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DESIGN DESIGNATION

BEGIN MILE POST	END MILE POST	CURRENT ADT (2027)	DESIGN YEAR ADT (2047)	DESIGN HOURLY	DIRECTIONAL DISTRIBUTION	TRUCKS (24 HOUR B&C)
5.769	7.099	85,500	88,800	9,800	85%	7%
7.099	8.385	112,000	141,000	13,400	70%	3%
8.385	9.420	102,000	107,500	9,700	70%	6%
9.671	10.424	119,000	132,000	13,200	70%	6%
9.420	9.671	109,000	135,000	13,500	70%	5%
10.424	11.146	127,000	138,000	16,600	70%	6%
11.146	12.271	114,000	125,000	15,000	70%	6%
12.271	13.285	139,000	156,300	18,800	70%	6%
13.285	13.621	125,000	143,000	17,200	70%	6%
13.621	14.510	139,000	155,700	20,200	90%	6%
14.510	14.914	30500	41000	5,300	100%	8%

STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS														SUPPLEMENTAL SPECIFICATIONS				SPECIAL PROVISIONS							
BP-2.1	1/21/22	DM-2.1	1/18/13	MGS-6.1	1/19/18	AS-1-15	1/20/23	HL-30.22	1/15/21		MT-95.71	7/21/23	MT-101.80	1/17/20	TC-41.20	10/18/13	TC-72.20	7/21/23			800	1/19/24	866	4/21/17	
BP-2.2	1/15/21	DM-4.1	7/17/20			AS-2-15	7/21/23	HL-30.31	1/19/24		MT-95.72	7/21/23	MT-101.90	7/17/20	TC-41.30	4/21/23	TC-73.20	7/21/23			807	1/21/22	873	4/16/21	
BP-2.4	7/19/13			MH-1	7/15/22	EXJ-4-87	1/19/24	HL-30.41	1/21/22		MT-95.73	7/21/23	MT-102.10	7/21/23	TC-41.40	10/18/13	TC-74.10	7/21/23			808	1/18/19	878	1/21/22	
BP-3.1	1/19/24	I-2	7/16/21	MH-2	7/16/21	GSD-1-19	1/19/24	HL-40.20	1/19/24	ITS-14.10	4/21/23	MT-95.82	7/19/13	MT-102.20	4/19/19	TC-41.41	7/19/19	TC-81.22	7/21/23			809	1/19/24	896	7/21/17
BP-5.1	7/15/22	I-2A	7/16/21	MH-4	7/16/21	PCB-91	7/17/20	HL-50.21	7/15/22	ITS-14.11	1/19/24	MT-97.10	4/19/19	MT-102.30	10/16/15	TC-41.50	10/18/13	TC-82.10	7/19/19			816	10/18/19	904	7/15/22
BP-6.1	7/19/13	I-3B, 3B1	7/15/22	MH-5	7/16/21	RB-1-55	7/19/13	HL-60.11	7/21/17	ITS-14.50	1/19/24	MT-97.12	1/20/17	MT-103.10	1/21/22	TC-42.10	10/18/13	TC-83.10	1/17/20			821	4/20/12	907	10/18/19
BP-7.1	1/19/24	I-3D	7/15/22			SBR-1-20	7/21/23	HL-60.31	7/21/23			MT-98.10	1/17/20	MT-104.10	1/19/24	TC-42.20	10/18/13	TC-83.20	1/19/24			829	1/20/17	908	10/20/17
BP-9.1	1/18/19			RM-3.1	7/20/18	SBR-2-20	7/21/23					MT-98.11	1/17/20	MT-105.10	1/17/20	TC-51.11	1/15/16	TC-84.20	1/19/24			832	7/21/23	909	1/19/24
		F-1.1	7/19/13	RM-4.1	1/17/20	SICD-1-21	1/19/24					MT-98.22	1/17/20	MT-110.10	7/19/13	TC-51.12	1/15/16	TC-85.10	1/19/24			840	7/21/23	921	4/20/12
CB-1	7/16/21	F-3.1	7/19/13	RM-4.2	4/17/20	SICD-2-14	1/15/21					MT-98.28	1/17/20			TC-52.10	10/18/13	TC-85.20	4/21/23			848	1/15/21	929	7/21/23
CB-2-2A, 2B, 2C	1/20/23	F-3.3	7/19/13	RM-4.3	1/21/22	VPF-1-90	7/21/23			MT-95.30	7/19/19	MT-98.29	1/17/20	TC-12.31	4/15/22	TC-52.20	1/15/21					850	7/21/23	996	7/21/23
CB-2-3, 2-4	1/20/23	F-3.4	7/19/13	RM-4.4	7/21/23					MT-95.31	7/19/19	MT-98.30	7/16/21	TC-15.116	1/19/24	TC-61.10	4/21/23								
CB-3	7/16/21			RM-4.5	7/21/17	HL-10.11	7/21/23			MT-95.32	4/19/19	MT-99.20	4/19/19	TC-21.11	7/16/21	TC-61.30	7/19/19								
CB-3A	7/16/21	MGS-1.1	7/16/21	RM-4.6	7/19/13	HL-10.12	7/21/23			MT-95.40	7/21/23	MT-99.30	1/17/20	TC-21.21	1/20/23	TC-64.10	7/21/23								
CB-4	7/16/21	MGS-2.1	1/19/18	RM-5.2	7/21/23	HL-10.13	1/20/23			MT-95.41	7/21/23	MT-99.50	7/21/23	TC-21.50	4/17/20	TC-65.10	1/17/14								
CB-5	7/16/21	MGS-3.1	1/19/18			HL-20.11	7/21/23			MT-95.45	7/21/23	MT-100.00	1/19/24	TC-22.10	4/21/23	TC-65.11	1/19/24								
		MGS-3.2	1/18/13			HL-20.13	7/21/23			MT-95.70	7/21/23	MT-101.60	4/21/23	TC-41.10	7/19/13	TC-71.10	4/21/23								
DM-1.1	7/17/20	MGS-4.2	7/19/13			HL-30.11	7/21/23					MT-101.70	4/21/23												
DM-1.2	7/16/21	MGS-5.3	7/15/16			HL-30.21	4/17/20																		

DESIGN AGENCY	BER
DESIGNER	BER
REVIEWER	VDK
PROJECT ID	08/09/23
SHEET	76779
TOTAL	P.0002 P.1587

GENERAL (CONTINUED)

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 71 HOUR

ROADWAY

**ITEM 203 - EMBANKMENT, AS PER PLAN AND
ITEM 203 - EXCAVATION, AS PER PLAN**

ALL PROVISIONS OF 203 APPLY EXCEPT THE METHOD OF MEASUREMENT. THE METHOD OF MEASUREMENT WILL USE THE EARTHWORK CALCULATIONS SHOWN IN THE PLANS INSTEAD OF THE AVERAGE END AREA METHOD. THE CALCULATIONS ARE BASED ON DIGITAL TERRAIN MODEL COMPARISONS BETWEEN EXISTING AND FINAL SURFACES EXCLUDING THE PAVEMENT.

CEMENT STABILIZATION

THIS PROJECT REQUIRES SUBGRADE IMPROVEMENTS USING CEMENT STABILIZATION PRIOR TO PAVEMENT CONSTRUCTION. CEMENT STABILIZATION SHALL BE PERFORMED TO A DEPTH OF 12 INCHES EXCEPT AREAS FOUND TO CONTAIN UNSUITABLE SOILS SHALL BE STABILIZED TO A DEPTH OF 14 INCHES PER THE TABLE BELOW.

STATION RANGES OF UNSUITABLE SOILS			
ALIGNMENT	BEGIN STATION	END STATION	LENGTH (FT)
IR 90	742+00.00	746+00.00	400.00
RAMP 117-11	35+50.00	42+52.49	702.49
RAMP 117-12	33+63.90	43+76.68	1,012.78

CHEMICALLY STABILIZE SUBGRADES TO 18 INCHES BEYOND THE EDGE OF THE SURFACE OF PAVEMENT, PAVED SHOULDERS, PAVED MEDIANS AND 18 INCHES FROM THE FACE OF NEW CURBS. WHERE CEMENT STABILIZATION IS PERFORMED, ITEM 204 - SUBGRADE COMPACTION SHALL NOT BE PERFORMED.

THE CONTRACTOR SHALL PERFORM THE MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS ACCORDING TO 206 OF THE C&MS AND SUPPLEMENT 1120. PAYMENT FOR THE MIX DESIGN SHALL BE PER:

ITEM 206 - MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, LUMP

IN ACCORDANCE WITH SECTIONS 107.10 AND 107.16 OF THE C&MS, THE CONTRACTOR SHALL EXERCISE CAUTION WHEN PERFORMING CEMENT STABILIZATION IN THE VICINITY OF ALL EXISTING AND PROPOSED UTILITY CROSSINGS. THE UTILITY DEPTHS ARE NEAR THE MINIMUM COVER REQUIREMENTS. THE CONTRACTOR SHALL AVOID USING POWER DRIVEN ROTARY MIXERS DIRECTLY ON TOP OF THE UTILITY CROSSINGS.

SUBGRADE EXCAVATION

IN AREAS WHERE SHALLOW ROCK IS ENCOUNTERED IN THE PROPOSED SUBGRADE WITHIN 12 INCHES BELOW THE BOTTOM OF THE PROPOSED PAVEMENT BUILDUP, CEMENT STABILIZATION SHALL NOT BE PERFORMED. THE CONTRACTOR SHALL EXCAVATE TO A DEPTH 6 INCHES BELOW THE FINAL SUBGRADE ELEVATION. THE WIDTH OF THE UPPER 6 INCHES OF AGGREGATE BASE SHALL EXTEND 18 INCHES BEYOND PAVED SHOULDERS. THE ADDITIONAL 6 INCHES BELOW THE BOTTOM OF THE 6 INCH AGGREGATE BASE SHALL BE REPLACED WITH ITEM 304 AGGREGATE BASE AND SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND PAVED SHOULDERS.

THE FOLLOWING LOCATIONS REPRESENT AREAS WHERE SHALLOW ROCK EXISTS BASED ON THE SUBSURFACE INVESTIGATION.

204 - EXCAVATION OF SUBGRADE, AS PER PLAN - SHALLOW ROCK				
ALIGNMENT	BEGIN STA	END STA	LENGTH (FT)	VOLUME (CU YD)
IR 90	563+00.00	659+00.00	9,801.82*	25,969
IR 90	674+00.00	682+00.00	800.00	2,075
IR 90	726+00.00	738+00.00	1,200.00	3,728
RAMP W1	36+39.23	42+13.75	574.52	341
RAMP W2	29+40.99	37+80.90	839.91	438
RAMP 117-5	27+06.36	31+00.00	393.64	197
RAMP 117-8	24+03.19	33+64.10	960.91	569
RAMP 117-9	30+57.77	39+69.36	911.59	431

*STATION EQUATION: STA. 617+61.82 BK R1 = STA. 615+60.00 AH R2

ADDITIONAL LOCATIONS WHERE EXCAVATION AND REPLACEMENT IS REQUIRED AS DESCRIBED ABOVE ARE AS FOLLOWS:

1. WB MEDIAN SHOULDER FROM STA 539+50 TO STA 546+10 FOR THE AREA WITHIN THE MAINTENANCE OF TRAFFIC CROSSOVER.
2. FULL WIDTH OF THE EASTBOUND AND WESTBOUND PAVEMENT AND SHOULDERS FROM STA 696+30 TO STA 708+00.

204 - EXCAVATION OF SUBGRADE, AS PER PLAN - ADDITIONAL AREAS				
ALIGNMENT	BEGIN STA	END STA	LENGTH (FT)	VOLUME (CU YD)
IR 90	539+50.00	546+10.00	660.00	417
IR 90	696+30.00	708+00.00	1,170.00	3,001

A VOLUME OF ITEM 204 EXCAVATION OF SUBGRADE, AS PER PLAN HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK DESCRIBED ABOVE.

ITEM 304 AGGREGATE BASE IS NOT INCLUDED IN THE COST OF ITEM 204 ABOVE AND WILL BE PAID FOR SEPARATELY AS ITEMIZED IN THE GENERAL SUMMARY.

TEST HOLES

WHERE PLANS PROVIDE FOR PROPOSED SUBGRADE STABILIZATION, UNDERCUTTING, UNDERDRAIN, LIGHTING CONDUIT OR ITS CONDUIT TO CROSS OVER OR UNDER AN EXISTING UNDERGROUND UTILITY AND THE UTILITY DEPTH IS NOT SHOWN ON THE PLAN, THE CONTRACTOR WILL BE PERFORM TEST HOLES TO DETERMINE THE DEPTH OF THE UTILITY AT THE DIRECTION OF THE ENGINEER.

