

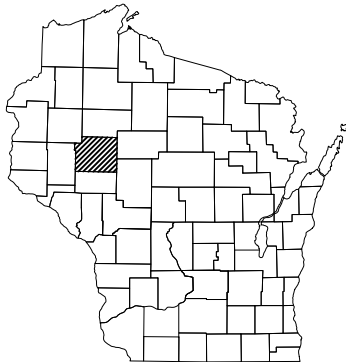
PROJECT ID: 7070-06-61

COUNTY: CHIPPEWA

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

A.A.D.T. (2022)	=	3600
A.A.D.T. (2042)	=	4200
D.H.V.	=	285
D.D.	=	60/40
T.	=	25.3%
DESIGN SPEED	=	55
ESALS	=	

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	
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

CADOTT - CORNELL

BIG DRYWOOD CREEK BRIDGE B-09-0127

STH 27

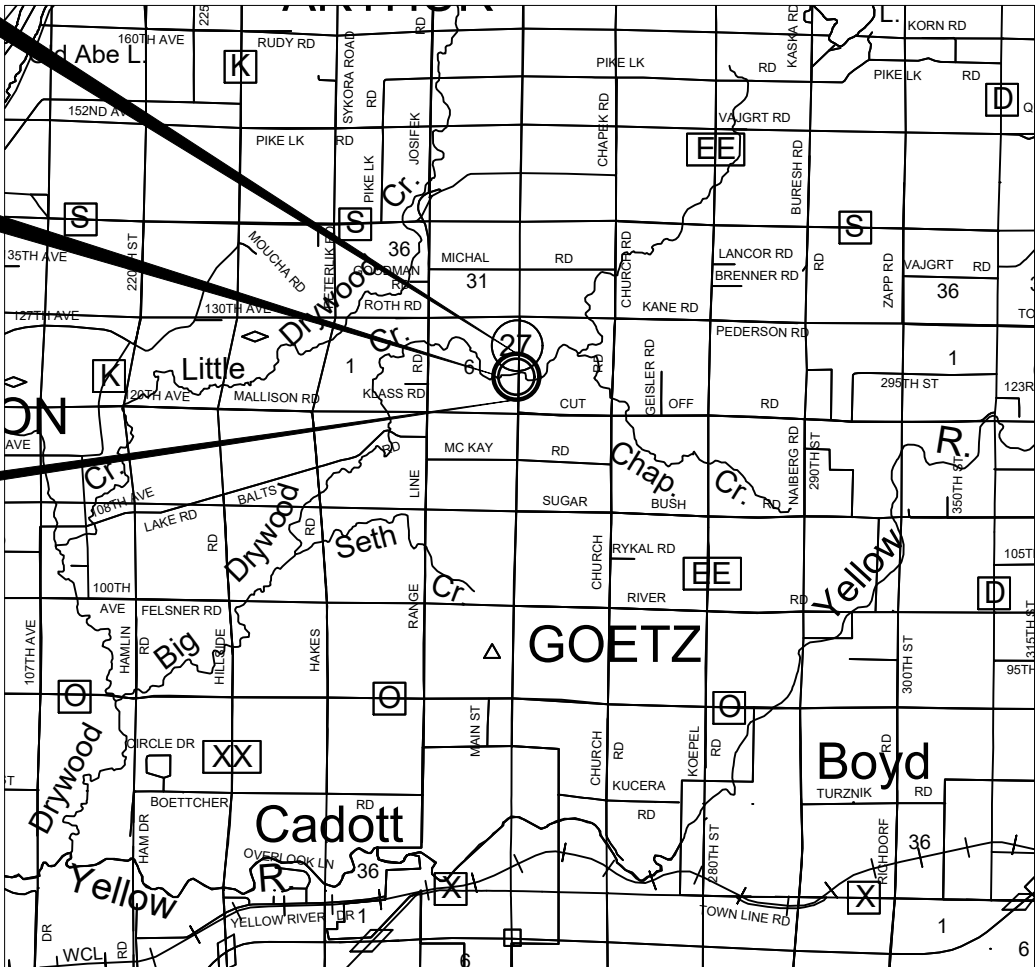
CHIPPEWA COUNTY

STATE PROJECT NUMBER
7070-06-61

END PROJECT
STA. 12+25

STRUCTURE B-09-0127

BEGIN PROJECT
STA. 9+25
Y = 160,951.39
X = 235,245.09



SCALE 0 2 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.057 MILES

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

"ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)."

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7070-06-61		

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	JEWELL ASSOCIATES ENGINEERS, INC.
Designer	JEWELL ASSOCIATES ENGINEERS, INC.
Project Manager	TYLER RONGSTAD, P.E.
Regional Examiner	NW REGION
Regional Supervisor	REGIONAL SUPERVISOR
APPROVED FOR THE DEPARTMENT	
DATE:	(Signature)

LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment	INV	Invert	SALV	Salvaged
AC	Acre	IP	Iron Pipe or Pin	SAN S	Sanitary Sewer
AGG	Aggregate	IRS	Iron Rod Set	SEC	Section
AH	Ahead	JT	Joint	SHLDR	Shoulder
<	Angle	JCT	Junction	SHR	Shrinkage
ASPH	Asphaltic	LHF	Left-Hand Forward	SW	Sidewalk
AVG	Average	L	Length of Curve	S	South
ADT	Average Daily Traffic	LIN FT or LF	Linear Foot	SQ	Square
BAD	Base Aggregate Dense	LC	Long Chord of Curve	SF or SQ FT	Square Feet
BK	Back	MH	Manhole	SY or SQ YD	Square Yard
BF	Back Face	MB	Mailbox	STD	Standard
BM	Bench Mark	ML or M/L	Match Line	SDD	Standard Detail Drawings
BR	Bridge	N	North	STH	State Trunk Highways
C or C/L	Center Line	Y	North Grid Coordinate	STA	Station
CC	Center to Center	OD	Outside Diameter	SS	Storm Sewer
CTH	County Trunk Highway	PLE	Permanent Limited Easement	SG	Subgrade
CR	Creek			SE	Superelevation
CR	Crushed	PT	Point	SL or S/L	Survey Line
CY or CU YD	Cubic Yard	PC	Point of Curvature	SV	Septic Vent
CP	Culvert Pipe	PI	Point of Intersection	T	Tangent
C & G	Curb and Gutter	PRC	Point of Reverse Curvature	TEL	Telephone
D	Degree of Curve	PT	Point of Tangency	TEMP	Temporary
DHV	Design Hour Volume	POC	Point On Curve	TI	Temporary Interest
DIA	Diameter	POT	Point on Tangent	TLE	Temporary Limited Easement
E	East	PVC	Polyvinyl Chloride	t	Ton
X	East Grid Coordinate	PCC	Portland Cement Concrete	T or TN	Town
ELEC	Electric (al)	LB	Pound	TRANS	Transition
EL or ELEV	Elevation	PSI	Pounds Per Square Inch	TL or T/L	Transit Line
ESALS	Equivalent Single Axle Loads	PE	Private Entrance	T	Trucks (percent of)
		R	Radius	TYP	Typical
EBS	Excavation Below Subgrade	RR	Railroad	UNCL	Unclassified
FF	Face to Face	R	Range	UG	Underground Cable
FE	Field Entrance	RL or R/L	Reference Line	USH	United States Highway
F	Fill	RP	Reference Point	VAR	Variable
FG	Finished Grade	RCCP	Reinforced Concrete	V	Velocity or Design Speed
FL or F/L	Flow Line		Culvert Pipe	VERT	Vertical
FT	Foot	REQ'D	Required	VC	Vertical Curve
FTG	Footing	RES	Residence or Residential	VOL	Volume
GN	Grid North	RW	Retaining Wall	WM	Water Main
HT	Height	RT	Right	WV	Water Valve
CWT	Hundredweight	RHF	Right-Hand Forward	W	West
HYD	Hydrant	R/W	Right-of-Way	WB	Westbound
INL	Inlet	R	River	YD	Yard
ID	Inside Diameter	RD	Road		
		RDWY	Roadway		

GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER.

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 40), AND MULCHED AS DIRECTED BY THE ENGINEER.

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

SILT FENCE AND TEMPORARY DITCH CHECKS SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION AND IN PLACE PRIOR TO DECK REMOVAL.

MULCH ALL MAINLINE SLOPES AS DIRECTED BY THE ENGINEER IN THE FIELD.

FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 30%.

ADJUST DITCH GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.

REMOVAL OF ASPHALTIC OR CONCRETE SURFACES WHERE AN ABUTTING ASPHALTIC OR CONCRETE SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT.

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 115 LB/SY/IN.

CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION:

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EAU CLAIRE, WI 54701
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EMAIL: tyler.rongstad@dot.wi.gov

DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS, INC.
560 SUNRISE DRIVE
SPRING GREEN, WI 53588
ATTN: ELLERY SCHAFFER, P.E.
PH: (608) 459-6027
CELL: (608) 341-8159
EMAIL: ellery.schaffer@jewellassoc.com

DNR LIAISON:

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
1300 W. CLAIREMONT AVE
EAU CLAIRE, WI 54701
ATTN: LEAH NICOL
PH: (715) 934-9014
EMAIL: leah.nicol@wisconsin.gov

UTILITIES

COMMUNICATION

CENTURYLINK
ATTN: MONTY PARKER
20 S. WILSON AVE.
RICE LAKE, WI 54868
PH: (715) 234-5528
EMAIL: monty.parker@centurylink.com

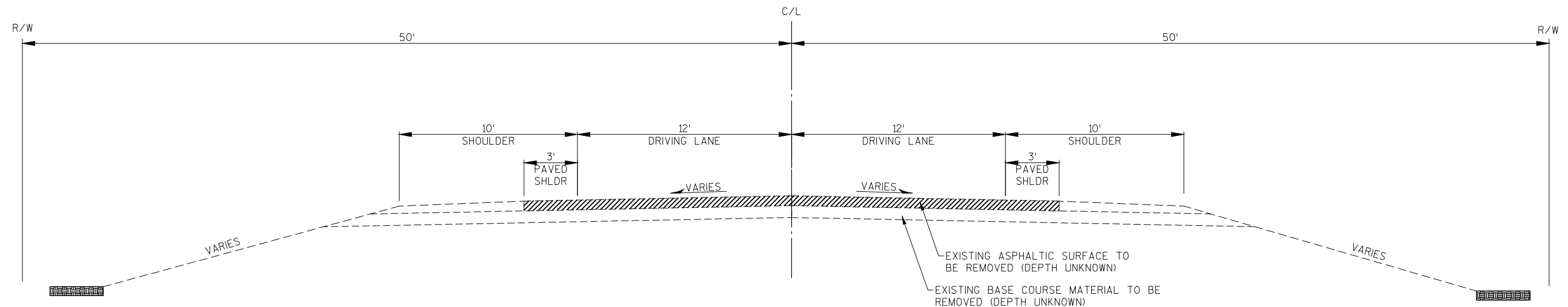
ELECTRIC

CHIPPEWA VALLEY ELECTRIC COOP
ATTN: ROD PATTEN
317 S. 8TH ST.
P.O. BOX 575
CORNELL, WI 54732
PH: (715) 239-6800
EMAIL: rpatten@cve.coop

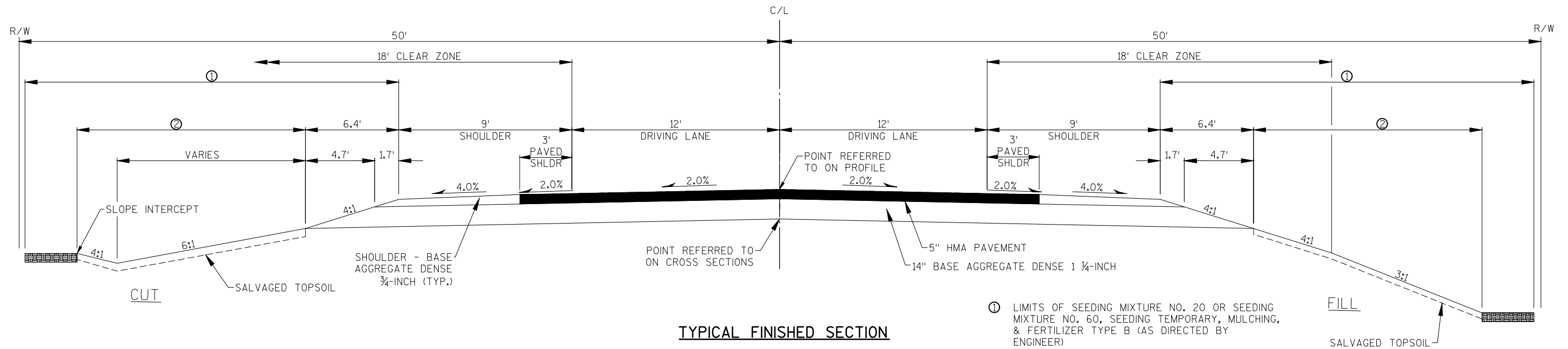


	HYDROLOGIC SOIL GROUP											
	A				B				C			
	SLOPE RANGE (PERCENT)				SLOPE RANGE (PERCENT)				SLOPE RANGE (PERCENT)			
LAND USE	0-2	2-6	6 & OVER		0-2	2-6	6 & OVER		0-2	2-6	6 & OVER	
ROW CROPS	.08	.16	.22		.12	.20	.27		.15	.24	.33	
	.22	.30	.38		.26	.34	.44		.30	.37	.50	
MEDIAN STRIP-TURF	.19	.20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

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

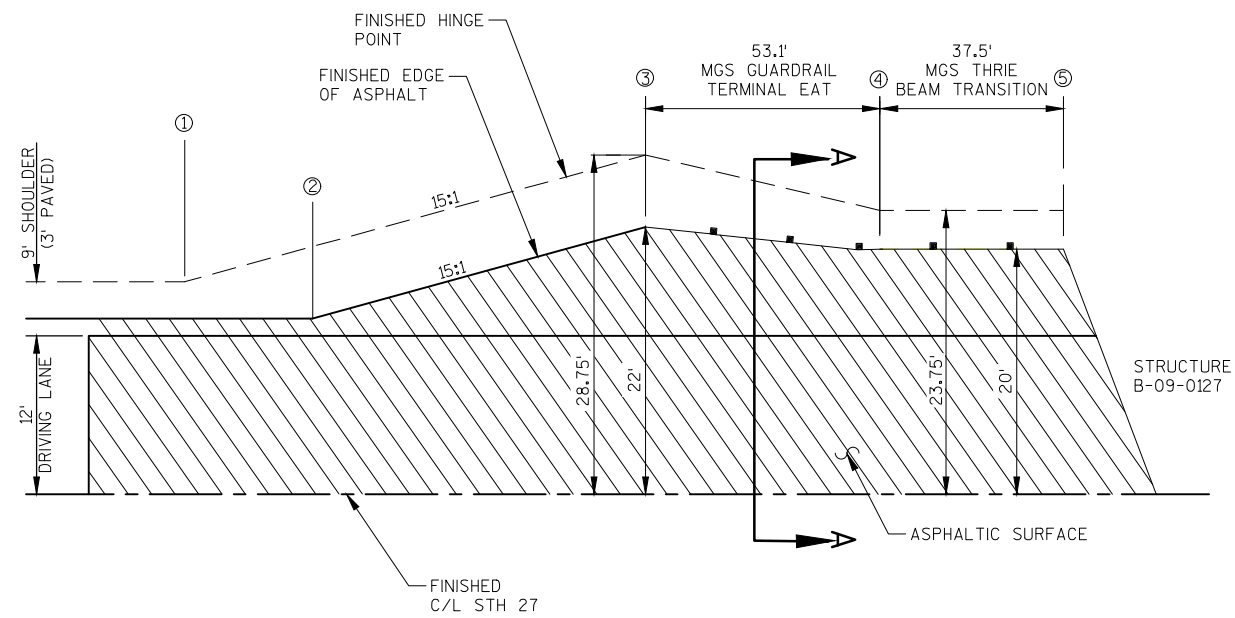


TYPICAL EXISTING SECTION



TYPICAL FINISHED SECTION

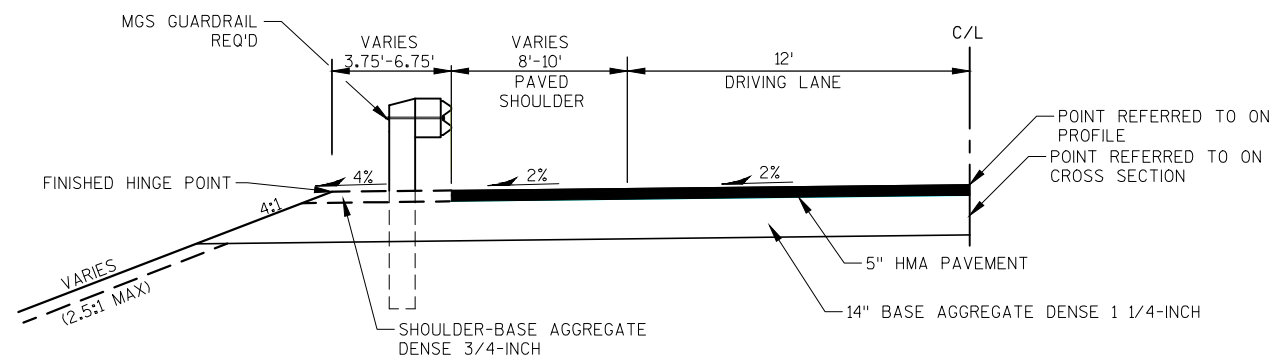
- ① LIMITS OF SEEDING MIXTURE NO. 20 OR SEEDING MIXTURE NO. 60, SEEDING TEMPORARY, MULCHING, & FERTILIZER TYPE B (AS DIRECTED BY ENGINEER)
- ② LIMITS OF SALVAGED TOPSOIL (AS DIRECTED BY ENGINEER)



