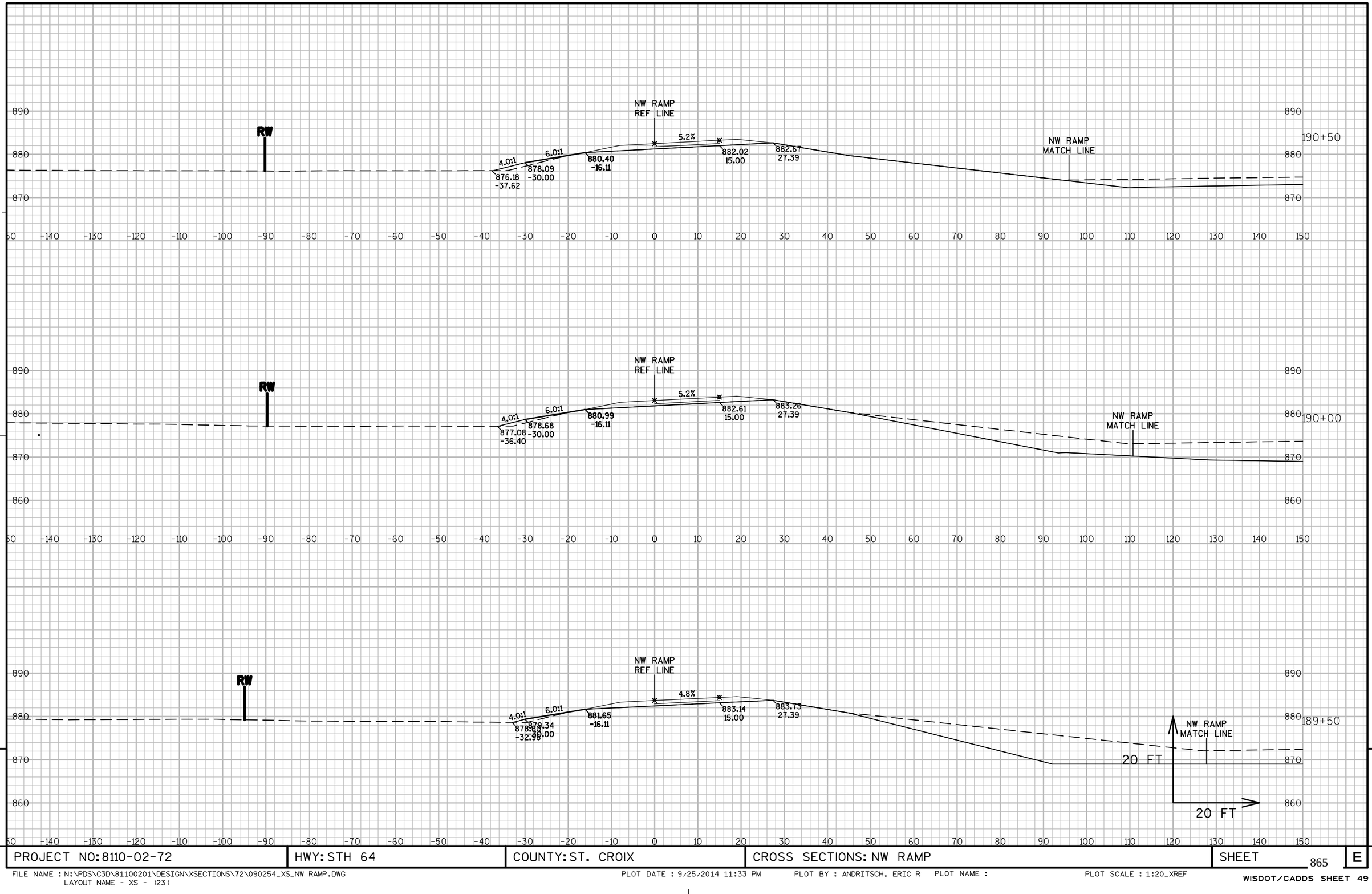
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 864	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (22)

PLOT DATE : 9/25/2014 11:32 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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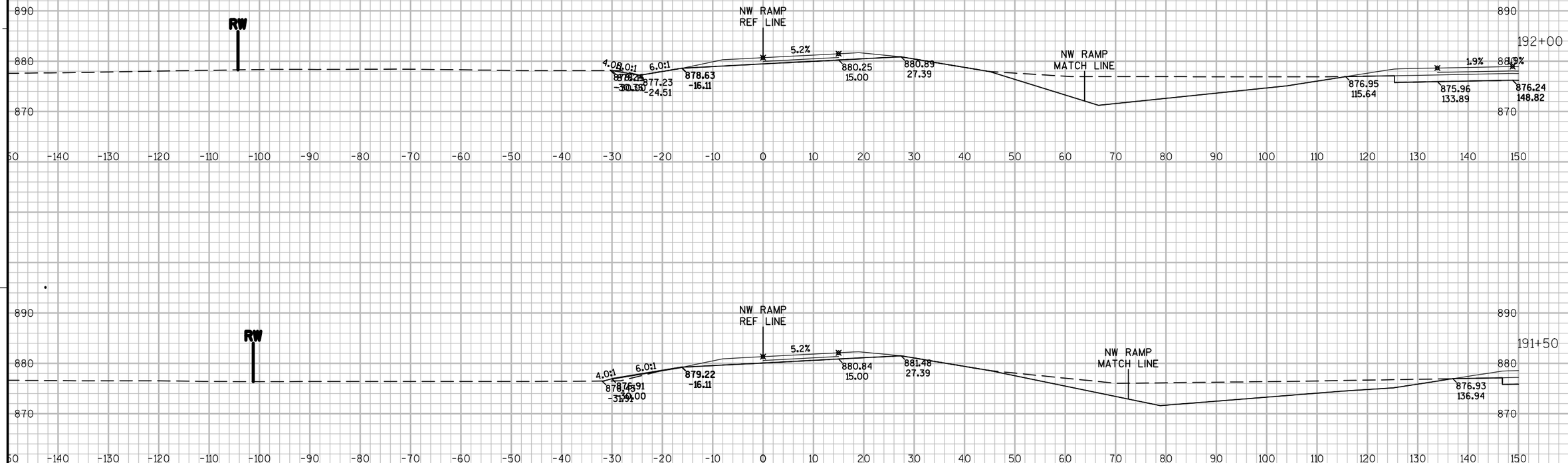
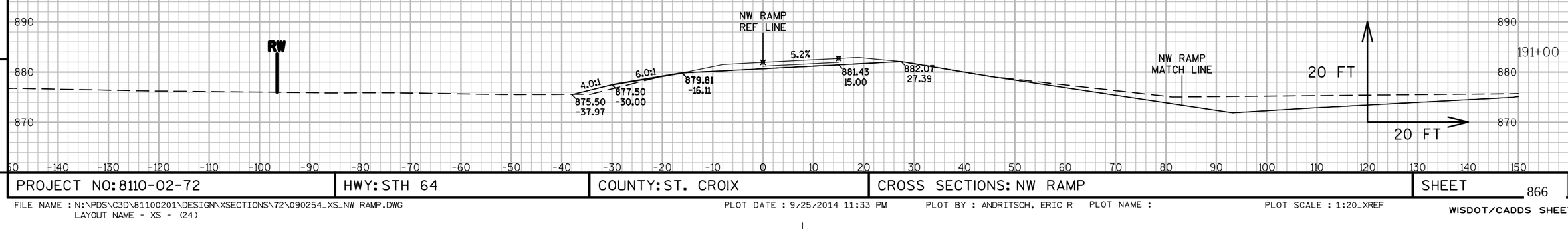
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 865	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (23)

PLOT DATE : 9/25/2014 11:33 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49





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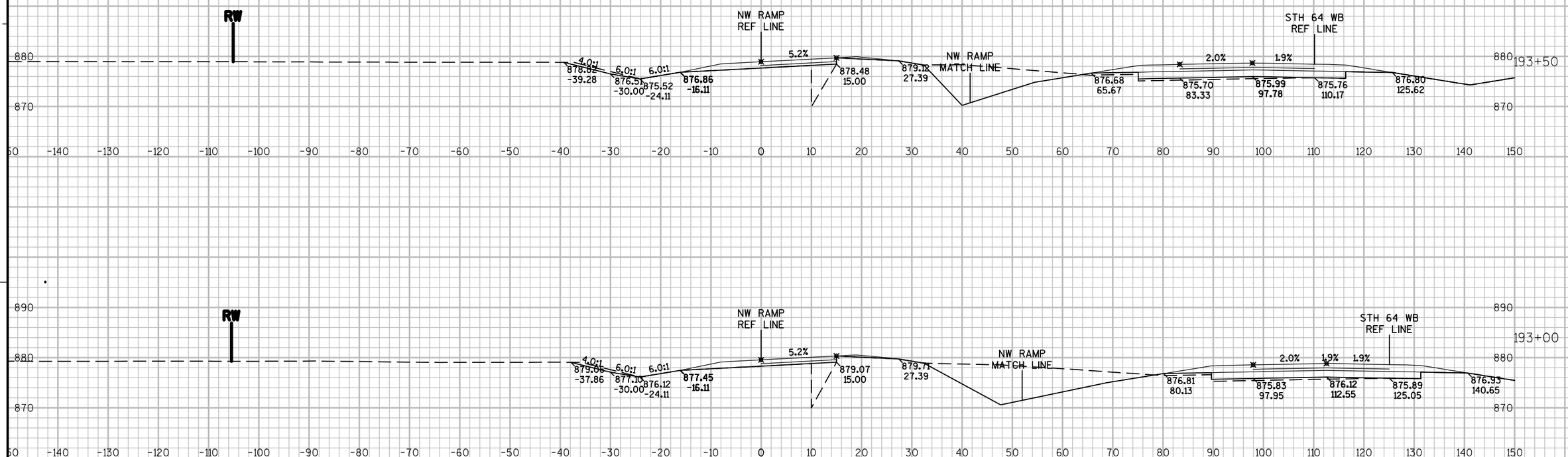
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 866	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (24)

PLOT DATE : 9/25/2014 11:33 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

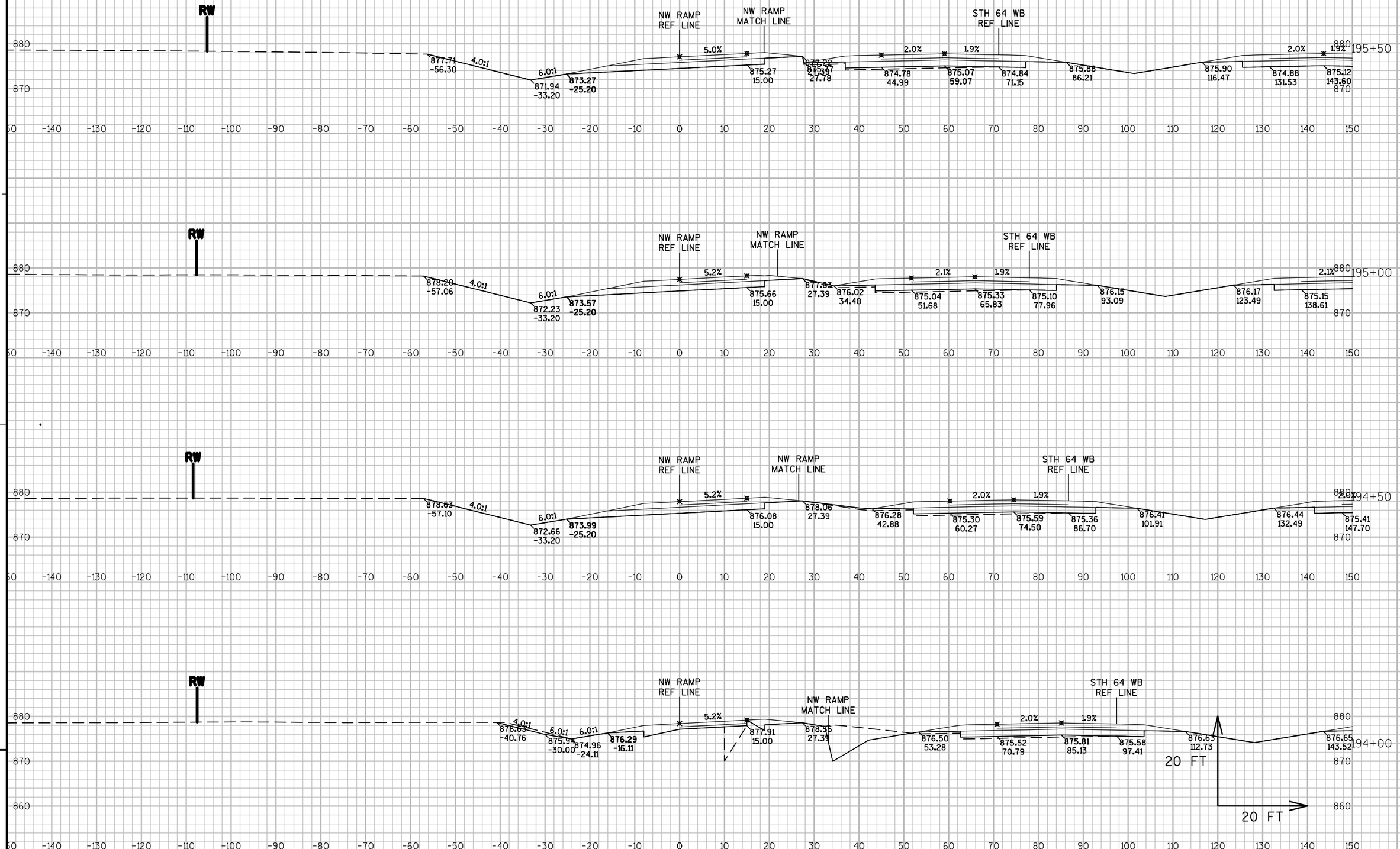


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 867	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (25)

PLOT DATE : 9/25/2014 11:33 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

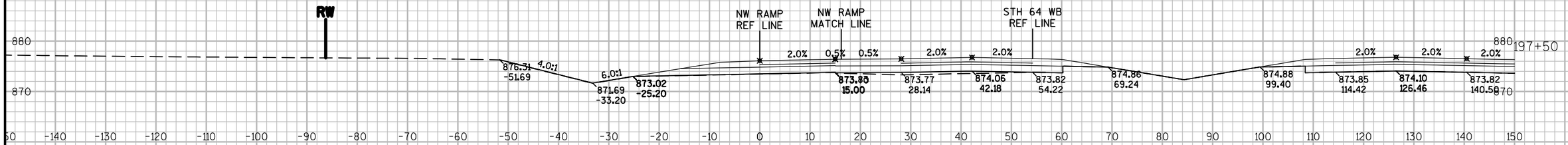


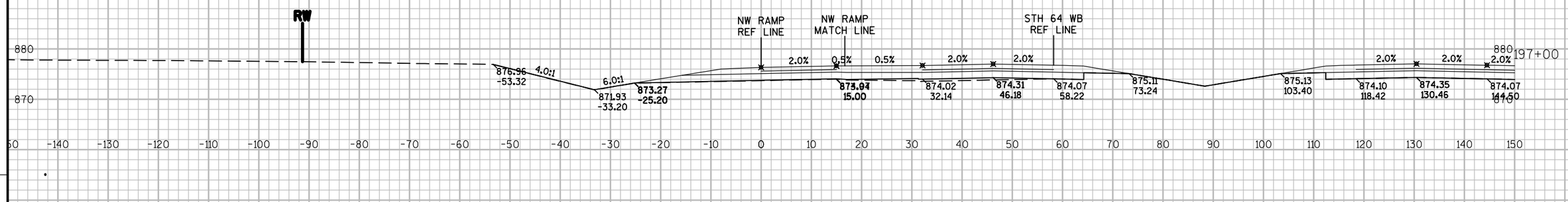
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 868	E

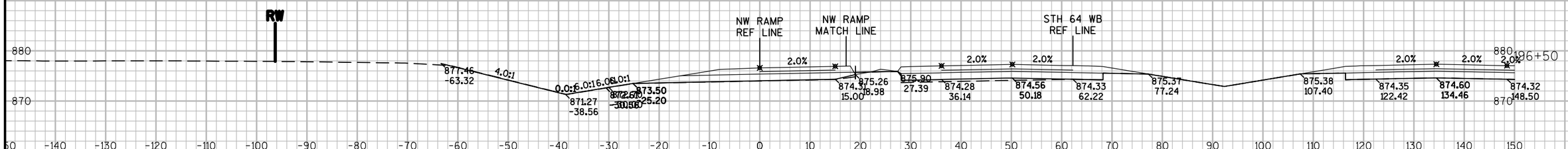
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (26)

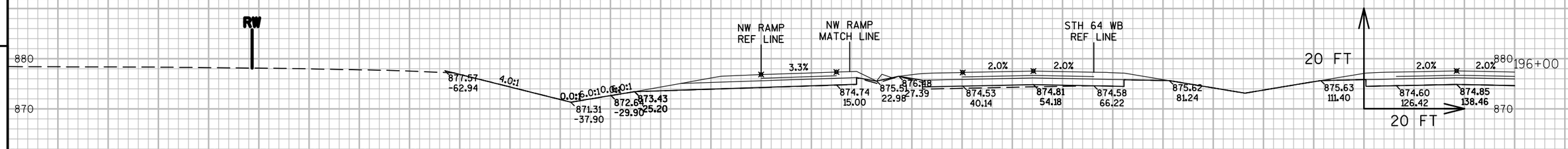
PLOT DATE : 9/25/2014 11:33 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49









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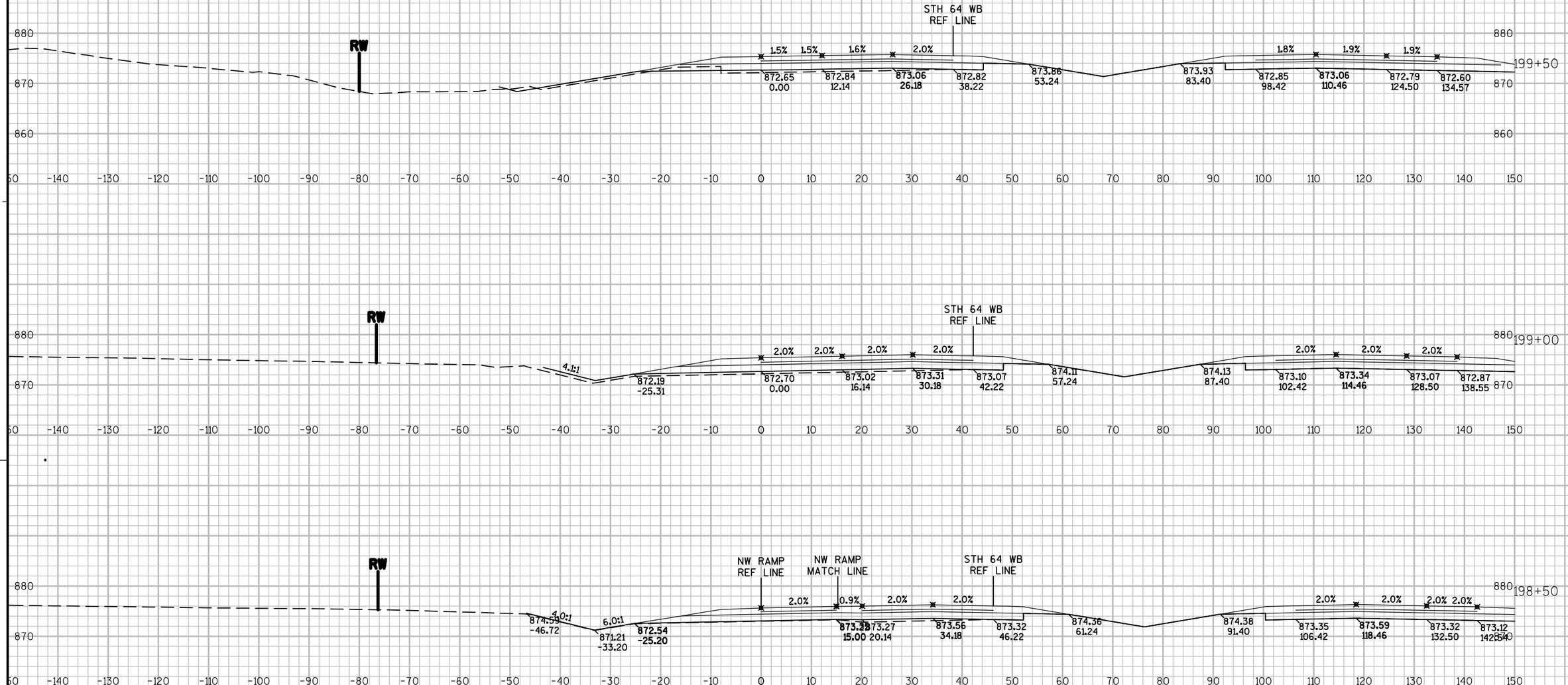
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 869	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (27)
PLOT DATE : 9/25/2014 11:34 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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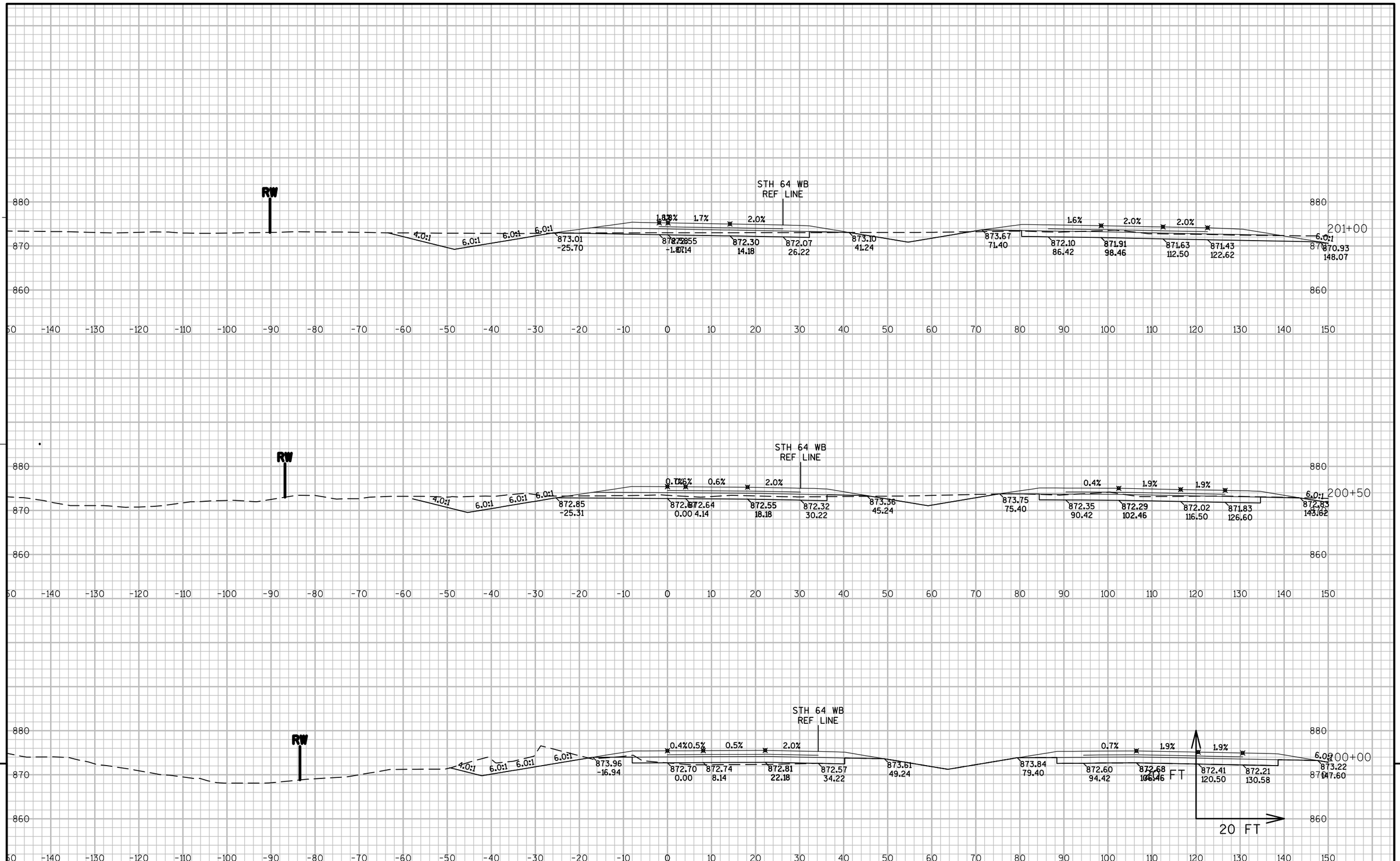
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 870	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (28)
PLOT DATE : 9/25/2014 11:34 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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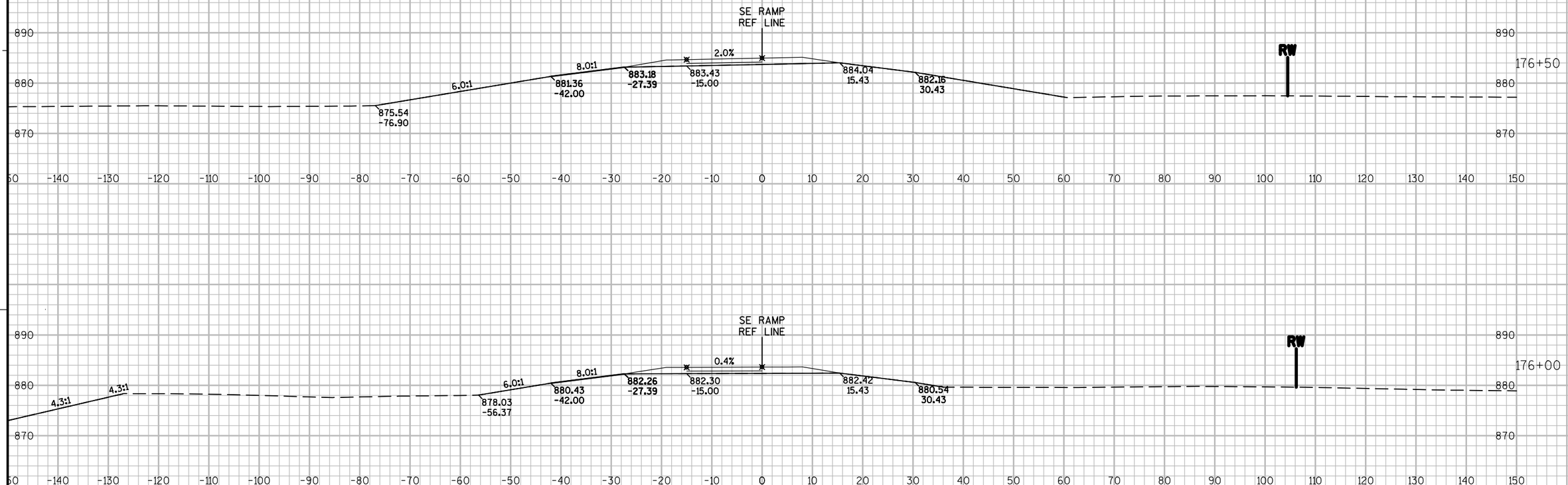
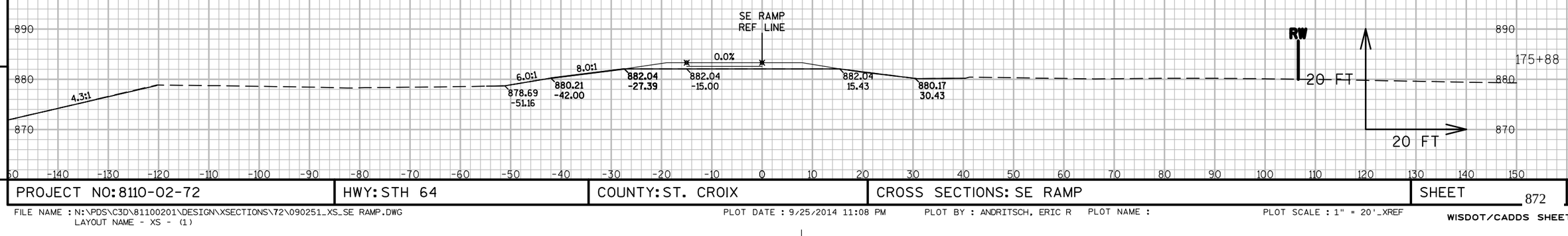
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: NW RAMP	SHEET 871	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090254_XS_NW RAMP.DWG
LAYOUT NAME - XS - (29)

PLOT DATE : 9/25/2014 11:34 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



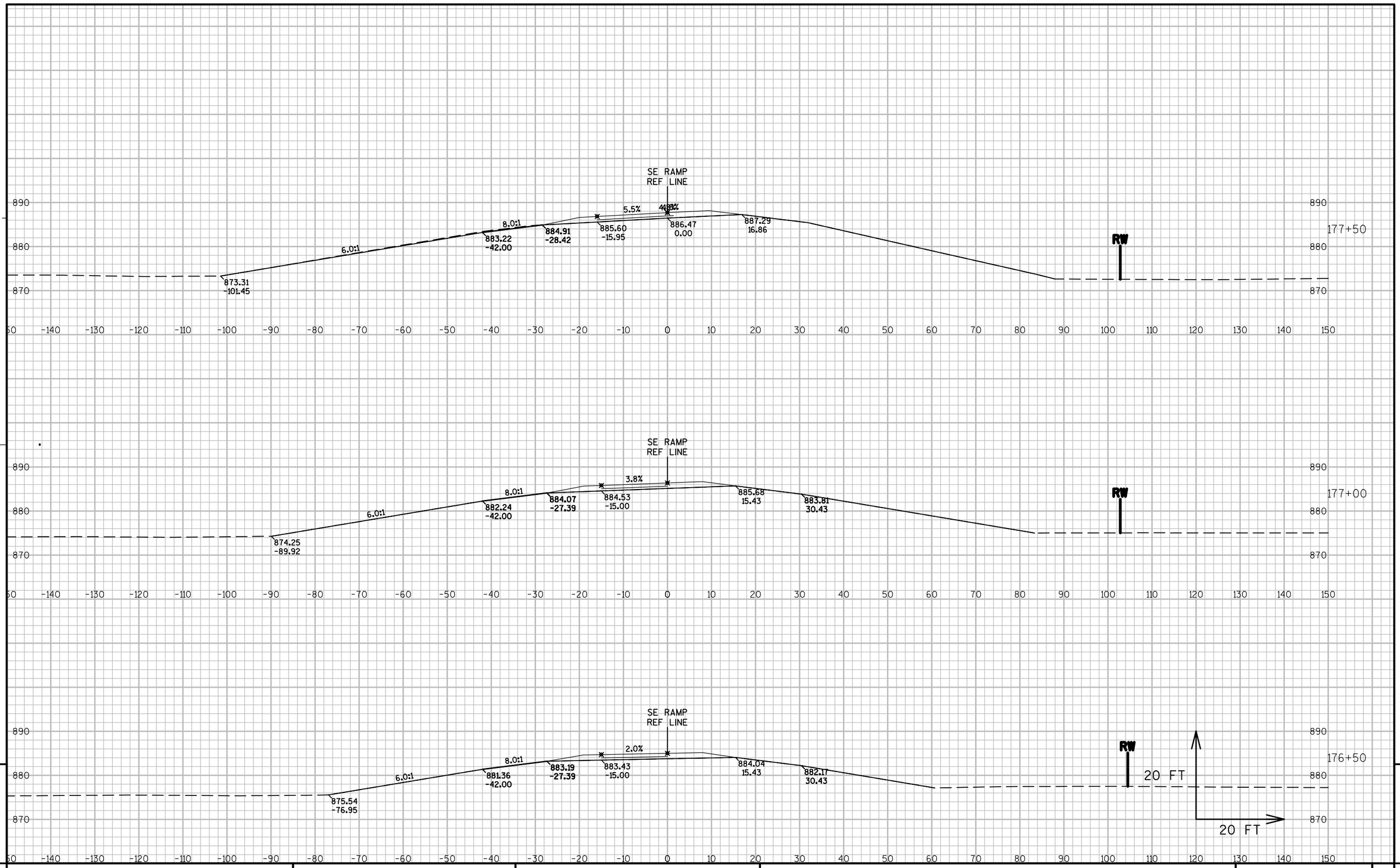


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SE RAMP	SHEET 872	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090251_XS_SE RAMP.DWG
LAYOUT NAME - XS - (1)

PLOT DATE : 9/25/2014 11:08 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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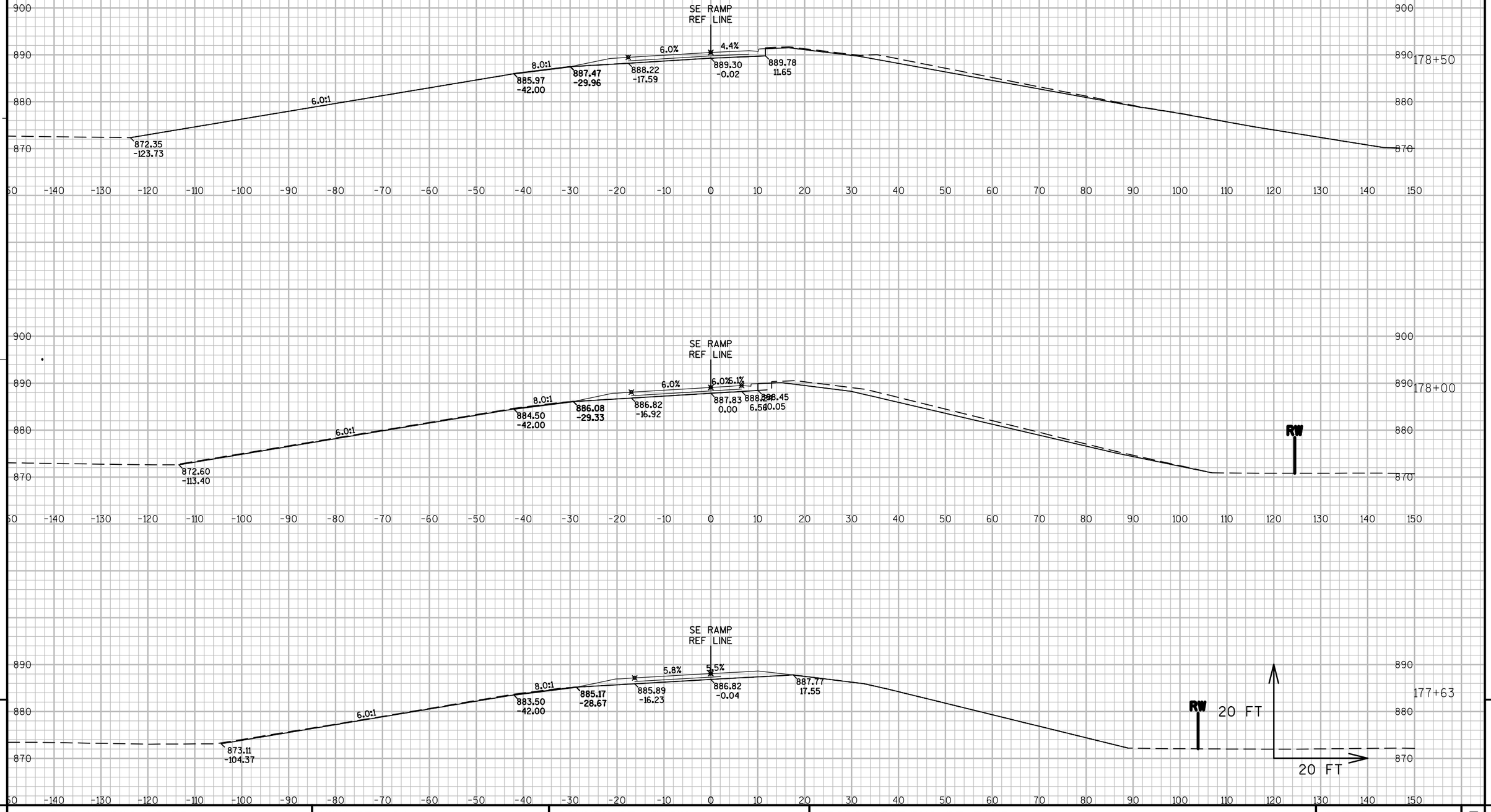
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SE RAMP	SHEET 873	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090251_XS_SE RAMP.DWG
LAYOUT NAME - XS - (2)

PLOT DATE : 9/25/2014 11:08 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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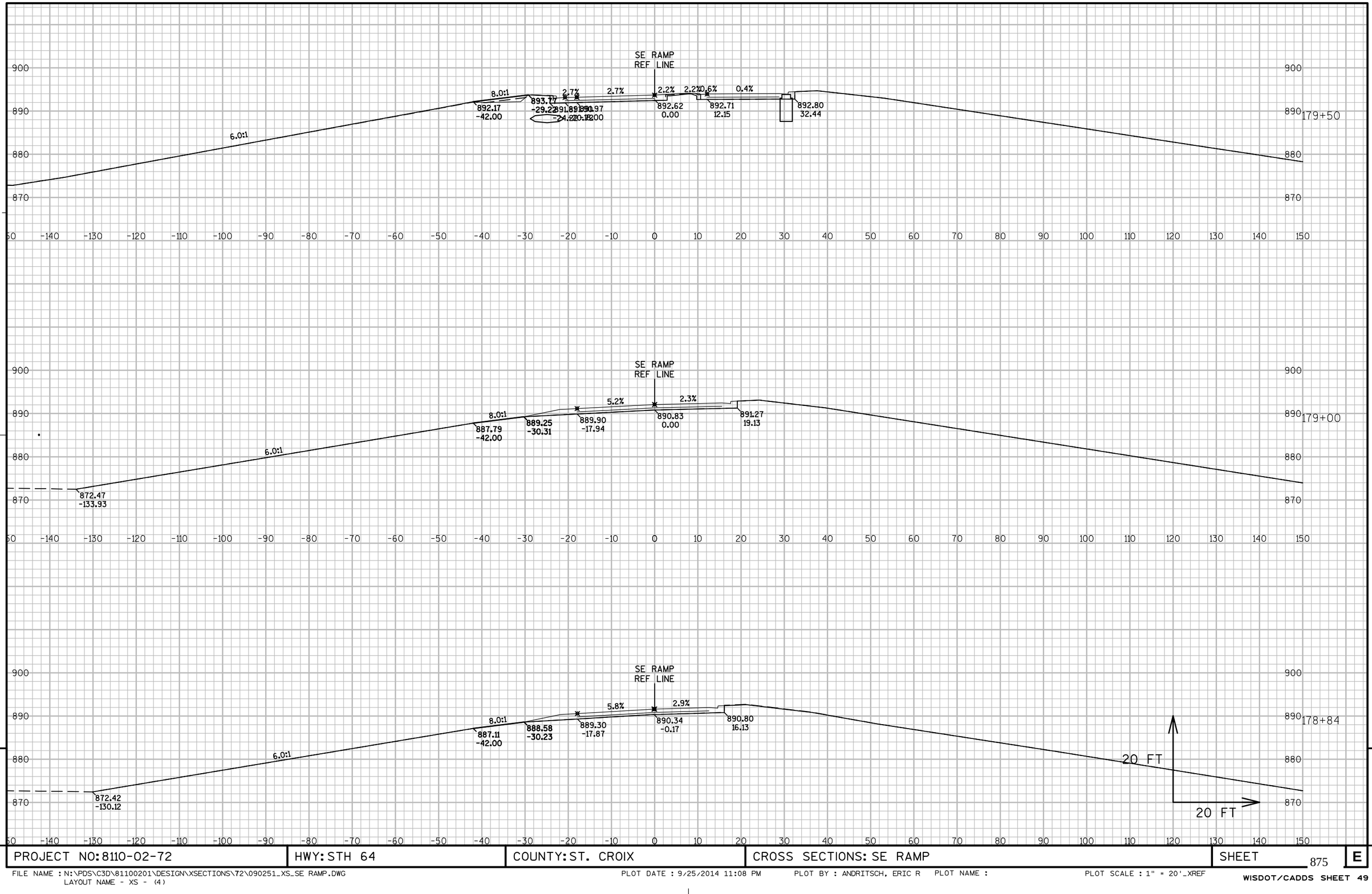
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SE RAMP	SHEET 874	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090251_XS_SE RAMP.DWG
LAYOUT NAME - XS - (3)

PLOT DATE : 9/25/2014 11:08 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

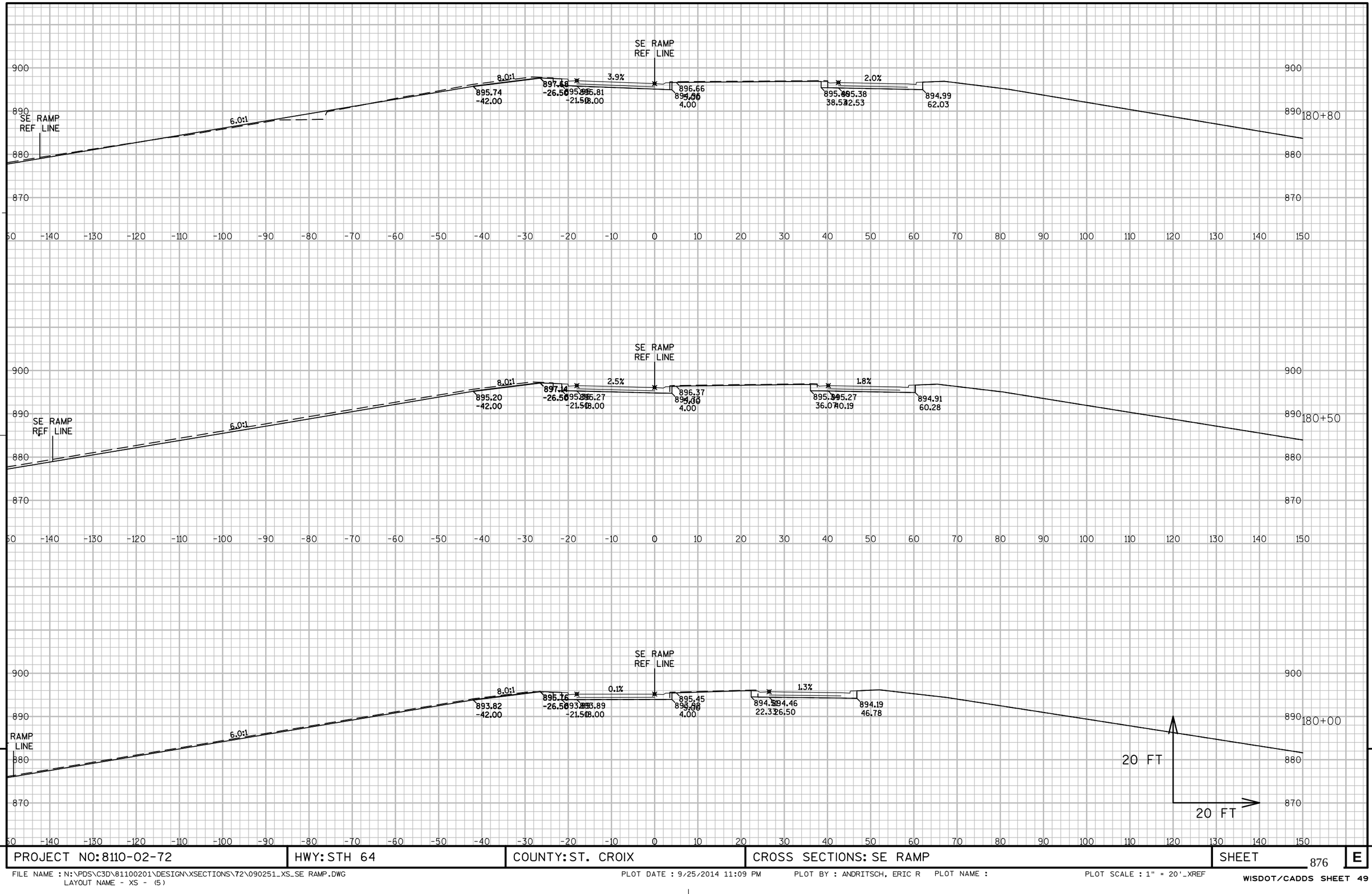


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SE RAMP	SHEET 875	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090251_XS_SE RAMP.DWG
LAYOUT NAME - XS - (4)

PLOT DATE : 9/25/2014 11:08 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SE RAMP	SHEET 876	E

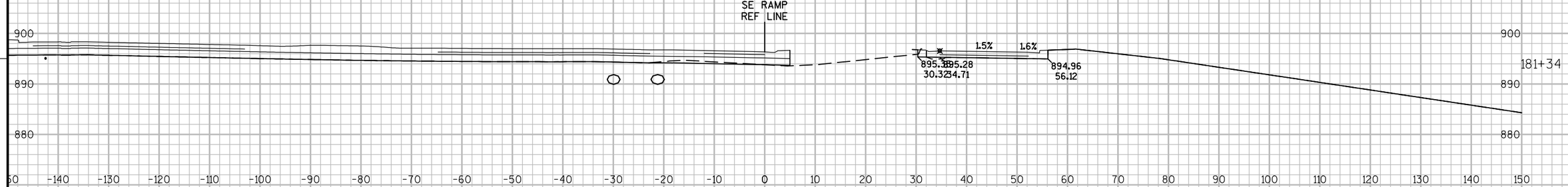
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090251_XS_SE RAMP.DWG
LAYOUT NAME - XS - (5)

PLOT DATE : 9/25/2014 11:09 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

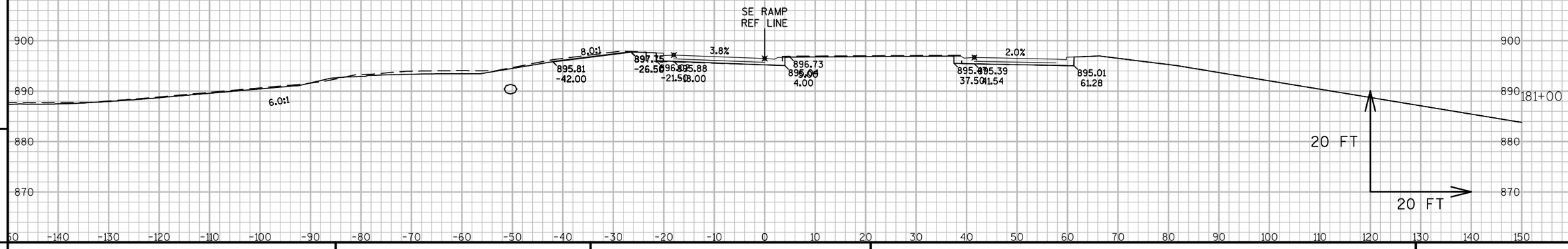
WISDOT/CADDS SHEET 49

SE RAMP
REF LINE

SE RAMP
REF LINE



SE RAMP
REF LINE



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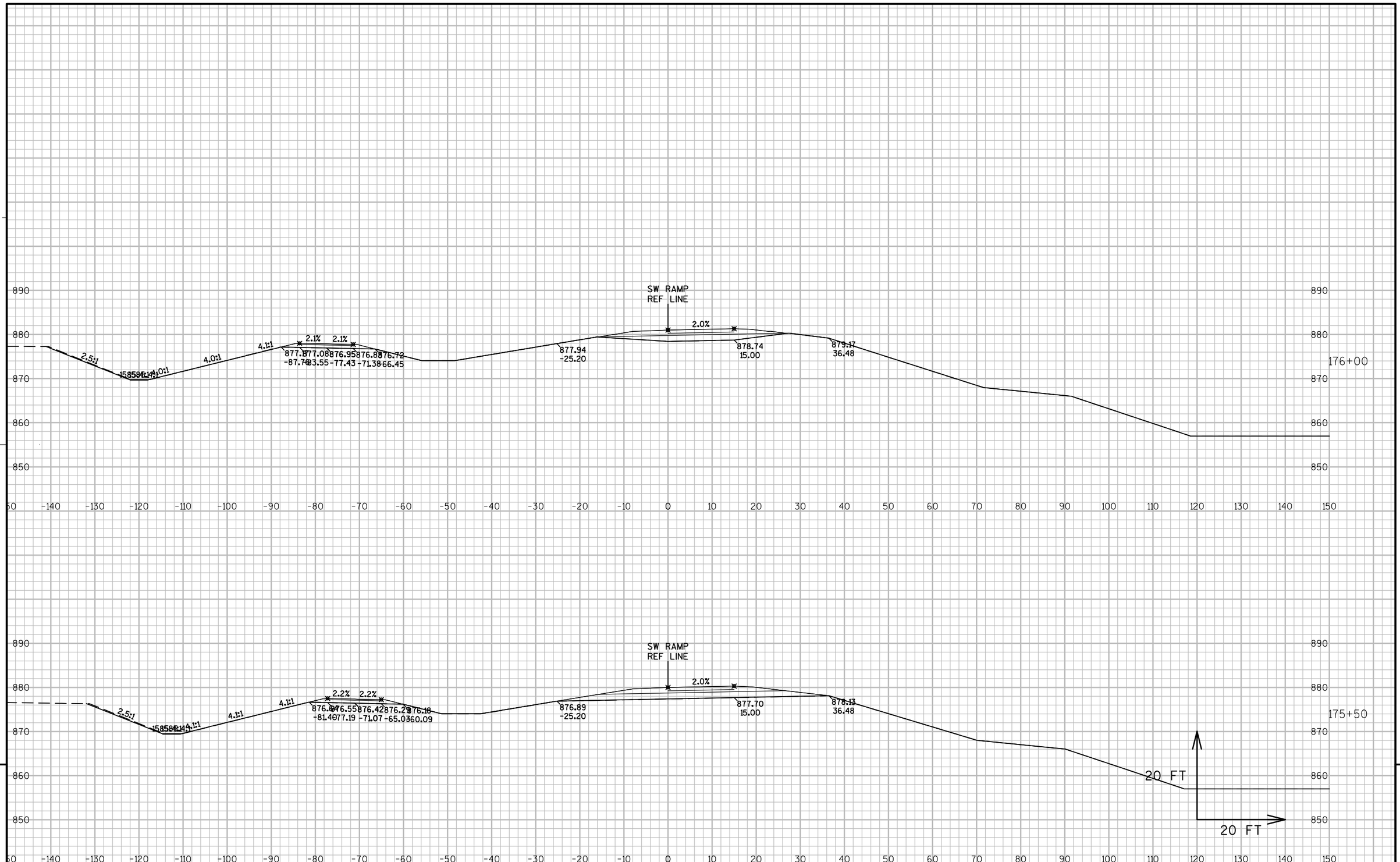
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SE RAMP	SHEET 877	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090251_XS_SE RAMP.DWG
LAYOUT NAME - XS - (6)

PLOT DATE : 9/25/2014 11:09 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

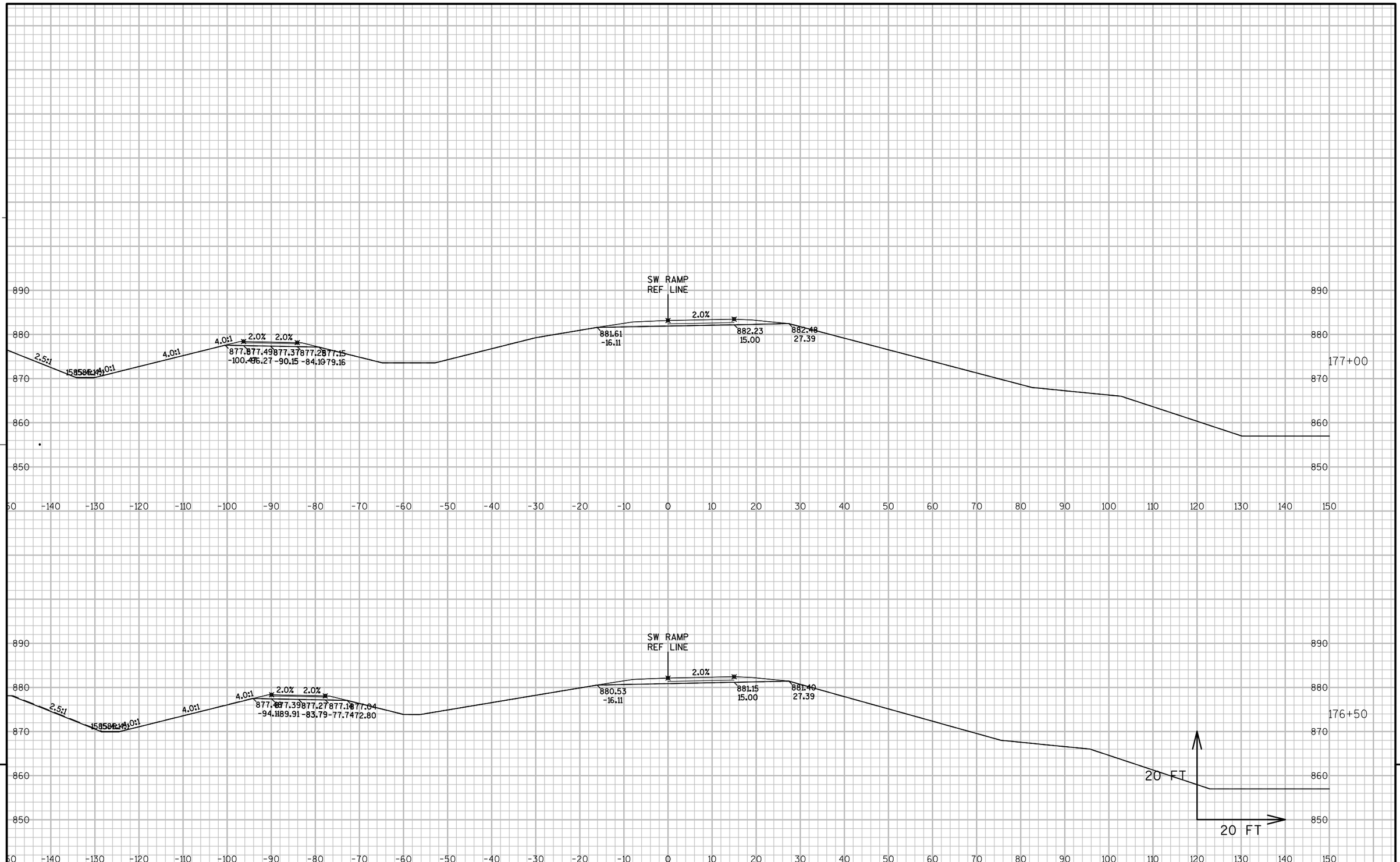


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SW RAMP	SHEET 878	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090252_XS_SW RAMP.DWG
LAYOUT NAME - XST - (1)

PLOT DATE : 9/25/2014 11:12 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

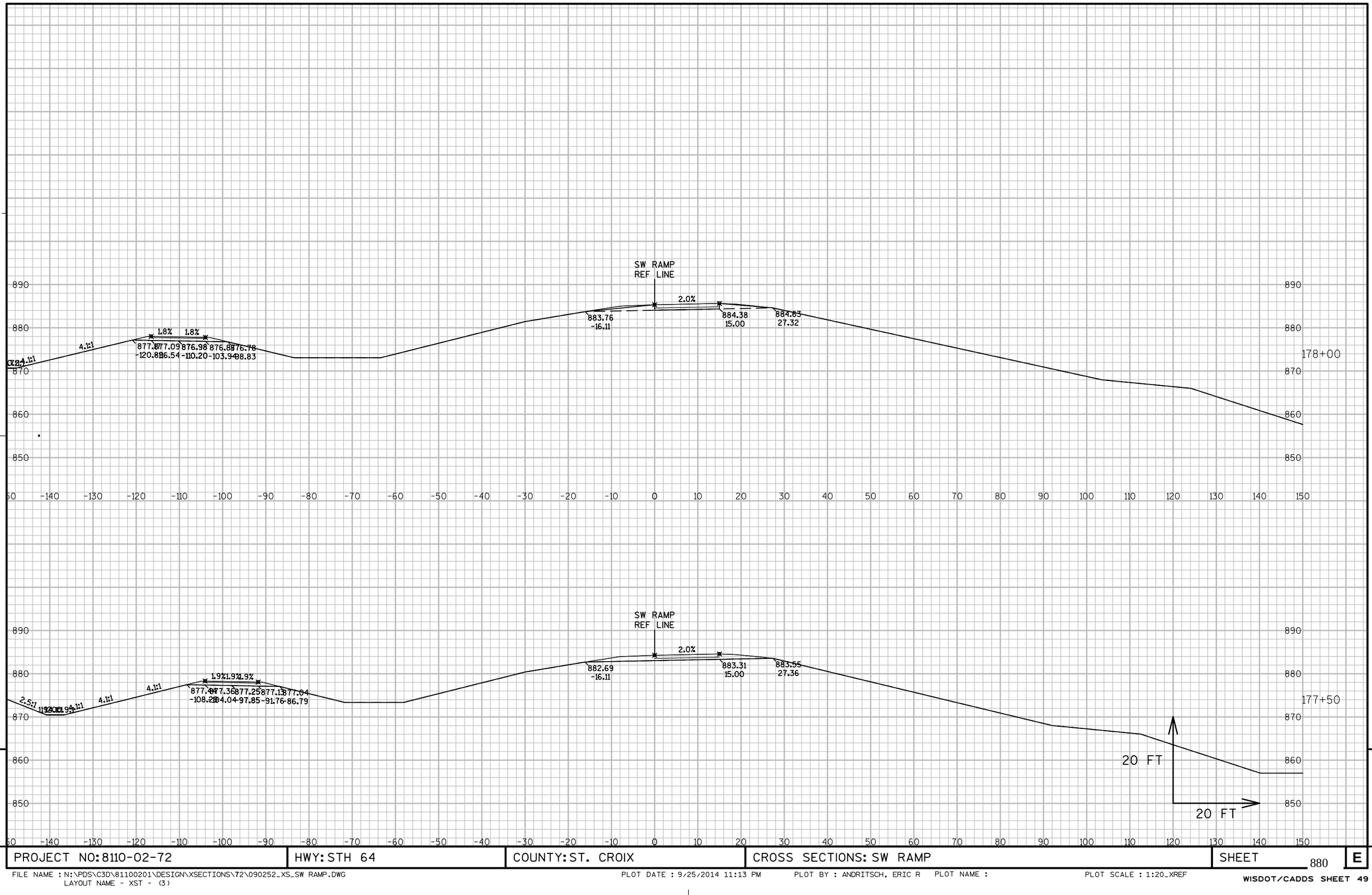


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SW RAMP	SHEET 879 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090252_XS_SW RAMP.DWG
LAYOUT NAME - XST - (2)

PLOT DATE : 9/25/2014 11:13 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

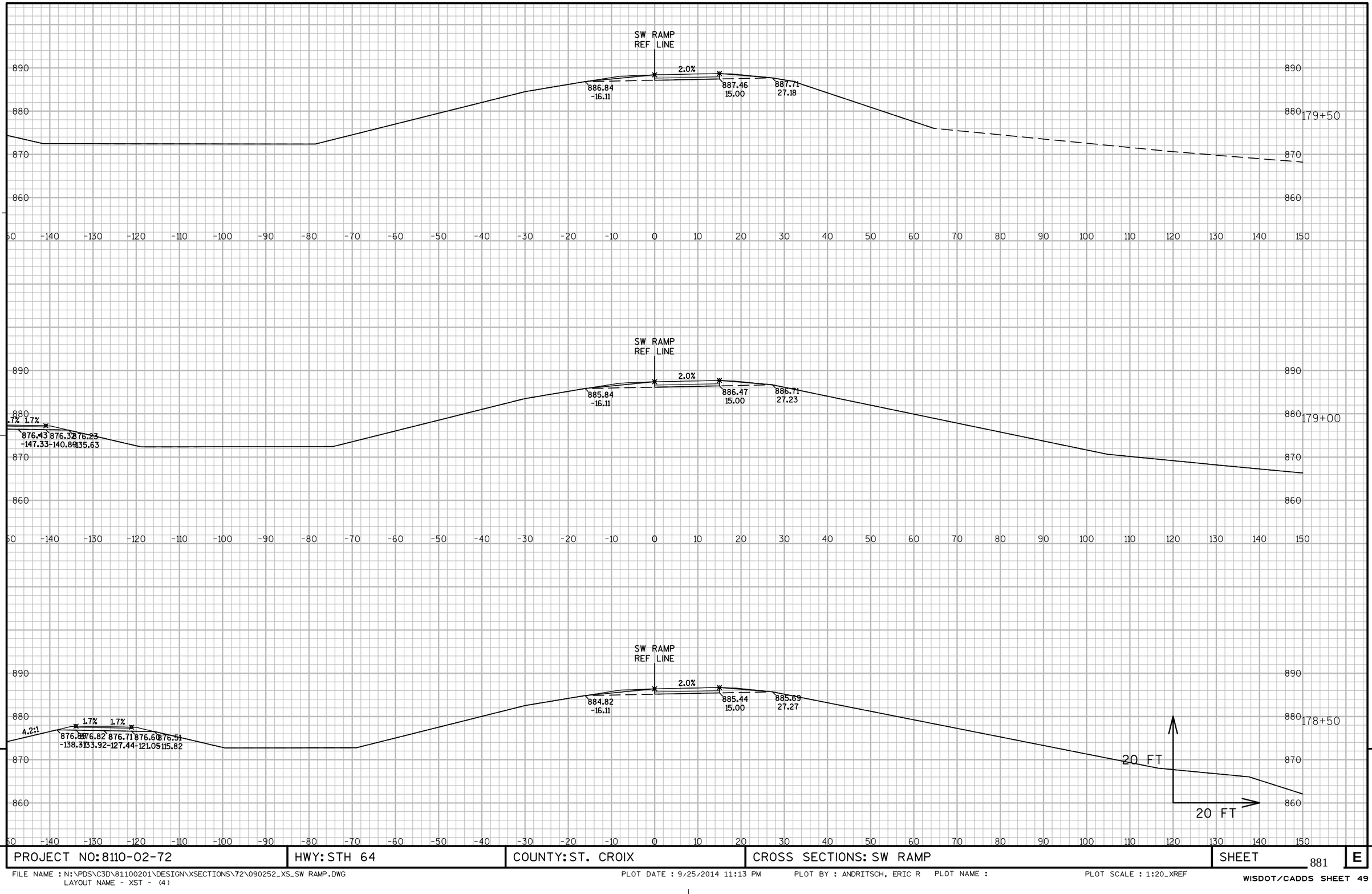
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SW RAMP	SHEET 880	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090252_XS_SW RAMP.DWG
LAYOUT NAME - XST - (3)

PLOT DATE : 9/25/2014 11:13 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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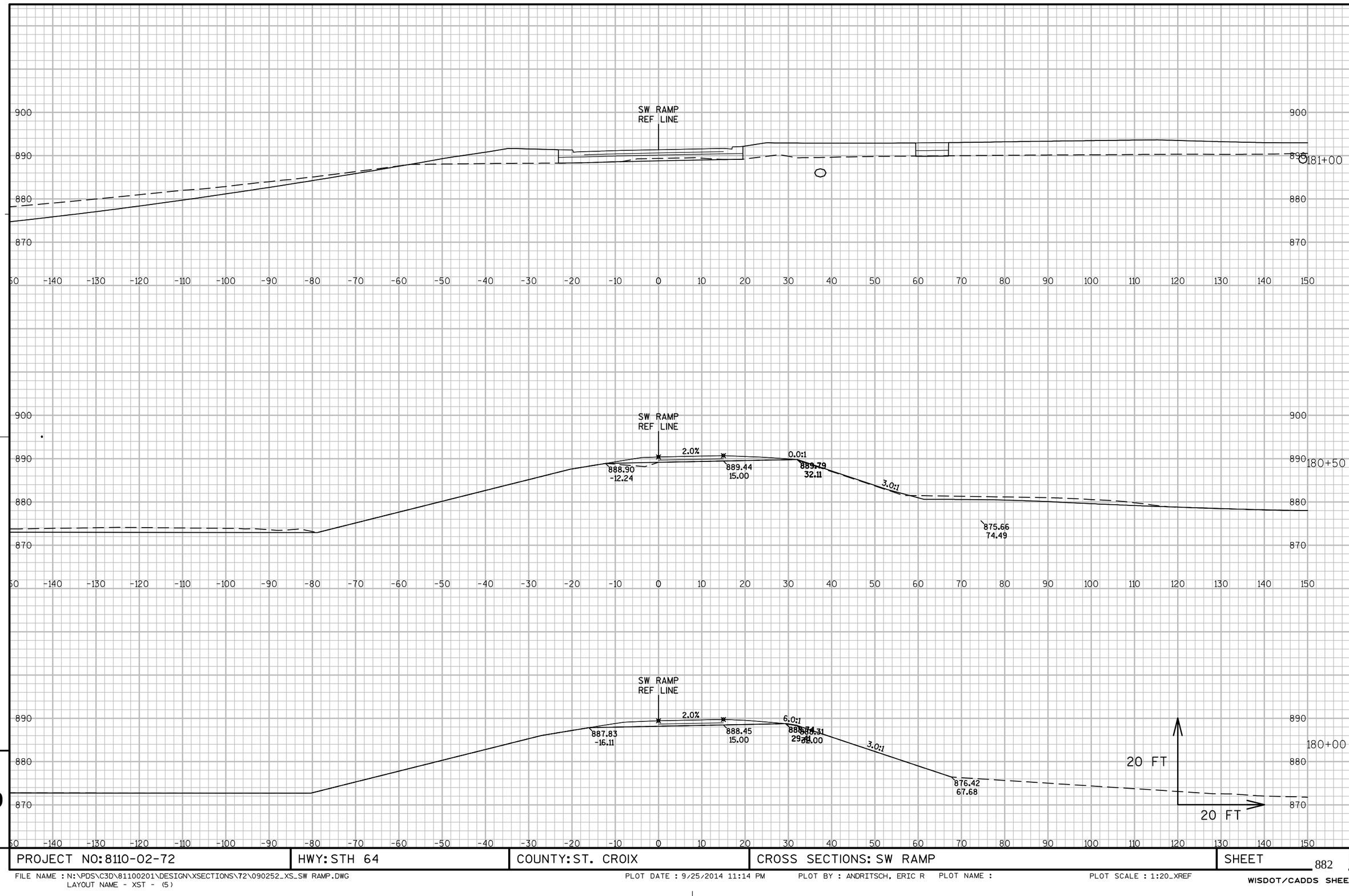
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SW RAMP	SHEET 881	E



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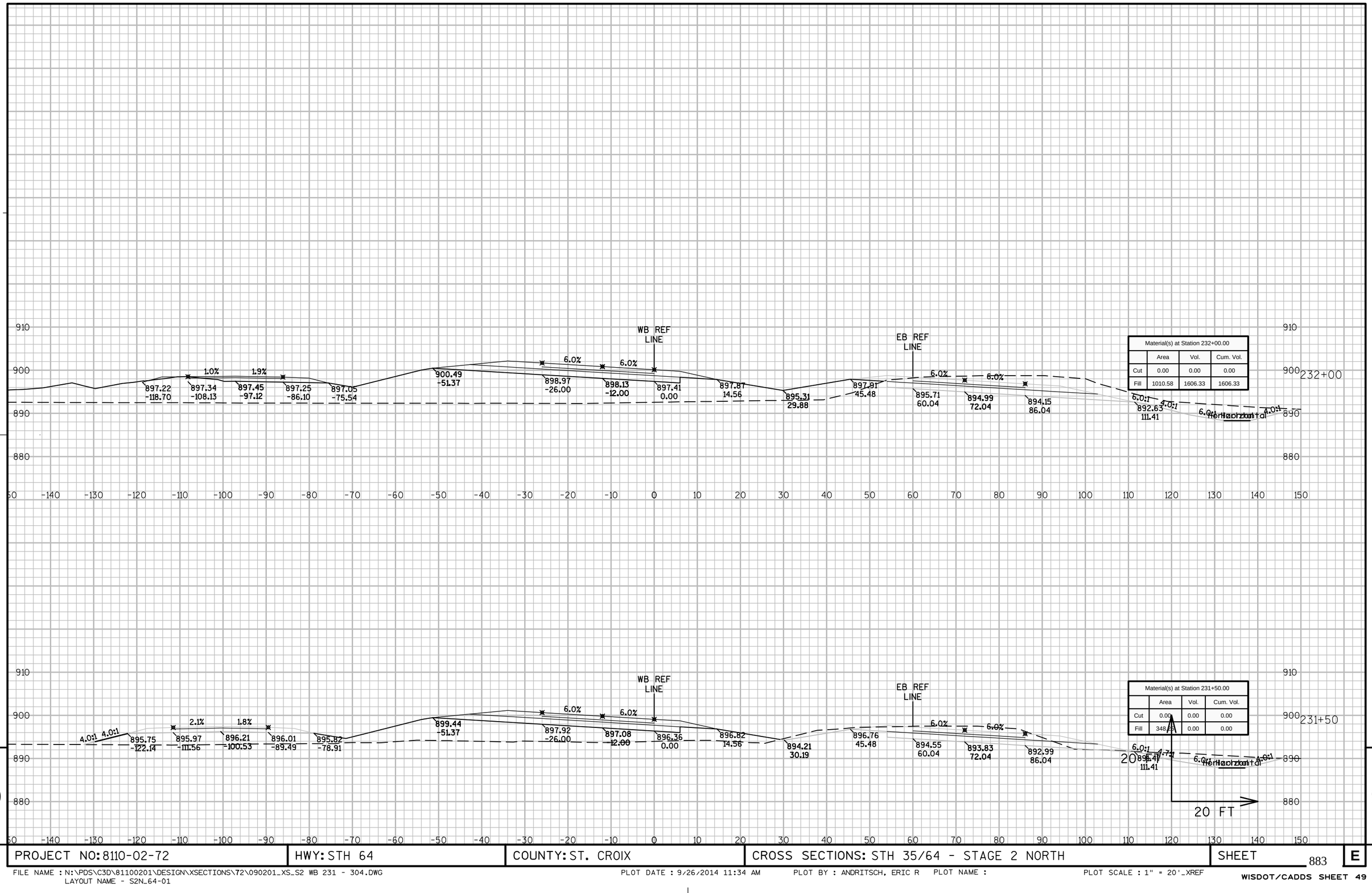
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SW RAMP	SHEET 882	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090252_XS_SW RAMP.DWG
LAYOUT NAME - XST - (5)

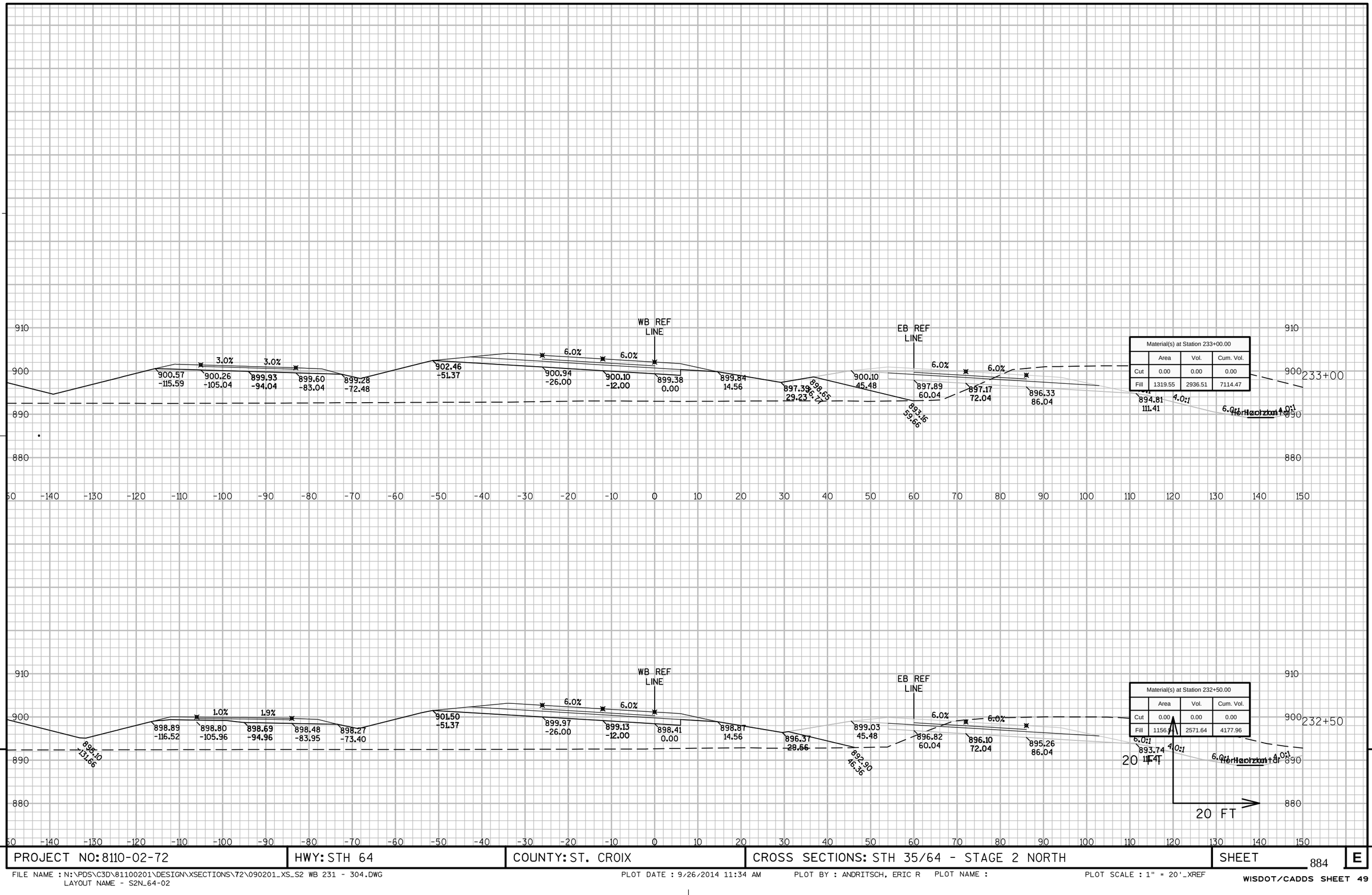
PLOT DATE : 9/25/2014 11:14 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 883	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-01

PLOT DATE : 9/26/2014 11:34 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

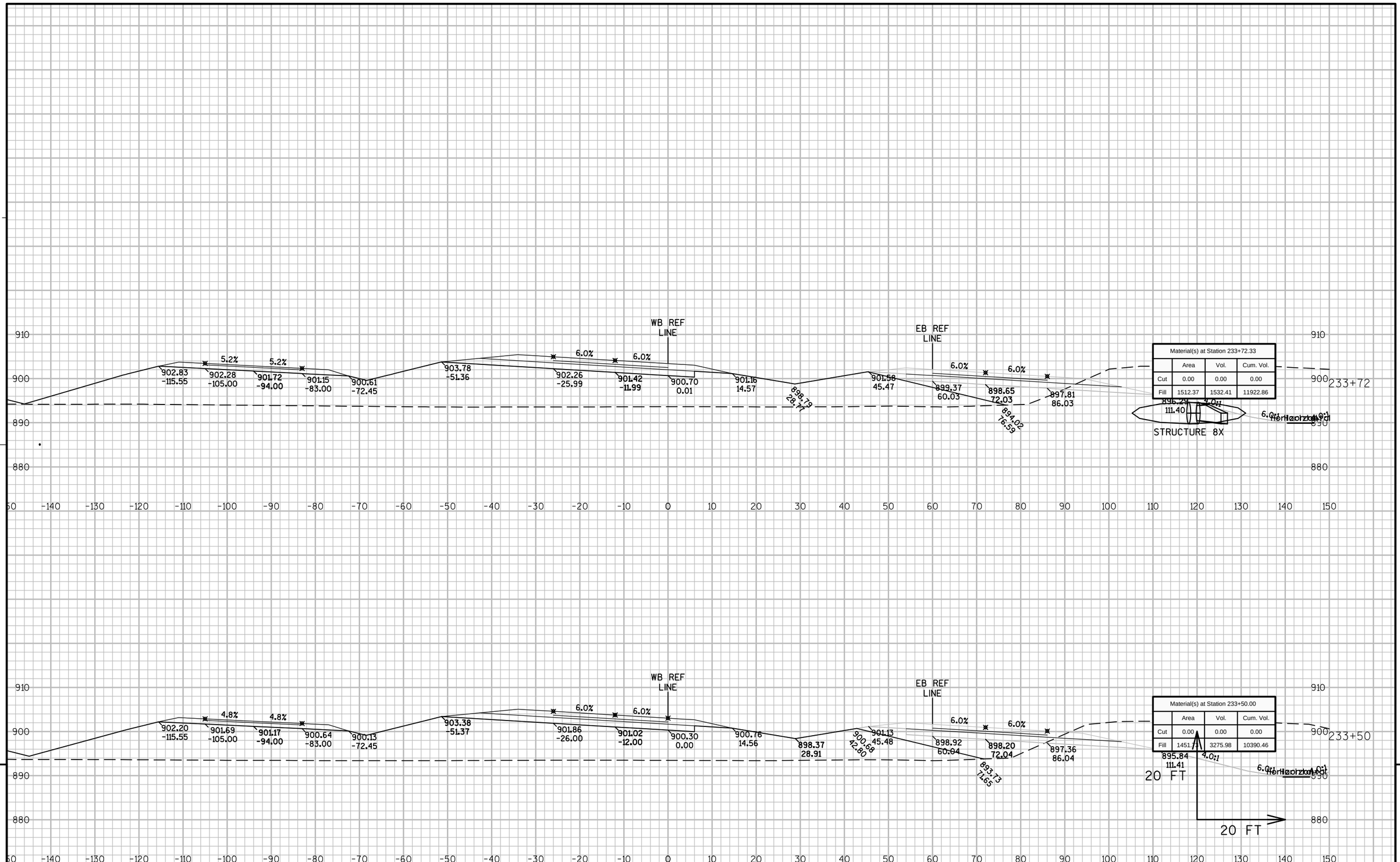


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 884	E

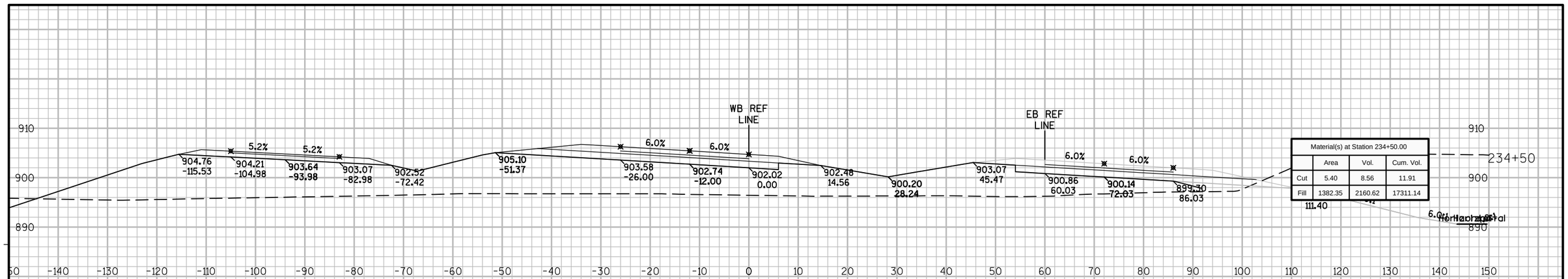
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-02

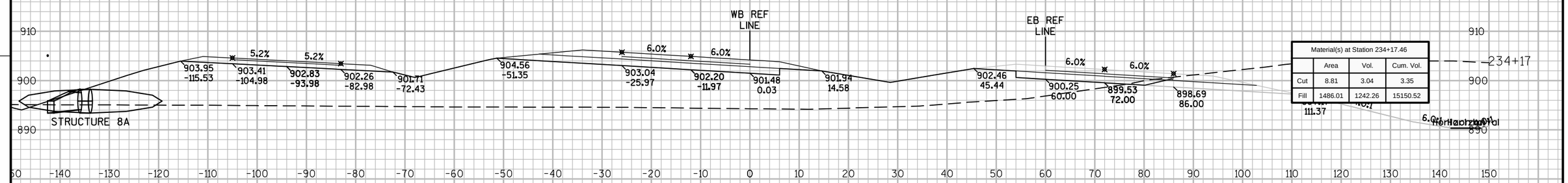
PLOT DATE : 9/26/2014 11:34 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

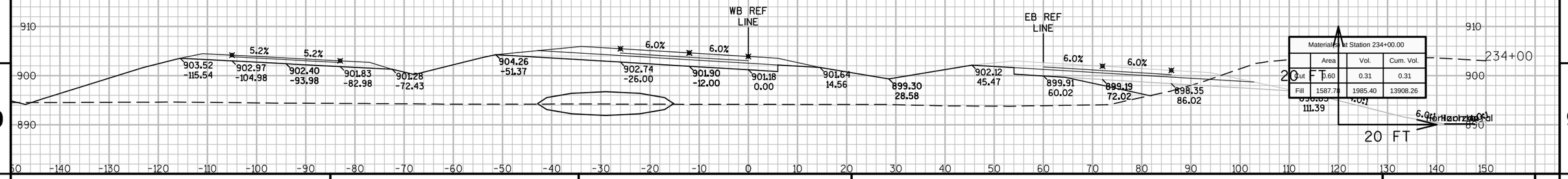
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 885 E



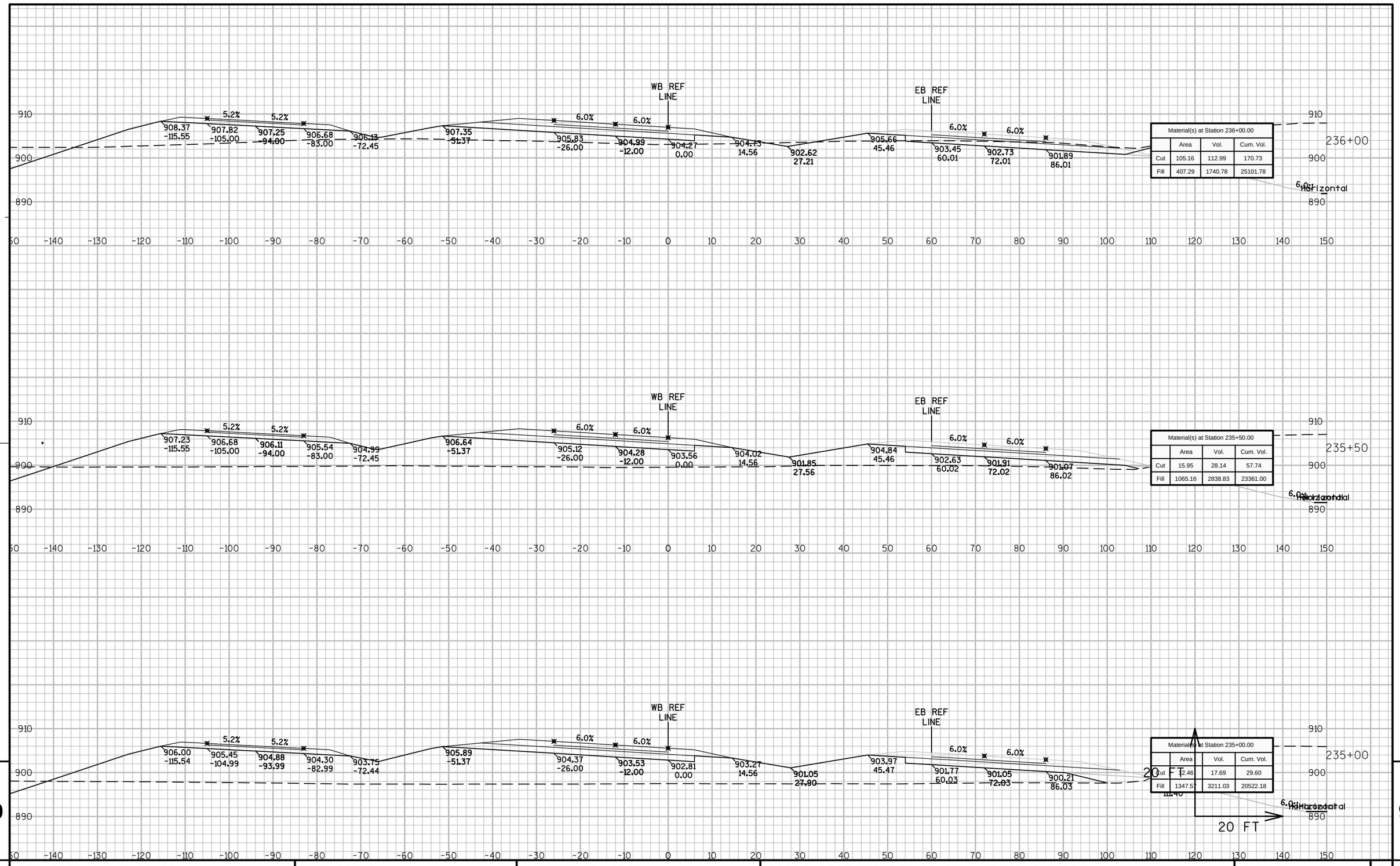




9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 886	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-04
PLOT DATE : 9/26/2014 11:35 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

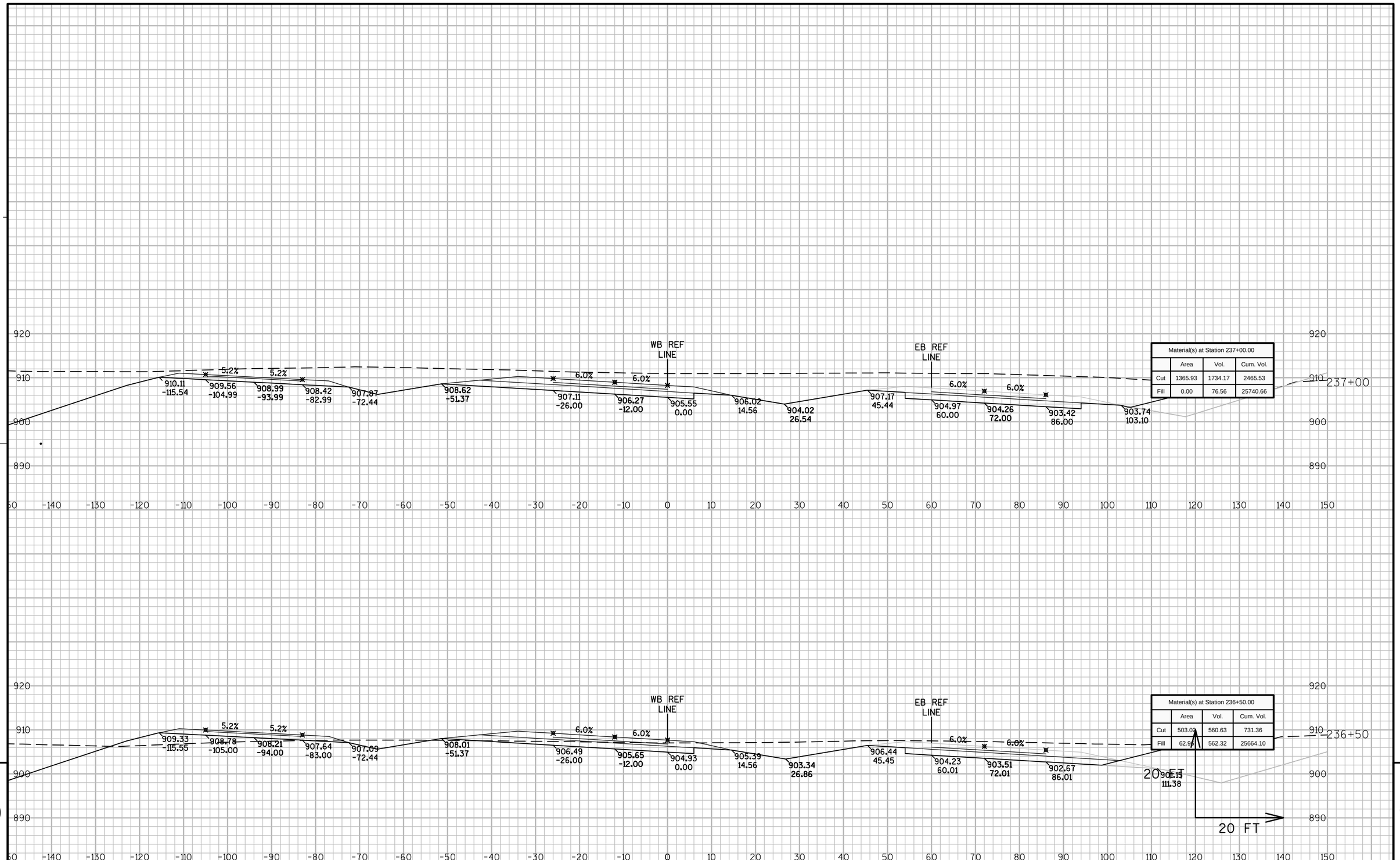


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 887	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-05

PLOT DATE : 9/26/2014 11:36 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



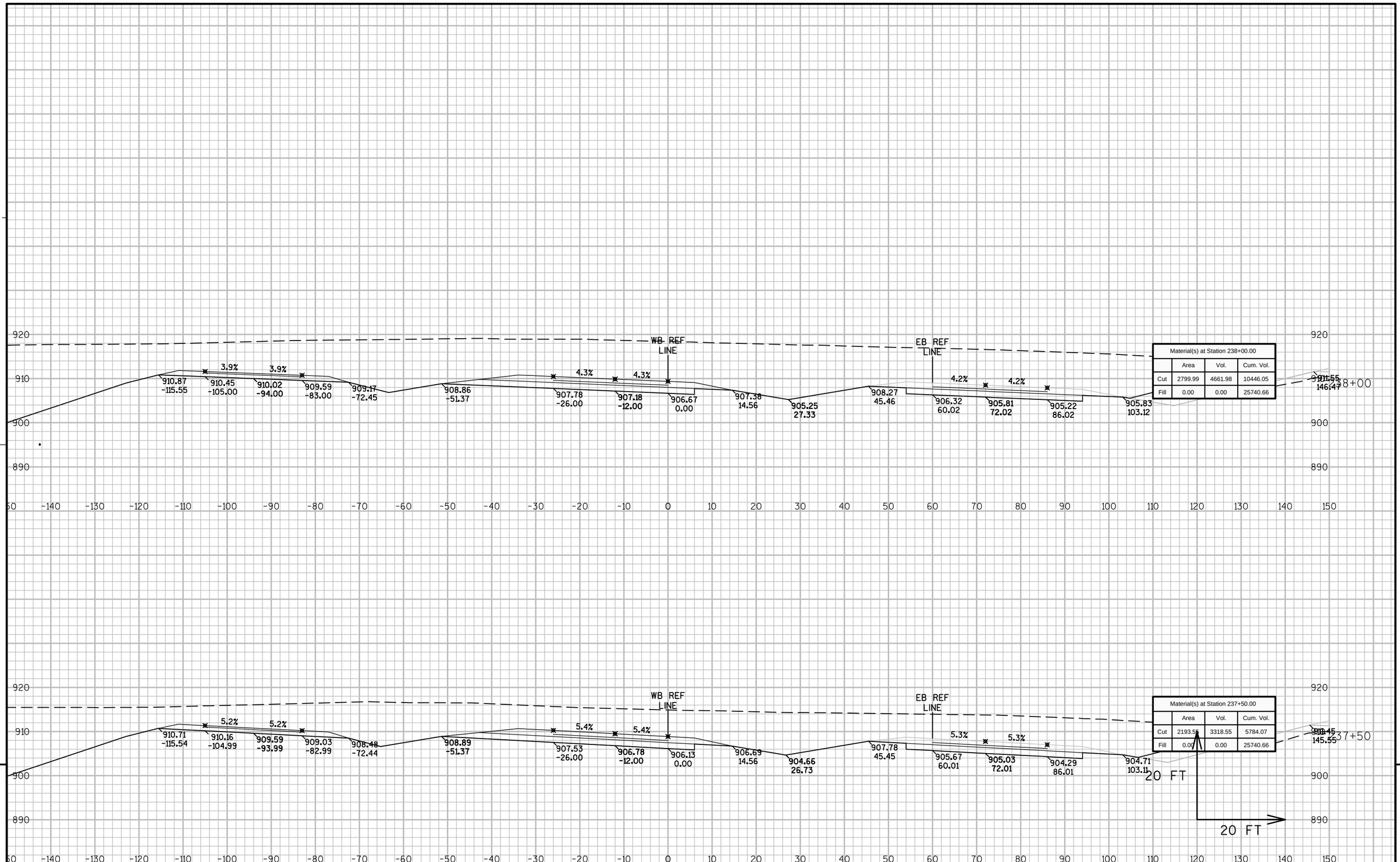
9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 888	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-06

PLOT DATE : 9/26/2014 11:36 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



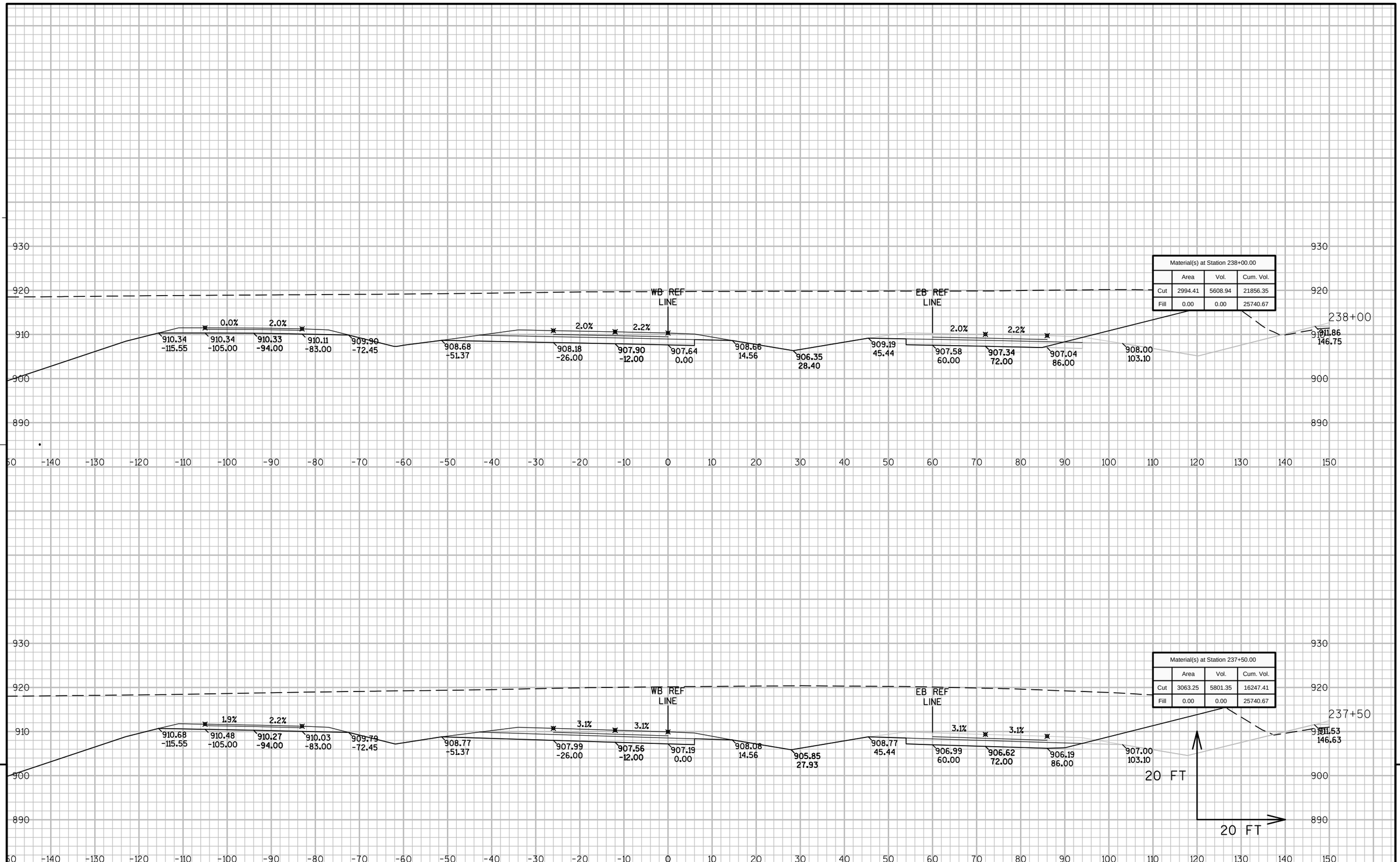
9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 889	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-07

PLOT DATE : 9/26/2014 11:37 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

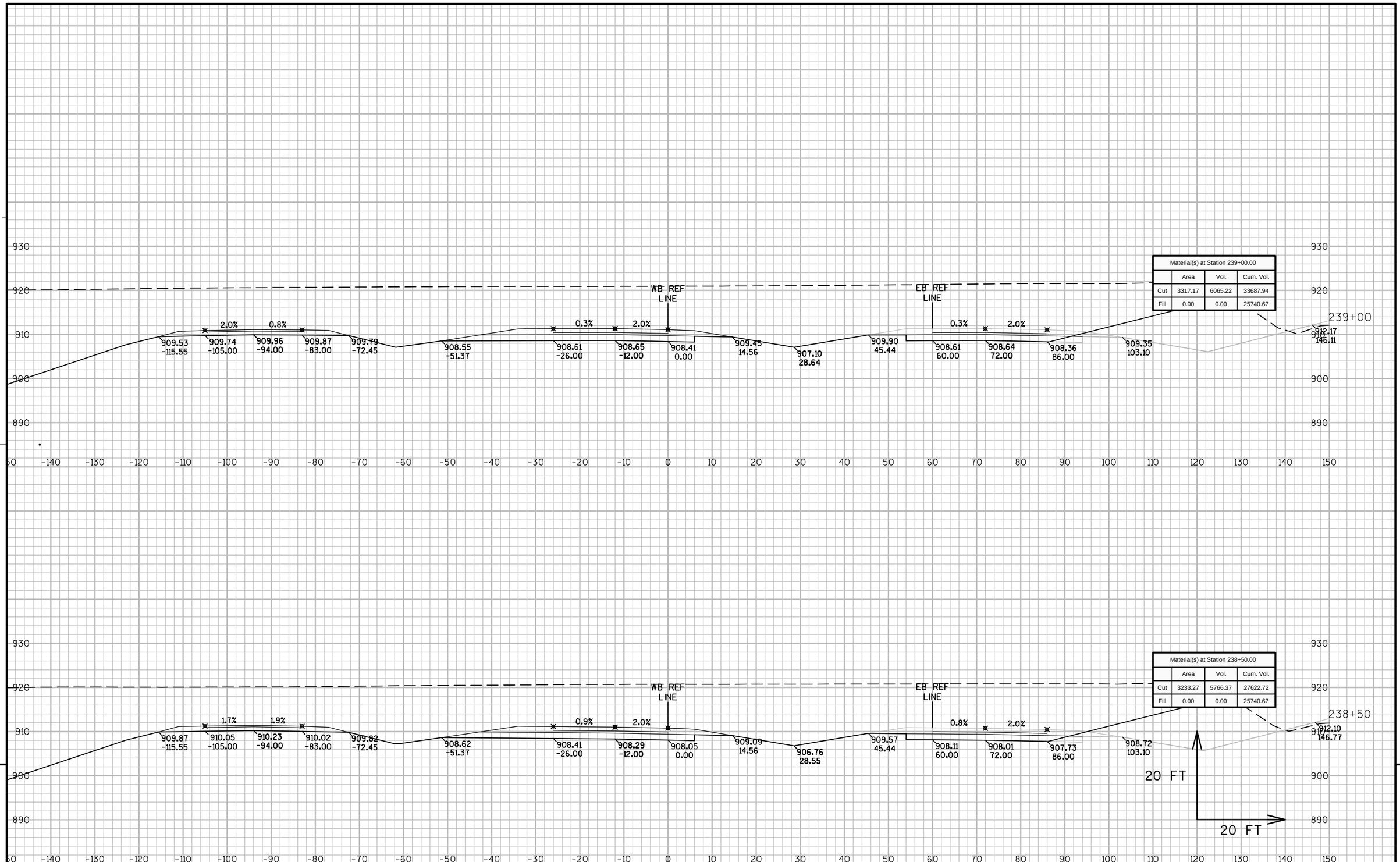


9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 890 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-08

PLOT DATE : 9/26/2014 11:37 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



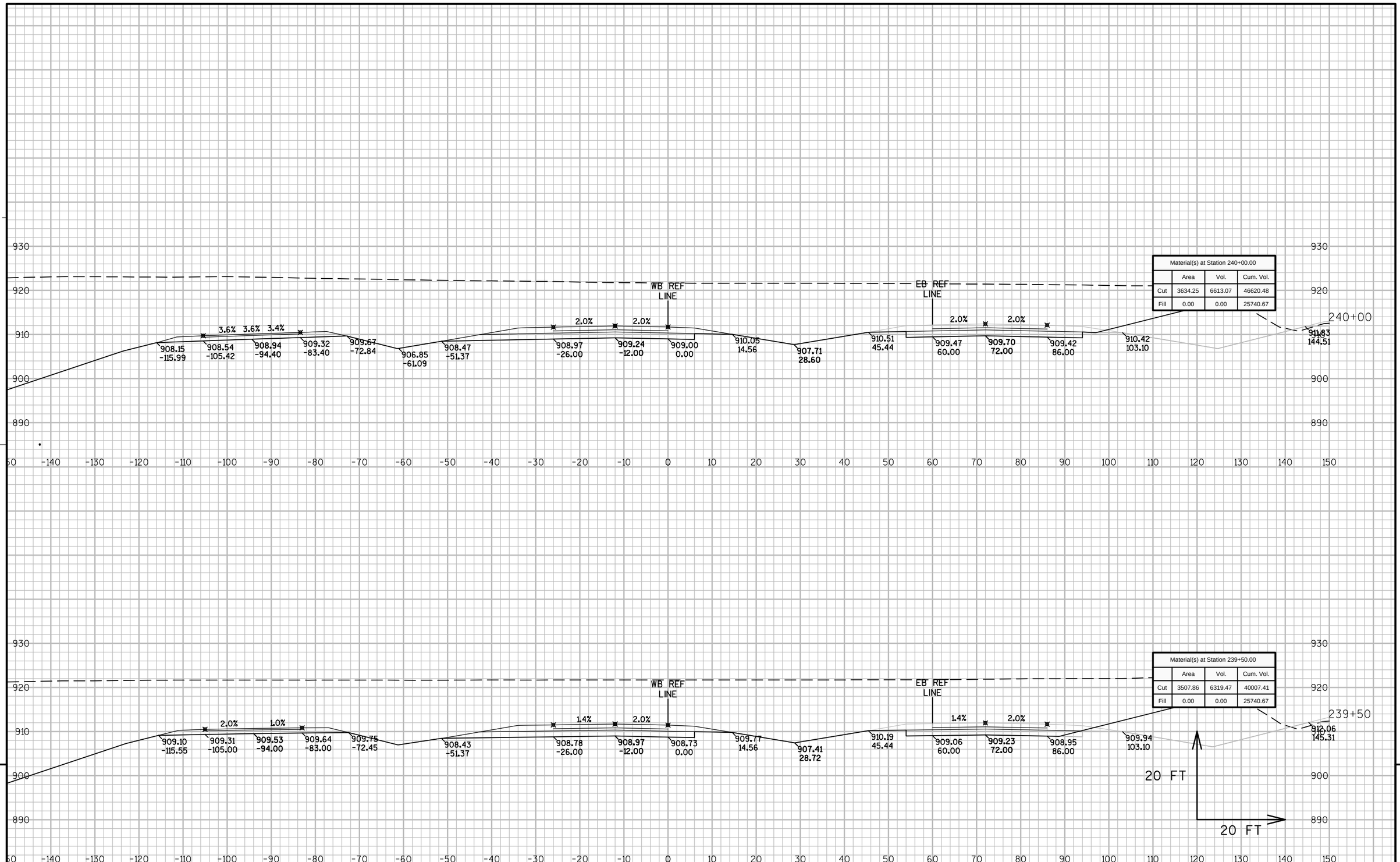
9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 891 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-09

PLOT DATE : 9/26/2014 11:38 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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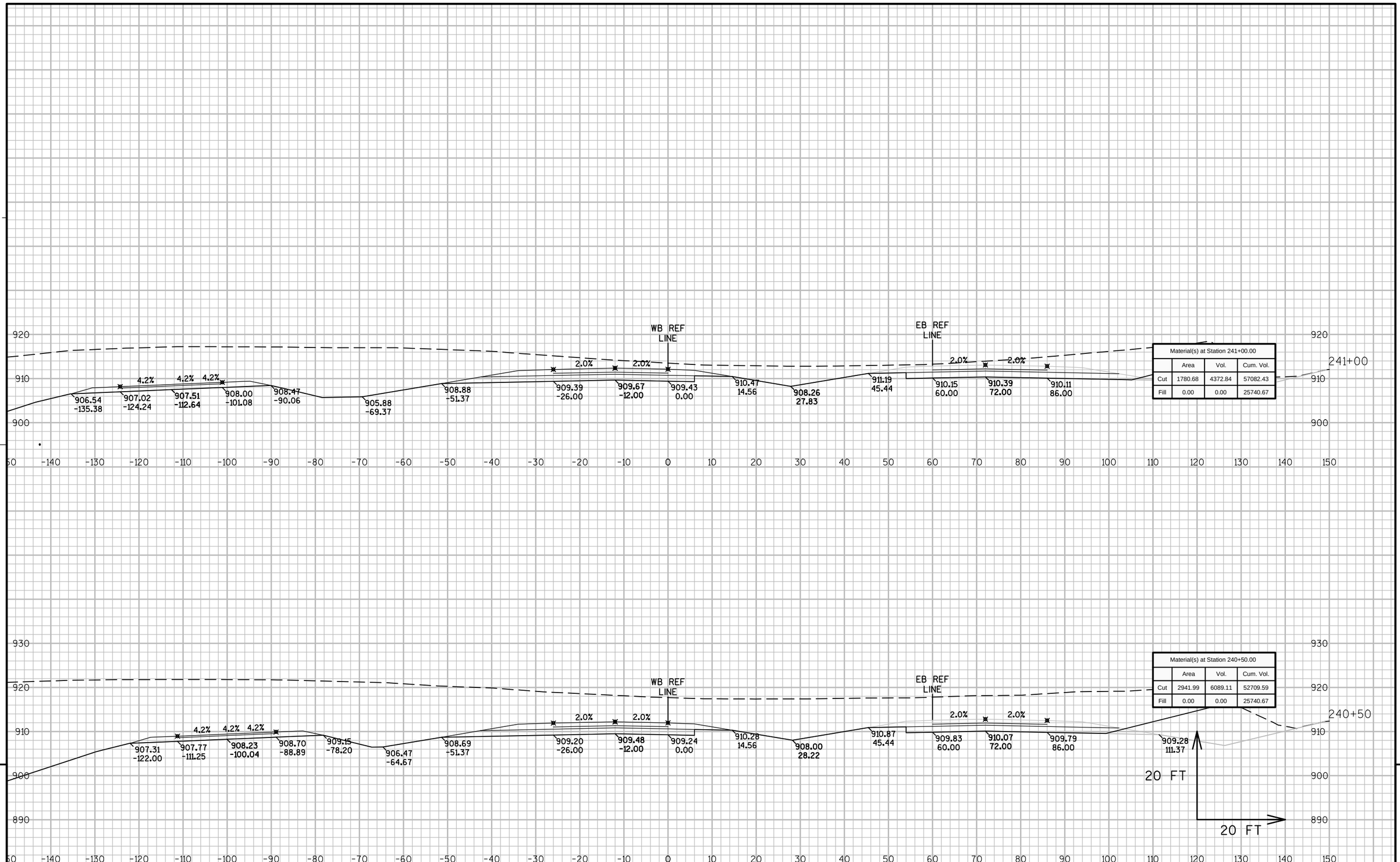
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 892	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-10

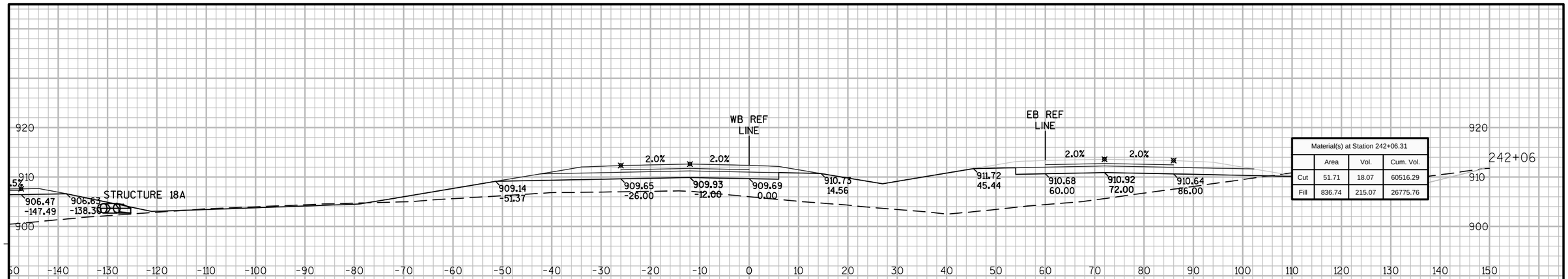
PLOT DATE : 9/26/2014 11:38 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



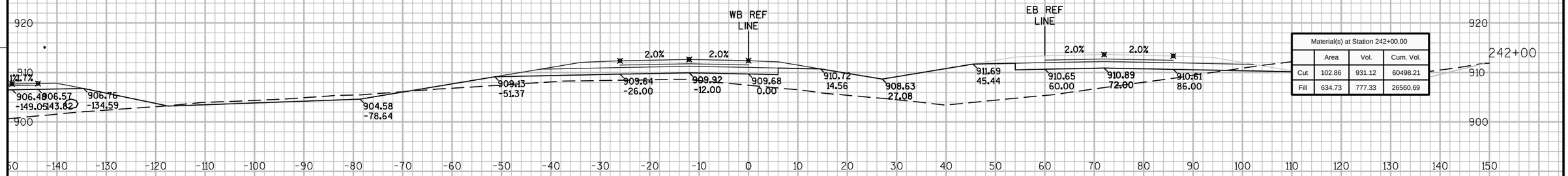
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 893	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-11

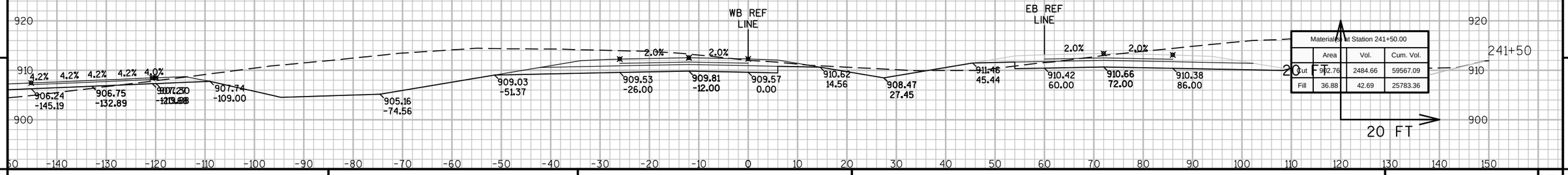
PLOT DATE : 9/26/2014 11:39 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



Material(s) at Station 242+06.31			
	Area	Vol.	Cum. Vol.
Cut	51.71	18.07	60516.29
Fill	836.74	215.07	26775.76



Material(s) at Station 242+00.00			
	Area	Vol.	Cum. Vol.
Cut	102.86	931.12	60498.21
Fill	634.73	777.33	26560.69



Material(s) at Station 241+50.00			
	Area	Vol.	Cum. Vol.
Cut	902.76	2484.66	59567.09
Fill	36.88	42.69	25783.36

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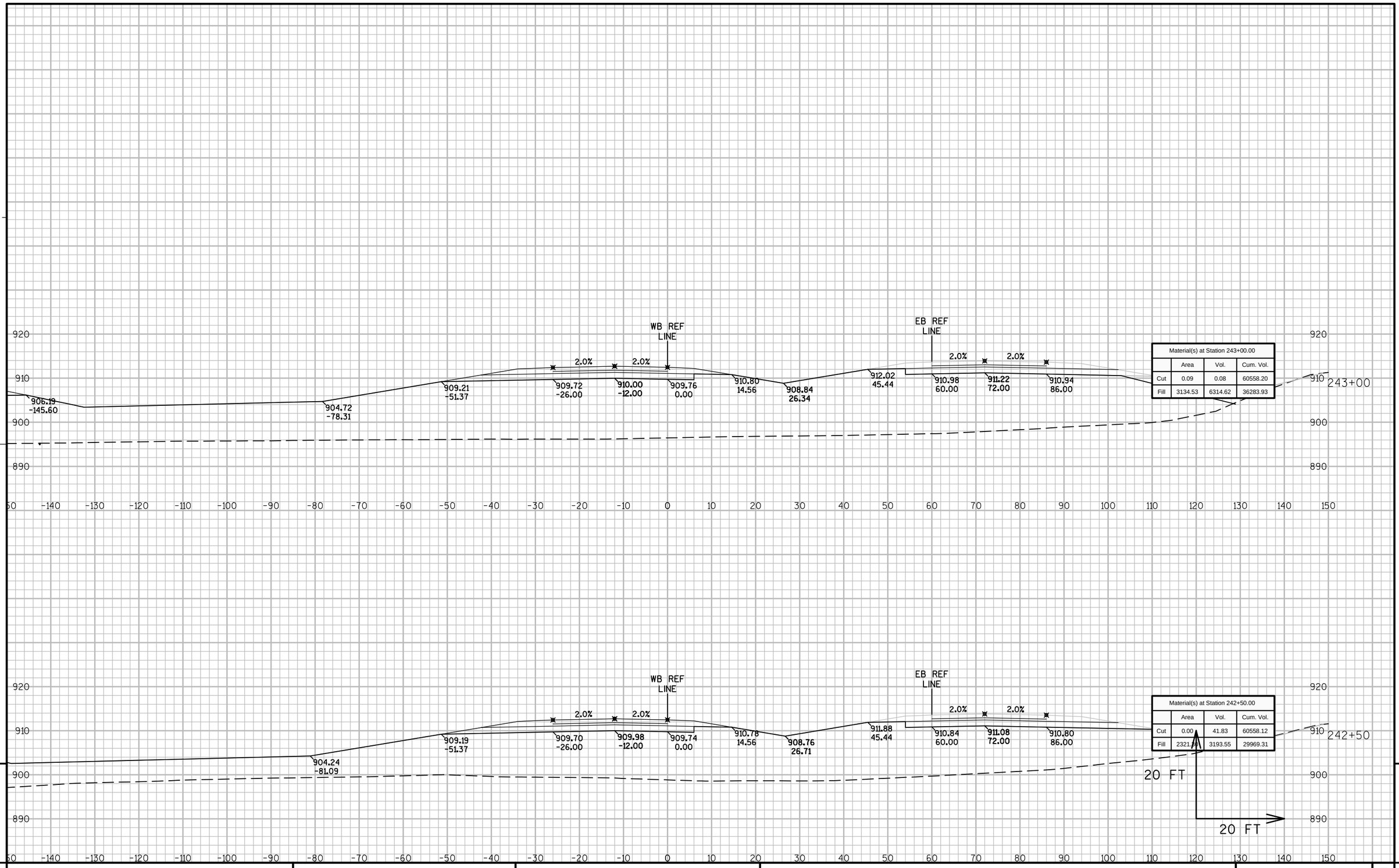
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 894	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-12

PLOT DATE : 9/26/2014 11:39 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



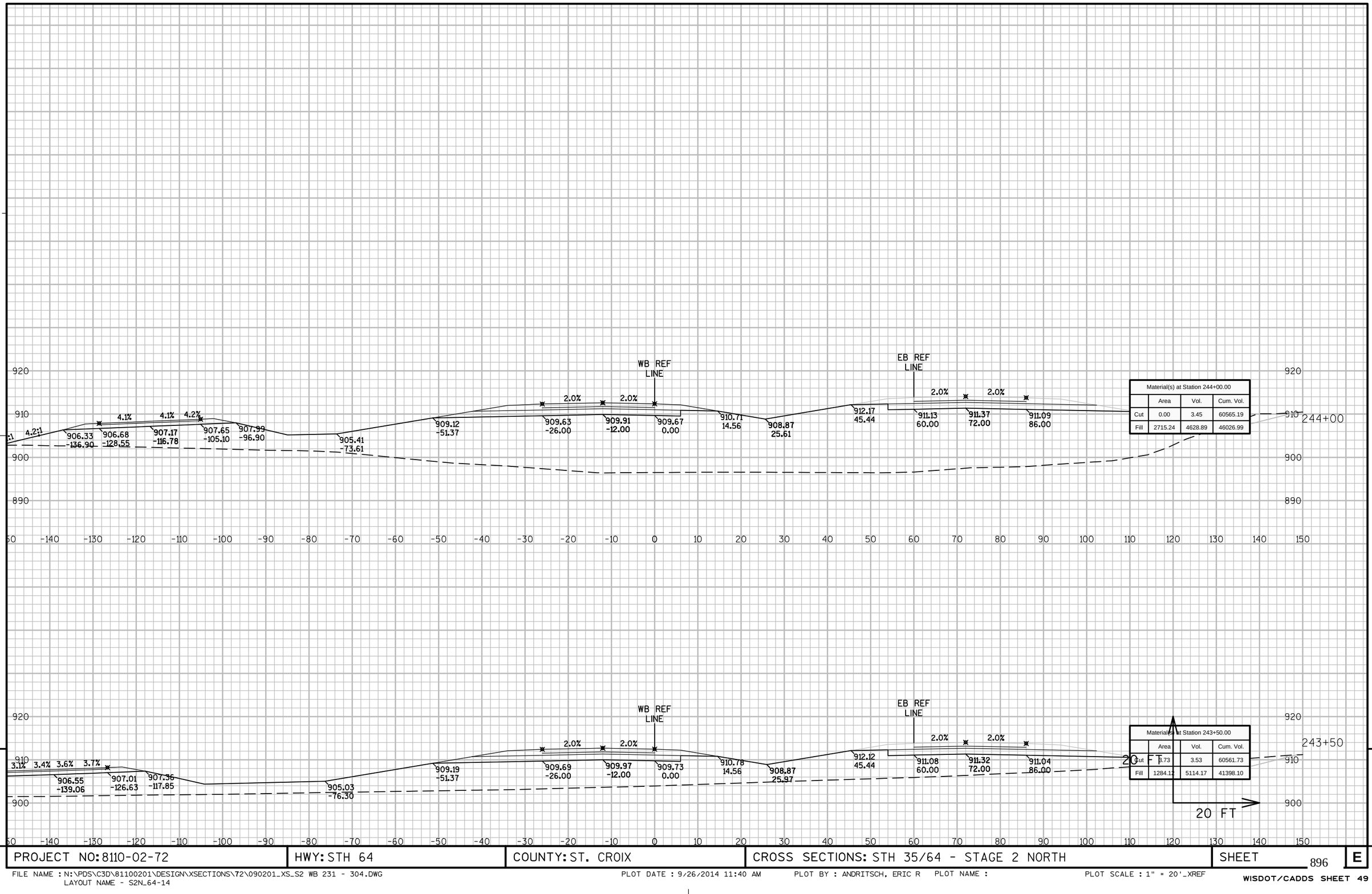
9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 895	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-13

