PROJECT ID: **9110-09-60**

WITH:

COUNTY: **FLORENCE**

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 =

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CAVOUR - BRULE RIVER

NBN RR, POPPLE RVR, B-19-4,5, C-001

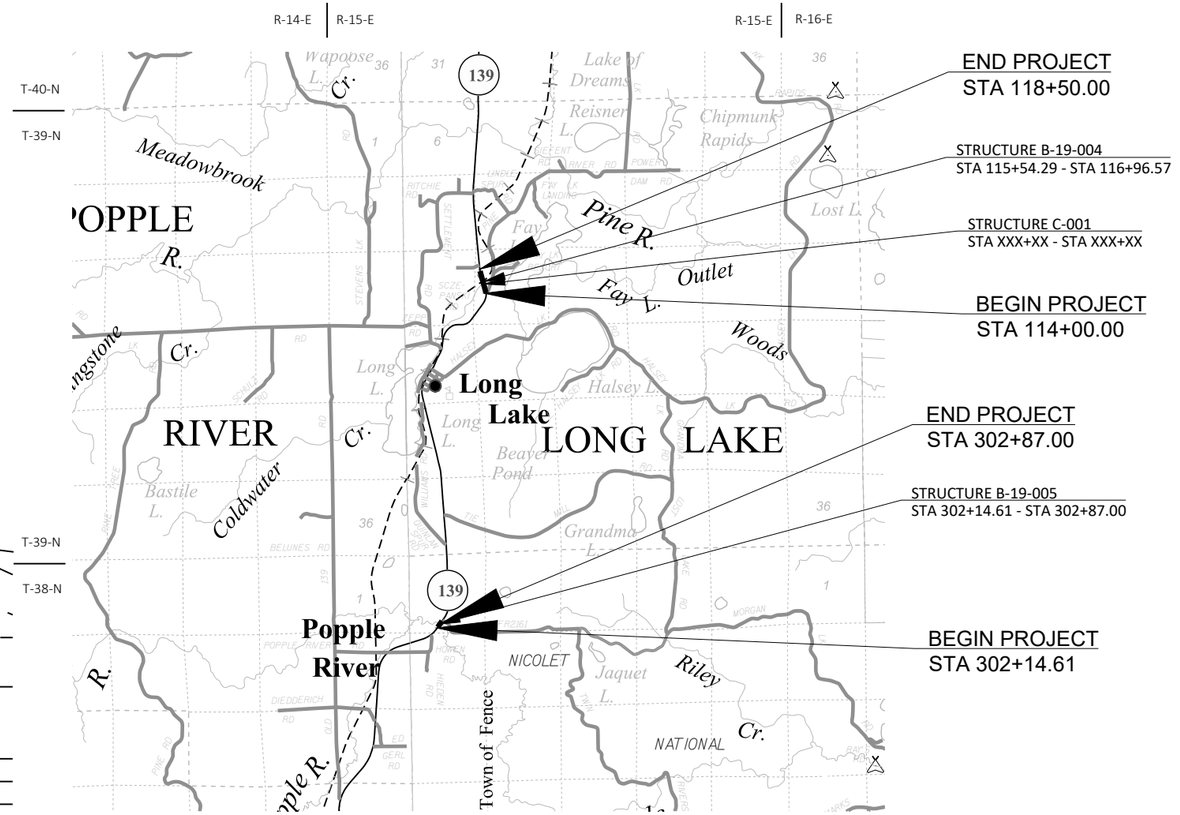
STH 139

FLORENCE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9110-09-60		

STATE PROJECT NUMBER

9110-09-60



LAYOUT

SCALE 0 2

TOTAL NET LENGTH OF CENTERLINE = 0.058 MILES

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

DESIGN DESIGNATION 9110-09-30

A.A.D.T.	2021	=	770
A.A.D.T.	2041	=	900
D.H.V.		=	18.4
D.D.		=	60/40
T.		=	18.4
DESIGN SPEED		=	60 MPH
ESALS		=	N/A

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

- GRADE LINE (T-39-N / T-38-N)
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

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

ORIGINAL PLANS PREPARED BY

OMNNI ASSOCIATES

DATE: _____ _____ (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	OMNNI ASSOCIATES
Designer	OMNNI ASSOCIATES
Project Manager	J. JEFFERSON
Regional Examiner	
Regional Supervisor	J. PETERS

APPROVED FOR THE DEPARTMENT

DATE: _____ _____ (Signature)

E

FILE NAME : F:\TR\JOBS\E2298A17\CIVIL 3D\SHEETSPLAN\91100960-010101-TI.DWG PLOT DATE : 9/20/2018 11:48 AM PLOT BY : MATT TOMSOVIC PLOT NAME :

GENERAL NOTES

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

CONSIDER DIMENSIONS GIVEN FOR EXISTING FEATURES AS APPROXIMATE AND MEASURE FEATURES IN THE FIELD FOR MATCHING PURPOSES.

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM COMMON EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 30 PERCENT. ALL FILL VOLUMES SHOWN ARE THE ACTUAL VOLUMES.

WHEN THE QUANTITY OF THE ITEM OF BASE OR ASPHALT PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

ALL DISTURBED AREAS, NOT OTHERWISE SURFACED ARE TO BE TOPSOILED, FERTILIZED, SEEDED AND COVERED WITH EROSION MAT.

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

SEED MIXTURE NO. 30 SHALL BE USED ON ALL DISTURBED AREAS.

DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES.

OTHER CONTACTS

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES
NORTHERN REGION HEADQUARTERS
107 SUTLIFF AVE
RHINELANDER, WI 54501
ATTN: JON SIMONSEN
TELEPHONE: 715-367-1936

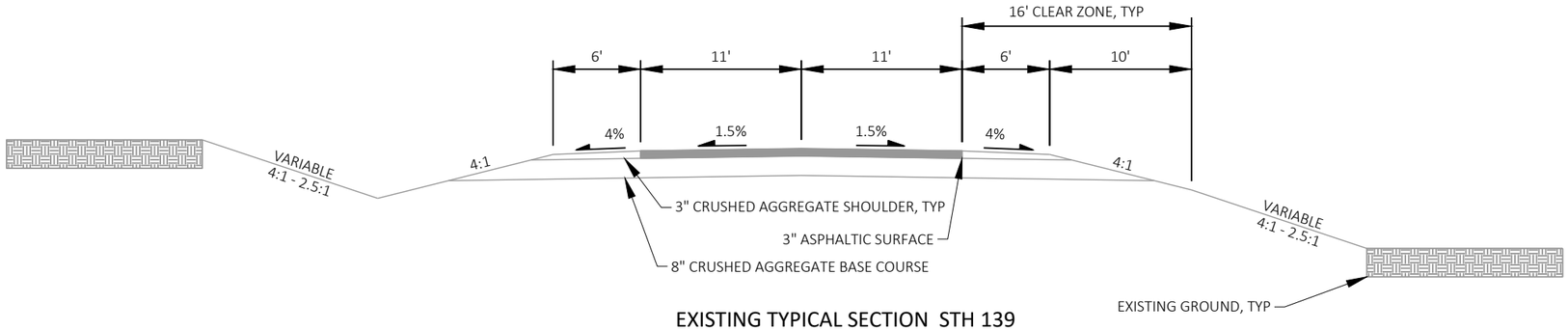
EROSION CONTROL NOTES

RUNOFF COEFFICIENT FOR THIS PROJECT: EXISTING PAVEMENT 0.95, EXISTING SLOPES 0.30, NEW PAVEMENT 0.95, NEW SLOPES 0.30.

