

PROJECT ID: 4085-33-71
WITH: N/A

COUNTY: BROWN

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 =



DESIGN DESIGNATION 4085-33-71

A.A.D.T.	2023	=	5100
A.A.D.T.	2043	=	5600
D.H.V.		=	611
D.D.		=	60/40
T.		=	9.6%
DESIGN SPEED		=	55 MPH
ESALS		=	1,400,000

CONVENTIONAL SYMBOLS

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

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
OVERHEAD UTILITY	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

HILBERT - GREEN BAY

SOUTH COUNTY LINE - DEUSTER STREET

STH 32

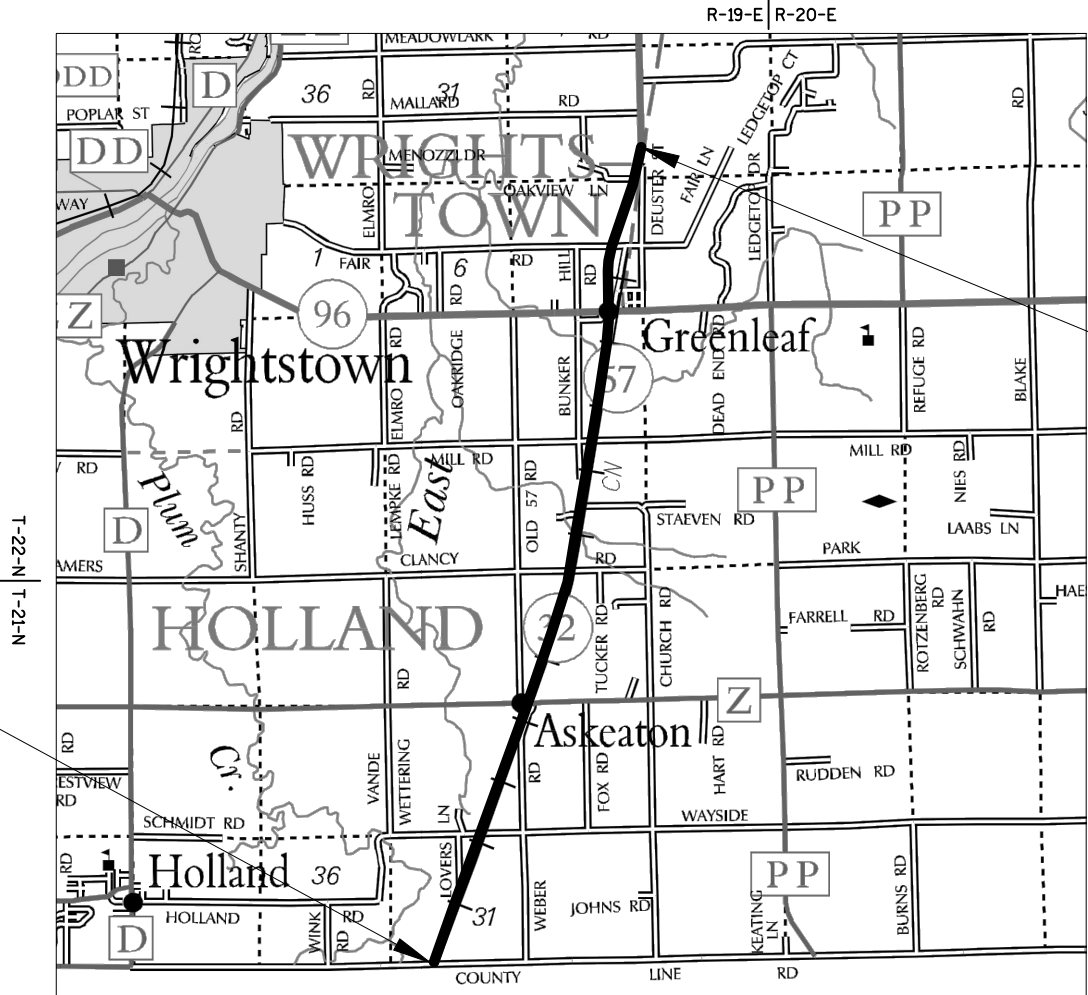
BROWN COUNTY

STATE PROJECT NUMBER
4085-33-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4085-33-71		

TRANS 220
PROJECT PLAN
FOR
DESIGN OF UTILITY FACILITY
ALTERATIONS OR RELOCATIONS

Date: 03/18/2019



END PROJECT
STA 422+21.77

BEGIN PROJECT
STA 61+79.34
X = 70603.0437
Y = 467006.8347

LAYOUT
SCALE 0 1.5 MILE
TOTAL NET LENGTH OF CENTERLINE = 6.826 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, BROWN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NATIONAL AMERICAN VERTICAL DATUM OF 2012 (NAVD88).

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	WISDOT NE REGION
Designer	K. LORENZ
Project Manager	A. FULCER
Regional Examiner	
Regional Supervisor	D. SEGERSTROM
APPROVED FOR THE DEPARTMENT	
DATE:	(Signature)

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GENERAL NOTES

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

UTILITIES

COMMUNICATIONS

AT&T WISCONSIN
JOSEPH KASSAB
205 S JEFFERSON ST
GREEN BAY, WI 54301
PHONE: 920-735-3206
EMAIL: JK572K@ATT.NET

CENTURYLINK
KEVIN ZICKERT
224 INDUSTRIAL DR
NORTH PRAIRIE, WI 53153
PHONE: 262-392-5200
EMAIL: KEVIN.ZICKERT@CENTURYLINK.COM

TDS TELECOM
STEVE JAKUBIEC
10 COLLEGE AVENUE
APPLETON, WI 54911
PHONE: 920-882-4166
EMAIL: STEVE.JAKUBIEC@TDSTELECOM.COM

CHARTER COMMUNICATIONS
VINCENT ALBIN
3520 E DESTINATION DRIVE
APPLETON, WI 54915
PHONE: 920-831-9249
EMAIL: VINCE.ALBIN@CHARTER.COM

ELECTRICITY

ATC MANAGEMENT, INC.
MIKE OLSEN
801 O'KEEFE ROAD
P.O. BOX 6113
PHONE: 920-338-6582
EMAIL: MOLSEN@ATCLLC.COM

WISCONSIN PUBLIC SERVICE CORP.
RANDY STEIER
2850 S ASHLAND AVENUE
GREEN BAY, WI 54304
PHONE: 920-617-5167

GAS/PETROLEUM

WISCONSIN PUBLIC SERVICE CORP.
DAVE RETZLAFF
2850 S ASHLAND AVENUE
GREEN BAY, WI 54307
PHONE: 920-617-5237
EMAIL: DPRETZLAFF@WISCONSINPUBLICSERVICE.COM

SEWER/WATER

WRIGHTSTOWN SANITARY DISTRICT #1
TODD WEYENBERG
1250 CENTENNIAL CENTRE BLVD
HOBART, WI 54155
PHONE: 920-662-9641
EMAIL: TWEYENBERG@RELEEINC.COM

DNR AREA LIASION

JIM DOPERALSKI
DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION
2984 SHAWANO AVE
GREEN BAY, WI 54313
920-412-0165
JAMES.DOPERALSKI@WISCONSIN.GOV

COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

CONTACT: CORMAC MCINNIS
NORTHEAST REGION SURVEY COORDINATOR
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-492-5638
CORMAC.MCINNIS@DOT.WI.GOV

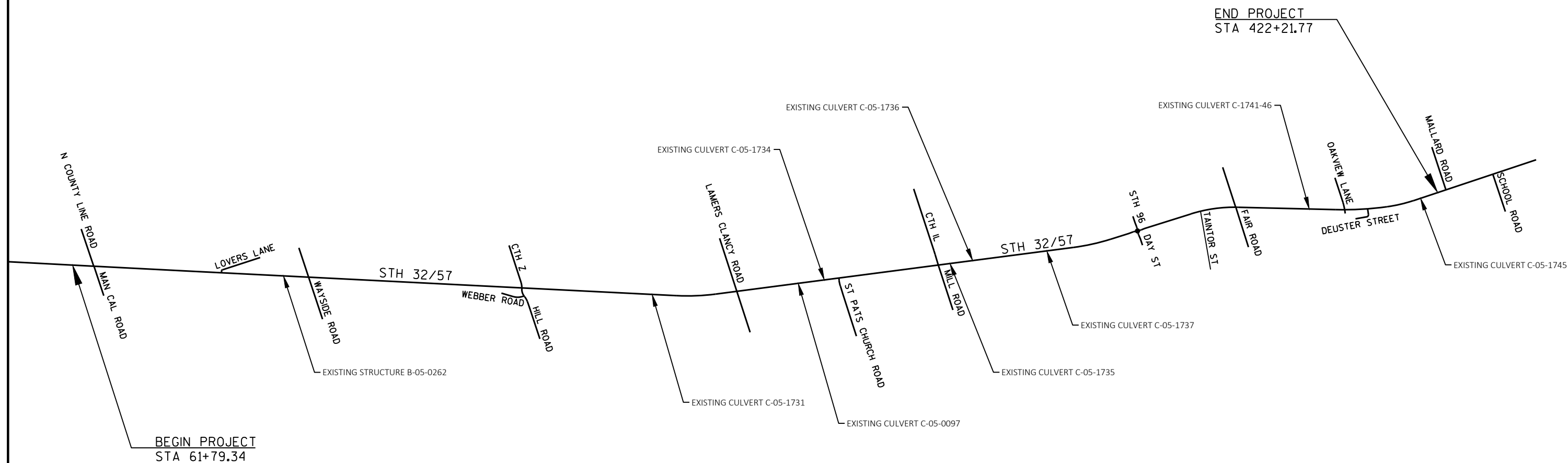
WISDOT CONTACT PERSON

CONTACT: ANDREW FULCER, P.E.
NORTHEAST REGION PROJECT MANAGER
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-362-6162
ANDREW.FULCER@DOT.WI.GOV

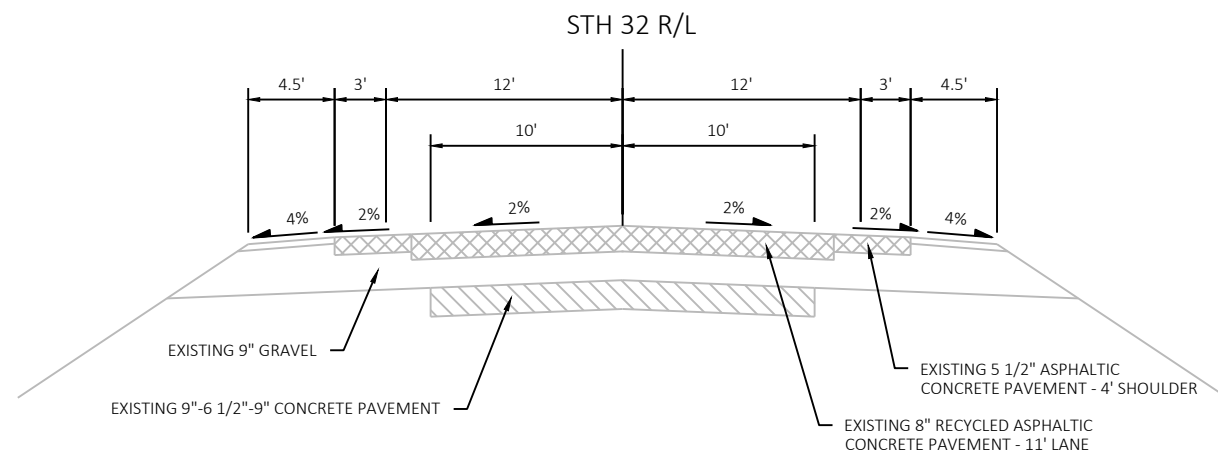
DIGGERSHOTLINE

Dial 811 or (800)242-8511

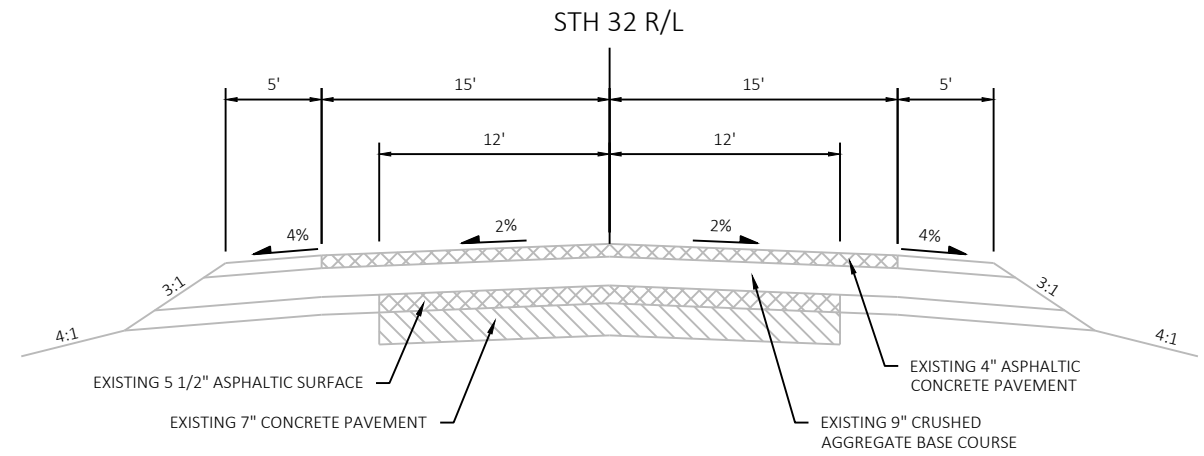
www.DiggersHotline.com



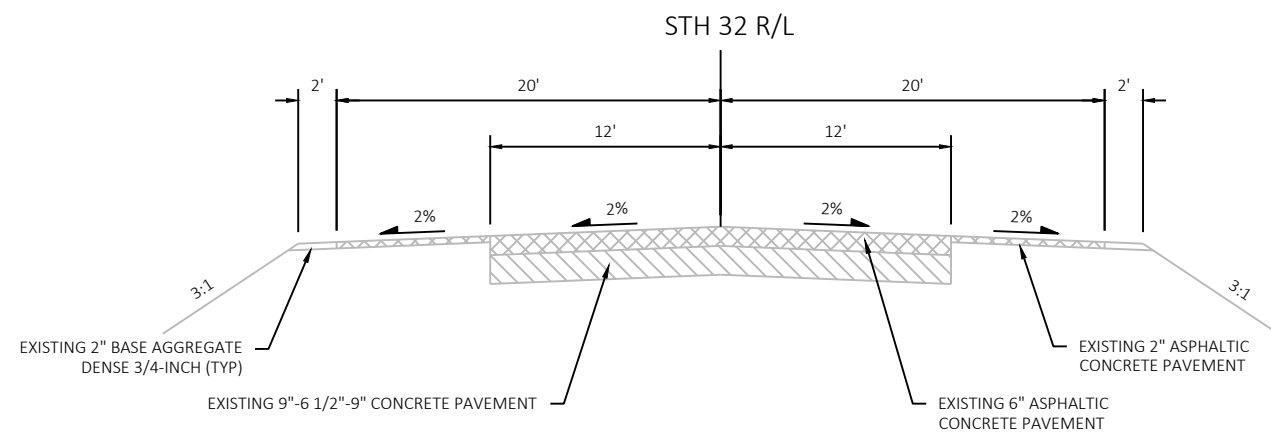
PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PROJECT OVERVIEW	SHEET	E
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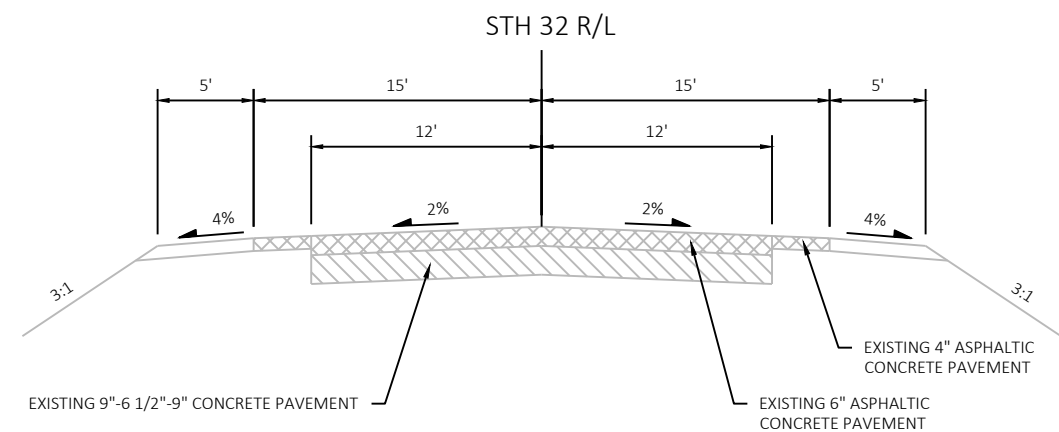
EXISTING TYPICAL CROSS SECTION STH 32
STA 61+79 TO STA 167+18



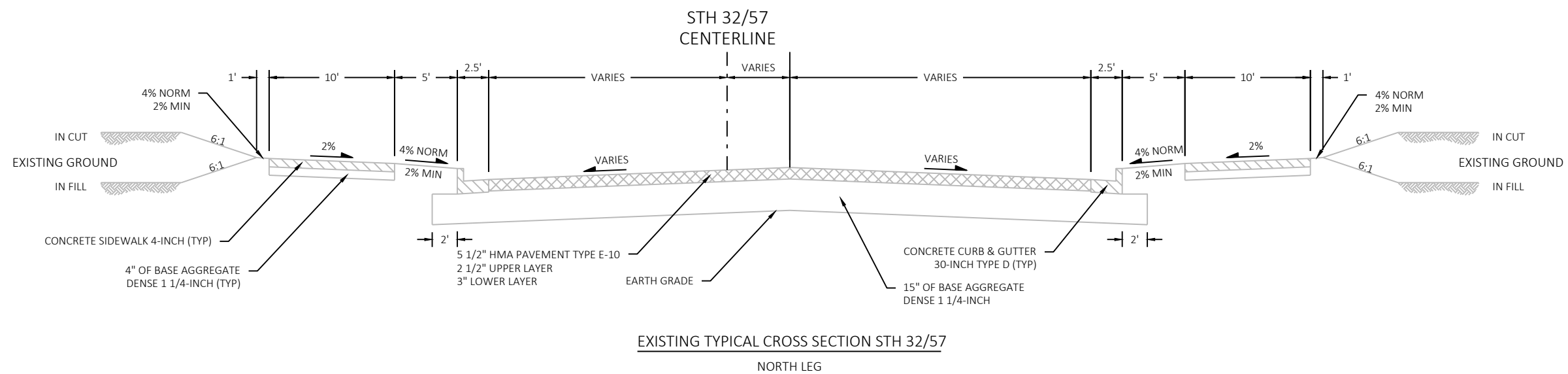
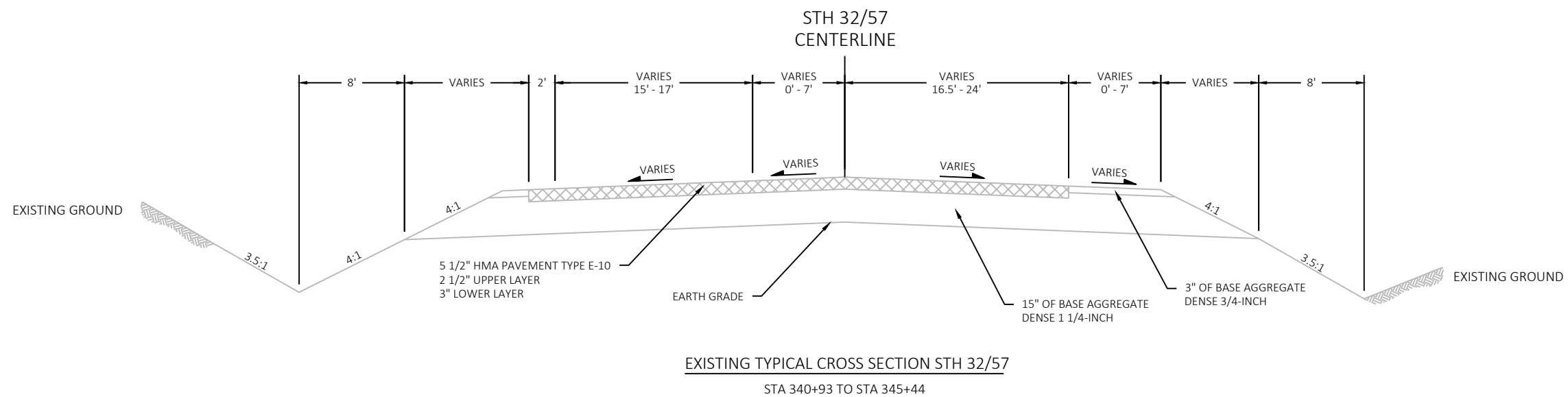
EXISTING TYPICAL CROSS SECTION STH 32
STA 167+18 TO STA 340+93

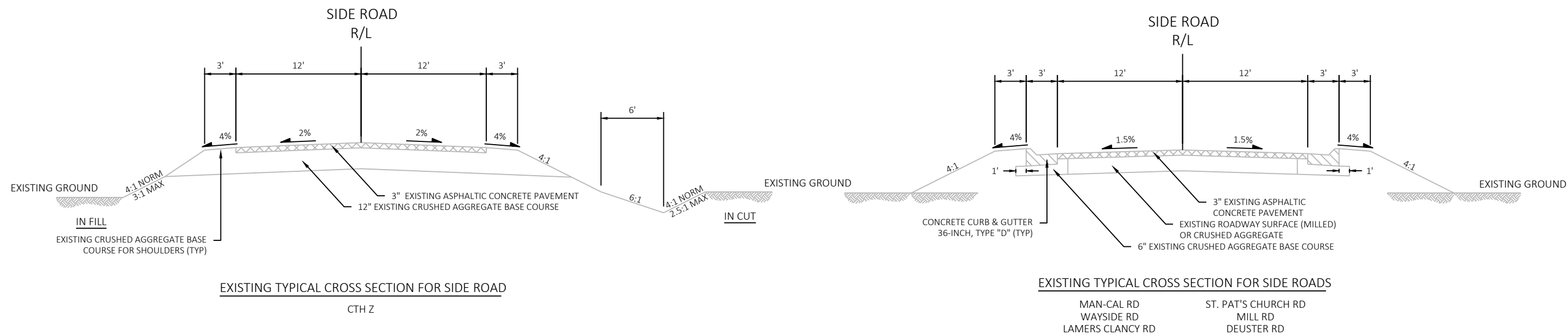
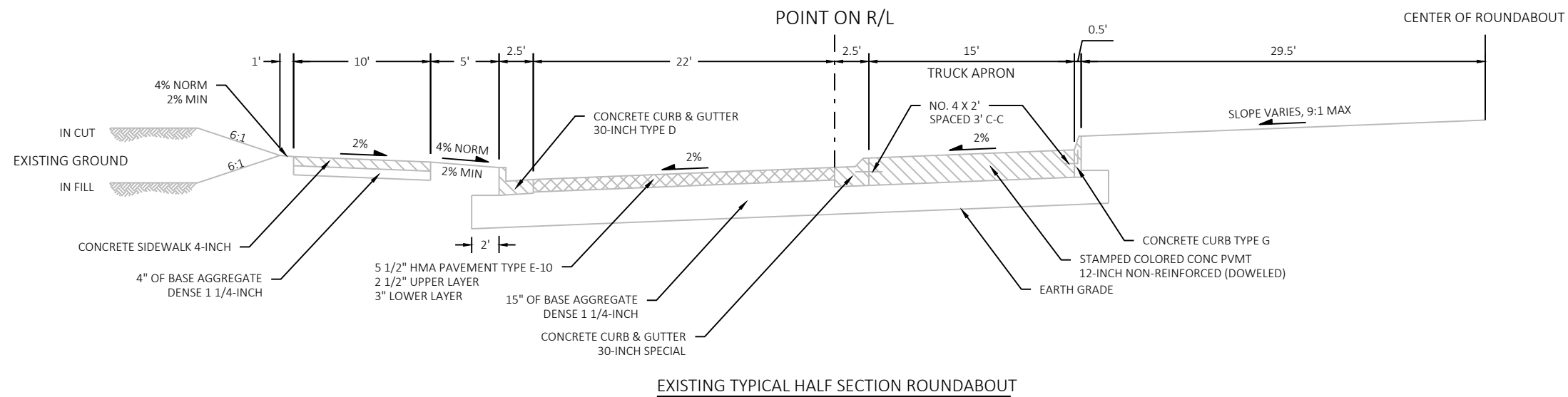


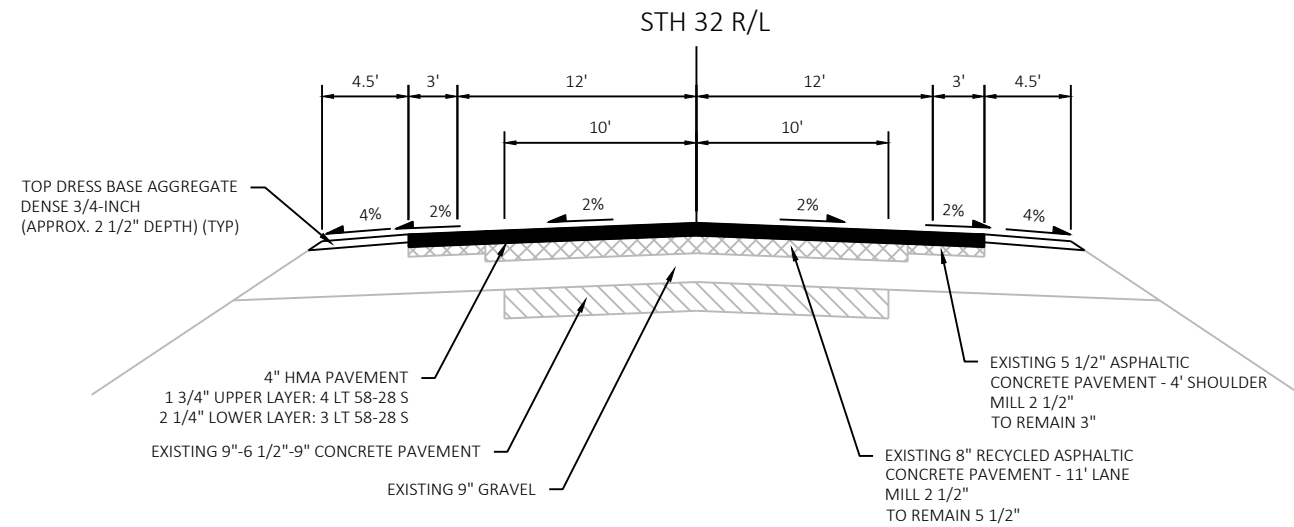
EXISTING TYPICAL CROSS SECTION STH 32
STA 345+44 TO STA 369+98



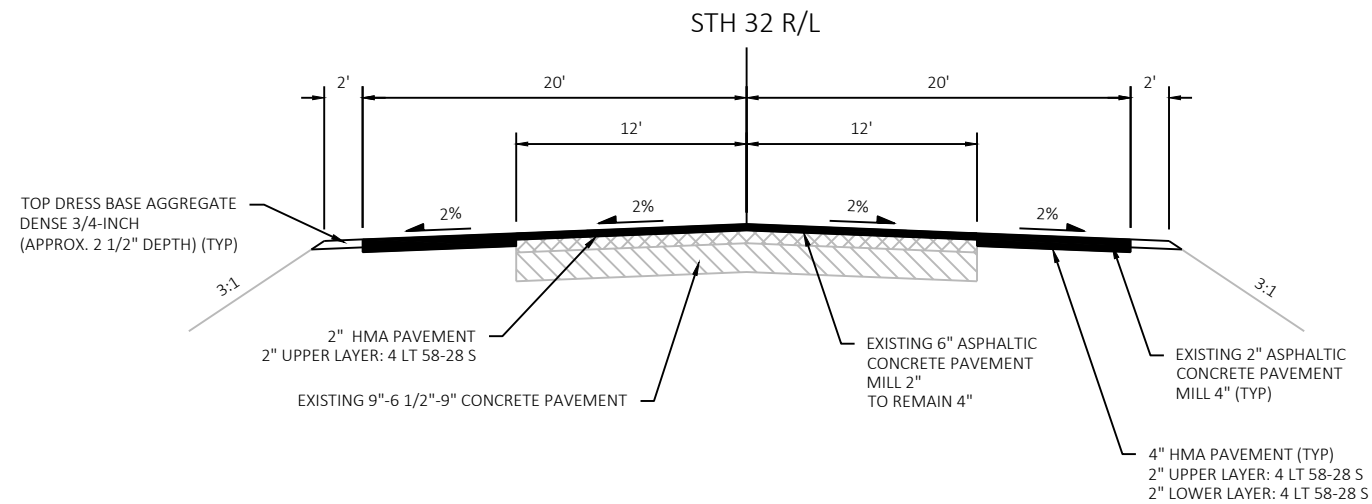
EXISTING TYPICAL CROSS SECTION STH 32
STA 369+98 TO STA 417+90



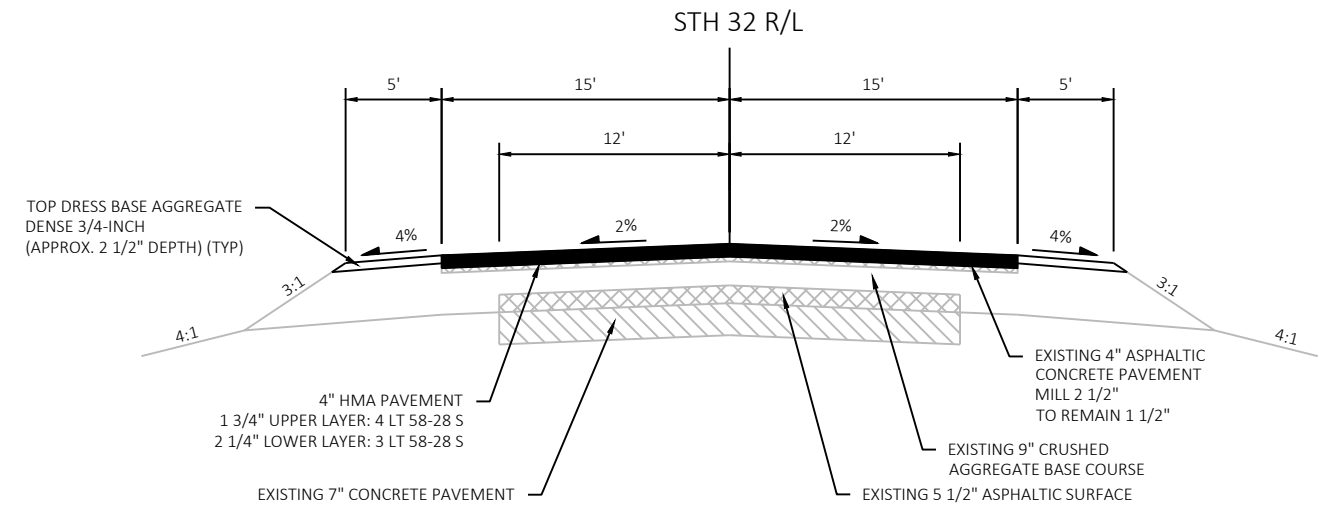




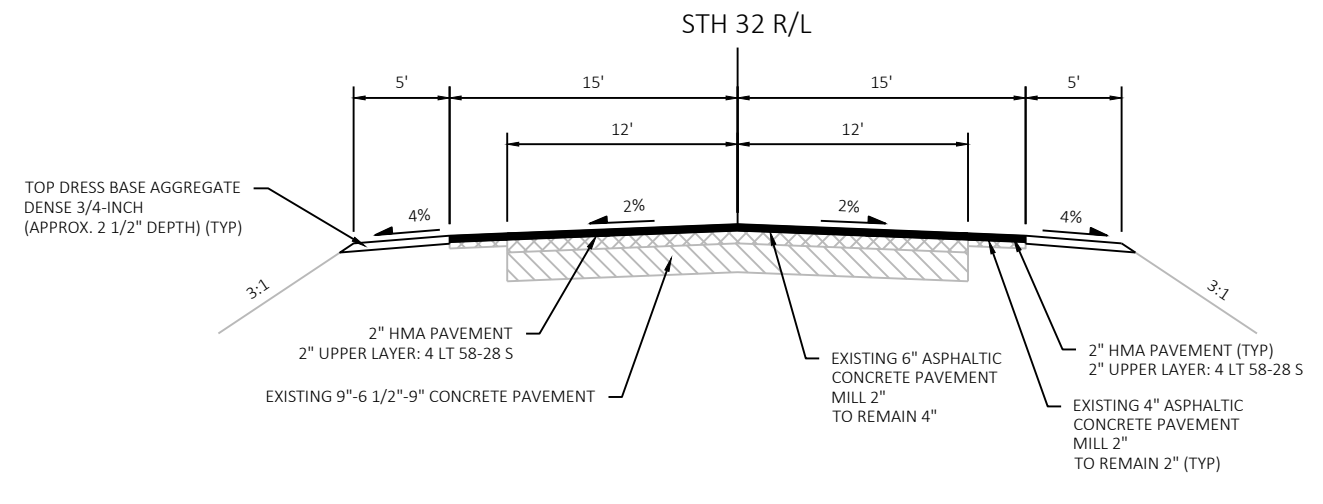
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STA 61+79 TO STA 167+18



FINISHED TYPICAL CROSS SECTION STH 32
STA 345+44 TO STA 369+98



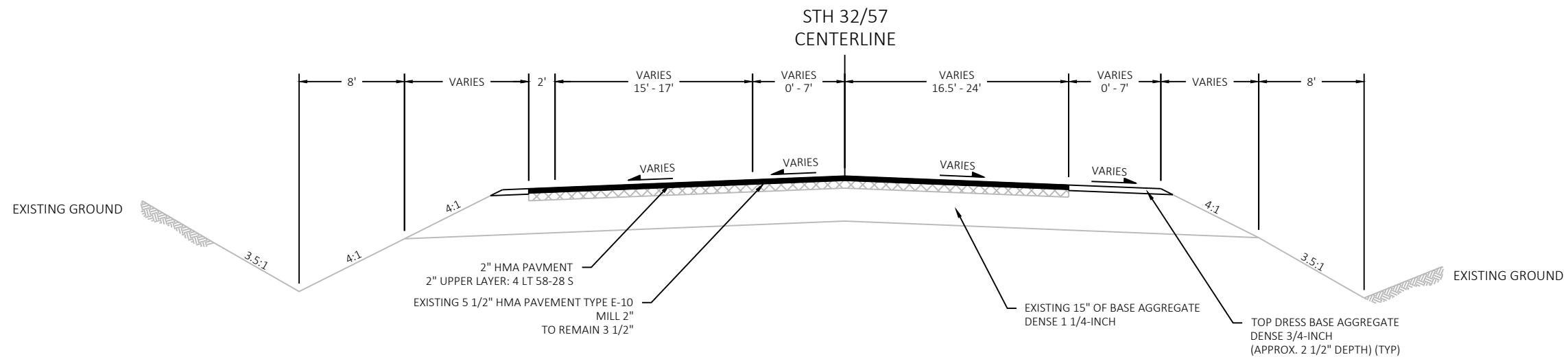
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STA 167+18 TO STA 340+93



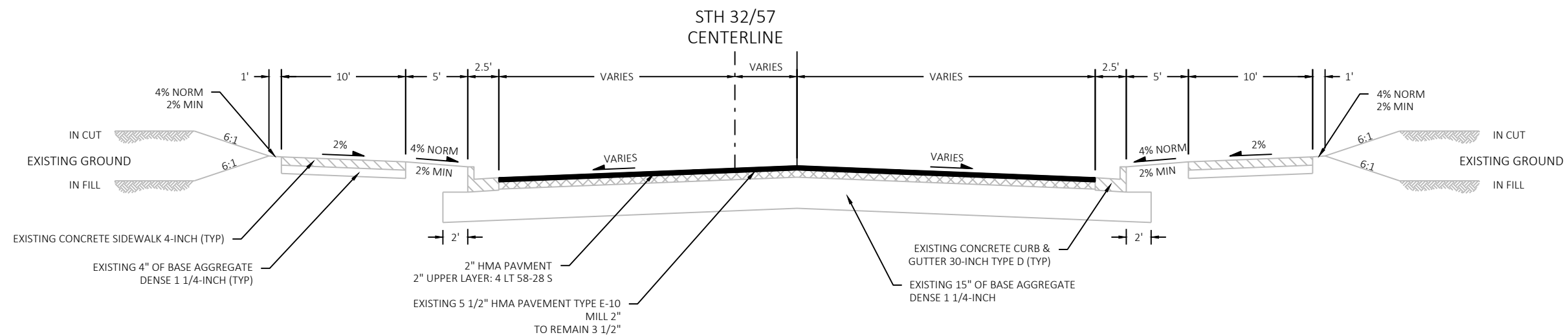
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STA 369+98 TO STA 417+90

2

2

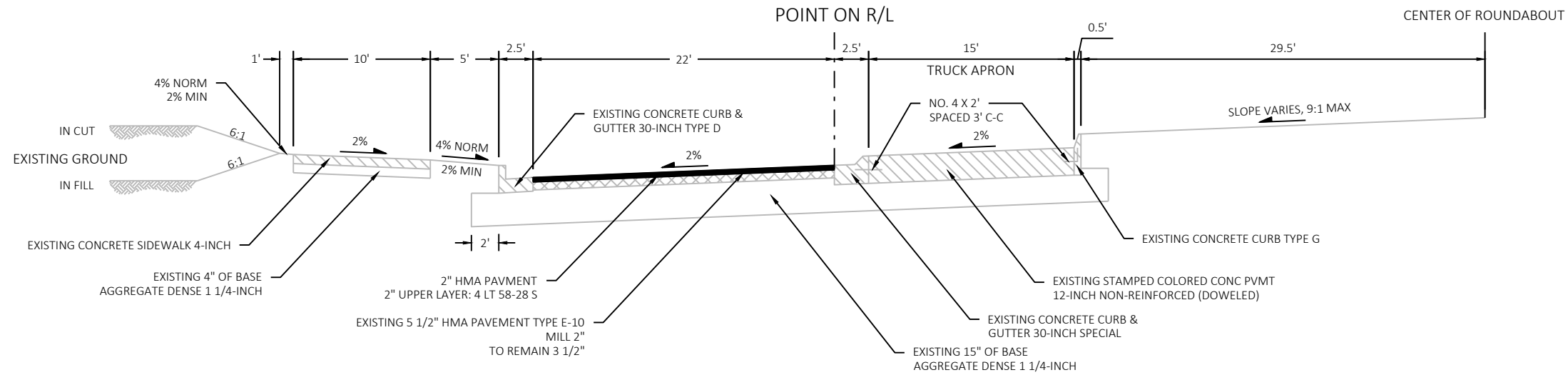


FINISHED TYPICAL CROSS SECTION STH 32/57
STA 340+93 TO STA 345+44

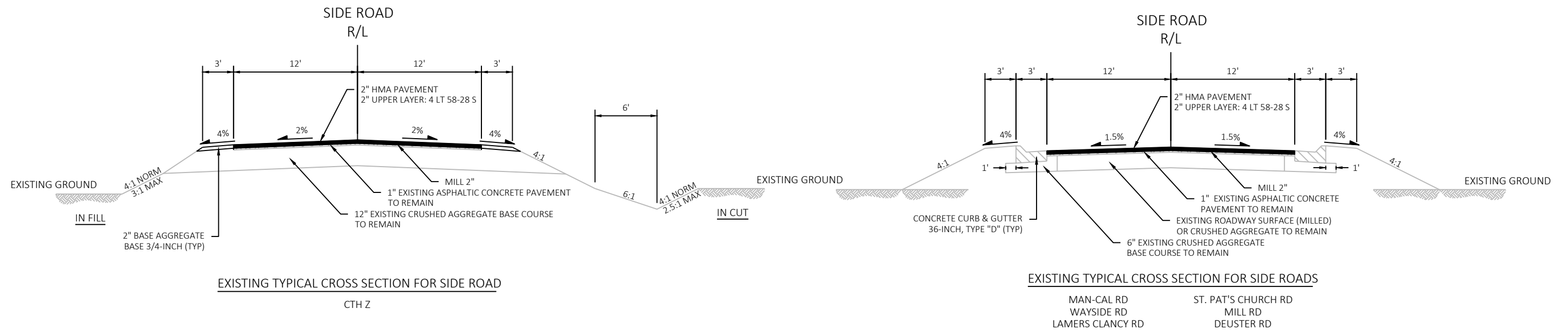


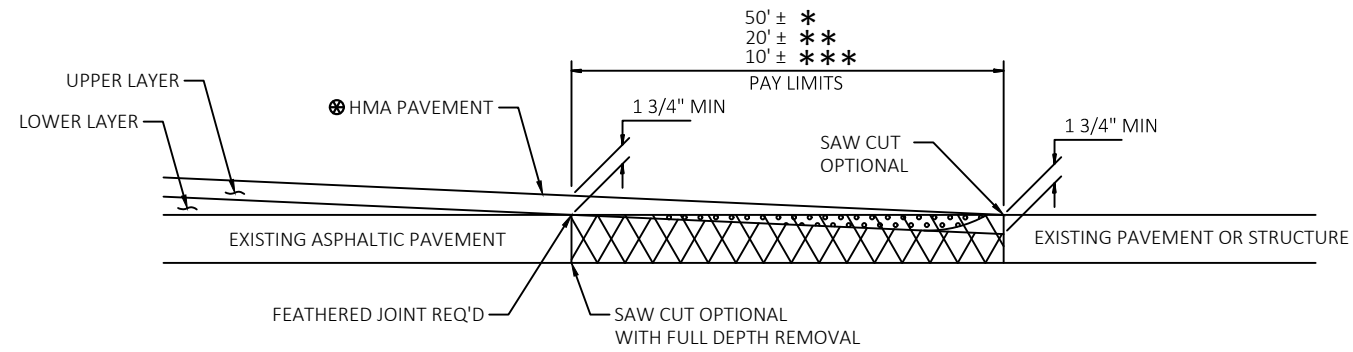
FINISHED TYPICAL CROSS SECTION STH 32/57

NORTH LEG



FINISHED TYPICAL HALF SECTION ROUNDABOUT



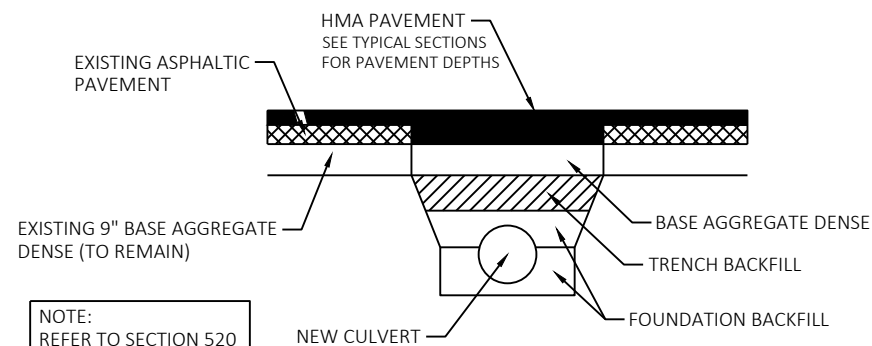


SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

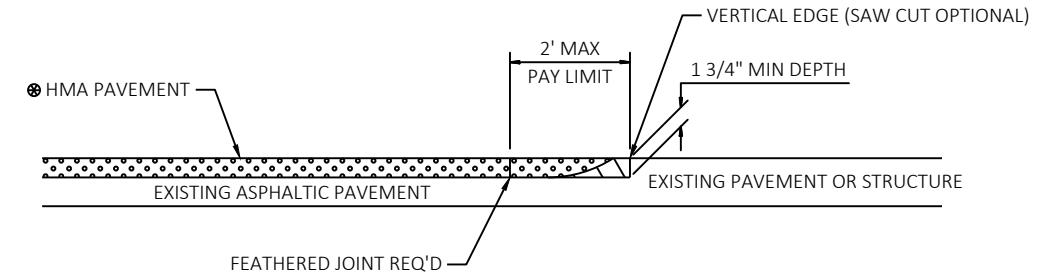
- REMOVING ASPHALTIC SURFACE, BUTT JOINTS (FULL DEPTH REMOVAL OPTIONAL)
- ASPHALTIC WEDGING (FULL DEPTH REMOVAL OPTION)
- REMOVING ASPHALTIC SURFACE, BUTT JOINTS (MILLING OPTION)

BUTT JOINT DETAIL FOR NON MILLED ASPHALTIC PAVEMENTS (PROFILE CHANGE)

* MAINLINE
** SIDEROADS
*** PRIVATE ENTRANCES



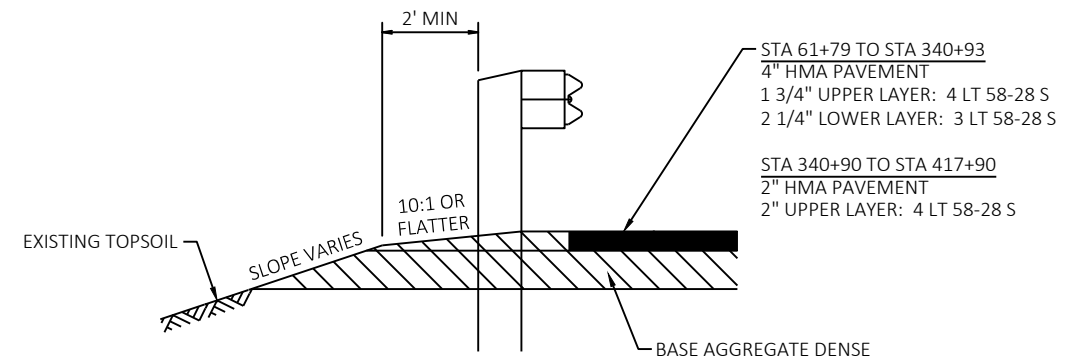
PAVEMENT AT CULVERT REPLACEMENTS



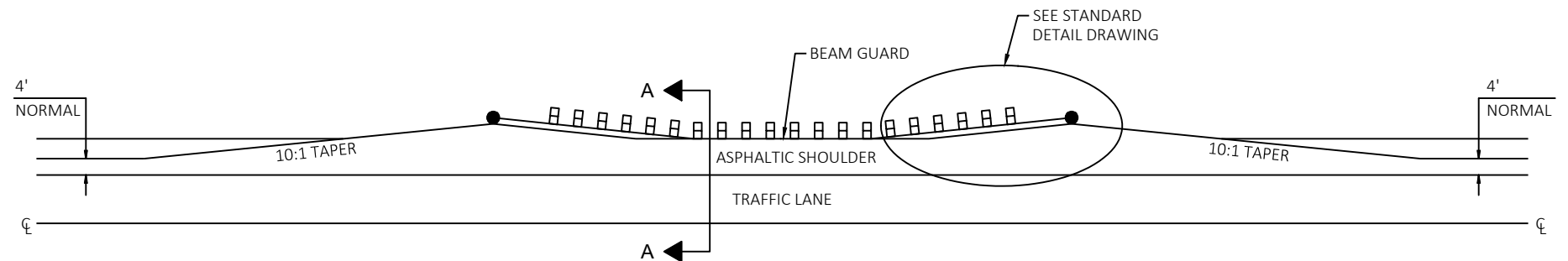
SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

- REMOVING ASPHALTIC SURFACE, MILLING
- REMOVE ASPHALTIC SURFACE WEDGE AT BUTT JOINT TO CREATE VERTICAL EDGE

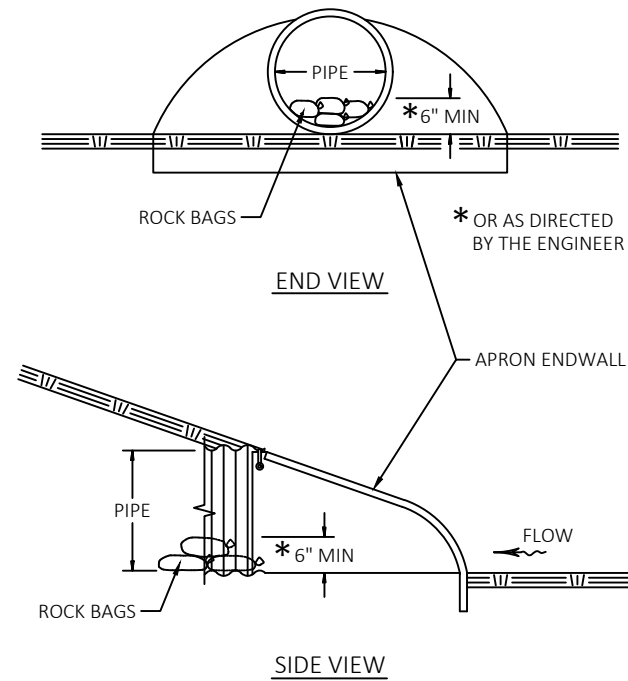
BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS (NO PROFILE CHANGE)



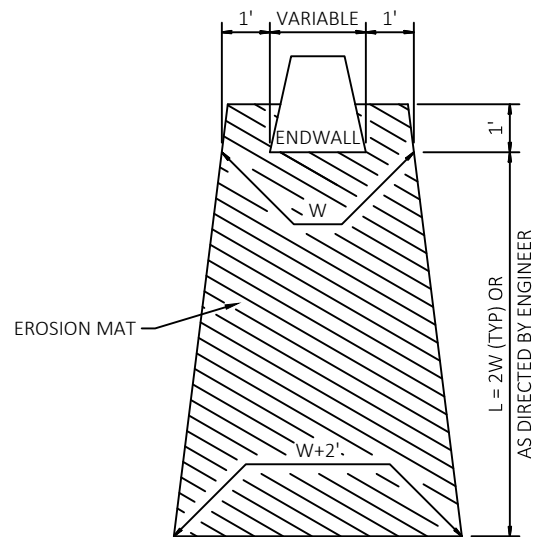
SECTION A-A



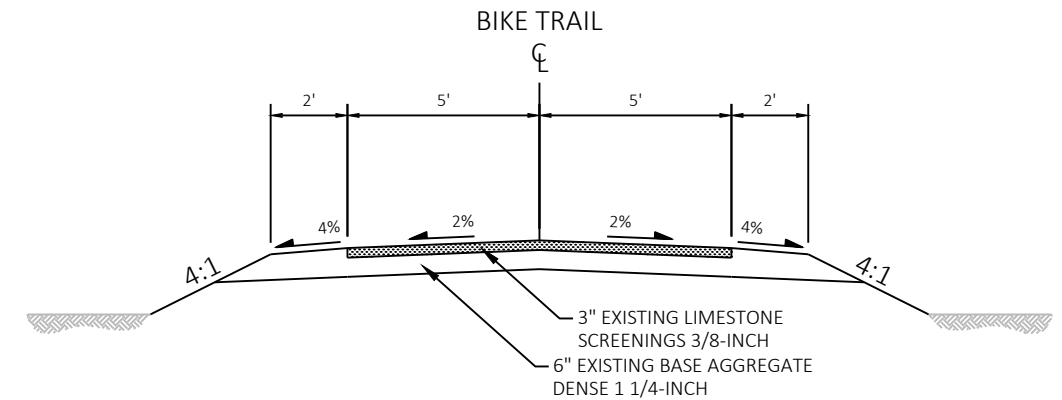
DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD



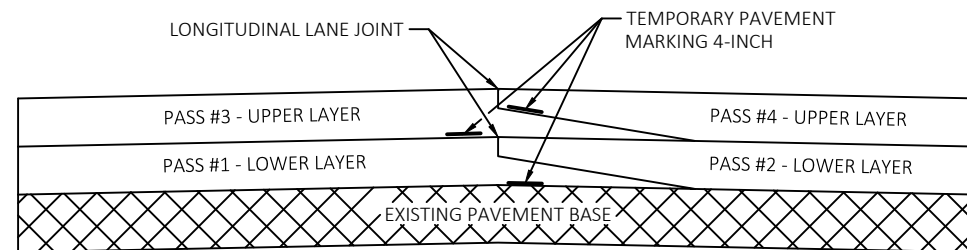
CULVERT PIPE CHECKS



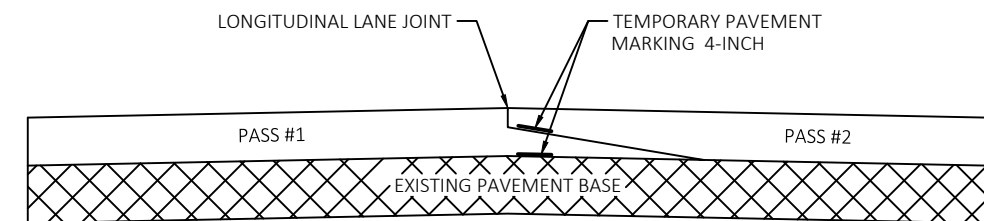
EROSION MAT TREATMENT AT CULVERTS



EXISTING TYPICAL SECTION FOR BIKE TRAIL

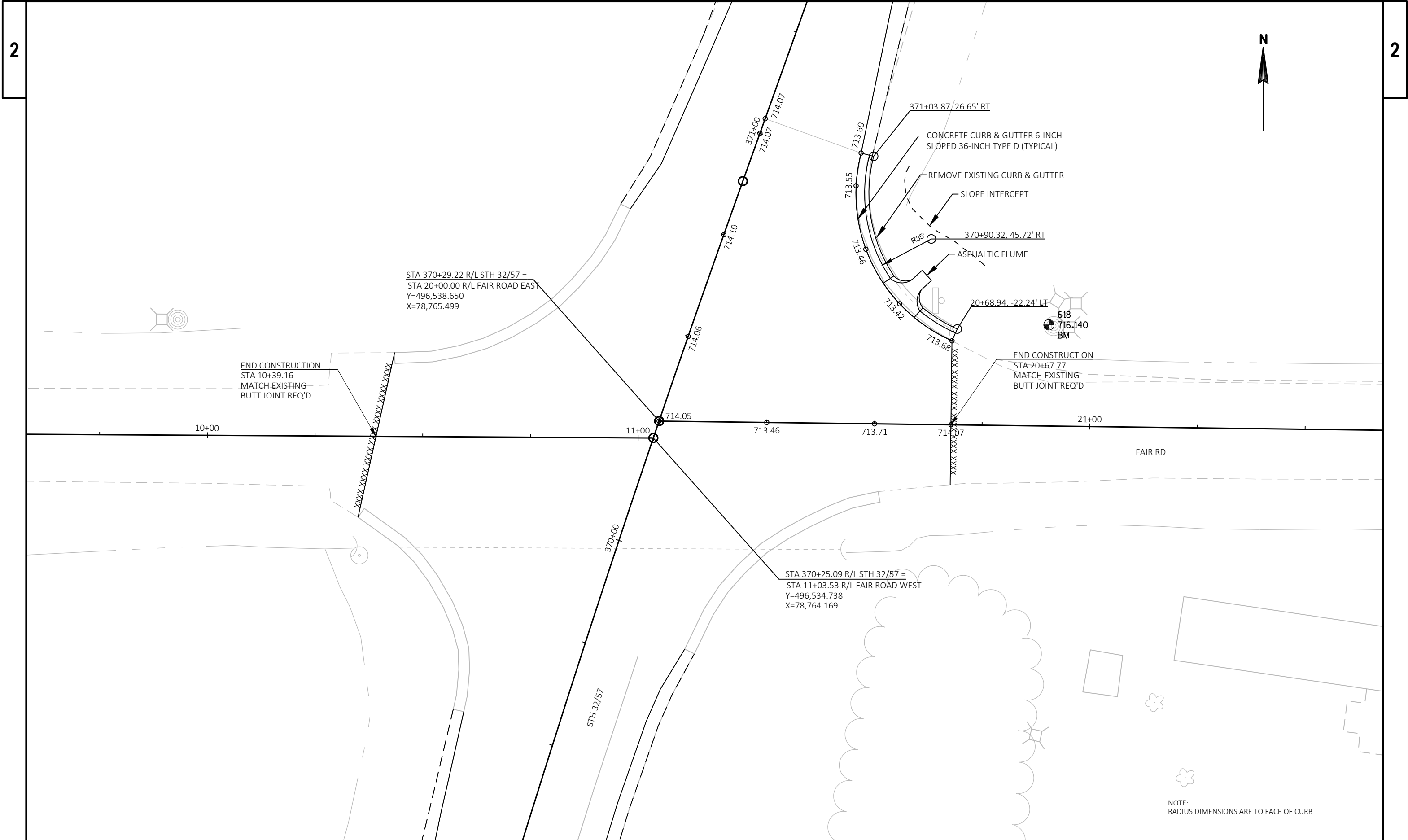


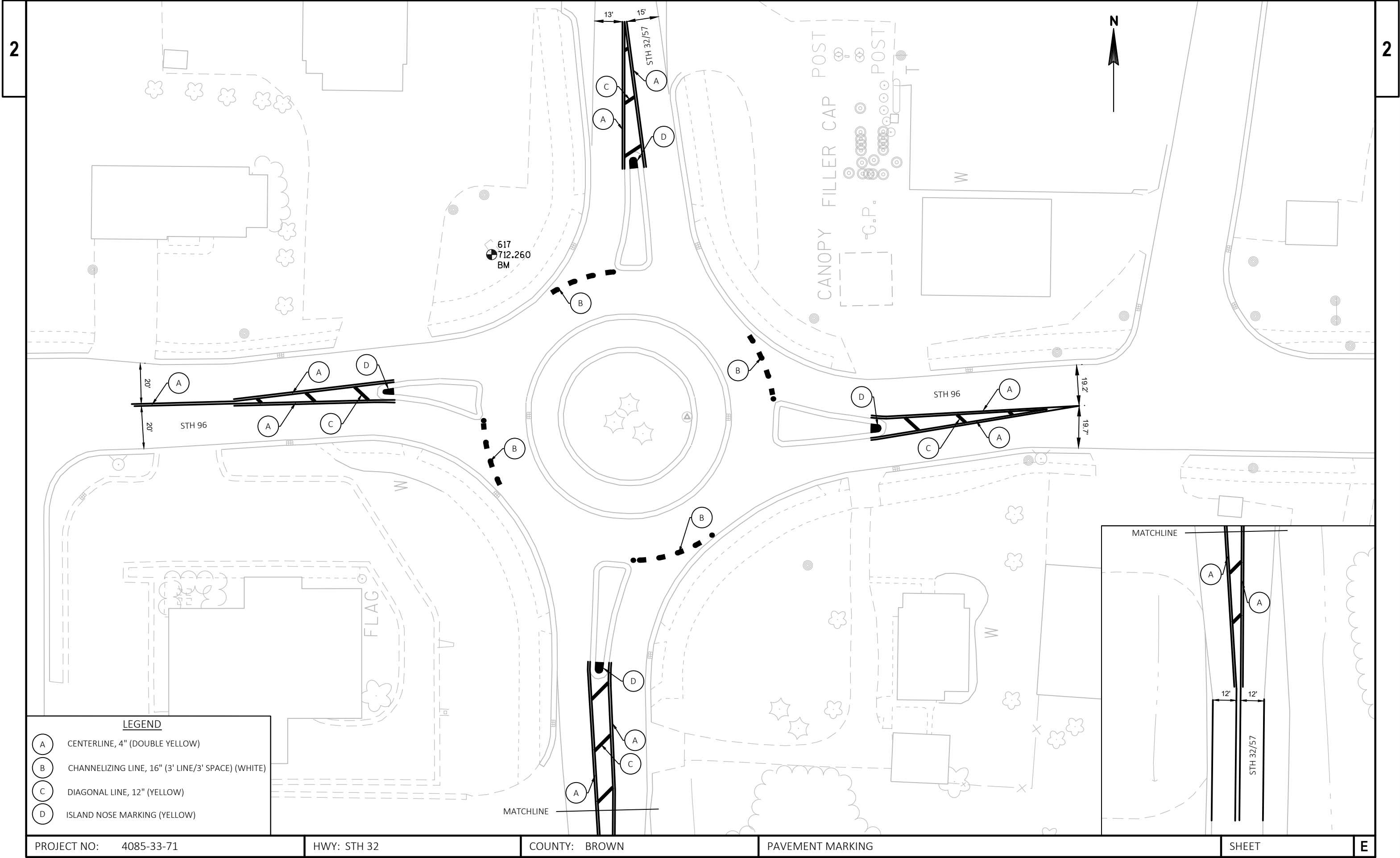
PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN HMA PAVEMENTS



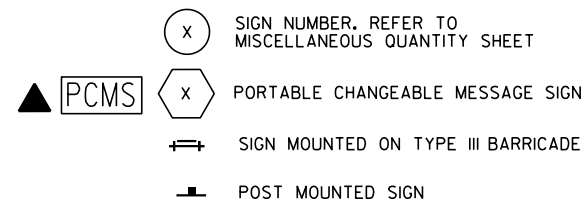
PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN HMA PAVEMENTS