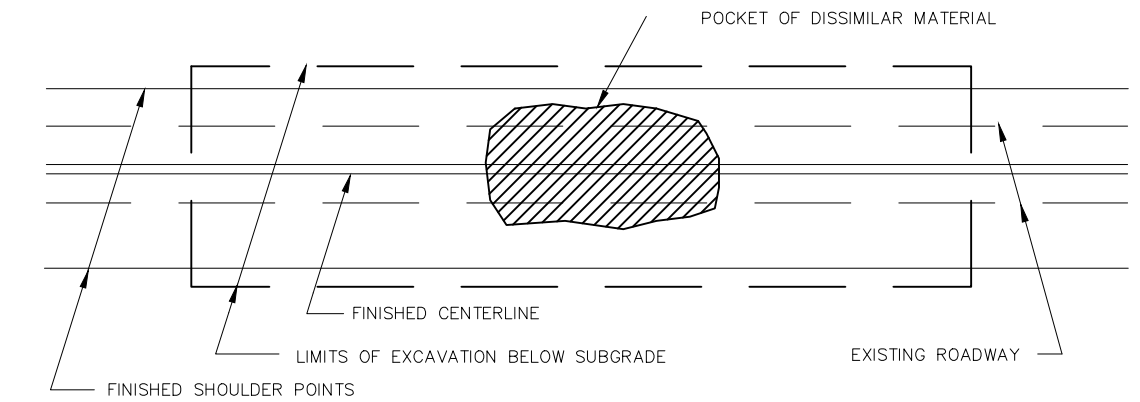
BEAMGUARD LAYOUT TABLE

QUADRANT	LOCATION	STATION				
		①	②	③	④	⑤
SOUTHWEST	MAINLINE, LT.	283+49	284+13	284+54	285+06	285+44
SOUTHEAST	MAINLINE, RT.	284+32	284+40	284+72	285+26	285+63
NORTHEAST	MAINLINE, RT.	288+01	287+93	287+34	286+81	286+43
NORTHWEST	MAINLINE, LT.	288+04	287+44	287+14	286+61	286+24

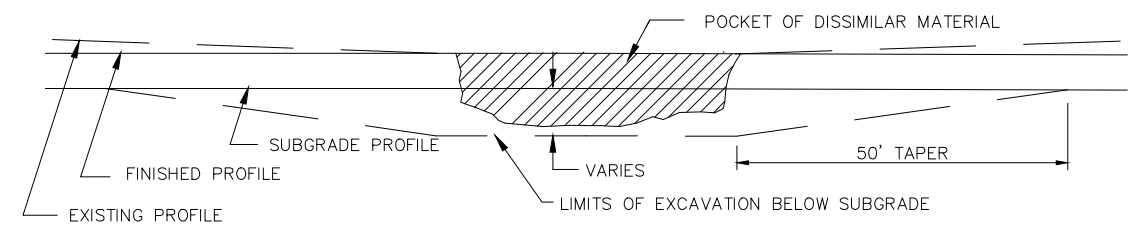
BEAMGUARD LAYOUT DETAIL



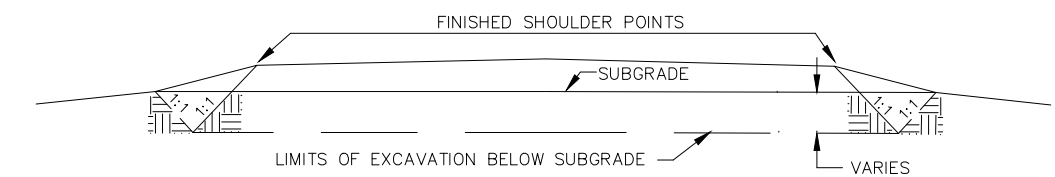
SECTION A-A



PLAN VIEW



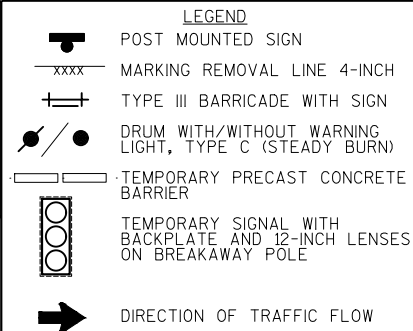
PROFILE VIEW



CROSS SECTION VIEW

1. EXACT LOCATION OF E.B.S. (EXCAVATION BELOW SUBGRADE) SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
3. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED. LATERAL LIMITS OF EXCAVATION SHALL BE THE SUBGRADE SHOULDER POINTS.

EXCAVATION BELOW SUBGRADE (E.B.S.)

**GENERAL NOTES:**

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, LIGHTS, TEMPORARY MARKINGS, FLAGGERS, AND SUCH OTHER SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

ALL SIGN LAYOUT SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS.

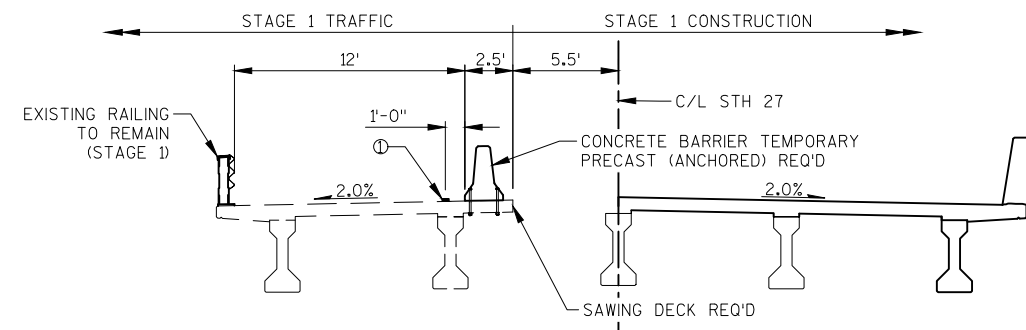
ROAD MACHINERY, FLAGGERS AHEAD, ETC. SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED AT NIGHTS, ON WEEKENDS OR WHEN THE ACTIVITY DOES NOT EXIST.

ADDITIONAL DRUMS OR TYPE III BARRICADES MAY BE REQUIRED ADJACENT TO DROP-OFFS, OPEN TRENCHES, OR PROTRUSIONS. COST TO BE INCLUDED WITH OPERATION WHICH CREATES THE HAZARD.

DRUMS PLACED ADJACENT TO WORK AREAS SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

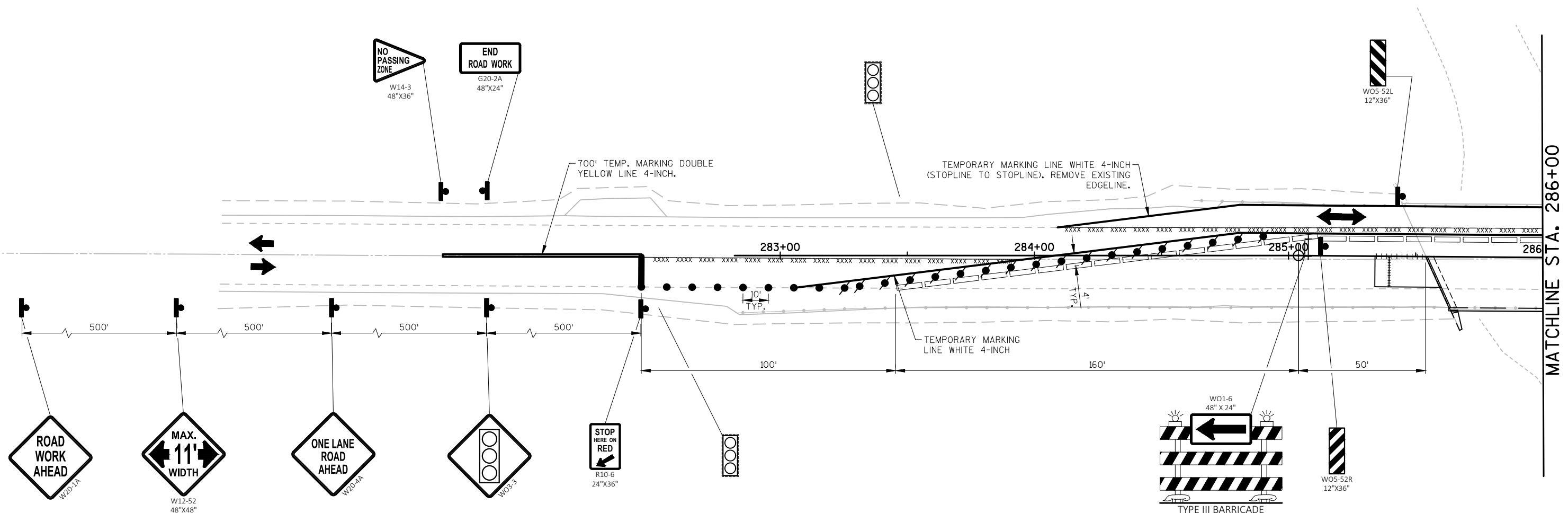
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

