SUP

DECEMBER 2019

PROJECT ID: **1610-08-74**

WITH: 1610-08-76, 1610-11-73

COUNTY: **ASHLAND**

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 = 448





STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1610-08-74	WISC 2019754	1
1610-08-76	WISC 2019755	1
1610-11-73	WISC 2019756	1

PARK FALLS - MELLEN
MORSE ROAD - CAYUGA ROAD

STH 13

ASHLAND COUNTY

STATE PROJECT NUMBER: **1610-08-74**

PARK FALLS - MELLEN
CAYUGA ROAD - JEFFERSON AVE

STH 13

ASHLAND COUNTY

STATE PROJECT NUMBER: **1610-08-76**

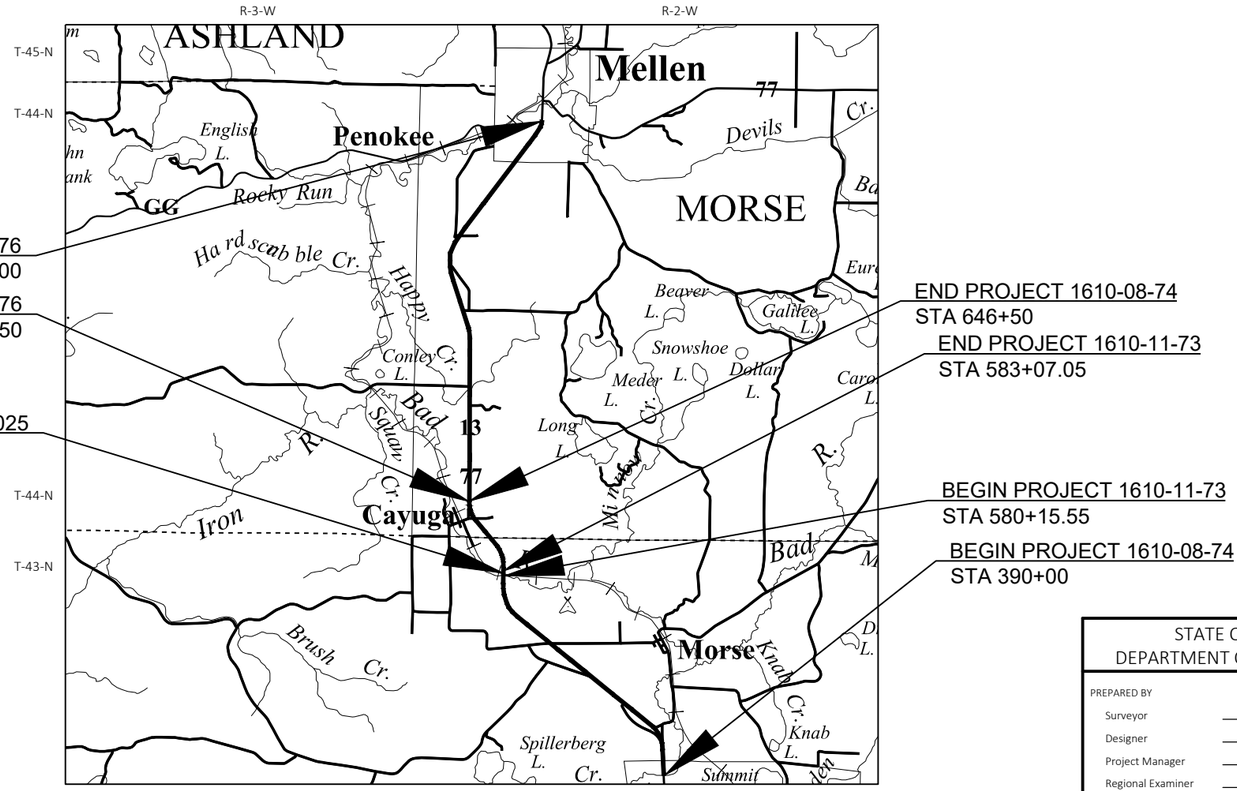
PARK FALLS - MELLEN
SOO LINE RAILROAD BRIDGE B-02-0025

STH 13

ASHLAND COUNTY

STATE PROJECT NUMBER: **1610-11-73**

DESIGN DESIGNATION			1610-08-74	DESIGN DESIGNATION			1610-08-76
A.A.D.T.	2015	=	1300	A.A.D.T.	2015	=	1200
A.A.D.T.	2040	=	1600	A.A.D.T.	2040	=	1400
D.H.V.		=	196	D.H.V.		=	196
D.D.		=	60/40	D.D.		=	60/40
T.		=	23.8%	T.		=	30.6%
DESIGN SPEED		=	55 MPH	DESIGN SPEED		=	55 MPH
ESALS		=	1,600,000	ESALS		=	1,600,000



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 5.31

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, ASHLAND 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.

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	300'EB'	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	QUEST, LLC
Designer	TRAVIS JENSEN
Project Manager	MATT DICKENSON
Regional Examiner	TOU YANG
Regional Supervisor	JEFF OLSON

APPROVED FOR THE DEPARTMENT

DATE: 07/24/2019 Matthew J Dickenson (Signature)

E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_TI.DWG PLOT DATE : 7/16/2019 12:48 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

GENERAL NOTES

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

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

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

THE LOCATION OF DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

THE LOCATIONS OF UTILITY FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE PRIOR TO THE START OF WORK.

CURVE DATA IS BASED ON THE ARC DEFINITION.

THE EXACT LOCATION OF EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

NO EQUIPMENT OR MATERIALS SHALL BE STORED IN WETLAND AREAS.

PRIOR TO THE PLACEMENT OF GUARDRAIL, THE BASE AGGREGATE SHOULDERS SHALL BE CONSTRUCTED, SHAPED AND COMPACTED UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

PAVEMENT QUANTITIES ARE BASED ON 112 LBS/SY COMPACTED 1" THICK.

COMMUNICATIONS - UTILITIES

CENTURY LINK
COMMUNICATION LINES
20 S WILSON AVE
RICE LAKE, WI 54859
MONTY PARKER
MONTY.PARKER@CENTURYLINK.COM
715-234-5528

XCEL ENERGY
GAS/PETRO/ELECTRIC/TRANSMISION
1414 W HAMILTON AVENUE
EAU CLAIRE, WI 54702
CORISSA SEELY
CORISSA.E.SEELY@XCELENERGY.COM
715-737-4097

BAYFIELD ELECTRIC COOP
ELECTRICAL FACILITIES
PO BOX 68
IRON RIVER, WI 54847
GARY TARASEWICZ
GARY.TARASEWICS@BAYFIELDELECTRIC.COM
715-372-4287

PACKERLAND BROADBAND
COMMUNICATION LINES
105 KENT ST
IRON MOUNTAIN, MI 49801
AMDREW HEIGLE
ANDY.HEIGLE@PACKERLANDBROADBAND.COM
906-221-7536

MELLEN MUNICIPAL WATER UTILITIES
WATER FACILITIES
PO BOX 706
MELLEN, WI 54546
BECKY SCRIBNER
SCRIBNERB@CENTURYTEL.NET
715-274-2136

PRICE ELECTRIC COOPERATIVE
ELECTRICAL FACILITIES
PO BOX 110
DULUTH, MN 55802
BEN ORYSEN
BORYSEN@PRICE-ELECTRIC.COM
715-339-2155

COMMUNICATIONS - NW REGION

WISDNR NORTHERN REGION
810 WEST MAPLE STREET
SPOONER, WI 54801
SHAWN HASELEU
ENV. ANALYSIS AND REVIEW SPECIALIST
SHAWN.HASELEU@WISCONSIN.GOV
715-635-4228

WISDOT NW REGION
1701 N 4TH STREET
SUPERIOR, WI 54880
MATT DICKENSON, PROJECT MANAGER
MATTHEW.DICKENSON@DOT.WI.GOV
715-395-3022

COMMUNICATIONS - RAILROAD

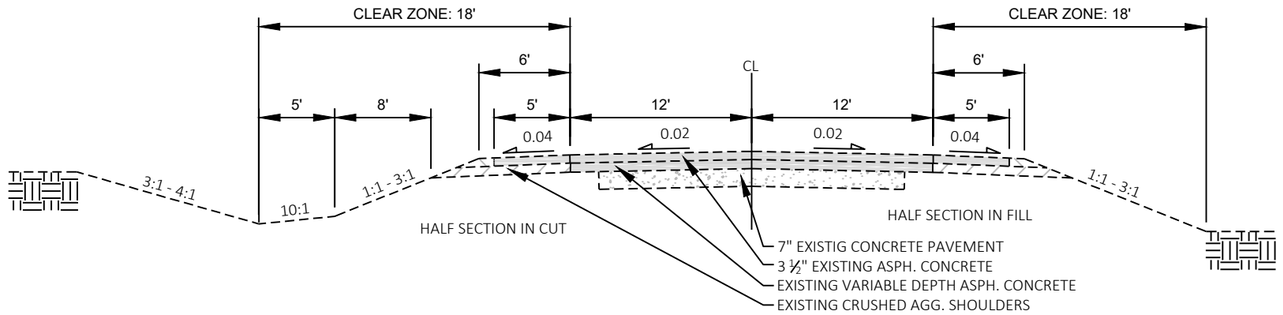
WISCONSIN CENTRAL LTD (CN)
RAILROAD
1625 DEPOT SCREET
STEVENS POINT, WI 54481
JACKIE MACEWICZ
JACKIE.MACEWICZ@CN.CA
715-345-2503

DIGGERS HOTLINE

Dial 811 or (800)242-8511

www.DiggersHotline.com

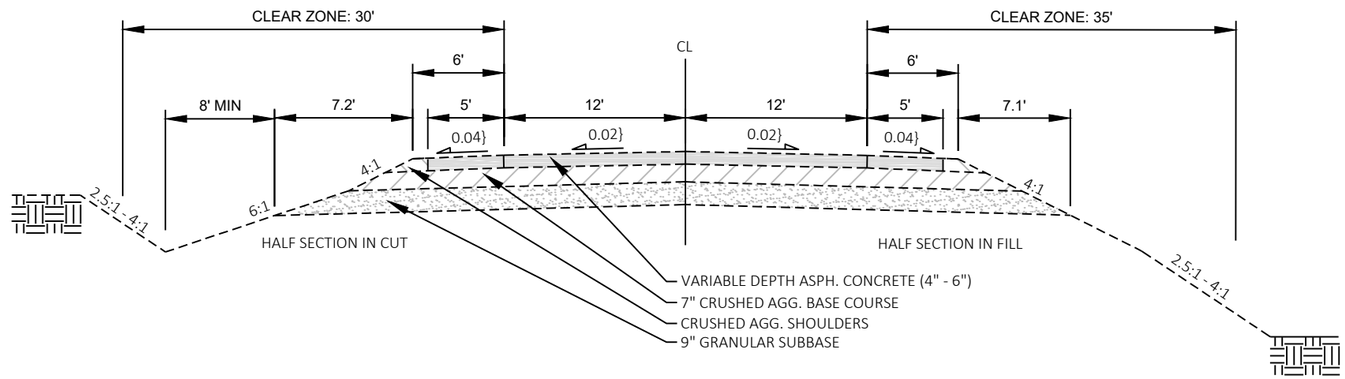
WISCONSIN CENTRAL LTD (CN) IS NOT PART OF DIGGERS HOTLINE. CALL CN CALL BEFORE YOU DIG LINE AT 743-783-4533.



TYPICAL EXISTING SECTION STH 13

1610-08-74
STA 391+00 TO STA 565+55.76
STA 604+44.55 TO STA 646+50

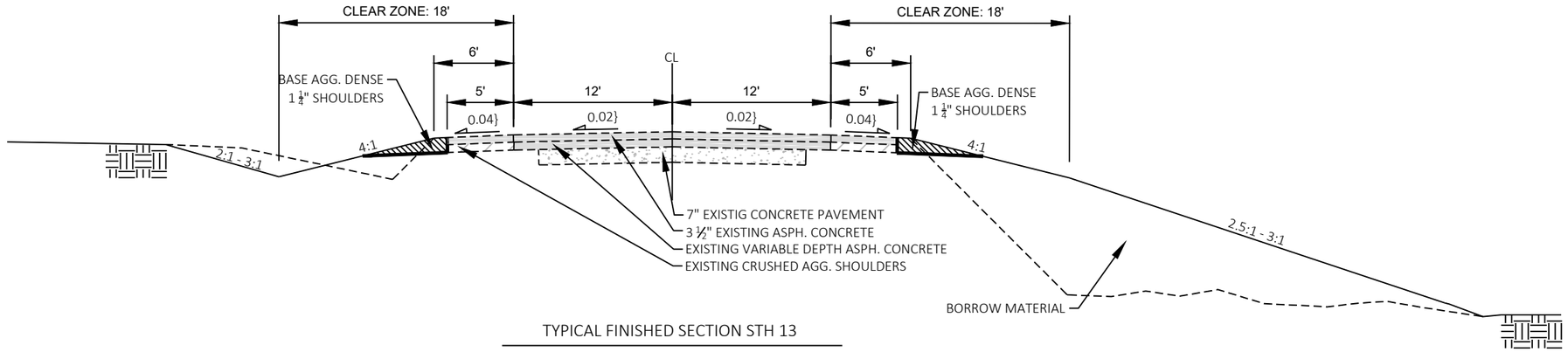
1610-08-76
STA 646+50 TO STA 927+00



TYPICAL EXISTING SECTION STH 13

1610-08-74
STA 565+55.76 TO STA 532+97.33
STA 535+07.67 TO STA 604+44.55

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	TYPICAL SECTIONS	SHEET 3	E



TYPICAL FINISHED SECTION STH 13

HALF SECTION IN CUT

1610-08-74

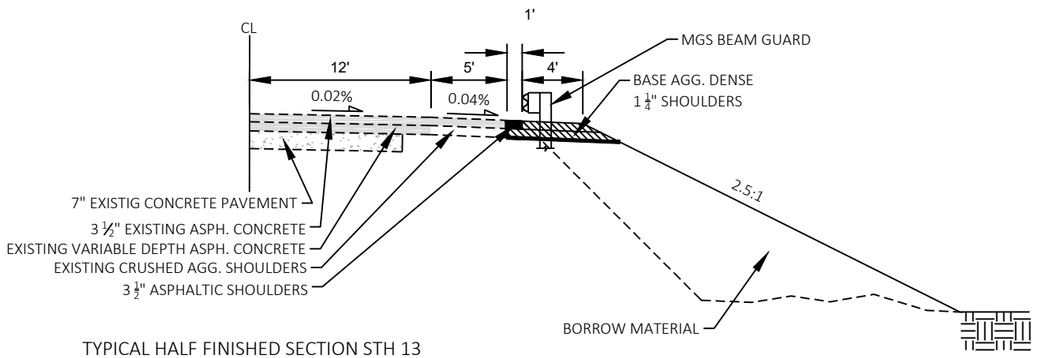
STA 409+00 - 414+00 (L & R)
STA 417+00 - 424+00 (L)
STA 431+00 - 448+00 (L & R)
STA 455+23 - 463+00 (L & R)
STA 468+00 - 481+26 (L & R)
STA 481+26 - 483+00 (L)
STA 497+50 - 511+23 (L & R)
STA 524+00 - 533+28 (L & R)
STA 550+00 - 552+24 (R)
STA 552+24 - 560+00 (L & R)
STA 560+00 - 565+00 (L)
STA 611+00 - 617+00 (L & R)
STA 632+00 - 636+00 (R)
STA 636+00 - 638+00 (L & R)
STA 638+00 - 641+50 (L)

1610-08-76

STA 409+00 - 414+00 (L & R)
STA 667+00 - 679+00 (L & R)
STA 693+30 - 696+23 (L & R)
STA 696+23 - 698+00 (L)
STA 710+60 - 717+50 (L & R)
STA 717+50 - 720+00 (L)
STA 720+00 - 722+00 (R)
STA 731+00 - 736+00 (L & R)
STA 736+00 - 738+00 (L)
STA 763+50 - 764+49 (L)
STA 764+49 - 768+00 (L & R)
STA 784+00 - 791+00 (L & R)
STA 798+07 - 799+82 (L & R)
STA 804+00 - 807+00 (L & R)
STA 807+00 - 808+10 (L)
STA 811+83 - 826+30 (L)
STA 830+50 - 837+00 (L & R)
STA 845+20 - 853+00 (L & R)
STA 859+50 - 872+00 (L)
STA 884+00 - 885+69 (L)
STA 885+69 - 888+10 (L & R)
STA 888+10 - 890+00 (L)
STA 895+50 - 902+00 (L & R)
STA 917+50 - 924+22 (L & R)

HALF SECTION IN FILL

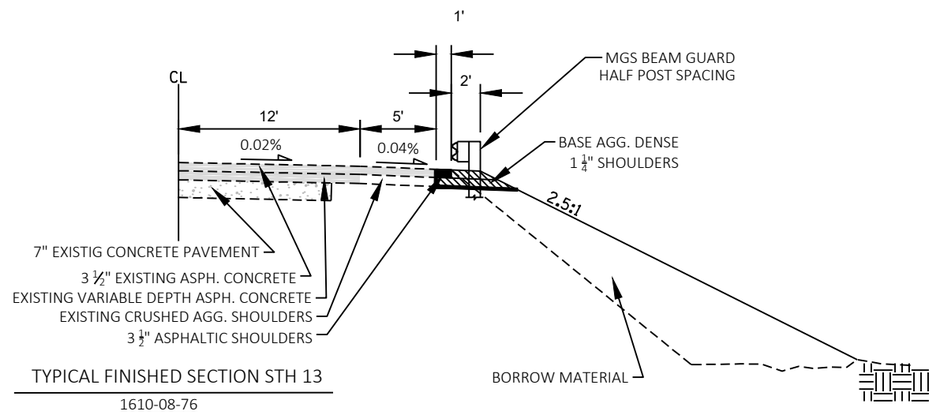
EXCEPTIONS AS SHOWN BELOW



TYPICAL HALF FINISHED SECTION STH 13

1610-08-74

STA 438+50 - 446+00 (L)
STA 470+50 - 480+00 (L)



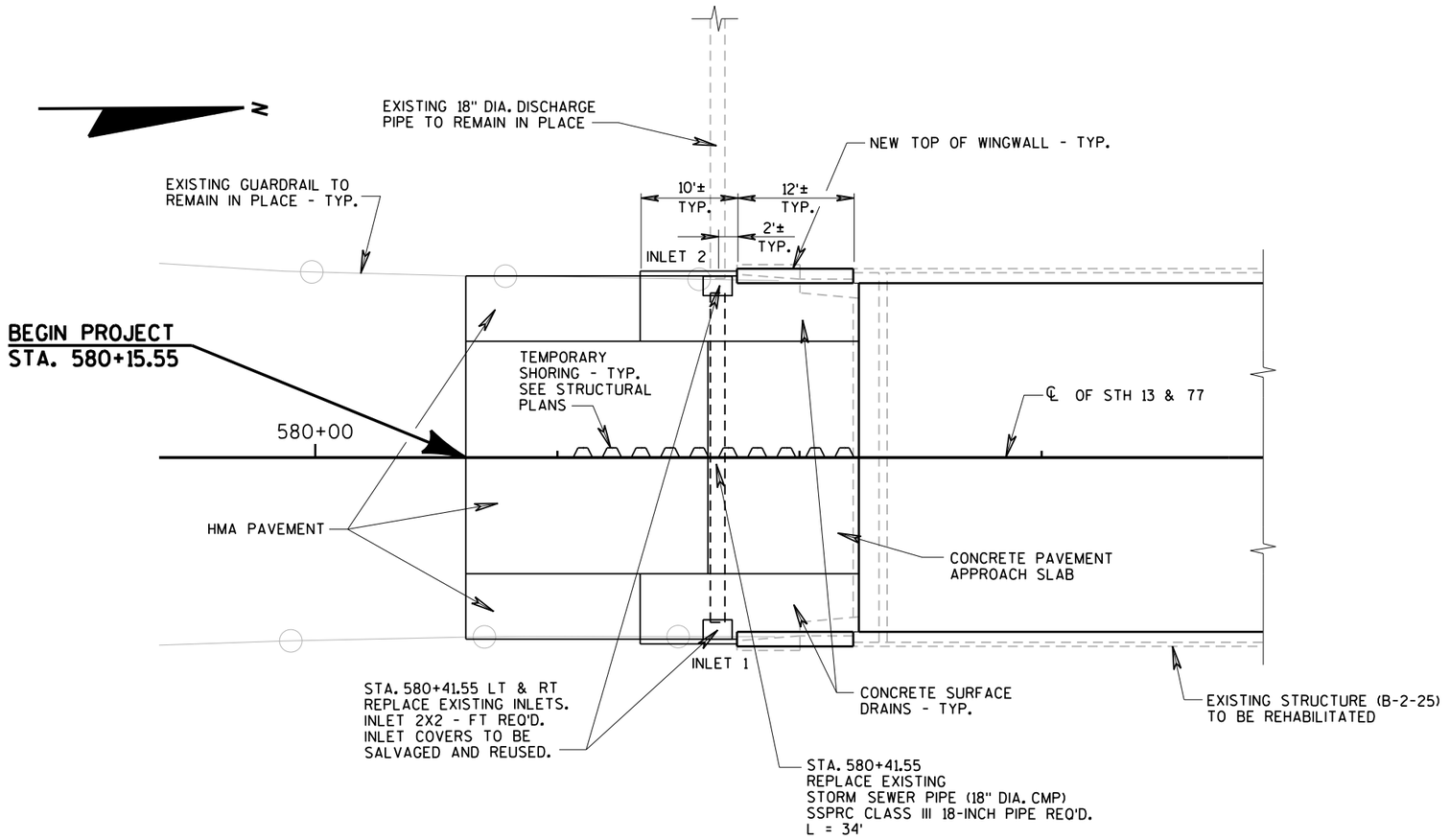
TYPICAL FINISHED SECTION STH 13

1610-08-76

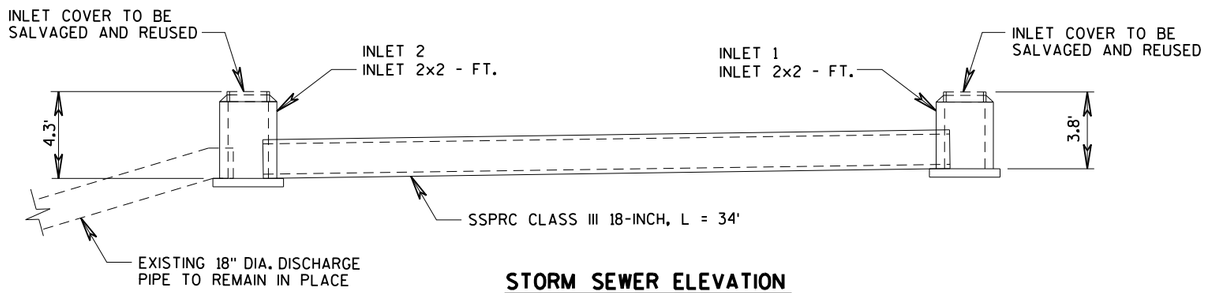
STA 717+00 - 721+00 (R)
STA 804+10 - 808+00 (L)
STA 813+00 - 826+00 (L)

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	TYPICAL SECTIONS	SHEET 4	E

2



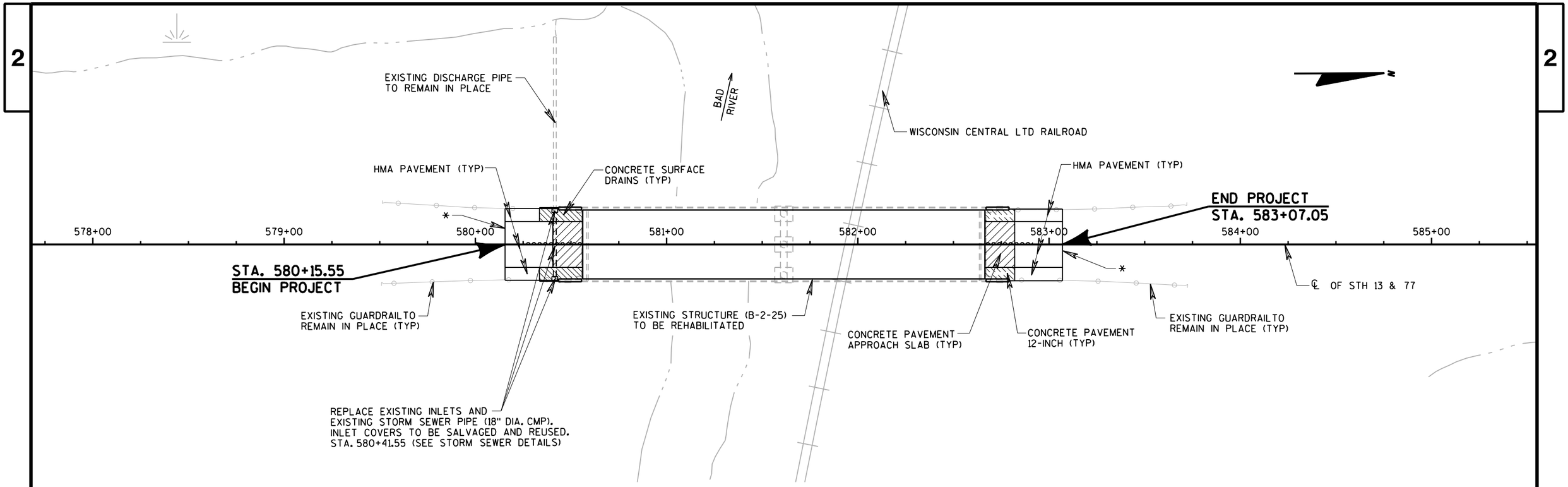
STORM SEWER DETAIL



STORM SEWER ELEVATION

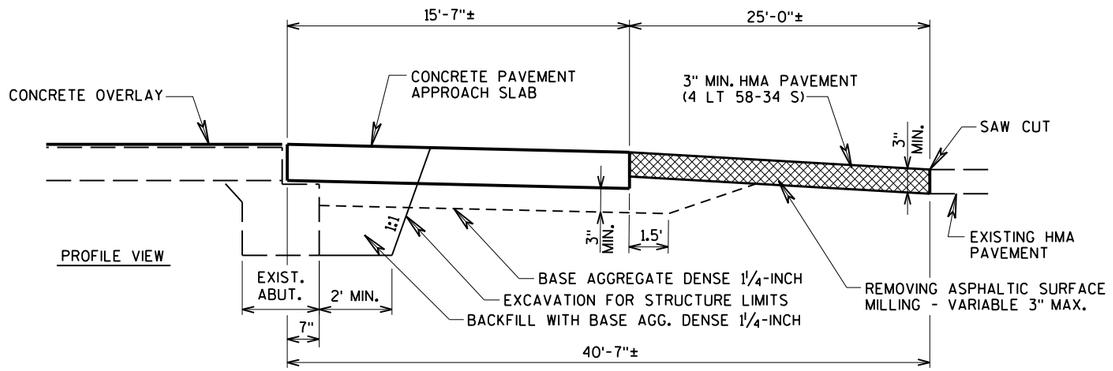
(LOOKING NORTH)

PROJECT NO: 1610-11-73	HWY: STH 13 & 77	COUNTY: ASHLAND	CONSTRUCTION DETAILS	SHEET 5



APPROACH SLAB DETAIL

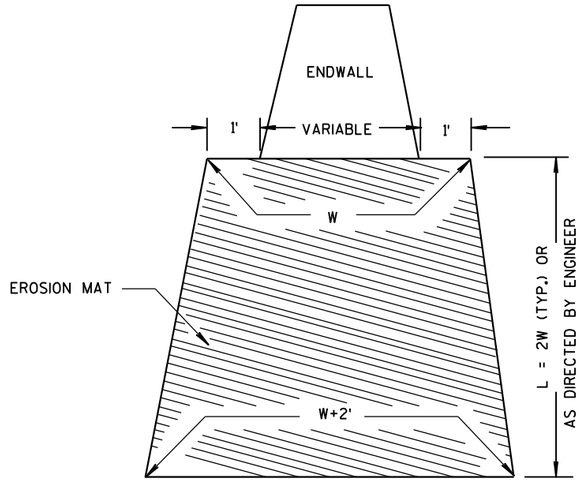
*SAW CUT REQ'D.



APPROACH REPLACEMENT DETAIL

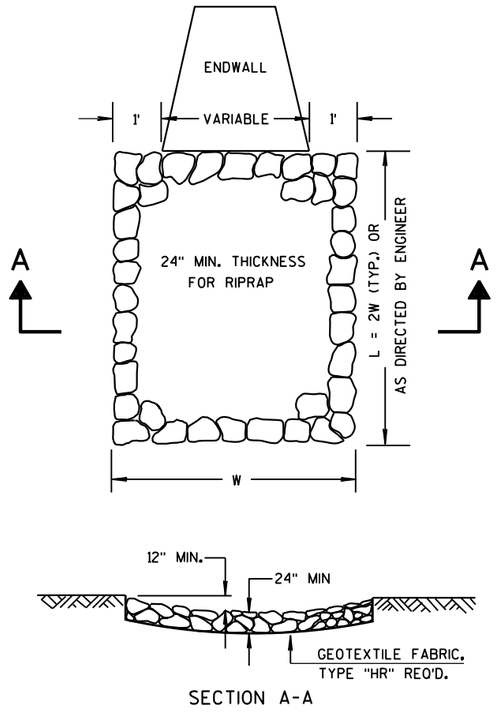
PROJECT NO: 1610-11-73	HWY: STH 13 & 77	COUNTY: ASHLAND	APPROACH DETAILS - B-2-25	SHEET

U:\42-1087.00 - Ashland Co. STH 13 and 77 over the Soo Line RR Bridge Rehab\Roadway\421087_appr.dgn 7/11/2019 $PLOT NA PENTABLE:Wisdot_shd.tbl walderak WISDOT/CADDS SHEET 42



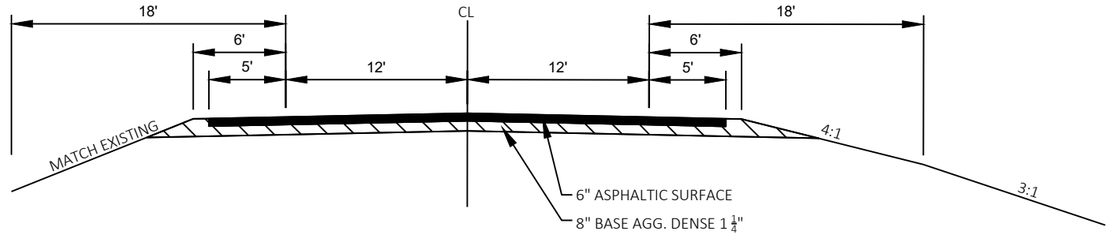
EROSION MAT TREATMENT AT CULVERTS

LOCATIONS SHOWN ON PLANS



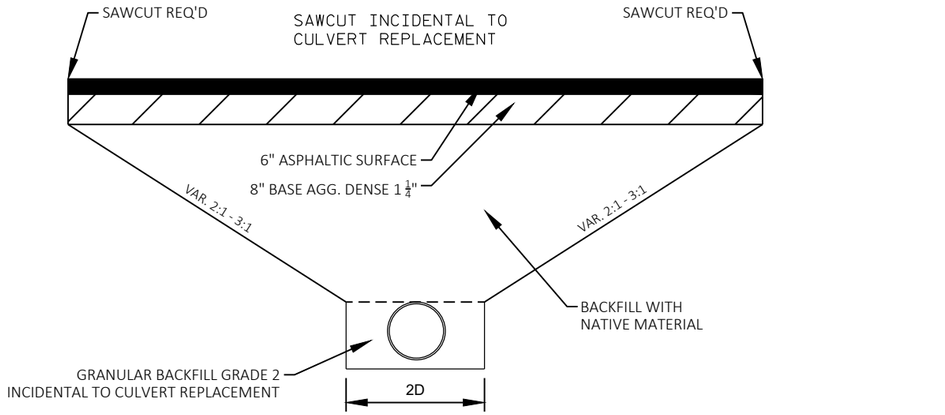
HEAVY RIPRAP TREATMENT AT CULVERTS

LOCATIONS SHOWN ON PLANS



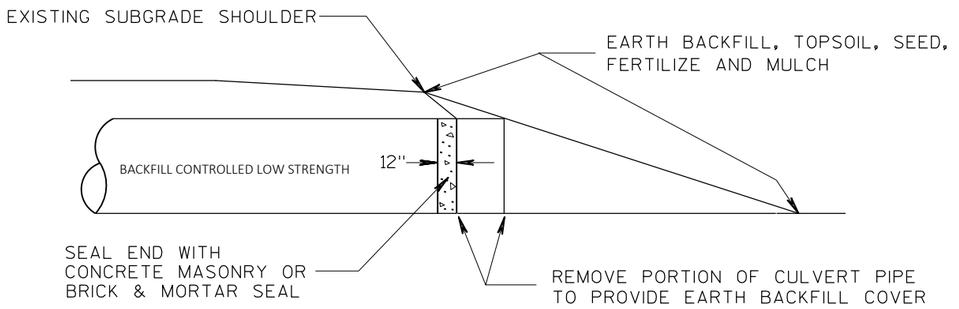
HALF SECTION
CULVERT REPLACEMENT
NOT IN GRADING AREA

HALF SECTION
CULVERT REPLACEMENT
IN GRADING AREA



CROSS DRAIN INSTALLATION DETAIL

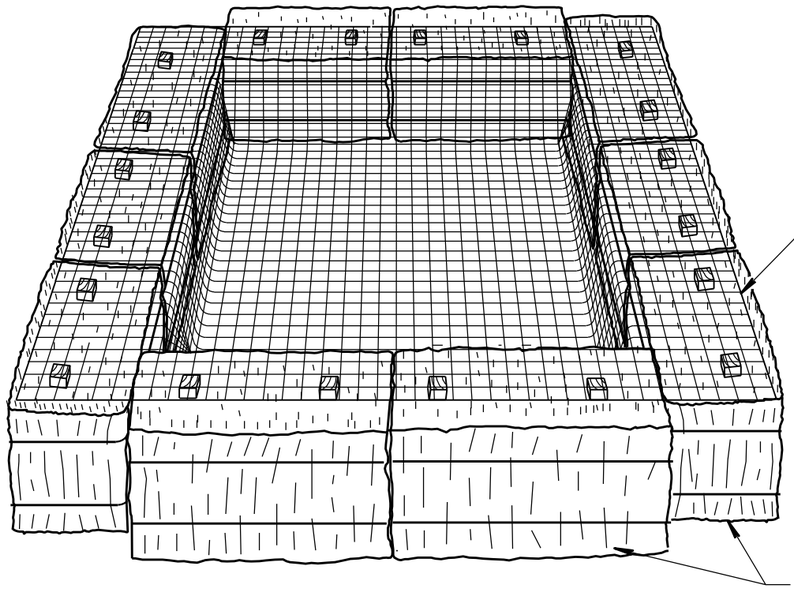
LOCATIONS SHOWN ON PLANS



ABANDONING CULVERT PIPE DETAIL

LOCATIONS SHOWN ON PLANS

2



TEMPORARY SETTLING BASIN

(SIZE TO BE DETERMINED IN FIELD AS INDICATED BELOW:)

STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE:
CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM
HEIGHT OF BALES = 1.5 FT.

SOLUTION:
SV (C.F.) = 16 X 50
SV = 800 C.F.

$\frac{800\ C.F.}{1.5\ FT.}$ = 533 S.F.

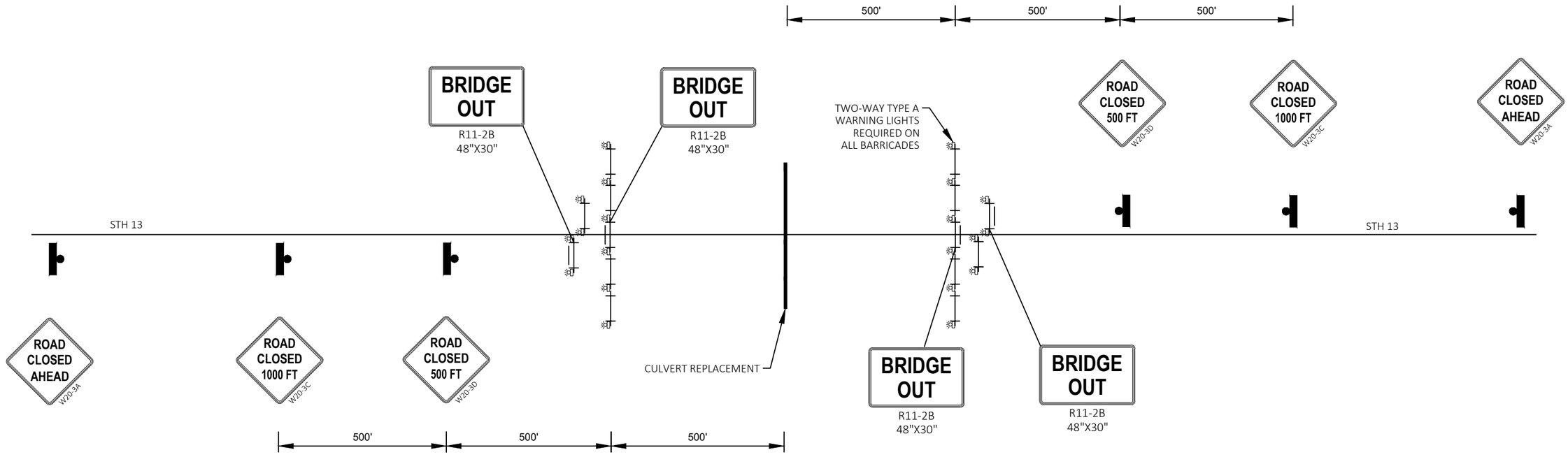
USE A 20 FT. X 27 FT. BASIN

RUNOFF COEFFICIENT TABLE

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

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

2



TRAFFIC CONTROL NOTES:
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL IN USE SHALL BE COVERED OR REMOVED AS NEEDED AND AS APPROVED BY THE ENGINEER. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED BY THE ENGINEER.

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

TRAFFIC CONTROL AROUND CULVERT REPLACEMENT DURING DETOUR

NOTE:
TRAFFIC CONTROL TO BE IN PLACE UNTIL LOCAL TRAFFIC CAN DRIVE ON GRAVEL OVER REPLACEMENT AREAS.

NO MORE THAN TWO CLOSURES WILL BE ALLOWED AT ONE TIME. ACCESS TO ALL BUSINESSES, RESIDENCES, AND DRIVEWAYS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

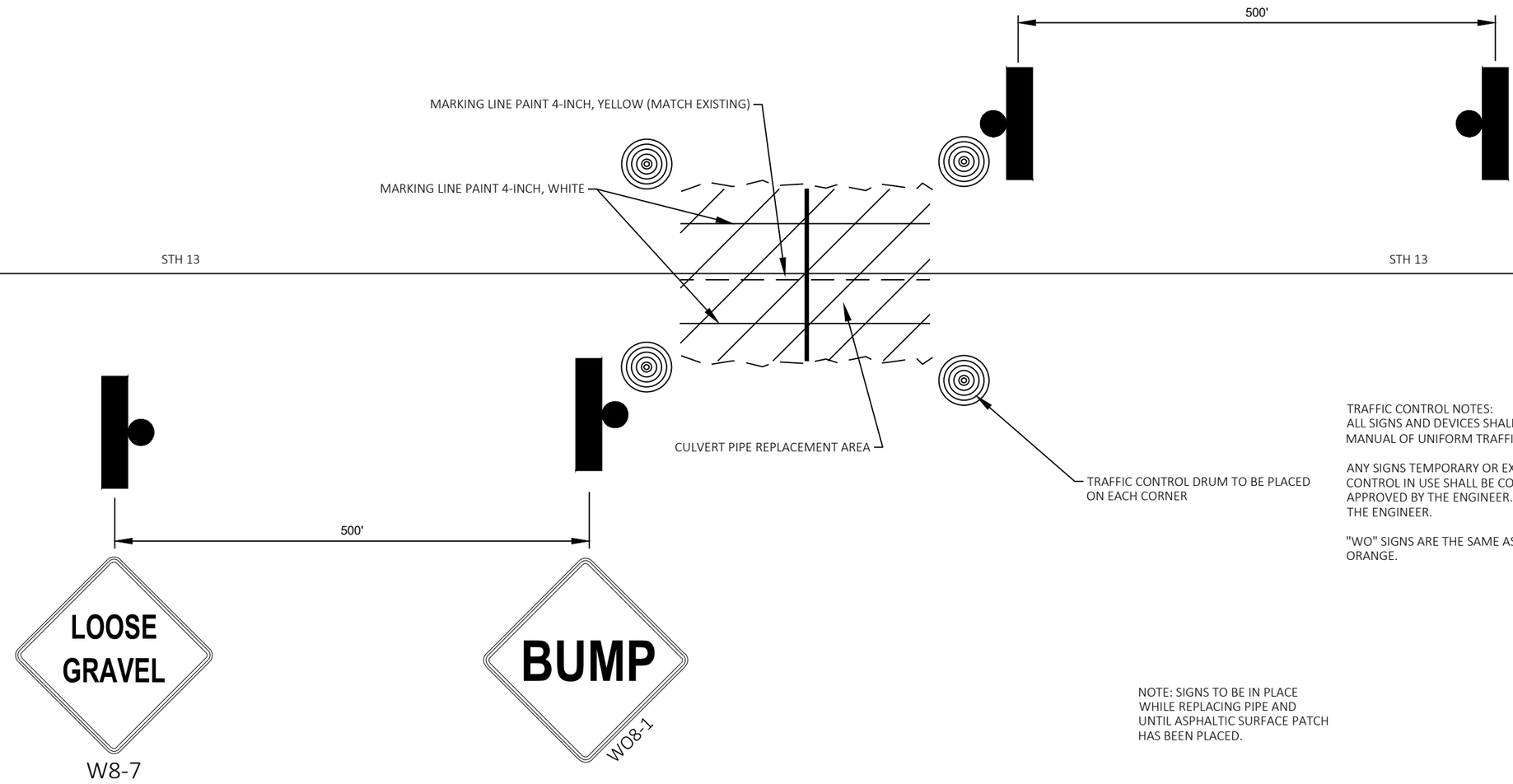
2





W8-7

TEMPORARY SIGNING AND PERMANENT MARKING AT CULVERT PIPE REPLACEMENT



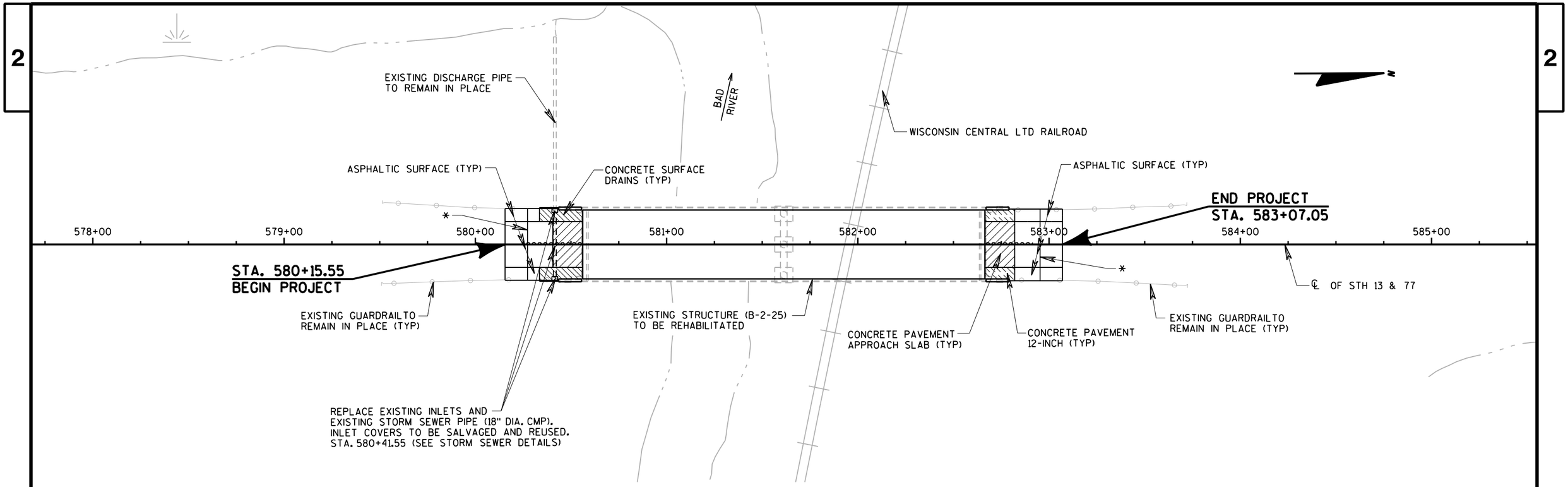
W8-7

TRAFFIC CONTROL NOTES:
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL IN USE SHALL BE COVERED OR REMOVED AS NEEDED AND AS APPROVED BY THE ENGINEER. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED BY THE ENGINEER.

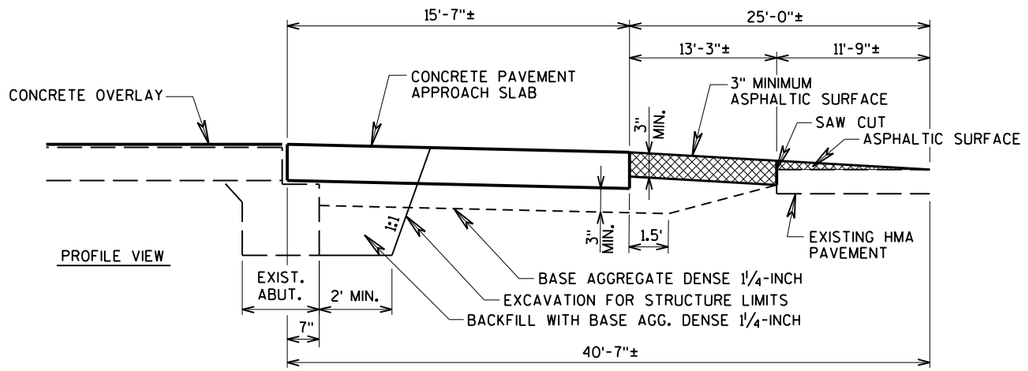
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE.

NOTE: SIGNS TO BE IN PLACE WHILE REPLACING PIPE AND UNTIL ASPHALTIC SURFACE PATCH HAS BEEN PLACED.



APPROACH SLAB DETAIL

*SAW CUT REQ'D.

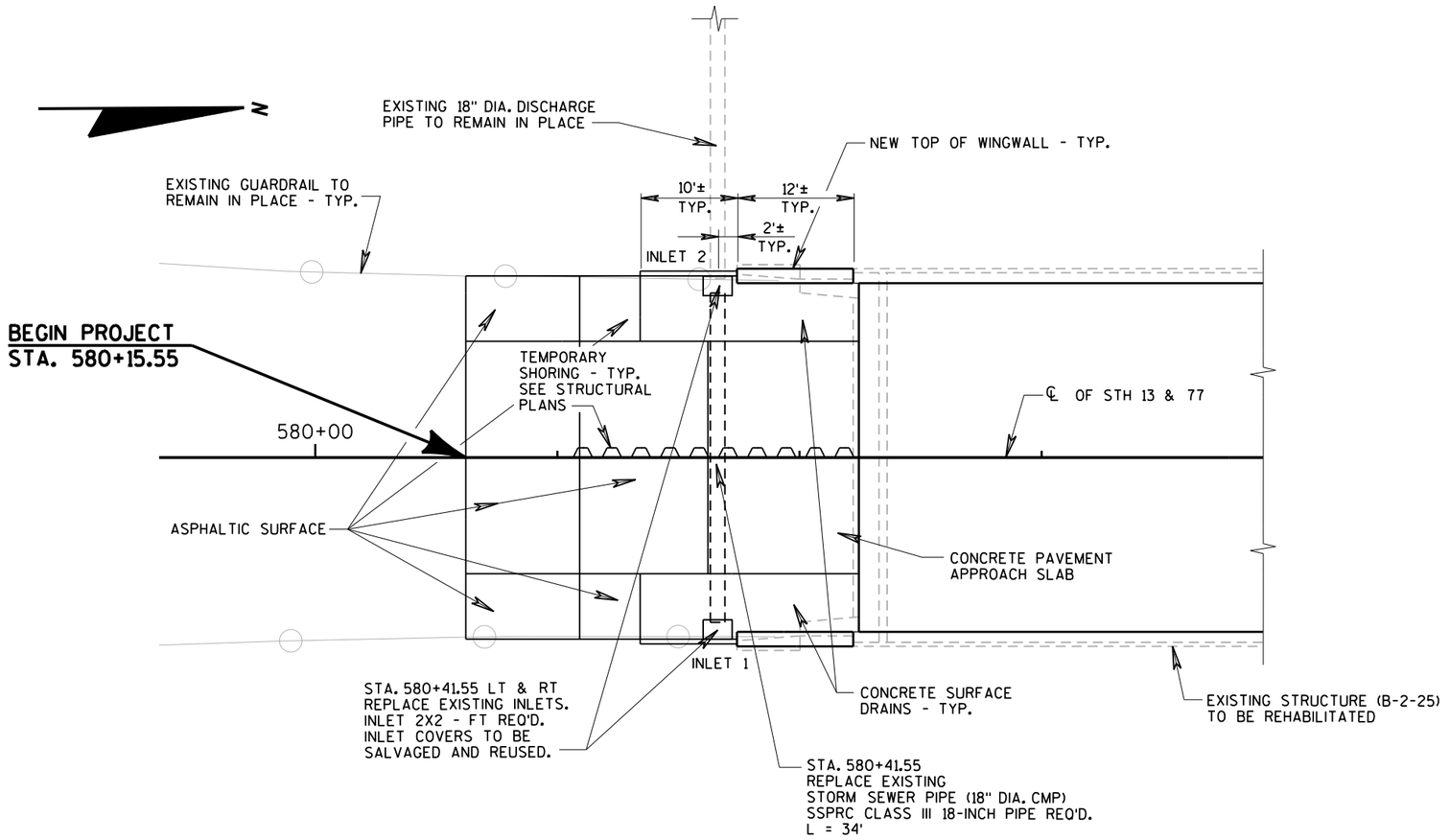


APPROACH REPLACEMENT DETAIL

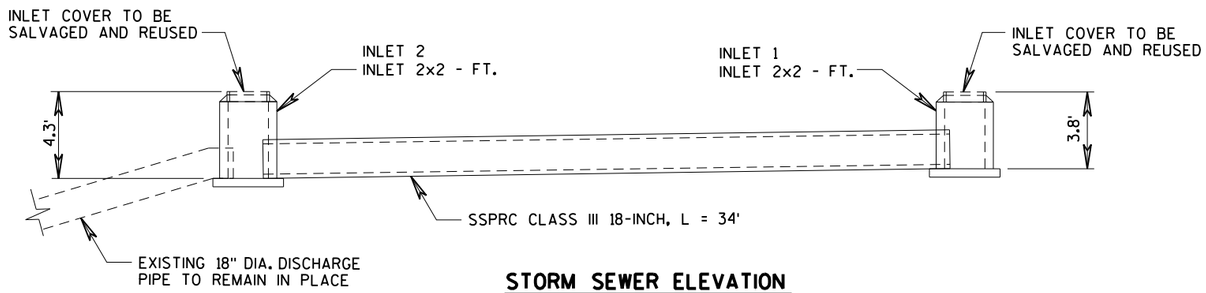
PROJECT NO: 1610-11-73	HWY: STH 13 & 77	COUNTY: ASHLAND	APPROACH DETAILS - B-2-25	SHEET

U:\42-1087.00 - Ashland Co. STH 13 and 77 over the Soo Line RR Bridge Rehab\Roadway\421087_appr.dgn 10/7/2019 $PLOT NA PENTABLE:Wisdot_shd.tbl WalderaK
WISDOT/CADDS SHEET 42

2



STORM SEWER DETAIL



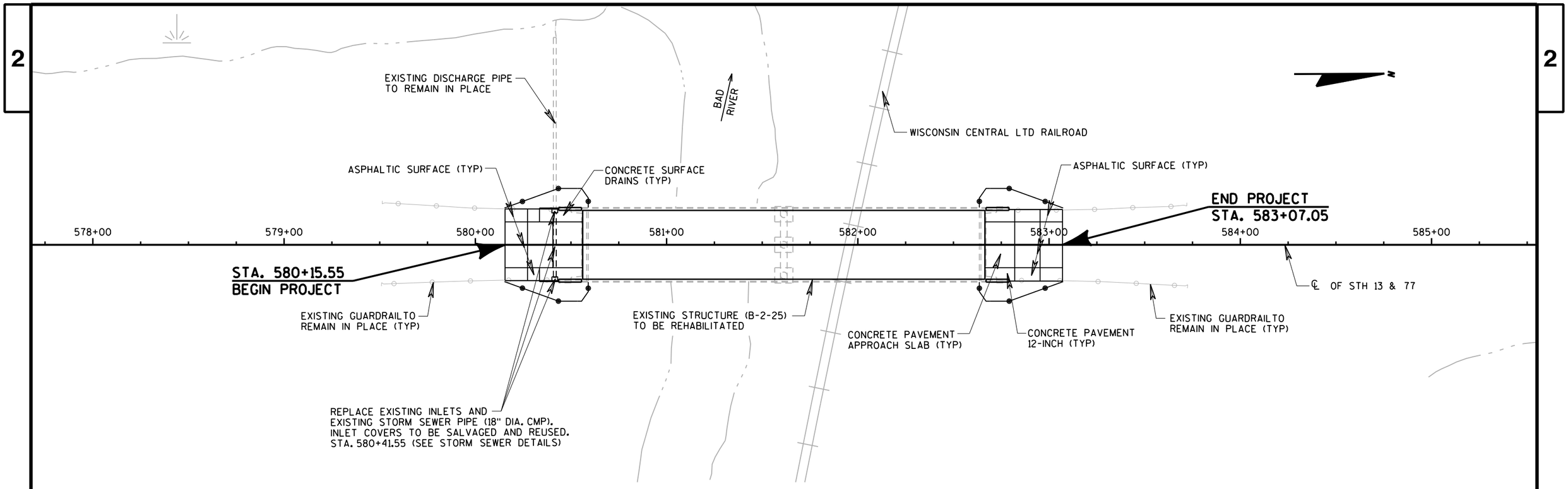
STORM SEWER ELEVATION

(LOOKING NORTH)

PROJECT NO: 1610-11-73	HWY: STH 13 & 77	COUNTY: ASHLAND	CONSTRUCTION DETAILS	SHEET

U:\42-1087.00 - Ashland Co. STH 13 and 77 over the Soo Line RR Bridge Rehab\Roadway\421087_cd.dgn 10/7/2019 $PLOT NA PENTABLE:Wisdot_shd.tbl WalderaK

WISDOT/CADDS SHEET 42



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

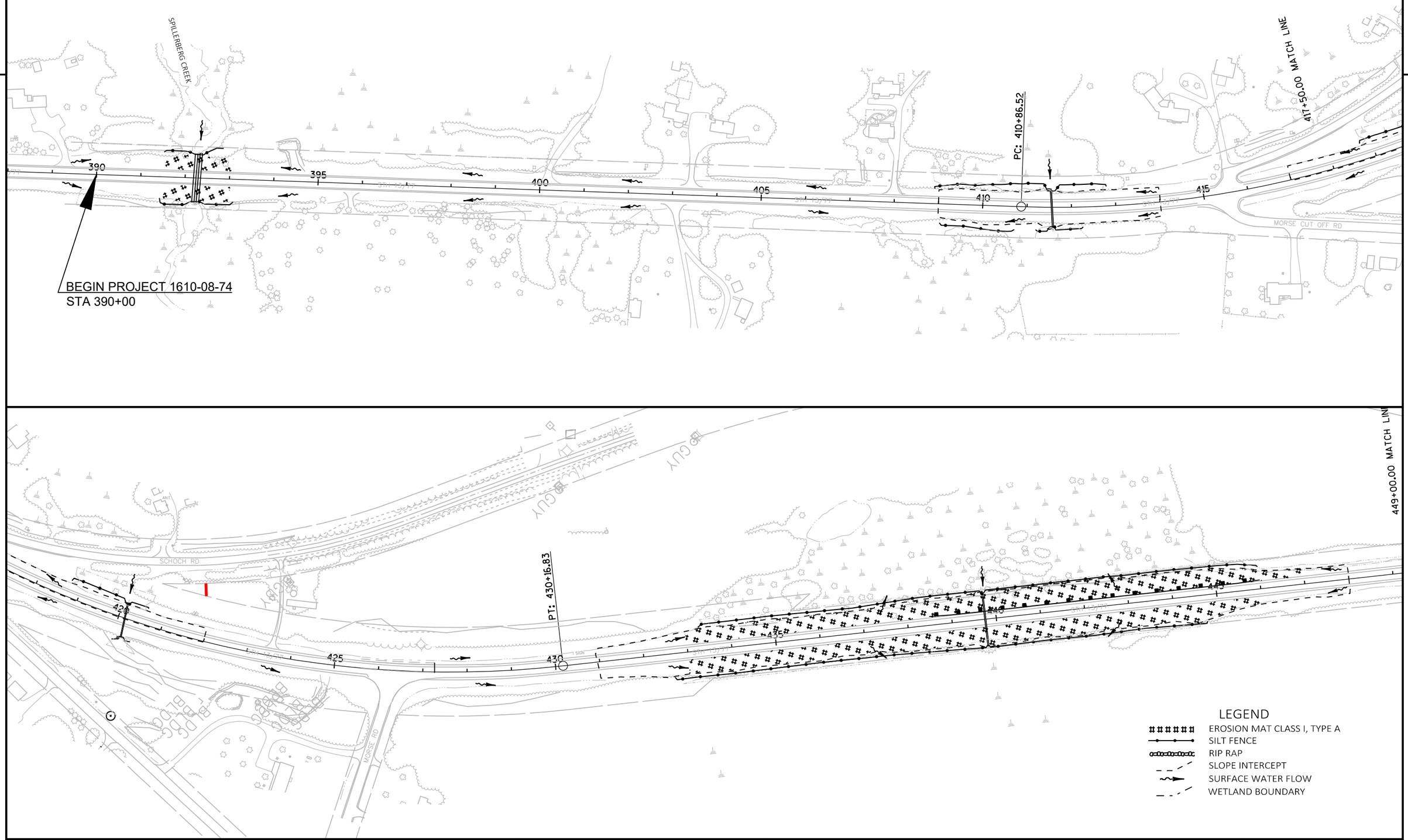
TOTAL PROJECT AREA = 1.842 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.259 ACRES

LEGEND

SILT FENCE

HIGH WATER $_2$ EL. 1444.0

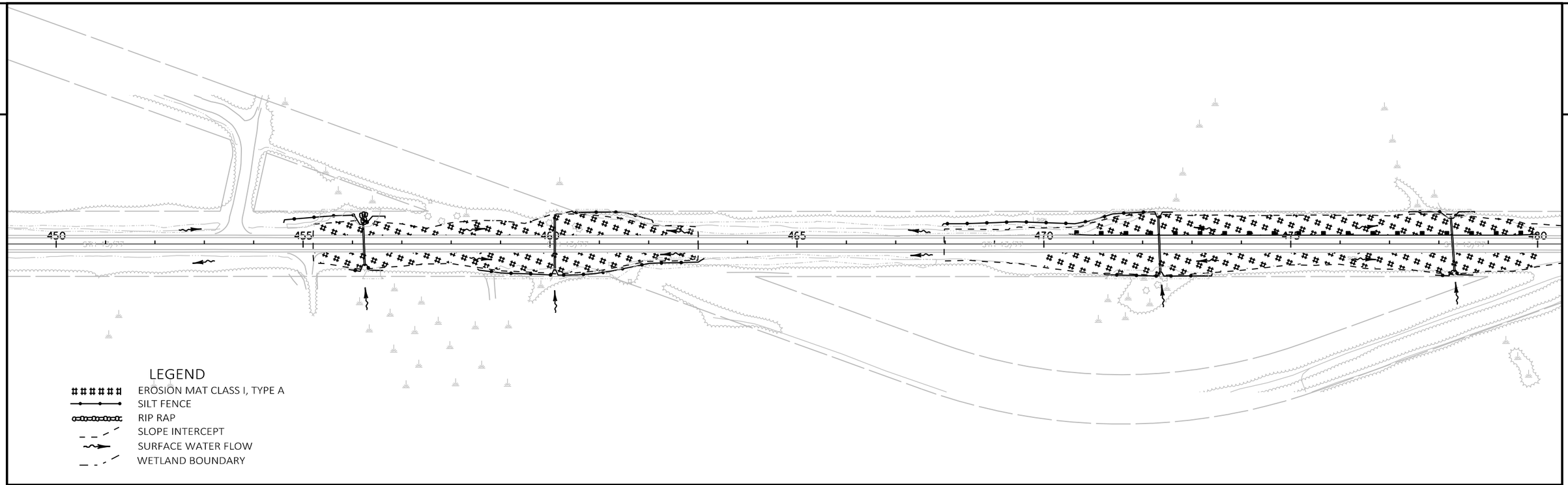
PROJECT NO: 1610-11-73	HWY: STH 13 & 77	COUNTY: ASHLAND	EROSION CONTROL	SCALE, FEET 0 25 50	SHEET 13



2

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL (1610-08-74)	SHEET 14	E

2



LEGEND

- EROSION MAT CLASS I, TYPE A
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- WETLAND BOUNDARY

2

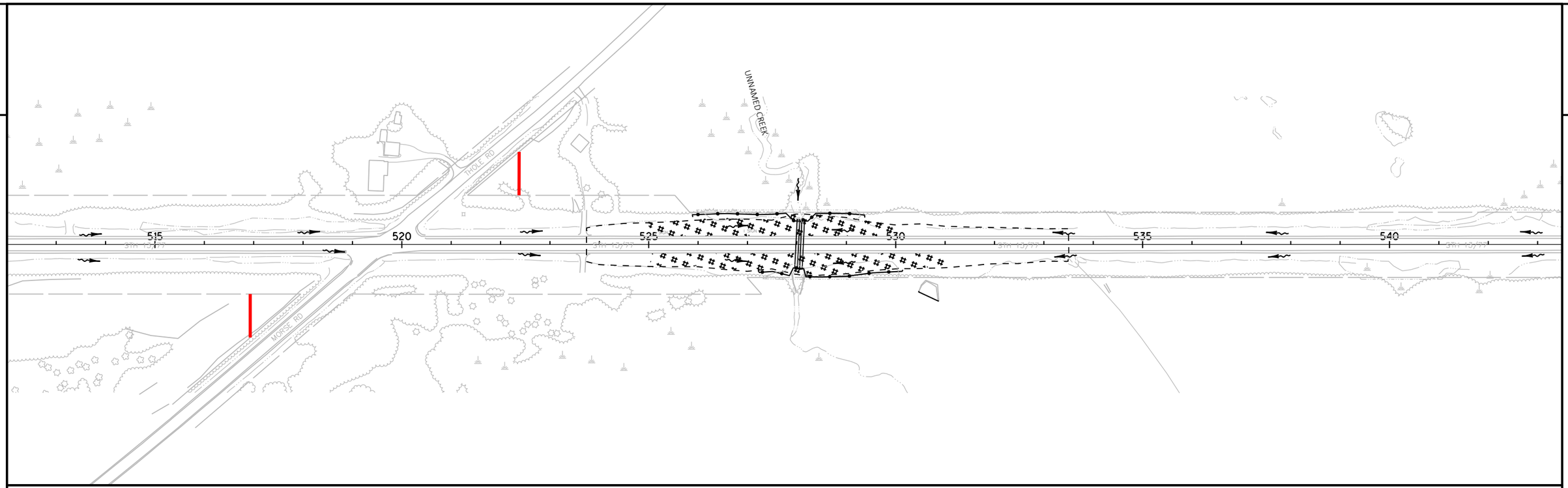
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL (1610-08-74)	SHEET 15	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_EC.DWG
LAYOUT NAME - EC-2

PLOT DATE : 6/17/2019 3:04 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

2

2



LEGEND

- EROSION MAT CLASS I, TYPE A
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- WETLAND BOUNDARY

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL (1610-08-74)	SHEET 16	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_EC.DWG
LAYOUT NAME - EC-3

PLOT DATE : 6/17/2019 3:05 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ############

2

2

PT: 575+15.88

606+50.00 MATCH LINE

BAD RIVER

560

585

PC: 588+09.31

590

595

600

PT: 604+44.55

605

606+50.00 MATCH LINE

610

615

620

625

PC: 625+81.38

CATUCA RD

630

635

606+50.00 MATCH LINE

LEGEND

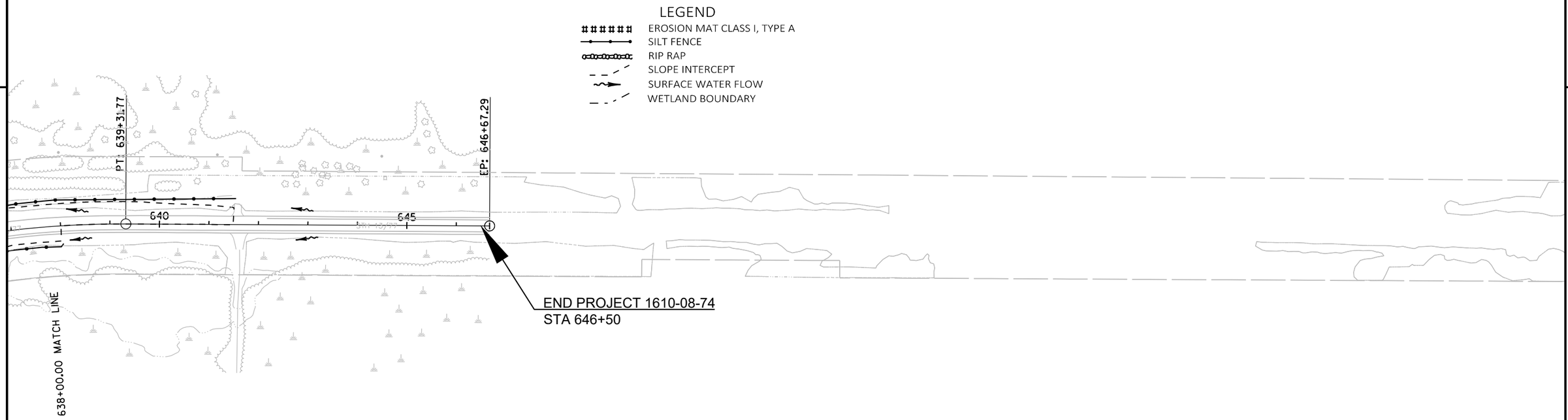
- EROSION MAT CLASS I, TYPE A
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- WETLAND BOUNDARY

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL (1610-08-74)	SHEET 17	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_EC.DWG
LAYOUT NAME - EC-4

PLOT DATE : 6/17/2019 3:05 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

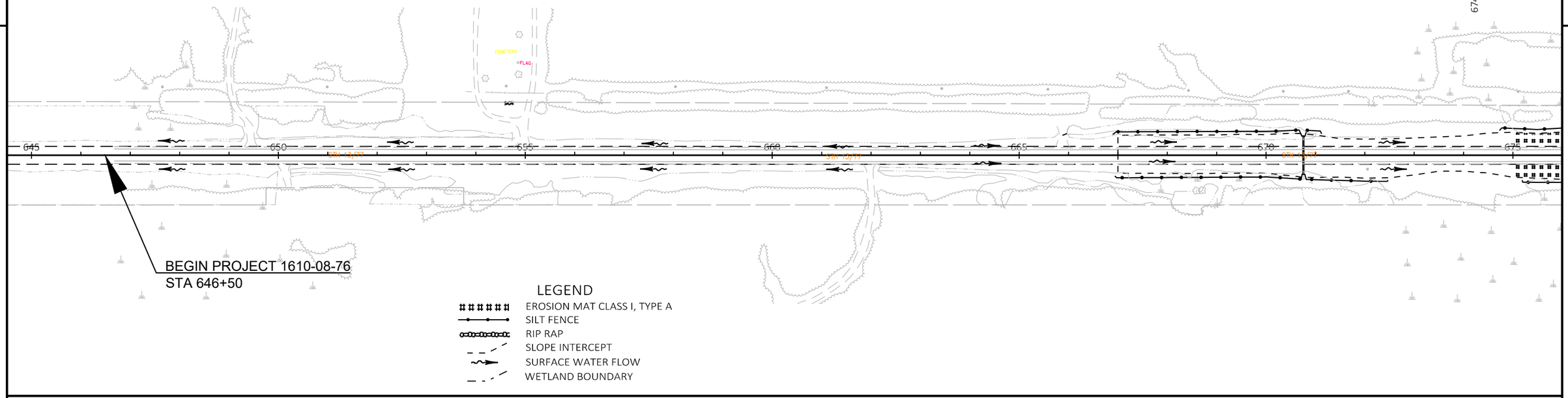
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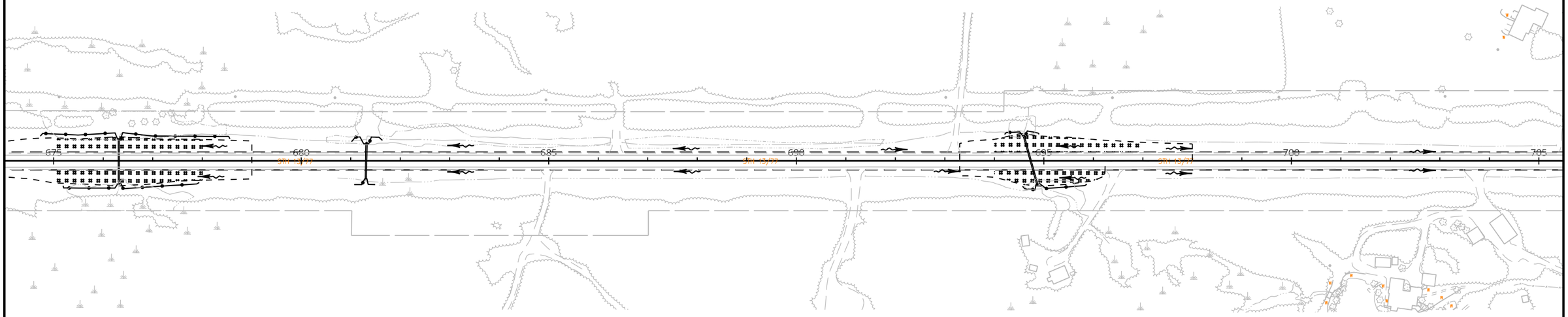


2

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL (1610-08-74)	SHEET 18	E

2





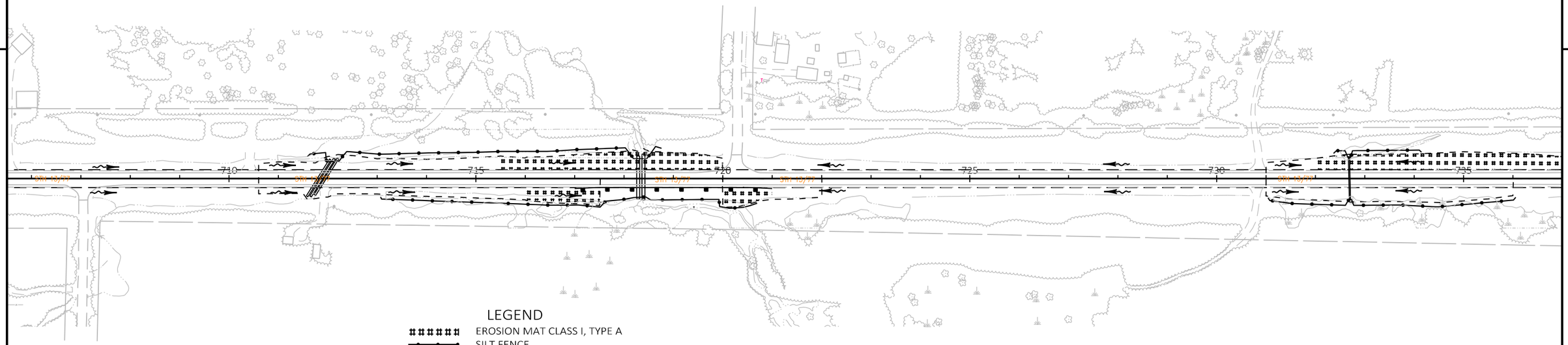
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL (1610-08-76)	SHEET 19	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_EC.DWG
LAYOUT NAME - EC - 1

PLOT DATE : 6/17/2019 3:01 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ############

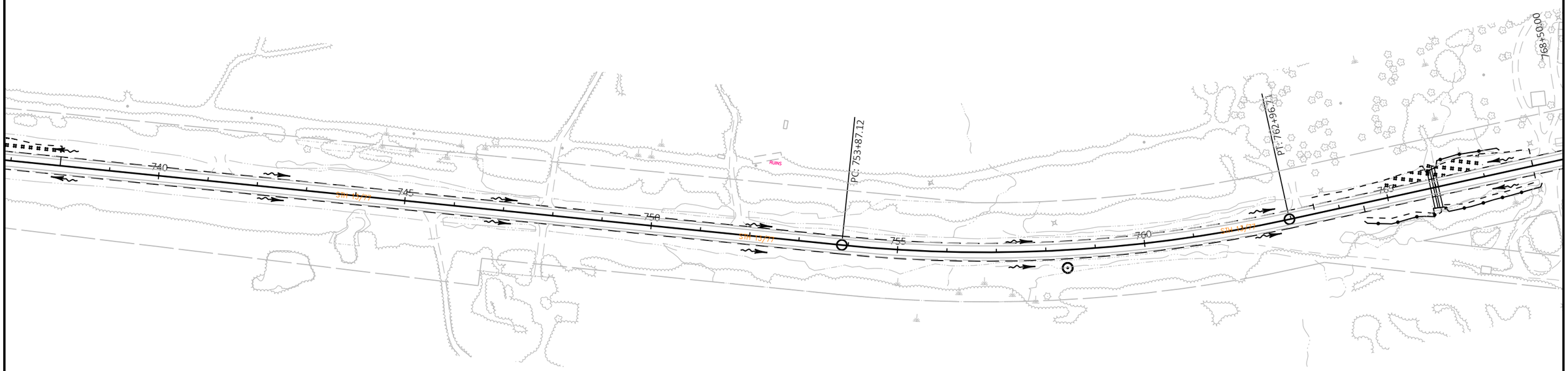
2

2



LEGEND

- EROSION MAT CLASS I, TYPE A
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- WETLAND BOUNDARY



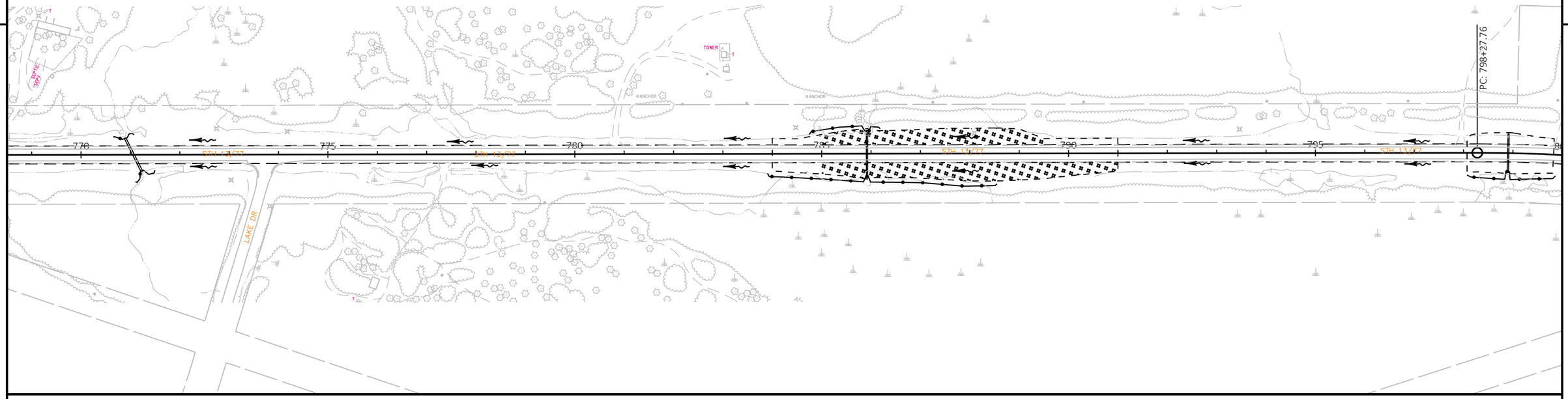
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL (1610-08-76)	SHEET 20	E

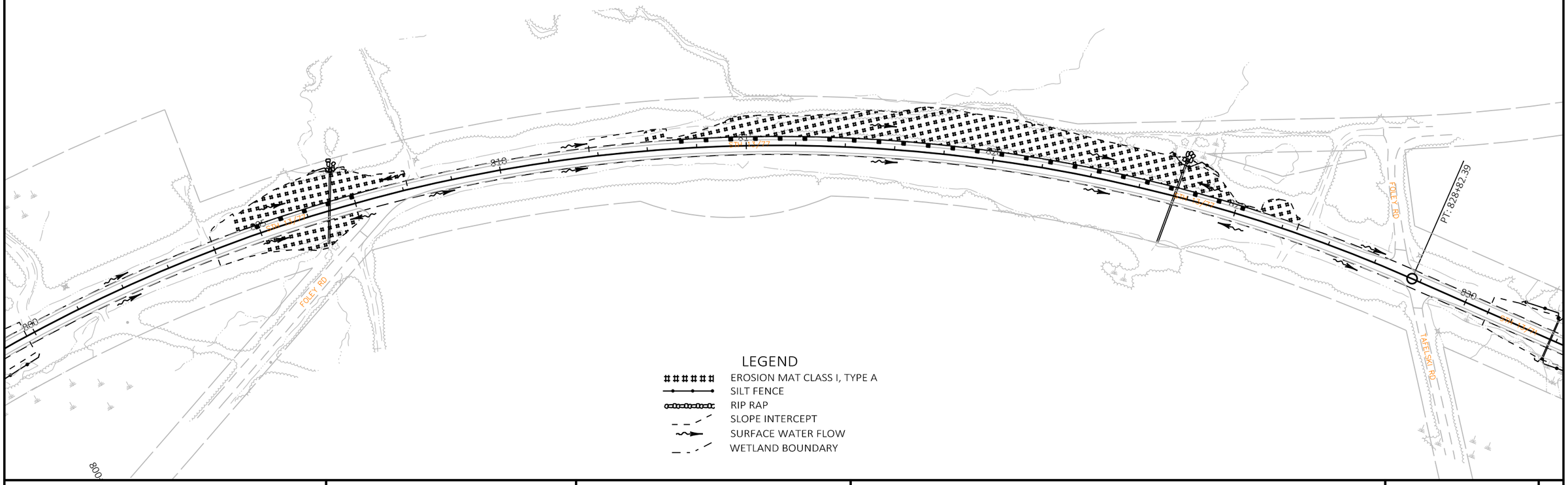
FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_EC.DWG
LAYOUT NAME - EC - 2

PLOT DATE : 6/17/2019 3:01 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 44

2





LEGEND

- EROSION MAT CLASS I, TYPE A
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- WETLAND BOUNDARY

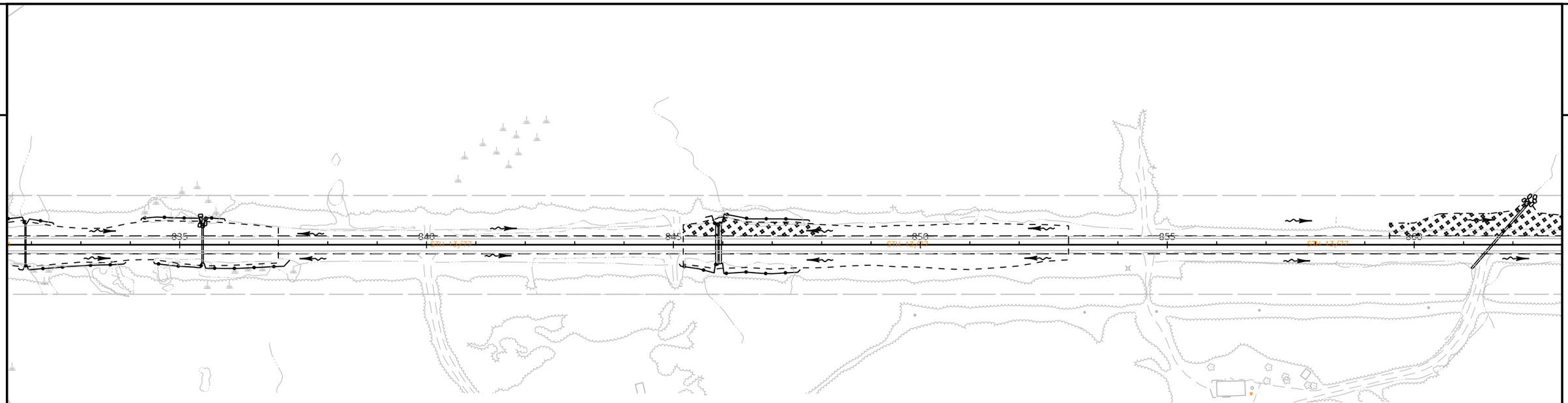
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL (1610-08-76)	SHEET 21	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_EC.DWG
LAYOUT NAME - EC - 3

PLOT DATE : 6/17/2019 3:01 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

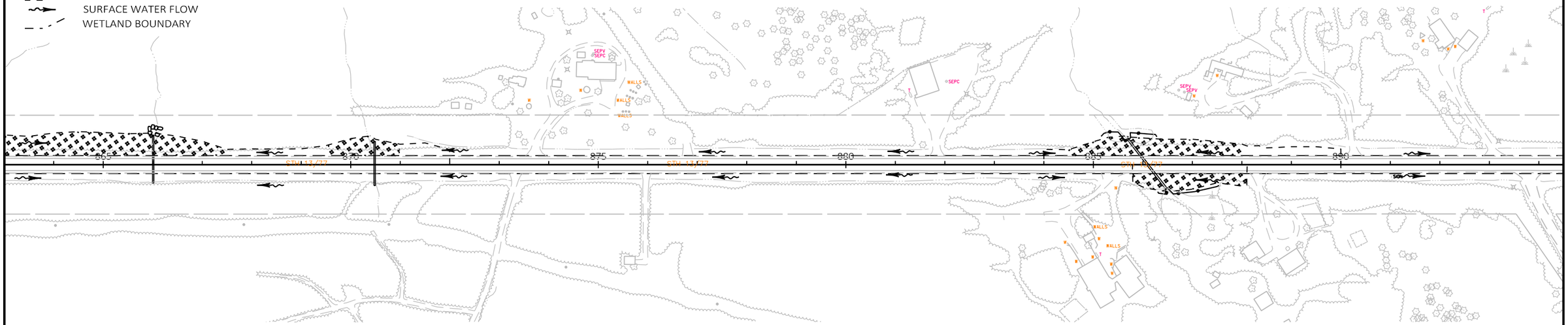
WISDOT/CADDS SHEET 44

2



LEGEND

- EROSION MAT CLASS I, TYPE A
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- WETLAND BOUNDARY



2

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL (1610-08-76)	SHEET 22	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_EC.DWG
LAYOUT NAME - EC - 4

PLOT DATE : 6/17/2019 3:02 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

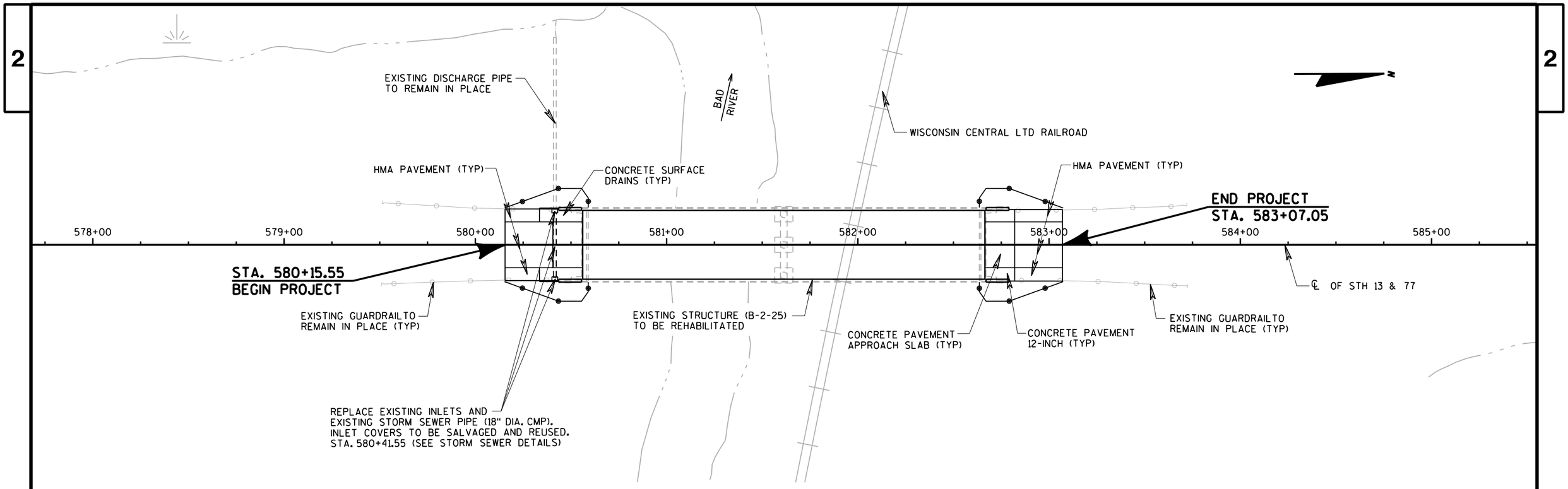
2



LEGEND

- EROSION MAT CLASS I, TYPE A
- SILT FENCE
- RIP RAP
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- WETLAND BOUNDARY

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	EROSION CONTROL (1610-08-76)	SHEET 23	E



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

TOTAL PROJECT AREA = 1.842 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.259 ACRES

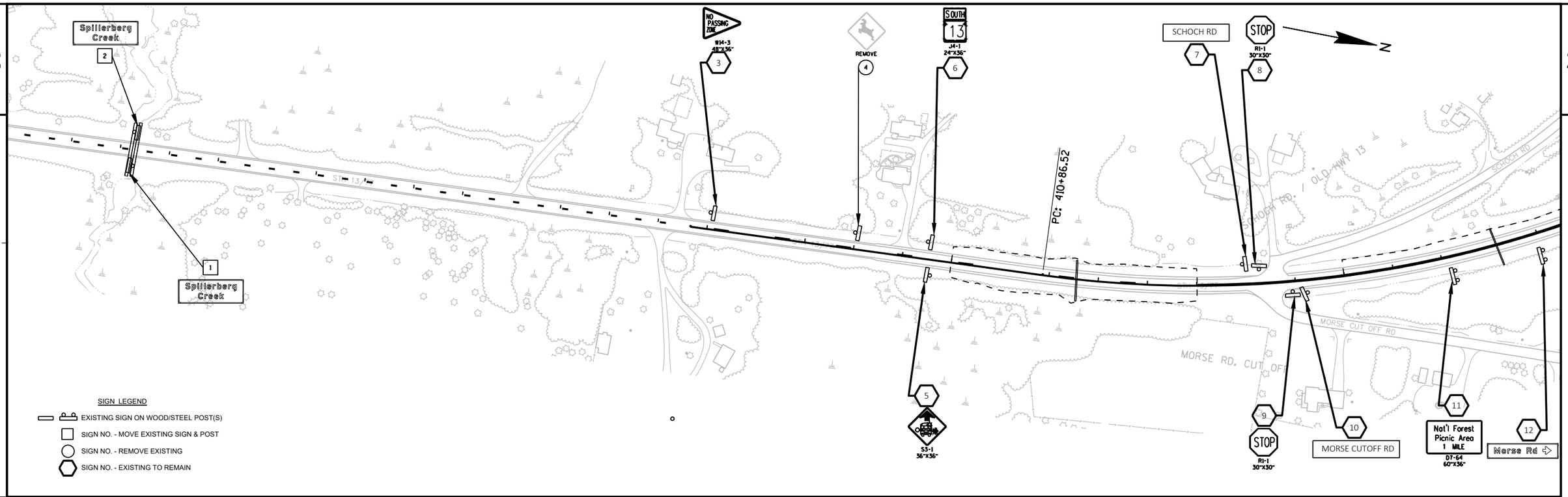
LEGEND

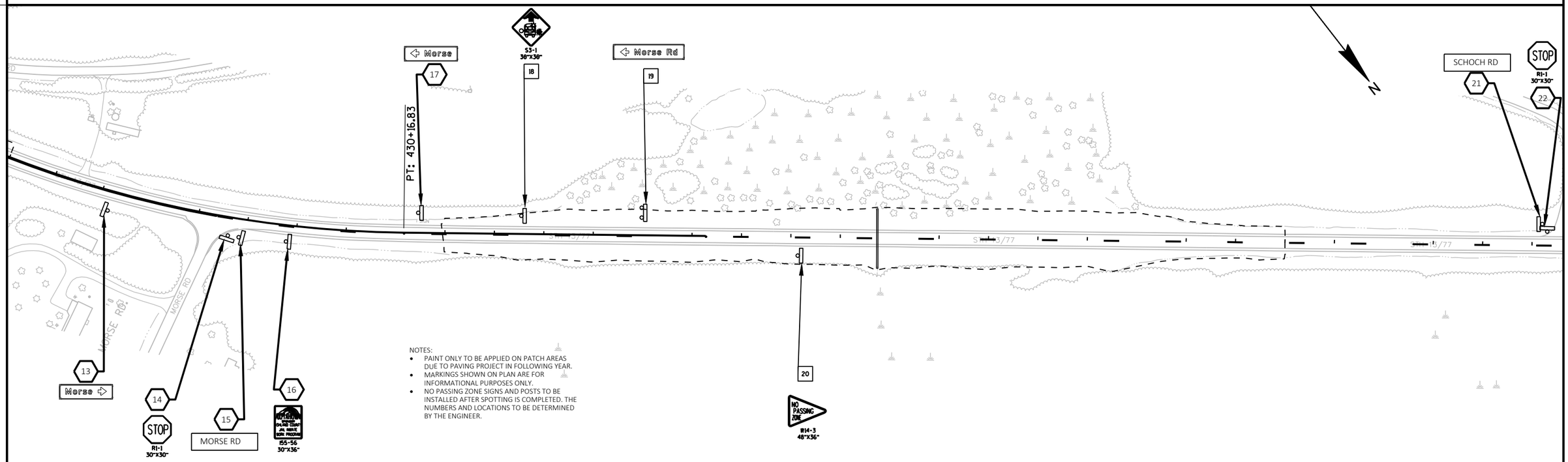
SILT FENCE

HIGH WATER $_2$ EL. 1444.0

PROJECT NO: 1610-11-73	HWY: STH 13 & 77	COUNTY: ASHLAND	EROSION CONTROL	SCALE, FEET 0 25 50	SHEET

U:\42-1087.00 - Ashland Co. STH 13 and 77 over the Soo Line RR Bridge Rehab\Roadway\421087_eros.dgn 7/11/2019 $PLOT NA PENTABLE:Wisdot_shd.tbl walderak 1:50
WISDOT/CADDS SHEET 42





NOTES:

- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- MARKINGS SHOWN ON PLAN ARE FOR INFORMATIONAL PURPOSES ONLY.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.

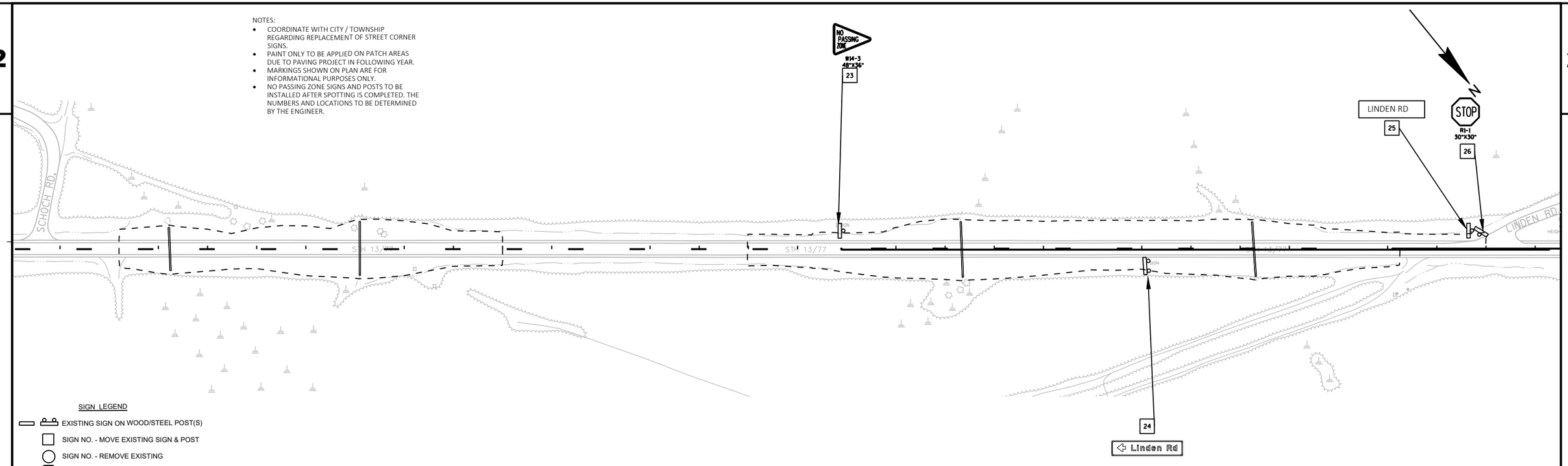
PROJECT NO: 1610-08-74, 1610-08-76, 1610-08-77	HWY: STH 13	COUNTY: ASHLAND	SIGNING & MARKING (1610-08-74)	SHEET 25	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_SIGNING & MARKING.DWG
1610-08-31 - S&M-1

PLOT DATE : 6/17/2019 2:33 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:200 FT

NOTES:

- COORDINATE WITH CITY / TOWNSHIP REGARDING REPLACEMENT OF STREET CORNER SIGNS.
- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- MARKINGS SHOWN ON PLAN ARE FOR INFORMATIONAL PURPOSES ONLY.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.

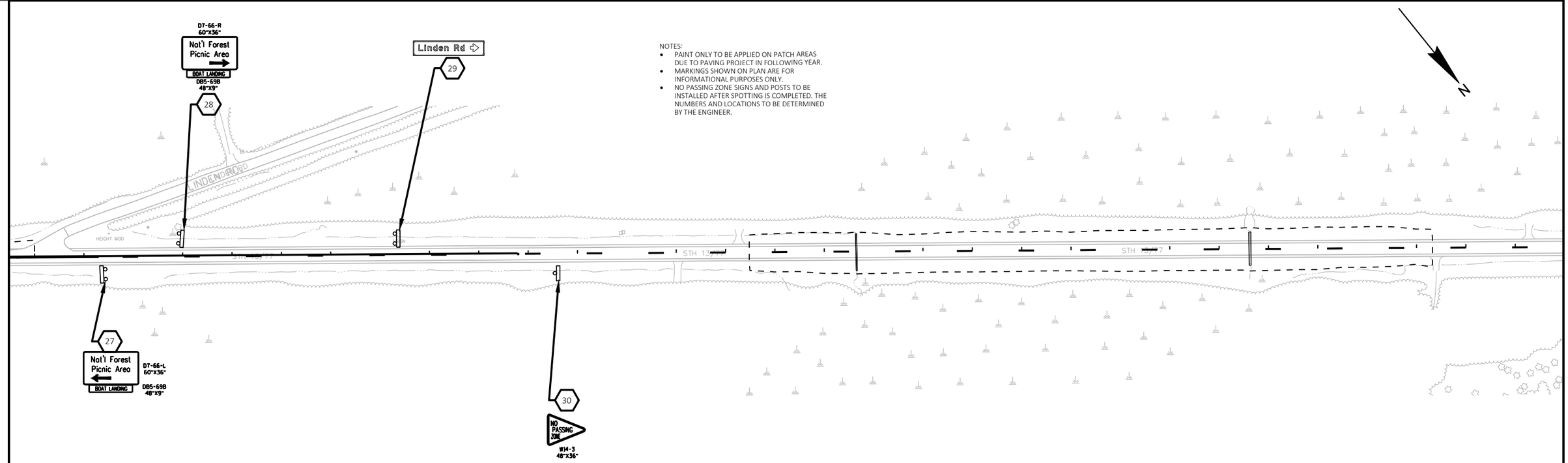


SIGN LEGEND

- EXISTING SIGN ON WOOD/STEEL POST(S)
- SIGN NO. - MOVE EXISTING SIGN & POST
- SIGN NO. - REMOVE EXISTING
- SIGN NO. - EXISTING TO REMAIN

NOTES:

- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- MARKINGS SHOWN ON PLAN ARE FOR INFORMATIONAL PURPOSES ONLY.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.

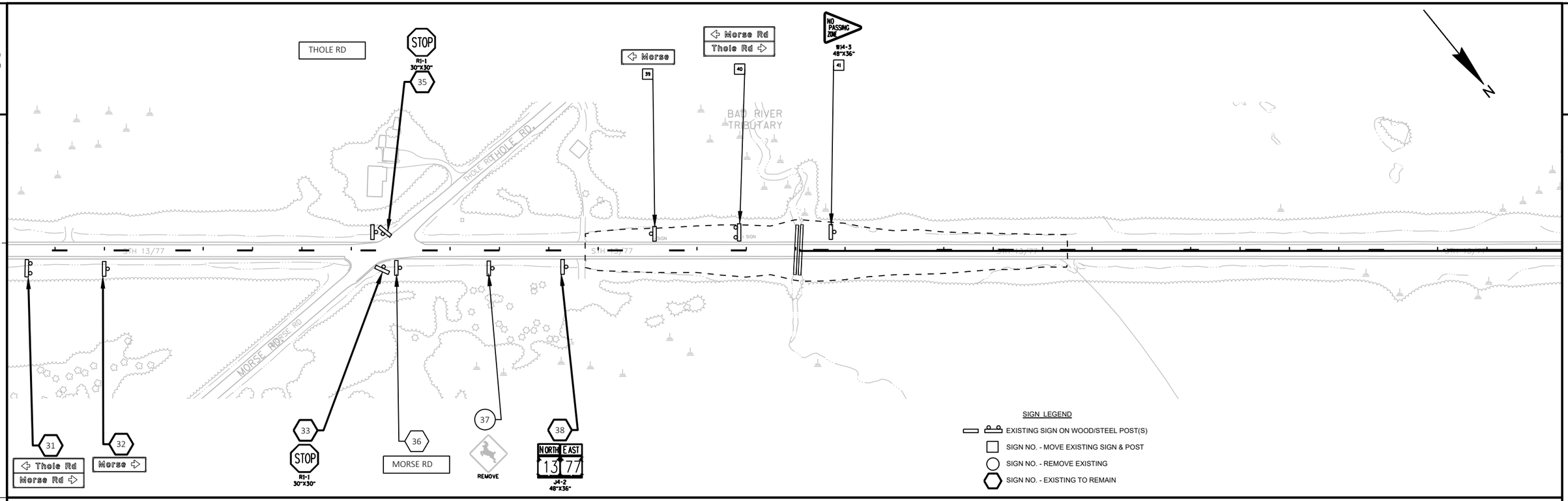


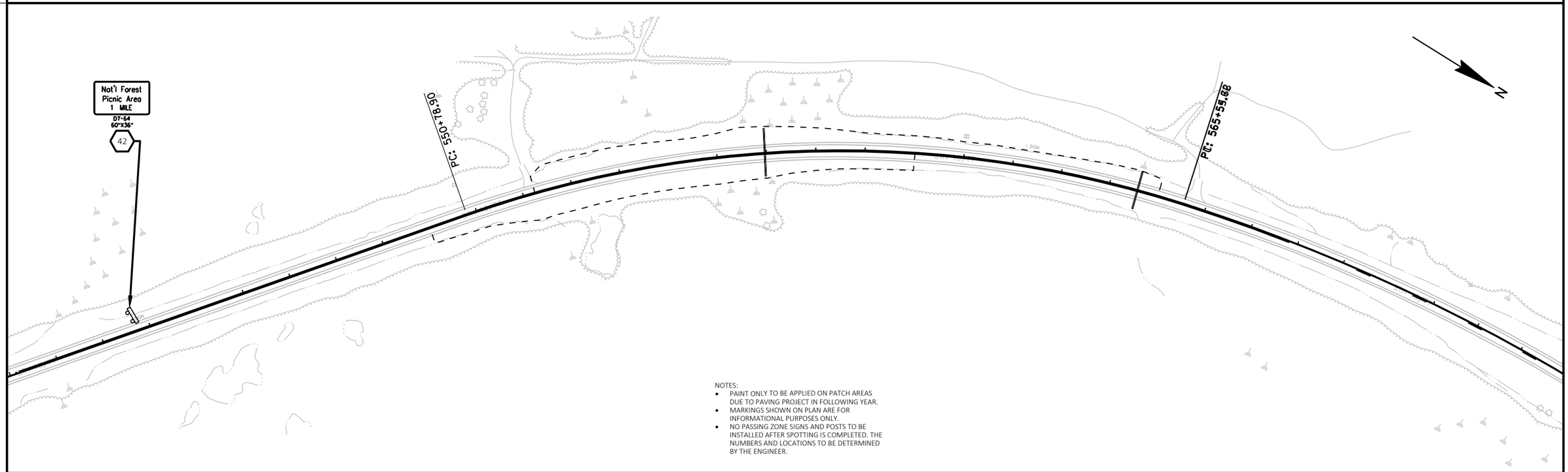
PROJECT NO: 1610-08-74, 1610-08-76, 1610-08-77	HWY: STH 13	COUNTY: ASHLAND	SIGNING & MARKING (1610-08-74)	SHEET 26	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_SIGNING & MARKING.DWG
1610-08-31 - S&M-2

PLOT DATE : 6/17/2019 2:34 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44





NOTES:

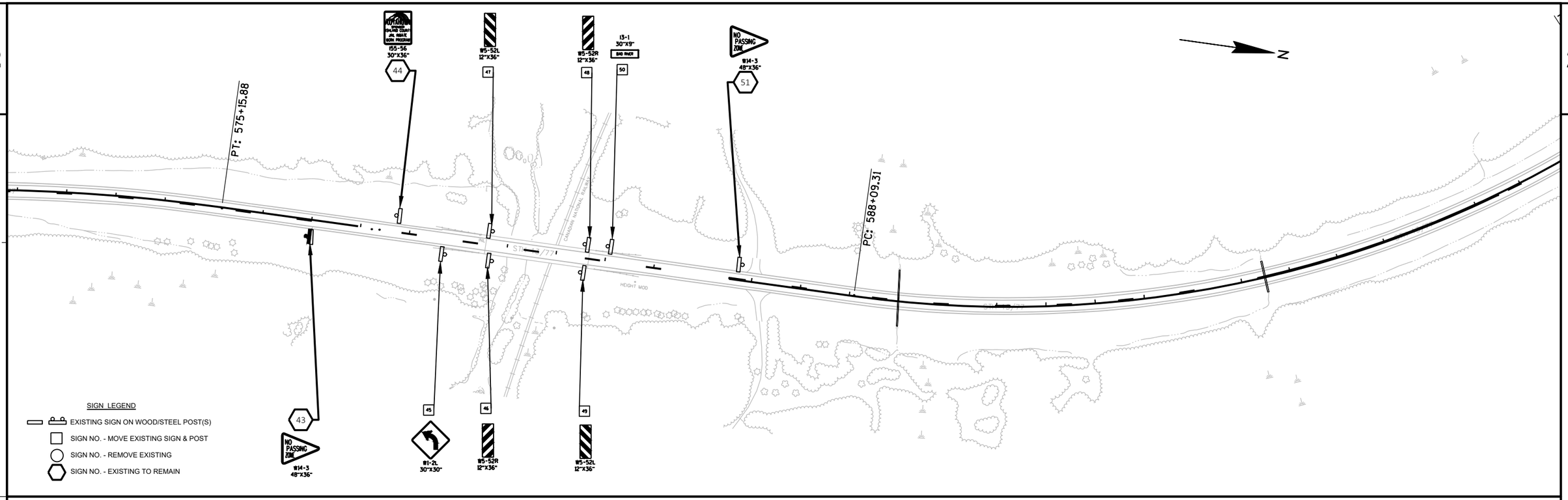
- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- MARKINGS SHOWN ON PLAN ARE FOR INFORMATIONAL PURPOSES ONLY.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.

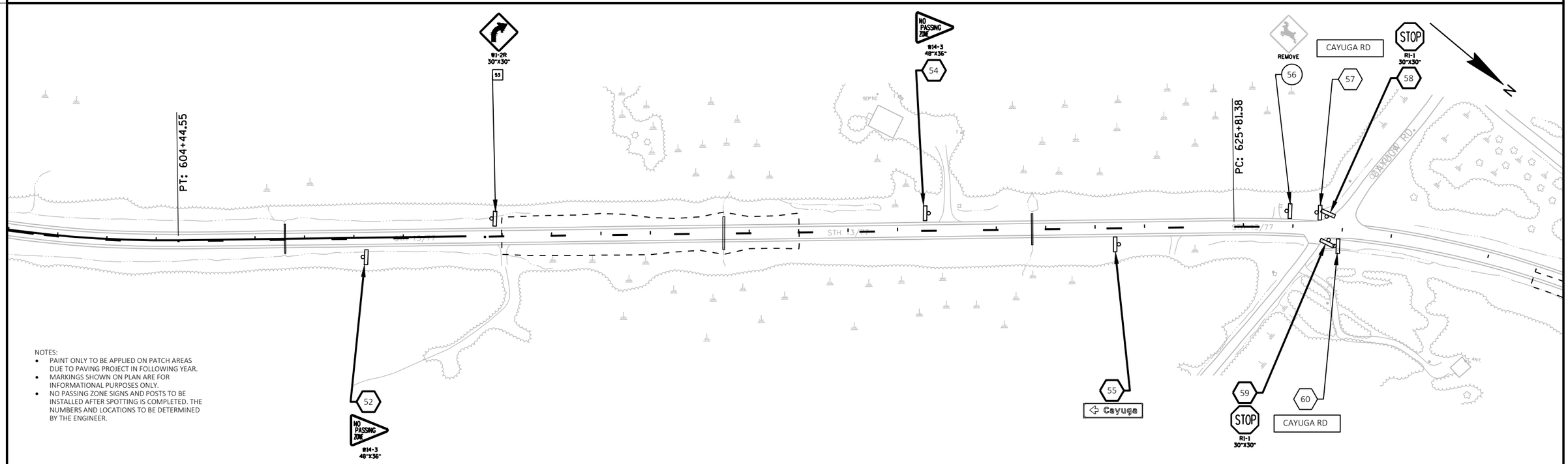
PROJECT NO: 1610-08-74, 1610-08-76, 1610-08-77	HWY: STH 13	COUNTY: ASHLAND	SIGNING & MARKING (1610-08-74)	SHEET 27	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_SIGNING & MARKING.DWG
1610-08-31 - S&M-3

PLOT DATE : 6/17/2019 2:34 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:200 FT

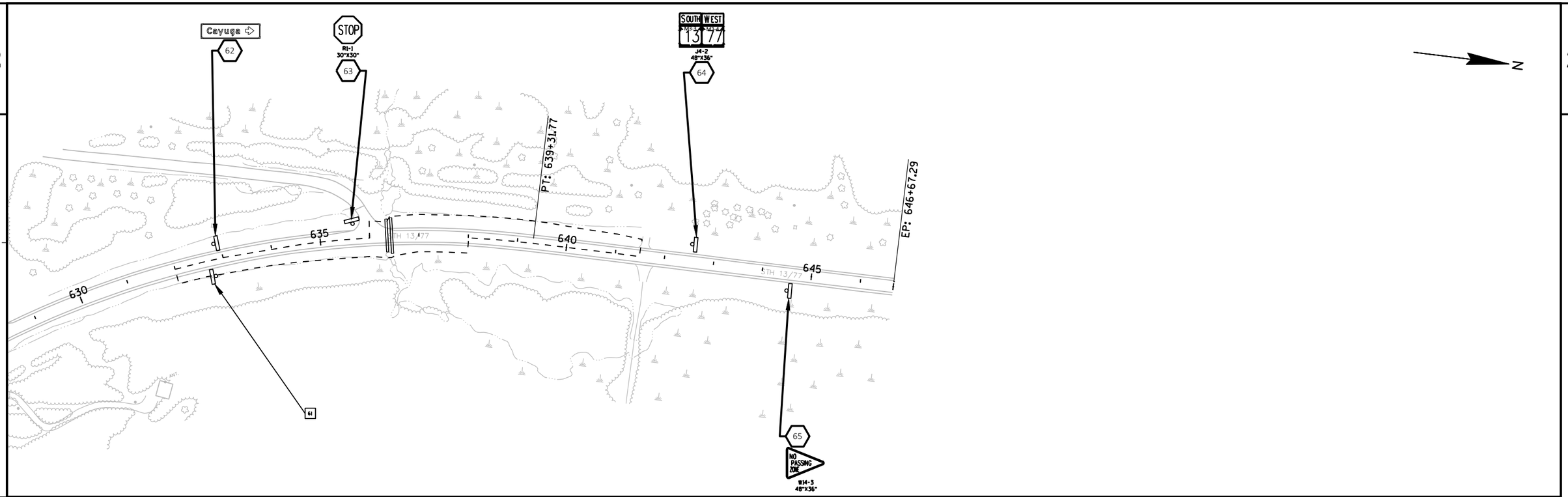
2





NOTES:
- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- MARKINGS SHOWN ON PLAN ARE FOR INFORMATIONAL PURPOSES ONLY.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.

PROJECT NO: 1610-08-74, 1610-08-76, 1610-08-77	HWY: STH 13	COUNTY: ASHLAND	SIGNING & MARKING (1610-08-74)	SHEET 28	E



SIGN LEGEND

- EXISTING SIGN ON WOOD/STEEL POST(S)
- SIGN NO. - MOVE EXISTING SIGN & POST
- SIGN NO. - REMOVE EXISTING
- SIGN NO. - EXISTING TO REMAIN

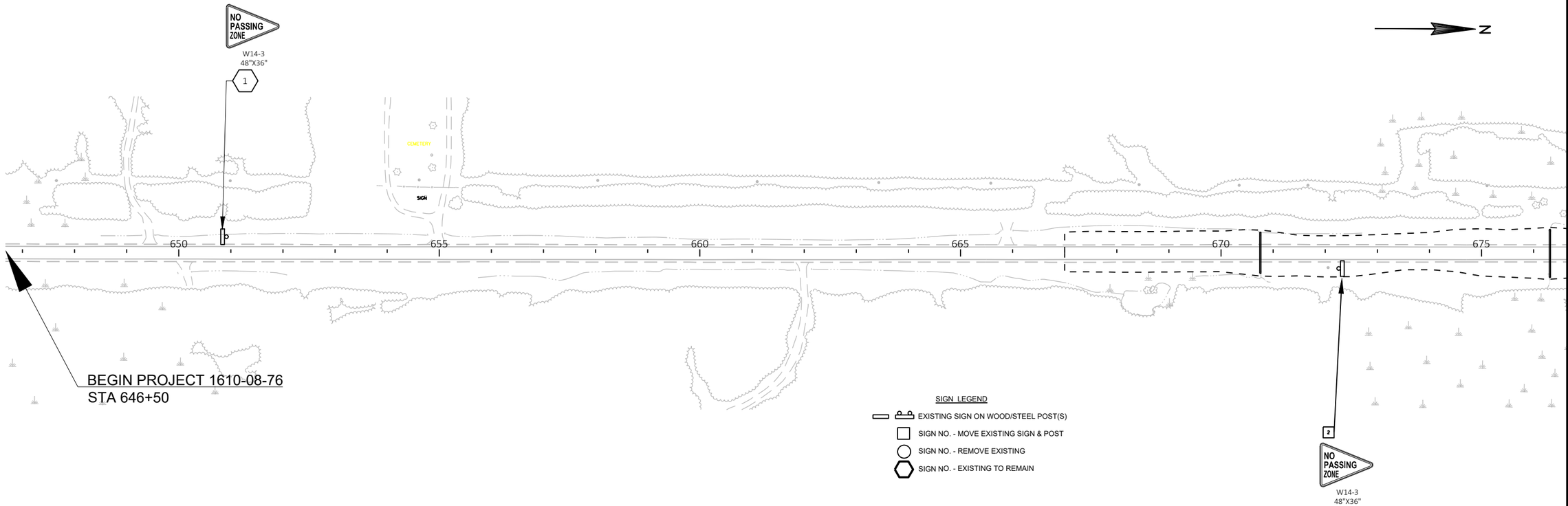
NOTES:

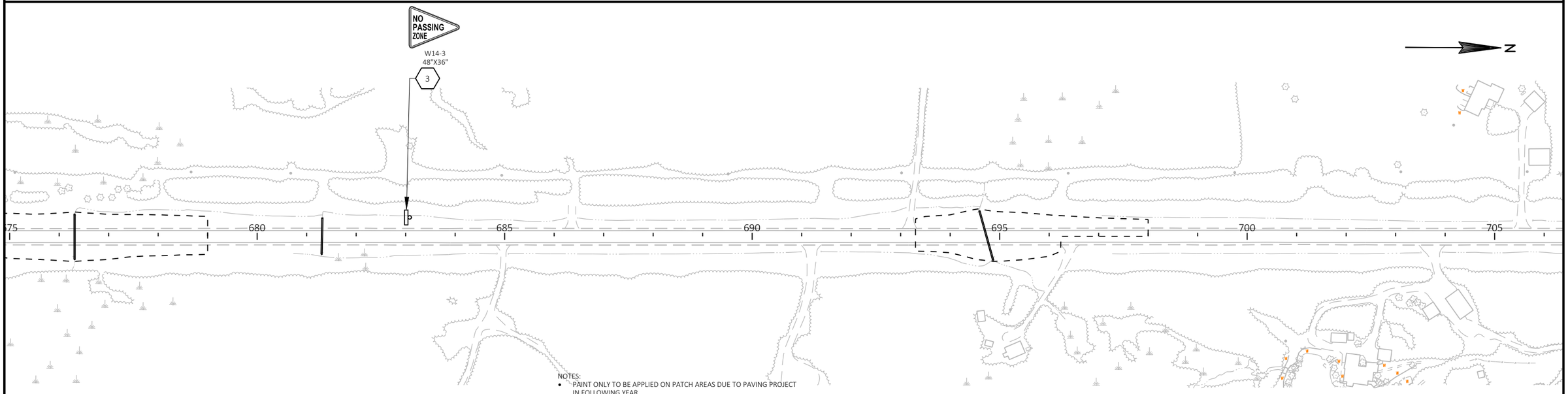
- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- MARKINGS SHOWN ON PLAN ARE FOR INFORMATIONAL PURPOSES ONLY.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.

PROJECT NO: 1610-08-74, 1610-08-76, 1610-HWY: STH 13	COUNTY: ASHLAND	SIGNING & MARKING (1610-08-74)	SHEET 29	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_SIGNING & MARKING.DWG
LAYOUT NAME - S&M-5

PLOT DATE : 6/17/2019 2:35 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:200 FT





NOTES:

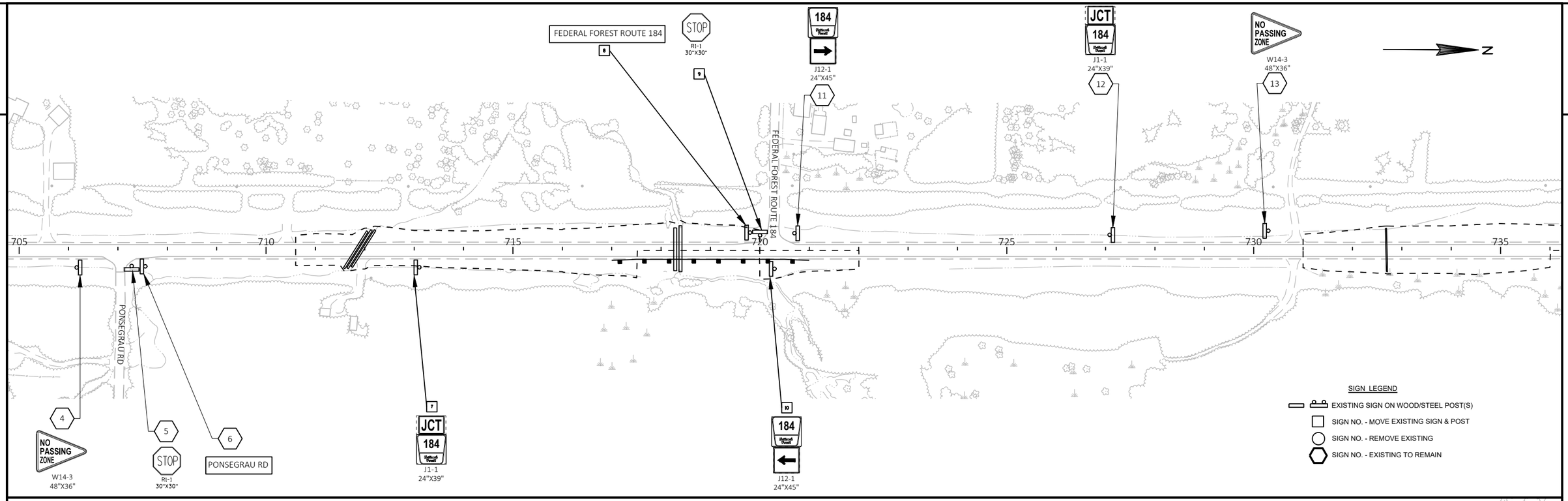
- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	SIGNING & MARKING (1610-08-76)	SHEET 30	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_S&M.DWG
LAYOUT NAME - S&M-1

PLOT DATE : 6/17/2019 2:25 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

2

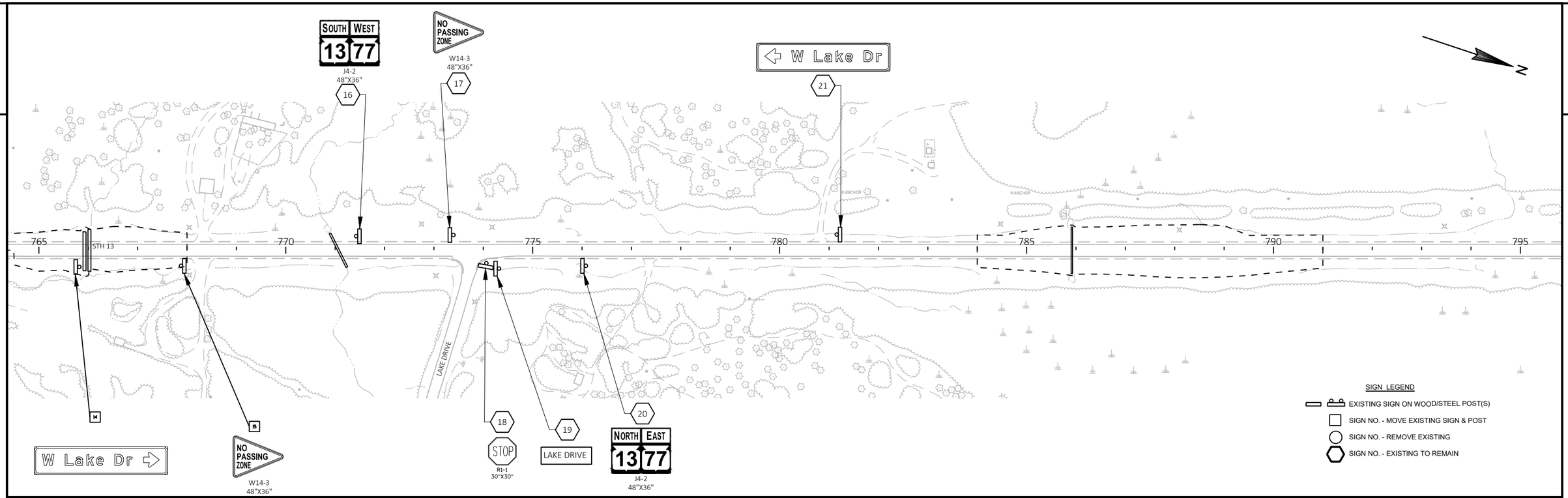




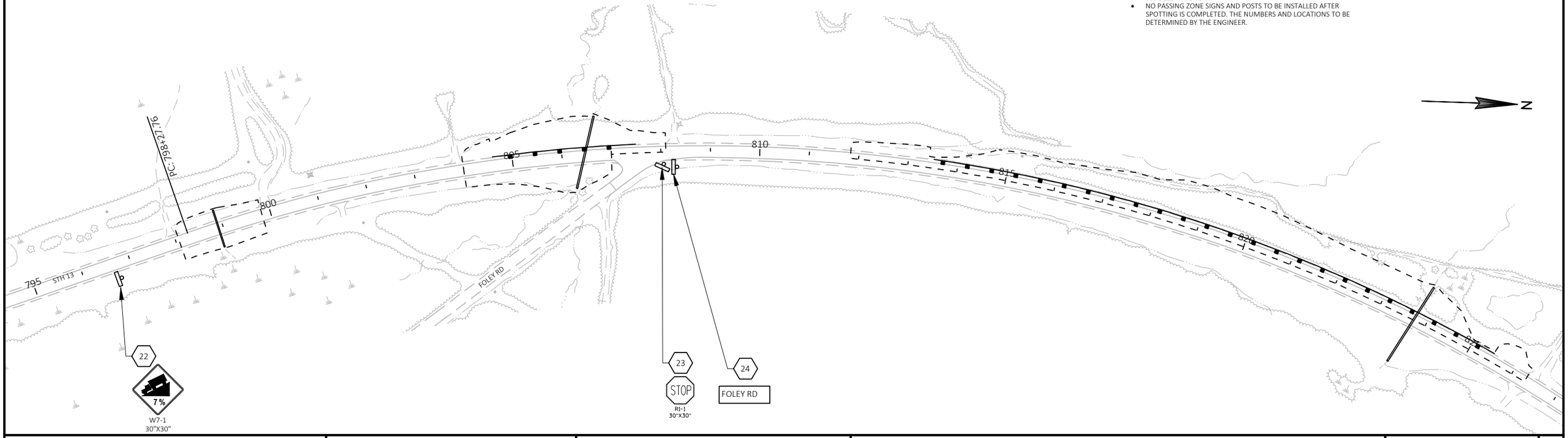
NOTES:

- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	SIGNING & MARKING (1610-08-76)	SHEET 31	E



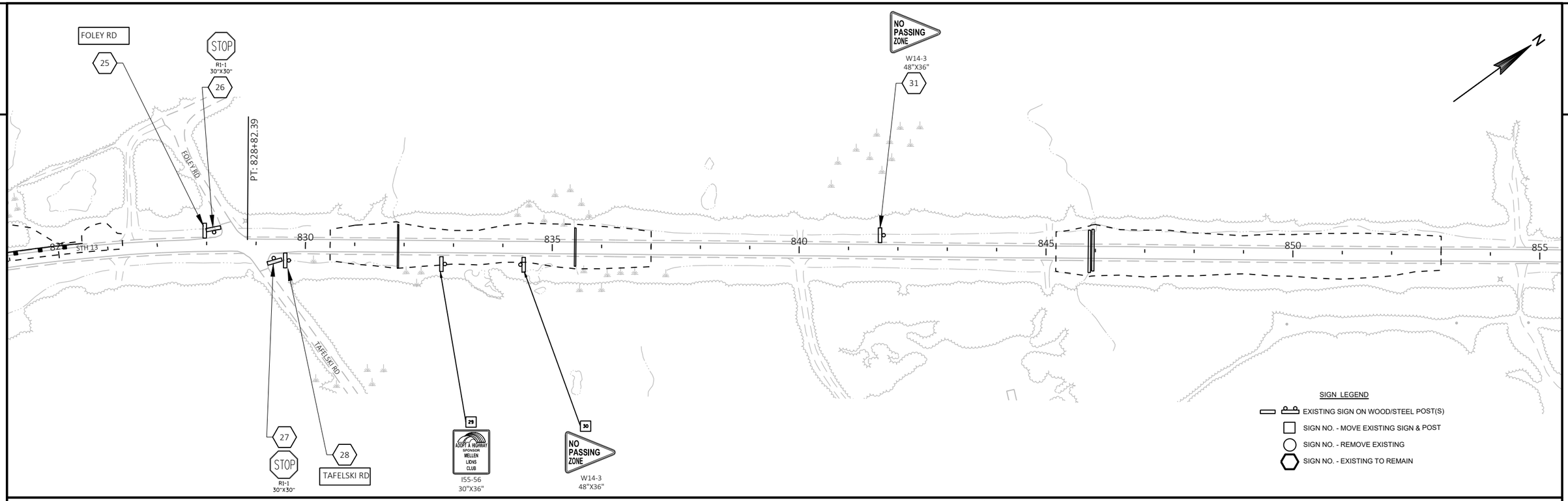
NOTES:
- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	SIGNING & MARKING (1610-08-76)	SHEET 32	E

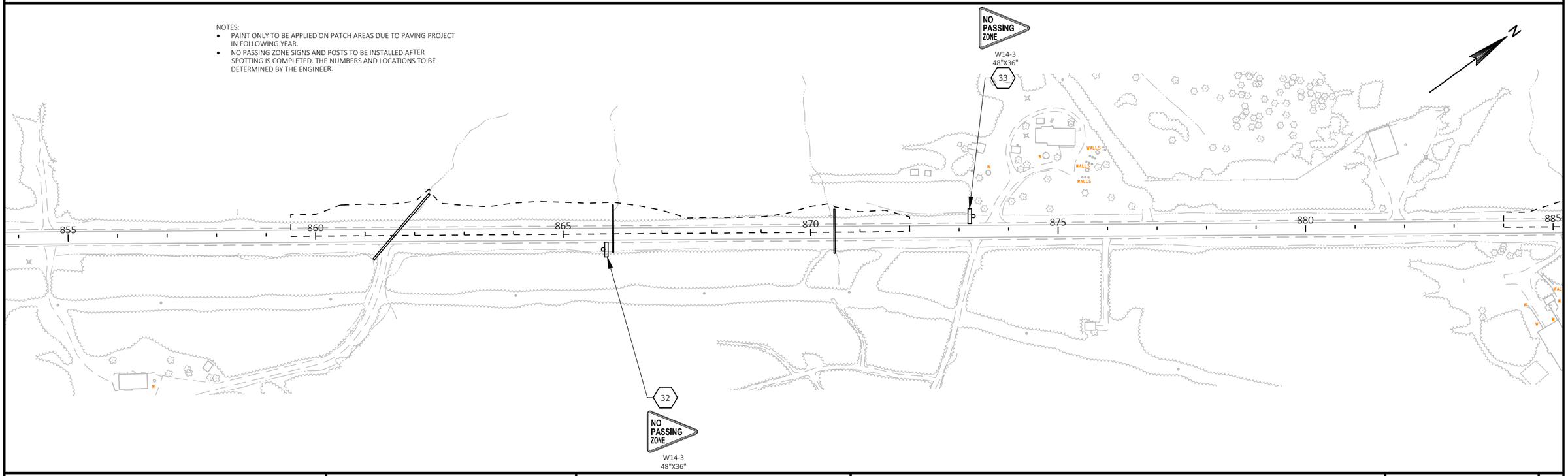
FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_S&M.DWG
LAYOUT NAME - S&M-3

PLOT DATE : 6/17/2019 2:25 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########



NOTES:

- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	SIGNING & MARKING (1610-08-76)	SHEET 33	E

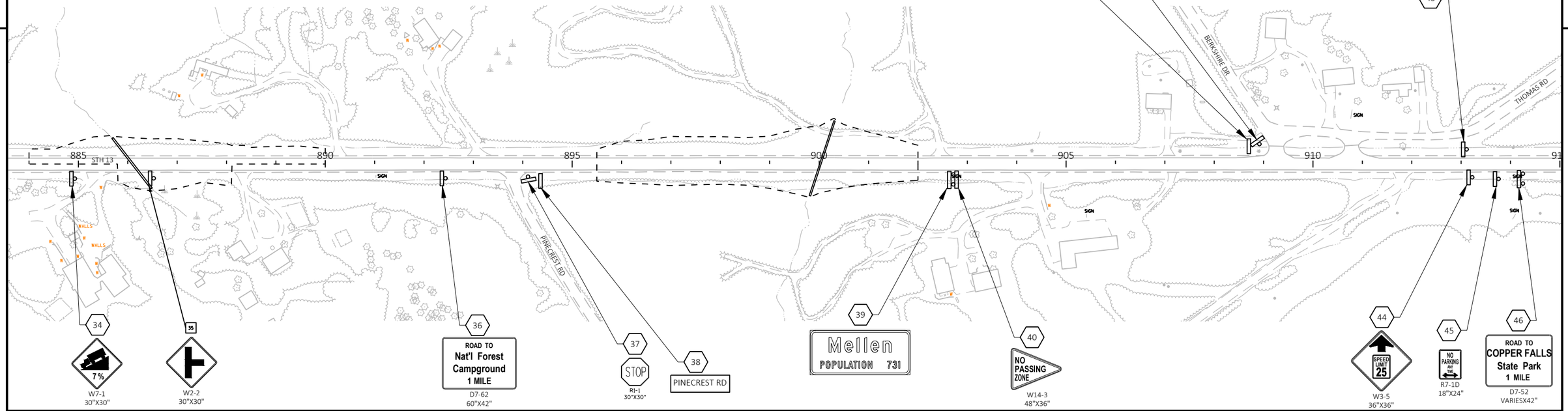
FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_S&M.DWG
LAYOUT NAME - S&M-4

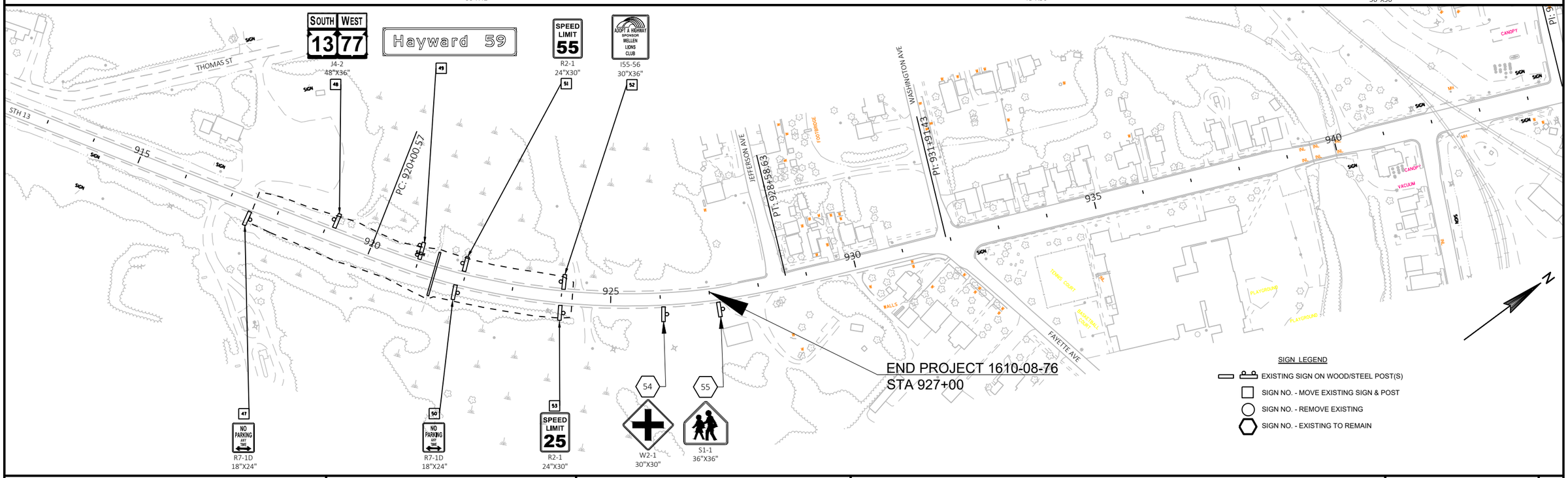
PLOT DATE : 6/17/2019 2:26 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

NOTES:

- PAINT ONLY TO BE APPLIED ON PATCH AREAS DUE TO PAVING PROJECT IN FOLLOWING YEAR.
- NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBERS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER.



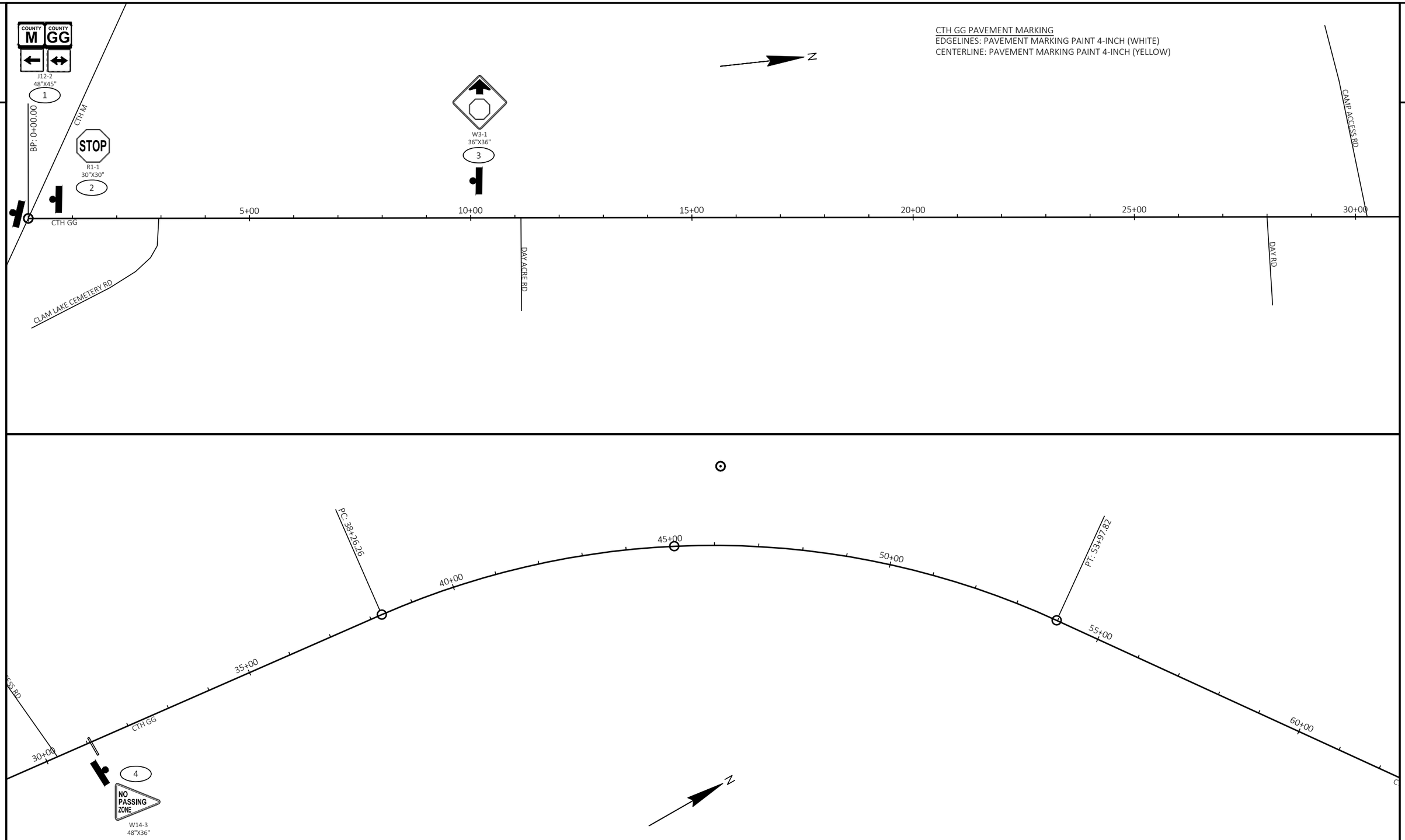


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	SIGNING & MARKING (1610-08-76)	SHEET 34	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_S&M.DWG
LAYOUT NAME - S&M-5

PLOT DATE : 6/17/2019 2:26 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

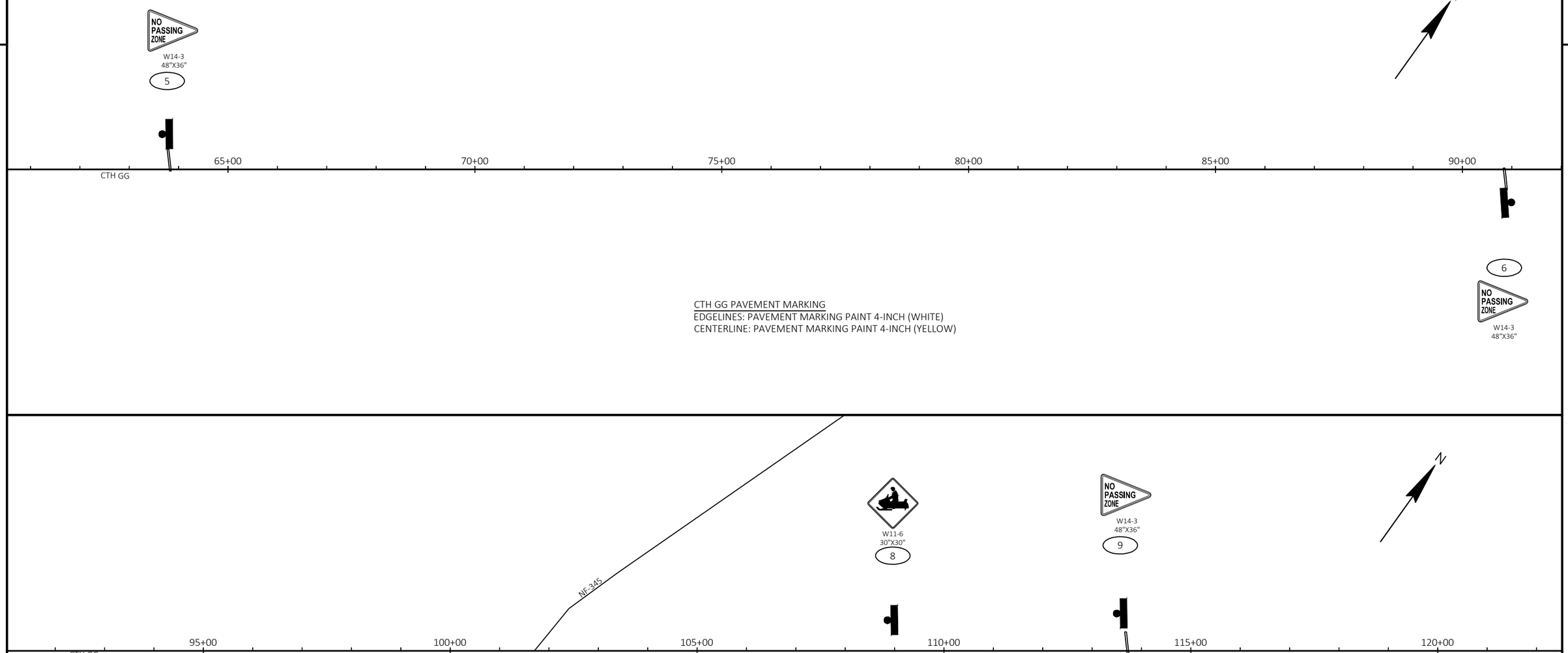
WISDOT/CADDS SHEET 44



2

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 35	E

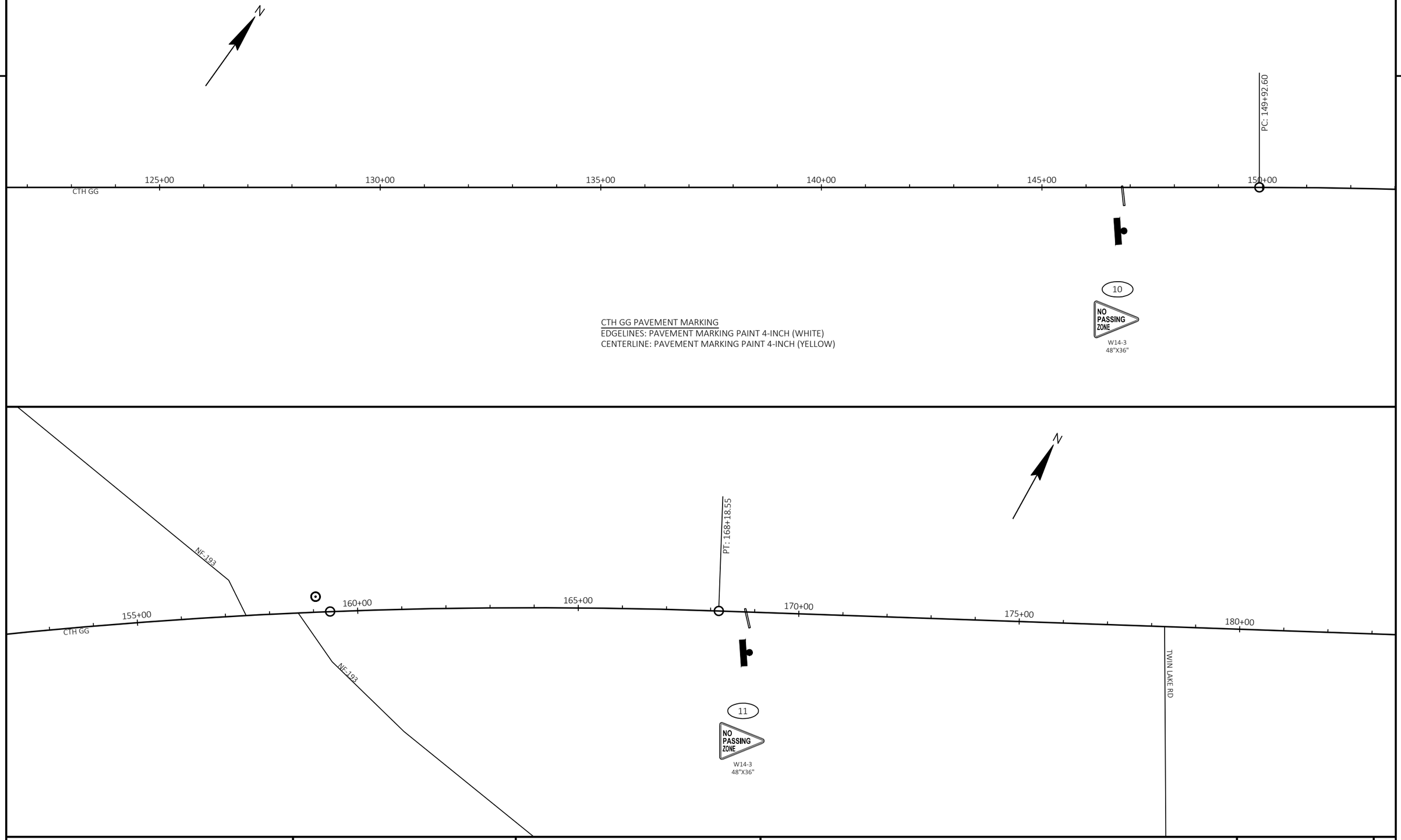
2



CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 36	E

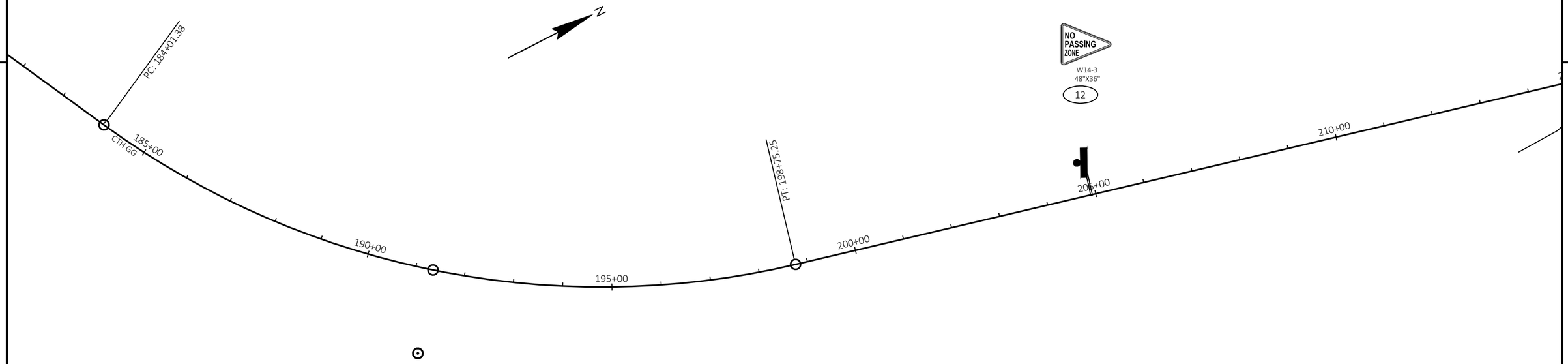
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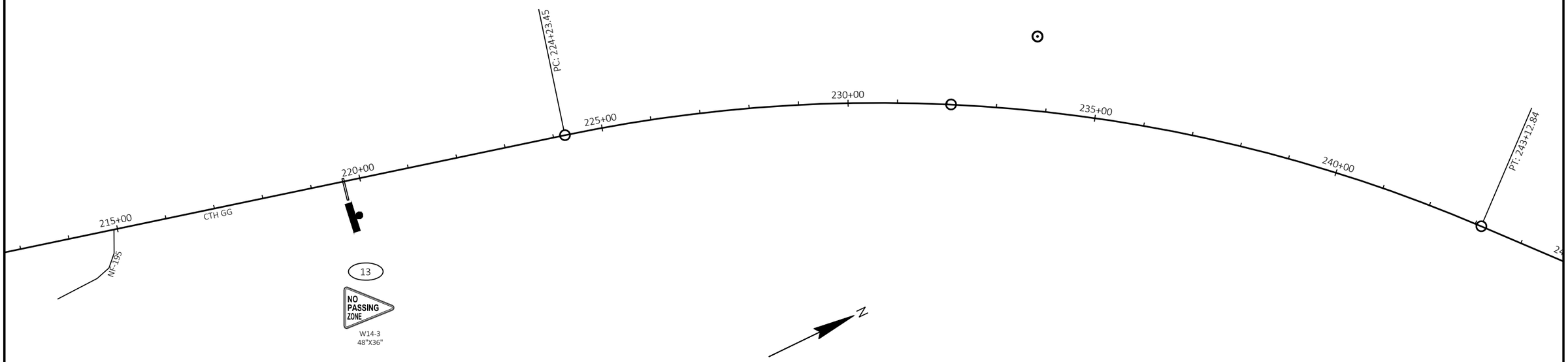
CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 37	E

2

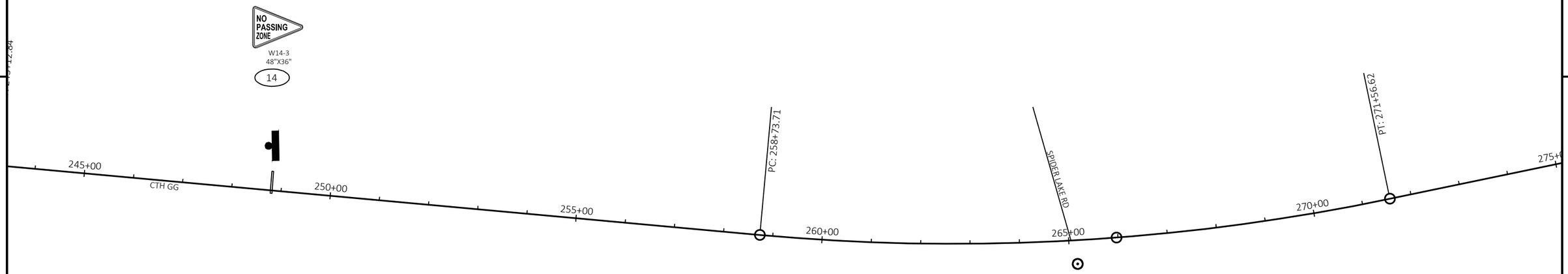


CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

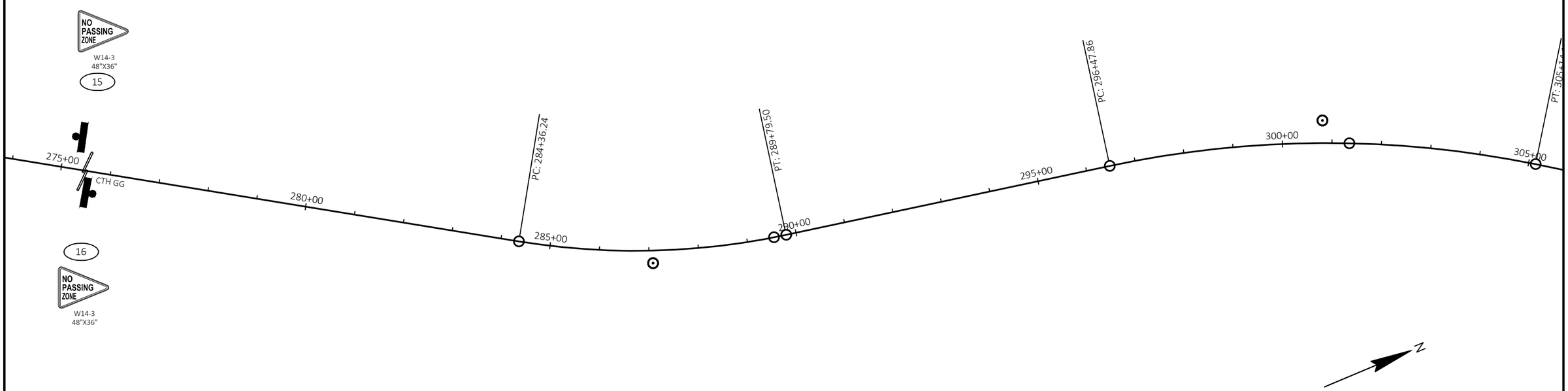


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 38	E

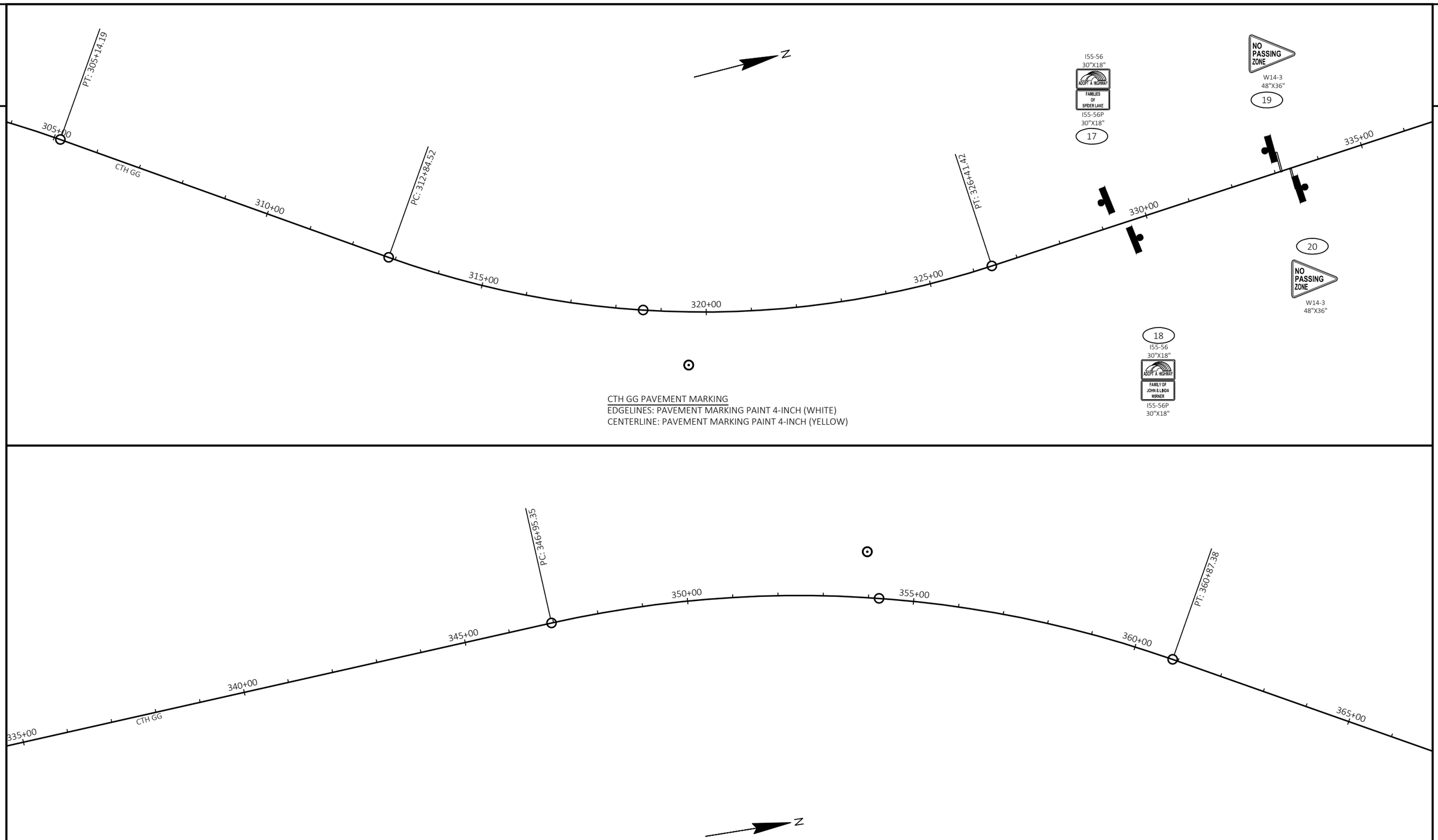
2



CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)



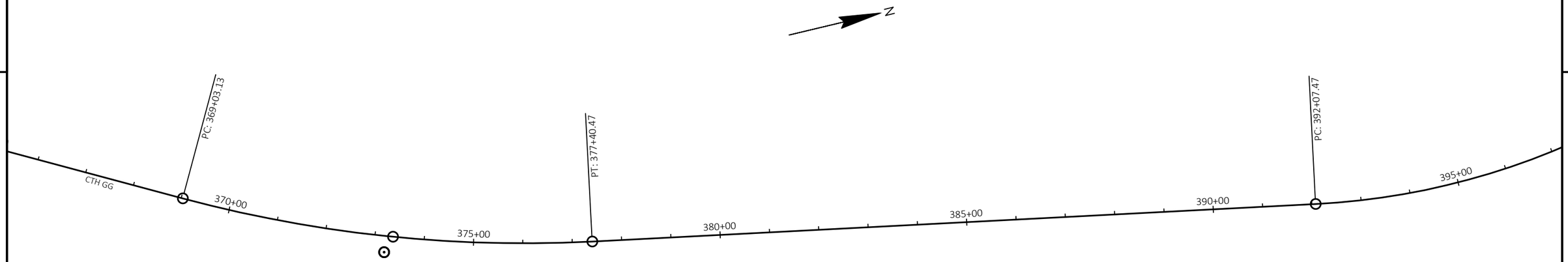
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 39	E



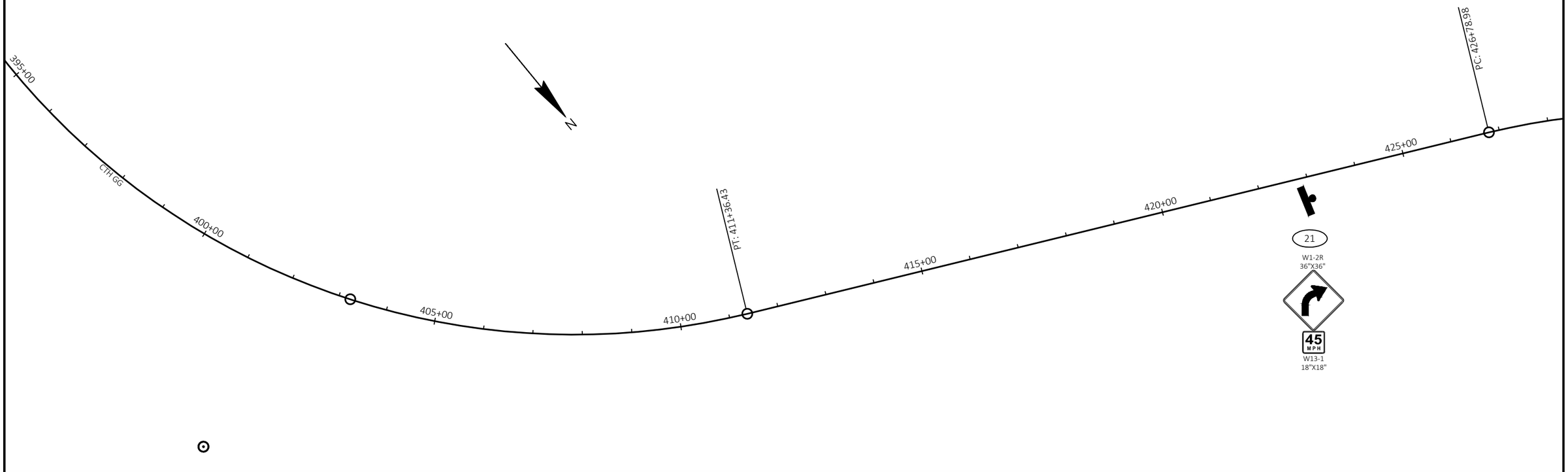
CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 40	E

2



CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 41	E

2

I55-56
30"X18"
ADOPT A HIGHWAY
FAMILY OF JOHN & LINDA WIRNER
I55-56P
30"X18"
22

NAMAKAGON RD

435+00

440+00

PT: 443+54.22

W1-2L
36"X36"
45 MPH
W13-1
18"X18"
8

445+00

PC: 449+27.69

450+00

455+00

N

6+78.98

CTH GG

430+00

425+00

CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

N

W5-52L
12"X36"
W5-52R
12"X36"

PT: 466+05.90

PC: 475+44.09

PT: 482+78.11

24
26

460+00
CTH GG

465+00

470+00

475+00

480+00

485+00

C

25
27

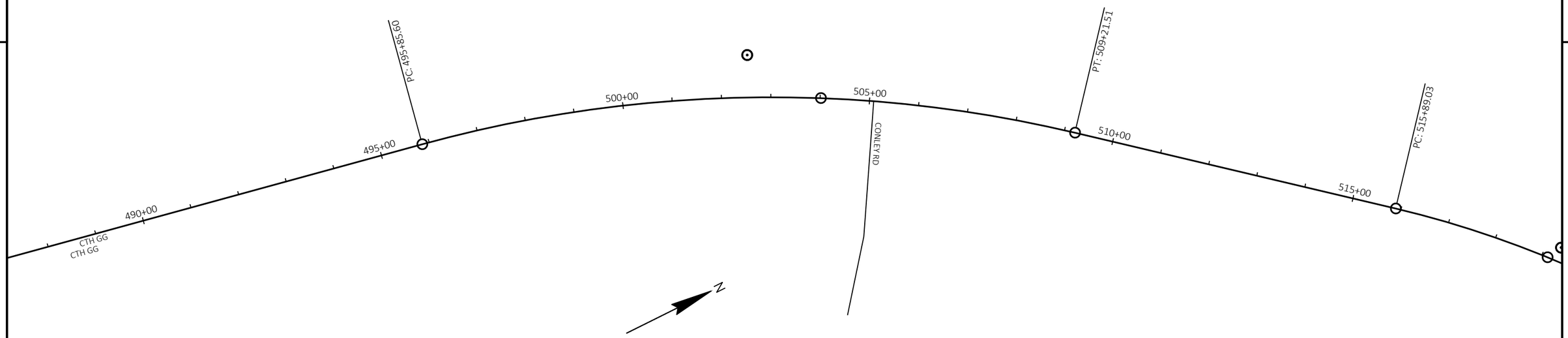
W5-52R
12"X36"
W5-52L
12"X36"

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 42	E

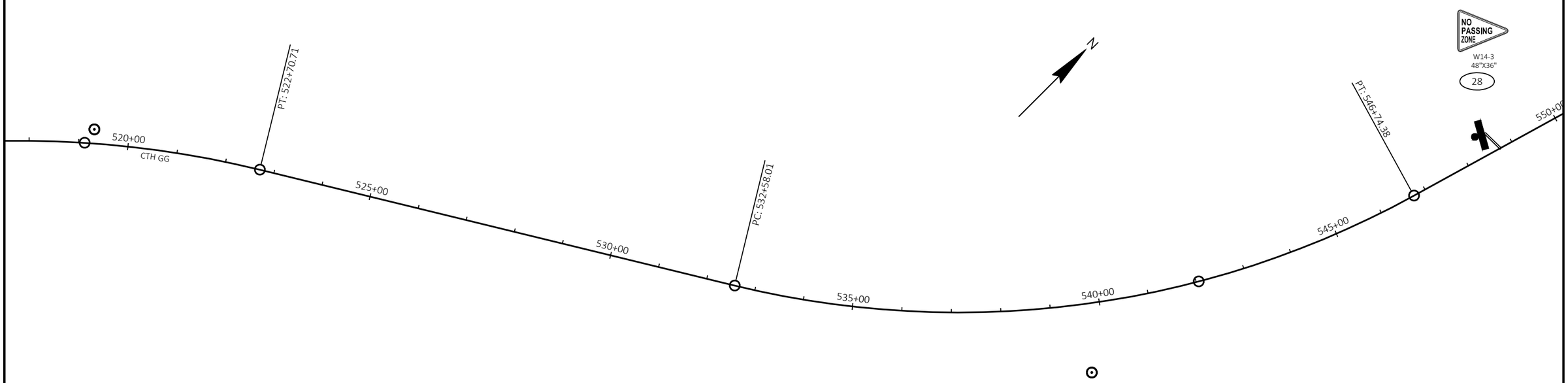
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_CTHGG.DWG
LAYOUT NAME - GG15

PLOT DATE : 7/31/2019 10:05 AM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

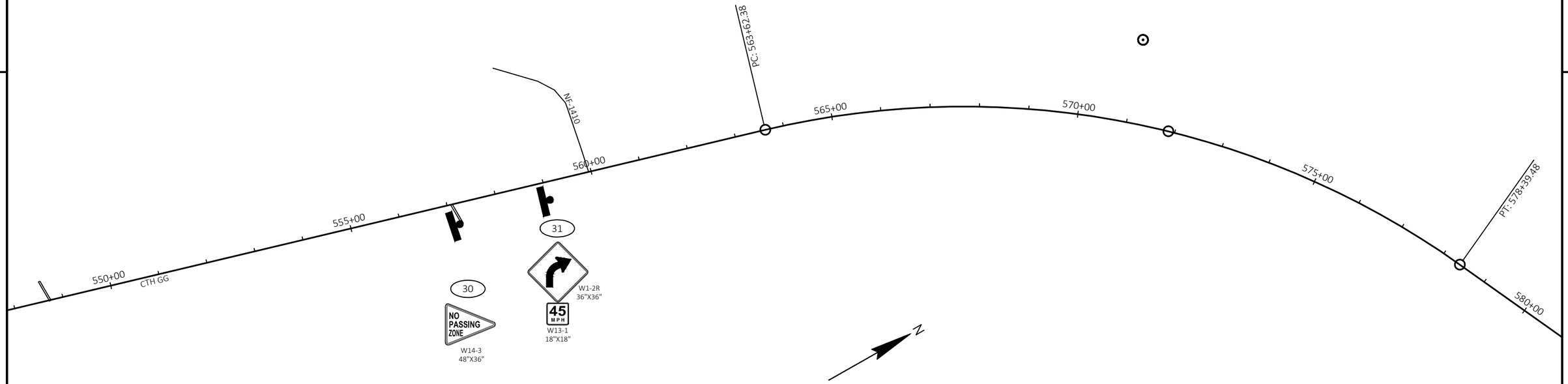


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 43	E

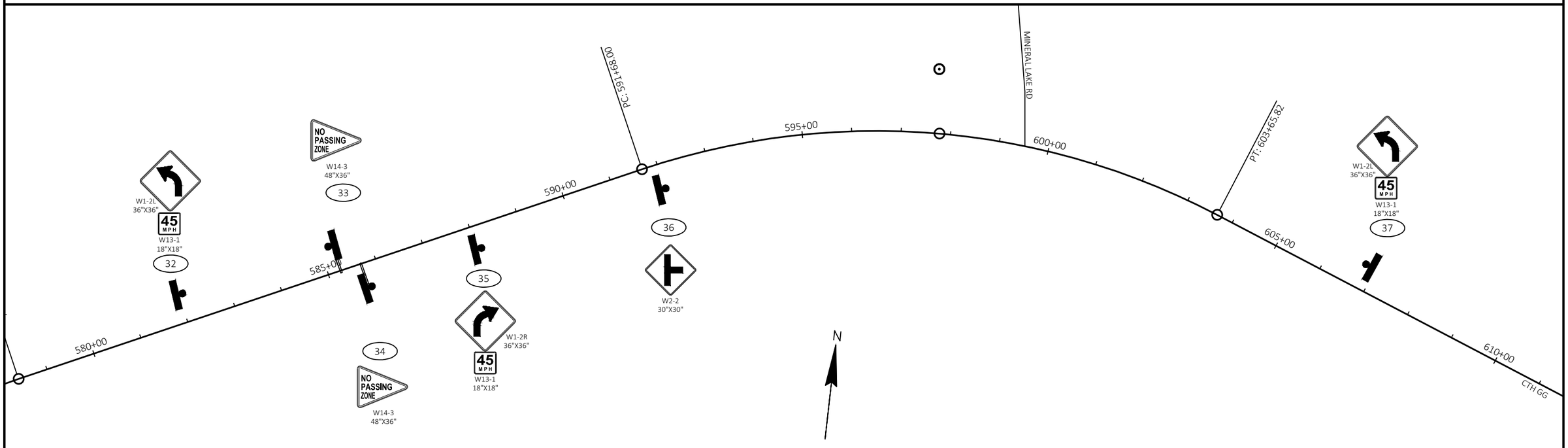
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_CTHGG.DWG
LAYOUT NAME - GG17

PLOT DATE : 7/31/2019 10:05 AM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

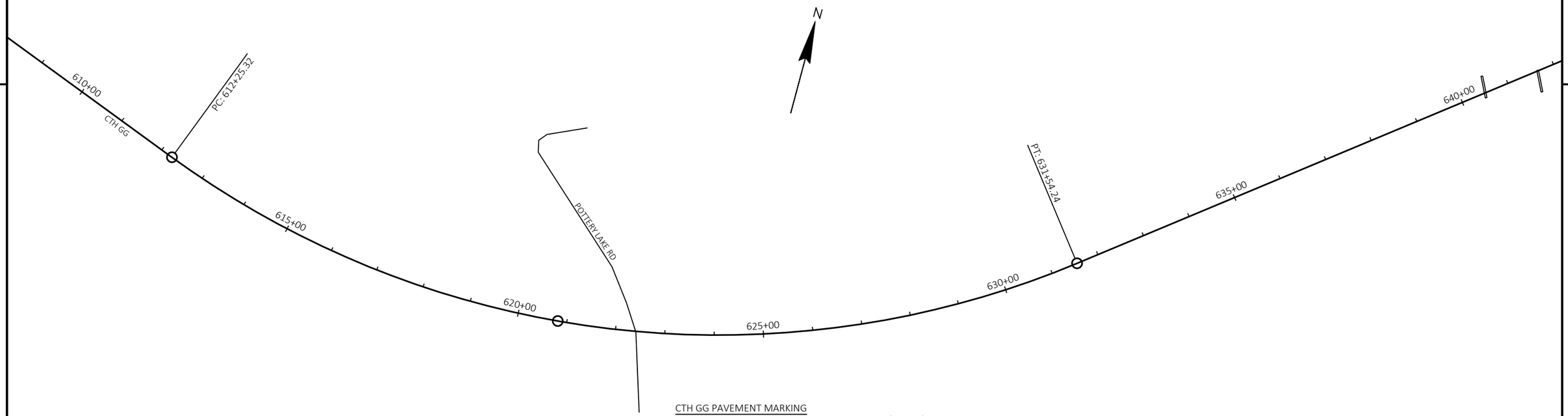


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 44	E

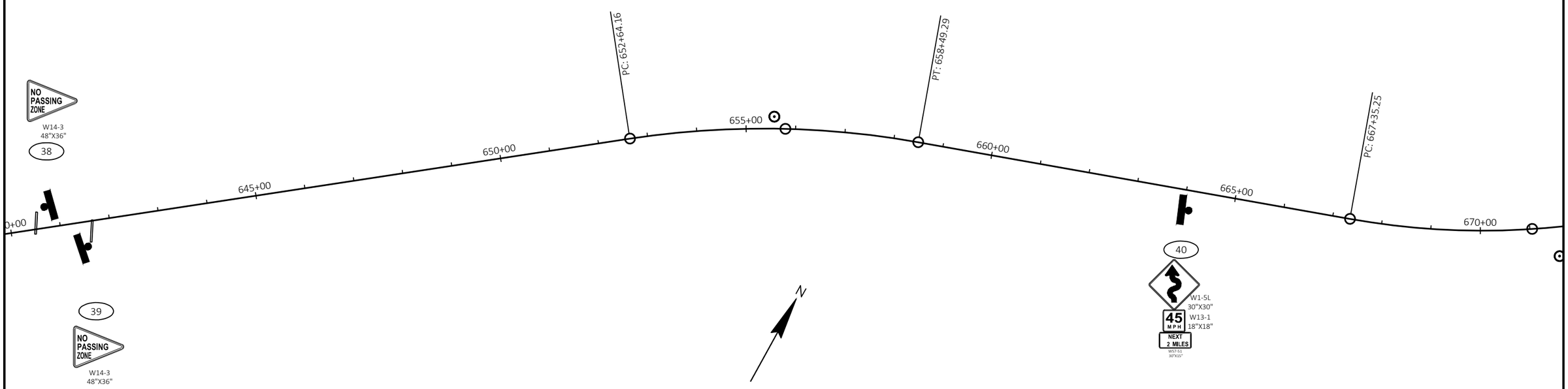
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_CTHGG.DWG
LAYOUT NAME - GG19

PLOT DATE : 7/31/2019 10:05 AM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

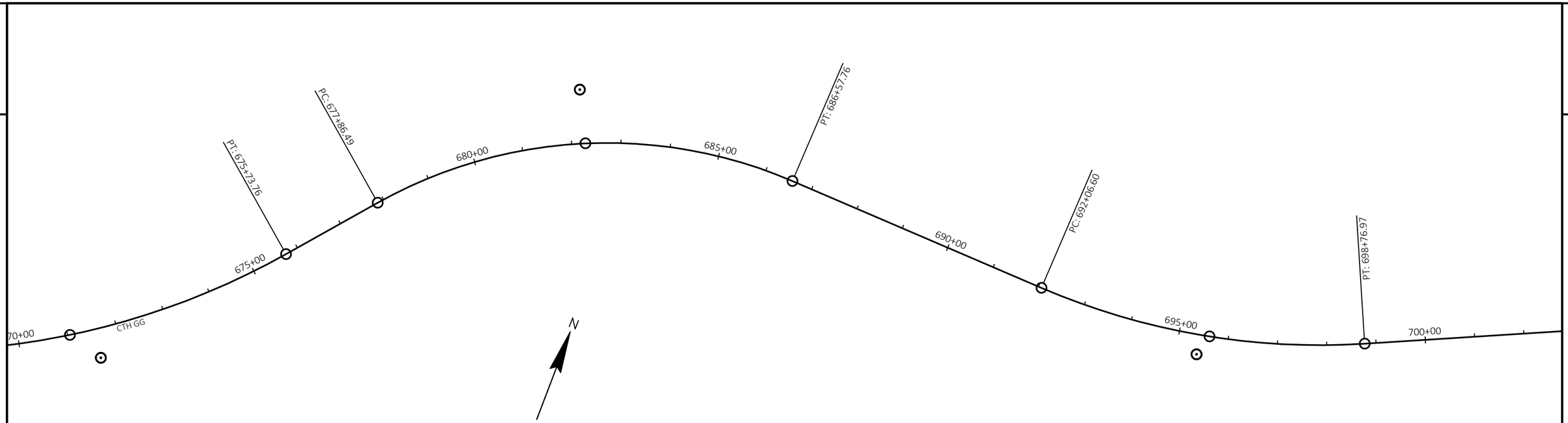


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 45	E

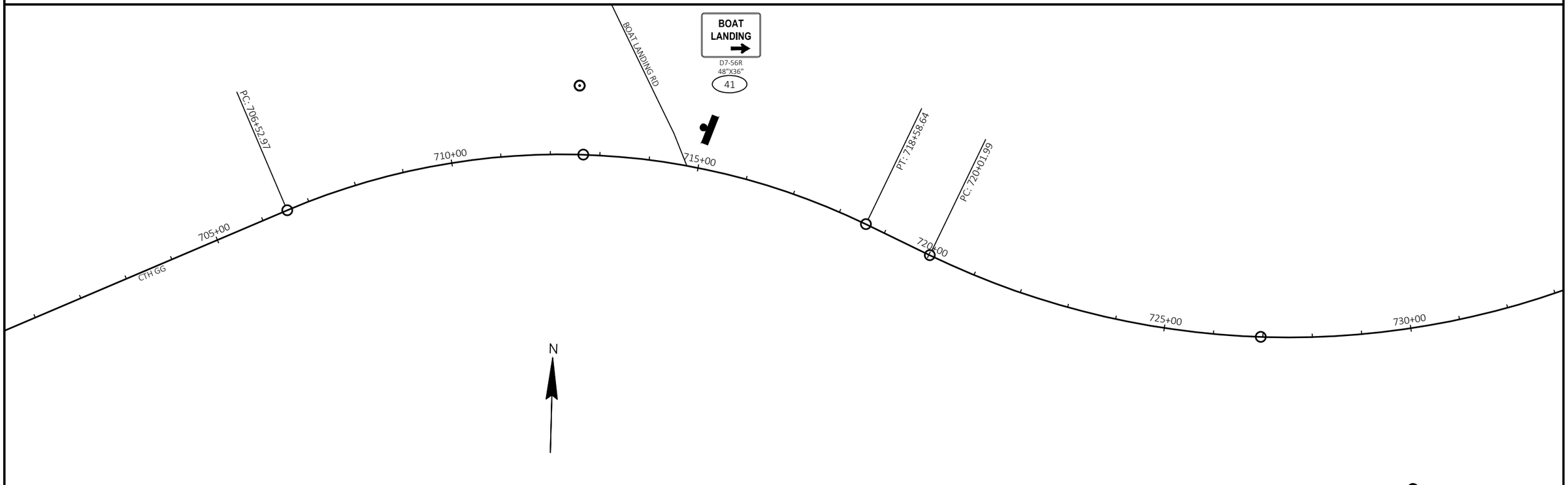
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_CTHGG.DWG
LAYOUT NAME - GG21

PLOT DATE : 7/31/2019 10:05 AM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

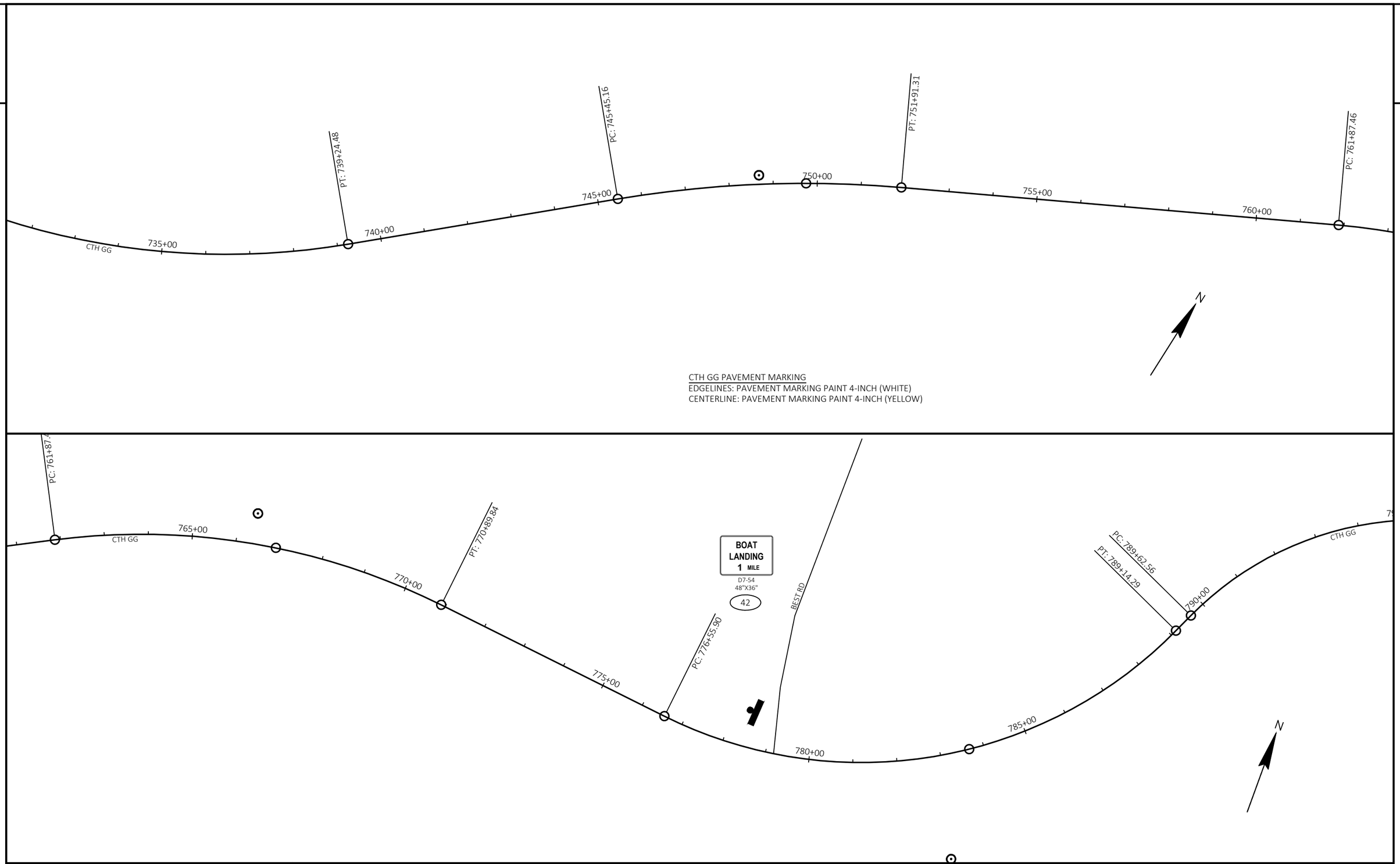


CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 46	E

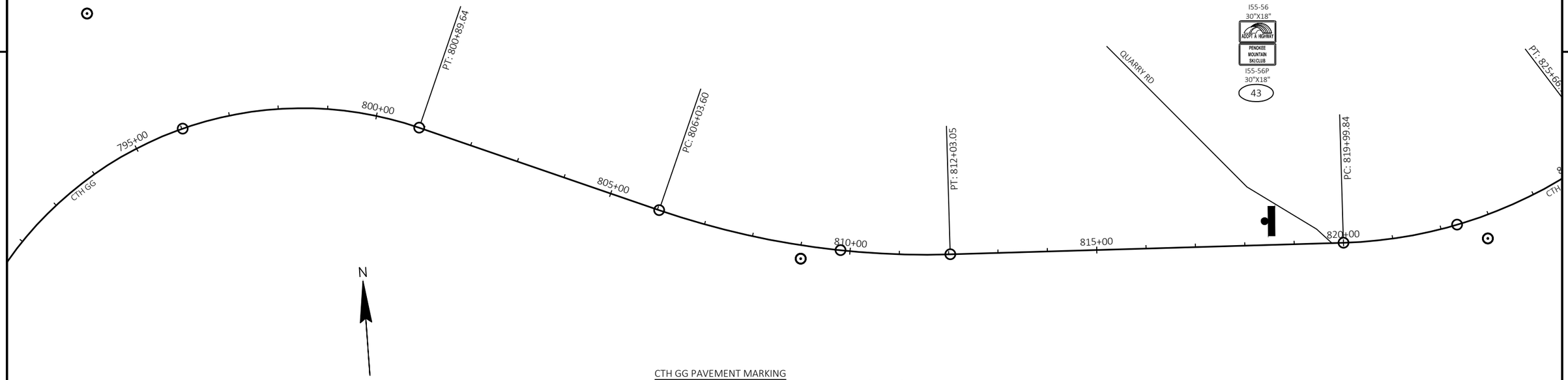
2



CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

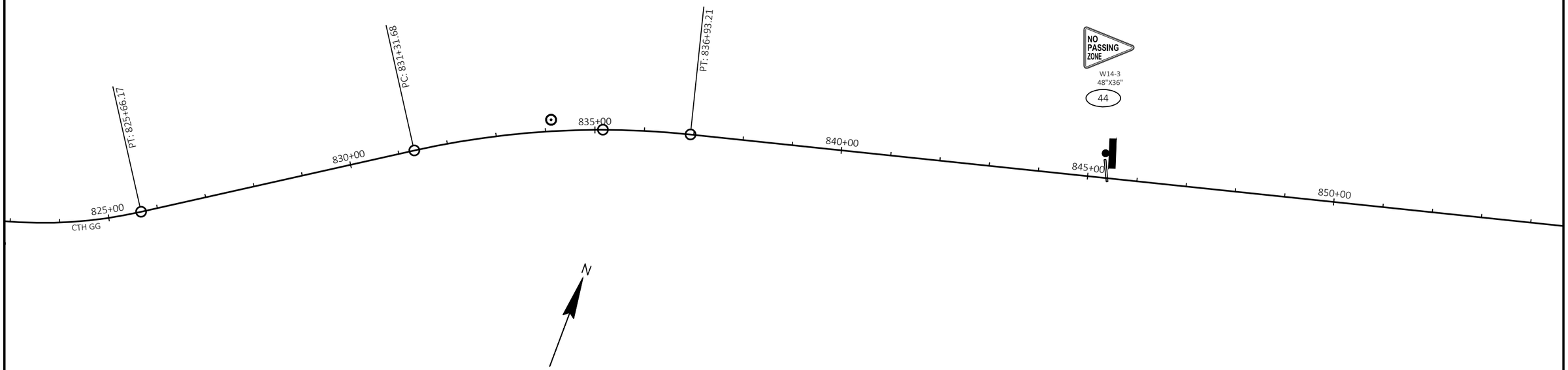
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 47	E

2

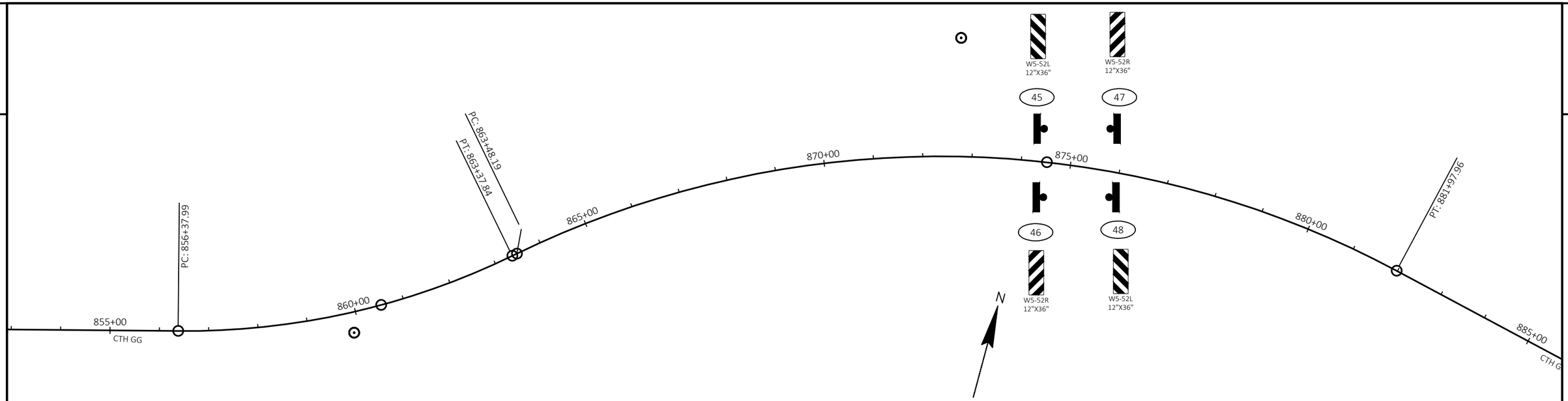


CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

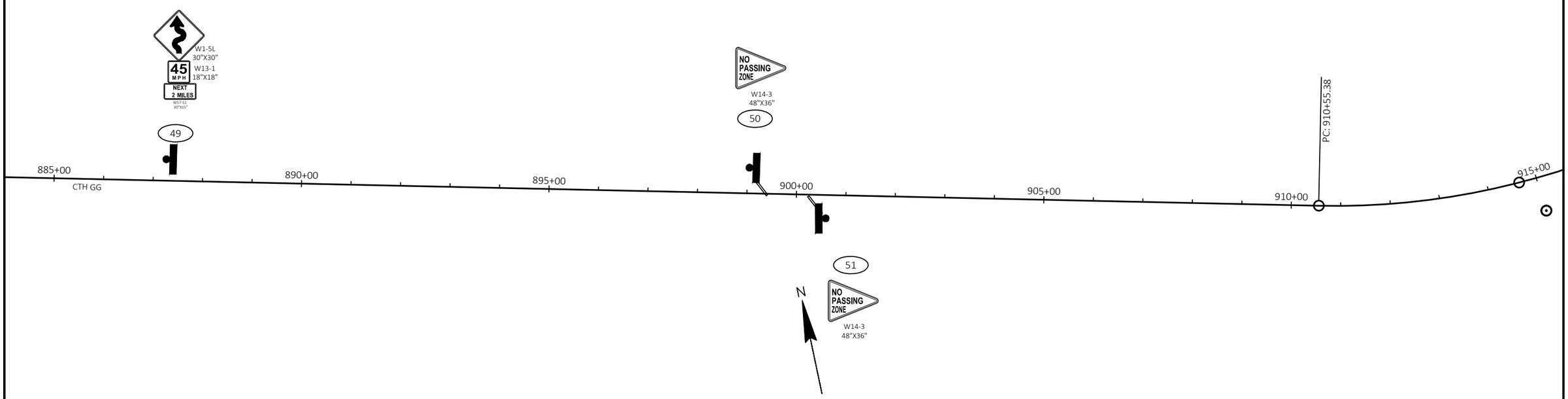
N



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 48	E



CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

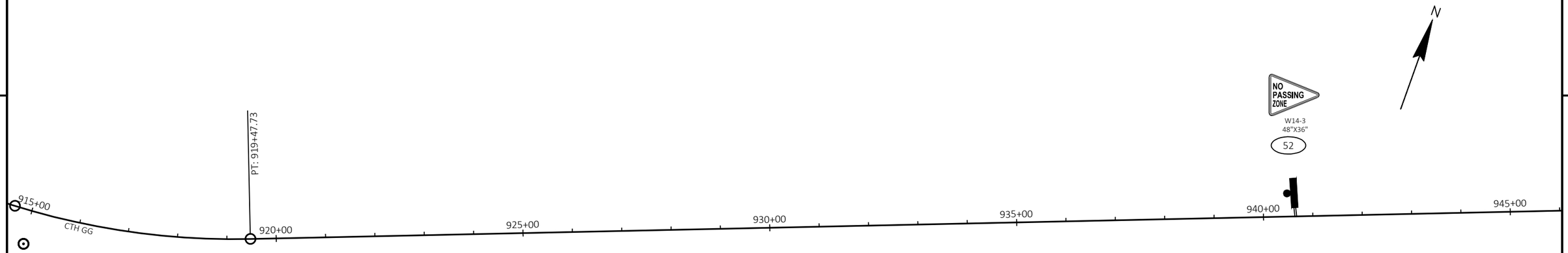


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 49	E

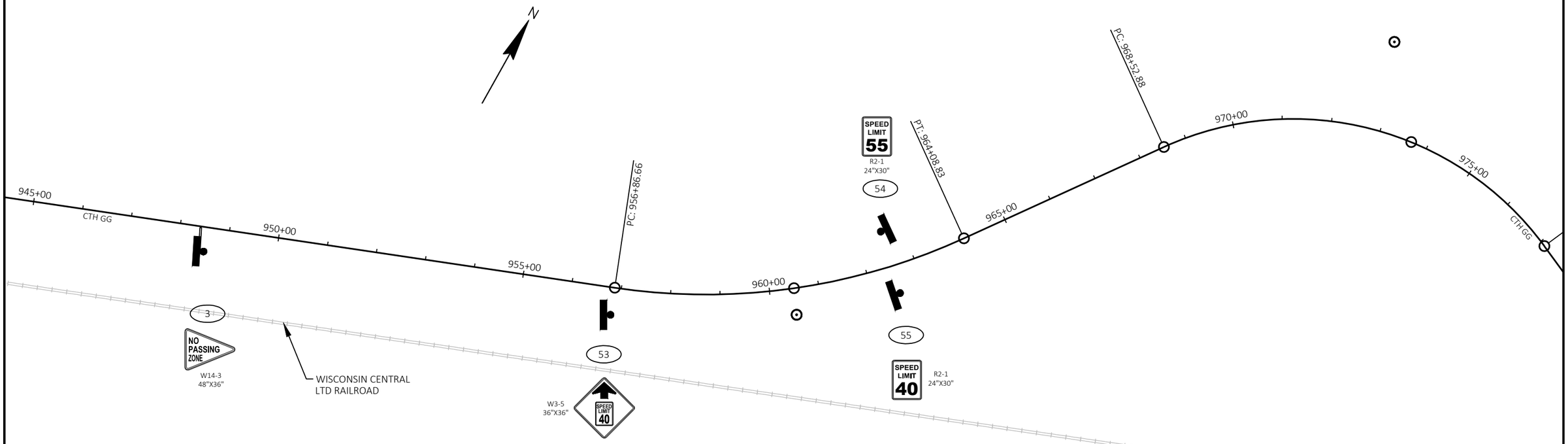
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_CTHGG.DWG
LAYOUT NAME - GG29

PLOT DATE : 7/31/2019 10:05 AM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 50	E

CTH GG PAVEMENT MARKING
EDGELINES: PAVEMENT MARKING PAINT 4-INCH (WHITE)
CENTERLINE: PAVEMENT MARKING PAINT 4-INCH (YELLOW)

N

975+00
CTH GG
PT: 977+12.16
PC: 979+24.90
980+00
985+00
990+00
995+00
1000+00
1005+00
PT: 1008+27.43
1010+00
1015+00
1020+00
PT: 1022+76.78
PC: 1020+67.62
PI: 1025+33.69
1025+00
EP: 1028+98.77
PT: 985+44.81
PC: 992+68.69
PC: 1001+77.99
PT: 1000+48.49
PT: 1008+27.43

WISCONSIN CENTRAL
LTD RAILROAD

WISCONSIN ST
CHICAGO AVE
MOORE ST
HAIRING ST
THOMAS ST
HILLCREST DR
STH 13

56 — SPEED LIMIT 25 — W3-5 36"X36"

57 — SPEED LIMIT 25 — R2-1 24"X30"

58 — I55-56 30"X18" (ACCOPT A RIDE/BIKE) — PENOKEE MOUNTAIN SKI CLUB — I55-56P 30"X18"

59 — SPEED LIMIT 40 — R2-1 24"X30"

60 — W10-1 36"X36" (RR)

61 — RAILROAD CROSSING — R15-1 48"X48" — TRACKS OUT OF SERVICE — R8-9 24"X30"

62 — R15-1 48"X48" (RAILROAD CROSSING) — TRACKS OUT OF SERVICE — R8-9 24"X30"

63 — W10-1 36"X36" (RR)

64 — SPEED LIMIT 25 — R2-1 24"X30"

65 — SPEED LIMIT 25 — R2-1 24"X30"

66 — SPEED LIMIT 25 — R2-1 24"X30"

67 — SPEED LIMIT 25 — R2-1 24"X30"

68 — SPEED LIMIT 25 — R2-1 24"X30"

69 — M1-5A 24"X24" (COUNTY GG)

70 — SPEED LIMIT 25 — R2-1 24"X30"

71 — W11-8 30"X30"

72 — SPEED LIMIT 25 — R2-1 24"X30"

73 — R1-1 30"X30" (STOP) — EXCEPT RIGHT TURN — R1-10P 24"X18"

74 — J12-1 24"X45" (COUNTY GG)

75 — J12-1 24"X45" (COUNTY GG)

76 — R1-1 30"X30" (STOP)

77 — END — M1-5A 24"X24" (COUNTY GG)

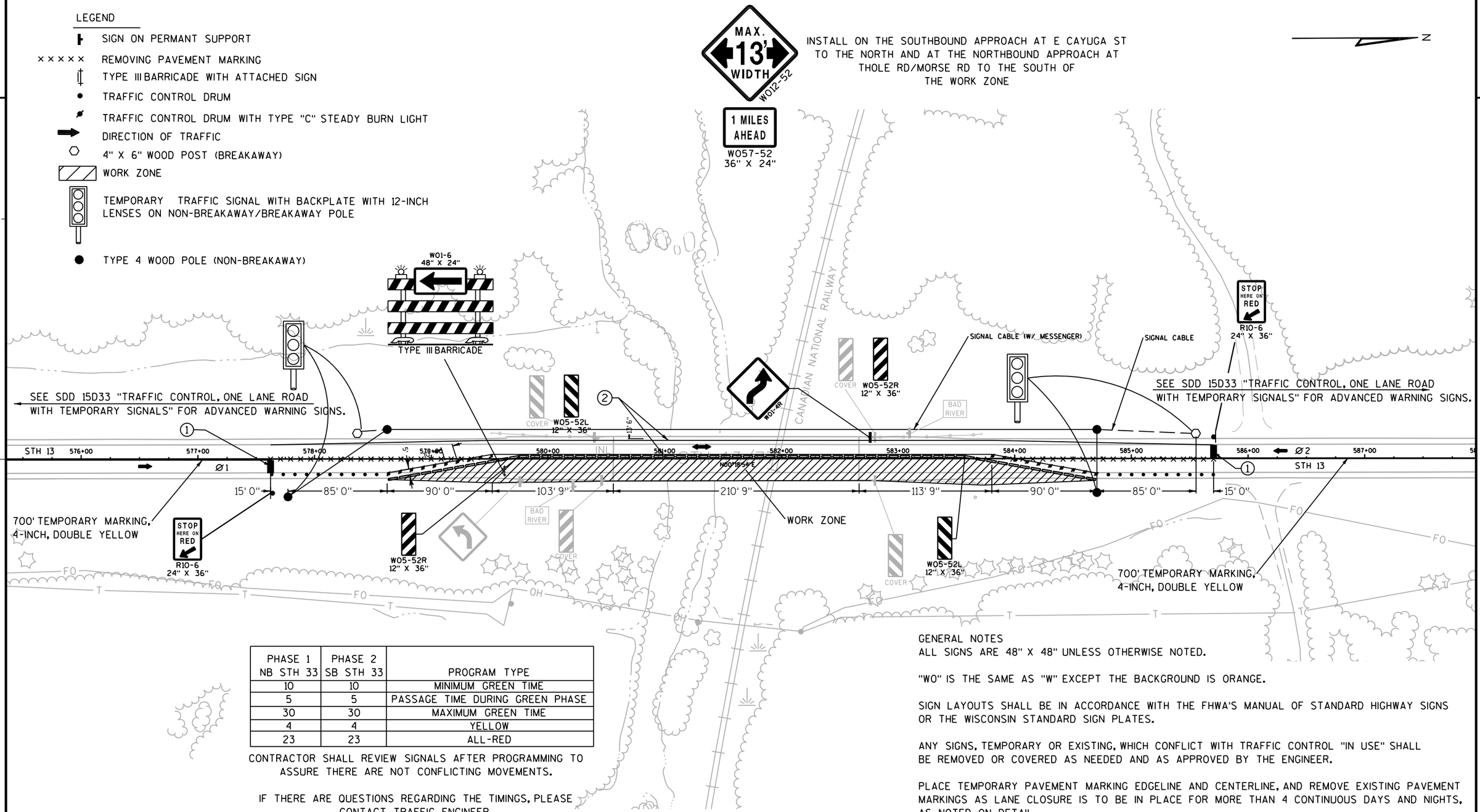
78 — D7-53L 54"X36" (COPPER FALLS State Park)

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CTH GG PERMANENT SIGNING	SHEET 51	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_CTHGG.DWG
LAYOUT NAME - GG33
PLOT DATE : 7/31/2019 10:05 AM
PLOT BY : JENSEN, TRAVIS G
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

LEGEND

- SIGN ON PERMANT SUPPORT
- ××××× REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- 4" X 6" WOOD POST (BREAKAWAY)
- WORK ZONE
- TEMPORARY TRAFFIC SIGNAL WITH BACKPLATE WITH 12-INCH LENSES ON NON-BREAKAWAY/BREAKAWAY POLE
- TYPE 4 WOOD POLE (NON-BREAKAWAY)



PHASE 1 NB STH 33	PHASE 2 SB STH 33	PROGRAM TYPE
10	10	MINIMUM GREEN TIME
5	5	PASSAGE TIME DURING GREEN PHASE
30	30	MAXIMUM GREEN TIME
4	4	YELLOW
23	23	ALL-RED

CONTRACTOR SHALL REVIEW SIGNALS AFTER PROGRAMMING TO ASSURE THERE ARE NOT CONFLICTING MOVEMENTS.

IF THERE ARE QUESTIONS REGARDING THE TIMINGS, PLEASE CONTACT TRAFFIC ENGINEER.

PAVEMENT MARKING NOTES

① TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
② TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH EDGELINE

GENERAL NOTES
ALL SIGNS ARE 48" X 48" 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 TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

PLACE TEMPORARY PAVEMENT MARKING EDGELINE AND CENTERLINE, AND REMOVE EXISTING PAVEMENT MARKINGS AS LANE CLOSURE IS TO BE IN PLACE FOR MORE THAN 4 CONTINUOUS DAYS AND NIGHTS, AS NOTED ON DETAIL.

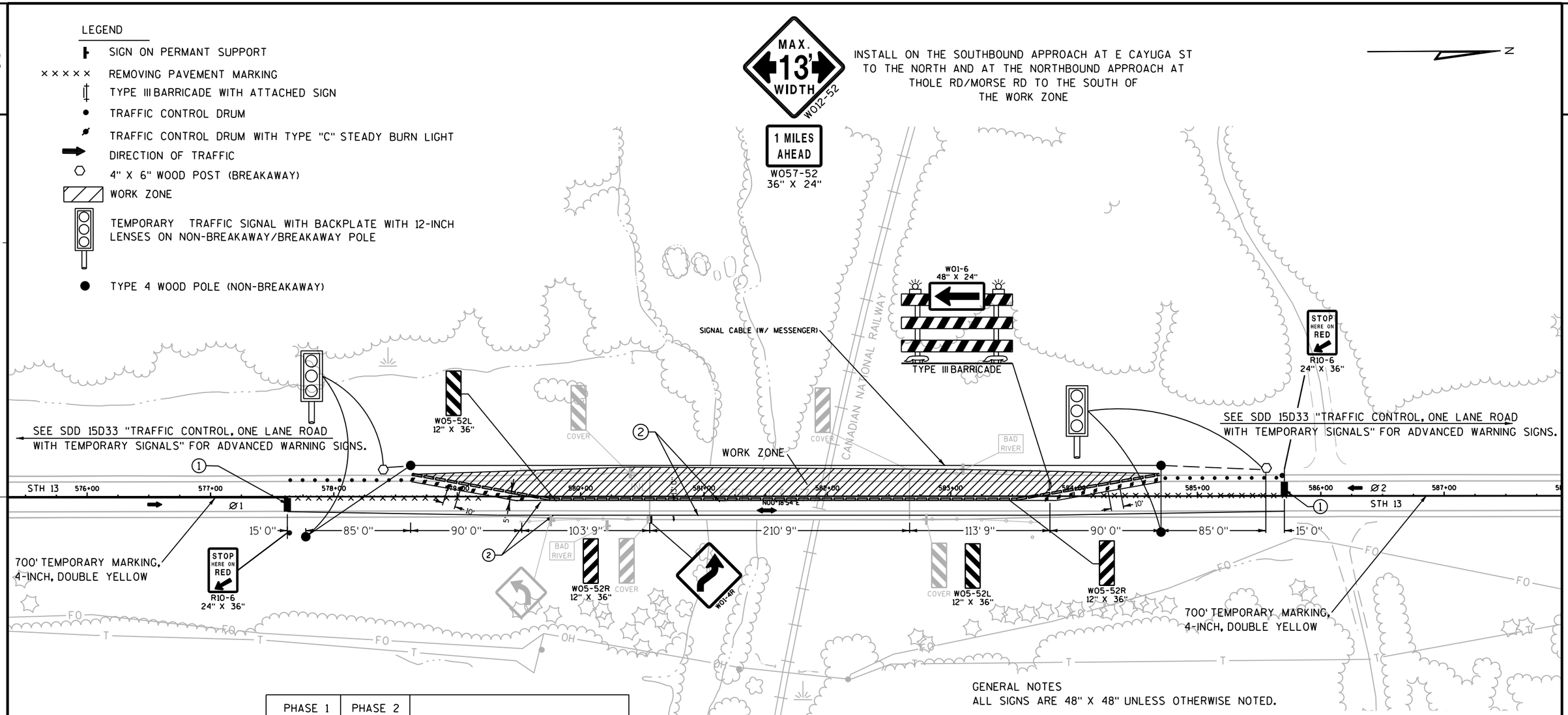
INSTALL NON-INTRUSIVE DETECTION SYSTEM ON STH 13 TO ACTUATE TRAFFIC FLOW.

OFFSET DISTANCE FOR TEMPORARY NON-BREAKAWAY POLES BASED ON WISDOT SDD 9G2-A (BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION).

PROJECT NO: 1610-11-73	HWY: STH 13 & 77	COUNTY: ASHLAND	TRAFFIC CONTROL - NORTHBOUND CLOSURE	SHEET 52	E

LEGEND

- SIGN ON PERMANT SUPPORT
- REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- 4" X 6" WOOD POST (BREAKAWAY)
- WORK ZONE
- TEMPORARY TRAFFIC SIGNAL WITH BACKPLATE WITH 12-INCH LENSES ON NON-BREAKAWAY/BREAKAWAY POLE
- TYPE 4 WOOD POLE (NON-BREAKAWAY)



PHASE 1 NB STH 33	PHASE 2 SB STH 33	PROGRAM TYPE
10	10	MINIMUM GREEN TIME
5	5	PASSAGE TIME DURING GREEN PHASE
30	30	MAXIMUM GREEN TIME
4	4	YELLOW
23	23	ALL-RED

CONTRACTOR SHALL REVIEW SIGNALS AFTER PROGRAMMING TO ASSURE THERE ARE NOT CONFLICTING MOVEMENTS.

IF THERE ARE QUESTIONS REGARDING THE TIMINGS, PLEASE CONTACT TRAFFIC ENGINEER.

PAVEMENT MARKING NOTES

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② TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH EDGELINE

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PLACE TEMPORARY PAVEMENT MARKING EDGELINE AND CENTERLINE, AND REMOVE EXISTING PAVEMENT MARKINGS AS LANE CLOSURE IS TO BE IN PLACE FOR MORE THAN 4 CONTINUOUS DAYS AND NIGHTS, AS NOTED ON DETAIL.

INSTALL NON-INTRUSIVE DETECTION SYSTEM ON STH 13 TO ACTUATE TRAFFIC FLOW.

OFFSET DISTANCE FOR TEMPORARY NON-BREAKAWAY POLES BASED ON WISDOT SDD 9G2-A (BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION).

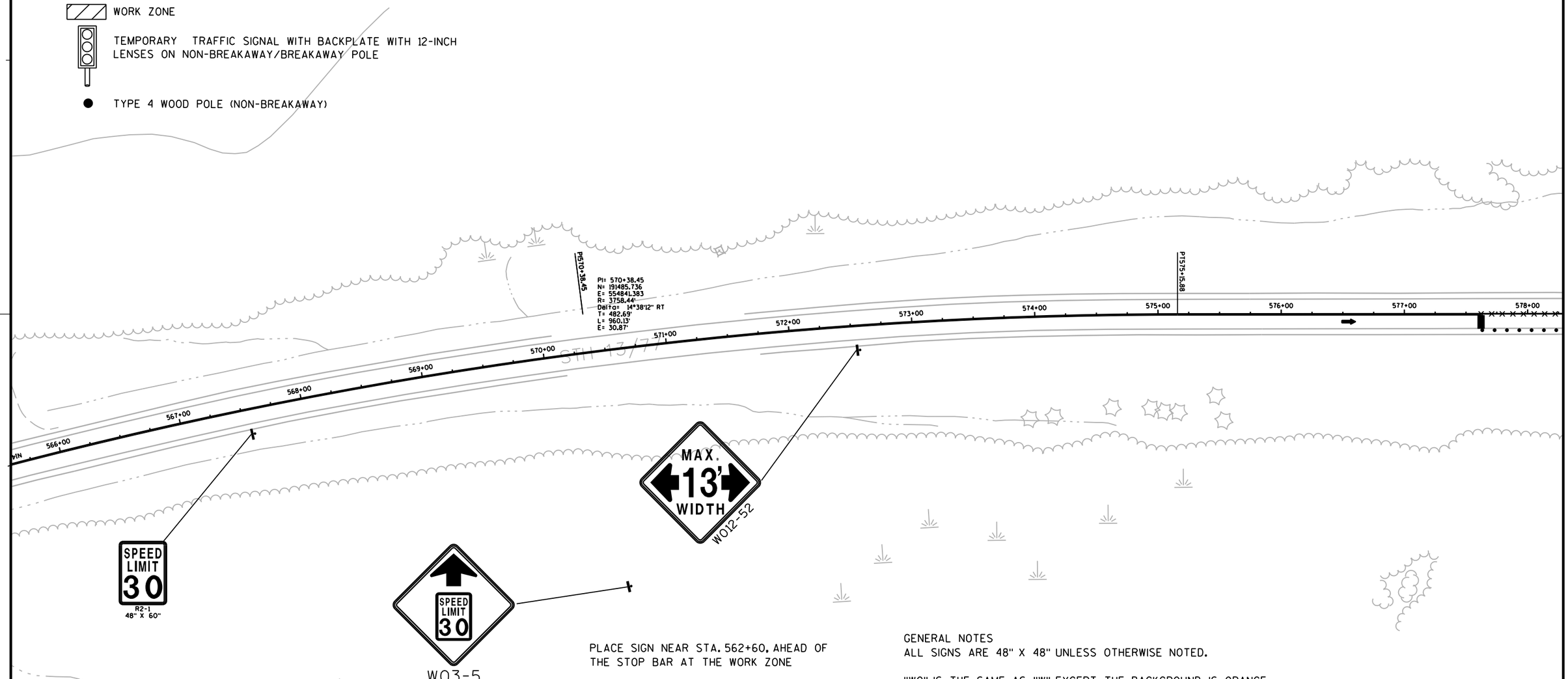
PROJECT NO: 1610-11-73	HWY: STH 13 & 77	COUNTY: ASHLAND	TRAFFIC CONTROL - SOUTHBOUND CLOSURE	SHEET 53	E

2

LEGEND

- SIGN ON PERMANT SUPPORT
- ××××× REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- 4" X 6" WOOD POST (BREAKAWAY)
- WORK ZONE
- TEMPORARY TRAFFIC SIGNAL WITH BACKPLATE WITH 12-INCH LENSES ON NON-BREAKAWAY/BREAKAWAY POLE
- TYPE 4 WOOD POLE (NON-BREAKAWAY)

N



PLACE SIGN NEAR STA. 562+60, AHEAD OF THE STOP BAR AT THE WORK ZONE

GENERAL NOTES

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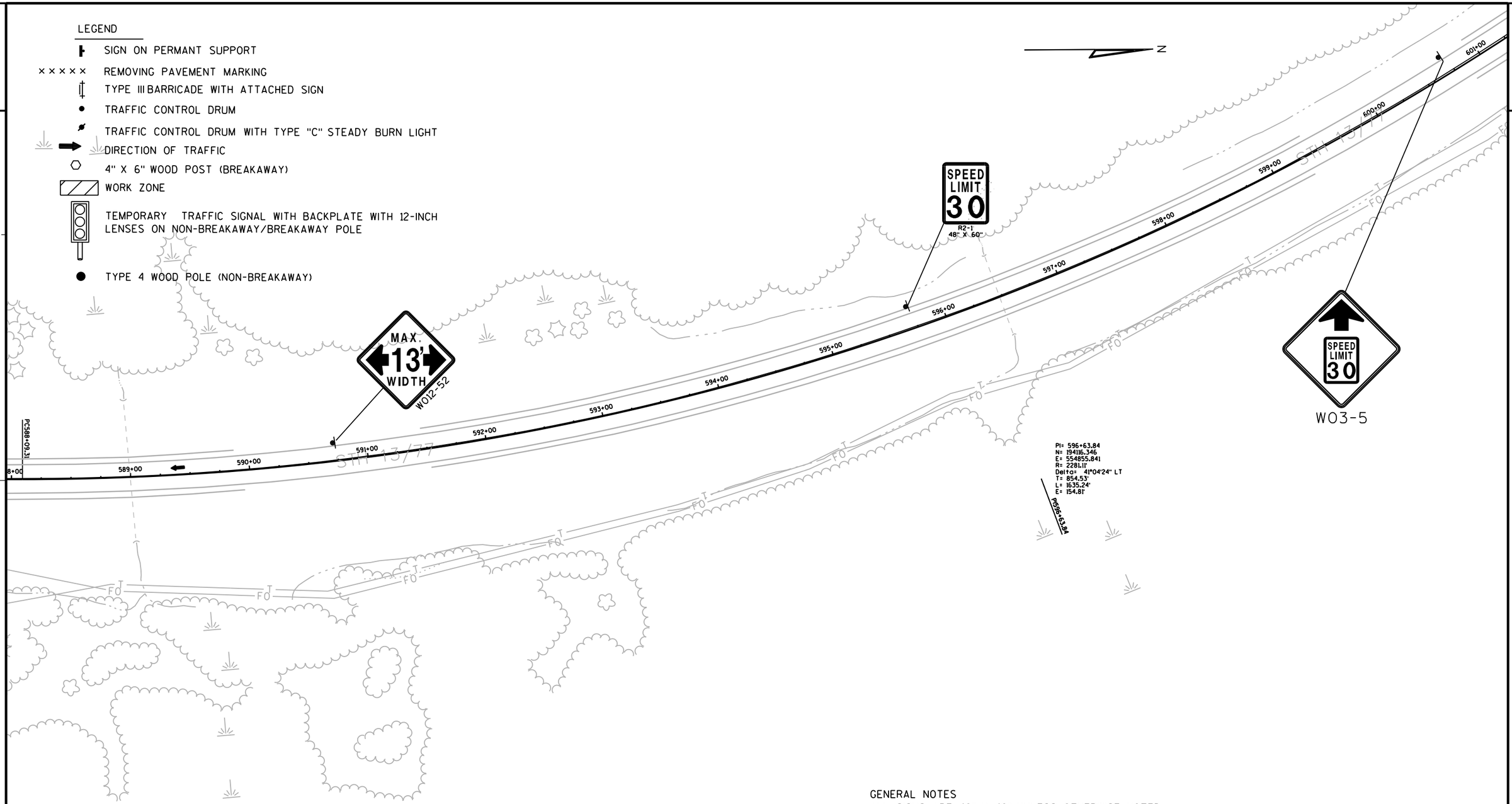
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

PLACEMENT OF TRAFFIC CONTROL SIGNS SHALL NOT CONFLICT WITH SIGNS AS SHOWN IN SDD 1533-06 "TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS".

PROJECT NO: 1610-11-73	HWY: STH 13 & 77	COUNTY: ASHLAND	TRAFFIC CONTROL - NORTHBOUND WORK ZONE SIGNS	SHEET 54	E

LEGEND

- SIGN ON PERMANT SUPPORT
- ××××× REMOVING PAVEMENT MARKING
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- DIRECTION OF TRAFFIC
- 4" X 6" WOOD POST (BREAKAWAY)
- WORK ZONE
- TEMPORARY TRAFFIC SIGNAL WITH BACKPLATE WITH 12-INCH LENSES ON NON-BREAKAWAY/BREAKAWAY POLE
- TYPE 4 WOOD POLE (NON-BREAKAWAY)



GENERAL NOTES

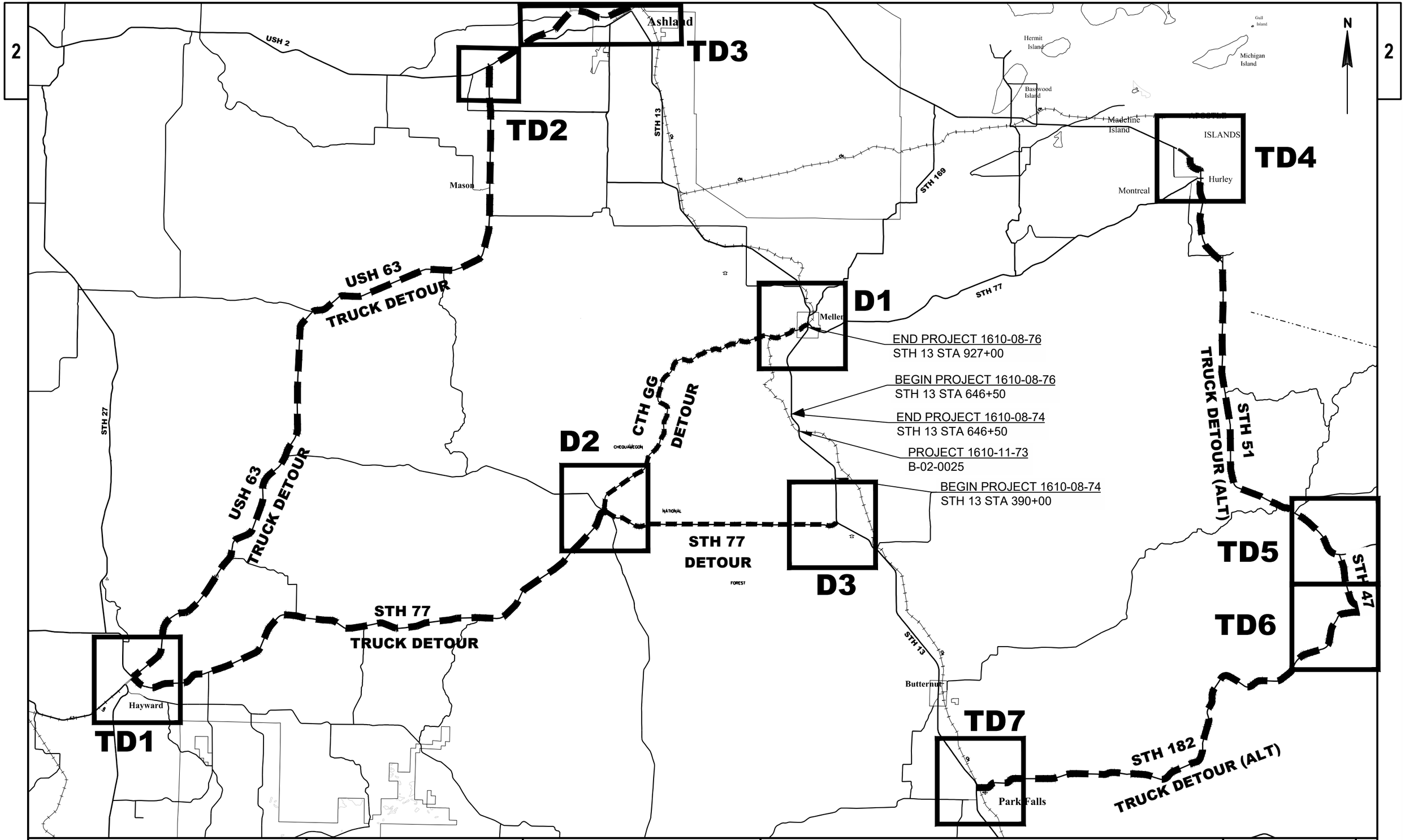
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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PLACEMENT OF TRAFFIC CONTROL SIGNS SHALL NOT CONFLICT WITH SIGNS AS SHOWN IN SDD 1533-06 "TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS".

