



Middletown Junction

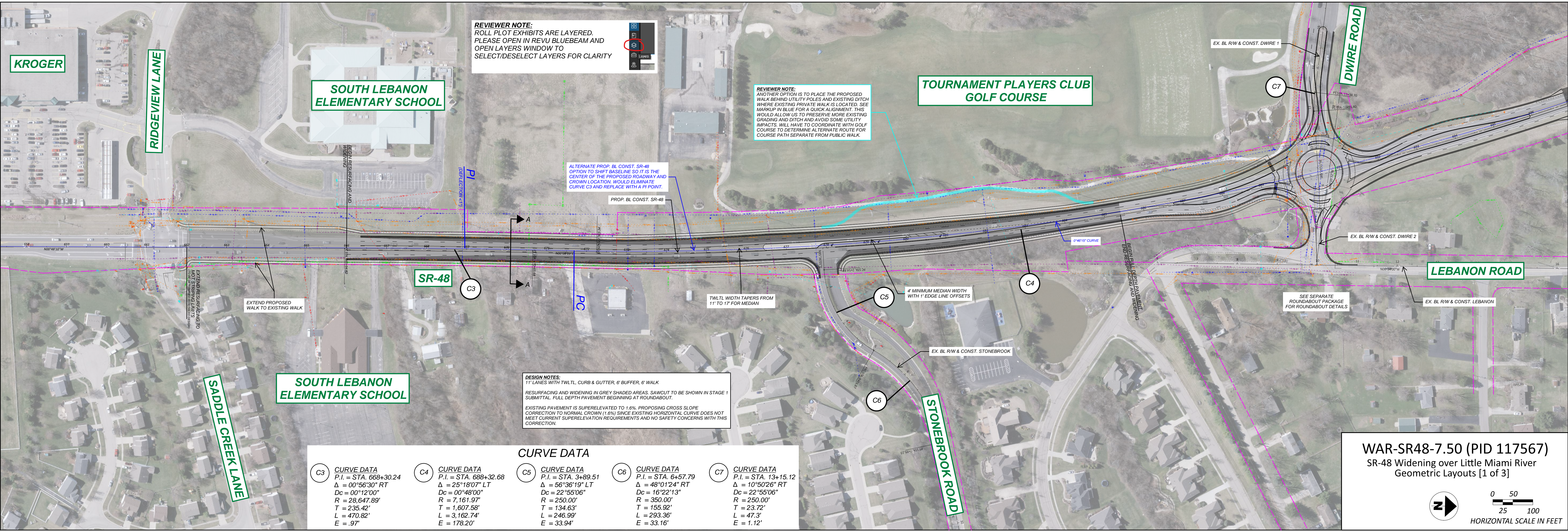
SR-48 Roadway Geometrics Exhibits

Little Miami River

Dry Run

South Lebanon

This is an aerial photograph of a suburban area in South Lebanon, Tennessee. A prominent road, SR-48, runs horizontally across the middle of the image. The surrounding landscape includes residential neighborhoods with winding streets, several golf courses with green fairways and brown sand traps, and a river labeled 'Little Miami River' that flows from the top right towards the bottom right. A road labeled 'Dry Run' is visible in the lower right quadrant. A red location pin is placed near the bottom right, labeled 'South Lebanon'. At the top center, the text 'Middletown Junction' is visible. A large white rectangular box with a black border is superimposed over the upper portion of the image, containing the title 'SR-48 Roadway Geometrics Exhibits' in bold black text.



REVIEWER NOTE:
 ROLL PLOT EXHIBITS ARE LAYERED.
 PLEASE OPEN IN REVU BLUEBEAM AND
 OPEN LAYERS WINDOW TO
 SELECT/DESELECT LAYERS FOR CLARITY

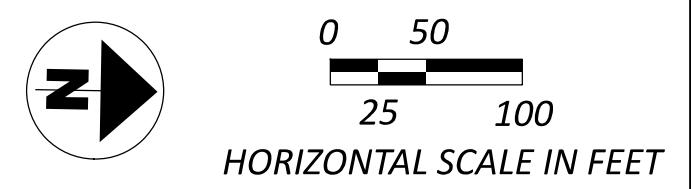
REVIEWER NOTE:
 ANOTHER OPTION IS TO PLACE THE PROPOSED
 WALK BEHIND UTILITY POLES AND EXISTING DITCH
 WHERE EXISTING PRIVATE WALK IS LOCATED. SEE
 MARKUP IN BLUE FOR A QUICK ALIGNMENT. THIS
 WOULD ALLOW US TO PRESERVE MORE EXISTING
 GRADING AND DITCH AND AVOID SOME UTILITY
 IMPACTS. WILL HAVE TO COORDINATE WITH GOLF
 COURSE TO DETERMINE ALTERNATE ROUTE FOR
 COURSE PATH SEPARATE FROM PUBLIC WALK.

ALTERNATE PROP. BL CONST. SR-48
 OPTION TO SHIFT BASELINE SO IT IS THE
 CENTER OF THE PROPOSED ROADWAY AND
 CROWN LOCATION. WOULD ELIMINATE
 CURVE C3 AND REPLACE WITH A PI POINT.

DESIGN NOTES:
 11' LANES WITH TWTLL, CURB & GUTTER, 6' BUFFER, 6' WALK
 RESURFACING AND WIDENING IN GREY SHADED AREAS. SAWCUT TO BE SHOWN IN STAGE 1
 SUBMITTAL. FULL DEPTH PAVEMENT BEGINNING AT ROUNDABOUT.
 EXISTING PAVEMENT IS SUPERELEVATED TO 1.6%. PROPOSING CROSS SLOPE
 CORRECTION TO NORMAL CROWN (1.6%) SINCE EXISTING HORIZONTAL CURVE DOES NOT
 MEET CURRENT SUPERELEVATION REQUIREMENTS AND NO SAFETY CONCERNS WITH THIS
 CORRECTION.

CURVE DATA	
C3	CURVE DATA P.I. = STA. 668+30.24 $\Delta = 00^{\circ}56'30''$ RT Dc = 00°12'00" R = 28,647.89' T = 235.42' L = 470.82' E = .97'
C4	CURVE DATA P.I. = STA. 688+32.68 $\Delta = 25^{\circ}18'07''$ LT Dc = 00°48'00" R = 7,161.97' T = 1,607.58' L = 3,162.74' E = 178.20'
C5	CURVE DATA P.I. = STA. 3+89.51 $\Delta = 56^{\circ}36'19''$ LT Dc = 22°55'06" R = 250.00' T = 134.63' L = 246.99' E = 33.94'
C6	CURVE DATA P.I. = STA. 6+57.79 $\Delta = 48^{\circ}01'24''$ RT Dc = 16°22'13" R = 350.00' T = 155.92' L = 293.36' E = 33.16'
C7	CURVE DATA P.I. = STA. 13+15.12 $\Delta = 10^{\circ}50'26''$ RT Dc = 22°55'06" R = 250.00' T = 23.72' L = 47.3' E = 1.12'

WAR-SR48-7.50 (PID 117567)
 SR-48 Widening over Little Miami River
 Geometric Layouts [1 of 3]



REVIEWER NOTE:
 CONFIRM DISTANCE FROM END OF SPLITTER ISLAND TO BARRIER AND IF PAVED GAP IS ACCEPTABLE. SIGN FOR EMERGENCY VEHICLES ONLY? DIFFERENT TRANSITION METHOD?

SR-315 in Columbus Example:
https://www.google.com/maps/@40.1163021,-83.034668,3a,75y,169.85h,78.08t/data=!3m1!1e1!3m5!1s3zdfgyhvPIMkOXrECuuwI2e0!6shttps:%2F%2Fstreetviewpixels-pa.googleapis.com%2Fv1%2FthumbnaI%3Fcb_client%3Dmaps_sv_tactile%26w%3D300%26h%3D600%26pitch%3D11.920716420853788%26panoid%3D3zdfgyhvPIMkOXrECuuwI2e0yaw%3D169.846363699348737116384!8i192?entry=ttu&g_ep=EgoyMDI2MDoxMy4wLkxMDS0ASAFAw%3D%3D

ALTERNATE PROP. BL CONST. SR-48
 SEE PREVIOUS SHEET FOR MORE DETAILS

PROP. CURB & GUARDRAIL

PROP. BL CONST. SR-48 SB
 PROP. BL CONST. SR-48

SEE SEPARATE PACKAGE FOR WALL DETAILS

PROP. LITTLE MIAMI RIVER BRIDGE
 SEE SEPARATE PACKAGE FOR BRIDGE DETAILS

PROP. ROADSIDE SAFETY DEVICE TO BE DETERMINED AT STAGE 1

DUKE ENERGY POWER SUBSTATION

VARIABLE OFFSET MEDIAN BARRIER TYPE C1. HORIZONTAL PLACEMENT BASED ON KEEPING <2' VERTICAL CLEARANCE BETWEEN NORTHBOUND AND SOUTHBOUND CORRIDORS. RED LINWORK IS ALTERNATE BARRIER ALIGNMENT TO TIE INTO THE BRIDGE BARRIER TO AVOID A SAFETY DEVICE BUT WOULD REQUIRE <2' VERTICAL CLEARANCE BETWEEN NORTHBOUND AND SOUTHBOUND.

SEE SEPARATE PACKAGE FOR WALL DETAILS

TPC RIVER'S BEND GOLF COURSE

DUKE ENERGY ELECTRIC TRANSMISSION LINES

WARREN COUNTY WATER WELL FIELD

PROP. IMPACT ATTENUATOR

PROP. CURB & GUARDRAIL

PROP. BARRIER WITH PAVED GUTTER

DESIGN NOTES:
 12' LANES, 4' INSIDE SHOULDER, 10' OUTSIDE SHOULDER, MEDIAN BARRIER TYPE B1 OR C1
 FULL DEPTH PAVEMENT UNTIL LITTLE MIAMI RIVER, SAWCUT AND RESURFACING SR-48 NORTHBOUND AFTER LITTLE MIAMI RIVER.
 SEE CROSS SECTIONS FOR GRADING OPTIONS TO BE DETERMINED IN DETAILED DESIGN

CEDARS AT RIVER'S BEND

LEBANON ROAD

CURVE & SPIRAL DATA

C4

CURVE DATA
 P.I. = STA. 688+32.68
 $\Delta = 25^{\circ}18'07''$ LT
 Dc = 00'48'00"
 R = 7,161.97'
 T = 1,607.58'
 L = 3,162.74'
 E = 178.20'

C8

CURVE DATA
 P.I. = STA. 742+47.06
 $\Delta = 45^{\circ}09'57''$ RT
 Dc = 02'45'00"
 R = 2,083.48'
 T = 866.54'
 L = 1,642.4'
 E = 173.02'

C9

CURVE DATA
 P.I. = STA. 107+32.76
 $\Delta = 02^{\circ}42'02''$ LT
 Dc = 00'39'00"
 R = 8,814.74'
 T = 207.76'
 L = 415.45'
 E = 2.45'

C10

CURVE DATA
 P.I. = STA. 113+48.22
 $\Delta = 02^{\circ}42'02''$ RT
 Dc = 00'39'00"
 R = 8,814.74'
 T = 207.76'
 L = 415.45'
 E = 2.45'

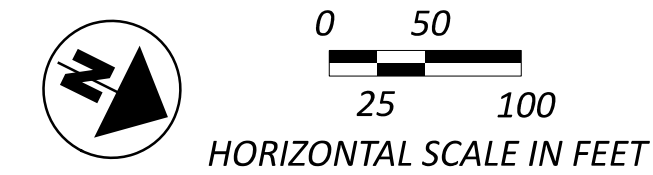
C11

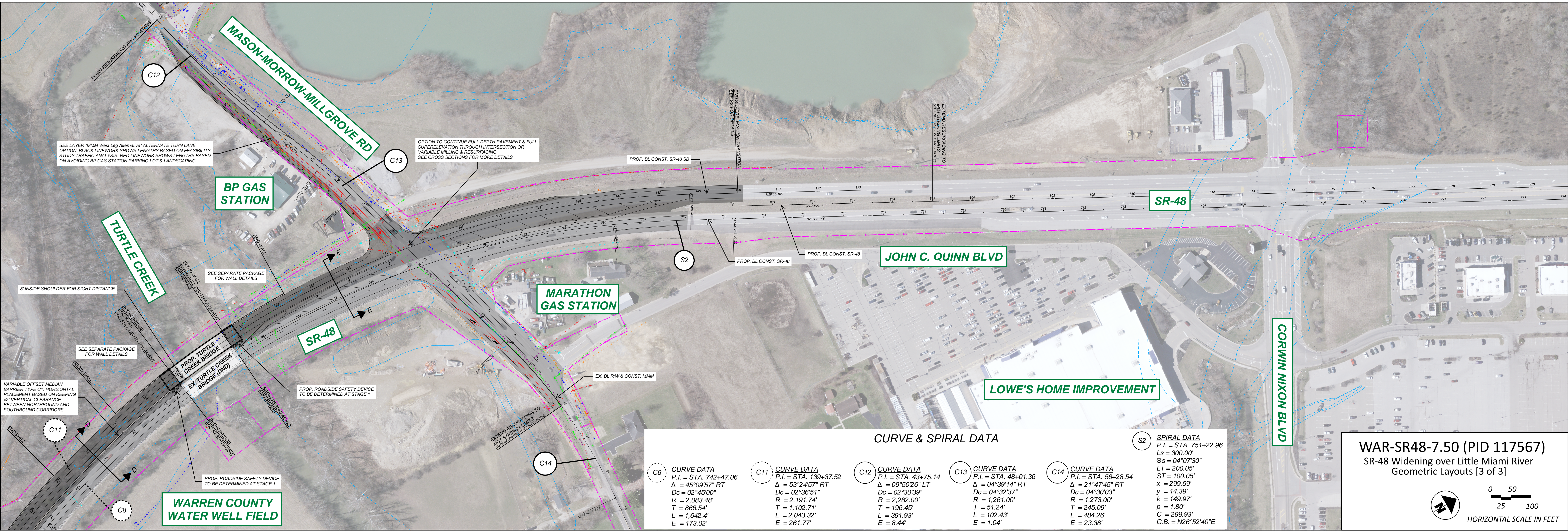
CURVE DATA
 P.I. = STA. 139+37.52
 $\Delta = 53^{\circ}24'57''$ RT
 Dc = 02'36'51"
 R = 2,191.74'
 T = 1,102.71'
 L = 2,043.32'
 E = 261.77'

S1

SPIRAL DATA
 P.I. = STA. 732+80.57
 Ls = 300.00'
 $\Theta_s = 04^{\circ}07'30''$
 LT = 200.05'
 ST = 100.05'
 x = 299.84'
 y = 7.20'
 k = 149.97'
 p = 1.80'
 C = 299.93'
 C.B. = N23°47'18"W

WAR-SR48-7.50 (PID 117567)
 SR-48 Widening over Little Miami River
 Geometric Layouts [2 of 3]





SEE LAYER "MMM West Leg Alternative" ALTERNATE TURN LANE OPTION. BLACK LINEWORK SHOWS LENGTHS BASED ON FEASIBILITY STUDY TRAFFIC ANALYSIS. RED LINEWORK SHOWS LENGTHS BASED ON AVOIDING BP GAS STATION PARKING LOT & LANDSCAPING.

OPTION TO CONTINUE FULL DEPTH PAVEMENT & FULL SUPERELEVATION THROUGH INTERSECTION OR VARIABLE MILLING & RESURFACING SEE CROSS SECTIONS FOR MORE DETAILS

BP GAS STATION

SR-48

JOHN C. QUINN BLVD

MARATHON GAS STATION

LOWE'S HOME IMPROVEMENT

CORWIN NIXON BLVD

WARREN COUNTY WATER WELL FIELD

C8 CURVE DATA
 P.I. = STA. 742+47.06
 $\Delta = 45^{\circ}09'57''$ RT
 $Dc = 02^{\circ}45'00''$
 $R = 2,083.48'$
 $T = 866.54'$
 $L = 1,642.4'$
 $E = 173.02'$

C11 CURVE DATA
 P.I. = STA. 139+37.52
 $\Delta = 53^{\circ}24'57''$ RT
 $Dc = 02^{\circ}36'51''$
 $R = 2,191.74'$
 $T = 1,102.71'$
 $L = 2,043.32'$
 $E = 261.77'$

C12 CURVE DATA
 P.I. = STA. 43+75.14
 $\Delta = 09^{\circ}50'26''$ LT
 $Dc = 02^{\circ}30'39''$
 $R = 2,282.00'$
 $T = 196.45'$
 $L = 391.93'$
 $E = 8.44'$

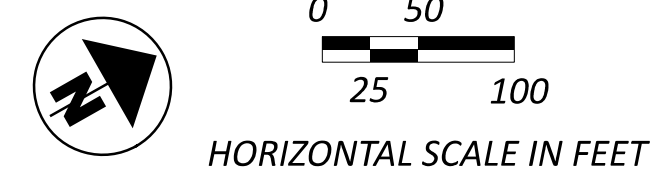
C13 CURVE DATA
 P.I. = STA. 48+01.36
 $\Delta = 04^{\circ}39'14''$ RT
 $Dc = 04^{\circ}32'37''$
 $R = 1,261.00'$
 $T = 51.24'$
 $L = 102.43'$
 $E = 1.04'$

C14 CURVE DATA
 P.I. = STA. 56+28.54
 $\Delta = 21^{\circ}47'45''$ RT
 $Dc = 04^{\circ}30'03''$
 $R = 1,273.00'$
 $T = 245.09'$
 $L = 484.26'$
 $E = 23.38'$

S2 SPIRAL DATA
 P.I. = STA. 751+22.96
 $Ls = 300.00'$
 $Gs = 04^{\circ}07'30''$
 $LT = 200.05'$
 $ST = 100.05'$
 $x = 299.59'$
 $y = 14.39'$
 $k = 149.97'$
 $p = 1.80'$
 $C = 299.93'$
 $C.B. = N26^{\circ}52'40''E$

CURVE & SPIRAL DATA

WAR-SR48-7.50 (PID 117567)
 SR-48 Widening over Little Miami River
 Geometric Layouts [3 of 3]



An aerial photograph of a suburban area with a road network. A semi-transparent white box with a black border is centered in the upper half of the image, containing the title. The map shows a mix of residential streets, green spaces, and a golf course. A river is visible on the right side, and a road junction is labeled at the top. A location pin is placed in the bottom right corner.

SR-48 Roadway Geometrics Design Criteria

Middletown Junction

Little Miami River

Dry Run

South Lebanon

**SR-48 Widening
Warren County, Ohio
Design Criteria**

Criteria	S.R. 48 South of Dwire	S.R. 48 North of Dwire	Dwire Road & Stone Brook Way	Little Miami River Bridge	Turtle Creek Bridge	Mason Morrow Millgrove Road
Functional Classification	Principal Arterial	Principal Arterial	Local Road	Principal Arterial	Principal Arterial	Major Collector
Roadway Type	Urban	Urban	Urban	Urban	Urban	Urban
Design Speed	45 MPH	55 MPH	30 MPH	55 MPH	55 MPH	40 MPH
Legal Speed	45 MPH	50 MPH	25 MPH	50 MPH	50 MPH	35 MPH (West of S.R. 48) 40 MPH (East of S.R. 48)
National Truck Network	NO	NO	NO	NO	NO	NO
National Highway System	NO	NO	NO	NO	NO	NO
Lane Width	11'	12'	10' min	12'	12'	11'
Paved Shoulder Width (Curbed)	1-2 Paved (or curb & gutter)	8' (Undivided) 4' In/10' Out (Divided)	1-2 Paved (or curb & gutter)	8' (Undivided) 4' In/10' Out (Divided)	8' (Undivided) 4' In/10' Out (Divided)	1-2 Paved (or curb & gutter)
Paved Shoulder Width (Uncurbed)	8'	10' * Outside 4' Inside	4'	10' * Outside 4' Inside	8' (Undivided) 4' In/10' Out (Divided)	8' min to 11' max
Graded Shoulder Width	8' min to 13' max	8' min to 13' max	8' min to 11' max	N/A	N/A	N/A
Sidewalk Width + Buffer (if applicable)	6' width + 6' buffer	N/A	6' width + 6' buffer	N/A	N/A	N/A
ADT (2050)	28,500	28,500	4,360 (Dwire) 2,480 (Stone Brook)	28,500	28,500	15,330

Note: For any proposed divided section of S.R. 48, the inside shoulder width can be reduce to 4-feet

* Per ODOT L&D. Vol. 1 Figure 302-1, shoulder width may be reduced to 4-foot minimum for any bridge over 200-feet in length, subject to economic studies

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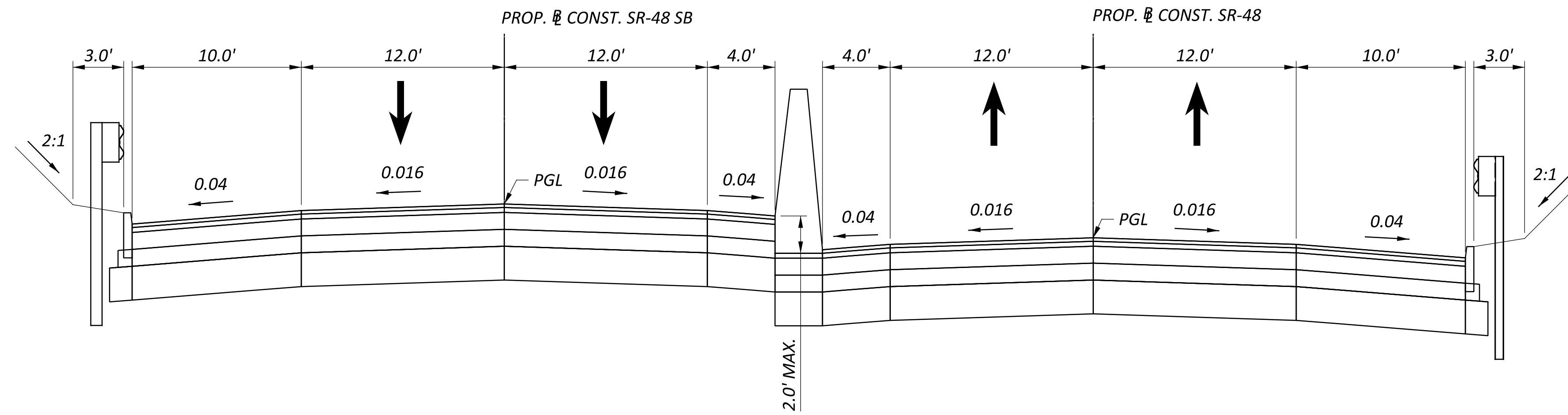
SR-48 Roadway Geometrics Typical Sections

Middletown Junction

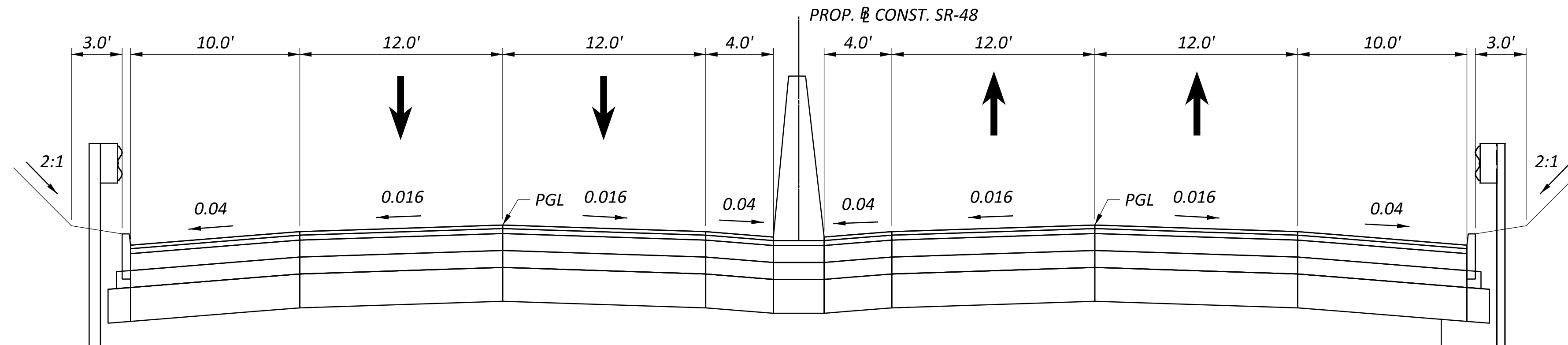
Little Miami River

Dry Run

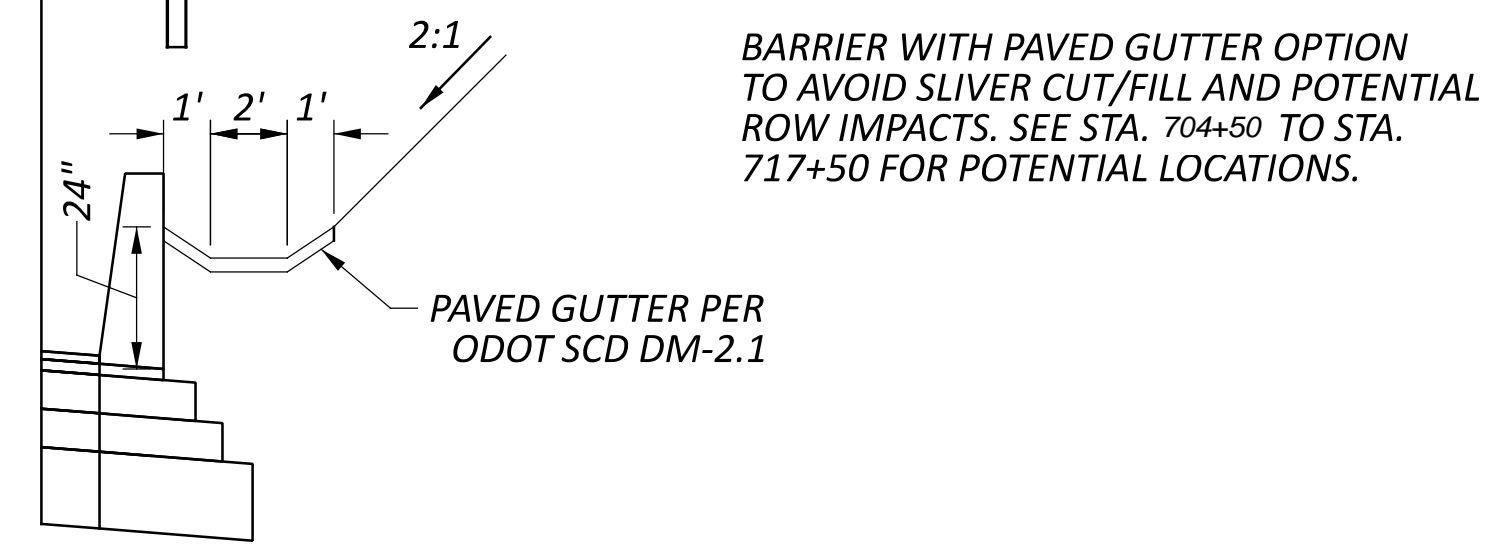
South Lebanon



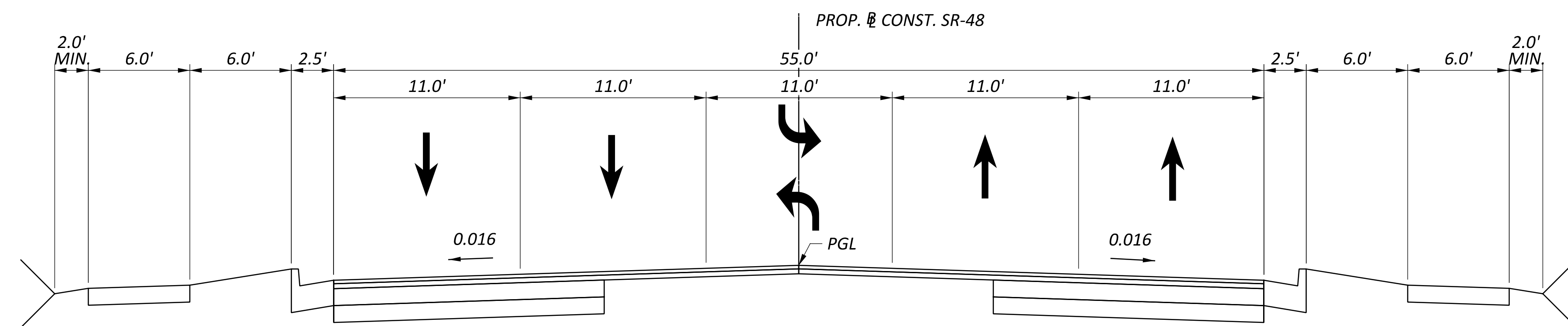
PROPOSED TYPICAL SECTION
 SR-48
 BEGIN PROP. & CONST. SR-48 TO LITTLE MIAMI RIVER
 SECTION C-C