PLOT DATE : 9/26/2014 11:40 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



Material(s) at Station 244+00.00			
	Area	Vol.	Cum. Vol.
Cut	0.00	3.45	60565.19
Fill	2715.24	4628.89	46026.99

Material(s) at Station 243+50.00			
	Area	Vol.	Cum. Vol.
Cut	3.73	3.53	60561.73
Fill	1284.12	5114.17	41398.10

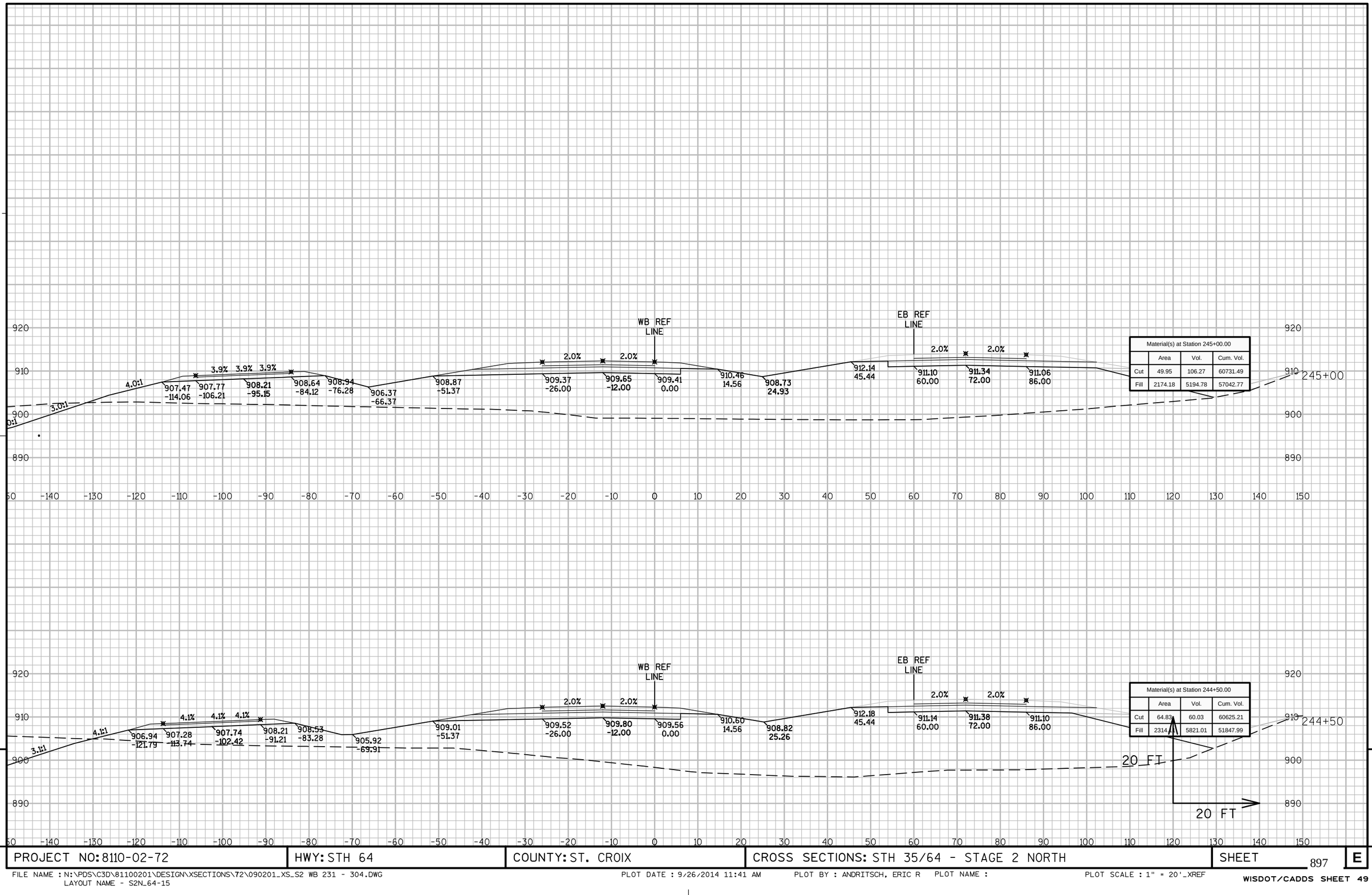
9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 896	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-14

PLOT DATE : 9/26/2014 11:40 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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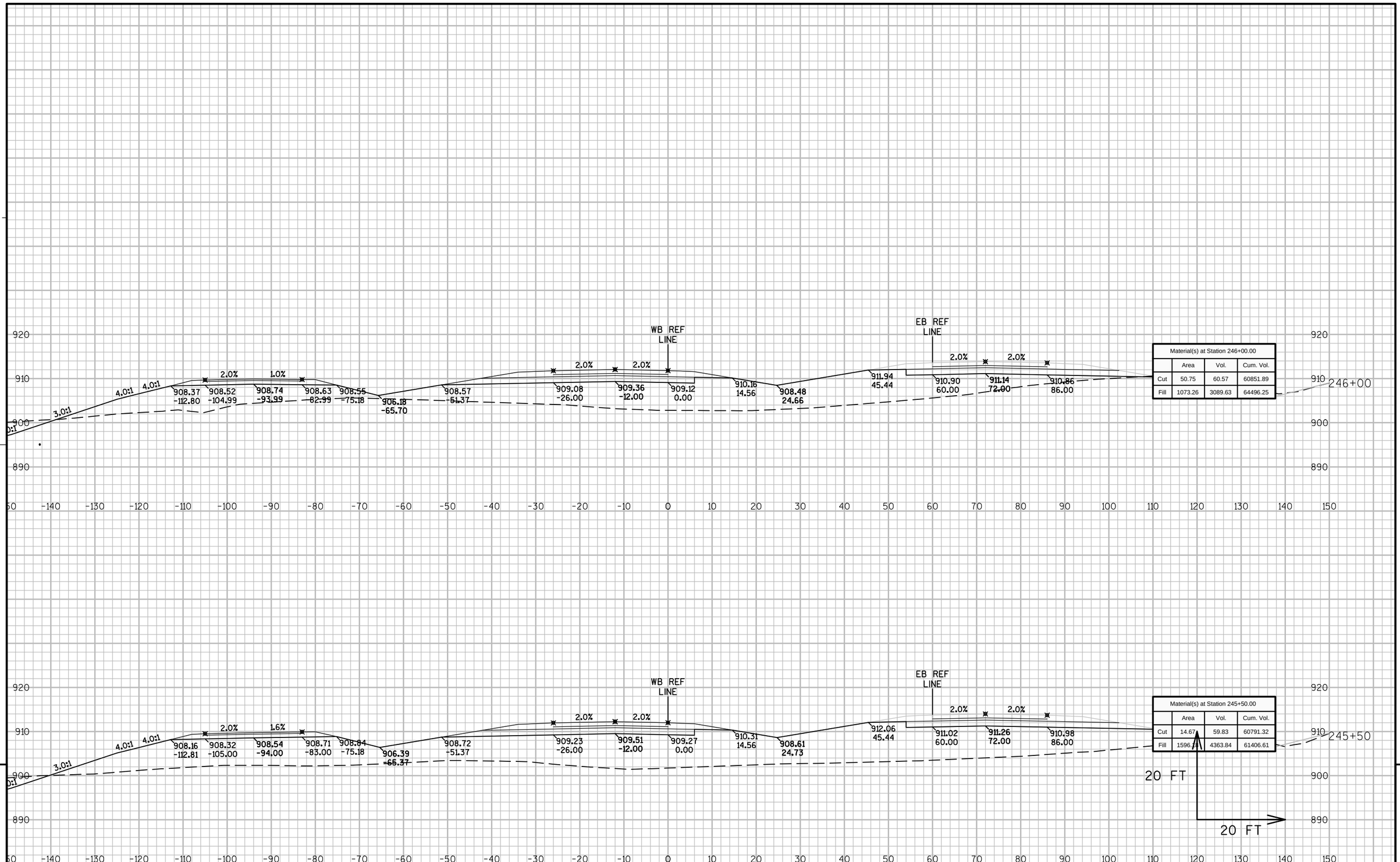
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 897	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-15

PLOT DATE : 9/26/2014 11:41 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



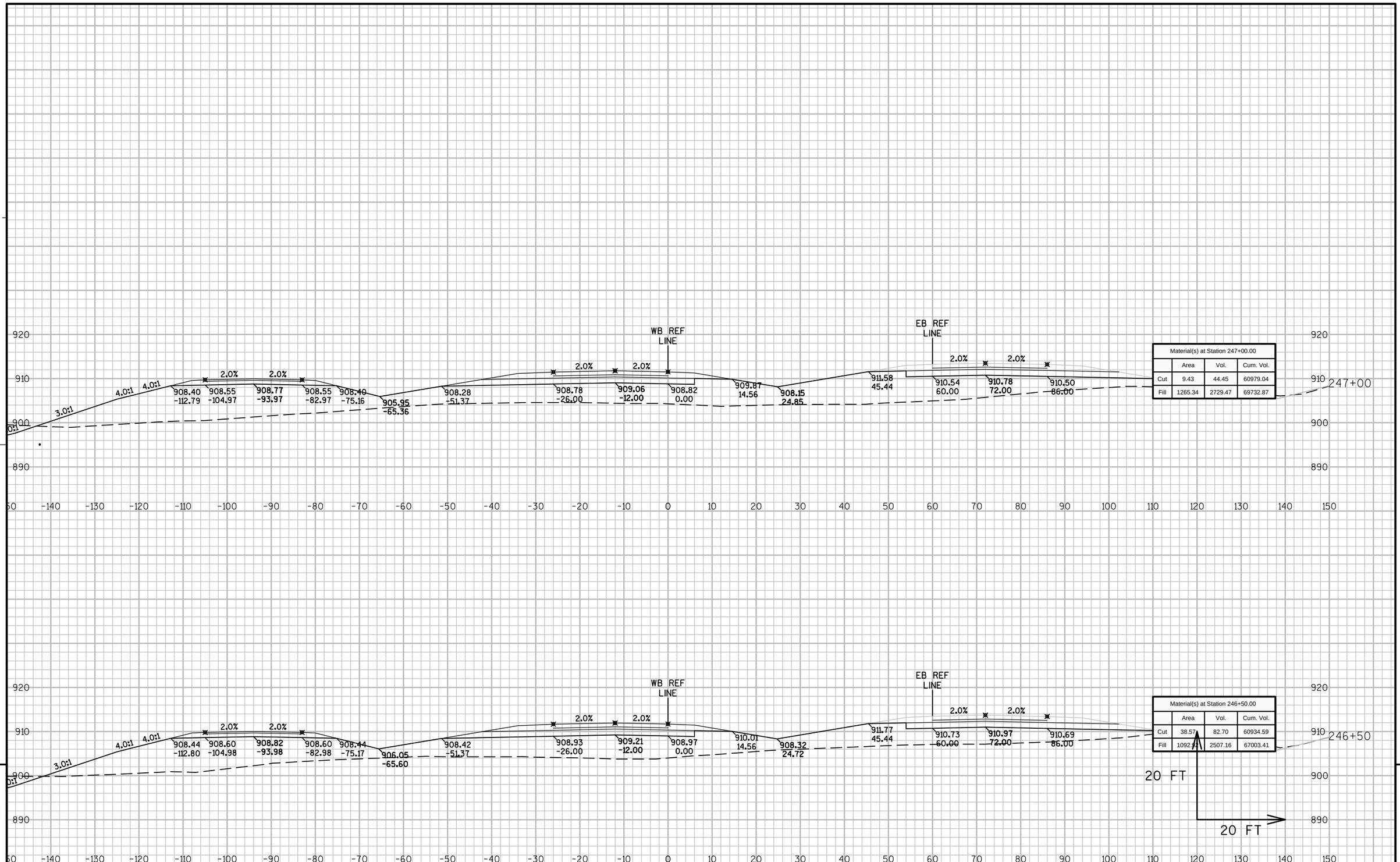
9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 898	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-16

PLOT DATE : 9/26/2014 11:41 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



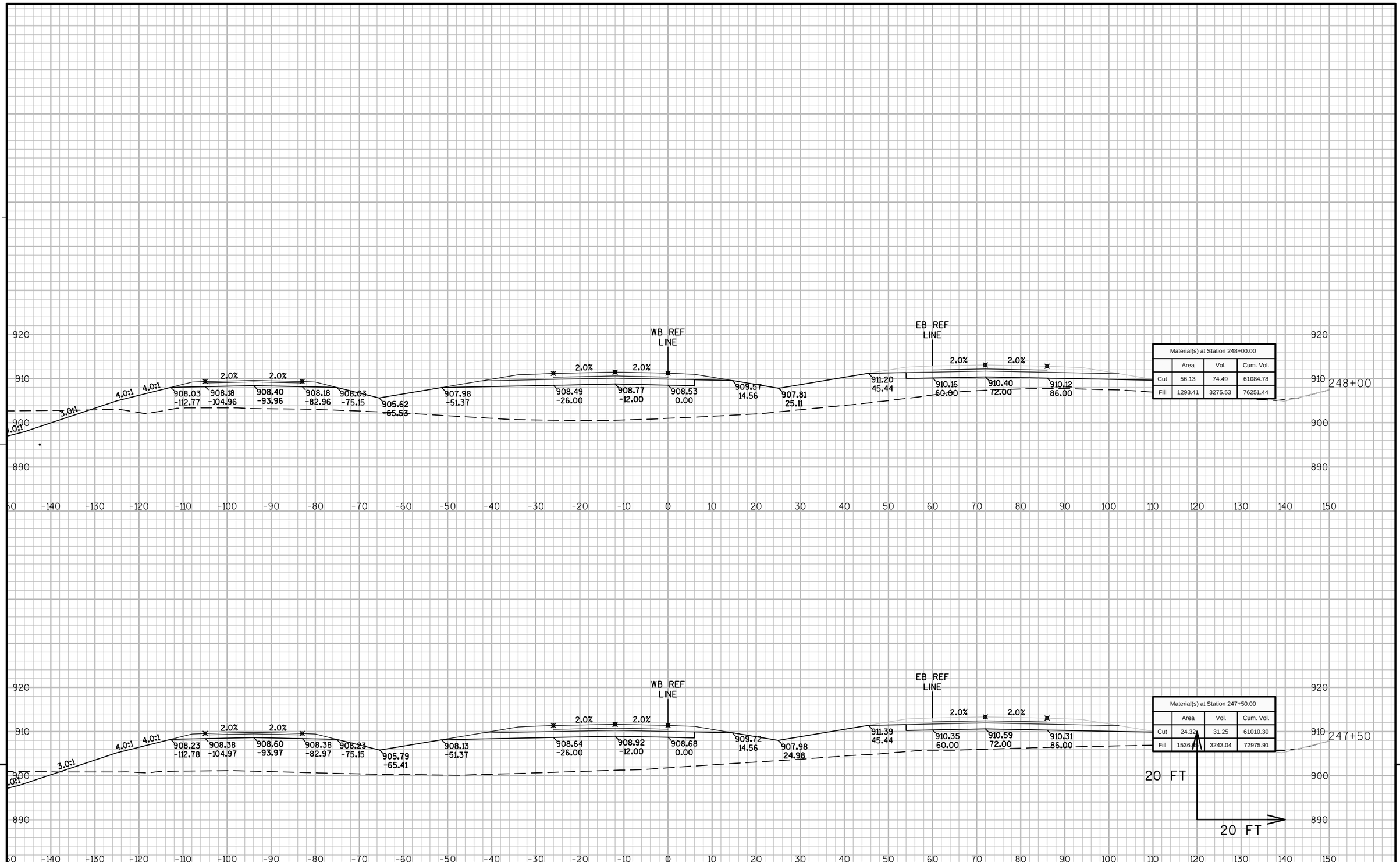
9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 899	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-17

PLOT DATE : 9/26/2014 11:42 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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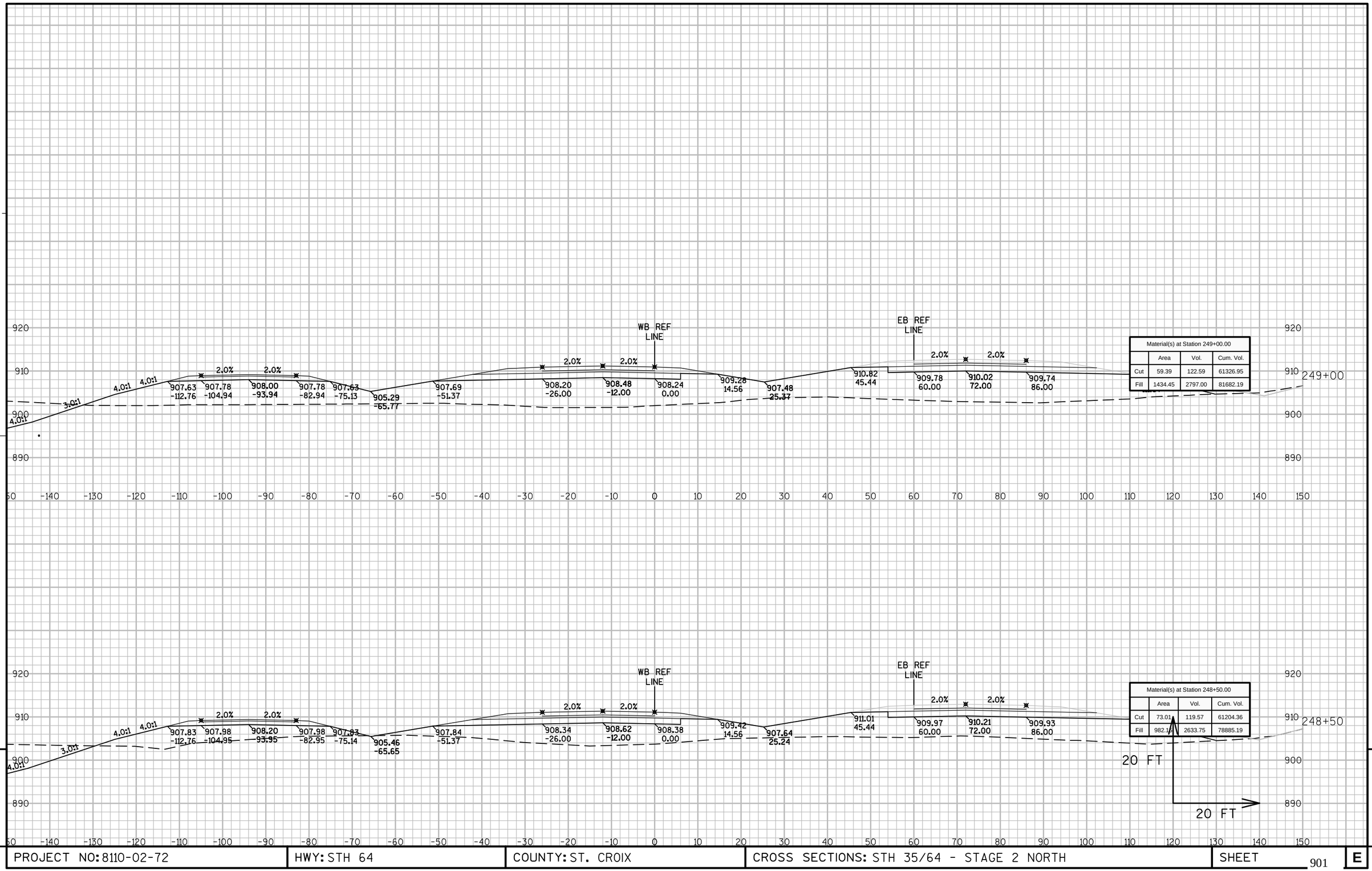
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-18

PLOT DATE : 9/26/2014 11:42 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

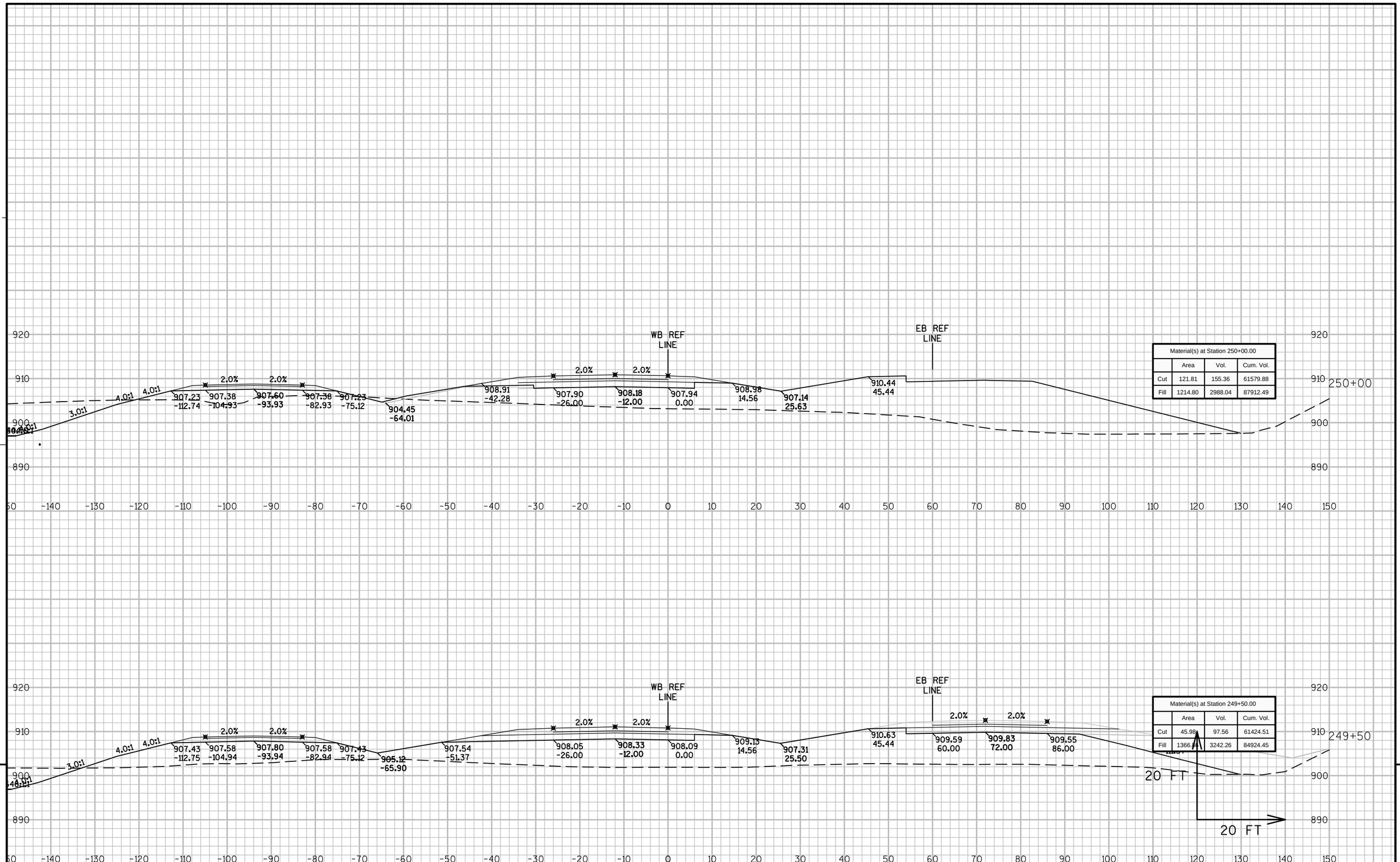


Material(s) at Station 249+00.00			
	Area	Vol.	Cum. Vol.
Cut	59.39	122.59	61326.95
Fill	1434.45	2797.00	81682.19

Material(s) at Station 248+50.00			
	Area	Vol.	Cum. Vol.
Cut	73.01	119.57	61204.36
Fill	982.18	2633.75	78885.19

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 901	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-19
PLOT DATE : 9/26/2014 11:43 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

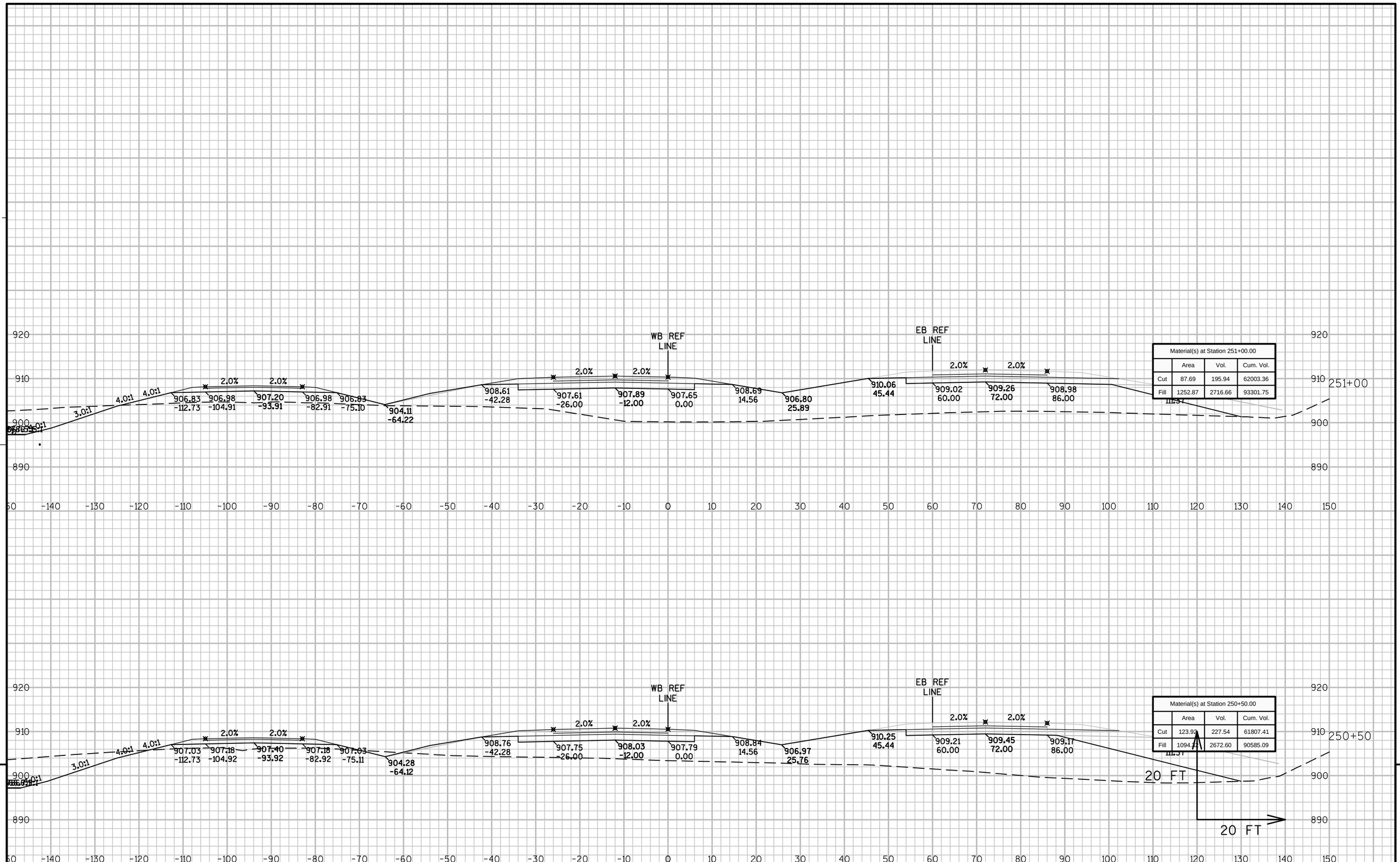


9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 902 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-20

PLOT DATE : 9/26/2014 11:43 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

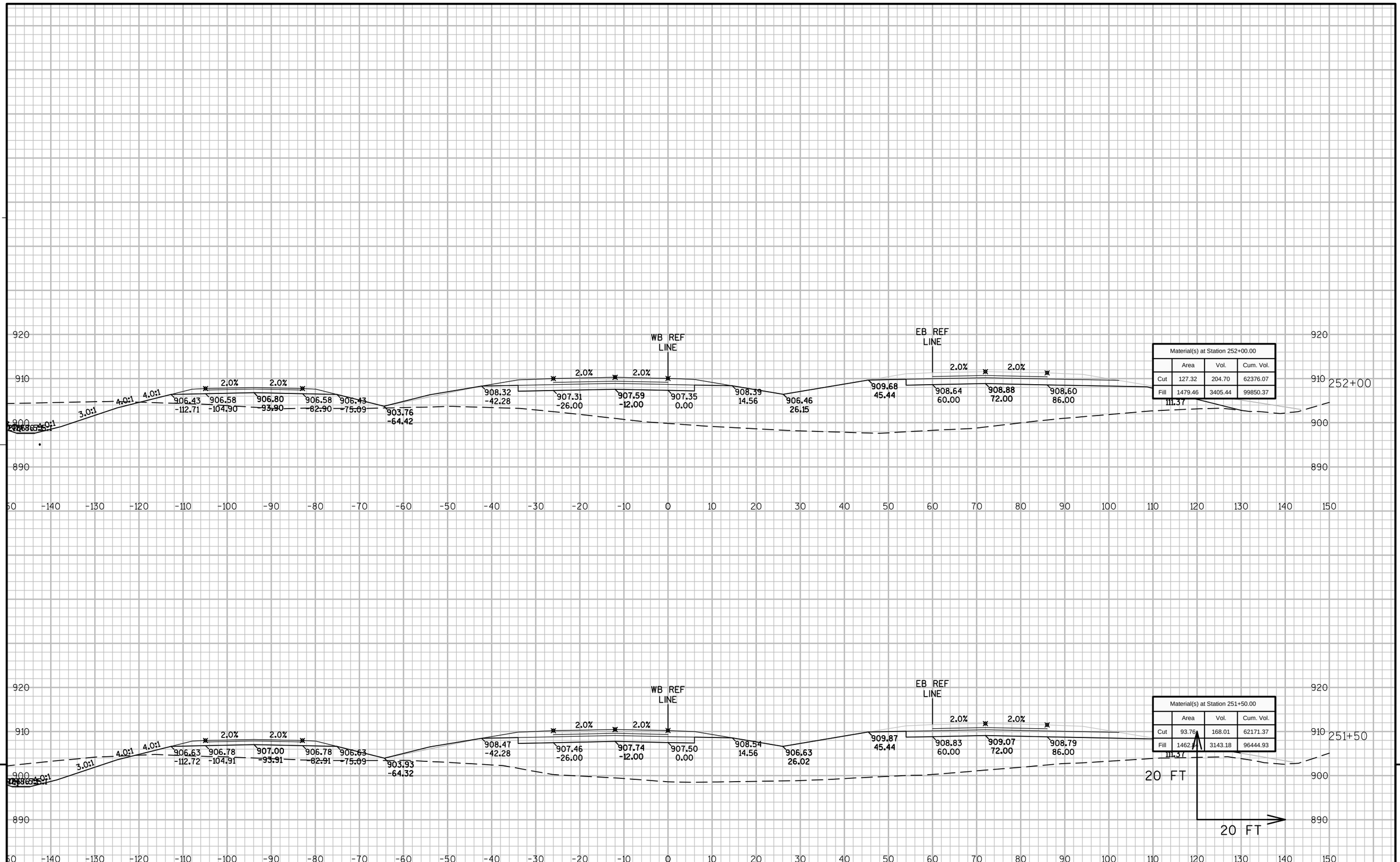


9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 903 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-21

PLOT DATE : 9/26/2014 11:44 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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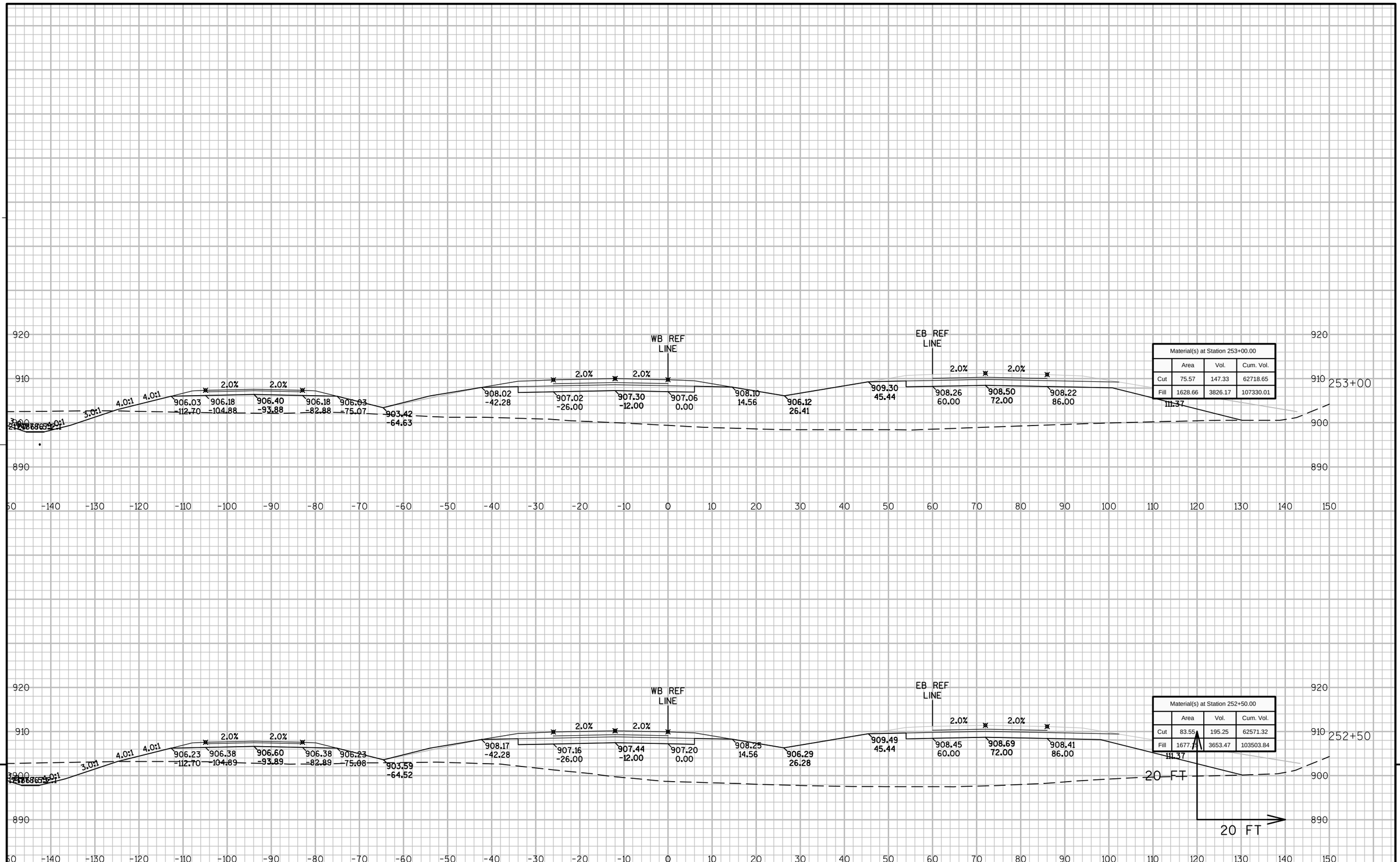
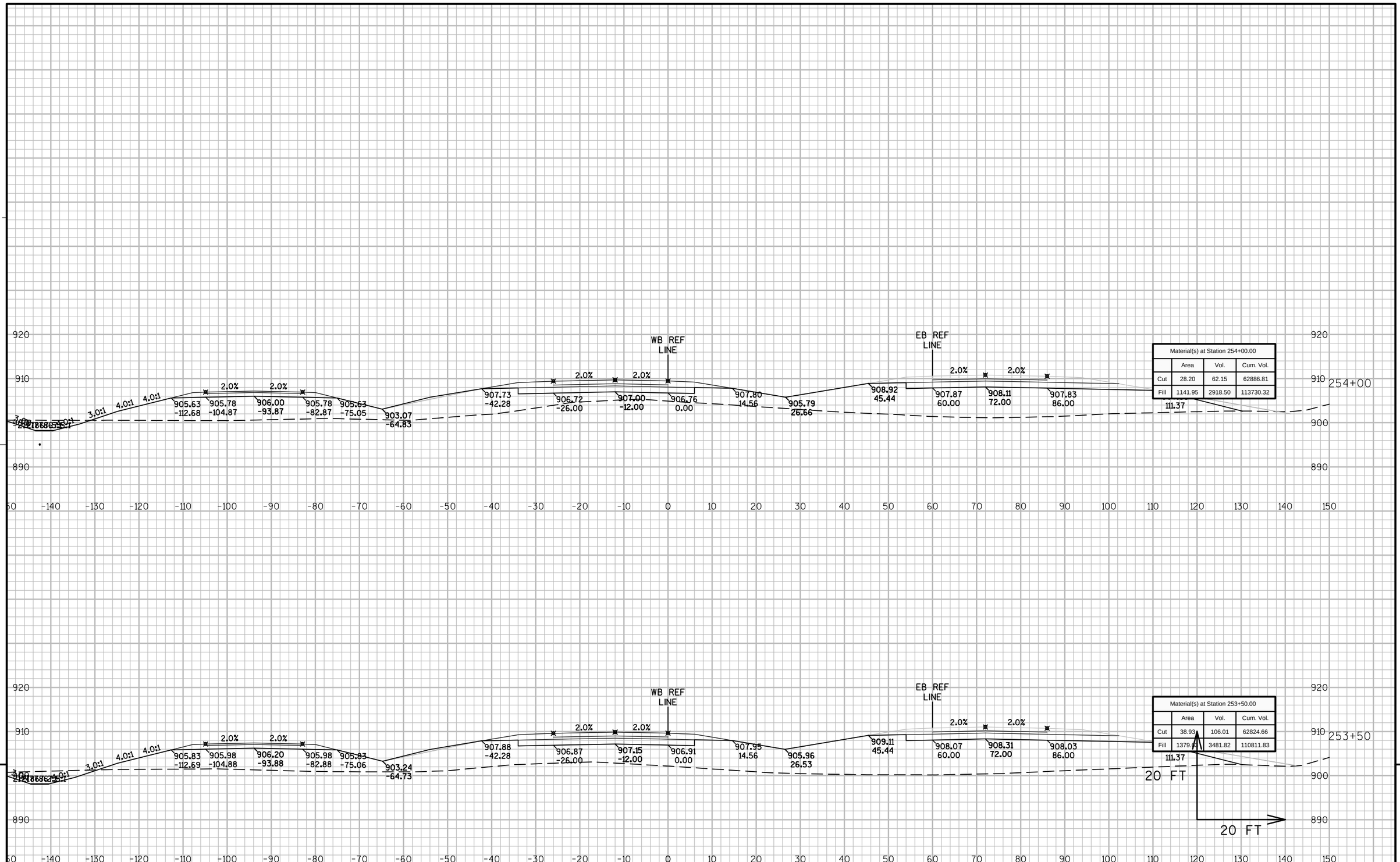
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 904	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-22

PLOT DATE : 9/26/2014 11:44 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 905	E



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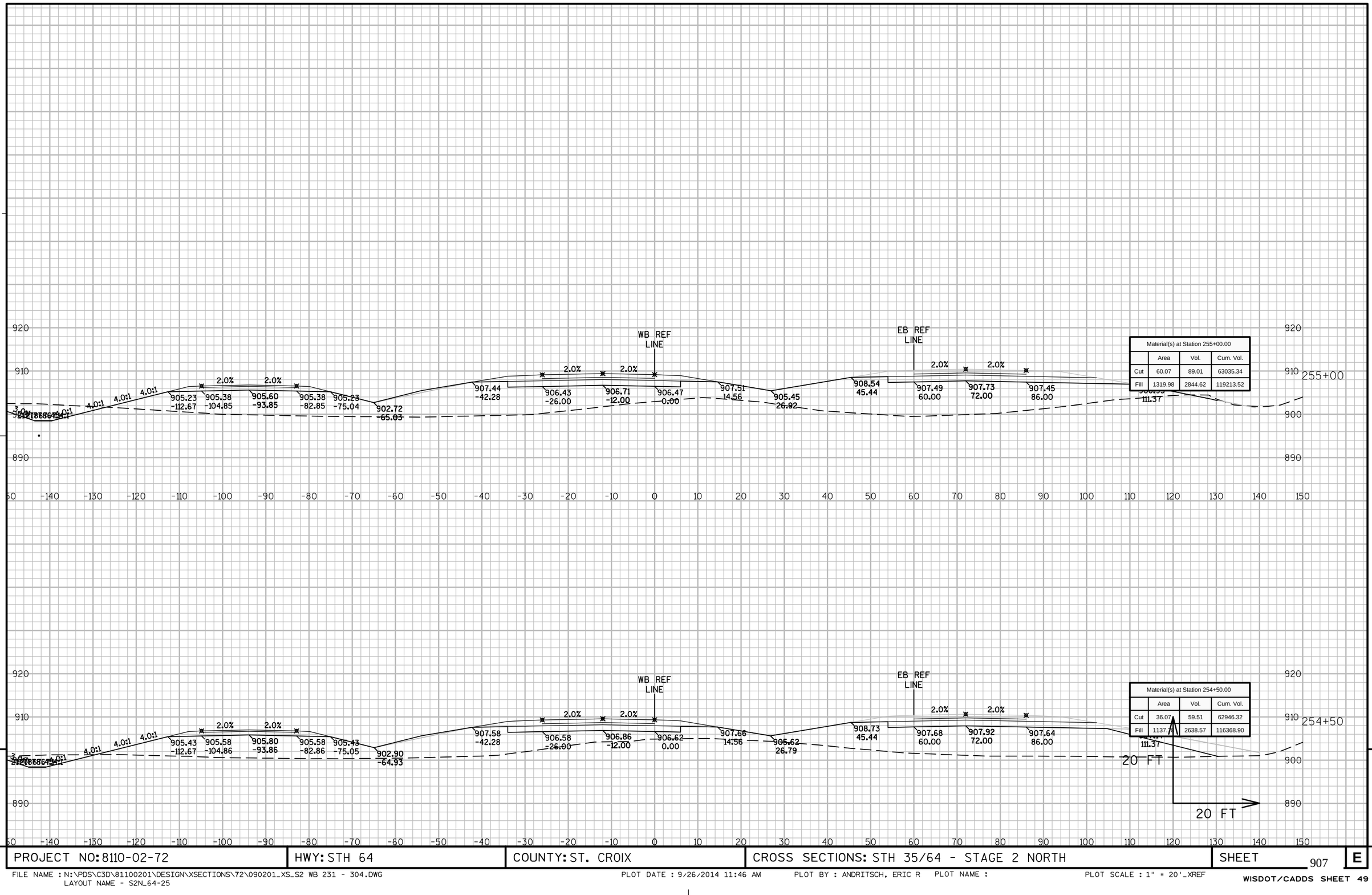
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 906	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-24

PLOT DATE : 9/26/2014 11:45 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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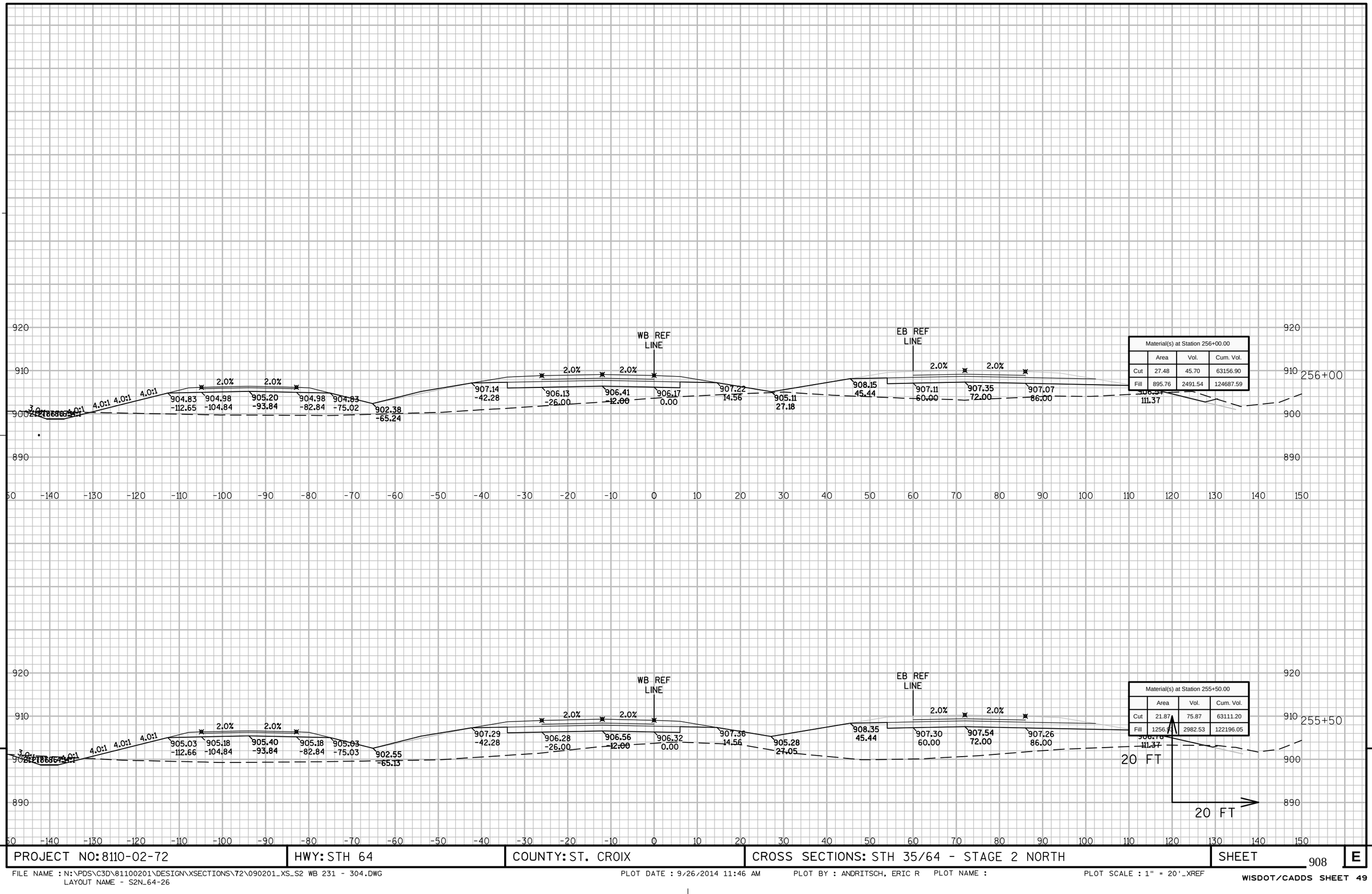
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 907 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-25

PLOT DATE : 9/26/2014 11:46 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



Material(s) at Station 256+00.00			
	Area	Vol.	Cum. Vol.
Cut	27.48	45.70	63156.90
Fill	895.76	2491.54	124687.59

Material(s) at Station 255+50.00			
	Area	Vol.	Cum. Vol.
Cut	21.87	75.87	63111.20
Fill	1256.33	2982.53	122196.05

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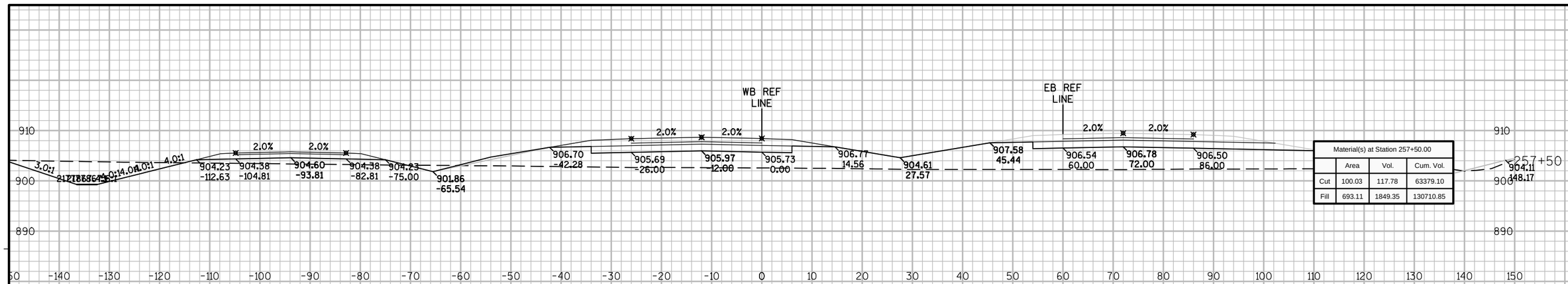
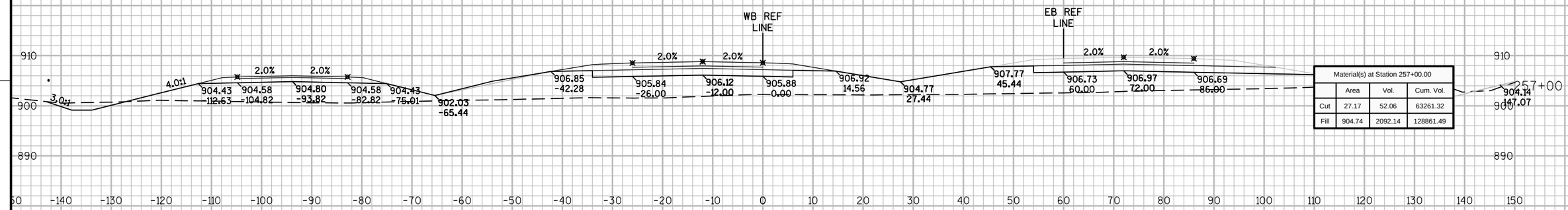
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 908	E

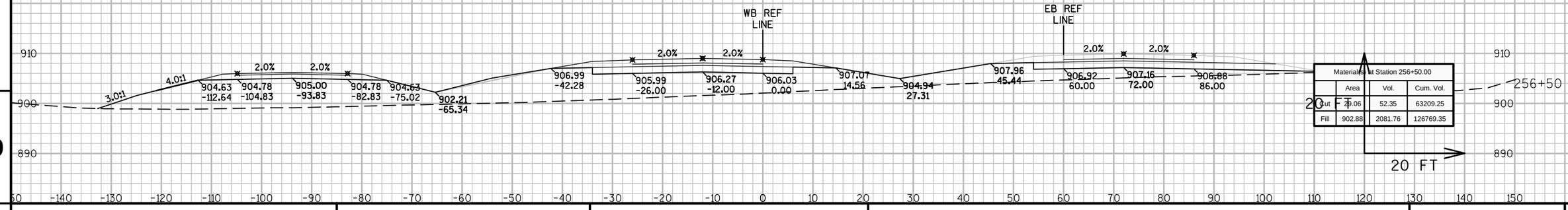
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-26
PLOT DATE : 9/26/2014 11:46 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



Material(s) at Station 257+50.00			
	Area	Vol.	Cum. Vol.
Cut	100.03	117.78	63379.10
Fill	693.11	1849.35	130710.85



Material(s) at Station 257+00.00			
	Area	Vol.	Cum. Vol.
Cut	27.17	52.06	63261.32
Fill	904.74	2092.14	128861.49



Material(s) at Station 256+50.00			
	Area	Vol.	Cum. Vol.
Cut	25.06	52.35	63209.25
Fill	902.88	2081.76	126769.35

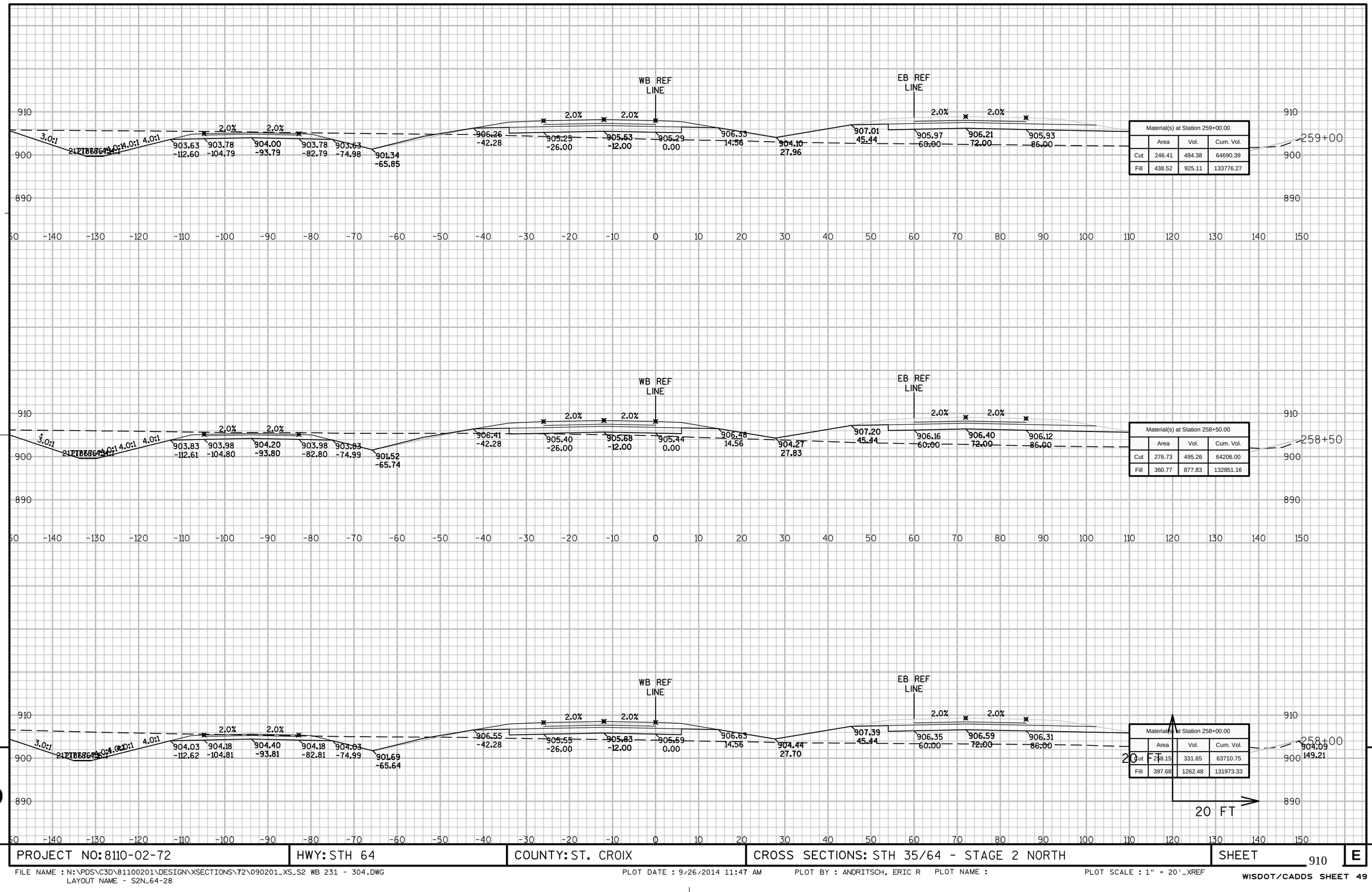
9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 909	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-27

PLOT DATE : 9/26/2014 11:47 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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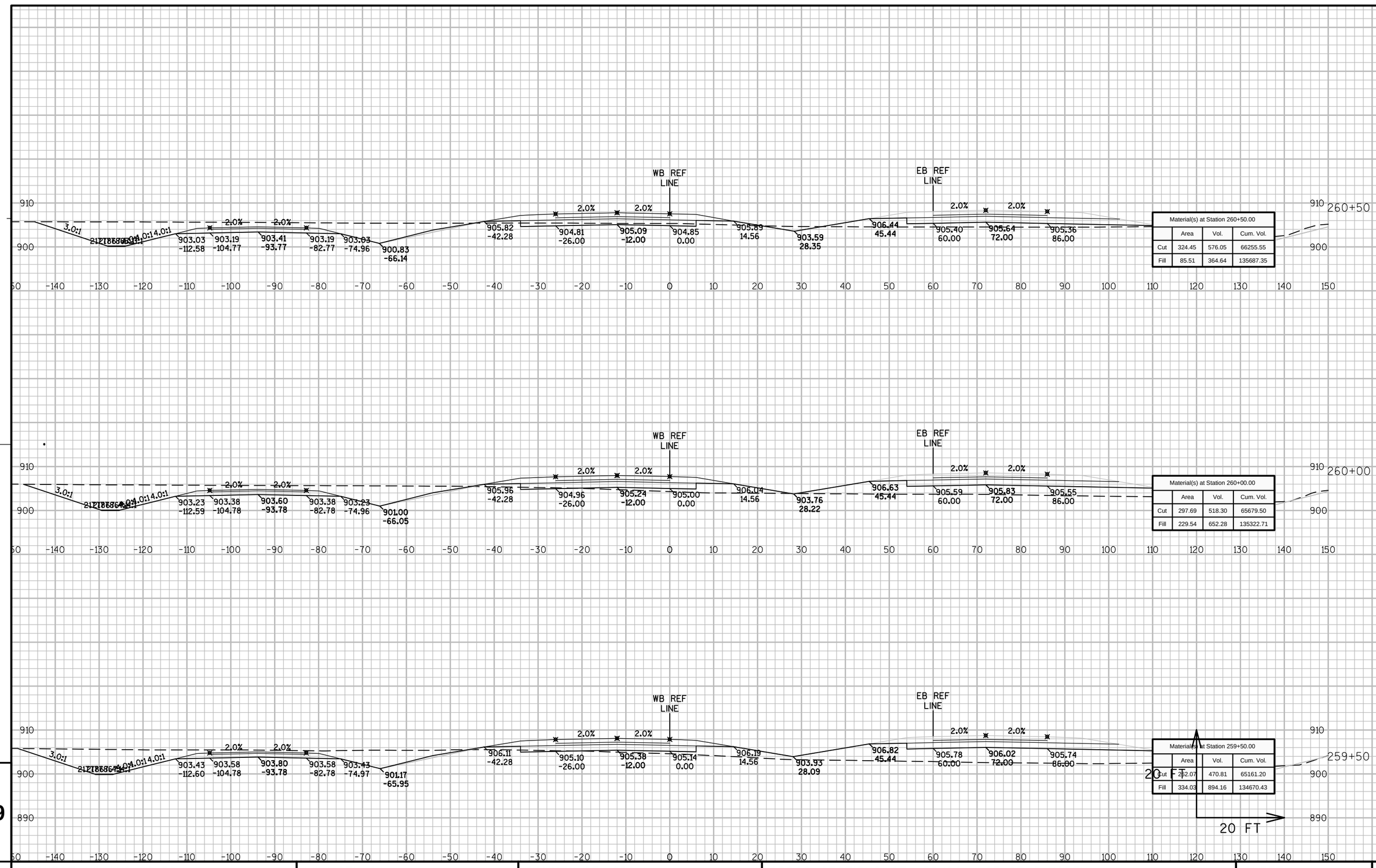
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 910	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-28

PLOT DATE : 9/26/2014 11:47 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



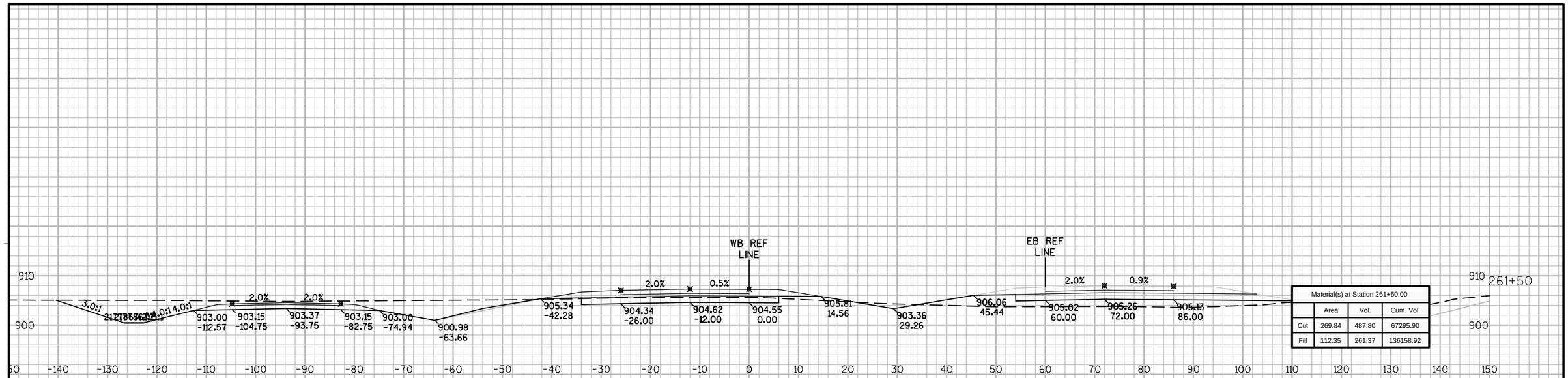
9

PROJECT NO: 8110-02-72 | HWY: STH 64 | COUNTY: ST. CROIX | CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH | SHEET 911 | E

9

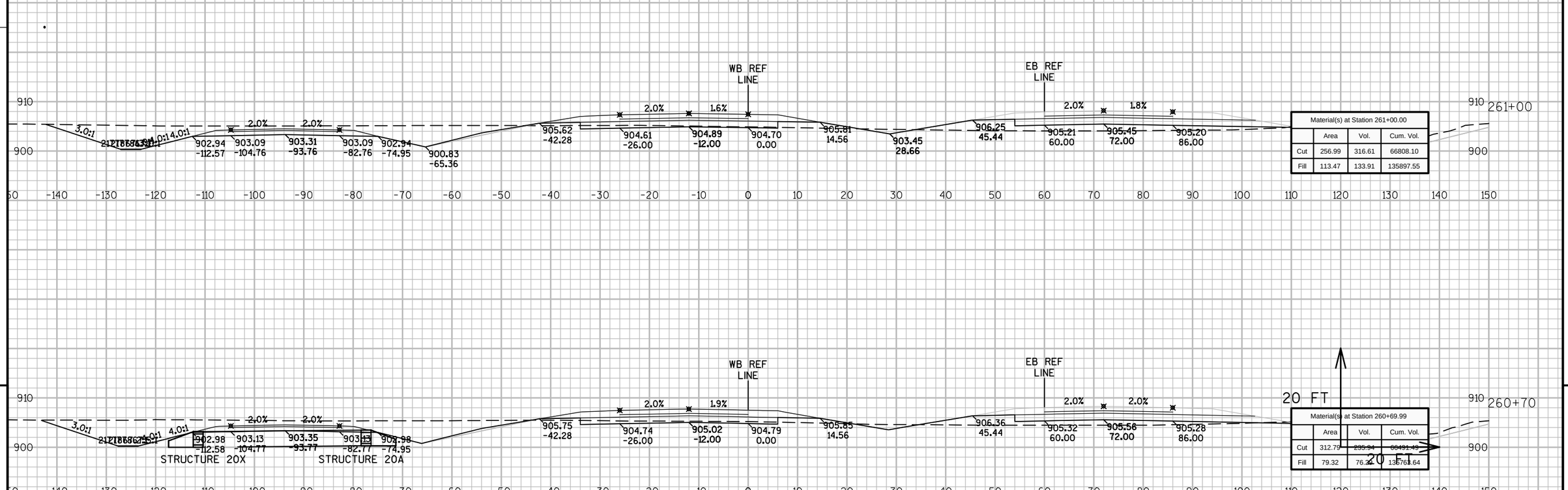
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-29

PLOT DATE : 9/26/2014 11:48 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



Material(s) at Station 261+50.00

	Area	Vol.	Cum. Vol.
Cut	269.84	487.80	67295.90
Fill	112.35	261.37	136158.92



Material(s) at Station 261+00.00

	Area	Vol.	Cum. Vol.
Cut	256.99	316.61	66808.10
Fill	113.47	133.91	135897.55

Material(s) at Station 260+69.99

	Area	Vol.	Cum. Vol.
Cut	312.79	235.94	66491.49
Fill	79.32	76.22	135761.64

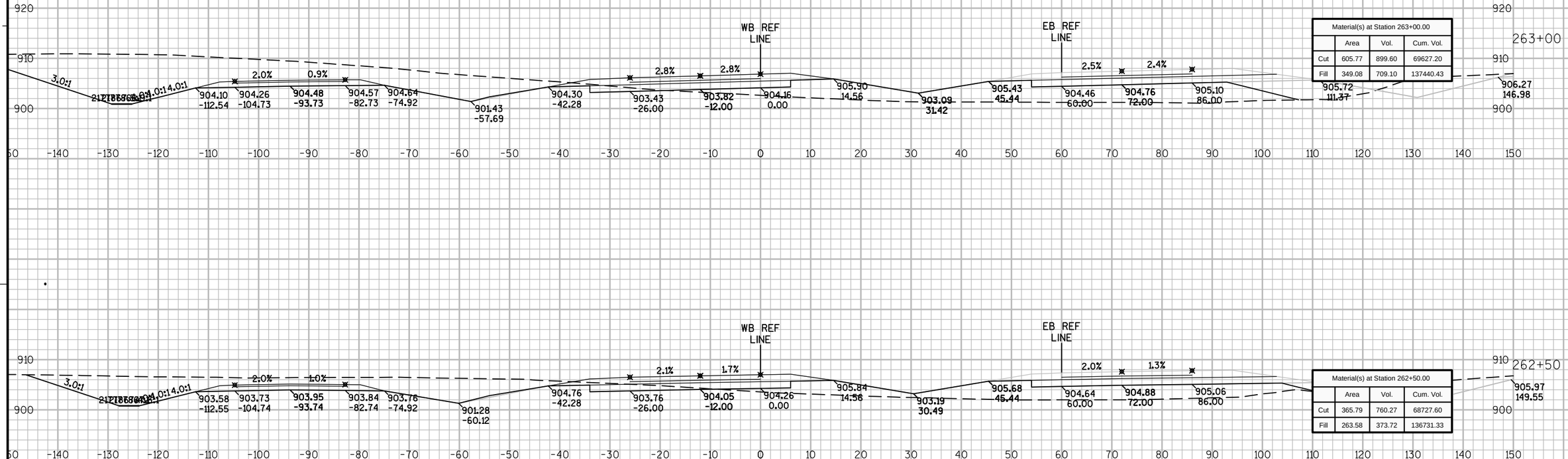
9 9

PROJECT NO: 8110-02-72 | HWY: STH 64 | COUNTY: ST. CROIX | CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH | SHEET 912 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-30

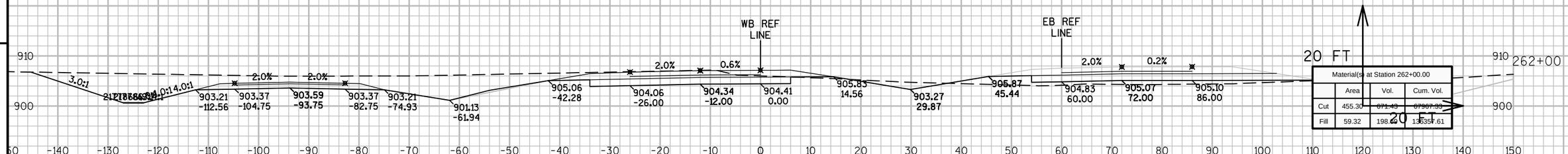
PLOT DATE : 9/26/2014 11:48 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



Material(s) at Station 263+00.00			
	Area	Vol.	Cum. Vol.
Cut	605.77	899.60	69627.20
Fill	349.08	709.10	137440.43

Material(s) at Station 262+50.00			
	Area	Vol.	Cum. Vol.
Cut	365.79	760.27	68727.60
Fill	263.58	373.72	136731.33

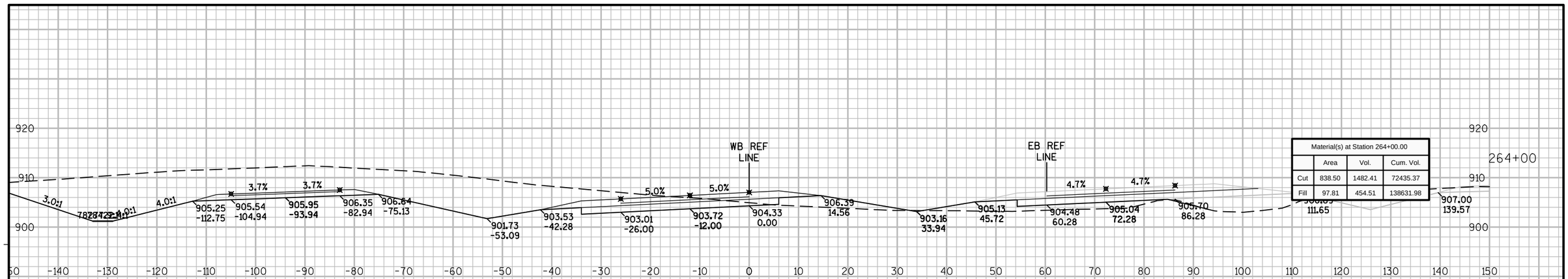


Material(s) at Station 262+00.00			
	Area	Vol.	Cum. Vol.
Cut	455.30	871.43	67907.93
Fill	59.32	198.63	136357.61

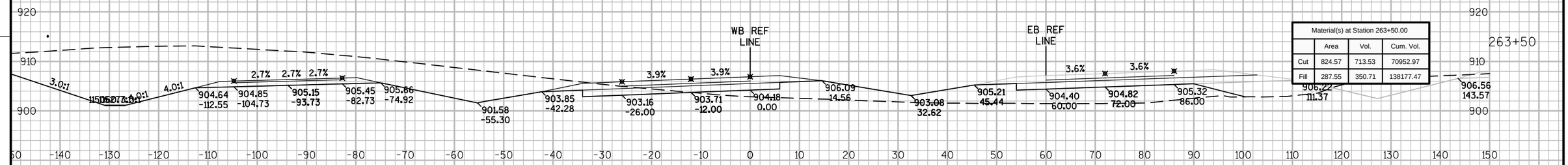
9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 913 E

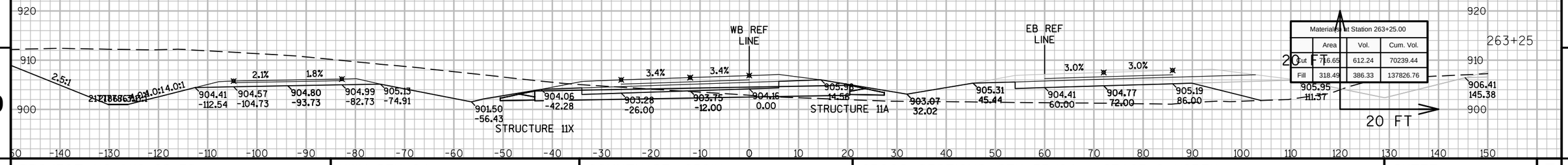
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-31
PLOT DATE : 9/26/2014 11:49 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



Material(s) at Station 264+00.00			
	Area	Vol.	Cum. Vol.
Cut	838.50	1482.41	72435.37
Fill	97.81	454.51	138631.98



Material(s) at Station 263+50.00			
	Area	Vol.	Cum. Vol.
Cut	824.57	713.53	70952.97
Fill	287.55	350.71	138177.47

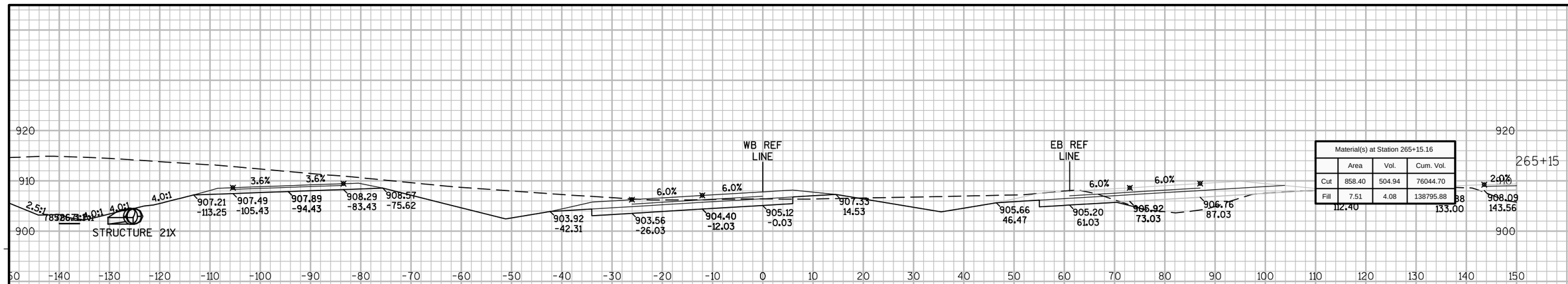


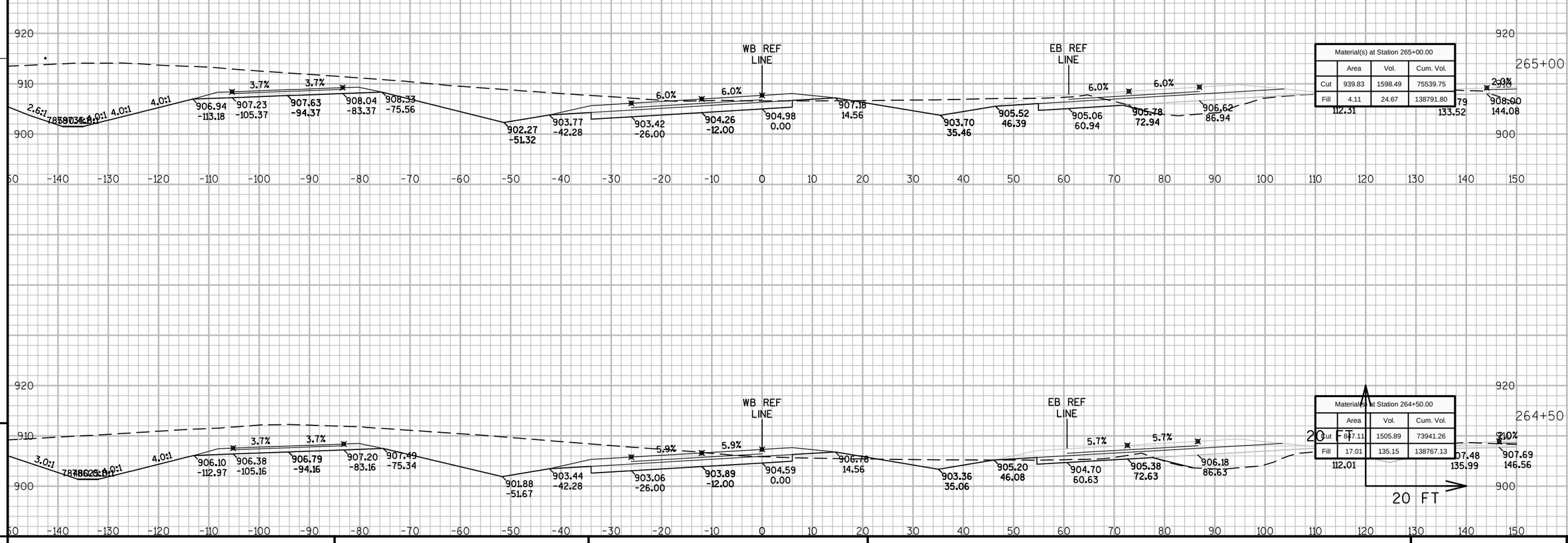
Material(s) at Station 263+25.00			
	Area	Vol.	Cum. Vol.
Cut	716.65	612.24	70239.44
Fill	318.49	386.33	137826.76

9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 914	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-32
PLOT DATE : 9/26/2014 11:49 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49





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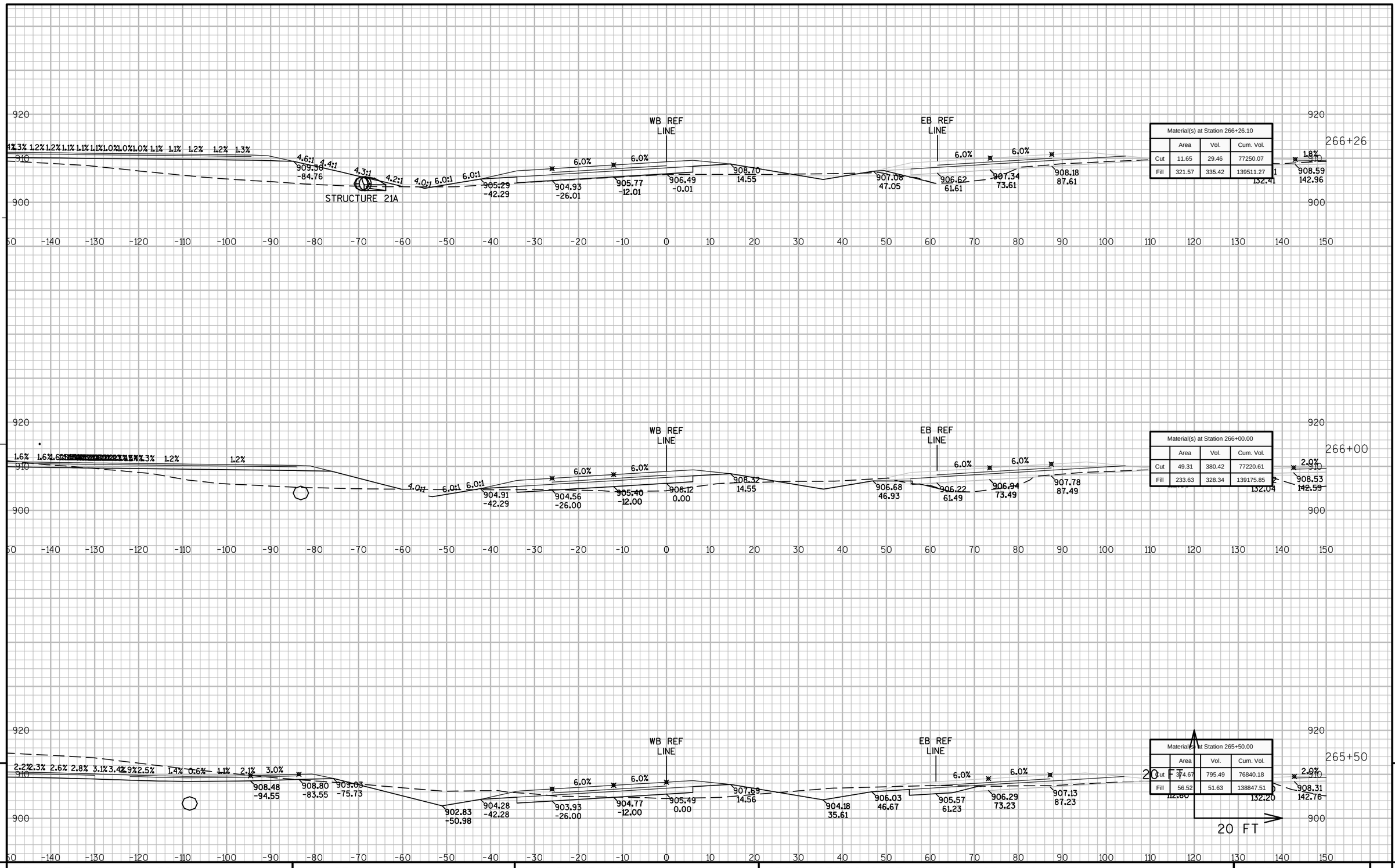
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 915	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-33

PLOT DATE : 9/26/2014 11:50 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

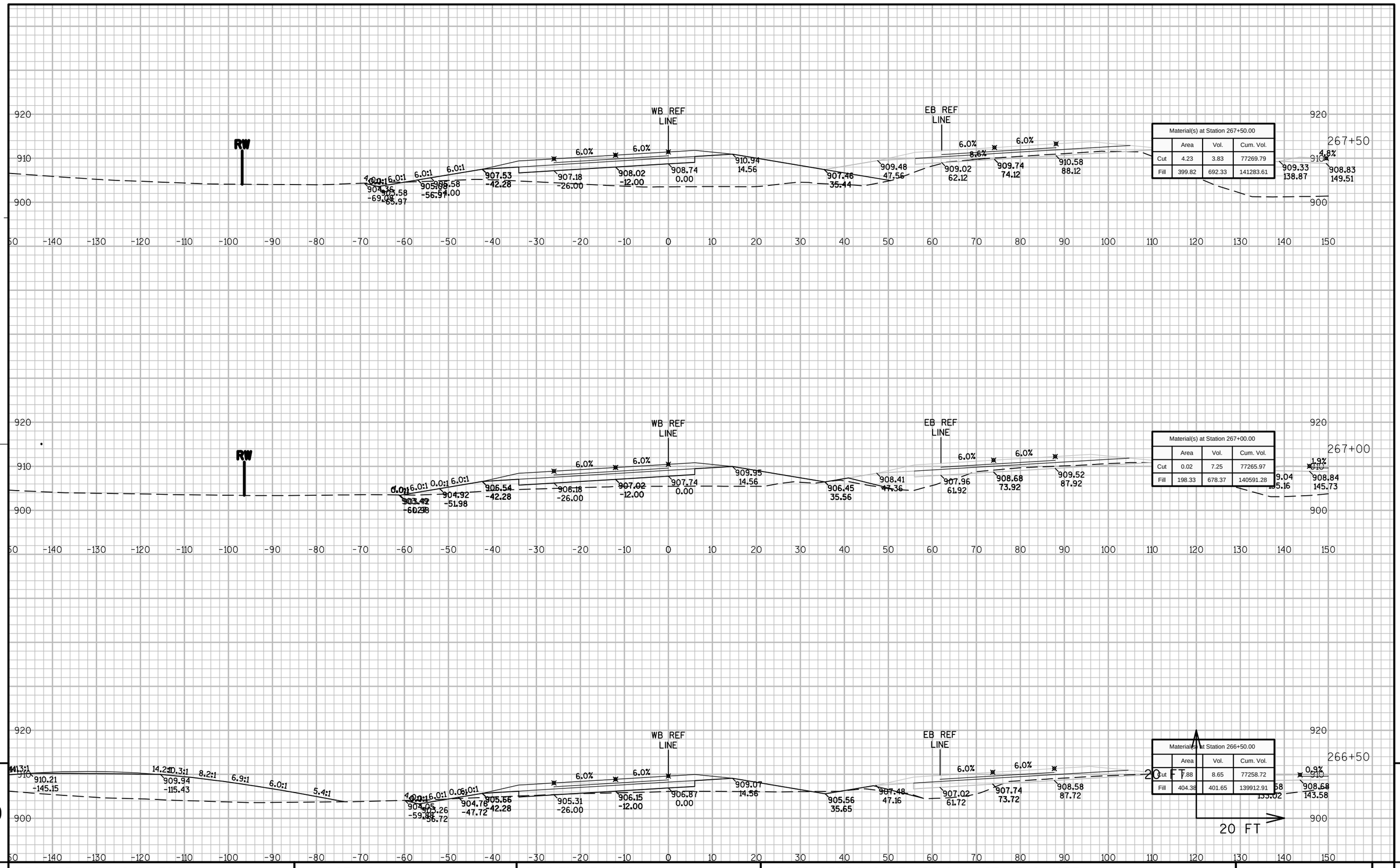


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 916	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-34

PLOT DATE : 9/26/2014 11:50 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

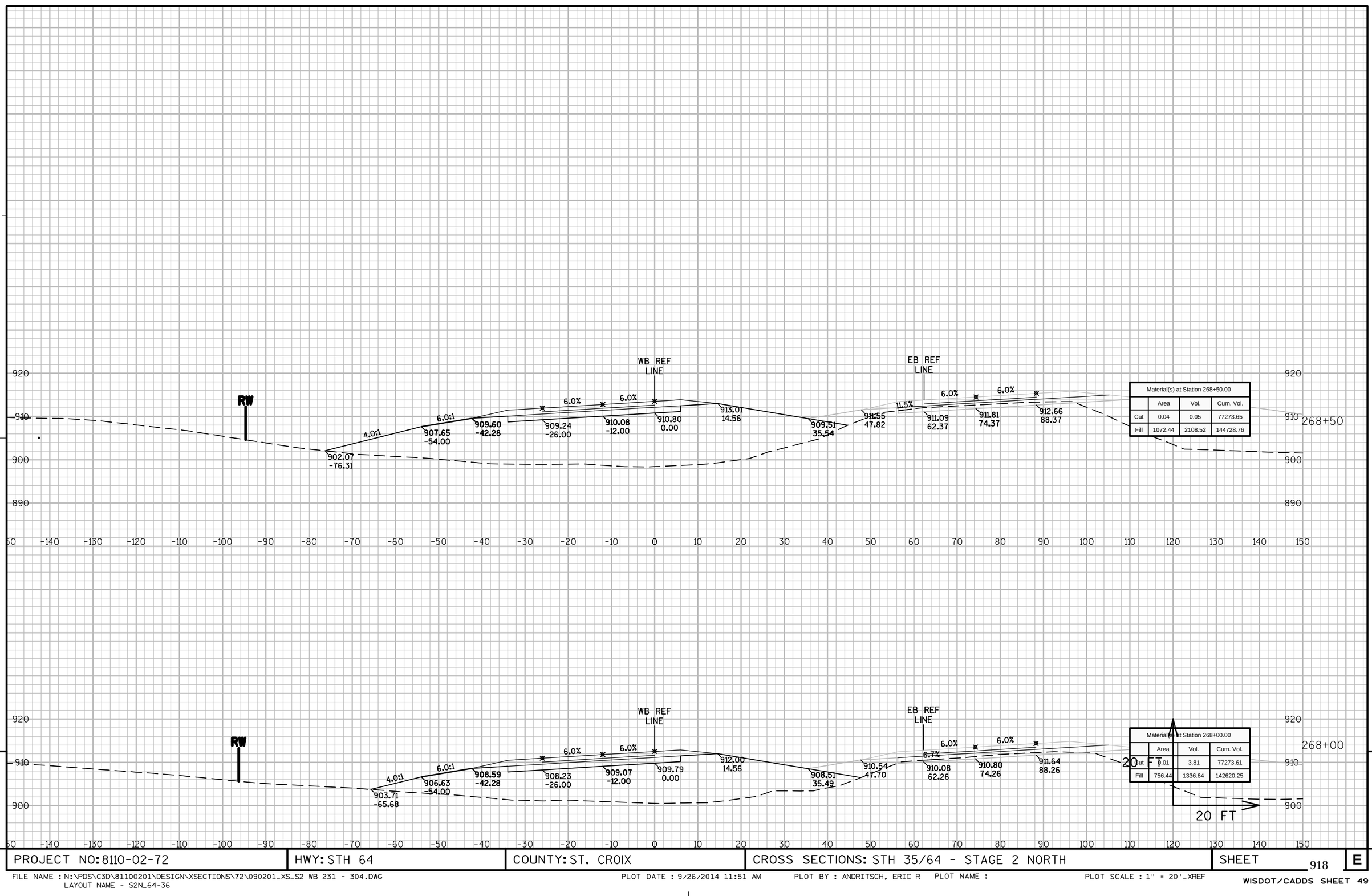


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 917	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-35

PLOT DATE : 9/26/2014 11:51 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

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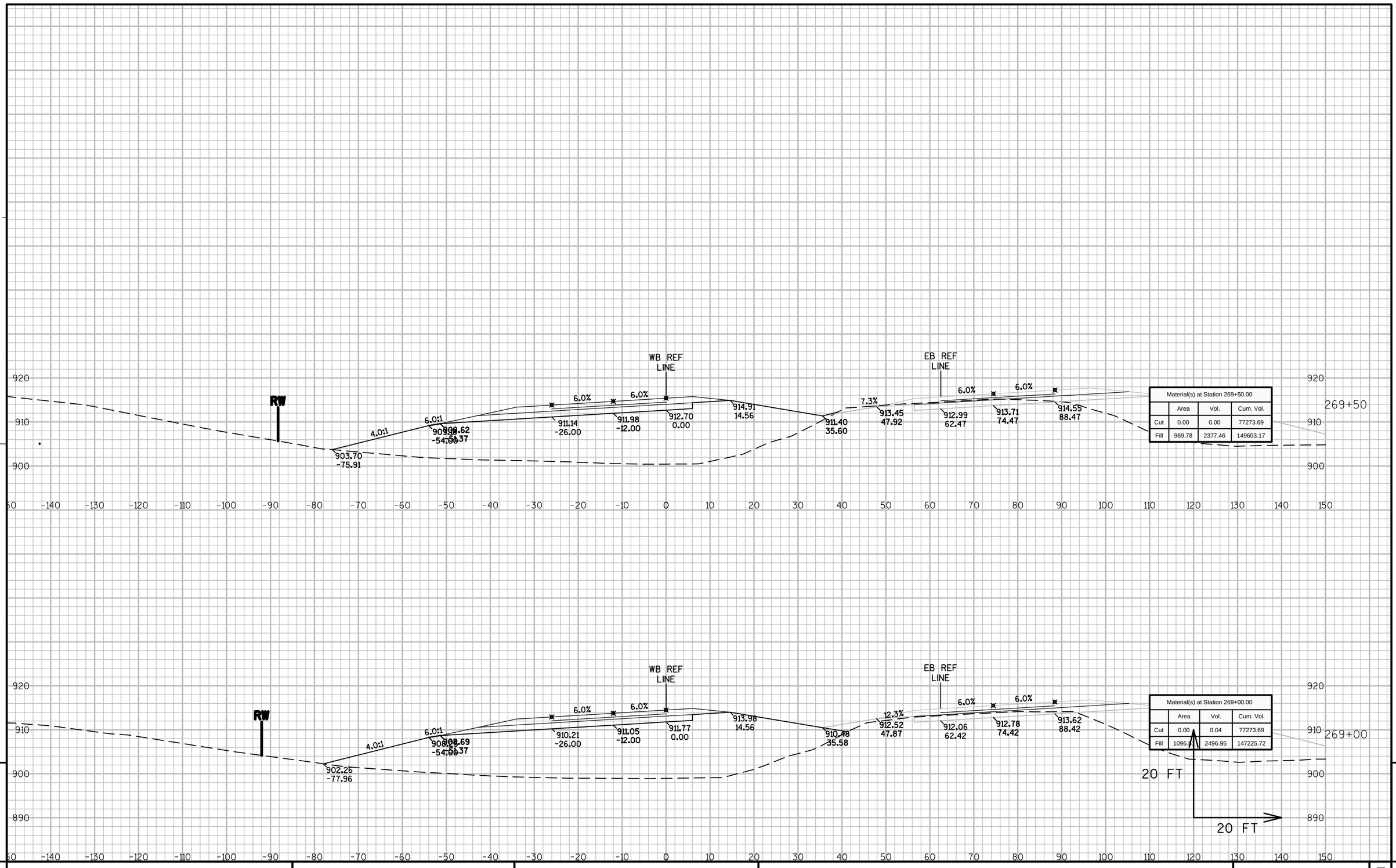
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 918	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-36

PLOT DATE : 9/26/2014 11:51 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

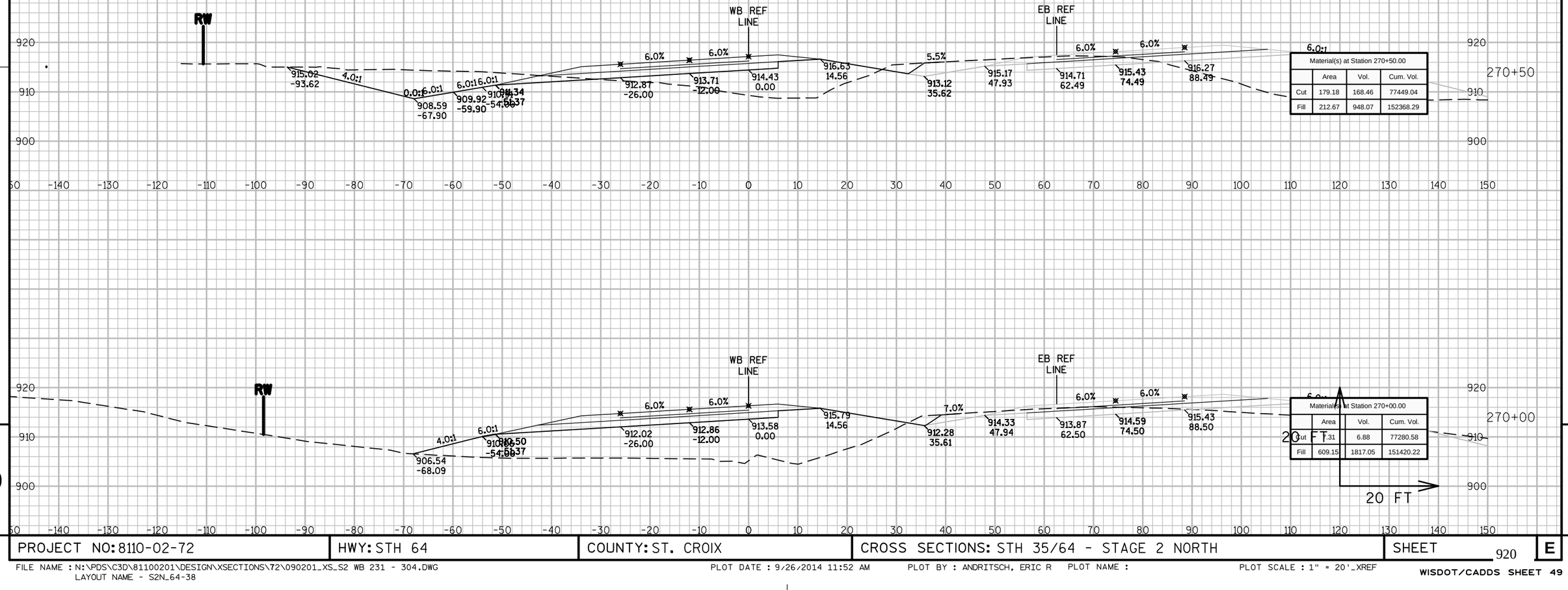
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 919	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-37

PLOT DATE : 9/26/2014 11:52 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



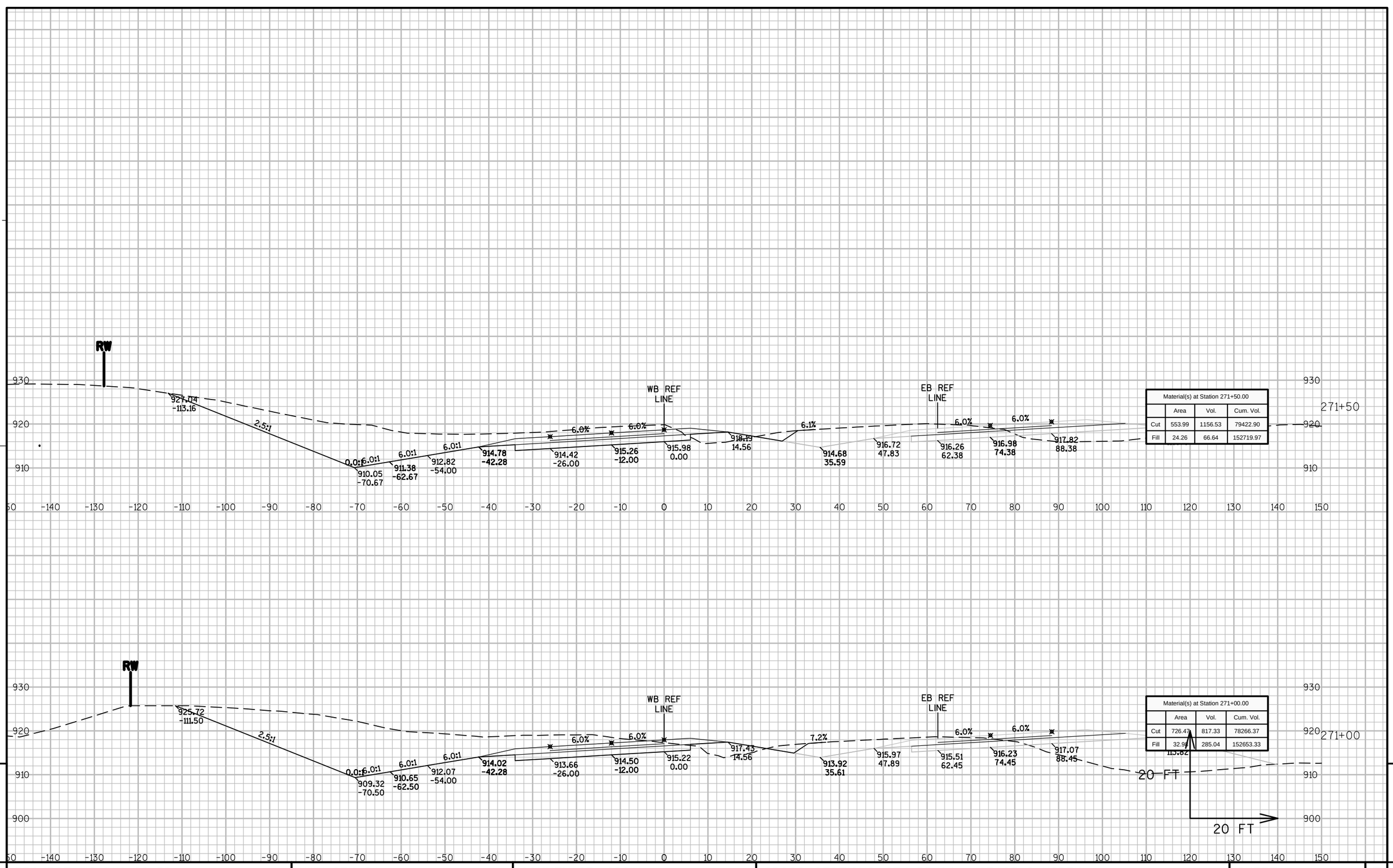
9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 920	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-38

PLOT DATE : 9/26/2014 11:52 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



9

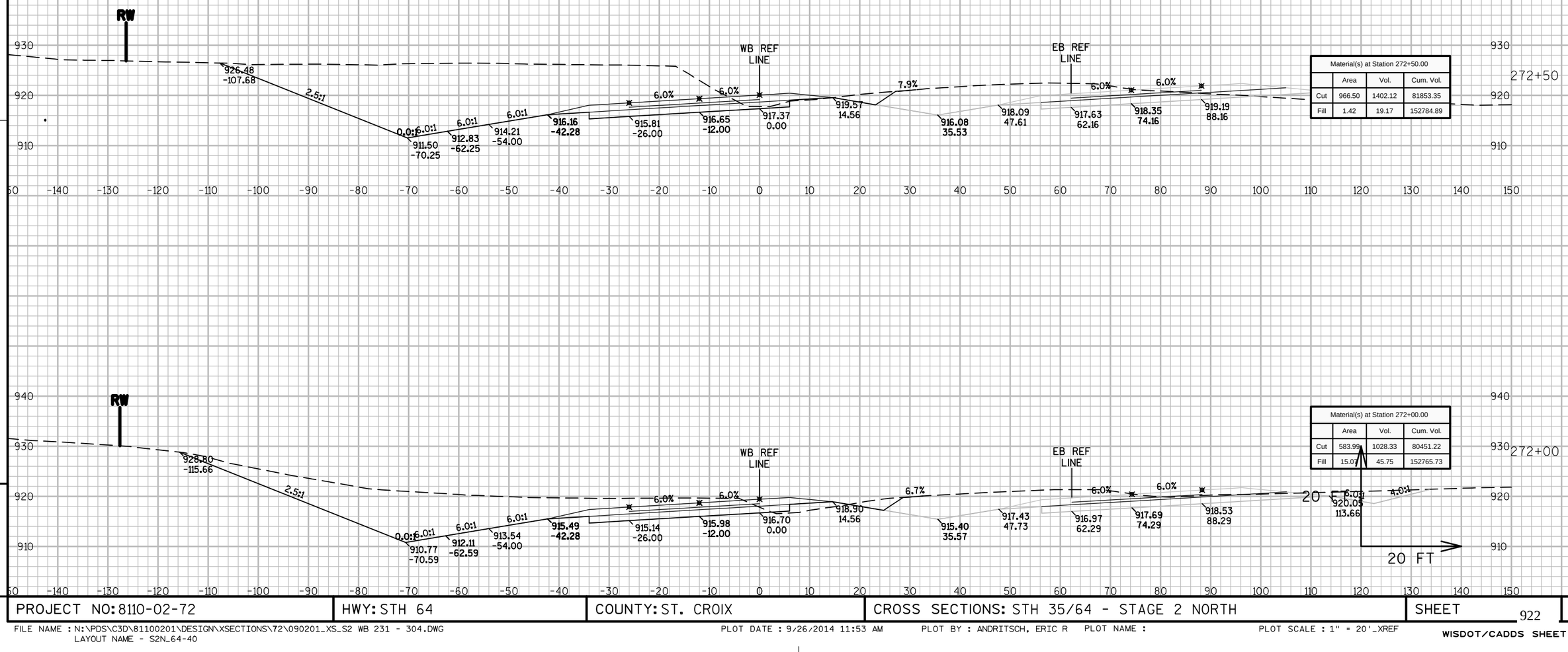
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 921	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-39

PLOT DATE : 9/26/2014 11:53 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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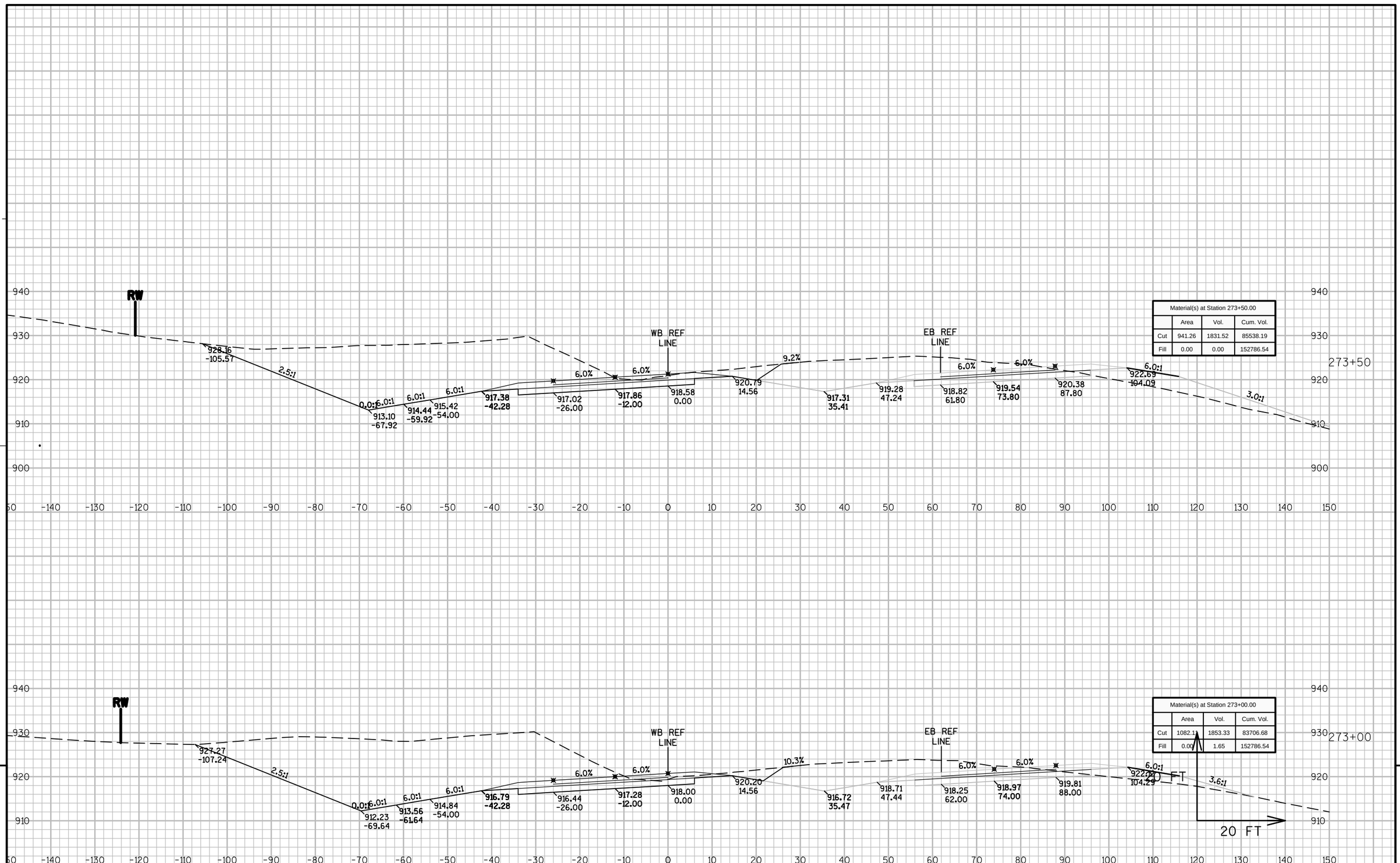
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 922	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-40

PLOT DATE : 9/26/2014 11:53 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

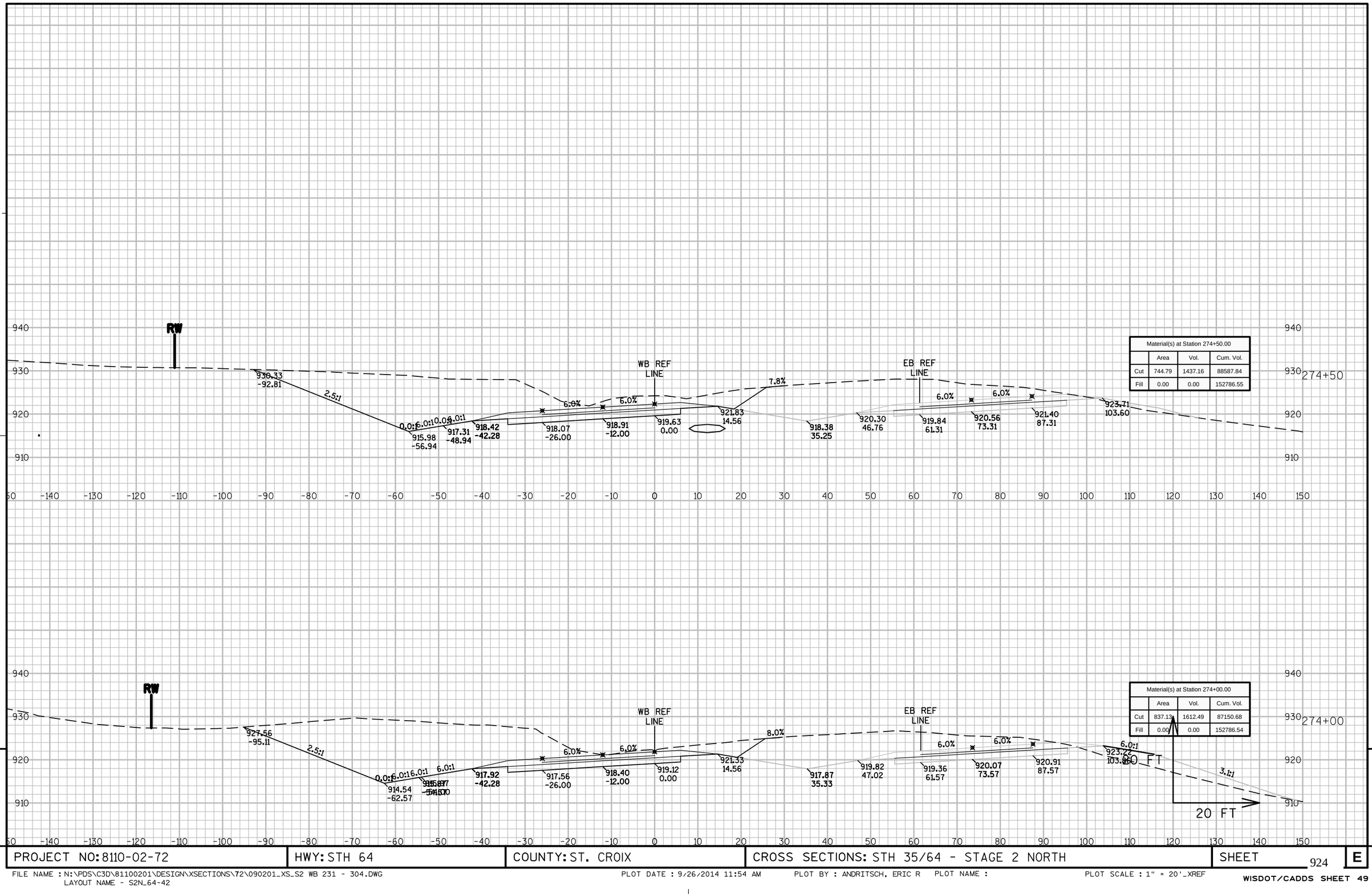
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 923	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-41

PLOT DATE : 9/26/2014 11:54 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

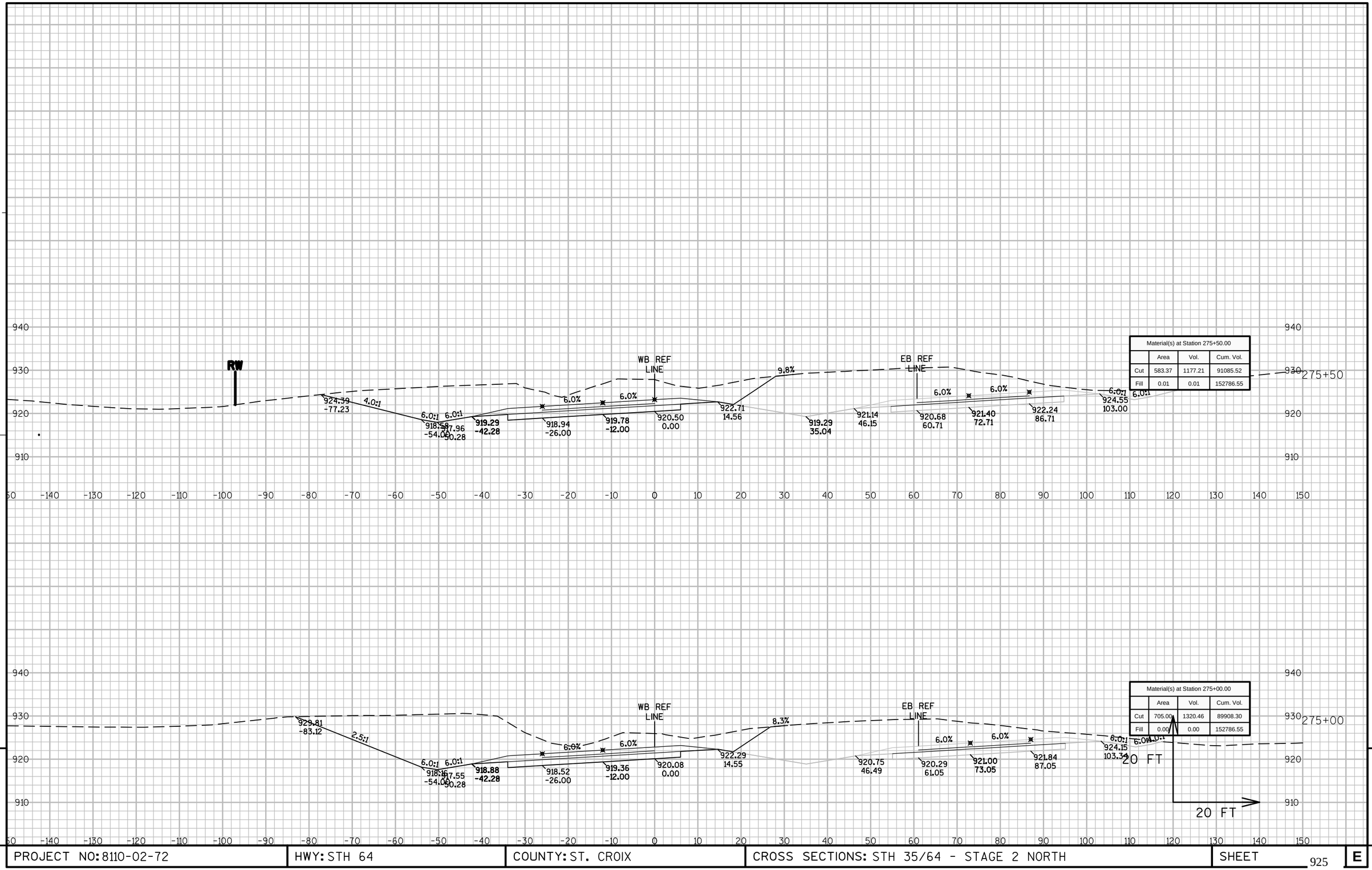


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 924	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-42

PLOT DATE : 9/26/2014 11:54 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

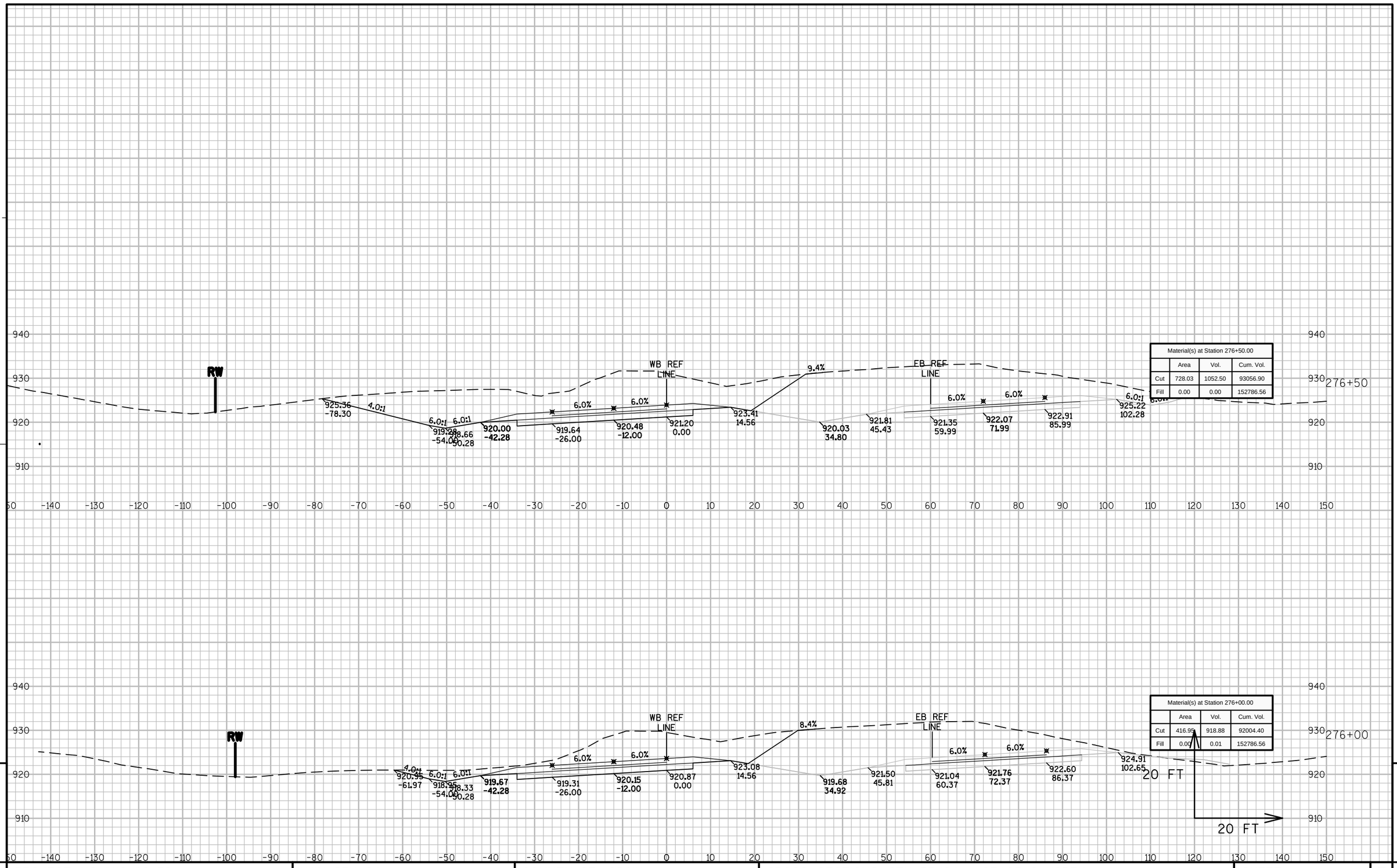
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 925	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-43