PROJECT NO: 1610-11-73	HWY: STH 13 & 77	COUNTY: ASHLAND	TRAFFIC CONTROL - SOUTHBOUND WORK ZONE SIGNS	SHEET 55	E



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	DETOUR OVERVIEW	SHEET	E

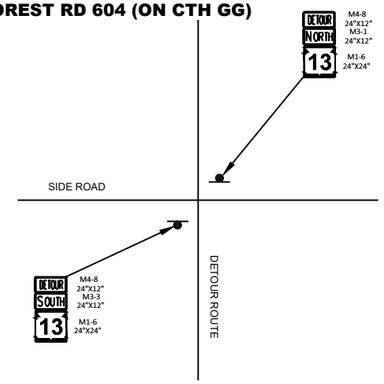
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_DETOUR.DWG
LAYOUT NAME - DET-1

PLOT DATE : 6/17/2019 2:55 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

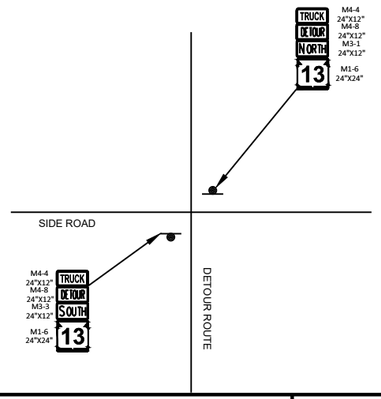
CAR DETOUR REASSURANCES TO BE PLACED AT THE FOLLOWING LOCATIONS:

- **FOREST RD 166 (ON STH 77)**
- **E TORCH RIVER - 66757 WI 77, GLIDDEN WI, 54527 (ON STH 77)**
- **FOREST RD 346 (ON STH 77)**
- **E TWIN LAKE RD / FOREST RD 190 (ON CTH GG)**
- **SPIDER LAKE RD (ON CTH GG)**
- **NAMEKAGON RD (ON CTH GG)**
- **FOREST RD 186 (ON CTH GG)**
- **FOREST RD 604 (ON CTH GG)**



TRUCK DETOUR REASSURANCES TO BE PLACED AT THE FOLLOWING LOCATIONS:

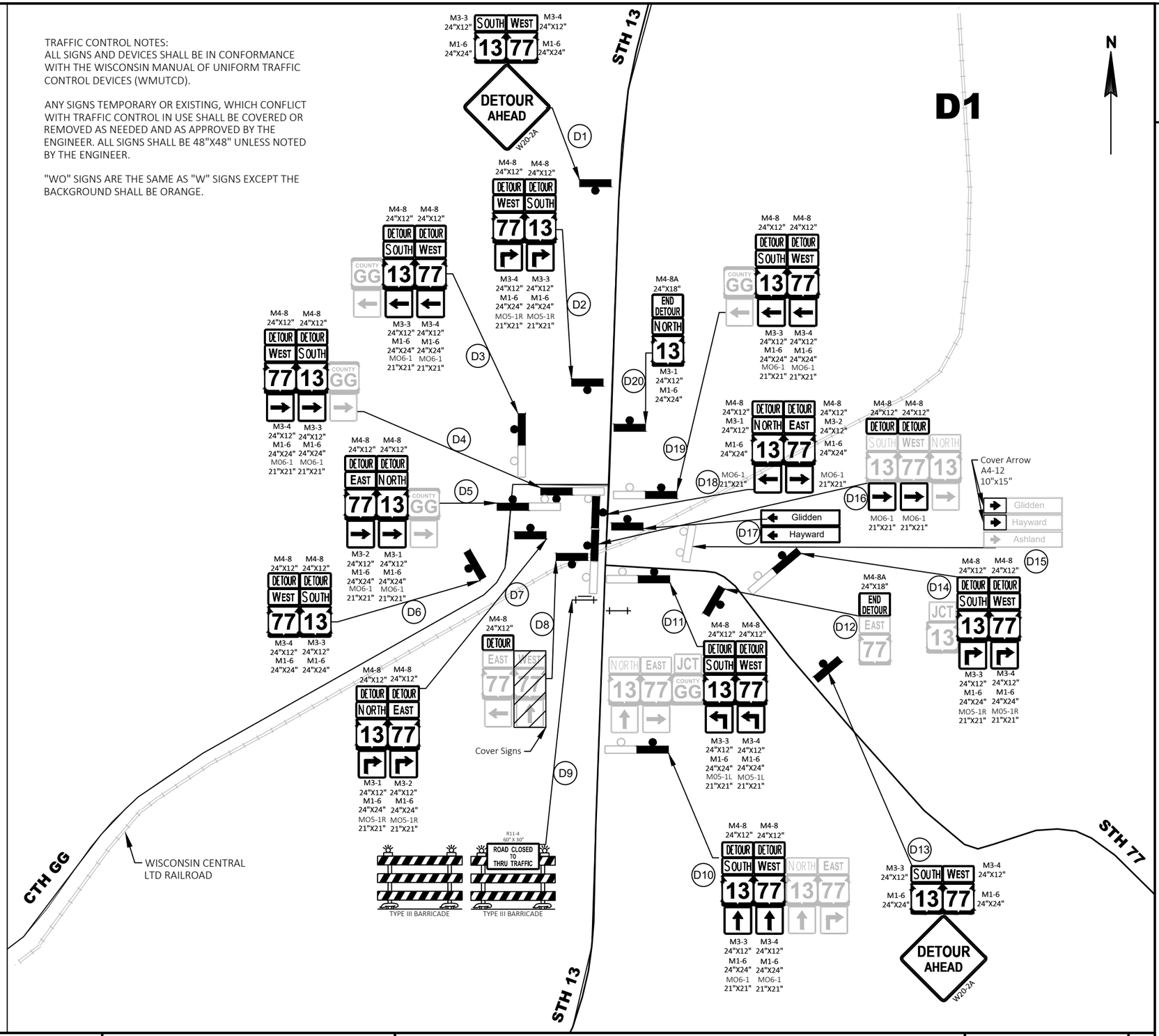
- **FOREST RD 166 (ON STH 77)**
- **E TORCH RIVER - 66757 WI 77, GLIDDEN, WI 54527 (ON STH 77)**
- **FOREST RD 346 (ON STH 77)**
- **FOREST RD 208 (ON STH 77)**
- **FOREST RD 175 (ON STH 77)**
- **CTH S (ON STH 77)**
- **FOREST RD 320 (ON STH 77)**
- **N. COUNTY ROAD A (ON STH77)**
- **CTH OO (ON STH 77)**
- **W TWIN LAKE RD (ON STH 77)**
- **CTH K (ON STH 77)**
- **HATCHERY RD (ON STH 77)**
- **PHIPPS RD (ON USH 63)**
- **MOSQUITO BROOK RD (ON USH 63)**
- **OLD MILL RD (ON USH 63)**
- **CTH M (ON USH 63)**
- **WITTWER RD (ON USH 63)**
- **FOREST RD 361 (ON USH 63)**
- **BURGSON RD (ON USH 63)**
- **CTH N (ON USH 63)**
- **FOREST RD 226 (ON USH 63)**
- **N SWEDEN RD (ON USH 63)**
- **CTH D (ON USH 63)**
- **DYBEDAL RD (ON USH 63)**
- **CTH E (ON USH 63)**
- **CTH E (ON USH 63)**
- **RANCH PARK RD (ON USH 63**
- **STH 118 (ON USH 63)**
- **CTH G (ON USH 51)**
- **CTH J (ON USH 51)**
- **SHADY KNOLL ROAD (ON STH 182)**

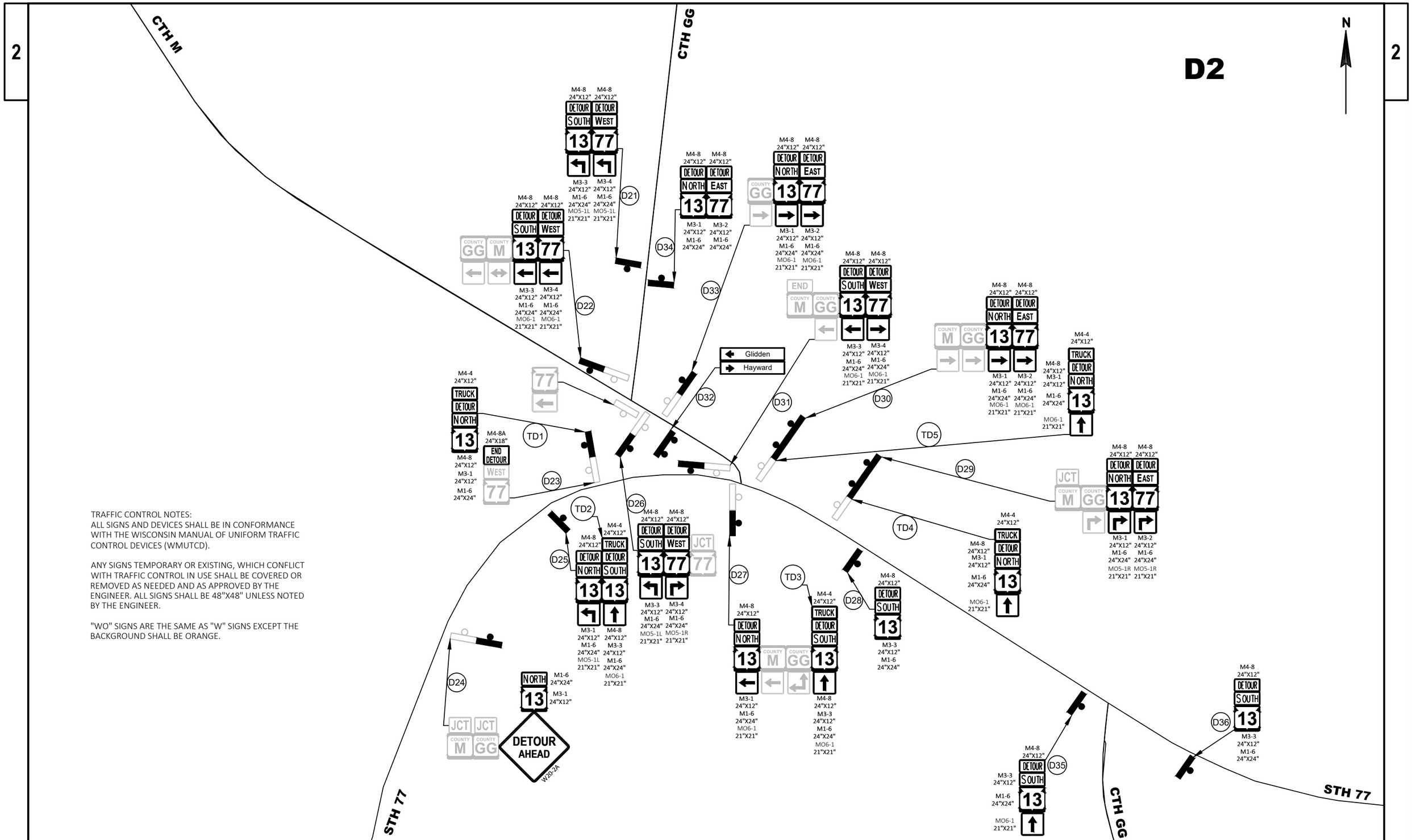


TRAFFIC CONTROL NOTES:
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"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE.


D1
STH 13
N
M3-3 24"X12" SOUTH WEST M3-4 24"X12"
M1-6 24"X24" 13 77 M1-6 24"X24"
DETOUR AHEAD W20-2A
M4-8 24"X12" DETOUR WEST DETOUR SOUTH 77 13
M3-4 24"X12" M1-6 24"X24" MO5-1R 21"X21"
M3-3 24"X12" M1-6 24"X24" MO5-1R 21"X21"
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
M4-8A 24"X18" END DETOUR NORTH 13
M3-1 24"X12" M1-6 24"X24"
COUNTY GG
M4-8 24"X12" DETOUR SOUTH WEST 13 77
M3-3 24"X12" M3-4 24"X12" M1-6 24"X24" M06-1 21"X21"
M4-8 24"X12" DETOUR WEST SOUTH 77 13
M3-4 24"X12" M3-3 24"X12" M1-6 24"X24" M06-1 21"X21"
M4-8 24"X12" DETOUR EAST NORTH 13 77
M3-2 24"X12" M3-1 24"X12" M1-6 24"X24" M06-1 21"X21"
M4-8 24"X12" DETOUR NORTH EAST 13 77
M3-1 24"X12" M3-2 24"X12" M1-6 24"X24" M06-1 21"X21"
M4-8 24"X12" DETOUR SOUTH WEST 13 77
M3-3 24"X12" M3-4 24"X12" M1-6 24"X24" MO5-1L 21"X21"
M4-8 24"X12" DETOUR SOUTH WEST 13 77
M3-3 24"X12" M3-4 24"X12" M1-6 24"X24" MO5-1R 21"X21"
M4-8 24"X12" DETOUR SOUTH WEST NORTH 13 77 13
M4-8 24"X12" DETOUR EAST NORTH 13 77
M4-8 24"X12" DETOUR WEST SOUTH 77 13
M4-8 24"X12" DETOUR EAST NORTH 77 13
M4-8 24"X12" DETOUR NORTH EAST 13 77
M4-8 24"X12" DETOUR SOUTH WEST 13 77
M4-8 24"X12" DETOUR SOUTH WEST 13 77
M4-8 24"X12" DETOUR SOUTH WE



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL D2	SHEET 58	E

TRAFFIC CONTROL NOTES:
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D3

N

STH 13

STH 77

STH 13

D37
D38
D49
D48
TD8
D47
D46
TD7
D45
D44
TD6
D39
D41
D42
D43
D40

M4-8 24"X12" DETOUR NORTH 13 / DETOUR EAST 77
M3-1 24"X12"
M3-2 24"X12"
M1-6 24"X24" MO5-2R 21"X21"
M1-6 24"X24" MO5-2R 21"X21"

M4-9L 30"X24" DETOUR
TYPE III BARRICADE
R11-4 60"X 30" ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

M4-4 24"X12" TRUCK DETOUR NORTH 13
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"
MO6-1 21"X21"

M4-8 24"X12" DETOUR DETOUR
WEST 77 / NORTH 13 / EAST 77
M06-1 21"X21"
M06-1 21"X21"

Cover Arrow A4-12 10"x15"
Mellen
Clam Lake
Hayward

M4-4 24"X12" TRUCK DETOUR NORTH 13
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24" MO5-1L 21"X21"

M4-8 24"X12" DETOUR DETOUR
M3-4 24"X12" WEST 77 / NORTH 13 / EAST 77
M1-6 24"X24" MO5-1L 21"X21"
M3-1 24"X12"
M1-6 24"X24" MO5-1L 21"X21"
M3-2 24"X12"
M1-6 24"X24" MO5-1L 21"X21"

M4-8 24"X12" DETOUR NORTH 13 / DETOUR EAST 77
M3-1 24"X12"
M3-2 24"X12"
M1-6 24"X24"
M1-6 24"X24"

M4-4 24"X12" TRUCK DETOUR NORTH 13
M4-8 24"X12"
M3-1 24"X12"
M1-6 24"X24"

M4-8 24"X12" DETOUR NORTH 13 / DETOUR EAST 77
M3-1 24"X12"
M3-2 24"X12"
M1-6 24"X24" MO6-2 21"X21"
M1-6 24"X24" MO6-2 21"X21"

Mellen
Ashland
Glidden
Cover Signs

M4-8 24"X12" DETOUR SOUTH 13
M3-3 24"X12"
M1-6 24"X24"
MO5-1R 21"X21"

M4-8 24"X12" DETOUR
NORTH EAST 13 77 SOUTH 13
Cover Signs

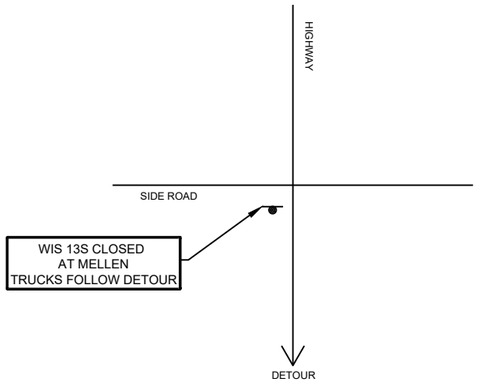
END DETOUR SOUTH 13
M4-8A 24"X18"
M3-3 24"X12"
M1-6 24"X24"

JCT 77
DETOUR AHEAD W20-2A

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL D3	SHEET 59	E

TRUCK DETOUR NOTICES TO BE PLACED AT THE FOLLOWING LOCATIONS:

- **26TH AVE E (ON USH 2 WB IN ASHLAND)**
- **CTH G (ON USH 2 EB IN INO)**
- **COLBY RD (ON USH 2 EB, W OF USH 63)**
- **CHERRYVILLE RD (ON STH 13 SB, N OF ROUNDABOUT)**
- **PRENTICE AVE (ON STH 13 WB)**

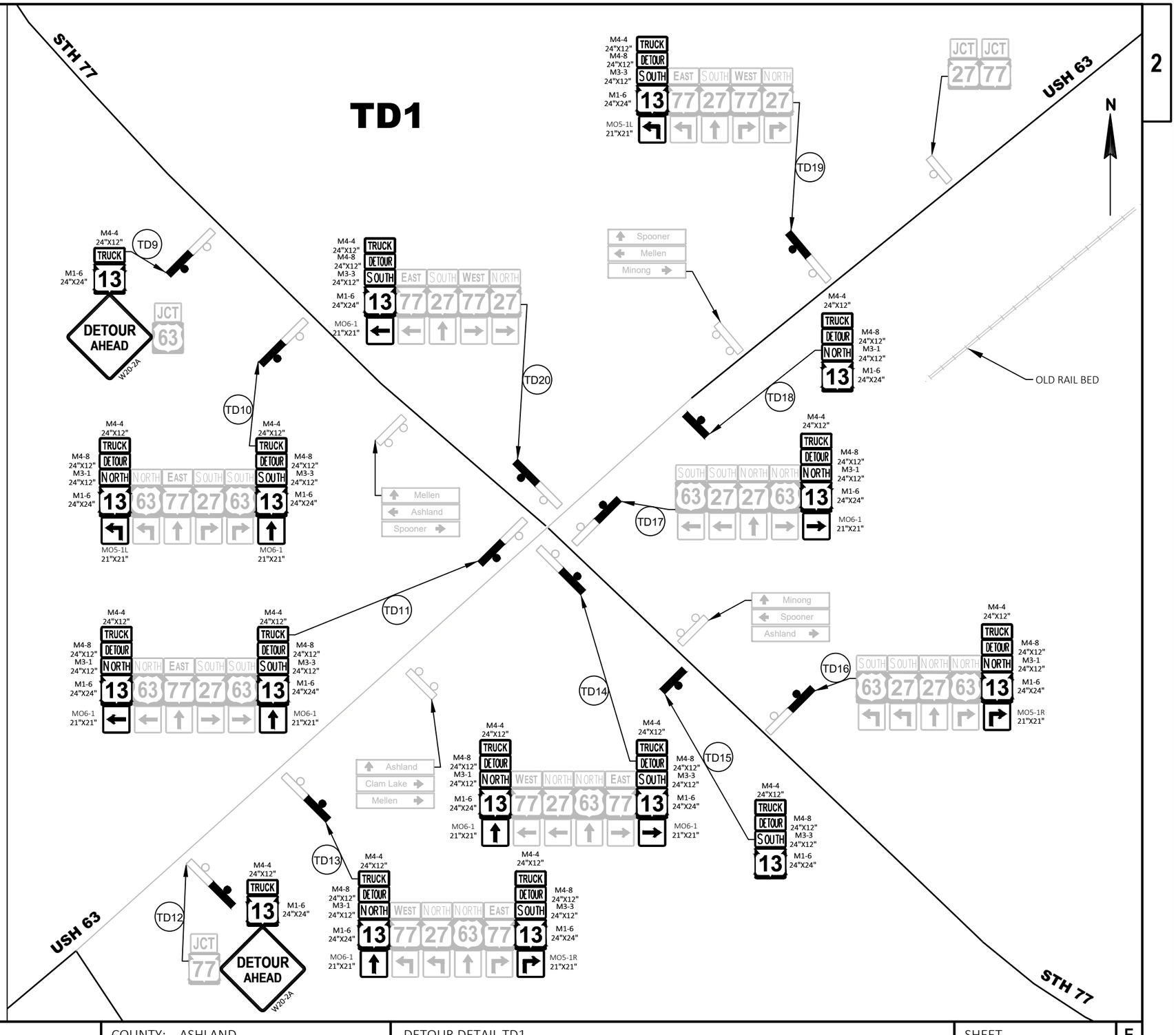


TRAFFIC CONTROL NOTES:
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"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE.

TD1

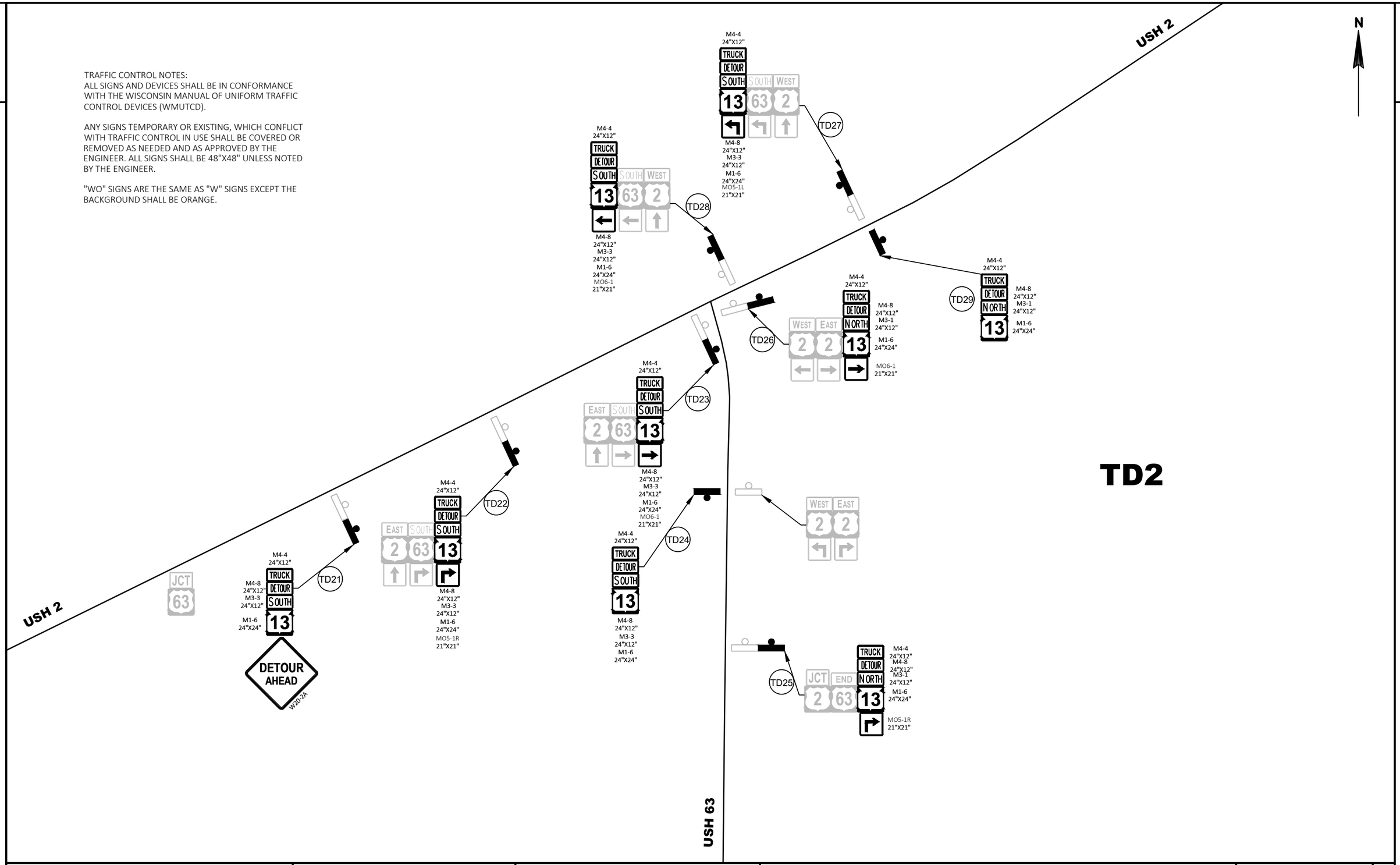


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD1	SHEET 60	E

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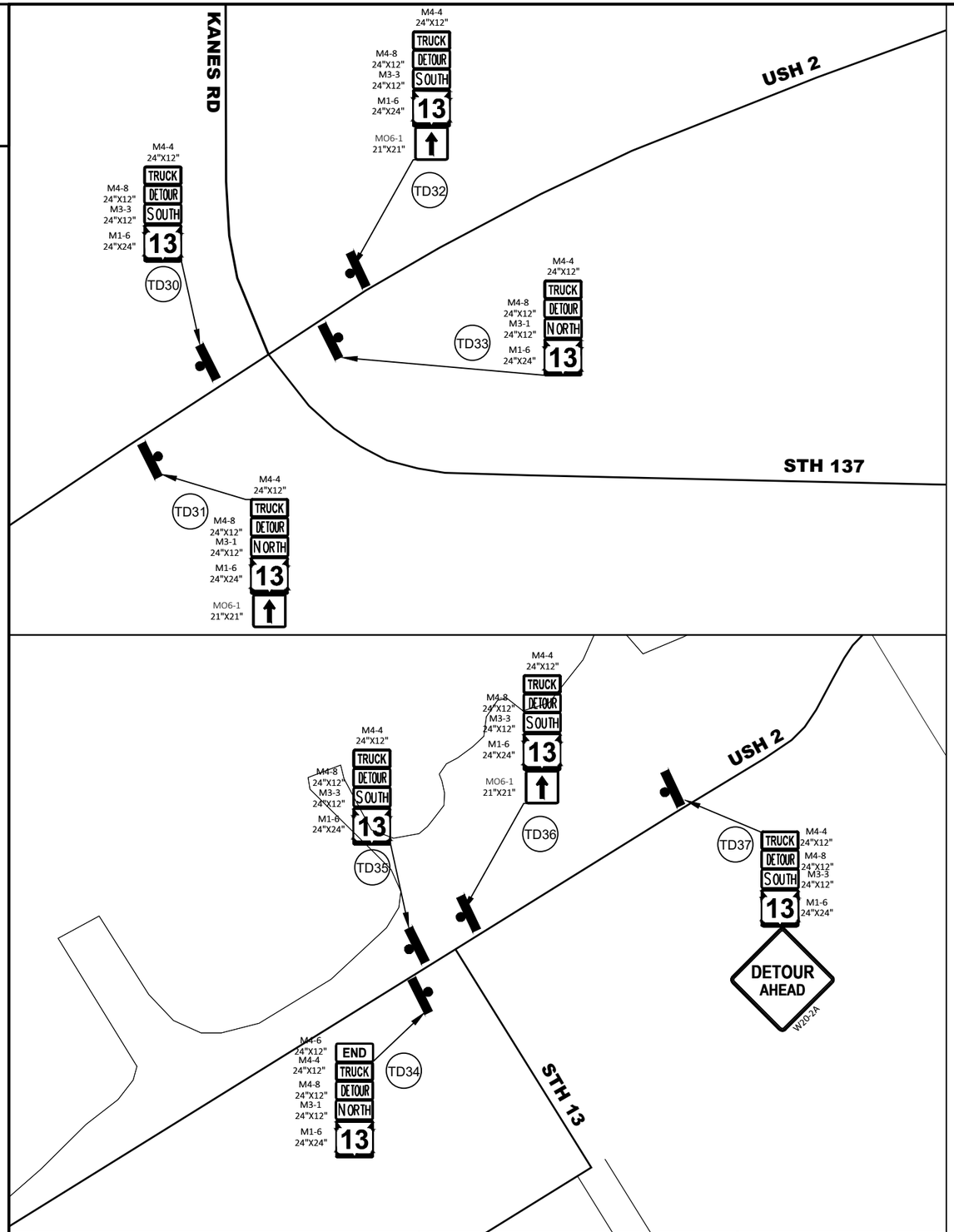
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE.

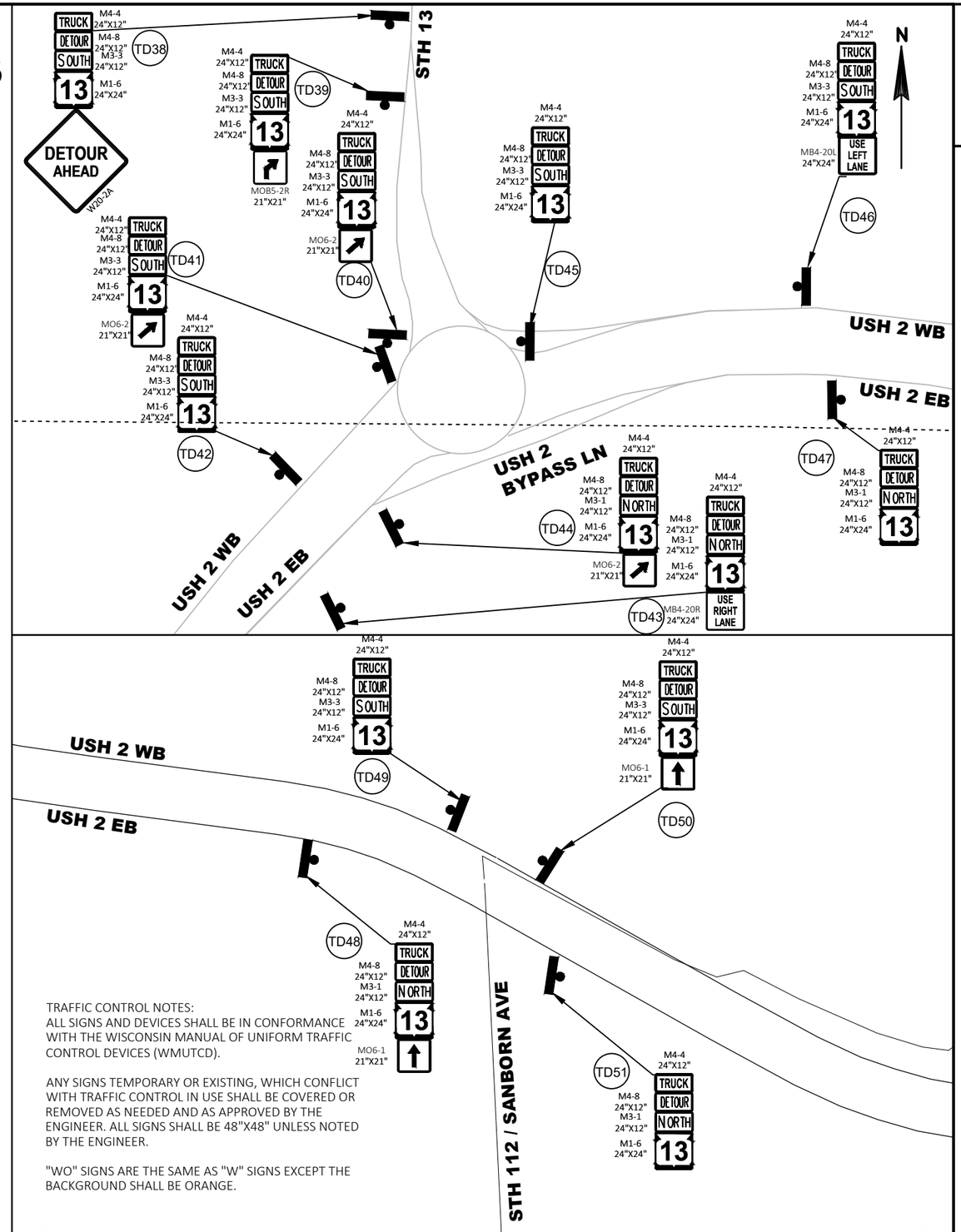


TD2

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD2	SHEET 61	E

TD3





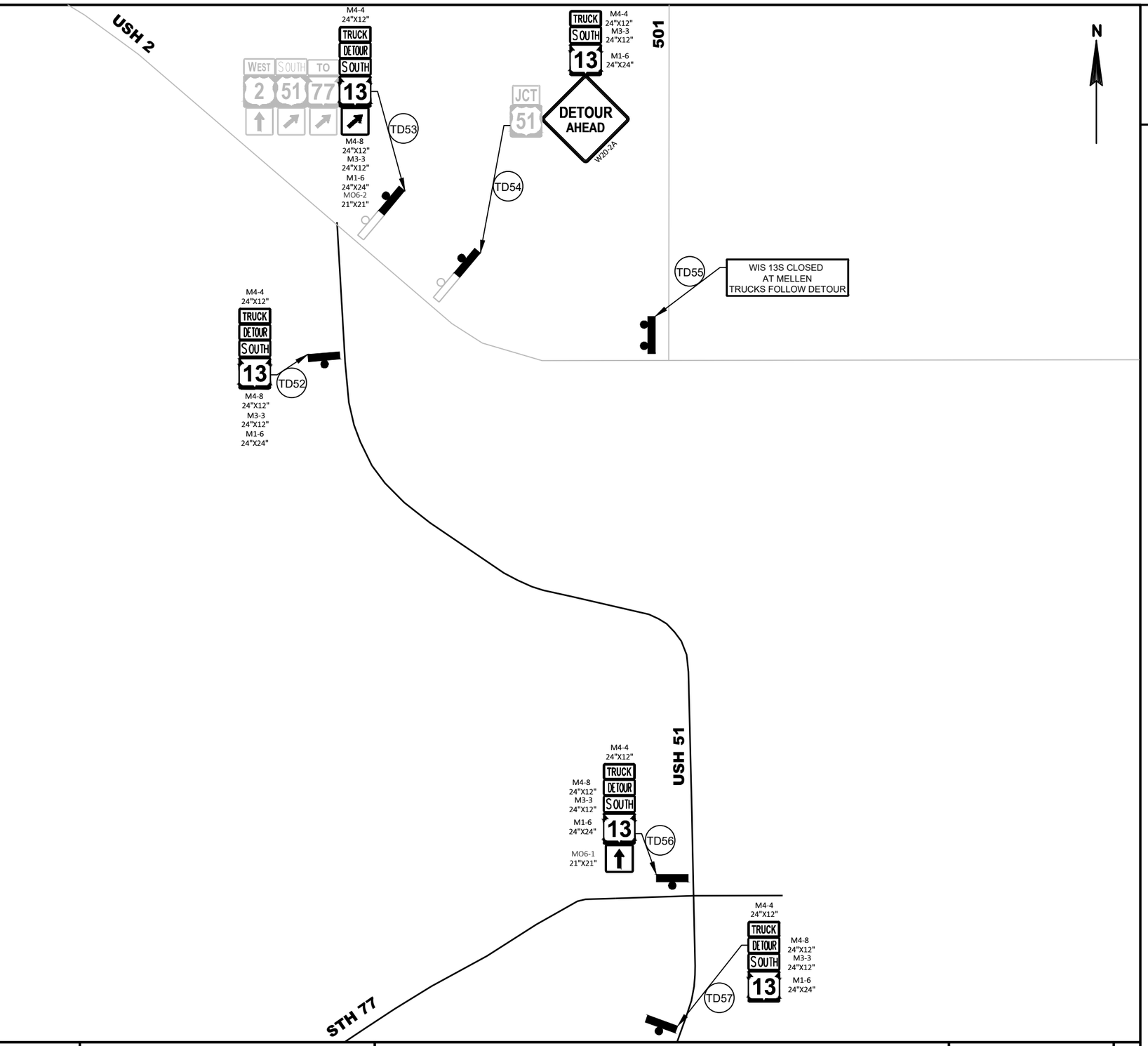
TRAFFIC CONTROL NOTES:
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL IN USE SHALL BE COVERED OR REMOVED AS NEEDED AND AS APPROVED BY THE ENGINEER. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED BY THE ENGINEER.

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

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD3	SHEET 62	E

TD4



TRAFFIC CONTROL NOTES:
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL IN USE SHALL BE COVERED OR REMOVED AS NEEDED AND AS APPROVED BY THE ENGINEER. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED BY THE ENGINEER.

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

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD4	SHEET 63	E

2

2

TD5

TRAFFIC CONTROL NOTES:
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL IN USE SHALL BE COVERED OR REMOVED AS NEEDED AND AS APPROVED BY THE ENGINEER. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED BY THE ENGINEER.

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

N

USH 51

JCT JCT
47 182

NORTH SOUTH
51 51

SOUTH WEST NORTH
47 182 51

SOUTH WEST NORTH
47 182 51

JCT JCT
47 182

M4-4
24"X12"
TRUCK
DETOUR
SOUTH
TD58

SOUTH SOUTH WEST
51 47 182
13

M4-8
24"X12"
M3-3
24"X12"
M1-6
24"X24"
MO5-1R
21"X21"

M4-4
24"X12"
TRUCK
DETOUR
SOUTH
TD59

SOUTH SOUTH WEST
51 47 182
13

M4-8
24"X12"
M3-3
24"X12"
M1-6
24"X24"
MO6-1
21"X21"

M4-4
24"X12"
TRUCK
DETOUR
SOUTH
TD60

13

M4-8
24"X12"
M3-3
24"X12"
M1-6
24"X24"

JCT END END
51 47 182

STH 47

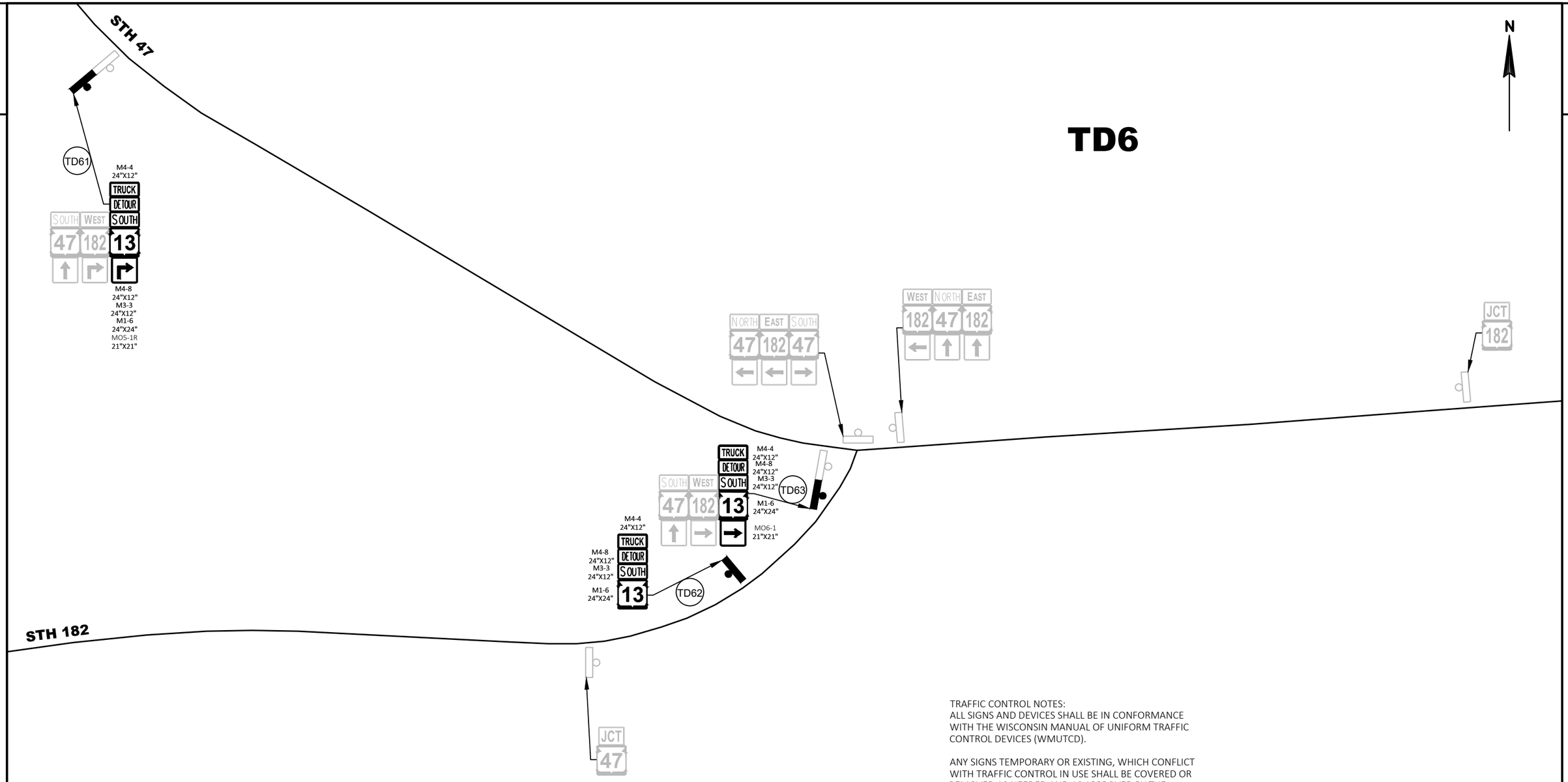
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD5	SHEET 64	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_DETOUR.DWG
LAYOUT NAME - TD-5

PLOT DATE : 6/17/2019 2:55 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

TD6



TRAFFIC CONTROL NOTES:
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL IN USE SHALL BE COVERED OR REMOVED AS NEEDED AND AS APPROVED BY THE ENGINEER. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED BY THE ENGINEER.

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

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD6	SHEET 65	E

2

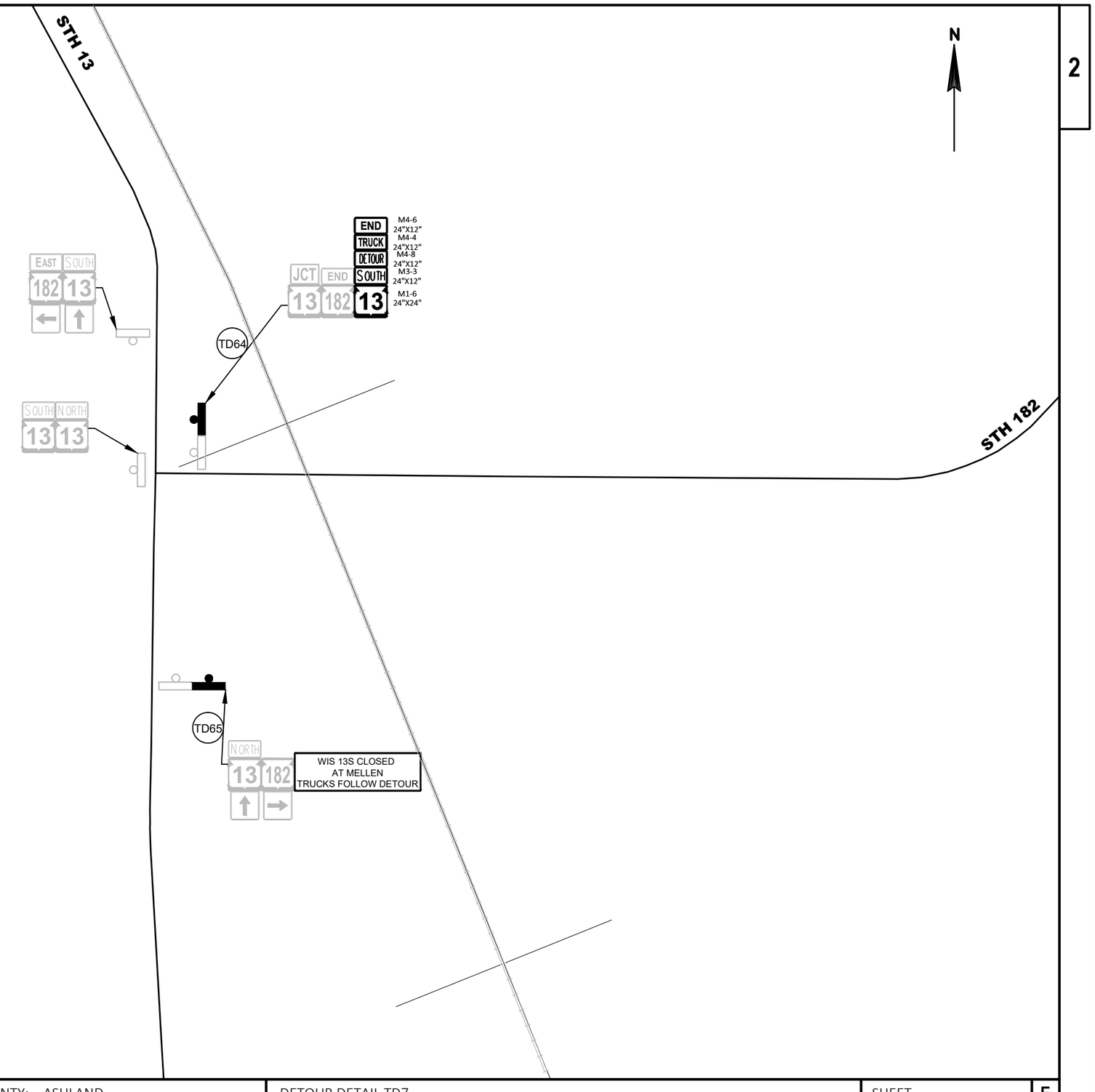
2

TD7

TRAFFIC CONTROL NOTES:
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL IN USE SHALL BE COVERED OR REMOVED AS NEEDED AND AS APPROVED BY THE ENGINEER. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED BY THE ENGINEER.

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



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	DETOUR DETAIL TD7	SHEET 66	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_DETOUR.DWG
LAYOUT NAME - TD-7

PLOT DATE : 6/17/2019 2:56 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

Estimate Of Quantities

					1610-08-74	1610-08-76	1610-11-73
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0002	201.0105	Clearing	STA	58.000	17.000	41.000	
0004	201.0205	Grubbing	STA	58.000	17.000	41.000	
0006	203.0100	Removing Small Pipe Culverts	EACH	49.000	22.000	27.000	
0008	203.0200	Removing Old Structure (station) 01. 776+00	LS	1.000		1.000	
0010	203.0200	Removing Old Structure (station) 02. 870+20	LS	1.000		1.000	
0012	203.0210.S	Abatement of Asbestos Containing Material (structure) 01. B-02-0025	LS	1.000			1.000
0014	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 581+61.30	LS	1.000			1.000
0016	204.0100	Removing Pavement	SY	5,142.000	2,502.000	2,640.000	
0018	204.0120	Removing Asphaltic Surface Milling	SY	334.000			334.000
0020	204.0130	Removing Curb	LF	20.000			20.000
0022	204.0150	Removing Curb & Gutter	LF	323.000	248.000	75.000	
0024	204.0220	Removing Inlets	EACH	2.000			2.000
0026	204.0245	Removing Storm Sewer (size) 01. 18 Inch	LF	34.000			34.000
0028	204.0270	Abandoning Culvert Pipes	EACH	1.000		1.000	
0030	205.0100	Excavation Common	CY	3,253.000	1,430.000	1,743.000	80.000
0032	205.0400	Excavation Marsh	CY	3,714.000	2,997.000	717.000	
0034	206.1000	Excavation for Structures Bridges (structure) 01. B-02-0025	LS	1.000			1.000
0036	208.1100	Select Borrow	CY	60,185.000	28,760.000	31,425.000	
0038	209.0200.S	Backfill Controlled Low Strength	CY	25.000		25.000	
0040	209.2100	Backfill Granular Grade 2	CY	5,570.000	4,495.000	1,075.000	
0042	210.1500	Backfill Structure Type A	TON	210.000			210.000
0044	213.0100	Finishing Roadway (project) 01. 1610-08-74	EACH	1.000	1.000		
0046	213.0100	Finishing Roadway (project) 02. 1610-08-76	EACH	1.000		1.000	
0048	213.0100	Finishing Roadway (project) 03. 1610-11-73	EACH	1.000			1.000
0050	305.0110	Base Aggregate Dense 3/4-Inch	TON	200.000	100.000	100.000	
0052	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	12,455.000	5,993.000	6,397.000	65.000
0054	415.0120	Concrete Pavement 12-Inch	SY	22.000			22.000
0056	415.0410	Concrete Pavement Approach Slab	SY	84.000			84.000
0058	416.0610	Drilled Tie Bars	EACH	20.000			20.000
0060	416.1010	Concrete Surface Drains	CY	8.000			8.000
0062	455.0605	Tack Coat	GAL	1,532.000	704.000	814.000	14.000
0064	465.0105	Asphaltic Surface	TON	3,432.000	1,502.000	1,900.000	30.000
0066	502.0100	Concrete Masonry Bridges	CY	29.000			29.000
0068	502.3200	Protective Surface Treatment	SY	845.000			845.000
0070	502.3210	Pigmented Surface Sealer	SY	190.000			190.000
0072	502.4206	Adhesive Anchors No. 6 Bar	EACH	28.000			28.000
0074	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	2,850.000			2,850.000

					1610-08-74	1610-08-76	1610-11-73
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0076	509.0301	Preparation Decks Type 1	SY	340.000			340.000
0078	509.0302	Preparation Decks Type 2	SY	135.000			135.000
0080	509.0500	Cleaning Decks	SY	845.000			845.000
0082	509.1500	Concrete Surface Repair	SF	100.000			100.000
0084	509.2000	Full-Depth Deck Repair	SY	5.000			5.000
0086	509.2500	Concrete Masonry Overlay Decks	CY	45.000			45.000
0088	509.9050.S	Cleaning Parapets	LF	170.000			170.000
0090	511.1200	Temporary Shoring (structure) 01. B-02-0025	SF	400.000			400.000
0092	516.0500	Rubberized Membrane Waterproofing	SY	8.000			8.000
0094	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	4.000	2.000	2.000	
0096	520.3424	Culvert Pipe Class III-A Non-metal 24-Inch	LF	112.000	65.000	47.000	
0098	520.8000	Concrete Collars for Pipe	EACH	1.000			1.000
0100	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	1,383.000	500.000	883.000	
0102	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	1,316.000	754.000	562.000	
0104	522.0436	Culvert Pipe Reinforced Concrete Class IV 36-Inch	LF	752.000		752.000	
0106	522.0442	Culvert Pipe Reinforced Concrete Class IV 42-Inch	LF	136.000	136.000		
0108	522.0448	Culvert Pipe Reinforced Concrete Class IV 48-Inch	LF	309.000	139.000	170.000	
0110	522.0460	Culvert Pipe Reinforced Concrete Class IV 60-Inch	LF	769.000	422.000	347.000	
0112	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	32.000	12.000	20.000	
0114	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	24.000	16.000	8.000	
0116	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	14.000		14.000	
0118	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	4.000	4.000		
0120	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	8.000	4.000	4.000	
0122	522.1060	Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	EACH	16.000	8.000	8.000	
0124	603.8000	Concrete Barrier Temporary Precast Delivered	LF	610.000			610.000
0126	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,220.000			1,220.000
0128	604.9010.S	Slope Paving Repair Crushed Aggregate	CY	45.000			45.000
0130	604.9015.S	Reseal Crushed Aggregate Slope Paving	SY	435.000			435.000
0132	606.0300	Riprap Heavy	CY	180.000	70.000	110.000	
0134	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	34.000			34.000
0136	611.3220	Inlets 2x2-FT	EACH	2.000			2.000
0138	611.9710	Salvaged Inlet Covers	EACH	2.000			2.000
0140	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000			4.000
0142	614.2300	MGS Guardrail 3	LF	1,500.000	1,500.000		

					1610-08-74	1610-08-76	1610-11-73
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0144	614.2310	MGS Guardrail 3 HS	LF	1,800.000		1,800.000	
0146	614.2610	MGS Guardrail Terminal EAT	EACH	10.000	4.000	6.000	
0148	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1610-08-74	EACH	1.000	1.000		
0150	618.0100	Maintenance And Repair of Haul Roads (project) 02. 1610-08-76	EACH	1.000		1.000	
0152	619.1000	Mobilization	EACH	1.000	0.450	0.450	0.100
0154	624.0100	Water	MGAL	201.000	100.000	100.000	1.000
0156	625.0500	Salvaged Topsoil	SY	123,806.000	61,056.000	62,750.000	
0158	627.0200	Mulching	SY	50,914.000	24,276.000	26,638.000	
0160	628.1104	Erosion Bales	EACH	100.000	50.000	50.000	
0162	628.1504	Silt Fence	LF	21,721.000	12,260.000	9,186.000	275.000
0164	628.1520	Silt Fence Maintenance	LF	21,996.000	12,260.000	9,186.000	550.000
0166	628.1905	Mobilizations Erosion Control	EACH	23.000	10.000	11.000	2.000
0168	628.1910	Mobilizations Emergency Erosion Control	EACH	12.000	5.000	5.000	2.000
0170	628.2002	Erosion Mat Class I Type A	SY	72,782.000	36,670.000	36,112.000	
0172	628.7010	Inlet Protection Type B	EACH	2.000			2.000
0174	628.7570	Rock Bags	EACH	50.000	25.000	25.000	
0176	629.0210	Fertilizer Type B	CWT	78.000	38.000	40.000	
0178	630.0120	Seeding Mixture No. 20	LB	3,340.000	1,646.000	1,694.000	
0180	630.0200	Seeding Temporary	LB	200.000	100.000	100.000	
0182	633.5200	Markers Culvert End	EACH	100.000	44.000	56.000	
0184	634.0416	Posts Wood 4x4-Inch X 16-FT	EACH	79.000		79.000	
0186	637.2210	Signs Type II Reflective H	SF	569.000		569.000	
0188	638.2102	Moving Signs Type II	EACH	35.000	18.000	17.000	
0190	638.2602	Removing Signs Type II	EACH	59.000	5.000	54.000	
0192	638.3000	Removing Small Sign Supports	EACH	57.000	3.000	54.000	
0194	638.4000	Moving Small Sign Supports	EACH	41.000	23.000	18.000	
0196	642.5201	Field Office Type C	EACH	1.000	0.450	0.450	0.100
0198	643.0300	Traffic Control Drums	DAY	1,520.000	800.000		720.000
0200	643.0420	Traffic Control Barricades Type III	DAY	456.000	420.000		36.000
0202	643.0705	Traffic Control Warning Lights Type A	DAY	462.000	462.000		
0204	643.0715	Traffic Control Warning Lights Type C	DAY	720.000			720.000
0206	643.0900	Traffic Control Signs	DAY	21,199.000	20,335.000		864.000
0208	643.0910	Traffic Control Covering Signs Type I	EACH	8.000			8.000
0210	643.0920	Traffic Control Covering Signs Type II	EACH	11.000	11.000		
0212	643.1050	Traffic Control Signs PCMS	DAY	36.000			36.000
0214	643.1051	Traffic Control Signs PCMS with Cellular Communications	DAY	36.000			36.000
0216	643.5000	Traffic Control	EACH	1.000	0.450	0.450	0.100

					1610-08-74	1610-08-76	1610-11-73
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0218	645.0120	Geotextile Type HR	SY	240.000	80.000	160.000	
0220	646.1005	Marking Line Paint 4-Inch	LF	349,874.000	3,378.000	346,496.000	
0222	646.1020	Marking Line Epoxy 4-Inch	LF	1,300.000			1,300.000
0224	646.9000	Marking Removal Line 4-Inch	LF	335.000			335.000
0226	648.0100	Locating No-Passing Zones	MI	19.500		19.500	
0228	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	4,250.000			4,250.000
0230	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	24.000			24.000
0232	650.6000	Construction Staking Pipe Culverts	EACH	50.000	23.000	27.000	
0234	650.6500	Construction Staking Structure Layout (structure) 01. B-02-0025	LS	1.000			1.000
0236	650.8000	Construction Staking Resurfacing Reference	LF	80.000			80.000
0238	650.9910	Construction Staking Supplemental Control (project) 01. 1610-08-74	LS	1.000	1.000		
0240	650.9910	Construction Staking Supplemental Control (project) 02. 1610-08-76	LS	1.000		1.000	
0242	650.9910	Construction Staking Supplemental Control (project) 03. 1610-11-73	LS	1.000			1.000
0244	650.9920	Construction Staking Slope Stakes	LF	21,672.000	10,328.000	11,344.000	
0246	661.0100	Temporary Traffic Signals for Bridges (structure) 01. B-02-0025	LS	1.000			1.000
0248	690.0150	Sawing Asphalt	LF	75.000			75.000
0250	715.0415	Incentive Strength Concrete Pavement	DOL	500.000			500.000
0252	715.0502	Incentive Strength Concrete Structures	DOL	174.000			174.000
0254	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,000.000	500.000	500.000	
0256	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	630.000	315.000	315.000	

3

CLEARING & GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	CLEARING 201.0105 STA	GRUBBING 201.0205 STA	REMARKS
PROJECT 1610-08-74							
0010	409+00	-	414+00	L & R	5	5	GRADING
0010	420+00	-	423+00	L	3	3	INTERSECTION SIGHT DISTANCE
0010	432+00	-	433+00	L & R	1	1	GRADING
0010	437+50	-	443+00	L & R	6	6	GRADING
0010	477+50	-	478+50	R	1	1	GRADING
0010	630+00	-	631+50	R	2	2	INTERSECTION SIGHT DISTANCE
				TOTAL 0010	17 *	17 *	1610-08-74
PROJECT 1610-08-76							
0010	806+00	-	807+00	L & R	1	1	GRADING
0010	814+00	-	825+00	L	11	11	GRADING
0010	859+50	-	872+00	L & R	13	13	GRADING
0010	884+50	-	888+00	L & R	4	4	GRADING
0010	895+50	-	901+00	L & R	6	6	GRADING
0010	917+50	-	924+50	L & R	7	7	GRADING
				TOTAL 0010	41 *	41 *	1610-08-76

* FULL EXTENTS OF CLEARING AND GRUBBING TO BE DETERMINED BY ENGINEER IN THE FIELD

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	LOCATION	203.0100 EACH	EXISTING CULVERT INFO
PROJECT 1610-08-74				
0010	392+27	STH 13 - SPILLERBERG CREEK	1	60"X108' RCCP
0010	411+53	STH 13	1	24"X88' RCCP
0010	420+11	STH 13	1	24"X68' RCCP
0010	439+75	STH 13	1	30"X112' RCCP
0010	456+25	STH 13	1	30"X96' RCCP
0010	460+10	STH 13	1	30"X100' RCCP
0010	472+36	STH 13	1	30"X108' RCCP
0010	478+32	STH 13	1	30"X100' RCCP
0010	499+65	STH 13	1	24"X76' RCCP
0010	507+63	STH 13	1	24"X64' RCCP
0010	519+15	MORSE RD - RT	1	65'; UNKNOWN
0010	528+05	STH 13	2	2-60"X93' RCCP
0010	556+96	STH 13	1	24"X80' RCCP
0010	564+58	STH 13	1	24"X72' RCCP
0010	589+02	STH 13	1	36"X112' CMP
0010	596+48	STH 13	1	24"X60' CMP
0010	606+60	STH 13	1	24"X70' RCCP
0010	615+48	STH 13	1	30"X68' RCCP
0010	621+72	STH 13	1	24"X72' RCCP
0010	636+20	STH 13	2	24"X80' RCCP, 30"X100' RCCP
		TOTAL 0010	22	1610-08-74

REMOVING SMALL PIPE CULVERTS - CONTINUED

CATEGORY	STATION	LOCATION	203.0100 EACH	EXISTING CULVERT INFO
PROJECT 1610-08-76				
0010	670+74	STH 13	1	24"X68' RCCP
0010	676+30	STH 13	1	24"X82' RCCP
0010	681+32	STH 13	1	24"X70' RCCP
0010	694+73	STH 13	1	24"X94' RCCP
0010	711+64	STH 13	1	36"X80' RCCP
0010	718+30	STH 13	2	48"X85' RCCP, 57"X85' CMCP
0010	732+70	STH 13	1	24"X71' RCCP
0010	756+10	STH 13	1	24" RCCP
0010	765+94	STH 13	2	48"X75' RCCP, 48"X75' CMCP
0010	770+78	STH 13	1	36"X76' RCCP
0010	774+25	LAKE DRIVE	1	46'; UNKNOWN
0010	785+91	STH 13	1	24"X85' RCCP
0010	794+10	STH 13	1	24" RCCP
0010	798+90	STH 13	1	24"X75' RCCP
0010	806+25	STH 13	1	36"X127' RCCP
0010	823+68	STH 13	1	30"X176' RCCP
0010	831+87	STH 13	1	24"X78' RCCP
0010	835+45	STH 13	1	30"X71' RCCP
0010	845+90	STH 13	1	30"X71' RCCP
0010	858+41	STH 13	1	30" RCCP
0010	861+16	STH 13	1	36"X125' RCCP
0010	866+00	STH 13	1	24"X75' RCCP
0010	885+78	STH 13	1	36"X122' RCCP
0010	899+81	STH 13	1	30"X159' RCCP
0010	921+37	STH 13	1	36"X83' RCCP
		TOTAL 0010	27	1610-08-76

REMOVING OLD STRUCTURE (STA 776+00)

CATEGORY	LOCATION	203.0200.01 LS
PROJECT 1610-08-76		
0010	776+00	1
	TOTAL 0010	1

REMOVING OLD STRUCTURE (STA 870+20)

CATEGORY	LOCATION	203.0200.02 LS
PROJECT 1610-08-76		
0010	870+20	1
	TOTAL 0010	1

REMOVING CURB & GUTTER

CATEGORY	STATION	LOCATION	204.0150 LF
PROJECT 1610-08-74			
0010	426+34	MORSE RD INTERSECTION	138
0010	519+15	MORSE RD INTERSECTION	110
		TOTAL 0010	248
PROJECT 1610-08-76			
0010	774+25	LAKE DR INTERSECTION	75
		TOTAL 0010	75

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

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REMOVING PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 SY
PROJECT 1610-08-74					
0010	391+82	-	392+72	CULVERT REPLACEMENT	200
0010	411+68	-	412+12	CULVERT REPLACEMENT	98
0010	419+98	-	420+32	CULVERT REPLACEMENT	76
0010	439+27	-	440+21	CULVERT REPLACEMENT	209
0010	455+83	-	456+37	CULVERT REPLACEMENT	120
0010	459+71	-	460+49	CULVERT REPLACEMENT	173
0010	471+87	-	472+81	CULVERT REPLACEMENT	209
0010	477+86	-	478+70	CULVERT REPLACEMENT	187
0010	499+43	-	499+87	CULVERT REPLACEMENT	98
0010	507+39	-	507+85	CULVERT REPLACEMENT	102
0010	527+53	-	528+57	CULVERT REPLACEMENT	231
0010	556+62	-	557+30	CULVERT REPLACEMENT	151
0010	564+43	-	564+73	CULVERT REPLACEMENT	67
0010	588+68	-	589+32	CULVERT REPLACEMENT	142
0010	596+33	-	596+67	CULVERT REPLACEMENT	76
0010	606+45	-	606+75	CULVERT REPLACEMENT	67
0010	615+25	-	615+71	CULVERT REPLACEMENT	102
0010	621+58	-	621+88	CULVERT REPLACEMENT	67
0010	635+91	-	636+49	CULVERT REPLACEMENT	129
				TOTAL 0010	2502
PROJECT 1610-08-76					
0010	670+57	-	670+91	CULVERT REPLACEMENT	76
0010	676+03	-	676+57	CULVERT REPLACEMENT	120
0010	681+20	-	681+44	CULVERT REPLACEMENT	53
0010	694+46	-	695+00	CULVERT REPLACEMENT	120
0010	711+47	-	711+81	CULVERT REPLACEMENT	76
0010	717+98	-	718+62	CULVERT REPLACEMENT	142
0010	732+48	-	732+92	CULVERT REPLACEMENT	98
0010	765+49	-	766+03	CULVERT REPLACEMENT	120
0010	770+64	-	770+92	CULVERT REPLACEMENT	62
0010	785+65	-	786+17	CULVERT REPLACEMENT	116
0010	798+78	-	799+02	CULVERT REPLACEMENT	53
0010	805+82	-	806+68	CULVERT REPLACEMENT	191
0010	814+56	-	815+32	CULVERT REPLACEMENT	169
0010	823+11	-	824+25	CULVERT REPLACEMENT	253
0010	831+69	-	832+05	CULVERT REPLACEMENT	80
0010	835+27	-	835+63	CULVERT REPLACEMENT	80
0010	845+66	-	846+14	CULVERT REPLACEMENT	107
0010	860+76	-	861+56	CULVERT REPLACEMENT	178
0010	865+76	-	866+24	CULVERT REPLACEMENT	107
0010	885+46	-	886+10	CULVERT REPLACEMENT	142
0010	899+31	-	900+31	CULVERT REPLACEMENT	222
0010	921+20	-	921+54	CULVERT REPLACEMENT	76
				TOTAL 0010	2640

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

ABANDONING CULVERT PIPES

CATEGORY	STATION	LOCATION	204.0270 EACH	REMARKS
PROJECT 1610-08-76				
0010	814+94	STH 13	1	30" RCCP
		TOTAL 0010	1	

EARTHWORK SUMMARY TABLE

LOCATION	(1) 205.0100 EXCAVATION COMMON (CUT) CY	(2) 205.0100 EXCAVATION COMMON (EBS) CY	(3) REUSEABLE MATERIAL CY	(4) EXPANDED FILL CY	MARSH EXCAVATION CY	(5) 208.1100 SELECT BORROW [FILL] CY	(6) 209.2100 BACKFILL GRANULAR, GRADE 2 [MARSH FILL] CY
PROJECT 1610-08-74							
409+00 - 414+00	47	0	47	509	0	462	0
417+00 - 422+00	22	0	22	227	0	205	0
431+00 - 448+00	192	0	192	8202	0	8009	0
455+23 - 463+00	119	0	119	2896	216	2669	324
468+00 - 483+00	213	0	213	6706	0	6493	0
497+50 - 511+23	179	0	179	2732	0	2553	0
524+00 - 533+28	107	0	107	4183	0	4076	0
550+00 - 565+00	108	0	108	4022	859	3485	1288
611+00 - 617+00	138	0	138	861	0	723	0
632+00 - 641+50	55	0	55	1100	1922	84	2883
UNDISTRIBUTED	---	250	---	---	---	---	---
PROJECT 1610-08-74 TOTALS:	1180	250	1180	31438	2997	28760	4495
PROJECT 1610-08-76							
667+00 - 679+00	187	0	187	2545	0	2358	0
693+30 - 698+00	74	0	74	797	0	723	0
710+60 - 722+00	184	0	184	2680	0	2496	0
731+00 - 738+00	87	0	87	2114	0	2027	0
763+50 - 768+00	84	0	84	534	0	449	0
784+00 - 791+00	120	0	120	2503	717	2025	1075
798+07 - 799+82	36	0	36	189	0	153	0
804+00 - 808+10	29	0	29	3072	0	3043	0
811+83 - 826+30	16	0	16	4711	0	4695	0
830+50 - 837+00	129	0	129	998	0	869	0
845+20 - 853+00	161	0	161	1961	0	1800	0
859+50 - 872+00	104	0	104	4623	0	4520	0
884+00 - 890+00	51	0	51	1352	0	1301	0
895+50 - 902+00	129	0	129	3706	0	3576	0
917+50 - 924+22	101	0	101	1491	0	1390	0
UNDISTRIBUTED	---	250	---	---	---	---	---
PROJECT 1610-08-76 TOTALS:	1493	250	1493	33276	717	31425	1075

(1) EXCAVATION COMMON (CUT) FROM C3D SURFACES (INCLUDES EXISTING PAVEMENT IF WITHIN CUT LIMIT)
(2) EXCAVATION COMMON (EBS) TO BE BACKFILLED WITH BACKFILL GRANULAR, GRADE 2. EBS ASSUME TO BE AT CULVERT REPLACEMENT AREAS.
(3) REUSEABLE MATERIAL = USEABLE EXCAVATION COMMON (CUT) + USEABLE EXCAVATION COMMON (EBS)
(4) EXPANDED FILL = REQUIRED FILL MATERIAL = FILL + EBS FILL (EXPANSION FACTOR = 1.18)
(5) BORROW [FILL] = REQUIRED EMBANKMENT MATERIAL (=EXPANDED FILL - REUSEABLE MATERIAL-(MARSH EX.*0.50)).
(6) BACKFILL GRANULAR, GRADE 2 = MATERIAL REQUIRED TO FILL MARSH EXCAVATION AREAS (EXPANSION FACTOR = 1.50).

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BACKFILL CONTROLLED LOW STRENGTH

CATEGORY	STATION	LOCATION	209.0200.S CY	REMARKS
PROJECT 1610-08-76				
0010	814+94	STH 13	25.00	30"X133' RCCP
		TOTAL 0010	25	

BASE AGGREGATE DENSE 3/4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 TON
PROJECT 1610-08-74					
0010				UNDSITRIBUTED	100
				TOTAL 0010	100
PROJECT 1610-08-76					
0010				UNDISTRIBUTED	100
				TOTAL 0010	100

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

TACK COAT

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 GAL
PROJECT 1610-08-74					
0010	391+82	-	392+72	CULVERT PATCH	41
0010	411+68	-	412+12	CULVERT PATCH	20
0010	419+98	-	420+32	CULVERT PATCH	15
0010	439+27	-	440+21	CULVERT PATCH	43
0010	455+83	-	456+37	CULVERT PATCH	24
0010	459+71	-	460+49	CULVERT PATCH	35
0010	471+87	-	472+81	CULVERT PATCH	43
0010	477+86	-	478+70	CULVERT PATCH	38
0010	499+43	-	499+87	CULVERT PATCH	20
0010	507+39	-	507+85	CULVERT PATCH	21
0010	519+15		MORSE RD	CULVERT PATCH	4
0010	527+53	-	528+57	CULVERT PATCH	47
0010	556+62	-	557+30	CULVERT PATCH	31
0010	564+43	-	564+73	CULVERT PATCH	14
0010	588+68	-	589+32	CULVERT PATCH	29
0010	596+33	-	596+67	CULVERT PATCH	15
0010	606+45	-	606+75	CULVERT PATCH	14
0010	615+25	-	615+71	CULVERT PATCH	21
0010	621+58	-	621+88	CULVERT PATCH	14
0010	635+91	-	636+49	CULVERT PATCH	26
0010				CTH GG MISC PATCH	190
				TOTAL 0010	704
PROJECT 1610-08-76					
0010	670+57	-	670+91	CULVERT PATCH	15
0010	676+03	-	676+57	CULVERT PATCH	25
0010	681+20	-	681+44	CULVERT PATCH	12
0010	694+46	-	695+00	CULVERT PATCH	27
0010	711+47	-	711+81	CULVERT PATCH	17
0010	717+98	-	718+62	CULVERT PATCH	33
0010	732+48	-	732+92	CULVERT PATCH	23
0010	756+02	-	756+18	CULVERT PATCH	9
0010	765+49	-	766+03	CULVERT PATCH	30
0010	770+64	-	770+92	CULVERT PATCH	16
0010	774+25		LAKE DR	CULVERT PATCH	7
0010	785+65	-	786+17	CULVERT PATCH	31
0010	793+98	-	794+22	CULVERT PATCH	14
0010	798+78	-	799+02	CULVERT PATCH	15
0010	805+82	-	806+68	CULVERT PATCH	54
0010	814+56	-	815+32	CULVERT PATCH	49
0010	823+11	-	824+25	CULVERT PATCH	74
0010	831+69	-	832+05	CULVERT PATCH	24
0010	835+27	-	835+63	CULVERT PATCH	24
0010	845+66	-	846+14	CULVERT PATCH	33
0010	858+14	-	858+68	CULVERT PATCH	38
0010	860+76	-	861+56	CULVERT PATCH	58
0010	865+76	-	866+24	CULVERT PATCH	35
0010	885+46	-	886+10	CULVERT PATCH	48
0010	899+31	-	900+31	CULVERT PATCH	76
0010	921+20	-	921+54	CULVERT PATCH	26
				TOTAL 0010	814

ASPHALTIC SURFACE

CATEGORY	STATION	TO	STATION	LOCATION	465.0105 TON
PROJECT 1610-08-74					
0010	391+82	-	392+72	CULVERT PATCH	95
0010	411+68	-	412+12	CULVERT PATCH	47
0010	419+98	-	420+32	CULVERT PATCH	36
0010	439+27	-	440+21	CULVERT PATCH	99
0010	455+83	-	456+37	CULVERT PATCH	57
0010	459+71	-	460+49	CULVERT PATCH	83
0010	471+87	-	472+81	CULVERT PATCH	99
0010	477+86	-	478+70	CULVERT PATCH	89
0010	499+43	-	499+87	CULVERT PATCH	47
0010	507+39	-	507+85	CULVERT PATCH	49
0010	519+15		MORSE RD	CULVERT PATCH	11
0010	527+53	-	528+57	CULVERT PATCH	110
0010	556+62	-	557+30	CULVERT PATCH	72
0010	564+43	-	564+73	CULVERT PATCH	32
0010	588+68	-	589+32	CULVERT PATCH	68
0010	596+33	-	596+67	CULVERT PATCH	36
0010	606+45	-	606+75	CULVERT PATCH	32
0010	615+25	-	615+71	CULVERT PATCH	49
0010	621+58	-	621+88	CULVERT PATCH	32
0010	635+91	-	636+49	CULVERT PATCH	61
0010				CTH GG-MISC.PATCHING	300
				TOTAL 0010	1502
PROJECT 1610-08-76					
0010	670+57	-	670+91	CULVERT PATCH	36
0010	676+03	-	676+57	CULVERT PATCH	59
0010	681+20	-	681+44	CULVERT PATCH	27
0010	694+46	-	695+00	CULVERT PATCH	62
0010	711+47	-	711+81	CULVERT PATCH	40
0010	717+98	-	718+62	CULVERT PATCH	78
0010	732+48	-	732+92	CULVERT PATCH	55
0010	756+02	-	756+18	CULVERT PATCH	20
0010	765+49	-	766+03	CULVERT PATCH	71
0010	770+64	-	770+92	CULVERT PATCH	37
0010	774+25		LAKE DR	CULVERT PATCH	16
0010	785+65	-	786+17	CULVERT PATCH	71
0010	793+98	-	794+22	CULVERT PATCH	34
0010	798+78	-	799+02	CULVERT PATCH	34
0010	805+82	-	806+68	CULVERT PATCH	126
0010	814+56	-	815+32	CULVERT PATCH	113
0010	823+11	-	824+25	CULVERT PATCH	174
0010	831+69	-	832+05	CULVERT PATCH	56
0010	835+27	-	835+63	CULVERT PATCH	57
0010	845+66	-	846+14	CULVERT PATCH	78
0010	858+14	-	858+68	CULVERT PATCH	89
0010	860+76	-	861+56	CULVERT PATCH	134
0010	865+76	-	866+24	CULVERT PATCH	82
0010	885+46	-	886+10	CULVERT PATCH	112
0010	899+31	-	900+31	CULVERT PATCH	177
0010	921+20	-	921+54	CULVERT PATCH	61
				TOTAL 0010	1900

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BASE AGGREGATE DENSE 1 1/4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	305.0120 TON	REMARKS
PROJECT 1610-08-74						
	MAINLINE SHOULDERS					
0010	409+00	-	414+00	STH 13 SHOULDERS	170	
0010	417+00	-	422+00	STH 13 SHOULDERS	85	LT ONLY
0010	431+00	-	438+54	STH 13 SHOULDERS	256	
0010	438+54	-	446+01	STH 13 SHOULDERS	363	BEAM GUARD LT
0010	446+01	-	448+00	STH 13 SHOULDERS	68	
0010	455+23	-	463+00	STH 13 SHOULDERS	264	
0010	468+00	-	470+51	STH 13 SHOULDERS	85	
0010	470+51	-	481+00	STH 13 SHOULDERS	510	BEAM GUARD LT
0010	481+00	-	483+00	STH 13 SHOULDERS	34	LT ONLY
0010	497+50	-	511+23	STH 13 SHOULDERS	466	
0010	524+00	-	533+28	STH 13 SHOULDERS	315	
0010	550+00	-	552+25	STH 13 SHOULDERS	38	RT ONLY
0010	552+25	-	560+00	STH 13 SHOULDERS	263	
0010	560+00	-	565+00	STH 13 SHOULDERS	85	LT ONLY
0010	611+00	-	617+00	STH 13 SHOULDERS	204	
0010	632+00	-	636+00	STH 13 SHOULDERS	68	RT ONLY
0010	636+00	-	638+00	STH 13 SHOULDERS	68	
0010	638+00	-	641+50	STH 13 SHOULDERS	59	LT ONLY
	CULVERT REPLACEMENT LOCATIONS					
0010	391+82	-	392+72	CROSS PIPE	204	
0010	411+68	-	412+12	CROSS PIPE	100	
0010	419+98	-	420+32	CROSS PIPE	77	
0010	439+27	-	440+21	CROSS PIPE	213	
0010	455+83	-	456+37	CROSS PIPE	122	
0010	459+71	-	460+49	CROSS PIPE	177	
0010	471+87	-	472+81	CROSS PIPE	213	
0010	477+86	-	478+70	CROSS PIPE	190	
0010	499+43	-	499+87	CROSS PIPE	100	
0010	507+39	-	507+85	CROSS PIPE	104	
0010			519+15	CROSS PIPE	10	MORSE RD
0010	527+53	-	528+57	CROSS PIPE	235	
0010	556+62	-	557+30	CROSS PIPE	154	
0010	564+43	-	564+73	CROSS PIPE	68	
0010	588+68	-	589+32	CROSS PIPE	145	
0010	596+33	-	596+67	CROSS PIPE	77	
0010	606+45	-	606+75	CROSS PIPE	68	
0010	615+25	-	615+71	CROSS PIPE	104	
0010	621+58	-	621+88	CROSS PIPE	68	
0010	635+91	-	636+49	CROSS PIPE	131	
0010			426+34	MORSE RD	20	C&G REMOVAL
0010			519+15	MORSE RD	16	C&G REMOVAL
				TOTAL 0010	5993	1610-08-74

BASE AGGREGATE DENSE 1 1/4-INCH - CONTINUED

CATEGORY	STATION	TO	STATION	LOCATION	305.0120 TON	REMARKS
PROJECT 1610-08-76						
	MAINLINE SHOULDERS					
0010	667+00	-	679+00	STH 13 SHOULDERS	407	
0010	693+30	-	696+24	STH 13 SHOULDERS	100	
0010	696+24	-	698+00	STH 13 SHOULDERS	30	LT ONLY
0010	710+60	-	720+00	STH 13 SHOULDERS	319	
0010	720+00	-	722+00	STH 13 SHOULDERS	34	RT ONLY
0010	731+00	-	736+00	STH 13 SHOULDERS	170	
0010	736+00	-	738+00	STH 13 SHOULDERS	34	LT ONLY
0010	763+50	-	764+50	STH 13 SHOULDERS	17	LT ONLY
0010	764+50	-	768+00	STH 13 SHOULDERS	119	
0010	784+00	-	791+00	STH 13 SHOULDERS	237	
0010	798+07	-	799+82	STH 13 SHOULDERS	59	
0010	804+00	-	807+00	STH 13 SHOULDERS	146	BEAM GUARD LT
0010	807+00	-	808+10	STH 13 SHOULDERS	35	BEAM GUARD LT
0010	811+83	-	826+30	STH 13 SHOULDERS	458	BEAM GUARD LT
0010	830+50	-	837+00	STH 13 SHOULDERS	221	
0010	845+20	-	853+00	STH 13 SHOULDERS	265	
0010	859+50	-	872+00	STH 13 SHOULDERS	212	
0010	884+00	-	885+80	STH 13 SHOULDERS	31	LT ONLY
0010	885+80	-	888+10	STH 13 SHOULDERS	78	
0010	888+10	-	890+00	STH 13 SHOULDERS	32	LT ONLY
0010	895+50	-	902+00	STH 13 SHOULDERS	221	
0010	917+50	-	924+22	STH 13 SHOULDERS	228	
	CULVERT REPLACEMENT LOCATIONS					
0010	670+57	-	670+91	CROSS PIPE	77	
0010	676+03	-	676+57	CROSS PIPE	122	
0010	681+20	-	681+44	CROSS PIPE	54	
0010	694+46	-	695+00	CROSS PIPE	122	
0010	711+47	-	711+81	CROSS PIPE	77	
0010	717+98	-	718+62	CROSS PIPE	145	
0010	732+48	-	732+92	CROSS PIPE	100	
0010	756+02	-	756+18	CROSS PIPE	36	
0010	765+49	-	766+03	CROSS PIPE	122	
0010	770+64	-	770+92	CROSS PIPE	63	
0010			774+25	CROSS PIPE	25	LAKE DRIVE
0010	785+65	-	786+17	CROSS PIPE	118	
0010	793+98	-	794+22	CROSS PIPE	54	
0010	798+78	-	799+02	CROSS PIPE	54	
0010	805+82	-	806+68	CROSS PIPE	195	
0010	814+56	-	815+32	CROSS PIPE	172	
0010	823+11	-	824+25	CROSS PIPE	258	
0010	831+69	-	832+05	CROSS PIPE	81	
0010	835+27	-	835+63	CROSS PIPE	81	
0010	845+66	-	846+14	CROSS PIPE	109	
0010	858+14	-	858+68	CROSS PIPE	122	
0010	860+76	-	861+56	CROSS PIPE	181	
0010	865+76	-	866+24	CROSS PIPE	109	
0010	885+46	-	886+10	CROSS PIPE	145	
0010	899+31	-	900+31	CROSS PIPE	226	
0010	921+20	-	921+54	CROSS PIPE	77	
0010			774+25	LAKE DRIVE	20	C&G REMOVAL
				TOTAL 0010	6397	1610-08-76

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

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APRON ENDWALLS FOR CULVERT PIPE 24-INCH

CATEGORY	STATION	LOCATION	520.1024 EACH
PROJECT 1610-08-74			
0010	519+15	MORSE RD	2
		TOTAL 0010	2
1610-08-76			
0010	774+25	LAKE DR	2
		TOTAL 0010	2
TOTAL 0010			2

CULVERT PIPE CLASS III-A NON-METAL 24-INCH

CATEGORY	STATION	LOCATION	520.3424 LF
PROJECT 1610-08-74			
0010	519+15	MORSE RD	65
		TOTAL 0010	65
PROJECT 1610-08-76			
0010	774+25	LAKE DR	47
		TOTAL 0010	47
TOTAL 0010			47

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

CULVERT REPLACMENT SUMMARY

CATEGORY	STATION	LOCATION	CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH 522.0424 LF	CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH 522.0430 LF	CULVERT PIPE REINFORCED CONCRETE CLASS IV 36-INCH 522.0436 LF	CULVERT PIPE REINFORCED CONCRETE CLASS IV 42-INCH 522.0442 LF	CULVERT PIPE REINFORCED CONCRETE CLASS IV 48-INCH 522.0448 LF	CULVERT PIPE REINFORCED CONCRETE CLASS IV 60-INCH 522.0460 LF	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH 522.1024 EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH 522.1030 EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH 522.1036 EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH 522.1042 EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH 522.1048 EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH 522.1060 EACH	CONSTRUCTION STAKING PIPE CULVERTS 650.6000 EACH
PROJECT 1610-08-74															
0010	392+24	CROSS PIPE						110						2	1
0010	392+35	CROSS PIPE						109						2	1
0010	411+53	CROSS PIPE		83						2					1
0010	420+11	CROSS PIPE	77						2						1
0010	439+75	CROSS PIPE		121						2					1
0010	456+25	CROSS PIPE		88						2					1
0010	460+10	CROSS PIPE		110						2					1
0010	472+36	CROSS PIPE		113						2					1
0010	478+32	CROSS PIPE		111						2					1
0010	499+65	CROSS PIPE	75						2						1
0010	507+63	CROSS PIPE				68						2			1
0010	519+15	MORSE RD - RT													1
0010	528+03	CROSS PIPE						101						2	1
0010	528+13	CROSS PIPE						102						2	1
0010	556+96	CROSS PIPE	97						2						1
0010	564+58	CROSS PIPE	78						2						1
0010	589+02	CROSS PIPE	114						2						1
0010	596+48	CROSS PIPE		64						2					1
0010	606+60	CROSS PIPE	59						2						1
0010	615+48	CROSS PIPE				68						2			1
0010	621+72	CROSS PIPE		64						2					1
0010	636+36	CROSS PIPE					67						2		1
0010	636+46	CROSS PIPE					72						2		1
		TOTAL 0010	500	754	0	136	139	422	12	16	0	4	4	8	23
PROJECT 1610-08-76															
0010	670+74	CROSSING CULVERT	79						2						1
0010	676+30	CROSSING CULVERT	92						2						1
0010	681+32	CROSSING CULVERT	74						2						1
0010	694+73	CROSSING CULVERT	103						2						1
0010	711+64	CROSSING CULVERT				268					6				3
0010	718+30	CROSSING CULVERT						183						4	2
0010	732+70	CROSSING CULVERT	88						2						1
0010	765+94	CROSSING CULVERT						164						4	2
0010	770+78	CROSSING CULVERT				89					2				1
0010	774+25	LAKE DRIVE - RT													1
0010	785+91	CROSSING CULVERT	95						2						1
0010	798+90	CROSSING CULVERT	78						2						1
0010	806+25	CROSSING CULVERT		149						2					1
0010	823+68	CROSSING CULVERT		175						2					1
0010	831+87	CROSSING CULVERT	88						2						1
0010	835+45	CROSSING CULVERT		78						2					1
0010	845+90	CROSSING CULVERT					170						4		2
0010	861+16	CROSSING CULVERT				175					2				1
0010	866+00	CROSSING CULVERT	97						2						1
0010	870+48	CROSSING CULVERT	89						2						
0010	885+78	CROSSING CULVERT				129					2				1
0010	899+91	CROSSING CULVERT		160						2					1
0010	921+37	CROSSING CULVERT				91					2				1
		TOTAL 0010	883	562	752	0	170	347	20	8	14	0	4	8	27

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

3

RIPRAP HEAVY

CATEGORY	STATION	LOCATION	606.0300 CY	REMARKS
PROJECT 1610-08-74				
0010	456+25	CULVERT END	10	30" RCCP
0010	499+65	CULVERT END	10	24" RCCP
0010	507+63	CULVERT END	10	42" RCCP
0010		UNDISTRIBUTED	40	
		TOTAL 0010	70	
PROJECT 1610-08-76				
0010	806+25	CULVERT END	10	30" RCCP
0010	823+68	CULVERT END	10	30" RCCP
0010	835+45	CULVERT END	10	30" RCCP
0010	861+16	CULVERT END	10	36" RCCP
0010	866+00	CULVERT END	10	24" RCCP
0010	899+81	CULVERT END	10	30" RCCP
0010	921+37	CULVERT END	10	36" RCCP
0010		UNDISTRIBUTED	40	
		TOTAL 0010	110	

MGS GUARDRAIL 3

CATEGORY	STATION	TO	STATION	LOCATION	614.2300 LF
PROJECT 1610-08-74					
0010	439+00	-	445+00	MAINLINE LEFT	600
0010	471+00	-	480+00	MAINLINE LEFT	900
				TOTAL 0010	1500

MGS GUARDRAIL 3 HS

CATEGORY	STATION	TO	STATION	LOCATION	614.2310 LF
PROJECT 1610-08-76					
0010	717+50	-	720+50	MAINLINE - RT	300
0010	804+50	-	807+50	MAINLINE - LT	300
0010	813+50	-	825+50	MAINLINE - LT	1200
				TOTAL 0010	1800

MGS GUARDRAIL TERMINAL EAT

CATEGORY	STATION	TO	STATION	LOCATION	614.2610 EACH
PROJECT 1610-08-74					
0010	438+50	-	439+00	MAINLINE LEFT	1
0010	445+50	-	446+00	MAINLINE LEFT	1
0010	470+50	-	471+00	MAINLINE LEFT	1
0010	479+50	-	480+00	MAINLINE LEFT	1
				TOTAL 0010	4
PROJECT 1610-08-76					
0010	717+00	-	717+50	MAINLINE RIGHT	1
0010	720+50	-	721+00	MAINLINE RIGHT	1
0010	804+00	-	804+50	MAINLINE LEFT	1
0010	807+50	-	808+00	MAINLINE LEFT	1
0010	813+00	-	813+50	MAINLINE LEFT	1
0010	825+50	-	826+00	MAINLINE LEFT	1
				TOTAL 0010	6

WATER

CATEGORY	LOCATION	624.0100 MGAL
PROJECT 1610-08-74		
0010	PROJECT	100
	TOTAL 0010	100
PROJECT 1610-08-76		
0010	PROJECT	100
	TOTAL 0010	100

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

LANDSCAPING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	SALVAGED TOPSOIL 625.0500 SY	MULCHING 627.0200 SY	EROSION MAT CLASS I TYPE A 628.2002 SY	FERTILIZER TYPE B 629.0210 CWT	SEEDING MIXTURE NO. 20 630.0120 LB	SEEDING TEMPORARY 630.0200 LB
PROJECT 1610-08-74										
0010	391+53	-	393+05	CULVERT	1103	0	1103	0.69	29.8	
0010	409+00	-	414+00	GRADING / CULVERT	2088	2088	0	1.32	56.4	
0010	417+00	-	422+00	GRADING / CULVERT	859	859	0	0.54	23.2	
0010	431+00	-	448+00	GRADING / CULVERT	12404	1614	10791	7.81	334.9	
0010	455+20	-	463+00	GRADING / CULVERT	4863	0	4863	3.06	131.3	
0010	468+00	-	483+00	GRADING / CULVERT	9399	1612	7787	5.92	253.8	
0010	497+50	-	511+50	GRADING / CULVERT	6860	6860	0	4.32	185.2	
0010	523+75	-	533+50	GRADING / CULVERT	6022	1975	4048	3.79	162.6	
0010	550+00	-	565+00	GRADING / CULVERT	6133	1287	4846	3.86	165.6	
0010	588+75	-	589+28	CULVERT	423	423	0	0.27	11.4	
0010	596+33	-	596+63	CULVERT	94	94	0	0.06	2.5	
0010	611+00	-	617+00	GRADING / CULVERT	2665	2665	0	1.68	71.9	
0010	621+56	-	621+88	CULVERT	80	80	0	0.05	2.2	
0010	632+00	-	641+50	GRADING / CULVERT	2511	2511	0	1.58	67.8	
0010				UNDISTRIBUTED	5551	2207	3233	3.43	146.9	100
				TOTAL 0010	61056	24276	36670	38.00	1646.0	100
PROJECT 1610-08-76										
0010	667+00	-	679+00	GRADING / CULVERT	6115	4262	1853	3.85	165.1	
0010	681+15	-	681+48	CULVERT	108	108	0	0.07	2.9	
0010	693+30	-	696+24	GRADING / CULVERT	1679	104	1575	1.06	45.3	
0010	696+24	-	698+00	GRADING / CULVERT	371	281	90	0.23	10.0	
0010	710+60	-	720+00	GRADING / CULVERT	4218	2253	1965	2.66	113.9	
0010	720+00	-	722+00	GRADING / CULVERT	636	248	388	0.40	17.2	
0010	731+00	-	738+00	GRADING / CULVERT	3276	1254	2022	2.06	88.4	
0010	763+50	-	768+00	GRADING / CULVERT	1747	1197	550	1.10	47.2	
0010	770+82	-	771+30	CULVERT	166	166	0	0.10	4.5	
0010	784+00	-	791+00	GRADING / CULVERT	4148	596	3552	2.61	112.0	
0010	798+07	-	799+82	GRADING / CULVERT	813	813	0	0.51	22.0	
0010	804+00	-	808+10	GRADING / CULVERT	2870	164	2706	1.81	77.5	
0010	811+83	-	826+30	GRADING / CULVERT	7482	291	7191	4.71	202.0	
0010	830+50	-	837+00	GRADING / CULVERT	3139	3139	0	1.98	84.8	
0010	845+20	-	853+00	GRADING / CULVERT	4417	3505	912	2.78	119.3	
0010	859+50	-	872+00	GRADING / CULVERT	4813	595	4218	3.03	129.9	
0010	884+00	-	890+00	GRADING / CULVERT	2576	665	1911	1.62	69.5	
0010	895+50	-	902+00	GRADING / CULVERT	4814	918	3896	3.03	130.0	
0010	917+50	-	924+20	GRADING / CULVERT	3657	3657	0	2.30	98.8	
0010				UNDISTRIBUTED	5705	2422	3283	3.59	154.0	100
				TOTAL 0010	62750	26638	36112	40.00	1694.0	100

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

EROSION BALES

CATEGORY	LOCATION	628.1104 EACH
PROJECT 1610-08-74		
0010	UNDISTRIBUTED	50
	TOTAL 0010	50
PROJECT 1610-08-76		
0010	UNDISTRIBUTED	50
	TOTAL 0010	50

SILT FENCE SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	SILT FENCE 628.1504 LF	SILT FENCE MAINTENANCE 628.1520 LF
PROJECT 1610-08-74						
0010	391+45	-	393+15	L & R	322	322
0010	408+85	-	412+80	L & R	707	707
0010	418+70	-	420+60	L & R	249	249
0010	432+52	-	446+05	L & R	2499	2499
0010	454+65	-	463+15	L & R	978	978
0010	468+00	-	478+85	L & R	958	958
0010	498+65	-	511+10	L & R	1960	1960
0010	526+00	-	530+00	L & R	692	692
0010	553+00	-	558+40	L & R	561	561
0010	563+60	-	565+15	L & R	232	232
0010	596+33		596+65	L & R	72	72
0010	610+90	-	617+15	L & R	1139	1139
0010	621+50	-	622+50	L & R	100	100
0010	632+00	-	641+60	L & R	1207	1207
0010				UNDISTRIBUTED	584	584
				TOTAL 0010	12260	12260
PROJECT 1610-08-76						
0010	667+00	-	679+00	L & R	1716	1716
0010	681+01	-	681+61	L & R	146	146
0010	693+30	-	698+00	L & R	231	231
0010	710+60	-	722+00	L & R	1558	1558
0010	731+00	-	738+00	L & R	725	725
0010	763+50	-	768+00	L & R	585	585
0010	770+79	-	771+46	L & R	115	115
0010	784+00	-	791+00	L & R	646	646
0010	798+07	-	799+82	R	210	210
0010	804+00	-	808+10	L	100	100
0010	811+83	-	826+30	L	130	130
0010	830+50	-	837+00	L & R	897	897
0010	845+20	-	853+00	L & R	524	524
0010	884+00	-	890+00	L & R	290	290
0010	917+50	-	924+22	L & R	876	876
0010				UNDISTRIBUTED	437	437
				TOTAL 0010	9186	9186

MOBILIZATIONS EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	628.1905 EACH
PROJECT 1610-08-74					
0010	390+00	-	646+50	PROJECT	10
				TOTAL 0010	10
PROJECT 1610-08-76					
0010	646+50	-	927+00	PROJECT	11
				TOTAL 0010	11

MOBILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	628.1910 EACH
PROJECT 1610-08-74					
0010	390+00	-	646+50	PROJECT	5
				TOTAL 0010	5
PROJECT 1610-08-76					
0010	390+00	-	646+50	PROJECT	5
				TOTAL 0010	5

ROCK BAGS

CATEGORY	LOCATION	628.7570 EACH
PROJECT 1610-08-74		
0010	UNDISTRIBUTED	25
	TOTAL 0010	25
PROJECT 1610-08-76		
0010	UNDISTRIBUTED	25
	TOTAL 0010	25

MARKERS CULVERT END

CATEGORY	STATION	LOCATION	633.5200 EACH
PROJECT 1610-08-74			
0010	392+27	CULVERT	4
0010	411+53	CULVERT	2
0010	420+11	CULVERT	2
0010	439+75	CULVERT	2
0010	456+25	CULVERT	2
0010	460+10	CULVERT	2
0010	472+36	CULVERT	2
0010	478+32	CULVERT	2
0010	499+65	CULVERT	2
0010	507+63	CULVERT	2
0010	528+08	CULVERT	4
0010	556+96	CULVERT	2
0010	564+58	CULVERT	2
0010	589+02	CULVERT	2
0010	596+48	CULVERT	2
0010	606+60	CULVERT	2
0010	615+48	CULVERT	2
0010	621+72	CULVERT	2
0010	636+41	CULVERT	4
		TOTAL 0010	44
PROJECT 1610-08-76			
0010	670+74	CULVERT	2
0010	676+30	CULVERT	2
0010	681+32	CULVERT	2
0010	694+73	CULVERT	2
0010	711+64	CULVERT	6
0010	718+30	CULVERT	4
0010	732+70	CULVERT	2
0010	765+94	CULVERT	4
0010	770+78	CULVERT	2
0010	785+91	CULVERT	2
0010	798+90	CULVERT	2
0010	806+25	CULVERT	2
0010	814+94	CULVERT	2
0010	823+68	CULVERT	2
0010	831+87	CULVERT	2
0010	835+45	CULVERT	2
0010	845+90	CULVERT	4
0010	861+16	CULVERT	2
0010	866+00	CULVERT	2
0010	870+48	CULVERT	2
0010	885+78	CULVERT	2
0010	899+81	CULVERT	2
0010	921+37	CULVERT	2
		TOTAL 0010	56

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

SIGNING SUMMARY

CATEGORY	SIGN NUMBER	SIDE	STATION	SIGN CODE	DESCRIPTION	MOVING SIGNS TYPE II 638.2102 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	REMARKS
PROJECT 1610-08-74										
0010	1	R	392+08	D1-2	SPILLERBERG CREEK		1		1	
0010	2	L	392+27	D1-2	SPILLERBERG CREEK		1		1	
0010	3	L	404+15	W14-3	NO PASSING ZONE					
0010	4	L	407+05	W11-3	DEER CROSSING		1	1		
0010	5	R	408+40	S3-1	SCHOOL BUS STOP AHEAD					
0010	6	L	408+52	J4-1	SOUTH, 13					
0010	7	L	415+00		SCHOCH RD					
0010	8	L	415+10	R1-1	STOP					
0010	9	R	416+00	R1-1	STOP					
0010	10	R	416+10		MORSE CUTOFF RD					
0010	11	R	419+20	D7-64	NAT'L FOREST PICNIC AREA					
0010	12	R	421+25	D1-1	MORSE RD					
0010	13	R	424+25	D1-1	MORSE					
0010	14	R	426+78	R1-1	STOP					
0010	15	R	426+80		MORSE RD					
0010	16	R	427+90	I55-56	ADOPT A HIGHWAY					
0010	17	L	430+50	D1-1	MORSE					
0010	18	L	432+60	S3-1	SCHOOL BUS STOP AHEAD	1			1	
0010	19	L	435+00	D1-1	MORSE RD	1			2	
0010	20	R	438+05	W14-3	NO PASSING ZONE	1			1	
0010	21	L	453+12		SCHOCH RD					
0010	22	L	453+20	R1-1	STOP					
0010	23	L	469+82	W14-3	NO PASSING ZONE	1			1	
0010	24	R	476+11	D1-1	LINDEN RD	1			2	
0010	25	L	482+70		LINDEN RD	1			1	
0010	26	L	482+75	R1-1	STOP	1			1	
0010	27	R	484+38	D7-66-L, DB5-69B	NAT'L FOREST PICNIC AREA, BOAT LANDING					
0010	28	L	485+90	D7-66-R, DB5-69B	NAT'L FOREST PICNIC AREA, BOAT LANDING					
0010	29	L	490+35	D1-1	LINDEN RD					
0010	30	R	493+57	W14-3	NO PASSING ZONE					
0010	31	R	512+40	D2-1	THOLE RD, MORSE RD					
0010	32	R	513+94	D1-1	MORSE					
0010	33	R	519+63	R1-1	STOP					
0010	34	L	519+42	D1-1	THOLE RD					
0010	35	L	519+43	R1-1	STOP					
0010	36	R	519+80	D1-1	MORSE RD					
0010	37	R	521+78	W11-3	DEER CROSSING		1	1		
0010	38	R	523+30	J4-2	NORTH, 13, EAST, 77					
0010	39	L	525+11	D1-1	MORSE	1			1	
0010	40	L	526+84	D2-1	MORSE RD, THOLE RD	1			2	
0010	41	L	528+68	W14-3	NO PASSING ZONE	1			1	
0010	42	L	543+75	D7-64	NAT'L FOREST PICNIC AREA 1 MILE					
0010	43	R	576+98	W14-3	NO PASSING ZONE					
0010	44	L	578+71	I55-56	ADOPT A HIGHWAY					
0010	45	R	479+72	W1-2L	LEFT CURVE	1			1	

SIGNING SUMMARY CONTINUED ON NEXT PAGE

3

SIGNING SUMMARY

CATEGORY	SIGN NUMBER	SIDE	STATION	SIGN CODE	DESCRIPTION	MOVING SIGNS TYPE II 638.2102 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	REMARKS
0010	46	R	580+65	W5-52R	CHEVRON	1			1	
0010	47	L	580+65	W5-52L	CHEVRON	1			1	
0010	48	L	582+61	W5-62L	CHEVRON	1			1	
0010	49	R	582+61	WT-62R	CHEVRON	1			1	
0010	50	L	583+05	I3-1	BAD RIVER	1			1	
0010	51	L	585+75	W14-3	NO PASSING ZONE					
0010	52	R	608+25	W14-3	NO PASSING ZONE					
0010	53	L	610+87	W1-2R	CURVE RIGHT	1			1	
0010	54	L	619+53	W14-3	NO PASSING ZONE					
0010	55	R	623+36	D1-1	CAYUGA					
0010	56	L	626+94	W11-3	DEER CROSSING		1	1		
0010	57	L	632+86		CAYUGA RD					
0010	58	L	632+90	R1-1	STOP					
0010	59	R	632+86	R1-1	STOP					
0010	60	R	532+90		CAYUGA RD					
0010	61	R	632+31	W11-6	SNOWMOBILE CROSSING	1			1	
0010	62	L	632+96	D1-1	CAYUGA					
0010	63	L	635+57	R1-1	STOP					
0010	64	L	642+55	J4-2	SOUTH, 13, WEST, 77					
0010	65	R	644+55	W14-3	NO PASSING ZONE					
PROJECT 1610-08-74					TOTAL 0010	18	5	3	23	

SIGNING SUMMARY CONTINUED ON NEXT PAGE

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

SIGNING SUMMARY

CATEGORY	SIGN NUMBER	SIDE	STATION	SIGN CODE	DESCRIPTION	POSTS WOOD 4X4-INCH X 16-FT 634.0416 EACH	SIGNS TYPE II REFLECTIVE H 637.2210 SF	MOVING SIGNS TYPE II 638.2102 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	REMARKS
PROJECT 1610-08-76												
0010	1	L	650+85	W14-3	NO PASSING ZONE							
0010	2	R	672+25	W14-3	NO PASSING ZONE			1			1	
0010	3	L	683+05	W14-3	NO PASSING ZONE							
0010	4	R	706+25	W14-3	NO PASSING ZONE							
0010	5	R	707+30	R1-1	STOP							
0010	6	R	707+30	D1-1	PONSEGRAU RD							REPLACE IN SAME LOCATION AFTER GRADING
0010	7	R	713+00	J1-1	JCT FEDERAL FOREST ROUTE 184			1			1	
0010	8	L	719+75	D1-1	FEDERAL FOREST ROUTE 184			1			1	REPLACE IN SAME LOCATION AFTER GRADING
0010	9	L	720+00	R1-1	STOP			1			1	
0010	10	R	720+20	J12-1	FEDERAL FOREST ROUTE 184, LEFT ARROW			1			1	
0010	11	L	720+65	J12-1	FEDERAL FOREST ROUTE 184, RIGHT ARROW							
0010	12	L	727+15	J1-1	JCT FEDERAL FOREST ROUTE 184							
0010	13	L	730+20	W14-3	NO PASSING ZONE							
0010	14	R	765+70	D1-1	W LAKE DR (RIGHT ARROW)			1			1	
0010	15	R	767+90	W14-3	NO PASSING ZONE			1			1	
0010	16	L	771+50	J4-2	SOUTH 13 WEST 77							
0010	17	L	773+35	W14-3	NO PASSING ZONE							
0010	18	R	774+10	R1-1	STOP							
0010	19	R	774+10	D1-1	LAKE DRIVE							## REPLACE IN SAME LOCATION AFTER GRADING
0010	20	R	776+00	J4-2	NORTH 13 EAST 77							
0010	21	L	781+15	D1-1	(LEFT ARROW) W LAKE DR							
0010	22	R	796+65	W7-1	HILL SYMBOL (7%)							
0010	23	R	808+00	R1-1	STOP							
0010	24	R	808+10	D1-1	FOLEY RD							REPLACE IN SAME LOCATION AFTER GRADING
0010	25	L	828+10	D1-1	FOLEY RD							REPLACE IN SAME LOCATION AFTER GRADING
0010	26	L	828+20	R1-1	STOP							
0010	27	R	829+35	R1-1	STOP							
0010	28	R	829+45	D1-1	TAFELSKI RD							REPLACE IN SAME LOCATION AFTER GRADING
0010	29	R	832+75	I55-56	ADOPT A HIGHWAY			1			1	"MELLEN LIONS CLUB"
0010	30	R	834+35	W14-3	NO PASSING ZONE			1			1	
0010	31	L	841+60	W14-3	NO PASSING ZONE							
0010	32	R	865+85	W14-3	NO PASSING ZONE							
0010	33	L	873+30	W14-3	NO PASSING ZONE							
0010	34	R	884+90	W7-1	HILL SYMBOL (7%)							
0010	35	R	886+45	W2-2	SIDE ROAD (RIGHT ANGLE) SYMBOL			1			1	
0010	36	R	892+30	D7-62	ROAD TO NAT'L FOREST CAMPGOUND 1 MILE							
0010	37	R	894+10	R1-1	STOP							
0010	38	R	894+20	D1-1	PINECREST RD							REPLACE IN SAME LOCATION AFTER GRADING
0010	39	R	902+75	D1-1	MELLEN, POPULATION 731							
0010	40	R	902+75	W14-3	NO PASSING ZONE							
0010	41	L	908+85	D1-1	BERKSHIRE DR							REPLACE IN SAME LOCATION AFTER GRADING
0010	42	L	908+95	R1-1	STOP							
0010	43	L	913+05	W14-3	NO PASSING ZONE							
0010	44	R	913+20	W3-5	REDUCED SPEED LIMIT AHEAD 25							
0010	45	R	913+70	R7-1D	NO PARKING ANY TIME DOUBLE ARROW							
0010	46	R	914+20	D7-52	ROAD TO COPPER FALLS STATE PARK 1 MILE							
0010	47	R	917+50	R7-1D	NO PARKING ANY TIME DOUBLE ARROW			1			1	
0010	48	L	919+15	J4-2	SOUTH 13 WEST 77			1			1	
0010	49	L	921+00	D1-1	HAYWARD 59			1			2	EXISTING SIGN INCLUDES "GLIDDEN 16", WILL NOT BE REPLACED
0010	50	R	921+95	R7-1D	NO PARKING ANY TIME DOUBLE ARROW			1			1	
0010	51	L	921+95	R2-1	SPEED LIMIT 55			1			1	
0010	52	L	924+00	I55-56	ADOPT A HIGHWAY			1			1	"MELLEN LIONS CLUB"
0010	53	R	924+05	R2-1	SPEED LIMIT 25			1			1	
0010	54	R	926+10	W2-1	CROSS ROAD							
0010	55	R	927+20	S1-1	SCHOOL ZONE							

SIGNING SUMMARY CONTINUED ON NEXT PAGE

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

SIGNING SUMMARY

CATEGORY	SIGN NUMBER	SIDE	STATION	SIGN CODE	DESCRIPTION	POSTS WOOD 4X4-INCH X 16-FT 634.0416 EACH	SIGNS TYPE II REFLECTIVE H 637.2210 SF	MOVING SIGNS TYPE II 638.2102 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	REMARKS
CTH GG DETOUR PERMANENT SIGNING												
0010	1	--	0+00	J12-2	CTH M, LEFT ARROW, CTH GG, BIDIRECTIONAL	1.00	15.00		1	1		
0010	2	L	0+25	R1-1	STOP	1.00	6.25		1	1		
0010	3	L	10+00	W3-1	STOP AHEAD	1.00	9.00		1	1		
0010	4	R	31+00	W14-3	NO PASSING ZONE	1.00	6.00					
0010	5	L	64+00	W14-3	NO PASSING ZONE	1.00	6.00					
0010	6	R	91+00	W14-3	NO PASSING ZONE	1.00	6.00					
0010	7	R	94+50	W11-6	SNOWMOBILE	1.00	6.25		1	1		
0010	8	L	109+00	W11-6	SNOWMOBILE	1.00	6.25		1	1		
0010	9	L	113+75	W14-3	NO PASSING ZONE	1.00	6.00					
0010	10	R	146+80	W14-3	NO PASSING ZONE	1.00	6.00					
0010	11	R	168+90	W14-3	NO PASSING ZONE	1.00	6.00					
0010	12	L	205+00	W14-3	NO PASSING ZONE	1.00	6.00					
0010	13	R	219+60	W14-3	NO PASSING ZONE	1.00	6.00					
0010	14	L	248+90	W14-3	NO PASSING ZONE	1.00	6.00					
0010	15	L	275+25	W14-3	NO PASSING ZONE	1.00	6.00					
0010	16	R	275+60	W14-3	NO PASSING ZONE	1.00	6.00					
0010	17	L	329+50	I55-56, I55-56P	ADOPT A HIGHWAY	1.00	7.50		1	1		FAMILIES OF SPIDER LAKE
0010	18	R	329+50	I55-56, I55-56P	ADOPT A HIGHWAY	1.00	7.50		1	1		FAMILY OF JOHN & LINDA WIRNER
0010	19	L	333+10	W14-3	NO PASSING ZONE	1.00	6.00					
0010	20	R	333+30	W14-3	NO PASSING ZONE	1.00	6.00					
0010	21	R	423+00	W1-2R, W13-1	RIGHT TURN, 45 MPH	1.00	11.25		1	1		
0010	22	L	433+00	I55-56, I55-56P	ADOPT A HIGHWAY	1.00	7.50		1	1		FAMILY OF JOHN & LINDA WIRNER
0010	23	L	423+00	W1-2L, W13-1	LEFT TURN, 45 MPH	1.00	11.25		1	1		
0010	24	L	474+00	W5-52L	CHEVRON	1.00	3.00		1	1		
0010	25	R	474+00	W5-52R	CHEVRON	1.00	3.00		1	1		
0010	26	L	475+00	W5-52L	CHEVRON	1.00	3.00		1	1		
0010	27	R	475+00	W5-52R	CHEVRON	1.00	3.00		1	1		
0010	28	L	548+50	W14-3	NO PASSING ZONE	1.00	6.00					
0010	29	R	548+50	W14-3	NO PASSING ZONE	1.00	6.00					
0010	30	R	557+00	W14-3	NO PASSING ZONE	1.00	6.00					
0010	31	R	559+00	W1-2R, W13-1	RGIHT TURN, 45 MPH	1.00	11.25		1	1		
0010	32	L	582+00	W1-2L, W13-1	LEFT TURN, 45 MPH	1.00	11.25		1	1		
0010	33	L	585+25	W14-3	NO PASSING ZONE	1.00	6.00					
0010	34	R	585+75	W14-3	NO PASSING ZONE	1.00	6.00					
0010	35	R	582+00	W1-2R, W13-1	RIGHT TURN, 45 MPH	1.00	11.25		1	1		
0010	36	R	592+00	W2-2	T-INTERSECTION	1.00	6.25		1	1		
0010	37	L	607+00	W1-2L, W13-1	LEFT TURN, 45 MPH	1.00	11.25		1	1		
0010	38	L	640+50	W14-3	NO PASSING ZONE	1.00	6.00					
0010	39	R	641+50	W14-3	NO PASSING ZONE	1.00	6.00					
0010	40	R	664+00	W1-5L, W13-1, W57	S ROAD, 45MPH, NEXT 2 MILES	1.00	11.63		1	1		
0010	41	L	715+00	D7-56R	BOAT LANDING RIGHT ARROW	1.00	12.00		1	1		
0010	42	L	778+50	D7-54	BOAT LANDING 1 MILE	1.00	12.00		1	1		
0010	43	L	818+50	I55-56, I55-56P	ADOPT A HIGHWAY	1.00	7.50		1	1		PENOKEE MOUNTAIN SKI CLUB
0010	44	L	845+40	W14-3	NO PASSING ZONE	1.00	6.00					
0010	45	L	874+50	W5-52L	CHEVRON	1.00	3.00		1	1		
0010	46	R	874+50	W5-52R	CHEVRON	1.00	3.00		1	1		
0010	47	L	876+00	W5-52L	CHEVRON	1.00	3.00		1	1		
0010	48	R	876+00	W5-52R	CHEVRON	1.00	3.00		1	1		
0010	49	L	664+00	W1-5L, W13-1, W57	S ROAD, 45MPH, NEXT 2 MILES	1.00	11.63		1	1		
0010	50	L	899+10	W14-3	NO PASSING ZONE	1.00	6.00					
0010	51	R	900+20	W14-3	NO PASSING ZONE	1.00	6.00					
0010	52	L	940+75	W14-3	NO PASSING ZONE	1.00	6.00					
0010	53	R	948+40	W14-3	NO PASSING ZONE	1.00	6.00					
0010	53	R	957+00	W3-5	SPEED LIMIT 40 MPH AHEAD	1.00	9.00		1	1		
0010	54	R	962+50	R2-1	SPEED LIMIT 40 MPH	1.00	5.00		1	1		

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SIGNING SUMMARY

CATEGORY	SIGN NUMBER	SIDE	STATION	SIGN CODE	DESCRIPTION	POSTS WOOD 4X4-INCH X 16-FT 634.0416 EACH	SIGNS TYPE II REFLECTIVE H 637.2210 SF	MOVING SIGNS TYPE II 638.2102 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	REMARKS
CTH GG DETOUR PERMANENT SIGNING												
0010	55	L	962+75	R2-1	SPEED LIMIT 55 MPH	1.00	5.00		1	1		
0010	56	R	980+25	W3-5	SPEED LIMIT 25 MPH AHEAD	1.00	9.00		1	1		
0010	57	R	984+75	R2-1	SPEED LIMIT 25 MPH	1.00	5.00		1	1		
0010	58	L	985+50	I55-56, I55-56P	ADOPT A HIGHWAY	1.00	7.50		1	1		PENOKEE MOUNTAIN SKI CLUB
0010	59	L	986+50	R2-1	SPEED LIMIT 40 MPH	1.00	5.00		1	1		
0010	60	R	987+50	W10-1	RAILROAD	1.00	9.00		1	1		
0010	61	R	990+50	R15-1, R8-9	RAILROAD CROSSING, TRACKS OUT OF SEVICE							
0010	62	L	991+50	R15-1, R8-9	RAILROAD CROSSING, TRACKS OUT OF SEVICE							
0010	63	L	996+00	W10-1	RAILROAD	1.00	9.00		1	1		
0010	64	R	1000+00	R2-1	SPEED LIMIT 25	1.00	5.00		1	1		
0010	65	L	1004+00	R2-1	SPEED LIMIT 25	1.00	5.00		1	1		
0010	66	L	1007+75	R2-1	SPEED LIMIT 25	1.00	5.00		1	1		
0010	67	L	1007+75	R2-1	SPEED LIMIT 25	1.00	5.00		1	1		
0010	68	R	1007+75	R2-1	SPEED LIMIT 25	1.00	5.00		1	1		
0010	69	L	1019+00	M1-5A	CTH GG	1.00	4.00		1	1		
0010	70	R	1019+00	R2-1	SPEED LIMIT 25	1.00	5.00		1	1		
0010	71	R	1023+00	W11-8	FIRE DEPARTMENT	1.00	6.25		1	1		
0010	72	L	1024+50	R2-1	SPEED LIMIT 25 MPH	1.00	5.00		1	1		
0010	73	R	1025+00	R1-1, R1-10-P	STOP, EXCEPT RIGHT TURN	1.00	10.00		1	1		
0010	74	R	1025+00	J12-1	CTH GG, RIGHT ARROW	1.00	7.50		1	1		
0010	75	L	1026+00	J12-1	CTH GG, LEFT ARROW	1.00	7.50		1	1		
0010	76	R	1028+98	R1-1	STOP	1.00	6.25		1	1		
0010	77	R	1028+98	M1-5A, M4-6	END, CTH GG	1.00	6.00		1	1		
0010	78	R	1028+98	D7-53L	COPPER FALLS STATE PARK LEFT ARROW	1.00	13.50		1	1		
PROJECT 1610-08-76					TOTAL 0010	77	527	17	52	52	18	

FIELD OFFICE TYPE C

CATEGORY	LOCATION	642.5201 EACH
PROJECT 1610-08-74		
0010	PROJECT	0.45
	TOTAL 0010	0.45
PROJECT 1610-08-76		
0010	PROJECT	0.45
	TOTAL 0010	0.45

ALL TRAFFIC CONTROL ITEMS SHOWN IN THE TRAFFIC CONTROL SUMMARY TALBE ARE UNDER CONTRACT 1610-08-74. THE ONLY TRAFFIC CONTROL ITEM UNDER 1610-08-76 IS 643.5000, TRAFFIC CONTROL.

NOTE:
THERE IS ONLY ONE (1) CYCLE FOR TRAFFIC CONTROL COVERING SIGNS TYPE II.

3

TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
PROJECT 1610-08-74													
TRAFFIC CONTROL													
0010												0.45	PROJECT 1610-08-74
0010		SDD15C4	10	137	VARIES	ADVANCE WARNING				1370			TC, ADVANCE WARNING SIGNS 45 MPH OR GREATER
0010		CONST. DET	10	21	VARIES	CULVERT REPLACEMENT - DETOUR		294	210	210			TC AROUND CULVERT REPLACEMENT DURING DETOUR
0010		CONST. DET	4	137	VARIES	CULVERT REPLACEMENT	800			548			TEMP. SIGNING AND PERM. MARKING AT CULVERT PIPE REPLACEMENT
DETOUR SIGNING													ALL DETOUR SIGNING IS UNDER CONTRACT 1610-08-74
0010	D1	D1	1	21	M3-3	SOUTH				21			N OF 13/GG INT ON 13 IN MELLEN
0010			1	21	M1-6	13				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	W20-2A	DETOUR AHEAD				21			
0010	D2	D1	1	21	M4-8	DETOUR				21			N OF 13/GG INT ON 13 IN MELLEN
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010	D3	D1	1	21	M4-8	DETOUR				21			N OF GG/HILLCREST DR INT ON GG IN MELLEN
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN LEFT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M06-1	TURN LEFT				21			
0010	D4	D1	1	21	M4-8	DETOUR				21			S OF 13/GG INT ON 13 IN MELLEN
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-4	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010	D5	D1	1	21	M4-8	DETOUR				21			S OF GG/HILLCREST DR INT ON GG IN MELLEN
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN RIGHT				21			

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NOTE:
THERE IS ONLY ONE (1) CYCLE FOR TRAFFIC CONTROL COVERING SIGNS TYPE II.

3

TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	D6	D1	1	21	M4-8	DETOUR				21			S OF GG/HILLCREST DR INT ON GG IN MELLEN
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	D7	D1	1	21	M4-8	DETOUR				21			S OF GG/HILLCREST DR INT ON GG IN MELLEN
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010	D8	D1	1	21	M4-8	DETOUR				21			S OF 13/GG INT ON 13 IN MELLEN
0010		D1	1	21		COVER SIGNS (WEST 77 STRAIGHT)				21	3		S OF 13/GG INT ON 13 IN MELLEN
0010	D9	D1	1	21	R11-3	ROAD CLOSED TO THRU TRAFFIC		42	84	21			S OF 13/E 77 INT ON 13 IN MELLEN
0010	D10	D1	1	21	M4-8	DETOUR				21			S OF 13/E 77 INT ON 13 IN MELLEN
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010	D11	D1	1	21	M4-8	DETOUR				21			S OF 13/GG INT ON 13 IN MELLEN
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010	D12	D1	1	21	M4-8A	END DETOUR				21			E OF 13/E 77 INT ON 13 IN MELLEN
0010	D13	D1	1	21	W20-2A	DETOUR AHEAD				21			E OF 13/E 77 INT ON 13 IN MELLEN
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010	D14	D1	1	21	M4-8	DETOUR				21			E OF 13/E 77 INT ON 13 IN MELLEN
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			

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NOTE:
THERE IS ONLY ONE (1) CYCLE FOR TRAFFIC CONTROL COVERING SIGNS TYPE II.

3

TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	D15	D1	1	21	A4-12	COVER ARROW RIGHT				21			W OF 13/E 77 INT ON 13 IN MELLEN
0010			1	21	A4-12	COVER ARROW RIGHT				21			W OF 13/E 77 INT ON 13 IN MELLEN
0010	D16	D1	1	21	M4-8	DETOUR				21			W OF 13/E 77 INT ON 13 IN MELLEN
0010			1	21	M06-1	TURN RIGHT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010	D17	D1	1	21	D1-1	(LEFT ARROW) GLIDDEN				21			W OF 13/E 77 INT ON 13 IN MELLEN
0010			1	21	D1-1	(LEFT ARROW) HAYWARD				21			W OF 13/E 77 INT ON 13 IN MELLEN
0010	D18	D1	1	21	M4-8	DETOUR				21			W OF 13/GG INT ON 13 IN MELLEN
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN LEFT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M6-1	TURN RIGHT				21			
0010	D19	D1	1	21	M4-8	DETOUR				21			E OF 13/GG INT ON 13 IN MELLEN
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M6-1	TURN RIGHT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M6-1	TURN RIGHT				21			
0010	D20	D1	1	21	M4-8A	END DETOUR				21			N OF 13/GG INT ON 13 IN MELLEN
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010	D21	D2	1	21	M4-8	DETOUR				21			N OF CTH M/CTH GG ON CTH M IN CLAM LAKE
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010	D22	D2	1	21	M4-8	DETOUR				21			N OF CTH M/CTH GG INT ON CTH M IN CLAM LAKE
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN LEFT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M06-1	TURN LEFT				21			
0010	D23	D2	1	21	M4-8A	END DETOUR				21			W OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010	D24	D2	1	21	M1-6	NORTH				21			SW OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M3-1	13				21			
0010			1	21	W20-2A	DETOUR AHEAD				21			

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NOTE:
THERE IS ONLY ONE (1) CYCLE FOR TRAFFIC CONTROL COVERING SIGNS TYPE II.

3

TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	D25	D2	1	21	M4-8	DETOUR				21			W OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010	D26	D2	1	21	M4-8	DETOUR				21			E OF CTH M/CTH GG INT ON CTH M IN CLAM LAKE
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010	D27	D2	1	21	M4-8	DETOUR				21			W OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN LEFT				21			
0010	D28	D2	1	21	M4-8	DETOUR				21			E OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	D29	D2	1	21	M4-8	DETOUR				21			E OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010	D30	D2	1	21	M4-8	DETOUR				21			E OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010	D31	D2	1	21	M4-8	DETOUR				21			N OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN LEFT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-4	WEST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010	D32	D2	1	21	D1-1	(LEFT ARROW) GLIDDEN				21			W OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	D1-1	(RIGHT ARROW) HAYWARD				21			

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NOTE:
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3

TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	D33	D2	1	21	M4-8	DETOUR				21			E OF CTH M/CTH GG INT ON CTH M IN CLAM LAKE
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M6-1	TURN RIGHT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M6-1	TURN RIGHT				21			
0010	D34	D2	1	21	M4-8	DETOUR				21			N OF CTH M/CTH GG INT ON CTH M IN CLAM LAKE
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010	D35	D2	1	21	M4-8	DETOUR				21			N OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010	D36	D2	1	21	M4-8	DETOUR				21			N OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	D37	D3	1	21	M4-8	DETOUR				21			N OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-2R	KEEP RIGHT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M05-2R	KEEP RIGHT AHEAD				21			
0010	D38	D3	1	21	M4-8	DETOUR				21			N OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-2	KEEP RIGHT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M06-2	KEEP RIGHT				21			
0010	D39	D3	1	21	M4-8	DETOUR				21			W OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010	D40	D3	1	21	M4-8	DETOUR				21			W OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	RURN RIGHT AHEAD				21			

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3

TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	D41	D3	1	21		COVER SIGNS (MELLEN + ASHLAND)				21	2		W OF 13/W 77 INT ON 13 IN GLIDDEN
0010	D42	D3	1	21	M4-8	DETOUR				21			W OF 13/W 77 INT ON 13 IN GLIDDEN
0010		D3	1	21		COVER SIGNS (NORTH 13 LEFT + EAST 77 LEFT)				21	6		W OF 13/W 77 INT ON 13 IN GLIDDEN
0010	D43	D3	1	21	M4-8A	END DETOUR				21			S OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	D44	D3	1	21	W20-2A	DETOUR AHEAD				21			S OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010	D45	D3	1	21	M3-4	WEST				21			S OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M1-6	77				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-2	EAST				21			
0010			1	21	M1-6	77				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010	D46	D3	1	21	A4-12	(LEFT ARROW)				21			S OF 13/W 77 INT ON 13 IN GLIDDEN
0010	D47	D3	1	21	M4-8	DETOUR				21			E OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M06-1	TURN LEFT				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M06-1	TURN LEFT				21			
0010	D48	D3	1	21	R11-4	ROAD CLOSED TO THRU TRAFFIC	42		84	21			N OF 13/W 77 INT ON 13 IN GLIDDEN
0010	D49	D3	1	21	M4-9L	ROAD CLOSED TO THRU TRAFFIC	42		84	21			N OF 13/W 77 INT ON 13 IN GLIDDEN
TRUCK DETOUR													
0010	TD1	D2	1	21	M4-4	TRUCK				21			W OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010	TD2	D2	1	21	M4-4	TRUCK				21			W OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010	TD3	D2	1	21	M4-4	TRUCK				21			S OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			

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TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	TD4	D2	1	21	M4-4	TRUCK				21			E OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010	TD5	D2	1	21	M4-4	TRUCK				21			E OF W 77/CTH M INT ON W 77 IN CLAM LAKE
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010	TD6	D3	1	21	M4-4	TRUCK				21			W OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010	TD7	D3	1	21	M4-4	TRUCK				21			S OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010	TD8	D3	1	21	M4-4	TRUCK				21			E OF 13/W 77 INT ON 13 IN GLIDDEN
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN LEFT				21			
0010	TD9	TD1	1	21	M4-4	TRUCK				21			NW OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M1-6	13				21			
0010			1	21	W20-2A	DETOUR AHEAD				21			
0010	TD10	TD1	1	21	M4-4	TRUCK				21			NW OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			
0010			1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010	TD11	TD1	1	21	M4-4	TRUCK				21			NW OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN LEFT				21			
0010			1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			

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0010	TD12	TD1	1	21	M4-4	TRUCK				21			SW OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M1-6	13				21			
0010			1	21	W20-2A	DETOUR AHEAD				21			
0010	TD13	TD1	1	21	M4-4	TRUCK				21			SW OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010			1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010	TD14	TD1	1	21	M4-4	TRUCK				21			SW OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010			1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010	TD15	TD1	1	21	M4-4	TRUCK				21			SE OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD16	TD1	1	21	M4-4	TRUCK				21			SE OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010	TD17	TD1	1	21	M4-4	TRUCK				21			SE OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010	TD18	TD1	1	21	M4-4	TRUCK				21			SE OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010	TD19	TD1	1	21	M4-4	TRUCK				21			NE OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1L	TURN LEFT AHEAD				21			

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CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	TD20	TD1	1	21	M4-4	TRUCK				21			NE OF 63/W 77 INT ON 63 IN HAYWARD
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN LEFT				21			
0010	TD21	TD2	1	21	M4-4	TRUCK				21			SW OF 2/63 INT ON 2 IN MASON
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	W20-2A	DETOUR AHEAD				21			
0010	TD22	TD2	1	21	M4-4	TRUCK				21			SW OF 2/63 INT ON 2 IN MASON
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010	TD23	TD2	1	21	M4-4	TRUCK				21			SW OF 2/63 INT ON 2 IN MASON
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010	TD24	TD2	1	21	M4-4	TRUCK				21			S OF 2/63 INT ON 2 IN MASON
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD25	TD2	1	21	M4-4	TRUCK				21			S OF 2/63 INT ON 2 IN MASON
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	TURN RIGHT AHEAD				21			
0010	TD26	TD2	1	21	M4-4	TRUCK				21			NE OF 2/63 INT ON 2 IN MASON
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	TURN RIGHT				21			
0010	TD27	TD2	1	21	M4-4	TRUCK				21			NE OF 2/63 INT ON 2 IN MASON
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M5-1L	TURN LEFT AHEAD				21			
0010	TD28	TD2	1	21	M4-4	TRUCK				21			NE OF 2/63 INT ON 2 IN MASON
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M6-1	TURN LEFT				21			

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NOTE:
THERE IS ONLY ONE (1) CYCLE FOR TRAFFIC CONTROL COVERING SIGNS TYPE II.

3

TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	TD29	TD2	1	21	M4-4	TRUCK				21			S OF 2/51 INT ON 2 IN HURLEY
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010	TD30	TD3	1	21	M4-4	TRUCK				21			S OF 2/51 INT ON 2 IN HURLEY
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD31	TD3	1	21	M4-4	TRUCK				21			E OF 2/51 INT ON 2 IN HURLEY
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010	TD32	TD3	1	21	M4-4	TRUCK				21			E OF 2/51 INT ON 2 IN HURLEY
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-2	STRAIGHT AHEAD				21			
0010	TD33	TD3	1	21	M4-4	TRUCK				21			N OF 51/E 77 INT ON 51 IN HURLEY
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010	TD34	TD3	1	21	M4-6	END				21			S OF 51/E 77 INT ON 51 IN HURLEY
0010			1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010	TD35	TD3	1	21	M4-4	TRUCK				21			W OF 51/47 INT ON 51 IN MERCER
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD36	TD3	1	21	M4-4	TRUCK				21			W OF 51/47 INT ON 51 IN MERCER
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010	TD37	TD3	1	21	M4-4	TRUCK				21			S OF 51/47 INT ON 51 IN MERCER
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	W20-2A	DETOUR AHEAD				21			
0010	TD38	TD3	1	21	M4-4	TRUCK				21			W OF 47/182 INT ON 47 IN PARK FALLS
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	W20-2A	DETOUR AHEAD				21			

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

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NOTE:
THERE IS ONLY ONE (1) CYCLE FOR TRAFFIC CONTROL COVERING SIGNS TYPE II.

3

TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	TD39	TD3	1	21	M4-4	TRUCK				21			W OF 47/182 INT ON 47 IN PARK FALLS
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M0B5-2R	RIGHT AHEAD				21			
0010	TD40	TD3	1	21	M4-4	TRUCK				21			S OF 47/182 INT ON 47 IN PARK FALLS
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-2	STAY RIGHT				21			
0010	TD41	TD3	1	21	M4-4	TRUCK				21			E OF 13/182 INT ON 13 IN PARK FALLS
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-2	STAY RIGHT				21			
0010	TD42	TD3	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD43	TD3	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	MB4-20R	USE RIGHT LANE				21			
0010	TD44	TD3	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-2	STAY RIGHT				21			
0010	TD45	TD3	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD46	TD3	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	MB4-20R	USE LEFT LANE				21			
0010	TD47	TD3	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010	TD48	TD3	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			

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TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	TD49	TD3	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD50	TD3	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	STRAIGHT AHEAD				21			
0010	TD51	TD3	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-1	NORTH				21			
0010			1	21	M1-6	13				21			
0010	TD52	TD4	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD53	TD4	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-2	STAY RIGHT				21			
0010	TD54	TD4	1	21	M4-4	TRUCK				21			
0010			1	21	M3-3	SOTUH				21			
0010			1	21	M1-6	13				21			
0010			1	21	W20-2A	DETOUR AHEAD				21			
0010	TD55	TD4	1	21	SPECIAL	WIS 13S CLOSED AT MELLEN TRUCKS FOLLOW DETOUR				21			
0010	TD56	TD4	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-2	STRAIGHT AHEAD				21			
0010	TD57	TD4	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD58	TD5	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	RIGHT AHEAD				21			
0010	TD59	TD5	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-2	STRAIGHT AHEAD				21			

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TRAFFIC CONTROL SUMMARY

CATEGORY	SIGN GROUP #	DETAIL	SIGN	DAYS	SIGN CODE	DESCRIPTION	TRAFFIC CONTROL DRUMS 643.0300 DAY	TRAFFIC CONTROL BARRICADES TYPE III 643.0420 DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705 DAY	TRAFFIC CONTROL SIGNS 643.0900 DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 EACH	TRAFFIC CONTROL 643.5000 EACH	LOCATION / NOTES
0010	TD60	TD5	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD61	TD6	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M05-1R	RIGHT AHEAD				21			
0010	TD62	TD6	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD63	TD6	1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010			1	21	M06-1	RIGHT				21			
0010	TD64	TD7	1	21	M4-6	END				21			
0010			1	21	M4-4	TRUCK				21			
0010			1	21	M4-8	DETOUR				21			
0010			1	21	M3-3	SOUTH				21			
0010			1	21	M1-6	13				21			
0010	TD65	TD7	1	21	SPECIAL	WIS 13S CLOSED AT MELLEN TRUCKS FOLLOW DETOUR				21			
0010	REASSURANC	D1	16	21	M4-8	DETOUR				336			VARIOUS LOCATIONS (CAR DETOUR)
0010			8	21	M3-1	NORTH				168			
0010			8	21	M3-3	SOUTH				168			
0010			16	21	M1-6	13				336			
0010	REASSURANC	D1	62	21	M4-4	TRUCK				1302			VARIOUS LOCATIONS (TRUCK DETOUR)
0010			62	21	M4-8	DETOUR				1302			
0010			31	21	M3-1	NORTH				651			
0010			31	21	M3-3	SOUTH				651			
0010			62	21	M1-6	13				1302			
0010	TD NOTICE:	TD1	5	21	SPECIAL	WIS 13S CLOSED AT MELLEN TRUCKS FOLLOW DETOUR				105			VARIOUS LOCATIONS
PROJECT 1610-08-74						TOTAL 0010	800	420	462	20335	11	0.45	
PROJECT 1610-08-76													
0010												0.45	PROJECT 1610-08-76
PROJECT 1610-08-76						TOTAL 0010	0	0		0	0	0.45	
PROJECT 1610-11-73													
0010												0.10	PROJECT 1610-11-73
PROJECT 1610-11-73						TOTAL 0010	0	0		0	0	0.10	

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

3

GEOTEXTILE TYPE HR

CATEGORY	STATION	LOCATION	645.0120 SY	REMARKS
PROJECT 1610-08-74				
0010	456+25	CULVERT END	20	30" RCCP
0010	499+65	CULVERT END	20	24" RCCP
0010	507+63	CULVERT END	20	42" RCCP
0010		UNDISTRIBUTED	20	
		TOTAL 0010	80	
1610-08-76				
0010	806+25	CULVERT END	20	30" RCCP
0010	823+68	CULVERT END	20	30" RCCP
0010	835+45	CULVERT END	20	30" RCCP
0010	861+16	CULVERT END	20	36" RCCP
0010	866+00	CULVERT END	20	24" RCCP
0010	899+81	CULVERT END	20	30" RCCP
0010	921+37	CULVERT END	20	36" RCCP
0010		UNDISTRIBUTED	20	
		TOTAL 0010	160	

LOCATING NO-PASSING ZONES

CATEGORY	STATION	TO	STATION	LOCATION	648.0100 MI
PROJECT 1610-08-76					
0010	0+00	-	1028+98	CTH GG	19.50
				TOTAL 0010	19.50

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

PAVEMENT MARKING PAINT 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	646.1005 LF	WHITE EDGELINE	YELLOW CENTERLINE
PROJECT 1610-08-74							
0010	391+82	-	392+72	CULVERT PATCH	270	180	90
0010	411+68	-	412+12	CULVERT PATCH	132	88	44
0010	419+98	-	420+32	CULVERT PATCH	102	68	34
0010	439+27	-	440+21	CULVERT PATCH	282	188	94
0010	455+83	-	456+37	CULVERT PATCH	162	108	54
0010	459+71	-	460+49	CULVERT PATCH	234	156	78
0010	471+87	-	472+81	CULVERT PATCH	282	188	94
0010	477+86	-	478+70	CULVERT PATCH	252	168	84
0010	499+43	-	499+87	CULVERT PATCH	132	88	44
0010	507+39	-	507+85	CULVERT PATCH	138	92	46
0010	527+53	-	528+57	CULVERT PATCH	312	208	104
0010	556+62	-	557+30	CULVERT PATCH	204	136	68
0010	564+43	-	564+73	CULVERT PATCH	90	60	30
0010	588+68	-	589+32	CULVERT PATCH	192	128	64
0010	596+33	-	596+67	CULVERT PATCH	102	68	34
0010	606+45	-	606+75	CULVERT PATCH	90	60	30
0010	615+25	-	615+71	CULVERT PATCH	138	92	46
0010	621+58	-	621+88	CULVERT PATCH	90	60	30
0010	635+91	-	636+49	CULVERT PATCH	174	116	58
				TOTAL 0010	3378		
PROJECT 1610-08-76							
STH 13							
0010	670+57	-	670+91	CULVERT PATCH	102	68	34
0010	676+03	-	676+57	CULVERT PATCH	162	108	54
0010	681+20	-	681+44	CULVERT PATCH	72	48	24
0010	694+46	-	695+00	CULVERT PATCH	162	108	54
0010	711+47	-	711+81	CULVERT PATCH	102	68	34
0010	717+98	-	718+62	CULVERT PATCH	192	128	64
0010	732+48	-	732+92	CULVERT PATCH	132	88	44
0010	756+02	-	756+18	CULVERT PATCH	48	32	16
0010	765+49	-	766+03	CULVERT PATCH	162	108	54
0010	770+64	-	770+92	CULVERT PATCH	84	56	28
0010	785+65	-	786+17	CULVERT PATCH	156	104	52
0010	793+98	-	794+22	CULVERT PATCH	72	48	24
0010	798+78	-	799+02	CULVERT PATCH	72	48	24
0010	805+82	-	806+68	CULVERT PATCH	258	172	86
0010	814+56	-	815+32	CULVERT PATCH	228	152	76
0010	823+11	-	824+25	CULVERT PATCH	342	228	114
0010	831+69	-	832+05	CULVERT PATCH	108	72	36
0010	835+27	-	835+63	CULVERT PATCH	108	72	36
0010	845+66	-	846+14	CULVERT PATCH	144	96	48
0010	858+14	-	858+68	CULVERT PATCH	162	108	54
0010	860+76	-	861+56	CULVERT PATCH	240	160	80
0010	865+76	-	866+24	CULVERT PATCH	144	96	48
0010	885+46	-	886+10	CULVERT PATCH	192	128	64
0010	899+31	-	900+31	CULVERT PATCH	300	200	100
0010	921+20	-	921+54	CULVERT PATCH	102	68	34
CTH GG DETOUR ROUTE							
0010	0+00	-	1028+98	CAR DETOUR	342650	205796	136854
				TOTAL 0010	346496		

3

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (1610-08-74)

CATEGORY	LOCATION	650.9910 LS
PROJECT 1610-08-74		
0010	PROJECT	1
	TOTAL 0010	1

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (1610-08-76)

CATEGORY	LOCATION	650.9910 LS
PROJECT 1610-08-76		
0010	PROJECT	1
	TOTAL 0010	1

CONSTRUCTION STAKING SLOPE STAKES

CATEGORY	STATION	TO	STATION	LOCATION	650.9920 LF
PROJECT 1610-08-74					
0010	409+00	-	414+00	STH 13	500
0010	417+00	-	422+00	STH 13	500
0010	431+00	-	448+00	STH 13	1700
0010	455+23	-	463+00	STH 13	777
0010	468+00	-	483+00	STH 13	1500
0010	497+50	-	511+23	STH 13	1373
0010	524+00	-	533+28	STH 13	928
0010	550+00	-	565+00	STH 13	1500
0010	611+00	-	617+00	STH 13	600
0010	632+00	-	641+50	STH 13	950
				TOTAL 0010	10328
PROJECT 1610-08-76					
0010	667+00	-	679+00	STH 13	1200
0010	693+30	-	698+00	STH 13	470
0010	710+60	-	722+00	STH 13	1140
0010	731+00	-	738+00	STH 13	700
0010	763+00	-	768+00	STH 13	500
0010	784+00	-	791+00	STH 13	700
0010	798+07	-	799+82	STH 13	175
0010	804+00	-	808+10	STH 13	410
0010	811+83	-	826+30	STH 13	1447
0010	830+50	-	837+00	STH 13	650
0010	845+20	-	853+00	STH 13	780
0010	859+50	-	872+00	STH 13	1250
0010	884+00	-	890+00	STH 13	600
0010	895+50	-	902+00	STH 13	650
0010	917+50	-	924+22	STH 13	672
				TOTAL 0010	11344

ADDITIONAL QUANTITIES MAY BE SHOWN ELSEWHERE.

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

3

REMOVALS (CATEGORY 0010)

PROJECT ID	STATION TO STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0130 REMOVING CURB LF	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (18-INCH) LF	NOTES
1610-11-73	Sta. 580+27.30 to Sta. 580+56.13	LT & RT	118	--	--	--	REMOVE PAVEMENT
	Sta. 582+66.47 to Sta. 582+95.30	LT & RT	118	--	--	--	REMOVE PAVEMENT
	Sta. 580+33.55 to Sta. 580+43.55	LT	--	10	--	--	REMOVE CONCRETE CURB
	Sta. 580+33.55 to Sta. 580+43.55	RT	--	10	--	--	REMOVE CONCRETE CURB
	Sta. 580+41.55	LT	--	--	1	--	REMOVE INLET
	Sta. 580+41.55	RT	--	--	1	--	REMOVE INLET
	Sta. 580+41.55	--	--	--	--	34	(CMCP) CROSSING MAINLINE
TOTALS			236	20	2	34	

205.0100 EXCAVATION COMMON (CATEGORY 0010)

PROJECT ID	STATION TO STATION	CY
1610-11-73	Sta. 580+27.30 to Sta. 580+55.55	40
	Sta. 582+67.05 to Sta. 582+95.30	40
TOTAL		80

213.0100 FINISHING ROADWAY (CATEGORY 0010)

LOCATION		EACH
PROJECT ID	1610-11-73	1

305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (CATEGORY 0010)

PROJECT ID	STATION TO STATION	LOCATION	TON
1610-11-73	Sta. 580+27.30 to Sta. 580+55.55	LT & RT	35
	Sta. 582+67.05 to Sta. 582+95.30	LT & RT	30
TOTAL			65

3

415.0120 CONCRETE PAVEMENT 12-INCH (CATEGORY 0010)

PROJECT ID	STATION TO STATION	LOCATION	SY
1610-11-73	Sta. 582+66.47 to Sta. 582+82.05	LT	11
	Sta. 582+66.47 to Sta. 582+82.05	RT	11
TOTAL			22

415.0410 CONCRETE PAVEMENT APPROACH SLAB (CATEGORY 0010)

PROJECT ID	STATION TO STATION	LOCATION	SY
1610-11-73	Sta. 580+40.55 to Sta. 580+56.13	-	42
	Sta. 582+66.47 to Sta. 582+82.05	-	42
TOTAL			84

416.0610 DRILLED TIE BARS (CATEGORY 0010)

PROJECT ID	STATION TO STATION	LOCATION	EACH
1610-11-73	Sta. 580+40.55 to Sta. 580+56.13	LT	5
	Sta. 580+40.55 to Sta. 580+56.13	RT	5
	Sta. 582+66.47 to Sta. 582+82.05	LT	5
	Sta. 582+66.47 to Sta. 582+82.05	RT	5
TOTAL			20

416.1010 CONCRETE SURFACE DRAINS (CATEGORY 0010)

PROJECT ID	STATION TO STATION	LOCATION	CY
1610-11-73	Sta. 580+33.55 to Sta. 580+56.13	LT	4
	Sta. 580+33.55 to Sta. 580+56.13	RT	4
TOTAL			8

455.0605 TACK COAT (CATEGORY 0010)

PROJECT ID	STATION TO STATION	LOCATION	GAL
1610-11-73	Sta. 580+15.55 to Sta. 580+40.55	-	7
	Sta. 582+82.05 to Sta. 583+07.05	-	7
TOTAL			14

ASPHALTIC SURFACE (CATEGORY 0010)

PROJECT ID	STATION TO STATION	LOCATION	465.0105 TON
1610-11-73	Sta. 580+15.55 to Sta. 580+40.55	-	15
	Sta. 582+82.05 to Sta. 583+07.05	-	15
TOTALS			30

3

520.8000 CONCRETE COLLARS FOR PIPE (CATEGORY 0010)

PROJECT ID	STATION	LOCATION	EACH
1610-11-73	Sta. 580+41.55	---	1
TOTAL			1

STORM SEWER PIPE REINFORCED CONCRETE (CATEGORY 0010)

PROJECT ID	STATION	FROM	-	TO	608.0318 CLASS III 18-INCH LF	SLOPE FT/FT
1610-11-73	Sta. 580+41.55	INLET 1	-	INLET 2	34	0.0147
TOTAL					34	

611.3220 INLETS 2X2-FT (CATEGORY 0010)

PROJECT ID	STRUCTURE	STATION	LOCATION	EACH
1610-11-73	INLET 1	Sta. 580+41.55	RT	1
	INLET 2	Sta. 580+41.55	LT	1
TOTAL				2

611.9710 SALVAGED INLET COVERS (CATEGORY 0010)

PROJECT ID	STRUCTURE	STATION	LOCATION	EACH
1610-11-73	INLET 1	Sta. 580+41.55	RT	1
	INLET 2	Sta. 580+41.55	LT	1
TOTAL				2

624.0100 WATER (CATEGORY 0010)

PROJECT ID	STATION TO STATION	PURPOSE	MGAL
1610-11-73	Sta. 580+27.30 to Sta. 582+95.30	COMPACTION	1

628.7010 INLET PROTECTION TYPE B (CATEGORY 0010)

PROJECT ID	STRUCTURE	STATION	LOCATION	EACH
1610-11-73	INLET 1	Sta. 580+41.55	RT	1
	INLET 2	Sta. 580+41.55	LT	1
TOTAL				2

SILT FENCE & SILT FENCE MAINTENANCE (CATEGORY 0010)

PROJECT ID	STATION TO STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF
1610-11-73	Sta. 580+15.55 to Sta. 580+60	RT	55	110
	Sta. 580+15.55 to Sta. 580+60	LT	55	110
	Sta. 582+63 to Sta. 583+07.05	RT	55	110
	Sta. 582+63 to Sta. 583+07.05	LT	55	110
	Undistributed	-	55	110
TOTALS			275	550

3

MOBILIZATIONS EROSION CONTROL & EMERGENCY EROSION CONTROL (CATEGORY 0010)

LOCATION		628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT ID	1610-11-73	2	2

CONSTRUCTION STAKING

PROJECT ID	CATEGORY	LOCATION	650.6500 STRUCTURE LAYOUT LS	650.9910 SUPPLEMENTARY CONTROL LS
1610-11-73	0020	B-2-25	1	---
	0010	STH 13 & 77	---	1
TOTALS			1	1

690.0150 SAWING ASPHALT (CATEGORY 0010)

PROJECT ID	STATION	LOCATION	LF
1610-11-73	Sta. 580+15.55	-	37.5
	Sta. 583+07.05	-	37.5
TOTAL			75

3

CONCRETE BARRIER TEMPORARY PRECAST ITEMS (CATEGORY 0010)

PROJECT ID		603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	COMMENT
1610-11-73	NORTHBOUND CLOSURE	610	610	ANCHOR CONCRETE BARRIER PER DETAIL
	SOUTHBOUND CLOSURE	---	610	ANCHOR CONCRETE BARRIER PER DETAIL
TOTAL		**610**	**1220**	

FIELD OFFICE (CATEGORY 0010)

PROJECT NO.	642.5201 (TYPE C) EA
1610-11-73	0.10

TRAFFIC CONTROL ITEMS (CATEGORY 0010)

PROJECT NO.	STAGE 3	DURATION DAYS	643.0300 DRUMS NO.	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III NO.	643.0420 BARRICADES TYPE III DAYS	643.0715 WARNING LIGHTS TYPE C NO.	643.0715 WARNING LIGHTS TYPE C DAYS	643.0900 SIGNS NO.	643.0900 SIGNS DAYS	643.0910 COVERING SIGNS TYPE I EACH	643.0910 COVERING SIGNS TYPE I CYCLES
1610-11-73	NORTHBOUND CLOSURE	18	20	360	1	18	20	360	24	432	4	1
	SOUTHBOUND CLOSURE	18	20	360	1	18	20	360	24	432	4	1
TOTAL				**720**		**36**		**720**		**864**	**8**	

3

TEMPORARY MARKING (CATEGORY 0010)

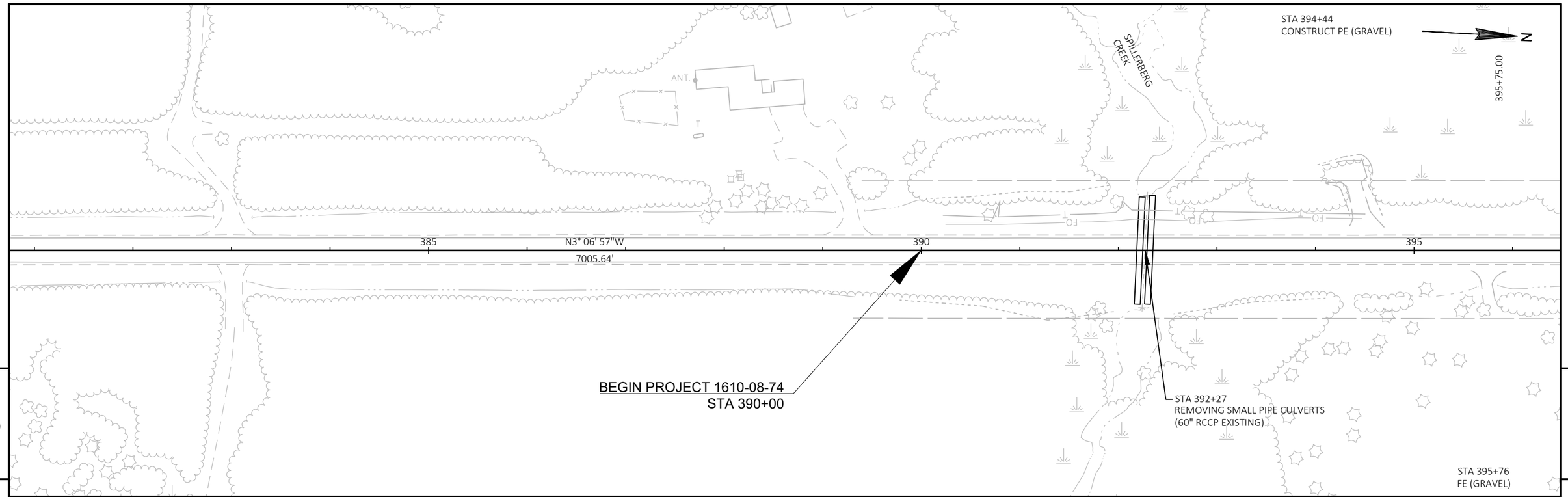
PROJECT ID	STAGE 3	646.9000 MARKING REMOVAL LINE 4-INCH LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (DOUBLE YELLOW) LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE) LF
1610-11-73	NORTHBOUND CLOSURE	335	1425	1400	24
	SOUTHBOUND CLOSURE	--	1425	--	--
SUBTOTAL		335	2850	1400	24
TOTAL		**335**	**4250**		**24**

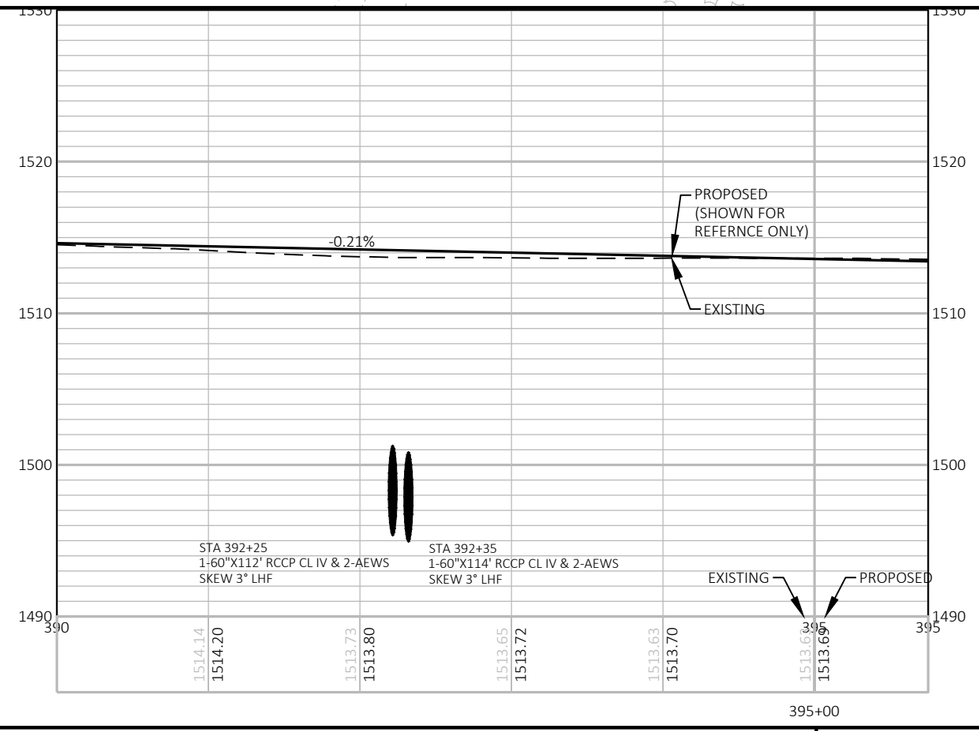
PAVEMENT MARKING (CATEGORY 0010)

PROJECT ID	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF
1610-11-73	1000	300
TOTAL	**1300**	

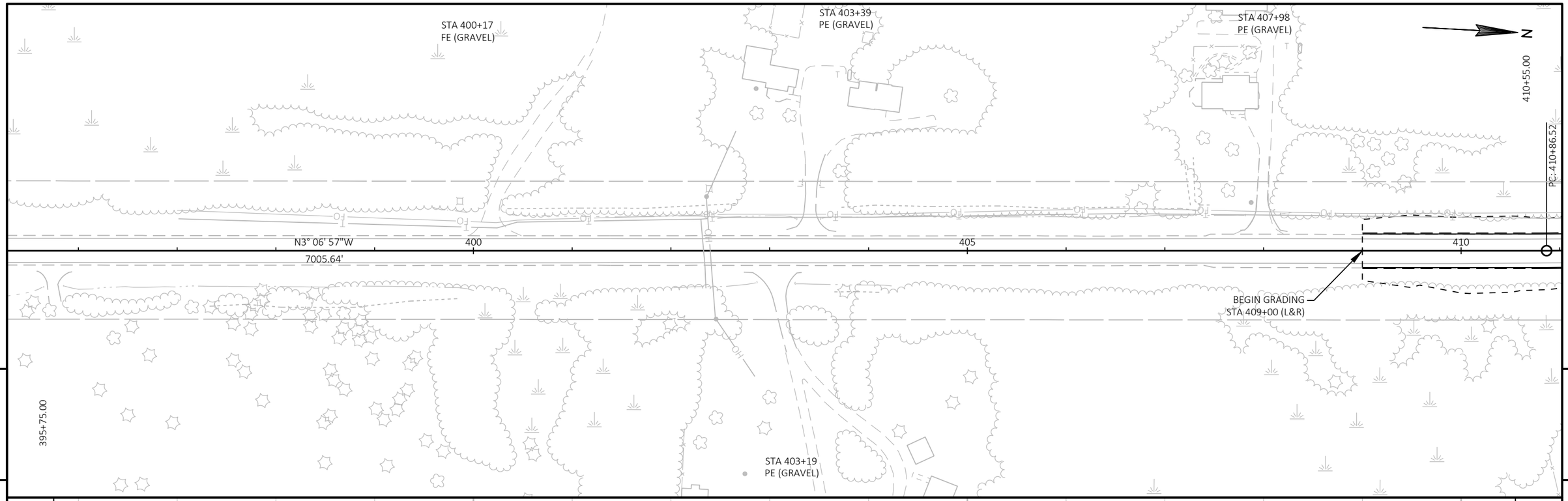
TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (CATEGORY 0010)

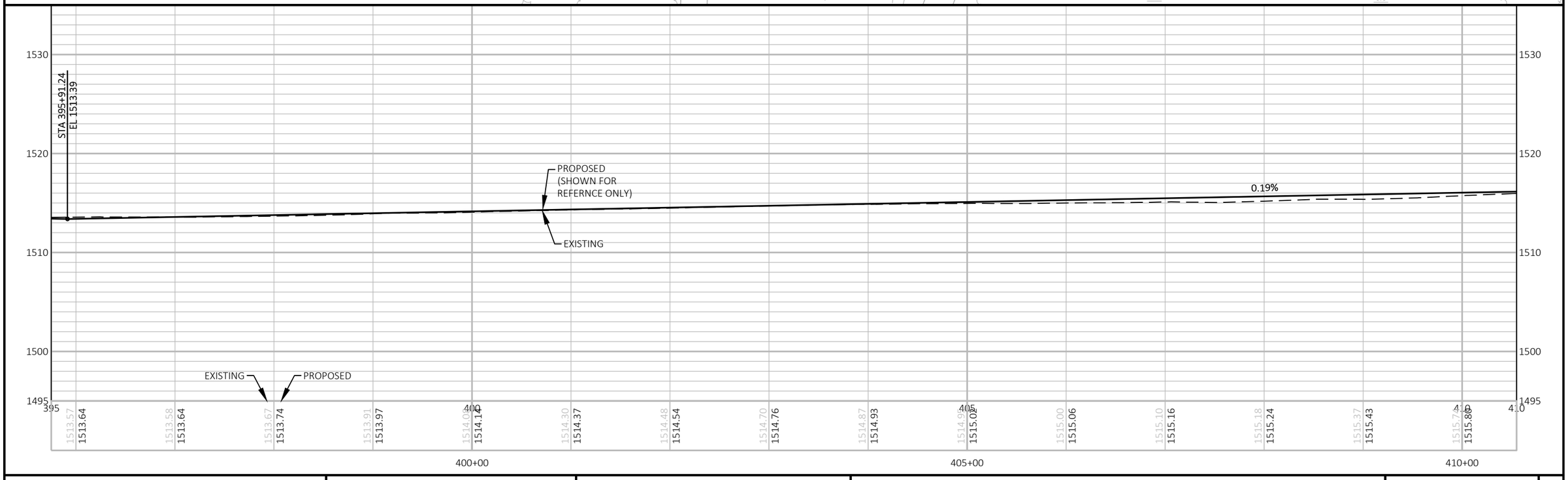
STRUCTURE NO.	PROJECT NO.	661.0100.01 LS
B-2-25	1610-11-73	1





PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 106	E





PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 107	E

SCHOCH RD (PAVED)
STH 13 STA 415+60

STA 423+53
PE (GRAVEL)

PC: 410+86.52

410

STH 13

SCHOCH RD

425

415

420

END GRADING
STA 414+00 (L&R)

BEGIN GRADING
STA 417+00 (L)

END GRADING
STA 414+00 (L)

STA 420+11
REMOVING SMALL PIPE CULVERTS
(24" RCCP EXISTING)

PI STA = 421+13.09
Y = 181628.222
X = 565972.920
DELTA = 48°15'28"
D = 2°30'00"
T = 1026.57'
L = 1930.31'
R = 2291.83'
PC STA = 410+86.52
PT STA = 430+16.83
S.E. = 4.60%

STA 411+53
REMOVING SMALL PIPE CULVERTS
(24" RCCP EXISTING)

MORSE CUT OFF ROAD (PAVED)
STH 13 STA 415+50

MORSE CUT OFF ROAD

5

5

VPC STA 420+10.67
VPC EL 1517.96

VPI STA 424+03.90
VPI EL 1518.71

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

0.19%

EXISTING

STA 420+11
1-24"X77' RCCP CL IV & 2-AEWS
SKEW 7° RHF

VCL = 786.45

K = 2165.67

STA 411+53
1-30"X89' RCCP CL IV & 2-AEWS
SKEW 3° RHF

EXISTING

PROPOSED

1530
1520
1510
1500
1495

410
415
420
425

1516.12 1516.18 1516.32 1516.39 1516.52 1516.58 1516.60 1516.67 1516.96 1517.05 1517.28 1517.34 1517.44 1517.50 1517.68 1517.75 1517.85 1517.91 1518.08 1518.21 1518.27 1518.24 1518.30 1518.22 1518.28 1518.10 1518.16 1518.25 1518.26

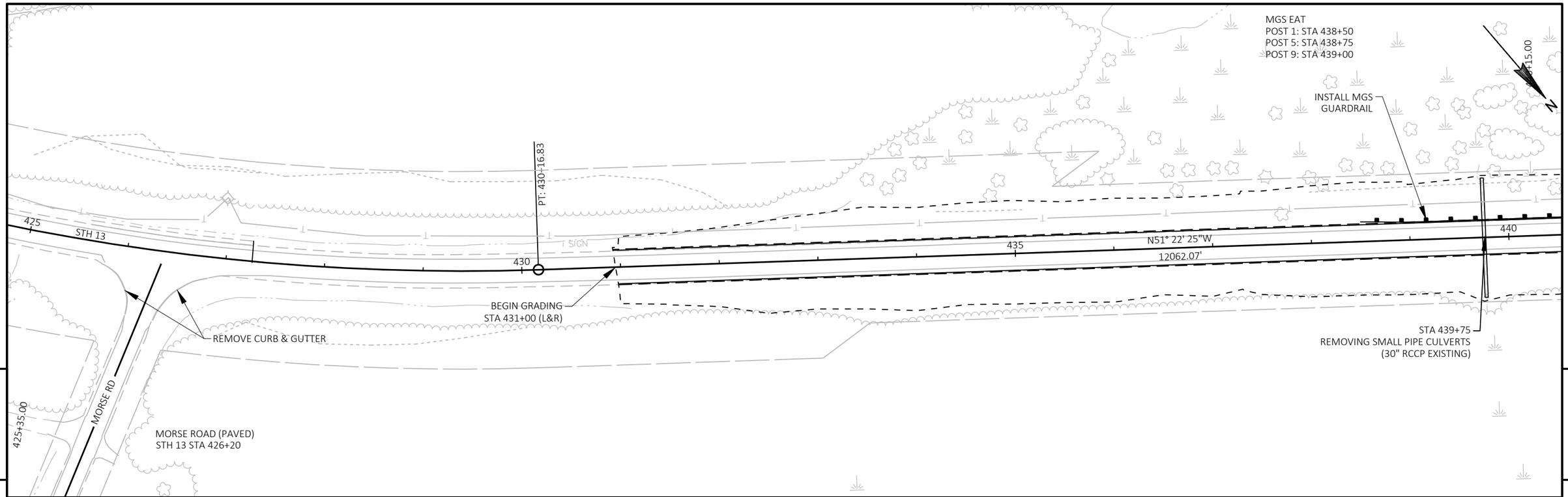
415+00 420+00 425+00

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 108	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_P&P.DWG
LAYOUT NAME - P&P-3

PLOT DATE : 7/15/2019 12:39 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 44



5

5

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 109	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_P&P.DWG
LAYOUT NAME - P&P-4

PLOT DATE : 7/15/2019 12:39 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

MGS EAT:
POST 9: STA 445+50
POST 5: STA 445+75
POST 1: STA 446+00

SCHOCH ROAD (GRAVEL)
STH 13 STA 453+50

SCHOCH RD

440+95.00

N

INSTALL MGS GUARDRAIL

440 445 450 455

N51° 22' 25"W
12062.07'

END GRADING
STA 448+00 (L&R)

5

440+15.00

5

VCL = 203.10
K = 305.77

VPC STA 449+
VPC EL 15

VPI STA 451+
VPI EL 15

VPT STA 454+
VPT EL 15

-0.18%

1.26%

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

0.59%

EXISTING

VCL = 518.98
K = 362.14

VPC STA 444+28.29
VPC EL 1519.96

VPI STA 445+29.84
VPI EL 1520.56

VPT STA 446+31.39
VPT EL 1521.84

EXISTING PROPOSED

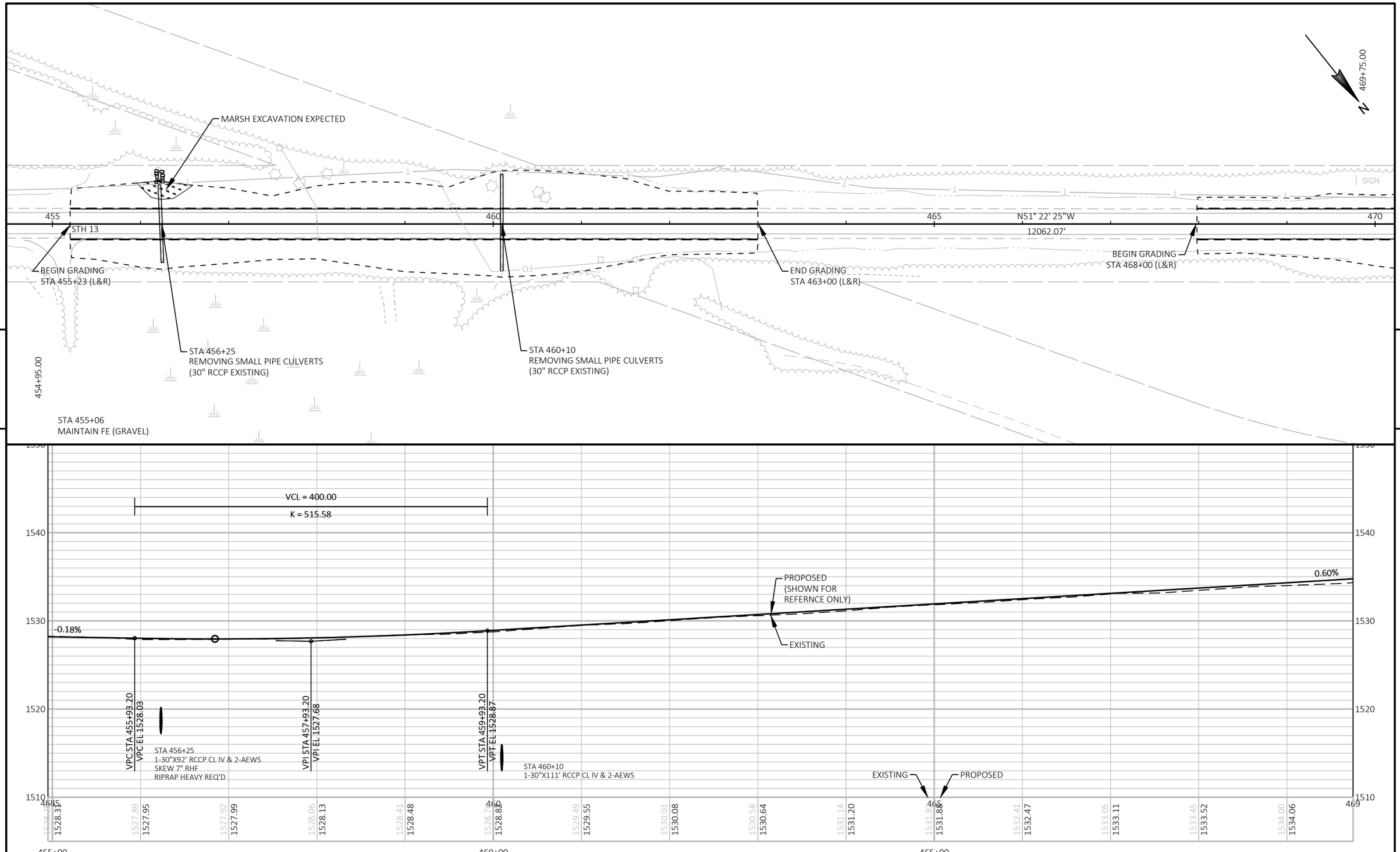
1540 1530 1520 1510 1500

440 454

1518.08 1518.14 1518.63 1518.69 1519.13 1519.19 1519.71 1519.78 1520.44 1520.56 1521.36 1521.43 1522.61 1522.68 1523.90 1523.96 1525.18 1525.24 1526.25 1526.32 1527.03 1527.10 1527.79 1527.86 1528.07 1528.13 1528.35 1528.41

445+00 450+00

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 110	E



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 111	E

MGS EAT:
POST 1: STA 470+50
POST 5: STA 470+75
POST 9: STA 471+00

MGS EAT:
POST 9: STA479+50
POST 5: STA 479+75
POST 1: STA 480+00

LINDEN ROAD (GRAVEL)
STH 13 STA 483+25

484+55.00

N

INSTALL MGS GUARDRAIL

LINDEN RD

SIGN

HEIGHT MOD

470 475 480 485

STH 13

N51° 22' 25"W
12062.07'

SIGN

END GRADING
STA 481+26 (R)

END GRADING
STA 483+00 (L)

STA 478+32
REMOVING SMALL PIPE CULVERTS
(30" RCCP EXISTING)

STA 472+36
REMOVING SMALL PIPE CULVERTS
(30" RCCP EXISTING)

STA 481+50
MAINTAIN FE (GRAVEL)

5

5

VPC STA 478+98.0
VPC EL 1540.29

VPI STA 482+12.8
VPI EL 1542.17

1550
1540
1530
1520
1515

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

0.60%

EXISTING

STA 472+36
1-30"X122' RCCP CL IV &
2-AEWS
SKEW 7° RHF

STA 478+32
1-30"X117' RCCP CL IV & 2-AEWS
SKEW 7° RHF

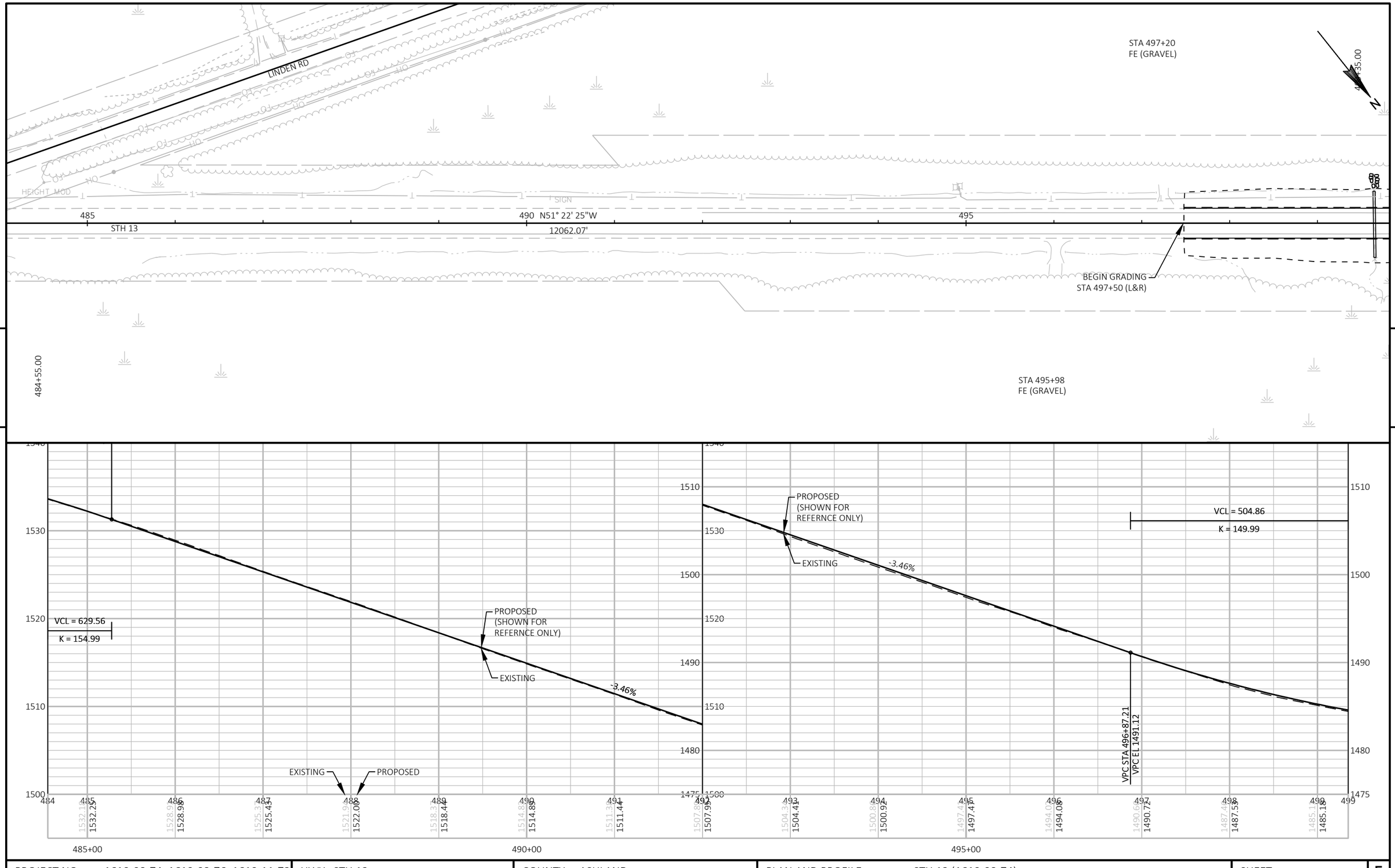
VCL = 629.56

K = 154.99

EXISTING PROPOSED

469 470 484

| | | |



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 113	E

STA 513+27
FE (GRAVEL)

514+00

N

500

505

510

STH 13

N51° 22' 25"W
12062.07'

END GRADING
STA 511+23 (L&R)

499+35.00

STA 499+65
REMOVING SMALL PIPE CULVERTS
(24" RCCP EXISTING)

STA 507+63
REMOVING SMALL PIPE CULVERTS
(24" RCCP EXISTING)

STA 511+36
FE (GRAVEL)

5

5

VCL = 504.86

K = 149.99

1500

1490

1480

1470

1460

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

-0.10%

VPI STA 499+39.64
VPI EL 1482.38

STA 499+65
1-24"X81' RCCP CL IV & 2-AEWS
SKEW 7° RHF
HEAVY RIPRAP REQ'D

VPT STA 501+92.08
VPT EL 1482.13

STA 507+63
1-42"X71' RCCP CL IV & 2-AEWS
SKEW 7° RHF
HEAVY RIPRAP REQ'D

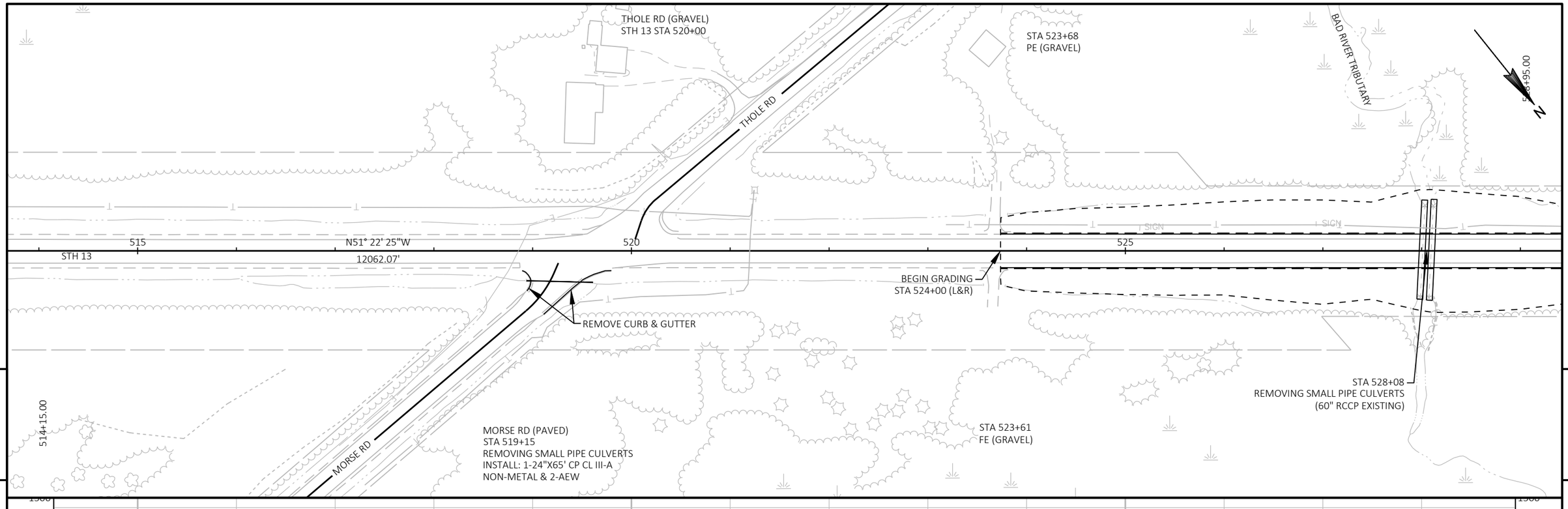
EXISTING
PROPOSED

499 500 505 510 514

1483.58 1482.66 1482.14 1481.97 1481.89 1481.85 1481.74 1481.60 1481.56 1481.44 1481.39 1481.34 1481.21 1481.15 1481.05

500+00 505+00 510+00

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 114	E

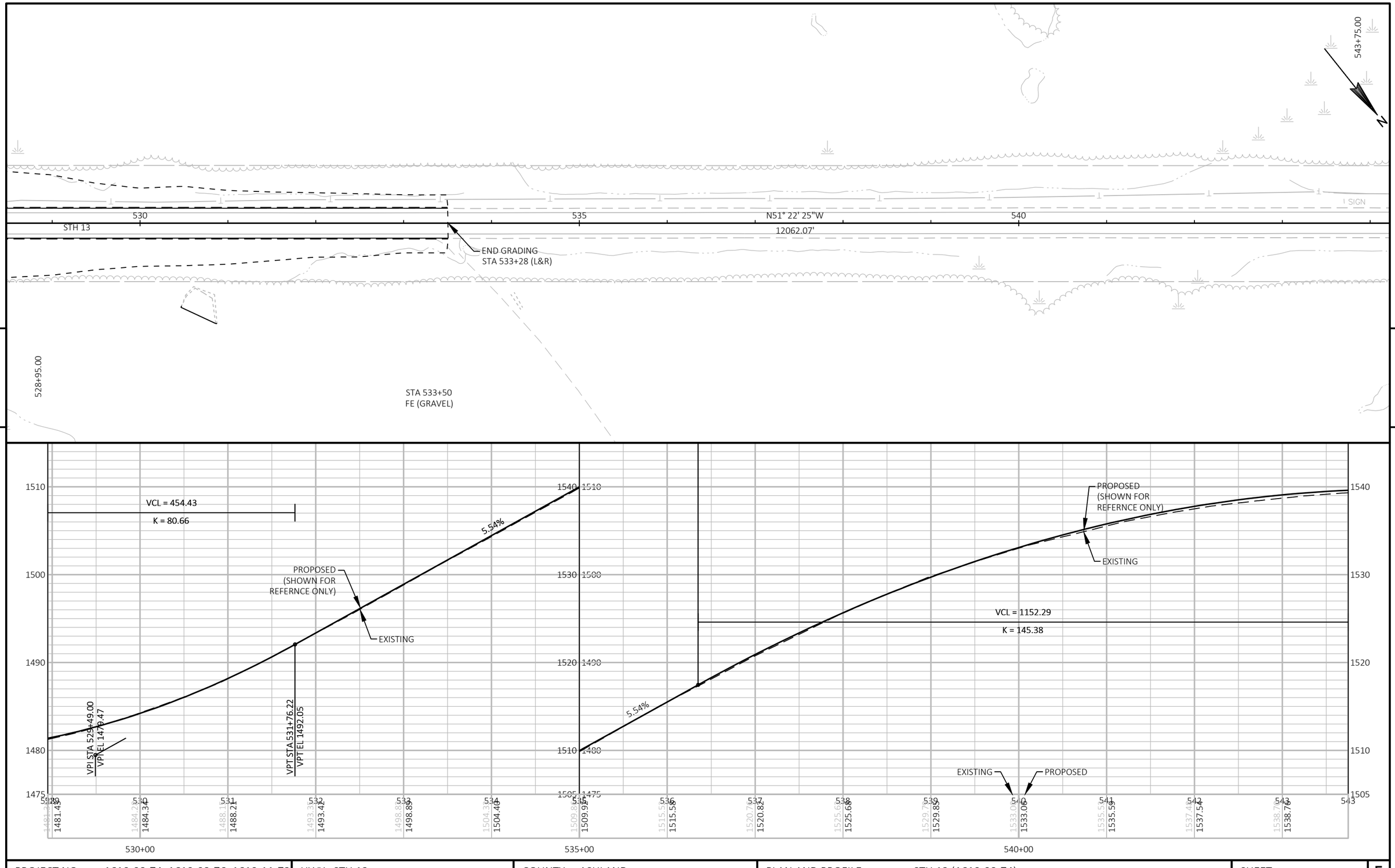


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 115	E

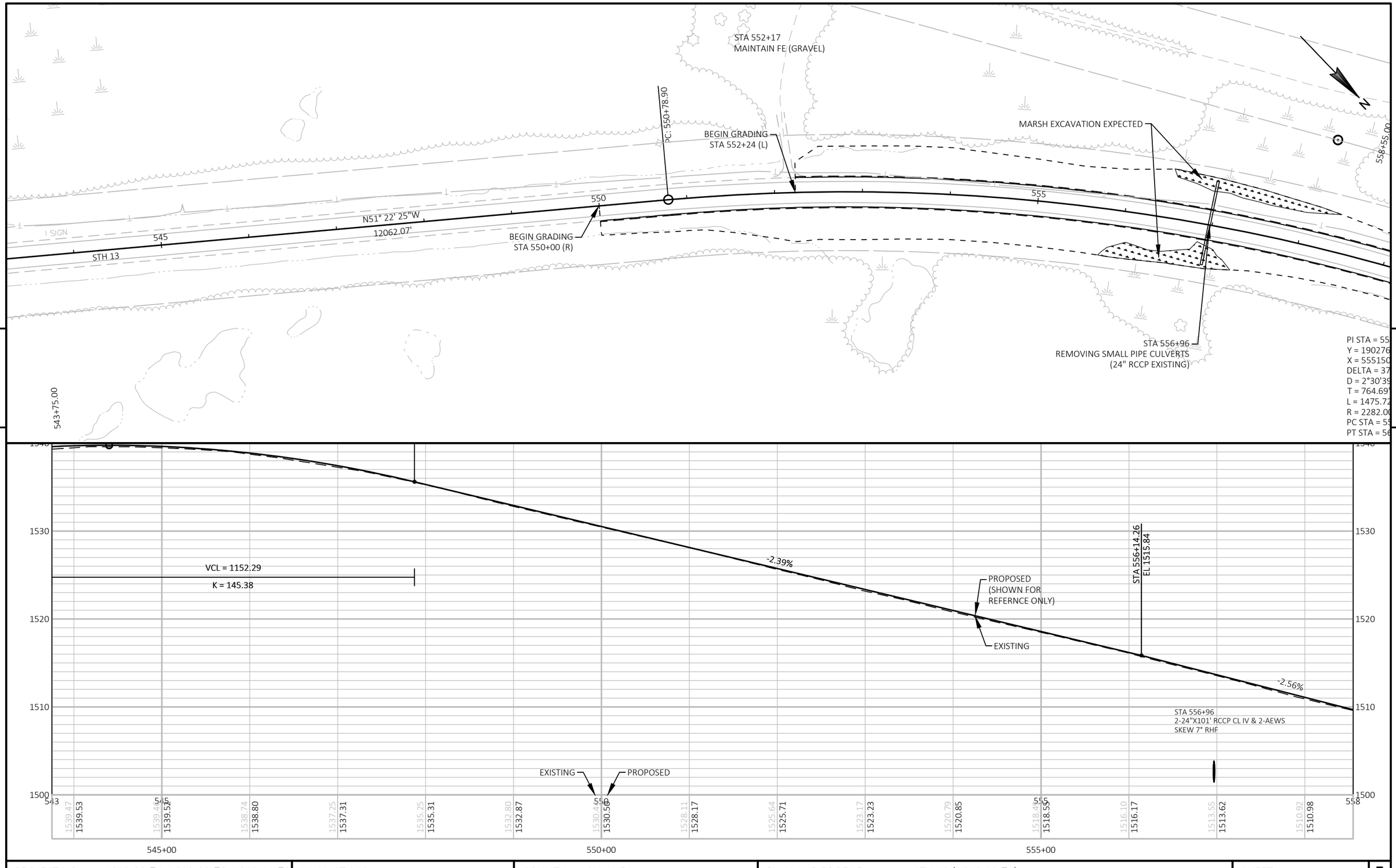
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_P&P.DWG
LAYOUT NAME - P&P-10

PLOT DATE : 7/15/2019 12:41 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 44



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 116	E

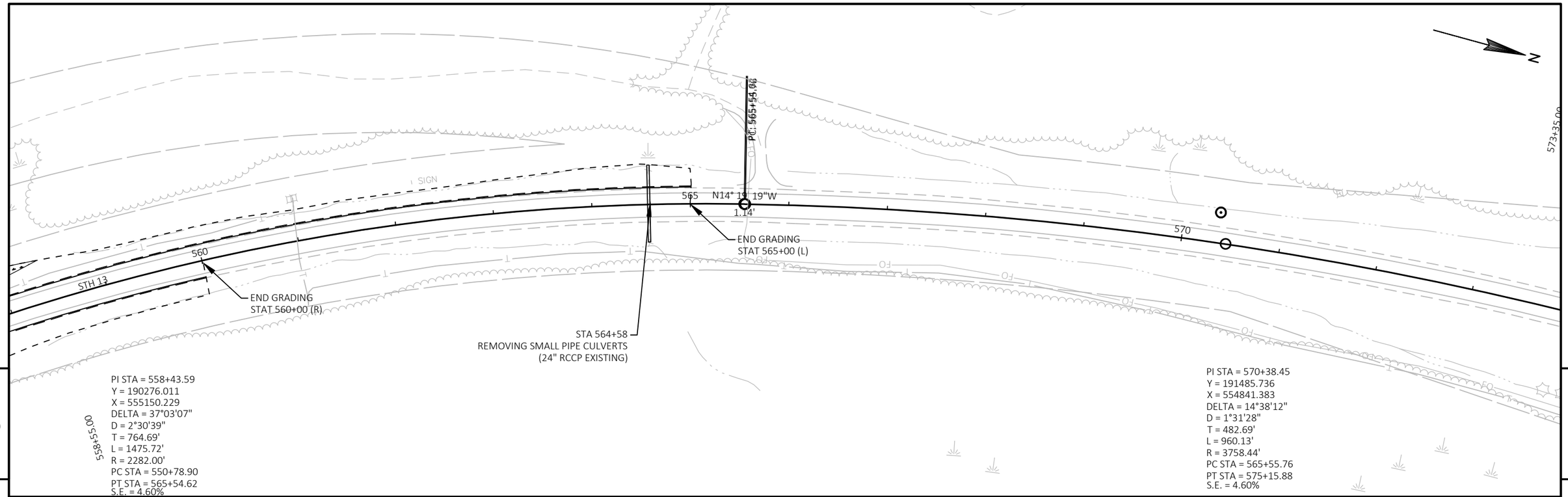


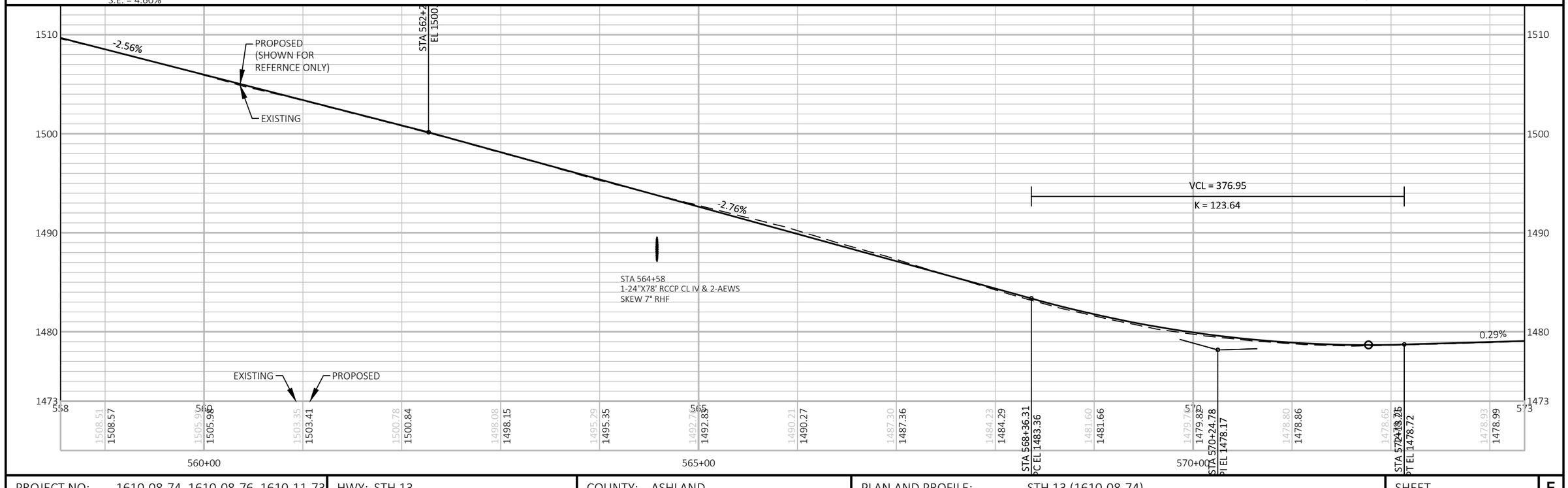
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FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_P&P.DWG
LAYOUT NAME - P&P-12

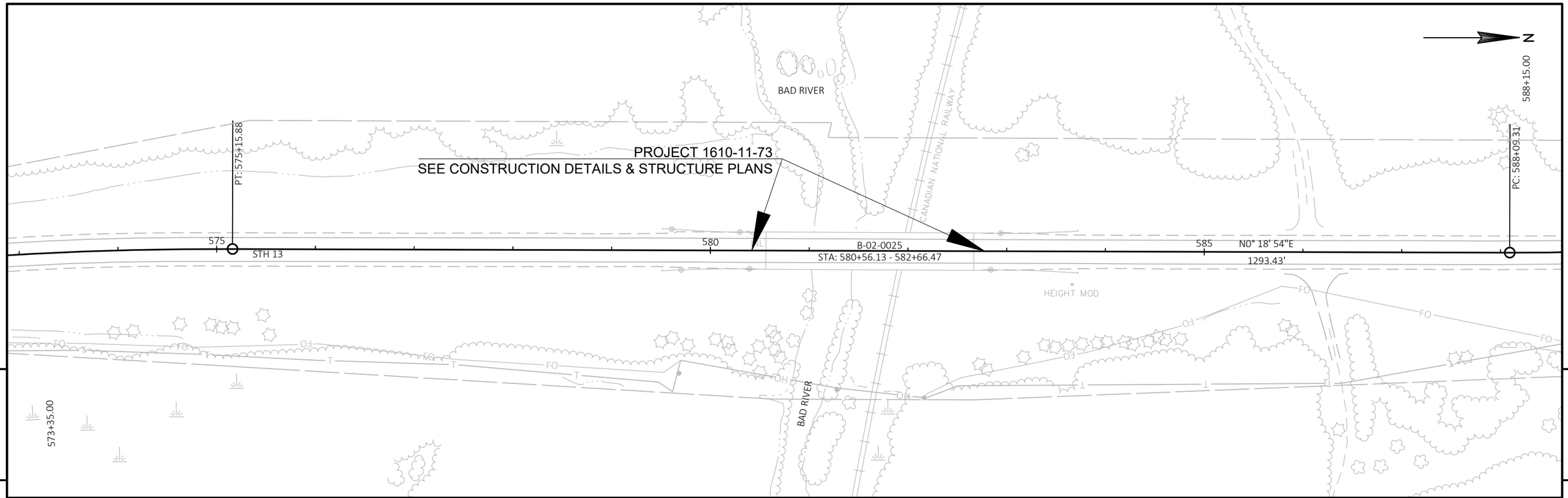
PLOT DATE : 7/15/2019 12:42 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

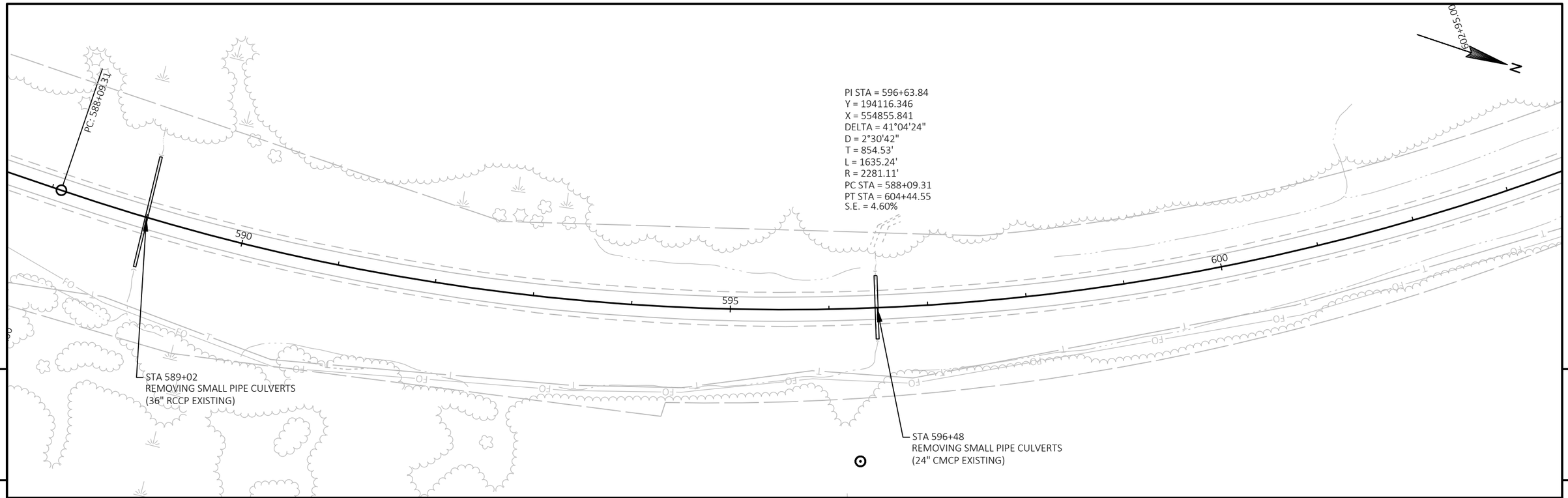


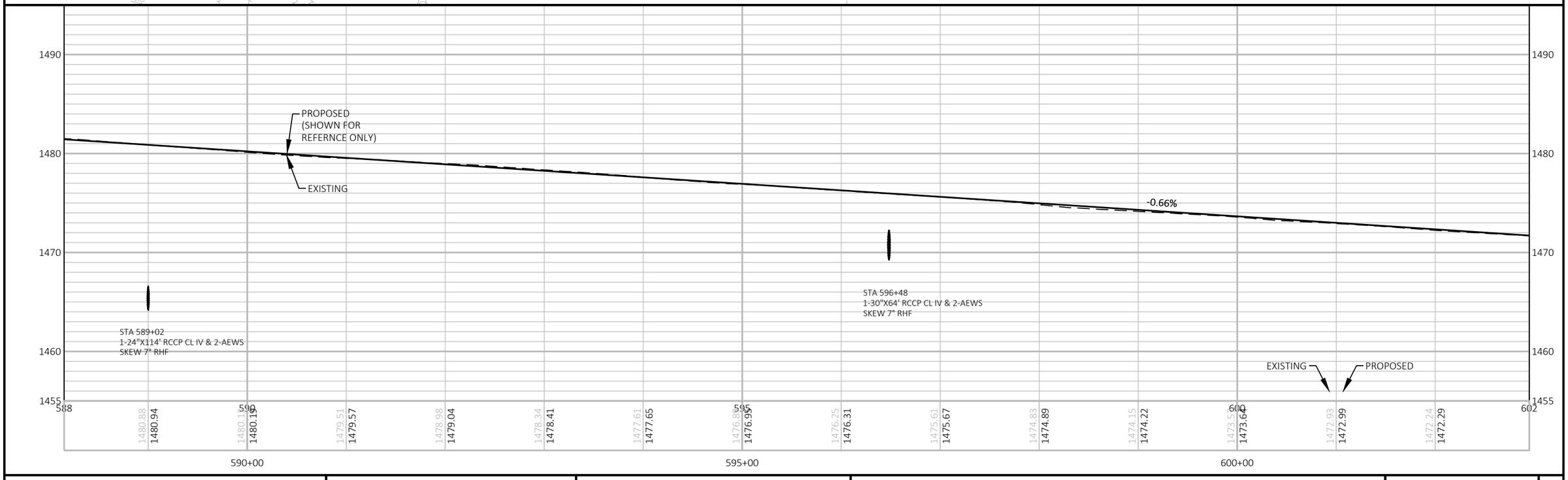


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 118 E



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 119	E

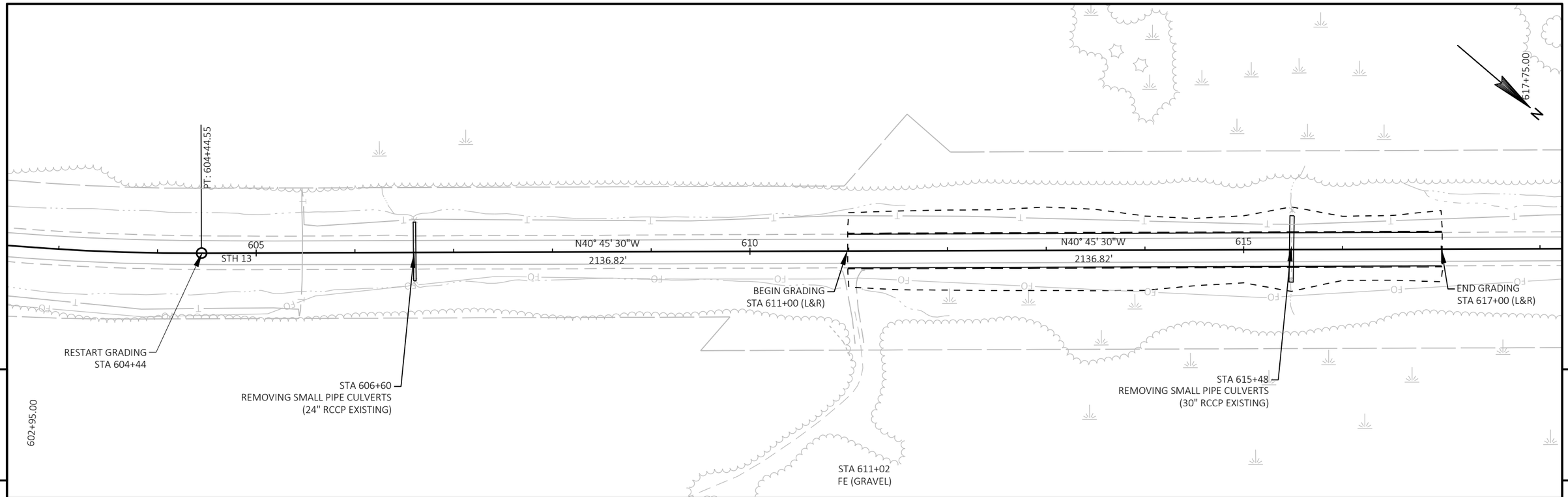


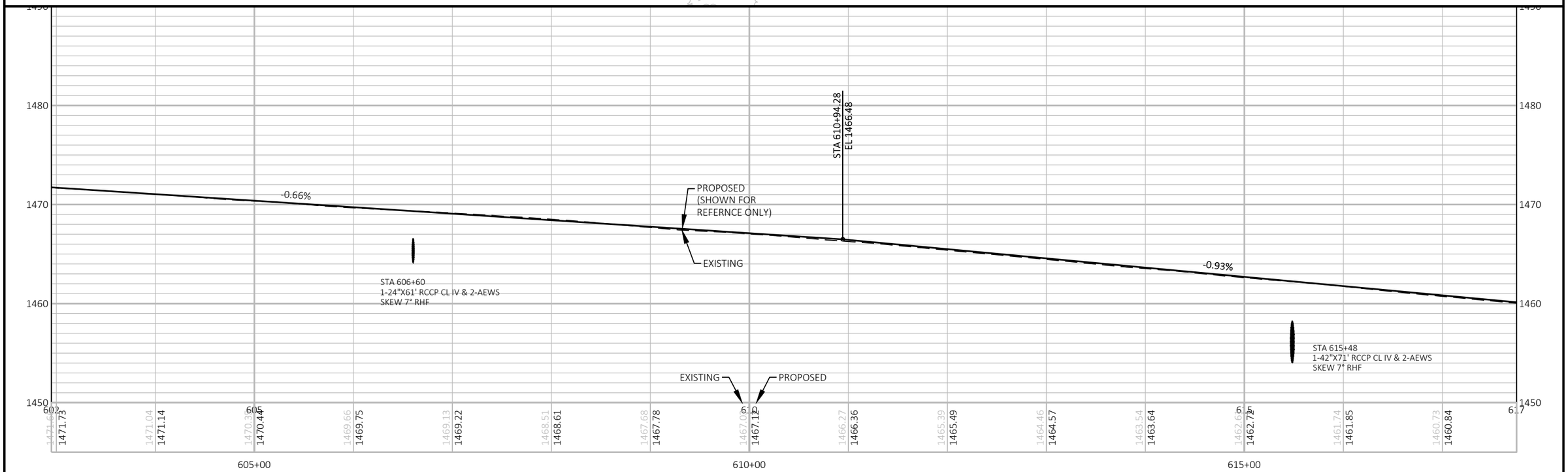


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 120	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_P&P.DWG
LAYOUT NAME - P&P-15

PLOT DATE : 7/15/2019 12:43 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ############





PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 121	E

STA 620+05
PE (GRAVEL)

STA 626+80
FE (GRAVEL)

CAYUGA RD (GRAVEL)
STH 13 STA 628+00

CAYUGA RD

PC: 625+81.38

620

STH 13

N40° 45' 30"W
2136.82'

625

630

STA 621+72
REMOVING SMALL PIPE CULVERTS
(24" RCCP EXISTING)

NOTICE TO CONTRACTOR:
HAZMAT BEYOND CONSTRUCTION LIMITS

BEGIN GRADING
STA 632+00 (R)

617+75.00

STA624+50
FE (GRAVEL)

CAYUGA RD

E CAYUGA RD (GRAVEL)
STH 13 STA 627+50

PI ST
Y = 1
X = 5

5

5

1480

1470

1460

1450

1440

VCL = 201.24
K = 293.90

VCL = 456.39
K = 784.87

VCL = 191.00
K = 273.98

-0.93%

-0.25%

0.13%

-0.57%

STA 623+92.68
EL 1457.40

VPC STA 624+98.26
VPC EL 1457.54

VPI STA 625+93.76
VPI EL 1457.66

VPT STA 626+89.26
VPT EL 1457.11

VPC STA 618+50.88
VPC EL 1459.43

VPI STA 619+51.50
VPI EL 1458.49

VPT STA 620+52.12
VPT EL 1458.25

STA 621+72
1-30"X64' RCCP CL IV & 2-AEWS
SKEW 7° RHF

VPC STA 628+01.17
VPC EL 1456.48

VPI STA 630+29.37
VPI EL 1455.18

VPT STA 632+57.56
VPT EL 1455.20

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

EXISTING

PROPOSED

617

620

625

630

632

1459.95 1460.02
1458.85 1458.95
1458.39 1458.39
1458.07 1458.14
1457.88 1457.95
1457.63 1457.71
1457.35 1457.41
1457.54 1457.59
1457.48 1457.56
1457.02 1457.11
1456.43 1456.51
1455.96 1456.05
1455.54 1455.67
1455.23 1455.30
1455.17 1455.23

620+00

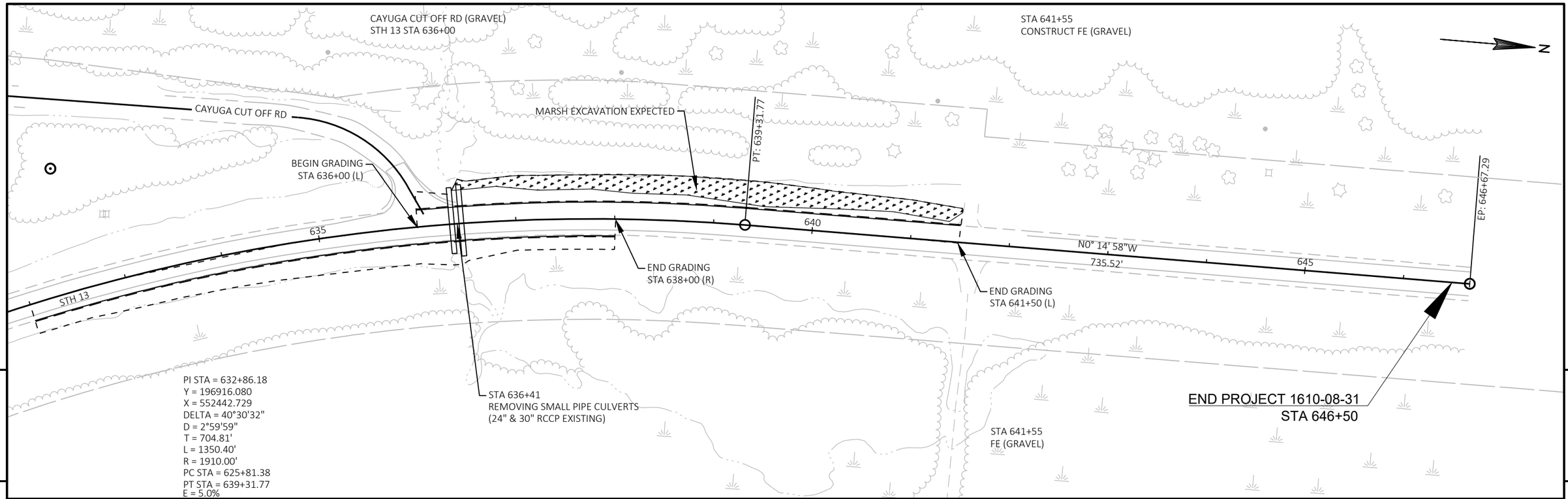
625+00

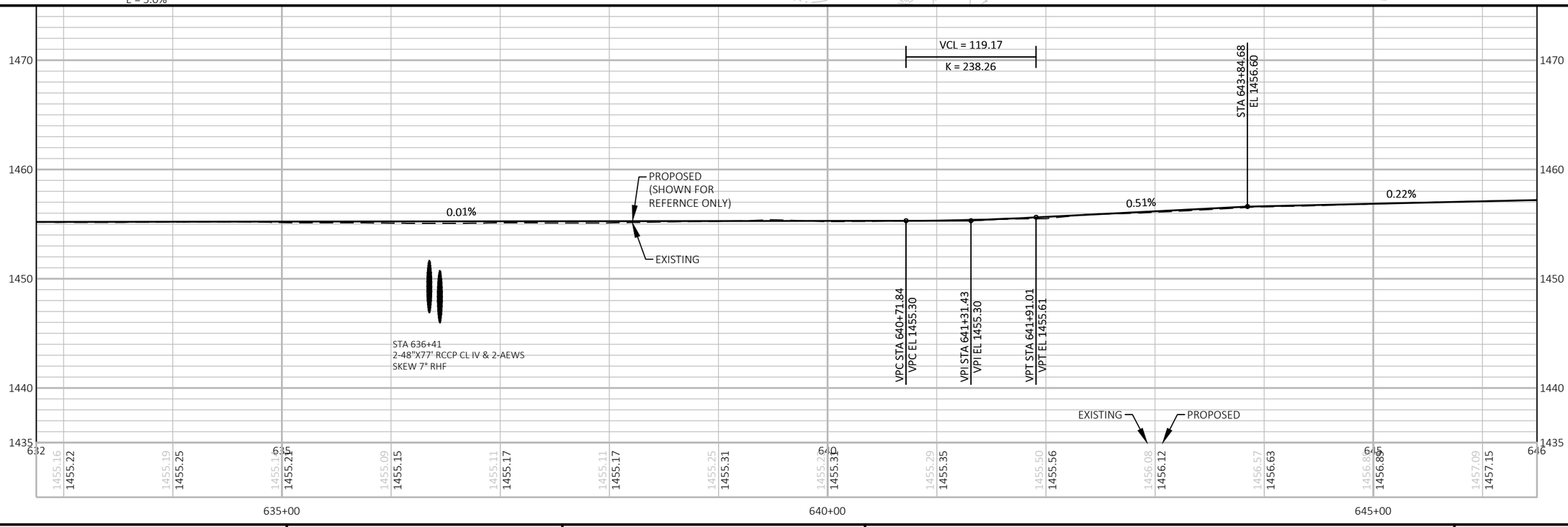
630+00

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 122	E

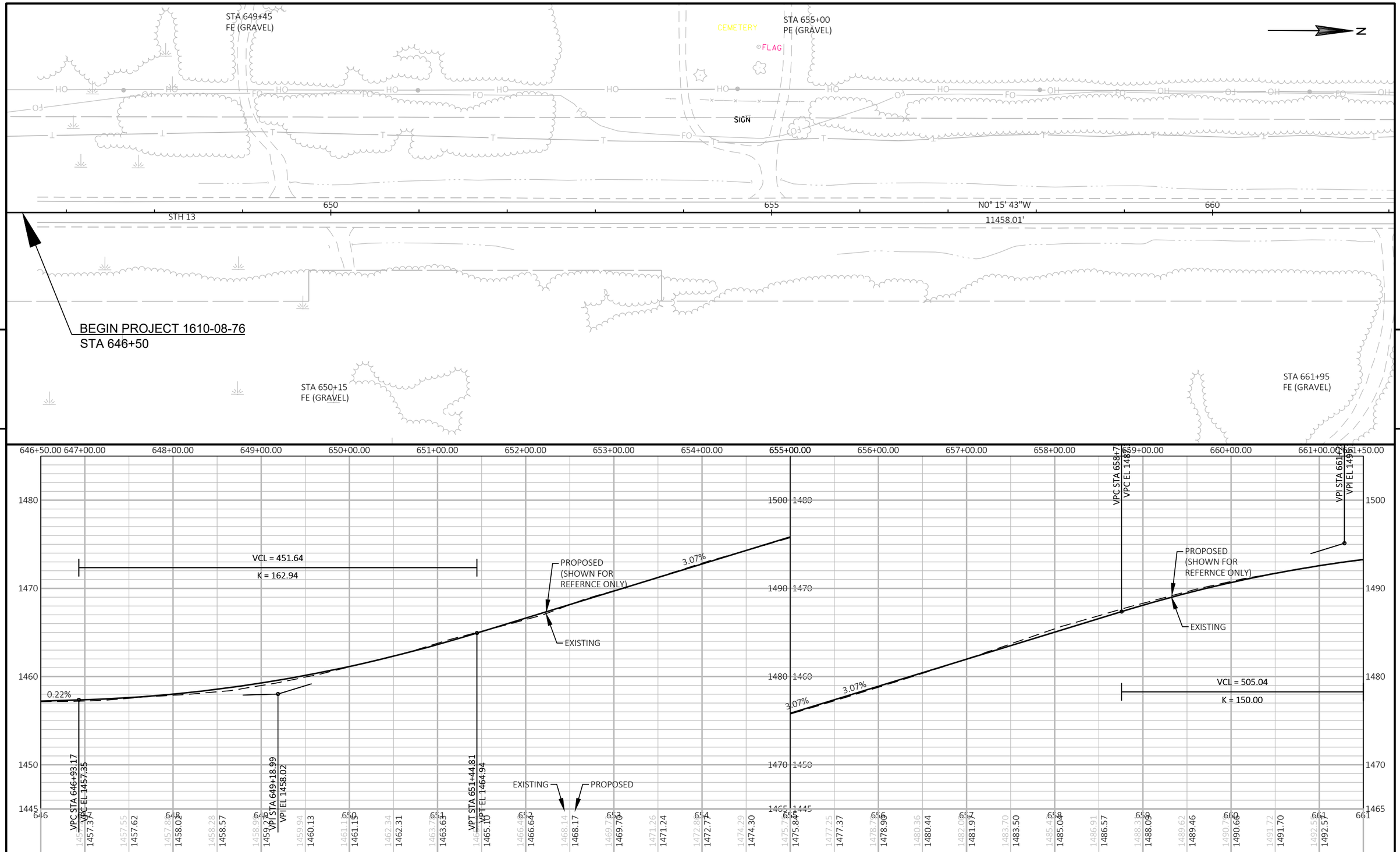
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_P&P.DWG
LAYOUT NAME - P&P-17

PLOT DATE : 7/15/2019 12:43 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########





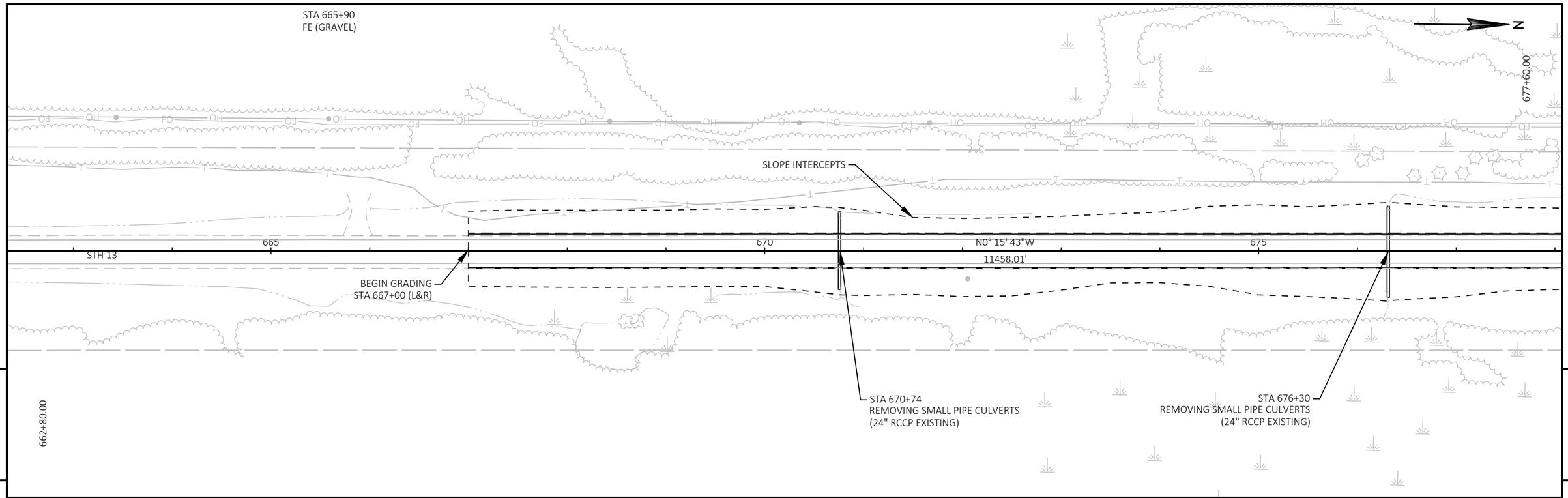
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-74)	SHEET 123	E

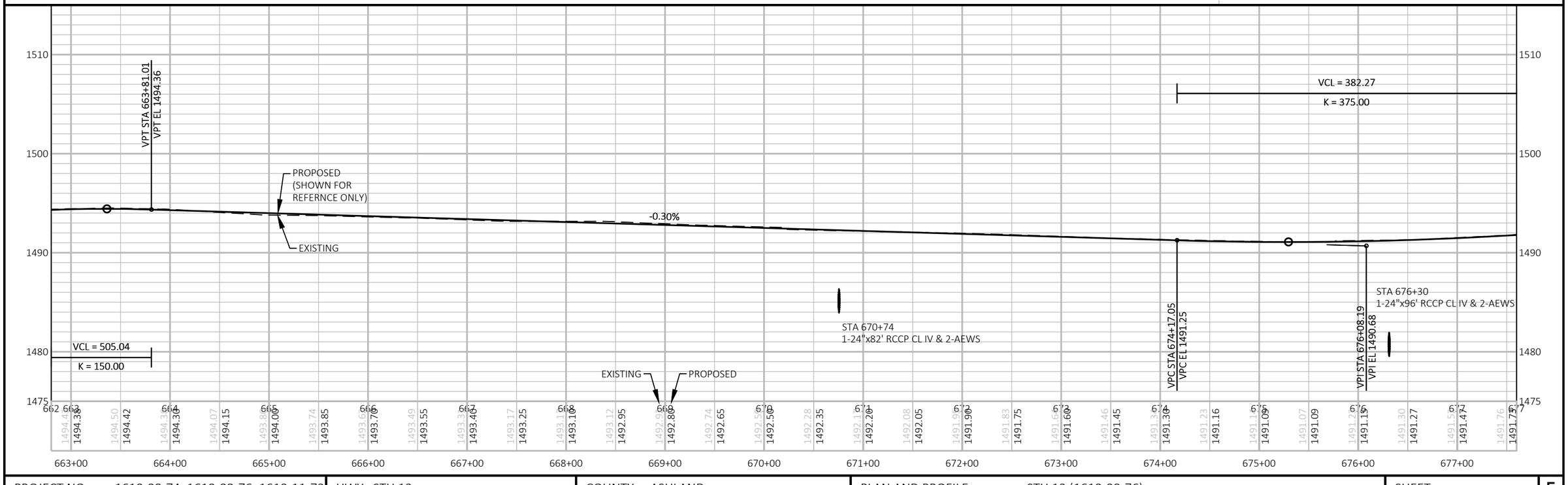


5

5

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 124	E





PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 125	E

STA 686+35
FE (GRAVEL)