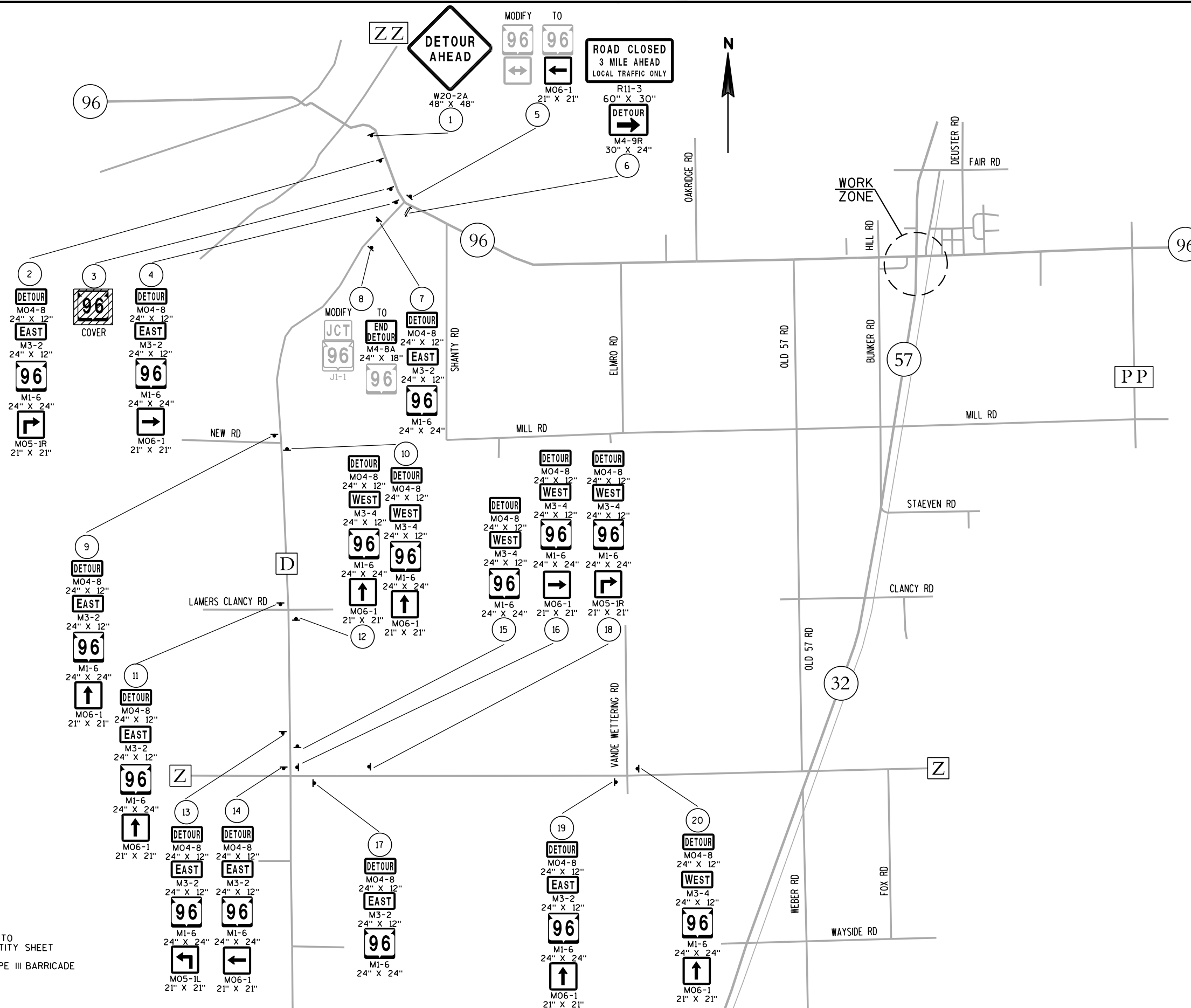
SHEET 2 OF 3

PLAN SHEET PRODUCED
BY WisDOT-NE REGION



SHEET 3 OF 3

PLAN SHEET PRODUCED
BY WisDOT-NE REGION



SHEET 1 OF 2

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 4085-33-71

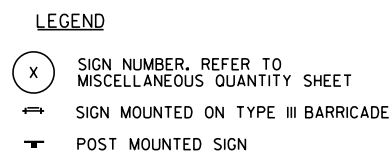
HWY: STH 32/57

COUNTY: BROWN

DETOUR SIGNING DETAIL

SHEET

E



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

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 5 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
1	200' E OF MICHIGAN ST ON STH 32/57	WO 20-2A	48"x48"	1	5	5						
2	ACROSS FROM SIGN # 1 (MEDIAN SIDE)	WO 20-2A	48"x48"	1	5	5						
3	MODIFY J 3-2 (S-32-TILT RT, S-57-TILT RT	MO 4-8	24"x12"	2	5	10						
	"	M 3-3	EXISTING									
	"	M 50-2	EXISTING									32/57
	"	MO 6-1	21"x21"	2	5	10						AHEAD
4	RT OF J 1-1 (JCT PP) (MEDIAN SIDE)	MO 4-8	24"x12"	1	5	5						
	"	M 3-3	24"x12"	1	5	5						
	"	M 1-6B	24"x24"	1	5	5						32
	"	M 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						AHEAD
5A	D1-3 (TILT LT-REEDSVILLE; CHILTON/MILWAUKEE-TILT RT										1	CHILTON/MILWAUKEE-TILT RT
5B	MODIFY J 1-1 (JCT 32, JCT 57)	MO 4-8A	24"x18"	2	5	10						
	"	MO 50-2	EXISTING									32/57
6	RT OF J 13-1 (S-PP-AH)	MO 4-8	24"x12"	1	5	5						
	"	M 3-3	24"x12"	1	5	5						
	"	M 1-6B	24"x24"	1	5	5						32
	"	M 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						AHEAD
7	MODIFY J 13-1 (X-TILT RT)	M 1-5A	EXISTING									
	"	MO 6-1	21"x21"	1	5	5						AHEAD
8	MODIFY J 3-2 (S-32-TILT RT, S-57-TILT RT	MO 4-8	24"x12"	2	5	10						
	"	M 3-3	EXISTING									
	"	M 50-2	EXISTING									32/57
	"	MO 6-1	21"x21"	2	5	10						AHEAD
9A	J4-2 (S-32, S-57)										1	S-32, S-57
9B	@ 32/57 SPLIT (RIGHT SHOULDER)	R 11-3	60"x30"	1	5	5	5	10				6 MILES
10	200' N OF CTY X INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	"	M 3-1	24"x12"	1	5	5						
	"	M 1-6B	24"x24"	1	5	5						32
	"	M 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	2	5	10						AHEAD
11	200' S OF CTY X INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	"	M 3-3	24"x12"	1	5	5						
	"	M 1-6B	24"x24"	1	5	5						32
	"	M 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						AHEAD
12	200' N OF OLD MARTIN RD INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	"	M 3-1	24"x12"	1	5	5						
	"	M 1-6B	24"x24"	1	5	5						32
	"	M 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						AHEAD
13	200' S OF OLD MARTIN RD INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	"	M 3-3	24"x12"	1	5	5						
	"	M 1-6B	24"x24"	1	5	5						32
	"	M 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						AHEAD
14	200' N OF CTY W INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	"	M 3-1	24"x12"	1	5	5						
	"	M 1-6B	24"x24"	1	5	5						32
	"	M 1-6	24"x24"	1	5	5						57
	"	MO 6-1	21"x21"	1	5	5						AHEAD

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

PAGE SUBTOTALS

50

250

5

10

0

2

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 5 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
15	200' S OF CTY W INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD
16	200' N OF LASEE RD INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD
17	200' S OF LASEE RD INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD
18	200' N OF SCHOOL RD INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD
19	200' S OF SCHOOL RD INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD
20	RT OF J 1-1 (JCT 96) ON CTY PP SB	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 5-1R	21"x21"	1	5	5						
21	200' N OF HWY 96 INTERSECTION ON CTH PP	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
22	200' N OF J4-2 (HWY 96-LT & RT, CTY PP-RT)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						RIGHT
23	ABOVE J 4-2 (W-96, S-PP)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57

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PLAN SHEET PRODUCED
BY WisDOT - NE REGION

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 5 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
24	ON BACK OF J 13-1 (CTH PP AH & RT)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						LEFT
25	RT OF J 13-1 (CTY PP-RT) ON HWY 96 EB	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						LEFT
26	500' W OF SIGN # 25 ON HWY 96 EB	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 5-1L	21"x21"	1	5	5						
27	250' E OF D1-1 (LT-BRILLION)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 5-1L	21"x21"	1	5	5						
28	RT OF J 3-1 (PP-LT)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						LEFT
29	ON BACK OF J 13-1 (CTH PP AH & RT) STH 96 WB	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						LEFT
	GAP IN NUMBERING (30-33)											
34	RT OF J3-2 (96-LT & RT; PP-RT)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						RIGHT
35	250' S OF STH 96 INTERSECTION ON CTY PP	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD

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PLAN SHEET PRODUCED
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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 5 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
36	200' N OF J1-1 (JCT 96)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 5-1R	21"x21"	1	5	5						
37	200' N OF PARK RD INTERSECTION ON CTY PP	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD
38	200' S OF PARK RD INTERSECTION ON CTY PP	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD
39	RT OF J1-1 (JCT Z)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 5-1R	21"x21"	1	5	5						
40	200' N OF CTY Z INTERSECTION ON CTY PP	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD
41	RT OF J3-2 (Z-LT & RT; PP-AH)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						RIGHT
42	ON BACK J3-2 (CTY PP LT & RT; CTH Z-AH) CTY Z (WB)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						LEFT
43	RT OF J3-2 (CTY PP LT & RT; CTH Z-AH) CTY Z (EB)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						LEFT
44	200' W OF CTY PP INTERSECTION ON CTH Z (WB)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-3	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD

PLAN SHEET PRODUCED

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BY WisDOT - NE REGION

PROJECT NUMBER: 4085-33-71

HWY: STH 32/57

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET

E

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 5 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
45	250' W OF SIGN # 42	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 5-1L	21"x21"	1	5	5						AHEAD
46	MODIFY J1-1 (JCT 32/57)	MO 4-8A	24"x18"	2	5	10						
	" "	M 50-2	EXISTING									
47	MODIFY J3-2 (32-LT & RT; 57-LT & RT)	M 50-2	EXISTING									
	" "	MO 6-1	21"x21"	2	5	10						LEFT
48	J 4-2 (N-32; N-57)									1	1	NORTH 32, NORTH-57
49	250' E OF HWY 32/57 INTERSECTION ON CTH Z	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						AHEAD
50	NE QUAD OF HWY 32/57 & CTY Z INTERSECTION	R 11-3	60"x30"	1	5	5	5	10				3 MILES
51	RT OF J 13-1 (CTY Z - LT & RT)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 6-1	21"x21"	1	5	5						RIGHT
52	200' S OF D1-2 (LT-KAUKAUNA; ASKEATON-RT)	MO 4-8	24"x12"	1	5	5						
	" "	M 3-1	24"x12"	1	5	5						
	" "	M 1-6B	24"x24"	1	5	5						32
	" "	M 1-6	24"x24"	1	5	5						57
	" "	MO 5-1R	21"x21"	1	5	5						
53	2600' S OF SIGN # 51	WO20-2G	48"x48"	1	5	5						
54	5300' S OF SIGN # 51	WO 20-2F	48"x48"	1	5	5						
55	FIELD DETERMINED - HWY 32/57 SB	PCMS		1					7			
56	FIELD DETERMINED - HWY 32/57 NB	PCMS		1					7			

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STH 32/57 DETOUR TOTALS

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PLAN SHEET PRODUCED
BY WisDOT - NE REGION

PROJECT NUMBER: 4085-33-71

HWY: STH 32/57

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 4 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
1	STH 96, N. OF CTH D, PLACE 1/4 MILE N. OF CTH D INTERSECTION	W 20-2A	48"X48"	1	4	4						
2	STH 96, N. OF CTH D, PLACE 750' N. OF CTH D INTERSECTION	MO 4-8	24"X12"	1	4	4						
	"	M 3-2	24"X12"	1	4	4						
	"	M 1-6	24"X24"	1	4	4						96
	"	MO 5-1R	21"X21"	1	4	4						
3	STH 96, N. OF CTH D, COVER EXISTING SIGN AS SHOWN									1	1	COVER ENTIRE SIGN
4	STH 96, N. OF CTH D, PLACE 150' N. OF CTH D INTERSECTION	MO 4-8	24"X12"	1	4	4						
	"	M 3-2	24"X12"	1	4	4						
	"	M 1-6	24"X24"	1	4	4						96
	"	MO 6-1	21"X21"	1	4	4						RIGHT
5	STH 96, AT CTH D, MODIFY EXISITNG J13-2 AS SHOWN	MO 6-1	21"X21"	1	4	4						LEFT
6	STH 96, AT CTH D, PLACE IN SE QUADRANT BEHIND BACK OF CURB	R 11-3	60"X30"	1	4	4	4	8				3 MILE AHEAD
	"	M 4-9R	30"X24"	1	4	4						
7	CTH D, S. OF STH 96, PLACE 100' S. OF STH 96 INTERSECTION	MO 4-8	24"X12"	1	4	4						
	"	M 3-2	24"X12"	1	4	4						
	"	M 1-6	24"X24"	1	4	4						96
8	CTH D, S. OF STH 96, MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"X18"	1	4	4						
9	CTH D, AT NEW RD, PLACE 100' N. OF NEW RD	MO 4-8	24"X12"	1	4	4						
	"	M 3-2	24"X12"	1	4	4						
	"	M 1-6	24"X24"	1	4	4						96
	"	MO 6-1	21"X21"	1	4	4						AHEAD
10	CTH D, AT NEW RD, PLACE 100' S. OF NEW RD	MO 4-8	24"X12"	1	4	4						
	"	M 3-4	24"X12"	1	4	4						
	"	M 1-6	24"X24"	1	4	4						96
	"	MO 6-1	21"X21"	1	4	4						AHEAD
11	CTH D, AT LAMERS CLANCY RD, PLACE 100' N. OF LAMERS CLANCY RD	MO 4-8	24"X12"	1	4	4						
	"	M 3-2	24"X12"	1	4	4						
	"	M 1-6	24"X24"	1	4	4						96
	"	MO 6-1	21"X21"	1	4	4						AHEAD
12	CTH D, AT LAMERS CLANCY RD, PLACE 100' S. OF LAMERS CLANCY RD	MO 4-8	24"X12"	1	4	4						
	"	M 3-4	24"X12"	1	4	4						
	"	M 1-6	24"X24"	1	4	4						96
	"	MO 6-1	21"X21"	1	4	4						AHEAD
13	CTH D, N. OF CTH Z, PLACE 750' N. OF CTH Z INTERSECTION	MO 4-8	24"X12"	1	4	4						
	"	M 3-2	24"X12"	1	4	4						
	"	M 1-6	24"X24"	1	4	4						96
	"	MO 5-1L	21"X21"	1	4	4						
14	CTH D, N. OF CTH Z, PLACE 100' N. OF CTH Z INTERSECTION	MO 4-8	24"X12"	1	4	4						
	"	M 3-2	24"X12"	1	4	4						
	"	M 1-6	24"X24"	1	4	4						96
	"	MO 6-1	21"X21"	1	4	4						LEFT
15	CTH D, N. OF CTH Z, PLACE 150' N. OF CTH Z INTERSECTION	MO 4-8	24"X12"	1	4	4						
	"	M 3-4	24"X12"	1	4	4						
	"	M 1-6	24"X24"	1	4	4						96

PLAN SHEET PRODUCED

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BY WisDOT - NE REGION

PROJECT NUMBER: 4085-33-71

HWY: STH 32/57

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET

E

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 4 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
16	CTH Z, AT CTH D, PLACE RIGHT OF EXISTING J13-2 SIGN	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						RIGHT
17	CTH Z, E. OF CTH D, PLACE 150' E. OF CTH D INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
18	CTH Z, E. OF CTH D, PLACE 750' E. OF CTH D INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 5-1R	21"x21"	1	4	4						
19	CTH Z, W. OF VANDE WETTERING RD, PLACE 100' W. OF VANDE WETTERING RD	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						AHEAD
20	CTH Z, E. OF VANDE WETTERING RD, PLACE 100' E. OF VANDE WETTERING RD	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						AHEAD
21	CTH Z, W. OF OLD 57 RD, PLACE 100' W. OF OLD 57 RD	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
22	CTH Z, AT STH 32/57, PLACE RIGHT OF EXISITNG J13-2 SIGN AT STH 32/57	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						AHEAD
23	STH 32/57, AT CTH Z, PLACE RIGHT OF EXISTING J13-1 SIGN	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						RIGHT
24	STH 32/57, AT CTH Z, PLACE LEFT OF EXISTING J13-1 SIGN	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						LEFT
25	STH 32/57, S. OF CTH Z, PLACE 750' S. OF CTH Z INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 5-1L	21"x21"	1	4	4						
26	STH 32/57, S. OF CTH Z, PLACE 750' S. OF CTH Z INTERSECTION, PLACE RIGHT OF SIGN #25	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 5-1R	21"x21"	1	4	4						
27	STH 32/57, S. OF CTH Z, PLACE 1/4 MILE S. OF CTH Z INTERSECTION	M 1-6	24"x24"	1	4	4						96
	"	W 20-2A	48"x48"	1	4	4						
28	CTH Z, AT STH 32/57, PLACE RIGHT OF EXISITNG J13-2 SIGN AT STH 32/57	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						AHEAD

PLAN SHEET PRODUCED

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BY WisDOT - NE REGION

PROJECT NUMBER: 4085-33-71

HWY: STH 32/57

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET

E

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 4 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
29	CTH Z, E. OF STH 32/57, PLACE 150' E. OF STH 32/57 INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
30	CTH Z, E. OF CHURCH RD, PLACE 100' E. OF CHURCH RD INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						AHEAD
31	CTH Z, W. OF CHURCH RD, PLACE 100' W. OF CHURCH RD INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						AHEAD
32	CTH Z, W. OF CTH PP, PLACE 750' W. OF CTH PP INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 5-1L	21"x21"	1	4	4						
33	CTH Z, W. OF CTH PP, PLACE 150' W. OF CTH PP INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
34	CTH Z, AT CTH PP, PLACE BETWEEN R1-1 AND J13-2 SIGNS AT CTH PP INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						LEFT
35	CTH PP, N. OF CTH Z, PLACE RIGHT OF EXISTING J13-2 SIGN	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						RIGHT
36	CTH PP, N. OF CTH Z, PLACE 150' N. OF CTH Z INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
37	CTH PP, N. OF CTH Z, PLACE 1000' N. OF CTH Z INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 5-1R	21"x21"	1	4	4						
38	CTH PP, S. OF MILL RD, PLACE 100' S. OF MILL RD INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-2	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						AHEAD
39	CTH PP, N. OF MILL RD, PLACE 100' N. OF MILL RD INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						AHEAD
40	CTH PP, S. OF STH 96, MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"x18"	1	4	4						
41	CTH PP, S. OF STH 96, PLACE 150' S. OF STH 96 INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96

PLAN SHEET PRODUCED

PAGE SUBTOTALS

45

180

0

0

0

0

BY WisDOT - NE REGION

PROJECT NUMBER: 4085-33-71

HWY: STH 32/57

COUNTY: BROWN

MISCELLANEOUS QUANTITIES

SHEET

E

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 4 DAYS	643.0900 SIGNS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A DAYS	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
42	CTH PP, AT STH 96, MODIFY EXISTING J13-1 SIGN AS SHOWN	MO 6-1	21"x21"	1	4	4						RIGHT
43	STH 96, AT CTH PP, PLACE ON RIGHT SHOULDER IN NW QUADRANT OF INTERSECTION	R 11-3	60"x30"	1	4	4	4	8				1 1/2 MILES AHEAD
44	STH 96, AT CTH PP, PLACE RIGHT OF EXISTING J13-1 SIGN	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 6-1	21"x21"	1	4	4						LEFT
45	STH 96, E. OF CTH PP, PLACE 750' E. OF CTH PP/LEDGETOP DR INTERSECTION	MO 4-8	24"x12"	1	4	4						
	"	M 3-4	24"x12"	1	4	4						
	"	M 1-6	24"x24"	1	4	4						96
	"	MO 5-1L	21"x21"	1	4	4						
46	STH 96, E. OF CTH PP, PLACE 1/4 MILE E. OF CTH PP/LEDGETOP DR INTERSECTION	W 20-2A	48"x48"	1	4	4						

PAGE SUBTOTALS	11	44	4	8	0	0
STH 96 DETOUR TOTALS	147	588	8	16	0	1

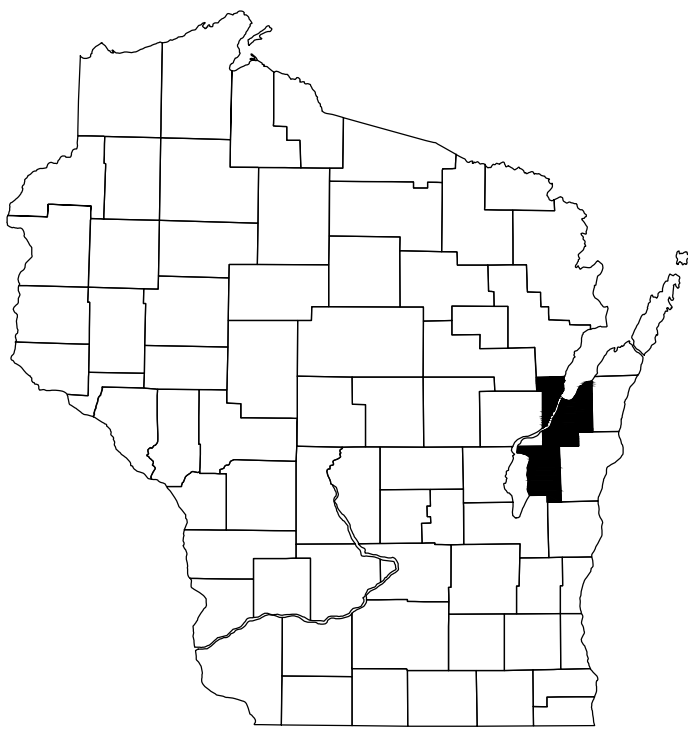
PLAN SHEET PRODUCED
BY WisDOT - NE REGION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
4085-33-21
HILBERT - GREEN BAY

SCL - DEUSTER ST

STH 32/57

BROWN COUNTY CALUMET COUNTY



CONVENTIONAL SYMBOLS

SECTION LINE	-----	SECTION CORNER SYMBOL		R/W MONUMENT (TO BE SET)	•
QUARTER LINE	-----	SECTION CORNER MONUMENT		NON-MONUMENTED R/W POINT	o
SIXTEENTH LINE	-----	GEODETIC SURVEY MONUMENT		FOUND IRON PIN (1-INCH UNLESS NOTED)	IP
NEW REFERENCE LINE	-----	SIXTEENTH CORNER MONUMENT		OFF-PREMISE SIGN	
NEW R/W LINE	-----	SIGN			
EXISTING R/W OR HE LINE	-----				
PROPERTY LINE	-----				
LOT, TIE & OTHER MINOR LINES	-----				
SLOPE INTERCEPT	-----				
CORPORATE LIMITS	-----				
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.)	-----				
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)	-----				
TEMPORARY LIMITED EASEMENT AREA	-----				
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)	-----				
TRANSMISSION STRUCTURES	-----				
BUILDING	-----				
BRIDGE	-----				

CONVENTIONAL ABBREVIATIONS

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

CURVE DATA

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

CONVENTIONAL UTILITY SYMBOLS

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



PROJECT LOCATION

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 4085-33-21.

NOTES:

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

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

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

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

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

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

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

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

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY.

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

FOR EXISTING HIGHWAY RIGHT-OF-WAY AND ACCESS CONTROL POINTS OF REFERENCE SEE INDIVIDUAL TPP DETAIL PAGES.

R/W COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
33	301	S00°12'48"W	33.00'
301	302	S89°55'25"W	9.83'
302	303	S70°23'45"W	192.85'
303	304	S84°30'37"W	147.55'
304	305	S21°16'58"W	388.03'
306	307	N21°16'58"E	341.27'
307	308	N02°30'47"W	85.41'
308	309	S89°55'25"W	104.91'
309	310	N16°44'28"E	68.95'
310	311	N89°55'25"E	110.73'
311	312	N39°24'27"E	110.67'
312	313	N21°14'42"E	301.92'
314	315	S21°14'42"W	354.38'
315	316	N89°55'25"E	425.76'

TOWN

250' UTILITY EASEMENT
DOC. #622657EASEMENT ASSIGNMENT
DOC. #521364EASEMENT ASSIGNMENT
DOC. #2780724CONVEYANCE OF RIGHTS
DOC. #1464327FRAC.
SW-SW

TOWN

FRAC.
NE-NE

OF

OF

OF

TRANSPORTATION PROJECT PLAT NO: 4085-33-21 - 4.01

PART OF THE FRACTIONAL NE1/4-NE1/4 OF SECTION 5, T20N, R20E, TOWN OF BRILLION, CALUMET COUNTY,
AND PART OF THE SE1/4-SW1/4 OF SECTION 31, T21N, R20E, TOWN OF HOLLAND, BROWN COUNTY, WISCONSIN

RELOCATION ORDER STH 32/57 HILBERT - GREEN BAY (SCL - DEUSTER ST) BROWN COUNTY CALUMET COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE,
THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND
INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION
HEREBY ORDERS THAT:1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED
IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), BROWN COUNTY, NAD83(2011) IN
U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" I.D. X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED
PRIOR TO THE COMPLETION OF THE PROJECT.FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE
IN GREEN BAY.FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET,
RECORDED AS SHEET 2 OF 2.

DOCUMENT # 536700

TAMARA ALTEN
REGISTER OF DEEDS
CALUMET COUNTY, WI
02/06/2019 03:03 PM
VOL: D PAGE: 118
RECORDING FEE: 25.00RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4085-33-21 - 4.01
SHEET 1 OF 2

2850556

CHERYL BERKEN
BROWN COUNTY RECORDER
GREEN BAY, WI
RECORDED ON
02/08/2019 09:45 AM
REC FEE:
TRANS FEE:
EXEMPT #PAGES: 2
**The above recording information
verifies that this document has
been electronically recorded and
returned to the submitter**PK NAIL & WASHER
Y 467524.43
X 71947.09
STA 21+43.22, 0.00' RT

SE-SW

HOLLAND

MAN-CAL ROAD

BROWN COUNTY

CALUMET COUNTY

SECTION LINE

R/L = SECTION LINE

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW	R/W ACRES REQUIRED EXISTING	TOTAL	HE ACRES	TLE ACRES
1	NATHAN J. SCHNELL	TLE	0	0	0	0	0.035
2	STEVEN J. BROOKS, DENNIS W. BROOKS, LAURIE VANDER HEIDEN, AND LINDA ROBERTSON, AN UNDIVIDED 1/4 INTEREST (HOWARD B. BROOKS, LIFE ESTATE)	FEE, TLE	0.153	0.140	0.293	0	0.046
3	STATE OF WISCONSIN, DEPARTMENT OF NATURAL RESOURCES	HE, TLE	0	0	0	0.162	0.090

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

THE PURPOSE FOR TLE'S IS SLOPES UNLESS OTHERWISE NOTED.

BASIS OF EXISTING R/W

ROUTE	BASIS	YEAR
STH 32/57	(BROWN COUNTY) FEDERAL AID PROJECT NO. 465-A (DIV. JOB NO. 3366)	1933
	(CALUMET COUNTY) FEDERAL AID PROJECT NO. 465-B (DIV. JOB NO. 3310)	1933
	R/W PROJECT NO. 4085-11-21	1994
MAN-CAL ROAD	R/W PROJECT NO. 4085-11-21	1994

UTILITY SCHEDULE & INTEREST REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
201	AMERICAN TRANSMISSION COMPANY, LLC	RELEASE OF RIGHTS
202	STOCKBRIDGE & SHERWOOD TELEPHONE CO.	RELEASE OF RIGHTS

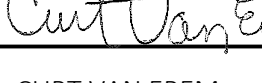
FRAC.
NW-NW

BRILLION

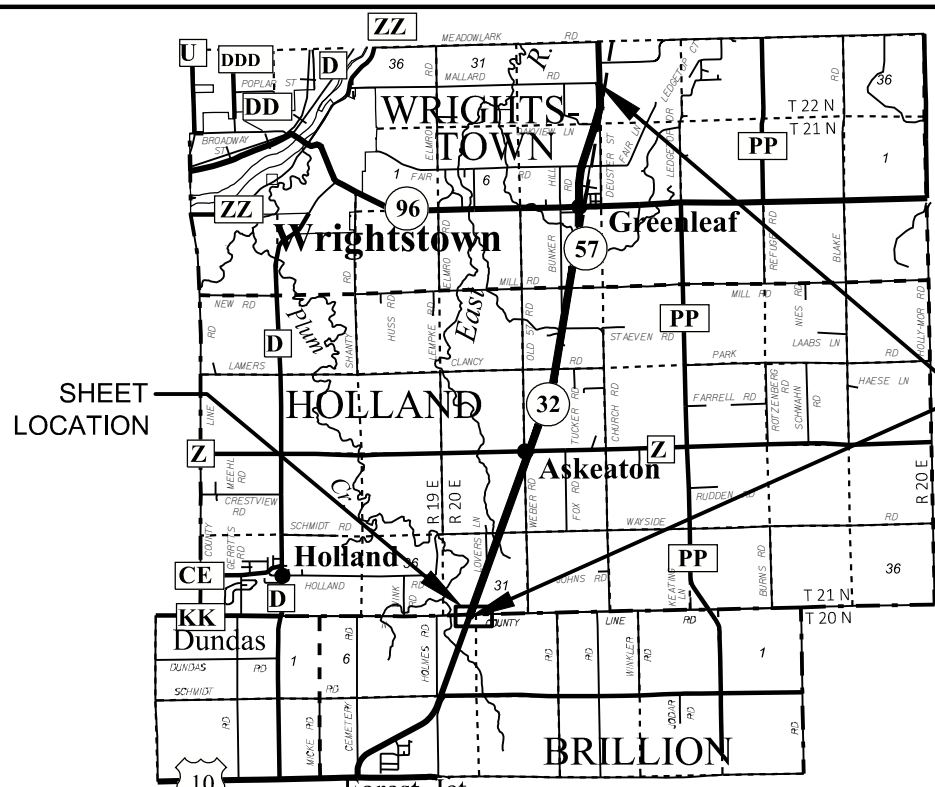
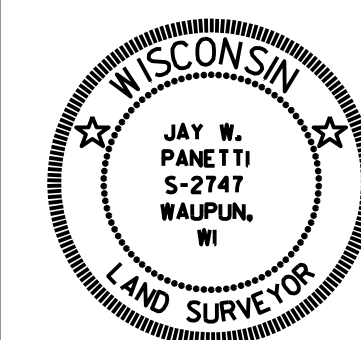
GREMMER
& ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du LacI, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN
FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN
STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION,
I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH
PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.SIGNATURE:  DATE: 2/4/2019

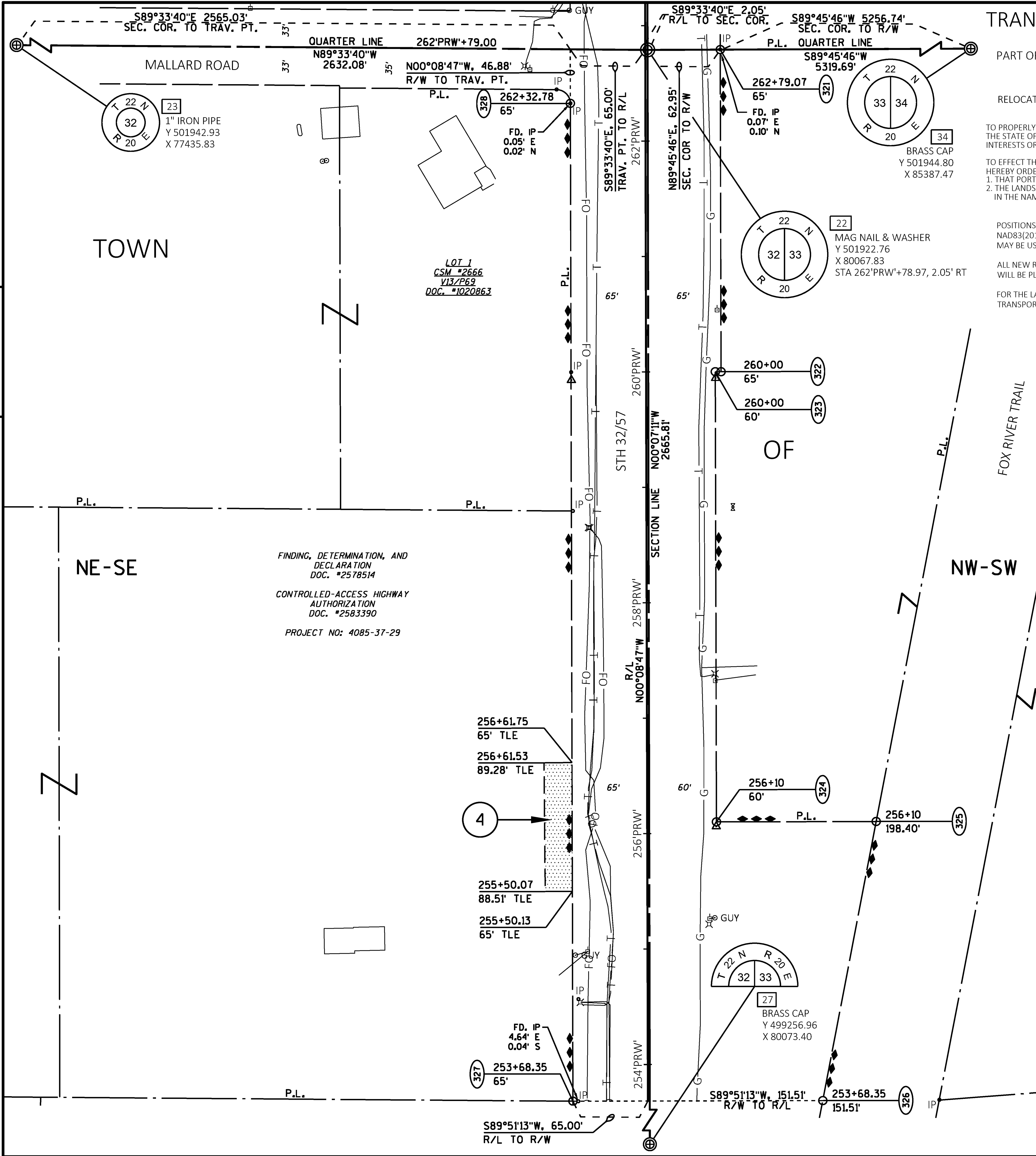
PRINT NAME: JAY W. PANETTI

REGISTRATION NUMBER: S-2747

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR
THE WISCONSIN DEPARTMENT OF TRANSPORTATION,SIGNATURE:  DATE: 2/4/2019

PRINT NAME: CURT VAN EREM





TRANSPORTATION PROJECT PLAT NO: 4085-33-21 - 4.02

PART OF THE NE1/4-SE1/4 OF SECTION 32, T22N, R20E, TOWN OF WRIGHTSTOWN, BROWN COUNTY, WISCONSIN

RELOCATION ORDER STH 32/57 HILBERT - GREEN BAY (SCL - DEUSTER ST) BROWN COUNTY CALUMET COUNTY

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

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

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

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

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

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY.

R/W COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
321	322	S00°08'47"E	279.07'
322	323	S89°51'13"W	5.00'
323	324	S00°08'47"E	390.00'
324	325	N89°51'13"E	138.40'
325	326	S10°50'13"W	246.16'
327	328	N00°08'47"W	864.42'

GN



SCALE, FEET 0 50 100

BASIS OF EXISTING R/W

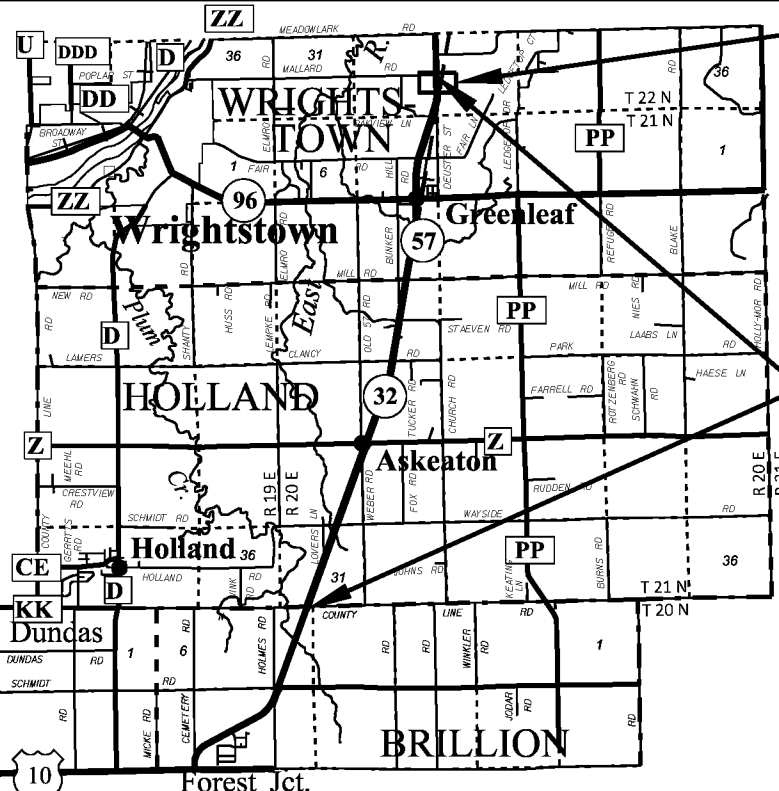
ROUTE	BASIS	YEAR
STH 32/57	DIVISION JOB NO. 3940, PROJECT T 02-4 (9)	1946, 1955
MALLARD ROAD	CSM #2666	1984

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED			TLE ACRES TEMP.
			NEW	EXISTING	TOTAL	
4	JOSEPH P. LEONHARD	TLE	0	0	0	0.061

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

THE PURPOSE FOR TLE'S IS SLOPES UNLESS OTHERWISE NOTED.



SHEET LOCATION

PROJECT LOCATION

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

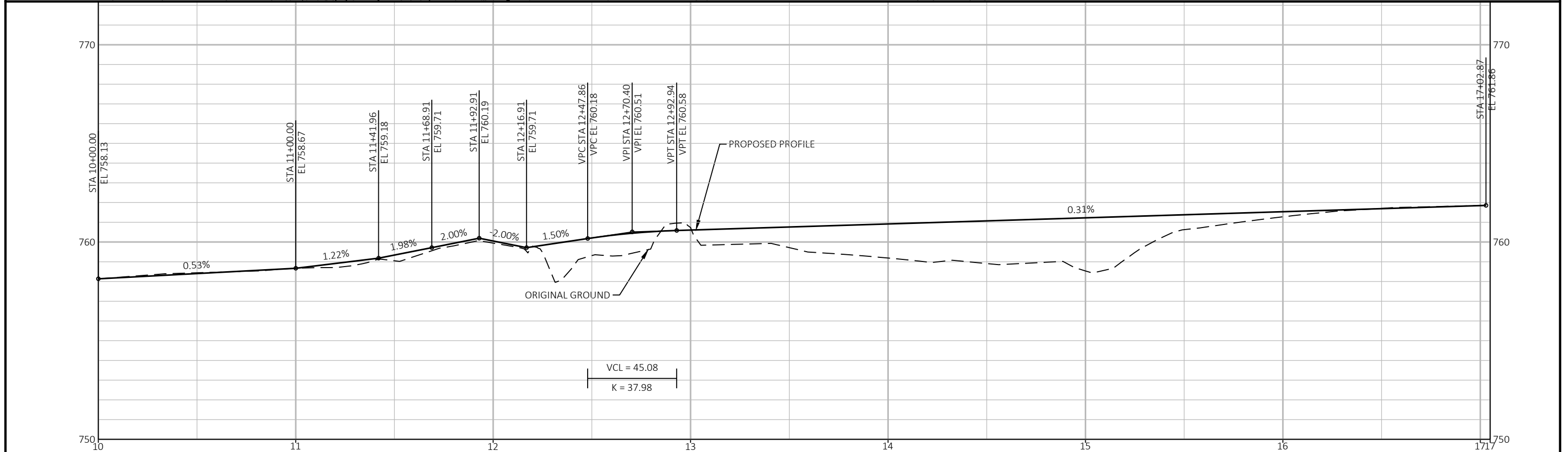
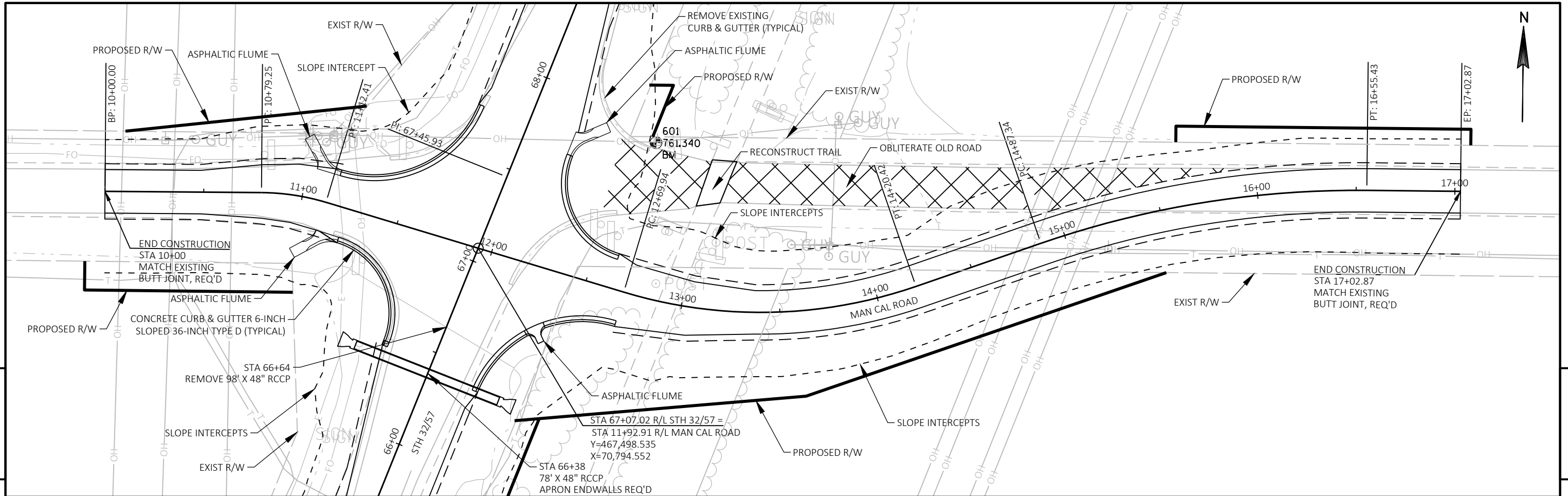


I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS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

SIGNATURE: *JWP* DATE: 2/13/2019
PRINT NAME: JAY W. PANETTI
REGISTRATION NUMBER: S-2747

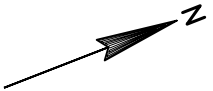
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION,

SIGNATURE: *Curt Van Erem* DATE: 2/13/2019
PRINT NAME: CURT VAN EREM



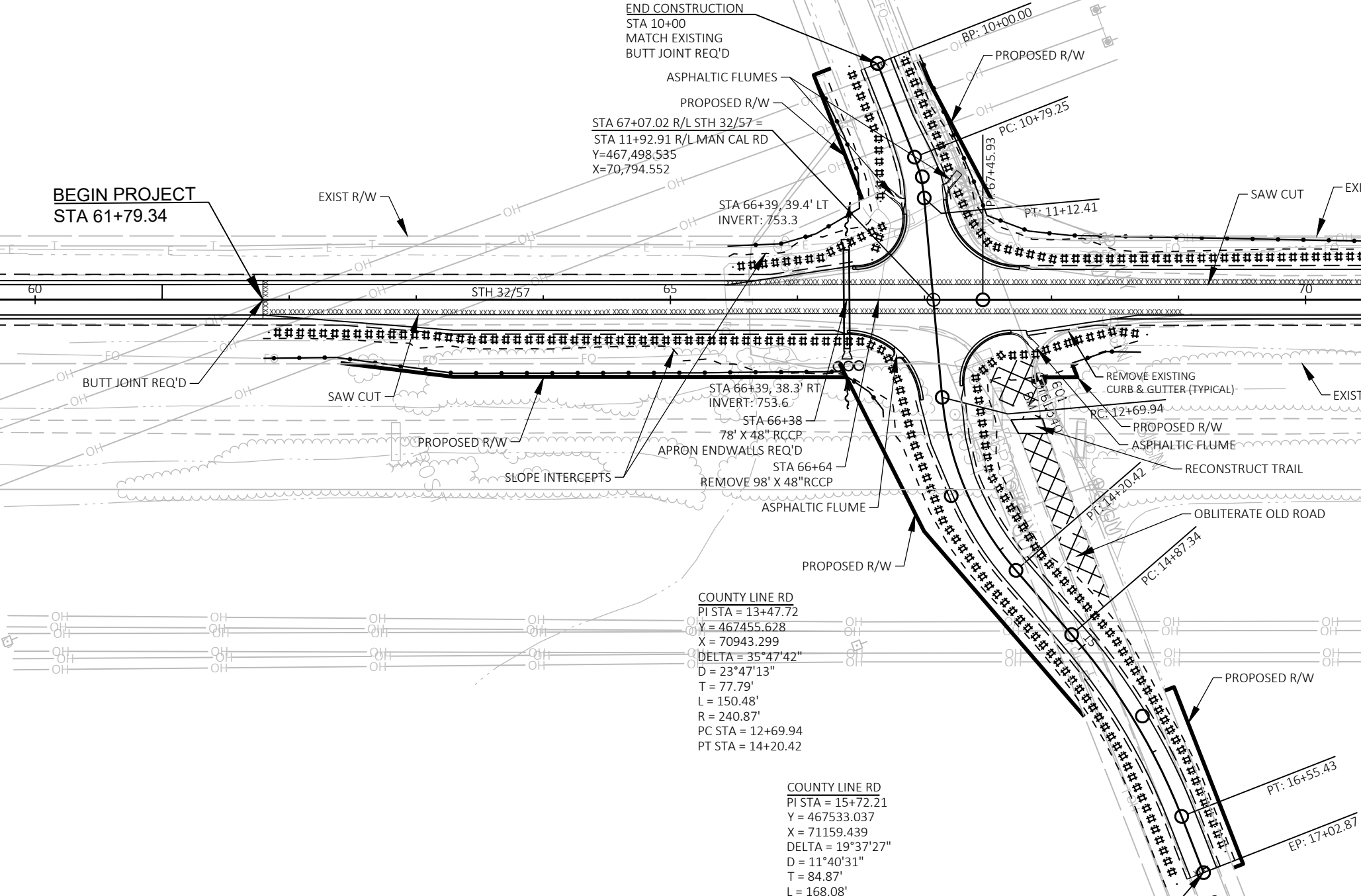
PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN AND PROFILE: MAN CAL ROAD	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 601	761.34	60d NAIL IN PPOL # 2120-31L9, NE CORNER MAN CAL RD & STH 32/57



5

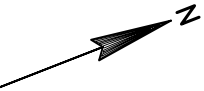
5



LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
~>	SURFACE WATER FLOW

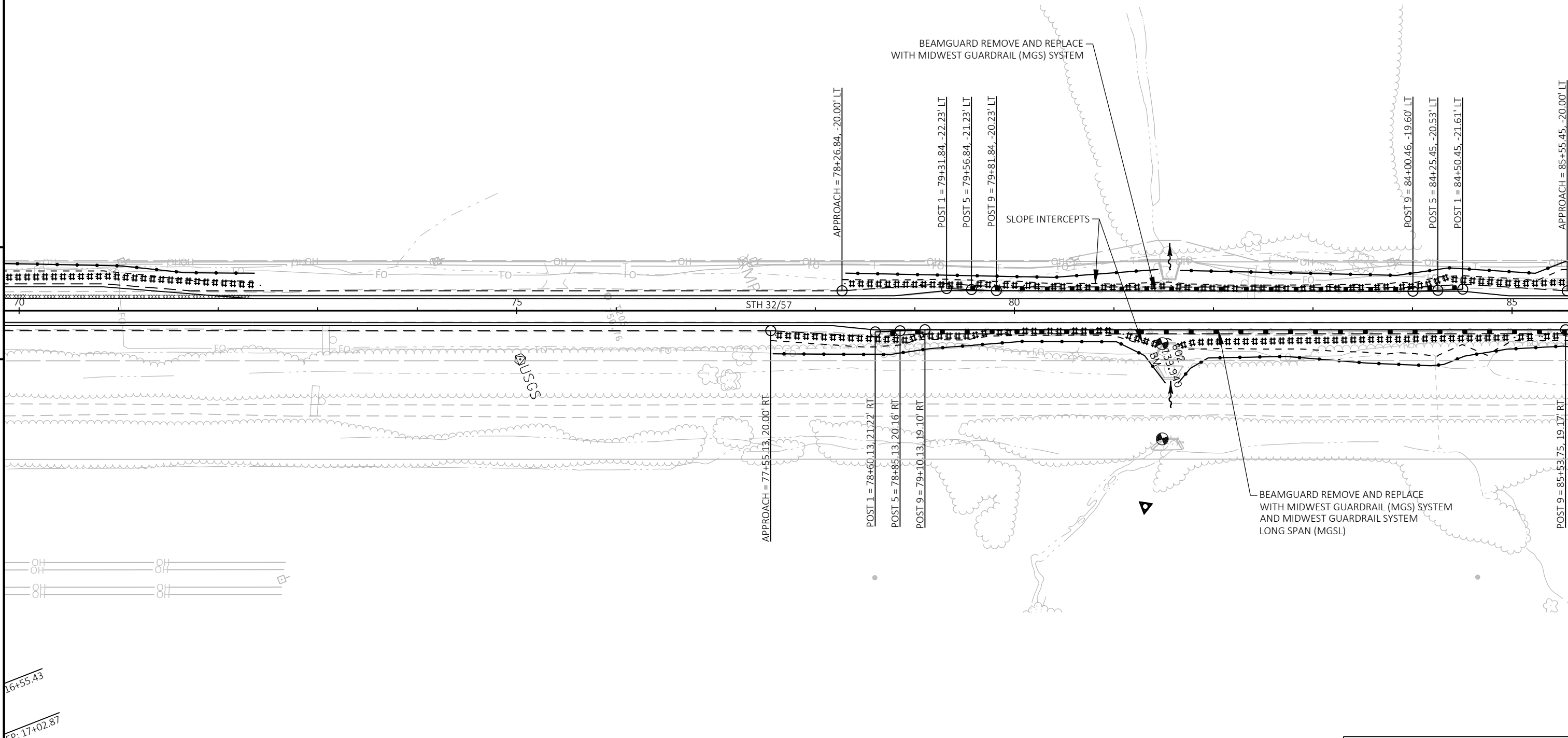
PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 602	739.94	DISK ON SE CORNER HEADWALL C-5-96-97 APPROX 1410' N OF C/L MAN CAL RD



5

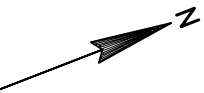
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LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
~>	SURFACE WATER FLOW

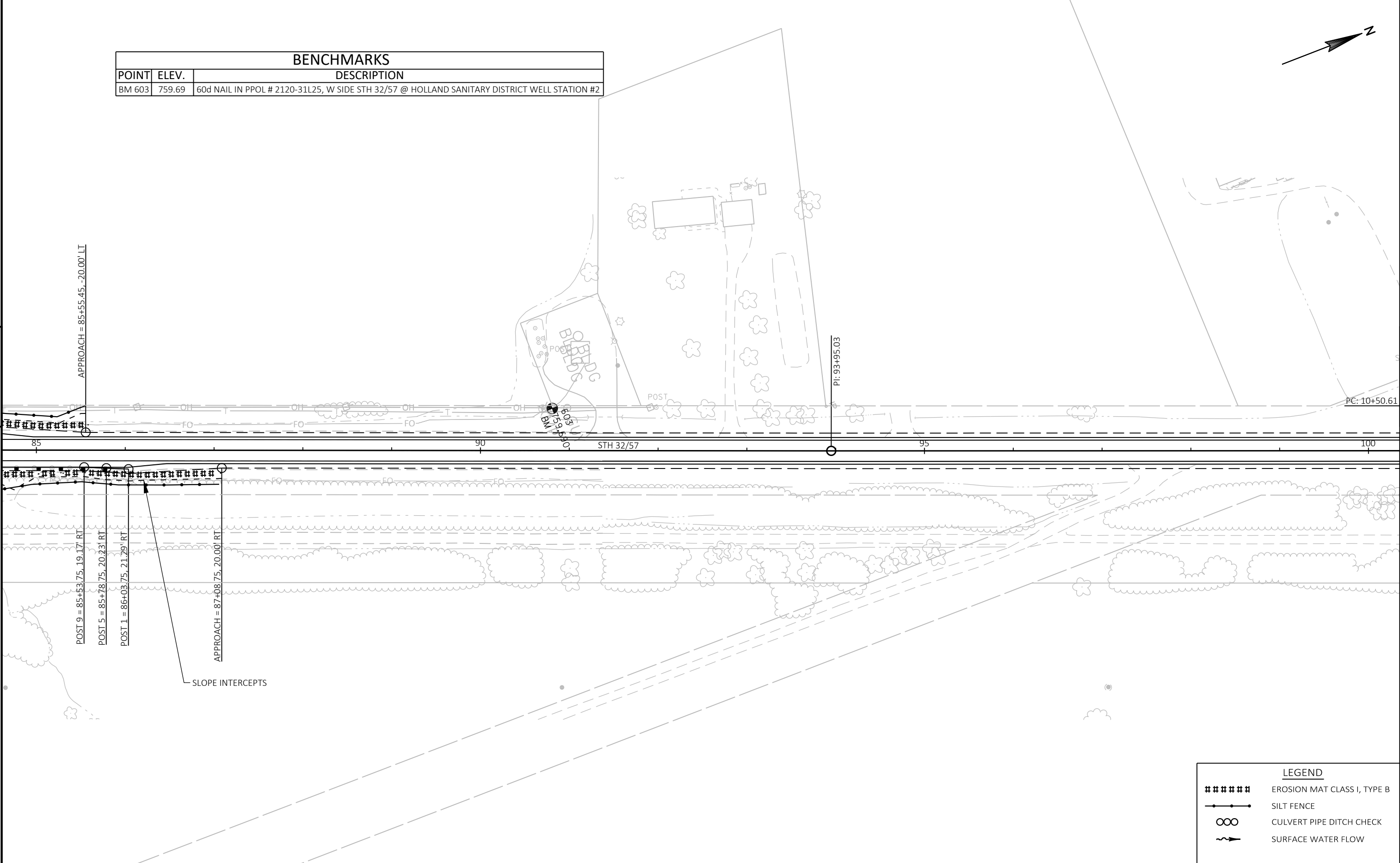
PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 603	759.69	60d NAIL IN PPOL # 2120-31L25, W SIDE STH 32/57 @ HOLLAND SANITARY DISTRICT WELL STATION #2



5

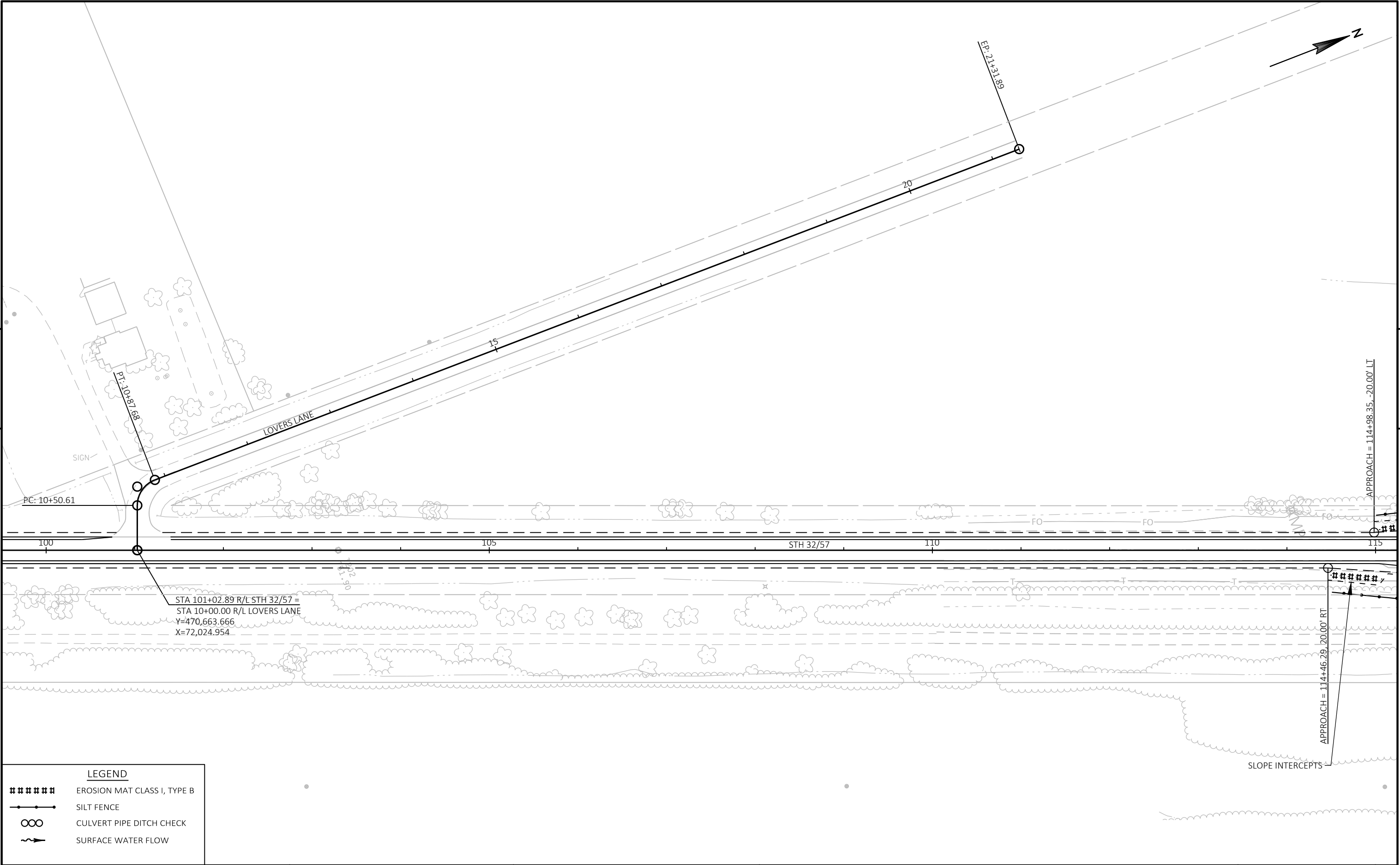
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LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
~>	SURFACE WATER FLOW

PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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EROSION MAT CLASS I, TYPE B

—●—

SILT FENCE

OO

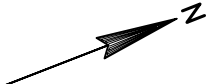
CULVERT PIPE DITCH CHECK

~>

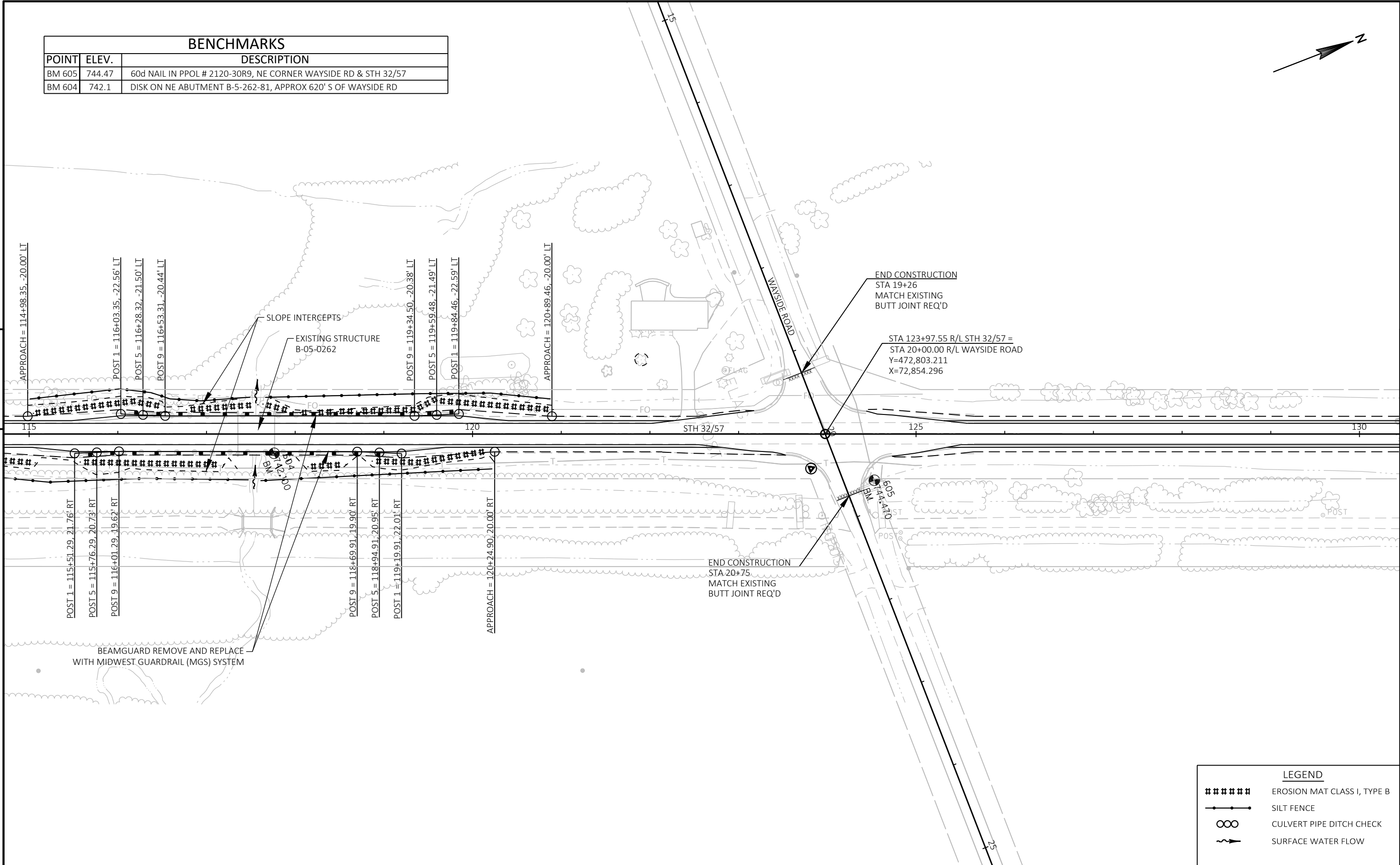
SURFACE WATER FLOW

PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 605	744.47	60d NAIL IN PPOL # 2120-30R9, NE CORNER WAYSIDE RD & STH 32/57
BM 604	742.1	DISK ON NE ABUTMENT B-5-262-81, APPROX 620' S OF WAYSIDE RD



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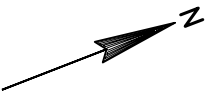


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LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
~>	SURFACE WATER FLOW

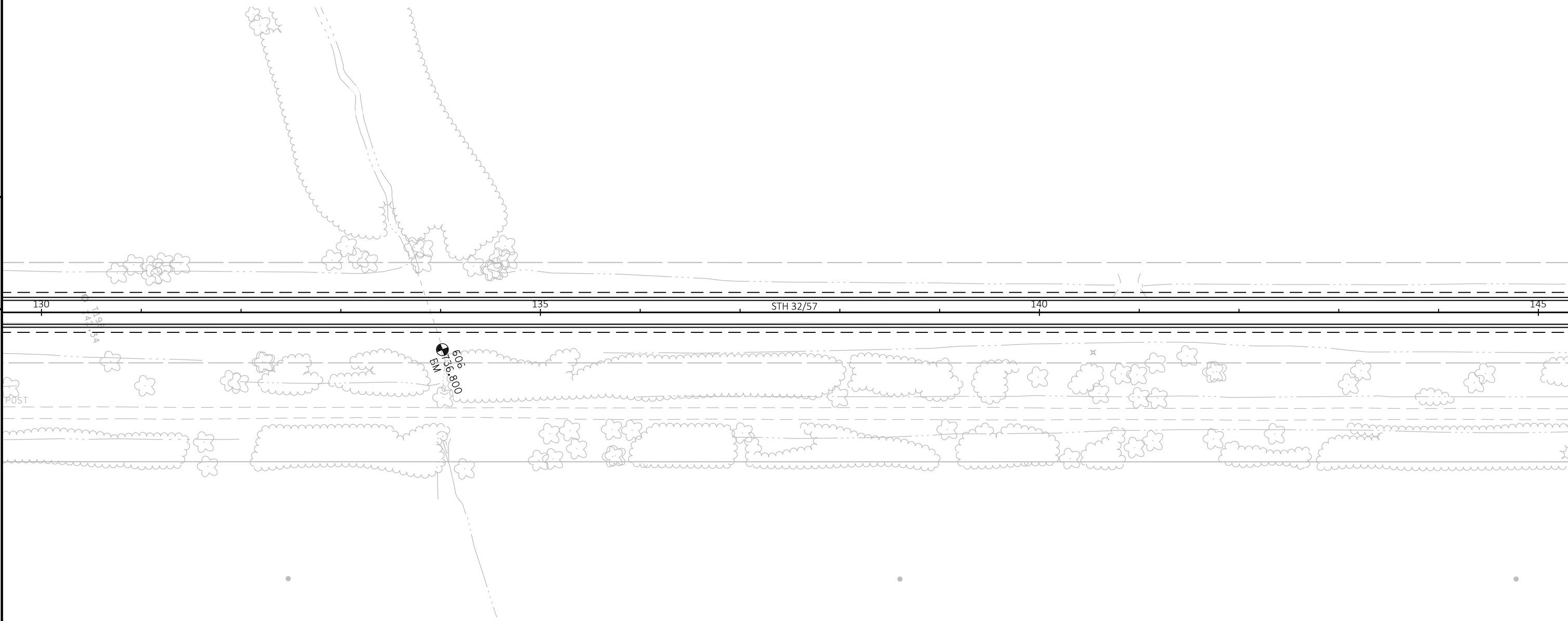
PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 606	736.8	CUT SQUARE TOP EAST END 48" RCCP APPROX 1000' NORTH OF WAYSIDE RD