PLOT DATE : 9/26/2014 11:55 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



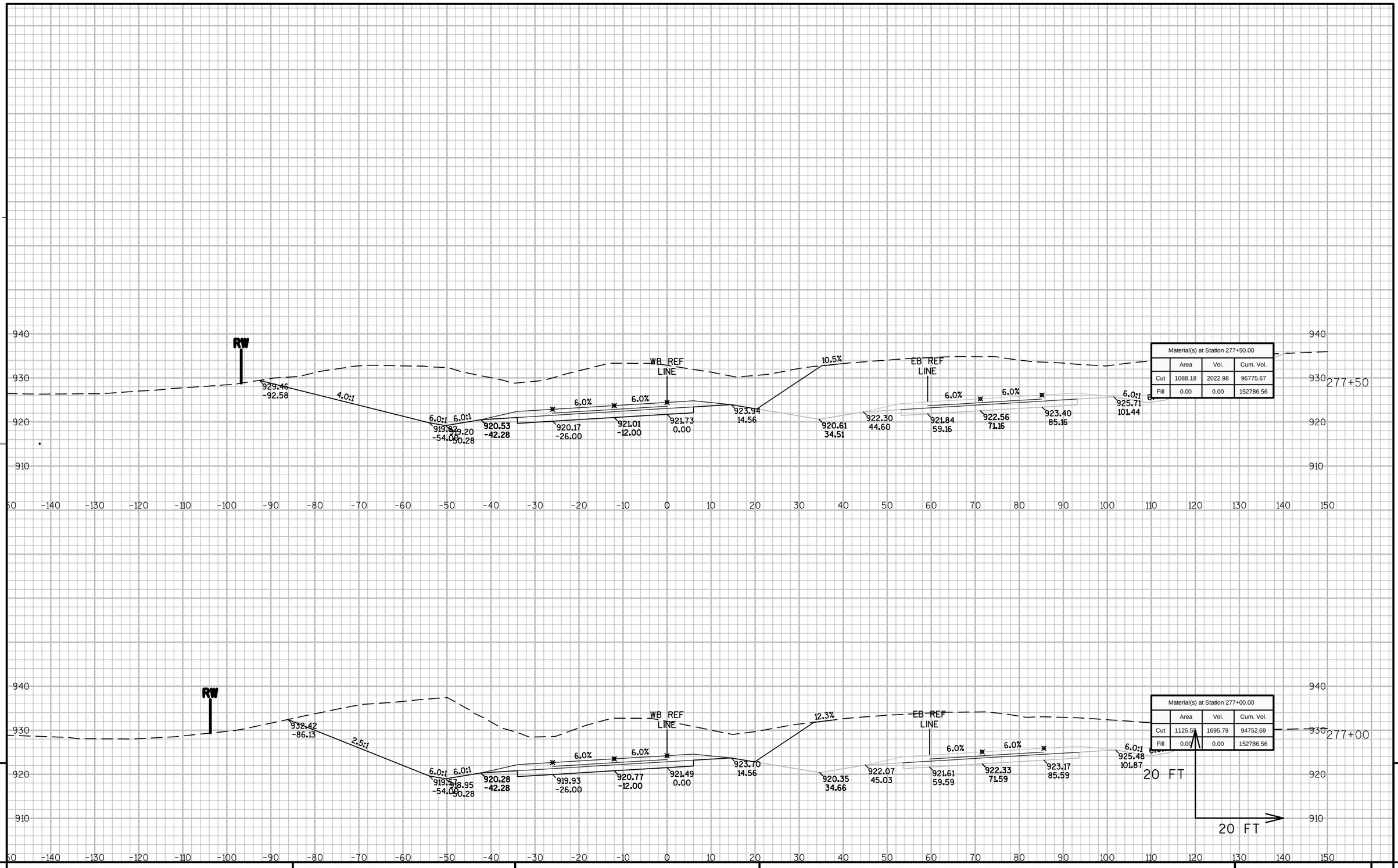
9

9

PROJECT NO: 8110-02-72 | HWY: STH 64 | COUNTY: ST. CROIX | CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH | SHEET 926 | E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-44

PLOT DATE : 9/26/2014 11:55 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



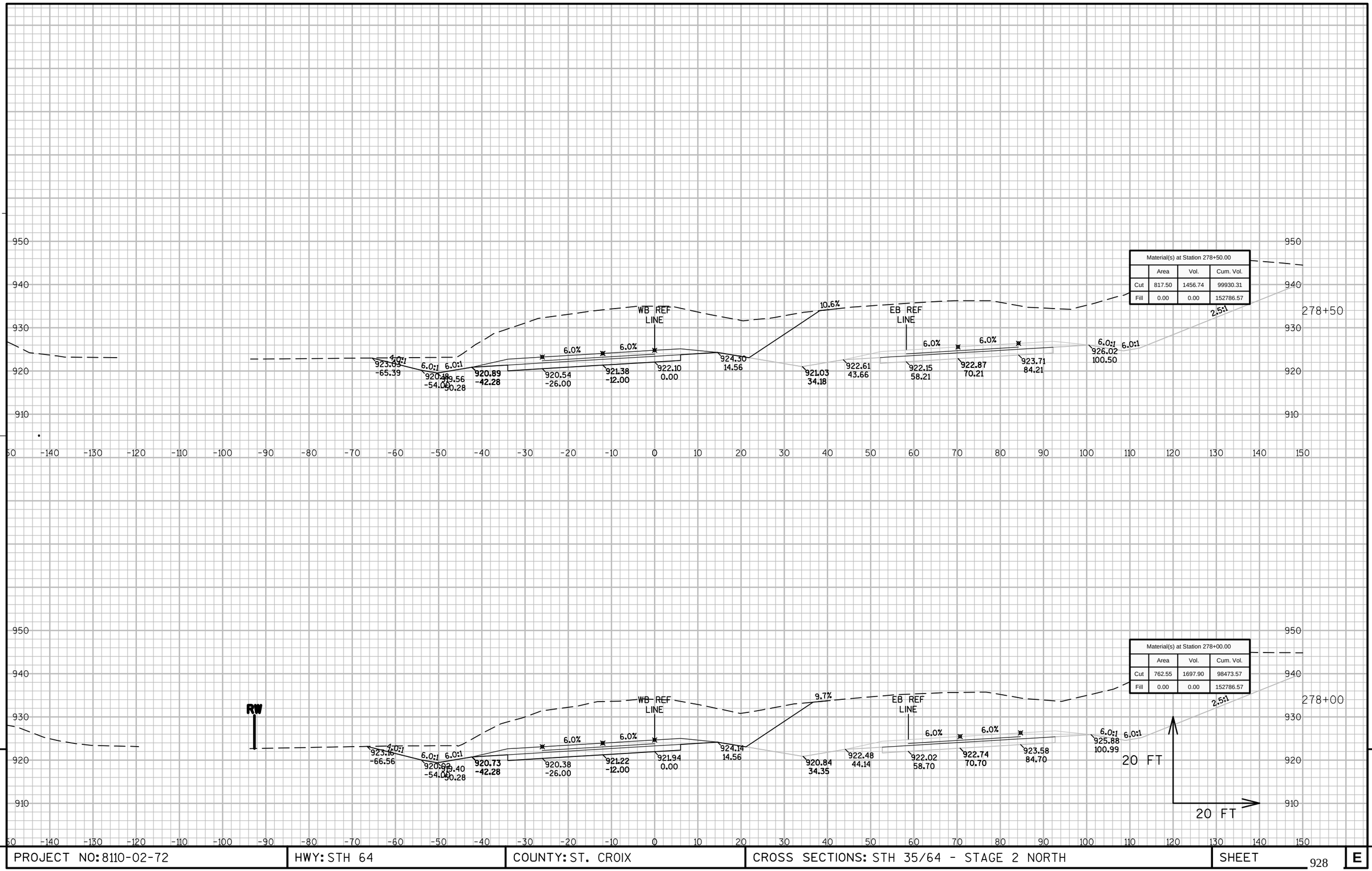
9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 927	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-45

PLOT DATE : 9/26/2014 11:56 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



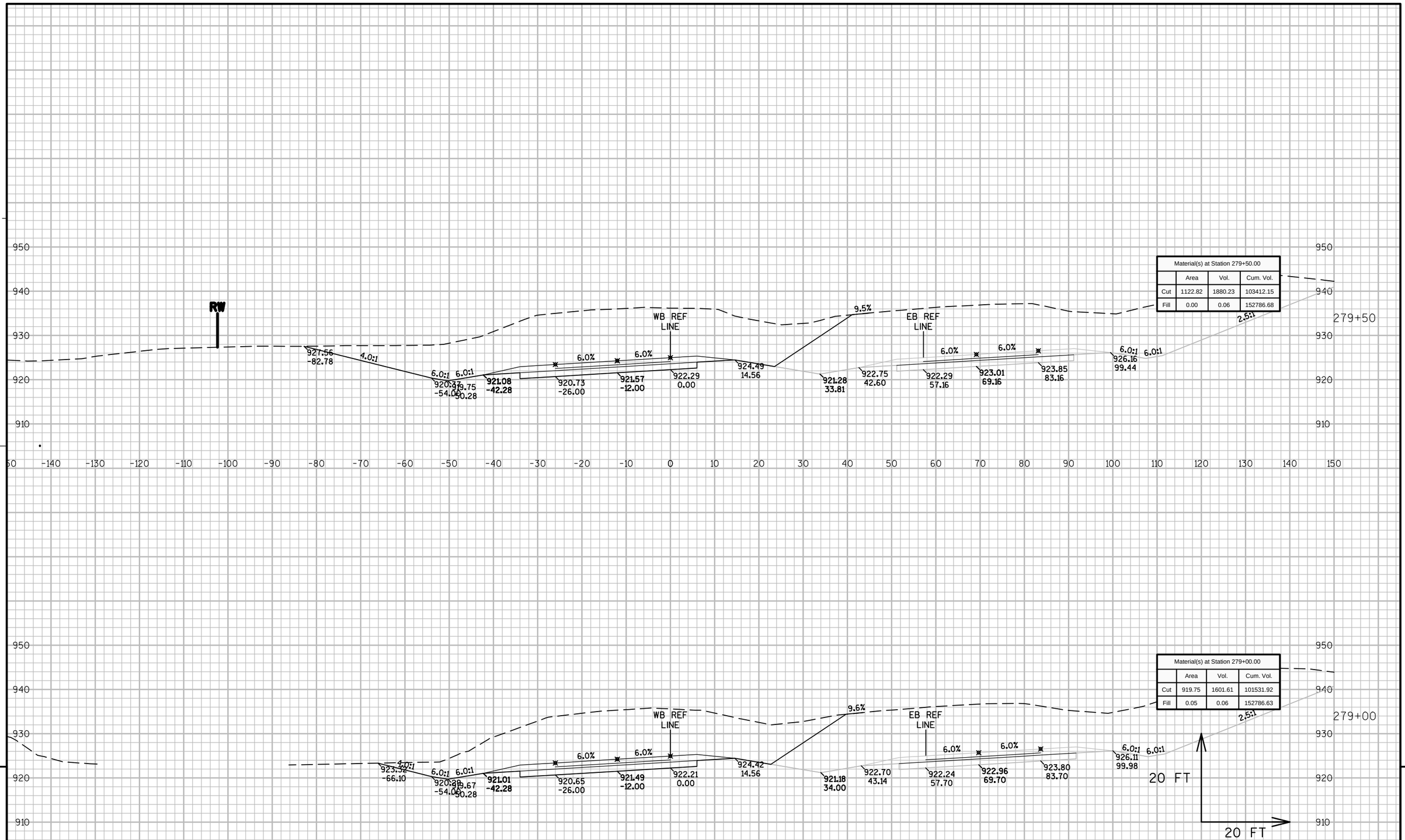
9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 928 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-46

PLOT DATE : 9/26/2014 11:56 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



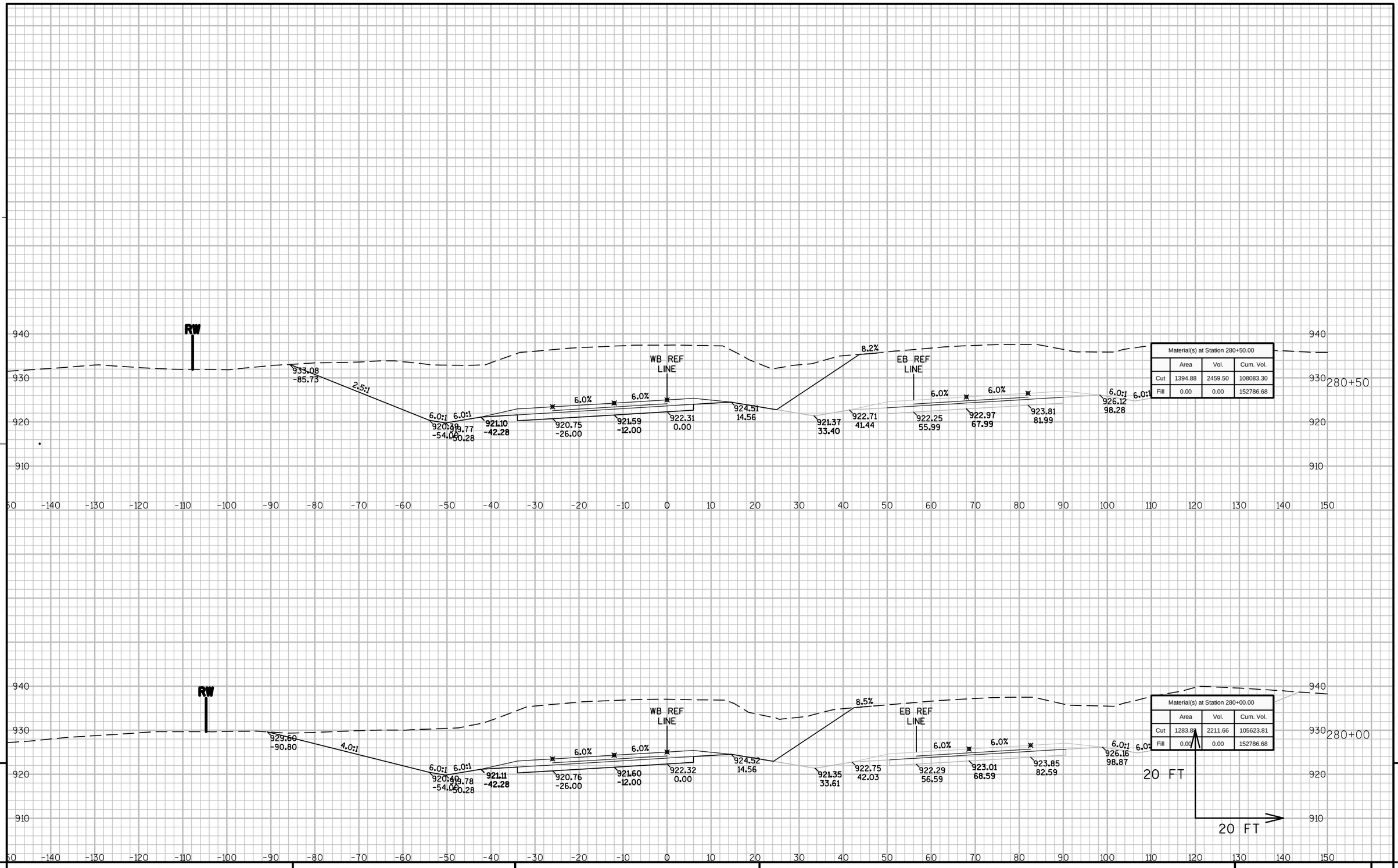
9 9

PROJECT NO: 8110-02-72 | HWY: STH 64 | COUNTY: ST. CROIX | CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH | SHEET 929 | E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-47

PLOT DATE : 9/26/2014 11:56 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

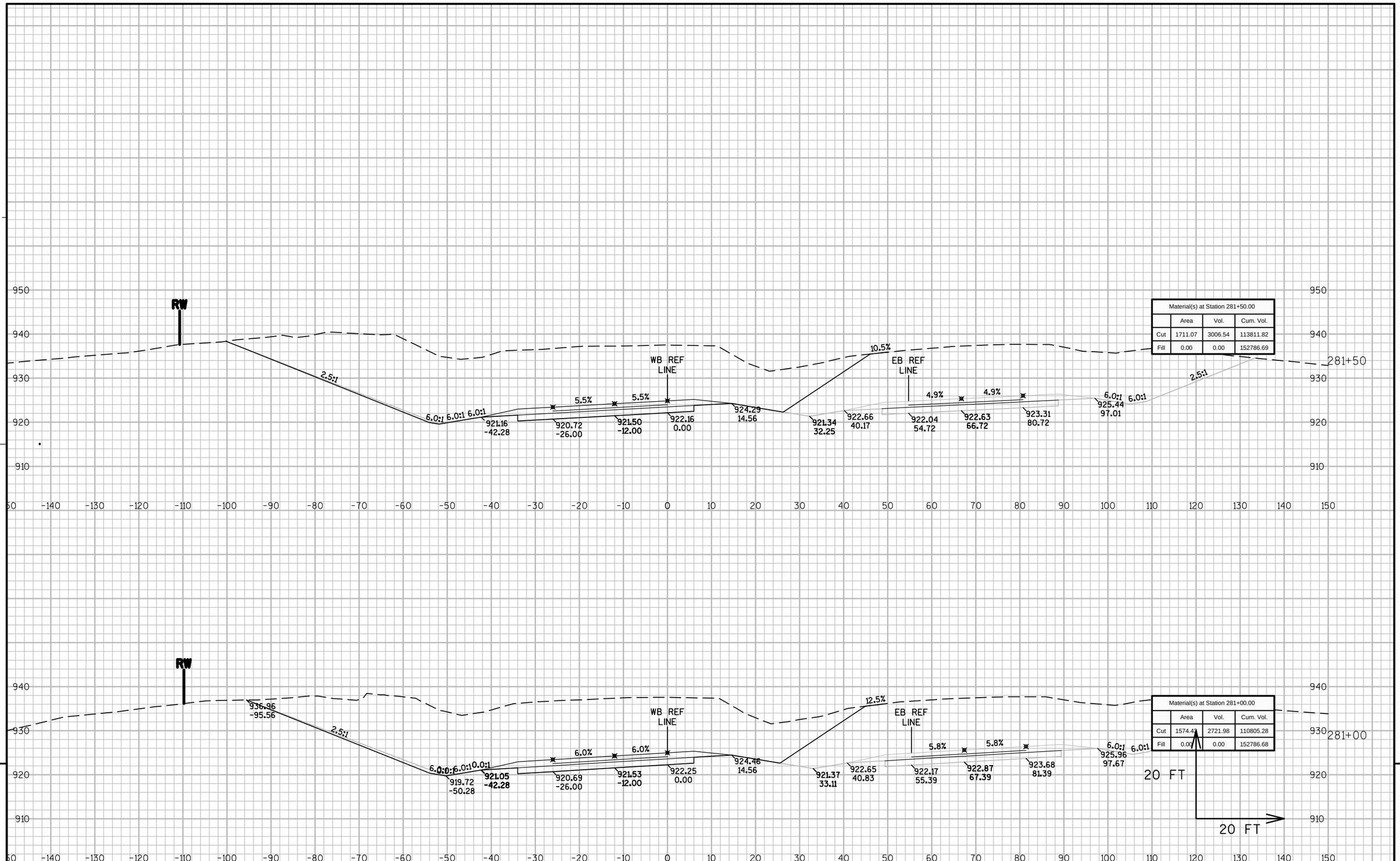
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-48

PLOT DATE : 9/26/2014 11:57 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



9

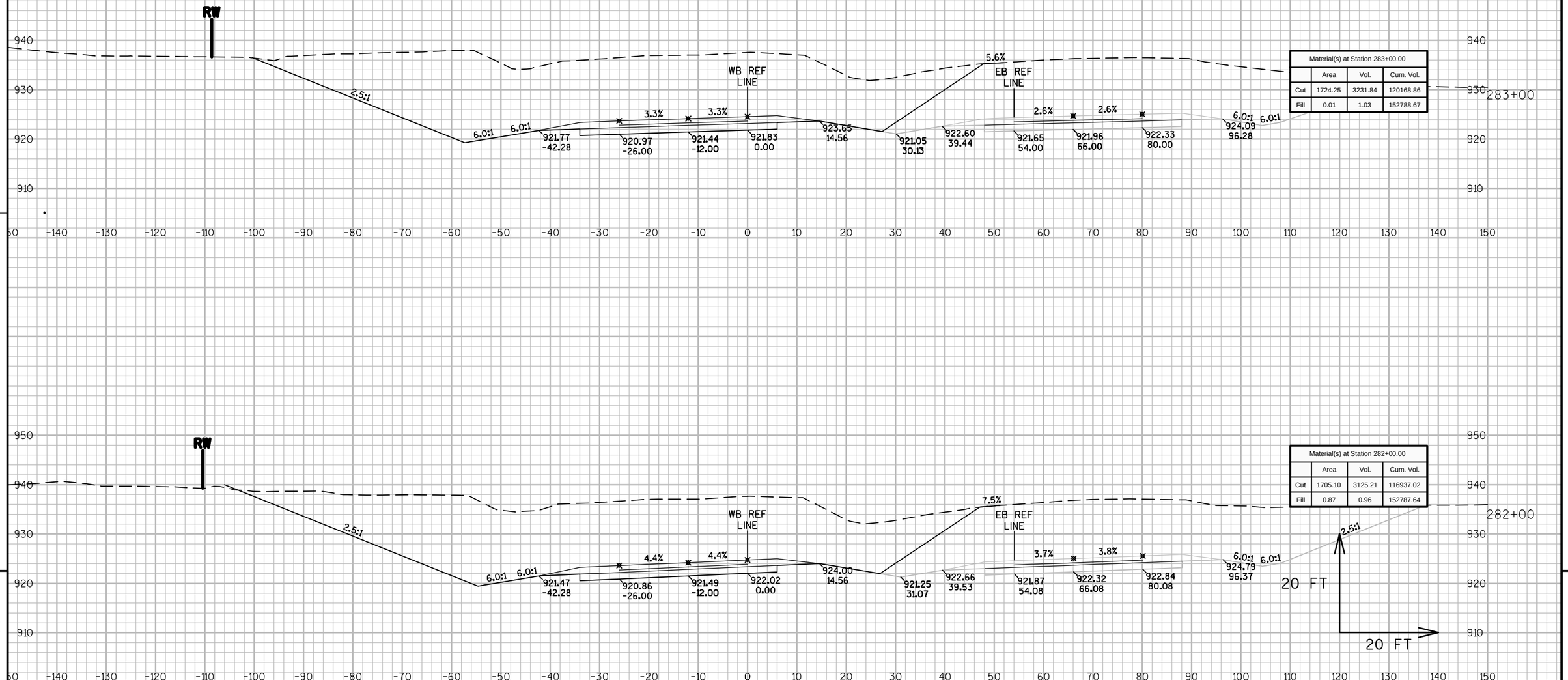
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 931	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-49

PLOT DATE : 9/26/2014 11:57 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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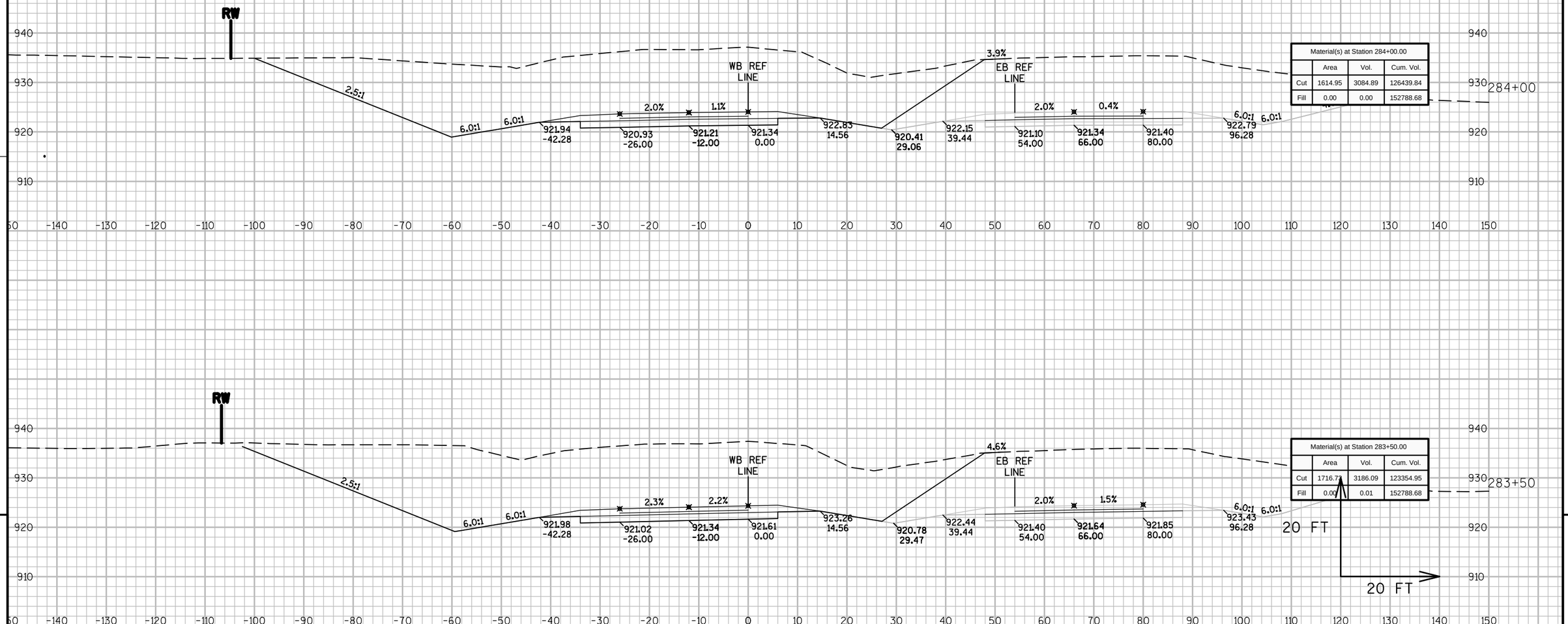
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 932	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-50

PLOT DATE : 9/26/2014 11:58 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



Material(s) at Station 284+00.00			
	Area	Vol.	Cum. Vol.
Cut	1614.95	3084.89	126439.84
Fill	0.00	0.00	152788.68

Material(s) at Station 283+50.00			
	Area	Vol.	Cum. Vol.
Cut	1716.73	3186.09	123354.95
Fill	0.00	0.01	152788.68

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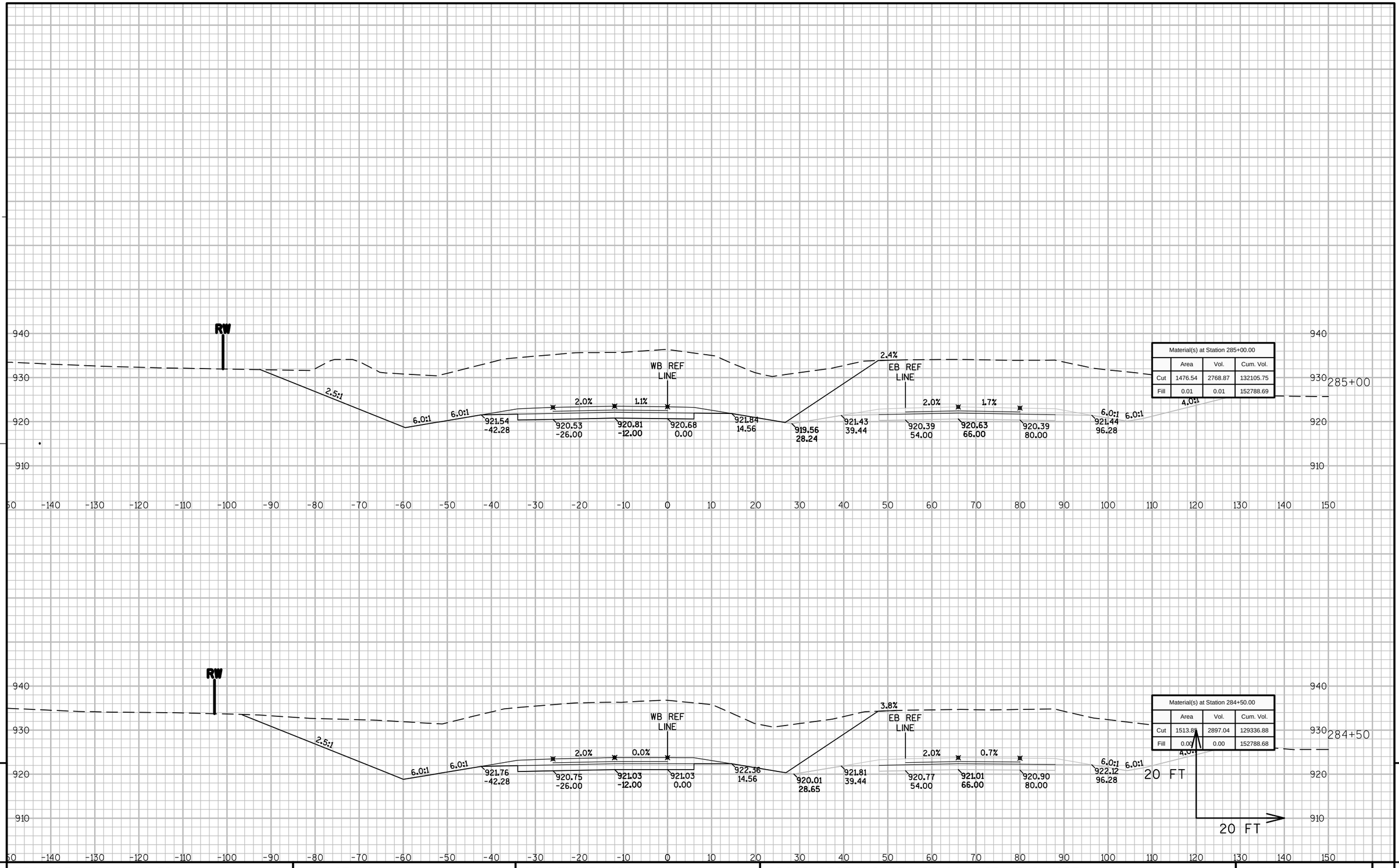
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 933	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-51
PLOT DATE : 9/26/2014 11:58 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



Material(s) at Station 285+00.00			
	Area	Vol.	Cum. Vol.
Cut	1476.54	2768.87	132105.75
Fill	0.01	0.01	152788.69

Material(s) at Station 284+50.00			
	Area	Vol.	Cum. Vol.
Cut	1513.85	2897.04	129336.88
Fill	0.00	0.00	152788.68

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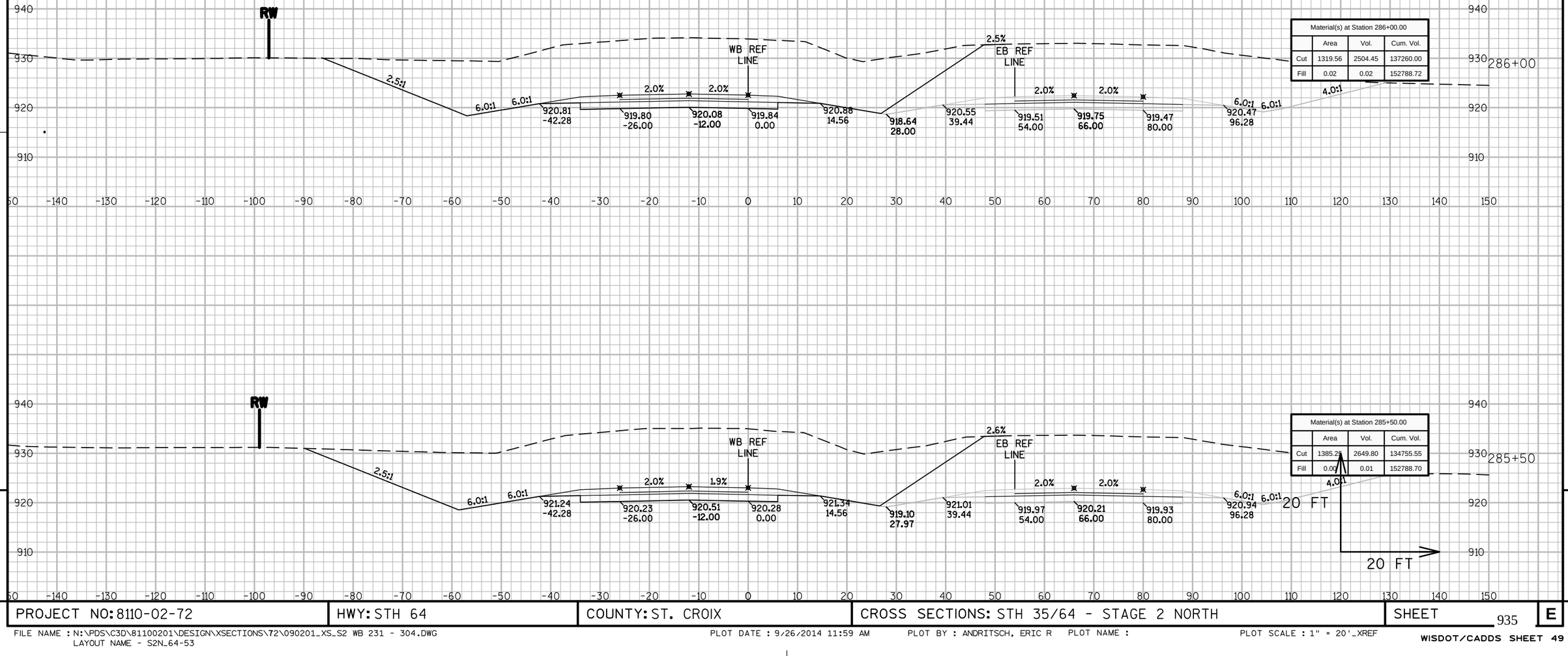
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 934	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-52

PLOT DATE : 9/26/2014 11:59 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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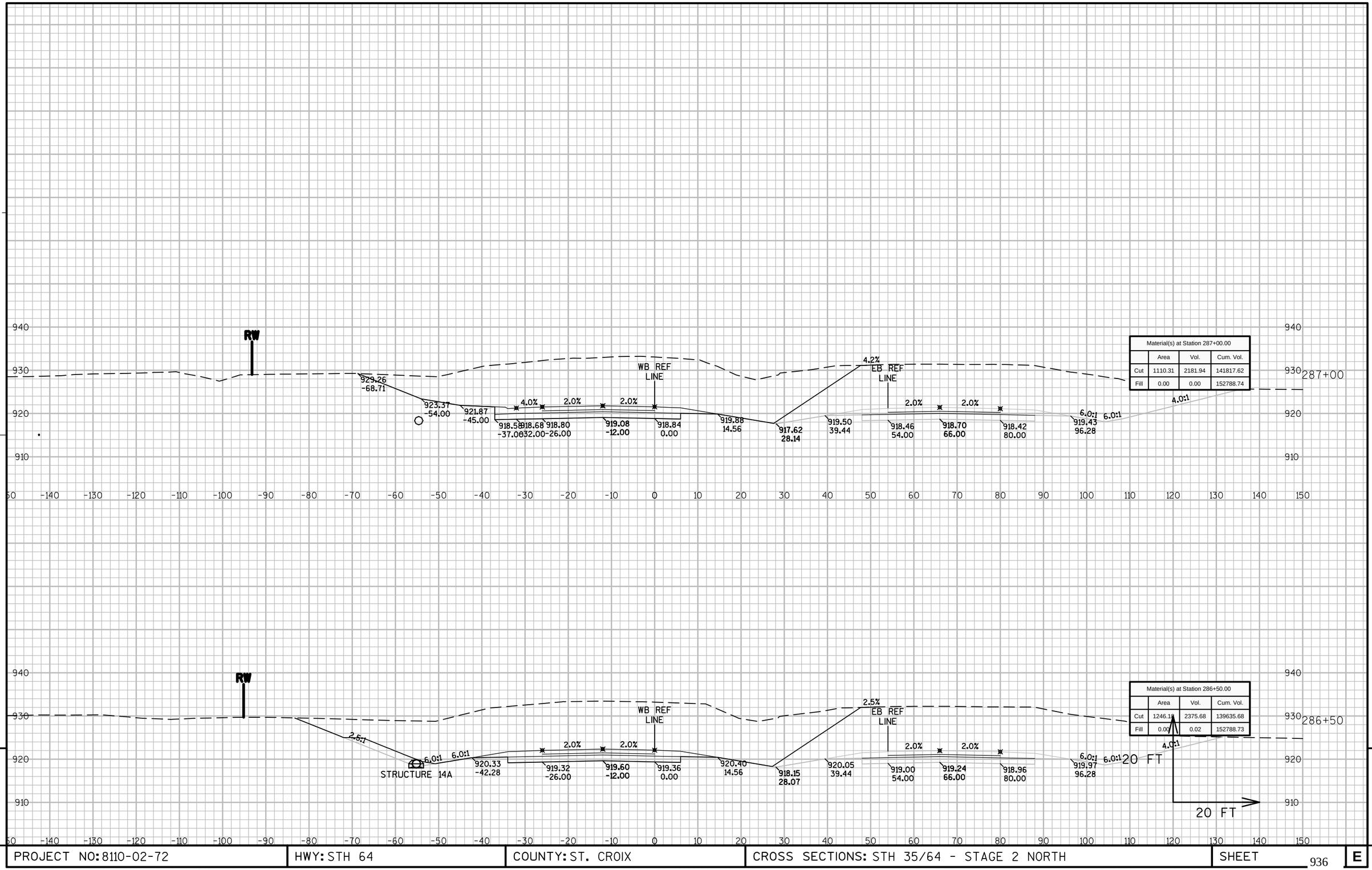
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 935	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-53

PLOT DATE : 9/26/2014 11:59 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF



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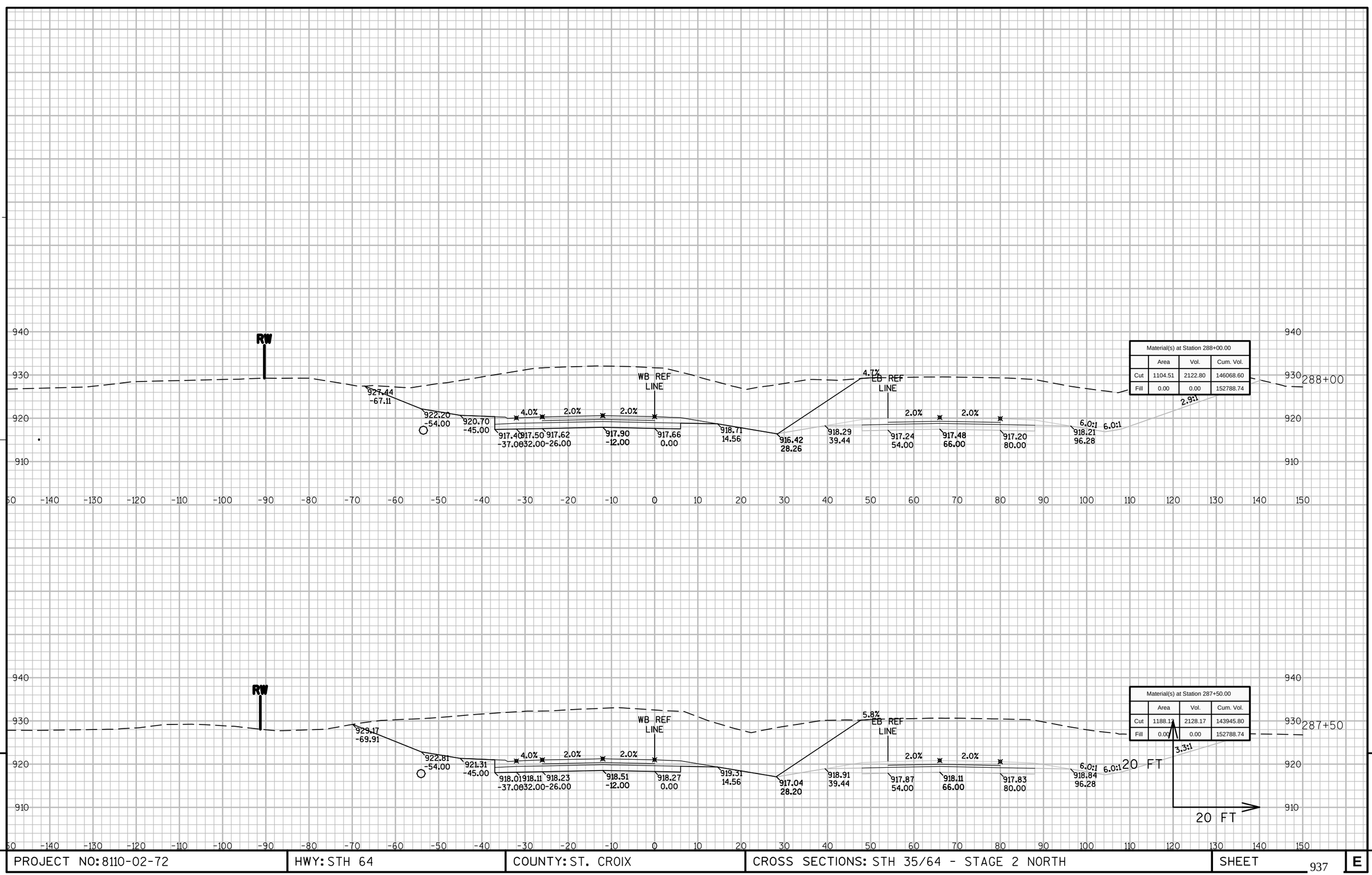
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 936	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-54
PLOT DATE : 9/26/2014 12:00 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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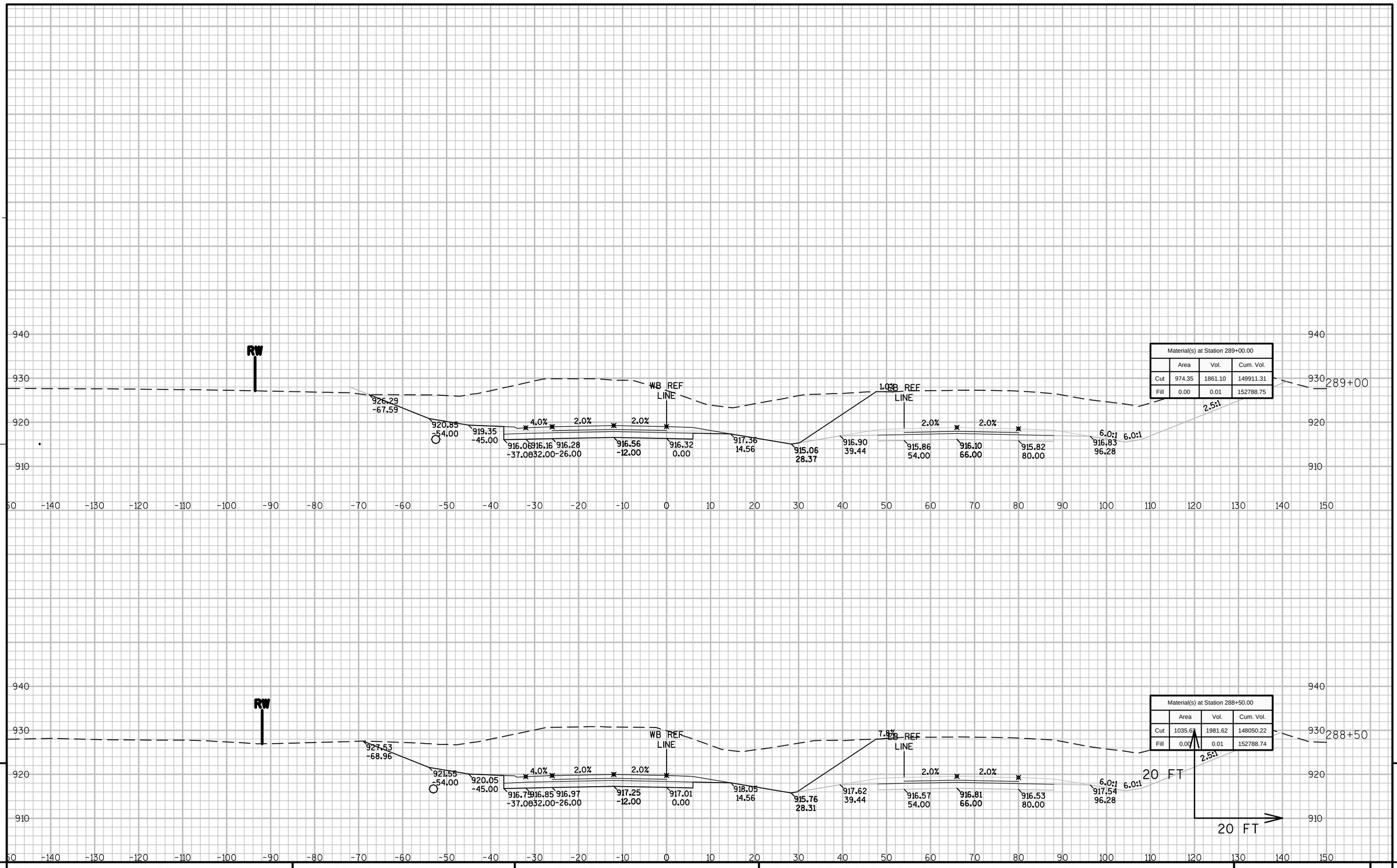
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 937	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-55

PLOT DATE : 9/26/2014 12:00 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49



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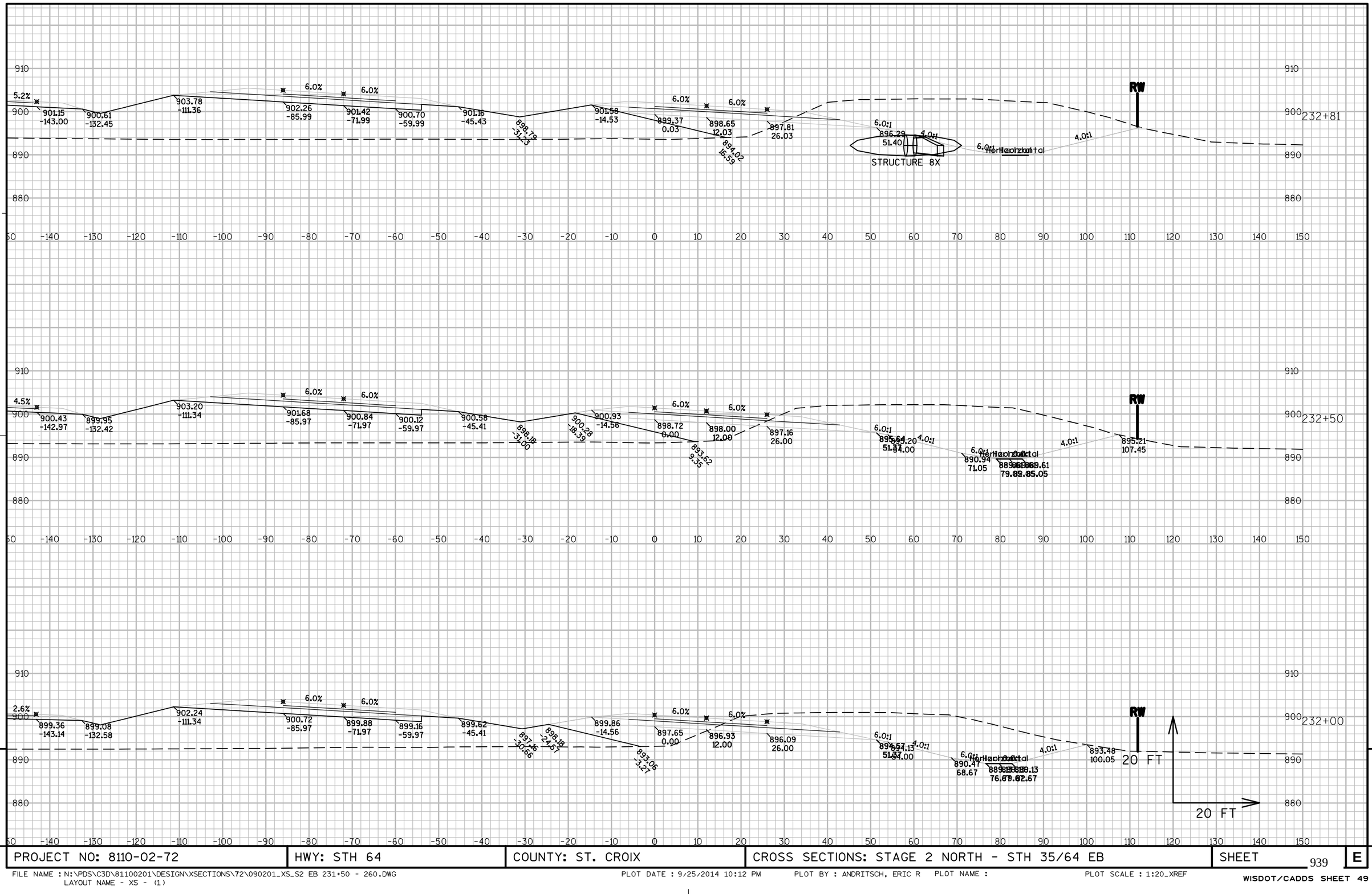
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 35/64 - STAGE 2 NORTH	SHEET 938	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 WB 231 - 304.DWG
LAYOUT NAME - S2N_64-56

PLOT DATE : 9/26/2014 12:00 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

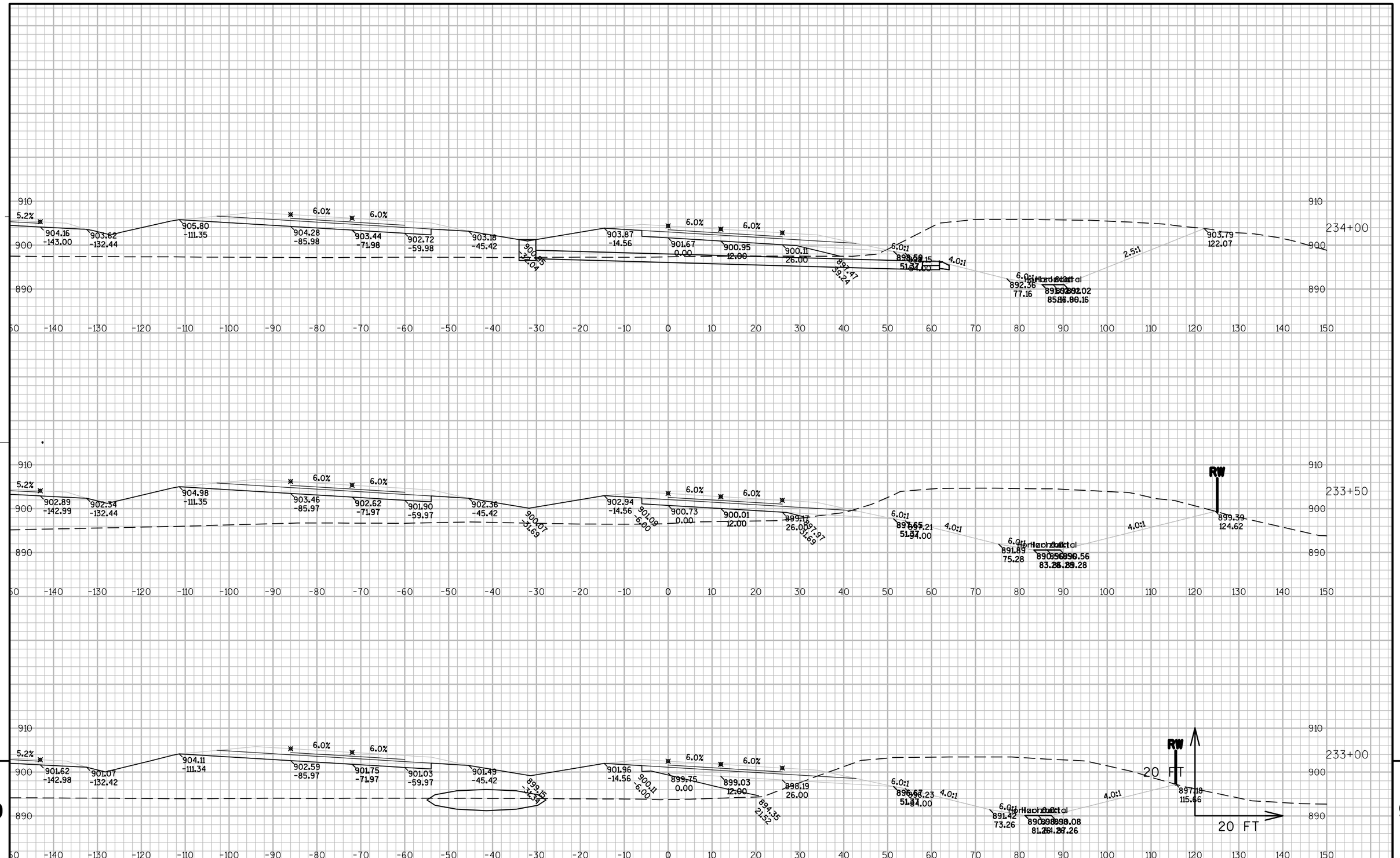


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 939	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (1)

PLOT DATE : 9/25/2014 10:12 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

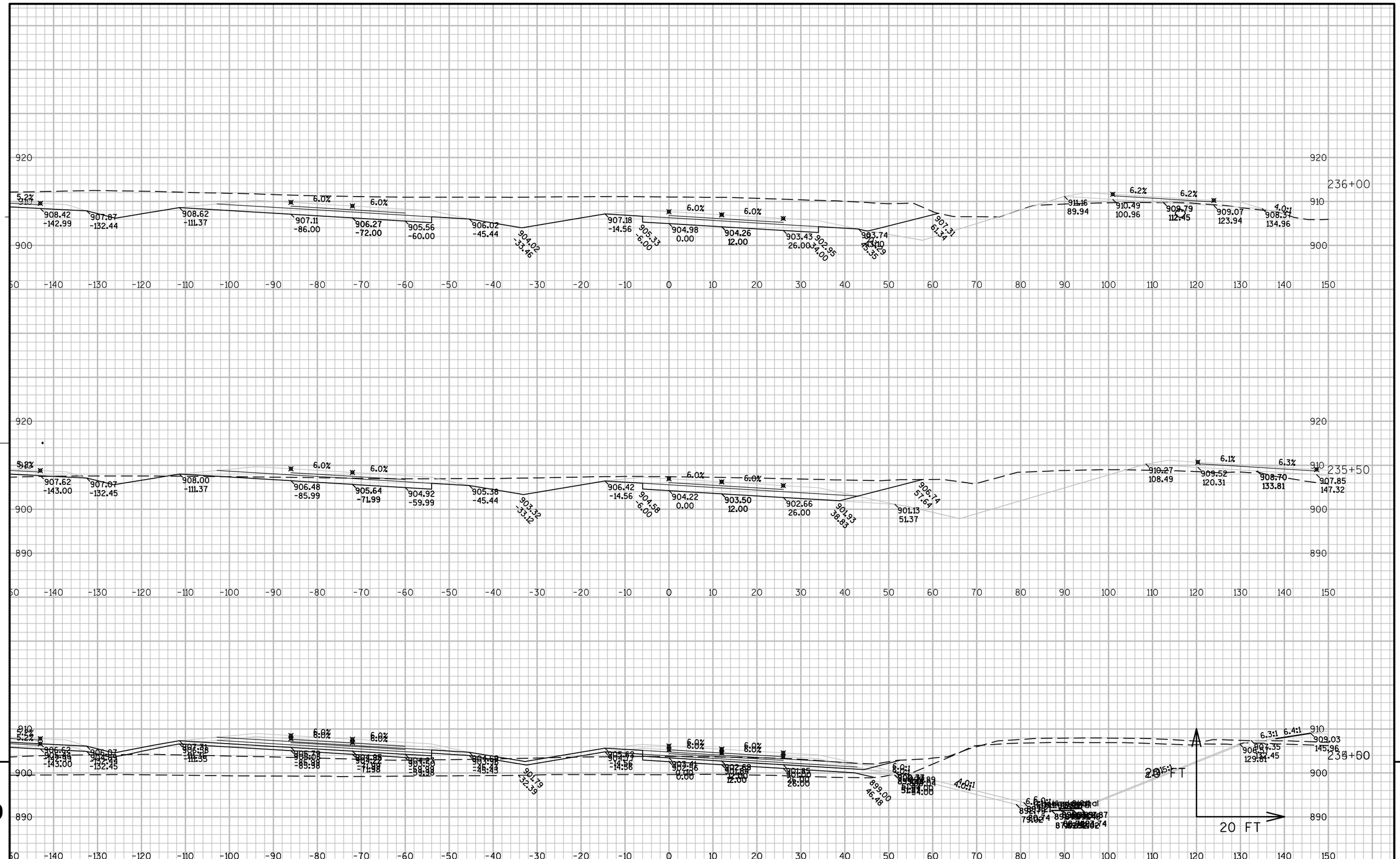


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 940	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (2)

PLOT DATE : 9/25/2014 10:12 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

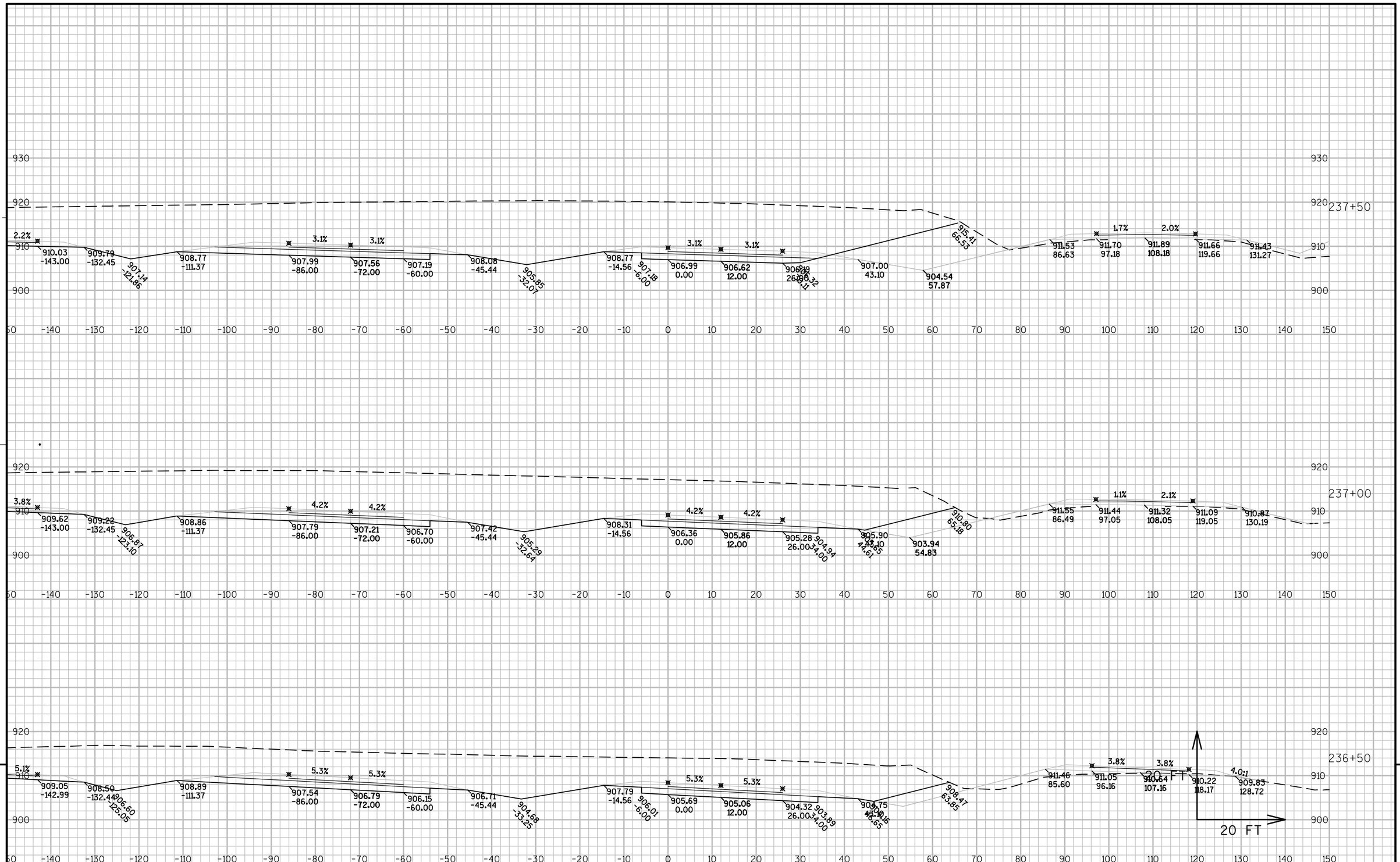


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 941 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (3)

PLOT DATE : 9/25/2014 10:13 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

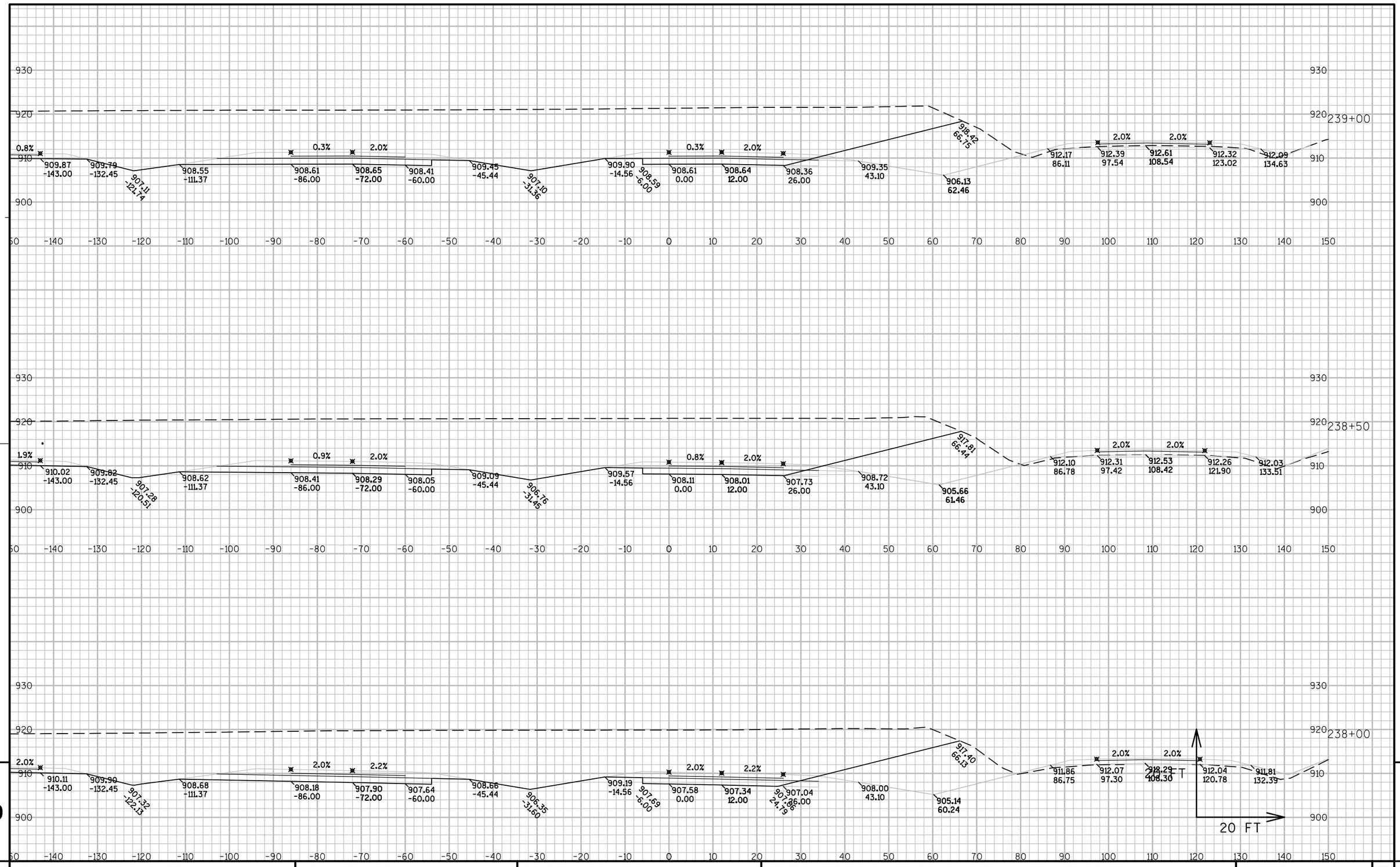


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 942	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (4)

PLOT DATE : 9/25/2014 10:13 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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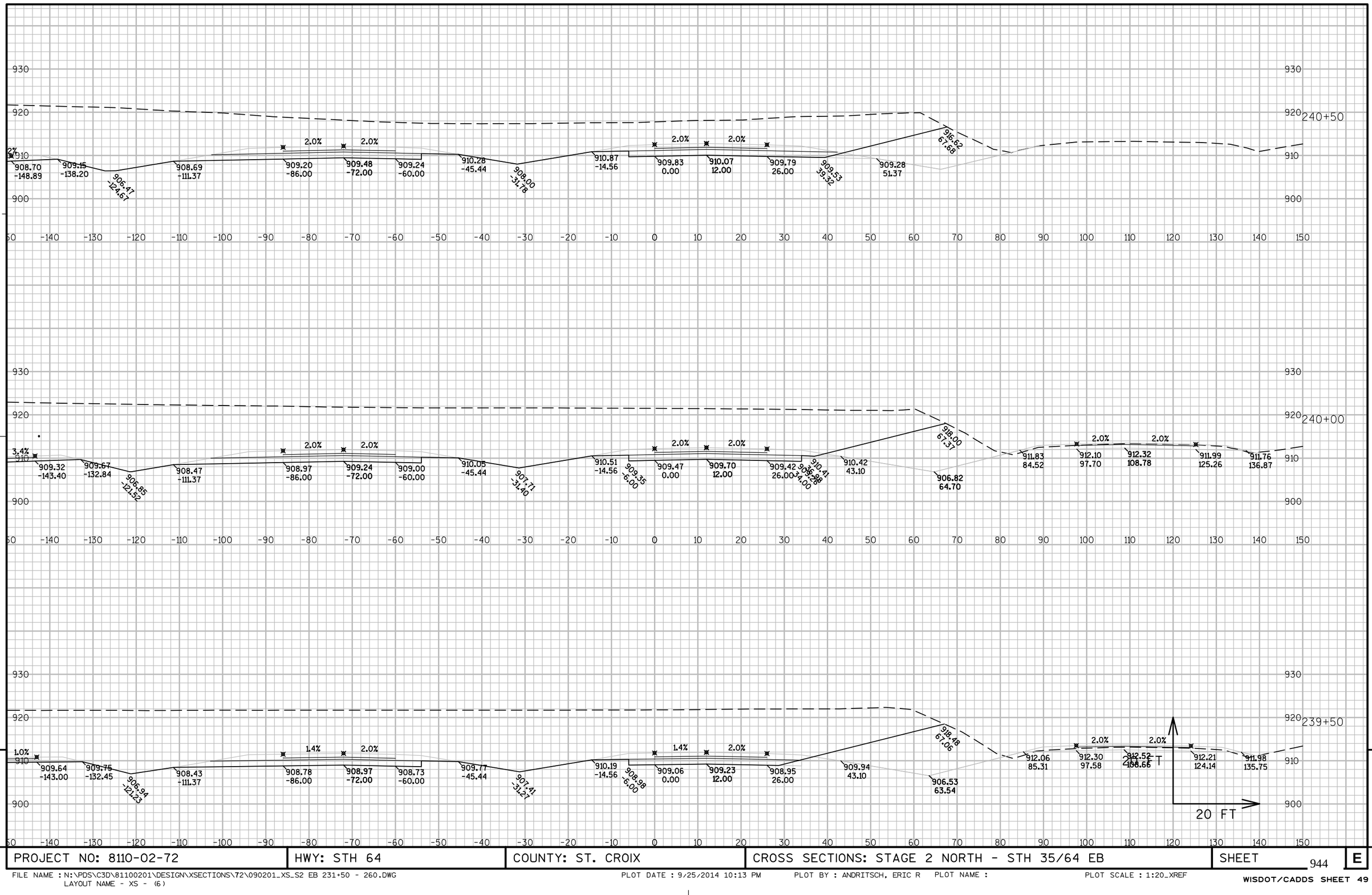
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 943	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (5)

PLOT DATE : 9/25/2014 10:13 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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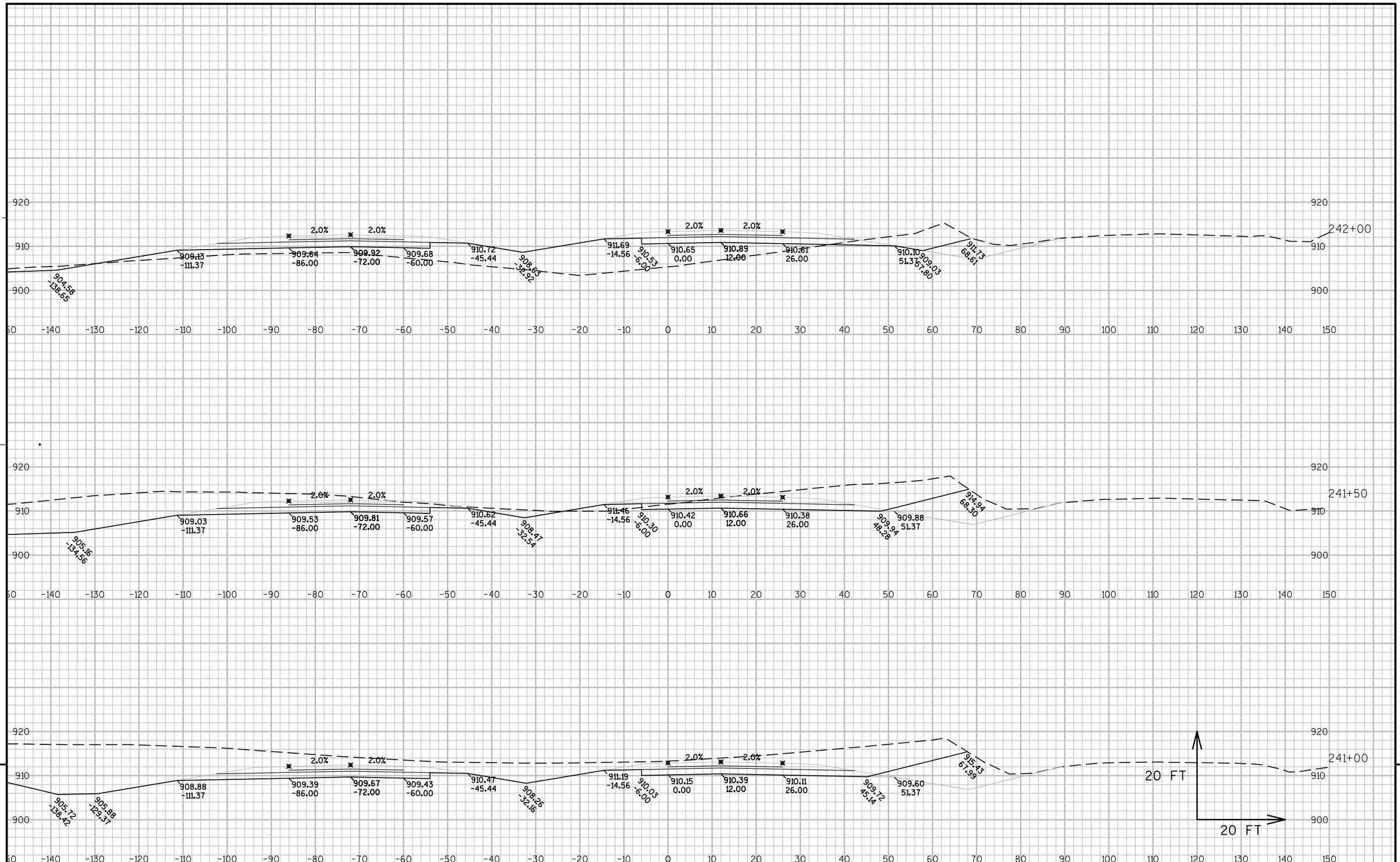
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 944	E

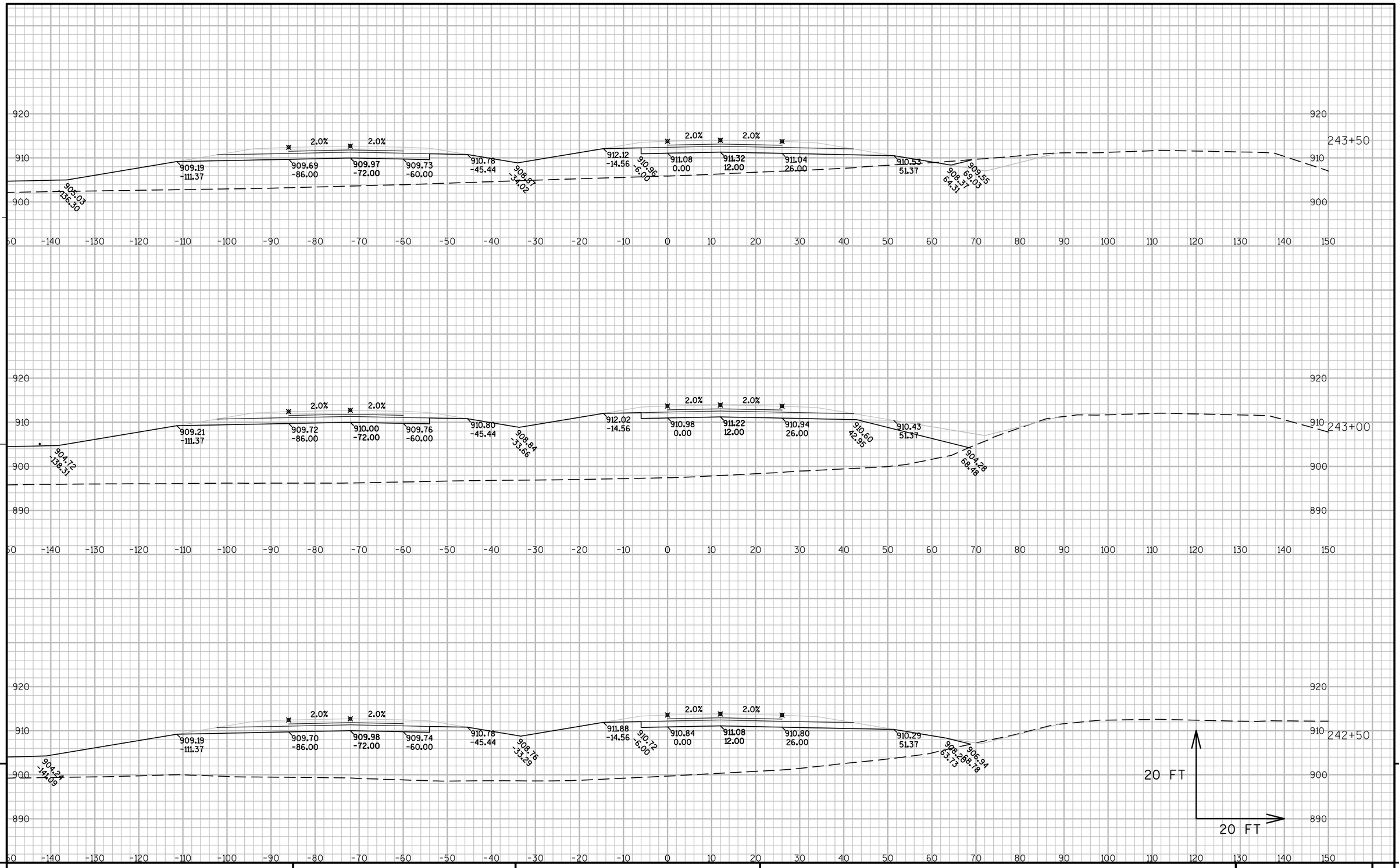
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (6)

PLOT DATE : 9/25/2014 10:13 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

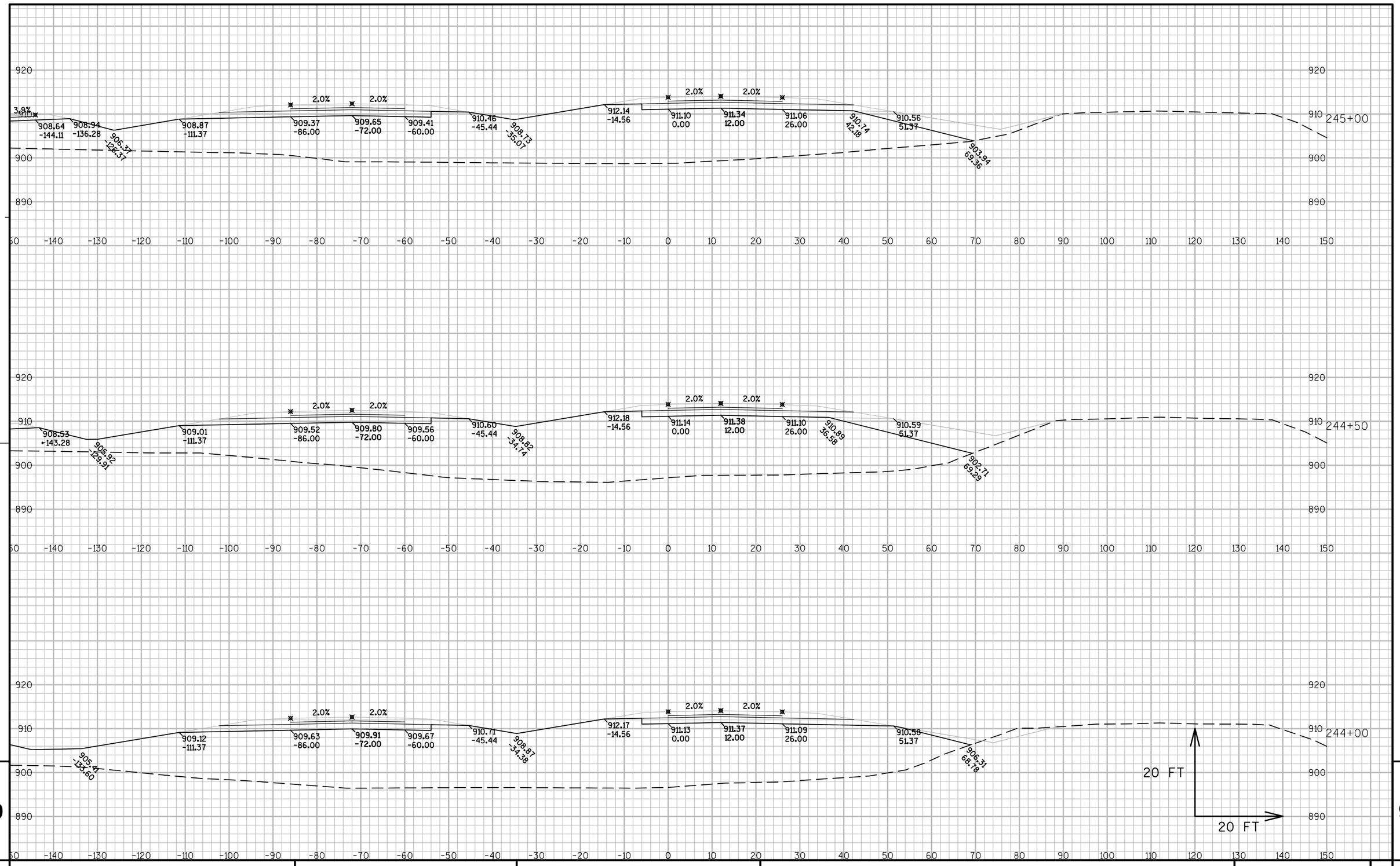


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 945 E



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 946	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (8)
PLOT DATE : 9/25/2014 10:14 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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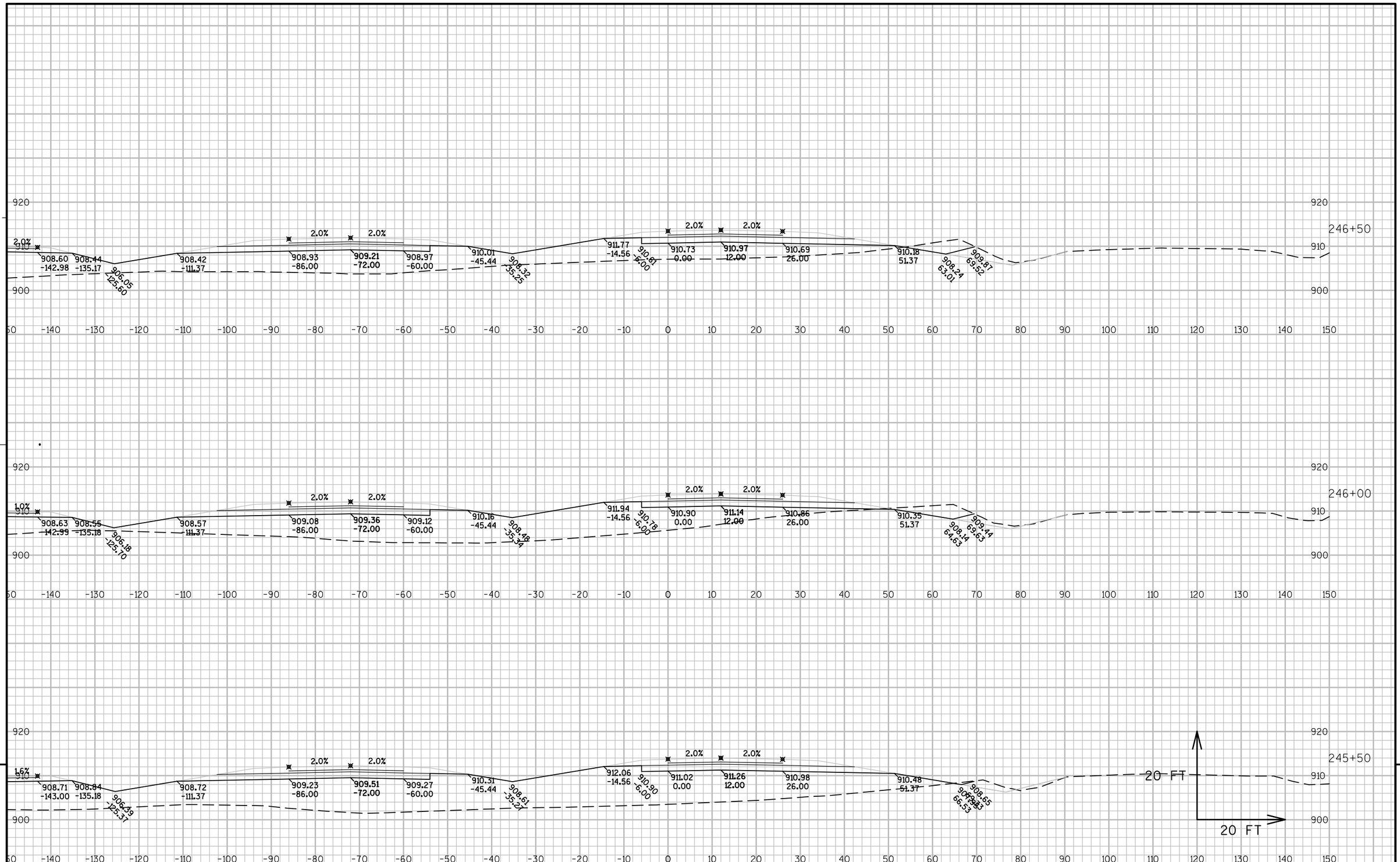
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 947	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (9)

PLOT DATE : 9/25/2014 10:14 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

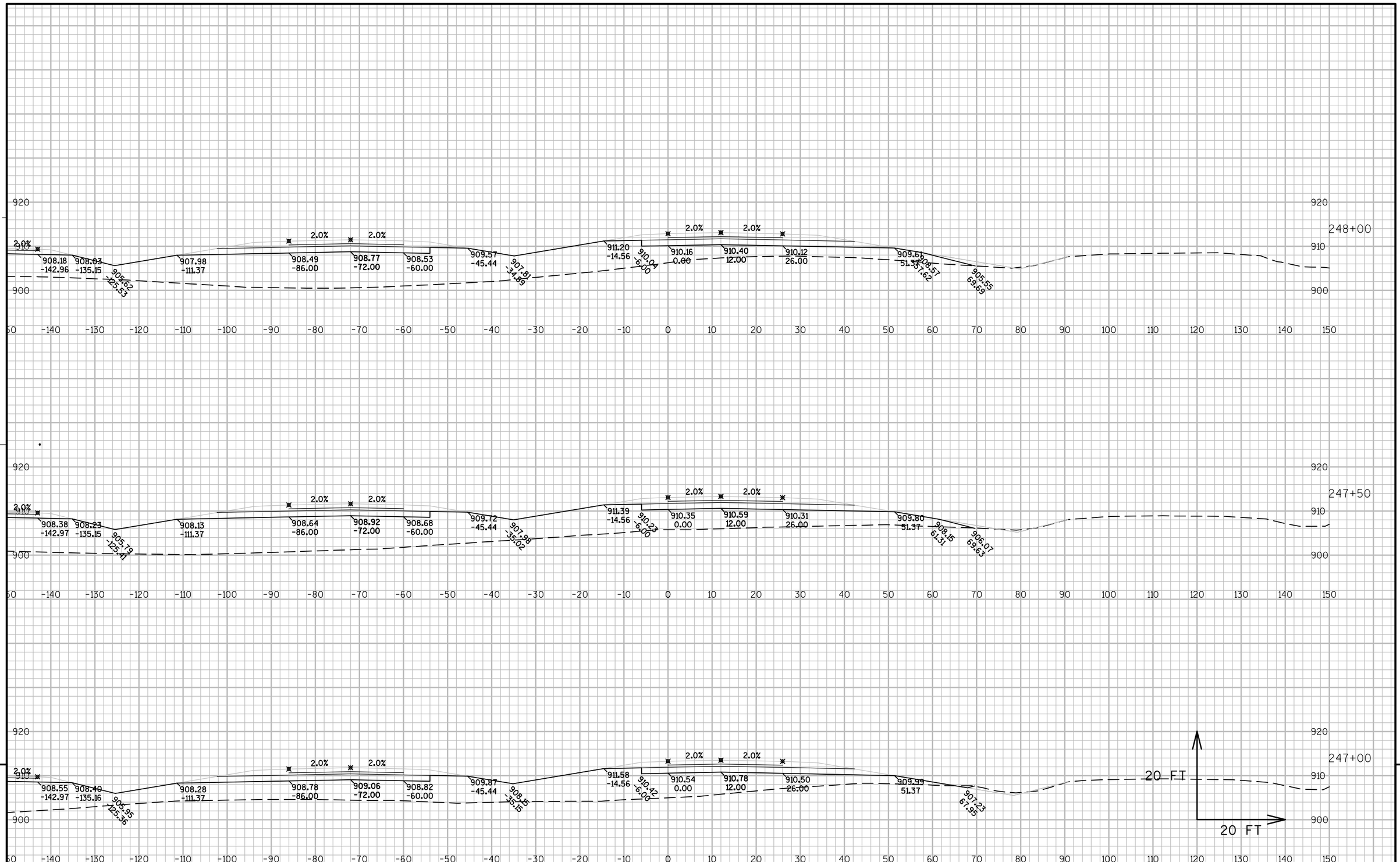


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 948	E

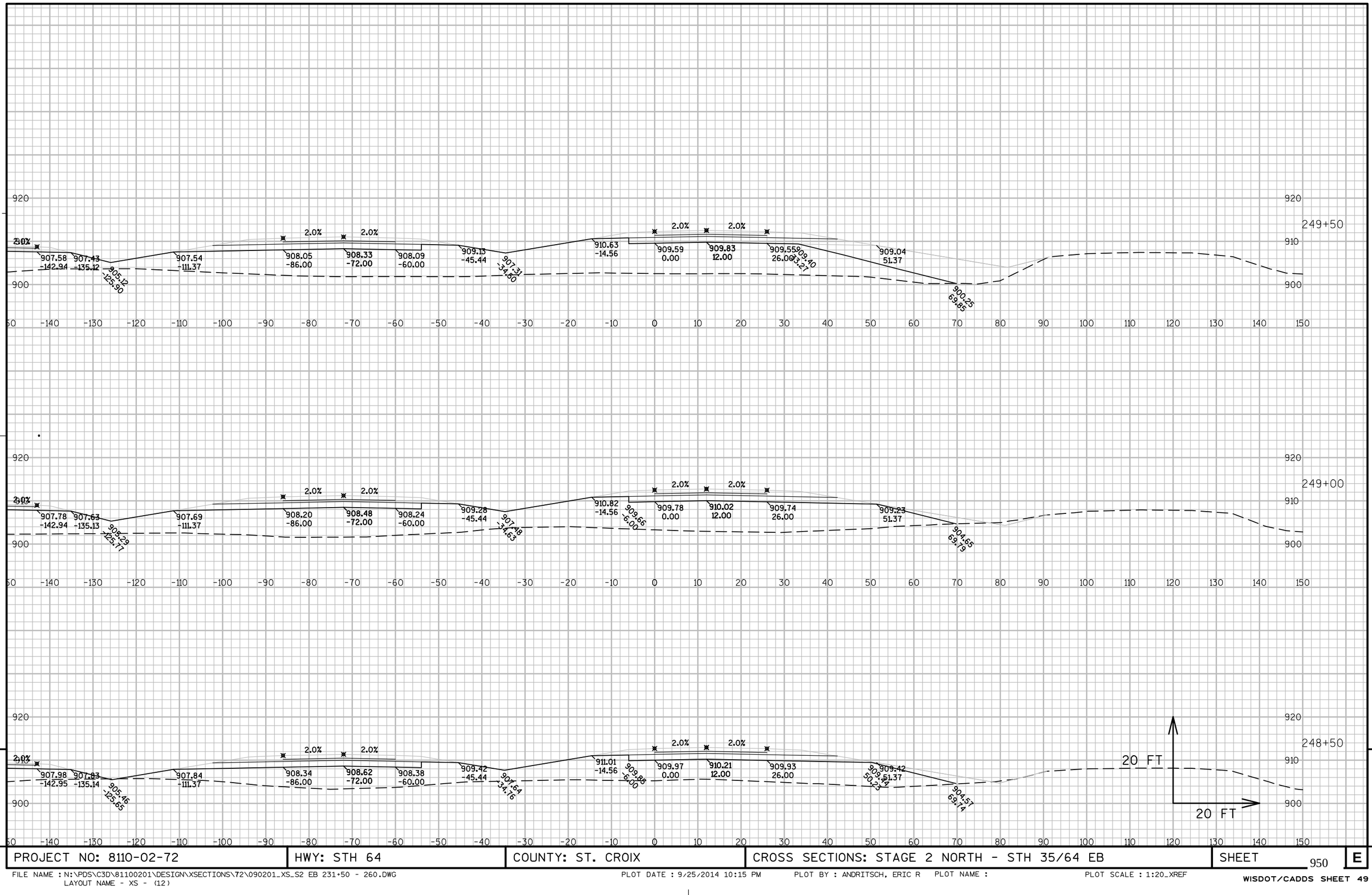
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (10)

PLOT DATE : 9/25/2014 10:14 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 949 E

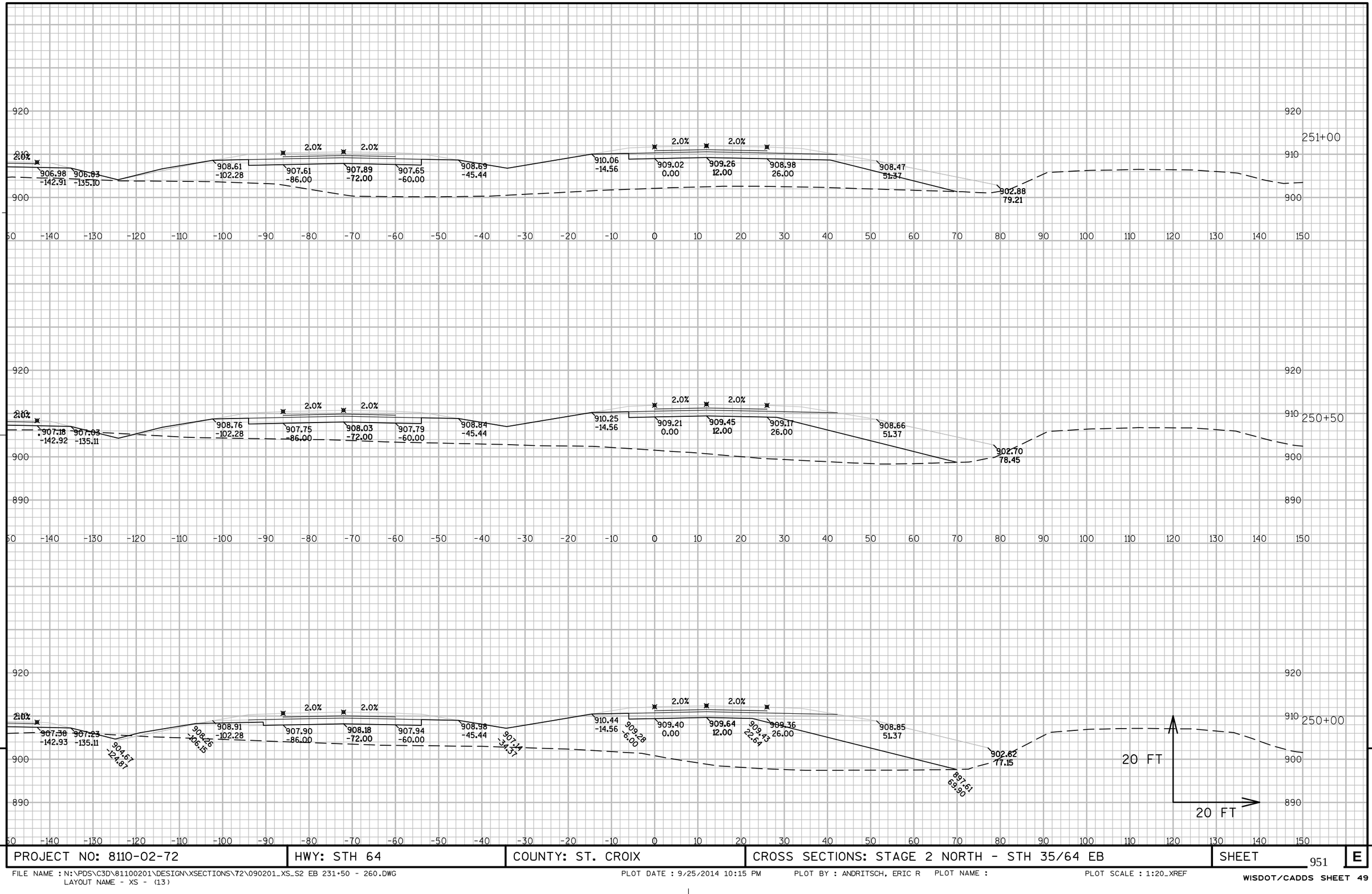


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 950	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (12)

PLOT DATE : 9/25/2014 10:15 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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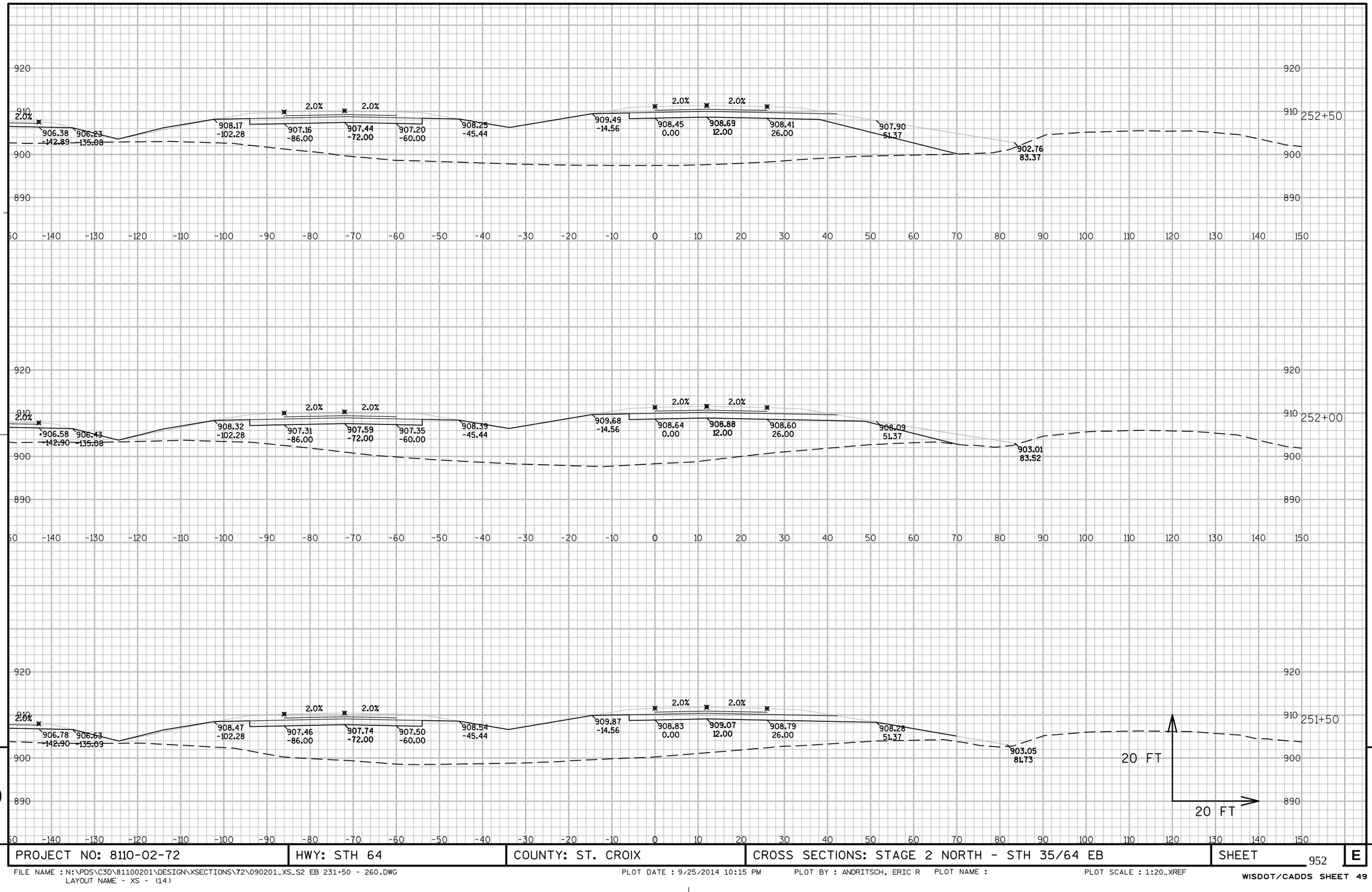
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 951	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (13)

PLOT DATE : 9/25/2014 10:15 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

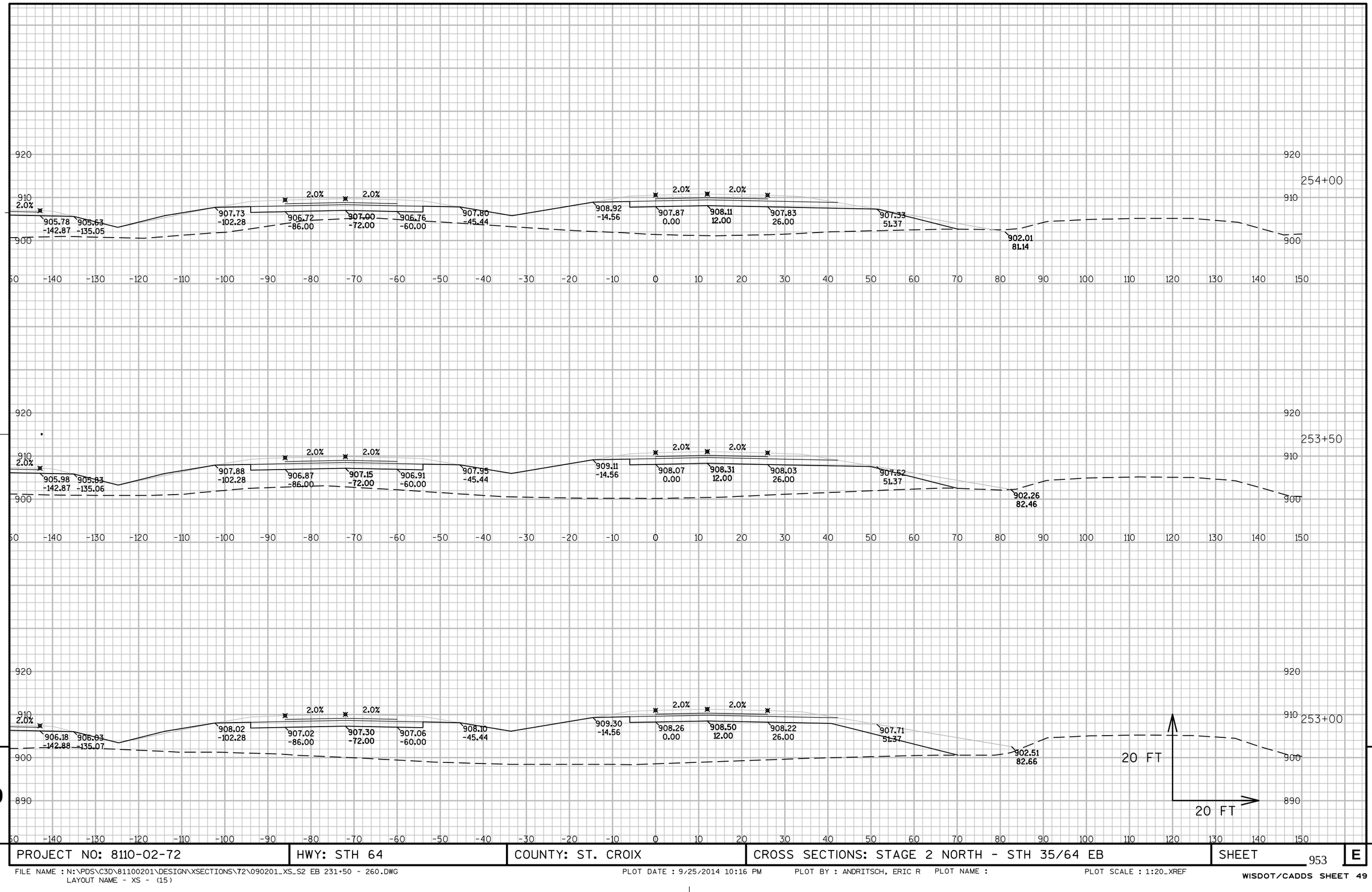


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 952	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (14)

PLOT DATE : 9/25/2014 10:15 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

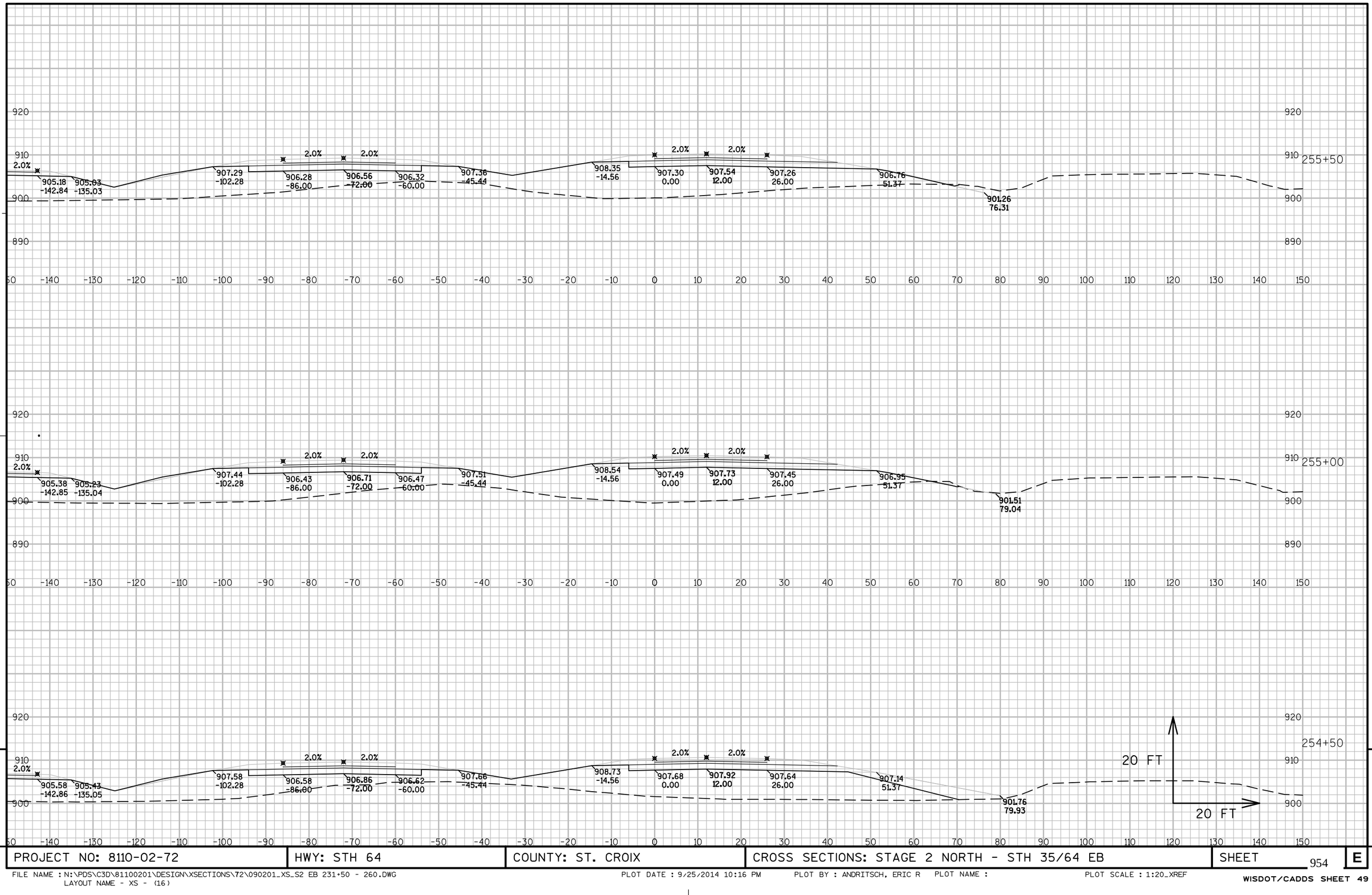


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 953	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (15)

PLOT DATE : 9/25/2014 10:16 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 954	E

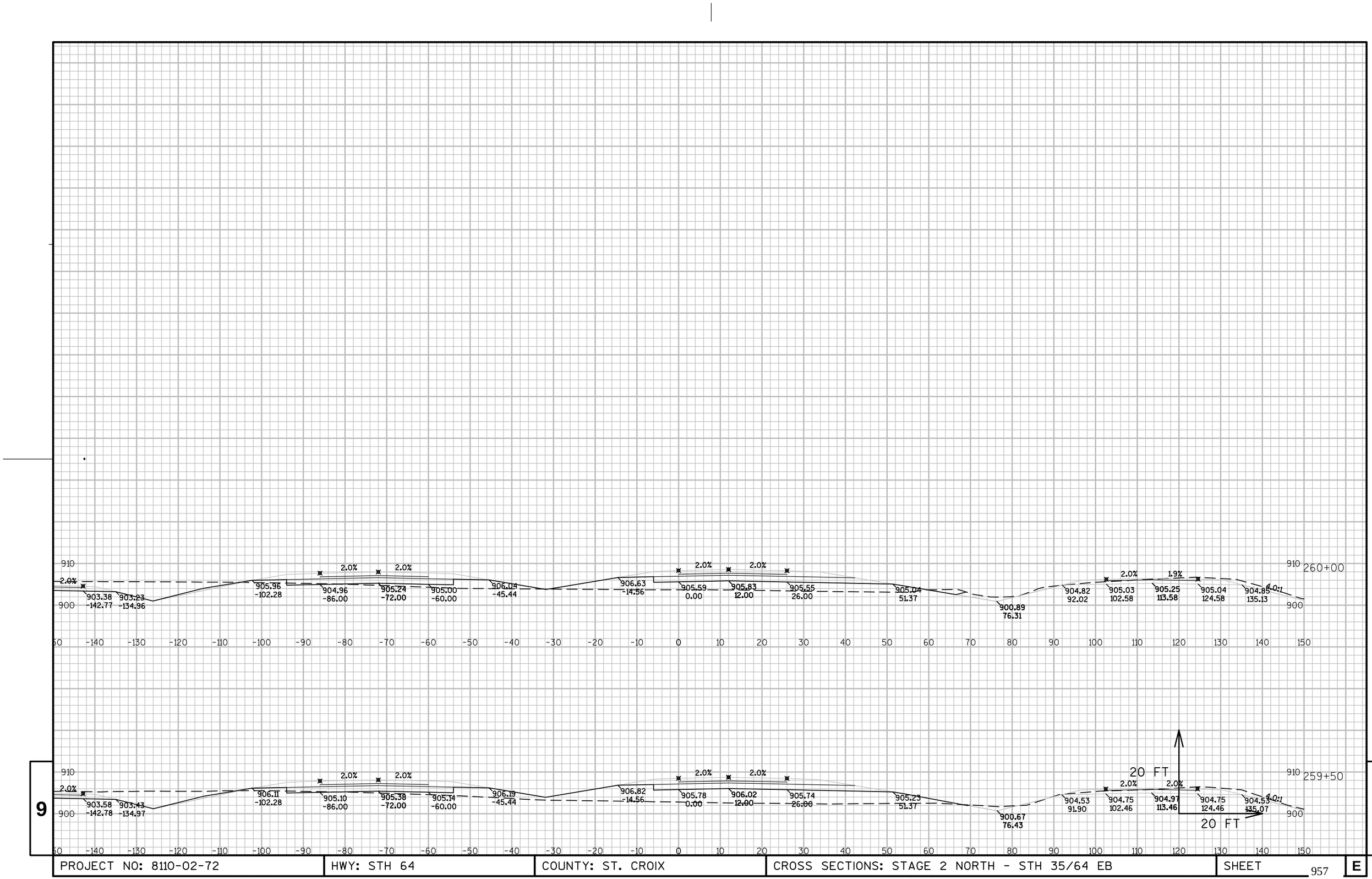
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (16)
PLOT DATE : 9/25/2014 10:16 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 955	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (17)
PLOT DATE : 9/25/2014 10:16 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 956 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (18)
PLOT DATE : 9/25/2014 10:16 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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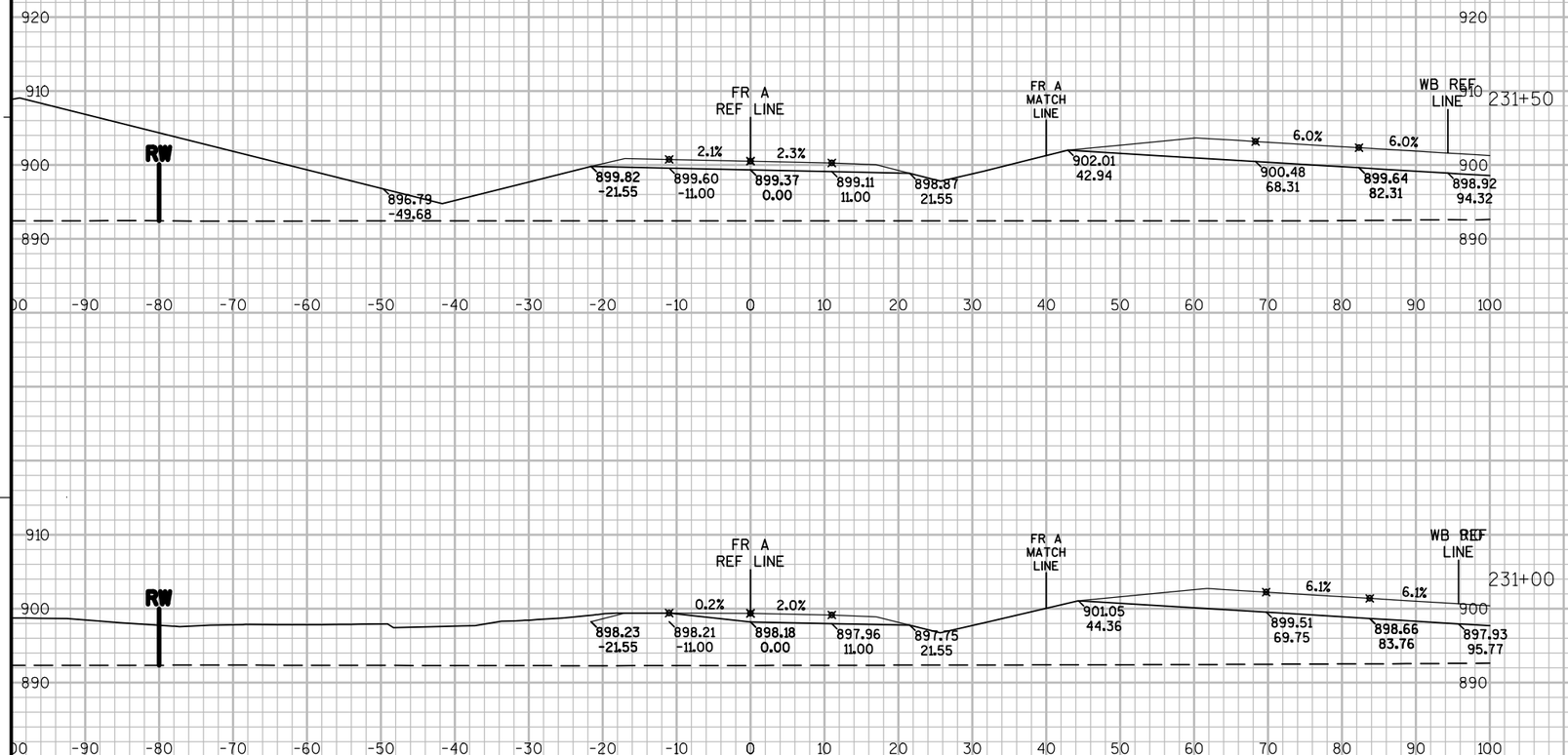
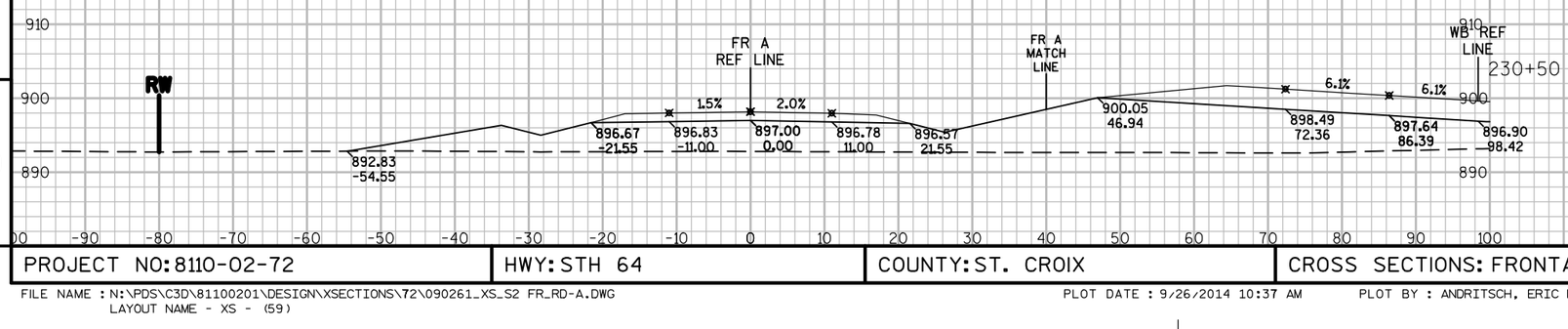
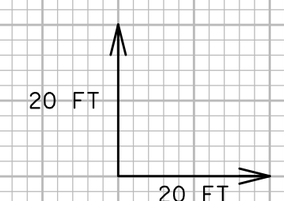
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 EB	SHEET 957	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090201_XS_S2 EB 231+50 - 260.DWG
LAYOUT NAME - XS - (19)

PLOT DATE : 9/25/2014 10:17 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF







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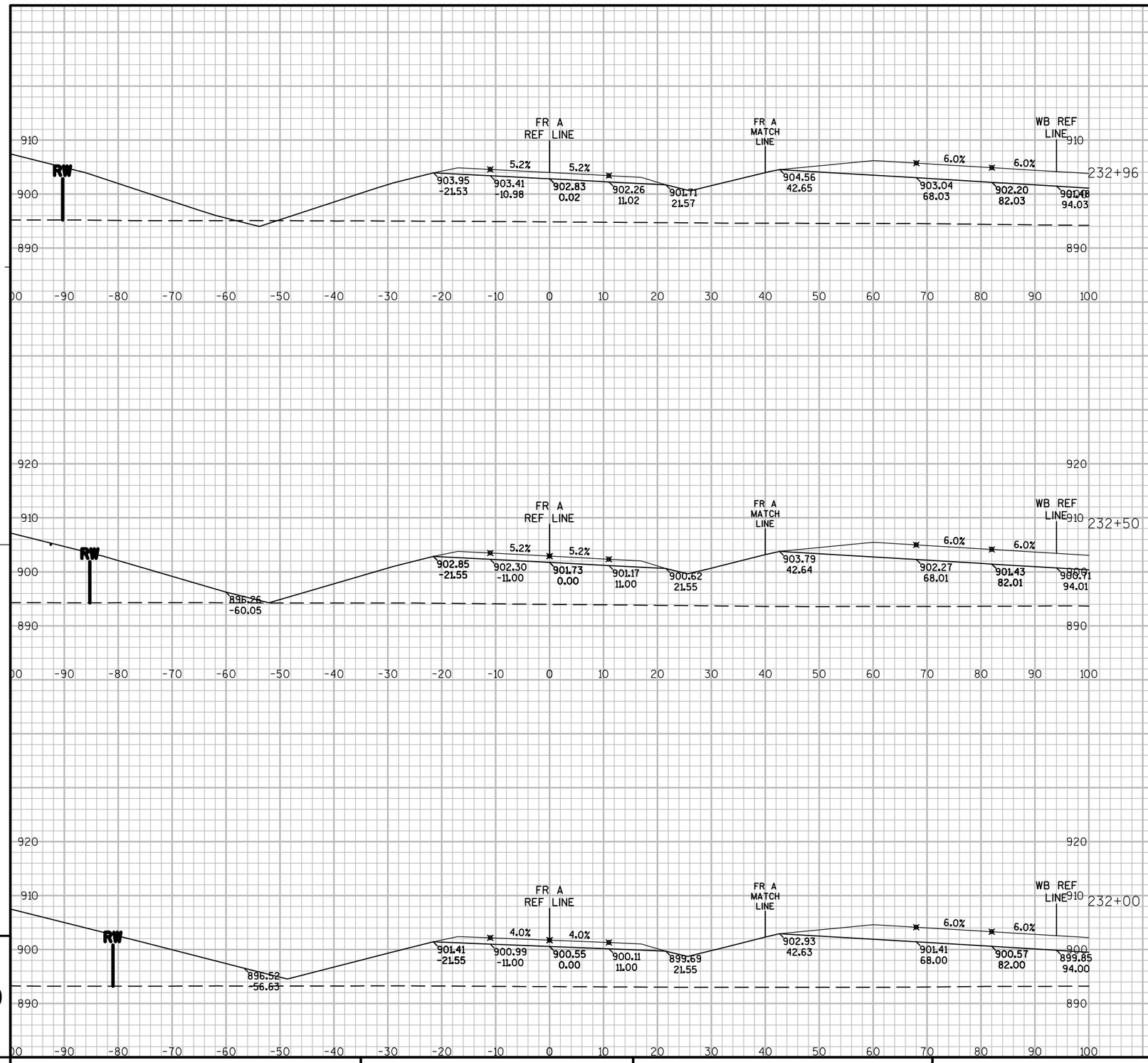
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 958	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (59)

PLOT DATE : 9/26/2014 10:37 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



20 FT

20 FT

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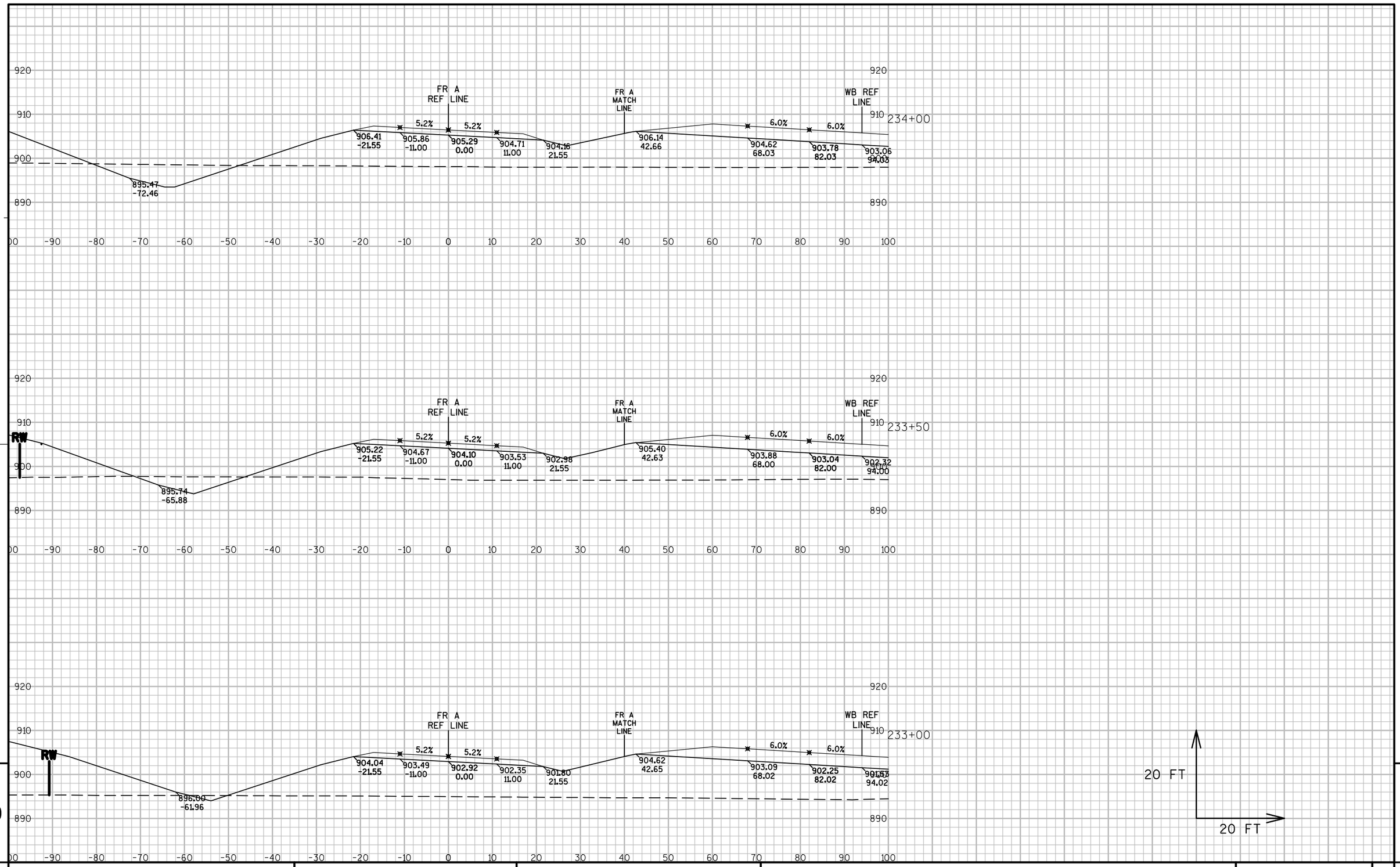
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 959	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (60)

PLOT DATE : 9/26/2014 10:37 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

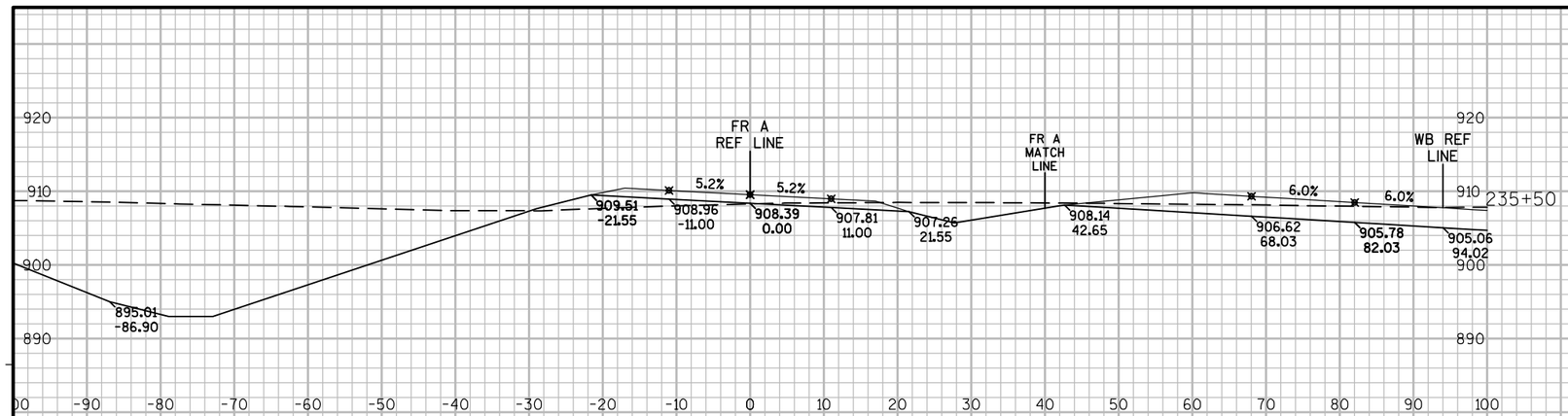


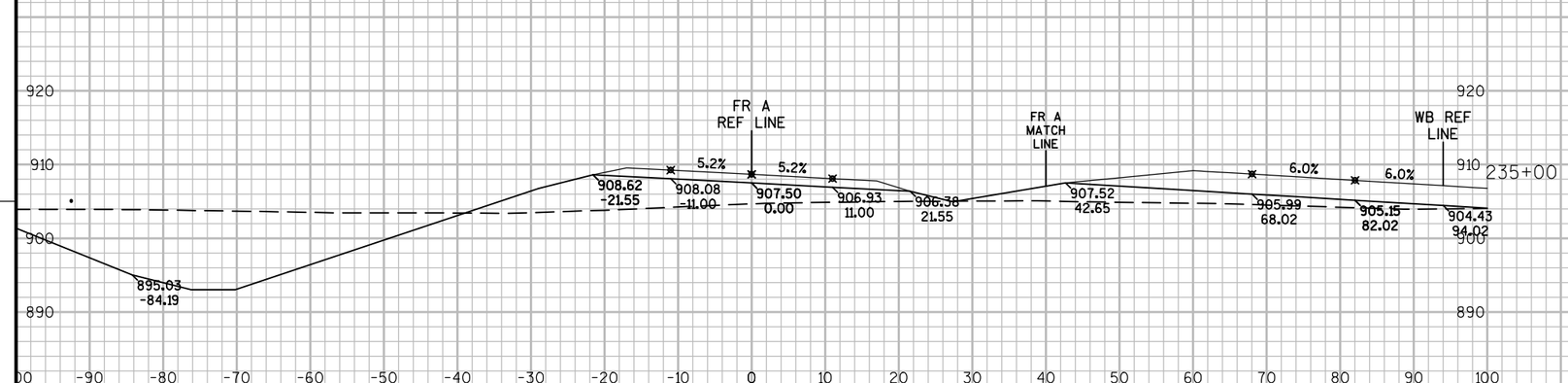
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 960	E

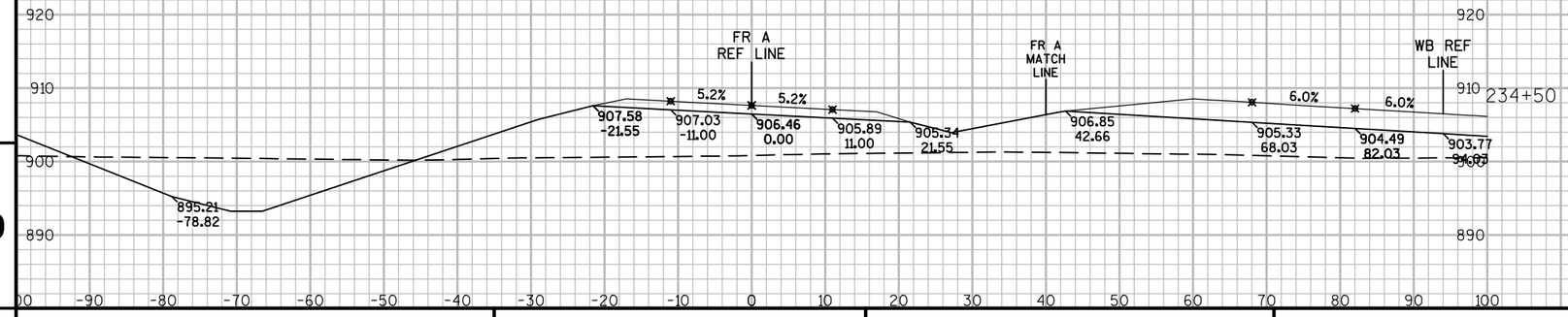
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (61)

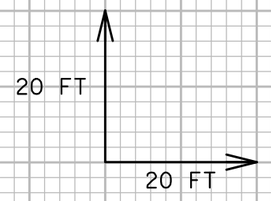
PLOT DATE : 9/26/2014 10:37 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49









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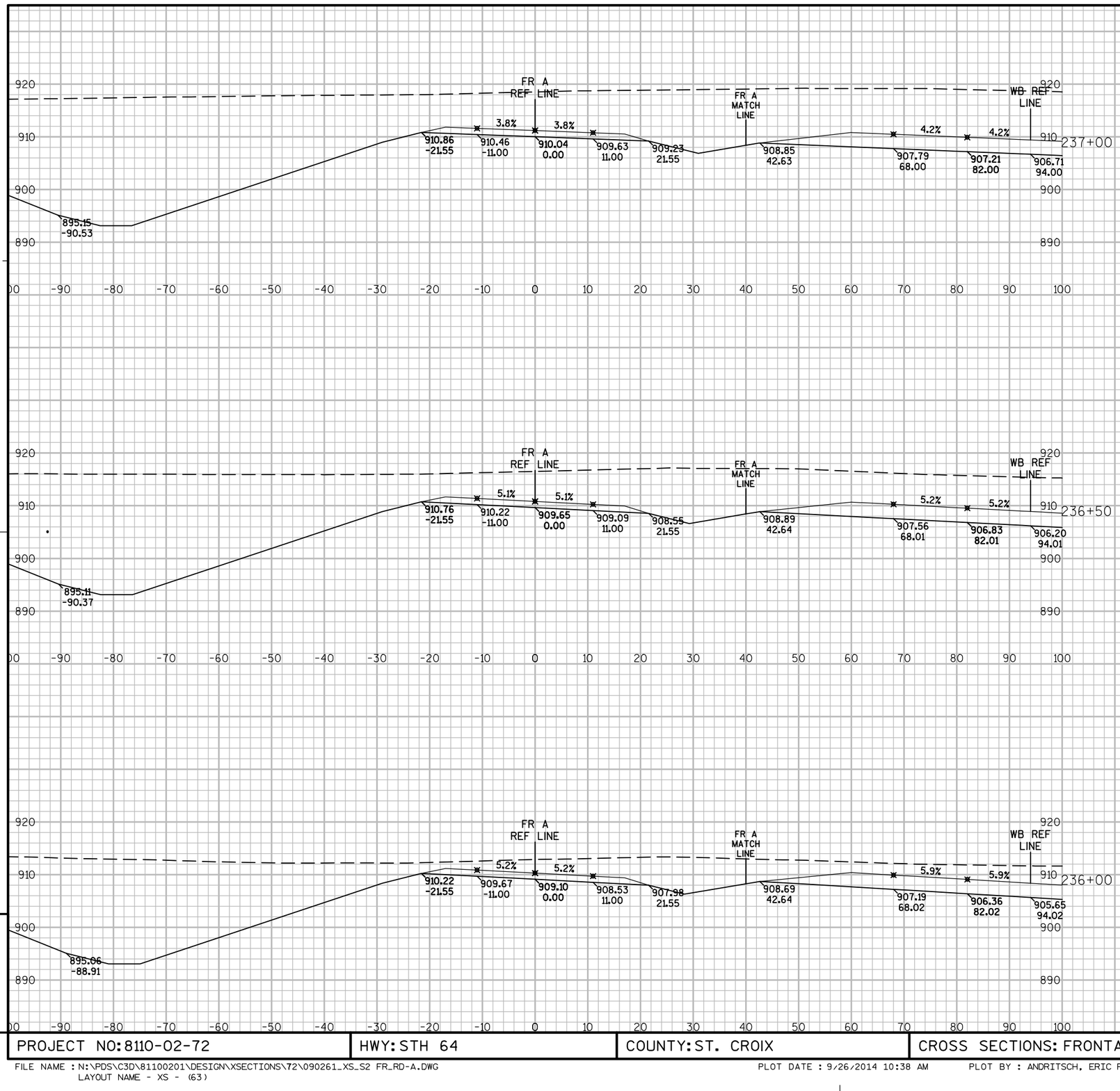
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 961	E

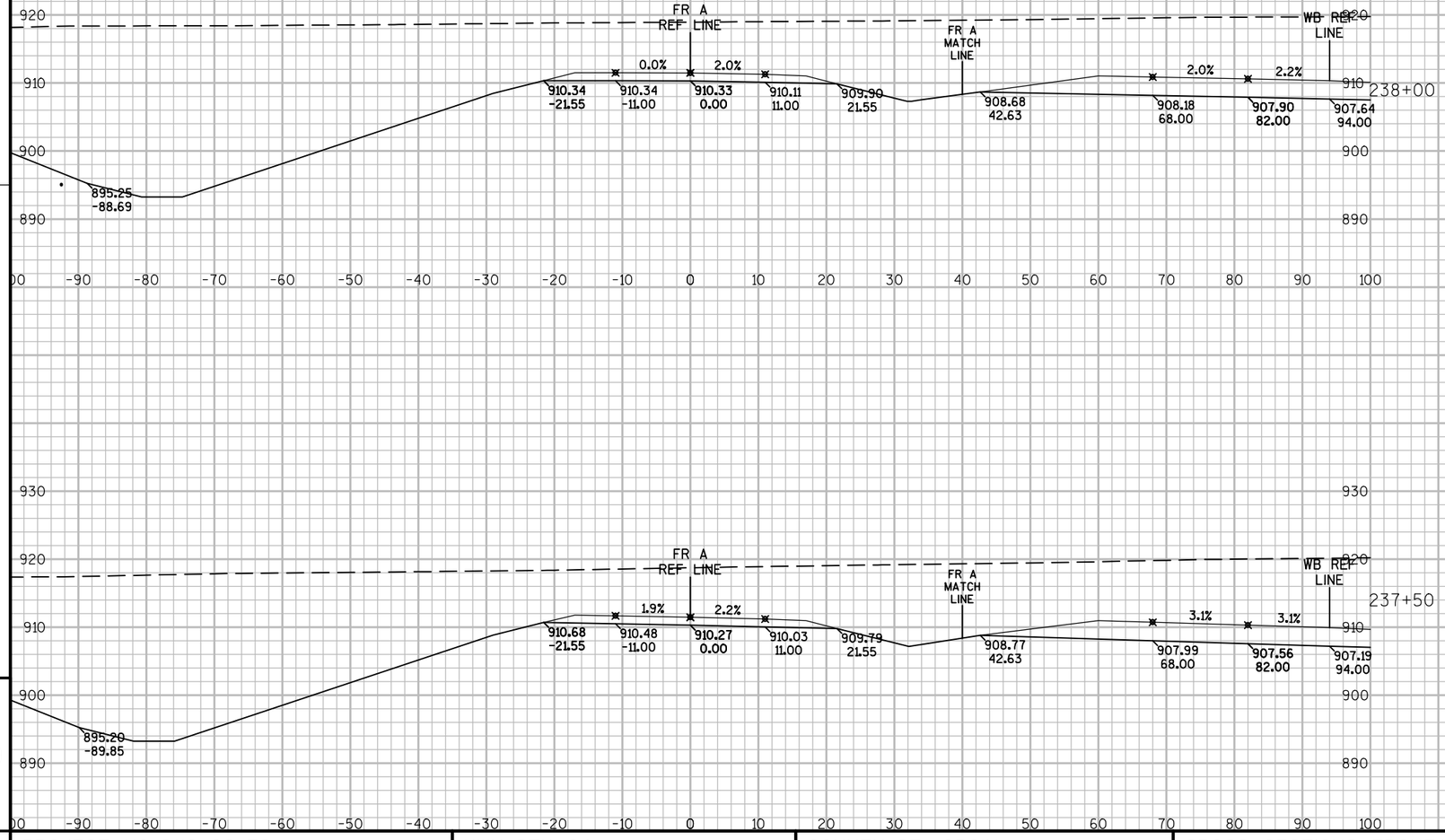
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (62)

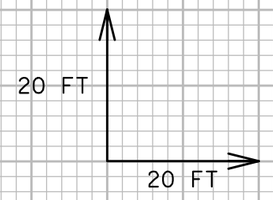
PLOT DATE : 9/26/2014 10:37 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 962	E





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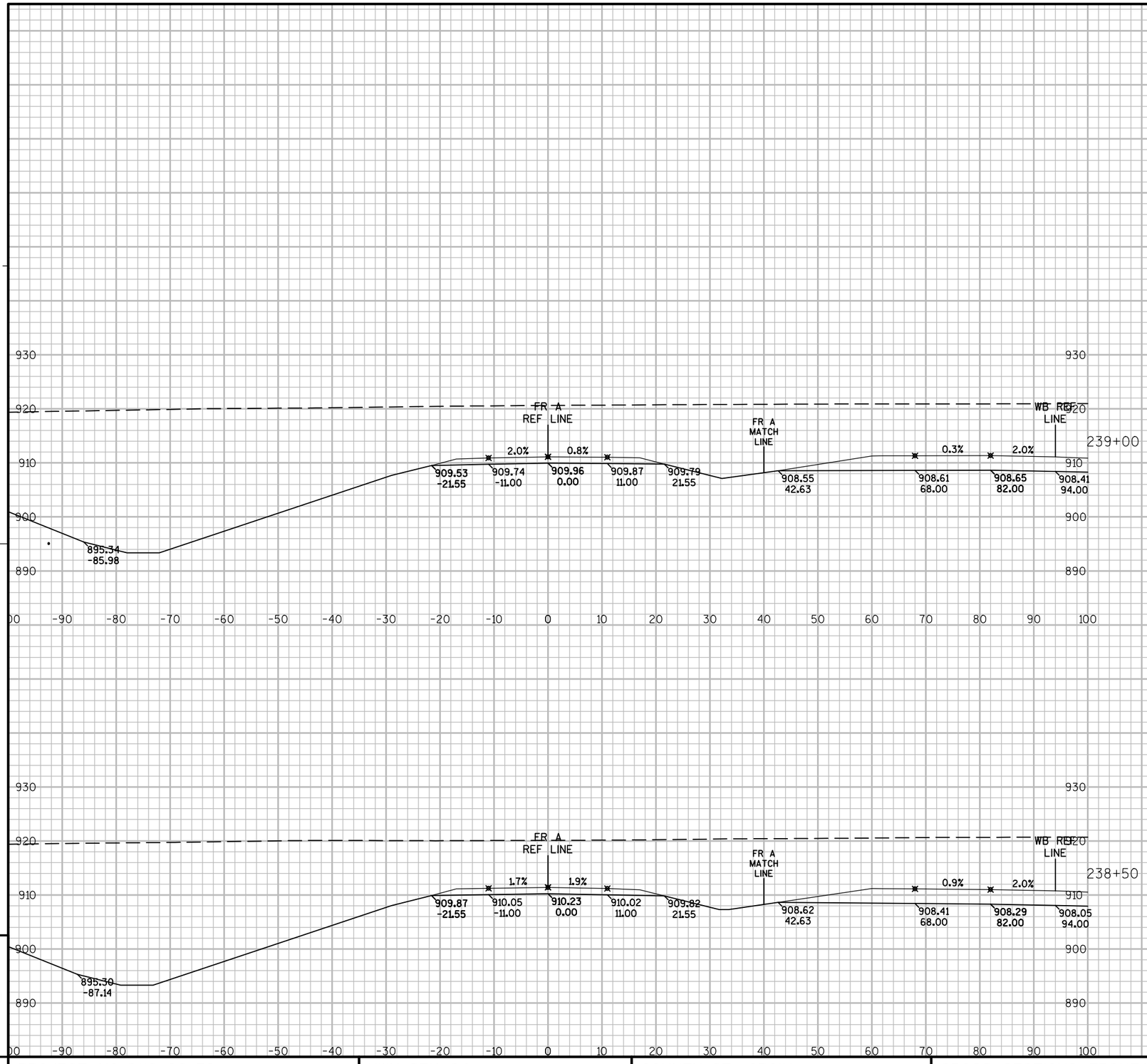
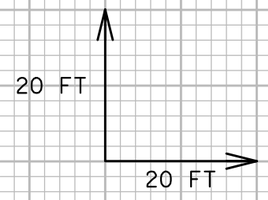
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 963	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (64)

PLOT DATE : 9/26/2014 10:38 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF





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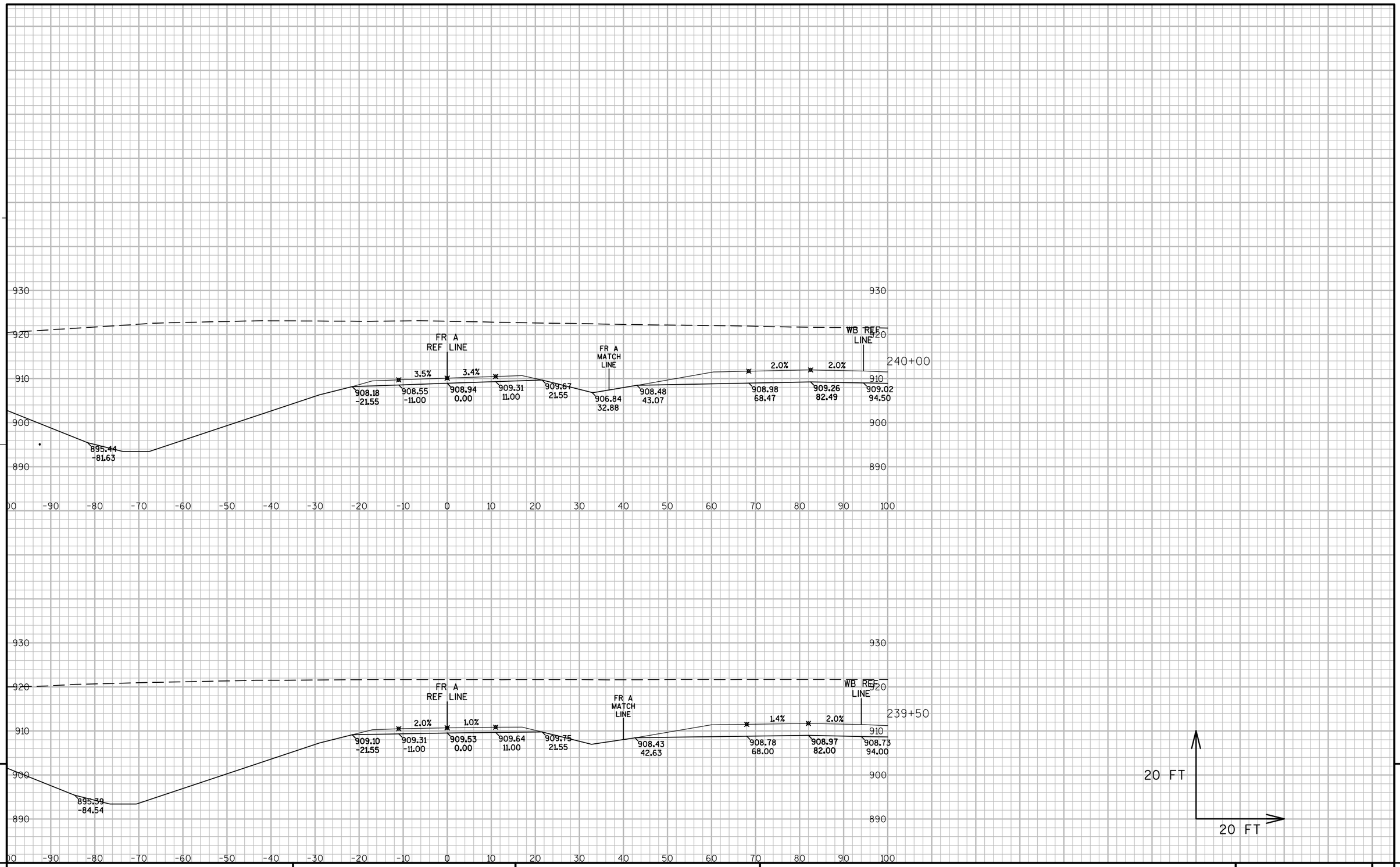
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 964	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (65)

PLOT DATE : 9/26/2014 10:38 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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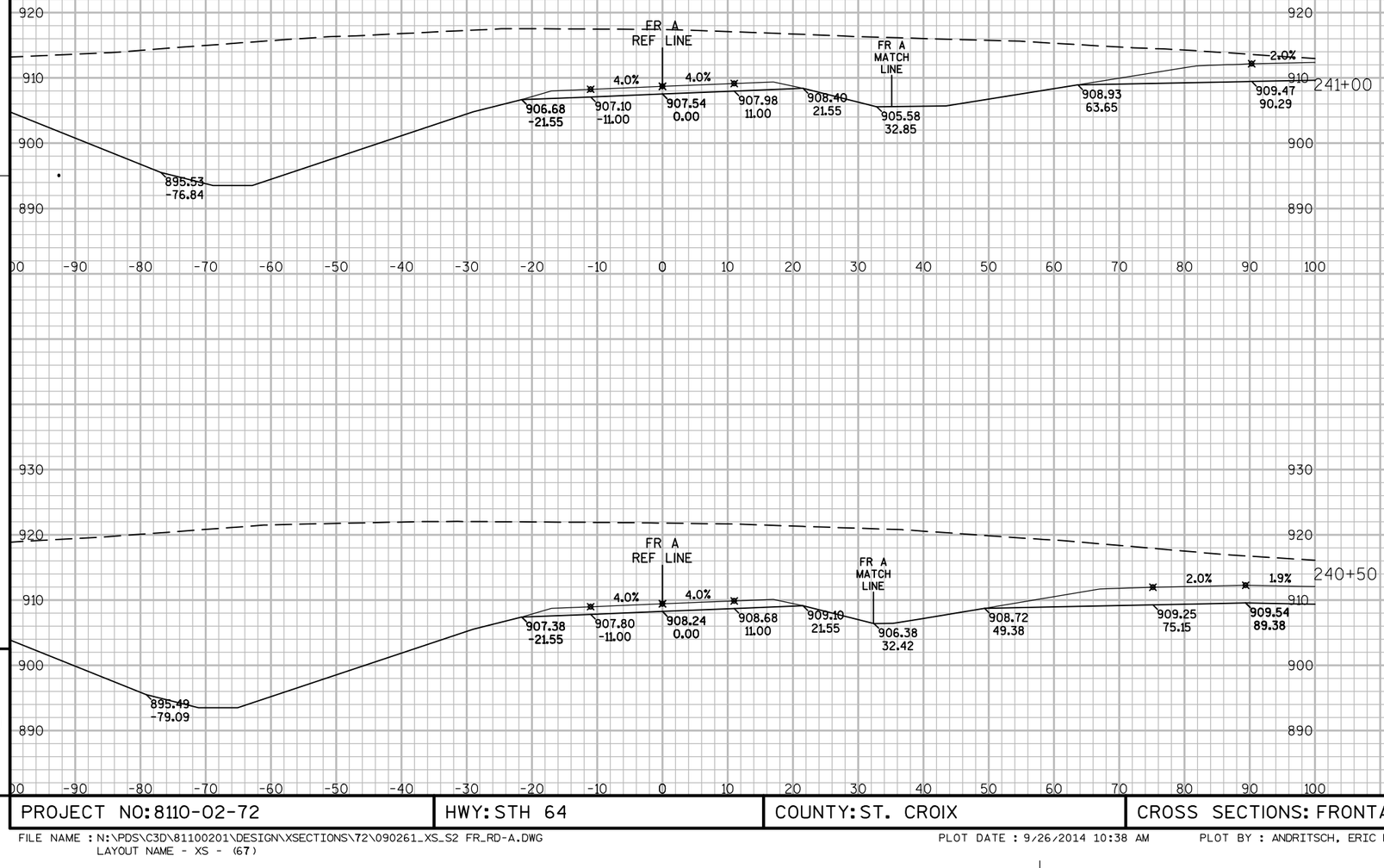
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 965	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (66)

PLOT DATE : 9/26/2014 10:38 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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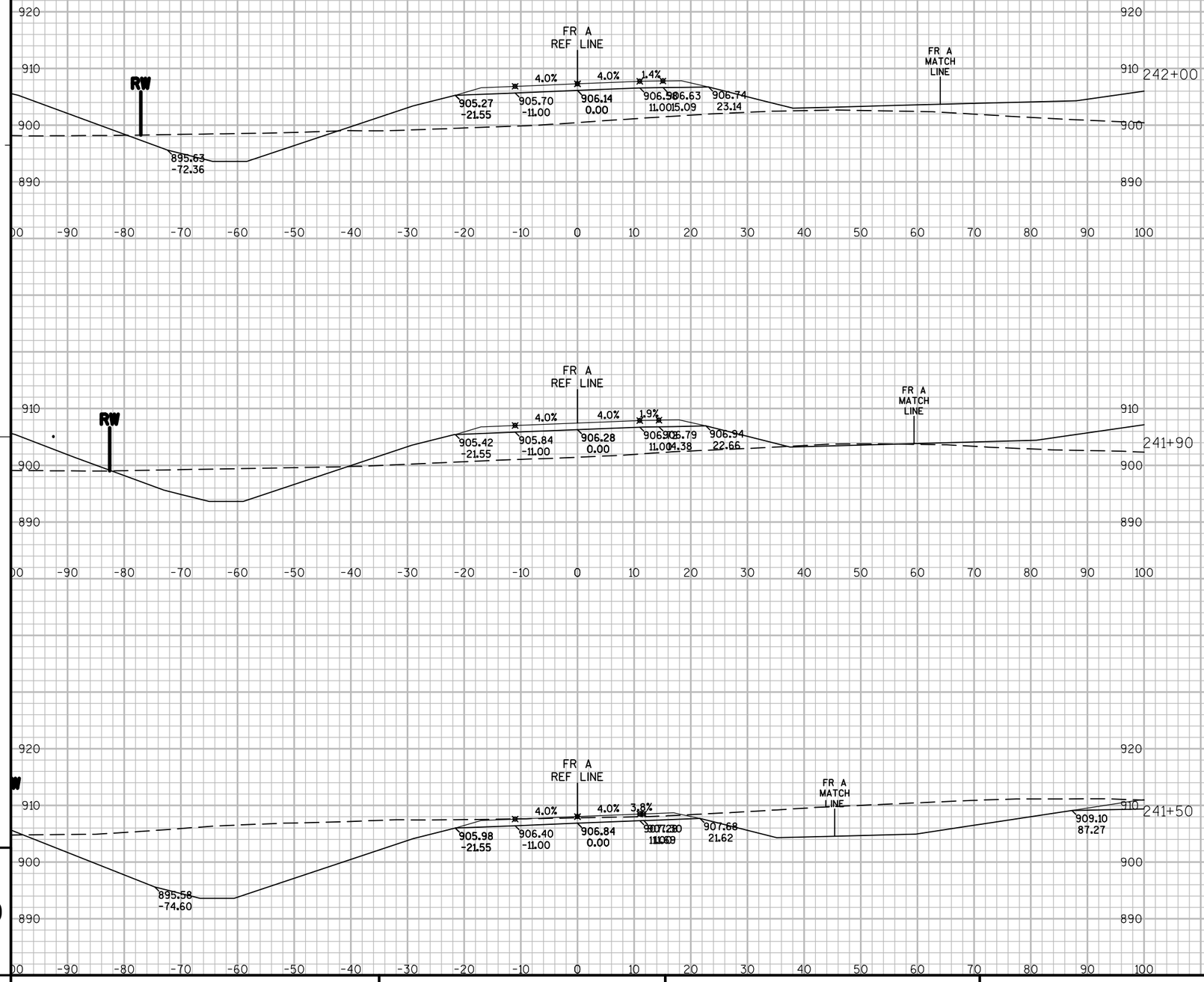
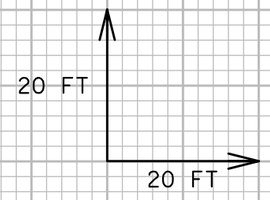
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 966	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (67)

PLOT DATE : 9/26/2014 10:38 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49





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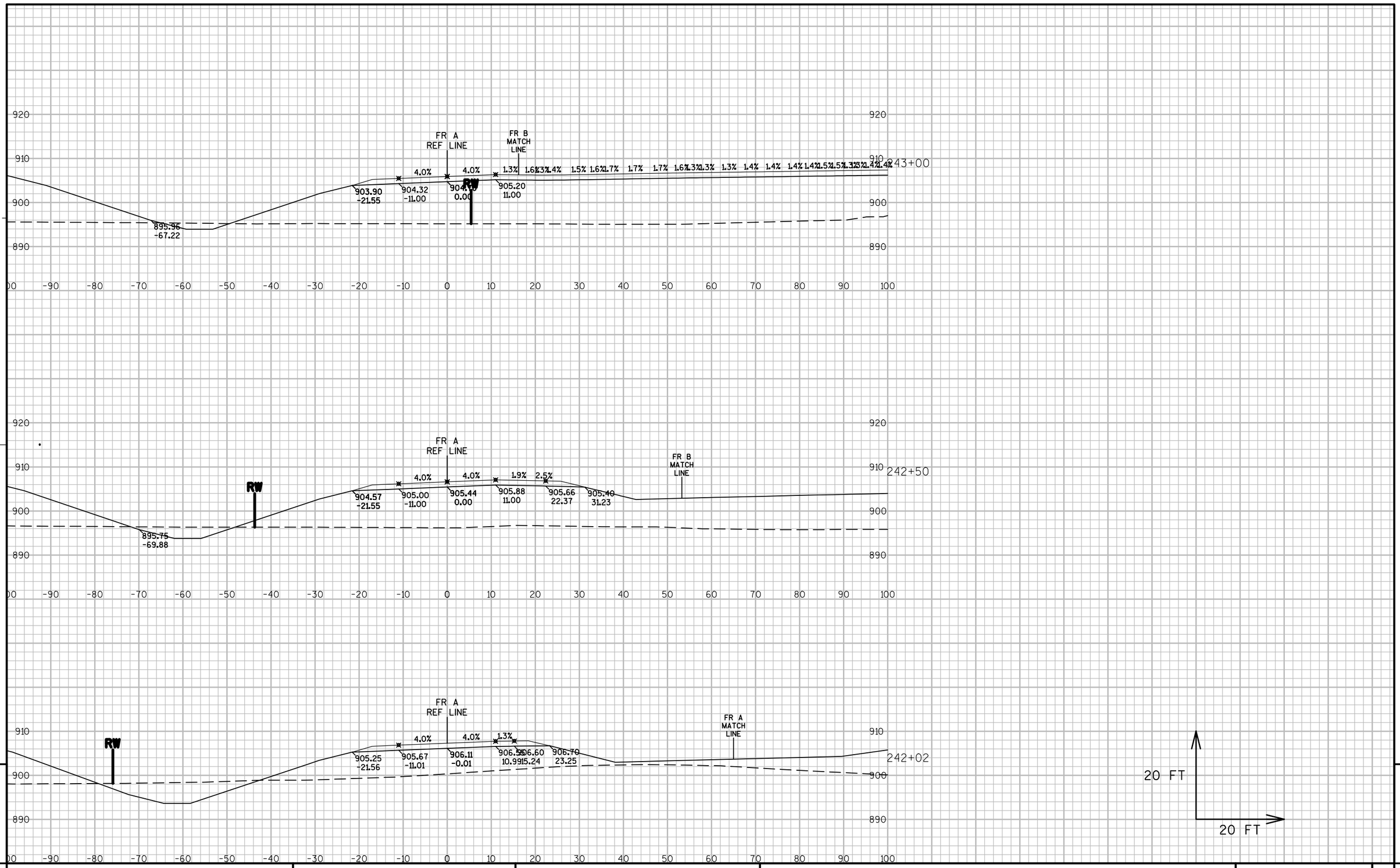
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 967	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (68)

PLOT DATE : 9/26/2014 10:38 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

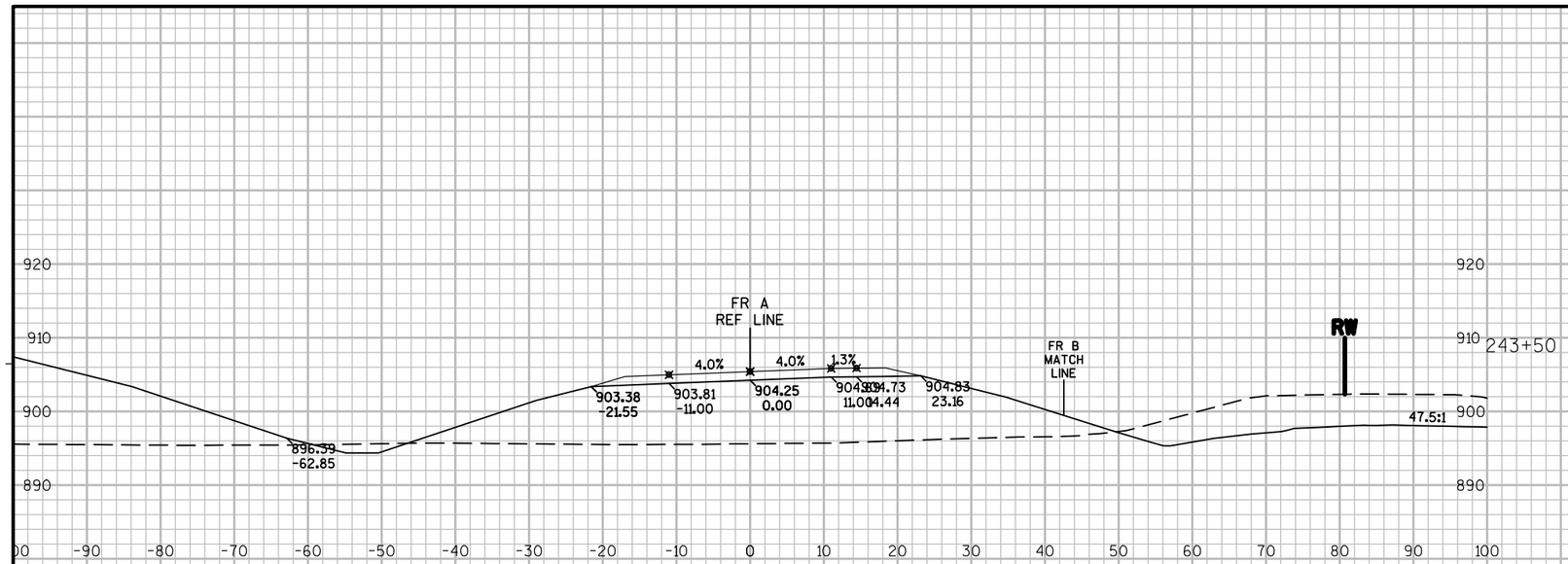


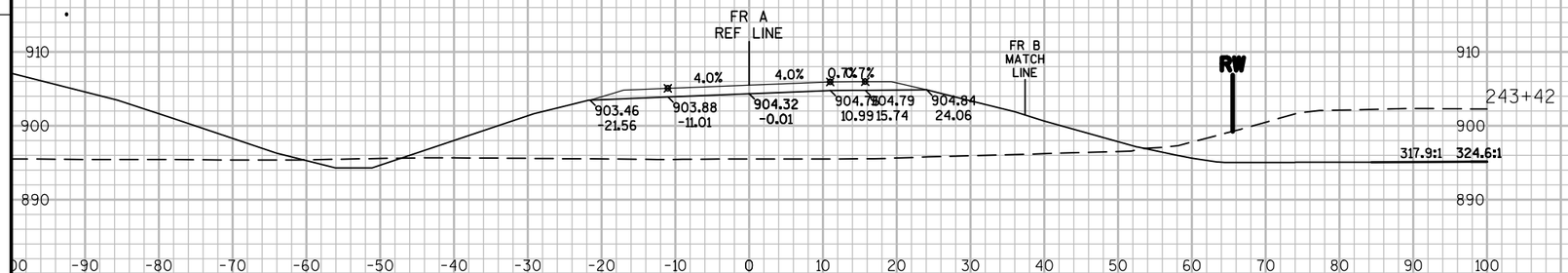
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 968	E

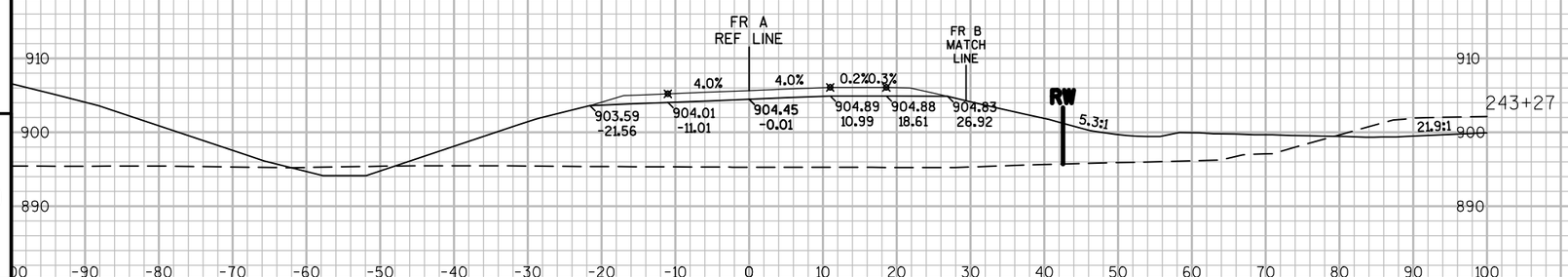
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (69)

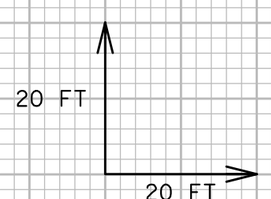
PLOT DATE : 9/26/2014 10:39 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49







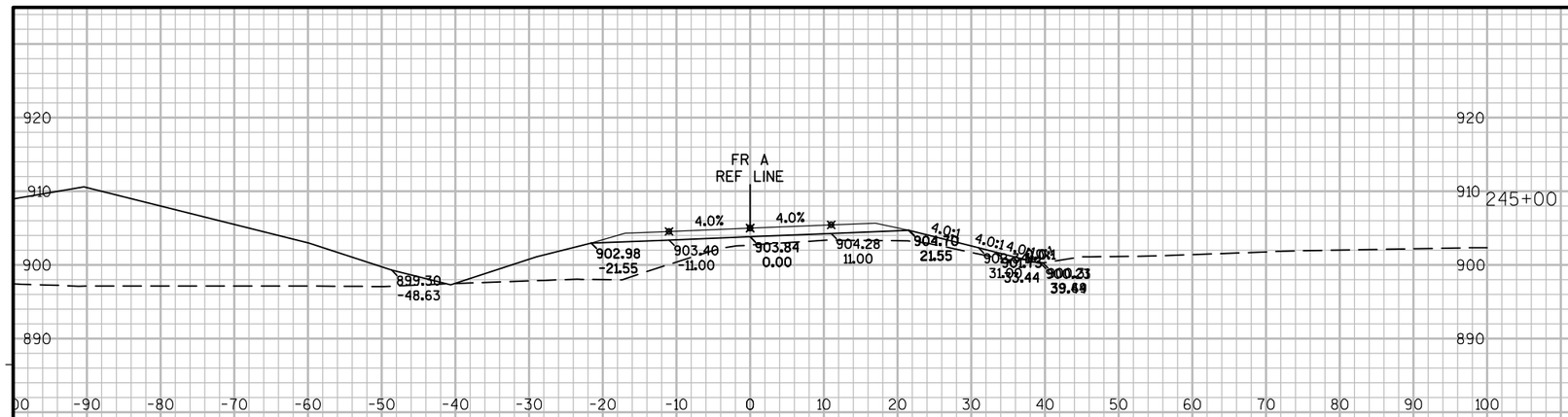


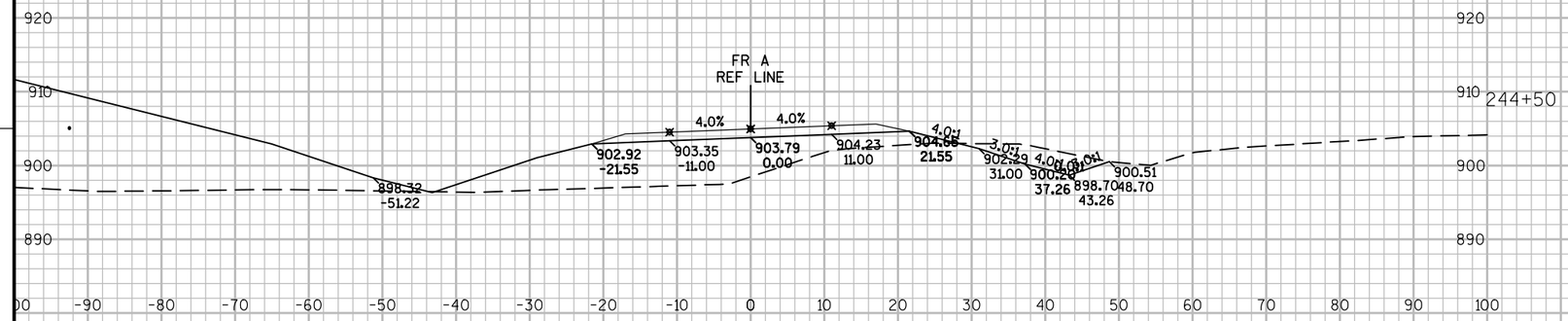
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 969	E

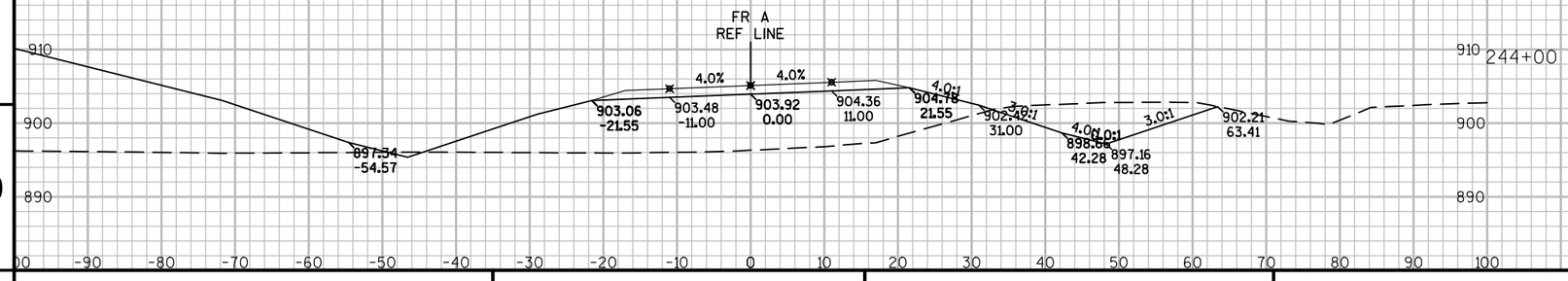
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (70)

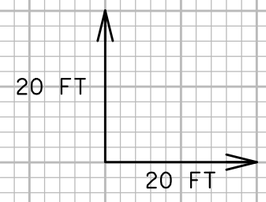
PLOT DATE : 9/26/2014 10:39 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49









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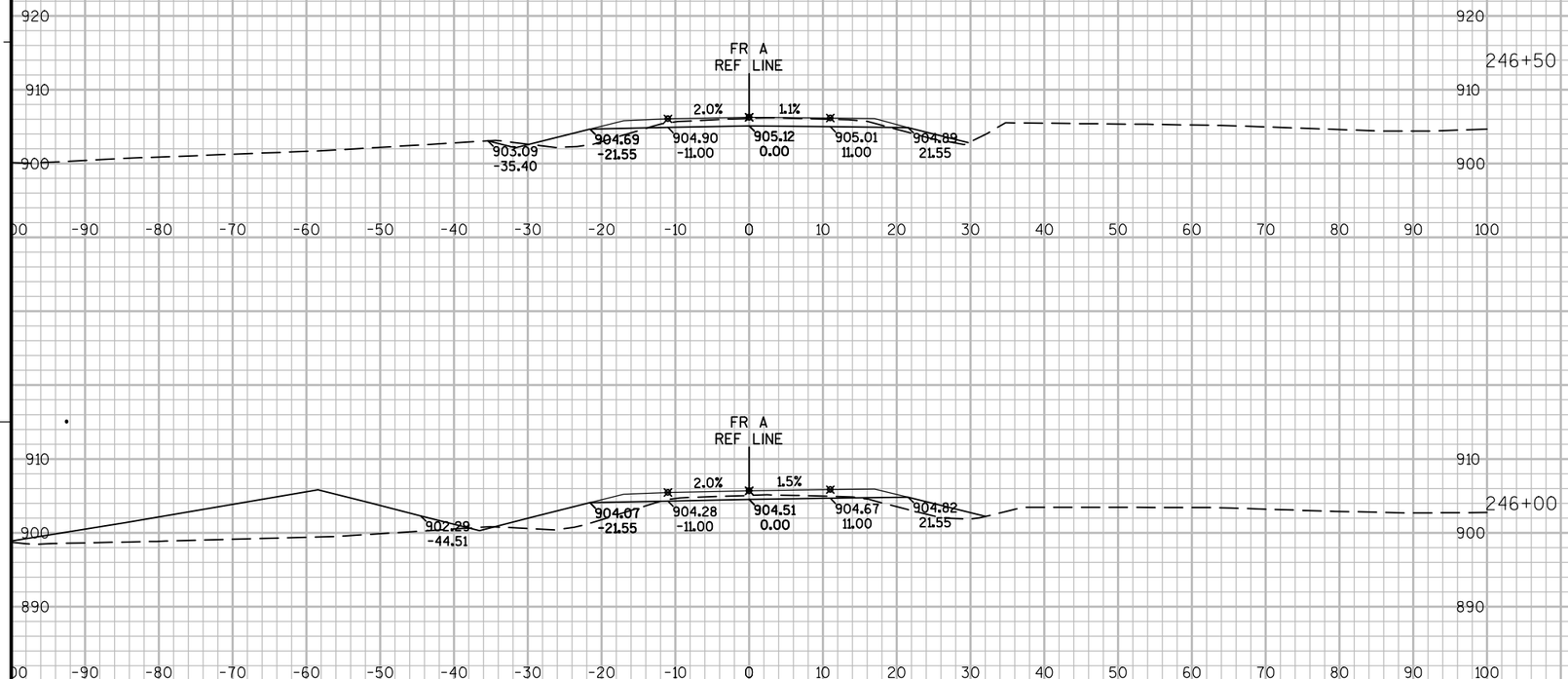
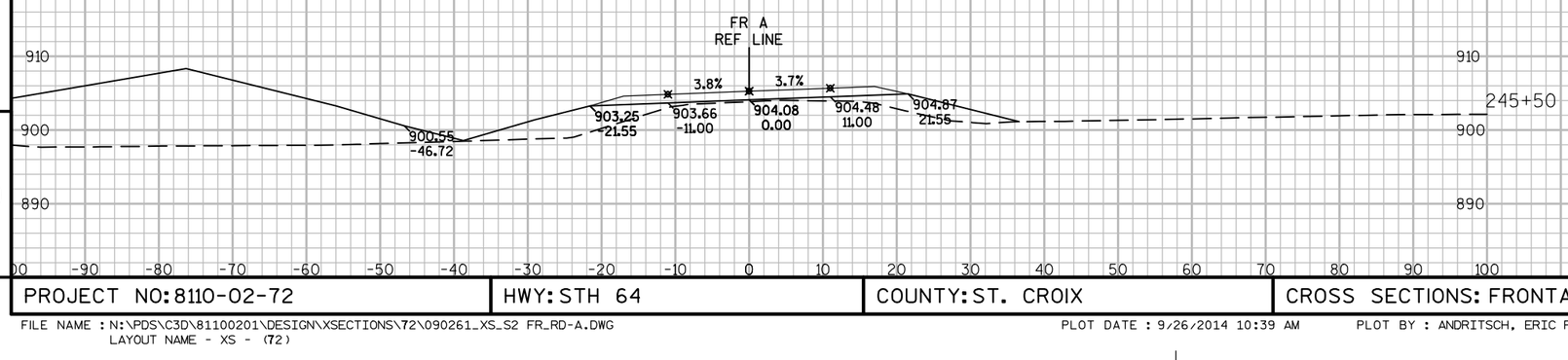
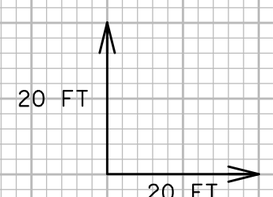
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 970	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (71)

PLOT DATE : 9/26/2014 10:39 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF







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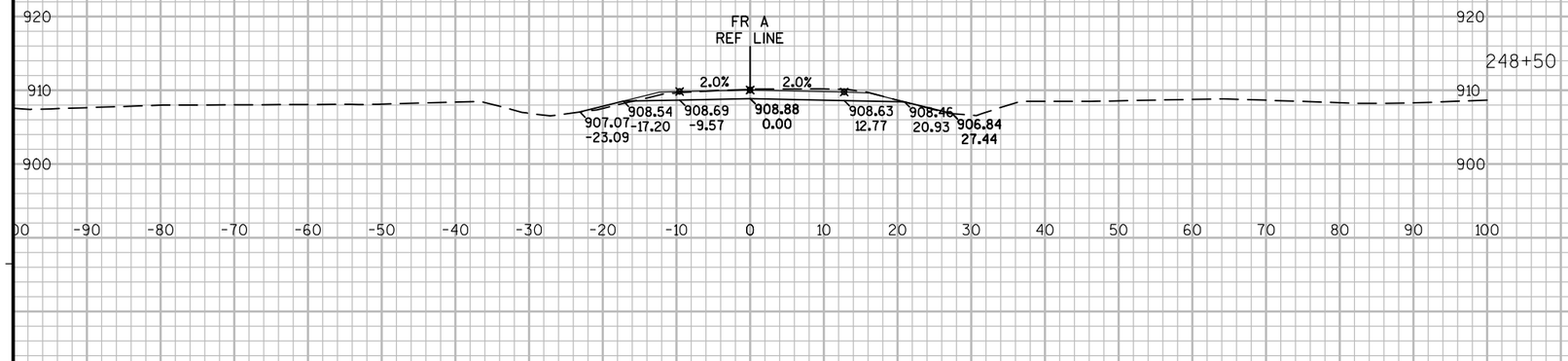
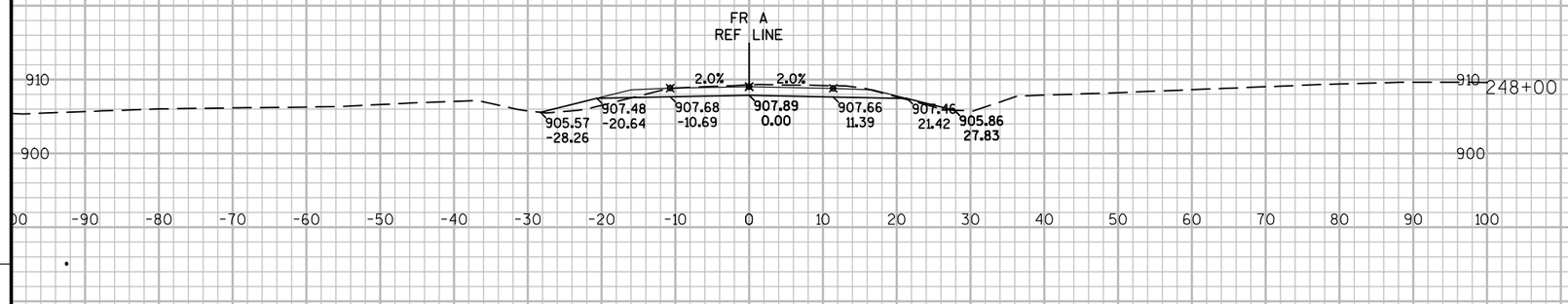
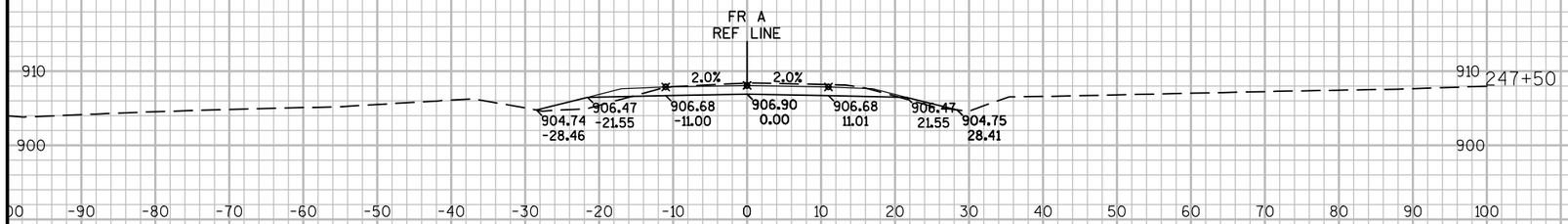
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 971	E

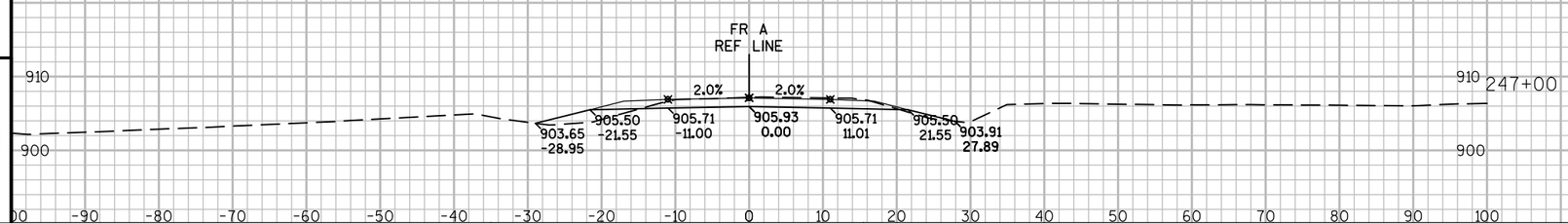
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (72)

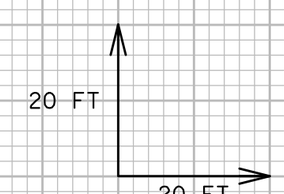
PLOT DATE : 9/26/2014 10:39 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF











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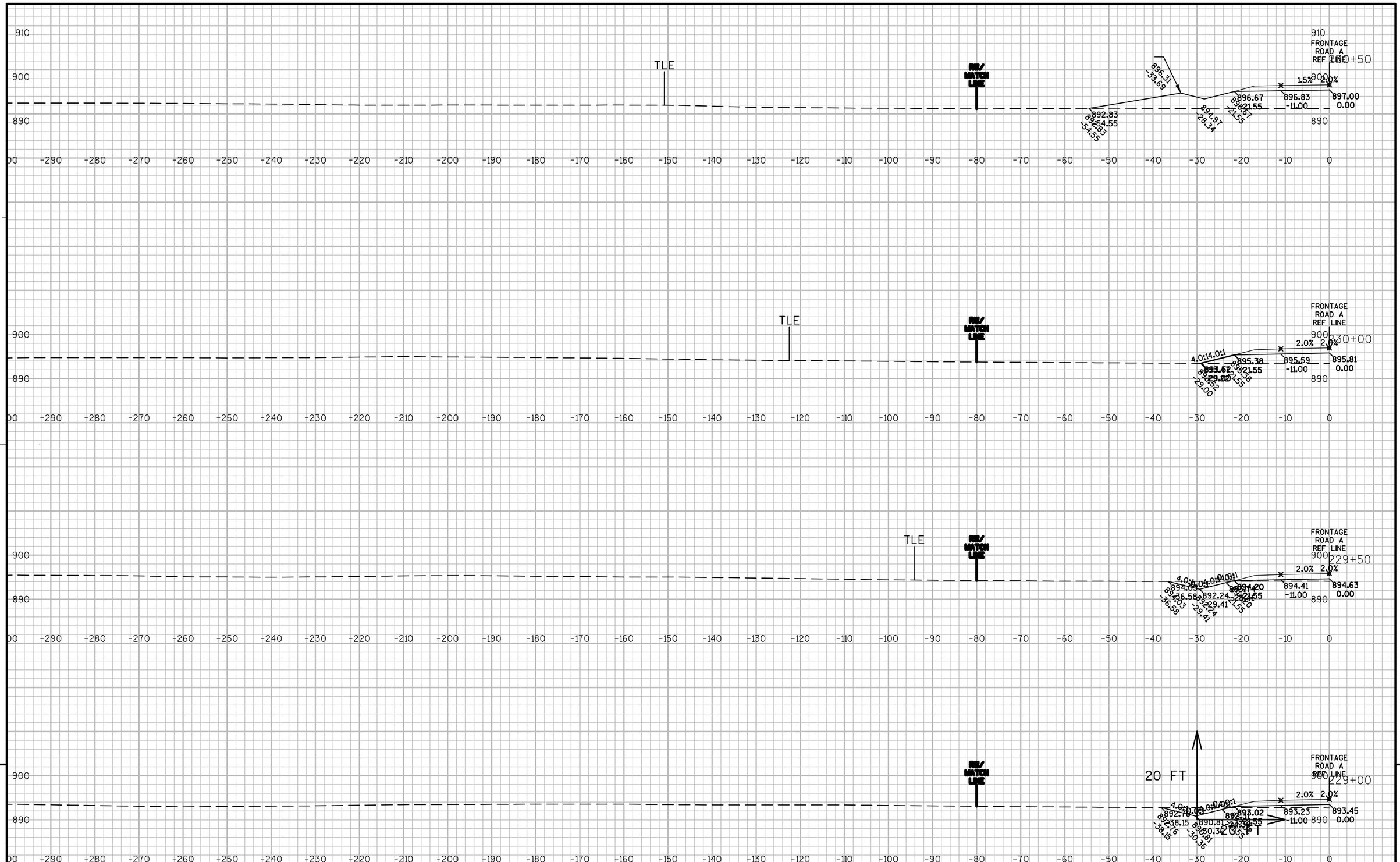
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD A	SHEET 972	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090261_XS_S2 FR_RD-A.DWG
LAYOUT NAME - XS - (73)

PLOT DATE : 9/26/2014 10:39 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

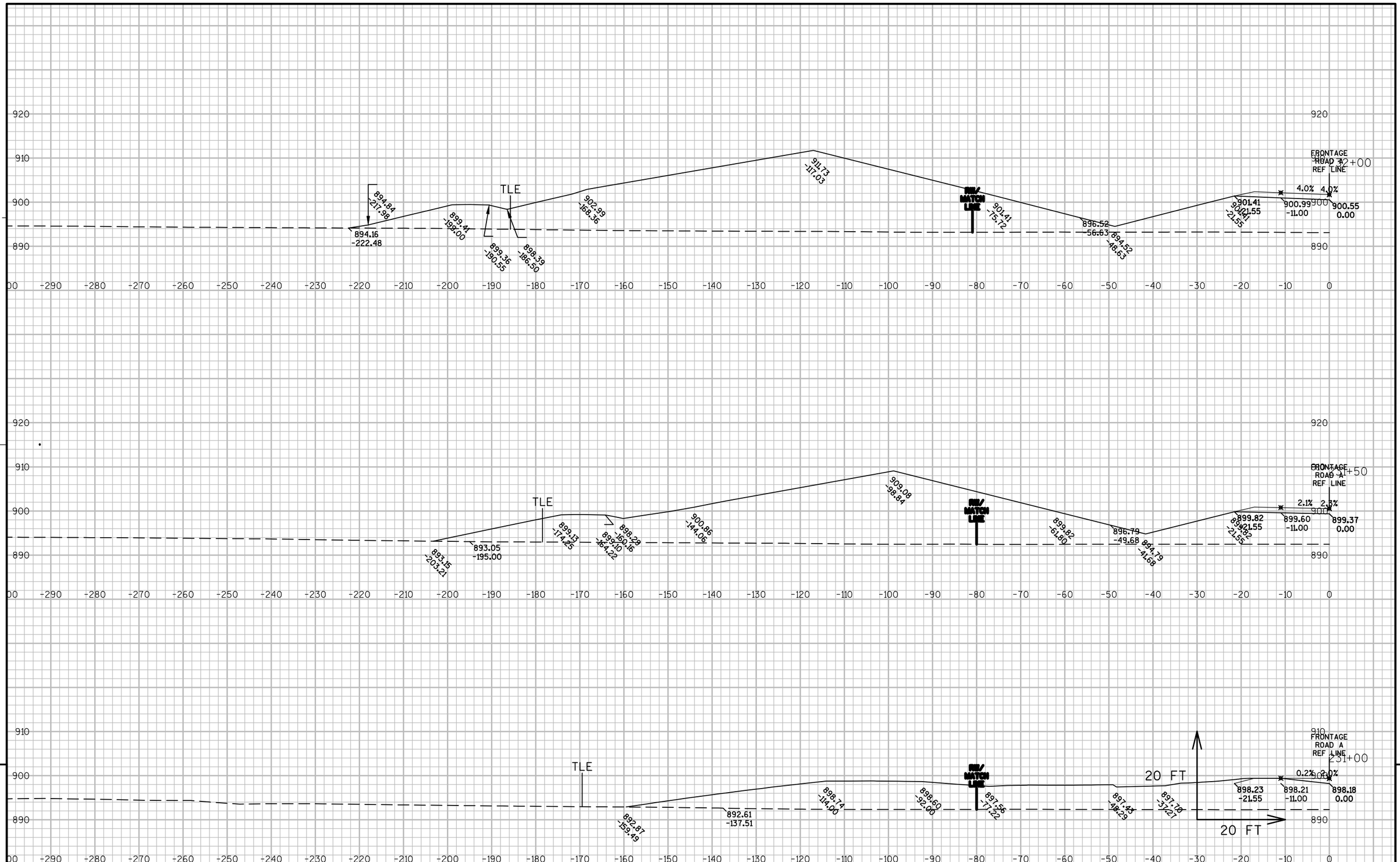


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 973 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9001

PLOT DATE : 9/26/2014 2:46 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

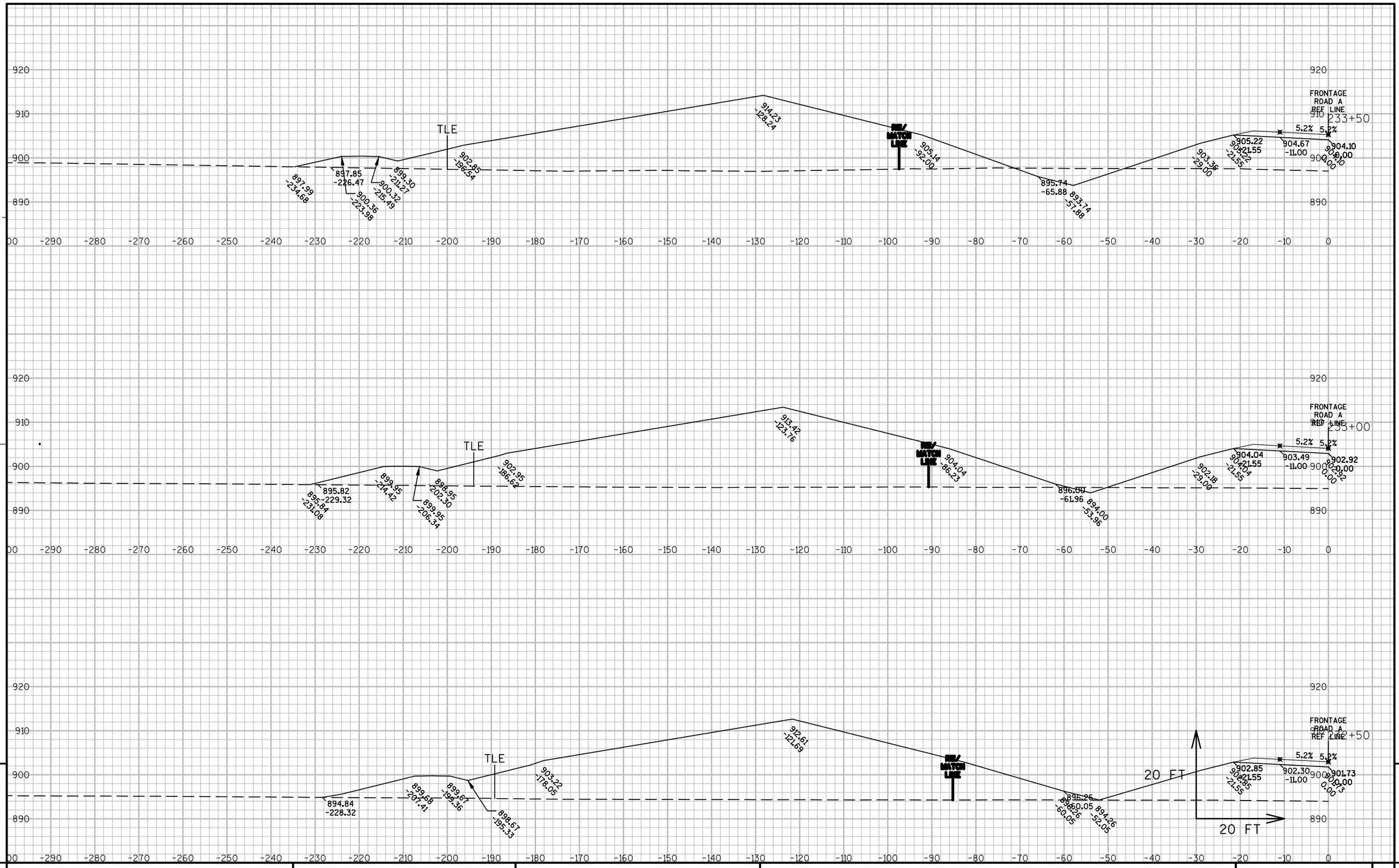


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 974	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9002

PLOT DATE : 9/26/2014 2:47 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

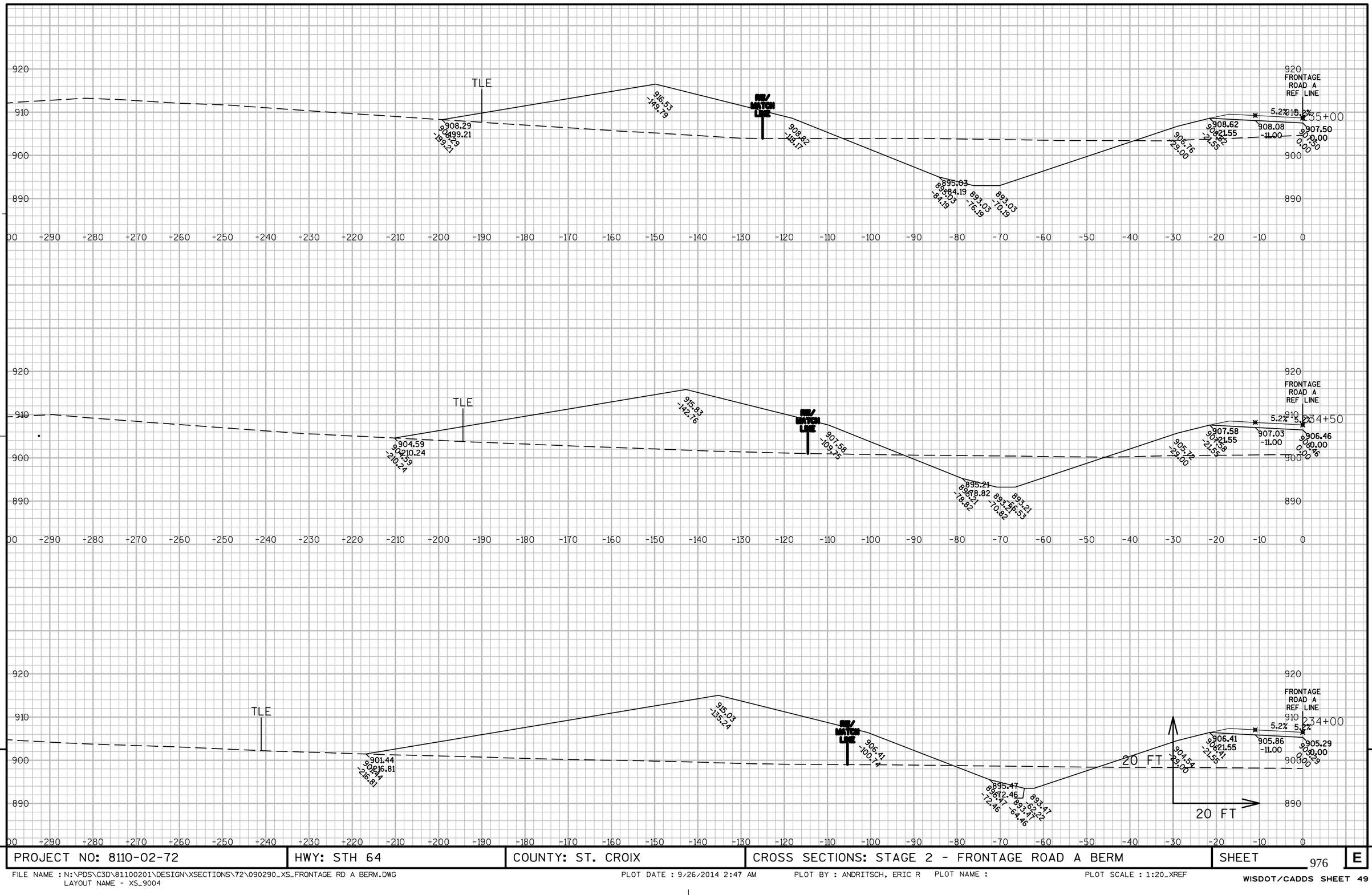
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 975	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9003

PLOT DATE : 9/26/2014 2:47 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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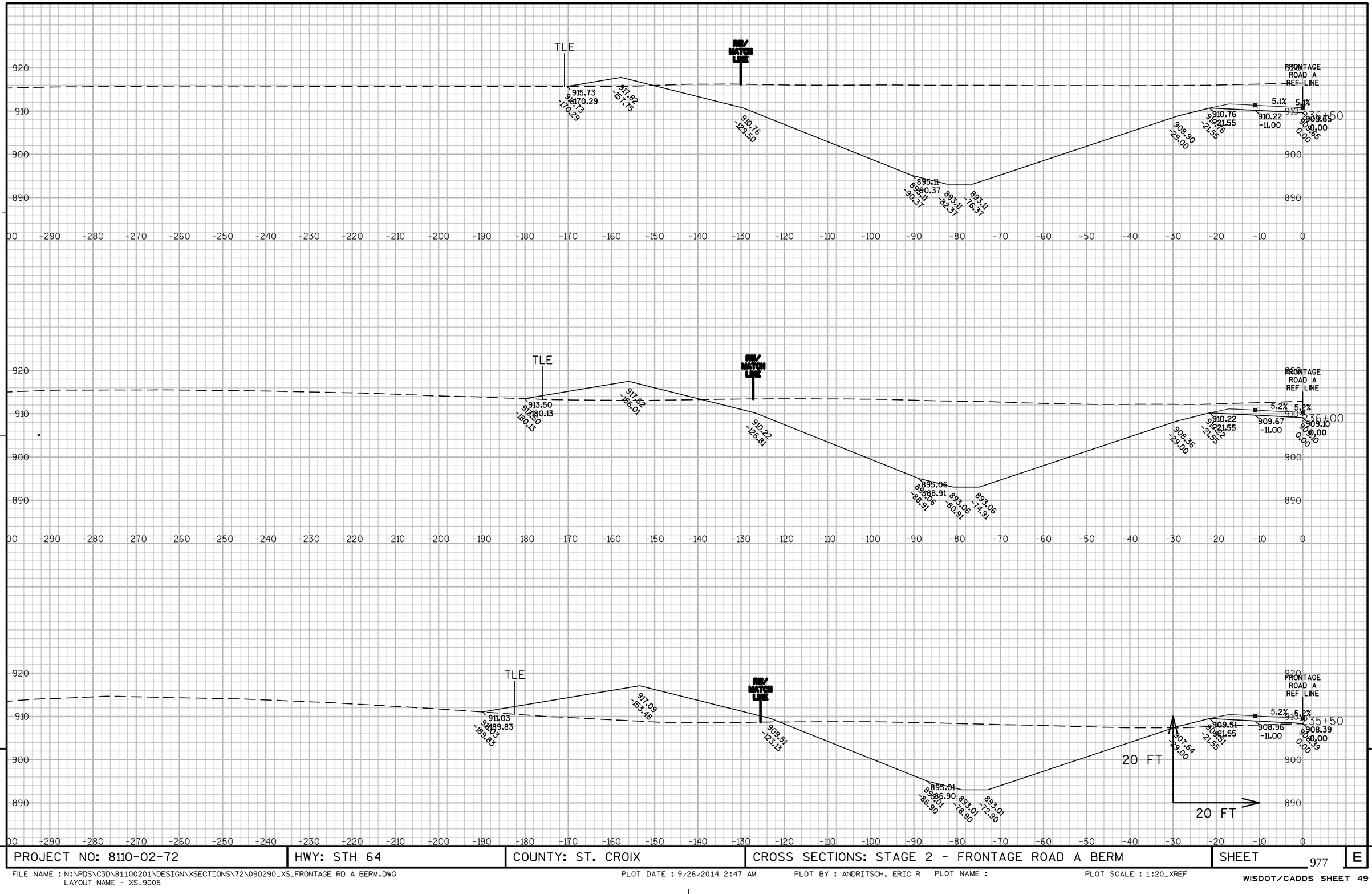
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 976	E

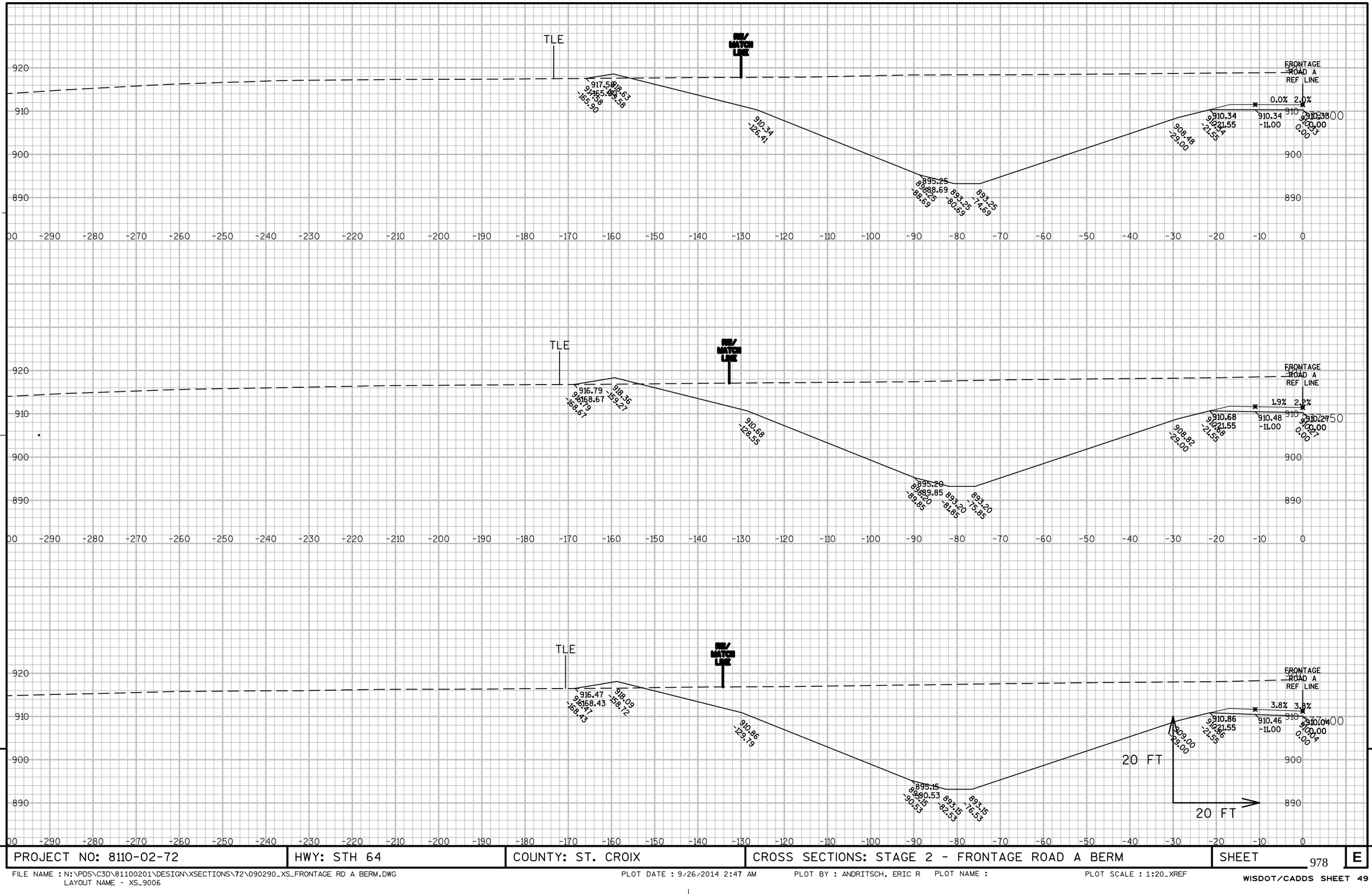
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9004

PLOT DATE : 9/26/2014 2:47 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 977	E



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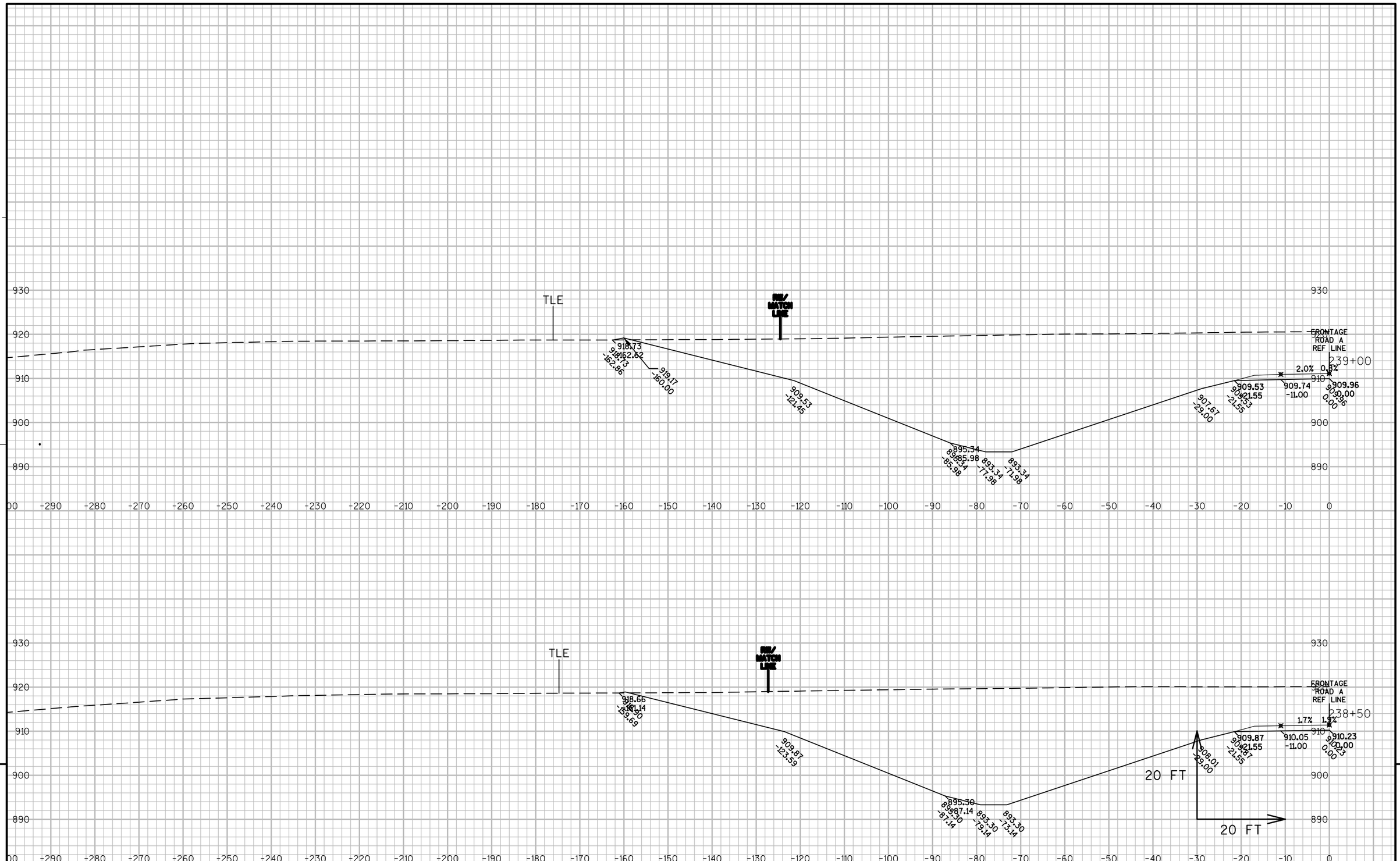
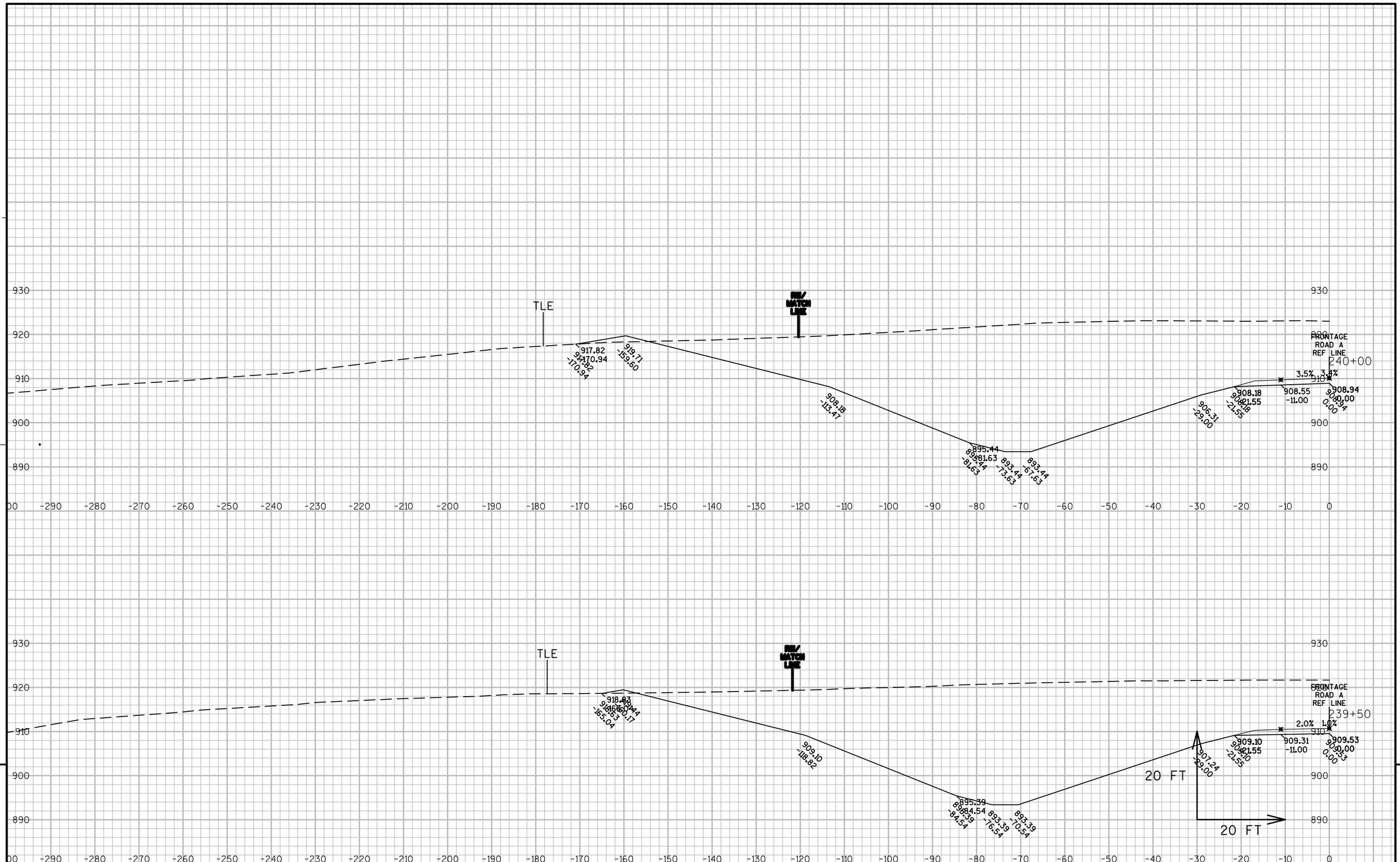
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 978	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9006
PLOT DATE : 9/26/2014 2:47 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 979 E

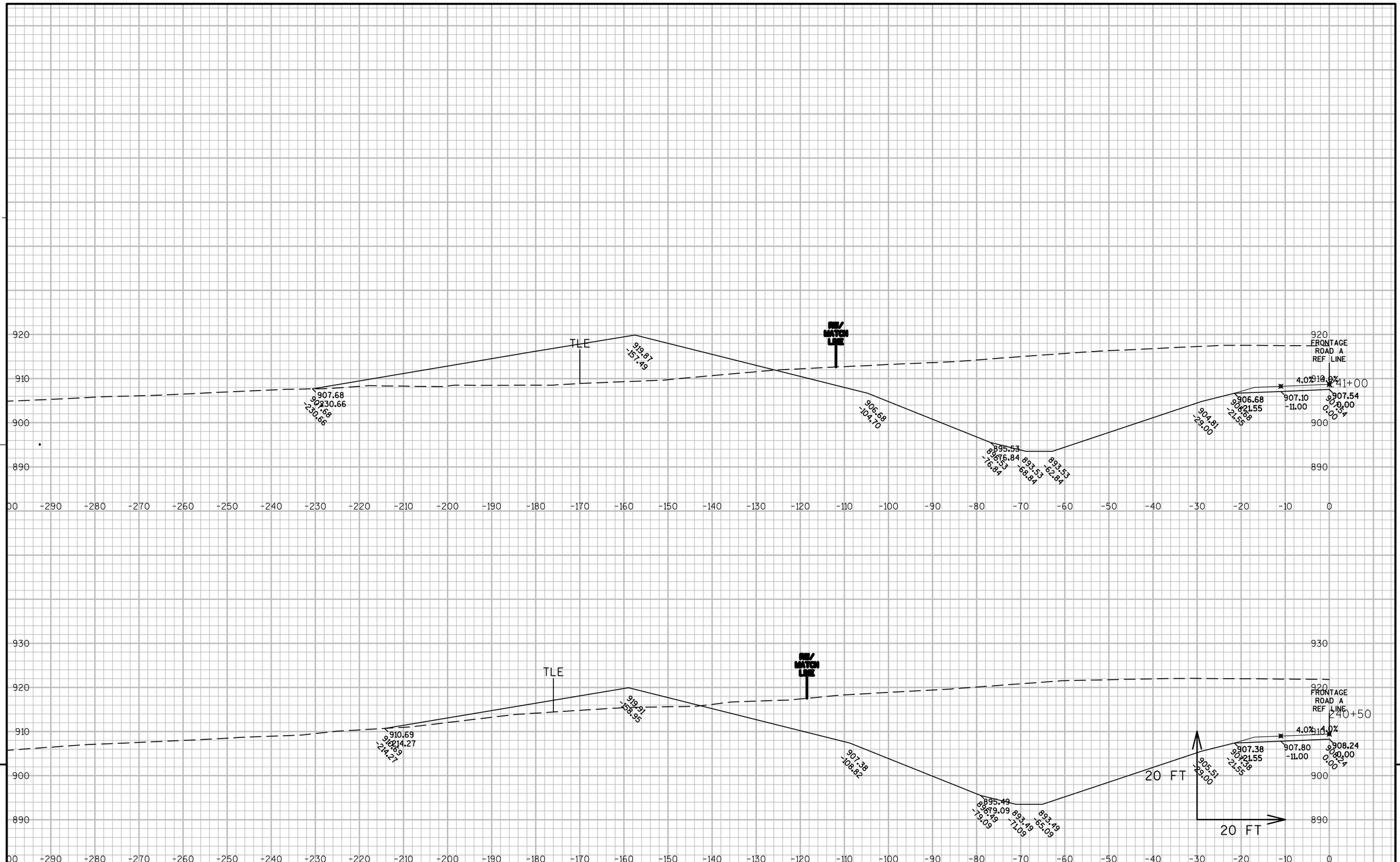


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 980	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9008

PLOT DATE : 9/26/2014 2:48 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 981	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9009

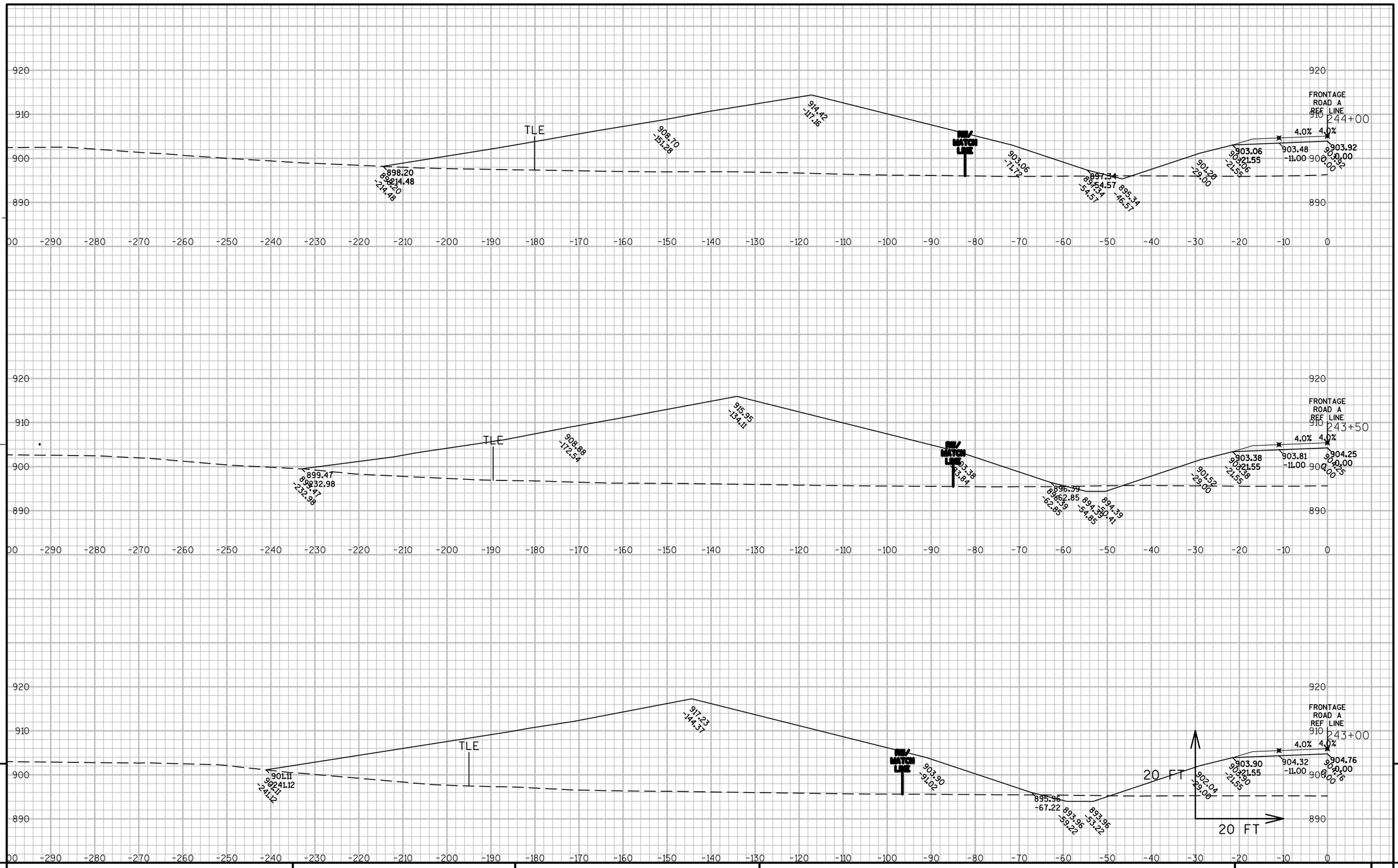
PLOT DATE : 9/26/2014 2:48 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 982	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9010

PLOT DATE : 9/26/2014 2:48 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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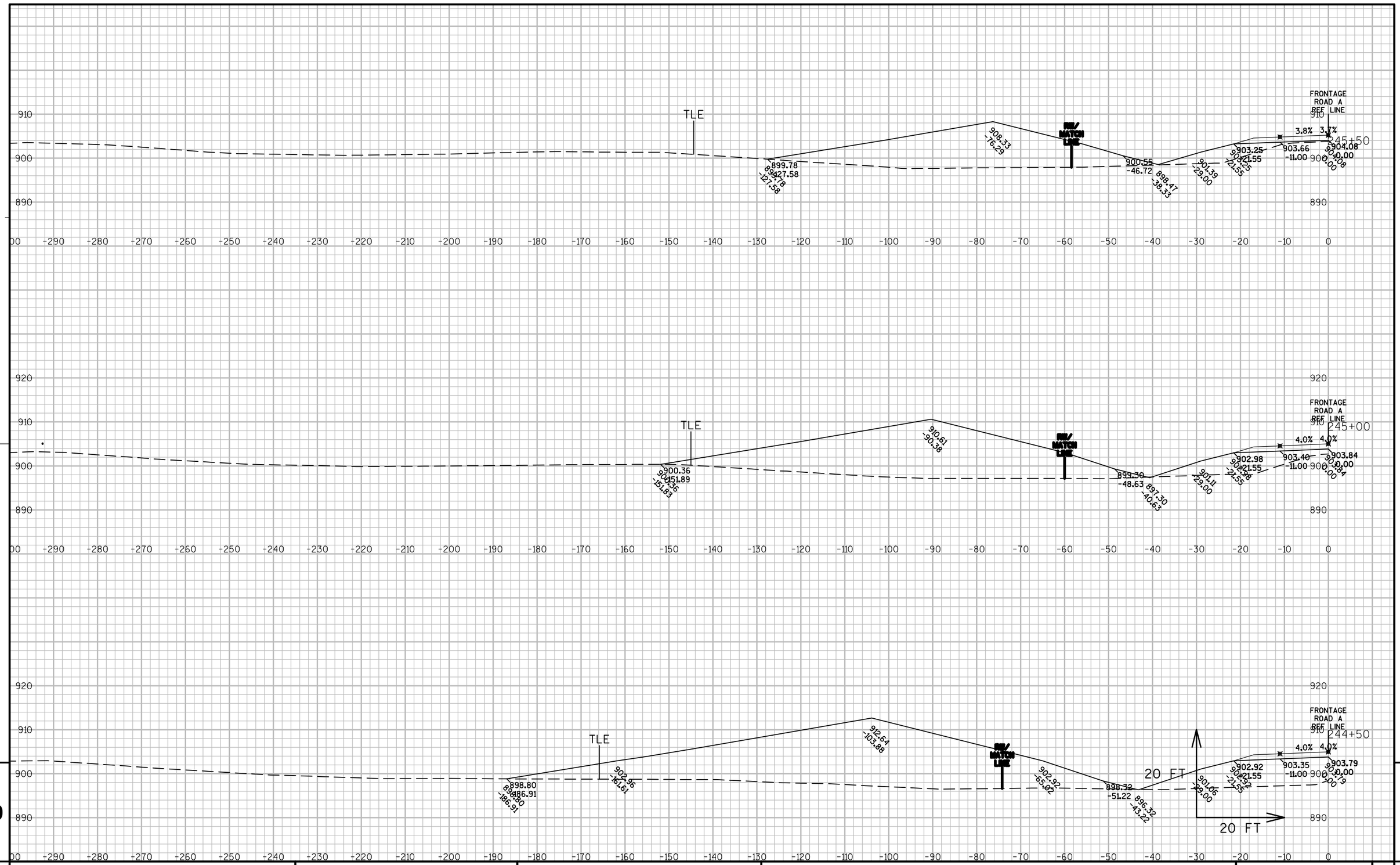
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 983	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9011

PLOT DATE : 9/26/2014 2:48 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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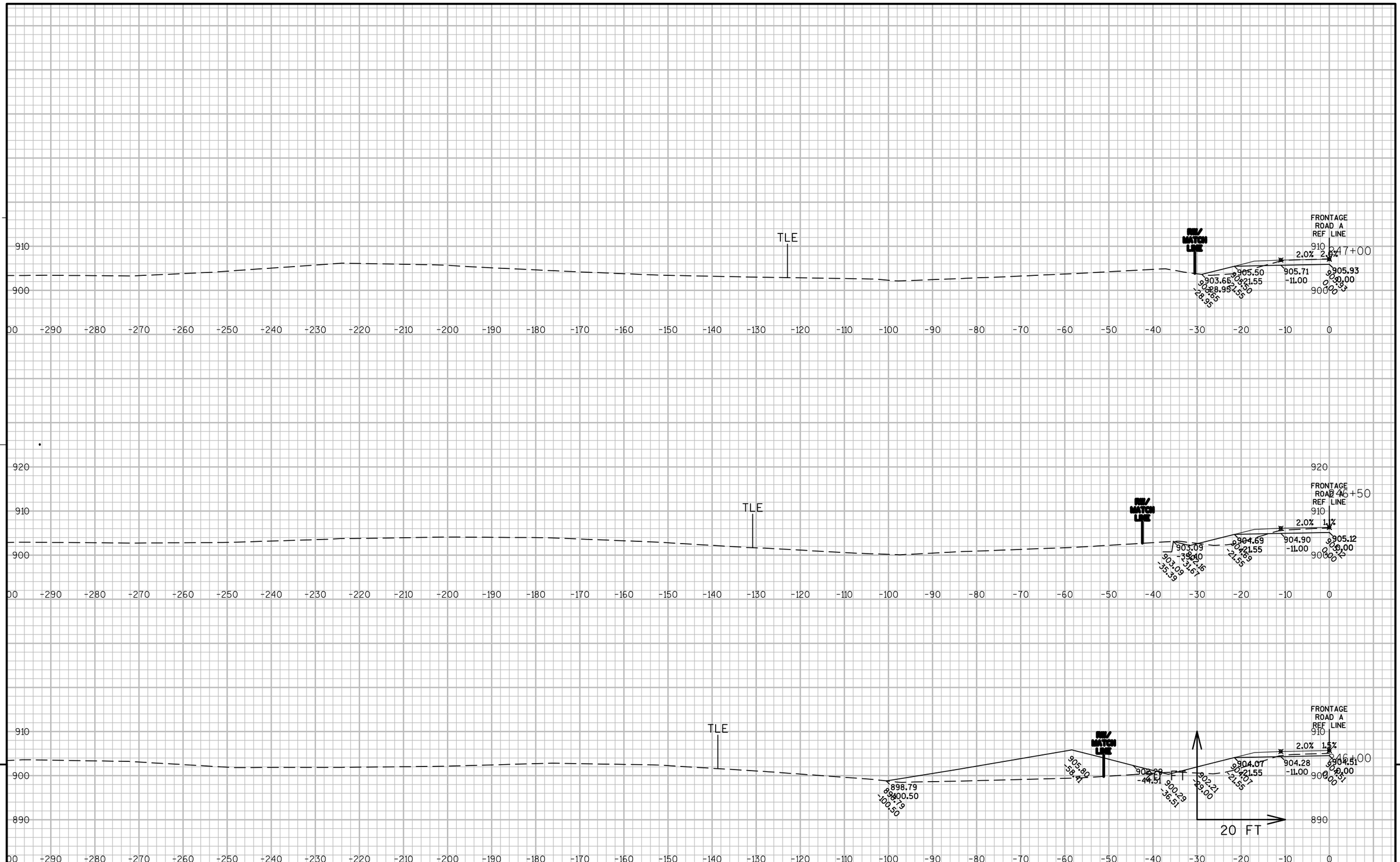
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 984	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9012

PLOT DATE : 9/26/2014 2:48 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

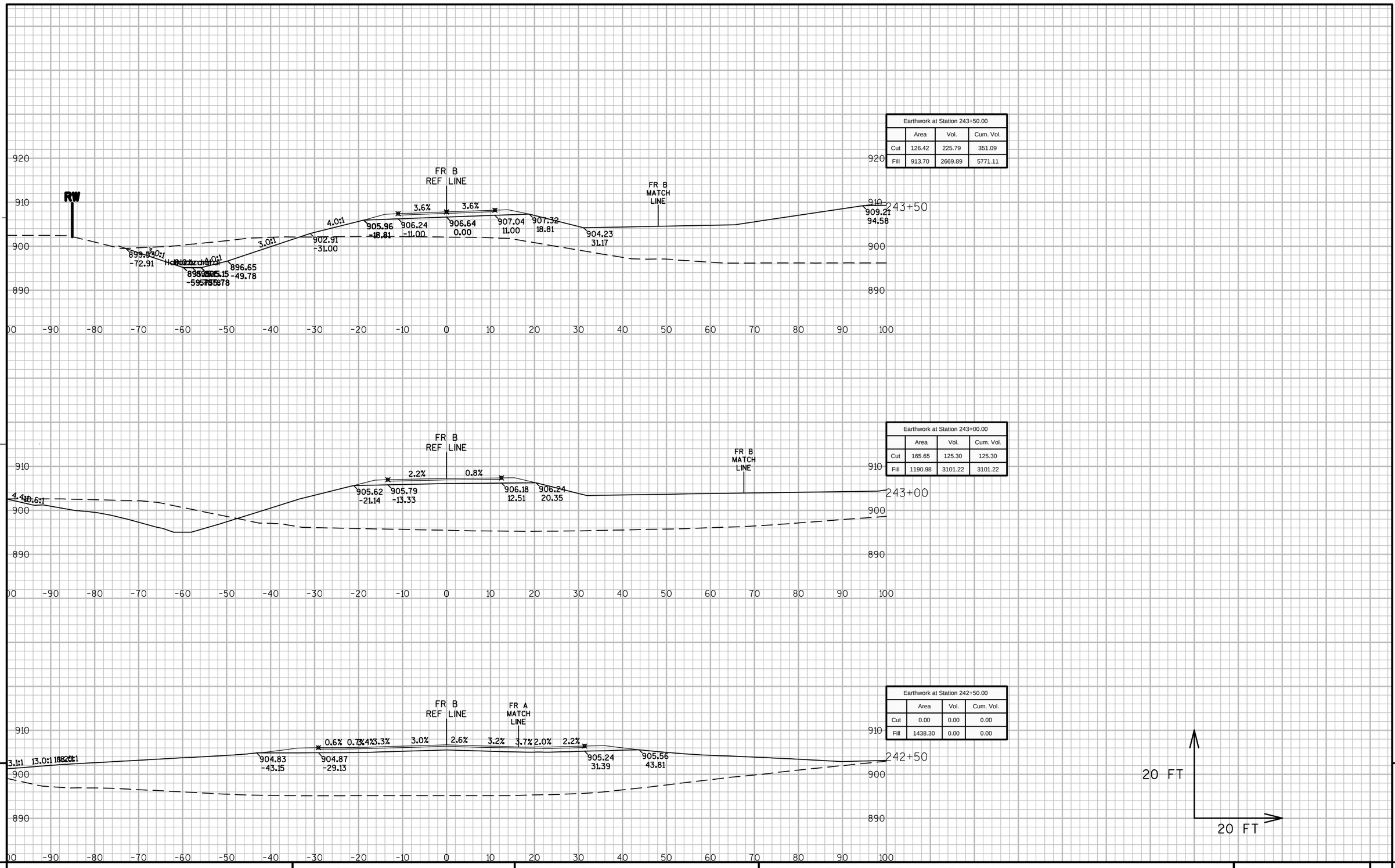


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 - FRONTAGE ROAD A BERM	SHEET 985 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090290_XS_FRONTAGE RD A BERM.DWG
LAYOUT NAME - XS_9013

PLOT DATE : 9/26/2014 2:48 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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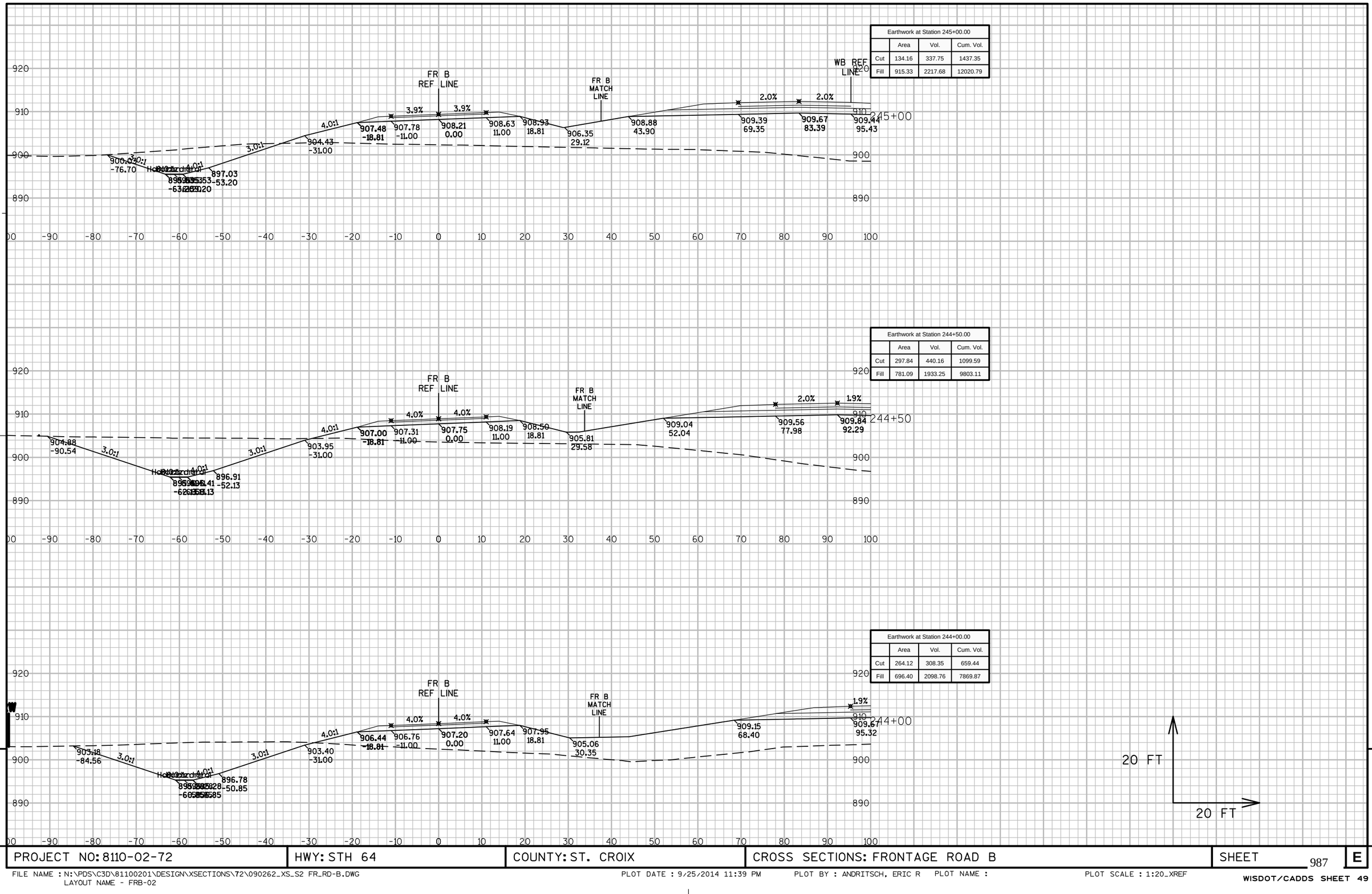
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 986	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-01

PLOT DATE : 9/25/2014 11:39 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