N

692+40.00

SLOPE INTERCEPTS

680

N0° 15' 43"W

685

690

STH 13

11458.01'

END GRADING
STA 679+00 (L&R)

STA 681+32
REMOVING SMALL PIPE CULVERTS
(24" RCCP EXISTING)

677+60.00

STA 685+00
FE (GRAVEL)

STA 691+20
PE (GRAVEL)

5

5

VPC STA 689+71
VPC EL 1500.48

1510

VCL = 382.27

K = 375.00

1500

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

0.72%

EXISTING

1490

VCL = 1082.56

K = 340.00

VPT STA 677+99.33
VPT EL 1492.05

STA 681+32
1-24"x75' RCCP CL IV & 2-AEWS

1480

EXISTING

PROPOSED

1475

677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692

1492.08 1492.42 1492.77 1493.13 1493.49 1493.85 1494.21 1494.57 1494.93 1495.29 1495.65 1496.01 1496.37 1496.73 1497.09 1497.45 1497.81 1498.17 1498.53 1498.89 1499.25 1499.61 1499.97 1500.33 1500.68 1500.96 1501.17 1501.30 1501.36

678+00 679+00 680+00 681+00 682+00 683+00 684+00 685+00 686+00 687+00 688+00 689+00 690+00 691+00 692+00

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 126	E

STA 693+20
MAINTAIN FE (GRAVEL)

STA 705+55
PE (GRAVEL)

N

707+20.00

SLOPE INTERCEPTS

695

N0° 15' 43"W

11458.01'

700

STH 13

705

BEGIN GRADING
STA 693+30 (L&R)

END GRADING
STA 696+23 (R)

END GRADING
STA 698+00 (L)

STA 694+73
REMOVING SMALL PIPE CULVERTS
(24" RCCP EXISTING)

692+40.00

STA 696+40
MAINTAIN PE (GRAVEL)

STA 703+75
PE (GRAVEL)

CONLEY RD - RT (GRAVEL)
STH 13 STA 707+00

5

5

1500
1490
1480
1470
1465

VCL = 1082.56

K = 340.00

STA 694+73
1-24"x107' RCCP CL IV & 2-AEWS

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

-2.46%

VPT STA 700+54.10
VPT EL 1491.04

EXISTING

PROPOSED

692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707
1501.35	1501.26	1501.10	1500.81	1500.56	1500.18	1499.73	1499.26	1498.60	1497.92	1497.17	1496.39	1495.46	1494.49	1493.45	1492.39
1491.14	1489.91	1488.68	1487.44	1486.21	1484.98	1483.75	1482.51	1481.28	1480.05	1478.82	1477.59	1476.35	1475.12		

693+00 694+00 695+00 696+00 697+00 698+00 699+00 700+00 701+00 702+00 703+00 704+00 705+00 706+00 707+00

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 127	E

STA 710+40
MAINTAIN FE (GRAVEL)

HAPPY CREEK

FEDERAL FOREST ROUTE 184 (GRAVEL)
STH 13 STA 720+20

N

722+00.00

TRIBUTARY TO
HAPPY CREEK

SLOPE INTERCEPTS

END GRADING
STA 720+00 (L)

N0° 15' 43"W
11458.01'

STH 13

710

715

720

BEGIN GRADING
STA 710+60 (L&R)

END GRADING
STA 717+50 (R)

INSTALL MGS GUARDRAIL
HALF POST SPACING

BEGIN GRADING
STA 720+00 (R)

END GRADING
STA 722+00 (R)

STA 711+64
REMOVING SMALL PIPE CULVERTS
(36" RCCP EXISTING)

STA 718+30
REMOVING SMALL PIPE CULVERTS
(57"CMP & 48" RCCP EXISTING)

707+20.00

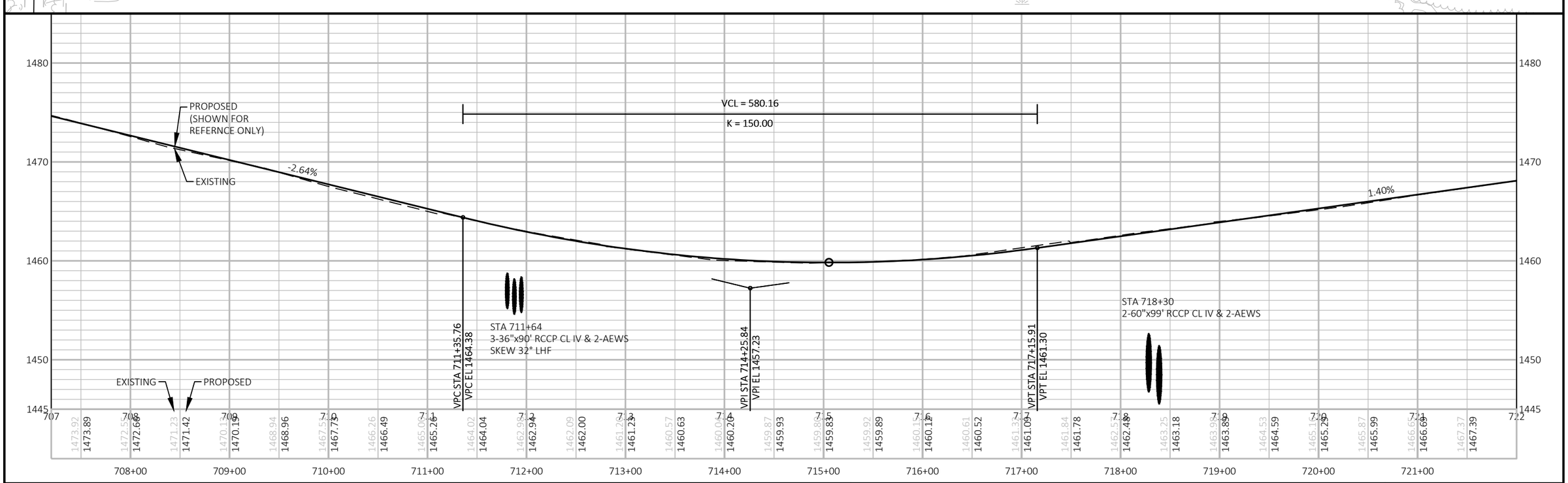
STA 711+95
PE (GRAVEL)

MGS EAT:
POST 1: STA 717+00
POST 5: STA 717+25
POST 9: STA 717+50

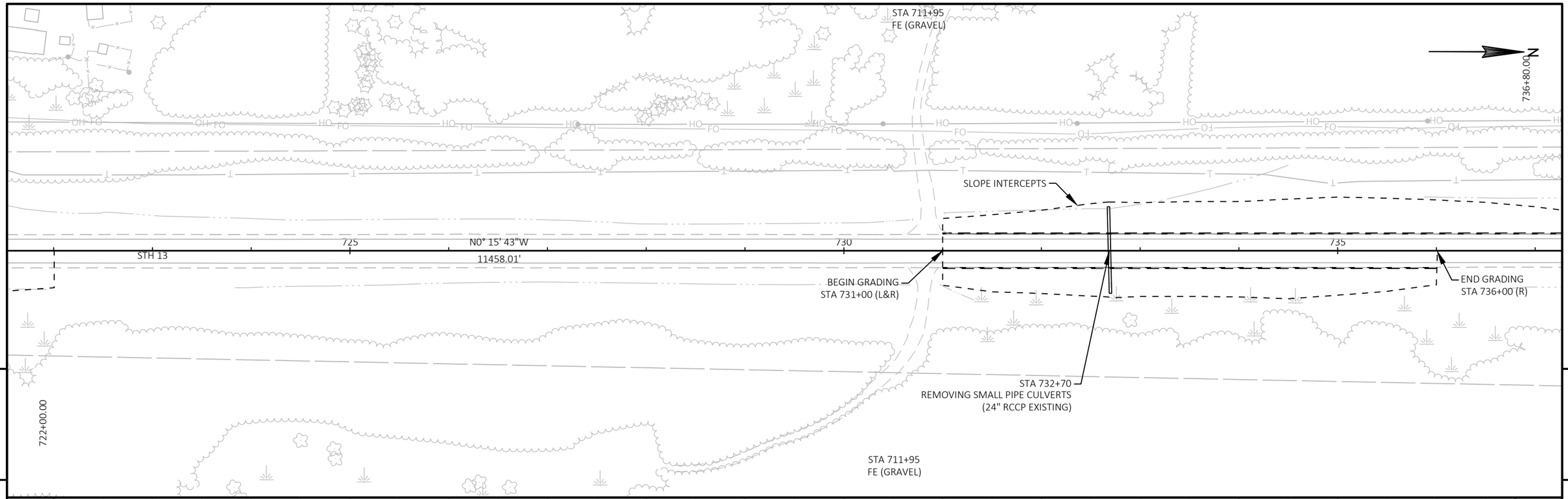
MGS EAT:
POST 9: STA 720+50
POST 5: STA 720+75
POST 1: STA 721+00

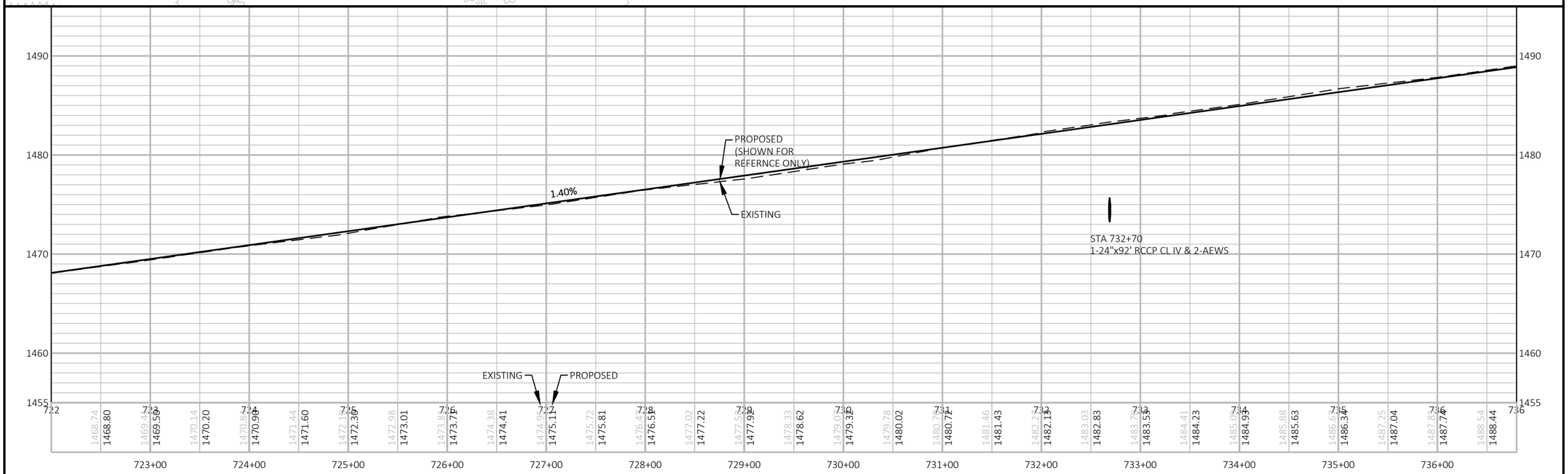
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 128	E





PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 129	E

STA 741+25
FE (GRAVEL)

STA 747+90
FE (GRAVEL)

N

751+60.00

SLOPE INTERCEPTS

740

STH 13

N0° 15' 43"W

11458.01'

745

750

END GRADING
738+00 (L)

736+80.00

STA 745+50
FE (GRAVEL)

STA 747+85
FE (GRAVEL)

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

1.40%

VPC STA 737+21.98
VPC EL 1489.45

VPI STA 742+99.08
VPI EL 1497.55

VCL = 1154.19

K = 252.50

-3.17%

VPT STA 748+76.17
VPT EL 1479.27

EXISTING

PROPOSED

1500
1490
1480
1470
1460

736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752
1489.27	1489.14	1489.80	1489.83	1490.33	1490.43	1490.74	1490.92	1491.32	1491.32	1491.47	1491.62	1491.77	1491.82	1491.82	1491.92	1491.72	1491.93	1491.77	1491.83	1491.52	1491.63	1491.26	1491.34	1490.95	1490.95	1490.48	1490.45	1489.91	1489.86	1489.25	1489.17	1488.58	1488.38	1487.61	1487.49	1486.56	1486.51	1485.55	1485.42	1484.44	1484.23	1483.21	1482.95	1481.77	1481.57	1480.19	1480.08	1478.66	1478.51	1476.99	1476.93	1475.38	1475.34	1473.62	1473.76	1472.09	1472.18	1470.59	1470.59

737+00 738+00 739+00 740+00 741+00 742+00 743+00 744+00 745+00 746+00 747+00 748+00 749+00 750+00 751+00

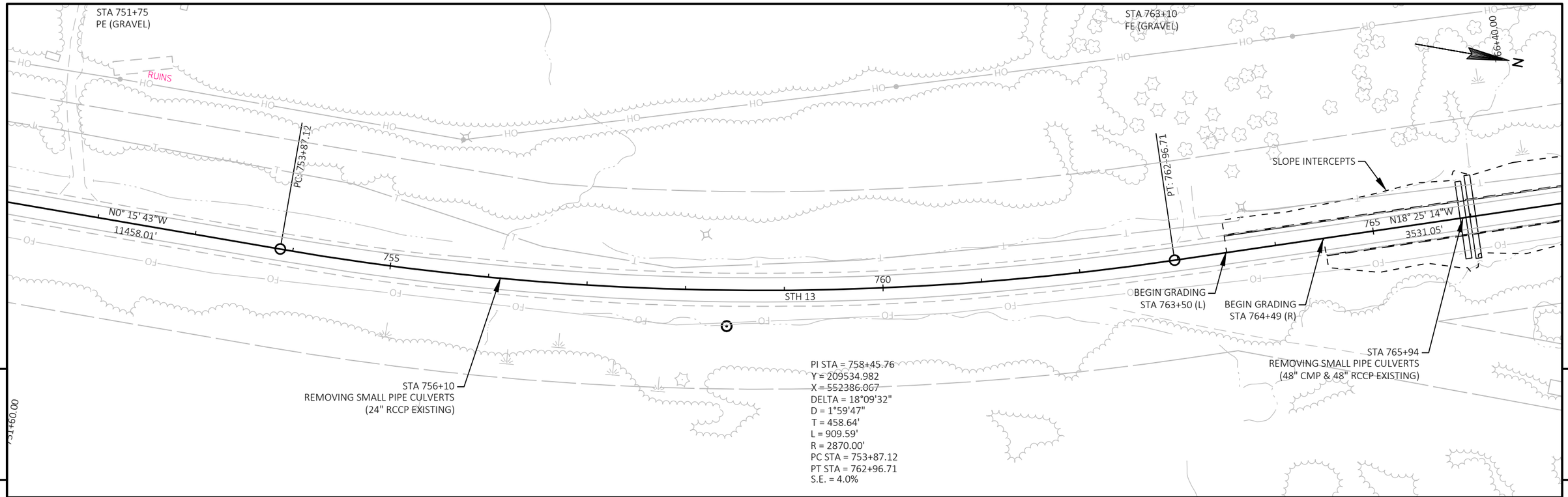
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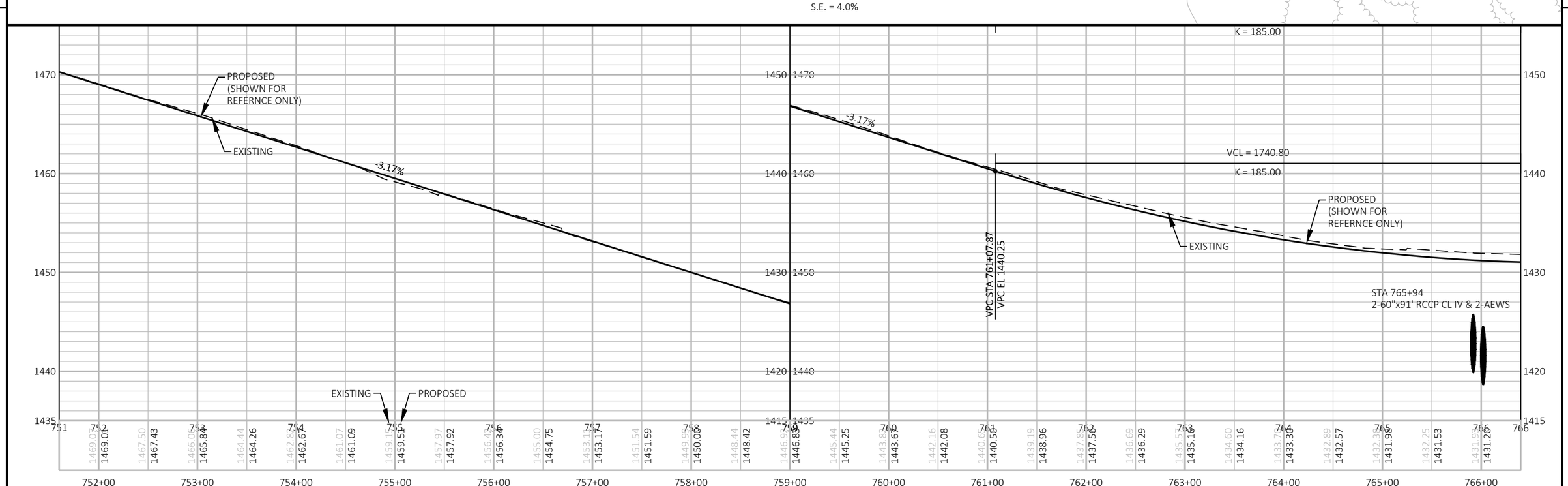
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 130	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_P&P.DWG
LAYOUT NAME - 7

PLOT DATE : 7/16/2019 12:27 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########





PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 131	E

STA 768+30
MAINTAIN PE (GRAVEL)

SEPTIC
SEPTIC

SLOPE INTERCEPTS

770

STH 13

775

780

N18° 25' 14"W
3531.05'

781+20.00

STA 780+75
PE (GRAVEL)

ANCHOR

END GRADING
STA 768+00 (L&R)

STA 770+78
REMOVING SMALL PIPE CULVERTS
(36" RCCP EXISTING)

REMOVE CURB & GUTTER

STA 776+00
REMOVING OLD STRUCTURE (STA 776+00)
(60" RCCP EXISTING)

5

5

766+40.00

STA 768+35
PE (GRAVEL)

LAKE DRIVE (PAVED)
STH 13 STA 774+25
REMOVING SMALL PIPE CULVERTS
INSTALL: 1-24"X 47' CP CL III-A
NON-METAL & 2-AEW

STA 777+40
FE (GRAVEL)

VPC STA 779+90.90
VPC EL 1475.88

VCL = 1740.80
K = 185.00

6.24%

VCL = 471.54
K = 130.00

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

VPT STA 778+48.67
VPT EL 1467.01

STA 770+78
1-36"x87' RCCP CL IV & 2-AEWS
SKEW 27° LHF

EXISTING

PROPOSED

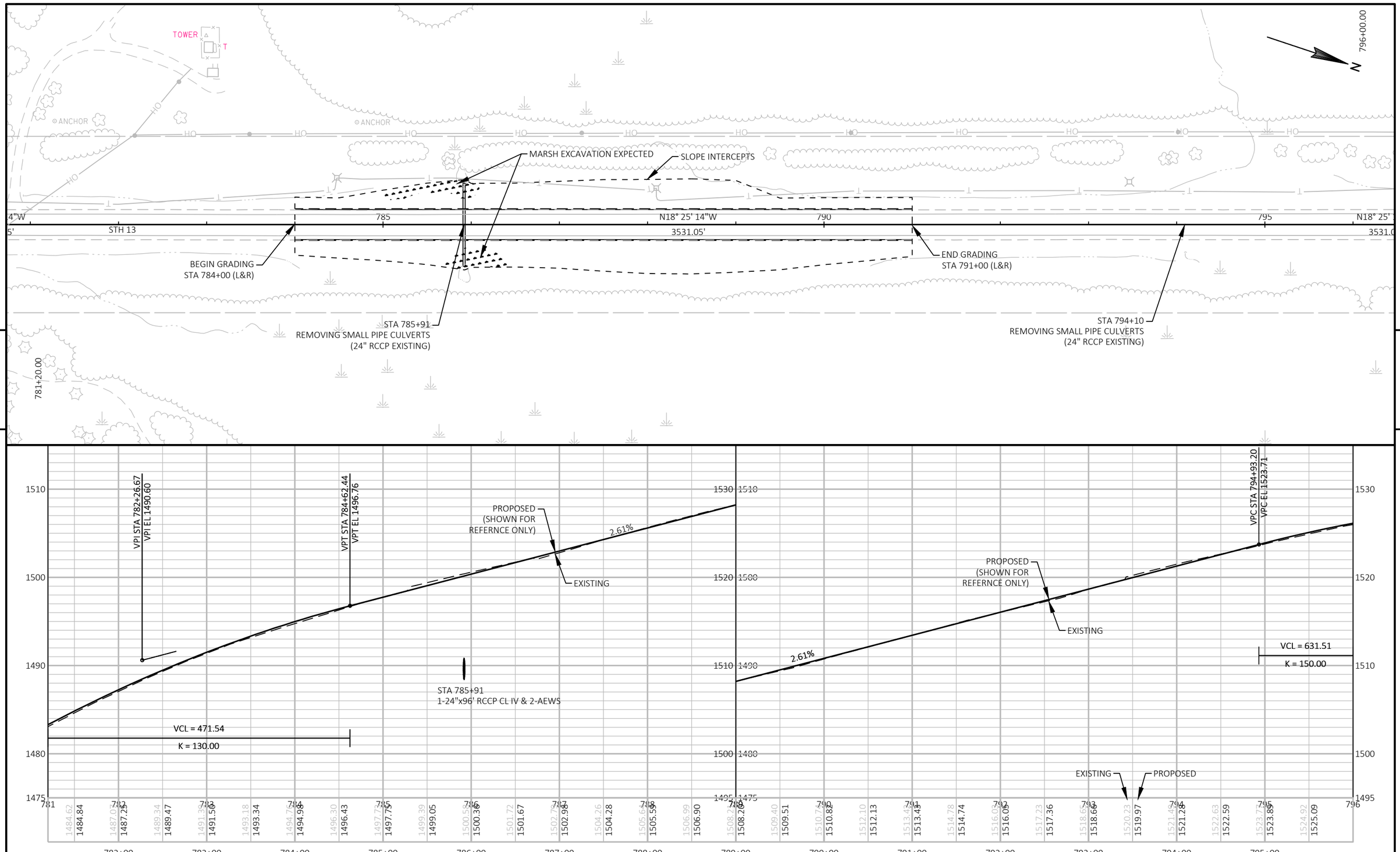
1420
1430
1440
1450
1460
1470
1480

766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 781

1431.17 1431.02 1431.67 1430.97 1431.84 1431.05 1432.00 1431.23 1432.38 1431.62 1432.81 1432.11 1433.45 1432.74 1434.13 1433.50 1435.22 1434.39 1436.19 1435.42 1437.16 1436.59 1438.08 1437.89 1439.14 1439.32 1440.30 1440.89 1441.81 1442.60 1443.46 1444.44 1445.37 1446.42 1447.67 1448.53 1450.39 1450.77 1453.01 1453.16 1455.87 1455.67 1458.58 1458.32 1461.54 1461.11 1464.58 1464.09 1467.34 1467.09 1470.26 1470.21 1473.29 1473.33 1476.15 1476.45 1479.08 1479.44 1481.97 1482.22

767+00 768+00 769+00 770+00 771+00 772+00 773+00 774+00 775+00 776+00 777+00 778+00 779+00 780+00 781+00

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 132	E

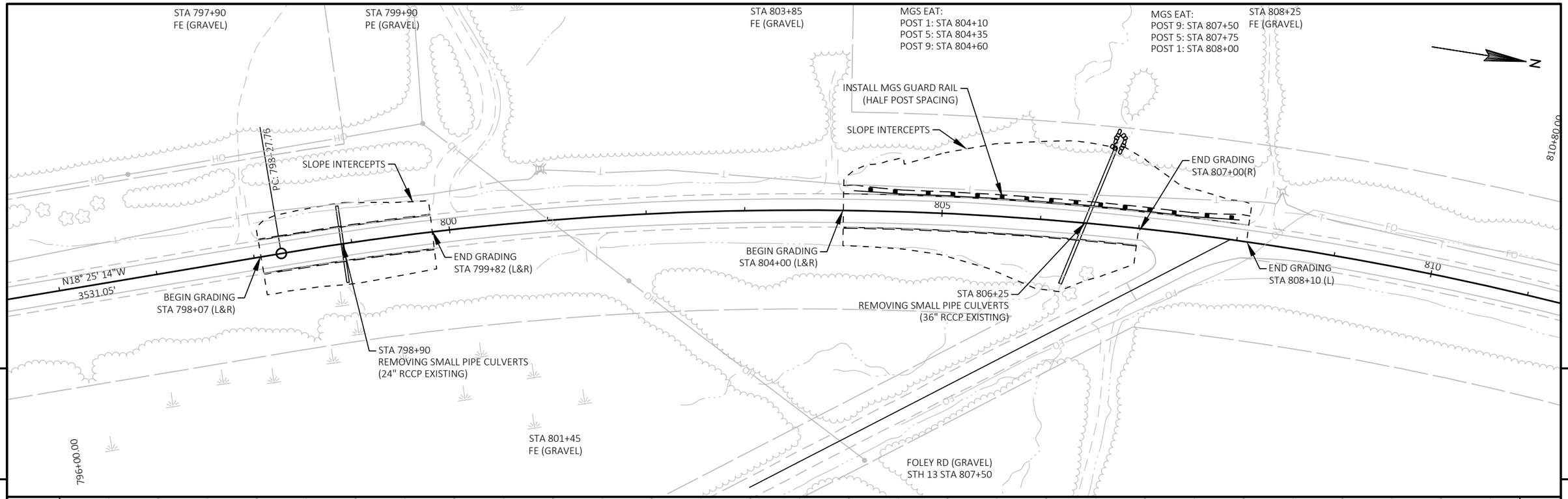


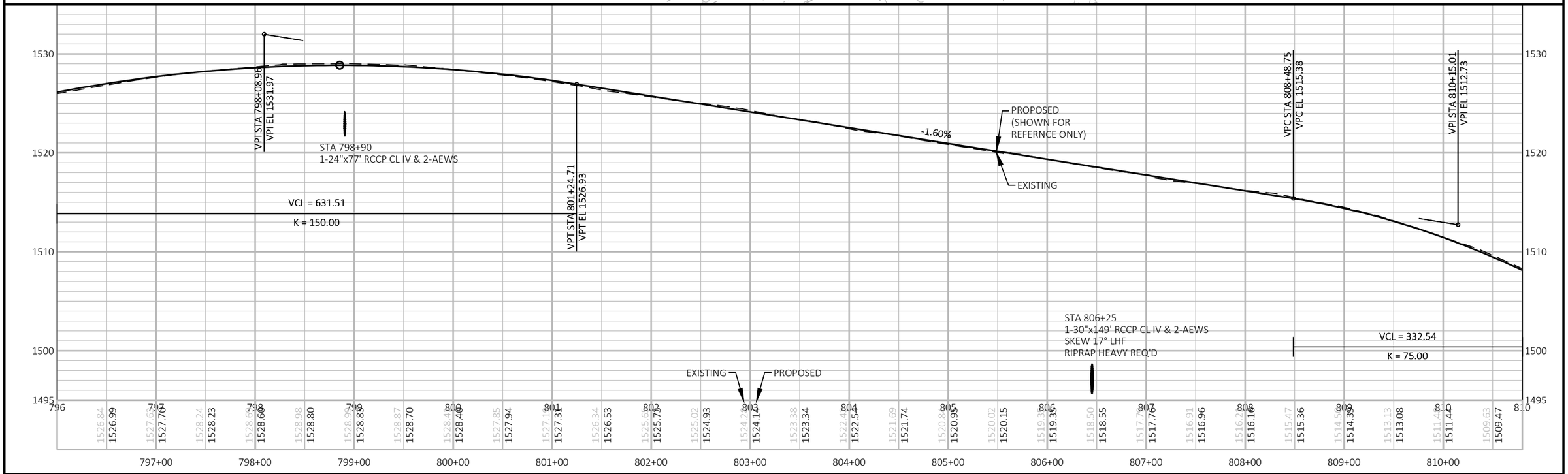
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 133	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_P&P.DWG
LAYOUT NAME - 10

PLOT DATE : 7/16/2019 12:27 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44





PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 134 E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_P&P.DWG
LAYOUT NAME - 11

PLOT DATE : 7/16/2019 12:27 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

MGS EAT:
POST 1: STA 813+00
POST 5: STA 813+25
POST 9: STA 813+50

INSTALL MGS GUARD RAIL
(HALF POST SPACING)

SLOPE INTERCEPTS

BEGIN GRADING
STA 811+83 (L)

STH 13

STA 814+94
ABANDONING CULVERT PIPE
(30" RCCP EXISTING)

PI STA = 814+84.20
Y = 214891.814
X = 550601.939
DELTA = 54°59'06"
D = 1°48'00"
T = 1656.44'
L = 3054.63'
R = 3183.00'
PC STA = 798+27.76
PT STA = 828+82.39
E = 3.70%

STA 823+68
REMOVING SMALL PIPE CULVERTS
(30" RCCP EXISTING)

VPT STA 811+50.00
VPT EL 1507.16

VCL = 332.54
K = 75.00

-6.03%

-6.03%

-6.03%

VCL = 1162.41
K = 200.00

VPC STA 821+65.32
VPC EL 1443.37

STA 823+68
1-30"x175' RCCP CL IV & 2-AEWS
RIPRAP HEAVY REQ'D

EXISTING

PROPOSED

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 135	E

MGS EAT:
POST 9: STA 825+50
POST 5: STA 825+75
POST 1: STA 826+00

STA 826+45
PE (GRAVEL)

FOLEY RD (GRAVEL)
STH 13 STA 828+50

PT: 828+82.39

STH 13

END GRADING
STA 826+30 (L)

BEGIN GRADING
STA 830+50 (L&R)

SLOPE INTERCEPTS

N36° 33' 52"E
9118.18'

STA 831+87
REMOVING SMALL PIPE CULVERTS
(24" RCCP EXISTING)

STA 835+45
REMOVING SMALL PIPE CULVERTS
(30" RCCP EXISTING)

END GRADING
STA 837+00 (L&R)

STA 840+00
FE (GRAVEL)

840+40.00

825+60.00

STA 826+20
FE (GRAVEL)

TAFELSKI RD (GRAVEL)
STH 13 STA 829+00

STA 840+00
PE (GRAVEL)

VCL = 1162.41
K = 200.00

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

-0.22%

VPI STA 827+46.53
VPI EL 1408.33

STA 831+87
1-24"x86' RCCP CL IV & 2-AEWS

VPT STA 833+27.73
VPT EL 1407.07

STA 835+45
1-30"x80' RCCP CL IV & 2-AEWS
RIPRAP HEAVY REQ'D

EXISTING PROPOSED

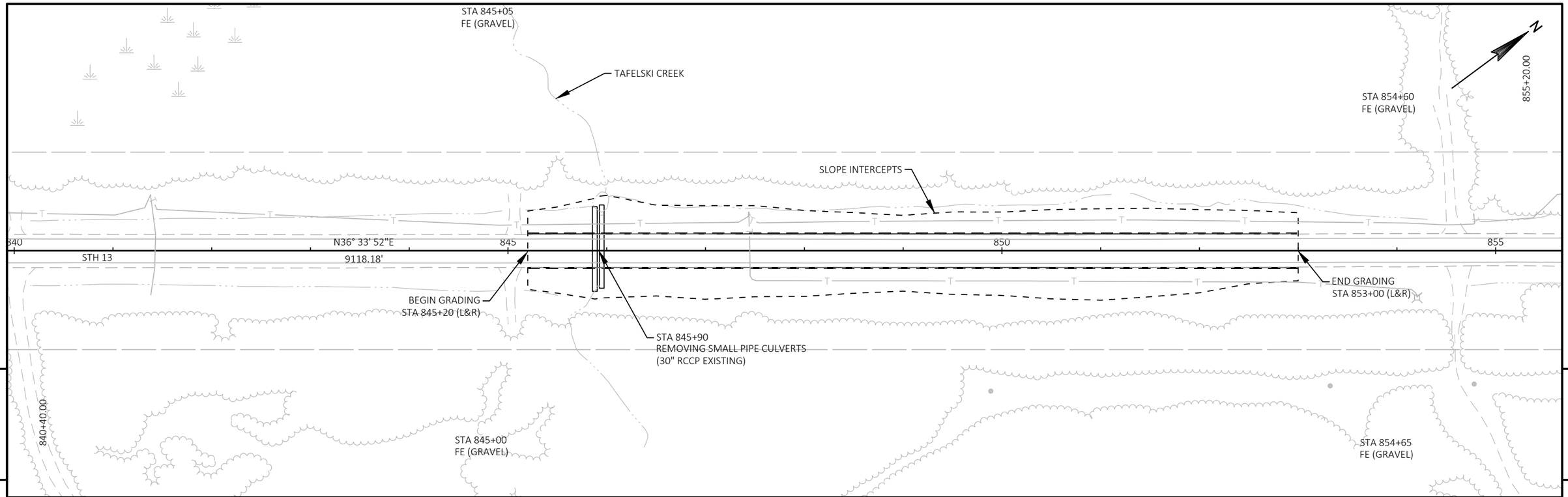
826+00	827+00	828+00	829+00	830+00	831+00	832+00	833+00	834+00	835+00	836+00	837+00	838+00	839+00	840+00
1421.89	1420.03	1418.29	1416.67	1415.18	1413.81	1412.57	1411.46	1410.47	1409.60	1408.86	1408.25	1407.76	1407.39	1407.13	1407.02	1406.94	1406.81	1406.76	1406.59	1406.46	1406.37	1406.26	1406.15	1406.09	1405.94	1405.83	1405.72	1405.61

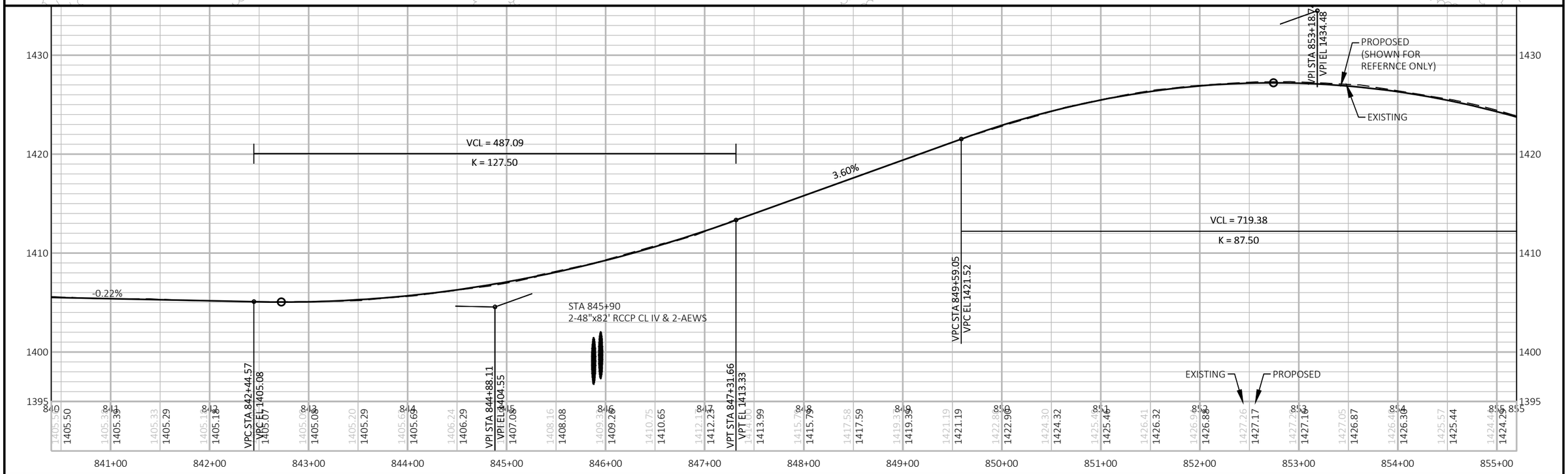
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 136	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_P&P.DWG
LAYOUT NAME - 13

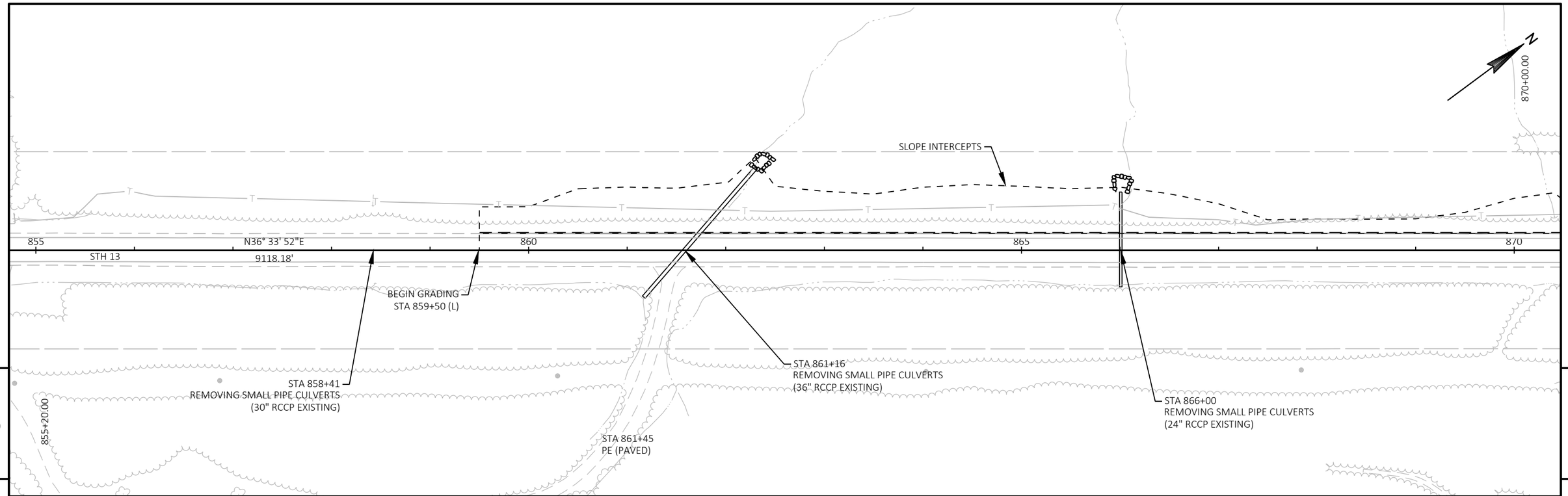
PLOT DATE : 7/16/2019 12:28 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : ############

WISDOT/CADDS SHEET 44

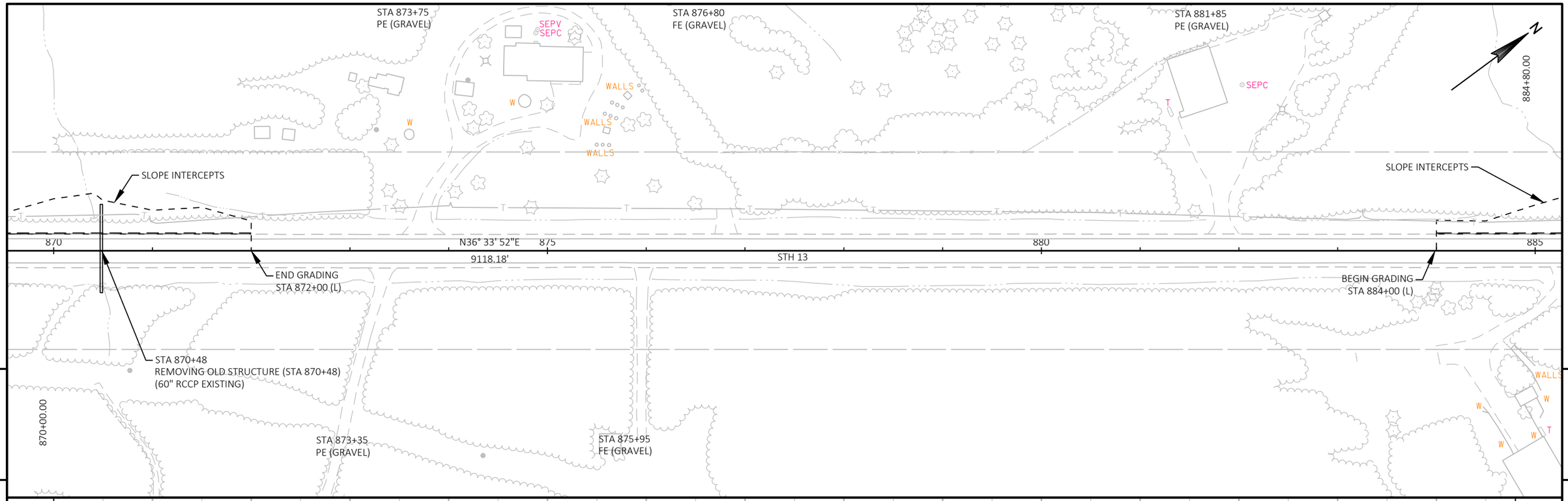


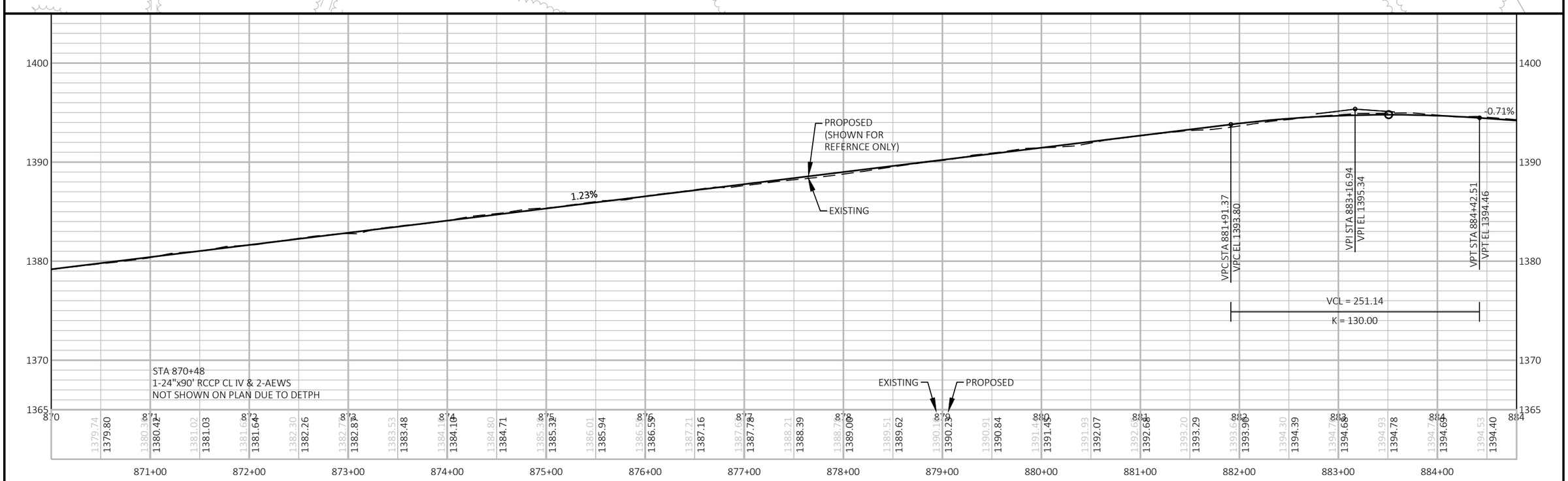


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 137	E



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 138	E





PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 139	E

STA 890+25
PE (GRAVEL)

STA 893+10
PE (GRAVEL)

899+60.00

SEPV
SEPV

SLOPE INTERCEPTS

SLOPE INTERCEPTS

885 890 895 90

N36° 33' 52"E
9118.18'

STH 13

SIGN

BEGIN GRADING
STA 885+69 (R)

END GRADING
STA888+10 (R)

END GRADING
STA 890+00 (L)

BEGIN GRADING
STA 895+50 (L&R)

STA 885+78
REMOVING SMALL PIPE CULVERTS
(36" RCCP EXISTING)

WALLS
WALLS

884+80.00

STA 885+30
PE (GRAVEL)

STA 888+30
PE (GRAVEL)

PINECREST LANE (GRAVEL)
STH 13 STA 898+80

5

5

VPC STA 890+44.48
VPC EL 1390.21

VPI STA 892+43.97
VPI EL 1388.80

VPT STA 894+43.46
VPT EL 1376.78

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

-0.71%

EXISTING

STA 885+78
1-36"x135' RCCP CL IV & 2-AEWS
SKEW 41° LHF

VCL = 398.98

K = 75.00

-6.03%

EXISTING

PROPOSED

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

-6.03%

1400 1390 1380 1370 1365

1400 1370 1390 1360 1380 1350 1370 1340 1365

1394.05 1393.61 1393.70 1393.30 1393.35 1393.07 1392.99 1392.54 1392.64 1392.22 1392.29 1391.87 1391.93 1391.53 1391.58 1391.29 1391.29 1390.88 1390.88 1390.60 1390.52 1390.17 1390.17 1389.69 1389.61 1388.71 1388.72 1387.46 1387.50 1386.05 1385.94 1384.03 1384.03 1381.84 1381.83 1379.19 1379.28 1376.38 1376.39 1373.39 1373.39 1370.26 1370.36 1367.39 1367.39 1364.24 1364.34 1361.19 1361.33 1357.95 1358.31 1355.08 1355.38 1351.92 1352.29 1348.78 1349.28 1346.33 1346.28

884 885 885+00 886 886+00 887 887+00 888 888+00 889 889+00 890 890+00 891 891+00 892 892+00 893 893+00 894 894+00 895 895+00 896 896+00 897 897+00 898 898+00 899 899+00

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 140	E

STA 902+45
FE (GRAVEL)

STA 907+05
PE (PAVED)

BERKSHIRE DRIVE (GRAVEL)
STH 13 STA 909+22

SEPV
SEPTIC
SEPV
SEPC

T

SLOPE INTERCEPTS

SIGN

900
905
910

N36° 33' 52"E
9118.18'

N36° 33' 52"E
9118.18'

914+40.00

STH 13

SIGN

END GRADING
STA 902+00 (L&R)

SIGN

SIGN

SIGN

STA 899+81
REMOVING SMALL PIPE CULVERTS
(30" RCCP EXISTING)

899+60.00

STA 904+30
FE (GRAVEL)

STA 907+15
FE (GRAVEL)

5

5

VCL = 309.65
K = 130.00

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

-6.03%

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

-6.03%

PROPOSED
(SHOWN FOR
REFERNCE ONLY)

EXISTING

VPC STA 908+90.03
VPC EL 1289.63

VPI STA 910+44.86
VPI EL 1280.30

VPT STA 911+99.68
VPT EL 1274.66

STA 899+81
1-30"x159' RCCP CL IV & 2-AEWS
SKEW 18° LHF
RIPRAP HEAVY REQ'D

EXISTING

PROPOSED

1340
1330
1320
1310
1290
1280
1270
1260
1255

899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914

1343.29 1340.24 1337.23 1334.21 1331.20 1328.19 1325.18 1322.16 1319.15 1316.14 1313.15 1310.11 1307.16 1304.09 1301.08 1298.06 1295.05 1292.04 1289.03 1286.15 1283.46 1280.97 1278.67 1276.56 1274.64 1272.82 1271.03 1269.18 1267.34

900+00 901+00 902+00 903+00 904+00 905+00 906+00 907+00 908+00 909+00 910+00 911+00 912+00 913+00 914+00

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 141	E

STA 917+20
PE (GRAVEL)

STA 924+40
FE (GRAVEL)

END PROJECT 1610-08-76
STA 927+00

PT STA 928+58.63

N36° 33' 52"E
9118.18'

915

STH 13

SIGN

PC: 920+00.57

920

SLOPE INTERCEPTS

925

BEGIN GRADING
STA 917+50 (L&R)

END GRADING
STA 924+22 (L&R)

STA 921+37
REMOVING SMALL PIPE CULVERTS
(36" RCCP EXISTING)

PI STA = 924+43.56
Y = 223901.654
X = 557284.558
DELTA = 35°07'00"
D = 4°05'33"
T = 442.99'
L = 858.06'
R = 1400.00'
PC STA = 920+00.57
PT STA = 928+58.63
E = 5.70%

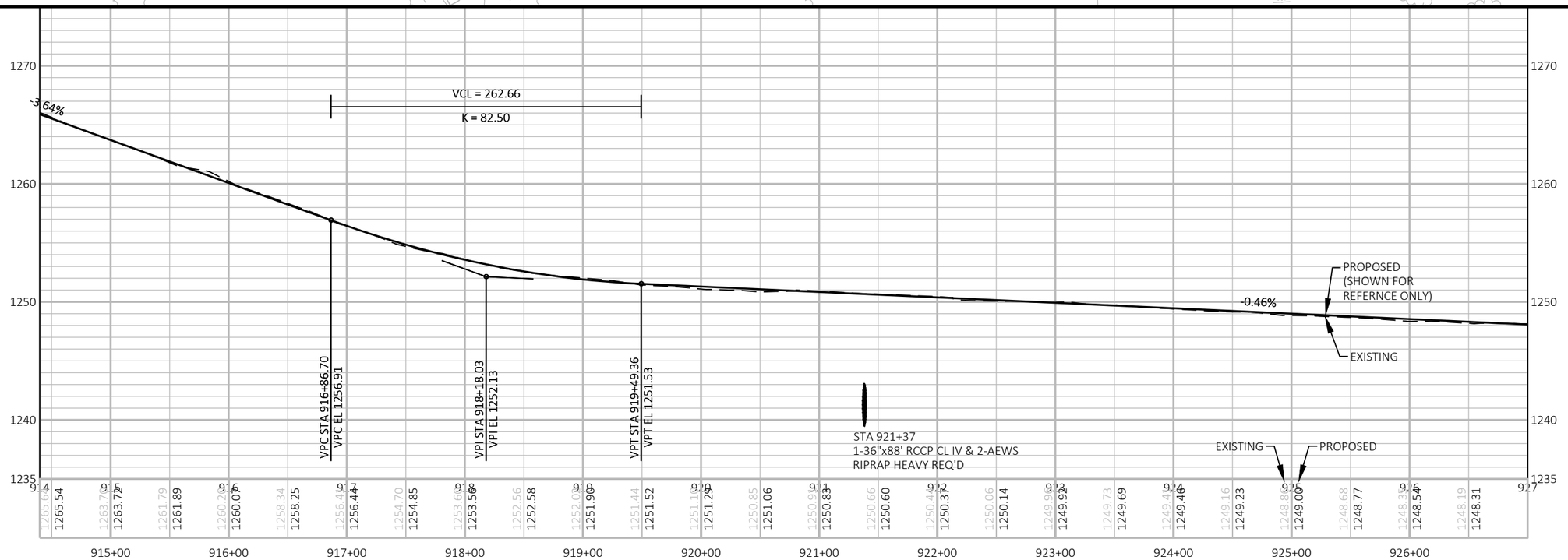
914+40.00

STA 916+80
FE (GRAVEL)

STA 924+50
FE (GRAVEL)

5

5

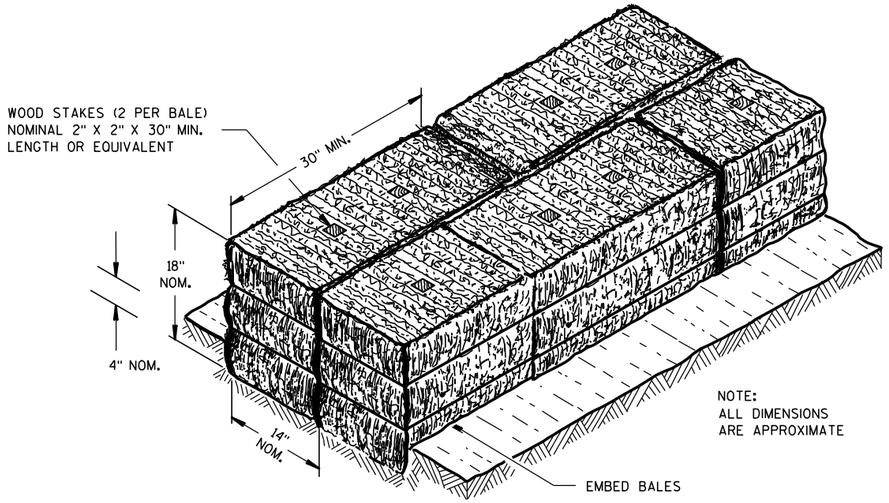


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	PLAN AND PROFILE: - STH 13 (1610-08-76)	SHEET 142	E

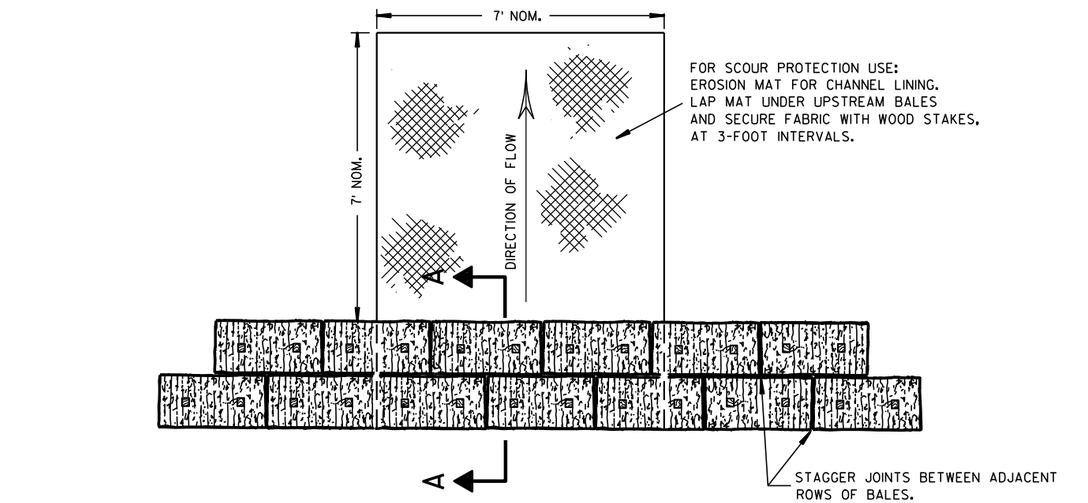
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-07F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D33-05	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

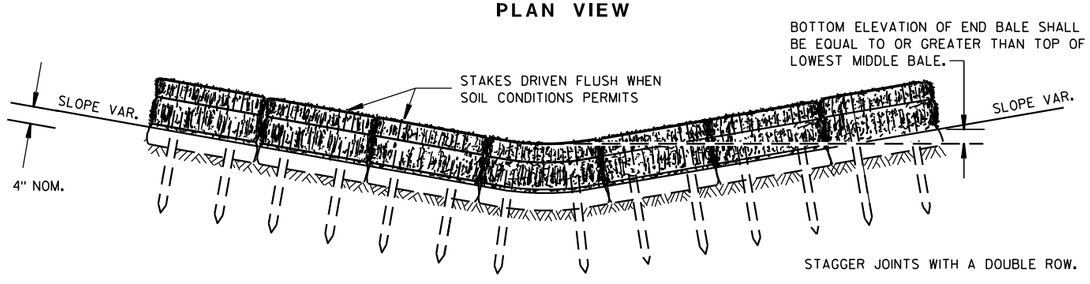
6



SECTION A-A



PLAN VIEW



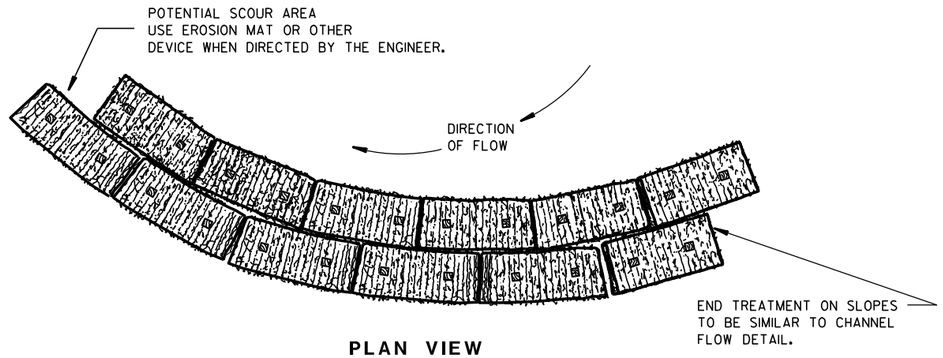
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

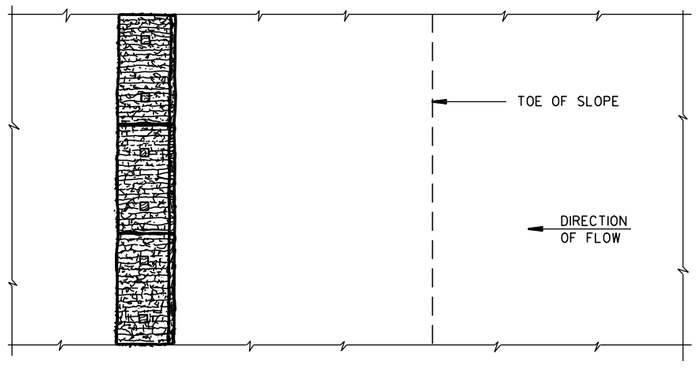
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

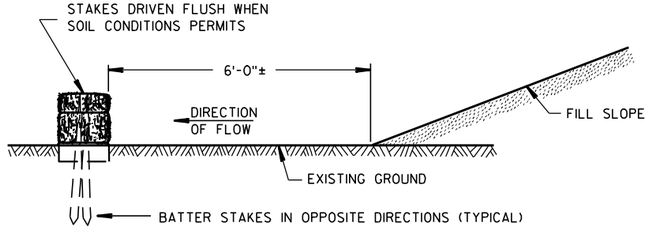


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

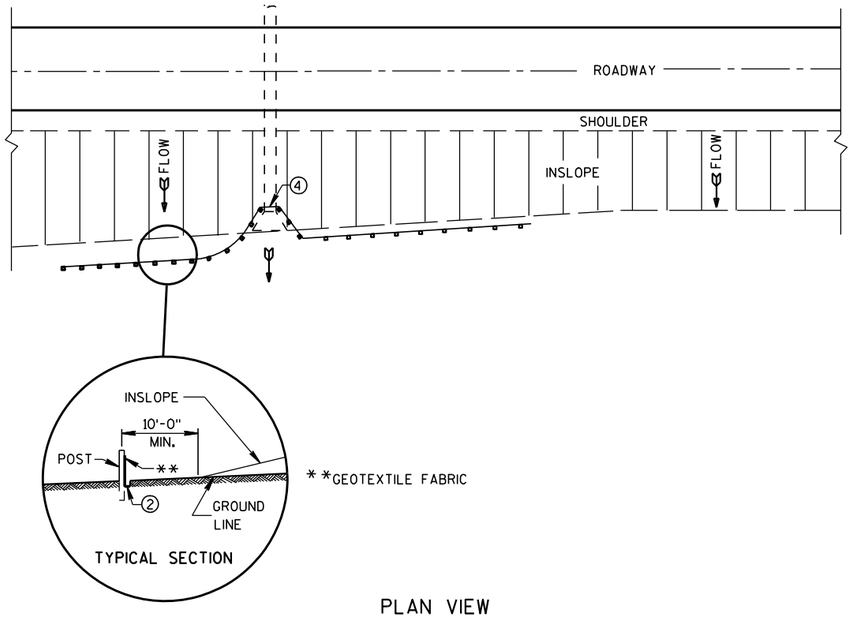
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

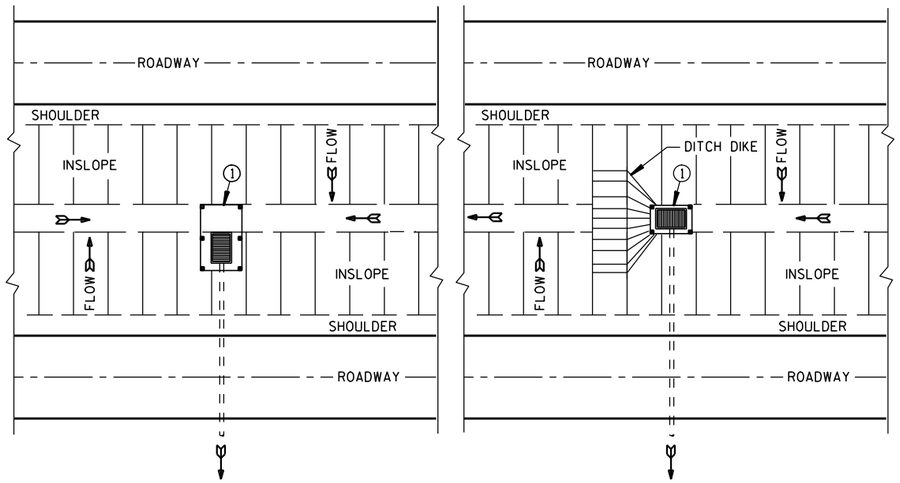
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



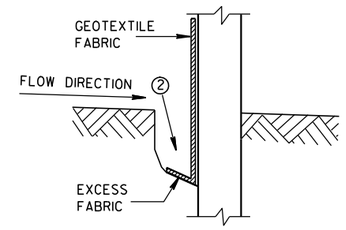
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

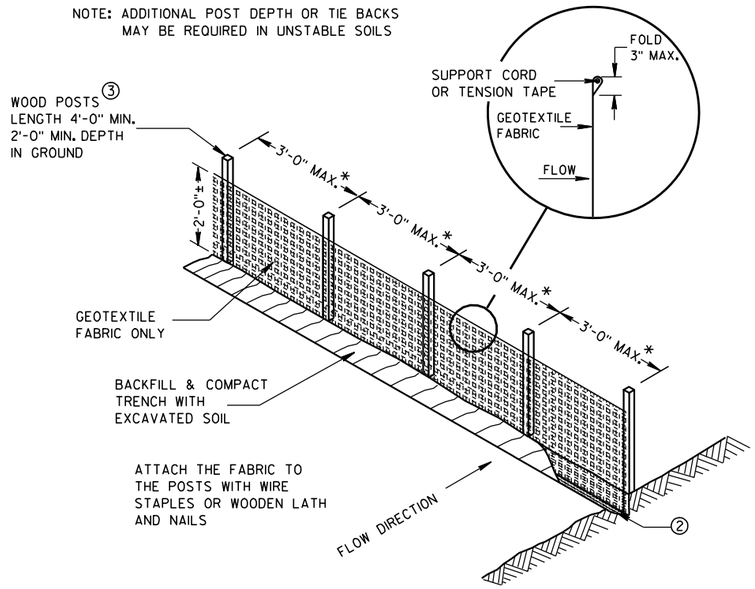
GENERAL NOTES

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

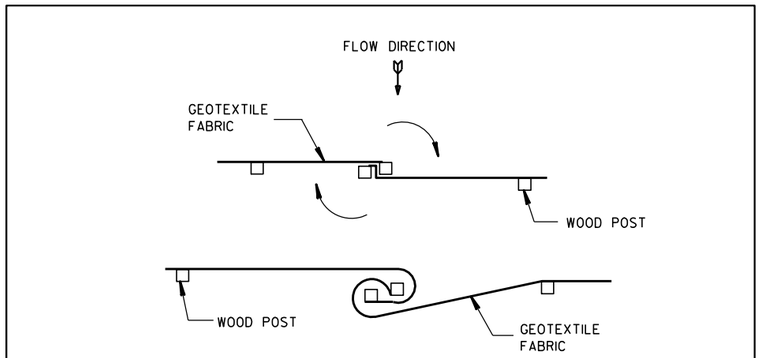
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



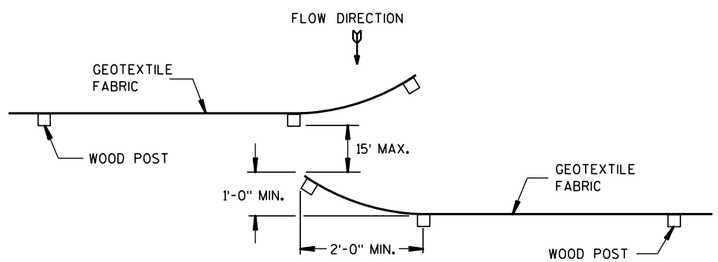
TRENCH DETAIL



SILT FENCE

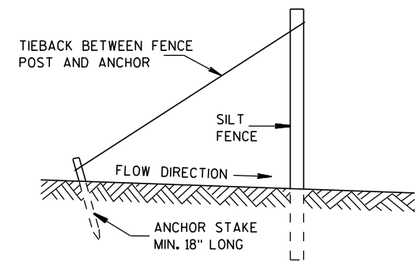


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

6

S.D.D. 8 E 9-6

6

S.D.D. 8 E 9-6

METAL APRON ENDWALLS

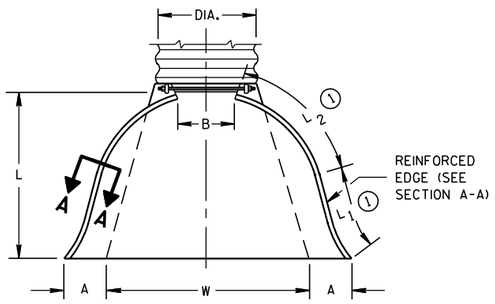
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

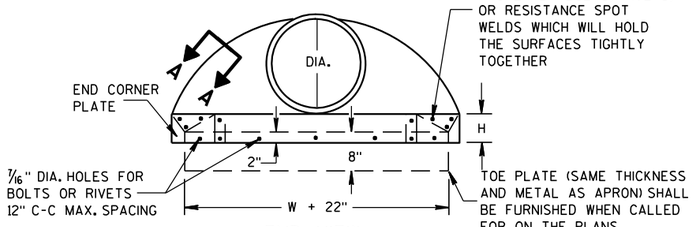
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

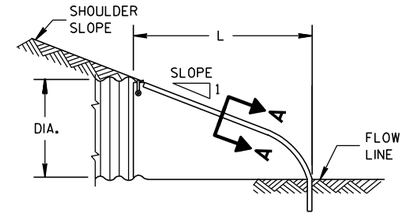
*MINIMUM
**MAXIMUM



PLAN VIEW

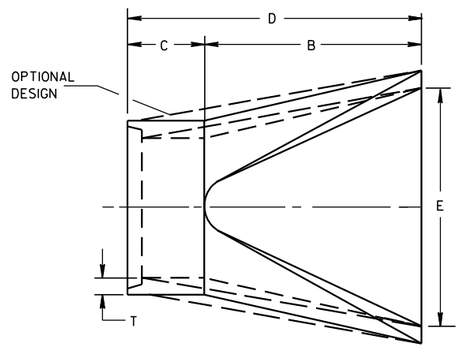


END VIEW

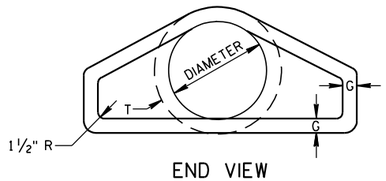


SIDE ELEVATION

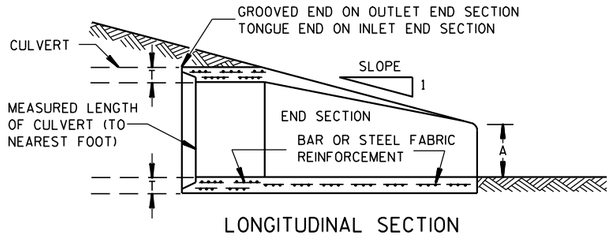
METAL ENDWALLS



PLAN

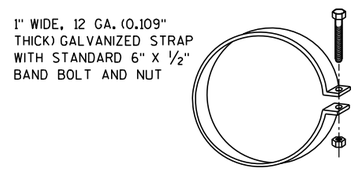


END VIEW



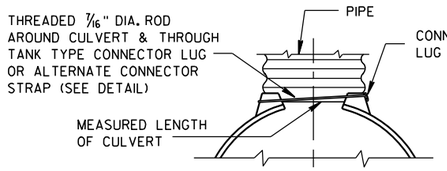
LONGITUDINAL SECTION

CONCRETE ENDWALLS

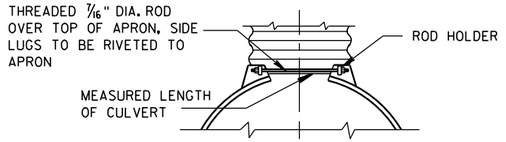


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

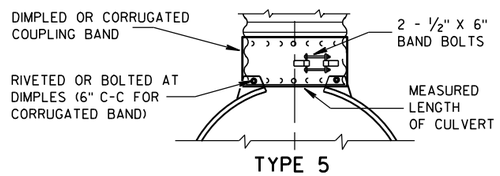


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

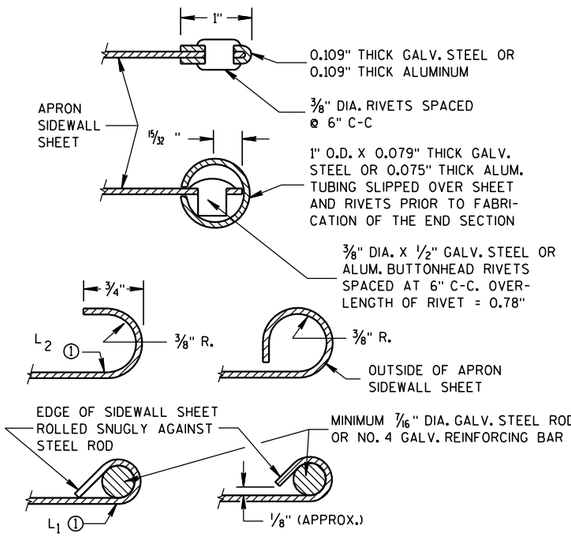
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

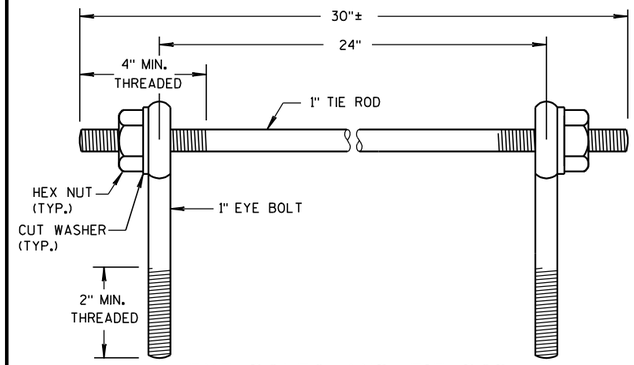
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

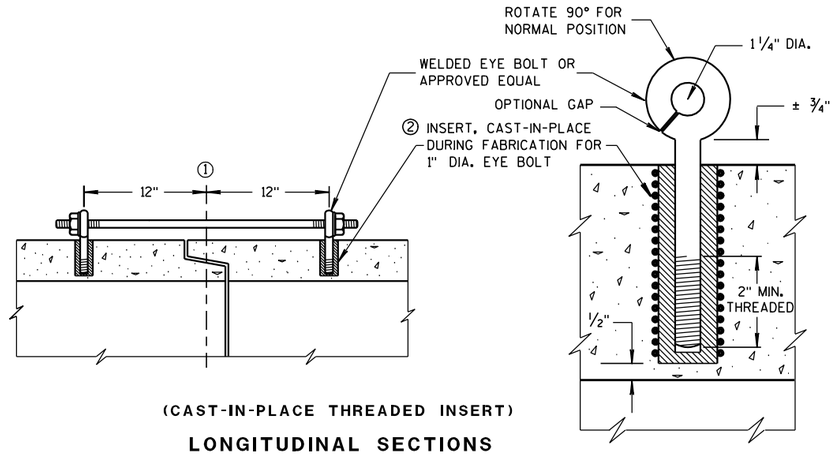
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

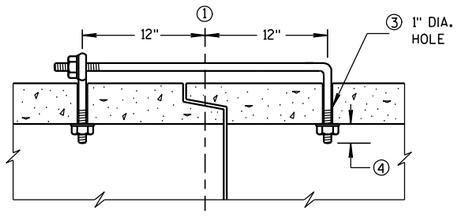
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

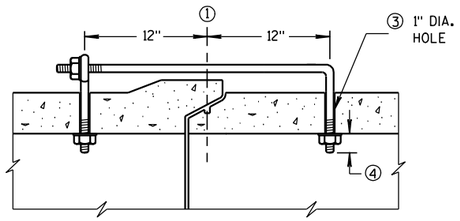
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

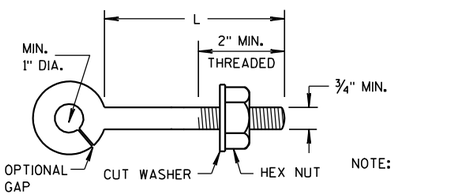


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

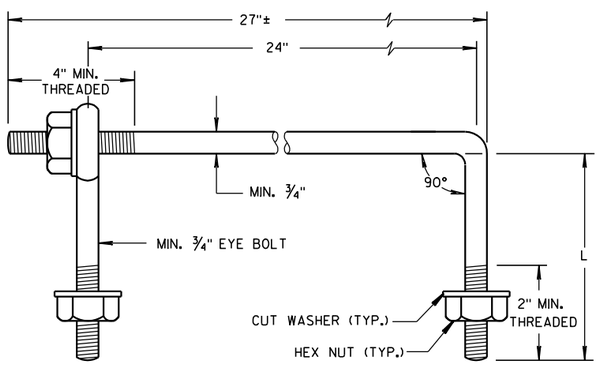
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

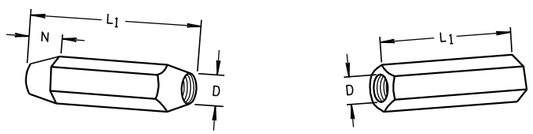
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

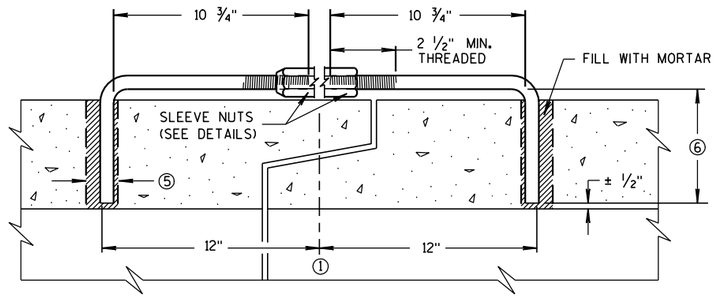
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

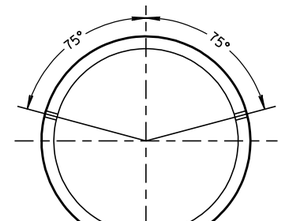
SLEEVE NUTS



LONGITUDINAL SECTION

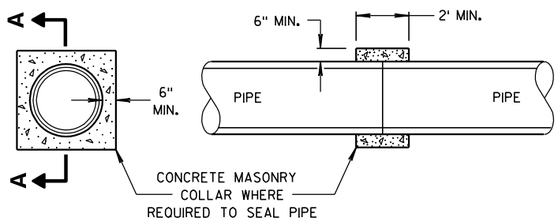
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

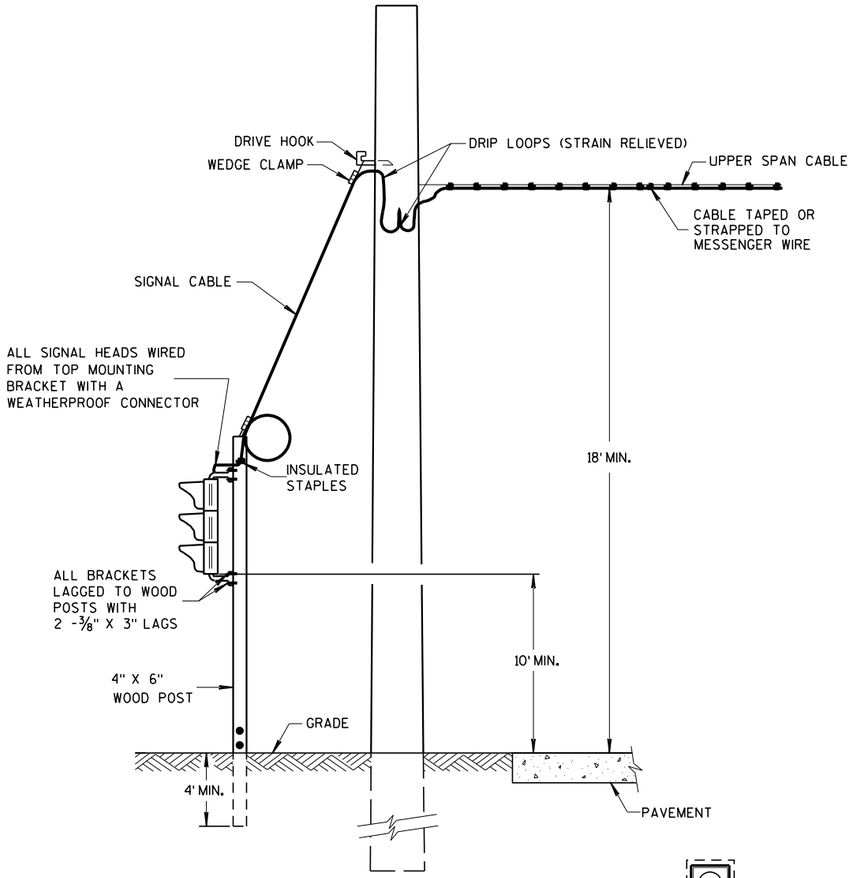
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

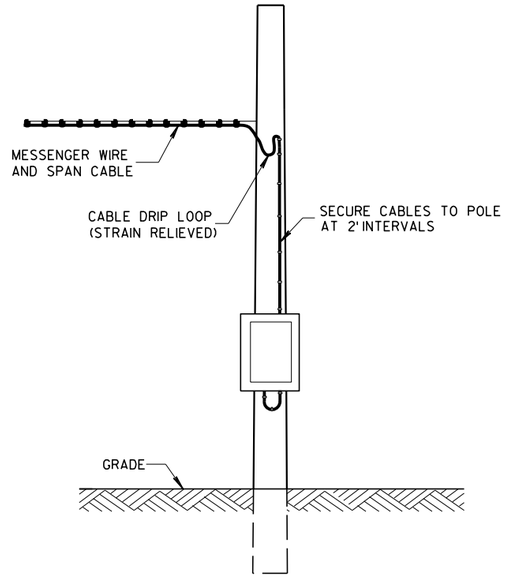
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
147
FHWA

6

S.D.D. 8 F 4-7



TYPICAL DROP TO TRAFFIC SIGNAL FACE



POLE MOUNT CABINET INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE MOUNTED TRAFFIC SIGNAL CONTROL CABINET MAYBE MOUNTED ON THE SERVICE POLE IF THE ELECTRICAL UTILITY ALLOWS THE INSTALLATION.

WHEN UTILITY POLES ARE USED TO SPAN THE TEMPORARY OVERHEAD CABLE, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER OF THE POLES AND GIVEN TO THE PROJECT MANAGER. ALL PERTINENT UTILITY AND CODE CLEARANCES SHALL BE MAINTAINED.

WOOD POLES (NONBREAKAWAY) SHALL BE NO CLOSER TO EDGE OF PAVEMENT THAN OFFSET DISTANCE CHART ALLOWS OR 4 FEET BEHIND PROTECTIVE BARRIER (BEAM GUARD, ETC.).

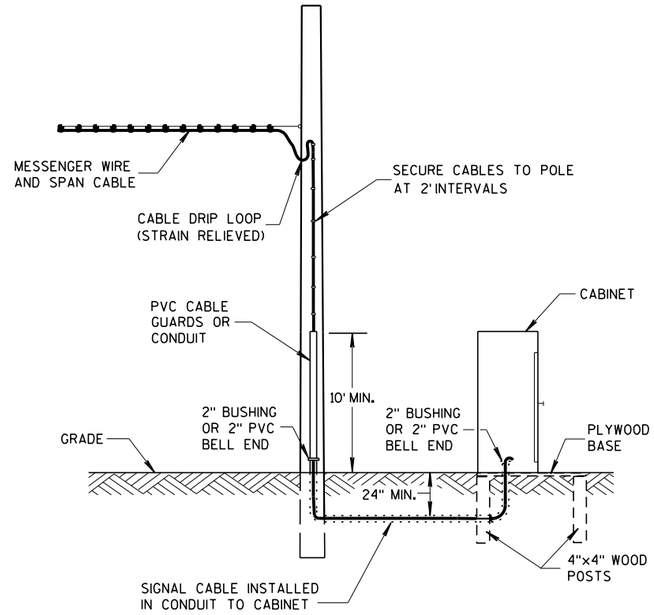
WOOD POSTS (BREAKAWAY) SHALL BE NO CLOSER THAN 2 FEET OUTSIDE OF SHOULDER.

VERTICAL CLEARANCE ETC. PER NEC.

TRAFFIC SIGNAL FACES SHALL BE TYPICALLY PLACED 12 FEET FROM EDGE OF PAVEMENT.

EACH TRAFFIC SIGNAL FACE SHALL HAVE A BACKPLATE.

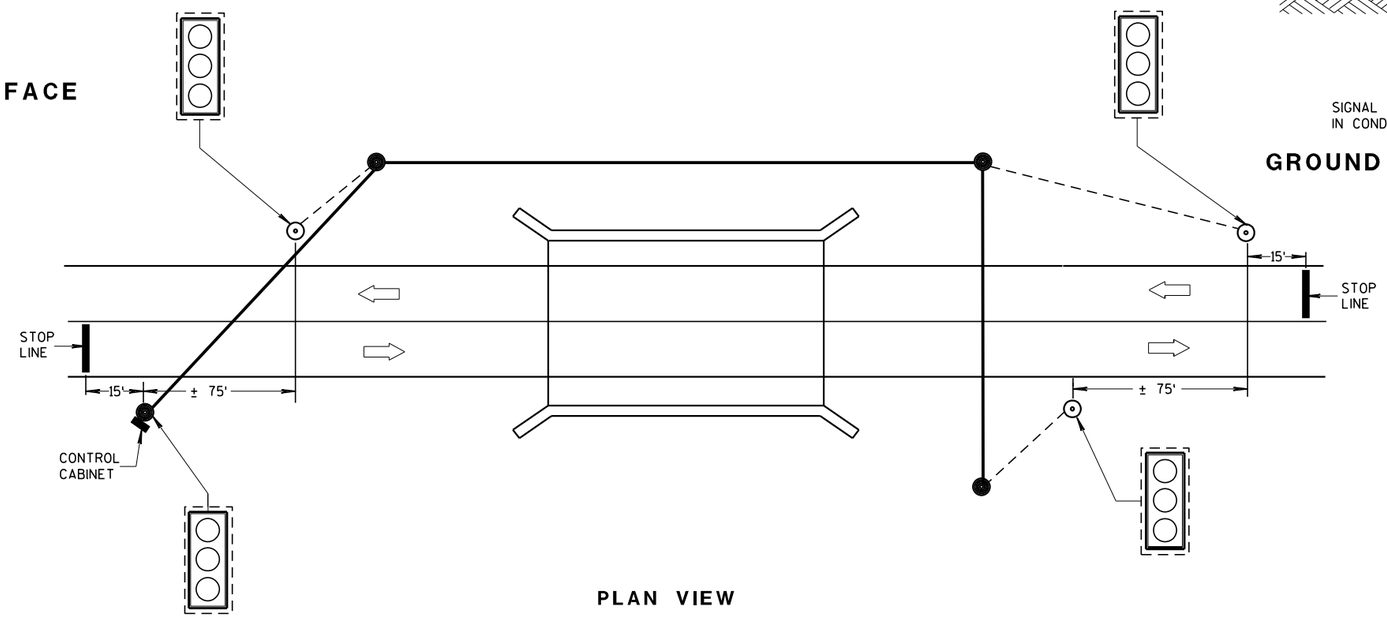
SIGNING, PAVEMENT MARKING AND LANE CONTROL REQUIREMENTS SHALL CONFORM TO STANDARD DETAIL DRAWING 15 D 33.



GROUND MOUNT CABINET INSTALLATION

OFFSET DISTANCES FOR TEMPORARY NON-BREAKAWAY POLES	
SPEED LIMIT	OFFSET DISTANCE**
GREATER THAN 45 MPH	18 FT
45 MPH OR LESS	12 FT
45 MPH OR LESS W/ CURBS	2 FT

**NOTE: OFFSET MEASURED FROM OUTER EDGE OF OUTSIDE THRU LANE.



PLAN VIEW

TYPICAL BRIDGE TEMPORARY TRAFFIC SIGNAL LOCATION

LEGEND

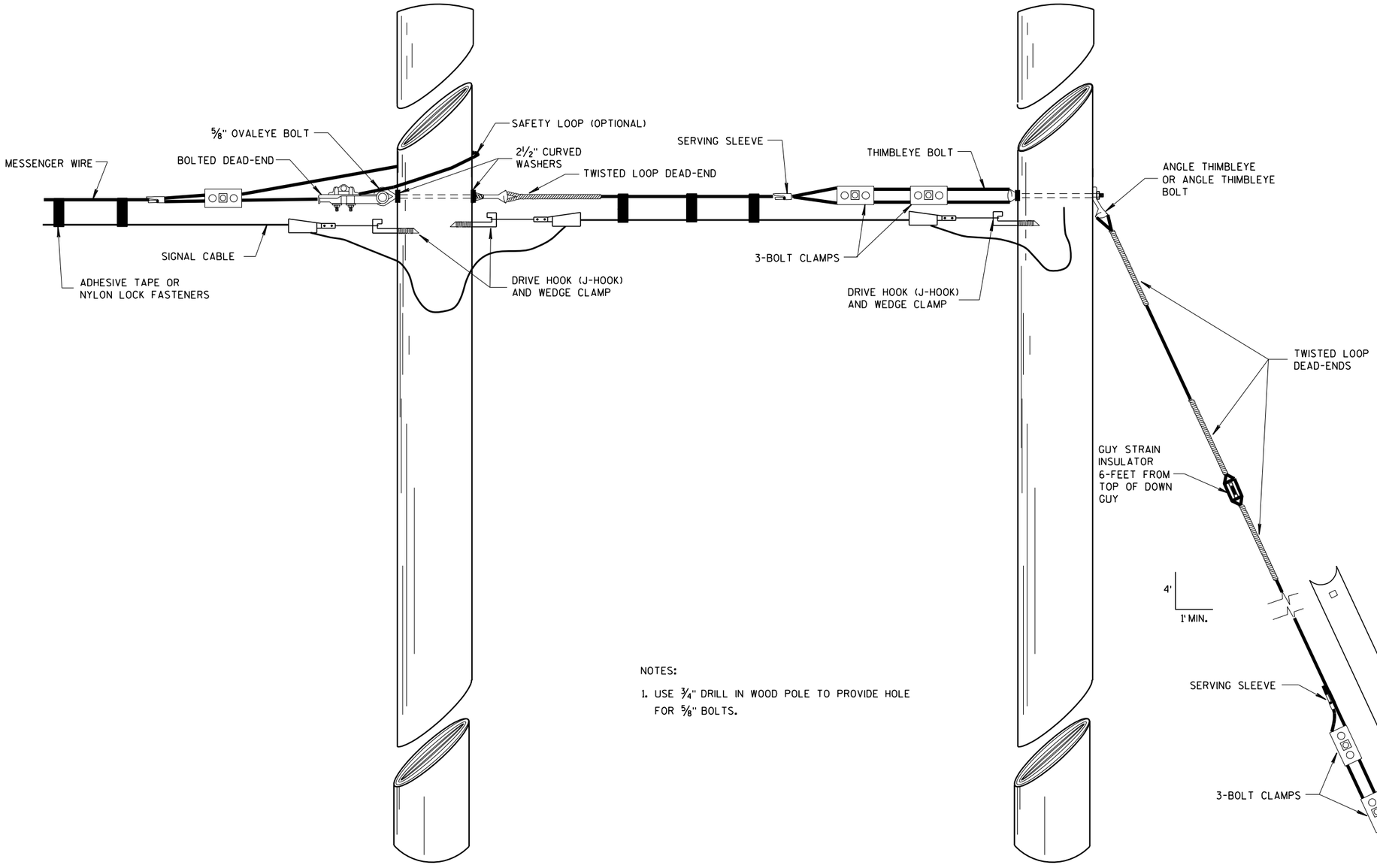
- WOOD POLE (NON-BREAKAWAY)
- WOOD POST (BREAKAWAY)
- SIGNAL CABLE
- SIGNAL CABLE W/MESSENGER
- LED TRAFFIC SIGNAL FACE WITH BACKPLATE (3-12")
- DIRECTION OF TRAFFIC

MINIMUM POLE LENGTHS	CLASS	MINIMUM BURIAL DEPTHS
25 FEET	V	5 FEET
30 FEET	V	6 FEET
35 FEET	IV	7 FEET
40 FEET	IV	8 FEET
45 FEET	IV	9 FEET

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICA
148
R
FHWA



SPAN WIRE POLE

GUY POLE

NOTES:

1. USE 3/4" DRILL IN WOOD POLE TO PROVIDE HOLE FOR 5/8" BOLTS.

TYPICAL DEAD-ENDINGS OR GUYING

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

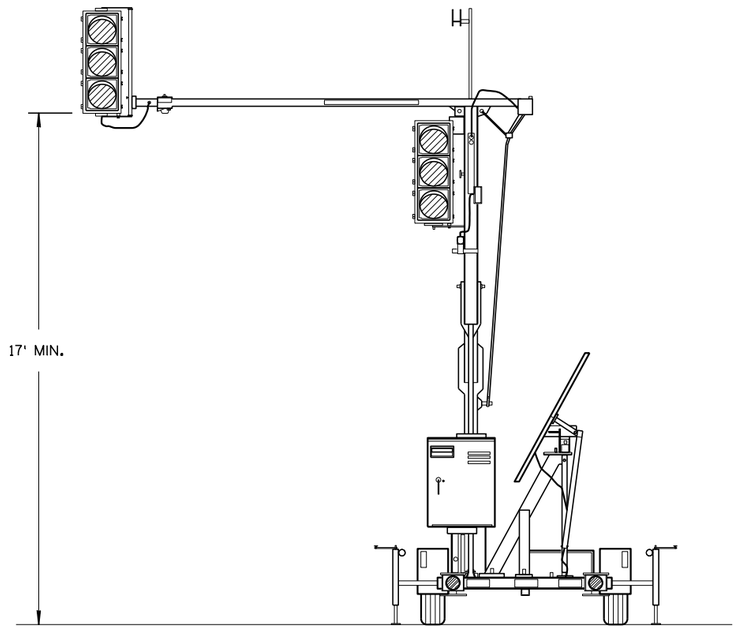
APPROVED
March 2018 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER
FHWA

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S.D.D. 9 G 2-5b

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S.D.D. 9 G 2-5b

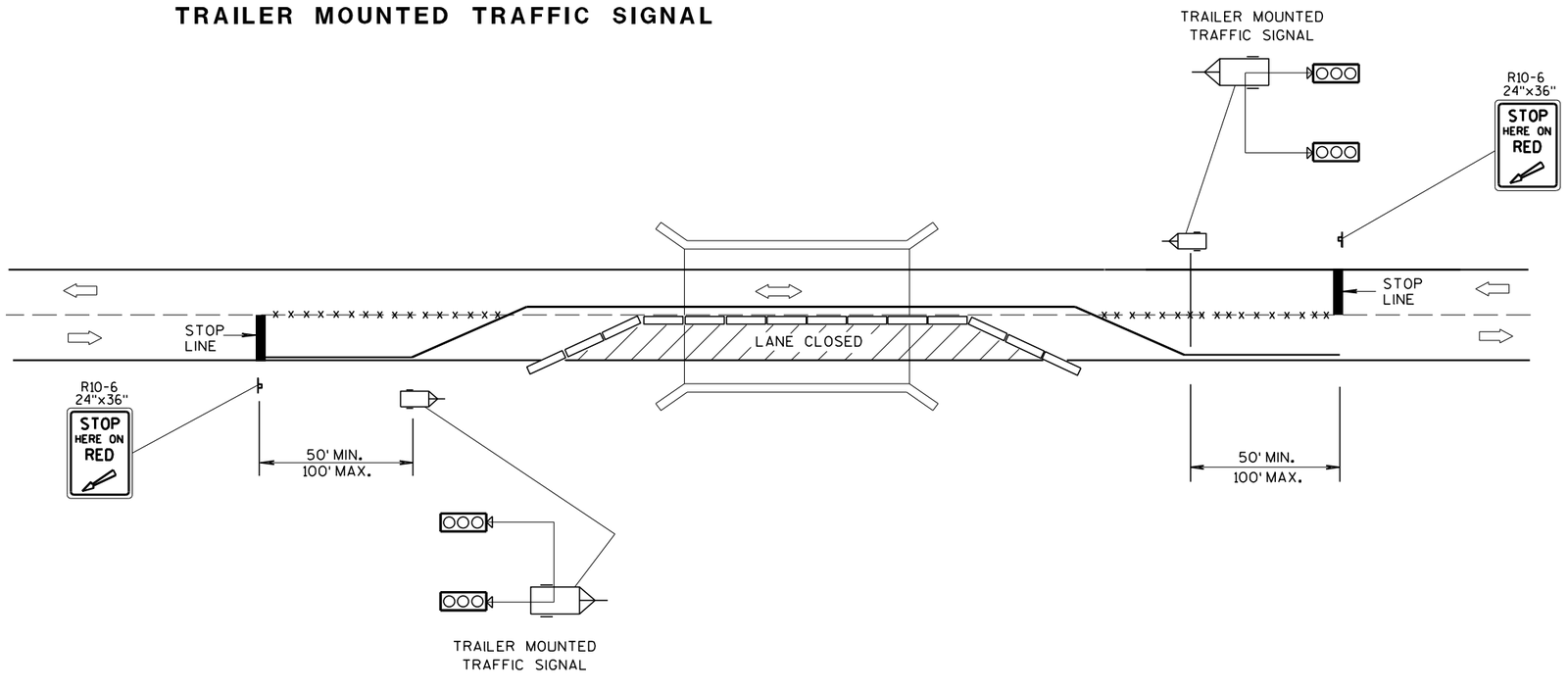


TRAILER MOUNTED TRAFFIC SIGNAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SIGNING, PAVEMENT MARKING AND LANE CONTROL REQUIREMENTS SHALL CONFORM TO STANDARD DETAIL DRAWING 15 D 33.



TYPICAL TRAILER MOUNTED TRAFFIC SIGNAL LOCATION

LEGEND

- POST MOUNTED SIGN
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- TRAILER MOUNTED TRAFFIC SIGNAL
- DIRECTION OF TRAFFIC FLOW

BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

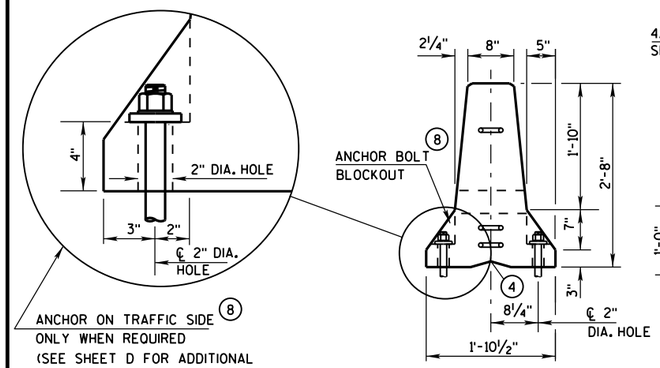
APPROVED
March 2018 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 150 R
FHWA

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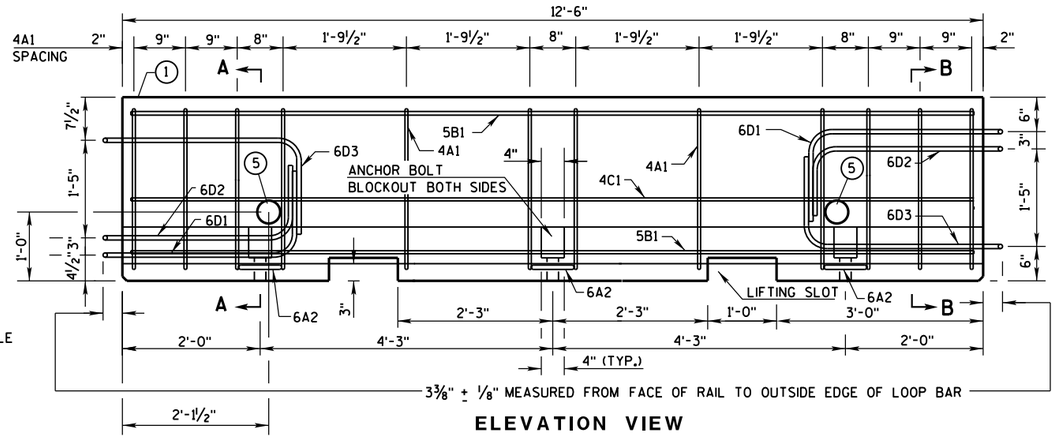
S.D.D. 9 G 2-5c

6

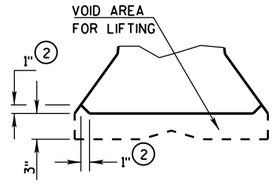
S.D.D. 9 G 2-5c



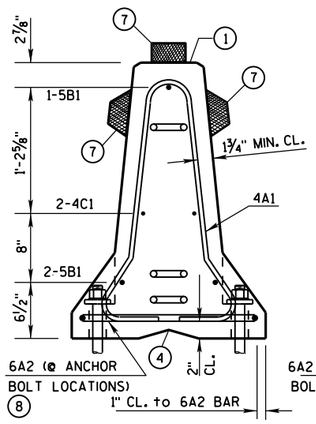
END VIEW



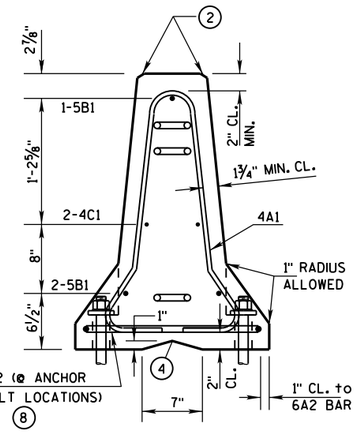
ELEVATION VIEW



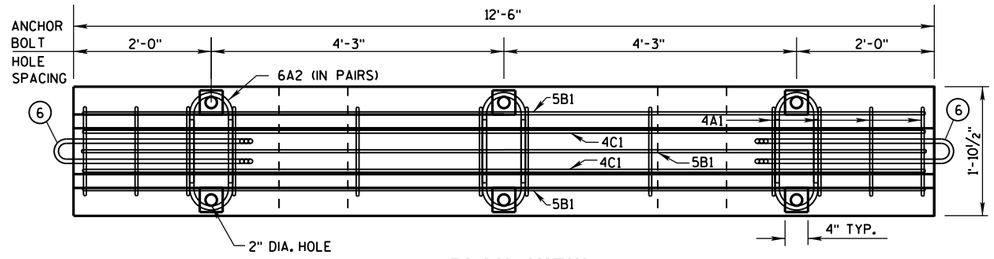
DETAIL "B"
LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)

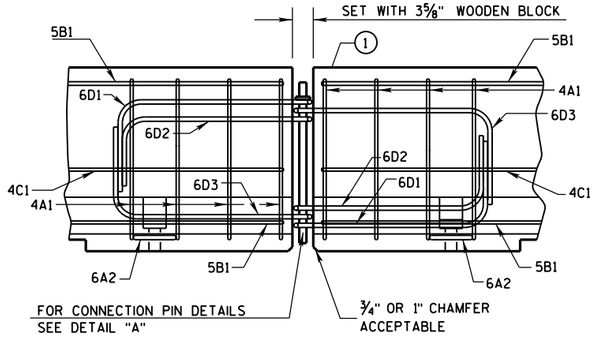


SECTION B-B
(STIRRUP PLACEMENT)

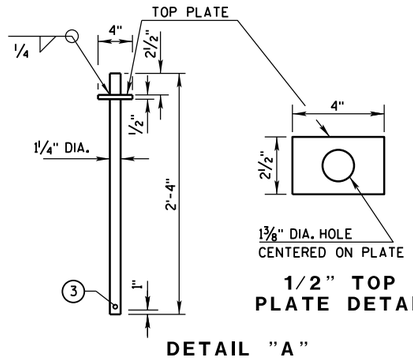


PLAN VIEW

DETAILS OF BARRIER SECTION

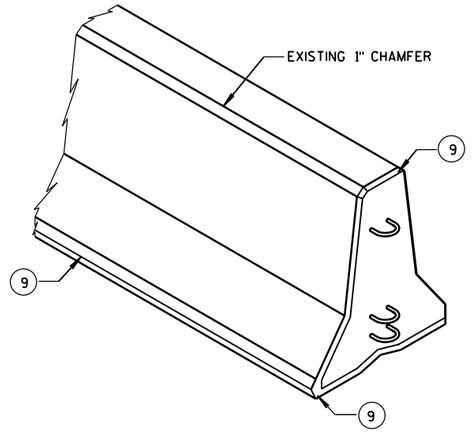


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

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 ADHESIVE 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 HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

(9) 1" CHAMFER OPTIONAL.

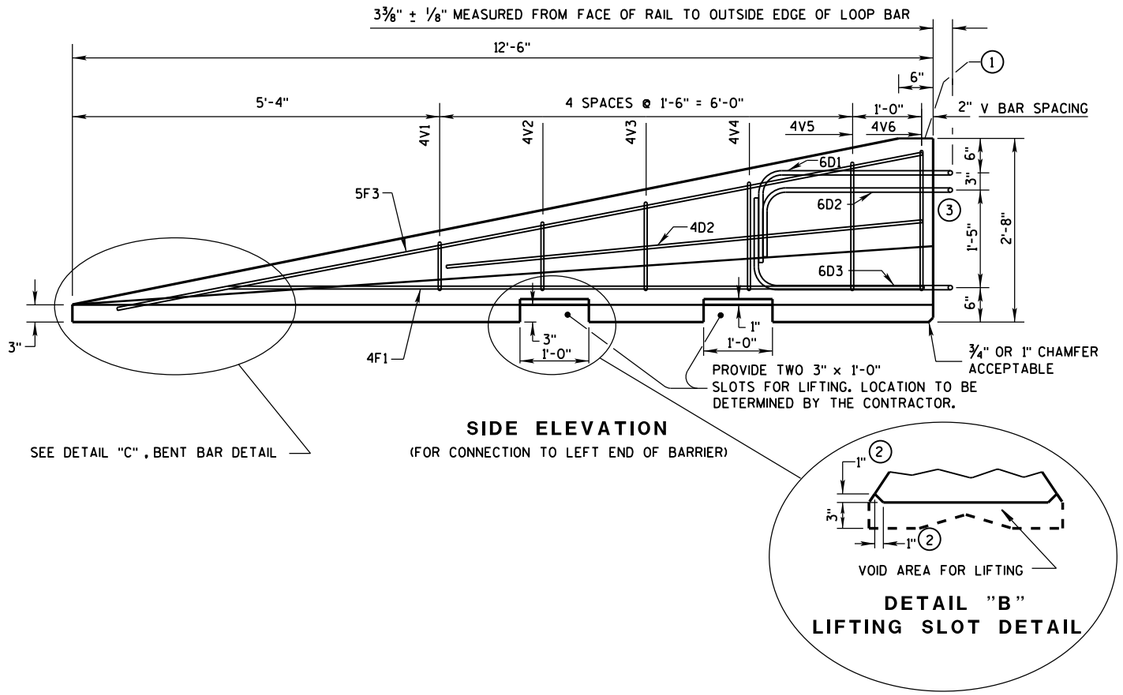
f'c = 4,000 psi

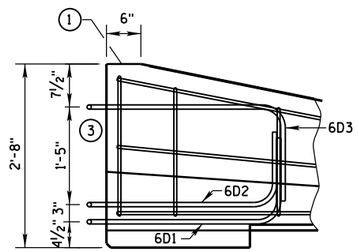
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

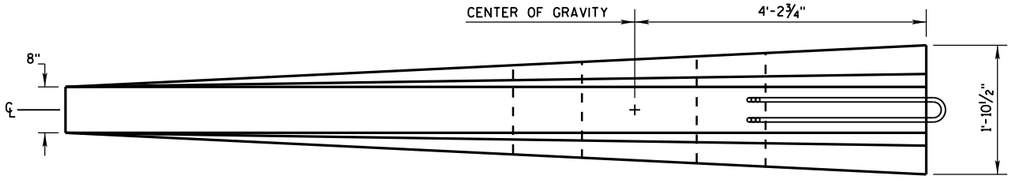
S.D.D. 14 B 7-15a

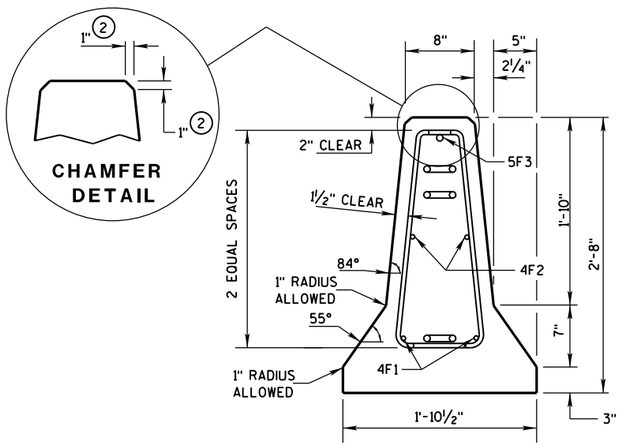


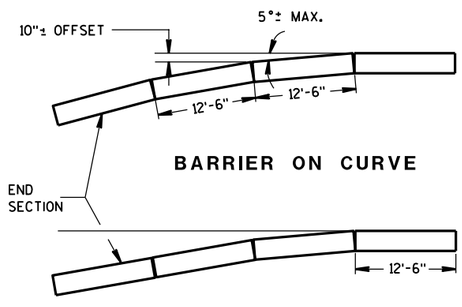


GENERAL NOTES

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"

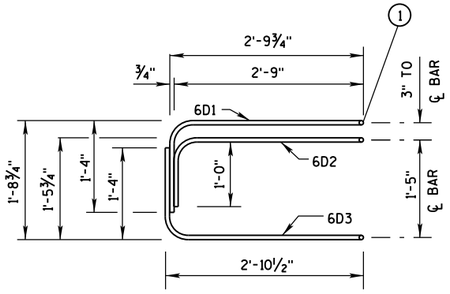
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15b

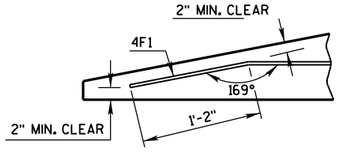
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

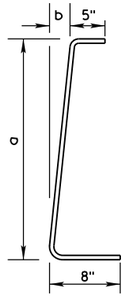
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



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

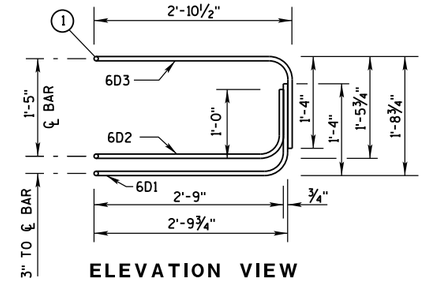
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

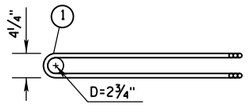
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

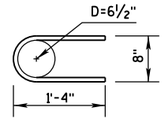
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



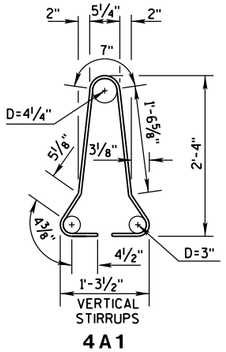
ELEVATION VIEW



PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



4A1

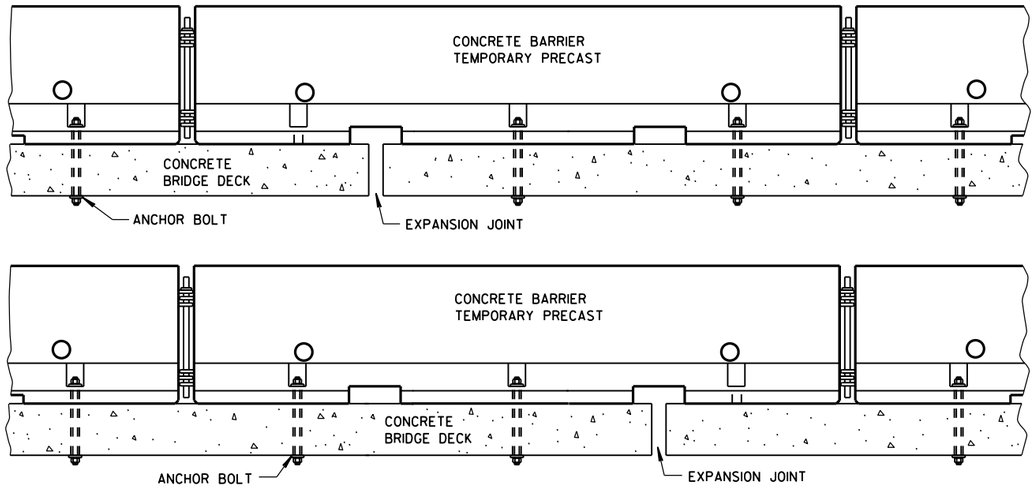
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

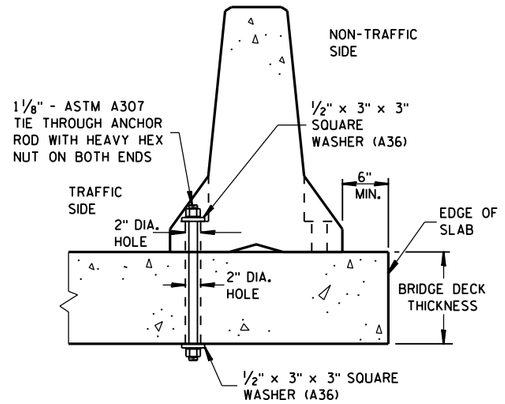
6

S.D.D. 14 B 7-15c



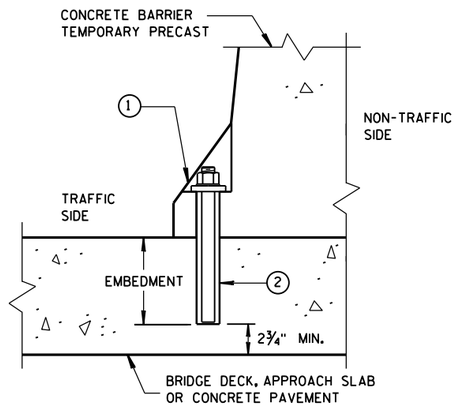
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(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 ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

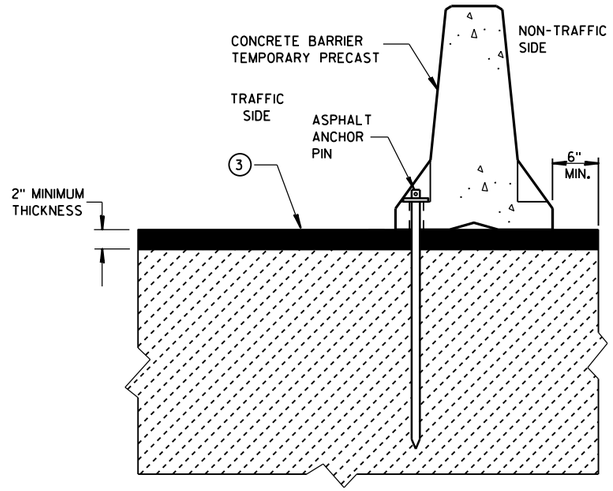
(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

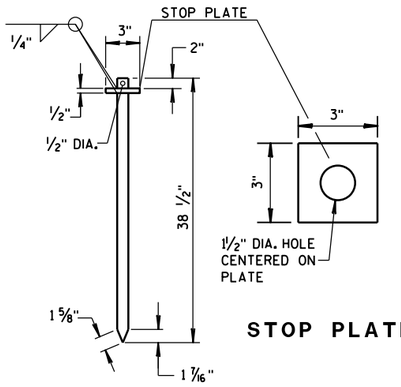
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

1. 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.
2. 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.
3. ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



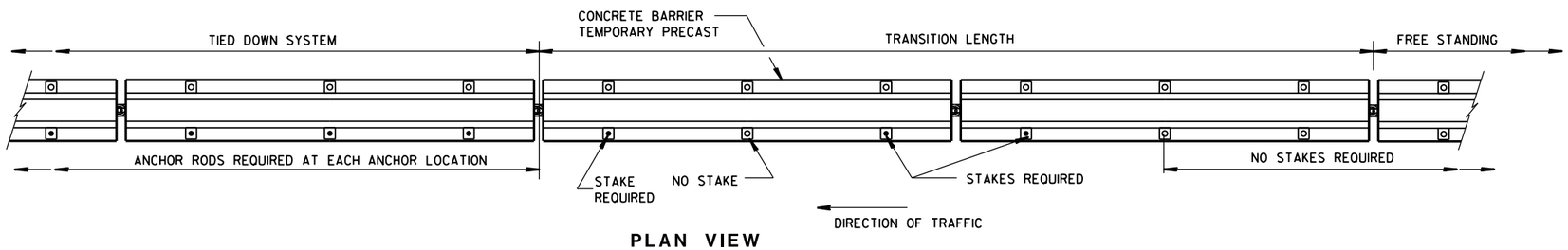
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

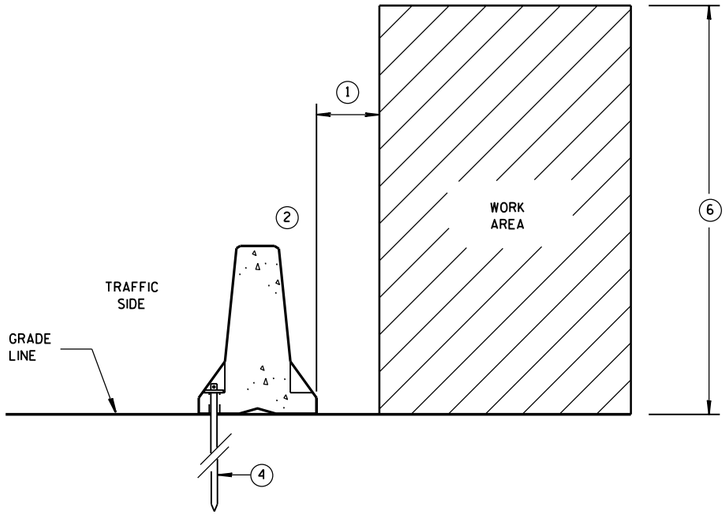
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

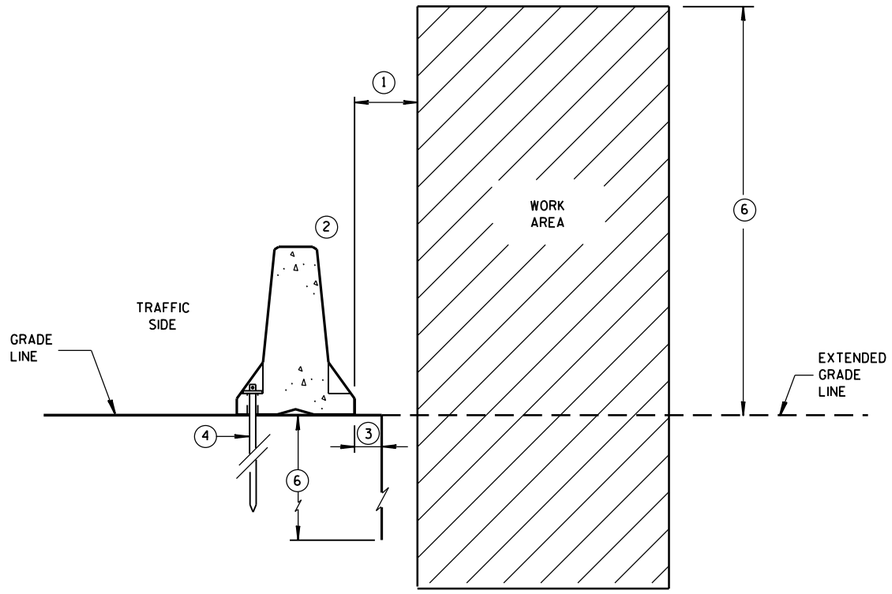
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15d



ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

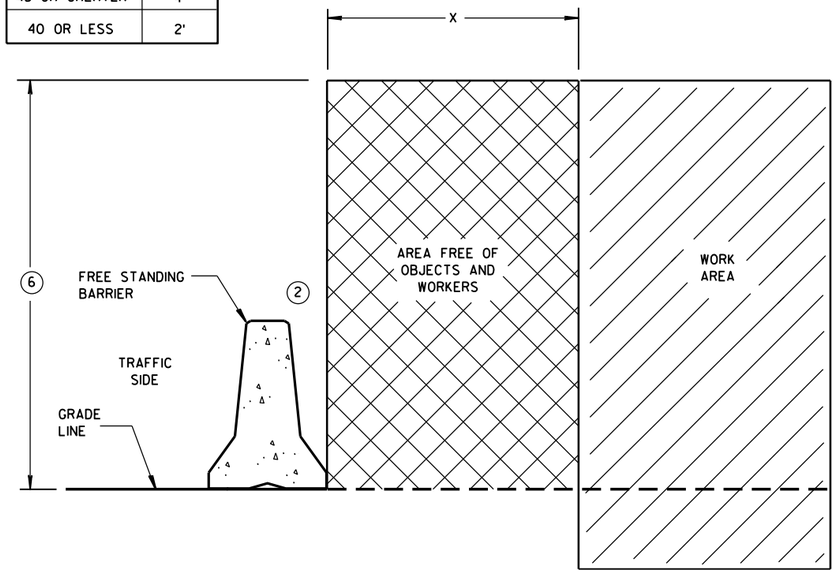


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

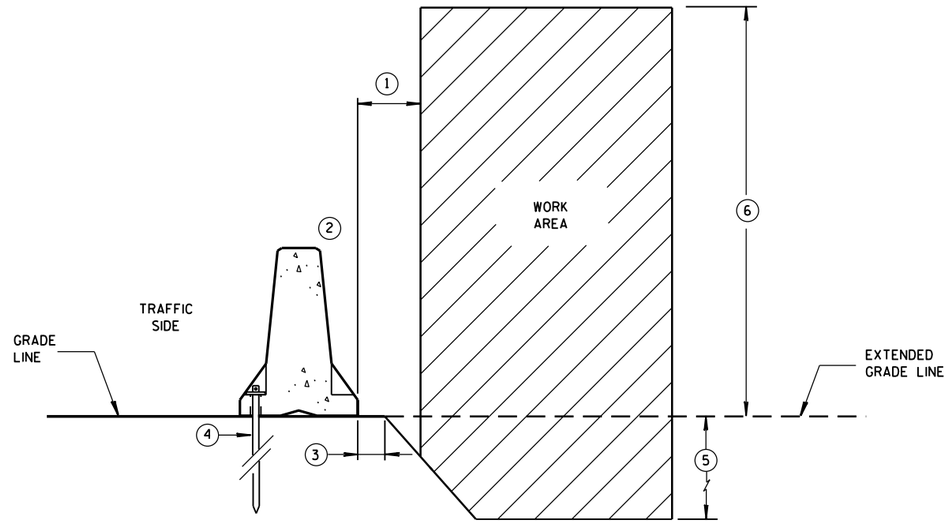
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



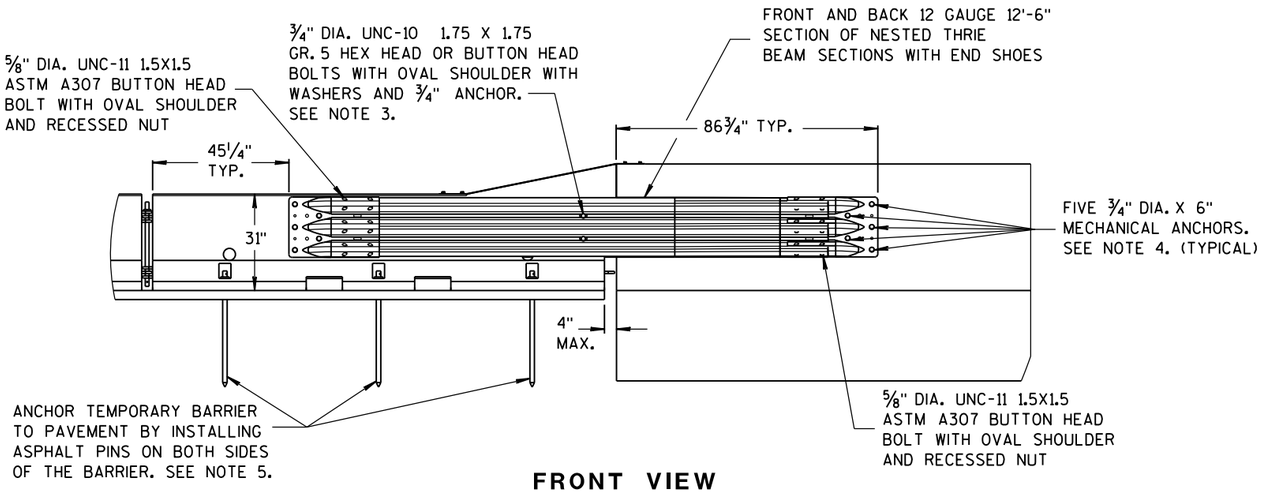
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

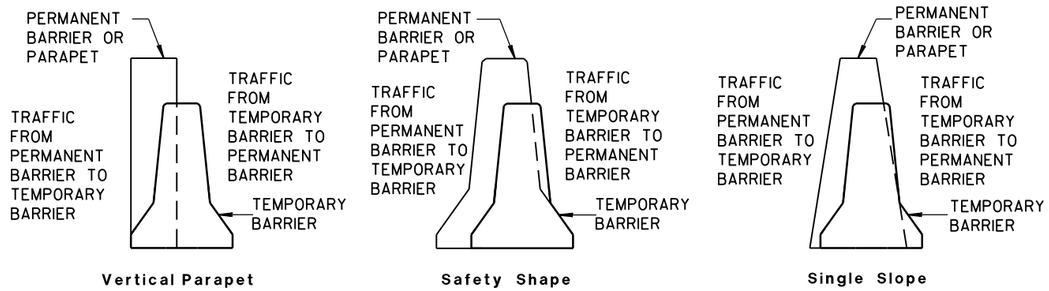
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-15e



FRONT VIEW

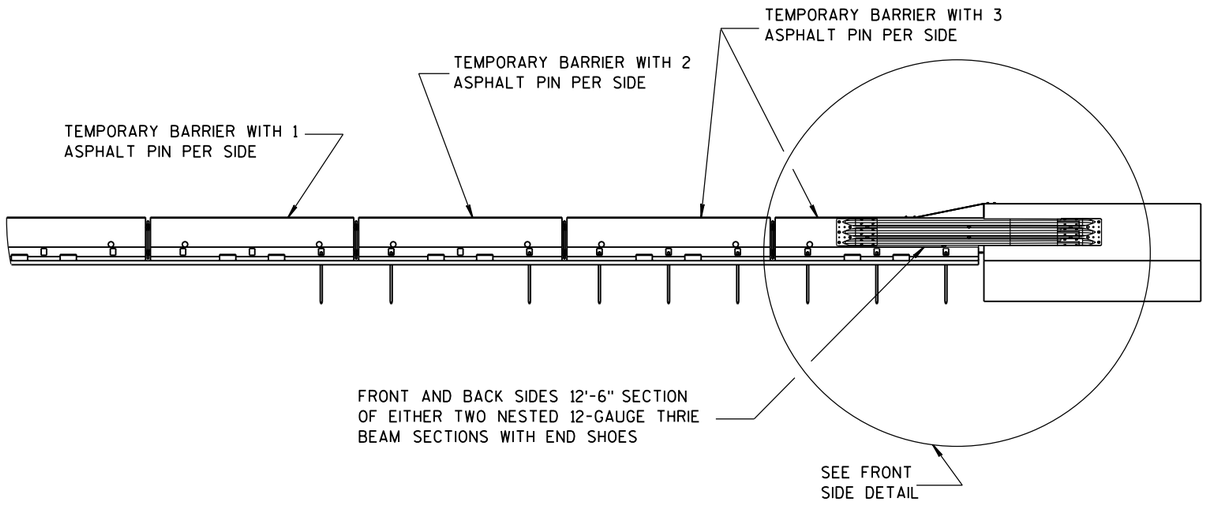


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

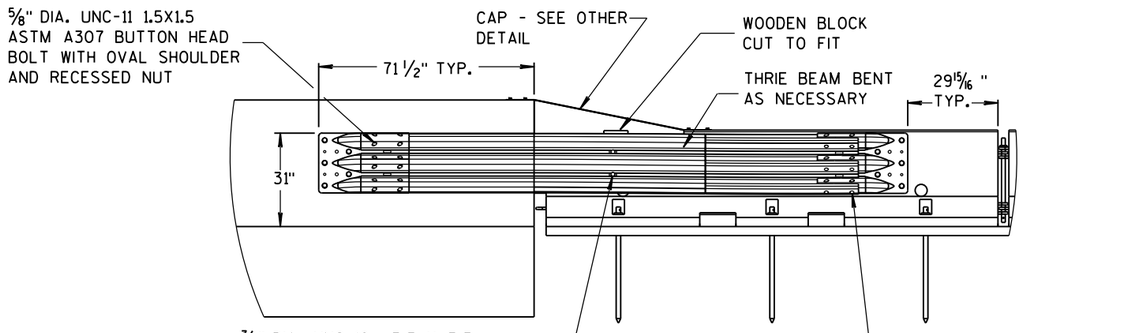
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS REGARDLESS OF TRAFFIC.

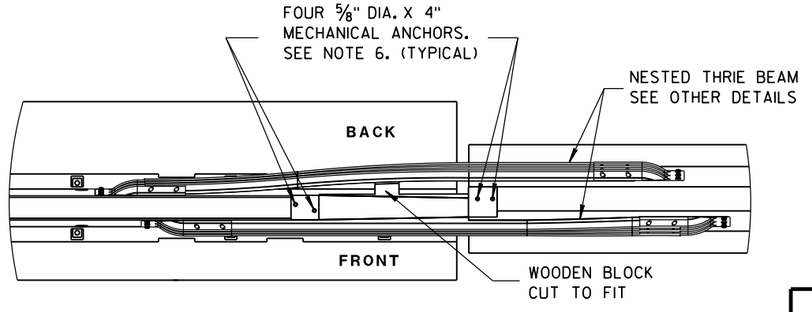
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE 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 ADHESIVE 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

6

S.D.D. 14 B 7-15f

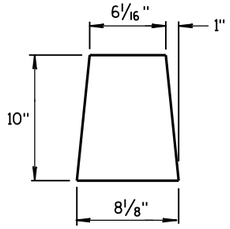
GUSSET 1

GUSSET 2

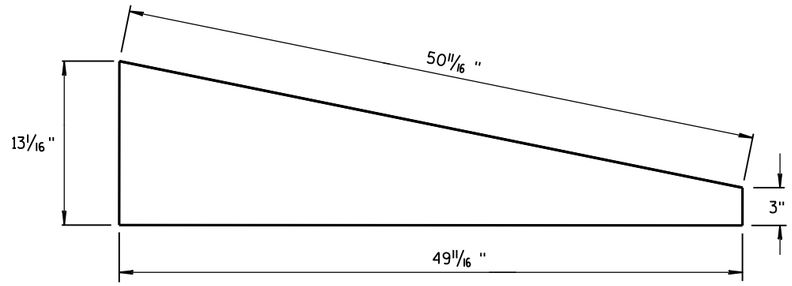
GUSSET 3

GUSSET 4

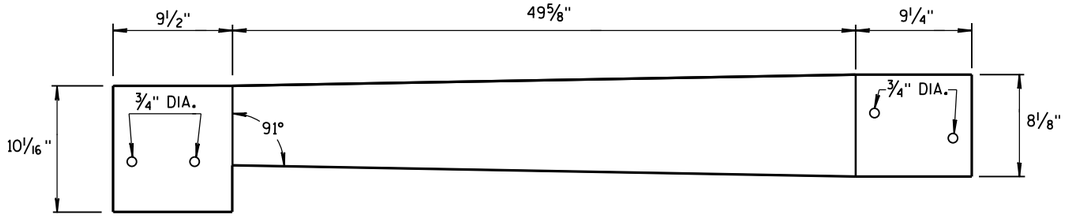
GUSSETS

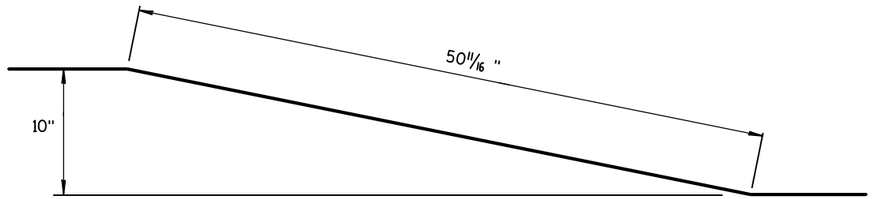


END PLATE

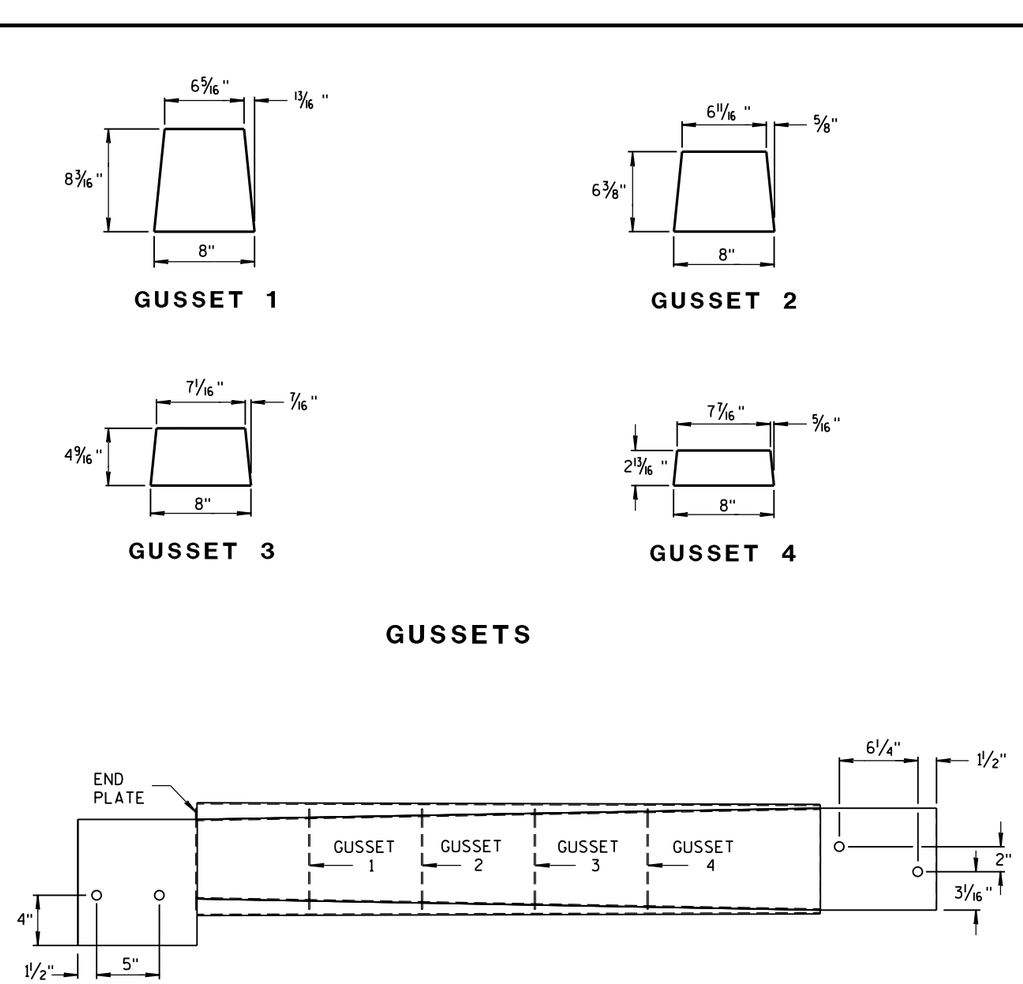


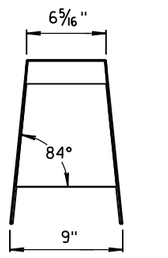
SIDE PLATE





TOP PLATE





SECTION C-C

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.

NOTES

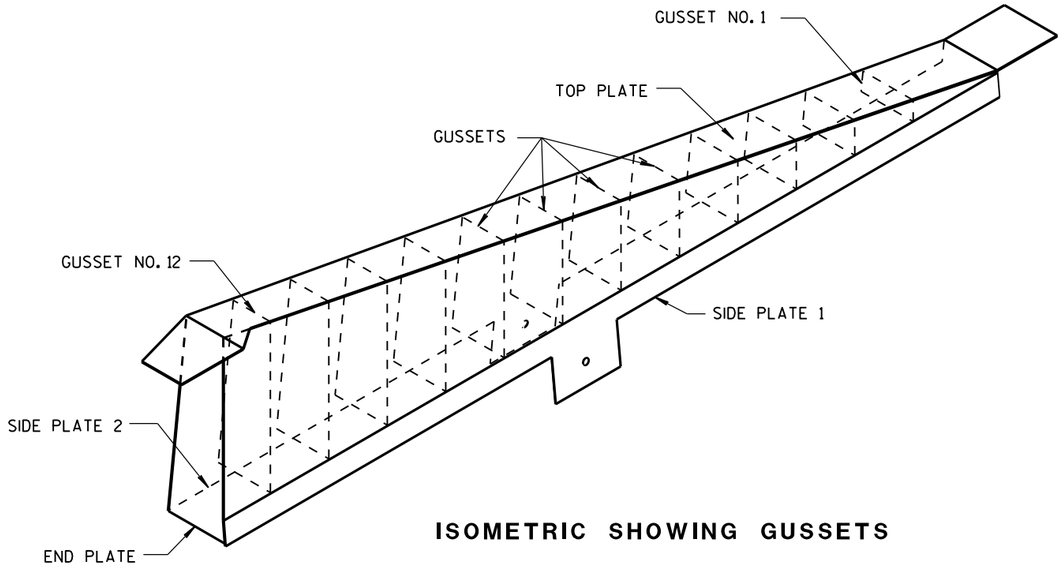
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

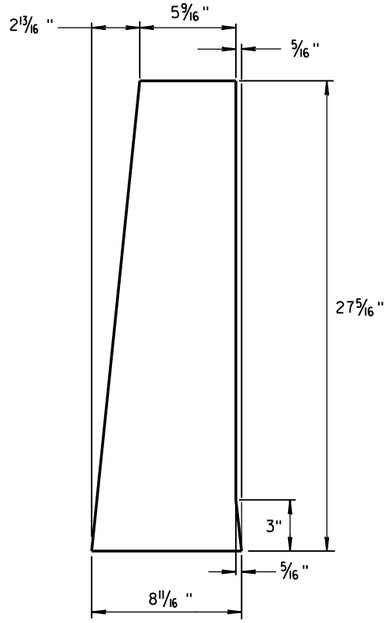
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15g

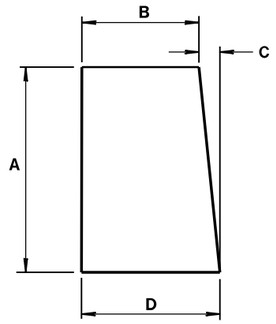


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



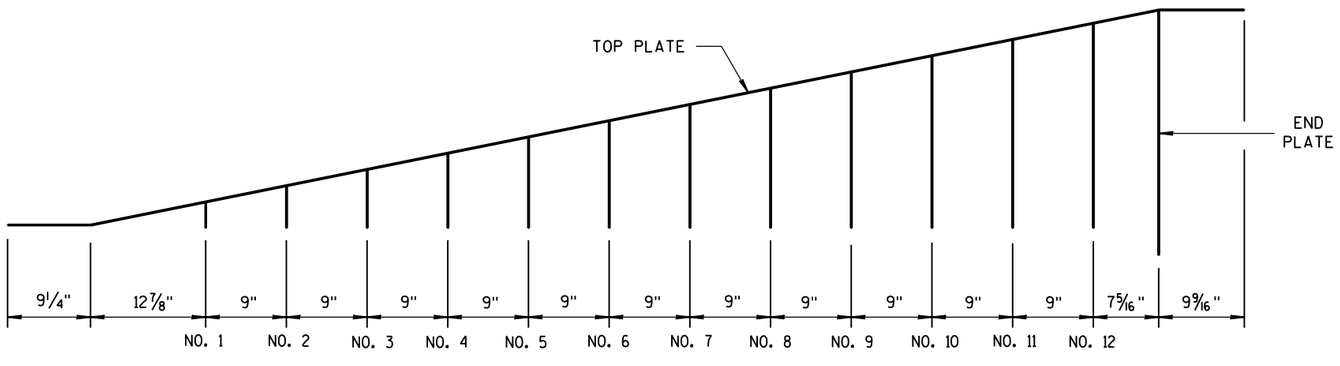
GUSSETS 1 - 12

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.



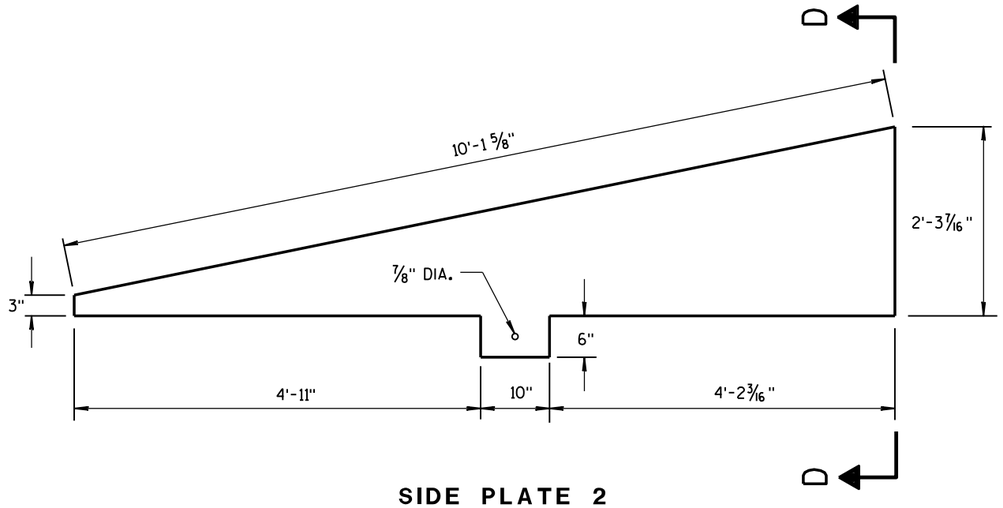
GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

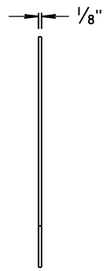
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

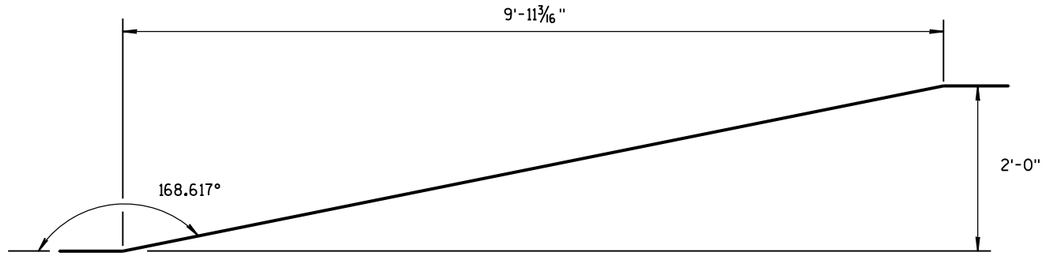
6
S.D.D. 14 B 7-15h



SIDE PLATE 2

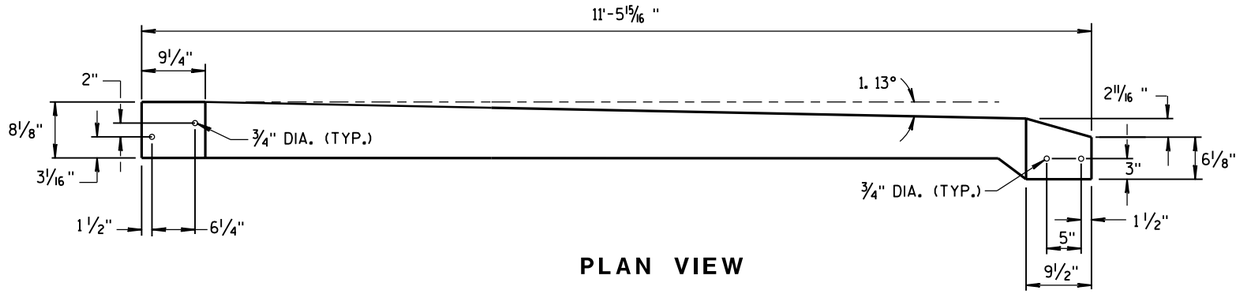


END VIEW



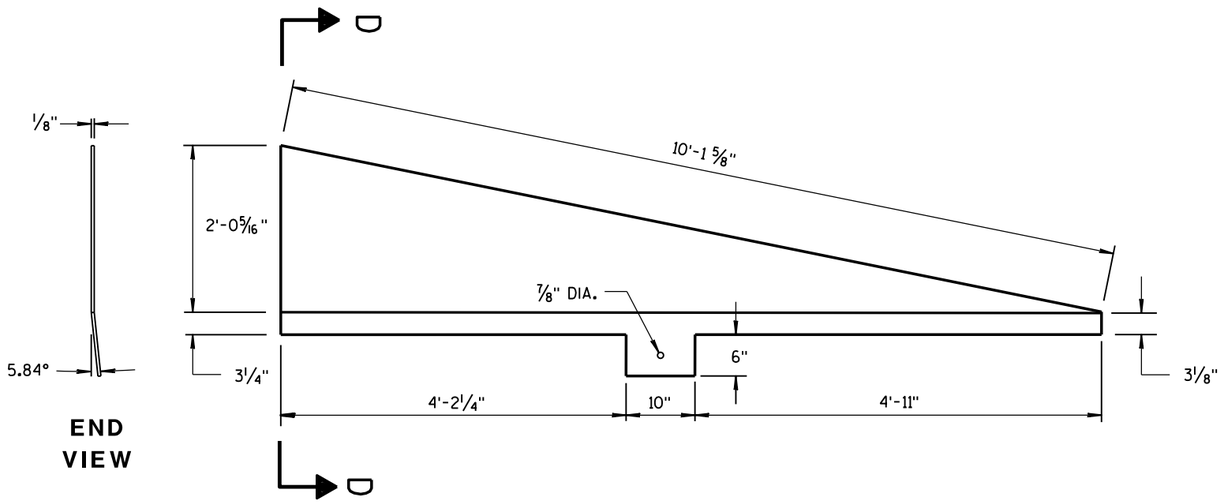
SIDE VIEW

TOP PLATE



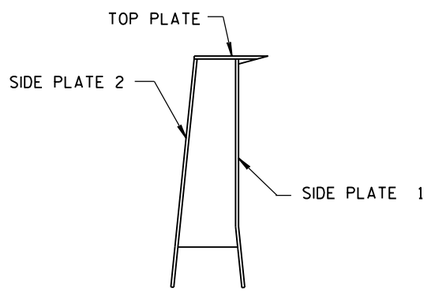
PLAN VIEW

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 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV

FHWA

ENT

6

S.D.D. 14 B 7-15i

6

S.D.D. 14 B 7-15i

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.

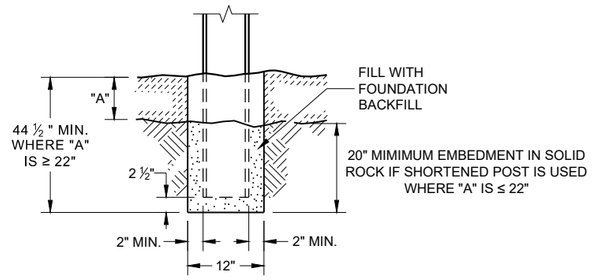
3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS 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).

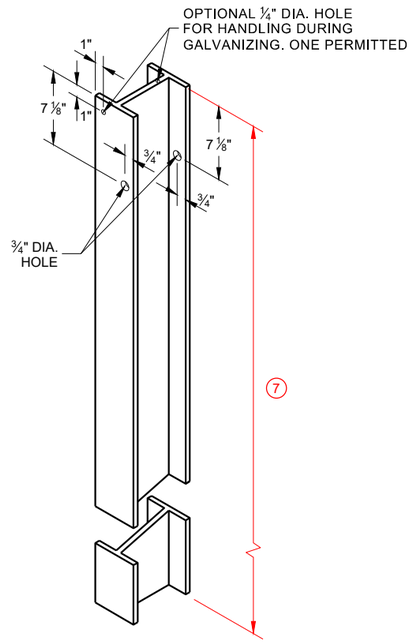
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

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.

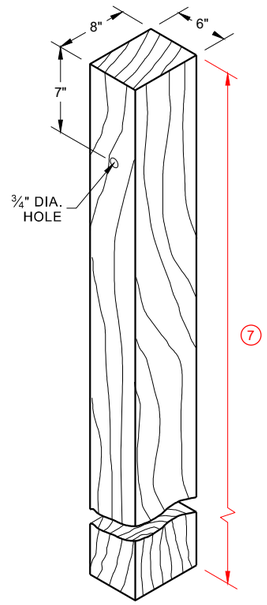
7. TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



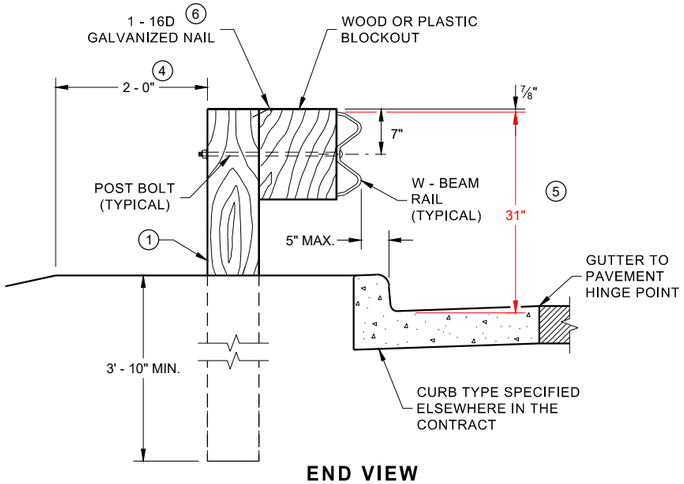
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



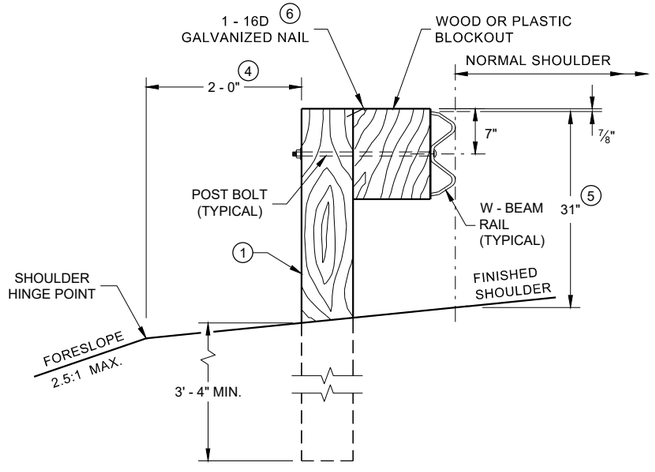
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



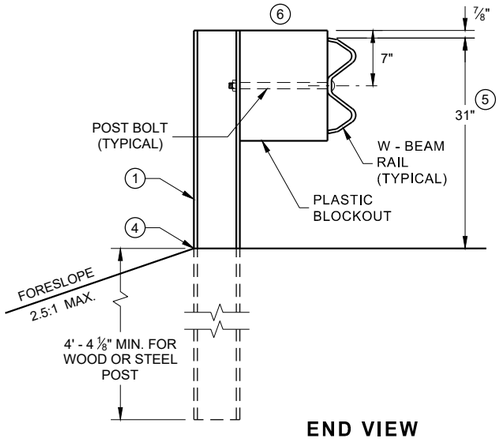
WOOD POST (6" X 8") NOMINAL (1)



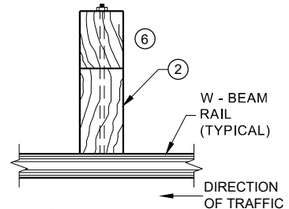
END VIEW
LOCATED ALONG A CURBED ROADWAY



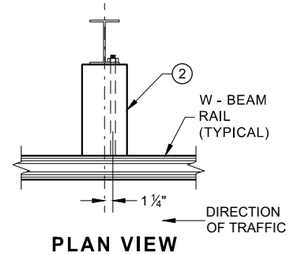
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



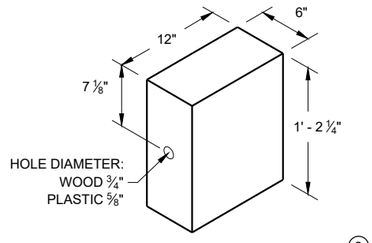
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



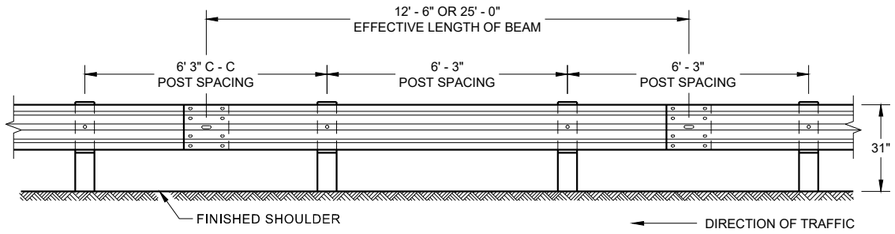
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

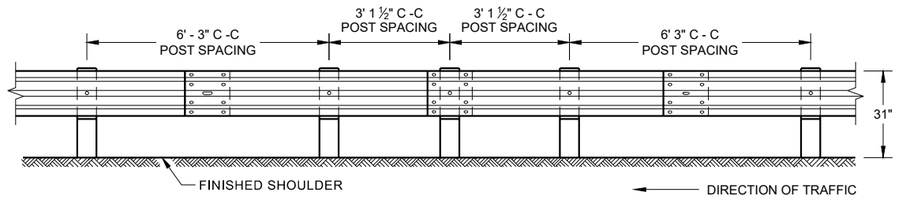
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 06a

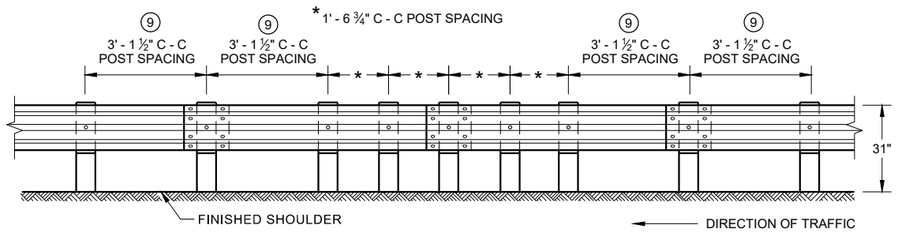
SDD 14B42 - 06a



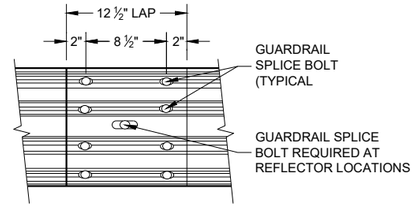
FRONT VIEW
POST SPACING STANDARD INSTALLATION



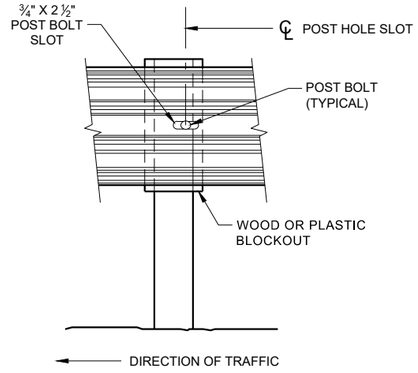
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



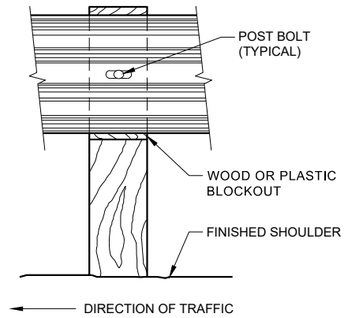
FRONT VIEW
QUARTER POST SPACING (QS)



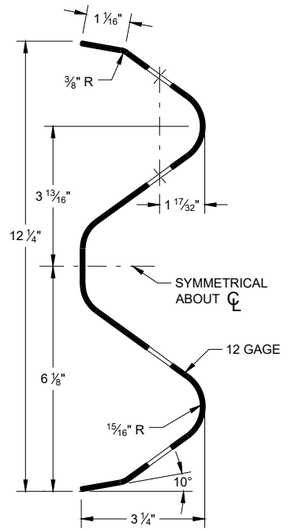
FRONT VIEW
MID-SPAN BEAM SPLICE



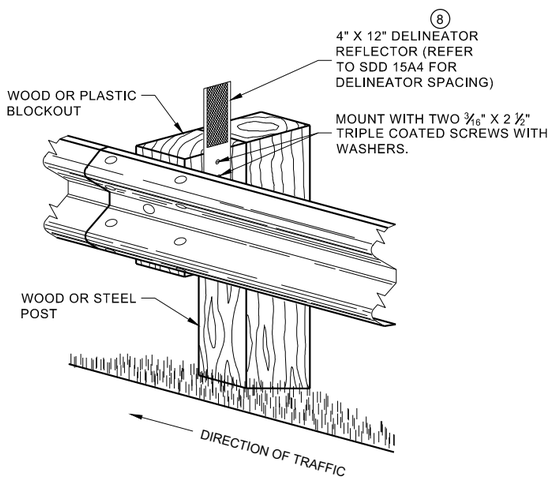
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

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

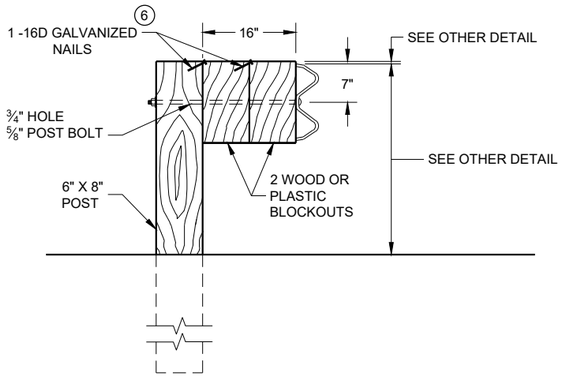
POST BOLTS ARE A ¾" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B42 - 06b

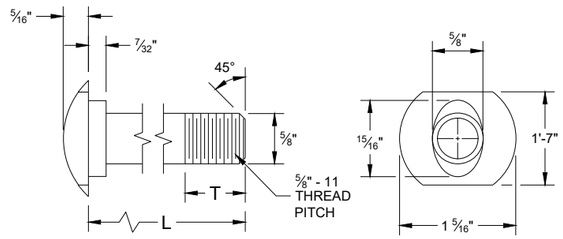


DETAIL FOR 16" BLOCKOUT DEPTH

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.

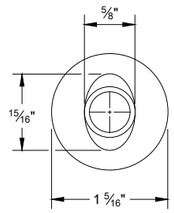
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

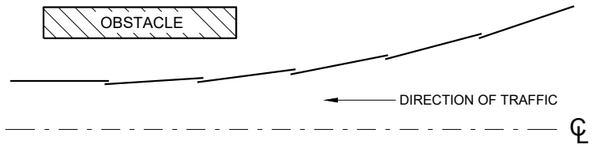


POST BOLT TABLE

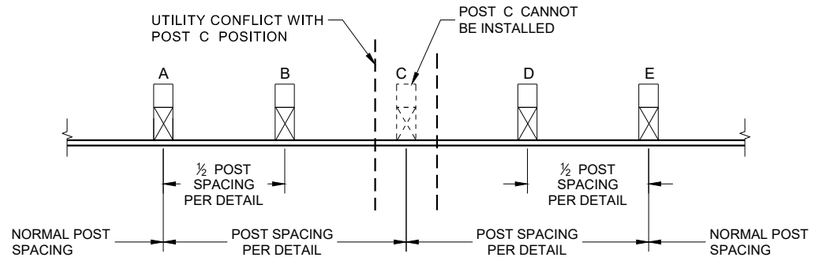
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



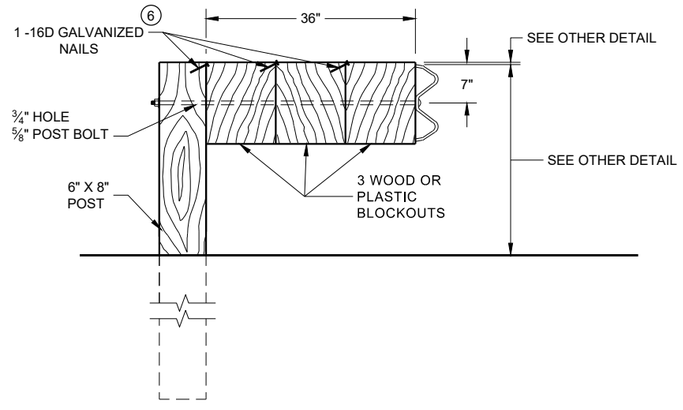
ALTERNATE BOLT HEAD



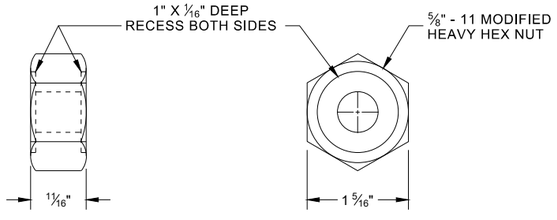
PLAN VIEW
BEAM LAPPING DETAIL



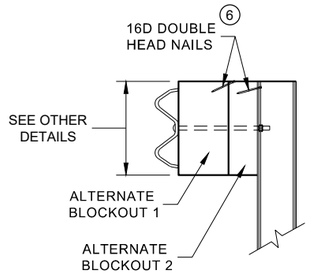
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



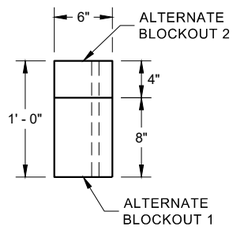
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

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.

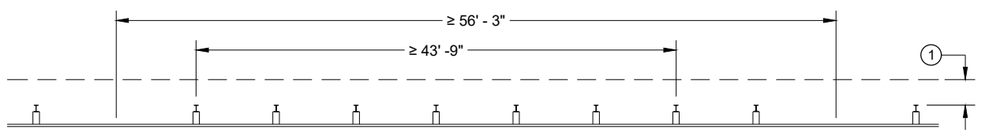
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

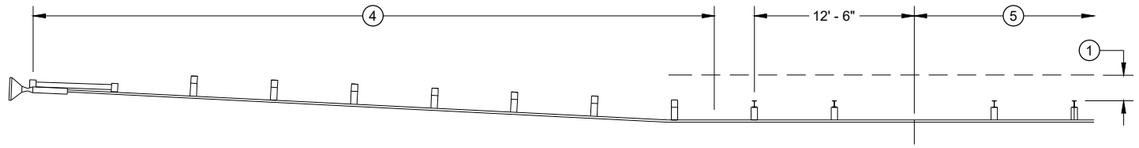
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DEPARTMENT OF TRANSPORTA

6

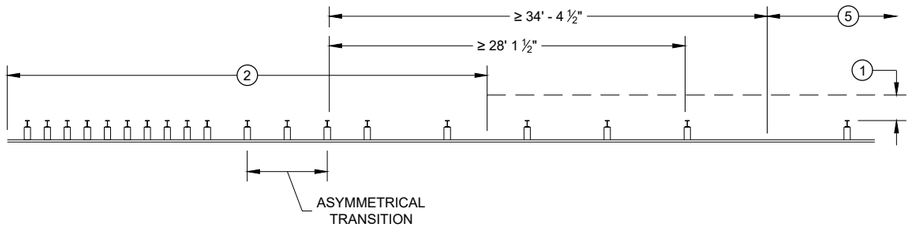
SDD 14B42 - 06c



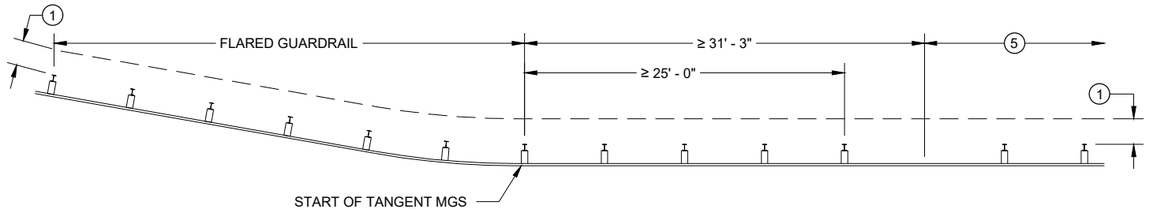
MISSING POST IN NORMAL BEAM GUARD RUN



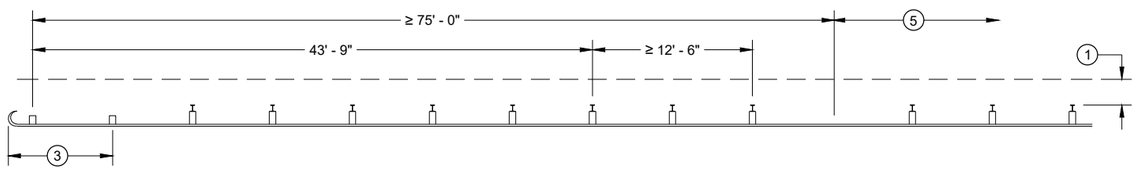
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



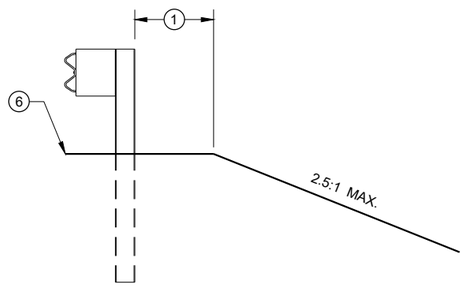
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
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APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

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SDD 14B42 - 06d

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 MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

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

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

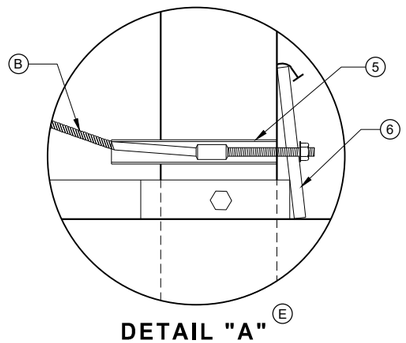
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

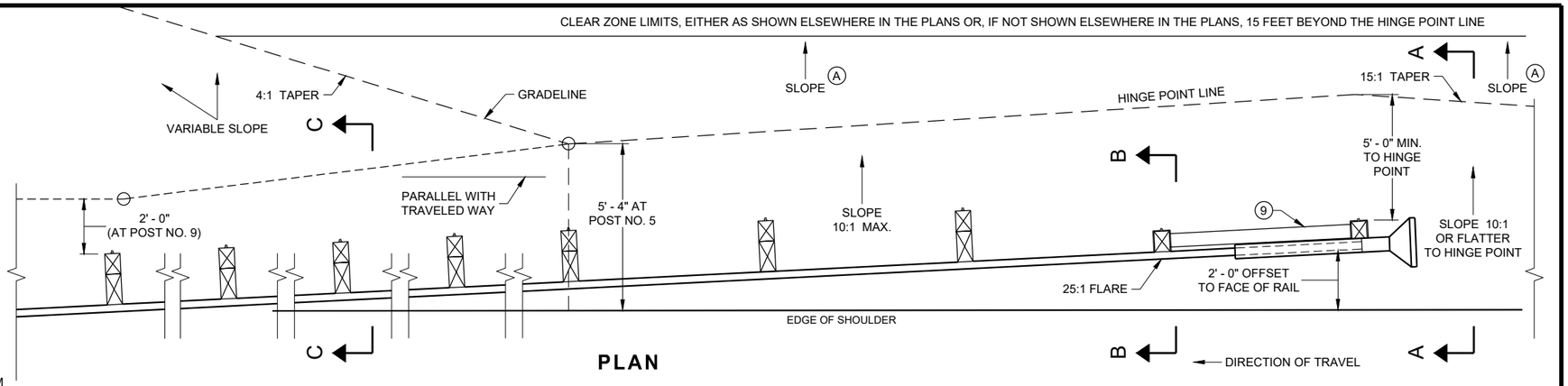
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

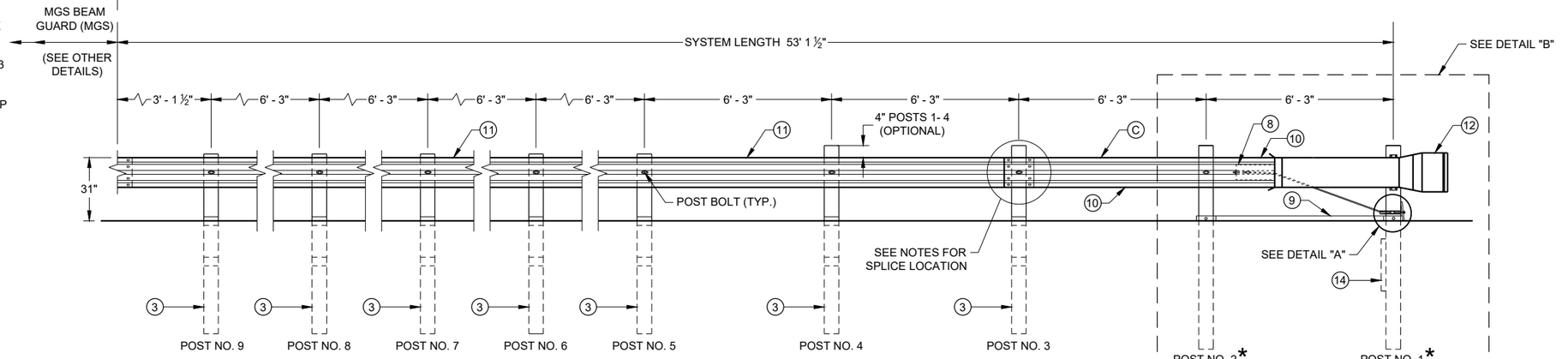
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



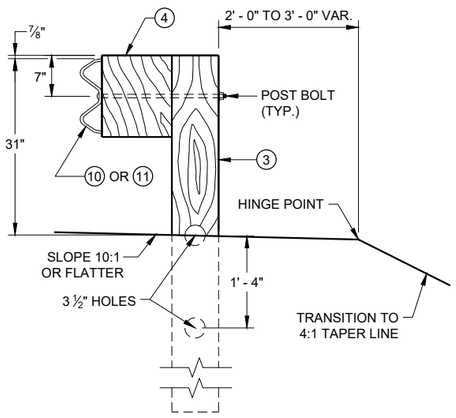
DETAIL "A" (E)



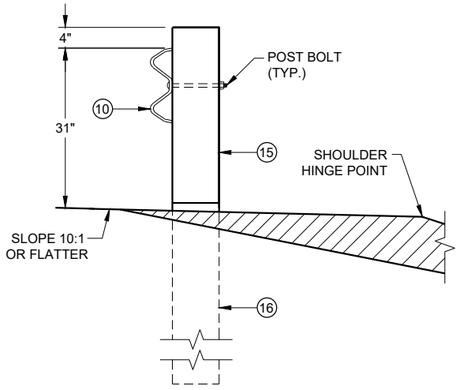
PLAN



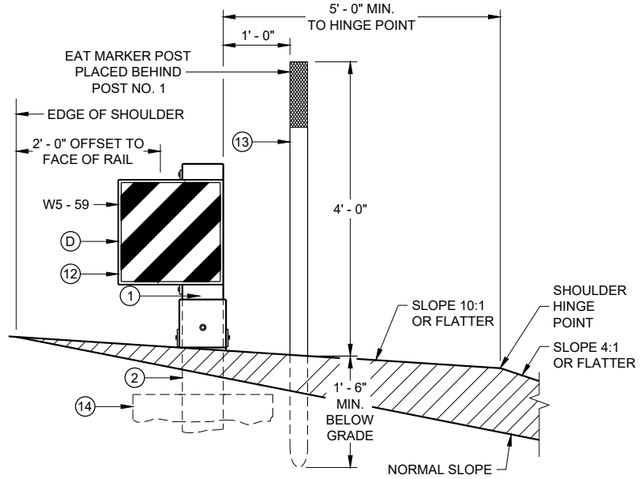
ELEVATION



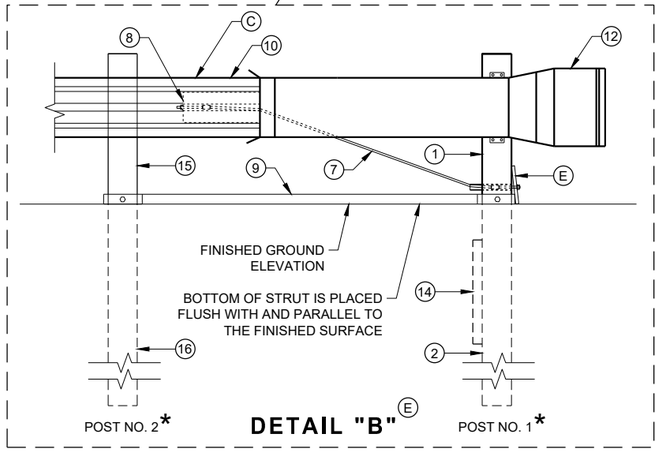
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



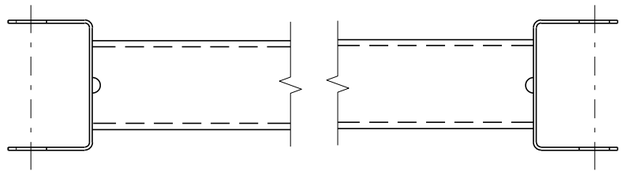
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
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SDD 14B44 - 04a

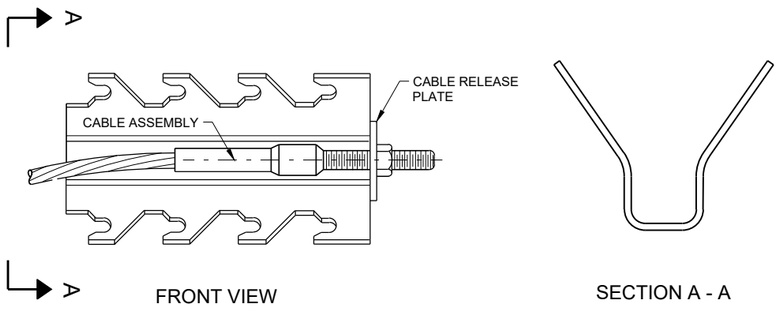
SDD 14B44 - 04a



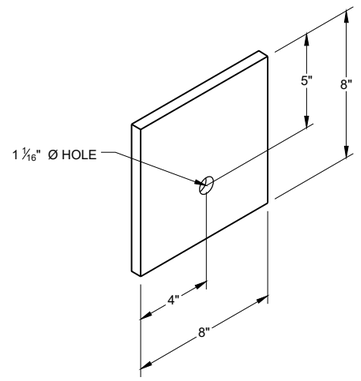
GENERIC GROUND STRUT (9) (E)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
(1)	UPPER POST NO. 1 6" X 6" TUBE
(2)	LOWER POST NO. 1
(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)	IMPACT HEAD
(13)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
(14)	SOIL PLATE
(15)	UPPER POST NO. 2
(16)	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX (9) (E)



BEARING PLATE (6) (E)

6

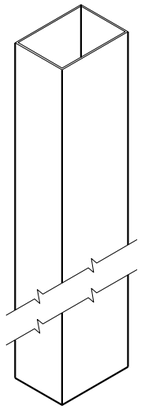
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SDD 14B44 - 04b

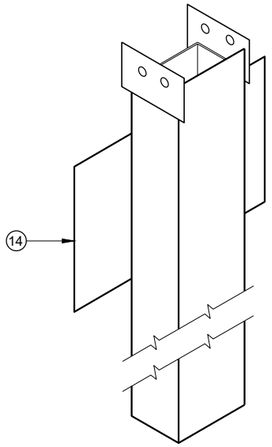
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

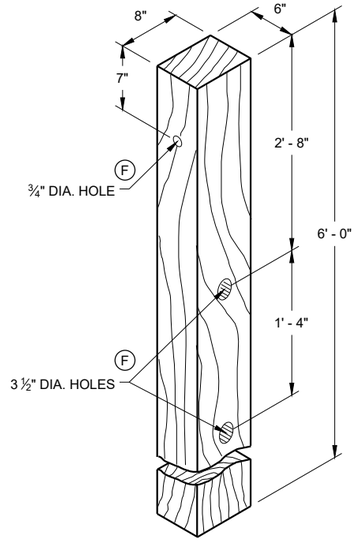
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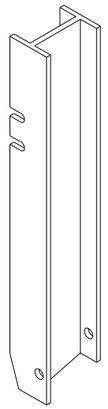
UPPER POST NO. 1 (1) (E)



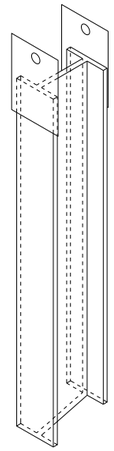
LOWER POST NO. 1 (2) (E)



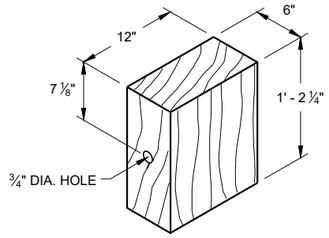
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



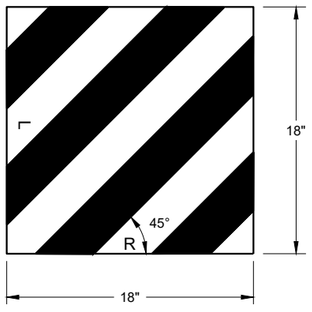
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

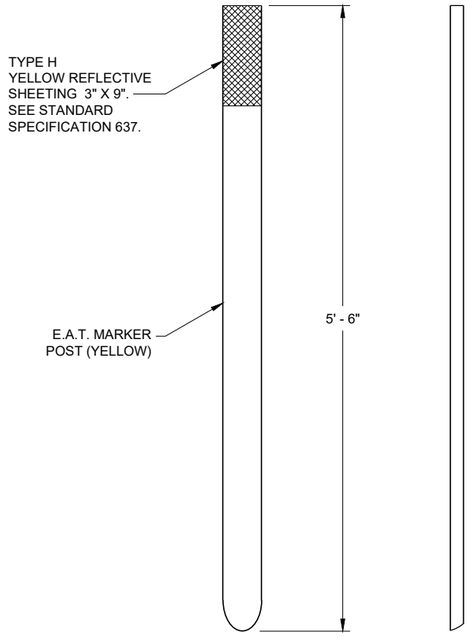


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



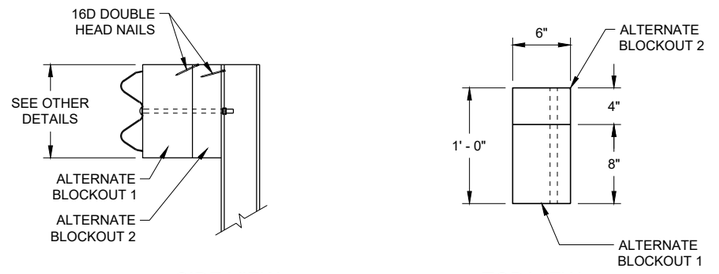
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

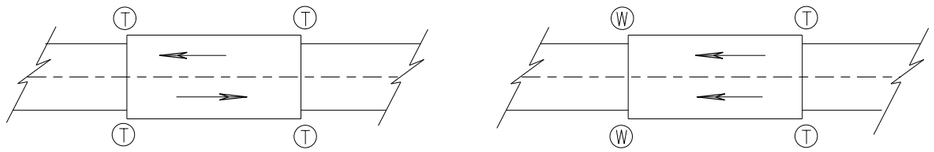
STATE OF WISCONSIN
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APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

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SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

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

GENERAL NOTES

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

TRANSITION USES STEEL POSTS ONLY.

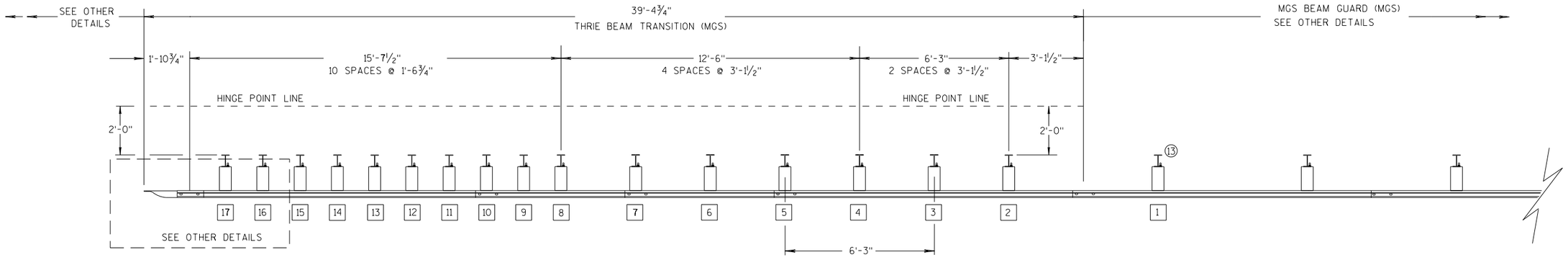
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

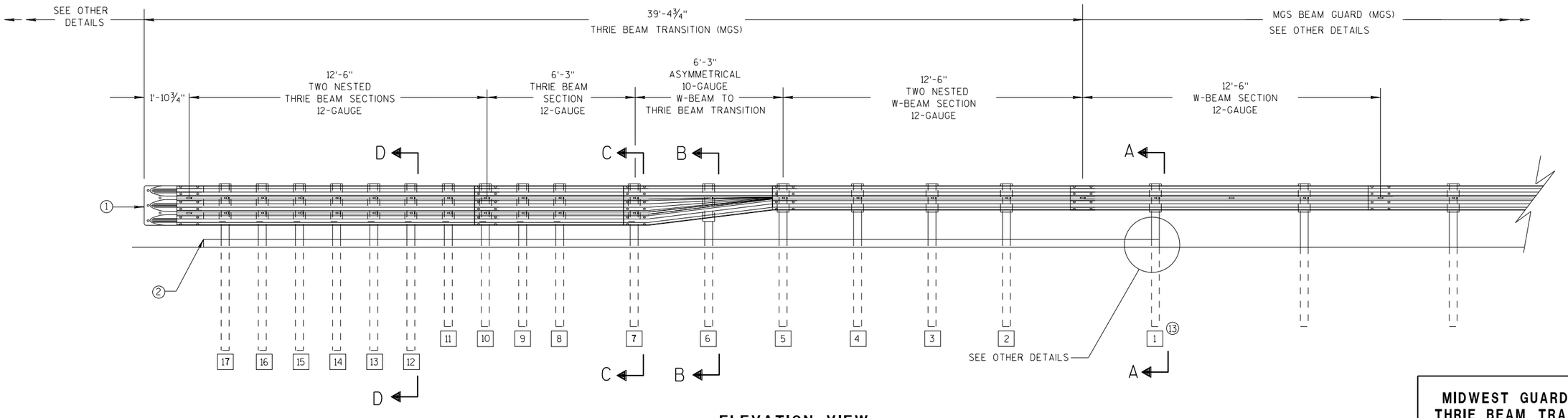
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

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

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 45-5a

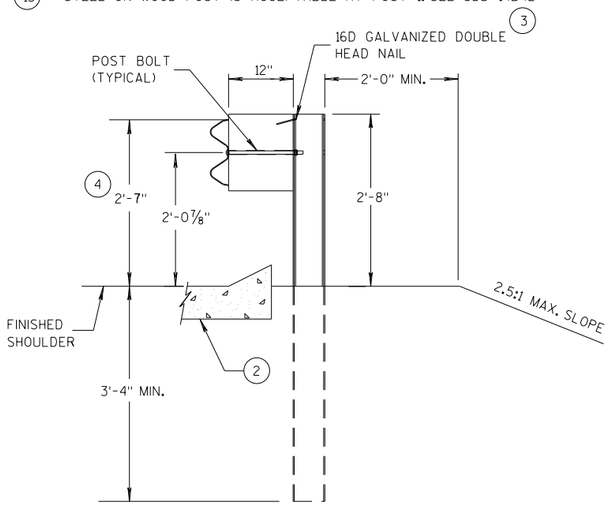
GENERAL NOTES

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

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

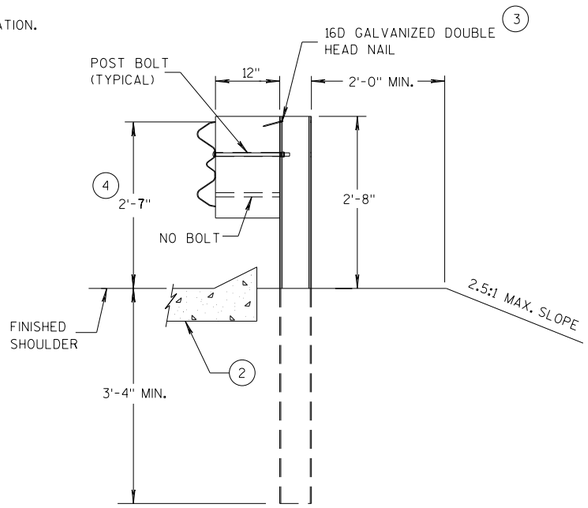
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



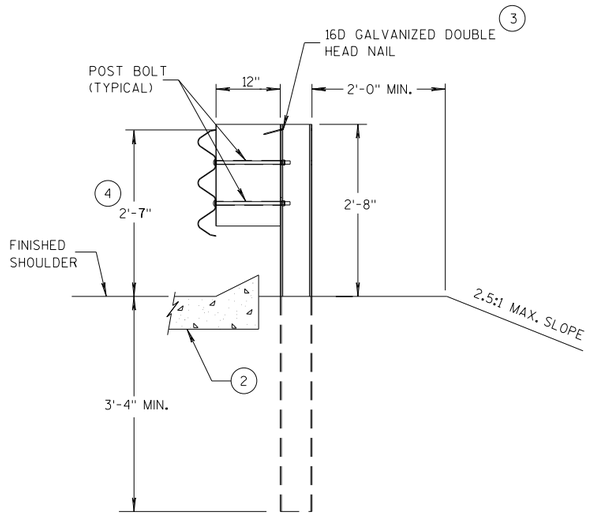
SECTION A-A (13)

POSTS 1-5



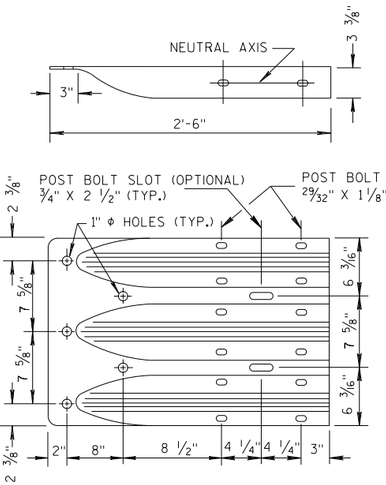
SECTION B-B

POST 6

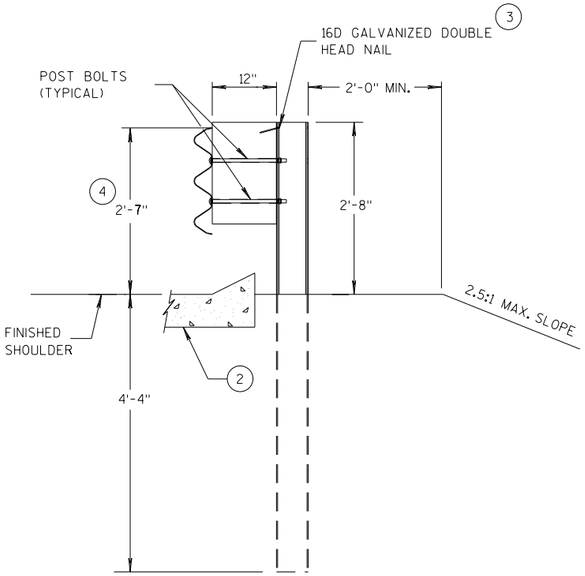


SECTION C-C

POSTS 7-11

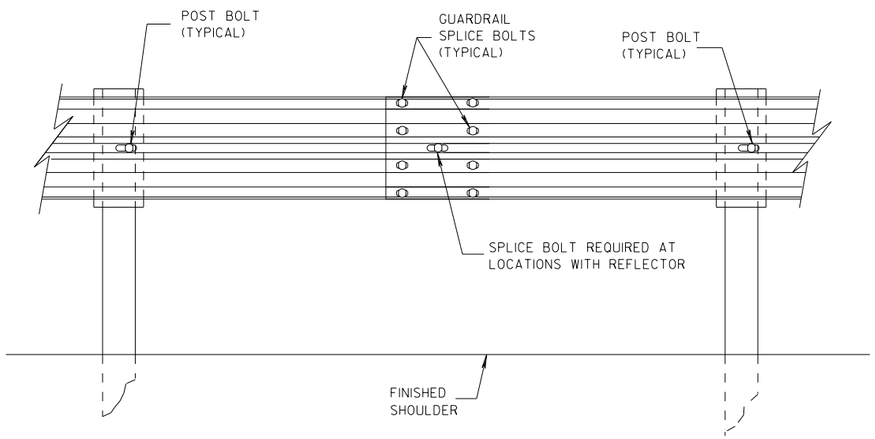


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

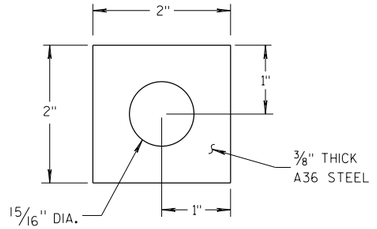
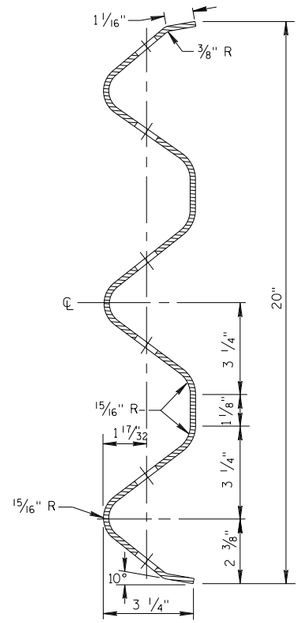


PLATE WASHER DETAIL



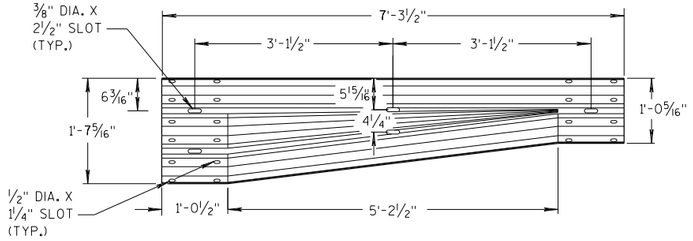
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

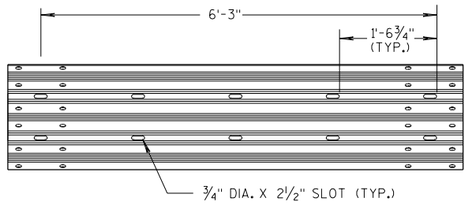
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

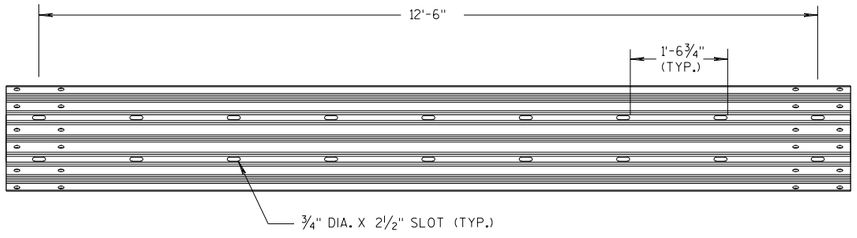
S.D.D. 14 B 45-5b



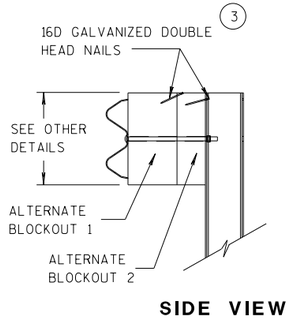
W-BEAM TO THRIE BEAM TRANSITION SECTION



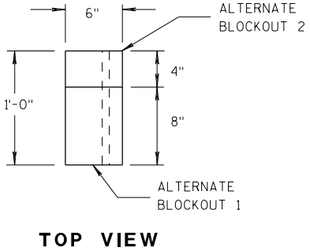
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

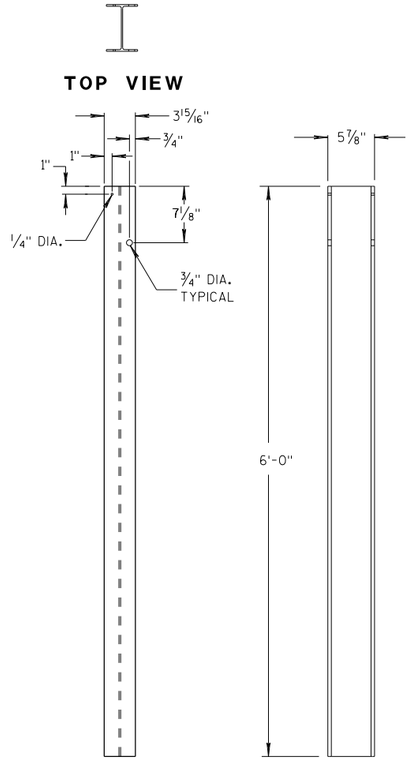


SIDE VIEW



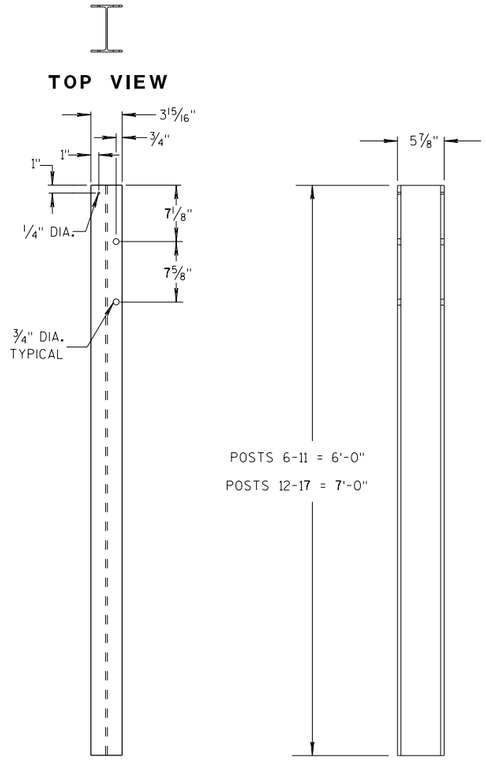
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



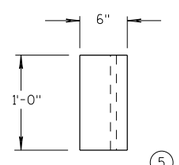
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

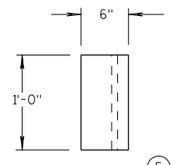


FRONT VIEW SIDE VIEW

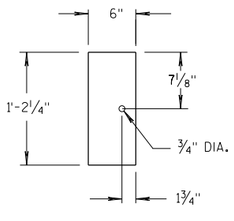
STEEL POSTS 6-17



TOP VIEW (5)

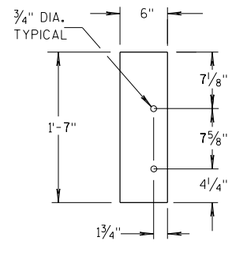


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

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

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

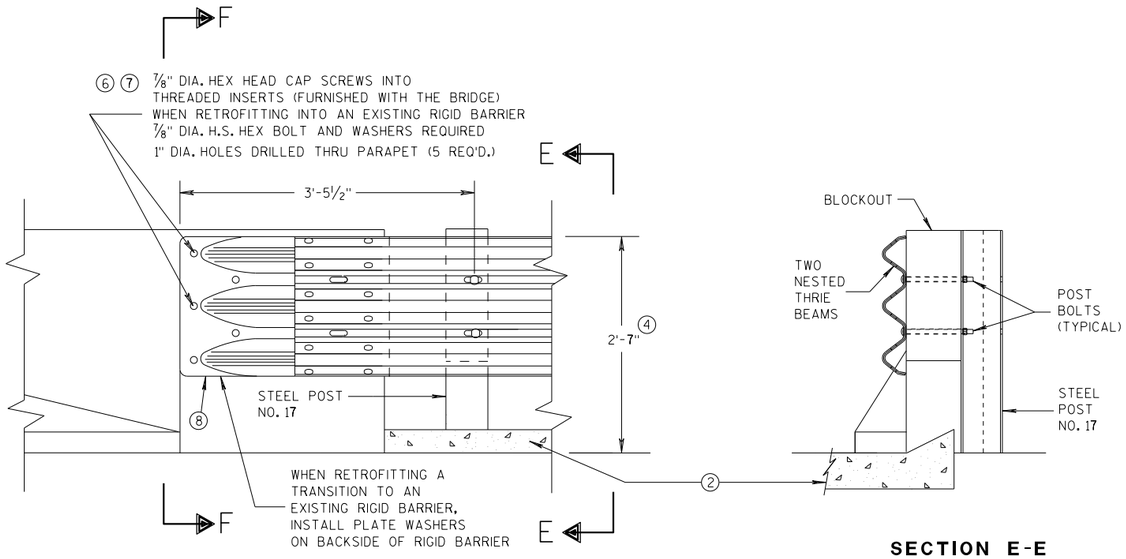
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

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S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

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

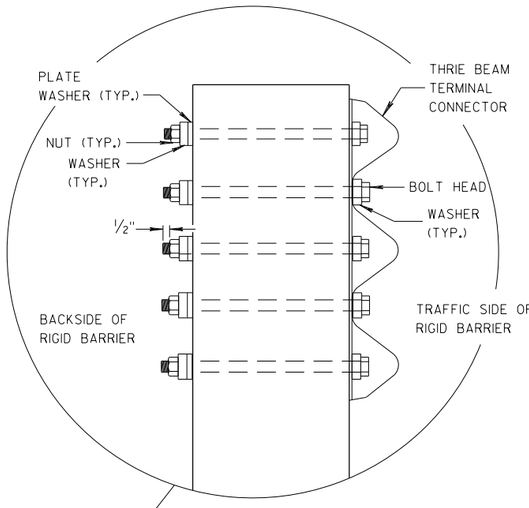
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

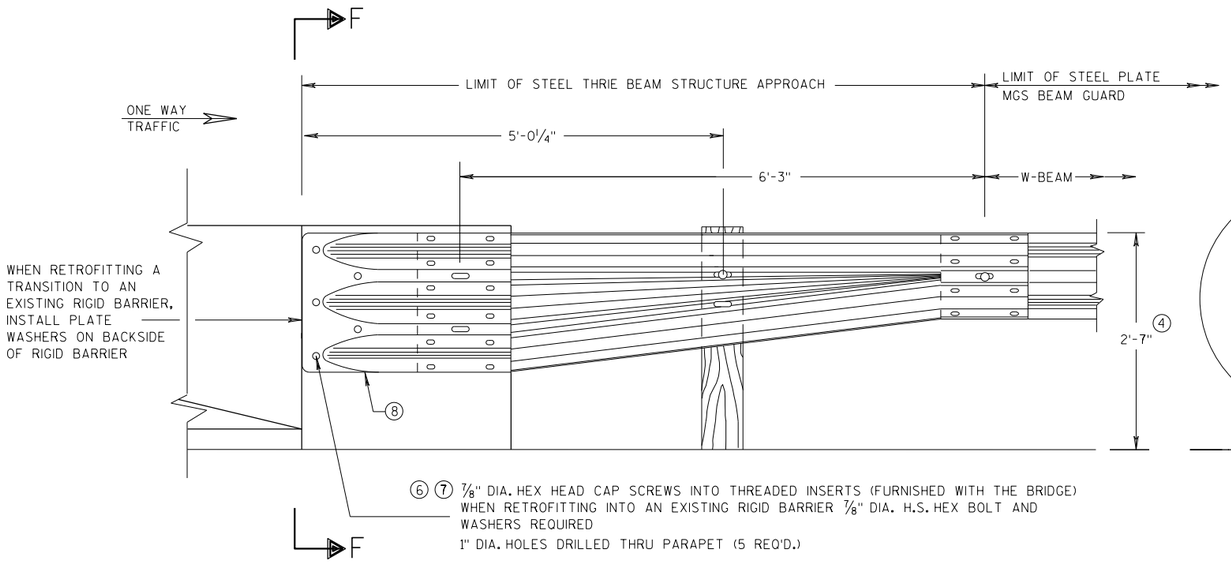
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

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

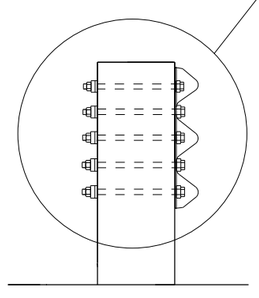
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE.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

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

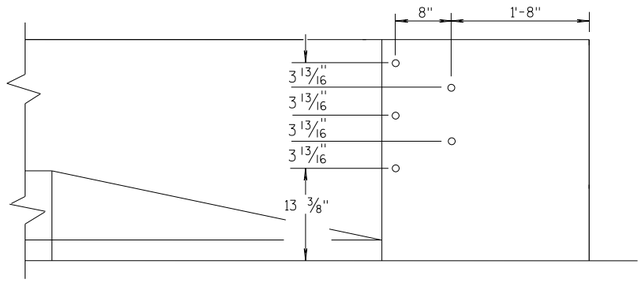




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

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

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVIS
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FHWA

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S.D.D. 14 B 45-5d

GENERAL NOTES

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

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

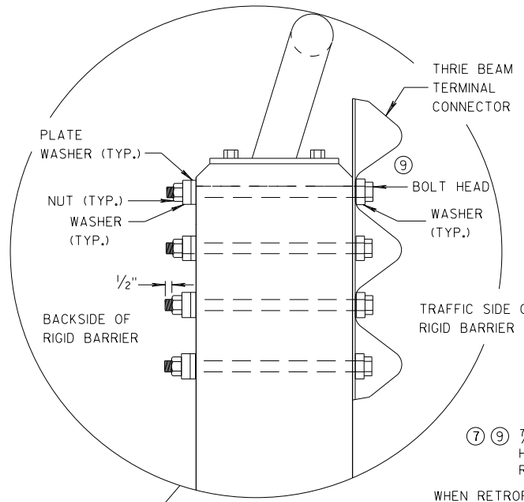
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

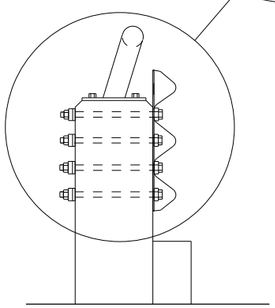
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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

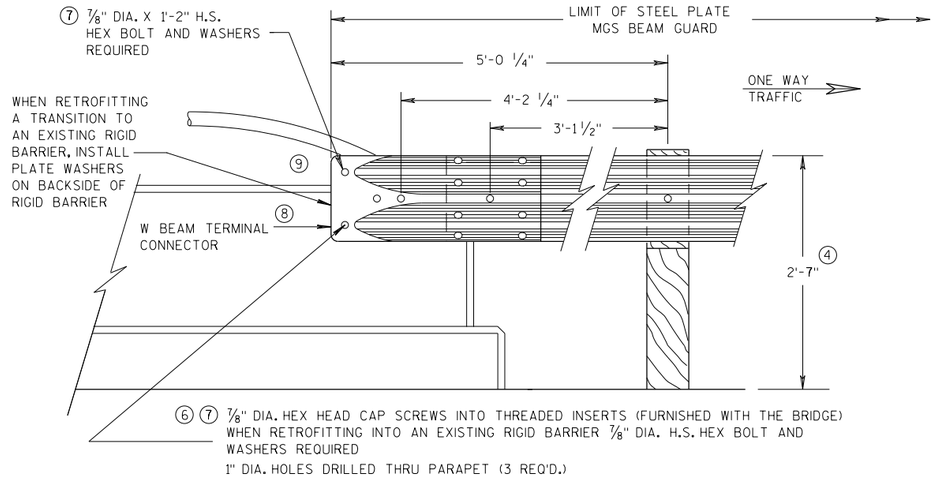
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

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





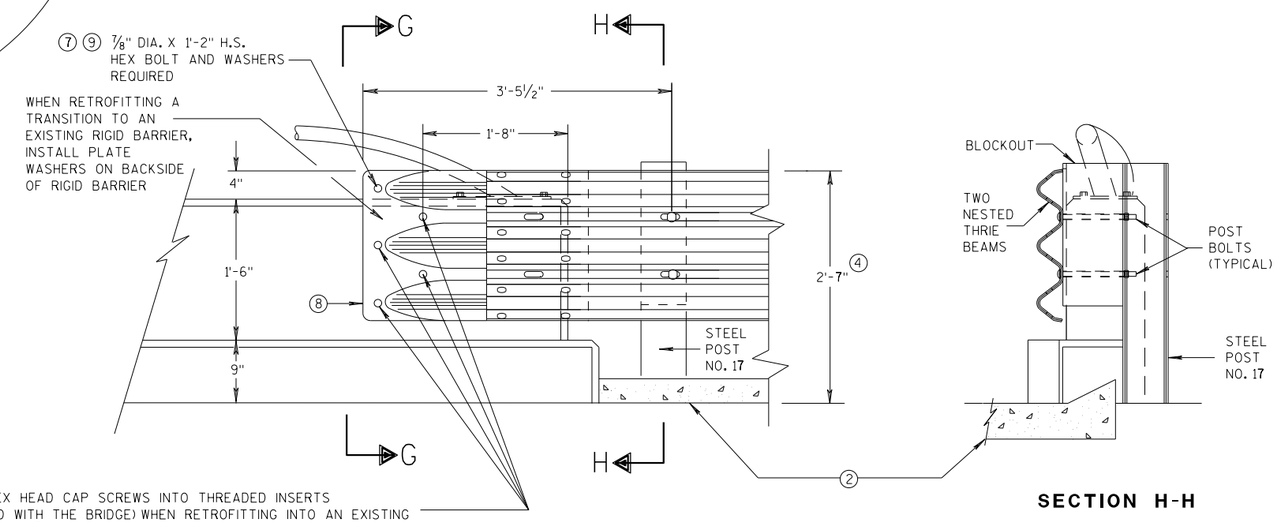
SECTION G-G



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

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



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

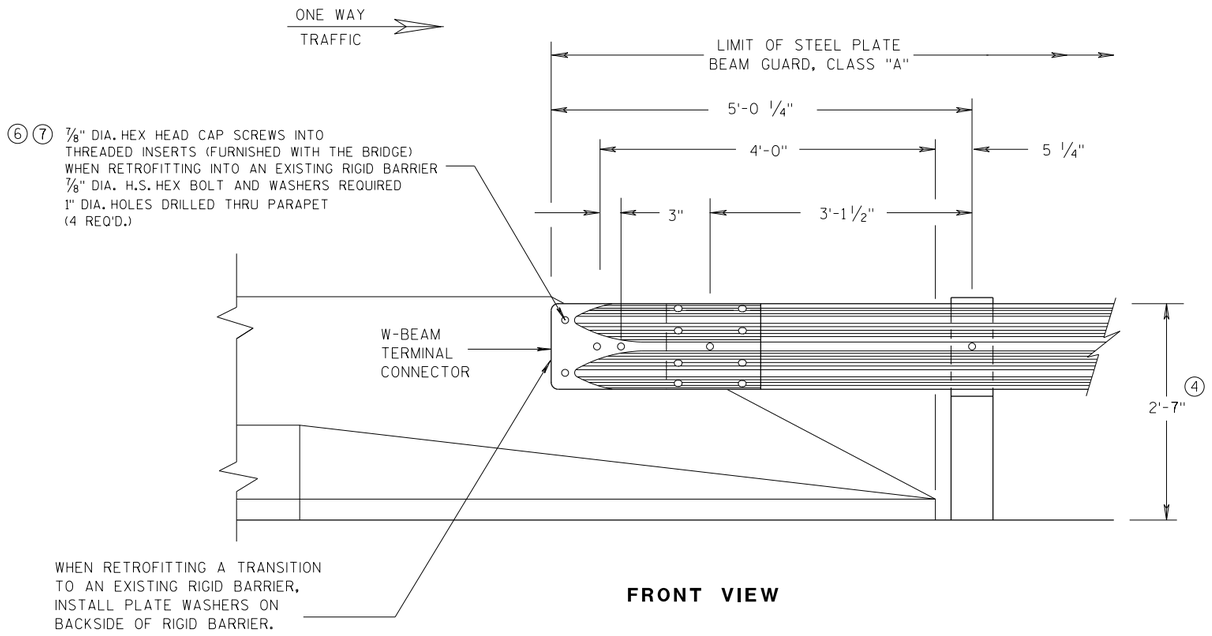
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S.D.D. 14 B 45-5e

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S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

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

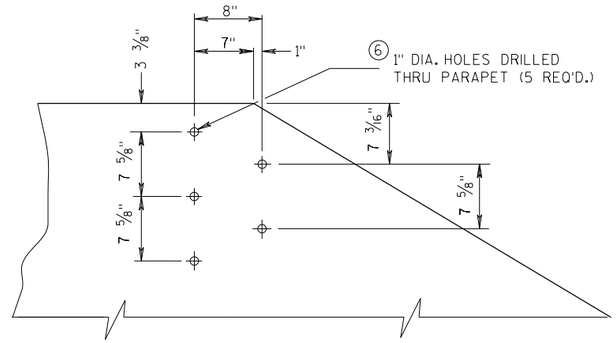
GENERAL NOTES

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

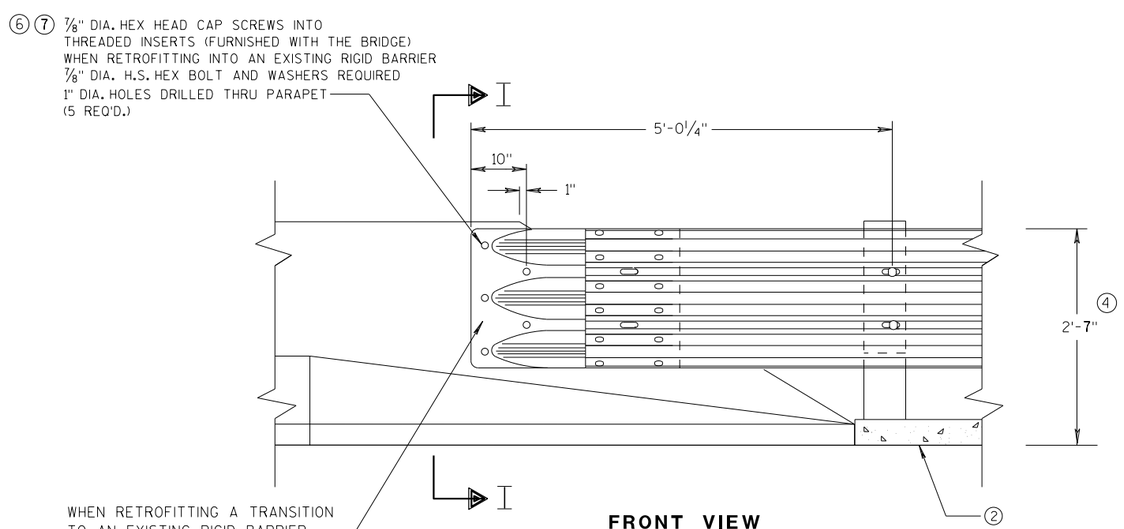
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

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

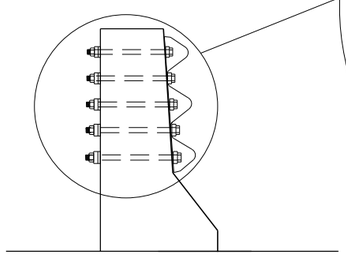
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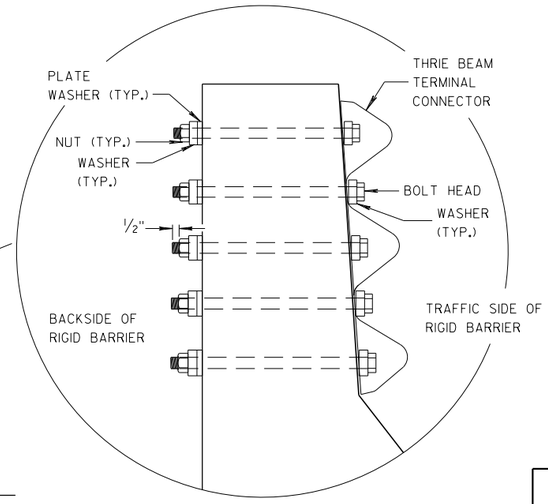
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

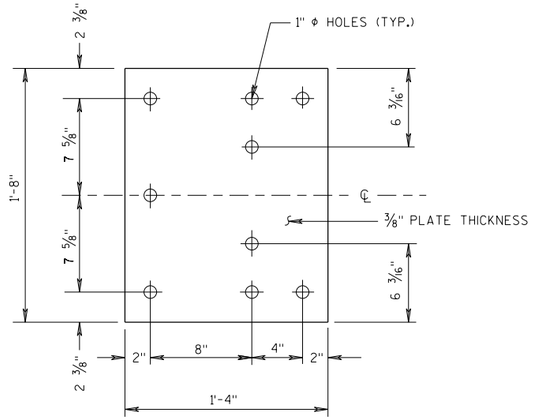
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07/2018 — DATE
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FHWA

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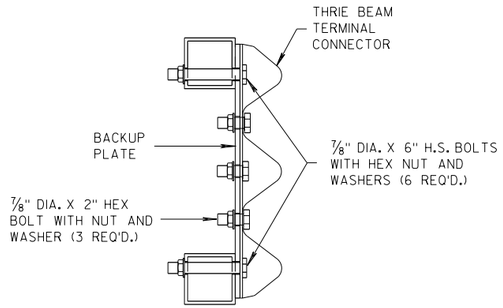
S.D.D. 14 B 45-5f

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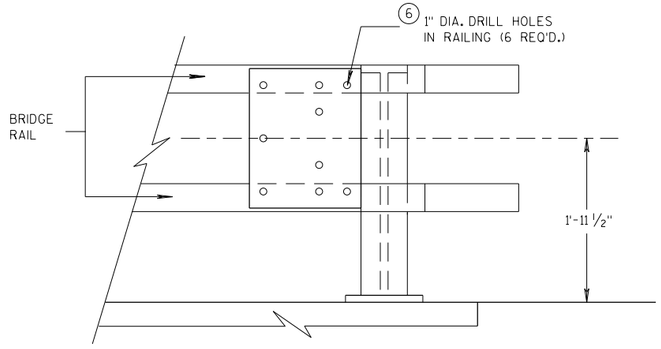
S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL



SECTION J-J

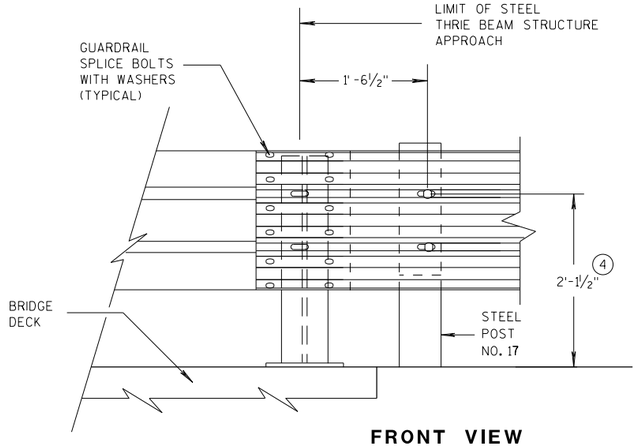


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

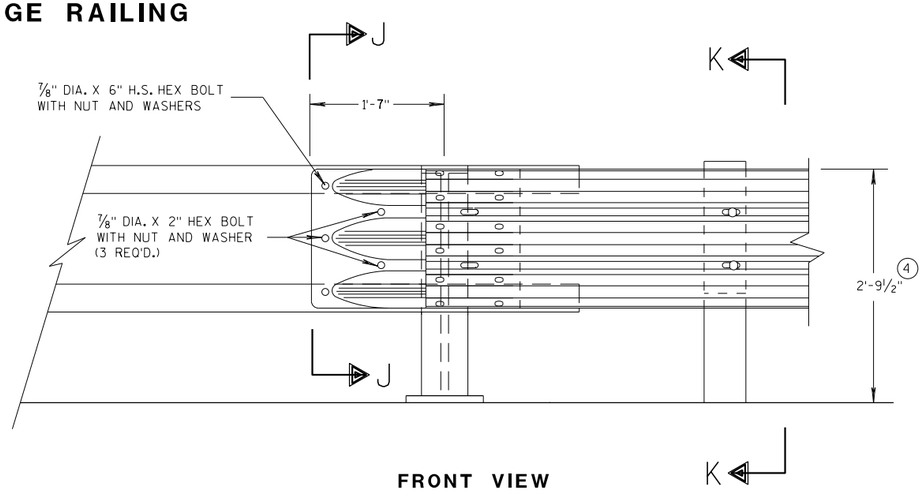
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

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

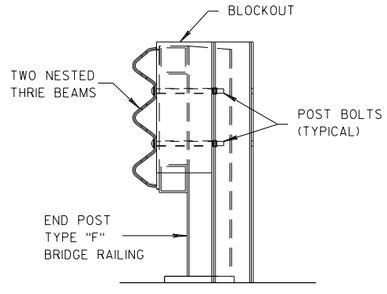


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE
FHWA

/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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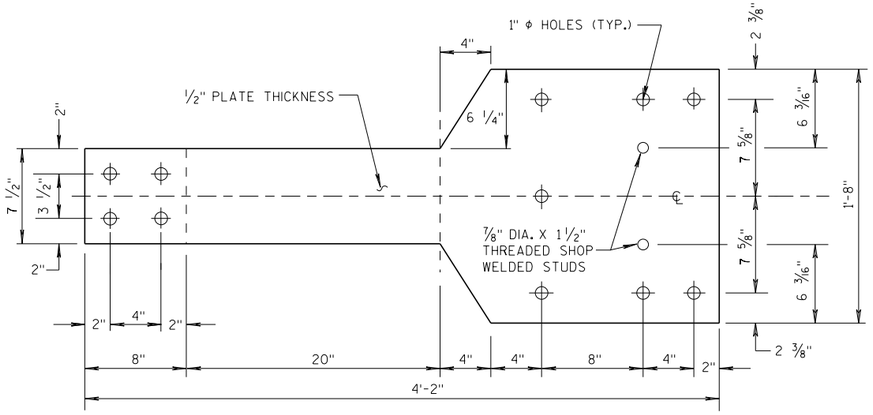
S.D.D. 14 B 45-5g

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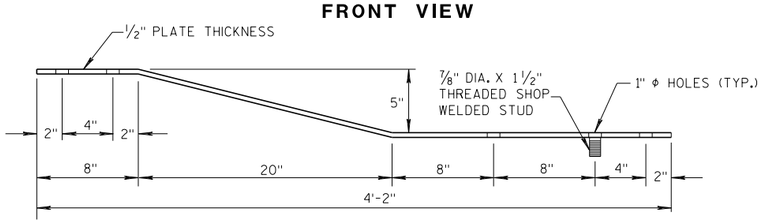
S.D.D. 14 B 45-5g