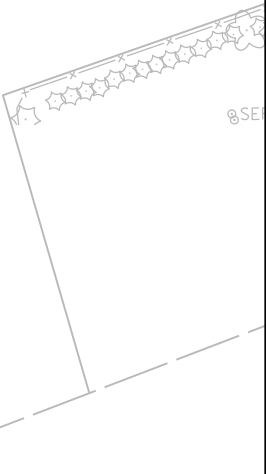
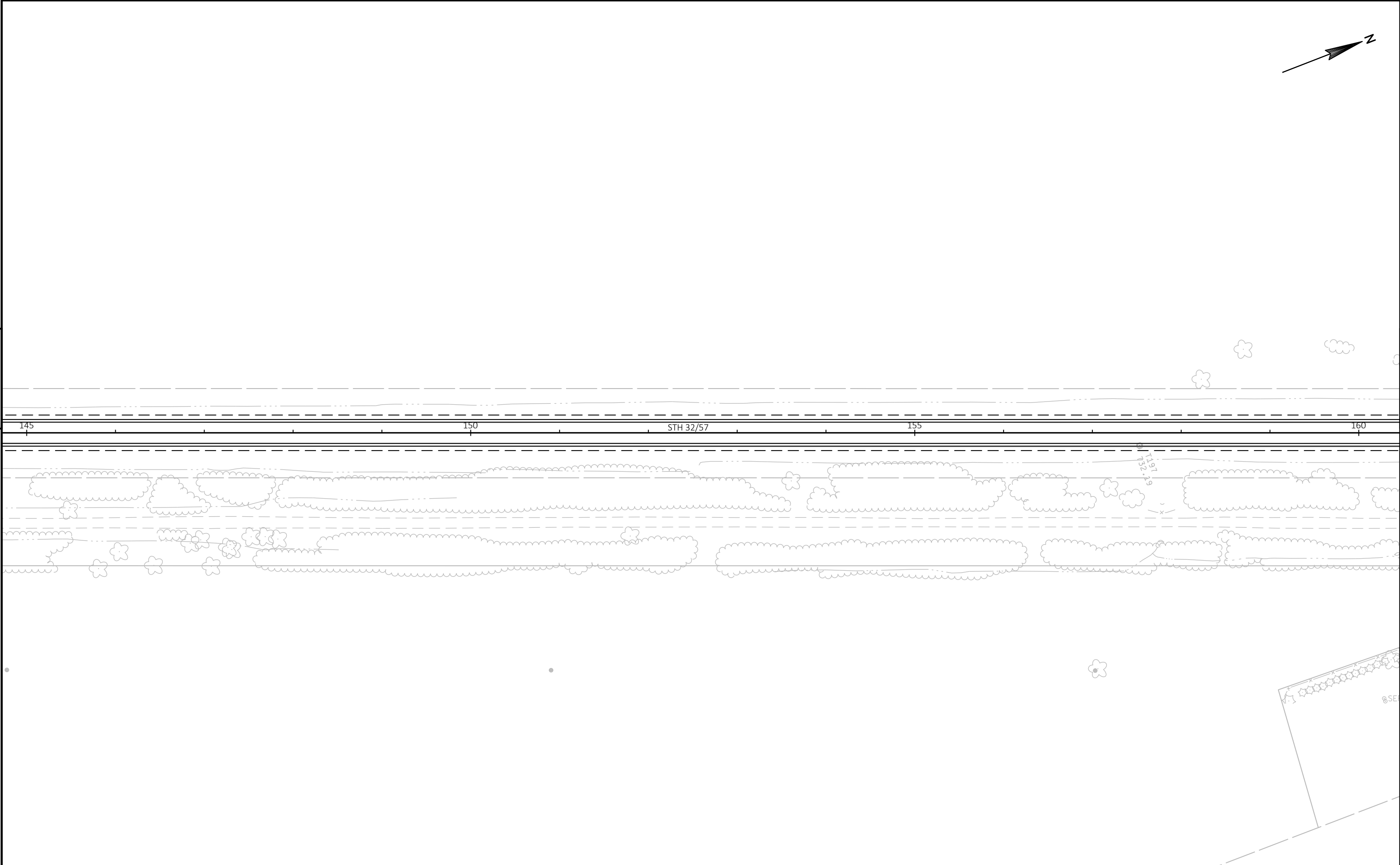
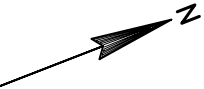
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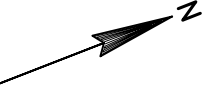
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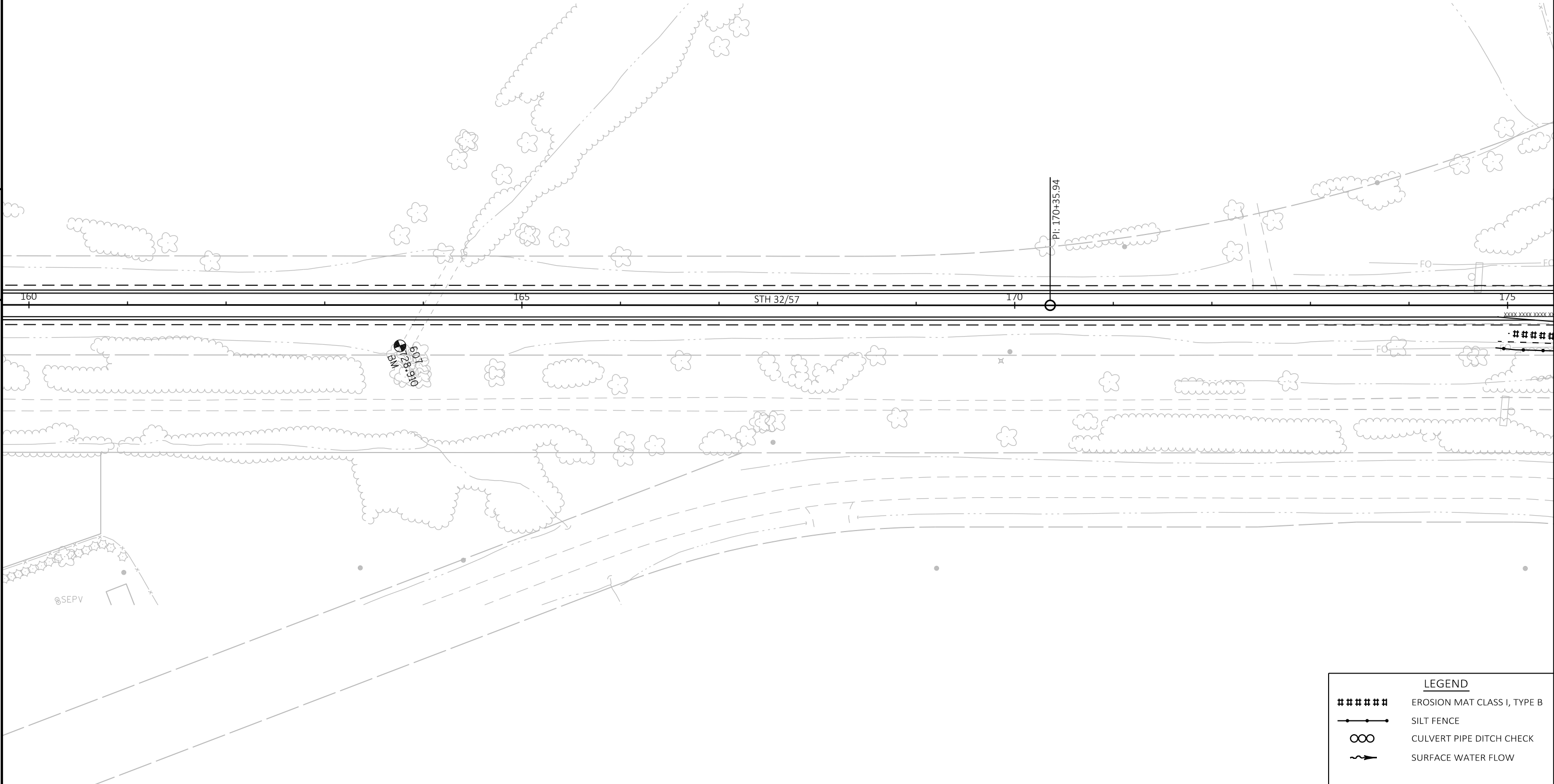


PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 607	728.91	CUT SQUARE TOP EAST END 60" RCCP APPROX 1640' SOUTH OF CTH Z



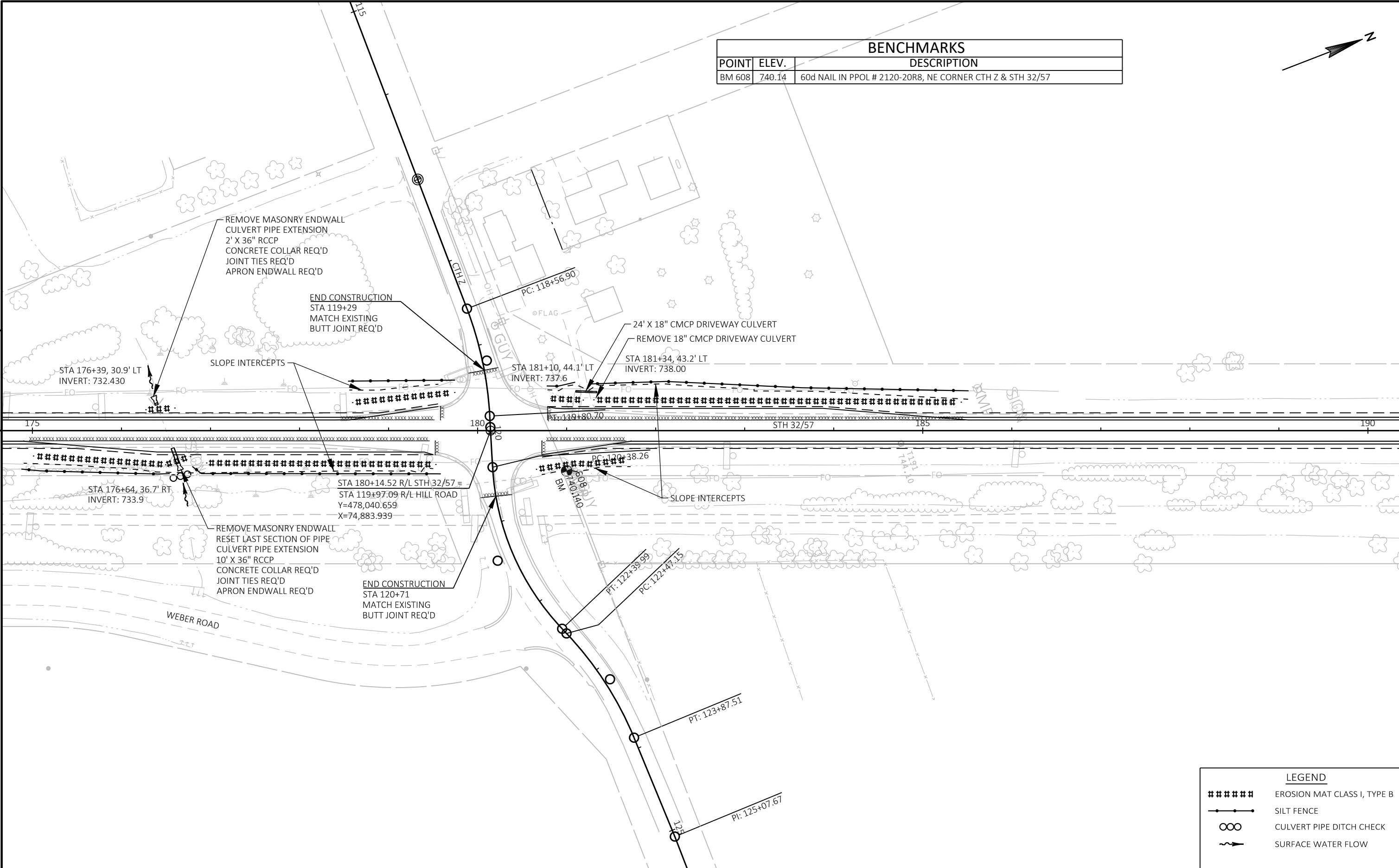
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LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
~>	SURFACE WATER FLOW

PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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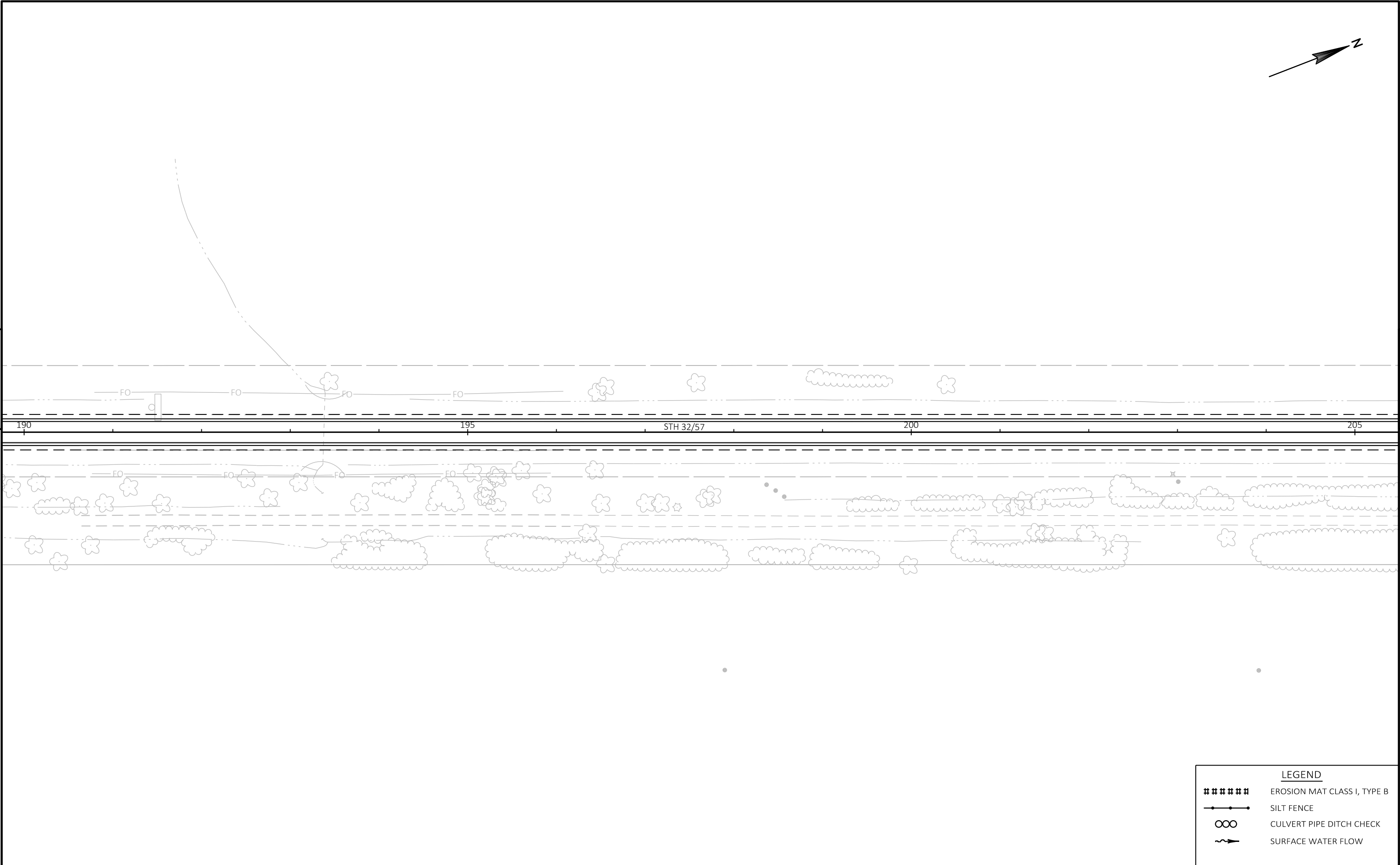


BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 608	740.14	60d NAIL IN PPOL # 2120-20R8, NE CORNER CTH Z & STH 32/57

LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
~>	SURFACE WATER FLOW

PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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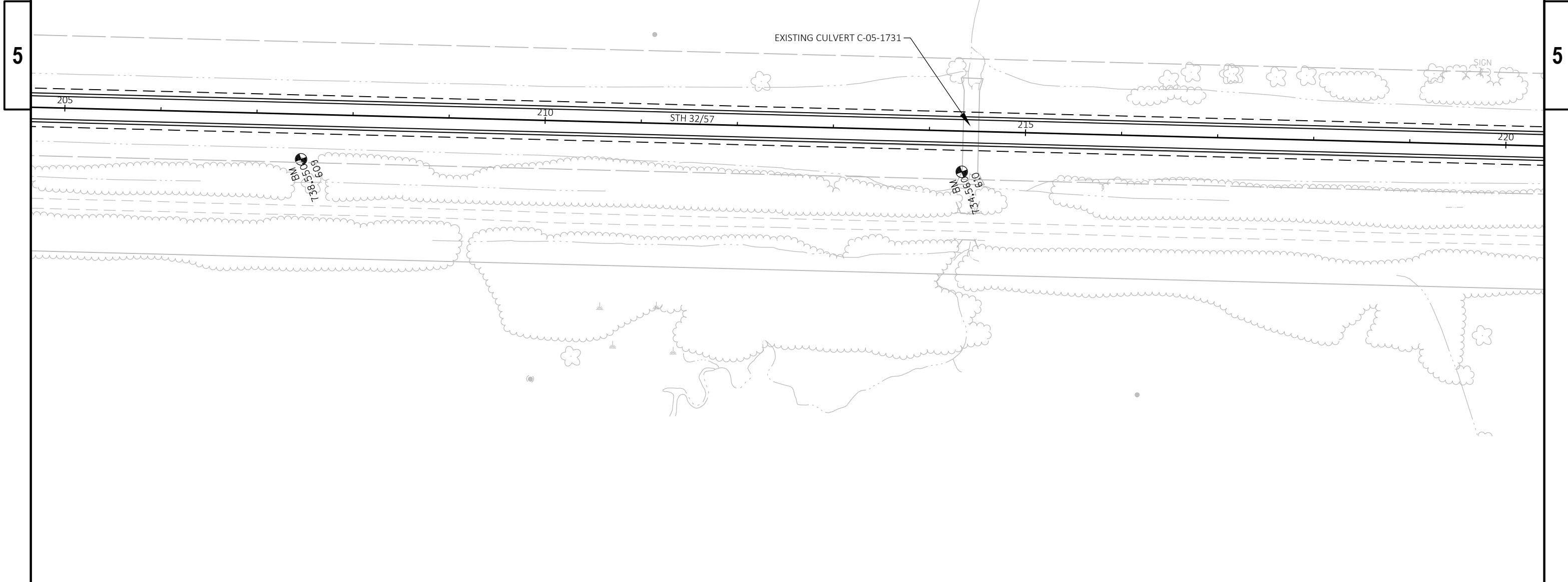
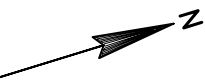


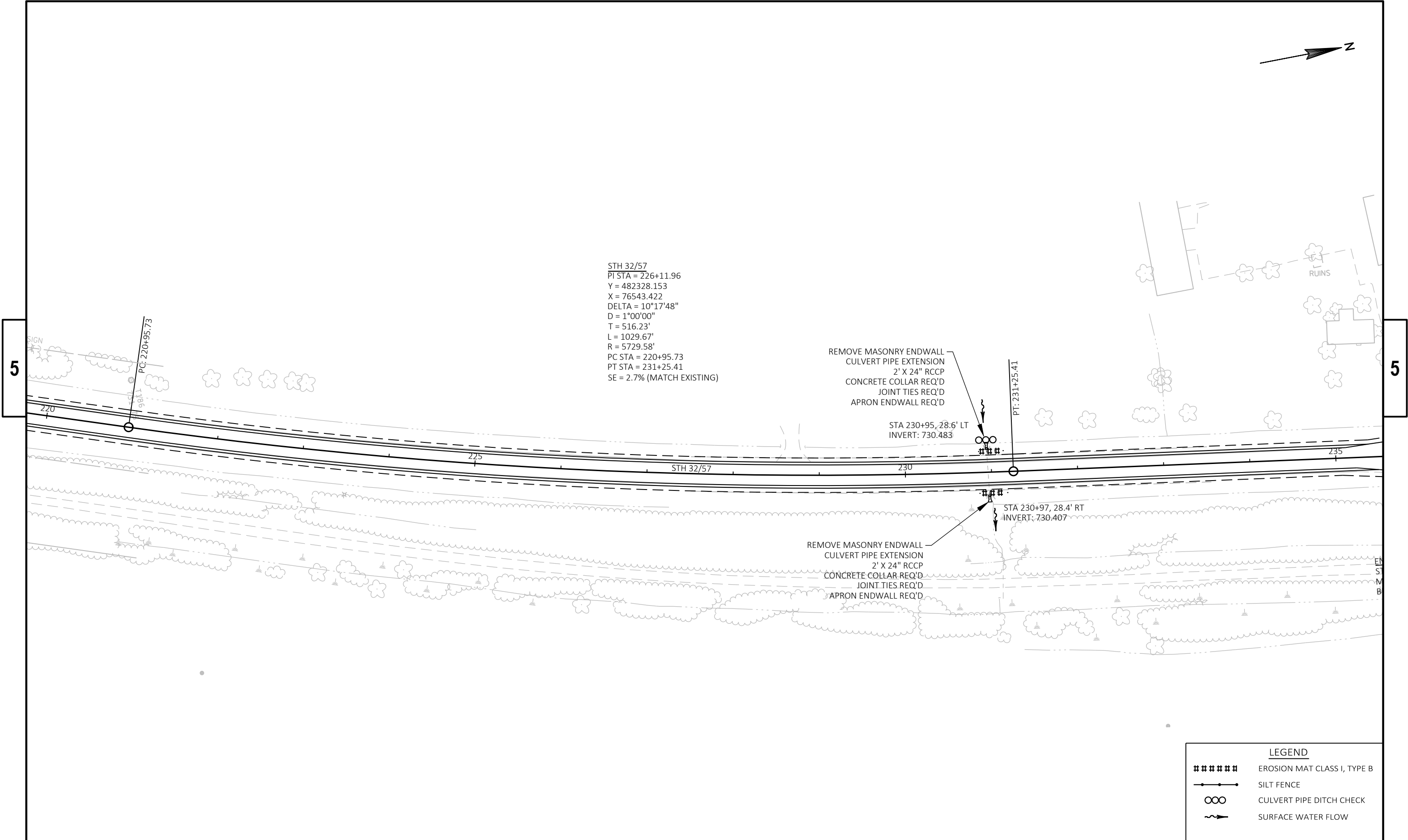
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LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
⊗	CULVERT PIPE DITCH CHECK
~→	SURFACE WATER FLOW

PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 610	734.56	DISK SE WING WALL C-5-1731-97, APPROX 3420' N OF C/L CTH Z
BM 609	738.55	60d NAIL IN ATC PPOL # 133356, E SIDE STH 32/57, APPROX 2730' N OF C/L CTH Z





STH 32/57
PI STA = 226+11.96
Y = 482328.153
X = 76543.422
DELTA = 10°17'48"
D = 1°00'00"
T = 516.23'
L = 1029.67'
R = 5729.58'
PC STA = 220+95.73
PT STA = 231+25.41
SE = 2.7% (MATCH EXISTING)

REMOVE MASONRY ENDWALL
CULVERT PIPE EXTENSION
2' X 24" RCCP
CONCRETE COLLAR REQ'D
JOINT TIES REQ'D
APRON ENDWALL REQ'D

STA 230+95, 28.6' LT
INVERT: 730.483

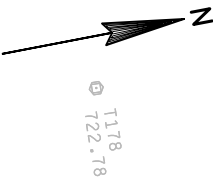
PT: 231+25.41

REMOVE MASONRY ENDWALL
CULVERT PIPE EXTENSION
2' X 24" RCCP
CONCRETE COLLAR REQ'D
JOINT TIES REQ'D
APRON ENDWALL REQ'D

STA 230+97, 28.4' RT
INVERT: 730.407

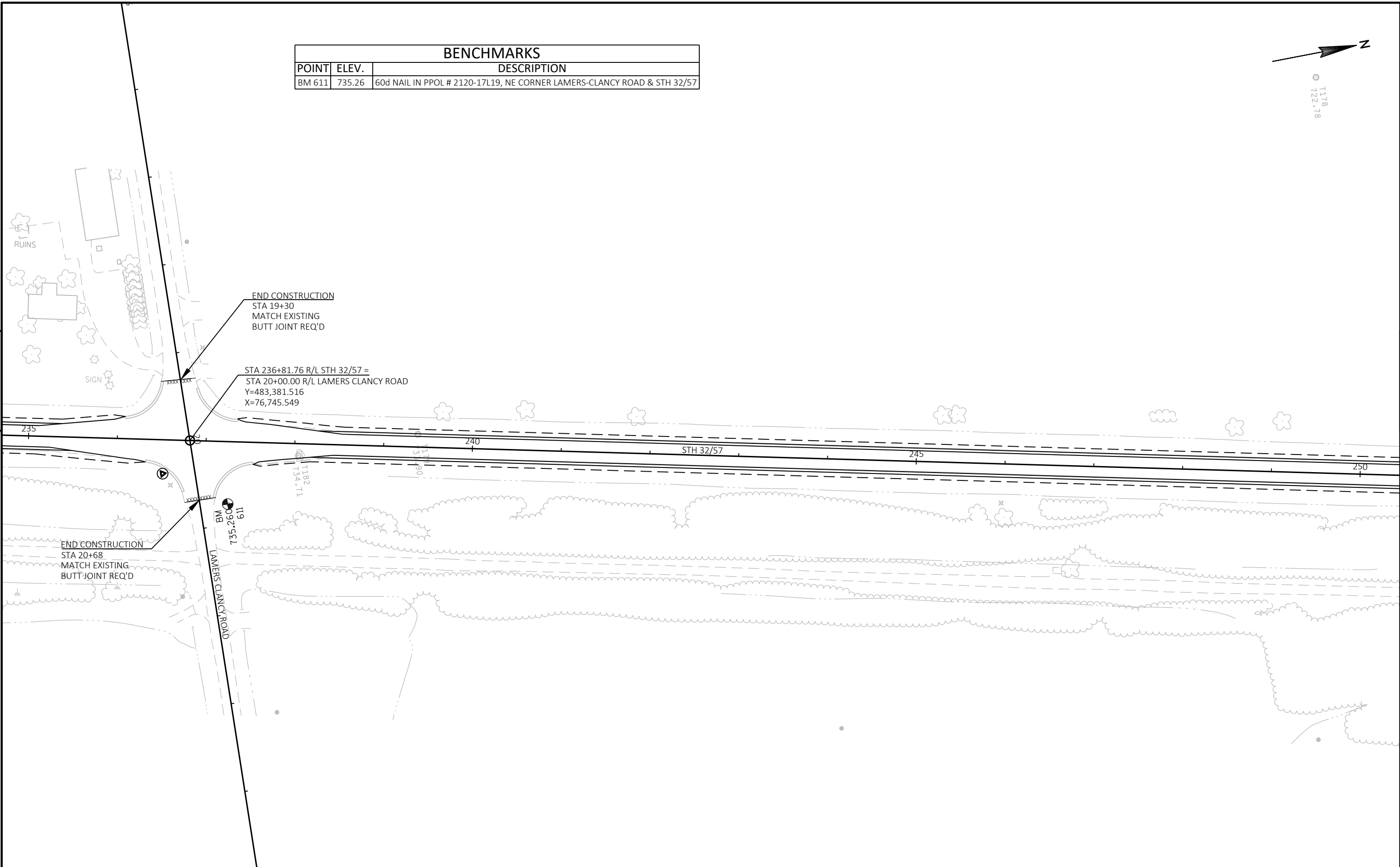
LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
~>	SURFACE WATER FLOW

BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 611	735.26	60d NAIL IN PPOL # 2120-17L19, NE CORNER LAMERS-CLANCY ROAD & STH 32/57



5

5



PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 613	713.80	60d NAIL IN PPOL # 2120-17W35, WEST SIDE STH 32/57 @ ST PATS CHURCH RD
BM 612	722.68	DISK SE WING WALL #C-5-97-97, APPROX 1115' S OF C/L ST PATS CHURCH RD



EXISTING CULVERT C-05-0097

EXISTING CULVERT C-05-1734

STA 263+88.40 R/L STH 32/57 =
STA 10+00.00 R/L ST PATS CHURCH ROAD
Y=486,039.659
X=77,255.614

END CONSTRUCTION
STA 10+62
MATCH EXISTING
BUTT JOINT-REQ'D

PC: 10+62.02

PT: 12+17.50

PI: 14+43

PROJECT NO: 4085-33-71

HWY: STH 32

COUNTY: BROWN

PLAN

SHEET

E

FILE NAME : N:\PDS\C3D\40853300\SHEETS\PLAN\050201_PN.DWG
LAYOUT NAME - 050214-pn

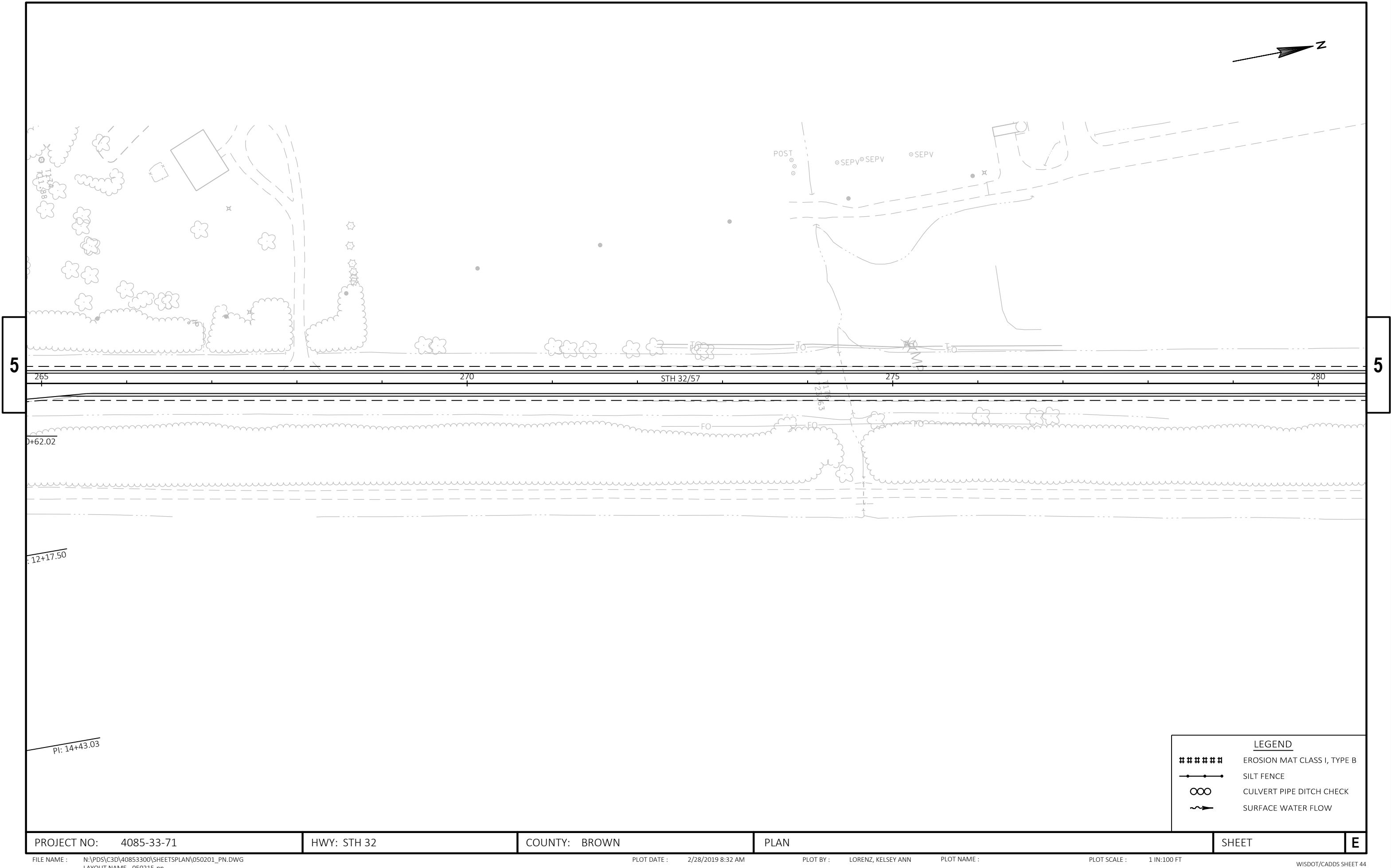
PLOT DATE : 2/28/2019 8:32 AM

PLOT BY : LORENZ, KELSEY ANN

PLOT NAME :

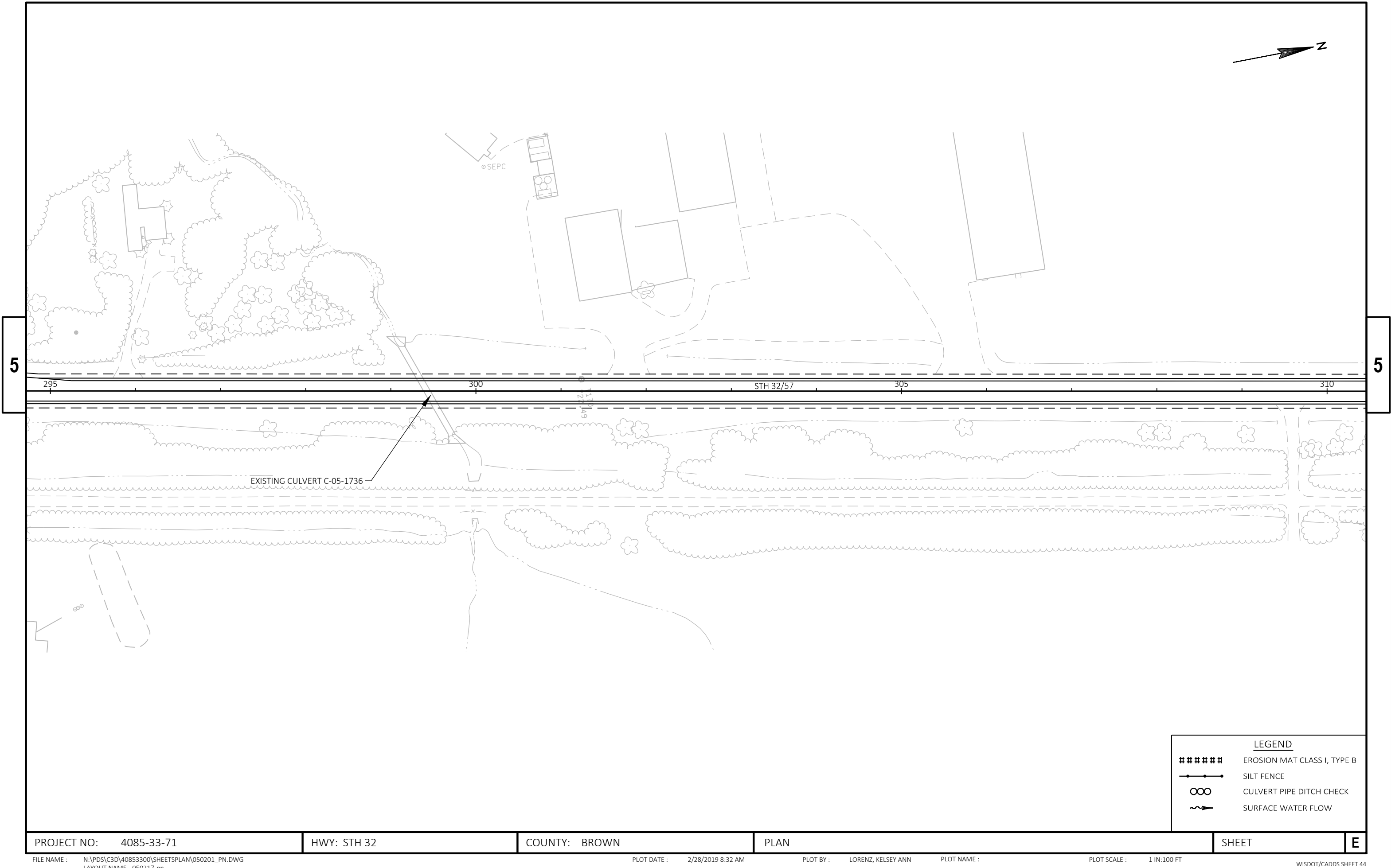
PLOT SCALE : 1 IN:100 FT

WISDOT/CADD5 SHEET 44



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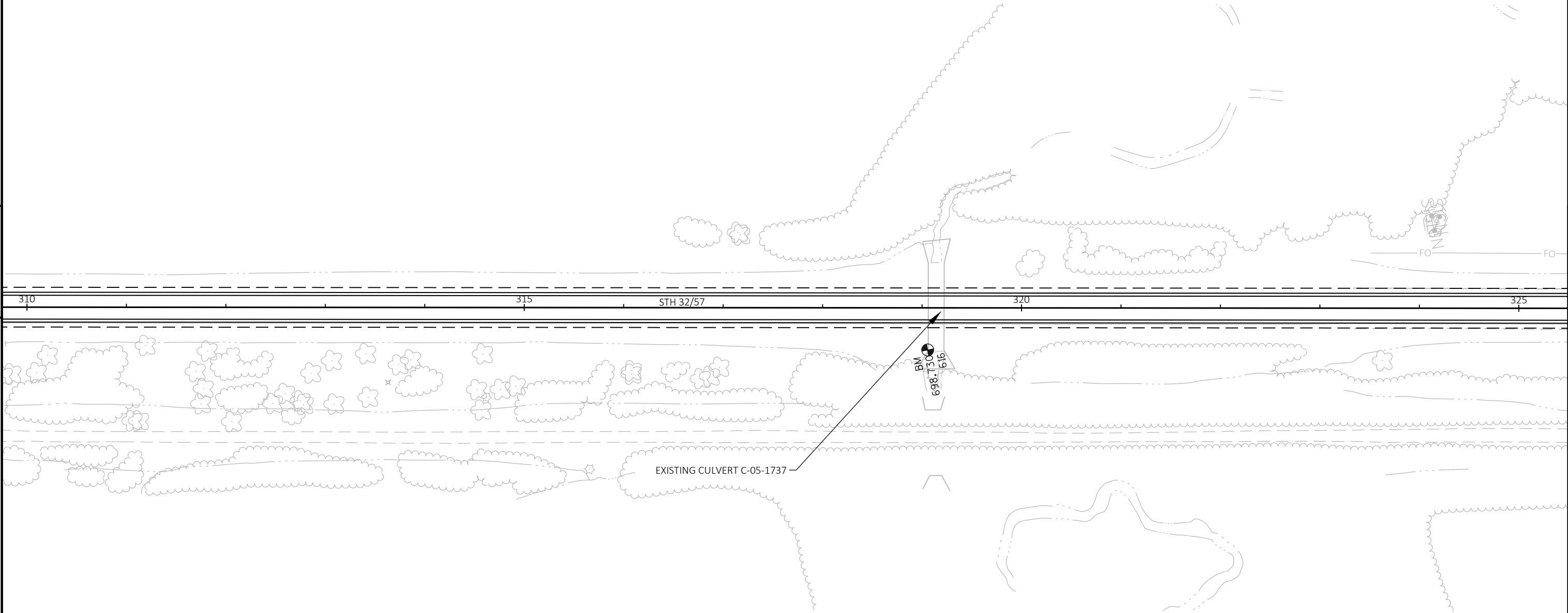
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 616	698.73	DISK ON SE WING WALL C-5-1737-97, APPROX 2880' N OF C/L OF MILL RD

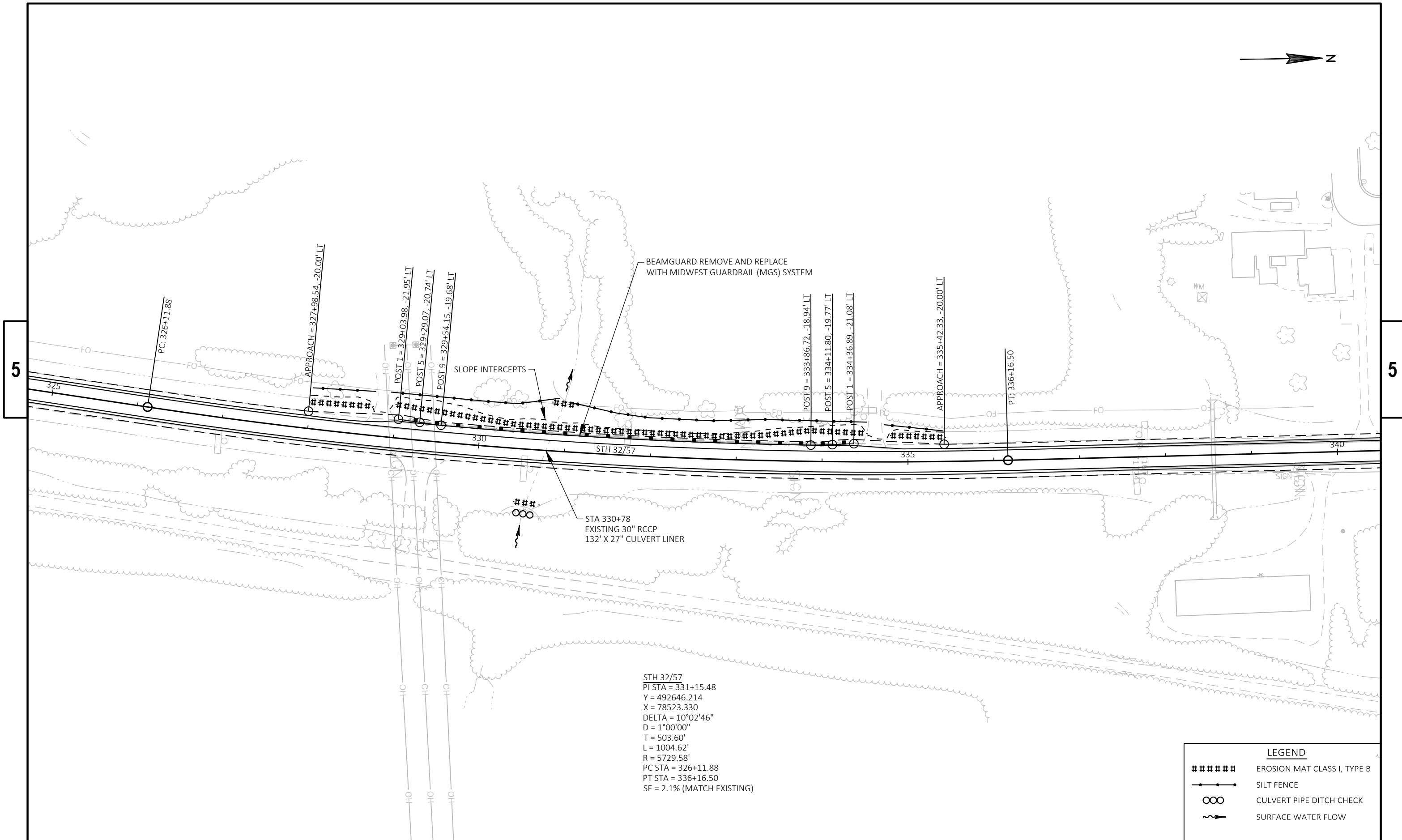


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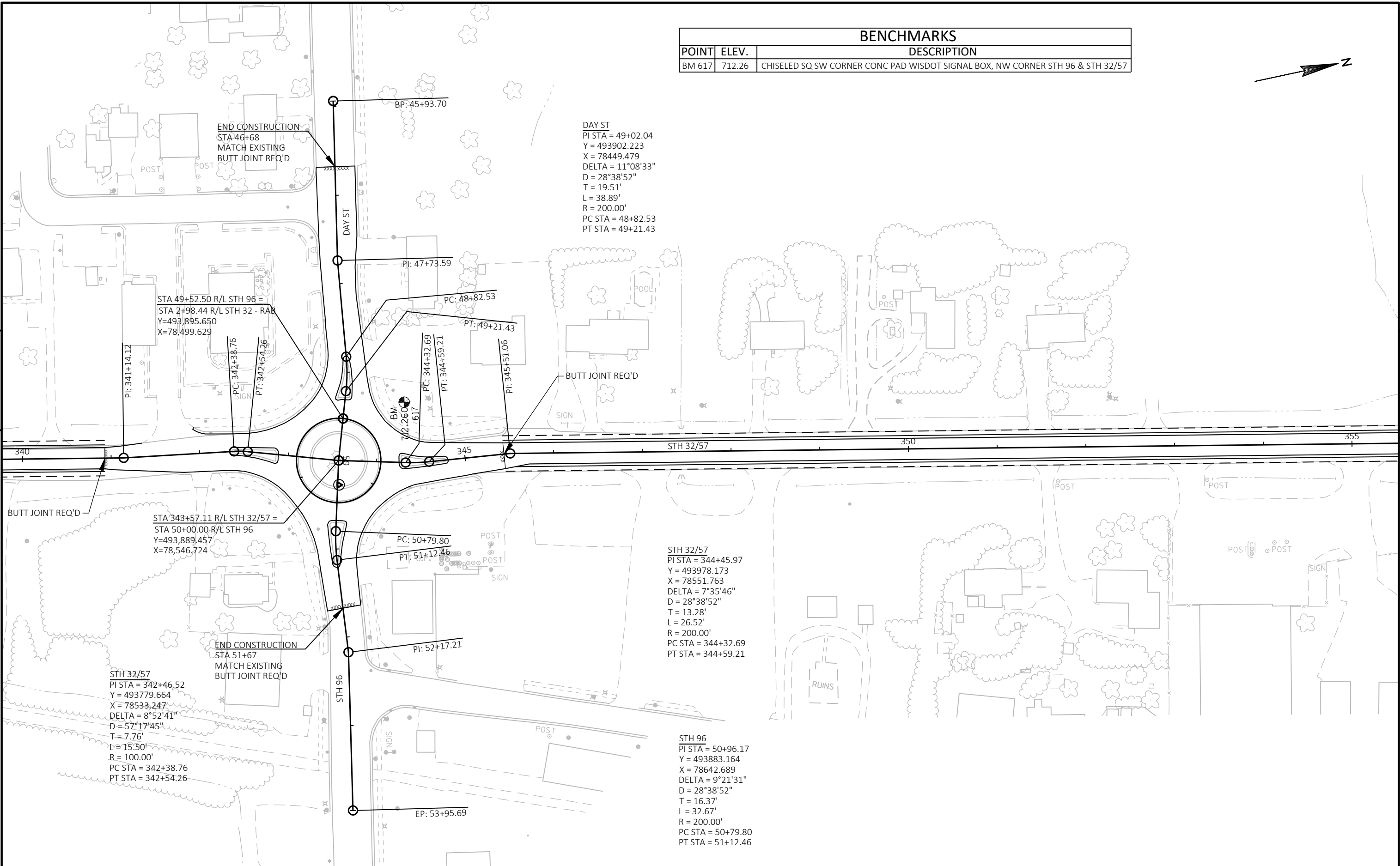
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PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
~>	SURFACE WATER FLOW

PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 617	712.26	CHISELED SQ SW CORNER CONC PAD WISDOT SIGNAL BOX, NW CORNER STH 96 & STH 32/57

DAY ST
PI STA = 49+02.04
Y = 493902.223
X = 78449.479
DELTA = 11°08'33"
D = 28°38'52"
T = 19.51'
L = 38.89'
R = 200.00'
PC STA = 48+82.53
PT STA = 49+21.43

STA 49+52.50 R/L STH 96 =
STA 2+98.44 R/L STH 32 - RAB
Y=493,895.650
X=78,499.629

PI: 341+14.12
PC: 342+38.76
PT: 342+54.26

PI: 47+73.59
PC: 48+82.53
PT: 49+21.43

PC: 344+32.69
PT: 344+59.21
PI: 345+51.06

STA 343+57.11 R/L STH 32/57 =
STA 50+00.00 R/L STH 96
Y=493,889.457
X=78,546.724

PC: 50+79.80
PT: 51+12.46

STH 32/57
PI STA = 342+46.52
Y = 493779.664
X = 78533.247
DELTA = 8°52'41"
D = 57°17'45"
T = 7.76'
L = 15.50'
R = 100.00'
PC STA = 342+38.76
PT STA = 342+54.26

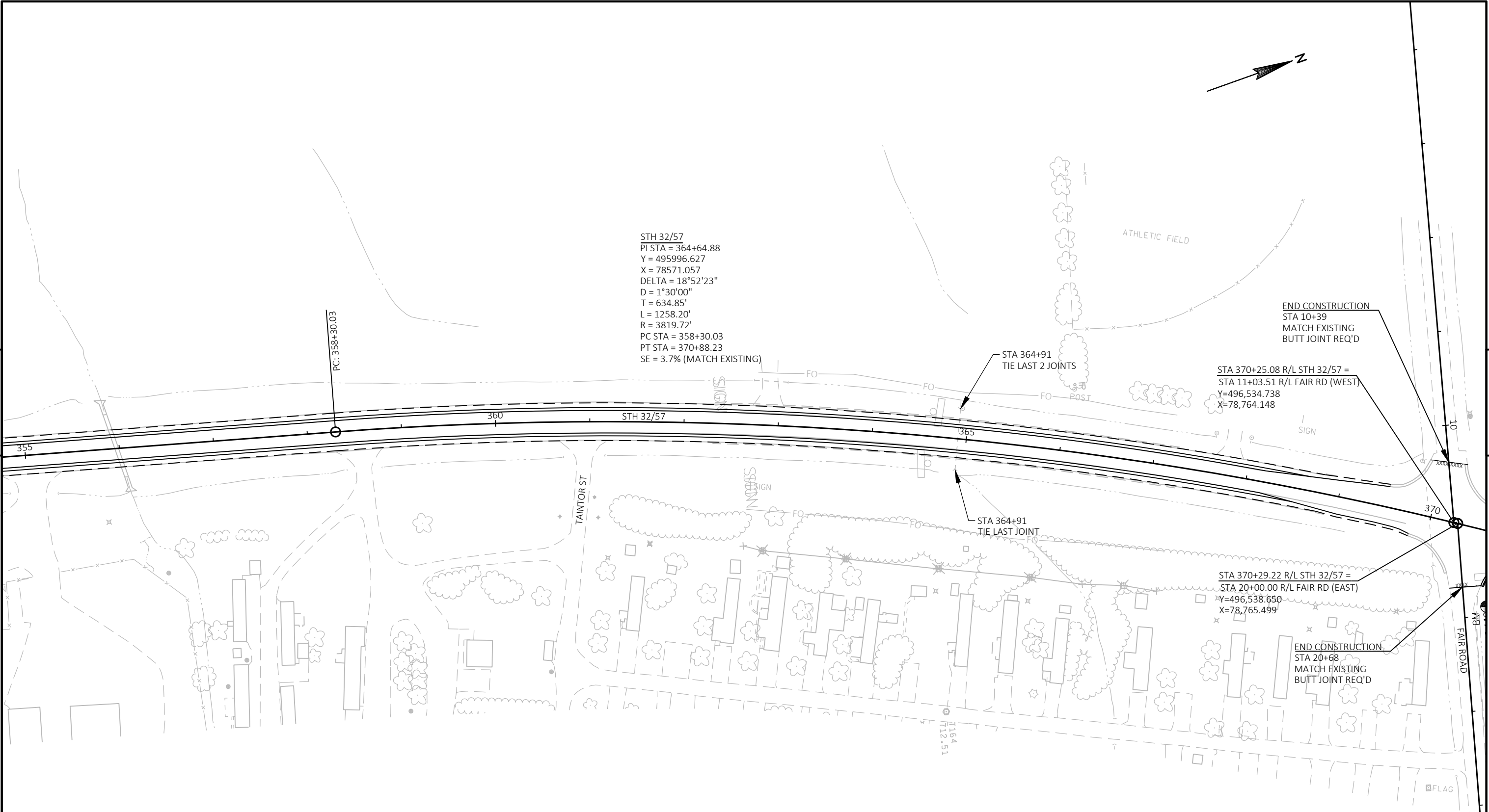
PI: 52+17.21

STH 32/57
PI STA = 344+45.97
Y = 493978.173
X = 78551.763
DELTA = 7°35'46"
D = 28°38'52"
T = 13.28'
L = 26.52'
R = 200.00'
PC STA = 344+32.69
PT STA = 344+59.21

STH 96
PI STA = 50+96.17
Y = 493883.164
X = 78642.689
DELTA = 9°21'31"
D = 28°38'52"
T = 16.37'
L = 32.67'
R = 200.00'
PC STA = 50+79.80
PT STA = 51+12.46

EP: 53+95.69

5

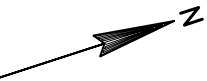


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LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
~>	SURFACE WATER FLOW

PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 618	716.14	60d NAIL IN PPOL # 2120-5E18, NE CORNER FAIR RD & STH 32/57



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END CONSTRUCTION
STA 10+39
MATCH EXISTING
BUTT JOINT REQ'D

PT: 370+88.23

REMOVE EXISTING CURB & GUTTER
SLOPE INTERCEPT
ASPHALTIC FLUME
CURB & GUTTER 6-INCH
SLOPED 36-INCH TYPE D (TYPICAL)

END CONSTRUCTION
STA 20+68
MATCH EXISTING
BUTT JOINT REQ'D

FLAG

SEP

SEP

POST

LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
~→	SURFACE WATER FLOW

PROJECT NO: 4085-33-71

HWY: STH 32

COUNTY: BROWN

PLAN

SHEET

E

FILE NAME : N:\PDS\C3D\40853300\SHEETS\PLAN\050201_PN.DWG
LAYOUT NAME - 050222-pn

PLOT DATE : 2/28/2019 8:33 AM

PLOT BY : LORENZ, KELSEY ANN

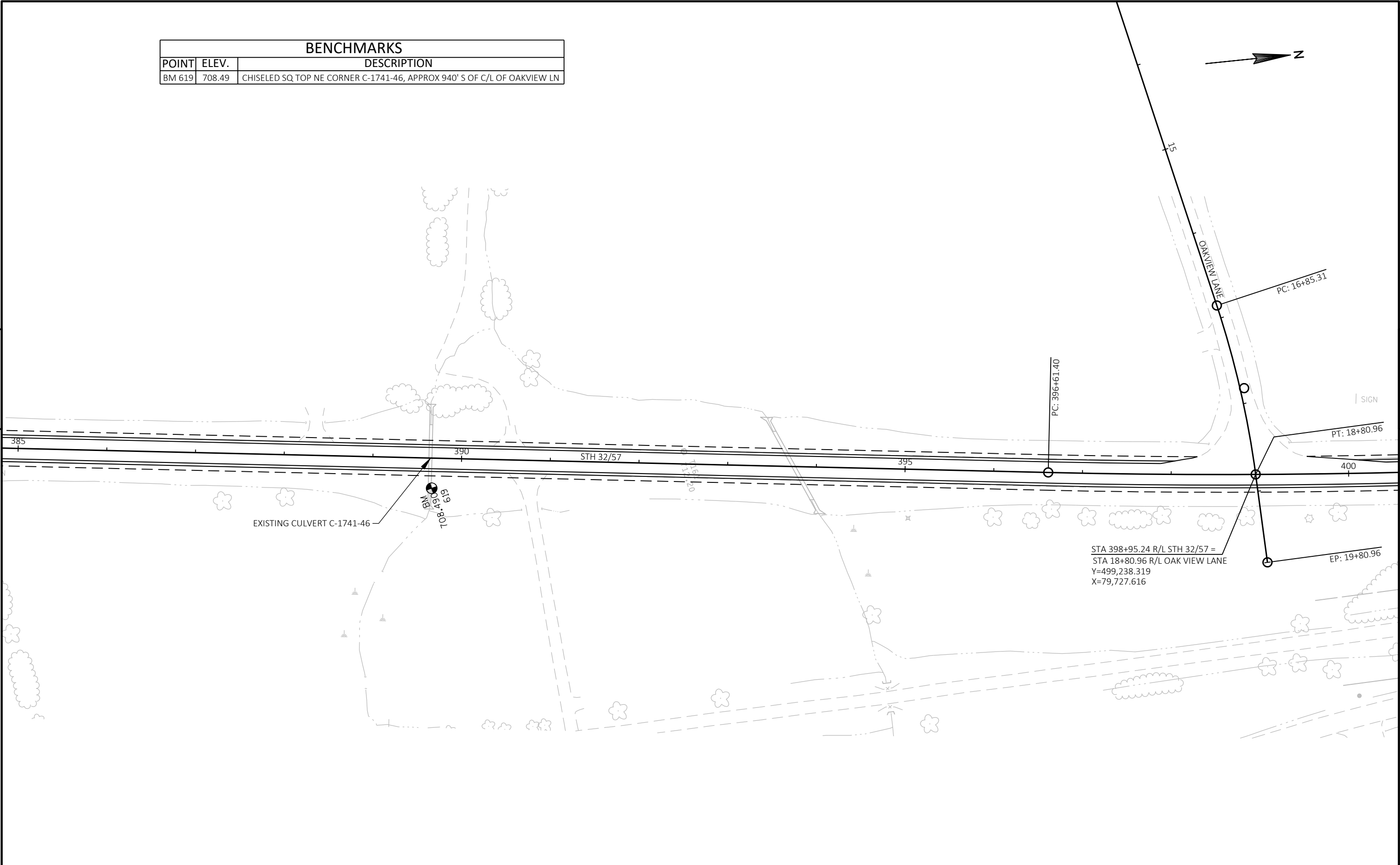
PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADD5 SHEET 44

BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 619	708.49	CHISELED SQ TOP NE CORNER C-1741-46, APPROX 940' S OF C/L OF OAKVIEW LN

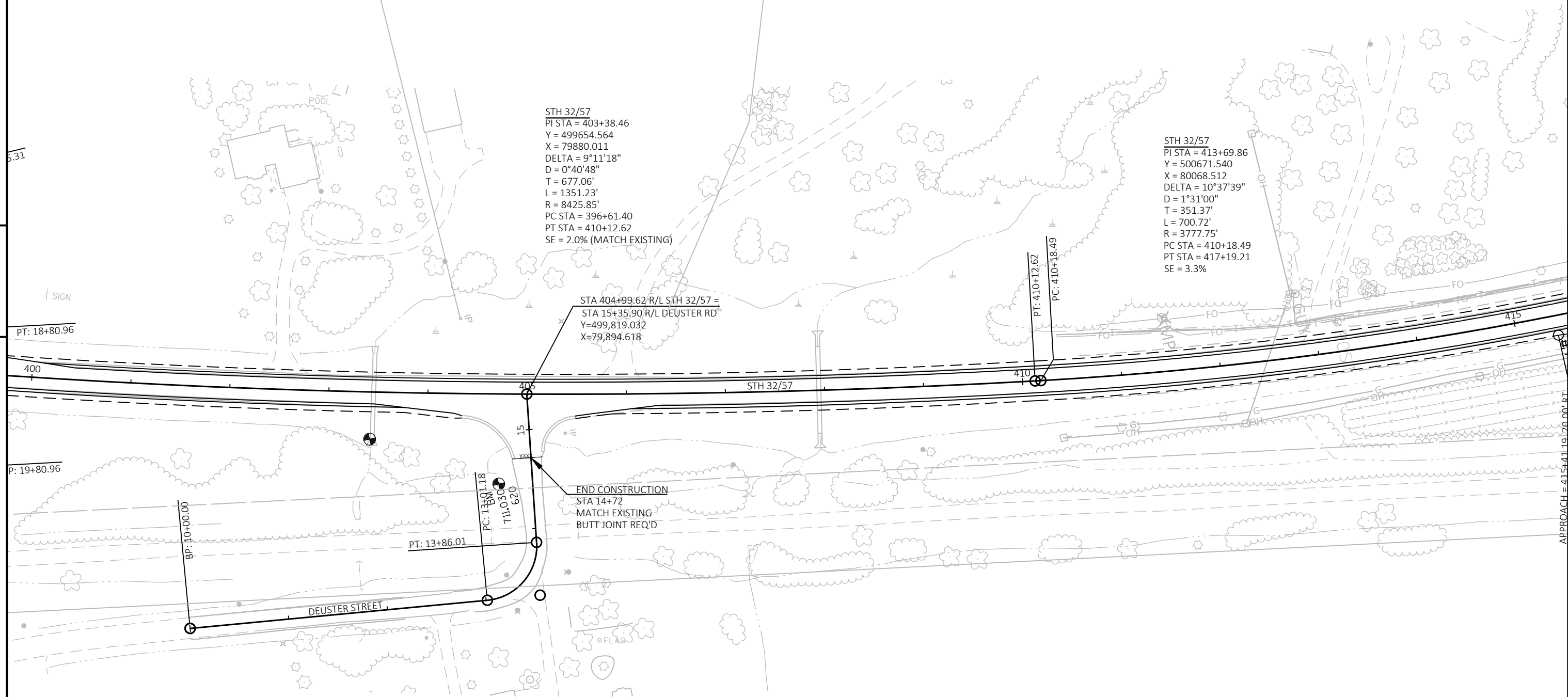
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PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	PLAN	SHEET	E
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BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 620	711.03	60d NAIL IN PPOL # 2220-32R5, SE CORNER DEUSTER ST & STH 32/57