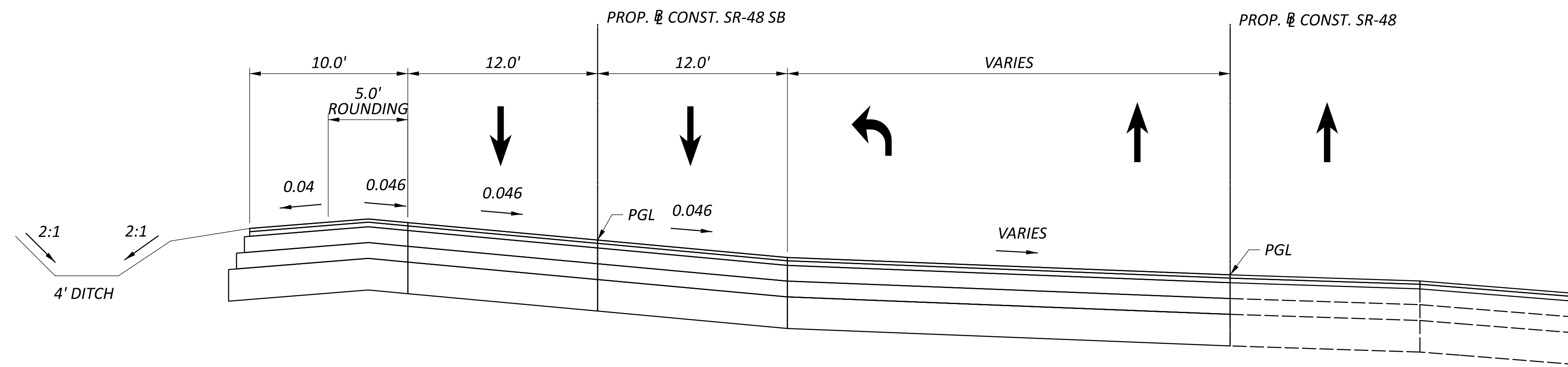
PROPOSED TYPICAL SECTION
 SR-48
 NORTH DWIRE ROAD TO BEGIN PROP. & CONST. SR-48
 SECTION B-B



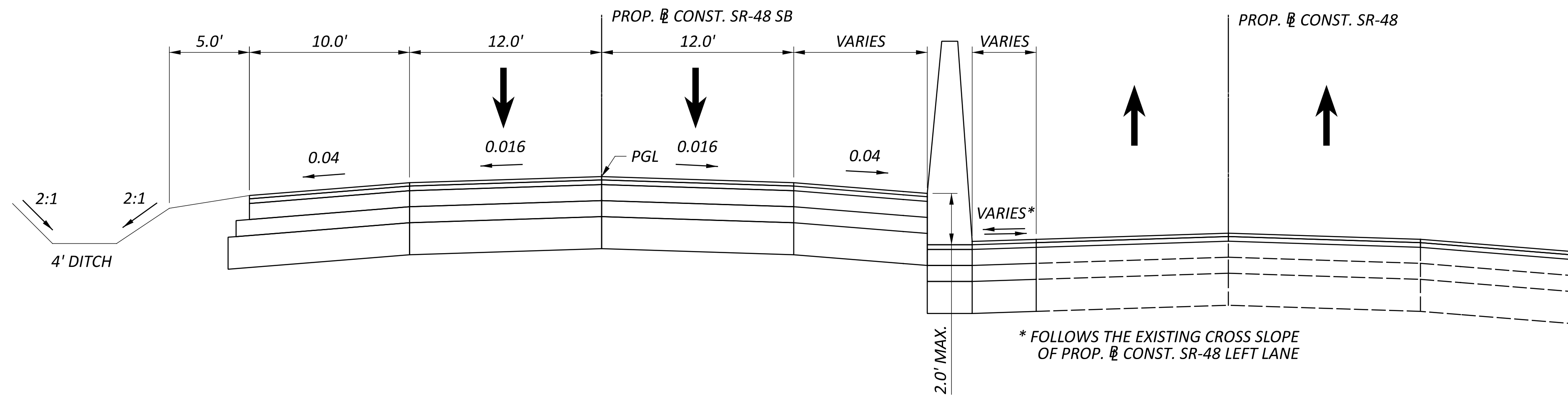
BARRIER WITH PAVED GUTTER OPTION
 TO AVOID SLIVER CUT/FILL AND POTENTIAL
 ROW IMPACTS. SEE STA. 704+50 TO STA.
 717+50 FOR POTENTIAL LOCATIONS.



PROPOSED TYPICAL SECTION
 SR-48
 SOUTH DWIRE ROAD
 SECTION A-A



PROPOSED TYPICAL SECTION
SR-48
TURTLE CREEK TO MASON MORROW MILLGROVE
SECTION E-E



* FOLLOWS THE EXISTING CROSS SLOPE
OF PROP. ▯ CONST. SR-48 LEFT LANE

PROPOSED TYPICAL SECTION
SR-48
LITTLE MIAMI RIVER TO TURTLE CREEK
SECTION D-D

An aerial photograph of a suburban area with a road network. A semi-transparent white box with a black border is centered in the upper half of the image, containing the title text. The background shows a mix of residential streets, green spaces, and a golf course. A river is visible on the right side, and a road junction is labeled at the top. A location pin is placed in the bottom right corner.

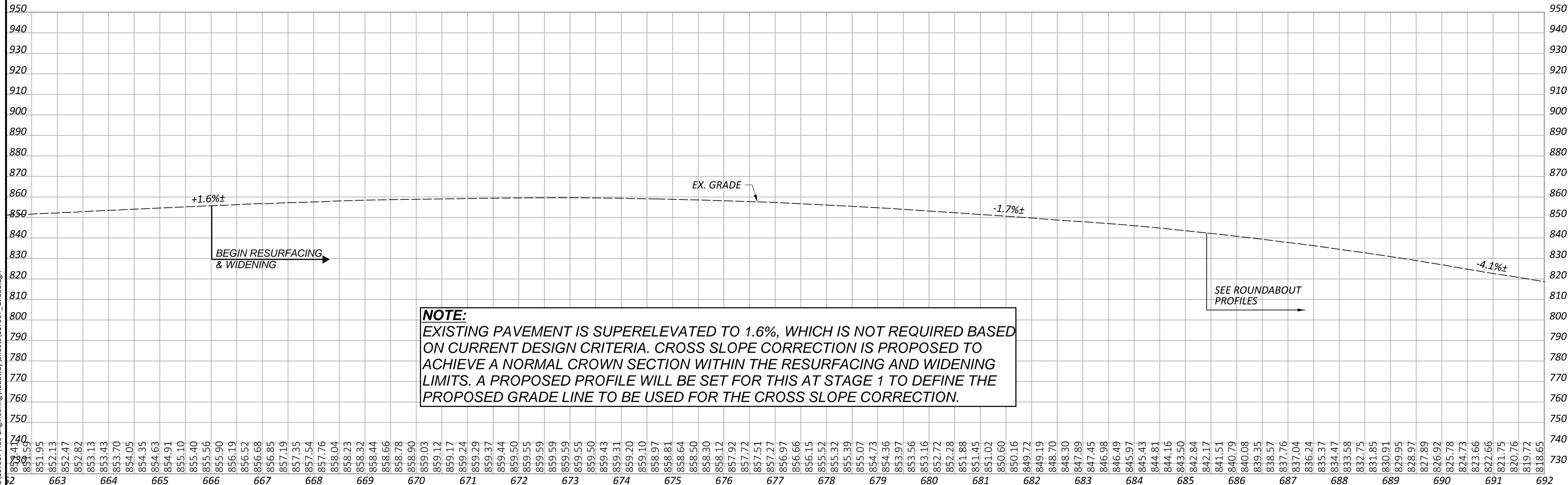
SR-48 Roadway Geometrics Profiles

Middletown Junction

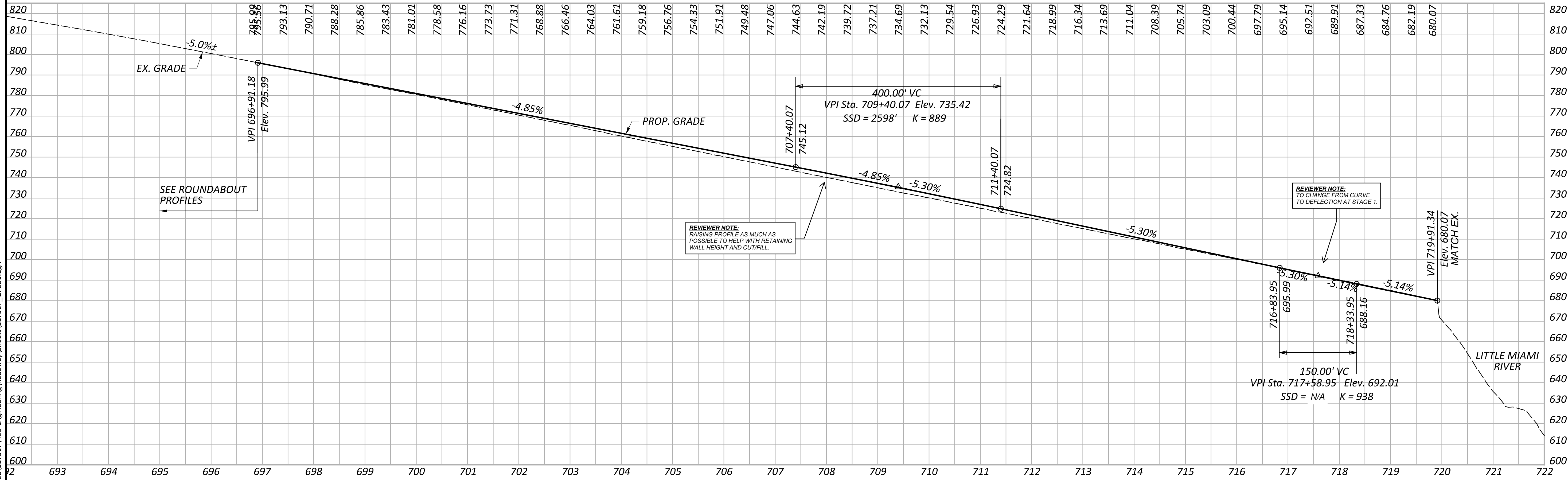
Little Miami River

Dry Run

South Lebanon

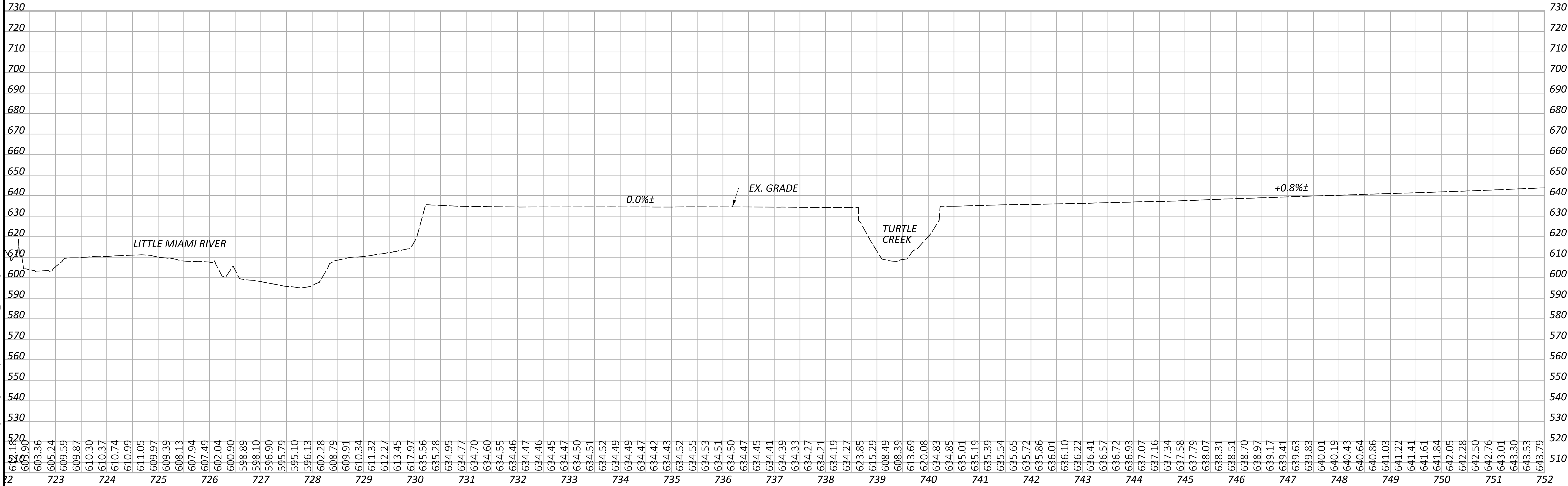


662	854.41	854.59	851.95
663	852.13	852.47	852.82
664	853.13	853.43	853.70
665	854.35	854.63	854.91
666	855.10	855.56	855.90
667	856.52	856.68	856.85
668	857.35	857.54	857.76
669	858.23	858.32	858.44
670	858.78	858.90	859.03
671	859.12	859.17	859.24
672	859.59	859.59	859.59
673	859.55	859.55	859.55
674	859.31	859.20	859.10
675	858.81	858.64	858.50
676	858.30	858.12	857.92
677	857.72	857.51	857.27
678	856.66	856.15	855.52
679	855.32	855.39	855.07
680	854.73	854.36	853.97
681	853.56	853.16	852.72
682	852.28	851.88	851.45
683	850.60	850.16	849.72
684	849.19	848.70	848.30
685	847.89	847.45	846.98
686	846.49	845.97	845.43
687	844.81	844.16	843.50
688	842.84	842.17	841.51
689	840.79	840.08	839.35
690	838.57	837.76	837.04
691	836.24	835.37	834.47
692	833.58	832.75	831.85
	830.91	829.95	828.97
	827.89	826.92	825.78
	824.73	823.66	822.66
	821.75	820.76	819.72
	818.65		



CTY-RTE-SECTION

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PROFILES
 PROP. BL CONST. SR-48

DESIGN AGENCY



DESIGNER
 MAS

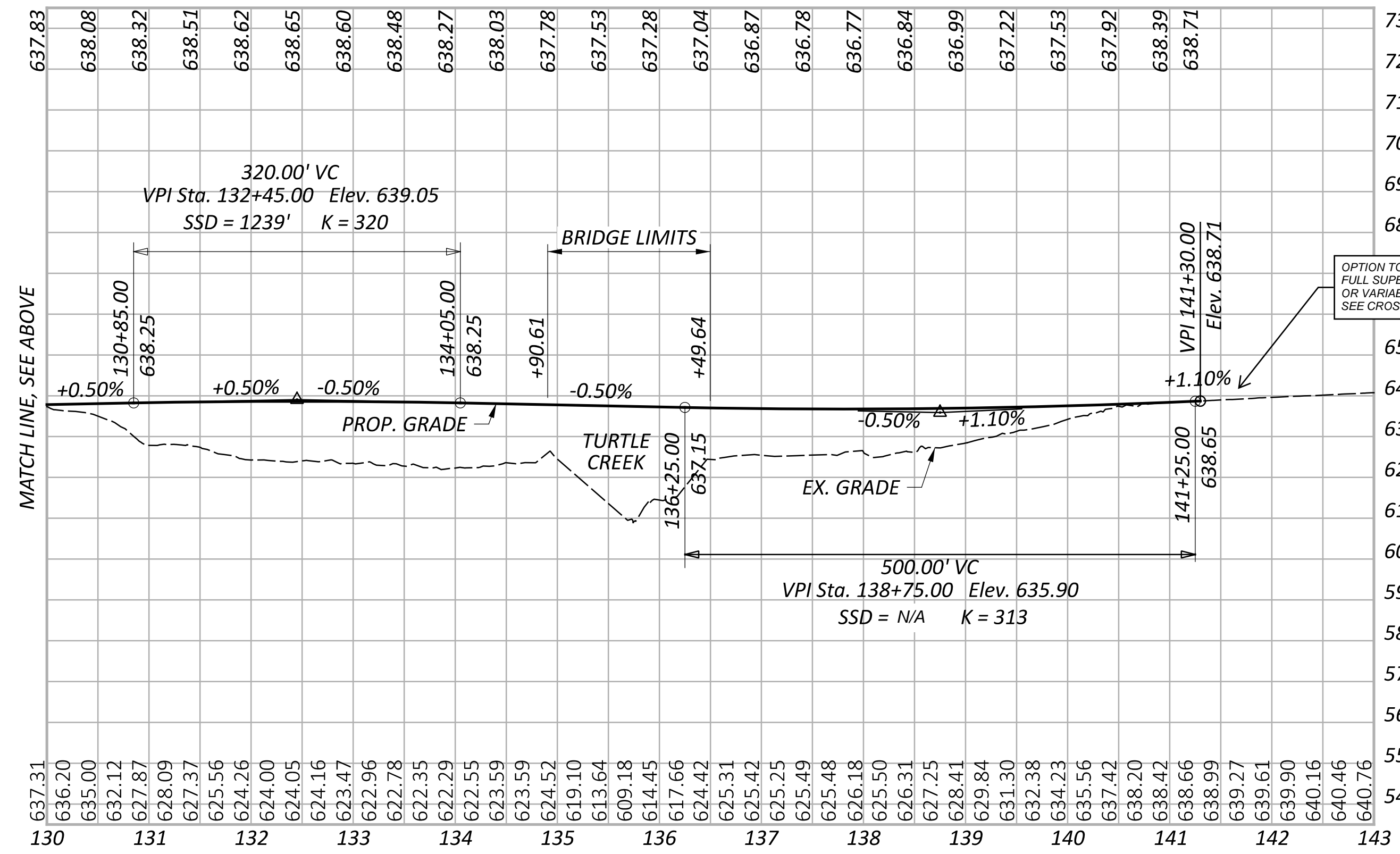
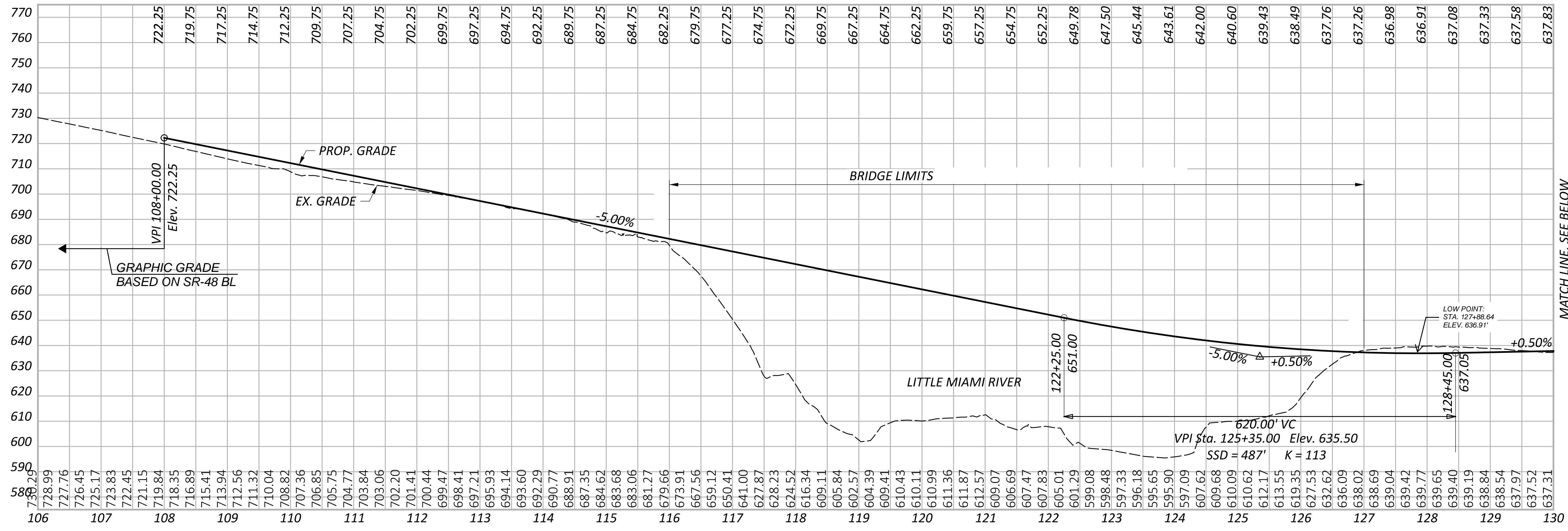
REVIEWER
 DSS 04-17-26

PROJECT ID

SHEET	TOTAL
P.3	P.4

CTY-RTE-SECTION

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OPTION TO CONTINUE FULL DEPTH PAVEMENT & FULL SUPERELEVATION THROUGH INTERSECTION OR VARIABLE MILLING & RESURFACING SEE CROSS SECTIONS FOR MORE DETAILS

PROFILES
 PROP. BL CONST. SR-48 SB

An aerial photograph of a suburban area with a road network. A semi-transparent white box with a black border is centered in the upper half of the image, containing the title. The background shows a mix of residential streets, green spaces, and a golf course. Labels for 'Middletown Junction', 'Little Miami River', 'Dry Run', and 'South Lebanon' are visible on the map.

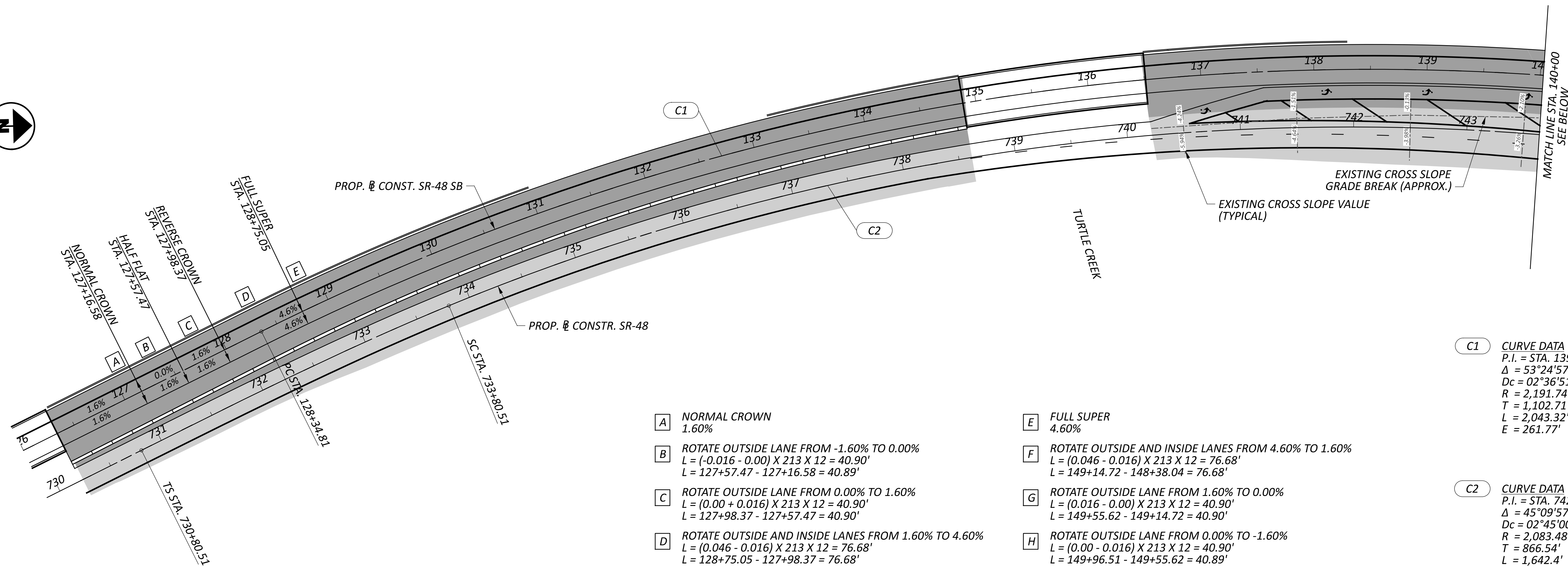
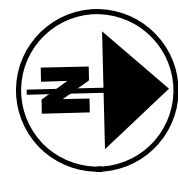
SR-48 Roadway Geometrics Superelevation Schematic

Middletown Junction

Little Miami River

Dry Run

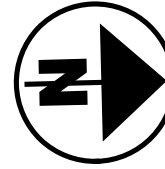
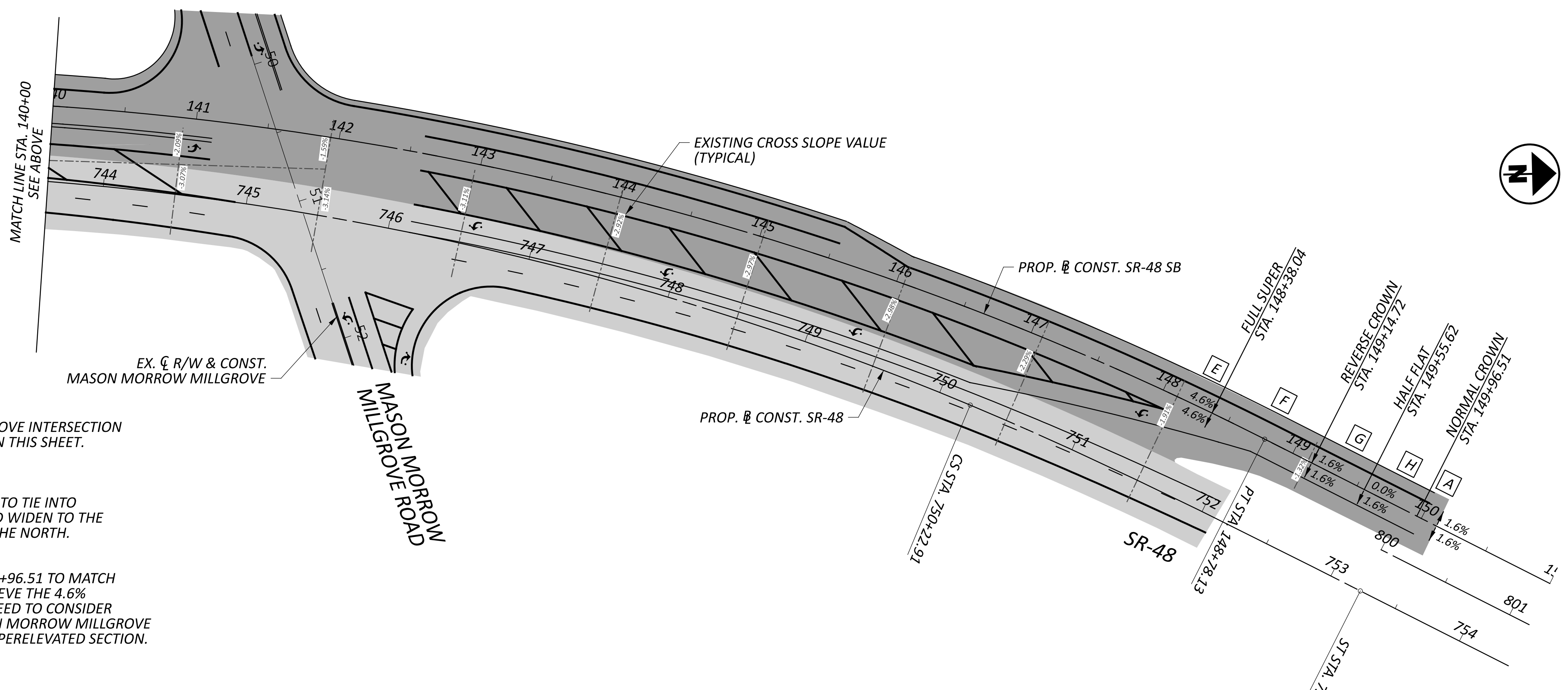
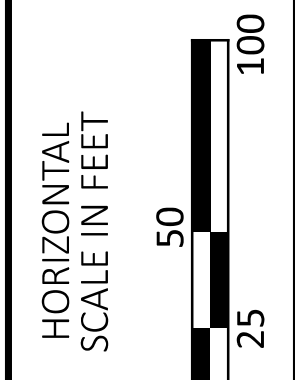
South Lebanon