GENERAL NOTES

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

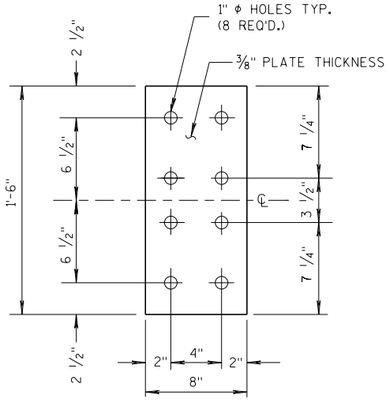


FRONT VIEW



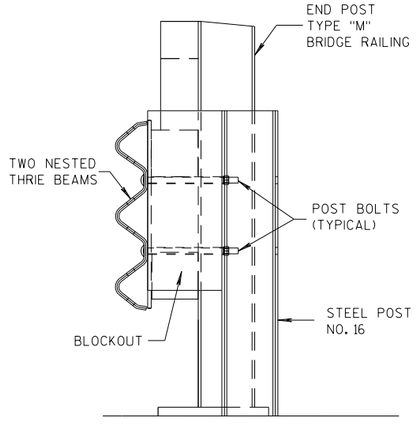
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

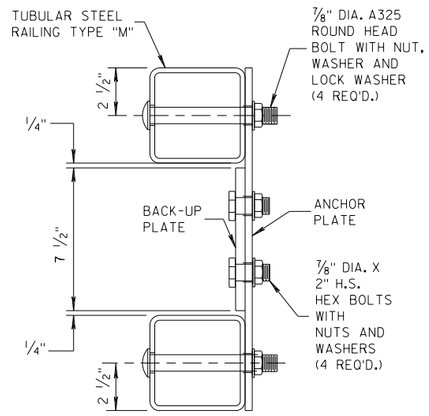


FRONT VIEW

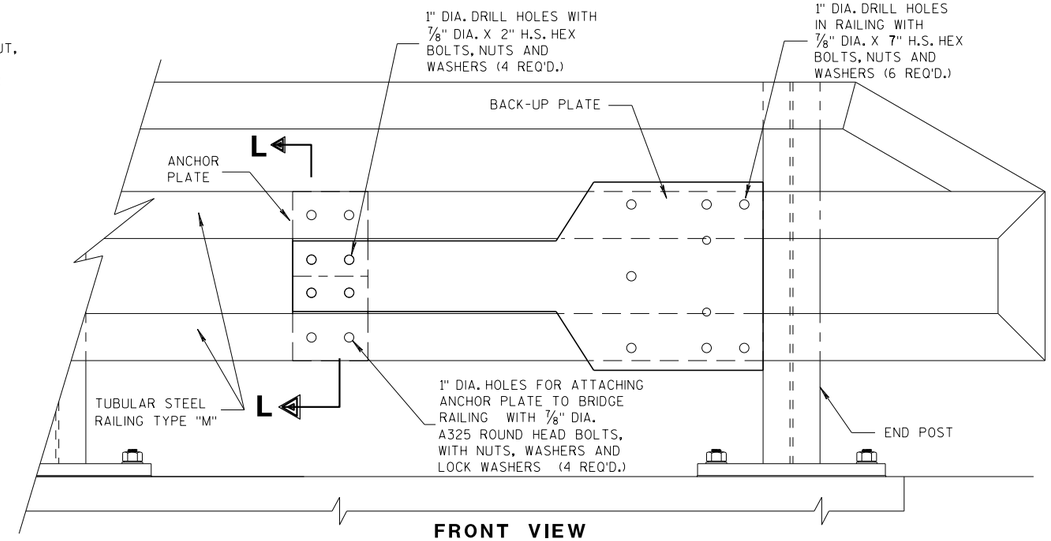
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

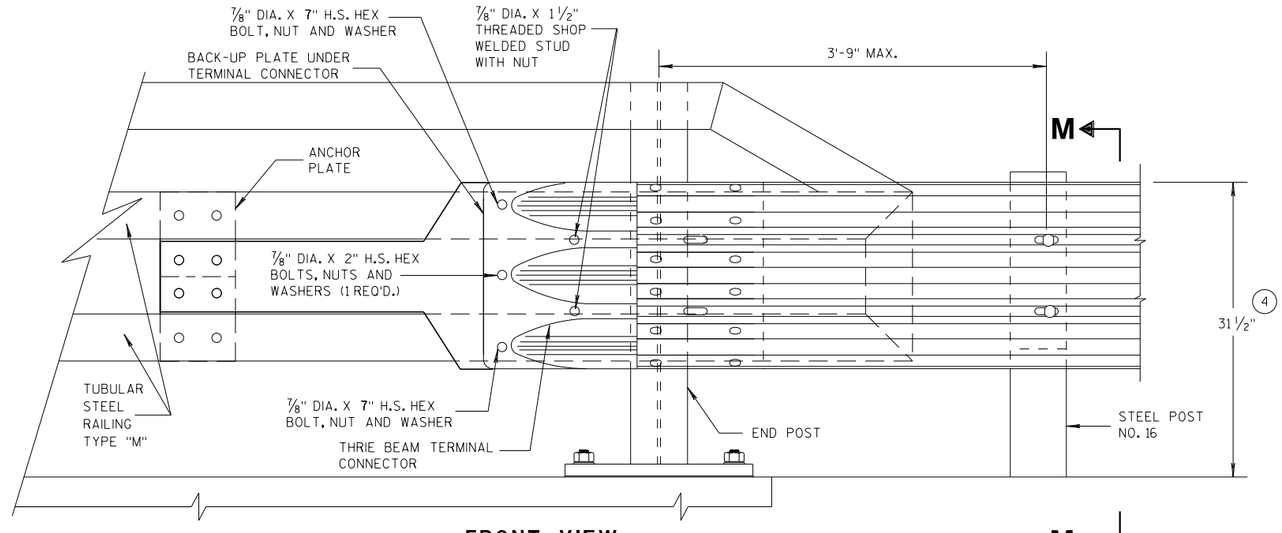


SECTION L-L

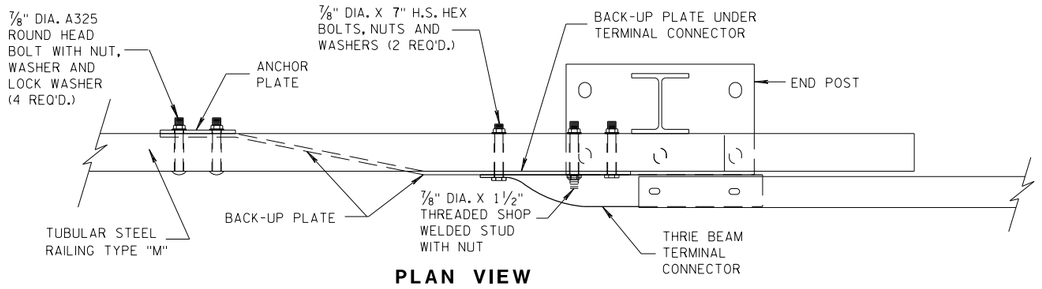


FRONT VIEW

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



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

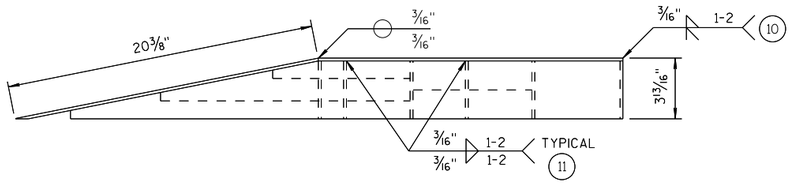
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

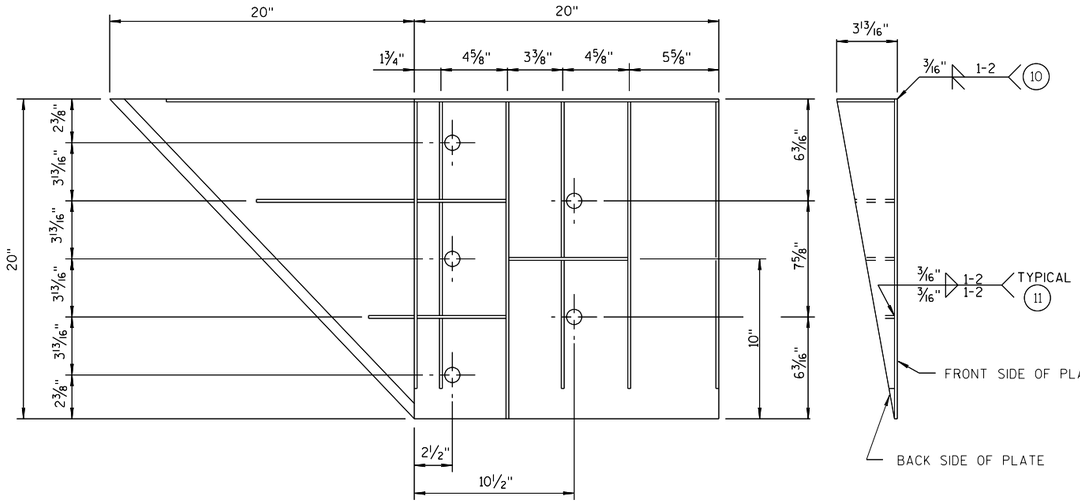
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S.D.D. 14 B 45-5h

6

S.D.D. 14 B 45-5h





WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

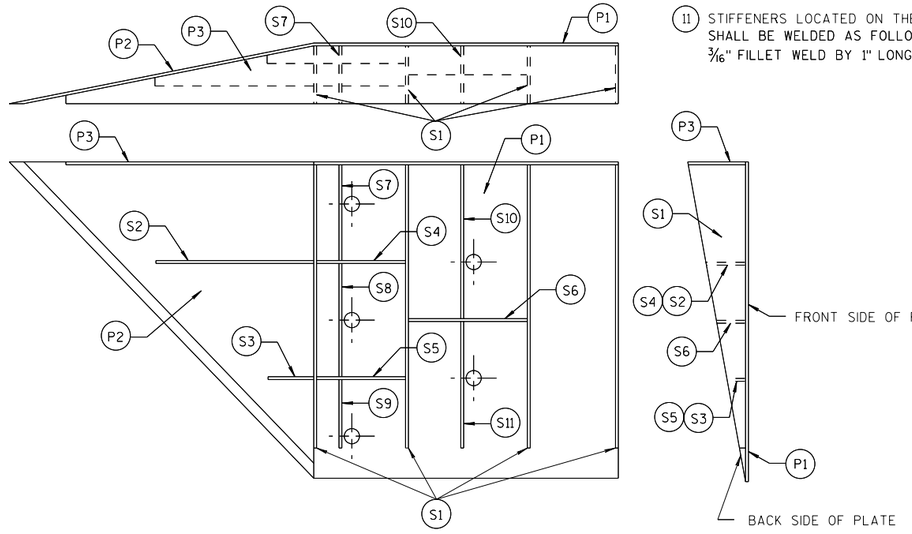


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

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

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

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

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

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

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

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

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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7/2018
DATE
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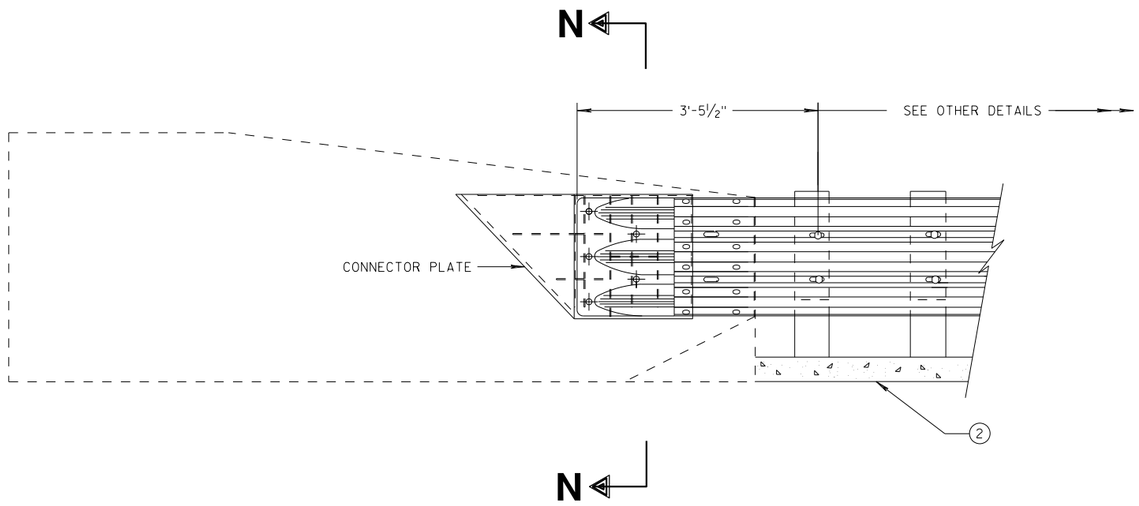
/S/ Rodney Taylor
ROADWAY STANDARDS I
UNIT SUPERVI

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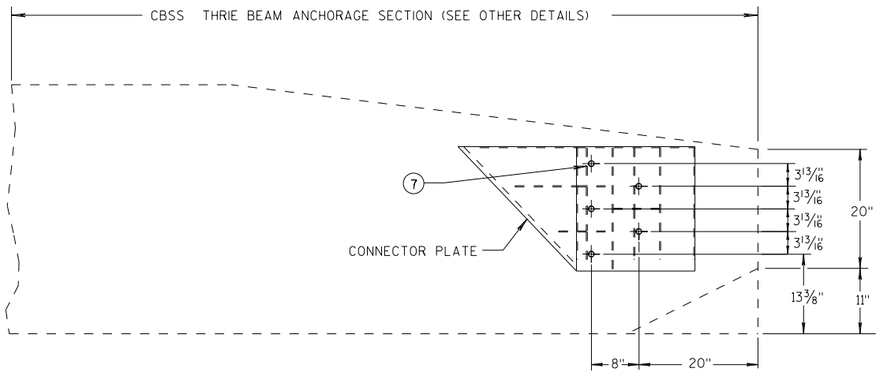
S.D.D. 14 B 45-5i

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S.D.D. 14 B 45-5i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



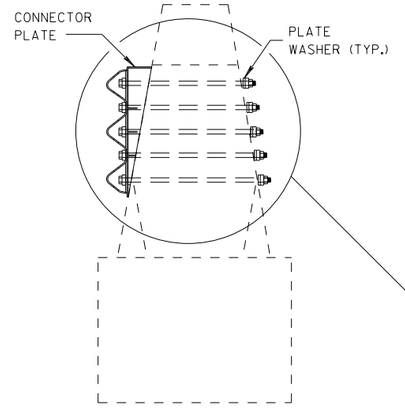
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

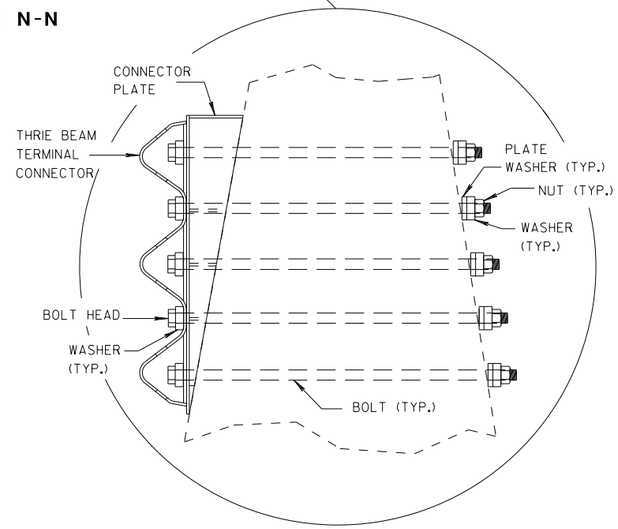
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X ⅝" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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APPROVED
7/2018
DATE
FHWA

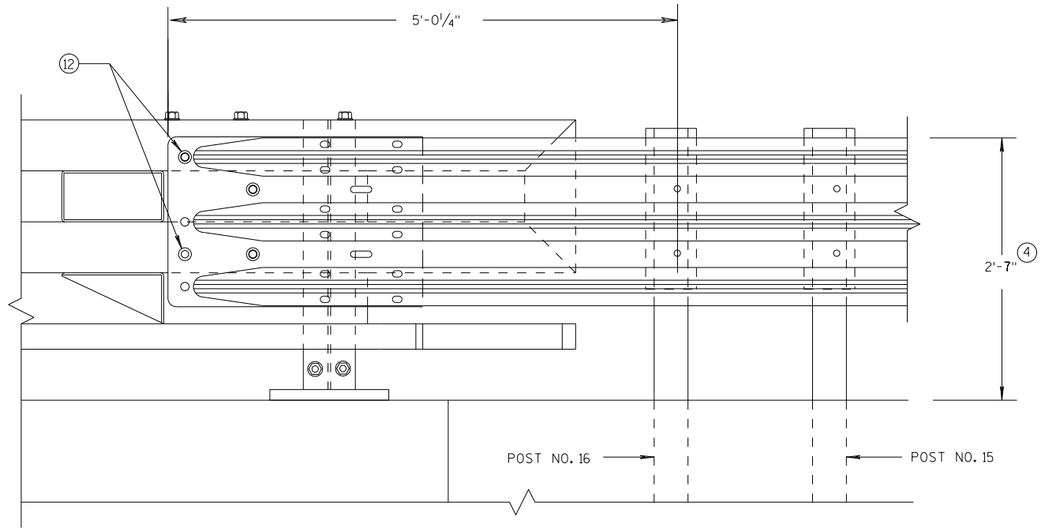
/S/ Rodney Taylor
ROADWAY STANDARDS DI
UNIT SUPERVIS

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S.D.D. 14 B 45-5j

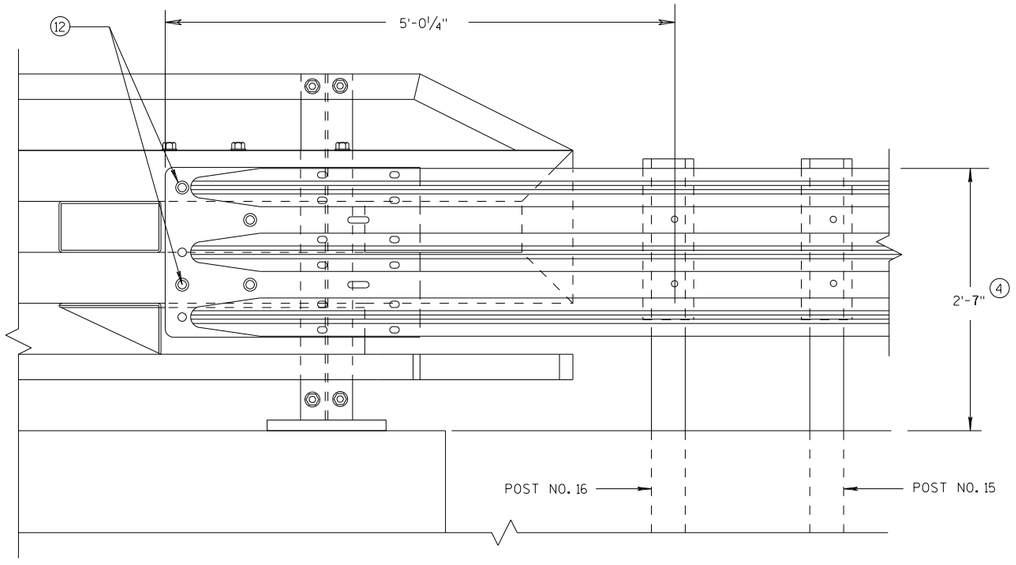
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S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

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

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVIS

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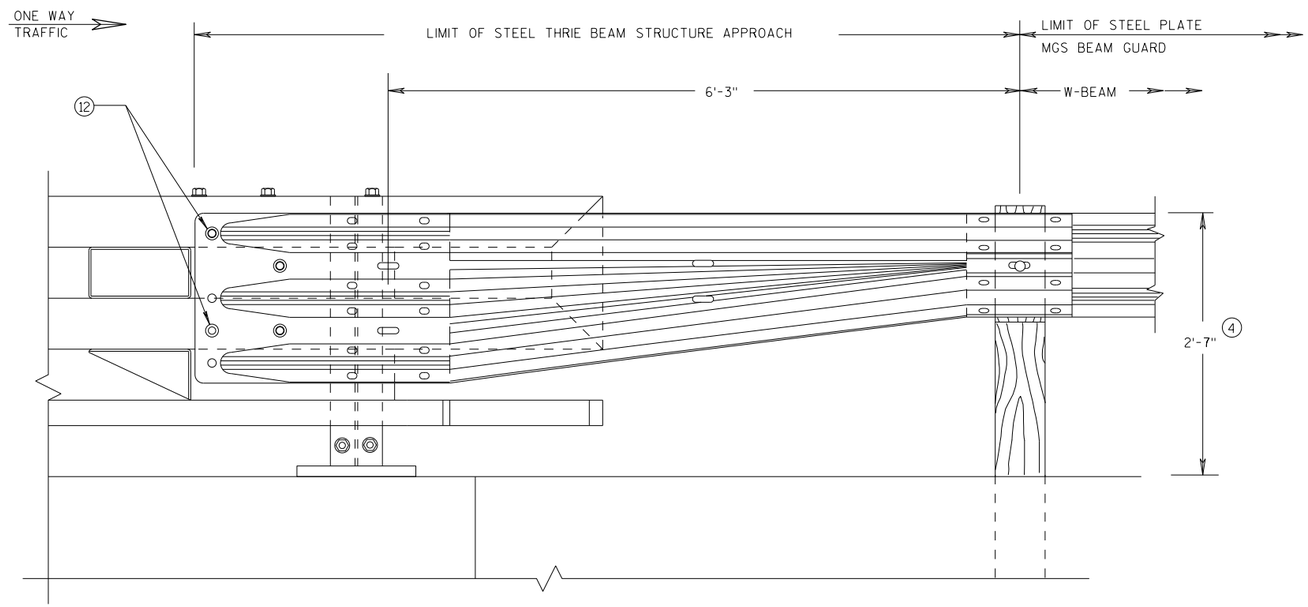
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S.D.D. 14 B 45-5k

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S.D.D. 14 B 45-5k



FRONT VIEW

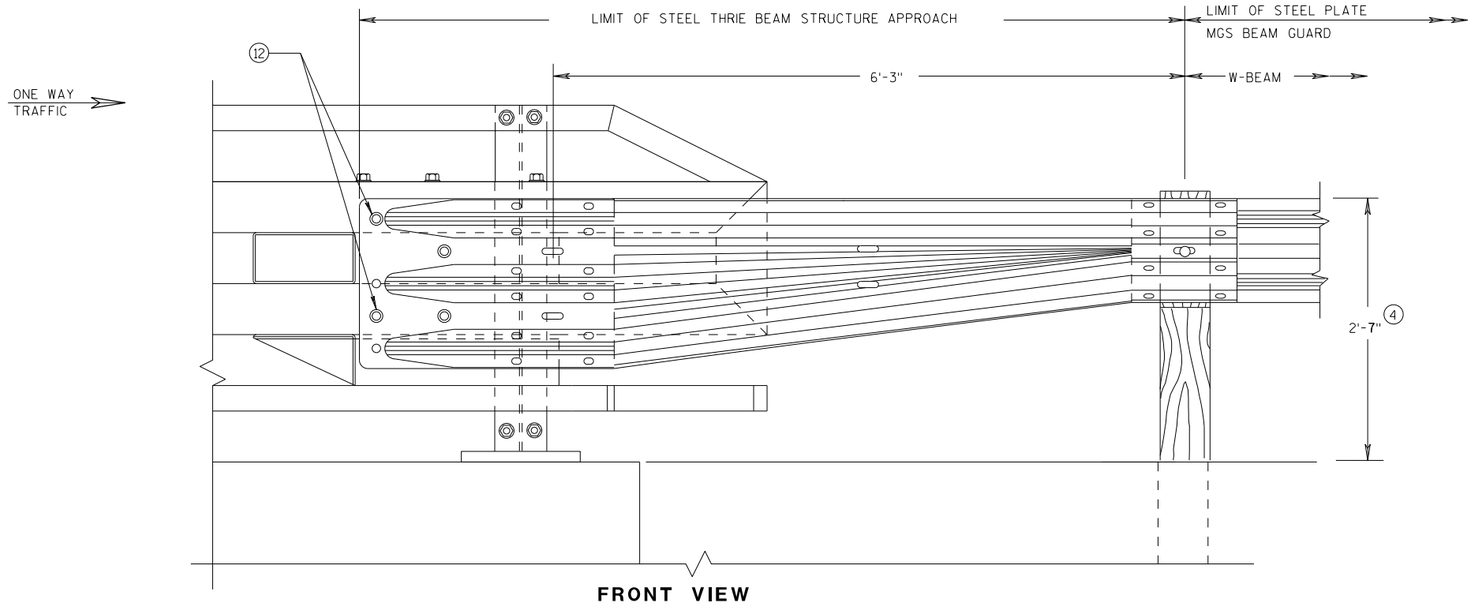
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

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

GENERAL NOTES

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

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

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

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

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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7/2018 DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVIS
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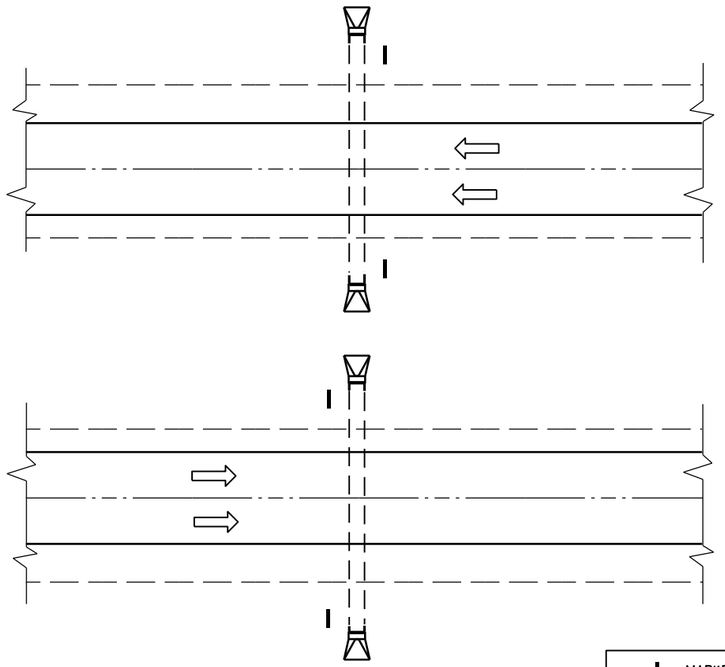
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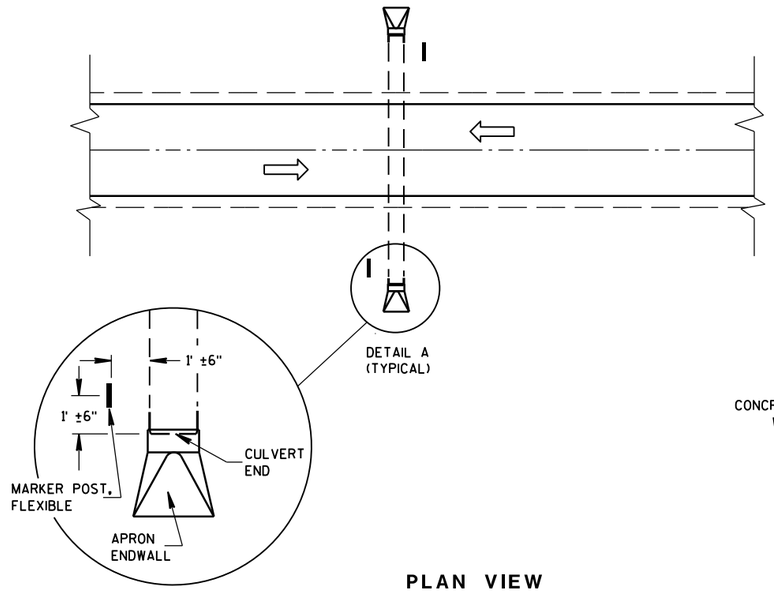
S.D.D. 14 B 45-5L

S.D.D. 14 B 45-5L



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

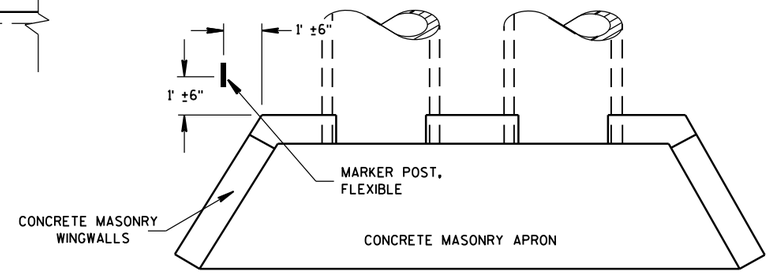
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

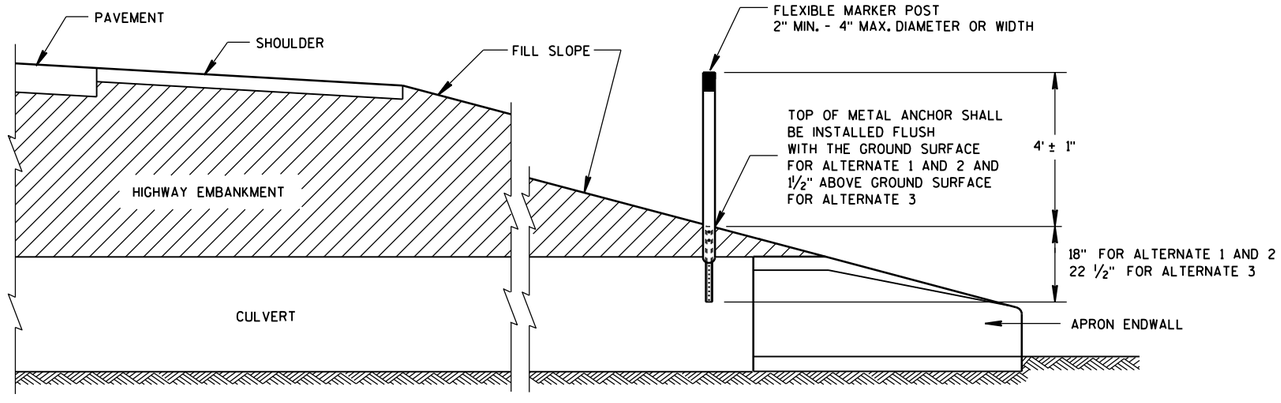
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

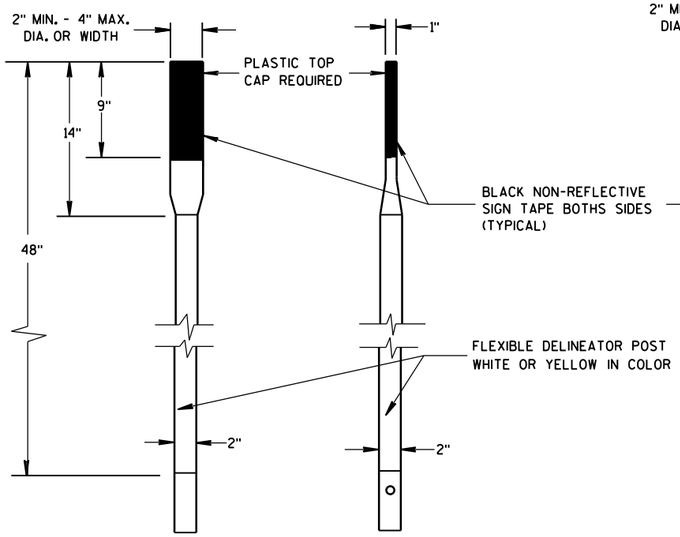
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

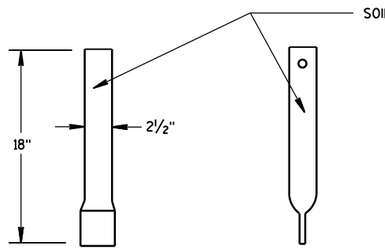
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S.D.D. 15 A 3-2a

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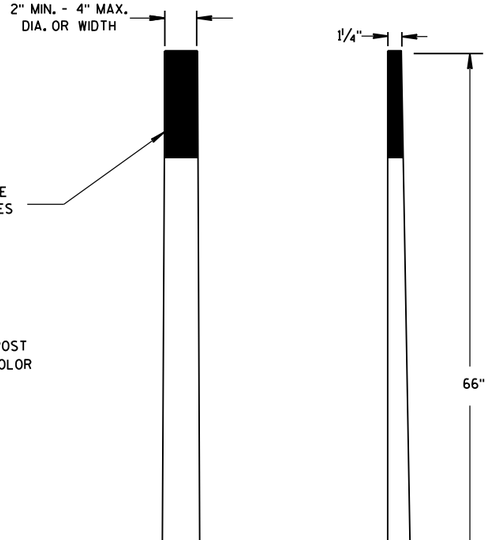
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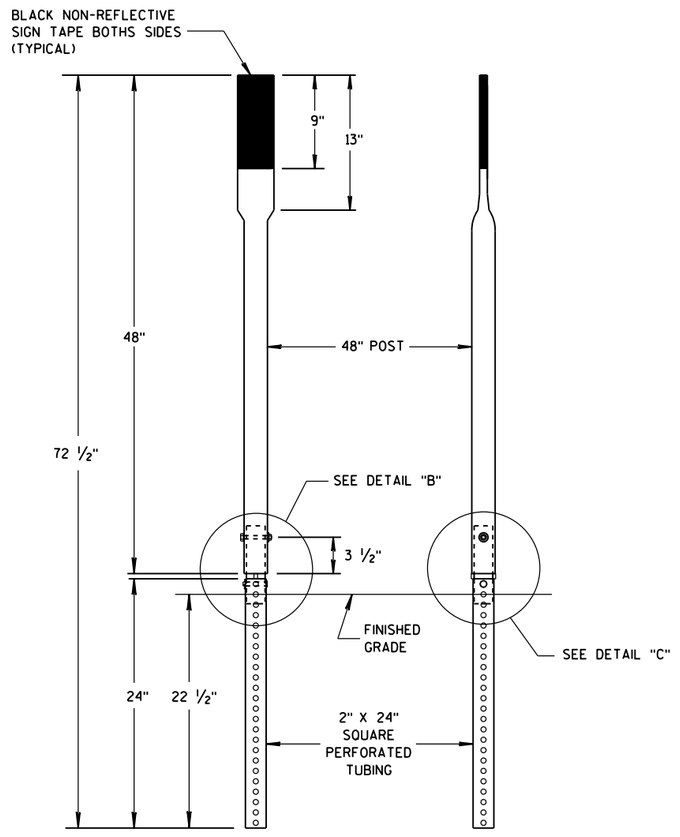
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

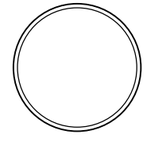
ALTERNATE 2



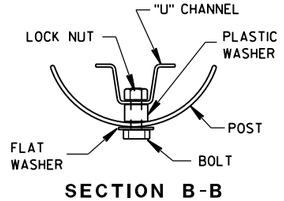
FRONT VIEW SIDE VIEW

ALTERNATE 3

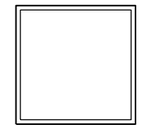
FLEXIBLE MARKER POSTS



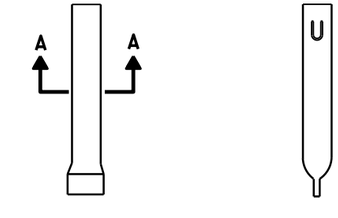
SECTION A-A



SECTION B-B

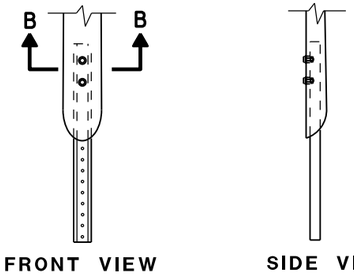


SECTION C-C



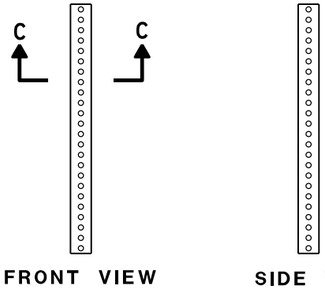
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

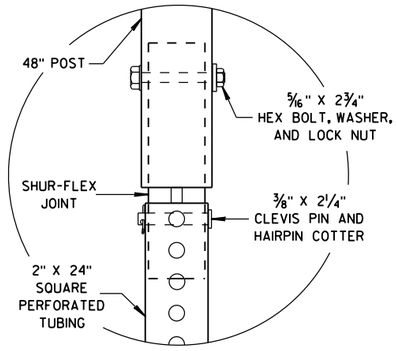
ALTERNATE 2



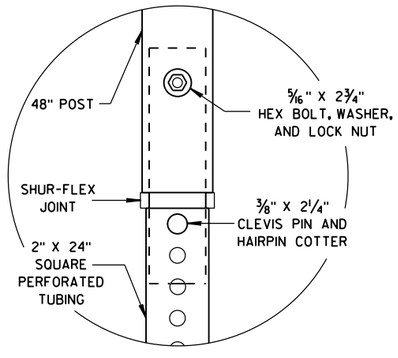
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

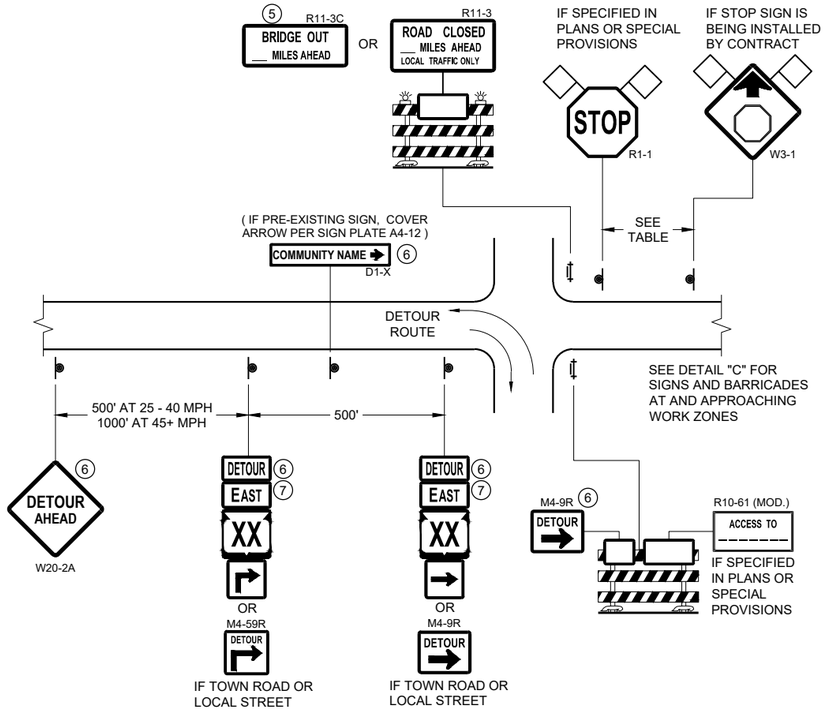
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

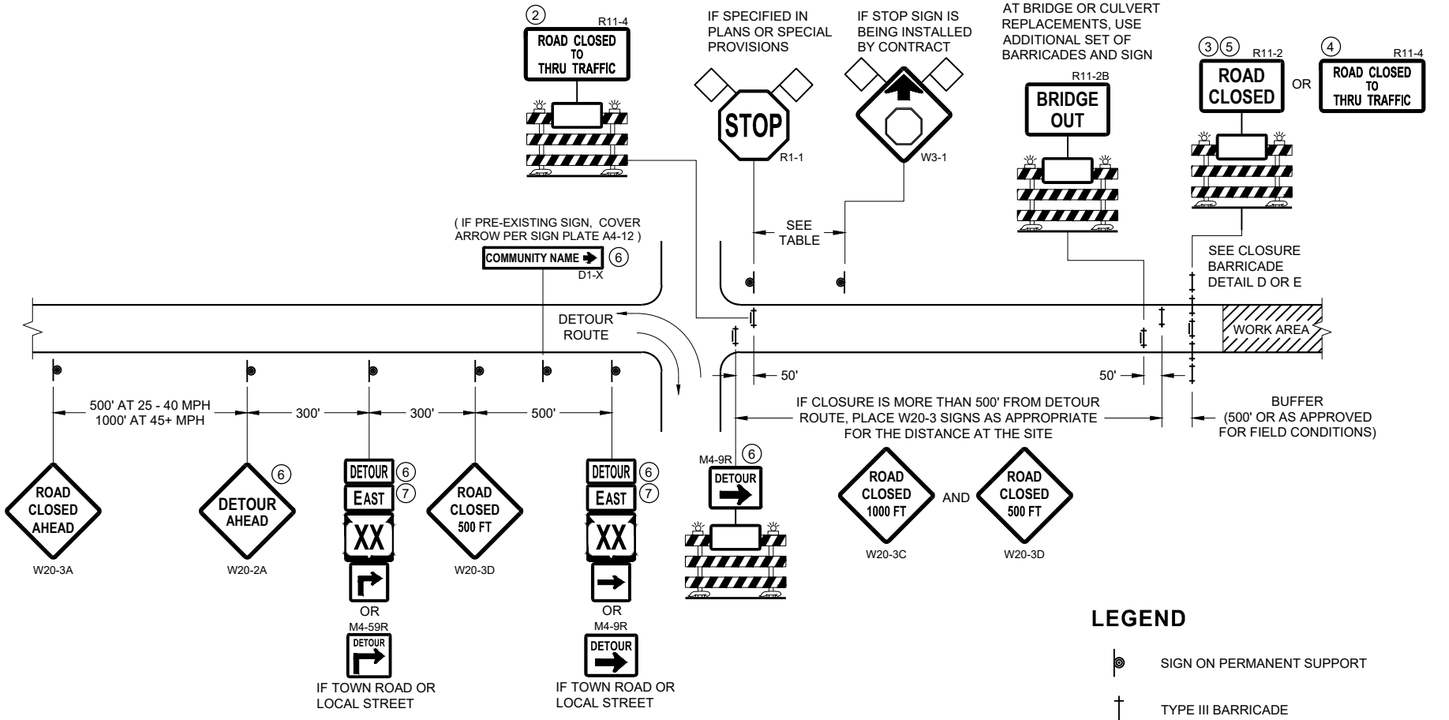
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S.D.D. 15 A 3-2b

6

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



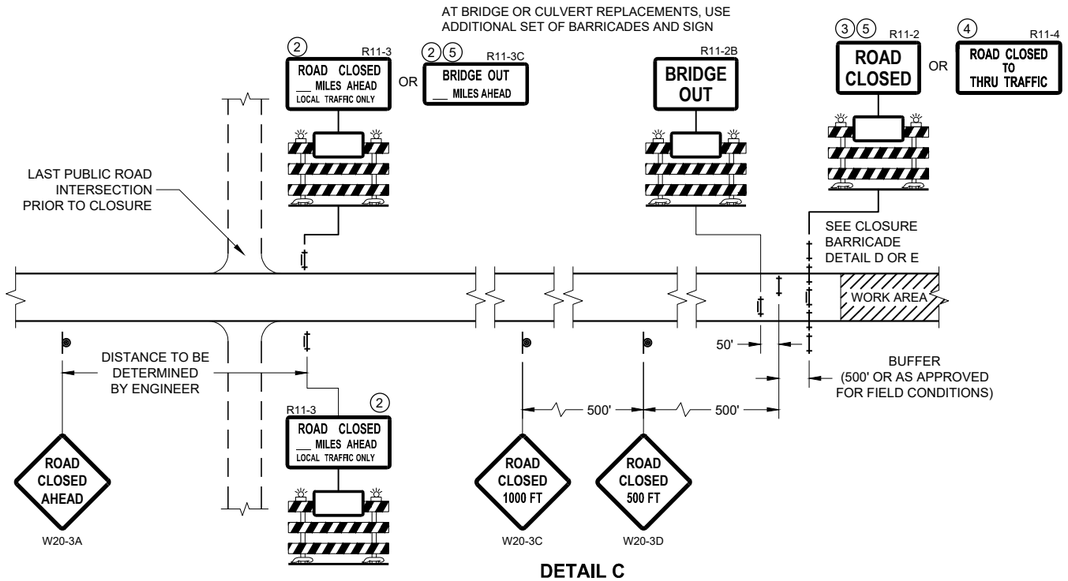


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO 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
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

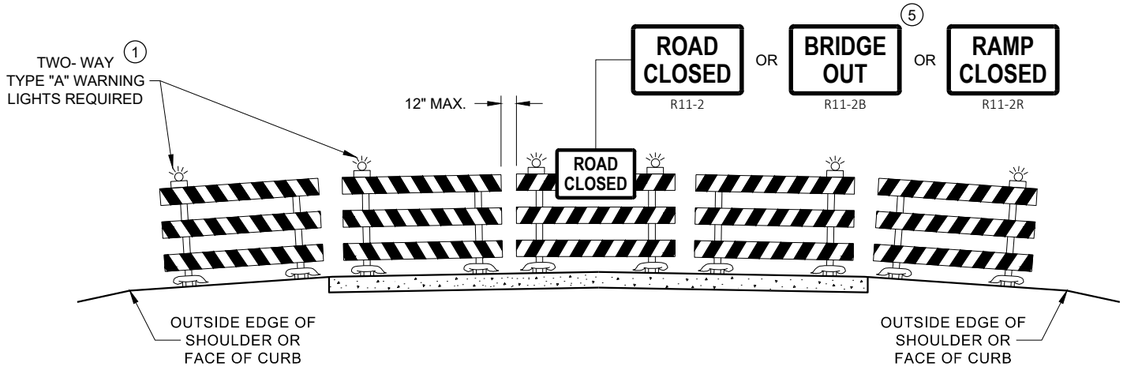
APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

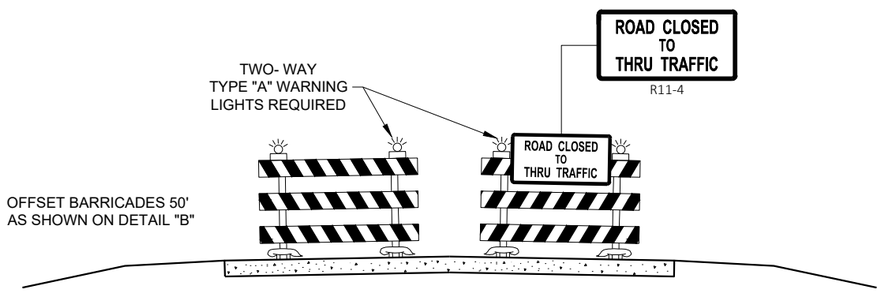
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SDD 15C02 - 07a

SDD 15C02 - 07a



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 THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL 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 SHALL, 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" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- 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 AN 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 ROAD 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 VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

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SDD 15C02 - 07b

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SDD 15C02 - 07b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

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" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" 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 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A 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.

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

DETOUR EAST XX *
D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-8a END DETOUR WEST XX *

DETOUR EAST XX / DETOUR WEST XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX OR M4-9L DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * OR M4-59L DETOUR ** IF TOWN ROAD OR LOCAL STREET

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

MATCH POINT

* M4-59L DETOUR ** OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

D1-X COMMUNITY NAME * (IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-9L DETOUR ** OR DETOUR EAST XX 500' IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX

DETOUR WEST XX * M4-9R DETOUR ** OR IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * M4-59R * DETOUR ** OR IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *
D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX

DETOUR EAST XX / DETOUR EAST XX

DETOUR EAST XX *
D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

500'

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *
M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

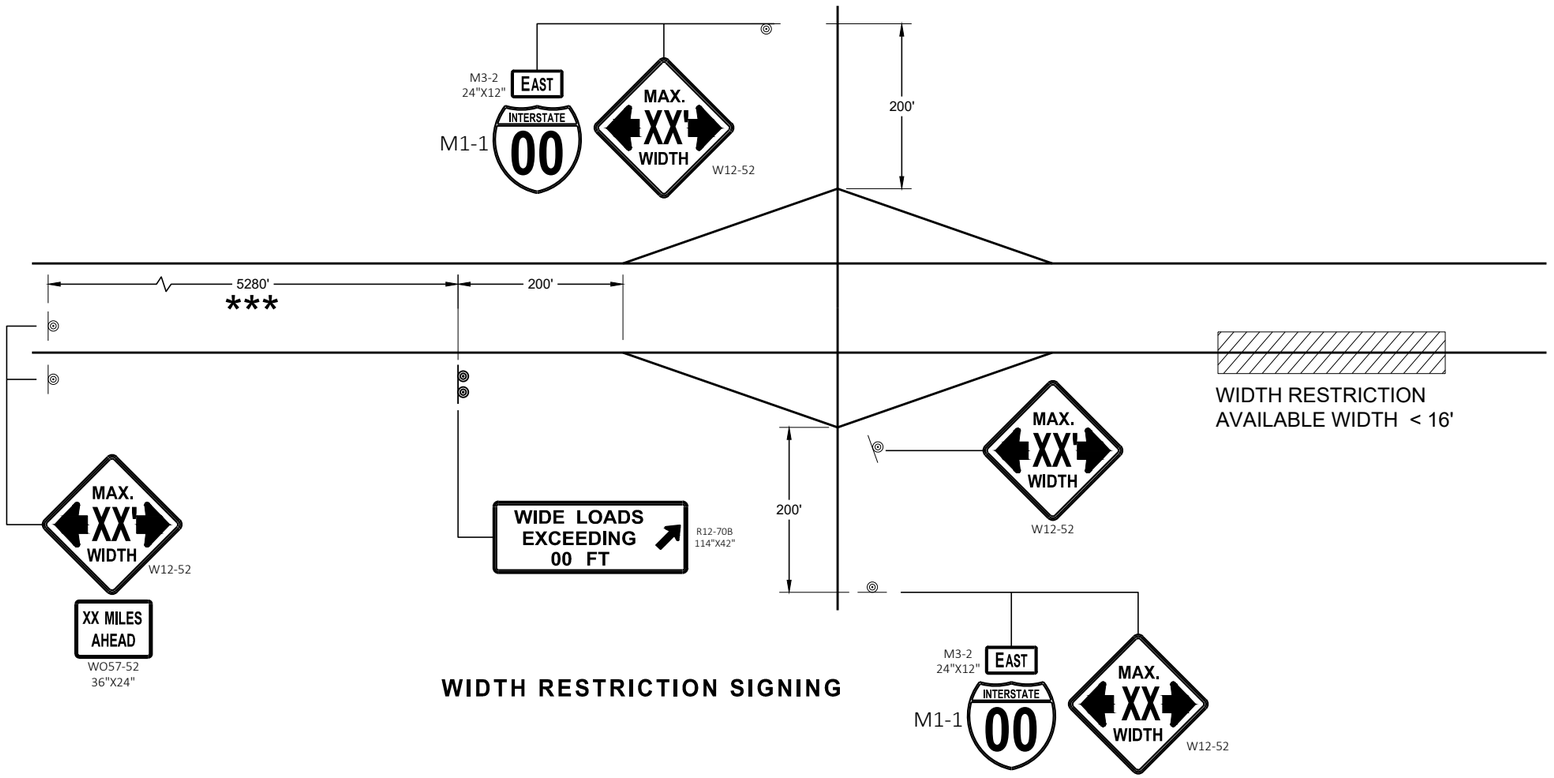
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 07c

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SDD 15C02 - 07c



WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS 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 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.

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

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

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

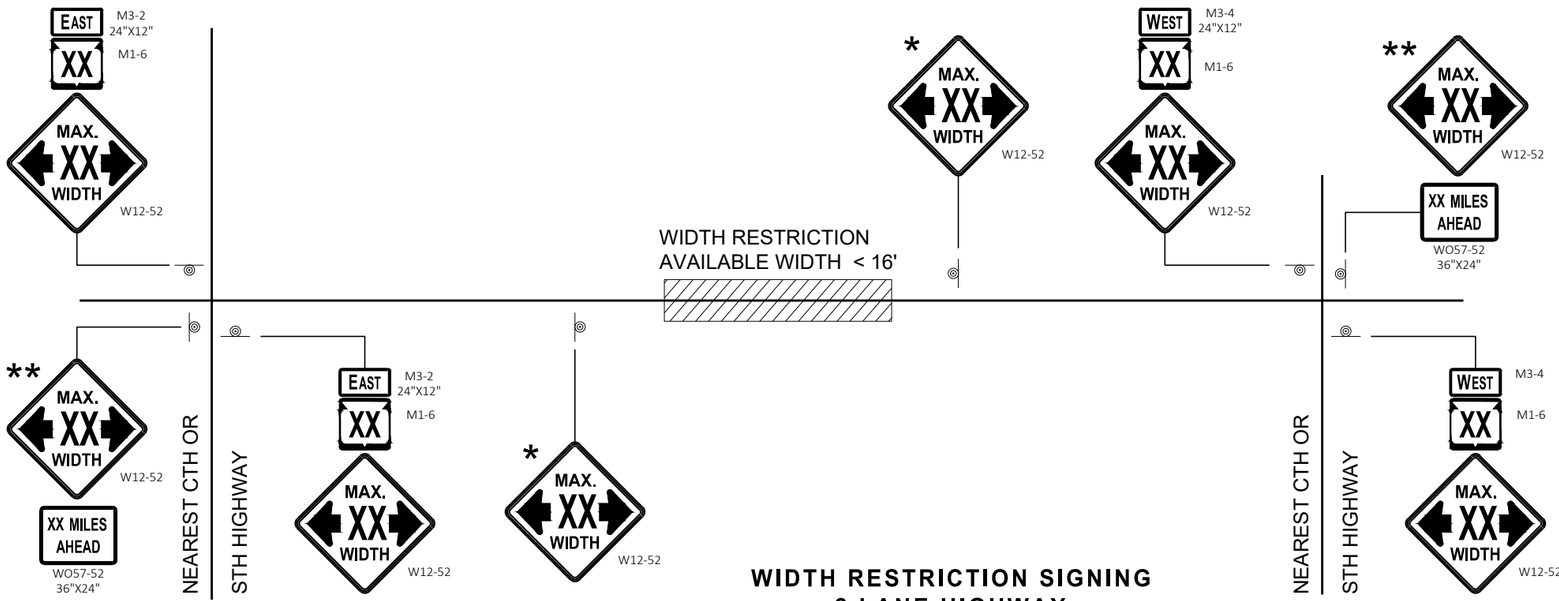
* PLACE 500 FEET BEFORE THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.



WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

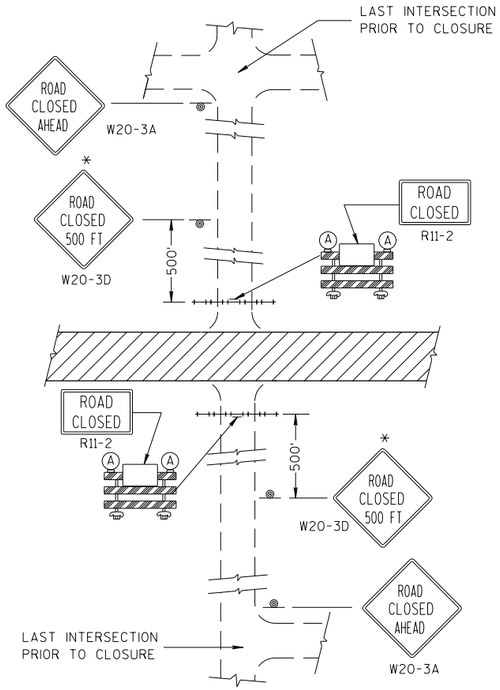
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15C02 - 07f

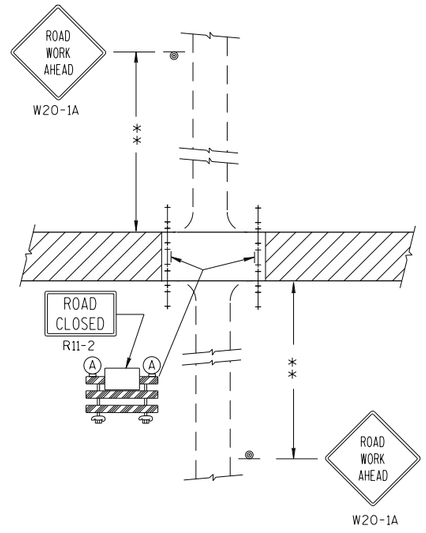
SDD 15C02 - 07f

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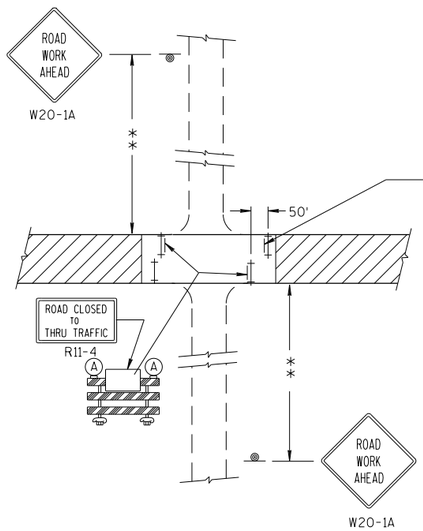
DETAIL 1

(NO ACCESS TO PROJECT)



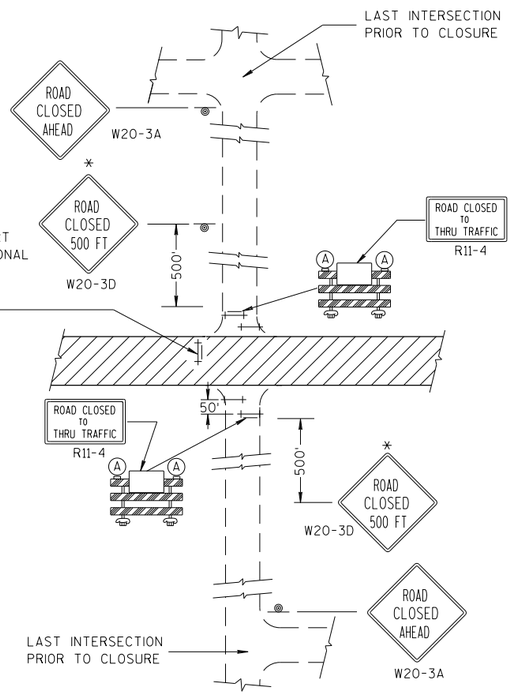
DETAIL 2

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



DETAIL 3

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



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

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

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

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

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

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

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

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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

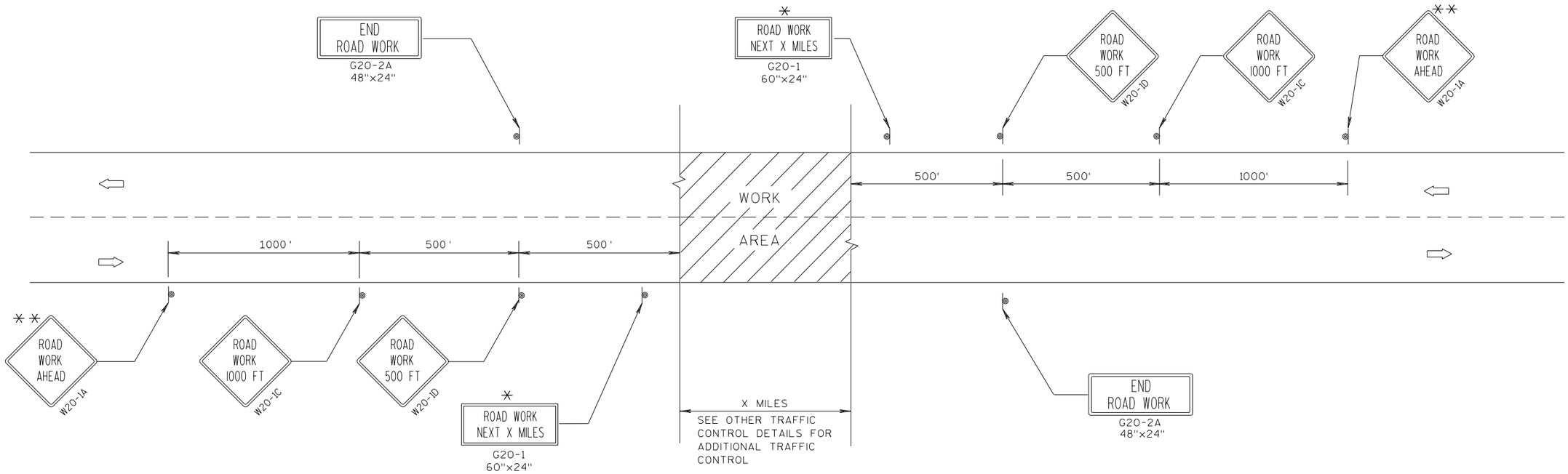
/S/ Andrew Heidtke
WORK ZONE ENGI

FHWA

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S.D.D. 15 C 3-5

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

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

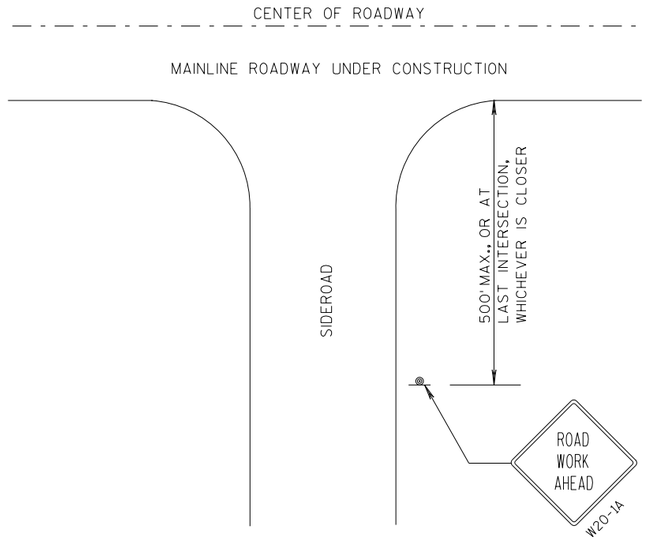
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

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



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

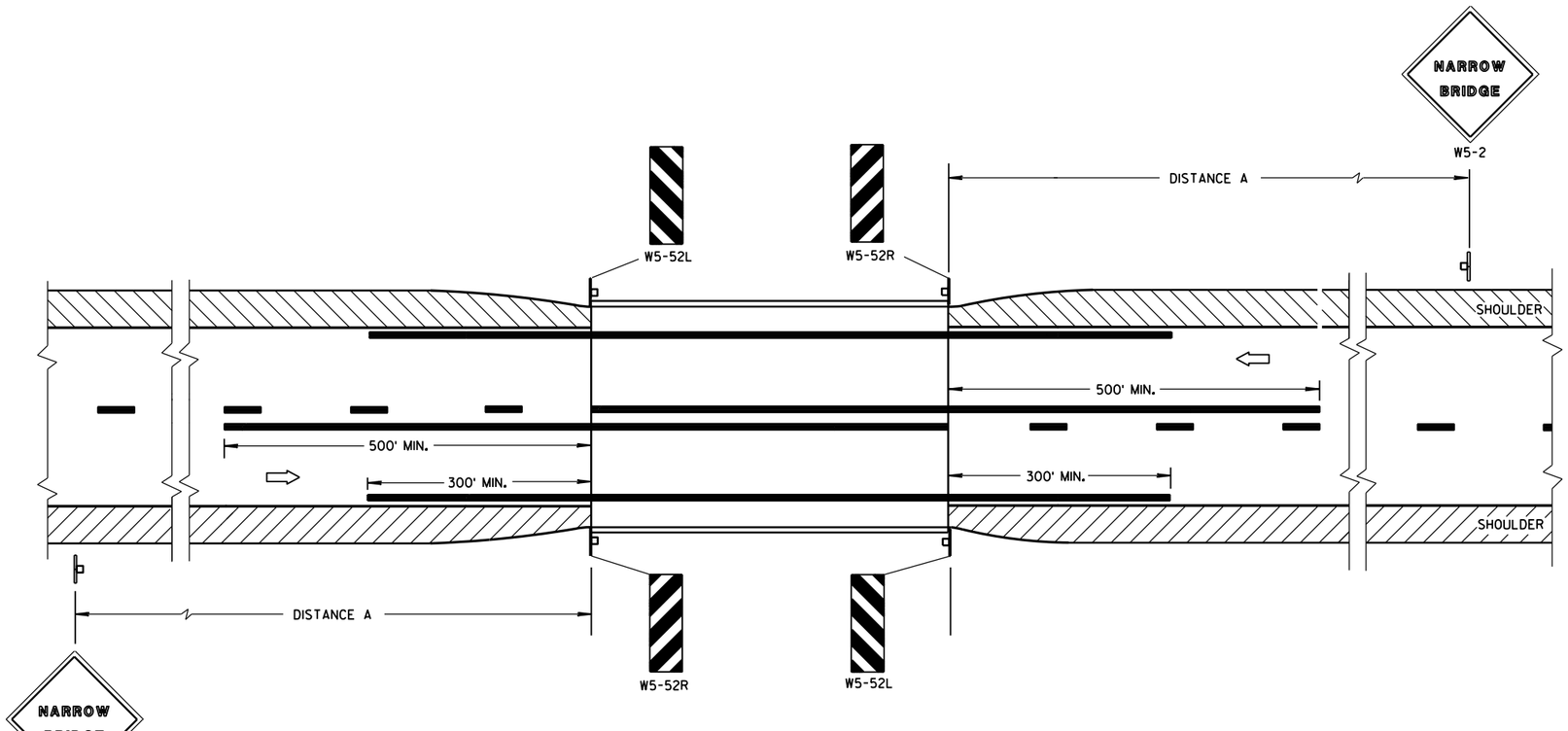
7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENGI

FHWA

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S.D.D. 15 C 4-5



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

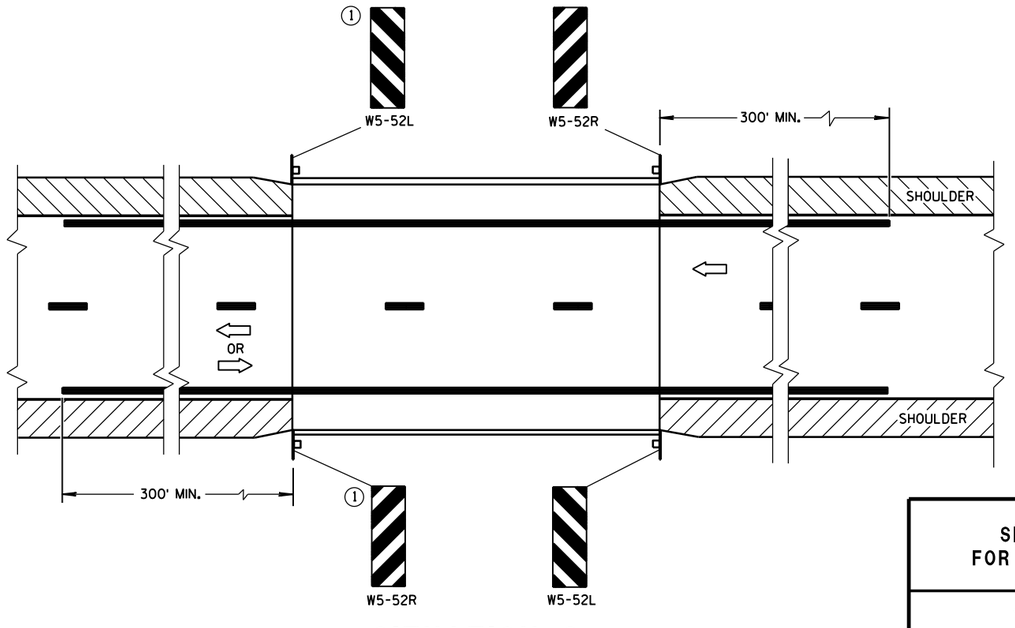
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

(1) OMIT ON ONE-WAY TRAVELLED WAYS.

⇨ DIRECTION OF TRAFFIC



SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

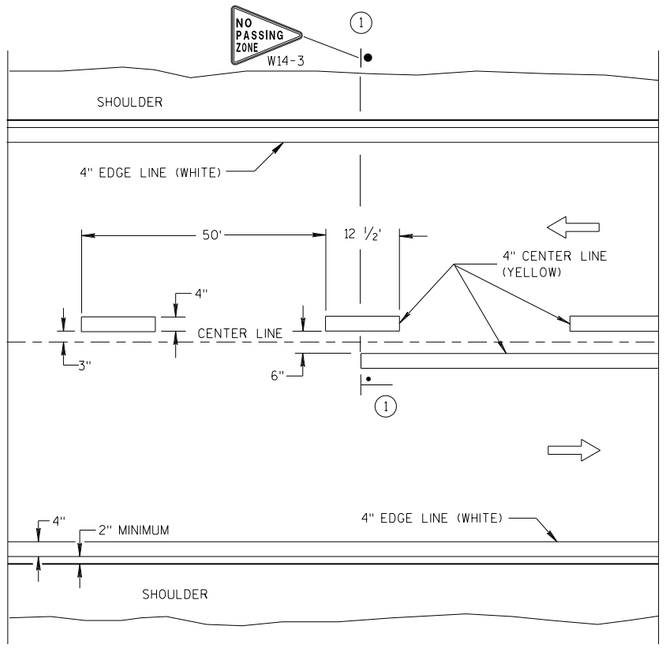
SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

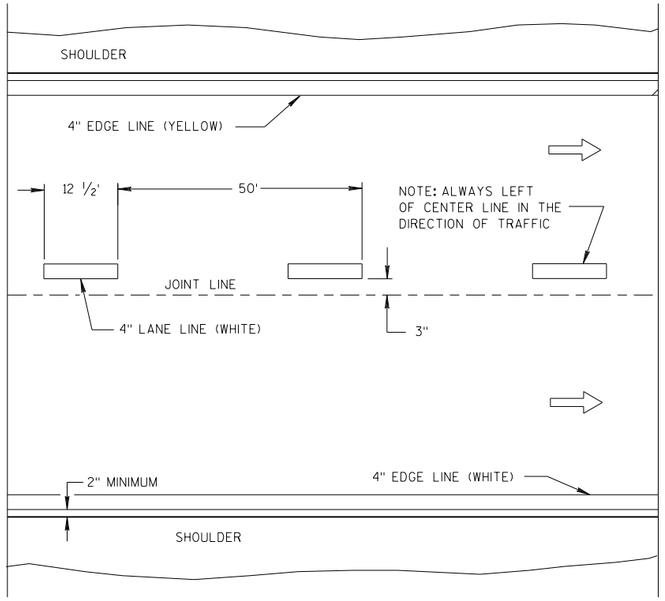
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR ...IEER
FHWA

6

S.D.D. 15 C 6-9



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

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

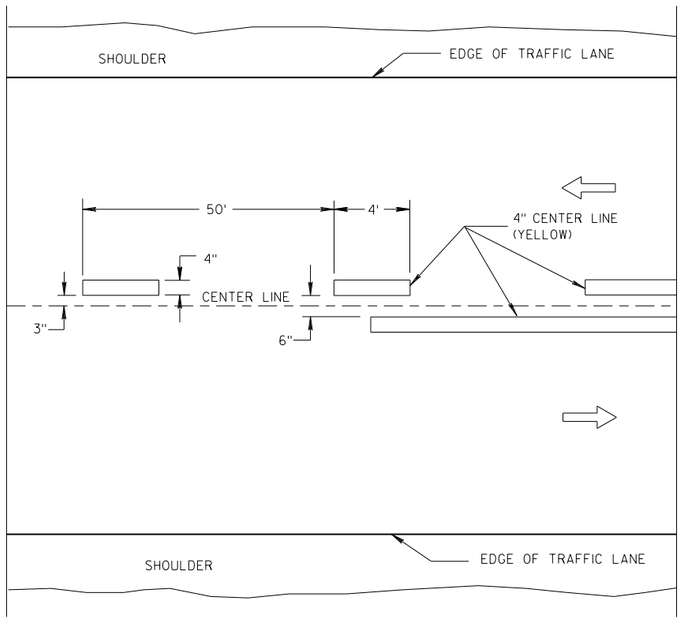
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

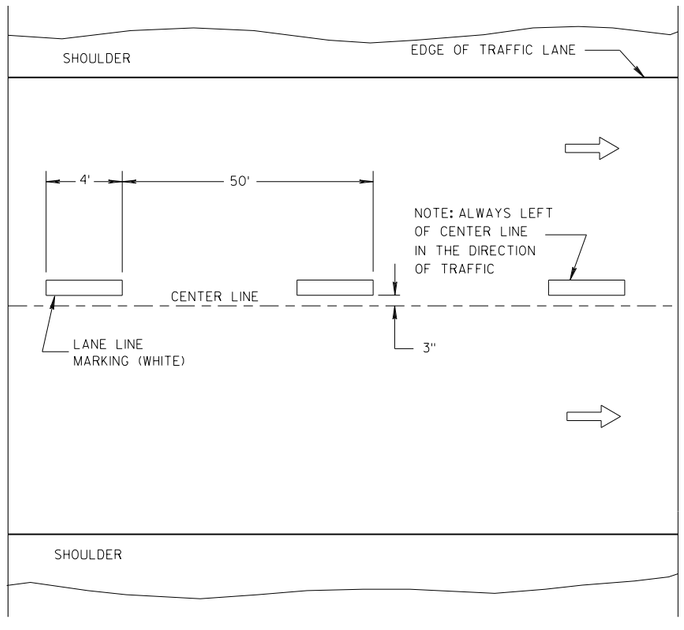
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

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S.D.D. 15 C 8-19a

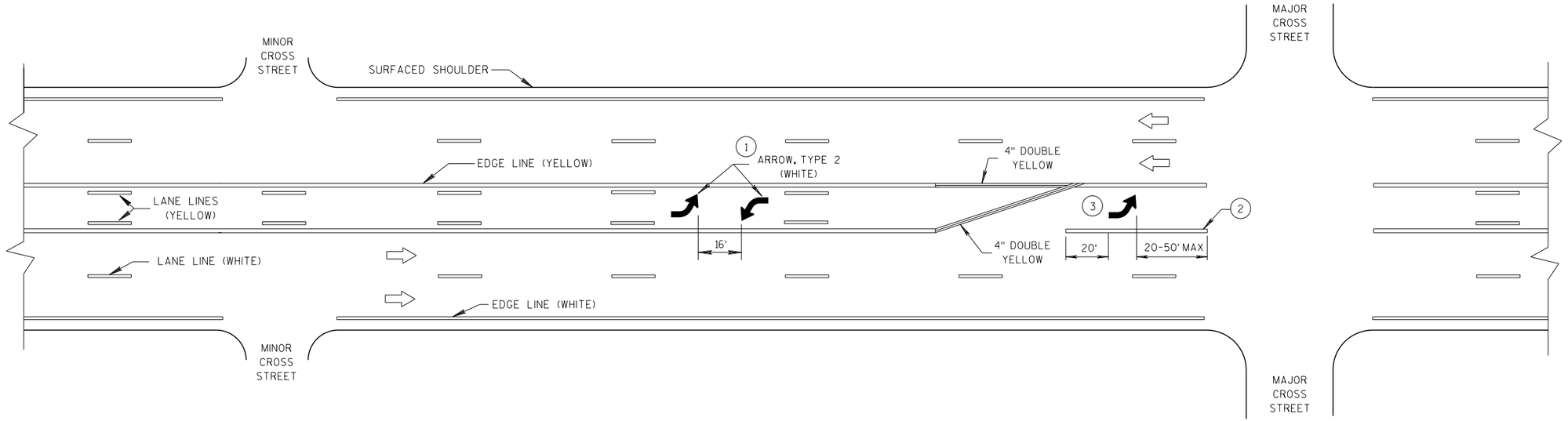
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S.D.D. 15 C 8-19a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



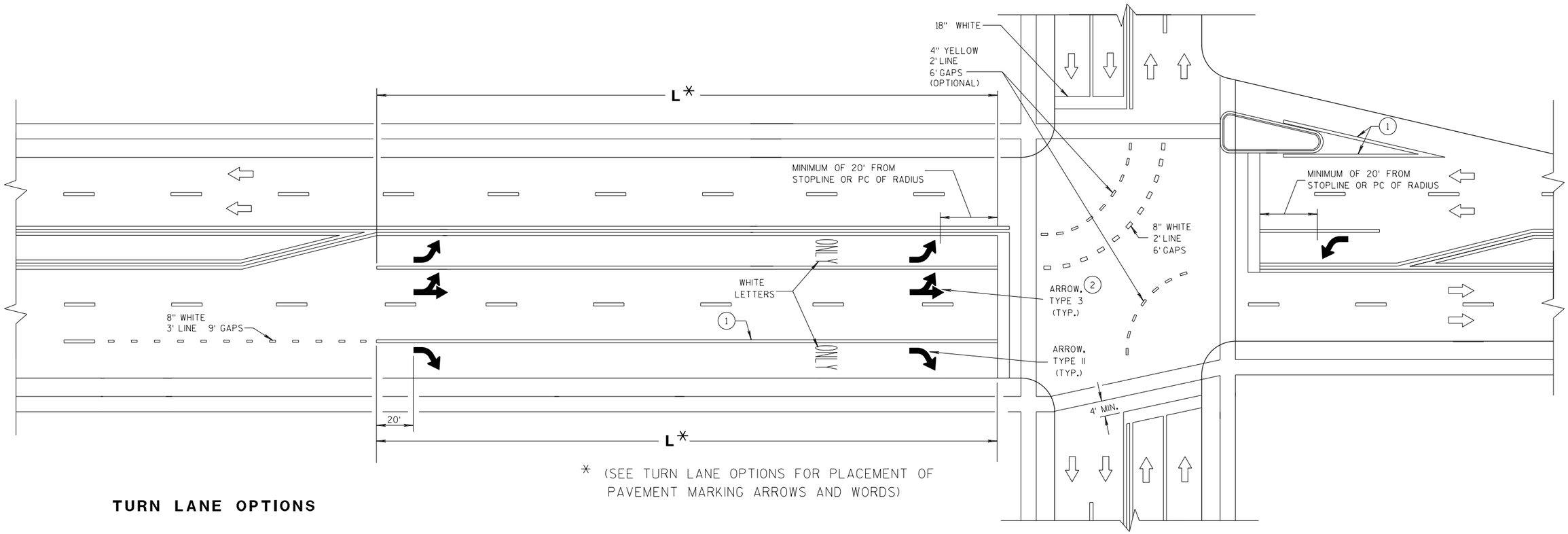
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

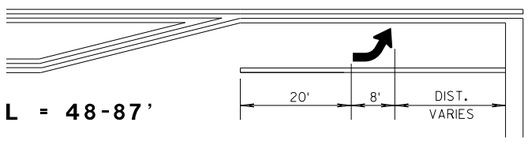
S.D.D. 15 C 8-19b



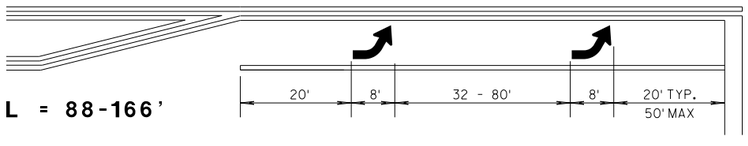
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

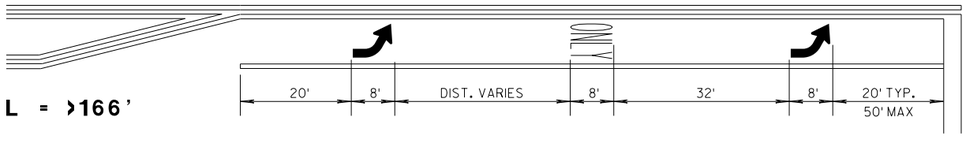
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

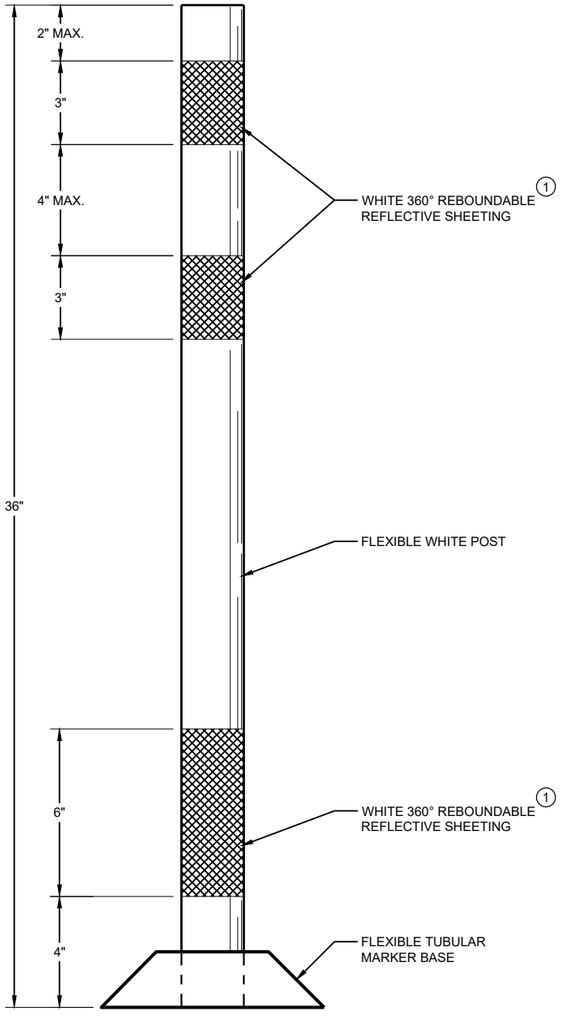
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

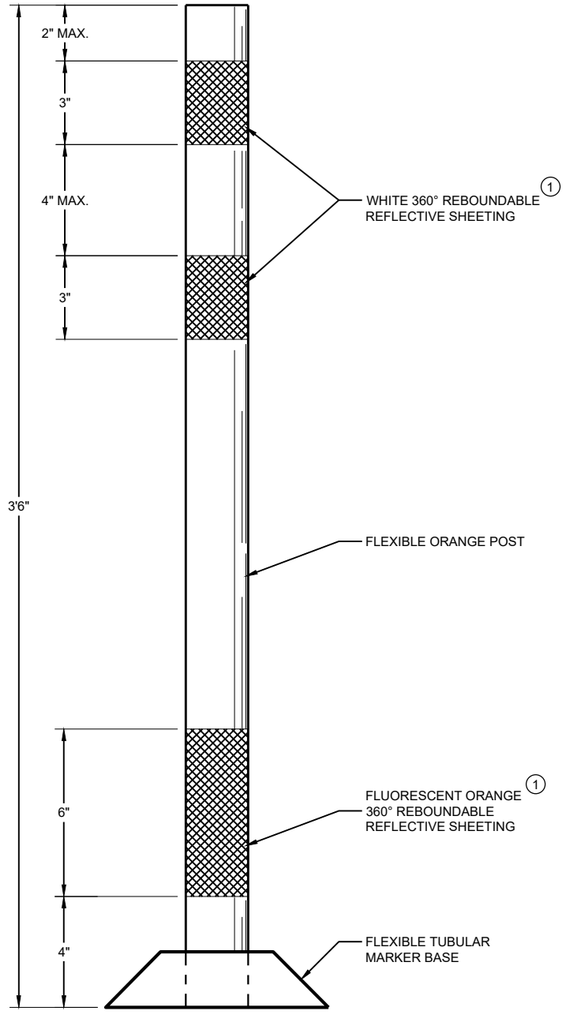
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT

6

S.D.D. 15 C 8-19c



FLEXIBLE TUBULAR MARKER POST PERMANENT CROSSOVER



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

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

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

SDD 15C11 - 07a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

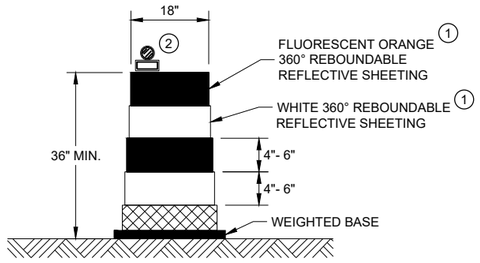
FHWA

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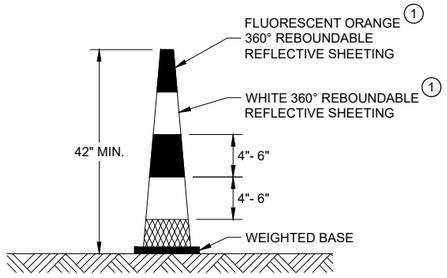
SDD 15C11 - 07a

GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

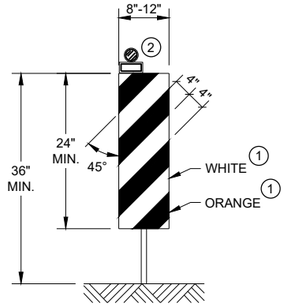


DRUM



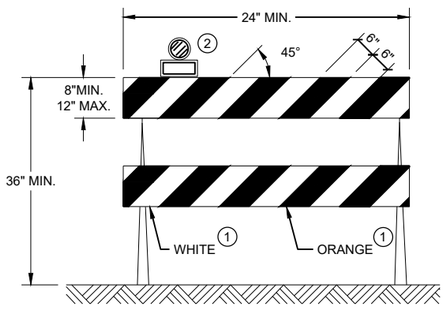
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



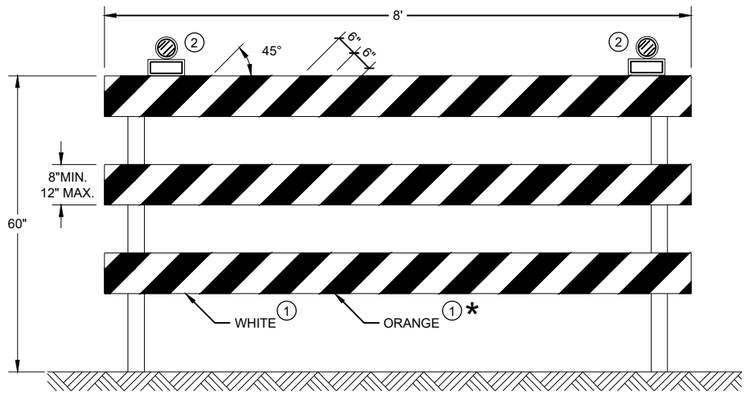
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

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SDD 15C11 - 07b

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SDD 15C11 - 07b

LEGEND

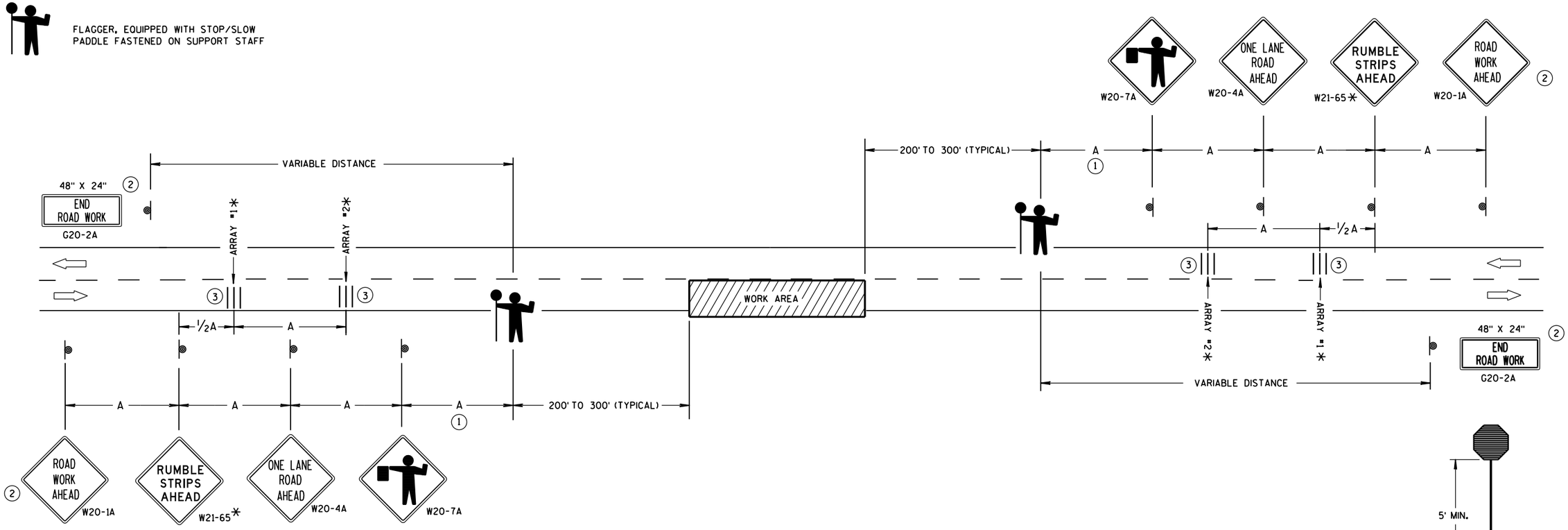
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

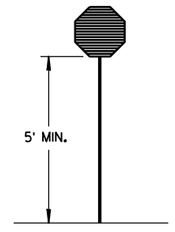
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.





STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

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

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

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

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

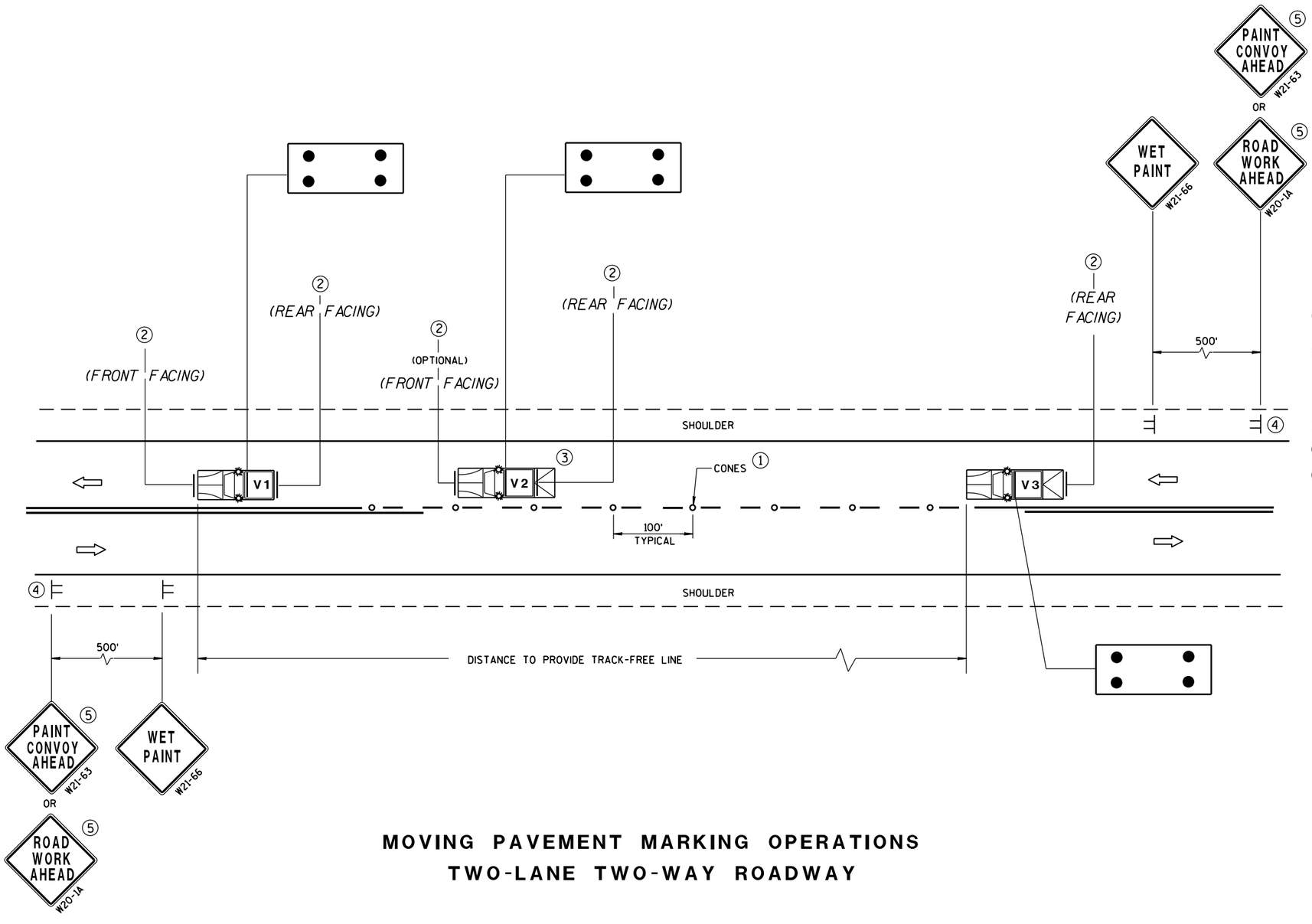
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENG
FHWA

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S.D.D. 15 C 12-6



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

- **V1** LEAD VEHICLE
- **V2** SHADOW VEHICLE
- **V3** TRAIL VEHICLE WITH TMA
- **TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

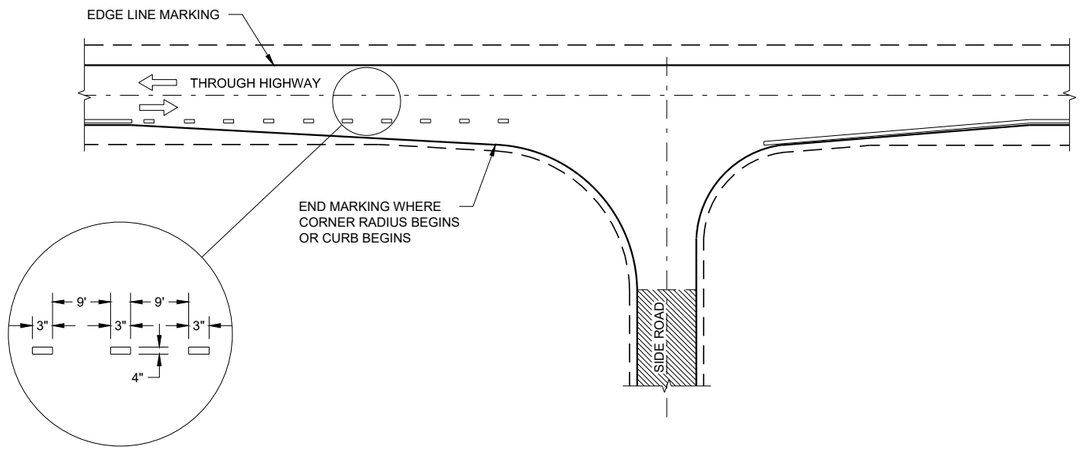
MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2017 DATE	/S/ Andrew Heldtke WORK ZONE ENGR
FHWA	

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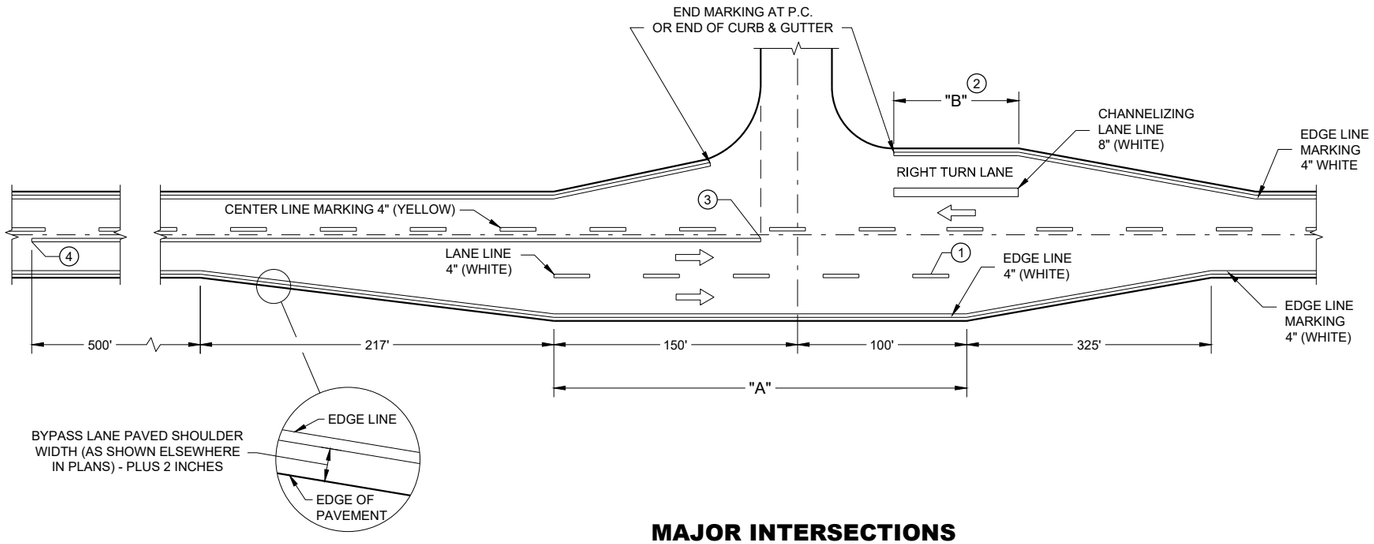
S.D.D. 15 C 19-5a

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S.D.D. 15 C 19-5a



MINOR INTERSECTION



MAJOR INTERSECTIONS

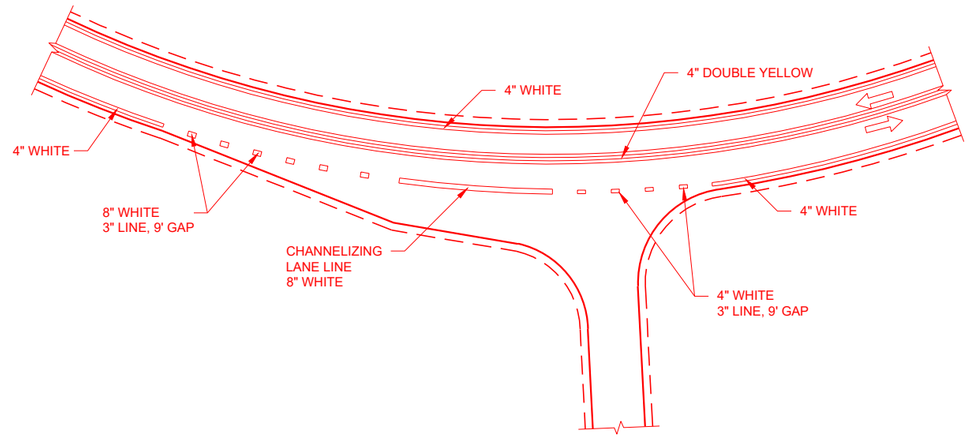
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

6

SDD 15C35 - 03a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
W / S	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L= WS AT 45 MPH OR GREATER
L = WS² / 60 AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = 1/3L

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

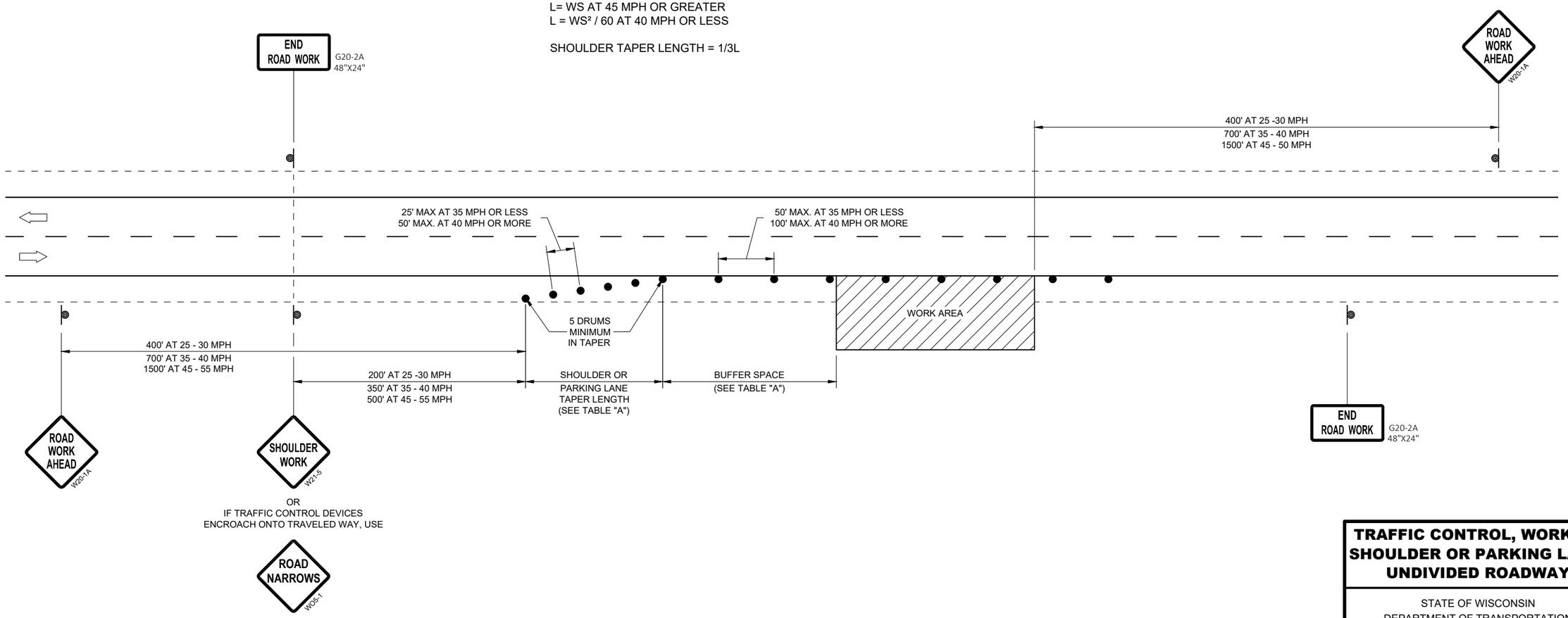
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY RESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

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SDD 15D28 - 03

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLAGS, 16" X 16" MIN. (ORANGE)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- ASPHALTIC PAVEMENT WIDENING
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SIGNAL. SEE SDD 09G02 FOR EXACT PLACEMENT

1. 500 FOOT SPACING SHOWN IS FOR ROADWAYS WITH A PRE-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35 - 40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25 - 30 MPH, USE 200 FOOT TYPICAL SPACING.
2. USE 300 FOOT SPACING IF THE PRE - CONSTRUCTION REGULATORY SPEED IS 35 MPH OR LESS.
3. DIMENSION DETERMINED BY CBTP TAPER FROM EDGE LINE TO TANGENT SECTION OF THE ROAD.
4. TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18 - INCH.
5. 700 FOOT TEMPORARY MARKING DOUBLE YELLOW LINE 4 - INCH. WHEN THE DISTANCE FOR THE PRECEDING NO - PASSING ZONE IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES AS INDICATED IN THE SPECIFICATIONS, THE TWO ZONES SHALL BE CONNECTED.
6. SEE SDD 15C02 - SHEET "F" FOR ADVANCED WIDTH RESTRICTION SIGNING.

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

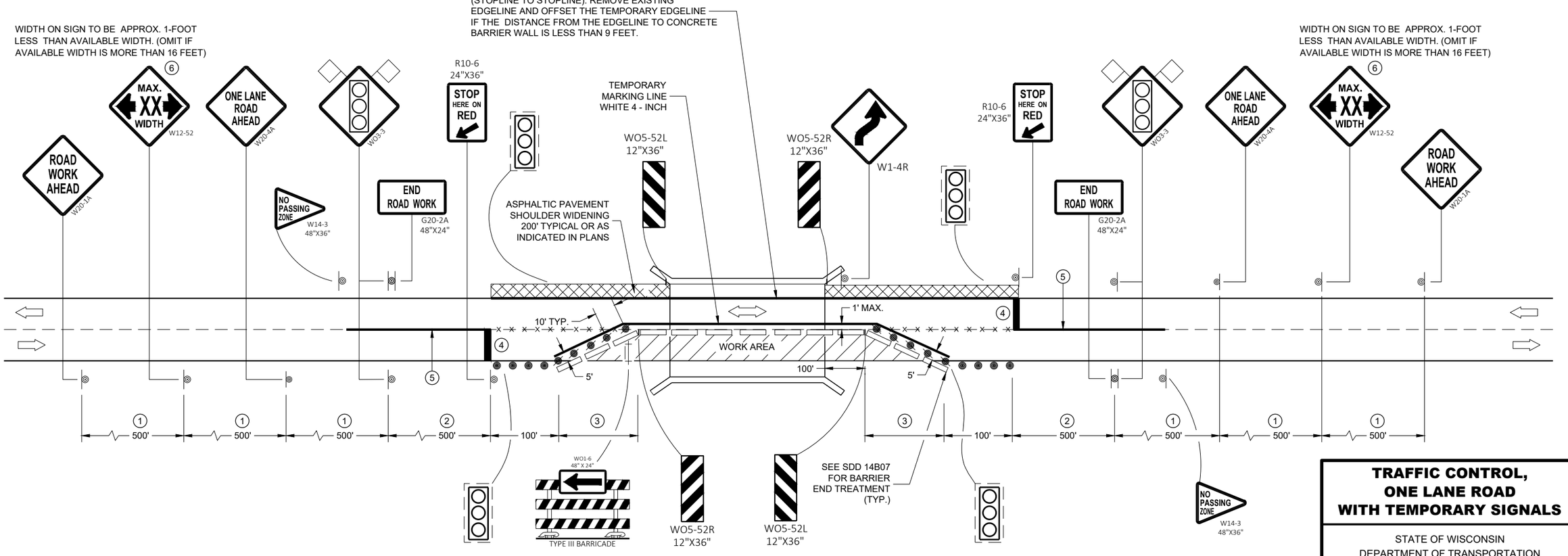
THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 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 OR AS APPROVED BY THE ENGINEER.

PLACE TEMPORARY PAVEMENT MARKING EDGELINE AND CENTERLINE AND REMOVE EXISTING PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS OR AS NOTED ON DETAIL.



TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

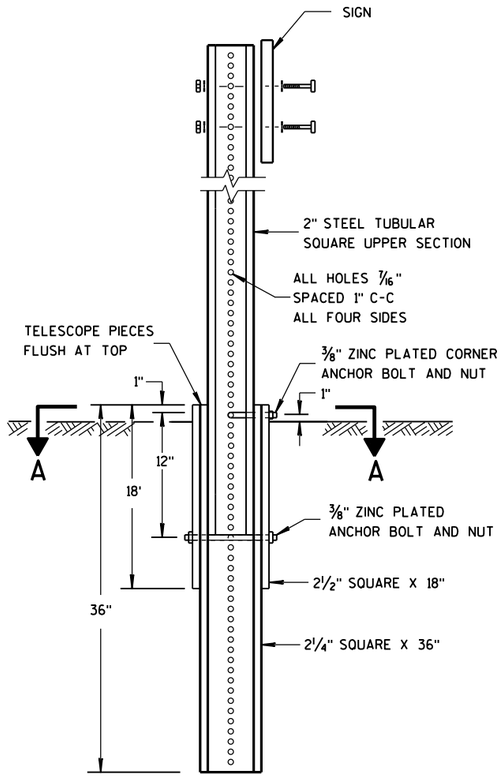
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

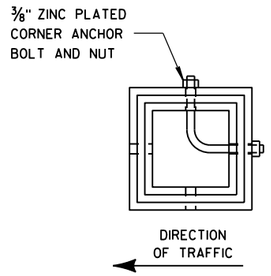
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SDD 15D33 - 05

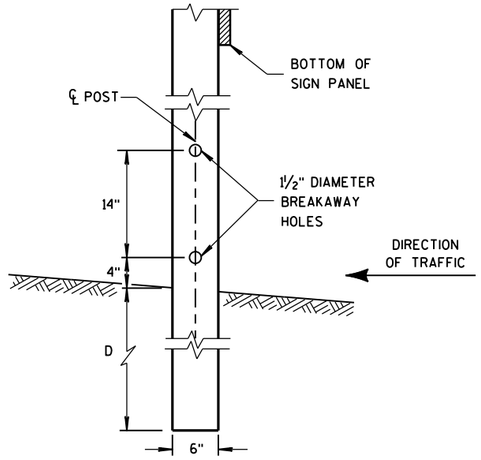
SDD 15D33 - 05



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



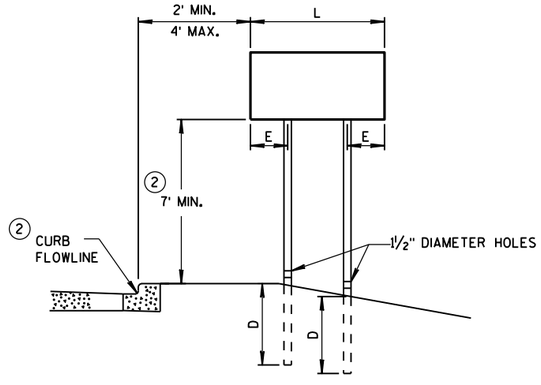
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

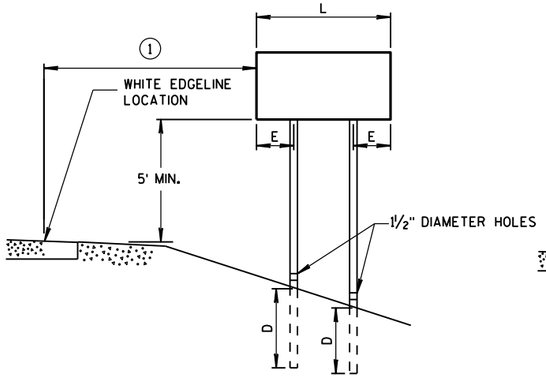
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

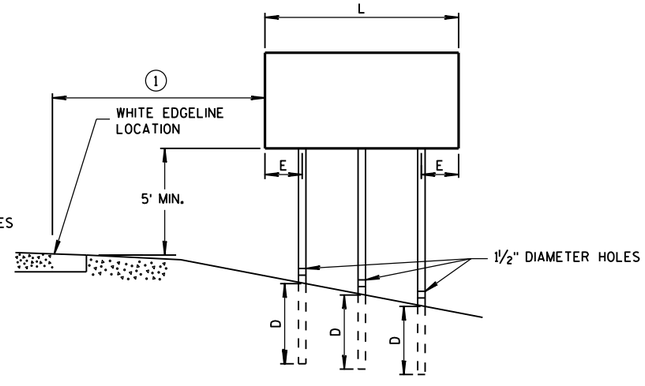
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK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

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



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

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

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

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

WOOD POST EMBEDMENT DEPTH

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

4" X 6" WOOD POST

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

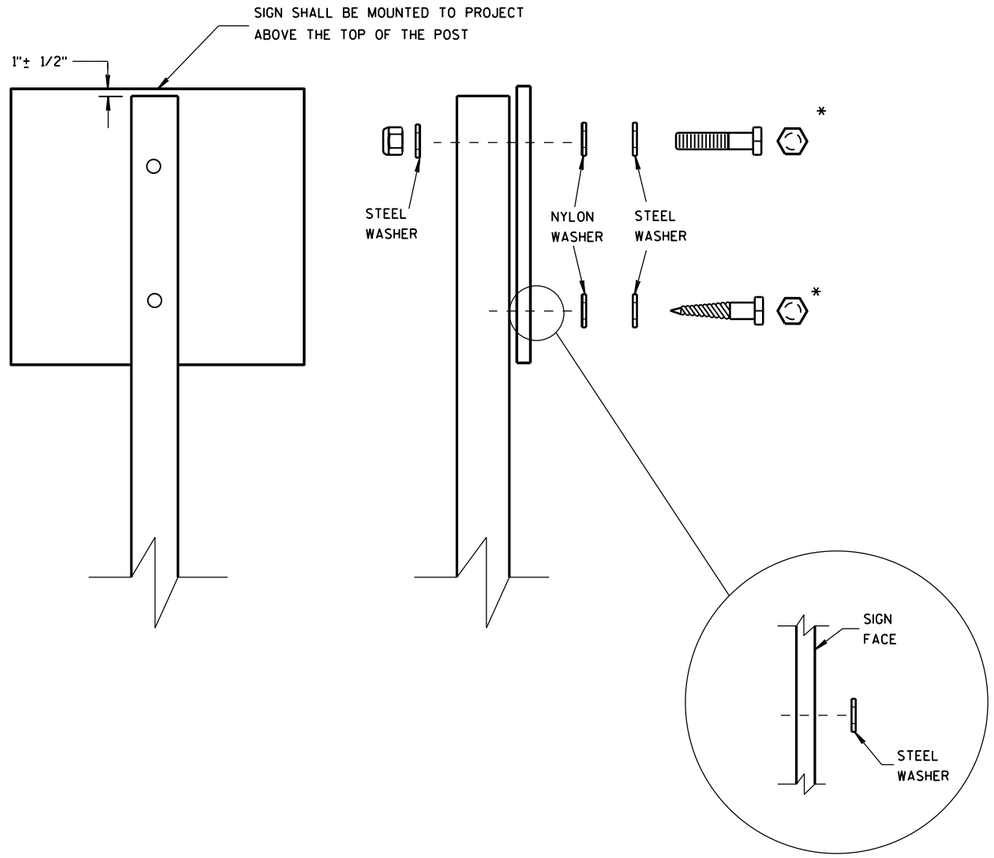
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 D 38-2a



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

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

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

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

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

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

LAG SCREWS - 3/8" X 3"

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

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

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

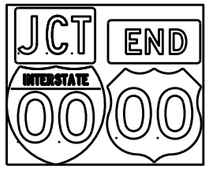
/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

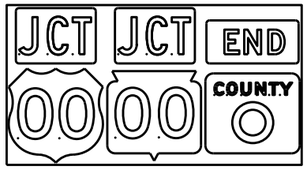
TYPICAL ASSEMBLIES



J1-1



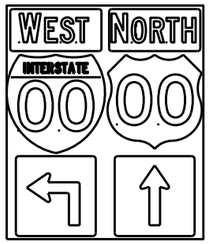
J1-2



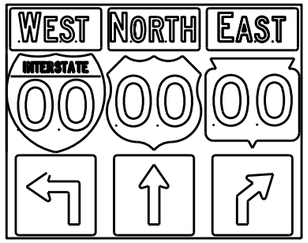
J1-3



J2-1



J2-2

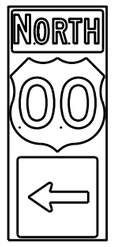


J2-3

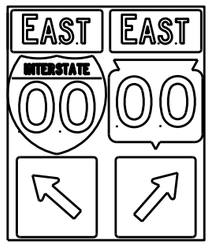


JV

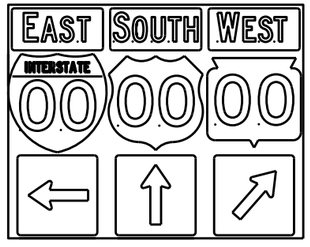
(Typical Vertical J-Assembly
See Note 10 and 11)



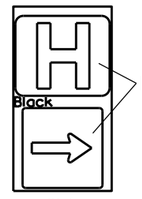
J3-1



J3-2



J3-3

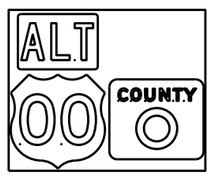


Blue Background

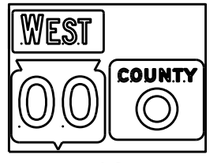
JH-1



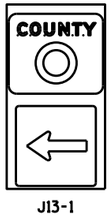
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

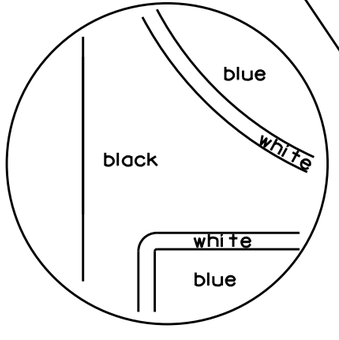


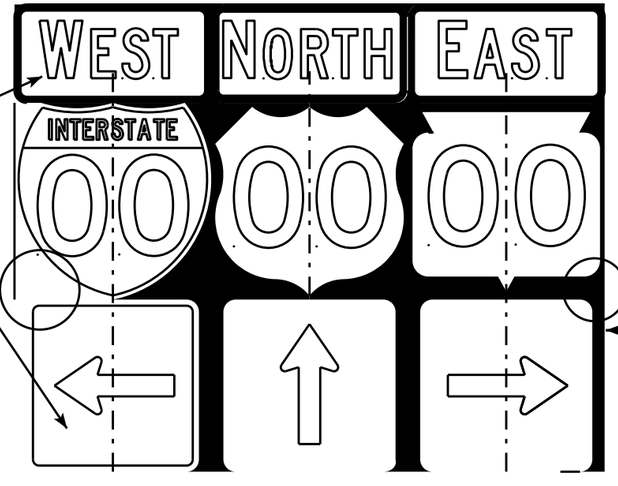
J23-1

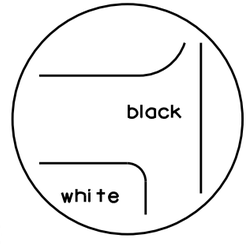


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

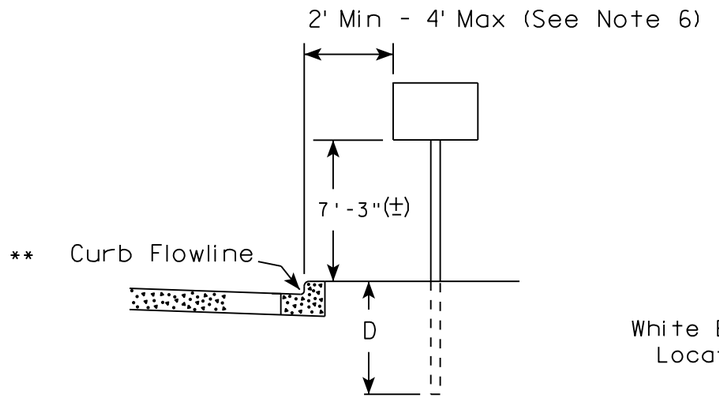
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

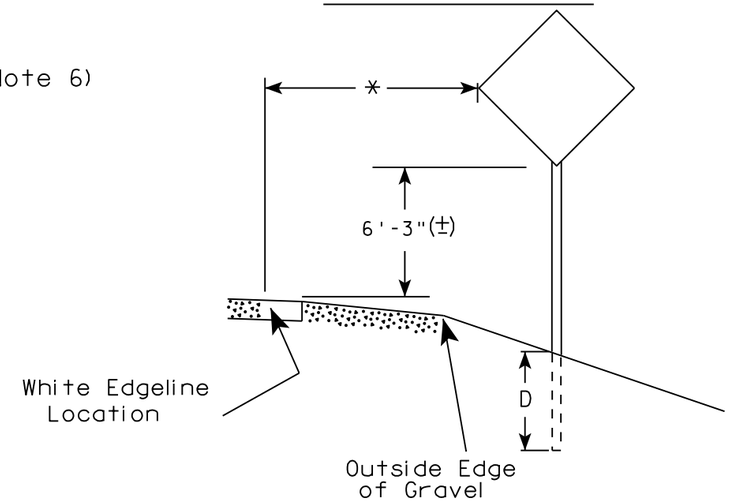
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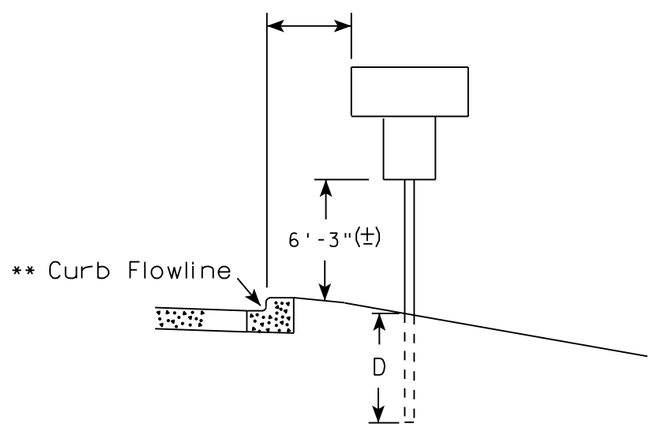
WISDOT/CADDS SHEET 42

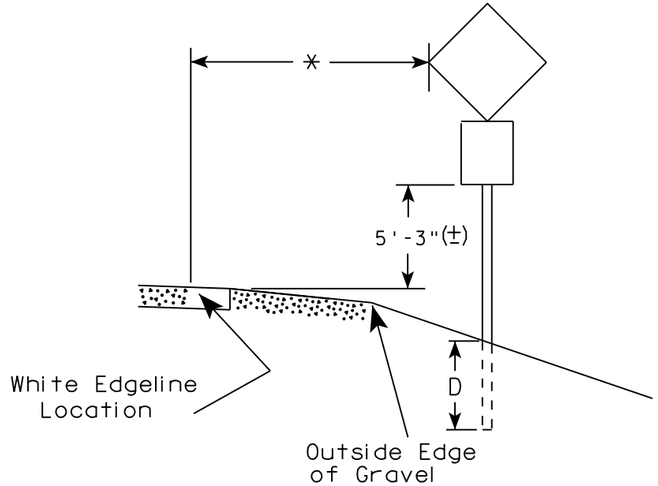
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

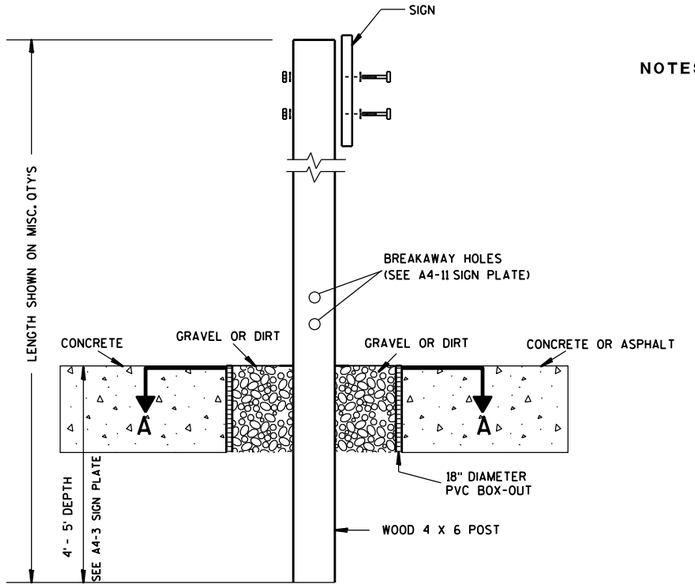
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

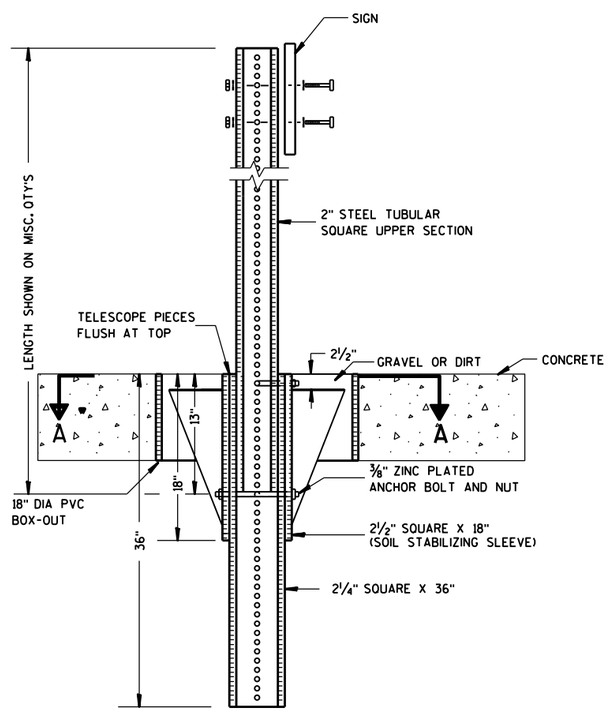
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 201	E



ELEVATION VIEW

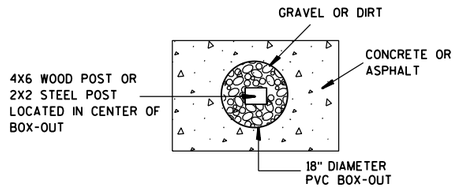
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

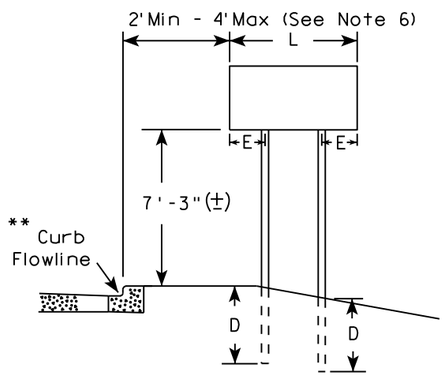
APPROVED Matthew R Rauch
for State Traffic Engineer

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

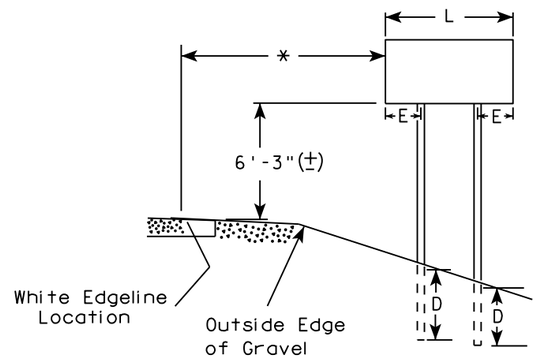
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

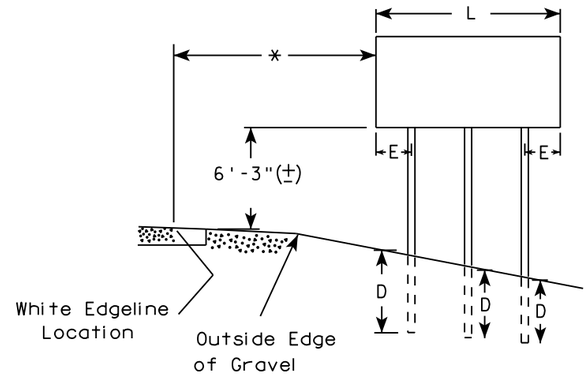
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WISDOT/CADDS SHEET 42

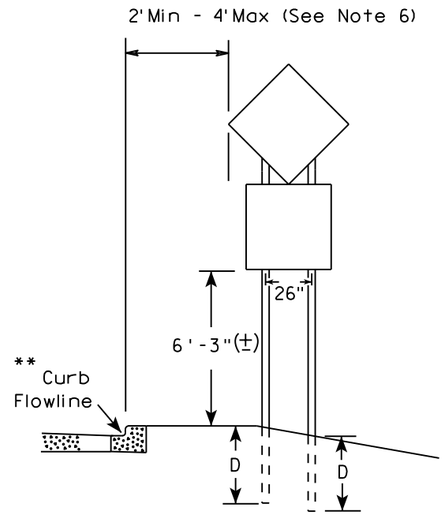
URBAN AREA



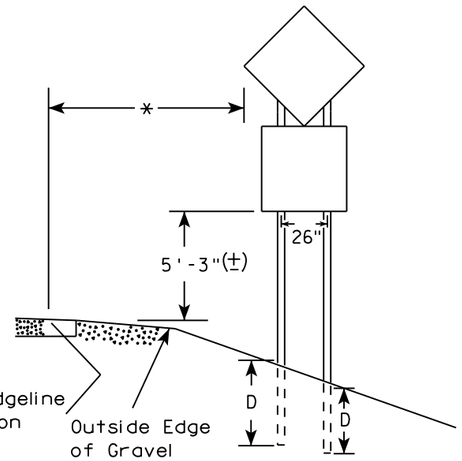
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

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. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

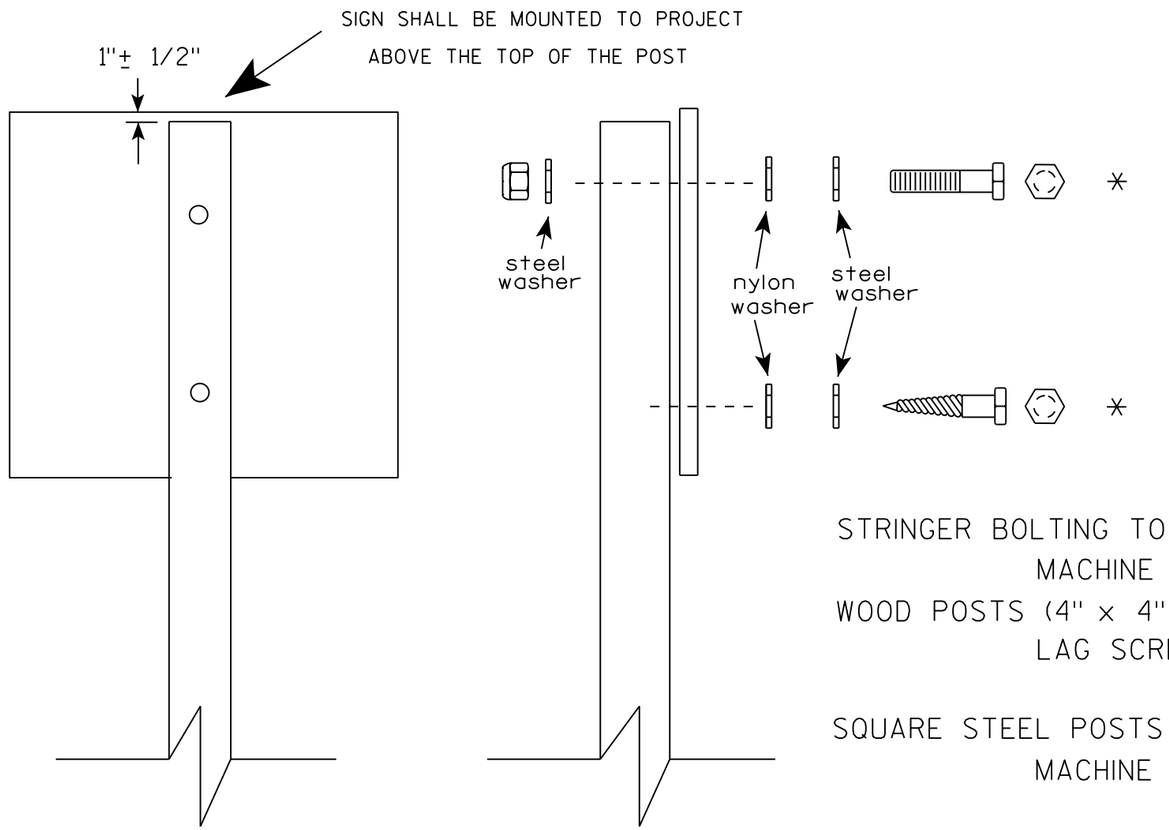
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 203	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

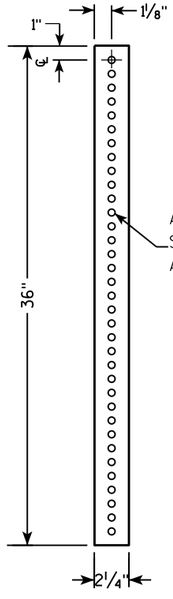
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PROJECT NO: SHEET NO: E

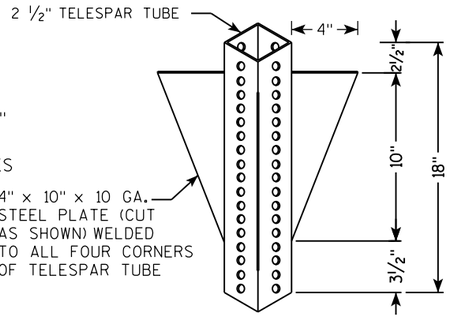
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TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

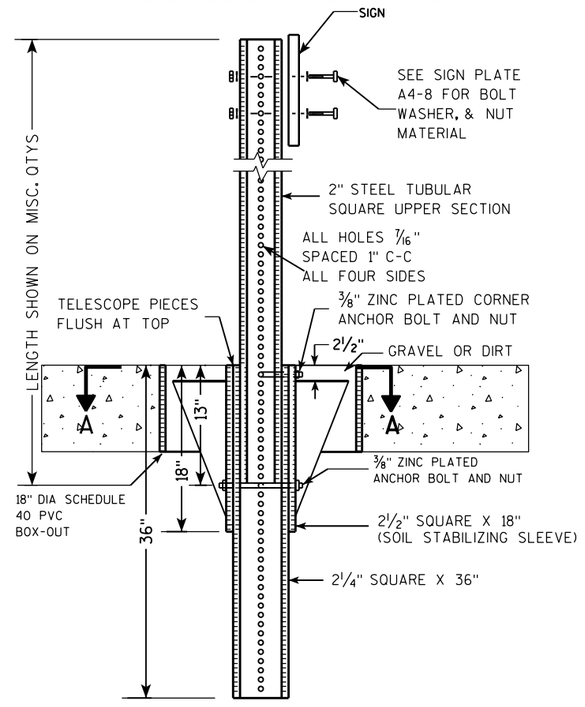
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



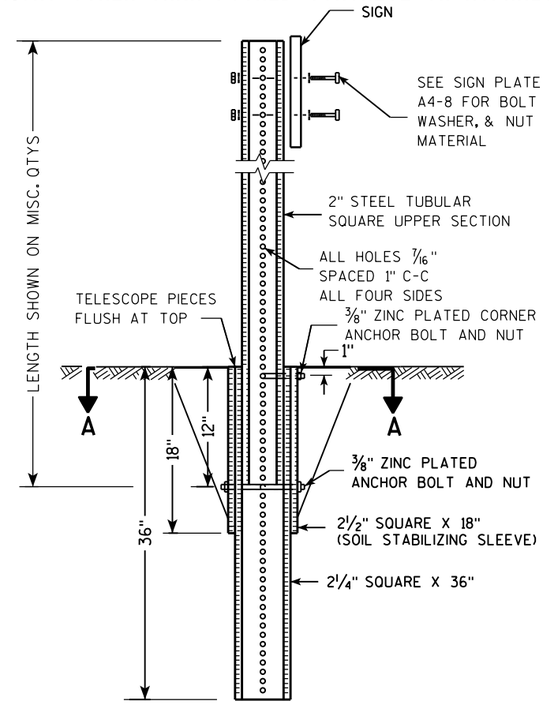
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

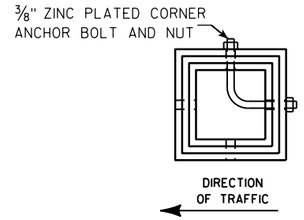


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

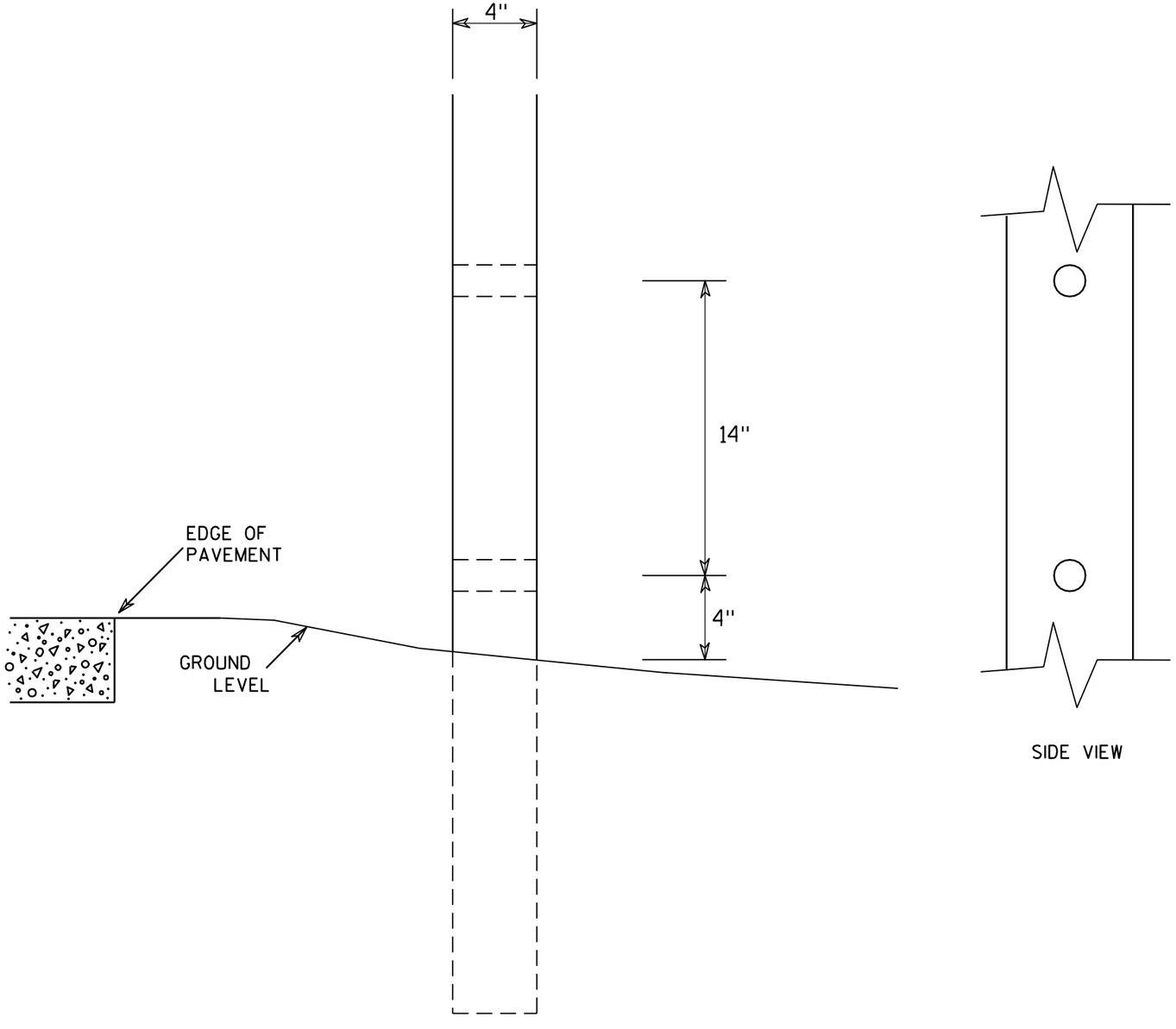
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 205 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

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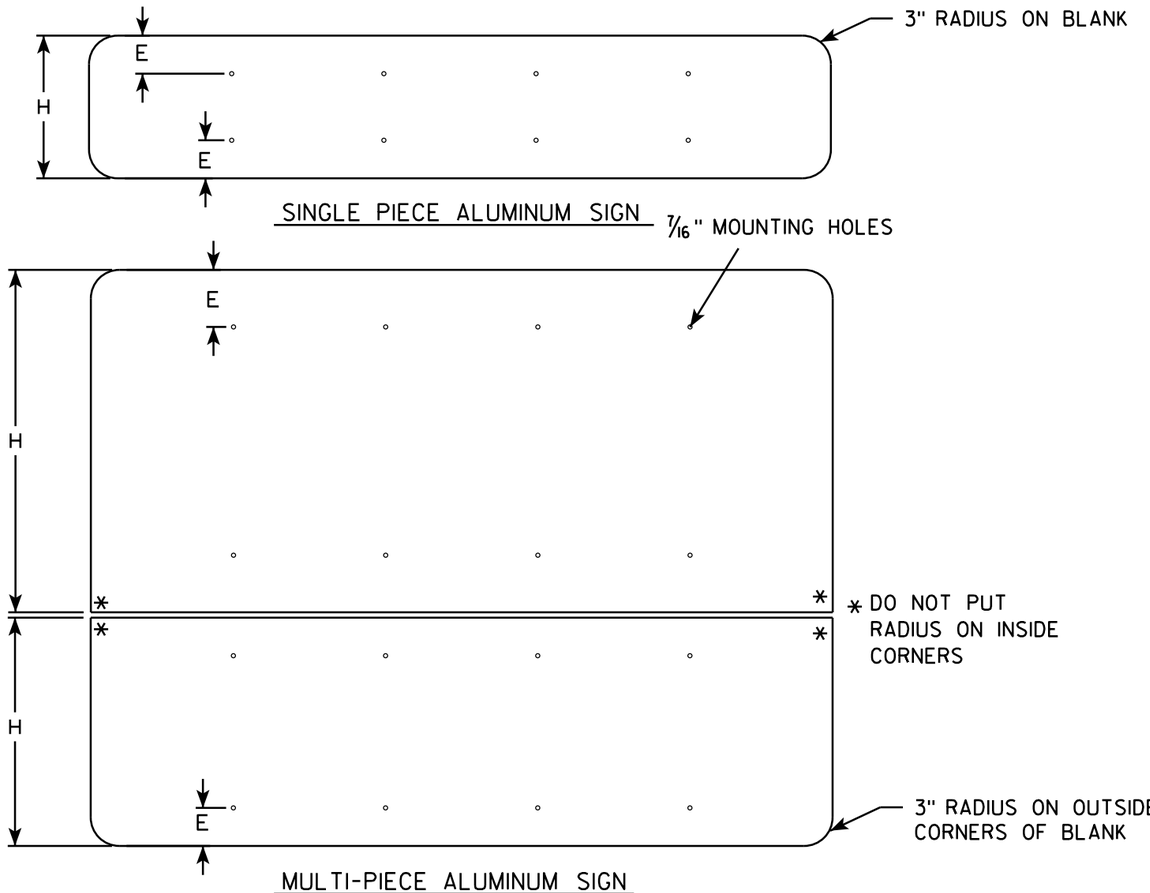
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

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

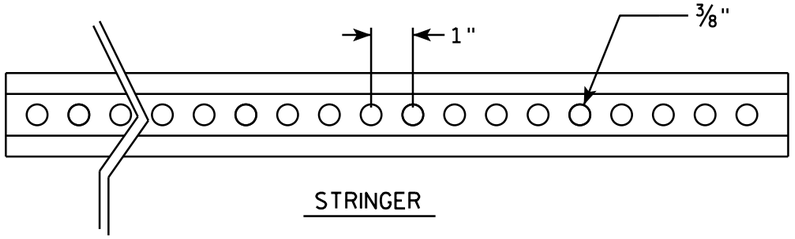
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 206	E



GENERAL NOTES

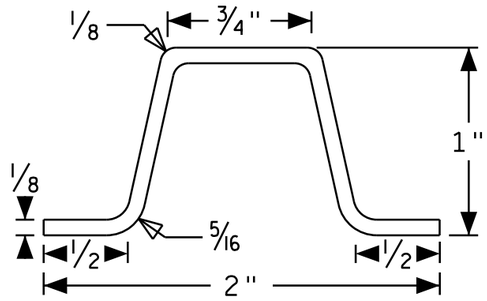
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER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

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

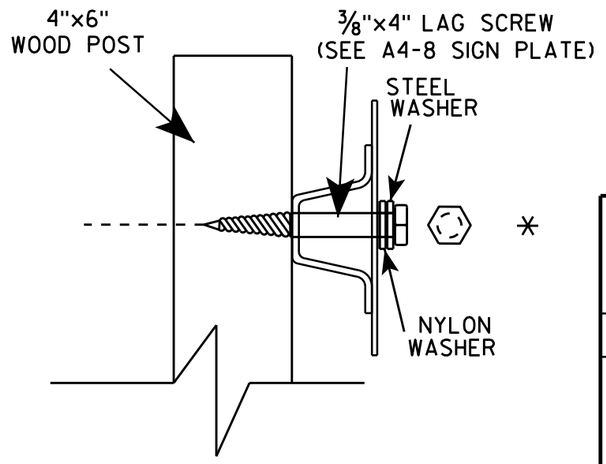


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

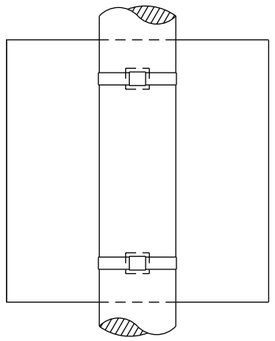
DATE 4/26/16 PLATE NO A4-18.1

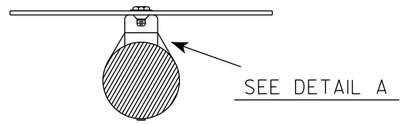
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

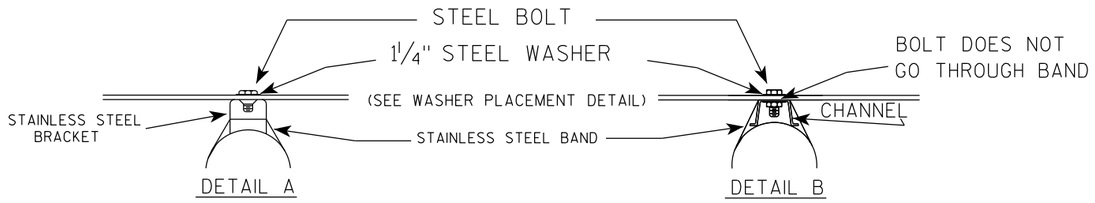
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

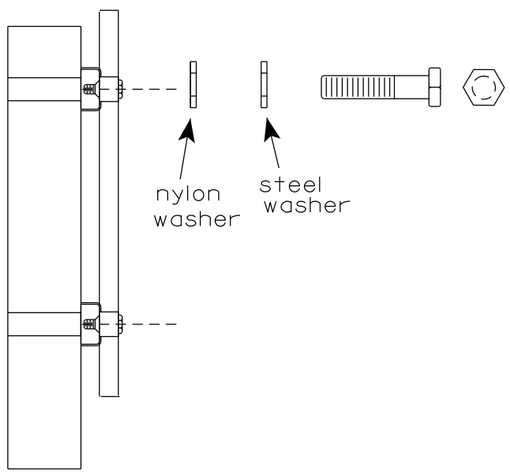
SINGLE SIGN







WASHER PLACEMENT

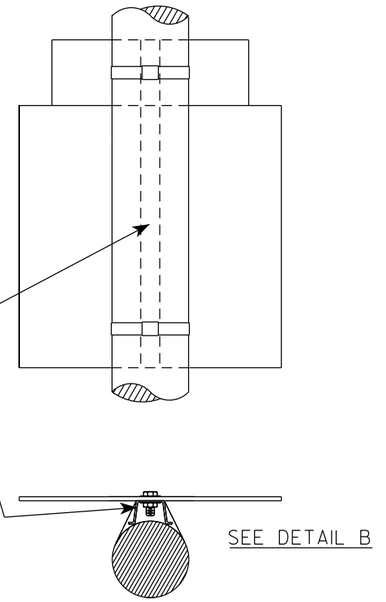


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

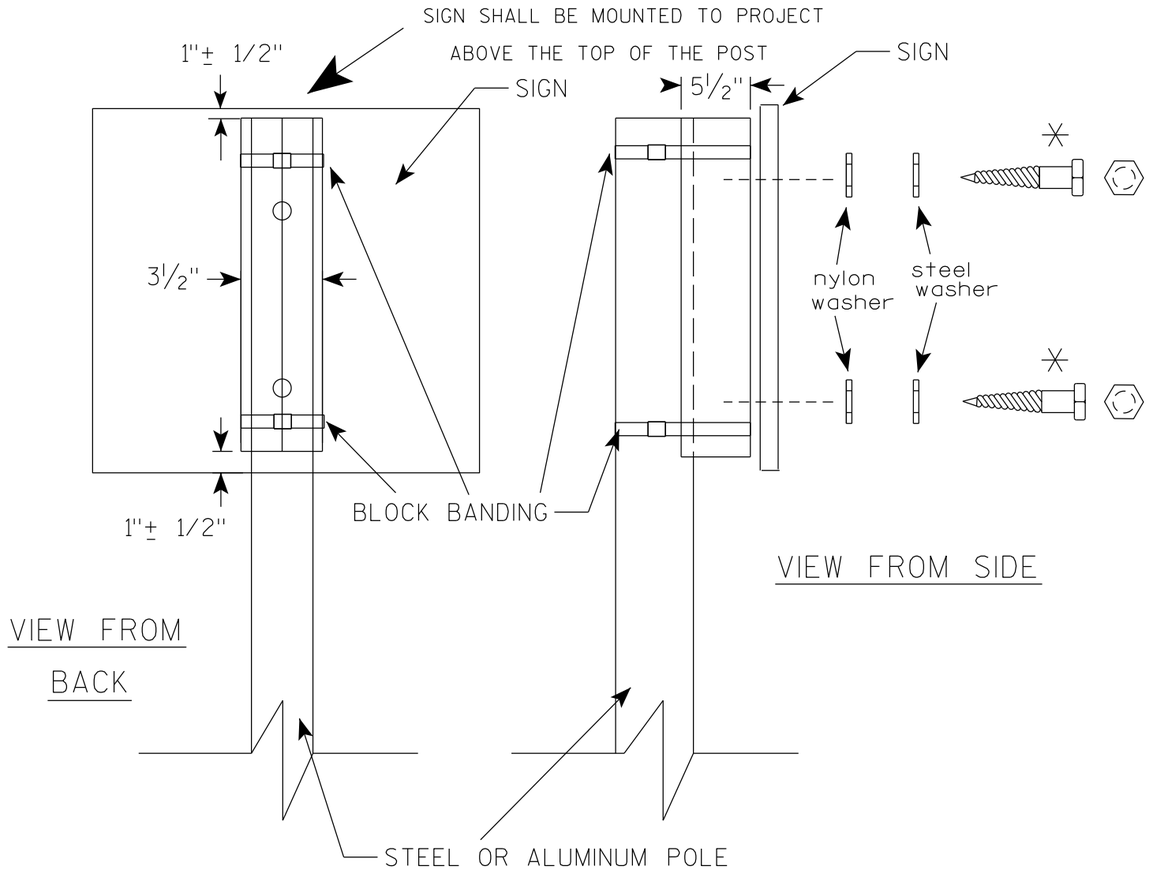
DATE 6/10/19 PLATE NO. A5-9.4

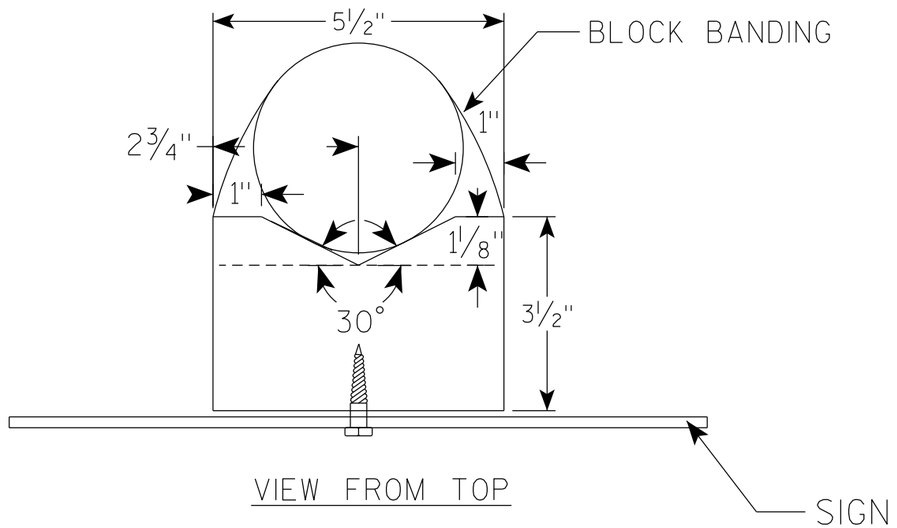
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 208	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

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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
   b. 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"

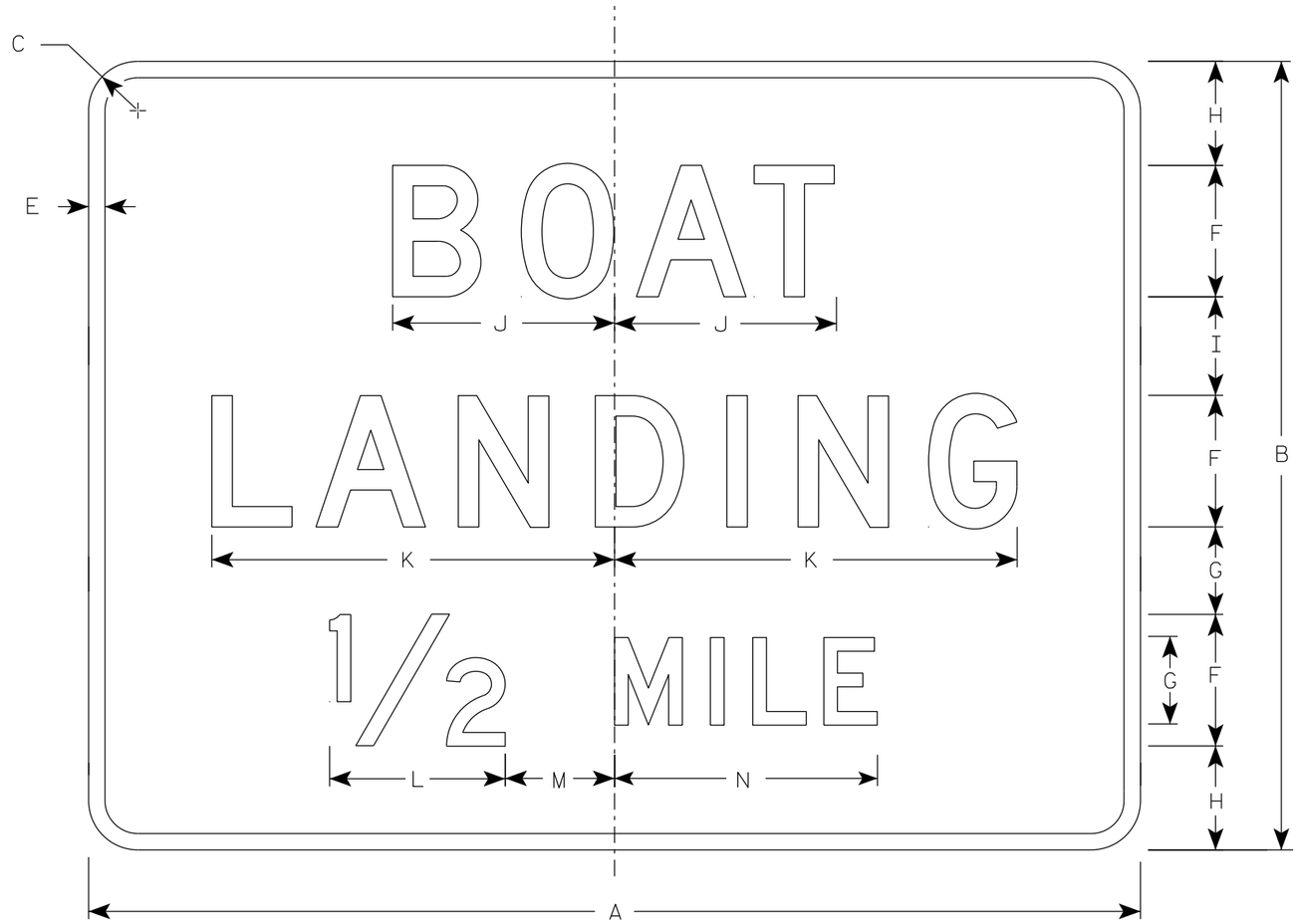
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 209 | E



D7-54

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Brown
   Message - White
3. Message Series - D

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	48	36	2 1/4		3/4	6	4	4 3/4	4 1/2	10 1/8	18 3/8	8	4	12													12.0
3	60	48	3		1	8	6	6	6	13 1/2	23 3/8	10 5/8	6	18 7/8													20.0
4																											
5																											

STANDARD SIGN
D7-54

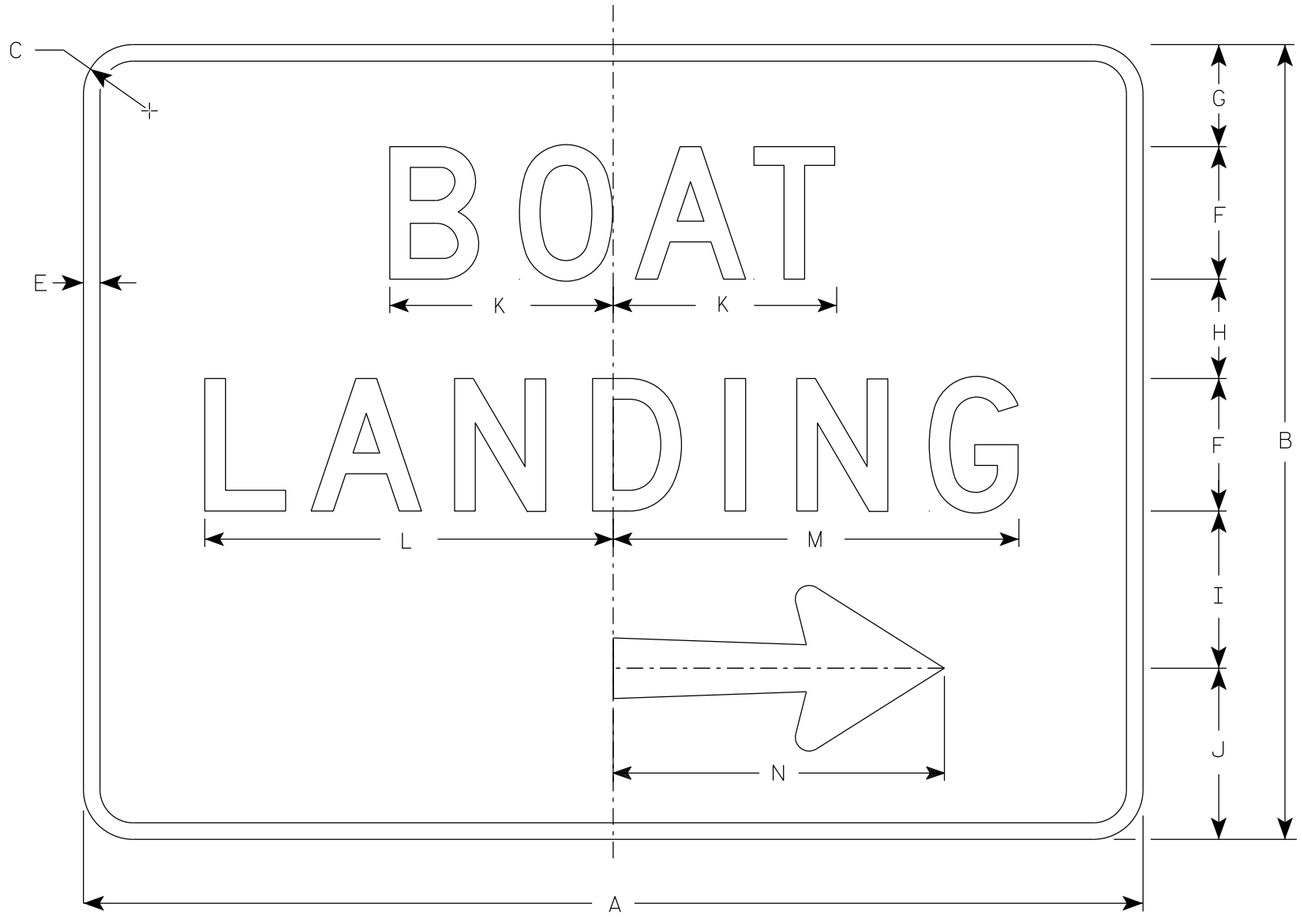
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/2/19 PLATE NO. D7-54.7

PROJECT NO:

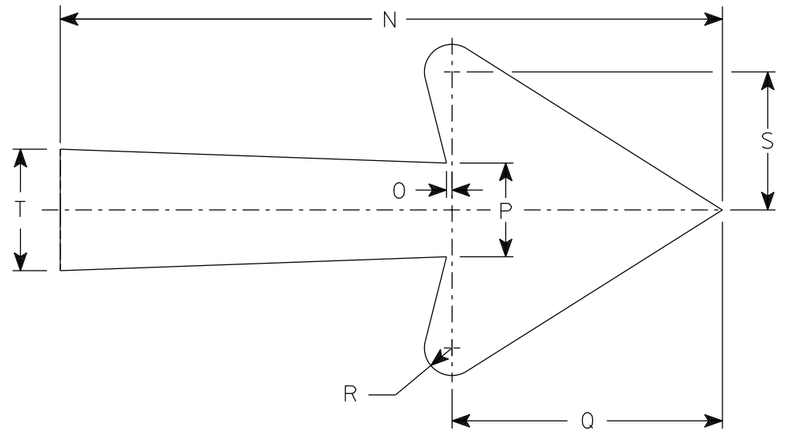
SHEET NO: 210 E



D7-56R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Brown
   Message - White
3. Message Series - D
4. D7-56L is the same as D7-56R 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	48	36	2 1/4		3/4	6	4 5/8	4 1/2	7 1/8	7 3/4	10 1/8	18 1/2	18 3/8	15	1/8	2 1/8	6 1/8	5/8	3 1/8	2 3/4							12.0
3	60	48	3		1	8	6	6	10	10	13 1/2	23 3/8	23 3/8	21	1/4	2 3/4	7 7/8	3/4	4	4 1/4							20.0
4																											
5																											

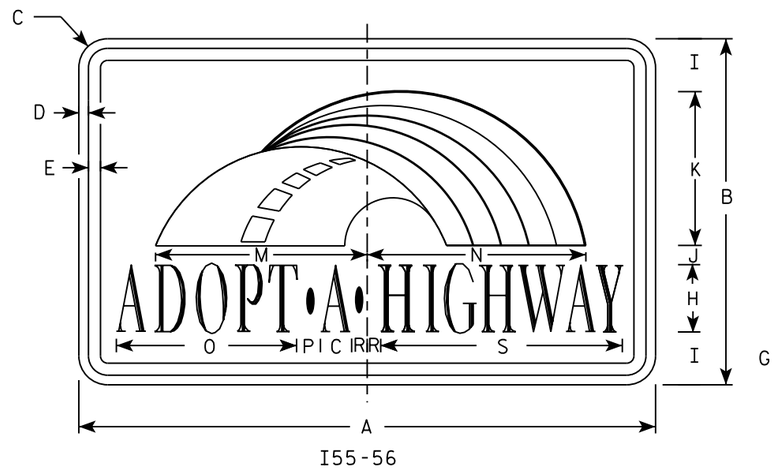
STANDARD SIGN
D7-56

WISCONSIN DEPT OF TRANSPORTATION

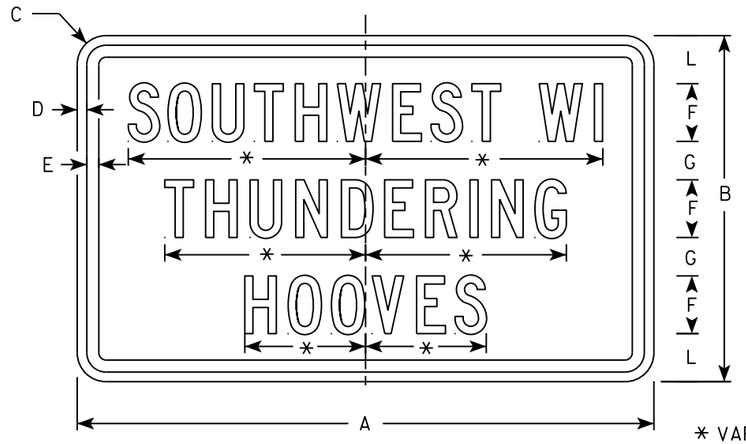
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/9/19 PLATE NO. D7-56.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 211	E



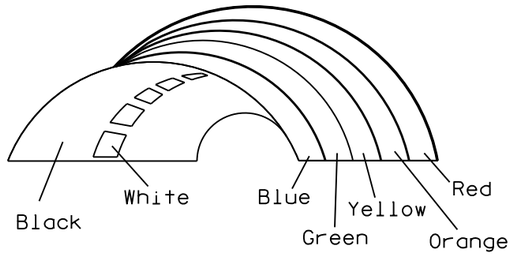
I55-56



I55-56P

* VARIES

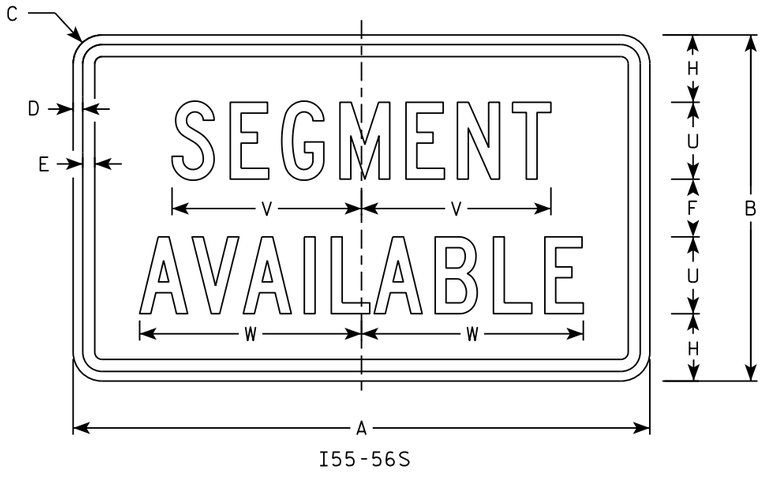
Background Colors of Symbol*



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

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - (See Note 4)
3. Message Series - (See Note 5)
4. Border - Blue
   Adopt a Highway - Red
   All other Text - Blue
5. Adopt a Highway - Dutch 8011L
   All other Text - Series C
6. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.



I55-56S

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	18	1 1/2	1/2	5/8	3	2	3 1/2	2 3/4	1	8	2 1/2	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 7/8	11 1/2				3.75
3																											
4																											
5																											

STANDARD SIGN
I55-56

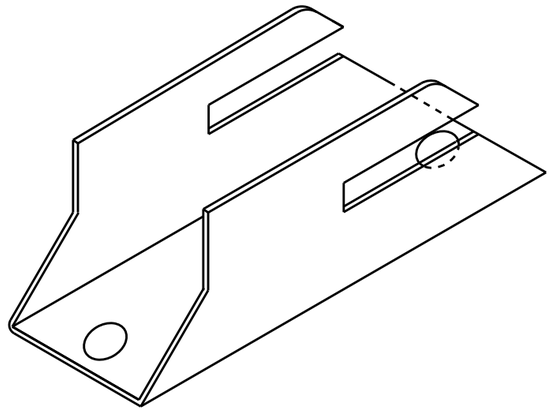
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

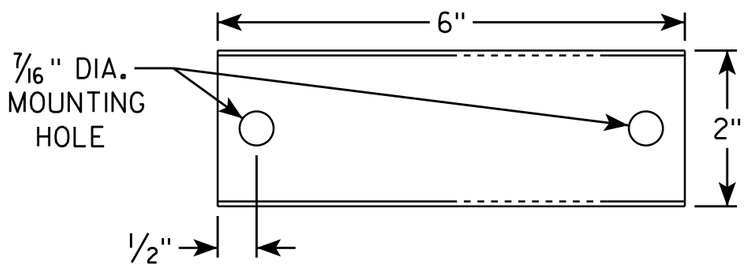
DATE 2/20/18 PLATE NO. I55-56.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 212 | E

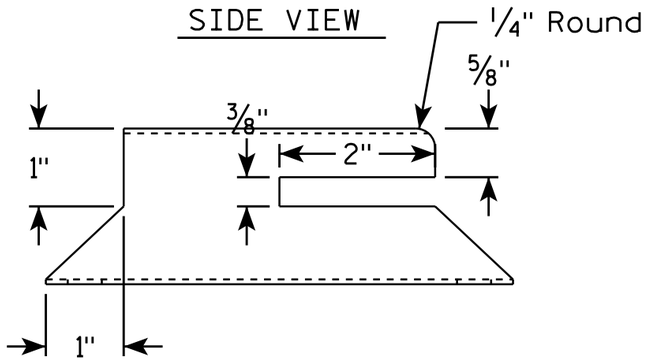
ISOMETRIC VIEW



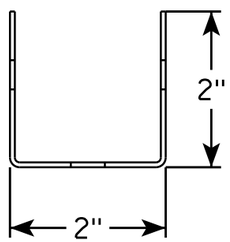
TOP VIEW



SIDE VIEW



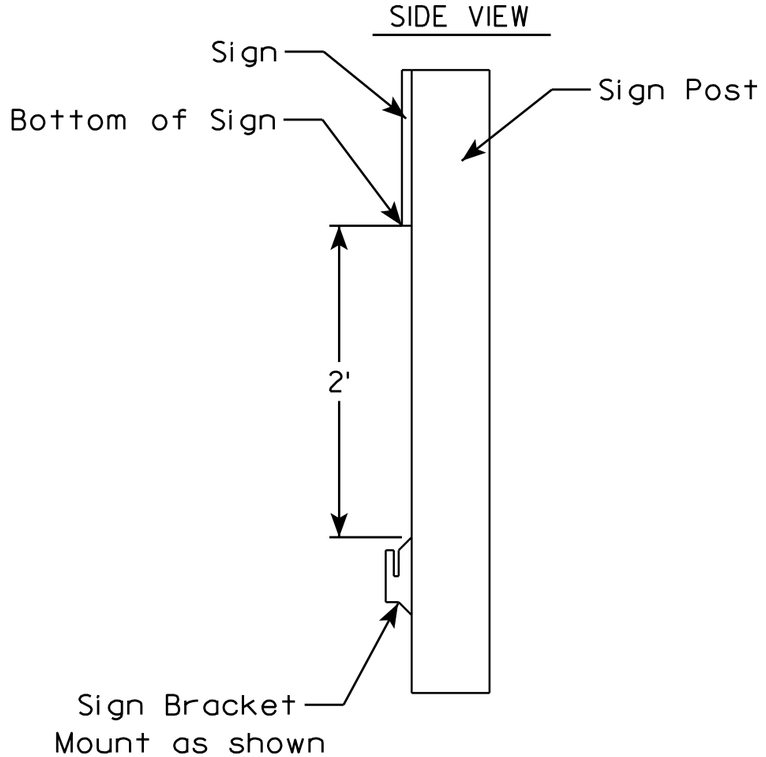
END VIEW



NOTES

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

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

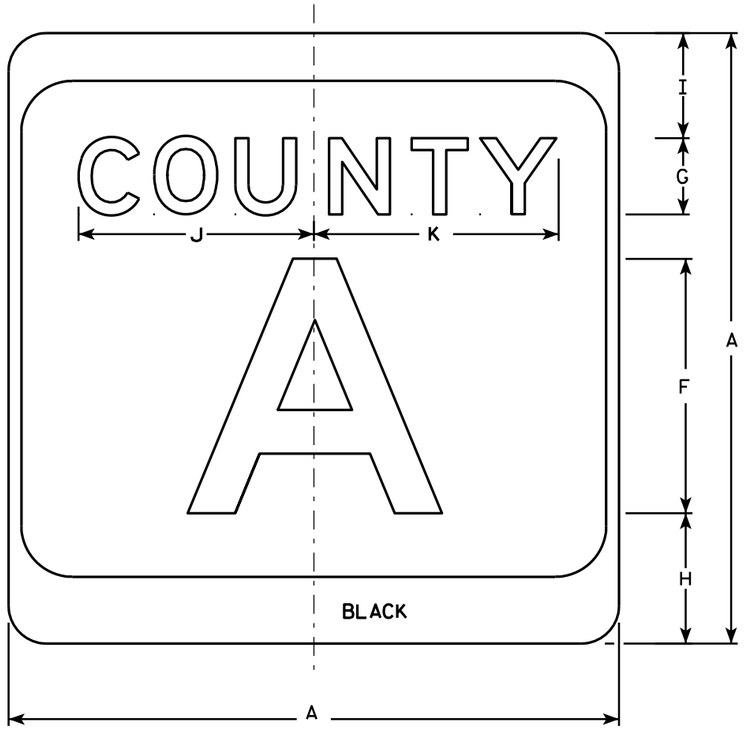
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

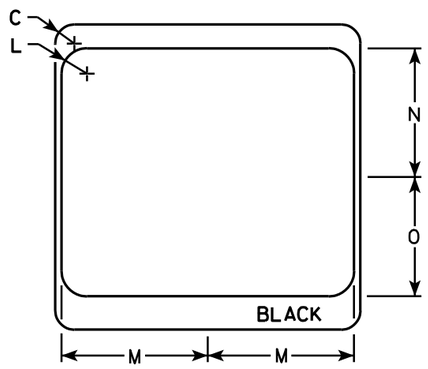
DATE 4/26/16 PLATE I55-56B.2

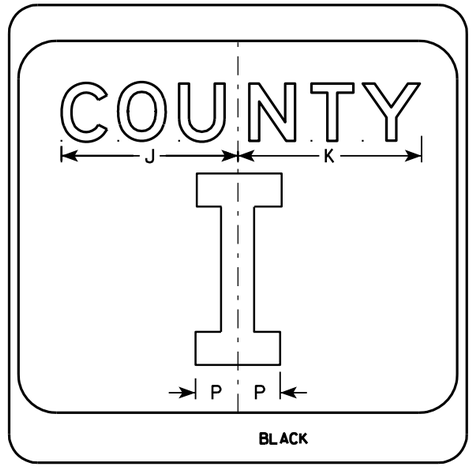
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

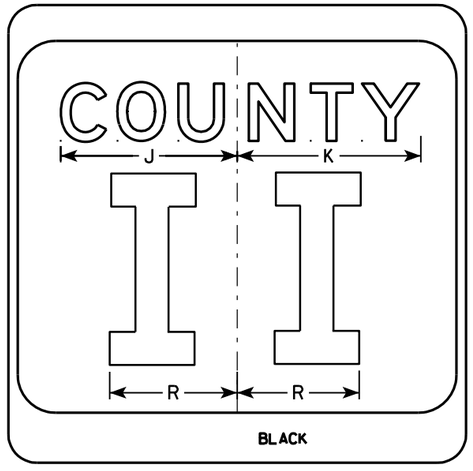
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

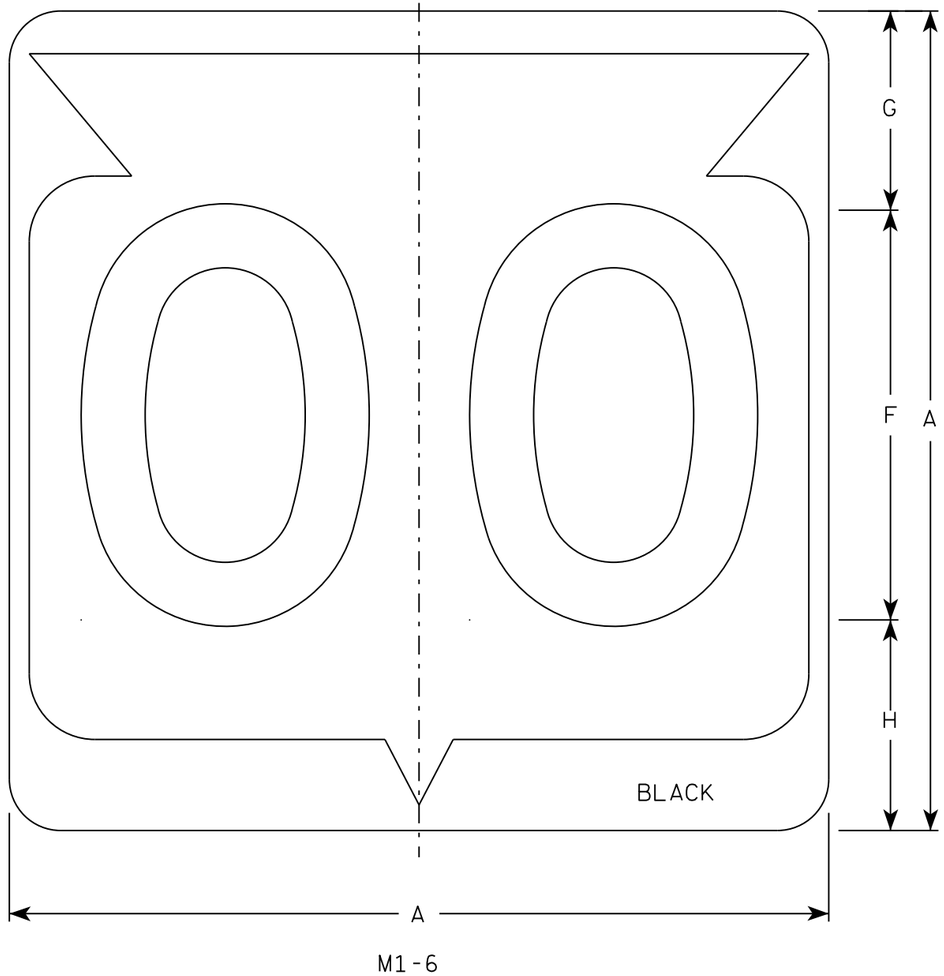
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

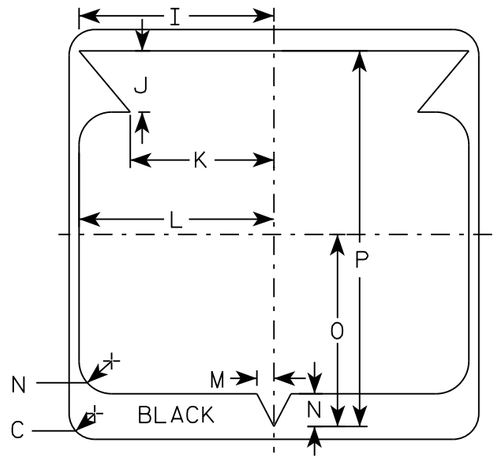
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 214	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
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
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
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
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

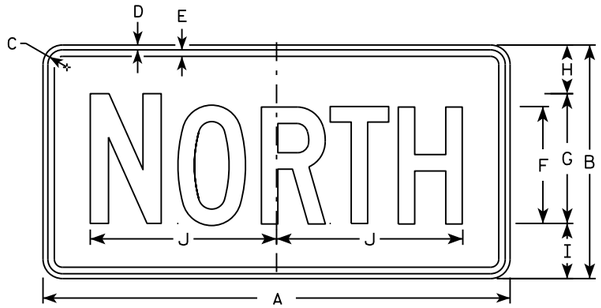
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

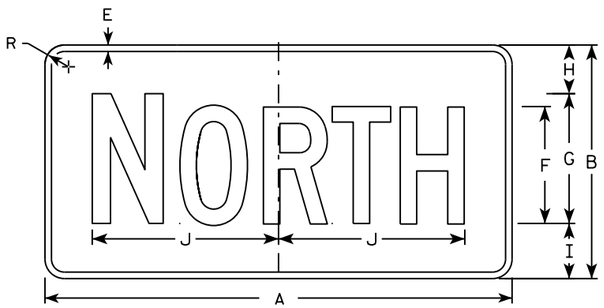
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 215 | E



M3-1
MM3-1
MP3-1



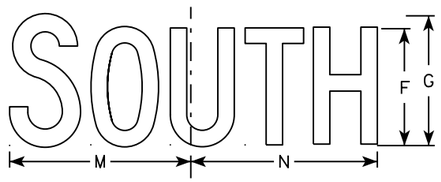
MB3-1
MK3-1
MN3-1



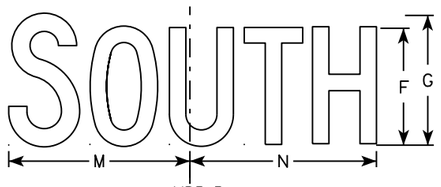
M3-2
MM3-2
MP3-2



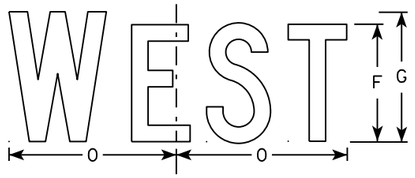
MB3-2
MK3-2
MN3-2



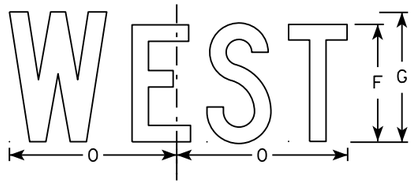
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

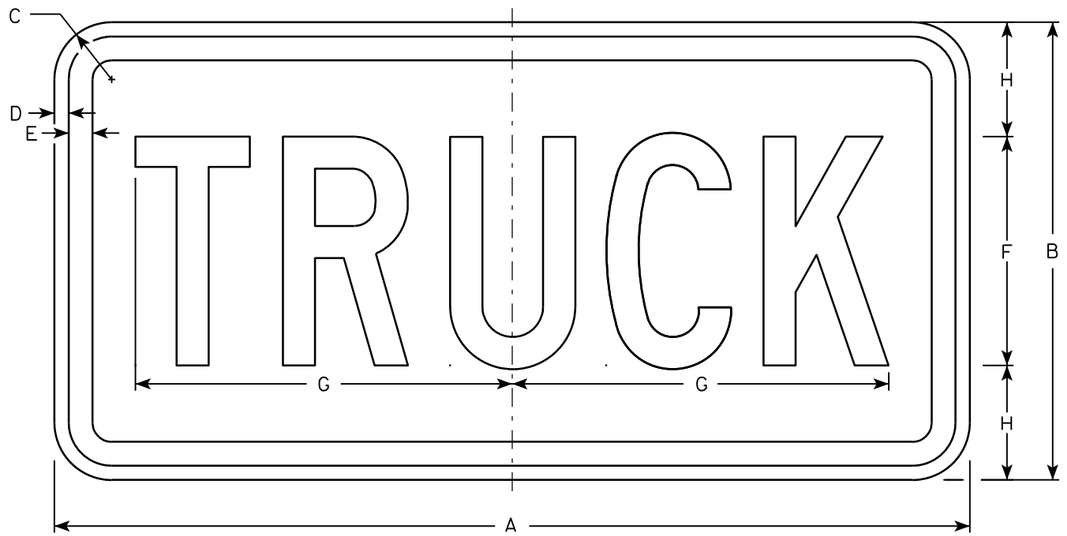
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

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

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



M4-4

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   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. Permanent Signs
   Background - Type H Reflective
   Temporary or other 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	12	1 1/2	3/8	3/8	6	9 7/8	3																			2.0
3	36	18	1 1/2	3/8	1/2	9	15 5/8	4 1/2																			4.5
4																											
5																											

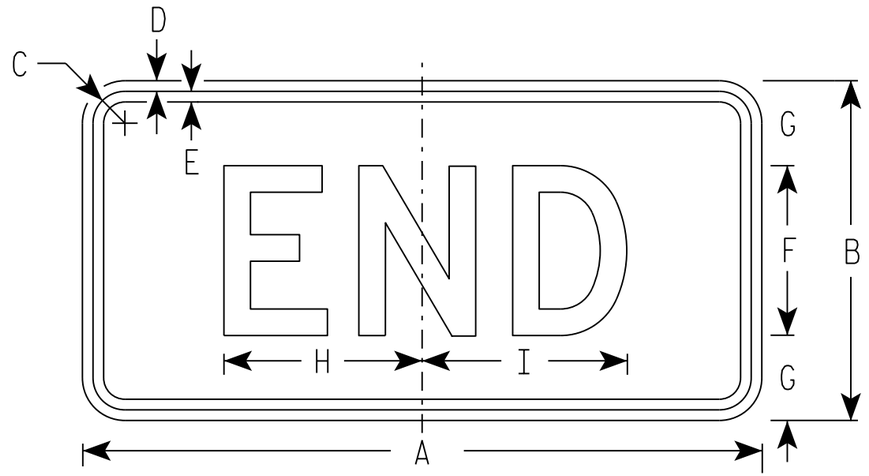
STANDARD SIGN
M4-4

WISCONSIN DEPT OF TRANSPORTATION

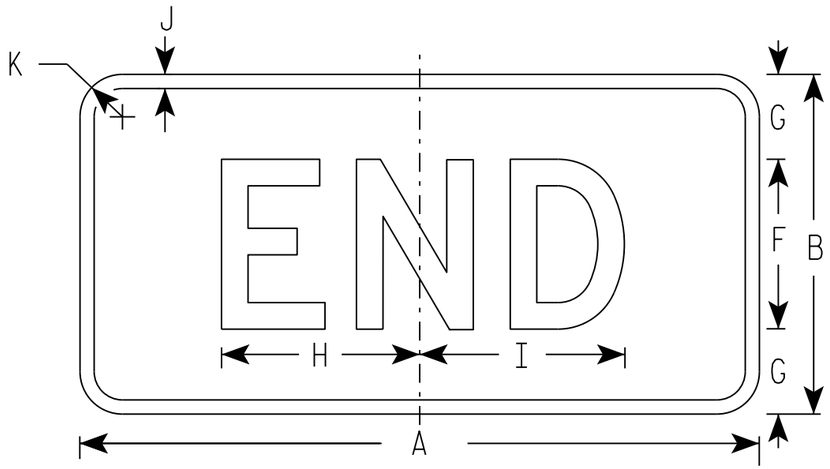
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 217 | E



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-6 Background - White
   Message - Black

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-6

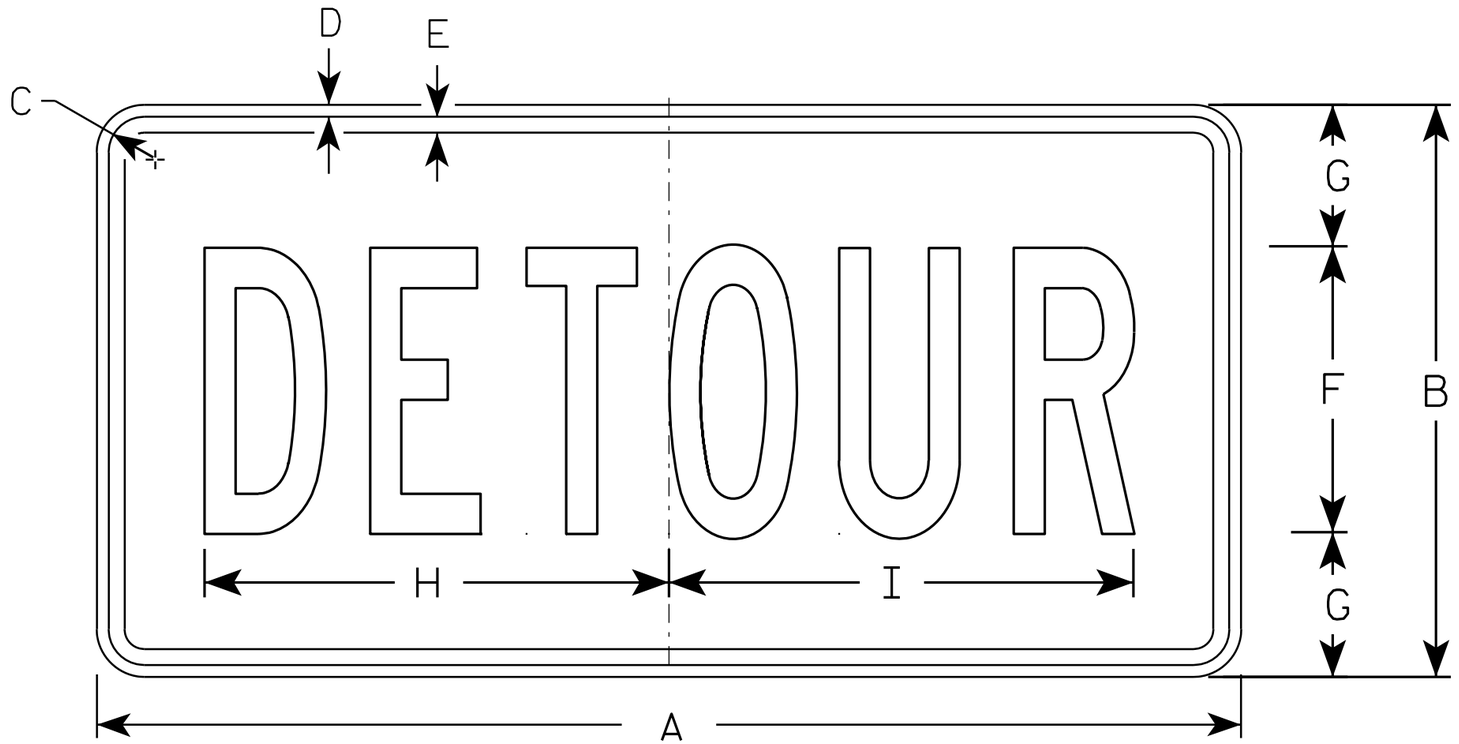
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 218 '14-7.9

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M46.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

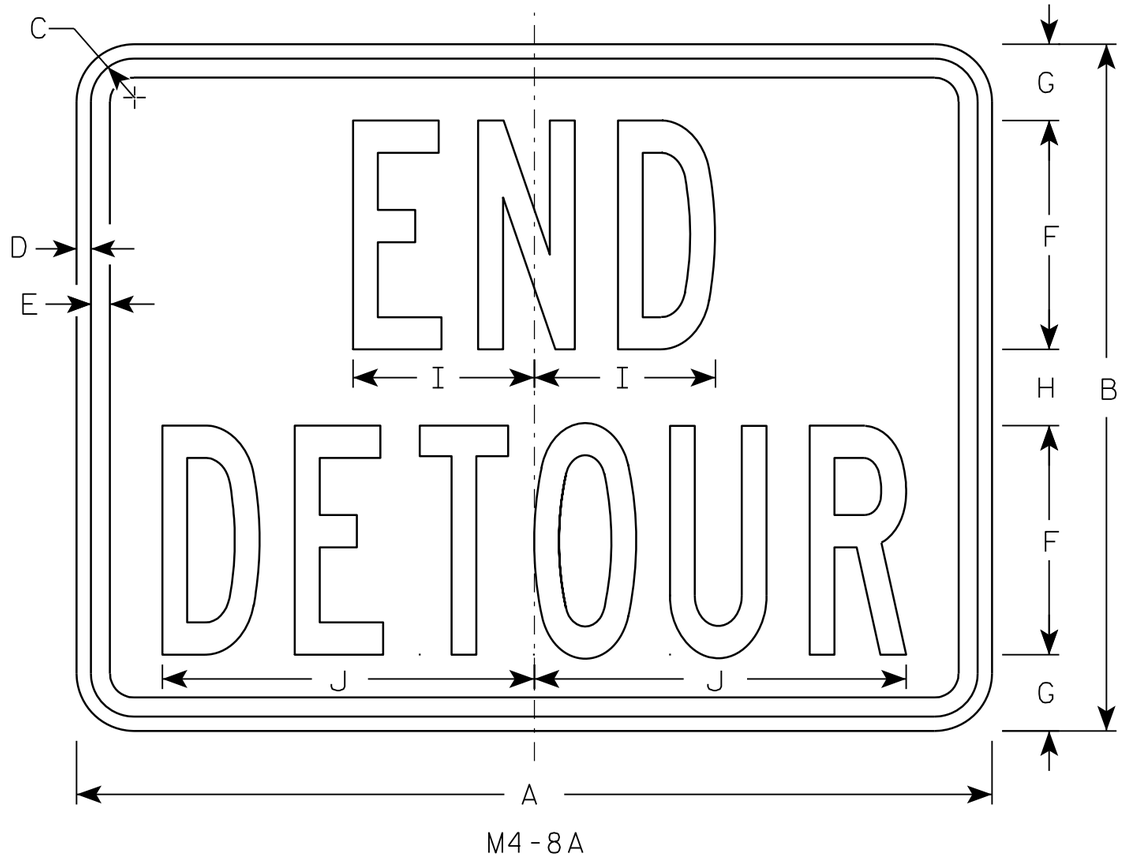
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 219	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

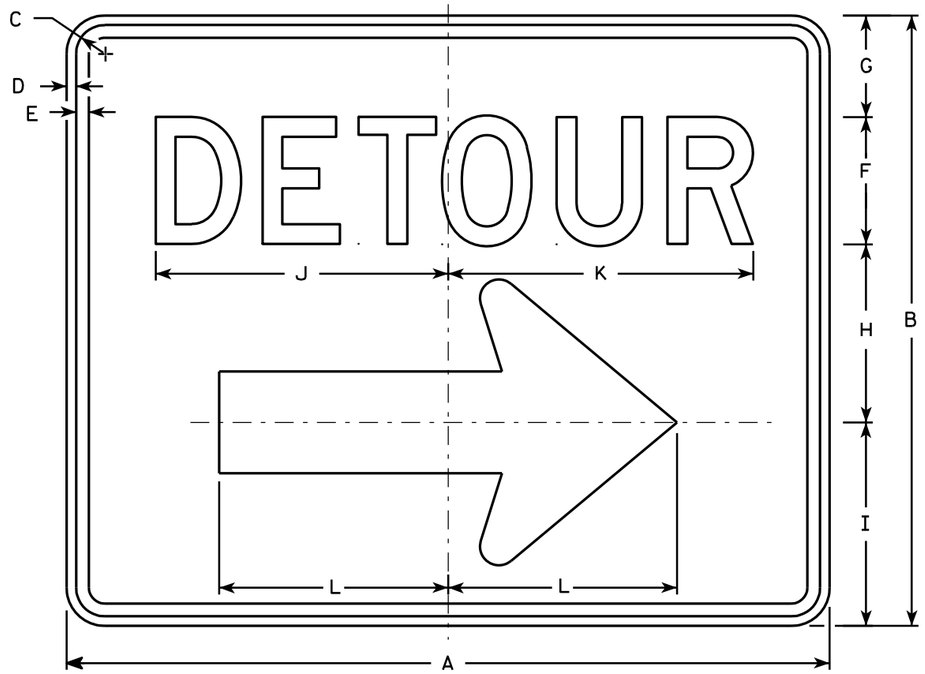
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

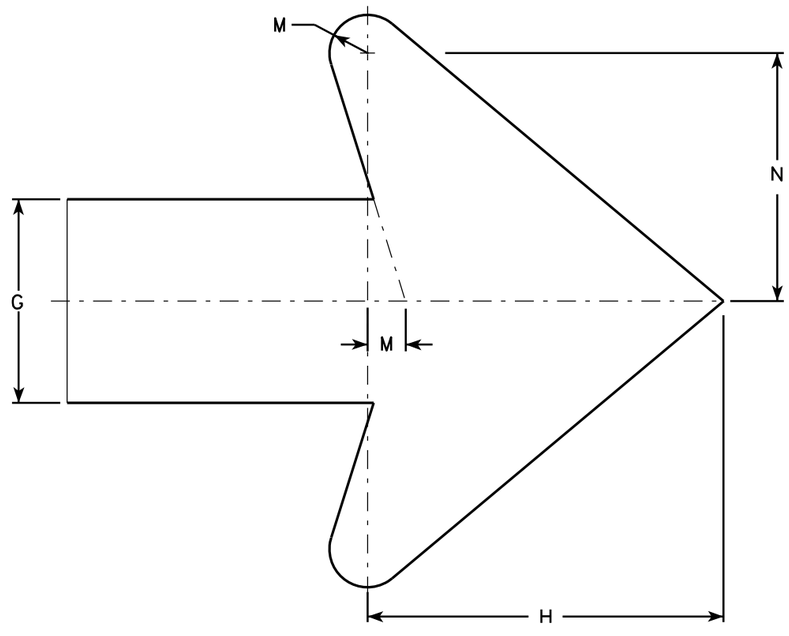
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 220	E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9L is the same as M4-9R 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	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

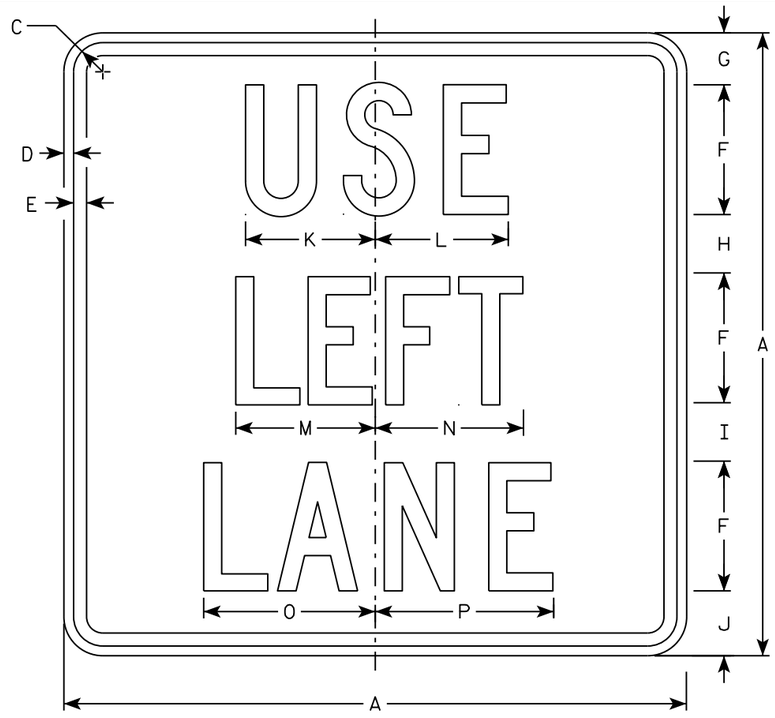
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

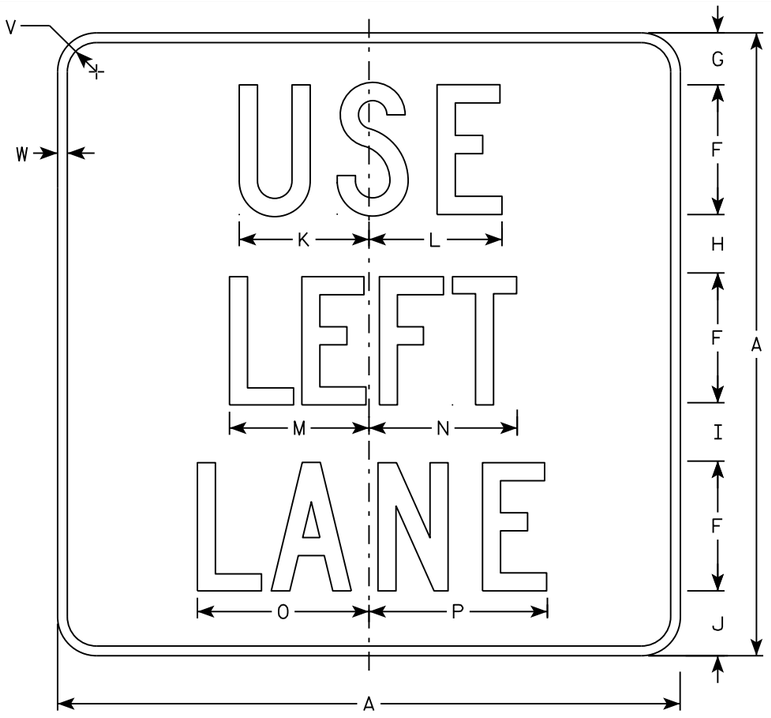
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 221	E



M4-20L

A

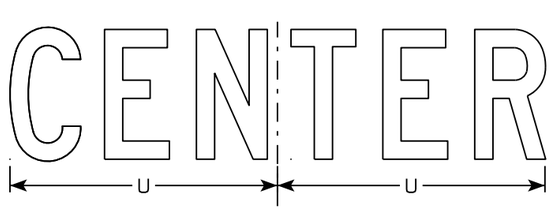
M4-20L
MM4-20L
M04-20L
MP4-20L



MB4-20L

A

MB4-20L
MK4-20L
MN4-20L
MR4-20L



M4-20C
MB4-20C
MK4-20C
MM4-20C
MN4-20C
M04-20C
MP4-20C
MR4-20C



M4-20R
MB4-20R
MK4-20R
MM4-20R
MN4-20R
M04-20R
MP4-20R
MR4-20R

NOTES

1. Sign is Type II - Type H except as Shown
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. M4-20 Background - White
   Message - Black
   MB4-20 Background - Blue
   Message - White
   MK4-20 Background - Green
   Message - White
   MM4-20 Background - White
   Message - Green
   MN4-20 Background - Brown
   Message - White
   M04-20 Background - Orange - Type F Reflective
   Message - Black
   MP4-20 Background - White
   Message - Blue
   MR4-20 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
3	36		1 5/8	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
4																											
5																											

STANDARD SIGN
M4-20

WISCONSIN DEPT OF TRANSPORTATION

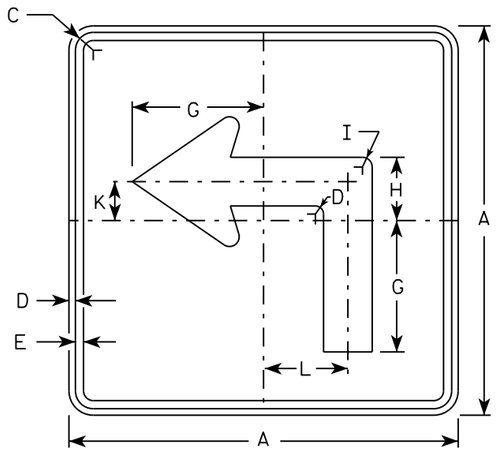
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 10/15/15 PLATE NO M4-20.5

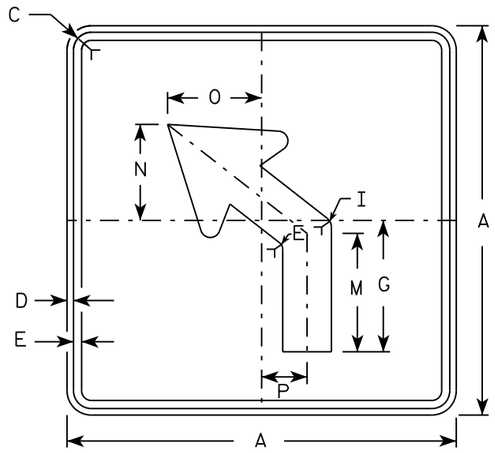
222

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

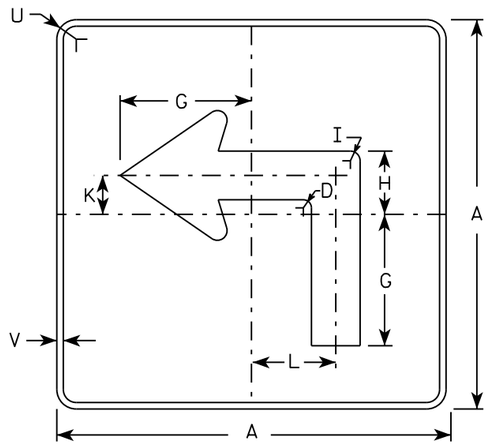
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M420.DGN PLOT DATE : 01-DEC-2015 18:03 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



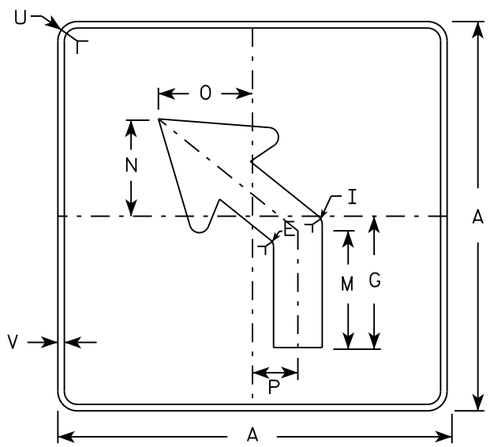
M5-1L
MM5-1L
MO5-1L
MP5-1L



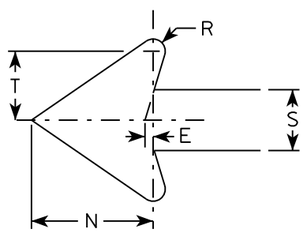
M5-2L
MM5-2L
MO5-2L
MP5-2L



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



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



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

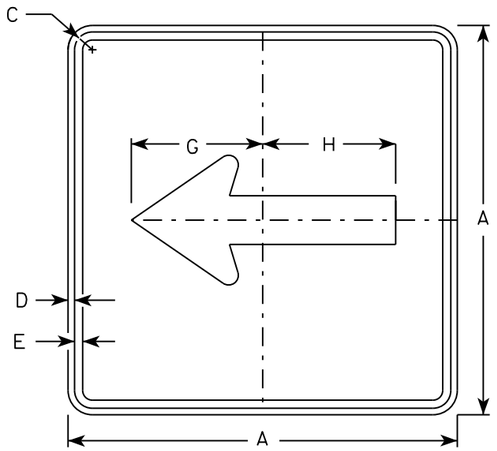
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

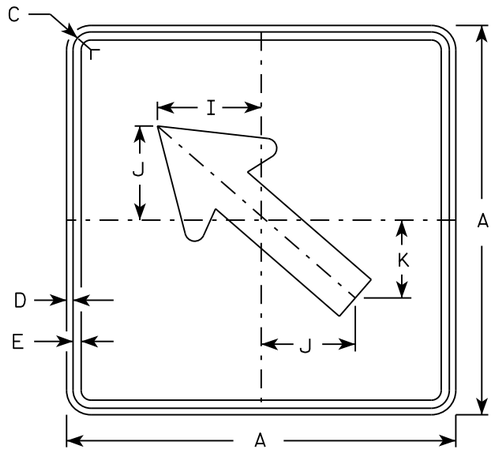
DATE 10/15/15 PLATE NO. M5-1.13

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

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



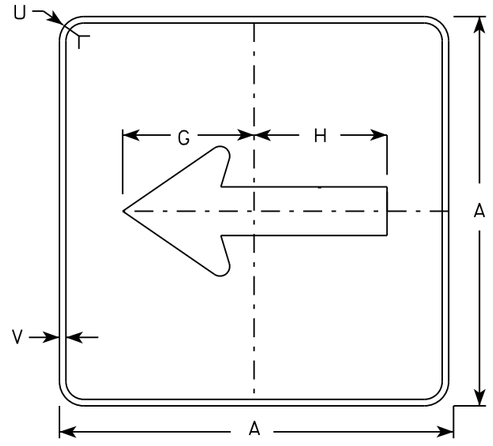
M6-1
MM6-1
MO6-1
MP6-1



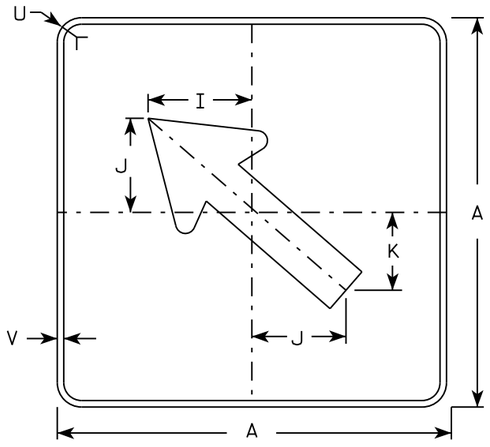
M6-2
MM6-2
MO6-2
MP6-2

NOTES

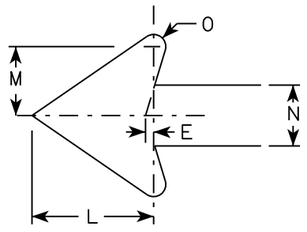
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

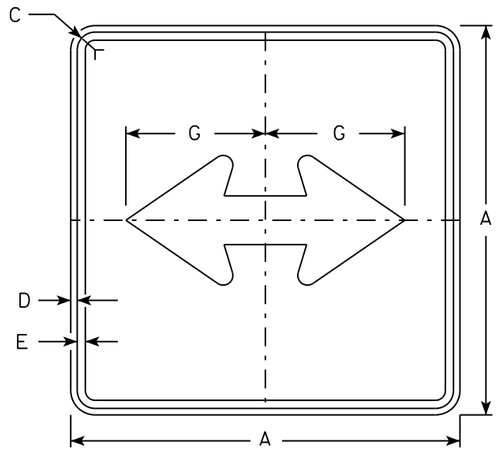
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

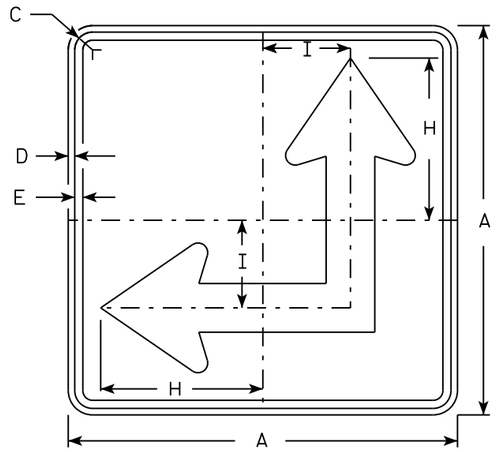
DATE 10/15/15 PLATI 224 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



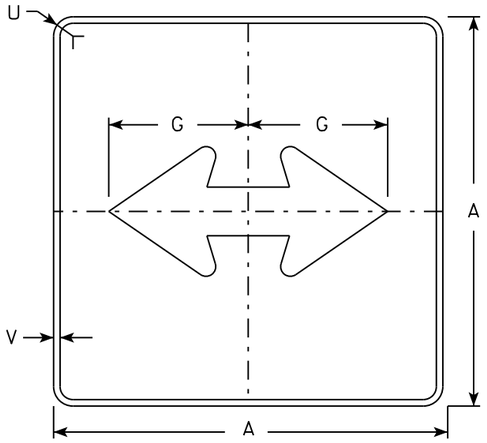
M6-4
MM6-4
MO6-4
MP6-4



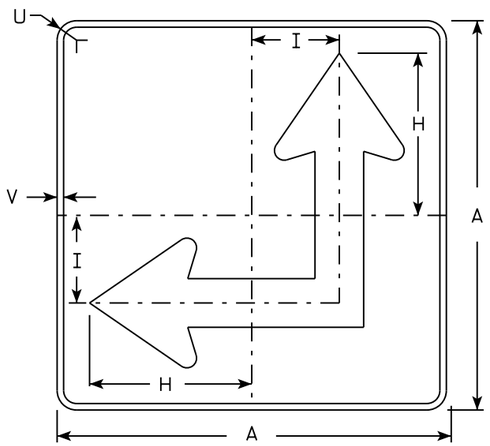
M6-6
MM6-6
MO6-6
MP6-6

NOTES

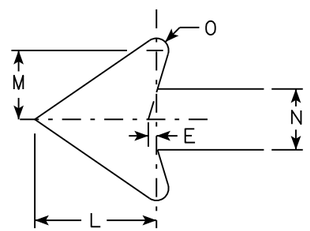
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

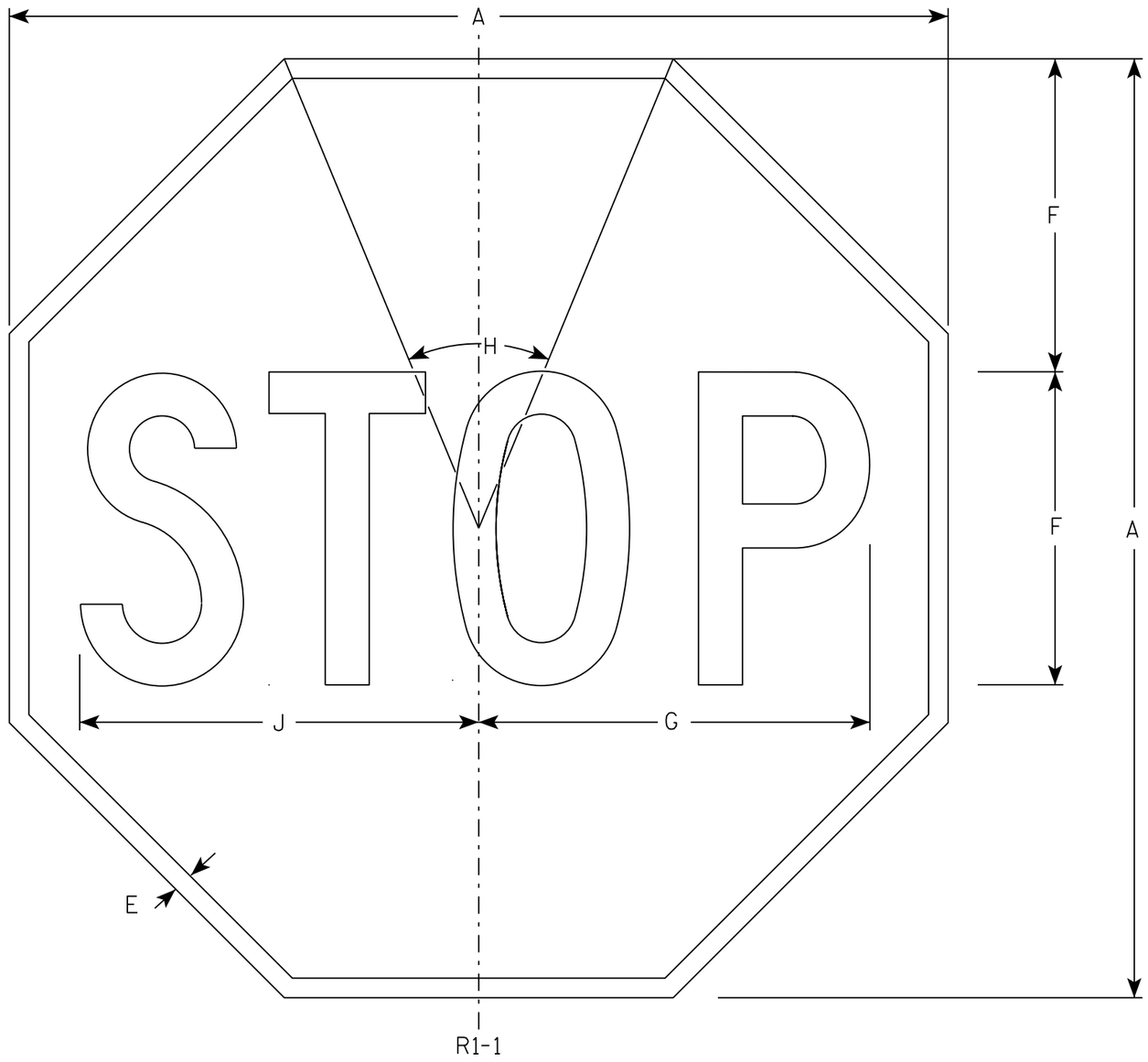
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE 225 M6-4.10

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

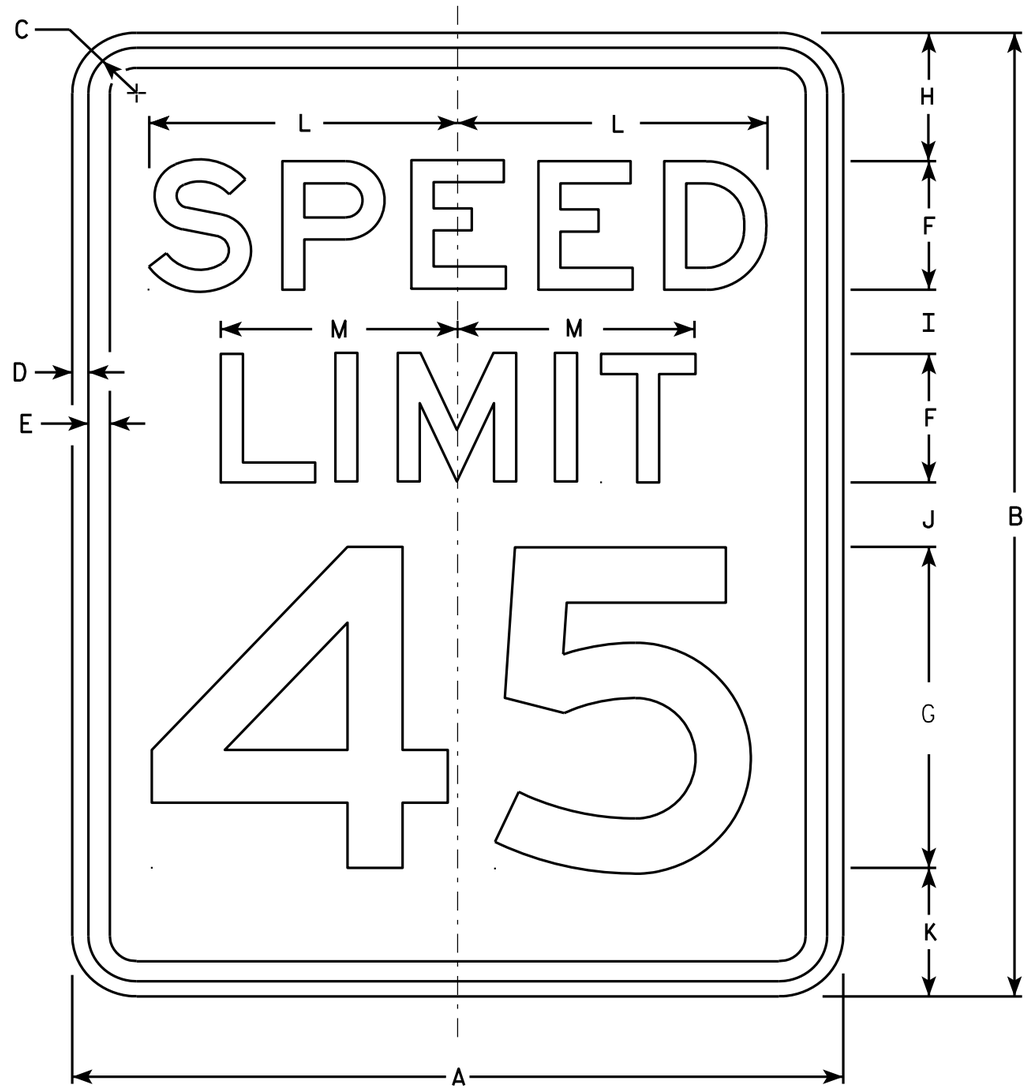
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 226	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

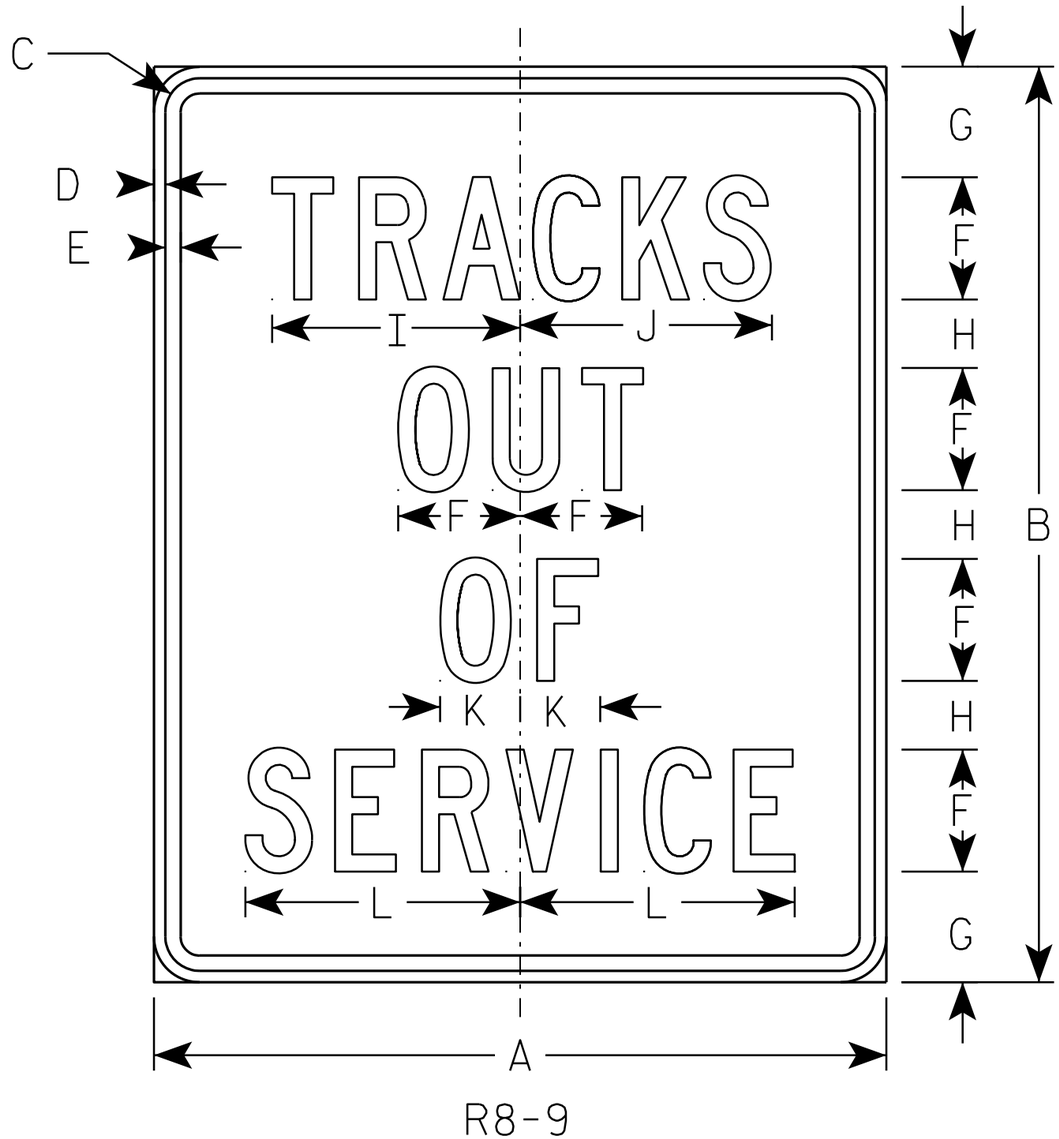
STANDARD SIGN
R2-1

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: 227	E



R8-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	8 1/8	8 1/4	2 5/8	9															5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	8 1/8	8 1/4	2 5/8	9															5.0
3																											
4																											
5																											

STANDARD SIGN
R8-9

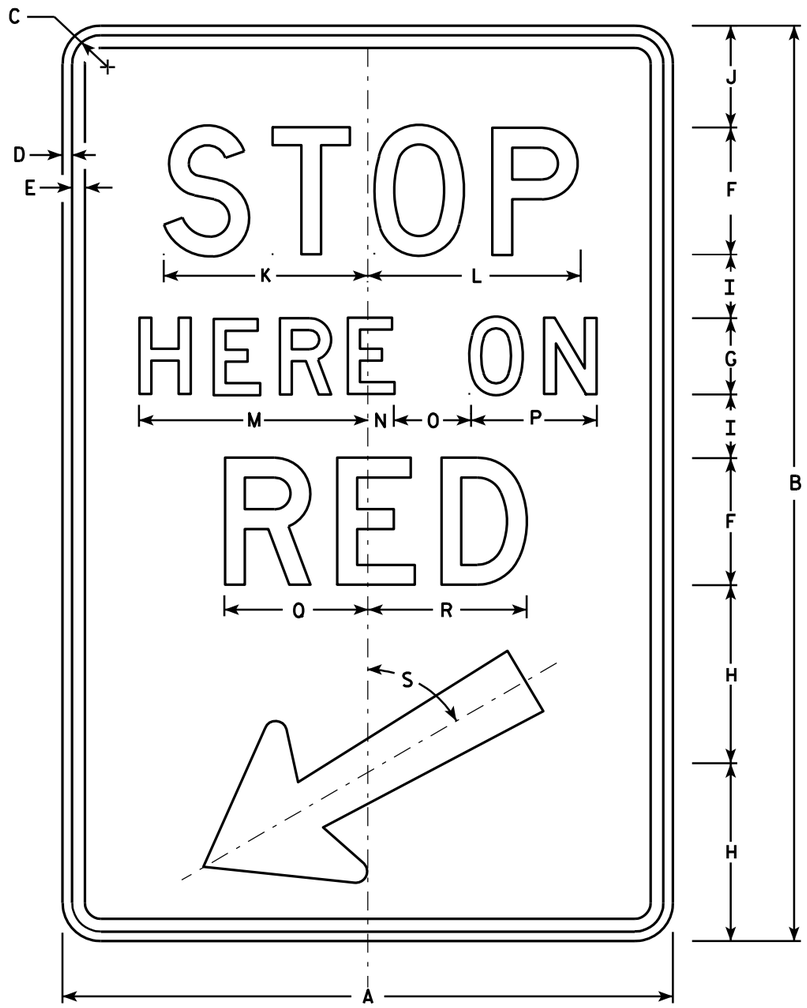
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R8-9.2

PROJECT NO:

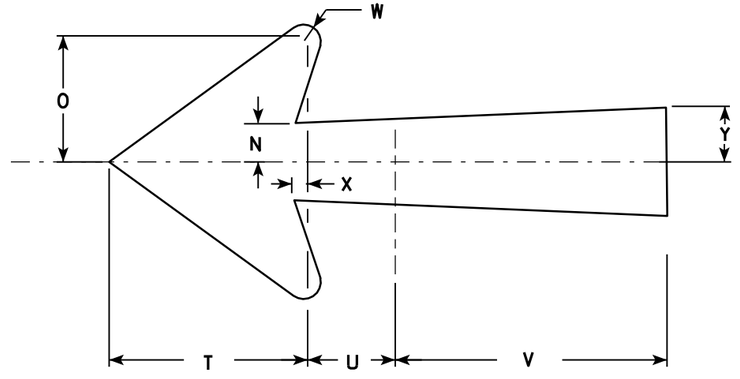
SHEET NO: 228 E



R10-6

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.