PROJECT NO: 4085-33-71

HWY: STH 32

COUNTY: BROWN

PLAN

SHEET

E

FILE NAME : N:\PDS\C3D\40853300\SHEETS\PLAN\050201_PN.DWG
LAYOUT NAME - 050224-pn

PLOT DATE : 2/28/2019 8:33 AM

PLOT BY : LORENZ, KELSEY ANN

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

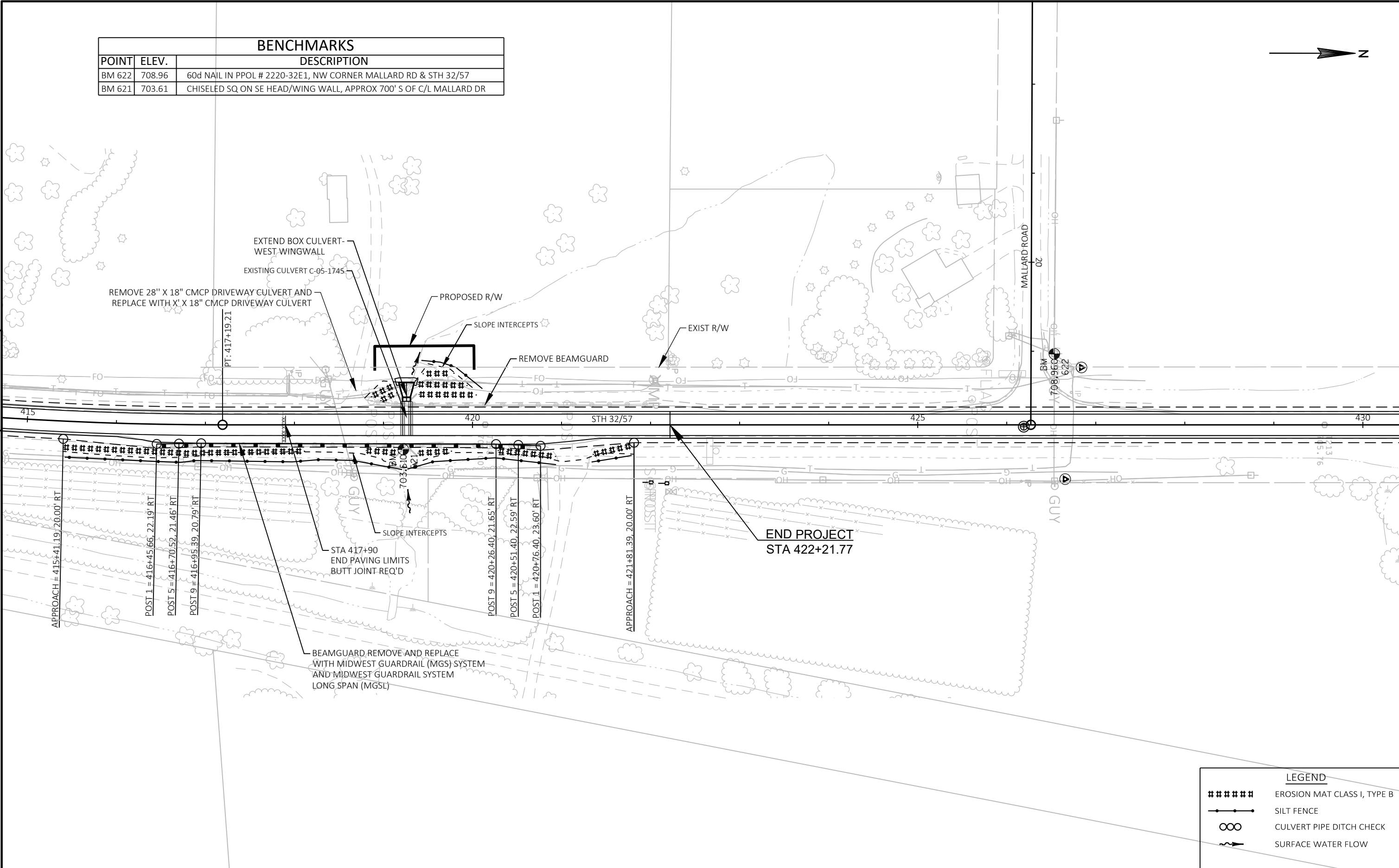
WISDOT/CADDs SHEET 44

BENCHMARKS		
POINT	ELEV.	DESCRIPTION
BM 622	708.96	60d NAIL IN PPOL # 2220-32E1, NW CORNER MALLARD RD & STH 32/57
BM 621	703.61	CHISELED SQ ON SE HEAD/WING WALL, APPROX 700' S OF C/L MALLARD DR



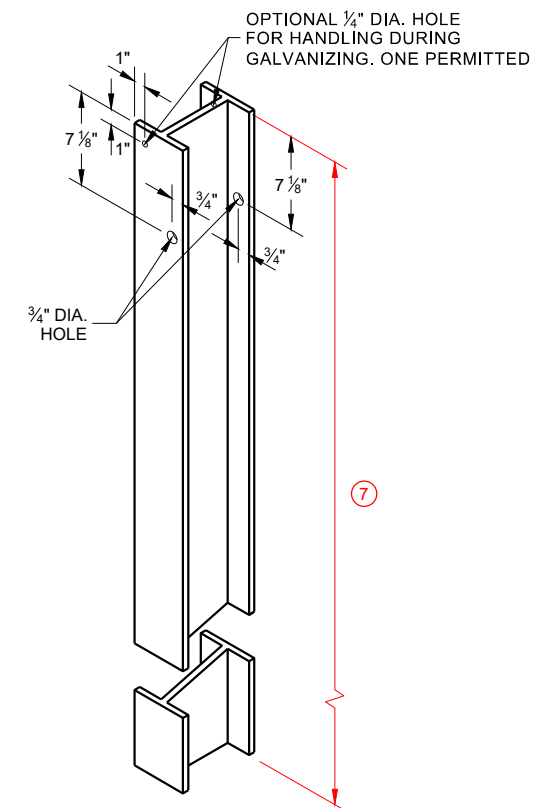
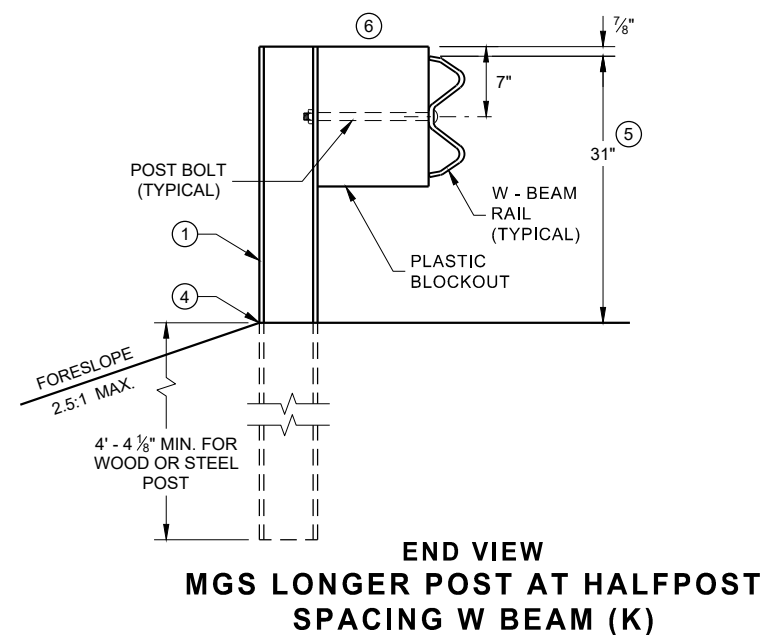
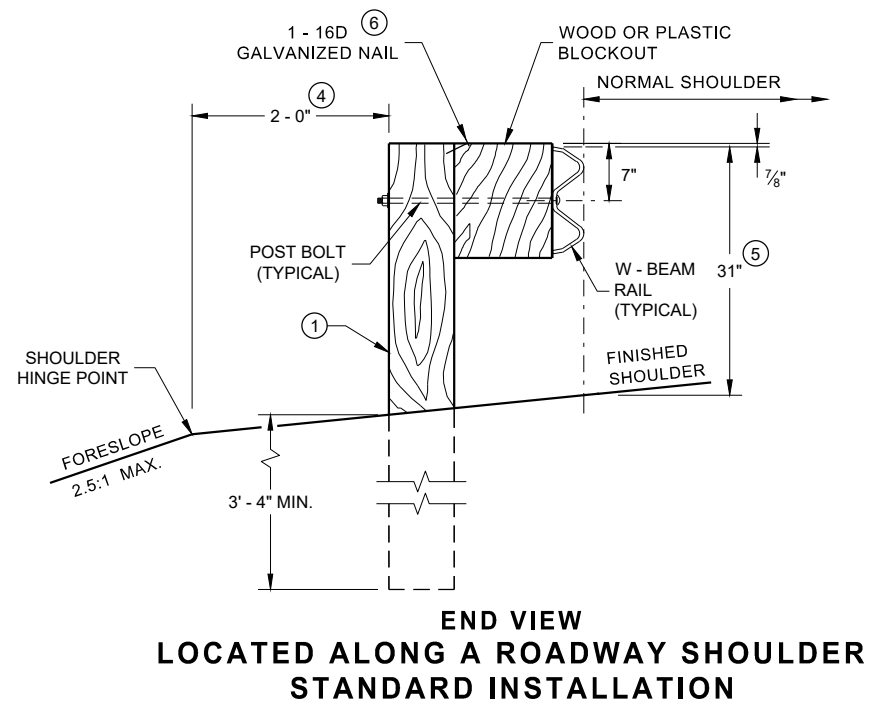
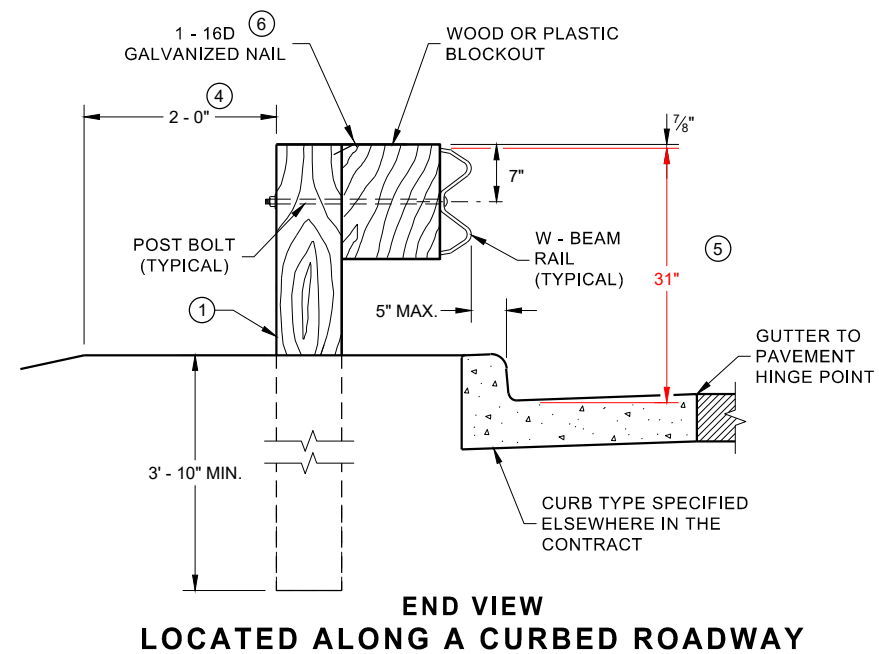
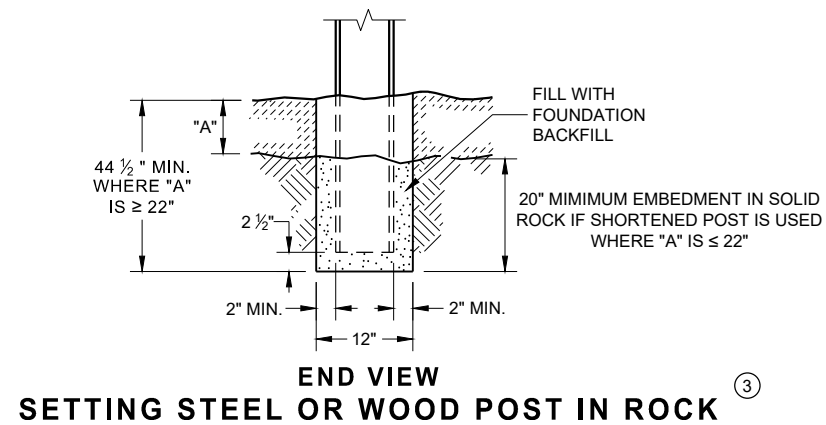
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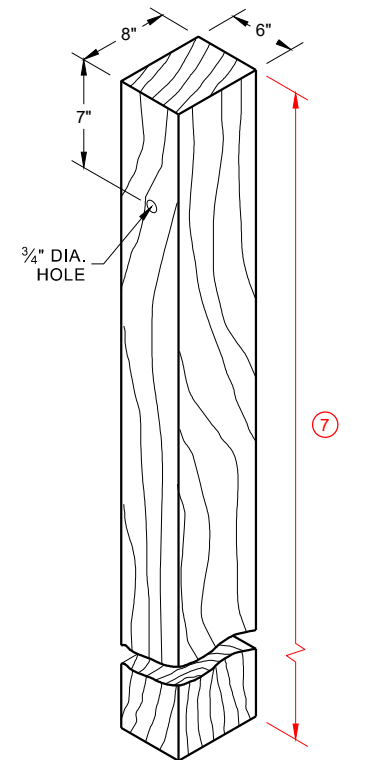
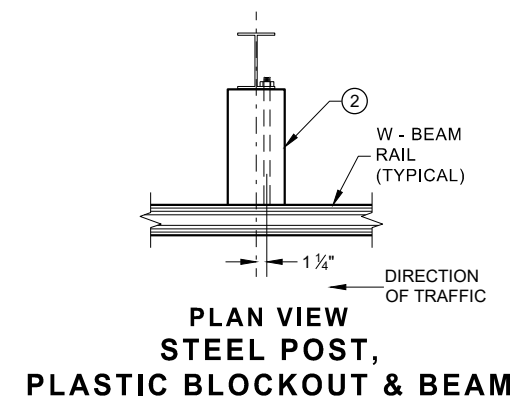
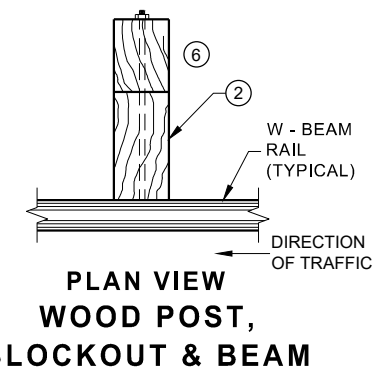


LEGEND	
#####	EROSION MAT CLASS I, TYPE B
—●—	SILT FENCE
∞	CULVERT PIPE DITCH CHECK
→	SURFACE WATER FLOW

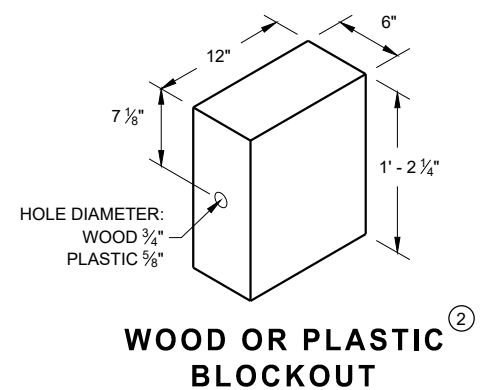
- ① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. 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 TO LENGTH AND 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 $\pm 1"$. FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 3/4" 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".



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

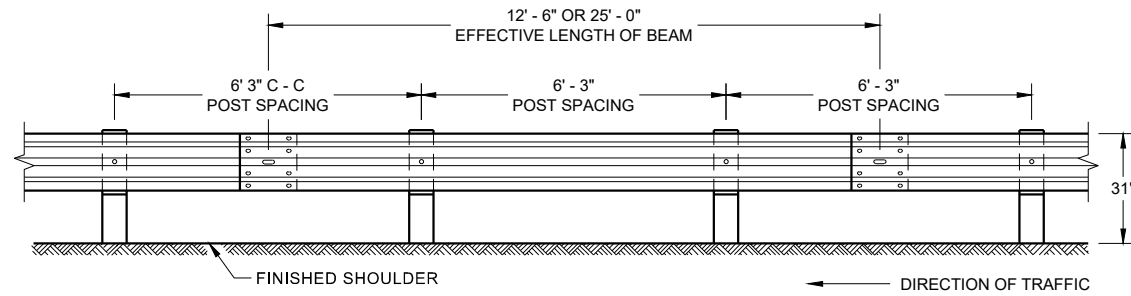


WOOD POST (6" X 8") NOMINAL ^①

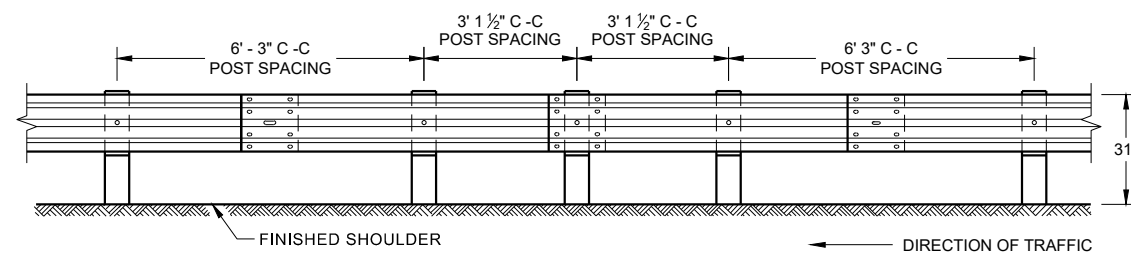


MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

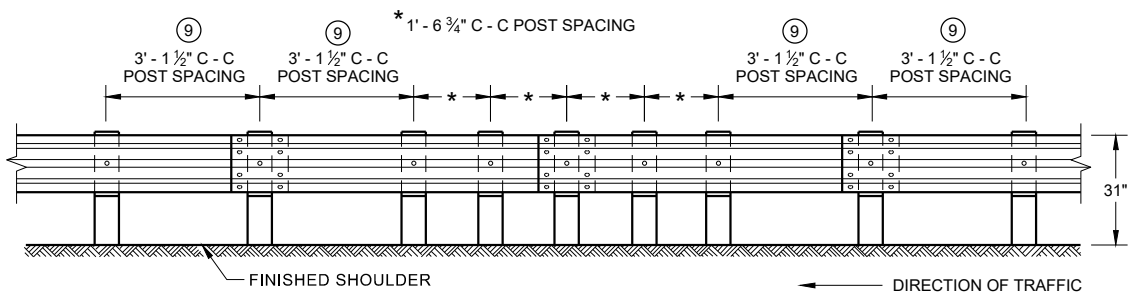
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



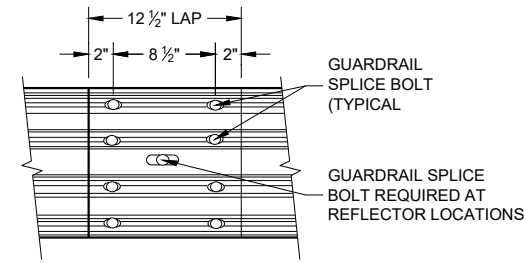
**FRONT VIEW
POST SPACING STANDARD INSTALLATION**



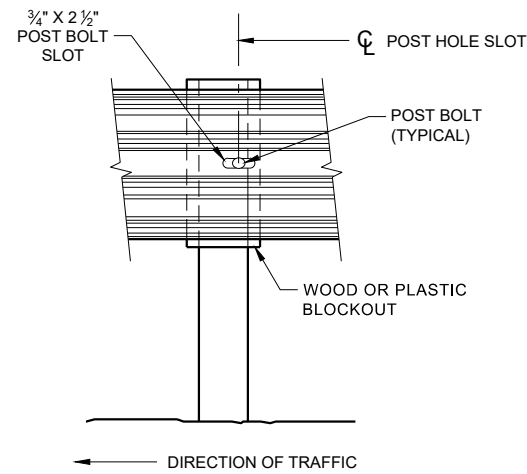
**FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)**



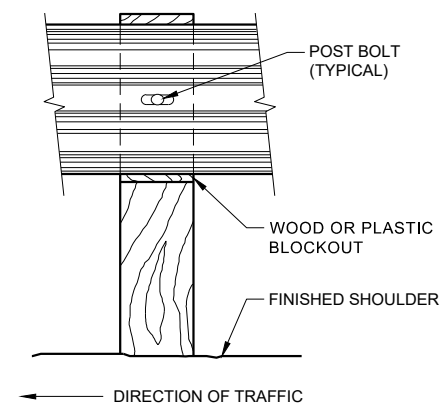
**FRONT VIEW
QUARTER POST SPACING (QS)**



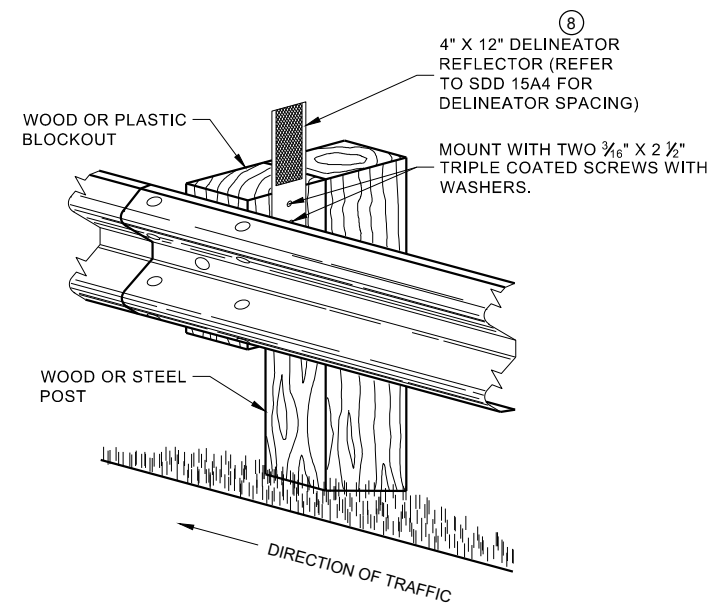
**FRONT VIEW
MID-SPAN BEAM SPLICE**



FRONT VIEW AT STEEL POST



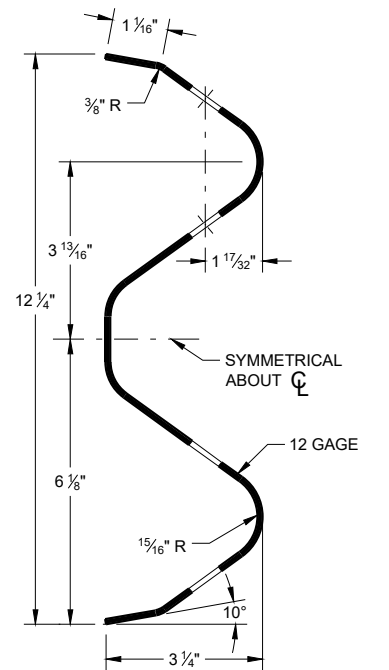
FRONT VIEW AT WOOD POST



**ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION**

GENERAL NOTES

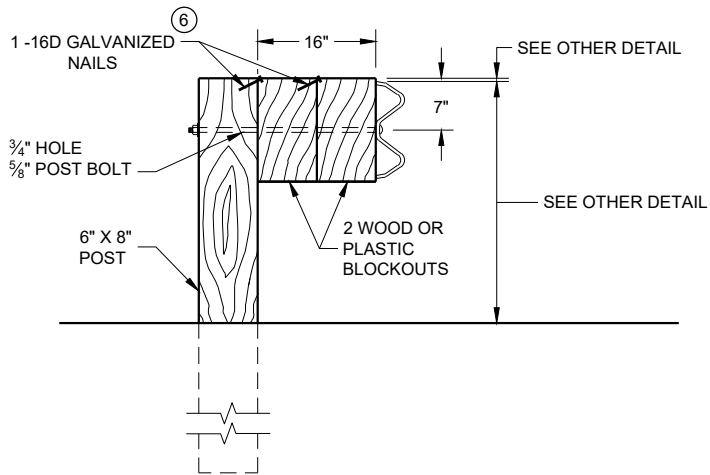
- ⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
 - ⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.
- POST BOLTS ARE A 3/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 3/4" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 3/4" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.
- GUARD RAIL SPLICE BOLTS ARE A 3/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 3/4" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



SECTION THRU W-BEAM RAIL

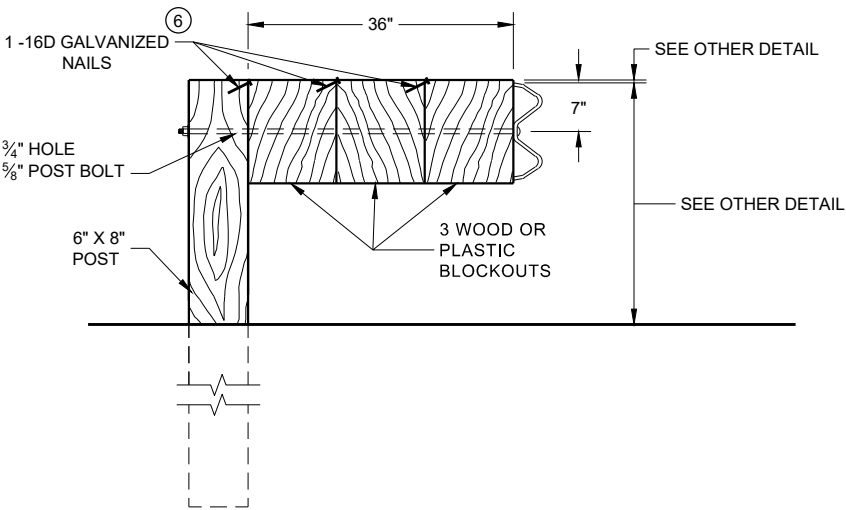
**MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAIL FOR 16" BLOCKOUT DEPTH

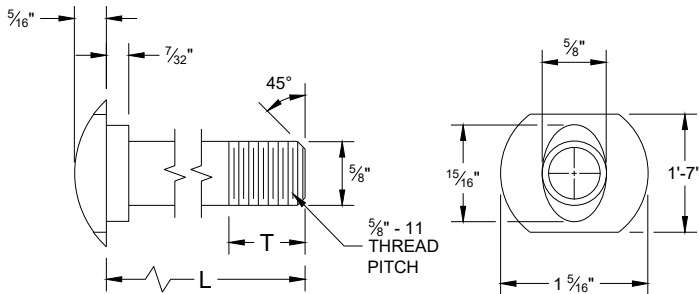
IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



DETAIL FOR 36" BLOCKOUT DEPTH

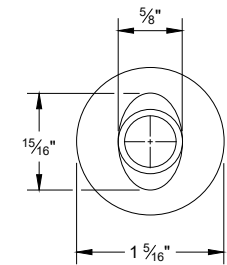
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

- NOTE:
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
 - 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

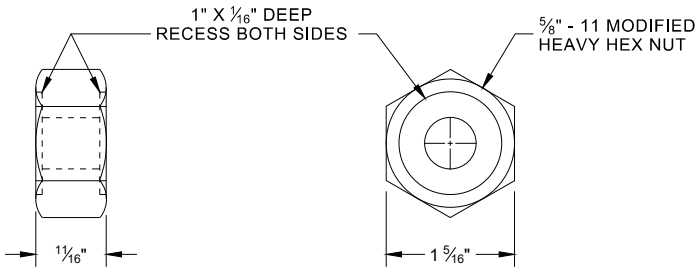


POST BOLT TABLE

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

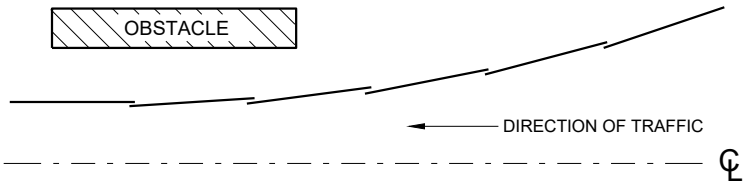


ALTERNATE BOLT HEAD

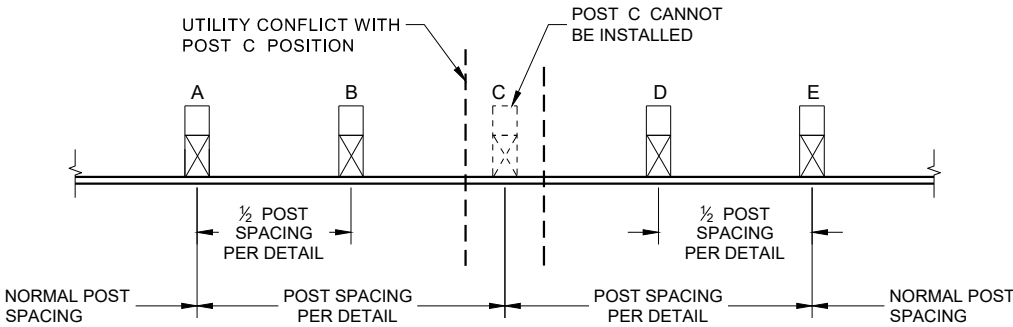


POST BOLT, SPLICE BOLT
AND RECESS NUT

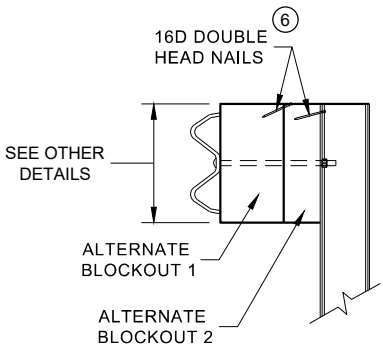
- 6 WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



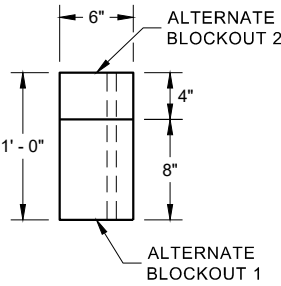
PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS
UNDERGROUND OBSTRUCTION



SIDE VIEW

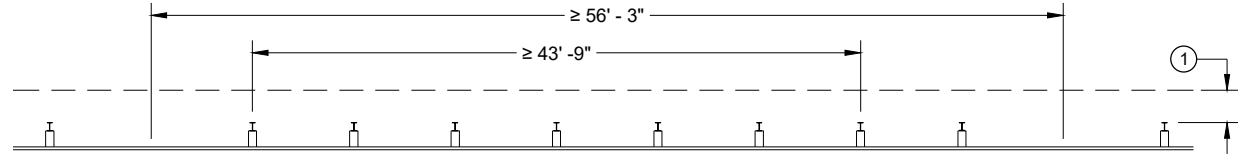


PLAN VIEW

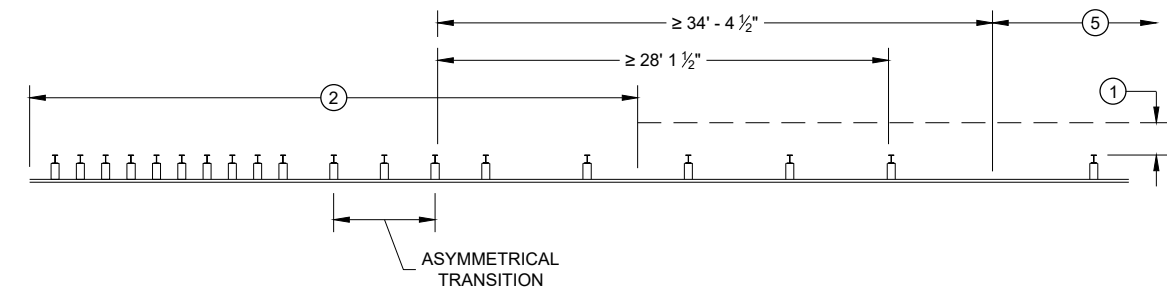
ALTERNATE WOOD
BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

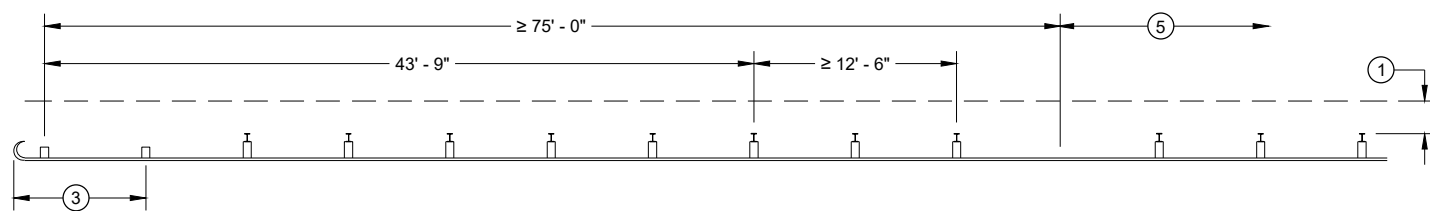
STATE OF WISCONSIN
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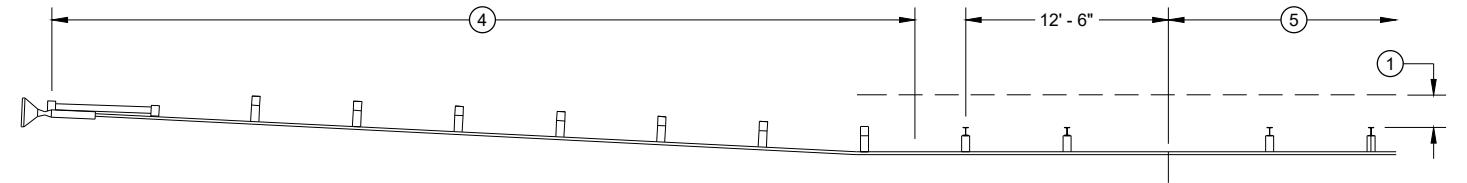
MISSING POST IN NORMAL BEAM GUARD RUN



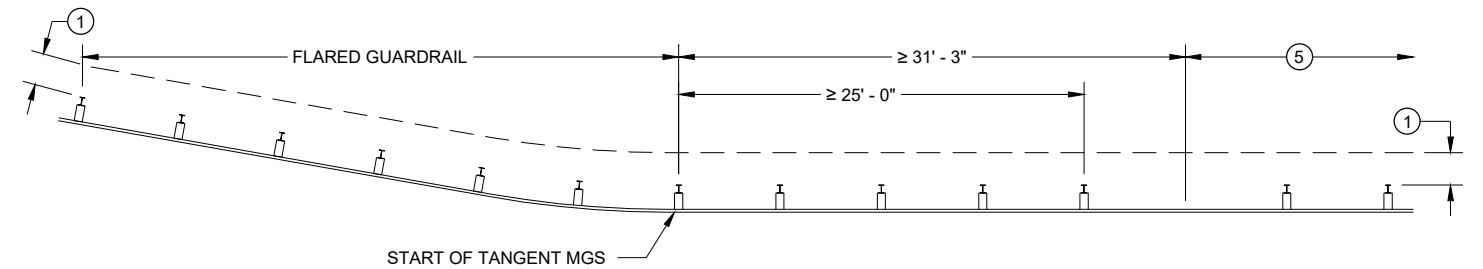
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



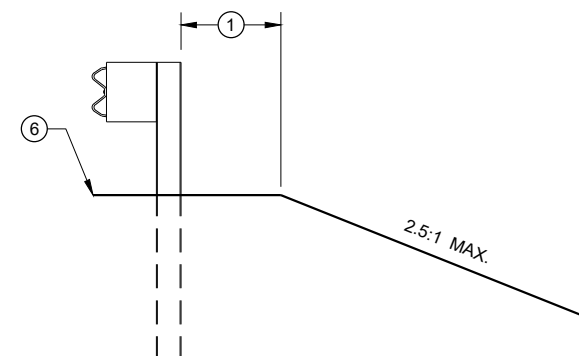
MISSING POST IN NORMAL BEAM GUARD RUN
NEAR TYPE 2 TERMINAL



MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR FLARED BEAM GUARD



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
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR
FHWA

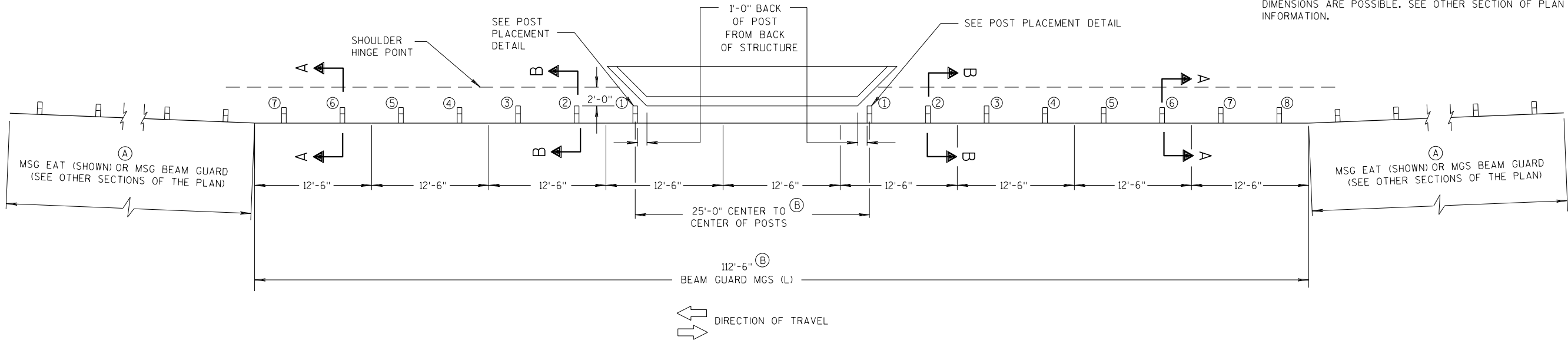
GENERAL NOTES

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

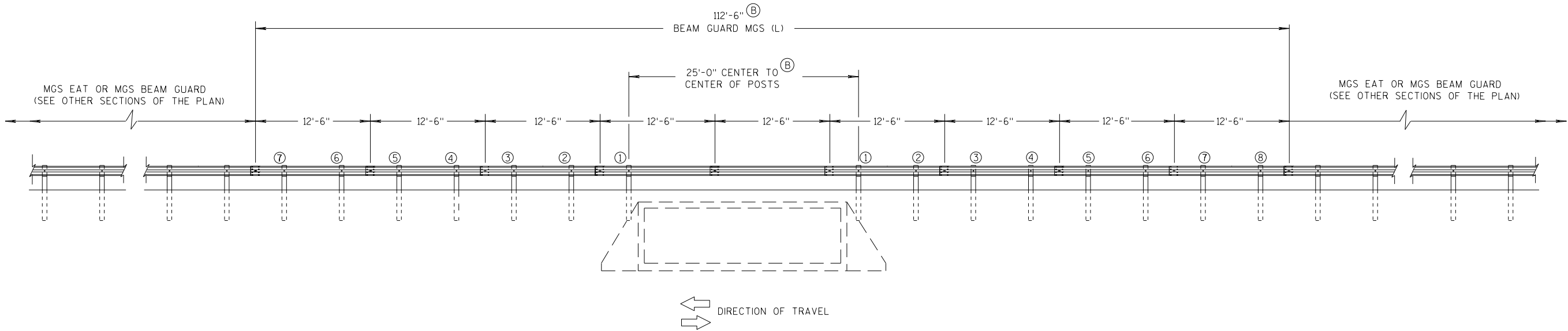
SEE SDD 14 B 42 FOR MORE DETAILS.

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

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



PLAN VIEW



ELEVATION VIEW

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

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

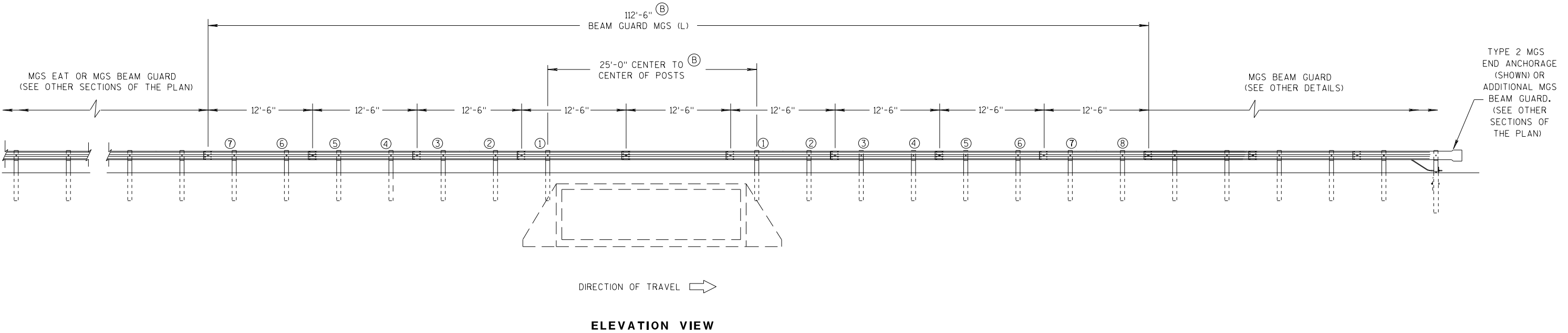
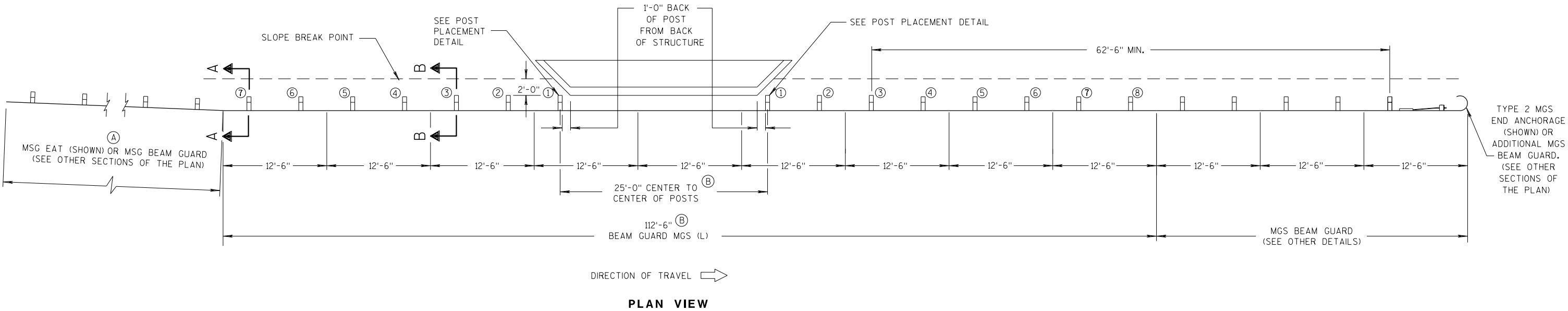
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

SEE SDD 14 B 42 FOR MORE DETAILS.

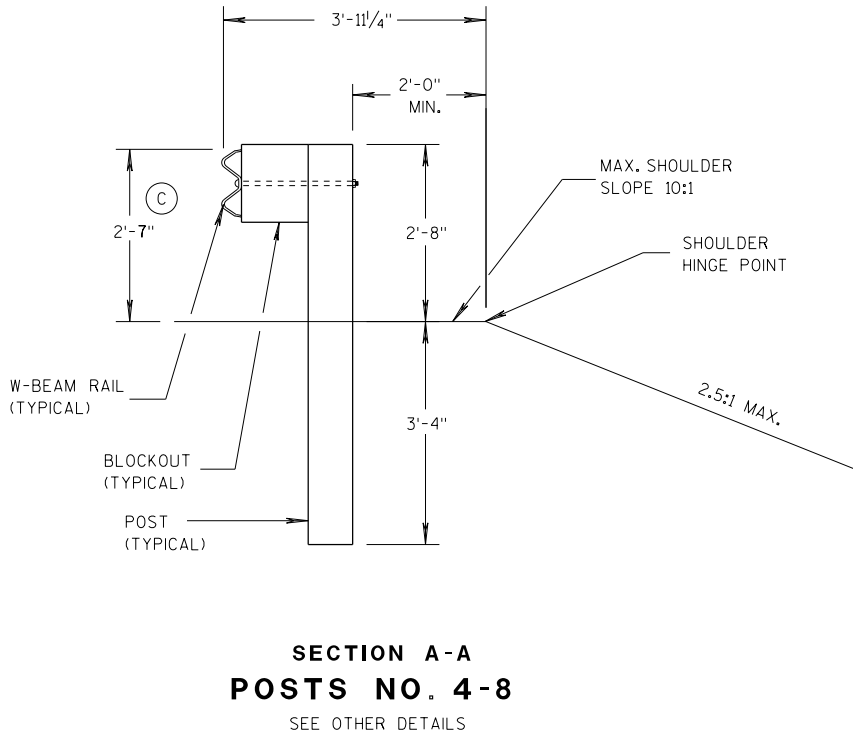
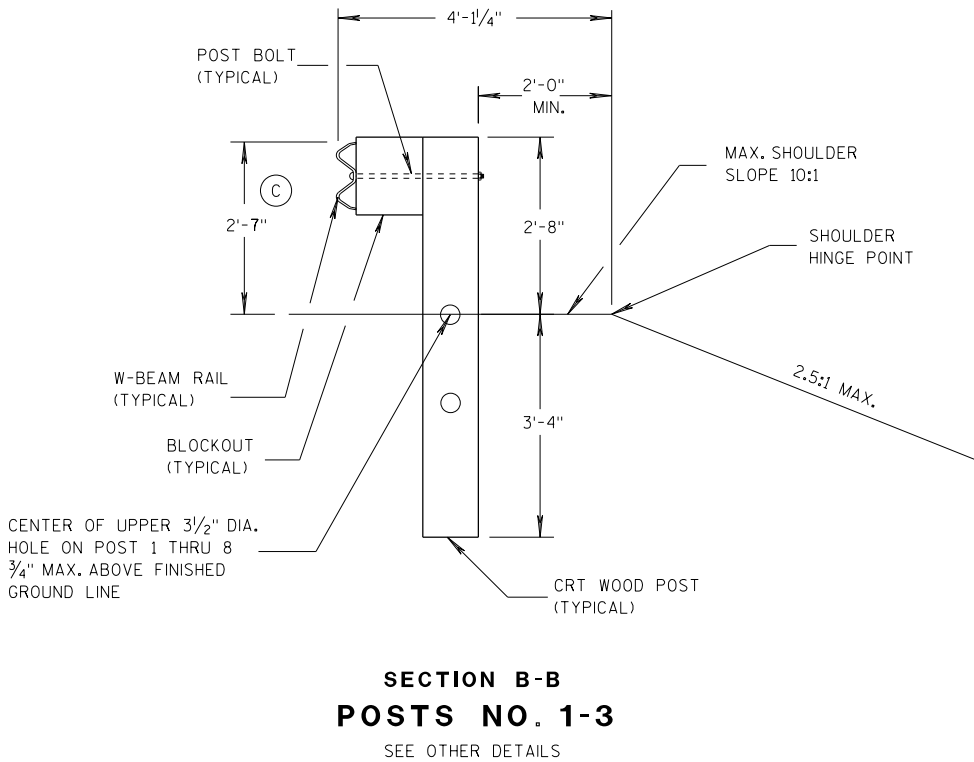
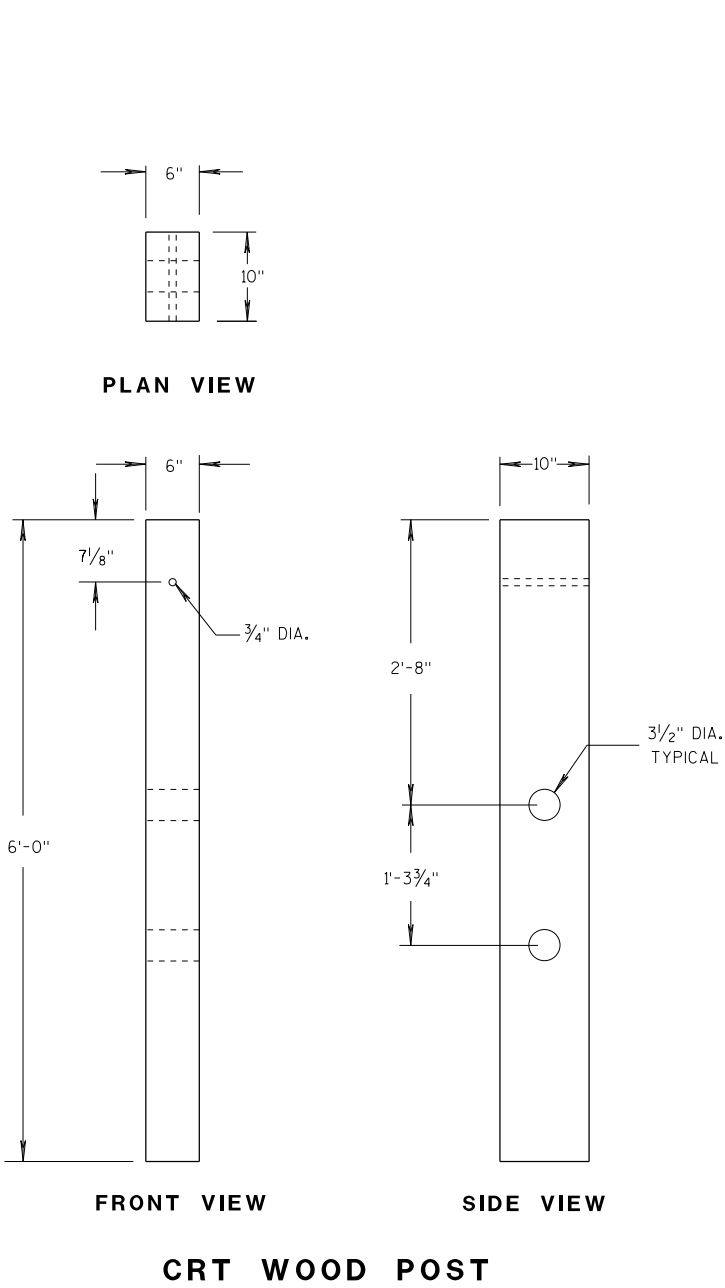
- (A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.
- (B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



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

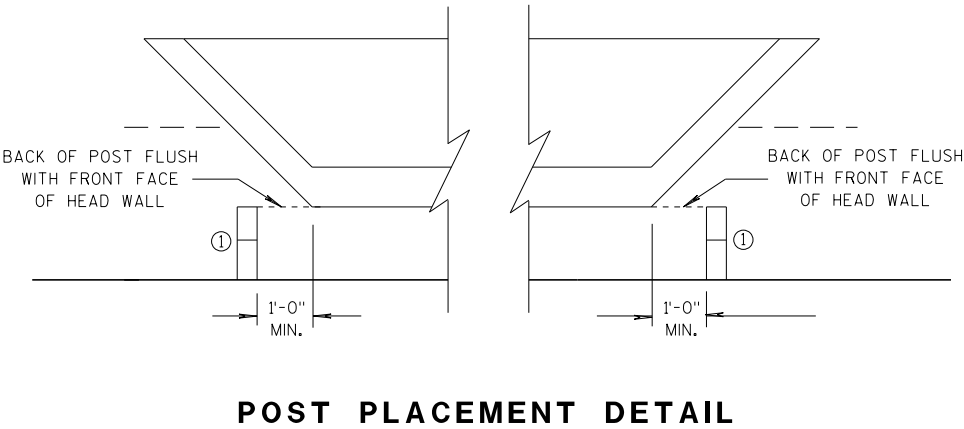
MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

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



MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 07/2018 DATE	/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

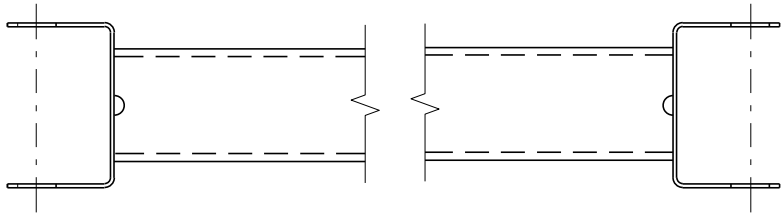
- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED
- (C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. 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.

THE CENTER OF THE UPPER 3 1/2" 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.

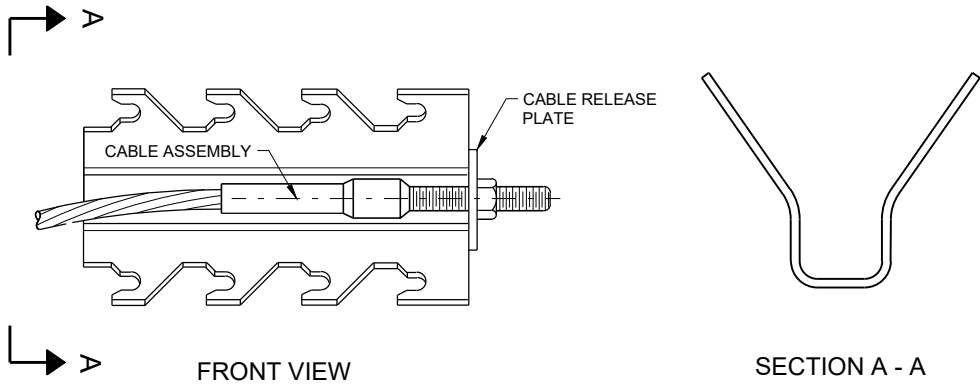


STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

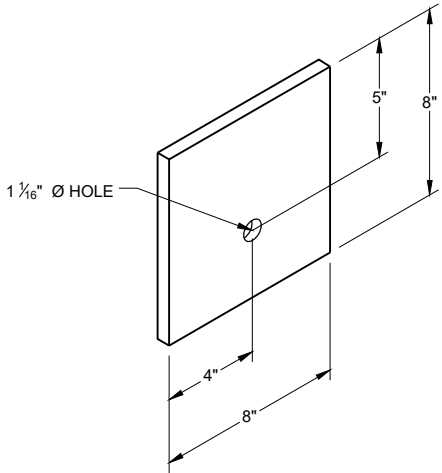


GENERIC GROUND STRUT⁹ ^E

BILL OF MATERIALS	
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'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



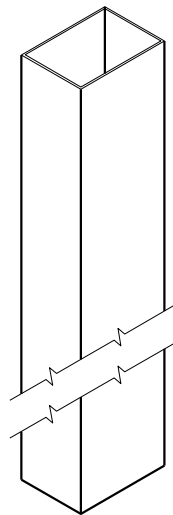
GENERIC ANCHOR CABLE BOX⁹ ^E



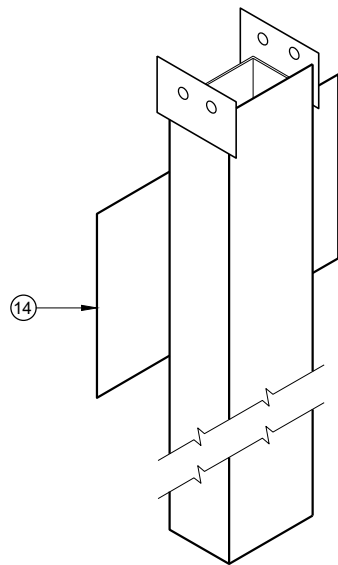
BEARING PLATE⁶ ^E

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

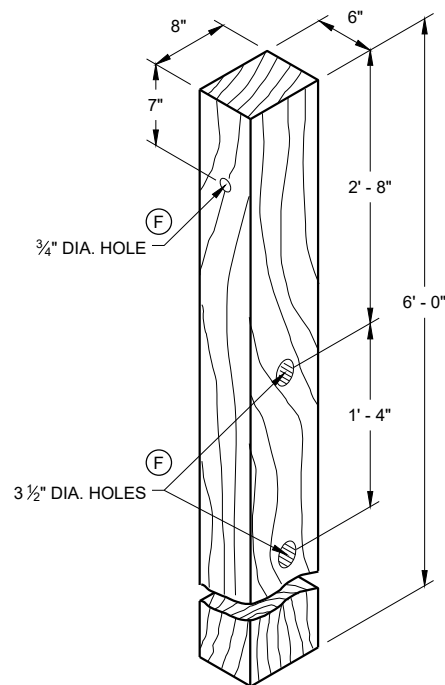
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



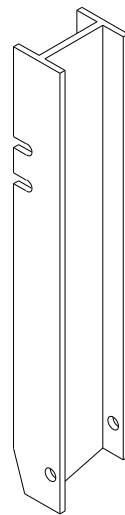
UPPER POST NO. 1^{(1) (E)}



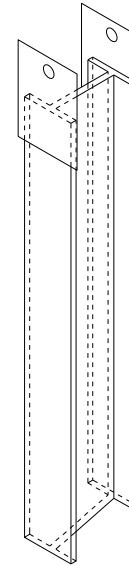
LOWER POST NO. 1^{(2) (E)}



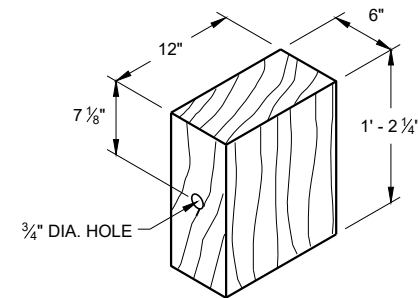
WOOD CRT POST^{(3) (E)}
POSTS NUMBER 3-9



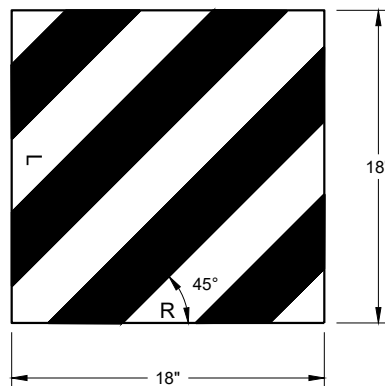
UPPER POST NO. 2^{(15) (E)}



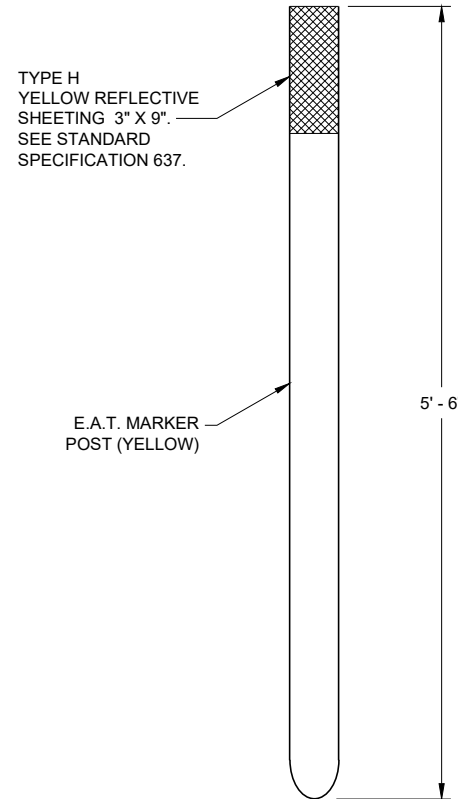
LOWER POST NO. 2^{(16) (E)}



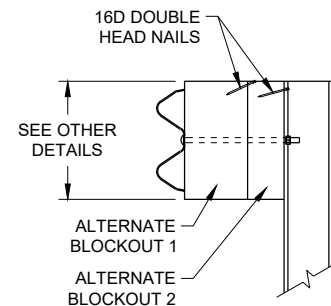
WOOD BLOCKOUT⁽⁴⁾
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



REFLECTIVE SHEETING DETAIL^(E)

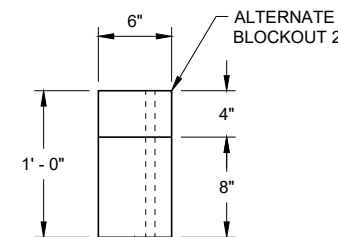


E.A.T. MARKER POST⁽¹³⁾



SIDE VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

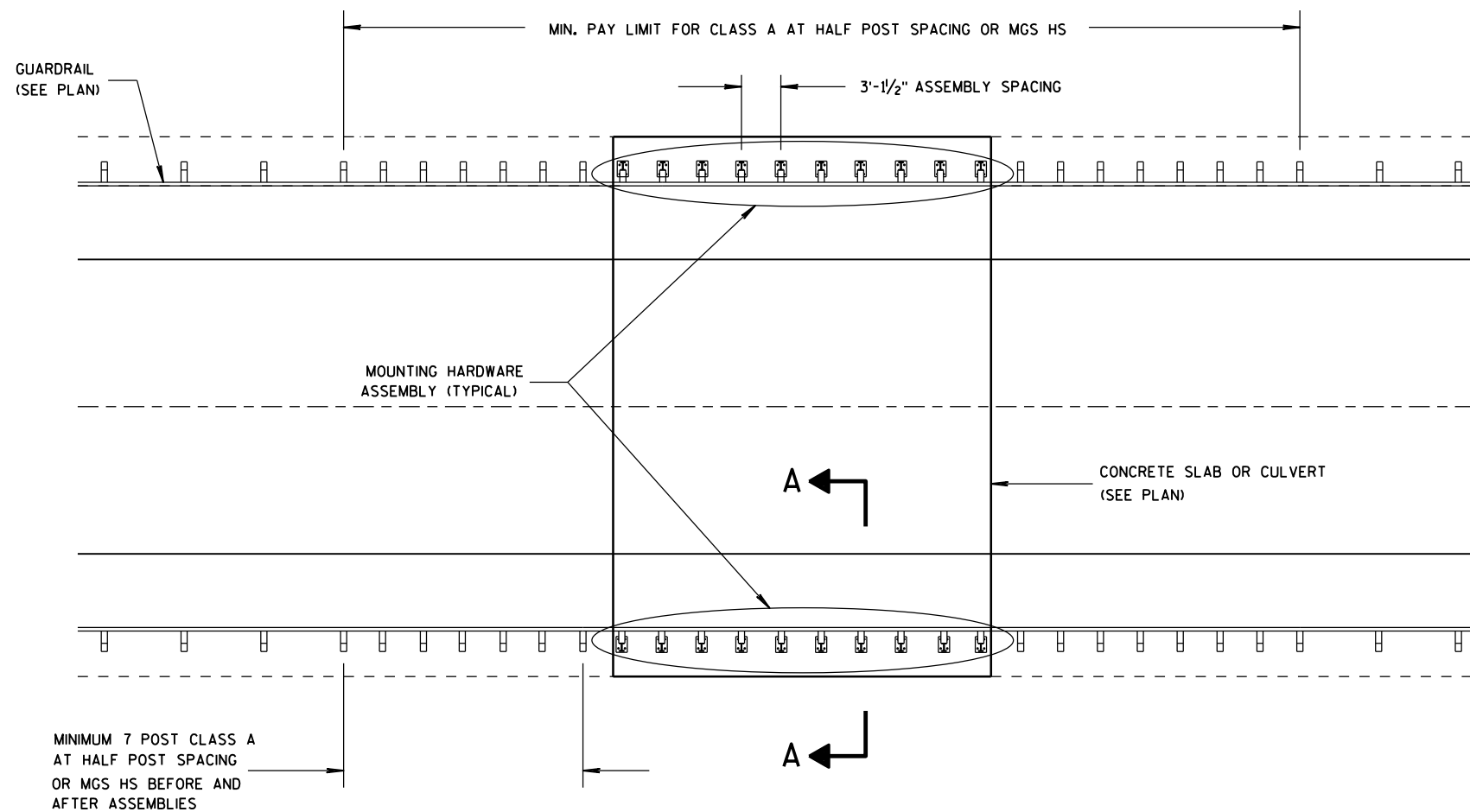


TOP VIEW

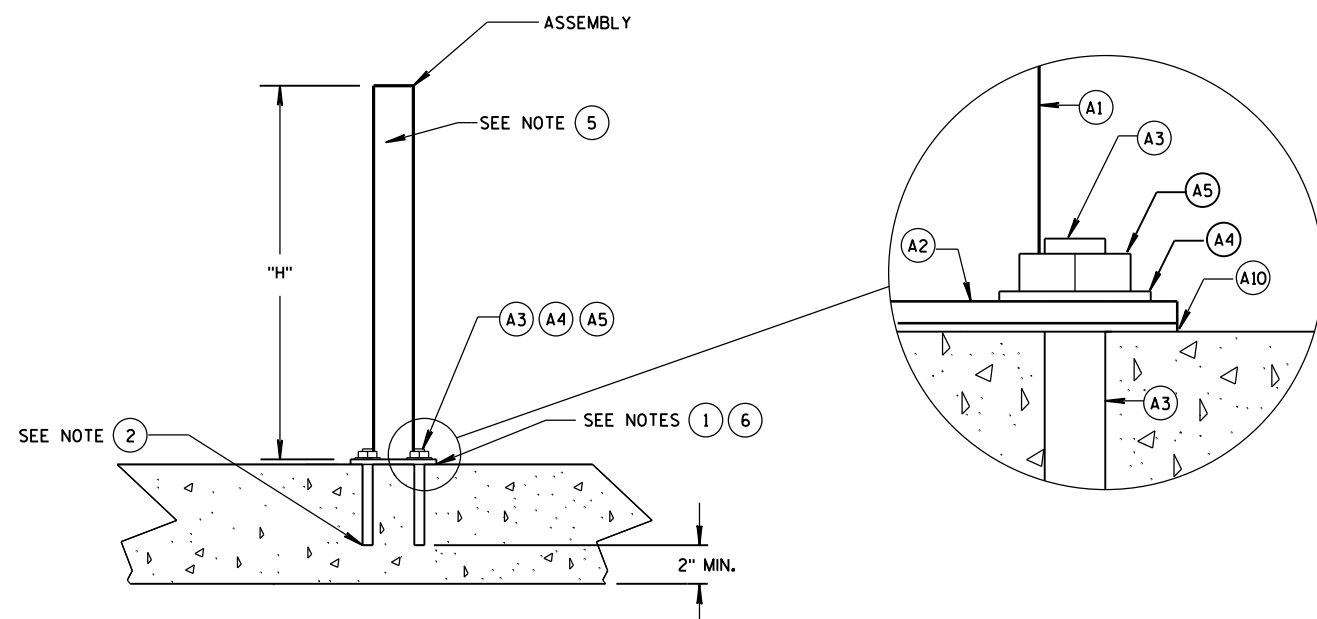
**MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR
FHWA

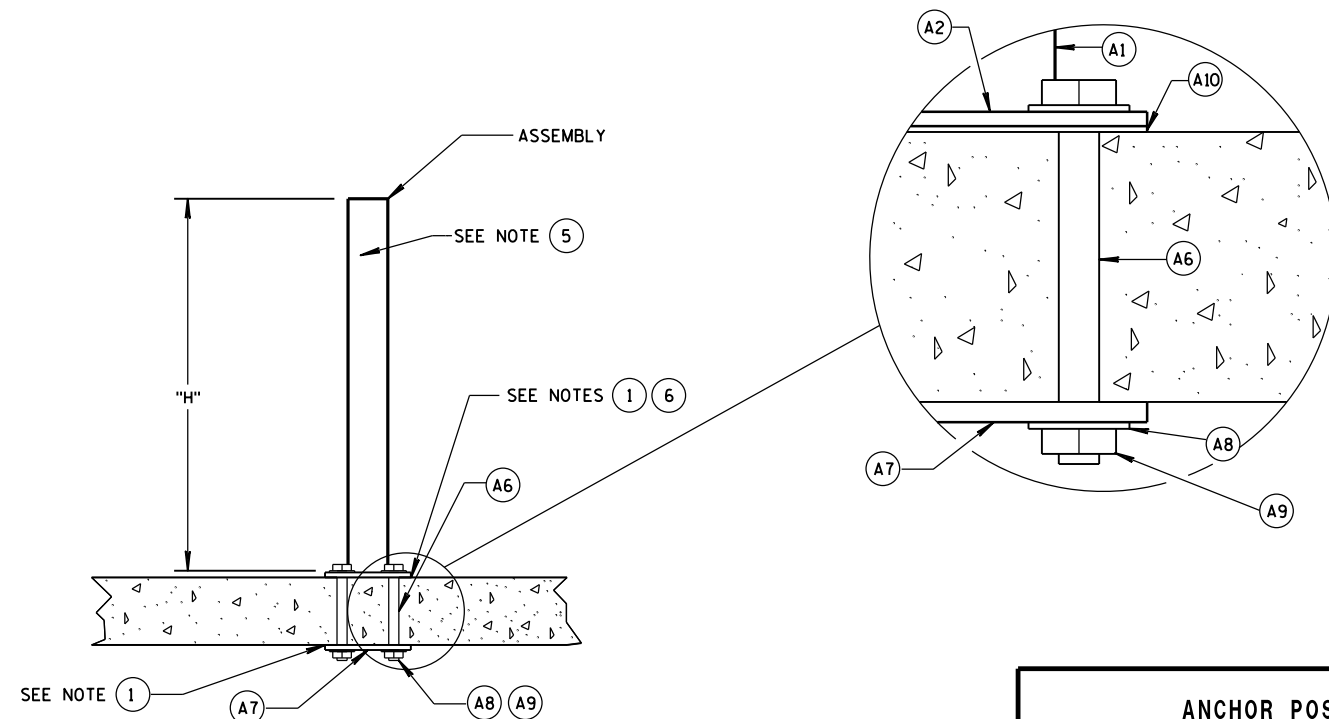


PLAN VIEW



ADHESIVE ANCHOR DETAIL

SEE NOTE (4)



BOLT THROUGH DETAIL

SEE NOTE (4)

GENERAL NOTES

HOLES DRILLED INTO CONCRETE SLAB OR CULVERT ARE 1/8-INCH DIAMETER.