THE CONTRACTOR SHALL HAVE THE UTILITY MARKED USING OHIO 811 AND/OR BY USE OF RADIO FREQUENCY LOCATORS OR OTHER APPROVED METHOD. ONCE LOCATED, THE CONTRACTOR SHALL CAREFULLY HAND AND/OR VACUUM EXCAVATE TO DETERMINE THE DEPTH OF THE EXISTING UTILITY AND PROVIDE THE SURVEYED COORDINATE AND ELEVATION INFORMATION TO THE ENGINEER.

TEST HOLES (CONTINUED)

IF IT IS DETERMINED THAT THE PROPOSED SUBGRADE STABILIZATION, LIGHTING CONDUIT OR ITS CONDUIT WILL BE IN CONFLICT WITH AN EXISTING UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED WORK WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

THE FOLLOWING QUANTITY IS INCLUDED FOR USE AS DIRECTED BY THE ENGINEER FOR THE UTILITY LOCATION BY USE OF TEST HOLES AS DESCRIBED ABOVE:

ITEM 203 - ROADWAY, MISC.: TEST HOLE 24 EACH

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

**ITEM 606 - GUARDRAIL, TYPE MGS, AS PER PLAN
GUARDRAIL, TYPE MGS HALF POST SPACING, AS PER PLAN
GUARDRAIL, TYPE MGS QUARTER POST SPACING, AS PER PLAN**

THE POSTS FOR THESE ITEMS SHALL BE STEEL PER 710.15. ALL OTHER PROVISIONS OF 606 SHALL APPLY.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER C&MS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

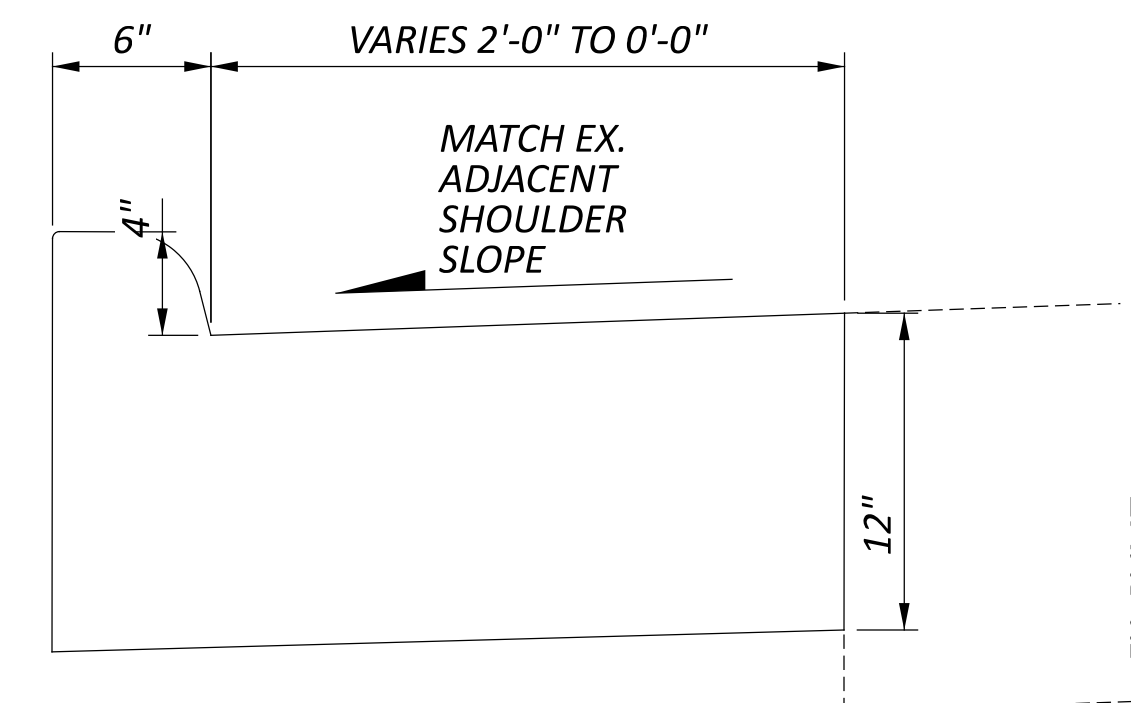
ITEM 622 - CONCRETE BARRIER END SECTION, TYPE D, AS PER PLAN

CONSTRUCT REFERENCE CB-106 PER STANDARD CONSTRUCTION RM-4.5M DATED 6/30/95. IT IS NOT NECESSARY TO TRANSITION THE BACK SIDE OF THE BARRIER TO MATCH THE EXISTING TYPE B NEW JERSEY SHAPE.

ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN

THE FOLLOWING VARIABLE WIDTH GUTTER DETAIL BELOW IS PROVIDED FOR THE LONG-TERM TEMPORARY TRANSITION FROM THE PROPOSED 12 FOOT INSIDE SHOULDER TO THE EXISTING 10 FOOT SHOULDER AT THE FOLLOWING LOCATION:

-STA. 768+85.00 TO STA. 769+18.60 EASTBOUND



THE CURB HEIGHT SHALL BE A UNIFORM 4 INCHES.

PAYMENT FOR ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE MADE AT THE UNIT PRICE BID PER FOOT FOR:

ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN

ITEM 622 - BARRIER, MISC.: PORTABLE BARRIER REMOVED AND RESET

THE CONTRACTOR SHALL REMOVE THE EXISTING PORTABLE CONCRETE BARRIER ON THE EAST SIDE OF W. 140TH ST. NORTH OF RAMP 140-3 TO ALLOW FOR THE RECONSTRUCTION OF THE CURB, CURB RAMP AND SIDEWALK. THE CONTRACTOR MAY STORE THE BARRIER EAST OF THE EXISTING SIDEWALK OR OTHER LOCATION APPROVED BY THE ENGINEER THAT DOES NOT ADVERSELY AFFECT THE SAFETY OF THE PUBLIC. AFTER WORK HAS BEEN COMPLETED IN THIS AREA INCLUDING NECESSARY CONCRETE CURING TIMES, THE CONTRACTOR SHALL RESET THE BARRIER IN ITS ORIGINAL LOCATION AND ORIENTATION.

ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE (B1, C1, D), AS PER PLAN

AT LOCATIONS WHERE THE ENTIRE 15 FOOT LENGTH OF END ANCHORAGES CANNOT BE ACHIEVED OR WHERE THERE IS INSUFFICIENT SPACE FOR TWO BACK-TO-BACK END ANCHORAGES REQUIRED PER THE STANDARD CONSTRUCTION DRAWINGS, THE FOLLOWING WILL BE REQUIRED. THE 6-INCH SPACING OF THE Y401 STEEL REINFORCING BARS SHALL BE MAINTAINED UNIFORMLY FOR THE ENTIRE LENGTH OF THE ANCHORAGE(S) EXCEPT AT EACH END WHERE THE FIRST AND LAST Y401 BAR SHALL BE 4 INCHES FROM THE END OF THE END ANCHORAGE OR EXPANSION JOINT.

THE UNIT PRICE BID FOR EACH AS PER PLAN END ANCHORAGE SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE AND WILL BE PAID FOR PER EACH FOR THE APPLICABLE ITEM LISTED BELOW:

- ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN
- ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN
- ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN

GENERAL NOTES

DESIGN AGENCY

STRUCTUREPOINT

DESIGNER

BER

REVIEWER

VDK 08/09/23

PROJECT ID

76779

SHEET

P.0046

TOTAL

P.1587

CUY-90-6.69

MODEL: Sheet 2 PAPER SIZE: 34x22 (in.) DATE: 4/30/2024 TIME: 10:46:55 PM USER: jslma p:\structurepoint\pw-01\Documents\Projects\202000062\76779\400-Engineering\Roadway\Sheets\76779_CN001.dgn

DRAINAGE (CONTINUED)

ITEM 611 - CONDUIT BORED OR JACKED

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION SHALL BE CLOSER THAN 6 FEET TO THE EDGE OF ANY TRAVEL LANE.

THE CONTRACTOR SHALL SUBMIT A CONDUIT INSTALLATION PLAN REQUIRED BY 611.04.B TO THE ENGINEER FOR APPROVAL. ADDITIONALLY, THE CONTRACTOR SHALL SUBMIT EXCAVATION BRACING PLANS TO THE ENGINEER FOR APPROVAL ACCORDING TO 503.03 FOR ALL CONDUITS THAT WILL BE BORED OR JACKED.

PROVIDE A STEEL CASING PIPE CONFORMING TO 748.06. JOINTS WITH A CIRCUMFERENTIAL FULLY PENETRATING B-U4B WELD THAT IS PERFORMED BY A CERTIFIED WELDER FOR WELDING CODE AMERICAN WELDING SOCIETY (AWS) D1.1 OR MACHINED INTERLOCKING JOINTS ARE PERMITTED. THE INSTALLED CASING PIPE IS THE STORM WATER CONVEYANCE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE.

ITEM 611 - CONDUIT MISC.: (##)" CONDUIT, TYPE (X) ROCK CUT

BASED ON THE SUBSURFACE INVESTIGATION, SOME DRAINAGE CONDUIT RUNS ARE LOCATED IN AREAS WHERE ROCK IS LIKELY TO BE ENCOUNTERED. THE UNIT PRICE BID FOR EACH CONDUIT RUN SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE EACH CONDUIT INSTALLATION AND WILL BE PAID FOR ACCORDING TO THE PERTINENT 611 ITEM BASED ON THE CONDUIT SIZE AND TYPE:

ITEM 611 - CONDUIT, MISC.: (##)" CONDUIT, TYPE (X), ROCK CUT

UNCONFINED COMPRESSIVE STRENGTH FOR ENCOUNTERED BEDROCK

THE UPPERMOST BEDROCK WITHIN THE CUY-90-6.69 PROJECT LIMITS IS COMPOSED PRIMARILY OF DEVONIAN-AGE, OHIO FORMATION SHALE. THE BEDROCK SURFACE ALONG THE IR 90 CENTERLINE BETWEEN RIVERSIDE DRIVE AND WARREN ROAD WILL TYPICALLY BE ENCOUNTERED AT OR WITHIN ONE FOOT OF THE EXISTING GRANULAR BASE LAYER. HISTORIC BORING RECORDS GENERALLY DESCRIBE THE ROCK AS BEING "MEDIUM FIRM" BETWEEN RIVERSIDE DRIVE AND MCKINLEY AVENUE, "VERY SOFT TO MEDIUM FIRM" IN THE AREA OF WOODWARD AVENUE AND "MEDIUM FIRM TO FIRM" BETWEEN WEST 159TH STREET AND WARREN ROAD. FROM WARREN ROAD TO WEST BOULEVARD THE HISTORIC BORING RECORDS GENERALLY DESCRIBE THE ROCK AS BEING "MEDIUM FIRM TO FIRM." THE OHIO FORMATION SHALE WAS ALSO DESCRIBED AS GRAY TO DARK-GRAY; FISSILE; JOINTED; BROKEN TO BADLY BROKEN; CONTAINING ZONES INTERBEDDED WITH THIN CLAY SEAMS; AND HAVING CORE LOSSES RANGING FROM 1% TO 36% (CORE RECOVERY FROM 64% TO 99%).

THE UNCONFINED COMPRESSIVE STRENGTHS FOR THE ENCOUNTERED BEDROCK CAN BE ASSUMED FOR THE PURPOSES OF BIDDING AS FOLLOWS:

- NEAR VALLEYVIEW DRIVE: 1,500 PSI
- BETWEEN RIVERSIDE DRIVE AND MCKINLEY AVENUE: 1,560 PSI
- BETWEEN MCKINLEY AVENUE AND WEST 159TH STREET (WOODWARD): 200 - 2,890 PSI
- BETWEEN WEST 159TH STREET AND WARREN ROAD: 2,250 PSI
- WARREN ROAD TO WEST BOULEVARD: 1,500 - 2,250 PSI

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

CAREFULLY REMOVE AND STORE ALL CASTINGS WITHIN THE RIGHT OF WAY FOR SALVAGE BY DEPARTMENT FORCES.

PAYMENT FOR ALL OF THE ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

CONDUITS WITH PREMIUM JOINTS

DUE TO TUFA CONCERNS, ALL PROPOSED CONDUITS SHALL BE FITTED WITH PREMIUM, WATER-TIGHT JOINTS.

PAYMENT FOR PREMIUM JOINTS IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 ITEM.