- A** NORMAL CROWN
1.60%
- B** ROTATE OUTSIDE LANE FROM -1.60% TO 0.00%
 $L = (-0.016 - 0.00) \times 213 \times 12 = 40.90'$
 $L = 127+57.47 - 127+16.58 = 40.89'$
- C** ROTATE OUTSIDE LANE FROM 0.00% TO 1.60%
 $L = (0.00 + 0.016) \times 213 \times 12 = 40.90'$
 $L = 127+98.37 - 127+57.47 = 40.90'$
- D** ROTATE OUTSIDE AND INSIDE LANES FROM 1.60% TO 4.60%
 $L = (0.046 - 0.016) \times 213 \times 12 = 76.68'$
 $L = 128+75.05 - 127+98.37 = 76.68'$
- E** FULL SUPER
4.60%
- F** ROTATE OUTSIDE AND INSIDE LANES FROM 4.60% TO 1.60%
 $L = (0.046 - 0.016) \times 213 \times 12 = 76.68'$
 $L = 149+14.72 - 148+38.04 = 76.68'$
- G** ROTATE OUTSIDE LANE FROM 1.60% TO 0.00%
 $L = (0.016 - 0.00) \times 213 \times 12 = 40.90'$
 $L = 149+55.62 - 149+14.72 = 40.90'$
- H** ROTATE OUTSIDE LANE FROM 0.00% TO -1.60%
 $L = (0.00 - 0.016) \times 213 \times 12 = 40.90'$
 $L = 149+96.51 - 149+55.62 = 40.89'$

C1 CURVE DATA
 P.I. = STA. 139+37.52
 $\Delta = 53^\circ 24' 57''$ RT
 $Dc = 02^\circ 36' 51''$
 $R = 2,191.74'$
 $T = 1,102.71'$
 $L = 2,043.32'$
 $E = 261.77'$

C2 CURVE DATA
 P.I. = STA. 742+47.06
 $\Delta = 45^\circ 09' 57''$ RT
 $Dc = 02^\circ 45' 00''$
 $R = 2,083.48'$
 $T = 866.54'$
 $L = 1,642.4'$
 $E = 173.02'$



REVIEWER NOTE:
 EXISTING SR-48 SOUTHBOUND PAVEMENT THROUGH MASON MORROW MILLGROVE INTERSECTION IS SUPER ELEVATED AT ABOUT 2%. EXISTING CROSS SLOPE VALUES ARE NOTED ON THIS SHEET. PAVEMENT OPTIONS THROUGH THE INTERSECTION ARE:

1. AVOID FULL DEPTH PAVEMENT. HOLD 4.6% SUPERELEVATION SOUTH OF THE INTERSECTION AND ROTATE DOWN TO TIE INTO EXISTING CROSS SLOPE AT THE INTERSECTION NEAR STA 141+00. RESURFACE AND WIDEN TO THE NORTH, MAINTAINING EXISTING CROSS SLOPE AND PAVEMENT ELEVATIONS TO THE NORTH.
2. HOLD SUPERELEVATION THROUGHOUT THE ENTIRE CURVE. FULL DEPTH PAVEMENT ALONG THE ENTIRE SOUTHBOUND SR-48 UNTIL STA. 149+96.51 TO MATCH EXISTING CROWN, OR UTILIZE CROSS SLOPE CORRECTION AND OVERLAY TO ACHIEVE THE 4.6% SUPERELEVATION AS SHOWN FOR THE PROPOSED SOUTHBOUND CURVE. MAY NEED TO CONSIDER POTENTIAL LOAD SHIFT FOR TRUCKS MAKING THE EB RIGHT TURN FROM MASON MORROW MILLGROVE TURNING ONTO SR-48 SB, SINCE THEY WOULD BE TURNING ONTO A STEEPER SUPERELEVATED SECTION.

SEE CROSS SECTIONS FOR MORE DETAILS

CTY-RTE-SECTION

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DESIGN AGENCY



DESIGNER	MAS
REVIEWER	DSS 04-17-26
PROJECT ID	
SHEET	P.1
TOTAL	P.1

SUPERELEVATION SCHEMATIC
SR-48



Middletown Junction

SR-48 Roadway Geometrics Cross Sections

REVIEWER NOTE:
MULTIPLE GRADING OPTIONS ON EACH CROSS SECTION TO SHOW HOW GRADING FITS WITHIN THE EXISTING TERRAIN, ROW, UTILITIES, AND PROPOSED DESIGN. WILL NARROW DOWN GRADING IN STAGE 1.

South Lebanon

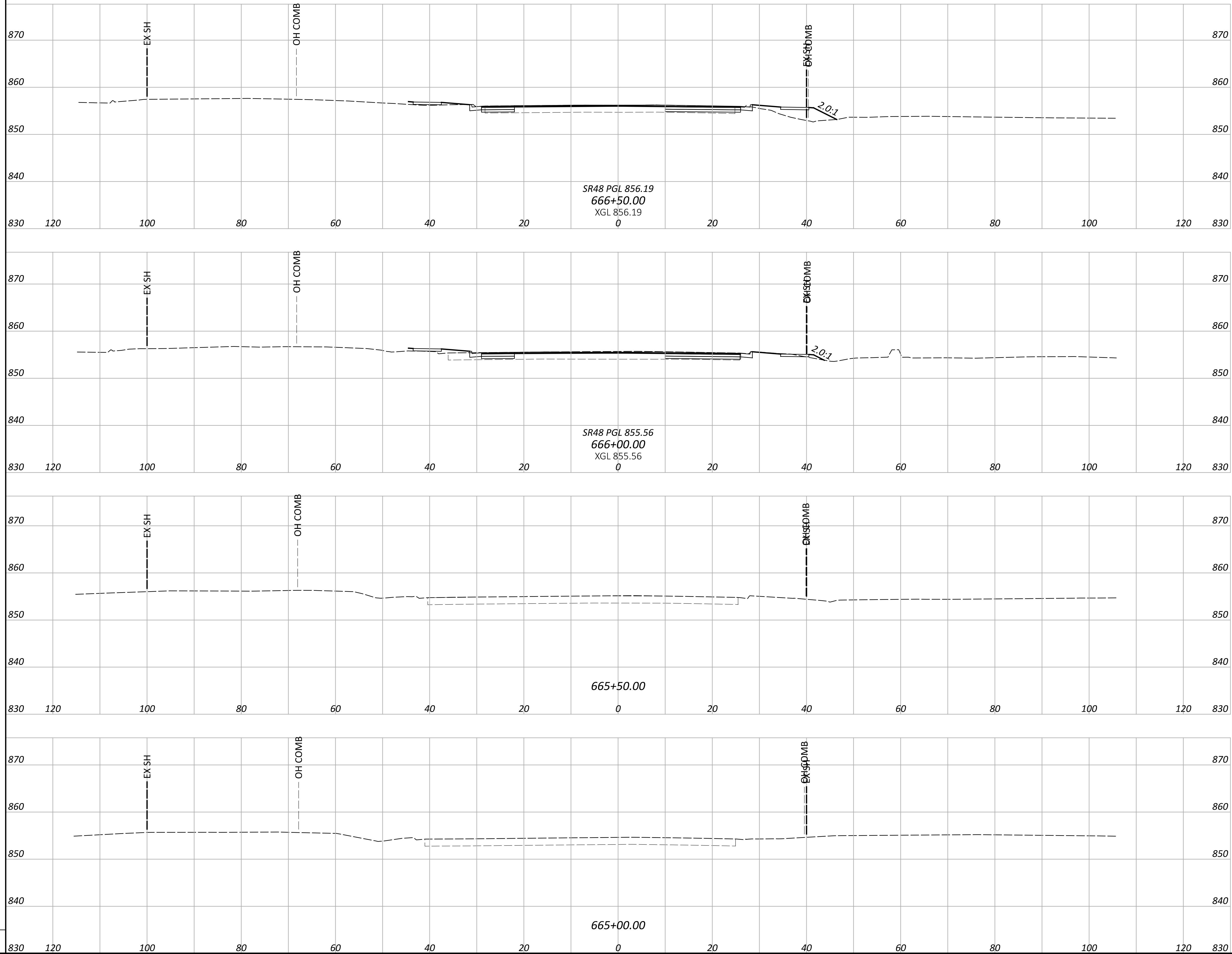
Dry Run

Little Miami River

CTY-RTE-SECTION

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SEEDING
END SQ.
WIDTH YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
SHEET TOTALS			

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY



DESIGNER
MAS
REVIEWER
DSS 04-17-26
PROJECT ID

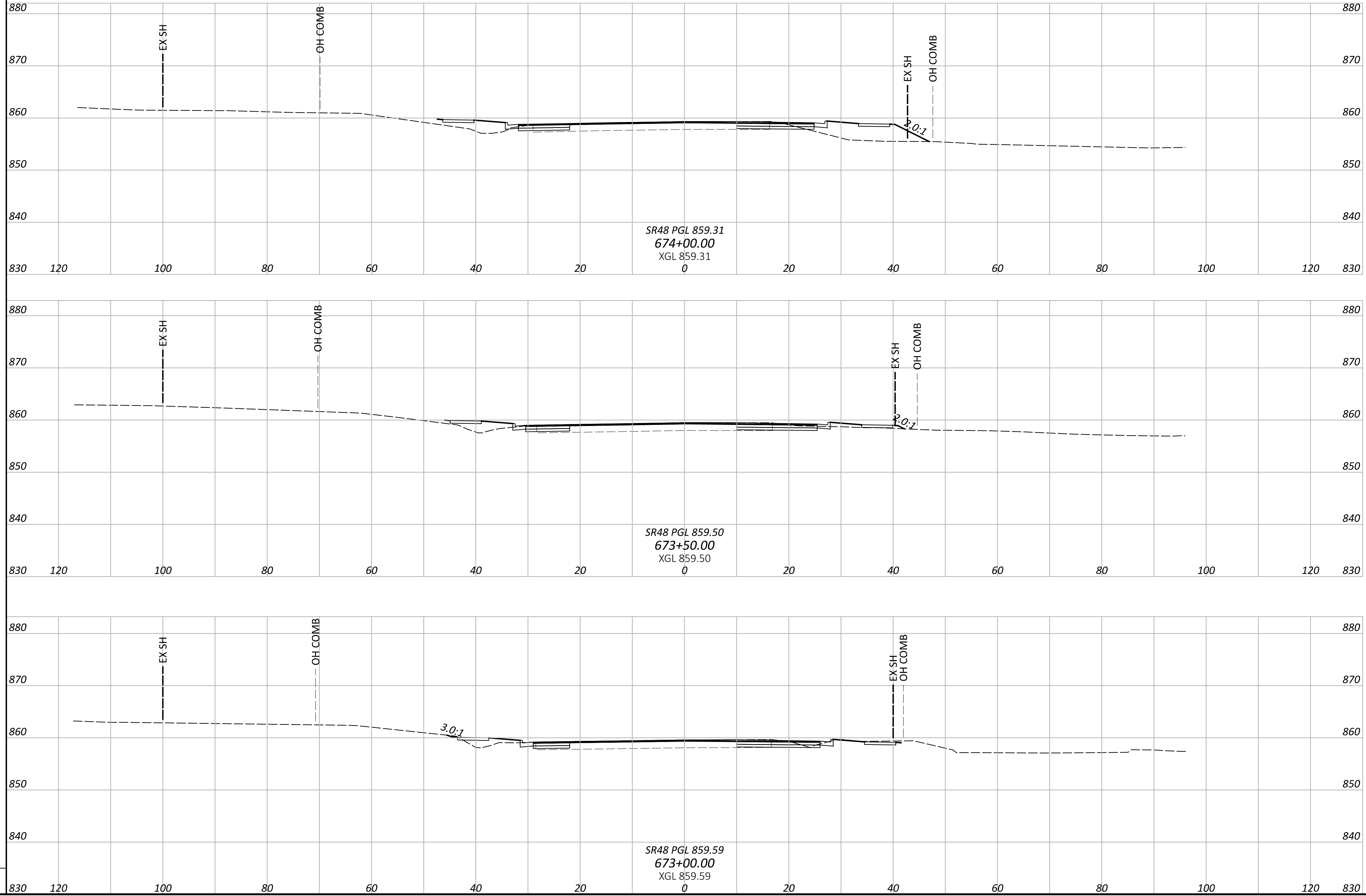
SHEET TOTAL
P.1 P.51

SHEET TOTAL

SEEDING

END WIDTH	SQ. YDS.
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SHEET TOTAL



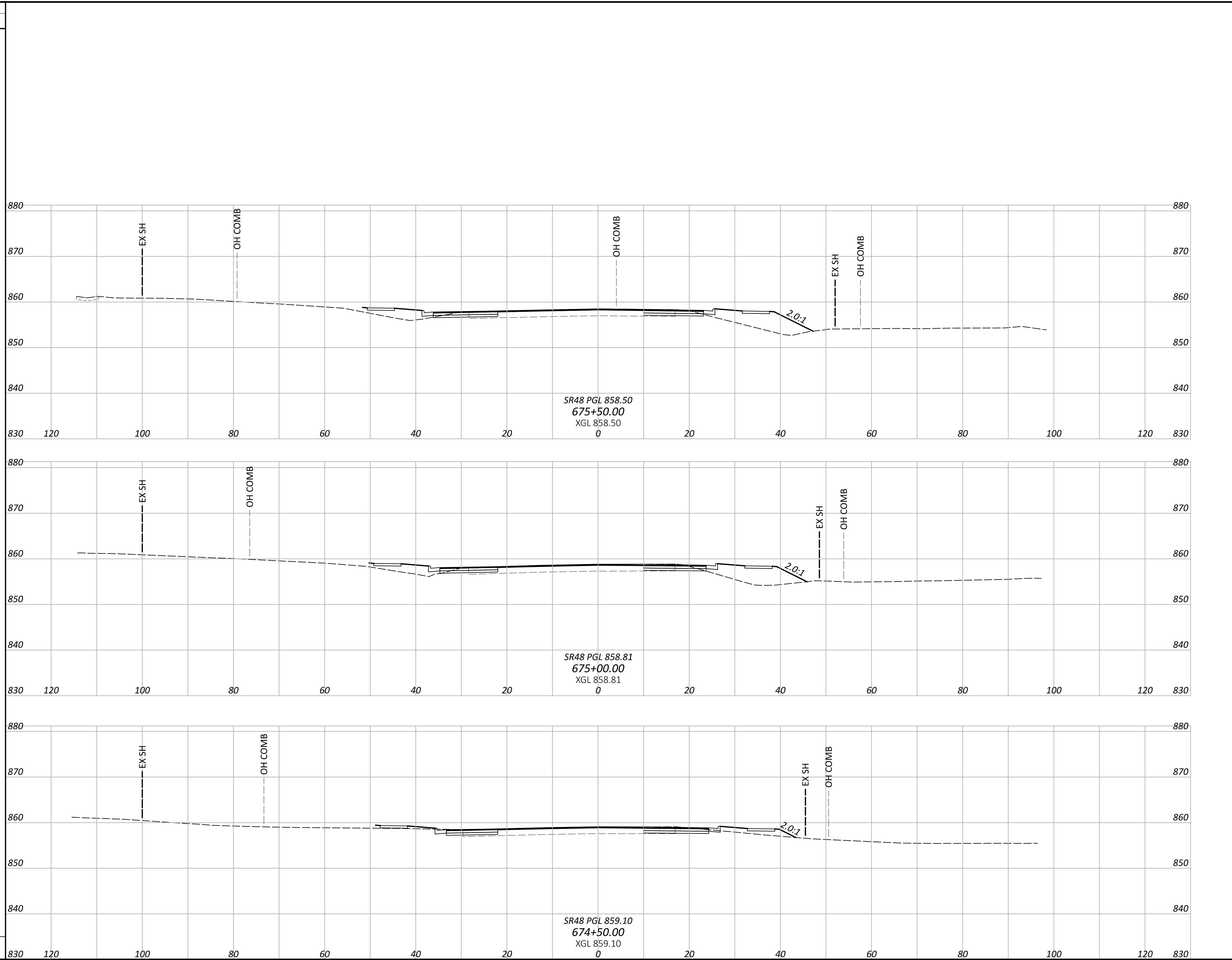
END AREA		VOLUME	
CUT	FILL	CUT	FILL

0	0	0	0	0	0
SHEET TOTALS					

PRELIMINARY CROSS SECTIONS
SR-48

SEEDING

END SQ.
WIDTH YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
0	0	0	0
0	0	0	0
SHEET TOTALS			

PRELIMINARY CROSS SECTIONS
SR-48



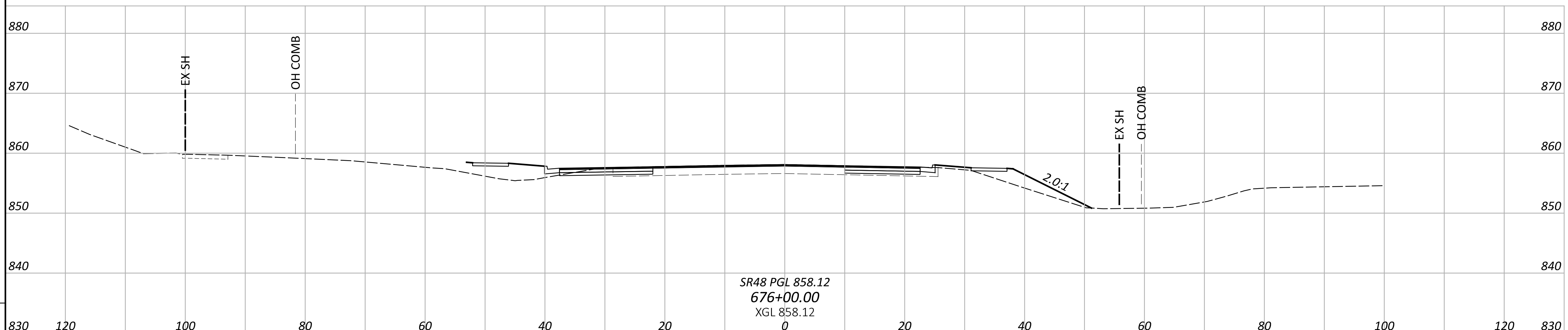
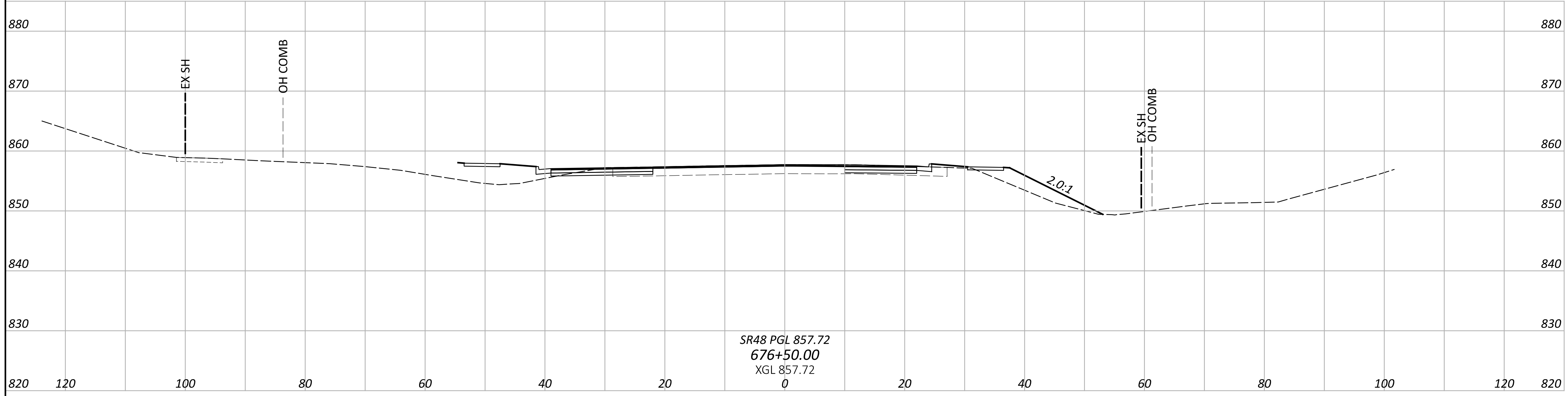
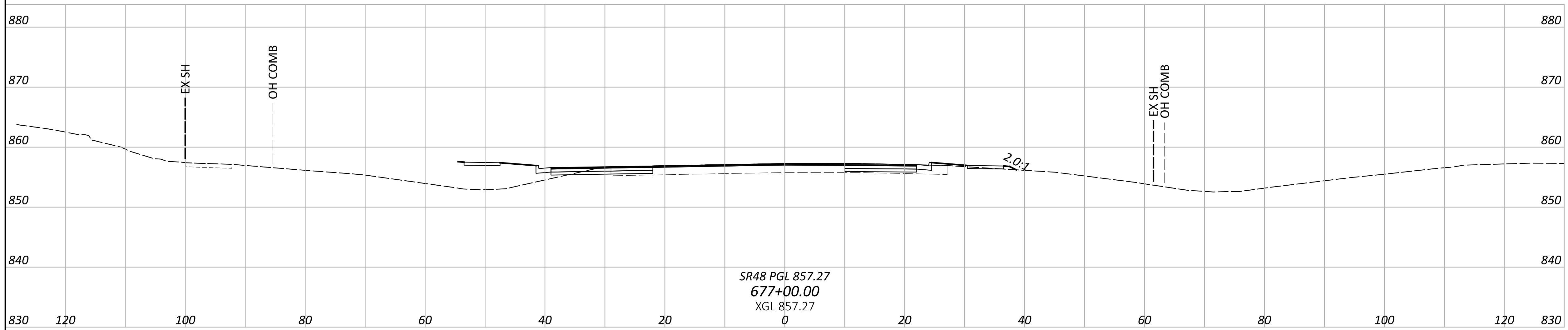
DESIGNER
MAS
REVIEWER
DSS 04-17-26
PROJECT ID

CTY-RTE-SECTION

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SEEDING

END SQ.
 WIDTH YDS.



SHEET TOTAL	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	0	0		
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
SHEET TOTALS				

PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY

B&N
 burgessniple.com

DESIGNER
 MAS

REVIEWER
 DSS 04-17-26

PROJECT ID

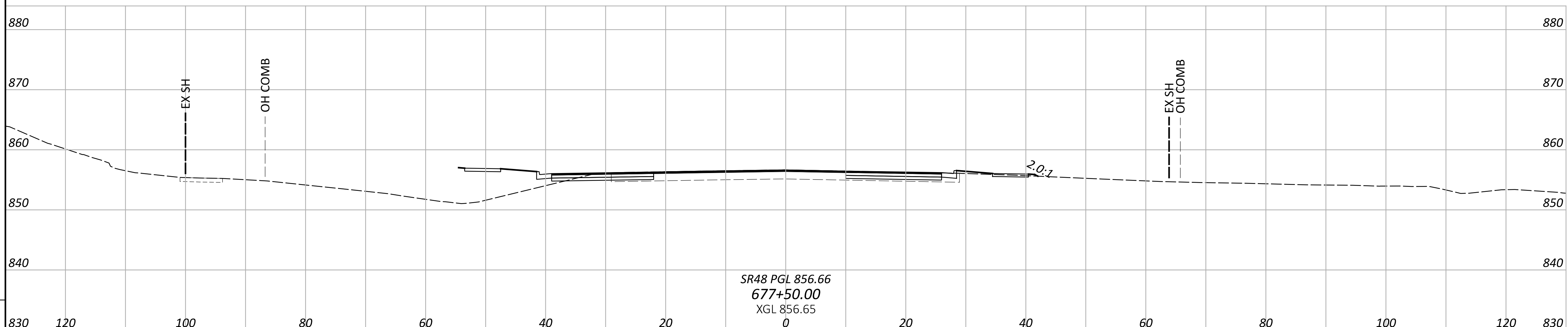
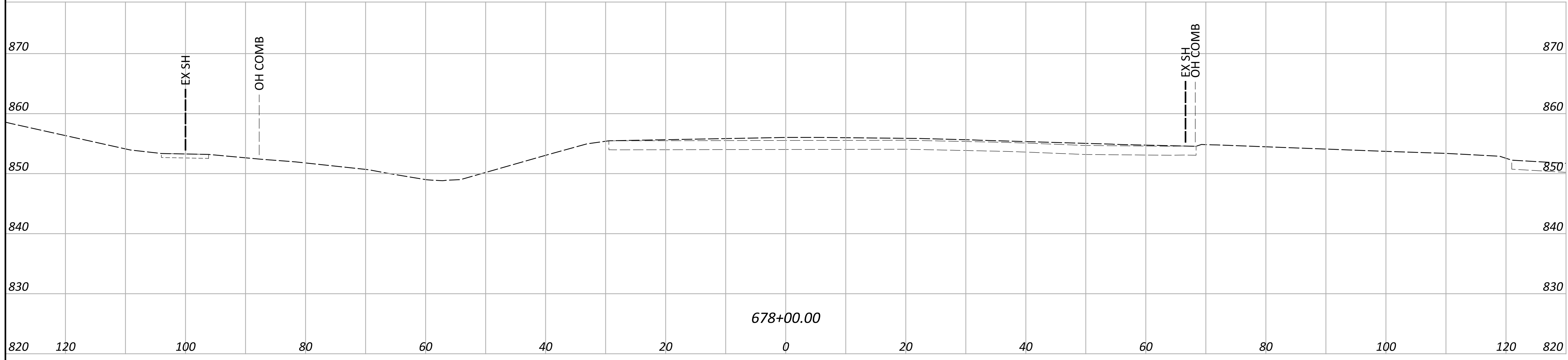
SHEET	TOTAL
P.8	P.51

CTY-RTE-SECTION

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SEEDING

END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
		0	0
		0	0
SHEET TOTALS			