POST BASE PLATE (AND BOTTOM PLATES IF USED) SHALL BE FLAT WITH ALL SURFACES SMOOTH, AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS. CUT BOTTOM OF POST SO THAT POST WILL BE VERTICAL WHEN POST ASSEMBLY IS PLACED ON TOP OF CONCRETE. HEX BOLTS AND THREADED RODS ARE TO BE PLACED PERPENDICULAR TO THE BASE PLATE.

"H" DIMENSION WILL VARY. SEE PLAN FOR "H" DIMENSION. CONTRACTOR HAS OPTION OF INSTALLING POSTS THAT ARE TALLER THAN "H" DIMENSION AND CUT POSTS TO PROPER "H" DIMENSION IN THE FIELD. IF ELECTING TO FIELD CUT POSTS, DRILL HOLES AT APPROPRIATE LOCATIONS AND APPLY GALVANIZATION.

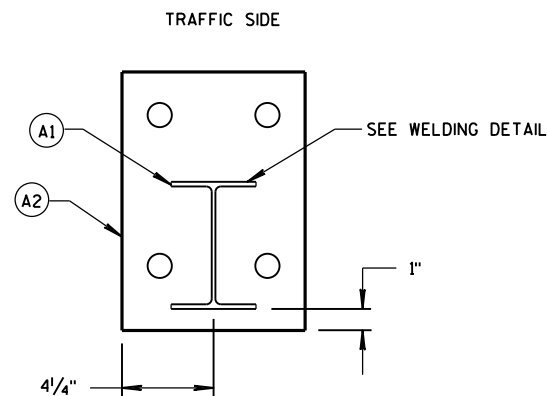
GALVANIZE STEEL COMPONENTS AFTER FABRICATION PER SECTION 614 OF THE WISCONSIN DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS.

INSTALL 1 NUT AND 1 WASHER WHERE APPLICABLE. PROVIDE SUFFICIENT LENGTH OF BOLT OR THREADED ROD TO ALLOW FOR 1/4-INCH TO 1/2-INCH OF THREAD TO BEYOND THE NUT.

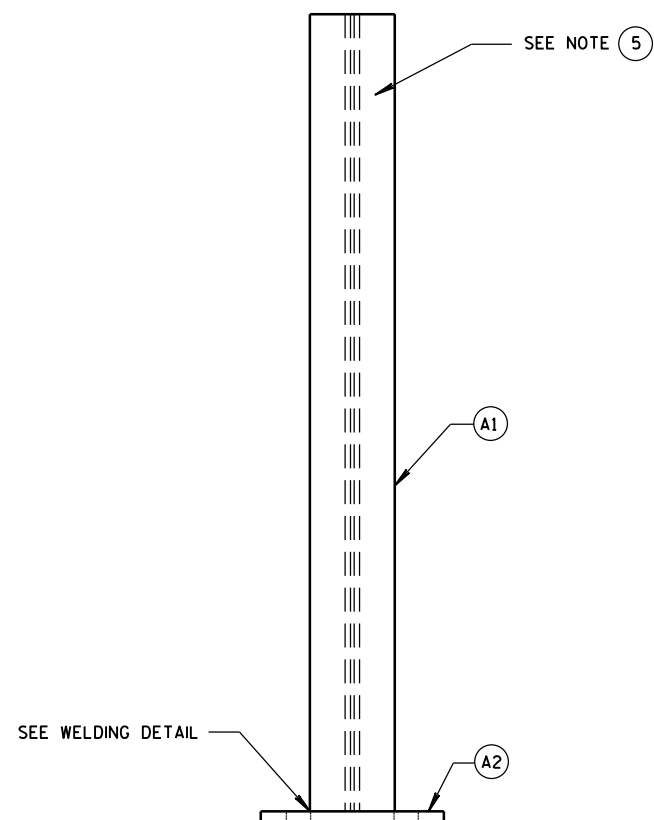
- ① PLACE NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER ON THE BOTTOM (A2) AND IN DRILL HOLES FOR BOLT THROUGH OPTION.
- ② BOND STRENGTH OF ADHESIVE IS 1,305 PSI OR GREATER WITH A MINIMUM EMBEDMENT DEPTH OF 8-INCHES. IF MINIMUM EMBEDMENT CANNOT BE ACHIEVED BOLT THROUGH STRUCTURE.
- ③ USE GAS-METAL ARC WELDING (GMAW) PROCESS WITH ER70S-3 WELDING WIRE AND ARGON-OXYGEN OR CO2 COVER GAS.
- ④ OTHER COMPONENT OF BARRIER SYSTEM NOT SHOWN. SEE OTHER STANDARD DETAIL DRAWINGS. SEE SDD 14 B 15 OR SDD 14 B 42 FOR MORE DETAILS.
- ⑤ HOLES TO MOUNT BEAM GUARD AND BLOCK NOT SHOWN ON DRAWINGS. SEE OTHER STANDARD DETAIL DRAWINGS. SEE SDD 14 B 15 OR SDD 14 B 42 FOR MORE DETAILS.
- ⑥ ADD AND ADJUST SHIM PLATES AS NECESSARY TO INSTALL POST PLUMB. SEE (A10) FOR DETAIL.

ANCHOR POST
ASSEMBLY TOP-MOUNTED

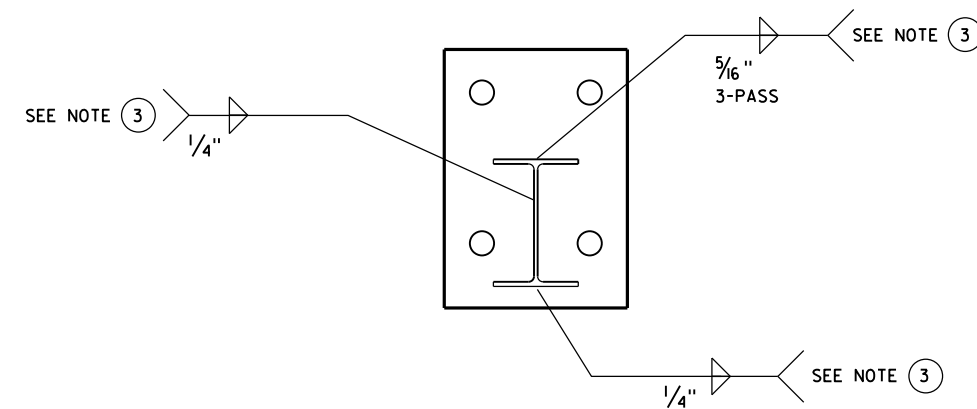
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



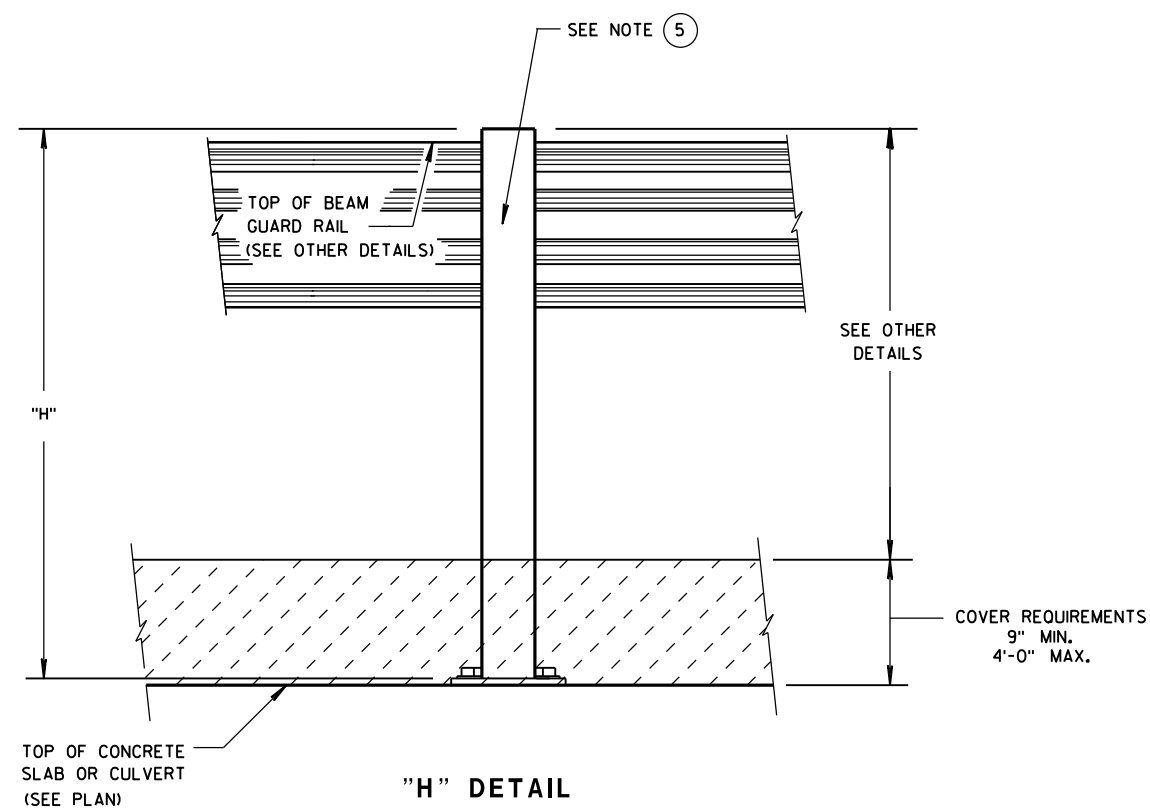
PLAN VIEW OF ASSEMBLY



PROFILE VIEW OF ASSEMBLY

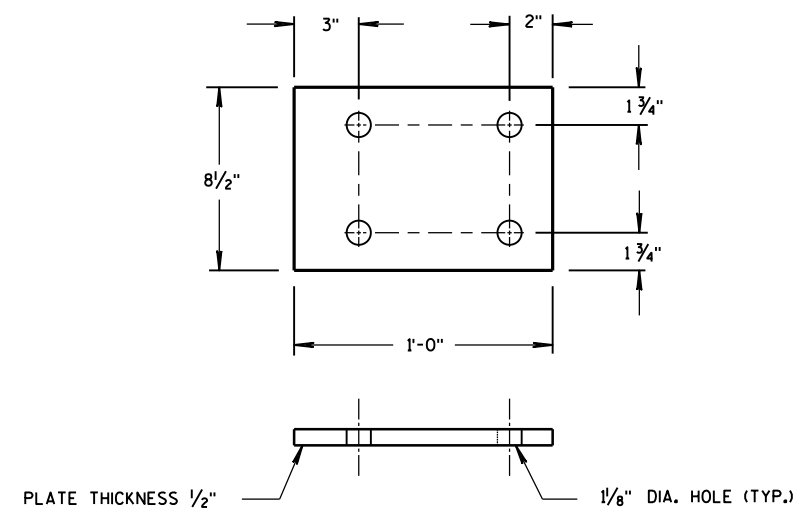


WELDING DETAIL

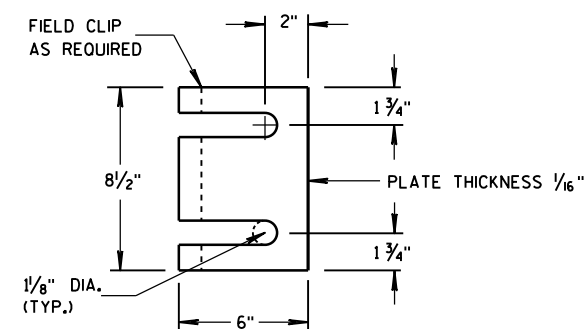


"H" DETAIL

SEE NOTE ④



A2 DETAILS



A10 DETAILS

ANCHOR POST
ASSEMBLY TOP-MOUNTEDSTATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

MATERIALS LIST

ITEM	DESCRIPTION	MATERIAL SPECIFICATIONS	NOTES
(A1)	W6x9 or W6x8.5	ASTM A992, 50 KSI MIN. ASTM A709 GRADE 50 OR ASTM A36	SEE SDD 14B15 OR 14B42 LENGTH WILL VARY
(A2)	STEEL BASE PLATE	ASTM A992 50 KSI MIN., ASTM A529 GRADE 50, ASTM A572 GRADE 50, OR ASTM A36	
(A3)	1" DIA. THREADED ROD	SAE J429 GRADE 2, ASTM A307 GRADE C, OR ASTM F1554 GRADE 36	LENGTH WILL VARY
(A4)	1" DIA. FLAT WASHER	ASTM F844	
(A5)	1" HEX NUT	ASTM A563A	
(A6)	1" DIA. HEX BOLT	ASTM A307	LENGTH WILL VARY
(A7)	PLATE WASHER	ASTM A992 50 KSI MIN., ASTM A529 GRADE 50, ASTM A572 GRADE 50, OR ASTM A36	
(A8)	1" DIA. FLAT WASHER	ASTM F844	
(A9)	1" DIA. HEX NUT	ASTM A563A	
(A10)	SHIM PLATE	SEE (A2)	4 MAX PER POST

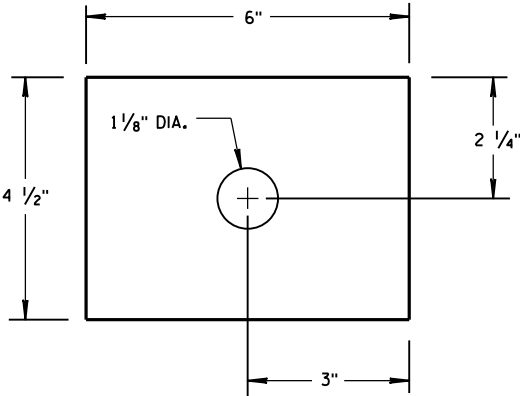
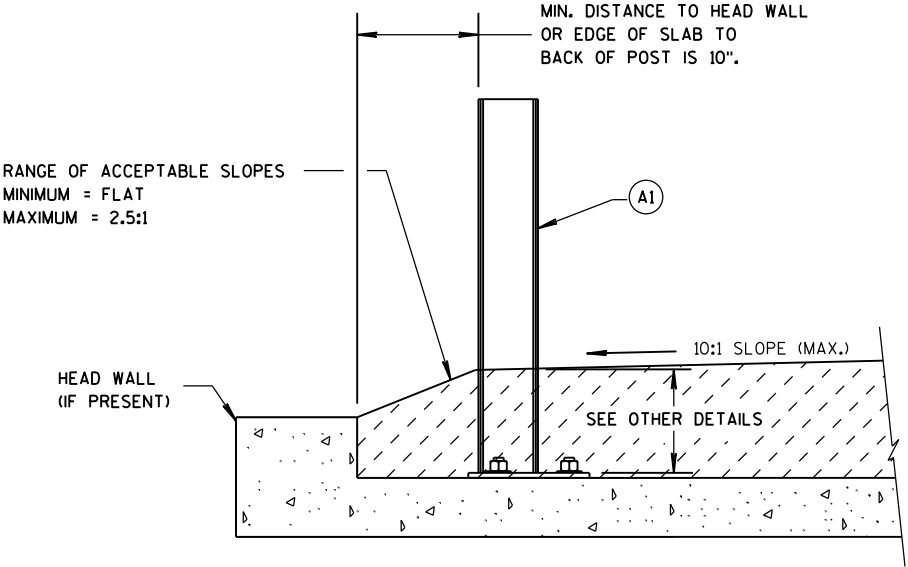
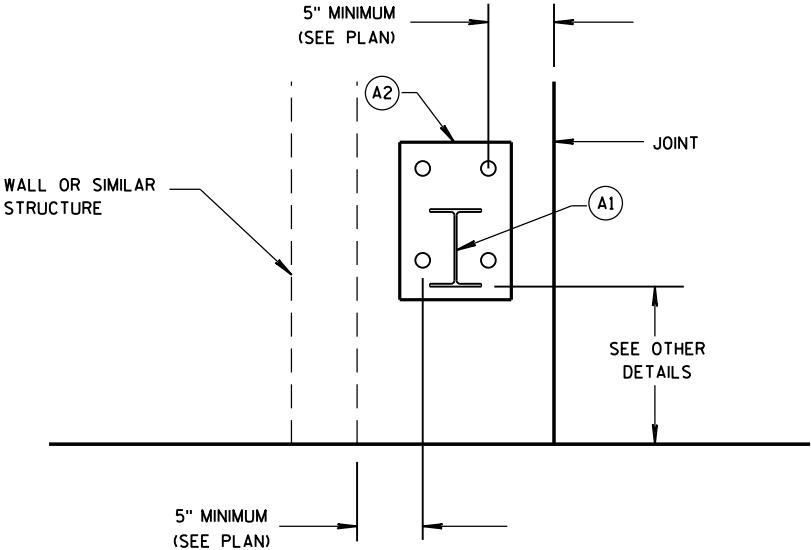


PLATE WASHER - (A7)



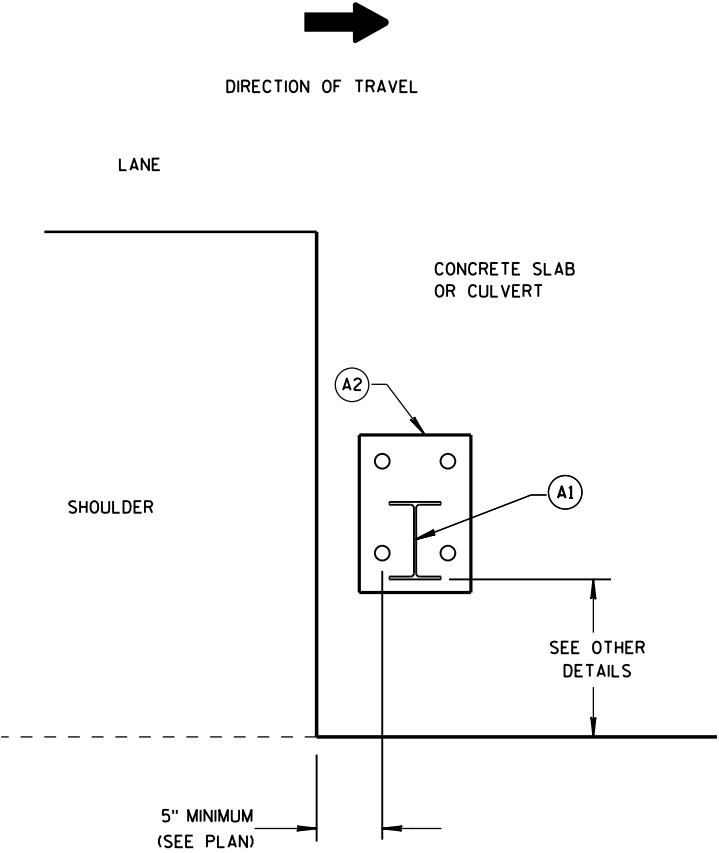
SECTION A-A

SEE NOTE (4)



OBSTRUCTION AND JOINT PLACEMENT

SEE NOTE (4)



EDGE PLACEMENT

SEE NOTE (4)

ANCHOR POST
ASSEMBLY TOP-MOUNTED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

- ▲ SEE CORNER DETAILS ON "DETAILS" SHEET (TYP.)
- NAME PLATE LOCATION (SEE "DETAILS" SHEET)
- ✱ BUILD APRON AND END OF BOX LEVEL
- INDICATES WING NUMBER
- △ EXIST. BARREL TO REMAIN IN PLACE
- ▣ INSIDE WALLS TO MATCH EXISTING (TYP.)
- ☒ REMOVE EXISTING APRON AND WINGS.
- ADHESIVE ANCHORS NO. 5 BARS, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND BOTTOM SLAB)

PRELIMINARY PLAN

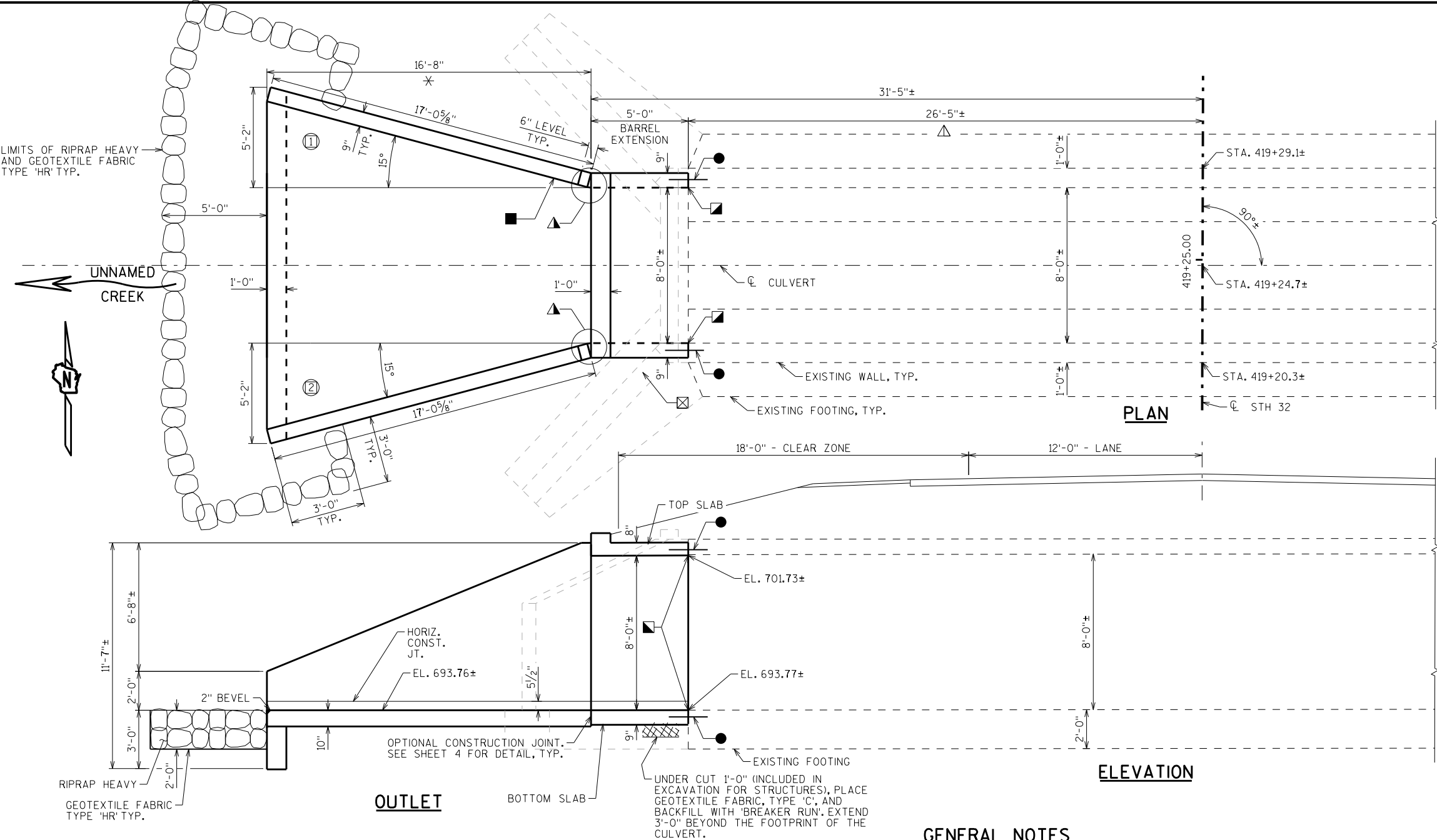
LIST OF DRAWINGS

1. CULVERT EXTENSION

STRUCTURE DESIGN CONTACTS:

MICHAEL LARSON (608) 267-4539
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY
BUREAU OF STRUCTURES 8			
ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER DATE _____			
STRUCTURE C-5-1745			
STH 32 OVER UNNAMED CREEK			
COUNTY	BROWN	TOWN	ROCKLAND
DESIGN SPEC.	N/A	REHABILITATION	
DESIGNED BY	MJL	DESIGNED CK'D.	JLR
DRAWN BY	MJL	PLANS CK'D.	
CULVERT EXTENSION			SHEET 1 OF 1



PLAN

ELEVATION

OUTLET

BOTTOM SLAB

UNDER CUT 1'-0" (INCLUDED IN EXCAVATION FOR STRUCTURES), PLACE GEOTEXTILE FABRIC, TYPE 'C', AND BACKFILL WITH 'BREAKER RUN'. EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 419+25	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-5-1745	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	
311.0115	BREAKER RUN	CY	
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	
504.0100	CONCRETE MASONRY CULVERTS	CY	
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	
606.0300	RIPRAP HEAVY	CY	
645.0105	GEOTEXTILE TYPE C	SY	
645.0120	GEOTEXTILE TYPE HR	SY	
	NON-BID ITEMS		
	FILLER	EACH	¾"

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF =
OPERATING RATING FACTOR: RF =
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): (KIPS)

EARTHLOAD:
DESIGNED FOR 2.5 TO 3.5 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY: f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT: fy = 60,000 P.S.I.

TRAFFIC VOLUME

STH 32
ADT = 6,200 (2043)
R.D.S. = 55 M.P.H.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-5-1745" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

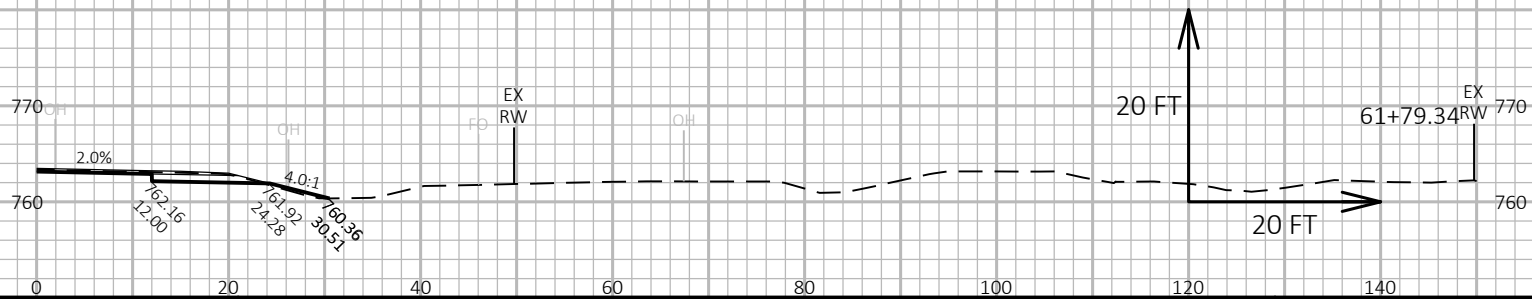
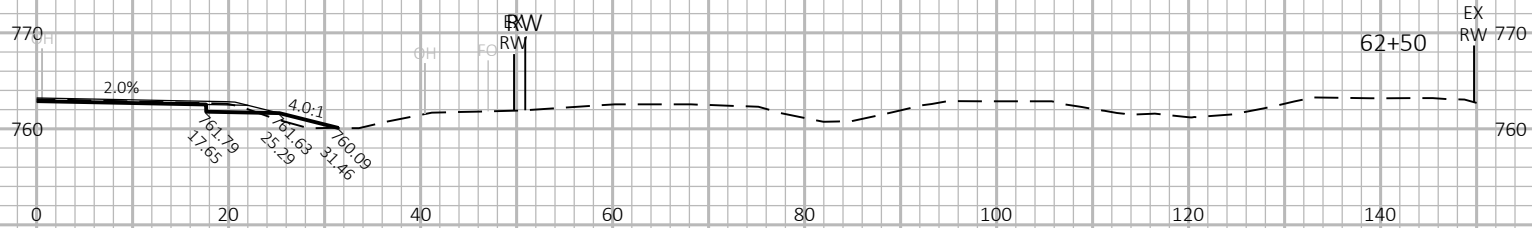
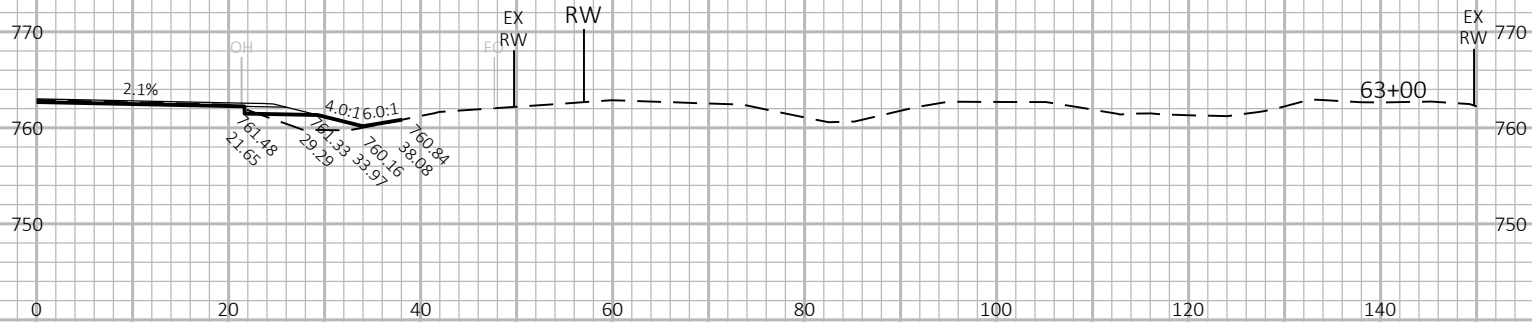
THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC.DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

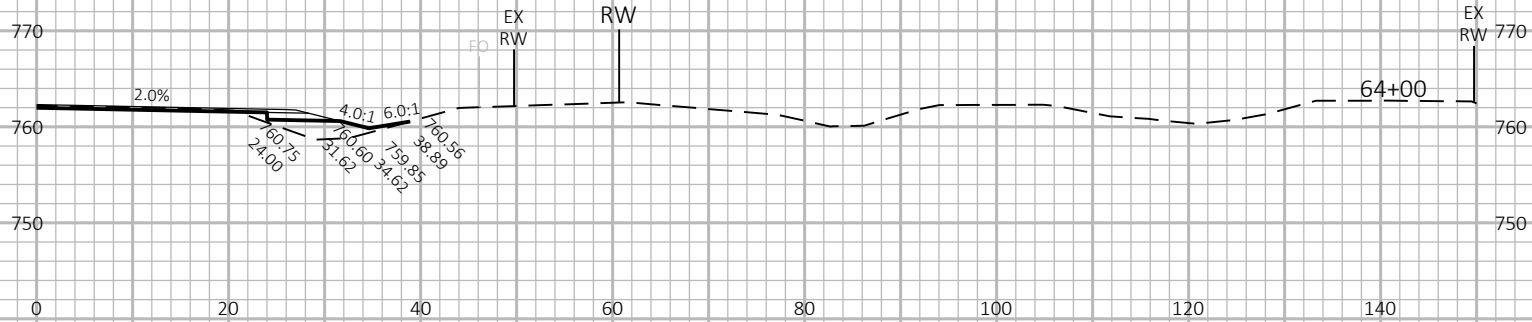
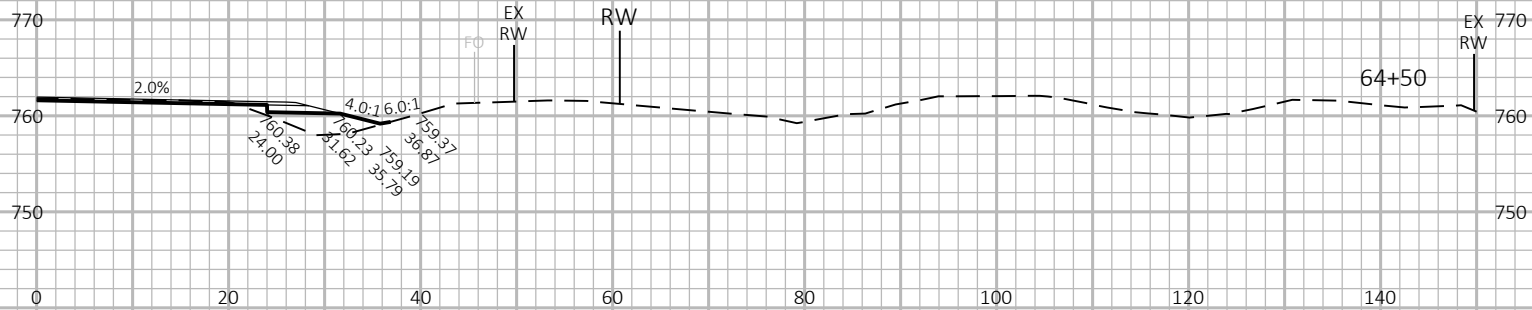
THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

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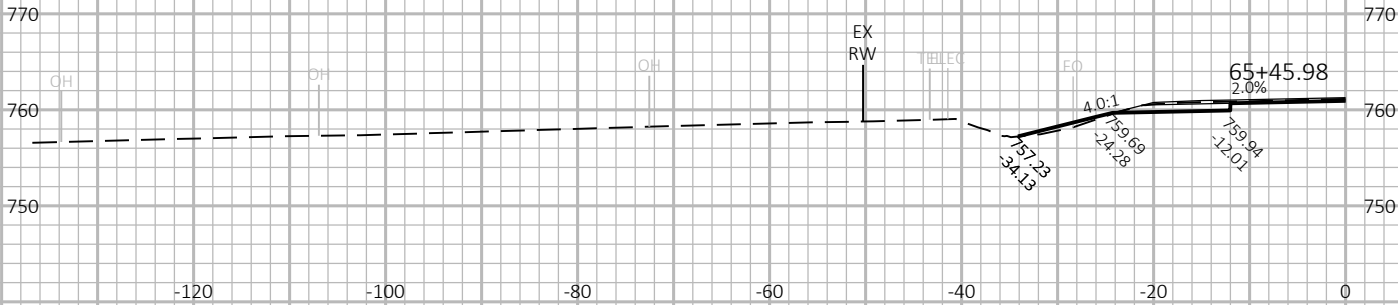
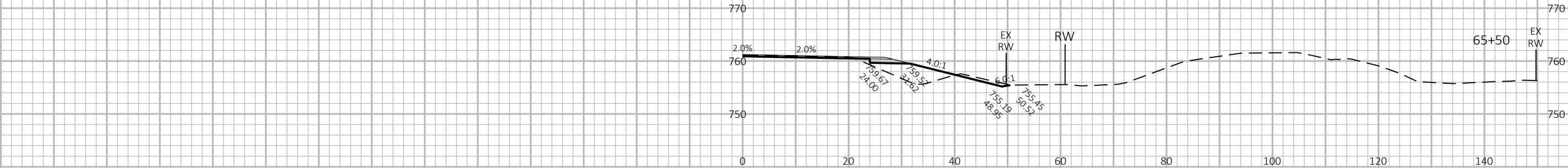
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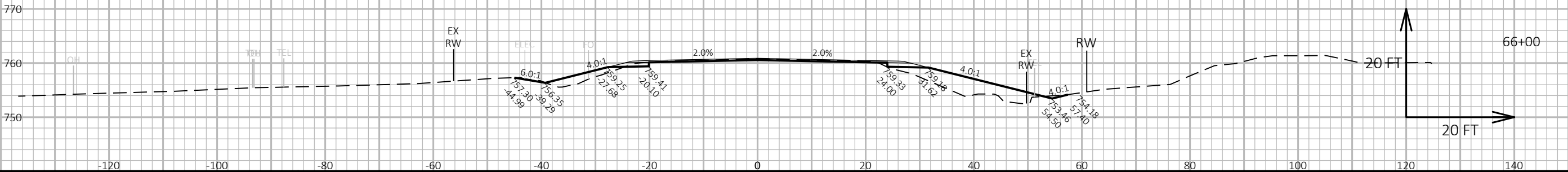
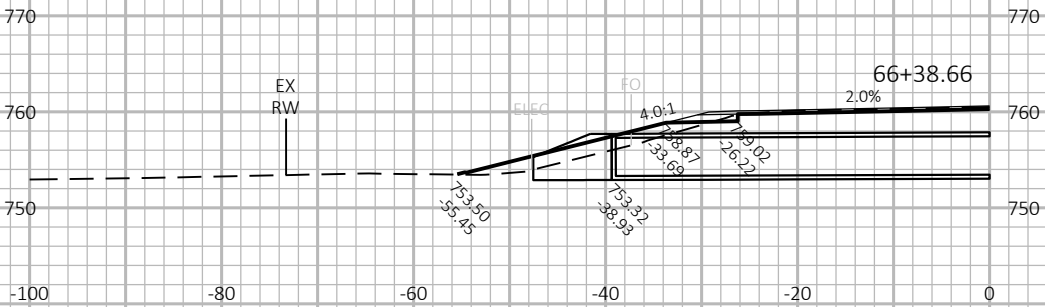
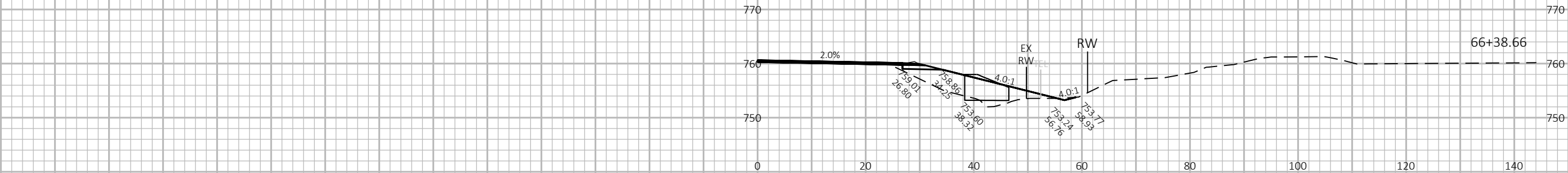
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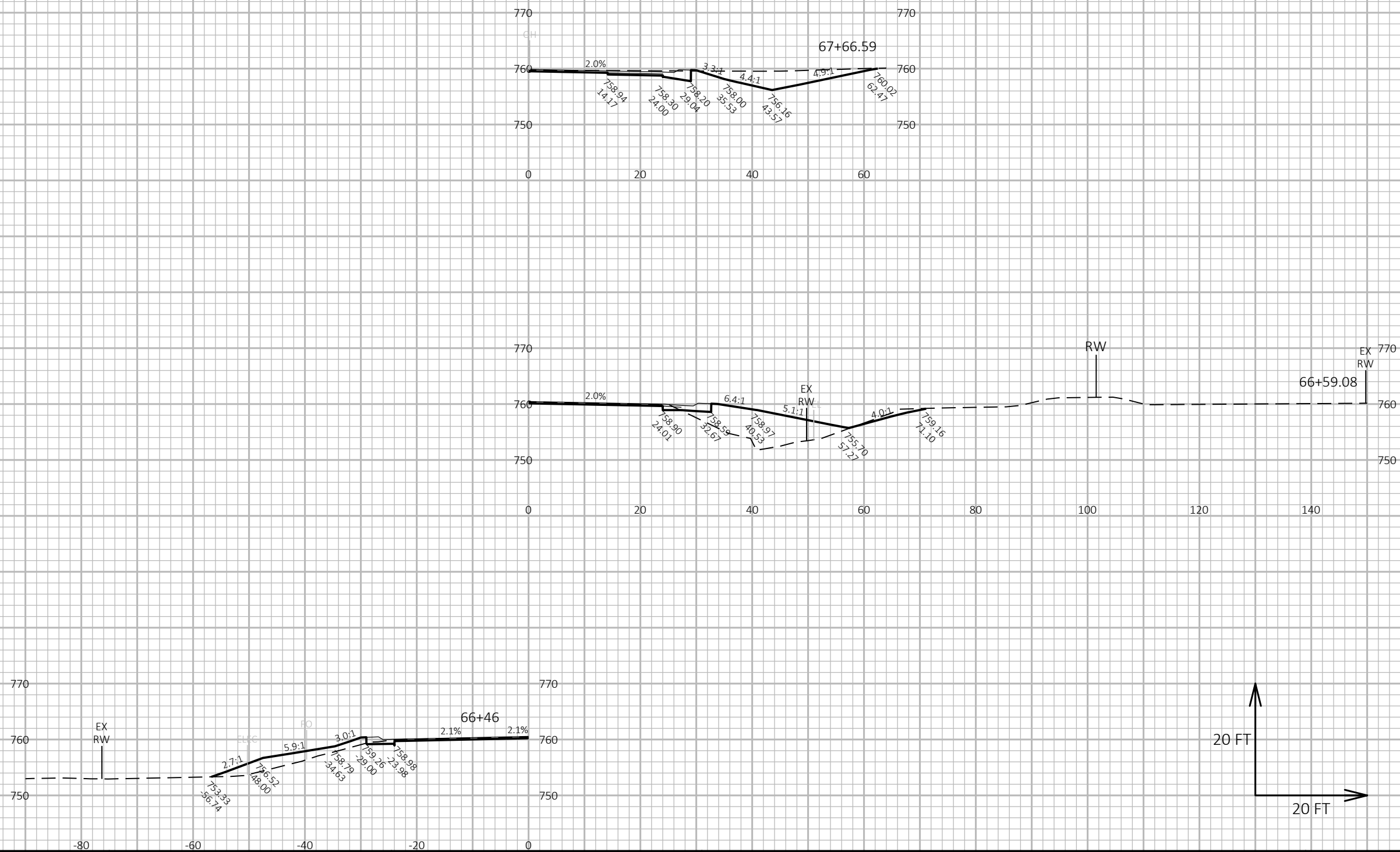
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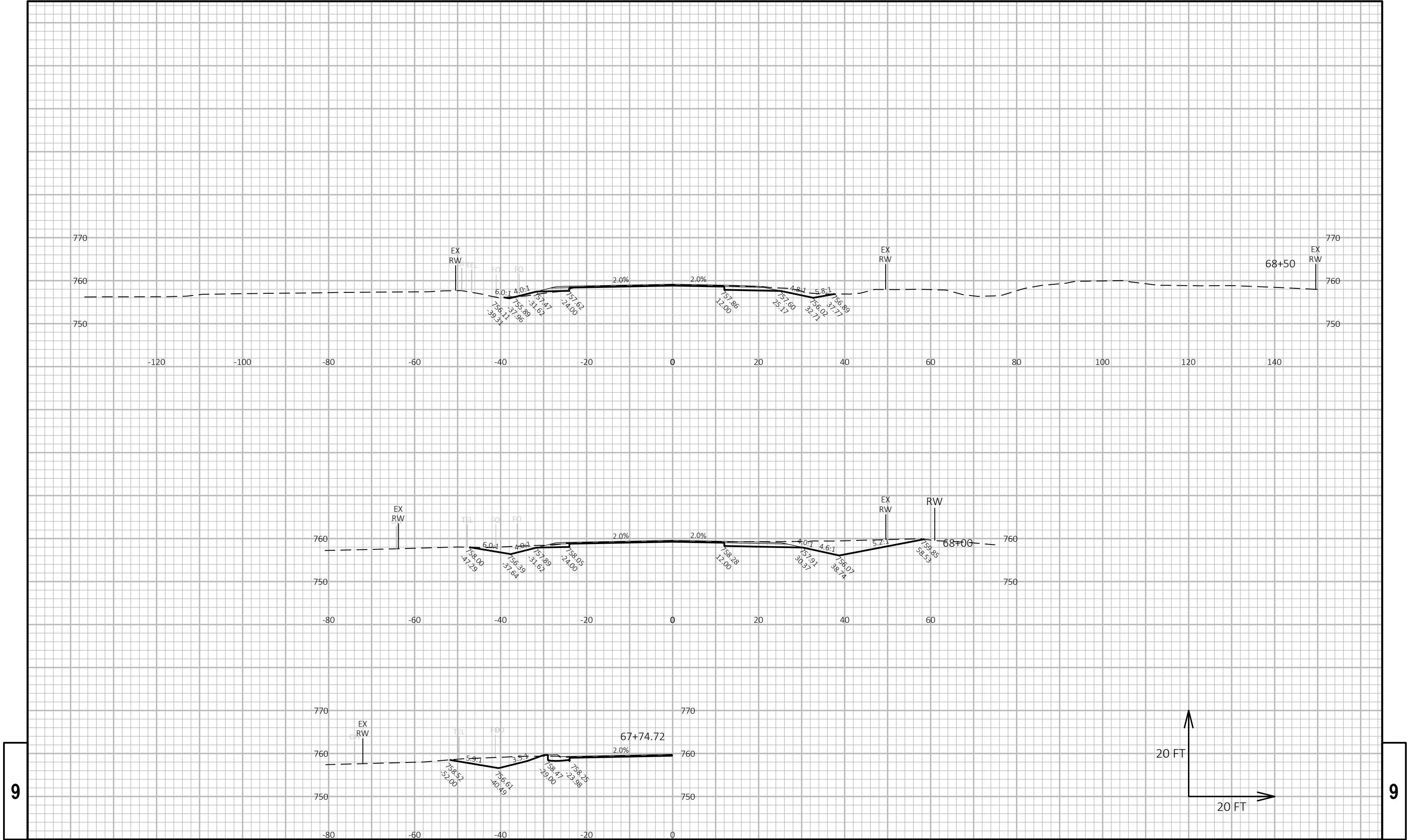


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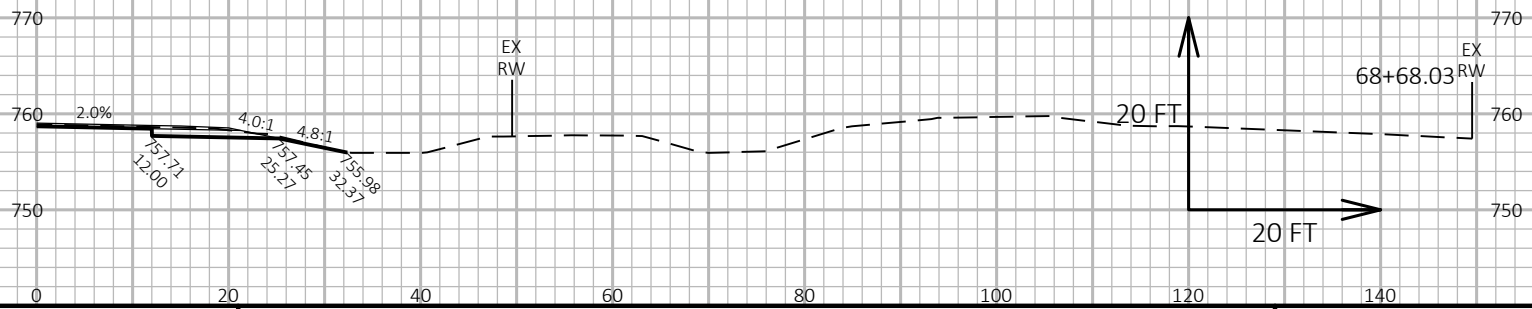
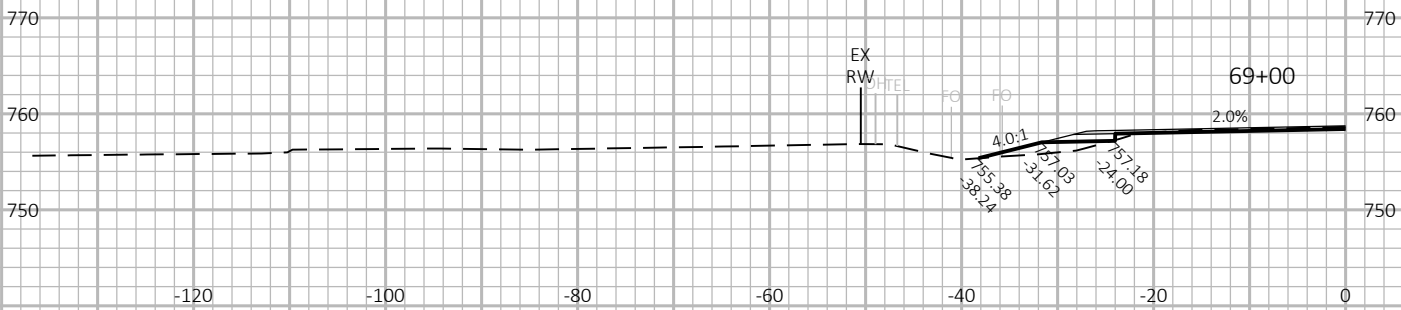
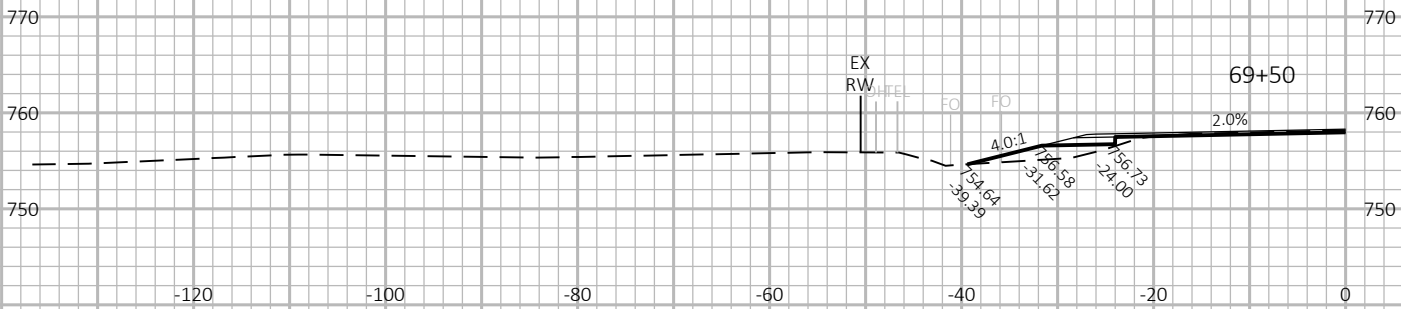
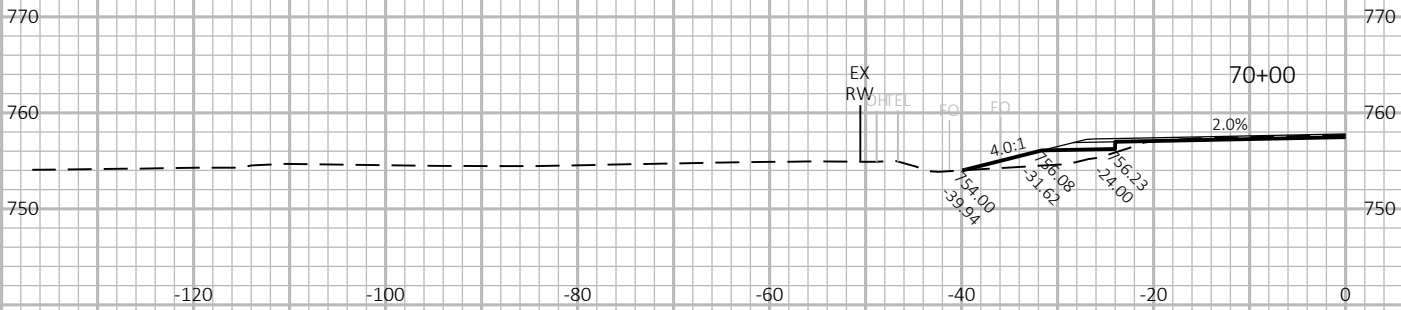
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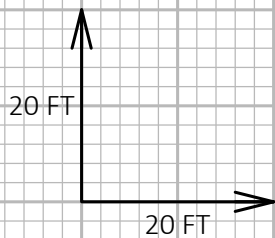
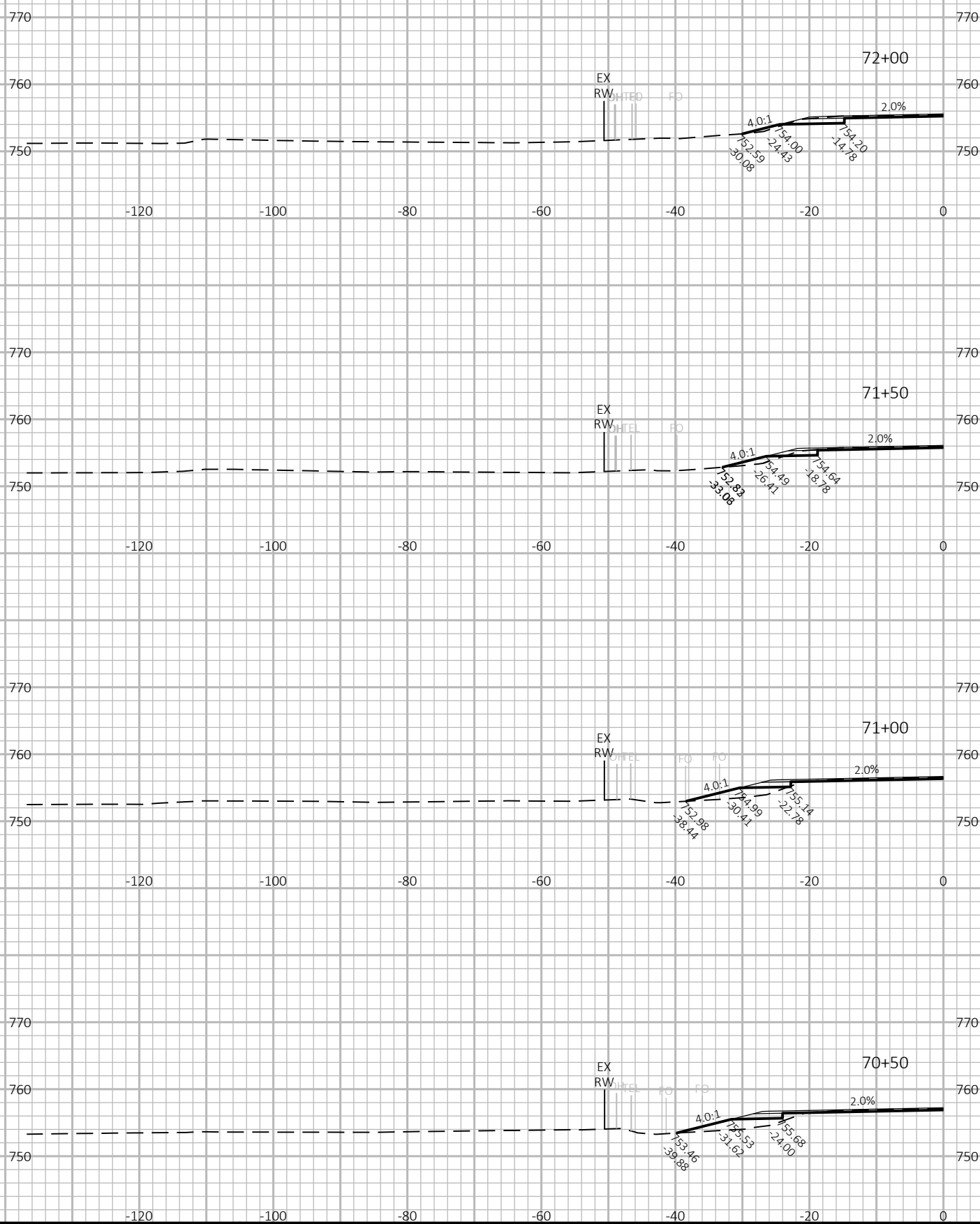
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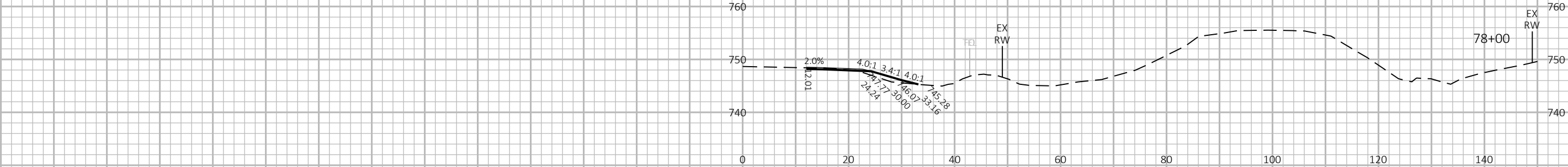