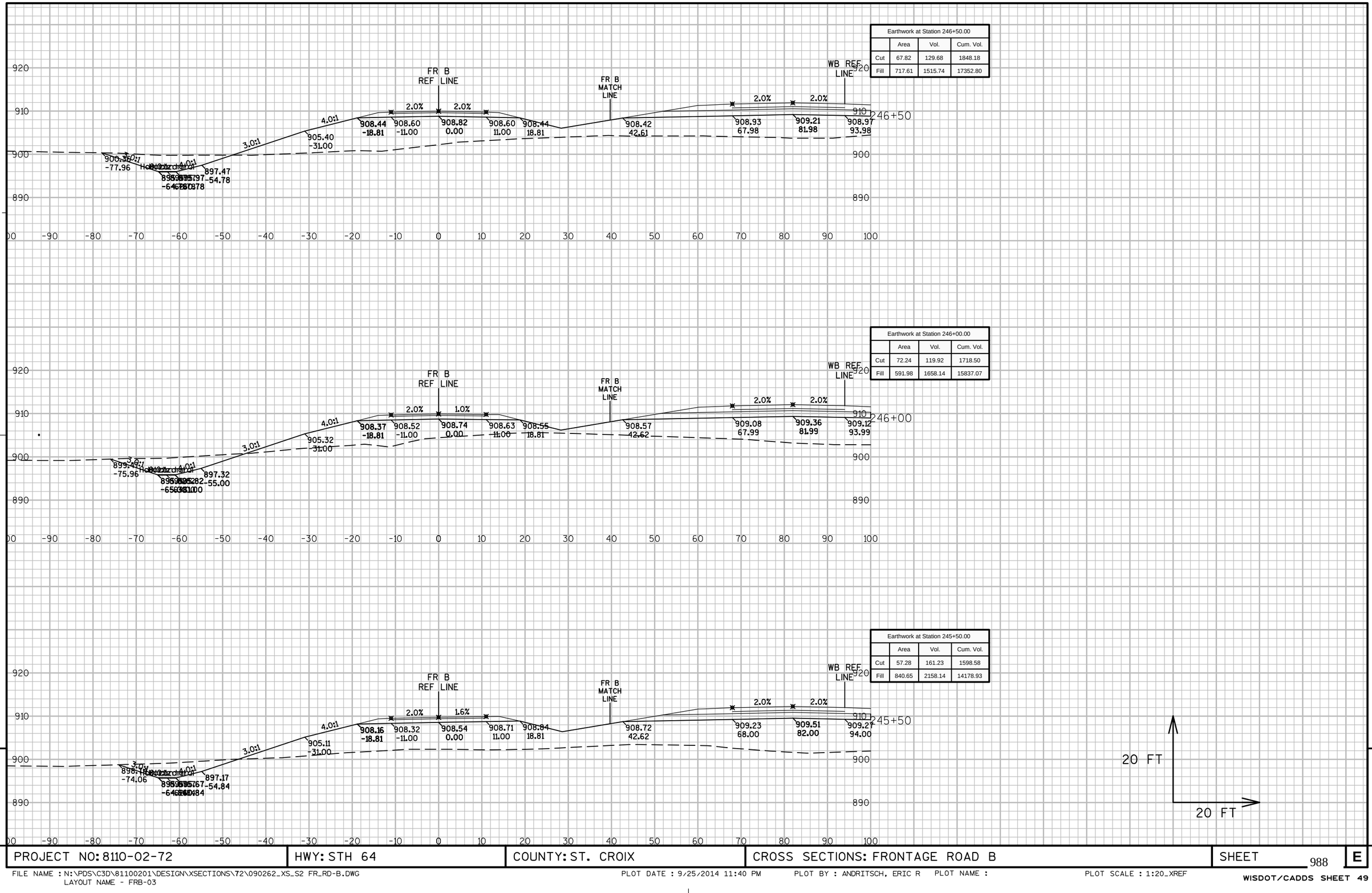


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 987	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-02

PLOT DATE : 9/25/2014 11:39 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



Earthwork at Station 246+50.00

	Area	Vol.	Cum. Vol.
Cut	67.82	129.68	1848.18
Fill	717.61	1515.74	17352.80

Earthwork at Station 246+00.00

	Area	Vol.	Cum. Vol.
Cut	72.24	119.92	1718.50
Fill	591.98	1658.14	15837.07

Earthwork at Station 245+50.00

	Area	Vol.	Cum. Vol.
Cut	57.28	161.23	1598.58
Fill	840.65	2158.14	14178.93

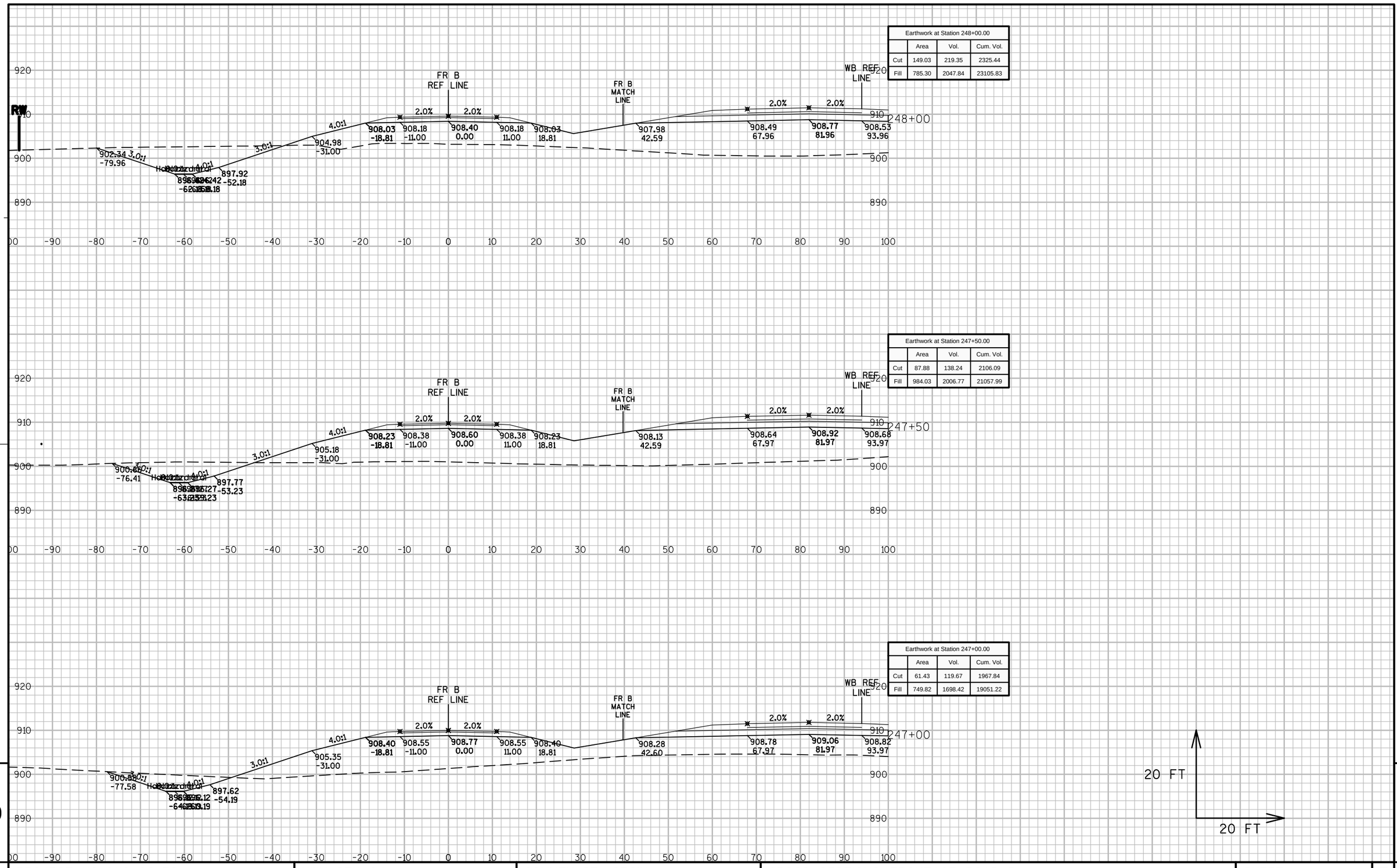
9 9

PROJECT NO: 8110-02-72 | HWY: STH 64 | COUNTY: ST. CROIX | CROSS SECTIONS: FRONTAGE ROAD B | SHEET 988 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-03

PLOT DATE : 9/25/2014 11:40 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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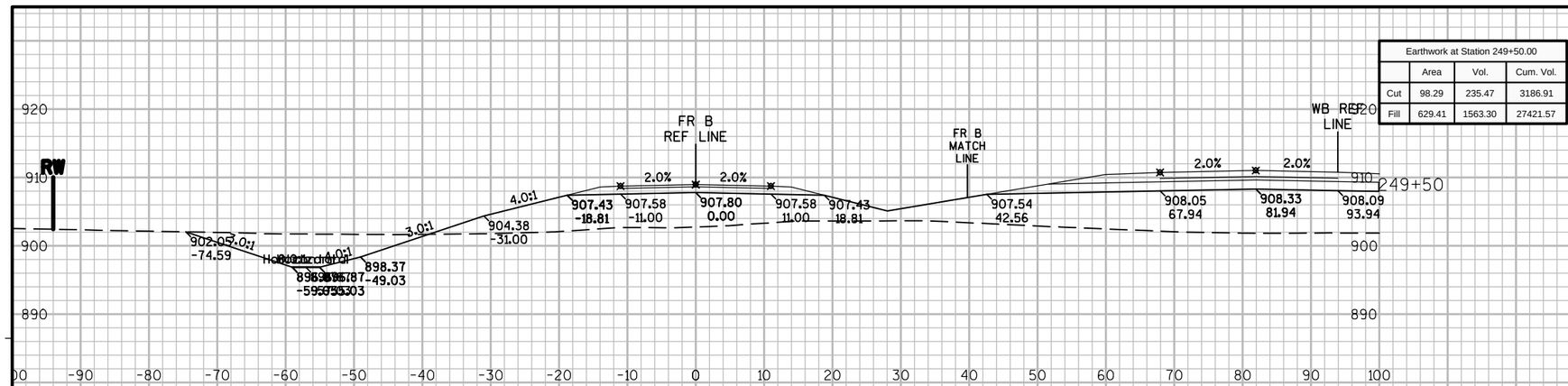
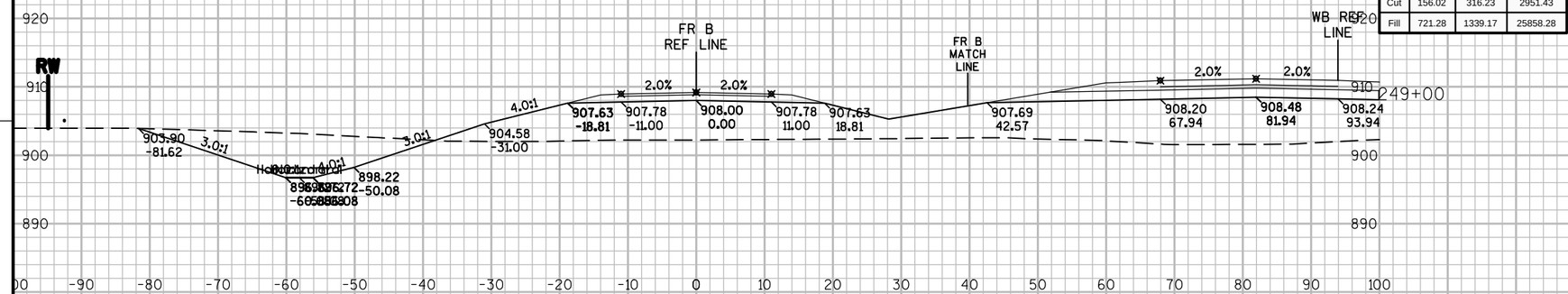
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 989	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-04

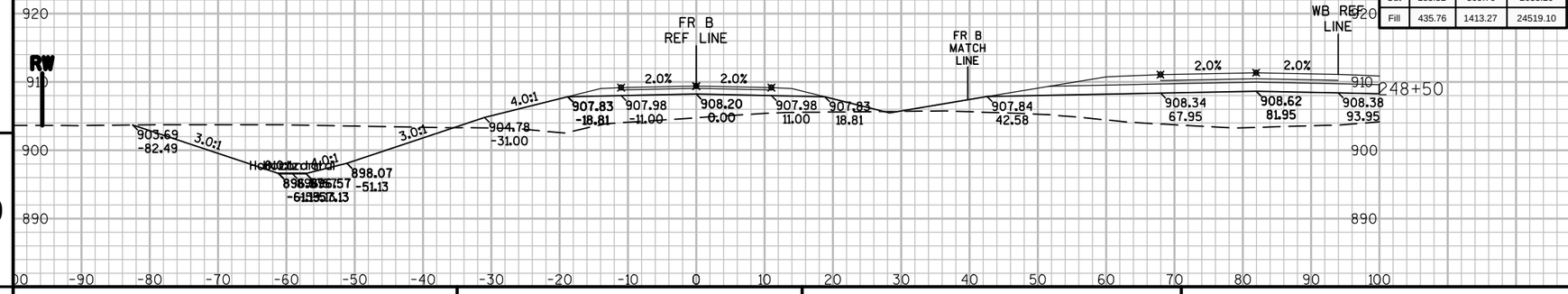
PLOT DATE : 9/25/2014 11:40 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



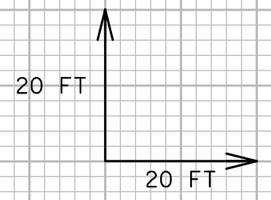
Earthwork at Station 249+50.00			
	Area	Vol.	Cum. Vol.
Cut	98.29	235.47	3186.91
Fill	629.41	1563.30	27421.57



Earthwork at Station 249+00.00			
	Area	Vol.	Cum. Vol.
Cut	156.02	316.23	2951.43
Fill	721.28	1339.17	25858.28



Earthwork at Station 248+50.00			
	Area	Vol.	Cum. Vol.
Cut	185.52	309.76	2635.20
Fill	435.76	1413.27	24519.10



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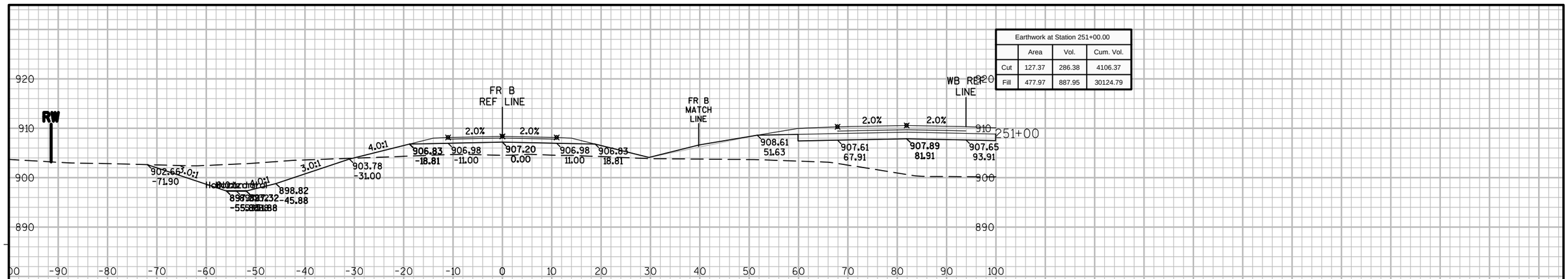
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 990	E

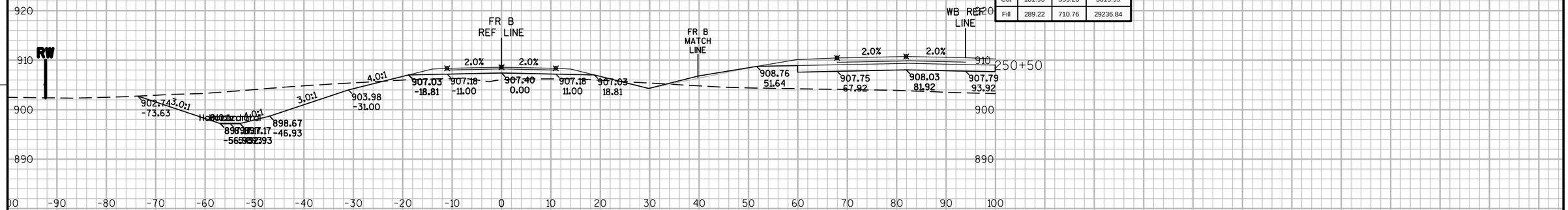
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-05

PLOT DATE : 9/25/2014 11:40 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

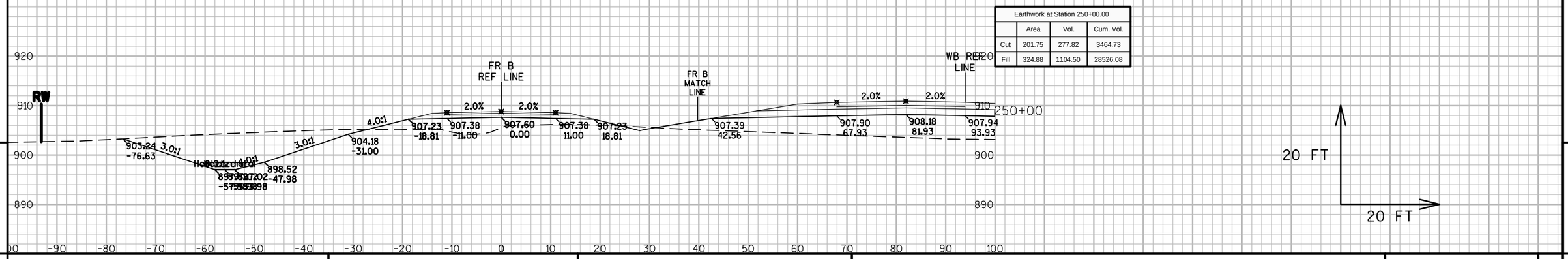
WISDOT/CADDS SHEET 49



Earthwork at Station 251+00.00			
	Area	Vol.	Cum. Vol.
Cut	127.37	286.38	4106.37
Fill	477.97	887.95	30124.79



Earthwork at Station 250+50.00			
	Area	Vol.	Cum. Vol.
Cut	181.93	355.26	3819.99
Fill	289.22	710.76	29236.84



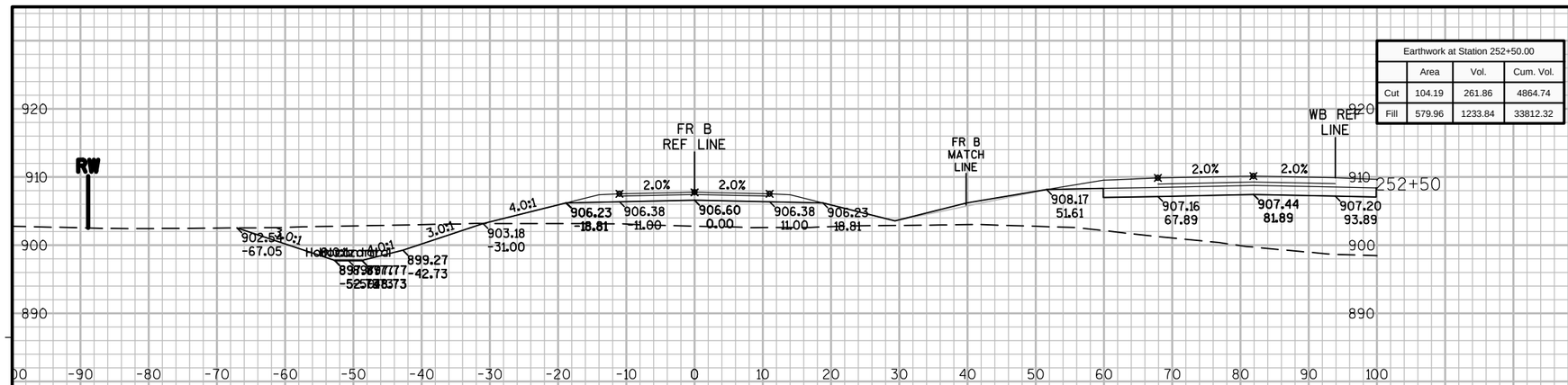
Earthwork at Station 250+00.00			
	Area	Vol.	Cum. Vol.
Cut	201.75	277.82	3464.73
Fill	324.88	1104.50	28526.08

9 9

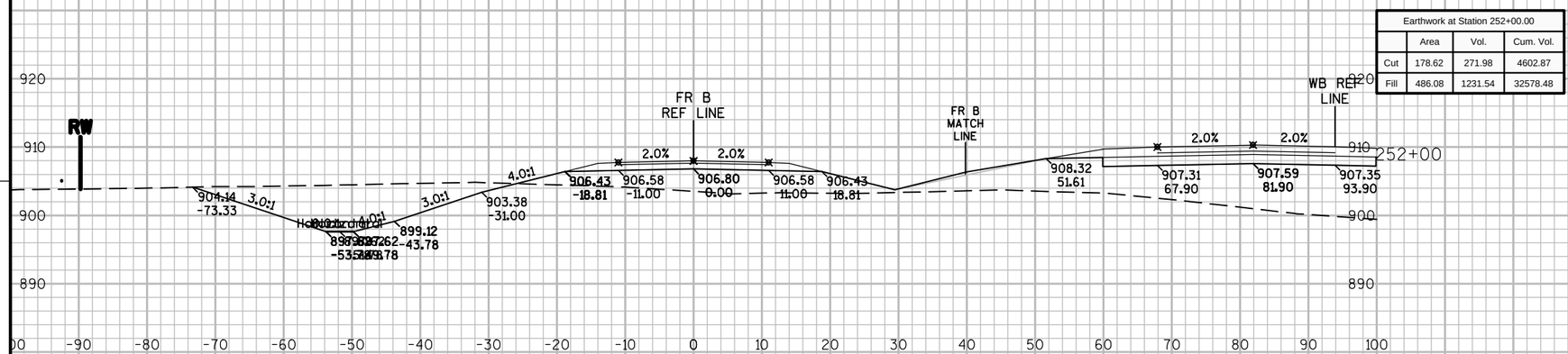
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 991	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-06

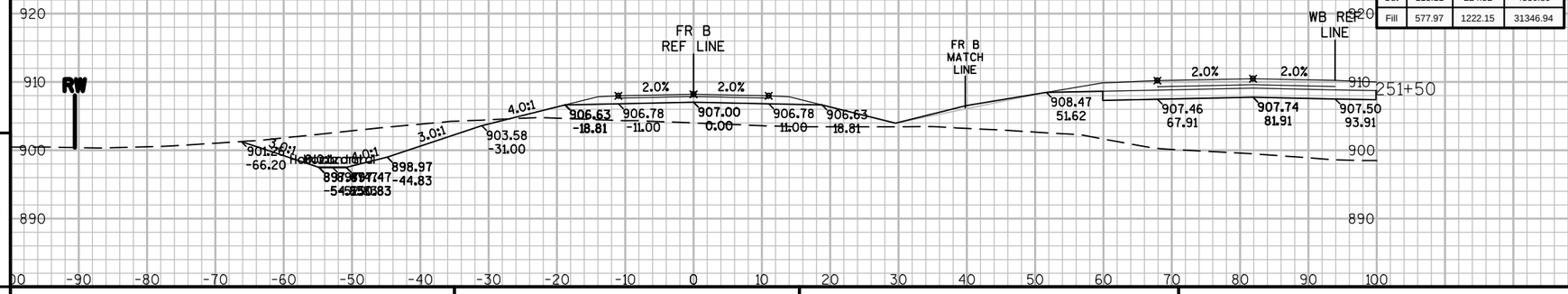
PLOT DATE : 9/25/2014 11:40 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



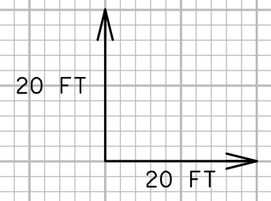
Earthwork at Station 252+50.00			
	Area	Vol.	Cum. Vol.
Cut	104.19	261.86	4864.74
Fill	579.96	1233.84	33812.32



Earthwork at Station 252+00.00			
	Area	Vol.	Cum. Vol.
Cut	178.62	271.98	4602.87
Fill	486.08	1231.54	32578.48



Earthwork at Station 251+50.00			
	Area	Vol.	Cum. Vol.
Cut	115.11	224.52	4330.89
Fill	577.97	1222.15	31346.94



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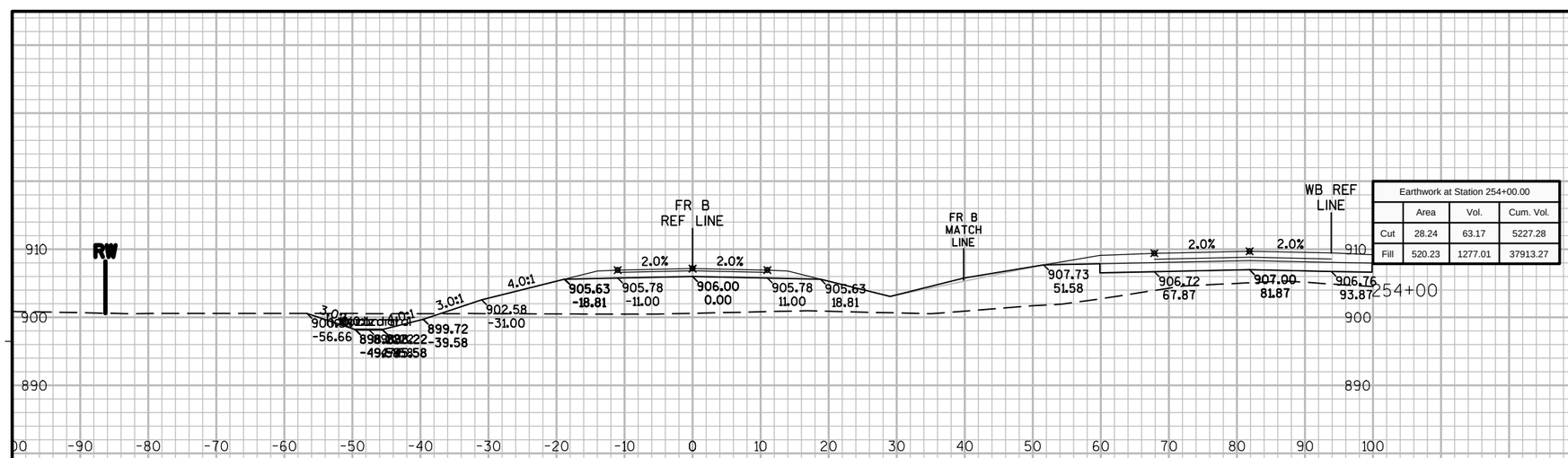
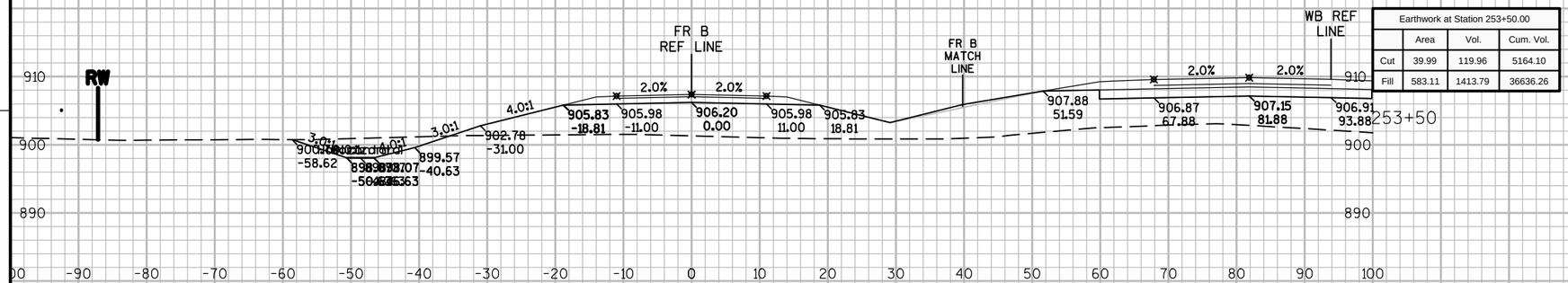
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 992	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-07

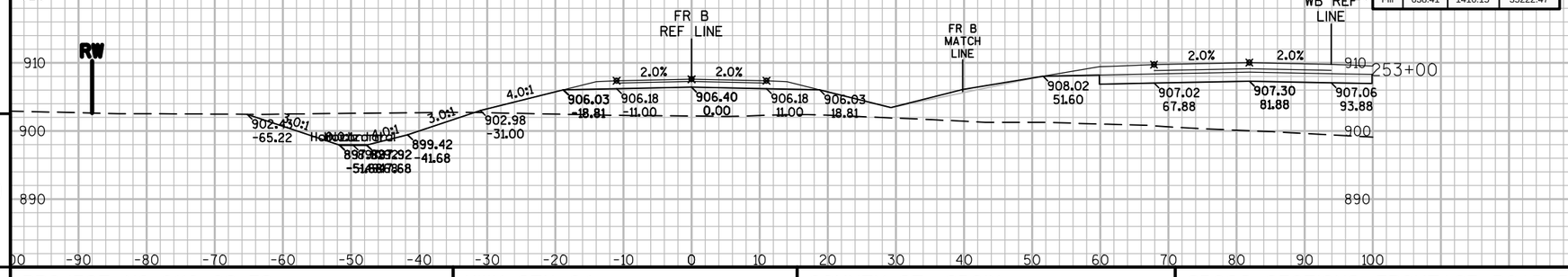
PLOT DATE : 9/25/2014 11:41 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



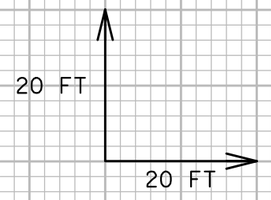
Earthwork at Station 254+00.00			
	Area	Vol.	Cum. Vol.
Cut	28.24	63.17	5227.28
Fill	520.23	1277.01	37913.27



Earthwork at Station 253+50.00			
	Area	Vol.	Cum. Vol.
Cut	39.99	119.96	5164.10
Fill	583.11	1413.79	36636.26



Earthwork at Station 253+00.00			
	Area	Vol.	Cum. Vol.
Cut	89.57	179.41	5044.14
Fill	638.41	1410.15	35222.47



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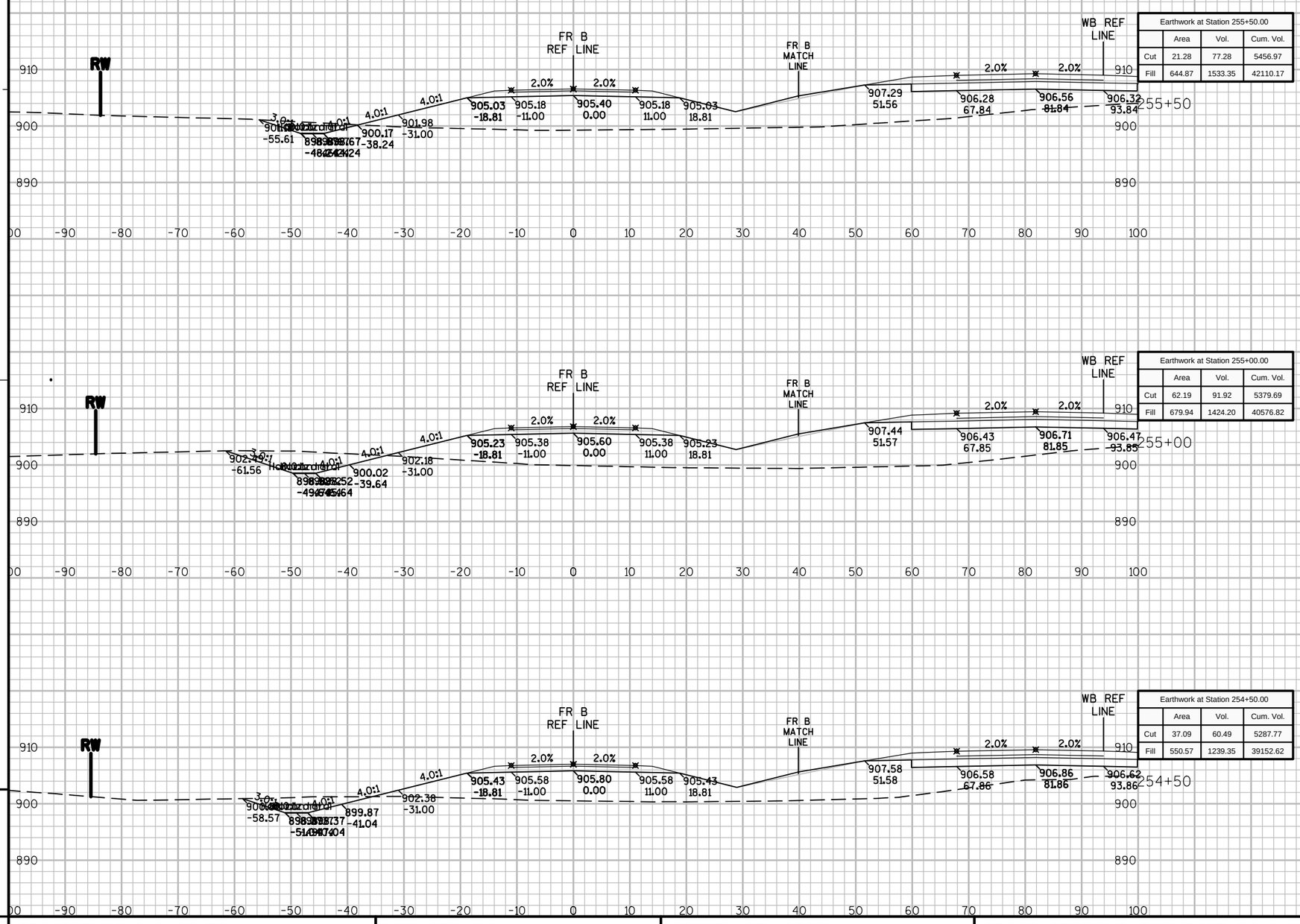
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 993	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-08

PLOT DATE : 9/25/2014 11:41 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

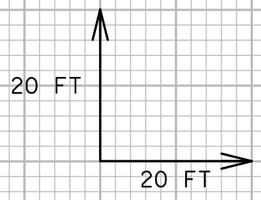
WISDOT/CADDS SHEET 49



Earthwork at Station 255+50.00			
	Area	Vol.	Cum. Vol.
Cut	21.28	77.28	5456.97
Fill	644.87	1533.35	42110.17

Earthwork at Station 255+00.00			
	Area	Vol.	Cum. Vol.
Cut	62.19	91.92	5379.69
Fill	679.94	1424.20	40576.82

Earthwork at Station 254+50.00			
	Area	Vol.	Cum. Vol.
Cut	37.09	60.49	5287.77
Fill	550.57	1239.35	39152.62



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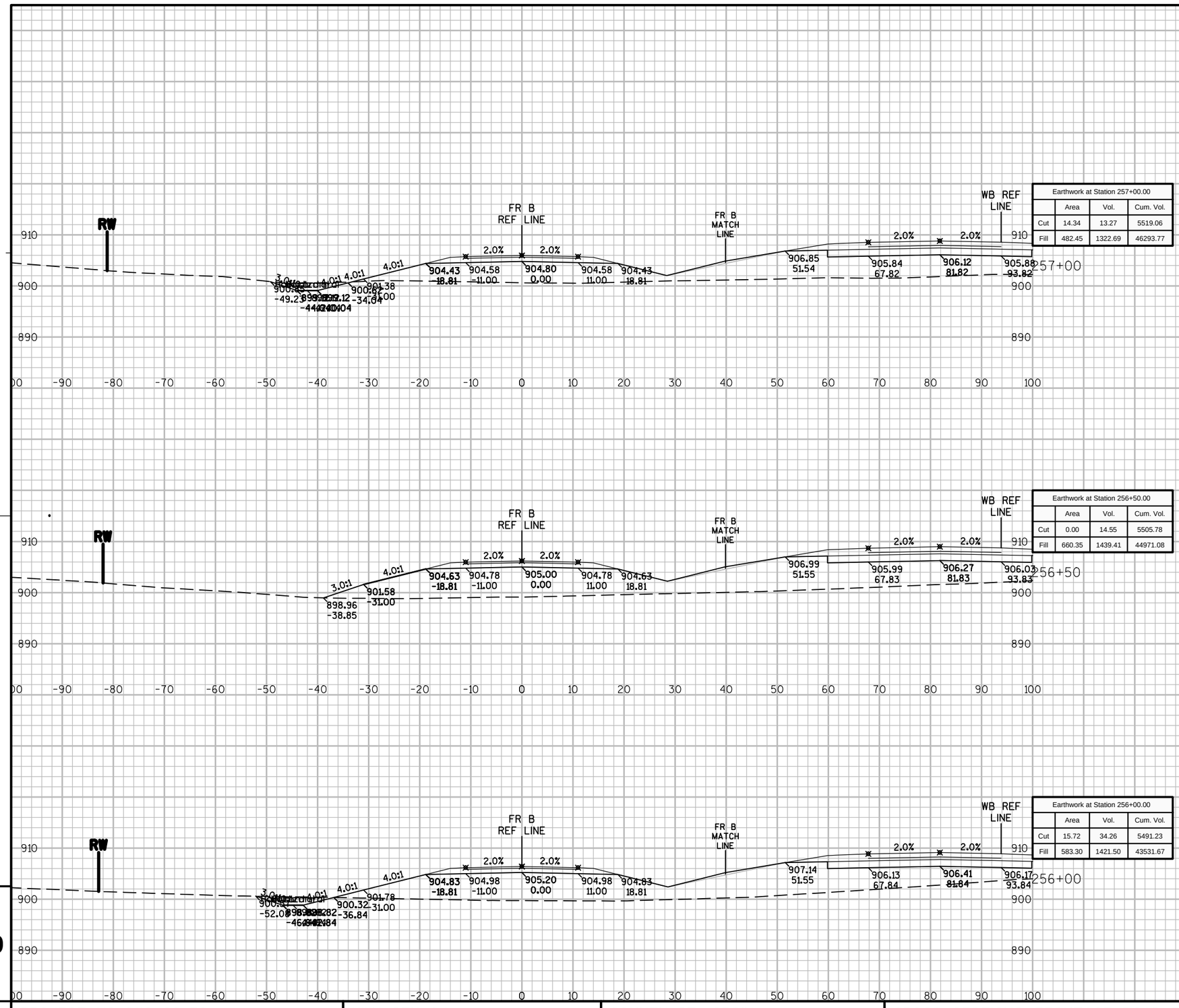
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 994	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-09

PLOT DATE : 9/25/2014 11:41 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



Earthwork at Station 257+00.00

	Area	Vol.	Cum. Vol.
Cut	14.34	13.27	5519.06
Fill	482.45	1322.69	46293.77

Earthwork at Station 256+50.00

	Area	Vol.	Cum. Vol.
Cut	0.00	14.55	5505.78
Fill	660.35	1439.41	44971.08

Earthwork at Station 256+00.00

	Area	Vol.	Cum. Vol.
Cut	15.72	34.26	5491.23
Fill	583.30	1421.50	43531.67

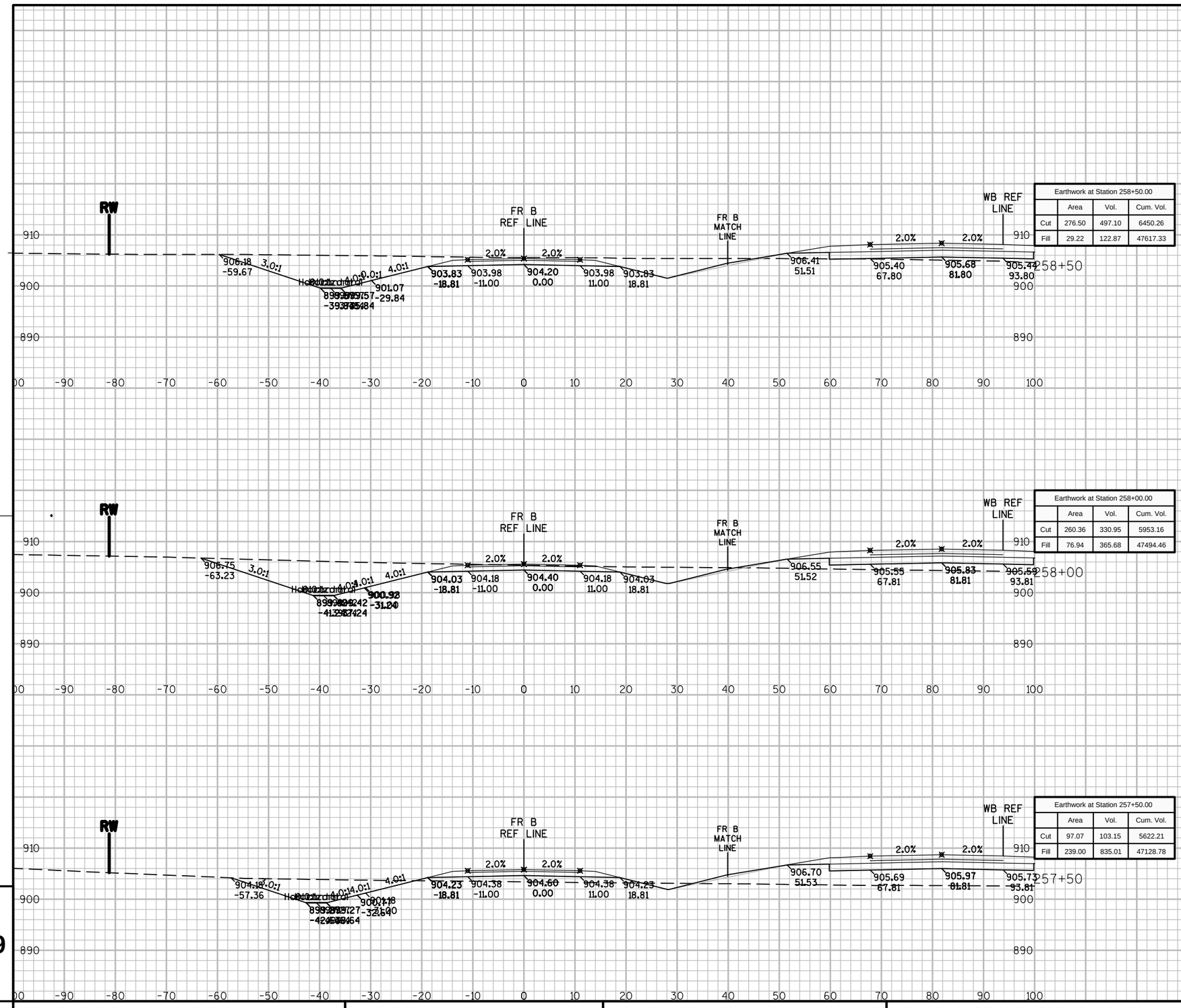
20 FT
20 FT

9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 995	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-10

PLOT DATE : 9/25/2014 11:41 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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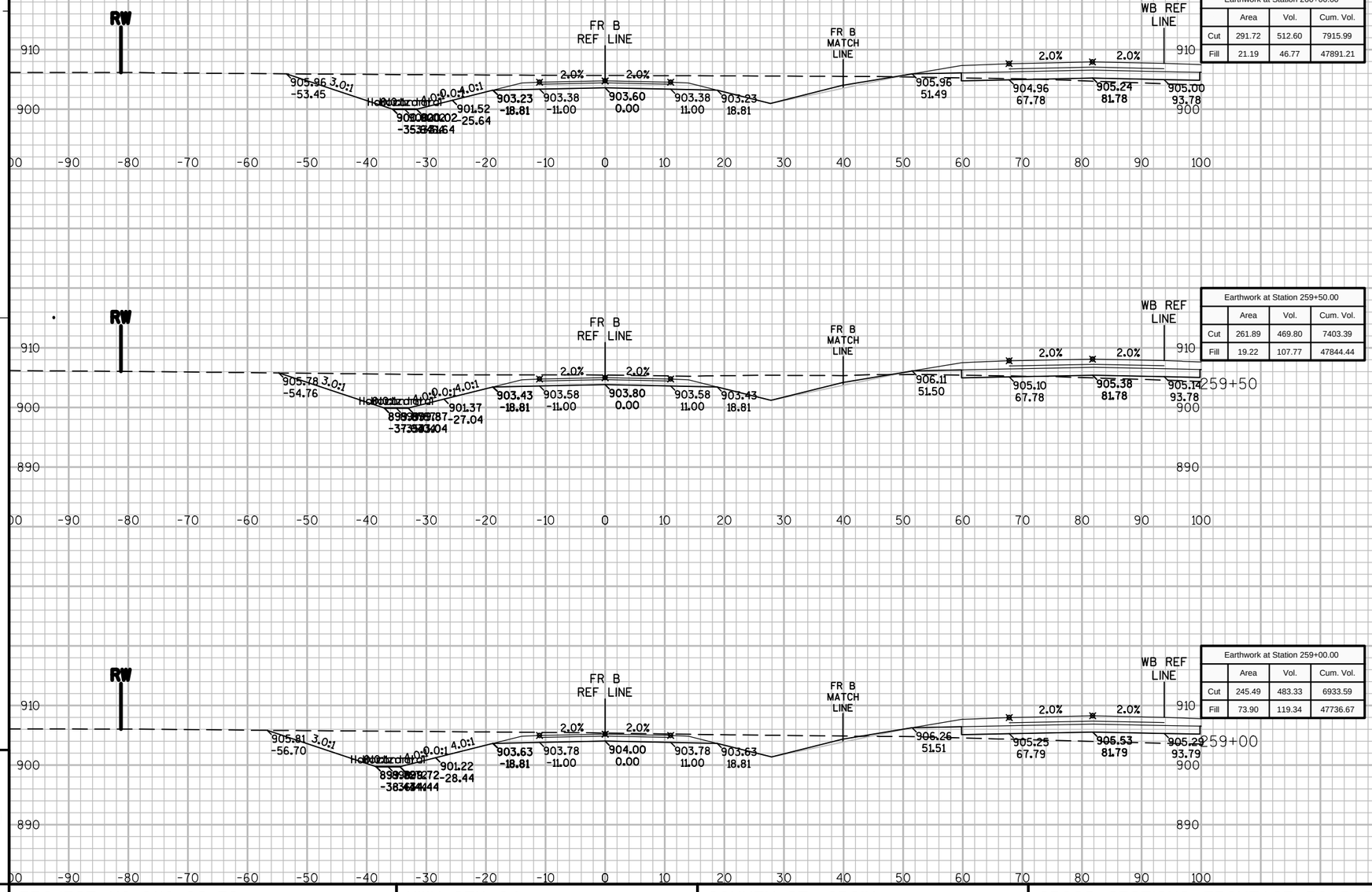
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 996	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-11

PLOT DATE : 9/25/2014 11:42 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



Earthwork at Station 260+00.00

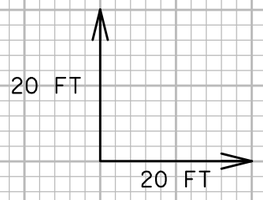
	Area	Vol.	Cum. Vol.
Cut	291.72	512.60	7915.99
Fill	21.19	46.77	47891.21

Earthwork at Station 259+50.00

	Area	Vol.	Cum. Vol.
Cut	261.89	469.80	7403.39
Fill	19.22	107.77	47844.44

Earthwork at Station 259+00.00

	Area	Vol.	Cum. Vol.
Cut	245.49	483.33	6933.59
Fill	73.90	119.34	47736.67



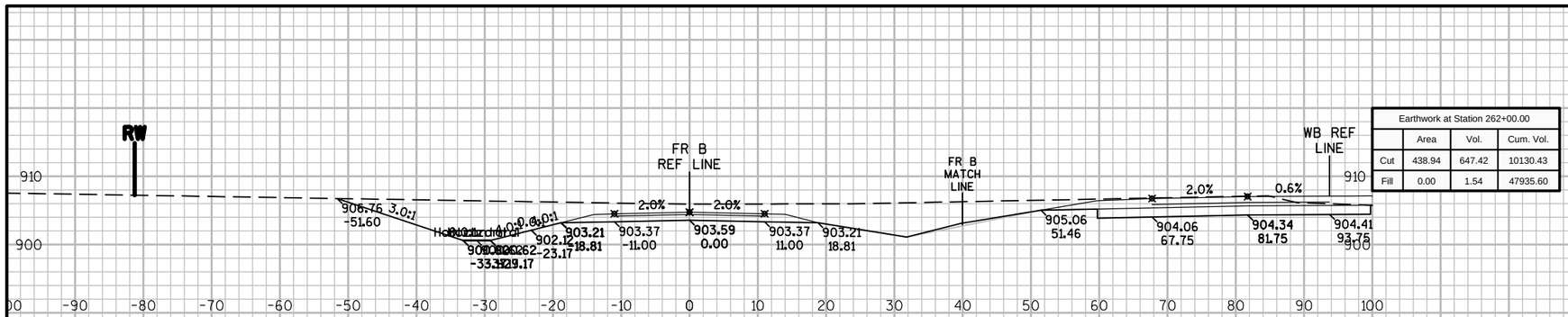
9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 997	E

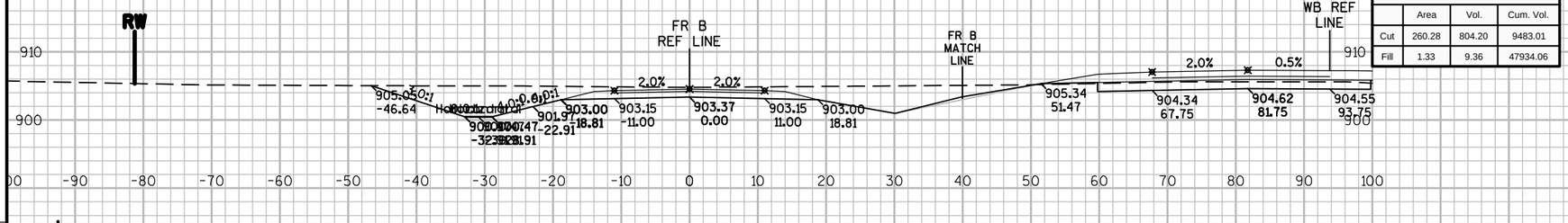
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-12

PLOT DATE : 9/25/2014 11:42 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

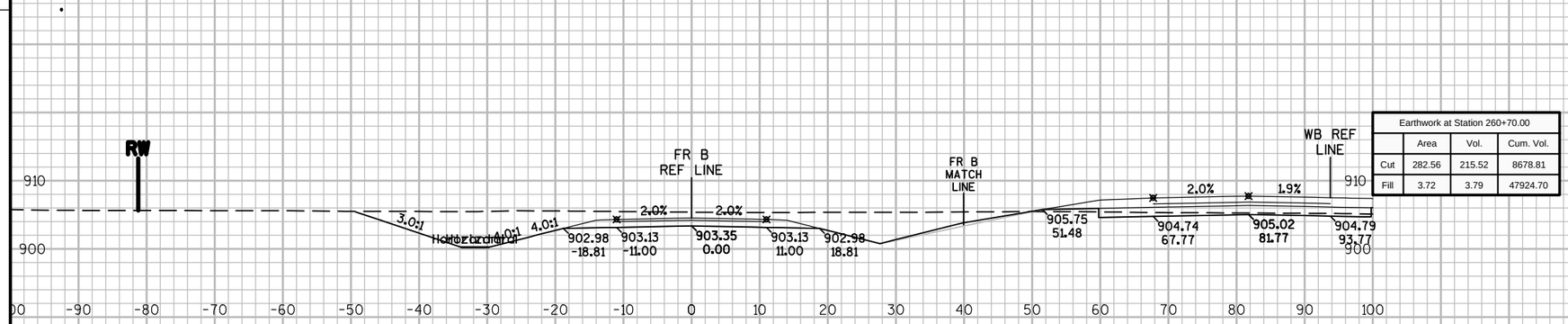
WISDOT/CADDS SHEET 49



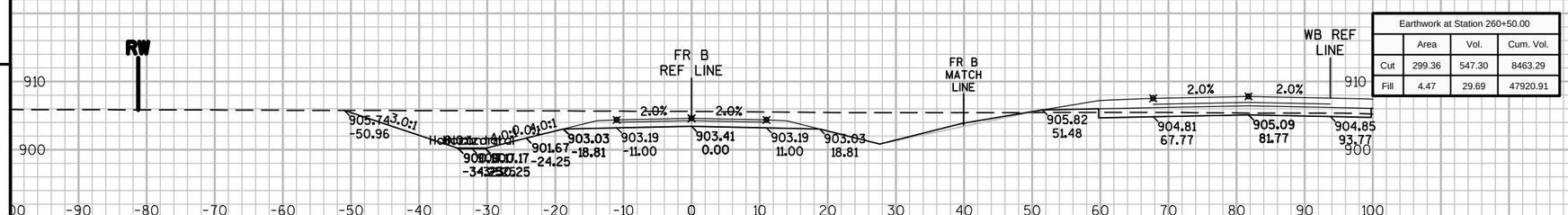
Earthwork at Station 262+00.00			
	Area	Vol.	Cum. Vol.
Cut	438.94	647.42	10130.43
Fill	0.00	1.54	47935.60



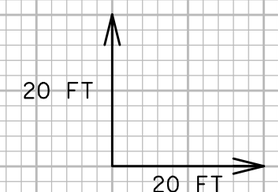
Earthwork at Station 261+50.00			
	Area	Vol.	Cum. Vol.
Cut	260.28	804.20	9483.01
Fill	1.33	9.36	47934.06



Earthwork at Station 260+70.00			
	Area	Vol.	Cum. Vol.
Cut	282.56	215.52	8678.81
Fill	3.72	3.79	47924.70



Earthwork at Station 260+50.00			
	Area	Vol.	Cum. Vol.
Cut	299.36	547.30	8463.29
Fill	4.47	29.69	47920.91



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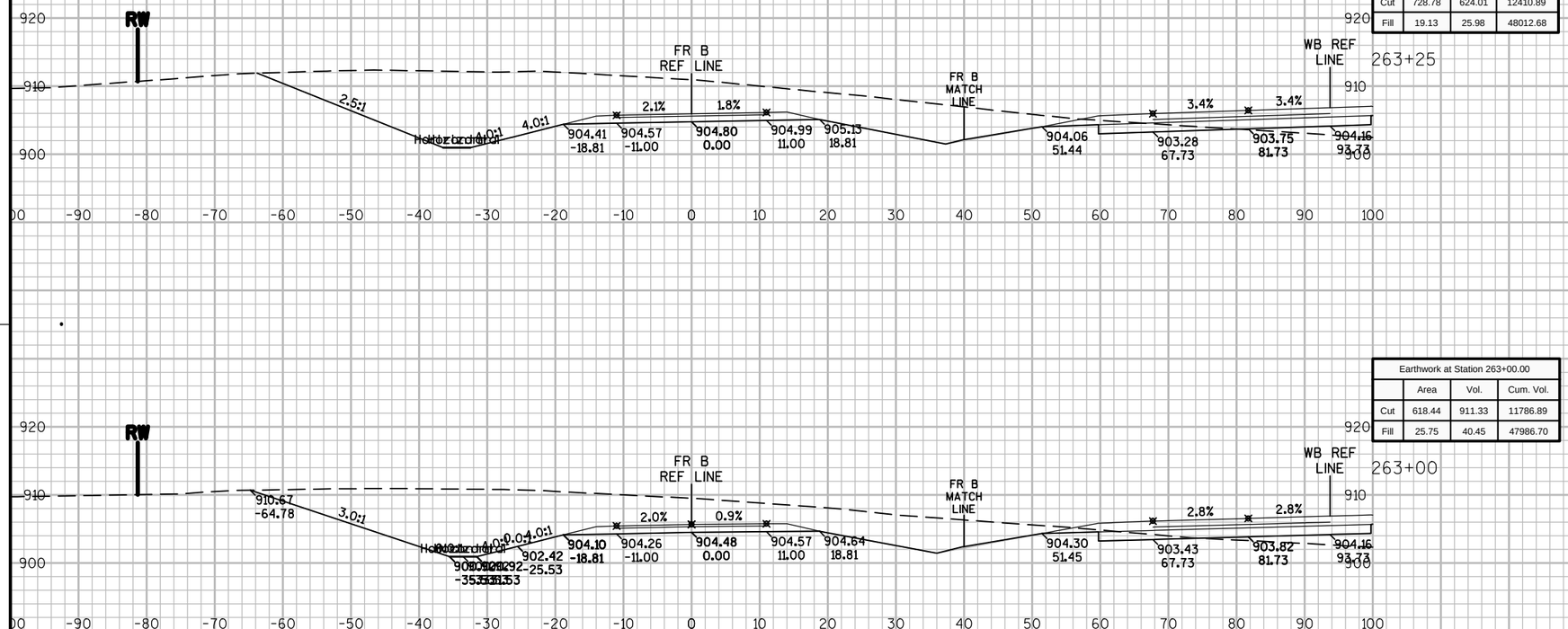
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 998	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-13

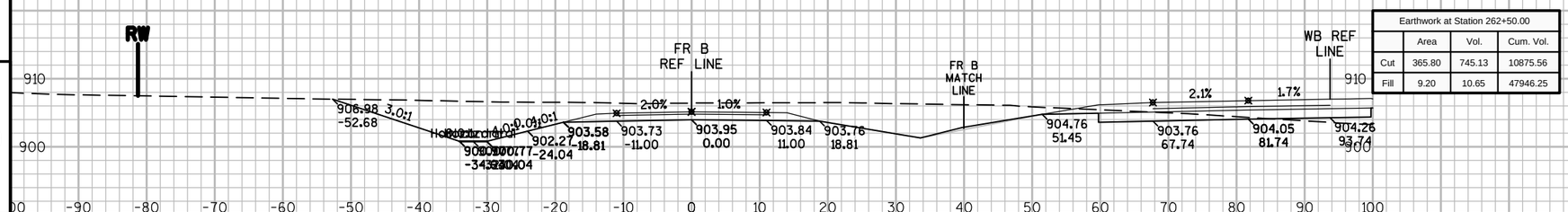
PLOT DATE : 9/25/2014 11:42 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

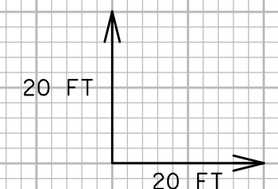


Earthwork at Station 263+25.01			
	Area	Vol.	Cum. Vol.
Cut	728.78	624.01	12410.89
Fill	19.13	25.98	48012.68

Earthwork at Station 263+00.00			
	Area	Vol.	Cum. Vol.
Cut	618.44	911.33	11786.89
Fill	25.75	40.45	47986.70



Earthwork at Station 262+50.00			
	Area	Vol.	Cum. Vol.
Cut	365.80	745.13	10875.56
Fill	9.20	10.65	47946.25



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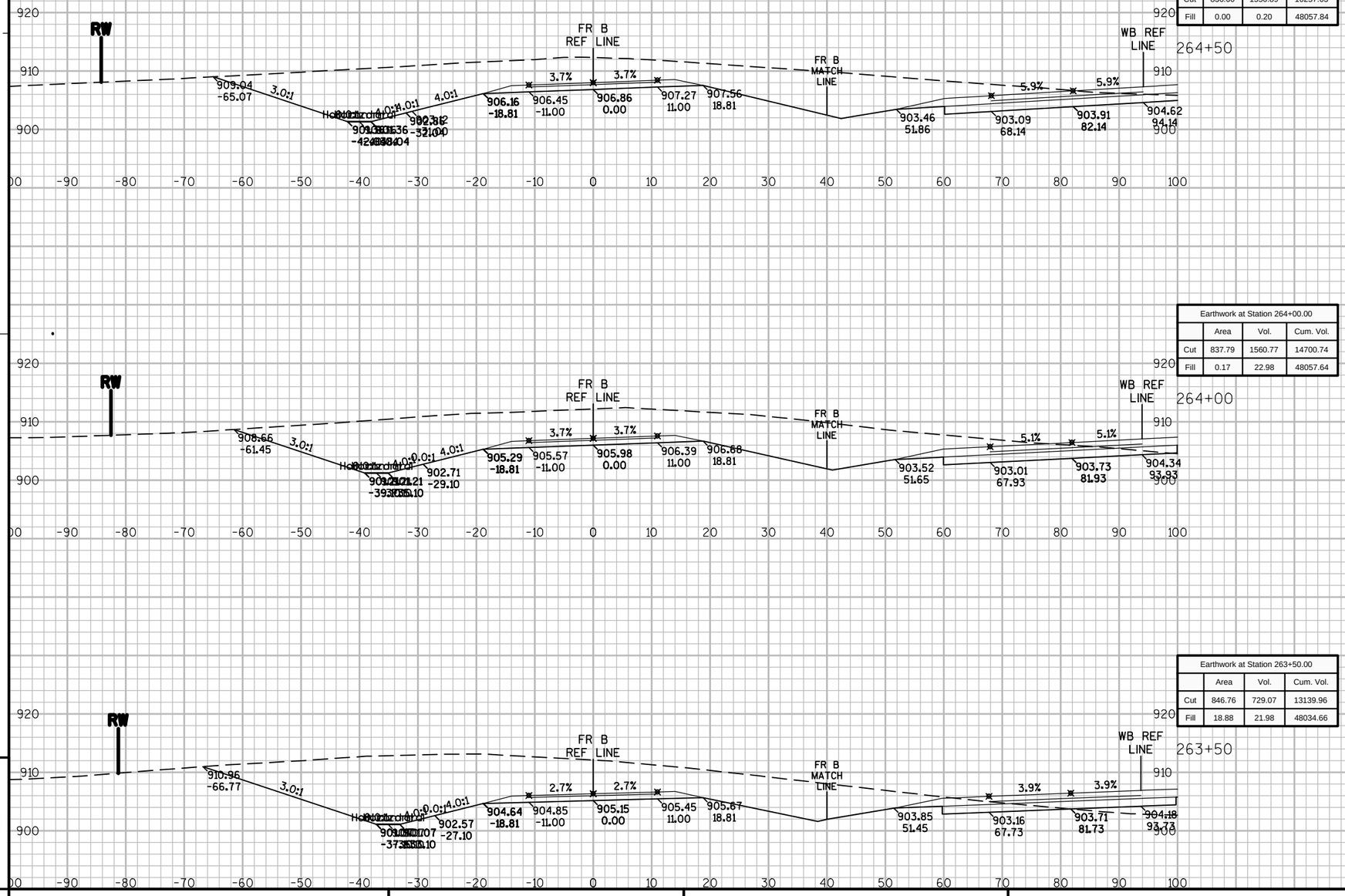
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 999	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-14

PLOT DATE : 9/25/2014 11:42 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

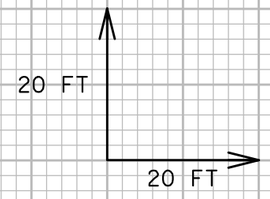
WISDOT/CADDS SHEET 49



Earthwork at Station 264+50.00			
	Area	Vol.	Cum. Vol.
Cut	836.60	1556.89	16257.63
Fill	0.00	0.20	48057.84

Earthwork at Station 264+00.00			
	Area	Vol.	Cum. Vol.
Cut	837.79	1560.77	14700.74
Fill	0.17	22.98	48057.64

Earthwork at Station 263+50.00			
	Area	Vol.	Cum. Vol.
Cut	846.76	729.07	13139.96
Fill	18.88	21.98	48034.66



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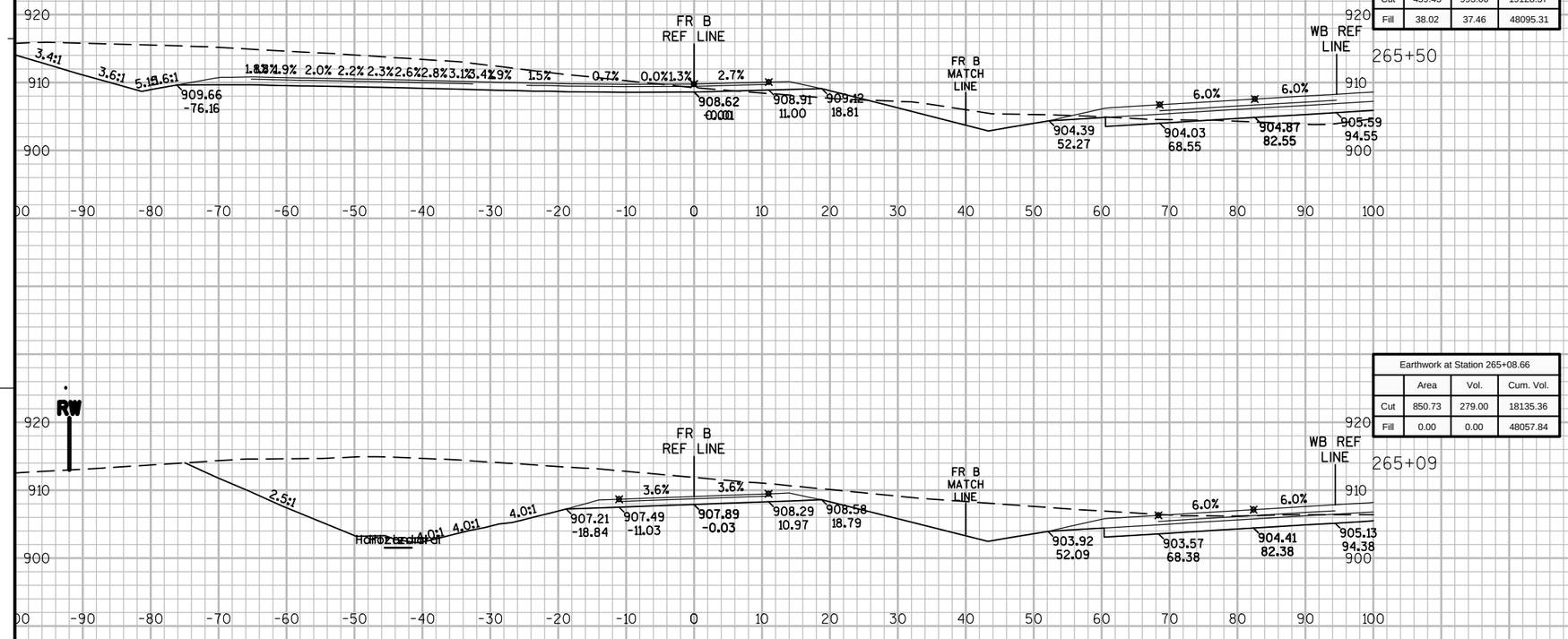
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 1000	E

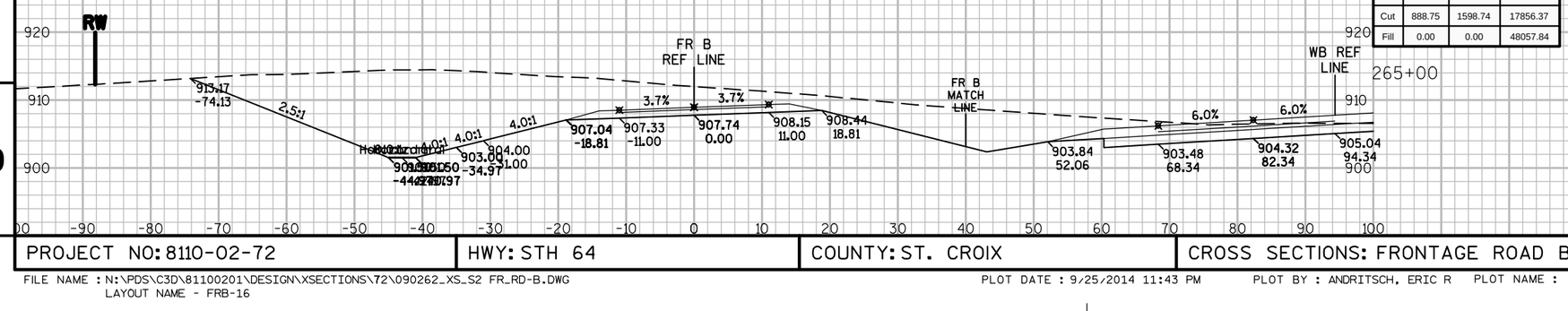
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-15

PLOT DATE : 9/25/2014 11:43 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

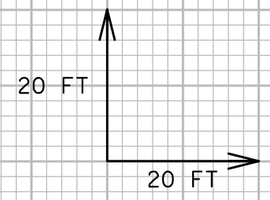


Earthwork at Station 265+50.00			
	Area	Vol.	Cum. Vol.
Cut	459.45	993.00	19128.37
Fill	38.02	37.46	48095.31

Earthwork at Station 265+08.66			
	Area	Vol.	Cum. Vol.
Cut	850.73	279.00	18135.36
Fill	0.00	0.00	48057.84



Earthwork at Station 265+00.00			
	Area	Vol.	Cum. Vol.
Cut	888.75	1598.74	17856.37
Fill	0.00	0.00	48057.84



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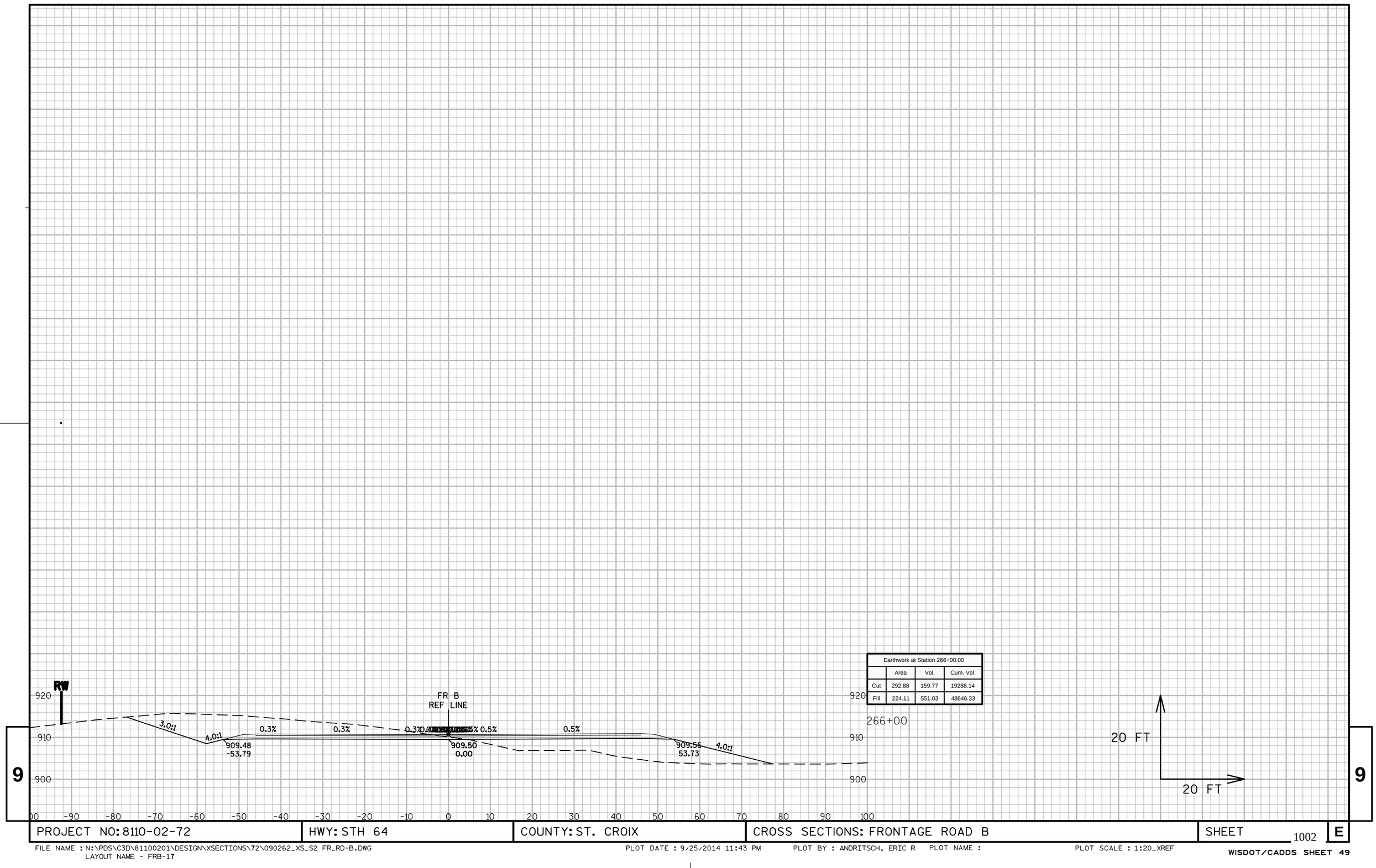
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 1001	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-16

PLOT DATE : 9/25/2014 11:43 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 266+00.00			
	Area	Vol.	Cum. Vol.
Cut	292.88	159.77	19288.14
Fill	224.11	551.03	48646.33

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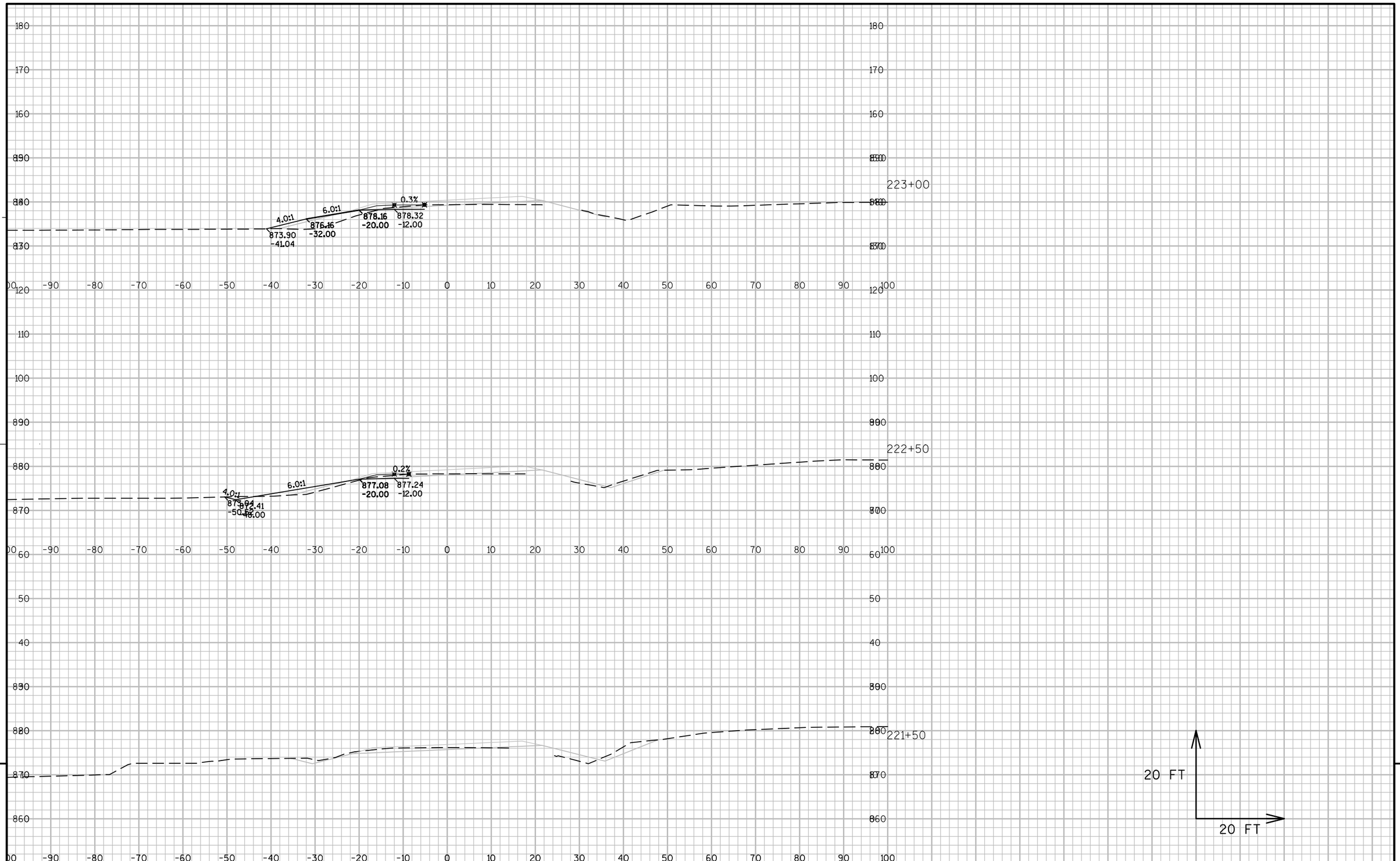
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD B	SHEET 1002	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090262_XS_S2 FR_RD-B.DWG
LAYOUT NAME - FRB-17

PLOT DATE : 9/25/2014 11:43 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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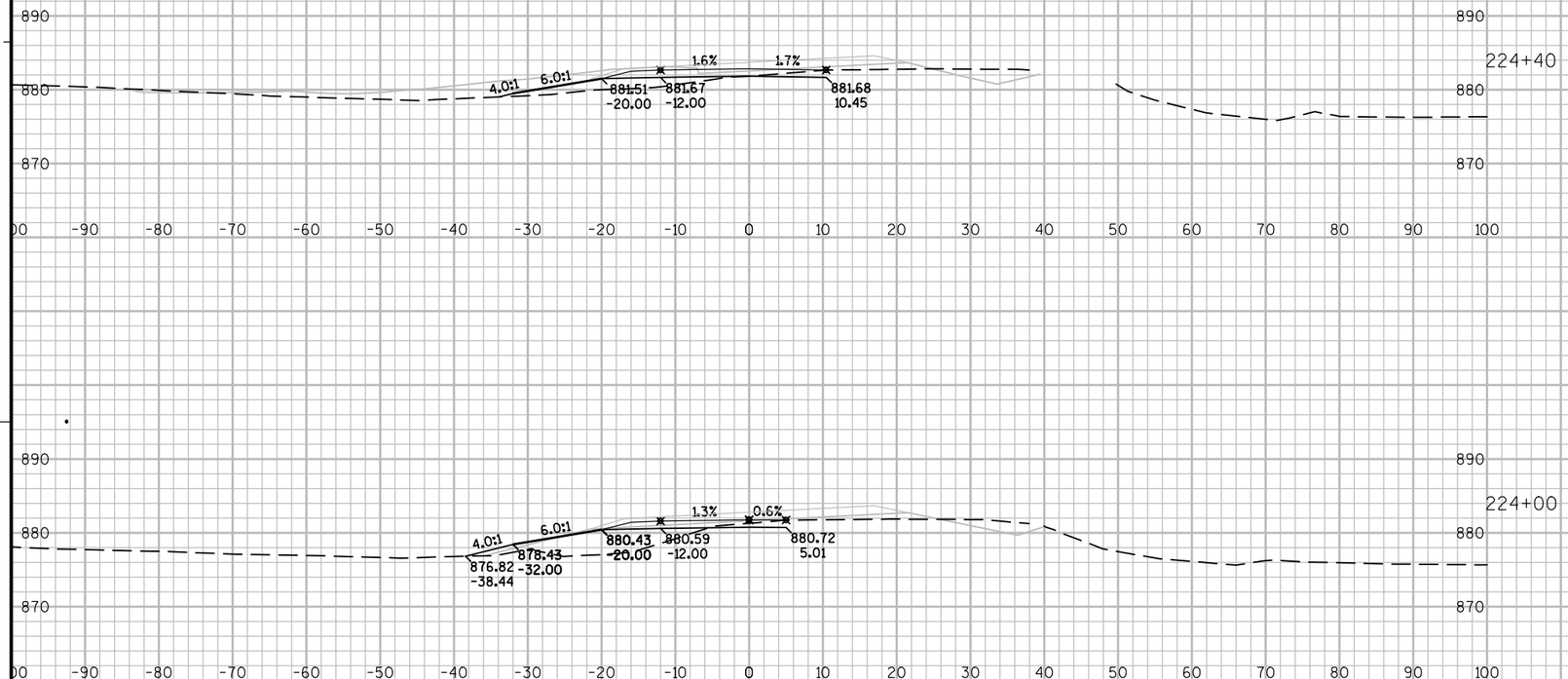
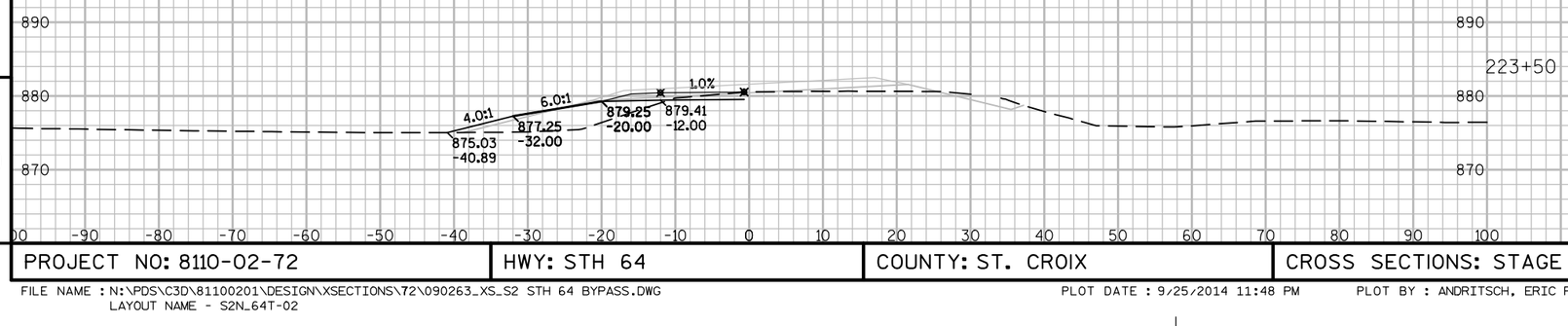
9

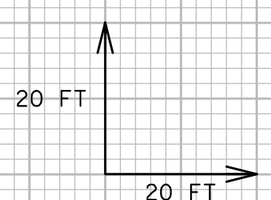
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 TEMP. CONNECTION	SHEET 1003	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S2 STH 64 BYPASS.DWG
LAYOUT NAME - S2N_64T-01

PLOT DATE : 9/25/2014 11:48 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF







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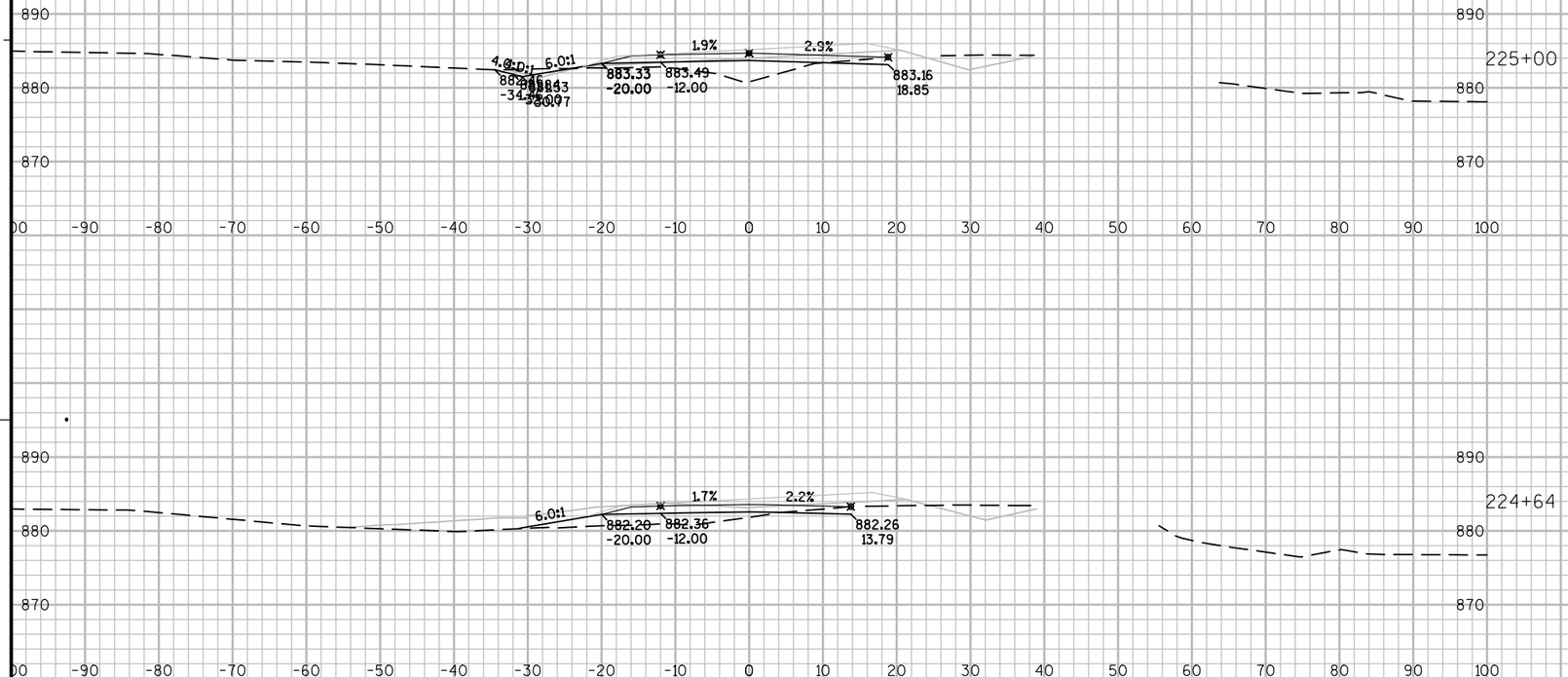
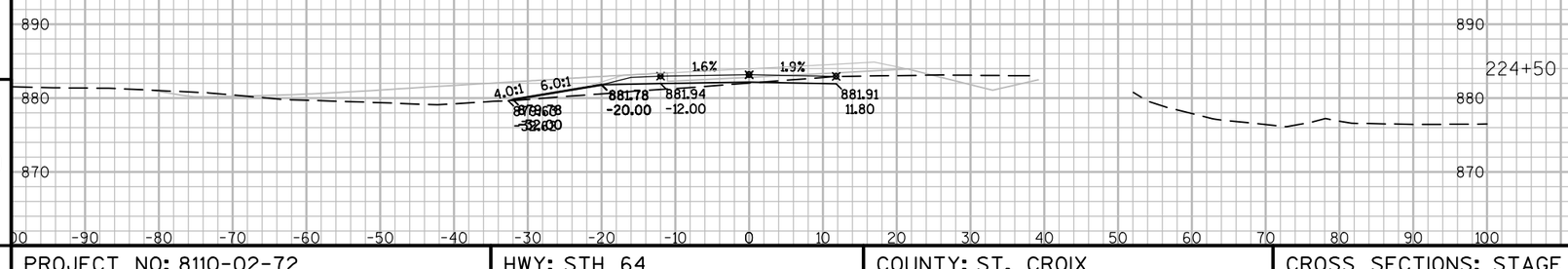
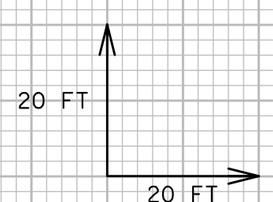
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 TEMP. CONNECTION	SHEET 1004	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S2 STH 64 BYPASS.DWG
LAYOUT NAME - S2N_64T-02

PLOT DATE : 9/25/2014 11:48 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF







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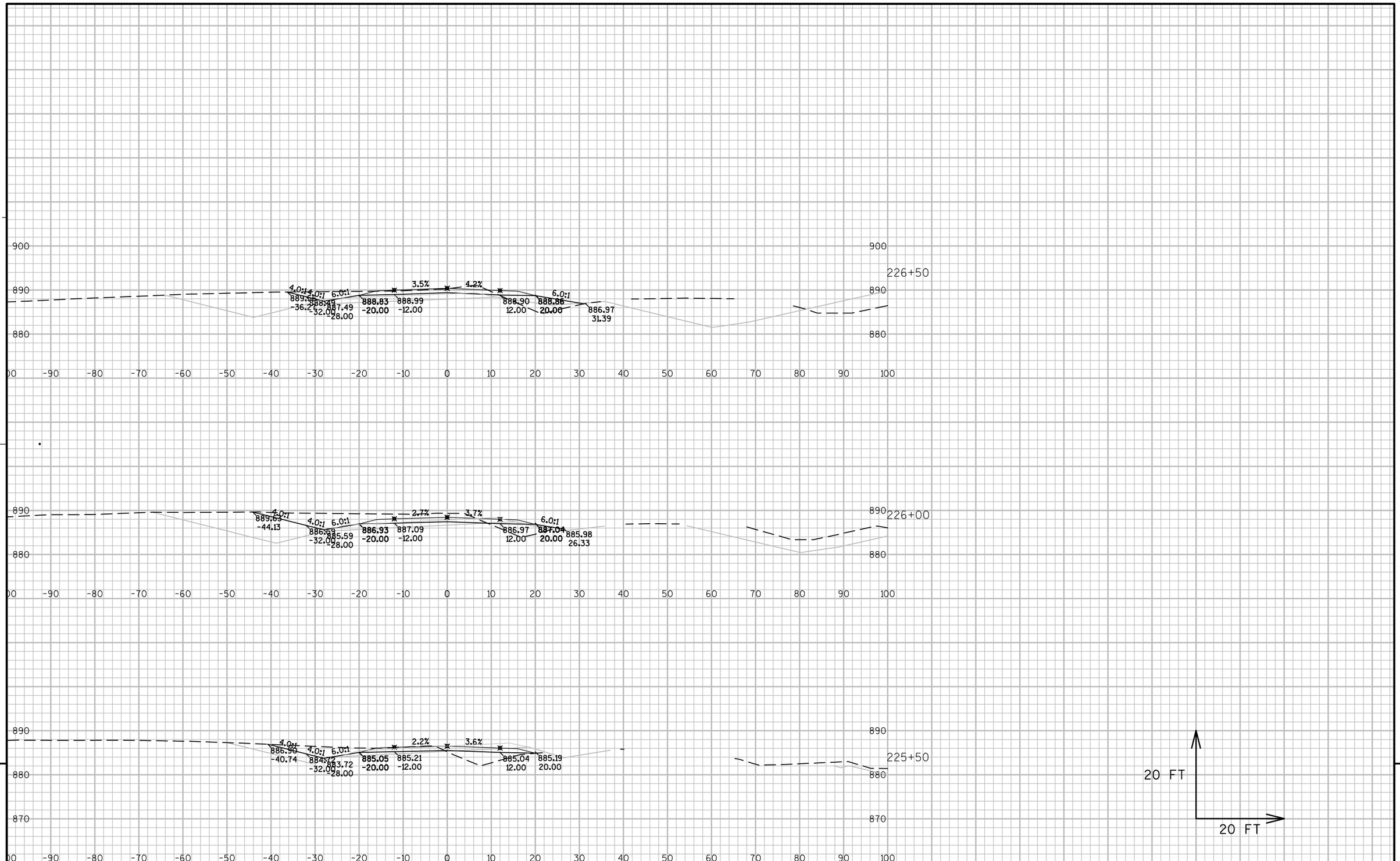
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 TEMP. CONNECTION	SHEET 1005	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S2 STH 64 BYPASS.DWG
LAYOUT NAME - S2N_64T-03

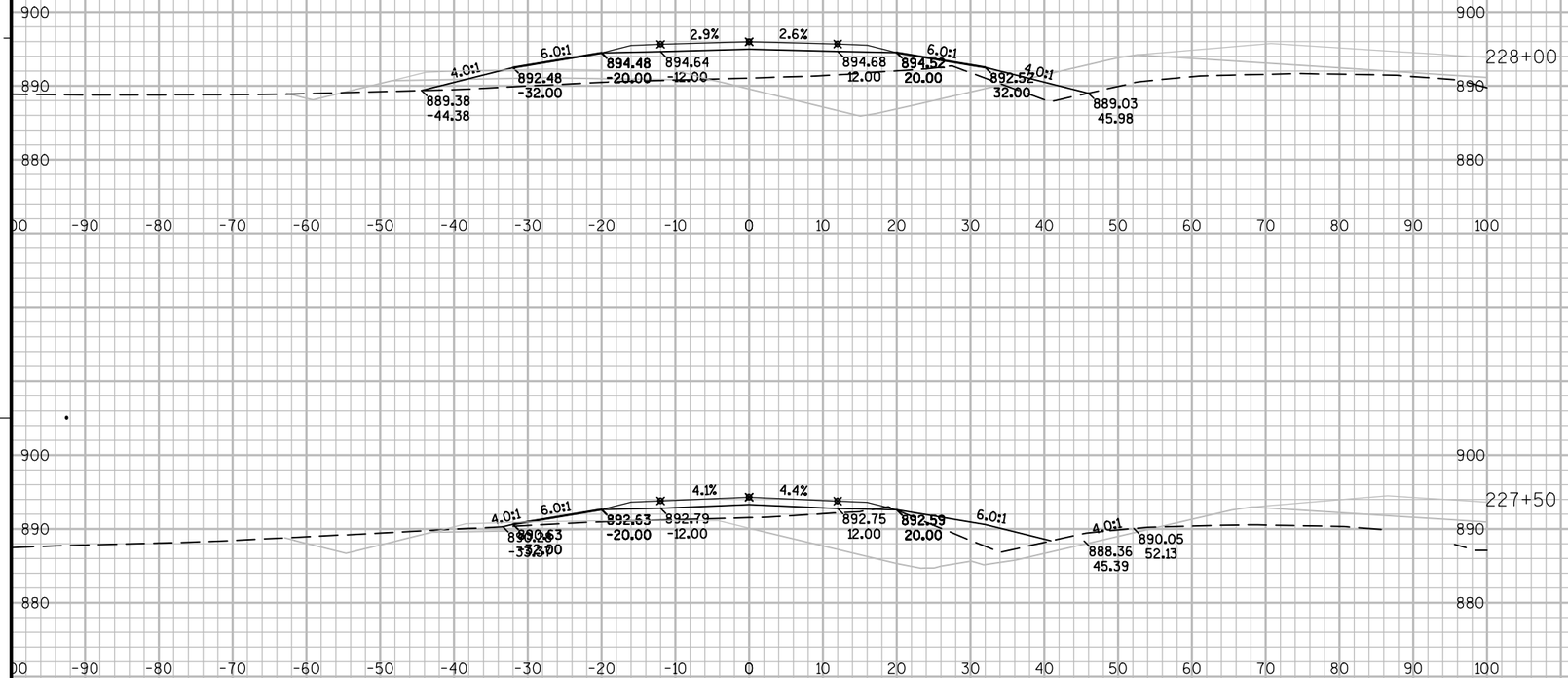
PLOT DATE : 9/25/2014 11:48 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 TEMP. CONNECTION	SHEET 1006	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S2 STH 64 BYPASS.DWG
LAYOUT NAME - S2N_64T-04

PLOT DATE : 9/25/2014 11:48 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



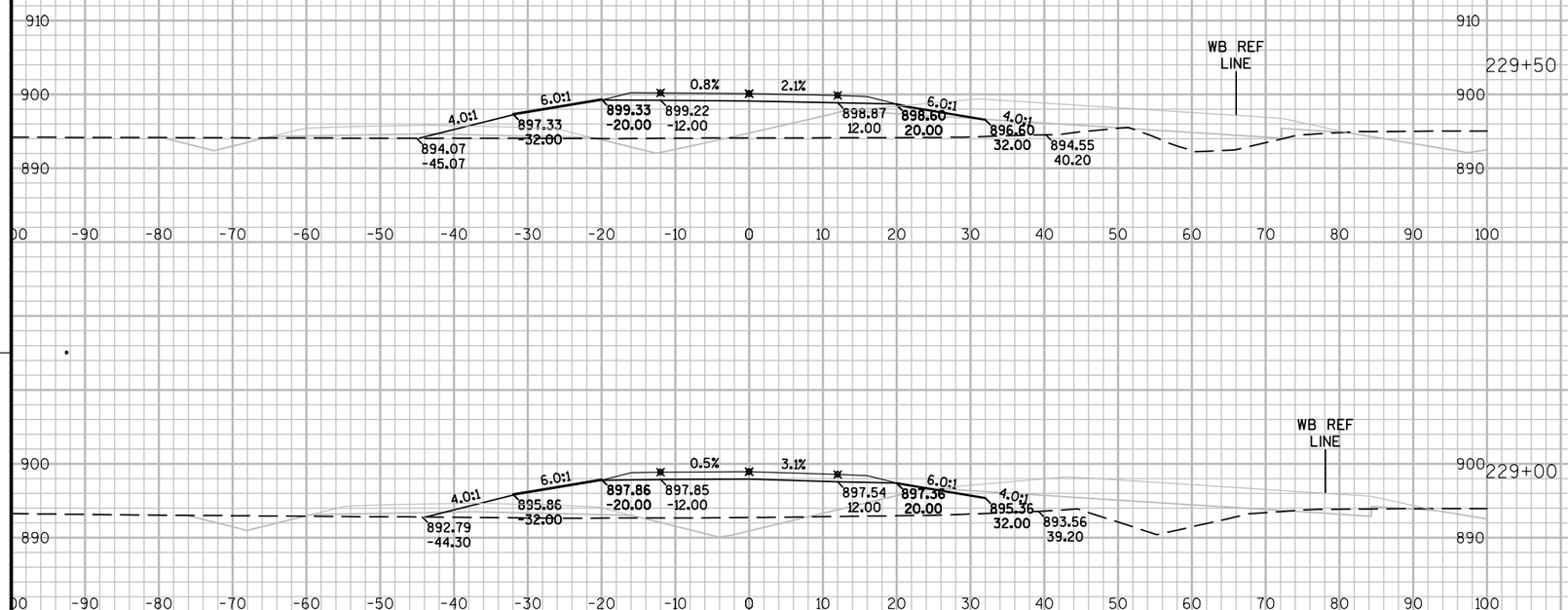
9

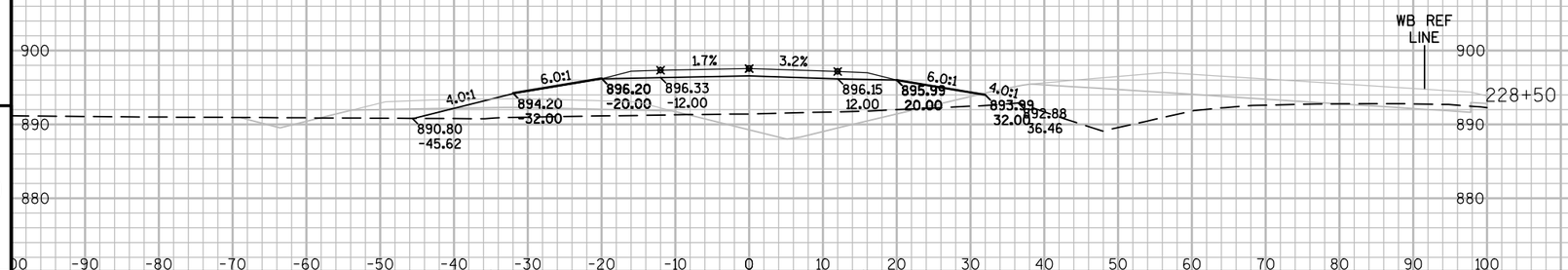
9

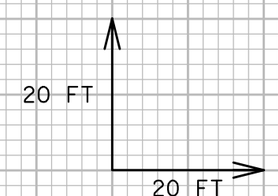
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 TEMP. CONNECTION	SHEET 1007	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S2 STH 64 BYPASS.DWG
LAYOUT NAME - S2N_64T-05

PLOT DATE : 9/25/2014 11:48 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF







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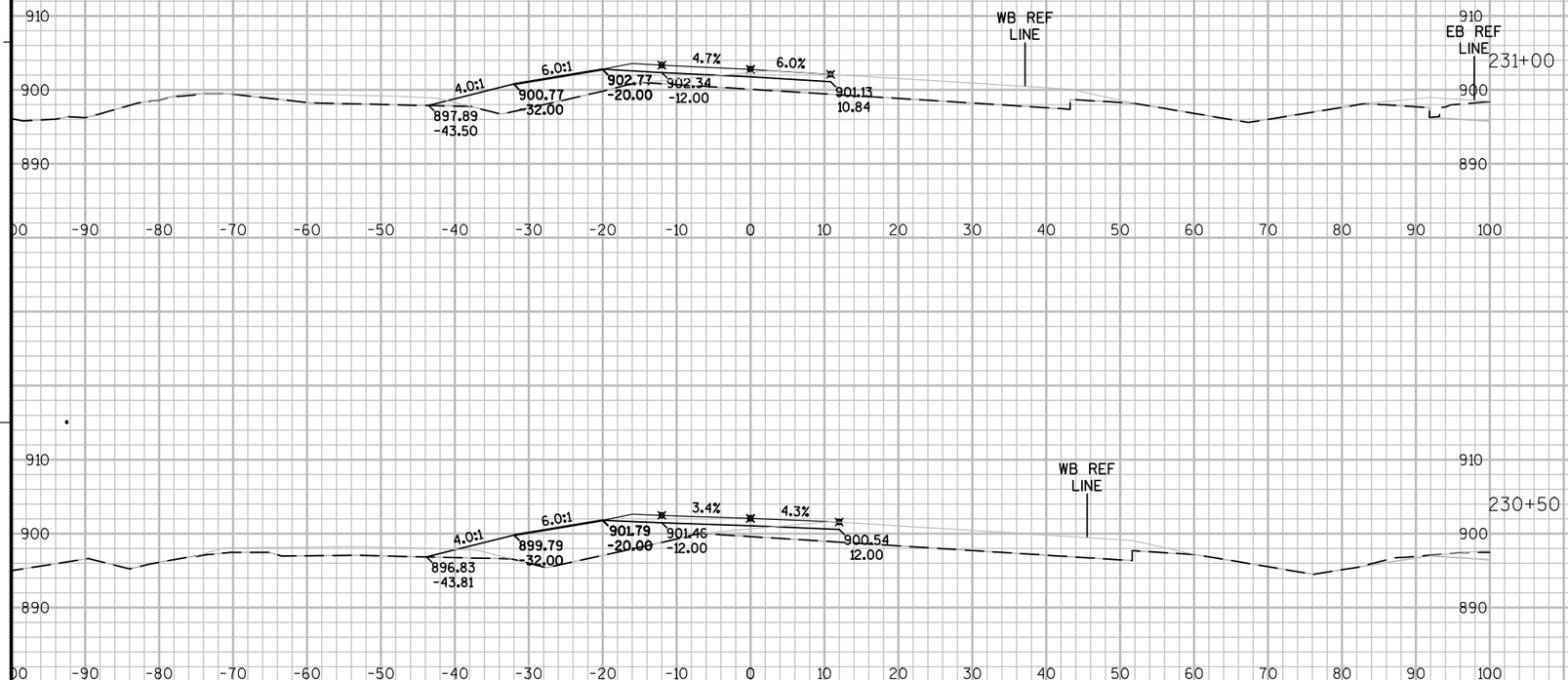
9

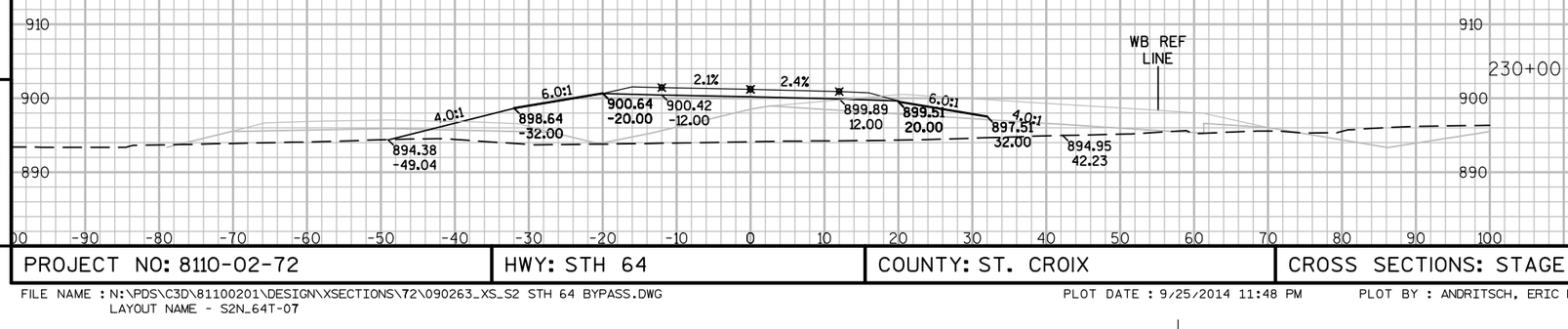
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 TEMP. CONNECTION	SHEET 1008	E

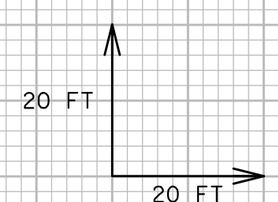
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S2 STH 64 BYPASS.DWG
LAYOUT NAME - S2N_64T-06

PLOT DATE : 9/25/2014 11:48 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49







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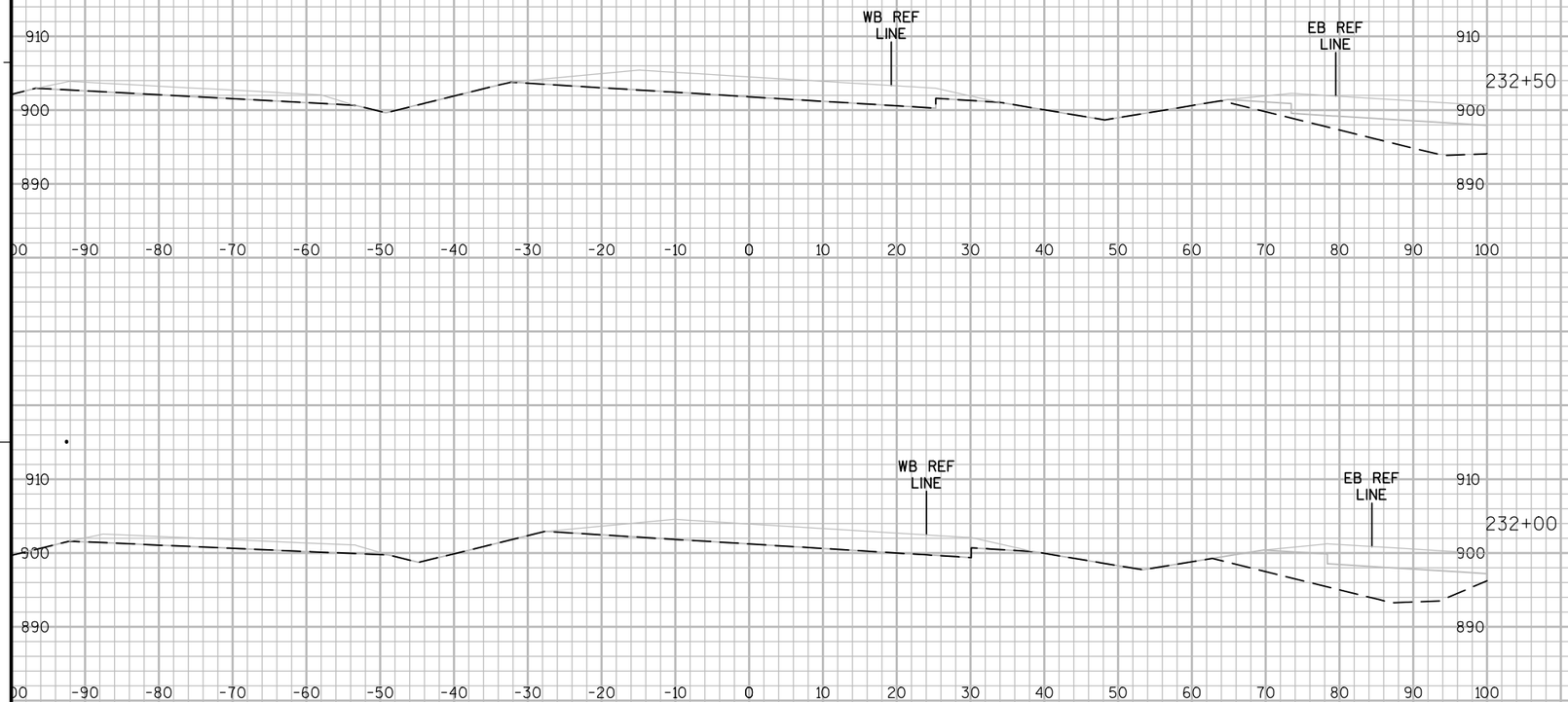
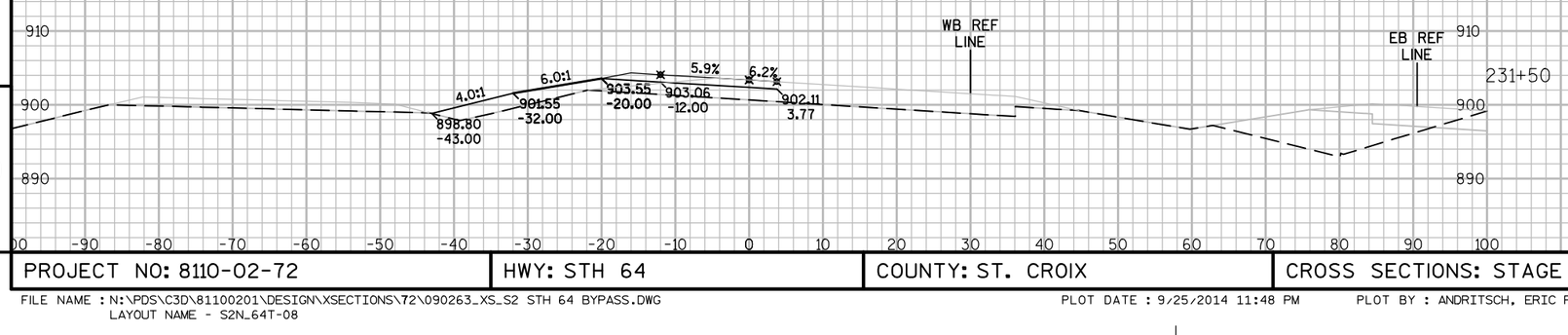
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 TEMP. CONNECTION	SHEET 1009	E

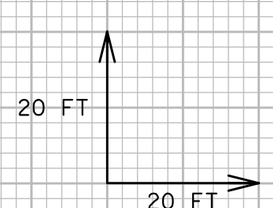
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S2 STH 64 BYPASS.DWG
LAYOUT NAME - S2N_64T-07

PLOT DATE : 9/25/2014 11:48 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49







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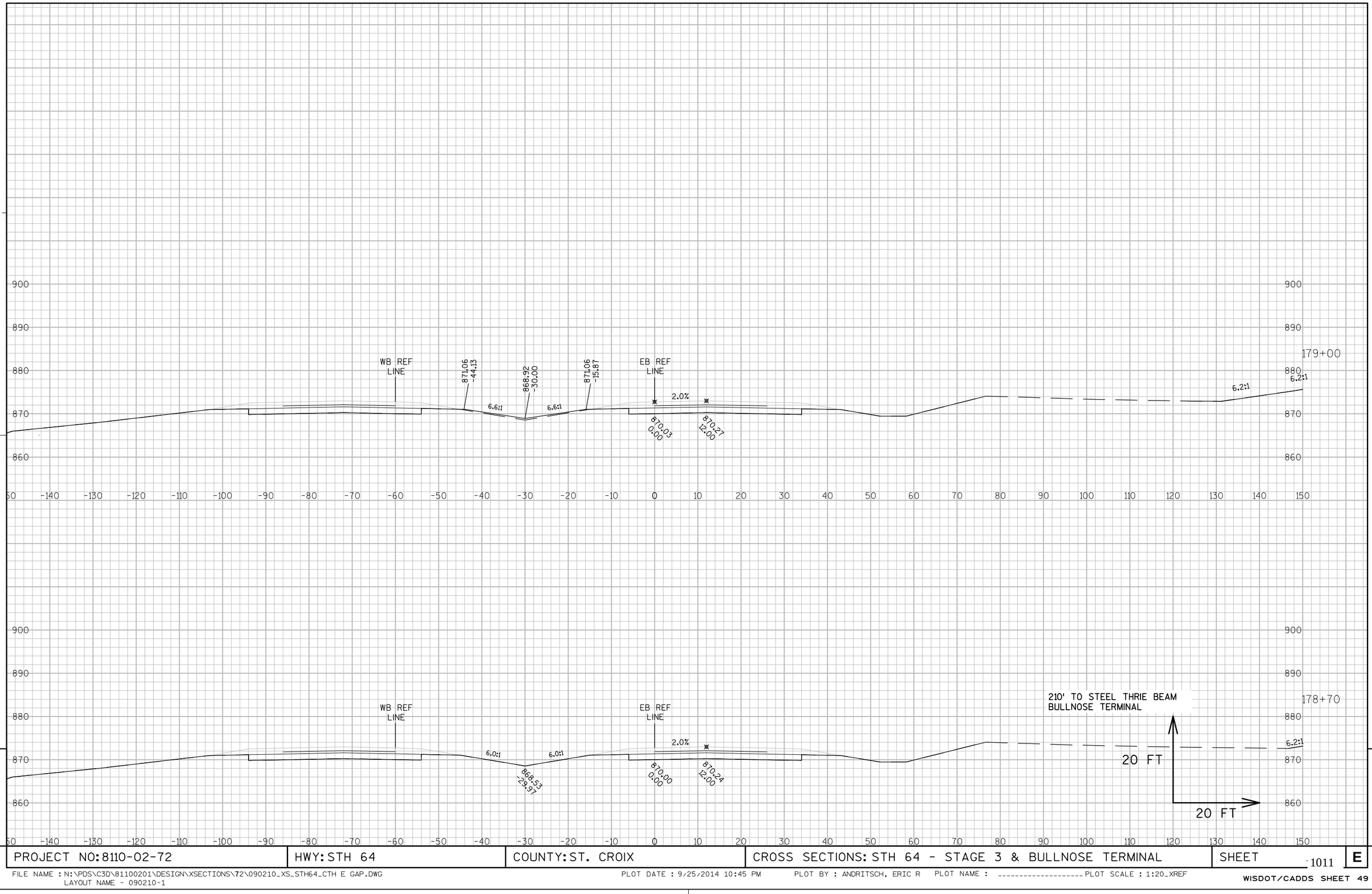
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 2 NORTH - STH 35/64 TEMP. CONNECTION	SHEET 1010	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S2 STH 64 BYPASS.DWG
LAYOUT NAME - S2N_64T-08

PLOT DATE : 9/25/2014 11:48 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

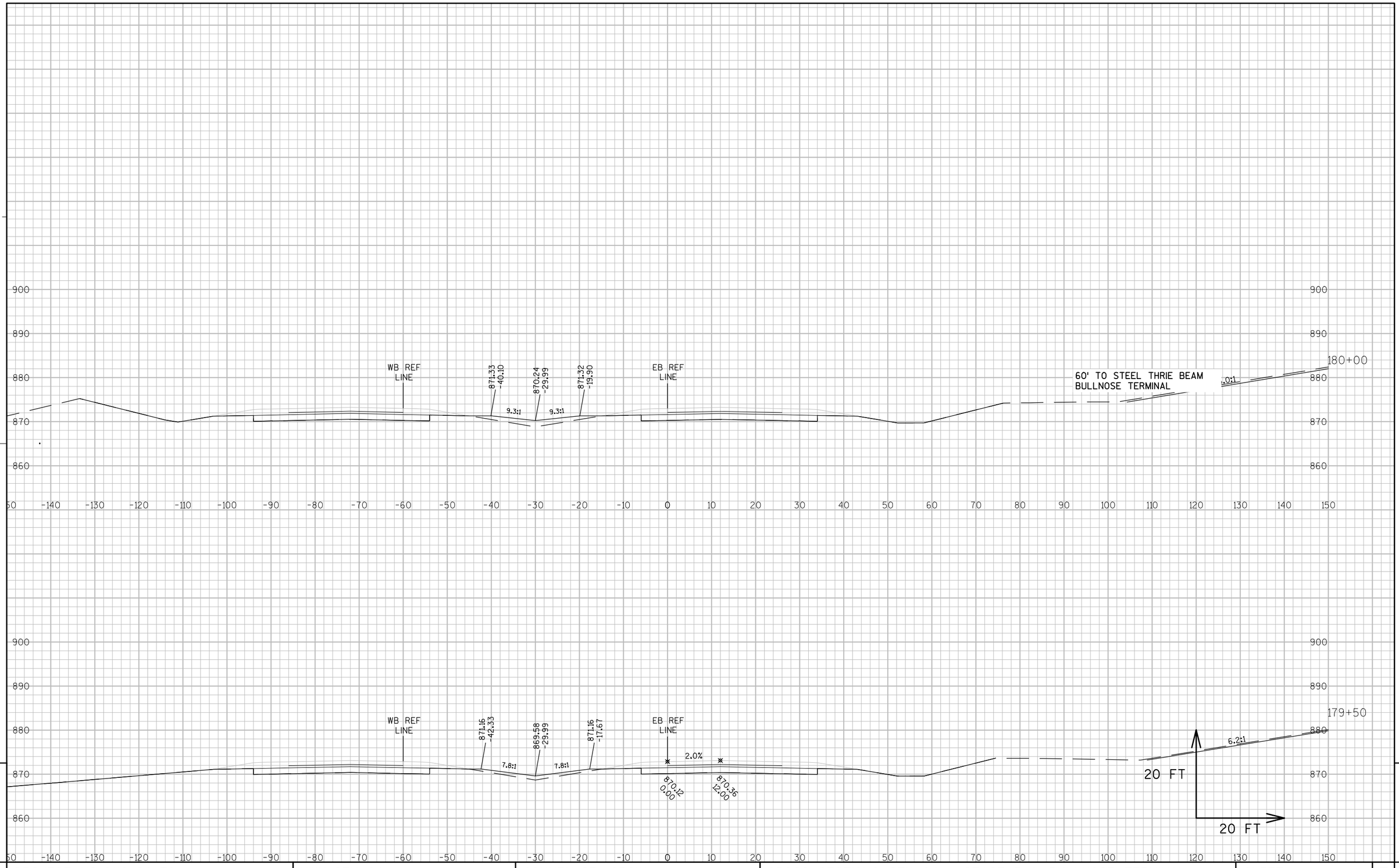


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1011	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-1