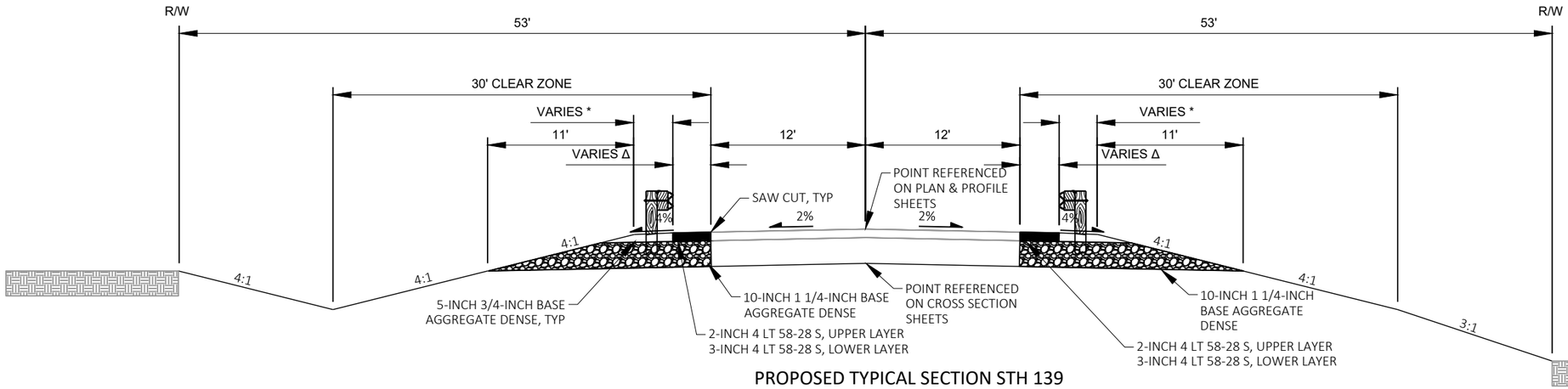
TOTAL PROJECT AREA = ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES =

THE CONTRACTOR SHALL NOTIFY DIGGER'S HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF DIGGER'S HOTLINE MUST BE CONTACTED SEPERATELY.

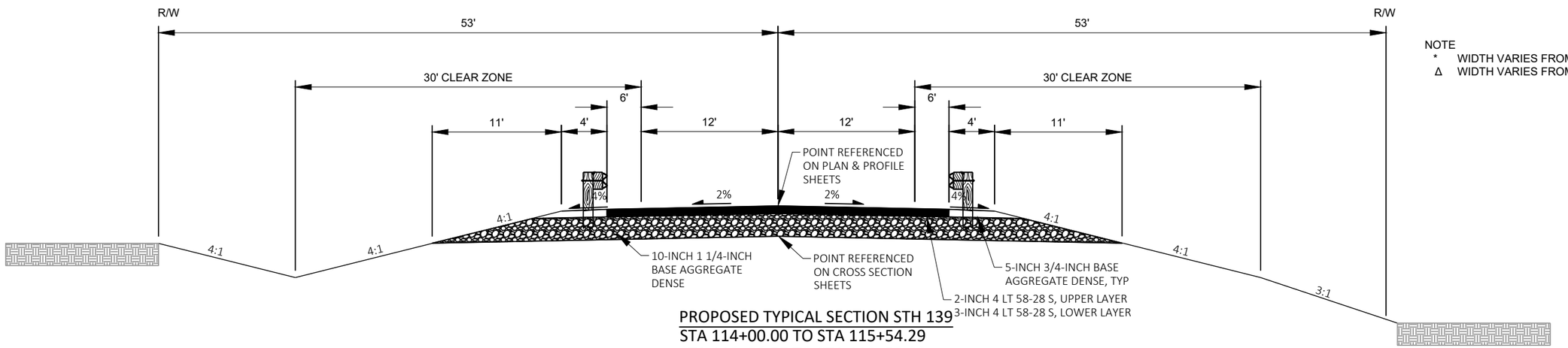
DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com



EXISTING TYPICAL SECTION STH 139
STA 113+41.63 TO 119+00.00



PROPOSED TYPICAL SECTION STH 139
STA 113+41.63 TO STA 114+00.00
STA 118+50.00 TO STA 119+00.00



NOTE
* WIDTH VARIES FROM 4' TO 7'
Δ WIDTH VARIES FROM 2.34' TO 5.24'

PROPOSED TYPICAL SECTION STH 139
STA 114+00.00 TO STA 115+54.29
STA 116+96.57 TO STA 118+50.00

PROJECT NO: 9110-02-60	HWY: STH 139	COUNTY: FLORENCE	PLAN: TYPICAL SECTION	SHEET	E

3

EARTHWORK - STH 139

Division	From/To Station	Location	205.0100 Common Excavation		Available Material (5)	Unexpanded Fill	Expanded Fill	Mass Ordinate +/- (14)	Waste	208.0100 Borrow
			Cut	EBS Excavation (3)			Factor 1.25			
Division 1										
	113+50/119+00	STH 139	1,264	0	1,264	462	577	687	687	0
Total Common Exc			1,264							

Notes:

(3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.

(4) Salvaged/Unusable Pavement Material

5) Available Material = Cut - Salvaged/Unusuable Pavement Material

(14) 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.

3

REMOVING SMALL PIPE CULVERTS

STATION	DIR	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH
CATEGORY 0010			
118+90	LT	STH 139	1
		PROJECT TOTAL	1

REMOVING GUARDRAIL

STATION	TO	STATION	LOCATION	DIR	204.0165 REMOVING GUARDRAIL LF
CATEGORY 0010					
113+65	-	115+52	STH 139	LT	185
113+75	-	115+58	STH 139	RT	185
116+92	-	118+15	STH 139	LT	125
117+00	-	118+20	STH 139	RT	125
			PROJECT TOTAL		620

3

BASE COURSE

STATION TO STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
CATEGORY 0010				
113+25 - 115+55	STH 139	70	620	4
116+90 - 119+00	STH 139	80	610	4
DRIVEWAY	STH 139	0	10	0
	PROJECT TOTALS	150	1,240	8

ASPHALTIC ITEMS

STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	REMARKS
CATEGORY 0010							
113+25	-	115+55	STH 139	50	120	80	
116+90	-	119+00	STH 139	50	120	80	
			PROJECT TOTAL	100	240	160	

CULVERT PIPES

STATION	DIR	LOCATION	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	522.1018 AEW FOR CULVERT PIPE STEEL 18-INCH EACH	650.6000 CONSTRUCTION STAKING CULVER PIPES EACH	STEEL THICKNESS (INCHES)
118+90	LT	STH 139	30	2	1	0.064
		TOTALS	30	2	1	

BEAM GUARD

STATION	TO	STAION	DIR	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
113+73	-	115+53	LT	STH 139	87.5	39.4	1
113+57	-	115+61	RT	STH 139	112.5	39.4	1
116+90	-	118+69	LT	STH 139	87.5	39.4	1
116+97	-	118+78	RT	STH 139	87.5	39.4	1
				TOTAL	**375**	**157.6**	**4**

LANDSCAPING ITEMS

STATION TO STATION			DIR	LOCATION	625.0500 SALVAGED TOPSOIL SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIX NO. 30 LB	630.0200 TEMP SEEDING LB
CATEGORY 0010									
113+25	-	115+55	LT	STH 139	450	50	0.29	8	6
113+25	-	115+55	RT	STH 139	790	90	0.50	14	11
117+00	-	119+00	LT	STH 139	360	40	0.22	6	5
117+00	-	119+00	RT	STH 139	480	50	0.30	9	6
				UNDISTRIBUTED	420	50	0.26	7	6
				PROJECT TOTALS	2,500	280	1.57	44	34