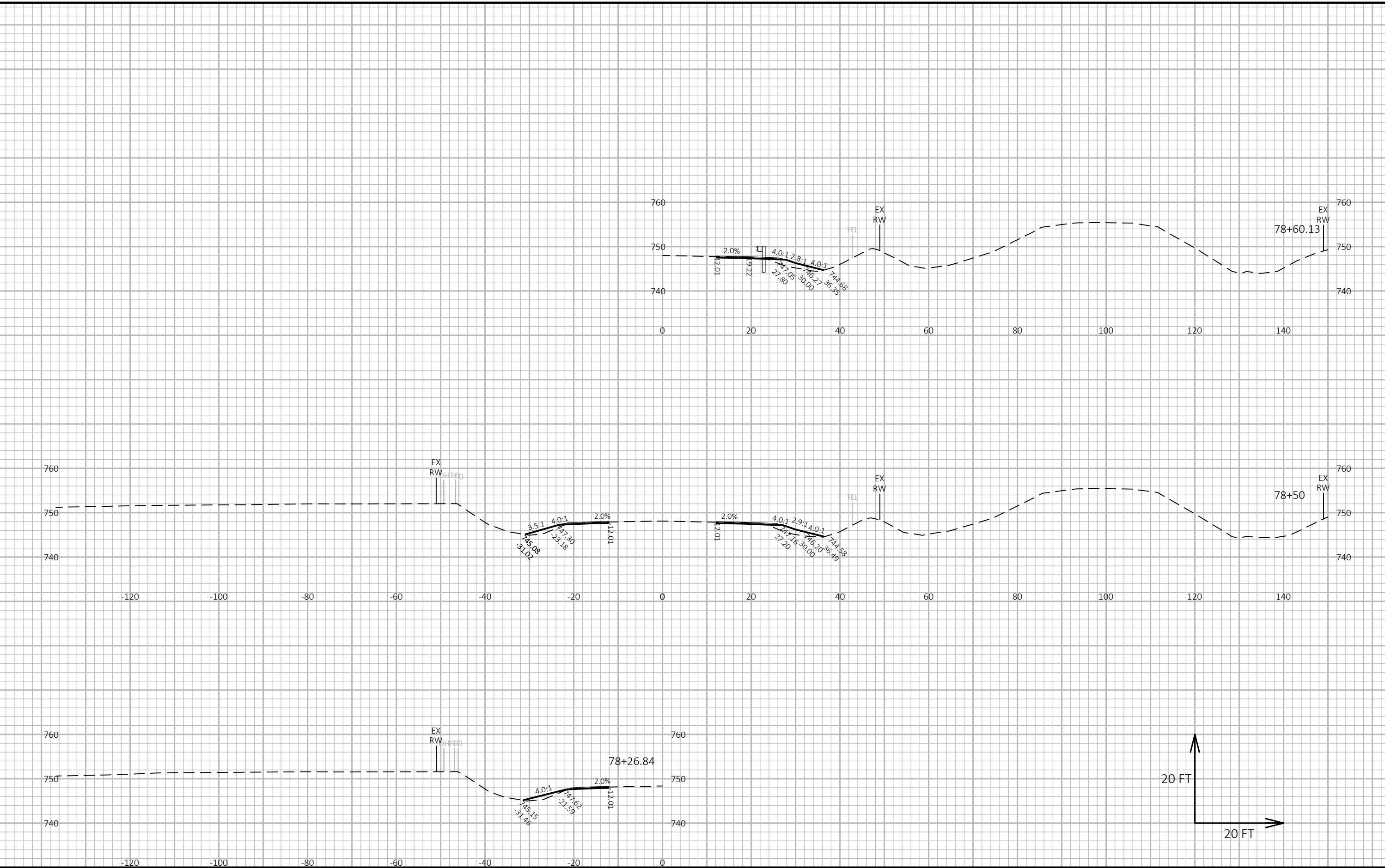
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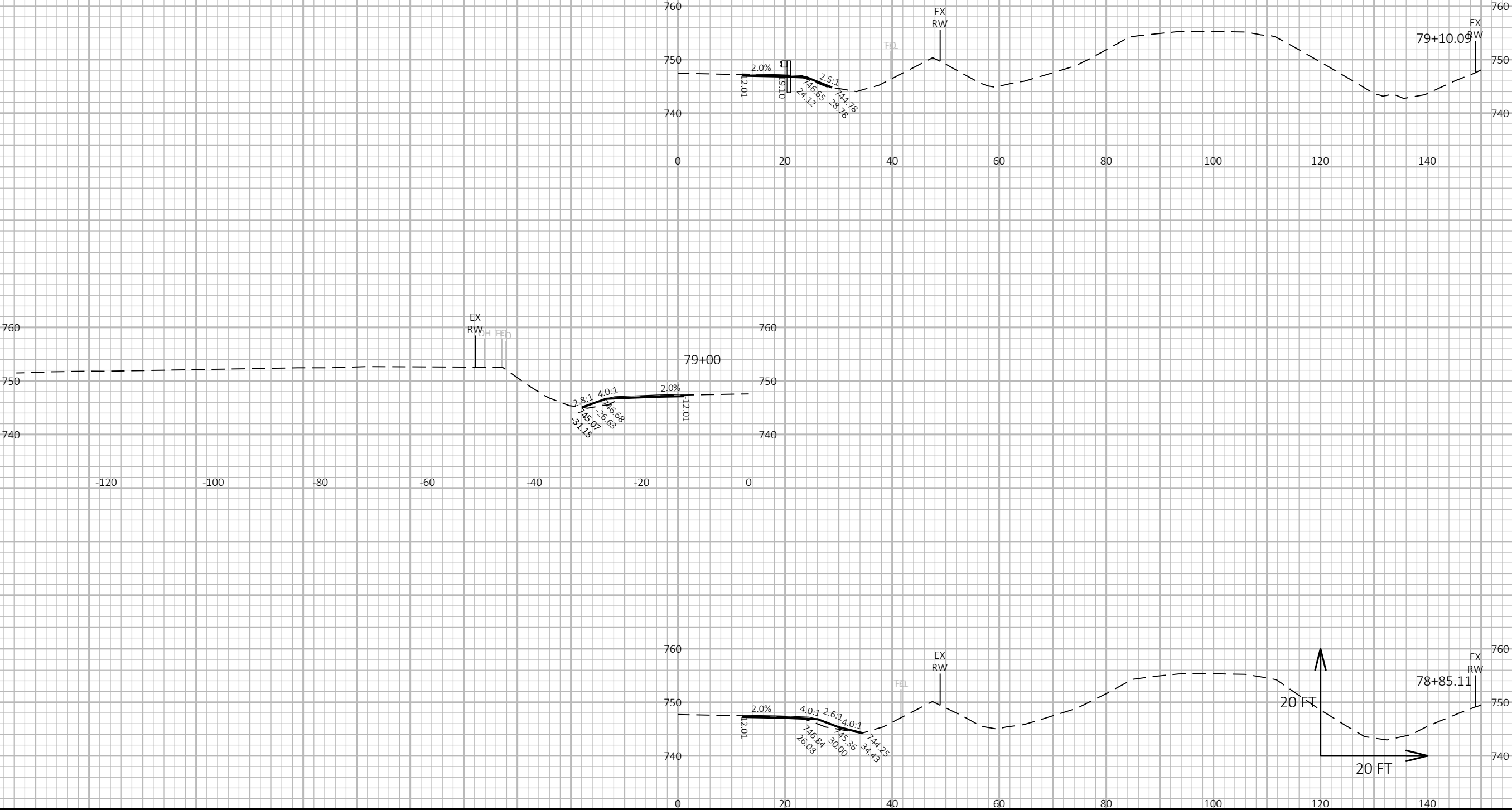


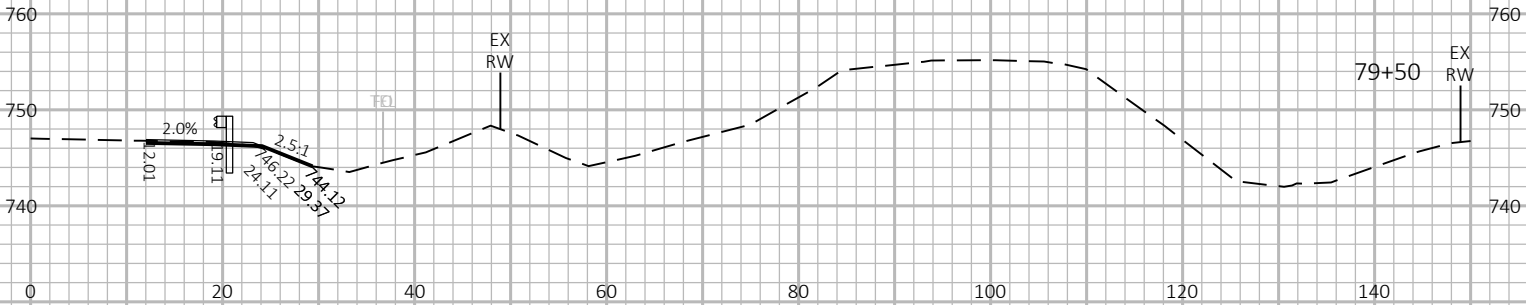
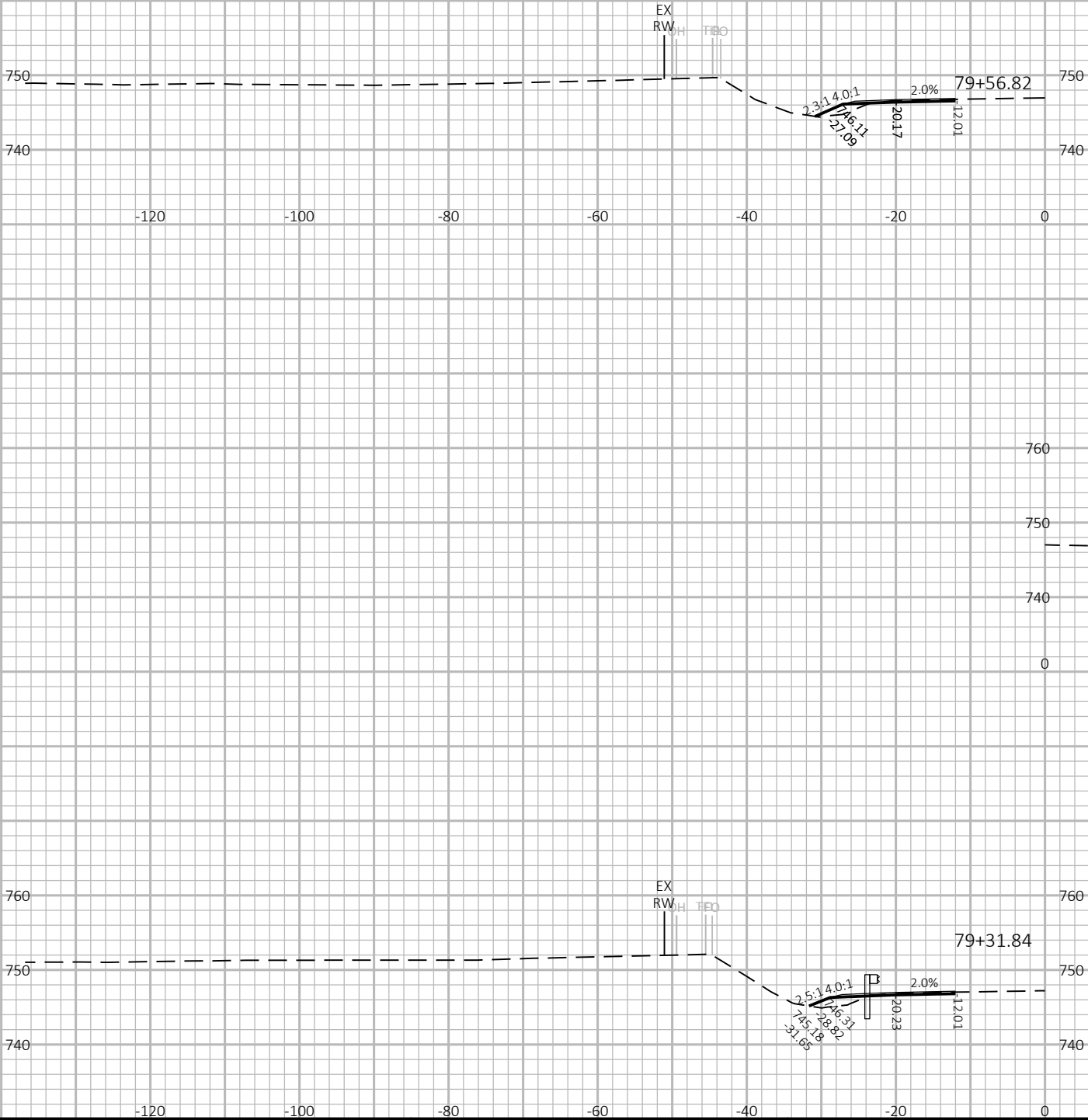
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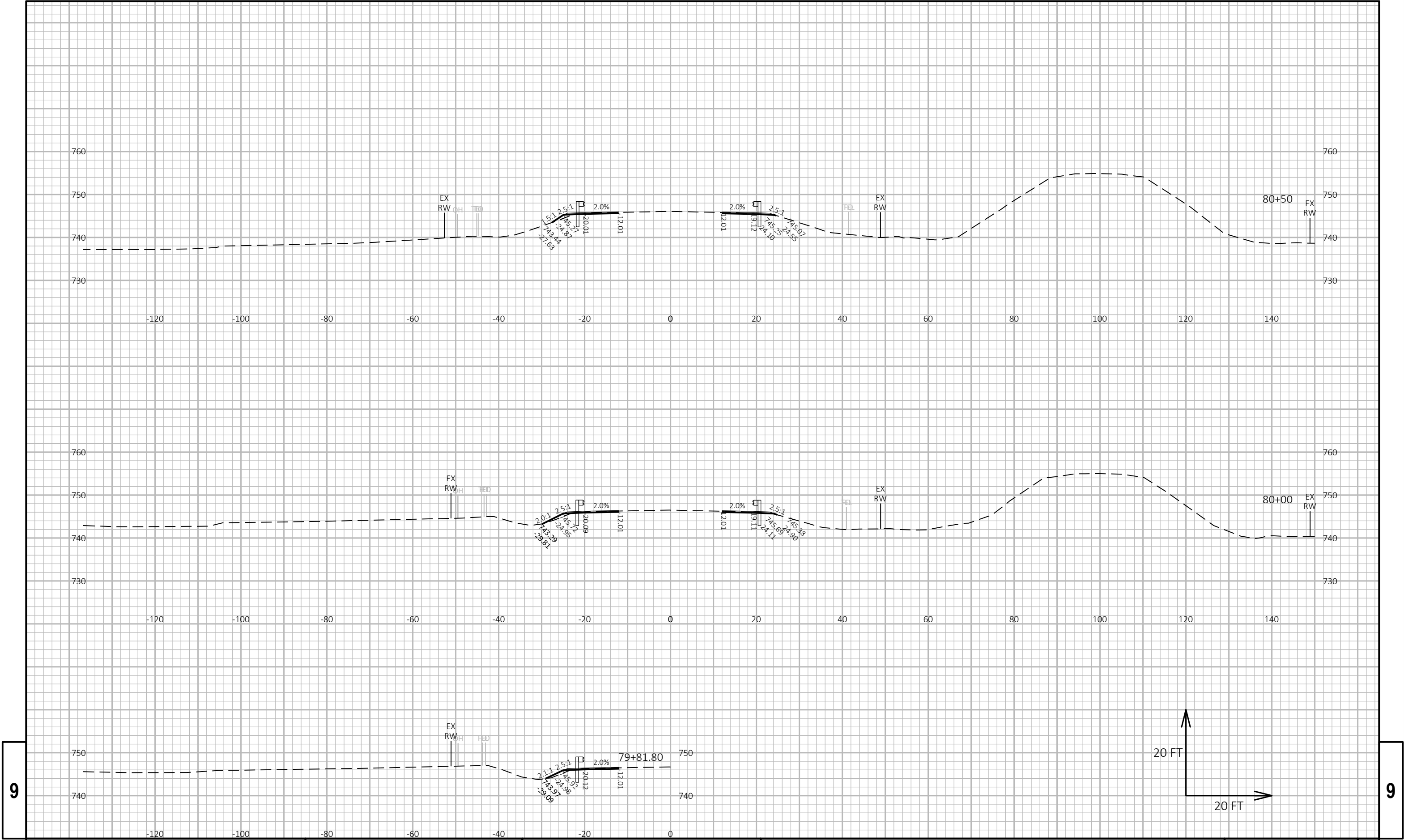


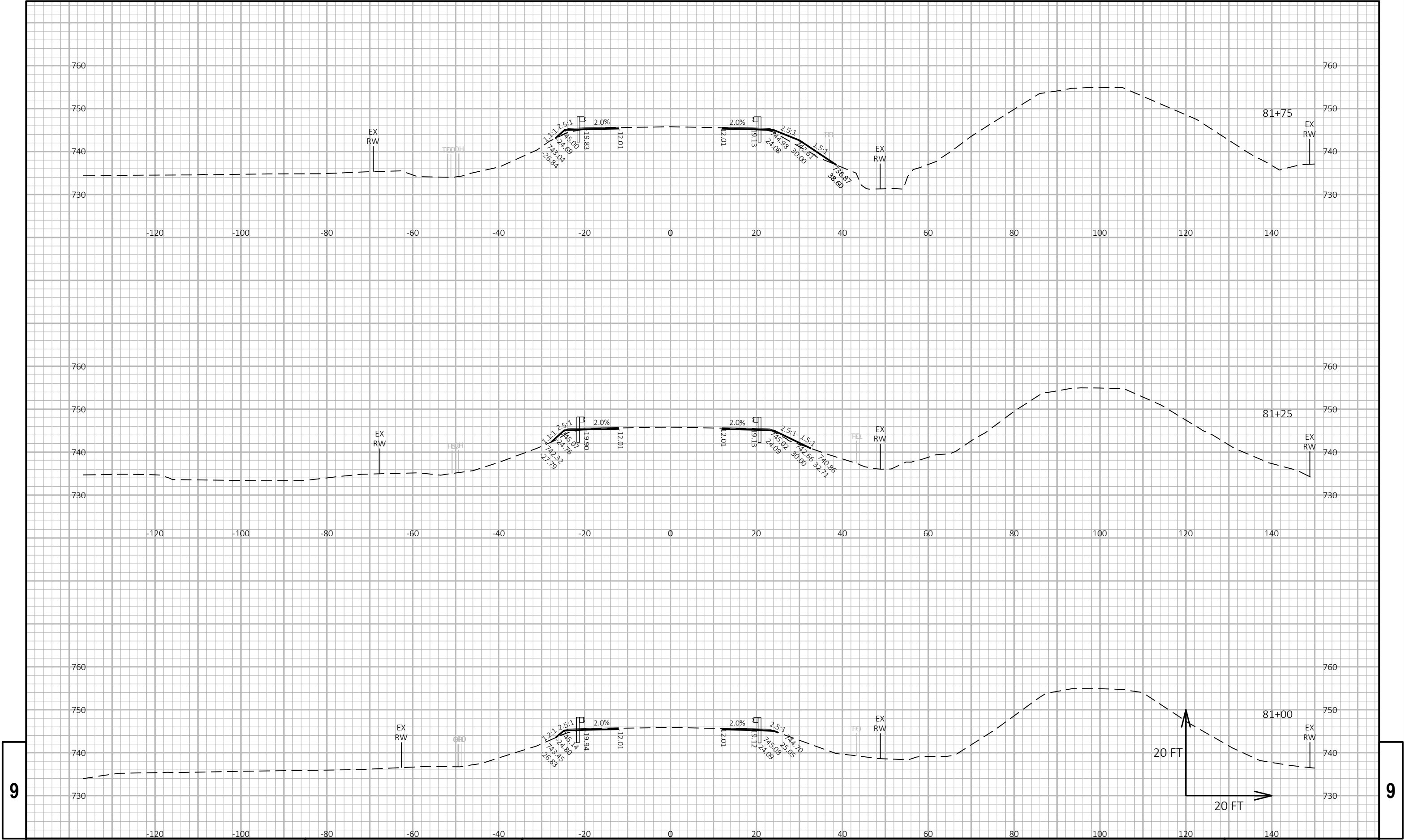








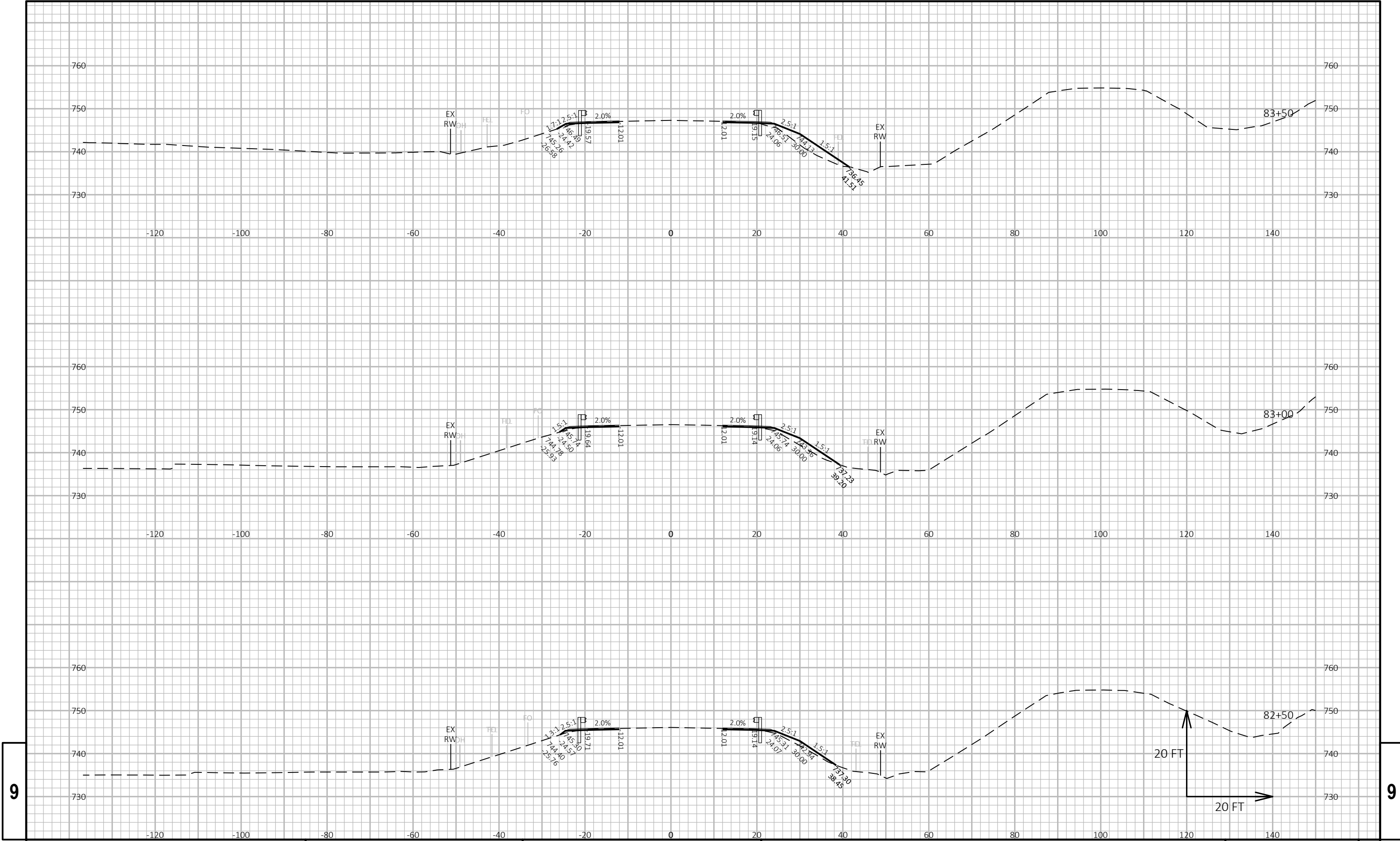




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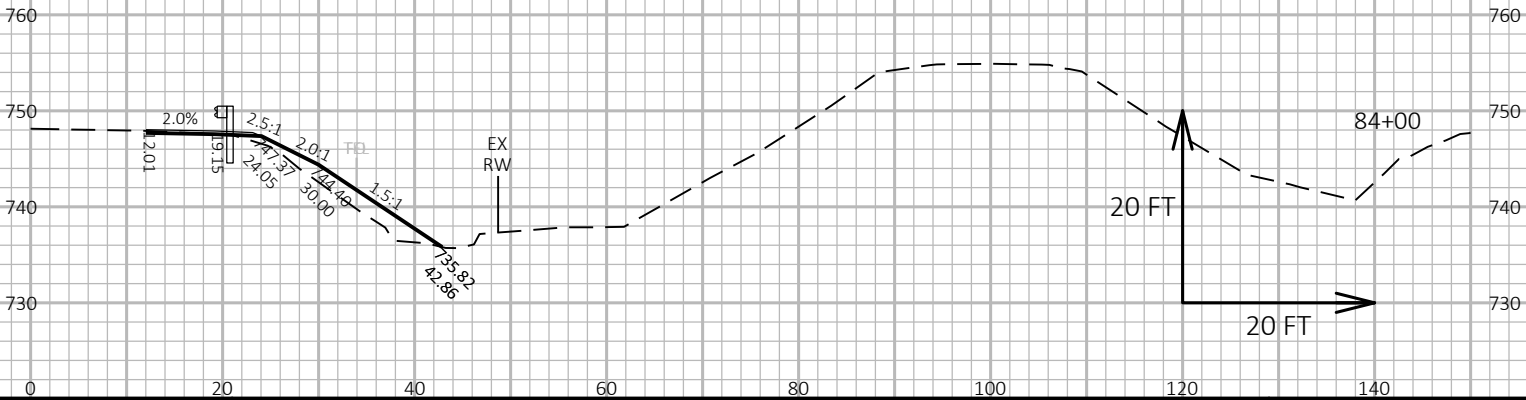
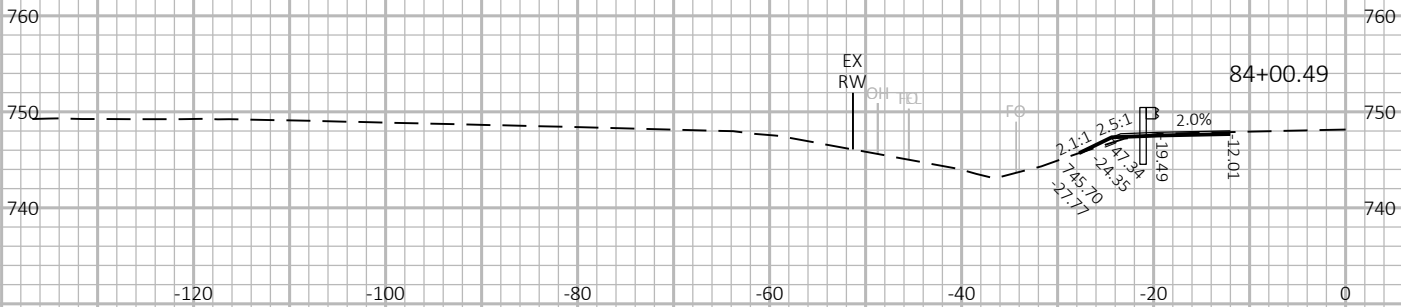
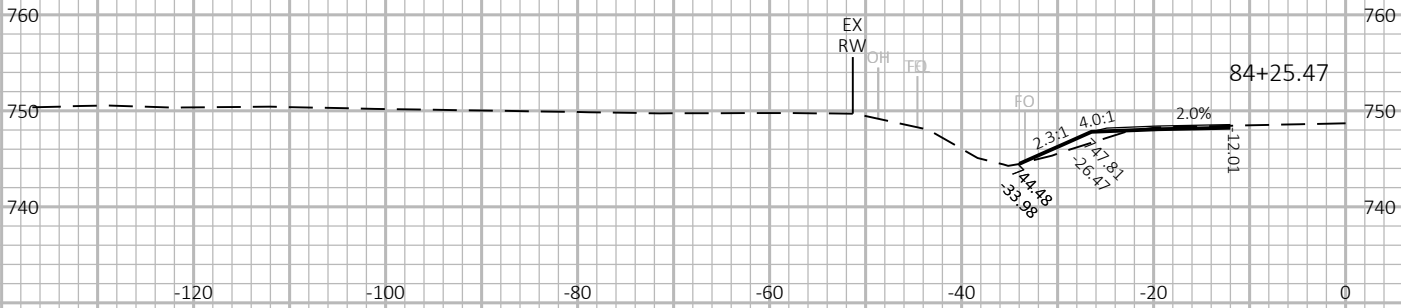


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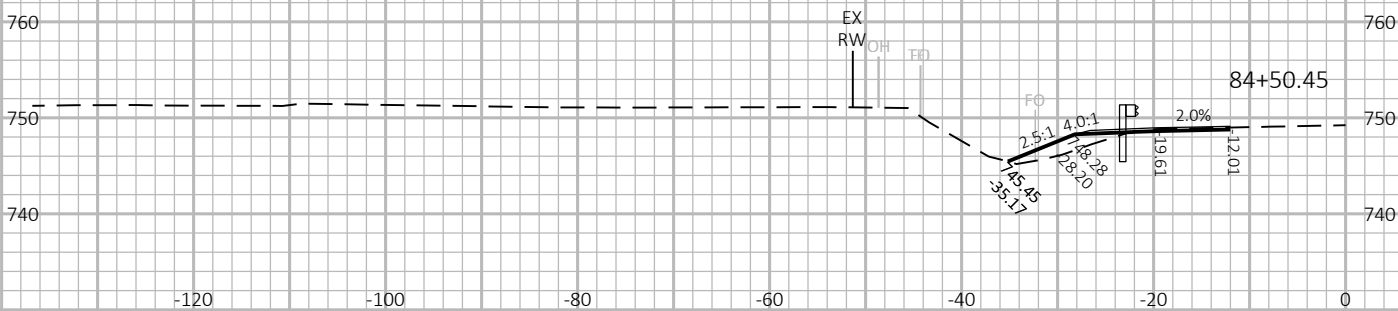
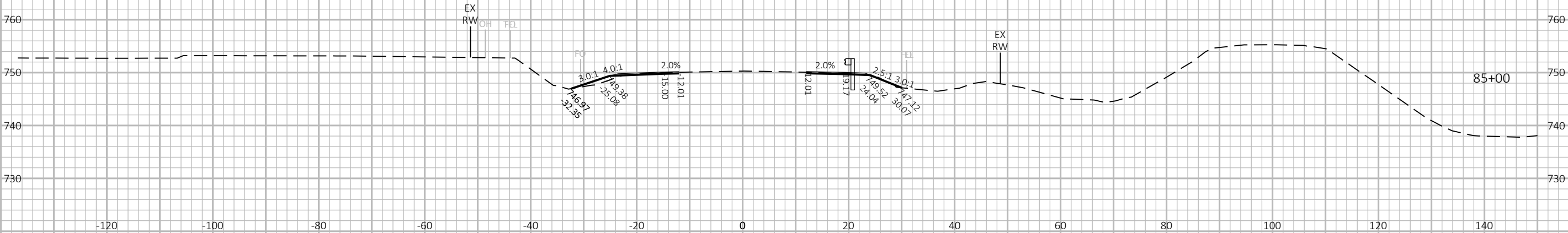
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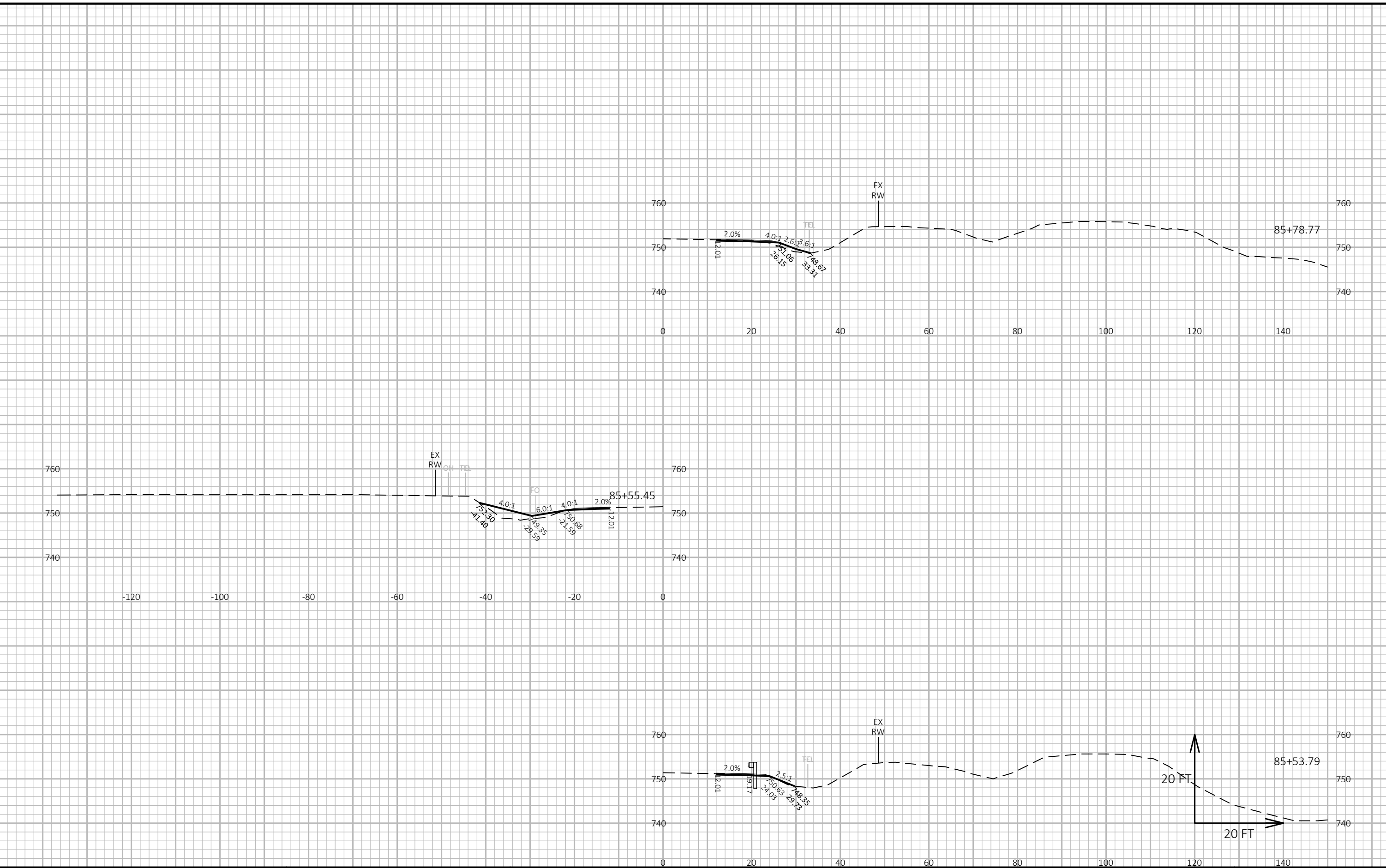
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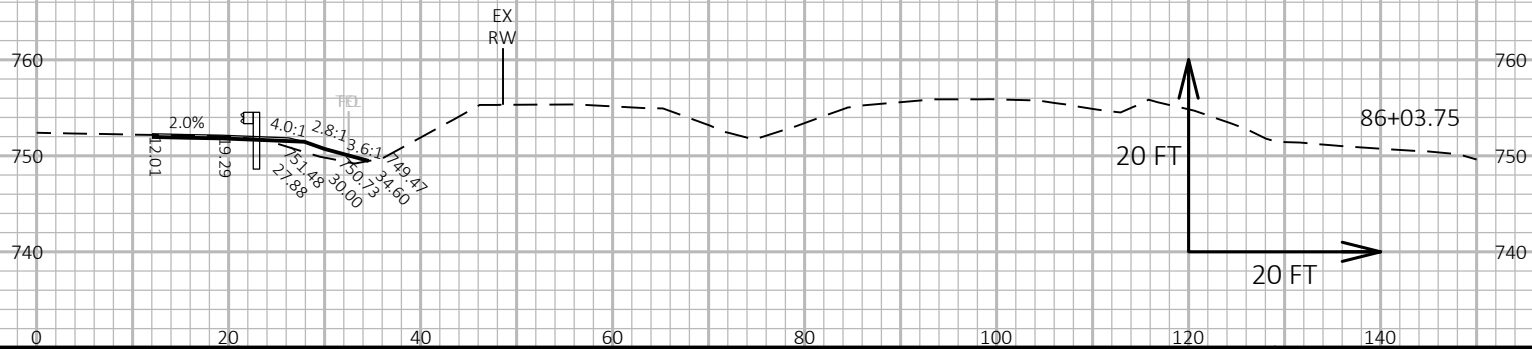
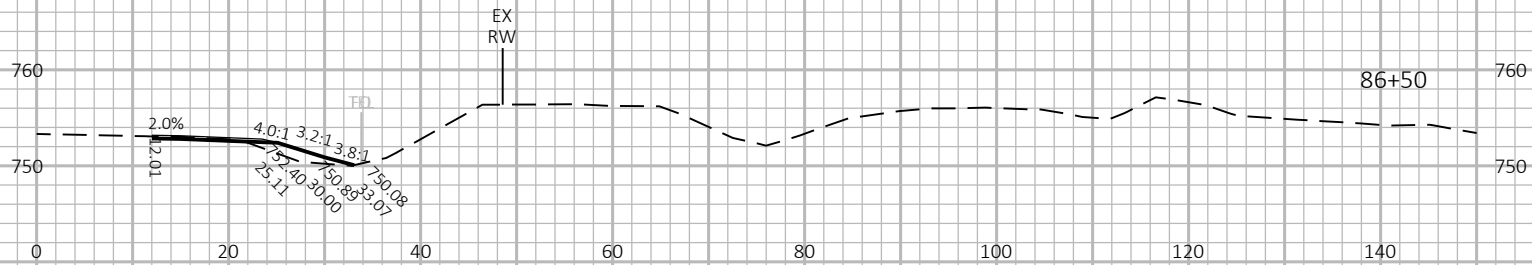
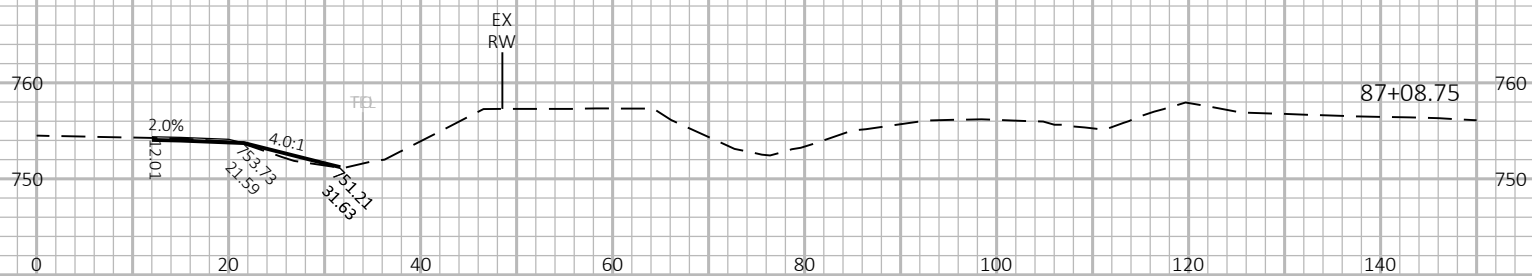


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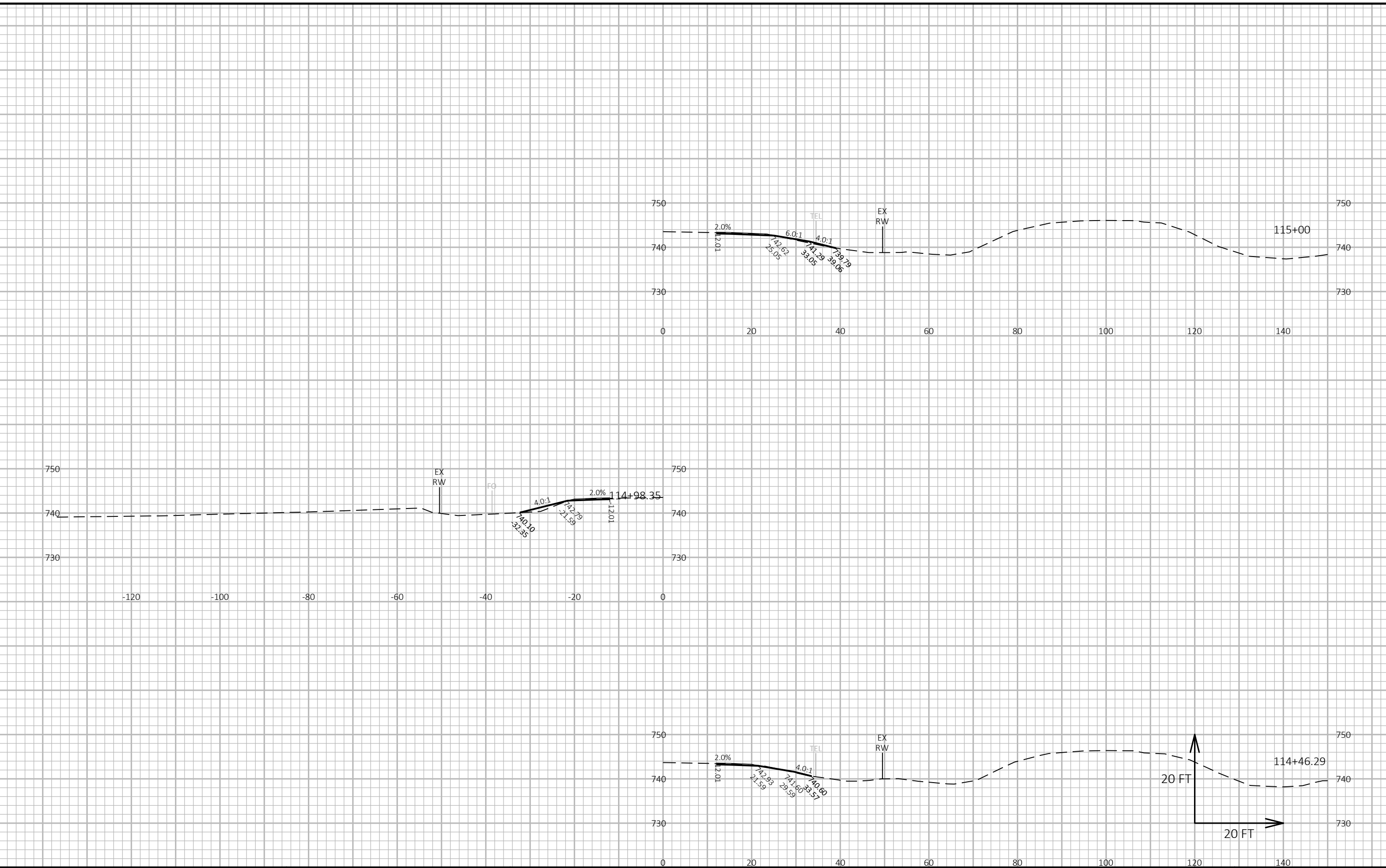


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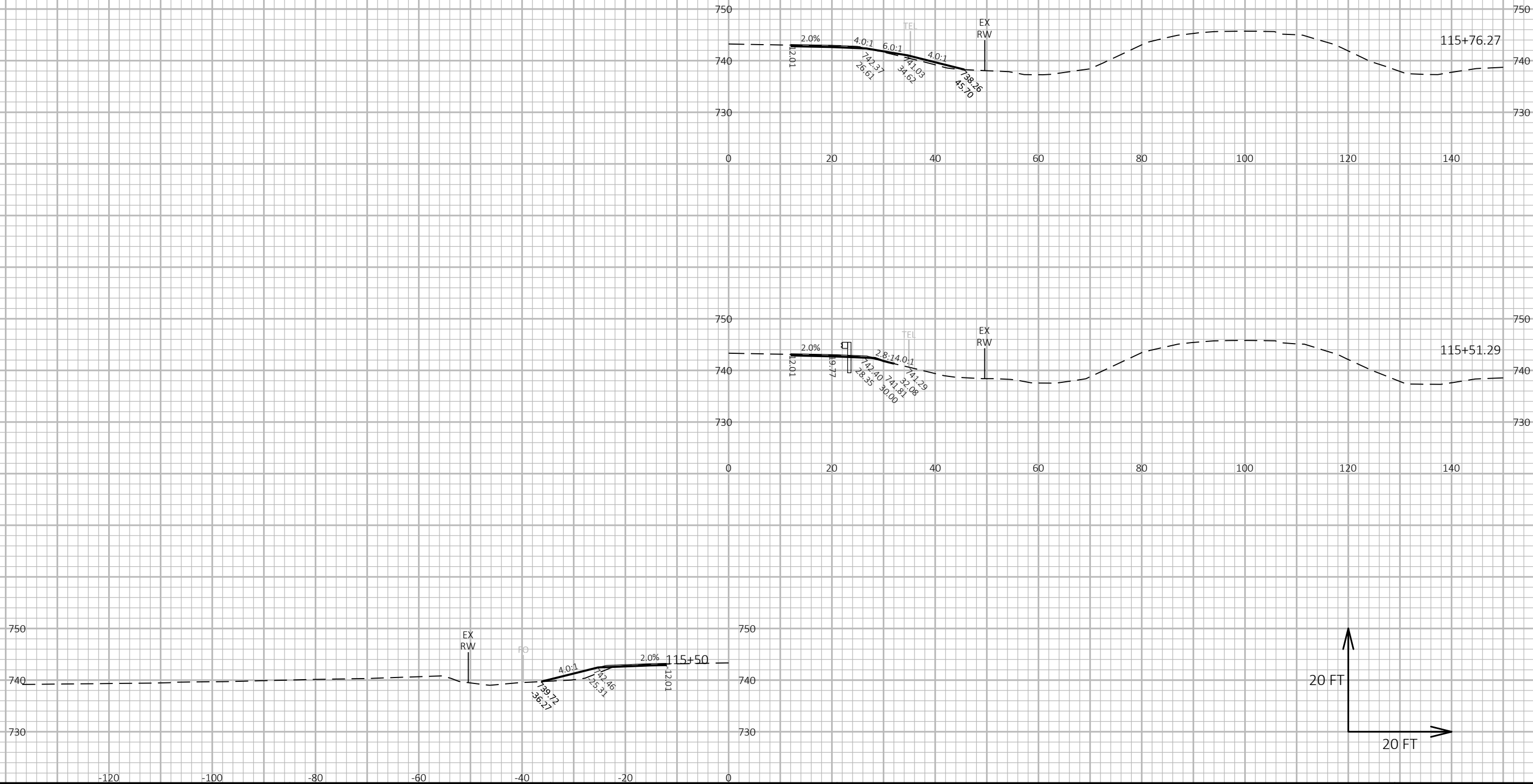
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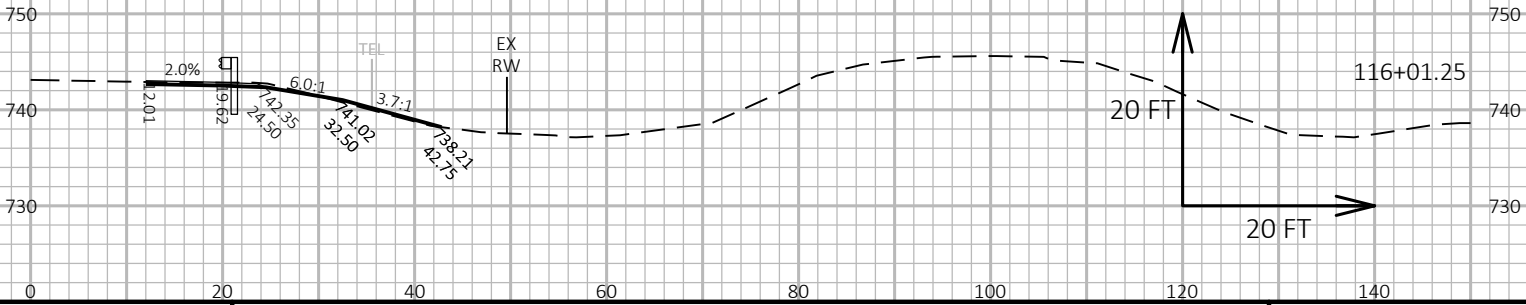
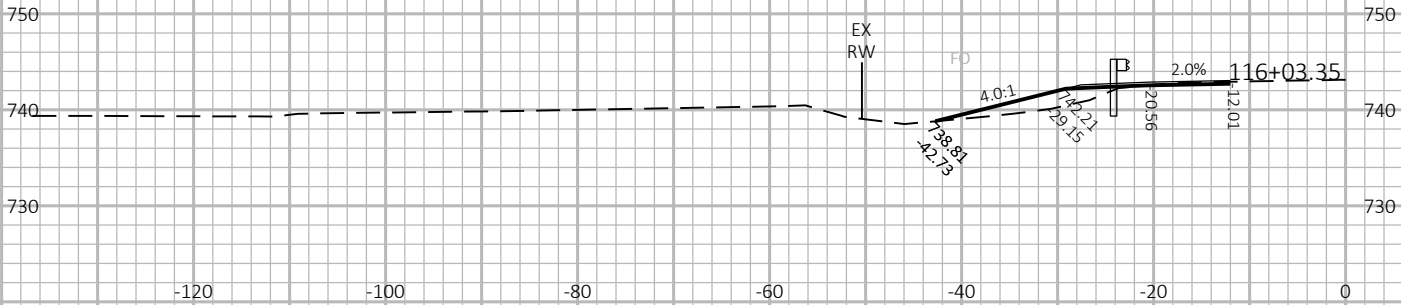
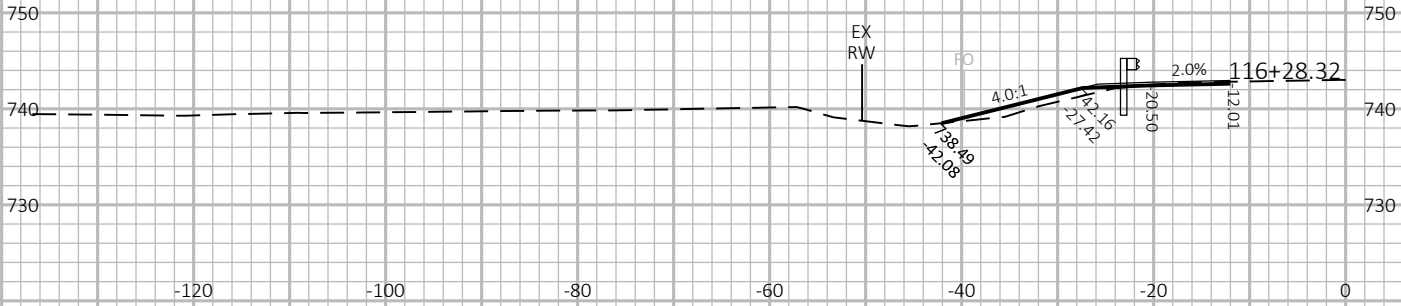
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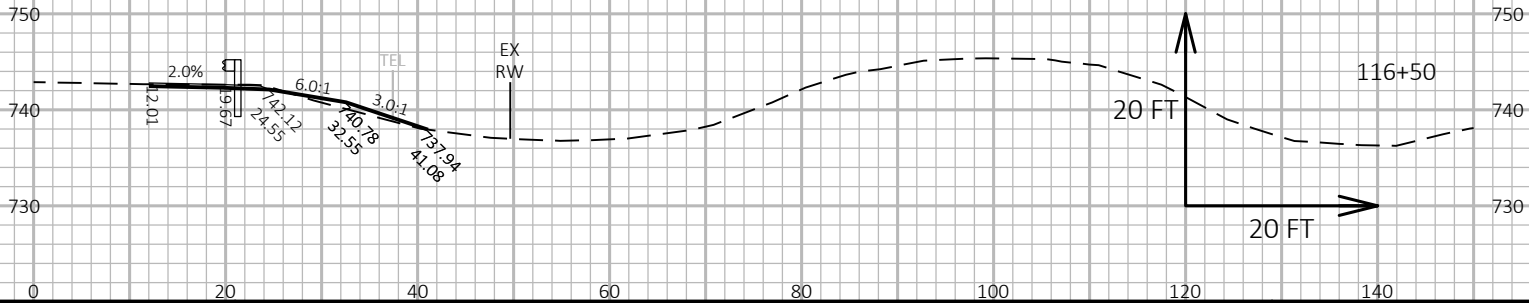
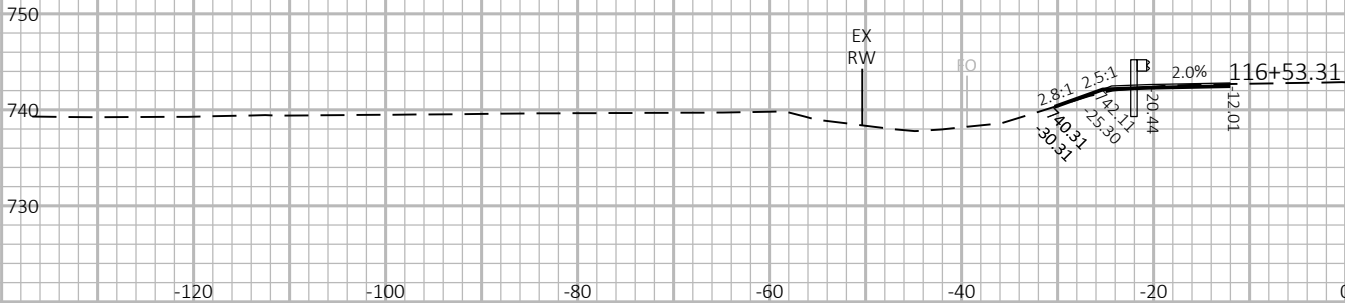
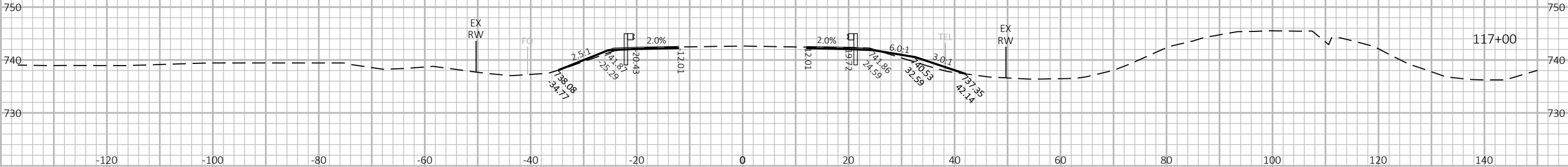


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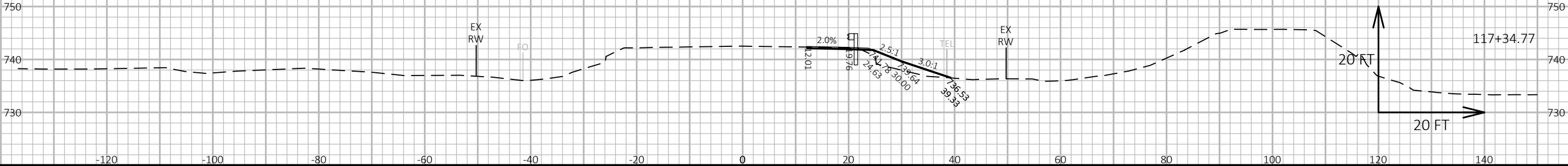
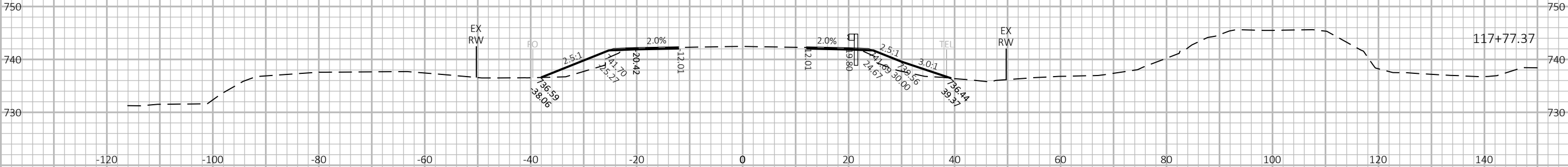