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																											
2S	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

STANDARD SIGN
R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-6.6

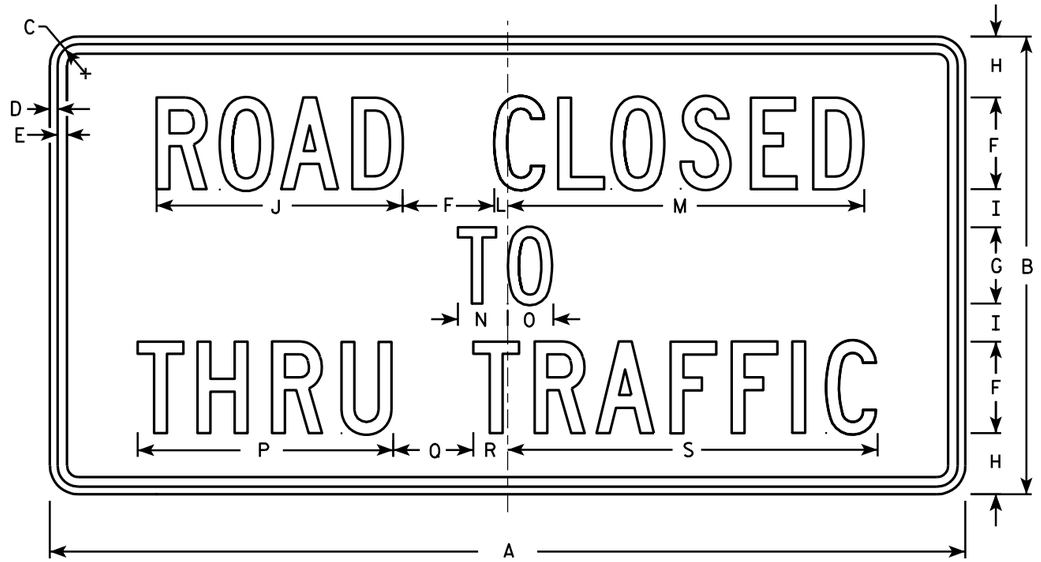
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 229	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R106.DGN PLOT DATE : 05-APR-2011 09:50 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

7

7



R11-4

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 - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

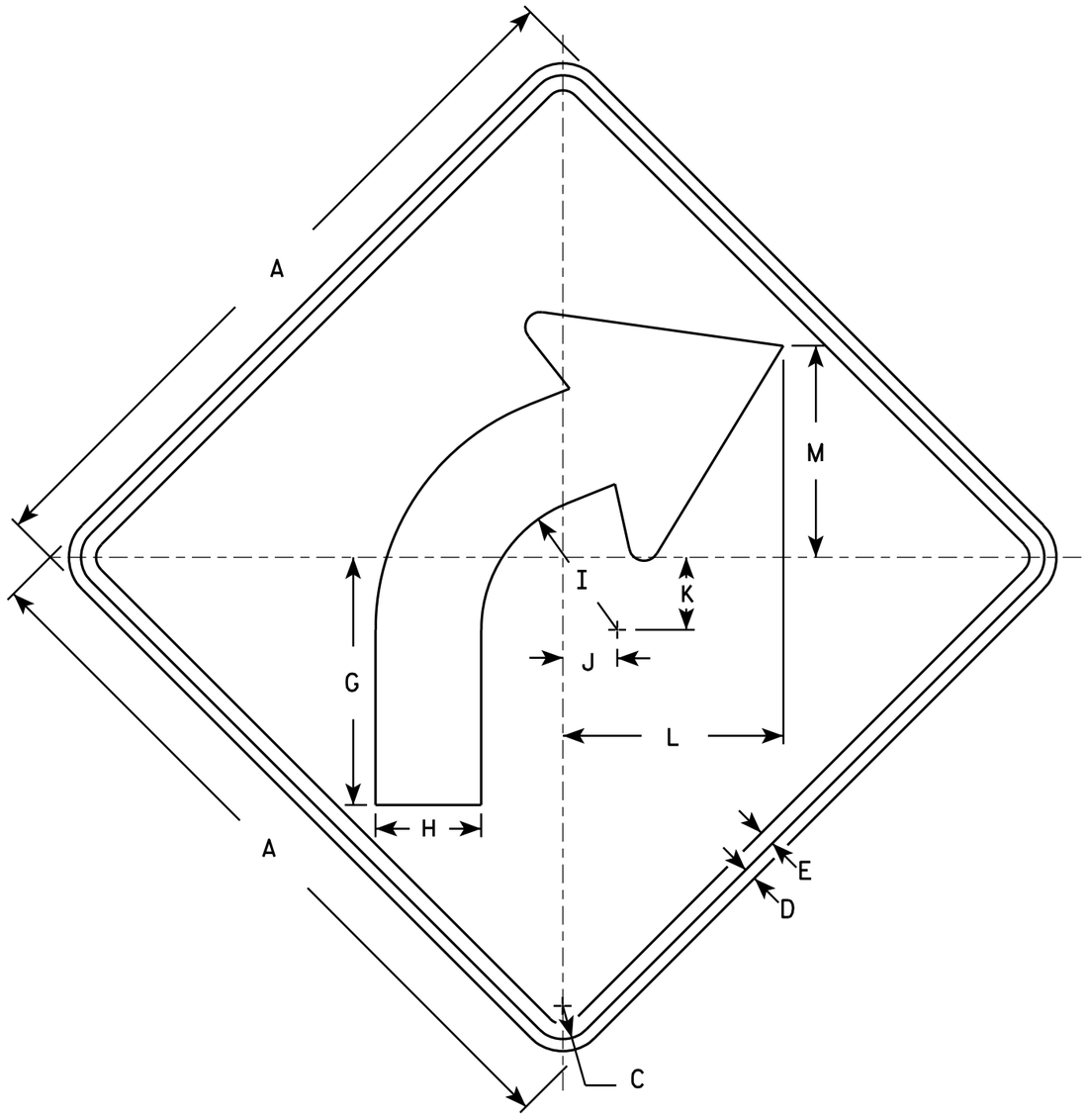
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

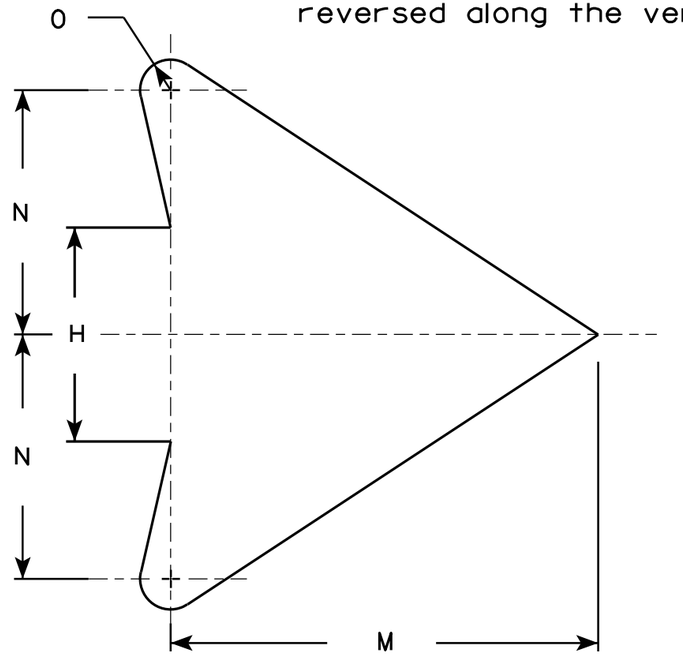
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 230 | E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

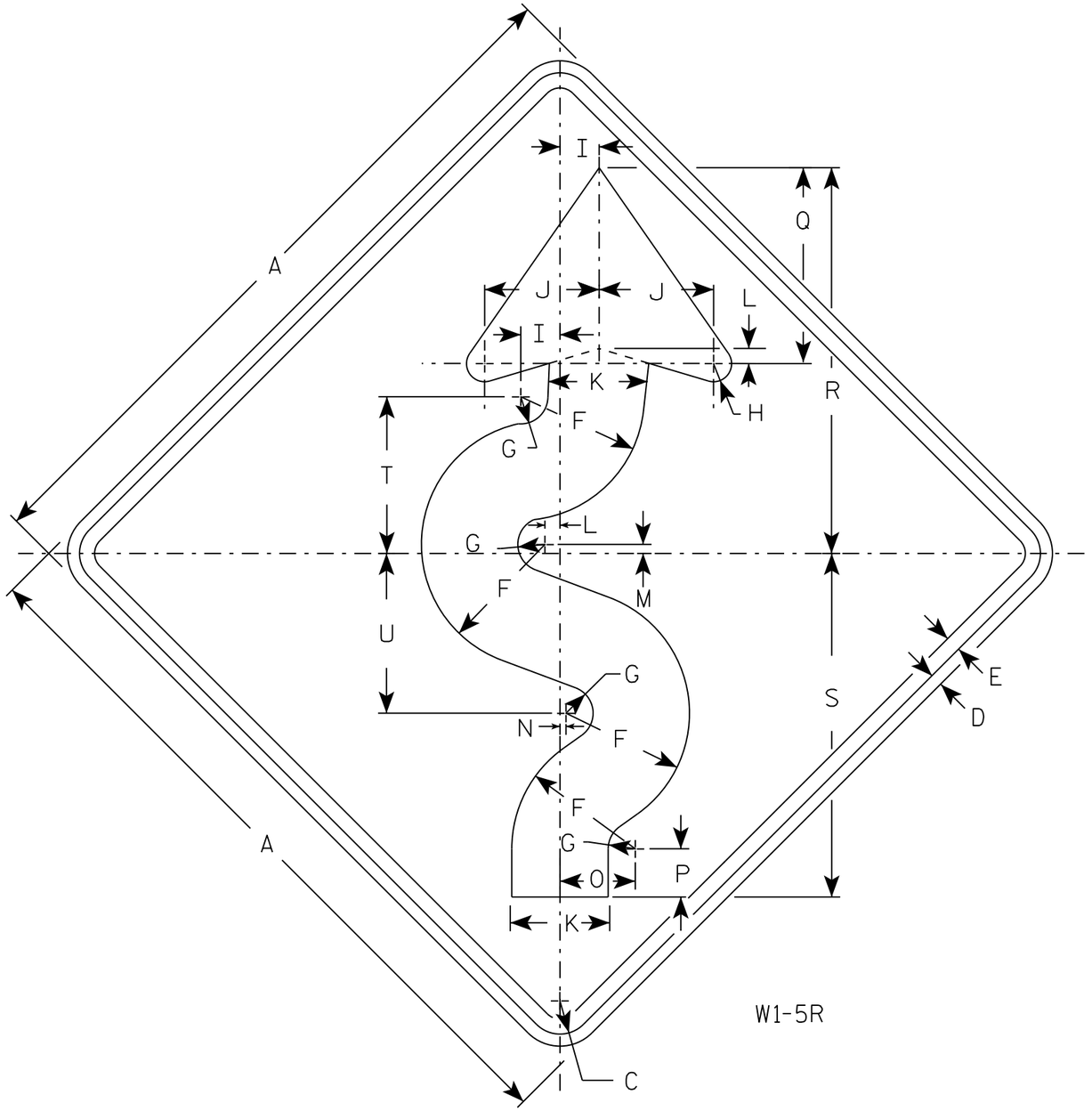
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 231	E



W1-5R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W1-5L is the same as W1-5R except the arrow is reversed along the vertical centerline.
4. If used with W13-1 of 30 MPH or less, use 36" sign for Size 2S.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4 1/8	7/8	5/8	1 1/4	3 3/4	3 1/4	1/2	1/4	1/8	2 1/2	1 5/8	6 1/2	12 3/4	11 3/8	5 1/4	5 1/4						4.0
2S	30		1 3/8	1/2	5/8	5 1/8	1 1/8	3/4	1 5/8	4 3/4	4 1/8	5/8	3/8	1/4	3 1/8	2	8 1/8	16	14 1/4	6 1/2	6 5/8						6.25
2M	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
3	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
4	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
5	48		2 1/4	3/4	1	8 1/4	1 3/4	1 1/4	2 1/2	7 1/2	6 1/2	1	1/2	3/8	5	3 1/4	13	25 1/2	22 3/4	10 3/8	10 1/2						16.0

STANDARD SIGN
W1-5

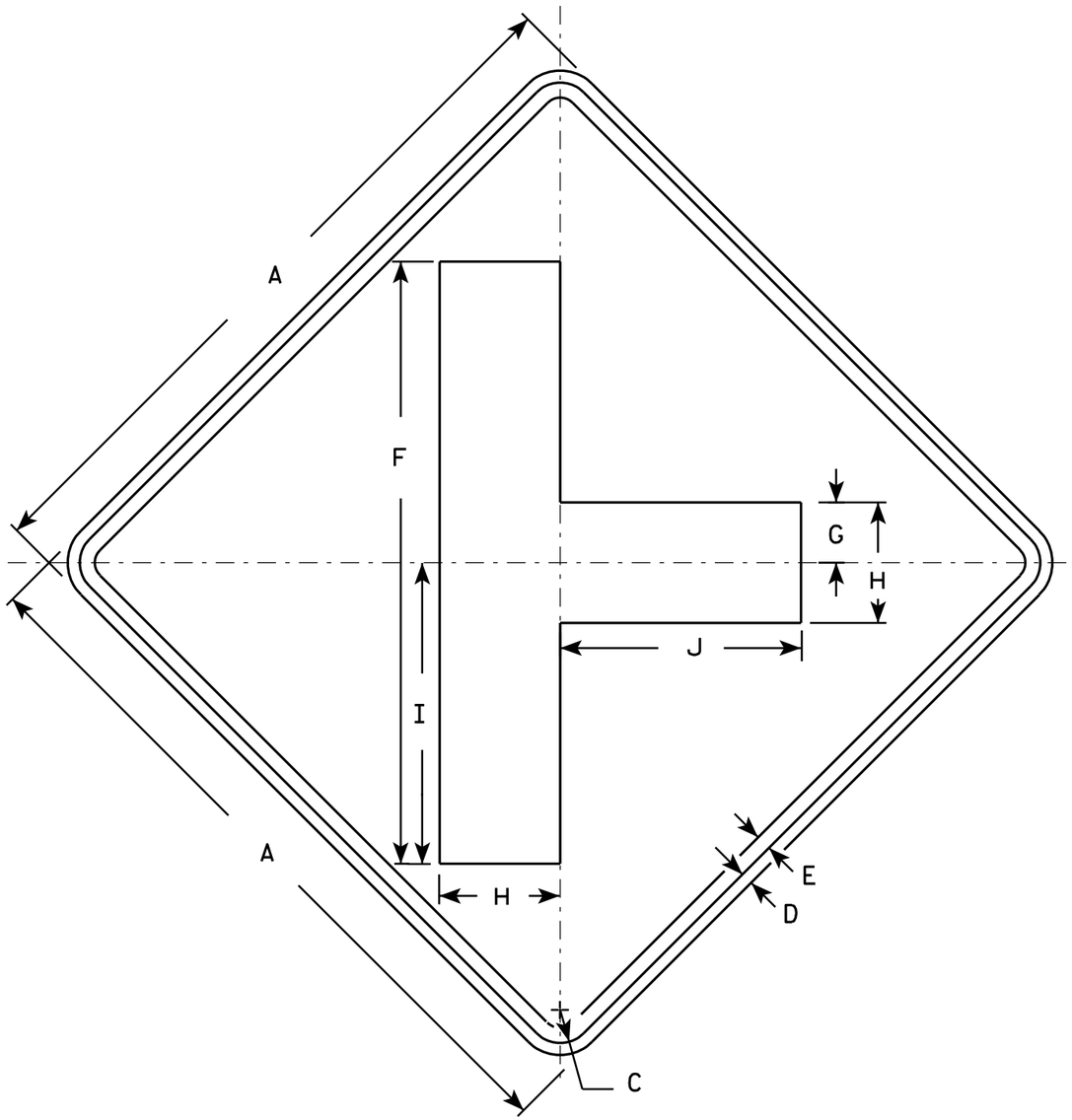
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/1/16 PLATE NO. W1-5.9

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W15.DGN PLOT DATE : 01-AUG-2016 09:34 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.594294:1.000000



W2-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	20	2	4	10	8																	4.0
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

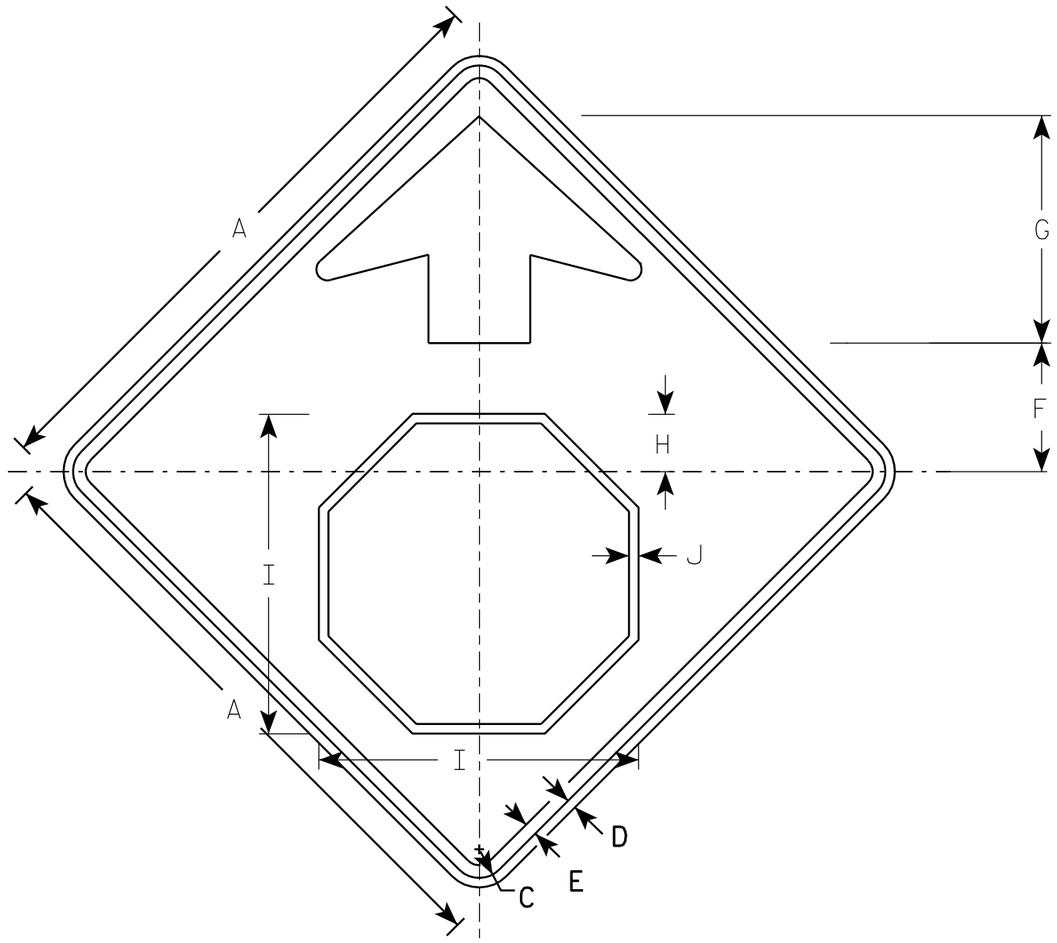
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-2.6

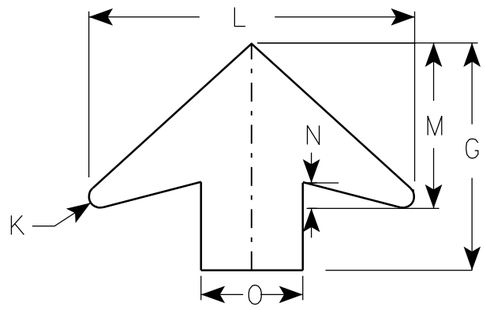
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 233 | E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

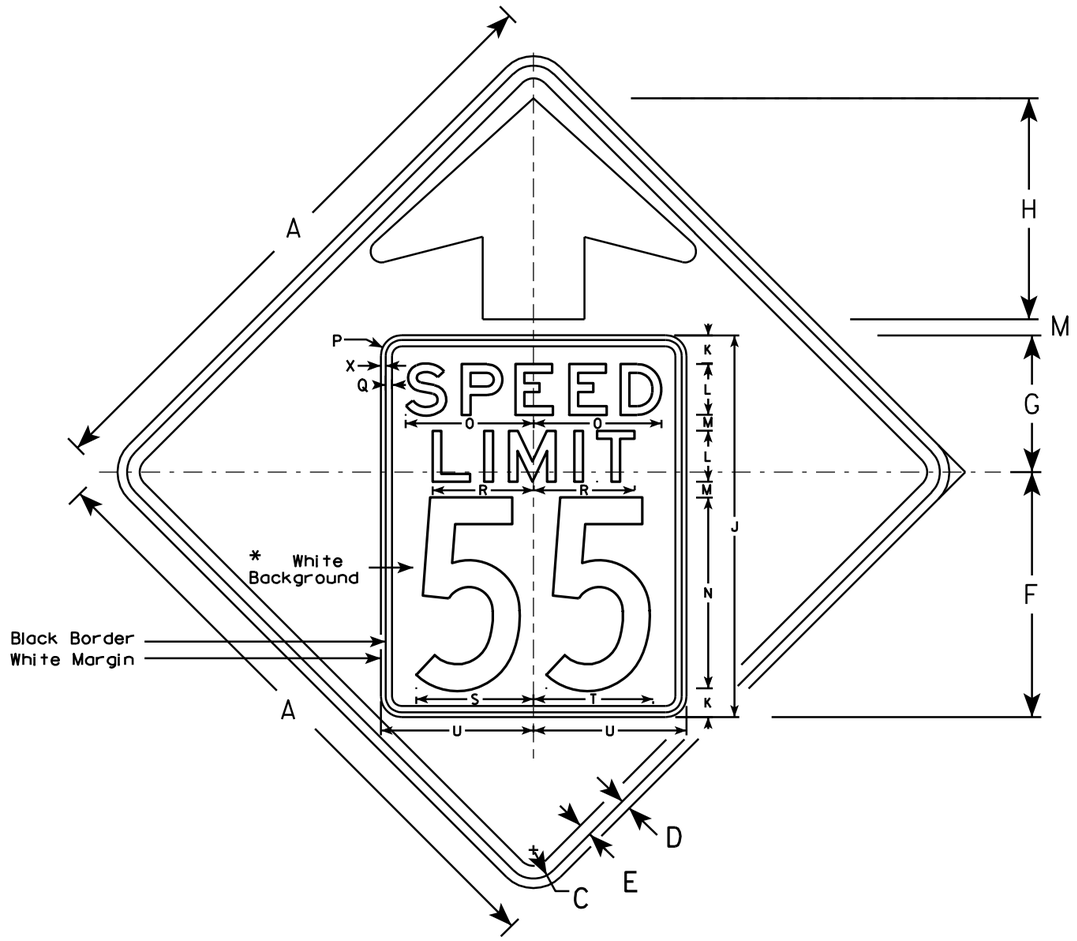
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 234 E

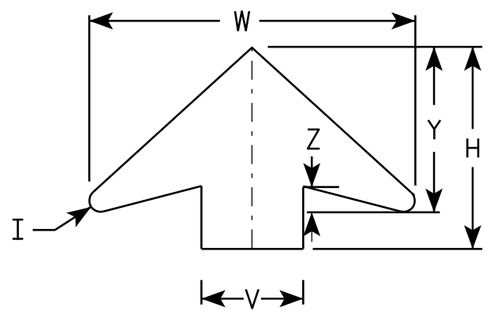


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

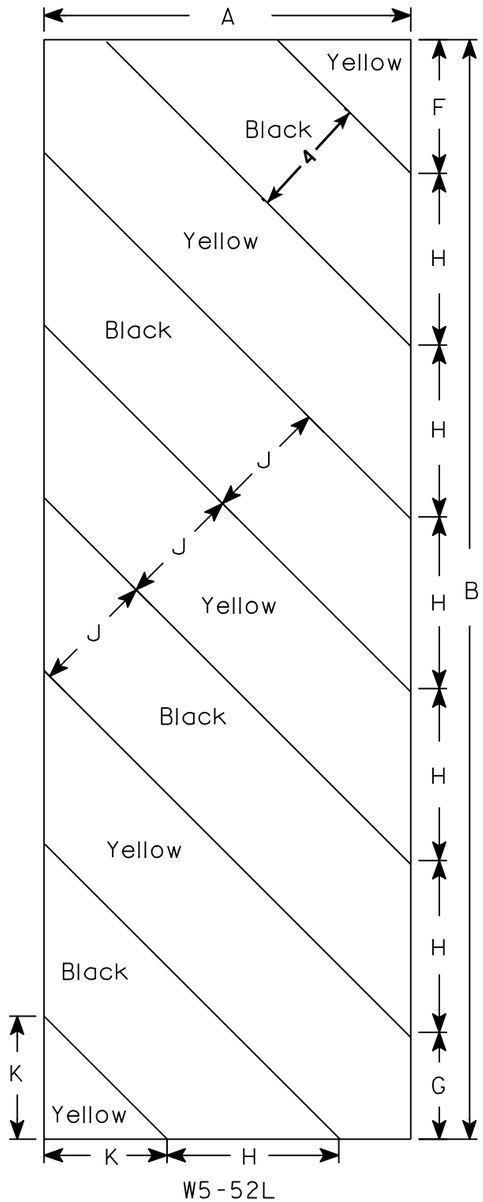
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

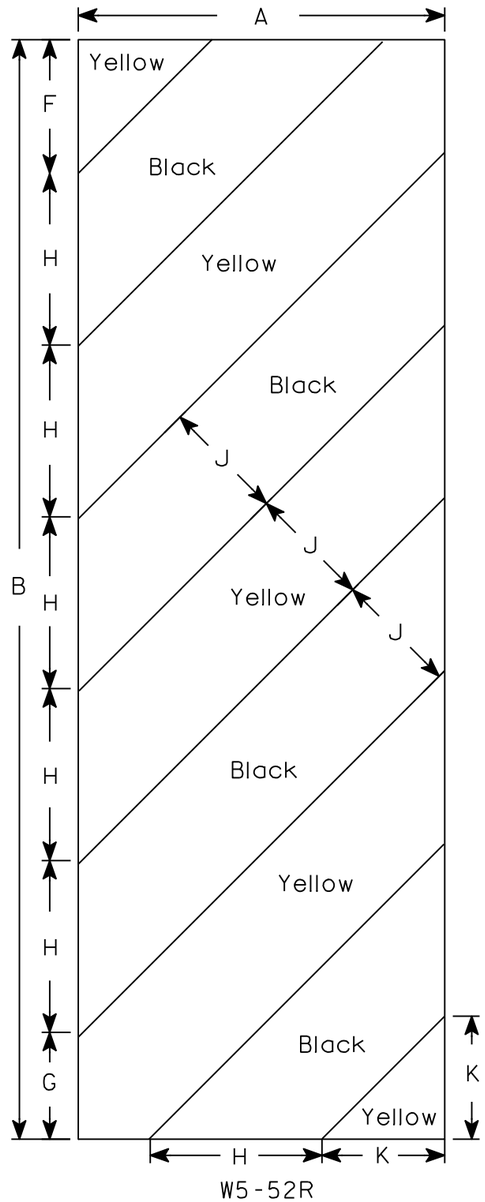
DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 235 E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

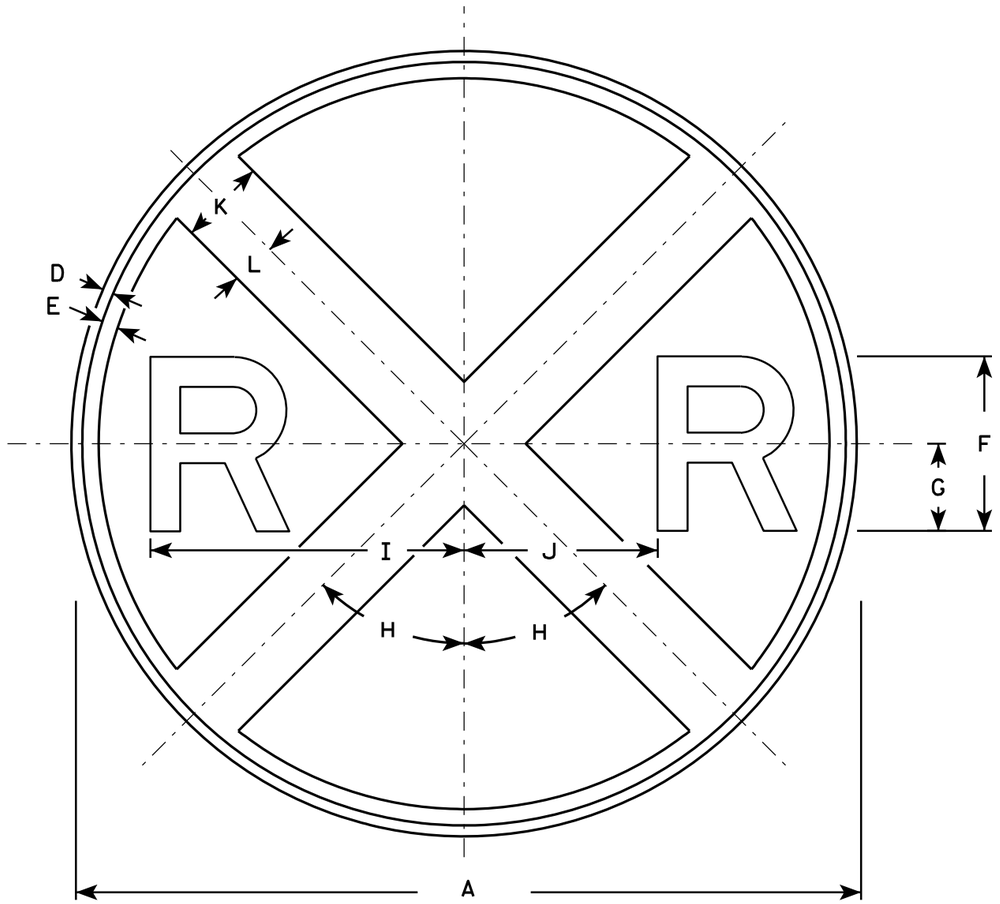
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 236 | E



W10-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message 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	30			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

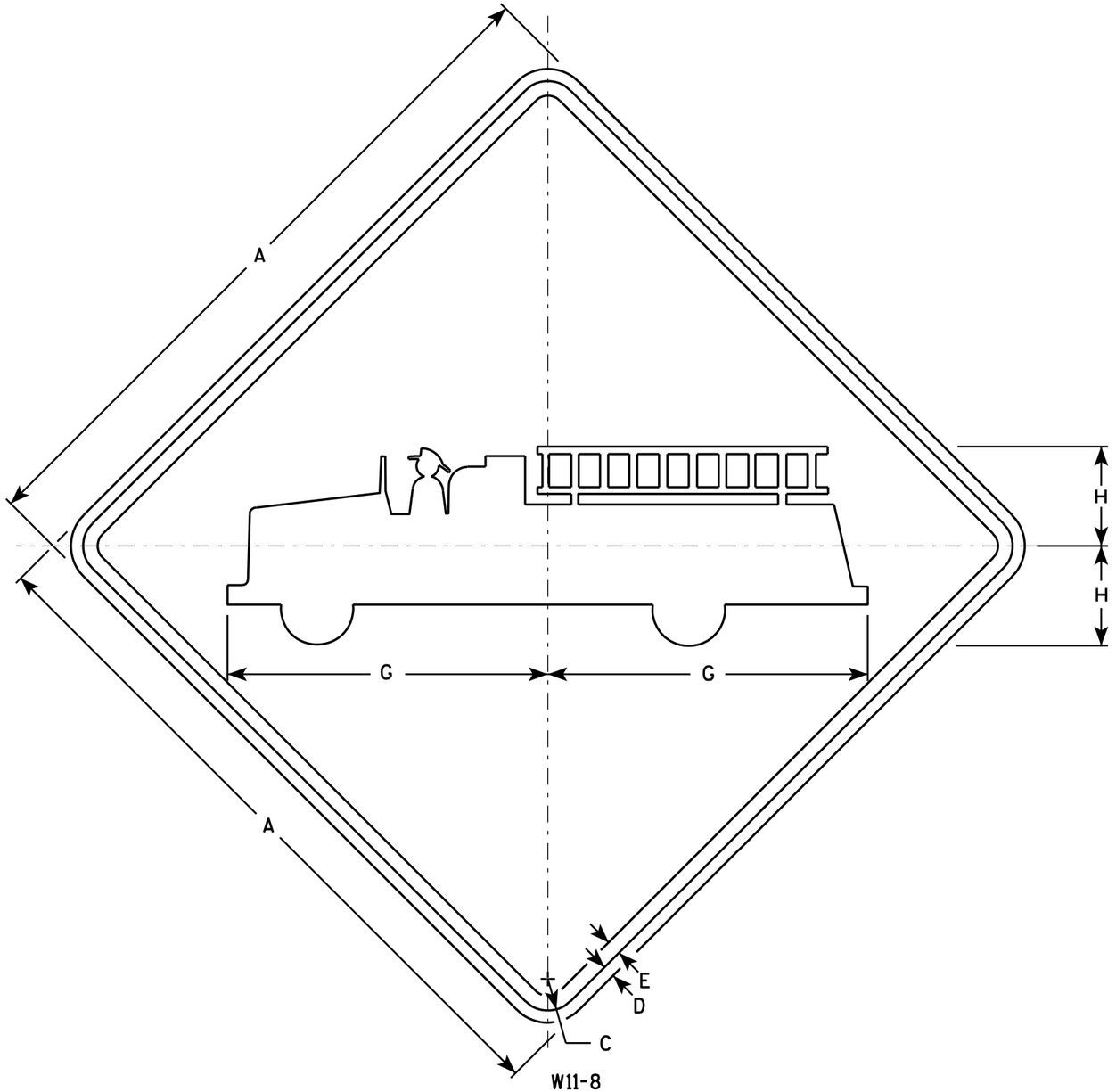
STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 237	E



W11-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		11	3 3/8																			4.0
2S	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
2M	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
3	36		1 5/8	5/8	3/4		16 1/2	5 1/4																			9.0
4	48		2 1/4	3/4	1		22	7																			16.0
5																											

STANDARD SIGN
W11-8

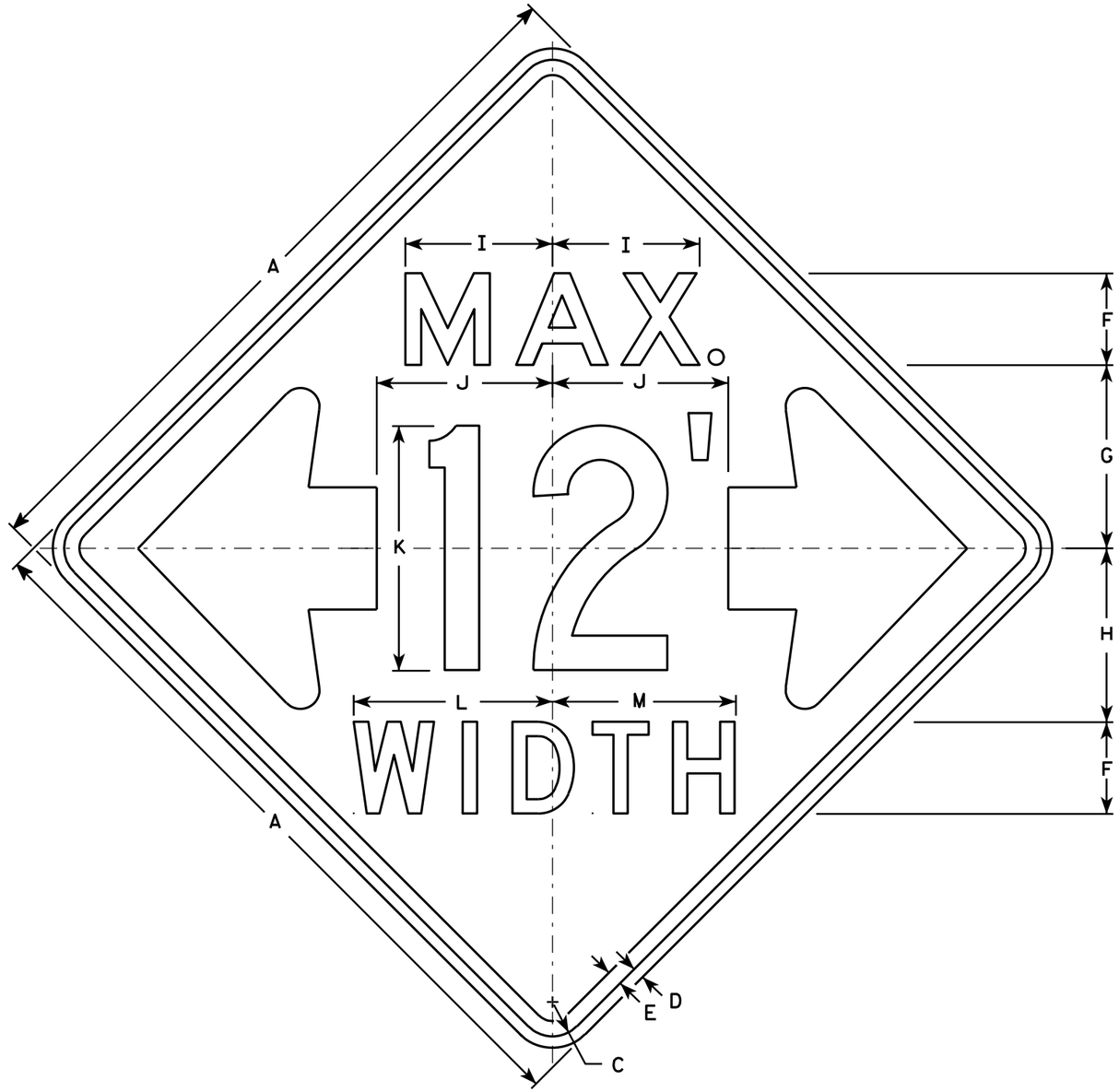
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-8.7

PROJECT NO:

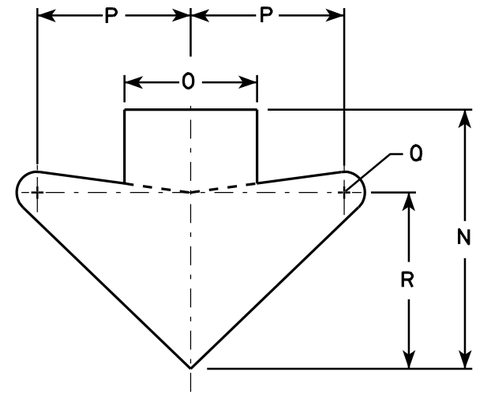
SHEET NO: 238 E



W12-52

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 - 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. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



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	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

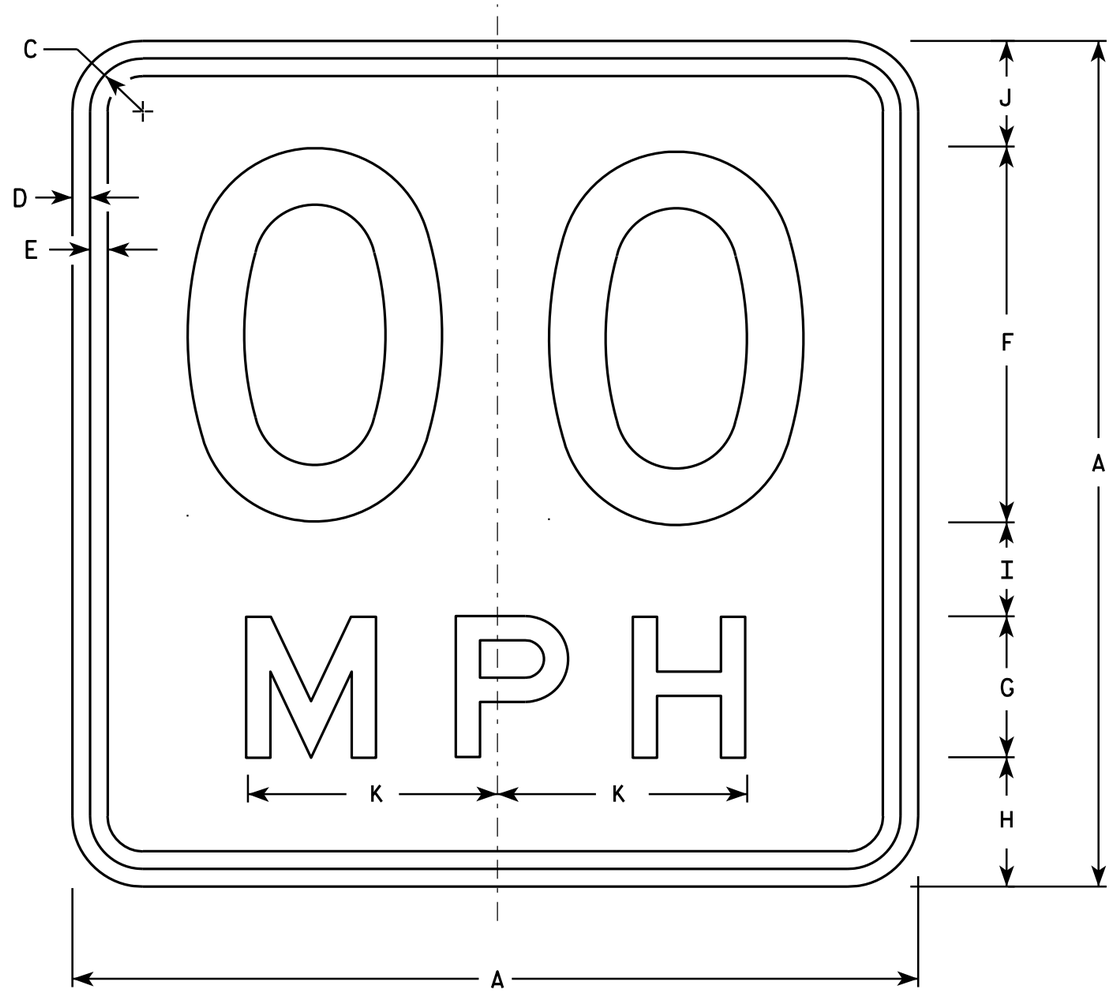
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 239 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



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

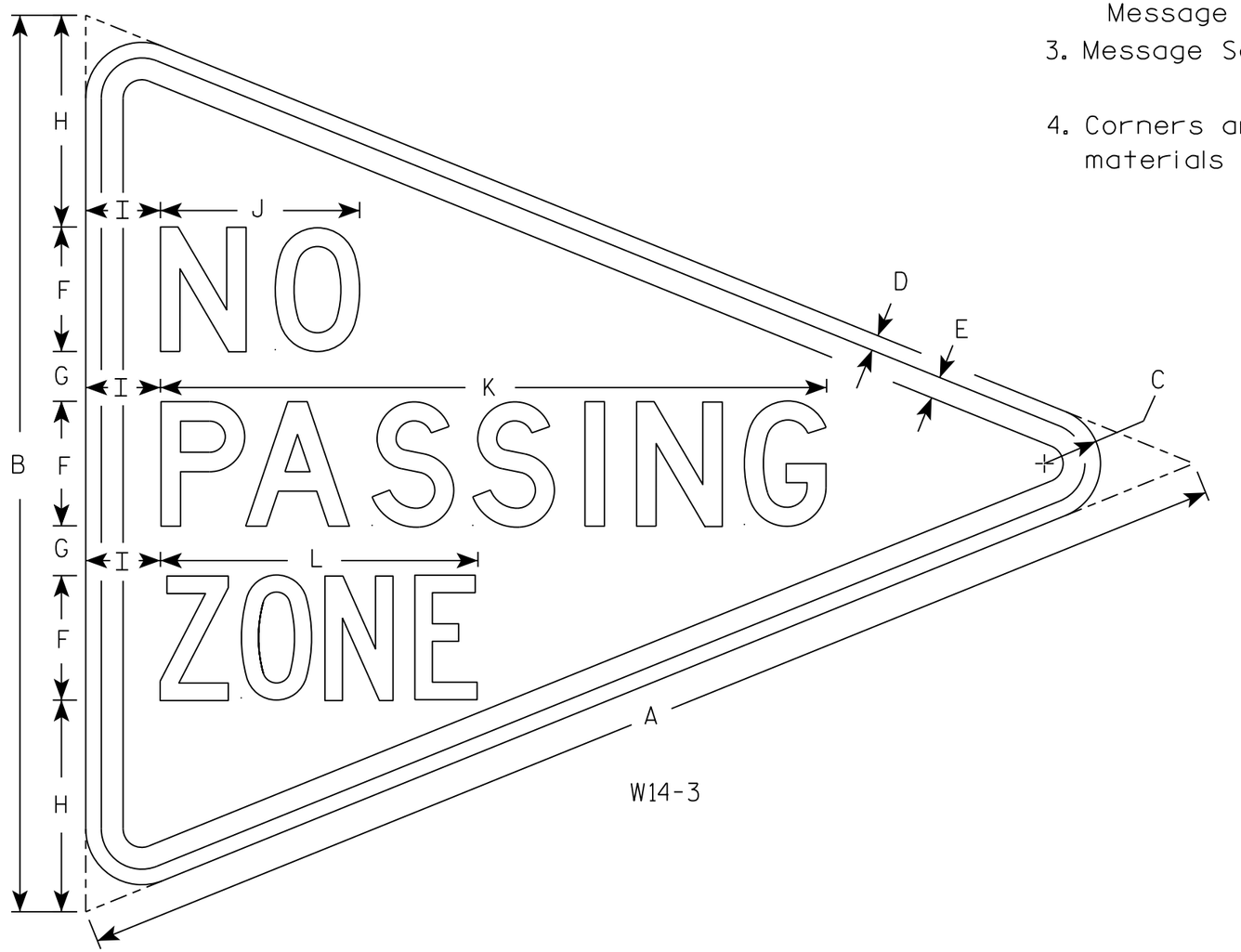
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 240 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

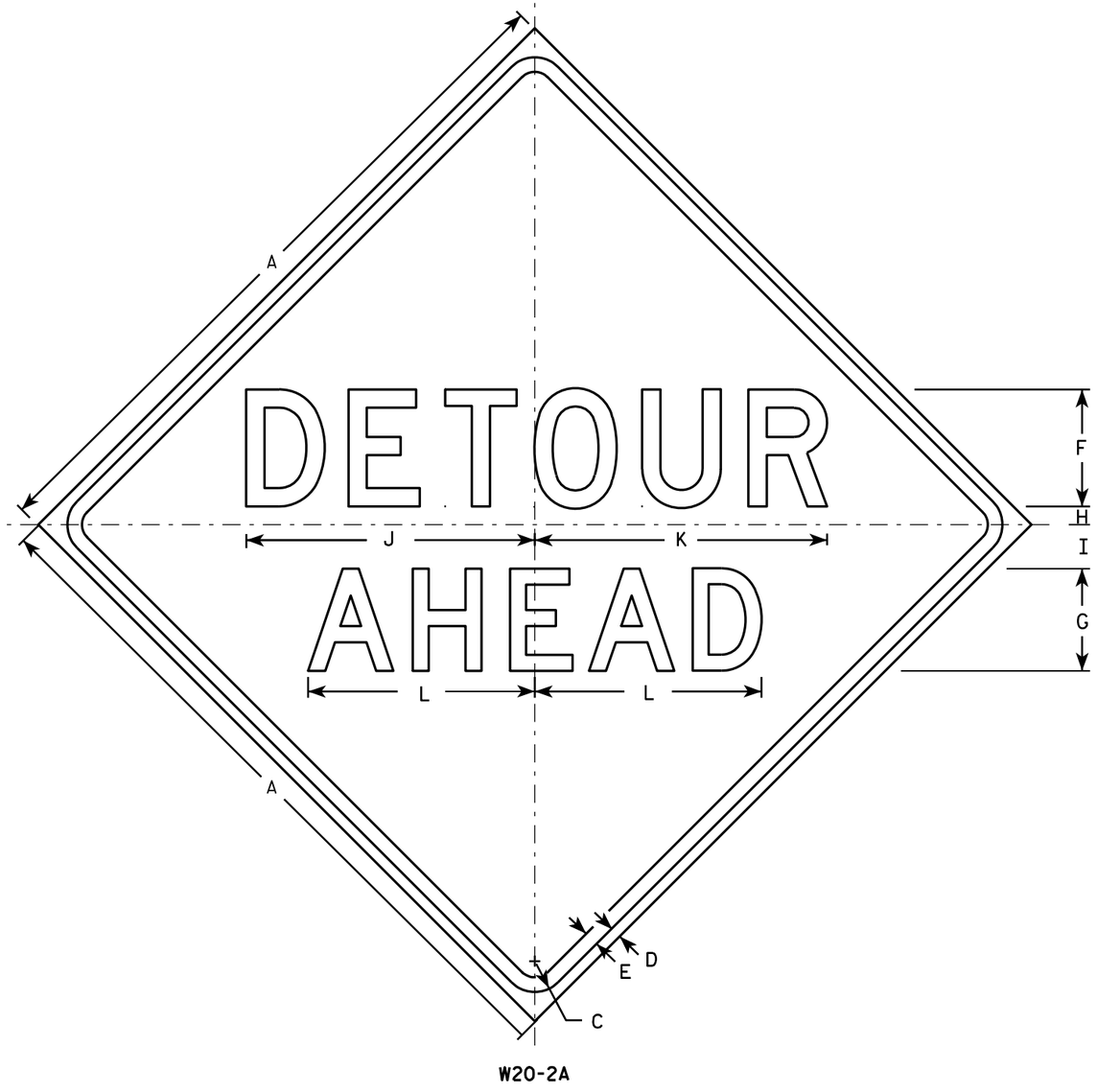
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

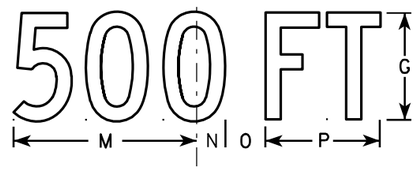
APPROVED Matthew R Rauch
for State Traffic Engineer

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

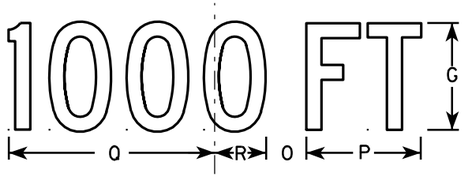
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 241 | E



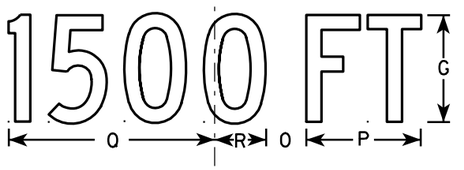
W20-2A



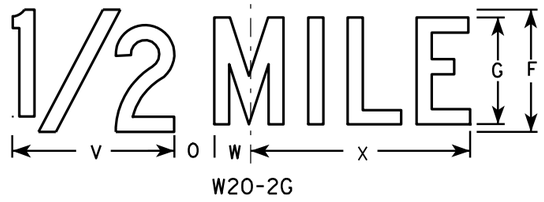
W20-2D



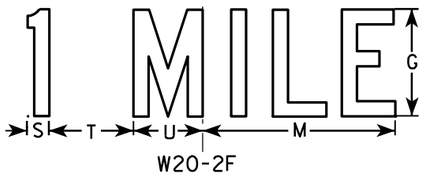
W20-2C



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

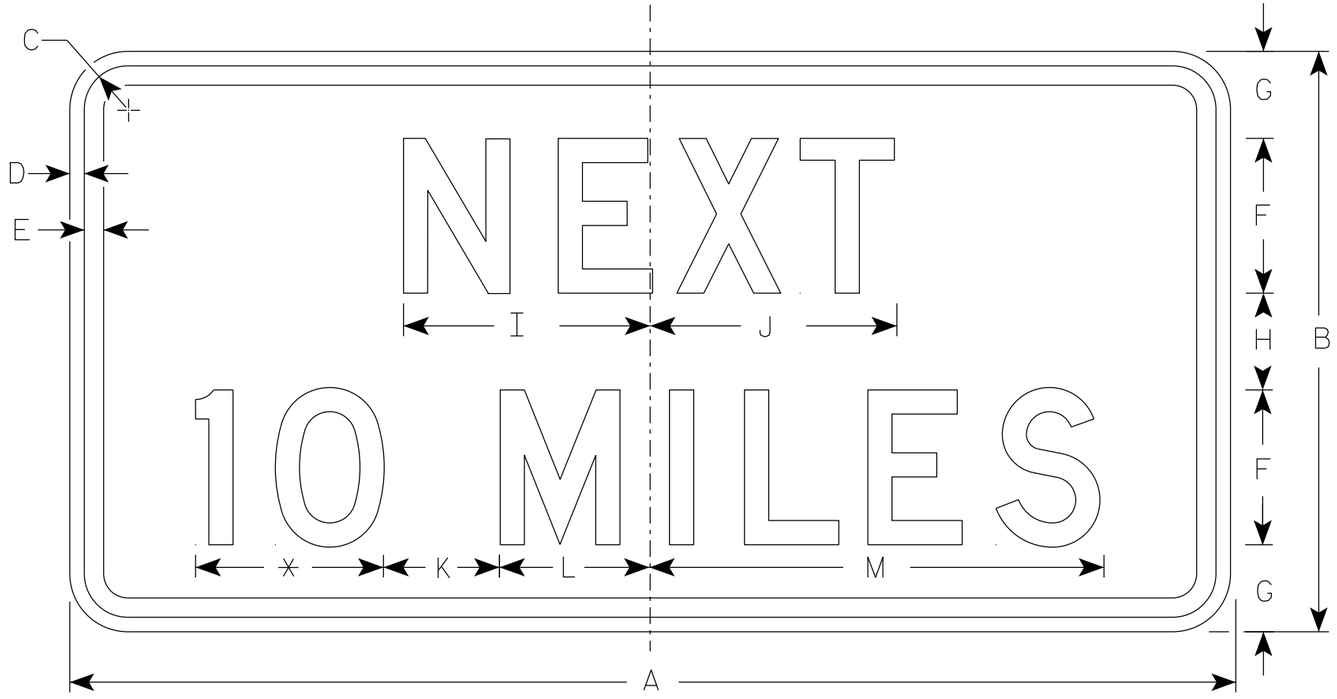
STANDARD SIGN
W20-2A,B,C,D,F & G

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: 242	E



W57-51

* See note 5

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	5	5 1/8	3	2 3/4	9 5/8														2.0
2S	30	15	1 1/8	3/8	1/2	4	2 1/2	2	6 3/8	6 3/8	3	3 7/8	11 3/4														3.13
2M	36	18	1 1/8	3/8	1/2	5	2 3/4	2 1/2	7 7/8	8	5	4 1/8	15 3/8														4.5
3	36	18	1 1/8	3/8	1/2	5	2 3/4	2 1/2	7 7/8	8	5	4 1/8	15 3/8														4.5
4	48	24	1 3/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 3/8	1/2	5/8	6	4	4	10	10 1/8	6	5 5/8	19														8.0

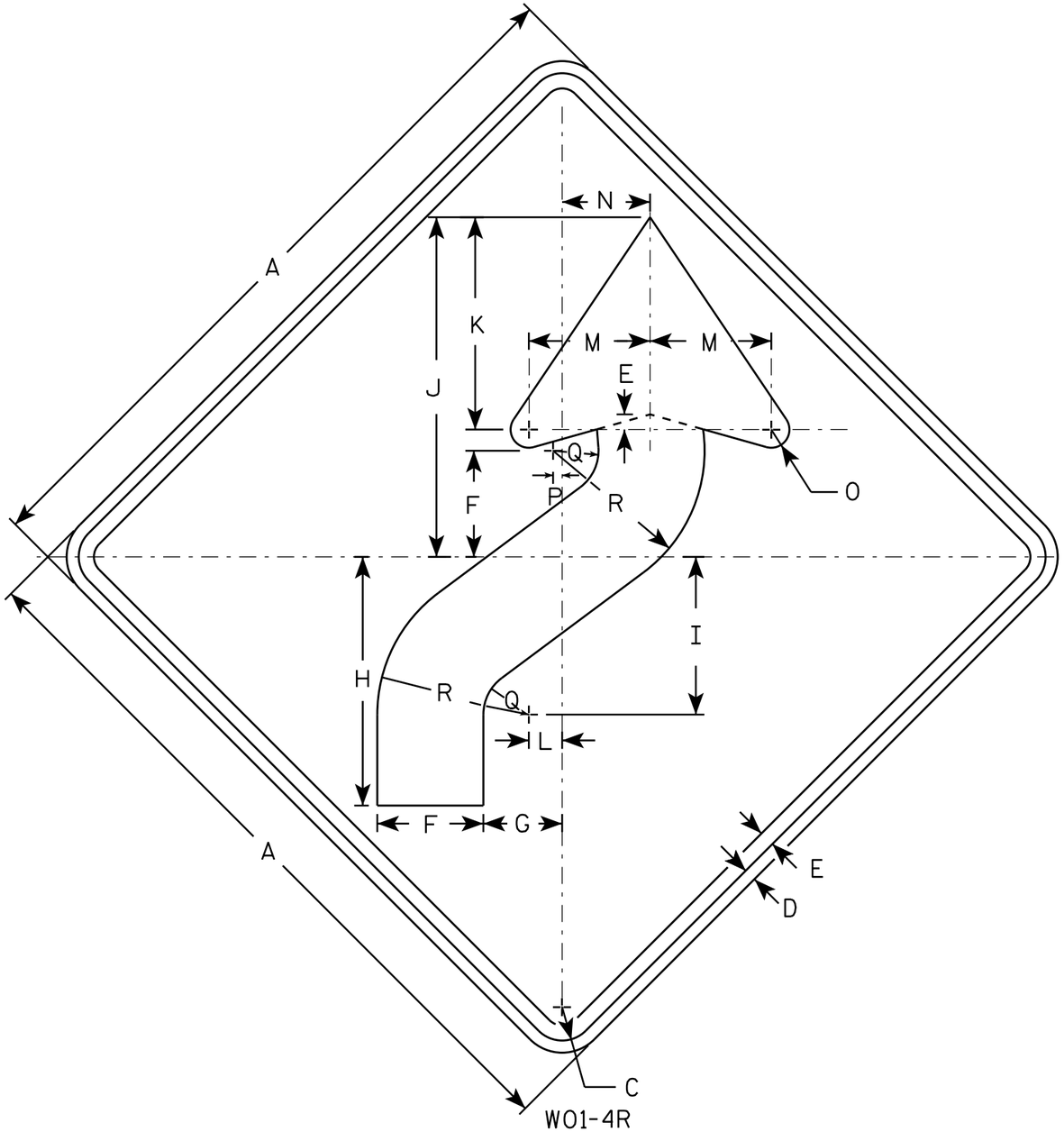
STANDARD SIGN
W57-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/1/19 PLATE NO. W57-51.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 243 | E



WO1-4R

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. 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. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
WO1-4

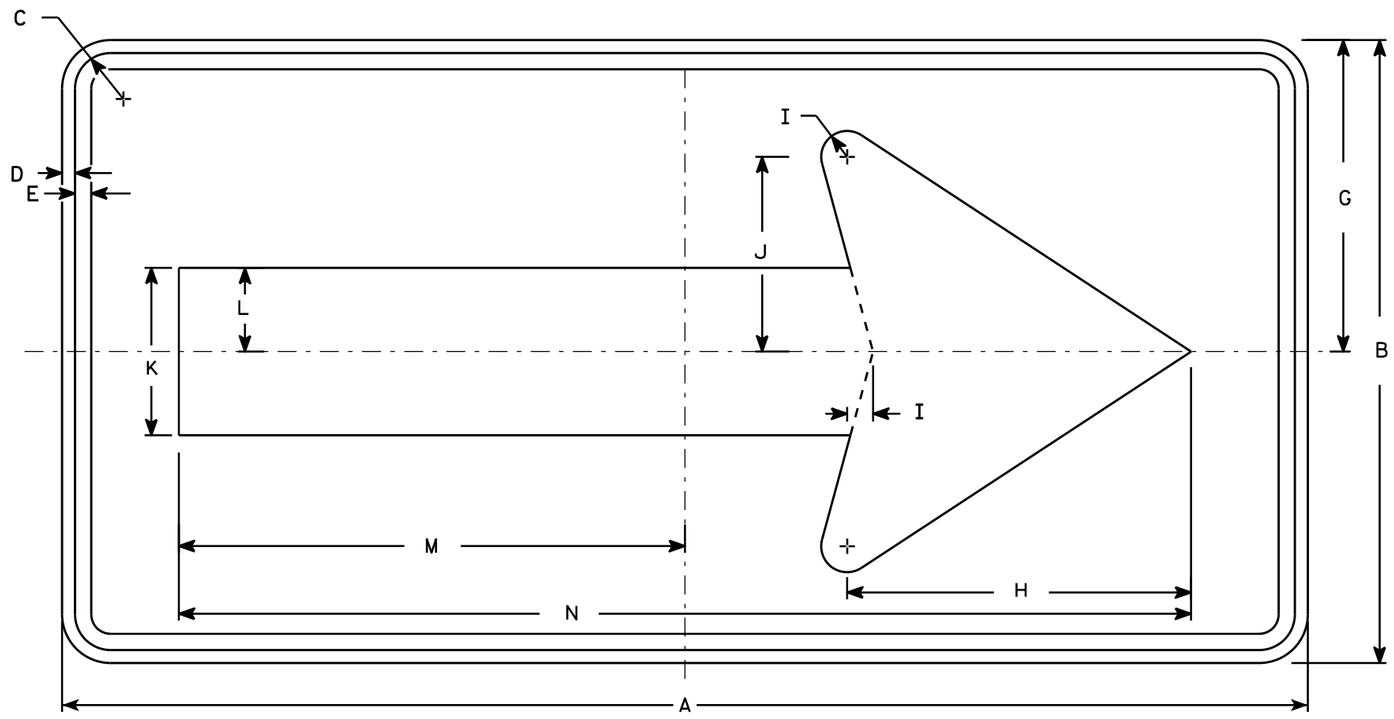
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO WO1-4.1

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO14.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

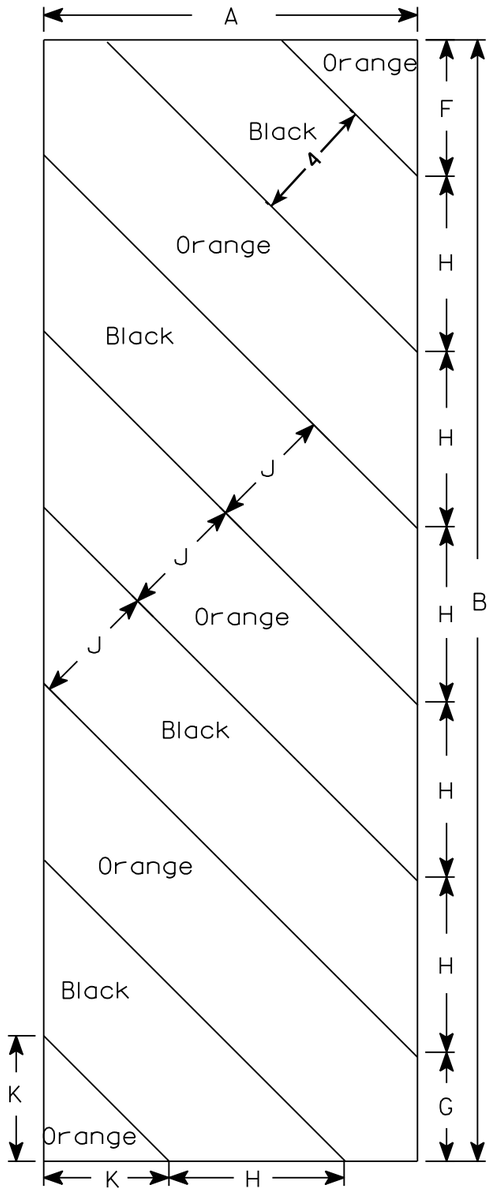
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

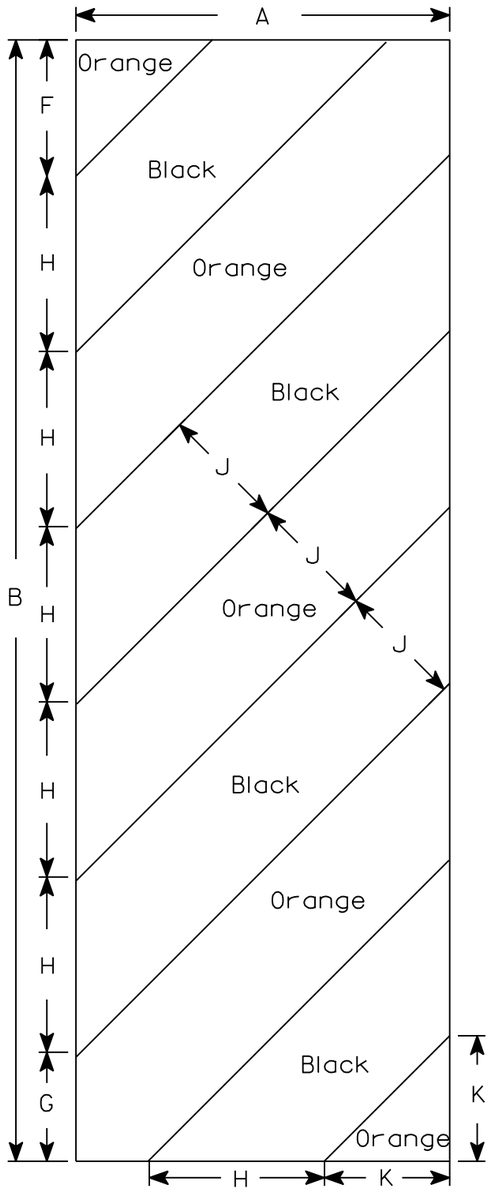
DATE 11/18/13 PLATE NO. W01-6.1

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W05-52L



W05-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

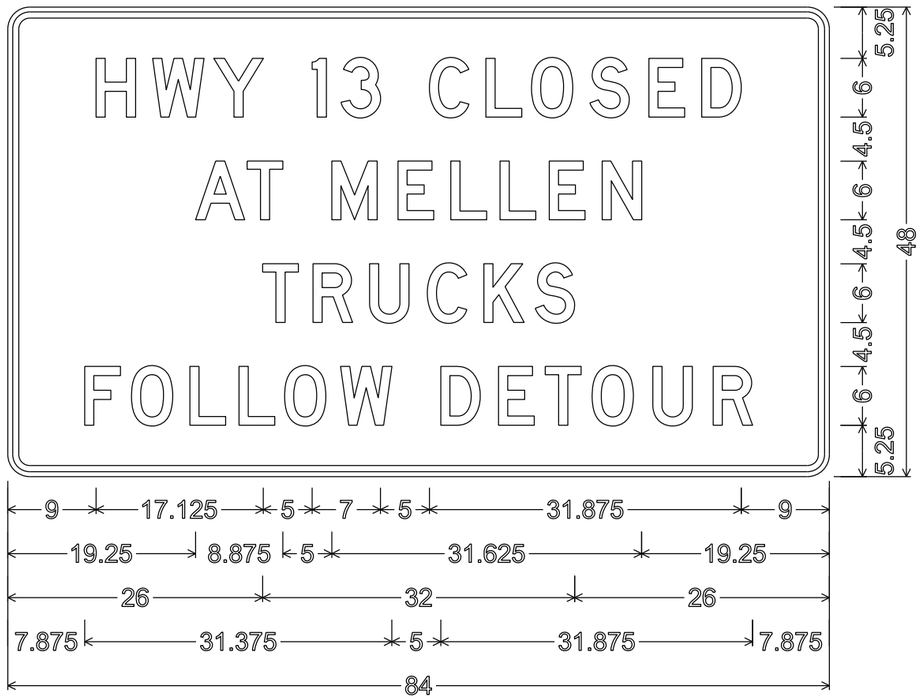
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W05-52.1

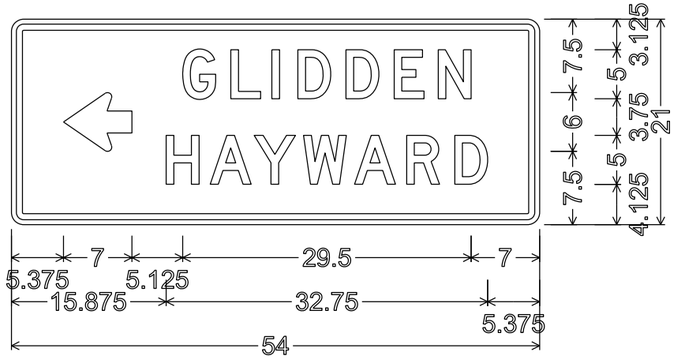
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

NOTES

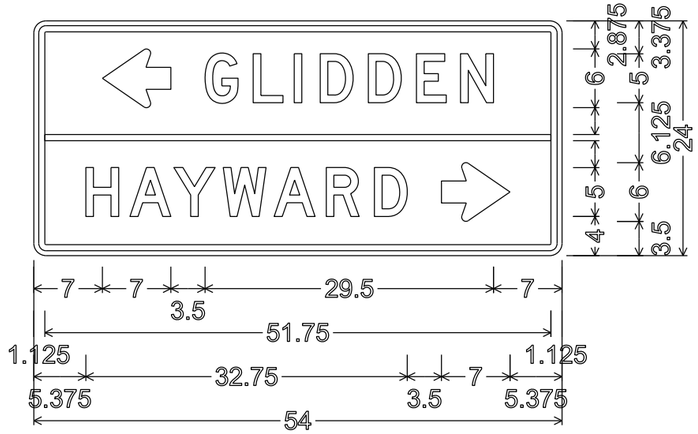
1. Sign are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



2.250" Radius, 0.625" Border, 0.500" Indent



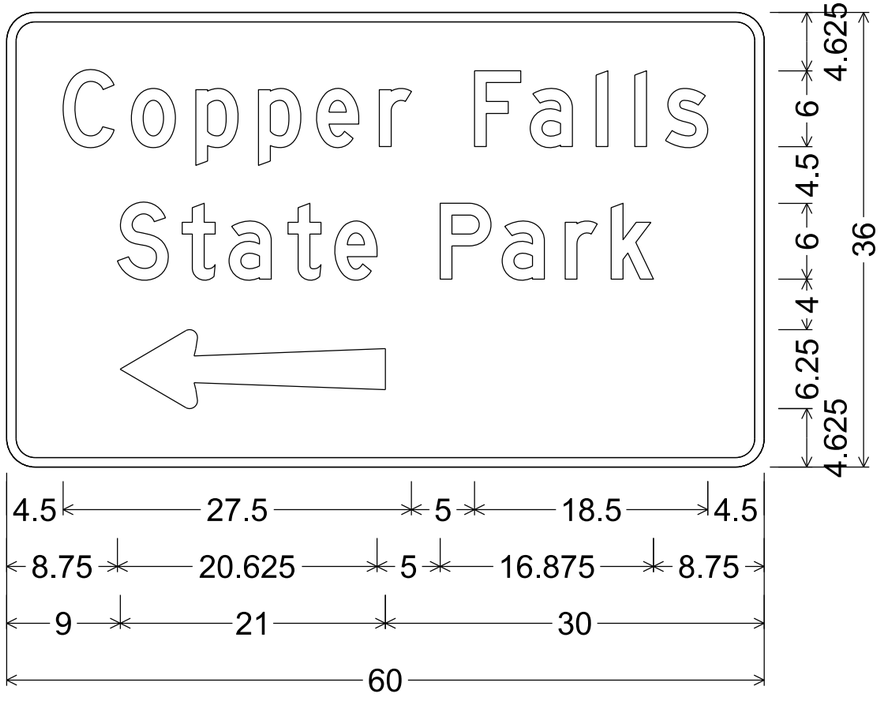
1.250" Radius, 0.625" Border, 0.500" Indent



1.250" Radius, 0.625" Border, 0.500" Indent

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Brown
   Message - White
3. Message Series - D



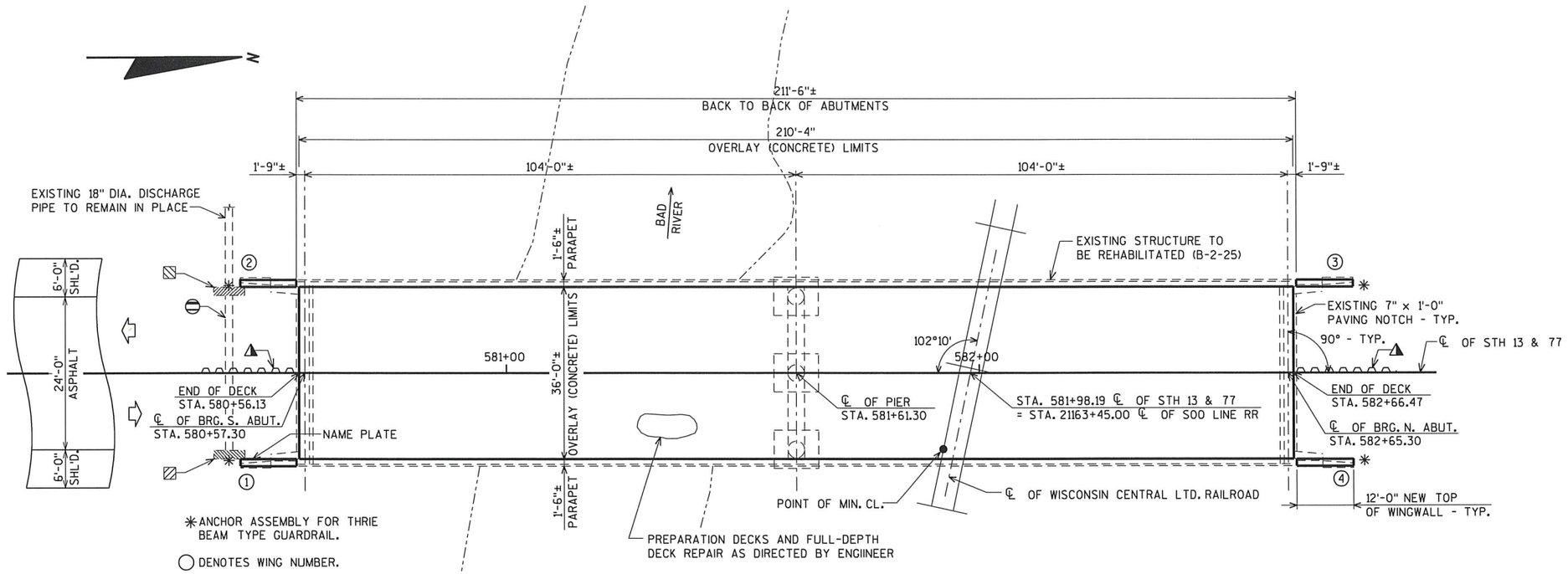
D7-53L; 2.250" Radius, 0.750" Border

7

7

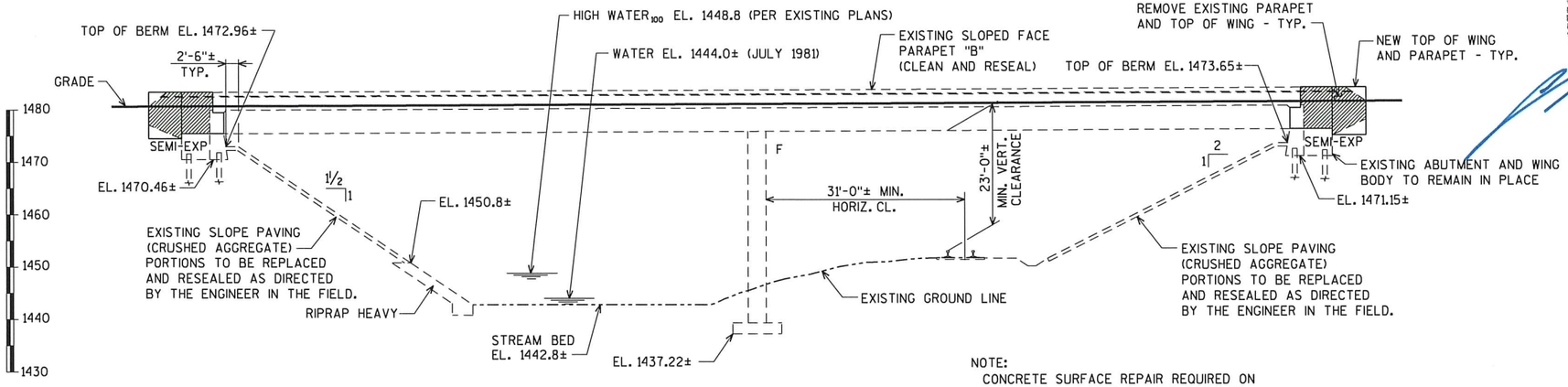
PROJECT NO: 1610-08-74	HWY: STH 13	COUNTY: ASHLAND	PERMANENT SIGNING	SHEET NO: 248	E

STATE PROJECT NUMBER
1610-11-73



PLAN

2 SPAN 54" PRESTRESSED GIRDER BRIDGE
(CONCRETE OVERLAY)



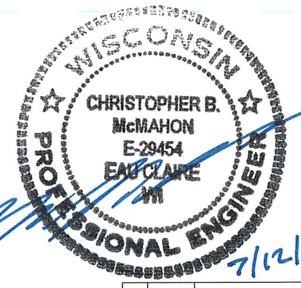
ELEVATION

NOTE:
CONCRETE SURFACE REPAIR REQUIRED ON PARAPETS, ABUTMENTS, AND PIERS AS DIRECTED BY THE ENGINEER IN THE FIELD.

FOR TYPICAL SECTIONS AND DESIGN DATA SEE SHEET 2

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTIONS
3. QUANTITIES AND NOTES
4. SOUTH ABUTMENT WING REPLACEMENT
5. NORTH ABUTMENT WING REPLACEMENT
6. SLOPED FACE PARAPET "B"



NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 08/09/19
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-2-25

STH 13 & 77 OVER THE BAD RIVER & SOO LINE RR

COUNTY	TOWN/~~CITY/VILLAGE~~
ASHLAND	GORDON

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JLB	CJM	CLS	CBM

GENERAL PLAN

SHEET 249

LD

DATE:

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

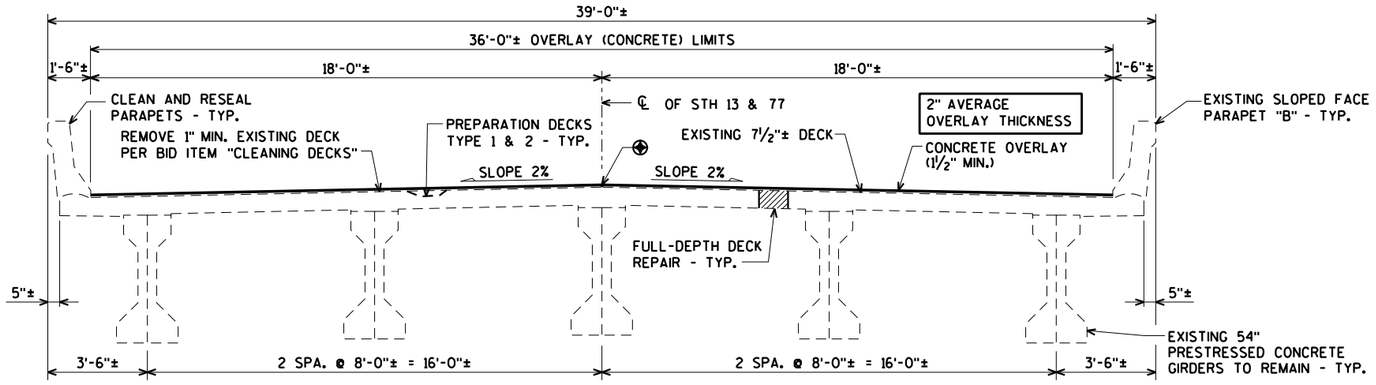
DATE:
DATE:
DATE:

CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

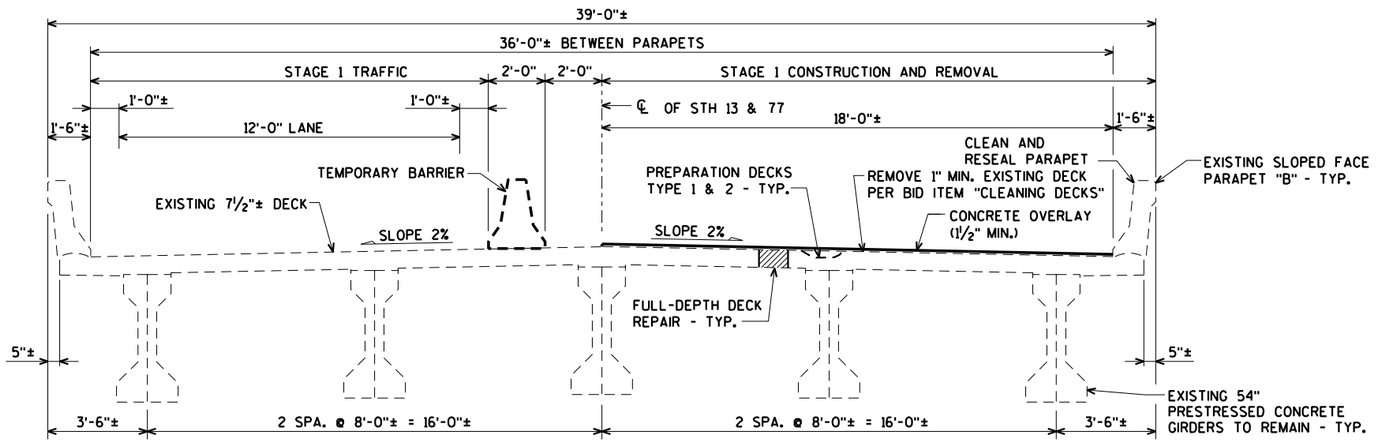
7/11/2019
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8

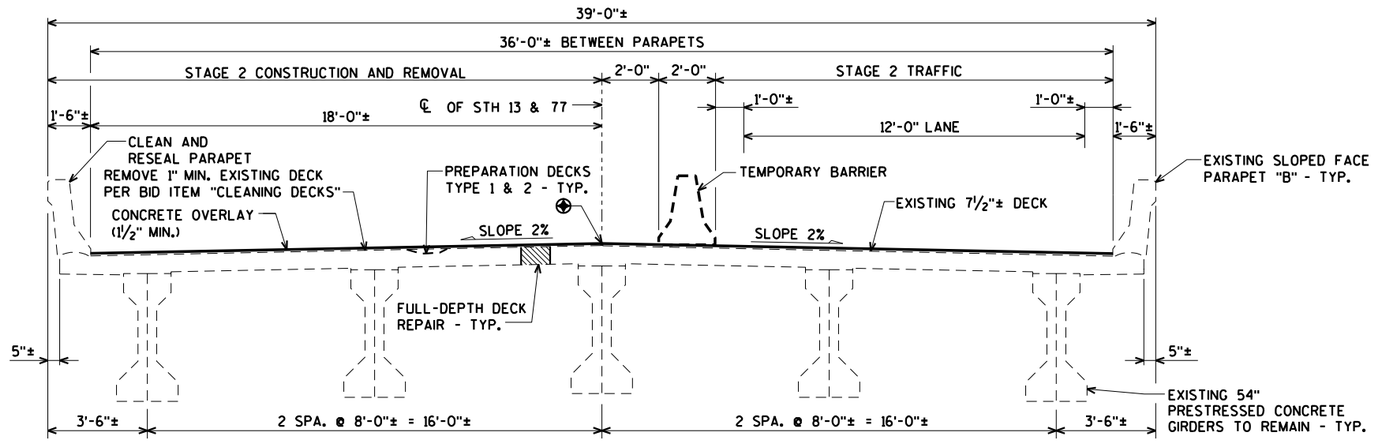
8



CROSS SECTION THRU ROADWAY
(LOOKING NORTH)

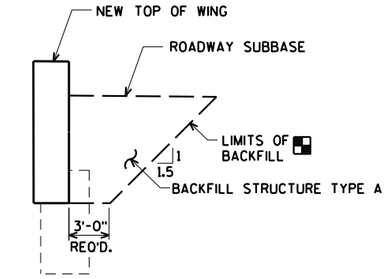


CROSS SECTION THRU ROADWAY
STAGE 1
(LOOKING NORTH)



CROSS SECTION THRU ROADWAY
STAGE 2
(LOOKING NORTH)

⊕ LONG. CONST. JOINT (AT CROWN POINT) SEAL WITH CRACK SEALER PER SECTION 502.3.13 OF STD. SPEC.



BACKFILL STRUCTURE LIMITS

■ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-19
OPERATING RATING: HS-31
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 210 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY { CONCRETE OVERLAY & PARAPETS ____ f'_c = 4,000 p.s.i.
ALL OTHER ____ f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ____ f_y = 60,000 p.s.i.

TRAFFIC DATA:

A.A.D.T. = 1,400 (2020)
A.A.D.T. = 1,600 (2040)
R.D.S. = 55 M.P.H.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-25

DRAWN BY CLS | PLANS CK'D. CBM

TYPICAL SECTIONS

SHEET 2 OF 6
250

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\42-1087.00 - Ashland Co. STH 13 and 77 over the Soo Line RR Bridge Rehab\Structures\421087 gp.dgn
4/16/2019
PENTABLE:BReau_shd_util.tbl

$PRFNAME$
V:\Structures-EC\42-1087.00 - Ashland Co. STH 13 and 77 over the Soo Line RR Bridge Rehab\Structures\421087 gp rev.dgn

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
	203.0210.S	ABATEMENT OF ASBESTOS CONTAINING MATERIAL B-2-25	LS	1
	203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 581+61.30	LS	1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-2-25	LS	1
	210.1500	BACKFILL STRUCTURE TYPE A	TON	210
	502.0100	CONCRETE MASONRY BRIDGES	CY	29
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	845
	502.3210	PIGMENTED SURFACE SEALER	SY	190
	502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	28
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,850
	509.0301	PREPARATION DECKS TYPE 1	SY	340
	509.0302	PREPARATION DECKS TYPE 2	SY	135
	509.0500	CLEANING DECKS	SY	845
◑	509.1500	CONCRETE SURFACE REPAIR	SF	100
	509.2000	FULL-DEPTH DECK REPAIR	SY	5
△	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	45
	509.9050.S	CLEANING PARAPETS	SY	170
	511.1200	TEMPORARY SHORING B-2-25	SF	400
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8
	604.9010.S	SLOPE PAVING REPAIR CRUSHED AGGREGATE	SY	45
	604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	SY	435
	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4
		NON-BID ITEMS		
		FILLER	SIZE	½"

◑ UNDISTRIBUTED FOR ABUTMENTS, PIER AND PARAPETS AS DIRECTED BY THE ENGINEER IN THE FIELD.

△ BID ITEM ALSO INCLUDES CONCRETE FOR "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", AND "FULL DEPTH DECK REPAIR".

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL PLANS.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT.

PREPARATION DECKS, CONCRETE SURFACE REPAIR, AND FULL DEPTH DECK REPAIR SHALL BE AS DETERMINED BY THE ENGINEER IN THE FIELD.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1½" AT THE CENTERLINE AND AT THE FACE OF PARAPETS PLACED ABOVE THE DECK SURFACE AFTER "CLEANING DECKS". EXPECTED AVERAGE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

ALL PREVIOUS PATCHES SHALL BE REMOVED UNDER THE BID ITEM "PREPARATION DECKS".

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM, "CLEANING DECKS", BUT LESS THAN 1½" MAXIMUM.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

PIGMENTED SURFACE SEALER IS TO BE APPLIED TO THE INSIDE FACES AND TOP SURFACES OF THE NEW PARAPETS ON THE WINGWALLS PER MANUFACTURERS RECOMMENDATIONS. THE COLOR OF THE PIGMENTED SURFACE SEALER SHALL BE WHITE.

THE INSIDE FACES AND TOP SURFACES OF THE EXISTING PARAPETS ON THE SUPERSTRUCTURE SHALL BE RESEALED. SEE SPECIAL PROVISIONS. THE COLOR OF THE SURFACE TREATMENT SHALL BE WHITE.

THE CONCRETE APPROACH SLABS AT THE ABUTMENTS WILL VARY IN THICKNESS FROM 1'-0½" MIN. AT THE ℄ OF STH 13 & 77.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR OF 1985.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES AT THE WING REPAIR.

AT WING REPAIRS, ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW WING SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

PREPARATION DECKS AND FULL DEPTH REPAIR TO BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

REMOVAL OF THE WING AREAS AND ANY FULL DEPTH DECK REPAIR SHALL CONFORM TO THE CONTAINMENT PROVIDED UNDER THE ITEM OF "REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS".

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-25

DRAWN BY CLS | PLANS CK'D. CBM

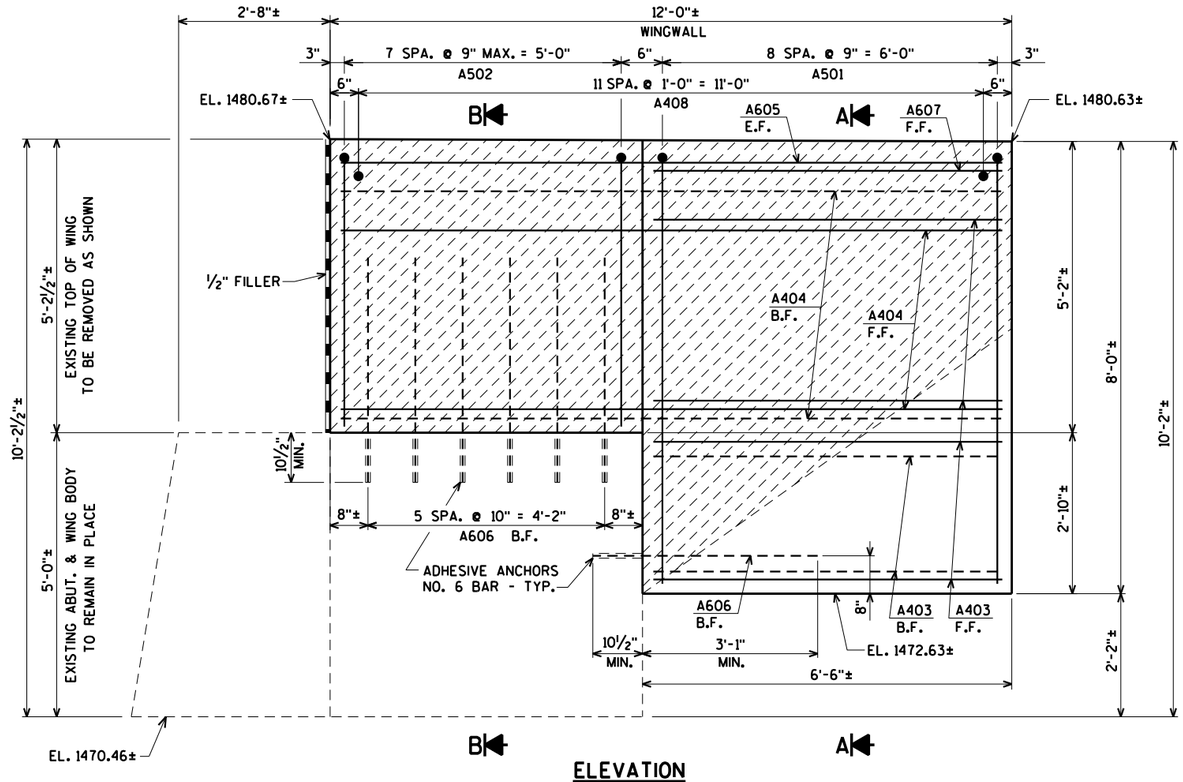
QUANTITIES AND NOTES

SHEET 3 OF 6
251

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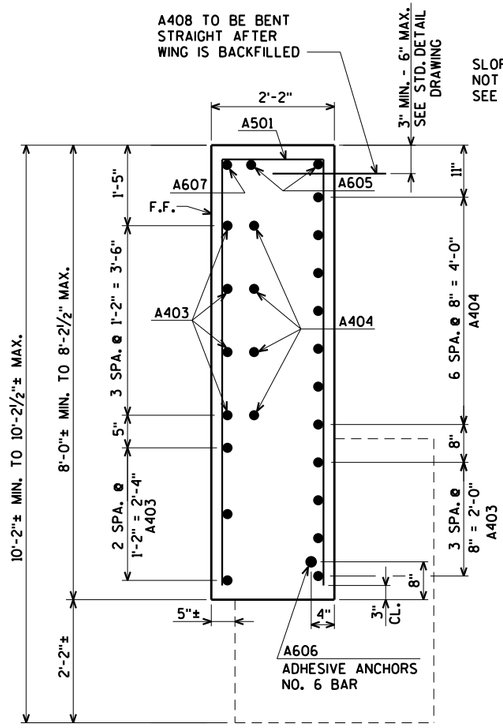
STATE PROJECT NUMBER

1610-11-73

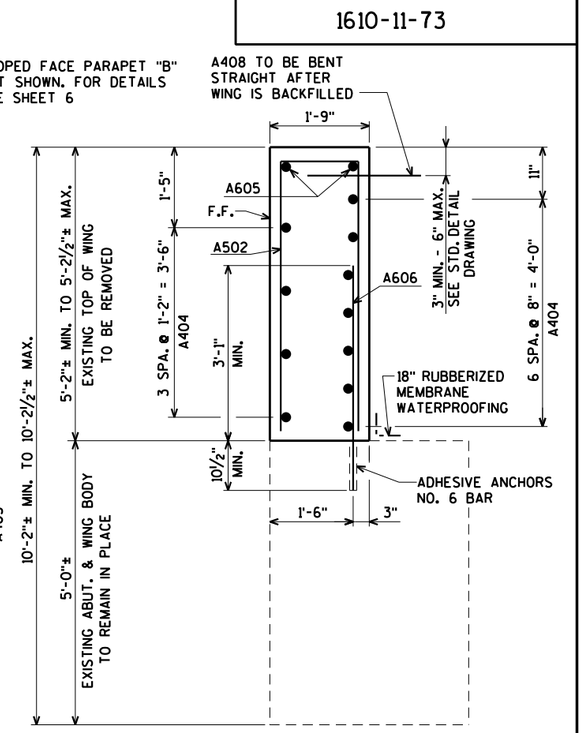


ELEVATION

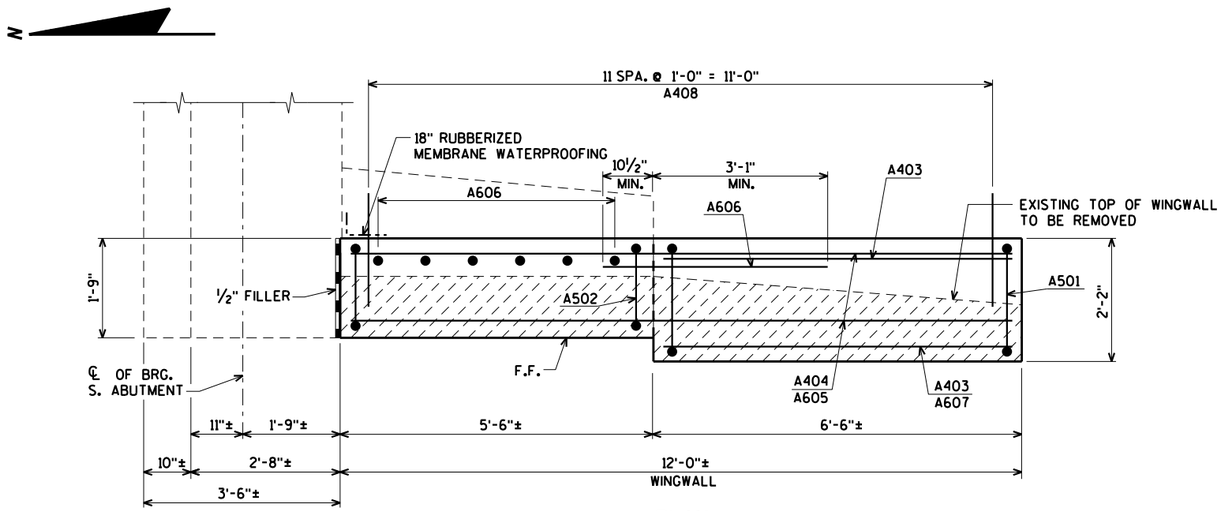
(WING 2 SHOWN, WING 1 SIMILAR)



SECTION A



SECTION B



PLAN

(WING 2 SHOWN, WING 1 SIMILAR)

BILL OF BARS

WEIGHT INCLUDES PARAPET STEEL SHOWN ON SHEET 6

	BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	1,440* COATED LOCATION
	A501	X	18	16-9	X		WING 1 & 2 VERT.
	A502	X	16	10-10	X		WING 1 & 2 VERT.
	A403	X	22	6-2			WING 1 & 2 HORIZ. E.F.
	A404	X	22	11-8			WING 1 & 2 HORIZ. E.F.
	A605	X	4	11-8			WING 1 & 2 HORIZ. E.F.
*	A606	X	14	4-0			WING 1 & 2 DOWELS B.F.
	A607	X	2	6-2			WING 1 & 2 HORIZ. F.F.
	A408	X	24	2-0			WING 1 & 2 DOWELS

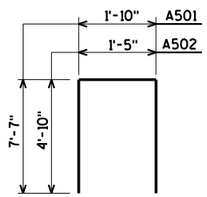
BENDING DIMENSIONS ARE OUT TO OUT OF BARS

* ADHESIVE ANCHORS NO. 6 BAR

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-25

DRAWN BY CLS | PLANS CK'D. CBM

SOUTH ABUTMENT WING REPLACEMENT

SHEET 4 OF 6

252

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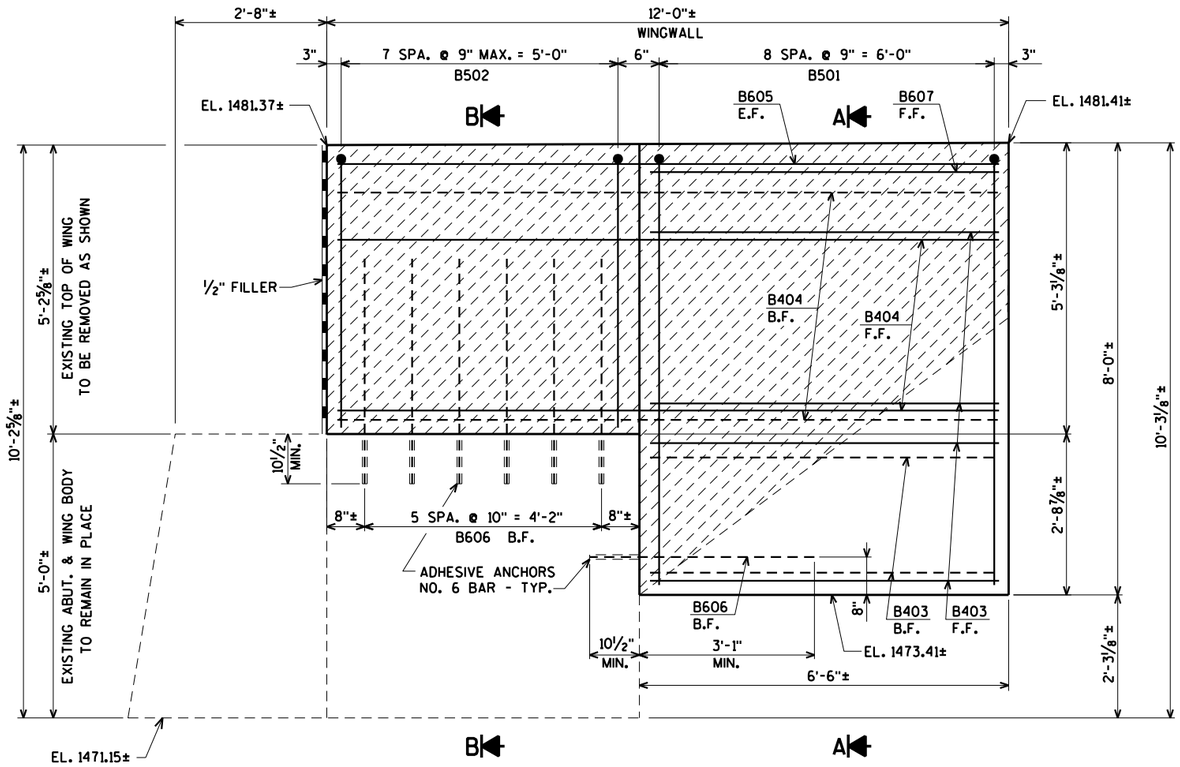
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7/12/2019
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V:±Structures-EC±42-1087.00 - Ashland Co. STH 13 and 77 over the Soo Line RR Bridge Rehab±Structures±421087 abut.dgn

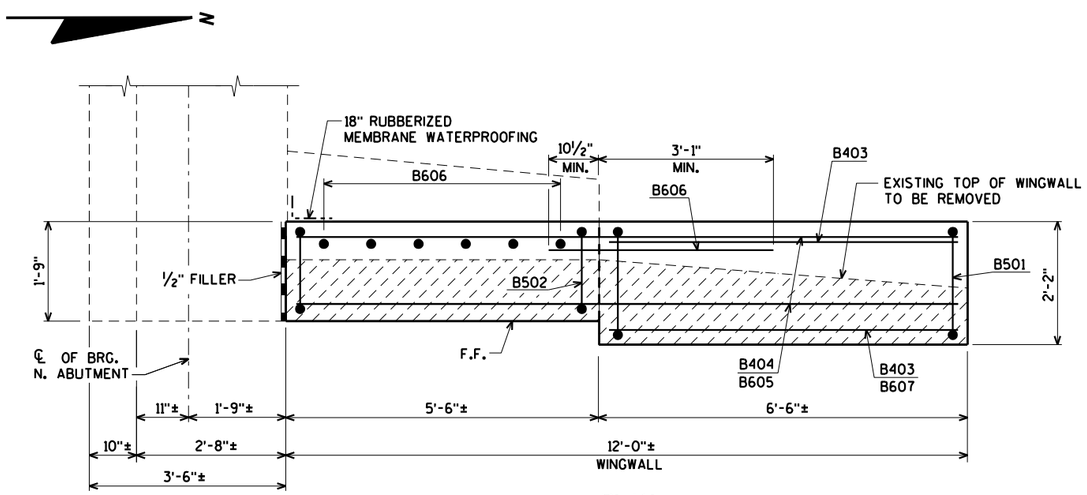
STATE PROJECT NUMBER

1610-11-73



ELEVATION

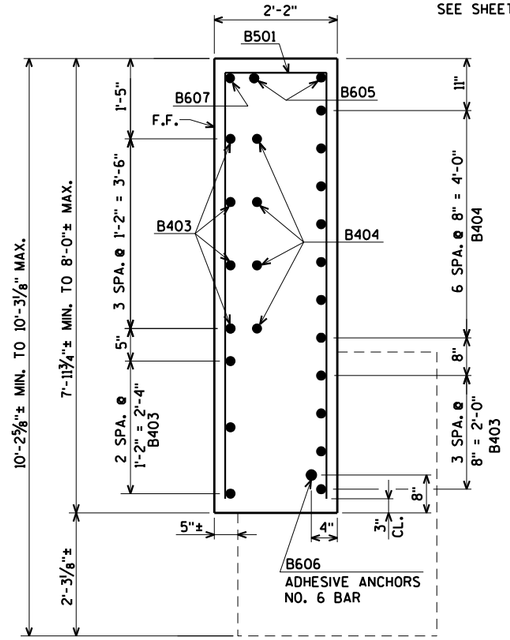
(WING 4 SHOWN, WING 3 SIMILAR)



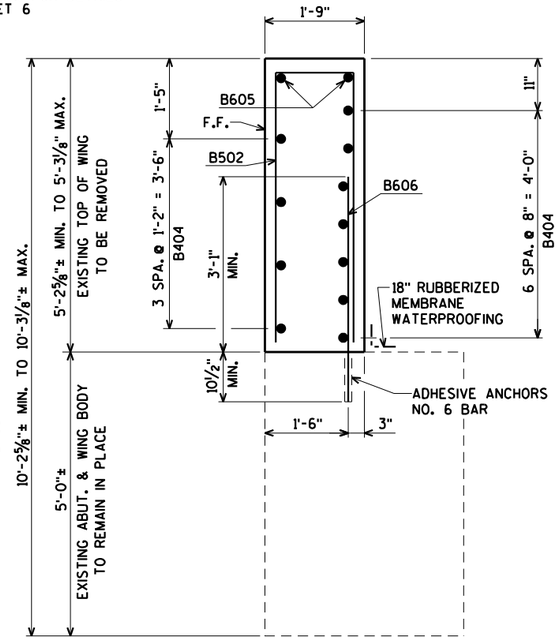
PLAN

(WING 4 SHOWN, WING 3 SIMILAR)

SLOPED FACE PARAPET "B"
NOT SHOWN. FOR DETAILS
SEE SHEET 6



SECTION A



SECTION B

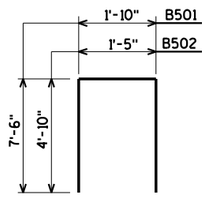
BILL OF BARS

WEIGHT INCLUDES PARAPET STEEL SHOWN ON SHEET 6

	BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR	SERIES	1.410" COATED LOCATION
	B501	X	18	16-7	X			WING 3 & 4 VERT.
	B502	X	16	10-10	X			WING 3 & 4 VERT.
	B403	X	22	6-2				WING 3 & 4 HORIZ. E.F.
	B404	X	22	11-8				WING 3 & 4 HORIZ. E.F.
	B605	X	4	11-8				WING 3 & 4 HORIZ. E.F.
*	B606	X	14	4-0				WING 3 & 4 DOWELS B.F.
	B607	X	2	6-2				WING 3 & 4 HORIZ. F.F.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS

* ADHESIVE ANCHORS NO. 6 BAR



F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-25

DRAWN BY CLS | PLANS CK'D. CBM

NORTH ABUTMENT WING REPLACEMENT

SHEET 5 OF 6

253

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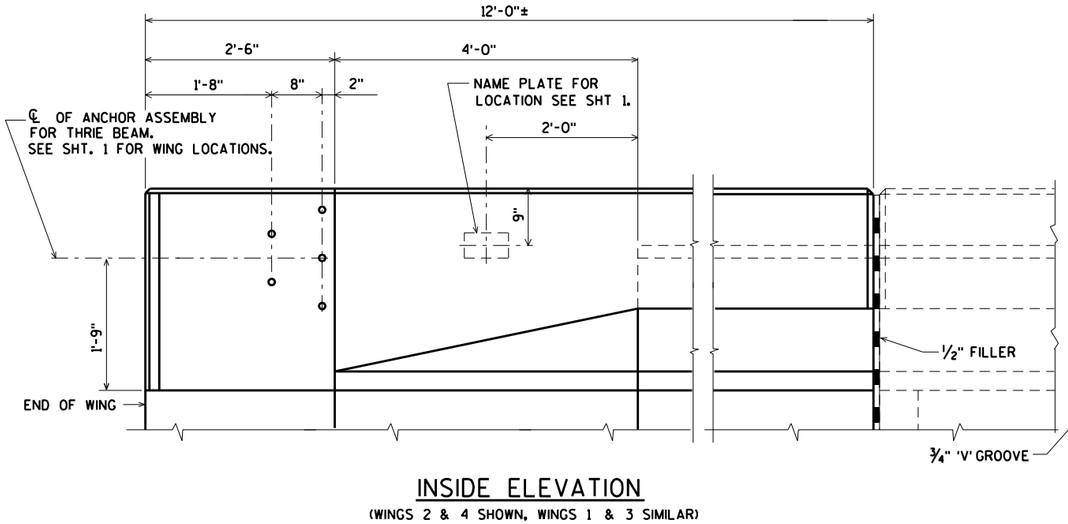
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4/16/2019
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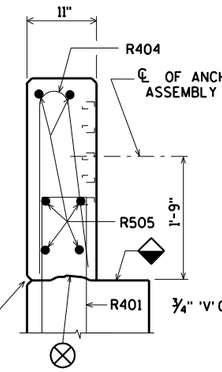
STATE PROJECT NUMBER

1610-11-73

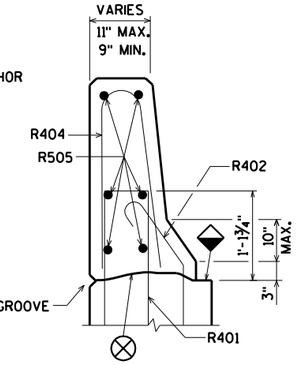


INSIDE ELEVATION

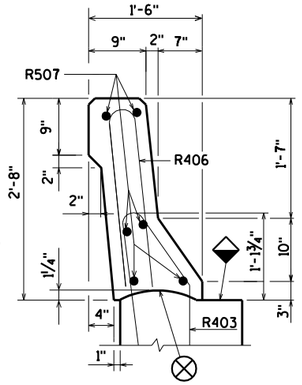
(WINGS 2 & 4 SHOWN, WINGS 1 & 3 SIMILAR)



SECTION A



SECTION B



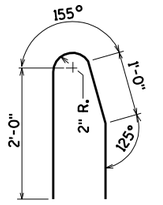
SECTION C

BILL OF BARS

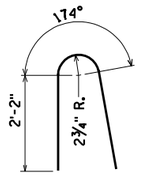
480# COATED SOUTH ABUTMENT
480# COATED NORTH ABUTMENT

BAR MARK	COATED	NO. REQ'D. SOUTH ABUT.	NO. REQ'D. NORTH ABUT.	LENGTH	BENT	LOCATION
R401	X	30	30	4-7	X	PARAPET VERT.
R402	X	8	8	3-1	X	PARAPET VERT.
R403	X	16	16	4-7	X	PARAPET VERT.
R404	X	30	30	5-0	X	PARAPET VERT.
R505	X	12	12	6-2		PARAPET HORIZ.
R406	X	16	16	4-10	X	PARAPET VERT.
R507	X	12	12	7-1		PARAPET HORIZ.

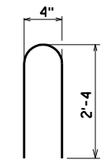
BENDING DIMENSIONS ARE OUT TO OUT OF BARS



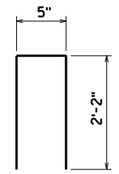
R403



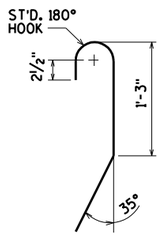
R404



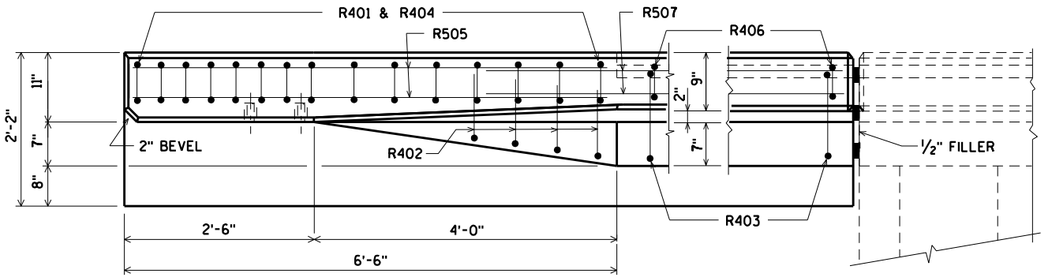
R406



R401

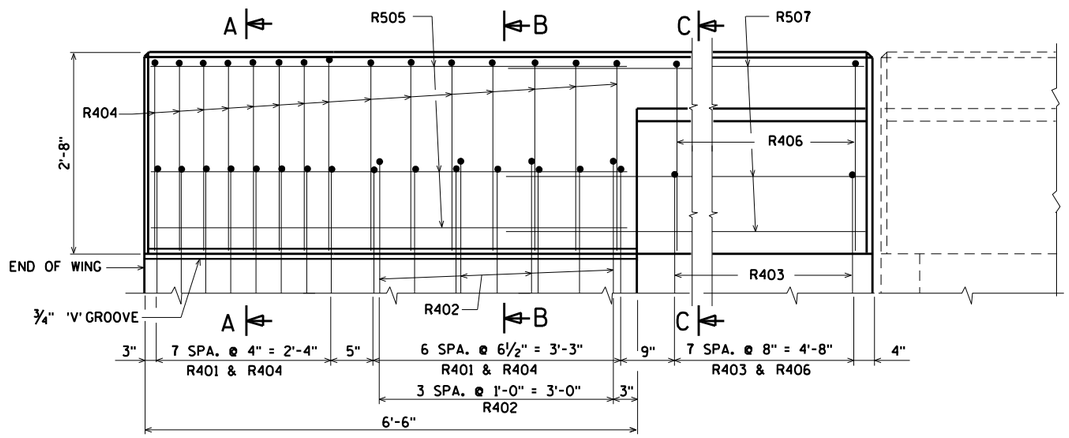


R402



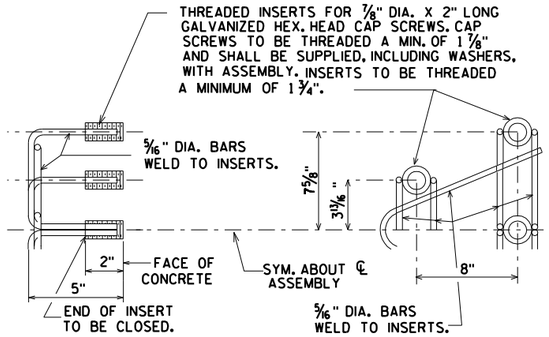
PLAN

(WINGS 2 & 4 SHOWN, WINGS 1 & 3 SIMILAR)



OUTSIDE ELEVATION

(WINGS 1 & 3 SHOWN, WINGS 2 & 4 SIMILAR)



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX. HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BIT ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

◆ FINISH SURFACE NOT COVERED BY PARAPET SAME AS ROADWAY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-2-25

DRAWN BY CLS | PLANS CK'D. CBM

SLOPED FACE PARAPET "B"

SHEET 6 OF 6
254

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4/16/2019
PENTABLE:BReau_shd_util.tbl

U:±42-1087.00 - Ashland Co. STH 13 and 77 over the Soo Line RR Bridge Rehab±Structures±421087 B para.dgn

EARTHWORK DATA: STH 13 (1610-08-74)

STATION	AREA (SF) CUT	AREA (SF) REUSEABLE CUT	AREA (SF) FILL	INCREMENTAL VOLUME (CY) CUT	INCREMENTAL VOLUME (CY) (1) REUSEABLE CUT	INCREMENTAL VOLUME (CY) (2) FILL	CUMULATIVE VOLUME (CY) MASS ORDINATE	NOTES
392+19	--	--	--	--	--	--	--	CULVERT END
392+24	--	--	--	--	--	--	--	CULVERT END
392+29	--	--	--	--	--	--	--	CULVERT END
392+35	--	--	--	--	--	--	--	CULVERT END
409+00	6.84	6.84	0.98	0.00	0.00	0.00	0.00	
410+00	1.80	1.80	31.42	16.00	16.00	70.80	-54.80	
410+87	1.33	1.33	26.94	5.04	5.04	110.95	-160.71	
411+00	1.56	1.56	24.81	0.70	0.70	14.70	-174.71	
411+54	1.93	1.93	46.97	3.49	3.49	84.70	-255.92	CULVERT END
411+58	1.90	1.90	51.65	0.28	0.28	8.62	-264.26	CULVERT END
412+00	1.90	1.90	19.39	2.96	2.96	65.20	-326.50	
413+00	1.14	1.14	22.18	5.63	5.63	90.84	-411.71	
414+00	5.97	5.97	6.70	13.17	13.17	63.11	-461.65	
			SUBTOTAL:	**47.26**	**47.26**	**508.92**		
417+00	1.22	1.22	7.21	0.00	0.00	0.00	0.00	
418+00	1.31	1.31	6.61	4.69	4.69	30.20	-25.51	
419+00	0.99	0.99	17.49	4.26	4.26	52.66	-73.92	
420+00	1.03	1.03	17.10	3.74	3.74	75.59	-145.76	
420+11	1.13	1.13	21.87	0.44	0.44	9.37	-154.69	CULVERT END
420+20	1.14	1.14	11.32	0.38	0.38	6.53	-160.84	CULVERT END
420+52	1.34	1.34	7.50	1.47	1.47	13.16	-172.53	
421+00	1.22	1.22	7.06	2.28	2.28	15.27	-185.53	
422+00	1.28	1.28	3.95	4.63	4.63	24.06	-204.95	
			SUBTOTAL:	**21.88**	**21.88**	**226.83**		
431+00	3.88	3.88	19.29	0.00	0.00	0.00	0.00	
432+00	4.54	4.54	30.25	15.59	15.59	108.25	-92.66	
433+00	3.77	3.77	72.46	15.39	15.39	224.44	-301.71	
434+00	2.61	2.61	114.43	11.81	11.81	408.39	-698.29	
435+00	2.92	2.92	126.06	10.24	10.24	525.52	-1213.56	
436+00	2.45	2.45	122.94	9.94	9.94	544.11	-1747.73	
437+00	2.45	2.45	106.19	9.07	9.07	500.69	-2239.35	
437+30	1.99	1.99	97.64	2.47	2.47	133.62	-2370.50	
438+00	2.26	2.26	172.26	5.51	5.51	412.85	-2777.84	
438+50	3.00	3.00	185.26	4.87	4.87	390.62	-3163.59	EAT POST 1
438+75	2.78	2.78	173.24	2.68	2.68	195.85	-3356.76	EAT POST 5
439+00	2.72	2.72	129.78	2.55	2.55	165.54	-3519.76	EAT POST 9
439+75	2.67	2.67	239.65	7.49	7.49	605.45	-4117.72	CULVERT END
440+00	2.90	2.90	176.63	2.58	2.58	227.41	-4342.56	
441+00	2.95	2.95	147.80	10.83	10.83	708.94	-5040.66	
442+00	2.80	2.80	186.66	10.65	10.65	730.86	-5760.87	
443+00	3.42	3.42	130.88	11.52	11.52	693.88	-6443.24	
444+00	2.81	2.81	97.19	11.54	11.54	498.38	-6930.08	
445+00	3.19	3.19	139.27	11.11	11.11	516.71	-7435.67	
445+50	3.38	3.38	79.62	6.08	6.08	239.16	-7668.75	EAT POST 9
445+75	3.57	3.57	57.05	3.22	3.22	74.66	-7740.19	EAT POST 5
446+00	3.82	3.82	39.23	3.42	3.42	52.60	-7789.37	EAT POST 1
447+00	2.43	2.43	28.95	11.57	11.57	148.99	-7926.78	
448+00	4.13	4.13	14.39	12.15	12.15	94.71	-8009.34	
			SUBTOTAL:	**192.28**	**192.28**	**8201.62**		
455+23	23.38	23.38	16.37	0.00	0.00	0.00	0.00	
456+00	3.36	3.36	83.72	38.13	38.13	168.41	-130.28	
456+23	2.64	2.64	136.66	2.56	2.56	110.76	-238.49	CULVERT END
457+00	3.17	3.17	62.26	8.28	8.28	334.70	-564.90	
458+00	3.51	3.51	46.03	12.37	12.37	236.63	-789.17	
459+00	3.04	3.04	111.12	12.13	12.13	343.40	-1120.44	
460+00	3.14	3.14	124.57	11.44	11.44	515.03	-1624.02	
460+10	3.02	3.02	182.32	1.14	1.14	67.06	-1689.94	CULVERT END
461+00	2.55	2.55	155.00	9.28	9.28	663.40	-2344.05	
462+00	3.39	3.39	19.72	11.00	11.00	381.80	-2714.85	
463+00	3.66	3.66	14.67	13.06	13.06	75.15	-2776.94	
			SUBTOTAL:	**119.39**	**119.39**	**2896.34**		

PLOT DATE : June 14, 1911
PLOT BY : A.R.H.
PLOT NAME:
PLOT SCALE : 1:1

PLOT DATE : June 14, 1911
PLOT BY : A.R.H.
PLOT NAME:
PLOT SCALE : 1:1

EARTHWORK DATA: STH 13 (1610-08-74)

STATION	AREA (SF) CUT	AREA (SF) REUSEABLE CUT	AREA (SF) FILL	INCREMENTAL VOLUME (CY) CUT	INCREMENTAL VOLUME (CY) (1) REUSEABLE CUT	INCREMENTAL VOLUME (CY) (2) FILL	CUMULATIVE VOLUME (CY) MASS ORDINATE	NOTES
468+00	5.77	5.77	4.61	0.00	0.00	0.00	0.00	
469+00	3.50	3.50	13.72	17.17	17.17	40.05	-22.89	
469+30	3.78	3.78	16.79	4.04	4.04	20.00	-38.84	
470+00	3.02	3.02	47.66	8.81	8.81	98.58	-128.61	
470+50	3.32	3.32	83.37	5.87	5.87	143.16	-265.91	EAT POST 1
470+75	3.50	3.50	91.50	3.16	3.16	95.53	-358.28	EAT POST 5
471+00	3.67	3.67	122.56	3.32	3.32	116.94	-471.90	EAT POST 9
472+00	3.19	3.19	167.70	12.70	12.70	634.27	-1093.47	
472+31	5.59	5.59	219.88	5.04	5.04	262.55	-1350.98	CULVERT END
472+36	2.63	2.63	209.28	0.76	0.76	46.89	-1397.11	CULVERT END
473+00	2.65	2.65	134.80	6.26	6.26	481.20	-1872.05	
474+00	2.68	2.68	142.88	9.87	9.87	606.78	-2468.96	
475+00	2.45	2.45	123.68	9.50	9.50	582.48	-3041.95	
476+00	3.15	3.15	125.65	10.37	10.37	544.83	-3576.41	
477+00	3.16	3.16	155.70	11.69	11.69	614.80	-4179.52	
478+00	3.04	3.04	190.53	11.48	11.48	756.58	-4924.62	
478+25	3.29	3.29	238.76	2.93	2.93	234.52	-5156.21	CULVERT END
478+32	3.35	3.35	251.63	0.86	0.86	75.01	-5230.36	CULVERT END
479+00	3.12	3.12	147.69	8.15	8.15	593.36	-5815.57	
479+50	3.58	3.58	120.79	6.20	6.20	293.34	-6102.71	EAT POST 9
479+75	3.87	3.87	84.06	3.45	3.45	111.91	-6211.17	EAT POST 5
480+00	4.16	4.16	74.64	3.72	3.72	86.70	-6294.15	EAT POST 1
481+00	4.46	4.46	22.94	15.96	15.96	213.23	-6491.41	
481+26	1.73	1.73	7.63	2.98	2.98	17.37	-6505.80	
481+46	1.65	1.65	6.96	1.25	1.25	6.38	-6510.93	
482+00	1.48	1.48	6.30	3.13	3.13	15.65	-6523.44	
483+00	22.29	22.29	0.00	44.02	44.02	13.77	-6493.19	
			SUBTOTAL:	**212.70**	**212.70**	**6705.89**		
497+50	3.69	3.69	22.54	0.00	0.00	0.00	0.00	
498+00	3.88	3.88	26.57	7.01	7.01	53.66	-46.65	
499+00	3.42	3.42	44.96	13.52	13.52	156.31	-189.44	
499+65	3.89	3.89	43.37	8.80	8.80	125.46	-306.10	CULVERT END
500+00	3.47	3.47	40.21	4.77	4.77	63.92	-365.25	
501+00	3.28	3.28	36.65	12.50	12.50	167.95	-520.70	
502+00	3.27	3.27	40.92	12.13	12.13	169.50	-678.08	
503+00	3.44	3.44	45.52	12.43	12.43	188.89	-854.54	
504+00	3.47	3.47	37.66	12.80	12.80	181.76	-1023.51	
505+00	3.13	3.13	56.08	12.22	12.22	204.84	-1216.13	
506+00	2.82	2.82	53.01	11.02	11.02	238.38	-1443.49	
507+00	3.35	3.35	56.88	11.43	11.43	240.13	-1672.19	
507+62	3.40	3.40	95.49	7.75	7.75	206.43	-1870.88	CULVERT END
508+00	3.28	3.28	53.73	4.70	4.70	123.91	-1990.08	
509+00	3.75	3.75	58.57	13.02	13.02	245.40	-2222.46	
510+00	3.77	3.77	40.67	13.93	13.93	216.86	-2425.39	
511+23	5.28	5.28	14.59	20.61	20.61	148.53	-2553.31	
			SUBTOTAL:	**178.62**	**178.62**	**2731.93**		
524+00	4.31	4.31	34.36	0.00	0.00	0.00	0.00	
525+00	4.04	4.04	51.55	15.46	15.46	187.73	-172.27	
526+00	2.94	2.94	82.16	12.93	12.93	292.18	-451.52	
527+00	3.75	3.75	94.65	12.39	12.39	386.36	-825.50	
527+99	2.43	2.43	284.56	11.33	11.33	820.36	-1634.52	CULVERT END
528+00	2.39	2.39	286.94	0.09	0.09	12.49	-1646.92	
528+03	2.30	2.30	291.14	0.26	0.26	37.90	-1684.56	CULVERT END
528+08	2.13	2.13	295.25	0.41	0.41	64.07	-1748.22	CULVERT END
528+12	2.02	2.02	298.91	0.31	0.31	51.93	-1799.84	CULVERT END
529+00	2.49	2.49	191.77	7.35	7.35	943.56	-2736.05	
530+00	2.36	2.36	97.86	8.98	8.98	632.90	-3359.97	
531+00	2.85	2.85	77.00	9.65	9.65	382.10	-3732.42	
532+00	2.95	2.95	33.15	10.74	10.74	240.70	-3962.38	
533+00	3.86	3.86	17.80	12.61	12.61	111.34	-4061.10	
533+28	3.99	3.99	13.25	4.07	4.07	19.00	-4076.03	
			SUBTOTAL:	**106.58**	**106.58**	**4182.61**		

PLOT DATE : June 14, 1911
PLOT BY : A.R.H.
PLOT NAME:
PLOT SCALE : 1:1

EARTHWORK DATA: STH 13 (1610-08-74)

	AREA (SF)			INCREMENTAL VOLUME (CY)			CUMULATIVE VOLUME (CY)	NOTES
STATION	CUT	REUSEABLE CUT	FILL	CUT	(1) REUSEABLE CUT	(2) FILL	MASS ORDINATE	
550+00	1.60	1.60	7.53	0.00	0.00	0.00	0.00	
550+79	1.55	1.55	13.60	4.61	4.61	36.48	-31.87	
551+00	1.89	1.89	14.36	1.34	1.34	12.83	-43.36	
552+00	1.68	1.68	36.08	6.61	6.61	110.22	-146.97	
552+24	19.60	19.60	59.82	9.46	9.46	50.29	-187.81	
553+00	1.74	1.74	127.97	30.03	30.03	311.87	-469.64	
554+00	1.66	1.66	114.77	6.30	6.30	530.43	-993.78	
555+00	1.91	1.91	119.67	6.61	6.61	512.29	-1499.46	
556+00	1.31	1.31	147.46	5.96	5.96	583.73	-2077.23	
556+96	1.46	1.46	204.77	4.92	4.92	738.90	-2811.20	CULVERT END
556+98	1.44	1.44	199.62	0.11	0.11	17.67	-2828.77	CULVERT END
557+00	1.44	1.44	192.35	0.11	0.11	17.13	-2845.79	
558+00	2.64	2.64	52.93	7.56	7.56	535.98	-3374.22	
558+17	2.83	2.83	42.22	1.72	1.72	35.35	-3407.85	
559+00	1.64	1.64	23.22	6.87	6.87	118.69	-3519.66	
560+00	1.86	1.86	19.87	6.48	6.48	94.16	-3607.34	
561+00	0.22	0.22	14.45	3.85	3.85	75.00	-3678.49	
562+00	0.14	0.14	12.48	0.67	0.67	58.85	-3736.67	
563+00	0.39	0.39	11.41	0.98	0.98	52.20	-3787.89	
564+00	0.49	0.49	14.42	1.63	1.63	56.44	-3842.70	
564+58	0.64	0.64	20.15	1.21	1.21	43.81	-3885.30	CULVERT END
565+00	0.62	0.62	12.45	0.98	0.98	29.92	-3914.24	
			SUBTOTAL:	**108.01**	**108.01**	**4022.25**		
588+97	--	--	--	--	--	--	--	CULVERT END -L
589+02	--	--	--	--	--	--	--	CULVERT END - R
596+48	--	--	--	--	--	--	--	CULVERT END
606+60	--	--	--	--	--	--	--	CULVERT END
611+00	26.58	26.58	6.49	0.00	0.00	0.00	0.00	
612+00	4.48	4.48	43.76	57.52	57.52	109.81	-52.29	
613+00	4.23	4.23	62.12	16.13	16.13	231.37	-267.52	
614+00	4.59	4.59	28.23	16.33	16.33	197.43	-448.62	
615+00	3.70	3.70	18.39	15.35	15.35	101.87	-535.14	
615+48	3.87	3.87	64.24	6.73	6.73	86.67	-615.09	CULVERT END
616+00	4.84	4.84	11.09	8.39	8.39	85.60	-692.30	
617+00	4.65	4.65	11.17	17.57	17.57	48.64	-723.36	
			SUBTOTAL:	**138.02**	**138.02**	**861.39**		
621+73	--	--	--	--	--	--	--	CULVERT END
632+00	1.01	1.01	6.34	0.00	0.00	0.00	0.00	
632+57	0.98	0.98	6.42	2.10	2.10	15.89	-13.79	
633+00	1.35	1.35	10.43	1.86	1.86	15.83	-27.77	
634+00	0.90	0.90	12.73	4.17	4.17	50.61	-74.21	
635+00	0.79	0.79	18.69	3.13	3.13	68.66	-139.74	
636+00	0.74	0.74	17.83	2.83	2.83	79.80	-216.71	
636+35	5.56	5.56	37.01	4.08	4.08	41.94	-254.57	CULVERT END
636+45	4.23	4.23	41.00	1.81	1.81	17.05	-269.80	CULVERT END
637+00	3.09	3.09	20.68	7.46	7.46	74.13	-336.48	
638+00	2.36	2.36	47.75	10.09	10.09	149.53	-475.92	
639+00	0.04	0.04	52.86	4.44	4.44	219.85	-691.32	
639+32	0.06	0.06	53.50	0.06	0.06	74.37	-765.64	
640+00	1.02	1.02	39.81	1.36	1.36	138.65	-902.93	
641+00	2.38	2.38	19.41	6.30	6.30	129.41	-1026.04	
641+50	3.31	3.31	2.90	5.27	5.27	24.38	-1045.15	
			SUBTOTAL:	**54.96**	**54.96**	**1100.11**		
TOTAL	**510.32**	**510.32**	**11794.64**	**1179.71**	**1179.71**	**31437.88**		

-- (1): REUSEABLE CUT MATERIAL AVAILABLE FOR USE IN CONSTRUCTION OUTSIDE ROADWAY 1:1

-- (2): FILL QUANTITIES ARE EXPANDED (SELECT BORROW=1.18)

STATION	AREA (SF) CUT	AREA (SF) REUSEABLE CUT	AREA (SF) FILL	INCREMENTAL VOLUME (CY) CUT	INCREMENTAL VOLUME (CY) (1) REUSEABLE CUT	INCREMENTAL VOLUME (CY) (2) FILL	CUMULATIVE VOLUME (CY) MASS ORDINATE	NOTES
667+00	5.22	5.22	29.65	0.00	0.00	0.00	0.00	
668+00	3.71	3.71	50.20	16.54	16.54	174.49	-157.95	
669+00	3.79	3.79	41.39	13.89	13.89	200.14	-344.20	
670+00	3.37	3.37	42.30	13.26	13.26	182.88	-513.82	
670+76	3.65	3.65	87.99	9.88	9.88	216.38	-720.32	CULVERT END
671+00	4.01	4.01	54.37	3.40	3.40	74.66	-791.57	
672+00	3.81	3.81	42.47	14.48	14.48	211.61	-988.71	
673+00	4.37	4.37	15.79	15.15	15.15	127.31	-1100.87	
674+00	5.01	5.01	14.97	17.37	17.37	67.22	-1150.71	
675+00	3.46	3.46	63.71	15.69	15.69	171.93	-1306.96	
676+00	4.10	4.10	87.29	14.00	14.00	329.96	-1622.92	
676+31	3.88	3.88	125.92	4.58	4.58	144.43	-1762.77	CULVERT END
677+00	3.99	3.99	78.48	10.06	10.06	308.19	-2060.90	
678+00	4.43	4.43	29.84	15.59	15.59	236.70	-2282.01	
679+00	7.86	7.86	15.56	22.76	22.76	99.21	-2358.46	
			SUBTOTAL:	**186.64**	**186.64**	**2545.10**		
681+31	--	--	--	--	--	--	--	CULVERT END
693+30	5.20	5.20	3.55	0.00	0.00	0.00	0.00	
694+00	6.84	6.84	24.26	15.61	15.61	42.54	-26.93	
694+59	4.74	4.74	85.36	12.65	12.65	141.33	-155.61	CULVERT END
694+87	4.01	4.01	125.01	4.54	4.54	128.72	-279.79	CULVERT END
695+00	4.10	4.10	114.40	1.95	1.95	68.01	-345.84	
696+00	6.37	6.37	28.66	19.39	19.39	312.61	-639.07	
696+23	6.60	6.60	18.60	5.52	5.52	23.75	-657.30	
696+24	1.88	1.88	18.03	0.16	0.16	0.80	-657.94	
697+00	1.97	1.97	10.28	5.42	5.42	47.02	-699.54	
698+00	2.93	2.93	4.61	9.07	9.07	32.54	-723.00	
			SUBTOTAL:	**74.31**	**74.31**	**797.31**		
710+60	8.86	8.86	0.35	0.00	0.00	0.00	0.00	
711+00	6.61	6.61	5.03	11.46	11.46	4.70	6.76	
711+58	7.08	7.08	9.48	14.70	14.70	18.39	3.07	CULVERT END
711+66	6.51	6.51	13.28	2.01	2.01	3.98	1.11	CULVERT END
711+74	5.98	5.98	21.96	1.85	1.85	6.16	-3.20	CULVERT END
711+92	29.02	29.02	11.91	11.67	11.67	13.32	-4.86	
712+05	22.97	22.97	22.52	12.52	12.52	9.78	-2.12	CULVERT END
712+14	9.46	9.46	31.59	5.41	5.41	10.64	-7.36	CULVERT END
712+20	10.51	10.51	51.27	2.22	2.22	10.86	-16.01	CULVERT END
713+00	4.90	4.90	19.93	22.83	22.83	124.47	-117.65	
714+00	5.26	5.26	23.97	18.81	18.81	95.93	-194.76	
715+00	3.33	3.33	35.93	15.91	15.91	130.89	-309.75	
716+00	3.20	3.20	52.00	12.09	12.09	192.14	-489.80	
717+00	2.62	2.62	119.83	10.78	10.78	375.48	-854.50	EAT POST 1
717+25	2.47	2.47	129.25	2.36	2.36	136.07	-988.21	EAT POST 5
717+50	3.81	3.81	126.83	2.91	2.91	139.90	-1125.20	EAT POST 9
718+00	1.50	1.50	54.19	4.92	4.92	197.78	-1318.07	
718+29	1.31	1.31	74.02	7.49	1.51	346.73	-1657.30	CULVERT END
718+39	1.36	1.36	111.03	0.49	0.49	40.44	-1697.24	CULVERT END
719+00	0.65	0.65	83.86	2.27	2.27	259.78	-1954.76	
719+99	2.50	2.50	16.92	5.78	5.78	218.02	-2167.00	
720+01	1.52	1.52	98.38	0.15	0.15	5.04	-2171.89	
720+50	1.71	1.71	54.19	2.93	2.93	163.36	-2332.32	EAT POST 9
720+75	1.71	1.71	36.66	1.58	1.58	49.63	-2380.37	EAT POST 5
721+00	2.40	2.40	29.90	1.90	1.90	36.36	-2414.83	EAT POST 1
722+00	2.46	2.46	11.37	9.00	9.00	90.18	-2496.01	
			SUBTOTAL:	**184.03**	**178.05**	**2680.04**		
731+00	11.77	11.77	6.48	0.00	0.00	0.00	0.00	
732+00	4.25	4.25	56.84	29.67	29.67	138.37	-108.70	
732+69	3.56	3.56	111.44	9.98	9.98	253.73	-352.45	CULVERT END
733+00	4.48	4.48	93.69	4.62	4.62	138.96	-486.79	
734+00	3.29	3.29	94.24	14.39	14.39	410.66	-883.06	
735+00	0.97	0.97	133.35	7.89	7.89	497.33	-1372.50	
736+00	3.83	3.83	62.83	8.89	8.89	428.69	-1792.30	
736+01	1.29	1.29	53.21	0.09	0.09	2.54	-1794.74	
737+00	1.38	1.38	24.78	4.90	4.90	168.72	-1958.57	
738+00	2.25	2.25	9.75	6.72	6.72	75.45	-2027.30	
			SUBTOTAL:	**87.14**	**87.14**	**2114.44**		

PLOT DATE : June 14, 1911
PLOT BY : A.R.H.
PLOT NAME:
PLOT SCALE : 1:1

STATION	AREA (SF) CUT	AREA (SF) REUSEABLE CUT	AREA (SF) FILL	INCREMENTAL VOLUME (CY) CUT	INCREMENTAL VOLUME (CY) (1) REUSEABLE CUT	INCREMENTAL VOLUME (CY) (2) FILL	CUMULATIVE VOLUME (CY) MASS ORDINATE	NOTES
763+50	19.64	19.64	2.73	0.00	0.00	0.00	0.00	
764+00	3.16	3.16	2.96	21.11	21.11	6.22	14.89	
764+49	2.83	2.83	3.64	5.44	5.44	7.07	13.26	
764+50	7.32	7.32	4.30	0.19	0.19	0.17	13.28	
765+00	5.60	5.60	15.01	11.96	11.96	21.10	4.14	
765+92	4.40	4.40	53.30	17.04	17.04	137.33	-116.15	CULVERT END
766+02	4.51	4.51	18.18	1.65	1.65	15.62	-130.12	CULVERT END
767+00	3.46	3.46	61.05	14.46	14.46	169.67	-285.32	
768+00	3.36	3.36	19.67	12.63	12.63	176.39	-449.08	
			SUBTOTAL:	**84.48**	**84.48**	**533.56**		
770+89	--	--	--	--	--	--	--	CULVERT END
771+23	--	--	--	--	--	--	--	CULVERT END
784+00	7.63	7.63	3.37	0.00	0.00	0.00	0.00	
785+00	5.32	5.32	30.13	23.98	23.98	73.20	-49.22	
785+92	3.40	3.40	121.51	14.86	14.86	304.85	-339.22	CULVERT END
786+00	3.50	3.50	63.46	1.02	1.02	32.34	-370.53	
787+00	2.90	2.90	111.92	11.85	11.85	383.24	-741.92	
788+00	3.39	3.39	150.62	11.65	11.65	573.70	-1303.97	
789+00	3.94	3.94	141.09	13.57	13.57	637.44	-1927.83	
790+00	5.96	5.96	41.81	18.33	18.33	399.67	-2309.17	
791+00	7.35	7.35	3.45	24.65	24.65	98.90	-2383.42	
			SUBTOTAL:	**119.92**	**119.92**	**2503.34**		
794+07	--	--	--	--	--	--	--	CULVERT END
794+10	--	--	--	--	--	--	--	CULVERT END
798+07	4.25	4.25	9.60	0.00	0.00	0.00	0.00	
798+28	3.69	3.69	30.41	3.09	3.09	18.36	-15.27	
798+59	3.98	3.98	37.62	4.40	4.40	46.08	-56.95	
798+91	3.76	3.76	43.77	4.59	4.59	56.91	-109.28	CULVERT END
799+00	4.02	4.02	20.46	1.30	1.30	12.63	-120.61	
799+82	10.77	10.77	10.28	22.46	22.46	55.08	-153.24	
			SUBTOTAL:	**35.83**	**35.83**	**189.07**		
804+00	3.13	3.13	15.18	0.00	0.00	0.00	0.00	
804+10	2.90	2.90	45.98	1.12	1.12	13.36	-12.25	EAT POST 1
804+35	2.54	2.54	58.94	2.52	2.52	57.32	-67.05	EAT POST 5
804+59	2.56	2.56	77.70	2.27	2.27	71.66	-136.44	EAT POST 9
805+00	2.30	2.30	139.84	3.69	3.69	194.90	-327.65	
806+00	2.19	2.19	380.08	8.31	8.31	1136.12	-1455.46	
806+25	2.38	2.38	451.66	2.12	2.12	454.38	-1907.72	CULVERT END
806+69	3.03	3.03	242.91	4.41	4.41	667.82	-2571.13	CULVERT END
806+99	3.79	3.79	112.83	3.79	3.79	233.21	-2800.54	
807+00	0.77	0.77	104.04	0.08	0.08	4.74	-2805.20	
807+39	0.40	0.40	32.98	0.85	0.85	116.77	-2921.12	
807+50	0.00	0.00	46.88	0.08	0.08	19.20	-2940.24	EAT POST 9
807+75	0.00	0.00	38.57	0.00	0.00	46.68	-2986.92	EAT POST 5
808+00	0.00	0.00	37.41	0.00	0.00	41.51	-3028.43	EAT POST 1
808+10	0.00	0.00	28.86	0.00	0.00	14.48	-3042.91	
			SUBTOTAL:	**29.23**	**29.23**	**3072.14**		

PROJECT NO:1610-08-74,1610-08-76,1610-11-73

HWY: STH 13

COUNTY: ASHLAND

EARTHWORK DATA SHEETS (1610-08-76)

SHEET:

PLOT DATE : June 14, 1911

PLOT BY : A.R.H.

PLOT NAME :

PLOT SCALE : 1:1

259

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STATION	AREA (SF) CUT	AREA (SF) REUSEABLE CUT	AREA (SF) FILL	INCREMENTAL VOLUME (CY) CUT	INCREMENTAL VOLUME (CY) (1) REUSEABLE CUT	INCREMENTAL VOLUME (CY) (2) FILL	CUMULATIVE VOLUME (CY) MASS ORDINATE	NOTES
811+83	0.00	0.00	4.78	0.00	0.00	0.00	0.00	
812+00	0.00	0.00	11.24	0.00	0.00	5.95	-5.95	
813+00	0.00	0.00	32.91	0.00	0.00	96.48	-102.43	EAT POST 1
813+25	0.00	0.00	17.52	0.00	0.00	27.55	-129.98	EAT POST 5
813+50	1.67	1.67	0.00	0.77	0.77	9.57	-138.77	EAT POST 9
813+55	1.73	1.73	0.00	0.31	0.31	0.00	-138.46	
814+00	0.81	0.81	3.85	2.12	2.12	3.79	-140.13	
814+75	0.33	0.33	47.12	1.58	1.58	83.53	-222.08	
815+00	0.36	0.36	59.89	0.32	0.32	58.46	-280.22	
815+03	0.37	0.37	61.79	0.04	0.04	7.98	-288.16	
816+00	0.13	0.13	79.54	0.90	0.90	299.57	-586.83	
817+00	0.06	0.06	100.37	0.35	0.35	393.14	-979.61	
818+00	0.07	0.07	119.07	0.24	0.24	479.52	-1458.89	
819+00	0.02	0.02	128.11	0.17	0.17	540.13	-1998.85	
820+00	0.05	0.05	183.98	0.13	0.13	681.97	-2680.70	
821+00	0.03	0.03	118.79	0.15	0.15	661.61	-3342.16	
822+00	0.41	0.41	78.76	0.81	0.81	431.68	-3773.03	
823+00	0.26	0.26	73.72	1.24	1.24	333.20	-4104.98	
823+74	0.34	0.34	71.96	0.82	0.82	235.57	-4339.73	CULVERT END
824+00	0.48	0.48	58.71	0.39	0.39	74.24	-4413.58	
825+00	1.01	1.01	0.00	2.76	2.76	128.29	-4539.11	
825+50	1.06	1.06	5.45	1.92	1.92	5.95	-4543.15	EAT POST 9
825+74	0.00	0.00	46.78	0.47	0.47	27.39	-4570.07	EAT POST 5
826+00	0.00	0.00	79.31	0.00	0.00	71.64	-4641.71	EAT POST 1
826+30	0.00	0.00	2.06	0.00	0.00	53.34	-4695.05	
			SUBTOTAL:	**15.50**	**15.50**	**4710.55**		
830+50	5.73	5.73	3.37	0.00	0.00	0.00	0.00	
831+00	4.89	4.89	28.45	9.83	9.83	34.77	-24.93	
831+88	5.23	5.23	75.01	16.49	16.49	198.95	-207.39	CULVERT END
832+00	5.18	5.18	54.51	2.31	2.31	33.96	-239.04	
833+00	6.21	6.21	5.09	21.09	21.09	130.24	-348.18	
834+00	3.72	3.72	23.65	18.39	18.39	62.80	-392.60	
835+00	5.74	5.74	47.55	17.52	17.52	155.59	-530.66	
835+46	4.56	4.56	82.83	8.77	8.77	131.06	-652.95	CULVERT END
836+00	6.16	6.16	39.08	10.72	10.72	143.85	-786.08	
837+00	6.73	6.73	9.80	23.87	23.87	106.81	-869.02	
			SUBTOTAL:	**129.00**	**129.00**	**998.03**		
845+20	7.36	7.36	14.21	0.00	0.00	0.00	0.00	
845+88	3.97	3.97	123.96	14.27	14.27	205.31	-191.04	CULVERT END
845+95	3.96	3.96	155.88	1.03	1.03	42.81	-232.82	CULVERT END
846+00	4.07	4.07	147.48	0.74	0.74	33.14	-265.22	
847+00	5.51	5.51	77.01	17.74	17.74	490.55	-738.03	
848+00	4.43	4.43	54.03	18.41	18.41	286.35	-1005.97	
849+00	6.02	6.02	22.82	19.35	19.35	167.93	-1154.55	
850+00	6.00	6.00	33.19	22.26	22.26	122.39	-1254.68	
851+00	4.88	4.88	72.47	20.15	20.15	230.89	-1465.42	
852+00	5.65	5.65	43.68	19.50	19.50	253.81	-1699.73	
853+00	9.46	9.46	14.84	27.98	27.98	127.88	-1799.63	
			SUBTOTAL:	**161.43**	**161.43**	**1961.06**		
859+50	2.29	2.29	30.78	0.00	0.00	0.00	0.00	
860+00	2.13	2.13	23.61	4.09	4.09	59.43	-55.33	
861+00	2.52	2.52	104.62	8.61	8.61	280.21	-326.93	
861+17	2.56	2.56	99.95	1.60	1.60	75.99	-401.32	CULVERT END
862+00	2.35	2.35	219.98	7.55	7.55	580.26	-974.03	
862+31	2.54	2.54	193.51	2.81	2.81	280.10	-1251.33	CULVERT END
863+00	2.72	2.72	73.76	6.72	6.72	402.98	-1647.59	
864+00	1.63	1.63	128.11	8.06	8.06	441.12	-2080.66	
865+00	0.95	0.95	172.39	4.78	4.78	656.65	-2732.53	
866+01	1.13	1.13	210.76	3.89	3.89	845.63	-3574.27	CULVERT END
867+00	1.56	1.56	34.94	4.93	4.93	531.53	-4100.86	
868+00	5.21	5.21	0.06	12.54	12.54	76.48	-4164.81	
869+00	2.36	2.36	3.86	14.02	14.02	8.57	-4159.36	
870+00	2.27	2.27	55.38	8.57	8.57	129.45	-4280.23	
870+48	1.88	1.88	74.04	3.69	3.69	135.75	-4412.29	CULVERT END
871+00	1.97	1.97	10.44	3.71	3.71	95.99	-4504.58	
872+00	2.35	2.35	0.19	8.00	8.00	23.23	-4519.81	
			SUBTOTAL:	**103.56**	**103.56**	**4623.37**		

PROJECT NO:1610-08-74,1610-08-76,1610-11-73

HWY: STH 13

COUNTY: ASHLAND

EARTHWORK DATA SHEETS (1610-08-76)

SHEET:

PLOT DATE : June 14, 1911

PLOT BY : A.R.H.

PLOT NAME:

PLOT SCALE : 1:1

STATION	AREA (SF) CUT	AREA (SF) REUSEABLE CUT	AREA (SF) FILL	INCREMENTAL VOLUME (CY) CUT	INCREMENTAL VOLUME (CY) (1) REUSEABLE CUT	INCREMENTAL VOLUME (CY) (2) FILL	CUMULATIVE VOLUME (CY) MASS ORDINATE	NOTES
884+00	1.82	1.82	0.85	0.00	0.00	0.00	0.00	
885+00	1.39	1.39	36.72	5.94	5.94	82.10	-76.15	
885+69	2.84	2.84	103.25	5.41	5.41	211.04	-281.79	CULVERT END
886+00	5.85	5.85	84.81	4.99	4.99	127.39	-404.20	
886+48	3.96	3.96	134.75	8.72	8.72	230.29	-625.77	CULVERT END
887+00	3.47	3.47	108.38	7.15	7.15	276.27	-894.88	
888+00	2.96	2.96	39.01	11.91	11.91	322.07	-1205.05	
888+10	3.22	3.22	35.54	1.14	1.14	16.29	-1220.20	
888+11	0.64	0.64	15.43	0.07	0.07	1.11	-1221.24	
889+00	0.62	0.62	12.19	2.08	2.08	53.72	-1272.88	
890+00	1.55	1.55	2.35	4.02	4.02	31.77	-1300.63	
			SUBTOTAL:	**51.43**	**51.43**	**1352.06**		
895+50	12.59	12.59	2.56	0.00	0.00	0.00	0.00	
896+00	4.87	4.87	47.52	16.17	16.17	54.72	-38.55	
897+00	4.02	4.02	113.85	16.46	16.46	352.62	-374.71	
898+00	4.96	4.96	89.78	16.63	16.63	444.97	-803.05	
899+00	5.30	5.30	139.27	19.00	19.00	500.52	-1284.57	
899+81	4.87	4.87	331.69	15.26	15.26	833.60	-2102.91	
900+00	5.24	5.24	246.54	3.56	3.56	240.07	-2339.43	
900+31	6.31	6.31	274.36	6.63	6.63	352.86	-2685.66	
901+00	5.20	5.20	131.84	14.71	14.71	612.46	-3283.41	
902+00	6.18	6.18	11.71	21.07	21.07	313.68	-3576.02	
			SUBTOTAL:	**129.48**	**129.48**	**3705.50**		
917+50	8.10	8.10	7.81	0.00	0.00	0.00	0.00	
918+00	5.48	5.48	30.00	12.57	12.57	41.31	-28.74	
918+52	6.72	6.72	39.52	11.75	11.75	79.00	-95.98	
919+00	4.35	4.35	68.32	9.84	9.84	113.11	-199.26	
919+03	4.25	4.25	68.24	0.48	0.48	8.95	-207.73	
919+54	5.19	5.19	41.56	8.92	8.92	122.37	-321.18	
920+00	5.74	5.74	25.03	9.31	9.31	66.94	-378.81	
920+49	6.22	6.22	26.18	10.85	10.85	54.83	-422.79	
921+00	4.15	4.15	57.57	9.79	9.79	93.33	-506.33	
921+38	3.87	3.87	112.14	5.64	5.64	140.92	-641.61	
922+00	1.79	1.79	61.17	6.50	6.50	234.80	-869.91	
923+00	1.86	1.86	60.79	6.76	6.76	266.51	-1129.66	
924+00	1.75	1.75	46.47	6.69	6.69	234.38	-1357.35	
924+22	1.79	1.79	24.90	1.44	1.44	34.31	-1390.22	
			SUBTOTAL:	**100.54**	**100.54**	**1490.76**		
			GRAND TOTAL:	**1492.54**	**1486.55**	**33276.33**		

-- (1): REUSEABLE CUT MATERIAL AVAILABLE FOR USE IN CONSTRUCTION OUTSIDE ROADWAY 1:1

-- (2): FILL QUANTITIES ARE EXPANDED (SELECT BORROW=1.18)

PROJECT NO:1610-08-74,1610-08-76,1610-11-73

HWY: STH 13

COUNTY: ASHLAND

EARTHWORK DATA SHEETS (1610-08-76)

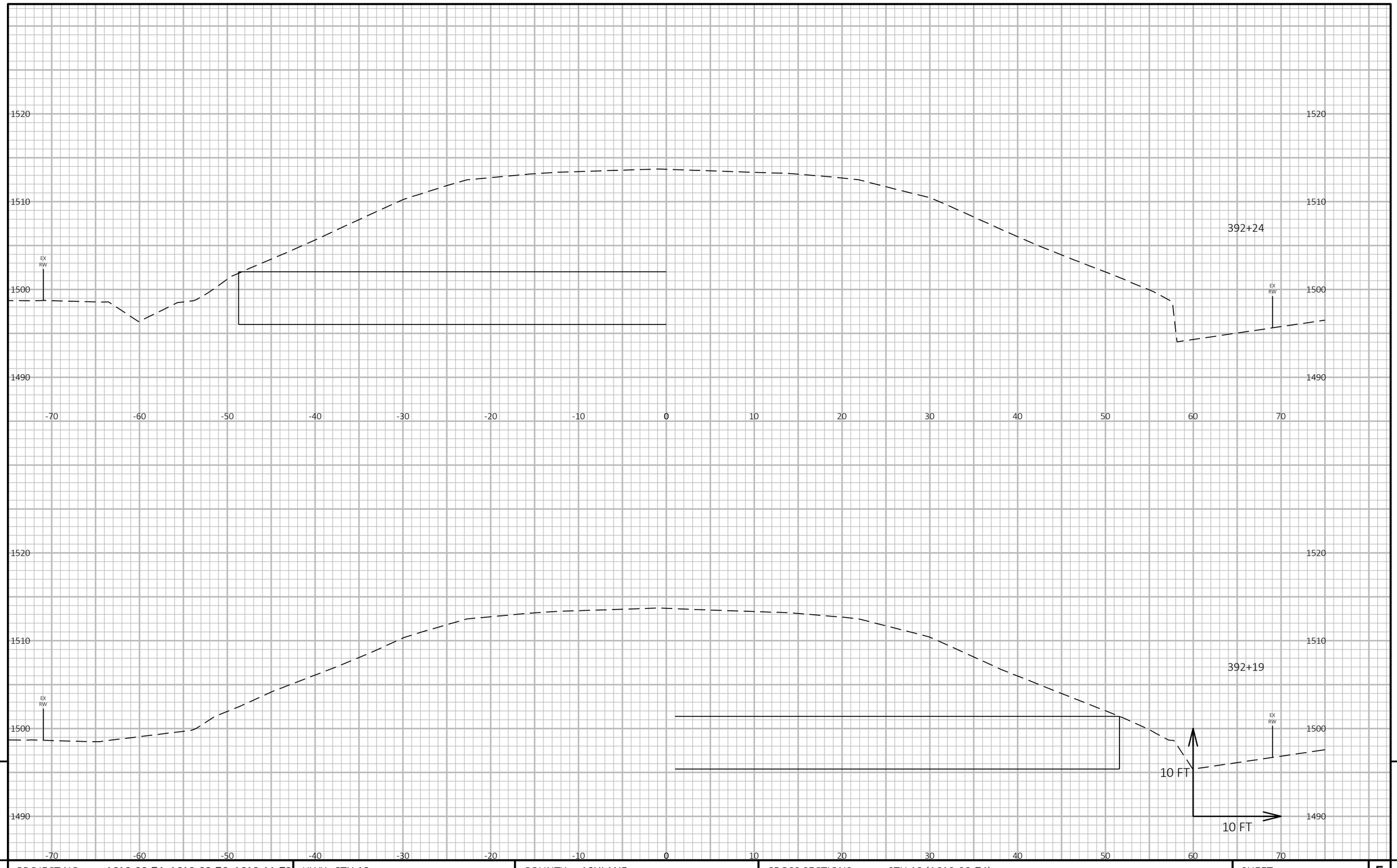
SHEET:

PLOT DATE : June 14, 1911

PLOT BY : A.R.H.

PLOT NAME :

PLOT SCALE : 1:1



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 262	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(1)

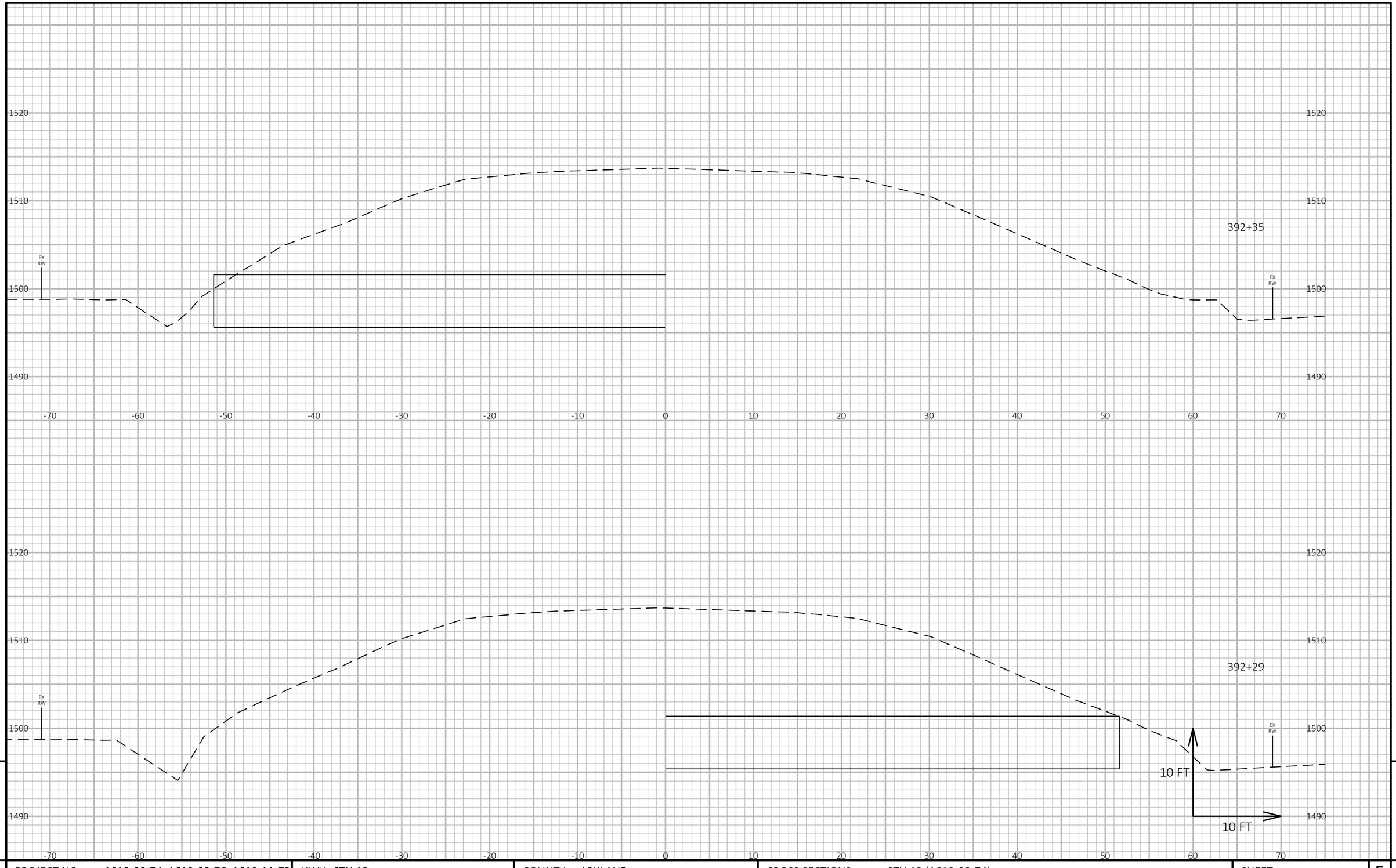
PLOT DATE : 9/25/2018 12:01 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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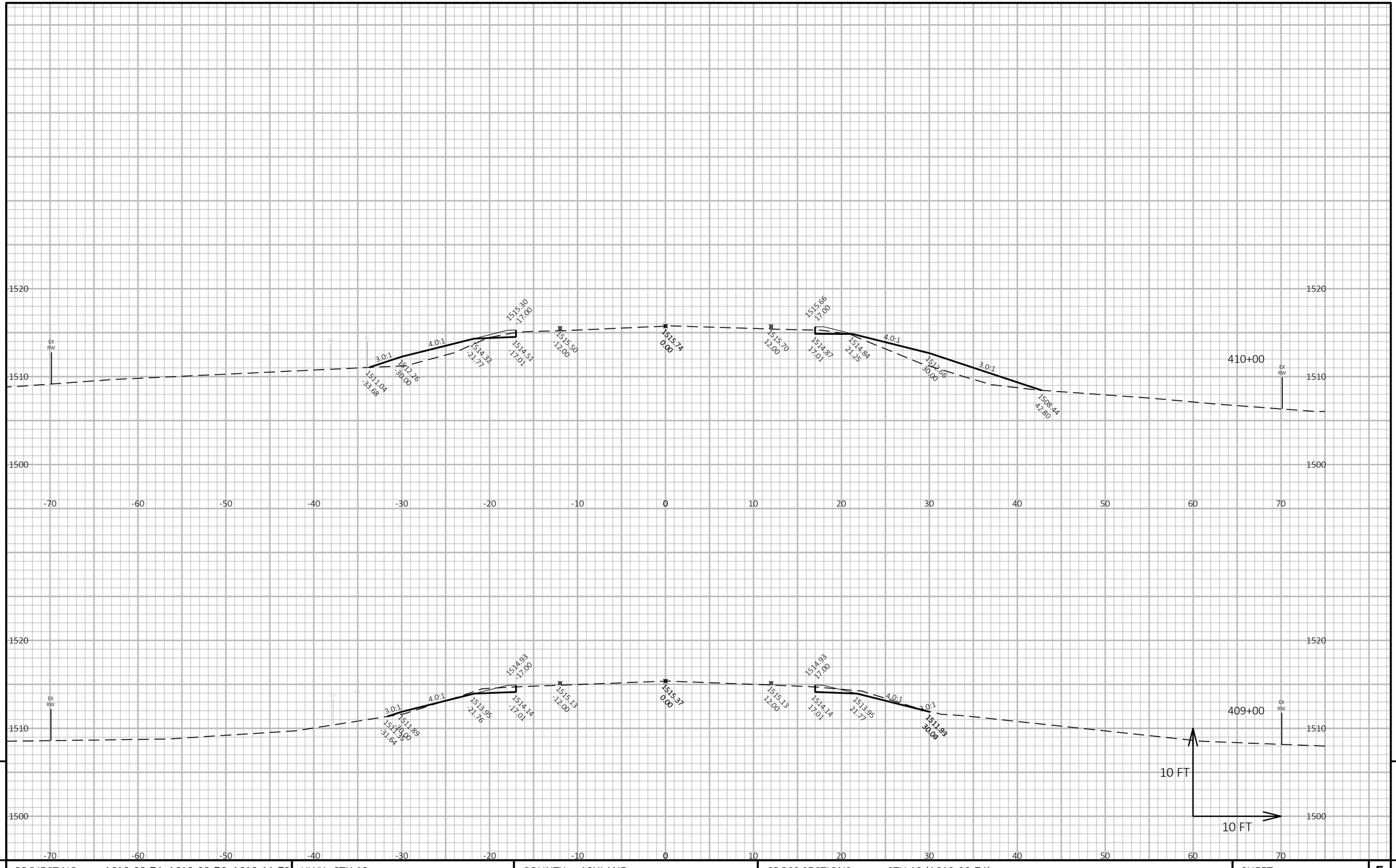
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 263	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(2)

PLOT DATE : 9/25/2018 12:01 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

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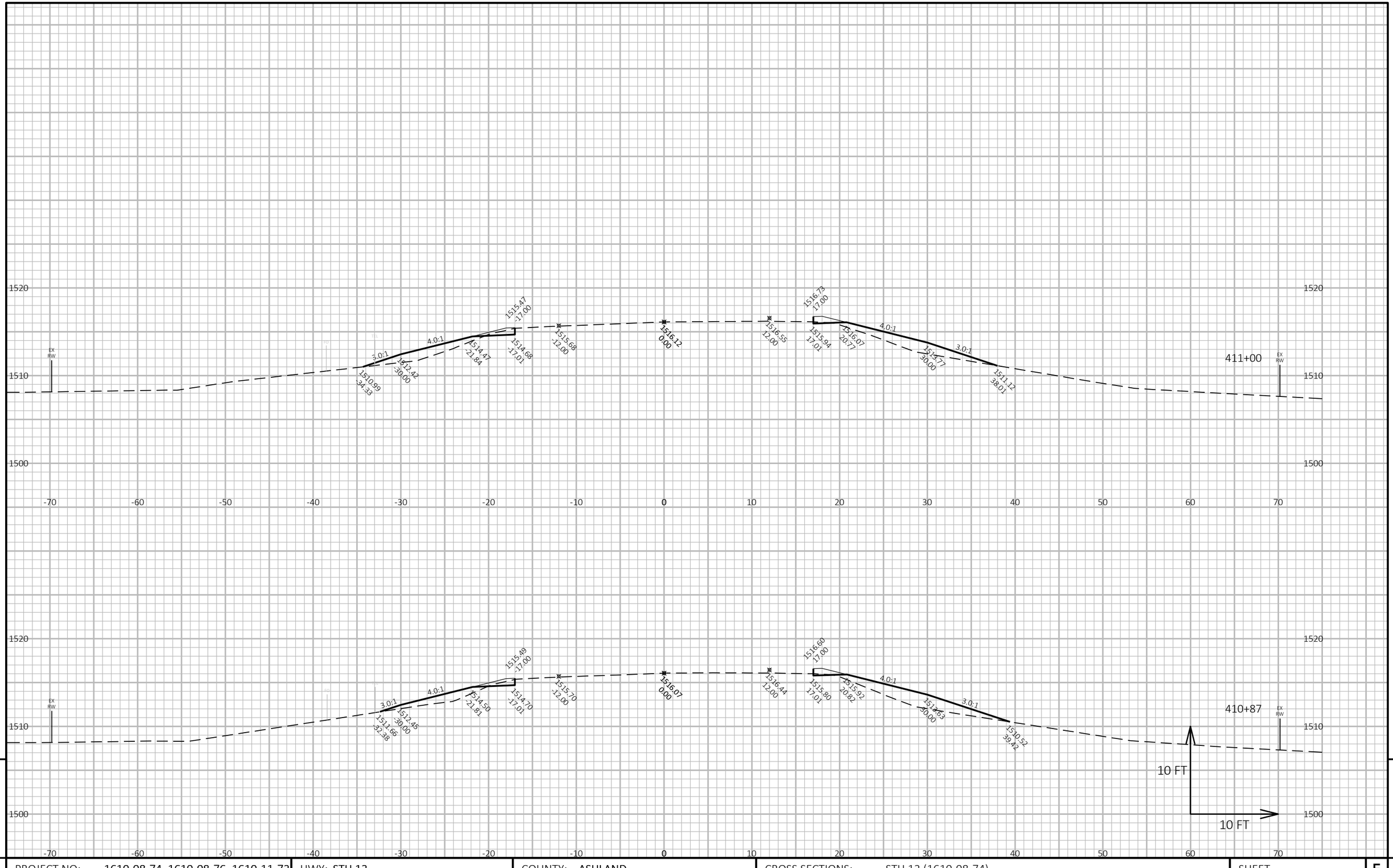
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 264	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(3)

PLOT DATE : 9/25/2018 12:02 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 265	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(4)

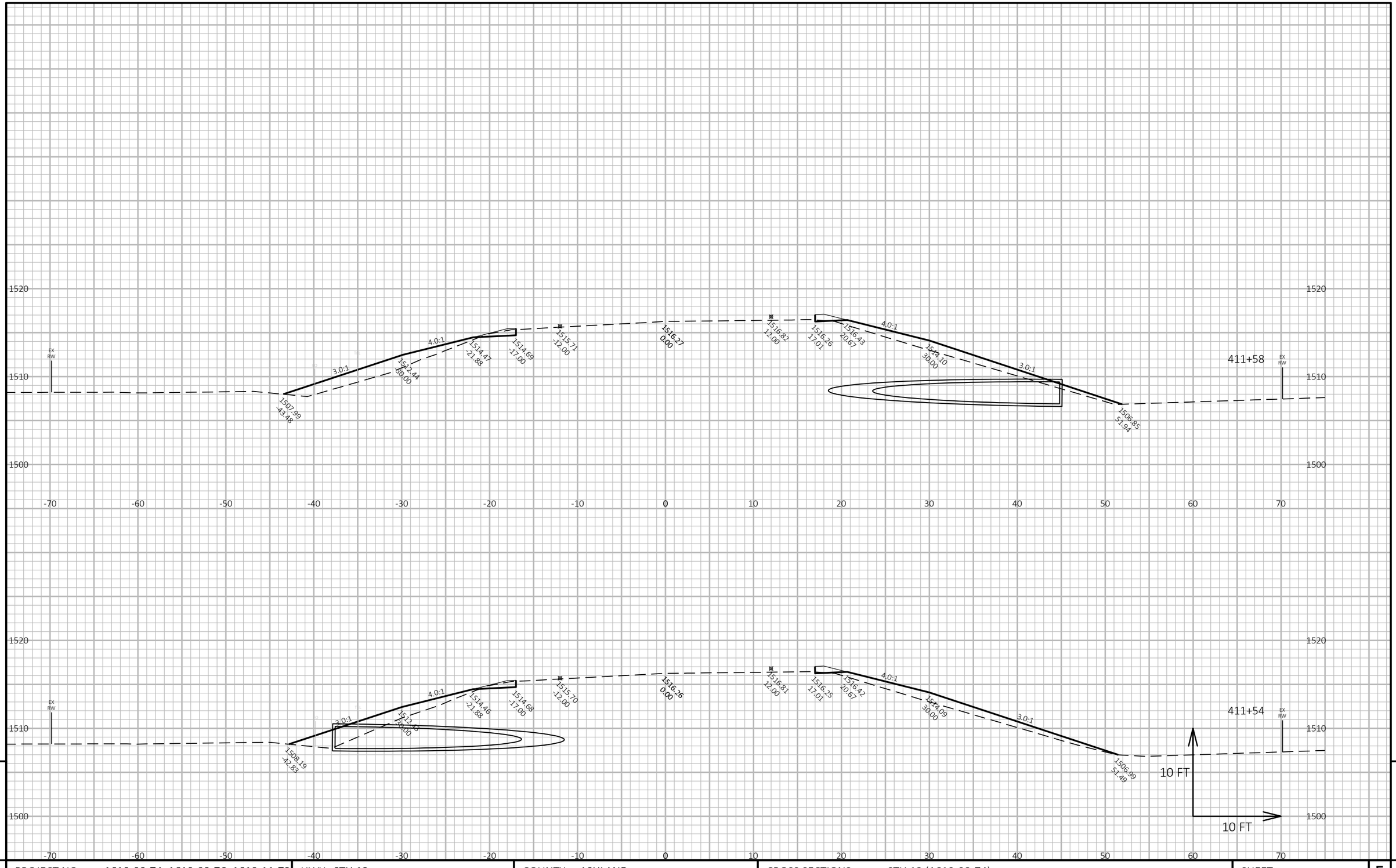
PLOT DATE : 9/25/2018 12:02 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 266	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(5)

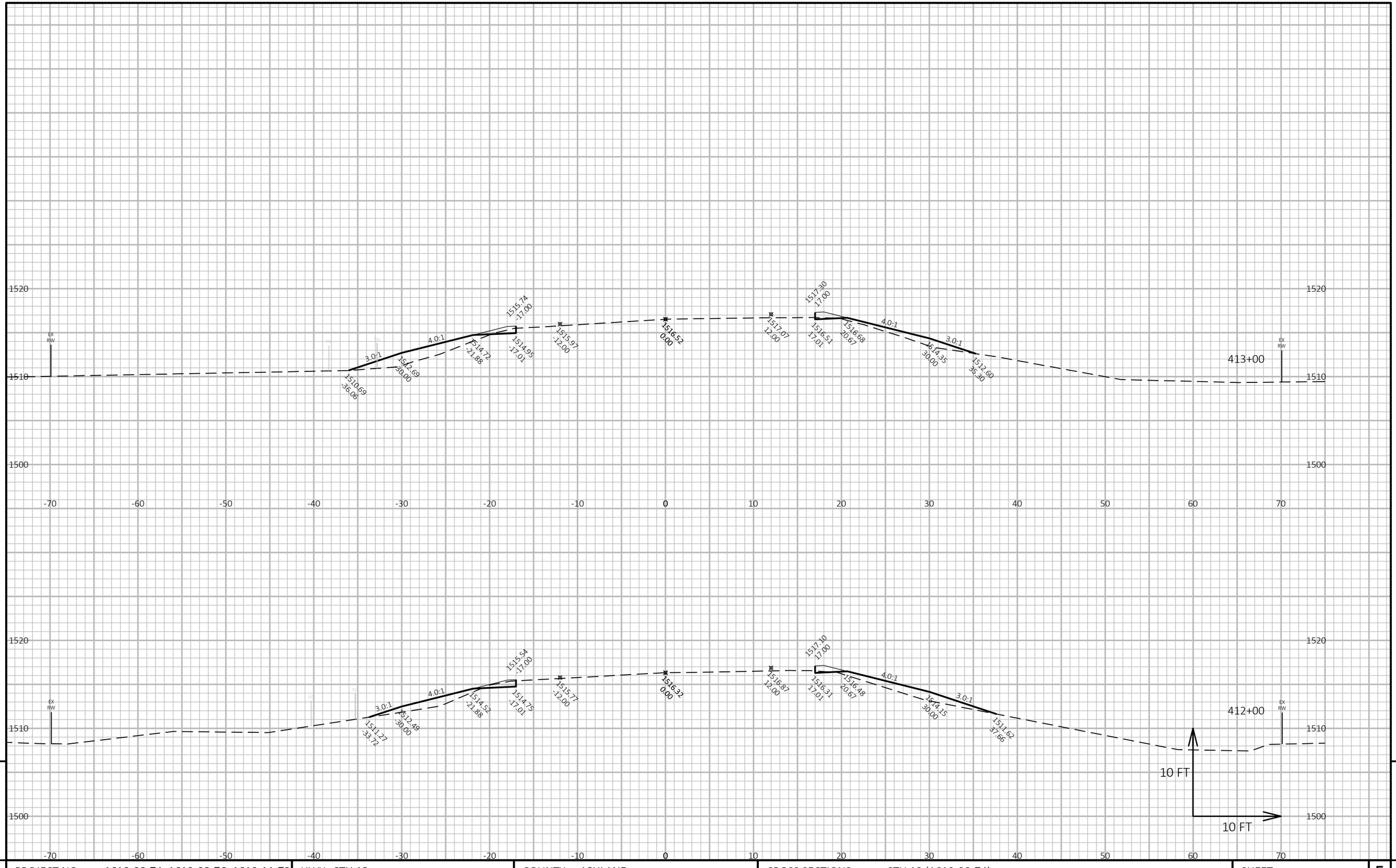
PLOT DATE : 9/25/2018 12:03 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



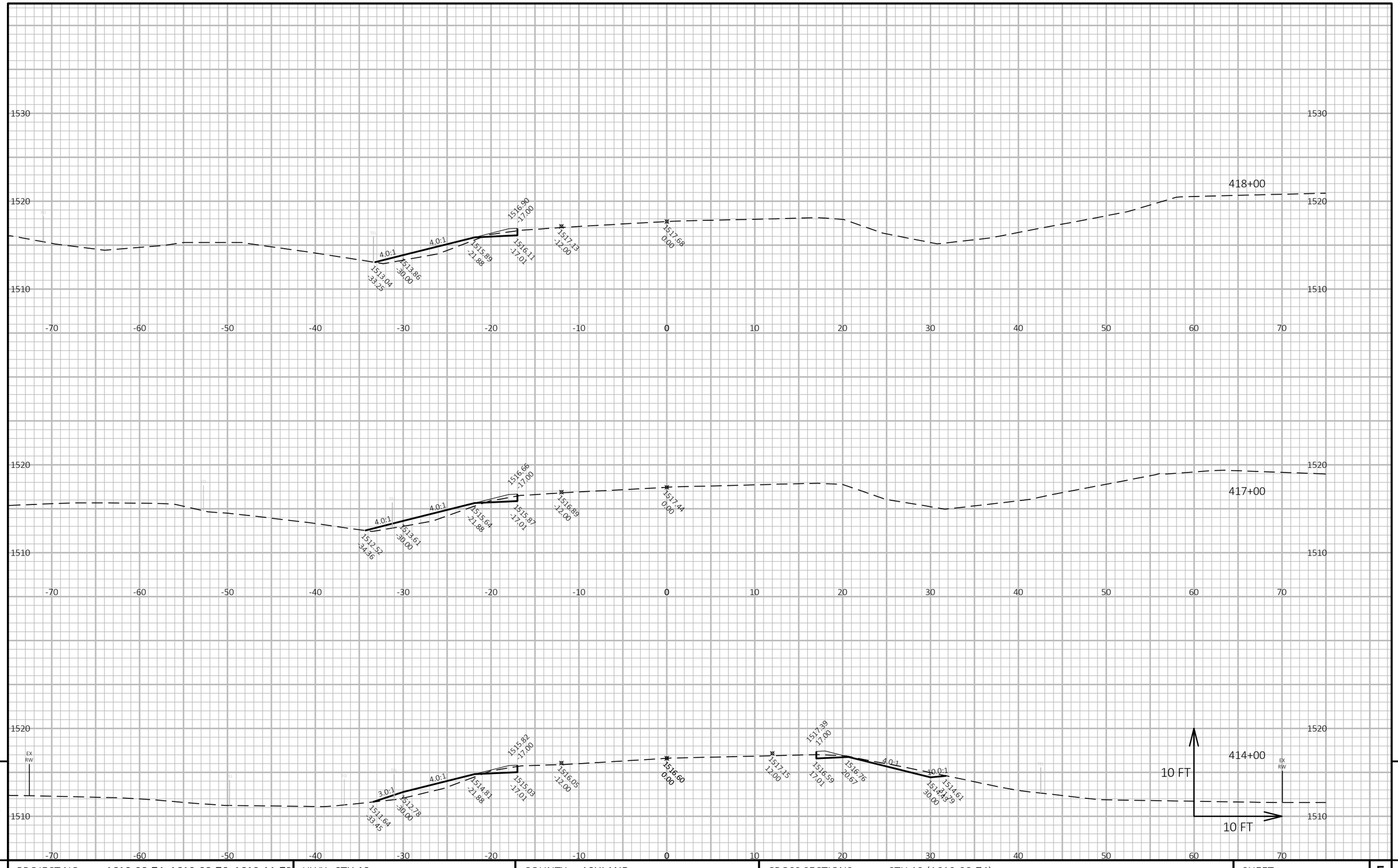
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 267	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(6)

PLOT DATE : 9/25/2018 12:03 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



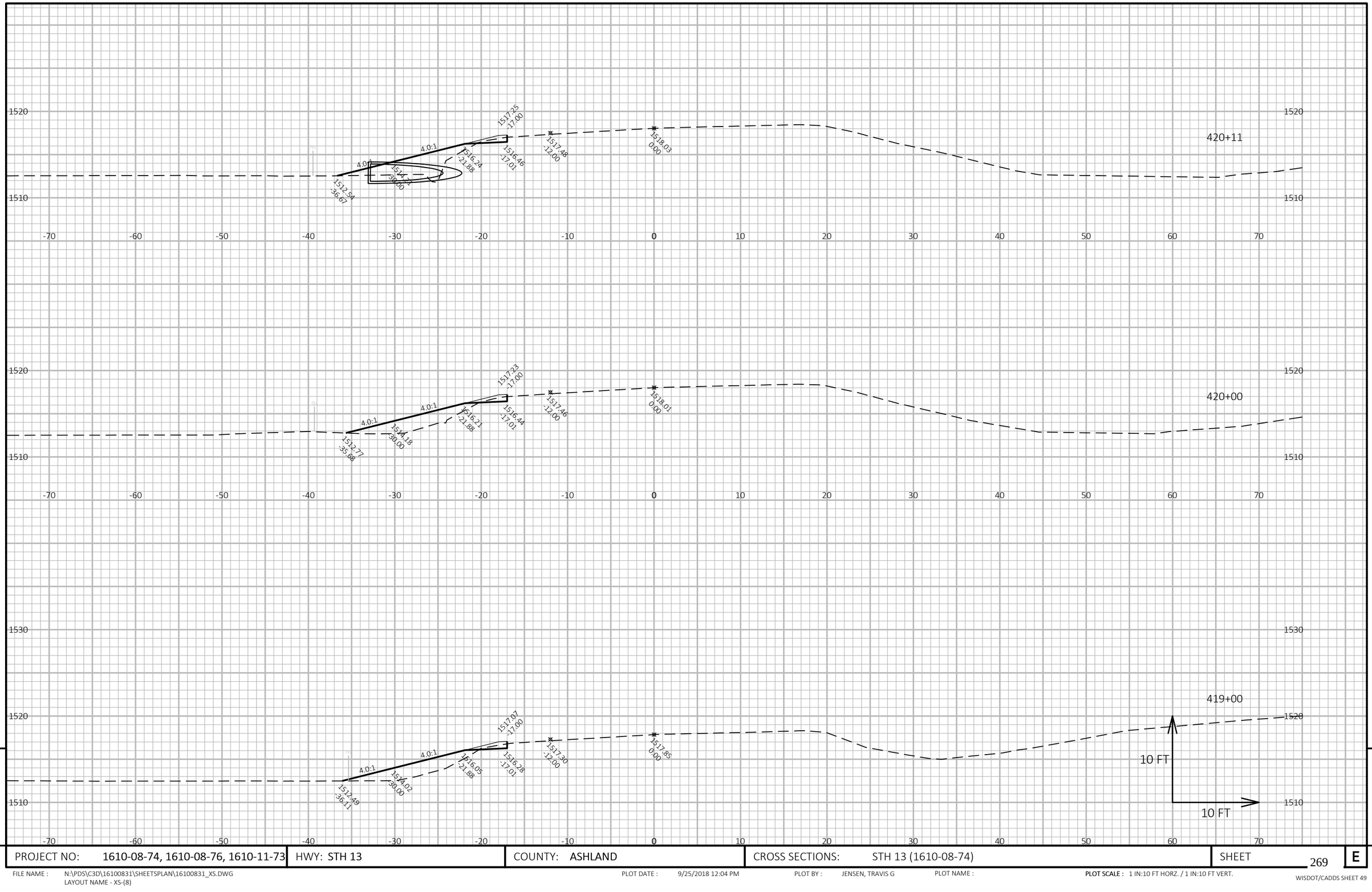
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 268	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(7)

PLOT DATE : 9/25/2018 12:04 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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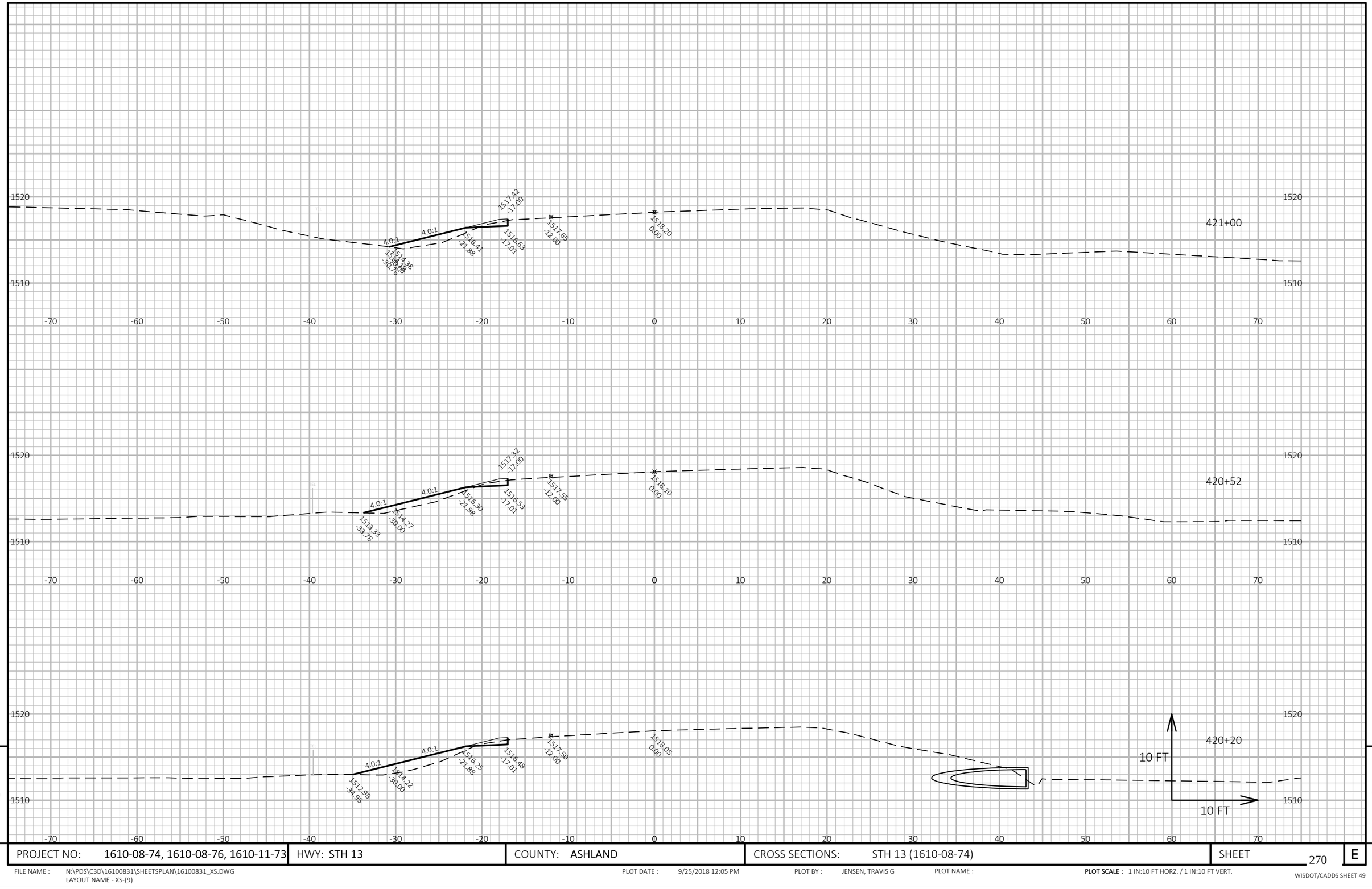
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 269	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(8)

PLOT DATE : 9/25/2018 12:04 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

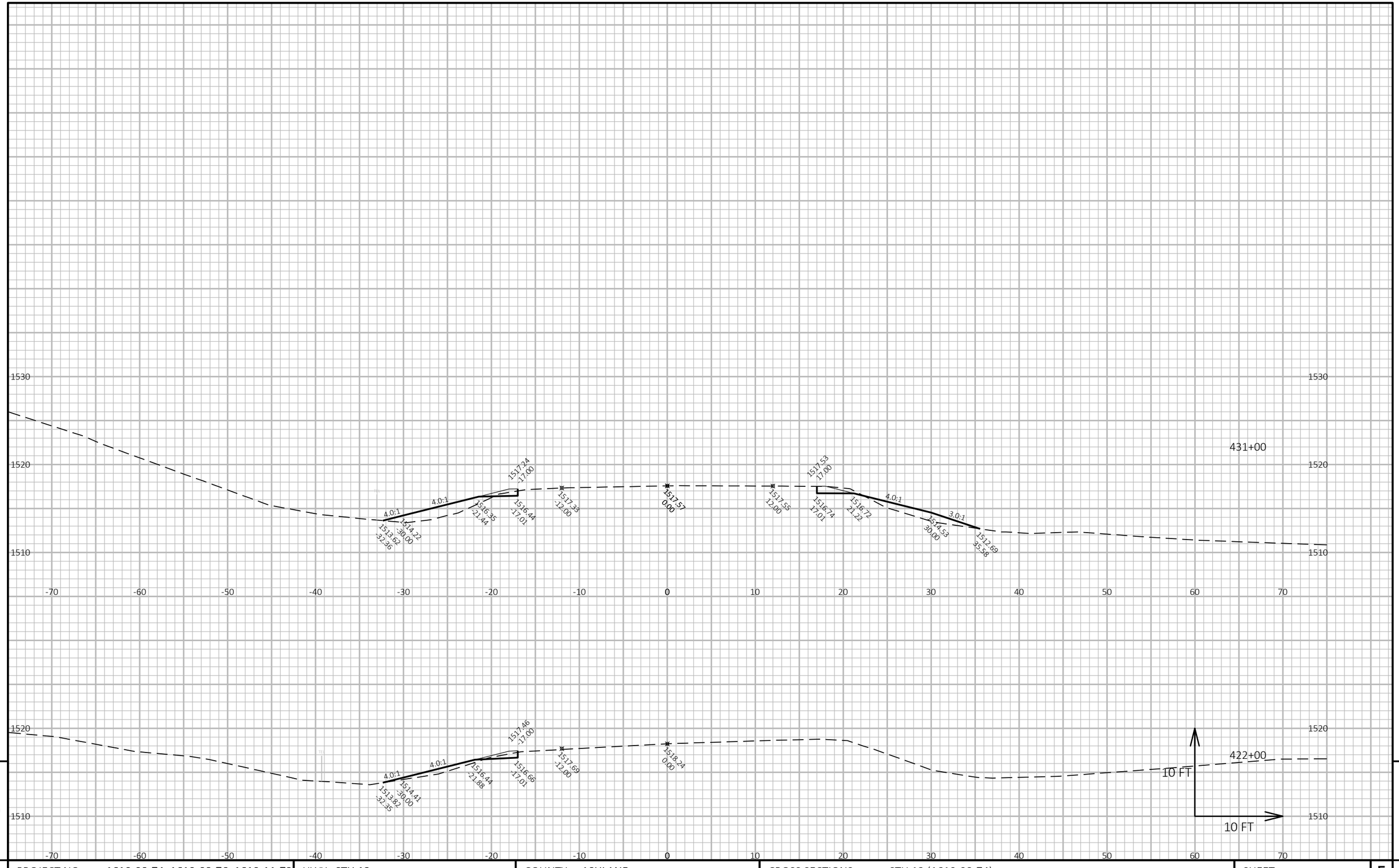
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 270	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(9)

PLOT DATE : 9/25/2018 12:05 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

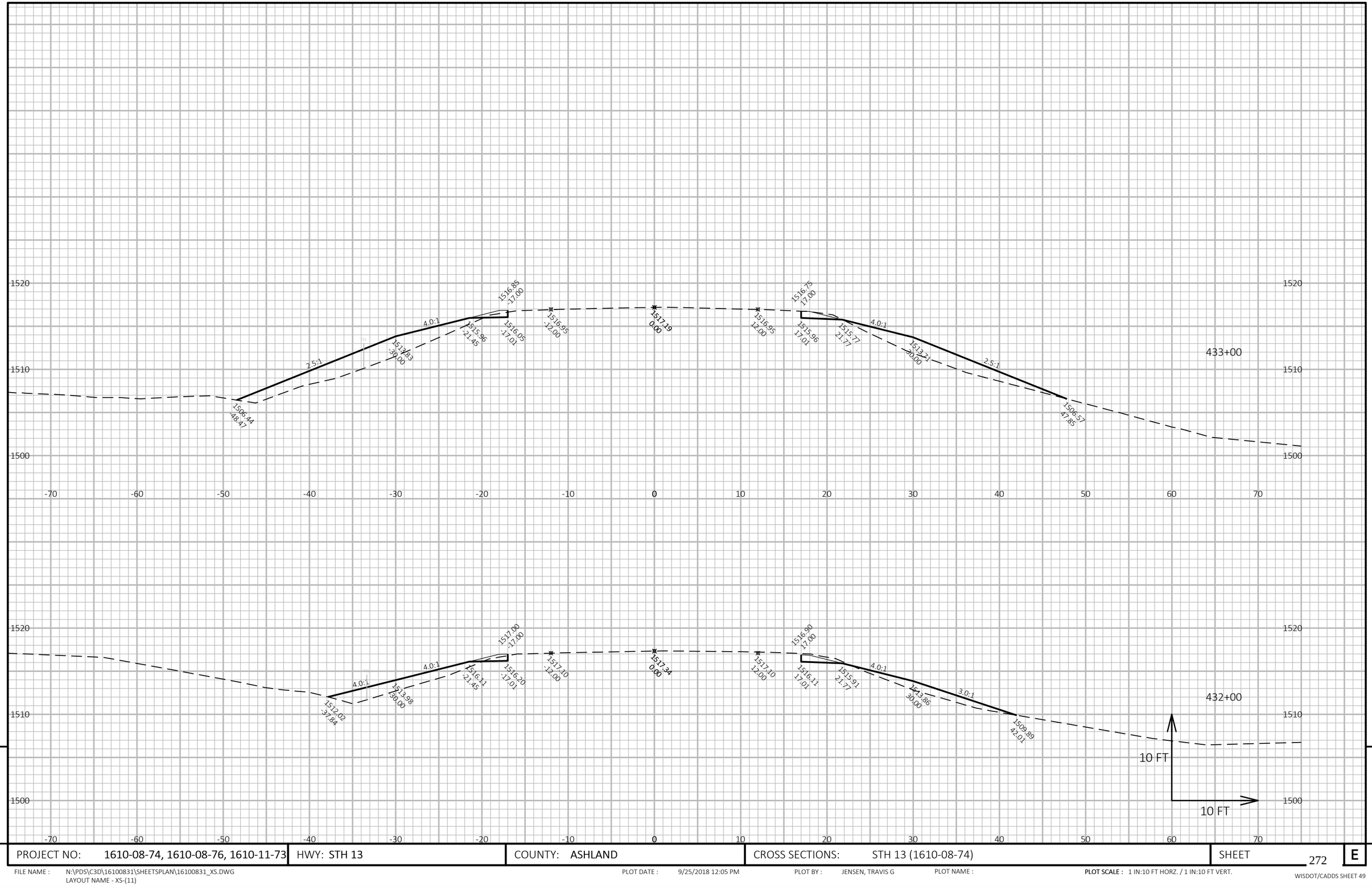
WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 271	E

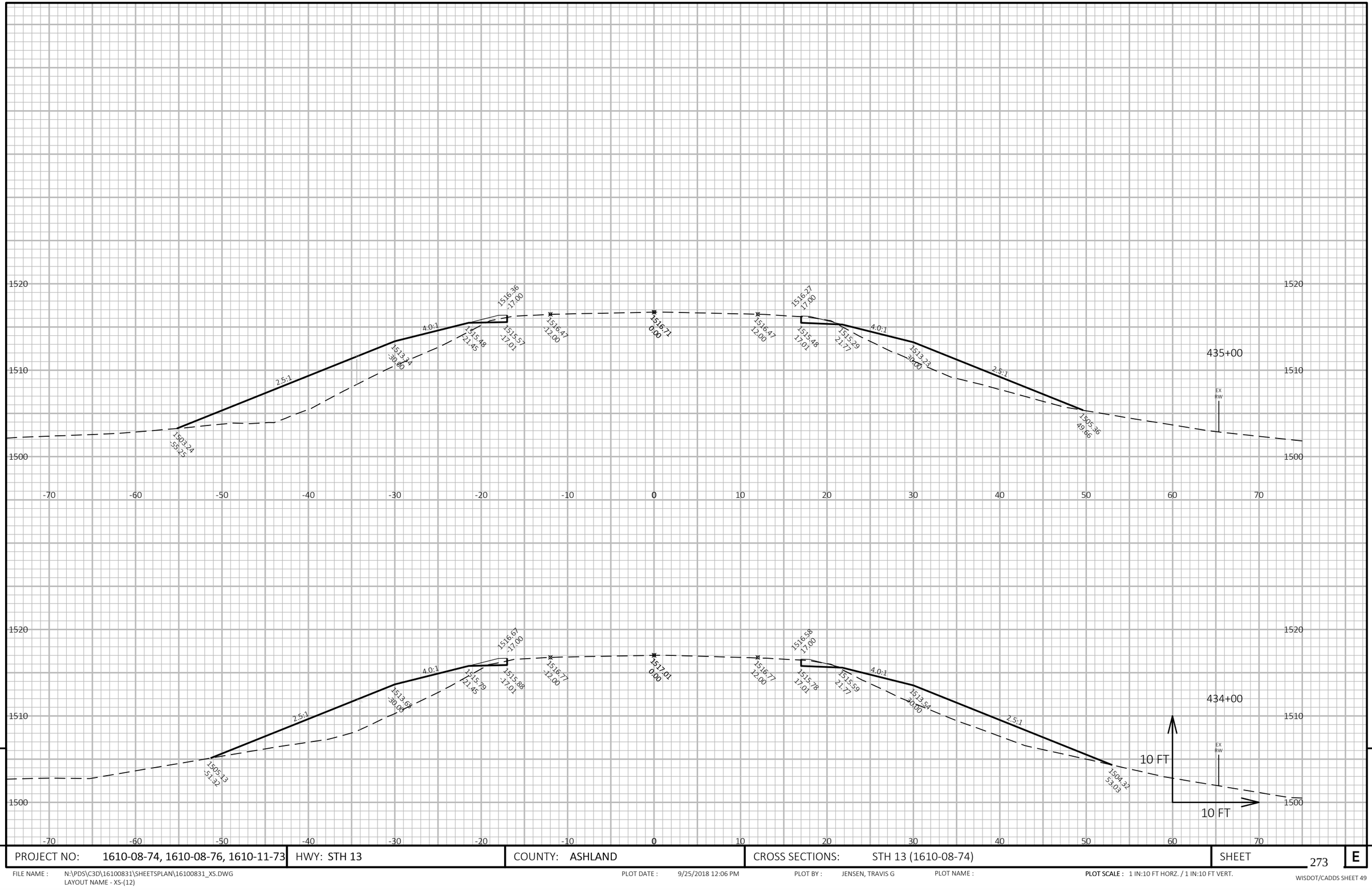


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 272	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(11)

PLOT DATE : 9/25/2018 12:05 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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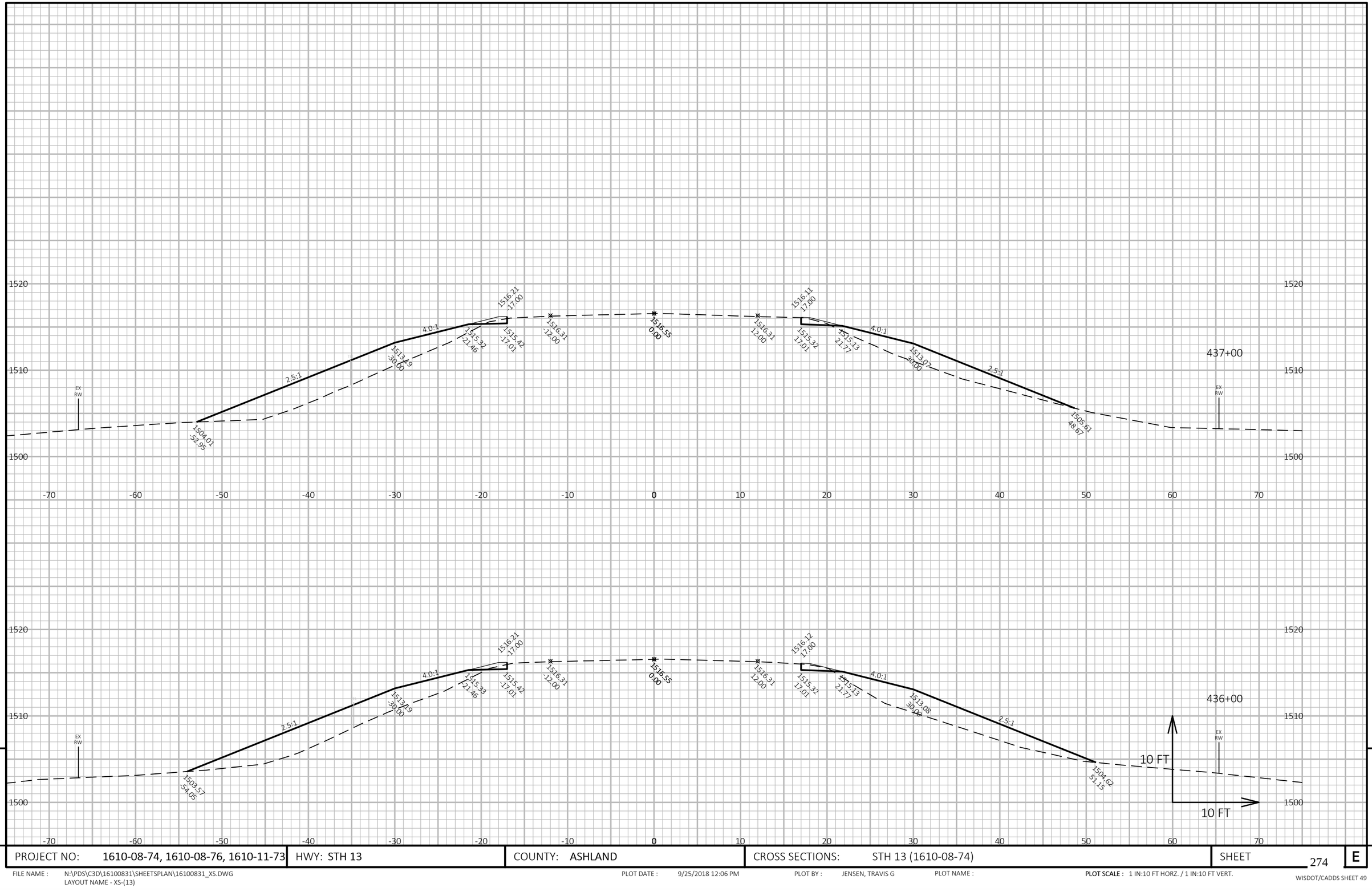
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 273	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(12)

PLOT DATE : 9/25/2018 12:06 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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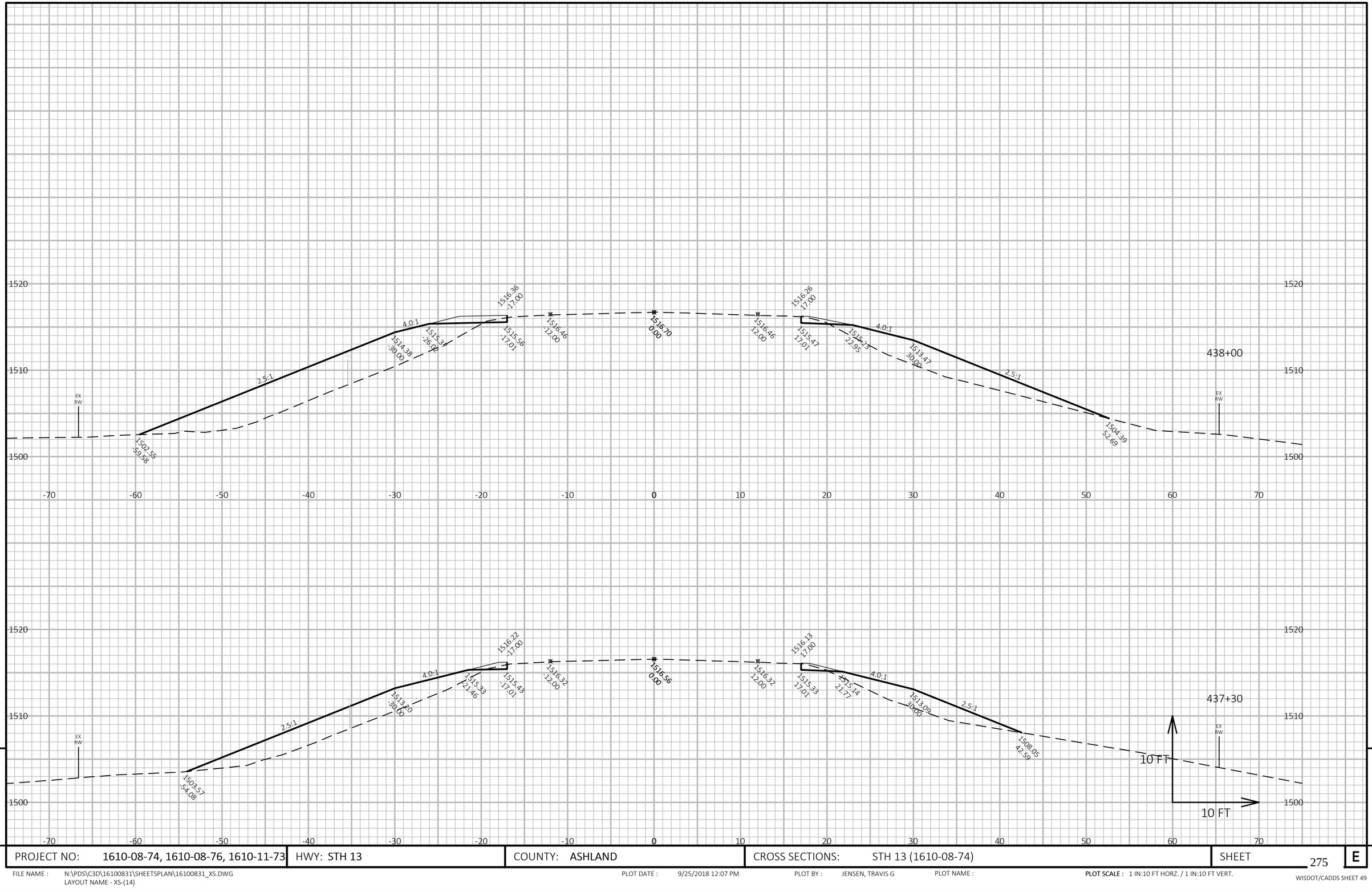
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 274	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(13)

PLOT DATE : 9/25/2018 12:06 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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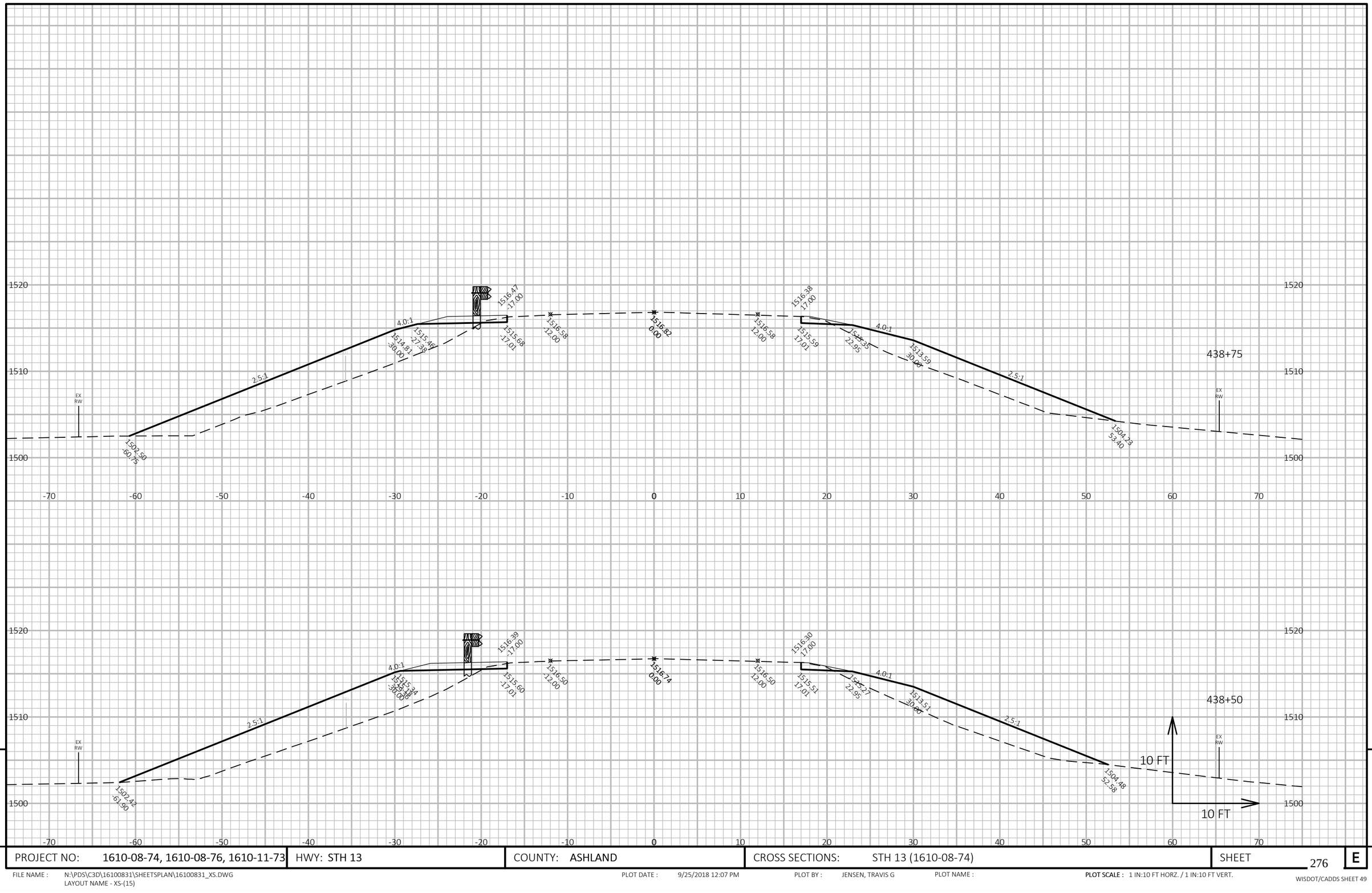
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 275	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(14)