PLOT DATE : 9/25/2014 10:45 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : _____ PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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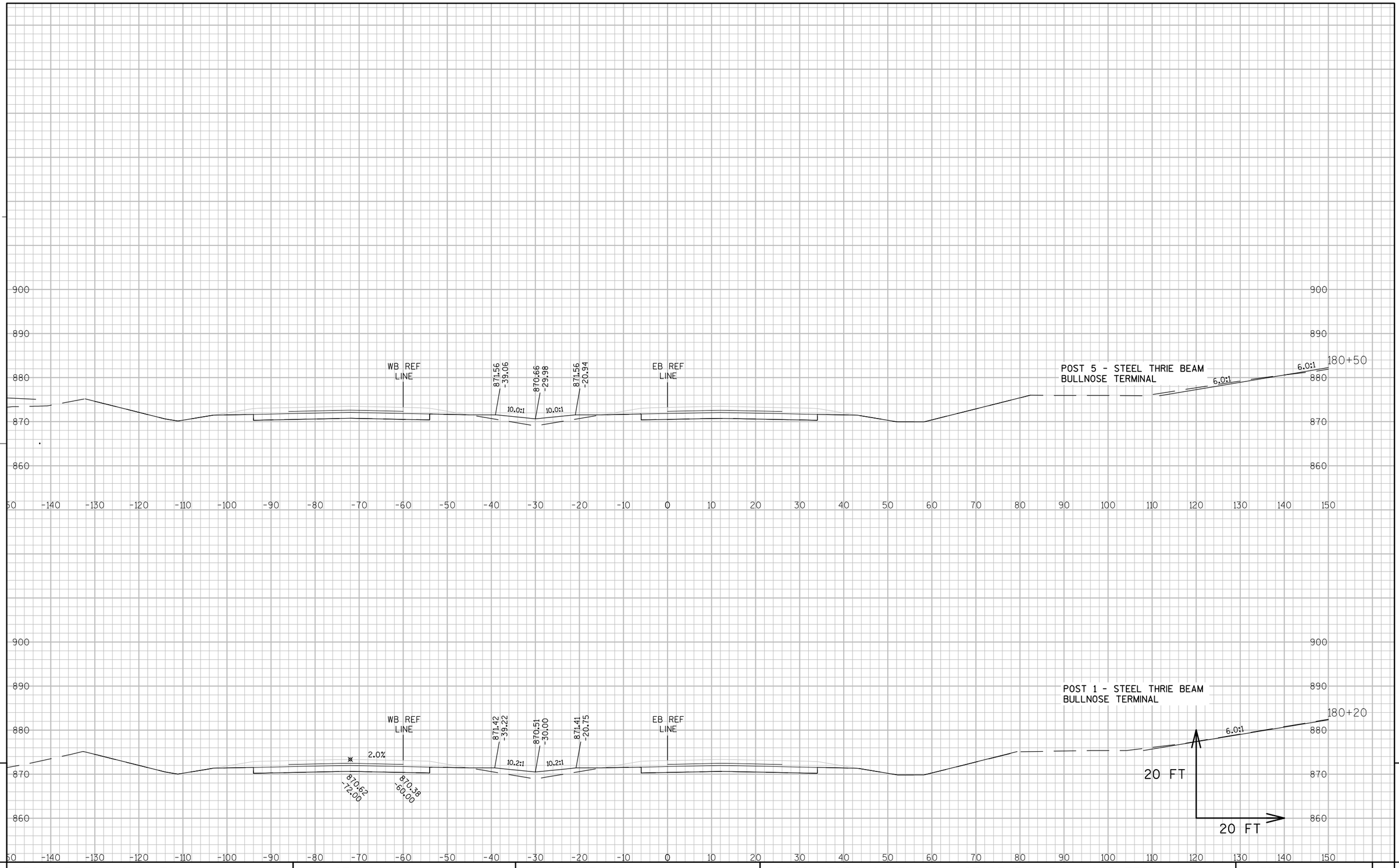
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1012	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-2

PLOT DATE : 9/25/2014 10:45 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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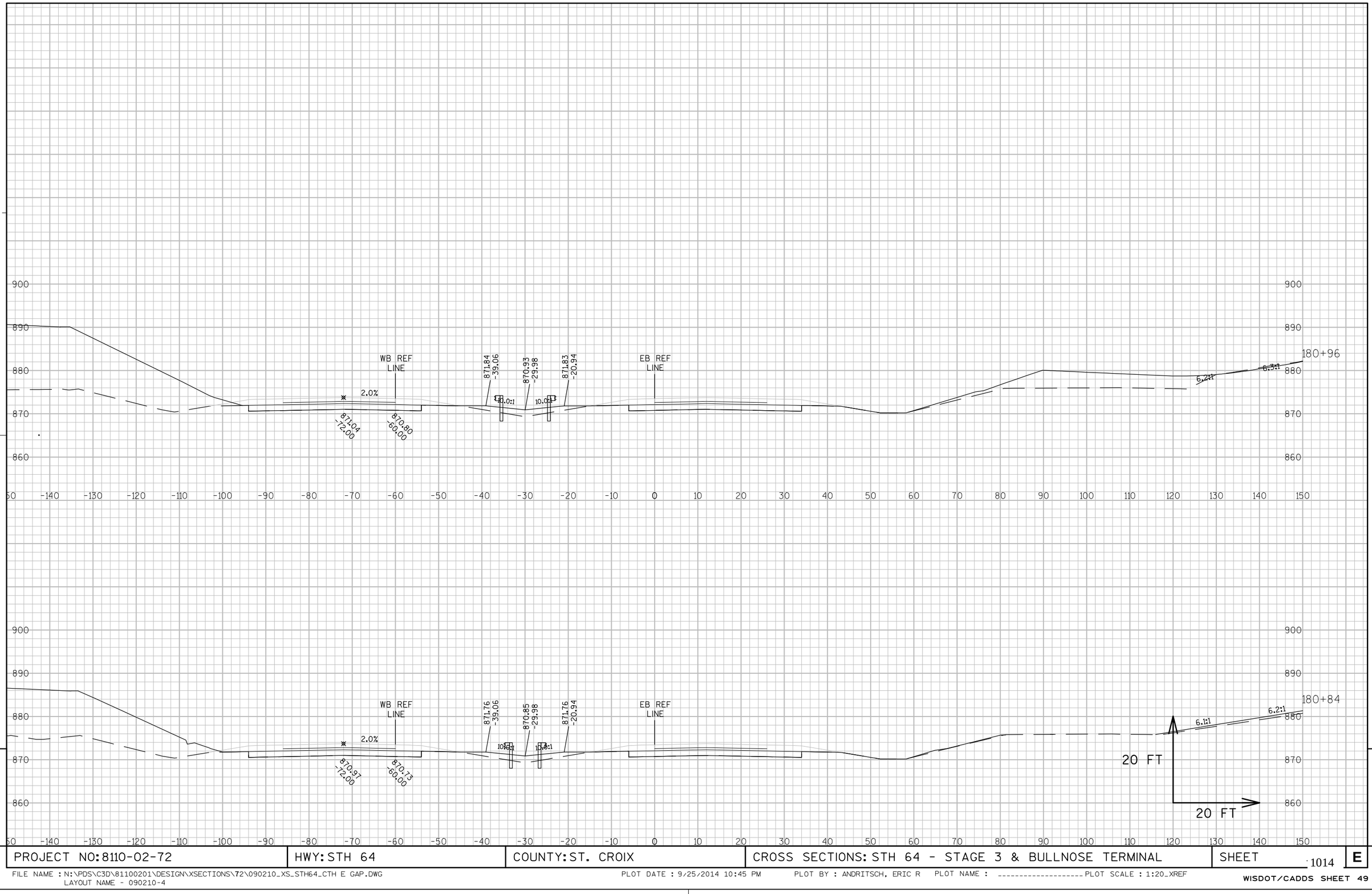
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1013	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-3

PLOT DATE : 9/25/2014 10:45 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:20_XREF



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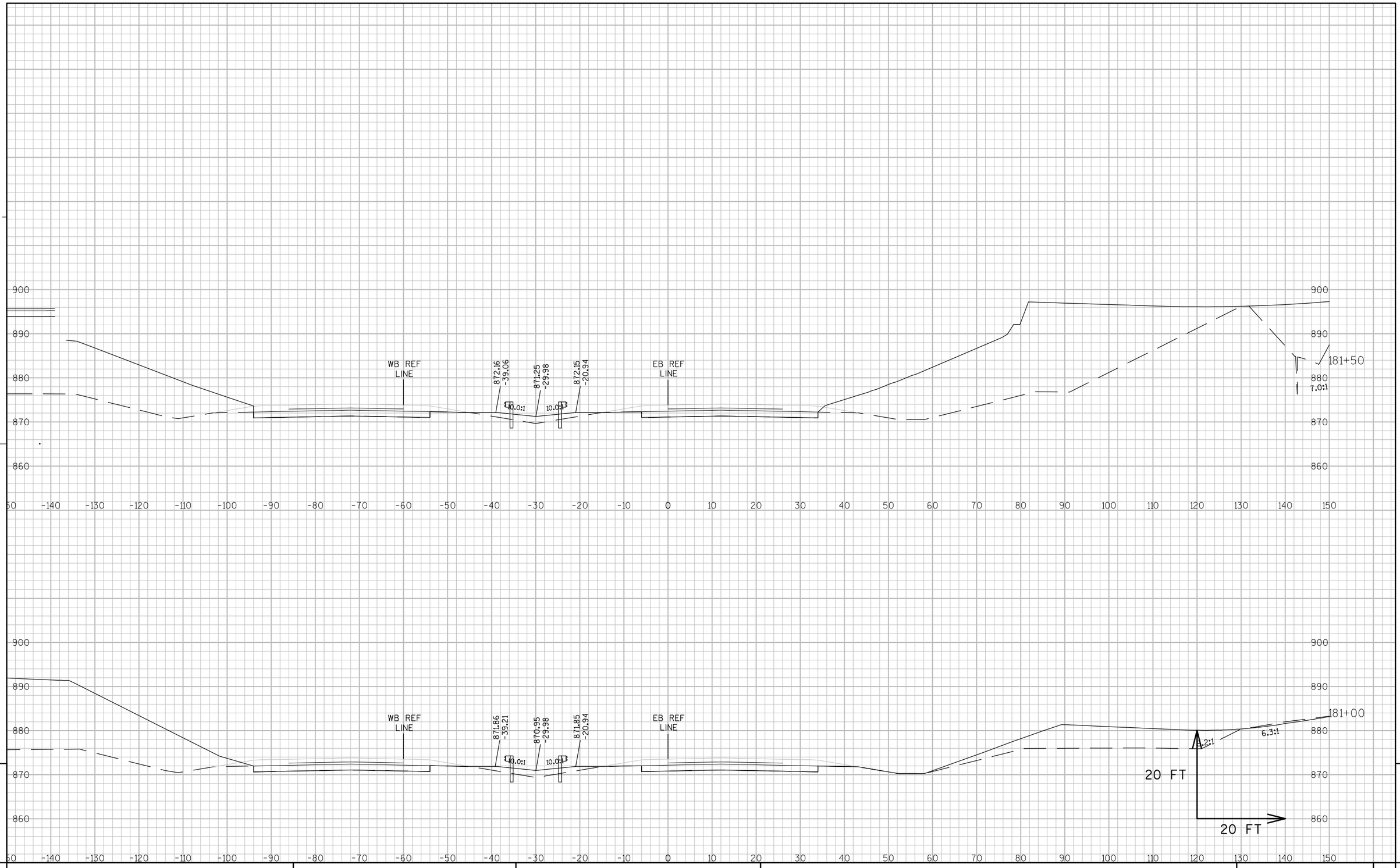
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1014	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-4

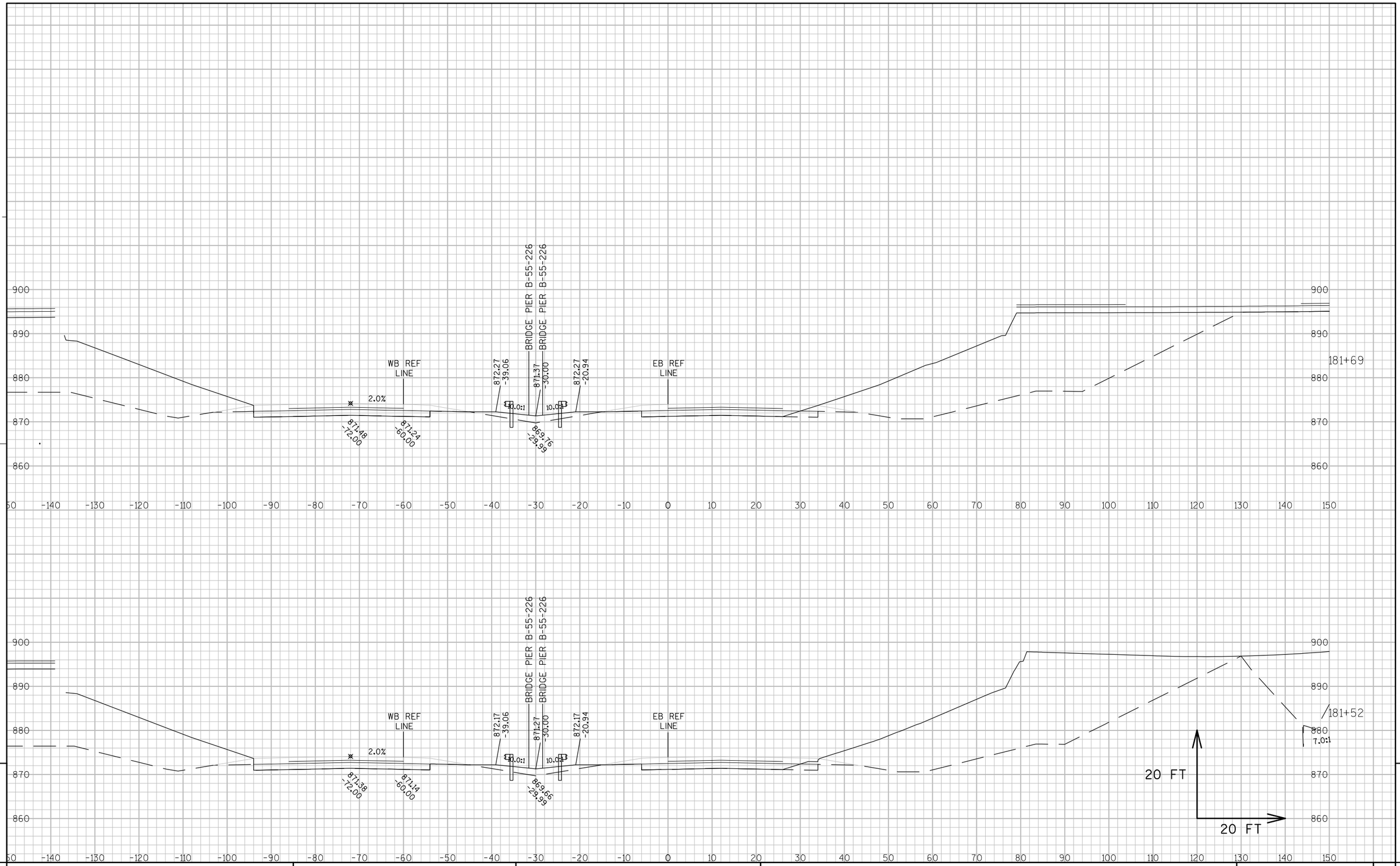
PLOT DATE : 9/25/2014 10:45 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : _____ PLOT SCALE : 1:20_XREF



PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1015	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-5

PLOT DATE : 9/25/2014 10:46 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:20_XREF



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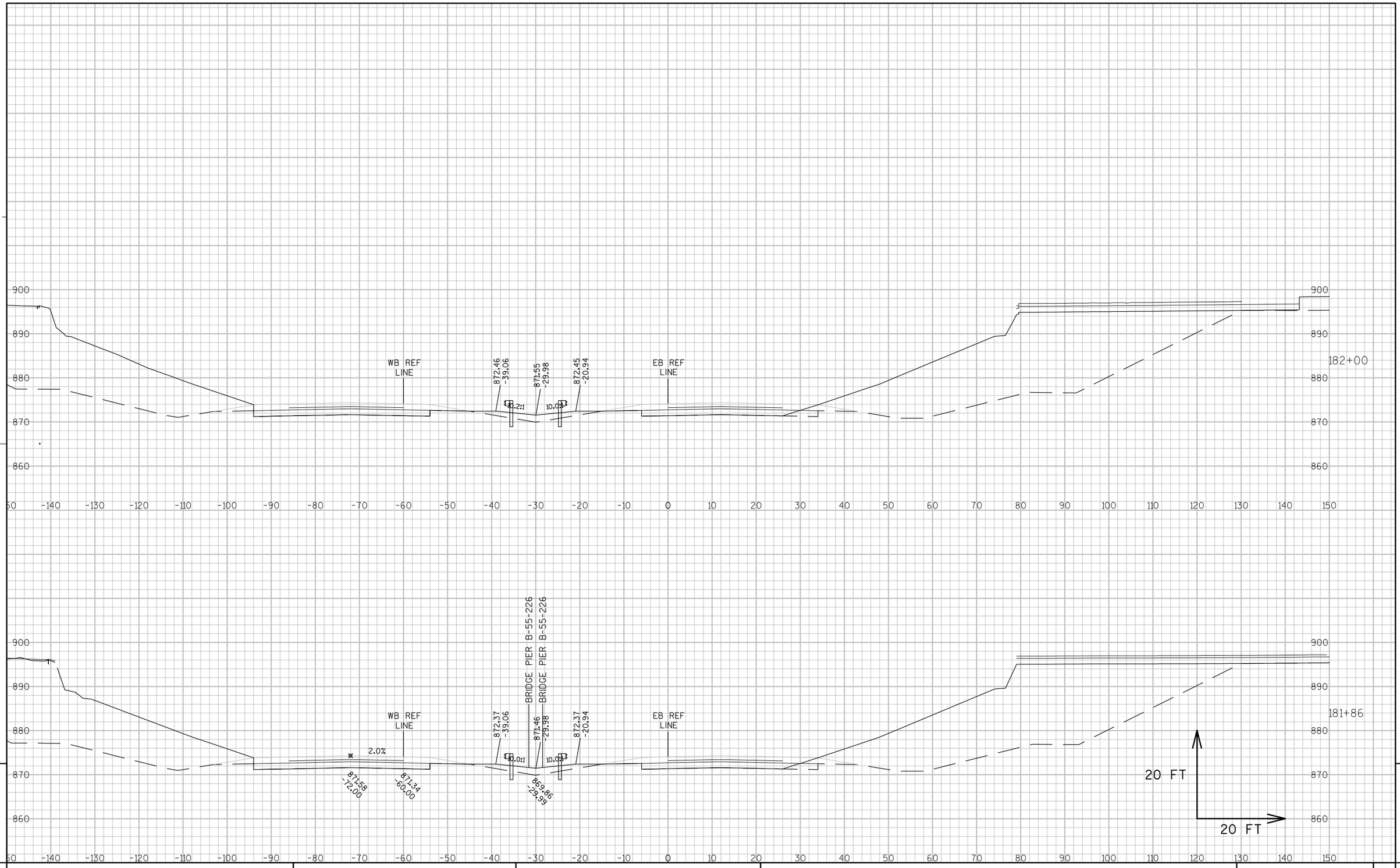
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1016	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-6

PLOT DATE : 9/25/2014 10:46 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

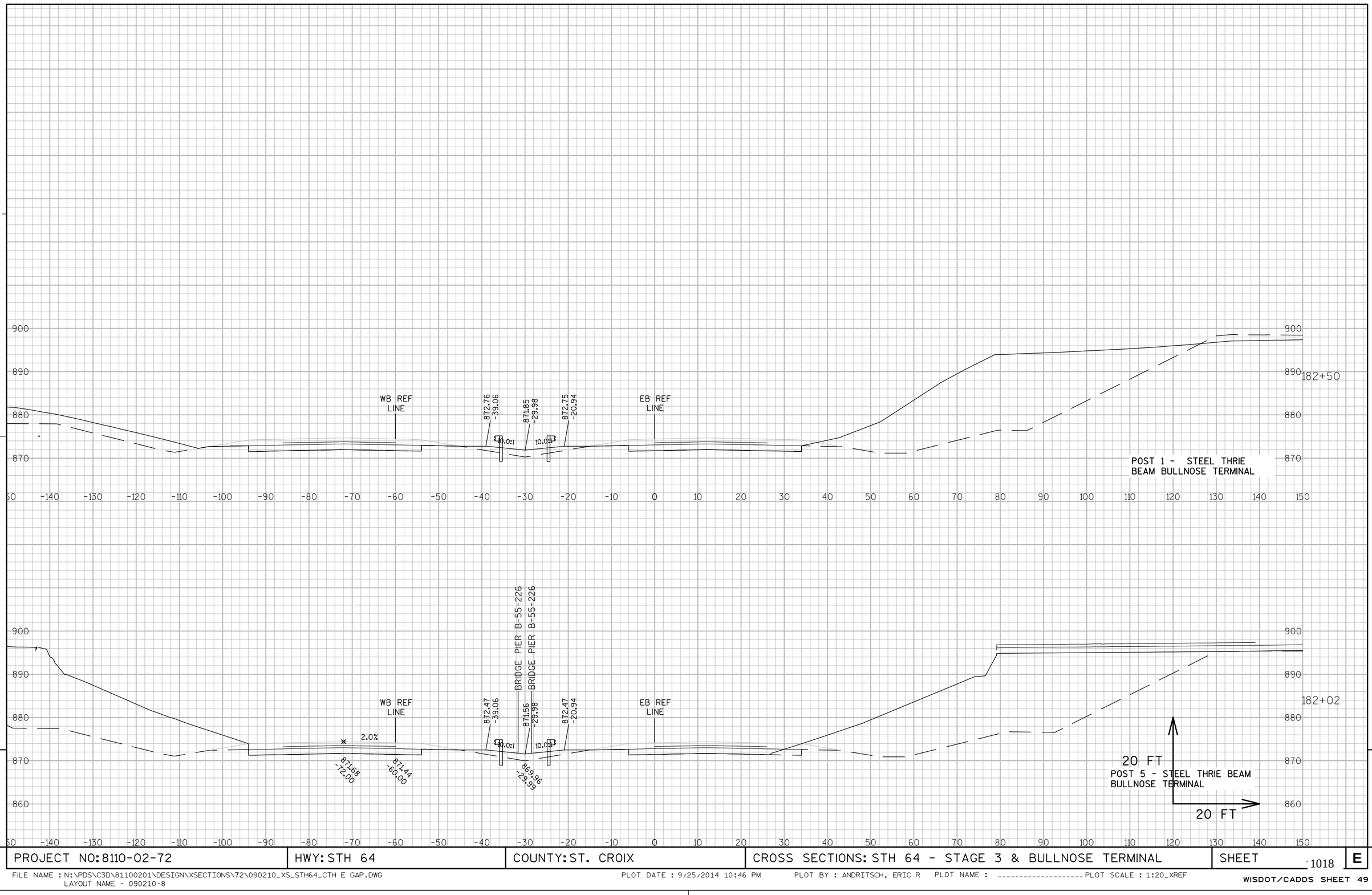


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1017	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-7

PLOT DATE : 9/25/2014 10:46 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

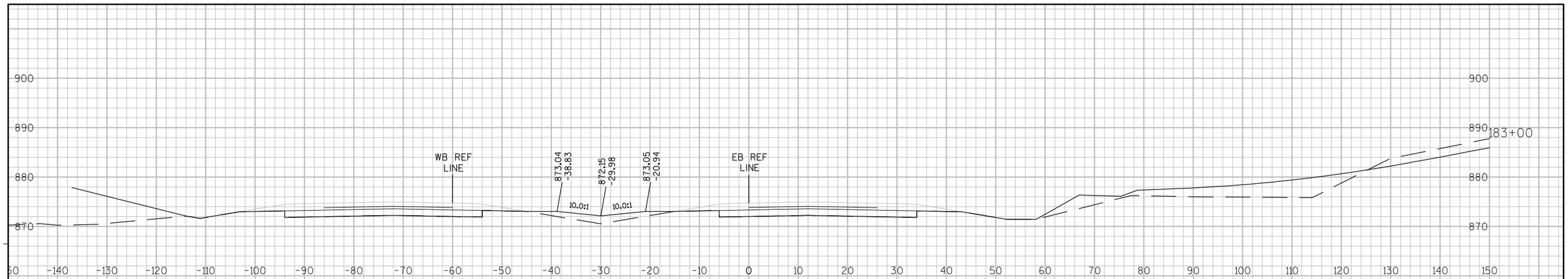


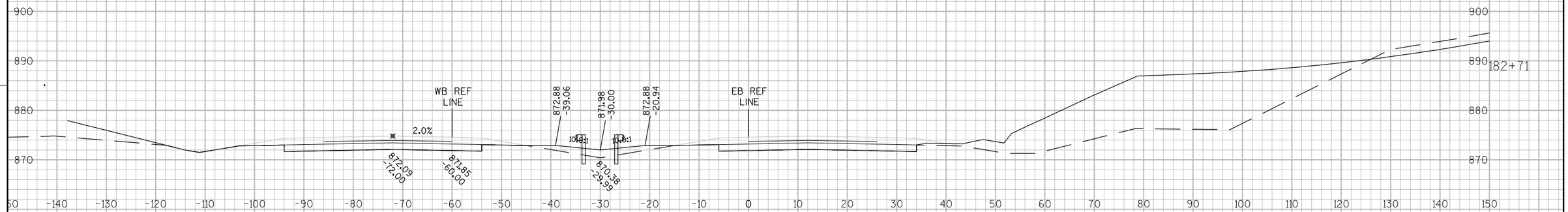
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1018	E

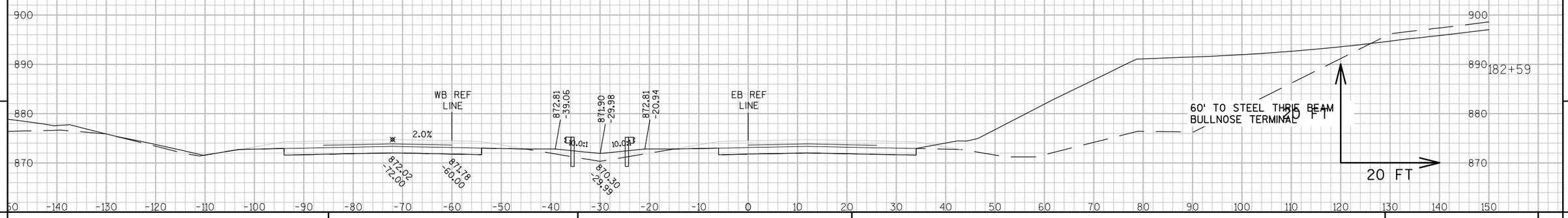
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-8

PLOT DATE : 9/25/2014 10:46 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : _____ PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49







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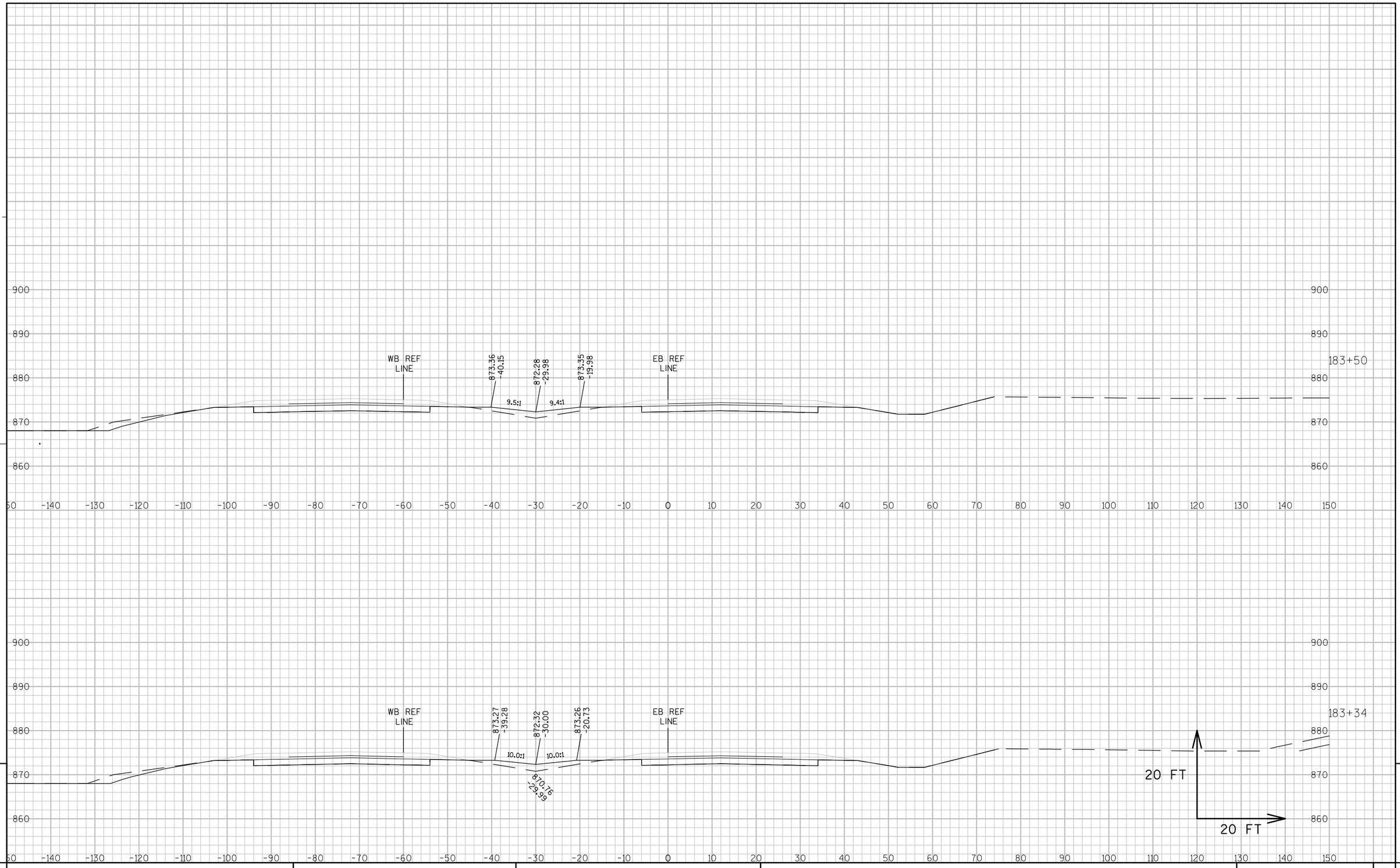
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1019 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-9

PLOT DATE : 9/25/2014 10:46 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:20_XREF



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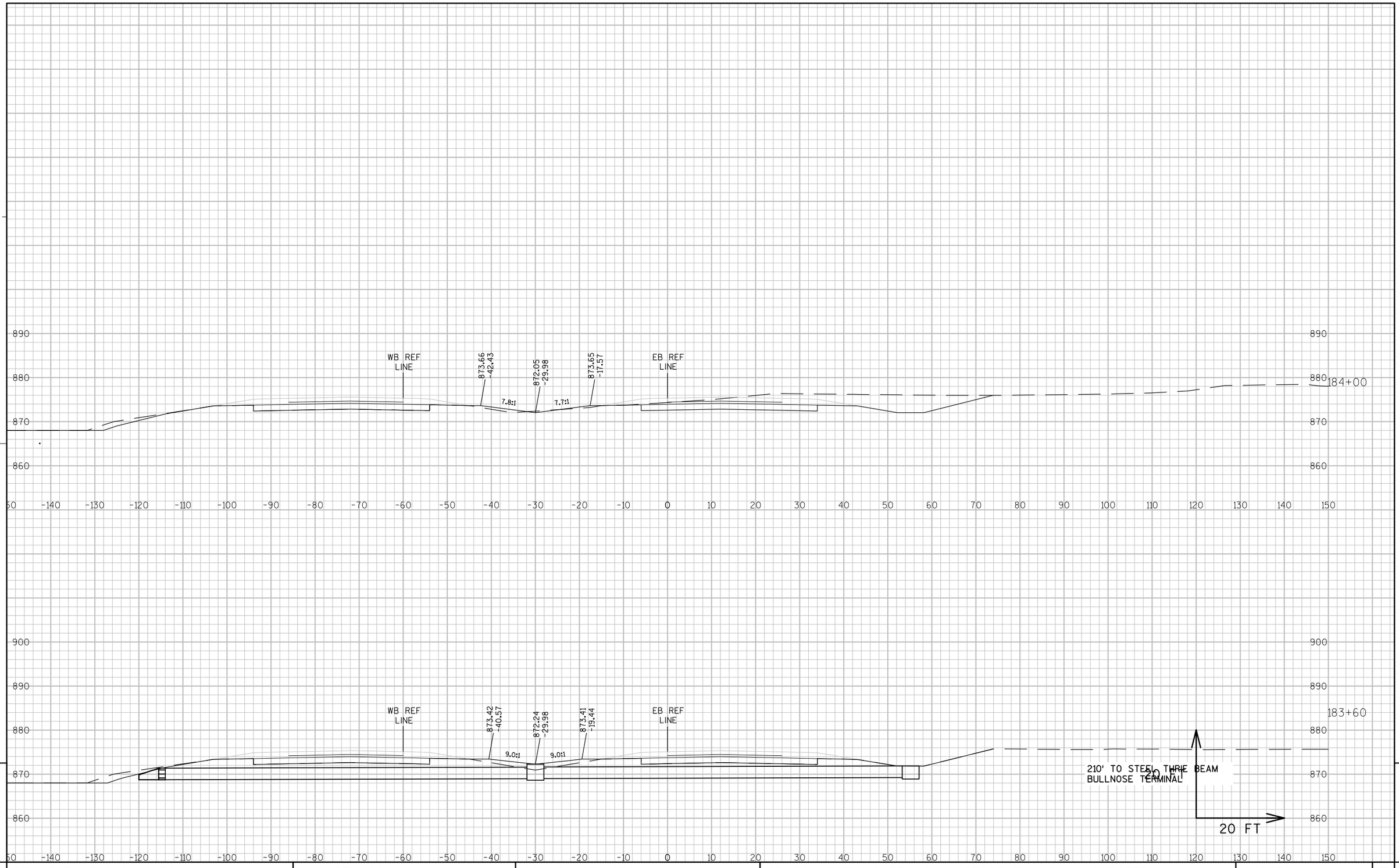
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1020	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-10

PLOT DATE : 9/25/2014 10:46 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:20_XREF

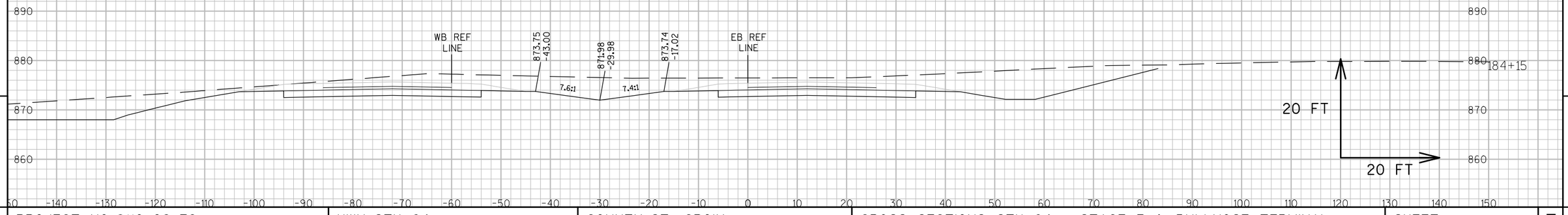


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1021	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-11

PLOT DATE : 9/25/2014 10:46 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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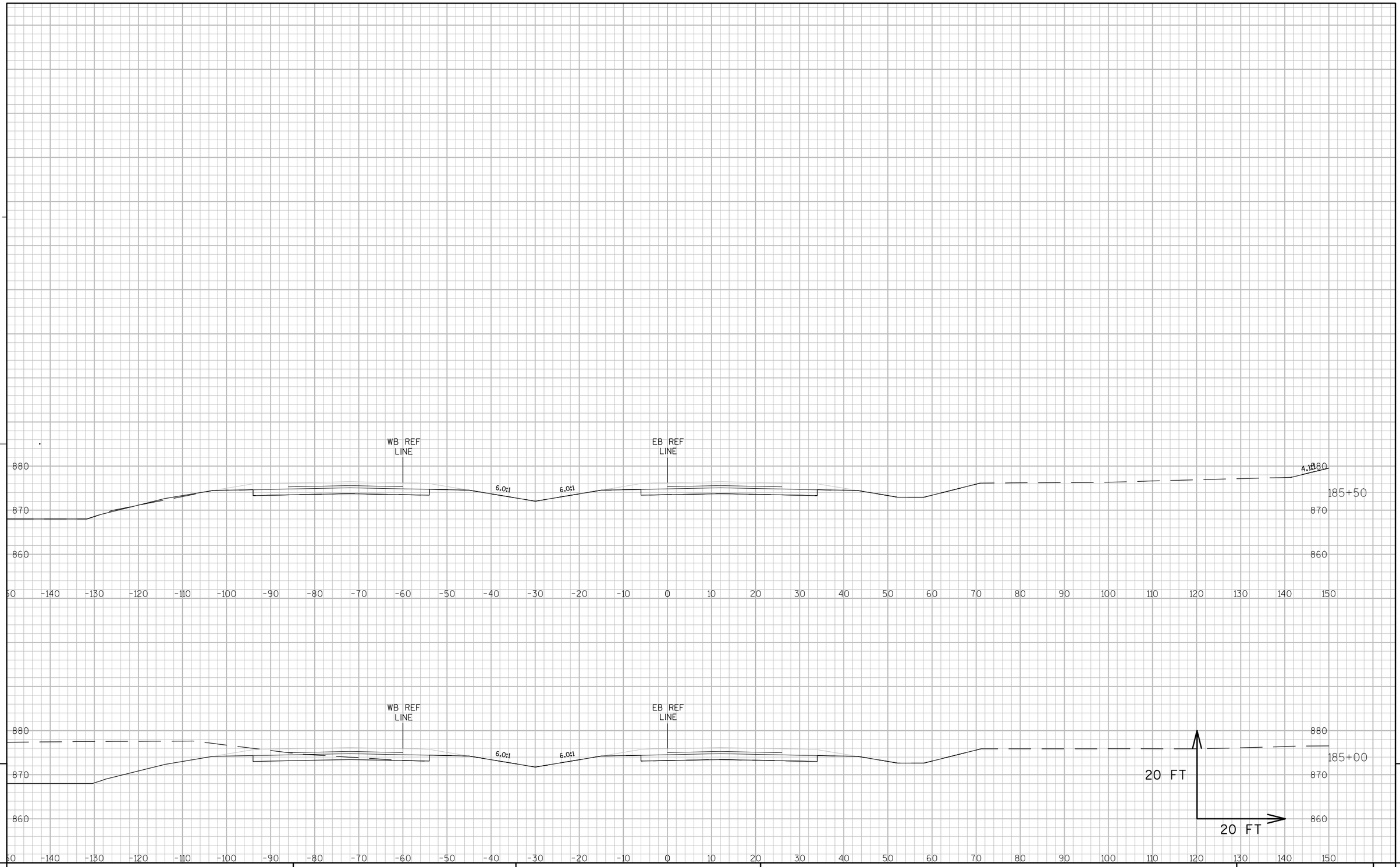
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1022	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-12

PLOT DATE : 9/25/2014 10:46 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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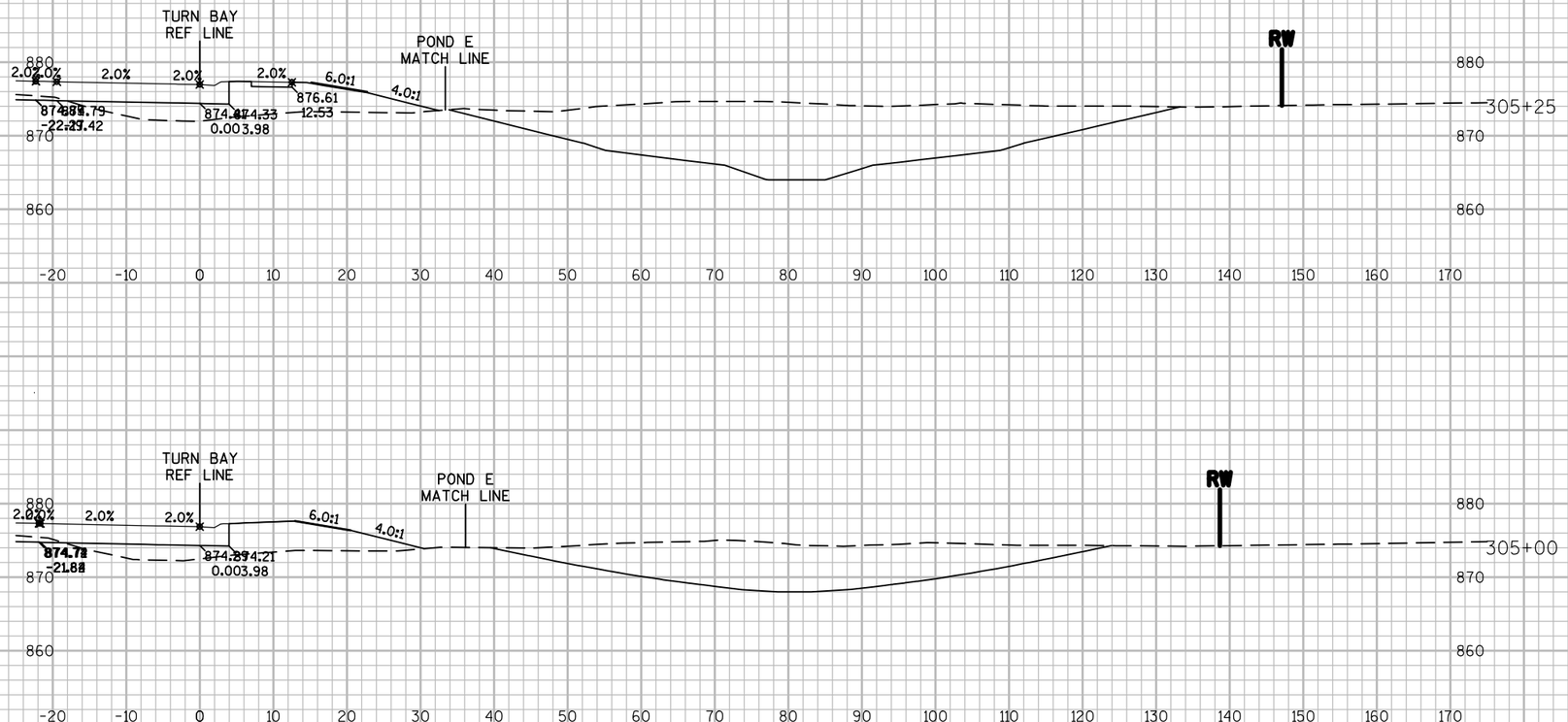
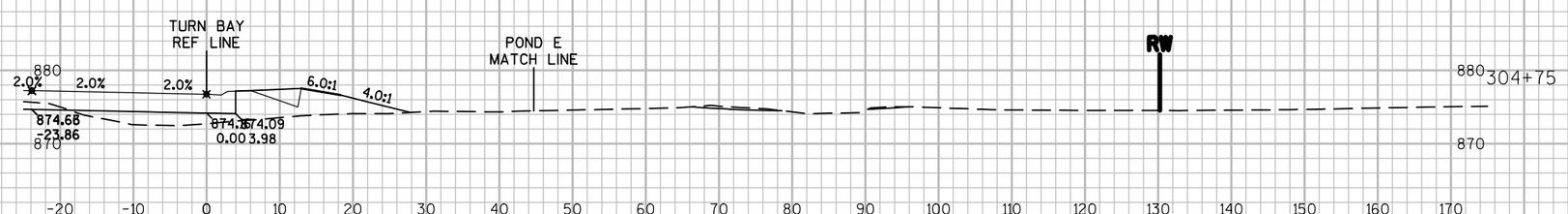
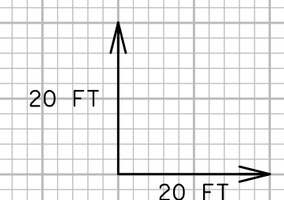
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STH 64 - STAGE 3 & BULLNOSE TERMINAL	SHEET 1023	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090210_XS_STH64_CTH E GAP.DWG
LAYOUT NAME - 090210-13

PLOT DATE : 9/25/2014 10:46 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : _____ PLOT SCALE : 1:20_XREF



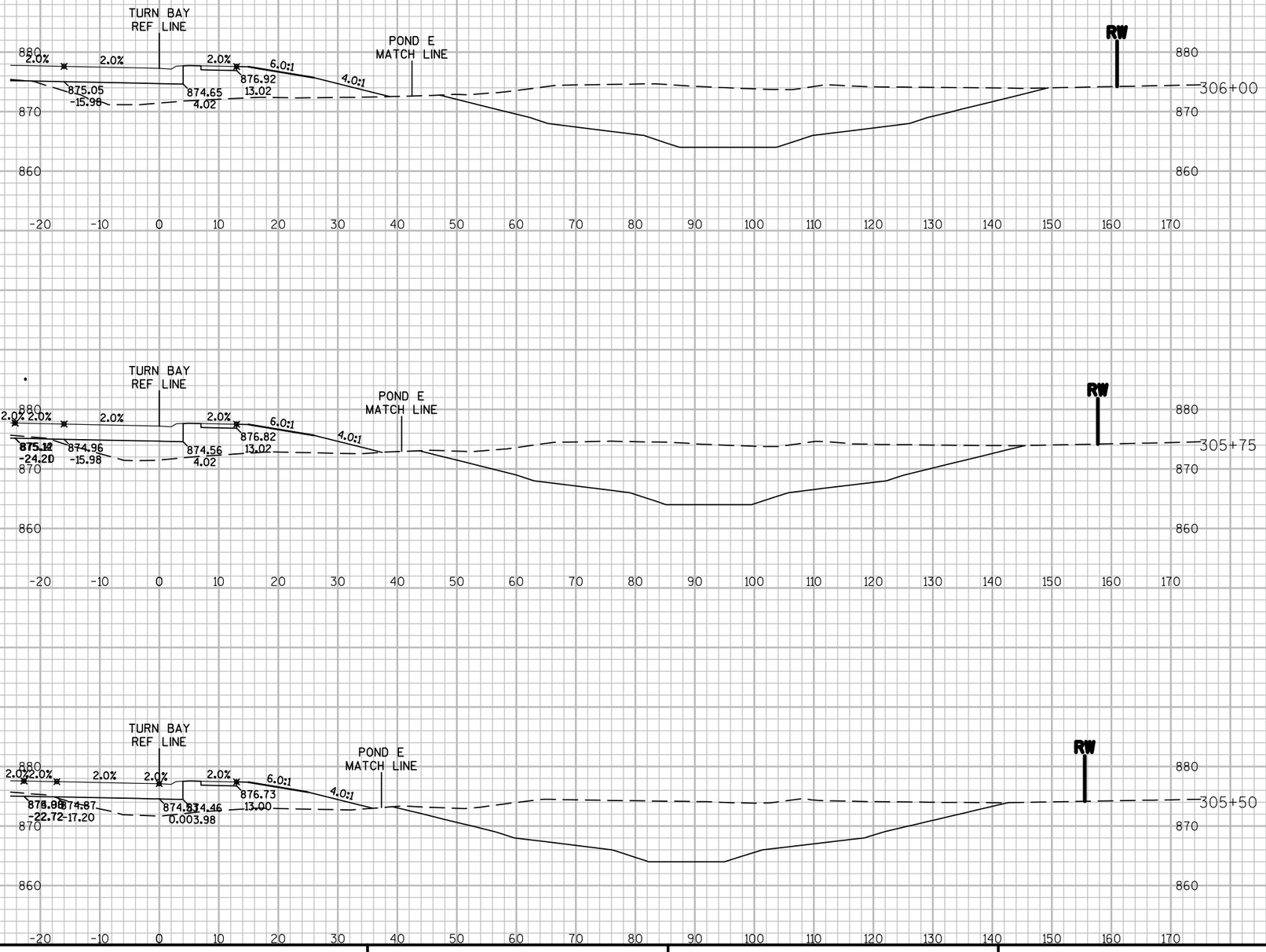


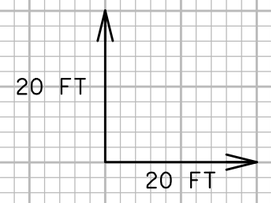


9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: POND E	SHEET 1024	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_POND E.DWG
LAYOUT NAME - XS - (78)
PLOT DATE : 9/26/2014 2:32 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49





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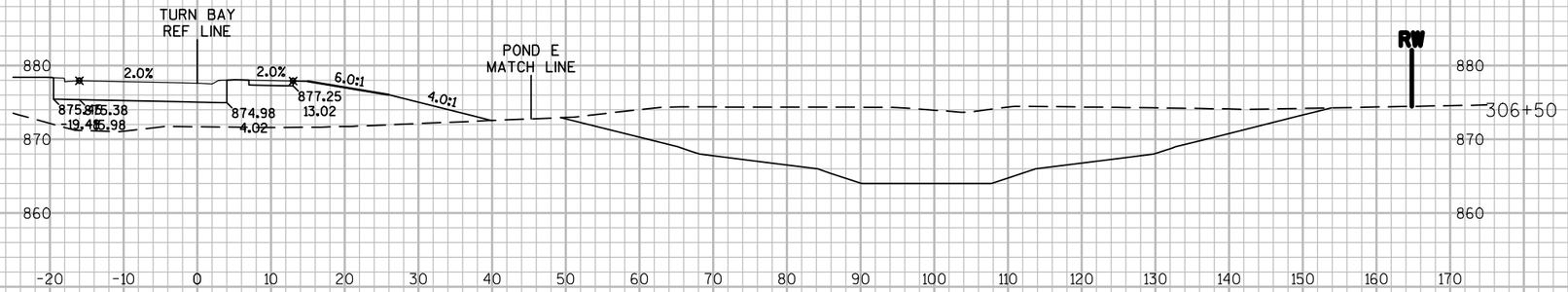
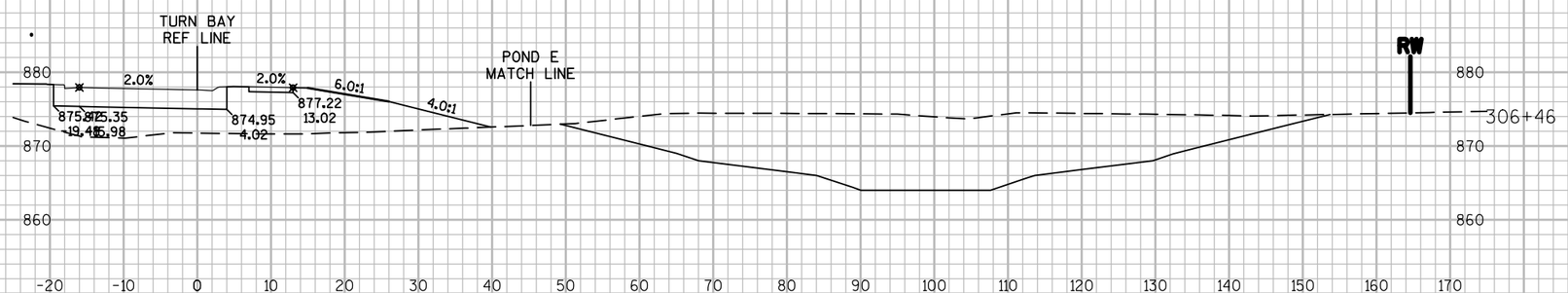
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: POND E	SHEET 1025	E

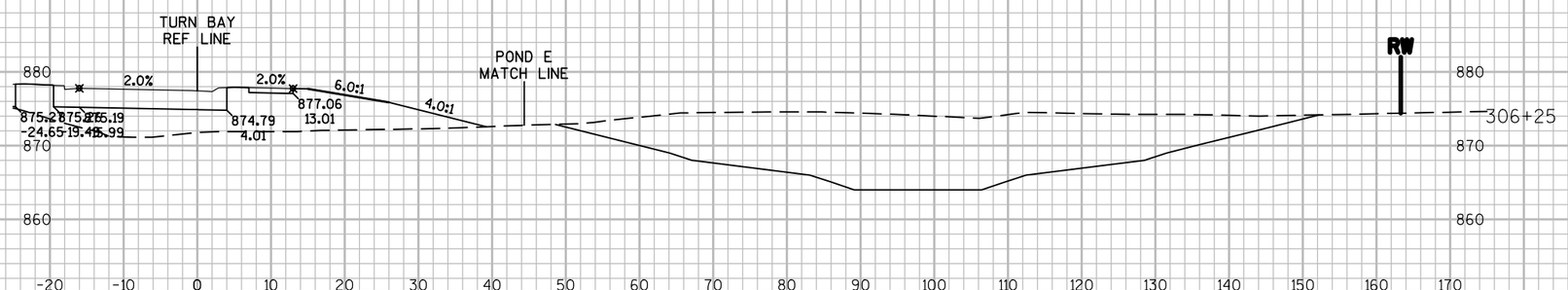
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_POND E.DWG
LAYOUT NAME - XS - (79)

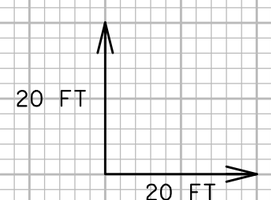
PLOT DATE : 9/26/2014 2:33 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49









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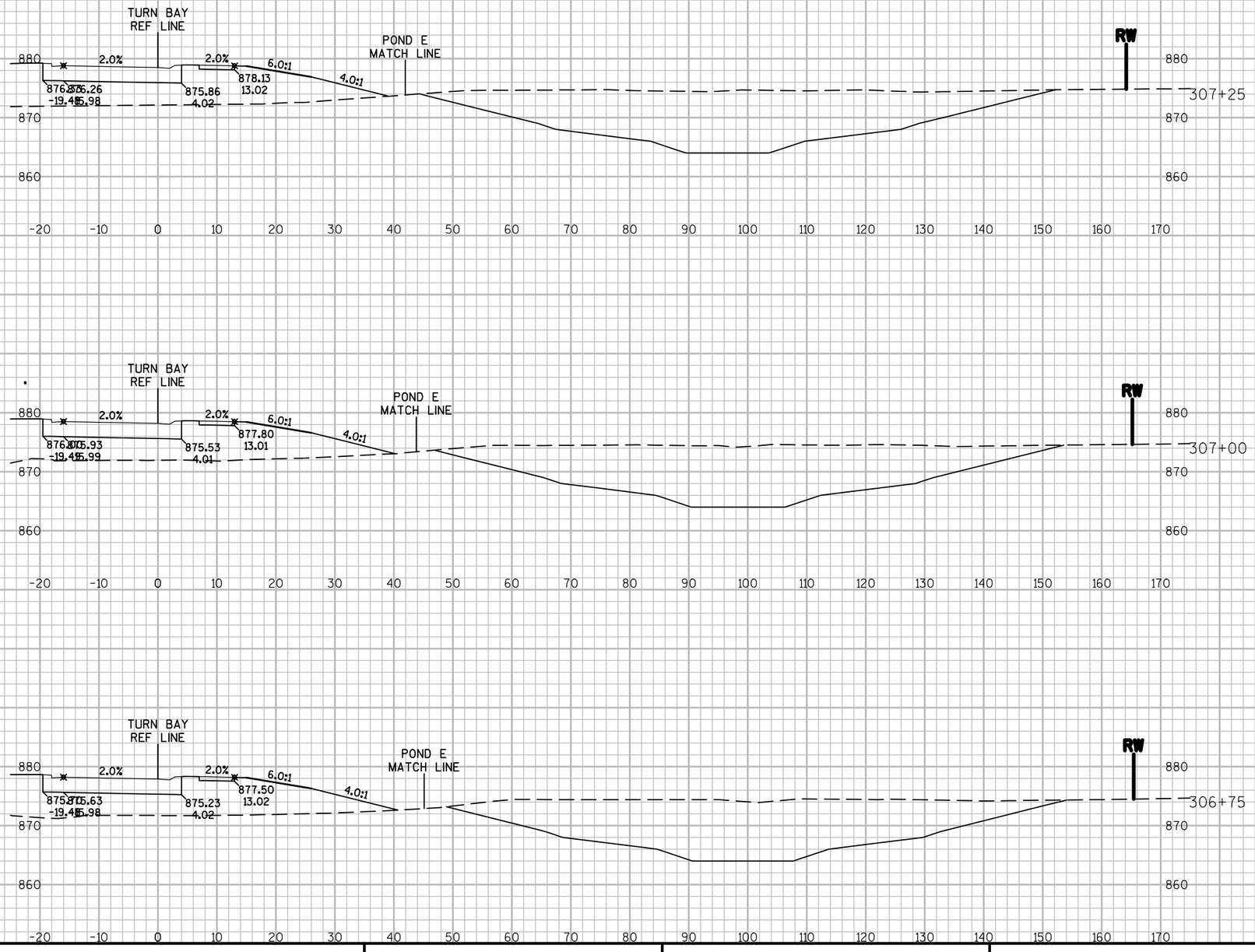
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: POND E	SHEET 1026	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_POND E.DWG
LAYOUT NAME - XS - (80)
PLOT DATE : 9/26/2014 2:33 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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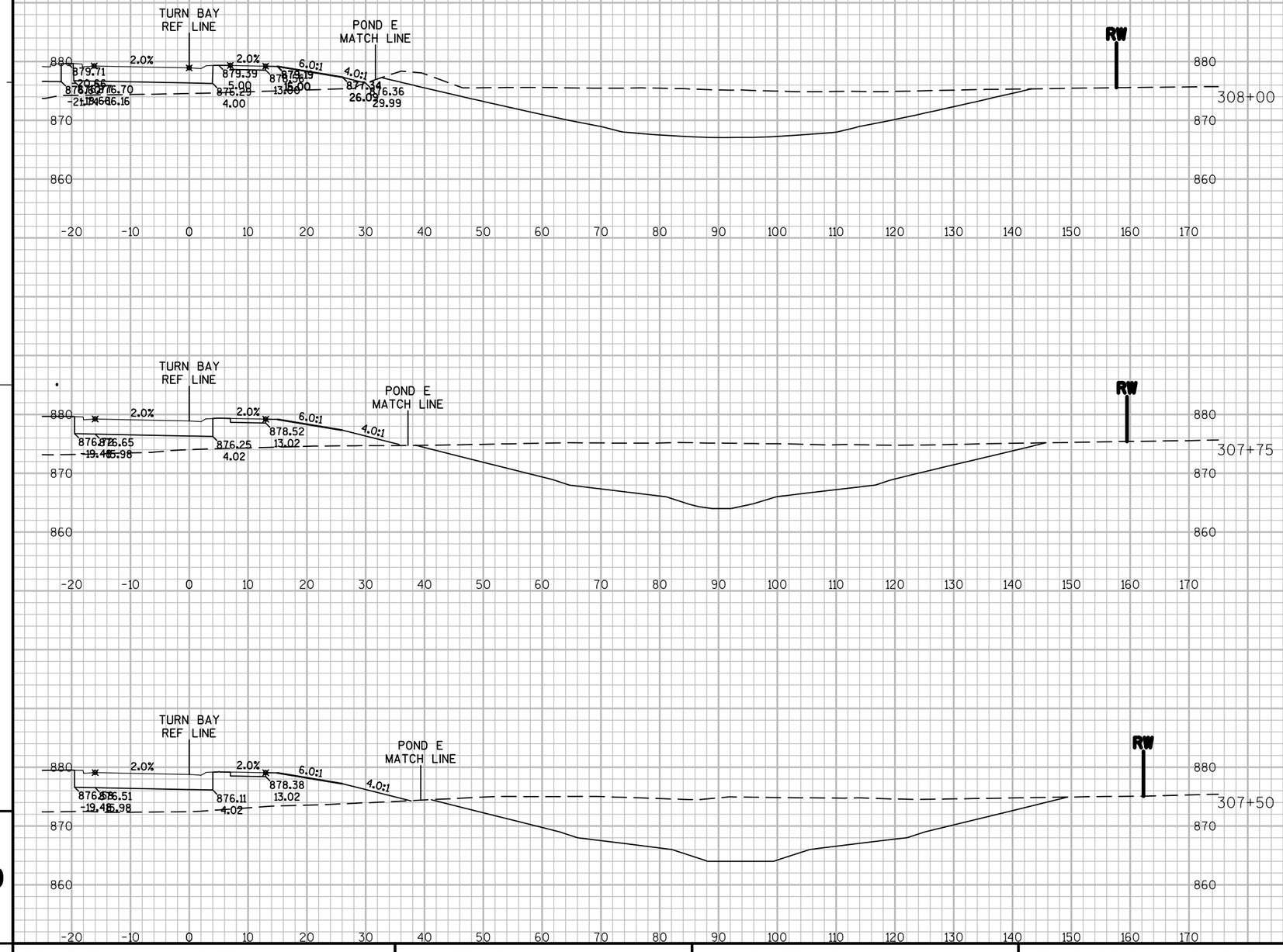
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: POND E	SHEET 1027	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_POND E.DWG
LAYOUT NAME - XS - (81)
PLOT DATE : 9/26/2014 2:33 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49



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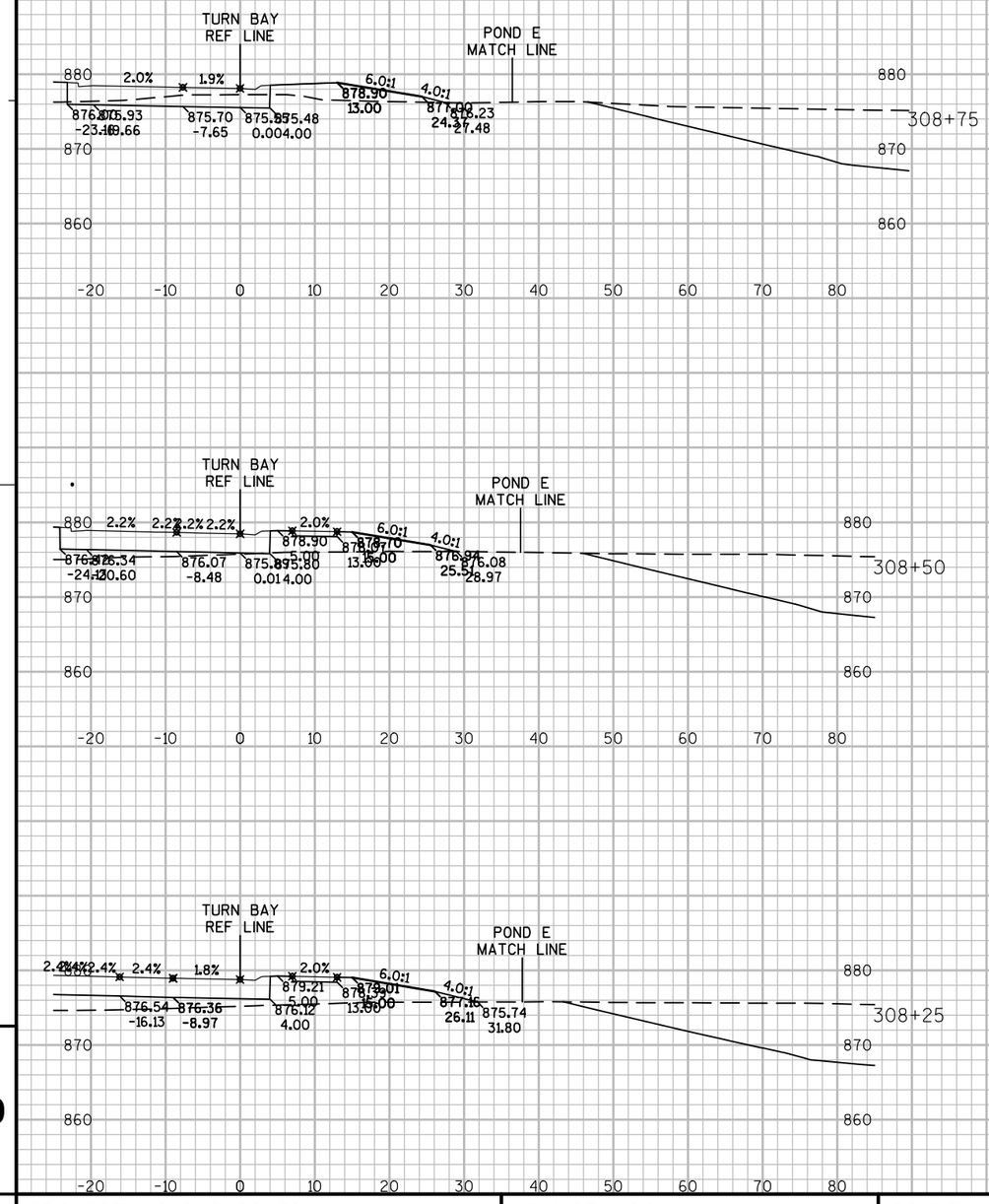
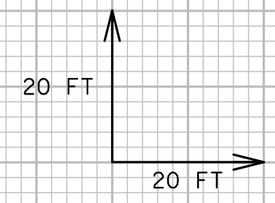
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: POND E	SHEET 1028	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_POND E.DWG
LAYOUT NAME - XS - (82)
PLOT DATE : 9/26/2014 2:33 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49





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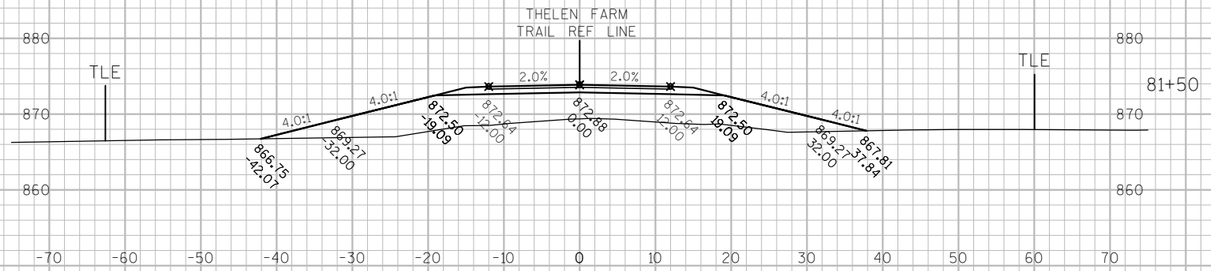
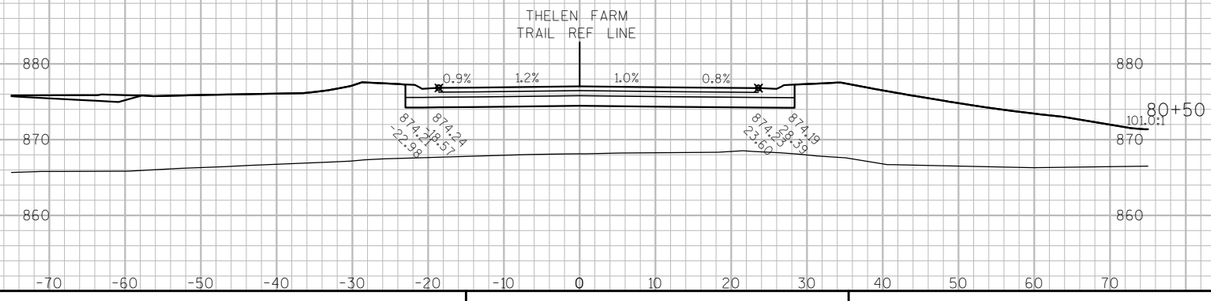
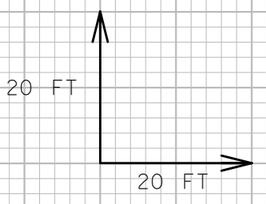
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: POND E	SHEET 1029	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090280_XS_POND E.DWG
LAYOUT NAME - XS - (83)
PLOT DATE : 9/26/2014 2:34 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49







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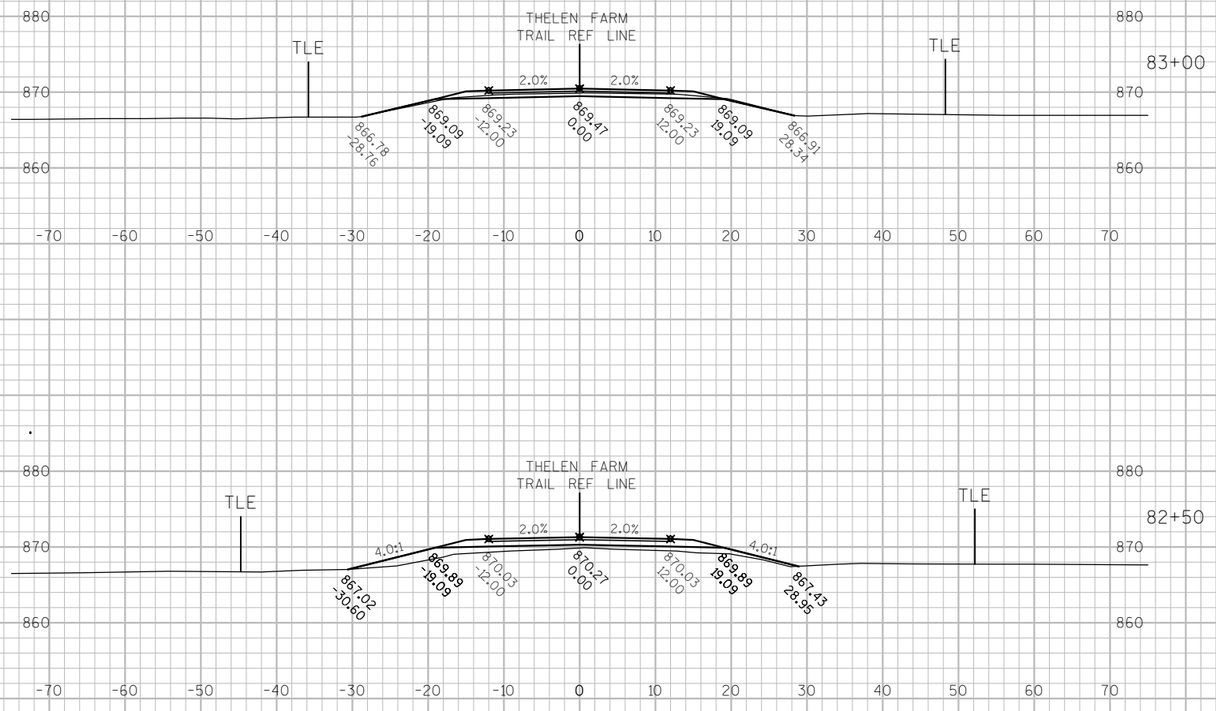
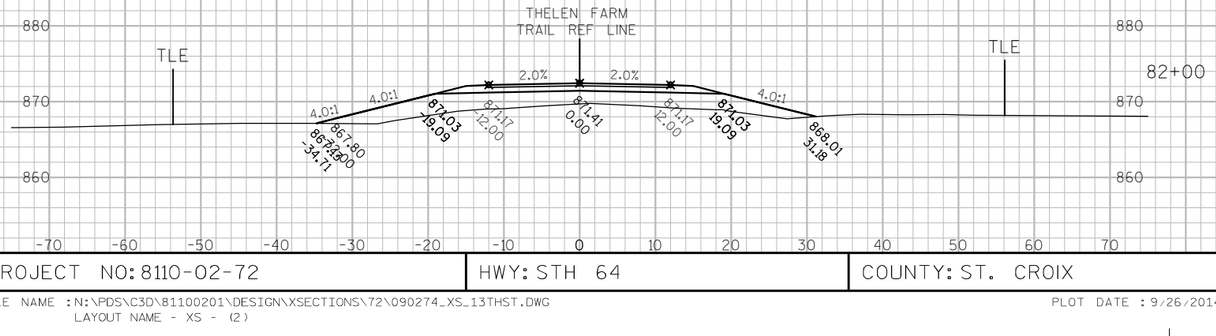
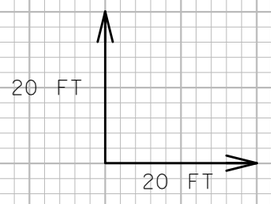
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: THELEN FARM TRAIL	SHEET 1030	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090274_XS_13THST.DWG
LAYOUT NAME - XS - (1)
PLOT DATE : 9/26/2014 2:27 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME : ----------
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49







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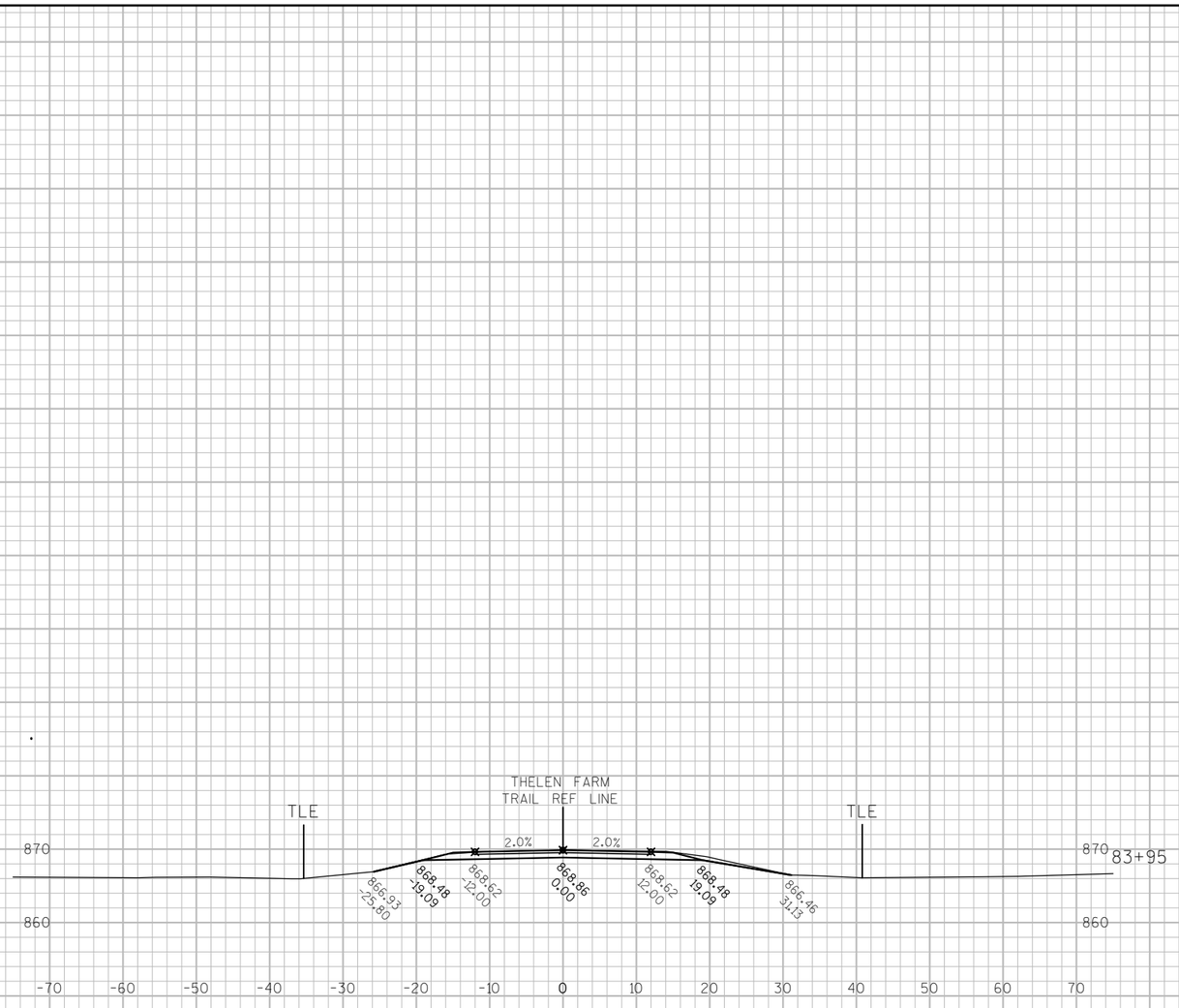
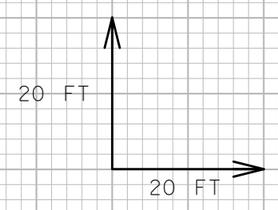
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: THELEN FARM TRAIL	SHEET 1031	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090274_XS_13THST.DWG
LAYOUT NAME - XS - (2)
PLOT DATE : 9/26/2014 2:28 AM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME : ----------
PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49





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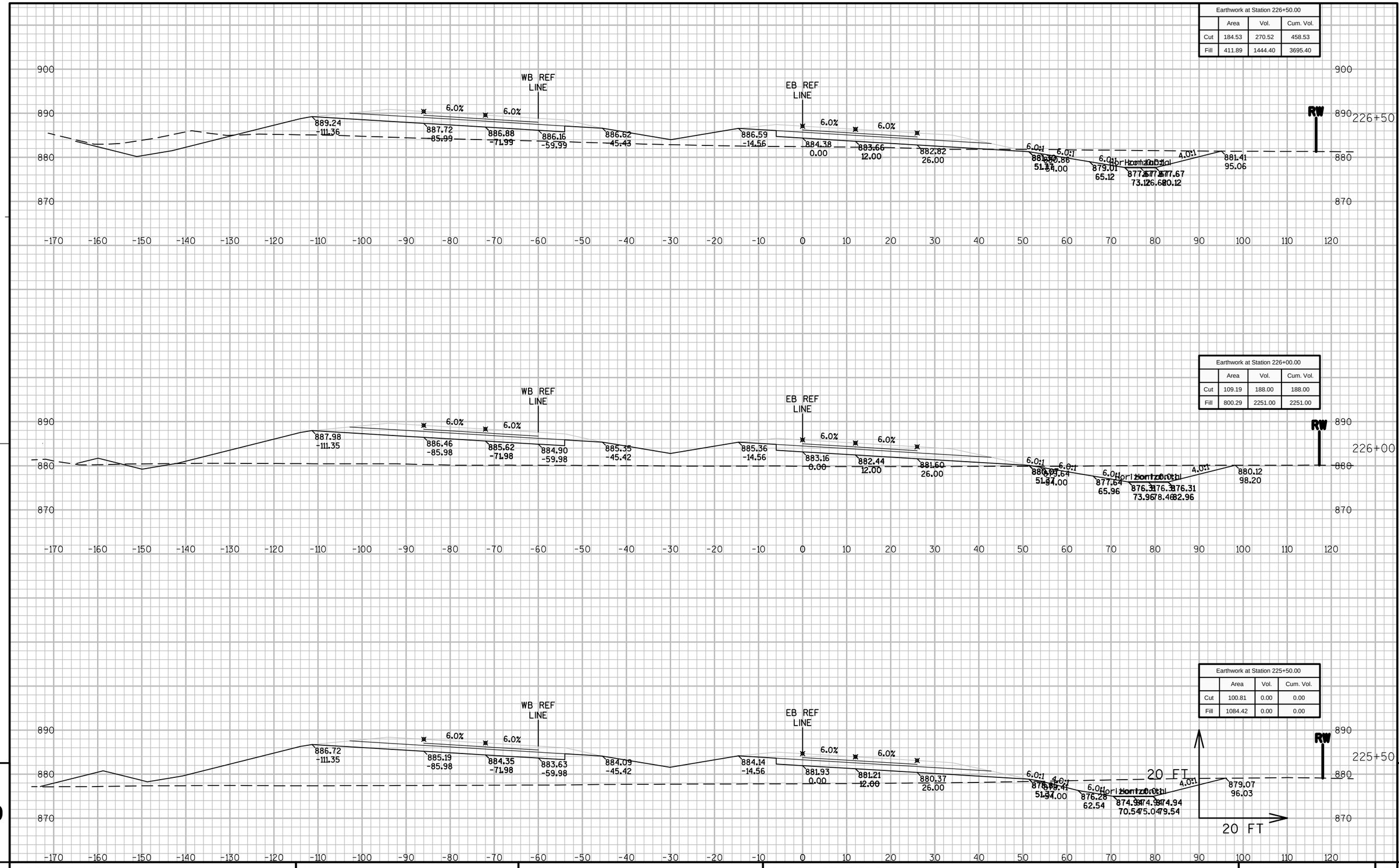
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: THELEN FARM TRAIL	SHEET 1032	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090274_XS_13THST.DWG
LAYOUT NAME - XS - (3)

PLOT DATE : 9/26/2014 2:28 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

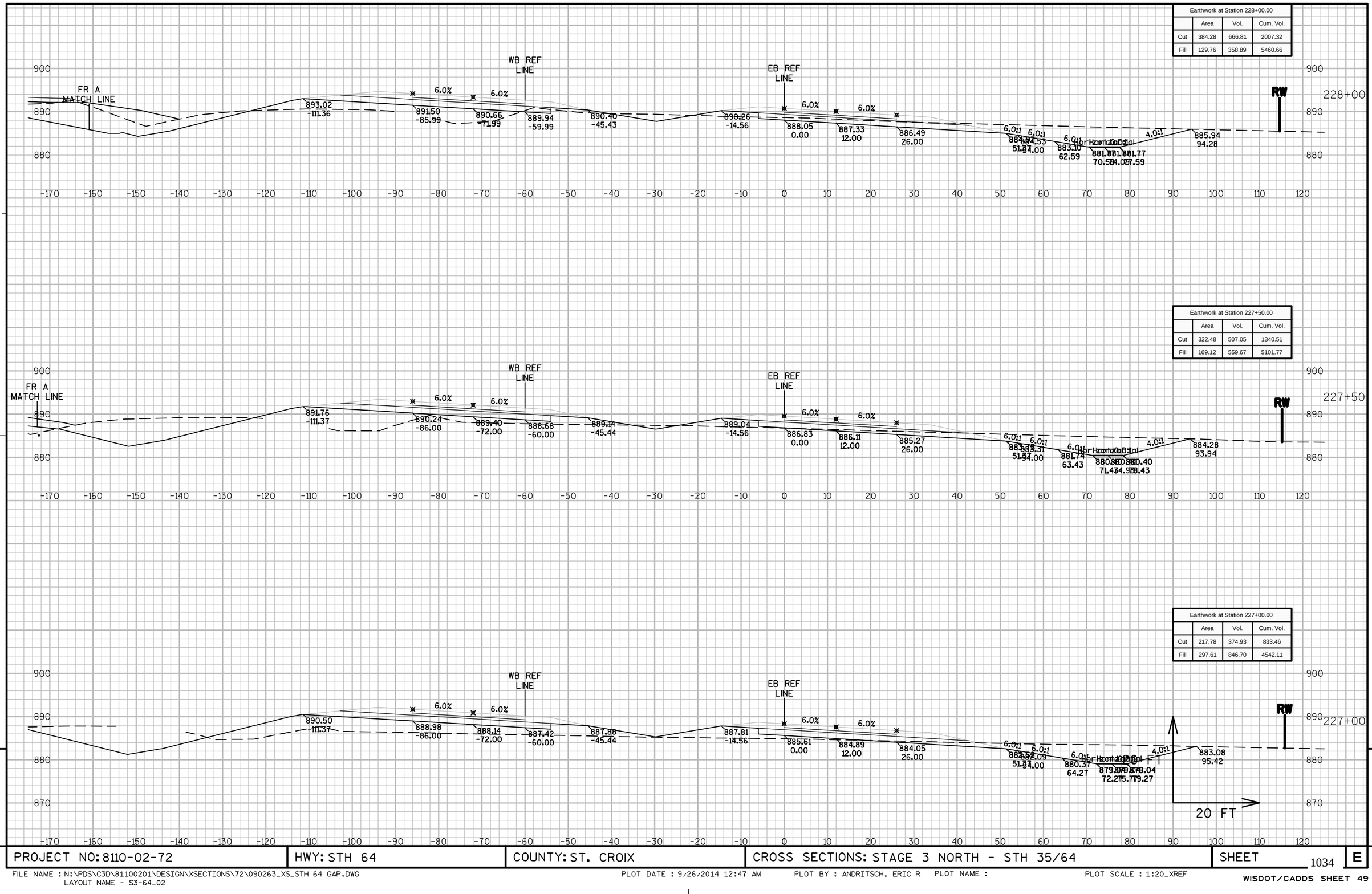


9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64	SHEET 1033	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_STH 64 GAP.DWG
LAYOUT NAME - S3-64_01
PLOT DATE : 9/26/2014 12:46 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

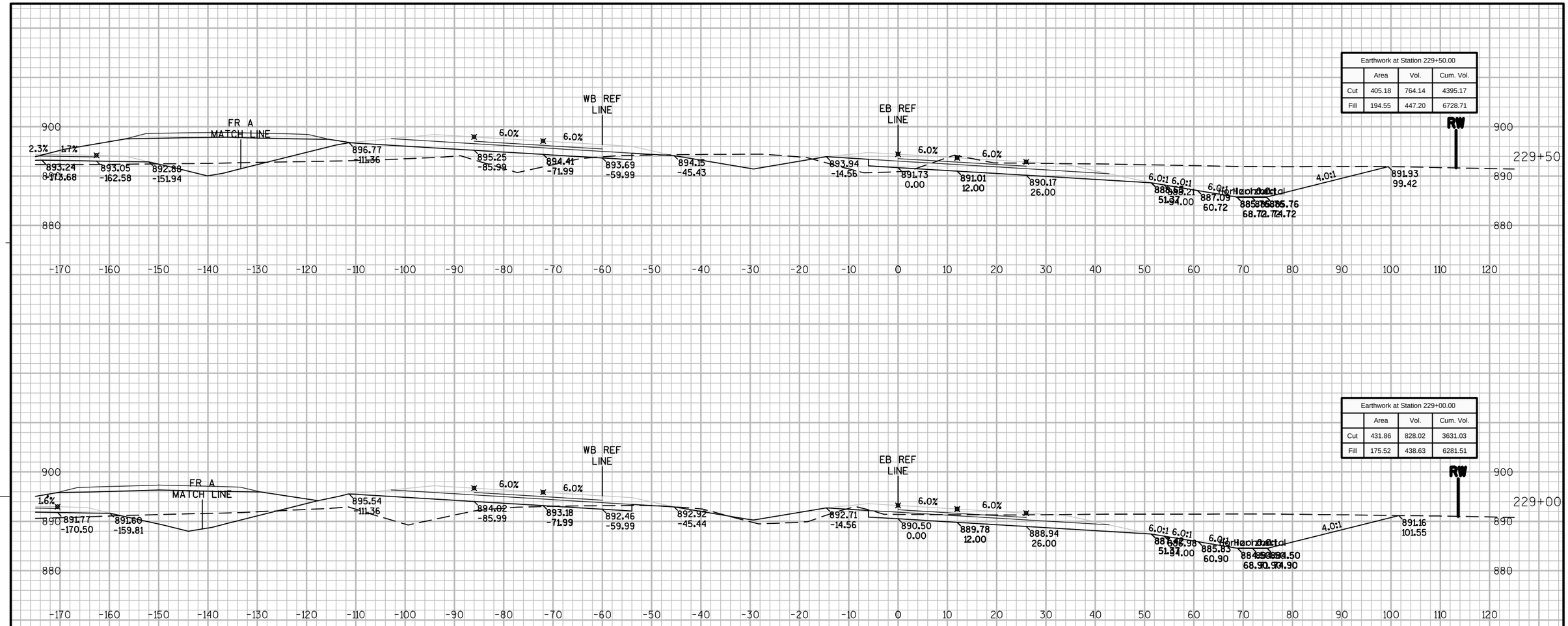


9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64	SHEET 1034	E

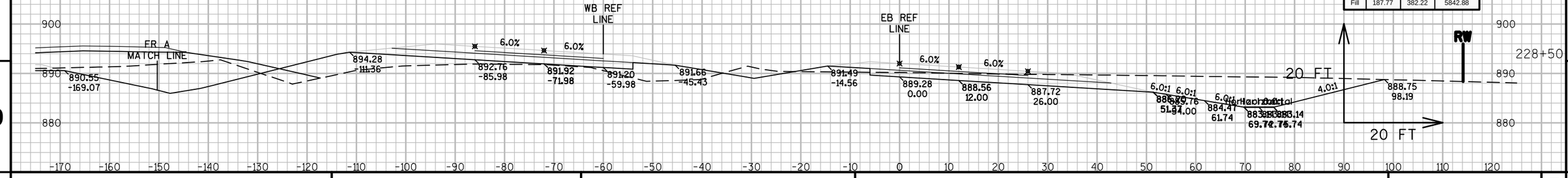
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_STH 64 GAP.DWG
LAYOUT NAME - S3-64_02

PLOT DATE : 9/26/2014 12:47 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 229+50.00			
	Area	Vol.	Cum. Vol.
Cut	405.18	764.14	4395.17
Fill	194.55	447.20	6728.71

Earthwork at Station 229+00.00			
	Area	Vol.	Cum. Vol.
Cut	431.86	828.02	3631.03
Fill	175.52	438.63	6281.51



Earthwork at Station 228+50.00			
	Area	Vol.	Cum. Vol.
Cut	465.74	795.69	2803.01
Fill	187.77	382.22	5842.88

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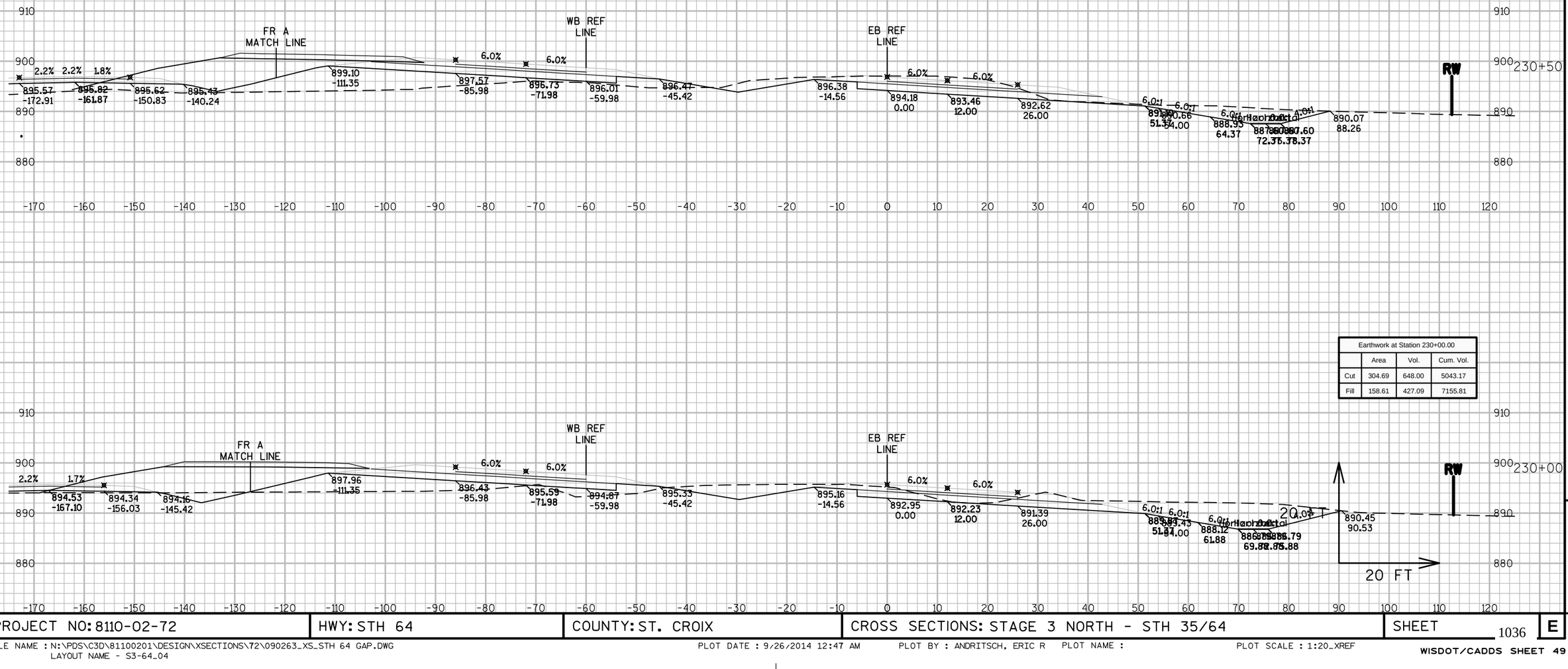
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64	SHEET 1035	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_STH 64 GAP.DWG
LAYOUT NAME - S3-64_03
PLOT DATE : 9/26/2014 12:47 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



9

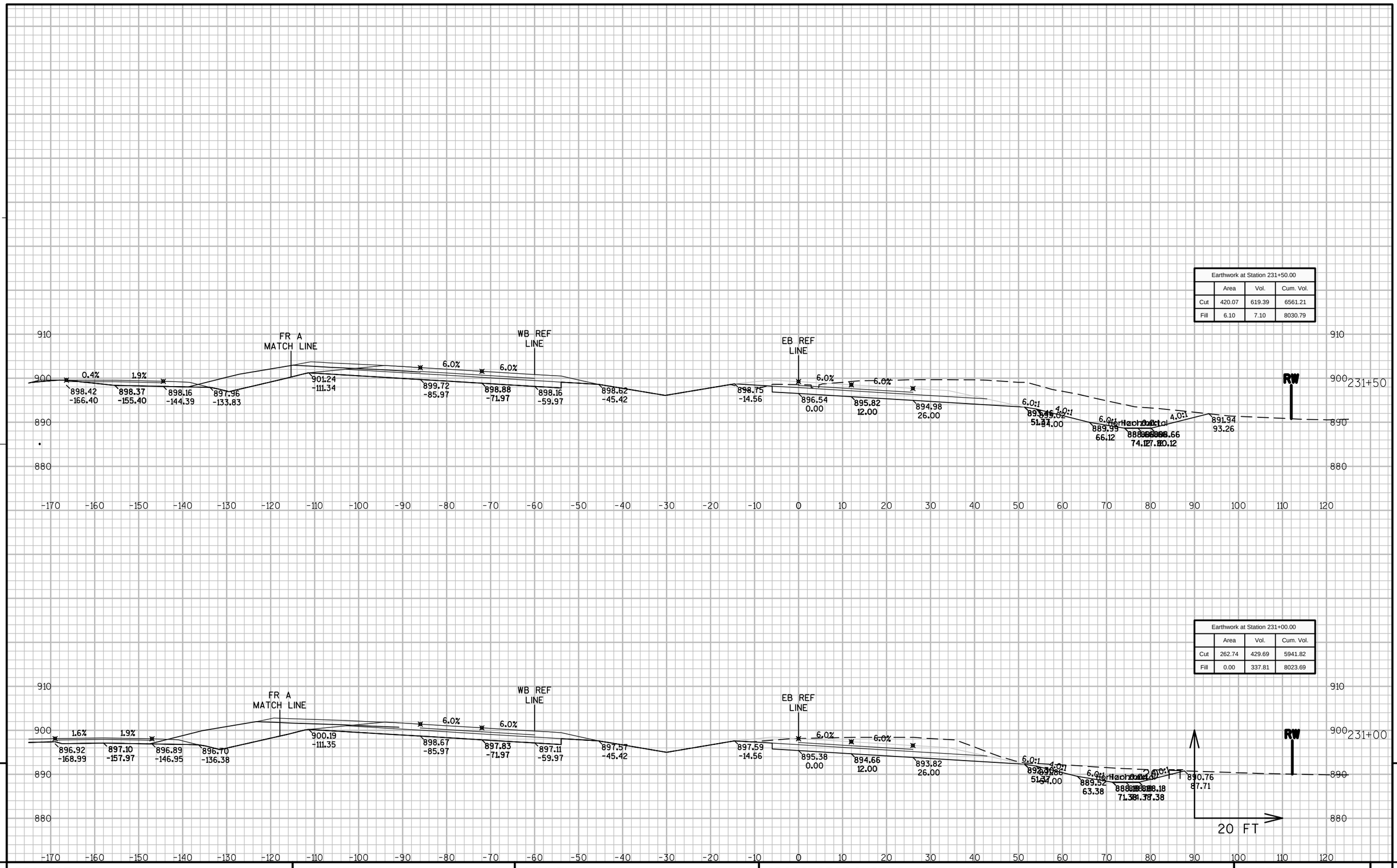
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64	SHEET 1036	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_STH 64 GAP.DWG
LAYOUT NAME - S3-64_04

PLOT DATE : 9/26/2014 12:47 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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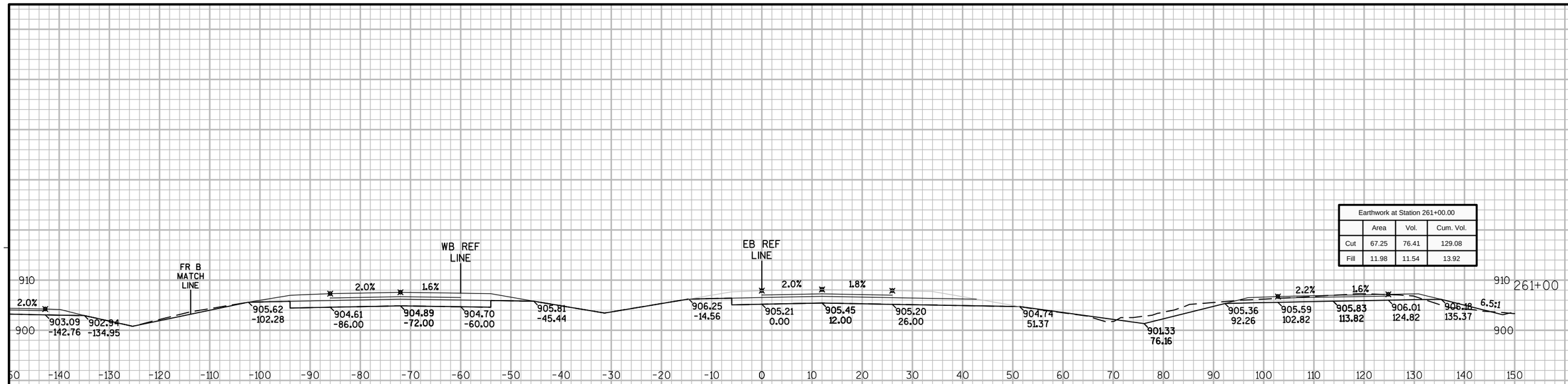
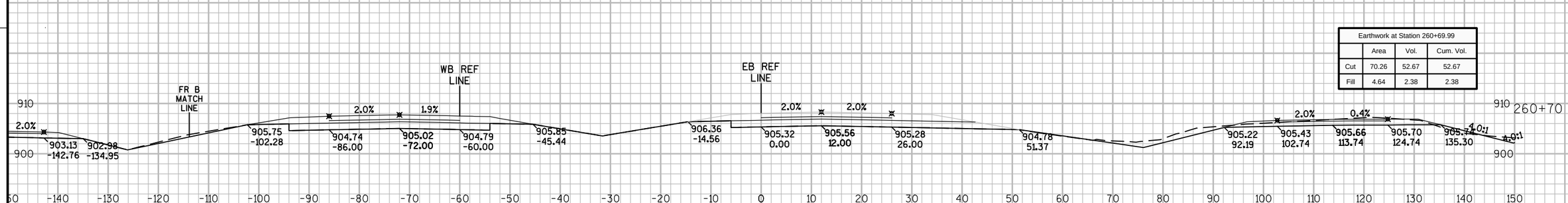
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64	SHEET 1037 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_STH 64 GAP.DWG
LAYOUT NAME - S3-64_05

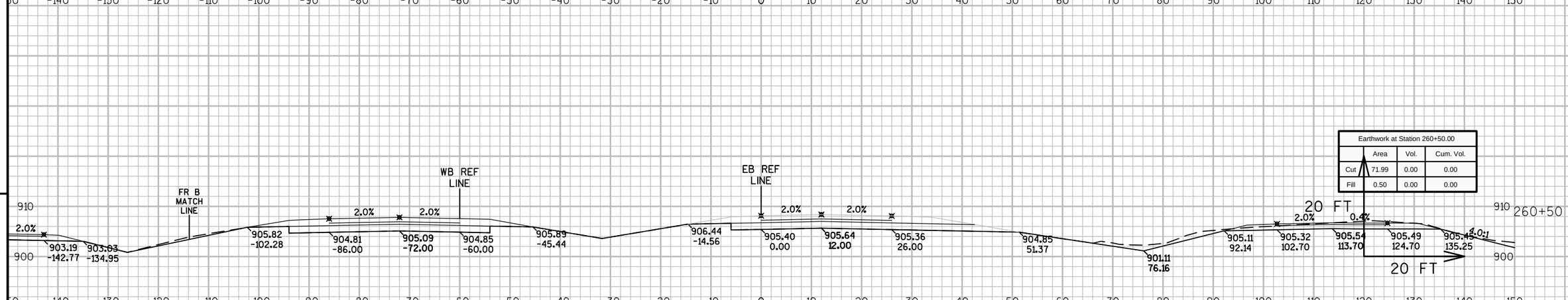
PLOT DATE : 9/26/2014 12:48 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 261+00.00			
	Area	Vol.	Cum. Vol.
Cut	67.25	76.41	129.08
Fill	11.98	11.54	13.92



Earthwork at Station 260+69.99			
	Area	Vol.	Cum. Vol.
Cut	70.26	52.67	52.67
Fill	4.64	2.38	2.38



Earthwork at Station 260+50.00			
	Area	Vol.	Cum. Vol.
Cut	71.99	0.00	0.00
Fill	0.50	0.00	0.00

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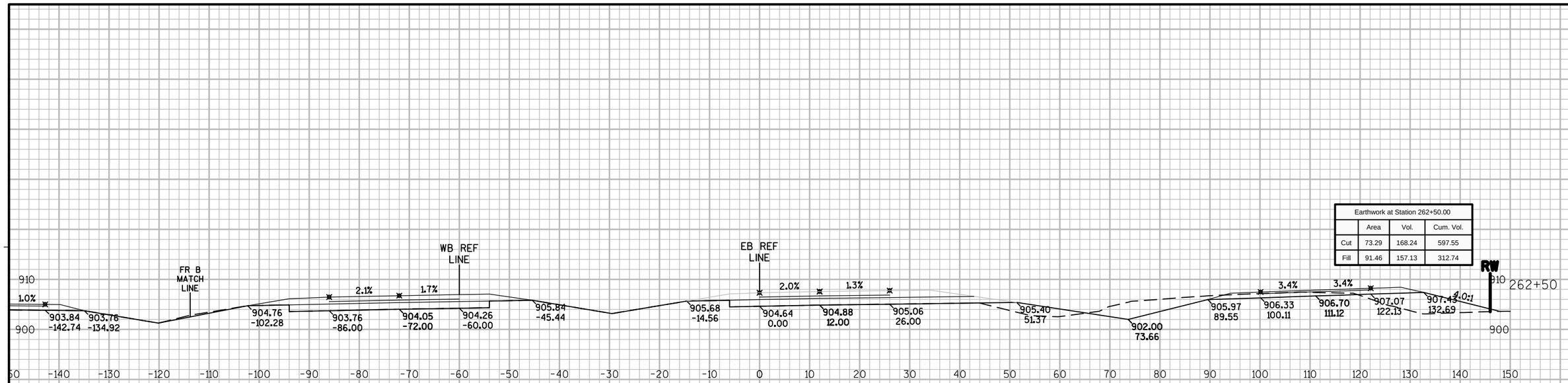
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1038	E

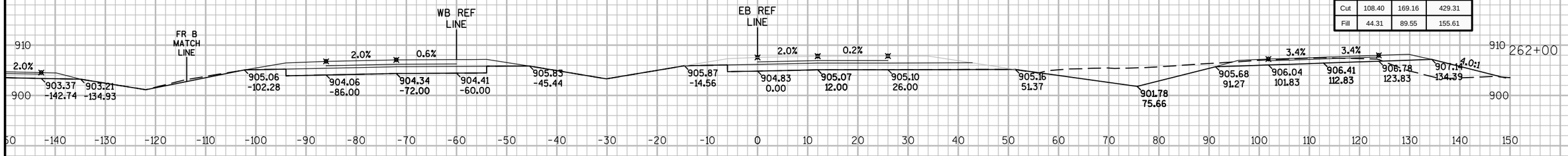
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-01

PLOT DATE : 9/25/2014 11:57 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



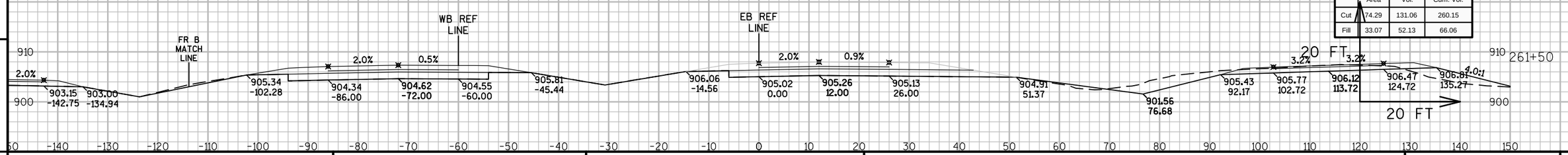
Earthwork at Station 262+50.00

	Area	Vol.	Cum. Vol.
Cut	73.29	168.24	597.55
Fill	91.46	157.13	312.74



Earthwork at Station 262+00.00

	Area	Vol.	Cum. Vol.
Cut	108.40	169.16	429.31
Fill	44.31	89.55	155.61



Earthwork at Station 261+50.00

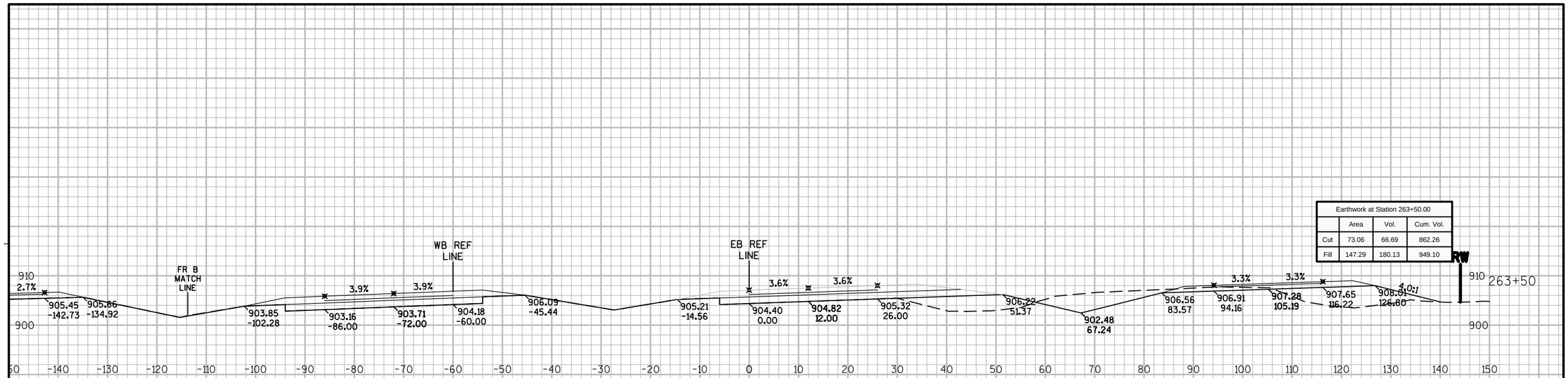
	Area	Vol.	Cum. Vol.
Cut	74.29	131.06	260.15
Fill	33.07	52.13	66.06

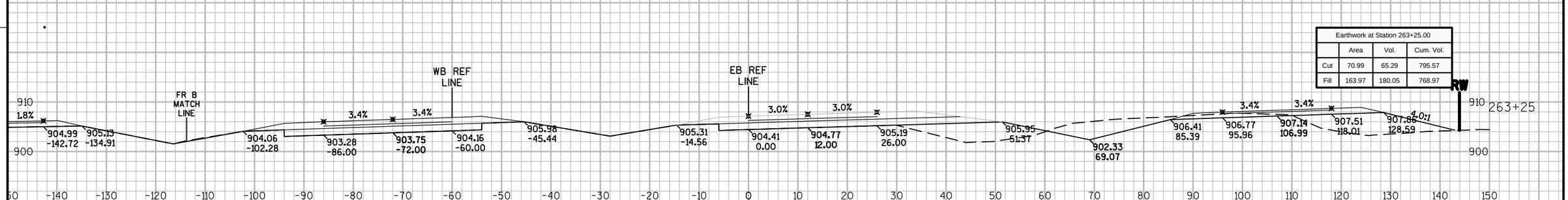
9 9

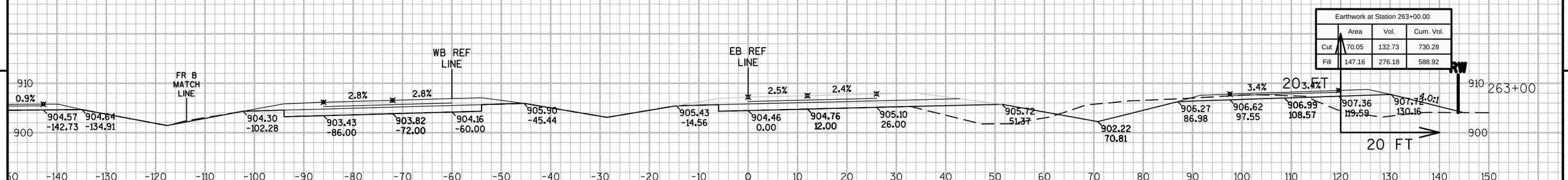
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1039	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-02

PLOT DATE : 9/25/2014 11:58 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF







9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1040	E

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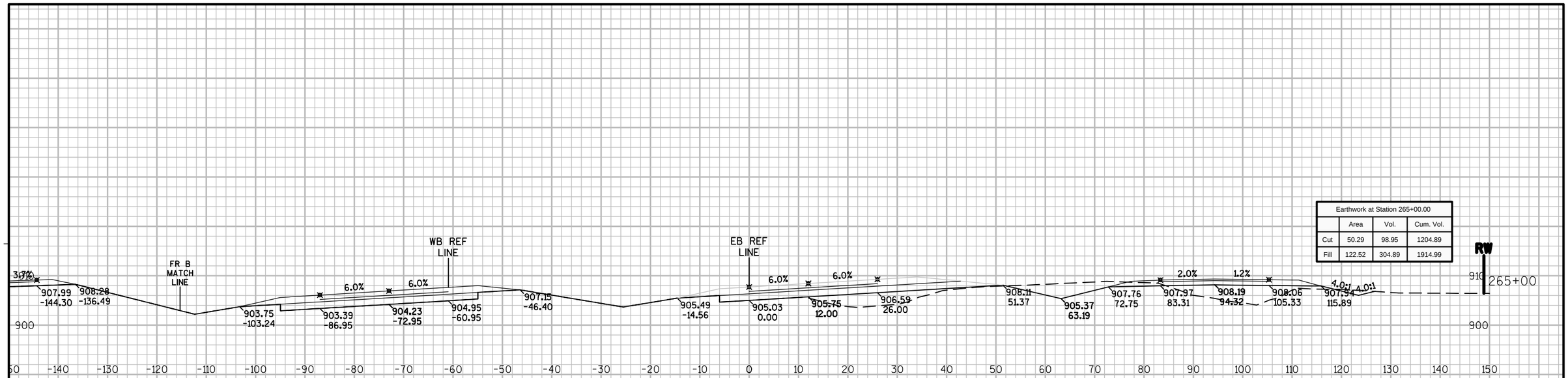
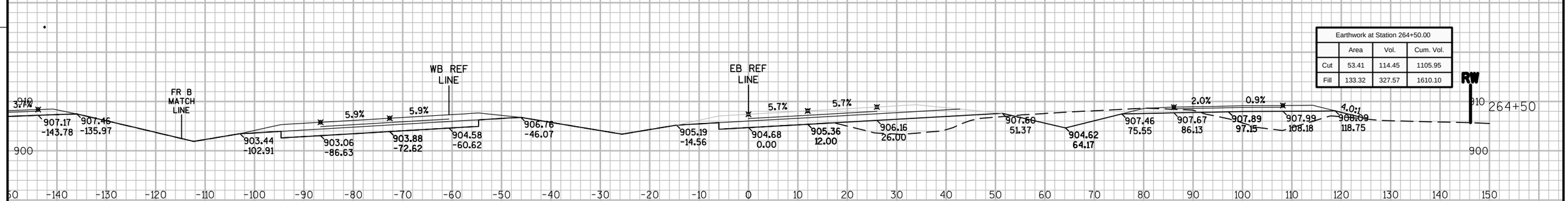
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-03

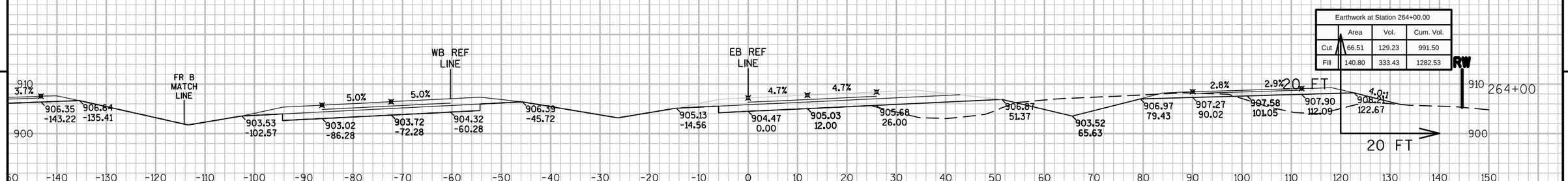
PLOT DATE : 9/25/2014 11:58 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 265+00.00			
	Area	Vol.	Cum. Vol.
Cut	50.29	98.95	1204.89
Fill	122.52	304.89	1914.99



Earthwork at Station 264+50.00			
	Area	Vol.	Cum. Vol.
Cut	53.41	114.45	1105.95
Fill	133.32	327.57	1610.10



Earthwork at Station 264+00.00			
	Area	Vol.	Cum. Vol.
Cut	66.51	129.23	991.50
Fill	140.80	333.43	1282.53

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PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1041	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-04

PLOT DATE : 9/25/2014 11:58 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

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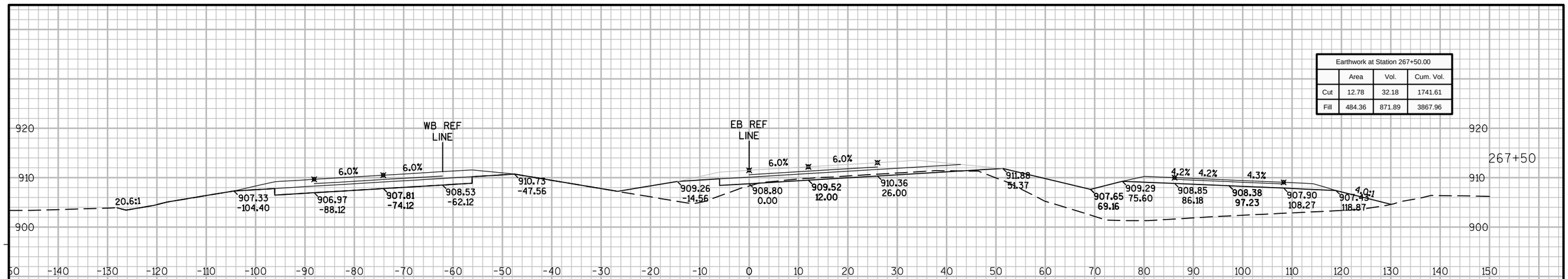
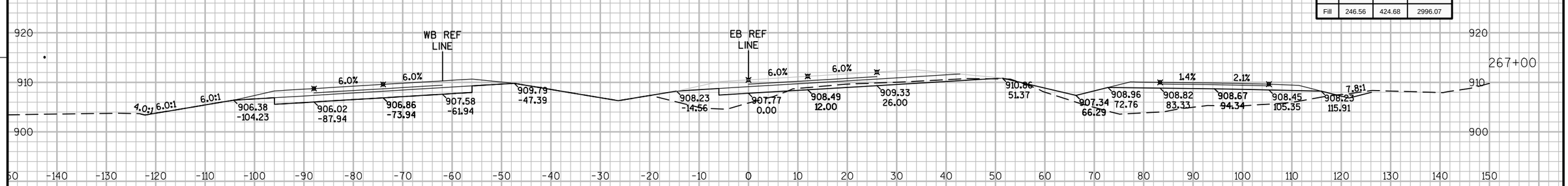
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1042	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-05

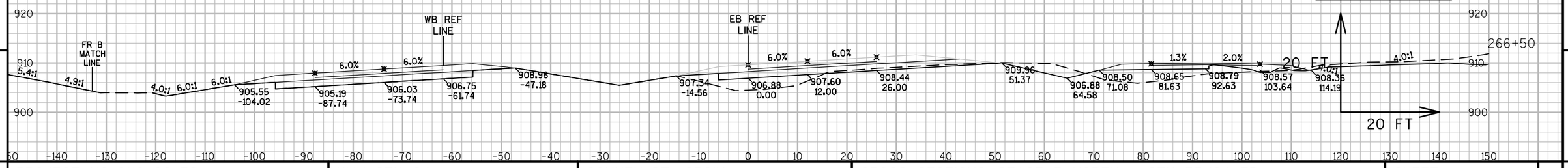
PLOT DATE : 9/25/2014 11:58 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