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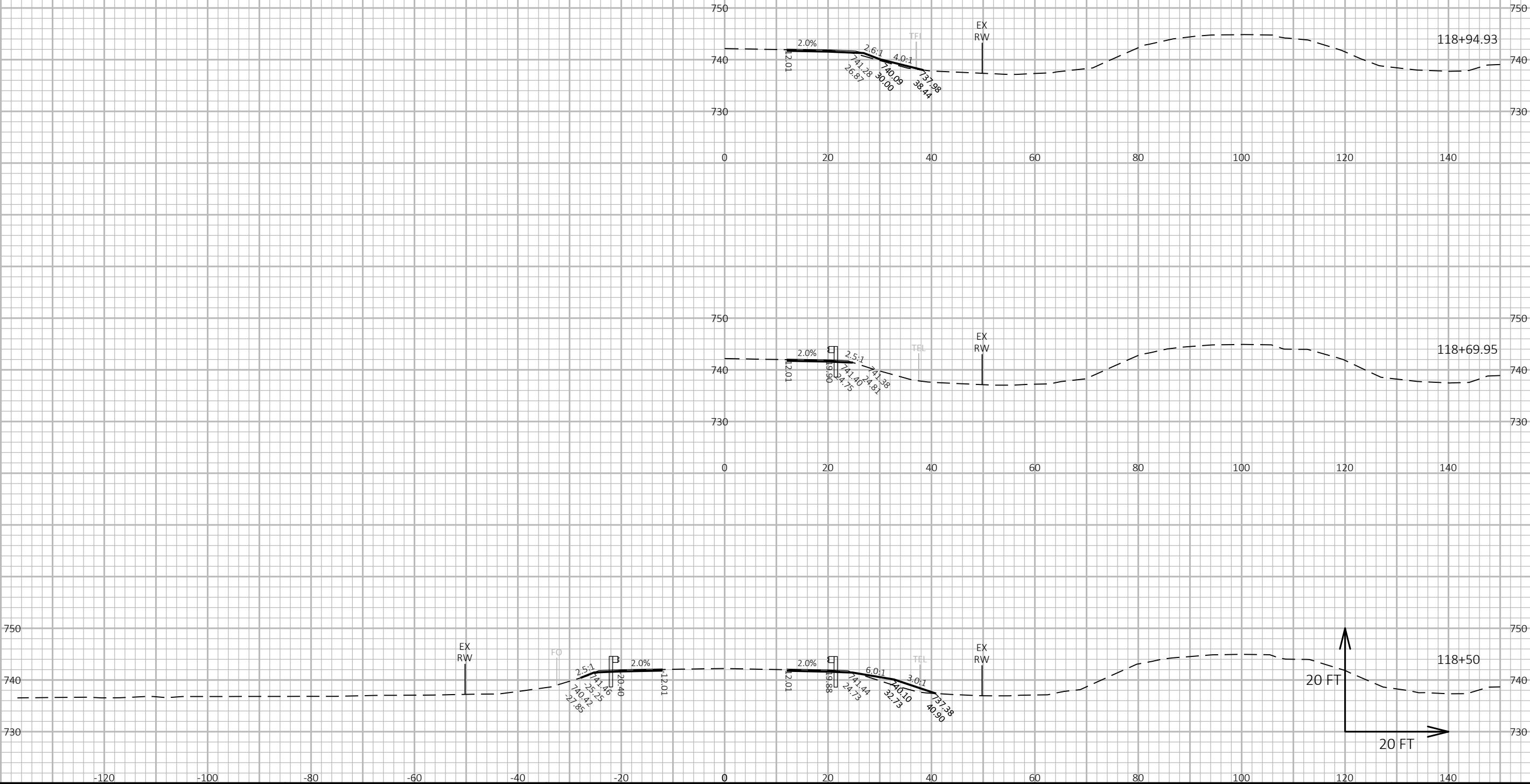
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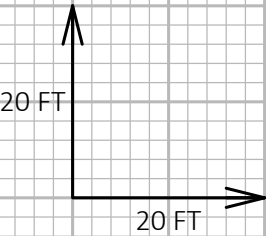
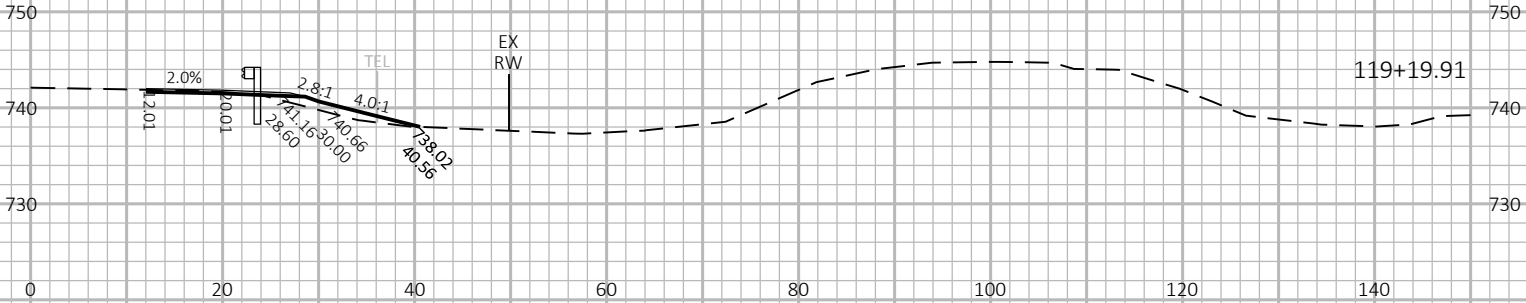
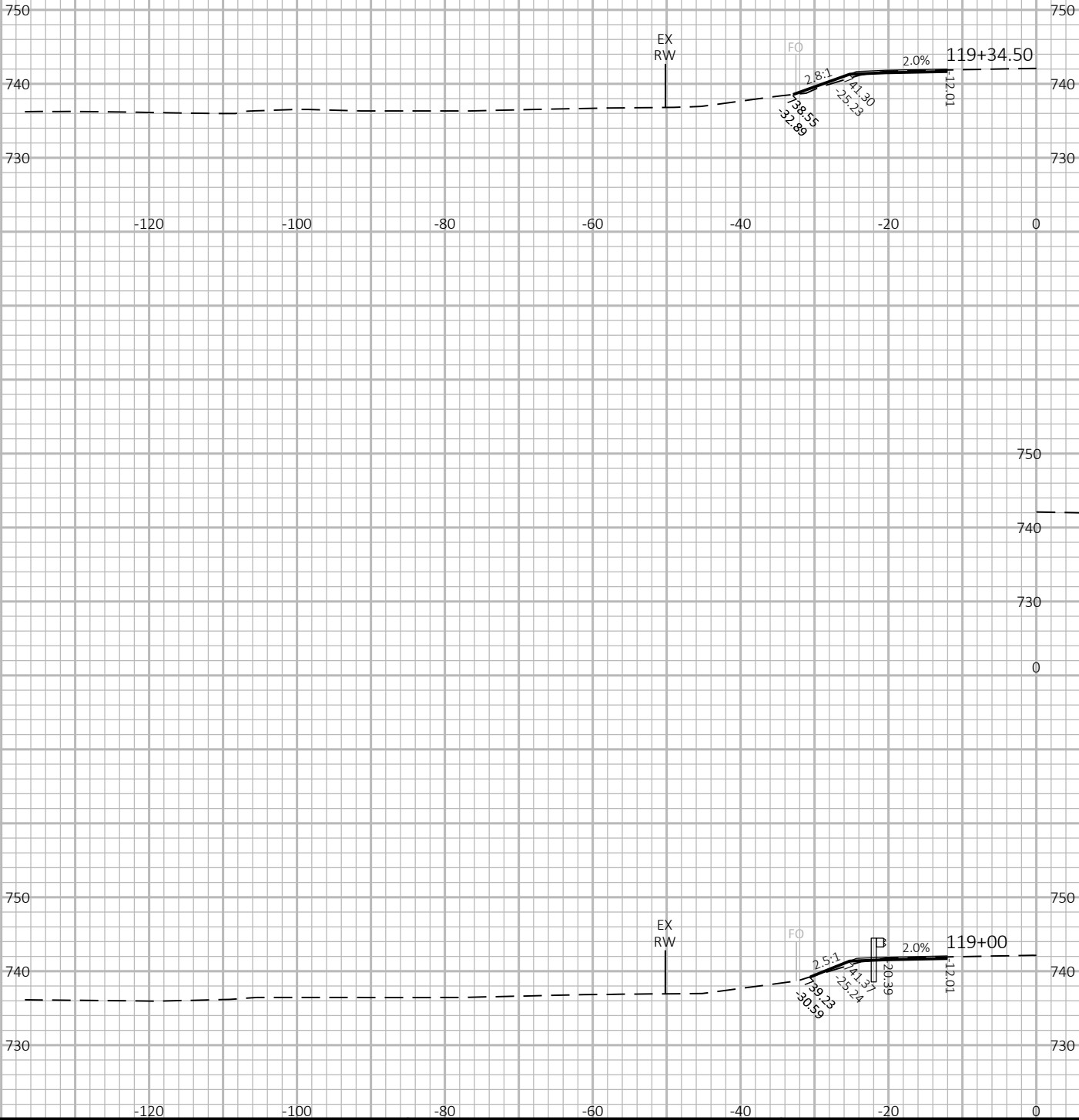
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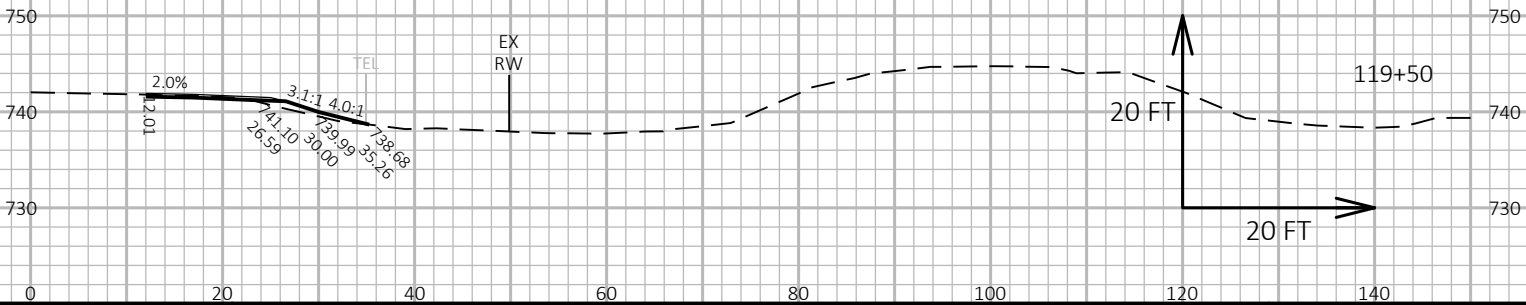
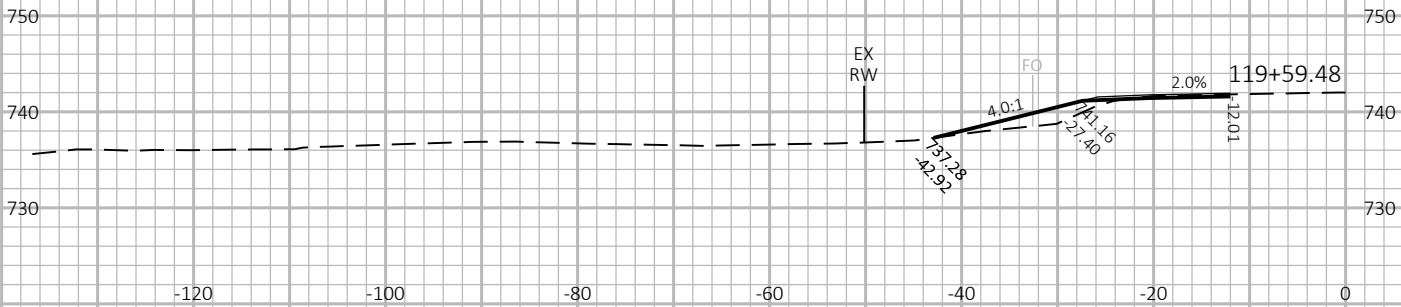
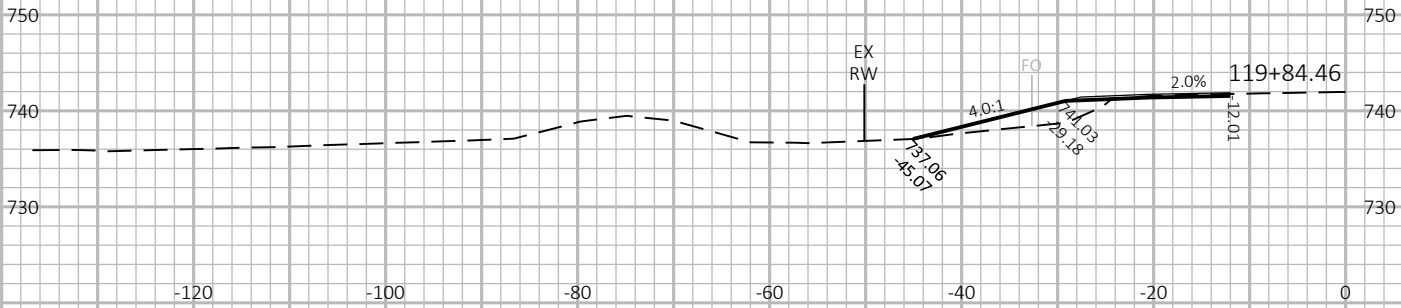
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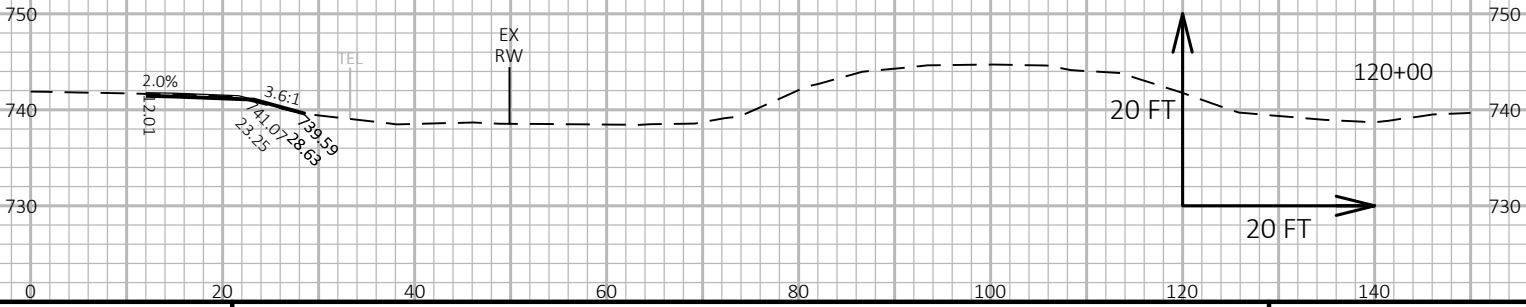
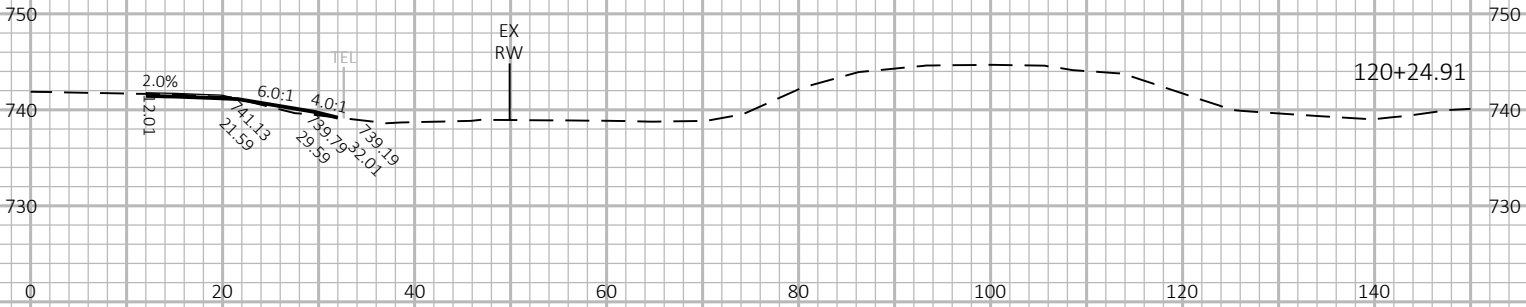
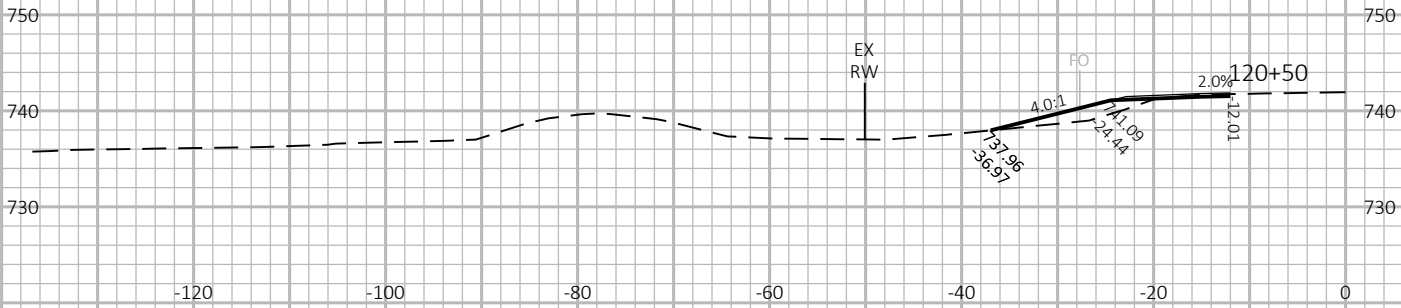
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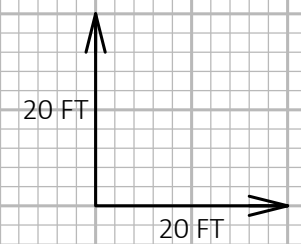
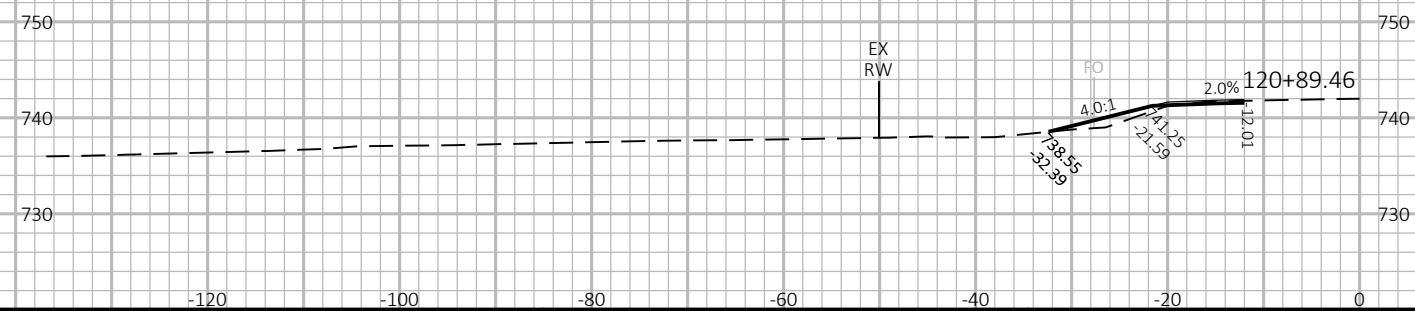
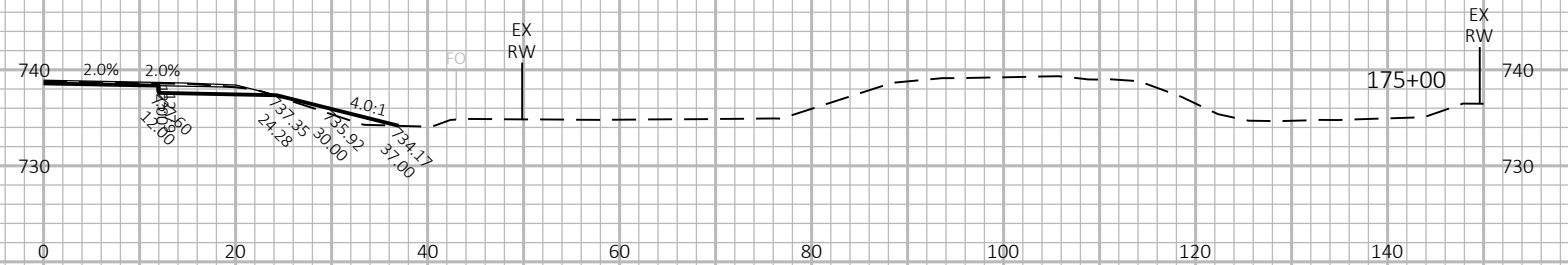
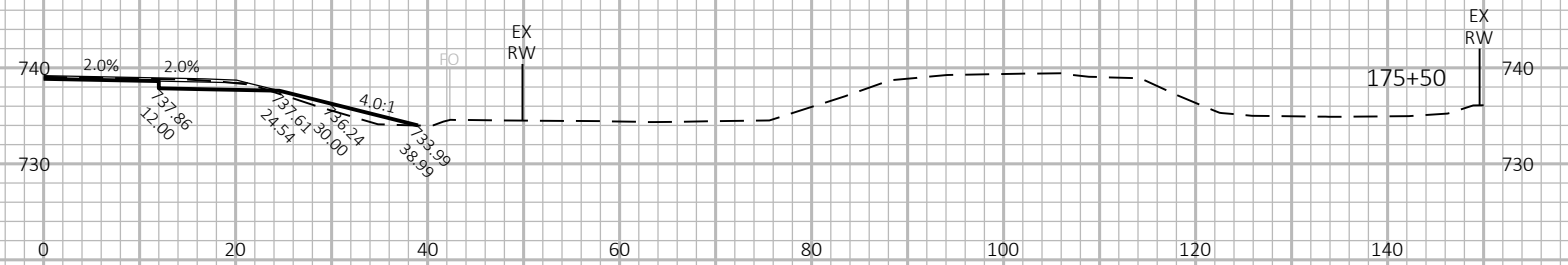
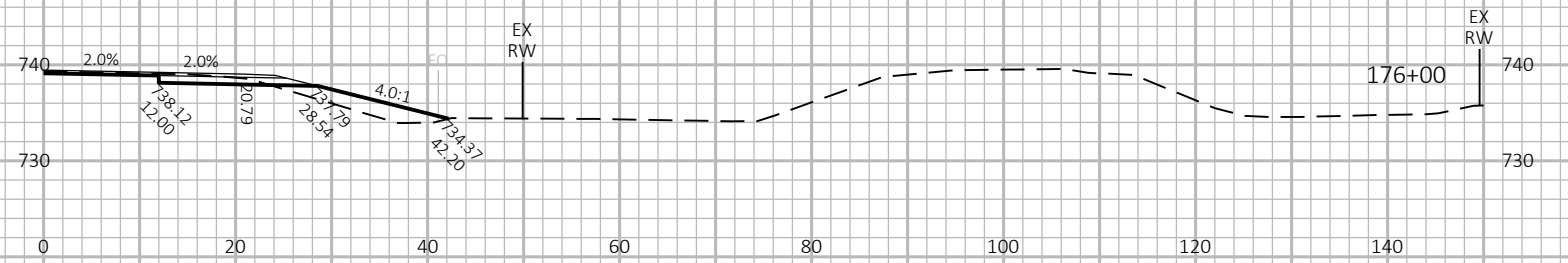


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PROJECT NO:	4085-33-71
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HWY: STH 32

COUNTY: BROWN

CROSS SECTIONS: STH 32

SHEET

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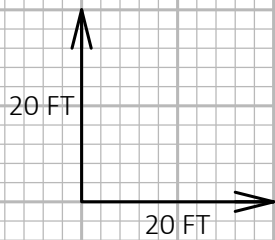
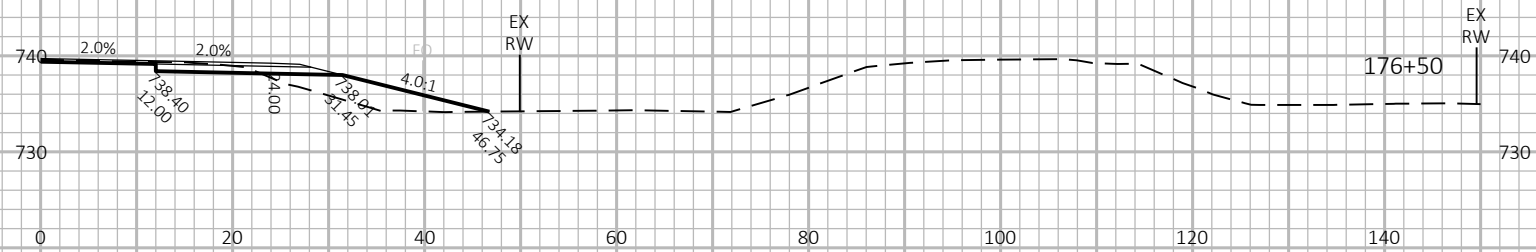
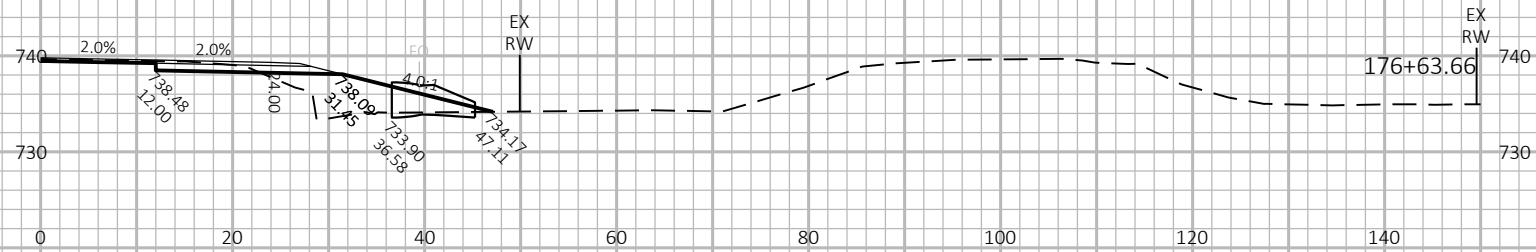
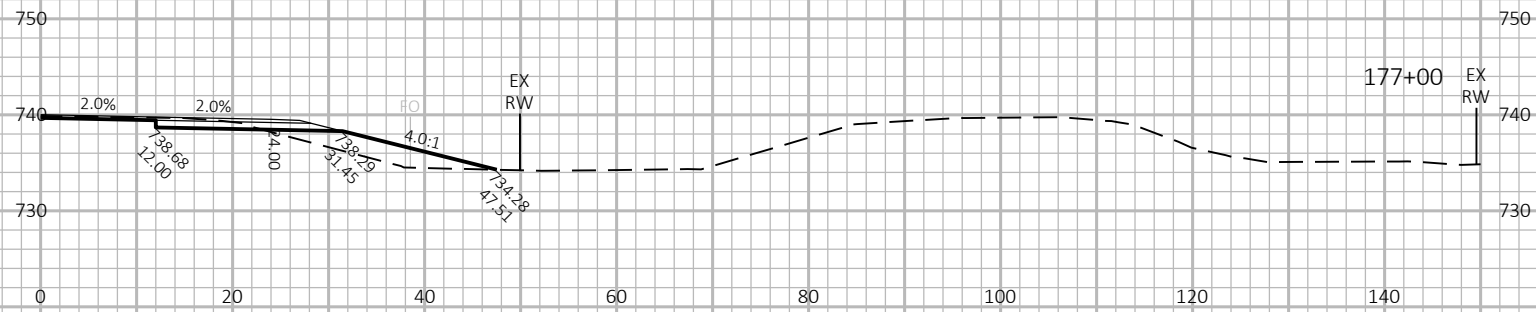
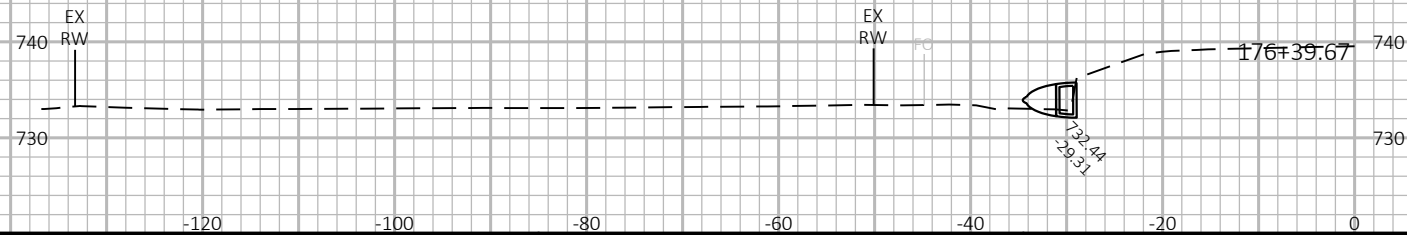
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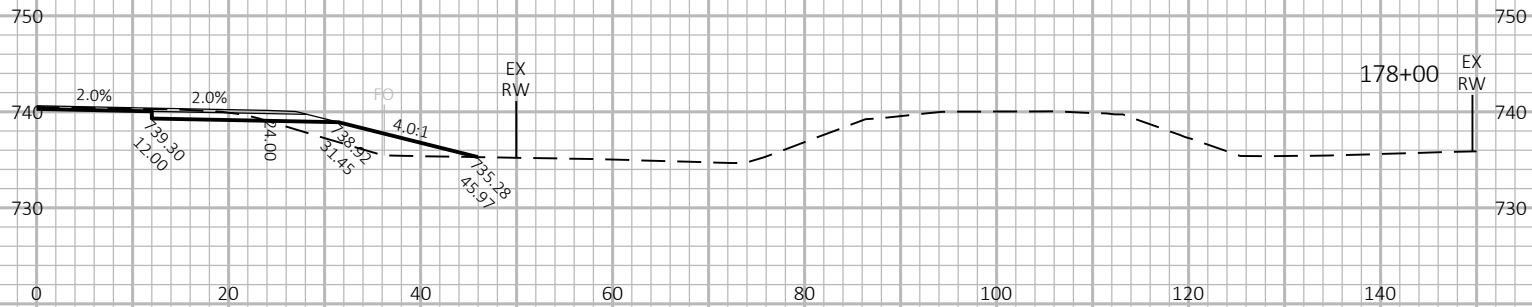
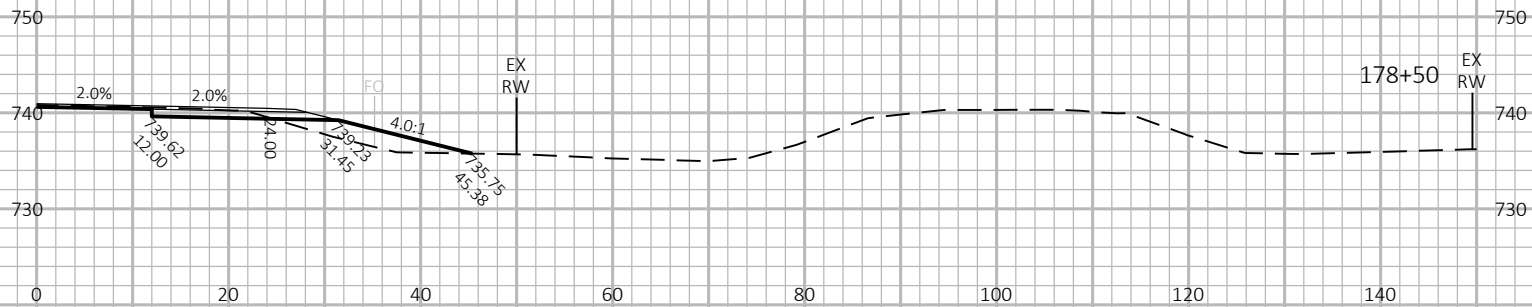
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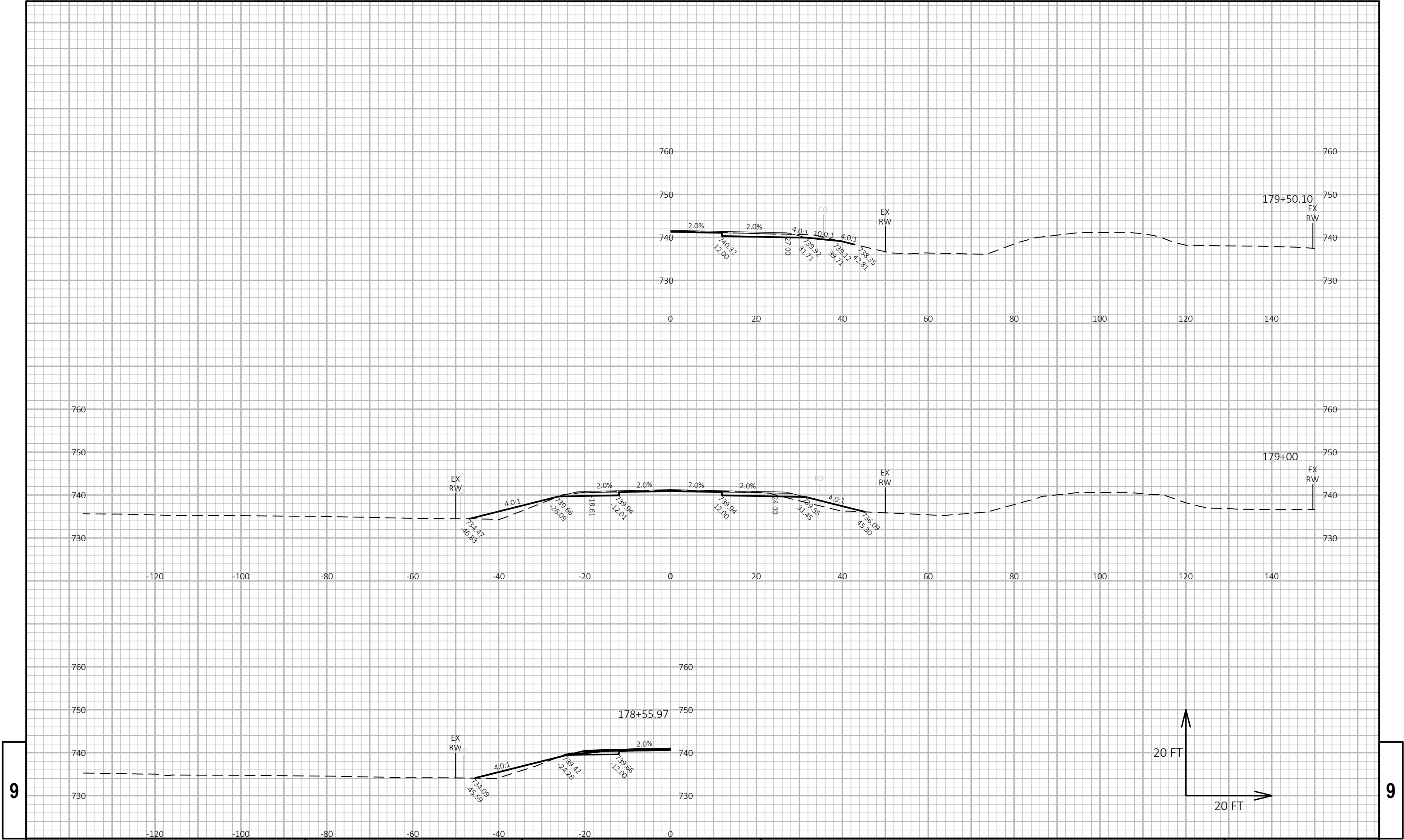
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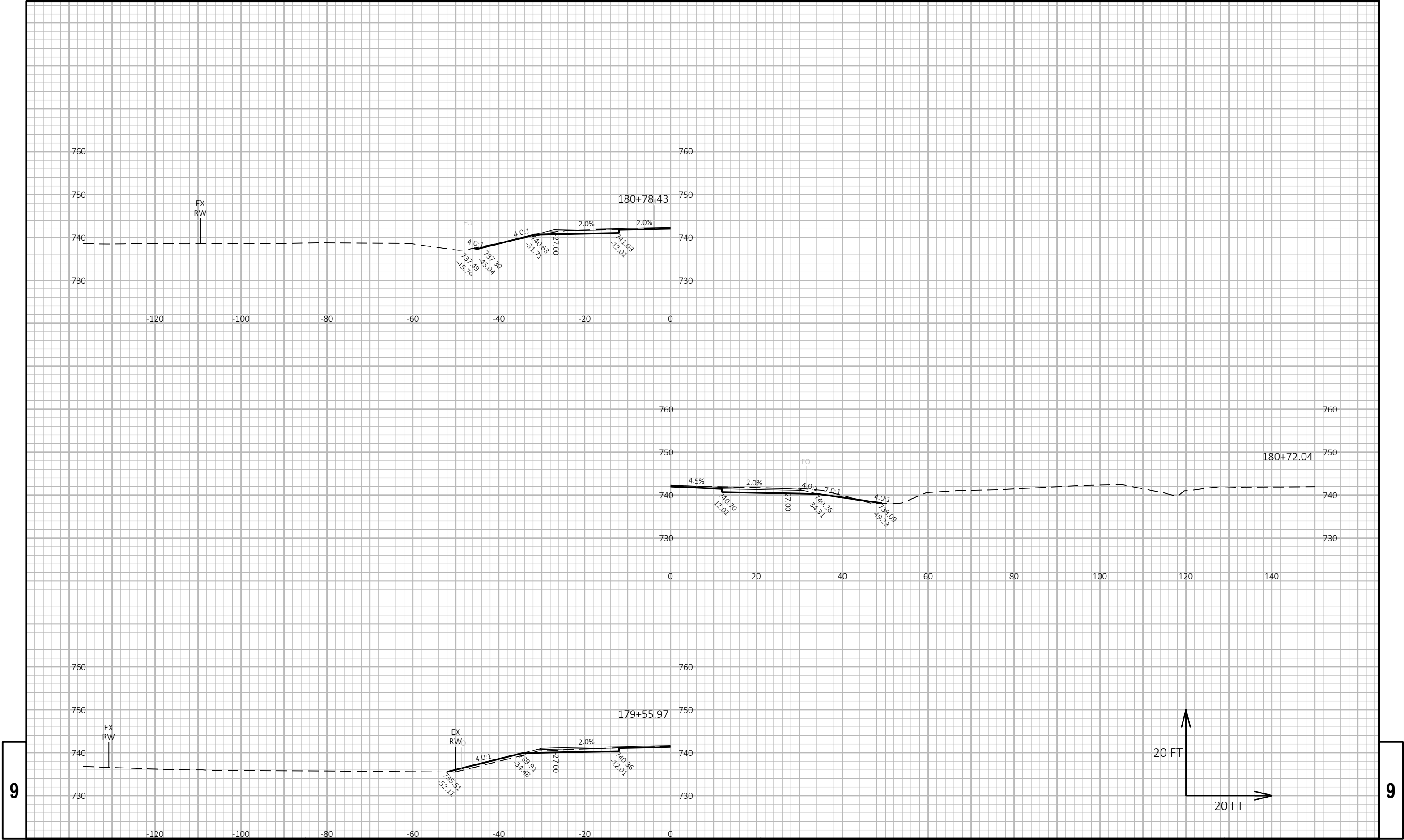
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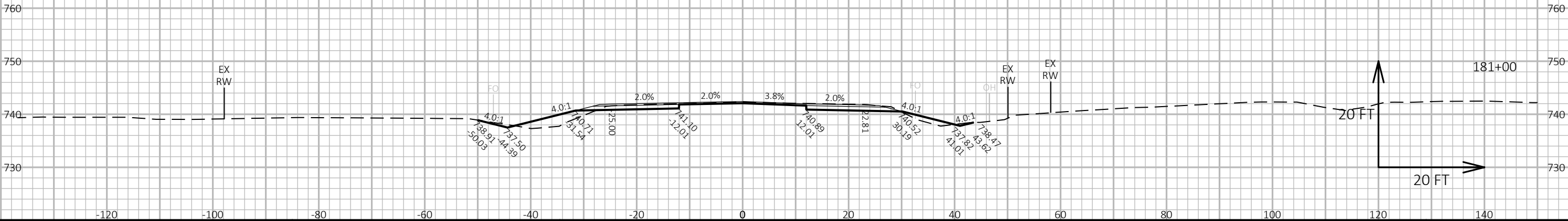
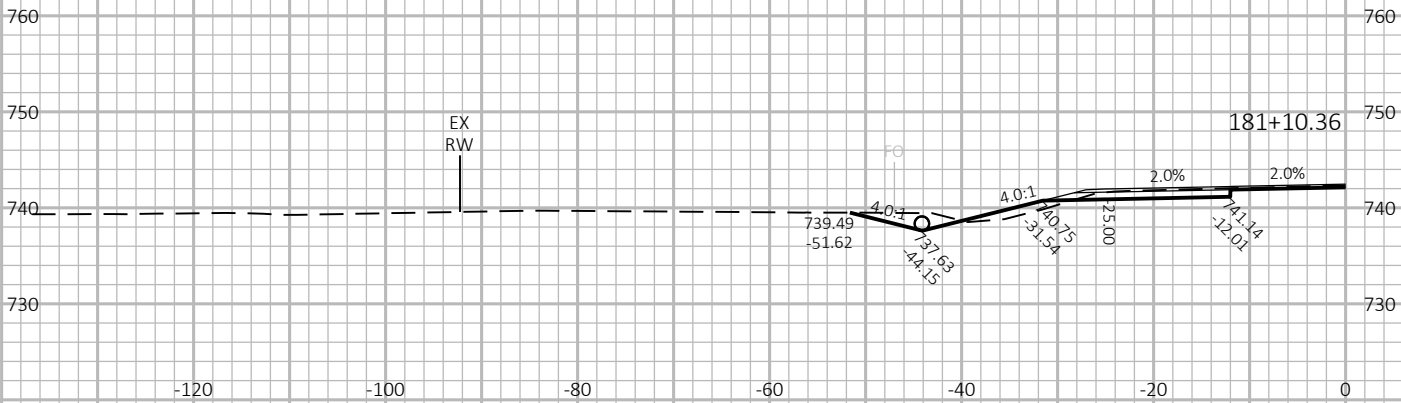
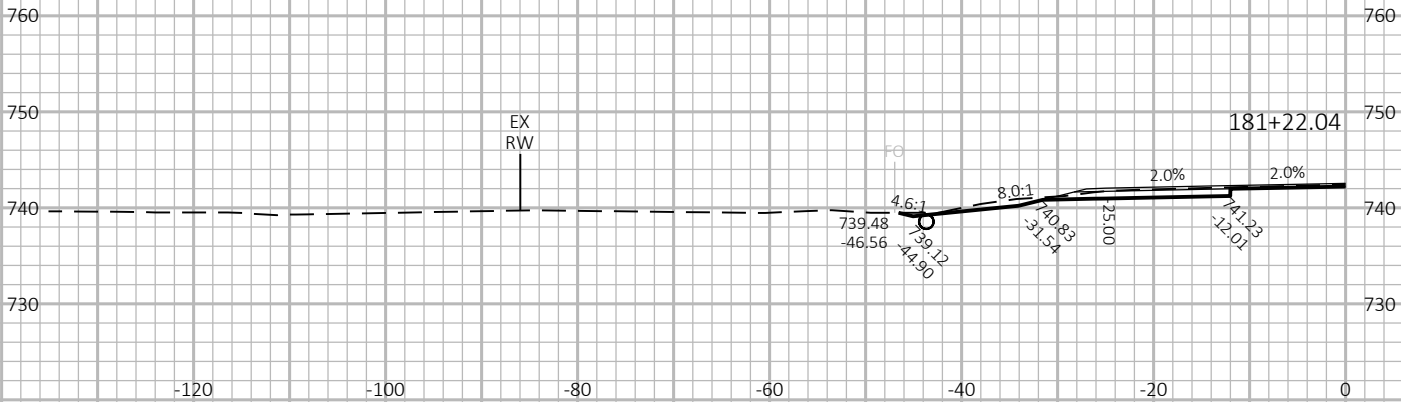
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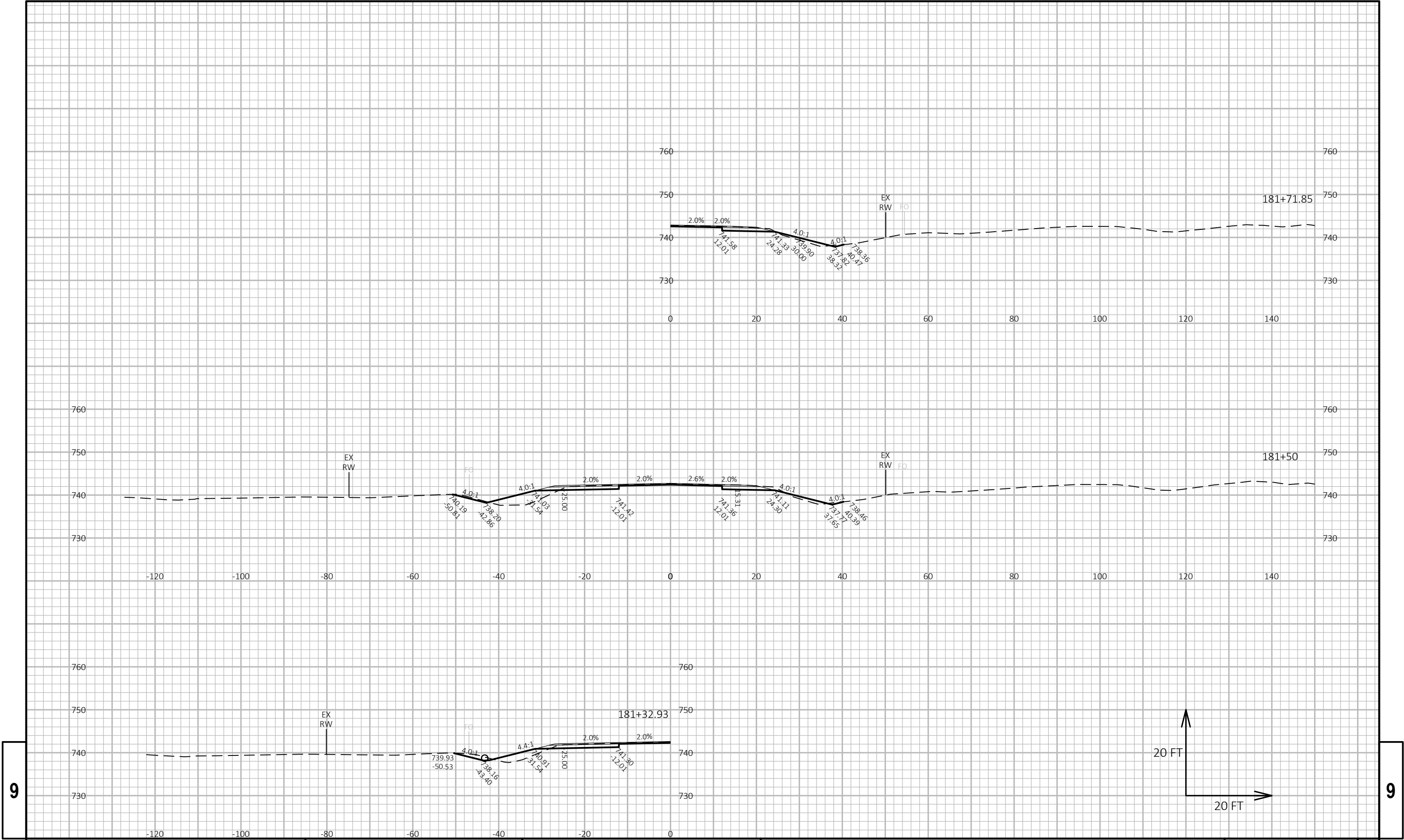




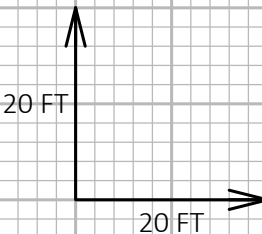
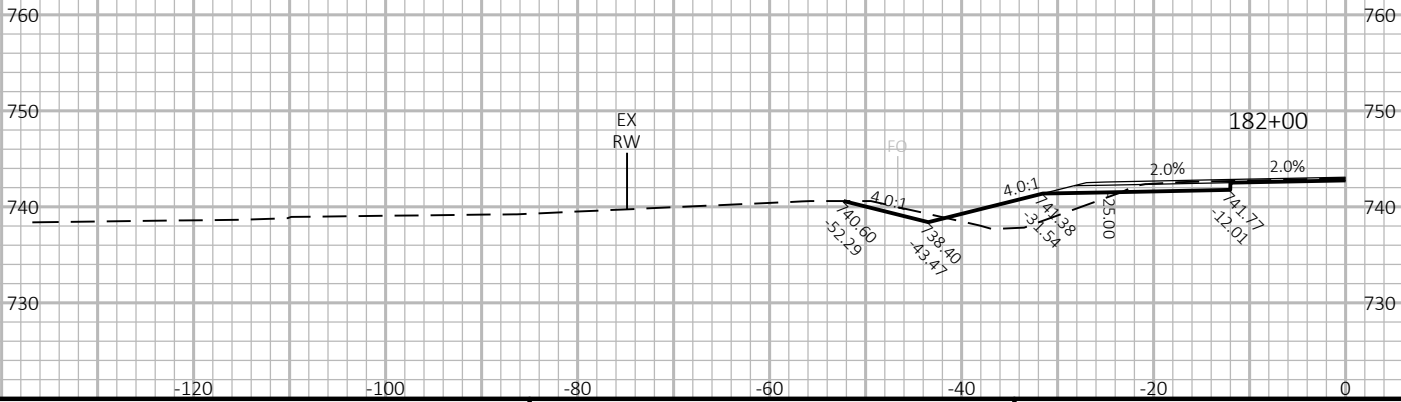
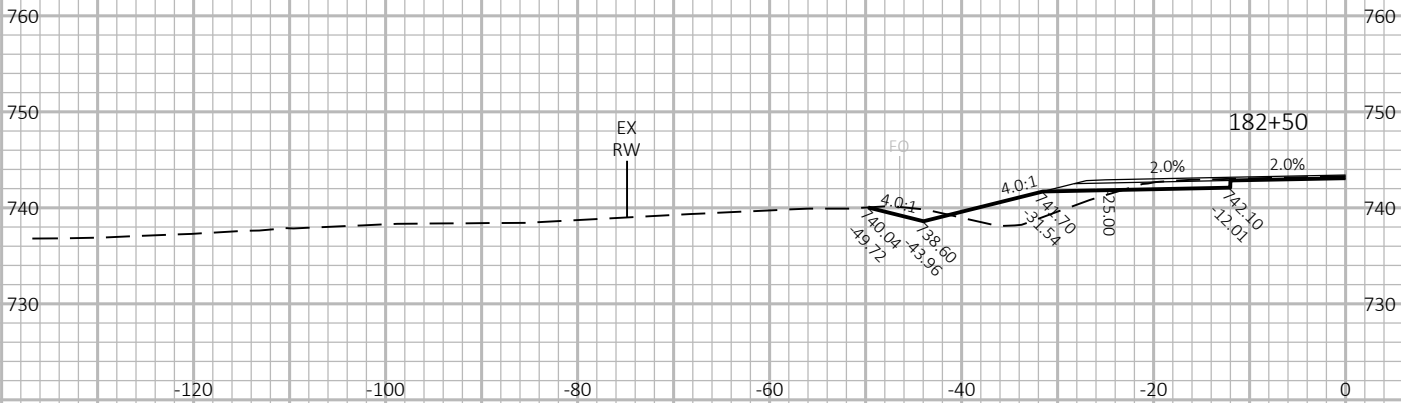
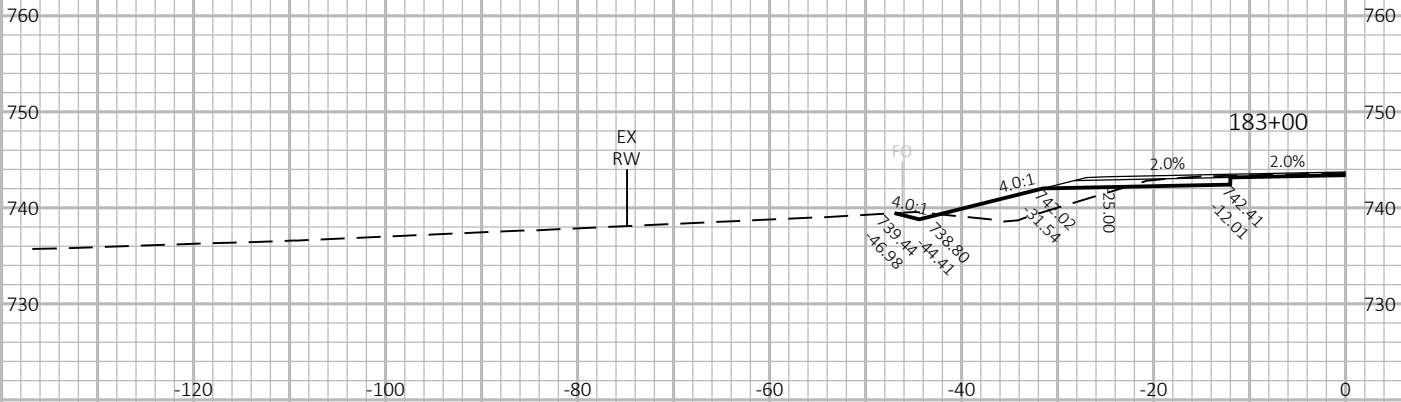
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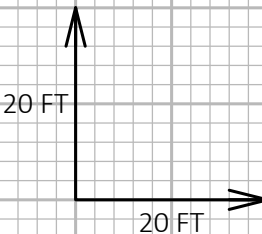
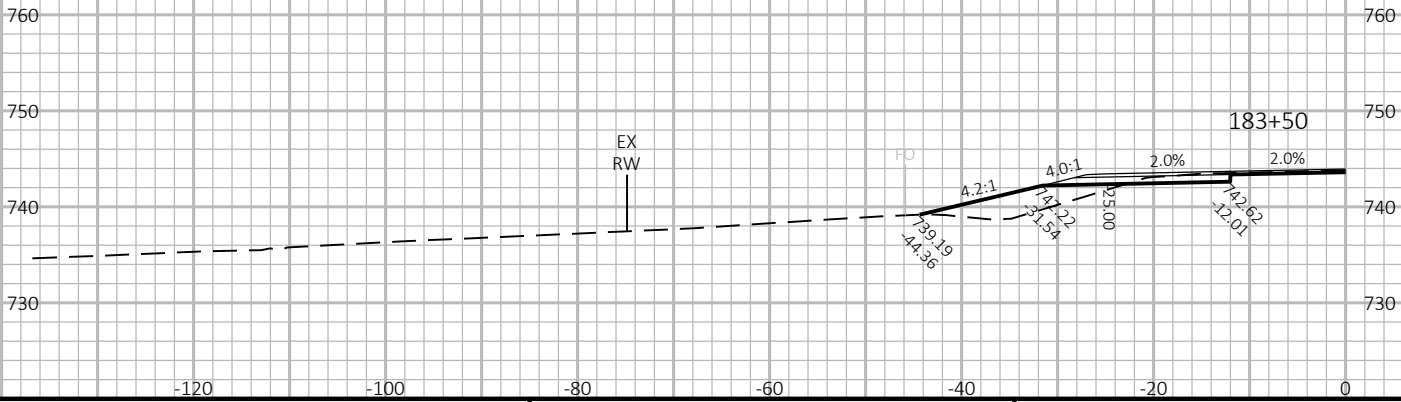
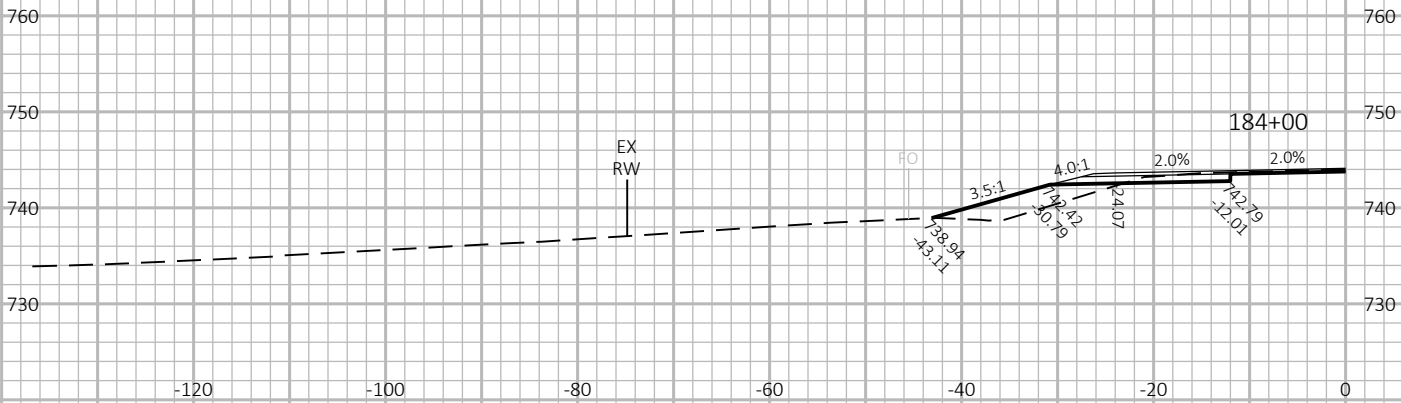
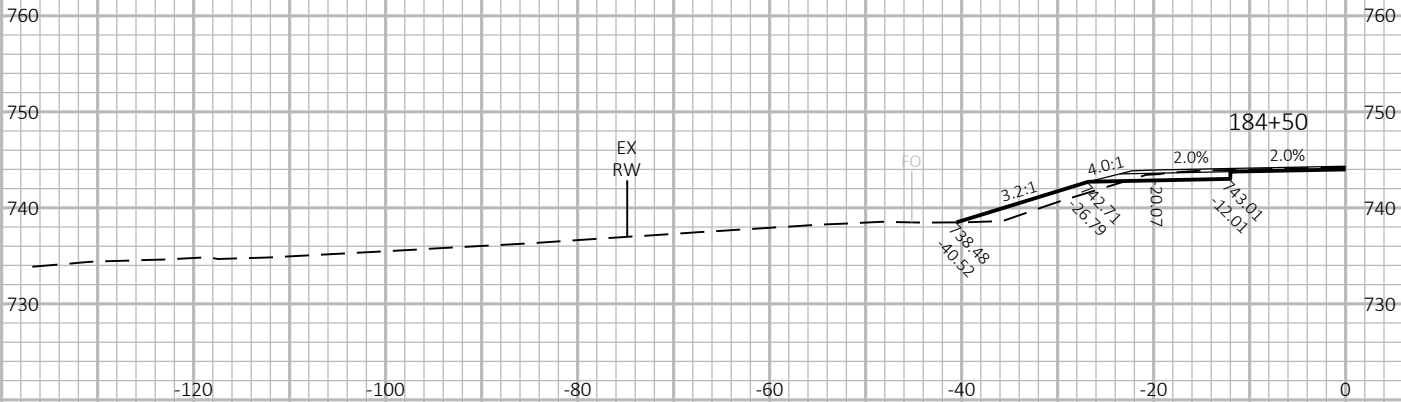


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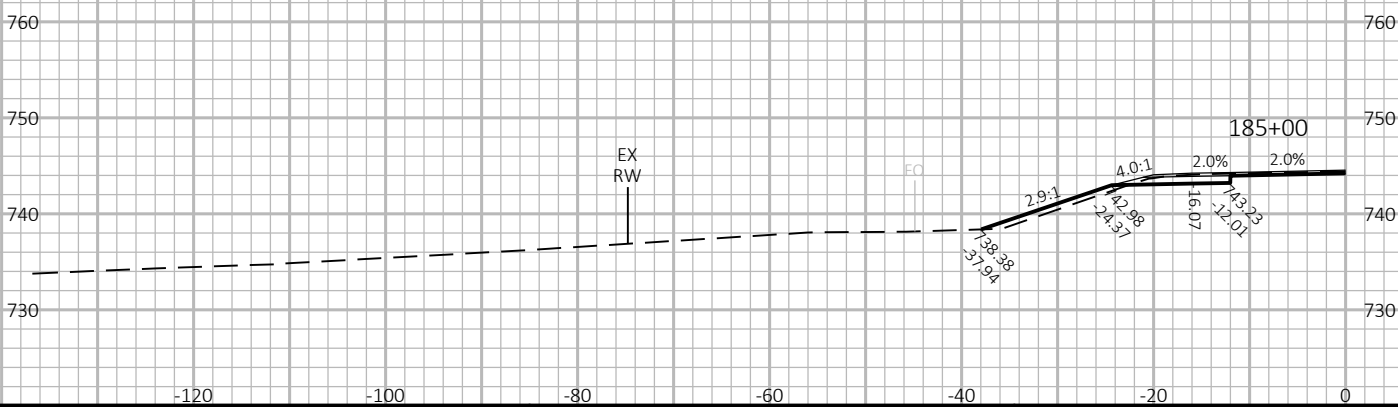
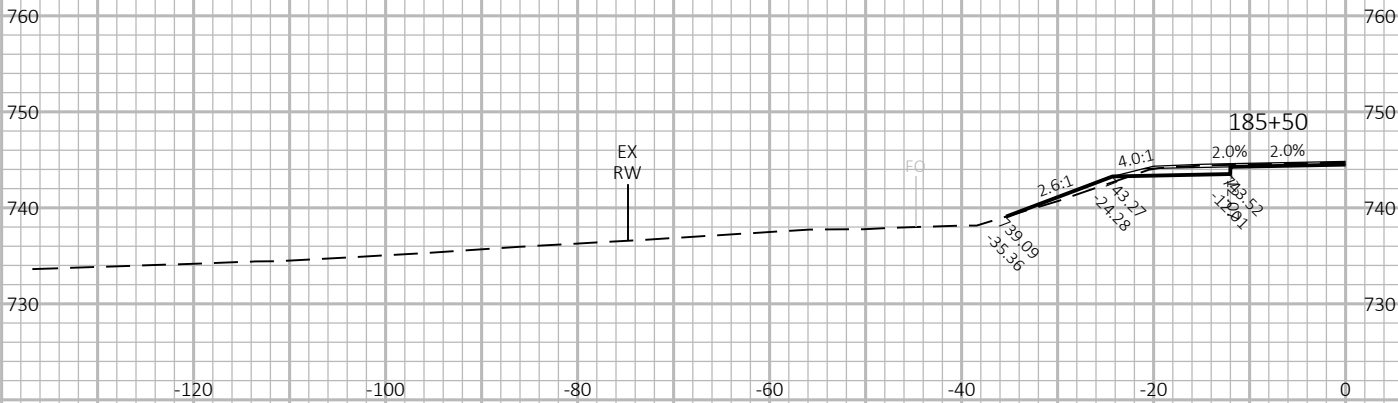
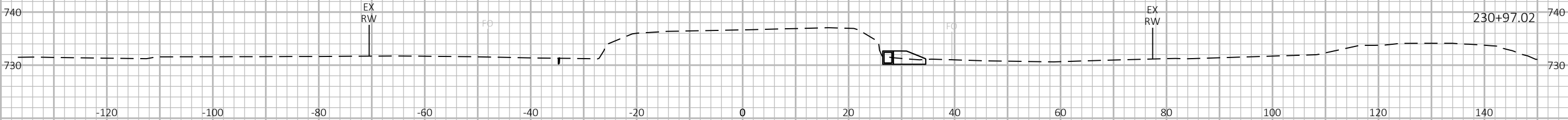
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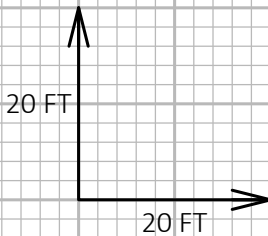
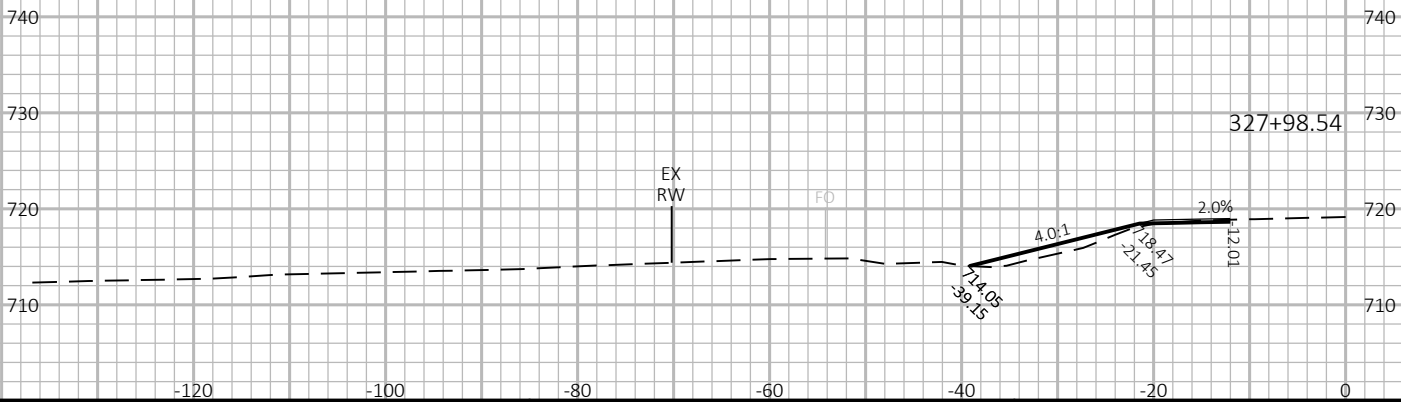
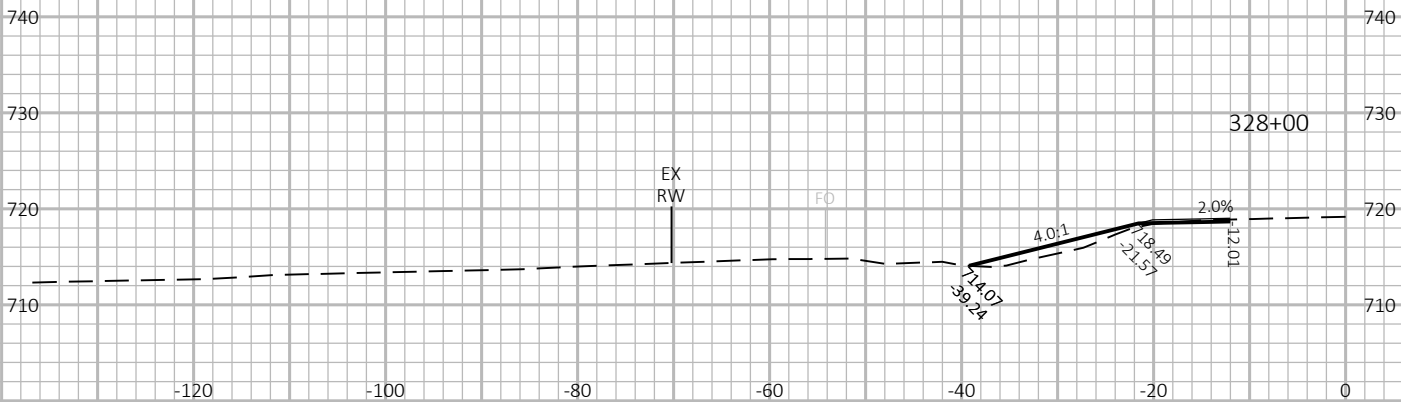
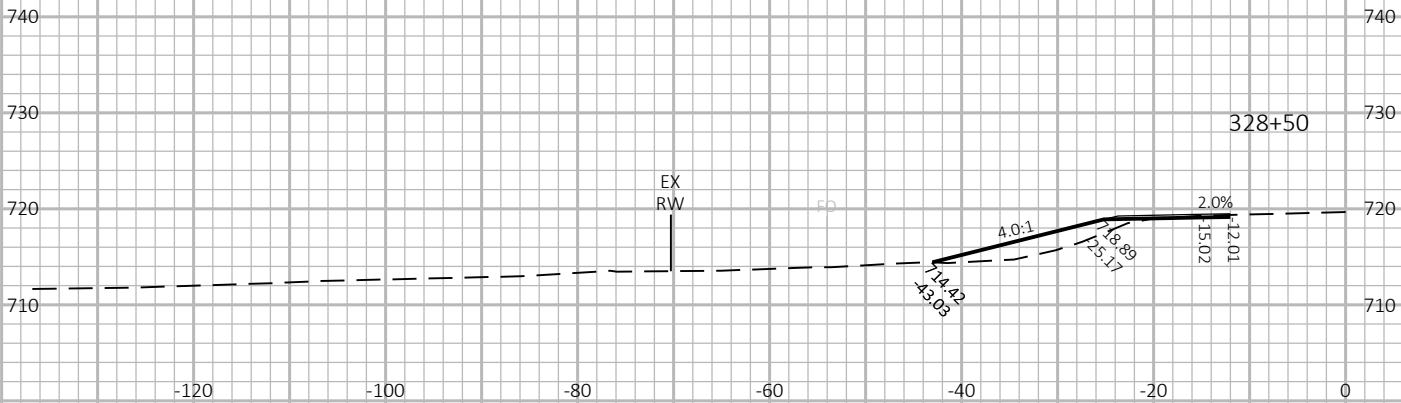