**TYPICAL STAGING SECTION AT B-09-127**

STAGE 1 (LOOKING NORTH)

- ① TEMPORARY PAVEMENT MARKING
4-INCH REMOVABLE TAPE WHITE
EDGE LINE



PROJECT NO: 7070-06-61

HWY: STH 27

COUNTY: CHIPPEWA

TRAFFIC CONTROL - STAGE 1

SHEET

E

FILE NAME : S:\PROJECTS\W11588 STH 27 BRIDGE DECK REPLACEMENT, CHIPPEWA
LAYOUT : C:\SHEETS\PLAN\DETAILS\W11588_STAGING DETAILS.DWG

PLOT DATE : 5/3/2019
PLOT TIME : 1:38:24 PM

PLOT BY : HANOLD, ROBERT

PLOT SCALE : 1" = 1'

LEGEND



POST MOUNTED SIGN



MARKING REMOVAL LINE 4-INCH



TYPE III BARRICADE WITH SIGN



DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)



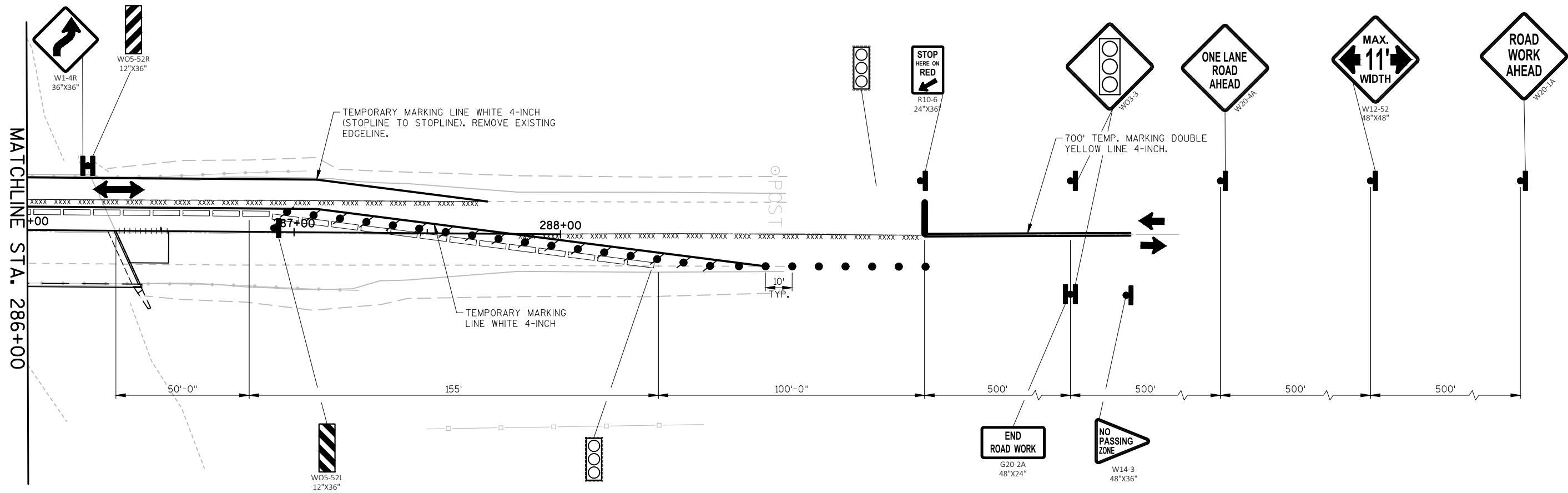
TEMPORARY PRECAST CONCRETE BARRIER

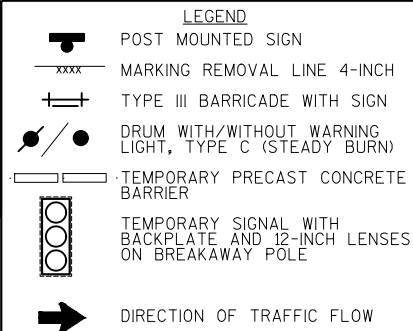


TEMPORARY SIGNAL WITH BACKPLATE AND 12-INCH LENSES ON BREAKAWAY POLE



DIRECTION OF TRAFFIC FLOW



**GENERAL NOTES:**

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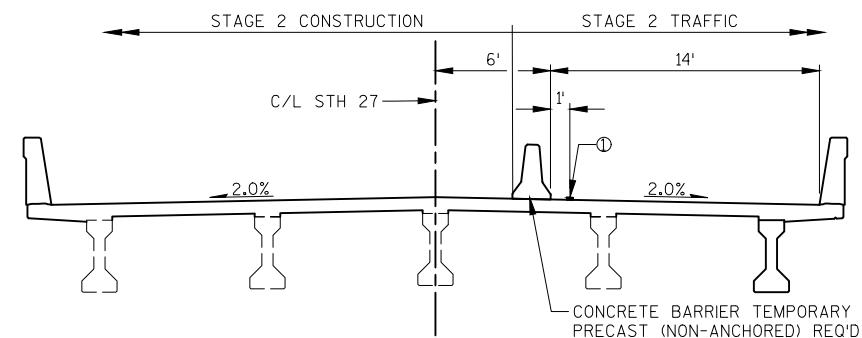
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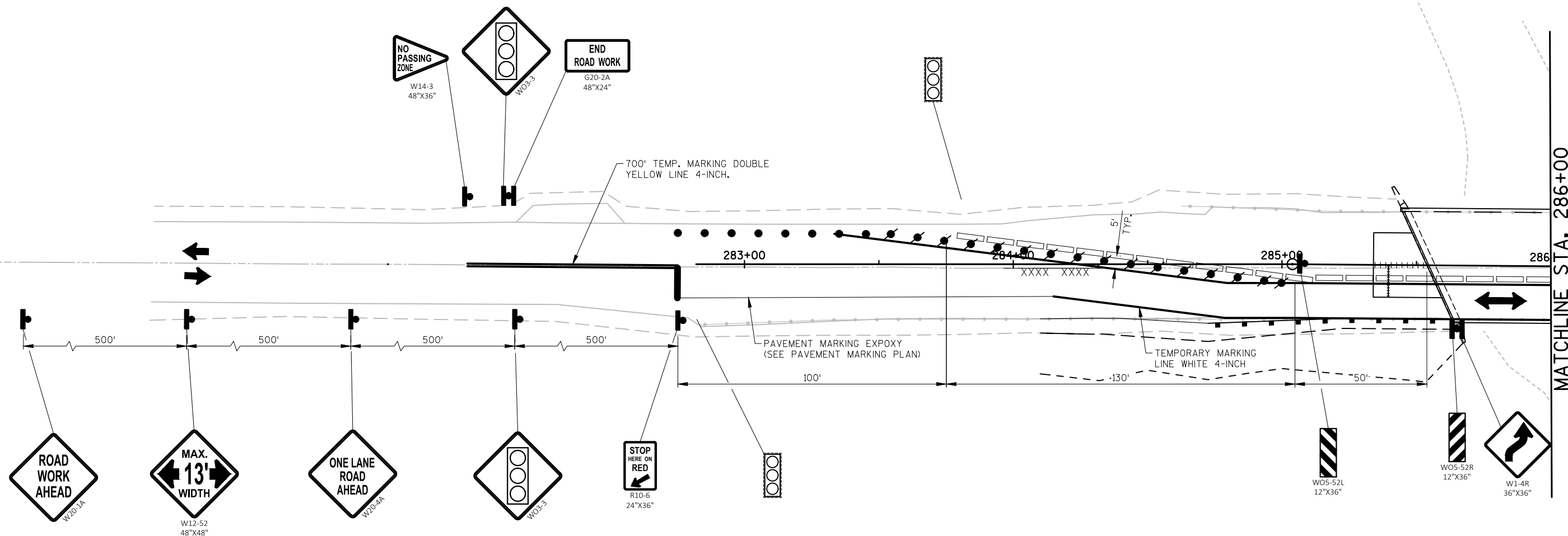
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