PLOT DATE : 9/25/2018 12:07 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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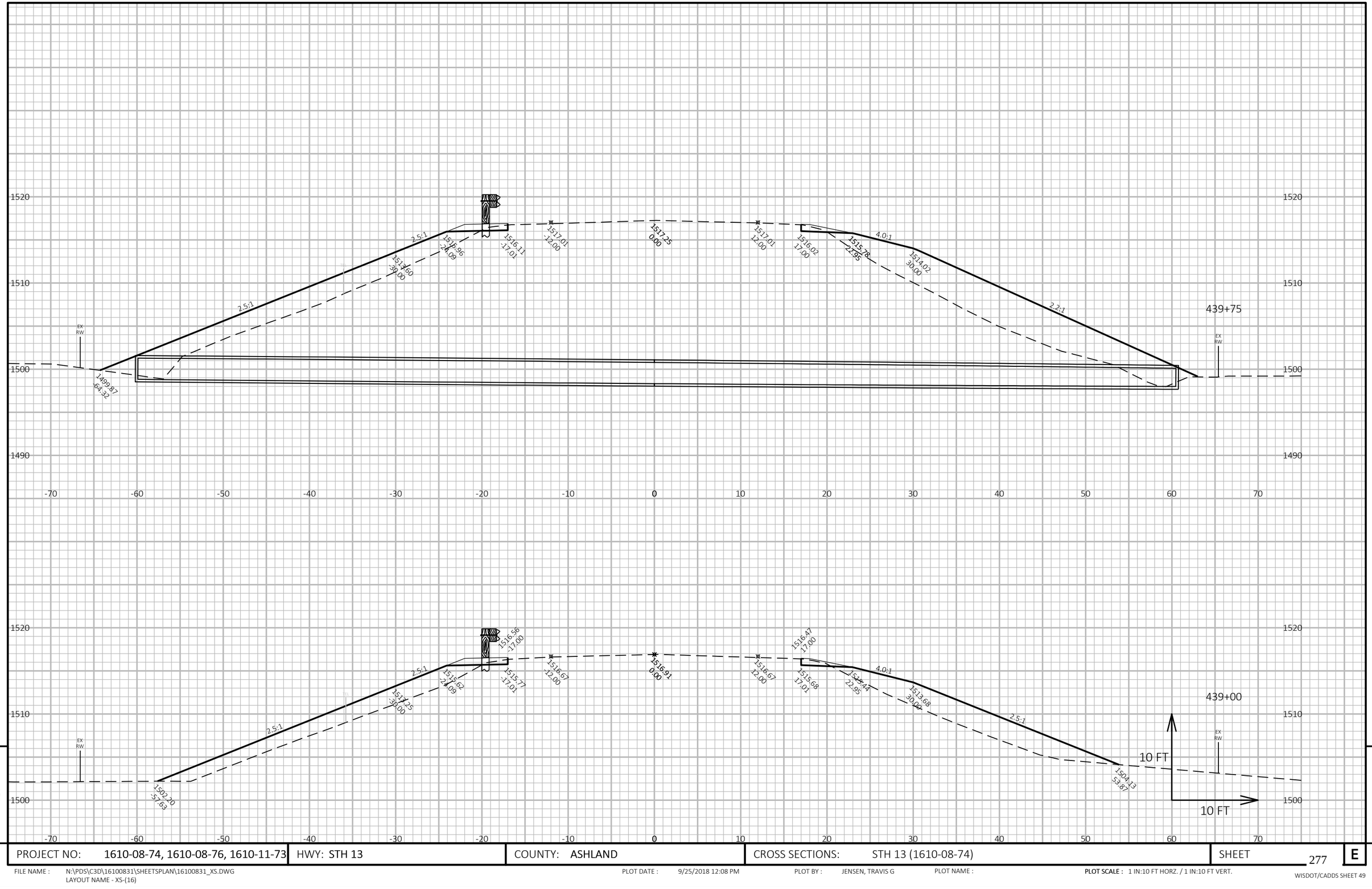
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 276	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(15)

PLOT DATE : 9/25/2018 12:07 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



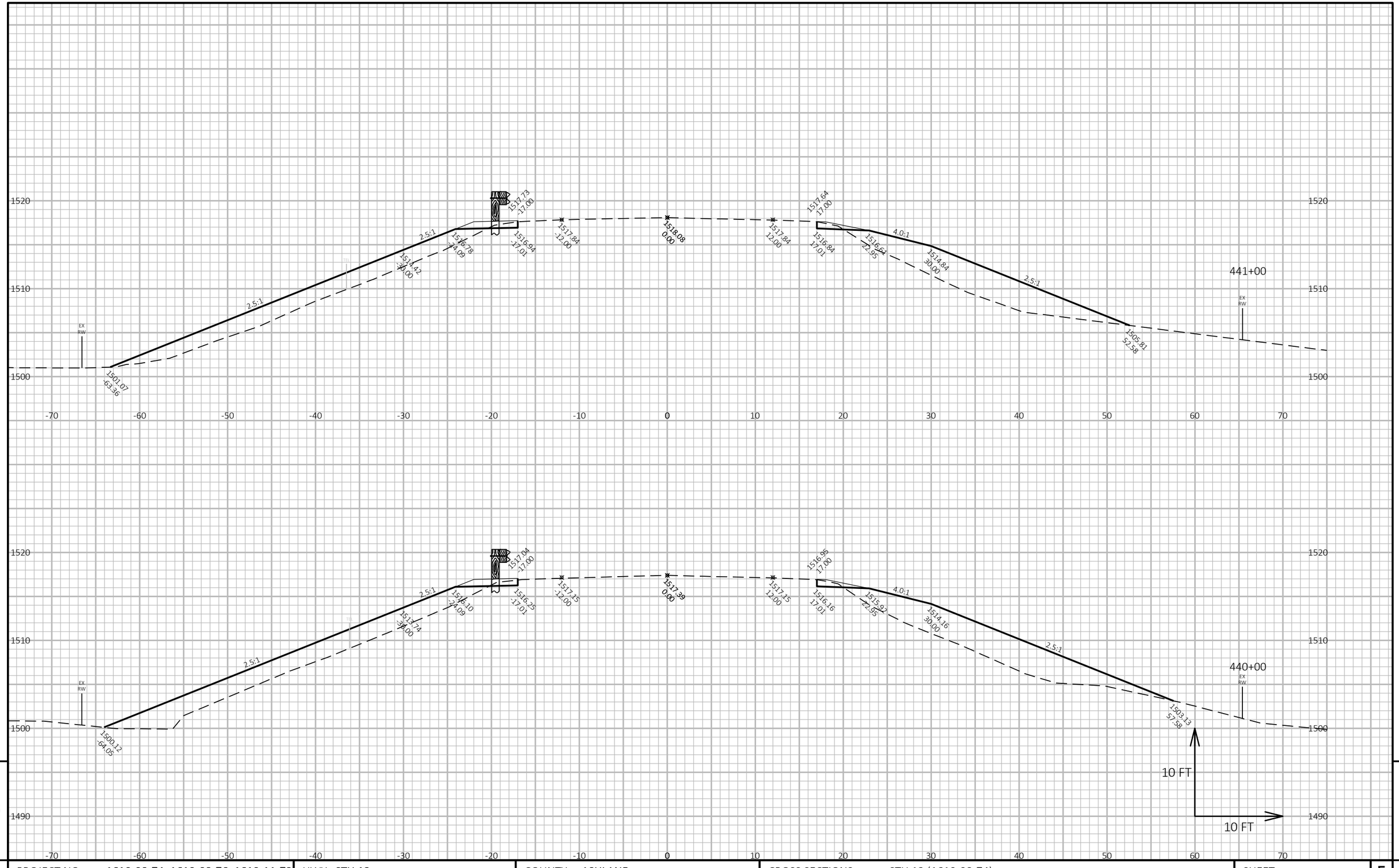
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 277	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(16)

PLOT DATE : 9/25/2018 12:08 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 278	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(17)

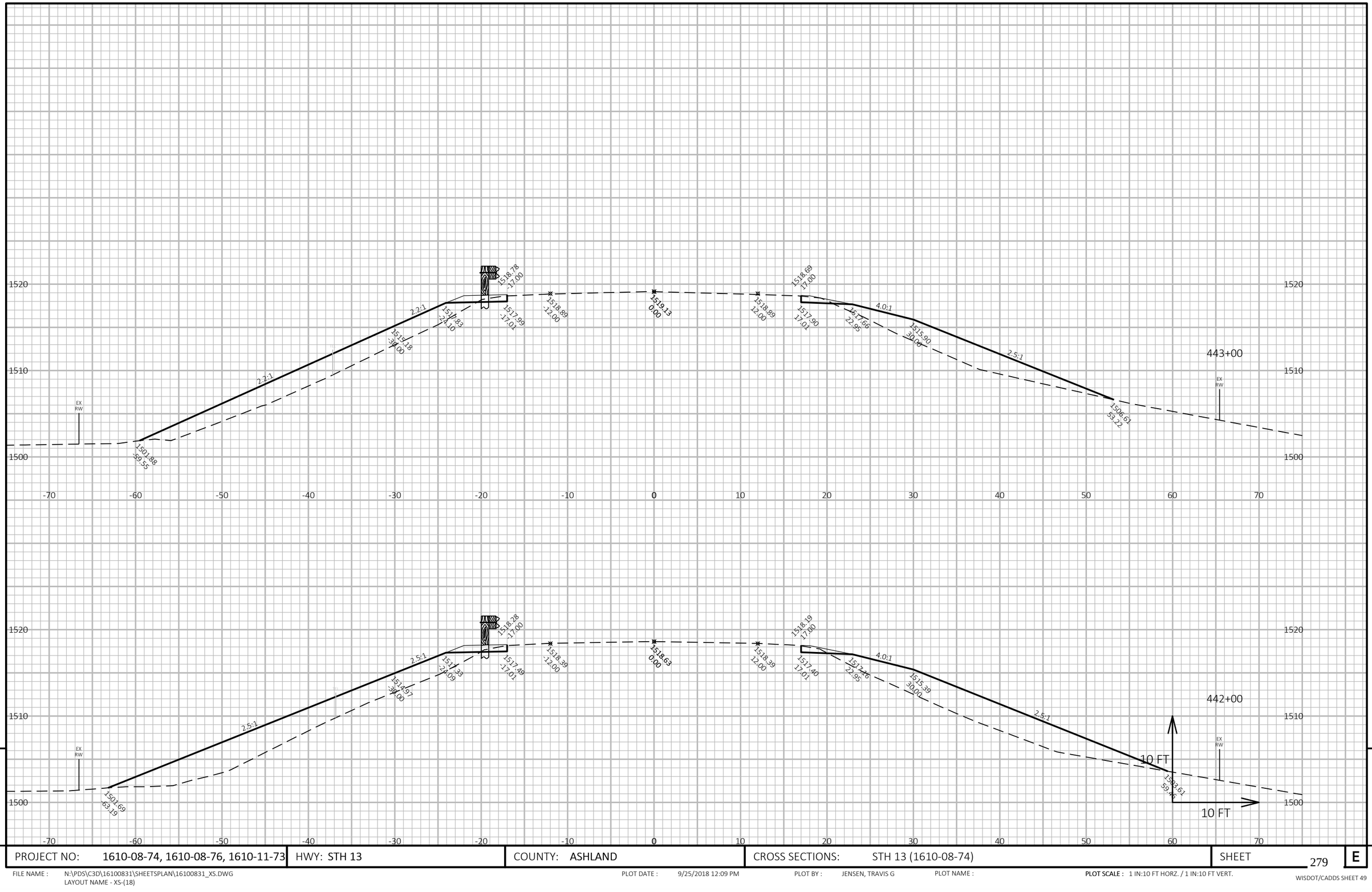
PLOT DATE : 9/25/2018 12:08 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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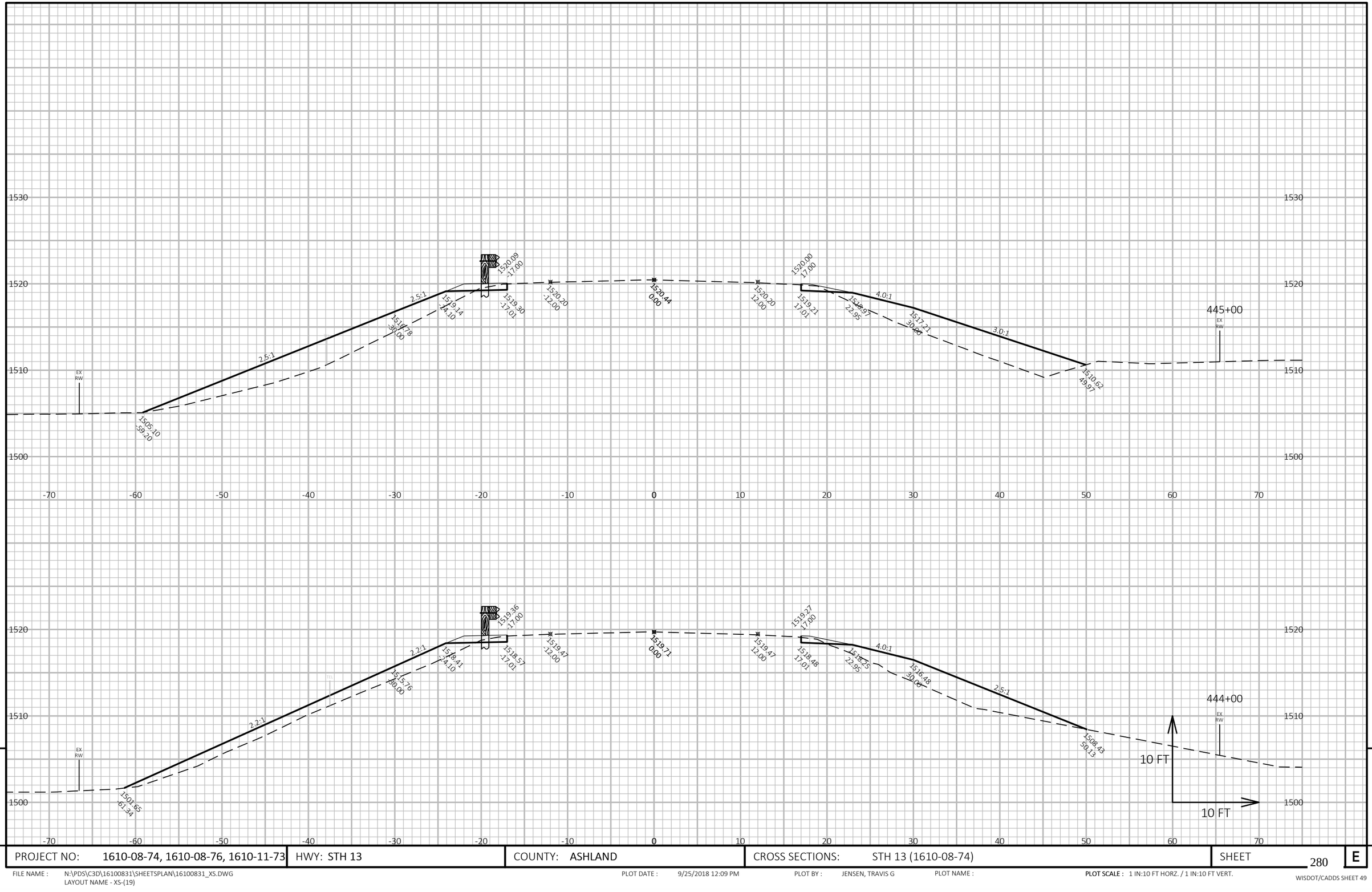
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 279	E

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FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(18)

PLOT DATE : 9/25/2018 12:09 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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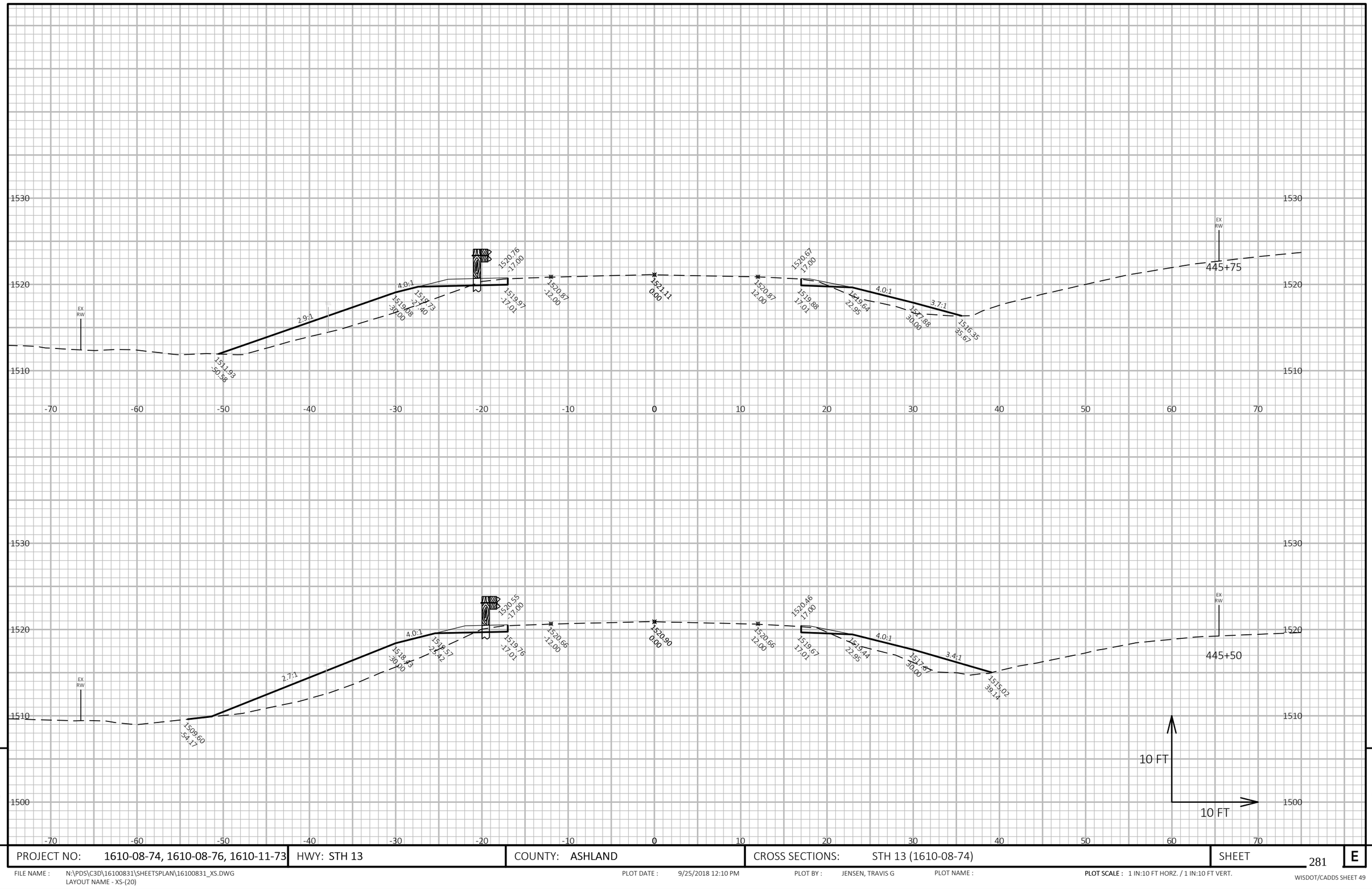
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 280	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(19)

PLOT DATE : 9/25/2018 12:09 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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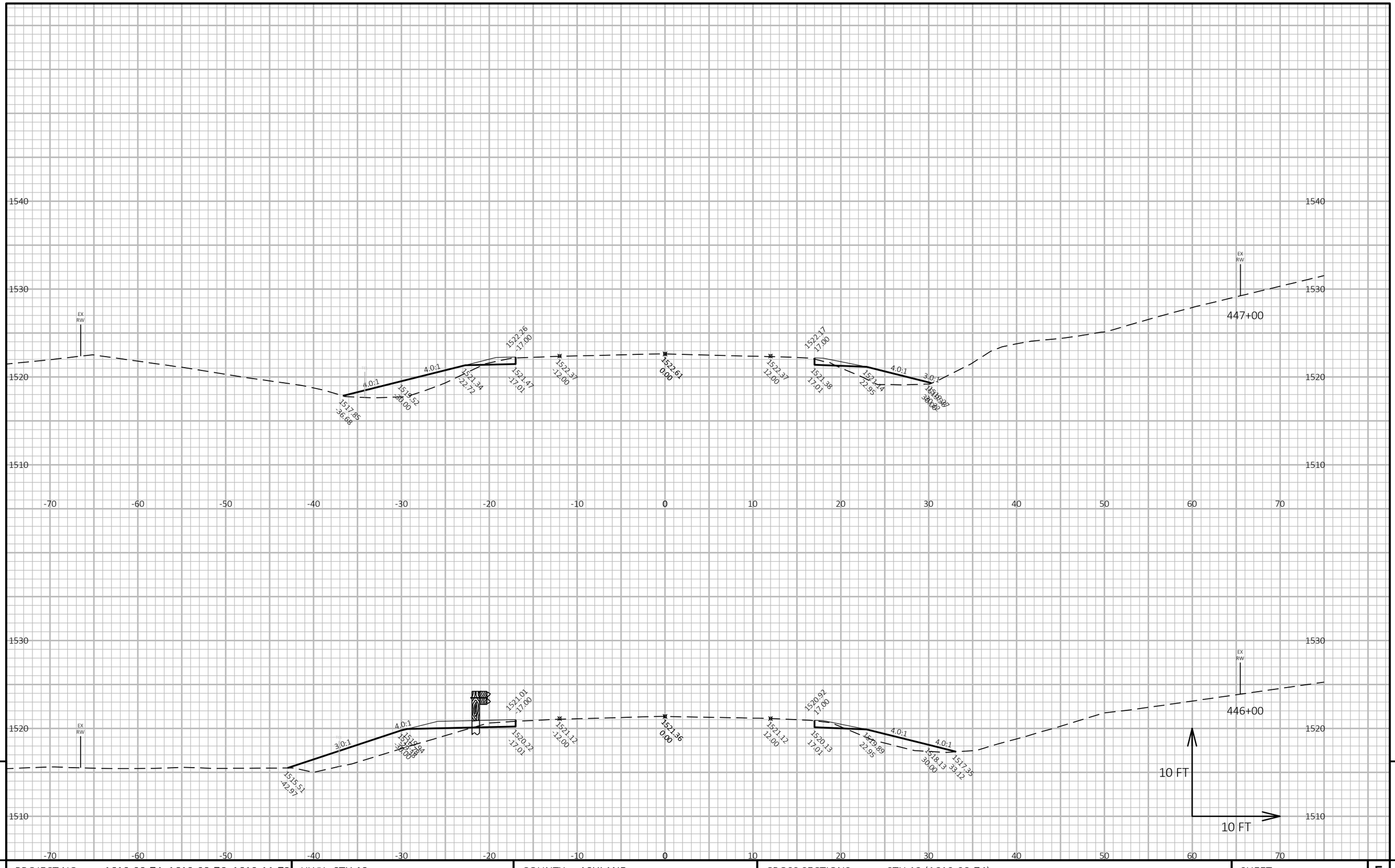
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 281	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(20)

PLOT DATE : 9/25/2018 12:10 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 282	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(21)

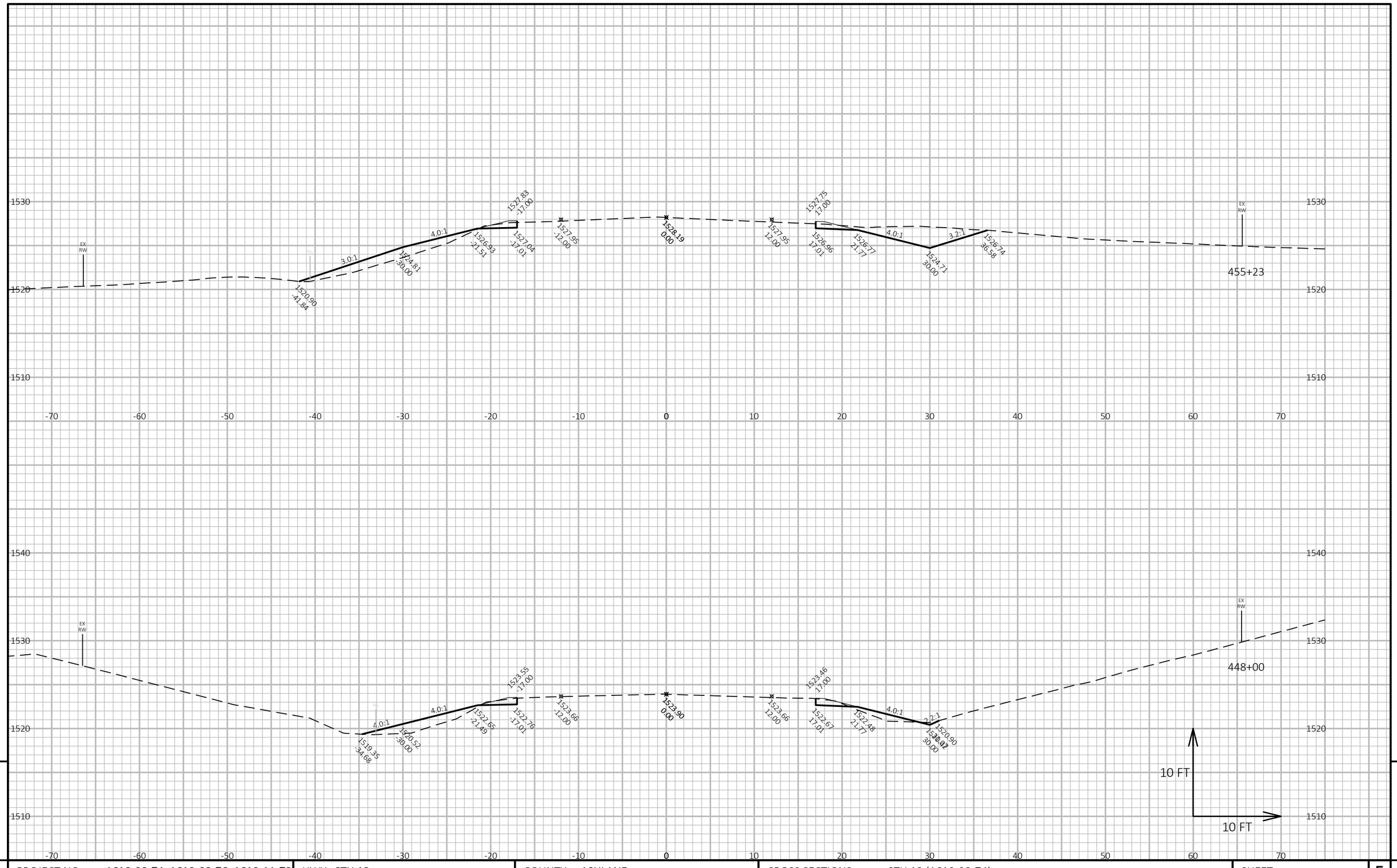
PLOT DATE : 9/25/2018 12:10 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 283	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(22)

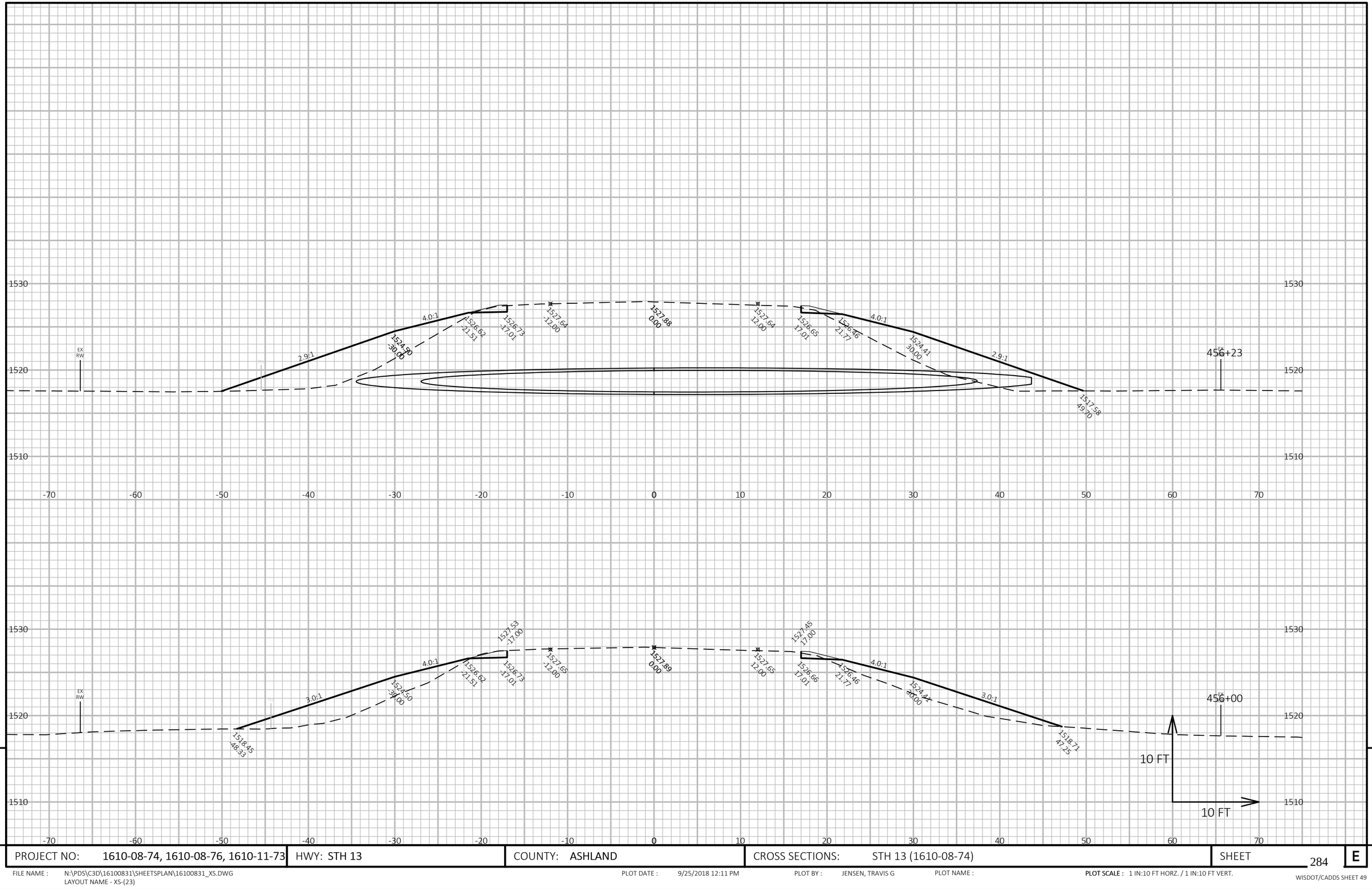
PLOT DATE : 9/25/2018 12:11 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



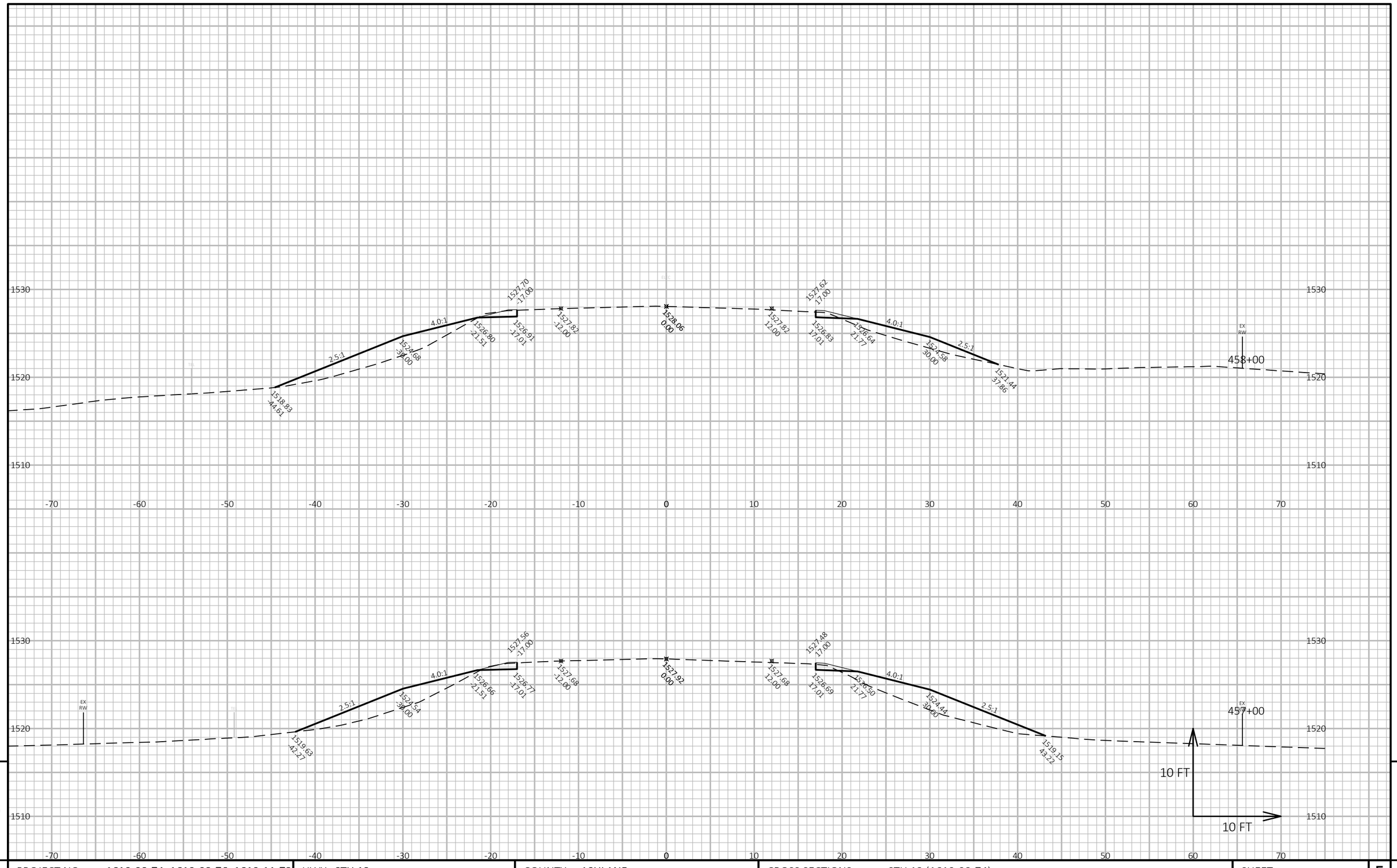
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 284	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(23)

PLOT DATE : 9/25/2018 12:11 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



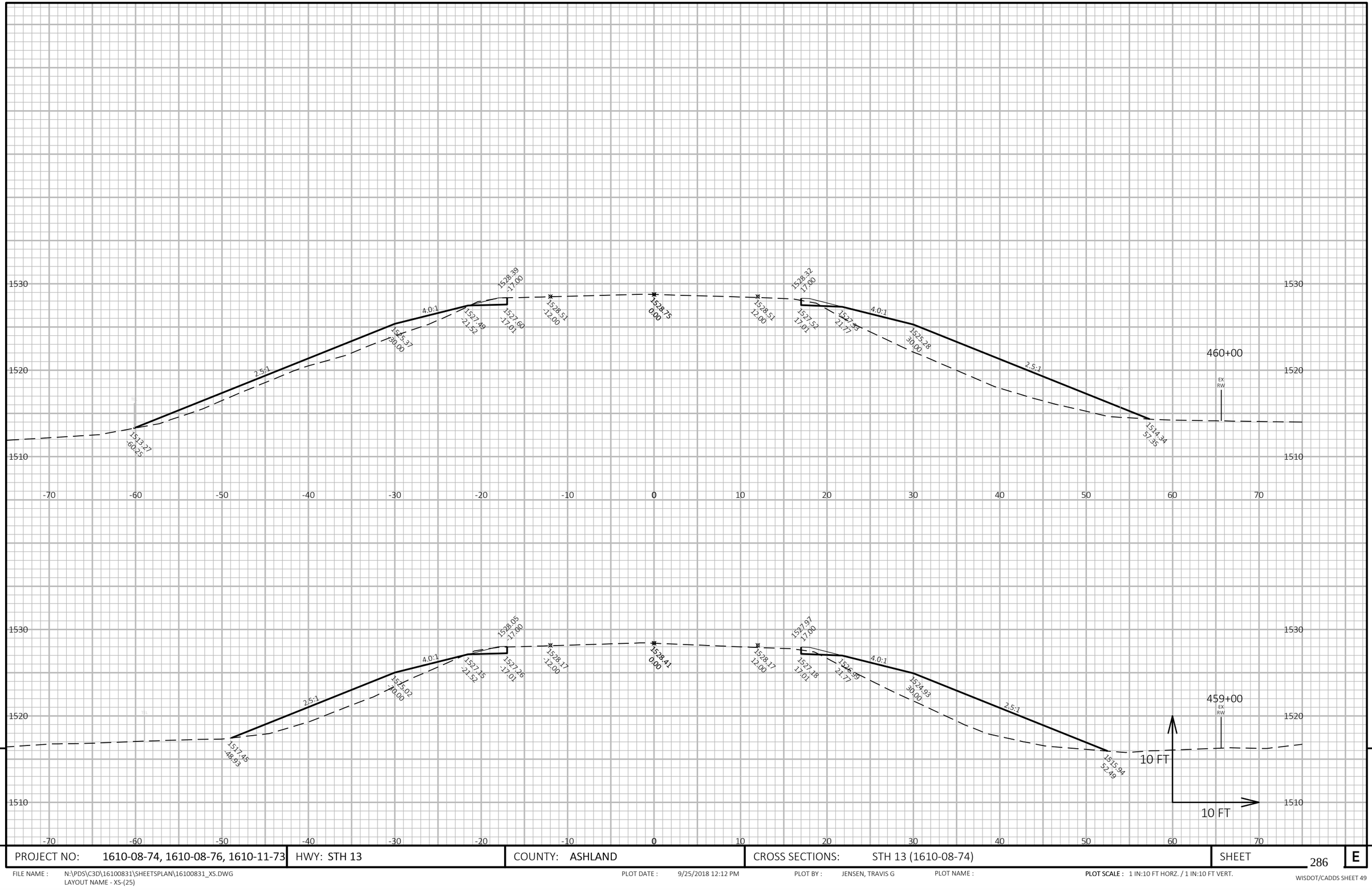
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 285	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(24)

PLOT DATE : 9/25/2018 12:11 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

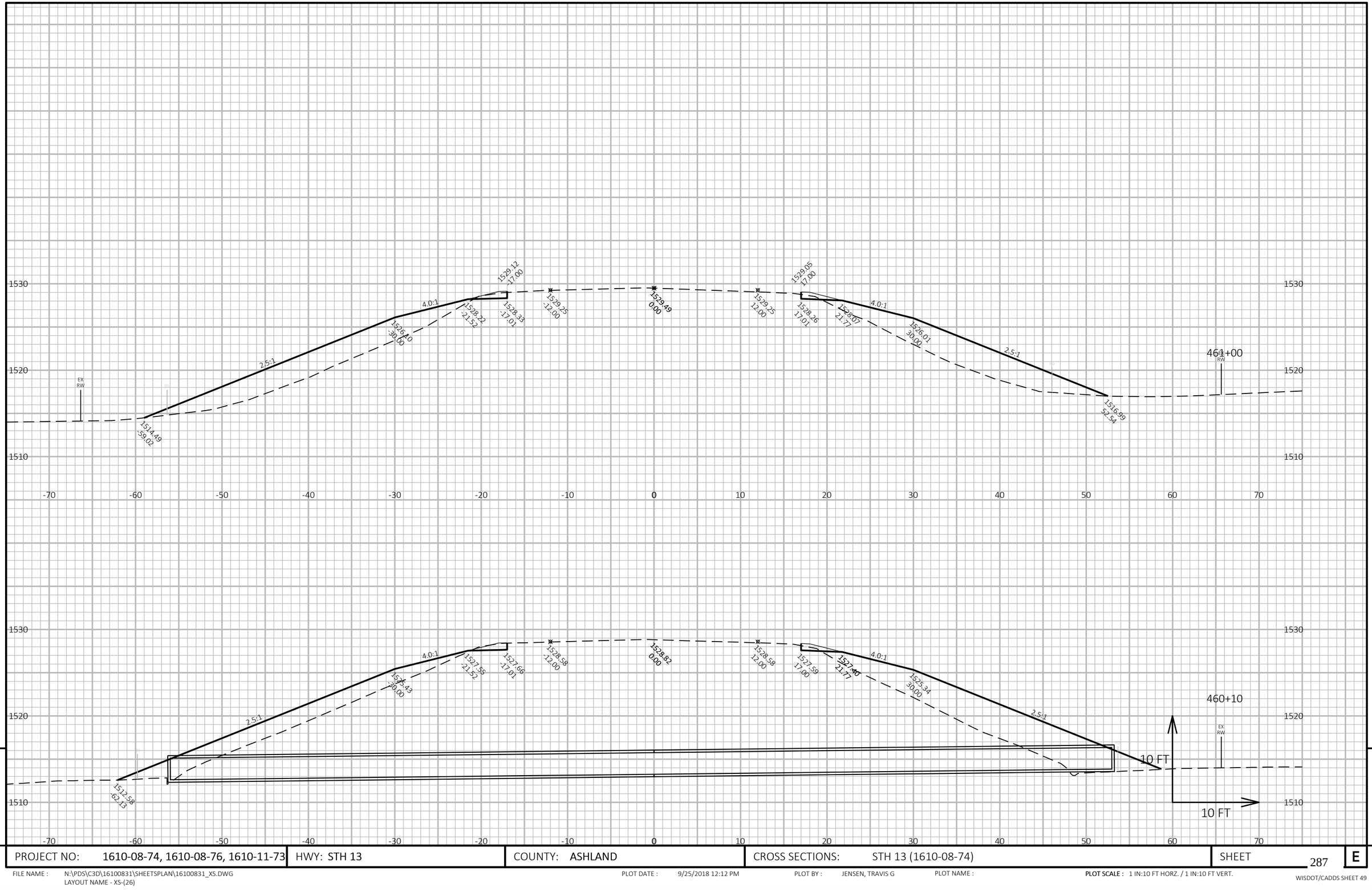
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 286	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(25)

PLOT DATE : 9/25/2018 12:12 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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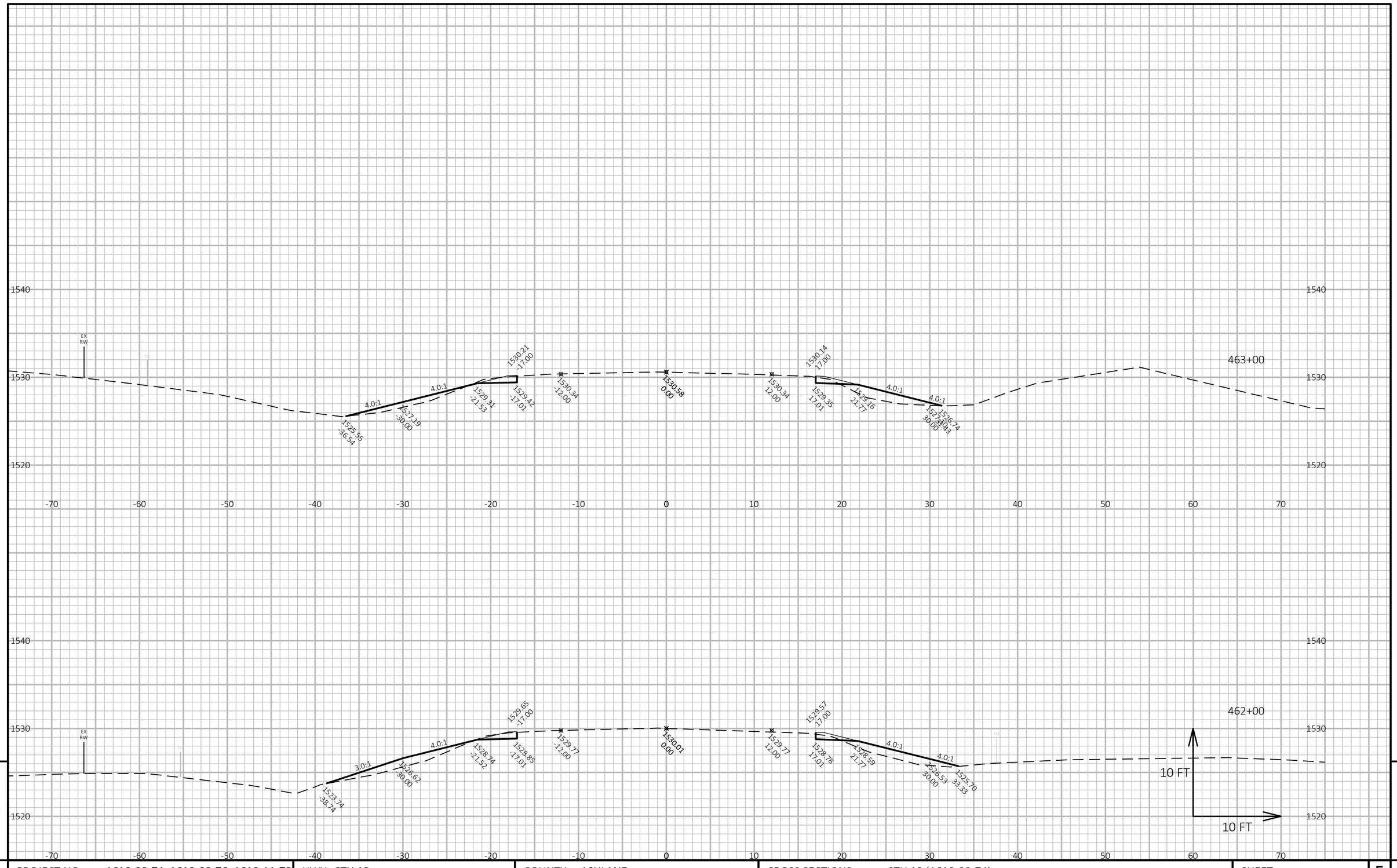
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 287	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(26)

PLOT DATE : 9/25/2018 12:12 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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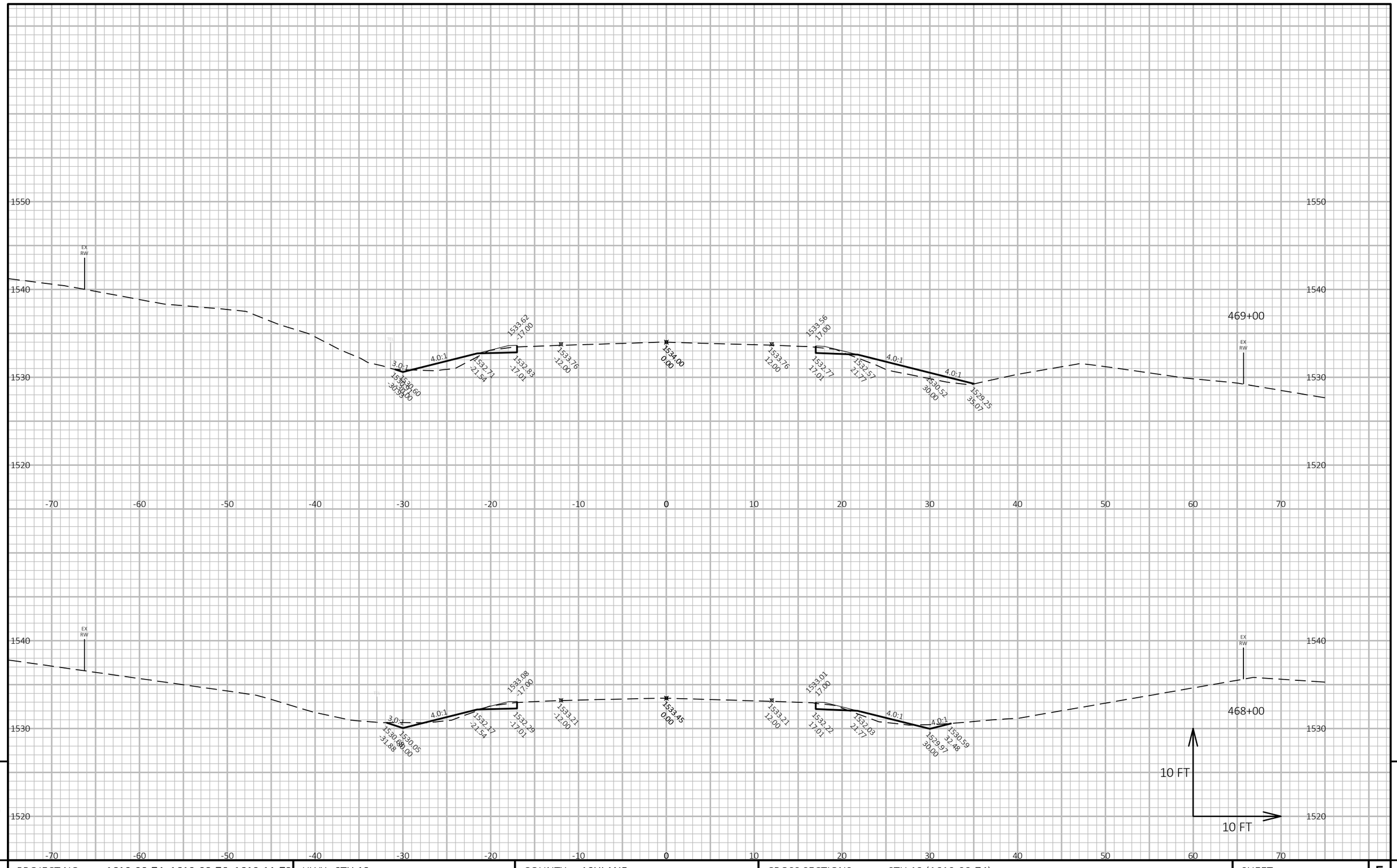
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 288	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(27)

PLOT DATE : 9/25/2018 12:13 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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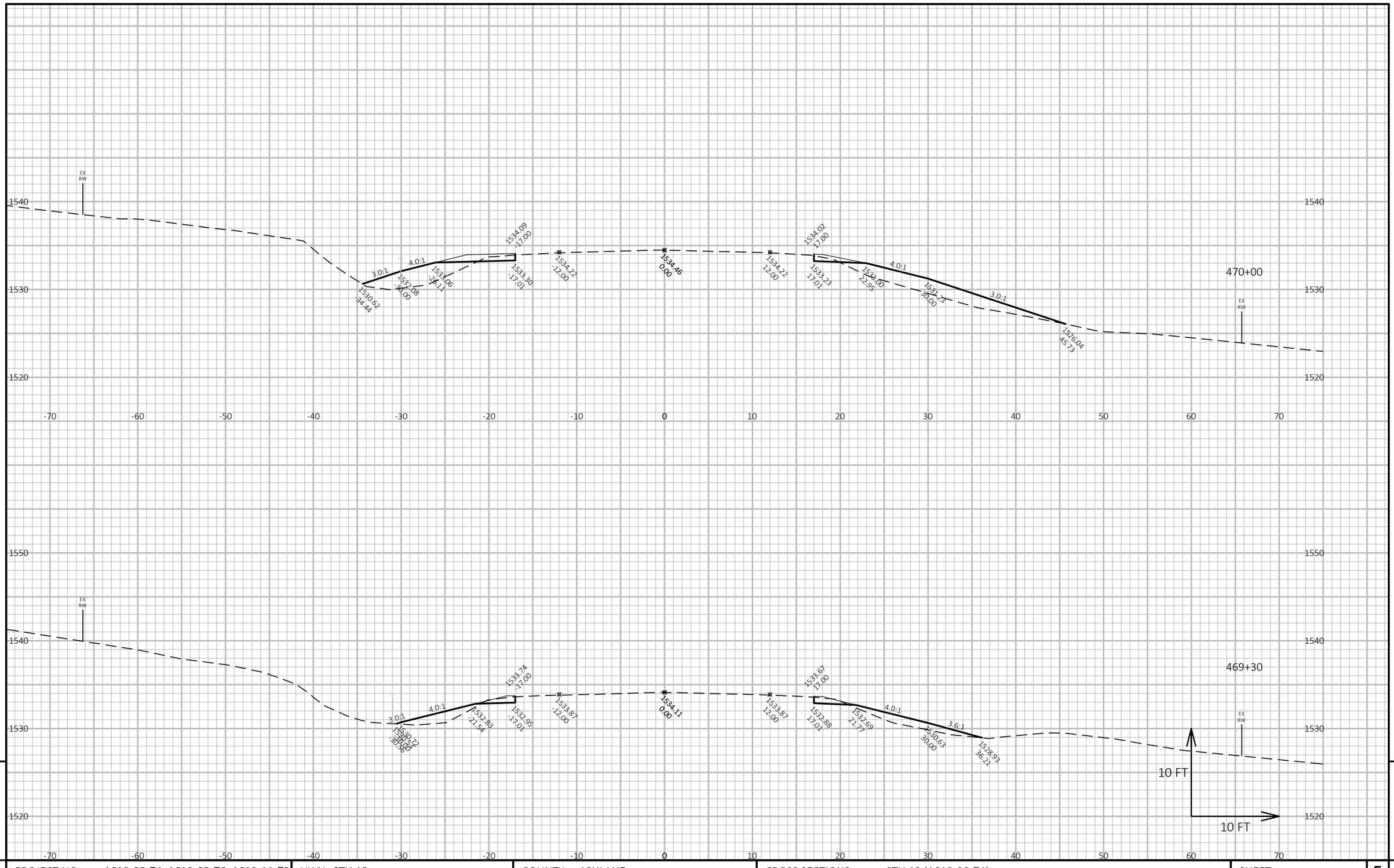
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 289	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(28)

PLOT DATE : 9/25/2018 12:13 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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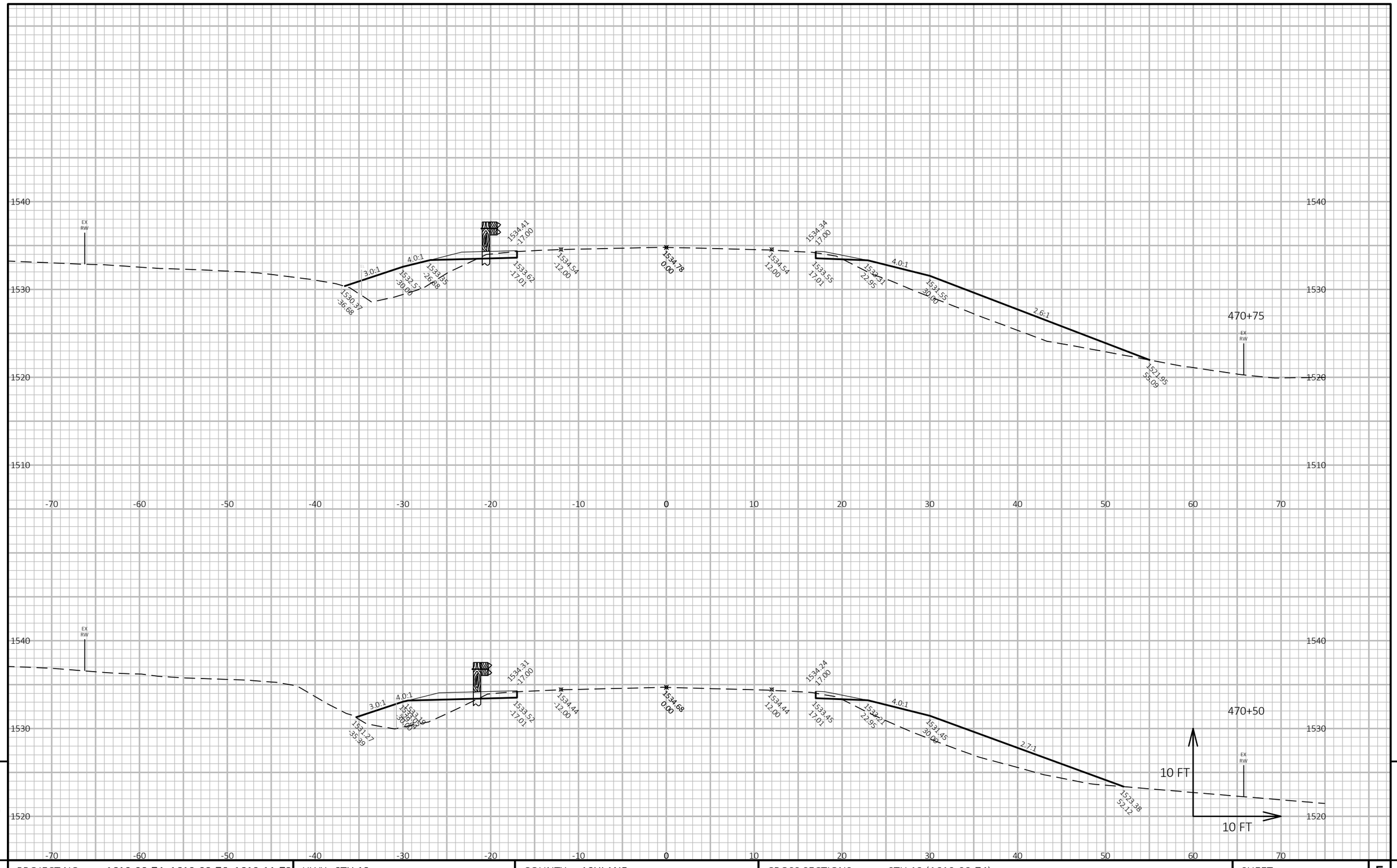
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 290	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(29)

PLOT DATE : 9/25/2018 12:14 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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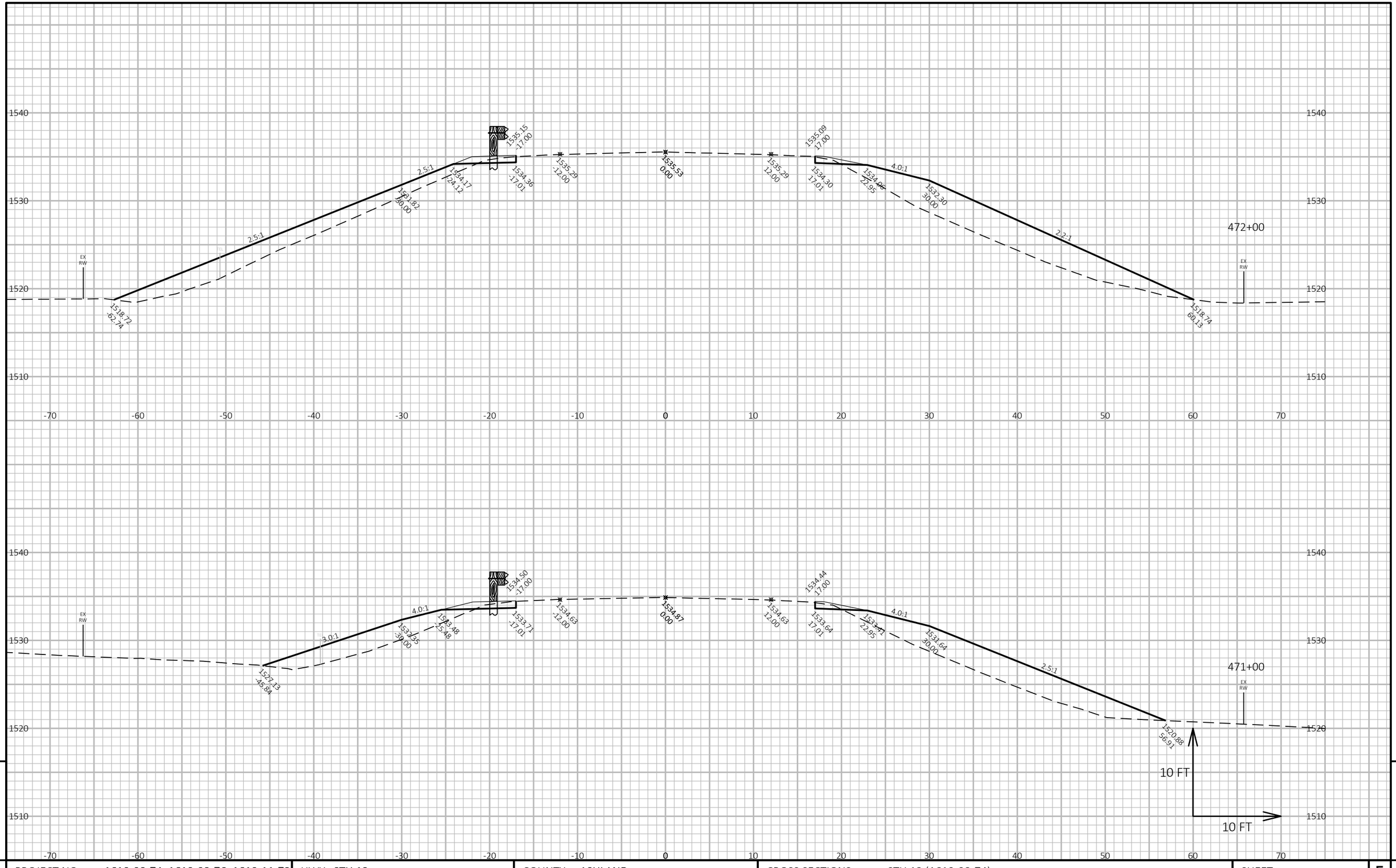
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 291	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(30)

PLOT DATE : 9/25/2018 12:14 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49

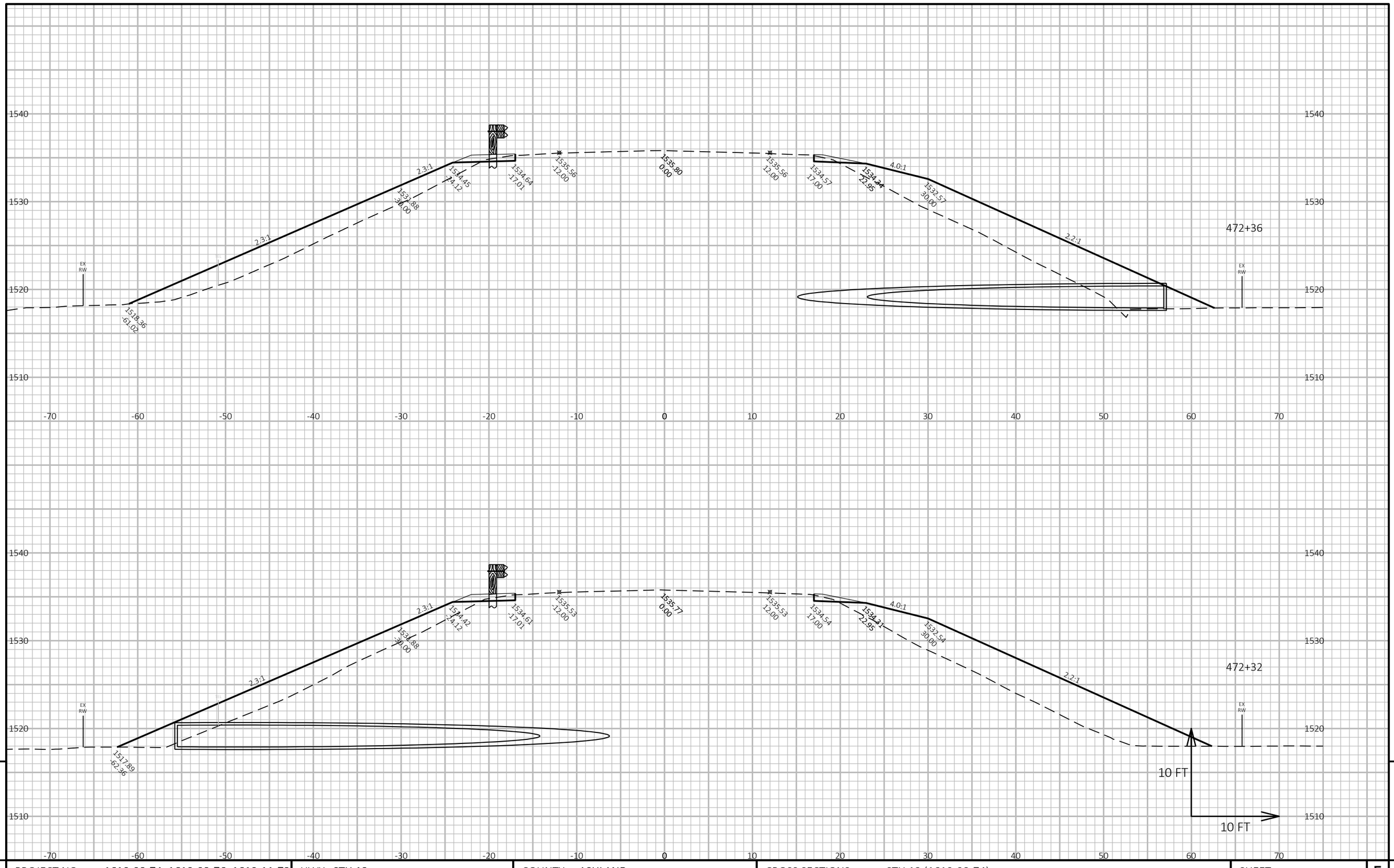


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 292 E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(31)

PLOT DATE : 9/25/2018 12:15 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

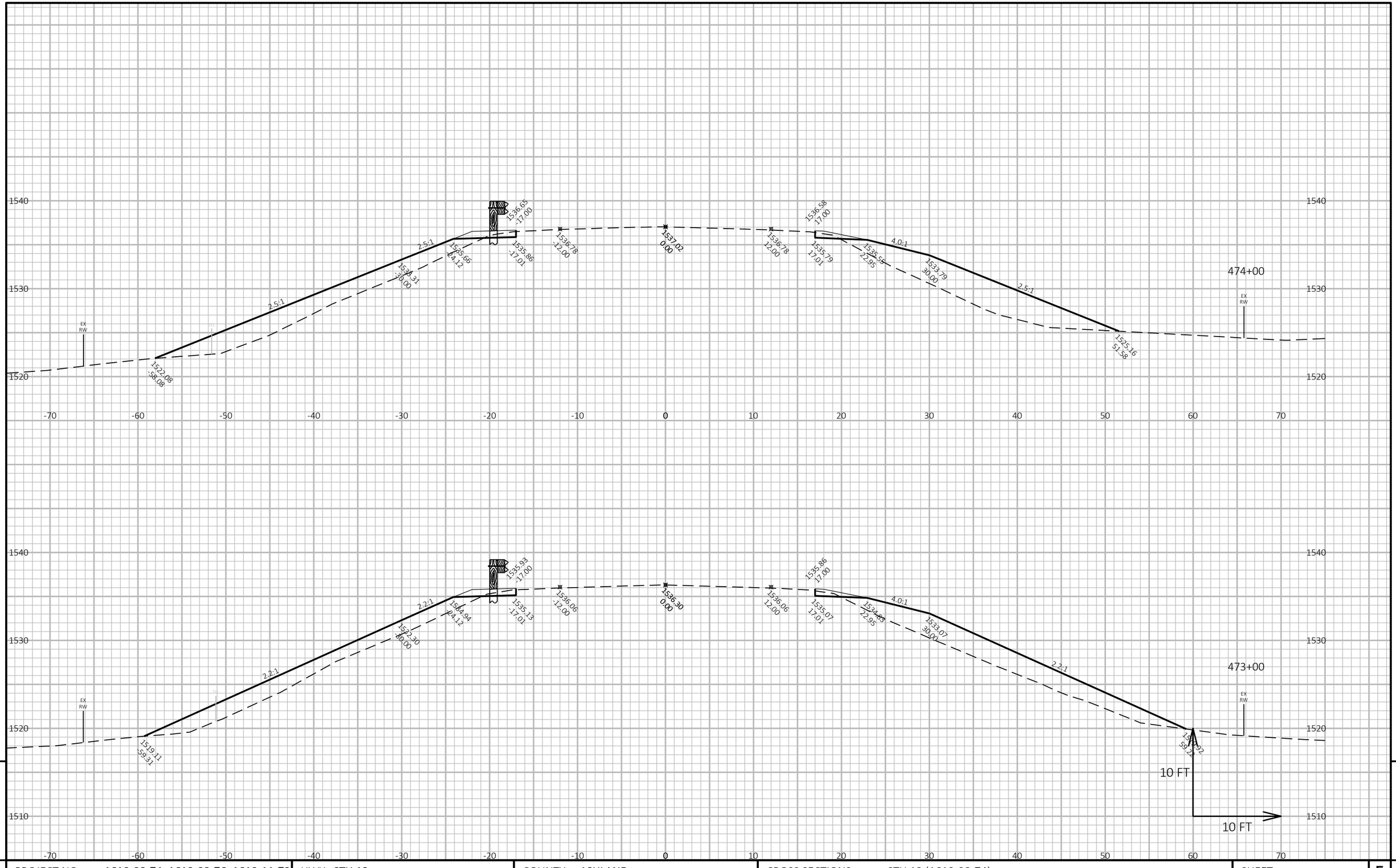


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 293	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(32)

PLOT DATE : 9/25/2018 12:15 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 294	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(33)

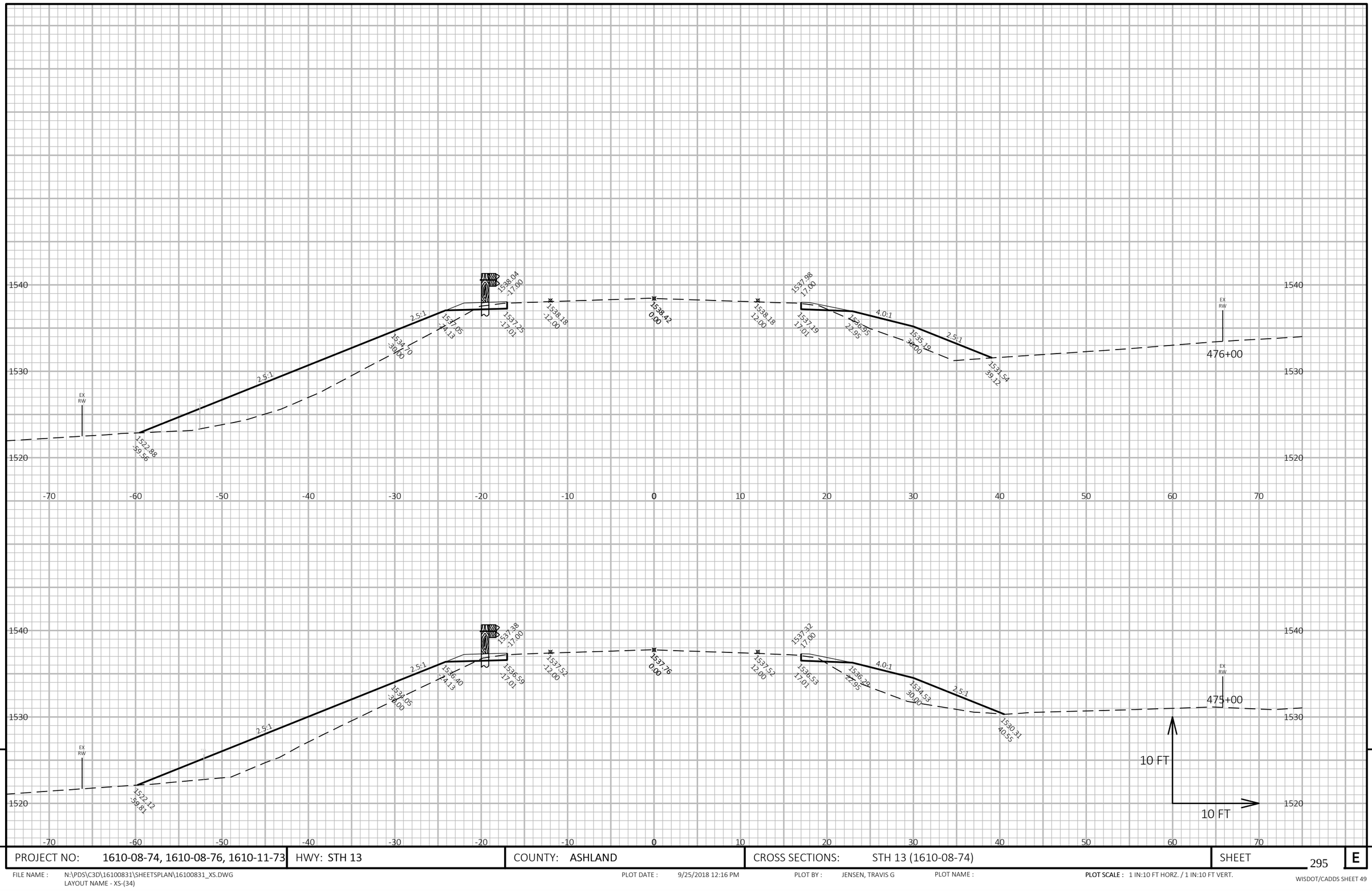
PLOT DATE : 9/25/2018 12:16 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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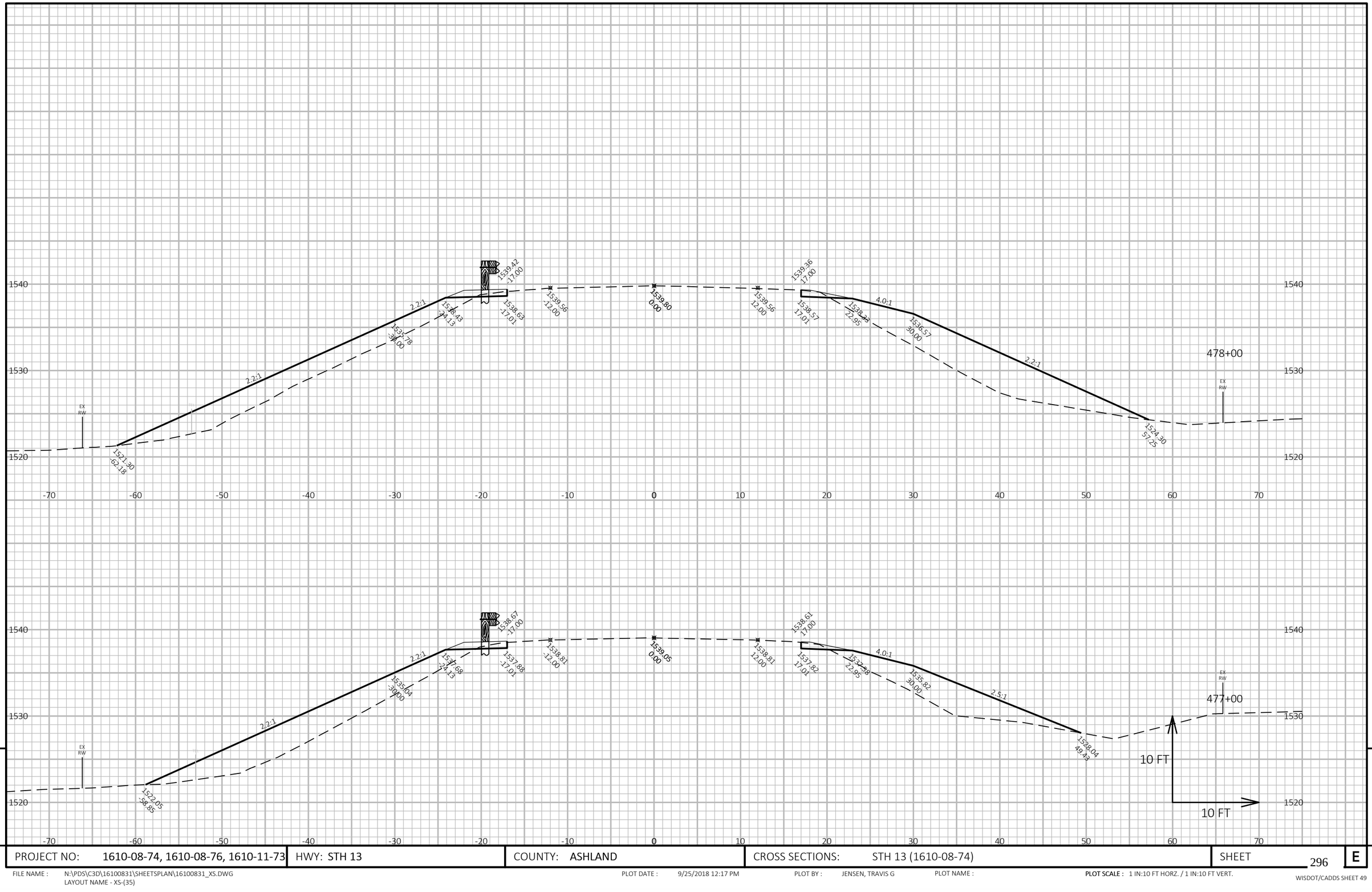
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 295	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(34)

PLOT DATE : 9/25/2018 12:16 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 296	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(35)

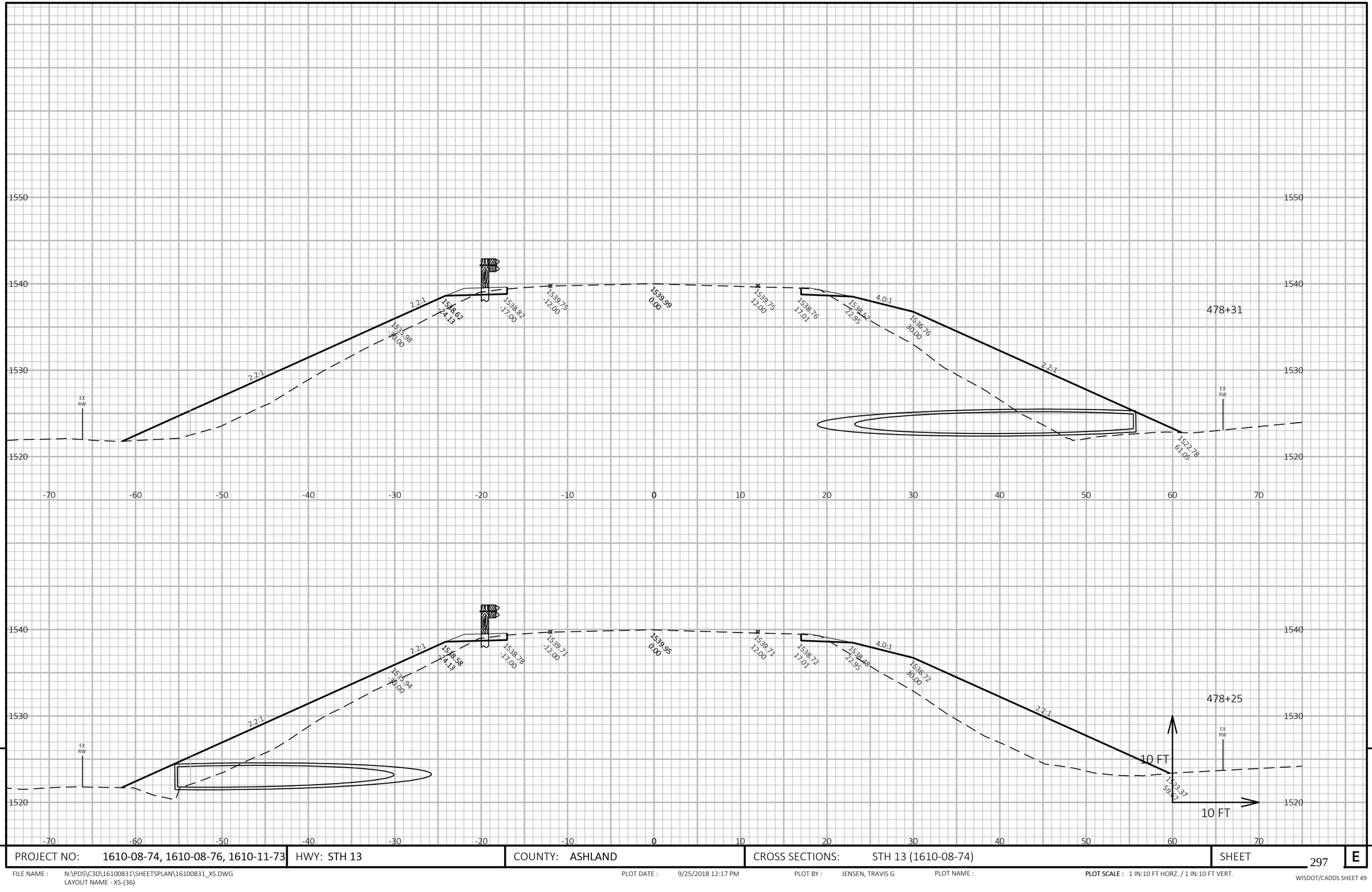
PLOT DATE : 9/25/2018 12:17 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49

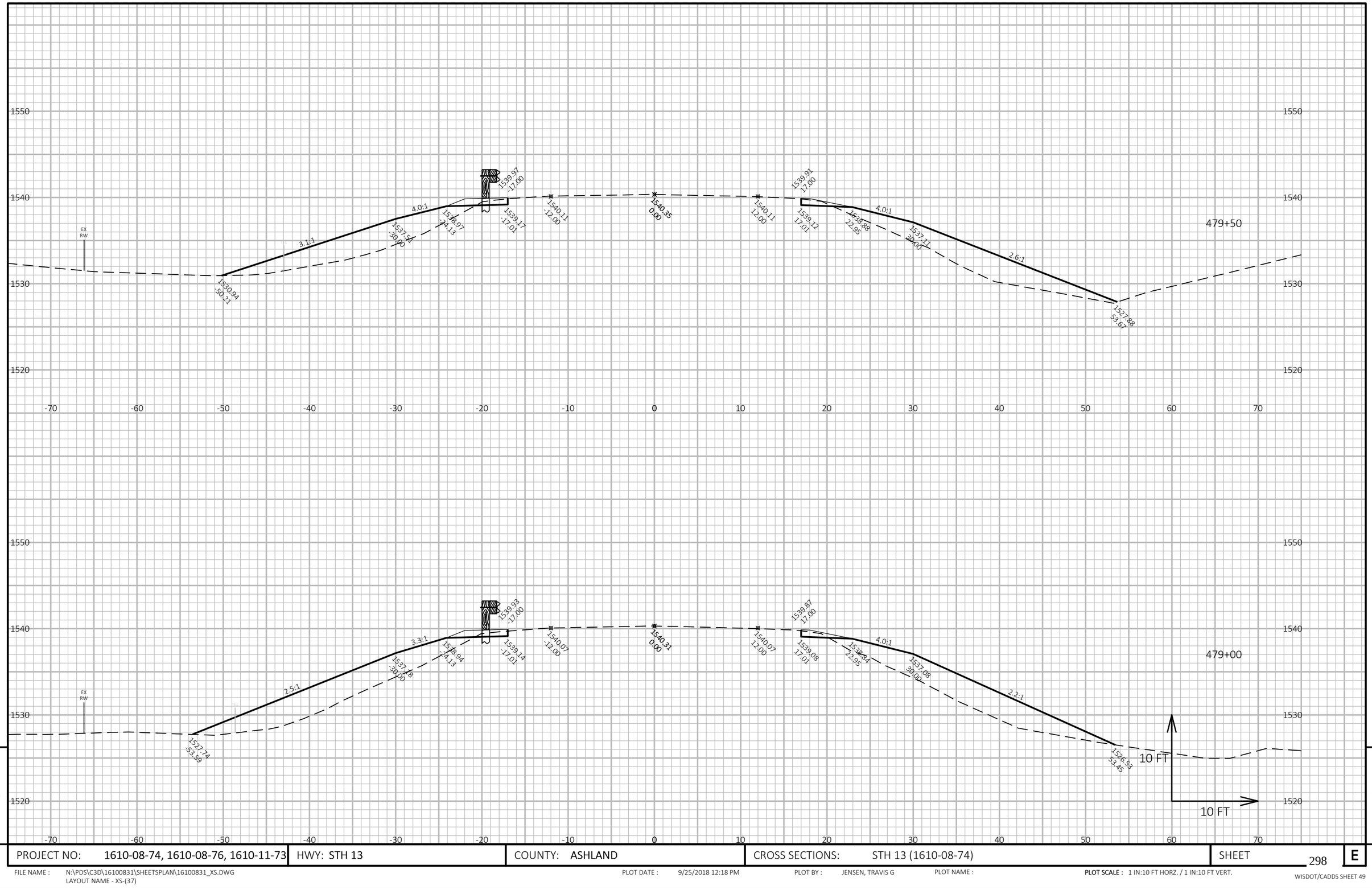


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 297	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(36)

PLOT DATE : 9/25/2018 12:17 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 298	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(37)

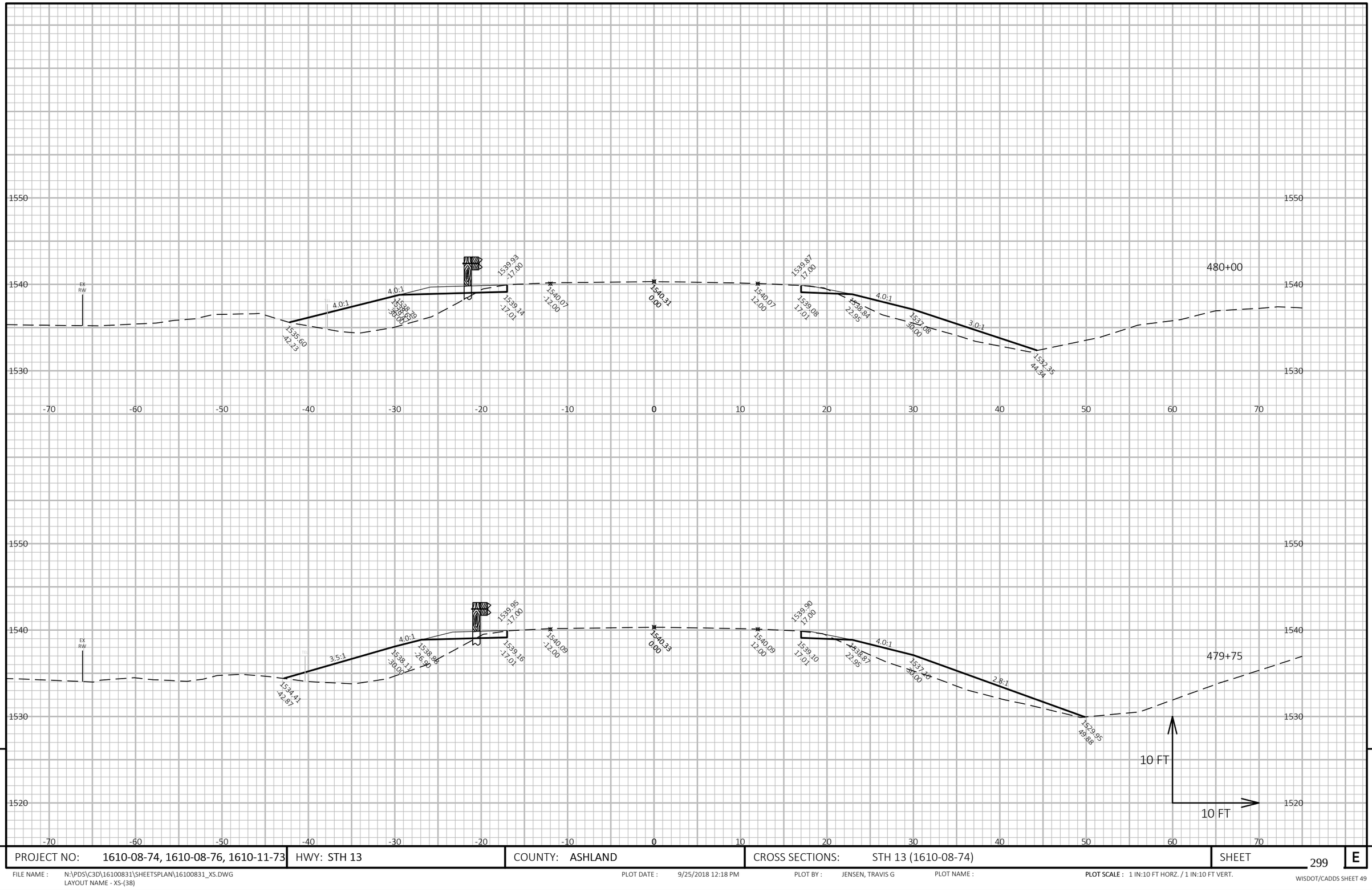
PLOT DATE : 9/25/2018 12:18 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 299	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(38)

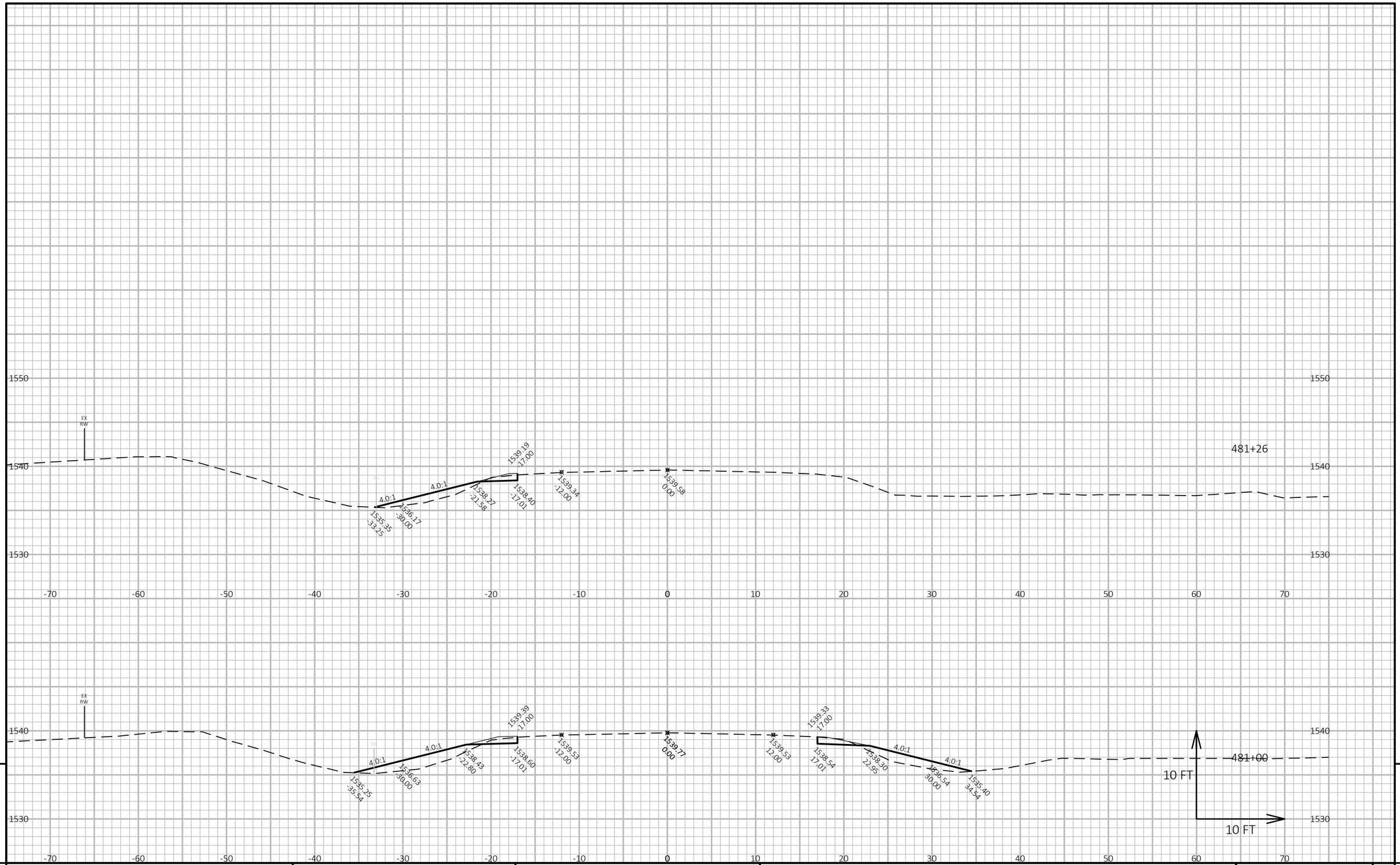
PLOT DATE : 9/25/2018 12:18 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

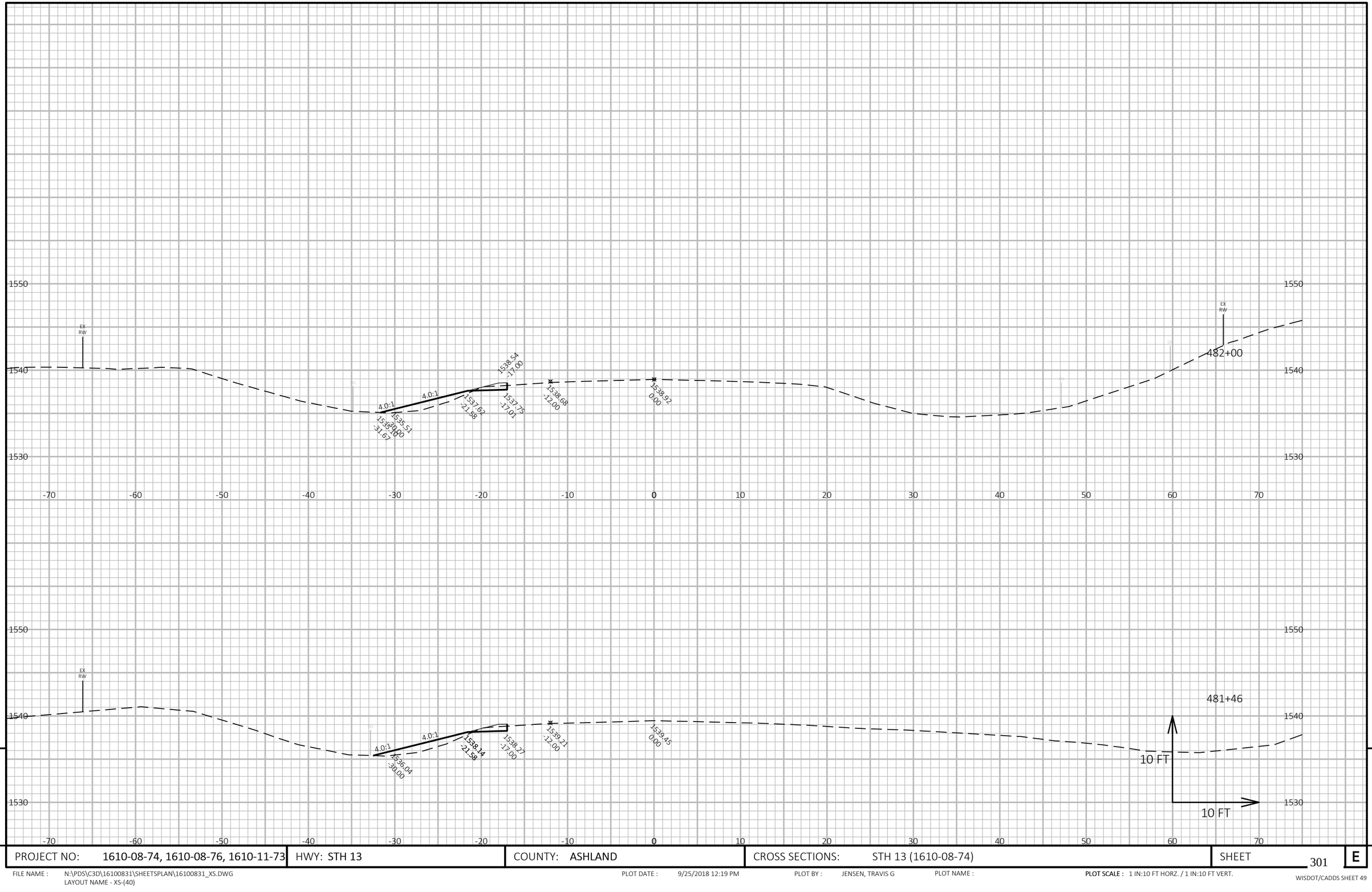
WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 300	E



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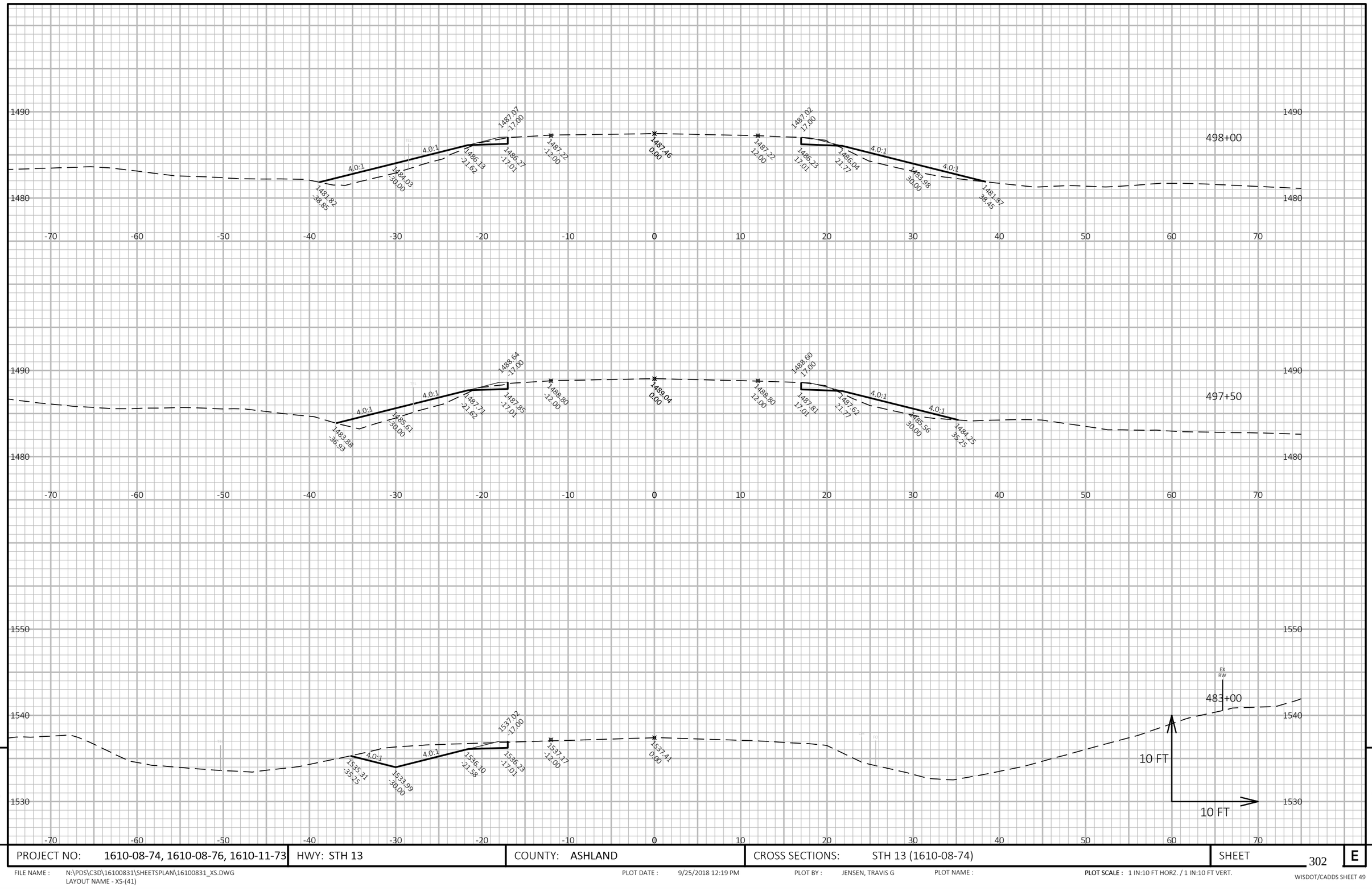
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 301	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(40)

PLOT DATE : 9/25/2018 12:19 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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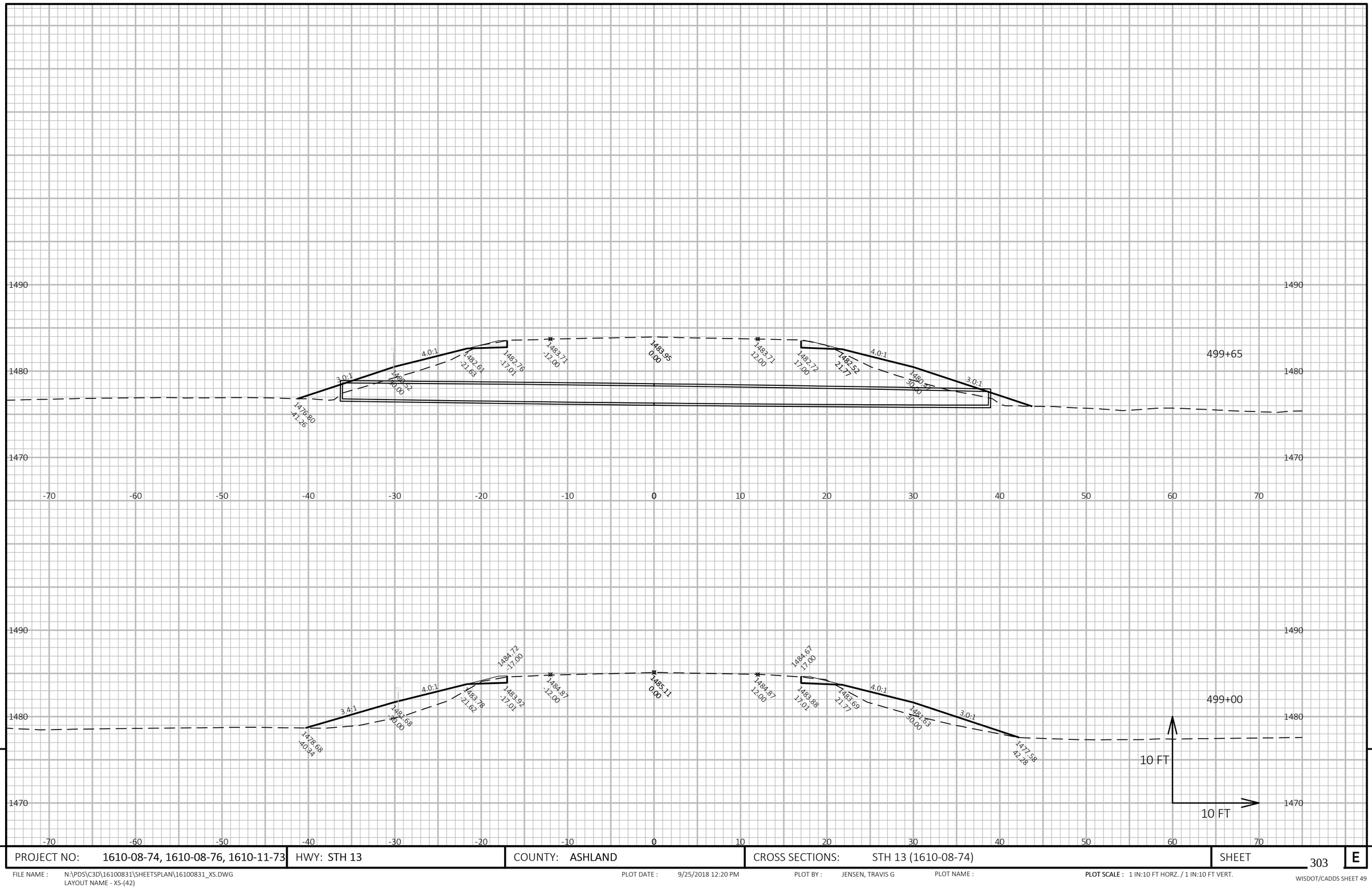
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 302	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(41)

PLOT DATE : 9/25/2018 12:19 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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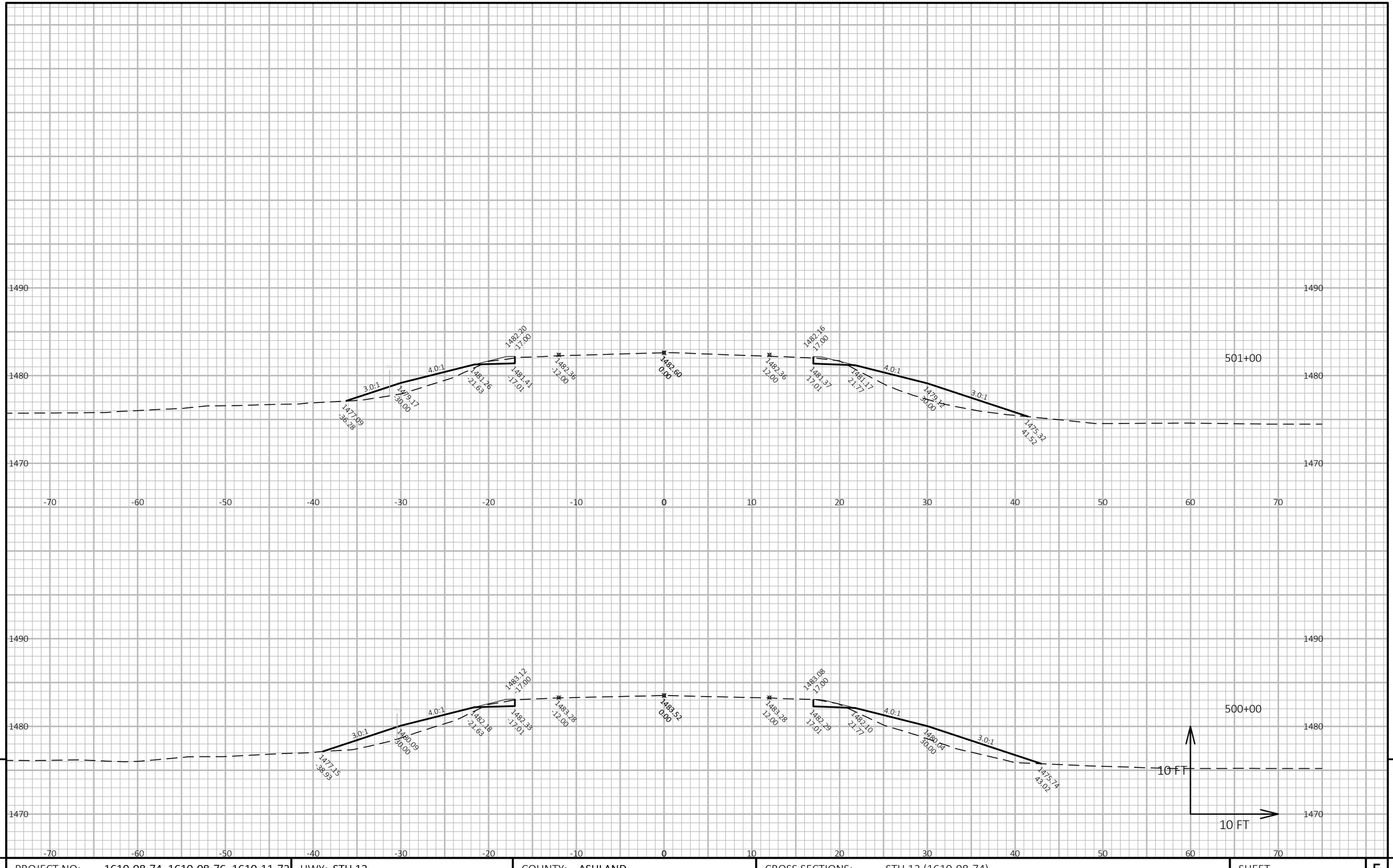
9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 303	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(42)

PLOT DATE : 9/25/2018 12:20 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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



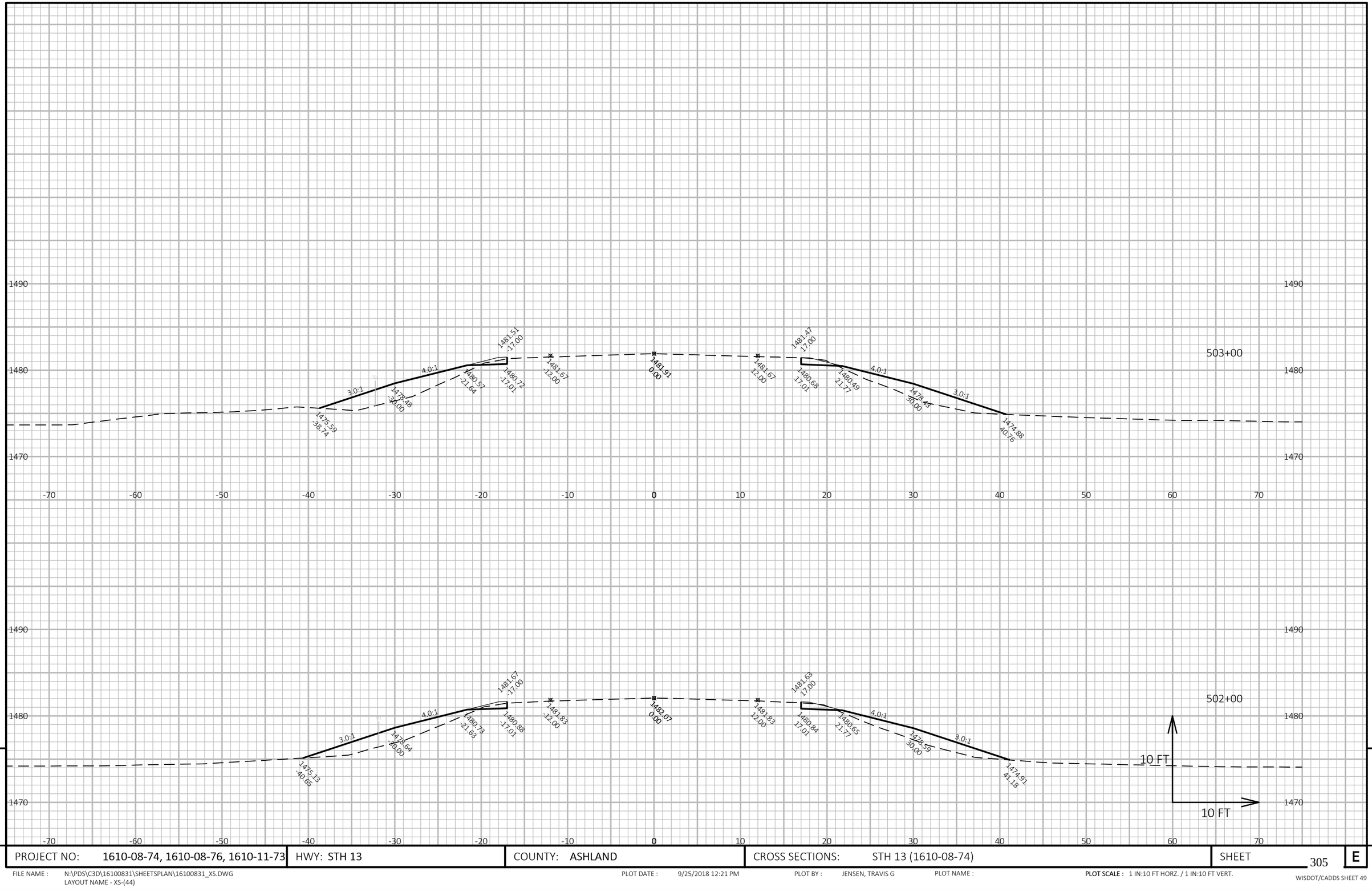
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 304	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(43)

PLOT DATE : 9/25/2018 12:20 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 305	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(44)

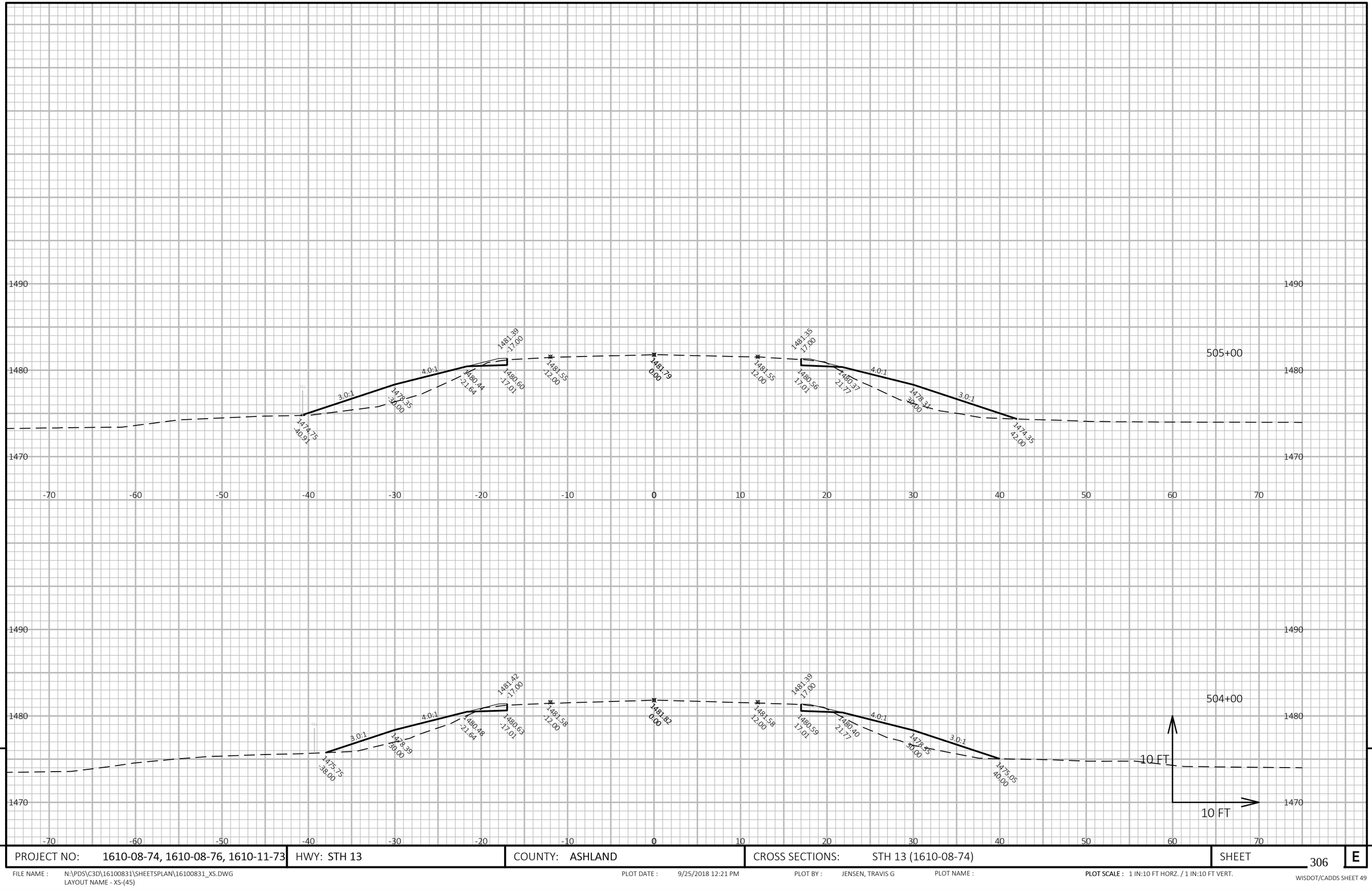
PLOT DATE : 9/25/2018 12:21 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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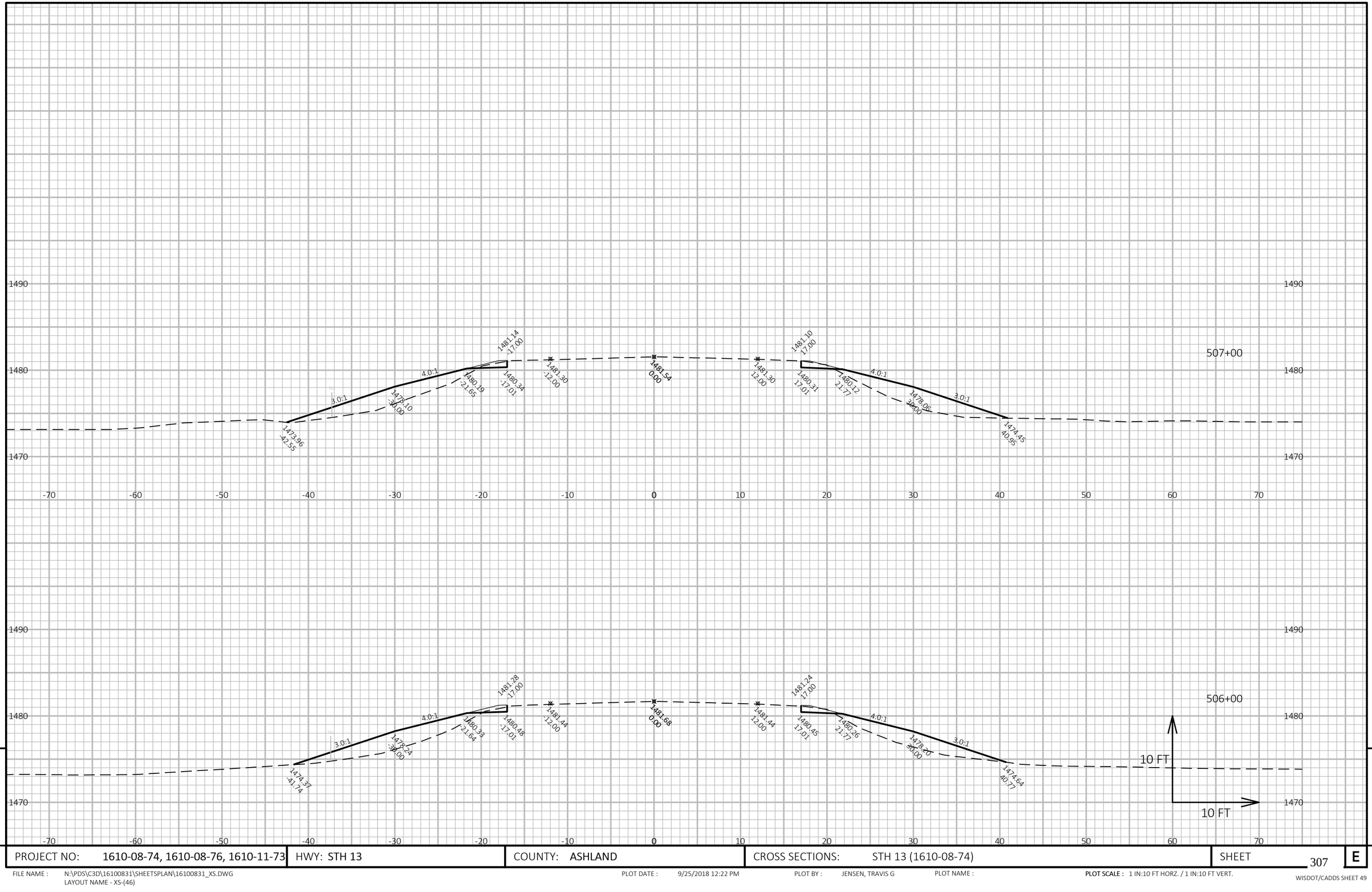
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 306	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(45)

PLOT DATE : 9/25/2018 12:21 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

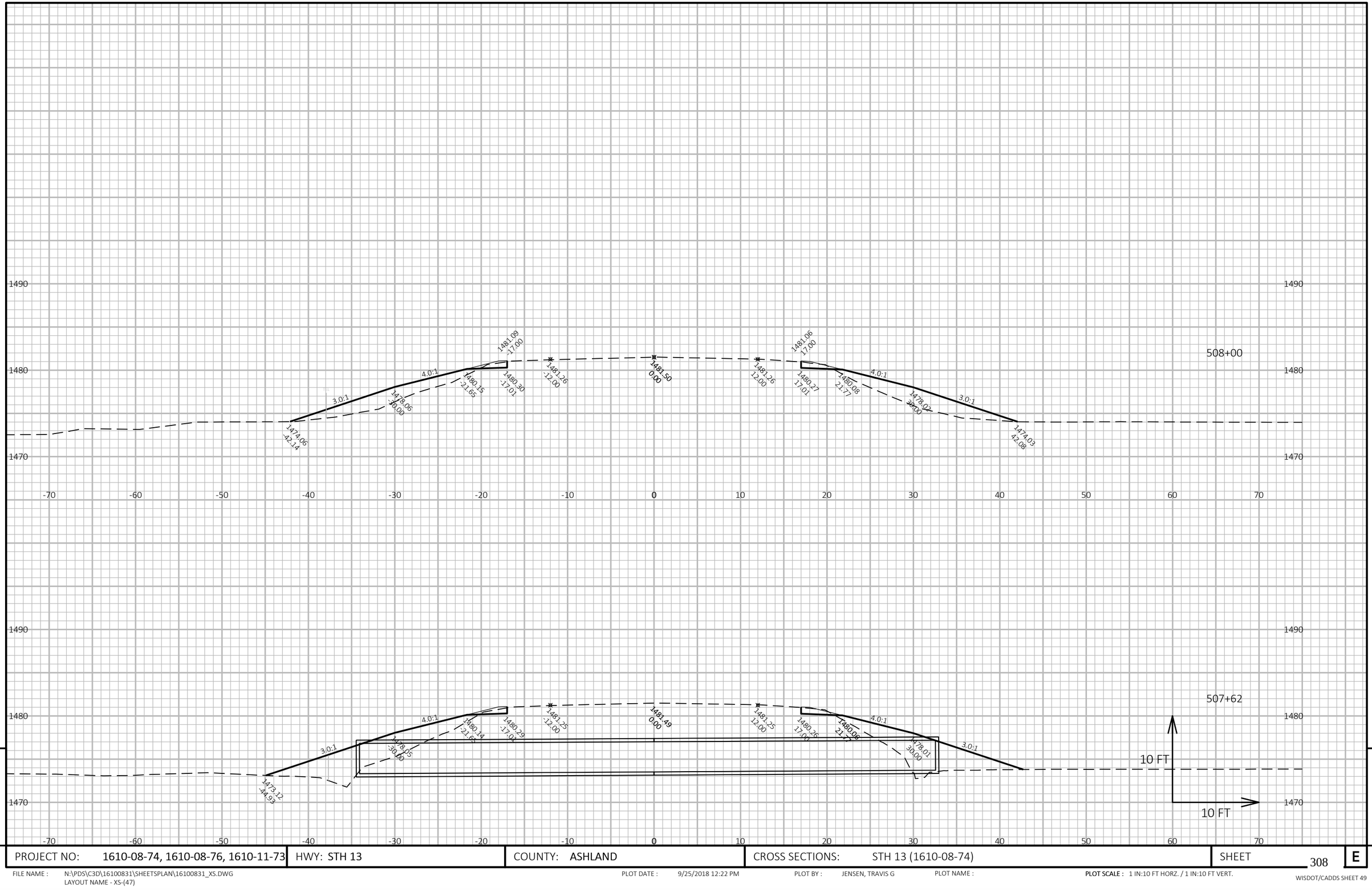


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 307	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(46)

PLOT DATE : 9/25/2018 12:22 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 308	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(47)

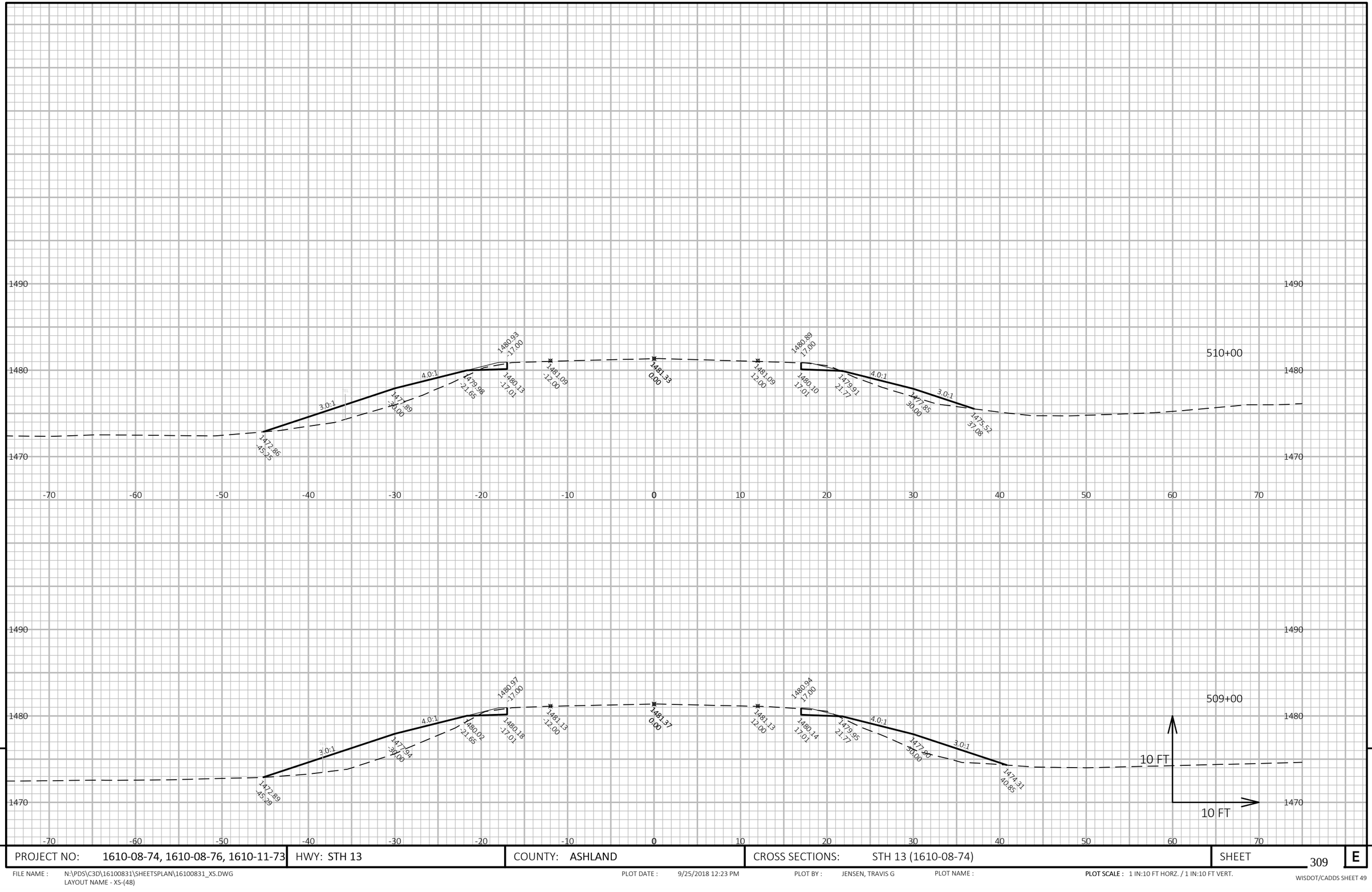
PLOT DATE : 9/25/2018 12:22 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49

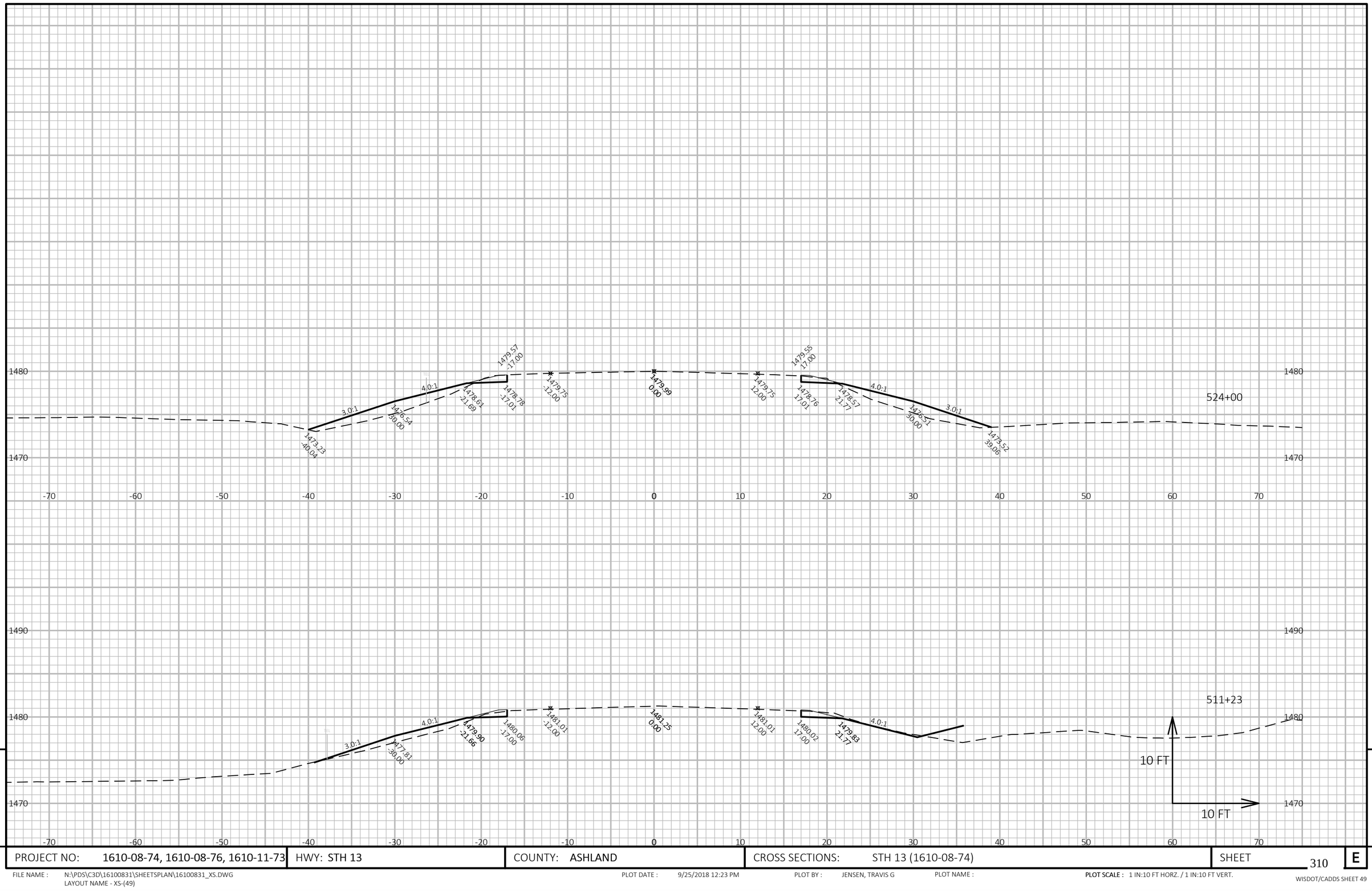


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 309	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(48)

PLOT DATE : 9/25/2018 12:23 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 310	E

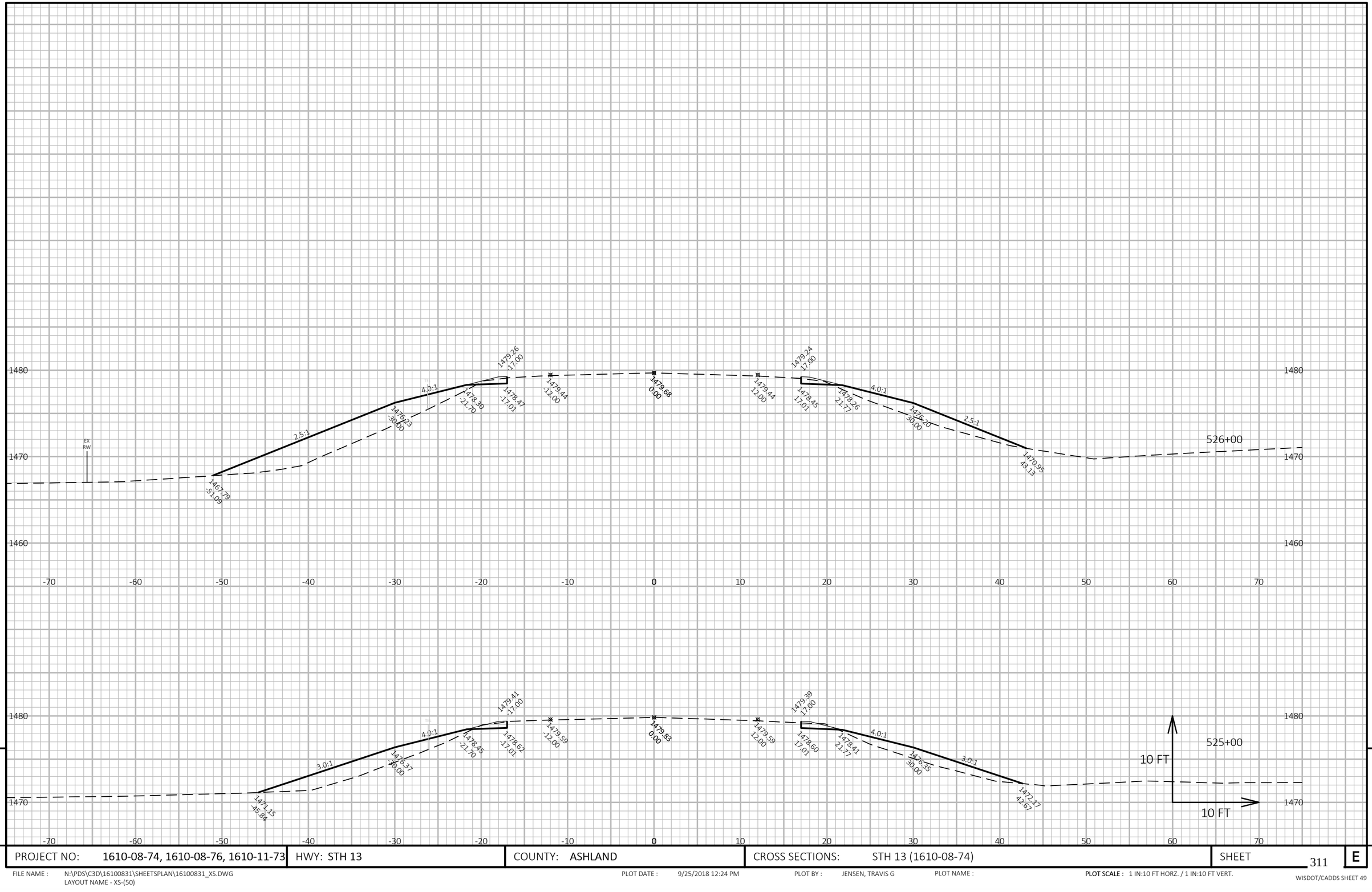
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(49)

PLOT DATE : 9/25/2018 12:23 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



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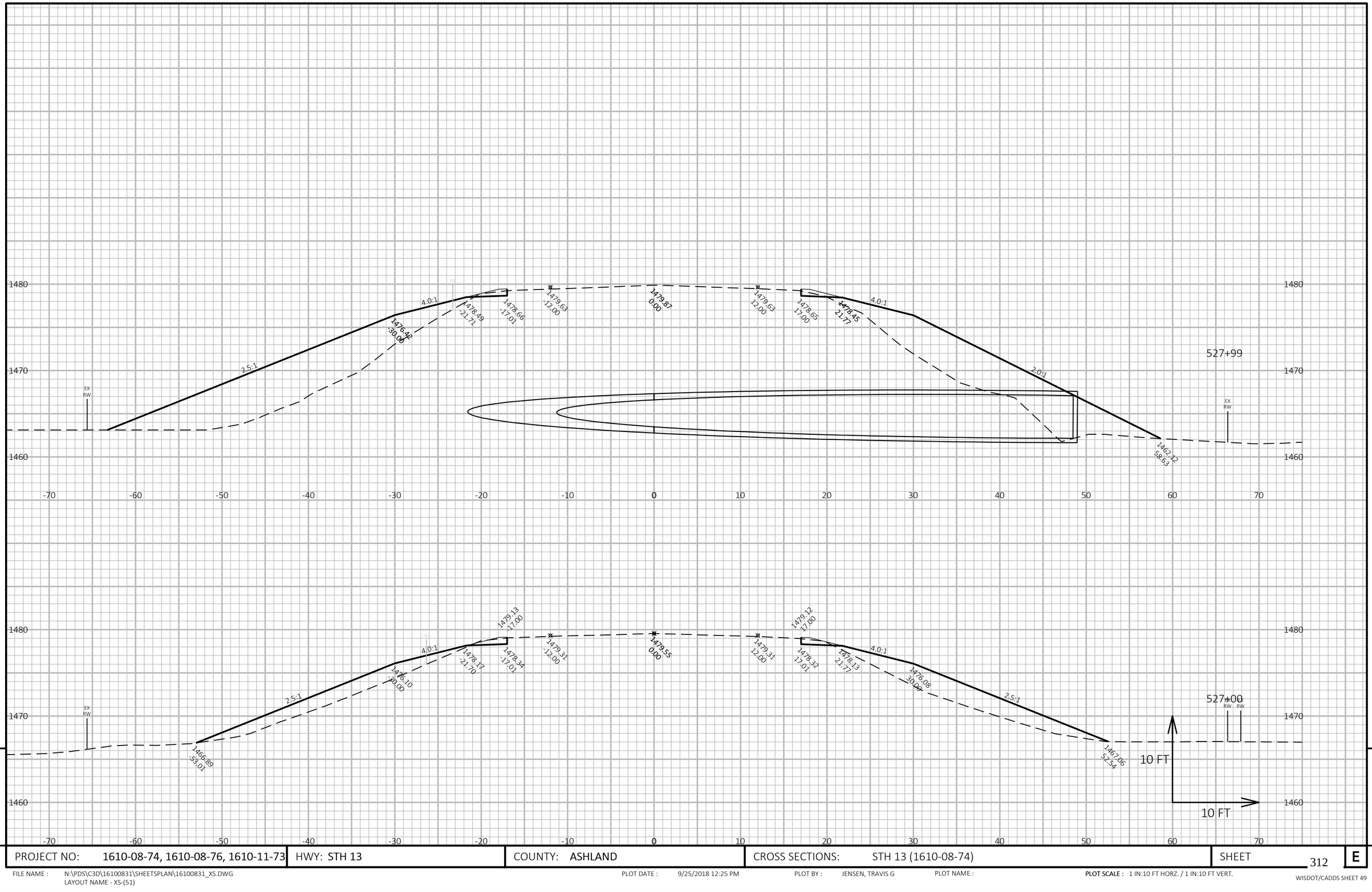
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 311	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(50)

PLOT DATE : 9/25/2018 12:24 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



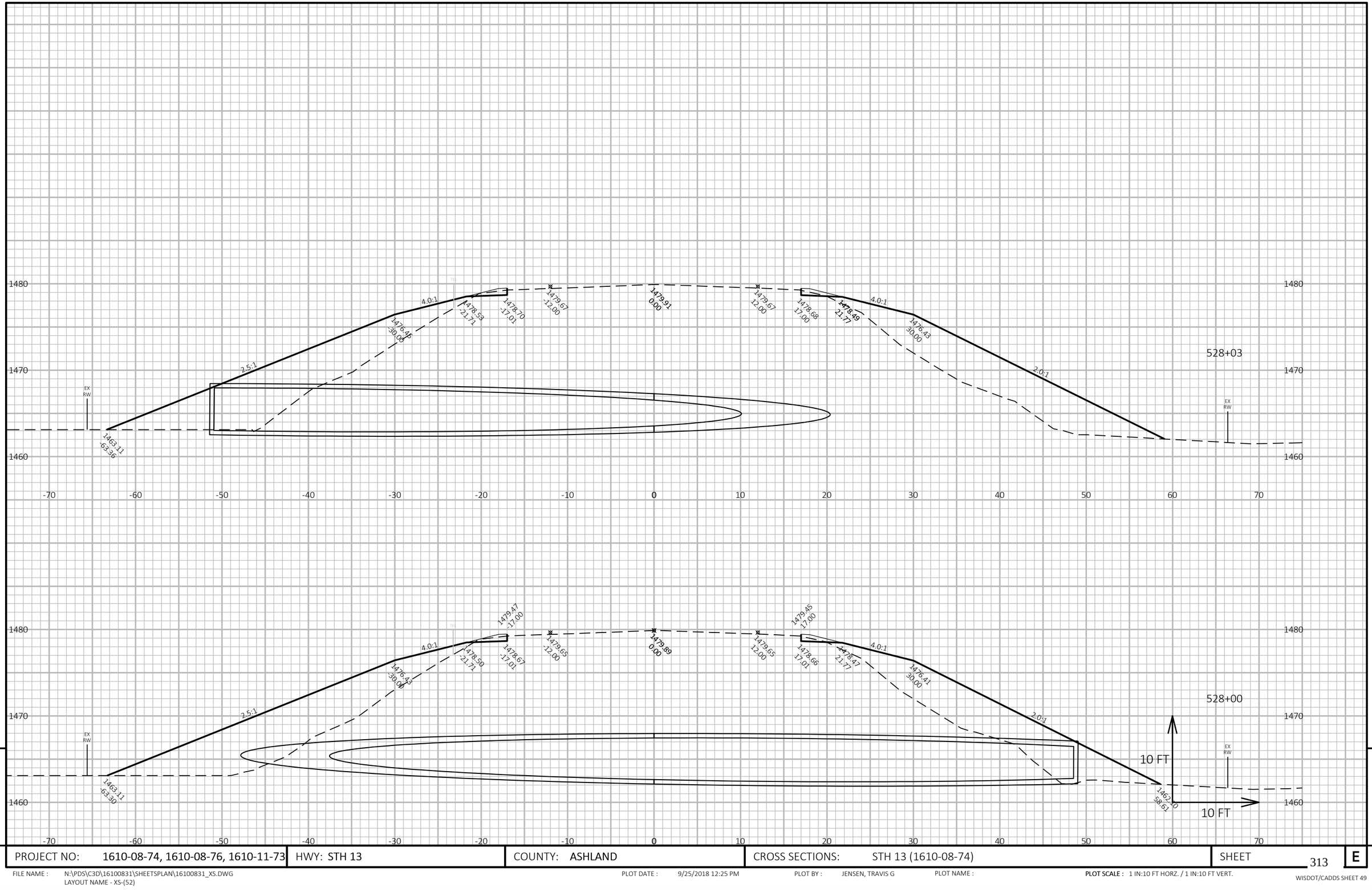
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 312	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(51)

PLOT DATE : 9/25/2018 12:25 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



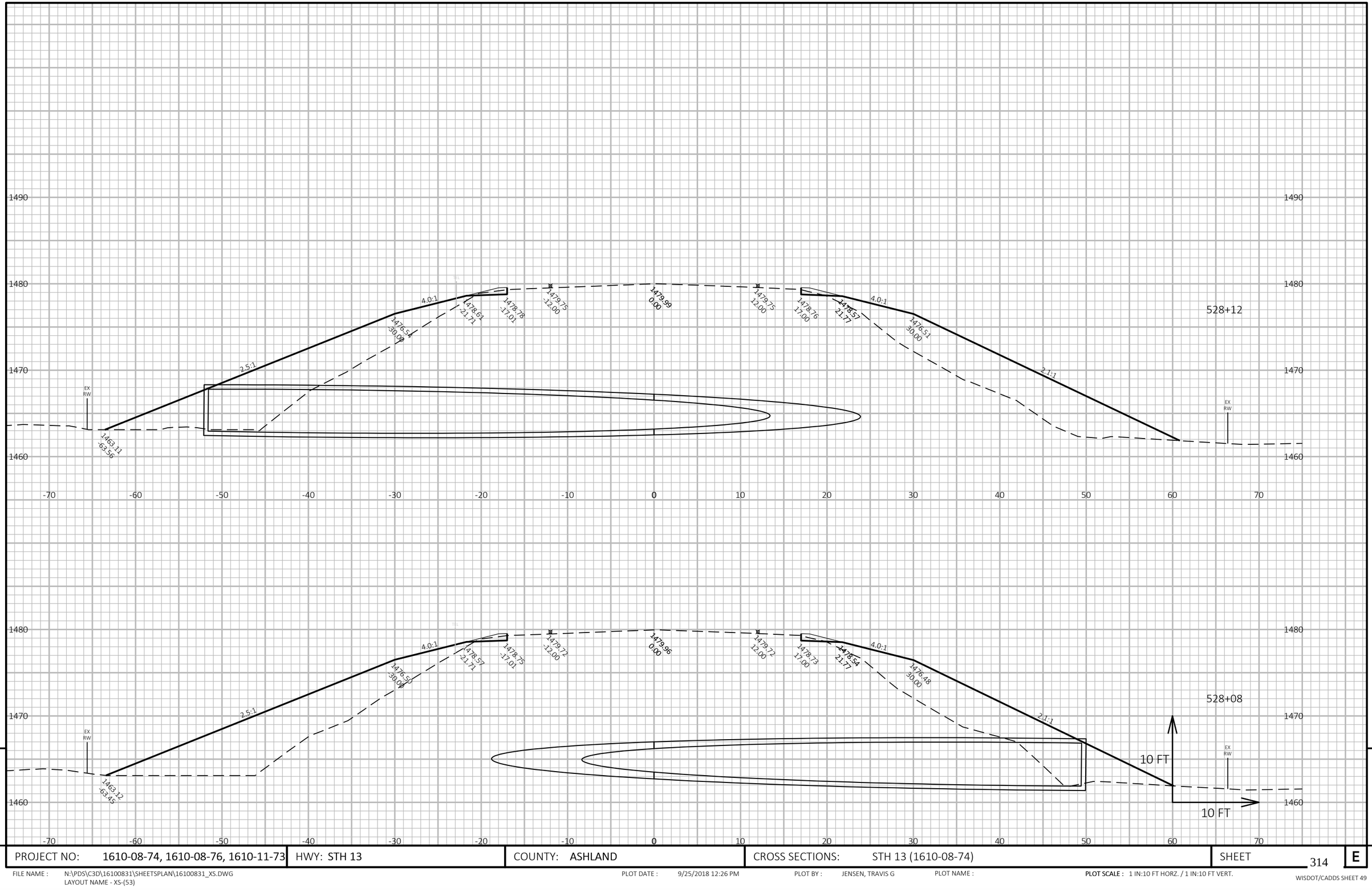
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 313	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(52)

PLOT DATE : 9/25/2018 12:25 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

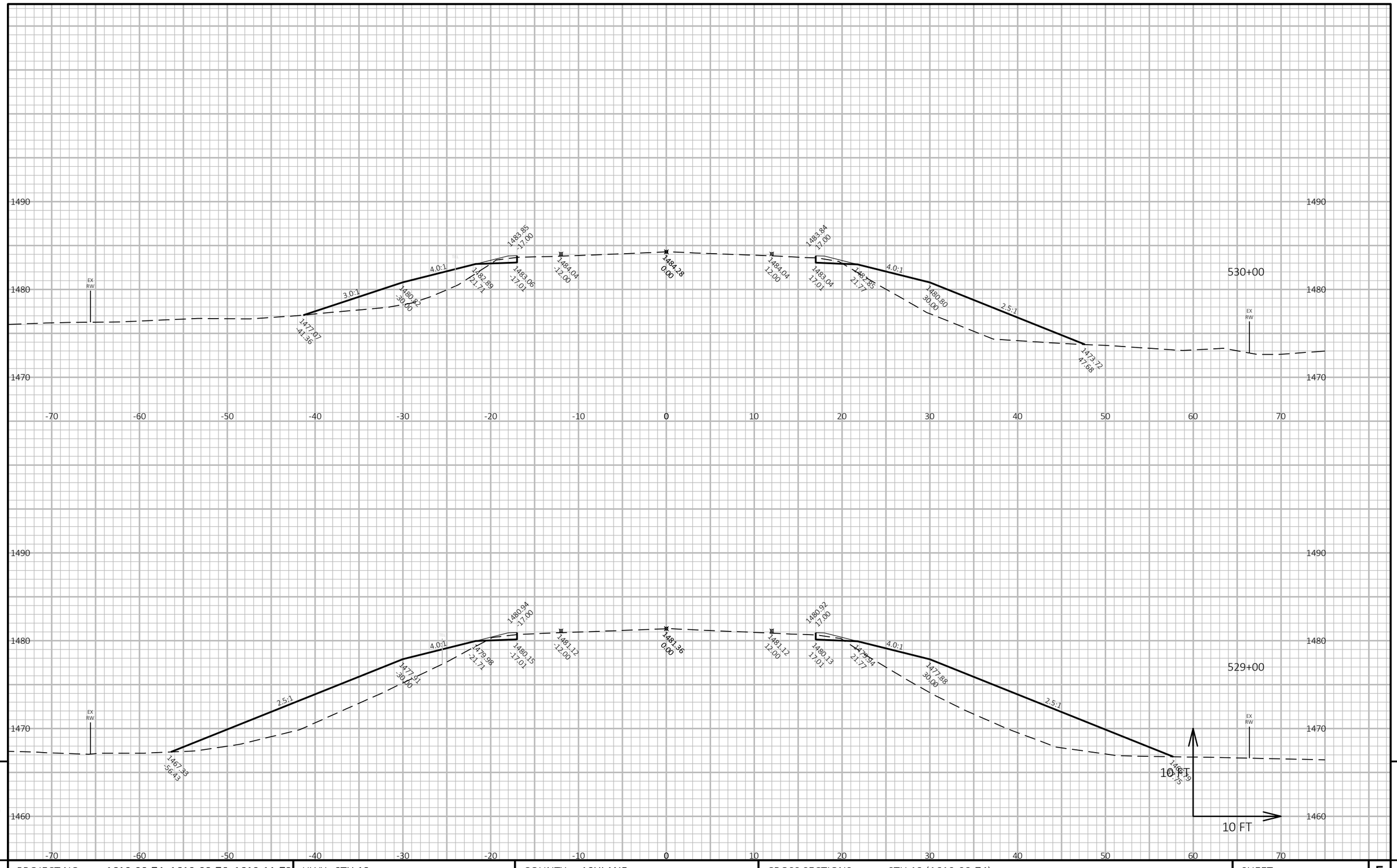
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 314	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(53)

PLOT DATE : 9/25/2018 12:26 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

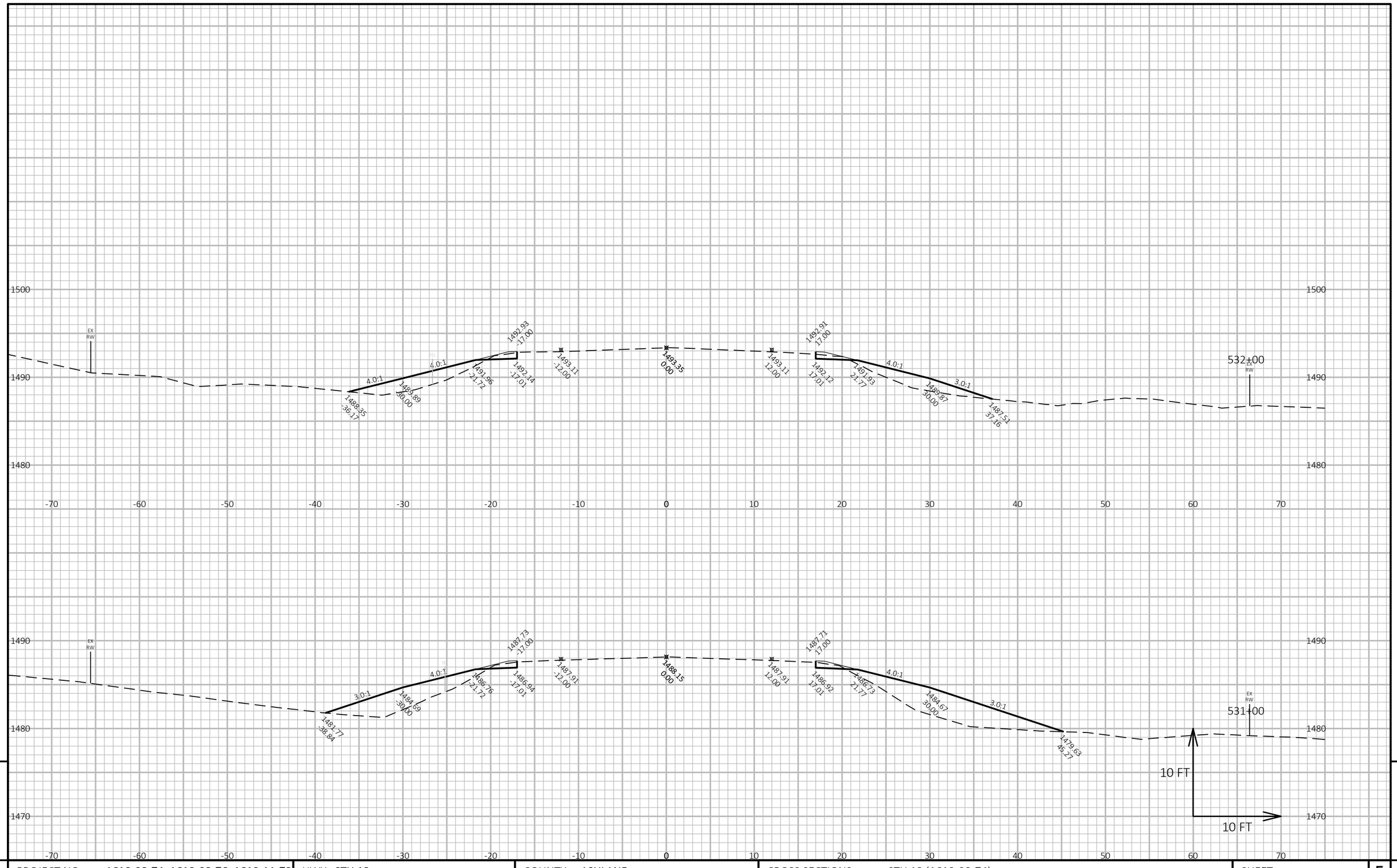


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 315	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(54)

PLOT DATE : 9/25/2018 12:26 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

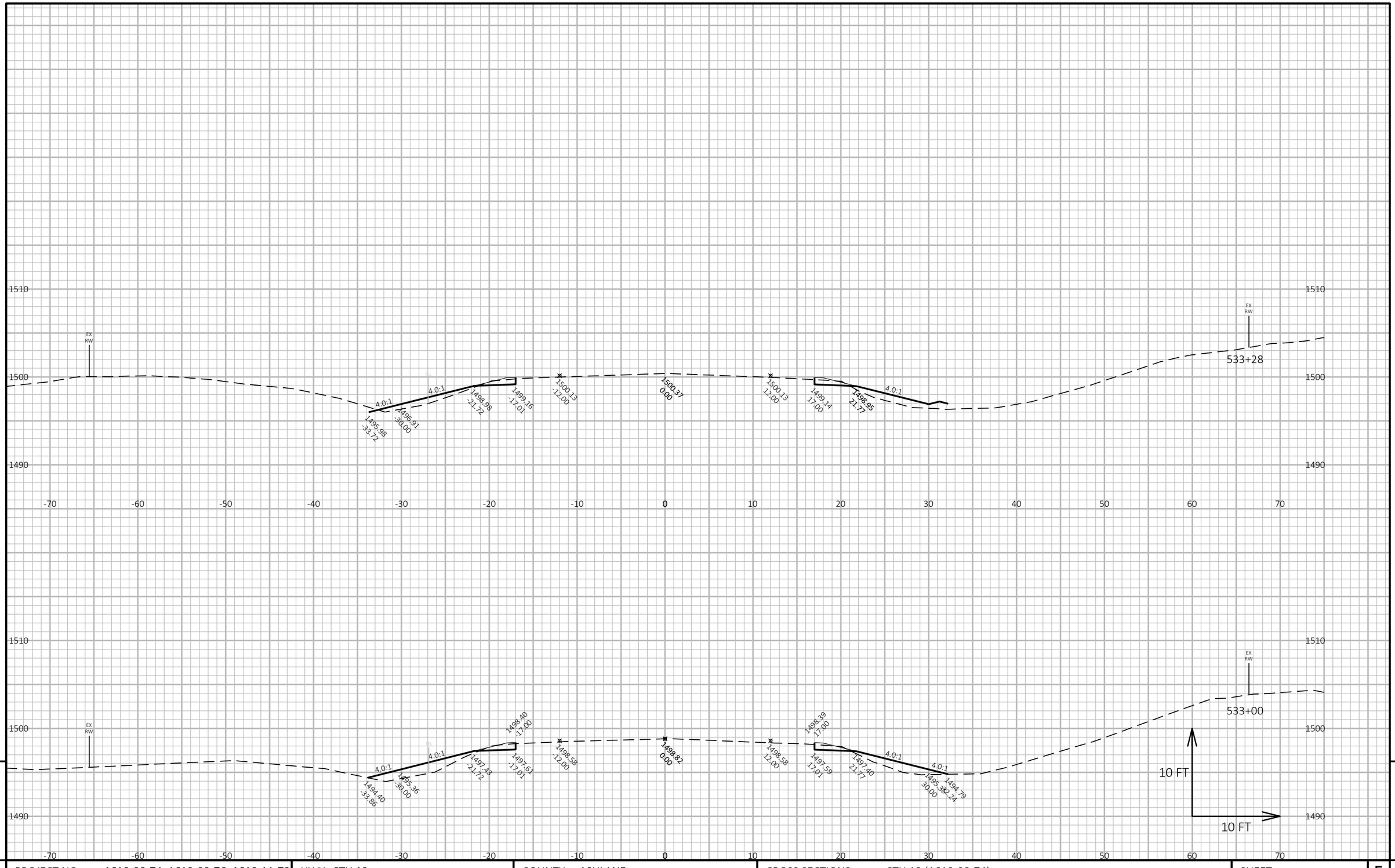


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 316	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(55)

PLOT DATE : 9/25/2018 12:27 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



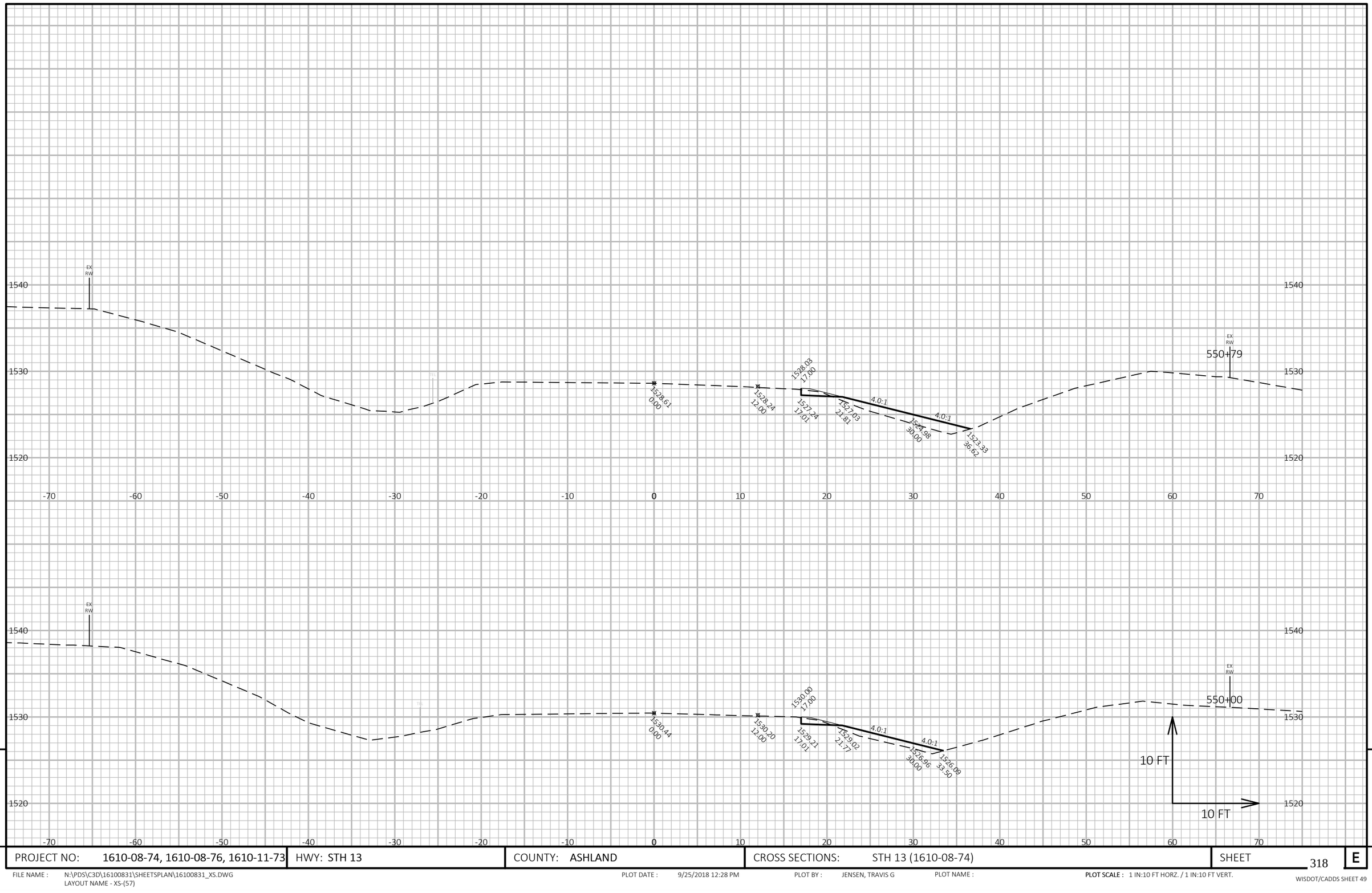
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 317	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(56)

PLOT DATE : 9/25/2018 12:27 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

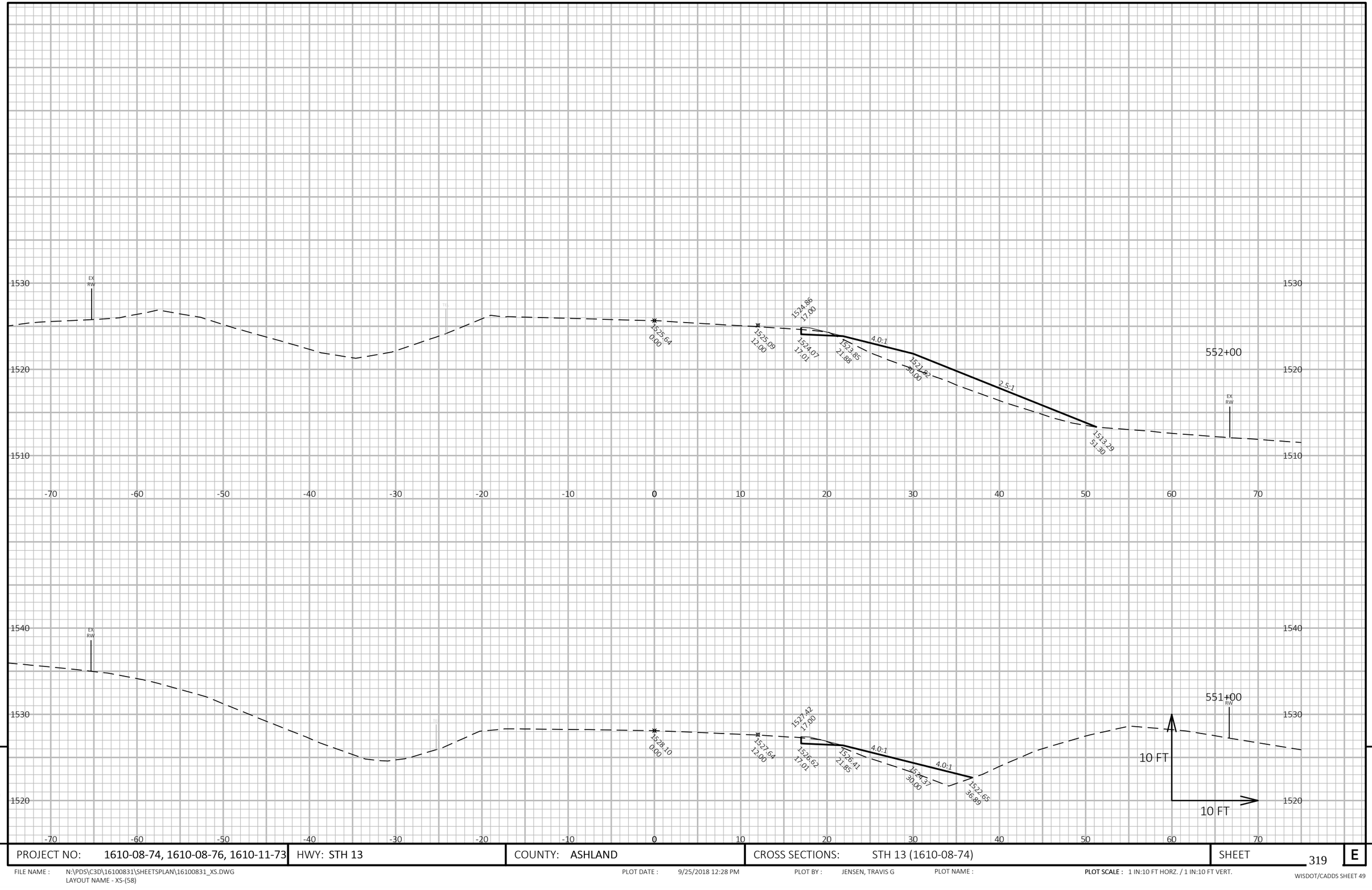
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 318	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(57)

PLOT DATE : 9/25/2018 12:28 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

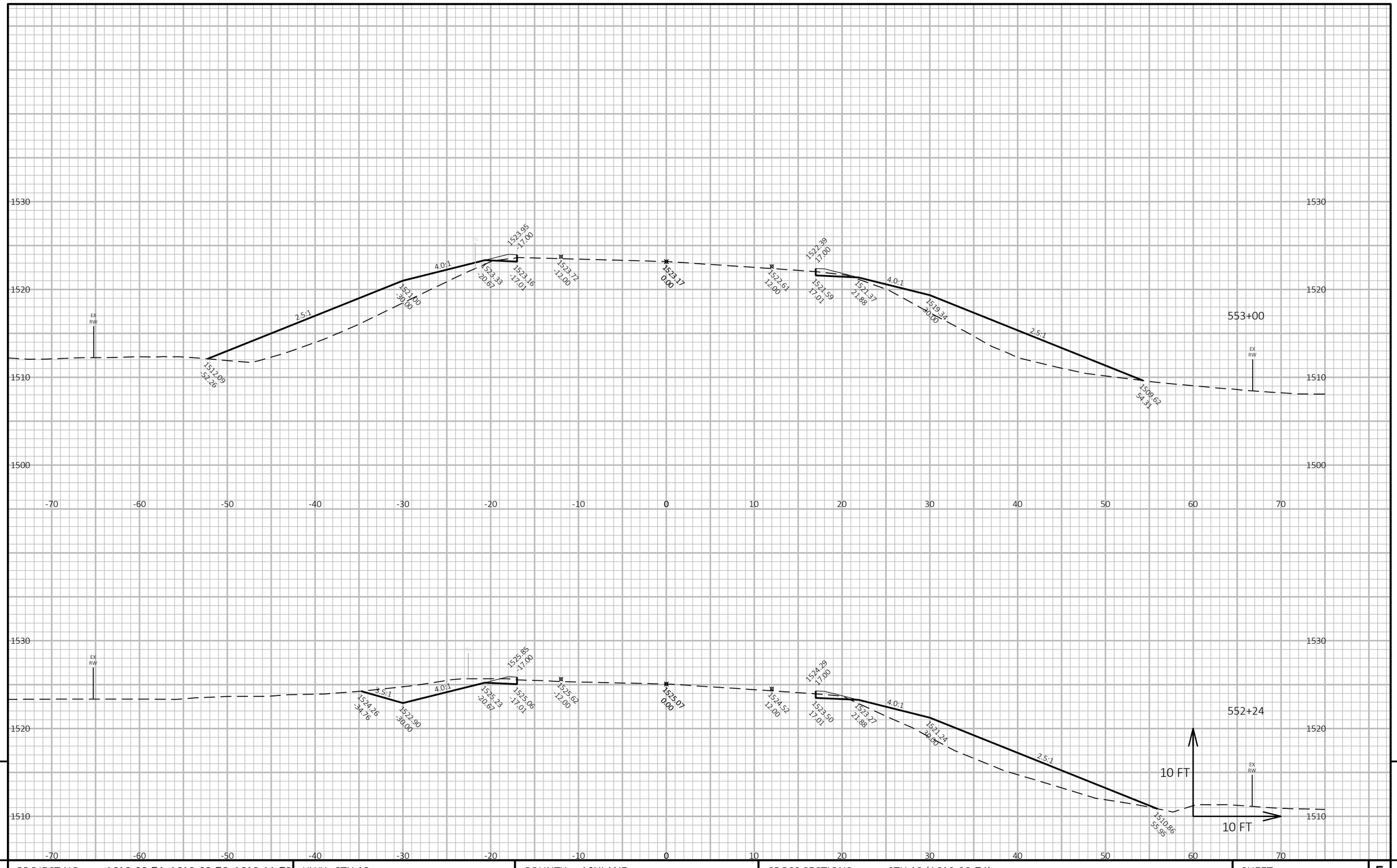
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 319	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(58)

PLOT DATE : 9/25/2018 12:28 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 320	E

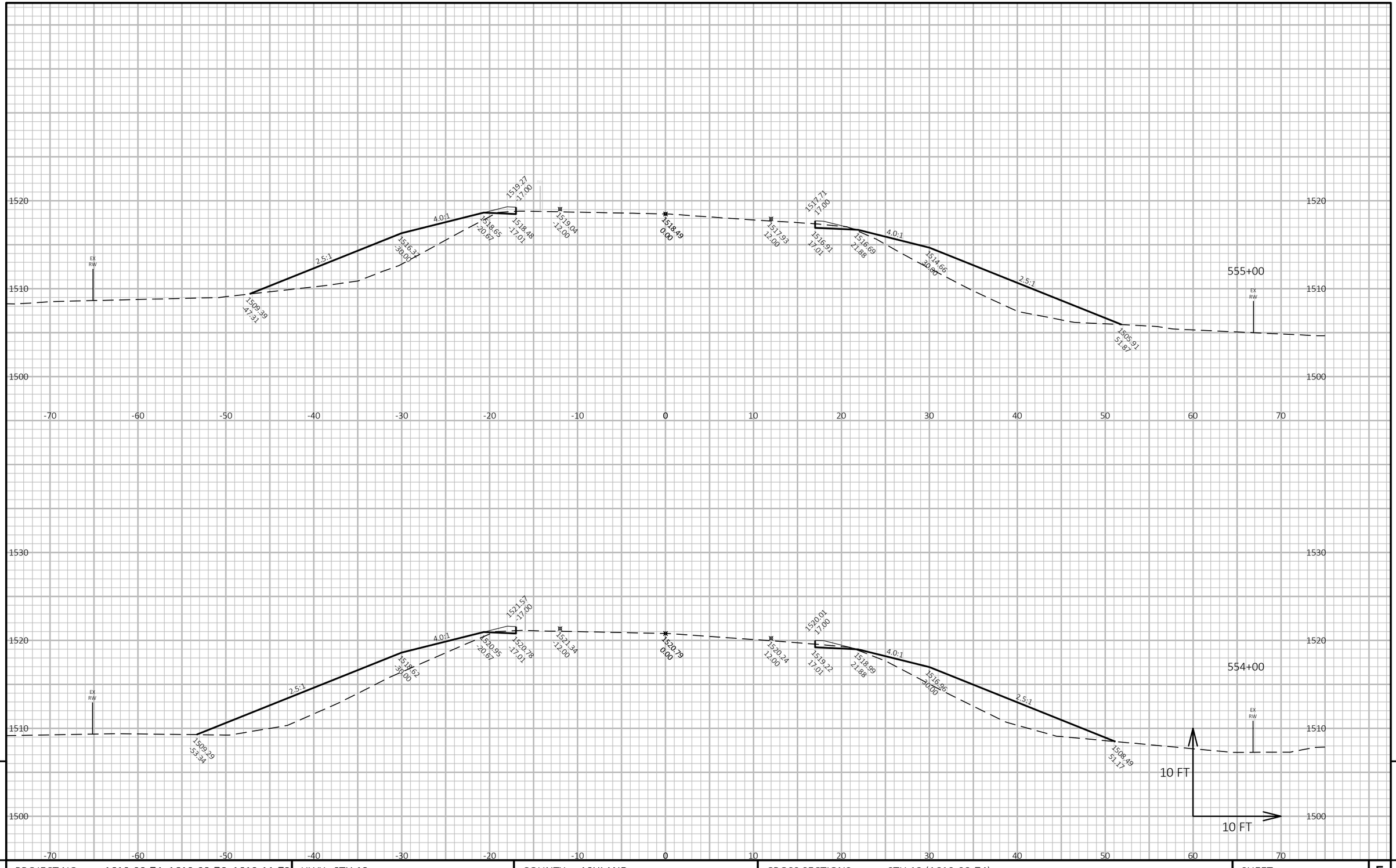
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(59)

PLOT DATE : 9/25/2018 12:29 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49

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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 321 E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(60)

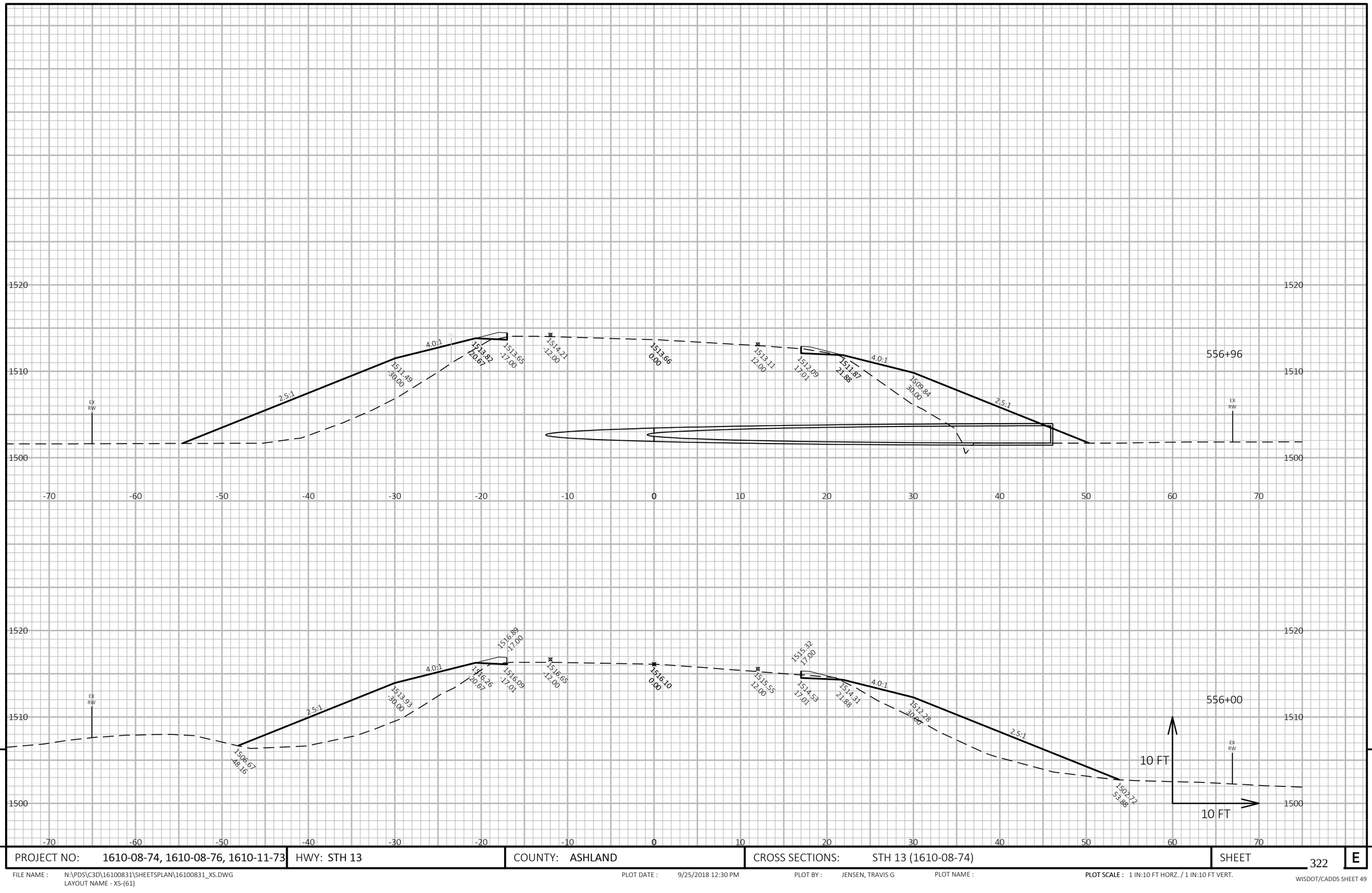
PLOT DATE : 9/25/2018 12:29 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49

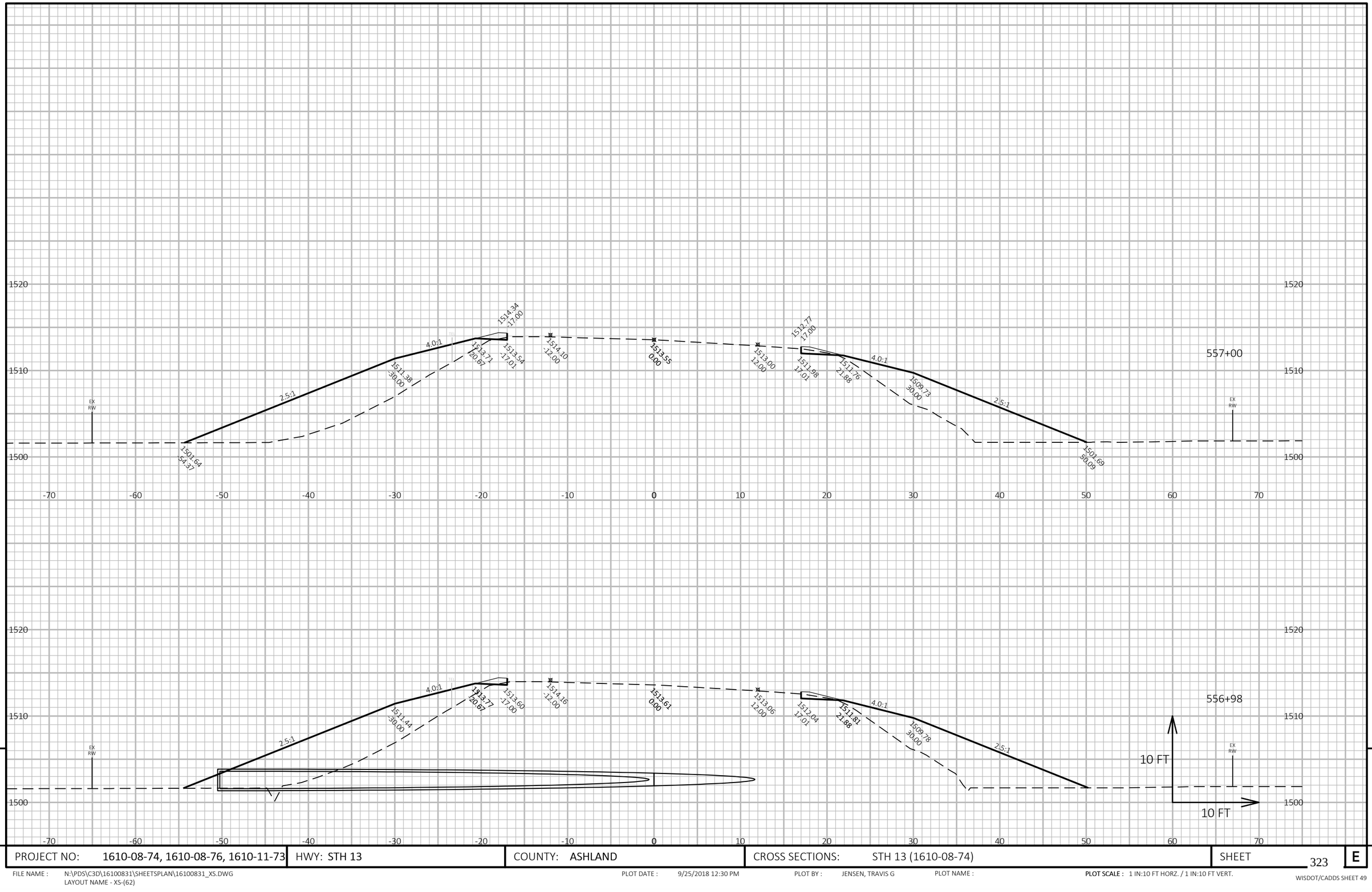


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 322	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(61)

PLOT DATE : 9/25/2018 12:30 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



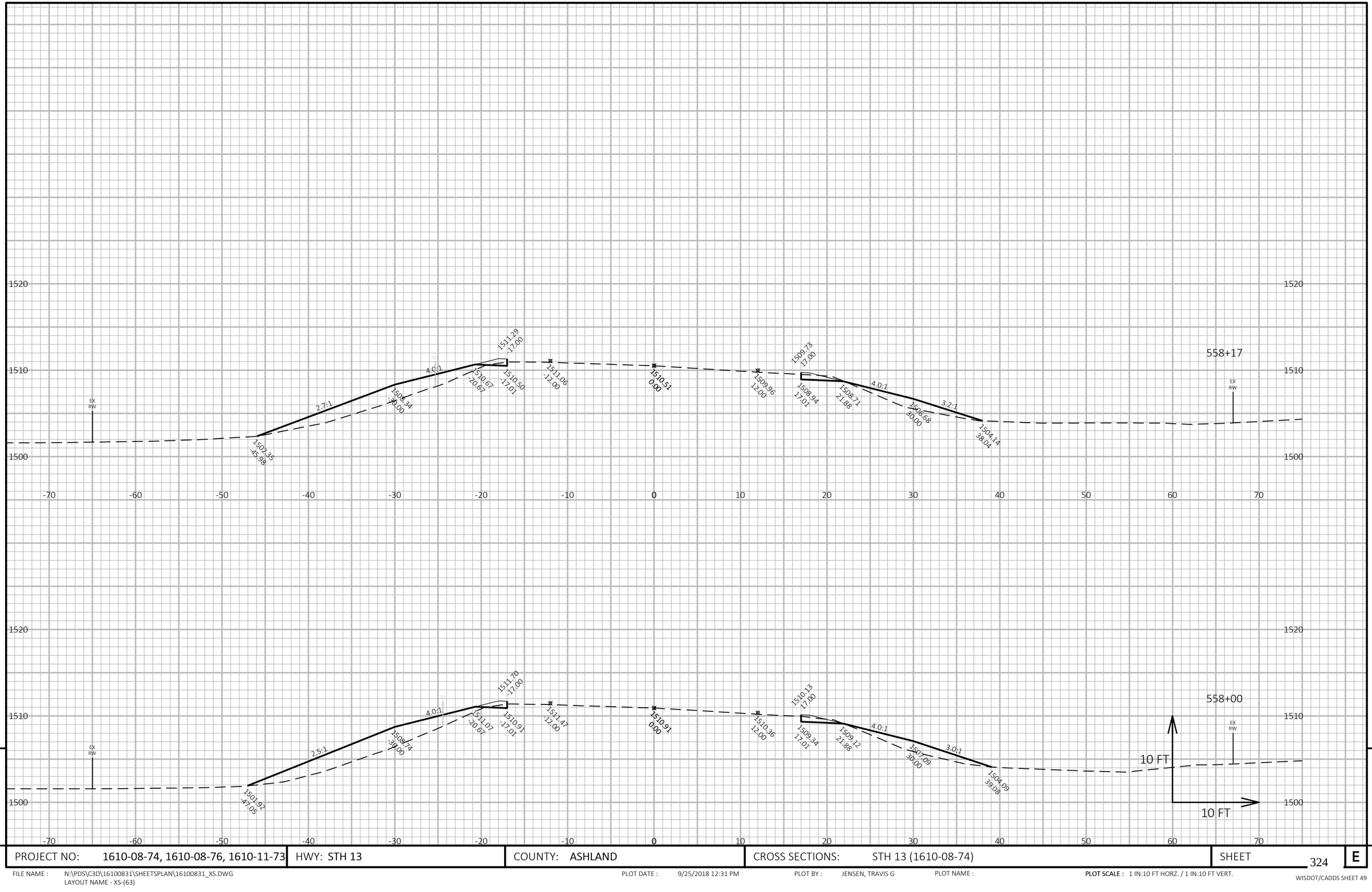
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 323	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(62)

PLOT DATE : 9/25/2018 12:30 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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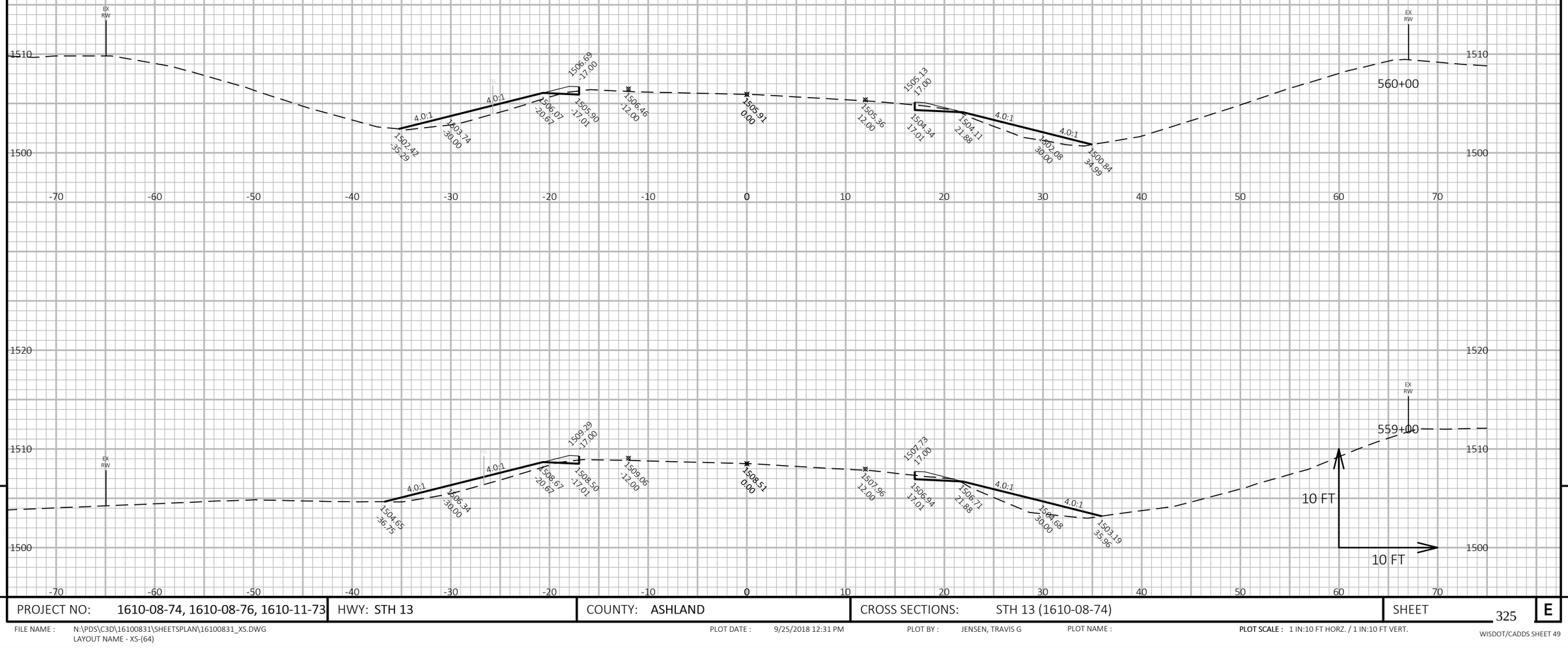
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 324	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(63)

PLOT DATE : 9/25/2018 12:31 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

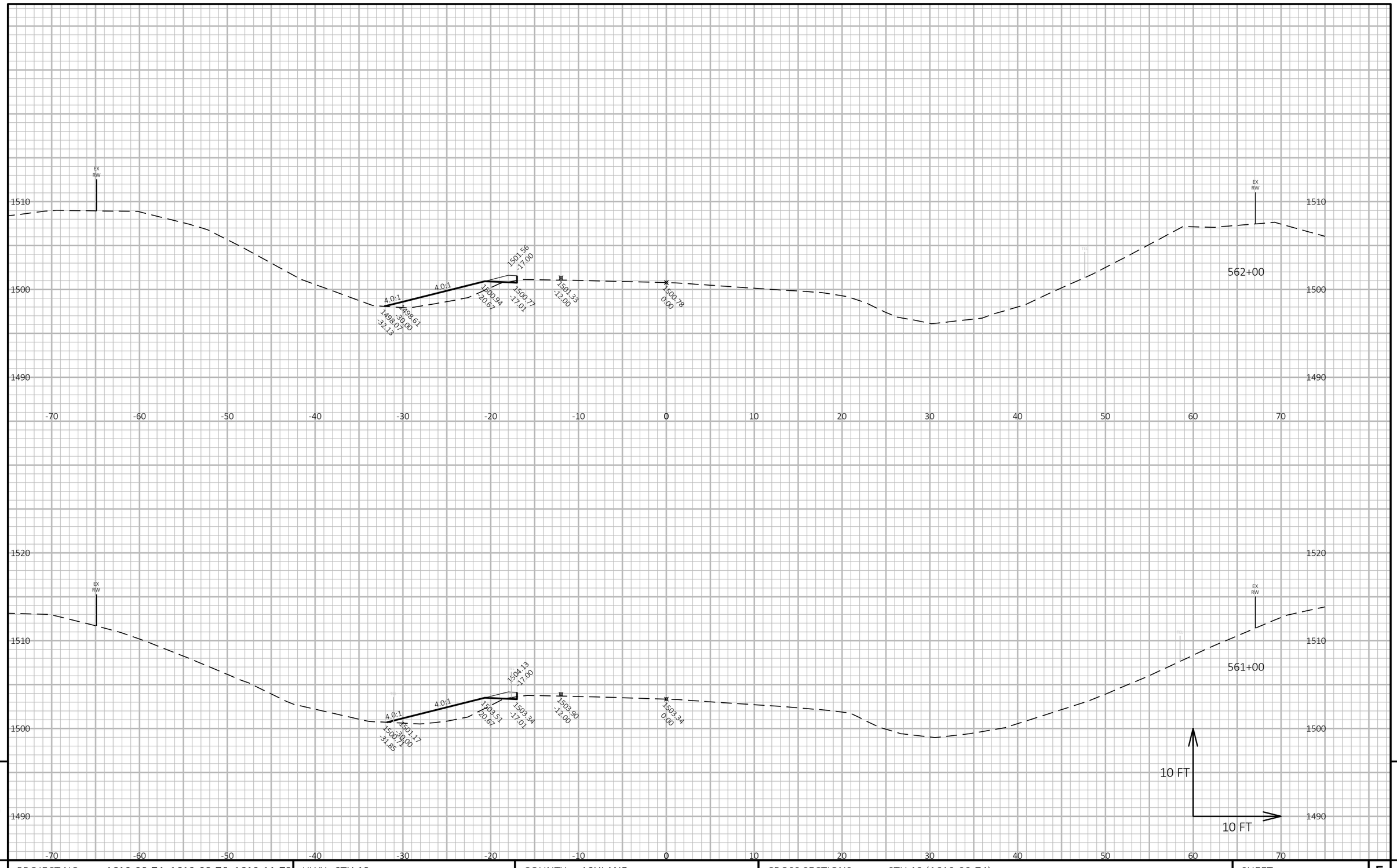


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 325	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(64)

PLOT DATE : 9/25/2018 12:31 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 326	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(65)

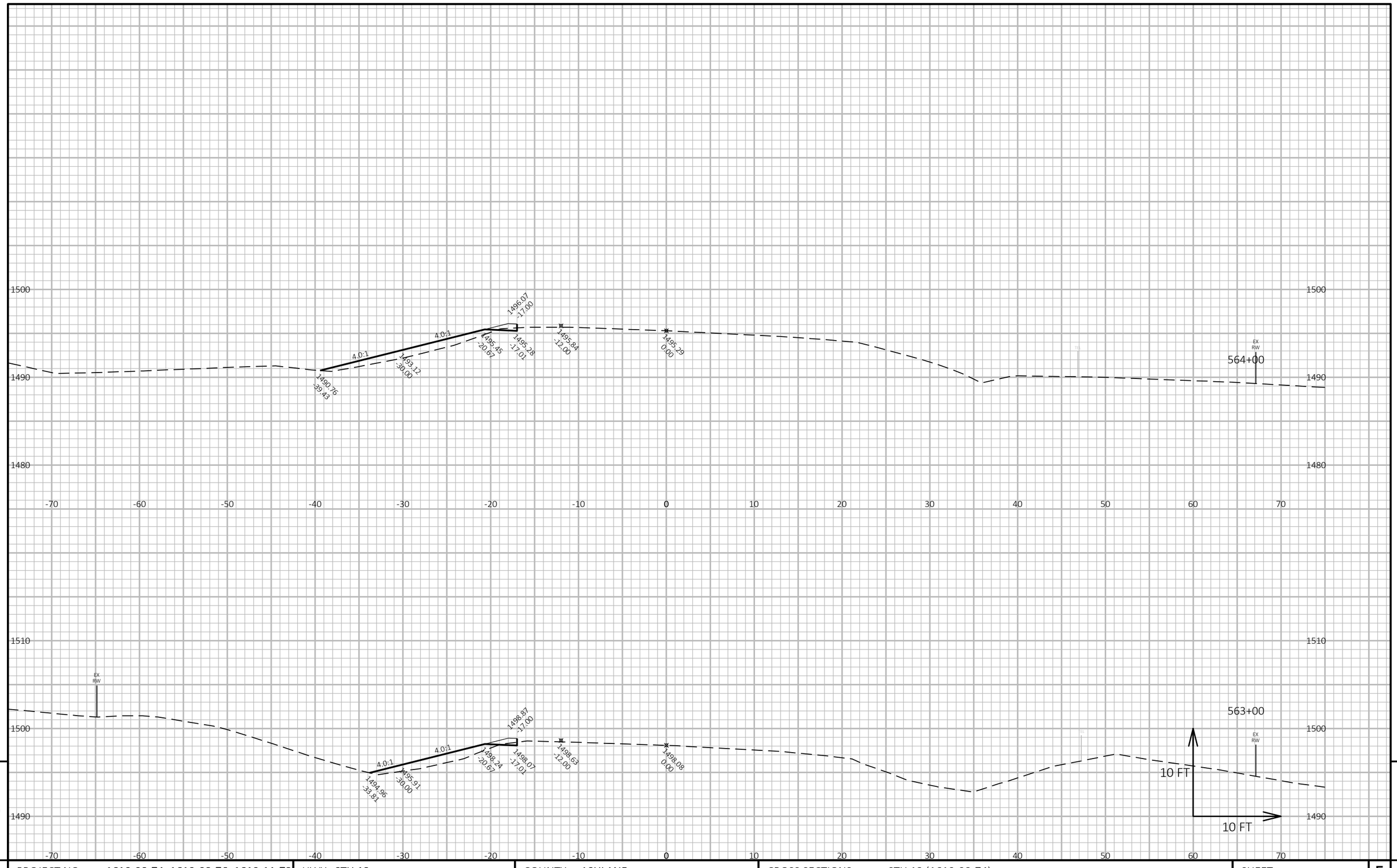
PLOT DATE : 9/25/2018 12:32 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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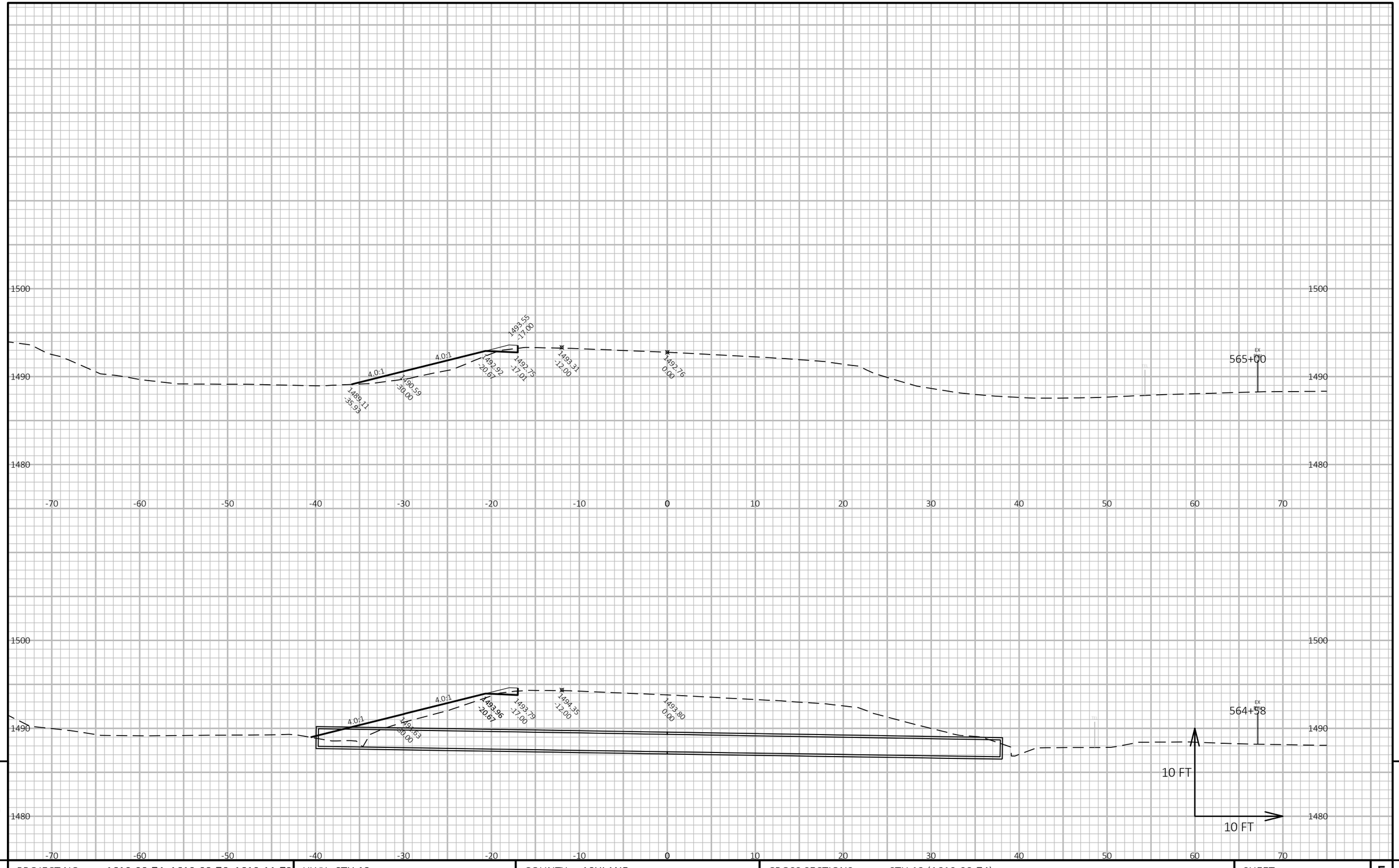
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 327	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(66)

PLOT DATE : 9/25/2018 12:32 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 328	E

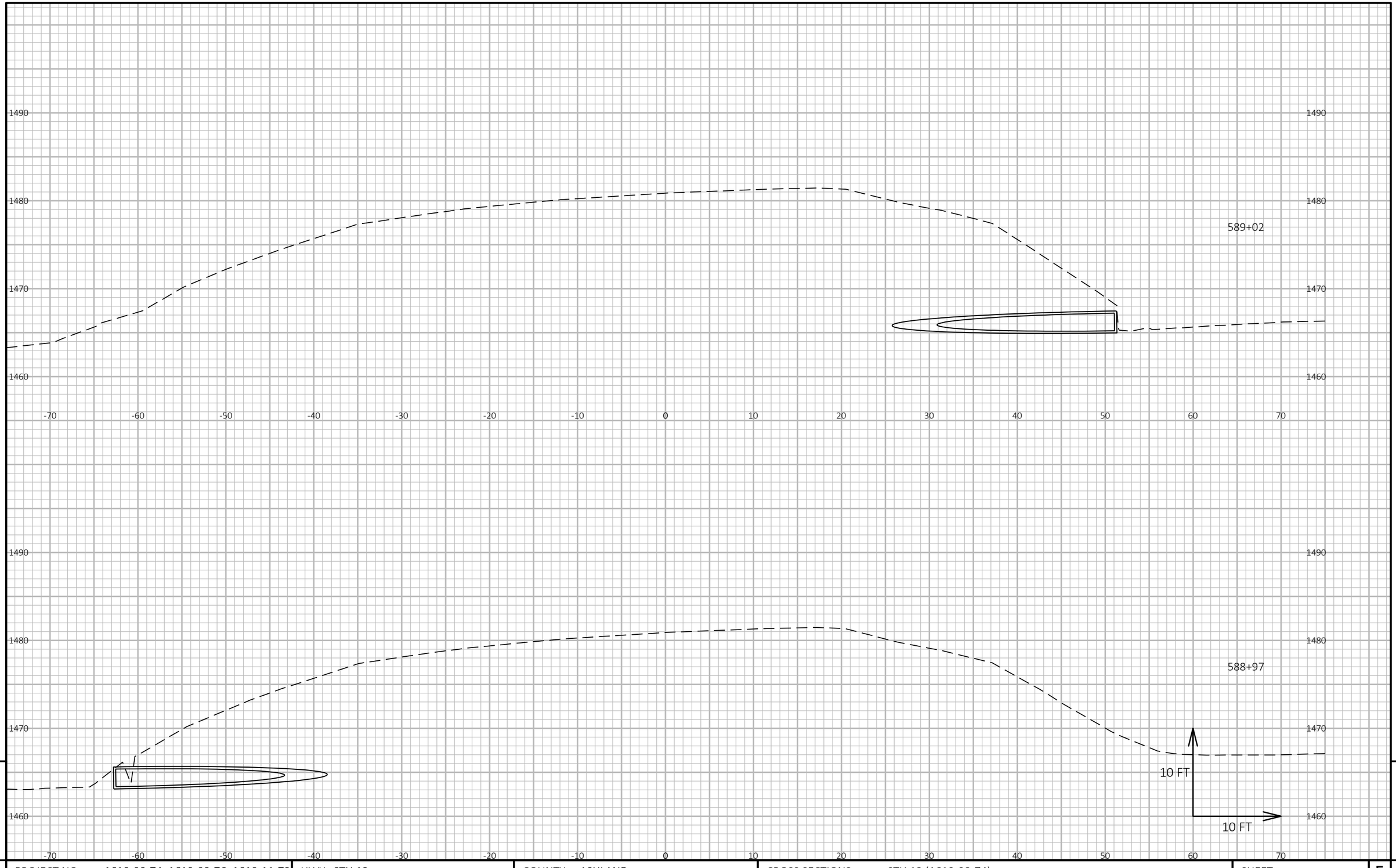
FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(67)

PLOT DATE : 9/25/2018 12:33 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



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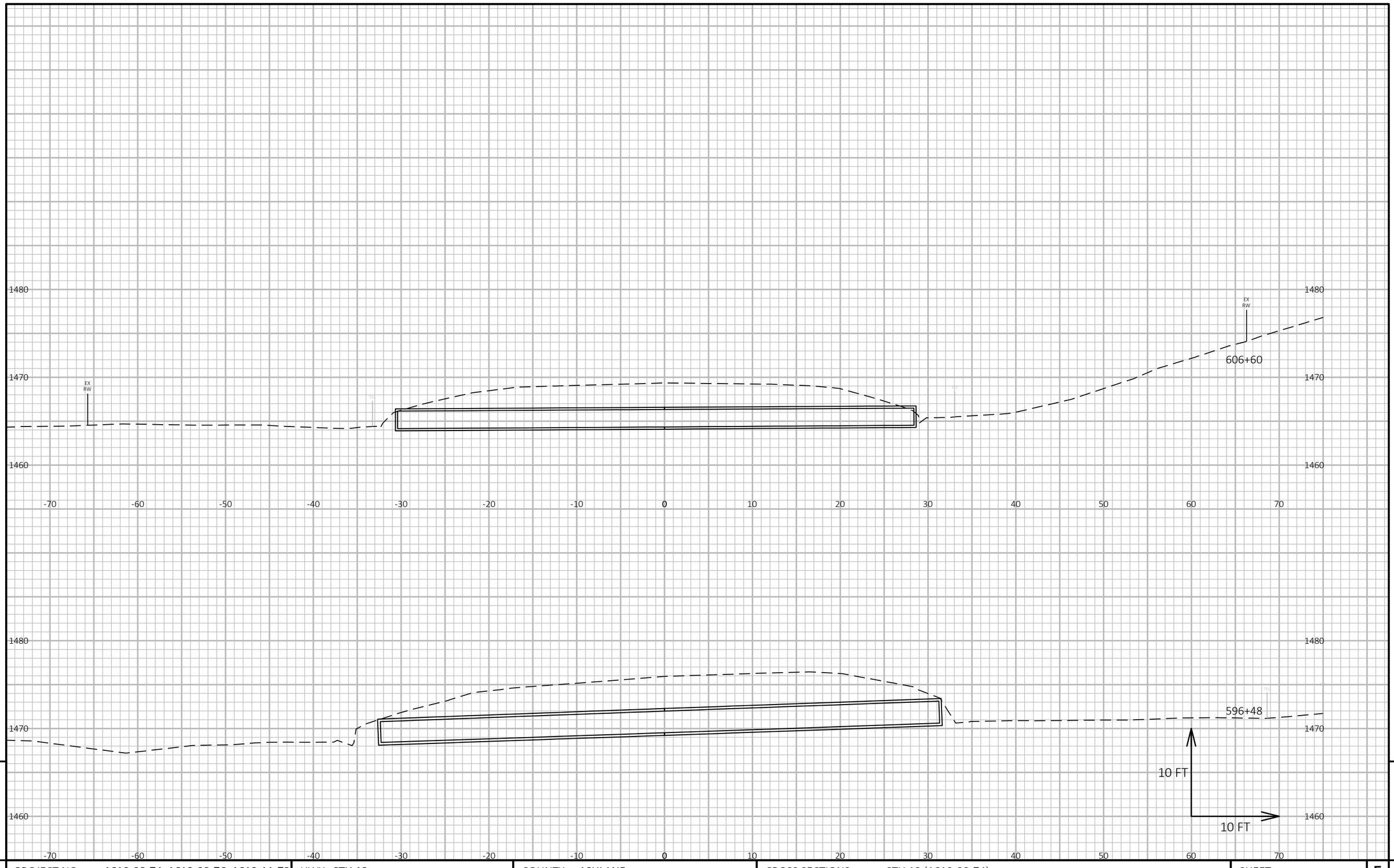
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 329	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(68)

PLOT DATE : 9/25/2018 12:33 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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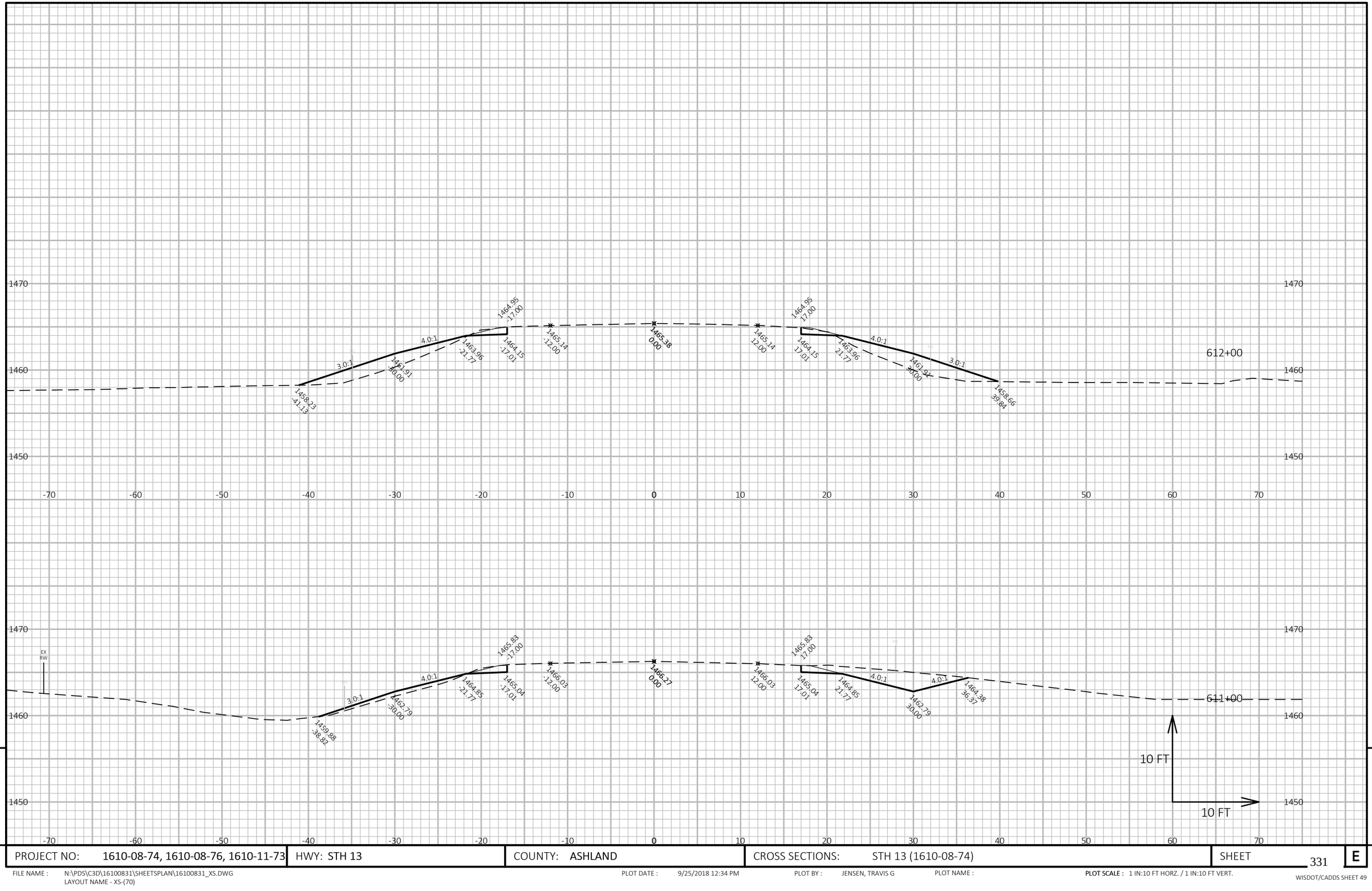
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 330	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(69)

PLOT DATE : 9/25/2018 12:33 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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



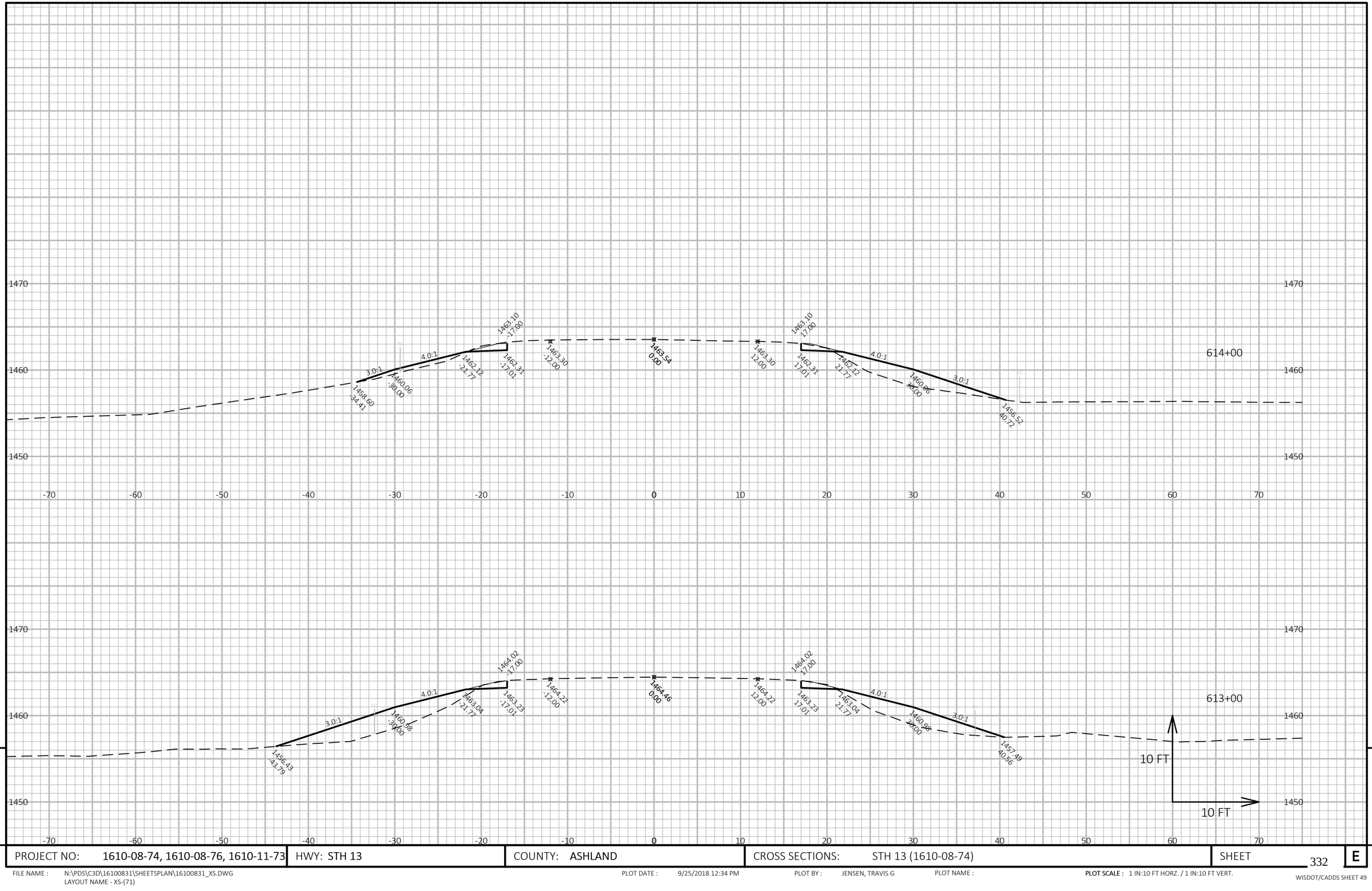
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 331	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(70)

PLOT DATE : 9/25/2018 12:34 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 332	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(71)

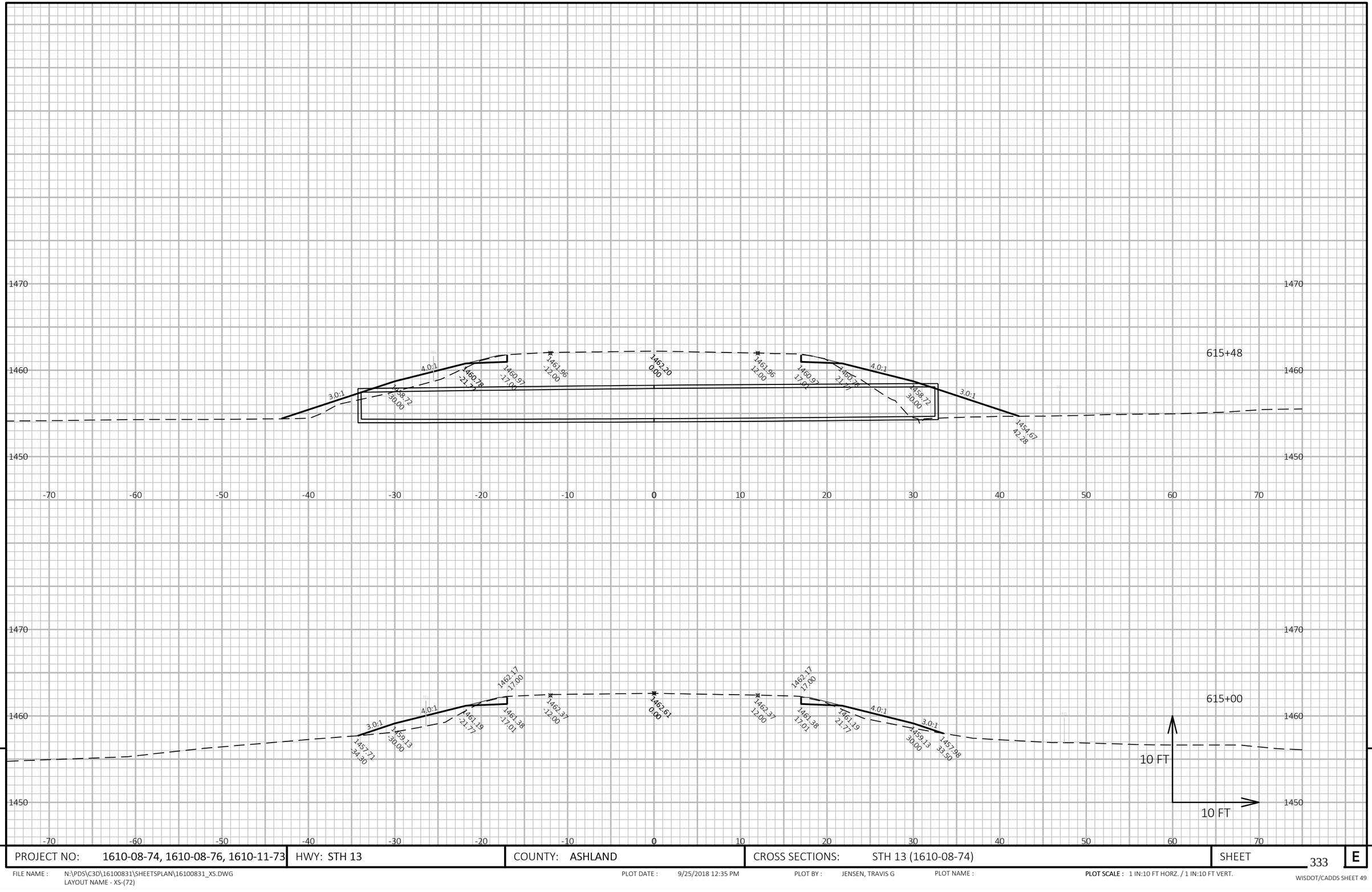
PLOT DATE : 9/25/2018 12:34 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49