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY



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MAS

REVIEWER
DSS 04-17-26

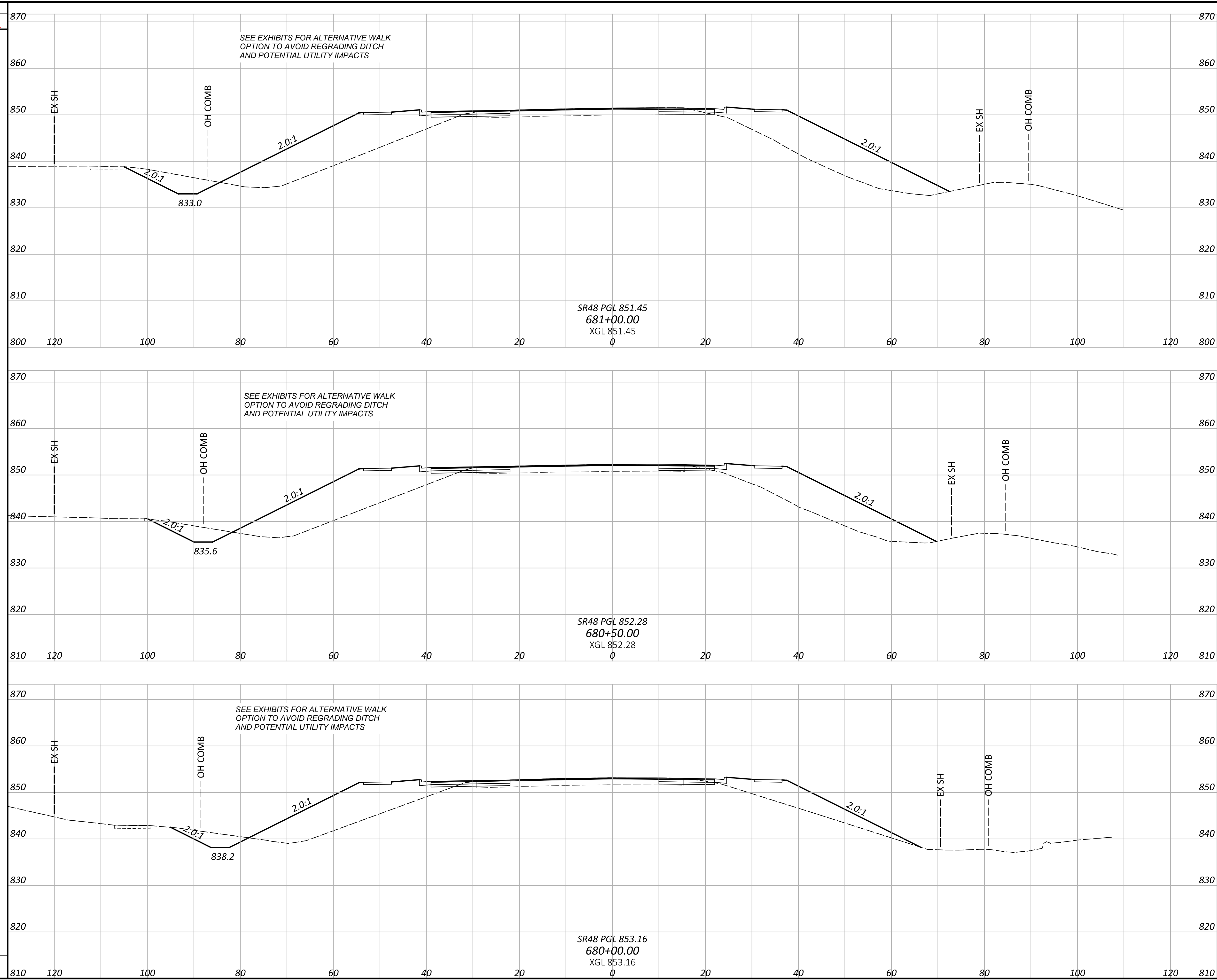
PROJECT ID

SHEET	TOTAL
P.9	P.51

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SEEDING

END WIDTH	SQ. YDS.
-----------	----------



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
SHEET TOTALS				

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY



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MAS

REVIEWER

DSS 04-17-26

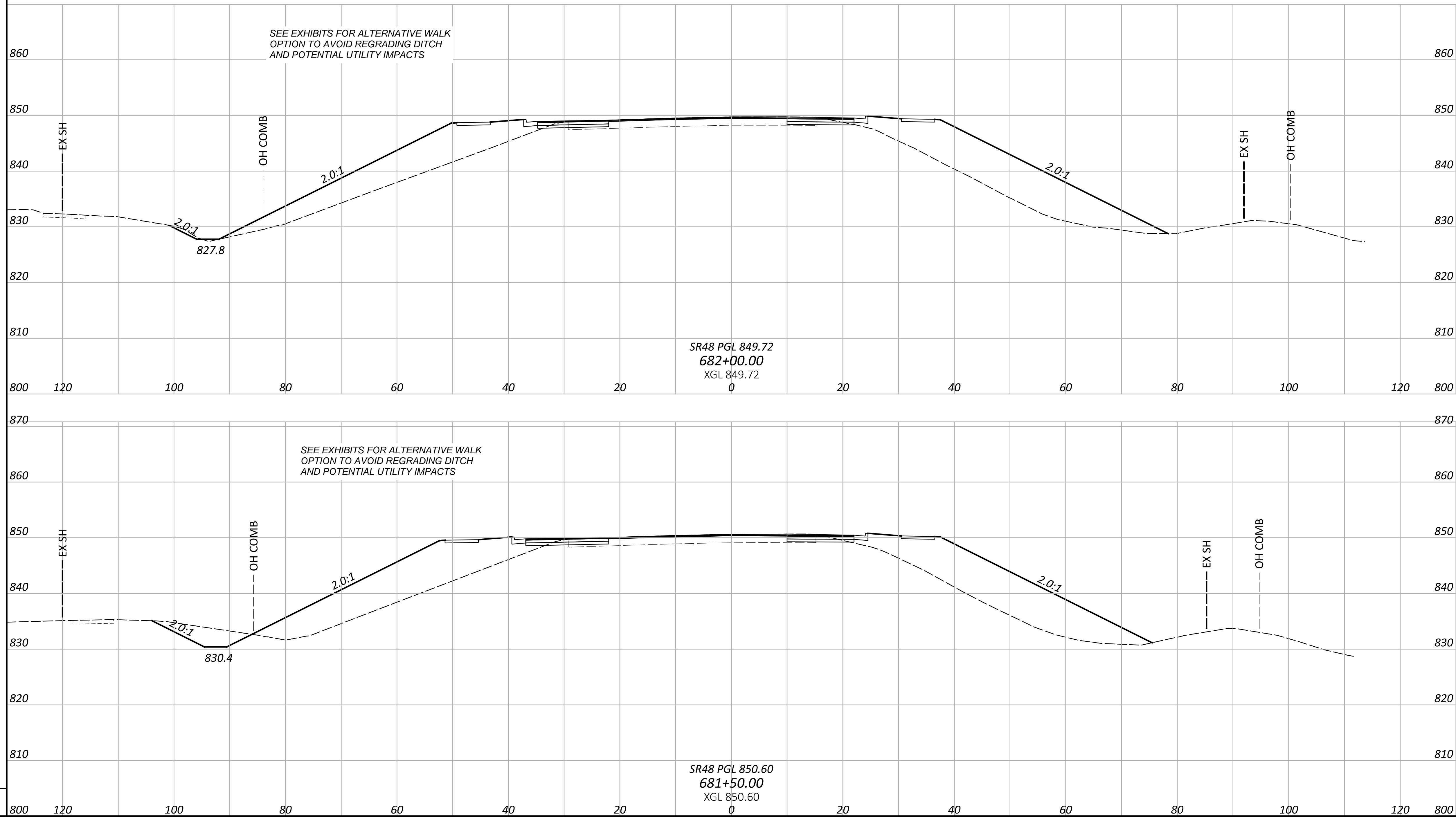
PROJECT ID

SHEET	TOTAL
P.11	P.51

SEEDING

END SQ.
WIDTH YDS.

SHEET TOTAL



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
0	0	0	0
SHEET TOTALS			

PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY



DESIGNER
 MAS

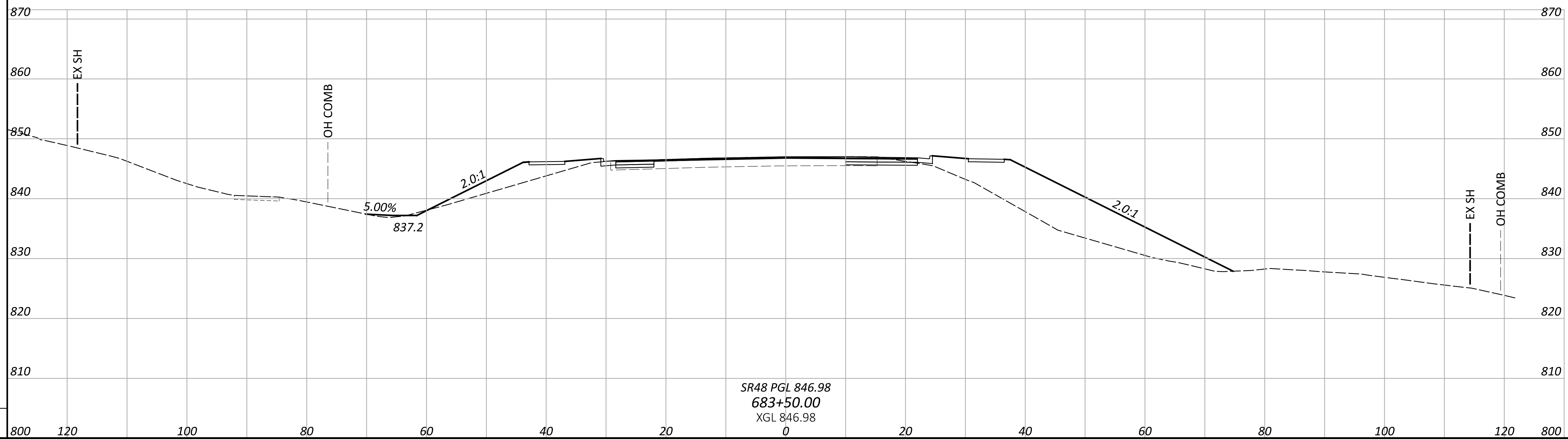
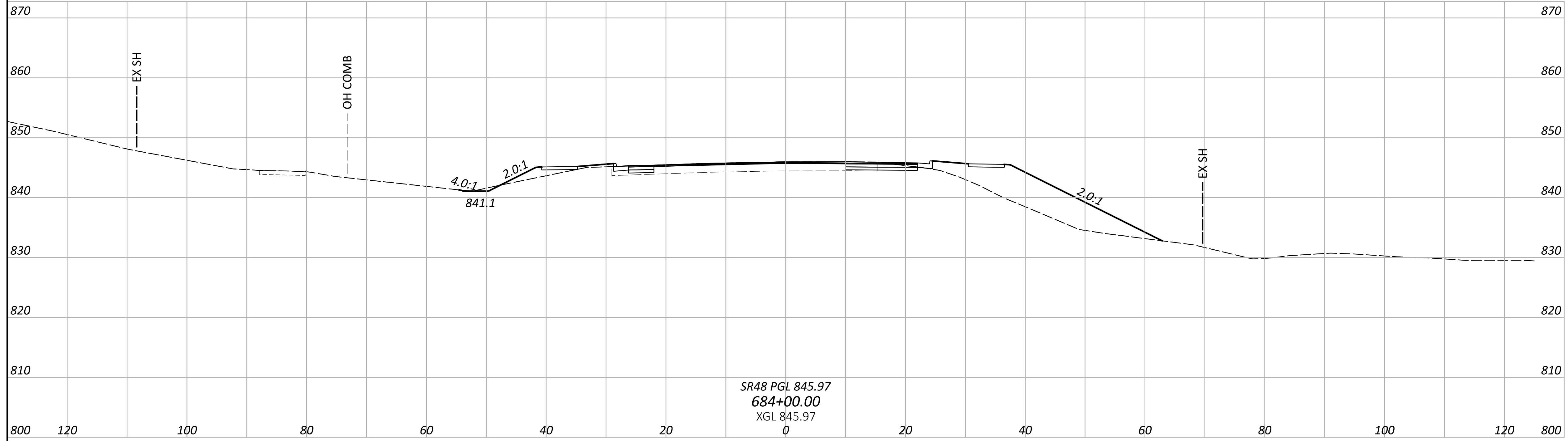
REVIEWER
 DSS 04-17-26

PROJECT ID

SHEET TOTAL
 P.12 P.51

SEEDING

END SQ.
 WIDTH YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
0	0	0	0
SHEET TOTALS		0	0

PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY



DESIGNER
 MAS

REVIEWER
 DSS 04-17-26

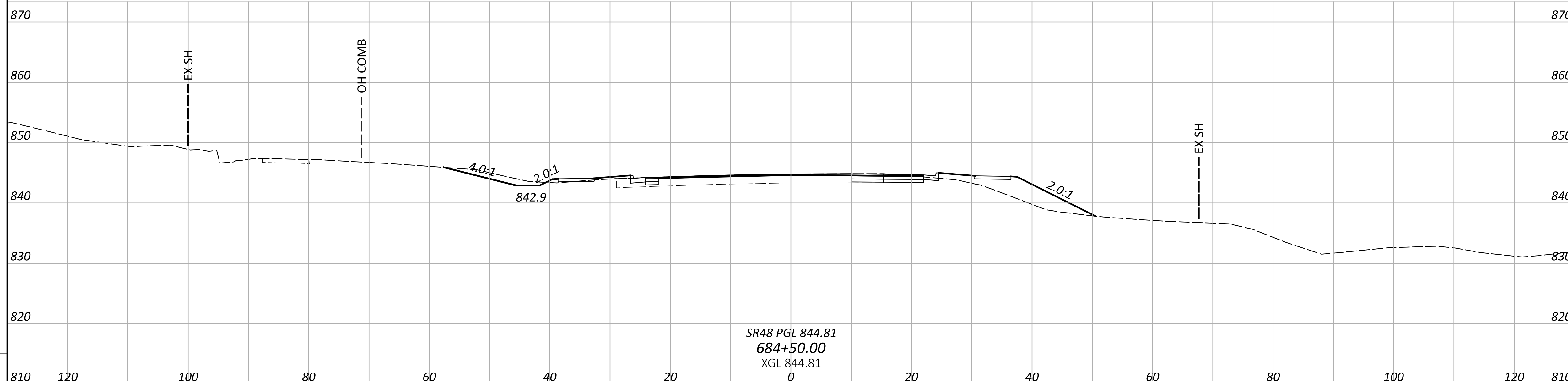
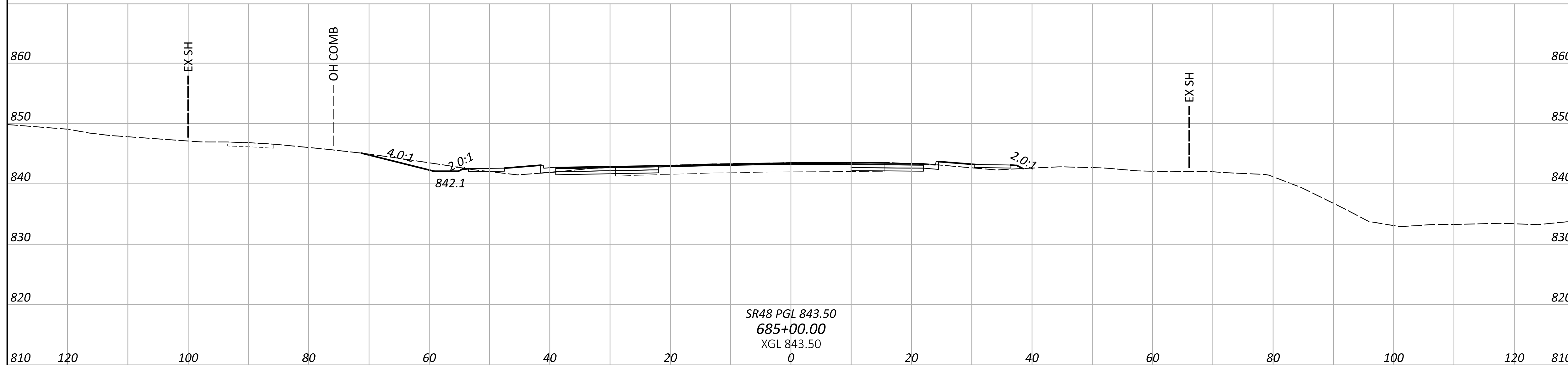
PROJECT ID

SEEDING

END SQ.
WIDTH YDS.

SHEET TOTAL

BEGIN DWIRE ROUNDABOUT



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
0	0	0	0
SHEET TOTALS			

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY



DESIGNER

MAS

REVIEWER

DSS 04-17-26

PROJECT ID

SHEET TOTAL

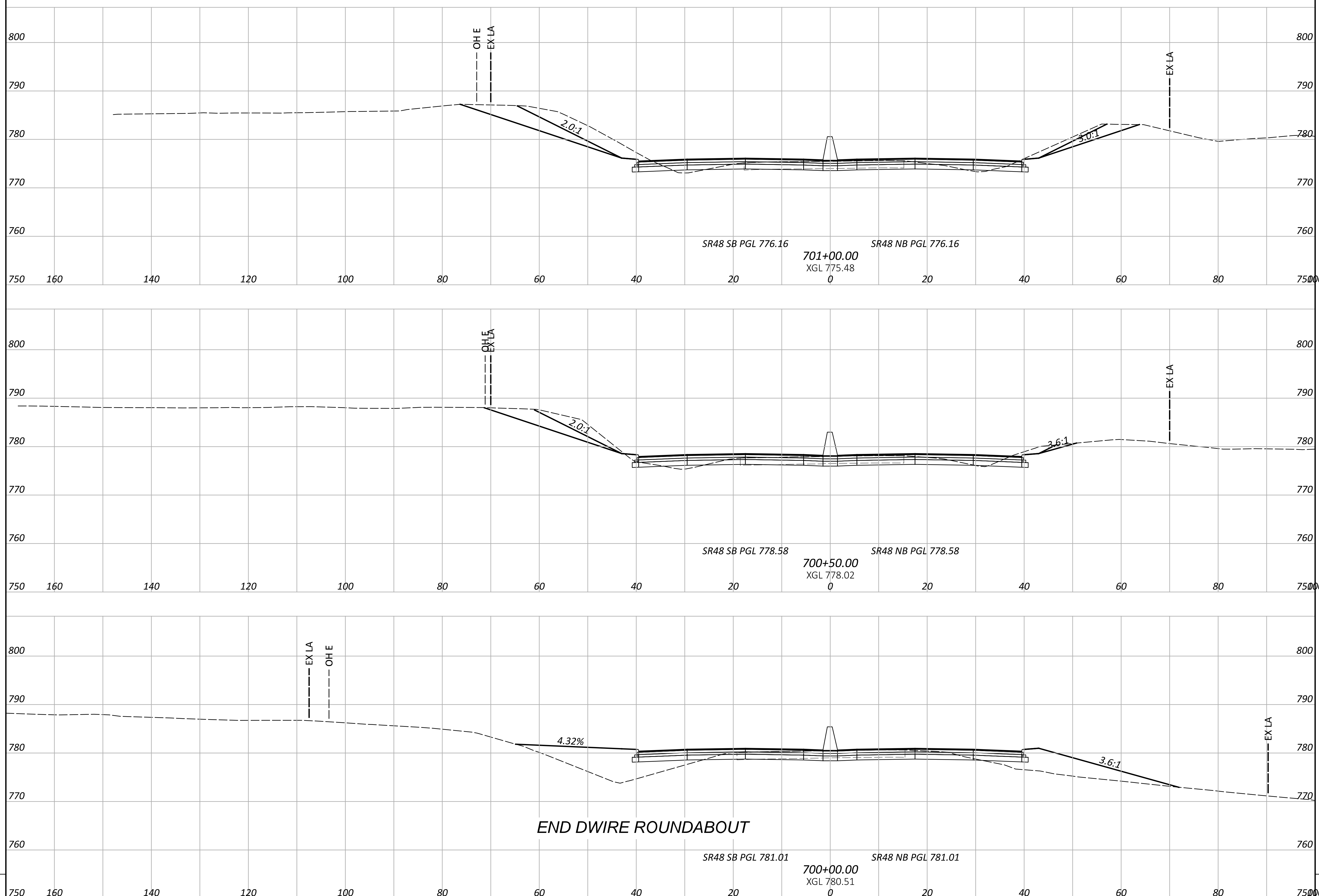
P.15 P.51

WAR-SR48-7.50

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SEEDING

END WIDTH	SQ. YDS.	
	CUT	FILL
750		
160		
140		
120		
100		
80		
60		
40		
20		
0		
20		
40		
60		
80		
100		
120		
140		
160		
750		
SHEET TOTAL		



END AREA	VOLUME	
	CUT	FILL
750	0	0
160		
140		
120		
100		
80		
60		
40		
20		
0		
20		
40		
60		
80		
100		
120		
140		
160		
750	0	0
SHEET TOTALS		

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY



DESIGNER

MAS

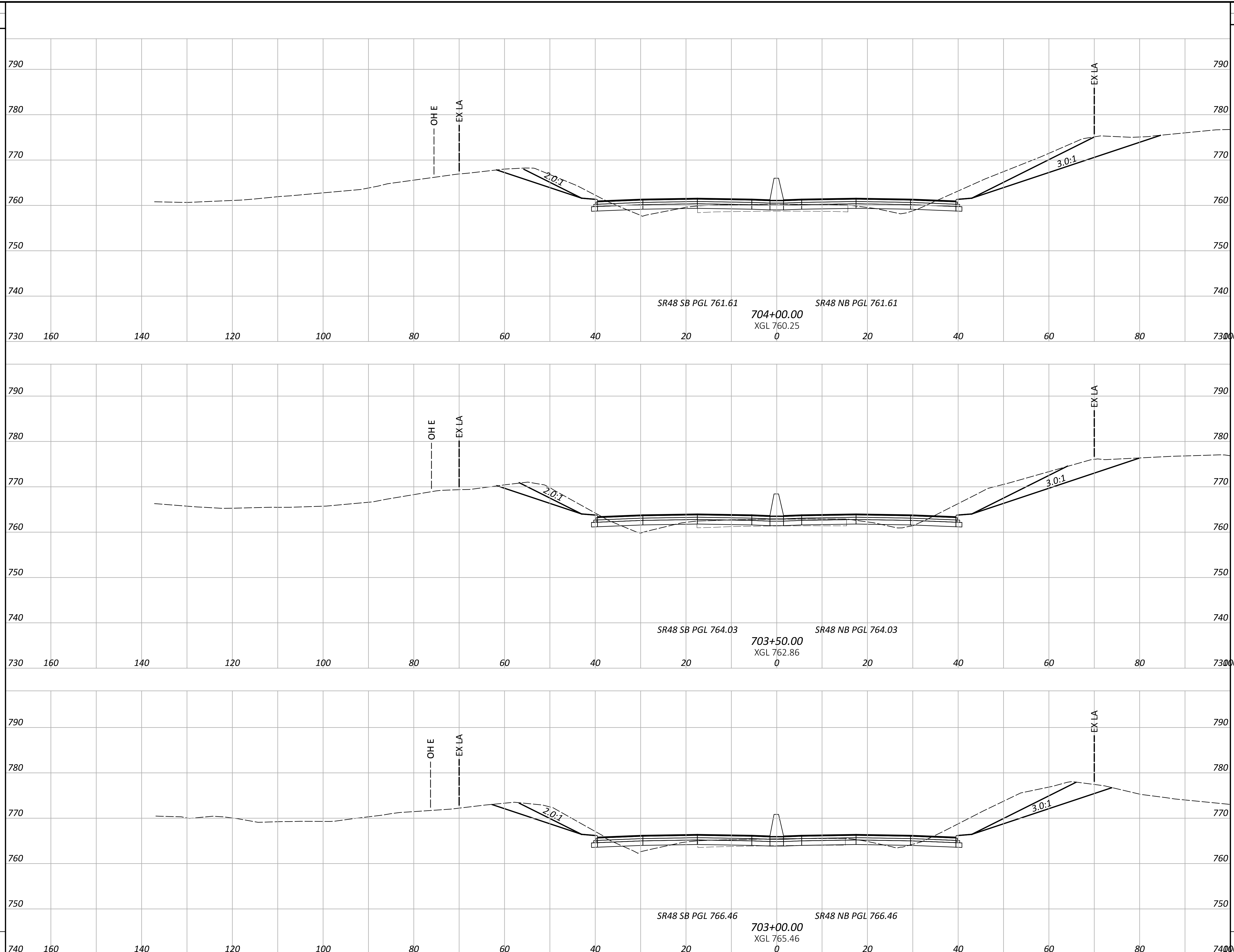
REVIEWER

DSS 04-17-26

PROJECT ID

SHEET TOTAL
P.16 P.51

SEEDING	
END WIDTH	SQ. YDS.



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
704+00.00	0	0	0	0
703+50.00	0	0	0	0
703+00.00	0	0	0	0
SHEET TOTALS	0	0	0	0

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY



DESIGNER
MAS

REVIEWER
DSS 04-17-26

PROJECT ID

SEEDING
END SQ.
WIDTH WIDTH YDS.

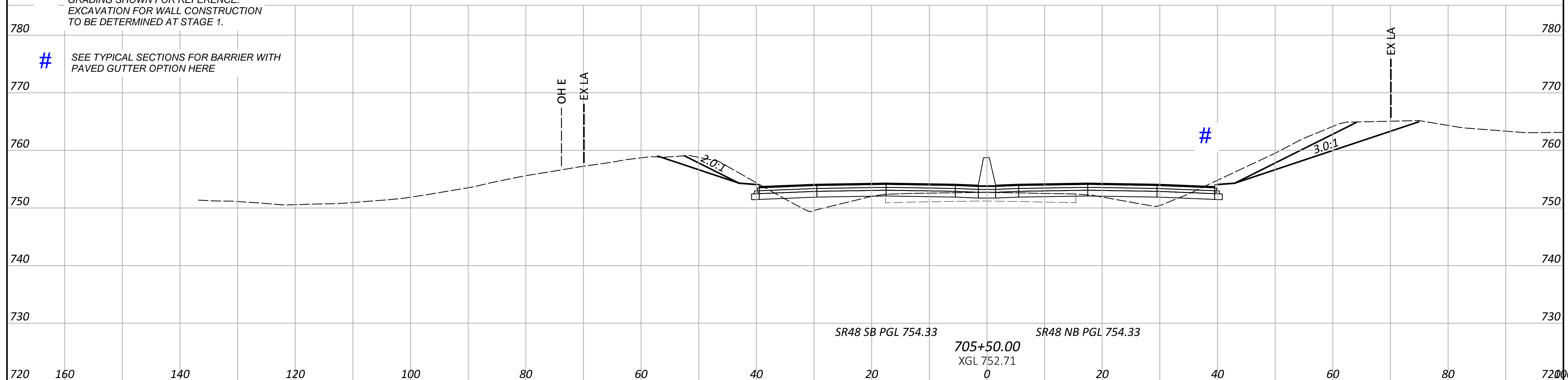
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GRADING SHOWN FOR REFERENCE.
EXCAVATION FOR WALL CONSTRUCTION
TO BE DETERMINED AT STAGE 1.