TYPICAL STAGING SECTION AT B-09-127

STAGE 2 (LOOKING NORTH)

- ① TEMPORARY PAVEMENT MARKING
4-INCH REMOVABLE TAPE WHITE
EDGELINE



PROJECT NO: 7070-06-61

HWY: STH 27

COUNTY: CHIPPEWA

TRAFFIC CONTROL - STAGE 2

SHEET

E

LEGEND



POST MOUNTED SIGN



MARKING REMOVAL LINE 4-INCH



TYPE III BARRICADE WITH SIGN



DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)



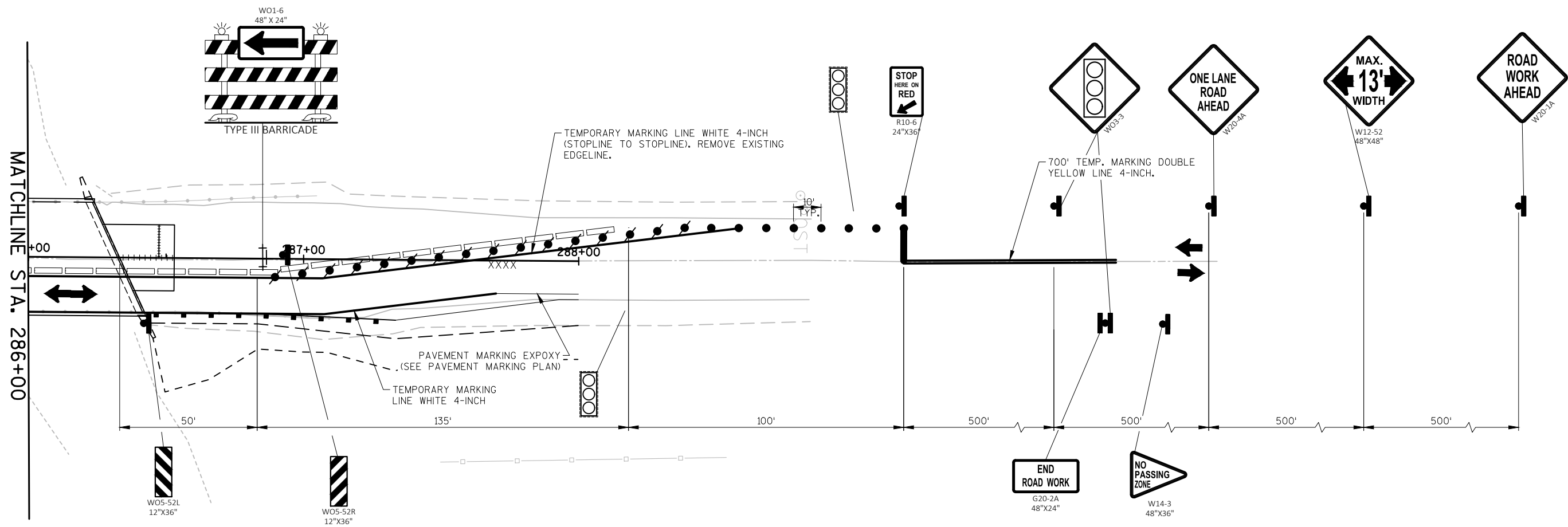
TEMPORARY PRECAST CONCRETE BARRIER

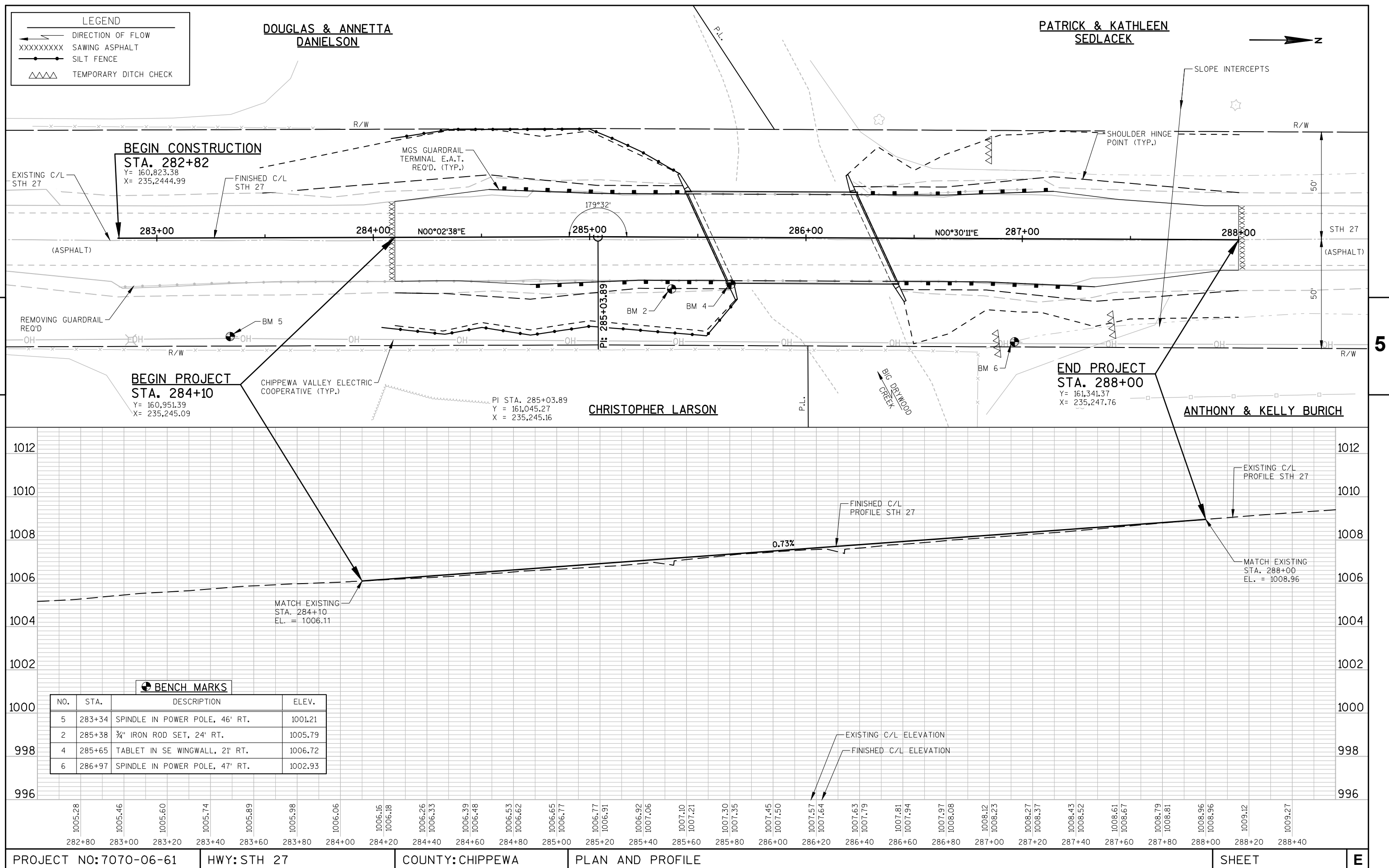


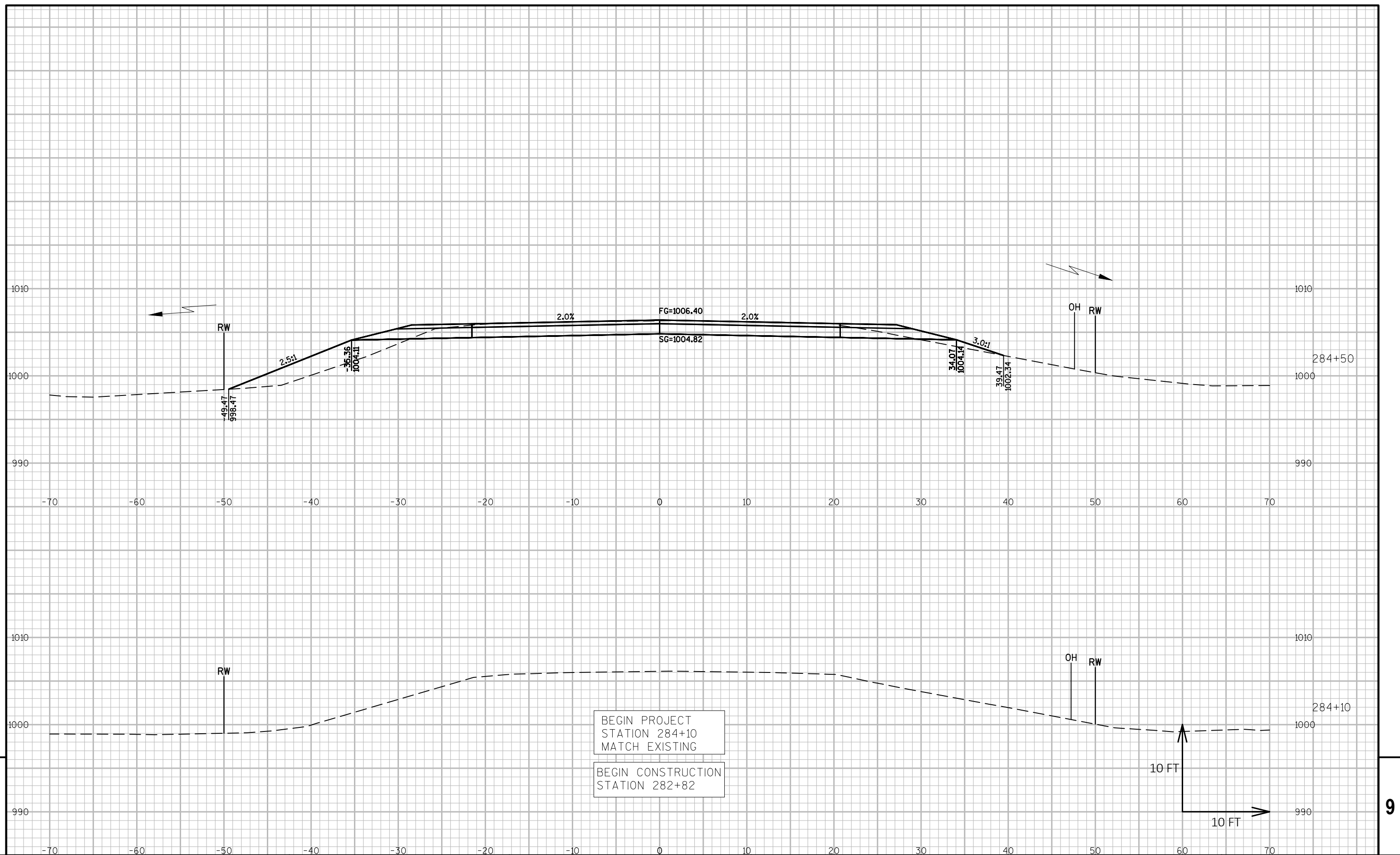