MANHOLE, MISC.: MH-3 MODIFIED

MANHOLE, MISC: MH-3 MODIFIED AT STA 582+86.41, 76.94' LT SHALL BE PRE-CAST PER SCD MH-3 EXCEPT THE BASE SHALL BE POURED IN THE FIELD. PRIOR TO THE REMOVAL OF THE EXISTING MANHOLE, THE CONTRACTOR SHALL INSPECT THE BASE AND CONFIRM NO VOIDS OR UNDERMINING IS PRESENT. IF VOIDS ARE IDENTIFIED, THE CONTRACTOR SHALL FILL THE AREA WITH LSM AS DIRECTED BY THE ENGINEER. IF REQUIRED, THE PROPOSED MANHOLE SHALL BE FIELD MODIFIED AS NEEDED TO MATCH THE DIMENSIONS OF THE 60"OUTFALL CONDUIT. PLACE THE MANHOLE IN-LINE WITH THE EXISTING 60"OUTFALL CONDUIT AND CAST-IN-PLACE THE MANHOLE BASE AND INVERTS IN THE FIELD. INSTALL THE PROPOSED 66"CONDUIT AND GROUT ALL JOINTS BETWEEN THE CONDUITS AND THE MANHOLE. THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, AND INCIDENTALS REQUIRED TO INSTALL THE MANHOLE INCLUDING LSM IF REQUIRED.

PAVEMENT

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

ITEM 441 – ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG 70-22M

THE COARSE VIRGIN AGGREGATE FOR THIS ITEM SHALL CONSIST OF A BLEND OF 60% MIN. AIR COOLED BLAST FURNACE SLAG (ACBFS) OR TRAP ROCK FROM ONTARIO WITH LIMESTONE COMPRISING THE REMAINING PERCENTAGE.

ITEM 302 - ASPHALT CONCRETE BASE, (449), PG64-22, AS PER PLAN

MIX DESIGN

- FOLLOW THE REQUIREMENTS OF 302.02 EXCEPT AS MODIFIED BELOW:
 - USE A MAXIMUM F/A RATIO OF 1.4. IF THE F/A RATIO IS GREATER THAN 1.2, RECALCULATE THE F/A RATIO USING THE EFFECTIVE ASPHALT BINDER CONTENT.
 - THE TSR IS REQUIRED AND THE MINIMUM TSR IS 0.70 AS DETERMINED USING SUPPLEMENT 1051. ADD ANTISTRIP ADDITIVE AS SPECIFIED IN 440.06 IF REQUIRED BASED ON TSR AND ENSURE THE MINIMUM IS 0.80 AFTER ANTISTRIP.

QUALITY CONTROL AND ACCEPTANCE

FOLLOW THE REQUIREMENTS AS SPECIFIED IN 403 USING 446 ACCEPTANCE EXCEPT AS MODIFIED BELOW:

- RUN MSG AND AIR VOIDS AND FOLLOW 403.06.G INSTEAD OF 403.06.F.

TABLE 403.06-1

MIX CHARACTERISTIC	OUT OF SPECIFICATION LIMITS [5]
ASPHALT BINDER CONTENT [1]	-0.5% TO 0.5%
1/2 INCH (12.5 MM) SIEVE [1]	-7.0% TO 7.0%
NO. 4 (4.75 MM) SIEVE [1]	-6.0% TO 6.0%
NO. 8 (2.36 MM) SIEVE [1]	-5.0% TO 5.0%
NO. 200 (75 MM) SIEVE [1]	-2.0% TO 2.0%
AIR VOIDS [2]	2.5% TO 5.5%
MSG [3]	-0.015 TO 0.015
F/A [4]	1.4 MAX
VMA	12.0 MIN

- [1] DEVIATION FROM THE JMF.
- [2] FOR DESIGN AIR VOIDS OF 4.0%. COMPACT USING A SIX-INCH MARSHALL HAMMER WITH 70 BLOWS ON BOTH SIDES PER 302.02.
- [3] DEVIATION FROM THE MTD.
- [4] IF THE F/A RATIO IS GREATER THAN 1.2, RECALCULATE THE F/A RATIO USING THE EFFECTIVE ASPHALT BINDER CONTENT.
- [5] DO NOT FOLLOW THE MINIMUM 7% RETAINED DURING PRODUCTION PER 403.06.F.5.

- REPLACE MSG COMPARISON IN TABLE 403.10-1 WITH 0.015.
- NOTIFY ERIC BIEHL - OMM 614-275-1380 AND JULIA MILLER – OCA 614-466-3165 ONE WEEK PRIOR TO PLANNED BEGINNING PRODUCTION AND PLACEMENT. YOU MAY EMAIL THEM AS WELL.

DENSITY ACCEPTANCE

FOLLOW THE REQUIREMENTS OF 446 ASPHALT CONCRETE CORE DENSITY ACCEPTANCE, INCLUDING JOINT CORES, EXCEPT AS MODIFIED BELOW:

- OBTAIN 6-INCH DIAMETER CORES ON EACH LIFT PLACED.
- OBTAIN JOINT CORES AT COLD LONGITUDINAL JOINTS SUCH THAT THE CORE'S CLOSEST EDGE IS 6 INCHES (152 MM) FROM THE EDGE OF THE MAT.
- PAY FACTORS FOR EACH LIFT OF 302 APP WILL BE AS SPECIFIED IN THE FOLLOWING TABLE.

ITEM 302 - ASPHALT CONCRETE BASE, (449), PG64-22, AS PER PLAN (CON'T.)

MEAN OF LOT CORE DENSITY[1]	PAY FACTOR
	302, APP
>98.0%	[2]
>97.0% TO 98.0%	[3]
92.0% TO 97.0%	1.00
91.0% TO 91.9%	0.90
90.0% TO 90.9%	0.80
89.0% TO 89.9%	0.70
<89.0%	[4]

- [1] MEAN OF CORES AS PERCENT OF AVERAGE MSG FOR THE PRODUCTION DAY.
- [2] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE.
THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.50.
- [3] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE.
THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.70.
- [4] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE.
THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.50.

IF MATERIAL IS REMOVED AND REPLACED THE CONTRACTOR WILL REMOVE AND REPLACE THIS COURSE AND ALL COURSES PAVED ON THIS COURSE.

ITEM 209 RESHAPING UNDER GUARDRAIL, AS PER PLAN

THIS ITEM OF WORK SHALL BE USED TO PREPARE PROPOSED AND EXISTING GUARDRAIL RUNS FOR PAVING UNDER GUARDRAIL, INCLUDING THE REMOVAL AND DISPOSAL OF EXISTING ASPHALT UNDER GUARDRAIL.

A SAWCUT WILL BE PERFORMED, WHEN APPLICABLE, TO ASSIST THE REMOVAL OF EXISTING ASPHALT UNDER GUARDRAIL AND MINIMIZE DAMAGE TO EXISTING SHOULDER ASPHALT. PAYMENT FOR SAWCUTTING WILL BE INCLUDED IN THE BID PRICE FOR ITEM 209 RESHAPING UNDER GUARDRAIL, AS PER PLAN.

FILL ALL HOLES REMAINING AFTER REMOVAL OF GUARDRAIL POSTS AND ANCHOR ASSEMBLIES WITH GRANULAR MATERIAL. DO NOT USE FILL MATERIAL CONTAINING SOD. ALL FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER AND SHALL BE COMPACTED AS DIRECTED BY THE ENGINEER. PAYMENT FOR THE ABOVE IS INCLUDED IN THE APPLICABLE GUARDRAIL ITEM.

RESHAPE AND COMPACT SUBGRADE TO ENSURE POSITIVE DRAINAGE. ESTABLISH A CROSS-SLOPE OF 0.042 (HALF INCH PER FOOT). GRADE TO A MAXIMUM WIDTH OF 6' TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE TRAVEL LANES.

ALL COLLECTED DEBRIS AND TOPSOIL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN SECTION 105.17 OF THE CMS.

IN AREAS WHERE ASPHALT UNDER GUARDRAIL WILL NOT BE REPLACED, THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 703.16 AND PLACED TO GRADE AS APPROVED BY THE ENGINEER. SEED AND MULCH THESE AREAS ACCORDING TO SECTION 659.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 209 RESHAPING UNDER GUARDRAIL, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO PERFORM THE WORK.

GENERAL NOTES

CUY-90-6.69

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DESIGN AGENCY	BER
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0049 P.1587

ITEM 614, MAINTAINING TRAFFIC

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

NO WORK SHALL BE PERFORMED AND LANES IN THE THEN CURRENT MAINTENANCE OF TRAFFIC SCHEME SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

- NEW YEAR'S DAY (OBSERVED)
- MEMORIAL DAY
- FOURTH OF JULY (OBSERVED)
- LABOR DAY
- GENERAL/REGULAR ELECTION DAY (NOVEMBER)
- THANKSGIVING
- CHRISTMAS (OBSERVED)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENTS FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL	TIME ALL LANES MUST BE OPEN FOR TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00AM TUESDAY
MONDAY (TOTAL SOLAR ECLIPSE)	12:00N FRIDAY THROUGH 6:00AM WEDNESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)	5:00AM TUESDAY THROUGH 12:00AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00AM WEDNESDAY THROUGH 6:00AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT FOUND IN THESE MOT NOTES.

ALL EXISTING RAMPS LANES SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE ORIGINAL OR PROPOSED FINAL ALIGNMENT AT ALL TIMES EXCEPT FOR SINGLE LANE RAMPS MAYBE BE CLOSED FOR A PERIOD NOT TO EXCEED 45 CALENDAR DAYS, WHEN TRAFFIC MAY BE DETOURED AS SHOWN ON SHEETS P.0084 TO P.0102. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED ACCORDING TO THE TABLE IN THE WINDOW CONTRACT NOTE.

EXCEPT AS DESCRIBED IN THE APPROVED MAINTENANCE OF TRAFFIC POLICY EXCEPTION, A MINIMUM OF 4 LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES EAST OF THE HILLARD BLVD. INTERCHANGE BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 502 STRUCTURE FOR MAINTAINING TRAFFIC, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, AND TEMPORARY SURFACES USING ITEMS 410 AND 614, EXCEPT 3 LANES SHALL BE IN EACH DIRECTION WEST OF THE HILLIARD BLVD. INTERCHANGE.

ITEM 614, MAINTAINING TRAFFIC (CONTINUED)

ALL EXISTING LANES, INCLUDING RAMPS, SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE ORIGINAL OR PROPOSED FINAL ALIGNMENT DURING WINTER MONTHS DEFINED TO BE FROM OCTOBER 15 THROUGH MARCH 31. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED ACCORDING TO THE TABLE IN THE INCENTIVE/DISINCENTIVE CONTRACT NOTE.

SCHEDULE OF THROUGH LANES TO BE MAINTAINED

ALL LANE CLOSURES MAY ONLY BE IMPLEMENTED AT THE TIMES PERMITTED BY THE "DISTRICT 12 PERMITTED LANE CLOSURE TIMES" LIST, WHICH IS LOCATED ON THE ODOT WEBSITE:

<http://www.dot.state.oh.us/districts/D12/HighwayManagement/Pages/PermittedLaneClosures.aspx>

THE LATEST REVISION, AT 14 DAYS PRIOR TO THE BID DATE, SHALL BE IN EFFECT FOR THIS PROJECT.

NO LANE OR SHOULDER CLOSURES SHALL BE IN PLACE WHEN NO WORK IS BEING PERFORMED, UNLESS DIRECTED BY THE ENGINEER. SHOULDER CLOSURES SHALL ONLY BE ALLOWED AT THE TIMES SPECIFIED FOR LANE CLOSURES.

ANY ROADWAY NOT LISTED SHALL NOT HAVE ANY LANE CLOSURES ON WEEKDAYS FROM 6:30AM TO 9:00AM AND 3:00PM TO 6:00PM. CONTACT TROY ONESTI, DISTRICT 12 WORK ZONE TRAFFIC MANAGER, AT (216) 584-2204 IF THERE ARE ANY QUESTIONS.

WORK TO REPAIR THE FASCIA BEAM AT WOOSTER ROAD STRUCTURE CUY-00020-08.470 DETAILED ON SHEETS P.1352, P.1353 AND P.1355A SHALL BE PERFORMED AT TIMES ALLOWED BY THE "DISTRICT 12 PERMITTED LANE CLOSURE TIMES." ALL TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THIS WORK SHALL BE IN ACCORDANCE WITH AND ARE INCIDENTAL TO THE LUMP SUM FOR ITEM 614 - MAINTAINING TRAFFIC. NO SEPARATE PAYMENT WILL BE MADE.

APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTION

PORTIONS OF THE MOT PLANS AS DESCRIBED BELOW HAVE AN APPROVED MOT EXCEPTION PER TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP)).

THE APPROVED MOT EXCEPTION INCLUDES A LONG-TERM SINGLE LANE CLOSURE FOR TWO CONSTRUCTION SEASONS EXCLUDING WINTER MONTHS ON I-90 EB FROM STA 540+44 TO STA 662+88. THIS LANE CLOSURE PERMITS THE TOTAL NUMBER OF OPEN EASTBOUND LANES TO BE REDUCED FROM FOUR TO THREE.

A MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD A MINIMUM OF 30 CALENDAR DAYS PRIOR TO IMPLEMENTATION OF EACH APPROVED MOT EXCEPTION. THIS MEETING SHALL INCLUDE THE DISTRICT WORK ZONE TRAFFIC MANAGER, AS WELL AS THE CONTRACTOR, WORKSITE TRAFFIC SUPERVISOR (WTS) AND ANY SUBCONTRACTORS INVOLVED WITH TEMPORARY TRAFFIC CONTROL.

IN ADDITION TO ANY NOTIFICATIONS REQUIRED IN OTHER NOTES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF IMPLEMENTATION OF THE APPROVED MOT EXCEPTION(S) REFERENCED ABOVE SO THAT THE PROJECT ENGINEER CAN SEND E-MAIL NOTIFICATION TO THE OFFICE OF ROADWAY ENGINEERING, STATEWIDE TMC, DWZTM AND SPECIAL HAULING PERMITS AT LEAST 2 BUSINESS DAYS IN ADVANCE OF THE IMPLEMENTATION OF THE APPROVED MOT EXCEPTION(S) REFERENCED ABOVE. REFERENCE "EXCEPTION REQUEST APPROVAL DATED 10/18/2022 FOR PID 76779" IN THE NOTIFICATION AND OTHER CORRESPONDENCE.

APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTION (CONTINUED)

ANY CHANGES TO THE MOT THAT IMPACT THE PREVIOUSLY APPROVED MOT EXCEPTION(S) LISTED ABOVE SHALL BE APPROVED IN WRITING BY THE MOT EXCEPTION COMMITTEE (MOTEC). IN THE EVENT THAT SUCH CHANGES ARE PROPOSED, THE REQUEST SHALL BE COORDINATED THROUGH THE DISTRICT WORK ZONE TRAFFIC MANAGER (DWZTM) A MINIMUM OF 30 CALENDAR DAYS PRIOR TO THE DESIRED IMPLEMENTATION DATE. IF THE DISTRICT AGREES WITH THE PROPOSED CHANGES THE DWZTM SHALL SEEK APPROVAL FROM THE MOTEC. IN THE EVENT THE PROPOSED CHANGES ARE APPROVED IN WRITING, THE CLOSURES ARE STILL SUBJECT TO NOTIFICATION REQUIREMENTS WITHIN THIS NOTE PRIOR TO IMPLEMENTATION.

LANE VALUE CONTRACT TABLE

OUTSIDE OF WINTER MONTHS AND THE APPROVED MOT POLICY EXCEPTION, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE FOR EACH UNIT OF TIME THE DESCRIBED CRITICAL LANE/RAMP IS RESTRICTED FROM FULL USE BY THE TRAVELING PUBLIC WITHIN THE RESTRICTED TIME PERIOD. THE LANE VALUE CONTRACT TABLE IS LOCATED BELOW. THE DISINCENTIVES WILL BE ASSESSED FOR ALL RESTRICTIONS OF THE CRITICAL WORK.

CRITICAL WORK IS SHOWN IN THE LANE VALUE CONTRACT TABLE.

CRITICAL WORK IS DEFINED AS HAVING THE DESIGNATED SECTIONS OPEN TO UNRESTRICTED TRAFFIC AS SHOWN IN THE TABLE, OR THE ENTIRE PROJECT IF NOT OTHERWISE LISTED.

UNRESTRICTED TRAFFIC IS DEFINED AS ALL TRAFFIC LANES BEING AVAILABLE FOR USE WITH SPECIFIED STRIPING AND SAFETY FEATURES IN PLACE. DISINCENTIVES SHALL APPLY TO EACH LANE RESTRICTED BEYOND THOSE ALLOWED IN THE D12 PERMITTED LANE TIMES.

DESCRIPTION OF CRITICAL LANE/RAMP TO BE MAINTAINED	RESTRICTION TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME UNIT PER LANE
I.R. 90 FROM LAKEVIEW AVE TO WOOSTER RD	AS PER THE D12 PERMITTED LANE TIMES	EACH MINUTE	\$275
I.R. 90 FROM WOOSTER RD TO WEST BLVD	AS PER THE D12 PERMITTED LANE TIMES	EACH MINUTE	\$265
RAMPS HA, HB, 117-12	ONE LANE OPEN AT ALL TIMES	EACH MINUTE	\$265

INCENTIVE/DISINCENTIVE CONTRACT

THE CONTRACTOR SHALL COMPLETE ALL CRITICAL WORK AND SAFETY ITEMS ACCORDING TO THE DISINCENTIVE CONTRACT TABLES. THE INCENTIVE/DISINCENTIVE CONTRACT TABLE ARE LOCATED BELOW. IN THE EVENT THE CONTRACTOR IMPEDES THE FLOW OF TRAFFIC SUBSEQUENT TO THE OPENING TO UNRESTRICTED TRAFFIC, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE ACCORDING TO THE INCENTIVE/DISINCENTIVE CONTRACT TABLE.

CRITICAL WORK IS SHOWN IN THE INCENTIVE/DISINCENTIVE CONTRACT TABLE.

CRITICAL WORK IS DEFINED AS HAVING THE DESIGNATED SECTION OF WORK OPEN TO UNRESTRICTED TRAFFIC AS SHOWN IN THE TABLES, OR THE ENTIRE PROJECT IF NOT OTHERWISE LISTED.

UNRESTRICTED TRAFFIC IS DEFINED AS ALL TRAFFIC LANES BEING AVAILABLE FOR USE AT THEIR FINAL DESIGN WIDTH WITH ALL MARKINGS, RPM'S, AND SAFETY FEATURES INSTALLED, ALONG WITH NO RESTRICTIONS WITHIN 2 FEET OF THE EDGE LINE ON THE SHOULDERS.

DESCRIPTION OR LOCATION OF CRITICAL WORK	COMPLETION DATE	TIME PERIOD	DISINCENTIVE \$ PER TIME PERIOD	INCENTIVE \$ PER TIME PERIOD
PHASE 1 COMPLETE; START WINTER PHASE 1	10/15/2024	DAY	\$10,000	\$0
PHASE 3 COMPLETE; START WINTER PHASE 2	10/15/2025	DAY	\$10,000	\$0
PHASE 5 COMPLETE; START WINTER PHASE 3	10/15/2026	DAY	\$10,000	\$0

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 353 M. GAL.

DETOUR SIGNING

DETOUR SIGNING SHALL BE AS DETAILED IN THE PLANS. THE FOLLOWING ITEM HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 614, DETOUR SIGNING LUMP SUM

DESIGN AGENCY

STRUCTUREPOINT INC.

DESIGNER

BER

REVIEWER

VDK 08/09/23

PROJECT ID

76779

SHEET TOTAL

P.0056 P.1587

SEQUENCE OF CONSTRUCTION

FOR TEMPORARY DRAINAGE, SEE MOT PLANS AND DRAINAGE DETAILS

PHASE 1

TRAFFIC:

- 1. TRAFFIC LOCATED ON ITS EXISTING PATTERN EXCEPT AS SHOWN IN THE PLANS

CONSTRUCTION:

- 1. FOUR CROSSOVERS. FIRST WEST OF LAKEVIEW AVE, SECOND WEST OF WOOSTER RD, THIRD WEST OF ALGER RD, AND FOURTH EAST OF W 85TH ST
- 2. TEMPORARY PAVEMENT ON THE OUTSIDE OF RAMP HA
- 3. FASCIA BEAM REPAIR AT WOOSTER ROAD STRUCTURE CUY-00020-08.470

WINTER PHASE 1

- 1. ALL LANES ARE OPEN AND RESTORED TO THEIR PRE-CONSTRUCTION LOCATION
- 2. CROSSOVERS SHALL BE PROTECTED USING PORTABLE BARRIER

PHASE 2 STEP A

TRAFFIC:

- 1. ALL RAMPS ARE OPEN
- 2. ONE EASTBOUND LANE IS CLOSED FROM HILLIARD BLVD TO THE WARREN RD ENTRANCE RAMP.
- 3. SHIFT IR 90 WESTBOUND LANES TO OUTSIDE OF IR 90 WESTBOUND SIDE BETWEEN WEST OF LAKEVIEW AVE AND EAST OF W 85TH ST UTILIZING EXISTING SHOULDER
- 4. CROSSOVER INSIDE IR 90 EASTBOUND LANE TO INSIDE OF IR 90 WESTBOUND SIDE WEST OF LAKEVIEW AVE
- 5. CROSSOVER INSIDE IR 90 EASTBOUND LANE TO INSIDE OF IR 90 WESTBOUND SIDE WEST OF ALGER RD
- 6. CROSSOVER TWO INSIDE IR 90 EASTBOUND LANES BACK TO IR 90 EASTBOUND SIDE EAST OF W 85TH ST
- 7. SHIFT TWO OUTSIDE IR 90 EASTBOUND LANES TO OUTSIDE OF IR 90 EASTBOUND SIDE BETWEEN WEST OF LAKEVIEW AVE AND EAST OF W 85TH ST

CONSTRUCTION:

- 1. INSIDE PORTION OF IR 90 EASTBOUND SIDE BETWEEN EAST OF LAKEVIEW AVE AND WEST OF WEST BLVD UP TO INTERMEDIATE COURSE

PHASE 2 STEP B (WILL BE COMPLETED DURING NIGHTTIMES AND WEEKENDS)

TRAFFIC:

- 1. TRAFFIC PATTERN FOR IR 90 EASTBOUND AND WESTBOUND SIDES REMAINS UNCHANGED
- 2. CLOSE CROSSOVER LANE THAT LOCATED WEST OF ALGER RD

CONSTRUCTION:

- 1. REMAINING INSIDE PORTION OF IR 90 EASTBOUND SIDE AT THE SECOND CROSSOVER LOCATION UP TO INTERMEDIATE COURSE

STEPS SEQUENCE DURING PHASE 2:

- STEP B CAN BE COMPLETED ANYTIME DURING STEP A

PHASE 3 STEP A

TRAFFIC:

- 1. ALL RAMPS ARE OPEN
- 2. TRAFFIC PATTERN FOR IR 90 WESTBOUND SIDE REMAINS UNCHANGED
- 3. SHIFT TWO OUTSIDE IR 90 EASTBOUND LANES TO INSIDE OF IR 90 EASTBOUND SIDE BETWEEN WEST OF LAKEVIEW AVE AND EAST OF W 85TH ST
- 4. SHIFT RAMP HA TRAFFIC TO OUTSIDE OF ITS PAVEMENT

CONSTRUCTION:

- 1. OUTSIDE PORTION OF IR 90 EASTBOUND SIDE BETWEEN EAST OF LAKEVIEW AVE AND WEST OF WEST BLVD UP TO INTERMEDIATE COURSE
- 2. INSIDE PORTION OF RAMP HA
- 3. INSTALL TEMPORARY PAVEMENT MARKINGS IN PERMANENT LOCATION

PHASE 3 STEP B

TRAFFIC:

- 1. TRAFFIC PATTERN FOR IR 90 EASTBOUND AND WESTBOUND SIDES REMAINS UNCHANGED
- 2. RAMPS MD, W2A, 117-8, 117-7, AND ME ARE CLOSED
- 3. SHIFT RAMP HA TRAFFIC TO INSIDE OF ITS PAVEMENT

CONSTRUCTION:

- 1. RAMPS MD, W2A, 117-8, 117-7, AND ME
- 2. OUTSIDE PORTION OF RAMP HA

PHASE 3 STEP C

TRAFFIC:

- 1. TRAFFIC PATTERN FOR IR 90 EASTBOUND AND WESTBOUND SIDES REMAIN UNCHANGED
- 2. RAMPS ME, W2, 140-4, 117-9, AND W14 ARE CLOSED

CONSTRUCTION:

- 1. RAMPS ME, W2, 140-4, 117-9, AND W14

STEPS SEQUENCE DURING PHASE 3:

- STEP B CAN BE COMPLETED ANYTIME DURING STEP A
- STEP B MUST BE COMPLETED BEFORE STEP C BEGINS
- STEP C MUST BE COMPLETED AS THE LAST PART OF STEP A

RAMP CONSTRUCTION SEQUENCE DURING PHASE 3:

- RAMPS ME AND W2 MUST BE DONE AS THE LAST PART OF PHASE 3

WINTER PHASE 2

- 1. THE EASTBOUND LANE THAT WAS CLOSED IN PHASE 2 STEP A IS OPEN
- 2. ALL LANES ARE OPEN AND RESTORED TO THEIR PRE-CONSTRUCTION LOCATION
- 3. CROSSOVERS SHALL BE PROTECTED USING PORTABLE BARRIER

PHASE 4 STEP A

TRAFFIC:

- 1. ALL RAMPS ARE OPEN
- 2. ONE EASTBOUND LANE IS CLOSED FROM HILLIARD BLVD TO THE WARREN RD ENTRANCE RAMP.
- 3. PATTERN REMAINS UNCHANGED FOR THE TWO OUTSIDE IR 90 WESTBOUND LANES
- 4. CROSSOVER INSIDE IR 90 WESTBOUND LANE TO INSIDE OF IR 90 EASTBOUND SIDE WEST OF LAKEVIEW AVE
- 5. SHIFT IR 90 EASTBOUND LANES TO OUTSIDE OF IR 90 EASTBOUND SIDE BETWEEN WEST OF LAKEVIEW AVE AND EAST OF W 85TH ST
- 6. CROSSOVER INSIDE IR 90 WESTBOUND LANE TO INSIDE OF IR 90 EASTBOUND SIDE WEST OF ALGER RD
- 7. CROSSOVER TWO INSIDE IR 90 WESTBOUND LANES BACK TO IR 90 WESTBOUND SIDE EAST OF W 85TH ST

CONSTRUCTION:

- 1. INSIDE PORTION OF IR 90 WESTBOUND SIDE BETWEEN EAST OF LAKEVIEW AVE AND WEST OF W 85TH ST UP TO INTERMEDIATE COURSE

PHASE 4 STEP B (WILL BE COMPLETED DURING NIGHT TIMES AND WEEKENDS)

TRAFFIC:

- 1. TRAFFIC PATTERN FOR IR 90 EASTBOUND AND WESTBOUND SIDES REMAIN UNCHANGED
- 2. CLOSE CROSSOVER LANE LOCATED WEST OF WOOSTER RD

CONSTRUCTION:

- 1. REMAINING INSIDE PORTION OF IR 90 WESTBOUND SIDE AT CROSSOVER LOCATION WEST OF WOOSTER RD UP TO INTERMEDIATE COURSE

STEPS SEQUENCE DURING PHASE 4:

- STEP B CAN BE COMPLETED ANYTIME DURING STEP A

PHASE 5 STEP A

TRAFFIC:

- 1. ALL RAMPS ARE OPEN
- 2. TRAFFIC PATTERN FOR IR 90 EASTBOUND SIDE REMAINS UNCHANGED
- 3. SHIFT TWO OUTSIDE IR 90 WESTBOUND LANES TO INSIDE OF IR 90 WESTBOUND SIDE BETWEEN WEST OF LAKEVIEW AVE AND EAST OF W 85TH ST
- 4. SHIFT RAMP HB TRAFFIC TO OUTSIDE OF ITS PAVEMENT

CONSTRUCTION:

- 1. OUTSIDE PORTION OF IR 90 WESTBOUND SIDE BETWEEN EAST OF LAKEVIEW AVE AND WEST OF W 85TH ST UP TO INTERMEDIATE COURSE

- 2. INSIDE PORTION OF RAMP HB AND RAMP 117-12

PHASE 5 STEP B

TRAFFIC:

- 1. TRAFFIC PATTERN FOR IR 90 EASTBOUND AND WESTBOUND SIDES REMAINS UNCHANGED
- 2. RAMPS MC, W1A, 117-5, AND 117-11 ARE CLOSED
- 3. SHIFT RAMP HB TRAFFIC TO INSIDE OF ITS PAVEMENT

CONSTRUCTION:

- 1. RAMPS MC, W1A, 117-5, AND 117-11

- 2. OUTSIDE PORTION OF RAMP HB AND RAMP 117-12

PHASE 5 STEP C

TRAFFIC:

- 1. TRAFFIC PATTERN FOR IR 90 EASTBOUND AND WESTBOUND SIDES REMAINS UNCHANGED
- 2. RAMPS MF, W1, 140-3, AND W13 ARE CLOSED

CONSTRUCTION:

- 1. RAMPS MF, W1, 140-3, AND W13

STEP SEQUENCE DURING PHASE 5:

- STEP B CAN BE COMPLETED ANYTIME DURING STEP A
- STEP B MUST BE COMPLETED BEFORE STEP C BEGINS
- STEP C MUST BE COMPLETED AS THE LAST PART OF STEP A

RAMP CONSTRUCTION SEQUENCE DURING PHASE 5:

- RAMPS MF AND W1 MUST BE DONE AS THE LAST PART OF PHASE 5

MOT DRAINAGE CURB REMOVAL

THE CONTRACTOR SHALL REMOVE THE EXISTING OUTSIDE CURB WHERE NECESSARY TO FACILITATE DRAINAGE DURING MOT. ALL WORK SHALL BE IN ACCORDANCE WITH C&MS 202 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS. PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED AT THE UNIT PRICE BID FOR ITEM 202, CURB REMOVAL.

THE FOLLOWING IS A LIST OF LOCATIONS WHERE THE CONTRACTOR IS TO REMOVE THE EXISTING OUTSIDE CURB FOR MOT PHASES 1 AND 2:

REMOVE CURB LOCATIONS (MOT PHASES 1 & 2)					
BEGIN STATION	BEGIN ALIGNMENT	END STATION	END ALIGNMENT	SIDE	NOTES
529+00	CUY-90 EB	539+85	CUY-90 EB	RT	
529+00	CUY-90 WB	535+85	CUY-90 WB	LT	CONTRACTOR TO PROVIDE PROTECTION AT CURB BLUNT END
537+15	CUY-90 WB	542+67	CUY-90 WB	LT	CONTRACTOR TO PROVIDE PROTECTION AT CURB BLUNT END
547+00	CUY-90 WB	574+25	CUY-90 WB	LT	CONTRACTOR TO PROVIDE PROTECTION AT CURB BLUNT END
583+10	CUY-90 EB	587+92	CUY-90 EB	RT	GUARDRAIL TO REMAIN IN PLACE TO HELP PROVIDE PROTECTION FOR BLUNT END
590+70	CUY-90 EB	601+75	CUY-90 EB	RT	GUARDRAIL TO REMAIN IN PLACE TO HELP PROVIDE PROTECTION FOR BLUNT END
602+15	CUY-90 WB	612+85	CUY-90 WB	LT	CONTRACTOR TO PROVIDE PROTECTION AT CURB BLUNT END
602+50	CUY-90 EB	609+63	CUY-90 EB	RT	
5+95	RAMP "ME"	614+60	CUY-90 EB	RT	GUARDRAIL TO REMAIN IN PLACE TO HELP PROVIDE PROTECTION FOR BLUNT END
615+00	CUY-90 WB	617+00	CUY-90 WB	LT	CONTRACTOR TO PROVIDE PROTECTION AT CURB BLUNT END
60+50	RAMP "W2A"	66+50	RAMP "W2A"	RT	ADD TEMP SWALE FROM 60+50 TO 61+50 TO DRAIN TO EX DITCH INLET CONTRACTOR TO PROVIDE TO PROTECTION AT CURB BLUNT END
698+75	CUY-90 WB	714+25	CUY-90 WB	LT	CONTRACTOR TO PROVIDE PROTECTION AT CURB BLUNT END
724+00	CUY-90 EB	730+50	CUY-90 EB	RT	
735+50	CUY-90 EB	739+88	CUY-90 EB	RT	TEMP GRADING TO DRAIN INTO DITCH TO WEST/EX DITCH INLET AT LOW POINT
736+00	CUY-90 WB	743+75	CUY-90 WB	LT	
765+50	CUY-90 WB	770+50	CUY-90 WB	LT	

WINTER PHASE 3

- 1. THE EASTBOUND LANE THAT WAS CLOSED IN PHASE 4 STEP A IS OPEN
- 2. ALL LANES ARE OPEN AND RESTORED TO THEIR PRE-CONSTRUCTION LOCATION
- 3. CROSSOVERS SHALL BE PROTECTED USING PORTABLE BARRIER

PHASE 6

TRAFFIC:

- 1. ALL RAMPS ARE OPEN
- 2. TRAFFIC PATTERN FOR IR 90 EASTBOUND AND WESTBOUND IS IN ITS PERMANENT LOCATION
- 3. SHOULDER CLOSURE PER SCD MT-95.45

CONSTRUCTION:

- 1. MEDIAN BARRIER AT FIRST CROSSOVER WEST OF LAKEVIEW AVE
- 2. MEDIAN BARRIER AT SECOND CROSSOVER WEST OF WOOSTER RD
- 3. MEDIAN BARRIER AND TEMPORARY PAVEMENT REMOVAL AT THIRD CROSSOVER WEST OF ALGER RD
- 4. INSTALL SURFACE COURSE BETWEEN WEST END OF THE PROJECT AND EAST END OF PROJECT
- 5. INSTALL TEMPORARY AND SUBSEQUENTLY PERMANENT PAVEMENT MARKINGS IN PERMANENT LOCATION

MOT DRAINAGE TEMPORARY FILTER SOCK, FILTER FENCE, OR TEMPORARY STORAGE DITCHES

THE CONTRACTOR SHALL INSTALL TEMPORARY FILTER SOCK, FILTER FENCE, OR TEMPORARY STORAGE DITCHES BEHIND THE CURB TO SLOW THE SURFACE RUNOFF FROM THE SLOPE, OVER THE CURB, INTO THE ROADWAY DURING MOT PHASES 1 AND 2. INSTALLATION OF THESE MATERIALS SHOULD BE CONSISTENT WITH THE ODOT TEMPORARY EROSION AND SEDIMENT CONTROL MANUAL AND ALL APPLICABLE SECTIONS OF THE ODOT C&MS. THE INSTALLATION OF THESE MATERIALS SHALL BE INCIDENTAL TO THE LUMP SUM PRICE FOR 614, MAINTAINING TRAFFIC.

THE FOLLOWING IS A LIST OF LOCATIONS WHERE THE CONTRACTOR IS TO PROVIDE TEMPORARY FILTER SOCK, FILTER FENCE, OR TEMPORARY STORAGE DITCHES BEHIND THE CURB FOR MOT PHASES 1 AND 2:

FILTER SOCK, FILTER FENCE, OR TEMP STORAGE DITCH LOCATIONS (MOT PHASES 1 & 2)				
BEGIN STATION	BEGIN ALIGNMENT	END STATION	END ALIGNMENT	SIDE
617+00	CUY-90 WB	36+00	RAMP W1	LT
619+50	CUY-90 EB	620+70	CUY-90 EB	RT
621+25	CUY-90 EB	629+50	RAMP W2	RT
629+50	CUY-90 EB	60+50	CUY-90 EB	RT
639+25	CUY-90 WB	665+00	CUY-90 WB	LT
43+60	RAMP 117-9	749+50	CUY-90 EB	RT
743+65	CUY-90 WB	750+25	CUY-90 WB	LT
759+00	CUY-90 WB	763+75	CUY-90 WB	LT