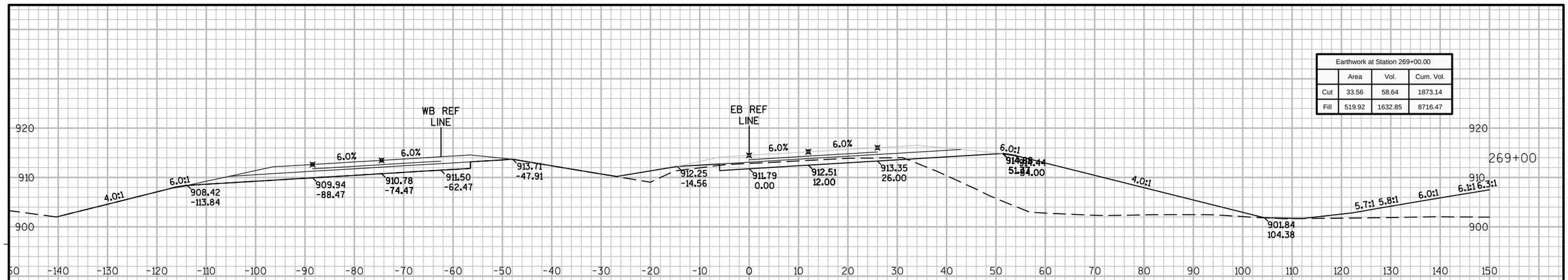
Earthwork at Station 267+50.00			
	Area	Vol.	Cum. Vol.
Cut	12.78	32.18	1741.61
Fill	484.36	871.89	3867.96



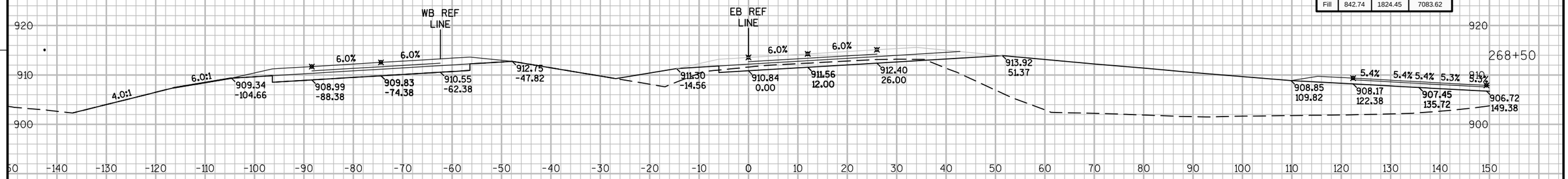
Earthwork at Station 267+00.00			
	Area	Vol.	Cum. Vol.
Cut	21.43	83.75	1709.43
Fill	246.56	424.68	2996.07



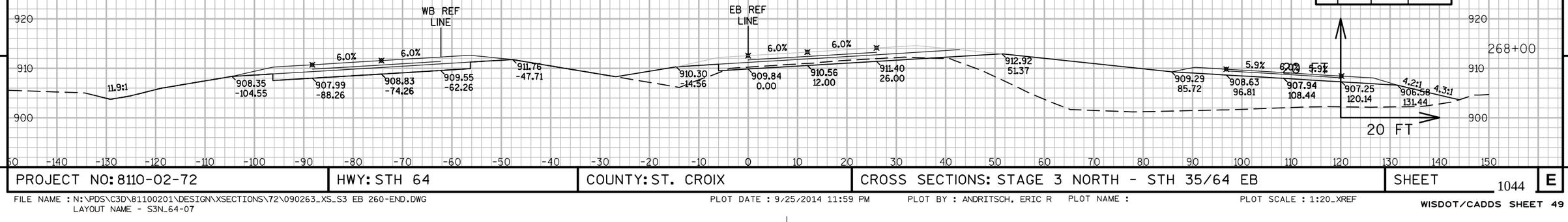
Earthwork at Station 266+50.00			
	Area	Vol.	Cum. Vol.
Cut	66.00	45.09	1625.68
Fill	111.21	65.99	2571.39



Earthwork at Station 269+00.00			
	Area	Vol.	Cum. Vol.
Cut	33.56	58.64	1873.14
Fill	519.92	1632.85	8716.47



Earthwork at Station 268+50.00			
	Area	Vol.	Cum. Vol.
Cut	29.45	44.18	1814.50
Fill	842.74	1824.45	7083.62



Earthwork at Station 268+00.00			
	Area	Vol.	Cum. Vol.
Cut	17.97	28.71	1770.32
Fill	678.55	1391.22	5259.17

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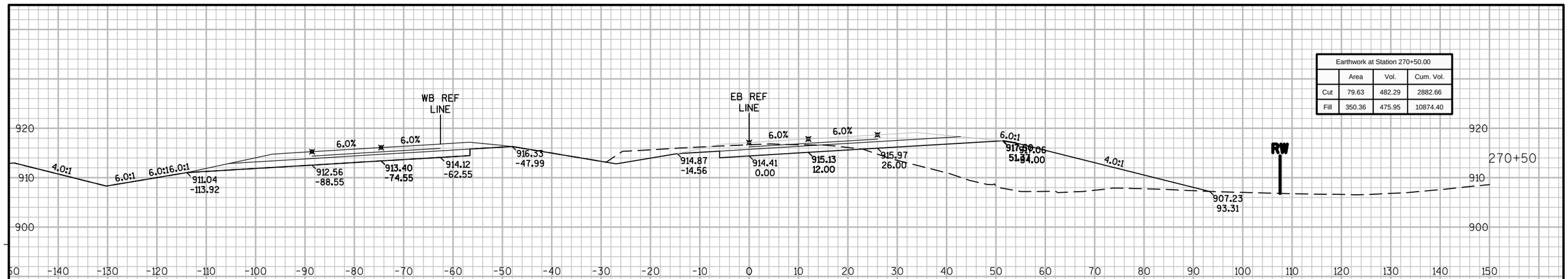
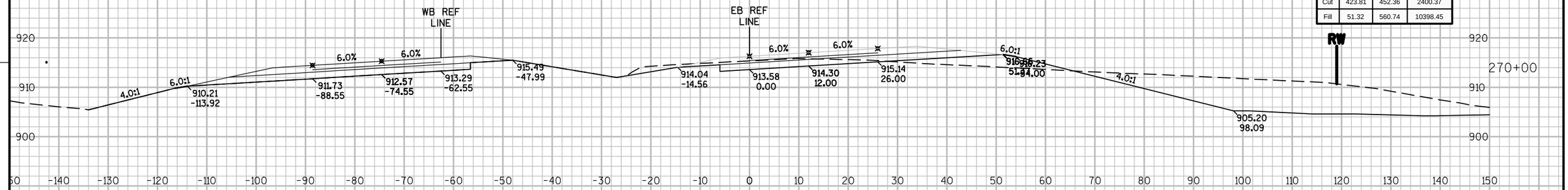
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1044	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-07

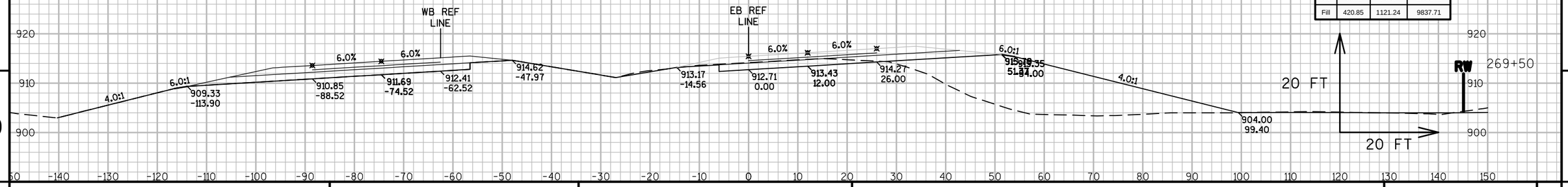
PLOT DATE : 9/25/2014 11:59 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 270+50.00			
	Area	Vol.	Cum. Vol.
Cut	79.63	482.29	2882.66
Fill	350.36	475.95	10874.40



Earthwork at Station 270+00.00			
	Area	Vol.	Cum. Vol.
Cut	423.81	452.36	2400.37
Fill	51.32	560.74	10398.45

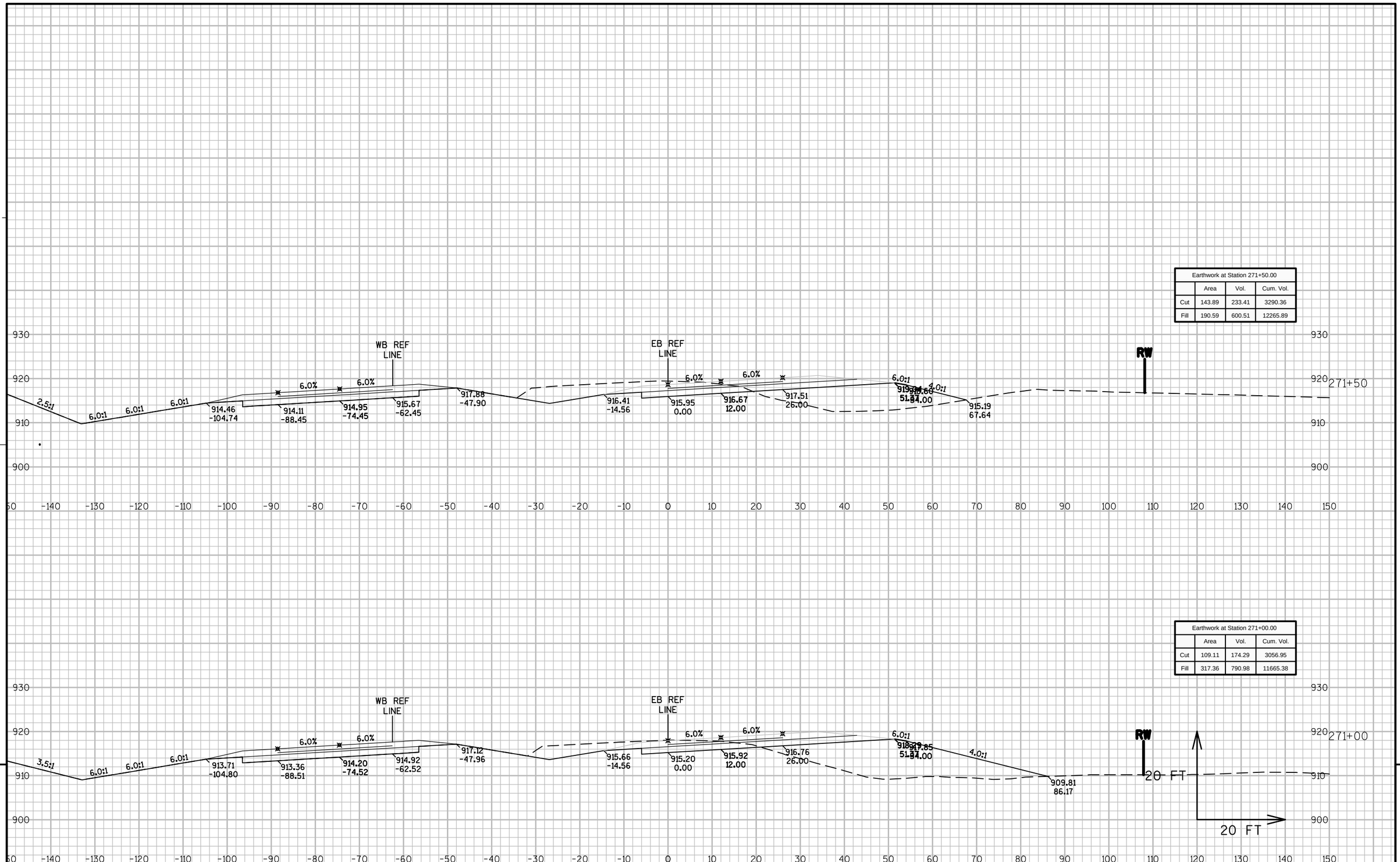


Earthwork at Station 269+50.00			
	Area	Vol.	Cum. Vol.
Cut	46.72	74.87	1948.01
Fill	420.85	1121.24	9837.71

9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1045	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-08
PLOT DATE : 9/25/2014 11:59 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

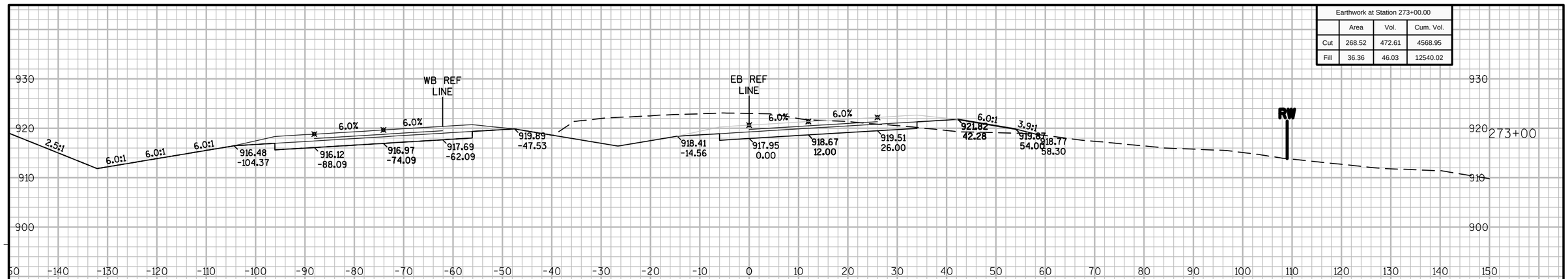


PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1046	E

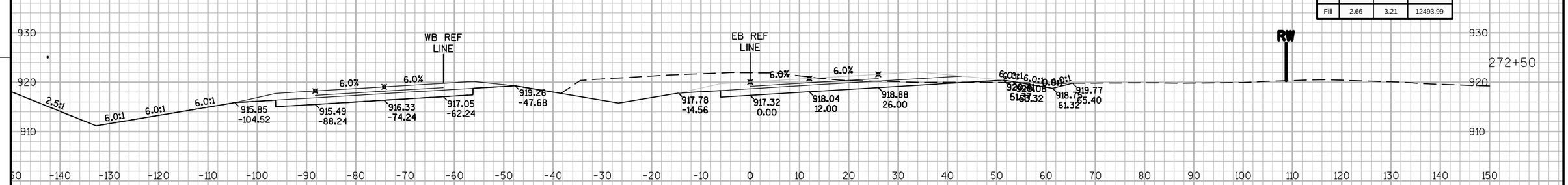
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-09

PLOT DATE : 9/26/2014 12:00 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

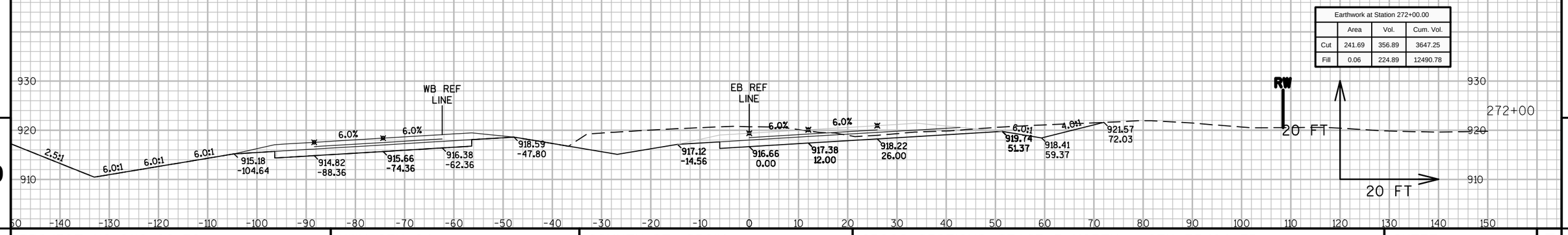
WISDOT/CADDS SHEET 49



Earthwork at Station 273+00.00			
	Area	Vol.	Cum. Vol.
Cut	268.52	472.61	4568.95
Fill	36.36	46.03	12540.02



Earthwork at Station 272+50.00			
	Area	Vol.	Cum. Vol.
Cut	243.47	449.09	4096.34
Fill	2.66	3.21	12493.99



Earthwork at Station 272+00.00			
	Area	Vol.	Cum. Vol.
Cut	241.69	356.89	3647.25
Fill	0.06	224.89	12490.78

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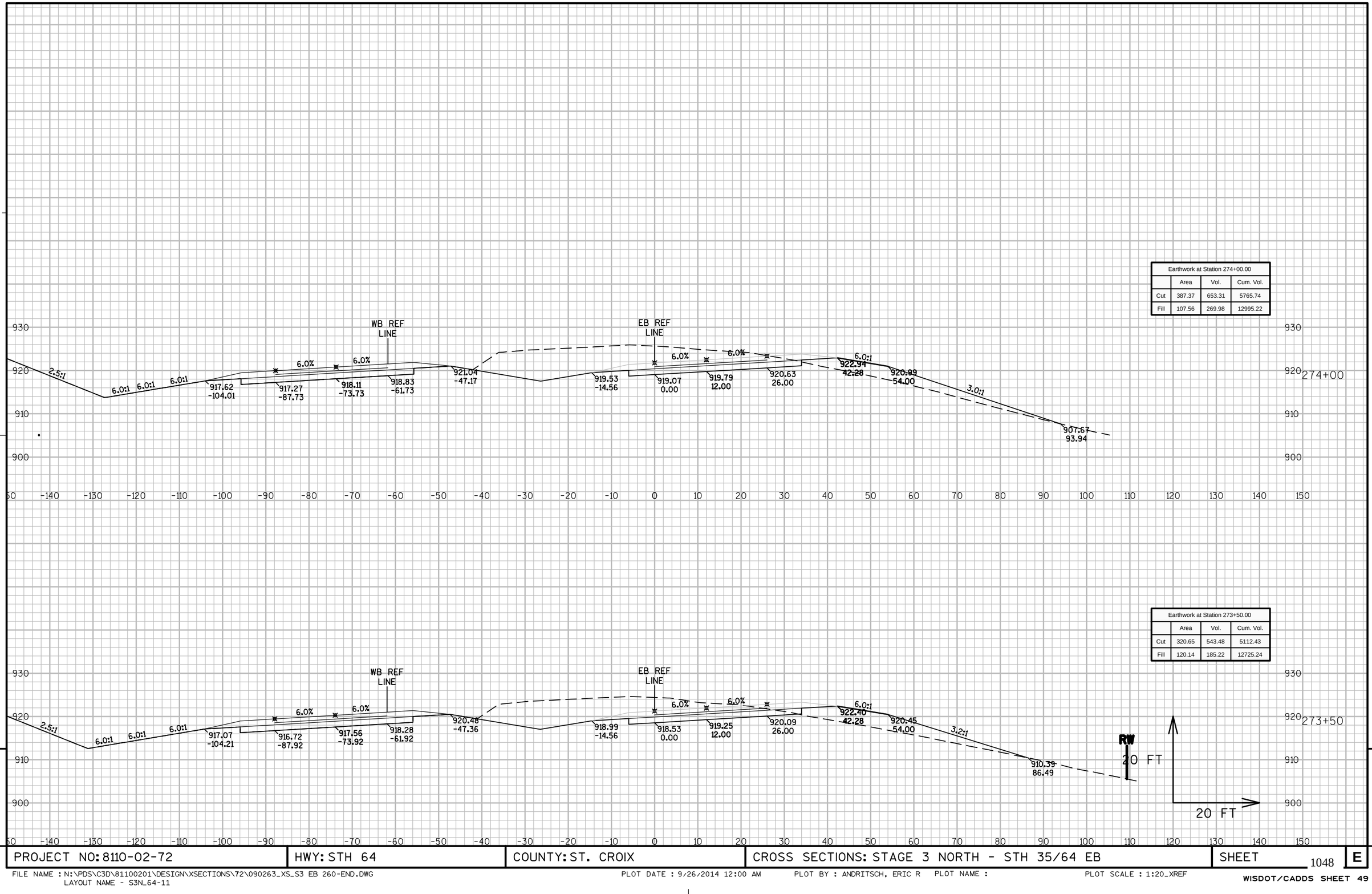
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1047	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-10

PLOT DATE : 9/26/2014 12:00 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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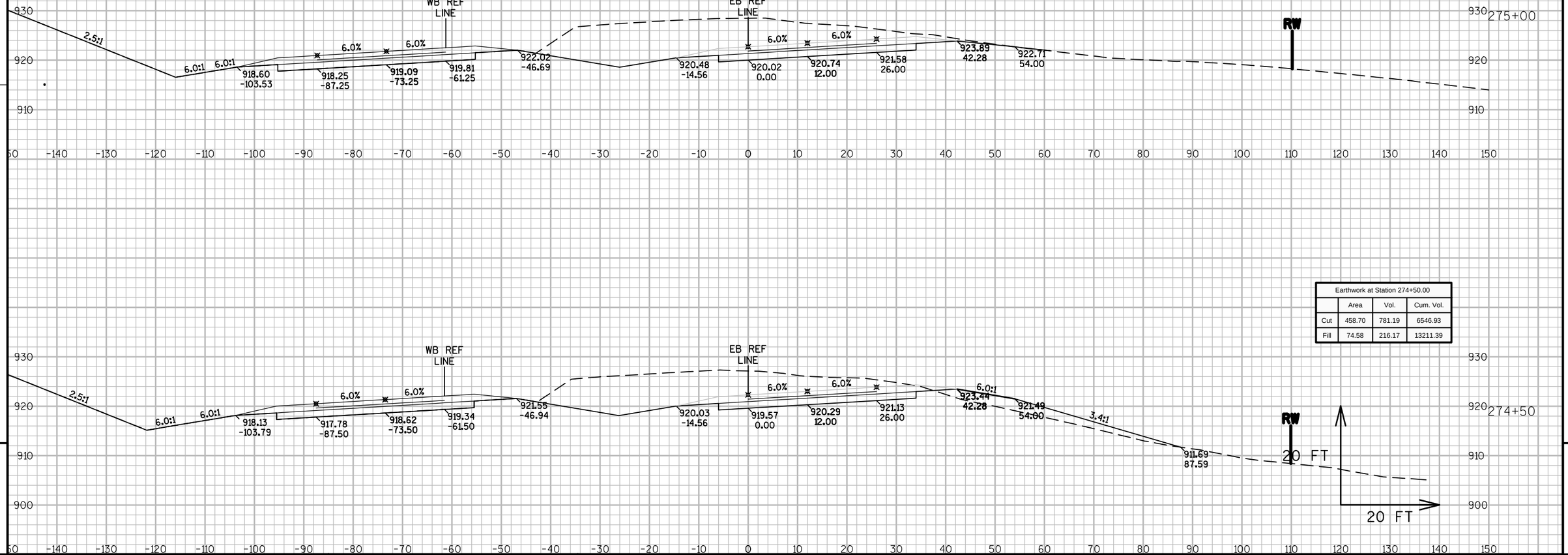
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1048	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-11

PLOT DATE : 9/26/2014 12:00 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

Earthwork at Station 275+00.00			
	Area	Vol.	Cum. Vol.
Cut	526.35	910.06	7457.00
Fill	0.15	88.71	13300.10



Earthwork at Station 274+50.00			
	Area	Vol.	Cum. Vol.
Cut	458.70	781.19	6546.93
Fill	74.58	216.17	13211.39

9

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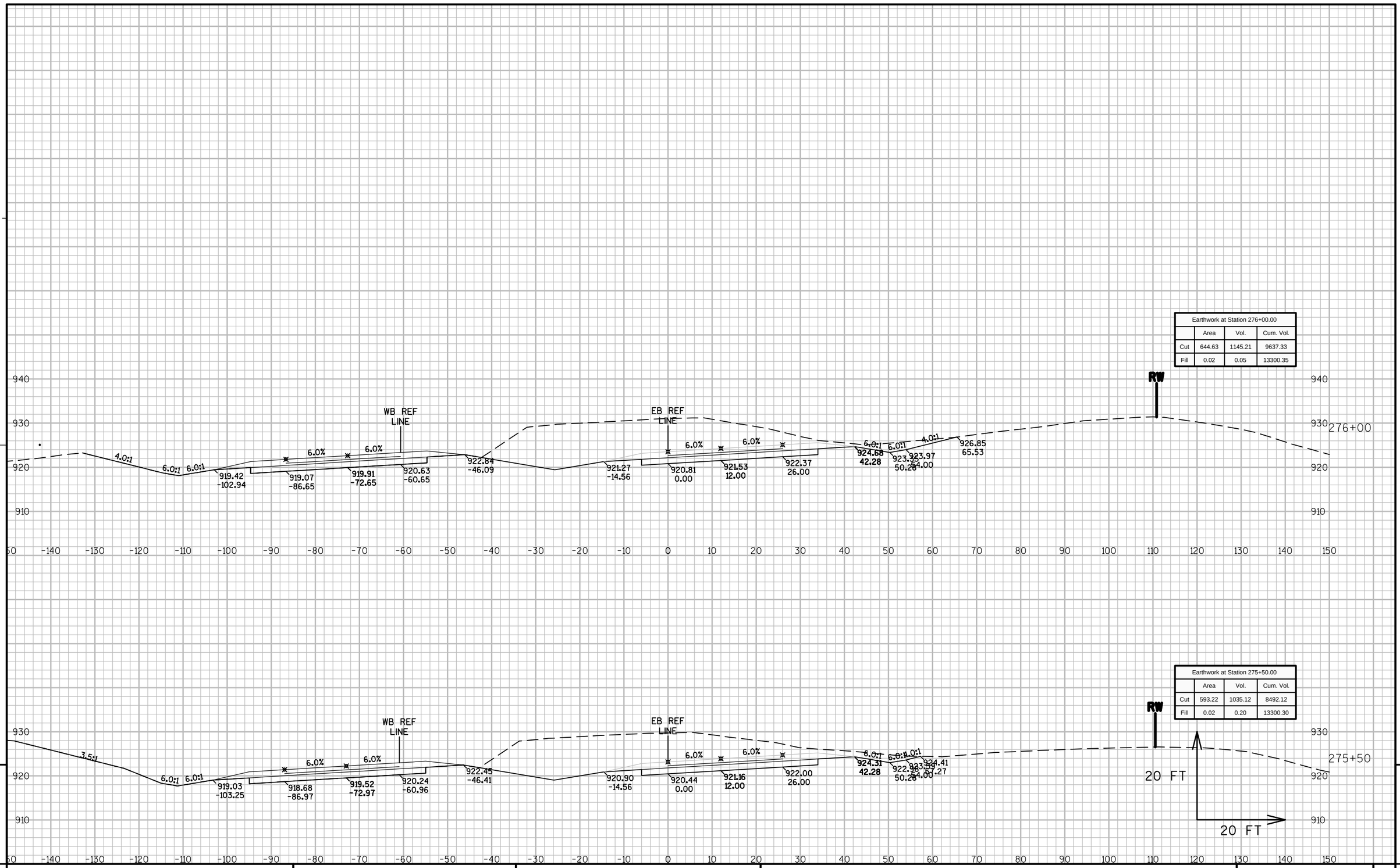
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1049	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-12

PLOT DATE : 9/26/2014 12:01 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



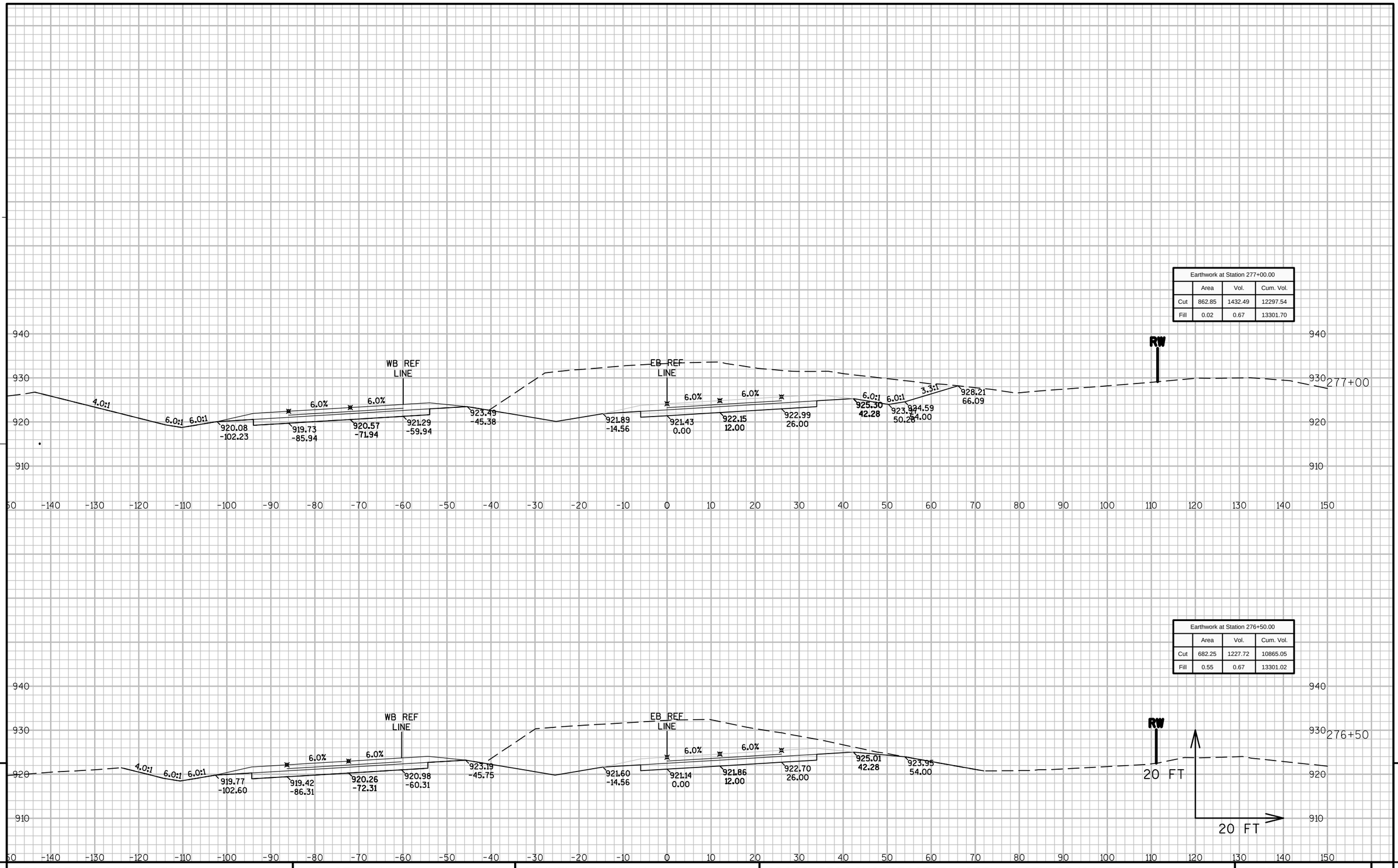
Earthwork at Station 276+00.00			
	Area	Vol.	Cum. Vol.
Cut	644.63	1145.21	9637.33
Fill	0.02	0.05	13300.30

Earthwork at Station 275+50.00			
	Area	Vol.	Cum. Vol.
Cut	593.22	1035.12	8492.12
Fill	0.02	0.20	13300.30

9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1050	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-13
PLOT DATE : 9/26/2014 12:01 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

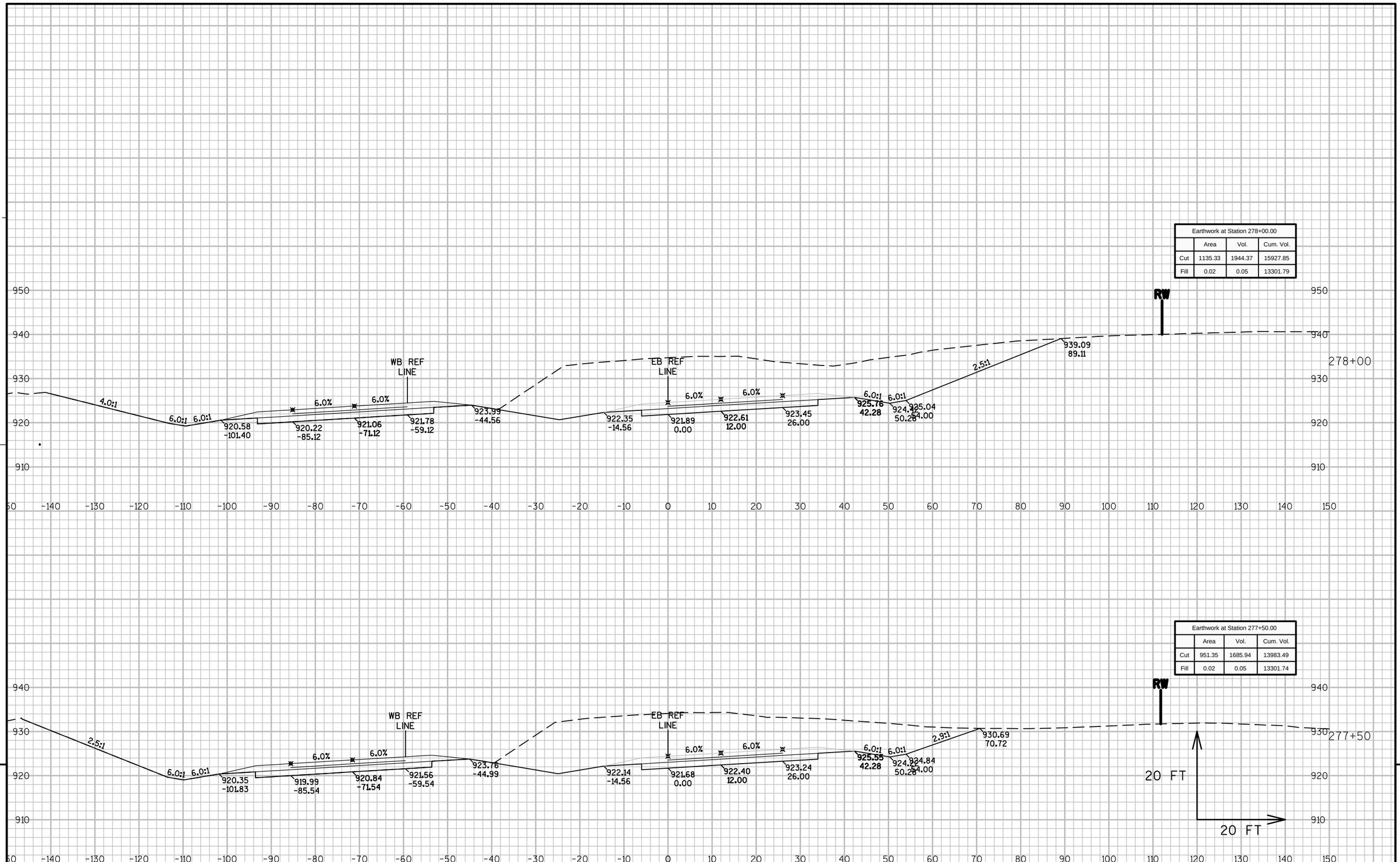


9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1051	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-14

PLOT DATE : 9/26/2014 12:01 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

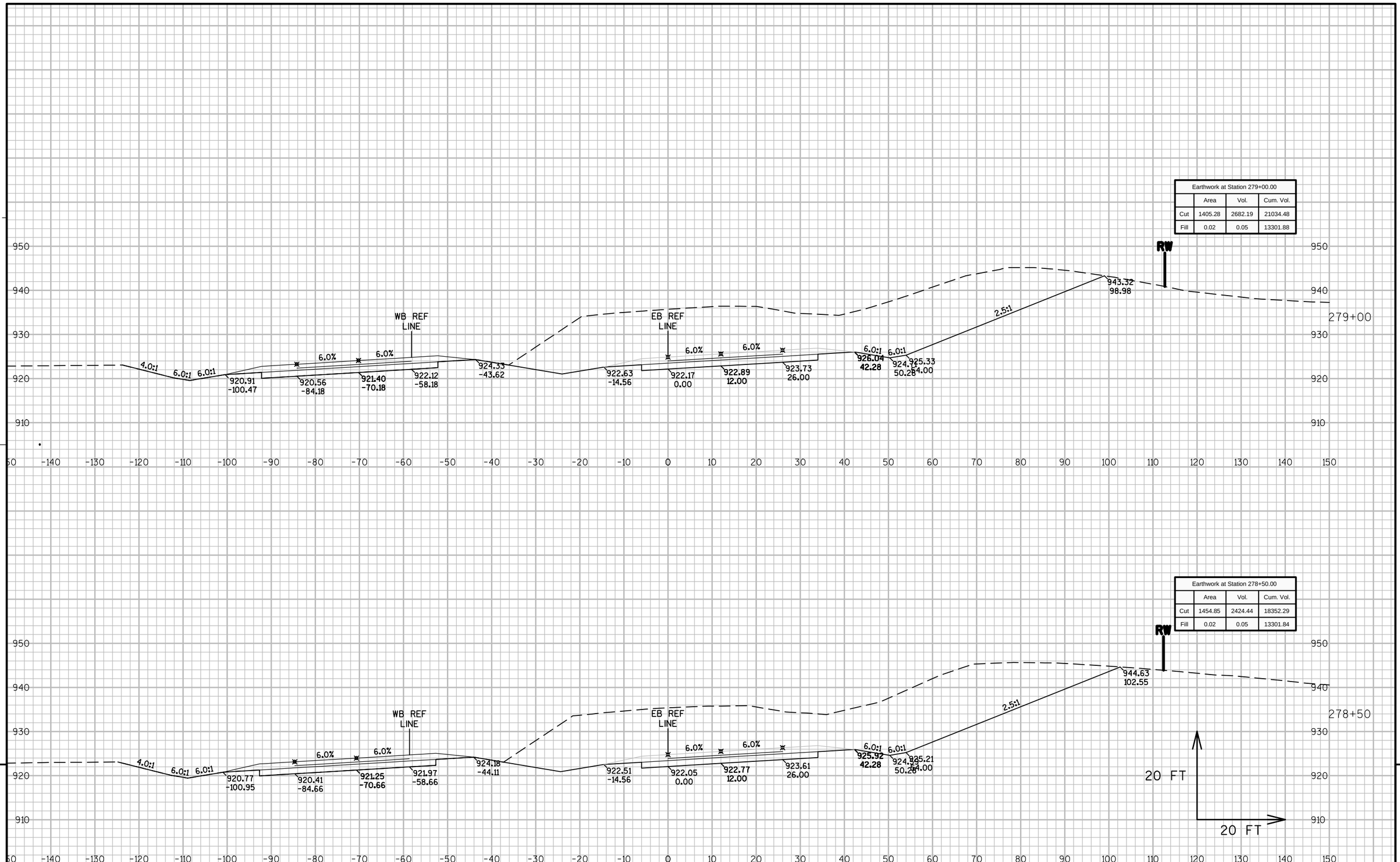


9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1052 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-15

PLOT DATE : 9/26/2014 12:01 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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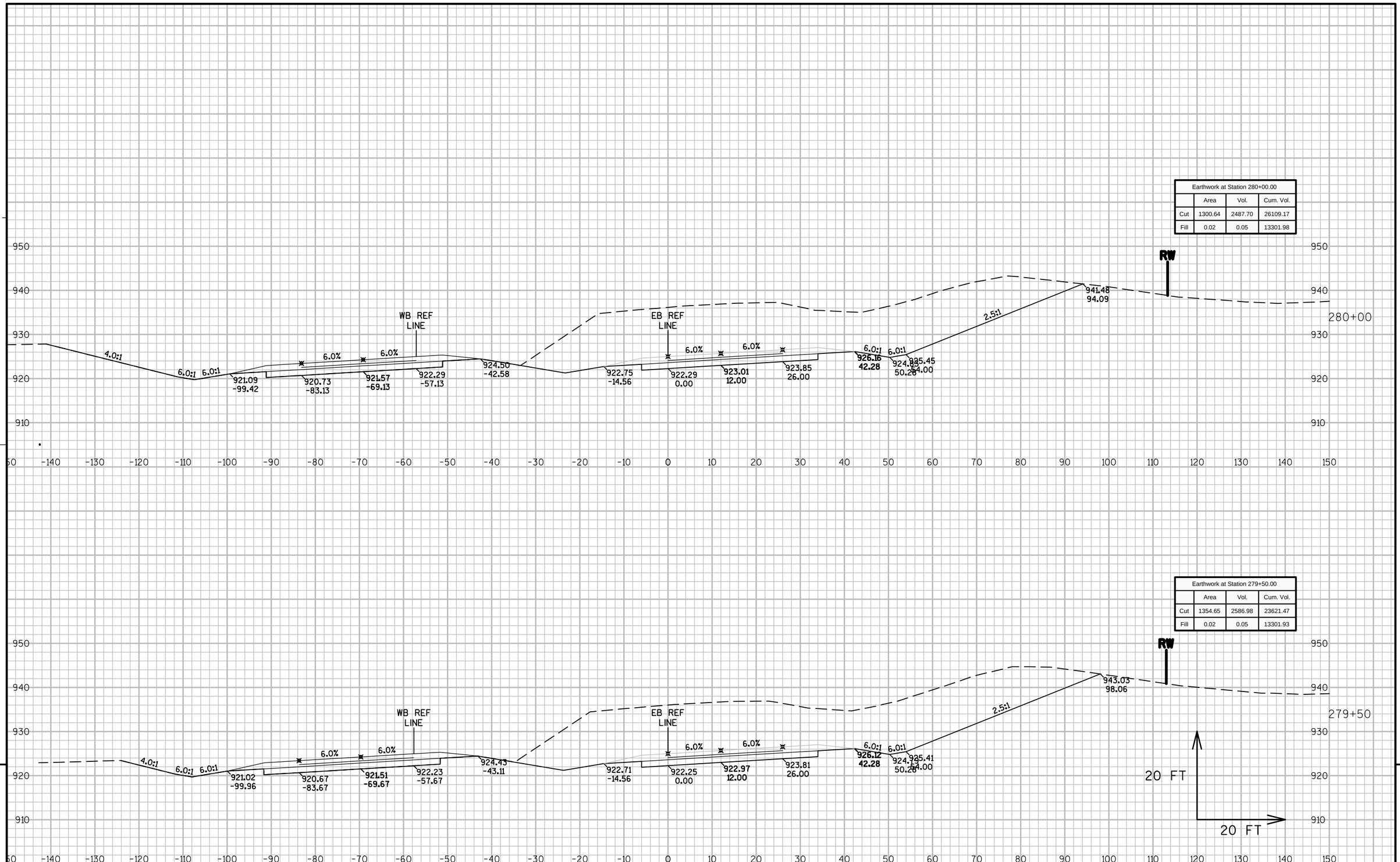
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1053	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-16
PLOT DATE : 9/26/2014 12:02 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



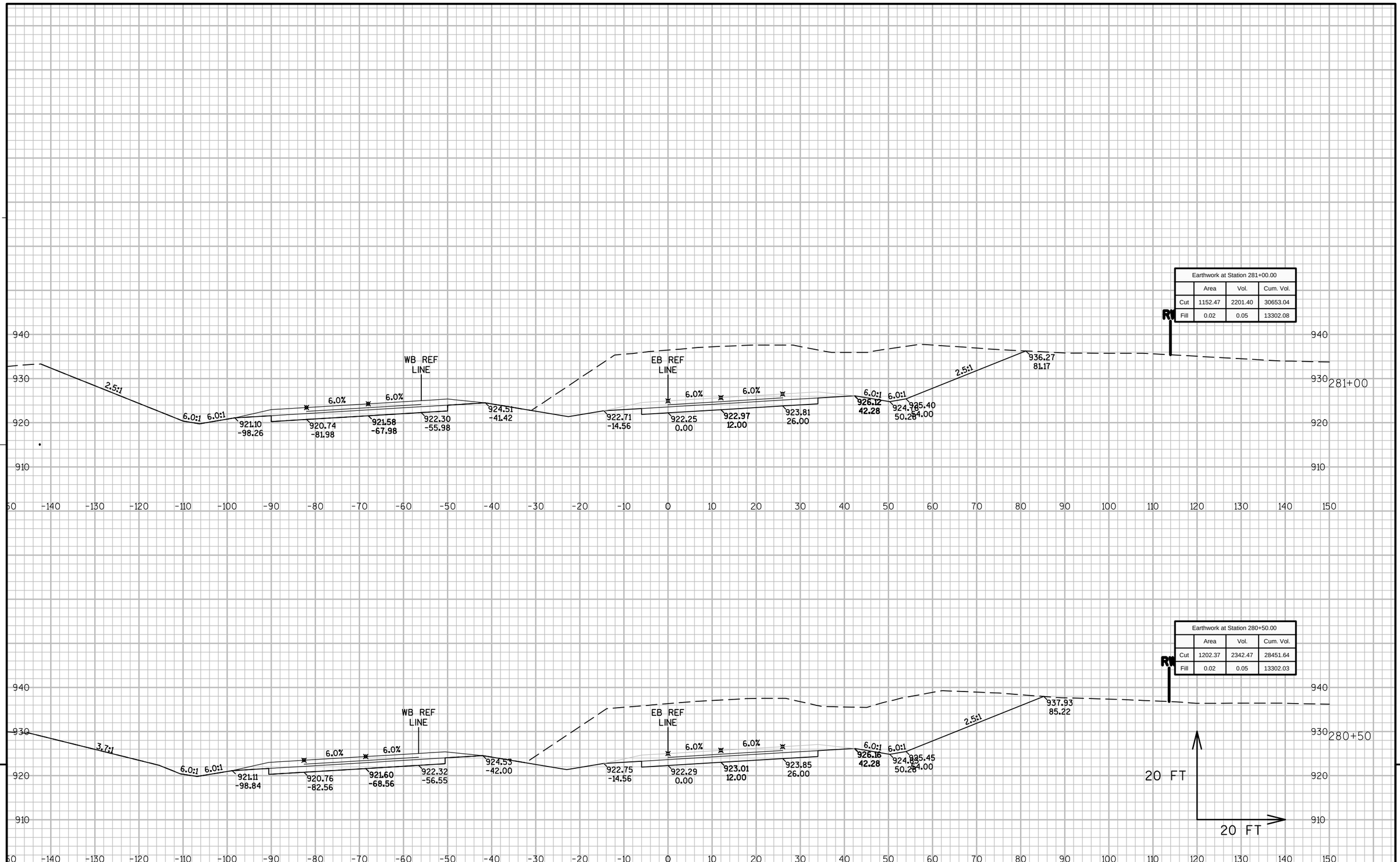
9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1054 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-17

PLOT DATE : 9/26/2014 12:02 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



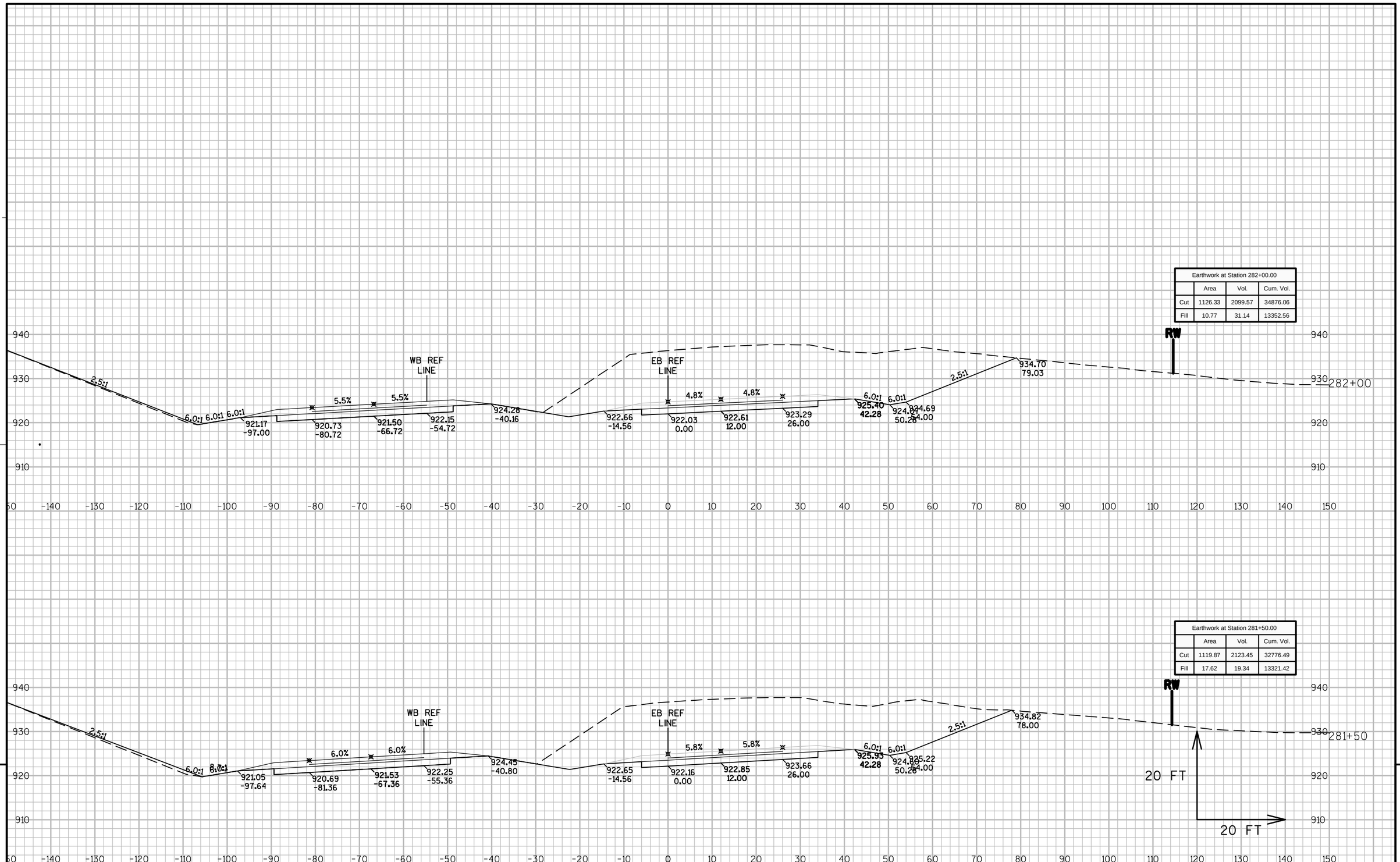
9

9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1055	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-18

PLOT DATE : 9/26/2014 12:02 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

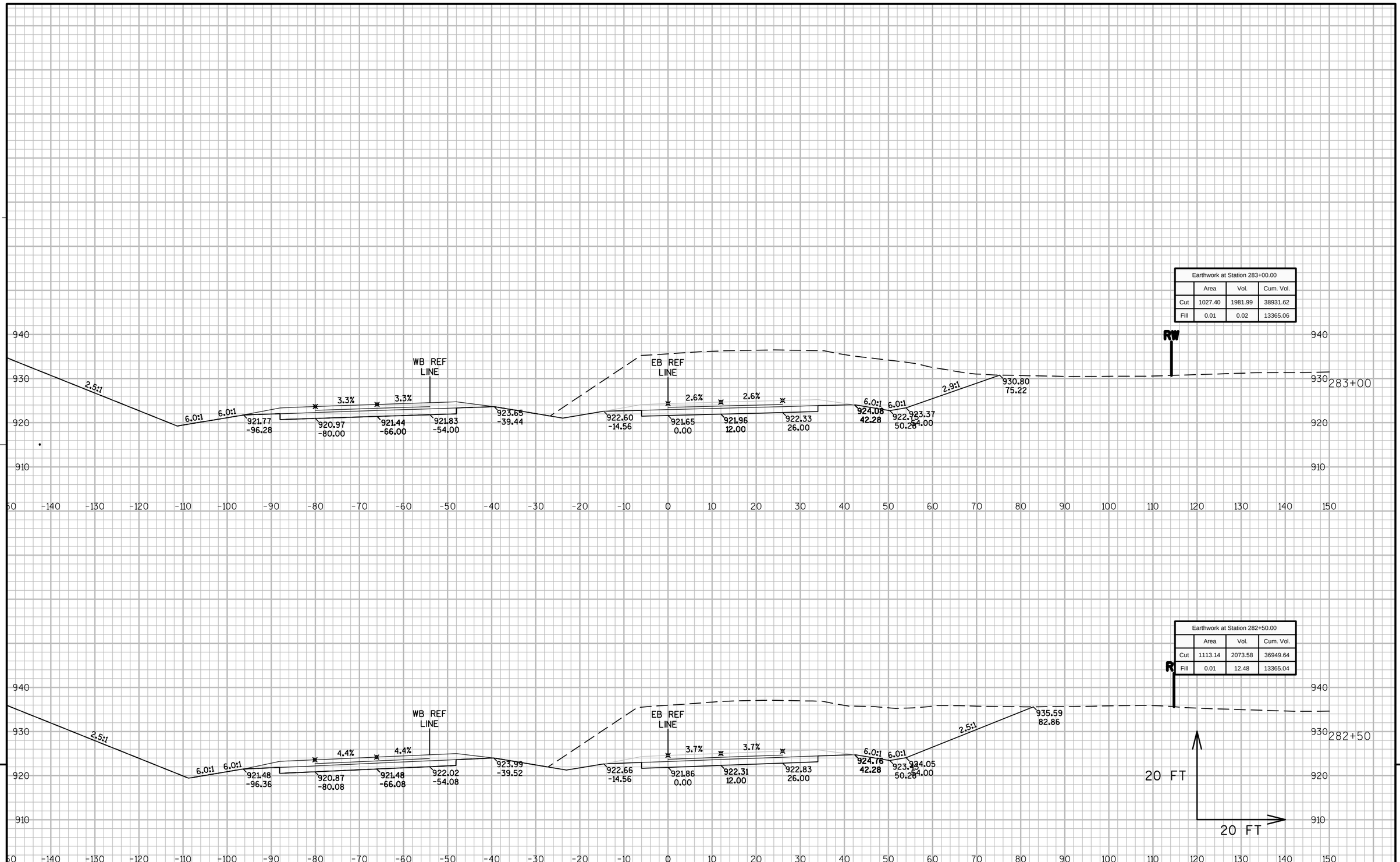


9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1056	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-19

PLOT DATE : 9/26/2014 12:03 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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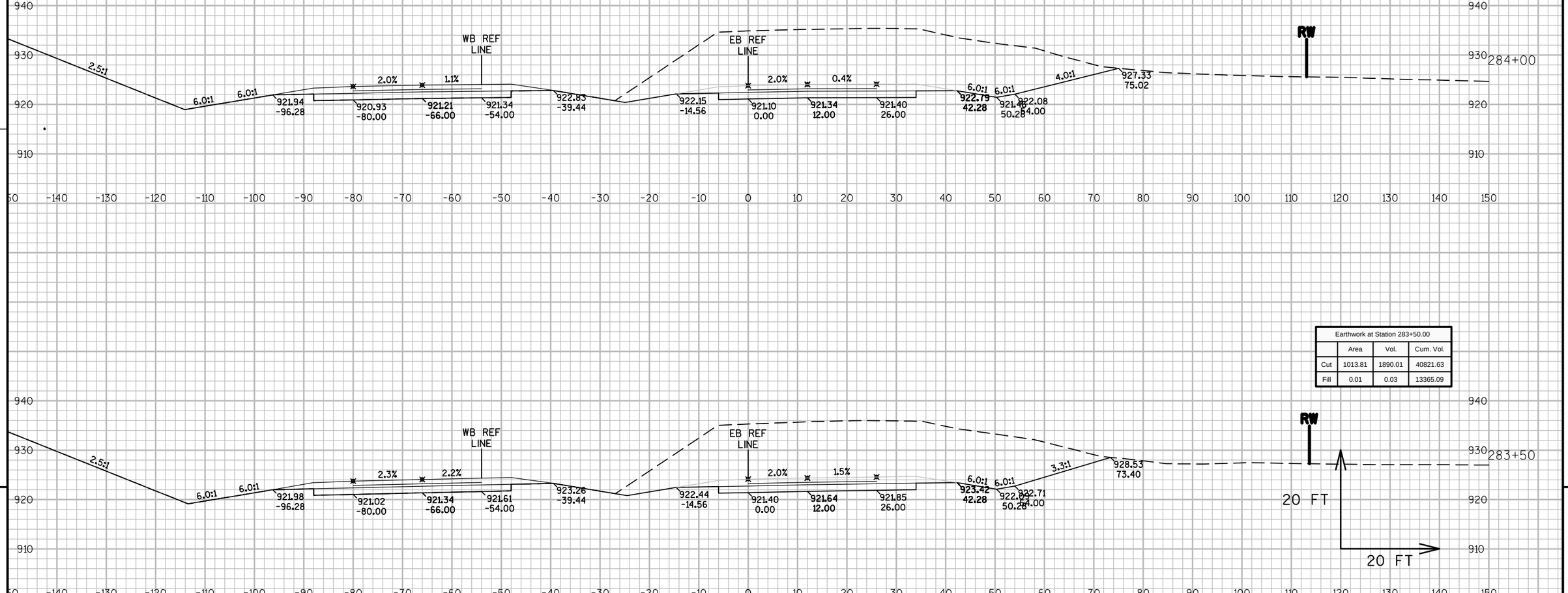
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1057	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-20

PLOT DATE : 9/26/2014 12:03 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

Earthwork at Station 284+00.00			
	Area	Vol.	Cum. Vol.
Cut	1009.31	1873.26	42694.89
Fill	0.01	0.02	13365.12



Earthwork at Station 283+50.00			
	Area	Vol.	Cum. Vol.
Cut	1013.81	1890.01	40821.63
Fill	0.01	0.03	13365.09

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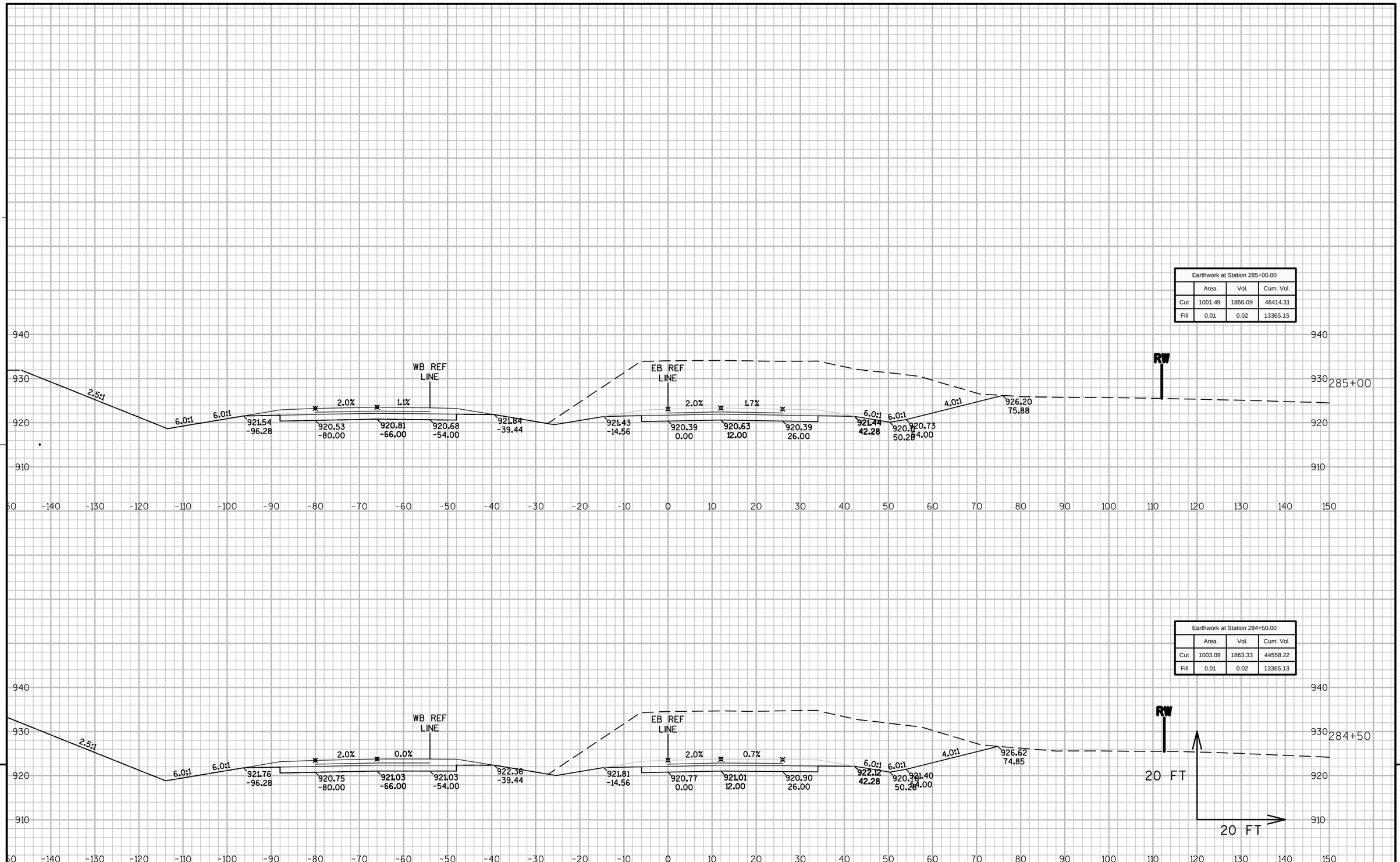
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1058	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-21

PLOT DATE : 9/26/2014 12:03 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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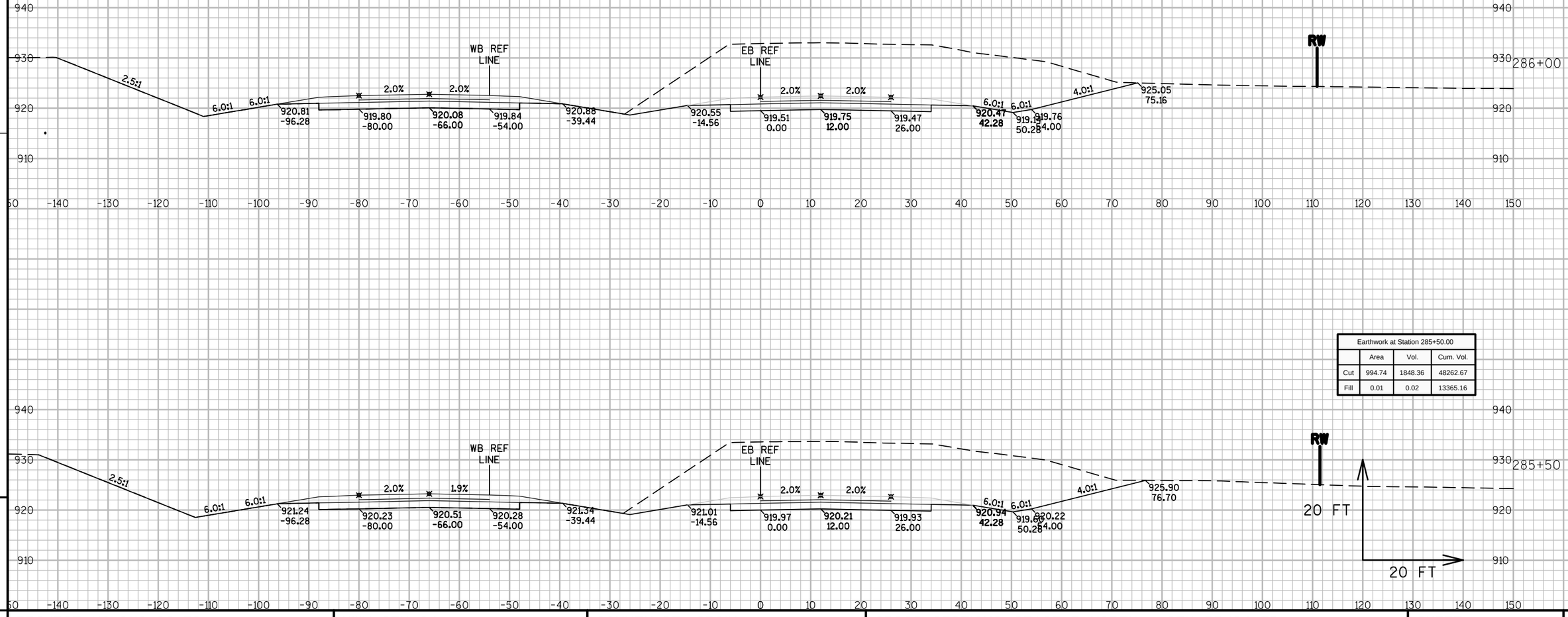
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1059	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-22

PLOT DATE : 9/26/2014 12:03 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

Earthwork at Station 286+00.00			
	Area	Vol.	Cum. Vol.
Cut	975.17	1823.99	50086.66
Fill	0.01	0.02	13365.18



Earthwork at Station 285+50.00			
	Area	Vol.	Cum. Vol.
Cut	994.74	1848.36	48262.67
Fill	0.01	0.02	13365.16

9

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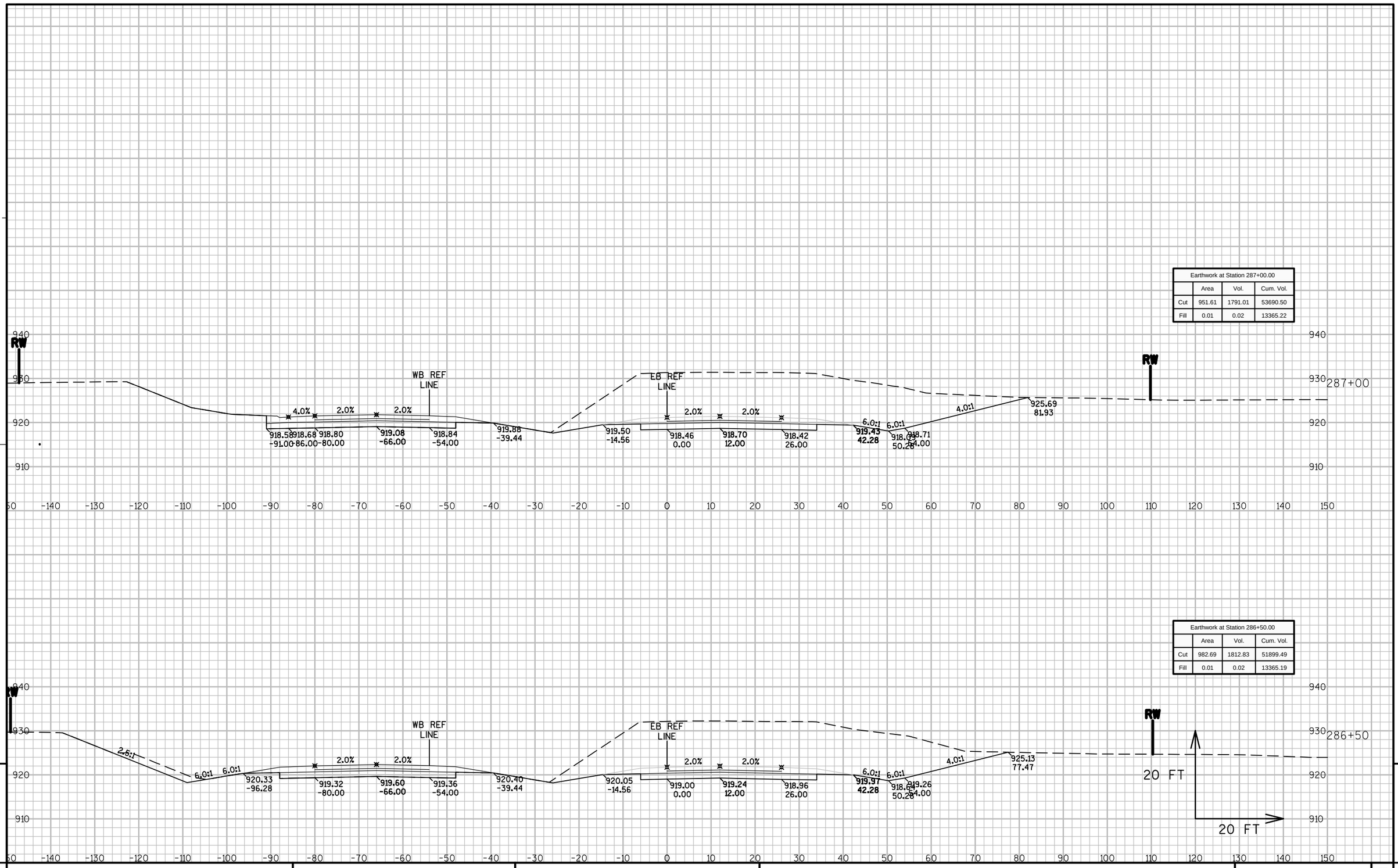
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1060	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-23

PLOT DATE : 9/26/2014 12:04 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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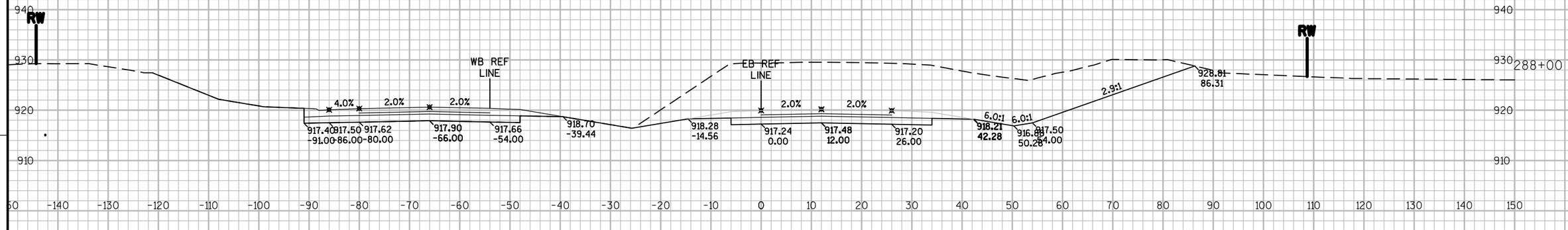
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1061	E

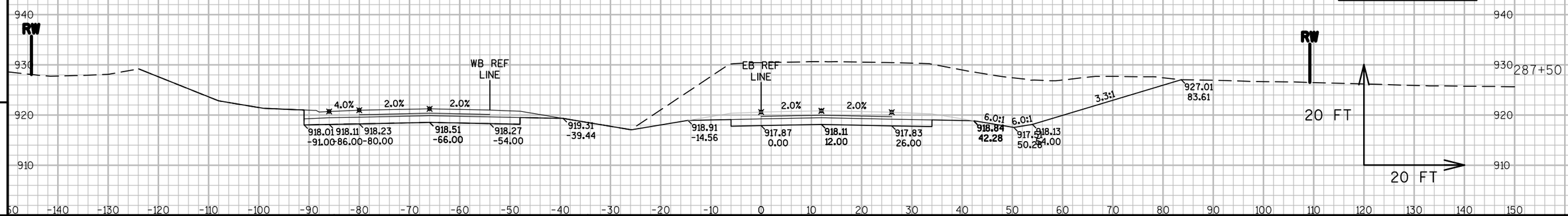
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-24

PLOT DATE : 9/26/2014 12:04 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

Earthwork at Station 288+00.00			
	Area	Vol.	Cum. Vol.
Cut	961.49	1768.31	57217.97
Fill	0.01	0.03	13365.27



Earthwork at Station 287+50.00			
	Area	Vol.	Cum. Vol.
Cut	948.28	1759.16	55449.66
Fill	0.01	0.03	13365.24



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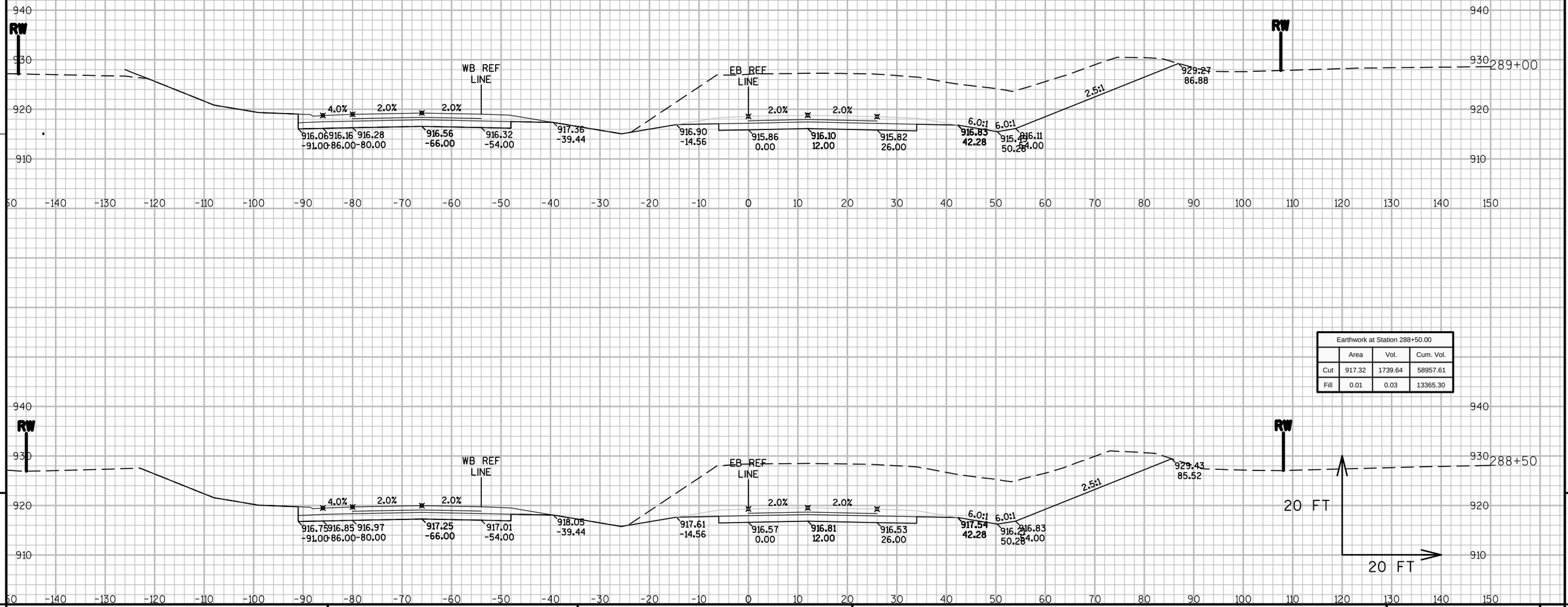
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1062	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-25
PLOT DATE : 9/26/2014 12:04 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

Earthwork at Station 289+00.00			
	Area	Vol.	Cum. Vol.
Cut	885.83	1669.59	60627.20
Fill	3.09	3.59	13368.89



Earthwork at Station 288+50.00			
	Area	Vol.	Cum. Vol.
Cut	917.32	1739.64	58957.61
Fill	0.01	0.03	13365.30

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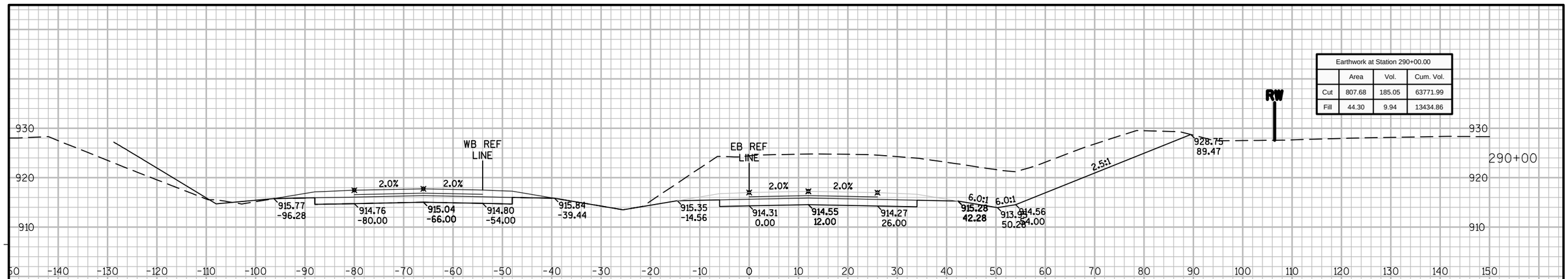
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1063	E

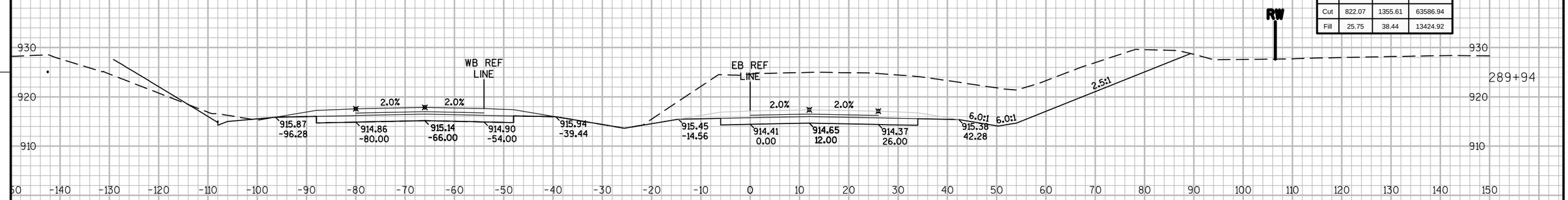
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-26

PLOT DATE : 9/26/2014 12:04 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

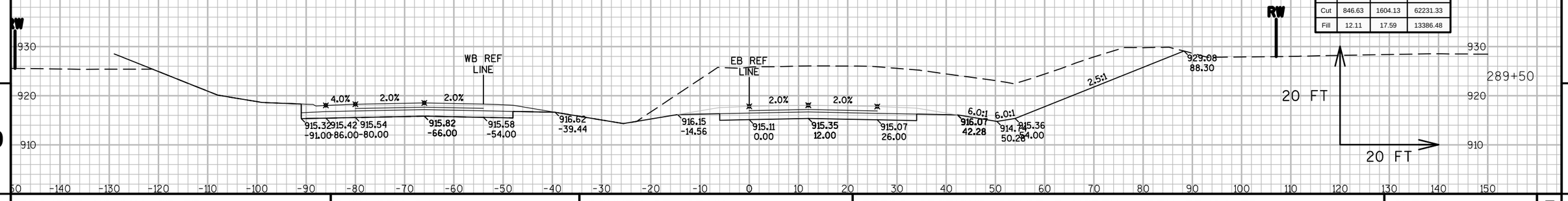
WISDOT/CADDS SHEET 49



Earthwork at Station 290+00.00			
	Area	Vol.	Cum. Vol.
Cut	807.68	185.05	63771.99
Fill	44.30	9.94	13434.86



Earthwork at Station 289+93.87			
	Area	Vol.	Cum. Vol.
Cut	822.07	1355.61	63586.94
Fill	25.75	38.44	13424.92



Earthwork at Station 289+50.00			
	Area	Vol.	Cum. Vol.
Cut	846.63	1604.13	62231.33
Fill	12.11	17.59	13386.48

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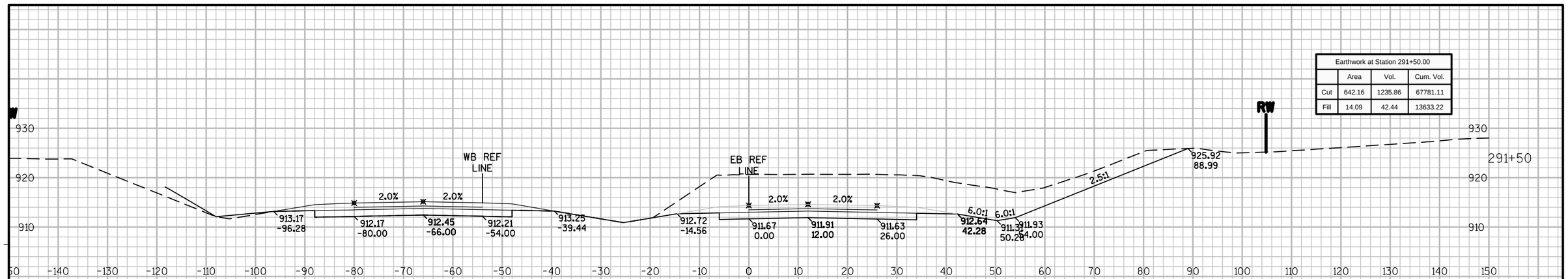
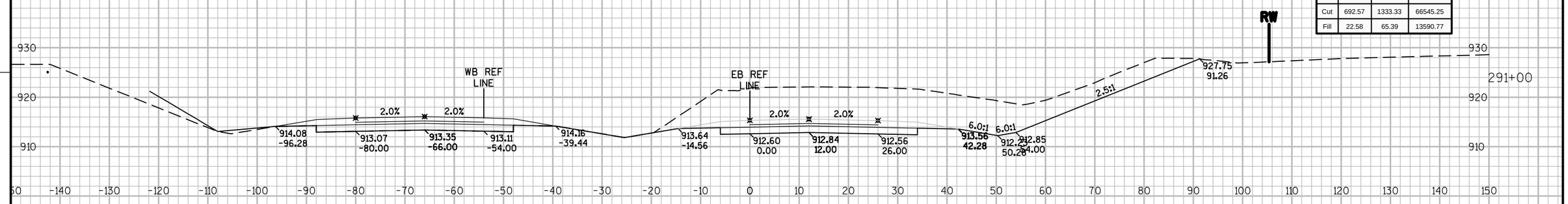
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1064	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-27

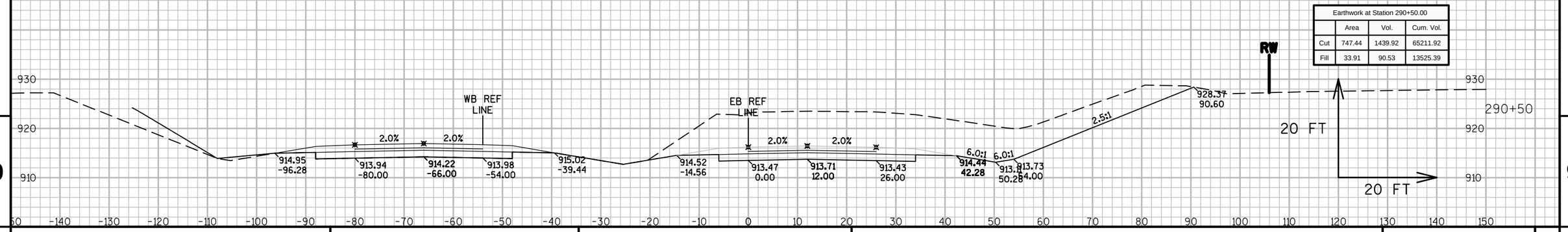
PLOT DATE : 9/26/2014 12:05 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 291+50.00			
	Area	Vol.	Cum. Vol.
Cut	642.16	1235.86	67781.11
Fill	14.09	42.44	13633.22



Earthwork at Station 291+00.00			
	Area	Vol.	Cum. Vol.
Cut	692.57	1333.33	66545.25
Fill	22.58	65.39	13590.77



Earthwork at Station 290+50.00			
	Area	Vol.	Cum. Vol.
Cut	747.44	1439.92	65211.92
Fill	33.91	90.53	13525.39

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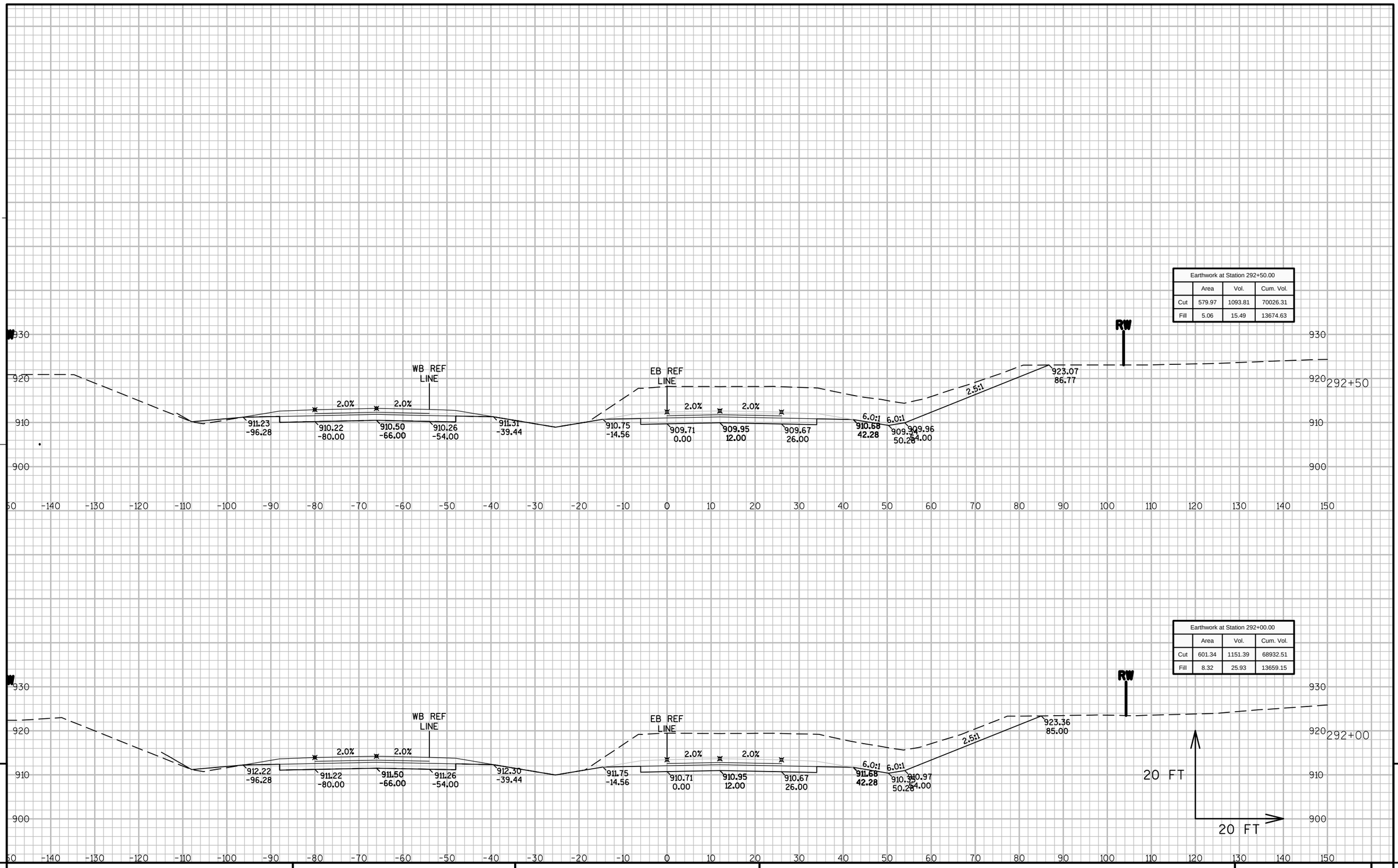
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1065	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-28
PLOT DATE : 9/26/2014 12:05 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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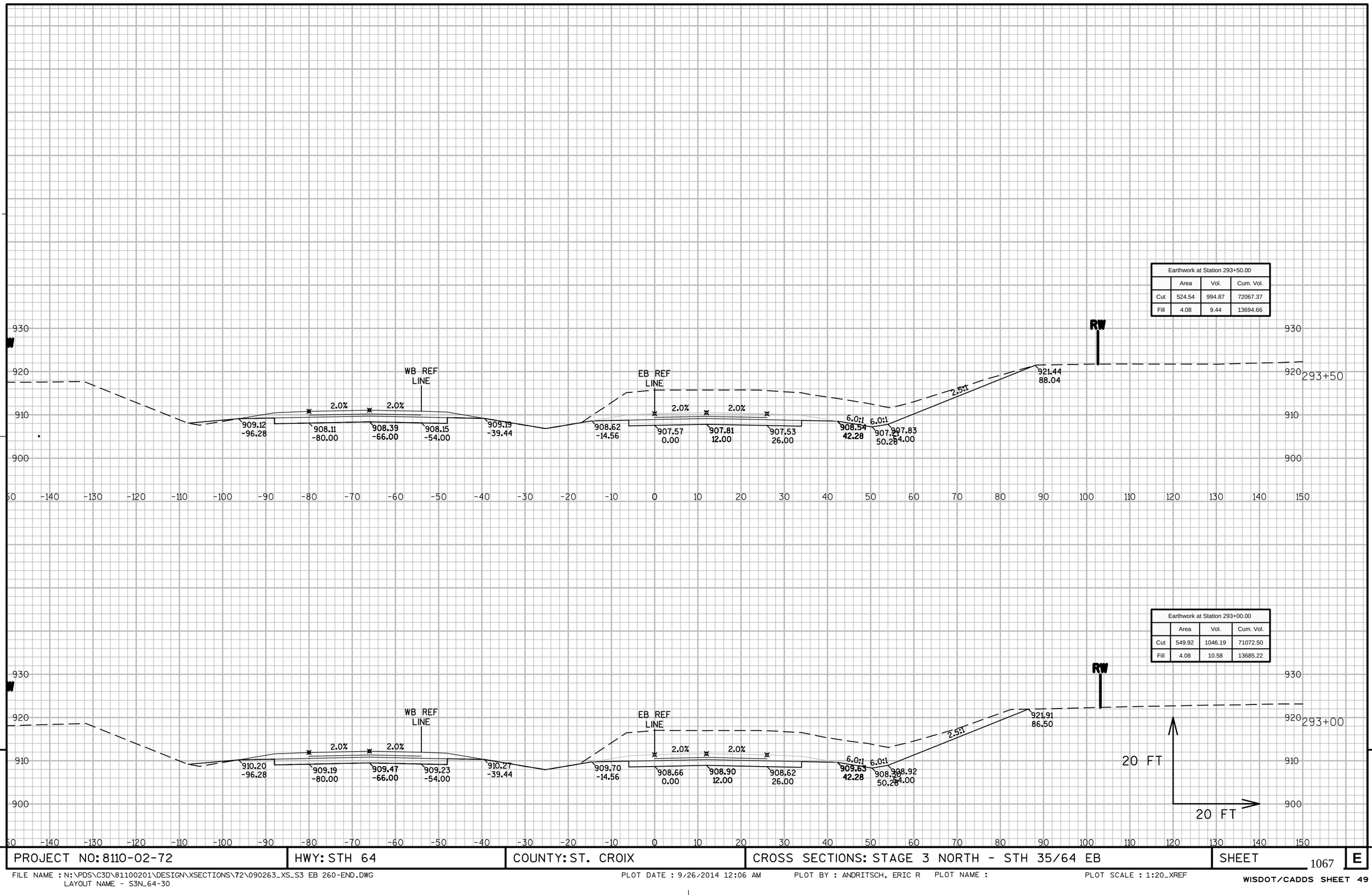
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1066	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-29

PLOT DATE : 9/26/2014 12:05 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



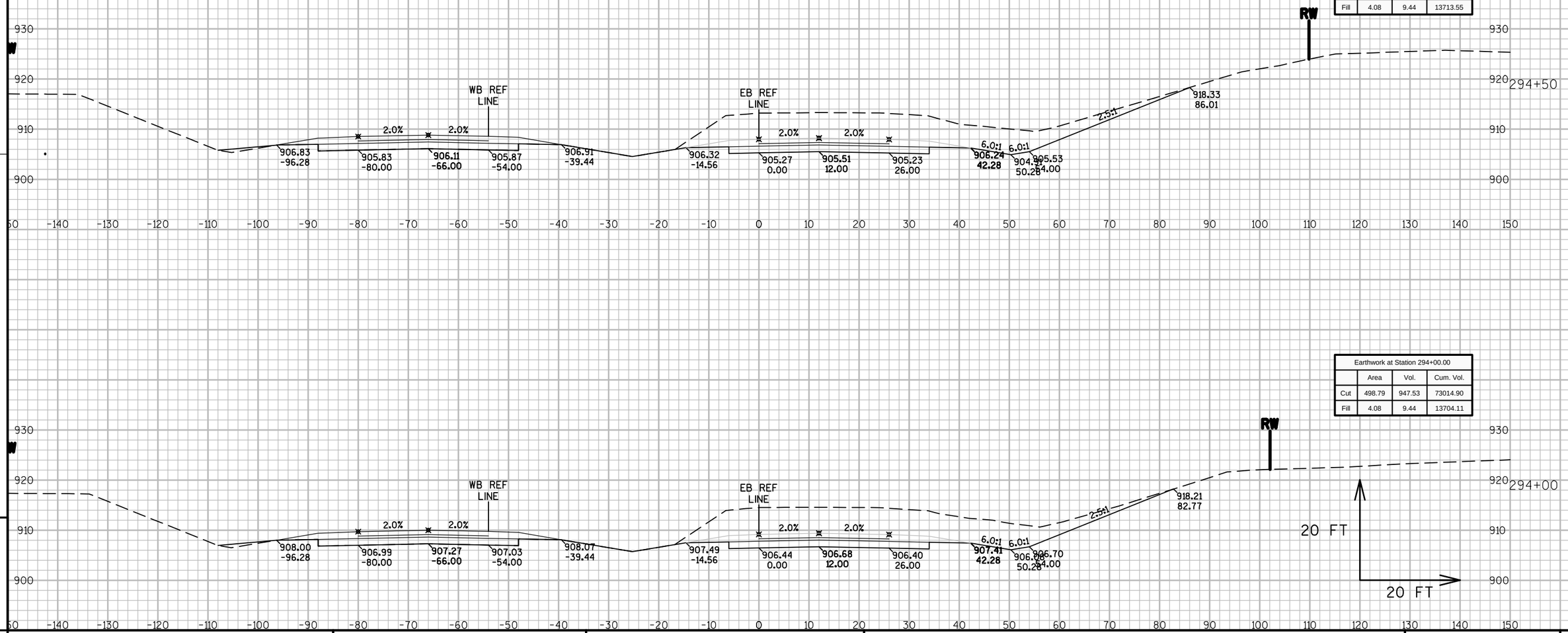
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1067	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-30

PLOT DATE : 9/26/2014 12:06 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

Earthwork at Station 294+50.00			
	Area	Vol.	Cum. Vol.
Cut	501.35	926.06	73940.96
Fill	4.08	9.44	13713.55



Earthwork at Station 294+00.00			
	Area	Vol.	Cum. Vol.
Cut	498.79	947.53	73014.90
Fill	4.08	9.44	13704.11

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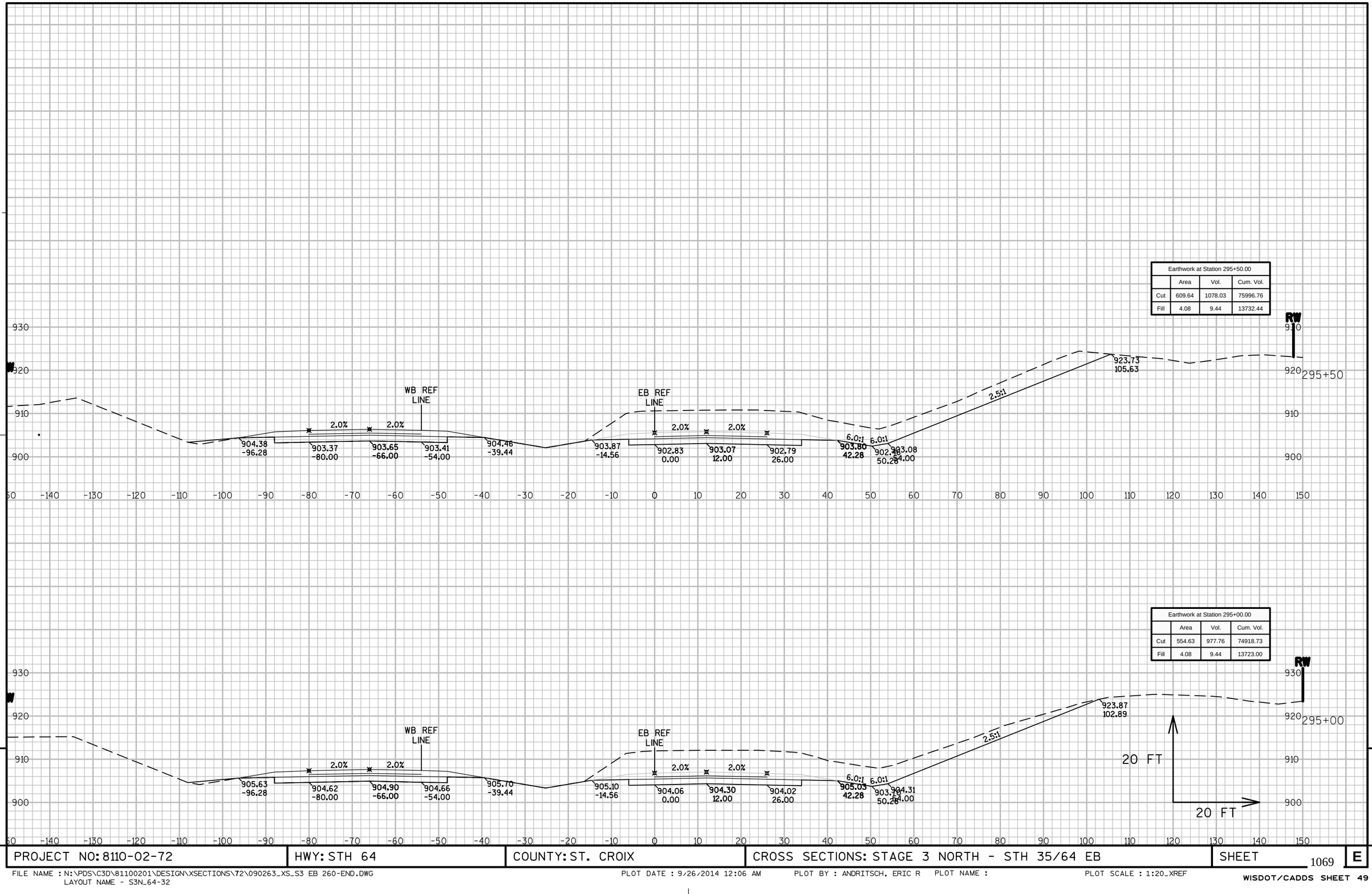
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1068	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-31

PLOT DATE : 9/26/2014 12:06 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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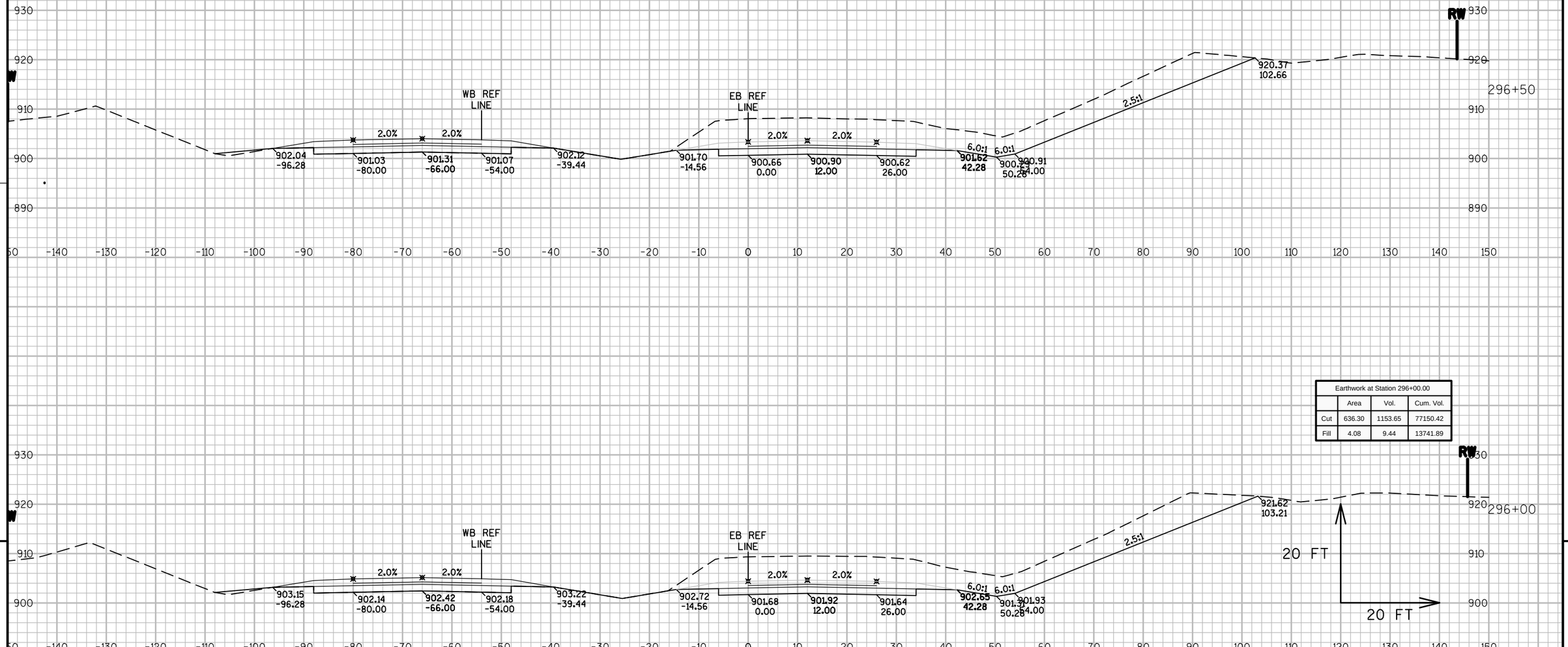
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1069	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-32

PLOT DATE : 9/26/2014 12:06 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

Earthwork at Station 296+50.00			
	Area	Vol.	Cum. Vol.
Cut	627.36	1170.06	78320.48
Fill	4.08	9.44	13751.33



Earthwork at Station 296+00.00			
	Area	Vol.	Cum. Vol.
Cut	636.30	1153.65	77150.42
Fill	4.08	9.44	13741.89

9

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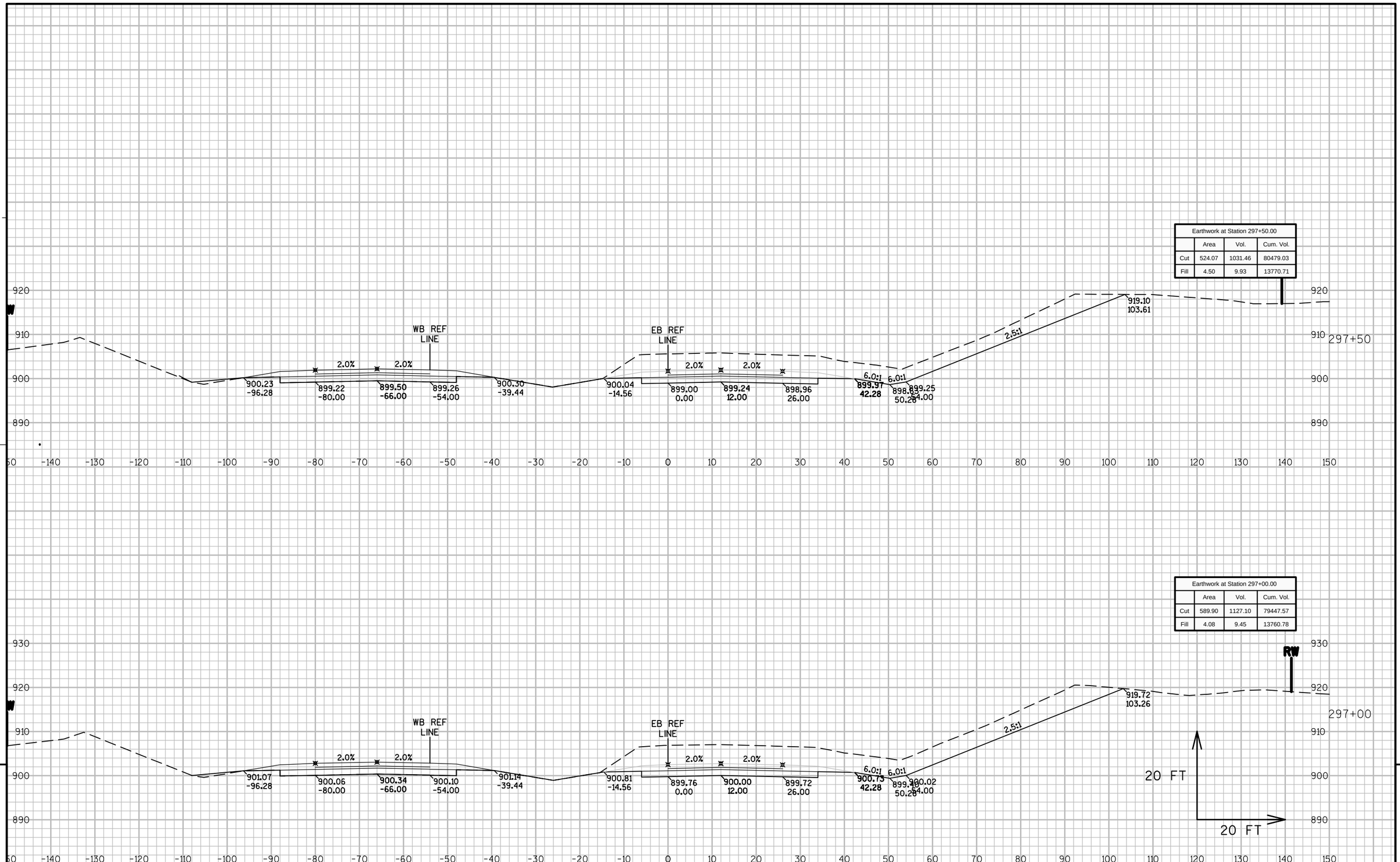
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1070	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-33

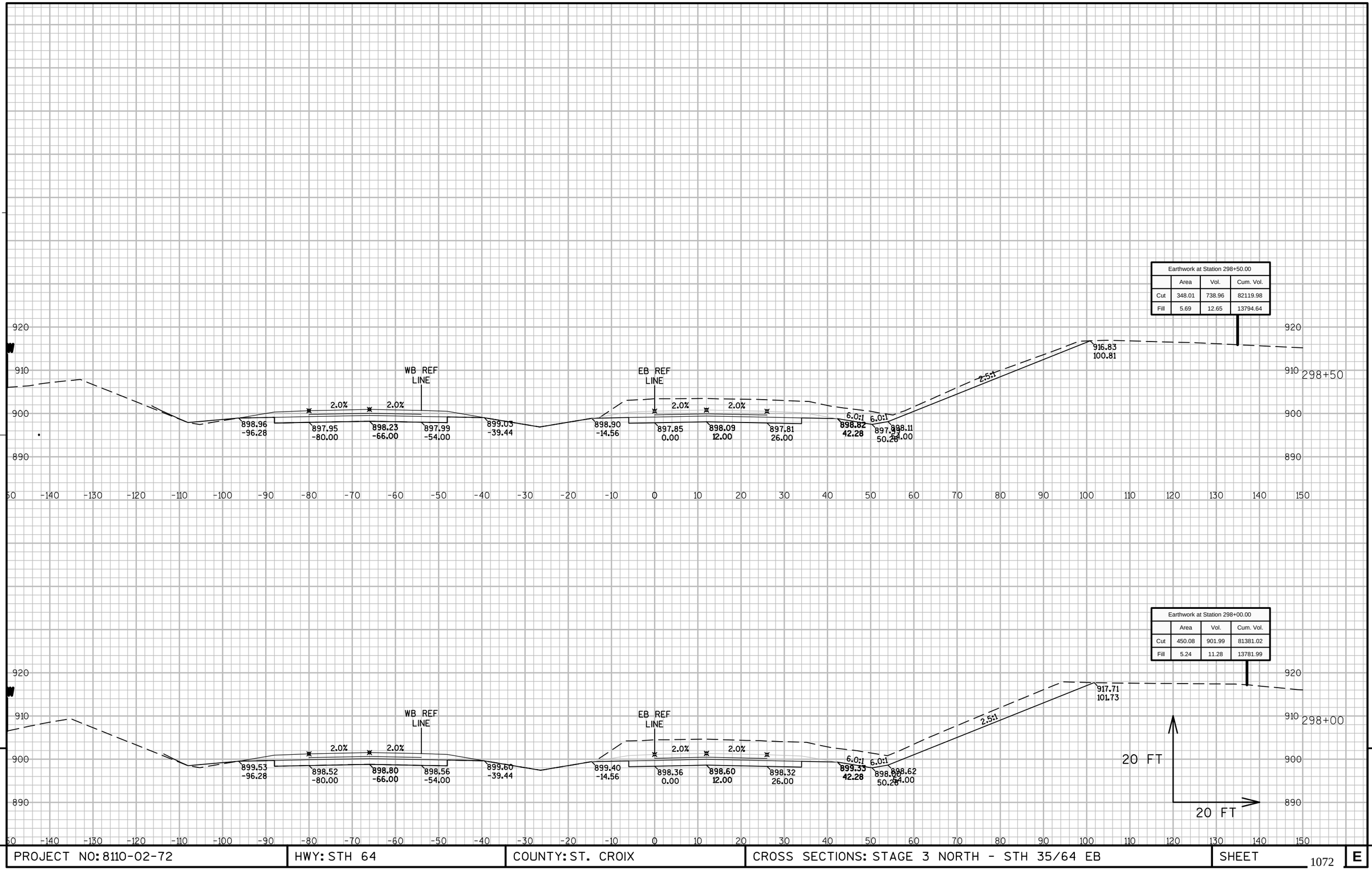
PLOT DATE : 9/26/2014 12:06 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1071	E



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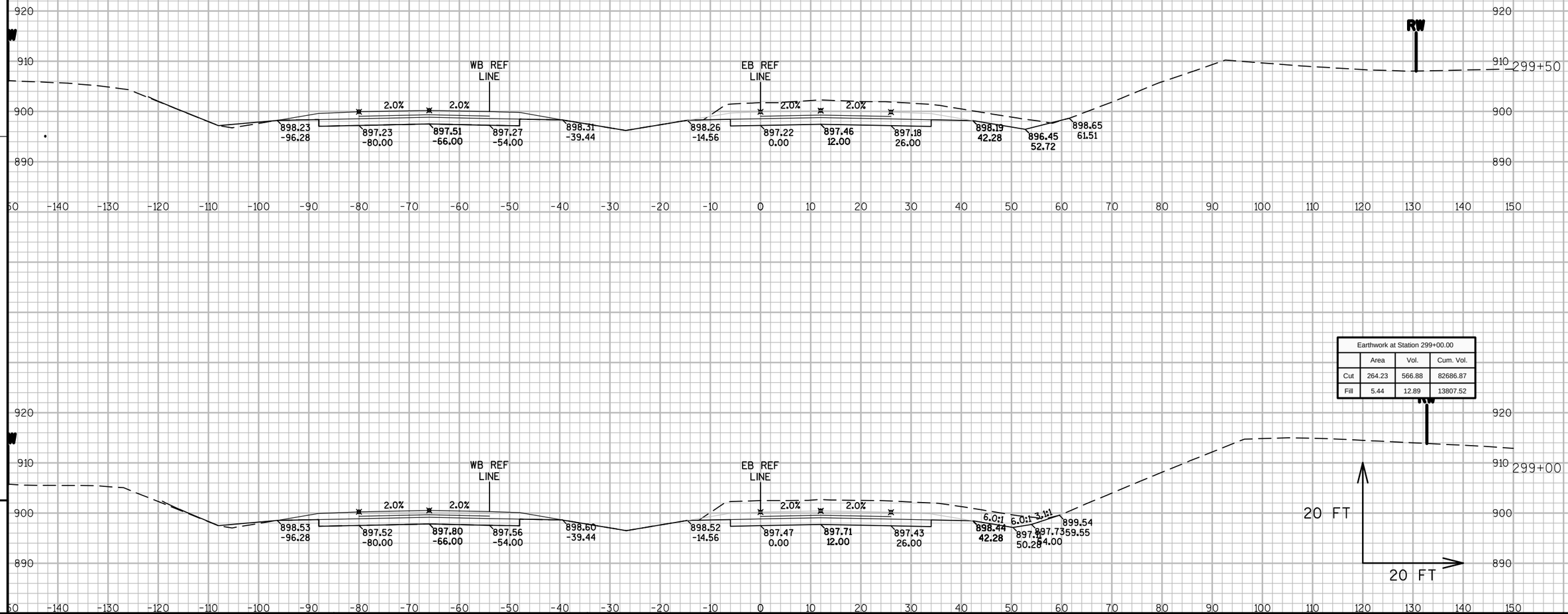
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1072	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-35

PLOT DATE : 9/26/2014 12:07 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

Earthwork at Station 299+50.00			
	Area	Vol.	Cum. Vol.
Cut	240.84	467.66	83154.53
Fill	4.68	11.72	13819.24



Earthwork at Station 299+00.00			
	Area	Vol.	Cum. Vol.
Cut	264.23	566.88	82686.87
Fill	5.44	12.89	13807.52

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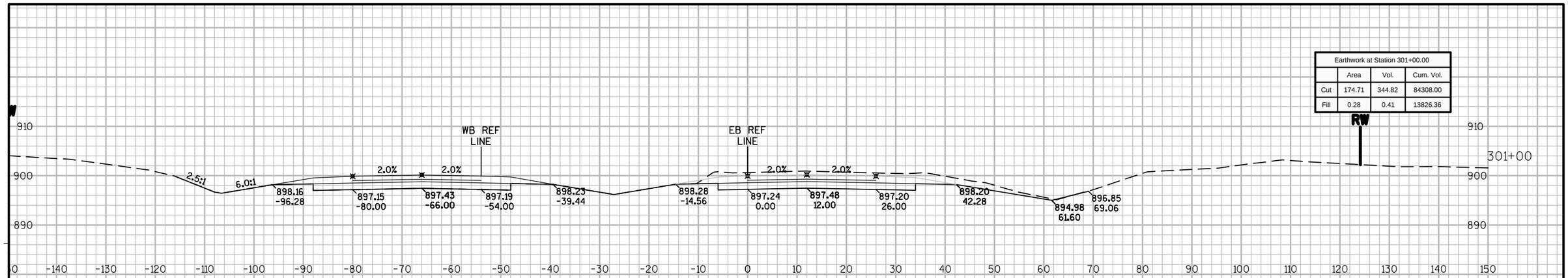
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1073	E

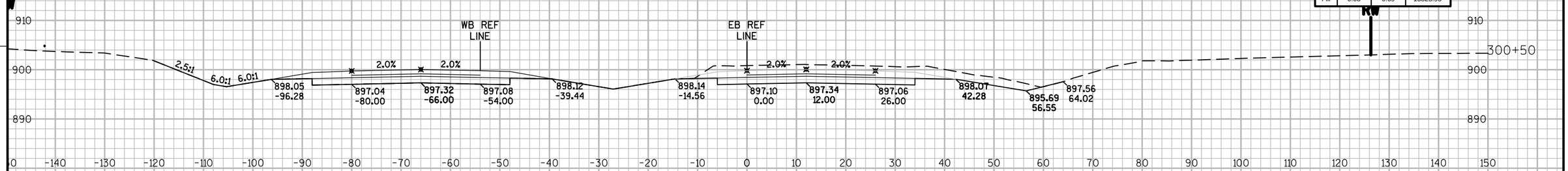
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-36

PLOT DATE : 9/26/2014 12:07 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

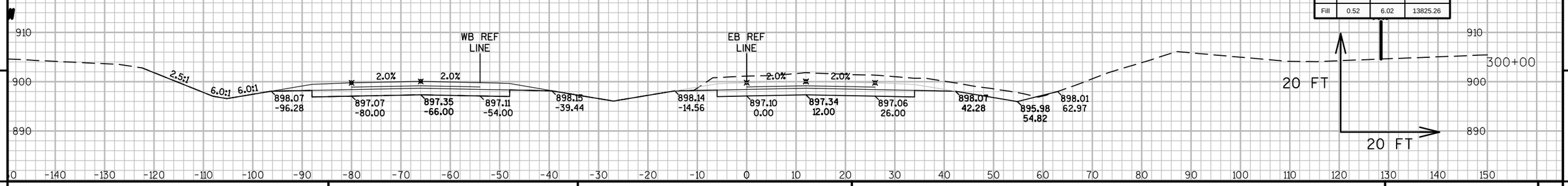
WISDOT/CADDS SHEET 49



Earthwork at Station 301+00.00			
	Area	Vol.	Cum. Vol.
Cut	174.71	344.82	84308.00
Fill	0.28	0.41	13826.36



Earthwork at Station 300+50.00			
	Area	Vol.	Cum. Vol.
Cut	197.69	384.35	83963.18
Fill	0.08	0.69	13825.95



Earthwork at Station 300+00.00			
	Area	Vol.	Cum. Vol.
Cut	217.41	424.30	83578.83
Fill	0.52	6.02	13825.26