TEMPORARY SIGNAL WITH BACKPLATE AND 12-INCH LENSES ON BREAKAWAY POLE

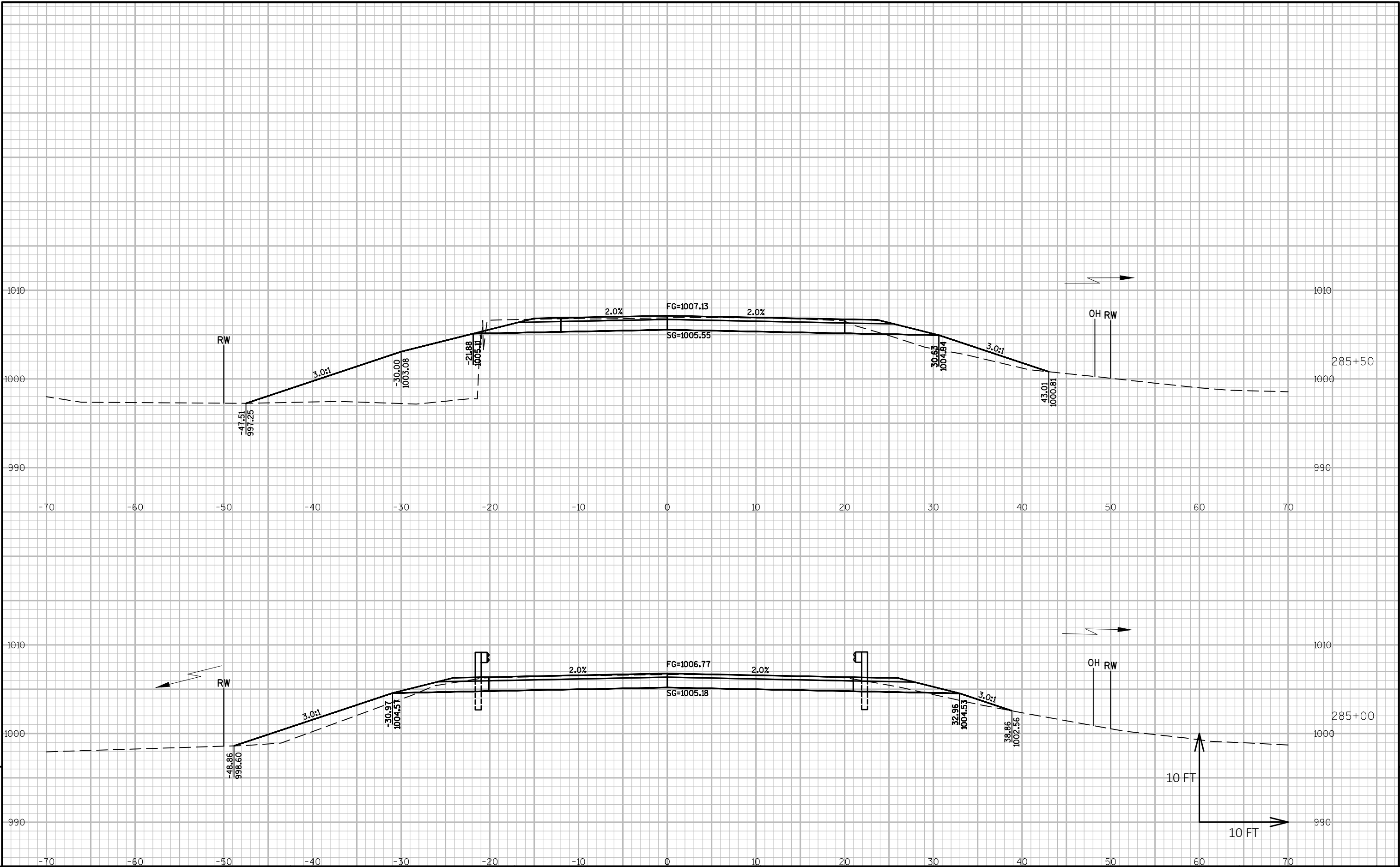


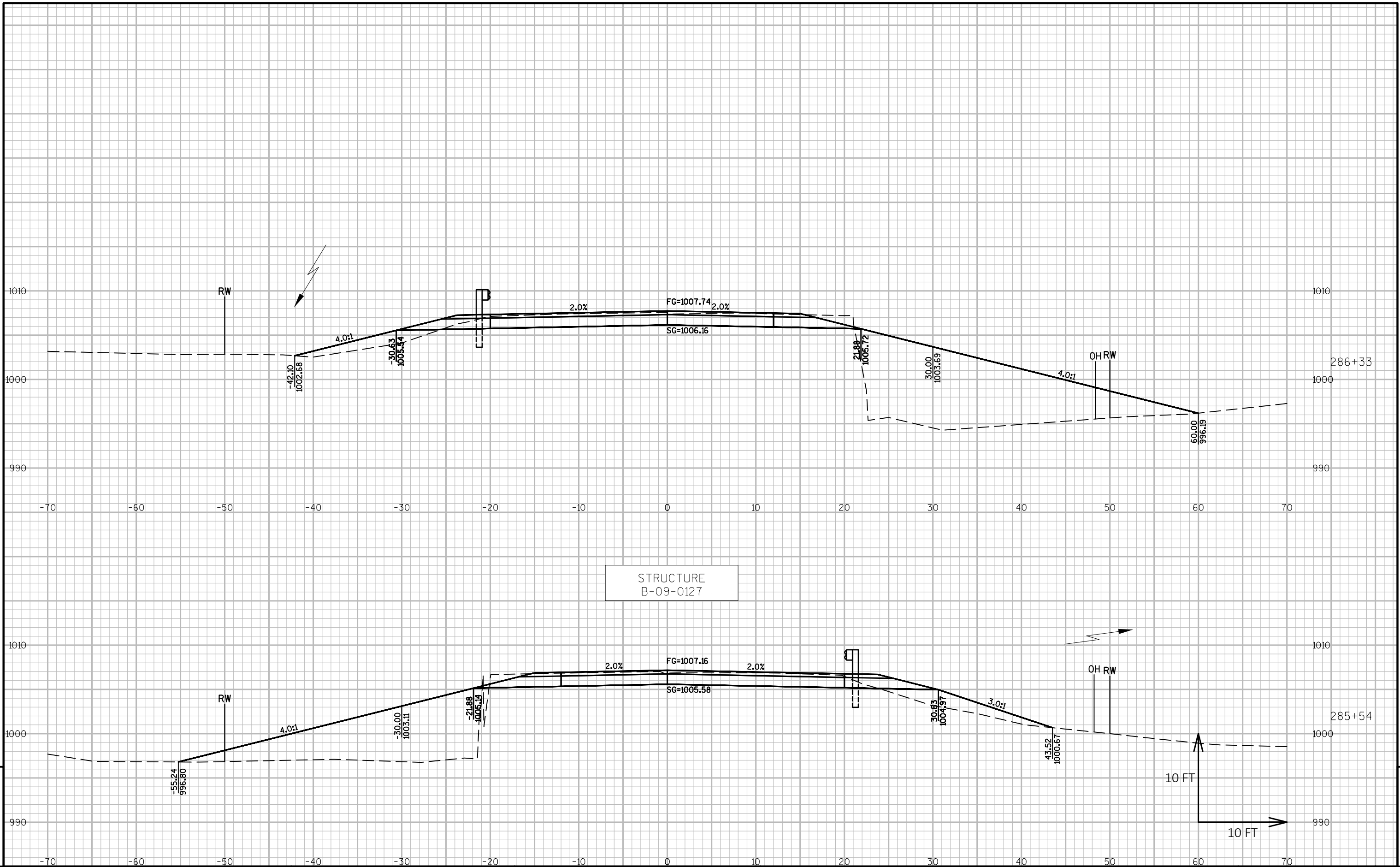
DIRECTION OF TRAFFIC FLOW

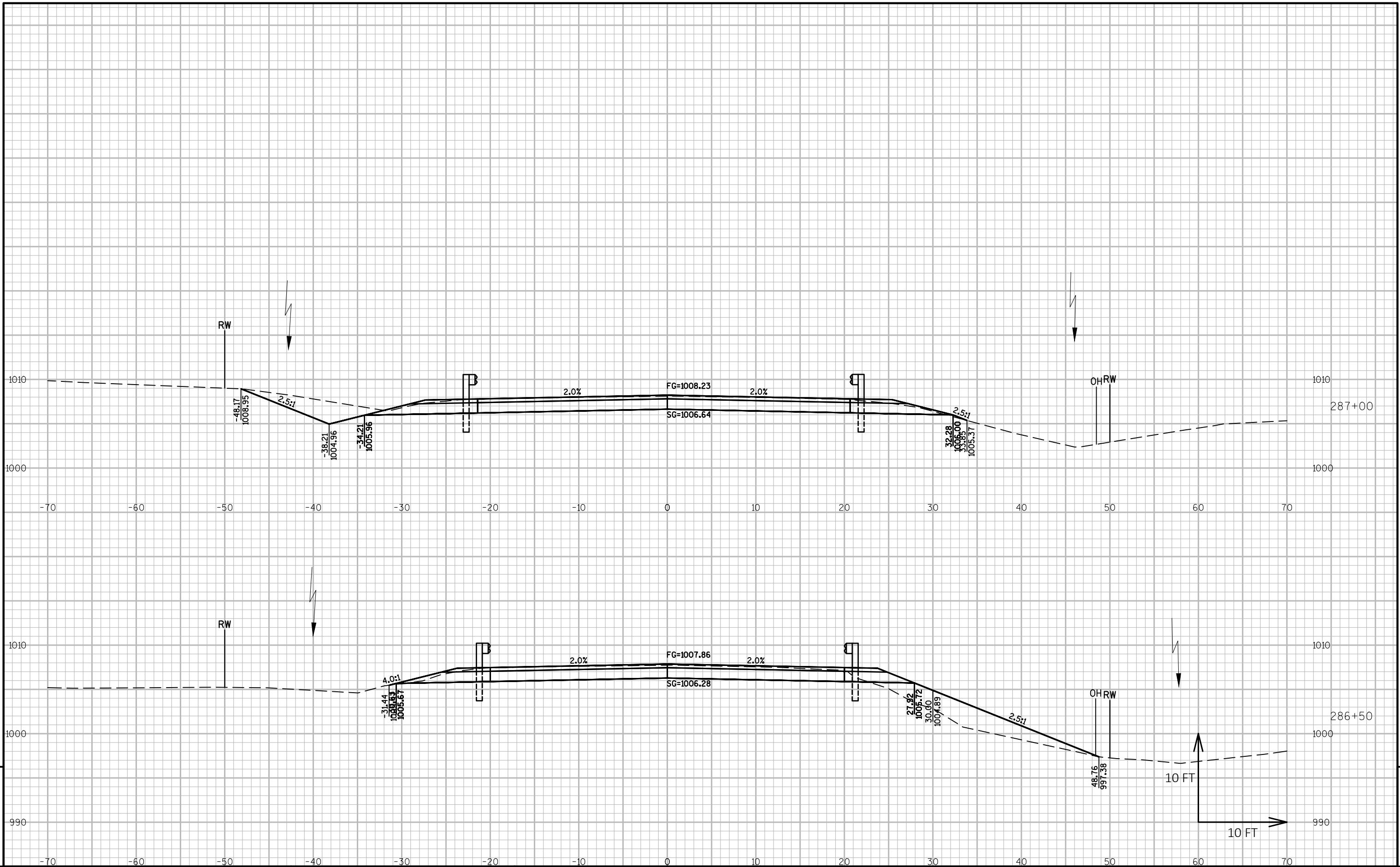


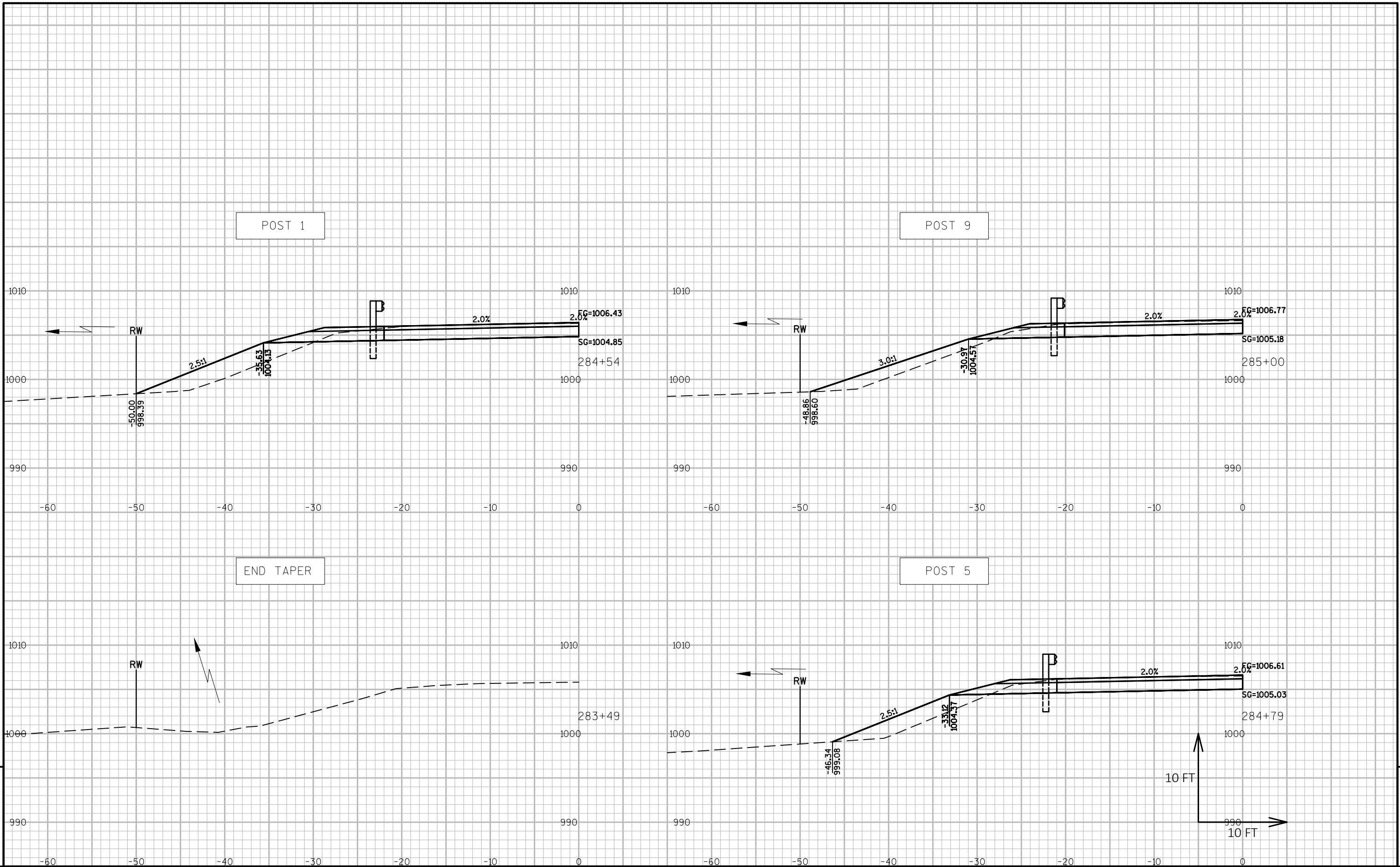