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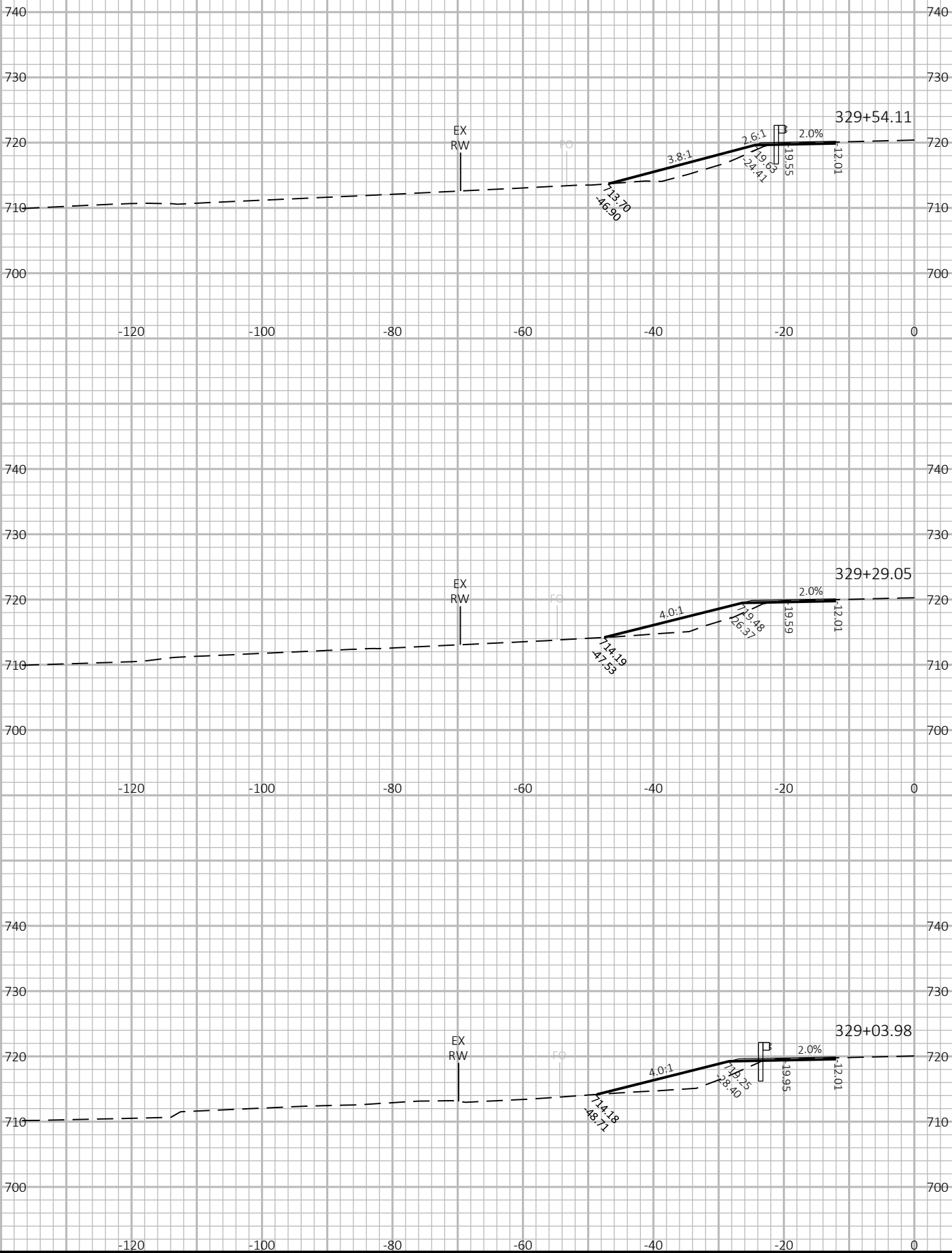
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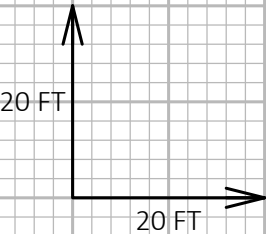
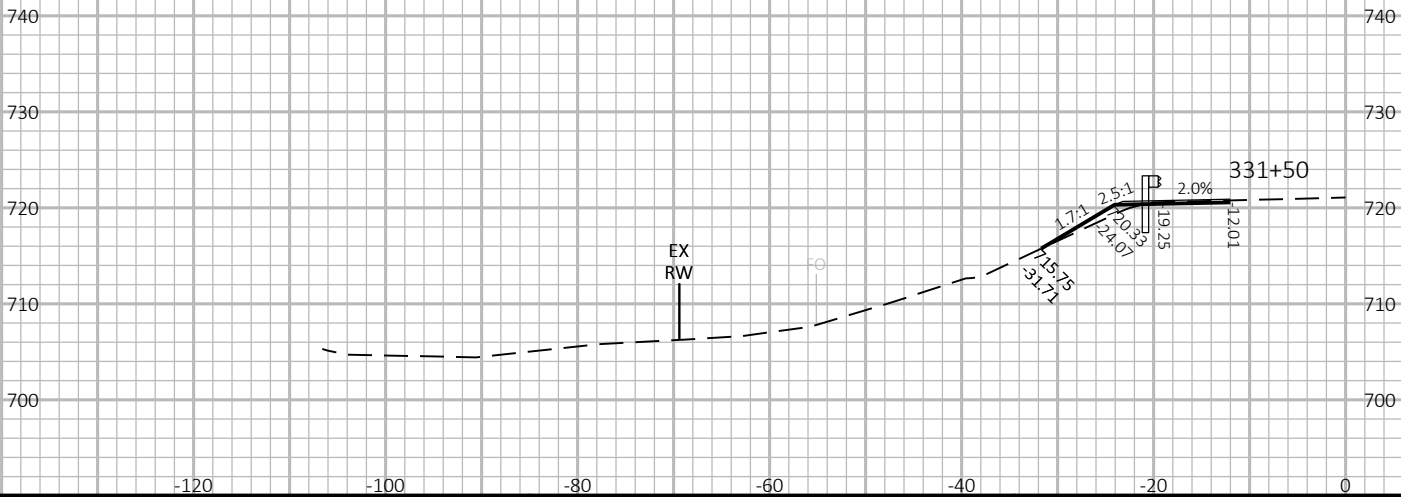
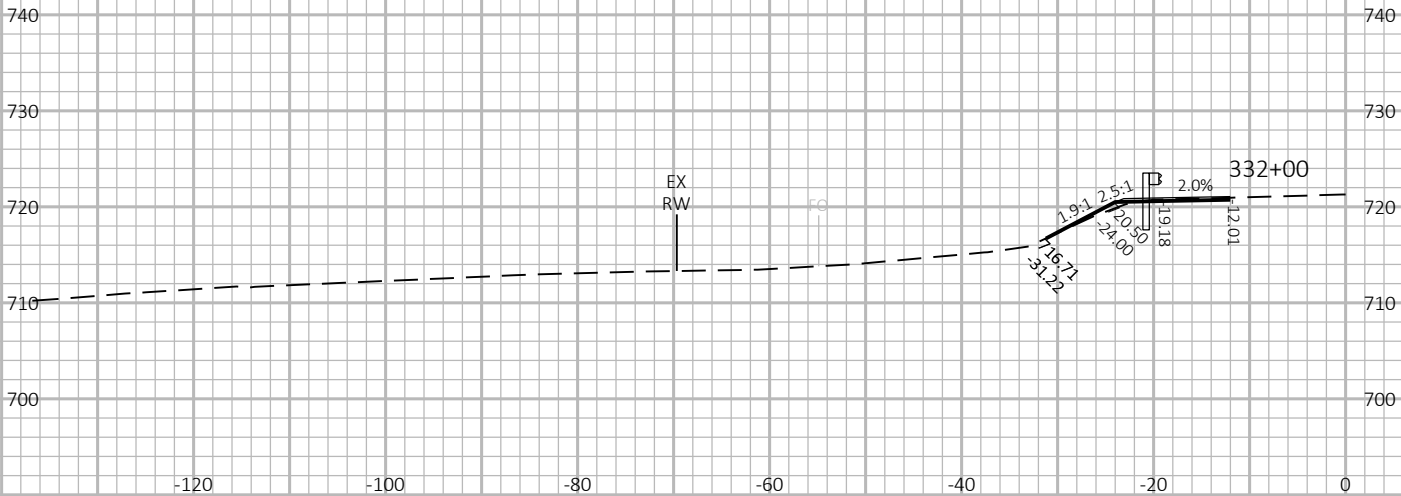
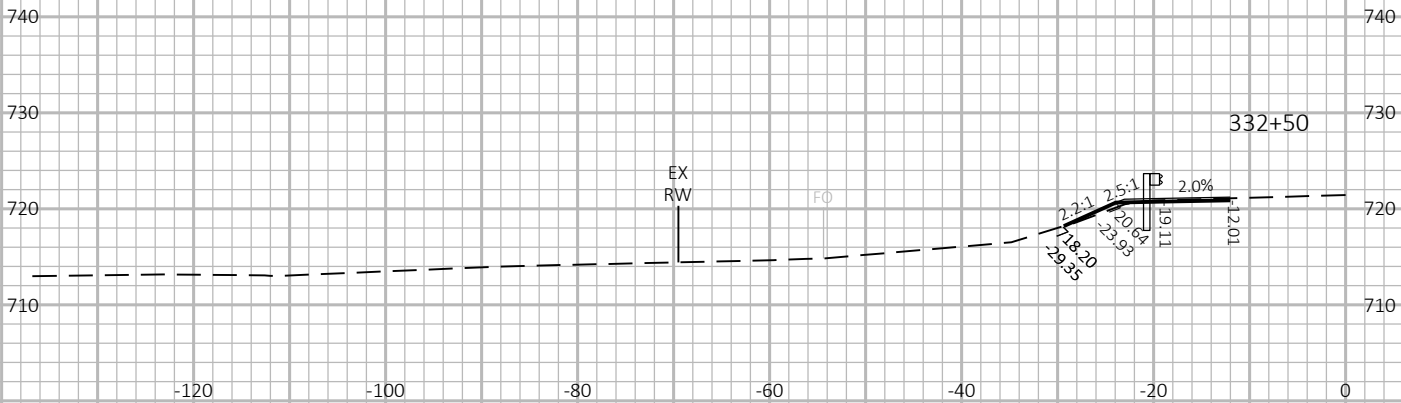


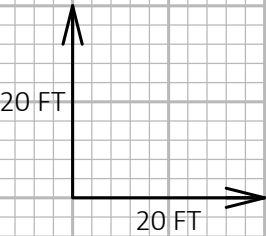
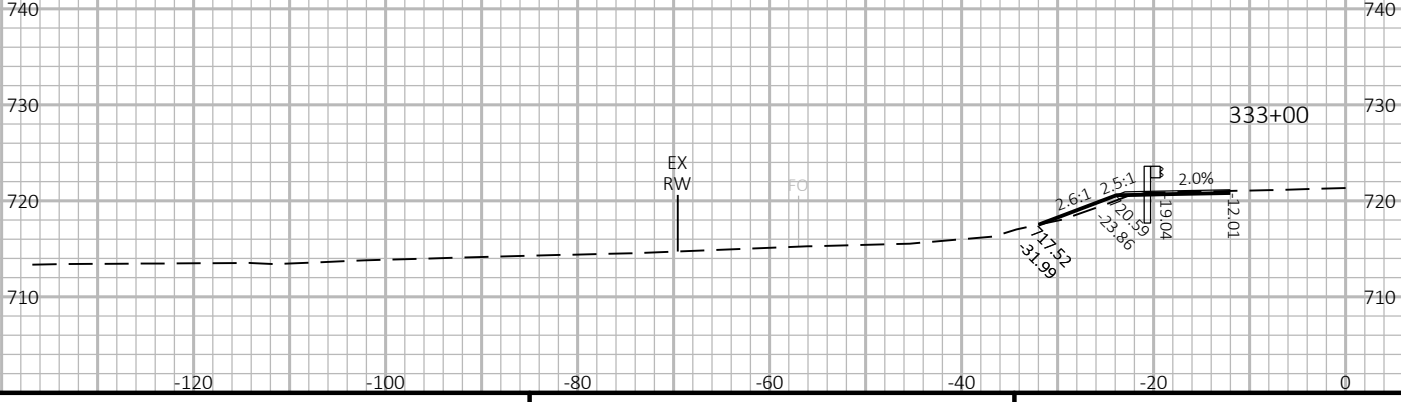
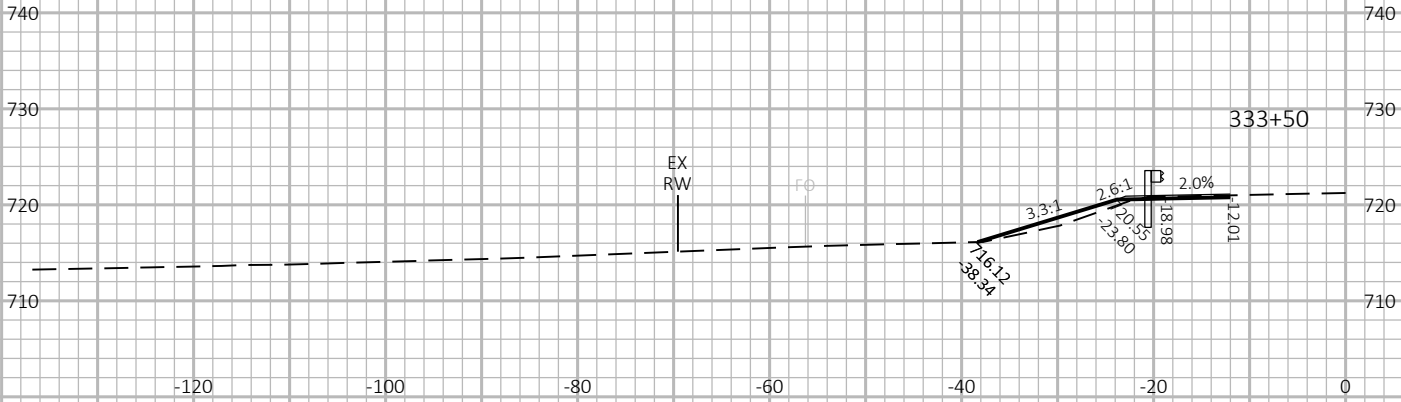
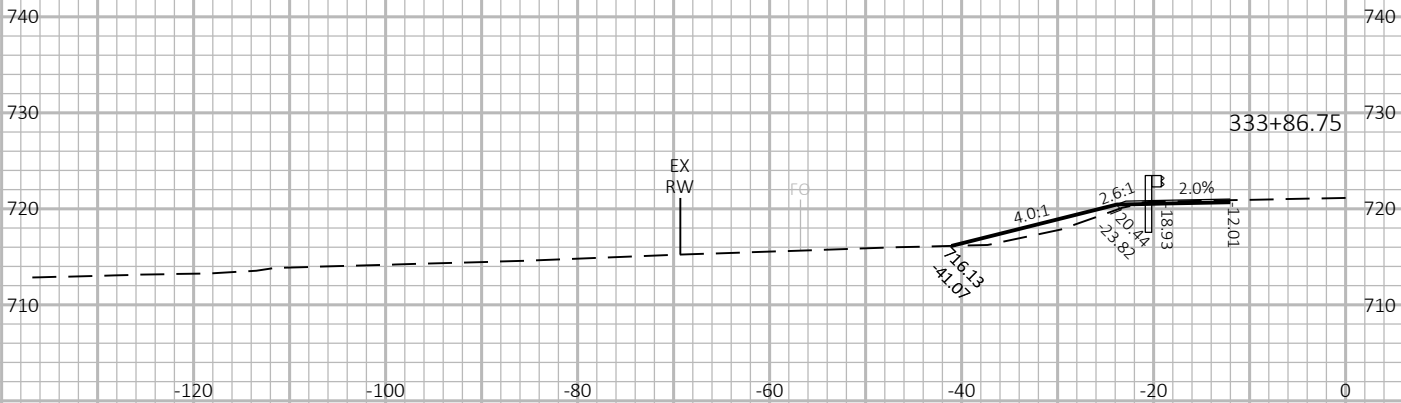
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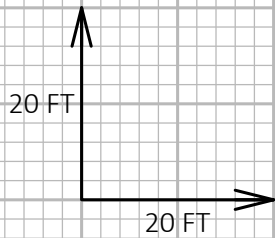
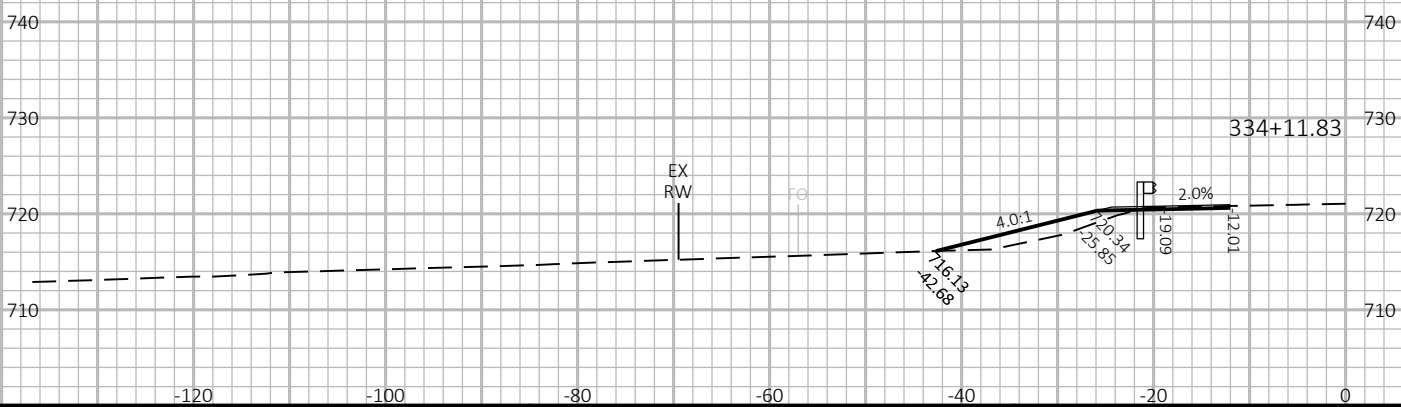
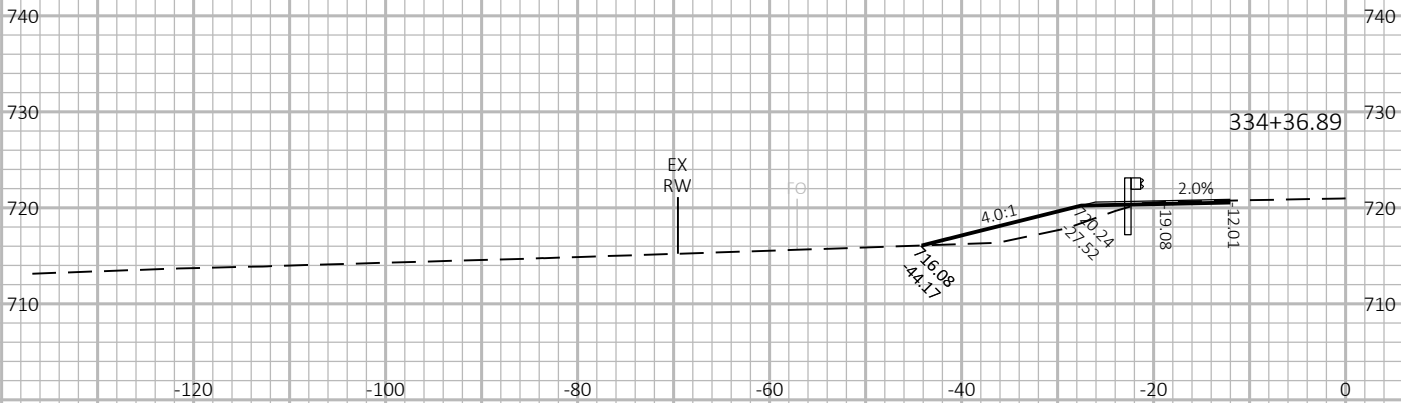
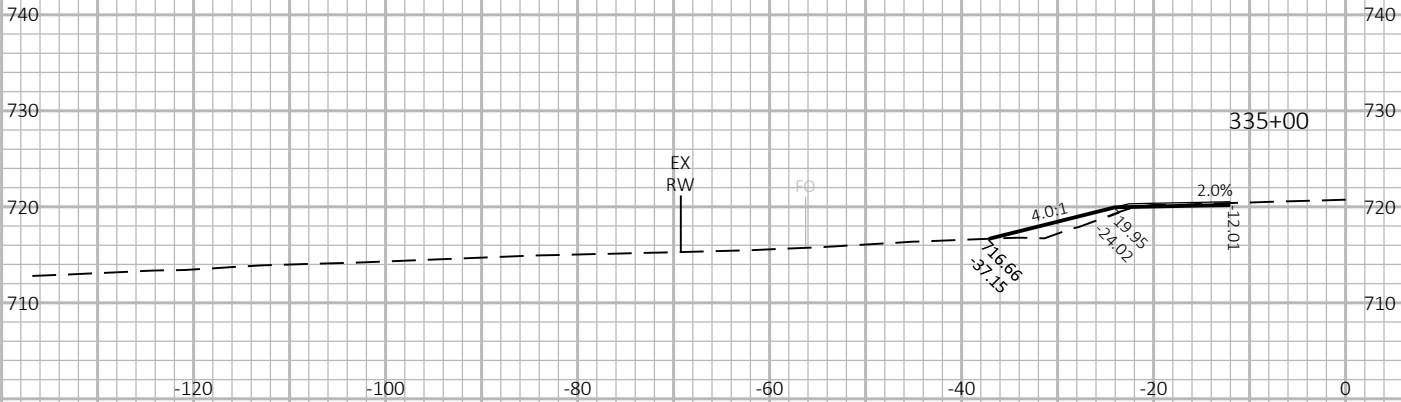
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PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	CROSS SECTIONS: STH 32	SHEET	E
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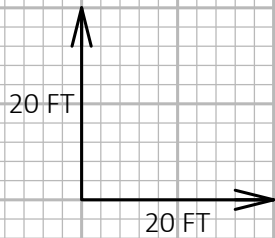
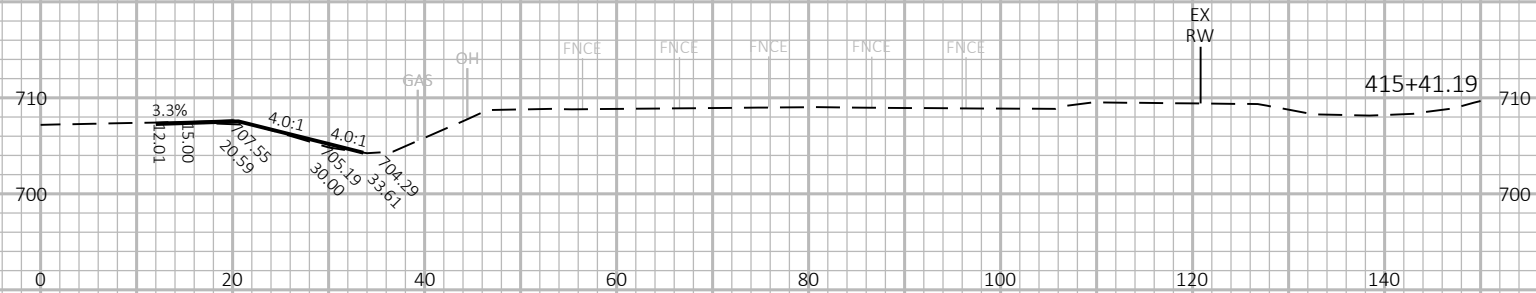
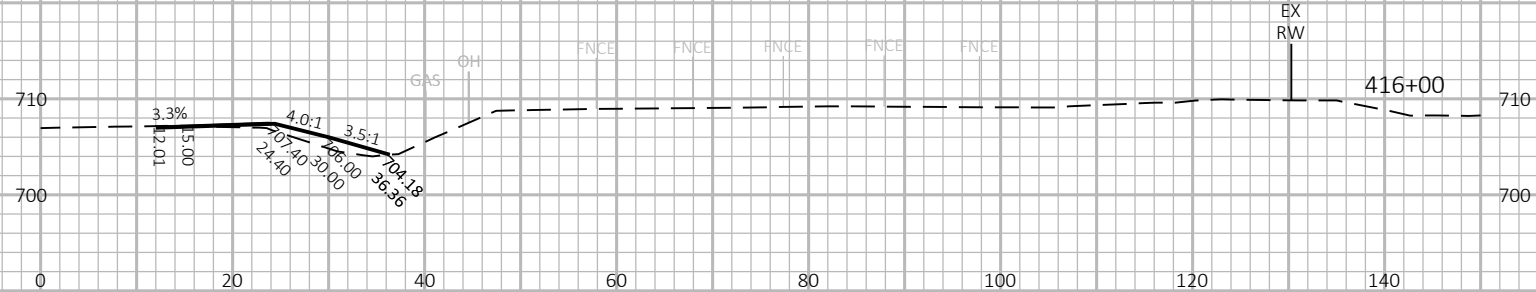
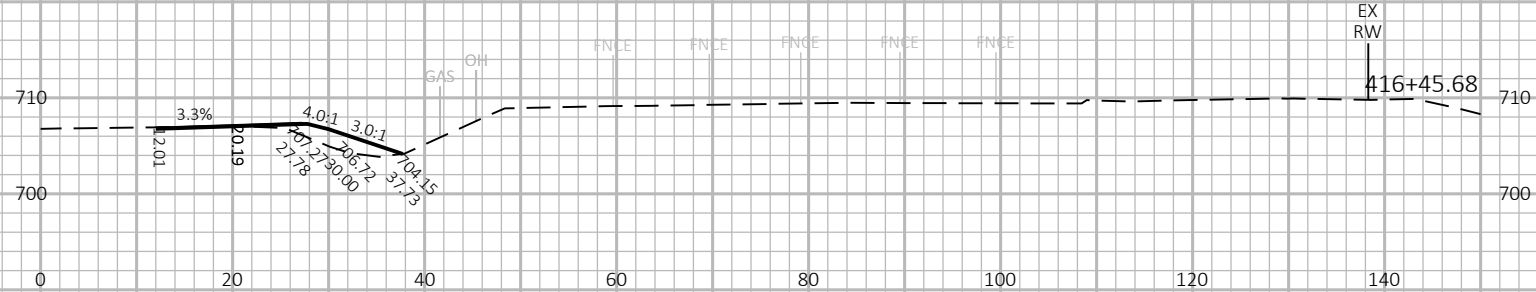
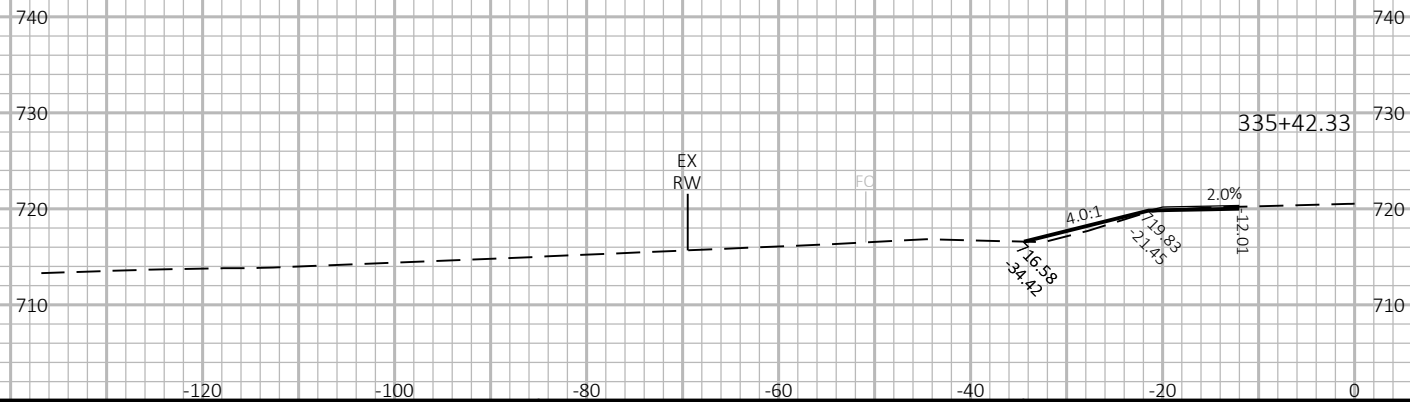


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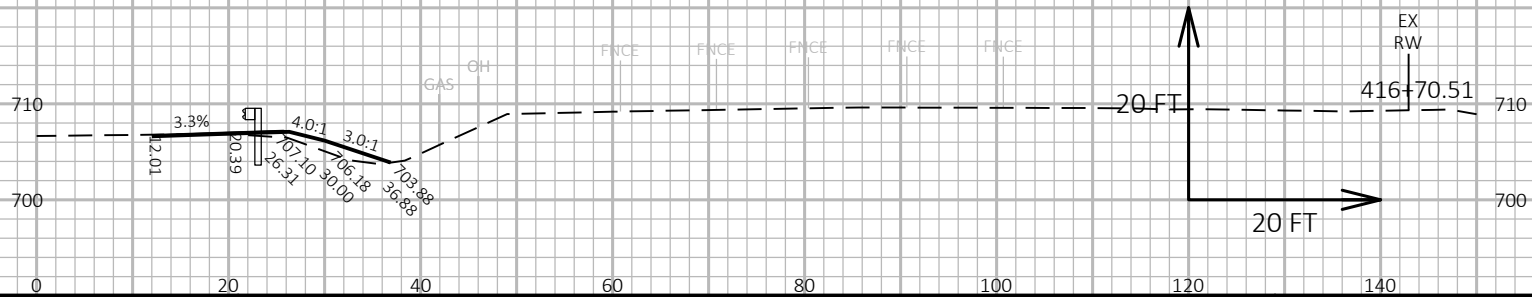
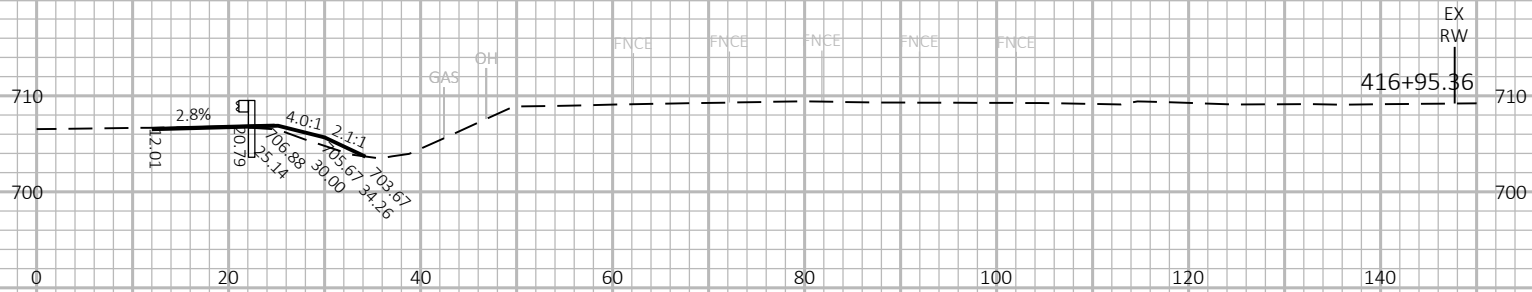
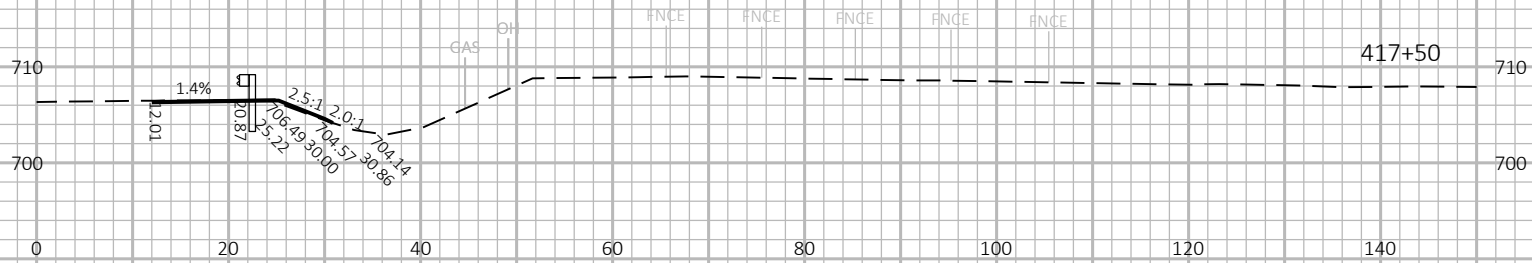
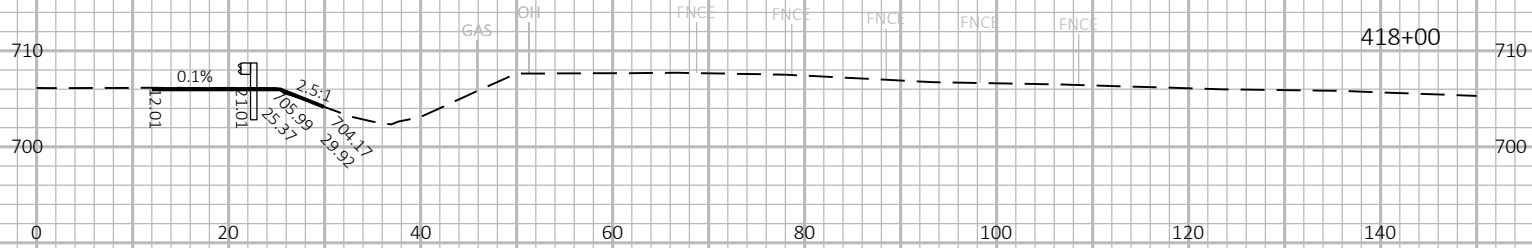
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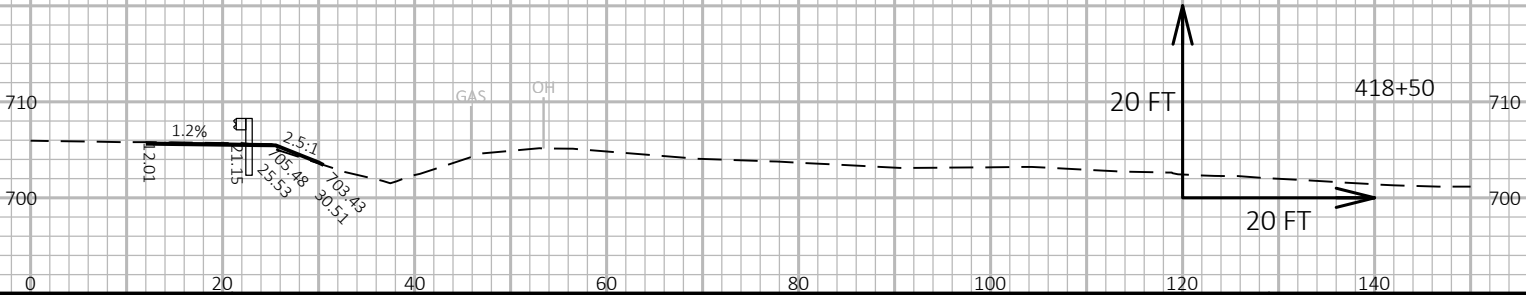
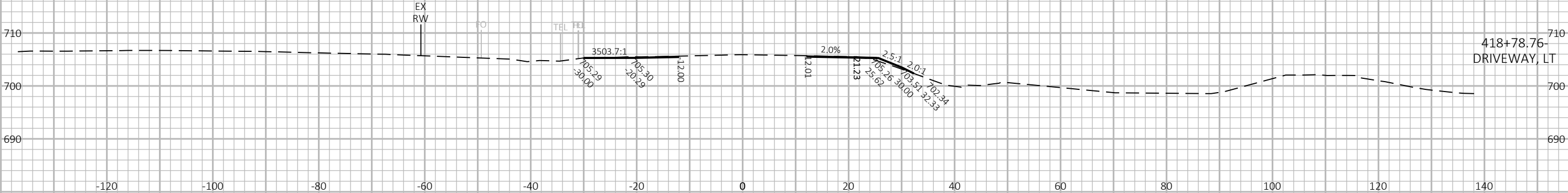
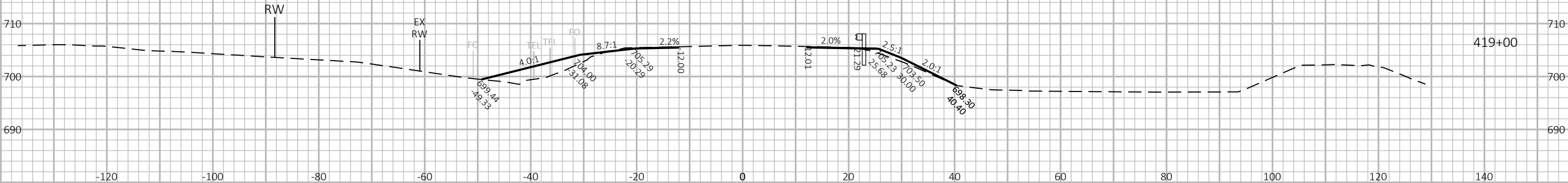


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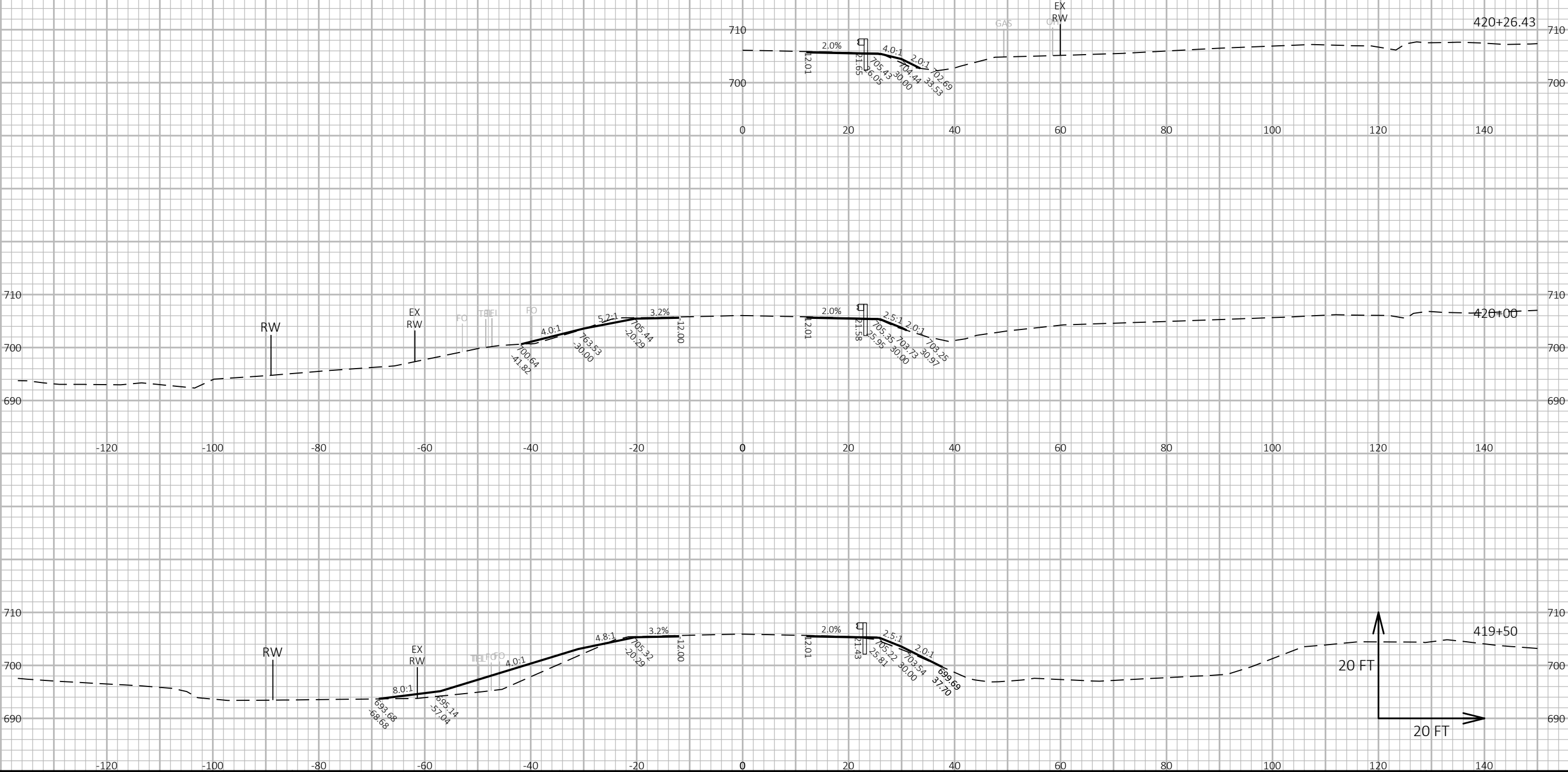
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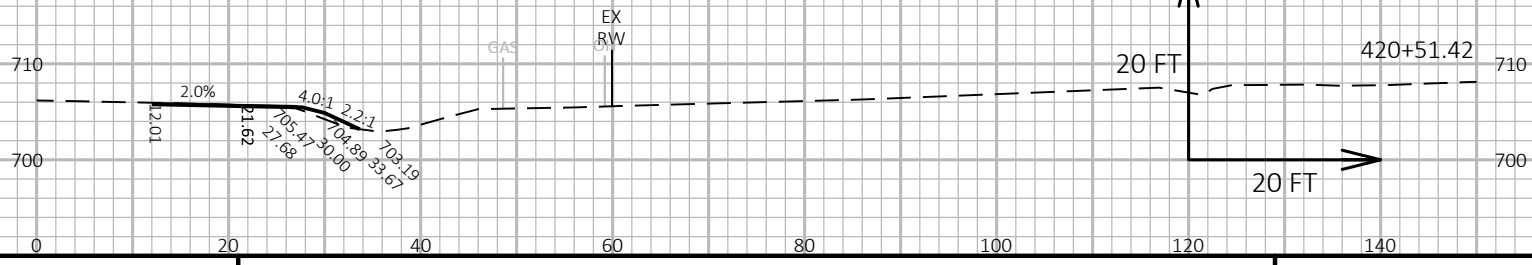
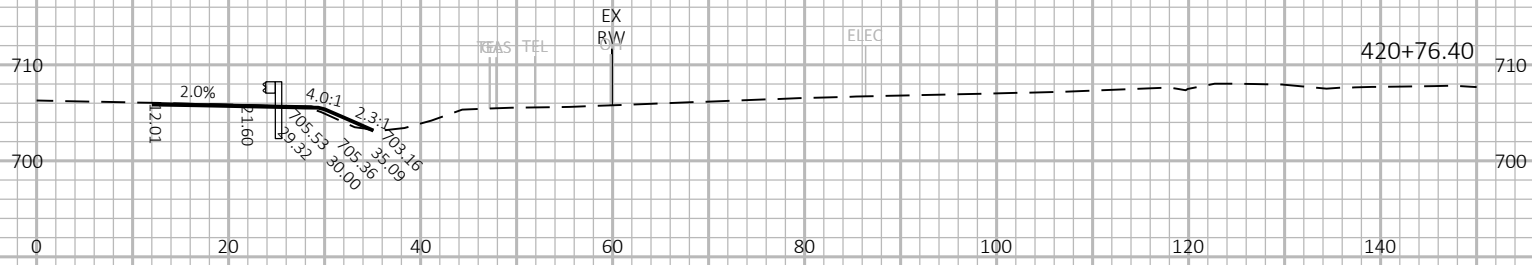
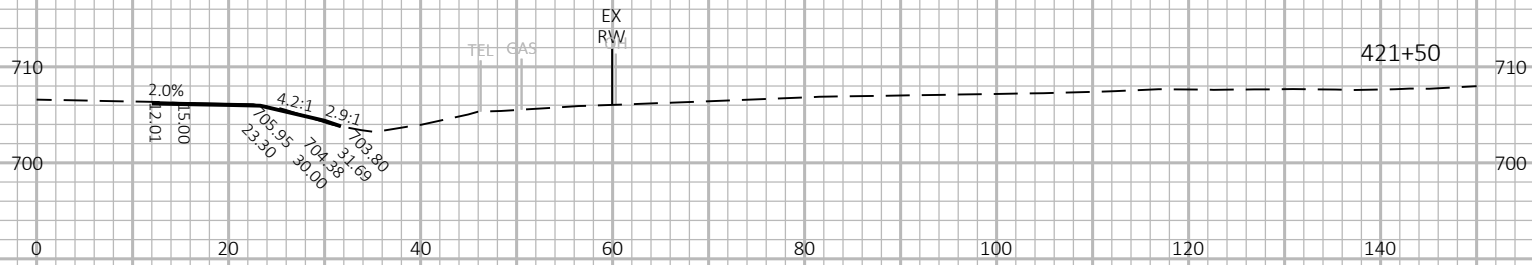
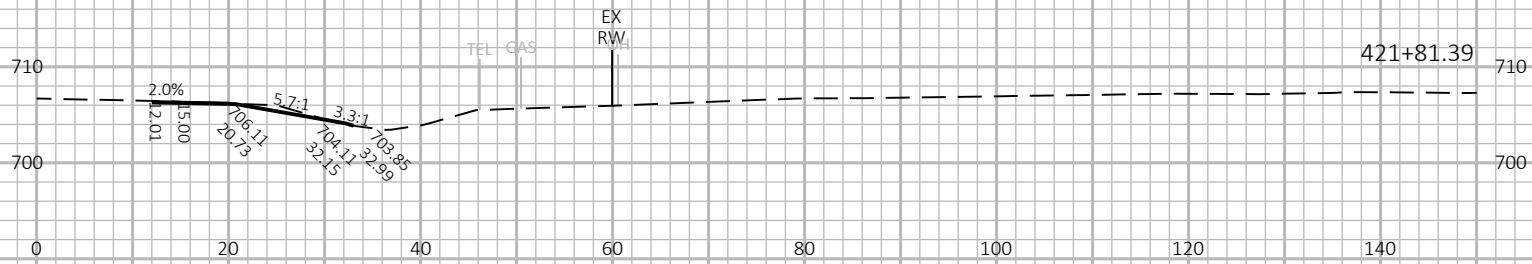


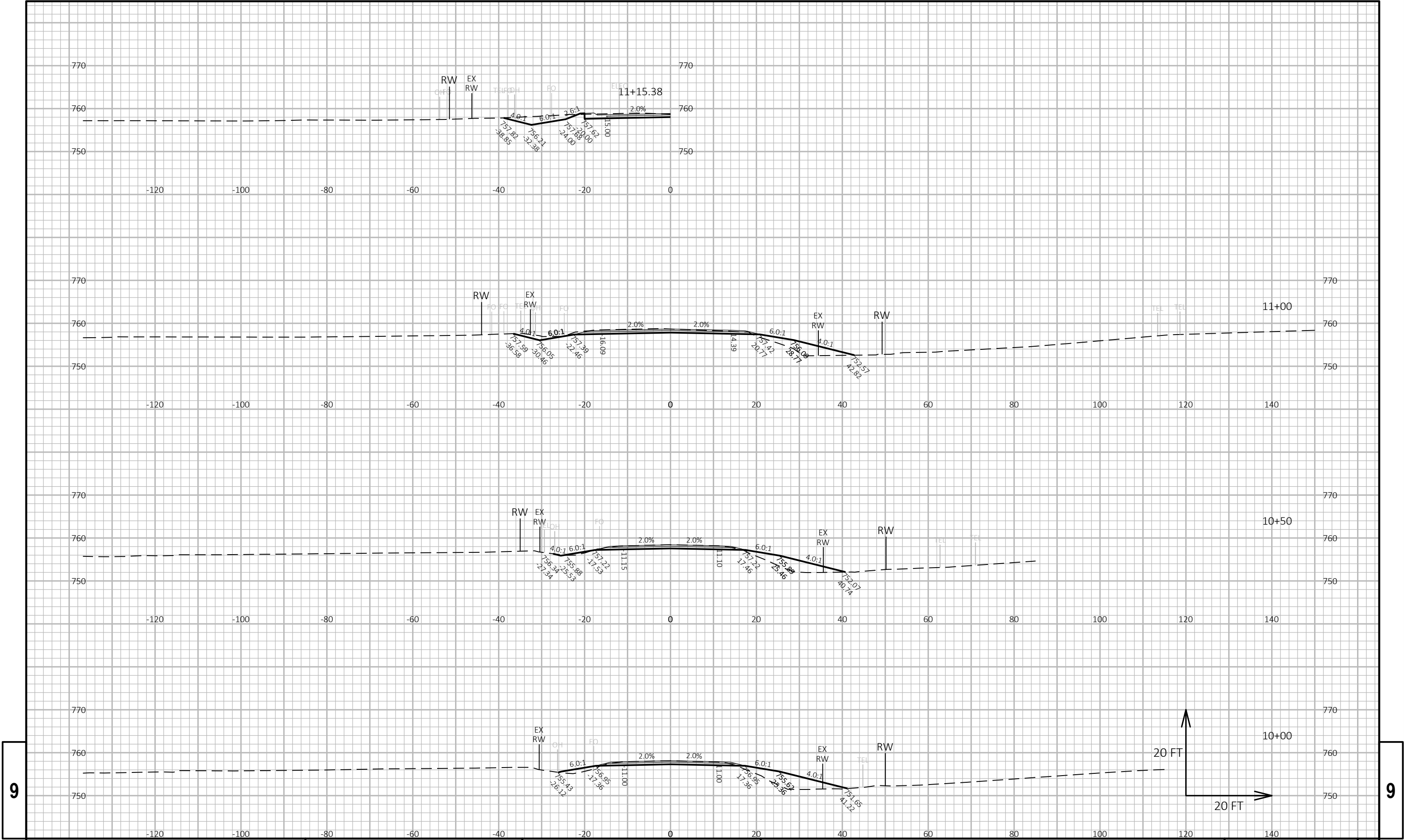
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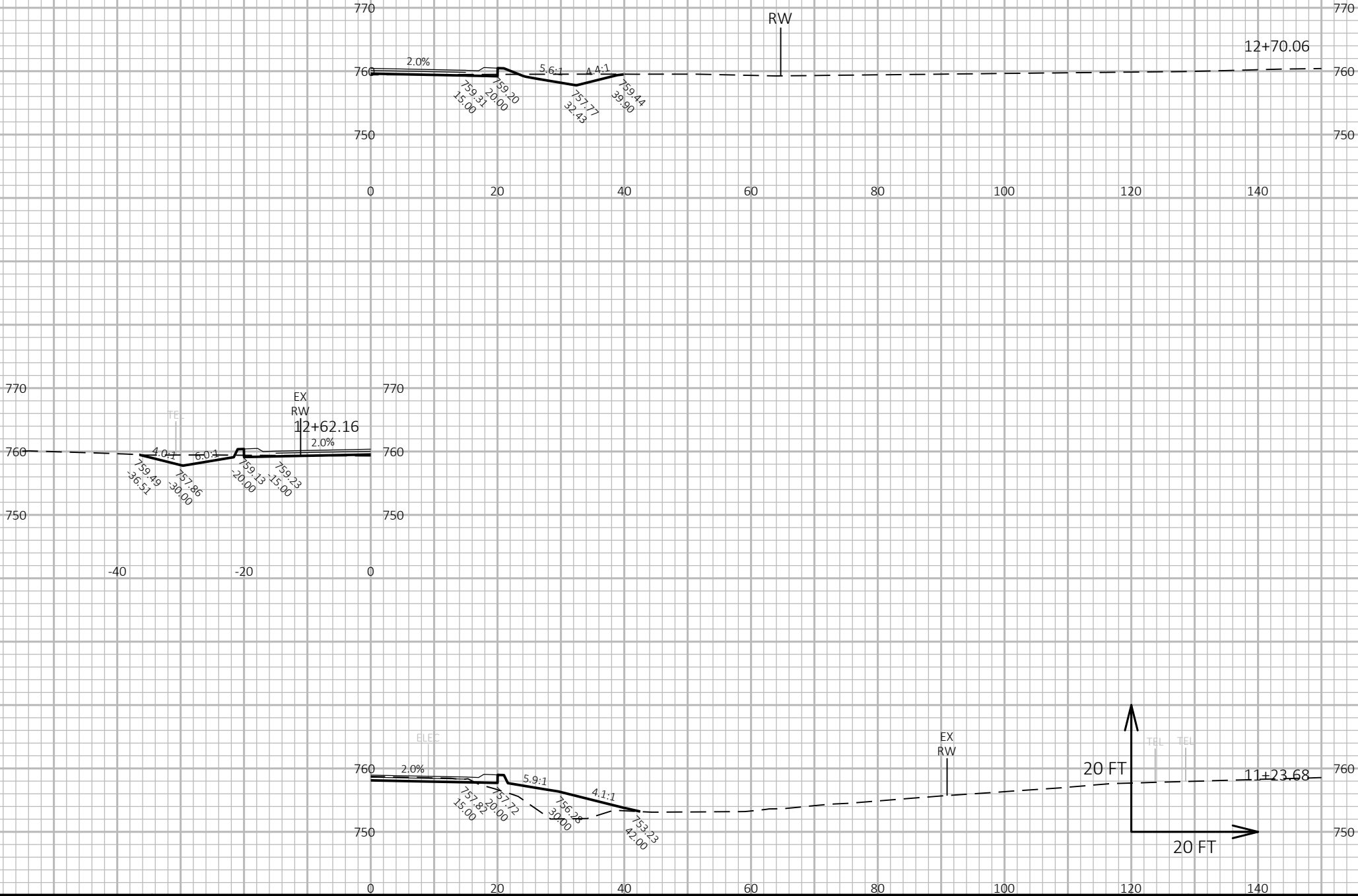
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PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	CROSS SECTIONS: STH 32	SHEET E
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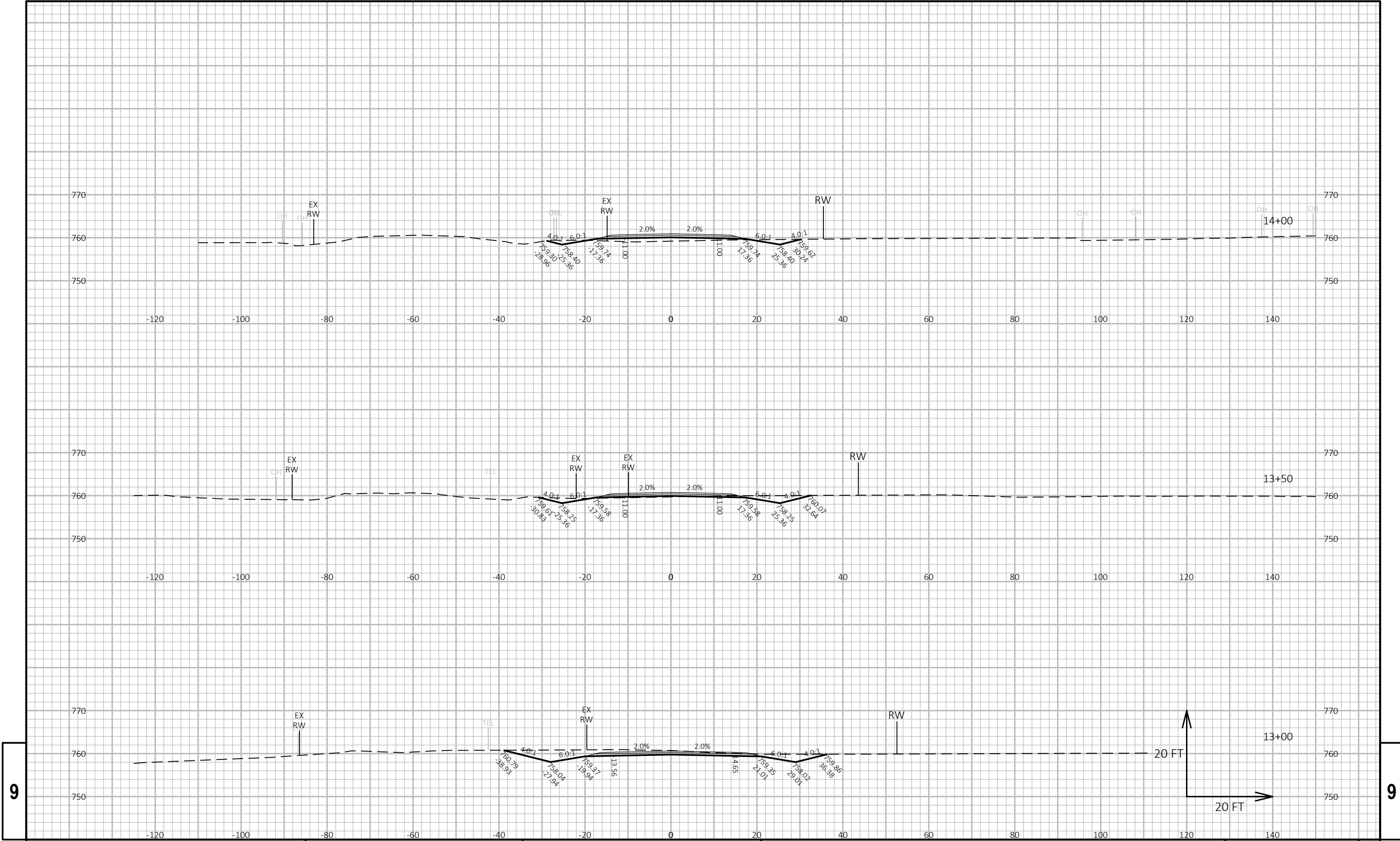




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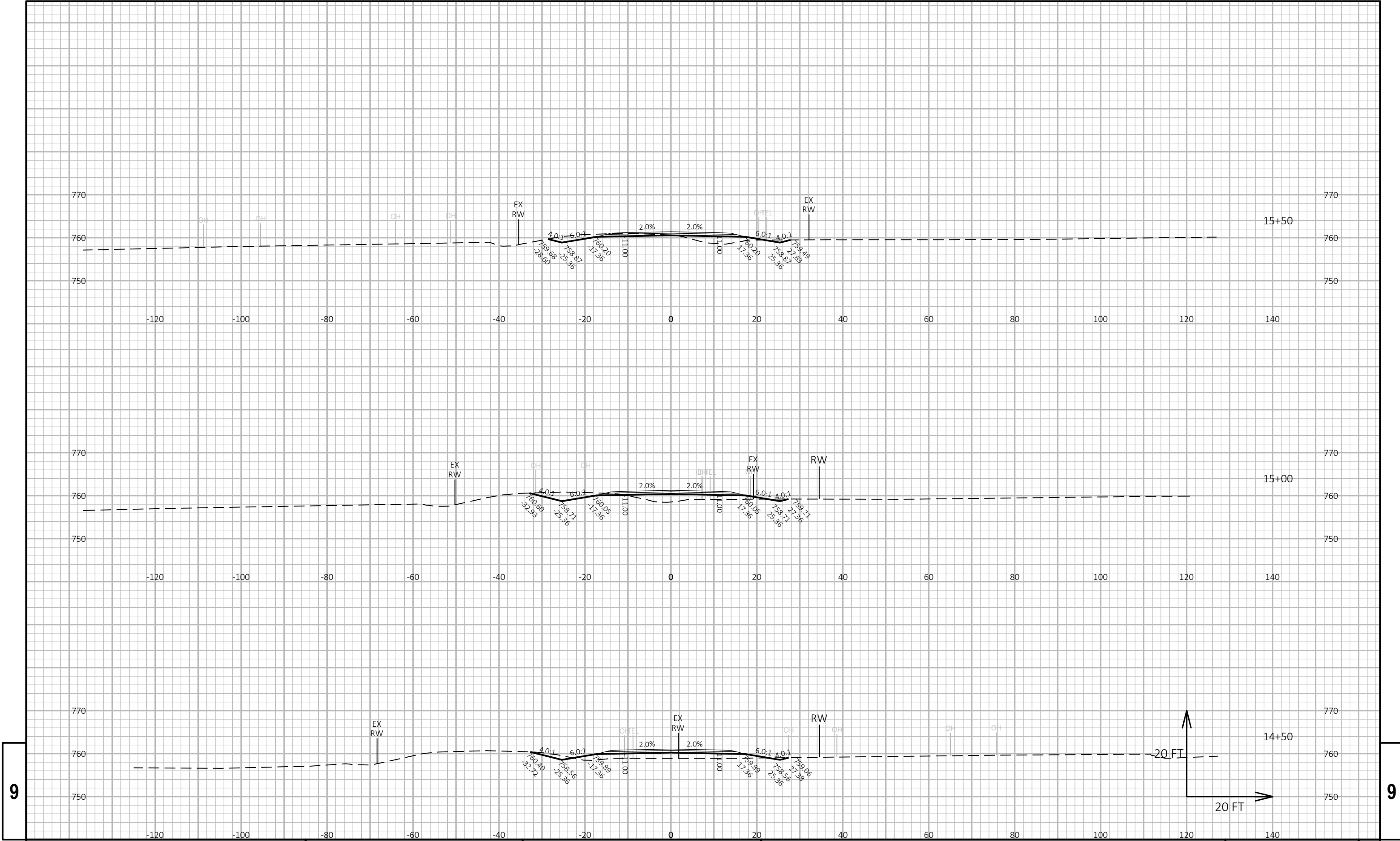
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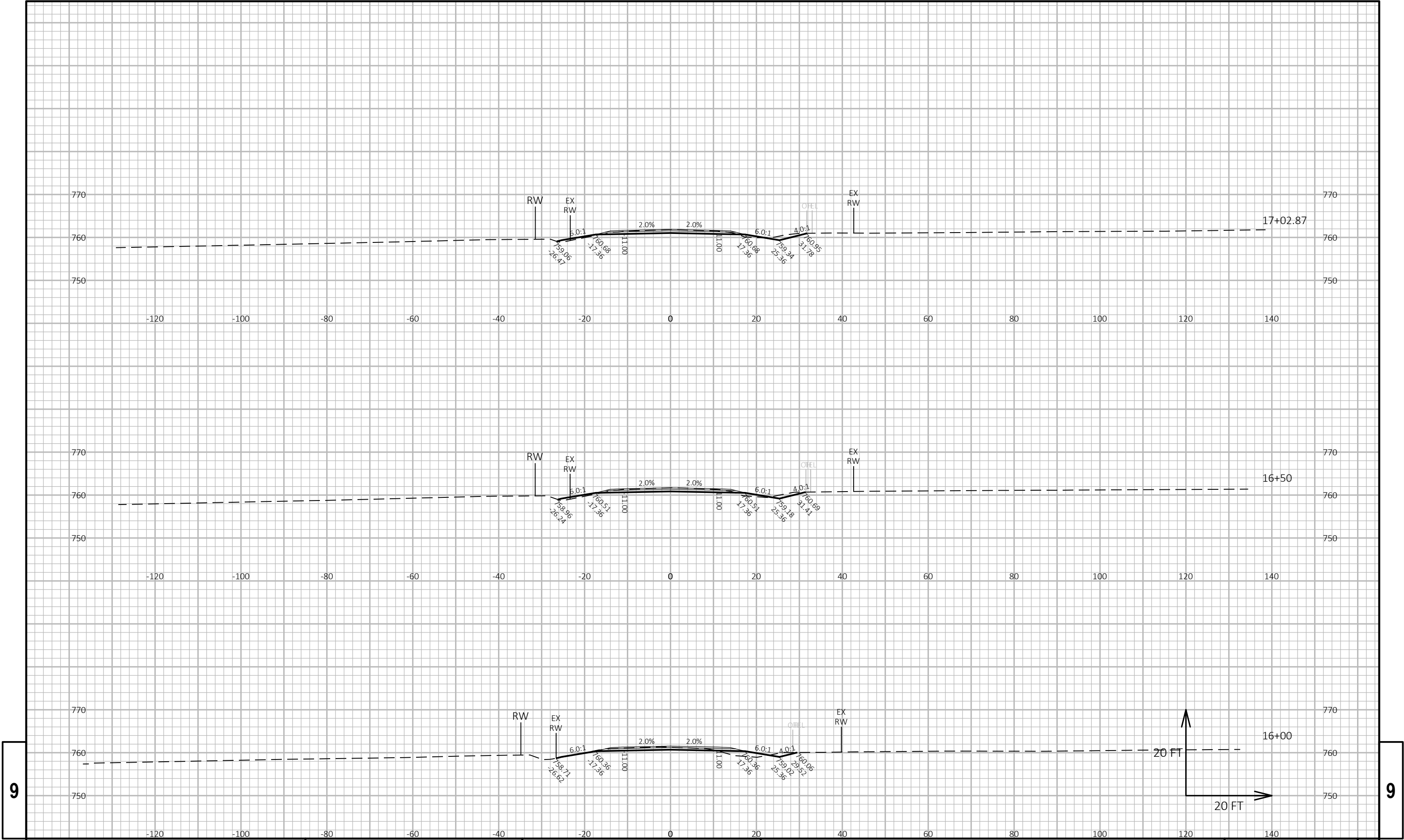
PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	CROSS SECTIONS: MAN CAL ROAD	SHEET E
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PROJECT NO: 4085-33-71	HWY: STH 32	COUNTY: BROWN	CROSS SECTIONS: MAN CAL ROAD	SHEET E
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EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a "PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

- a. With the plan open in Acrobat, select Document > Insert Pages.
- b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
- c. In the Insert dialog box, choose After for Location and Last page for Page.
- d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

- a. Go to the last sheet of the plan.
- b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match the page number in the Acrobat Status bar).

3. Re-Save the PDF

- a. Select File > Save As and save the PDF.

TO REMOVE PRELIMINARY SHEET NUMBERS