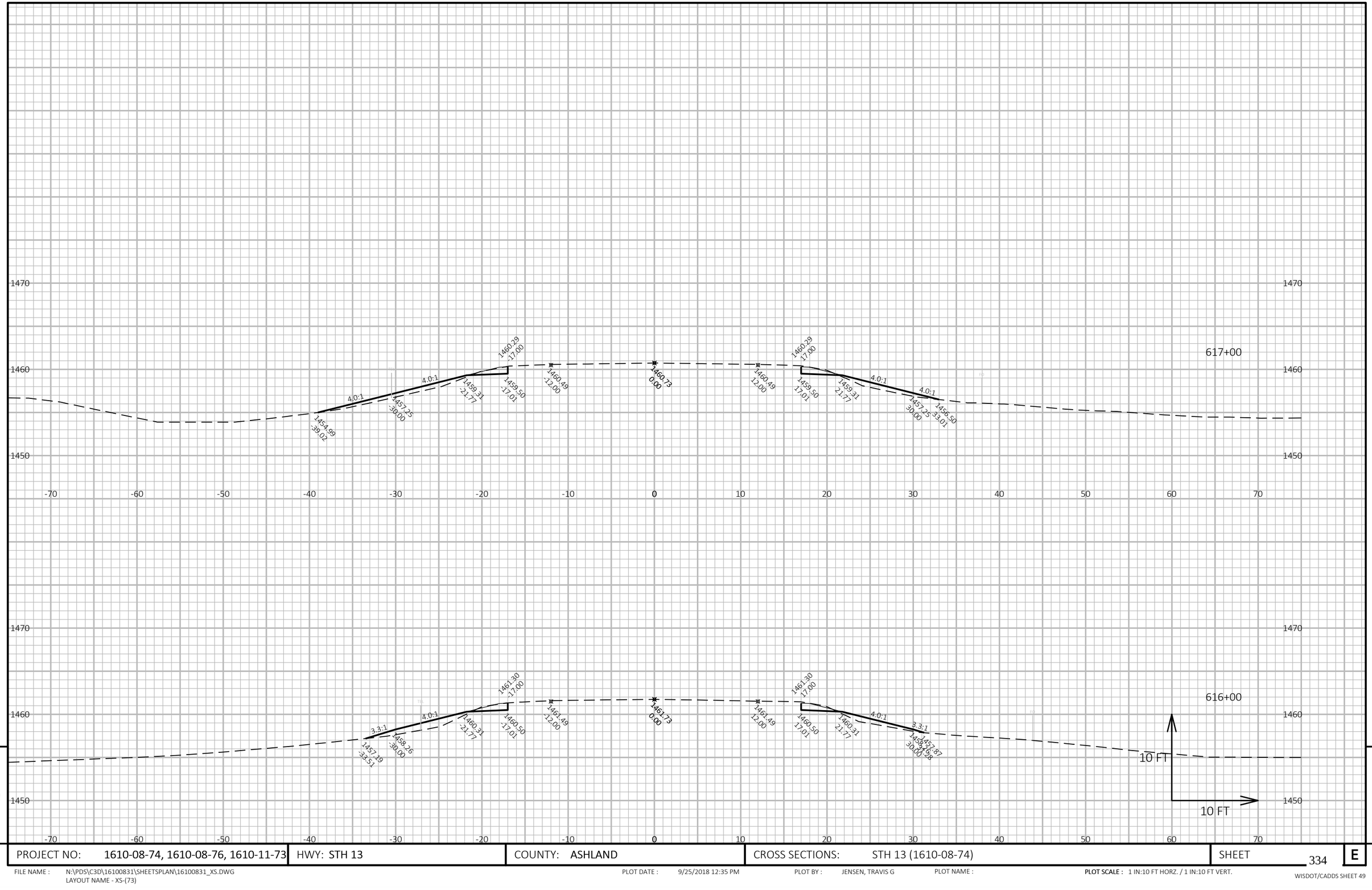


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 333	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(72)

PLOT DATE : 9/25/2018 12:35 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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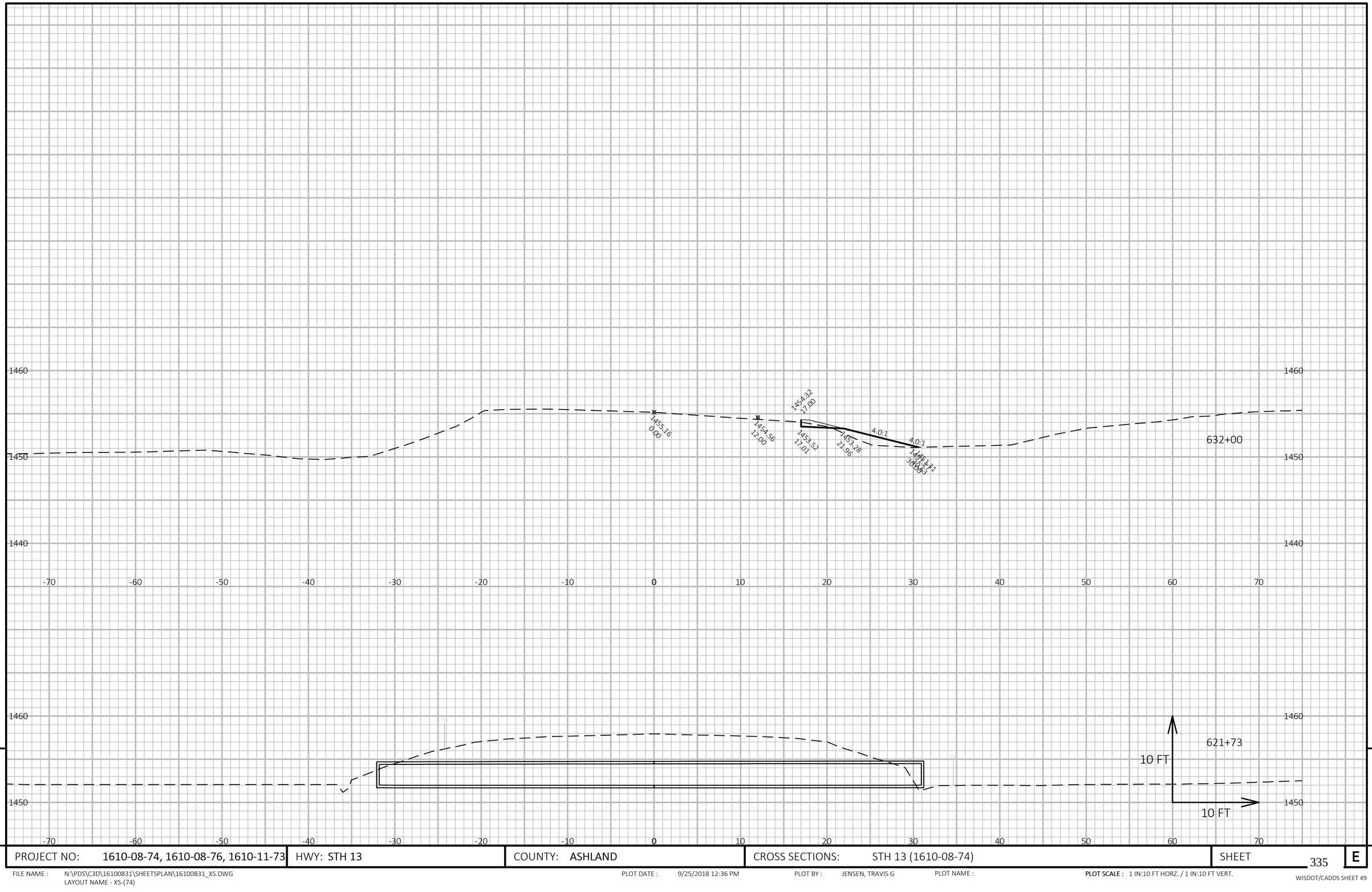
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 334	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(73)

PLOT DATE : 9/25/2018 12:35 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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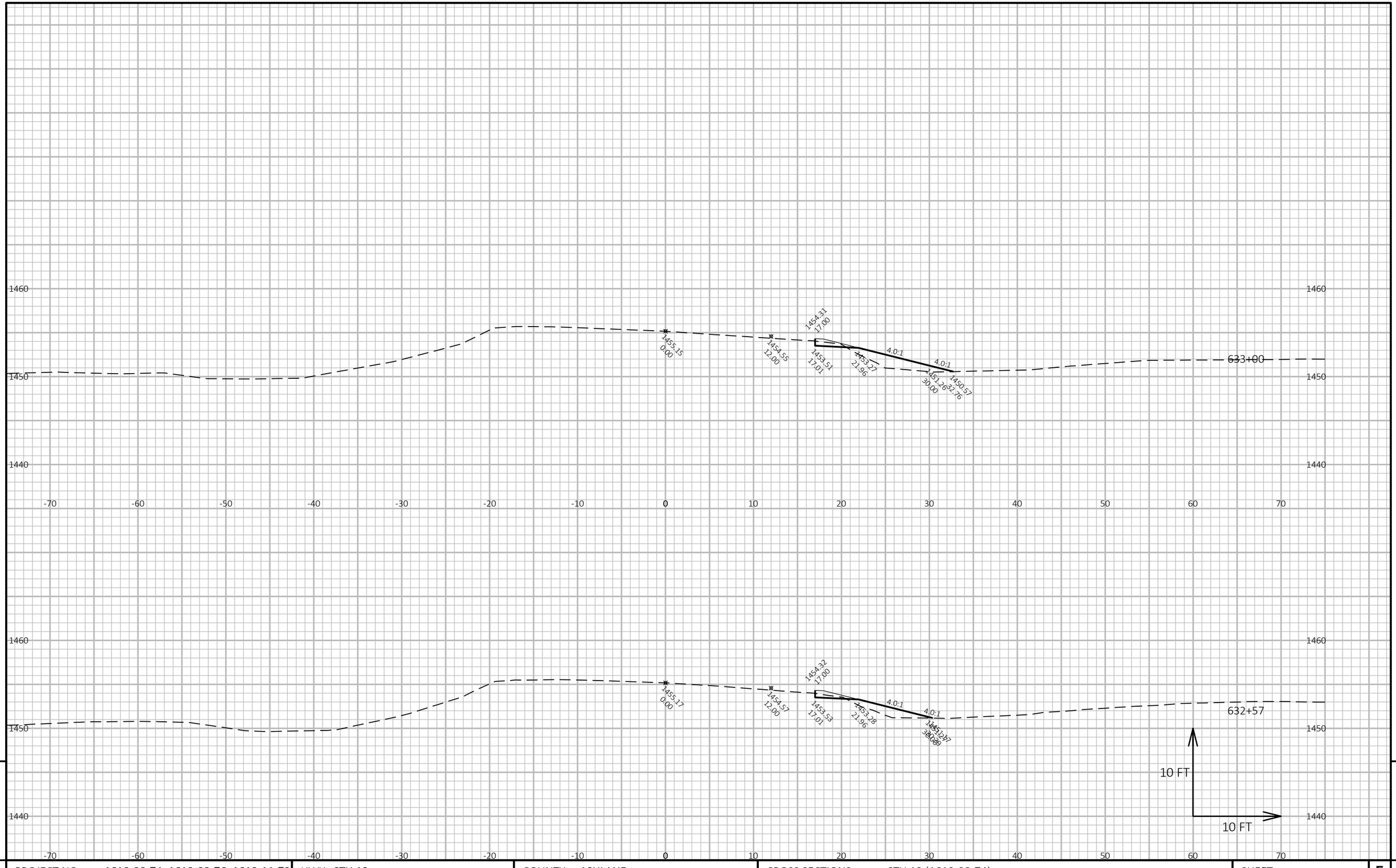
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 335	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(74)

PLOT DATE : 9/25/2018 12:36 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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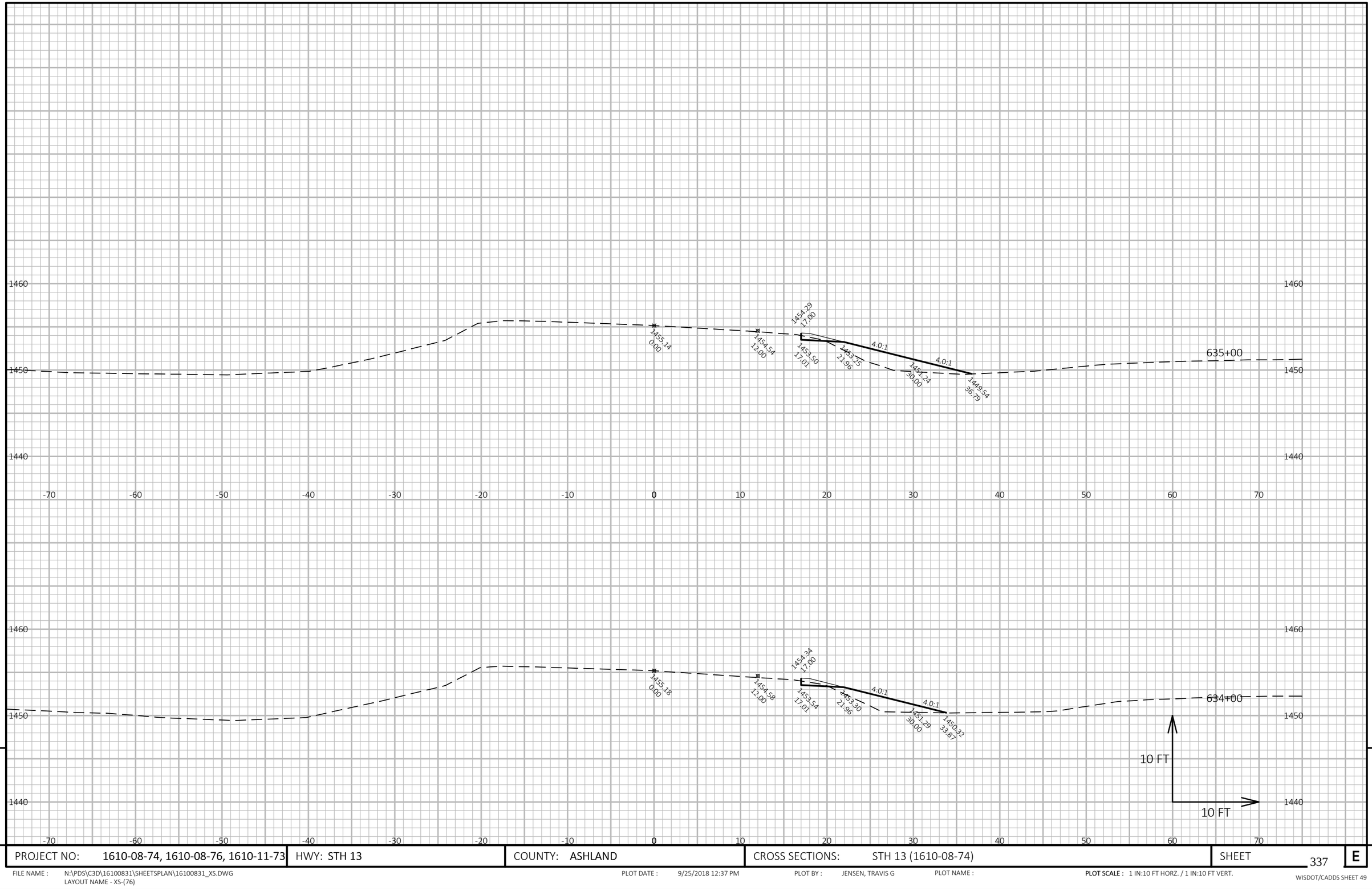
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 336	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(75)

PLOT DATE : 9/25/2018 12:36 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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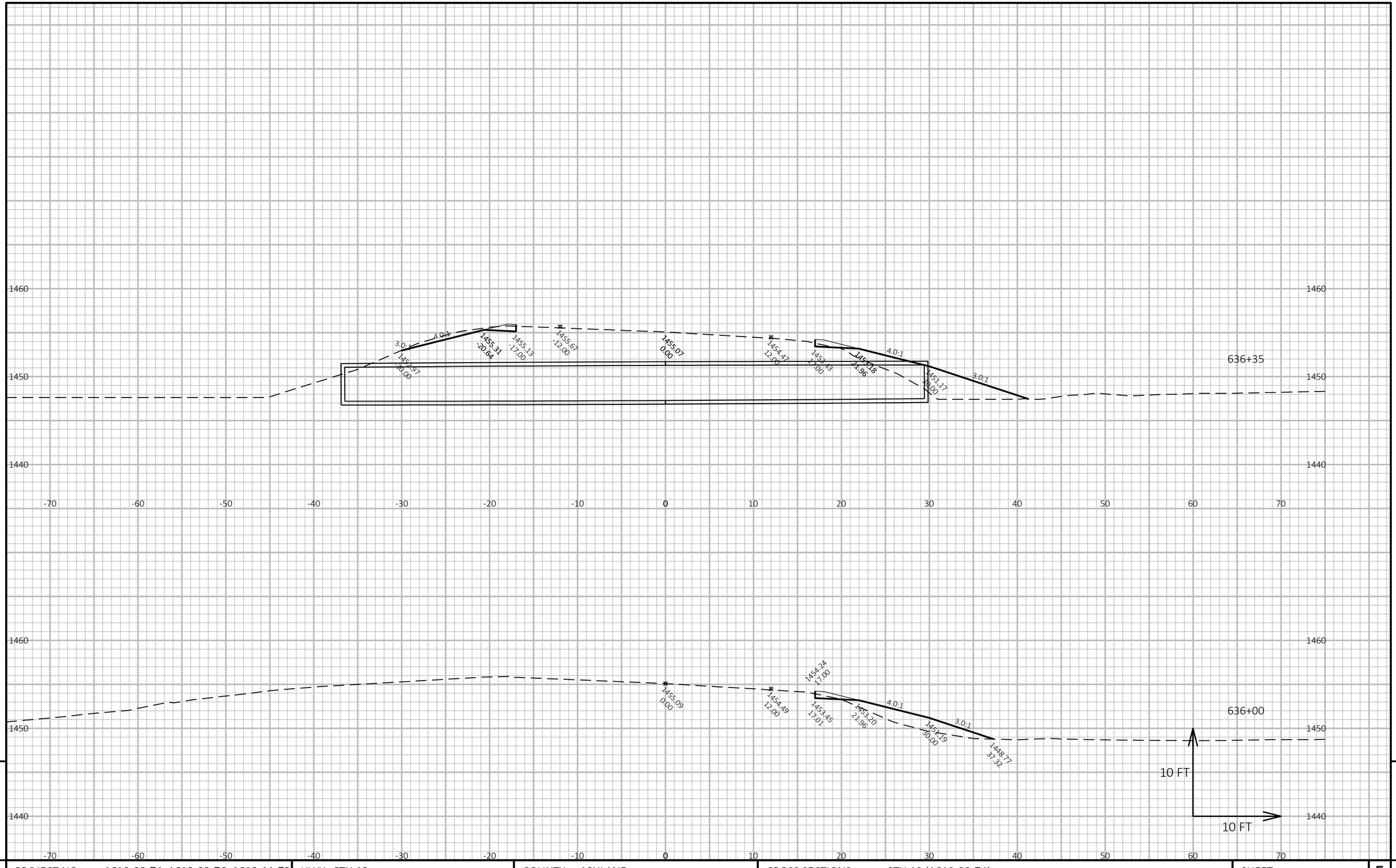
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 337	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(76)

PLOT DATE : 9/25/2018 12:37 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



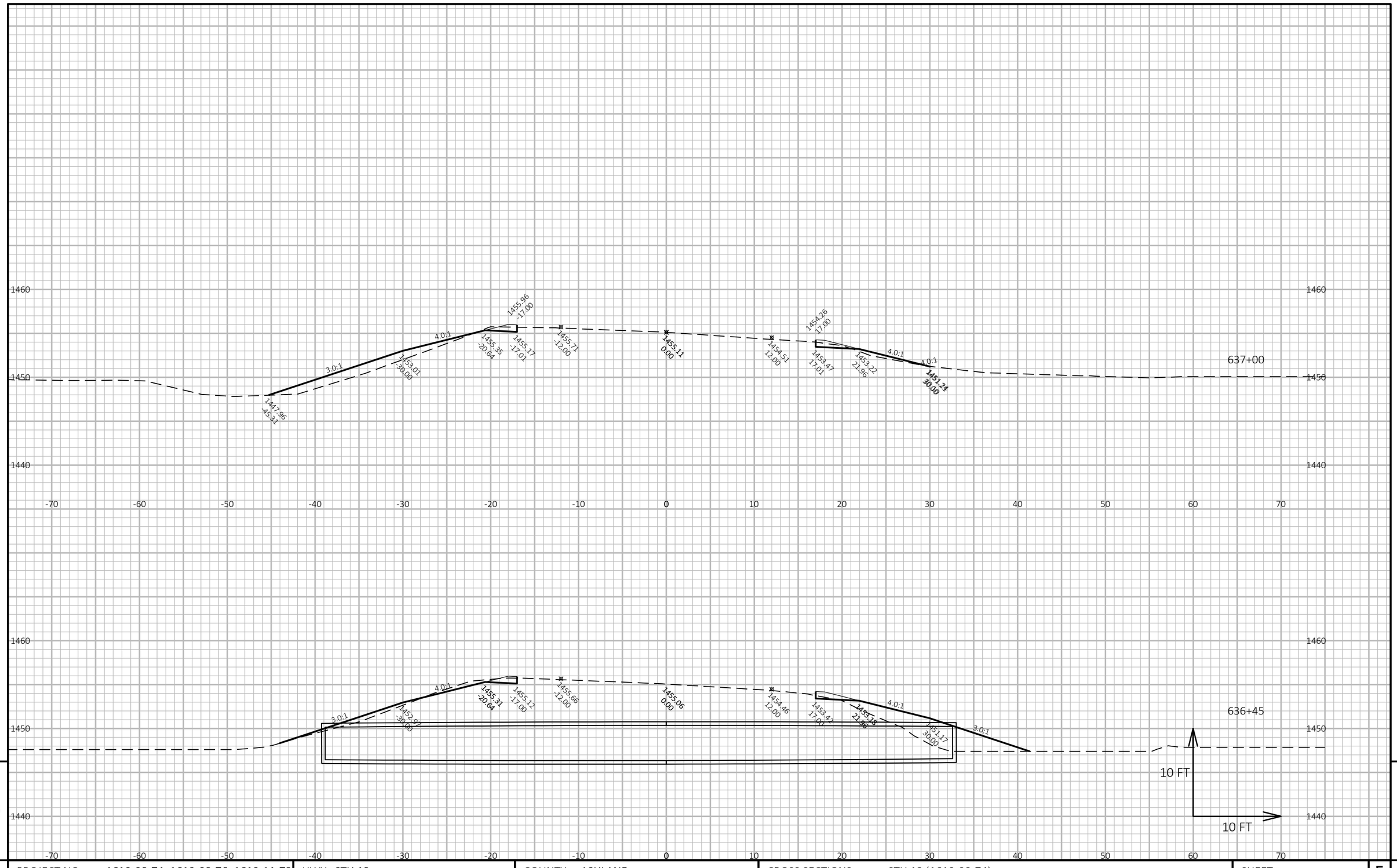
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 338	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(77)

PLOT DATE : 9/25/2018 12:37 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

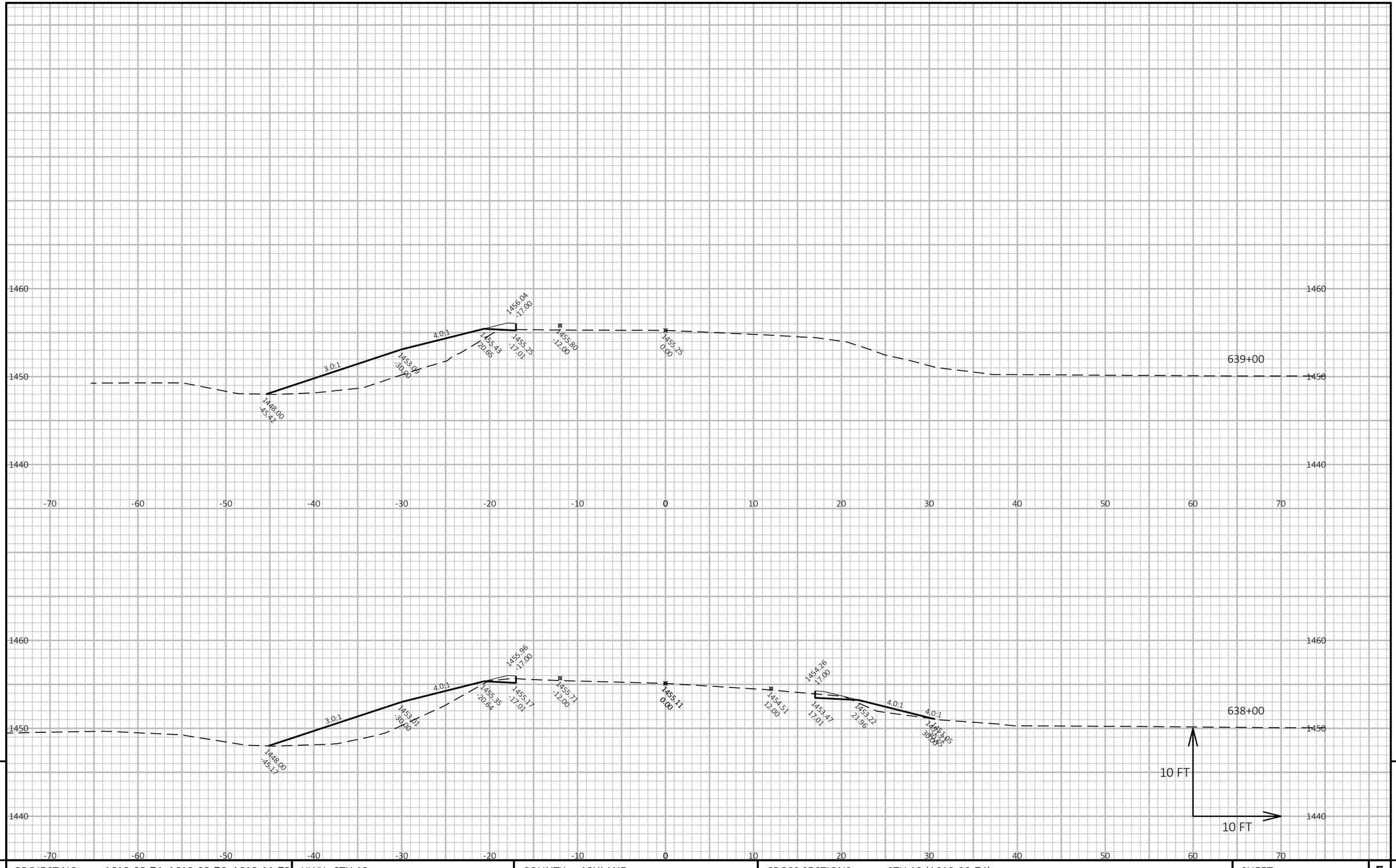
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 339	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(78)

PLOT DATE : 9/25/2018 12:38 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 340	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(79)

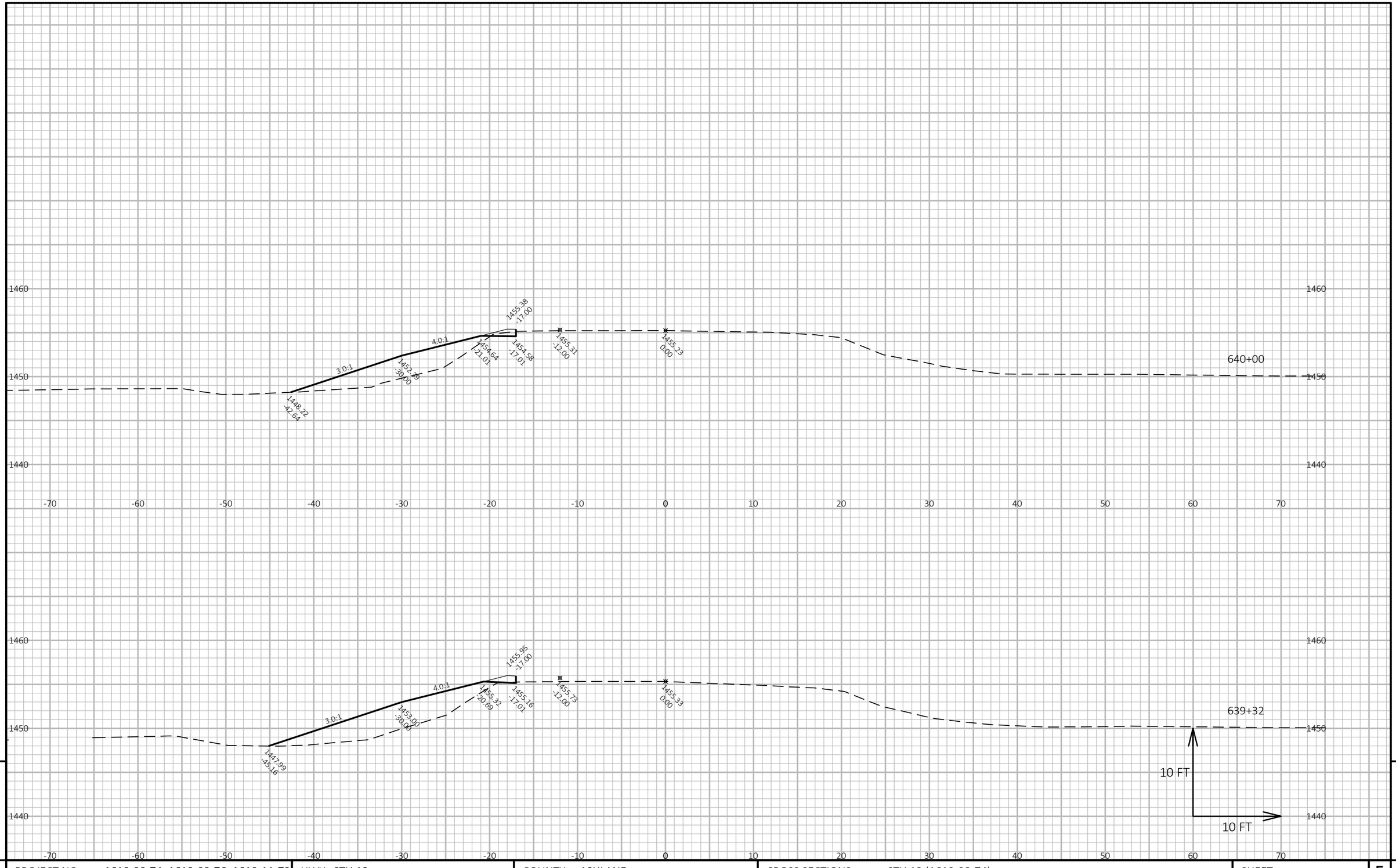
PLOT DATE : 9/25/2018 12:38 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



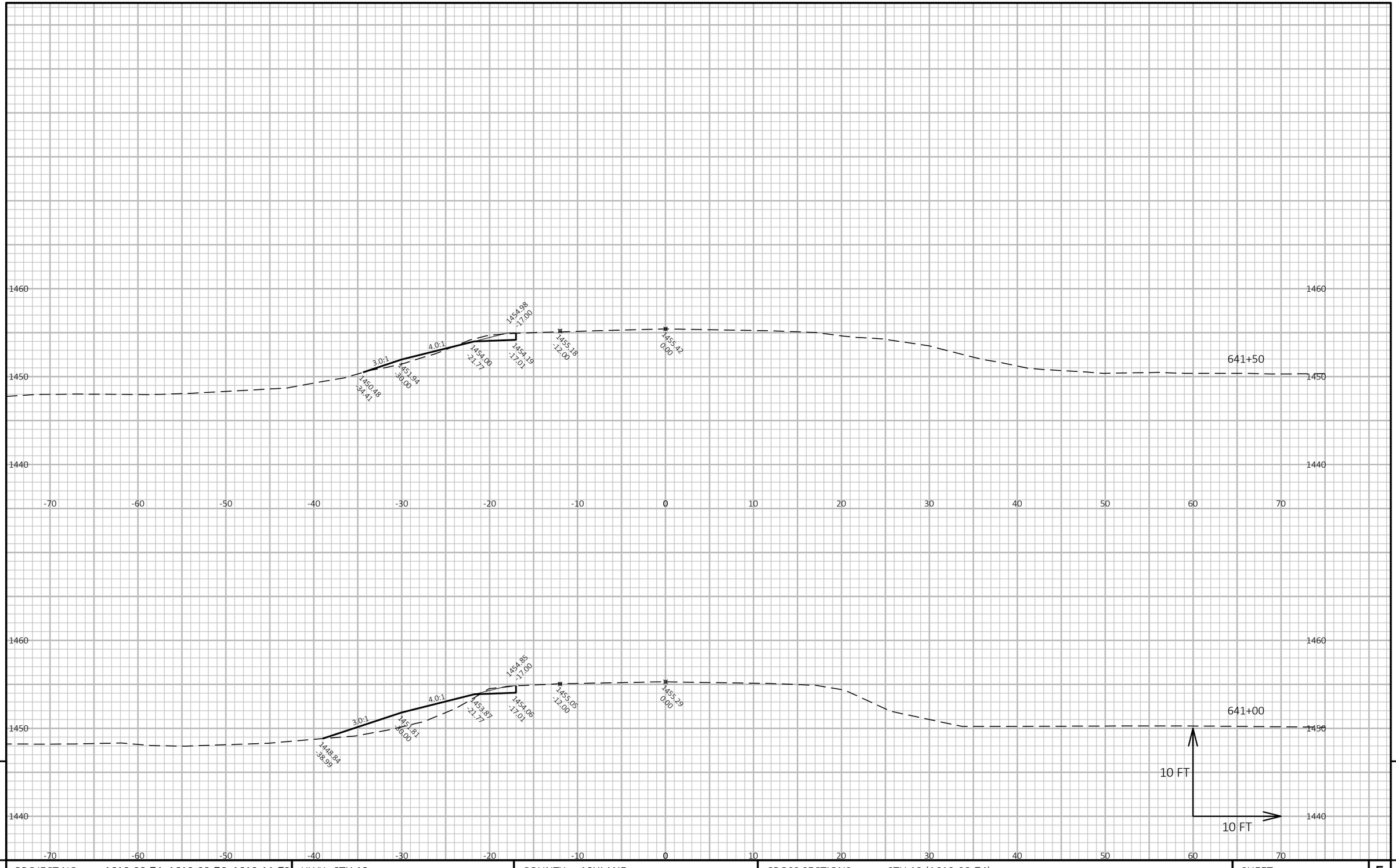
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 341 E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(80)

PLOT DATE : 9/25/2018 12:38 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



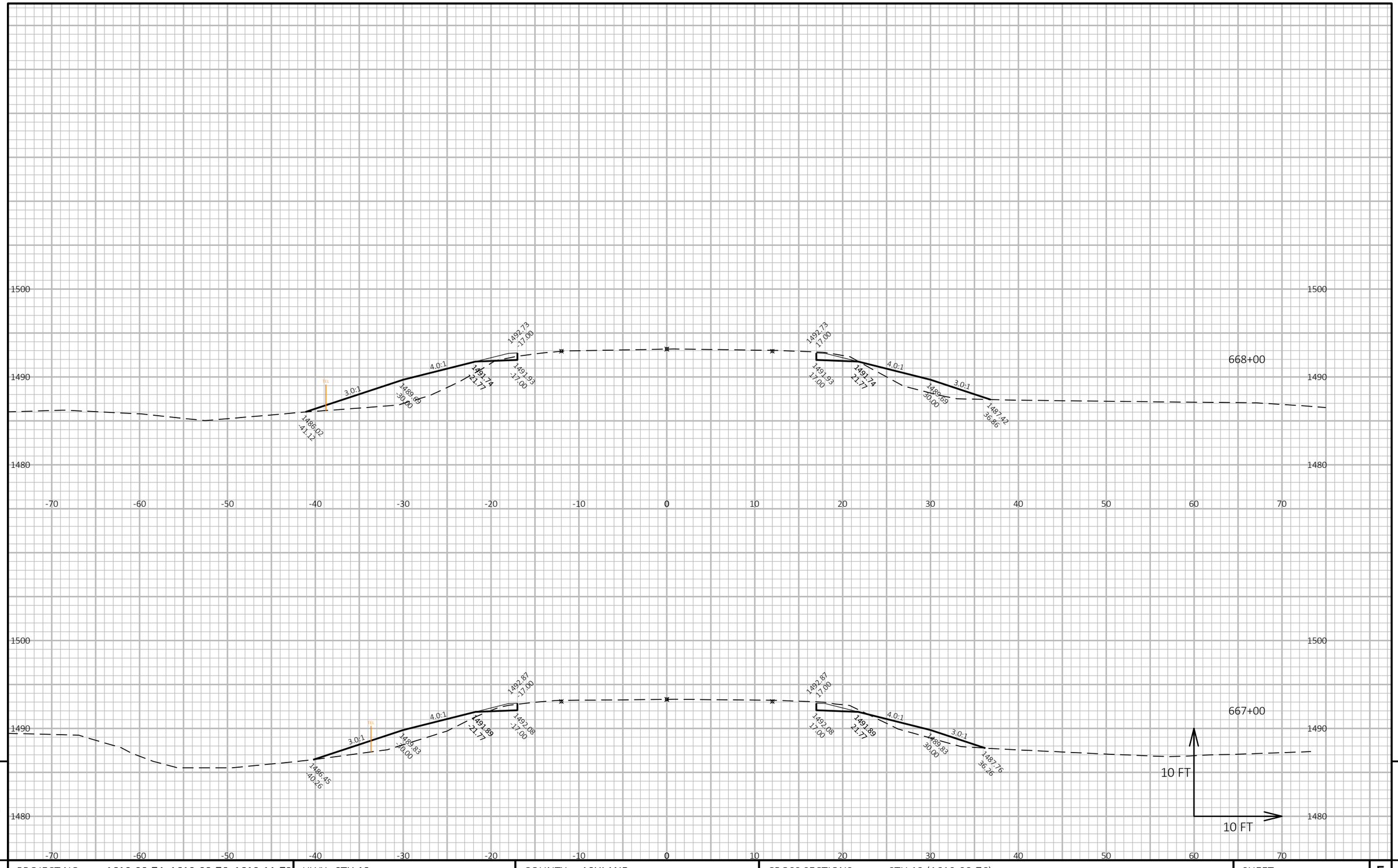
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-74)	SHEET 342	E

FILE NAME : N:\PDS\C3D\16100831\SHEETSPLAN\16100831_XS.DWG
LAYOUT NAME - XS-(81)

PLOT DATE : 9/25/2018 12:39 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 343	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(1)

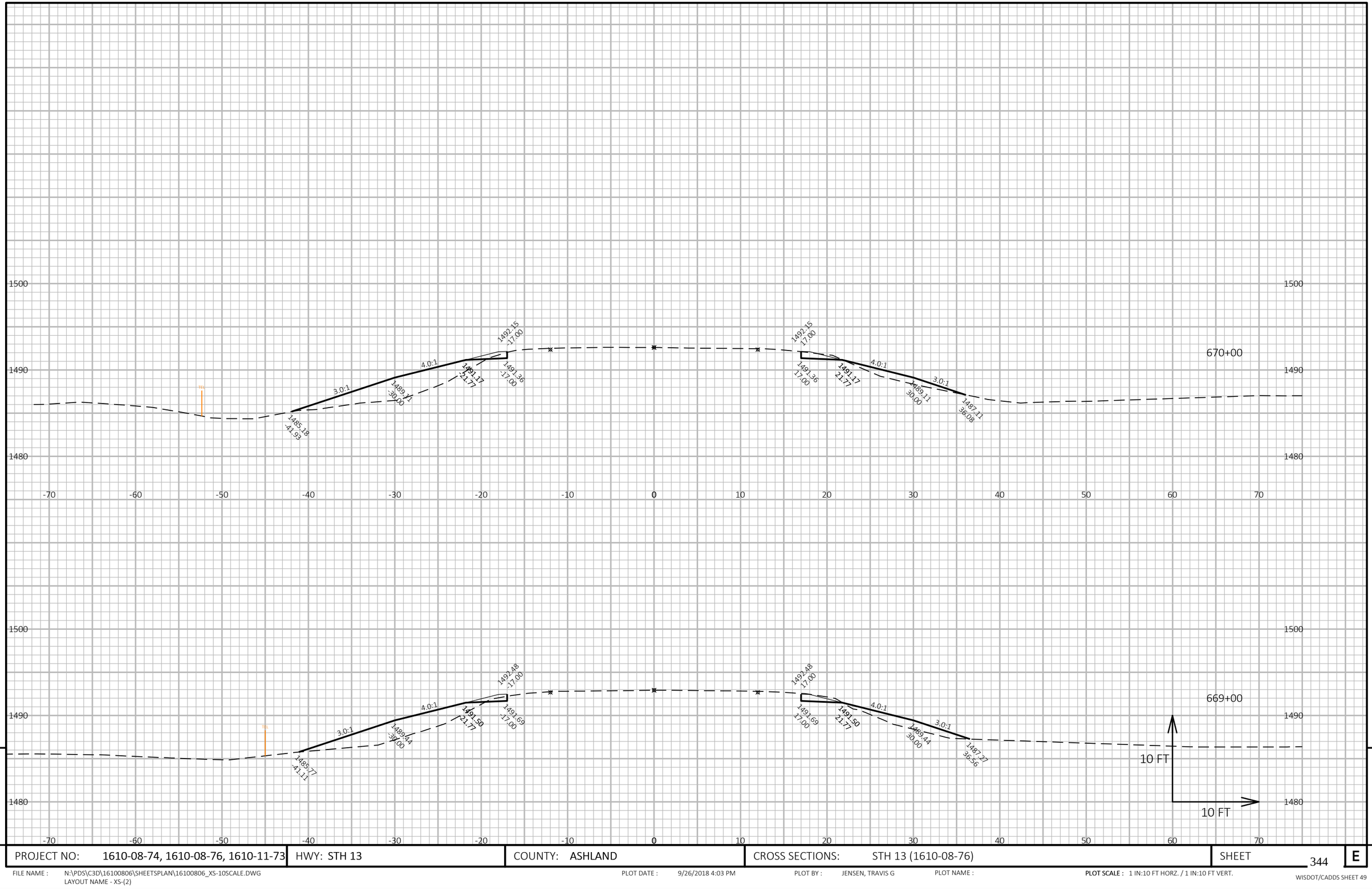
PLOT DATE : 9/26/2018 4:03 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 344	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(2)

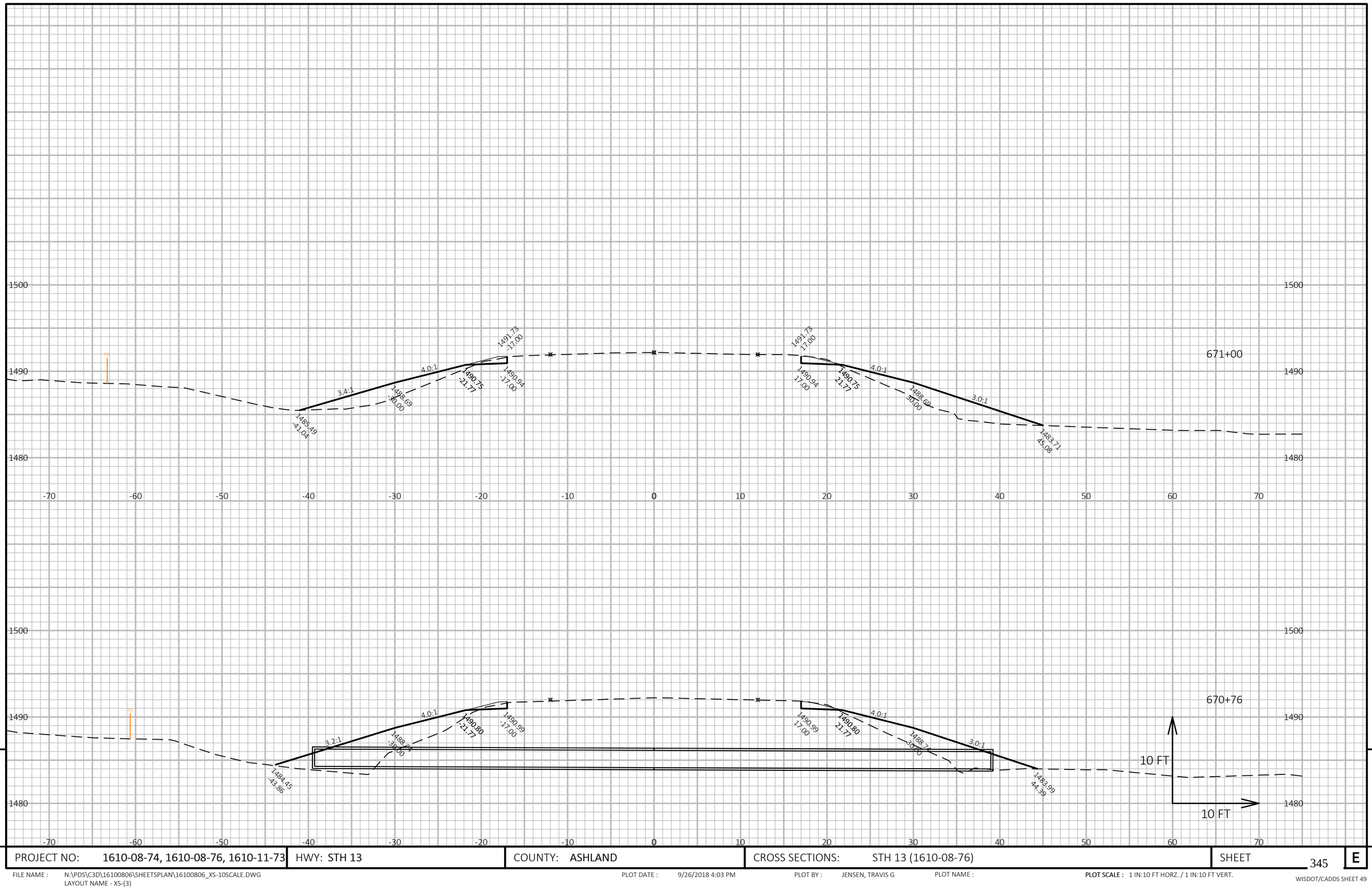
PLOT DATE : 9/26/2018 4:03 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 345	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(3)

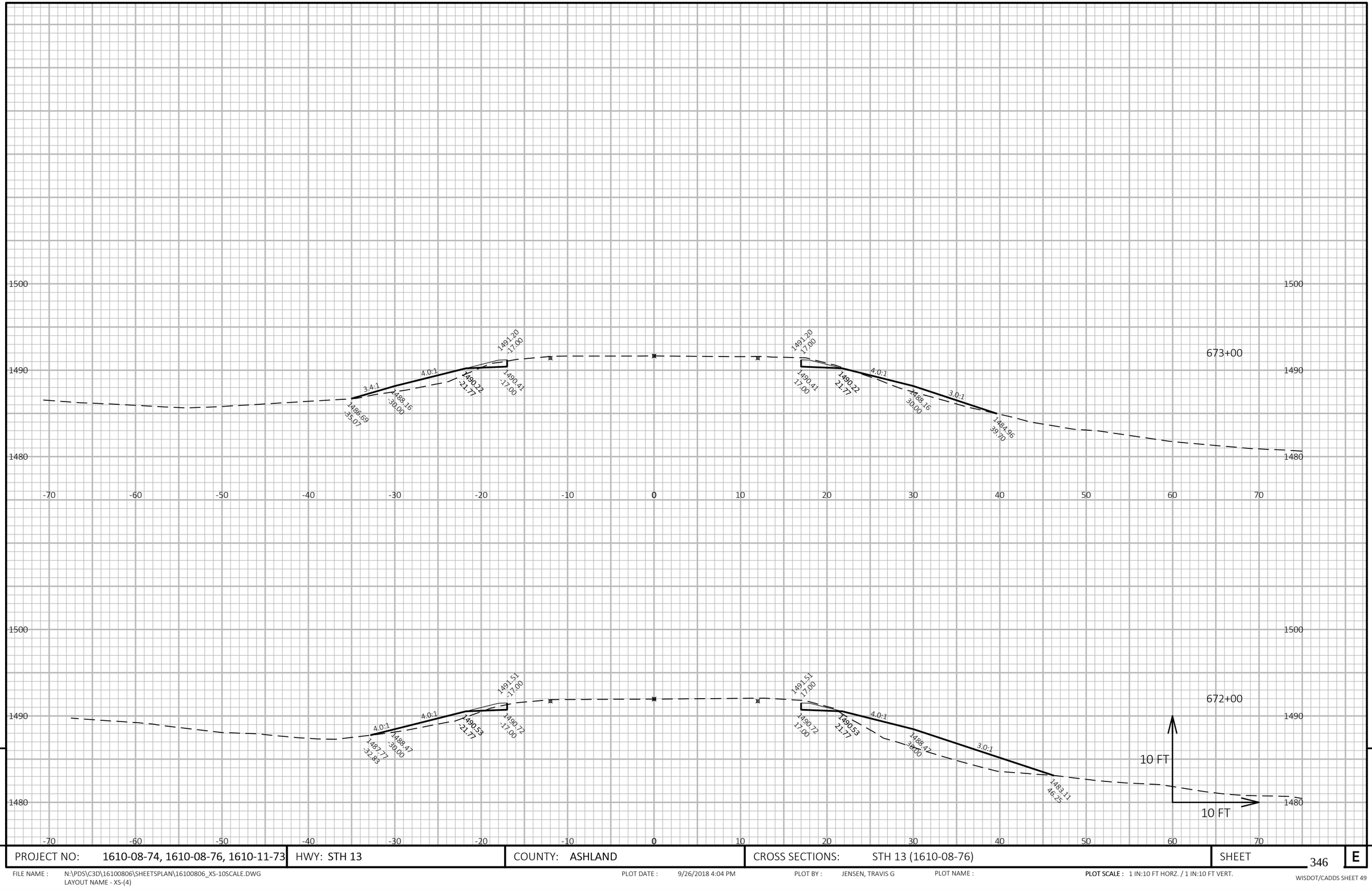
PLOT DATE : 9/26/2018 4:03 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49

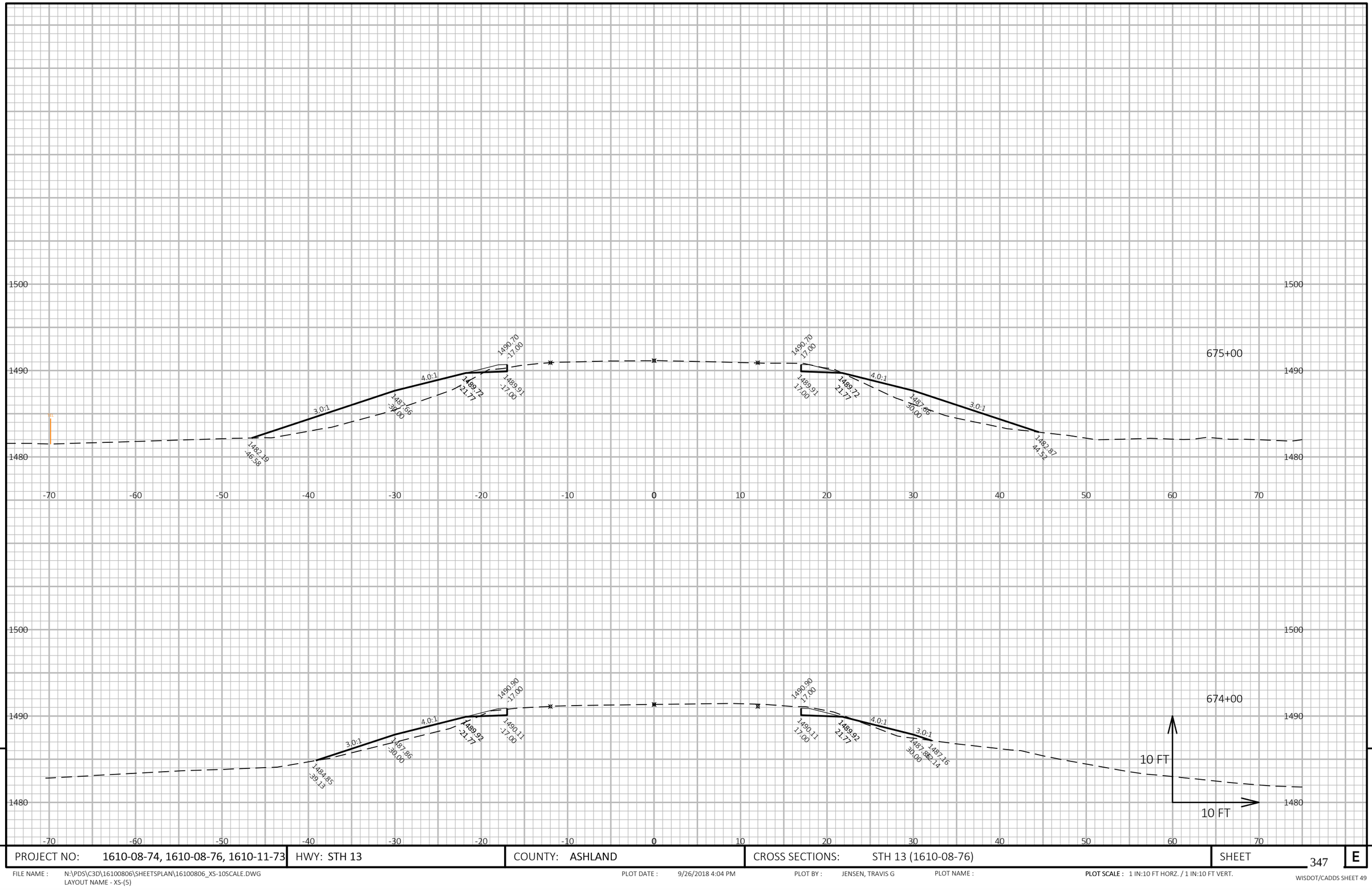


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 346	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(4)

PLOT DATE : 9/26/2018 4:04 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 347 E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(5)

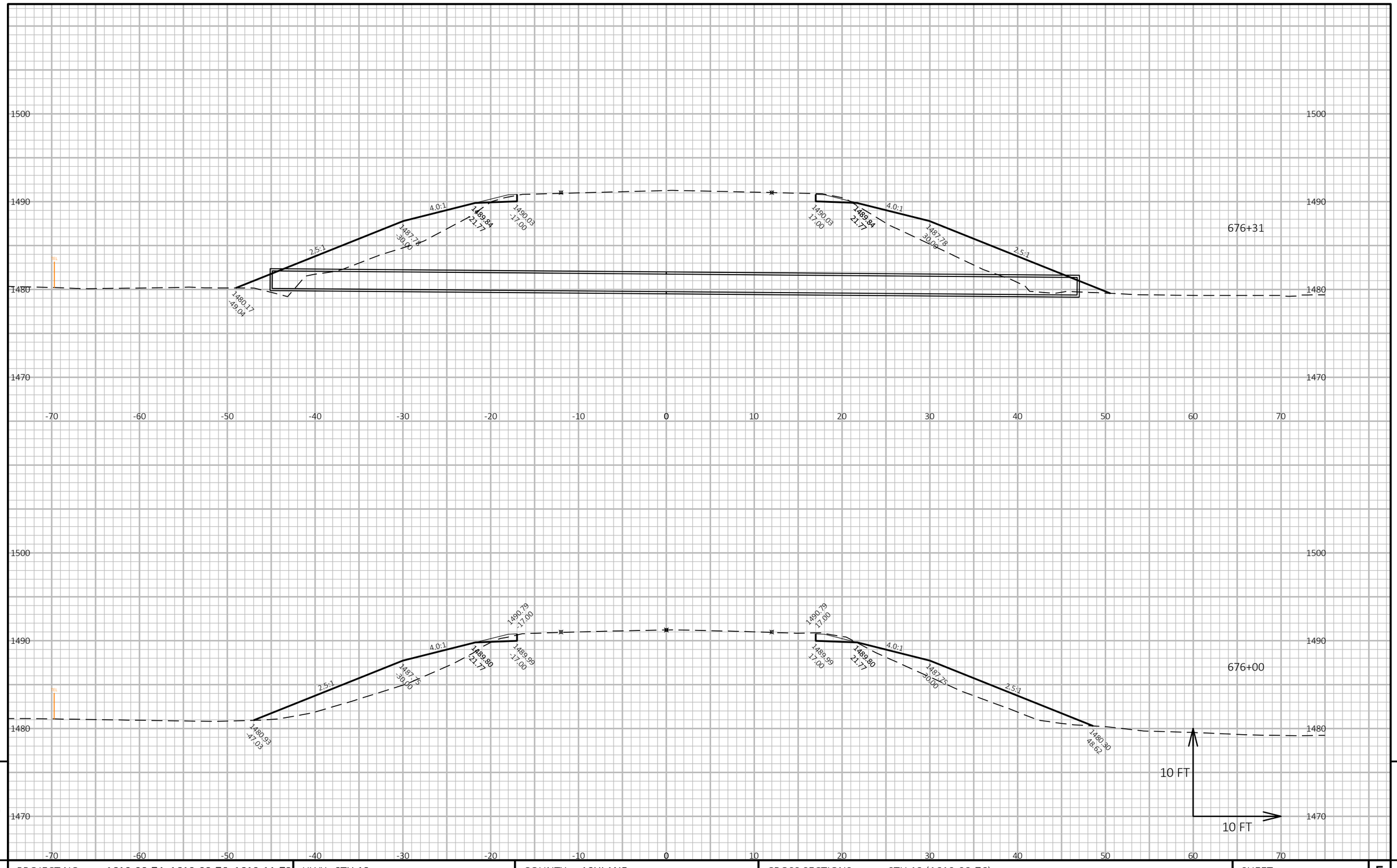
PLOT DATE : 9/26/2018 4:04 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 348	E

9

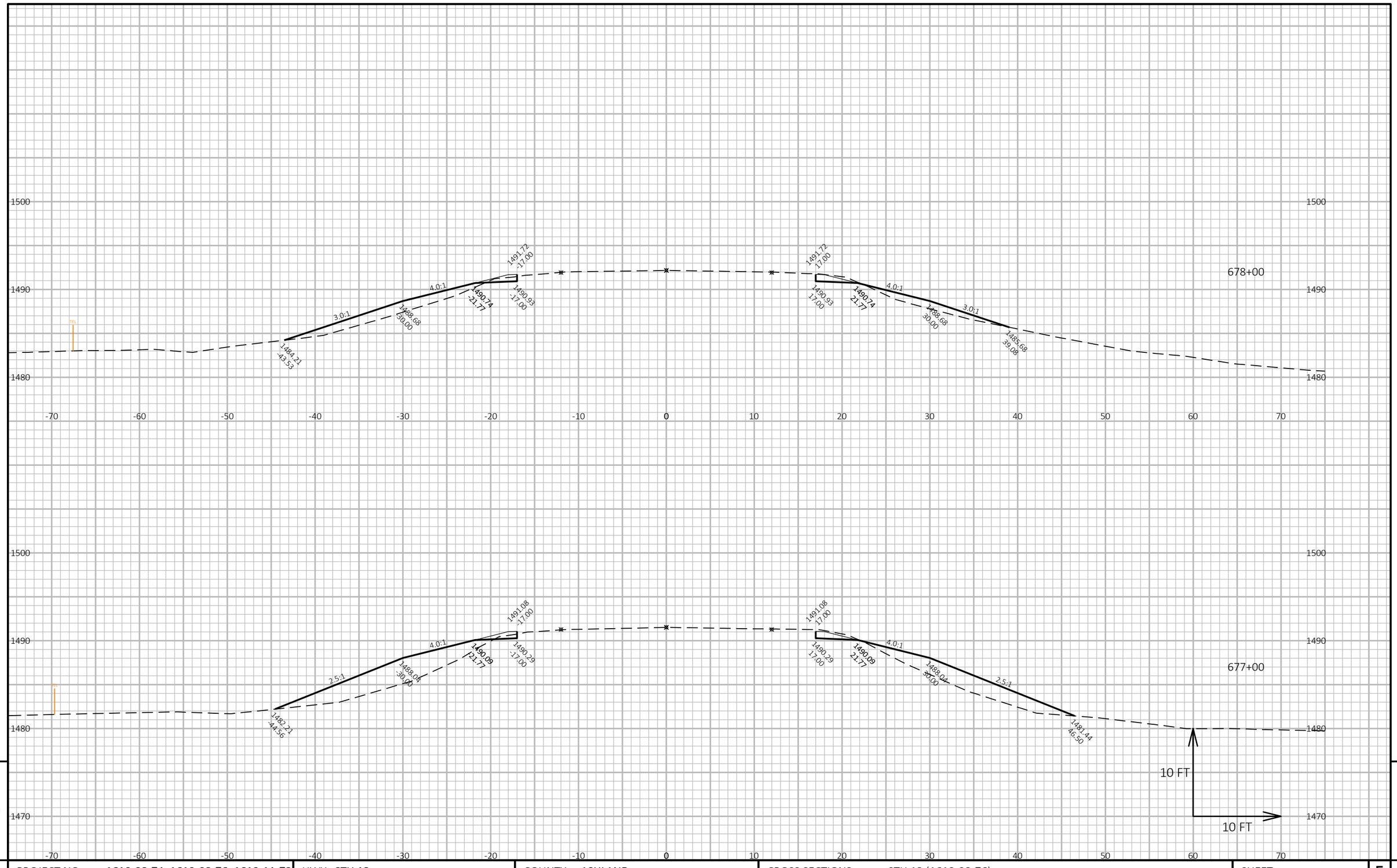
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LAYOUT NAME - XS-(6)

PLOT DATE : 9/26/2018 4:04 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 349	E

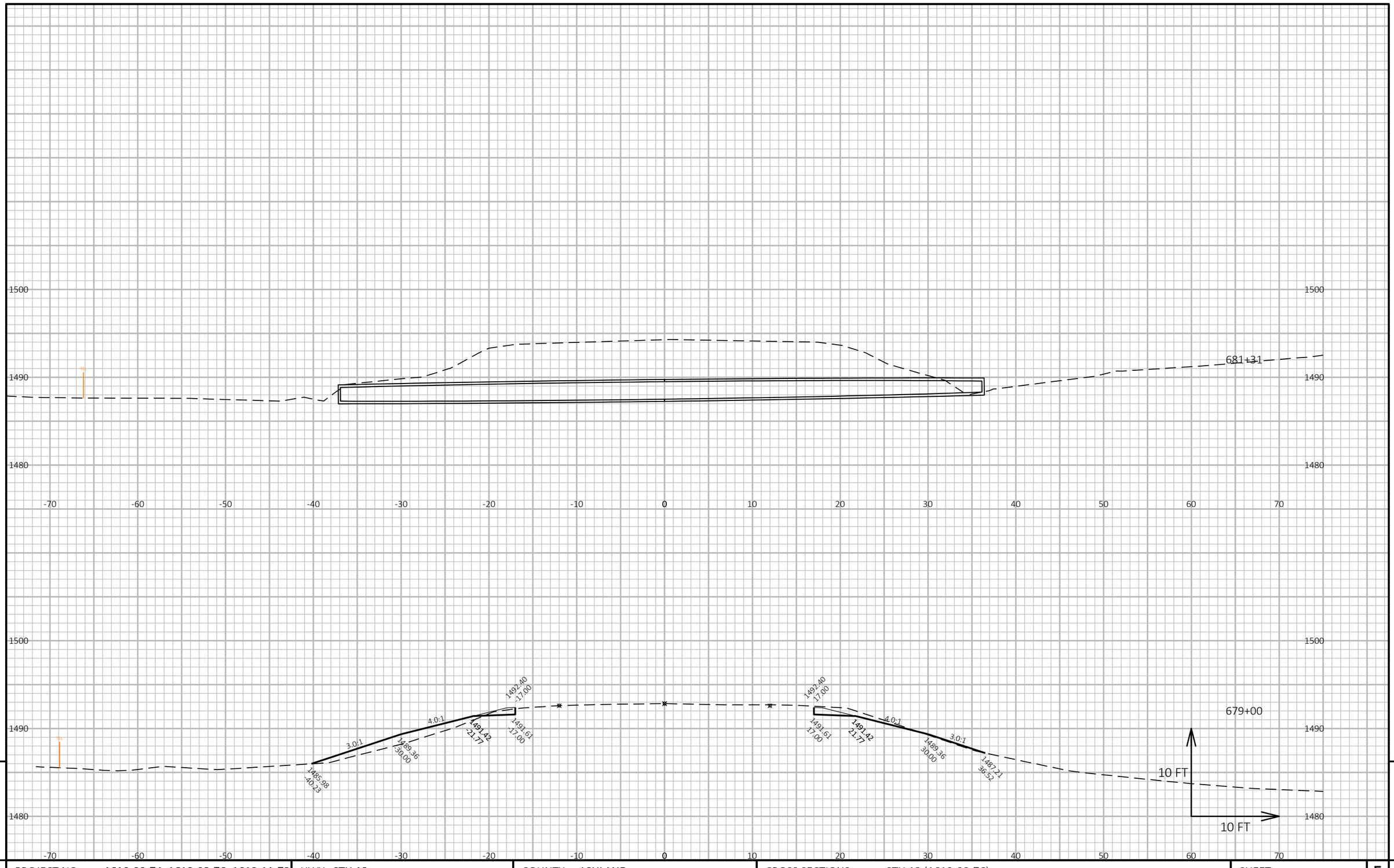
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LAYOUT NAME - XS-(7)

PLOT DATE : 9/26/2018 4:04 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 350	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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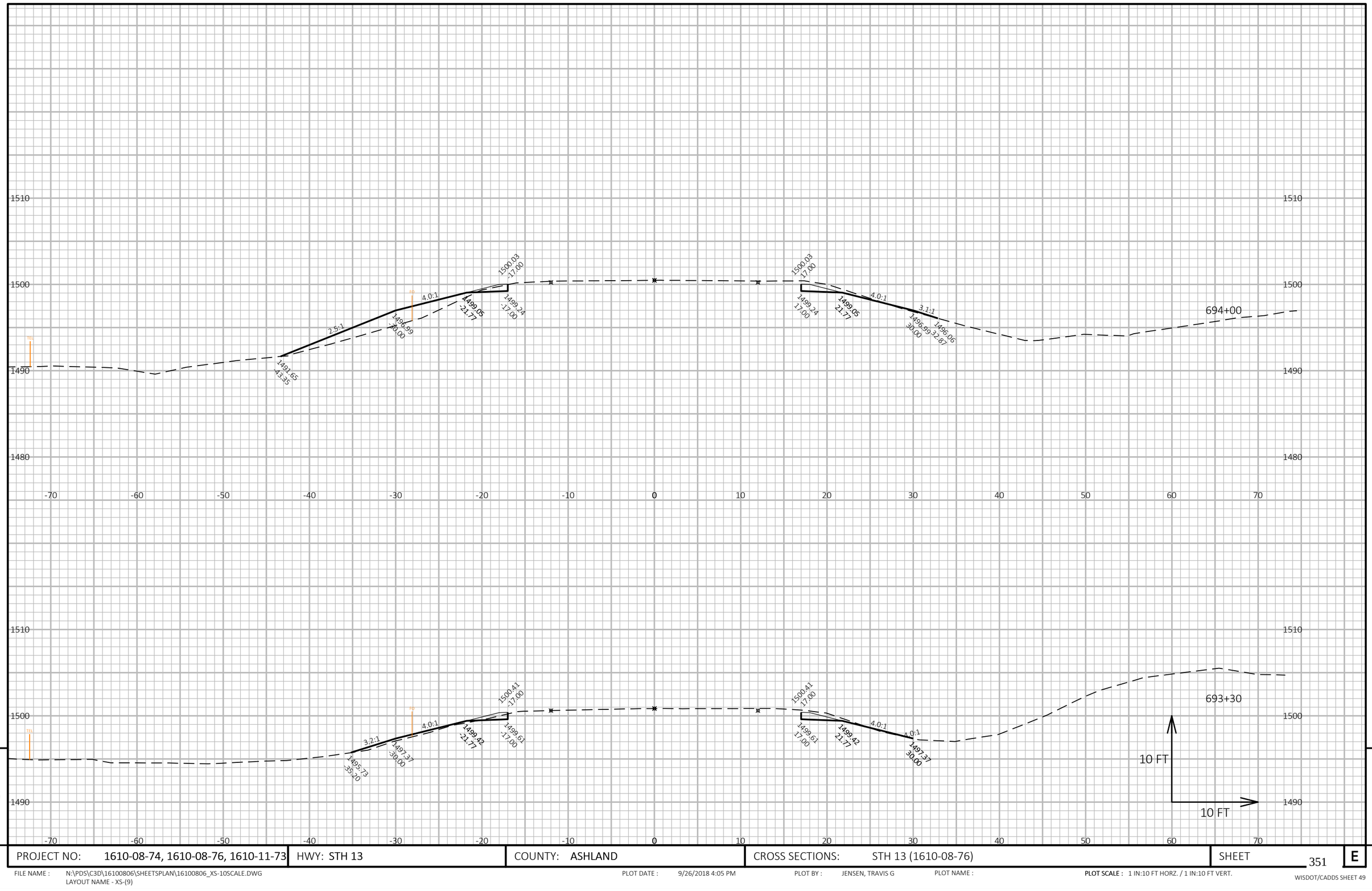
PLOT DATE : 9/26/2018 4:05 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 351	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(9)

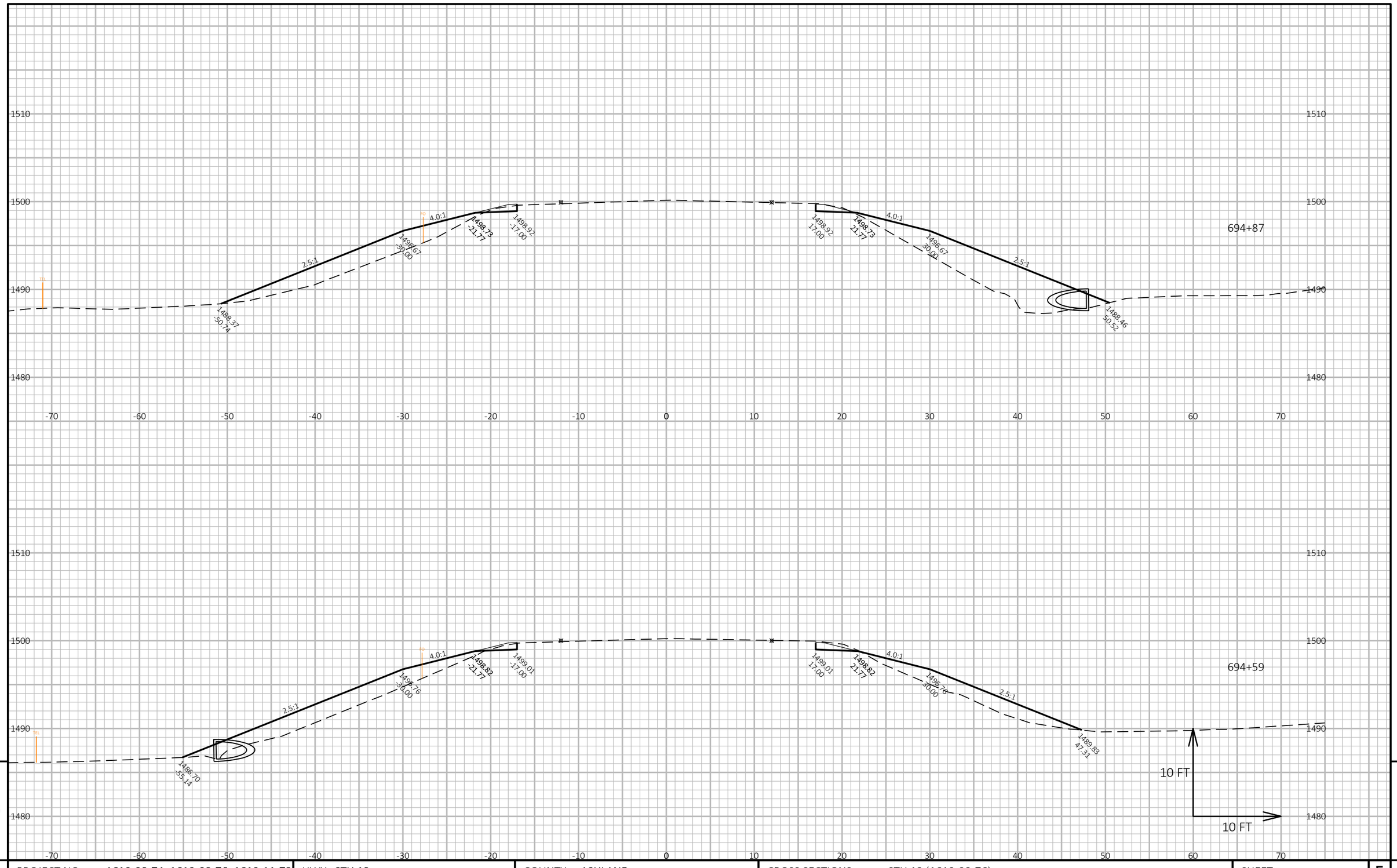
PLOT DATE : 9/26/2018 4:05 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 352	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(10)

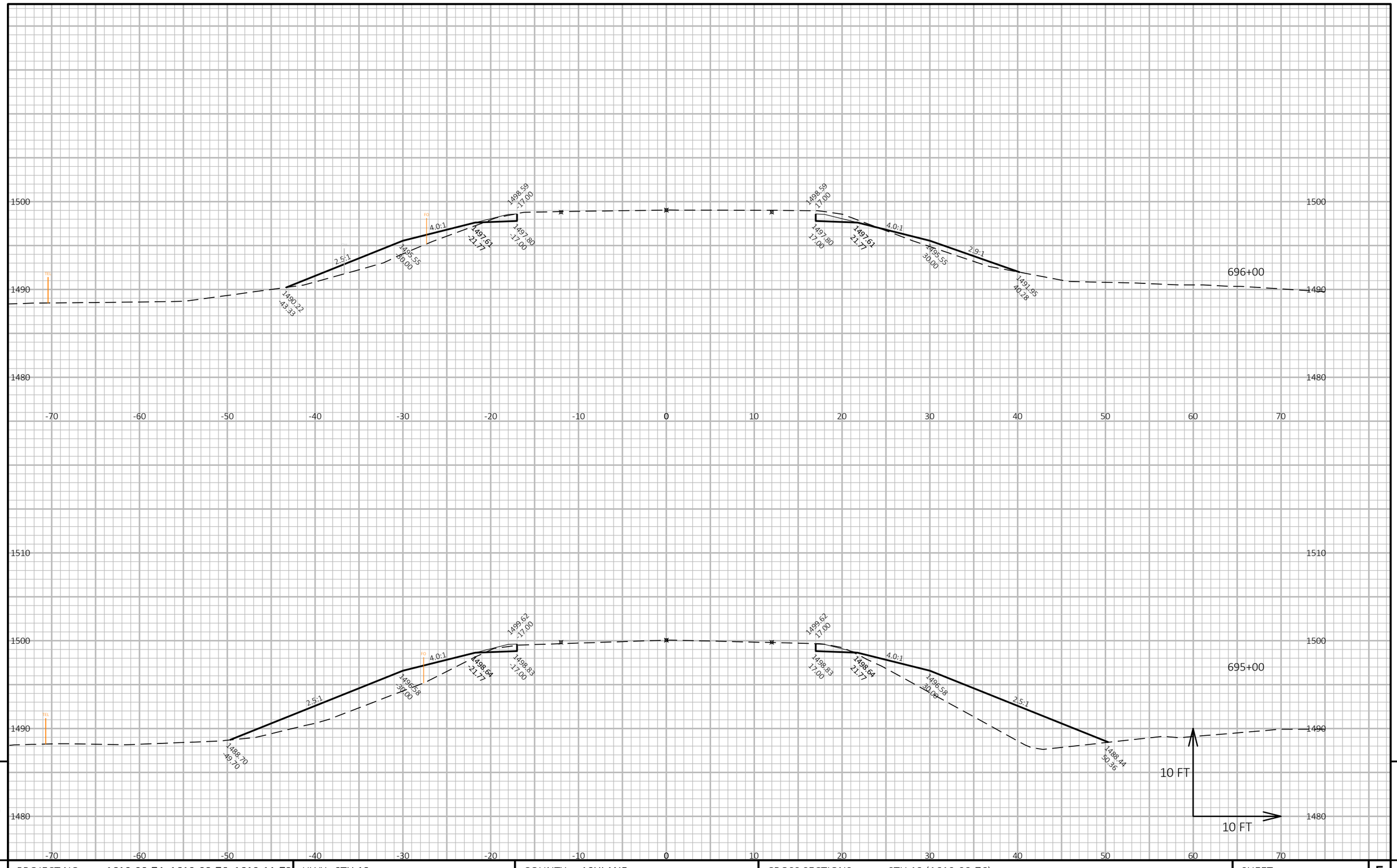
PLOT DATE : 9/26/2018 4:05 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 353	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(11)

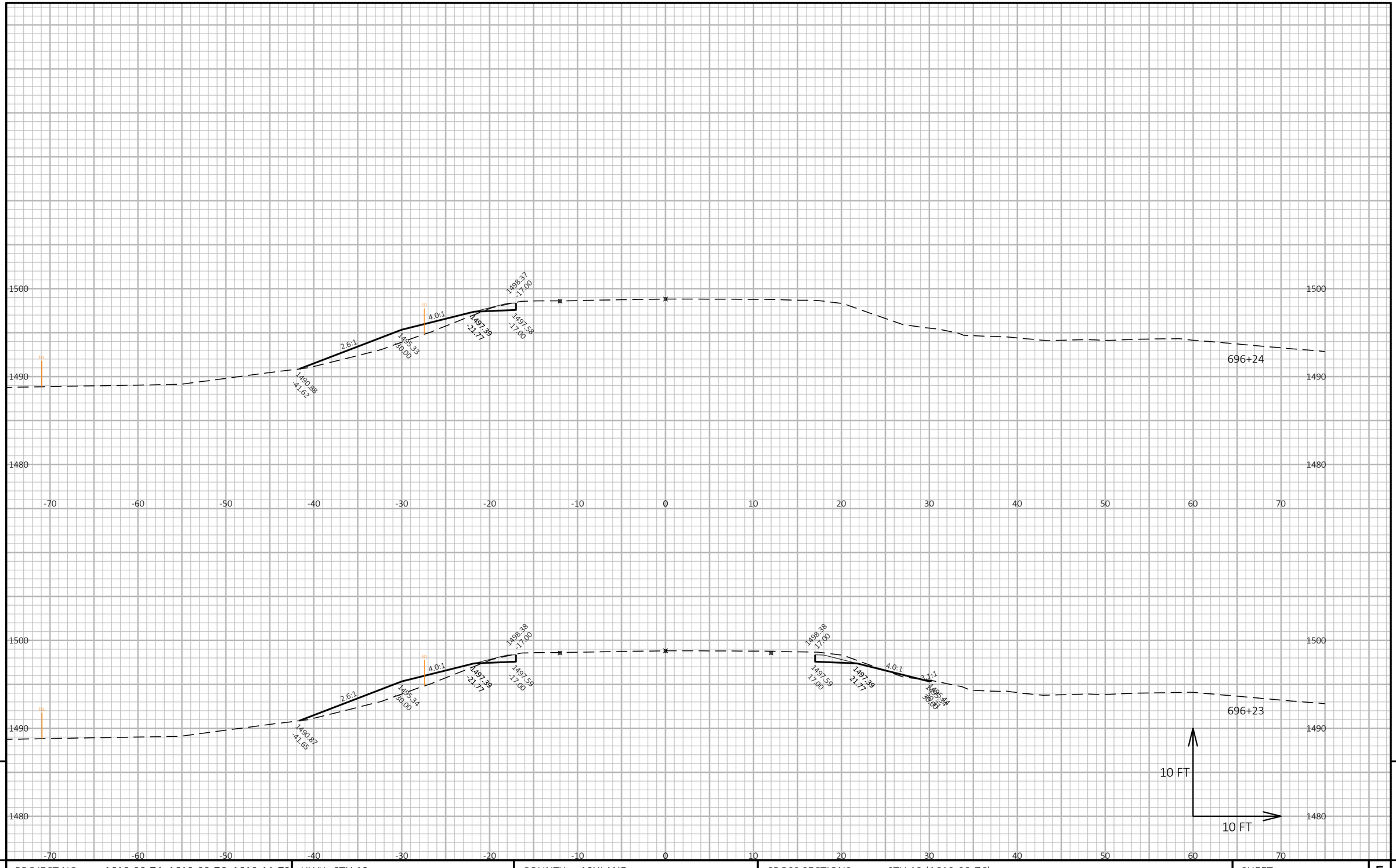
PLOT DATE : 9/26/2018 4:05 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 354	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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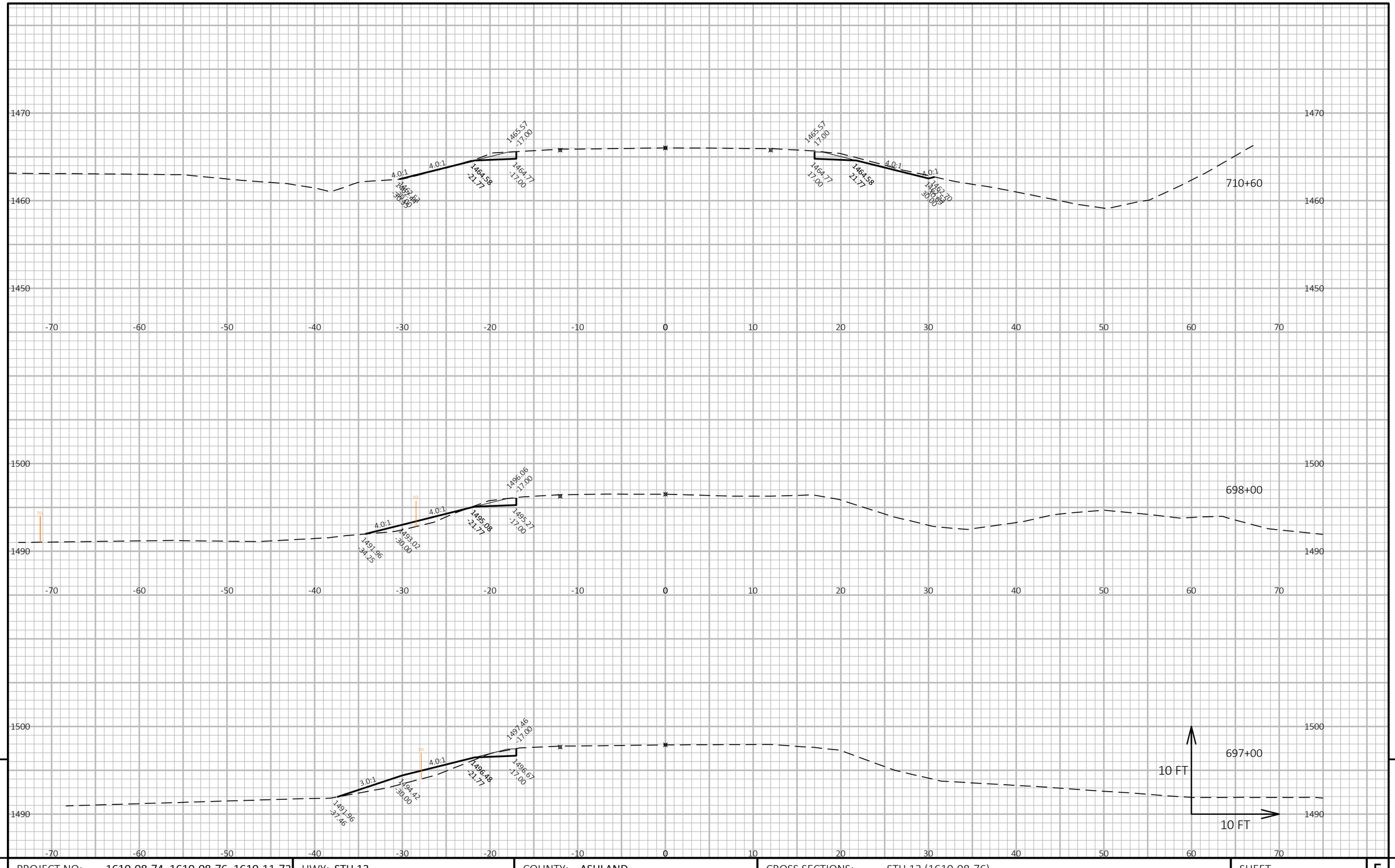
PLOT DATE : 9/26/2018 4:06 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 355	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(13)

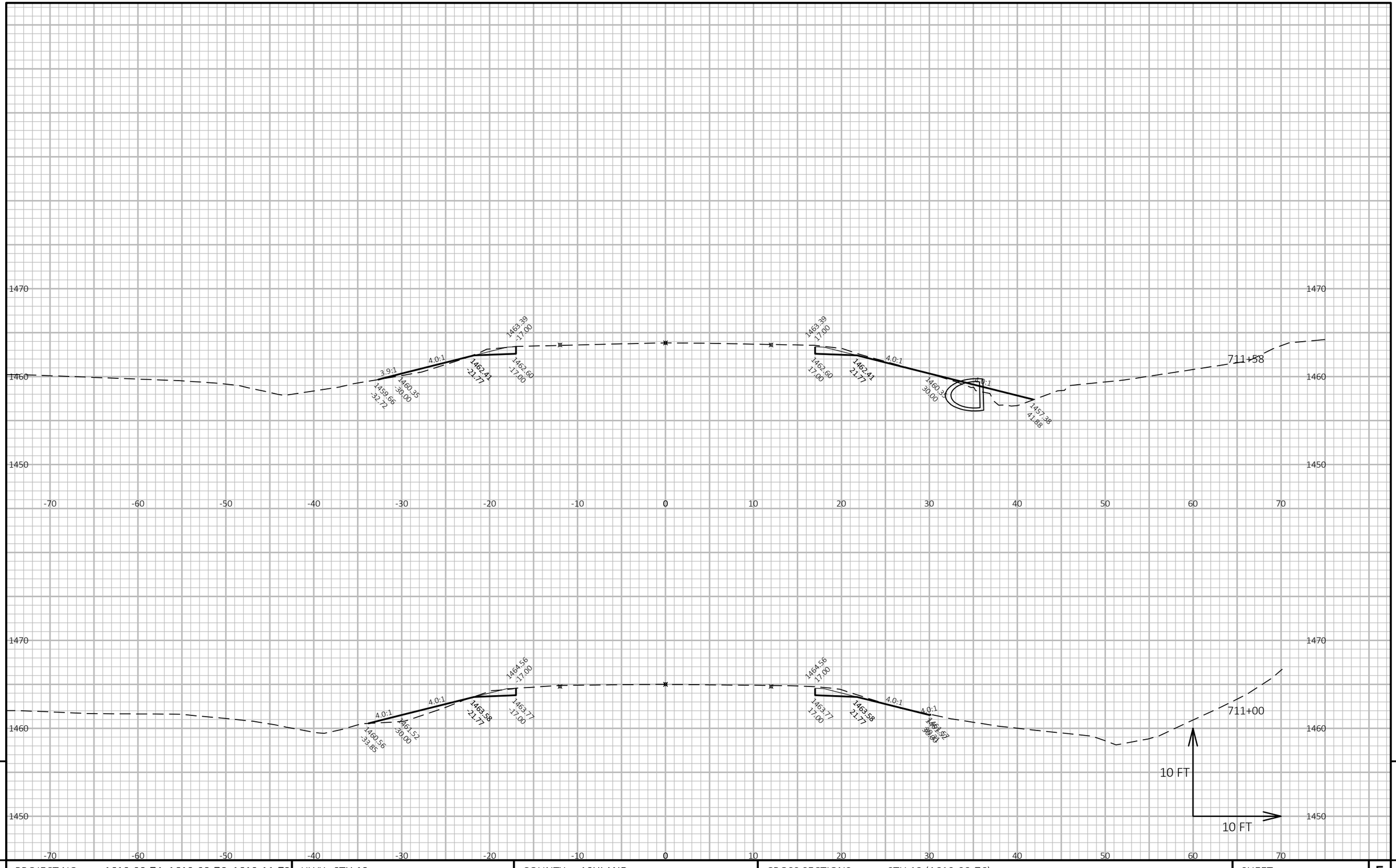
PLOT DATE : 9/26/2018 4:06 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 356	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(14)

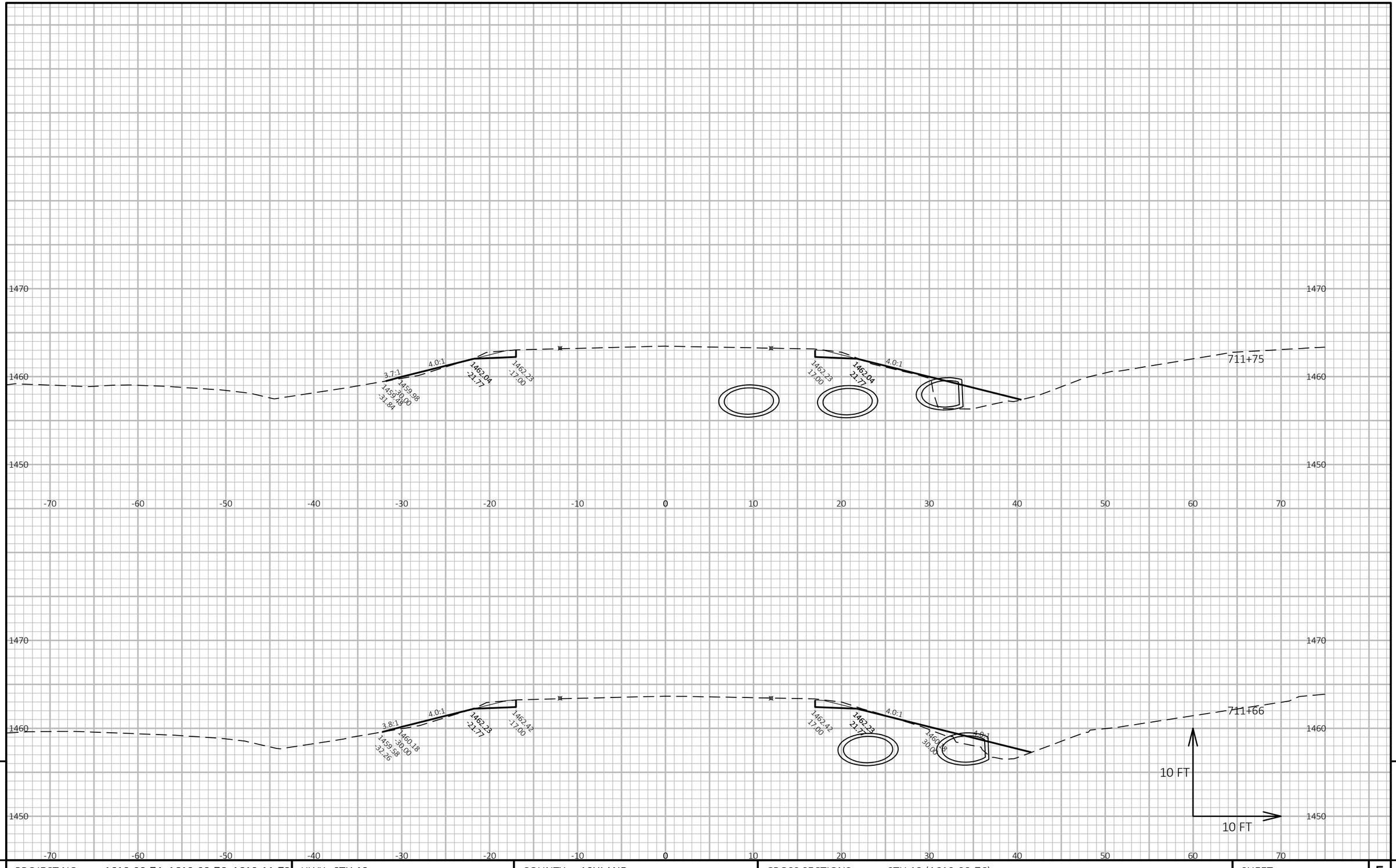
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PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 357	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(15)

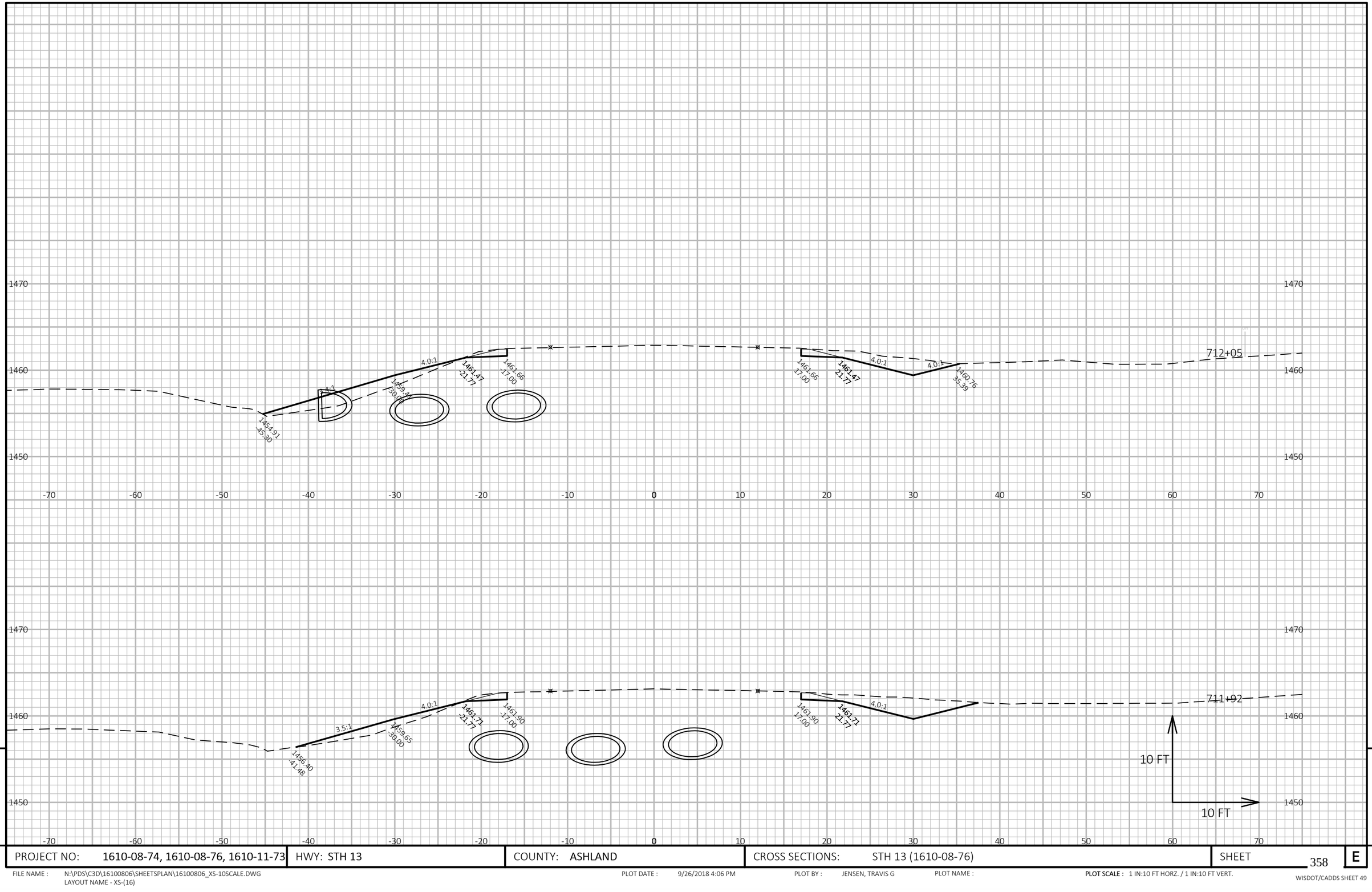
PLOT DATE : 9/26/2018 4:06 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 358	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(16)

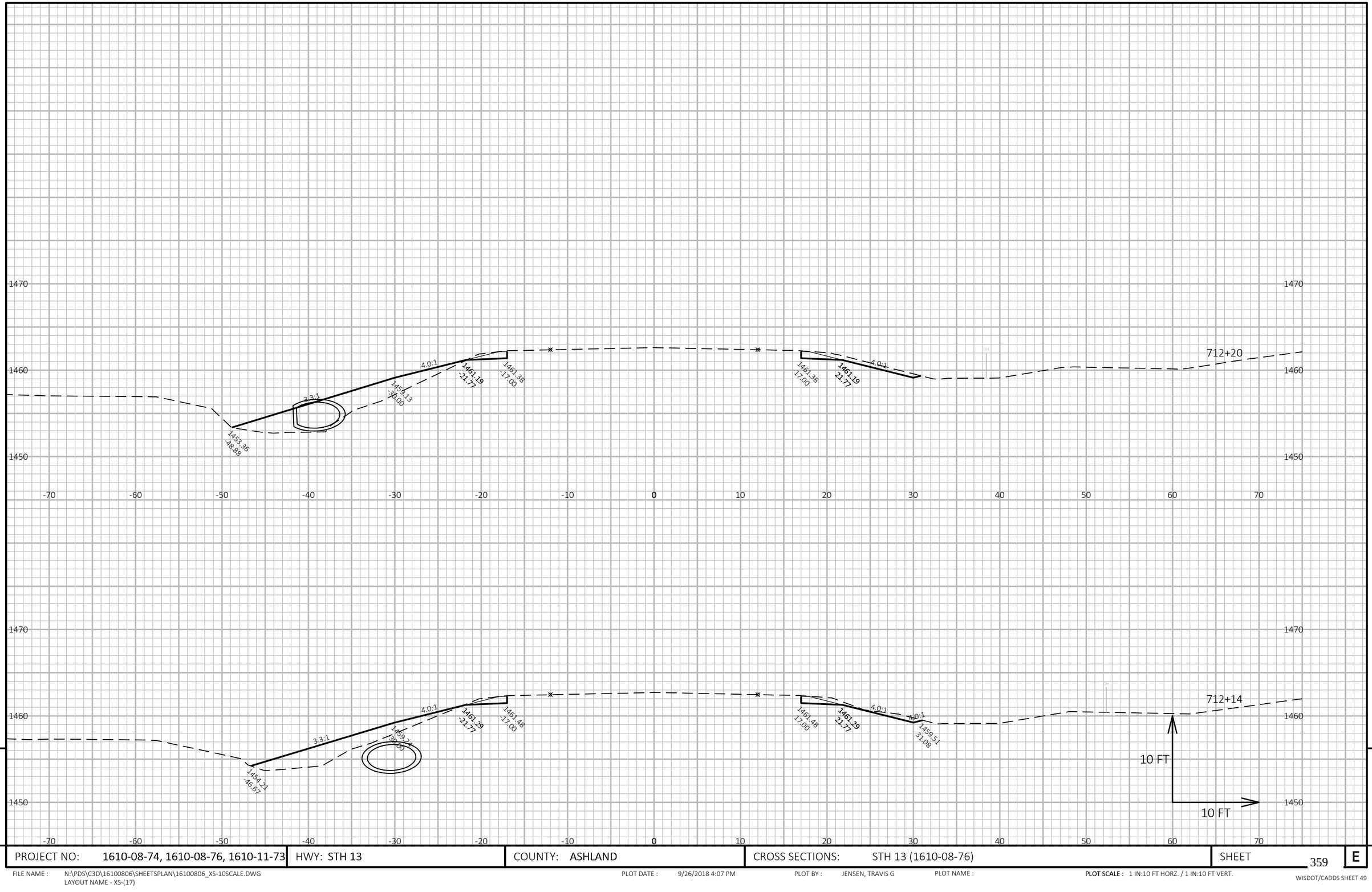
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PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 359	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(17)

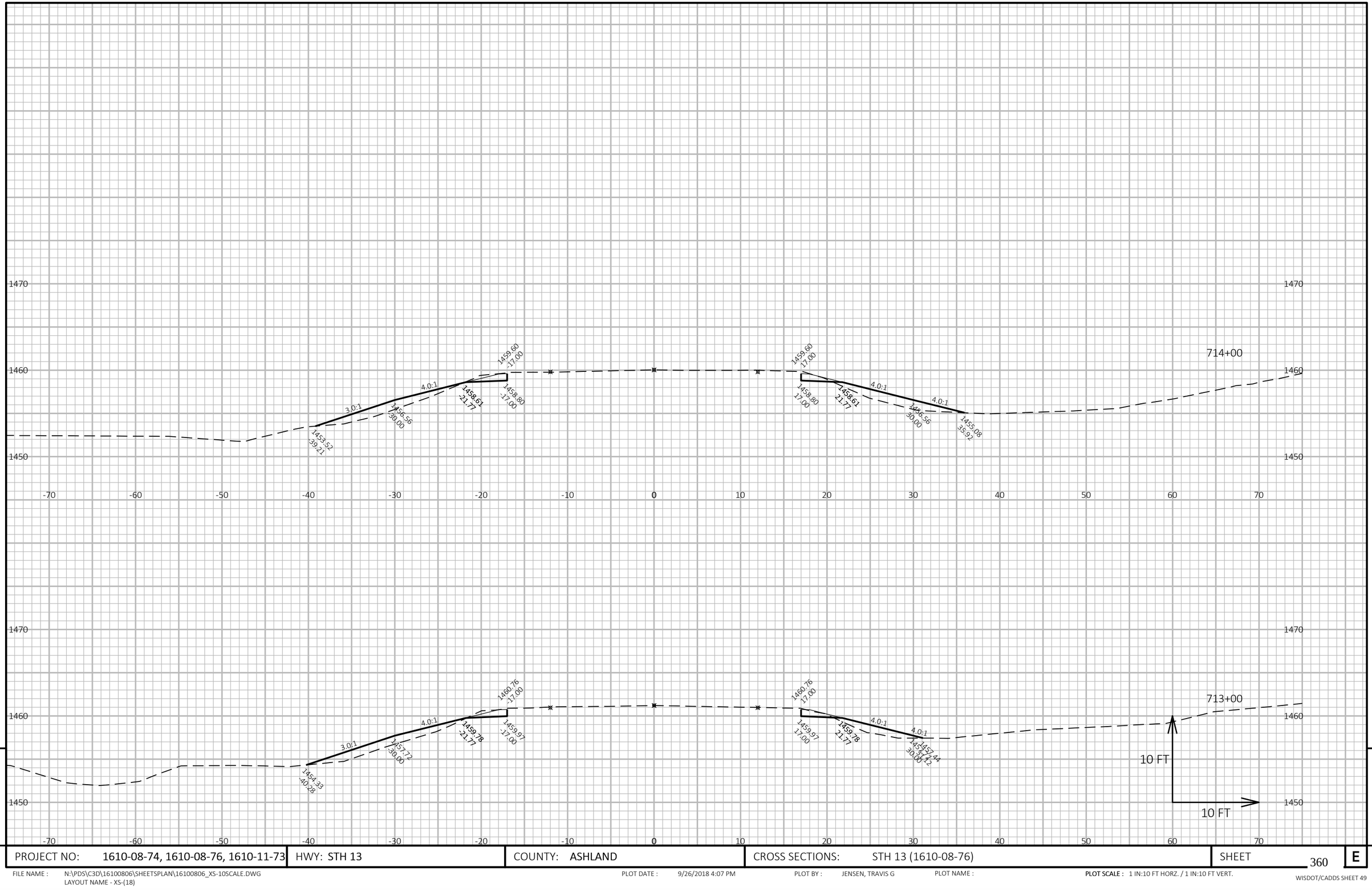
PLOT DATE : 9/26/2018 4:07 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 360	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(18)

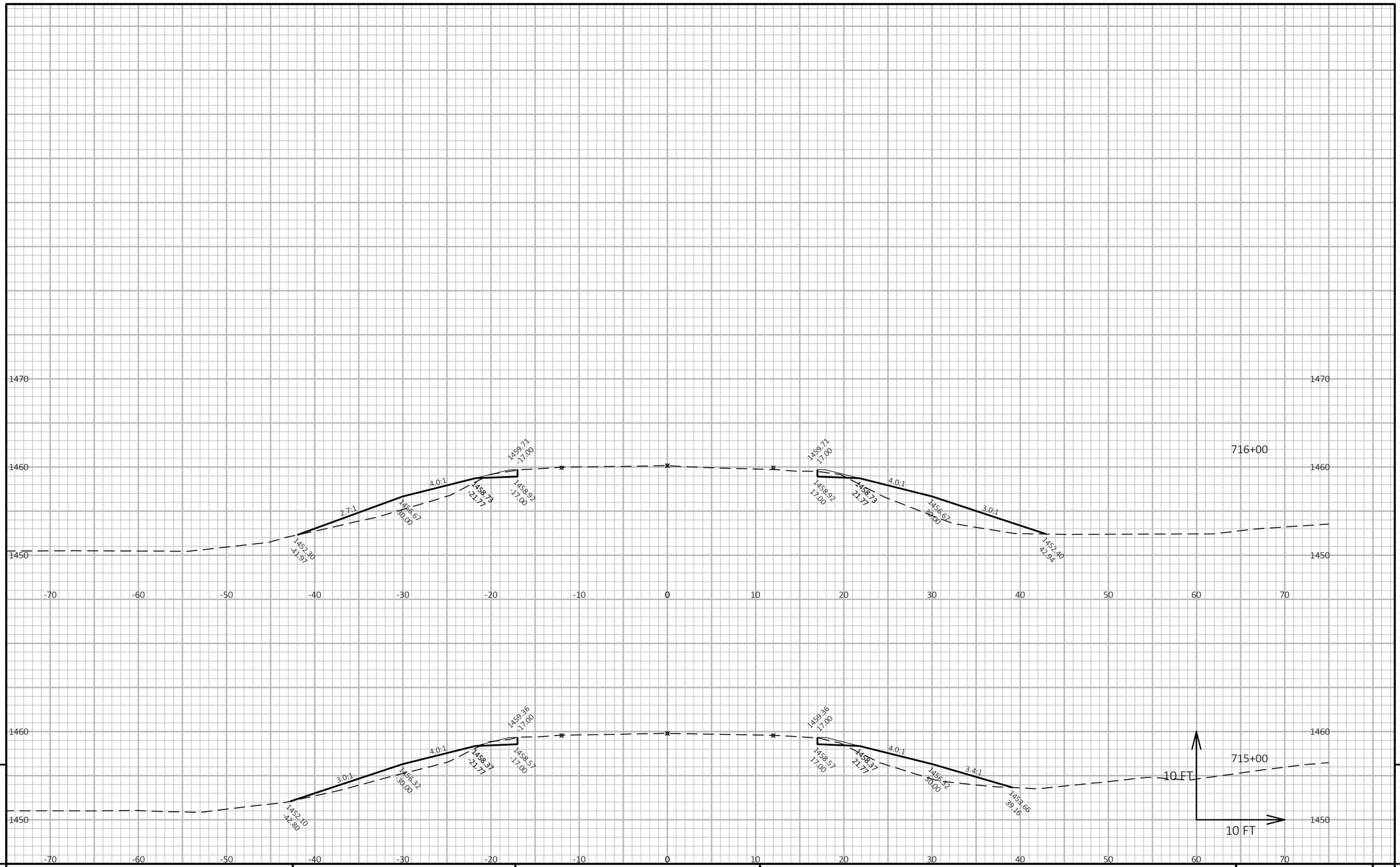
PLOT DATE : 9/26/2018 4:07 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 361	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(19)

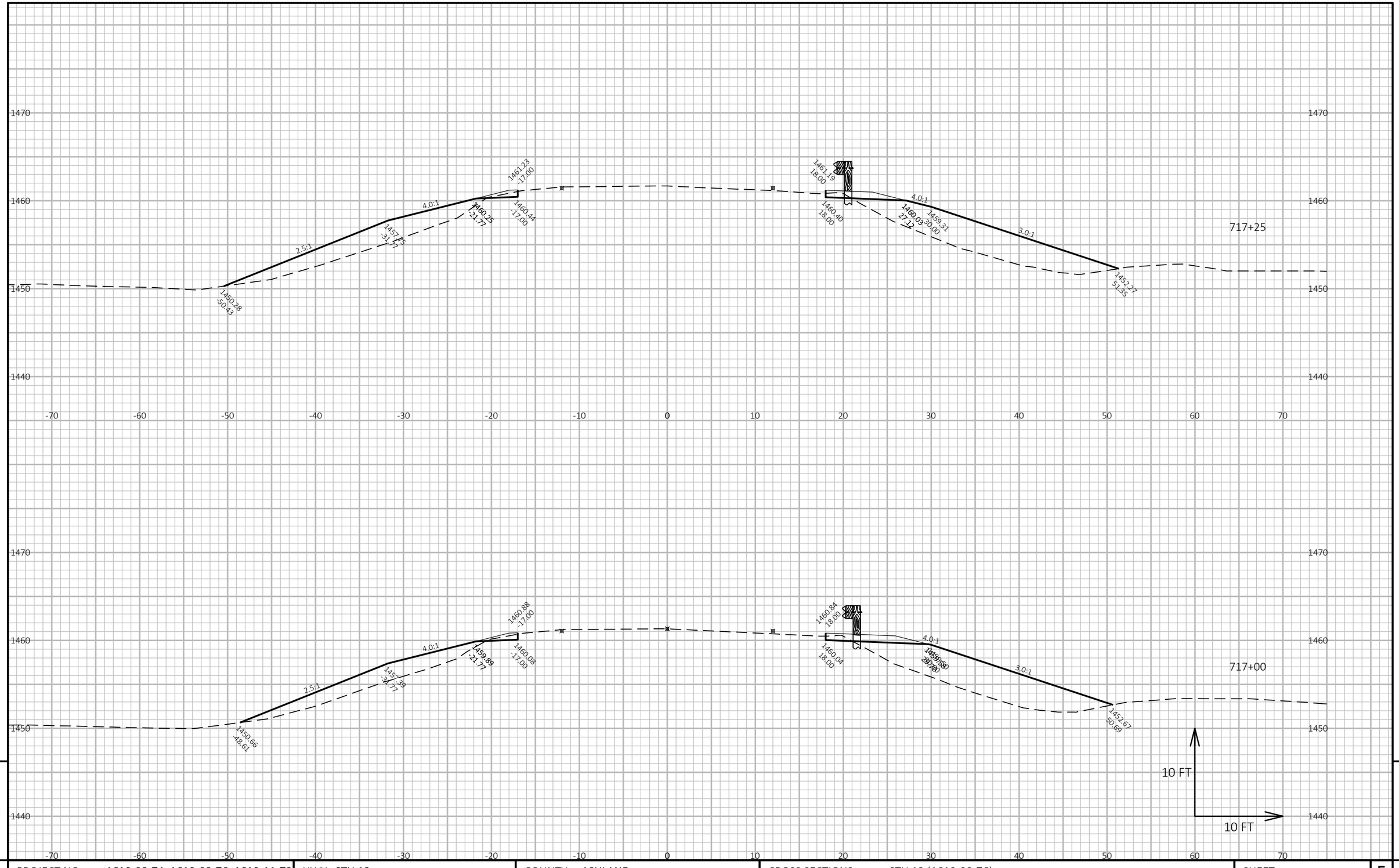
PLOT DATE : 9/26/2018 4:07 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 362	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(20)

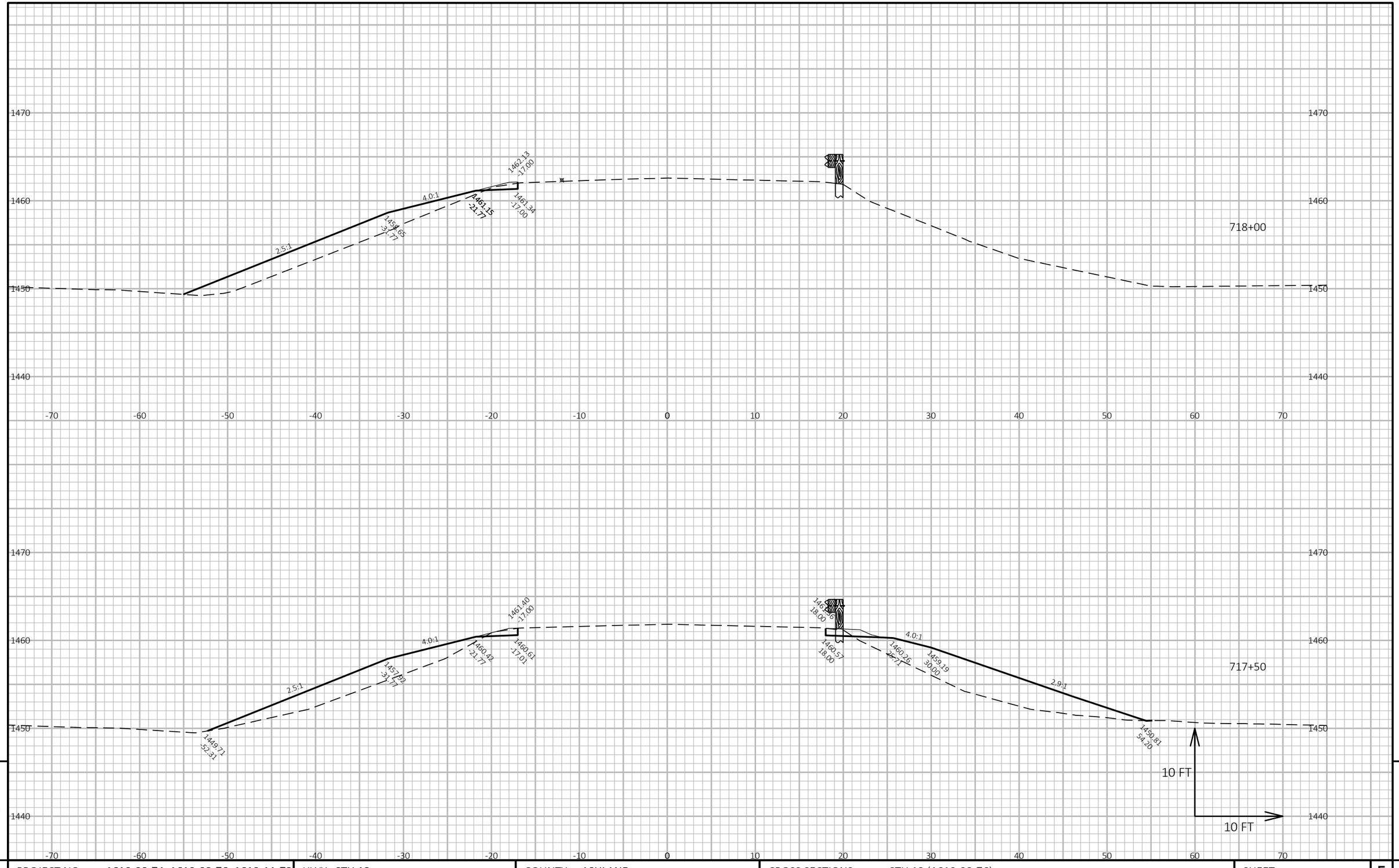
PLOT DATE : 9/26/2018 4:07 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 363 E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(21)

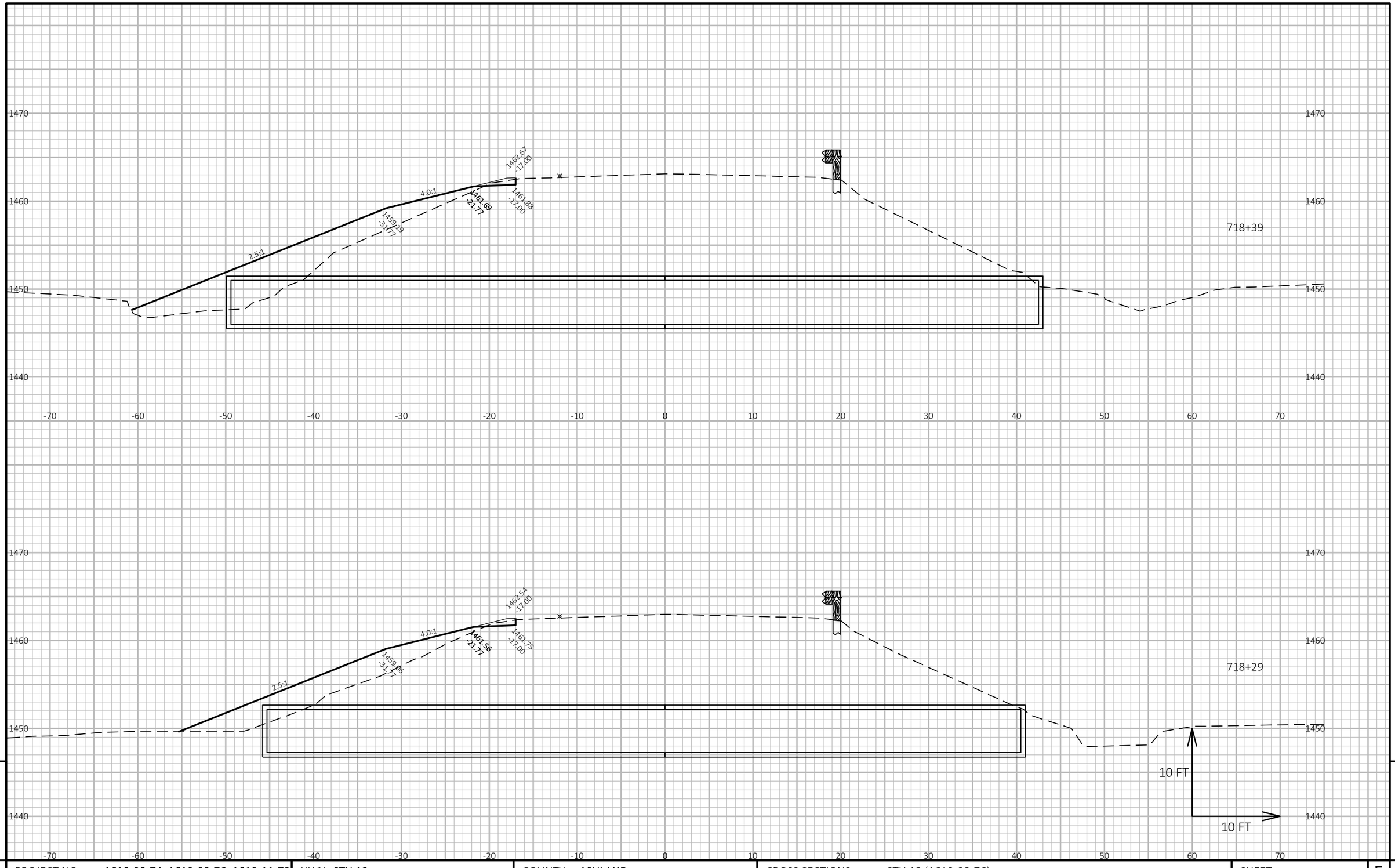
PLOT DATE : 9/26/2018 4:07 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 364	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(22)

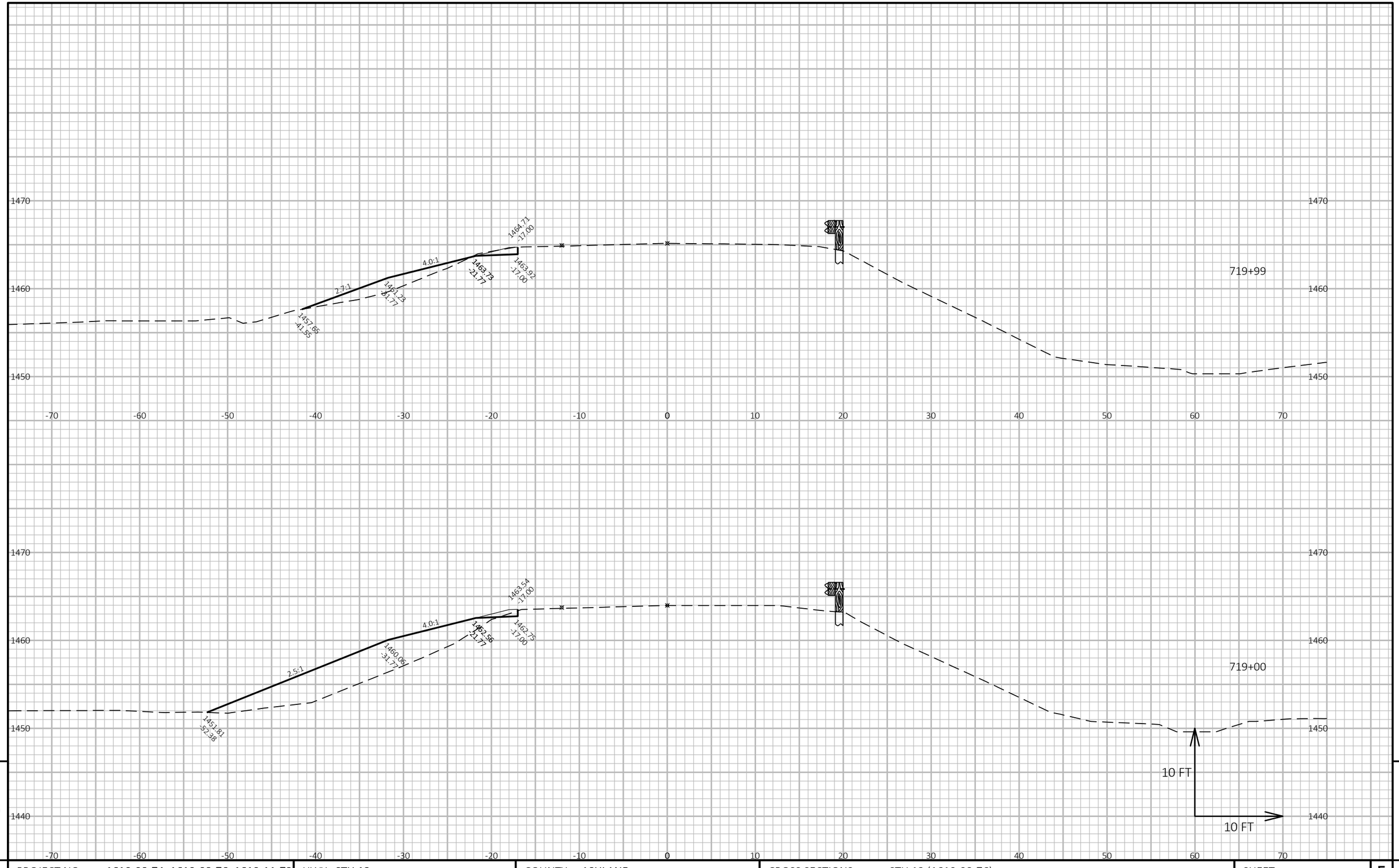
PLOT DATE : 9/26/2018 4:08 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



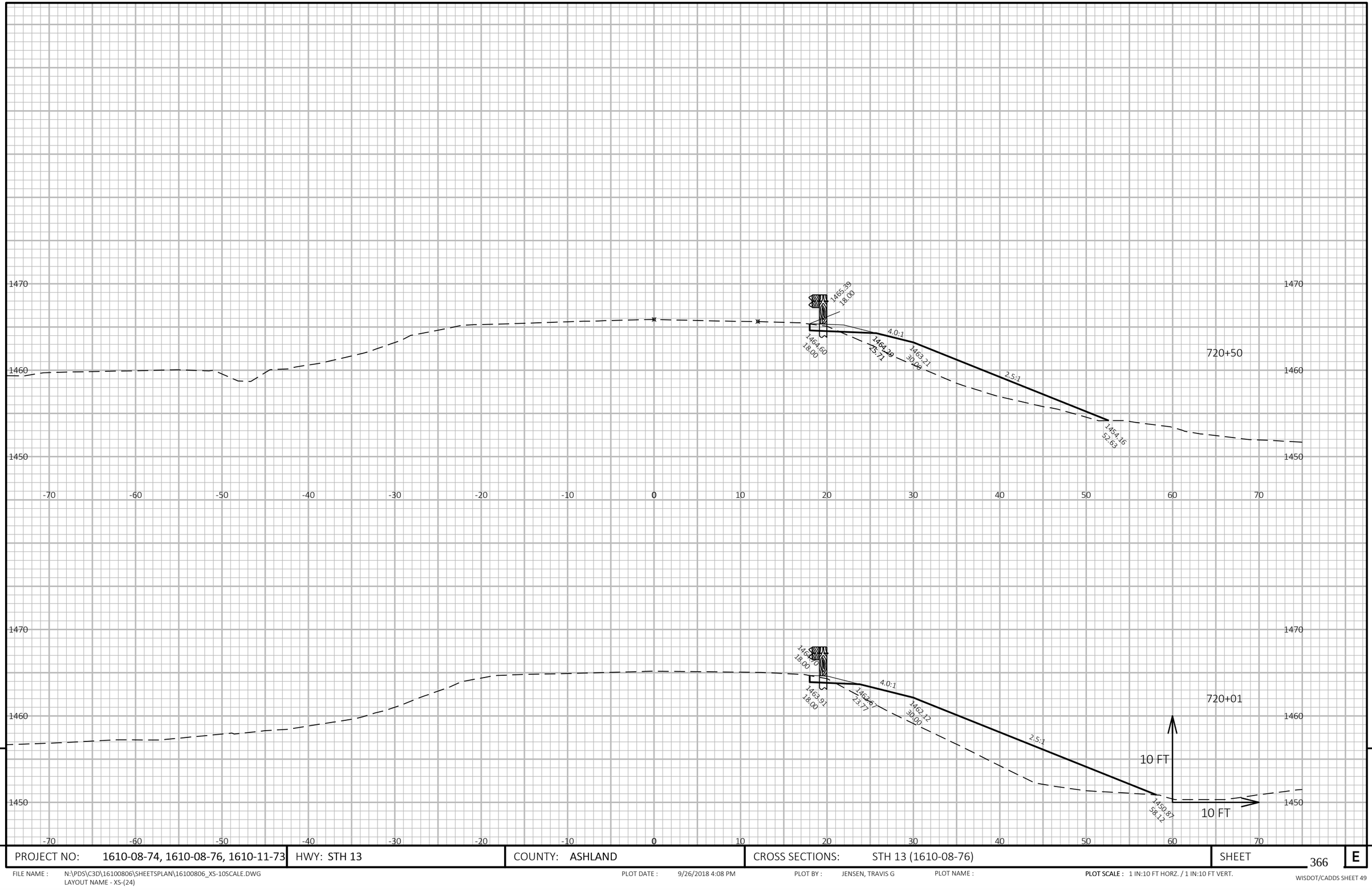
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 365	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(23)

PLOT DATE : 9/26/2018 4:08 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 366	E

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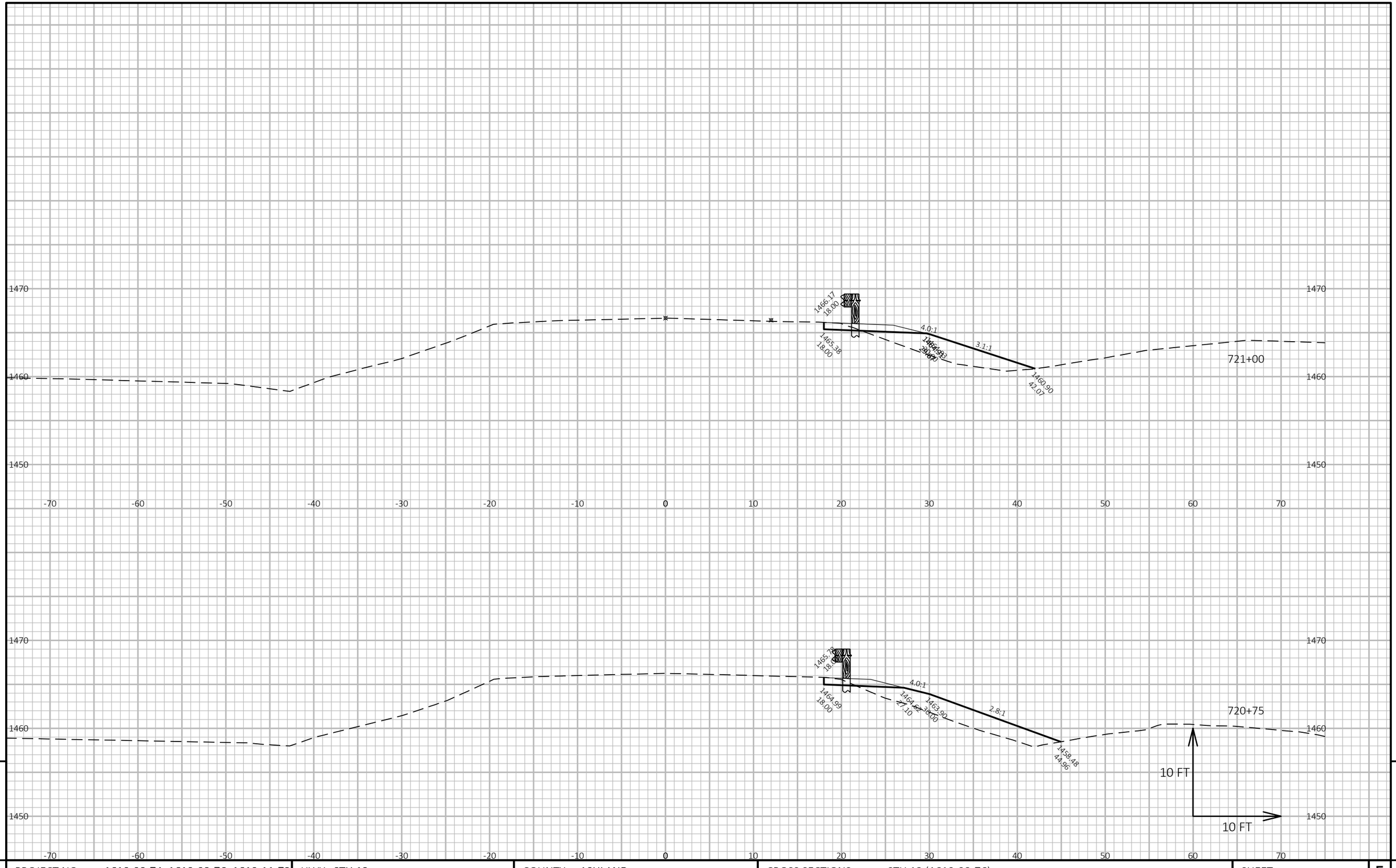
PLOT DATE : 9/26/2018 4:08 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 367	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(25)

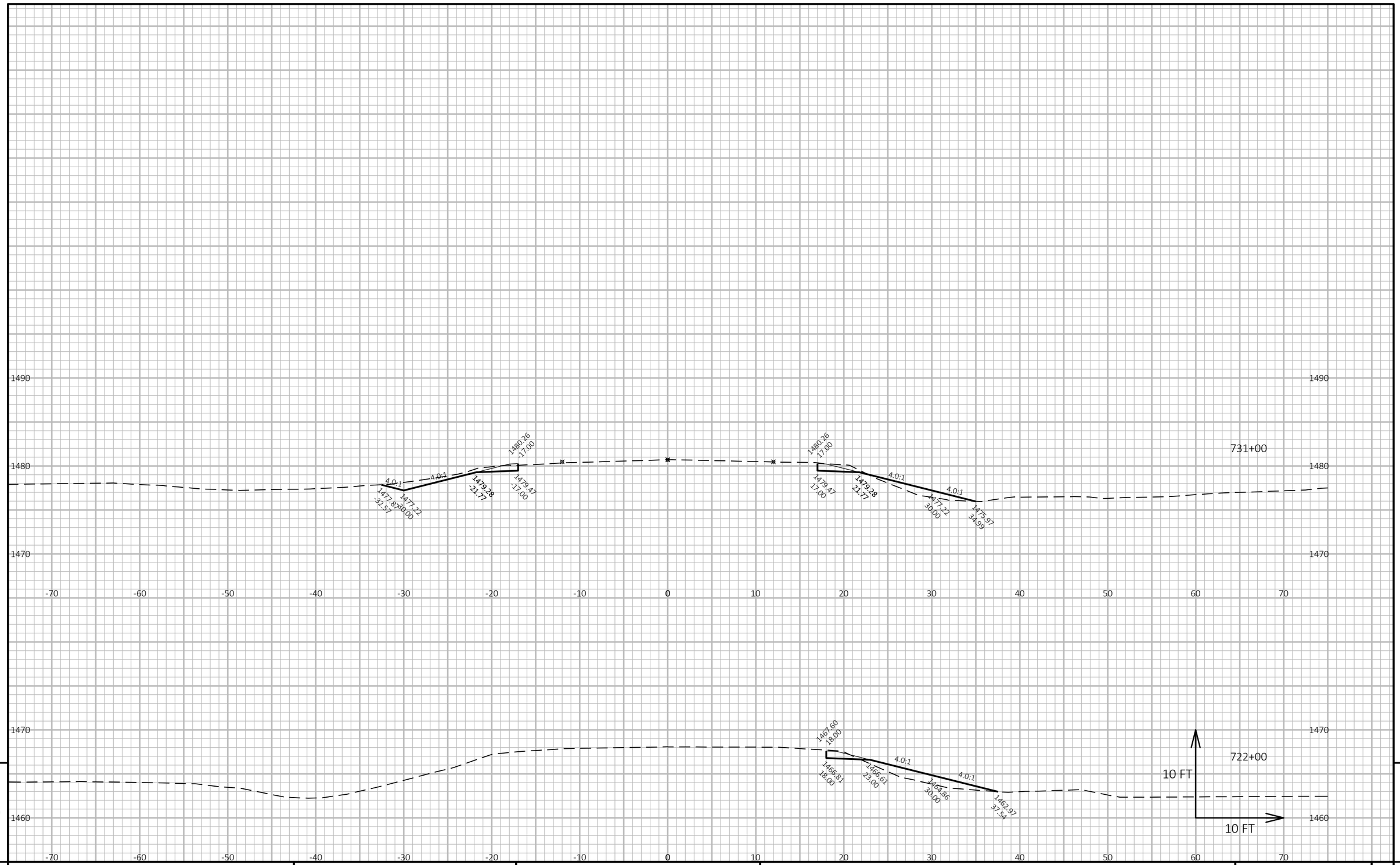
PLOT DATE : 9/26/2018 4:08 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 368	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(26)

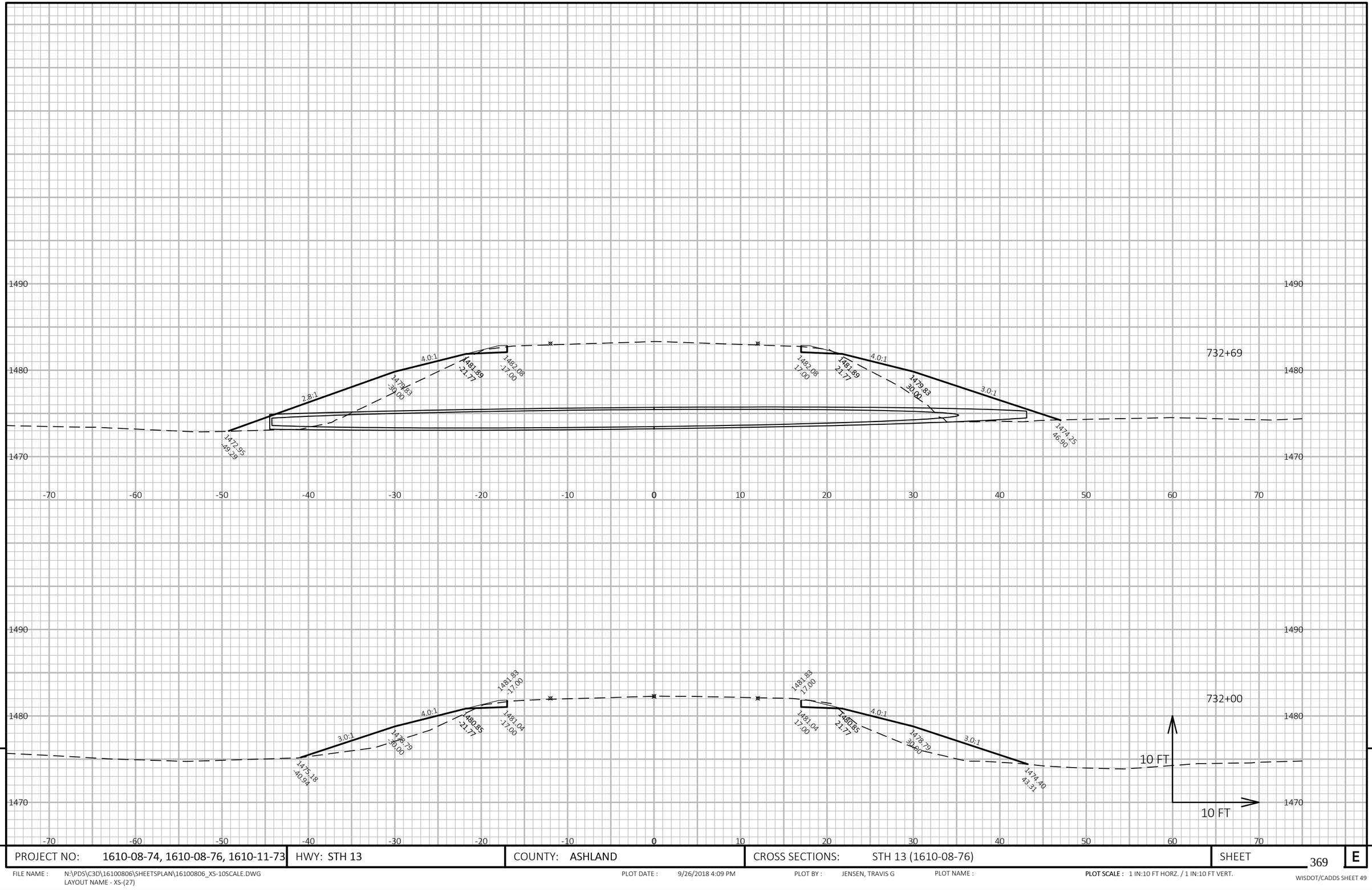
PLOT DATE : 9/26/2018 4:08 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49

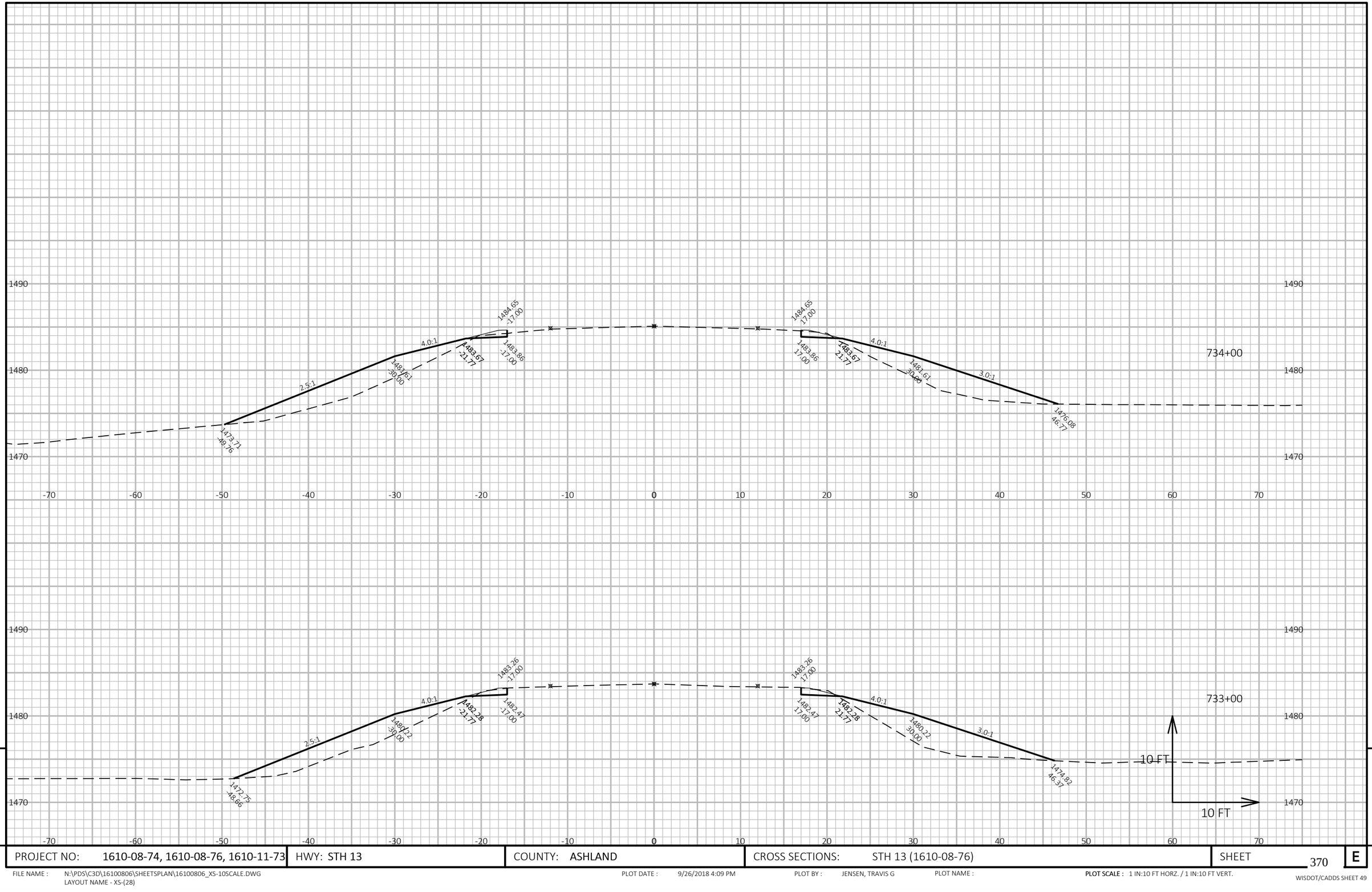


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 369	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(27)

PLOT DATE : 9/26/2018 4:09 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

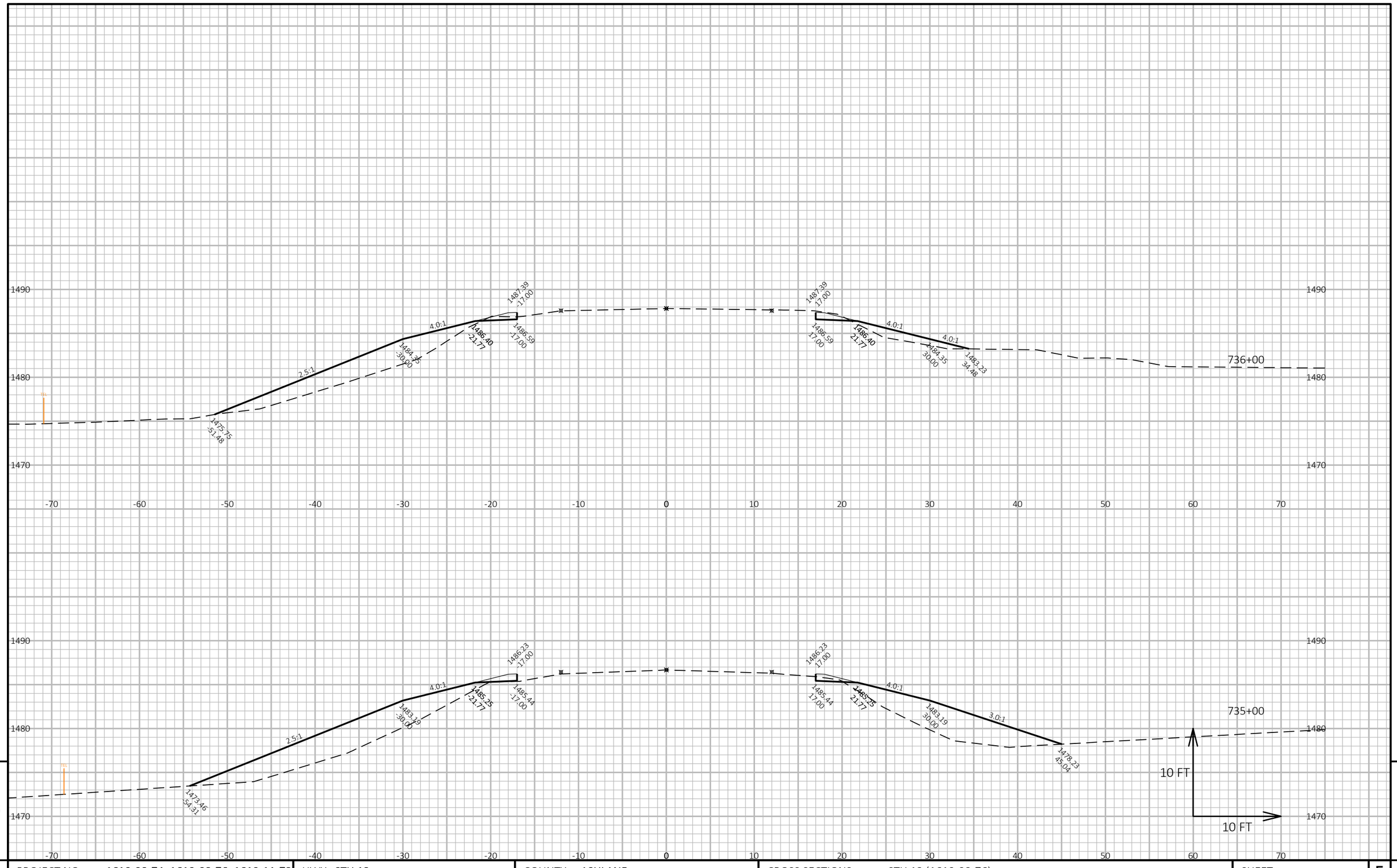


PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 370	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(28)

PLOT DATE : 9/26/2018 4:09 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 371	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(29)

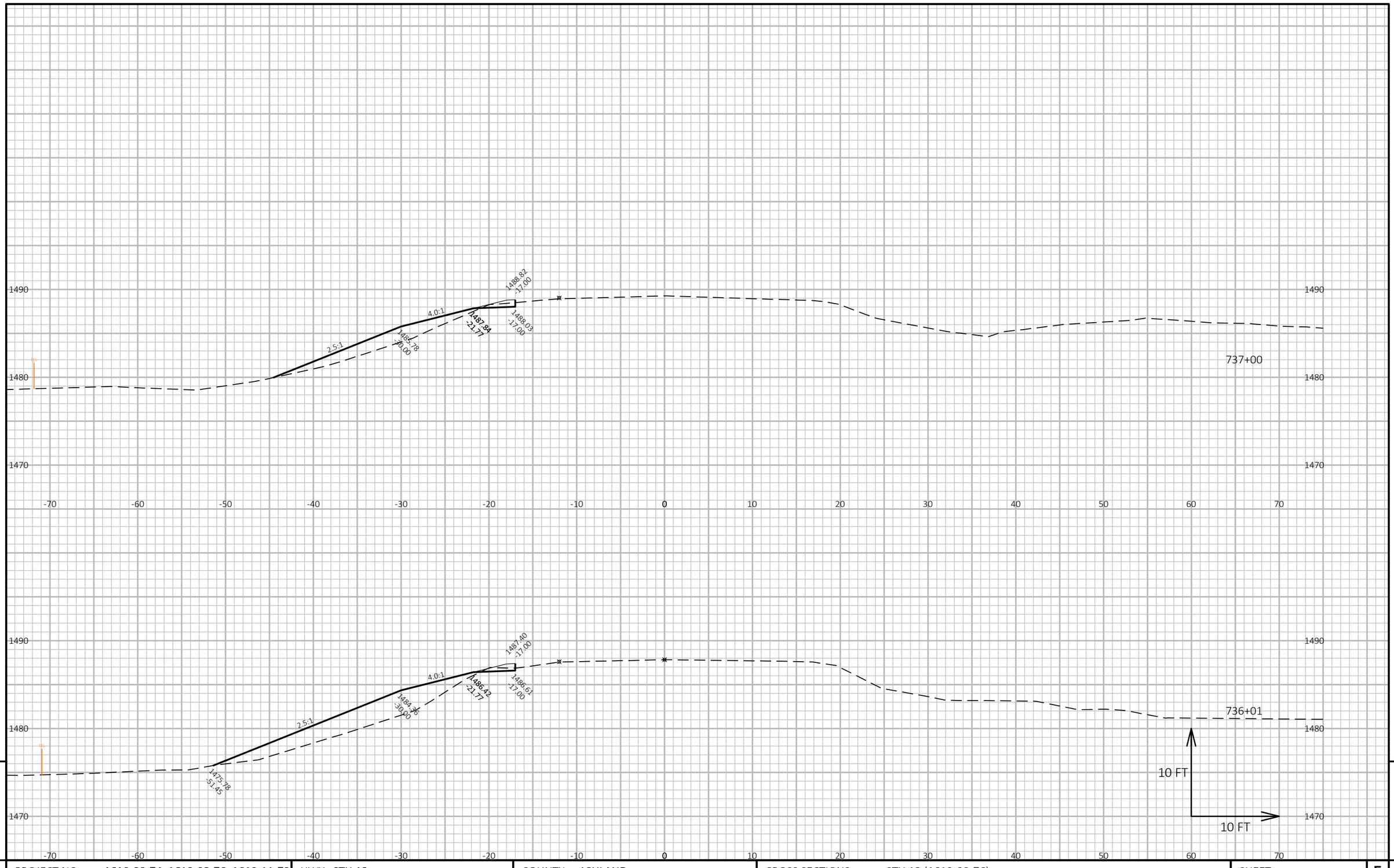
PLOT DATE : 9/26/2018 4:09 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 372	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(30)

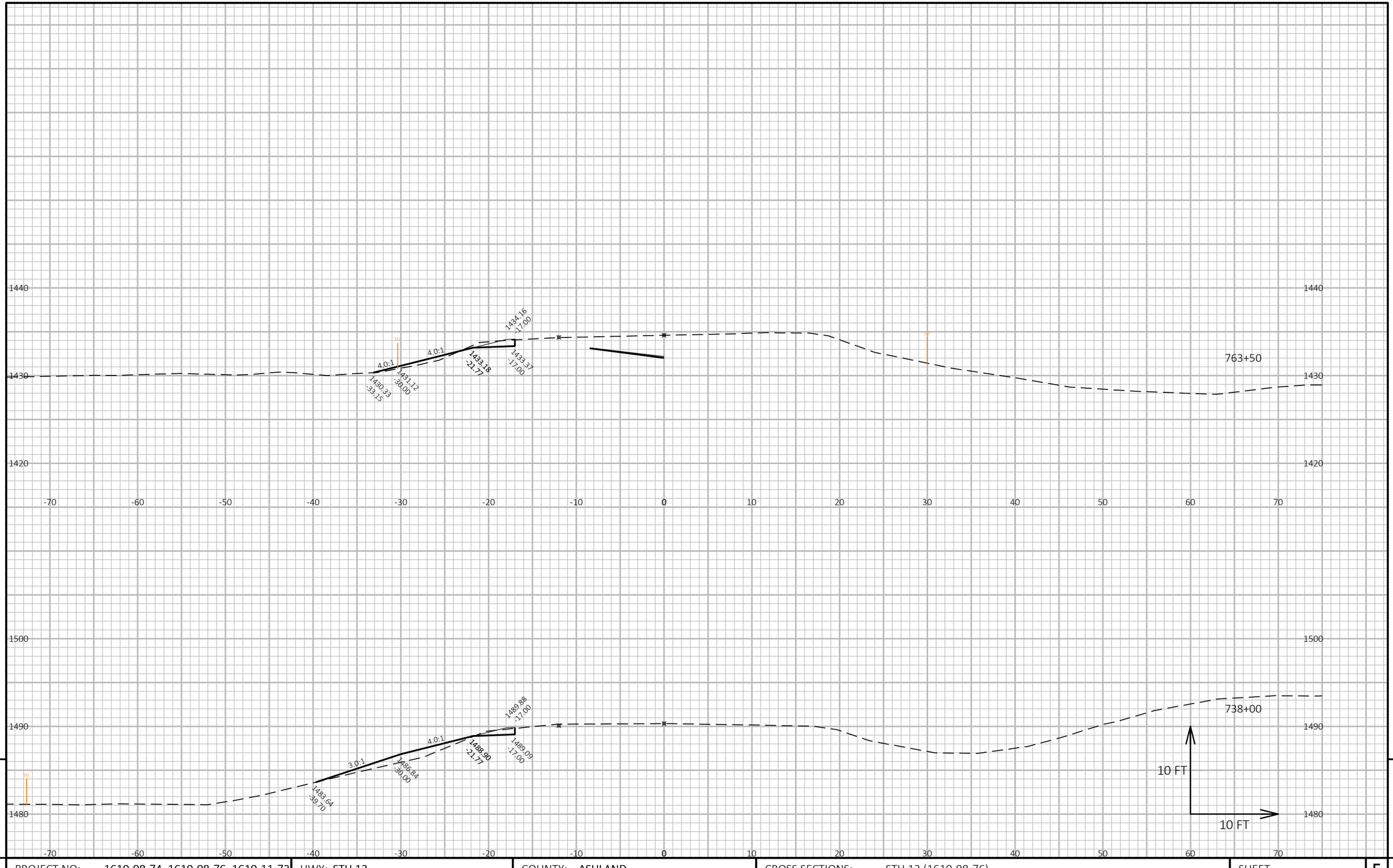
PLOT DATE : 9/26/2018 4:09 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 373	E

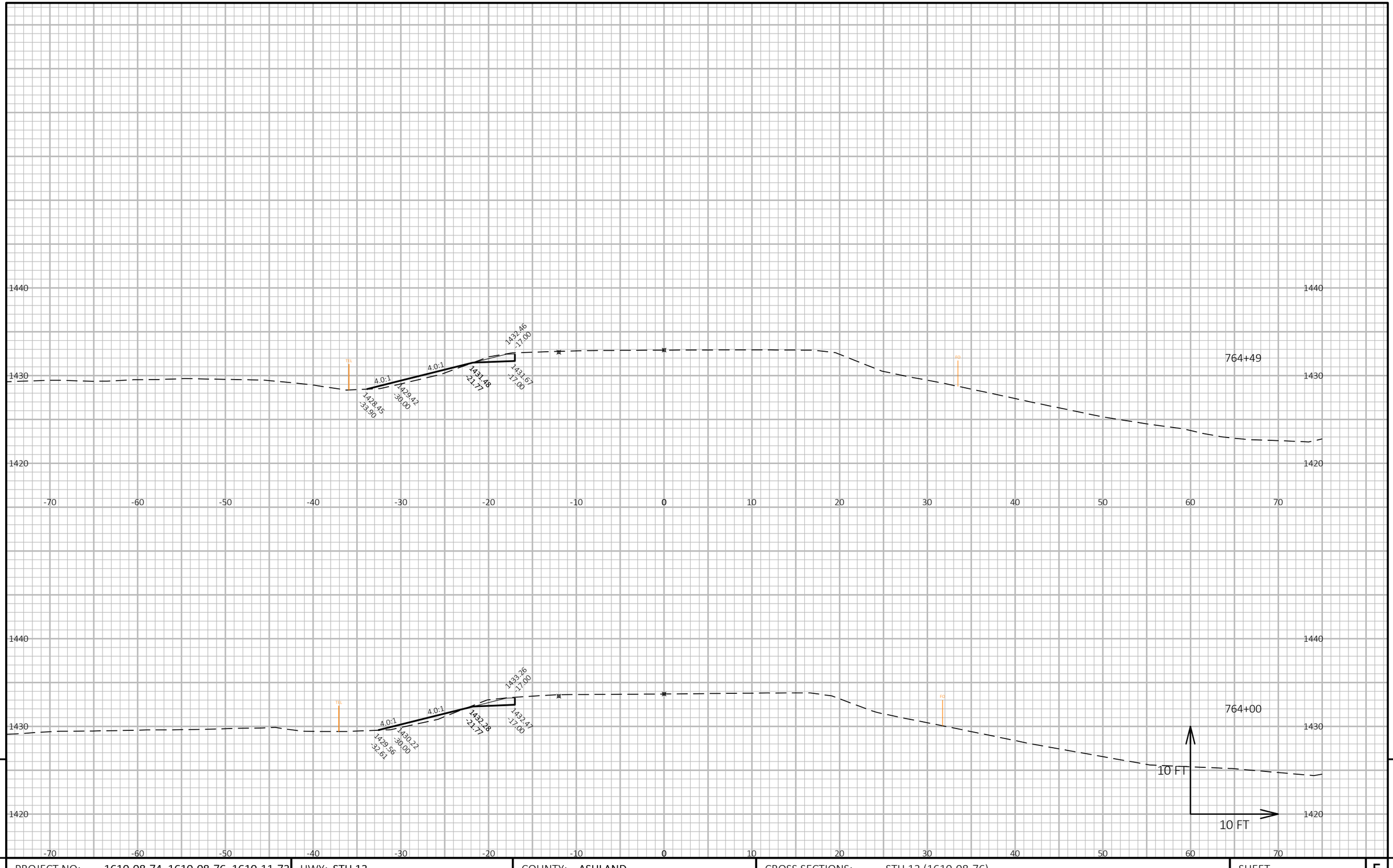
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LAYOUT NAME - XS-(31)

PLOT DATE : 9/26/2018 4:10 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 374	E

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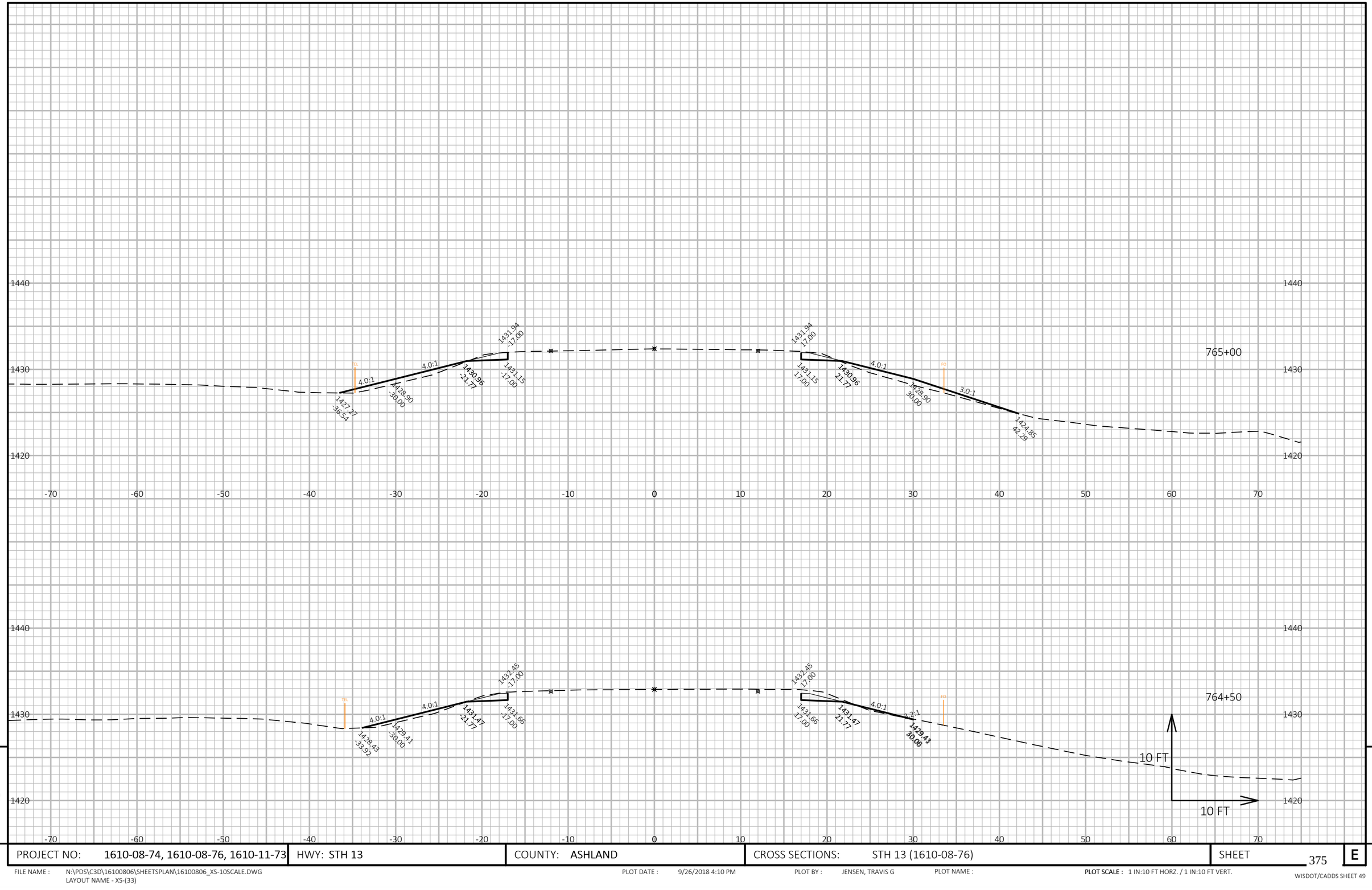
PLOT DATE : 9/26/2018 4:10 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 375	E

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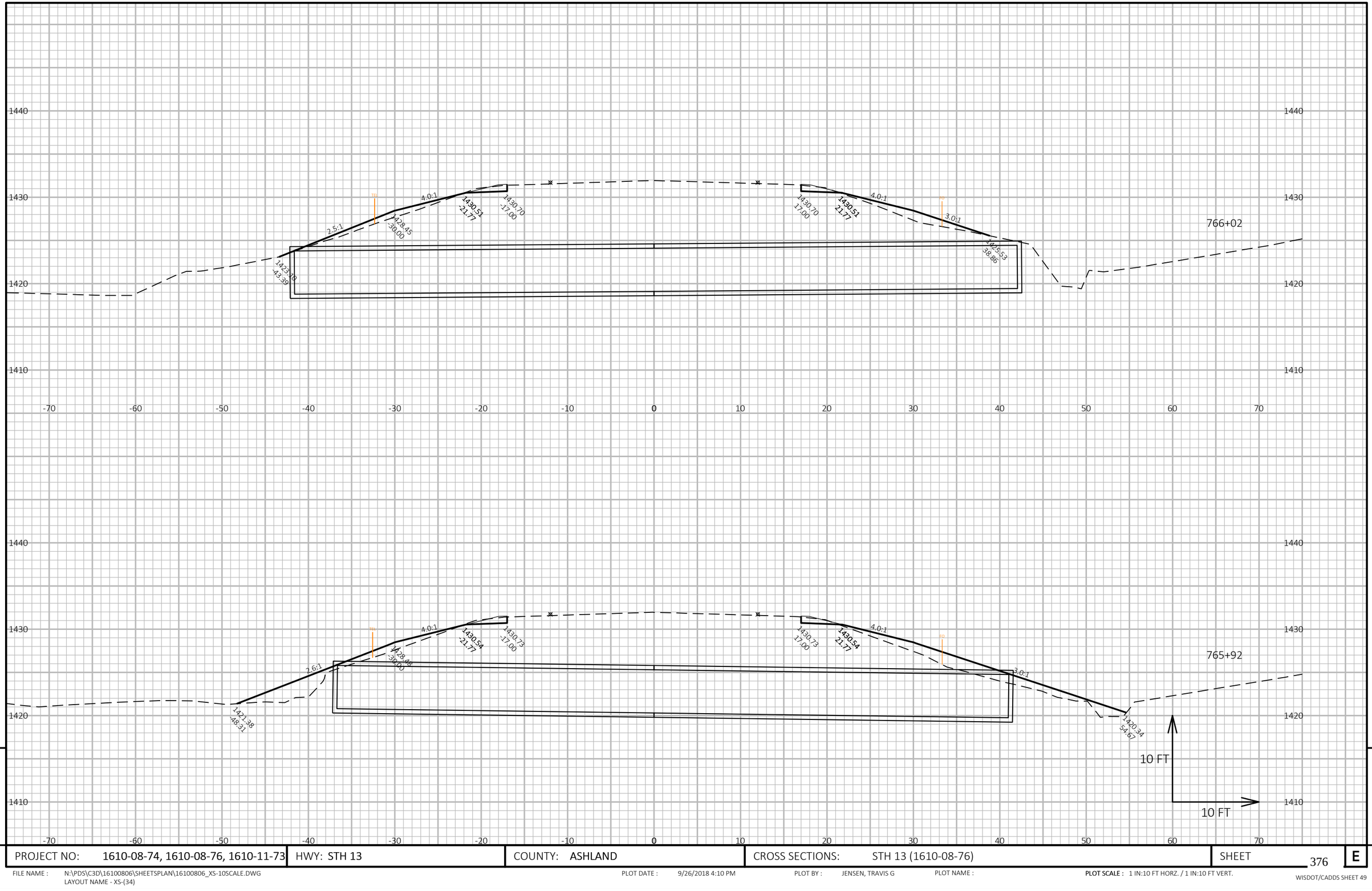
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PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



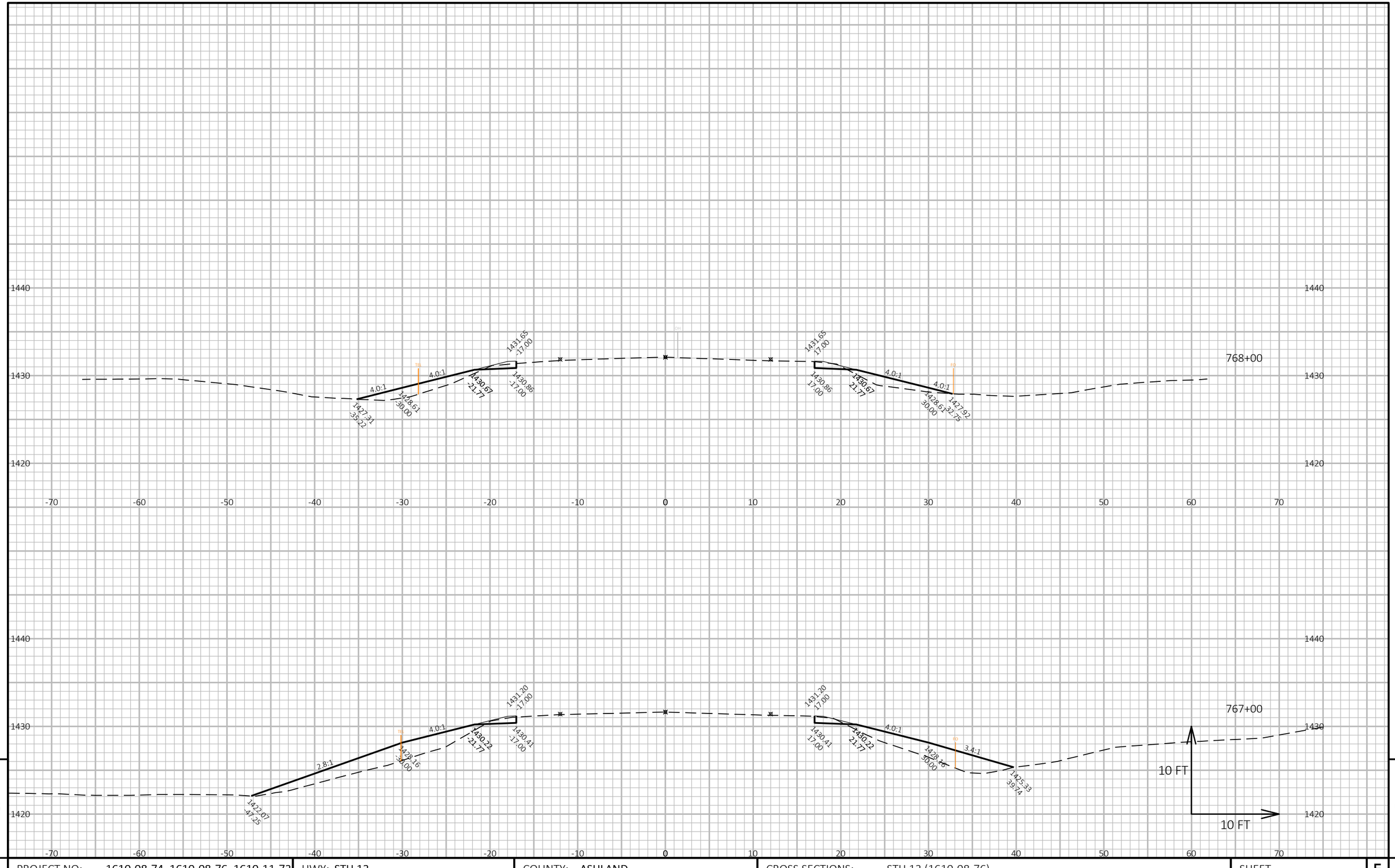
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 376	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(34)

PLOT DATE : 9/26/2018 4:10 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 377	E

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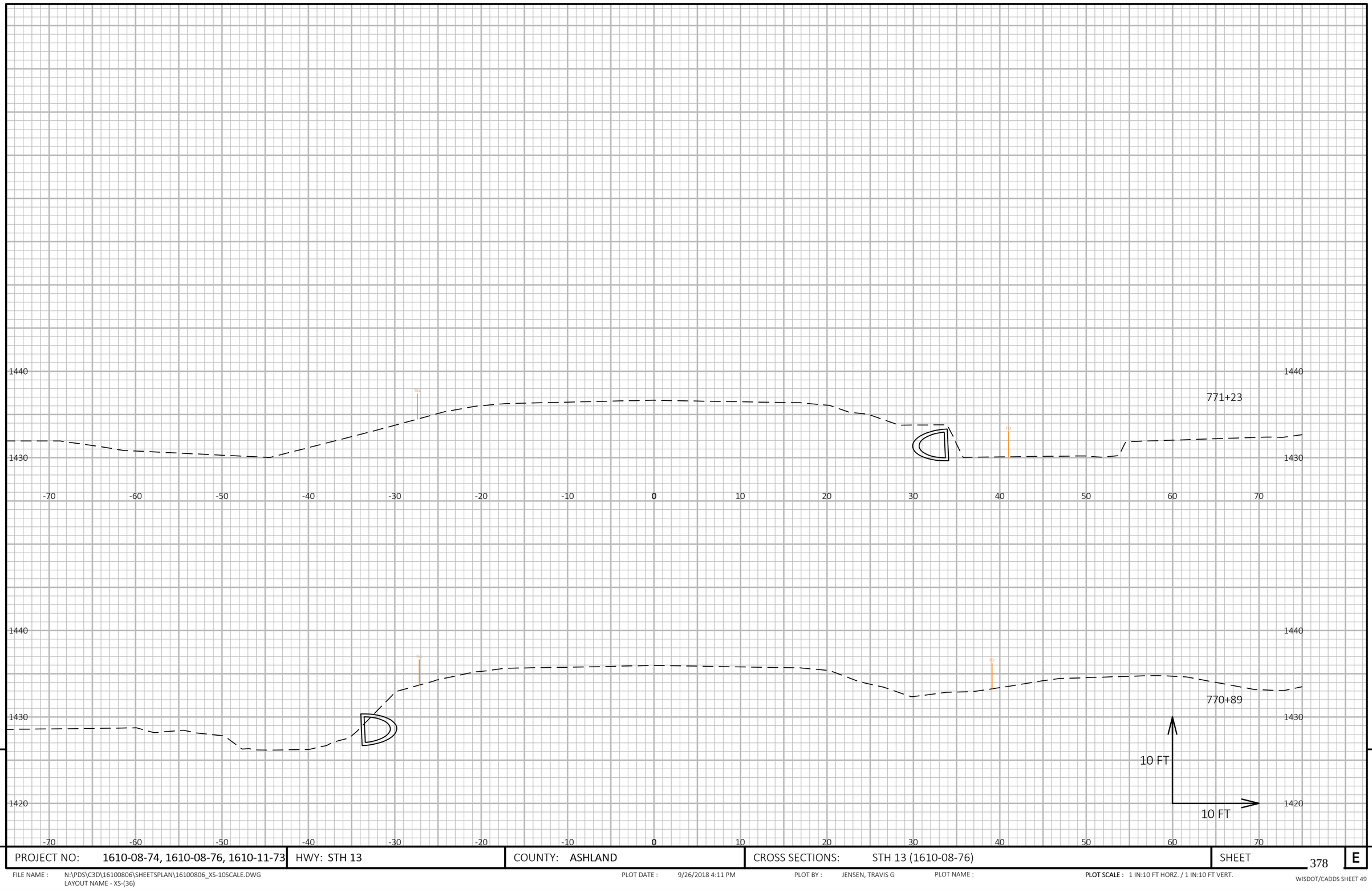
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PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

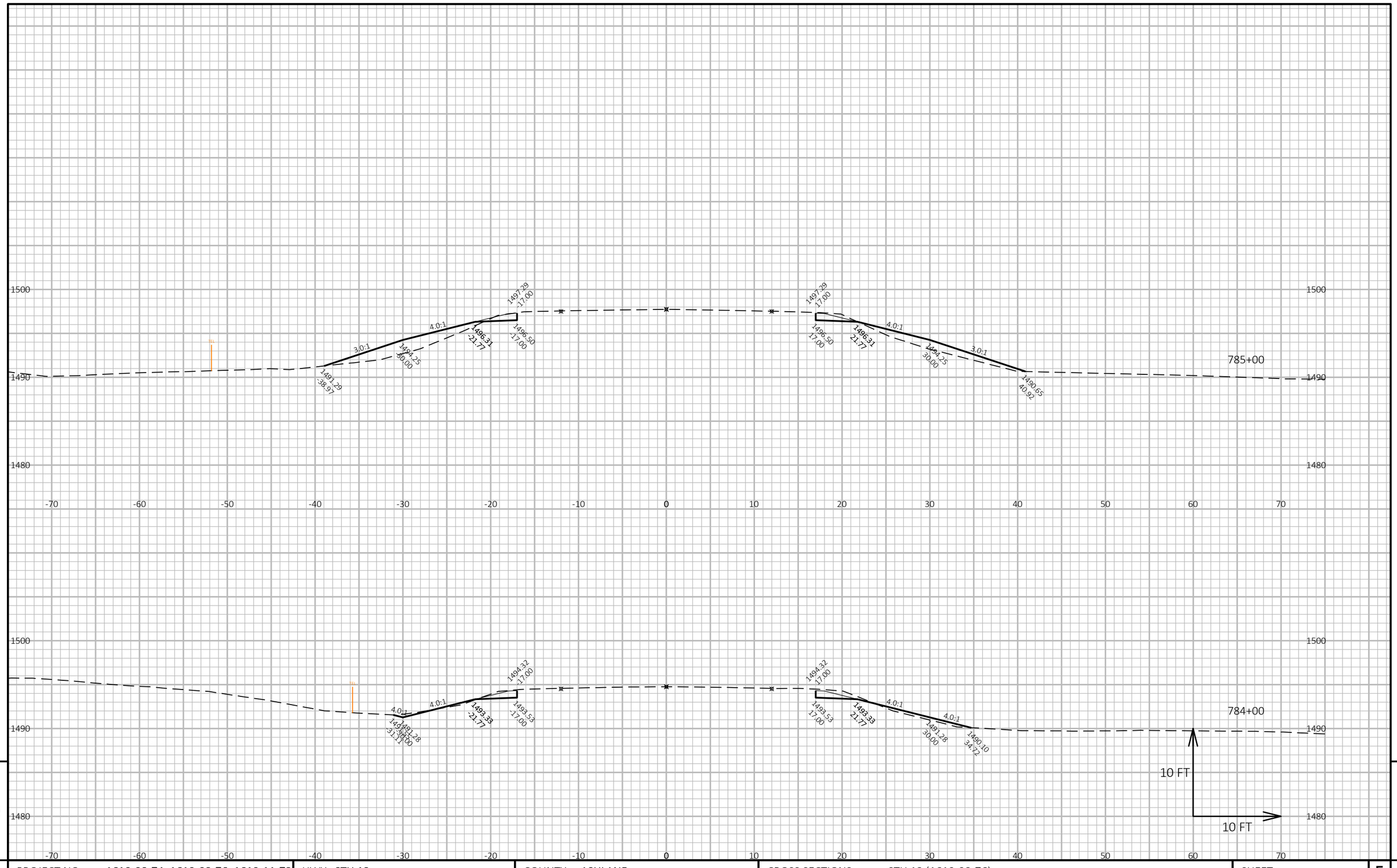
WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 378	E



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 379	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(37)

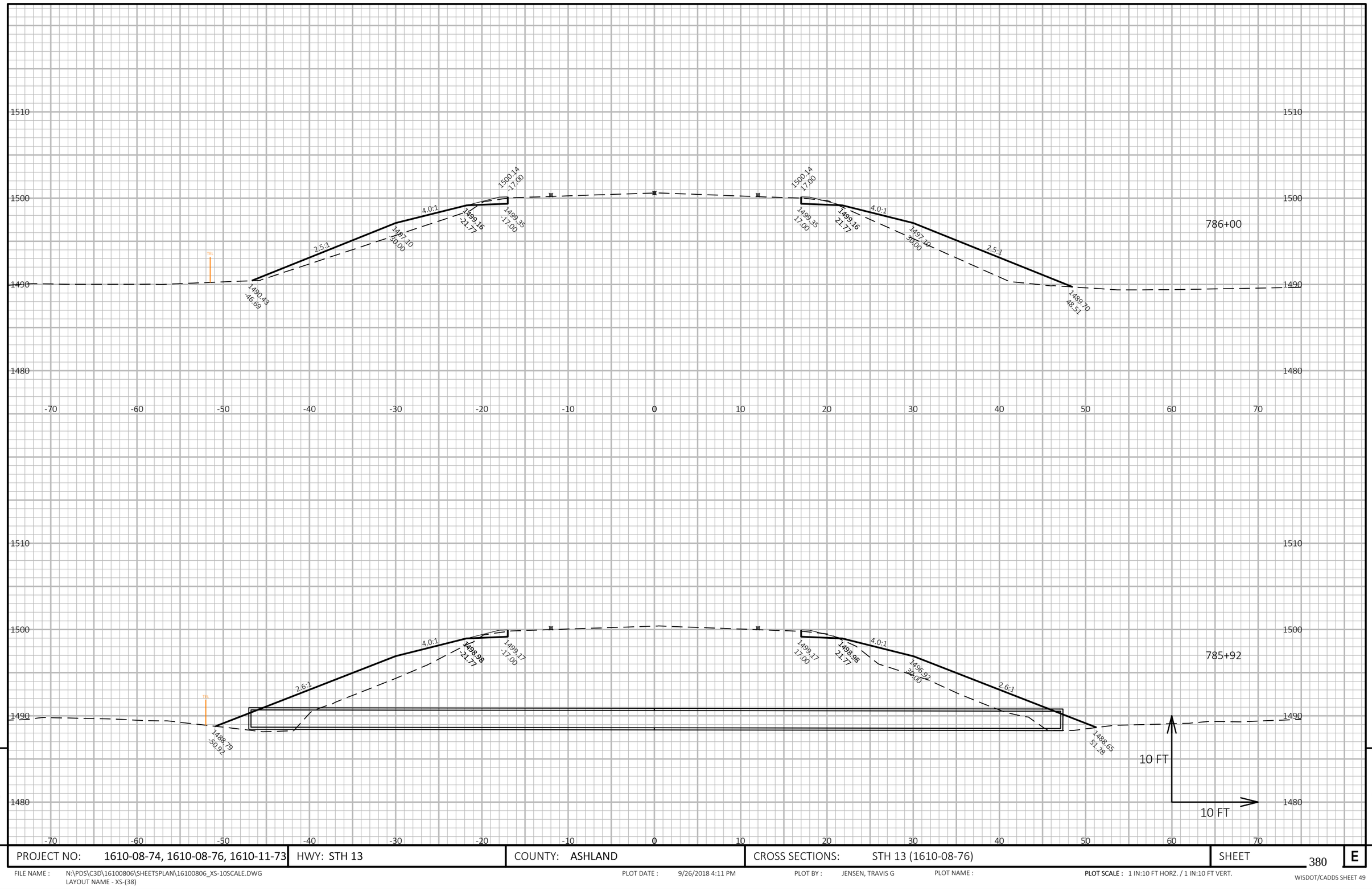
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PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 380	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(38)

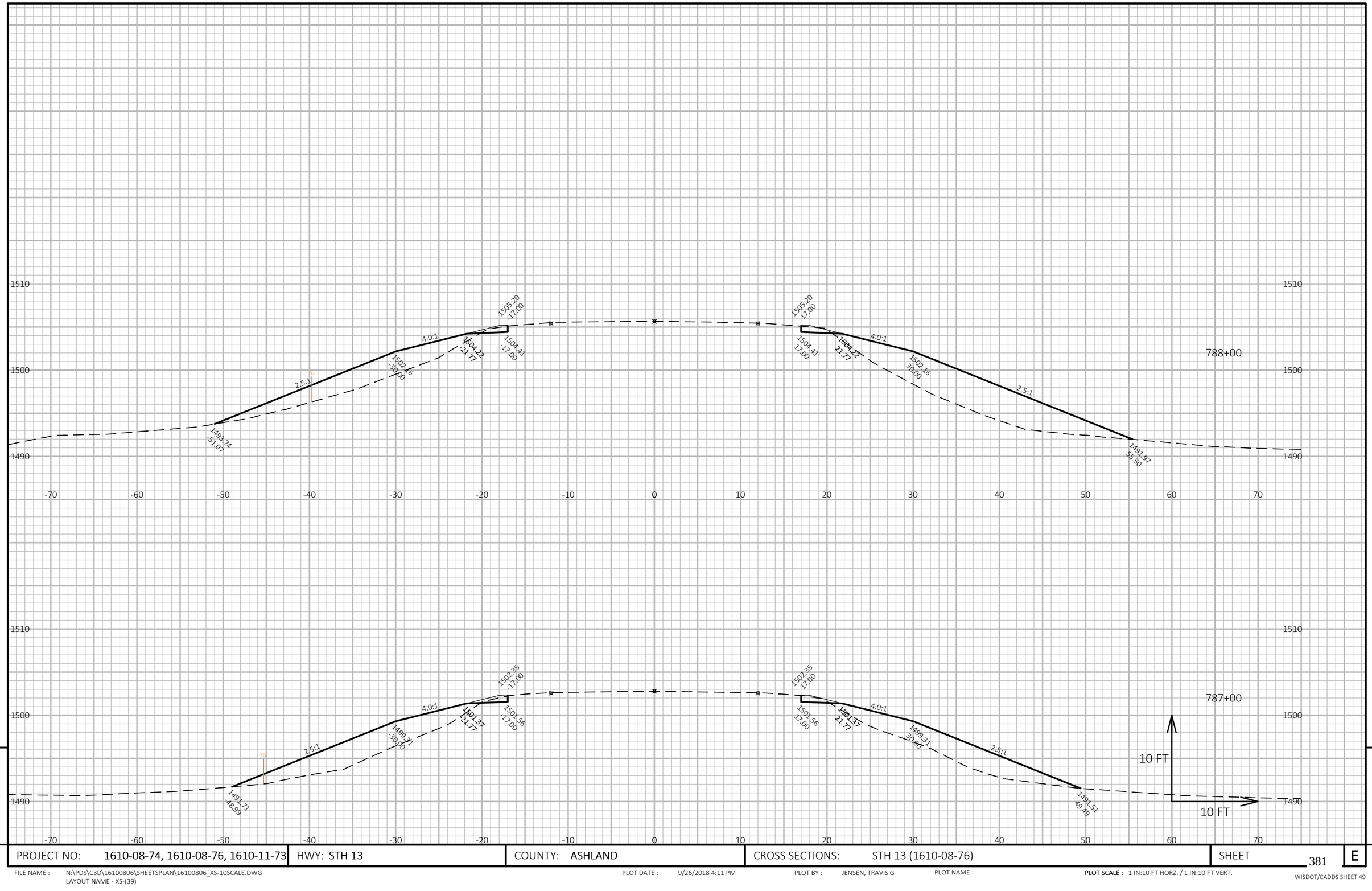
PLOT DATE : 9/26/2018 4:11 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 381	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(39)

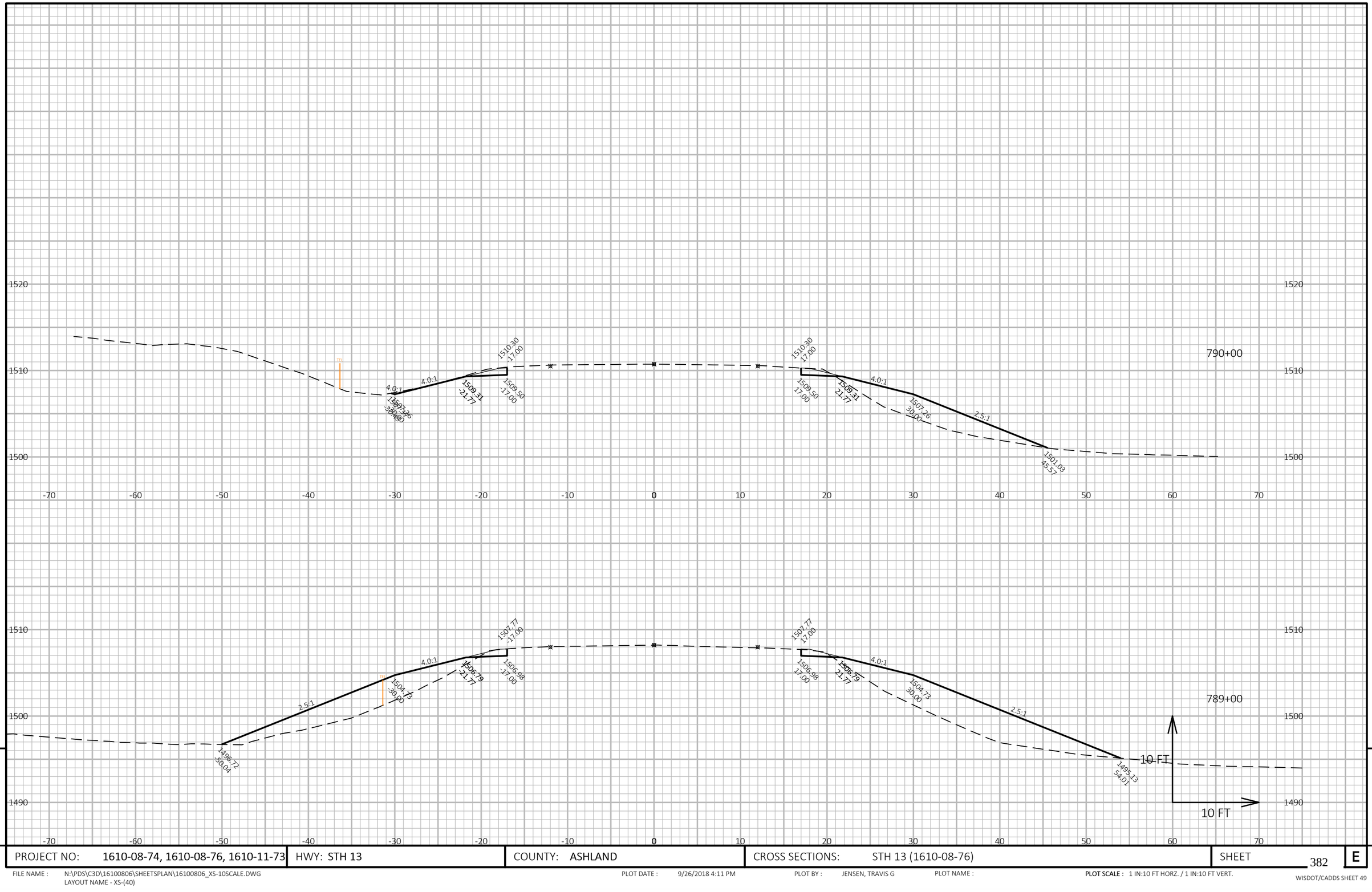
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PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 382 E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(40)

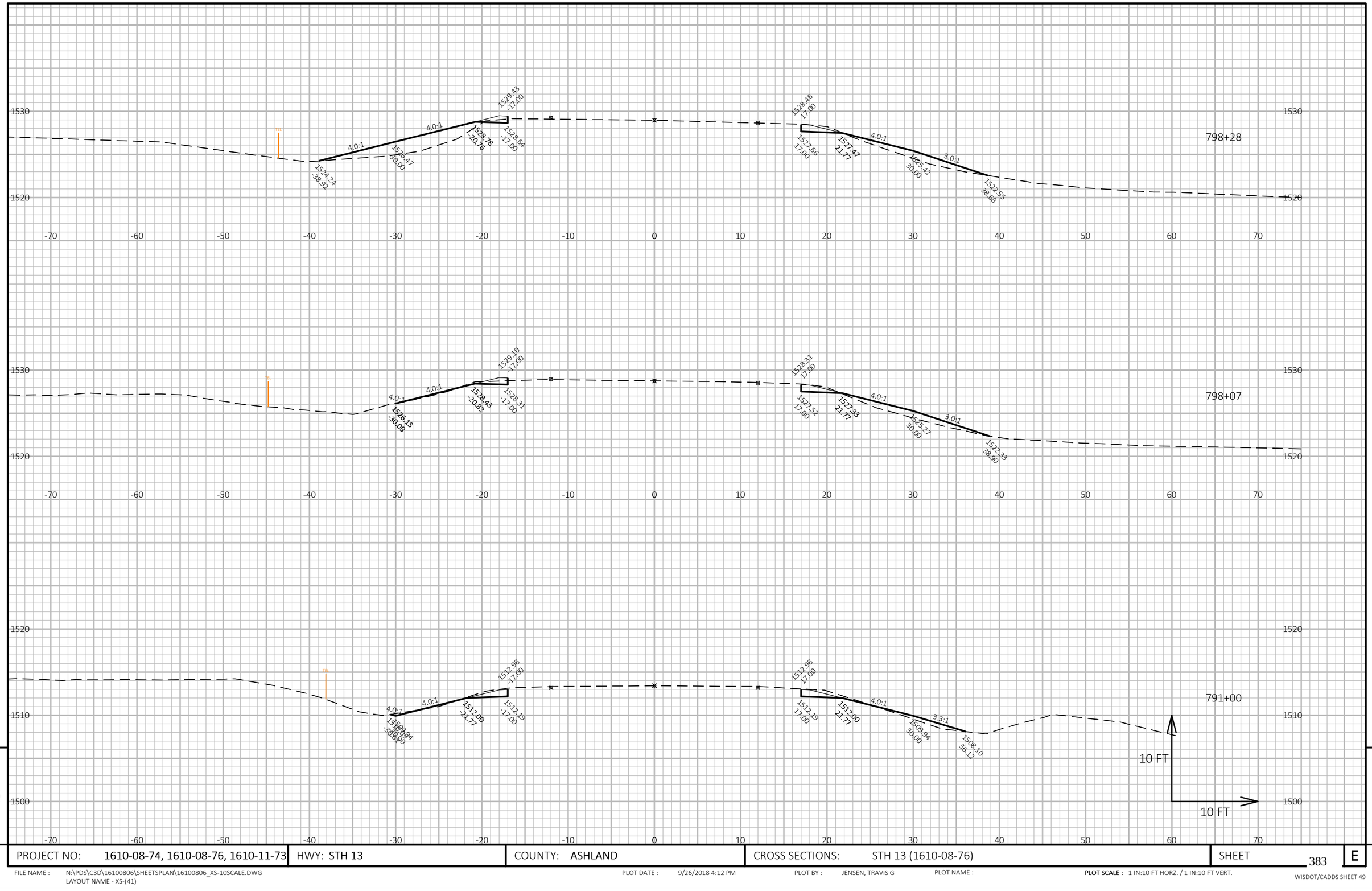
PLOT DATE : 9/26/2018 4:11 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 383	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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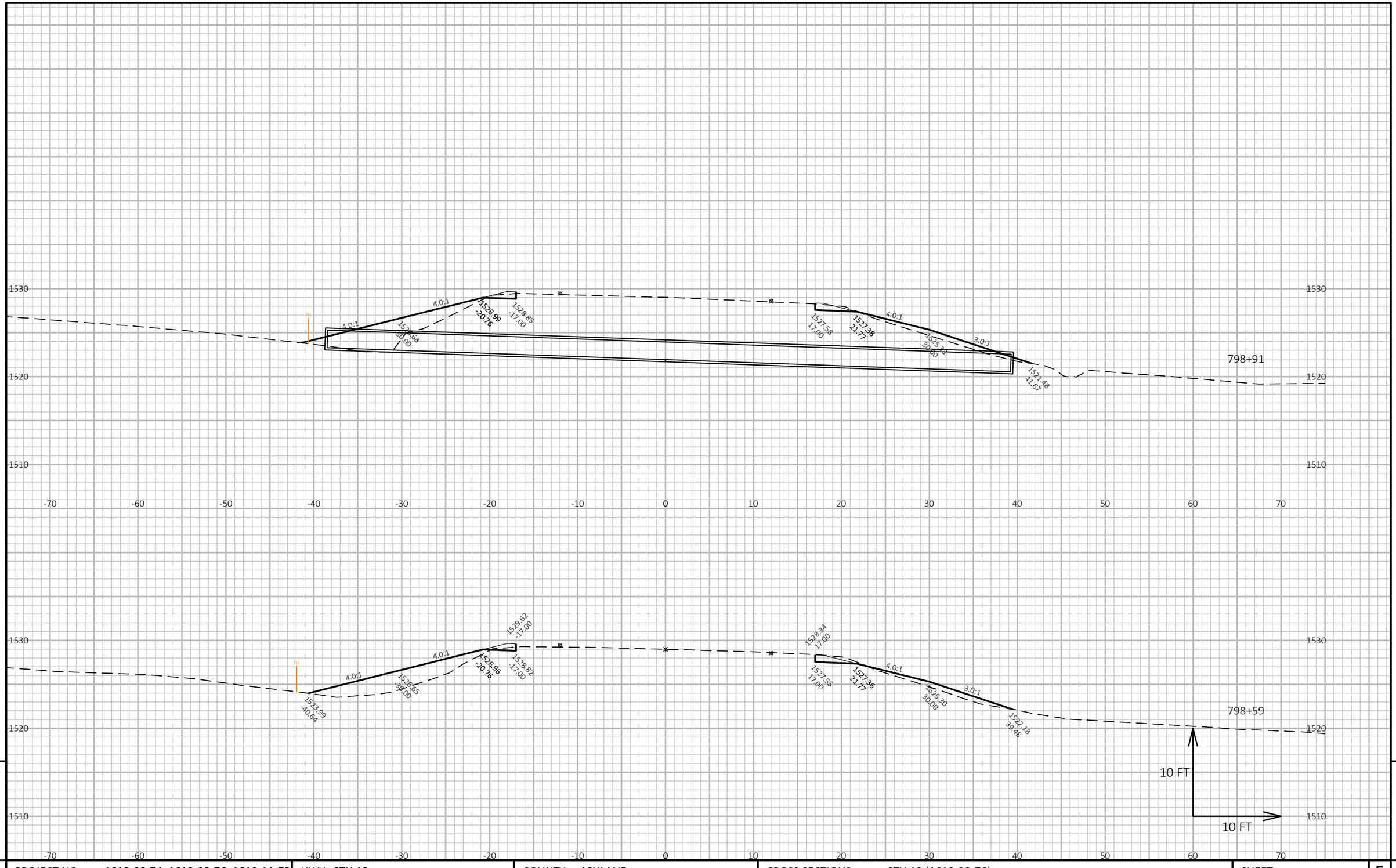
PLOT DATE : 9/26/2018 4:12 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 384	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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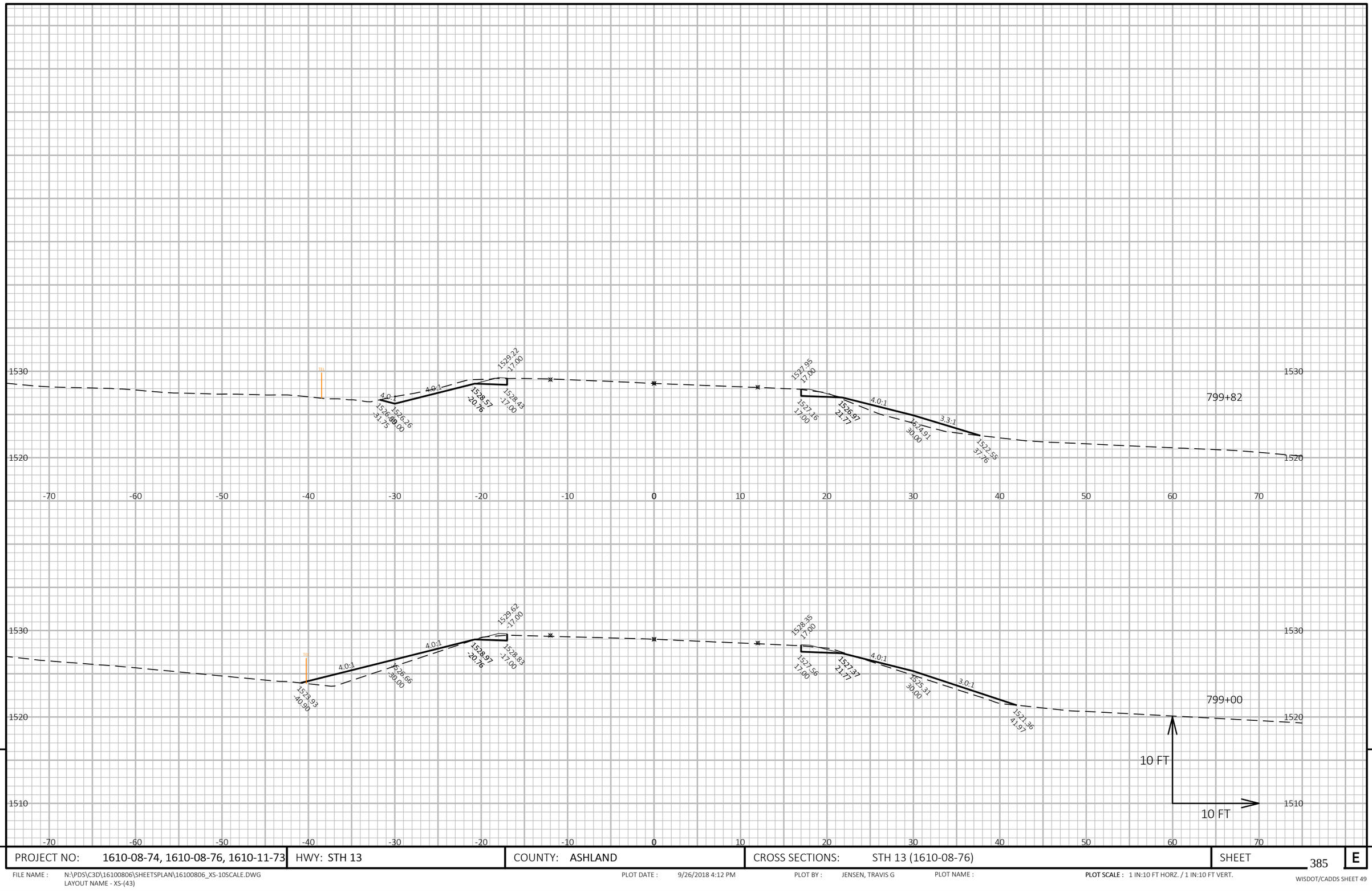
PLOT DATE : 9/26/2018 4:12 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 385	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(43)

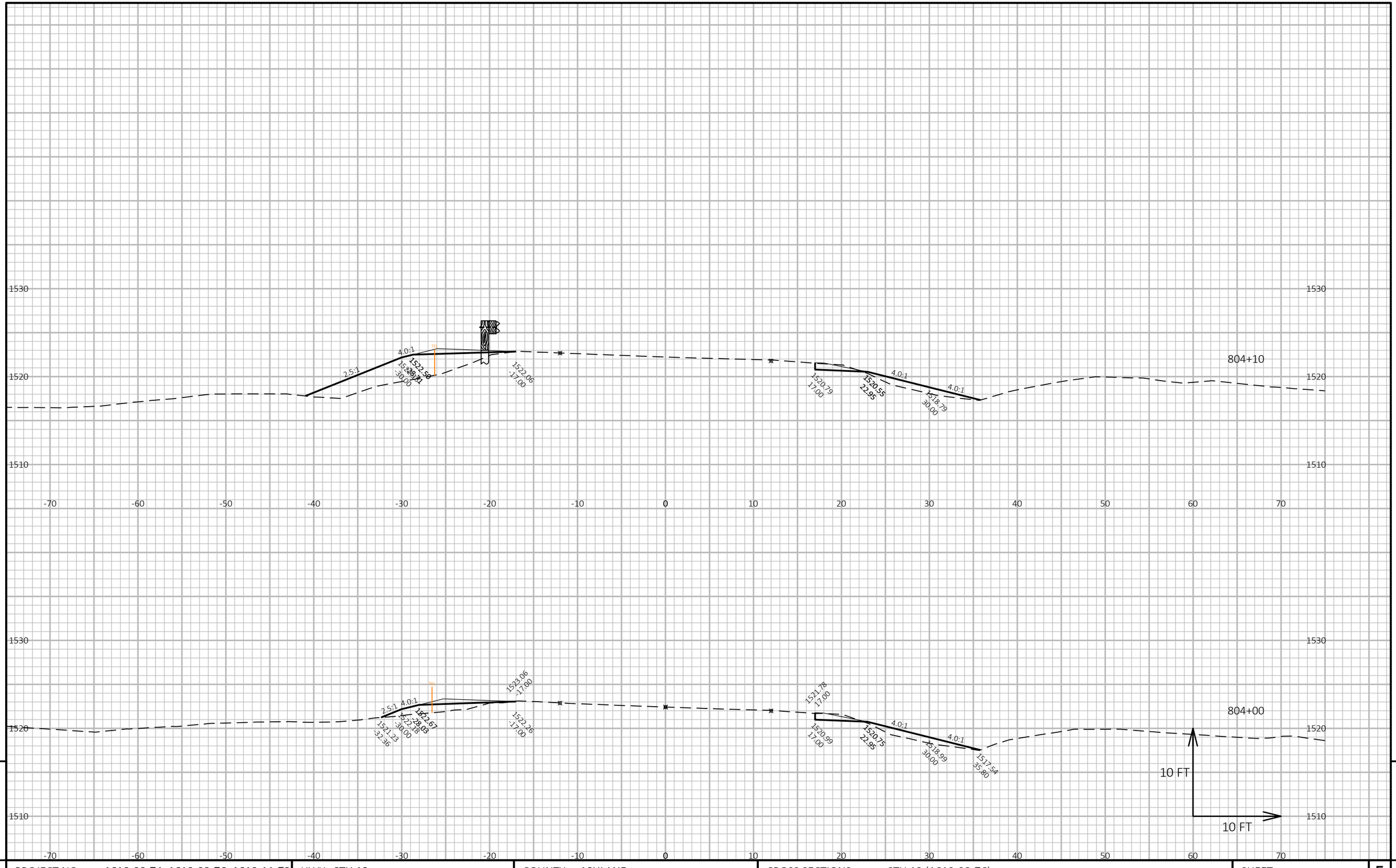
PLOT DATE : 9/26/2018 4:12 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 386	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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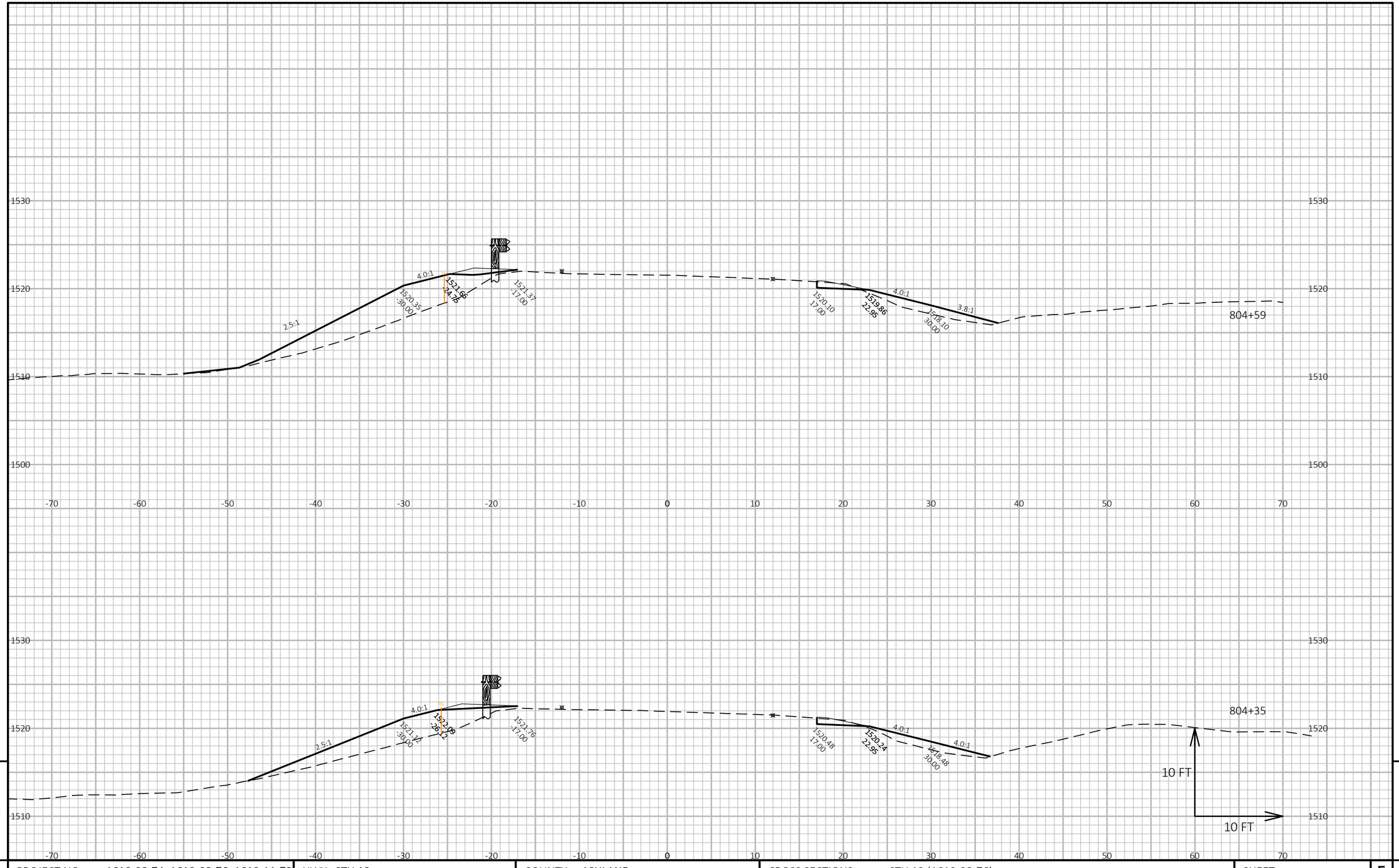
PLOT DATE : 9/26/2018 4:12 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 387	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(45)

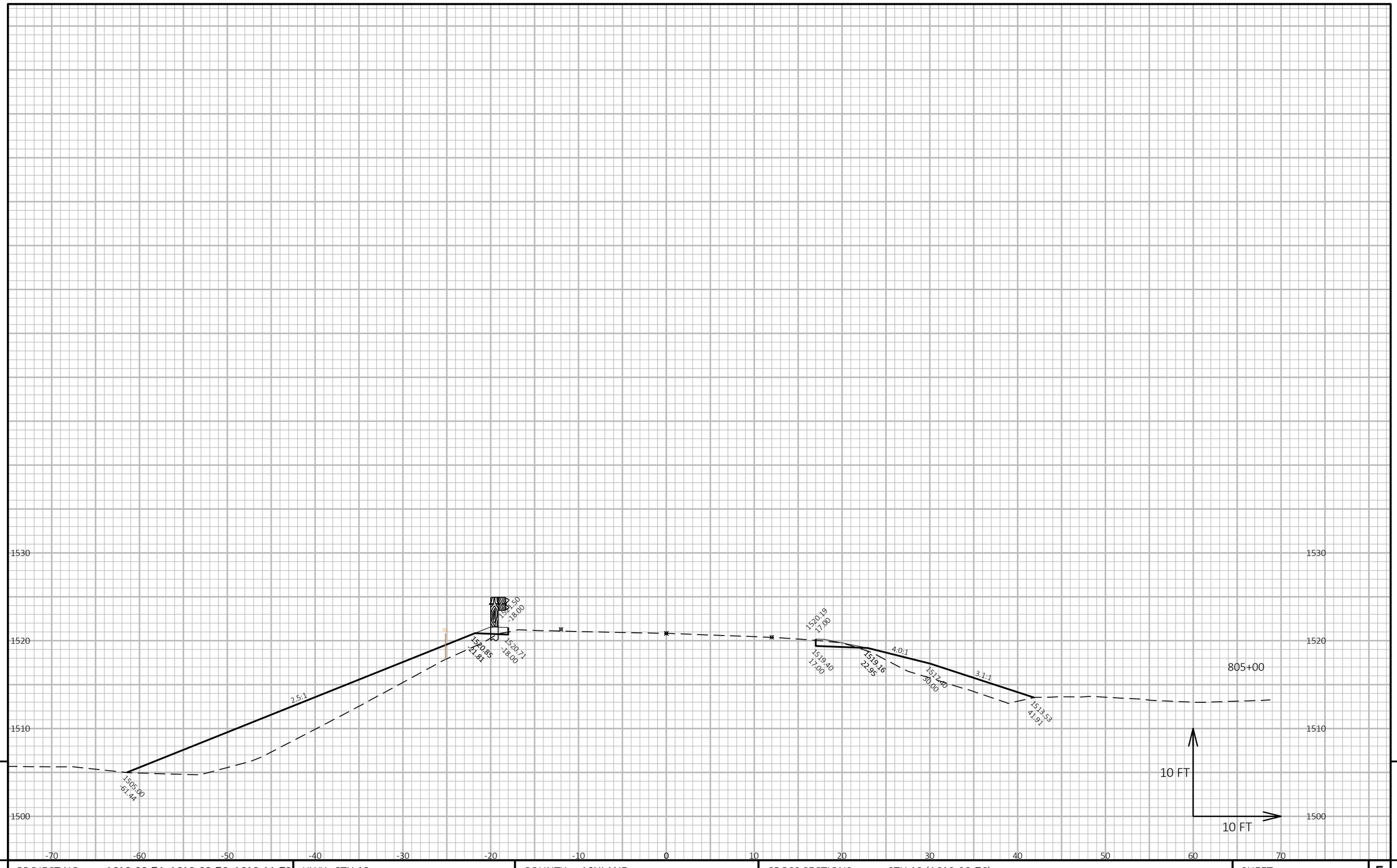
PLOT DATE : 9/26/2018 4:12 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 388	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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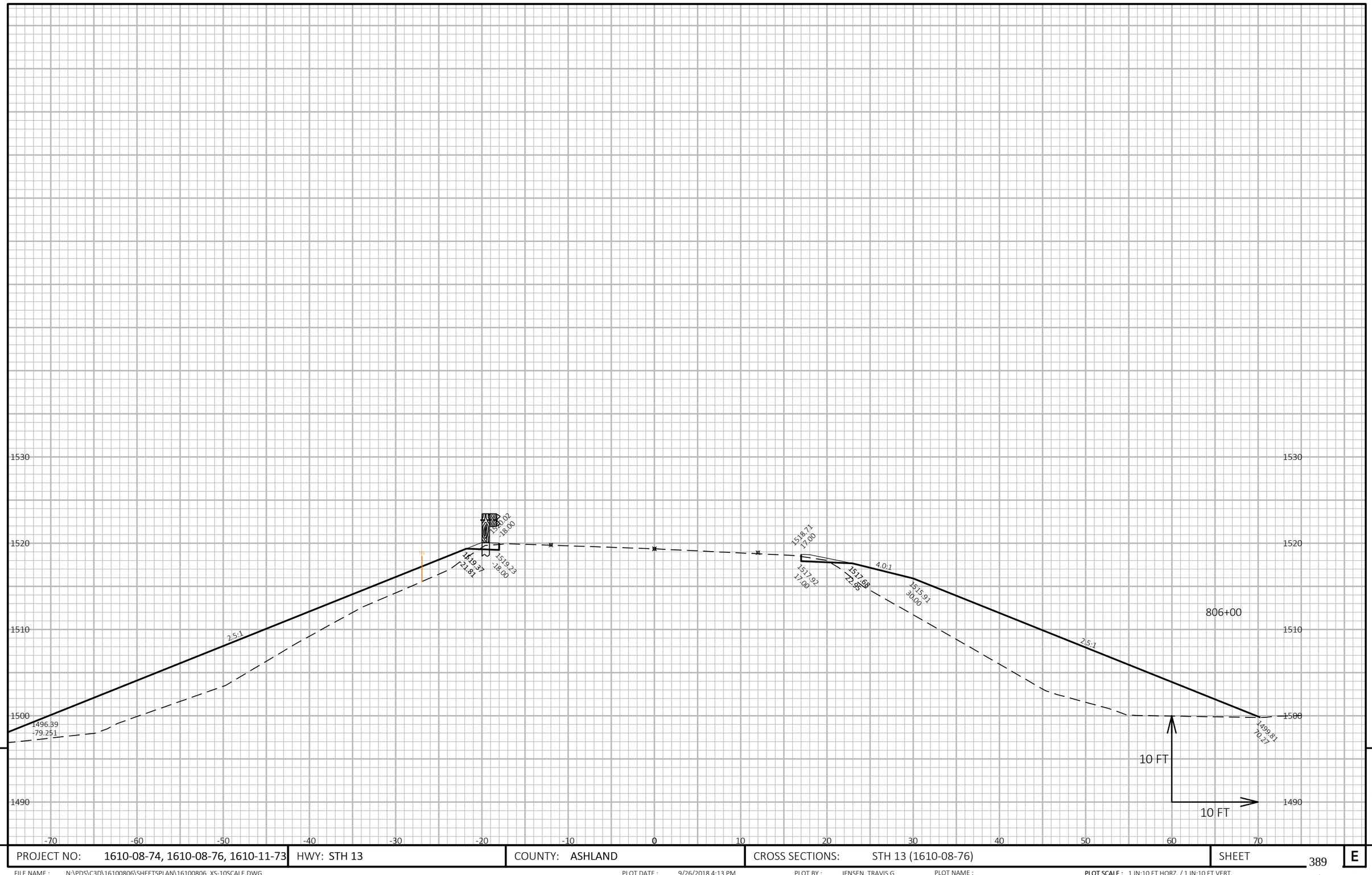
PLOT DATE : 9/26/2018 4:13 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 389	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(47)

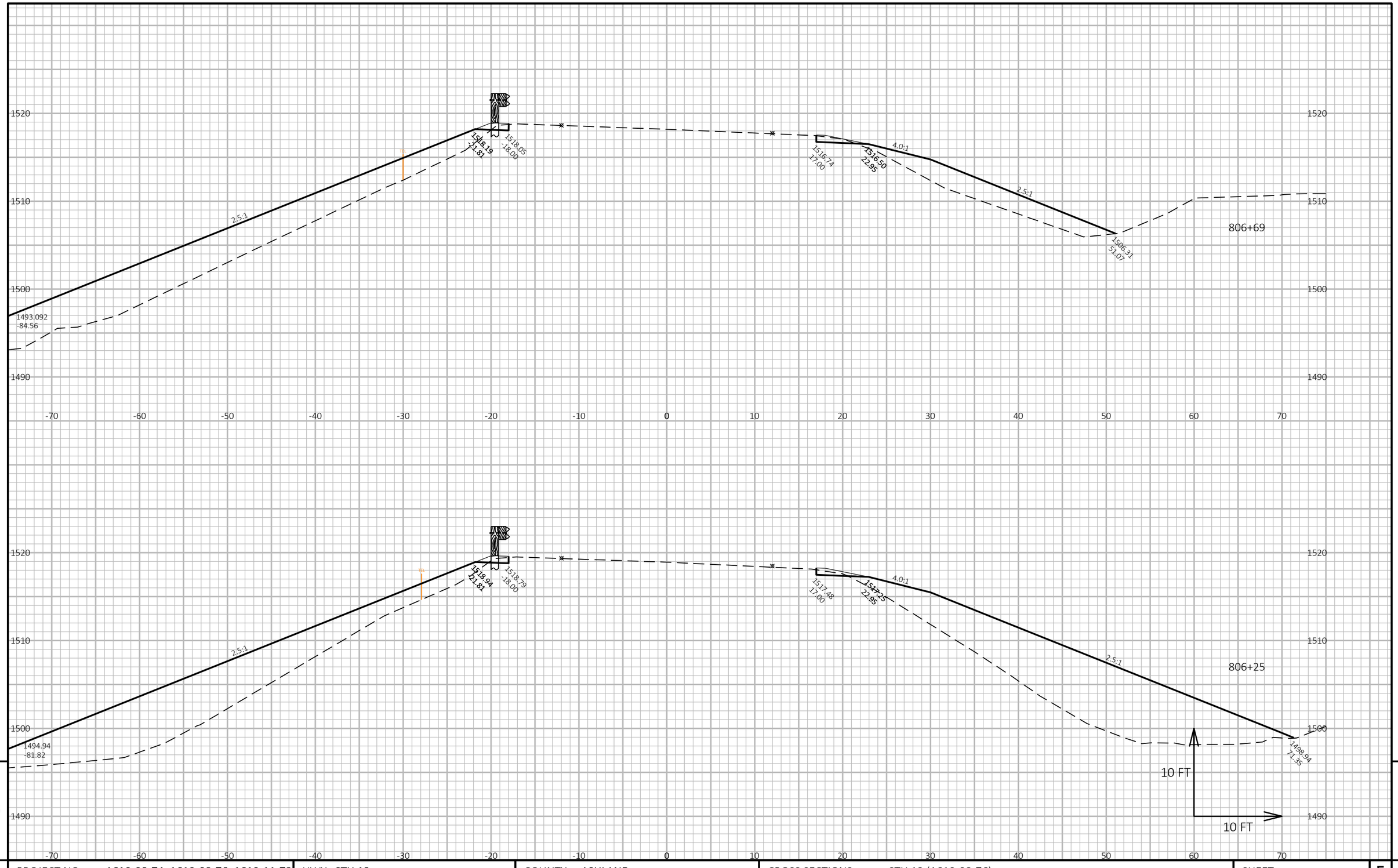
PLOT DATE : 9/26/2018 4:13 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 390	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(48)