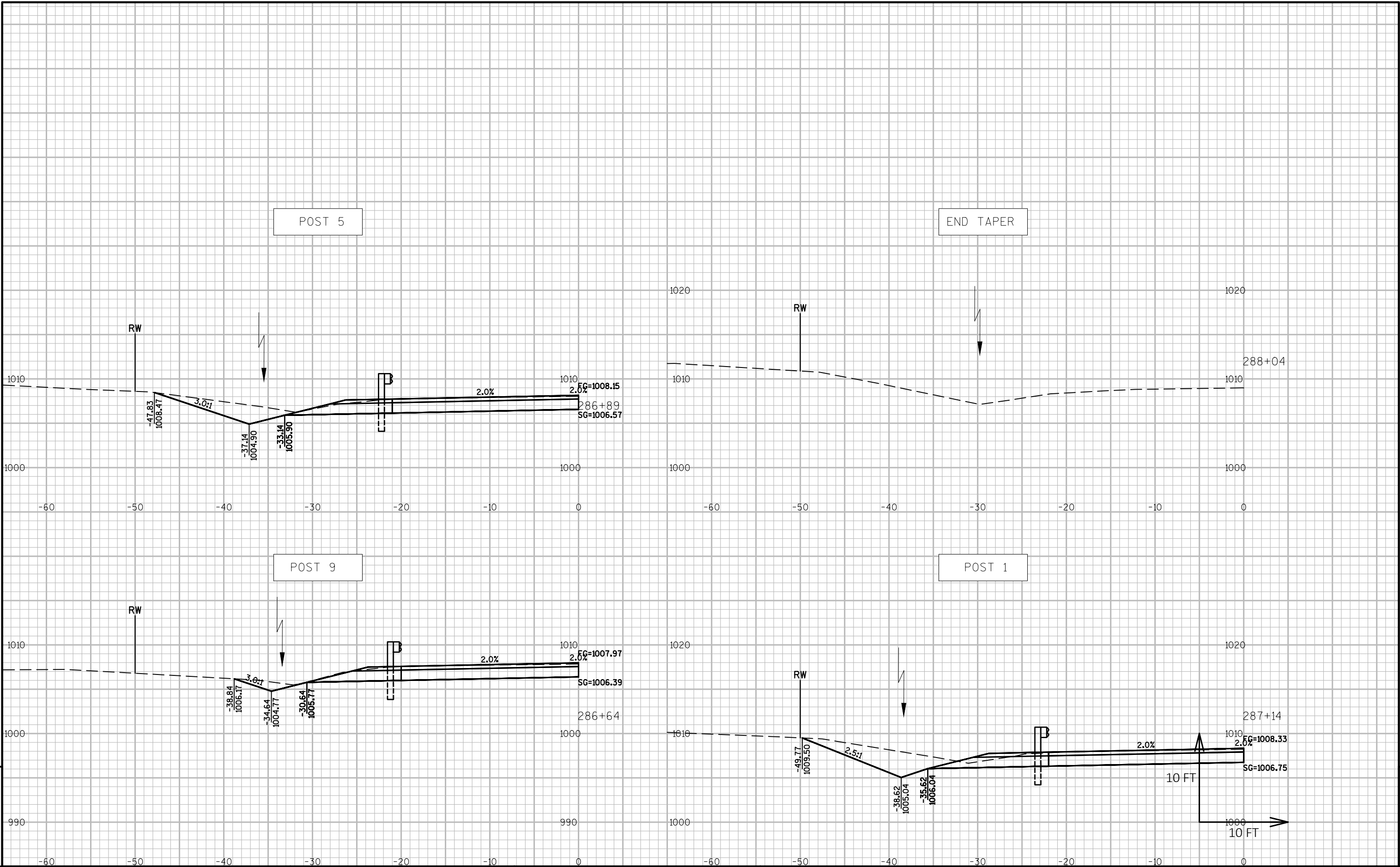


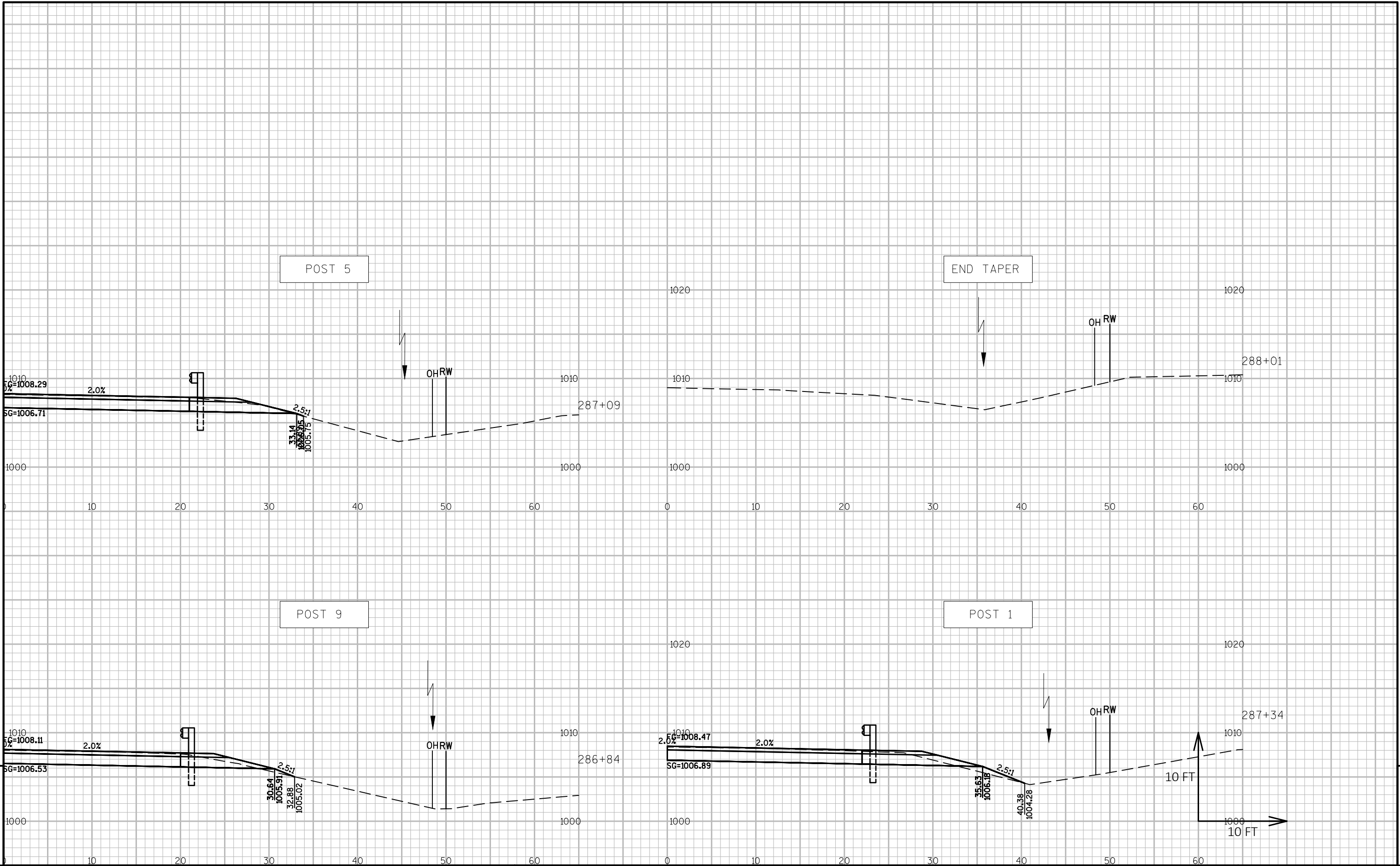












PROJECT NO: 7070-06-61	HWY: STH 27	COUNTY: CHIPPEWA	CROSS SECTIONS: MAINLINE (ENERGY ABSORBING TERMINAL)	SHEET E
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