3

CONSTRUCTION STAKING

STATION TO STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
CATEGORY 0010					
114+00 - 115+55	STH 139	155	155	---	155
116+95 - 118+50	STH 139	155	155	---	155
UNDISTRIBUTED	STH 139	---	---	1	---
	PROJECT TOTALS	310	310	1	310

SAW CUTTING

STATION	TO	STATION	DIR	LOCATION	690.0150 SAWING ASPHALT LF
CATEGORY 0010					
113+50	-	114+50	R/L	STH 139	130
118+50	-	119+00	R/L	STH 139	115
		PROJECT TOTALS			245

LEGEND

△	MGS THRIE BEAM TRANSITION
MGS	MGS GUARDRAIL 3
MGS EAT	MGS GUARDRAIL TERMINAL EAT
X	CLEARING & GRUBBING

PI STA = 109+58.64
Y = 153961.143
X = 307709.523
DELTA = 37°26'52"
D = 3°49'11"
T = 508.42'
L = 980.38'
R = 1500.00'
PC STA = 104+50.22
PT STA = 114+30.60

C-19-1
7' X 7' CLEAR
CONCRETE BOX CULVERT
REPLACE CONCRETE ENDWALL

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
BM#1	113+89.54, 51.96 RT	60D SPIKE IN P.P. #N72-1469 LOCATED OFF THE SE CORNER OF THE STRUCTURE	1541.91
BM#2	115+58.76, 18.29 RT	EXISTING CHISELED "X" ON SOUTHEAST WINGWALL OF STRUCTURE	1542.01
BM#3	117+29.52, 55.51 RT	60D SPIKE IN P.P. #N72-4059 LOCATED OFF THE NE CORNER OF THE STRUCTURE	1546.43

CPCS 18-INCH 30 LF
STA 119+01.85, -29.12 L
INVERT: 1539.90
STA 118+73.44, -36.66 L
INVERT: 1539.12
(2) AEW REQUIRED

PI STA = 120+77.16
Y = 155024.654
X = 307259.059
DELTA = 18°48'09"
D = 3°49'11"
T = 248.36'
L = 492.25'
R = 1500.00'
PC STA = 118+28.80
PT STA = 123+21.05

N

NBN RR

B-19-004

STH 139

N22° 57' 21"W
398.20'

BM #1

BM #2

BM #3

WE ENERGIES

CENTURY LINK

DITCH FLOW LINE, TYP

REMOVE EXISTING CMP

SLOPE INTERCEPT, TYP

BEGIN CONSTRUCTION
STA 113+25.00
MATCH EXISTING
SAW CUT REQ'D

END CONSTRUCTION
STA 119+00.00
MATCH EXISTING
SAW CUT REQ'D

BEGIN PROJECT
STA 114+00.00
Y: 154400.999
X: 307522.877

END PROJECT
STA 118+50.00

VPI STA = 114+75.00
VPI ELEV = 1542.60
g1 = -1.65%
g2 = -0.45%
L = 150.00
K = 125

VPI STA = 117+50.00
VPI ELEV = 1541.36
g1 = -0.45%
g2 = 0.06%
L = 100.00
K = 197

PROPOSED PROFILE

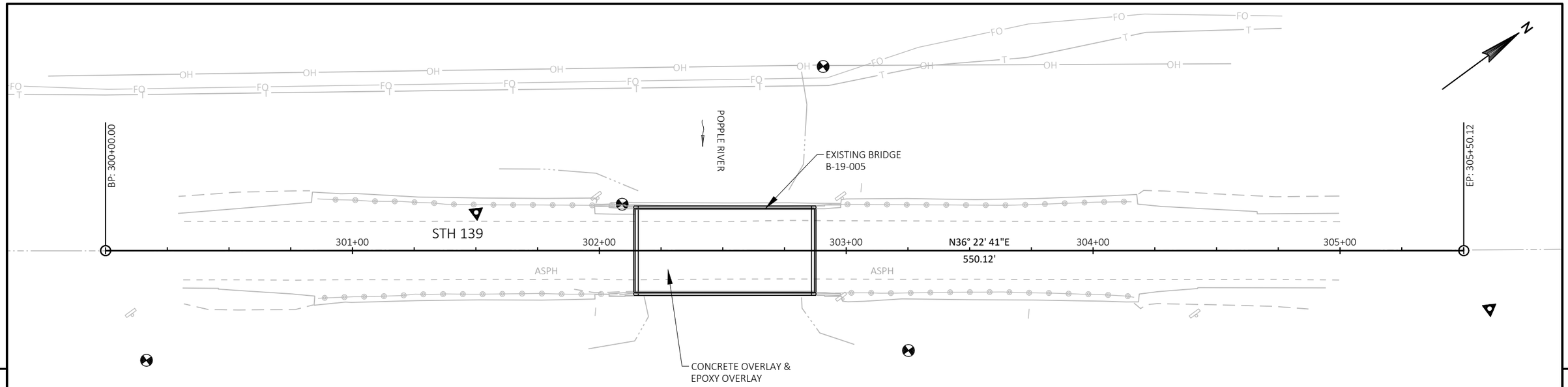
EXISTING PROFILE

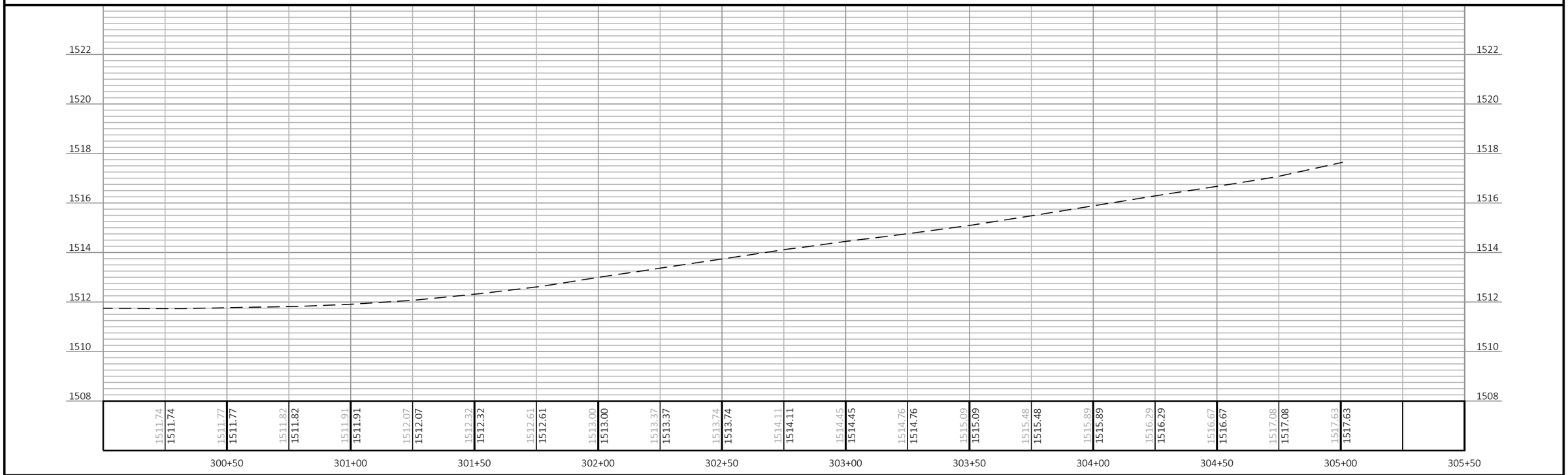
RT DITCH PROFILE

LT DITCH PROFILE

STA 116+25
STRUCTURE B-19-004
SINGLE SPAN CONCRETE GIRDER
34' CLEAR ROADWAY WIDTH (EXISTING)
36' CLEAR ROADWAY WIDTH (PROPOSED)
CONCRETE DECK REPLACEMENT
SEE BRIDGE DRAWINGS 1-XX

PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	PLAN AND PROFILE: STH 139	SHEET E





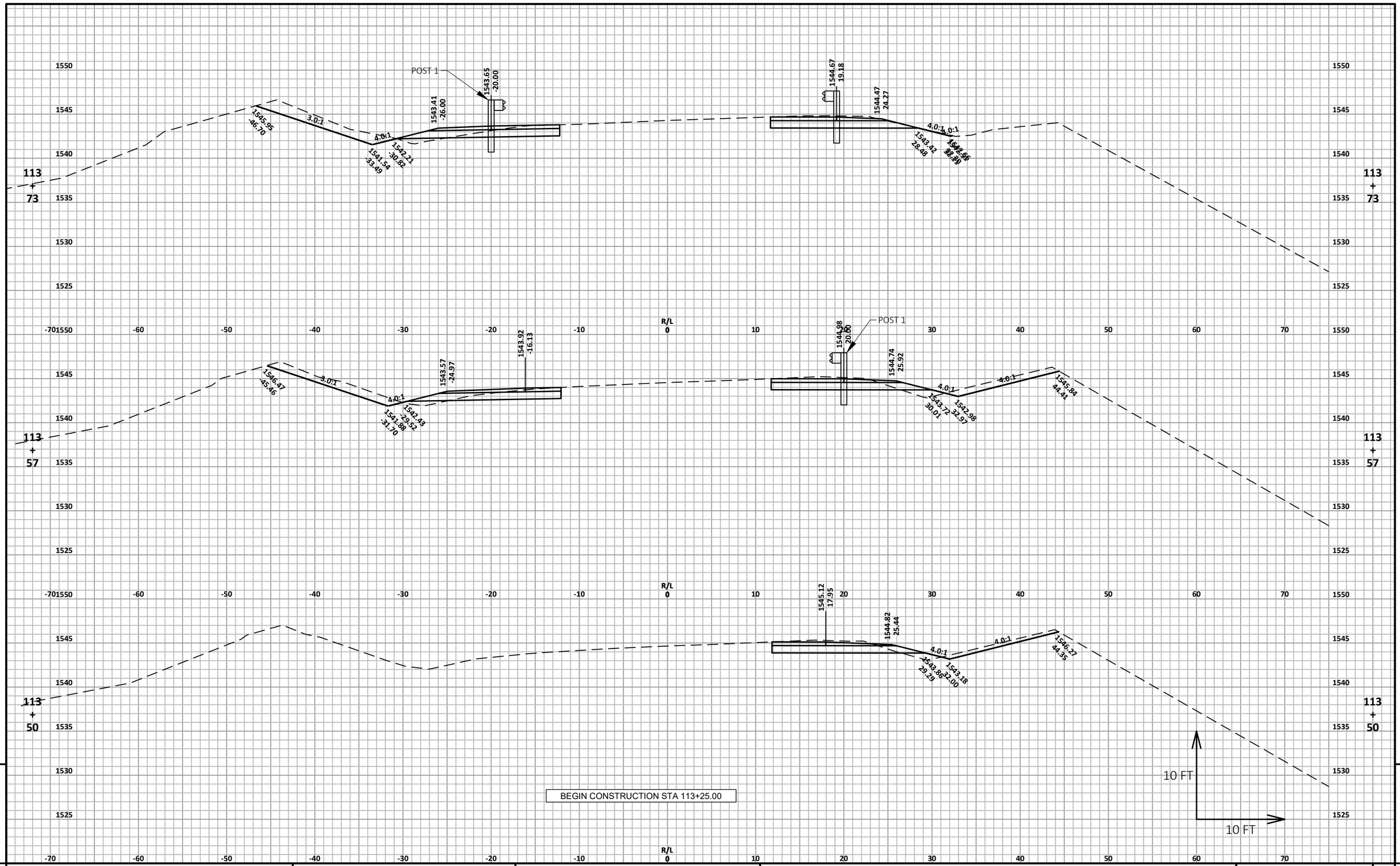
PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	PLAN AND PROFILE: STH 139	SHEET E

FILE NAME : F:\TR\JOBS\E2298A17\CIVIL 3D\SHEETSPLAN\91100960-050101-PP.DWG
LAYOUT NAME - 91100960-050102-pp

PLOT DATE : 12/10/2018 6:21 AM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:40 FT

EARTHWORK - STH 139

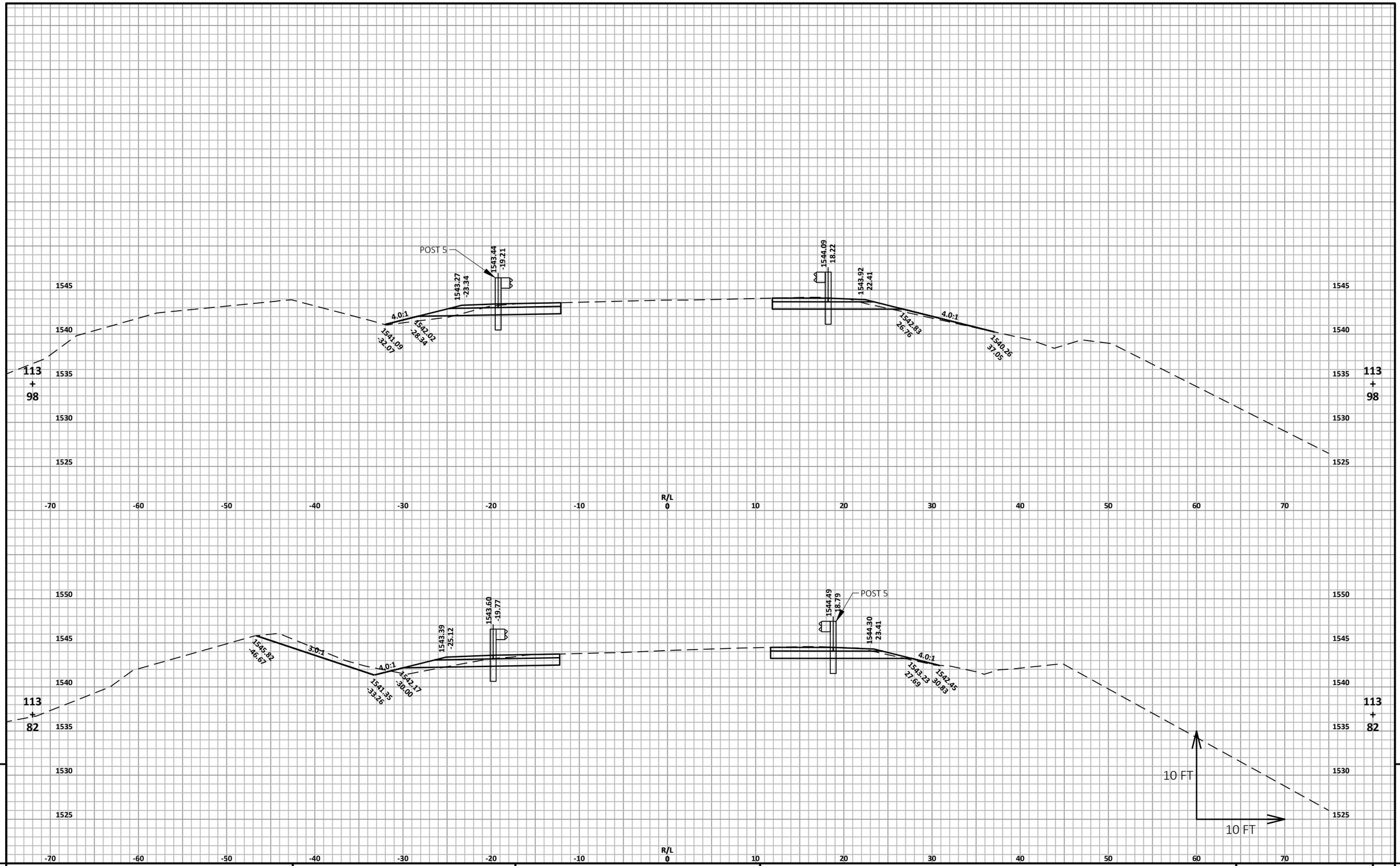
STATION	AREA (SF)		Incremental Vol (CY) (Unadjusted		Cumulative Vol (CY)		
	Cut	Fill	Cut Note 1	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.25	Mass Ordinate Note 8
113+50	47.59	1.78	0	0	0	0	0
113+56.84	70.58	4.14	15	1	15	1	14
113+72.72	75.28	1.75	43	2	58	3	55
113+81.54	67.44	2.76	23	1	81	4	77
113+97.99	55.57	4.06	37	2	119	7	112
114+06.28	56.36	4.23	17	1	136	8	128
114+23.22	53.53	9.09	34	4	170	13	157
114+50	49.28	23.21	51	16	221	33	188
115+00	43.52	38.49	86	57	307	105	202
115+50	48.78	171.48	85	194	393	348	45
STRUCTURE B-19-004							
117+00	53.94	25.12	300	140	692	522	170
117+50	90.85	1.46	134	25	826	553	273
118+00	83.71	0.82	162	2	988	556	432
118+19.83	87.86	0.00	63	0	1,051	556	495
118+27.39	84.19	0.23	24	0	1,075	556	519
118+44.65	81.59	4.13	53	1	1,128	558	570
118+52.61	80.29	6.06	24	2	1,152	560	592
118+69.33	70.80	14.32	47	6	1,199	568	631
118+77.88	72.52	6.33	23	3	1,221	572	650
118+88.2	64.35	5.46	26	2	1,248	575	673
119+00	12.31	4.56	17	2	1,264	577	687



PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	CROSS SECTIONS: STH 139	SHEET E

FILE NAME : F:\TR\JOBS\E2298A17\CIVIL 3D\SHEETSPLAN\91100960-090201-XS.DWG
LAYOUT NAME - 91100960-090201-xs

PLOT DATE : 11/26/2018 3:00 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

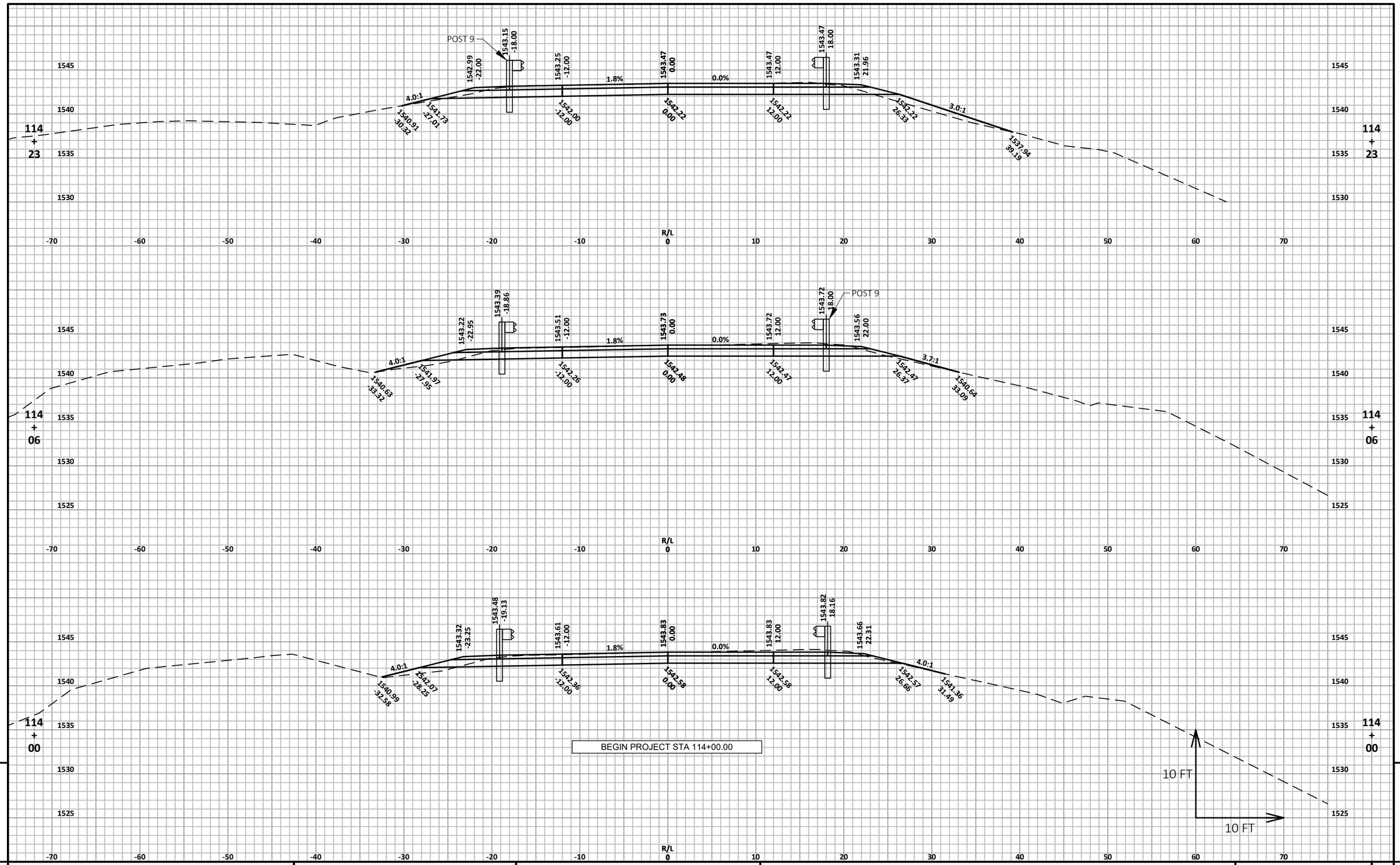


PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	CROSS SECTIONS: STH 139	SHEET	E