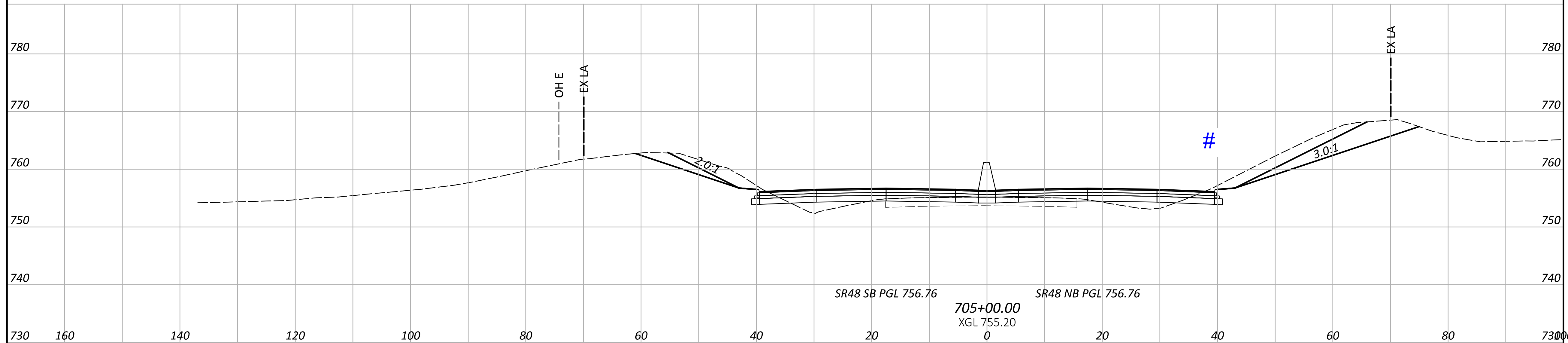
SEE TYPICAL SECTIONS FOR BARRIER WITH
PAVED GUTTER OPTION HERE

END AREA
CUT FILL

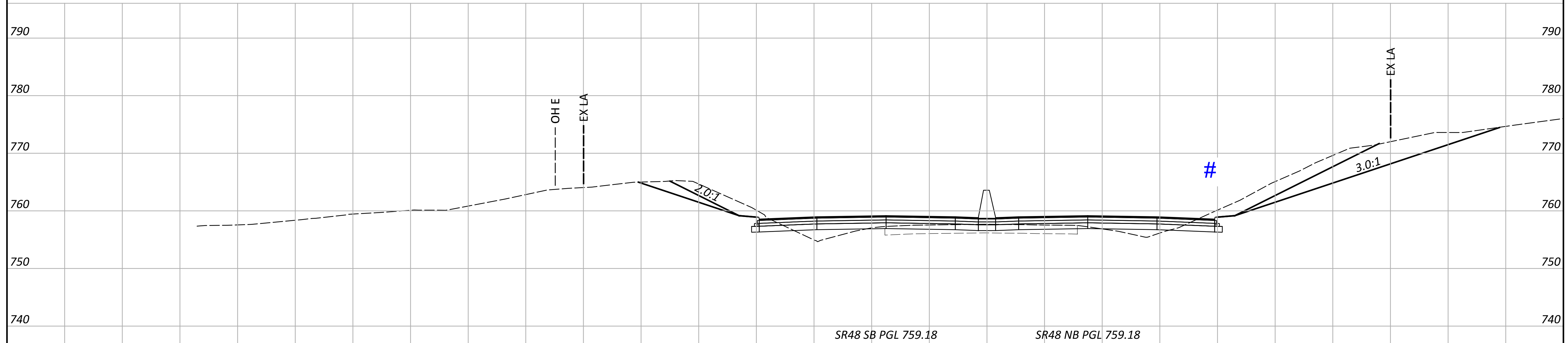
VOLUME
CUT FILL



0 0
0 0
0 0
0 0



0 0
0 0
0 0



0 0
0 0

SHEET TOTAL

SHEET TOTALS

CTY-RTE-SECTION

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PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY



DESIGNER

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REVIEWER

DSS 04-17-26

PROJECT ID

SHEET TOTAL
P.19 P.51

CTY-RTE-SECTION

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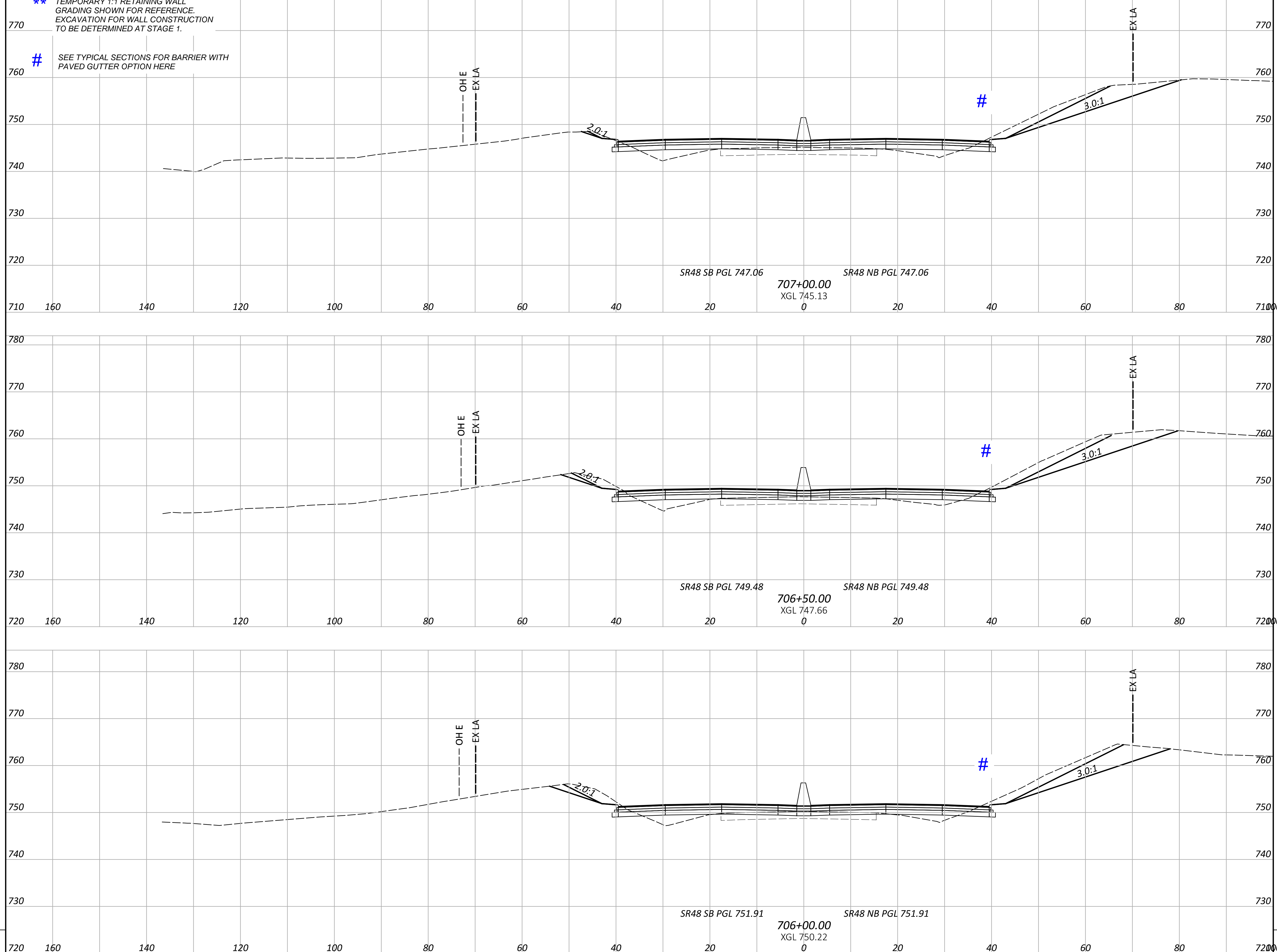
SEEDING	
END WIDTH	SQ. YDS.

STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
770	0	0		
760	0	0		
750				
740				
730	0	0	0	0
720				
710	0	0		
780				
770	0	0		
760				
750				
740				
730	0	0	0	0
720				
780				
770	0	0		
760				
750				
740				
730	0	0	0	0
720				
780				
770	0	0		
760				
750				
740				
730	0	0	0	0
720				
SHEET TOTAL	0	0	0	0

LEGEND:

****** TEMPORARY 1:1 RETAINING WALL GRADING SHOWN FOR REFERENCE. EXCAVATION FOR WALL CONSTRUCTION TO BE DETERMINED AT STAGE 1.

SEE TYPICAL SECTIONS FOR BARRIER WITH PAVED GUTTER OPTION HERE



PRELIMINARY CROSS SECTIONS
SR-48

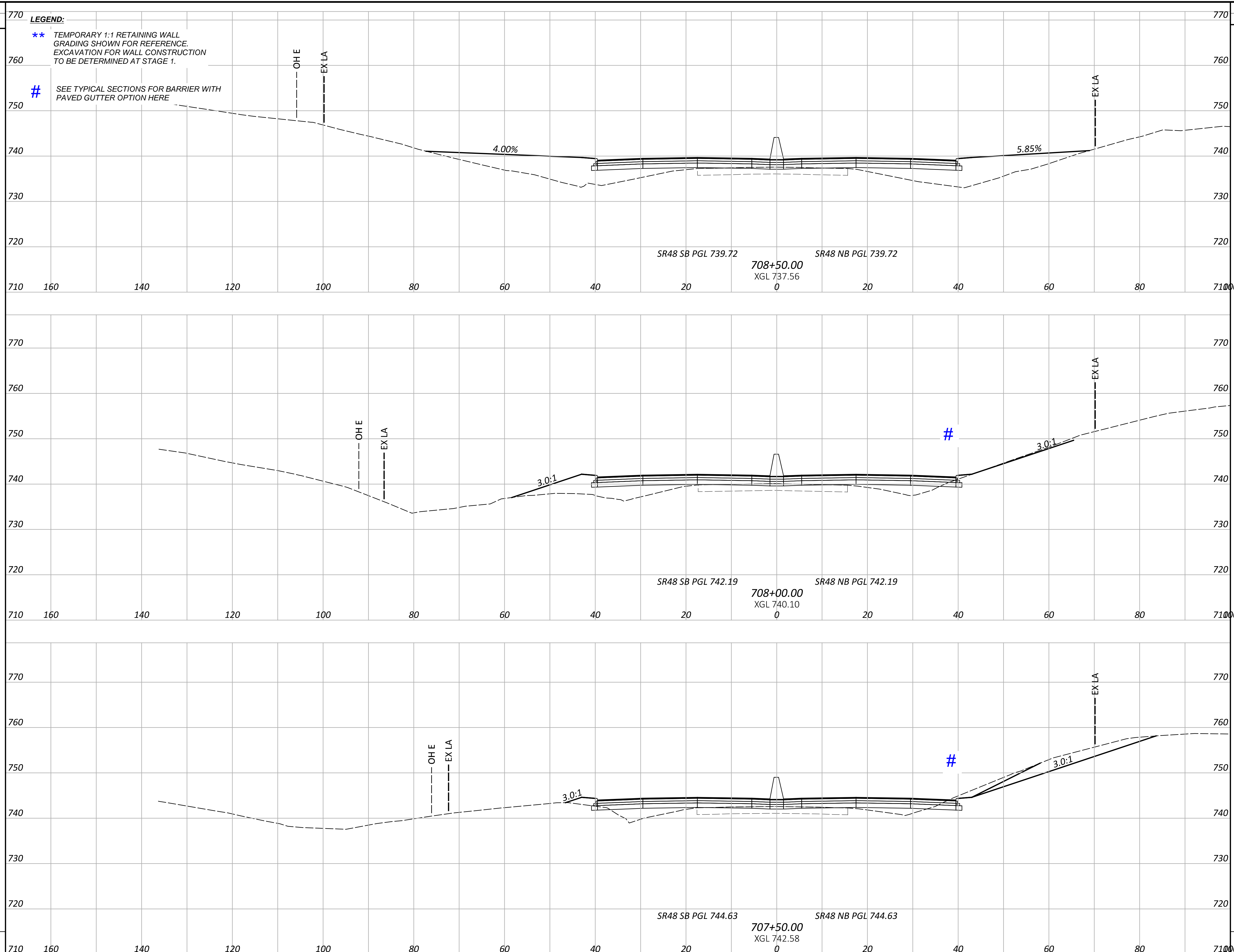
DESIGN AGENCY

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burgessniple.com

DESIGNER
MAS
REVIEWER
DSS 04-17-26
PROJECT ID

SHEET TOTAL
P.20 P.51

SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
770	0	0	0	0
760	0	0	0	0
750	0	0	0	0
740	0	0	0	0
730	0	0	0	0
720	0	0	0	0
710	0	0	0	0
SHEET TOTAL	0	0	0	0



PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY
B&N
 burgessniple.com

DESIGNER
 MAS

REVIEWER
 DSS 04-17-26

PROJECT ID

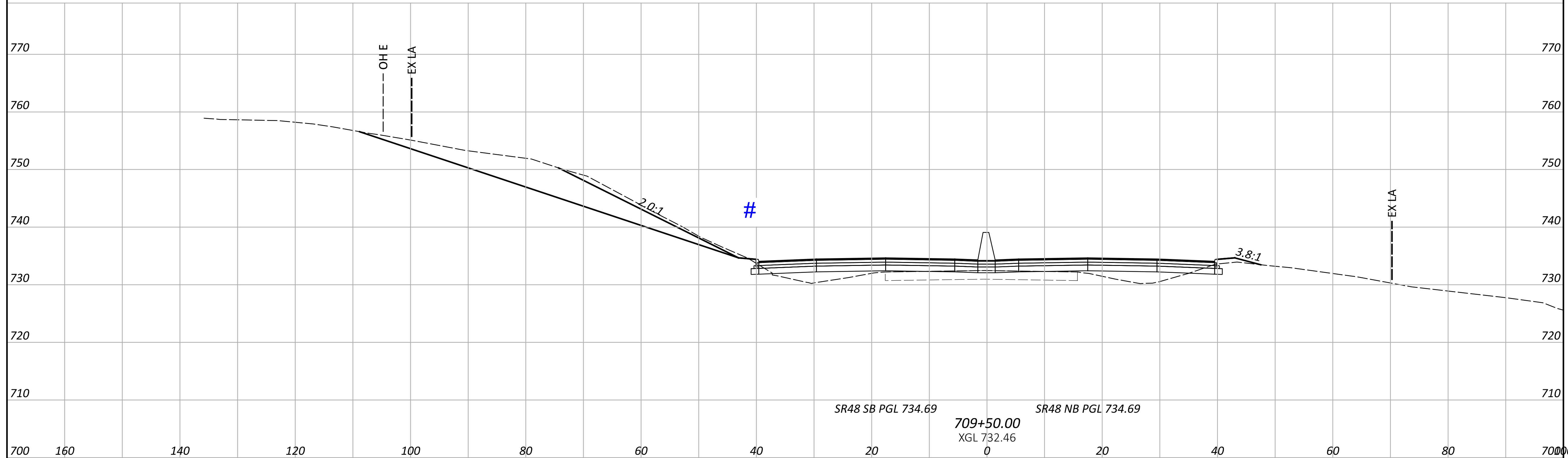
SHEET TOTAL
 P.21 P.51

SEEDING
 END SQ.
 WIDTH YDS.

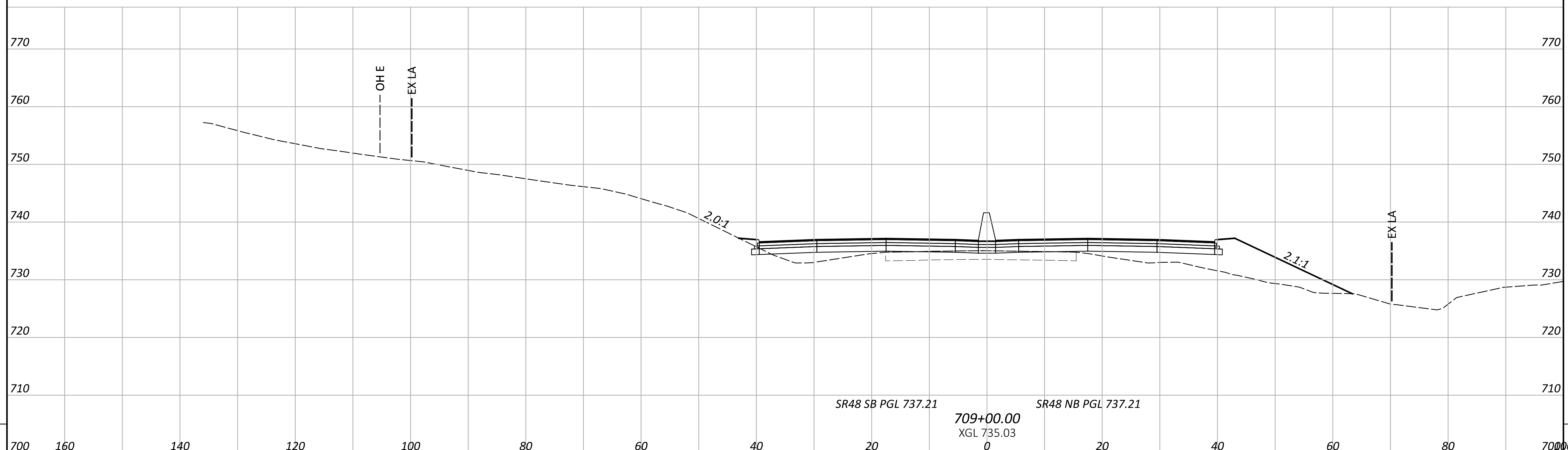
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- ** TEMPORARY 1:1 RETAINING WALL
 GRADING SHOWN FOR REFERENCE.
 EXCAVATION FOR WALL CONSTRUCTION
 TO BE DETERMINED AT STAGE 1.
- # SEE TYPICAL SECTIONS FOR BARRIER WITH
 PAVED GUTTER OPTION HERE

END AREA VOLUME
 CUT FILL CUT FILL



END AREA	VOLUME
CUT	FILL
0	0
0	0



END AREA	VOLUME
CUT	FILL
0	0
0	0

SHEET TOTAL

SHEET TOTAL
 P.22 P.51

PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY



DESIGNER
 MAS

REVIEWER
 DSS

04-17-26

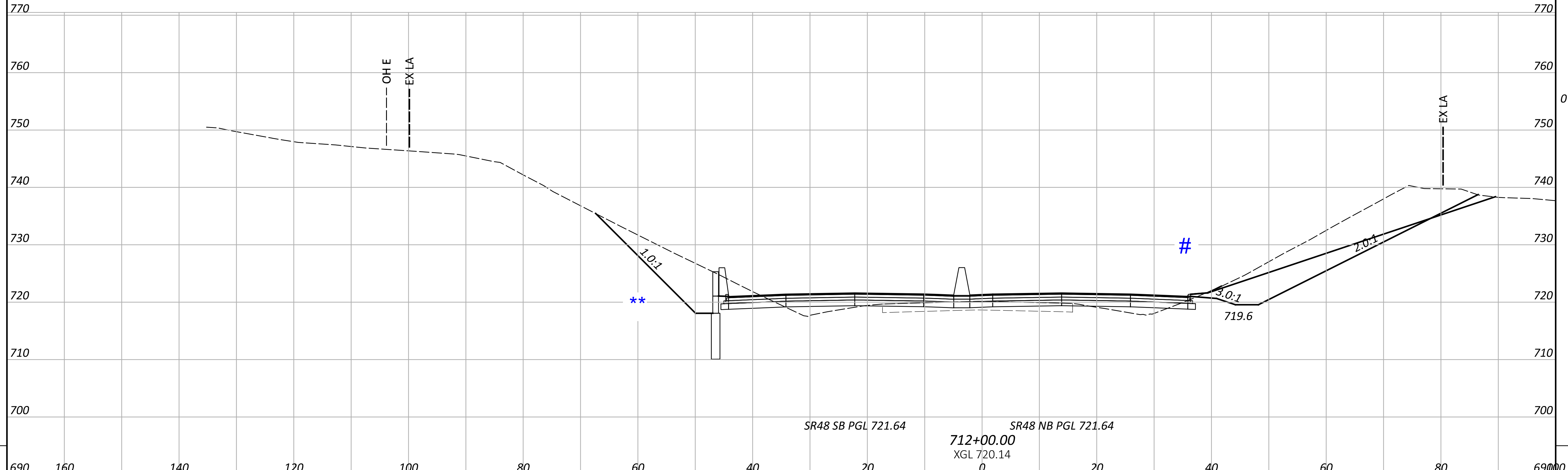
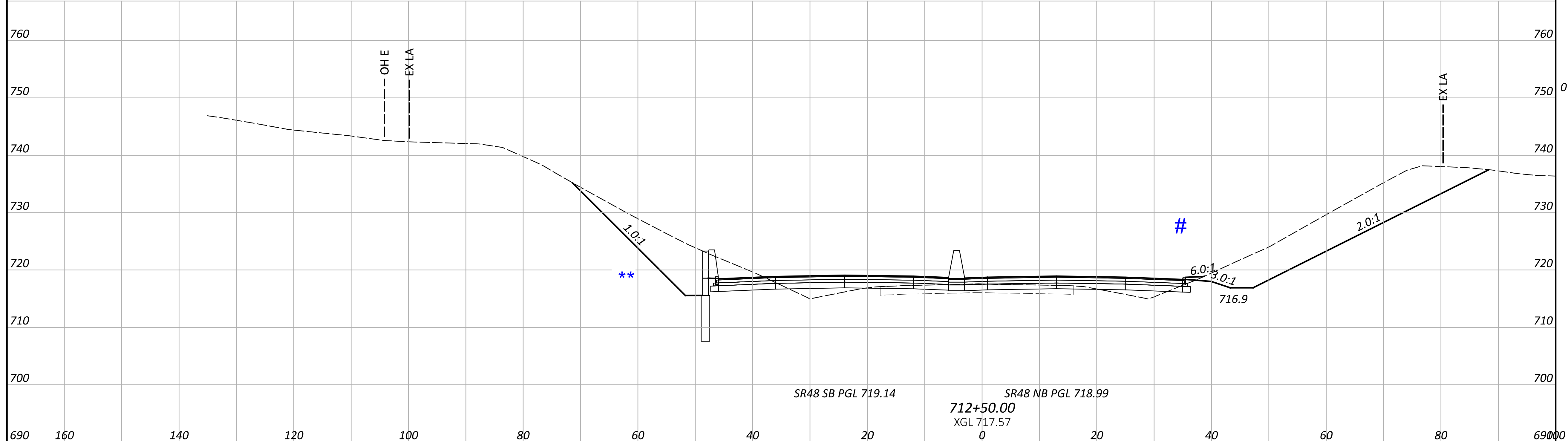
PROJECT ID

SEEDING

END WIDTH	SQ. YDS.
690	160
140	120
100	80
60	40
0	0
40	20
60	40
80	60
100	80
140	120
160	160

LEGEND:

- ** TEMPORARY 1:1 RETAINING WALL GRADING SHOWN FOR REFERENCE. EXCAVATION FOR WALL CONSTRUCTION TO BE DETERMINED AT STAGE 1.
- # SEE TYPICAL SECTIONS FOR BARRIER WITH PAVED GUTTER OPTION HERE



END AREA	VOLUME				
		CUT	FILL	CUT	FILL
		0	0	0	0
		0	0	0	0
		0	0	0	0
		0	0	0	0
SHEET TOTALS		0	0	0	0

PRELIMINARY CROSS SECTIONS
SR-48

CTY-RTE-SECTION

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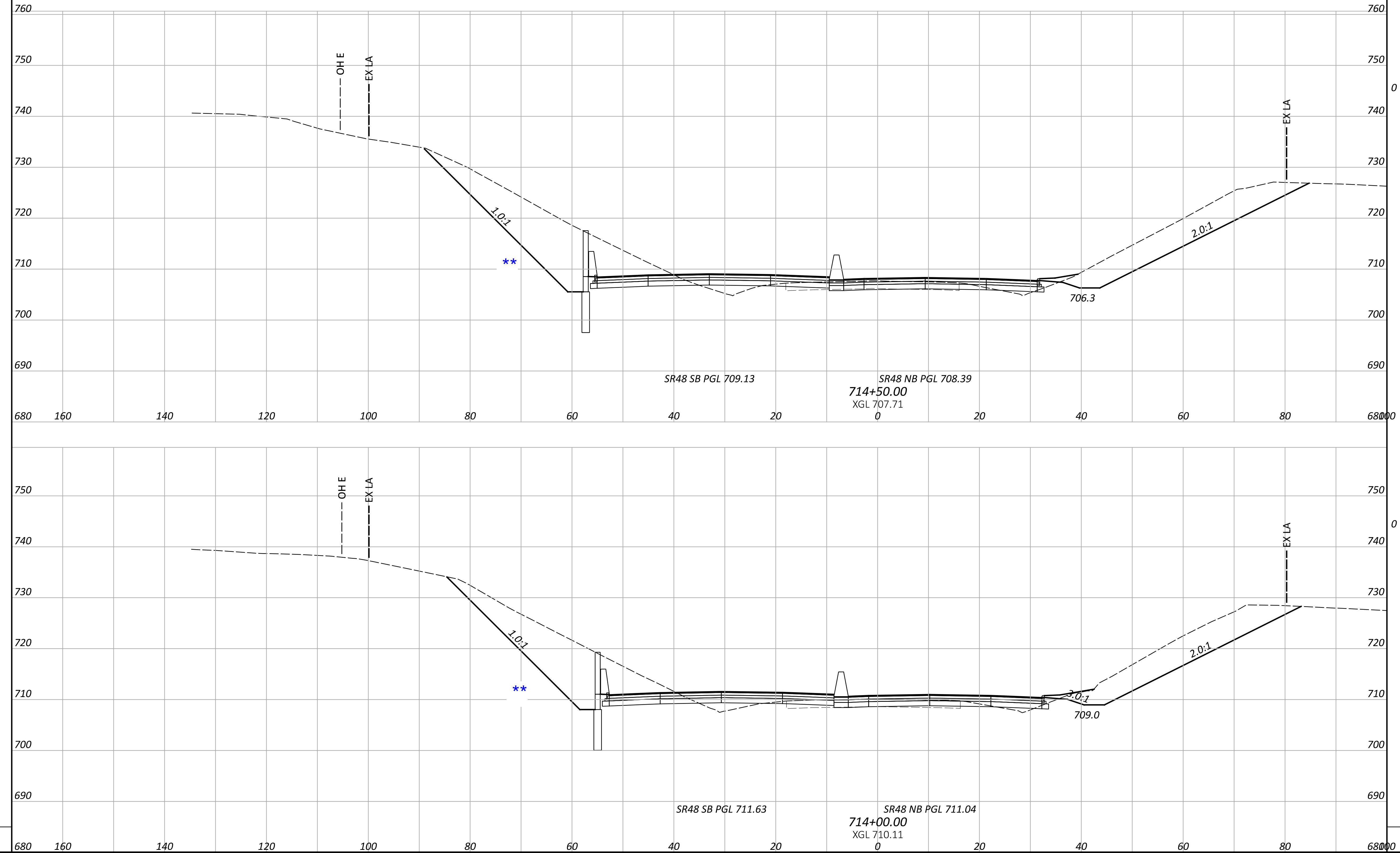
SEEDING

END WIDTH	SQ. YDS.
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LEGEND:

****** TEMPORARY 1:1 RETAINING WALL GRADING SHOWN FOR REFERENCE. EXCAVATION FOR WALL CONSTRUCTION TO BE DETERMINED AT STAGE 1.