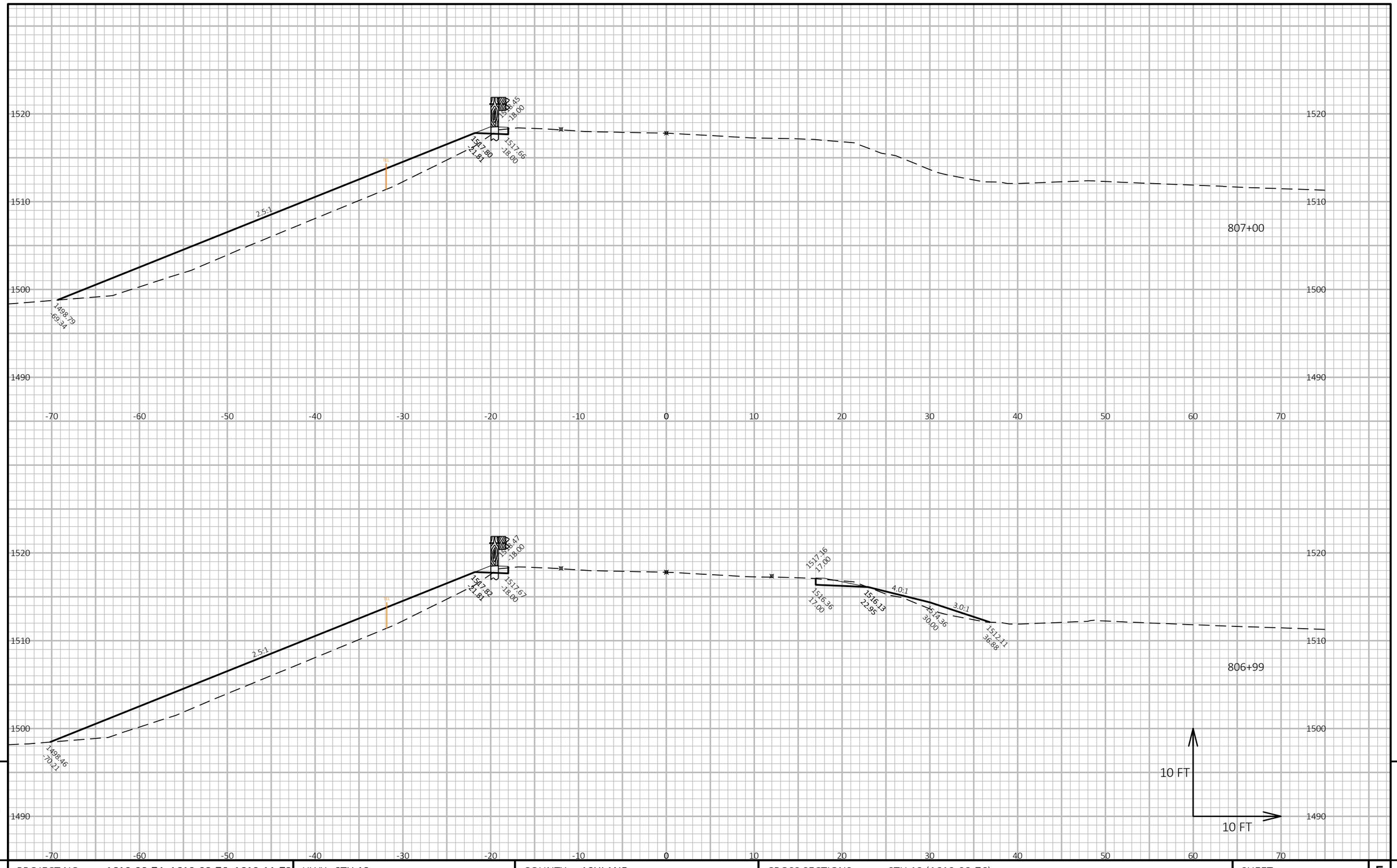
PLOT DATE : 9/26/2018 4:13 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 391	E

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FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(49)

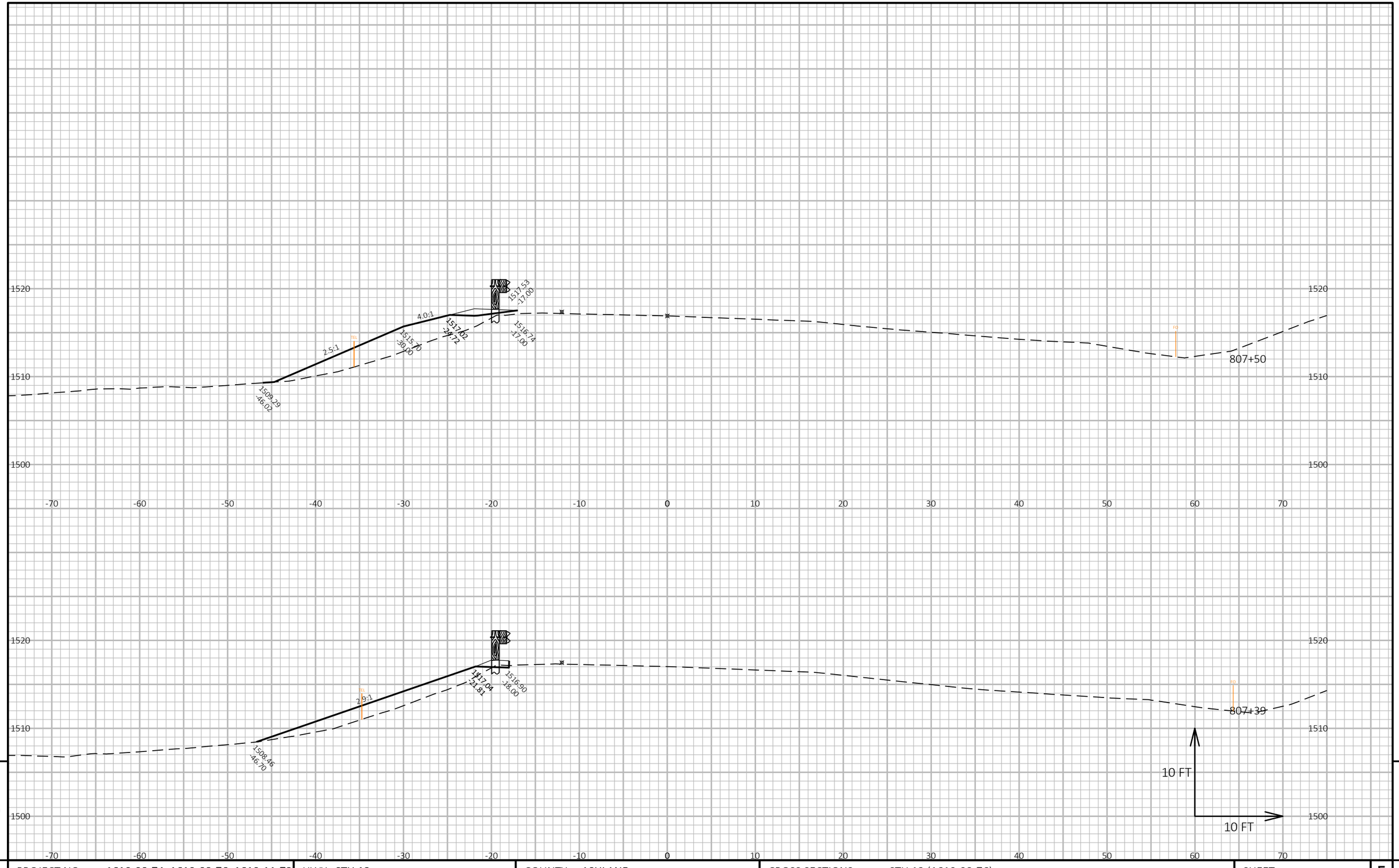
PLOT DATE : 9/26/2018 4:13 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 392	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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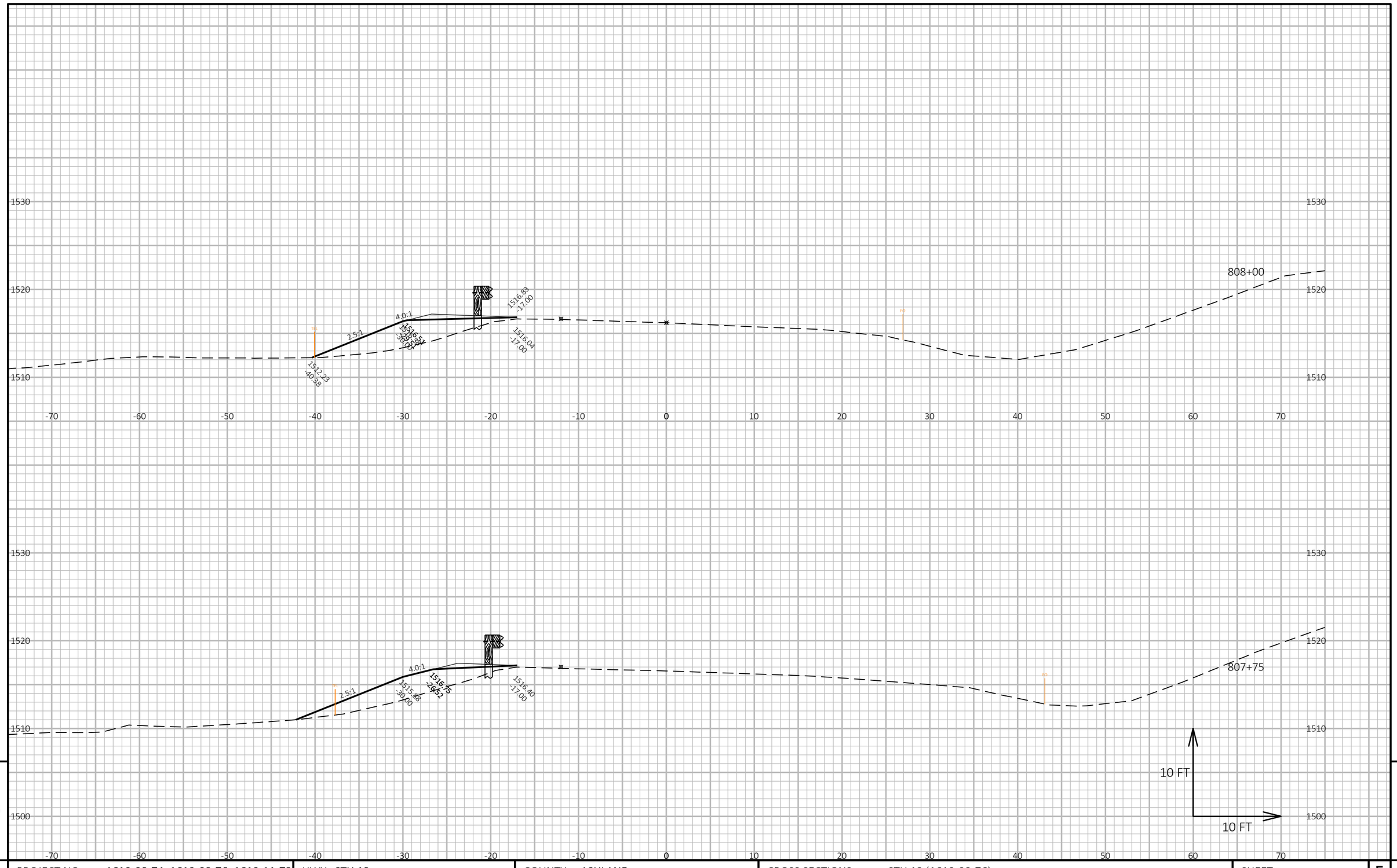
PLOT DATE : 9/26/2018 4:13 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 393	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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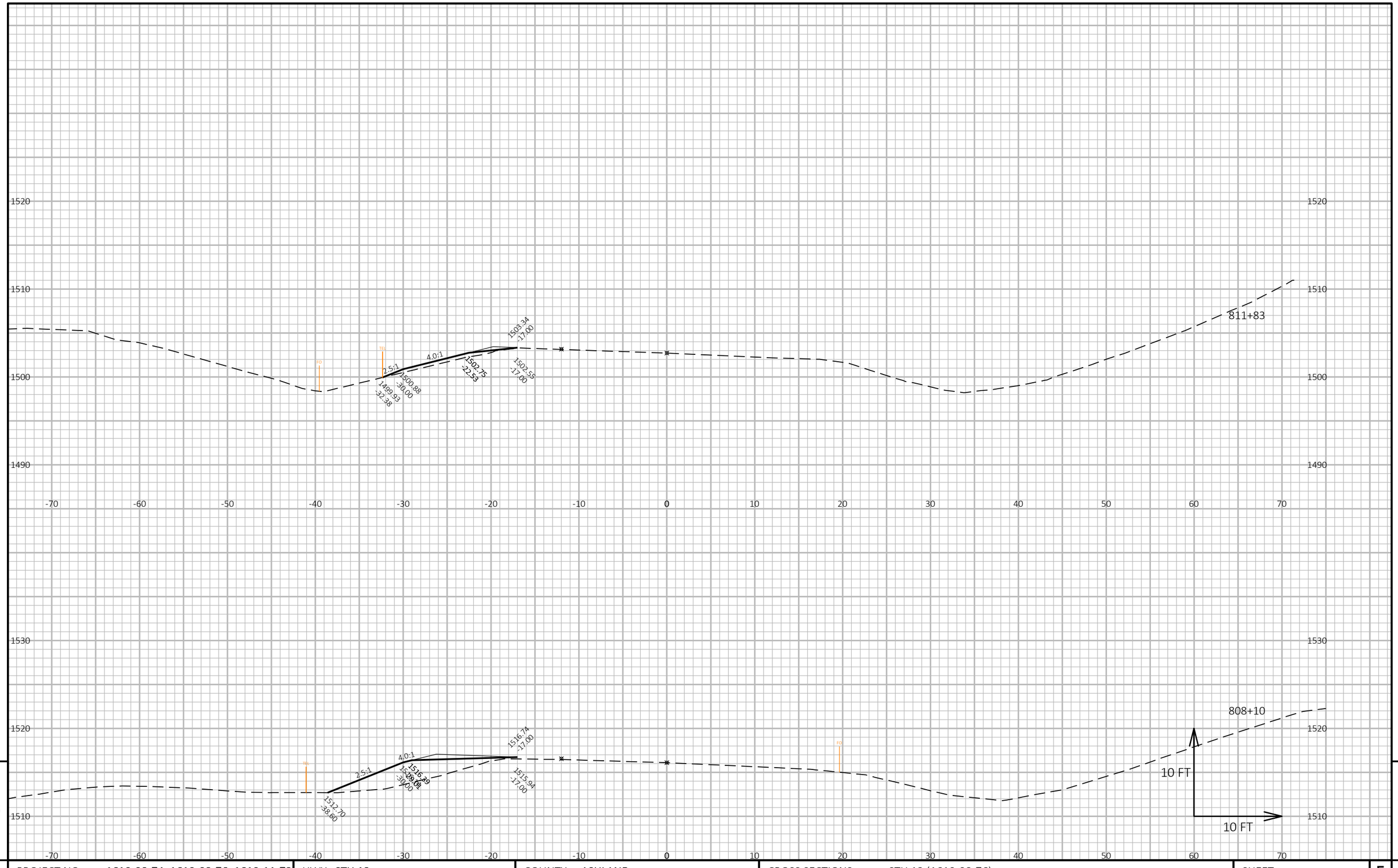
PLOT DATE : 9/26/2018 4:14 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 394	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(52)

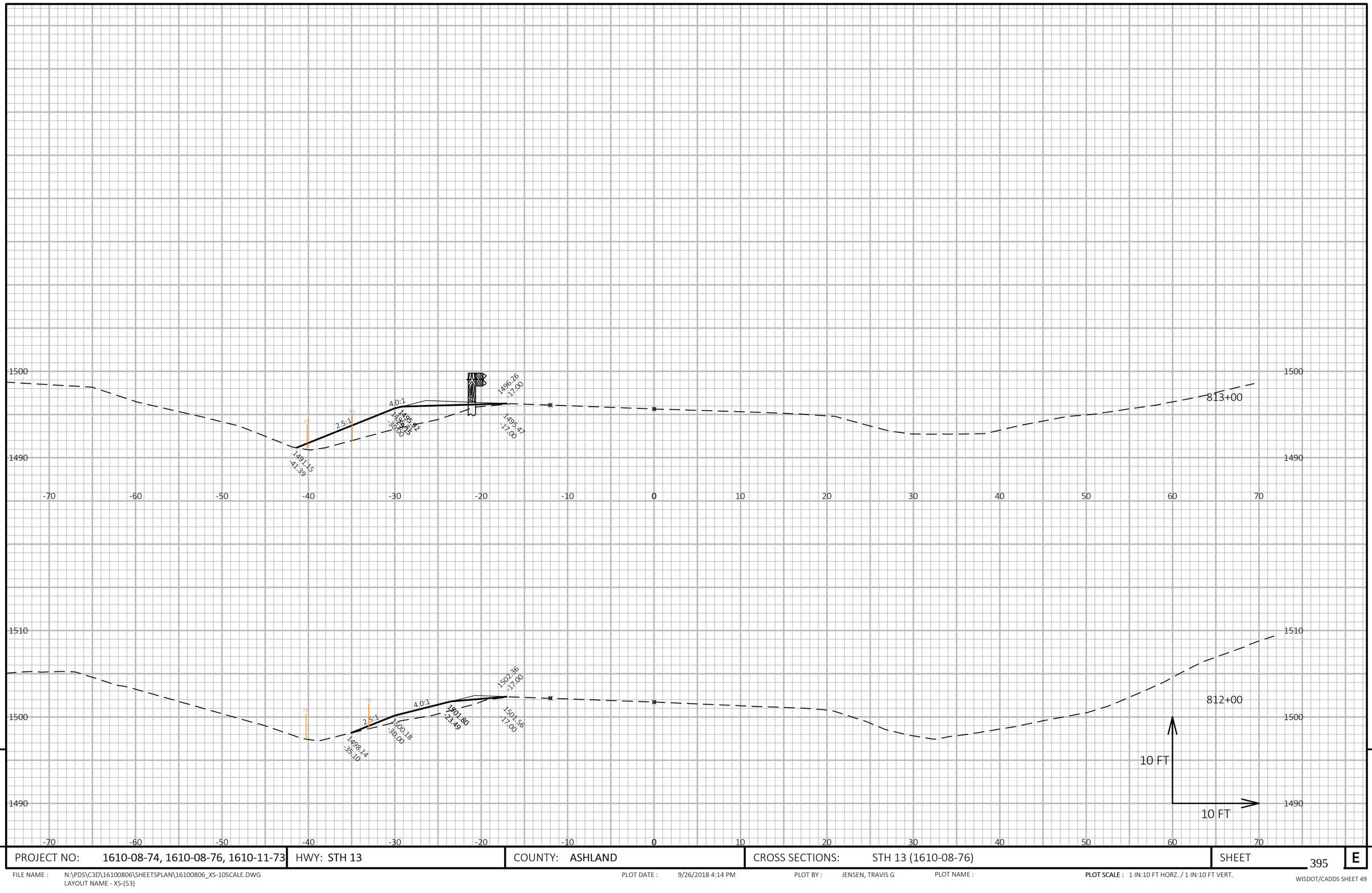
PLOT DATE : 9/26/2018 4:14 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 395	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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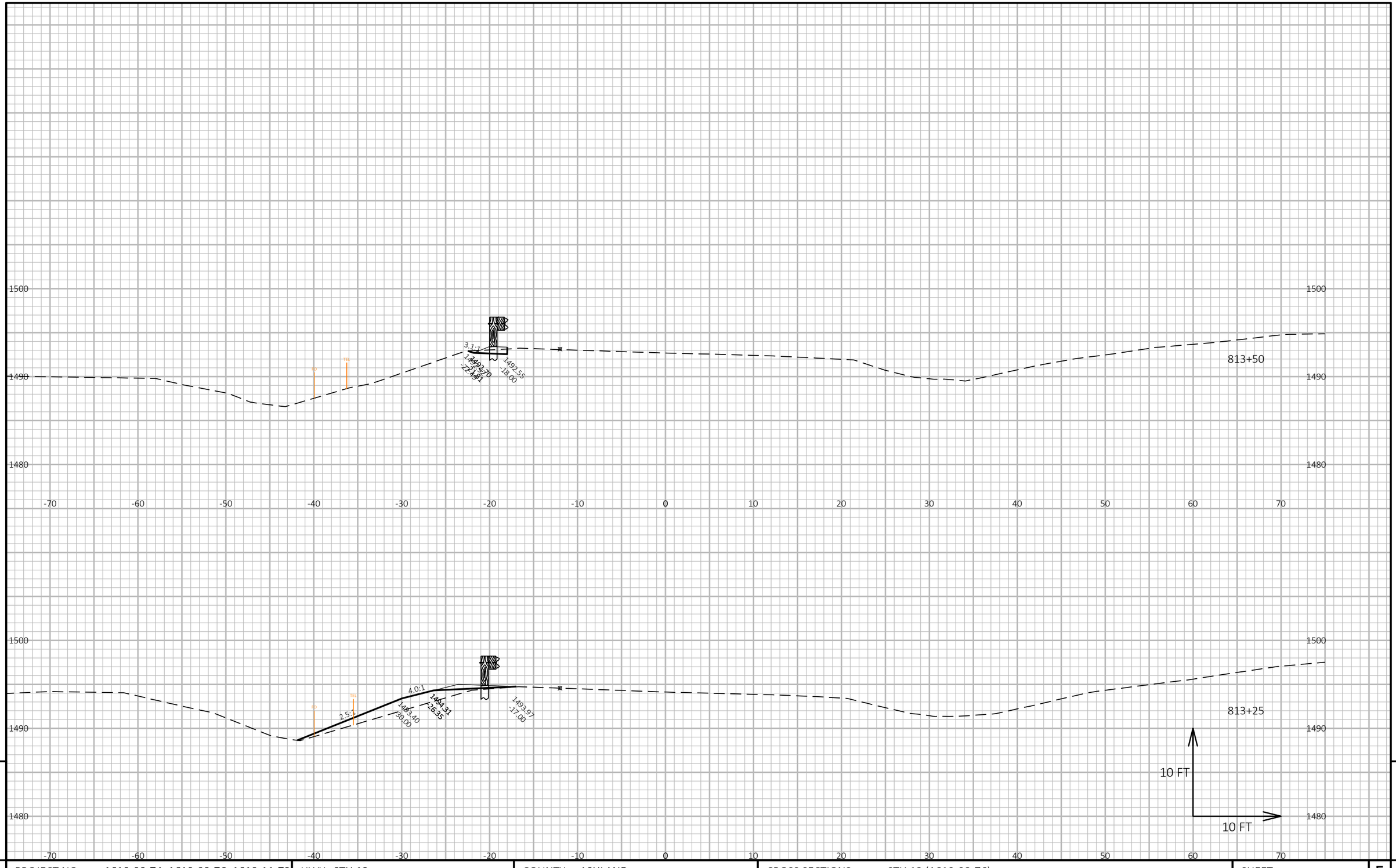
PLOT DATE : 9/26/2018 4:14 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 396	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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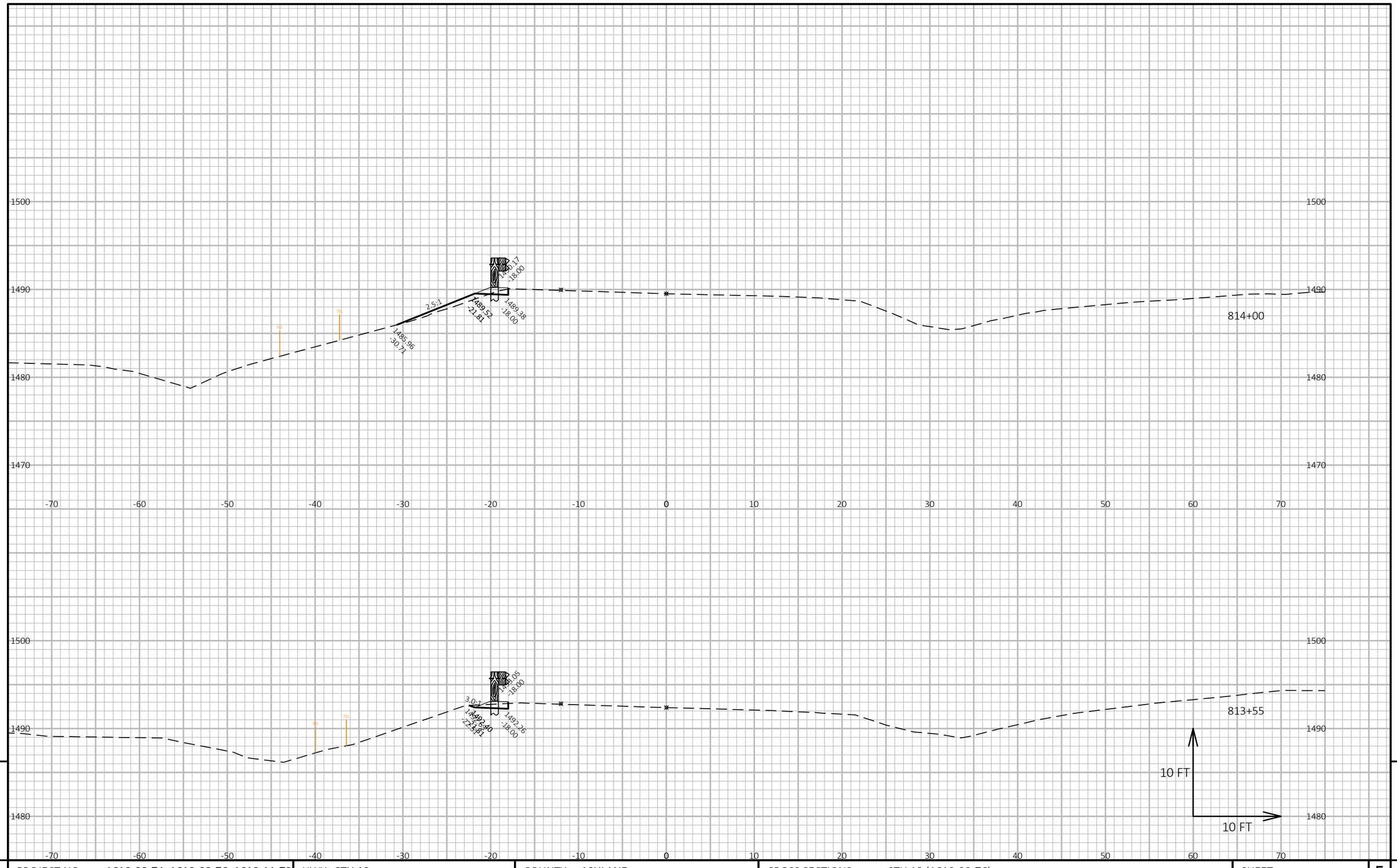
PLOT DATE : 9/26/2018 4:14 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 397	E

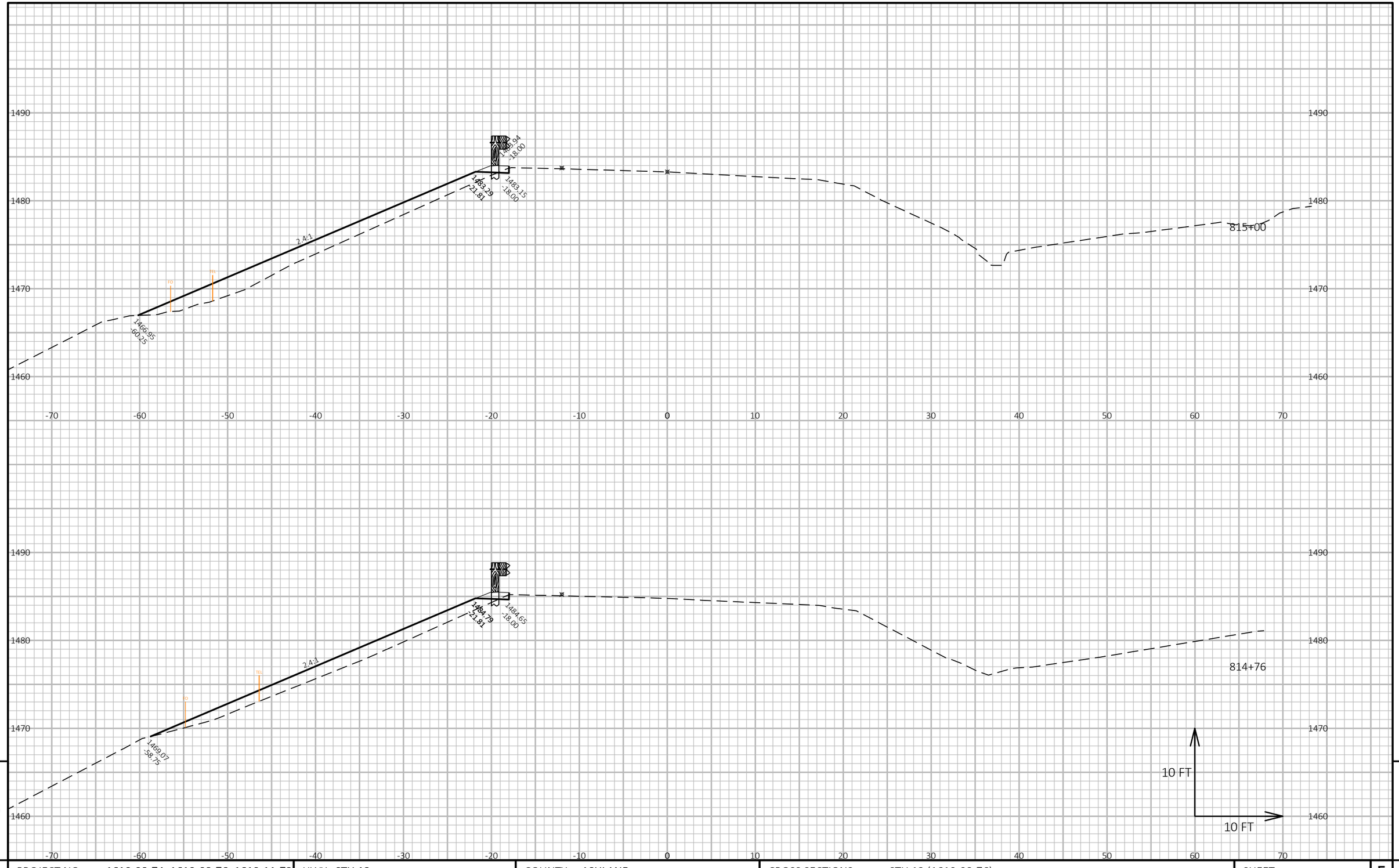
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LAYOUT NAME - XS-(55)

PLOT DATE : 9/26/2018 4:14 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



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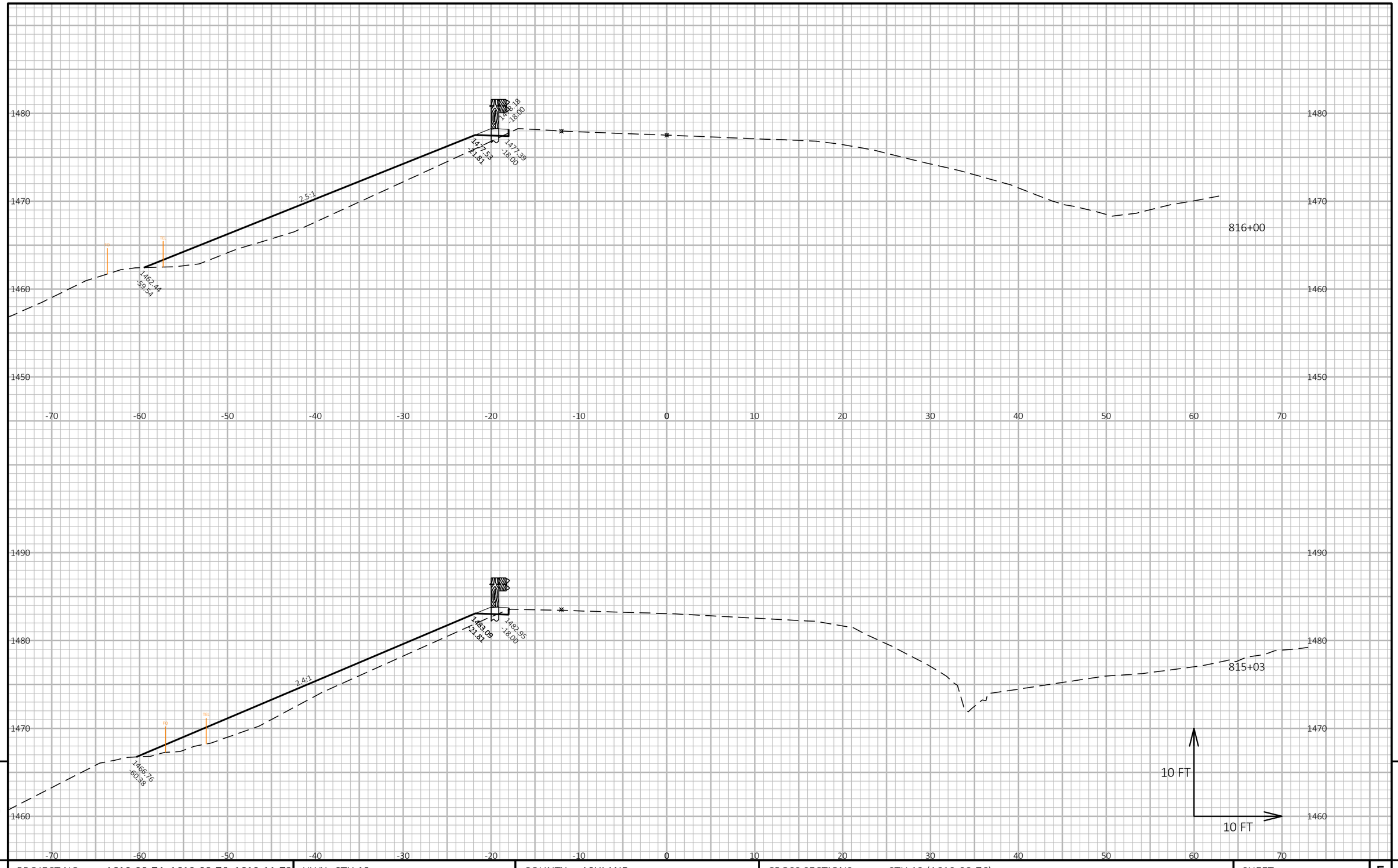
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 398	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(56)

PLOT DATE : 9/26/2018 4:15 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 399	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(57)

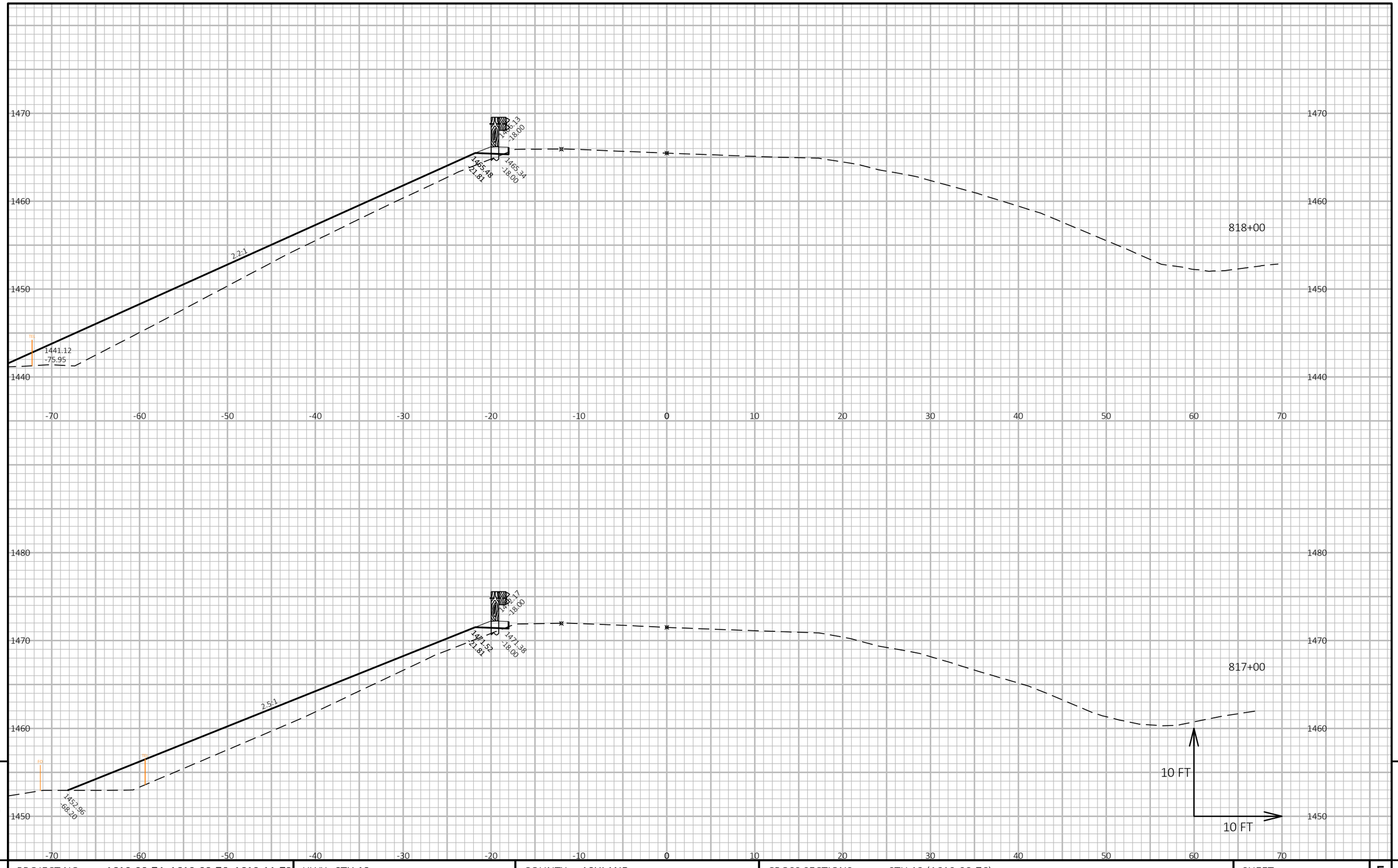
PLOT DATE : 9/26/2018 4:15 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



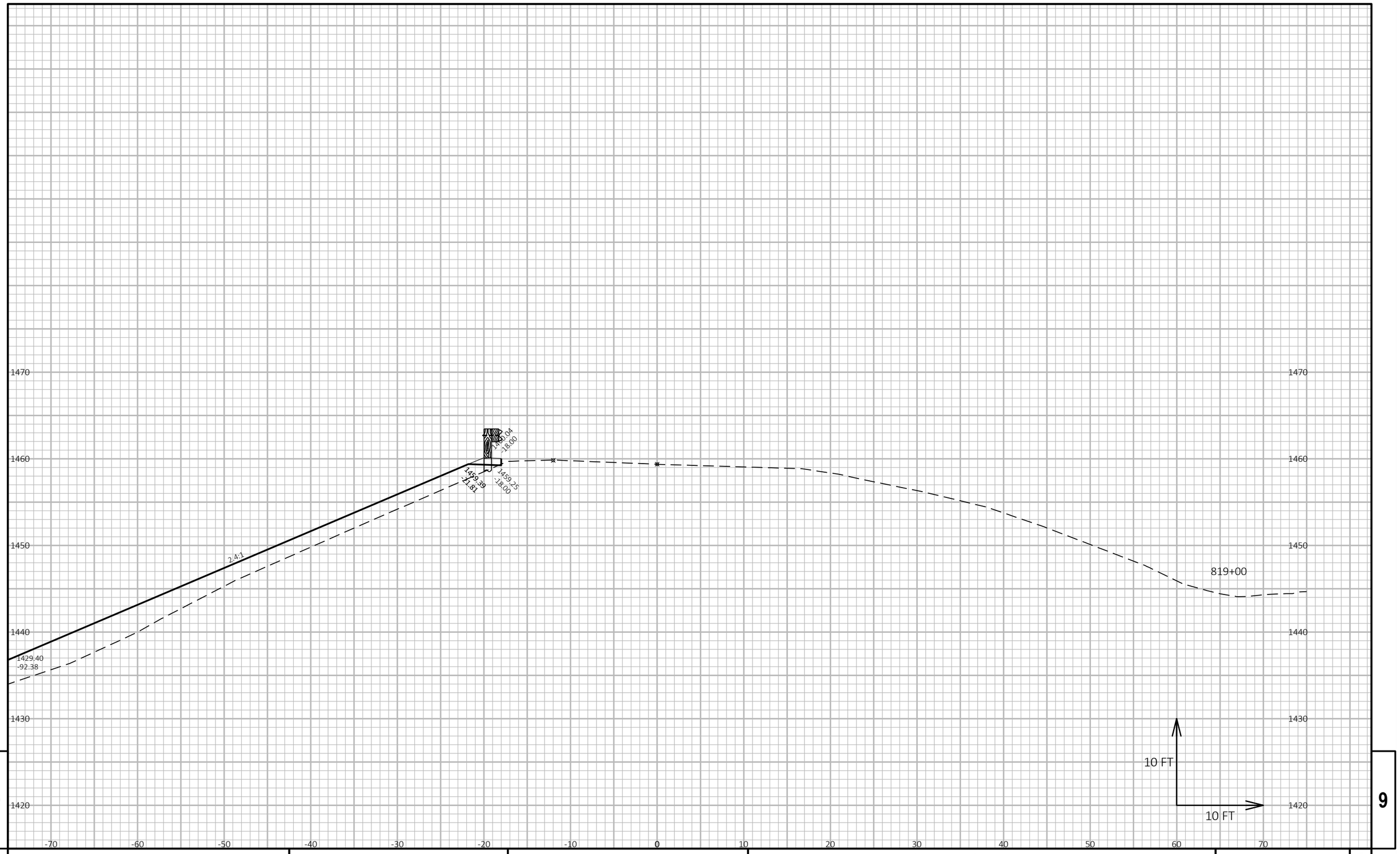
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 400	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(58)

PLOT DATE : 9/26/2018 4:15 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 401	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(59)

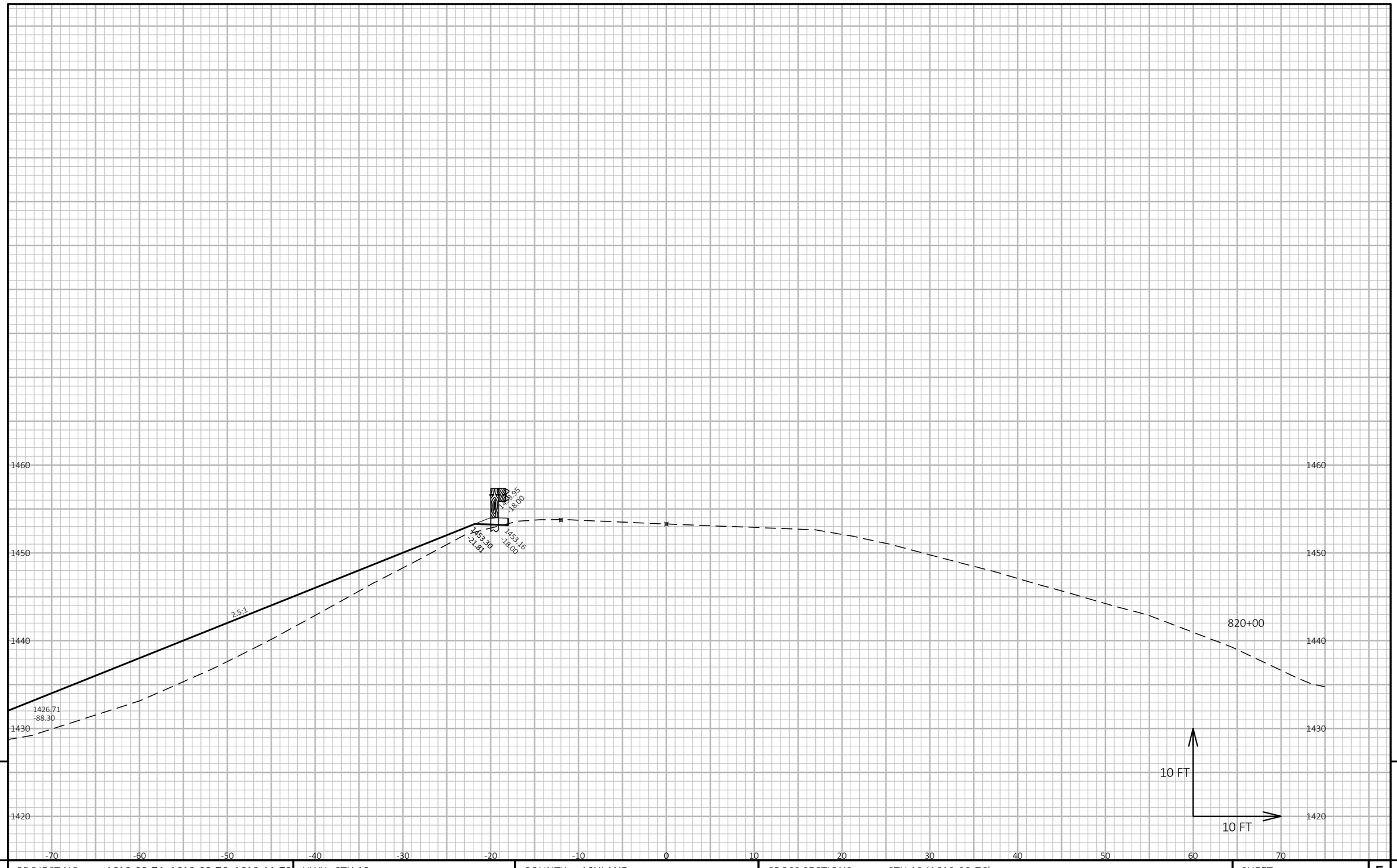
PLOT DATE : 9/26/2018 4:15 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 402	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(60)

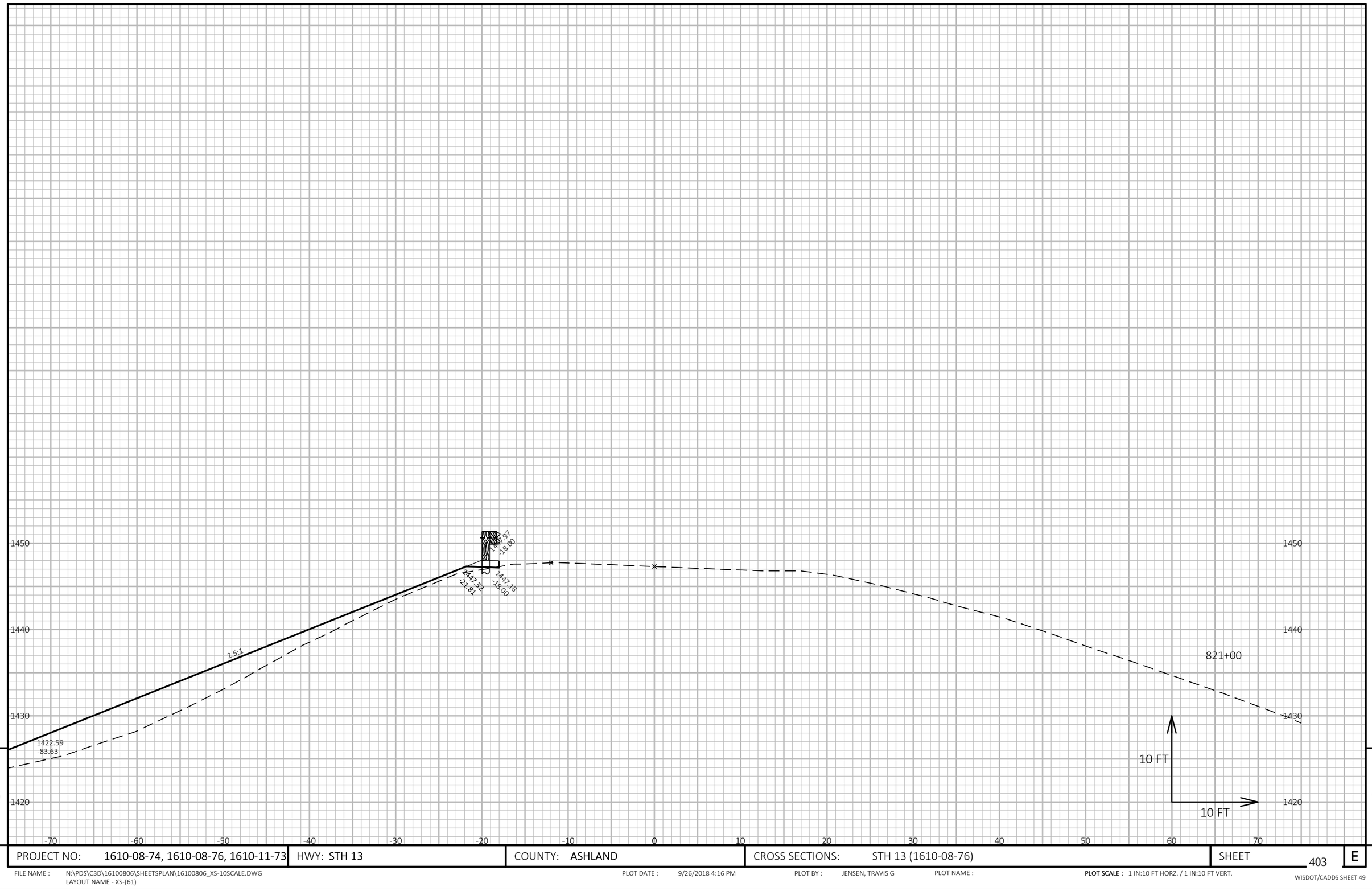
PLOT DATE : 9/26/2018 4:15 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 403	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(61)

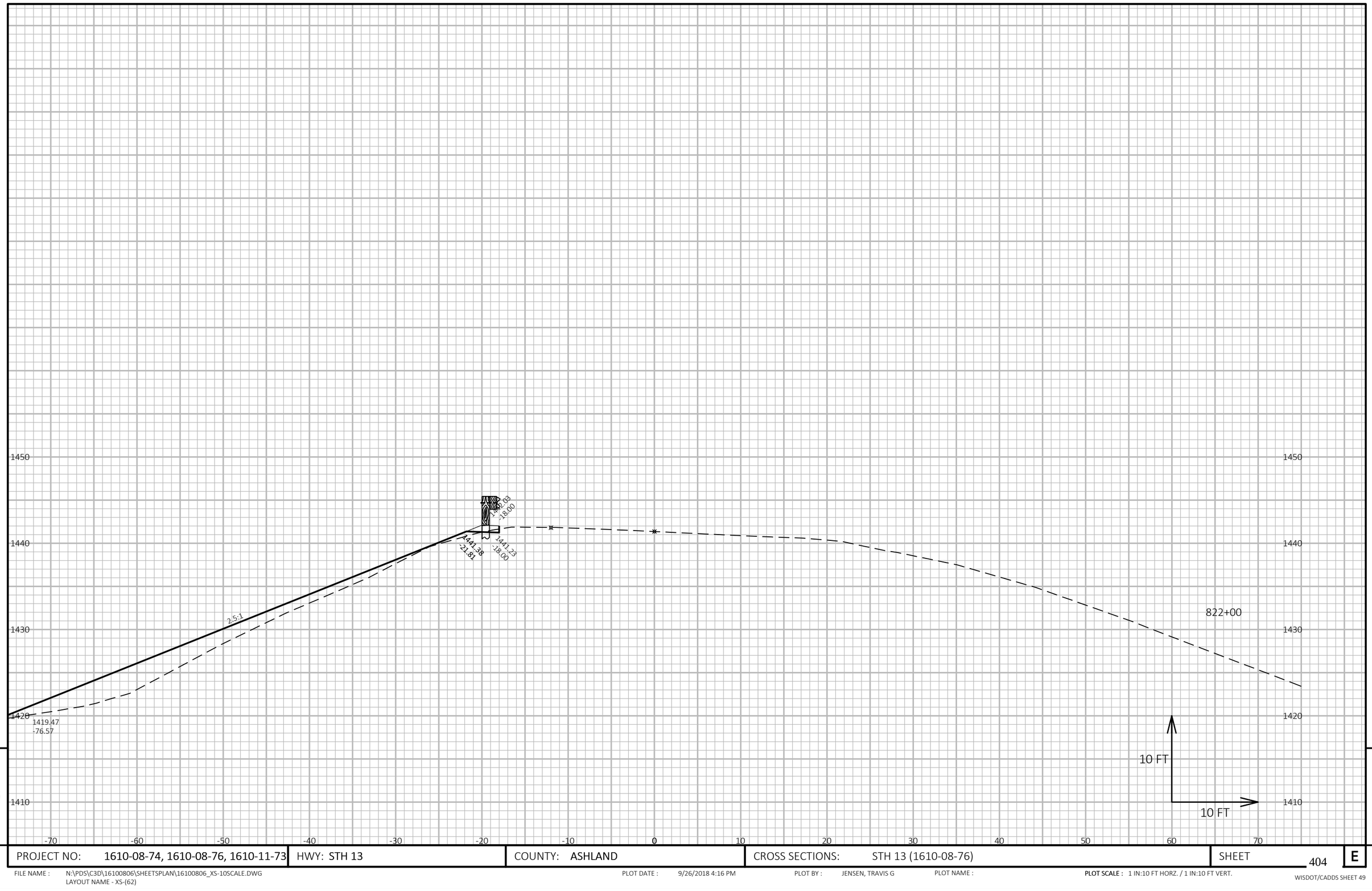
PLOT DATE : 9/26/2018 4:16 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 404	E

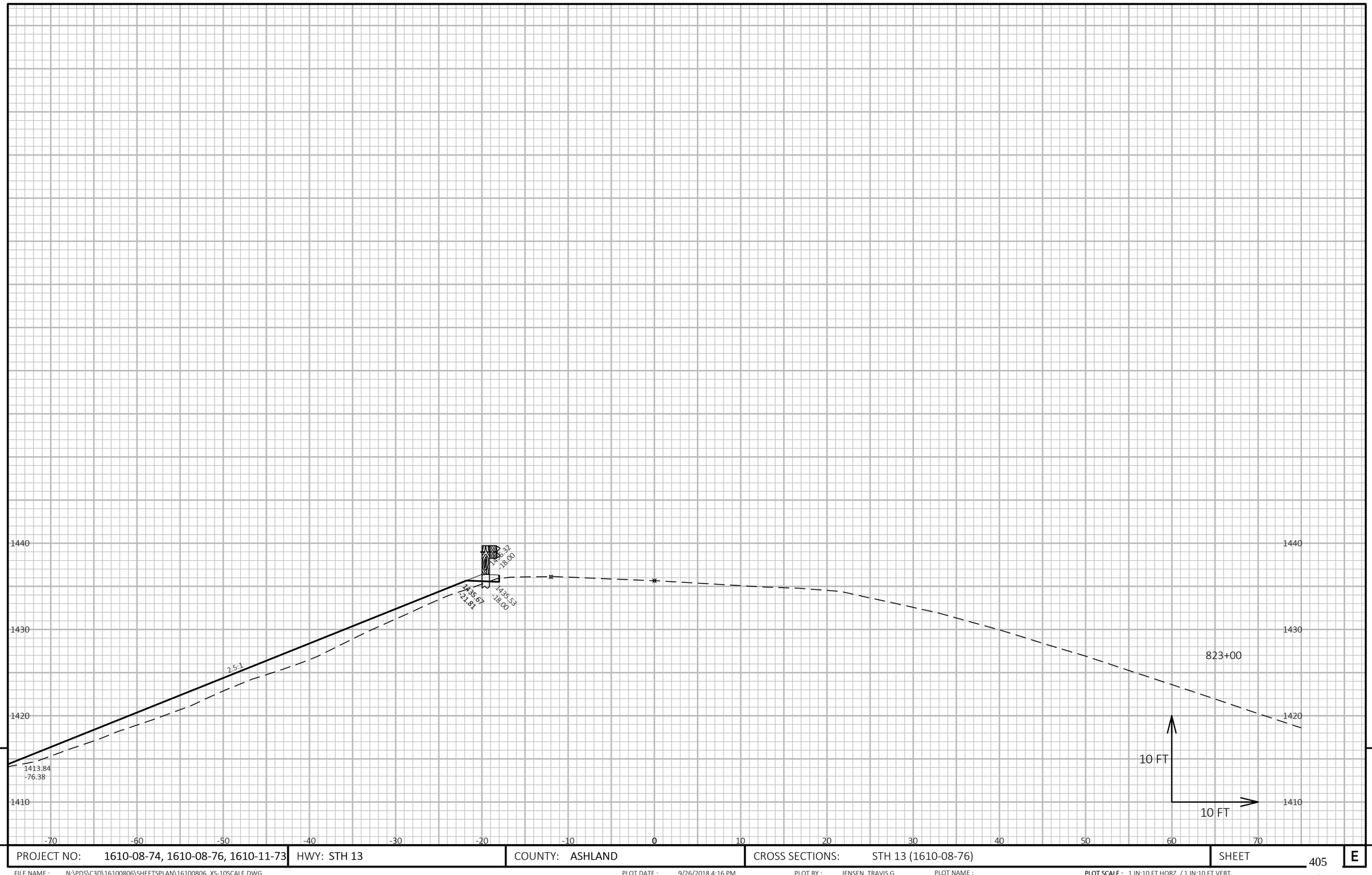
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LAYOUT NAME - XS-(62)

PLOT DATE : 9/26/2018 4:16 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



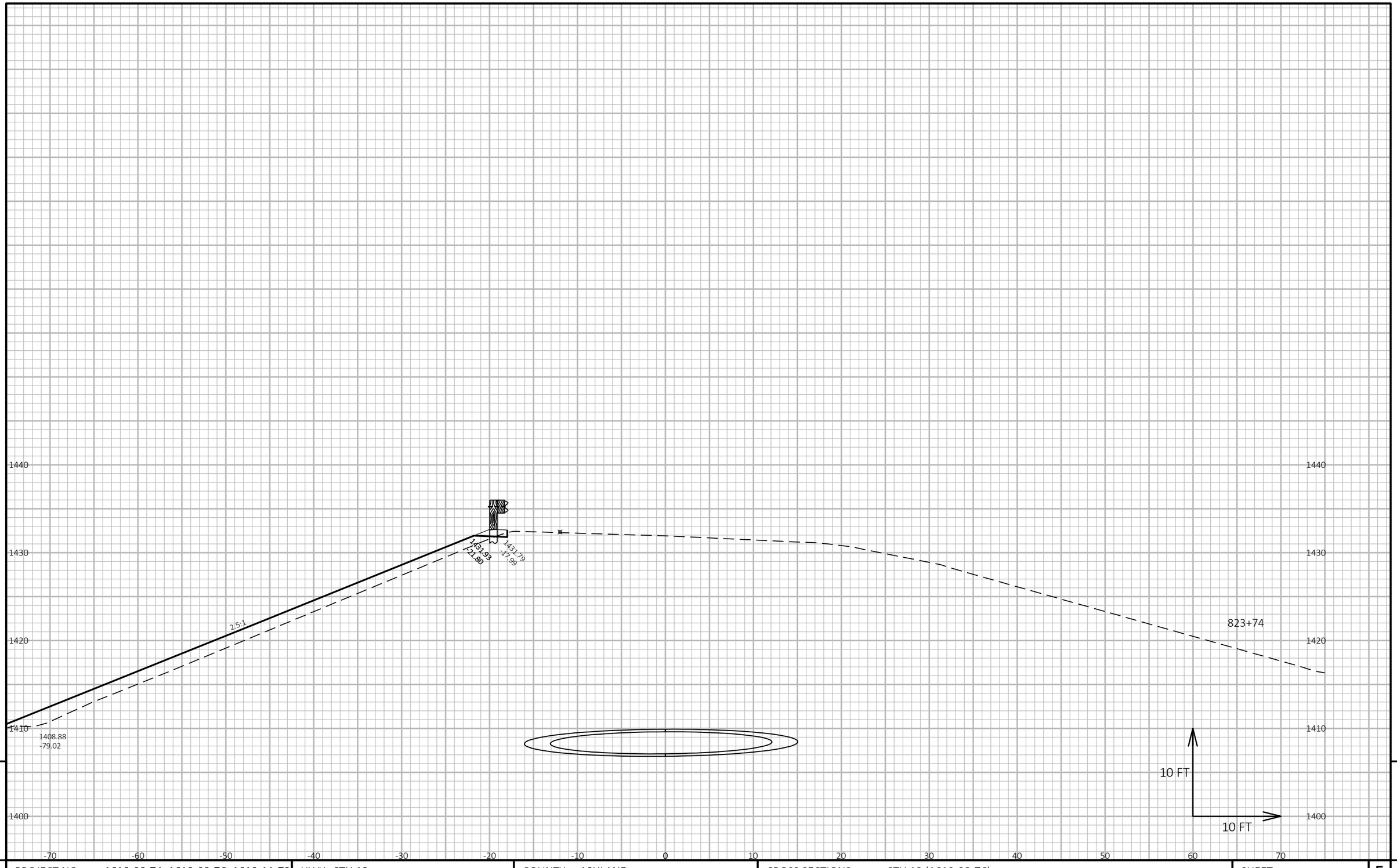
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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 405	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(63)

PLOT DATE : 9/26/2018 4:16 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 406	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(64)

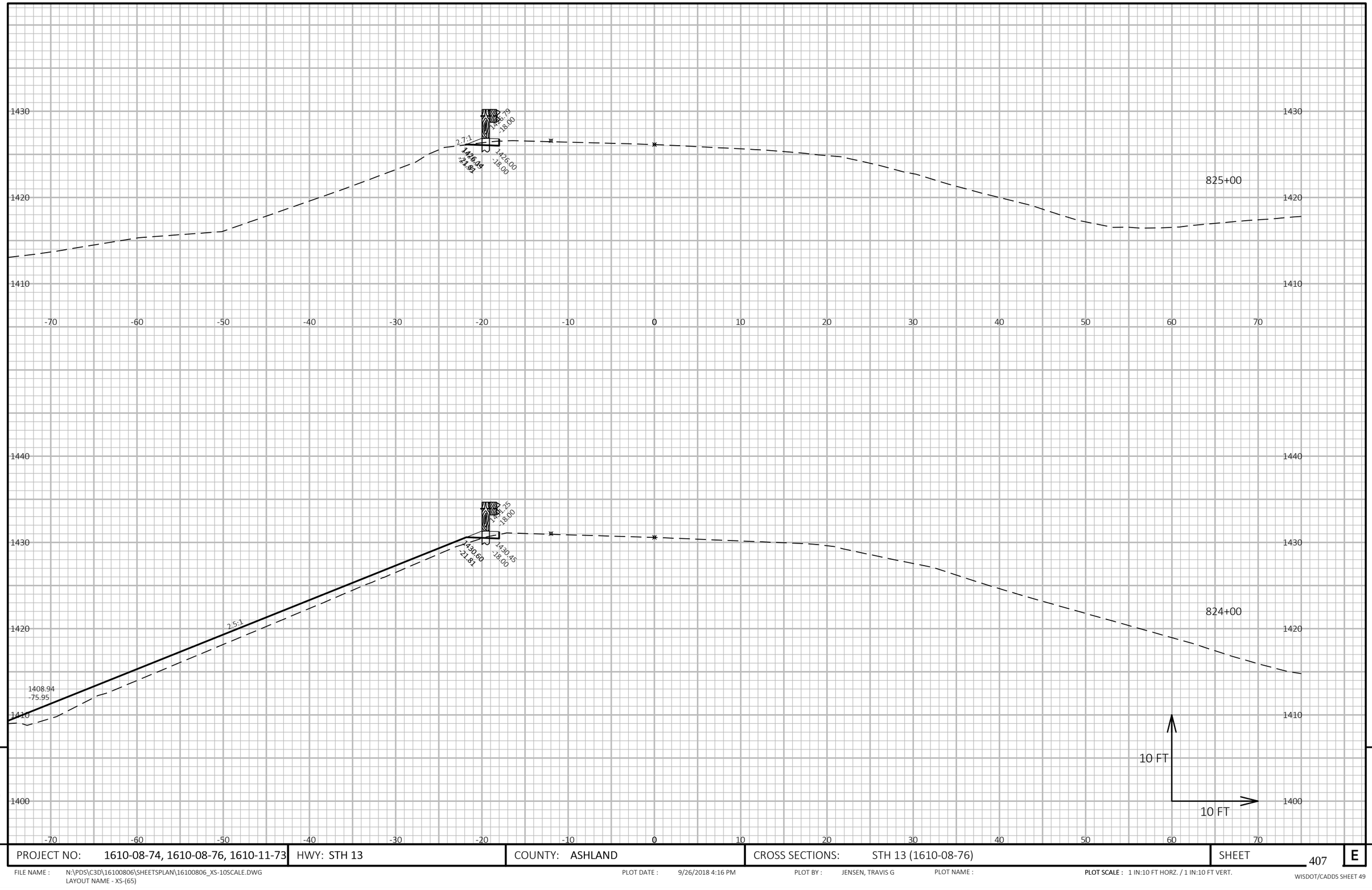
PLOT DATE : 9/26/2018 4:16 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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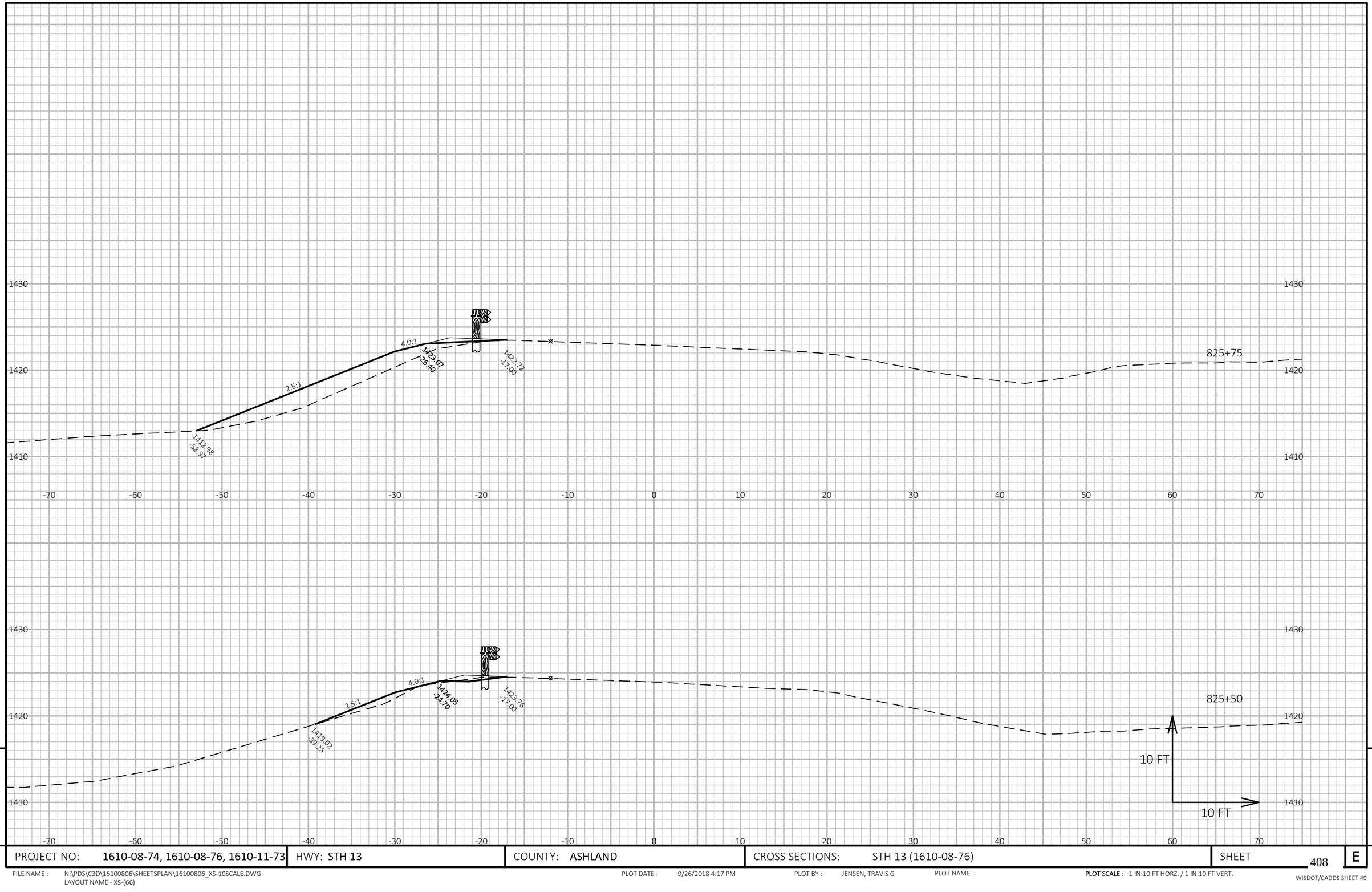
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 407	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(65)

PLOT DATE : 9/26/2018 4:16 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



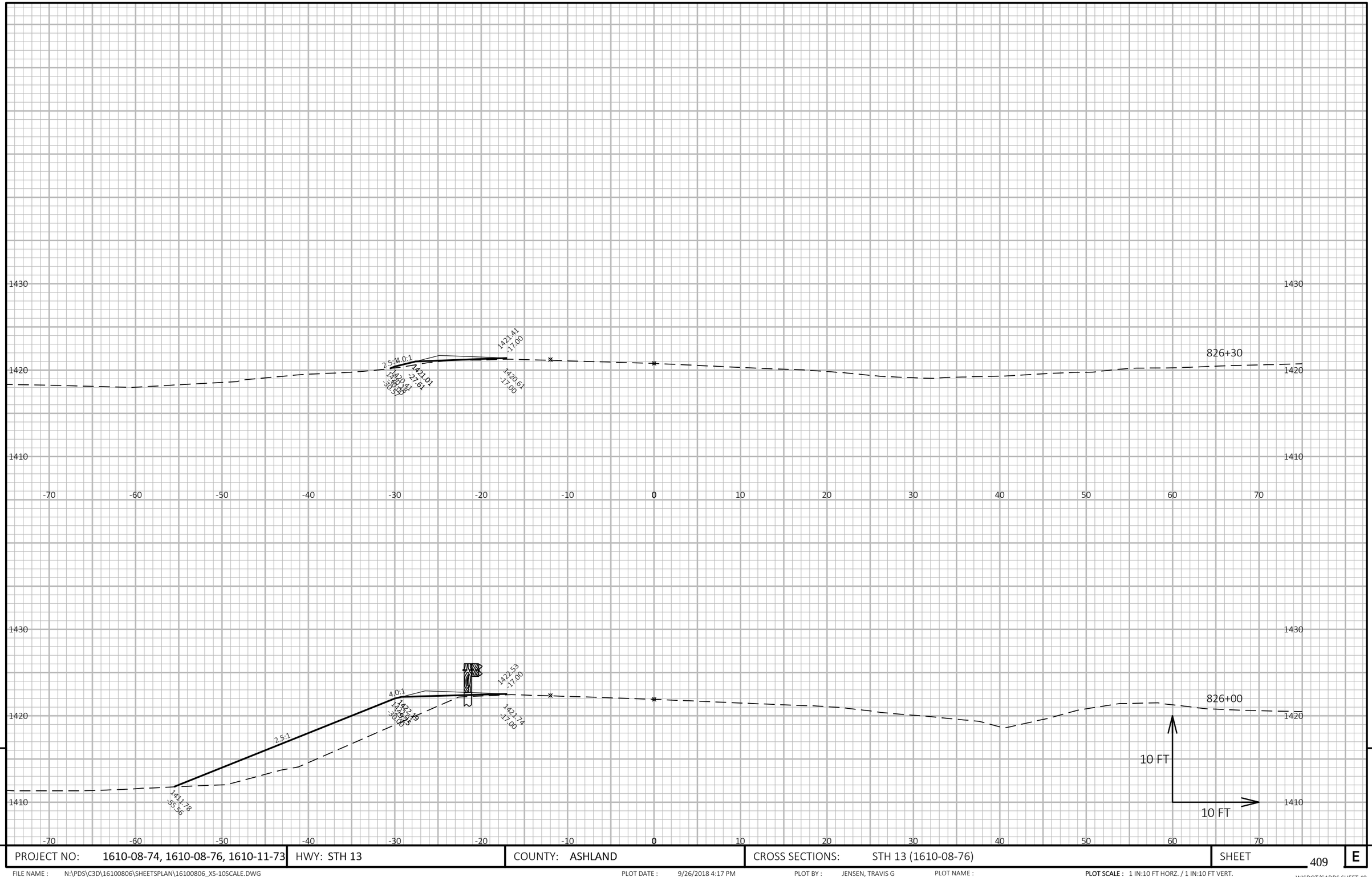
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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 408	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(66)

PLOT DATE : 9/26/2018 4:17 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 409	E

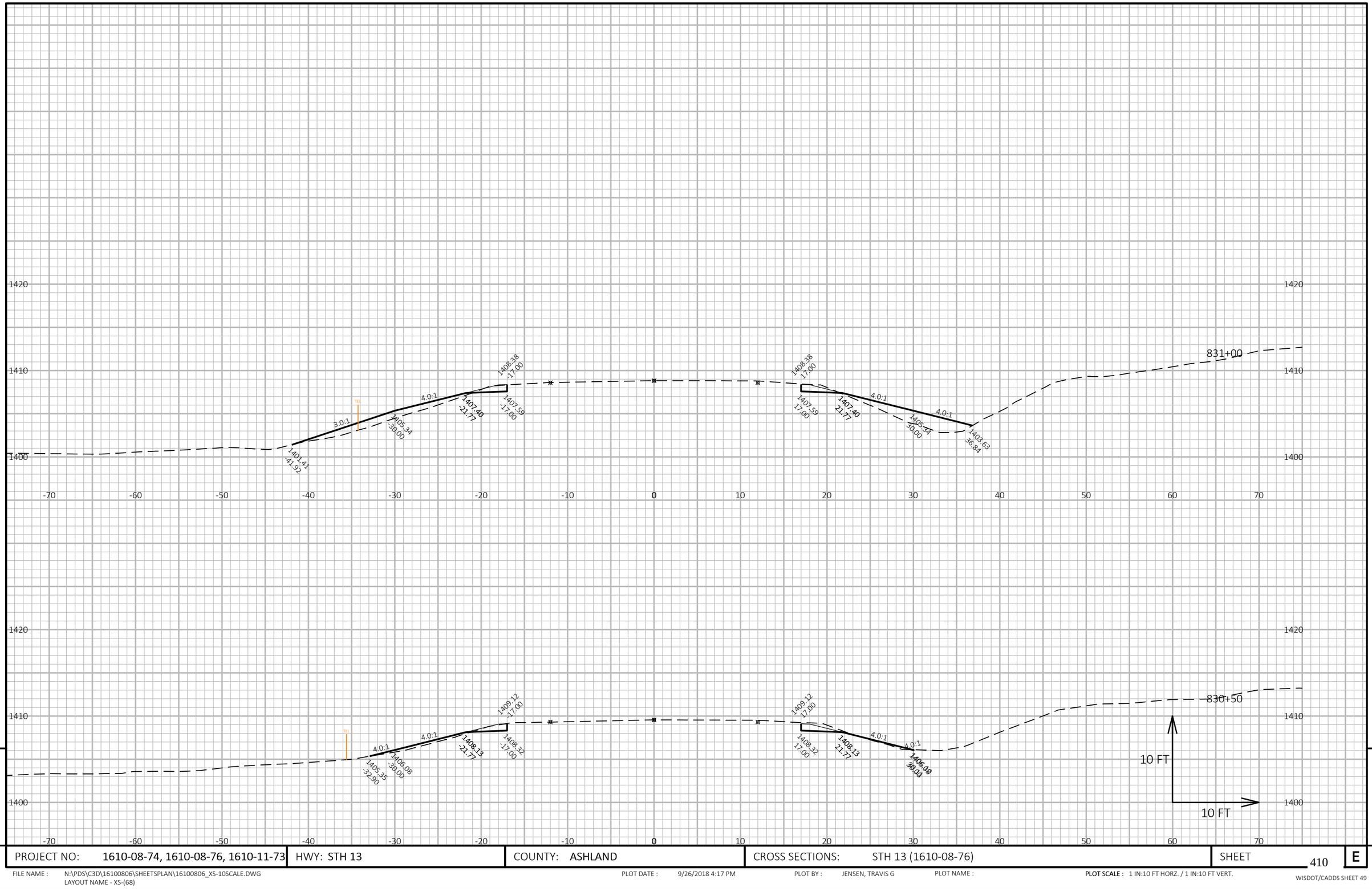
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LAYOUT NAME - XS-(67)

PLOT DATE : 9/26/2018 4:17 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 410	E

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FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(68)

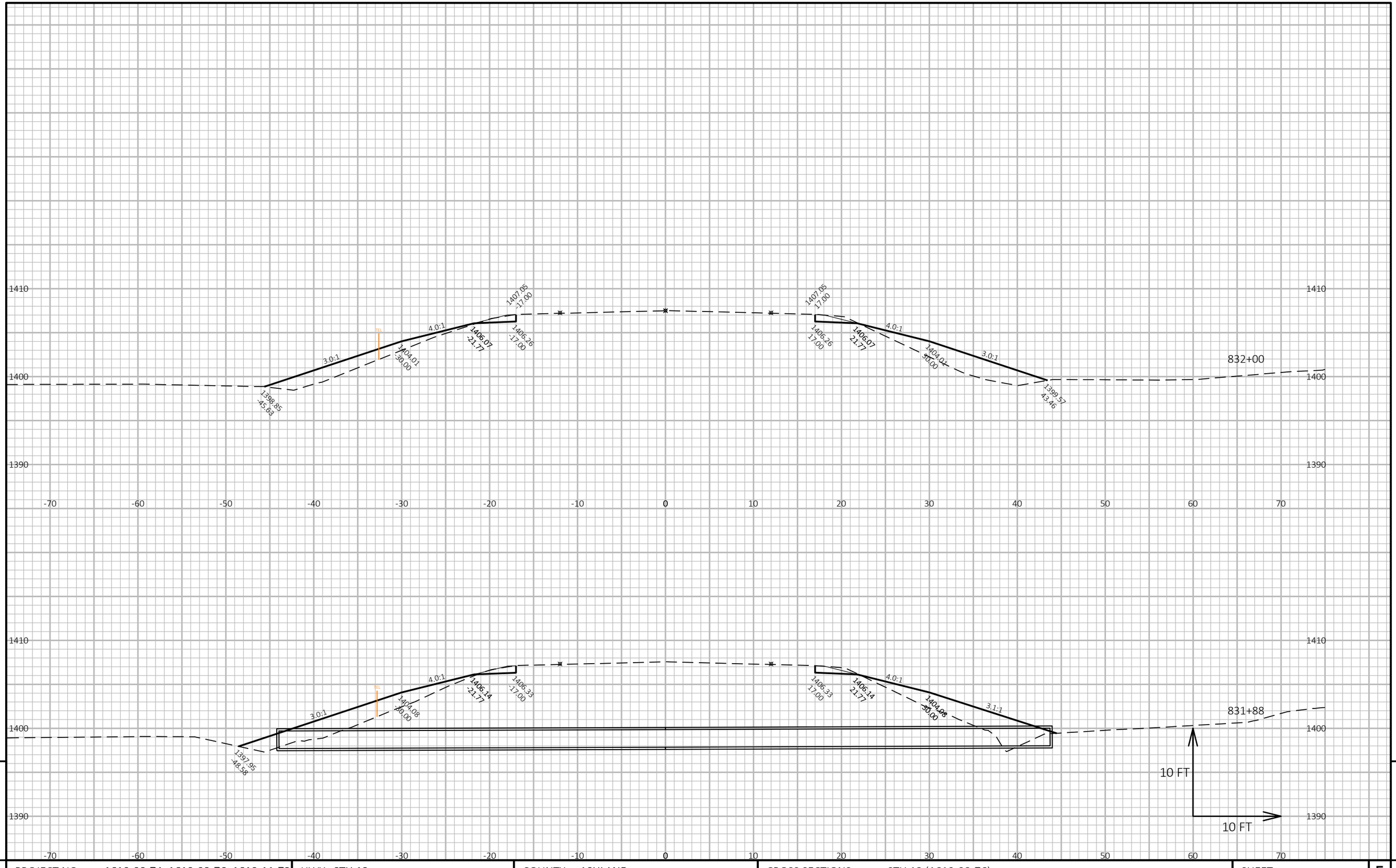
PLOT DATE : 9/26/2018 4:17 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 411	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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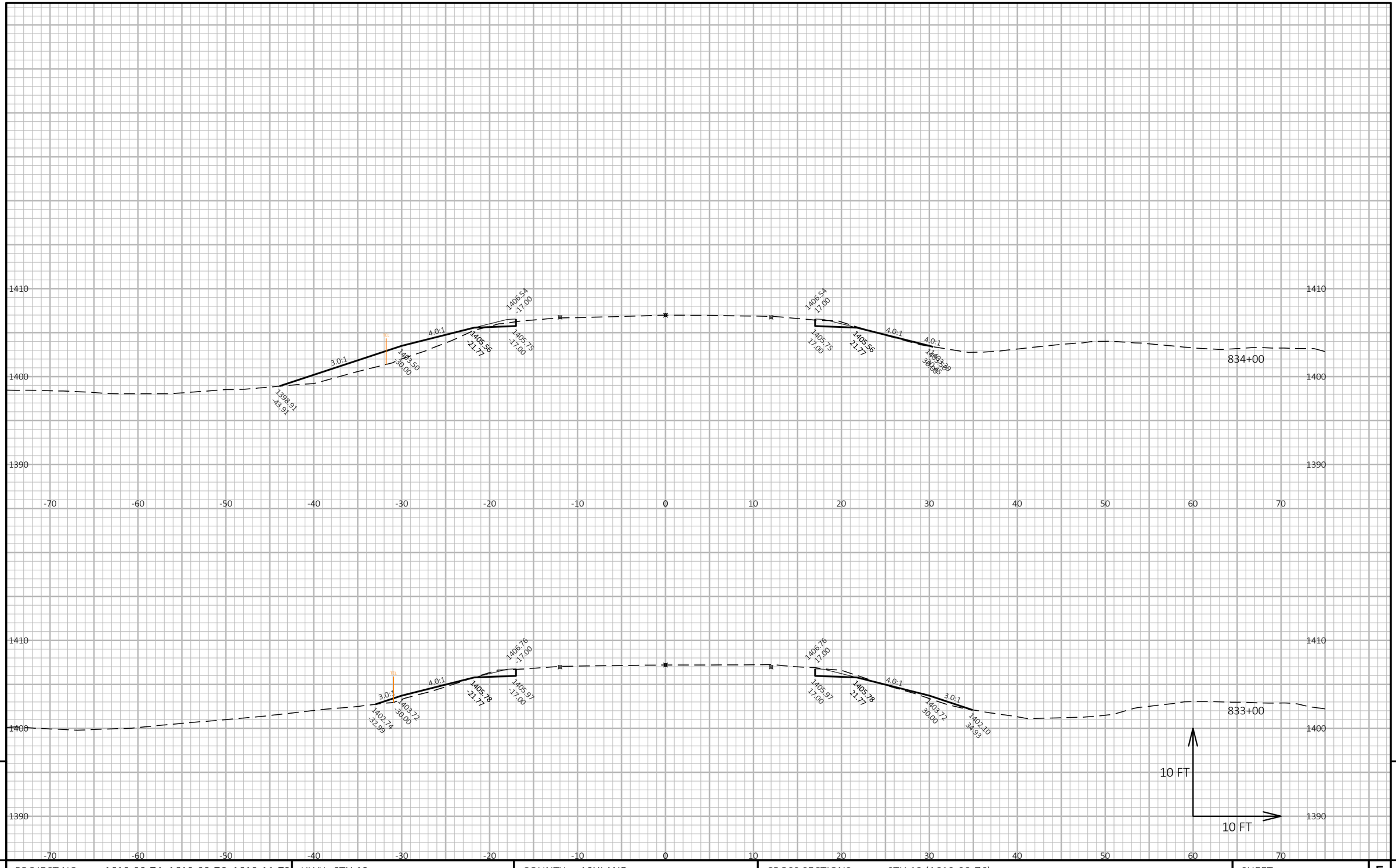
PLOT DATE : 9/26/2018 4:17 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 412	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(70)

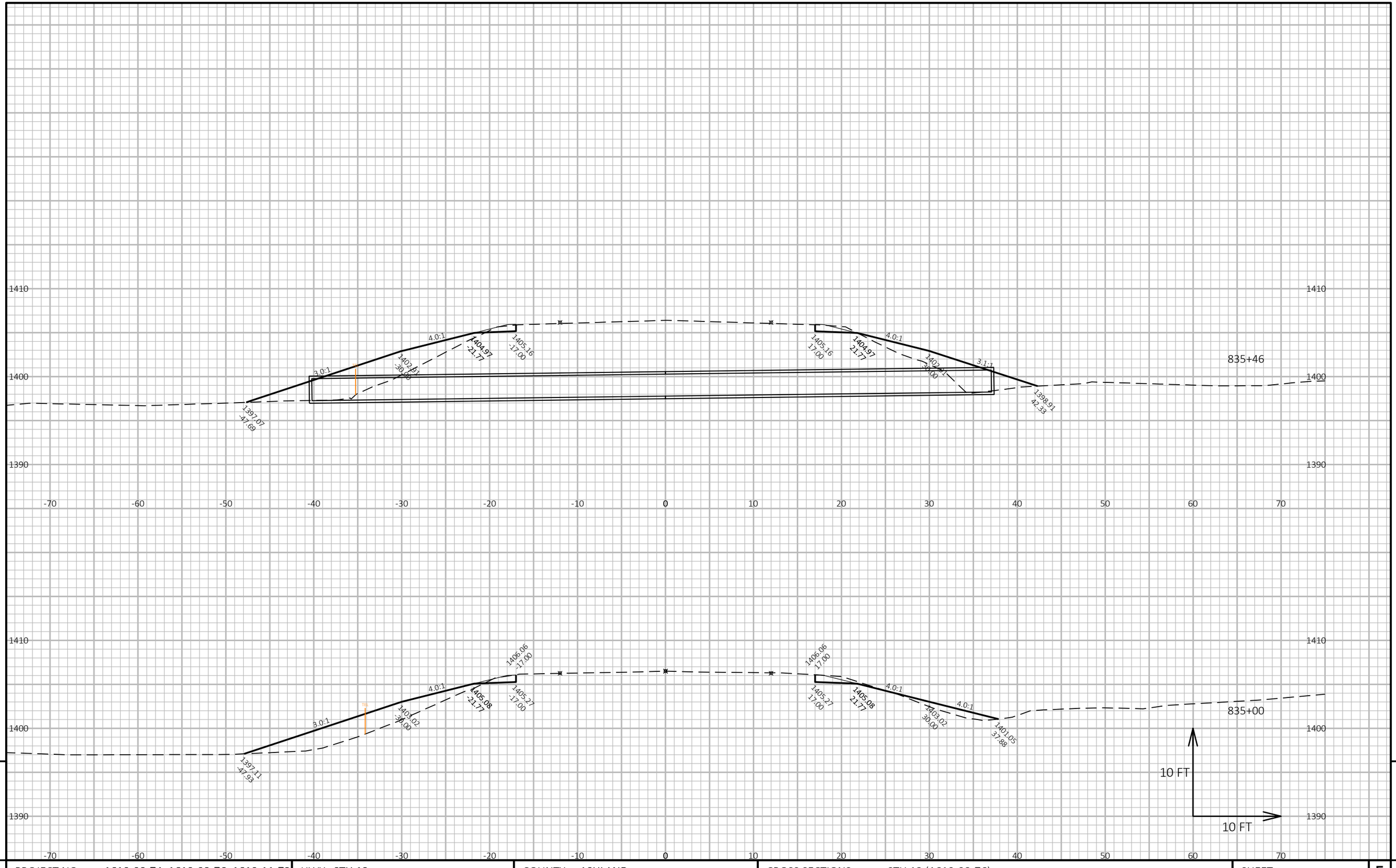
PLOT DATE : 9/26/2018 4:17 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 413	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(71)

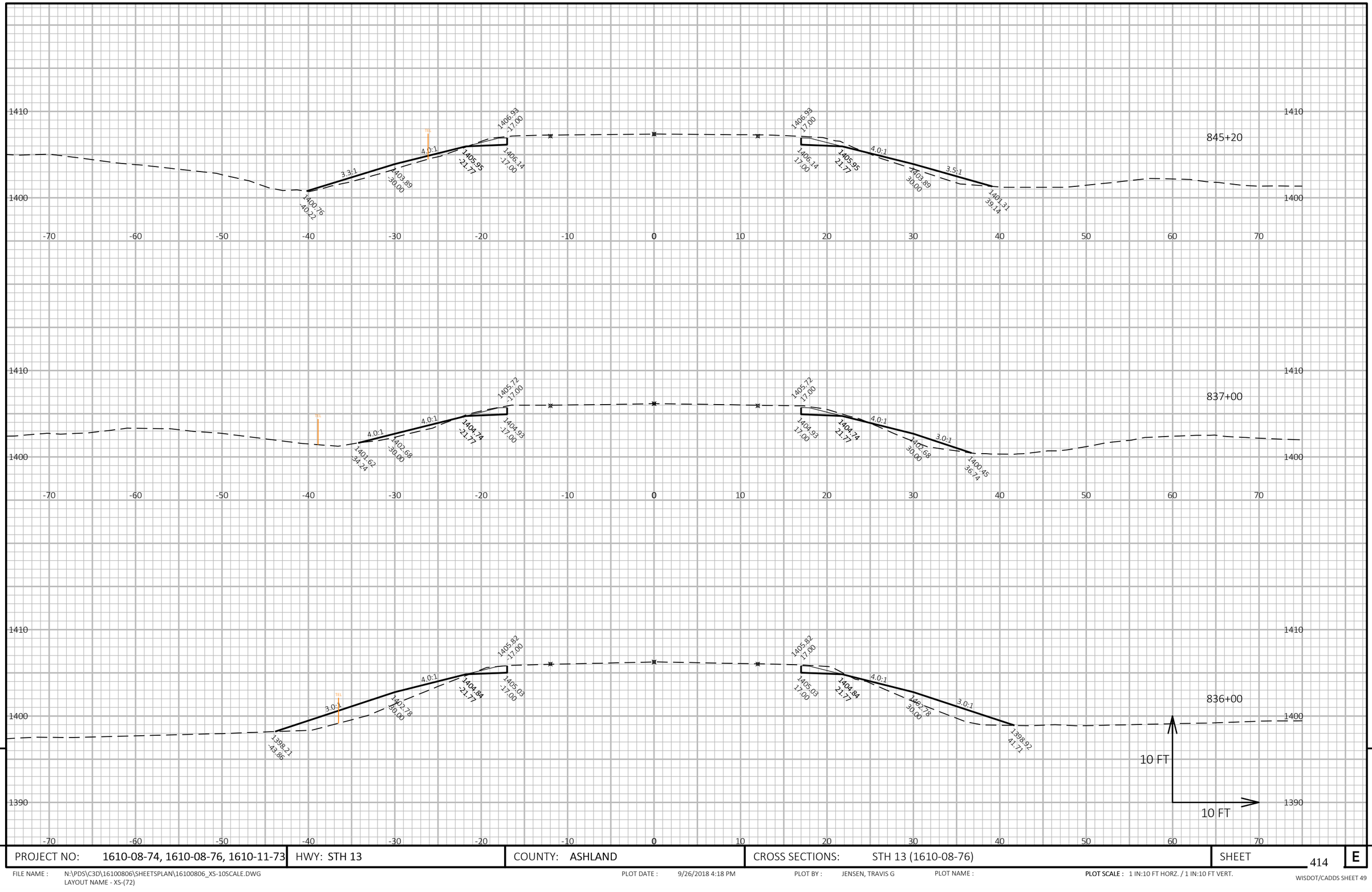
PLOT DATE : 9/26/2018 4:18 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 414	E

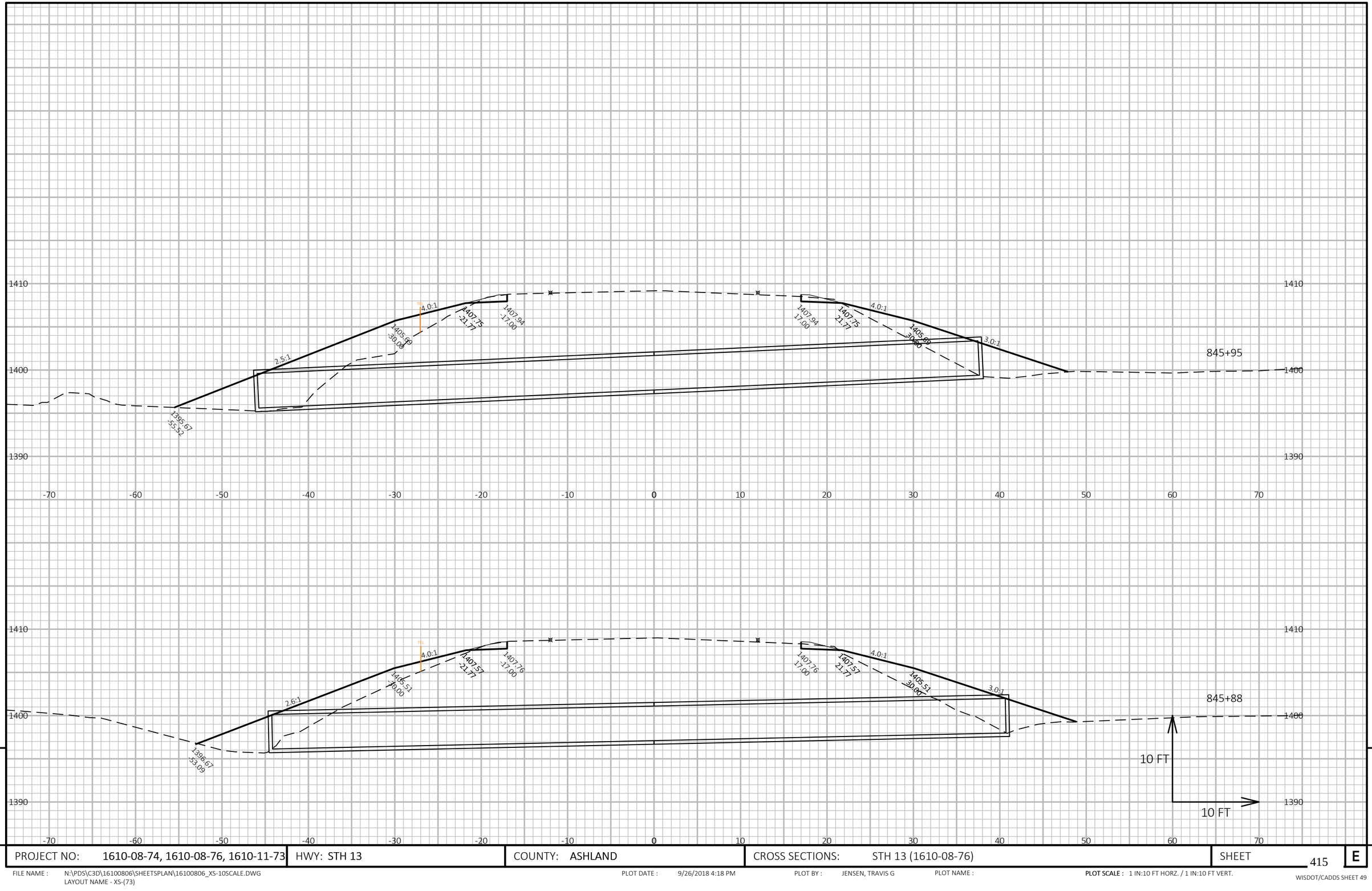
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LAYOUT NAME - XS-(72)

PLOT DATE : 9/26/2018 4:18 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 415	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(73)

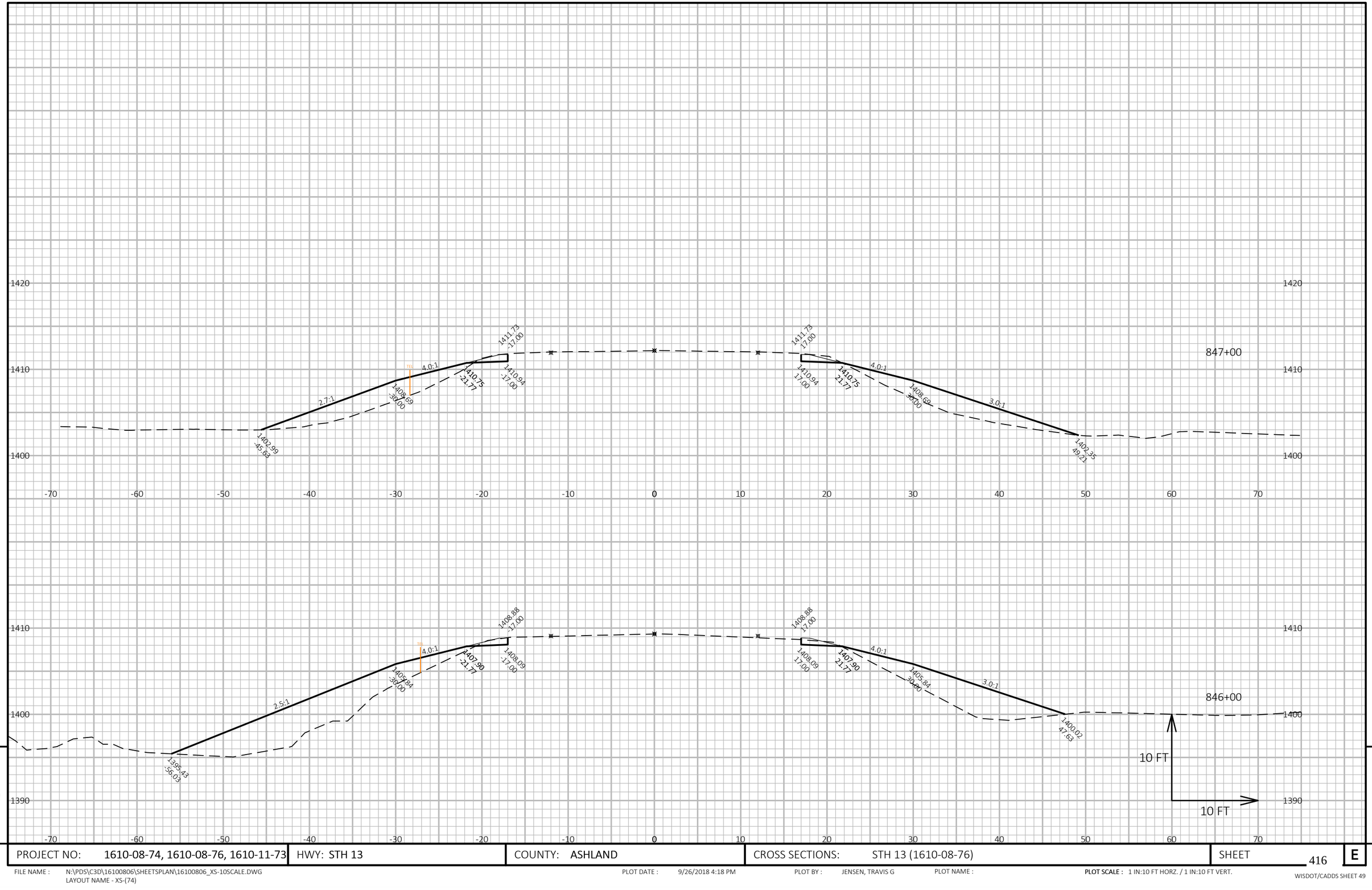
PLOT DATE : 9/26/2018 4:18 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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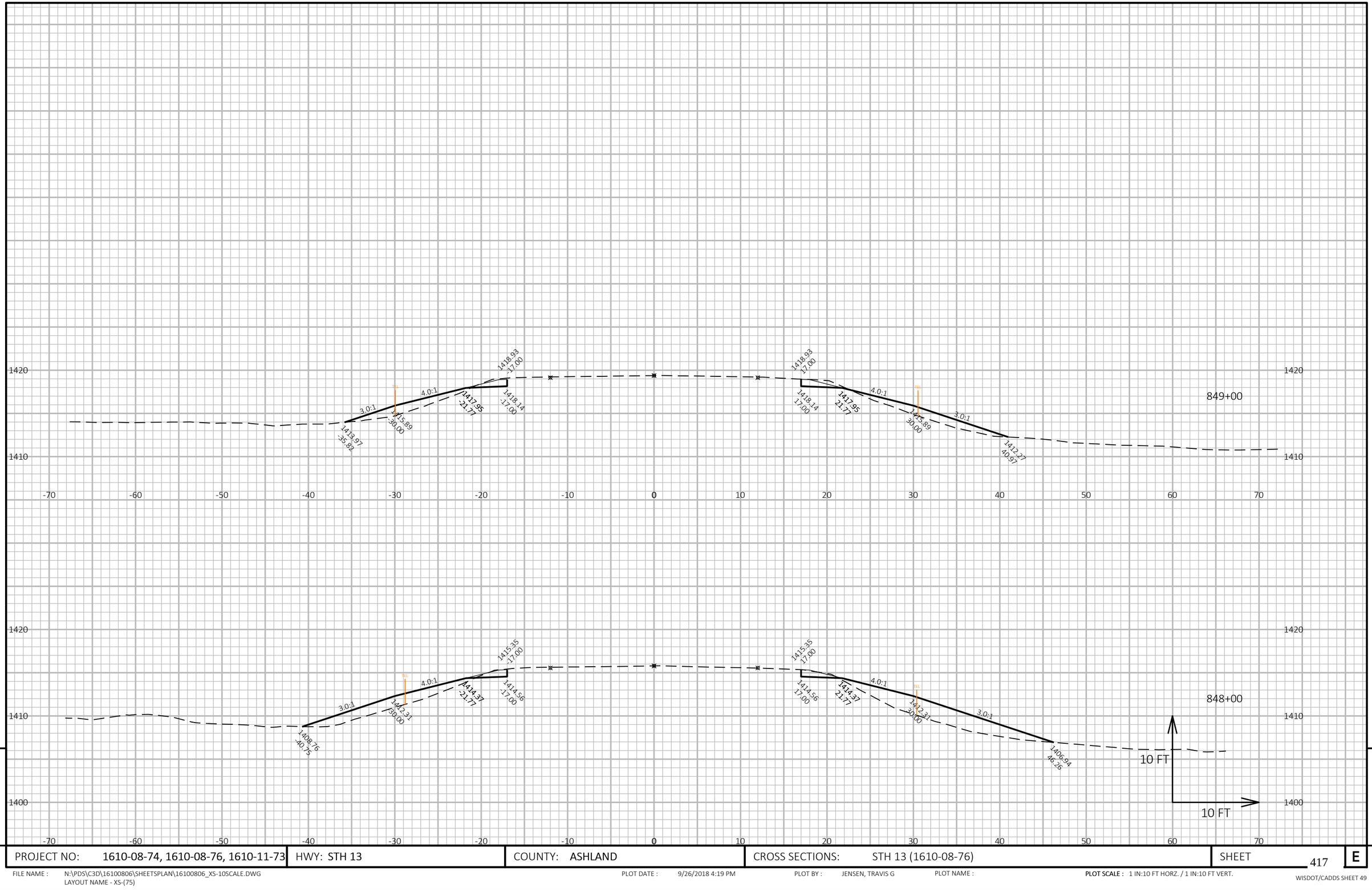
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 416	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(74)

PLOT DATE : 9/26/2018 4:18 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

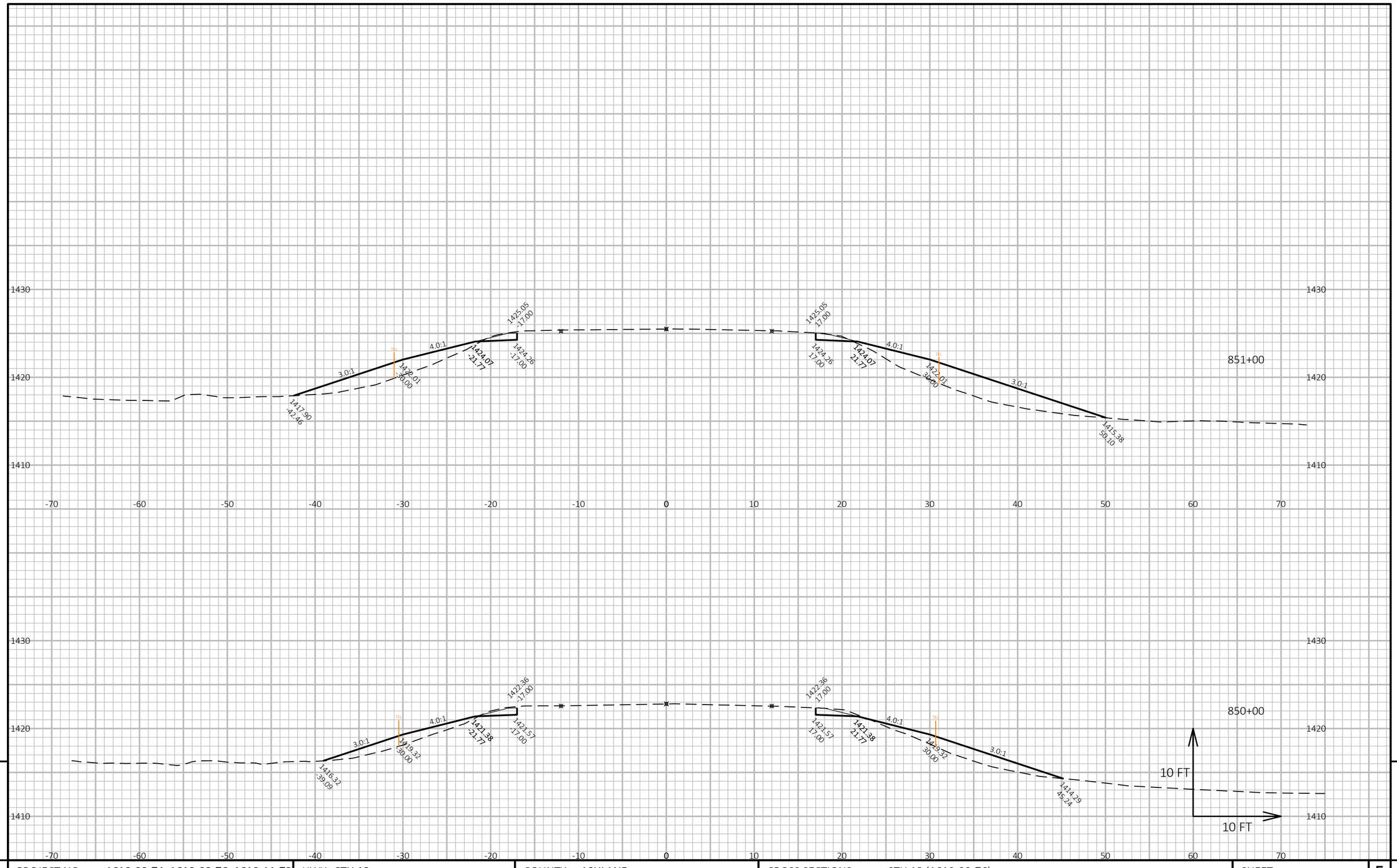
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 417	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(75)

PLOT DATE : 9/26/2018 4:19 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 418	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(76)

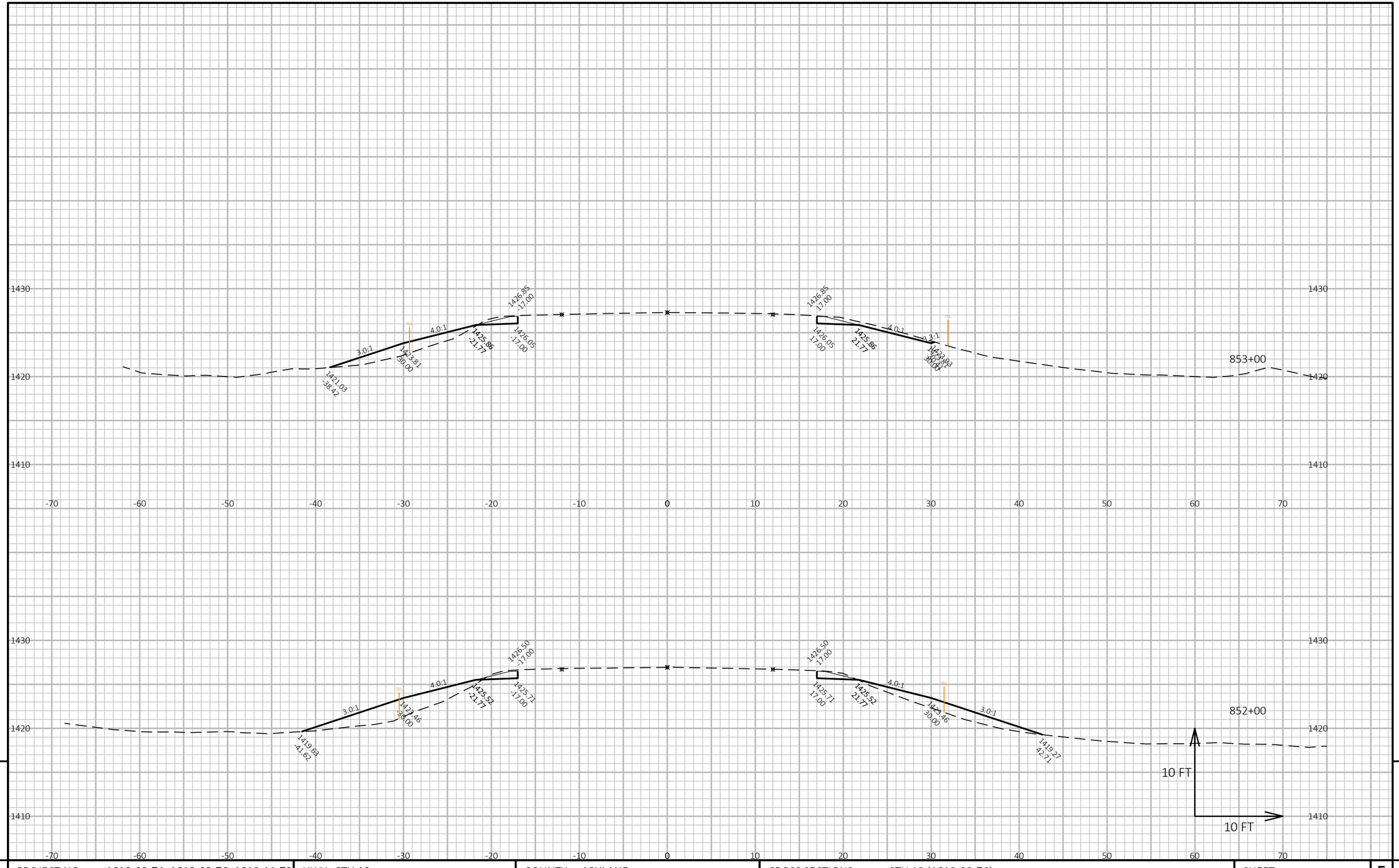
PLOT DATE : 9/26/2018 4:19 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 419	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(77)

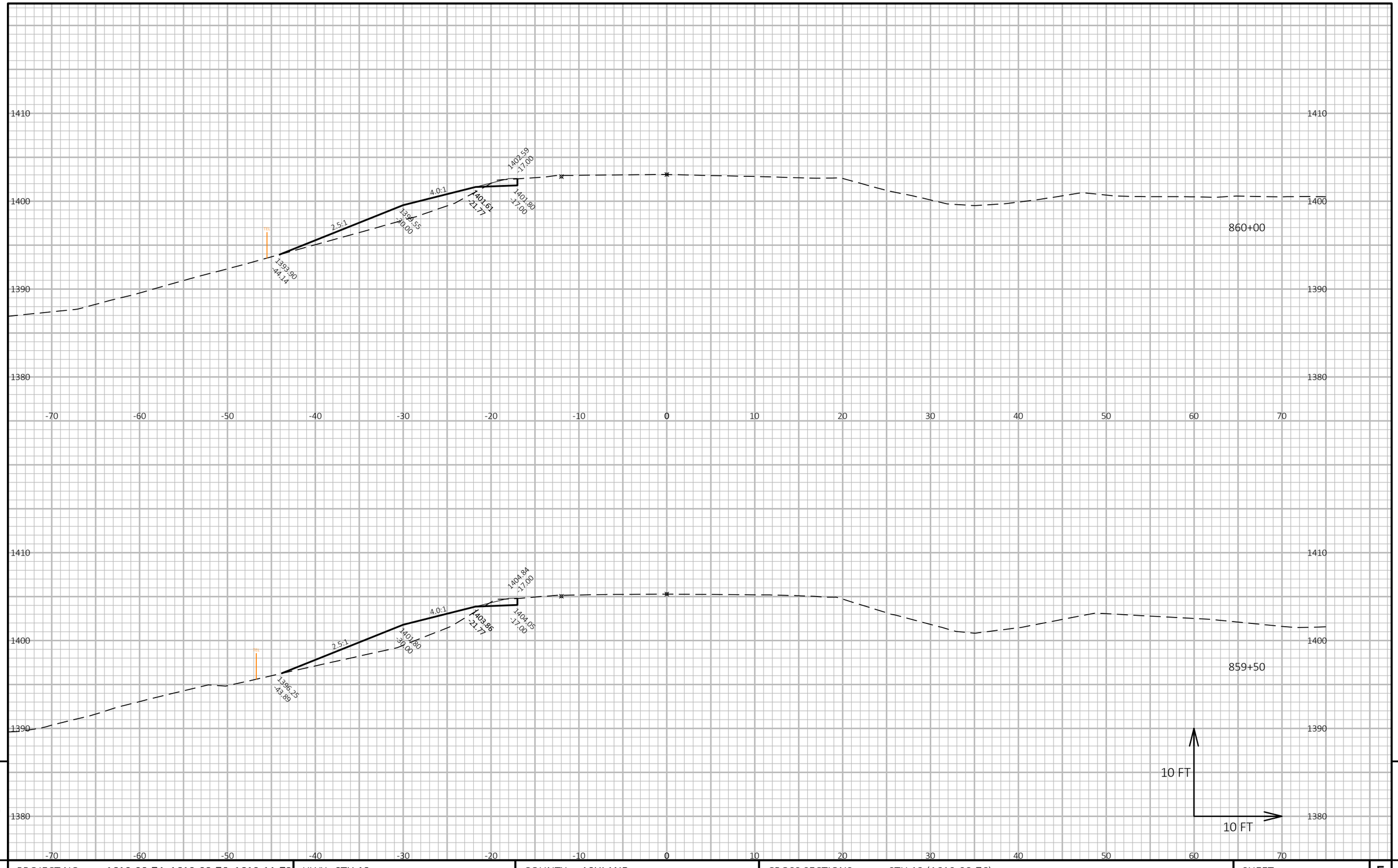
PLOT DATE : 9/26/2018 4:19 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 420	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(78)

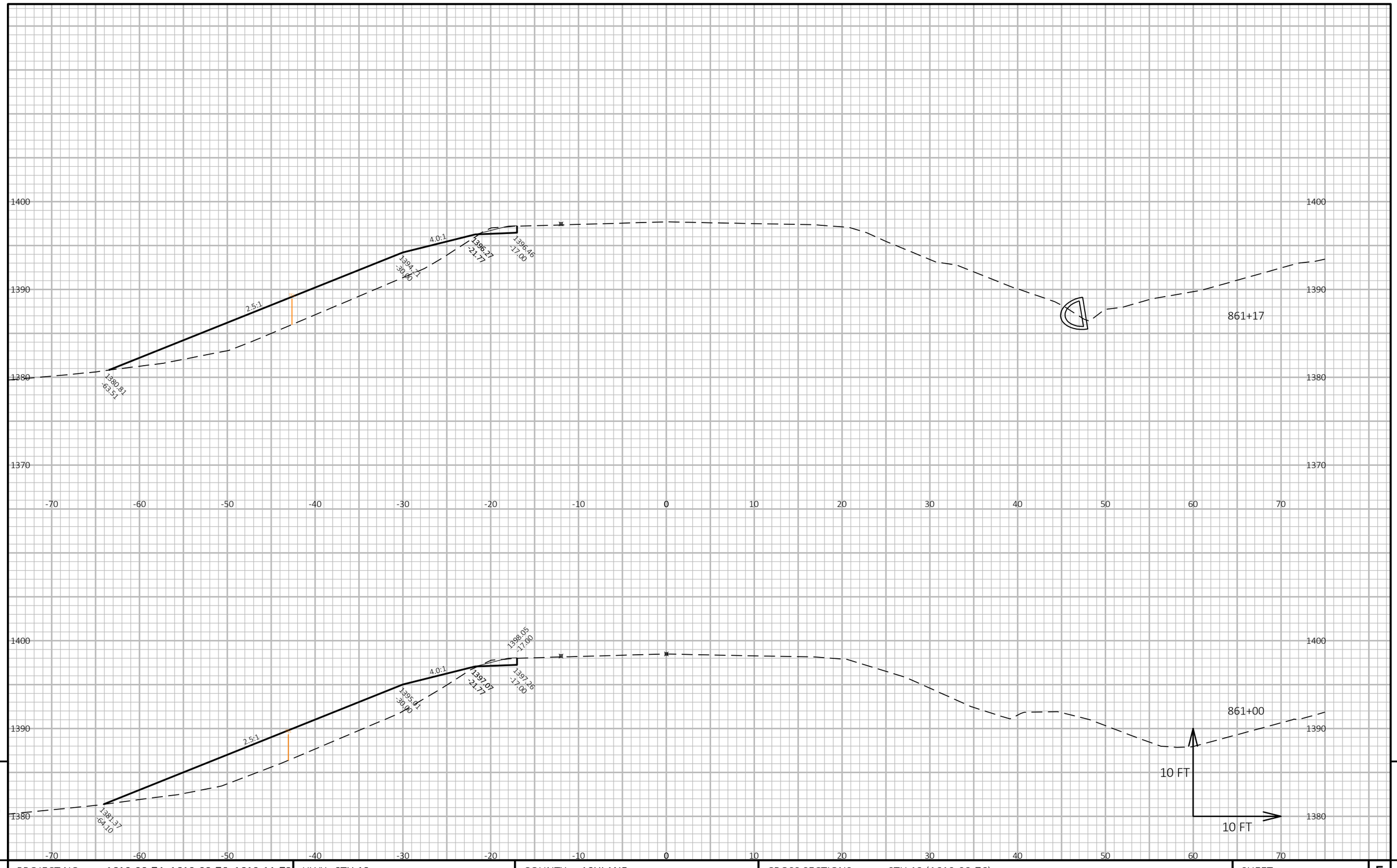
PLOT DATE : 9/26/2018 4:19 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 421	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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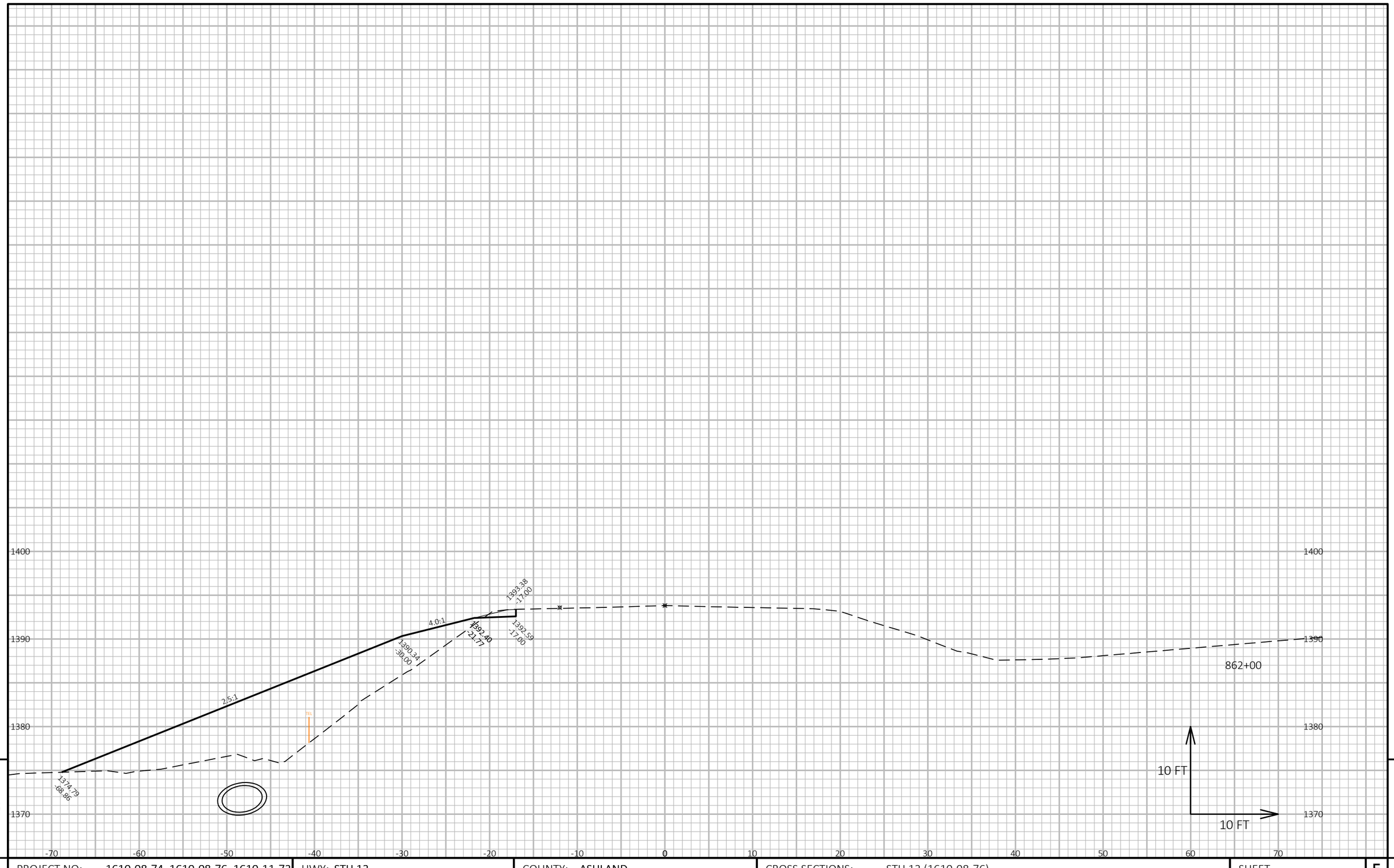
PLOT DATE : 9/26/2018 4:19 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 422	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(80)

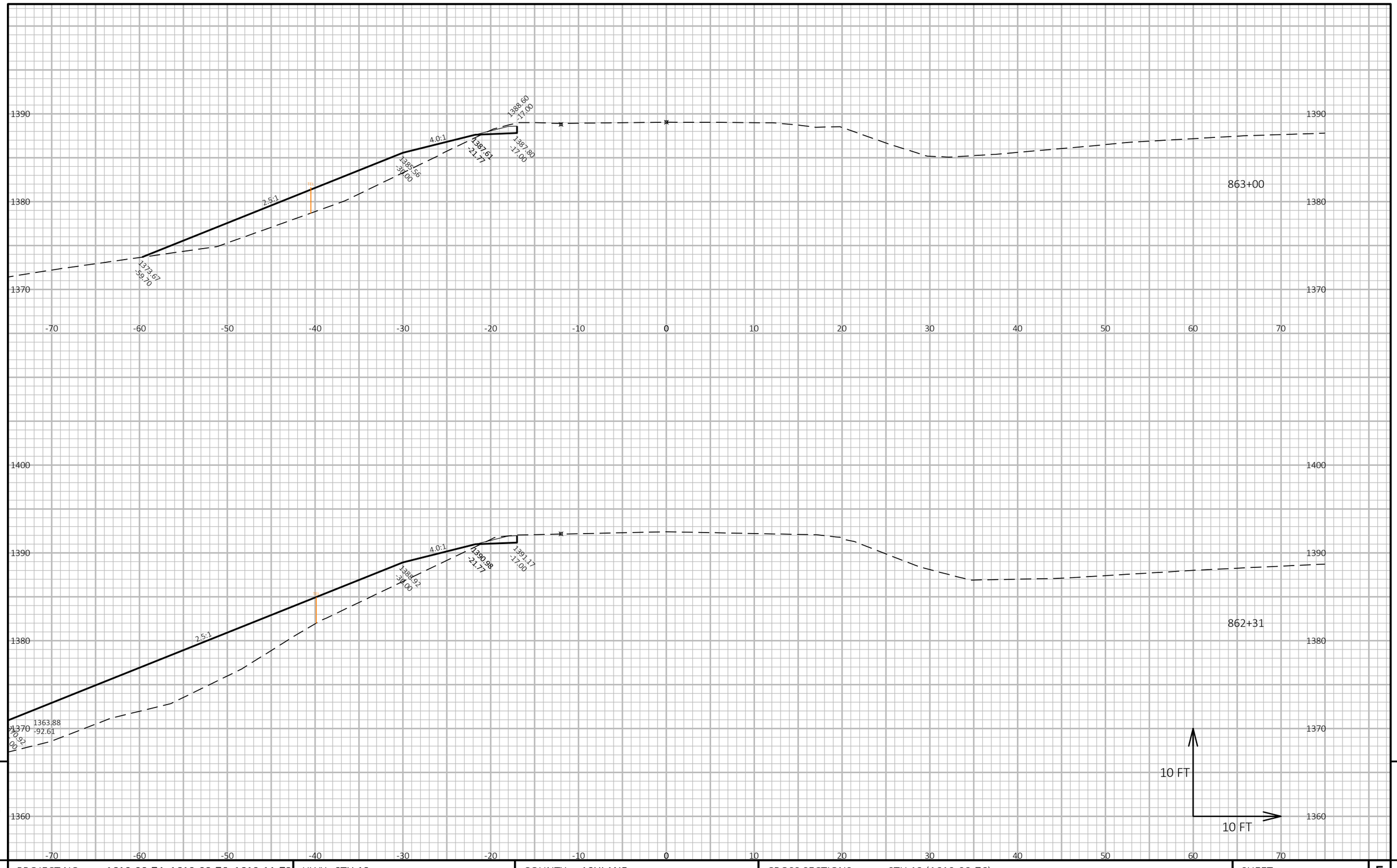
PLOT DATE : 9/26/2018 4:20 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 423 E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(81)

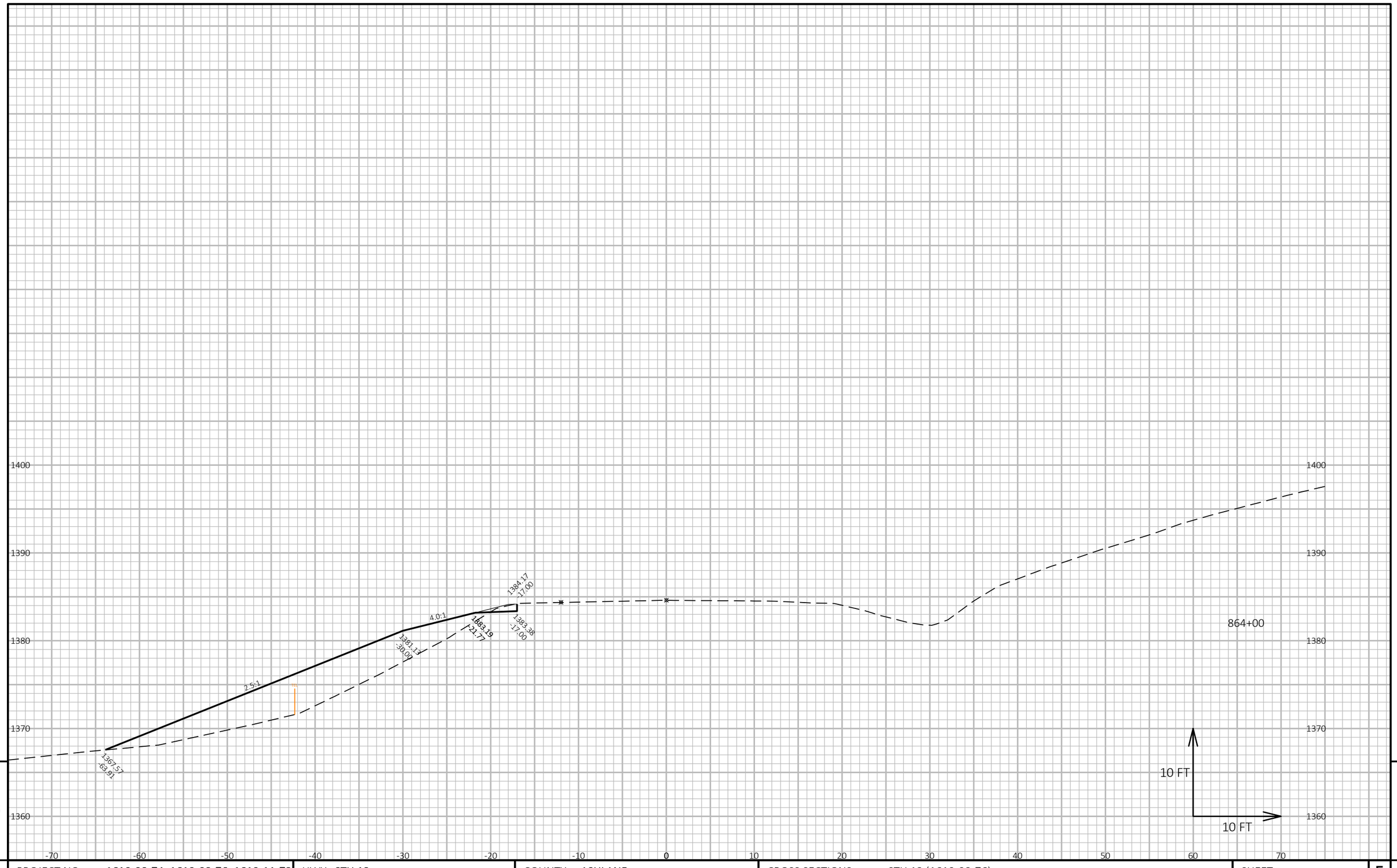
PLOT DATE : 9/26/2018 4:20 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 424	E

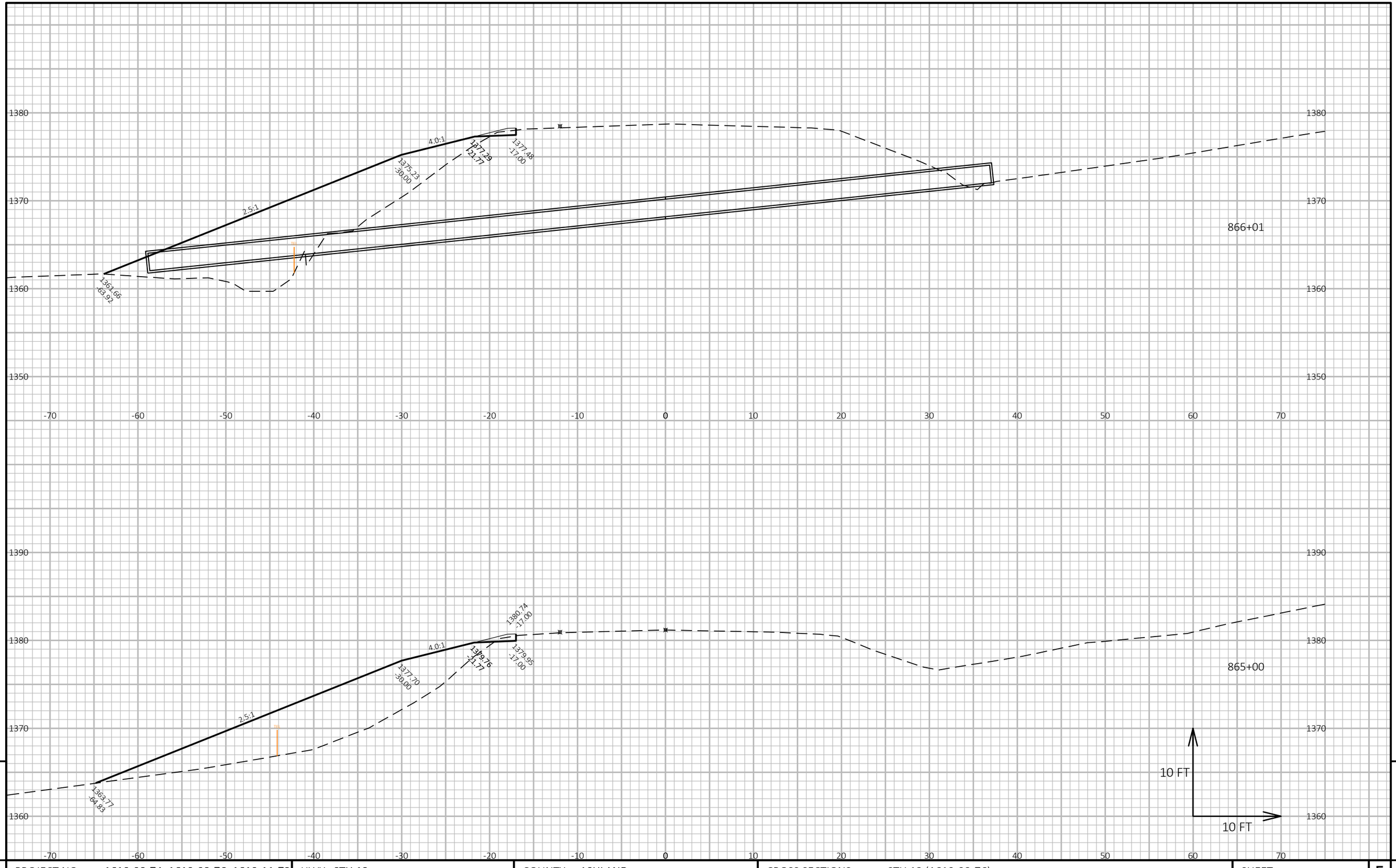
FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(82)

PLOT DATE : 9/26/2018 4:20 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

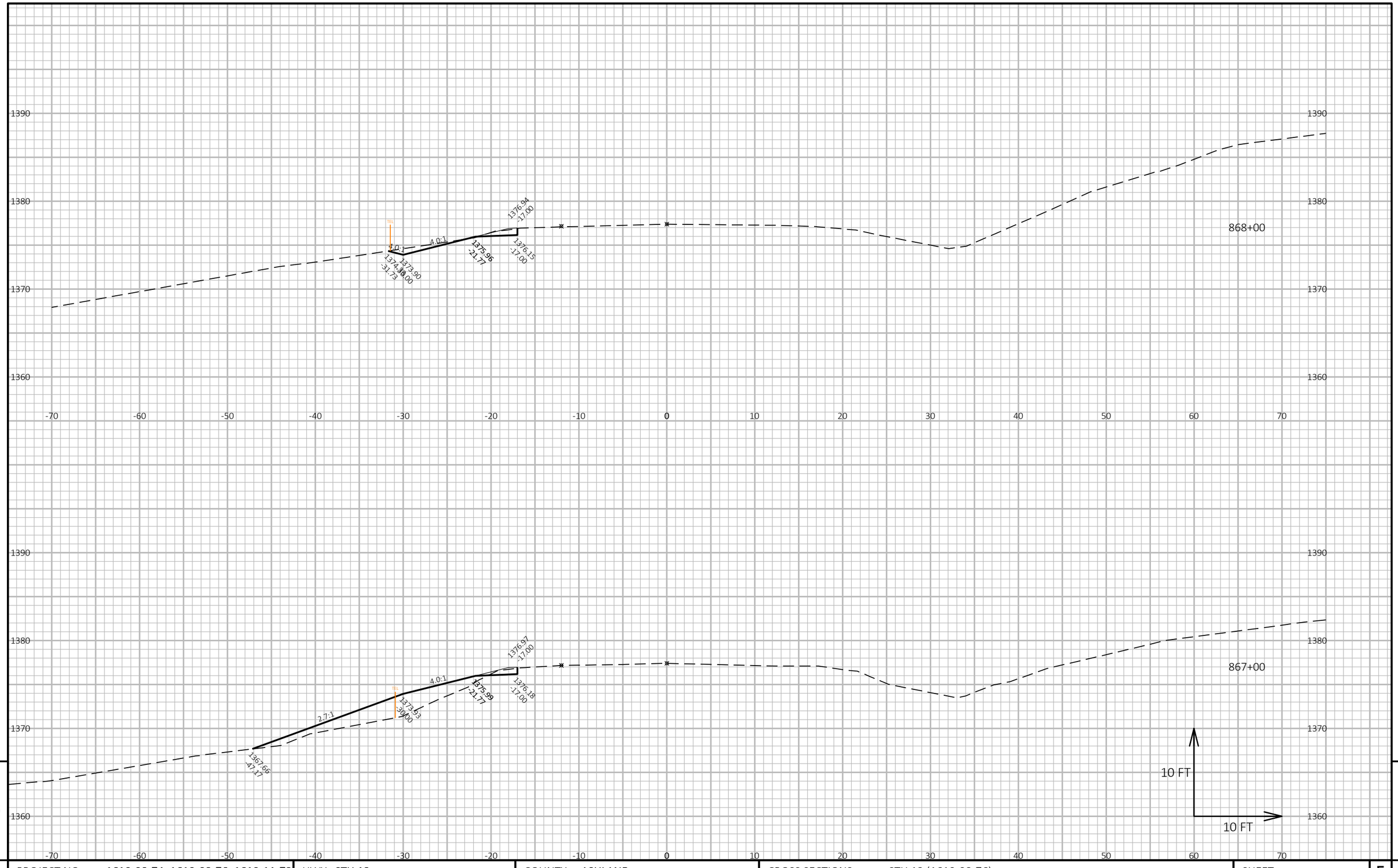


9 9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 425	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(83)

PLOT DATE : 9/26/2018 4:20 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 426	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(84)

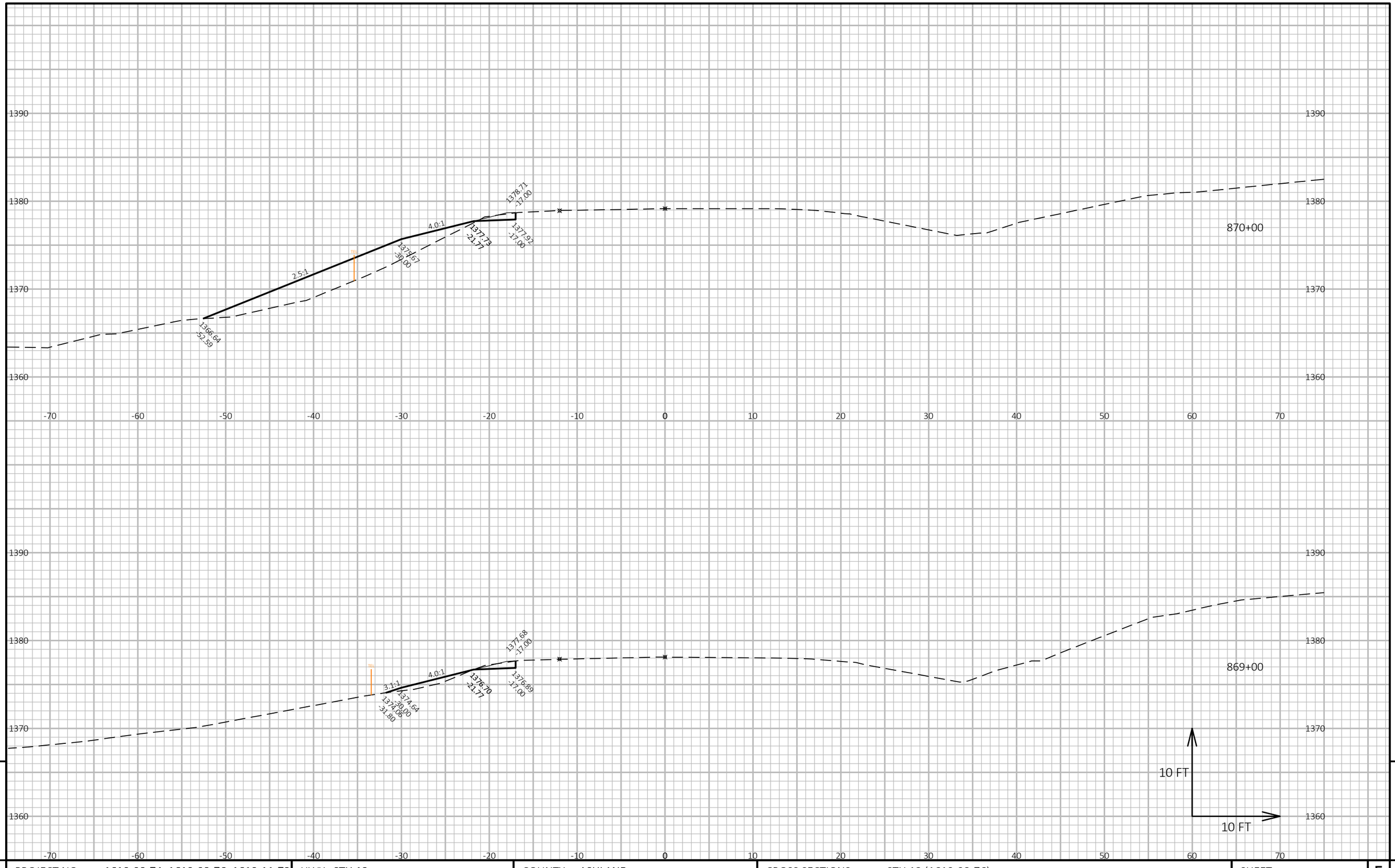
PLOT DATE : 9/26/2018 4:20 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 427	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(85)

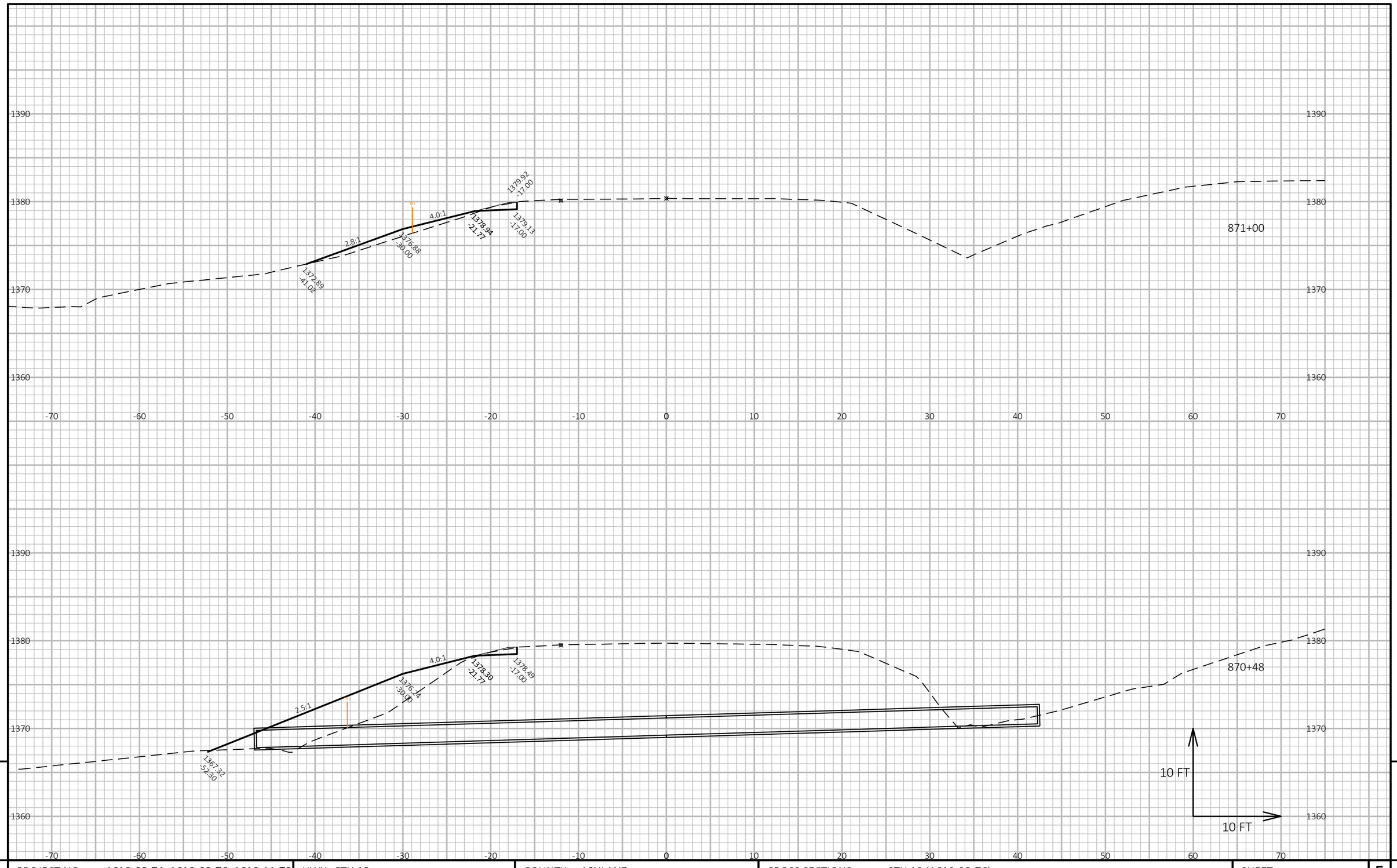
PLOT DATE : 9/26/2018 4:21 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 428	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(86)

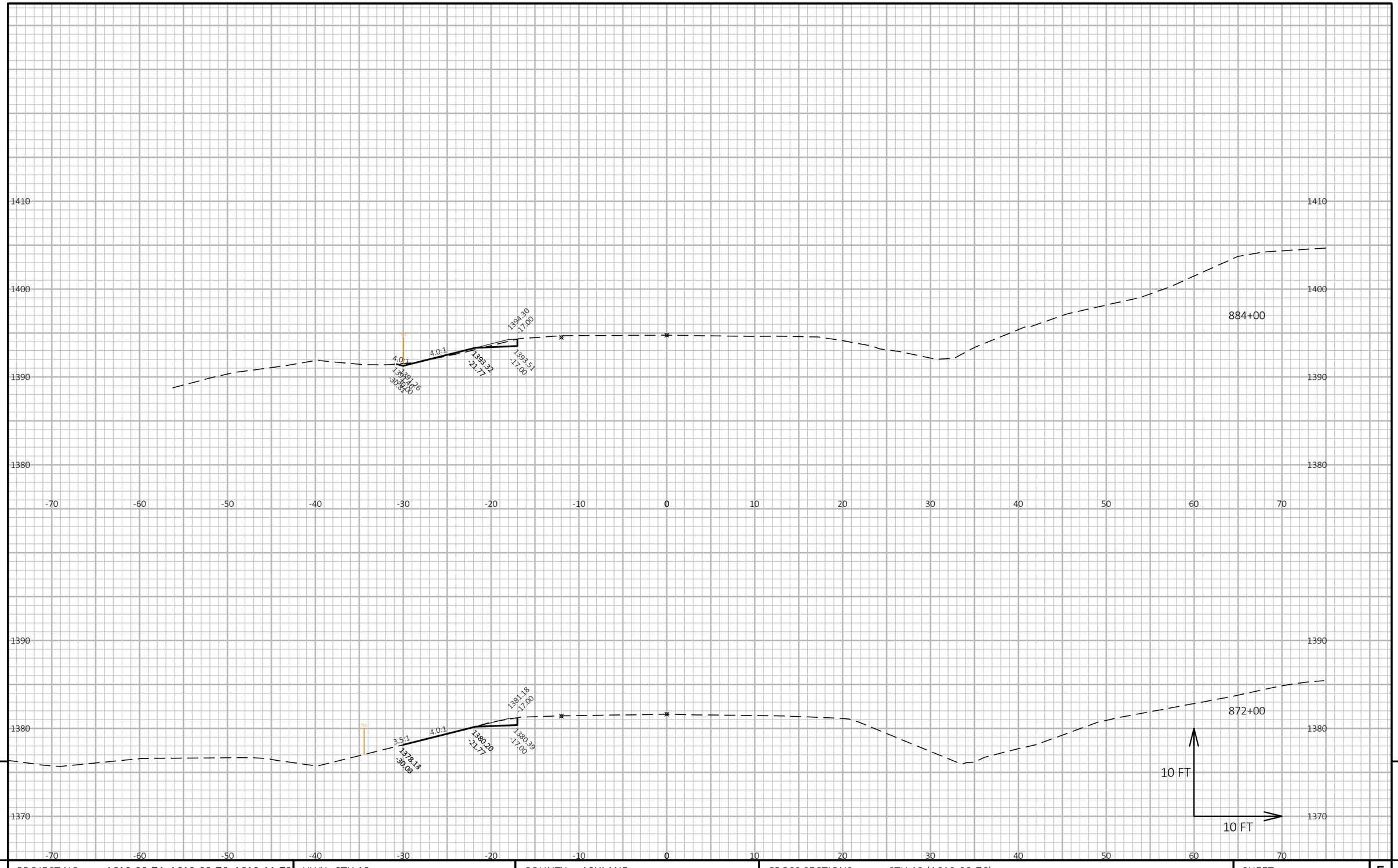
PLOT DATE : 9/26/2018 4:21 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 429	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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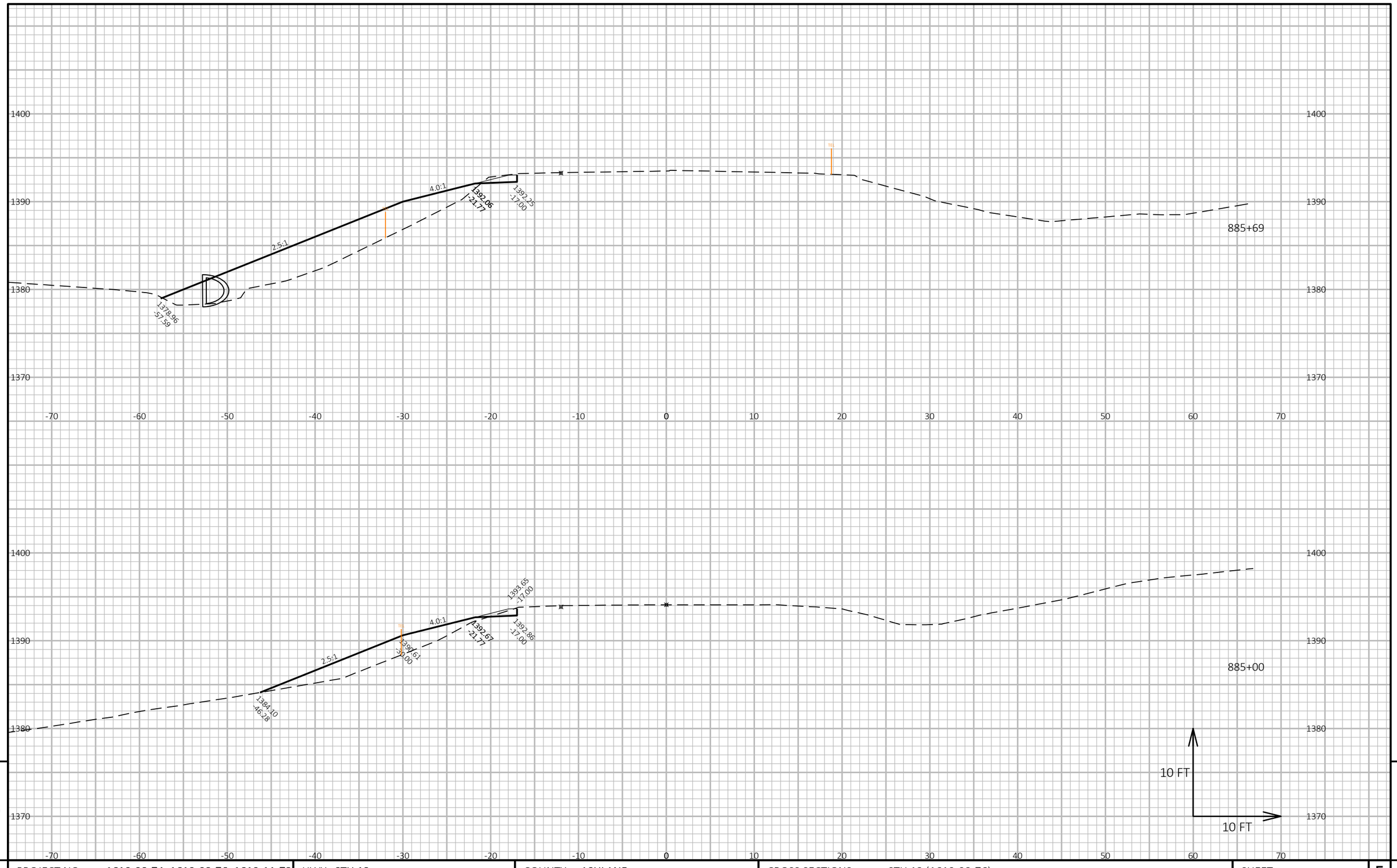
PLOT DATE : 9/26/2018 4:21 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 430	E

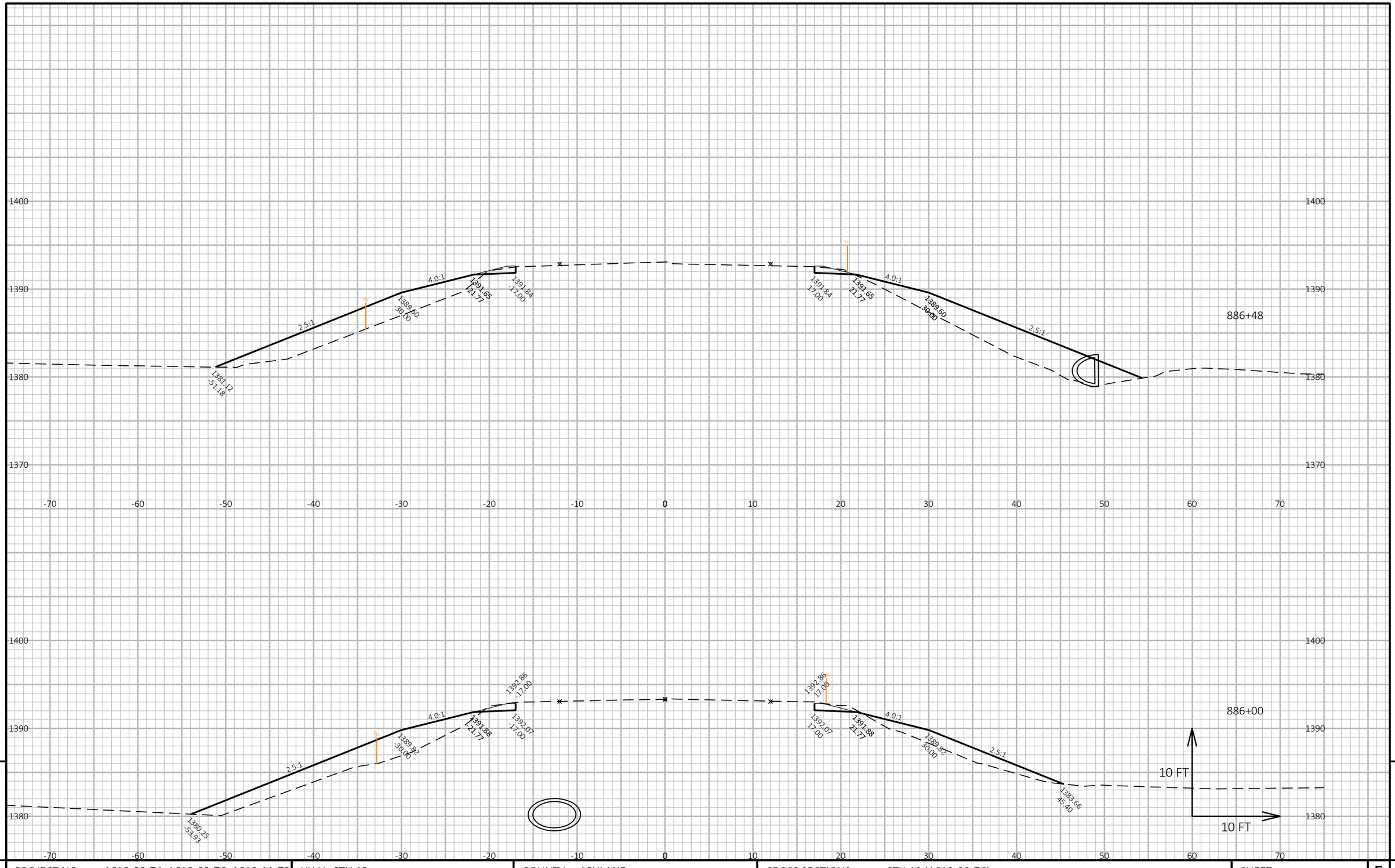
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LAYOUT NAME - XS-(88)

PLOT DATE : 9/26/2018 4:21 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 431	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(89)

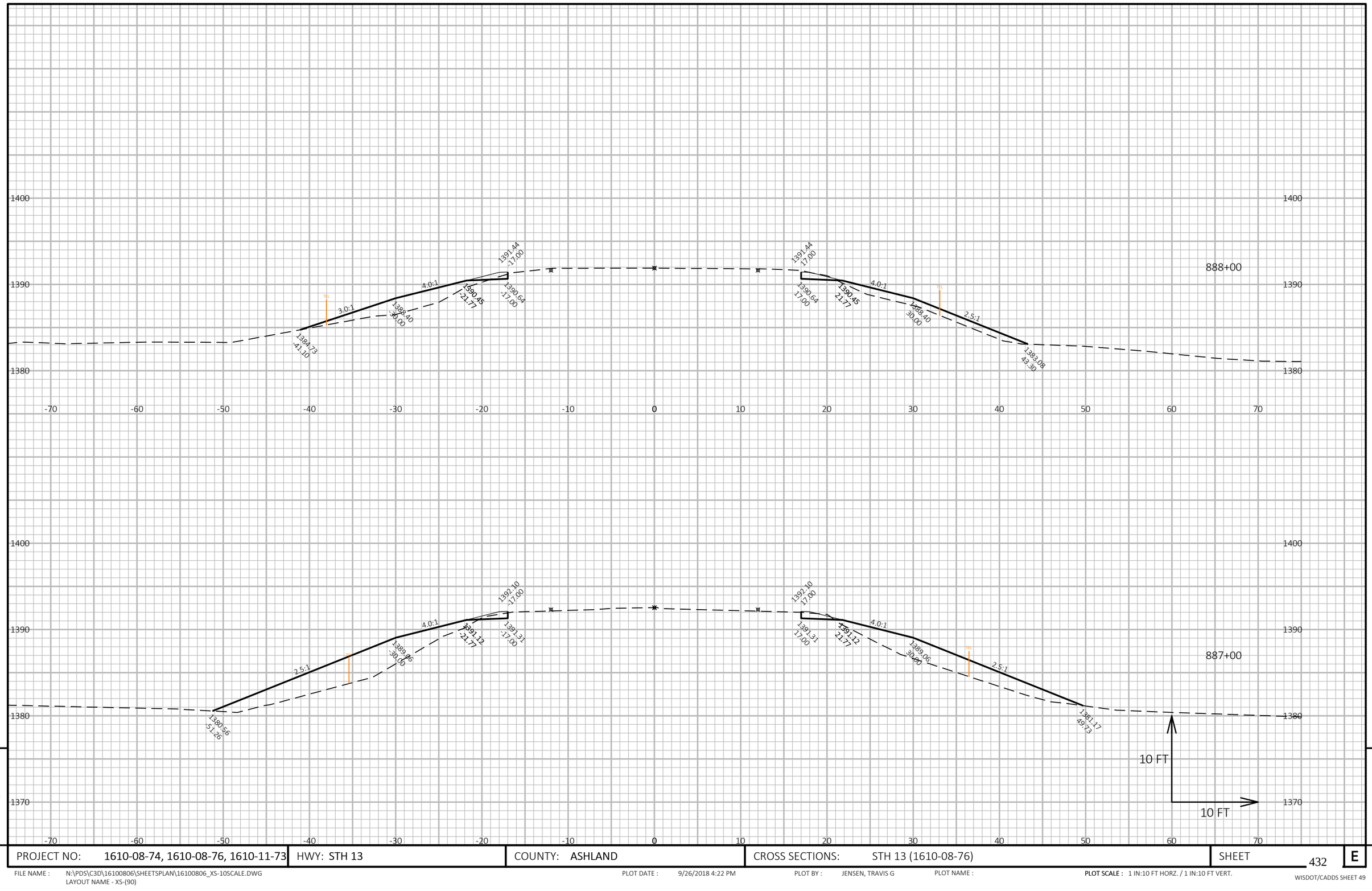
PLOT DATE : 9/26/2018 4:21 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 432	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(90)

PLOT DATE : 9/26/2018 4:22 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49

888+11

1400
1390
1380

1391.37
-17.00
4.0:1
3.0:1
1390.39
-21.77
1390.58
-17.00
1388.33
-30.00
1385.83
-37.58
TF0
TF1
-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

888+10

1391.38
17.00
1390.59
17.00
1390.40
-21.77
1388.24
-30.00
1384.08
-40.71
2.5:1
10 FT
10 FT

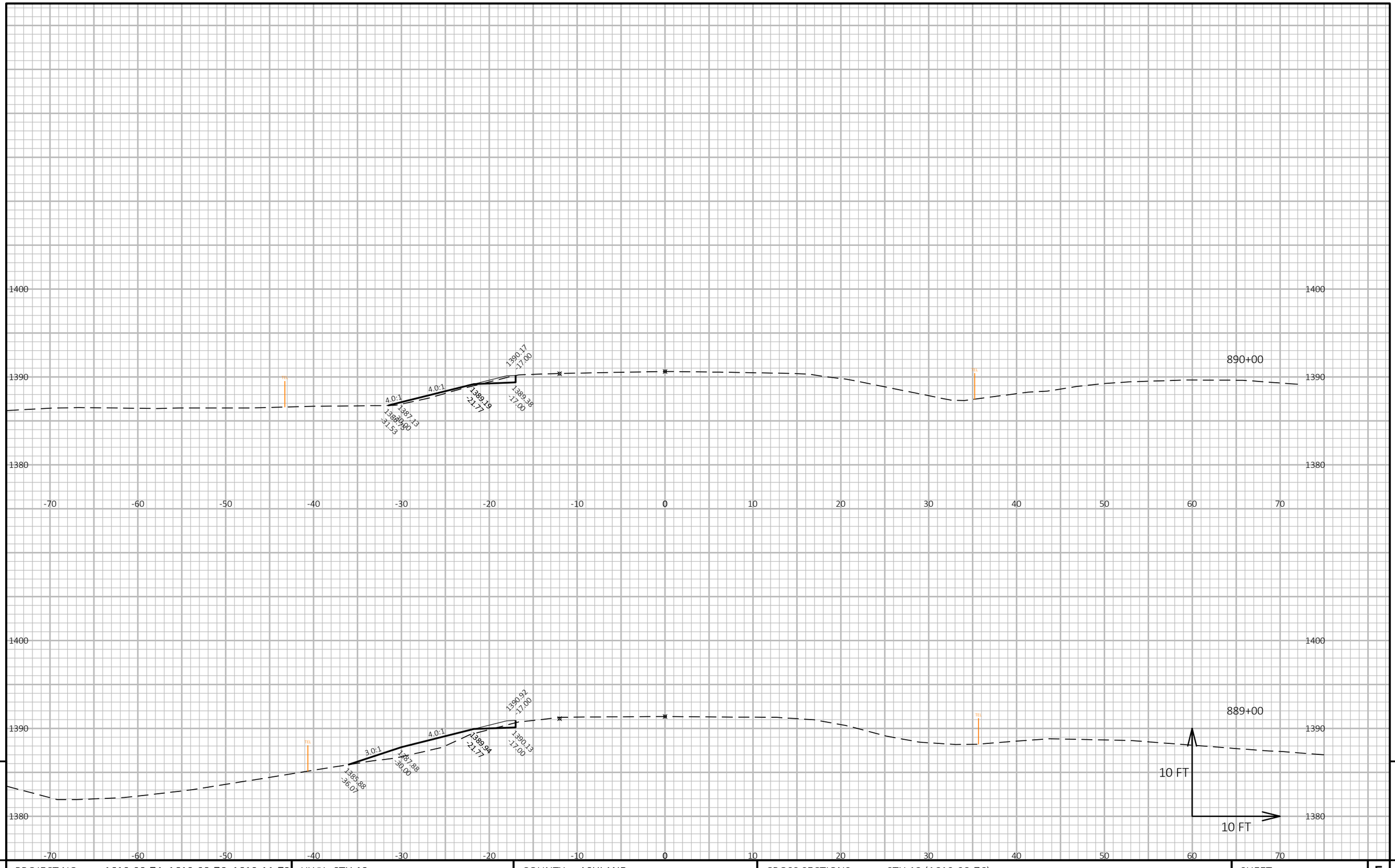
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 433	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(91)

PLOT DATE : 9/26/2018 4:22 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 434	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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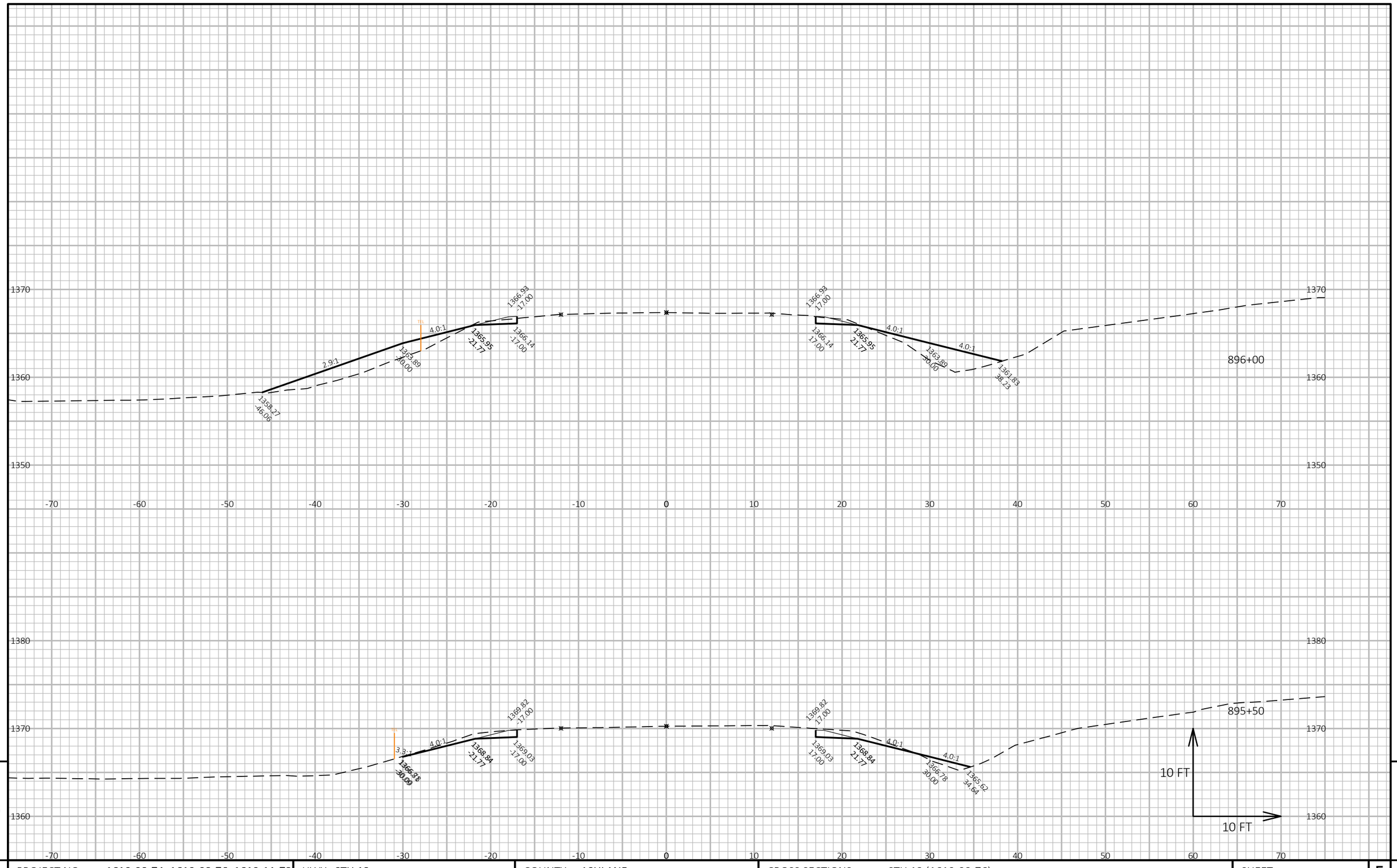
PLOT DATE : 9/26/2018 4:22 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 435	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(93)

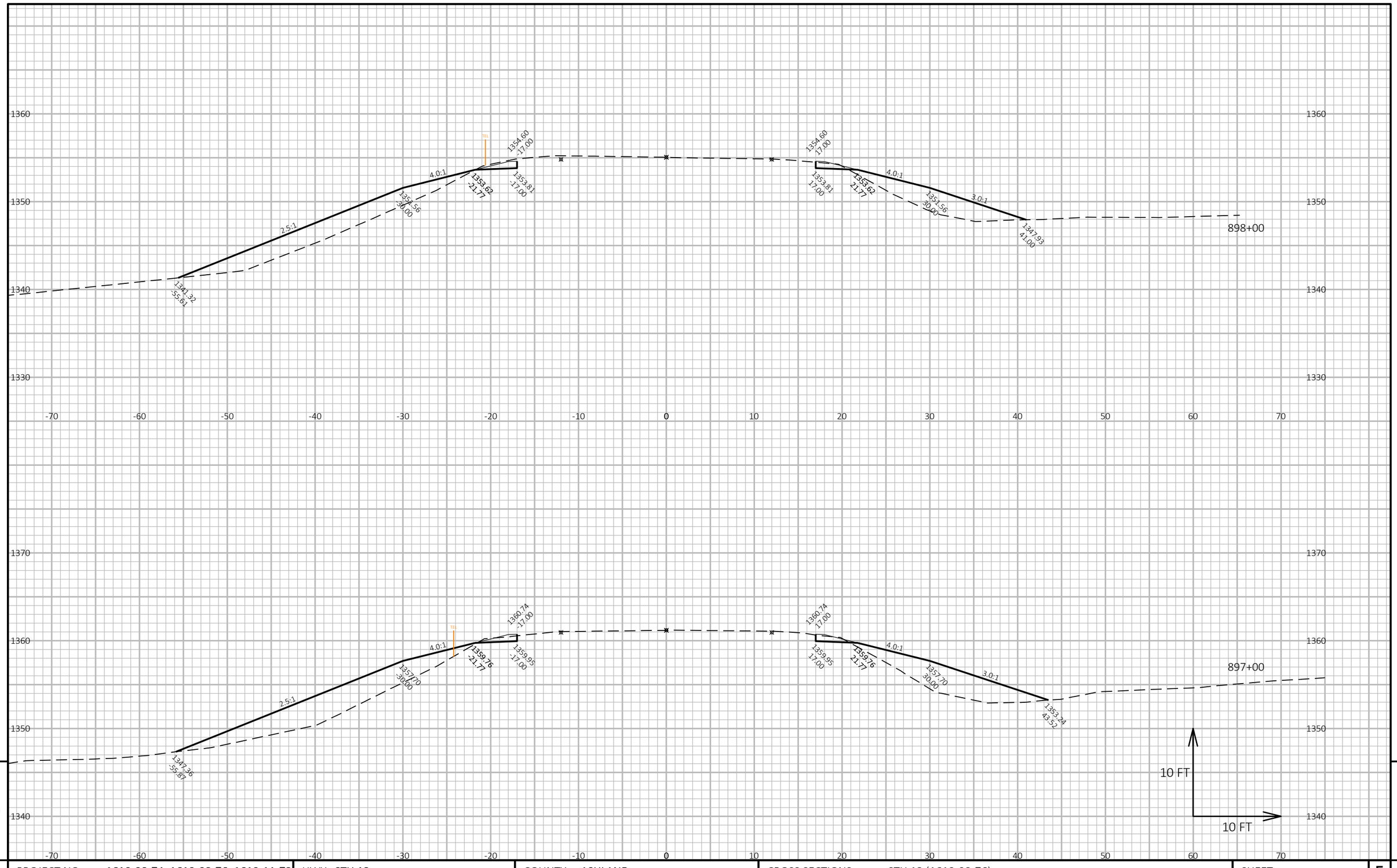
PLOT DATE : 9/26/2018 4:22 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 436	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(94)

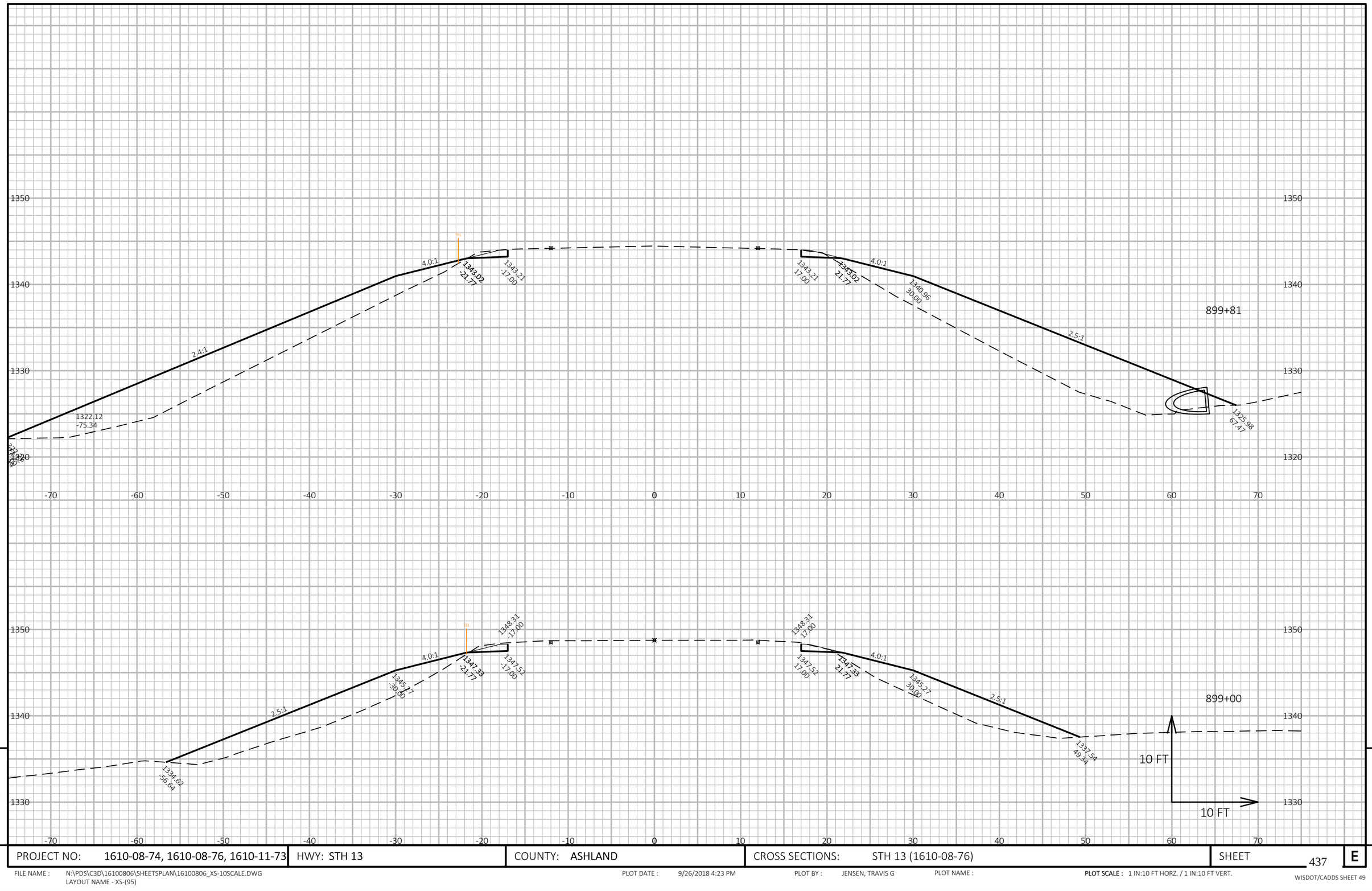
PLOT DATE : 9/26/2018 4:22 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 437	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(95)

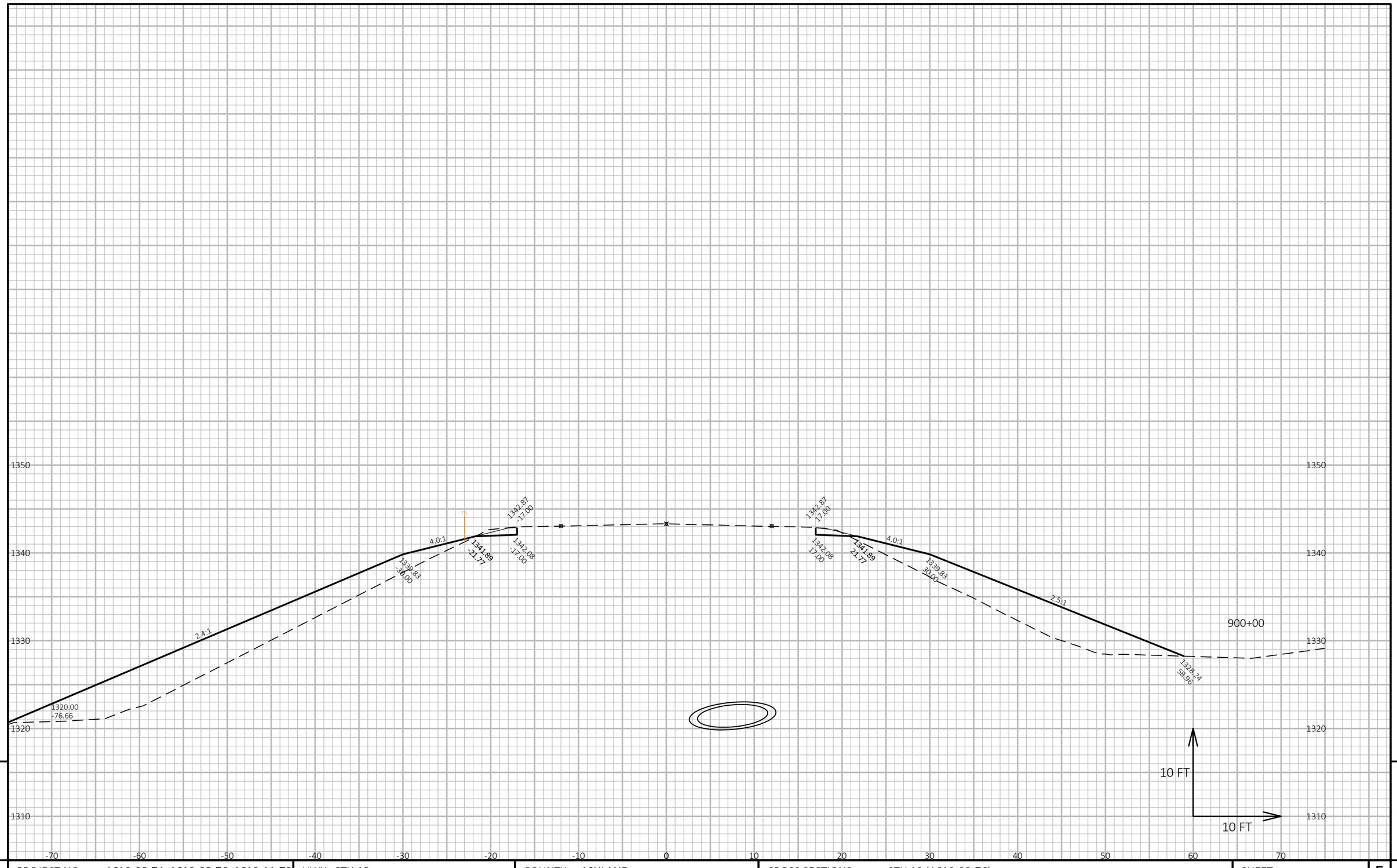
PLOT DATE : 9/26/2018 4:23 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 438	E

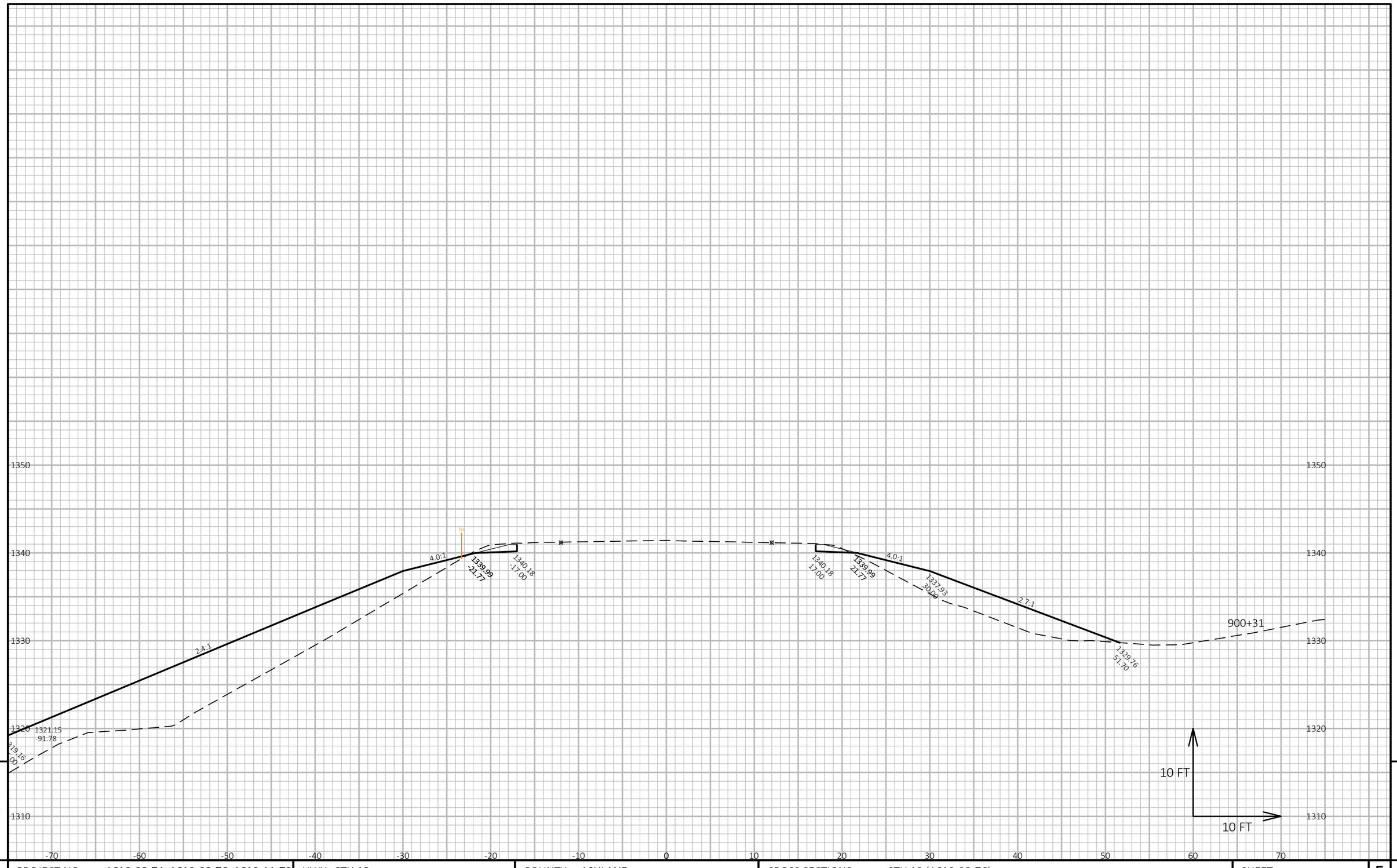
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LAYOUT NAME - XS-(96)

PLOT DATE : 9/26/2018 4:23 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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



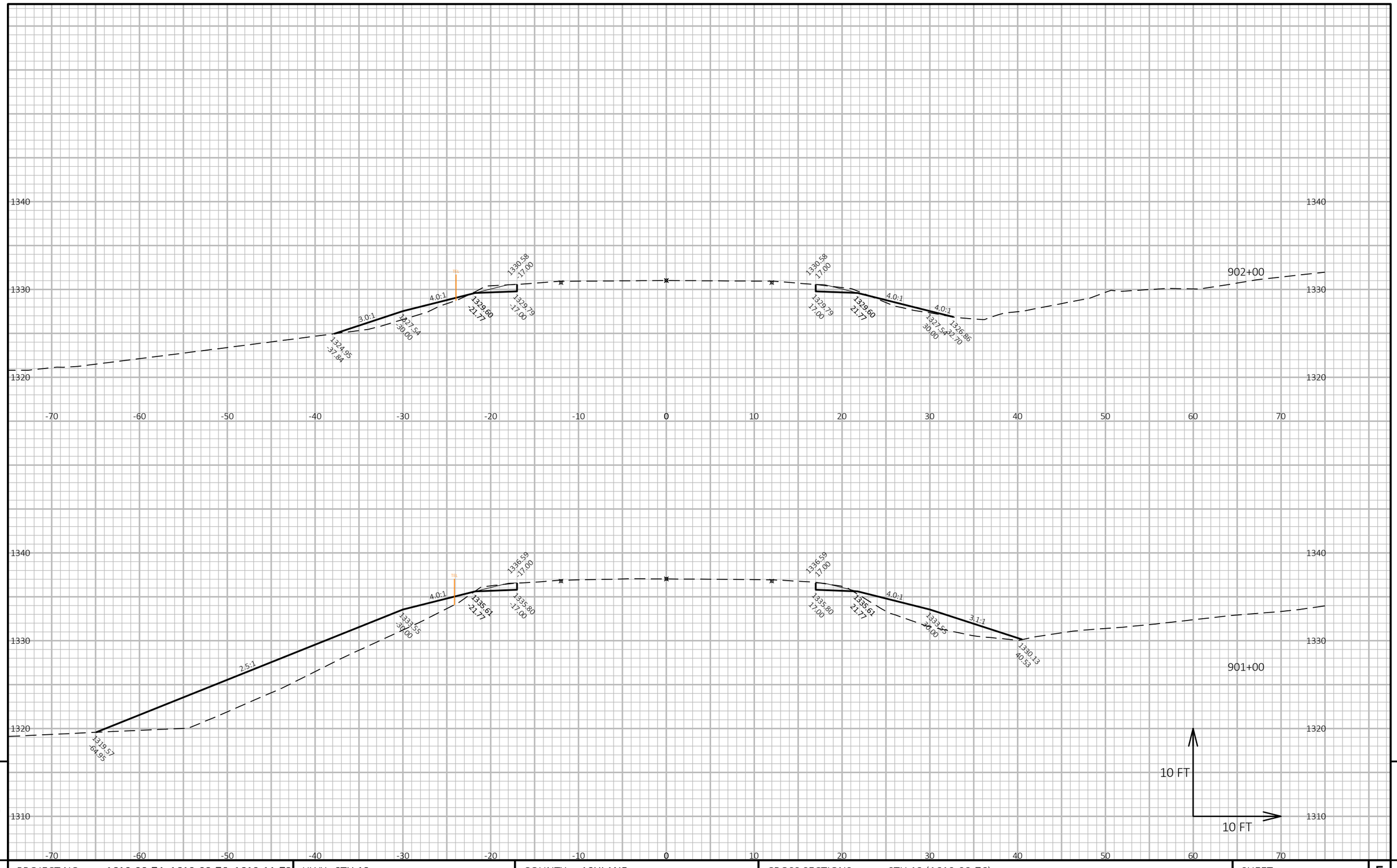
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 439	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(97)

PLOT DATE : 9/26/2018 4:23 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 440	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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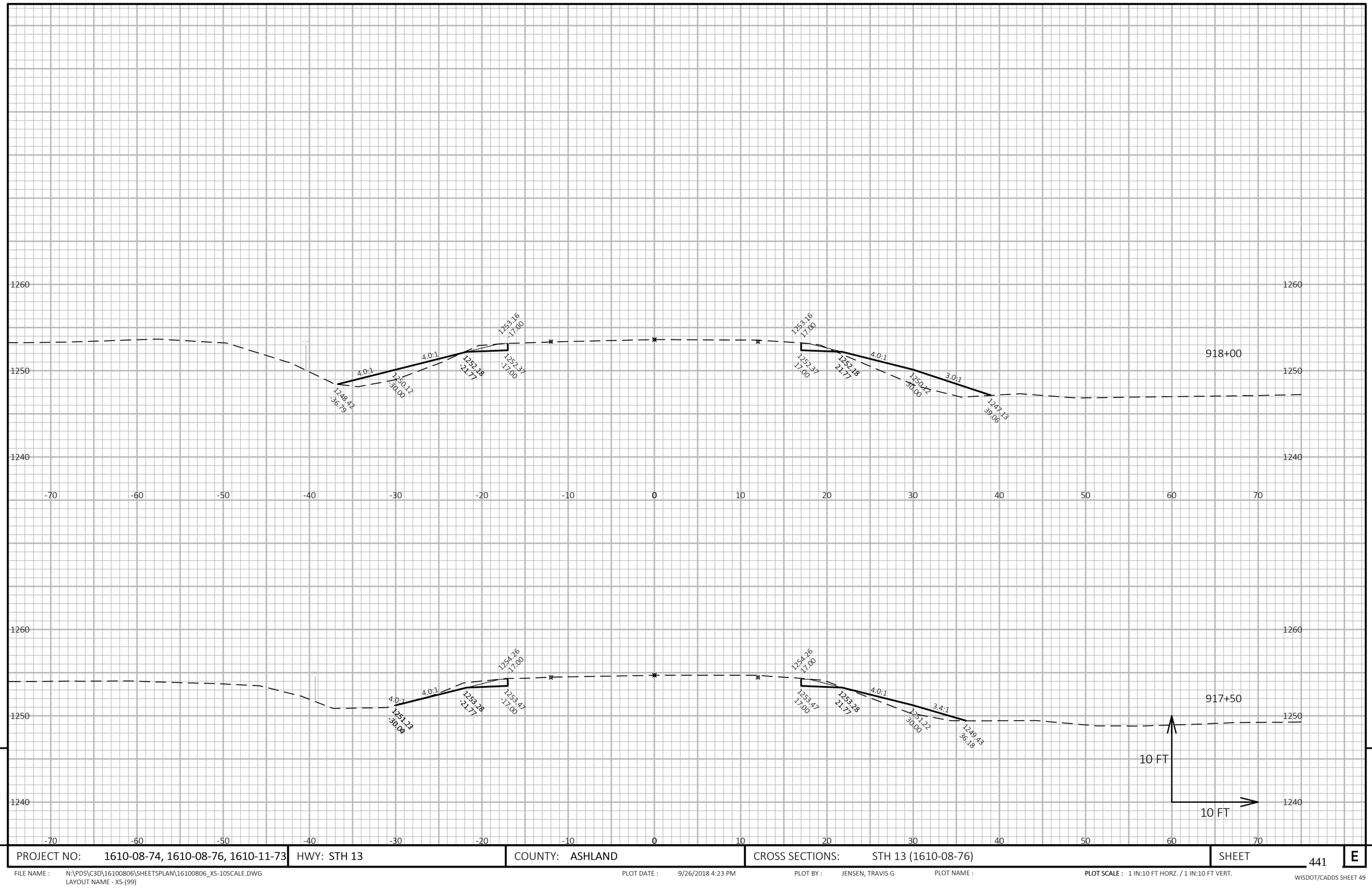
PLOT DATE : 9/26/2018 4:23 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 441	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
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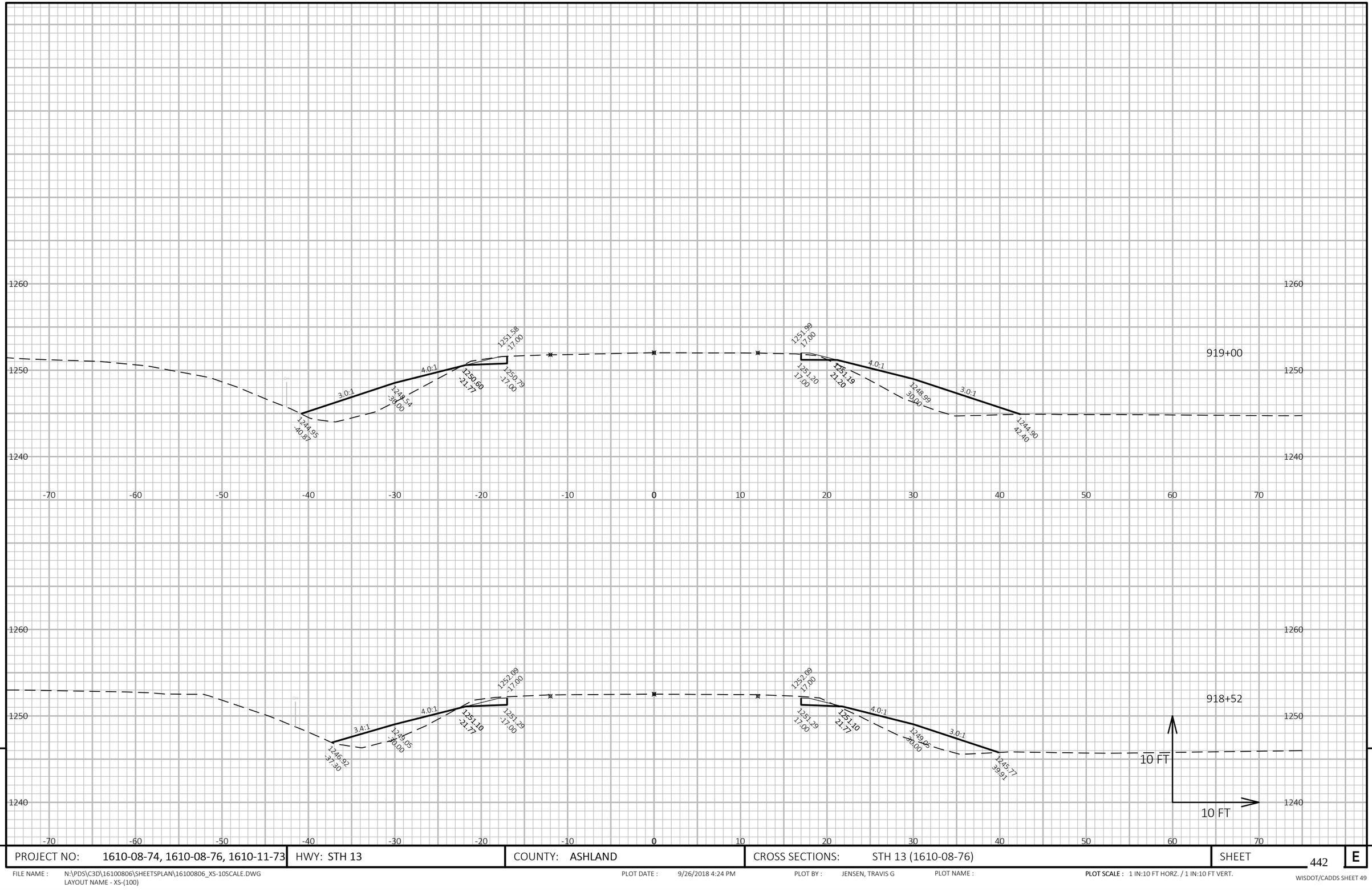
PLOT DATE : 9/26/2018 4:23 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 442	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(100)

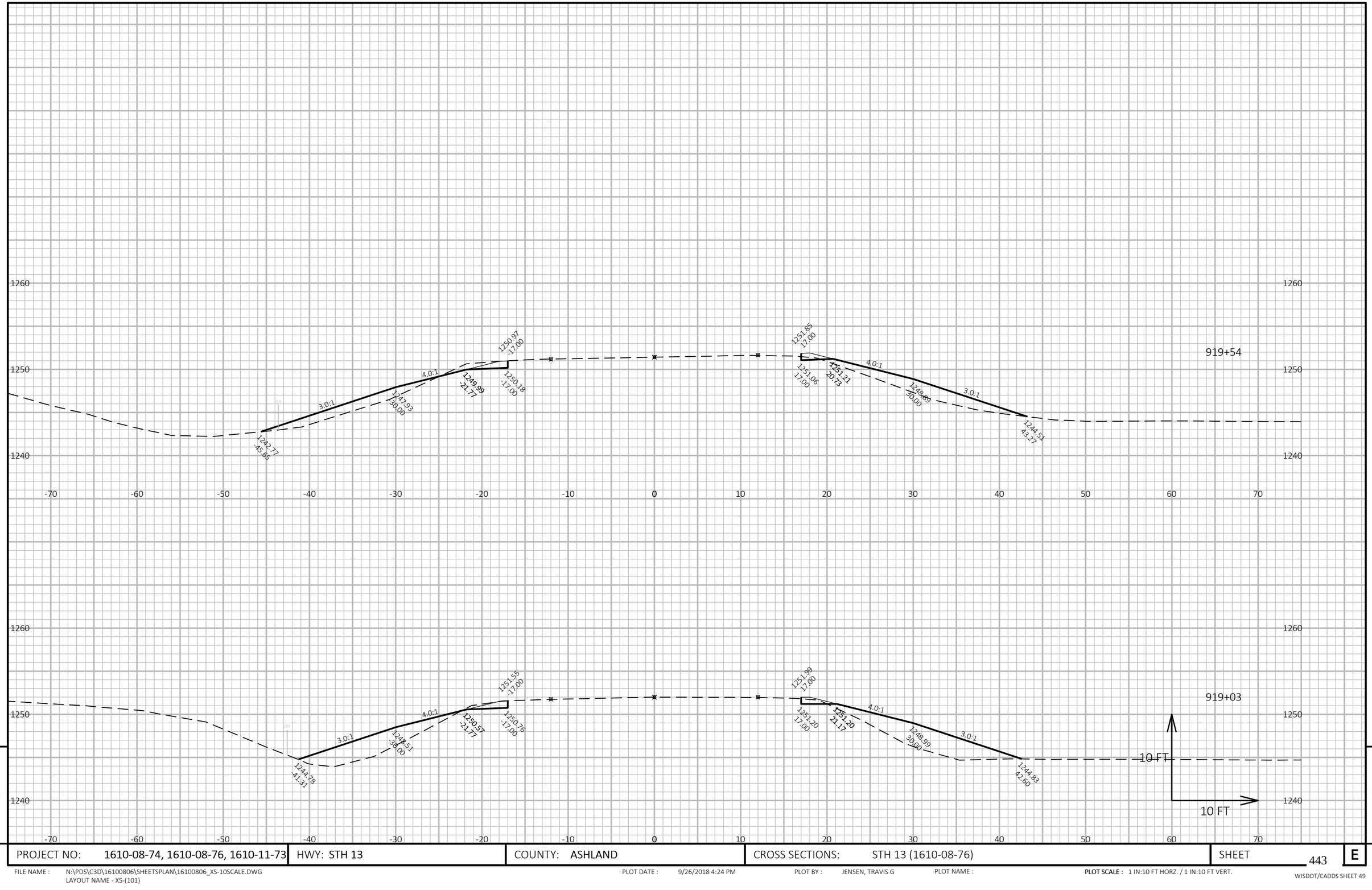
PLOT DATE : 9/26/2018 4:24 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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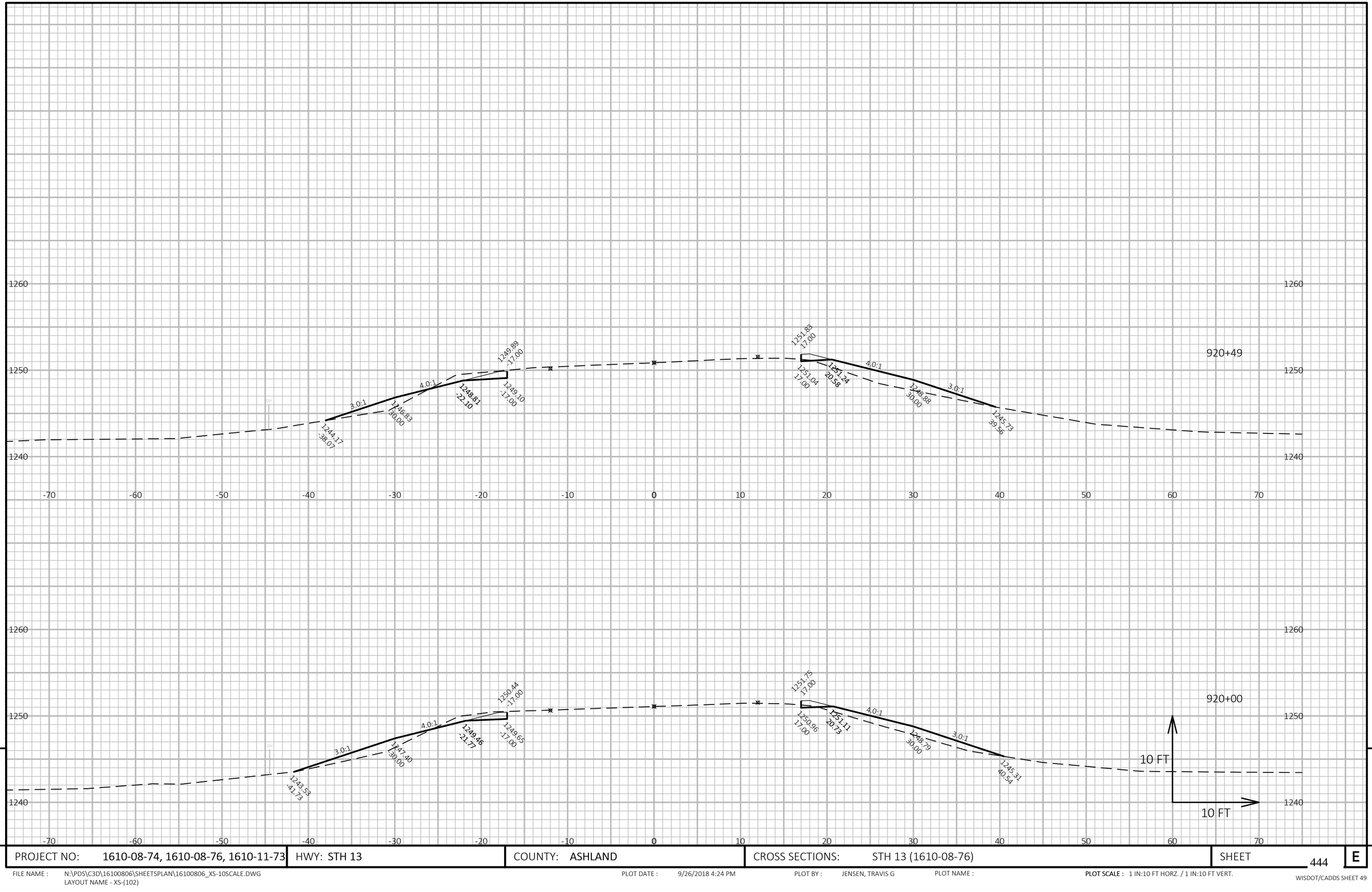
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PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 443	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(101)

PLOT DATE : 9/26/2018 4:24 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 444	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(102)

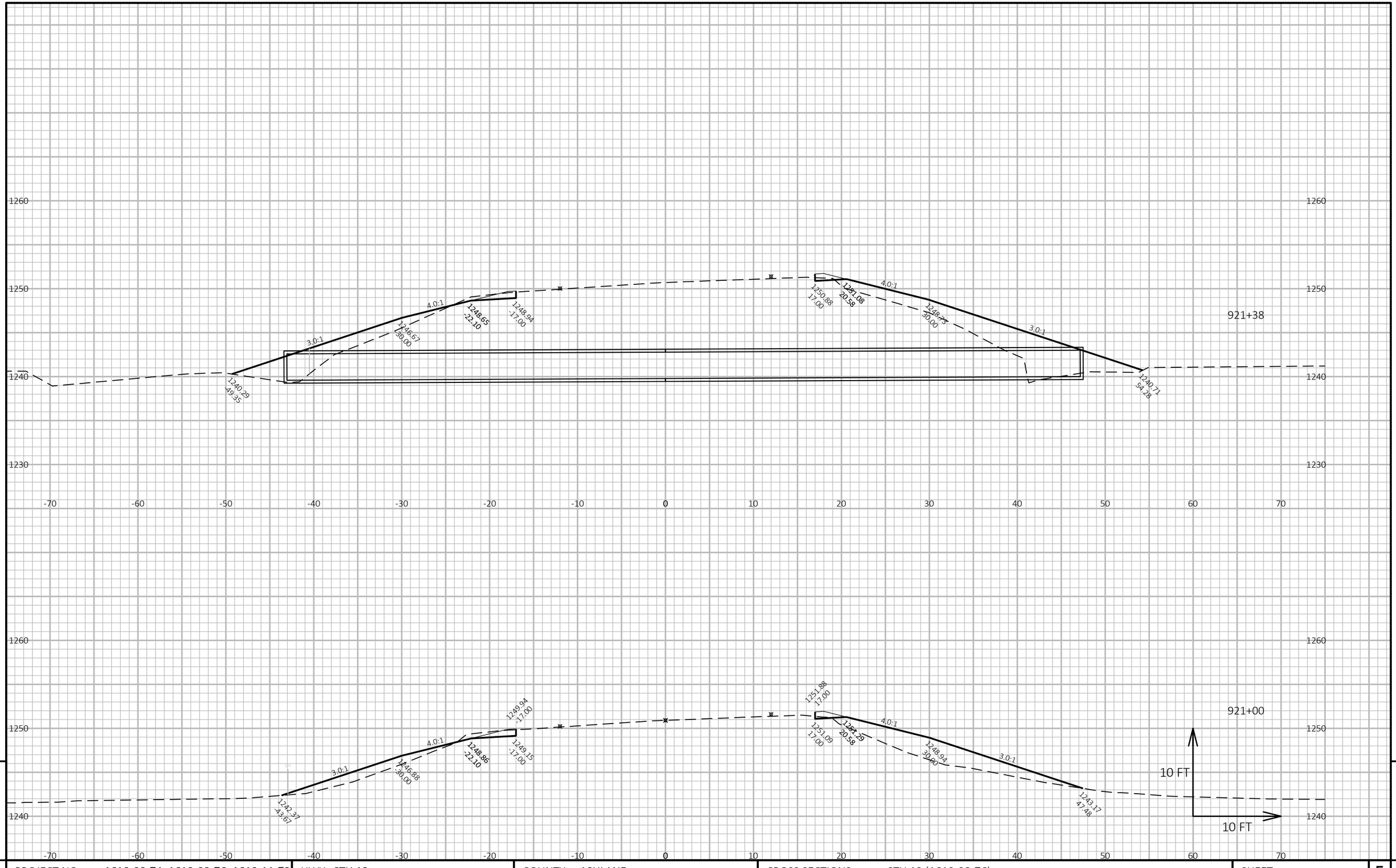
PLOT DATE : 9/26/2018 4:24 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



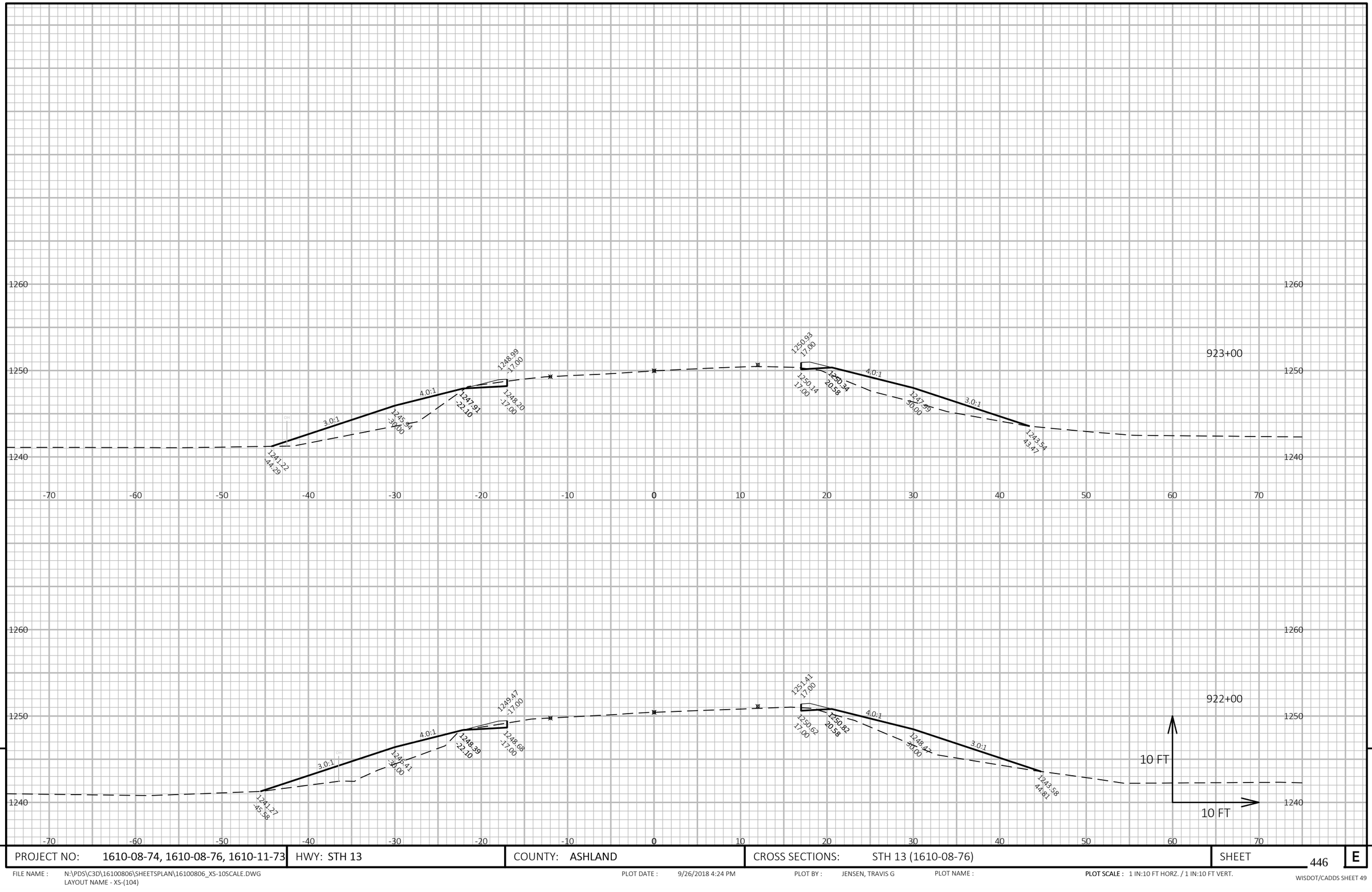
PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 445	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(103)

PLOT DATE : 9/26/2018 4:24 PM PLOT BY : JENSEN, TRAVIS G PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 446	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(104)

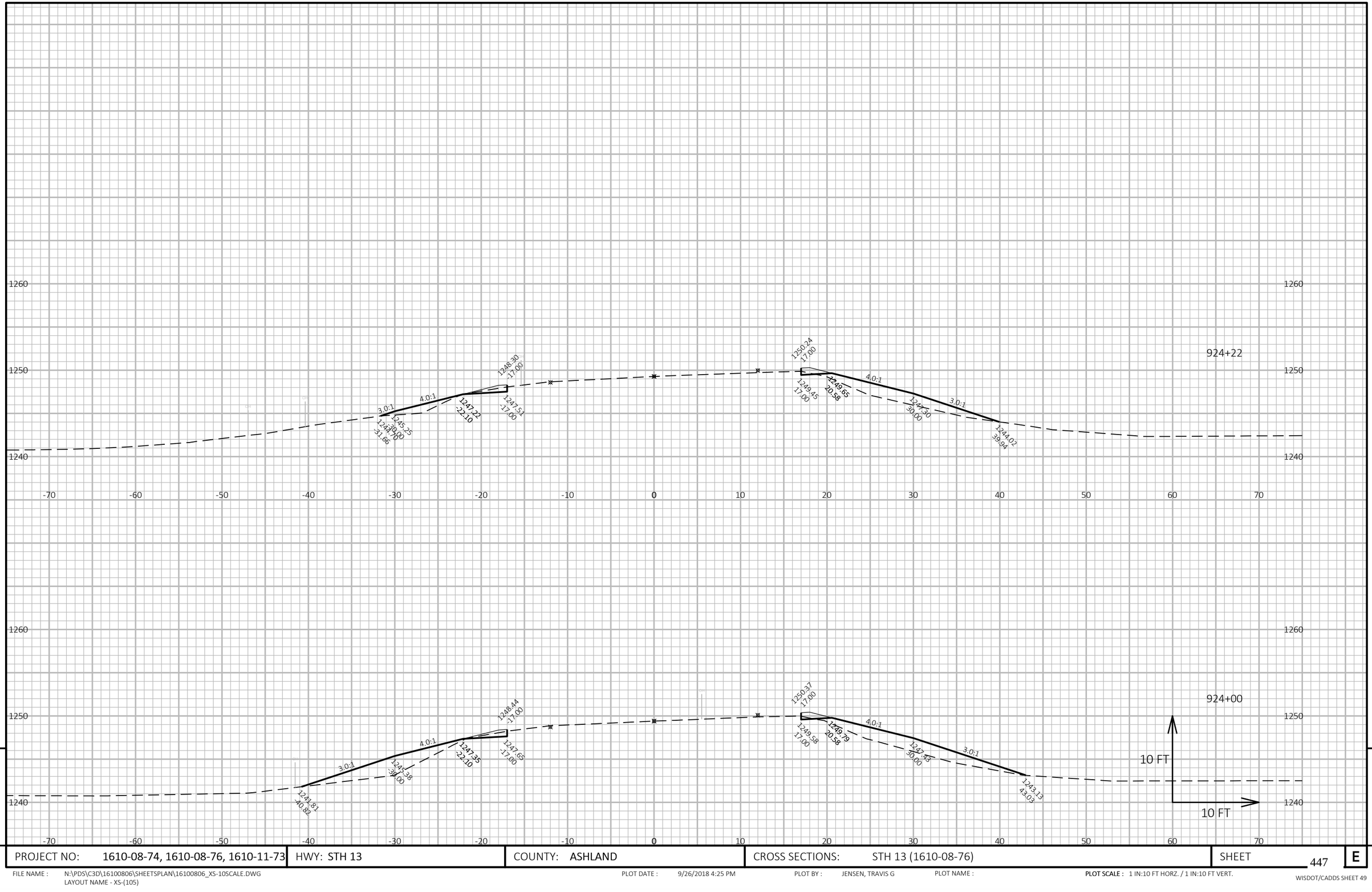
PLOT DATE : 9/26/2018 4:24 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1610-08-74, 1610-08-76, 1610-11-73	HWY: STH 13	COUNTY: ASHLAND	CROSS SECTIONS: STH 13 (1610-08-76)	SHEET 447	E

FILE NAME : N:\PDS\C3D\16100806\SHEETSPLAN\16100806_XS-10SCALE.DWG
LAYOUT NAME - XS-(105)

PLOT DATE : 9/26/2018 4:25 PM

PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

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

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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