FILE NAME : F:\TR\JOBS\E2298A17\CIVIL 3D\SHEETSPLAN\91100960-090201-XS.DWG
LAYOUT NAME - 91100960-090202-xs

PLOT DATE : 11/26/2018 3:00 PM PLOT BY : MATT TOMSOVIC PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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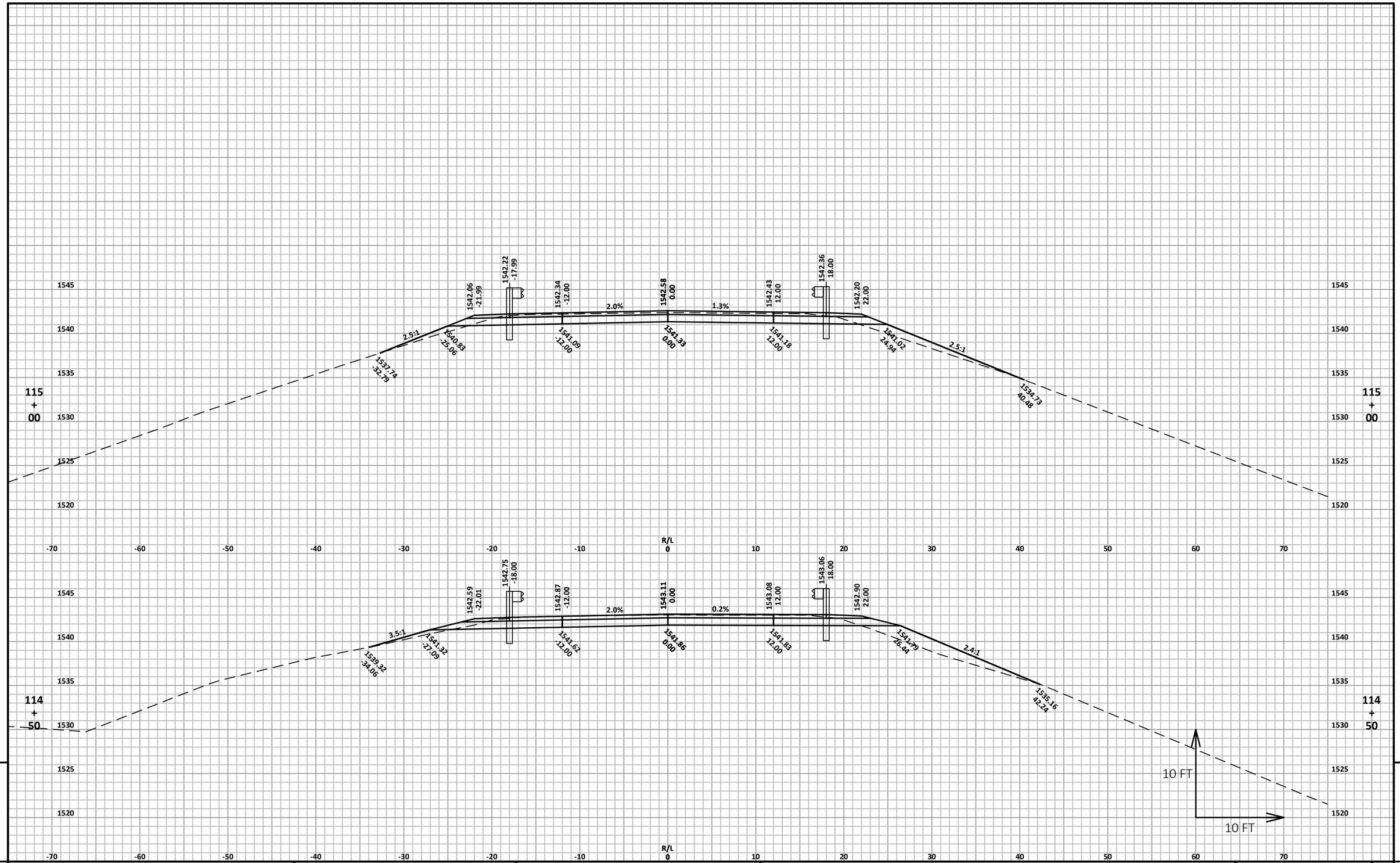
PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	CROSS SECTIONS: STH 139	SHEET	E

FILE NAME : F:\TR\JOBS\E2298A17\CIVIL 3D\SHEETSPLAN\91100960-090201-XS.DWG
LAYOUT NAME - 91100960-090203-xs

PLOT DATE : 11/26/2018 3:00 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



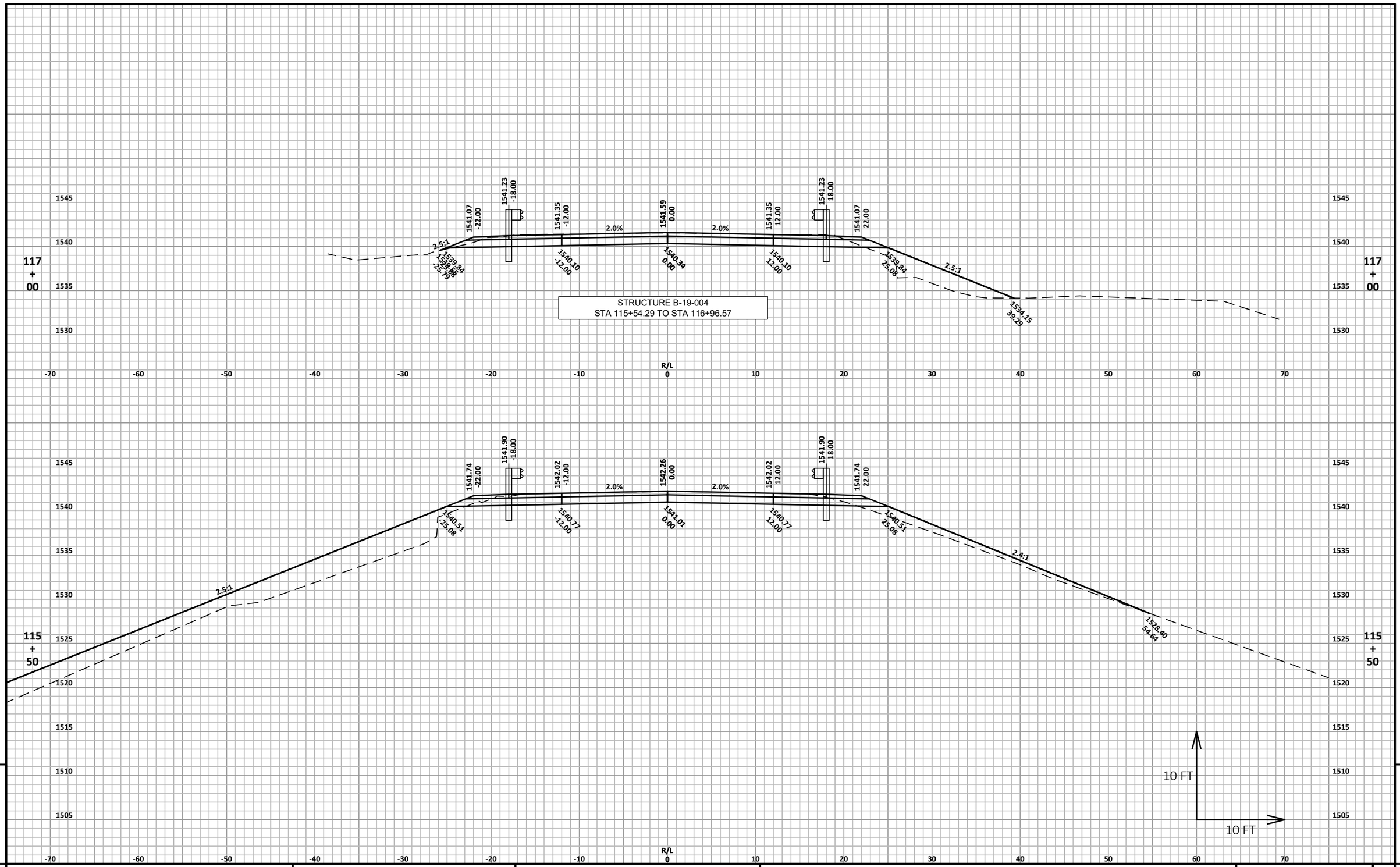
9

PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	CROSS SECTIONS: STH 139	SHEET	E

FILE NAME : F:\TR\JOBS\E2298A17\CIVIL 3D\SHEETSPLAN\91100960-090201-XS.DWG
LAYOUT NAME - 91100960-090204-xs

PLOT DATE : 12/10/2018 6:25 AM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