SEE TYPICAL SECTIONS FOR BARRIER WITH PAVED GUTTER OPTION HERE



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		0	0
		0	0
		0	0
SHEET TOTALS			

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY



DESIGNER

MAS

REVIEWER

DSS 04-17-26

PROJECT ID

SHEET TOTAL

P.27 | P.51

WAR-SR48-7.50

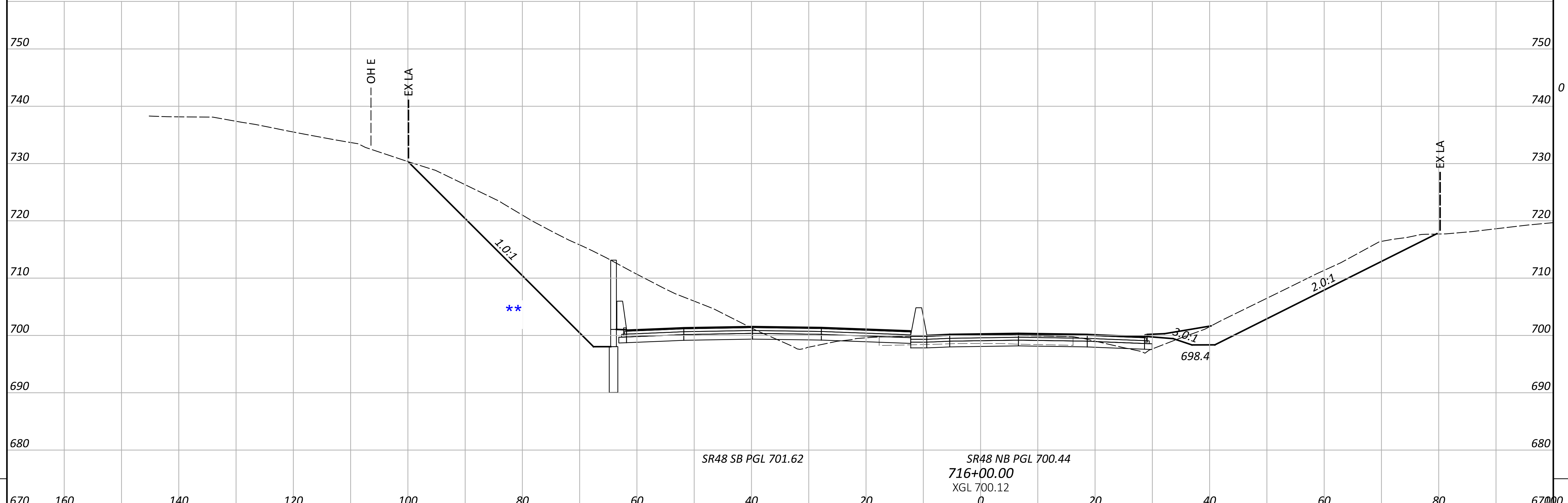
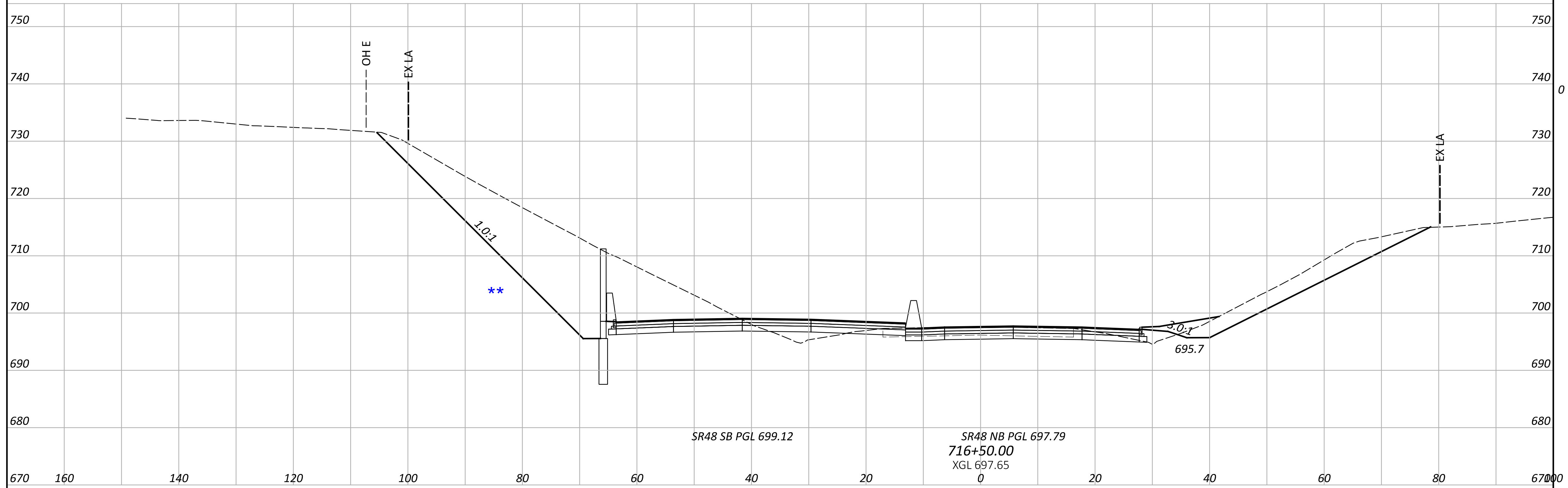
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SEEDING
 END SQ.
 WIDTH YDS.

LEGEND:

- ** TEMPORARY 1:1 RETAINING WALL GRADING SHOWN FOR REFERENCE. EXCAVATION FOR WALL CONSTRUCTION TO BE DETERMINED AT STAGE 1.

- # SEE TYPICAL SECTIONS FOR BARRIER WITH PAVED GUTTER OPTION HERE

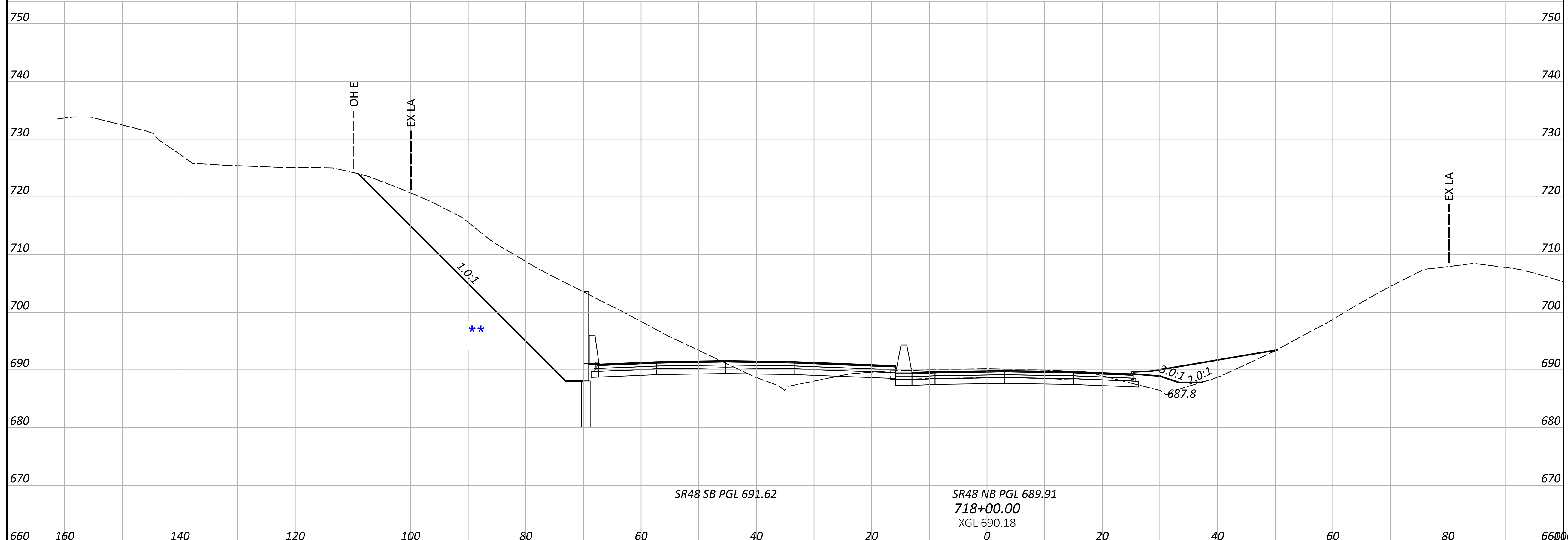
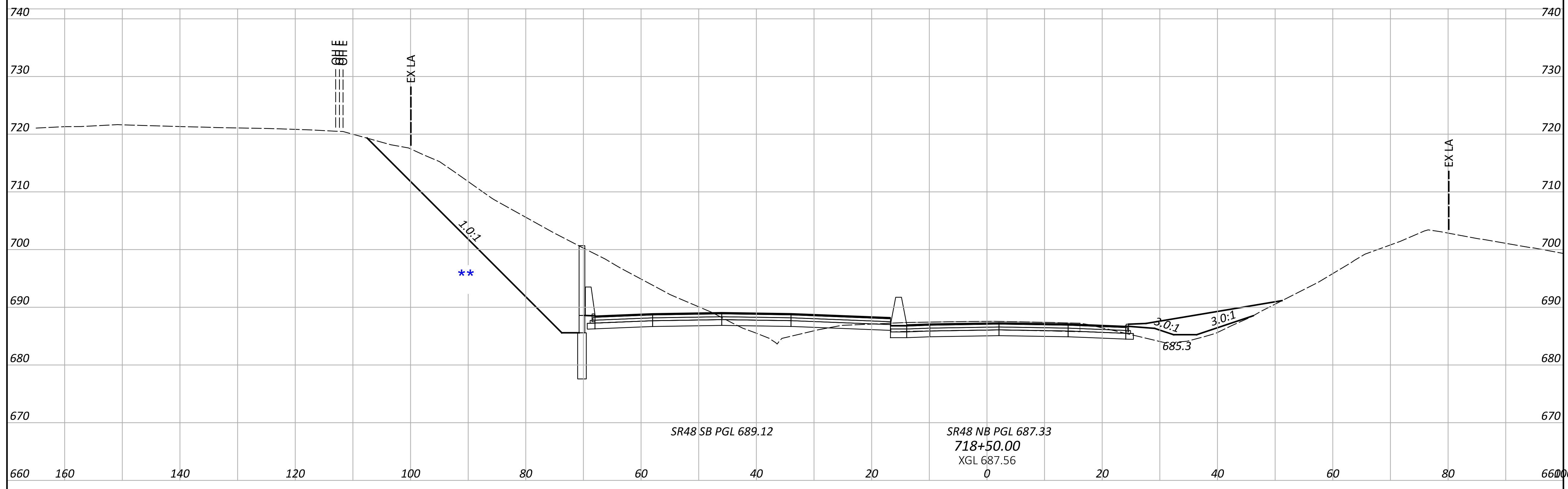


	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
750				
740	0	0		
730				
720				
710				
700				
690				
680			0	0
670				
SHEET TOTALS				

PRELIMINARY CROSS SECTIONS
 SR-48

SEEDING	
END WIDTH	SQ. YDS.

LEGEND:
****** TEMPORARY 1:1 RETAINING WALL GRADING SHOWN FOR REFERENCE. EXCAVATION FOR WALL CONSTRUCTION TO BE DETERMINED AT STAGE 1.
SEE TYPICAL SECTIONS FOR BARRIER WITH PAVED GUTTER OPTION HERE



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
660	0	0	0	0
680	0	0	0	0
SHEET TOTALS	0	0	0	0

PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY
B&N
 burgessniple.com

DESIGNER
 MAS

REVIEWER
 DSS 04-17-26

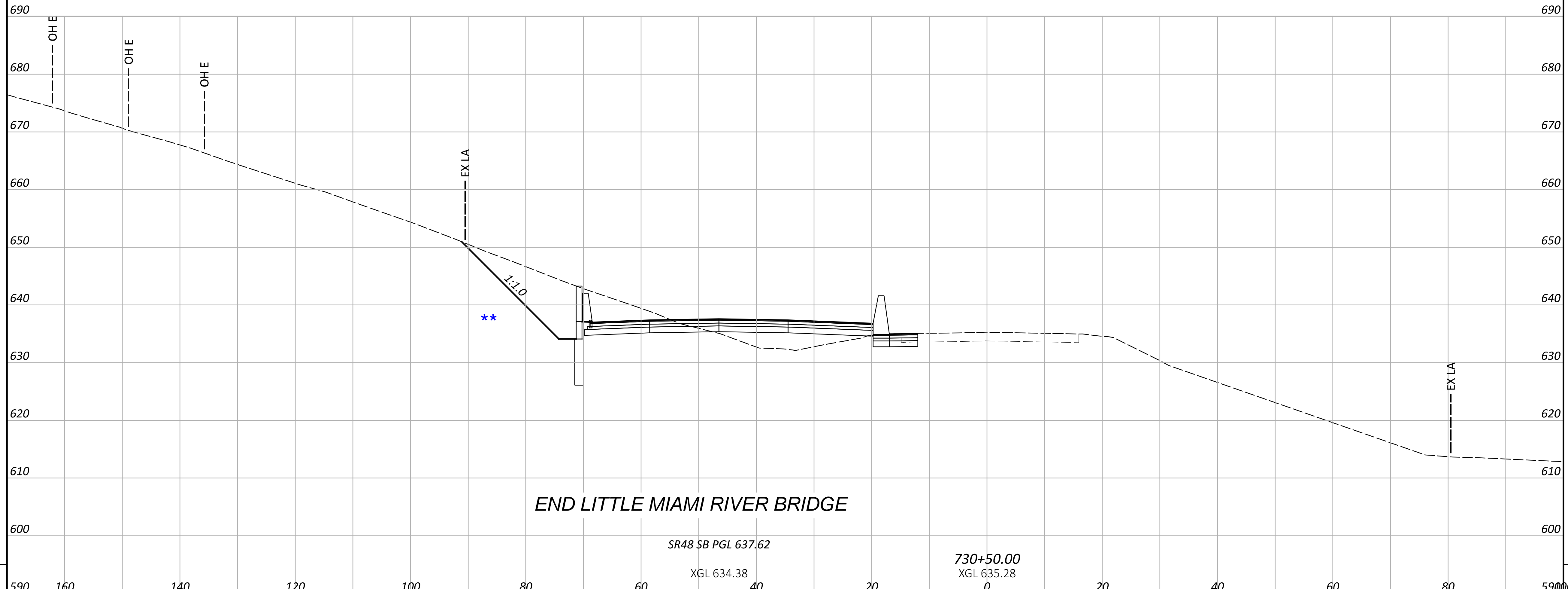
PROJECT ID

SHEET TOTAL
 P.31 | P.51

SEEDING	
END WIDTH	SQ. YDS.
590	160
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
590	160
SHEET TOTAL	

LEGEND:

- ** TEMPORARY 1:1 RETAINING WALL
 GRADING SHOWN FOR REFERENCE.
 EXCAVATION FOR WALL CONSTRUCTION
 TO BE DETERMINED AT STAGE 1.
- # SEE TYPICAL SECTIONS FOR BARRIER WITH
 PAVED GUTTER OPTION HERE



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
SHEET TOTALS		0	0

PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY
B&N
 burgessniple.com

DESIGNER
 MAS

REVIEWER
 DSS 04-17-26

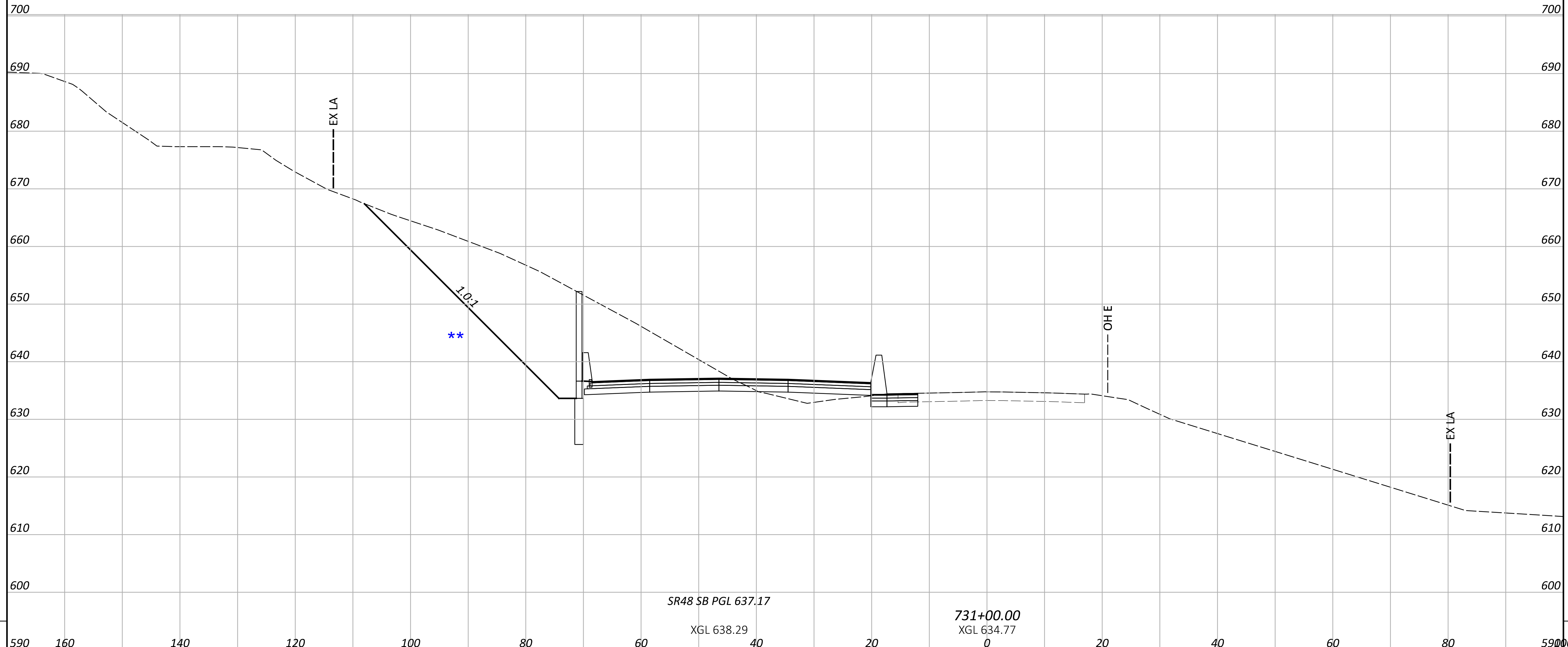
PROJECT ID

SHEET TOTAL
 P.33 | P.51

SEEDING	
END WIDTH	SQ. YDS.
590	160
140	120
100	80
60	40
20	0
20	40
60	80
80	120
140	160
590	0

LEGEND:

- ** TEMPORARY 1:1 RETAINING WALL
 GRADING SHOWN FOR REFERENCE.
 EXCAVATION FOR WALL CONSTRUCTION
 TO BE DETERMINED AT STAGE 1.
- # SEE TYPICAL SECTIONS FOR BARRIER WITH
 PAVED GUTTER OPTION HERE



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
SHEET TOTALS		0	0

SR48 SB PGL 637.17

731+00.00
 XGL 634.77

XGL 638.29

PRELIMINARY CROSS SECTIONS
 SR-48

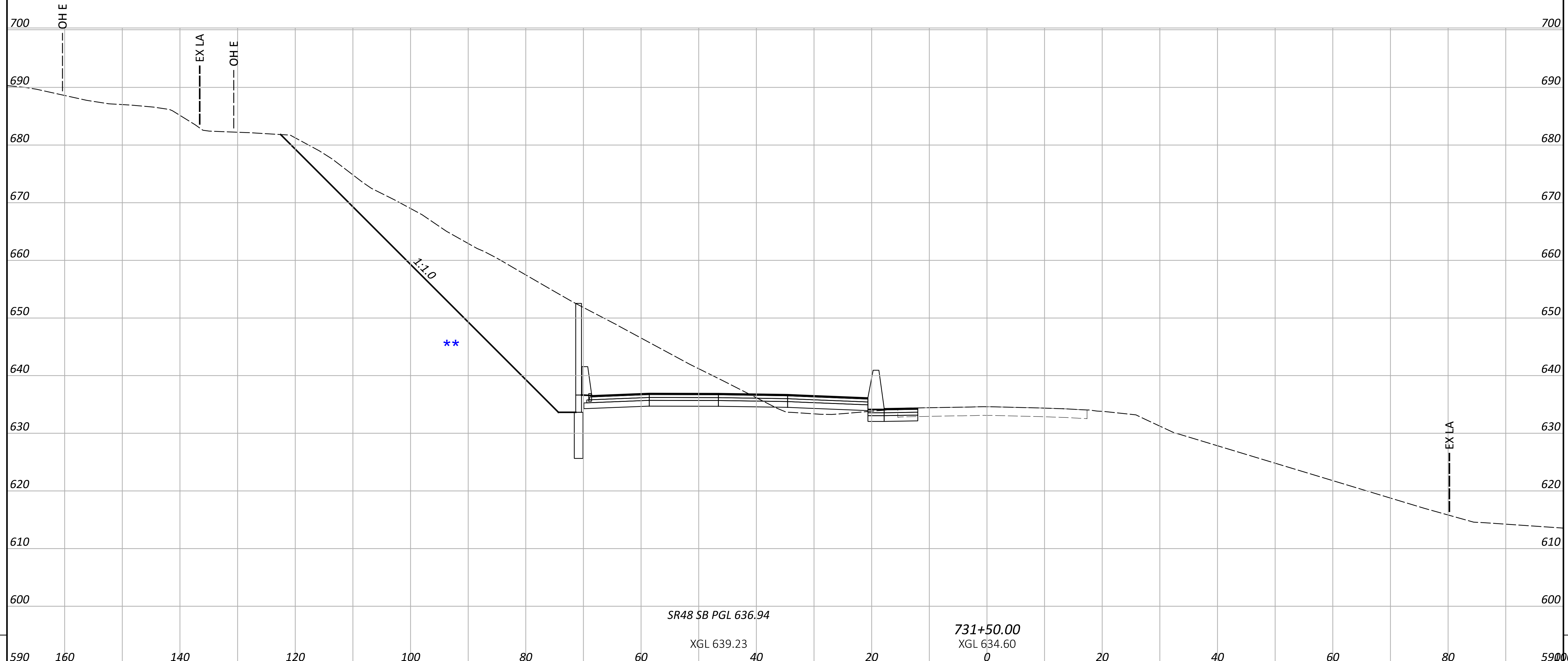
DESIGN AGENCY
B&N
 burgessniple.com

DESIGNER
 MAS
 REVIEWER
 DSS 04-17-26
 PROJECT ID

SEEDING	
END WIDTH	SQ. YDS.
590	160
140	120
100	80
60	40
20	0
20	40
60	80
590	160

LEGEND:

- ** TEMPORARY 1:1 RETAINING WALL
 GRADING SHOWN FOR REFERENCE.
 EXCAVATION FOR WALL CONSTRUCTION
 TO BE DETERMINED AT STAGE 1.
- # SEE TYPICAL SECTIONS FOR BARRIER WITH
 PAVED GUTTER OPTION HERE



SR48 SB PGL 636.94

731+50.00
 XGL 634.60

XGL 639.23

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
590	160	590	160
140	120	140	120
100	80	100	80
60	40	60	40
20	0	20	0
20	40	20	40
60	80	60	80
590	160	590	160
SHEET TOTALS		0	0

PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY



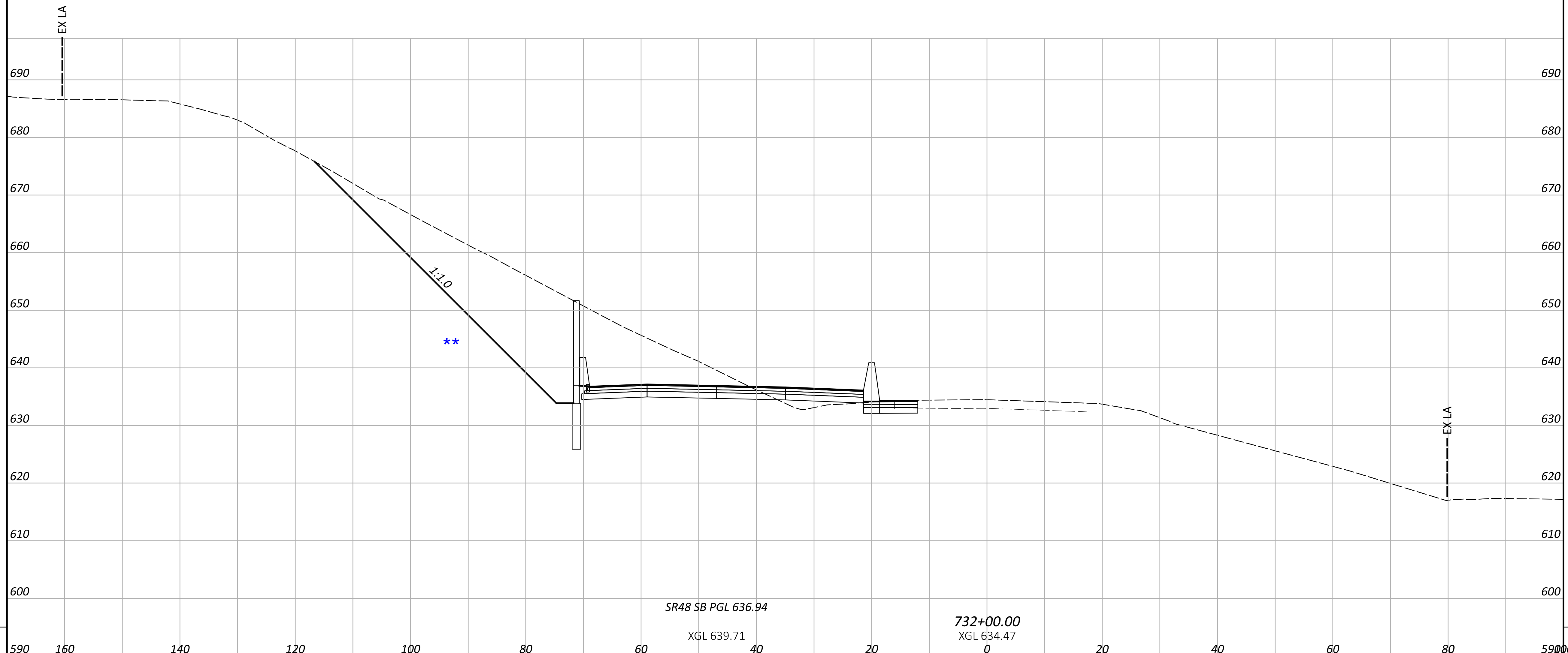
DESIGNER
 MAS
 REVIEWER
 DSS 04-17-26
 PROJECT ID

SHEET TOTAL
 P.35 P.51

SEEDING	
END WIDTH	SQ. YDS.
590	160
140	120
100	80
60	40
20	0
20	40
60	80
590	160
SHEET TOTAL	

LEGEND:

- ** TEMPORARY 1:1 RETAINING WALL
 GRADING SHOWN FOR REFERENCE.
 EXCAVATION FOR WALL CONSTRUCTION
 TO BE DETERMINED AT STAGE 1.
- # SEE TYPICAL SECTIONS FOR BARRIER WITH
 PAVED GUTTER OPTION HERE



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
SHEET TOTALS		0	0

PRELIMINARY CROSS SECTIONS
 SR-48

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 MAS

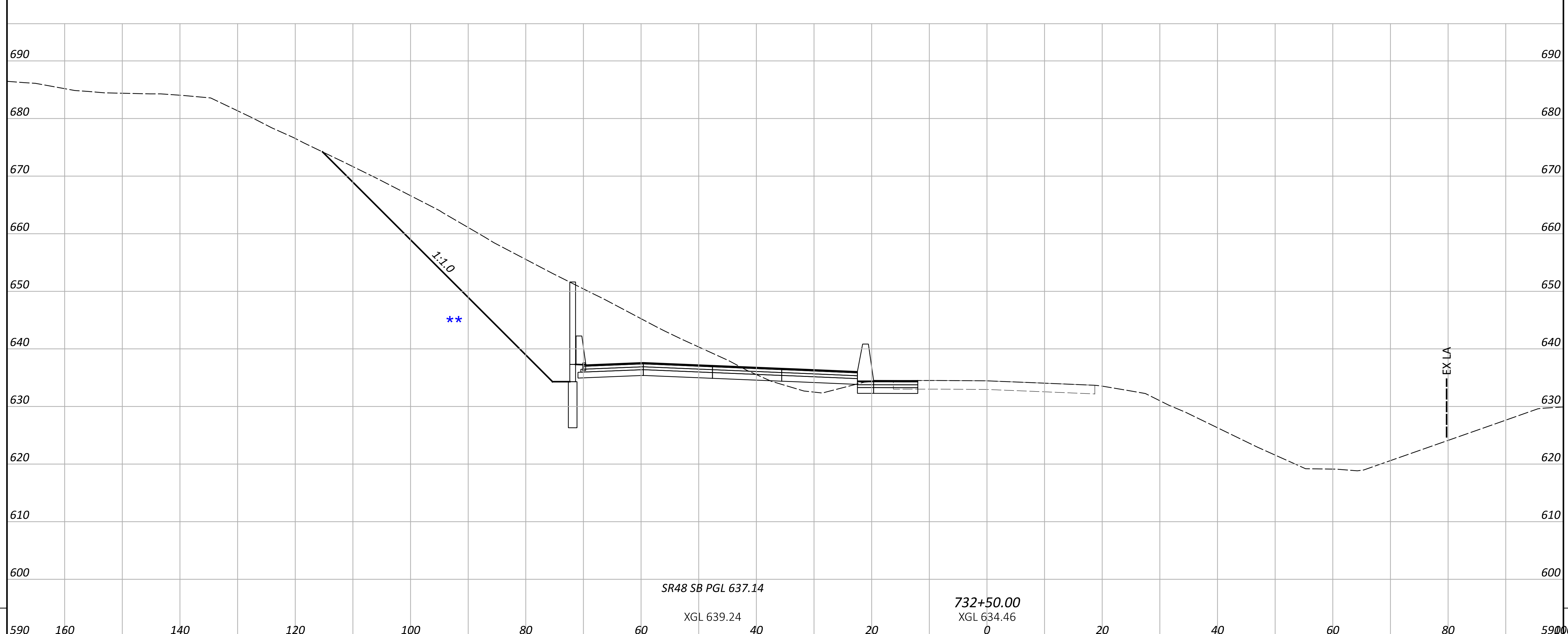
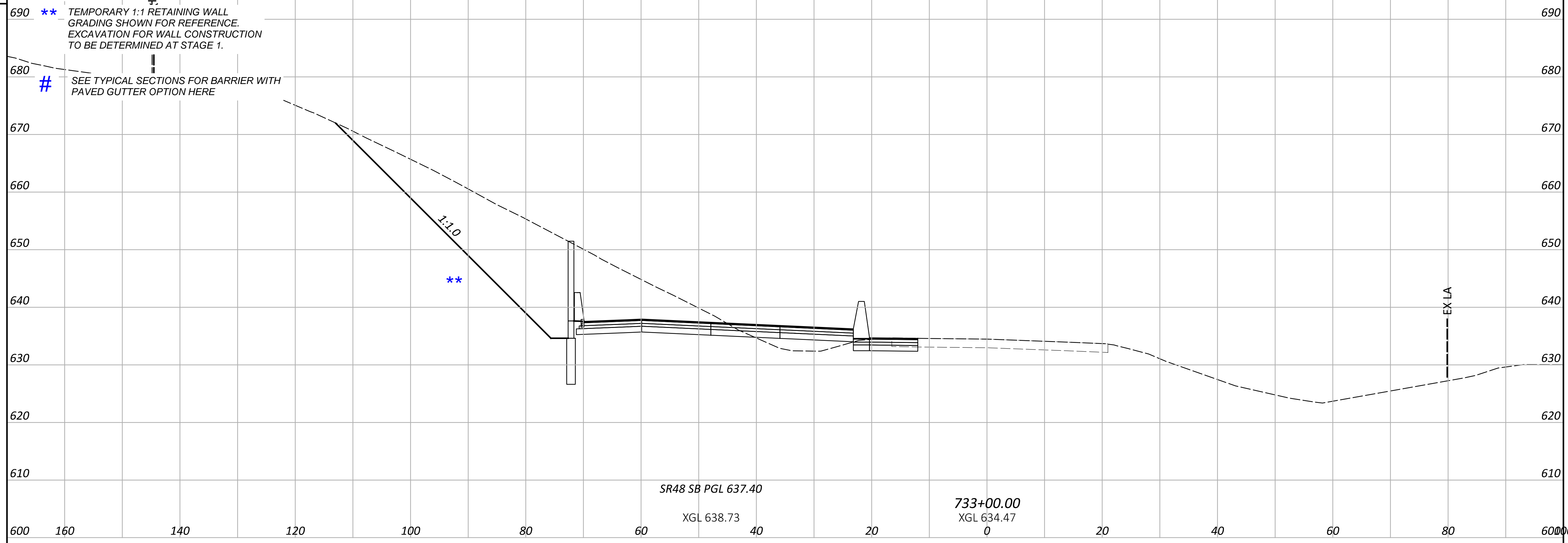
REVIEWER
 DSS 04-17-26

PROJECT ID

SHEET TOTAL
 P.36 | P.51

SEEDING	
END WIDTH	SQ. YDS.

STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
690				
680	0	0		
670				
660				
650				
640				
630				
620				
610			0	0
600				
690				
680	0	0		
670				
660				
650				
640				
630				
620				
610				
600			0	0
SHEET TOTALS				

PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY



DESIGNER
 MAS

REVIEWER
 DSS 04-17-26

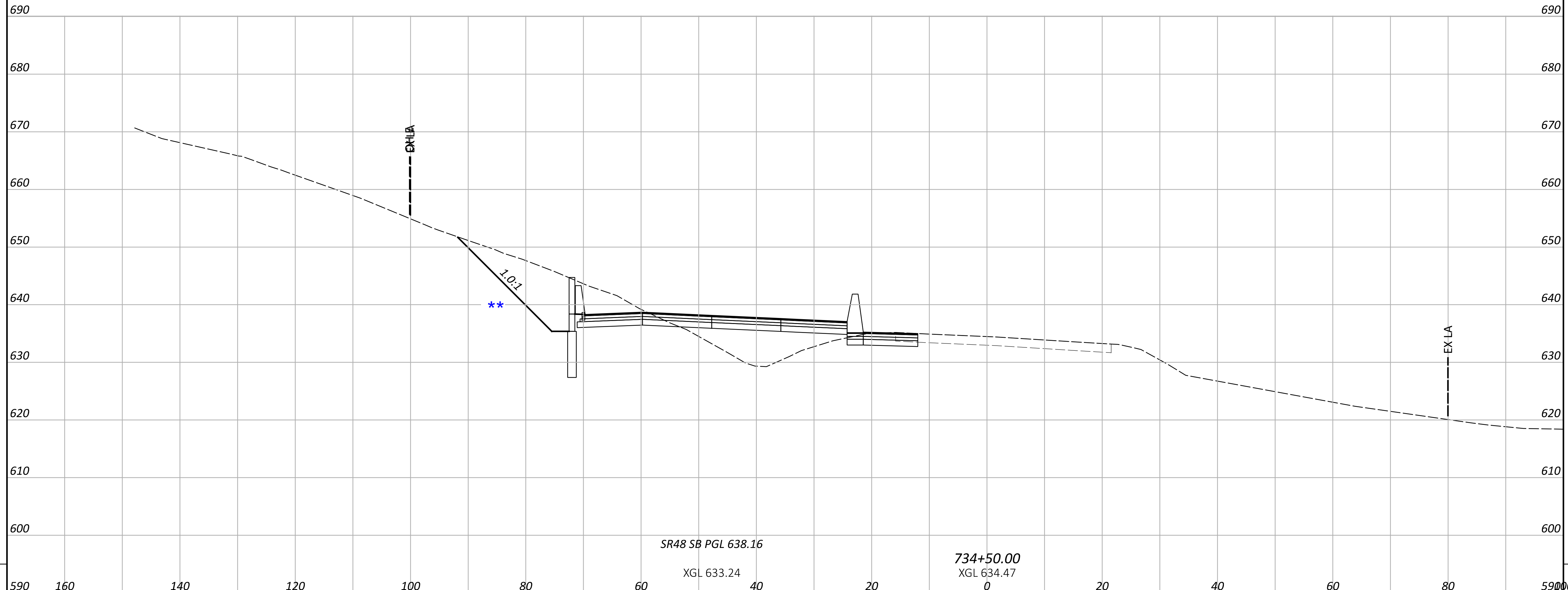
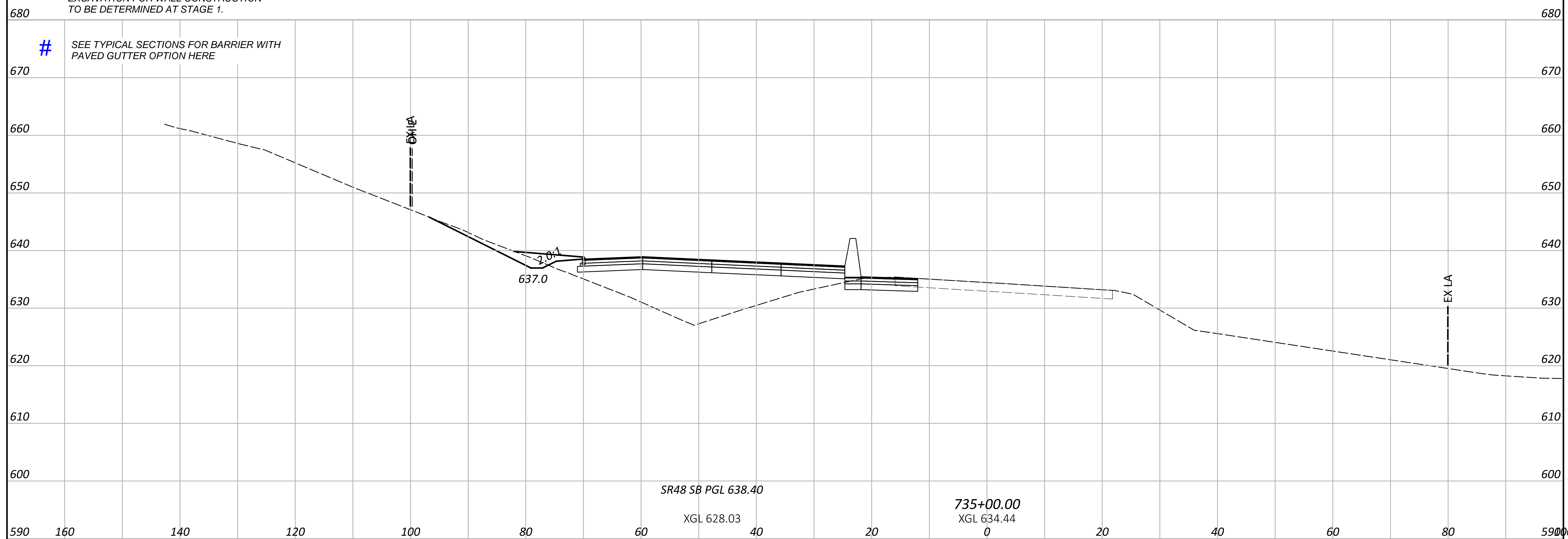
PROJECT ID

SHEET	TOTAL
P.37	P.51

SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
END WIDTH				
SQ. YDS.				
	590	160	140	120
	100	80	60	40
	20	0	20	40
	60	80	590	0
	690	0	680	0
	670	0	660	0
	650	0	640	0
	630	0	620	0
	610	0	600	0
	590	0	590	0
SHEET TOTAL	590	160	140	120
	100	80	60	40
	20	0	20	40
	60	80	590	0
	690	0	680	0
	670	0	660	0
	650	0	640	0
	630	0	620	0
	610	0	600	0
	590	0	590	0
SHEET TOTAL	590	160	140	120

LEGEND:
****** TEMPORARY 1:1 RETAINING WALL
 GRADING SHOWN FOR REFERENCE.
 EXCAVATION FOR WALL CONSTRUCTION
 TO BE DETERMINED AT STAGE 1.

SEE TYPICAL SECTIONS FOR BARRIER WITH
 PAVED GUTTER OPTION HERE



PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY



DESIGNER
 MAS

REVIEWER
 DSS 04-17-26

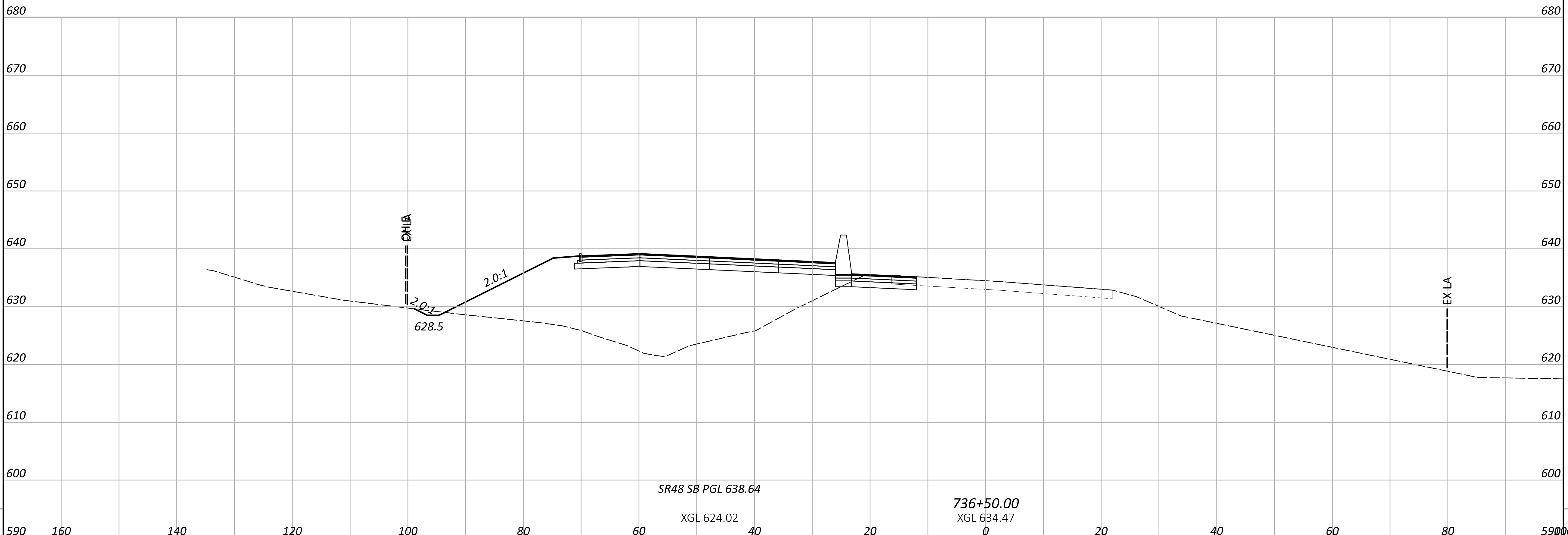
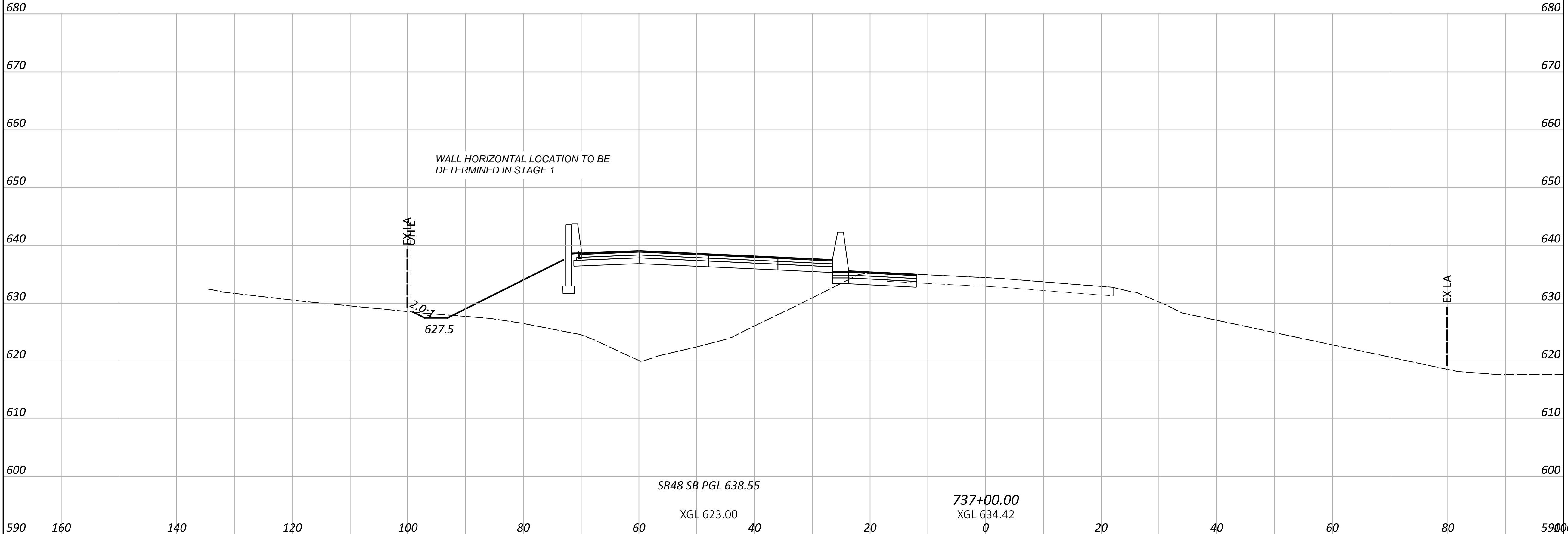
PROJECT ID

SEEDING
 END SQ.
 WIDTH YDS.

LEGEND:

** TEMPORARY 1:1 RETAINING WALL
 GRADING SHOWN FOR REFERENCE.
 EXCAVATION FOR WALL CONSTRUCTION
 TO BE DETERMINED AT STAGE 1.

SEE TYPICAL SECTIONS FOR BARRIER WITH
 PAVED GUTTER OPTION HERE



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
737+00.00	0	0	0	0
736+50.00	0	0	0	0
SHEET TOTALS				

PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY



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 MAS
 REVIEWER
 DSS 04-17-26
 PROJECT ID

SEEDING	
END WIDTH	SQ. YDS.

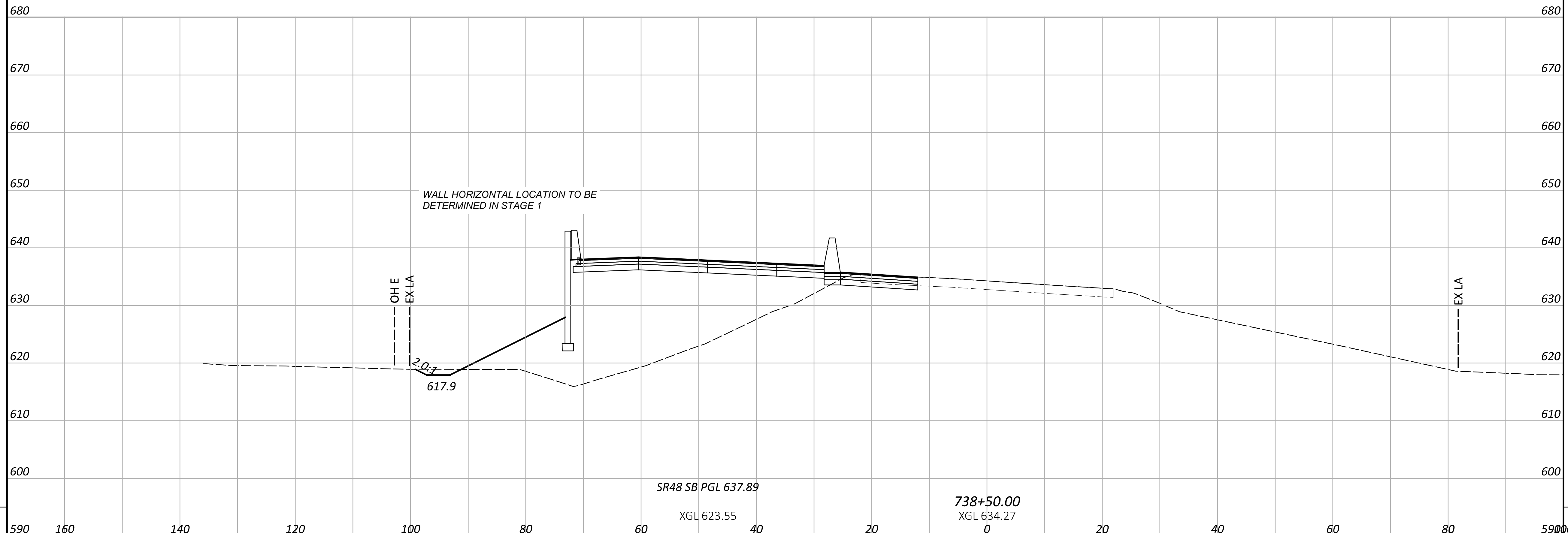
LEGEND:

****** TEMPORARY 1:1 RETAINING WALL
GRADING SHOWN FOR REFERENCE.
EXCAVATION FOR WALL CONSTRUCTION
TO BE DETERMINED AT STAGE 1.

SEE TYPICAL SECTIONS FOR BARRIER WITH
PAVED GUTTER OPTION HERE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

BEGIN TURTLE CREEK BRIDGE



680	680		
670	670	0	0
660	660		
650	650		
640	640		
630	630		
620	620		
610	610		
600	600	0	0
SHEET TOTALS			

DESIGN AGENCY



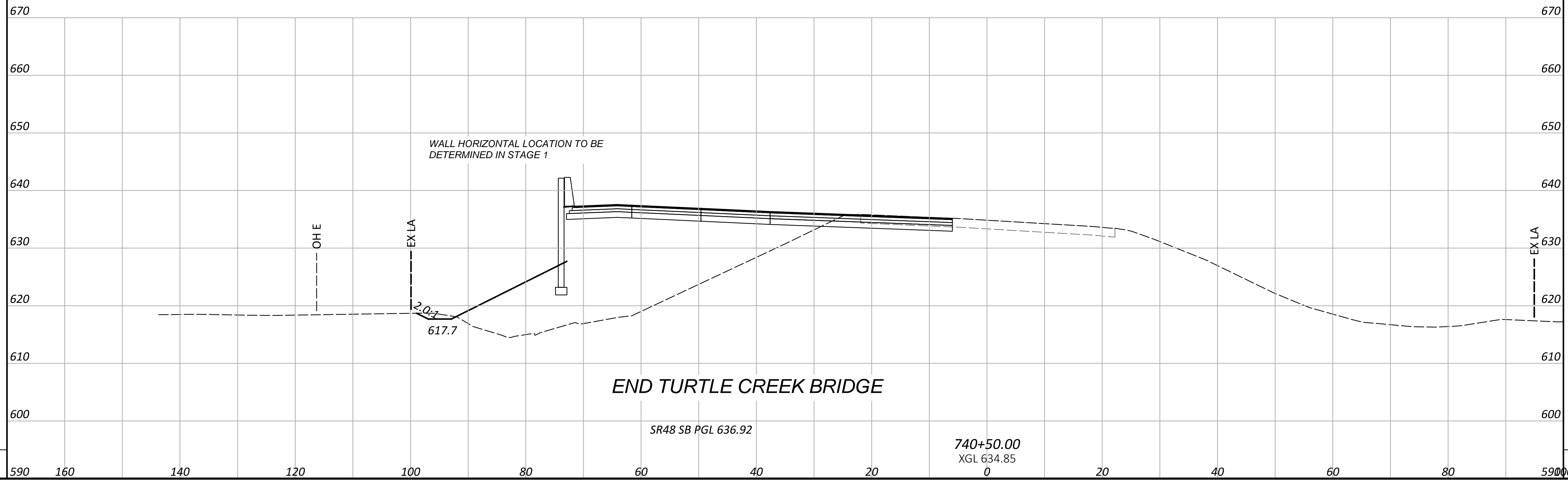
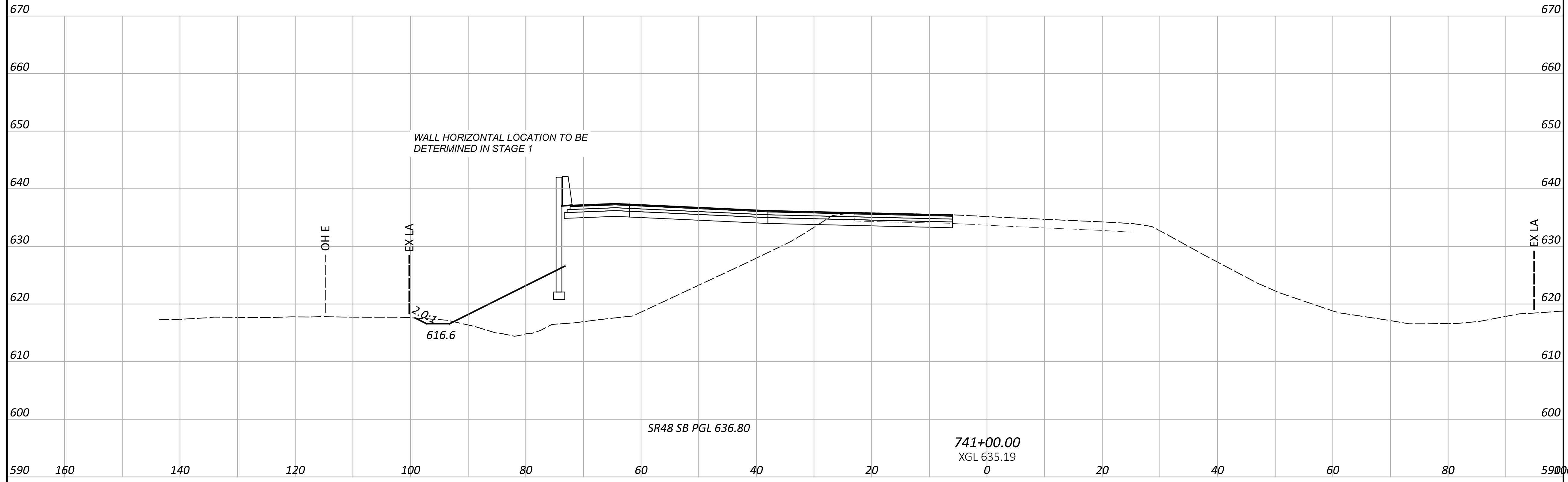
DESIGNER
MAS
REVIEWER
DSS 04-17-26
PROJECT ID

SEEDING
END SQ.
WIDTH WIDTH YDS.