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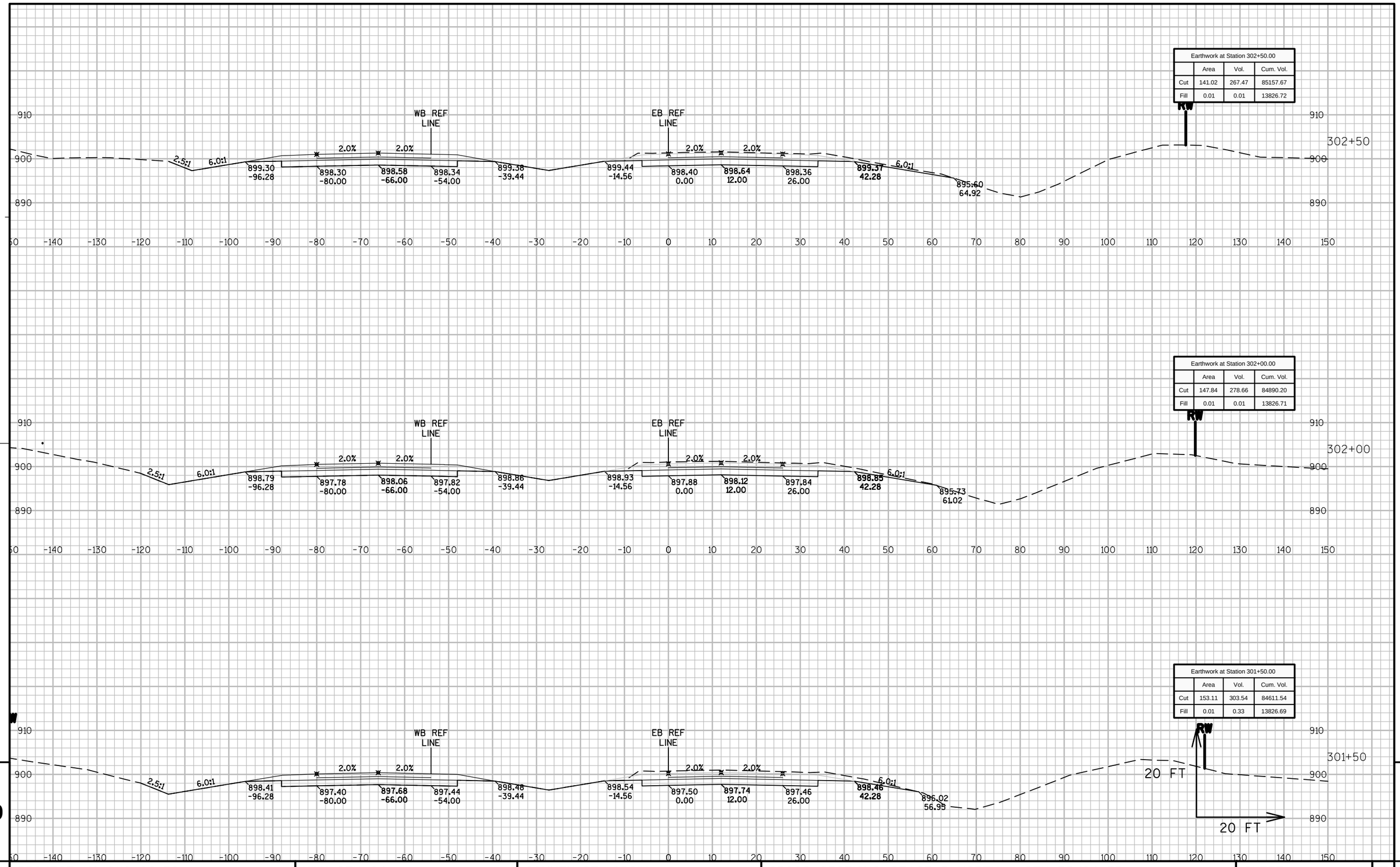
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1074	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-37
PLOT DATE : 9/26/2014 12:08 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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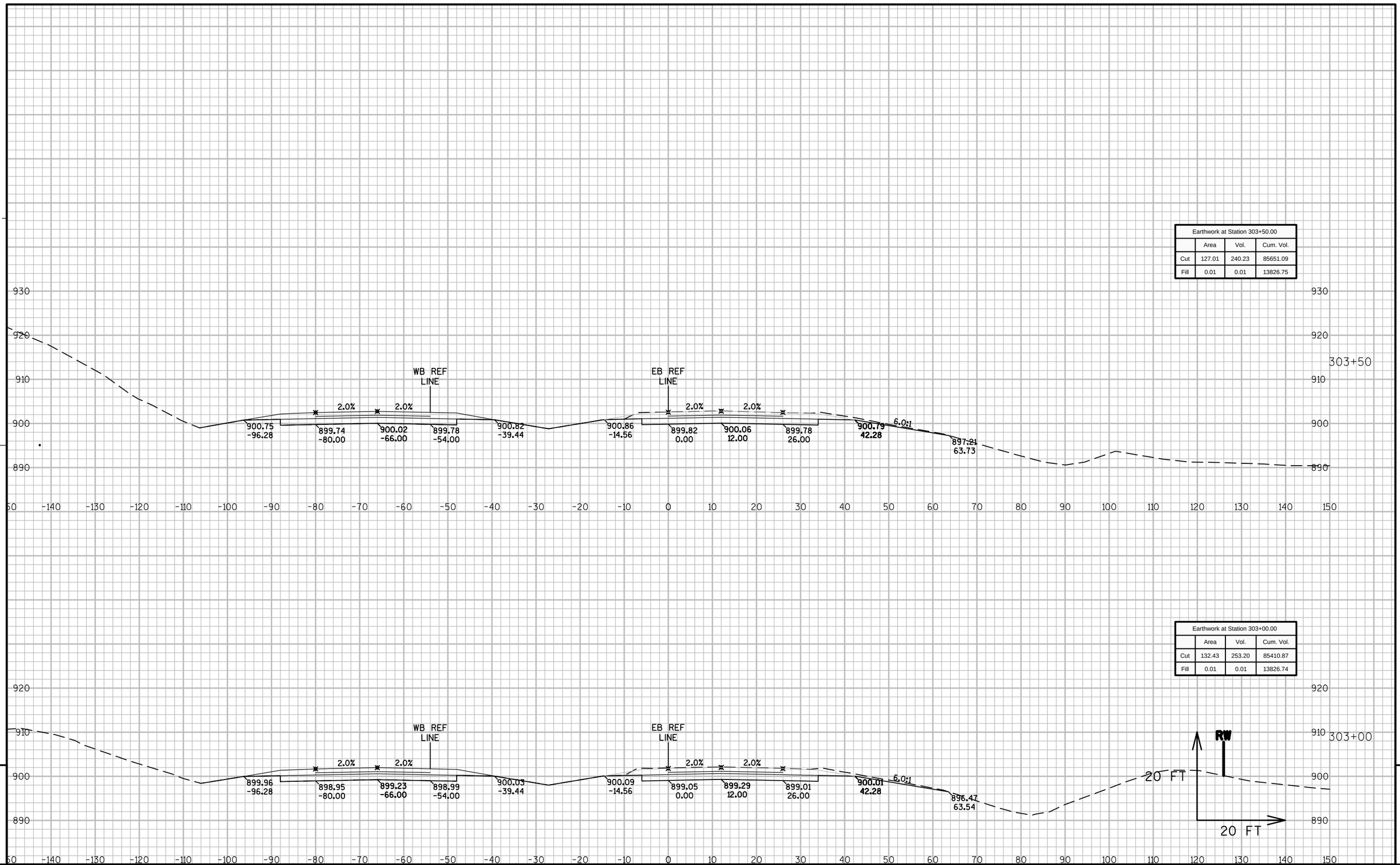
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1075	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-38

PLOT DATE : 9/26/2014 12:08 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

Earthwork at Station 303+50.00			
	Area	Vol.	Cum. Vol.
Cut	127.01	240.23	85651.09
Fill	0.01	0.01	13826.75



Earthwork at Station 303+00.00			
	Area	Vol.	Cum. Vol.
Cut	132.43	253.20	85410.87
Fill	0.01	0.01	13826.74

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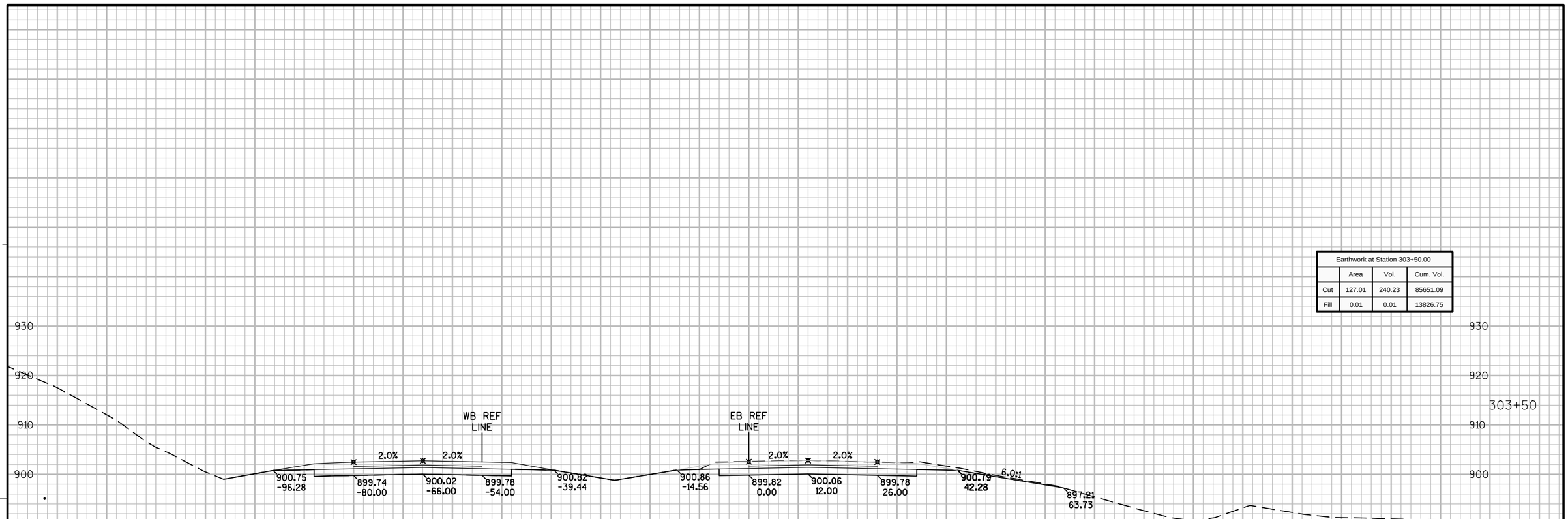
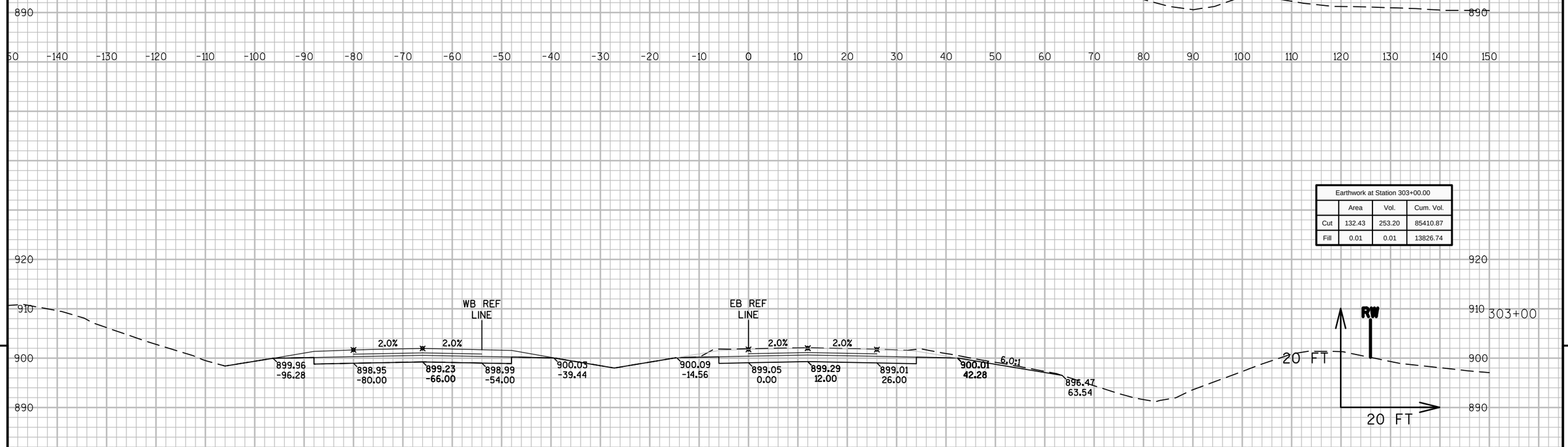
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1076	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-39
PLOT DATE : 9/26/2014 12:08 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49

Earthwork at Station 303+50.00			
	Area	Vol.	Cum. Vol.
Cut	127.01	240.23	85651.09
Fill	0.01	0.01	13826.75



Earthwork at Station 303+00.00			
	Area	Vol.	Cum. Vol.
Cut	132.43	253.20	85410.87
Fill	0.01	0.01	13826.74



9

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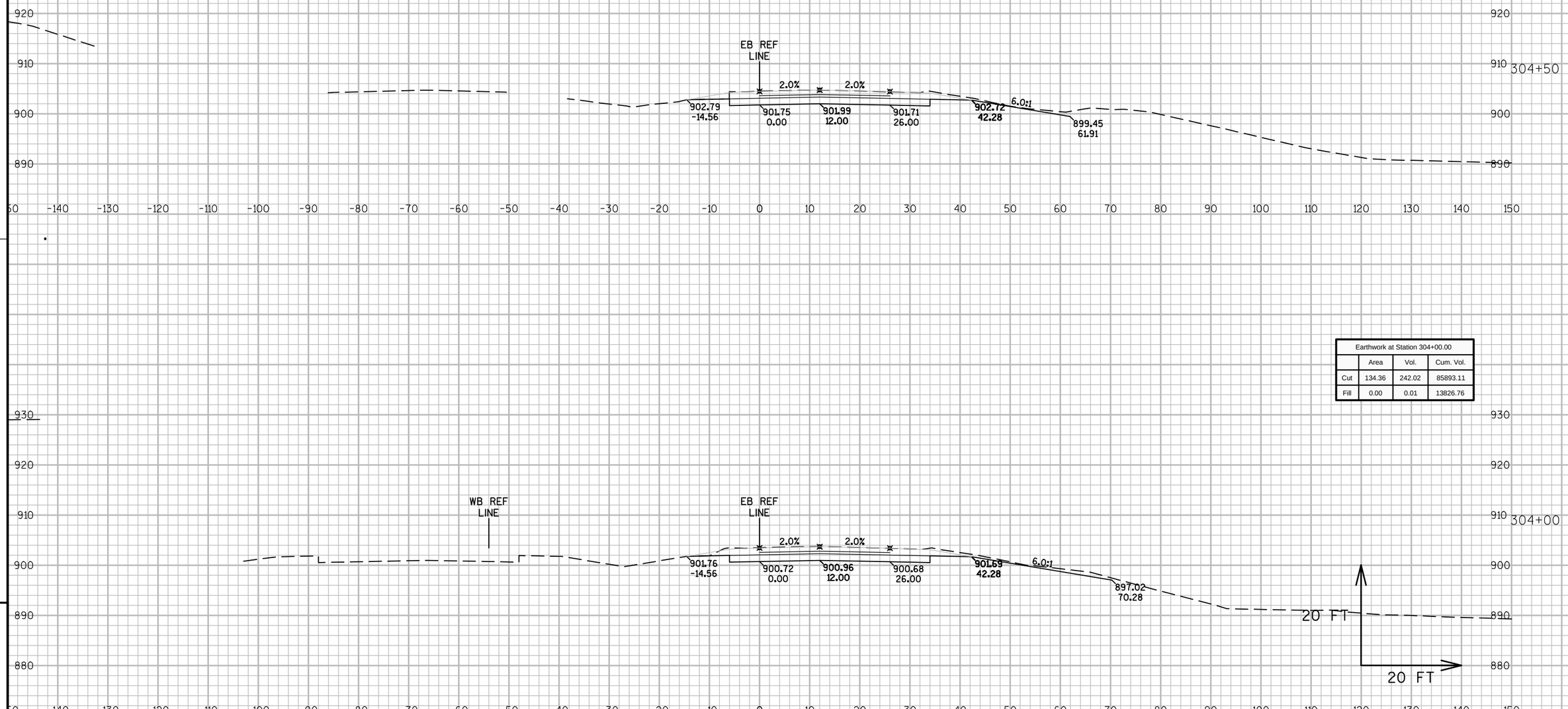
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1077	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-40

PLOT DATE : 9/26/2014 12:08 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

Earthwork at Station 304+50.00			
	Area	Vol.	Cum. Vol.
Cut	122.44	237.78	86130.89
Fill	0.00	0.00	13826.76



Earthwork at Station 304+00.00			
	Area	Vol.	Cum. Vol.
Cut	134.36	242.02	85893.11
Fill	0.00	0.01	13826.76

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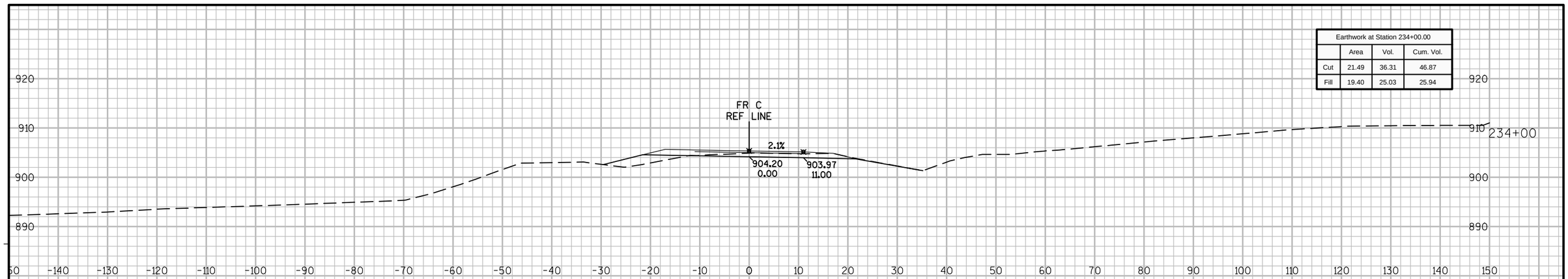
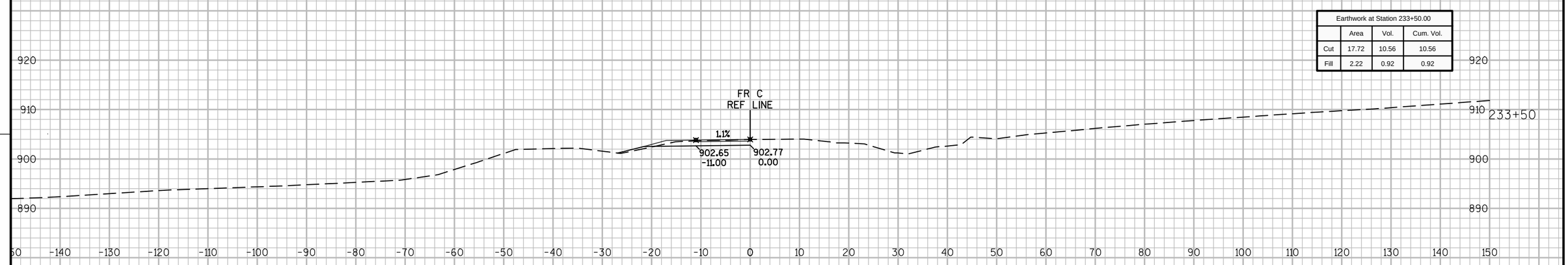
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: STAGE 3 NORTH - STH 35/64 EB	SHEET 1078	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S3 EB 260-END.DWG
LAYOUT NAME - S3N_64-41

PLOT DATE : 9/26/2014 12:09 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF





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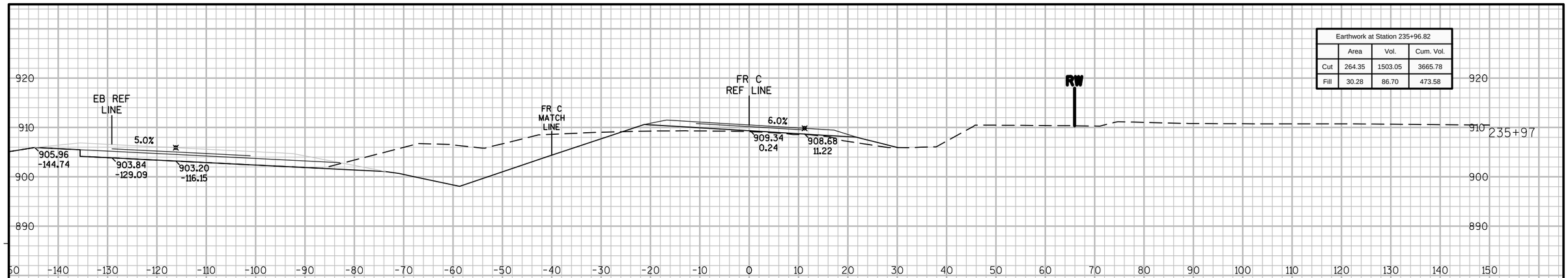
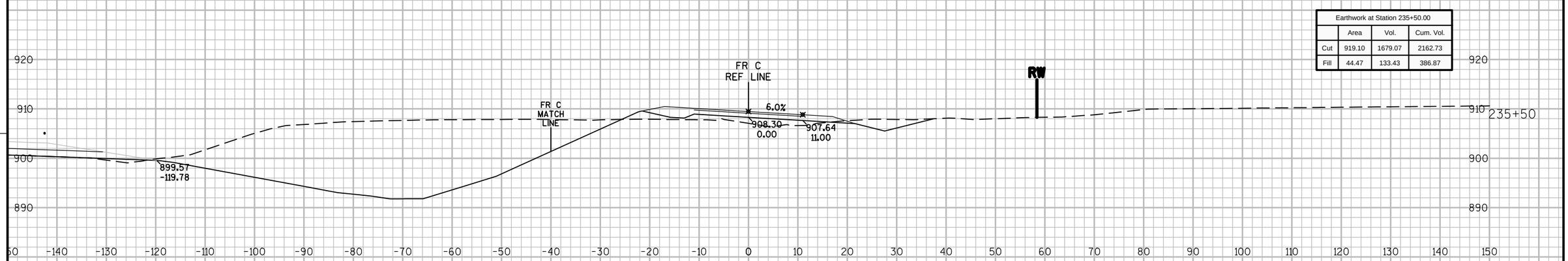
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1079	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-01

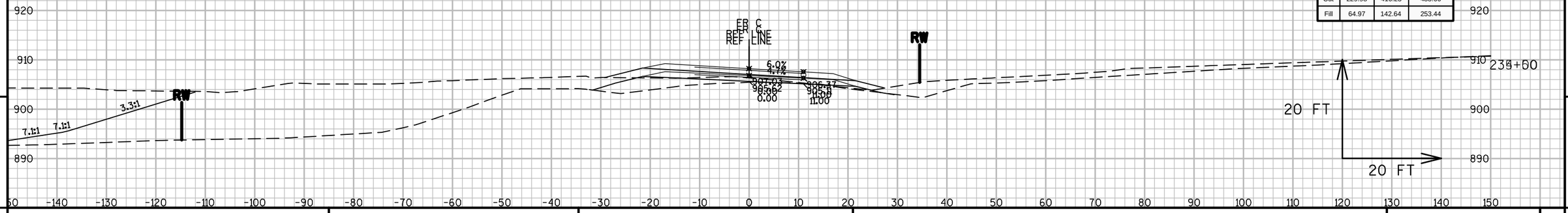
PLOT DATE : 9/25/2014 11:56 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 235+96.82			
	Area	Vol.	Cum. Vol.
Cut	264.35	1503.05	3665.78
Fill	30.28	86.70	473.58



Earthwork at Station 235+50.00			
	Area	Vol.	Cum. Vol.
Cut	919.10	1679.07	2162.73
Fill	44.47	133.43	386.87



Earthwork at Station 235+00.00			
	Area	Vol.	Cum. Vol.
Cut	229.98	416.23	483.66
Fill	64.97	142.64	253.44

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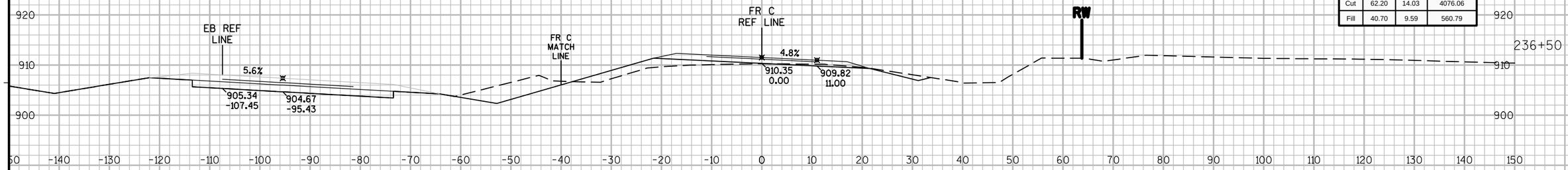
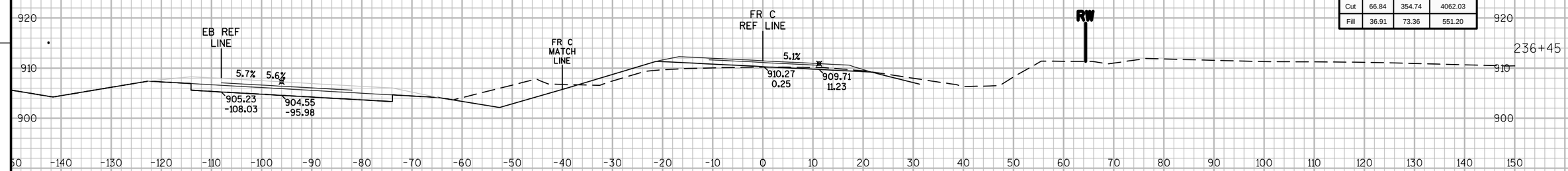
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1080	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-02

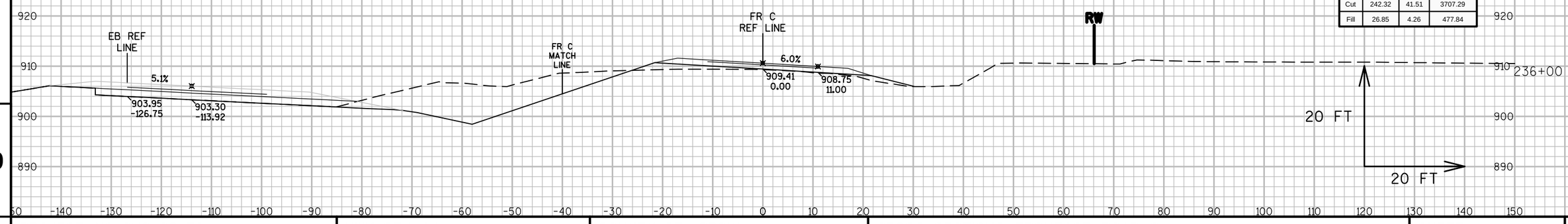
PLOT DATE : 9/25/2014 11:56 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 236+50.00			
	Area	Vol.	Cum. Vol.
Cut	62.20	14.03	4076.06
Fill	40.70	9.59	560.79



Earthwork at Station 236+45.36			
	Area	Vol.	Cum. Vol.
Cut	66.84	354.74	4062.03
Fill	36.91	73.36	551.20



Earthwork at Station 236+00.00			
	Area	Vol.	Cum. Vol.
Cut	242.32	41.51	3707.29
Fill	26.85	4.26	477.84

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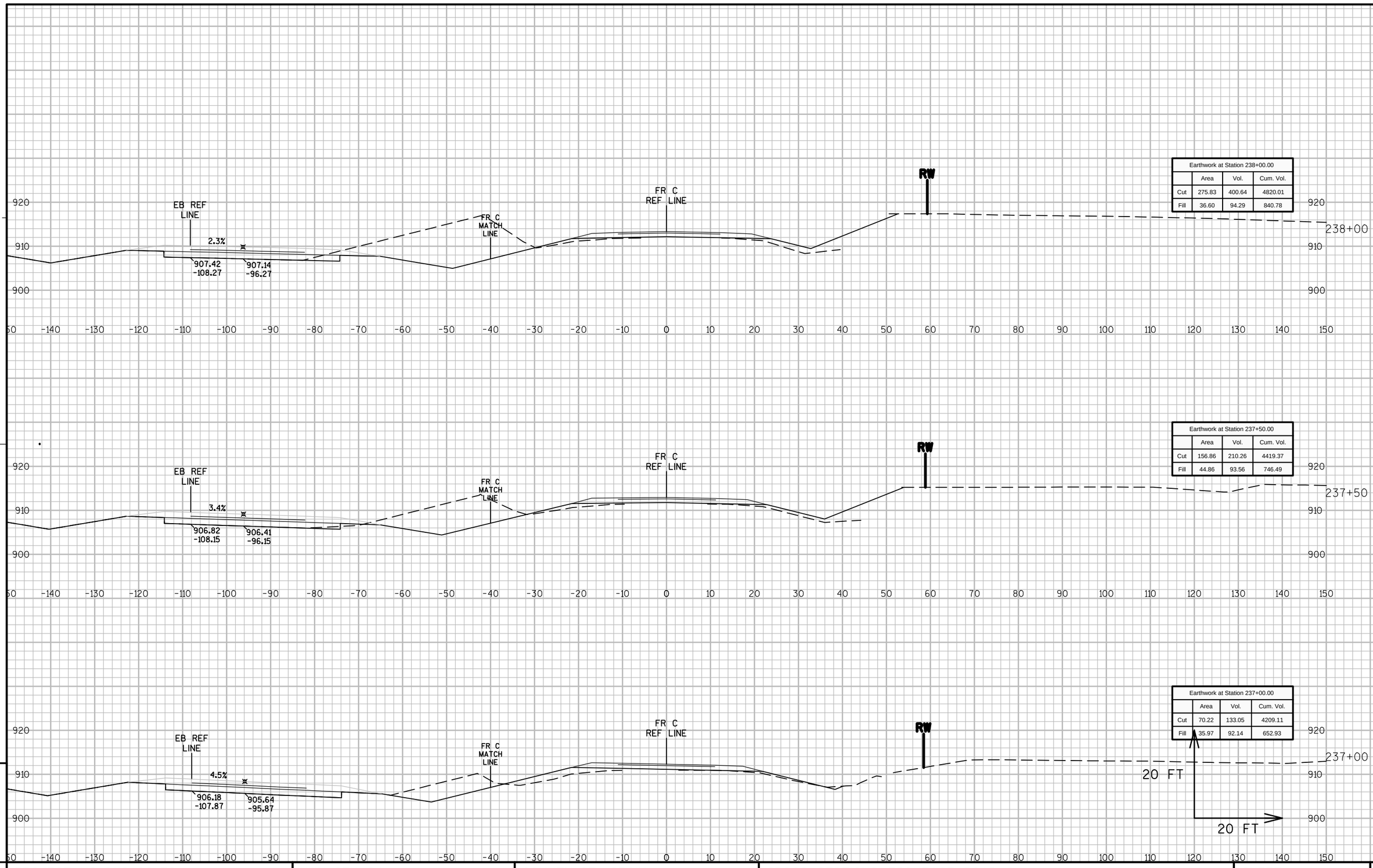
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1081	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-03
PLOT DATE : 9/25/2014 11:56 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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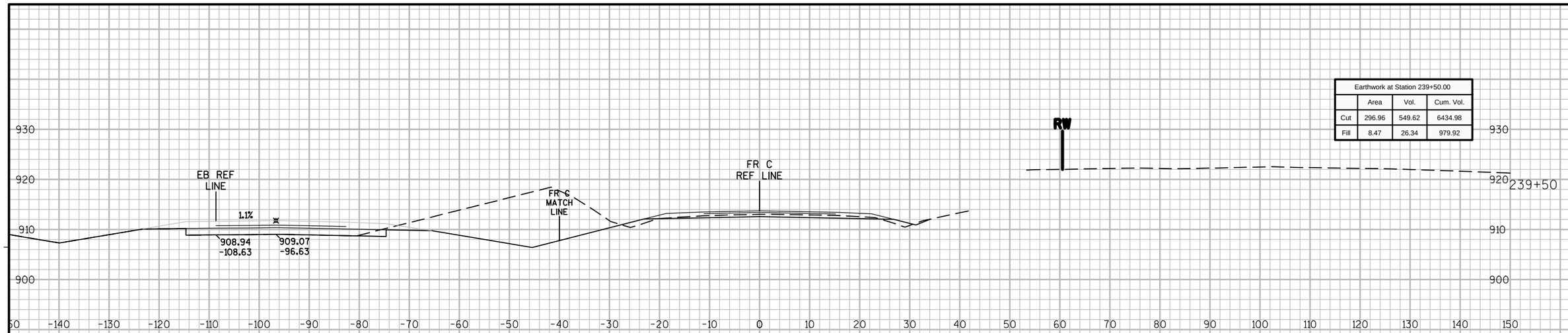
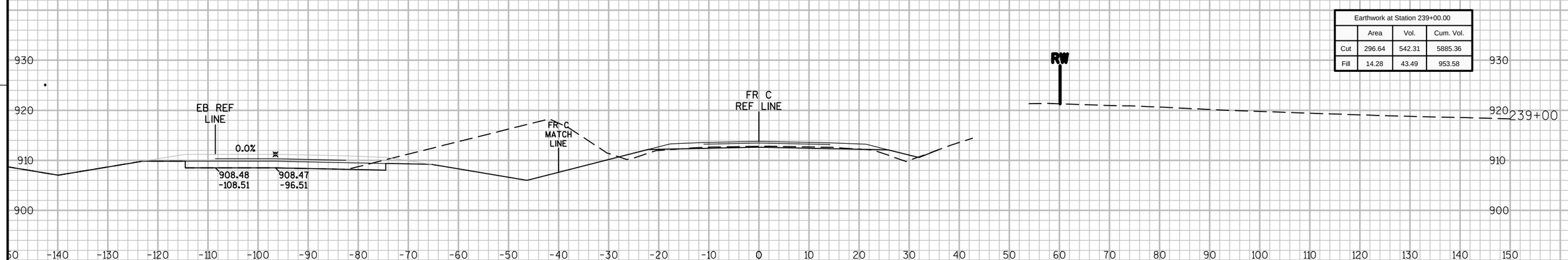
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1082	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-04

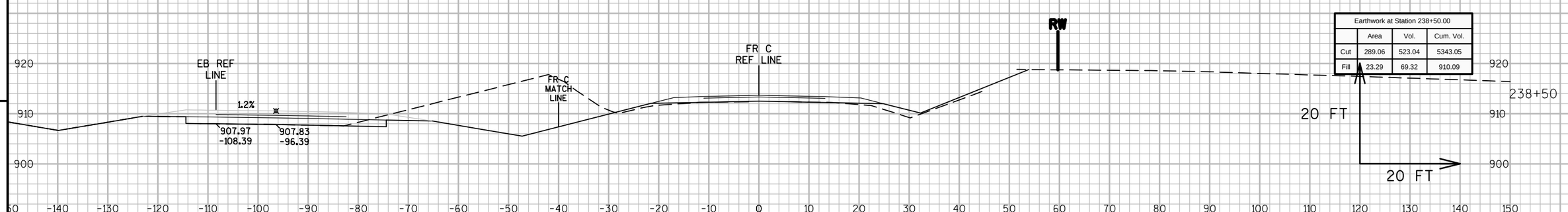
PLOT DATE : 9/25/2014 11:57 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 239+50.00			
	Area	Vol.	Cum. Vol.
Cut	296.96	549.62	6434.98
Fill	8.47	26.34	979.92



Earthwork at Station 239+00.00			
	Area	Vol.	Cum. Vol.
Cut	296.64	542.31	5885.36
Fill	14.28	43.49	953.58



Earthwork at Station 238+50.00			
	Area	Vol.	Cum. Vol.
Cut	289.06	523.04	5343.05
Fill	23.29	69.32	910.09

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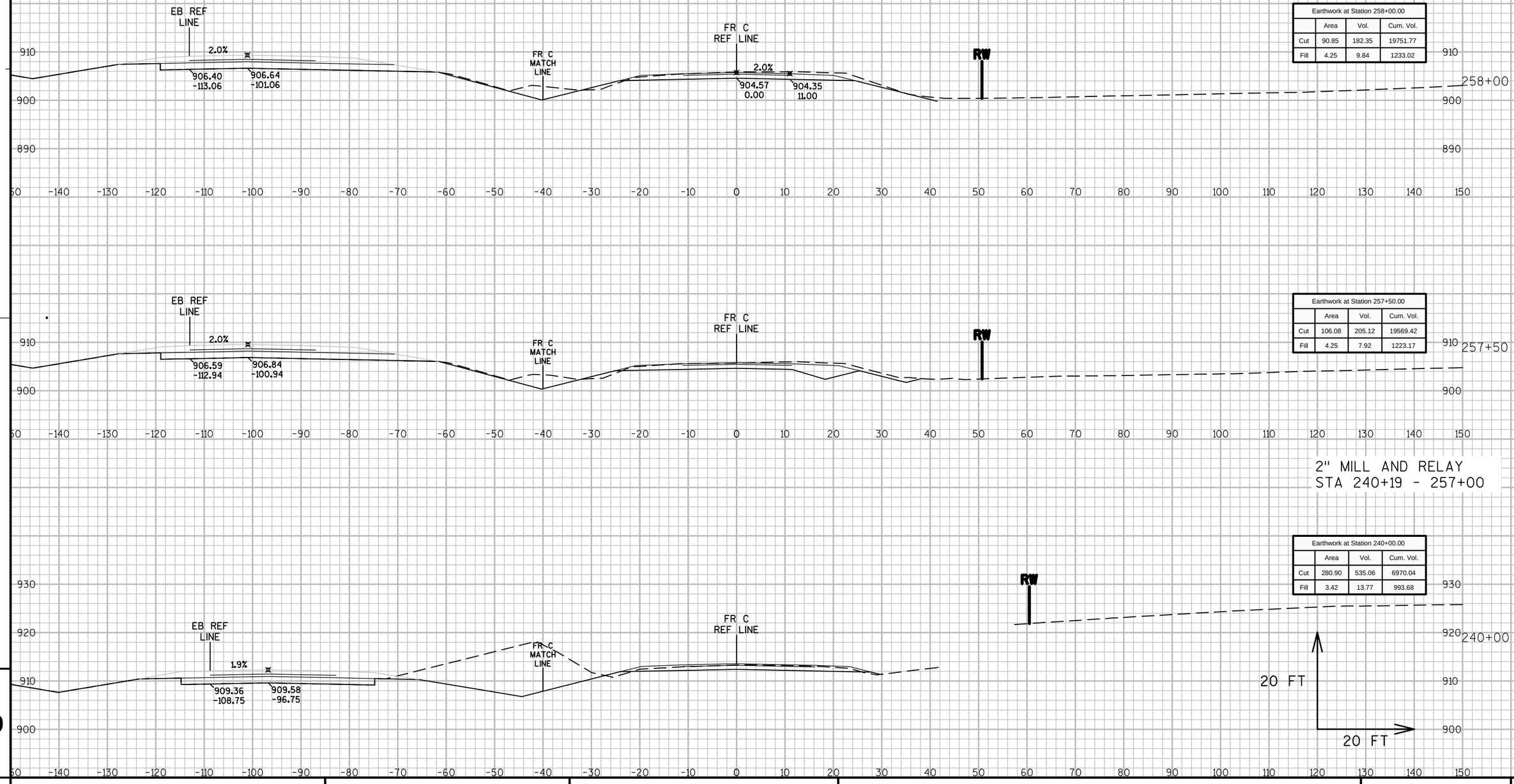
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1083	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-05

PLOT DATE : 9/25/2014 11:57 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 258+00.00			
	Area	Vol.	Cum. Vol.
Cut	90.85	182.35	19751.77
Fill	4.25	9.84	1233.02

Earthwork at Station 257+50.00			
	Area	Vol.	Cum. Vol.
Cut	106.08	205.12	19569.42
Fill	4.25	7.92	1223.17

2" MILL AND RELAY
STA 240+19 - 257+00

Earthwork at Station 240+00.00			
	Area	Vol.	Cum. Vol.
Cut	280.90	535.06	6970.04
Fill	3.42	13.77	993.68

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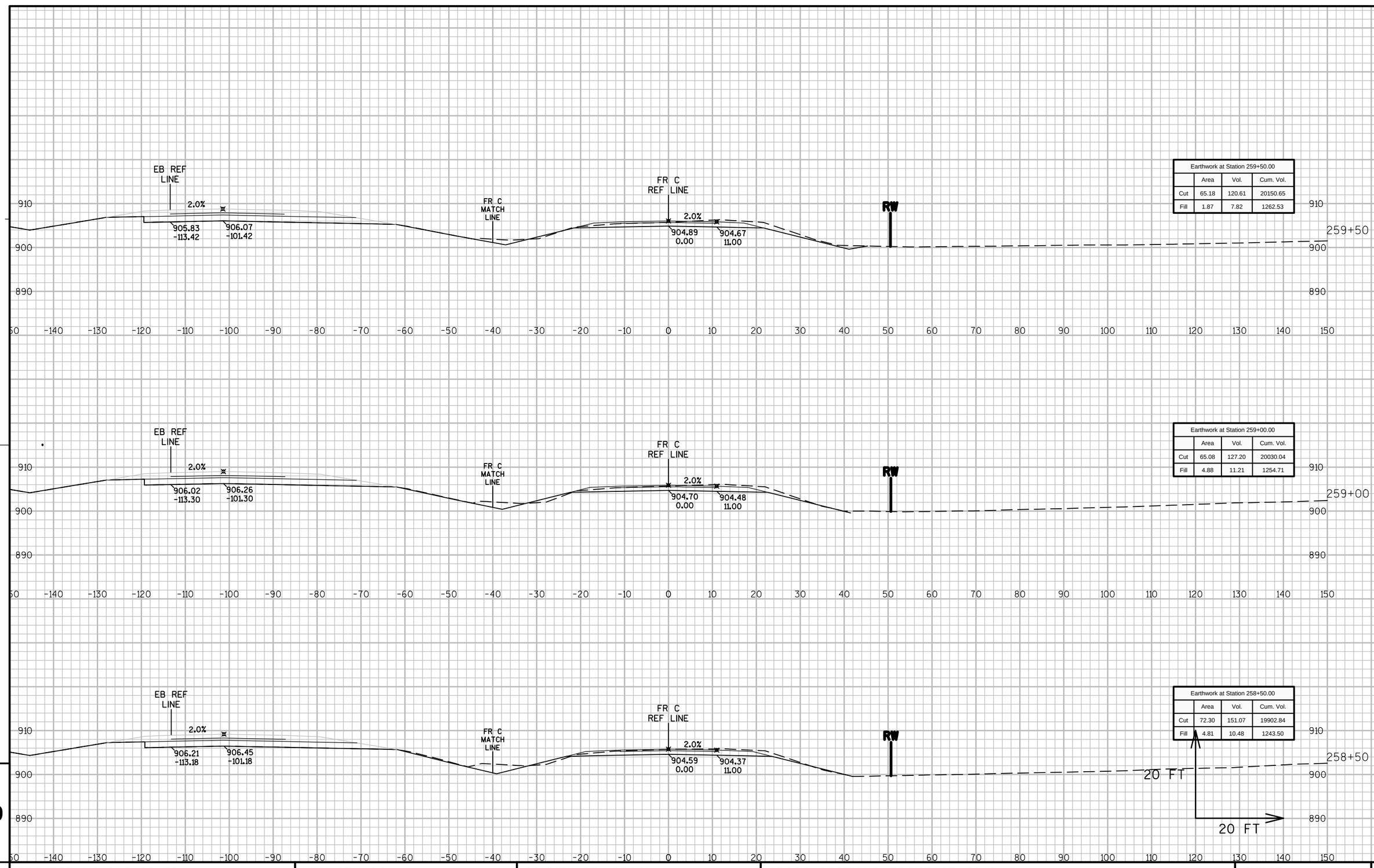
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1084	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-06

PLOT DATE : 9/25/2014 11:57 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 259+50.00			
	Area	Vol.	Cum. Vol.
Cut	65.18	120.61	20150.65
Fill	1.87	7.82	1262.53

Earthwork at Station 259+00.00			
	Area	Vol.	Cum. Vol.
Cut	65.08	127.20	20030.04
Fill	4.88	11.21	1254.71

Earthwork at Station 258+50.00			
	Area	Vol.	Cum. Vol.
Cut	72.30	151.07	19902.84
Fill	4.81	10.48	1243.50

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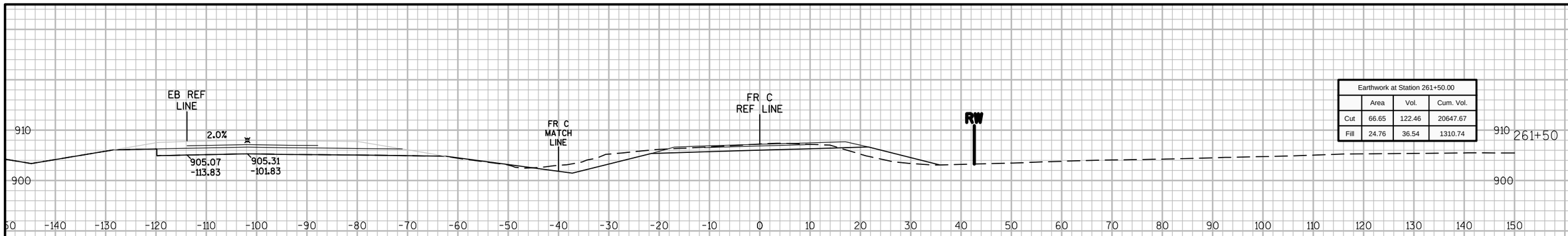
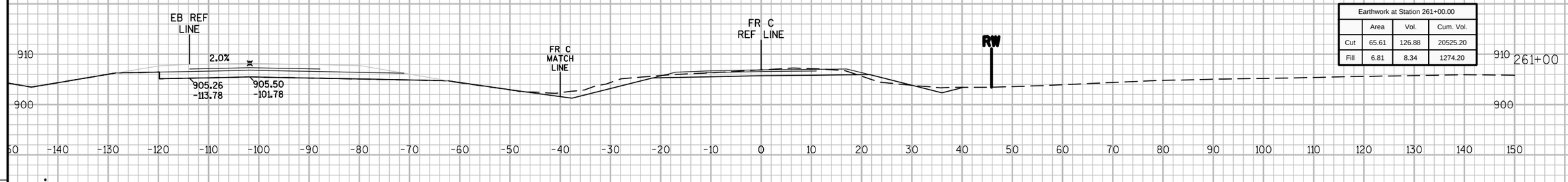
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1085	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-07

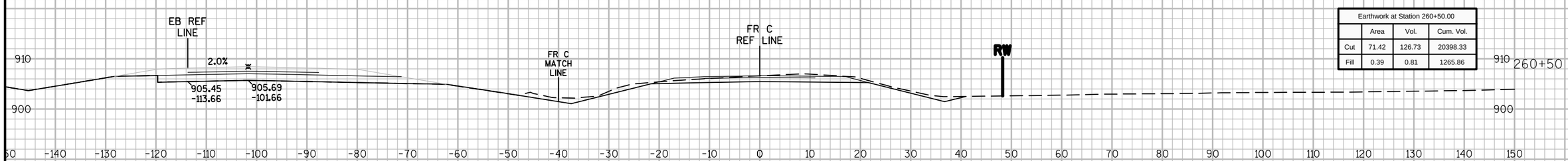
PLOT DATE : 9/25/2014 11:58 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



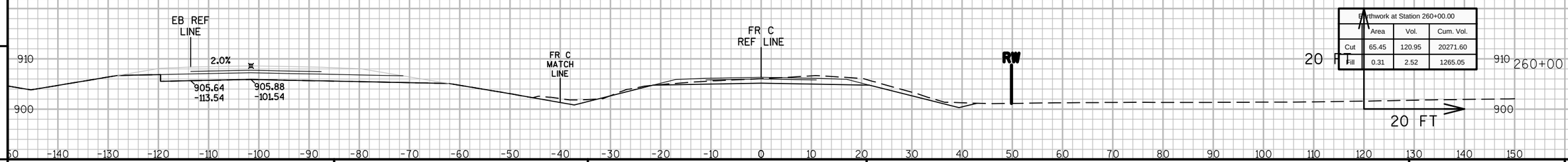
Earthwork at Station 261+50.00			
	Area	Vol.	Cum. Vol.
Cut	66.65	122.46	20647.67
Fill	24.76	36.54	1310.74



Earthwork at Station 261+00.00			
	Area	Vol.	Cum. Vol.
Cut	65.61	126.88	20525.20
Fill	6.81	8.34	1274.20



Earthwork at Station 260+50.00			
	Area	Vol.	Cum. Vol.
Cut	71.42	126.73	20398.33
Fill	0.39	0.81	1265.86



Earthwork at Station 260+00.00			
	Area	Vol.	Cum. Vol.
Cut	65.45	120.95	20271.60
Fill	0.31	2.52	1265.05

9

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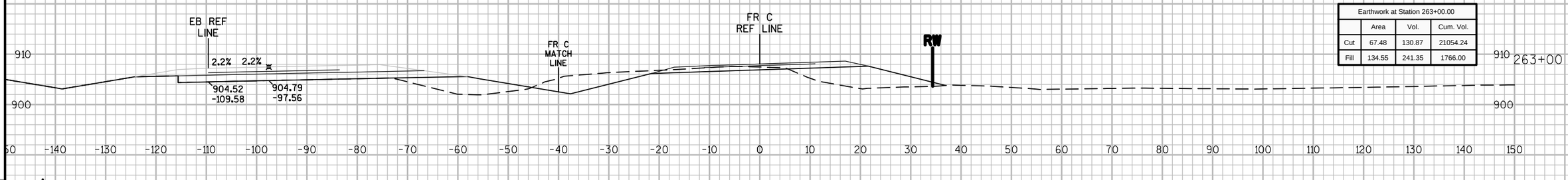
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1086	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-08

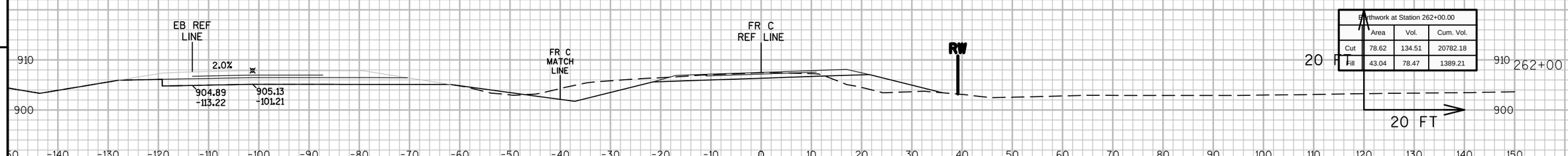
PLOT DATE : 9/25/2014 11:58 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

Earthwork at Station 263+50.00			
	Area	Vol.	Cum. Vol.
Cut	70.54	127.80	21182.03
Fill	158.24	338.87	2104.87



Earthwork at Station 263+00.00			
	Area	Vol.	Cum. Vol.
Cut	67.48	130.87	21054.24
Fill	134.55	241.35	1766.00

Earthwork at Station 262+50.00			
	Area	Vol.	Cum. Vol.
Cut	73.86	141.19	20923.37
Fill	73.98	135.44	1524.65



Earthwork at Station 262+00.00			
	Area	Vol.	Cum. Vol.
Cut	78.62	134.51	20782.18
Fill	43.04	78.47	1389.21

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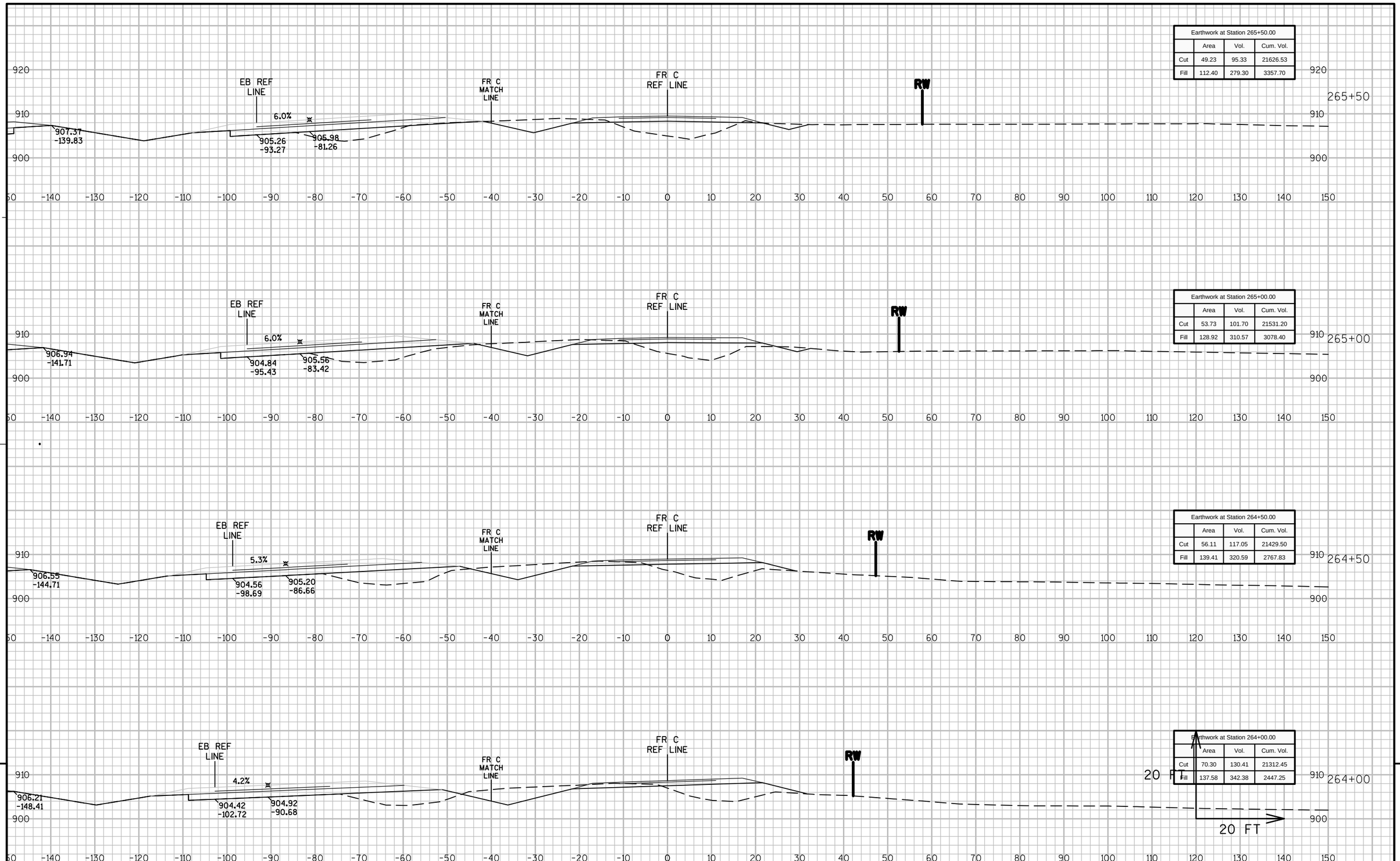
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1087	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-09

PLOT DATE : 9/25/2014 11:59 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



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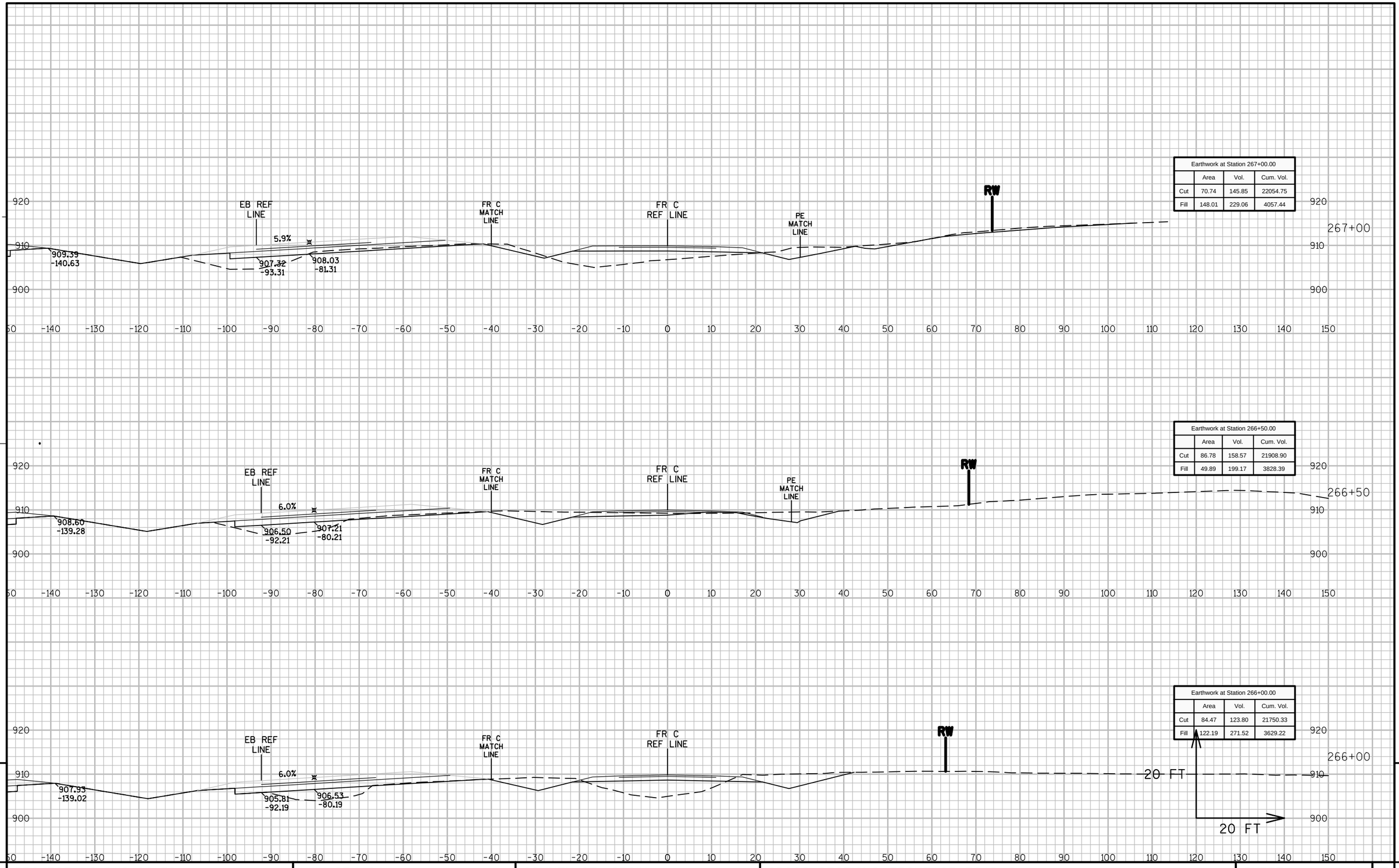
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1088	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-10

PLOT DATE : 9/25/2014 11:59 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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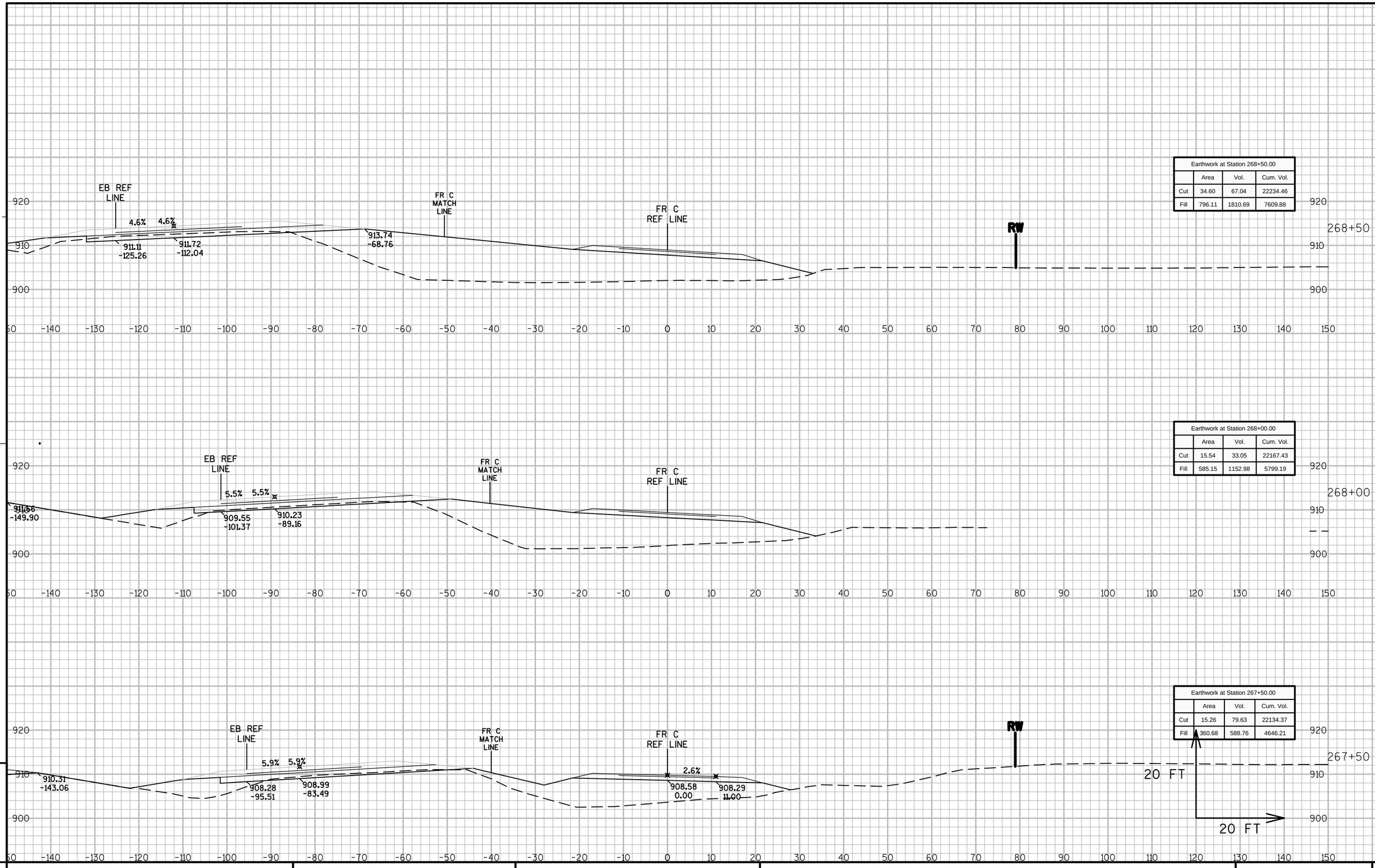
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1089	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-11

PLOT DATE : 9/25/2014 11:59 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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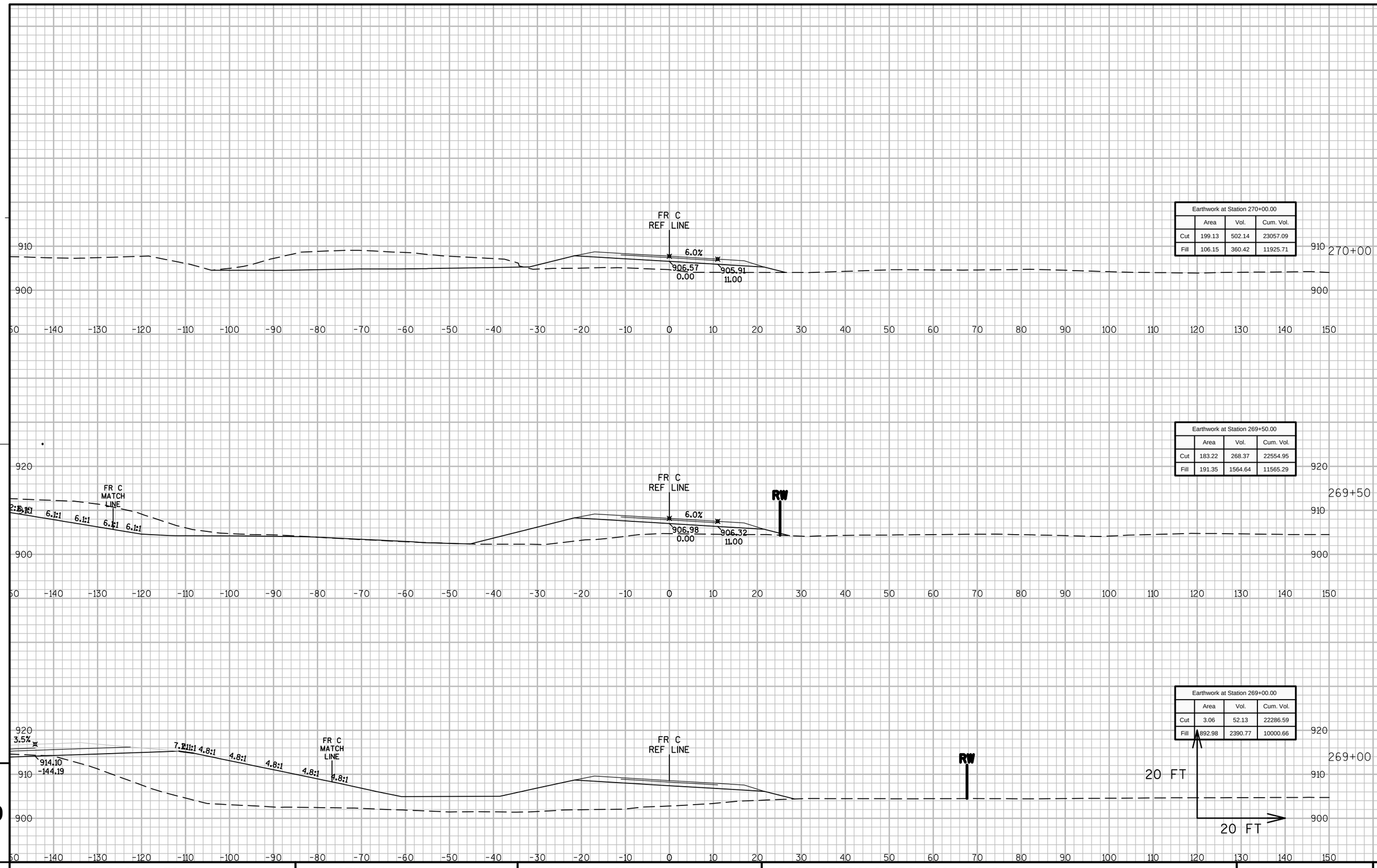
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1090	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-12

PLOT DATE : 9/26/2014 12:00 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



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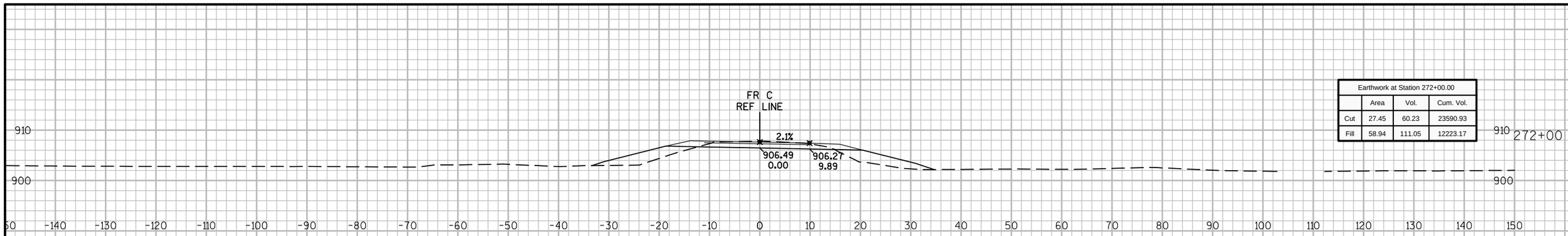
9

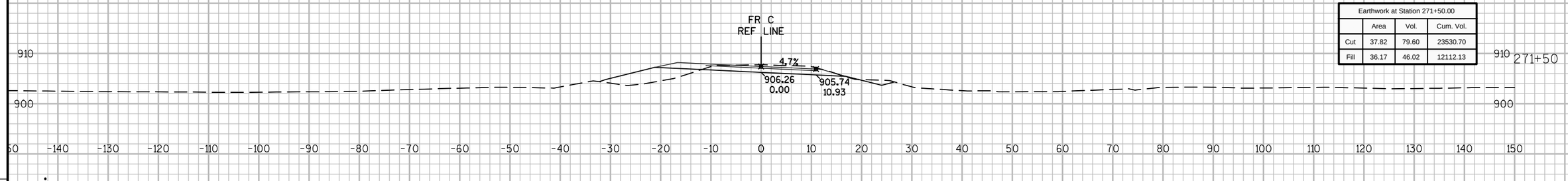
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1091	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-13

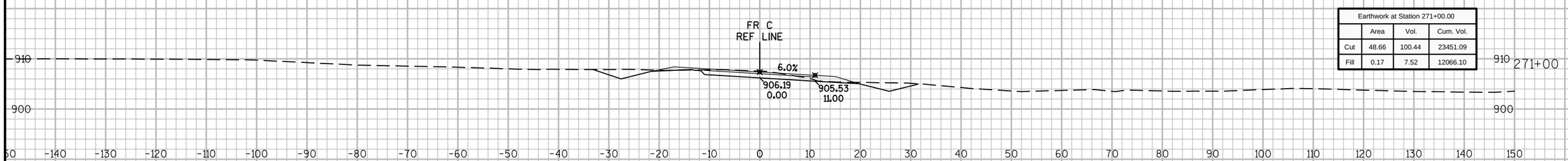
PLOT DATE : 9/26/2014 12:00 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



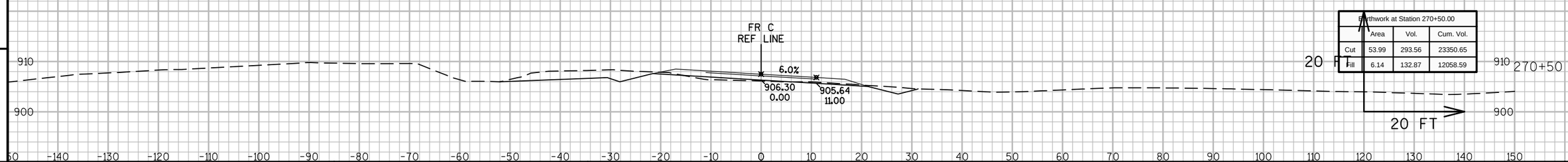
Earthwork at Station 272+00.00			
	Area	Vol.	Cum. Vol.
Cut	27.45	60.23	23590.93
Fill	58.94	111.05	12223.17



Earthwork at Station 271+50.00			
	Area	Vol.	Cum. Vol.
Cut	37.82	79.60	23530.70
Fill	36.17	46.02	12112.13



Earthwork at Station 271+00.00			
	Area	Vol.	Cum. Vol.
Cut	48.66	100.44	23451.09
Fill	0.17	7.52	12066.10



Earthwork at Station 270+50.00			
	Area	Vol.	Cum. Vol.
Cut	53.99	293.56	23350.65
Fill	6.14	132.87	12058.59

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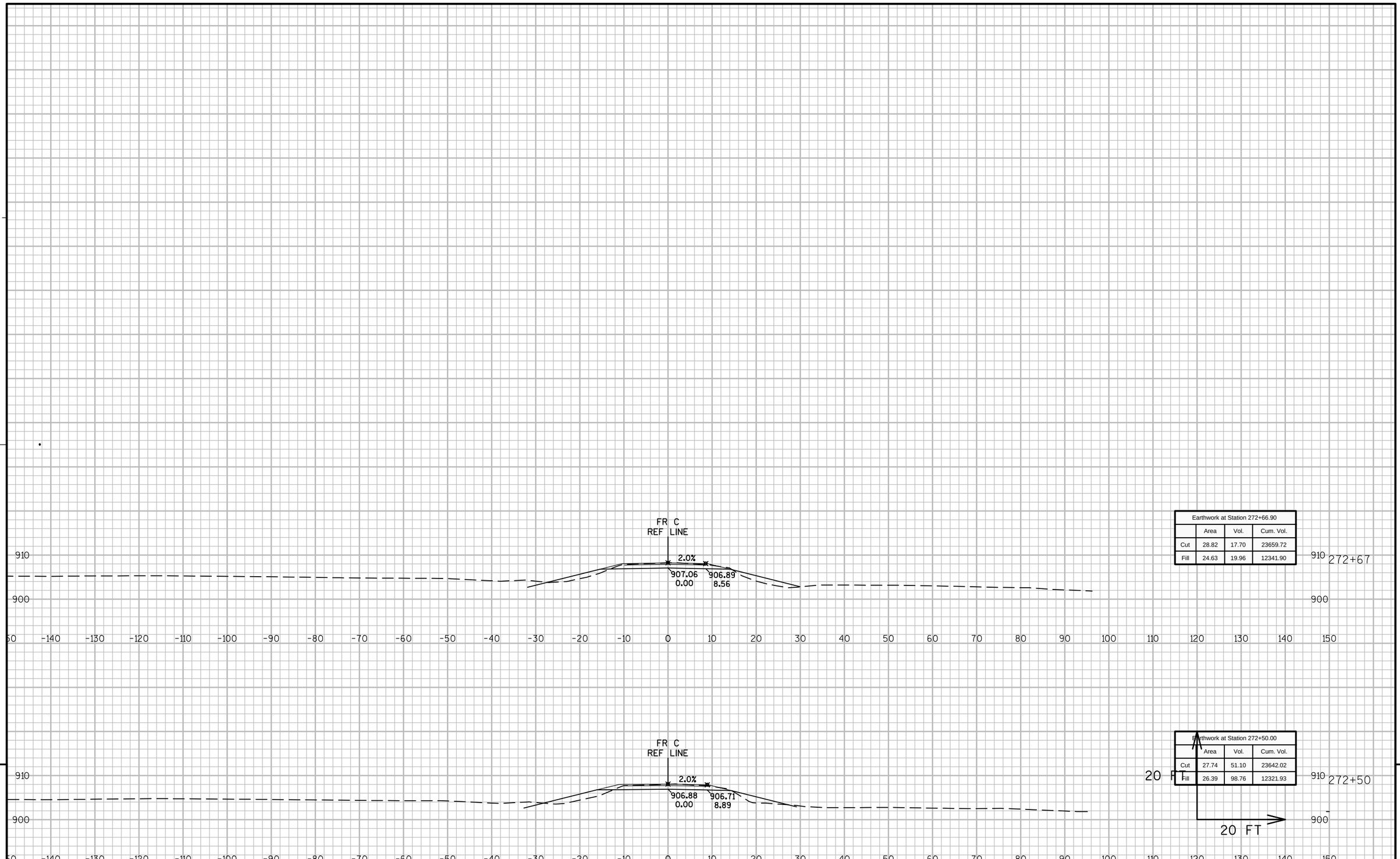
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1092	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-14

PLOT DATE : 9/26/2014 12:00 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF



Earthwork at Station 272+66.90			
	Area	Vol.	Cum. Vol.
Cut	28.82	17.70	23659.72
Fill	24.63	19.96	12341.90

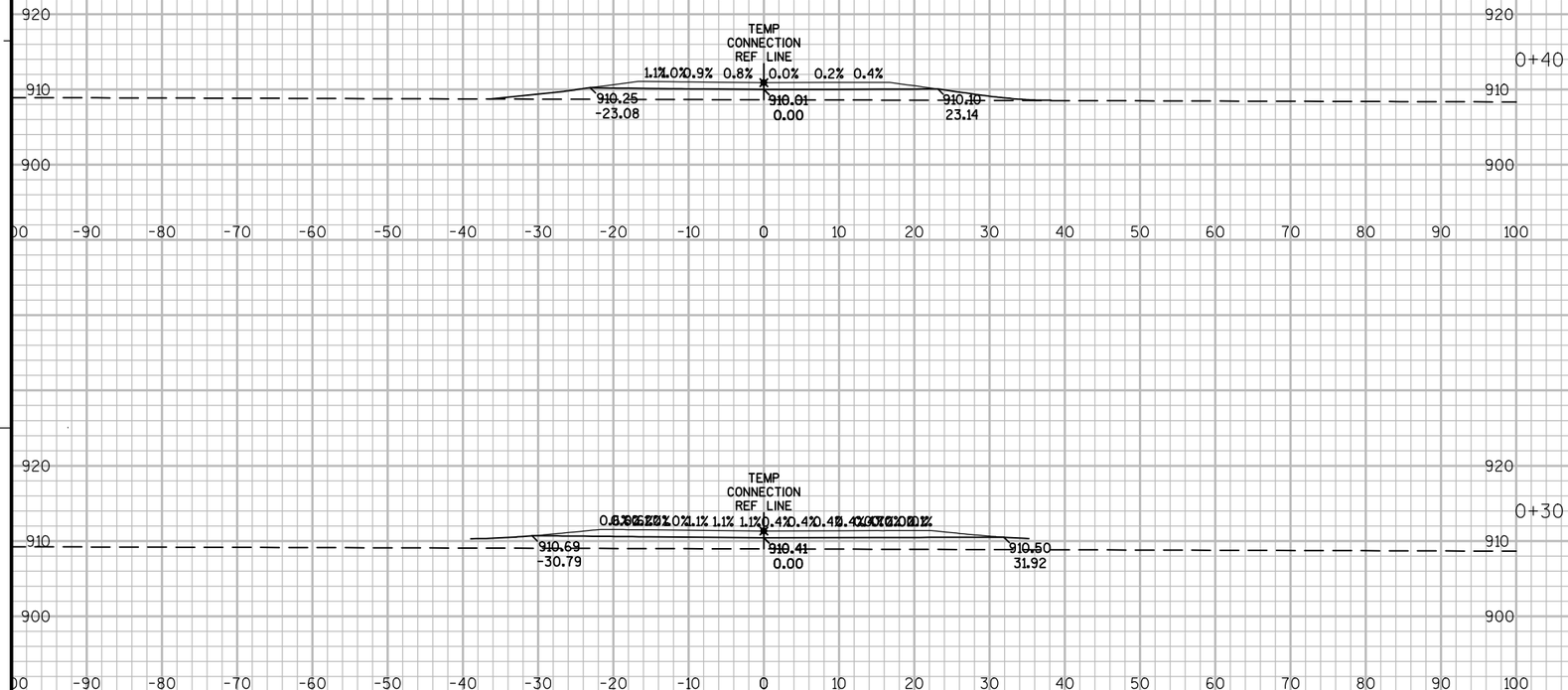
Earthwork at Station 272+50.00			
	Area	Vol.	Cum. Vol.
Cut	27.74	51.10	23642.02
Fill	26.39	98.76	12321.93

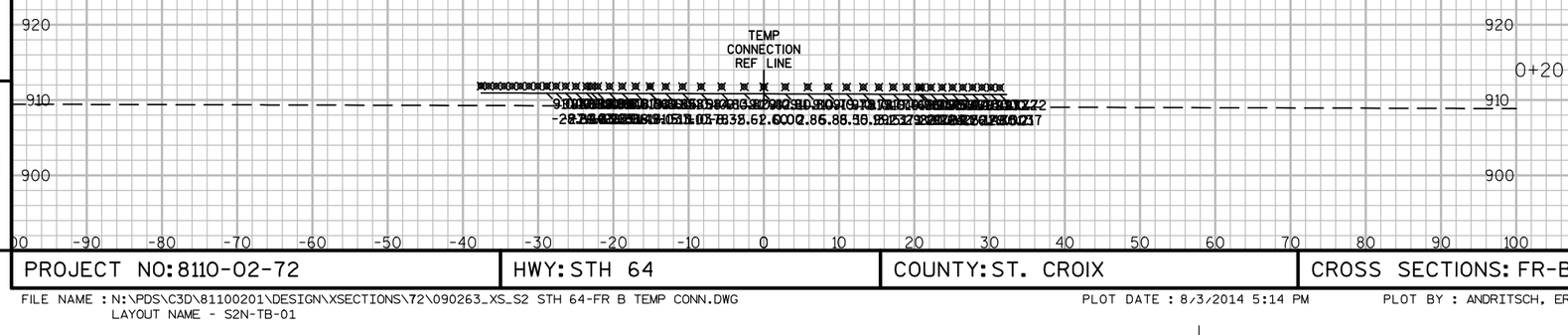
9 9

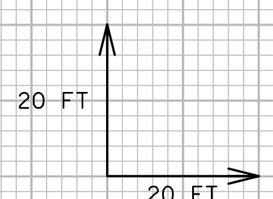
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FRONTAGE ROAD C	SHEET 1093	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_FR_RD-C.DWG
LAYOUT NAME - FRC-15

PLOT DATE : 9/26/2014 12:01 AM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF







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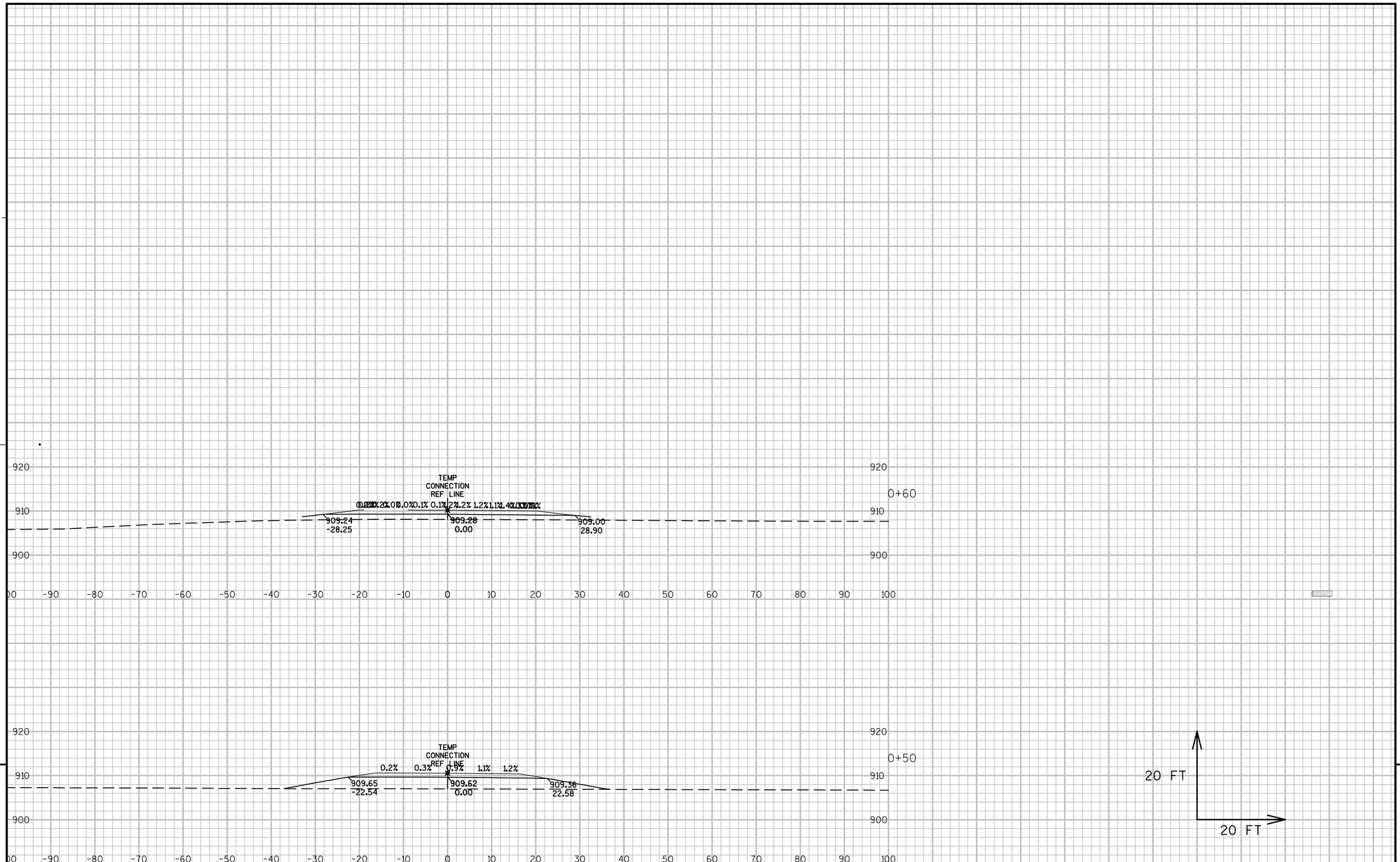
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FR-B TEMPORARY CONNECTION	SHEET 1094	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S2 STH 64-FR B TEMP CONN.DWG
LAYOUT NAME - S2N-TB-01
PLOT DATE : 8/3/2014 5:14 PM
PLOT BY : ANDRITSCH, ERIC R
PLOT NAME :
PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



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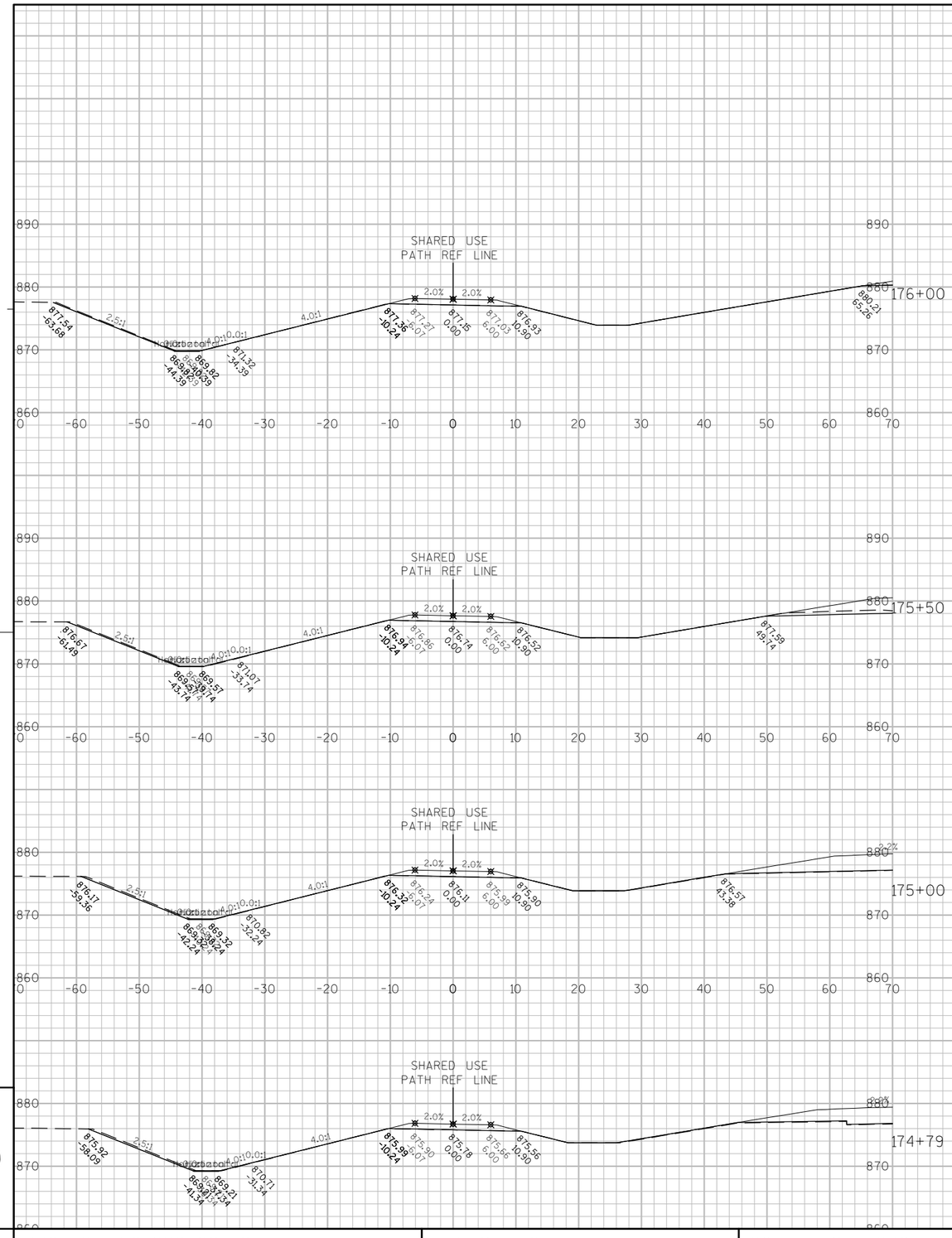
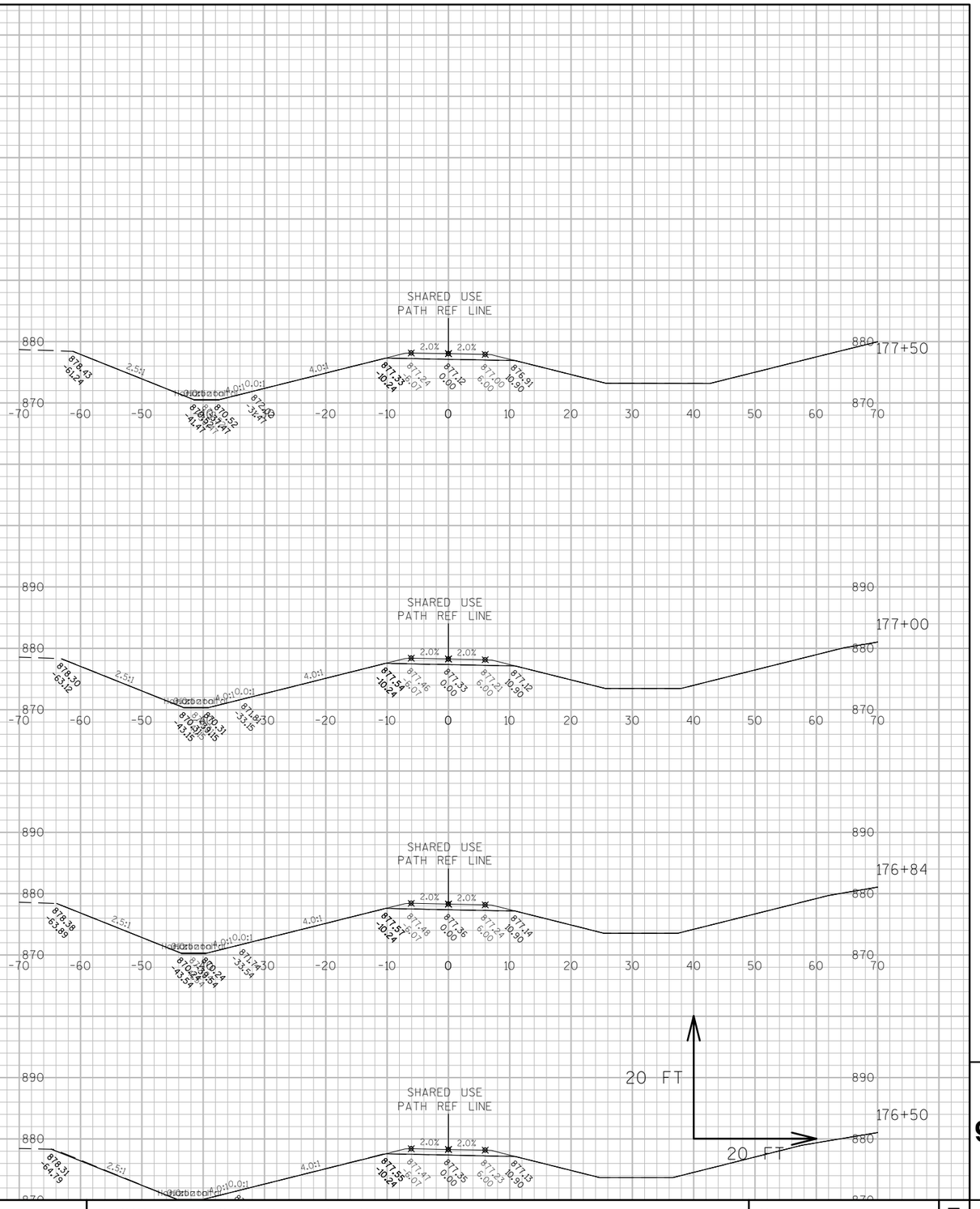
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: FR-B TEMPORARY CONNECTION	SHEET 1095	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090263_XS_S2 STH 64-FR B TEMP CONN.DWG
LAYOUT NAME - S2N-TB-02

PLOT DATE : 8/3/2014 5:14 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : PLOT SCALE : 1:20_XREF





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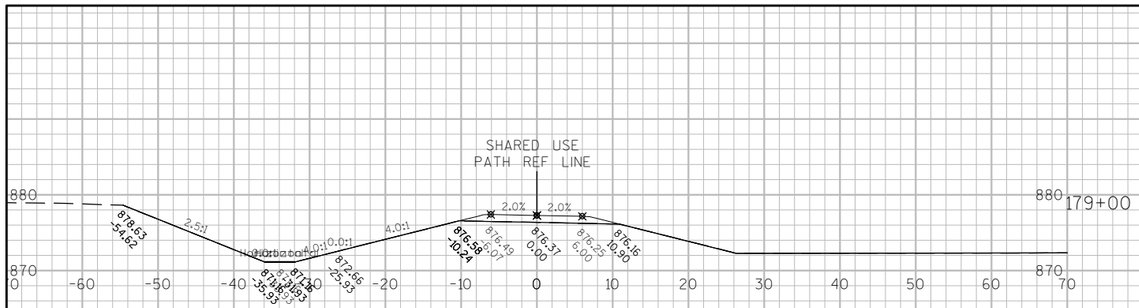
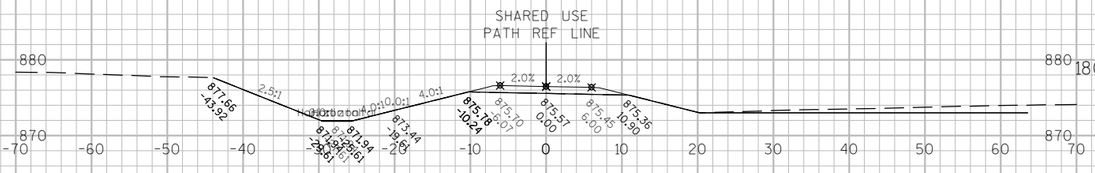
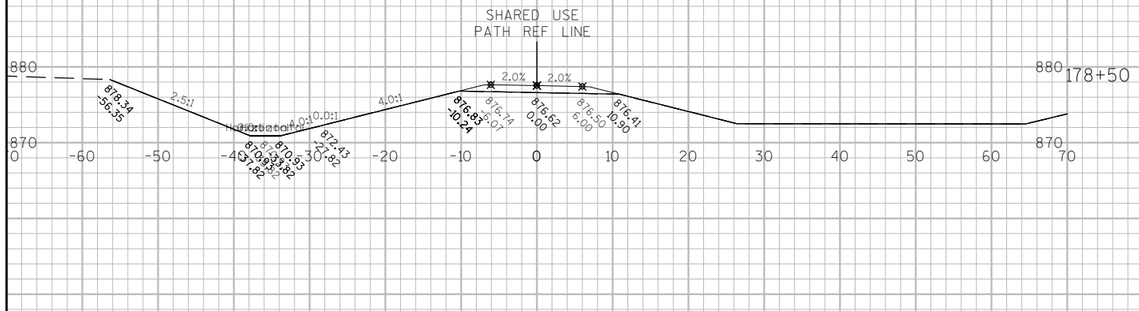
9

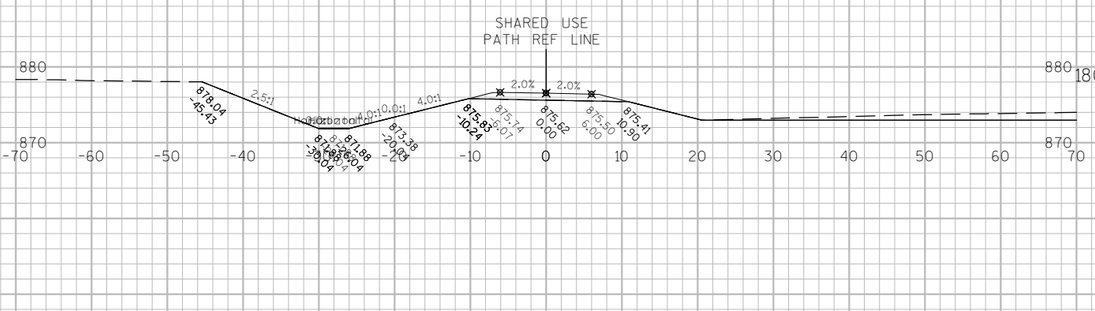
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SHARED USE PATH	SHEET 1096	E

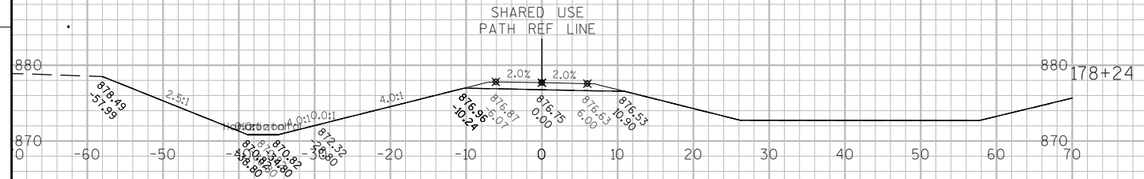
FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090255_XS_STH64_BIKEPATH.DWG
LAYOUT NAME - 55_XS-1
PLOT DATE : 8/4/2014 6:52 PM
PLOT BY : SEBESTA, MAXWELL L PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49

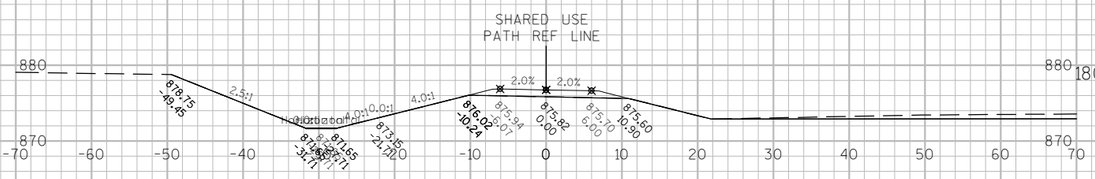


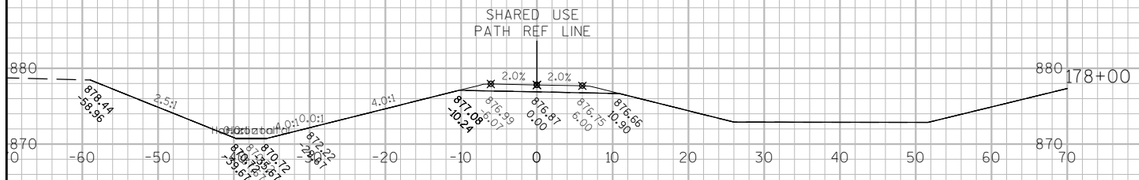


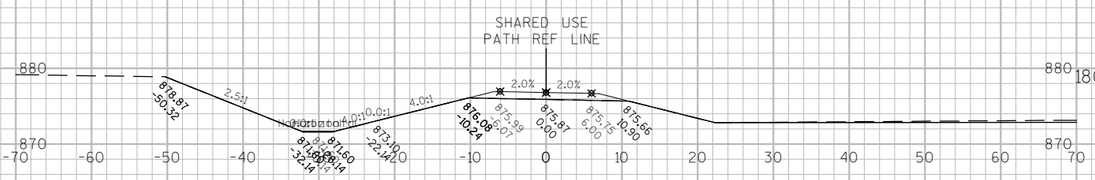


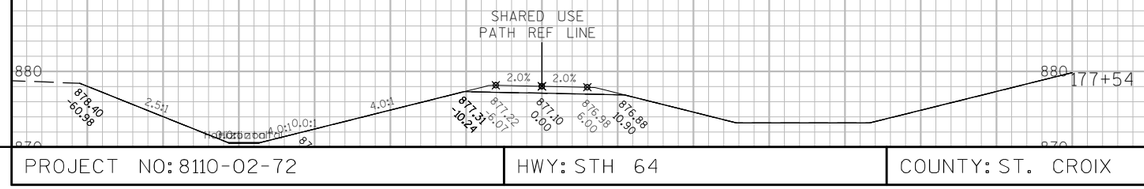


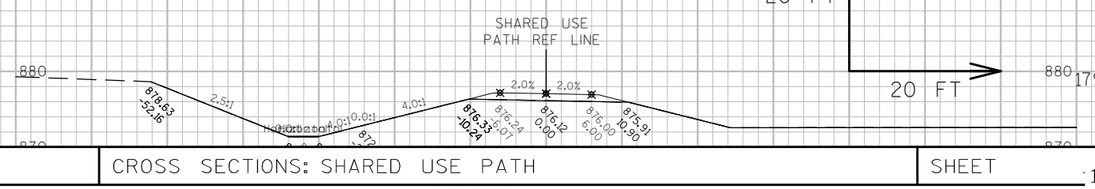


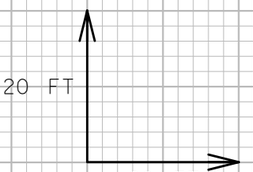












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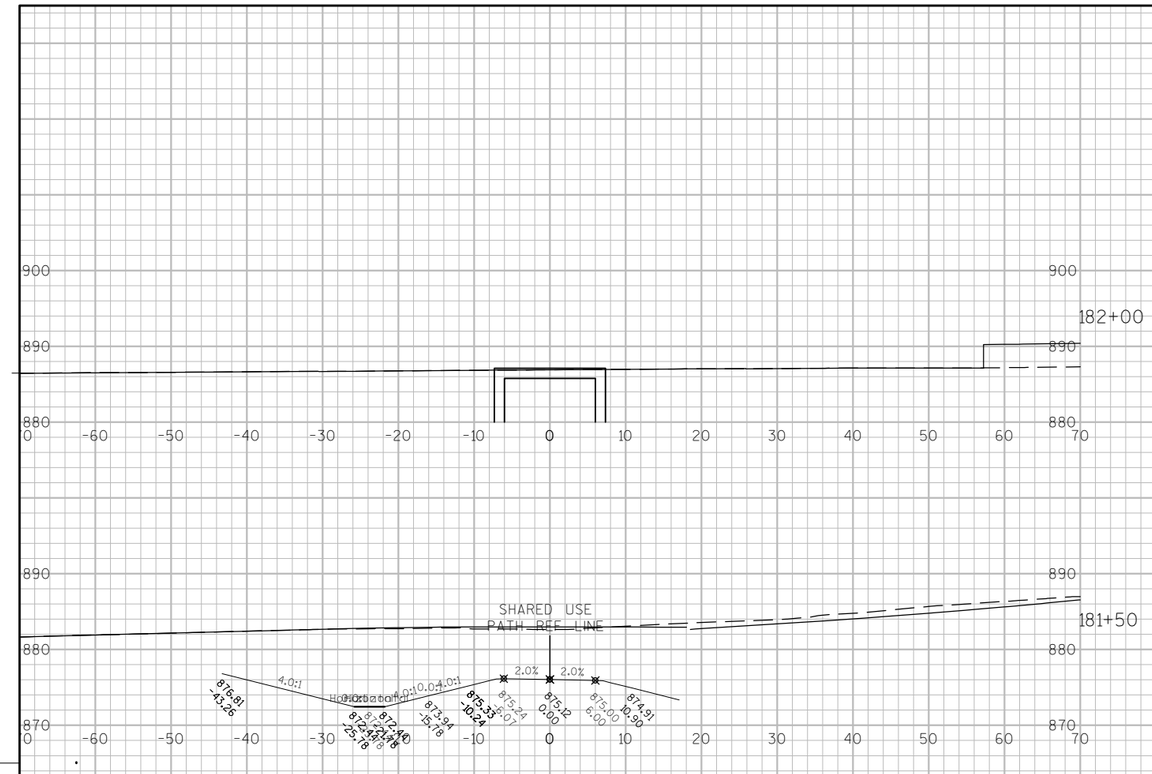
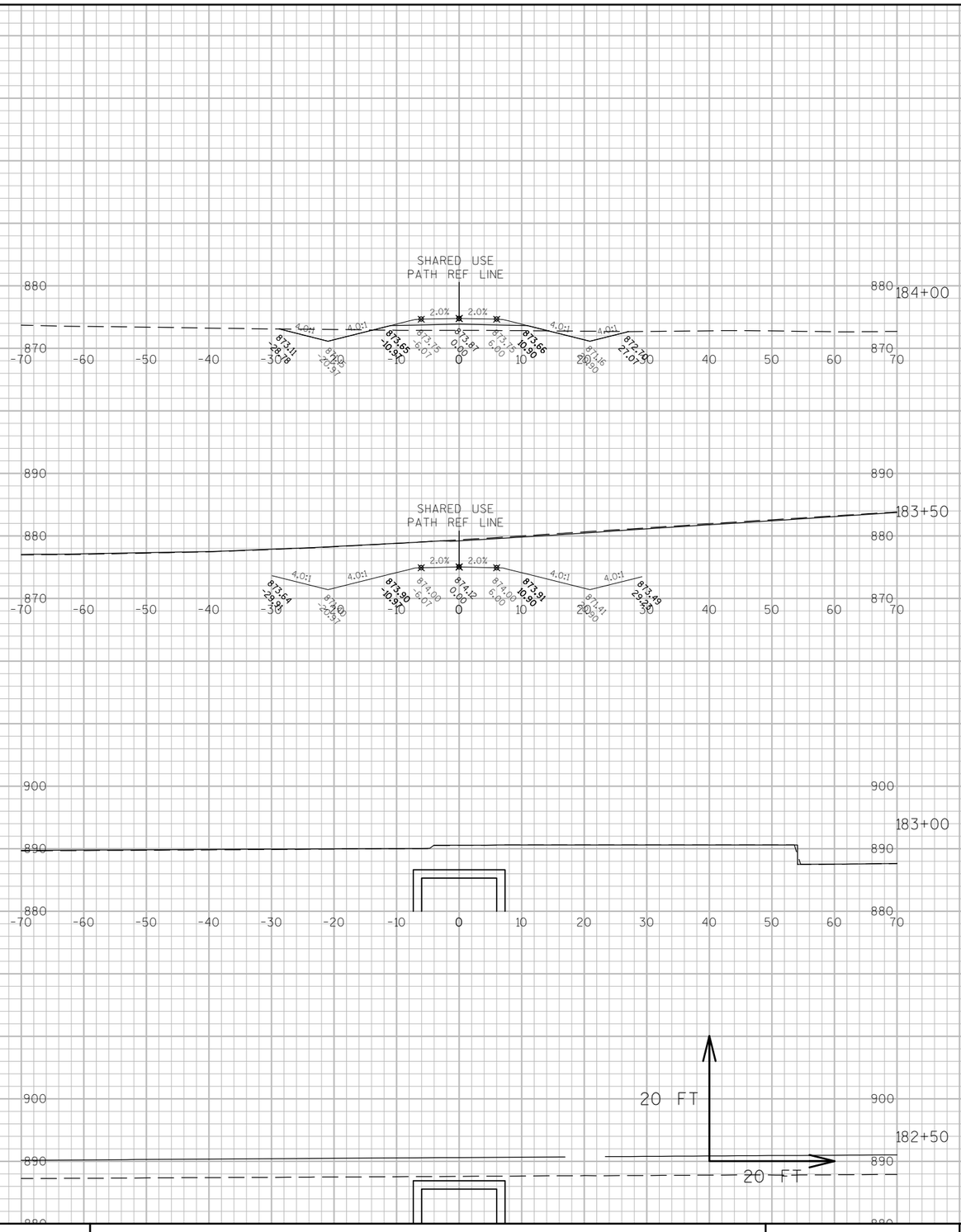
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SHARED USE PATH	SHEET 1097	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090255_XS_STH64_BIKEPATH.DWG
LAYOUT NAME - 55_XS-2
PLOT DATE : 8/4/2014 6:53 PM
PLOT BY : SEBESTA, MAXWELL L PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF
WISDOT/CADDS SHEET 49





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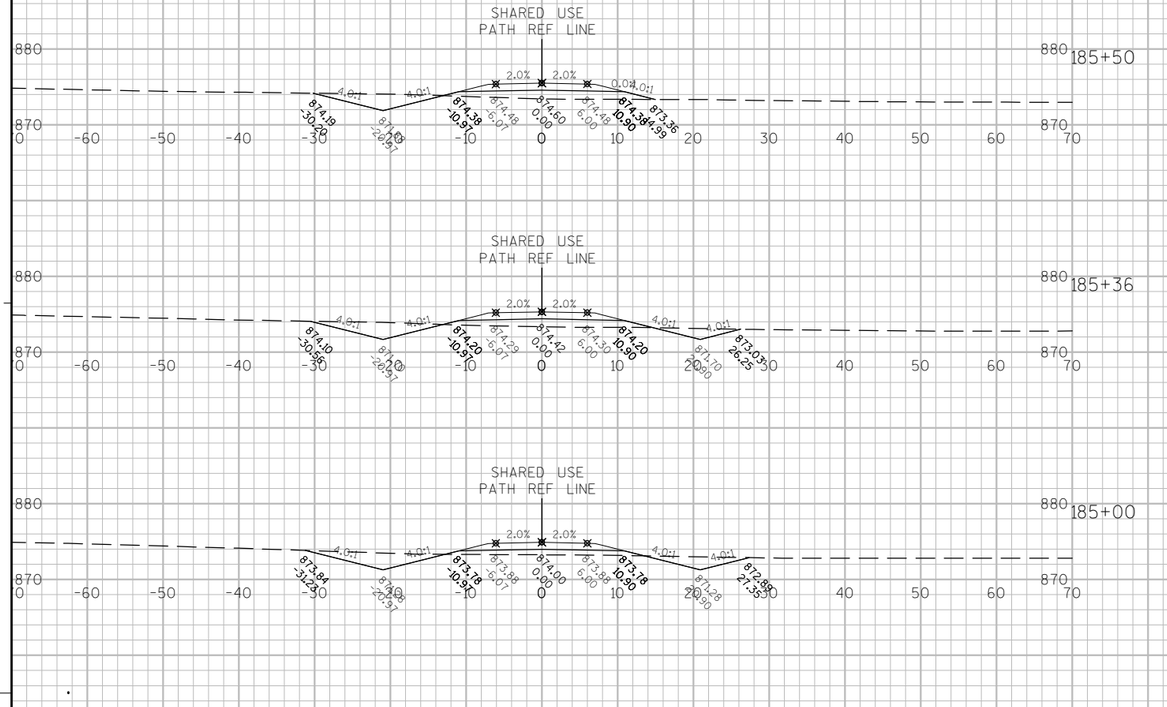
9

PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SHARED USE PATH	SHEET 1098	E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090255_XS_STH64_BIKEPATH.DWG
LAYOUT NAME - 55_XS-3

PLOT DATE : 8/4/2014 6:53 PM PLOT BY : SEBESTA, MAXWELL L PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF



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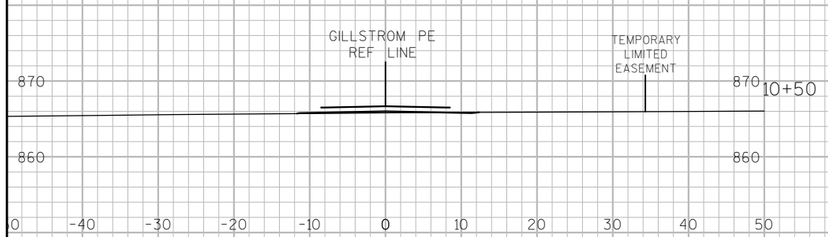
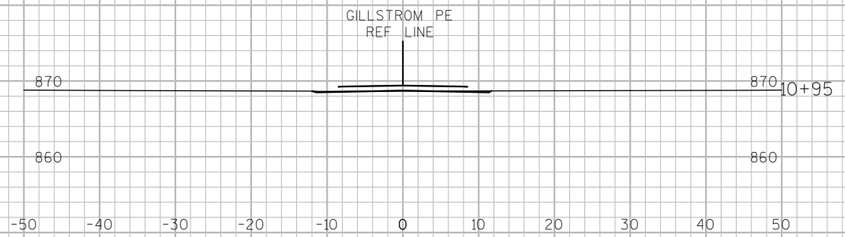
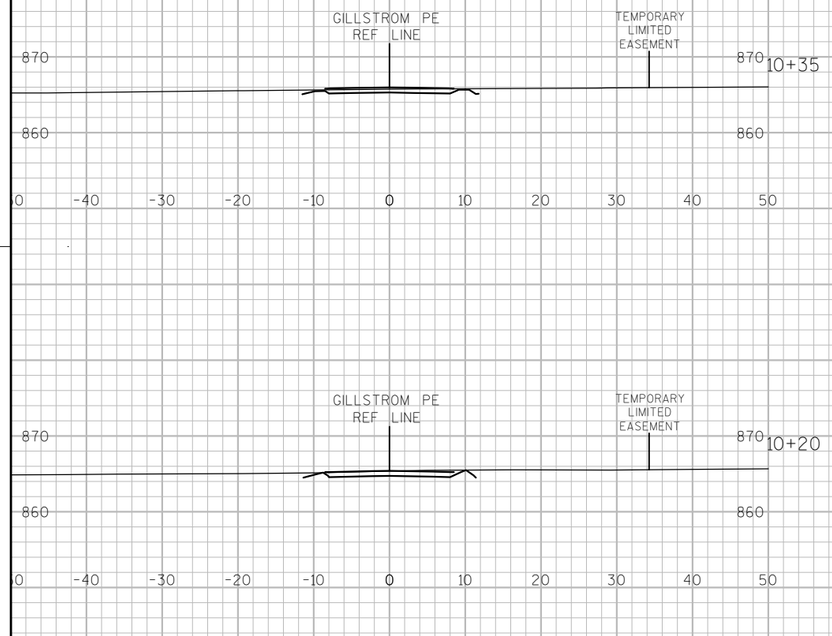
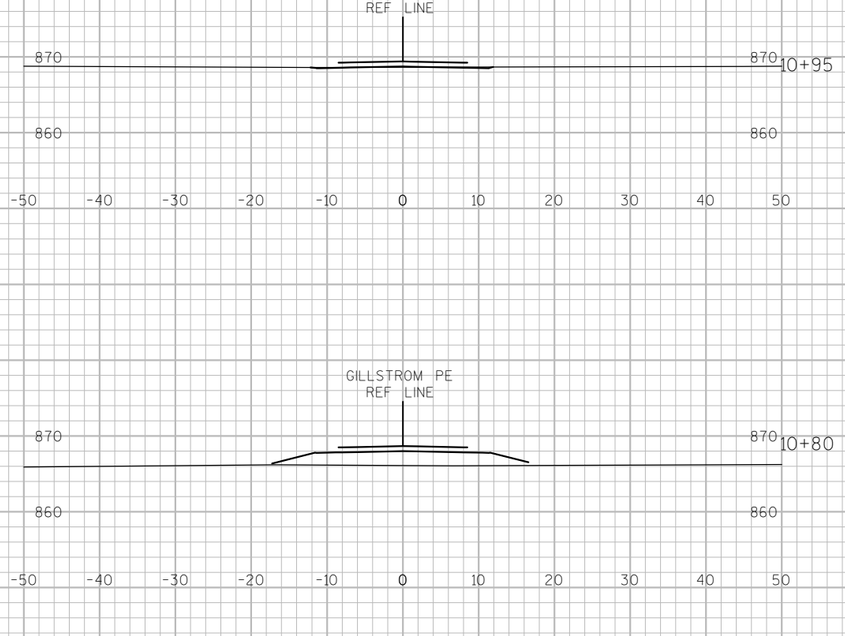
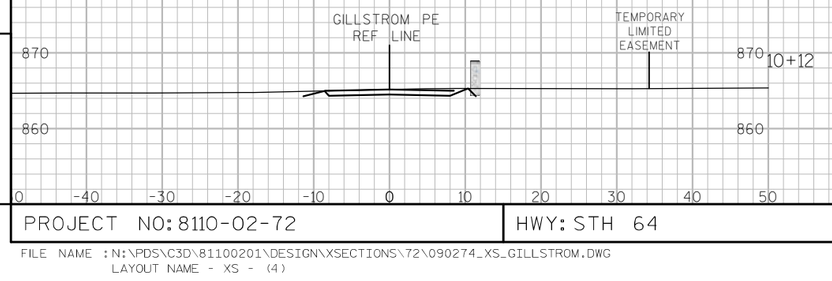
PROJECT NO: 8110-02-72	HWY: STH 64	COUNTY: ST. CROIX	CROSS SECTIONS: SHARED USE PATH	SHEET 1099	E

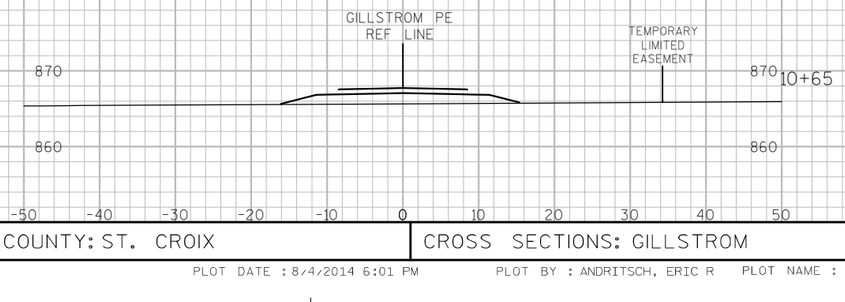


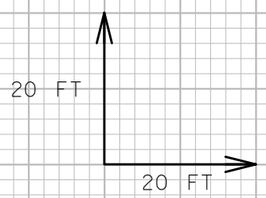












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PROJECT NO: 8110-02-72 | HWY: STH 64 | COUNTY: ST. CROIX | CROSS SECTIONS: GILLSTROM | SHEET 1100 E

FILE NAME : N:\PDS\C3D\81100201\DESIGN\XSECTIONS\72\090274_XS_GILLSTROM.DWG
LAYOUT NAME - XS - (4)

PLOT DATE : 8/4/2014 6:01 PM PLOT BY : ANDRITSCH, ERIC R PLOT NAME : ---------- PLOT SCALE : 1" = 20'_XREF

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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