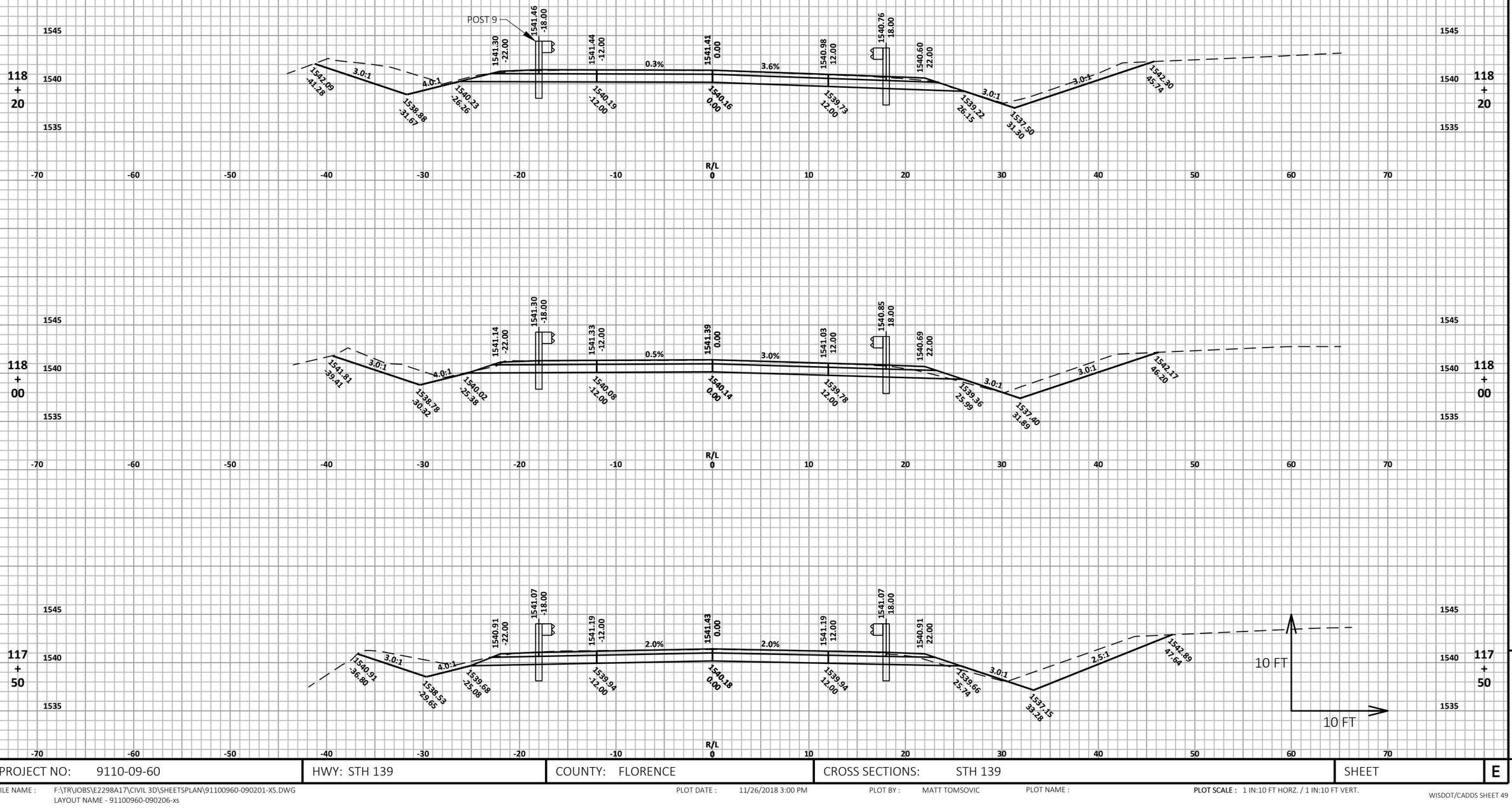


PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	CROSS SECTIONS: STH 139	SHEET	E

FILE NAME : F:\TR\JOBS\E2298A17\CIVIL 3D\SHEETSPLAN\91100960-090201-XS.DWG
LAYOUT NAME - 91100960-090205-xs

PLOT DATE : 11/26/2018 3:00 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

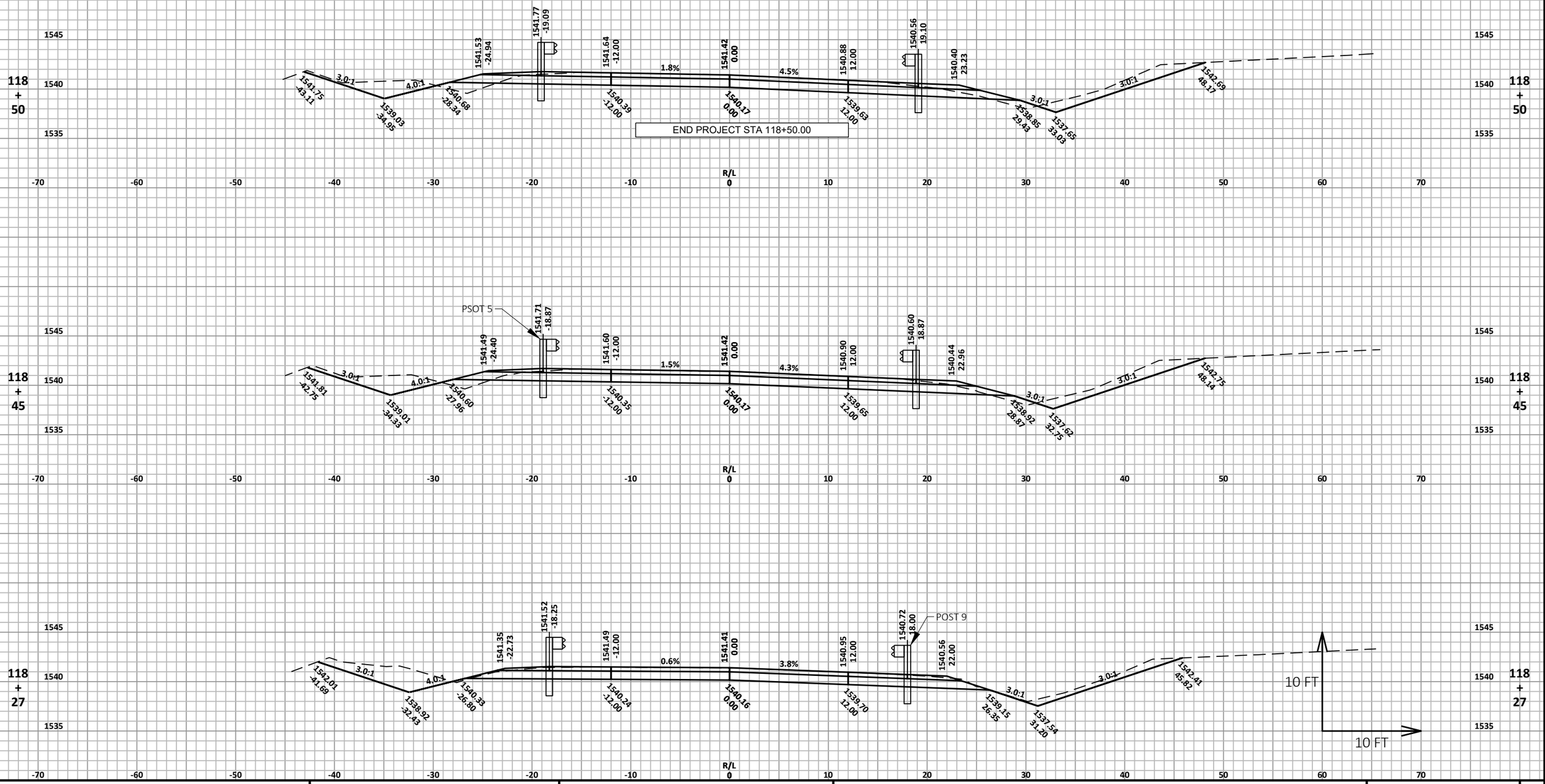
WISDOT/CADDS SHEET 49



PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	CROSS SECTIONS: STH 139	SHEET	E