- LEGEND:**
- ** TEMPORARY 1:1 RETAINING WALL GRADING SHOWN FOR REFERENCE. EXCAVATION FOR WALL CONSTRUCTION TO BE DETERMINED AT STAGE 1.
 - # SEE TYPICAL SECTIONS FOR BARRIER WITH PAVED GUTTER OPTION HERE

END AREA
CUT FILL

VOLUME
CUT FILL



0 0
0 0
0 0

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY
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MAS

REVIEWER
DSS 04-17-26

PROJECT ID
0

SHEET TOTAL
P.44 P.51

SHEET TOTAL		SHEET TOTALS		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
590	160	0	0	0	0
140	120	0	0	0	0
100	80	0	0	0	0
60	40	0	0	0	0
20	0	0	0	0	0
40	60	0	0	0	0
80	590	0	0	0	0
590	160	0	0	0	0

WAR-SR48-7.50

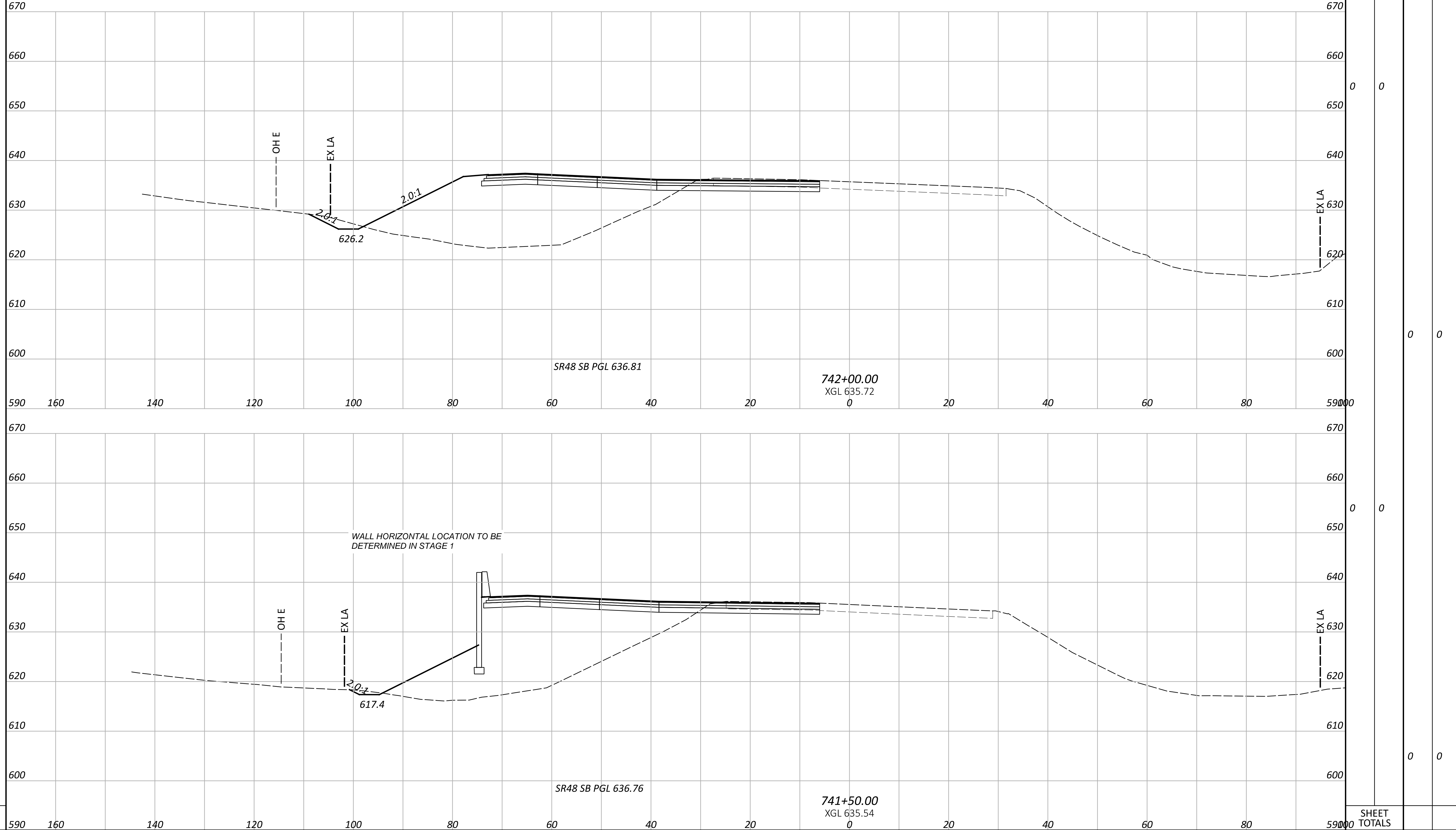
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SEEDING		END AREA CUT	END AREA FILL	VOLUME	
END WIDTH	SQ. YDS.			CUT	FILL
		0	0	0	0
SHEET TOTAL		0	0	0	0

LEGEND:

****** TEMPORARY 1:1 RETAINING WALL
 GRADING SHOWN FOR REFERENCE.
 EXCAVATION FOR WALL CONSTRUCTION
 TO BE DETERMINED AT STAGE 1.

SEE TYPICAL SECTIONS FOR BARRIER WITH
 PAVED GUTTER OPTION HERE



**PRELIMINARY CROSS SECTIONS
 SR-48**

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DSS 04-17-26

PROJECT ID

SHEET TOTAL

P.45

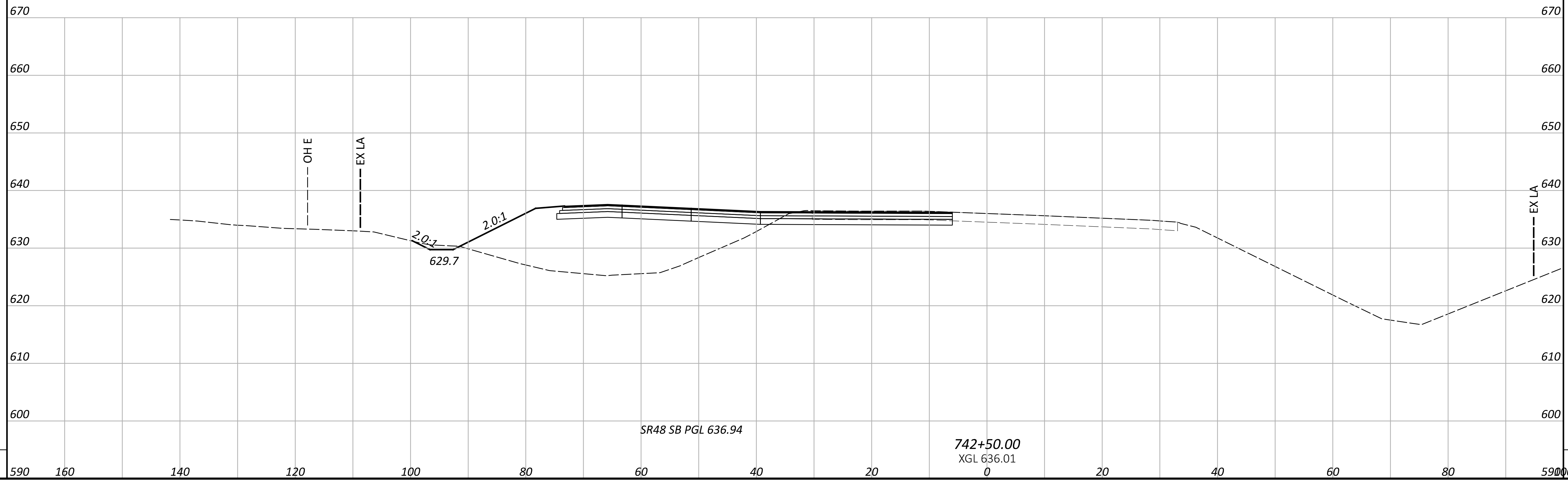
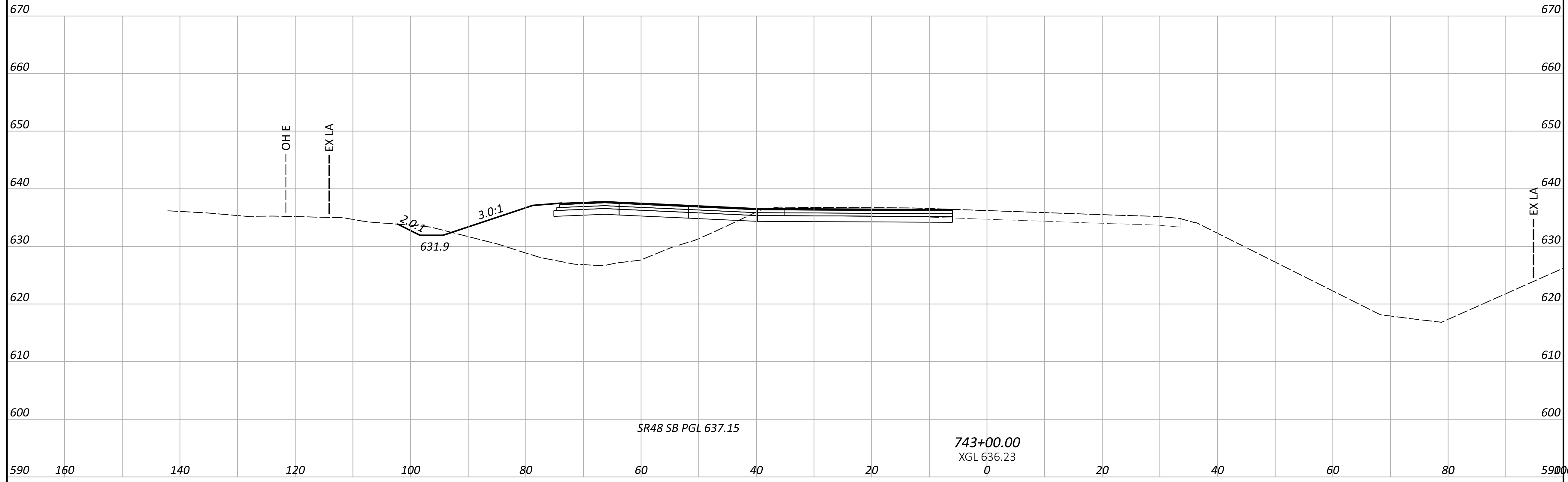
P.51

SEEDING	
END WIDTH	SQ. YDS.

LEGEND:

- ** TEMPORARY 1:1 RETAINING WALL GRADING SHOWN FOR REFERENCE. EXCAVATION FOR WALL CONSTRUCTION TO BE DETERMINED AT STAGE 1.

- # SEE TYPICAL SECTIONS FOR BARRIER WITH PAVED GUTTER OPTION HERE



END AREA	VOLUME				
		CUT	FILL	CUT	FILL
0	0	0	0	0	0
SHEET TOTALS		0	0	0	0

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY



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REVIEWER
DSS 04-17-26

PROJECT ID

SHEET TOTAL
P.46 P.51

SEEDING	
END WIDTH	SQ. YDS.

LEGEND:

*** TEMPORARY 1:1 RETAINING WALL
GRADING SHOWN FOR REFERENCE.
EXCAVATION FOR WALL CONSTRUCTION
TO BE DETERMINED AT STAGE 1.

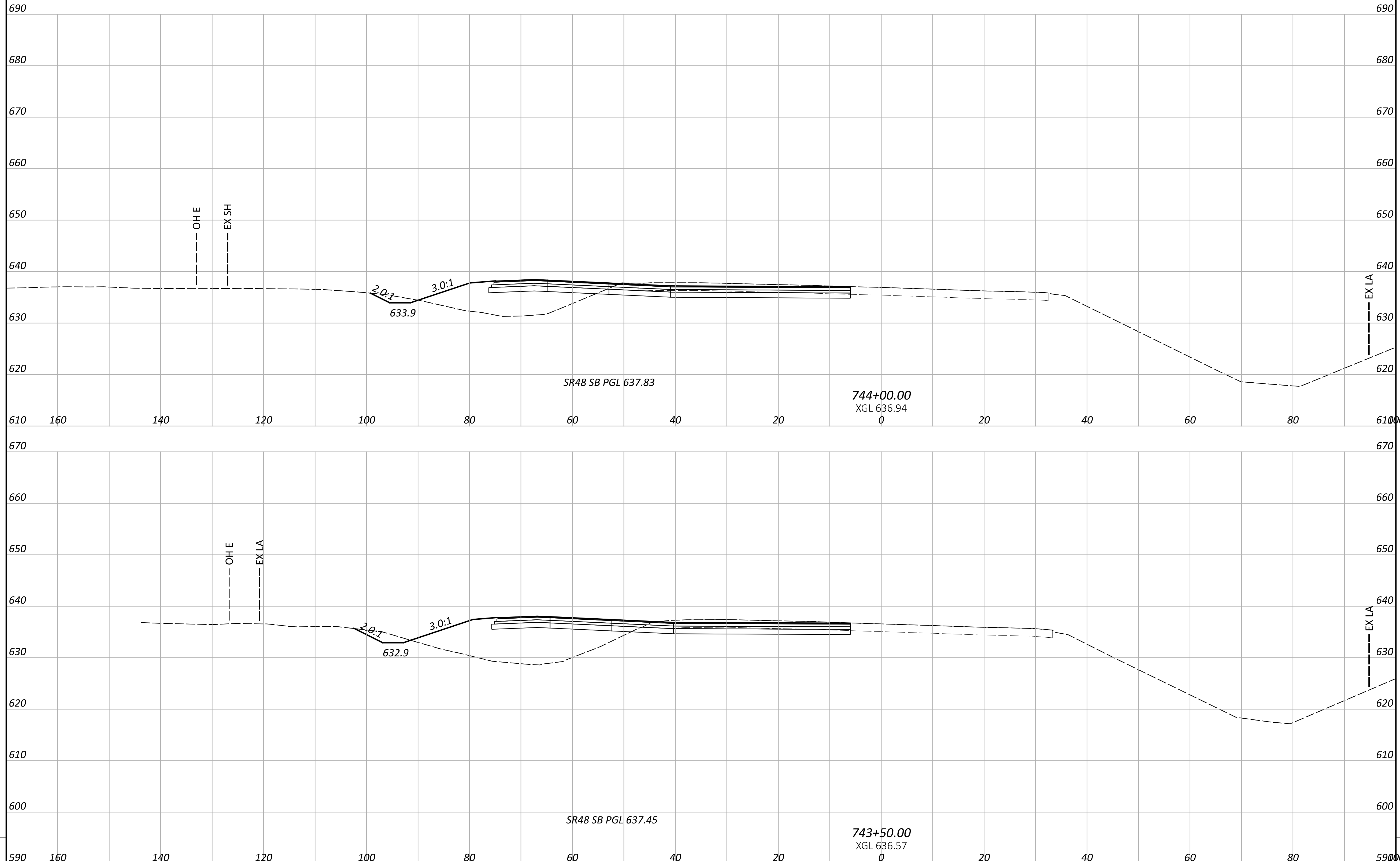
SEE TYPICAL SECTIONS FOR BARRIER WITH
PAVED GUTTER OPTION HERE

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CTY-RTE-SECTION

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SHEET TOTAL



690	690	0	0
680	680		
670	670		
660	660		
650	650		
640	640		
630	630	0	0
620	620		
610	610		
670	670	0	0
660	660		
650	650		
640	640		
630	630	0	0
620	620		
610	610		
600	600		
590	590		
SHEET TOTALS			

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY



DESIGNER

MAS

REVIEWER

DSS 04-17-26

PROJECT ID

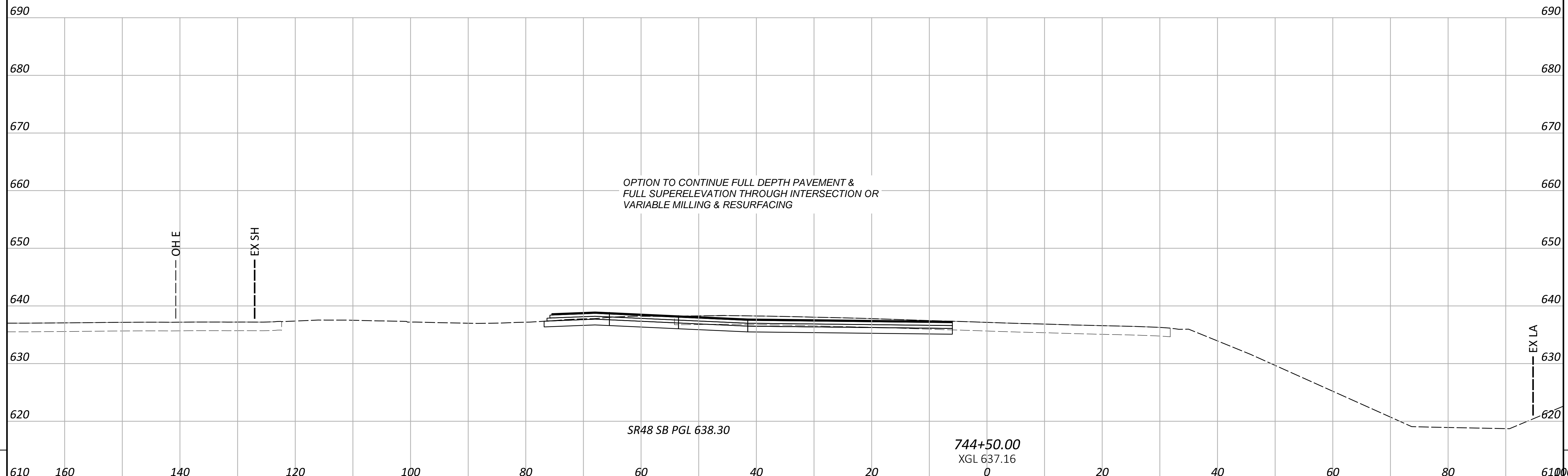
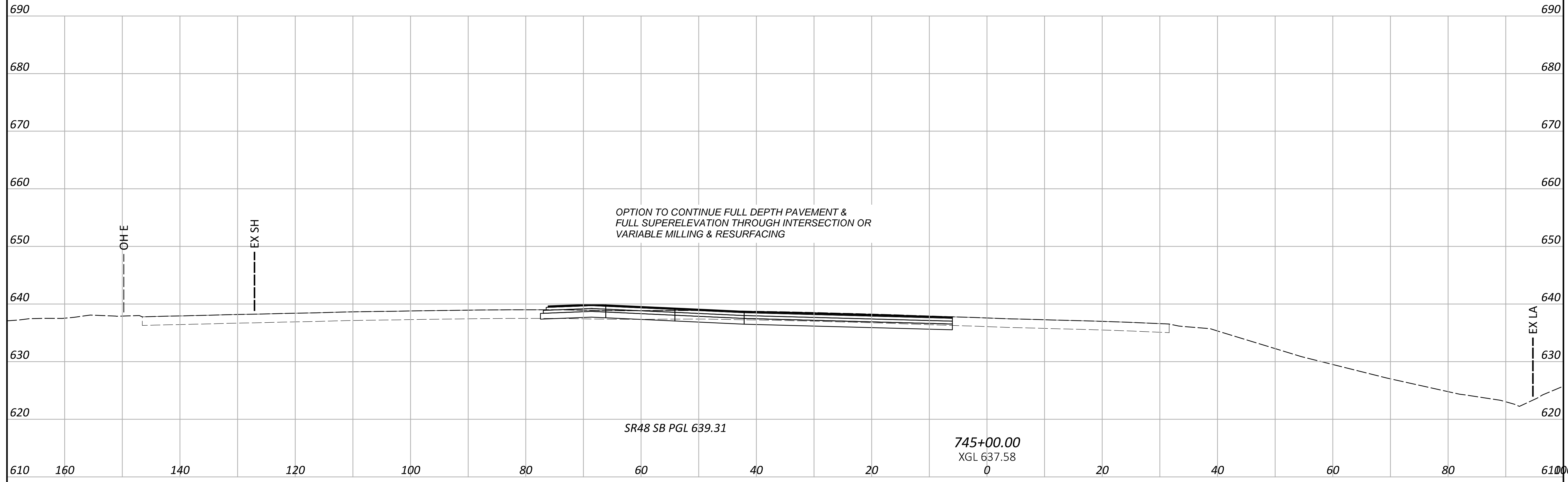
SHEET	TOTAL
P.47	P.51

SEEDING

END WIDTH	SQ. YDS.
610	160
140	
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	
140	
160	
SHEET TOTAL	

LEGEND:

- ** TEMPORARY 1:1 RETAINING WALL GRADING SHOWN FOR REFERENCE. EXCAVATION FOR WALL CONSTRUCTION TO BE DETERMINED AT STAGE 1.
- # SEE TYPICAL SECTIONS FOR BARRIER WITH PAVED GUTTER OPTION HERE



END AREA	VOLUME				
		CUT	FILL	CUT	FILL
0	0	0	0	0	0
SHEET TOTALS		0	0	0	0

PRELIMINARY CROSS SECTIONS
SR-48

DESIGN AGENCY

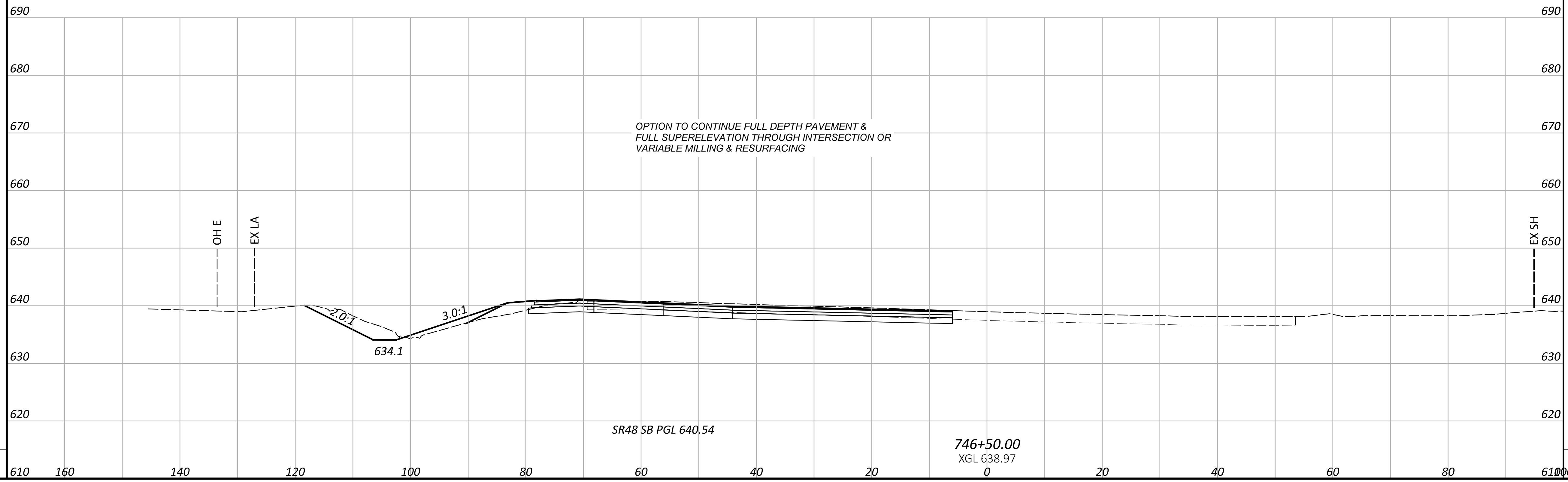
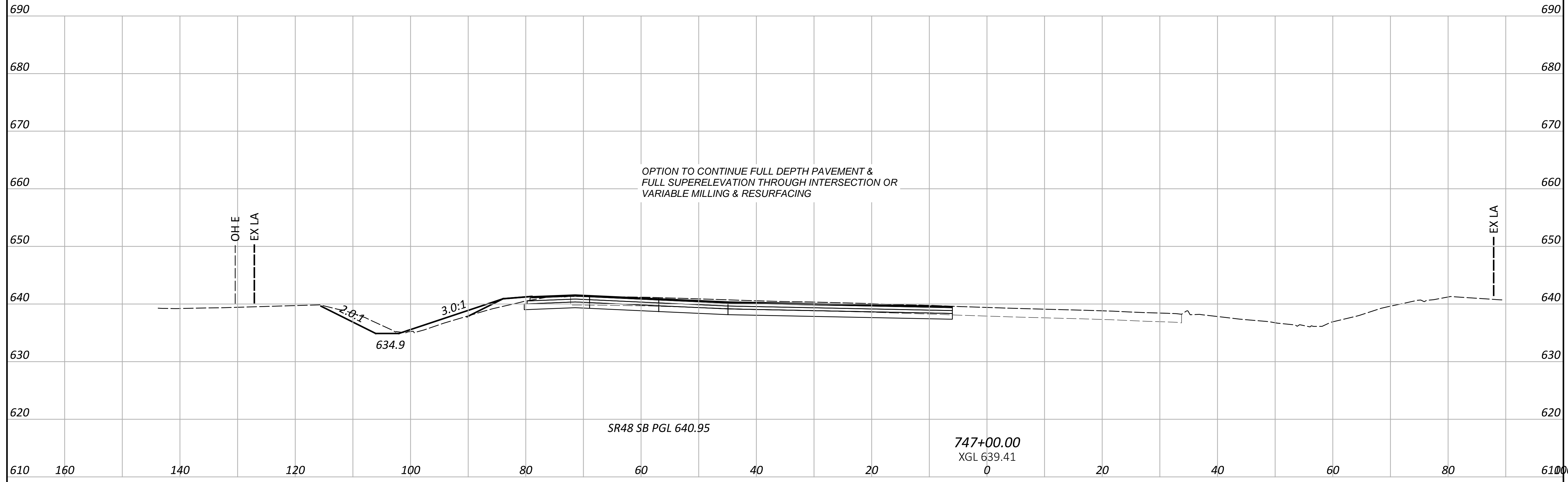


DESIGNER
MAS
REVIEWER
DSS 04-17-26
PROJECT ID

SHEET TOTAL
P.48 P.51

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL

SHEET TOTALS

PRELIMINARY CROSS SECTIONS
SR-48

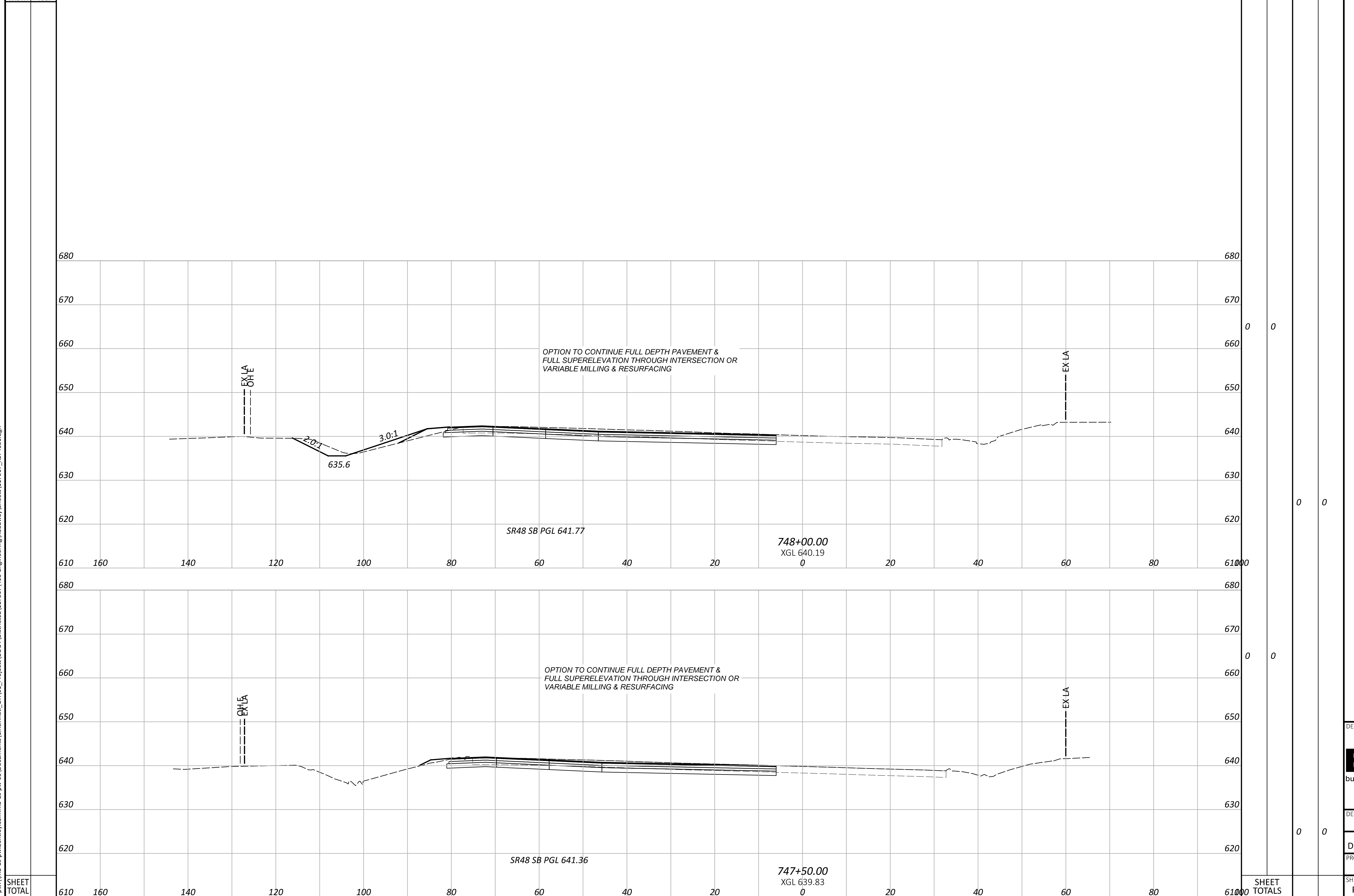
DESIGN AGENCY
B&N
burgessniple.com

DESIGNER
MAS
REVIEWER
DSS 04-17-26
PROJECT ID

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SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



PRELIMINARY CROSS SECTIONS
 SR-48

DESIGN AGENCY



DESIGNER

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REVIEWER

DSS 04-17-26

PROJECT ID

SHEET	TOTAL
P.51	P.51