FILE NAME : F:\TR\JOBS\E2298A17\CIVIL 3D\SHEETSPLAN\91100960-090201-XS.DWG
LAYOUT NAME - 91100960-090206-xs

PLOT DATE : 11/26/2018 3:00 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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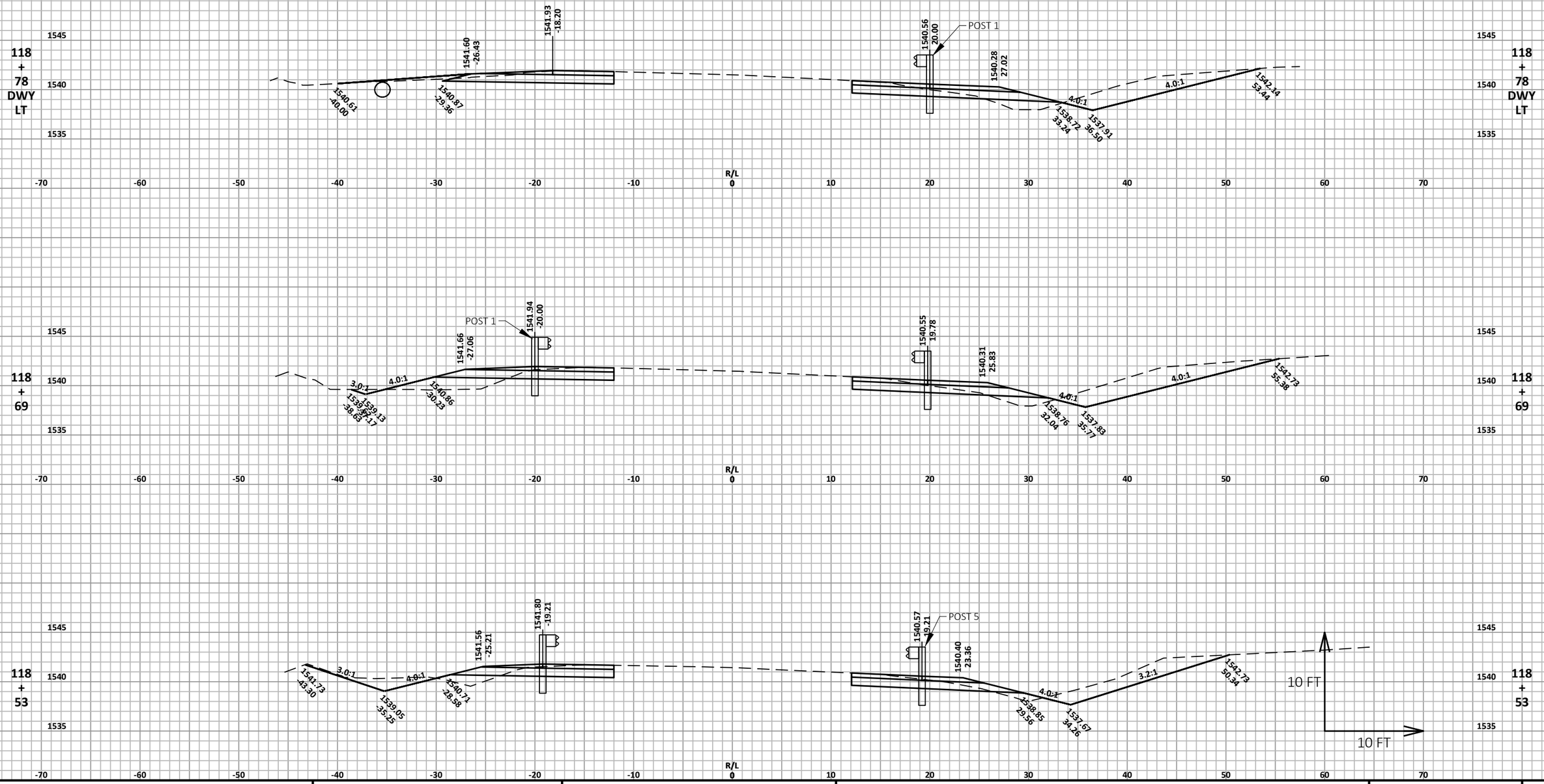
PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	CROSS SECTIONS: STH 139	SHEET	E

FILE NAME : F:\TR\JOBS\E2298A17\CIVIL 3D\SHEETSPLAN\91100960-090201-XS.DWG
LAYOUT NAME - 91100960-090207-xs

PLOT DATE : 11/26/2018 3:00 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	CROSS SECTIONS: STH 139	SHEET	E

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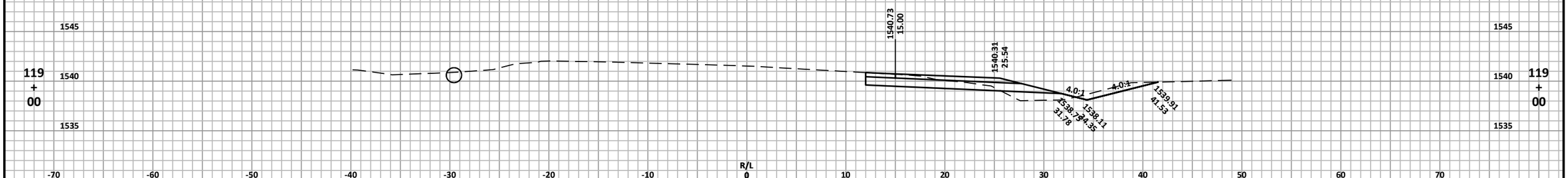
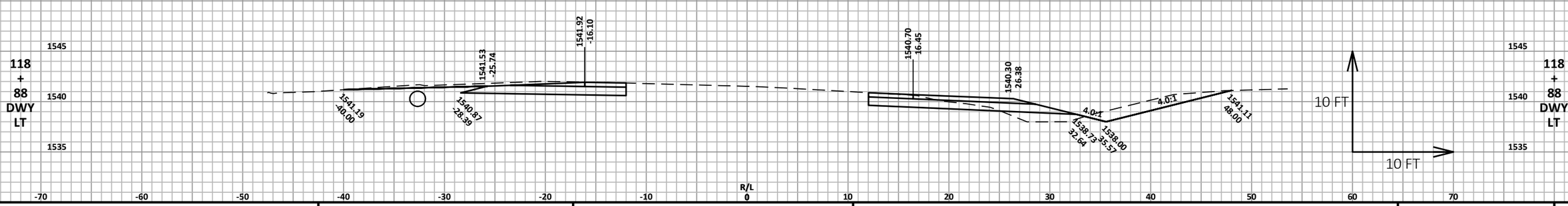
LAYOUT NAME - 91100960-090208-xs

PLOT DATE : 11/26/2018 3:00 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

END CONSTRUCTION STA 119+00.00





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9

PROJECT NO: 9110-09-60	HWY: STH 139	COUNTY: FLORENCE	CROSS SECTIONS: STH 139	SHEET	E

FILE NAME : F:\TR\JOBS\E2298A17\CIVIL 3D\SHEETSPLAN\91100960-090201-XS.DWG
LAYOUT NAME - 91100960-090209-xs

PLOT DATE : 11/26/2018 3:00 PM PLOT BY : MATT TOMSOVIC PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.