DESIGN AGENCY

STRUCTUREPOINT

DESIGNER

BER

REVIEWER

VDK 08/09/23

PROJECT ID

76779

SHEET

TOTAL P.0062 | P.1587

ESTIMATED QUANTITIES

Sheet P.0067	Sheet P.0067A	Sheet P.0067B	Sheet P.0068	Sheet P.0069	Sheet P.0070	Sheet P.0071	Sheet P.0072	Sheet P.0073	Sheet P.0074	Sheet P.0075	Sheet P.0076	Sheet P.0077	Sheet P.0078	Sheet P.0079	Sheet P.0080	Sheet P.0081	Sheet P.0082	Sheet P.0083	ITEM	EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
																			441	50101	799	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22	P.0061
																			611	97010	1,332	FT	SLOTTED DRAIN, TYPE 2, 15"	
	3	6	5				9	4	1		3			9	3	1	2	6	614	12380	52	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
	1831	1647	1945	429			390	127			1421	364		598	78	88	27		614	12801	8,945	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	P.0060
	61	280	2678		356	40	389	333	169	113	1747		12	355	619	188	88	76	614	13310	7,504	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
	61	280	16952		356	40	389	333	169	113	503		12	355	97	188	88	76	614	13350	20,012	EACH	OBJECT MARKER, ONE WAY	
				6289	6337			2474				4183			1528				614	18030	20,811	FT	MAINTAINING TRAFFIC, MISC.: TROUGH	P.0063
	4.26	14.12	20.51	1.92		0.82	1.93				26.97	19.1			4.94				614	20056	121.54	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
		26.97									26.97								614	20110	80.91	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
	6.43	0.53	29.64	3.08		0.91	10.26	1.26	1.54		24.77	29.33		0.16	10.88	1.6	1.68		614	22056	146.63	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
		24.08									24.08								614	22110	72.24	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
	20315	13657	16032	8579		100	6100	2535	843	20147	11604	7287			7603	1916	1768		614	23110	139,163	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
		20147								20147									614	23210	60,441	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 6", 642 PAINT	
	20315	5096	7360	8717		835	5408	2925	1264	16317	9933	1053	760	5141	999				614	24102	102,440	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
		16317								16317									614	24202	48,951	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT	
			212																614	25000	212	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	
	20082		2073	2374															615	20000	28,389	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
			31030								31090								622	41011	62,120	FT	PORTABLE BARRIER, 50", AS PER PLAN	P.0057
			1			2					1			1	1	1			622	41060	7	EACH	DUAL PORTABLE BARRIER TRANSITION/TERMINATION	P.0064
	2929	13923	35132			755	15015	3564	8432	5635	22550		605	13267	3790	8185	5000		622	41100	142,602	FT	PORTABLE BARRIER, UNANCHORED	
			1600			1226	4442	200			2420			4468	1040	1235			622	41111	16,631	FT	PORTABLE BARRIER, ANCHORED, AS PER PLAN	P.0057
		757.4									311.4								617	11100	1,069	TON	COMPACTED AGGREGATE	
		2389									983								617	20000	3,372	SY	SHOULDER PREPARATION	

MAINTENANCE OF TRAFFIC SUB-SUMMARY

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0066 P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	PHASE	STEP	611	614	614	614	614	614	614	614	614	614	615	622	622	622	622		
			FT	EACH				EACH	EACH	EACH	FT	MILE	MILE	MILE	FT	FT	FT	SY	FT	EACH	FT	FT		
	WCH-1	IR 90	323+50.00	338+76.00	RT-LT	2	A																	
	WCH-2	IR 90	329+23.00	341+76.00	LT	2	A																	
	WYL-1	IR 90	332+23.00	821+14.00	LT-RT	2	A										11.94							
	PB-1	IR 90	334+37.00	816+83.00	LT	2	A																	
	WEL-1	IR 90	335+83.00	543+00.00	LT	2	A																	
	ATT-1	IR 90	337+86.00		CL	2	A																	
	WEL-2	IR 90	338+76.00	636+75.00	LT	2	A																	
	WYL-2	IR 90	337+86.00	632+83.00	RT	2	A																	
	WCH-3	IR 90	339+33.00	352+10.00	RT	2	A																	
	WLL-1	IR 90	341+76.00	630+11.00	LT	2	A																	
	WEL-3	IR 90	344+10.00	539+90.00	RT	2	A																	
	ATT-2	IR 90	348+65.00		LT	2	A																	
	PB-2	IR 90	348+65.00	636+60.00	LT-RT	2	A																	
	WLL-2	IR 90	352+10.00	538+10.00	RT	2	A																	
	WYL-3	RAMP HA	36+61.00	40+70.00	LT	2	A																	
	ATT-3	IR 90	351+32.00		RT	2	A																	
	WCH-4	IR 90	538+10.00	548+61.00	RT	2	A																	
	WEL-4	RAMP HA - RAMP MD	39+12.00	89+87.00	RT	2	A																	
	WCH-5	IR 90	543+00.00	545+10.00	LT	2	A																	
	WLL-3	IR 90	548+61.00	624+65.00	RT	2	A																	
	WDL-1	IR 90	544+61.00	557+40.00	RT	2	A																	
	WEL-5	IR 90	548+23.00	590+26.00	LT	2	A																	
	WDL-2	IR 90	583+00.00	593+52.00	LT	2	A																	
	WDL-3	IR 90	584+36.00	589+41.00	RT	2	A																	
	WCH-6	IR 90	589+41.00	590+19.00	RT	2	A																	
	WEL-6	IR 90	590+19.00	608+95.00	RT	2	A																	
	WCH-7	IR 91	593+52.00	595+47.00	LT	2	A																	
	WEL-7	IR 90	595+47.00	612+88.00	LT	2	A																	
	WCH-8	IR 90	608+95.00	612+06.00	RT	2	A																	
	WDL-4	IR 90	612+06.00	627+92.00	RT	2	A																	
	WCH-9	IR 90	612+88.00	614+11.00	LT	2	A																	
	WDL-5	IR 90	614+11.00	629+09.00	LT	2	A																	
	WEL-8	IR 90	614+49.00	627+06.00	LT	2	A																	
	WEL-9	IR 90	615+00.00	628+02.00	LT	2	A																	
	WCH-10	IR 90	627+92.00	628+70.00	RT	2	A																	
	WEL-10	IR 90 - BK 151	628+70.00	35+50.00	RT	2	A																	
	WCH-11	IR 90	630+11.00	643+00.00	LT	2	A																	
	WCH-12	IR 90	624+65.00	643+29.00	RT-LT	2	A																	
	WGM-	IR 90	634+66.00	637+56.00	RT	2	A																	
	ATT-4	IR 90	637+19.00		RT	2	A																	
	PB-3	IR 90	637+19.00	771+80.00	RT-LT	2	A																	
	ATT-5	IR 90	660+80.00		LT	2	A																	
	TP-1	IR 90	639+00.00	670+22.00	LT	2	A																	
	WYL-4	IR 90 EB - IR 90	37+56.00	817+04.00	RT	2	A																	
	WLL-4	IR 90	643+00.00	809+96.00	LT	2	A																	
	WCH-13	IR 90	666+00.00	666+76.00	LT	2	A																	
	WEL-12	IR 90 EB - IR 90	70+80.00	682+80.00	RT	2	A																	
	WEL-11	IR 90	636+75.00	666+00.00	L	2	A																	
	WDL-6	IR 90	666+76.00	670+36.00	LT-RT	2	A																	
	WEL-13	IR 90	670+36.00	681+75.00	LT	2	A																	
	WCH-14	IR 90	681+75.00	682+90.00	LT	2	A																	
	WEL-14	RAMP 140-3 - RAMP 117-5	82+74.00	30+00.00	LT	2	A																	
	WDL-7	IR 90	682+90.00	689+69.00	LT	2	A																	
	WEL-25	IR 90	637+56.00	817+04.00		2																		
TOTALS CARRIED TO SHEET P.0066									5	1945	1976	16250		20.51	10.70	18.94	16032	7360	212	2073	31030	1	35132	1600

MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0068 P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	PHASE	STEP	611	614	614	614	614	614	614	614	614	614	615	622	622	622	622			
			FT	EACH				EACH	EACH	EACH	FT	MILE	MILE	MILE	FT	FT	FT	SY	FT	EACH	FT	FT			
	WCH-1	IR 90	342+33.00	350+21.00	RT	3	A			39							788								
	WEL-1	IR 90	342+33.00	558+00.00	RT	3	A							0.79											
	WYL-1	IR 90	342+33.00	635+66.00	RT	3	A								2.26										
	WLL-1	IR 90	350+21.00	626+33.00	RT	3	A						1.93												
	ATT-1	IR 90	351+27.00		RT	3	A		1																
	PB-1	IR 90	351+27.00	556+14.00	RT	3	A				61	61											3070		
	ATT-2	RAMP HA	33+30.00		RT	3	A		1																
	PB-2	RAMP HA - IR 90	33+30.00	556+15.00	LT-RT	3	A																	2310	
	WYL-2	RAMP HA - IR 90	33+30.00	558+00.00	LT-RT	3	A								0.47										
	WEL-2	RAMP HA - RAMP MD	33+30.00	92+21.00	LT	3	A						1.12												
	WCH-2	IR 90	558+00.00	561+45.00	LT	3	A			35							690								
	WDL-1	IR 90	561+45.00	576+80.00	LT	3	A											1536							
	ATT-3	IR 90	571+35.00		LT	3	A		1																
	PB-3	IR 90	569+30.00	584+22.00	LT	3	A				30	30											1490		
	WDL-2	IR 90	583+72.00	587+88.00	LT	3	A											416							
	WCH-3	IR 90 - RAMP MD	587+88.00	90+18.00	RT-LT	3	A			22							443								
	ATT-4	IR 90	588+84.00		RT	3	A		1													1			
	PB-4	IR 90	588+84.00	609+83.00	RT	3	A				48	48											2388		
	WYL-3	RAMP MD	90+18.00	91+72.00	RT	3	A								0.03										
	WEL-3	IR 90	590+00.00	610+20.00	RT	3	A							0.38											
	WEL-4	RAMP ME - RAMP W2	5+93.00	29+90.00	LT	3	A							0.45											
	WYL-4	RAMP ME	9+13.00	10+42.00	LT	3	A								0.02										
	WCH-4	RAMP ME - IR 90	10+42.00	612+94.00	LT-RT	3	A			26							515								
	ATT-5	IR 90	612+81.00		RT	3	A		1																
	PB-5	IR 90 - RAMP W2	612+81.00	4+47.00	RT	3	A																	1482	
	WDL-3	IR 90	612+94.00	625+61.00	RT	3	A											1469							
	WCH-5	IR 90	625+61.00	628+80.00	RT	3	A			26							516								
	ATT-6	IR 90	627+45.00		RT	3	A		1													1			
	PB-6	IR 90	627+45.00	665+61.00	RT	3	A				80	80											4011		
	WCH-6	IR 90	626+33.00	638+17.00	RT	3	A			79							1584								
	WYL-5	RAMP W2	27+54.00	29+49.00	LT	3	A								0.04										
	WEL-4	IR 90	628+80.00	667+00.00	RT	3	A							0.72											
	WYL-6	IR 90	638+17.00	774+01.00	RT	3	A								2.57										
	WEL-5	RAMP W2A - IR 90	61+94.00	684+75.00	LT-RT	3	A							0.43											
	ATT-6A	RAMP W2A - IR 90	63+17.00		LT	3	A		1																
	PB-6A	RAMP W2A - IR 90	63+17.00	65+62.00	LT	3	A				5	5											245		
	WYL-7	RAMP W2A - IR 90 EB	64+45.00	67+10.00	LT	3	A								0.05										
	WCH-7	IR 90 EB	67+00.00	70+24.00	LT	3	A										638								
	ATT-7	IR 90 EB	69+83.00		LT	3	A		1	32															
	PB-7	IR 90 EB - IR 90	69+83.00	682+89.00	LT-RT	3	A				13	13											656	650	
	WDL-4	IR 90 EB - IR 90	70+24.00	681+90.00	LT-RT	3	A											1166							
	WEL-8	RAMP 140-4 - RAMP 117-8	78+80.00	25+16.00	LT	3	A							0.89											
	WYL-8	RAMP 140-4 - IR 90	82+95.00	684+75.00	LT-RT	3	A								0.04										
	WCH-8	IR 90	684+75.00	689+38.00	RT	3	A			46							926								
	WDL-5	IR 90	689+38.00	697+58.00	RT	3	A											821							
	ATT-8	IR 90	689+55.00		RT	3	A		1																
	PB-8	IR 90	689+55.00	721+10.00	RT	3	A				63	63											3155		
TOTALS CARRIED TO SHEET P.0066									9	390	300	300		1.93	4.78	5.48	6100	5408			2	15015	4442		

MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0072 P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	PHASE	STEP	611	614	614	614	614	614	614	614	614	614	615	622	622	622	622			
			FT	EACH				EACH	EACH	EACH	FT	MILE	MILE	MILE	FT	FT	FT	SY	FT	EACH	FT	FT			
	WDL-6	IR 90	716+00.00	721+65.00	RT	3	A																		
	WCH-9	IR 90	721+65.00	723+20.00	RT	3	A																		
	WEL-7	IR 90	723+20.00	731+50.00	RT	3	A																		
	ATT-9	IR 90	722+80.00		RT	3	A																		
	PB-9	IR 90	722+80.00	730+50.00	RT	3	A																		
	WYL-9	RAMP 117-7	29+20.00	30+20.00	LT	3	A																		
	WEL-8	RAMP 117-7 - IR 90	30+20.00	740+90.00	LT/RT	3	A																		
	WCH-10	IR 90	731+50.00	732+55.00	RT	3	A																		
	ATT-10	IR 90	734+18.00		RT	3	A																		
	WDL-7	IR 90	732+55.00	740+90.00	RT	3	A																		
	PB-10	IR 90	734+18.00	739+82.00	RT	3	A																		
	WEL-9	RAMP 117-9 - RAMP W14	37+47.00	64+55.00	LT	3	A																		
	WYL-10	RAMP 117-9	39+47.00	41+69.00	LT	3	A																		
	WCH-11	IR 90	740+90.00	743+84.00	RT	3	A																		
	ATT-11	RAMP 117-9	43+16.00		LT	3	A																		
	PB-11	RAMP 117-9 - IR 90	43+16.00	758+85.00	LT/RT	3	A																		
	WDL-8	IR 90	743+84.00	759+04.00	RT	3	A																		
	WCH-12	IR 90	759+04.00	760+47.00	RT	3	A																		
	WEL-10	IR 90	760+47.00	774+01.00	RT	3	A																		
	WYL-11	RAMP W14	60+96.00	64+55.00	LT	3	A																		
	ATT-12	IR 90	761+40.00		RT	3	A																		
	PB-12	IR 90	761+40.00	769+87.00	RT	3	A																		
	WCH-13	IR 90	765+10.00	774+01.00	RT	3	A																		
		IR 90			LT	3	A																		
	TD-49	IR 90	354+17.00	529+87.00	RT	3	A																		
	TD-50	IR 90	530+63.00	530+75.00	RT	3	A																		
	TD-51	IR 90	531+51.00	533+68.00	RT	3	A																		
	TD-52	IR 90	536+65.00	538+53.00	RT	3	A																		
	TD-53	IR 90	542+00.00	544+75.00	RT	3	A																		
	TD-54	IR 90	547+65.00	550+24.00	RT	3	A																		
	TD-55	IR 90	553+75.00	556+34.00	RT	3	A																		
	TD-56	IR 90	574+00.00	575+30.00	RT	3	A																		
	TD-57	IR 90	600+50.00	600+90.00	RT	3	A																		
	TD-58	IR 90	603+76.00	604+82.00	RT	3	A																		
	TD-59	IR 90	610+49.00	611+75.00	RT	3	A																		
	TD-60	IR 90	616+06.00	616+66.00	RT	3	A																		
	TD-61	IR 90	617+28.00	617+82.00	RT	3	A																		
	TD-62	IR 90	621+86.00	625+19.00	RT	3	A																		
	TD-63	IR 90	629+50.00	631+13.00	RT	3	A																		
	TD-64	NOT USED																							
TOTALS CARRIED TO SHEET P.0066									4	127	329	329	2474		1.13	0.13	2535	2925							

MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

DESIGN AGENCY	STRUCTUREPOINT <small>INC.</small>
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0073 P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	PHASE	STEP	611	614	614	614	614	614	614	614	614	614	615	622	622	622	622			
			FT	EACH				EACH	EACH	EACH	FT	MILE	MILE	MILE	FT	FT	FT	SY	FT	EACH	FT	FT			
	WCH-1	IR 90	332+89.00	341+00.00	LT/RT	4	A			107															
	WYL-1	IR 90	332+89.00	821+14.00	LT/RT	4	A									11.88									
	PB-1	IR 90	334+30.00	817+34.00	RT/LT	4	A																		
	WEL-1	IR 90	335+89.00	540+44.00	RT	4	A																		
	WEL-2	IR 90	338+00.00	543+25.00	RT	4	A																		
	WYL-2	IR 90	338+76.00	543+00.00	LT	4	A																		
	WLL-1	IR 90	341+00.00	540+44.00	RT	4	A																		
	PB-2	IR 90	353+12.00	541+62.00	LT	4	A			42						0.96									
	WCH-2	IR 90	536+58.00	542+68.00	LT/RT	4	A			63															
	WYL-3	RAMP HA	33+00.00	40+44.00	LT	4	A																		
	WATT-1	IR 90	541+62.00		LT	4	A																		
	WEL-3	RAMP HA	33+00.00	34+20.00	LT	4	A																		
	WDL-1	RAMP HA	34+20.00	35+00.00	LT	4	A																		
	WEL-4	RAMP HA - RAMP MD	35+00.00	89+22.00	LT/RT	4	A																		
	WCH-3	IR 90	540+44.00	549+44.00	RT	4	A			107															
	WDL-2	IR 90	542+15.00	557+00.00	RT	4	A																		
	WCH-4	IR 90	543+25.00	556+44.00	LT/RT	4	A			75															
	WYL-4	IR 90	542+68.00	817+23.00	LT	4	A																		
	PB-3	IR 90	545+90.00	776+68.00	LT	4	A			1															
	WEL-5	IR 90	543+05.00	817+23.00	RT	4	A																		
	WCH-5	IR 90	547+66.00	553+24.00	LT	4	A			28															
	WLL-2	IR 90	549+44.00	808+90.00	RT	4	A			798															
	WDL-4	IR 90	584+36.00	589+22.00	RT	4	A																		
	WCH-5	IR 90	589+22.00	590+50.00	RT	4	A			13															
	WEL-6	IR 90	590+50.00	610+20.00	RT	4	A																		
	WCH-6	IR 90	610+20.00	613+52.00	RT	4	A			33															
	WDL-5	IR 90	613+52.00	627+47.00	RT	4	A																		
	WEL-7	IR 90	616+45.00	626+40.00	RT	4	A																		
	WCH-7	IR 90	627+47.00	629+42.00	RT	4	A																		
	WDL-6	IR 90 - IR 90 EB	633+29.00	41+15.00	RT	4	A			20															
	WEL-8	IR 90 - IR 90 EB	629+42.00	62+88.00	RT-LT	4	A																		
	PB-4	IR 90	636+80.00	639+70.00	RT	4	A																		
	ATT-2	IR 90	639+70.00		RT	4	A																		
	WCH-9	IR 90 EB	62+88.00	65+74.00	LT	4	A			29															
	WEL-9	RAMP W2A - IR 90	63+00.00	681+00.00	LT-RT	4	A																		
	WDL-7	IR 90 EB	65+74.00	77+00.00	RT	4	A																		
	WEL-10	RAMP 104-4 - RAMP 117-8	82+00.00	23+19.00	RT	4	A																		
	WCH-10	IR 90	681+00.00	683+83.00	RT	4	A			28															
	WDL-8	IR 90	683+83.00	693+03.00	RT	4	A																		
	WDL-9	IR 90	715+27.00	722+91.00	RT	4	A																		
	WCH-11	IR 90	722+91.00	724+04.00	RT	4	A			11															
	WEL-11	IR 90	724+04.00	730+44.00	RT	4	A																		
	WEL-12	RAMP 117-7 - IR 90	30+00.00	739+70.00	RT	4	A																		
	WCH-12	IR 90	730+44.00	732+60.00	RT	4	A			22															
	WDL-1	IR 90	732+60.00	741+10.00	RT	4	A																		
	WCH-13	IR 90	739+70.00	742+55.00	RT	4	A			29															
	WDL-1	IR 90	742+55.00	760+90.00	RT	4	A																		
	WEL-13	IR 90	744+50.00	760+90.00	RT	4	A																		
	WCH-14	IR 90	760+90.00	762+56.00	RT	4	A																		
	WEL-14	IR 90	762+56.00	792+60.00	RT	4	A																		
	WEL-15	RAMP 98-16 - IR 90	88+00.00	815+39.00	RT	4	A																		
TOTALS CARRIED TO SHEET P.0066									3	1421	1719	475		19.1	11.50	17.83	11604	9933		31090	1	22550	2420		

MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

DESIGN AGENCY AMERICAN STRUCTUREPOINT INC.
DESIGNER BER
REVIEWER VDK 08/09/23
PROJECT ID 76779
SHEET TOTAL P.0076 P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	PHASE	STEP	611	614	614	614	614	614	614	614	614	614	615	622	622	622	622	
			SLOTTED DRAIN, TYPE 2	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)				WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	BARRIER REFLECTOR, TYPE 1	OBJECT MARKER, ONE WAY	MAINTAINING TRAFFIC, MISC.: TROUGH	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	PORTABLE BARRIER, 50", AS PER PLAN	DUAL PORTABLE BARRIER TRANSITION/TERMINATION	PORTABLE BARRIER, UNANCHORED	PORTABLE BARRIER, ANCHORED, AS PER PLAN		
			FROM	TO																			
			FT	EACH	EACH	EACH	EACH	FT	MILE	MILE	MILE	FT	FT	FT	SY	FT	EACH	FT	FT				
	WCH-1	IR 90	328+86.00	340+30.00	LT	5	A																
	WEL-1	IR 90	332+91.00	558+14.00	LT	5	A																
	WYL-1	IR 90	337+30.00	542+16.00	LT	5	A																
	WLL-1	IR 90	340+30.00	539+30.00	LT	5	A																
	PB-1	IR 90 - RAMP HB	353+12.00	46+95.00	LT-RT	5	A																
	PB-2	RAMP HB	30+95.00	46+95.00	RT	5	A																
	WYL-2	RAMP HB - IR 90	30+95.00	558+14.00	RT/LT	5	A																
	WEL-2	RAMP HB - RAMP MC	30+95.00	97+82.00	LT-RT	5	A																
	WCH-2	IR 90	539+30.00	545+00.00	LT	5	A																
	ATT-1	IR 90	540+00.00		CL	5	A																
	ATT-2	RAMP HB	46+95.00		RT	5	A																
	WDL-1	IR 90	545+00.00	551+60.00	LT	5	A																
	WYL-3	IR 90	545+00.00	786+27.00	LT	5	A																
	WLL-2	IR 90	551+60.00	787+47.00	LT	5	A																
	WCH-3	IR 90	558+14.00	561+86.00	LT	5	A																
	PB-3	IR 90	562+26.00	588+25.00	LT	5	A																
	WDL-2	IR 90	582+73.00	591+91.00	LT	5	A																
	ATT-3	IR 90	588+25.00		LT	5	A																
	WCH-3	IR 90 - RAMP MC	591+91.00	95+82.00	RT-LT	5	A																
	PB-4	IR 90	595+00.00	613+76.00	LT	5	A																
	WEL-3	IR 90	595+50.00	613+00.00	LT	5	A																
	WYL-3	RAMP MF	12+03.00	13+74.00	RT	5	A																
	WEL-4	RAMP MF - RAMP W1	12+03.00	35+60.00	RT	5	A																
	WCH-4	IR 90	613+00.00	616+44.00	LT	5	A																
	ATT-3	IR 90	613+76.00		LT	5	A																
	WDL-3	IR 90	616+44.00	627+95.00	LT	5	A																
	PB-5	IR 90	615+99.00	627+62.00	LT	5	A																
	ATT-4	IR 90	627+62.00		LT	5	A																
	WCH-5	IR 90	627+95.00	634+50.00	LT	5	A																
	WEL-5	IR 90 - IR 90 WB	634+50.00	66+06.00	LT	5	A																
	PB-6	IR 90	636+25.00	666+50.00	LT	5	A																
	WYL-4	RAMP W1A - IR 90 WB	63+50.00	66+06.00	RT-LT	5	A																
	WEL-6	RAMP W1A - IR 90	64+22.00	681+85.00	RT-LT	5	A																
	WCH-7	IR 90	666+06.00	668+10.00	LT	5	A																
	ATT-5	IR 90	666+50.00		LT	5	A																
	WDL-4	IR 90	668+10.00	672+32.00	LT	5	A																
	PB-7	IR 90	671+94.00	682+54.00	LT	5	A																
	WYL-5	RAMP 140-3	80+34.00	81+85.00	RT	5	A																
	WEL-7	RAMP 140-3 - RAMP 117-5	80+84.00	26+80.00	RT	5	A																
	WCH-8	IR 90	681+85.00	683+79.00	LT	5	A																
	ATT-6	IR 90	682+54.00		LT	5	A																
	WDL-5	IR 90	683+79.00	688+20.00	LT	5	A																
	PB-8	IR 90	685+69.00	720+76.00	LT	5	A																
	WDL-6	IR 90	714+60.00	722+06.00	LT	5	A																
	ATT-7	IR 90	720+76.00		LT	5	A																
	WCH-9	IR 90	722+06.00	724+88.00	LT	5	A																
	WEL-8	IR 90 - RAMP 117-11	724+88.00	37+08.00	RT/LT	5	A																
	WYL-6	IR 90	724+88.00	727+50.00	LT	5	A																
	WDL-7	IR 90	724+88.00	732+91.00	RT	5	A																
	PB-9	IR 90	726+98.00	733+23.00	LT	5	A																
	ATT-8	IR 90	733+23.00		LT	5	A																
TOTALS CARRIED TO SHEET P.0066								9	598	265	265			4.94	5.06	5.82	7603	5141			1	13267	4468

MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0079 P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	PHASE	STEP	611	614	614	614	614	614	614	614	614	614	615	622	622	622	622			
			611	614				614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622
			FROM	TO				FT	EACH	EACH	EACH	EACH	EACH	FT	MILE	MILE	MILE	FT	FT	FT	SY	FT	EACH	FT	FT
	WCH-10	IR 90	732+91.00	736+02.00	LT	5	A										569								
	PB-10	IR 90	736+02.00	748+30.00	LT	5	A			28	24	24											1	1220	
	WEL-9	IR 90	736+02.00	748+65.00	LT	5	A							0.24											
	ATT-9	IR 90	748+30.00		LT	5	A		1																
	PB-11	RAMP 117-12 - IR 90	33+64.00	748+30.00	RT/LT	5	A				9	9											430	1040	
	WCH-11	IR 90	748+65.00	750+44.00	LT	5	A										358								
	WYL-7	RAMP 117-12 - IR 90	33+64.00	748+65.00	RT/LT	5	A										0.29								
	WEL-10	RAMP 117-12 - RAMP W13	33+64.00	67+90.00	RT	5	A						0.65												
	WDL-8	IR 90	750+44.00	760+43.00	LT	5	A											999							
	PB-12	IR 90	750+48.00	761+42.00	LT	5	A				22	22											1090		
	WCH-12	IR 90	760+43.00	765+38.00	LT	5	A			49							989								
	ATT-10	IR 90	761+42.00		LT	5	A		1																
	PB-13	IR 90	765+38.00	775+86.00	LT	5	A				21	21											1050		
	ATT-11	IR 90	775+86.00		LT	5	A		1																
	WEL-11	IR 90	765+38.00	787+47.00	LT	5	A								0.42										
		IR 90			RT/LT	5	A				522														
	TD-106	IR 90	353+77.00	529+87.00	LT	5	A																		
	TD-107	IR 90	530+62.00	530+86.00	LT	5	A							190											
	TD-108	IR 90	531+51.00	544+19.00	LT	5	A							24											
	TD-109	IR 90	536+50.00	542+00.00	LT	5	A							259											
	TD-110	IR 90	553+67.00	553+75.00	LT	5	A							550											
	TD-111	IR 90	571+57.00	574+00.00	LT	5	A							8											
	TD-112	IR 90	590+00.00	590+50.00	LT	5	A							243											
	TD-113	IR 90	600+67.00	600+90.00	LT	5	A							50											
	TD-114	IR 90	617+28.00	619+09.00	LT	5	A							23											
														181											
TOTALS CARRIED TO SHEET P.0066										3	78	598	76	1528		1.07	0.53	1916	999				1	3790	1040

MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

DESIGN AGENCY	STRUCTUREPOINT <small>INC.</small>
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0080 P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	PHASE	STEP	611	614	614	614	614	614	614	614	614	614	615	622	622	622	622				
			611	614				614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	622	622
			FROM	TO				FT	EACH	EACH	EACH	EACH	EACH	FT	MILE	MILE	MILE	MILE	FT	FT	FT	SY	FT	EACH	FT	FT
	PB-1	RAMP HB - IR 90	30+98.00	563+50.00	RT/LT	5	B					65	65												3260	
	WYL-1	RAMP HB	30+98.00	42+91.00	RT	5	B										0.23									
	WEL-1	RAMP HB - IR 90	30+98.00	548+46.00	RT/LT	5	B								0.33											
	PB-2	IR 90	543+00.00	544+60.00	RT	5	B																	1	160	160
	WCH-1	RAMP HB - IR 90	42+91.00	553+25.00	RT/LT	5	B			68																
	ATT-1	IR 90	544+60.00		RT	5	B		1																	
	WEL-2	IR 90	582+73.00	591+91.00	RT	5	B										0.18									
	PB-3	IR 90	582+73.00	595+00.00	RT	5	B					25	25												1230	
	PB-4	IR 90 WB - IR 90	65+29.00	672+32.00	LT-RT	5	B					14	14												710	
	WEL-3	IR 90	668+10.00	672+32.00	LT	5	B										0.08									
	PB-5	IR 90	714+71.00	736+02.00	LT	5	B					43	43												2130	
	WEL-4	IR 90	714+71.00	732+91.00	LT	5	B										0.34								420	
	PB-6	R 117-12	33+64.00	37+84.00	RT	5	B					8	8													
	WYL-2	R 117-12	33+64.00	43+77.00	RT	5	B											0.19								
	WEL-5	R 117-12 - IR 90	33+64.00	751+05.00	RT/LT	5	B								0.33											
	PB-7	R 117-12 - IR 90	37+75.00	751+05.00	RT/LT	5	B					6	6												275	1075
	WCH-2	R 117-12 - IR 91	43+77.00	747+90.00	RT/LT	5	B			21																
TOTALS CARRIED TO SHEET P.0066										1	88	164	164			1.26	0.42	1768						1	8185	1235

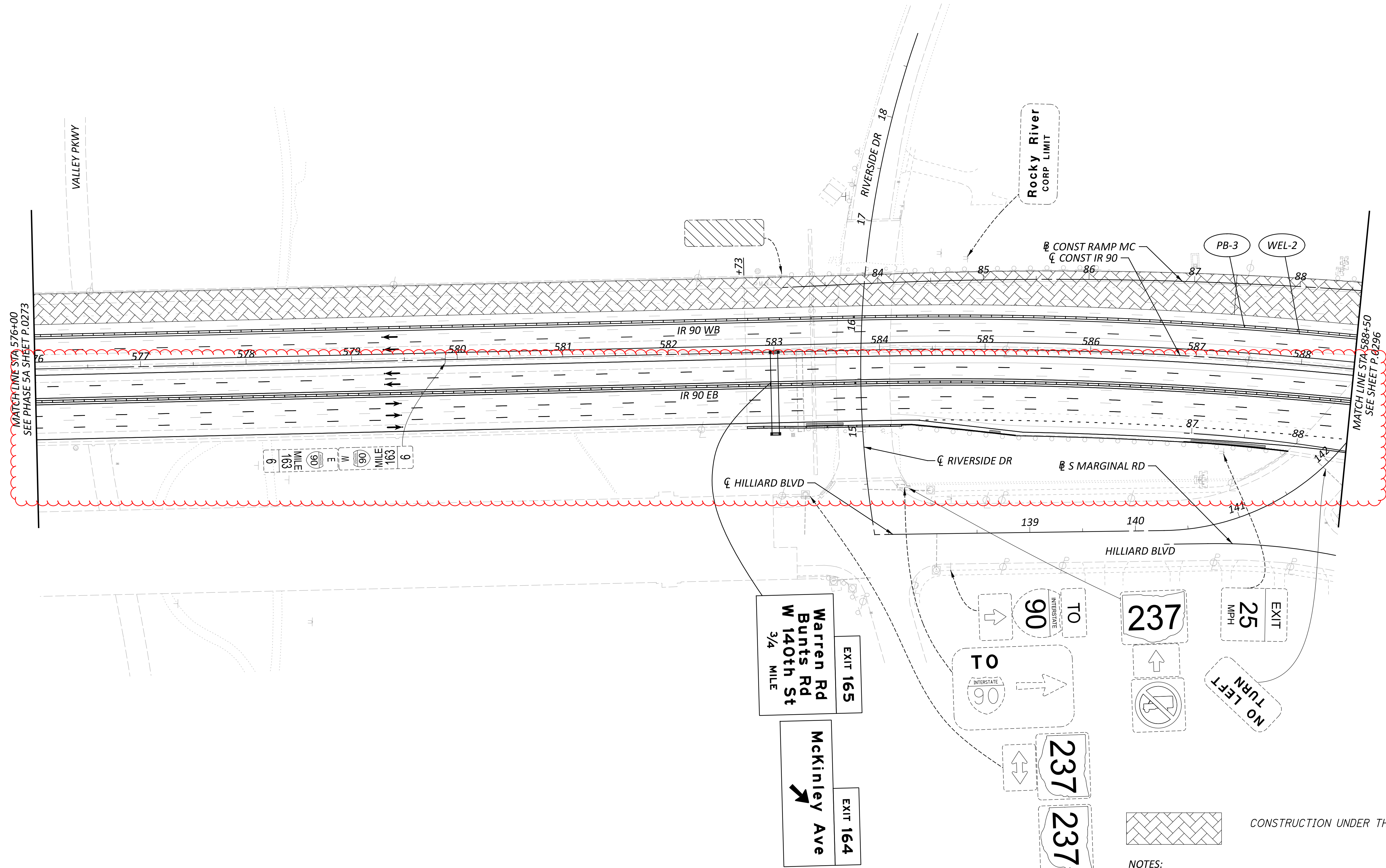
MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

DESIGN AGENCY	
AMERICAN STRUCTUREPOINT INC.	
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0081 P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	PHASE	STEP	611	614	614	614	614	614	614	622	614	614	614	614	614
			611	614				614	614	614	614	614	614	614	614	614	614	614	614	614
			FROM	TO																
			FT	EACH	EACH	EACH	EACH	EACH	MILE	FT		FT		FT	MILE	MILE	MILE	FT	FT	
	PB-1	IR 90	612+40.00	636+25.00	LT	5	C							2590						
	WEL-1	IR 90	616+43.00	627+95.00	LT	5	C		0.26											
	PB-2	IR-90	681+50.00	688+20.00	LT	5	C							670						
	WEL-2	IR 90	683+80.00	688+20.00	LT	5	C		0.08											
	PB-3	IR 90	743+13.00	744+48.00	LT	5	C							140						
	ATT-3	IR 90	744+48.00		LT	5	C			1										
	WEL-3	R 117-12 - IR 90	44+24.00	750+50.00	LT	5	C		0.12											
	WCH-1	R 117-12 - IR 90	45+24.00	750+50.00	LT	5	C					530								
	WEL-4	IR 90	759+90.00	760+90.00	LT	5	C		0.02											
	PB-4	IR 90	759+90.00	765+38.00	LT	5	C			1				1600						
	IR 90 WINTER MONTHS		BEGIN	END	LT-RT	5	C								12.04	12.04	26.97	20147	16317	
TOTALS CARRIED TO SHEET P.0066																				
									0.48	530				5000	12.04	12.04	26.97	20147	16317	

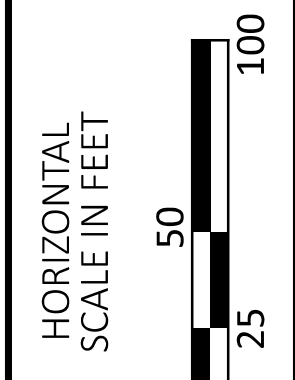
MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0082 P.1587



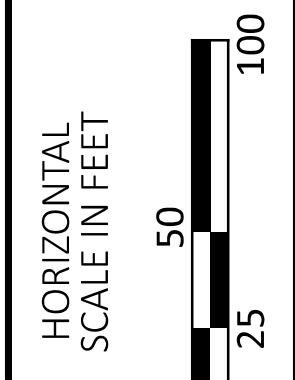
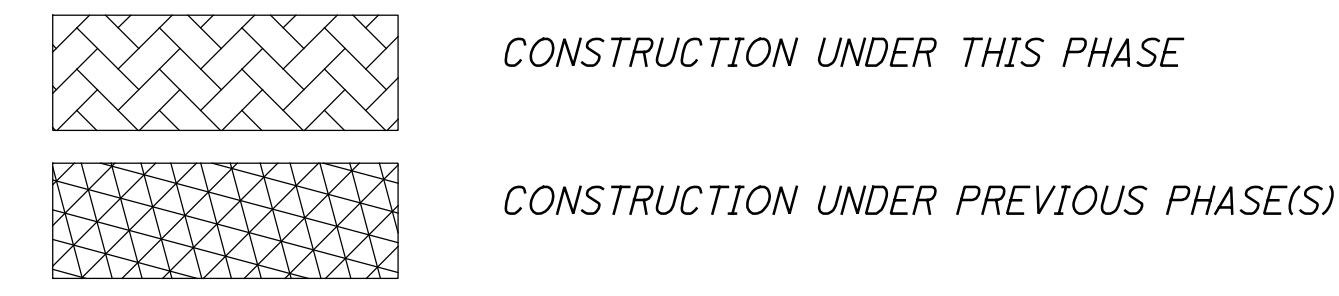
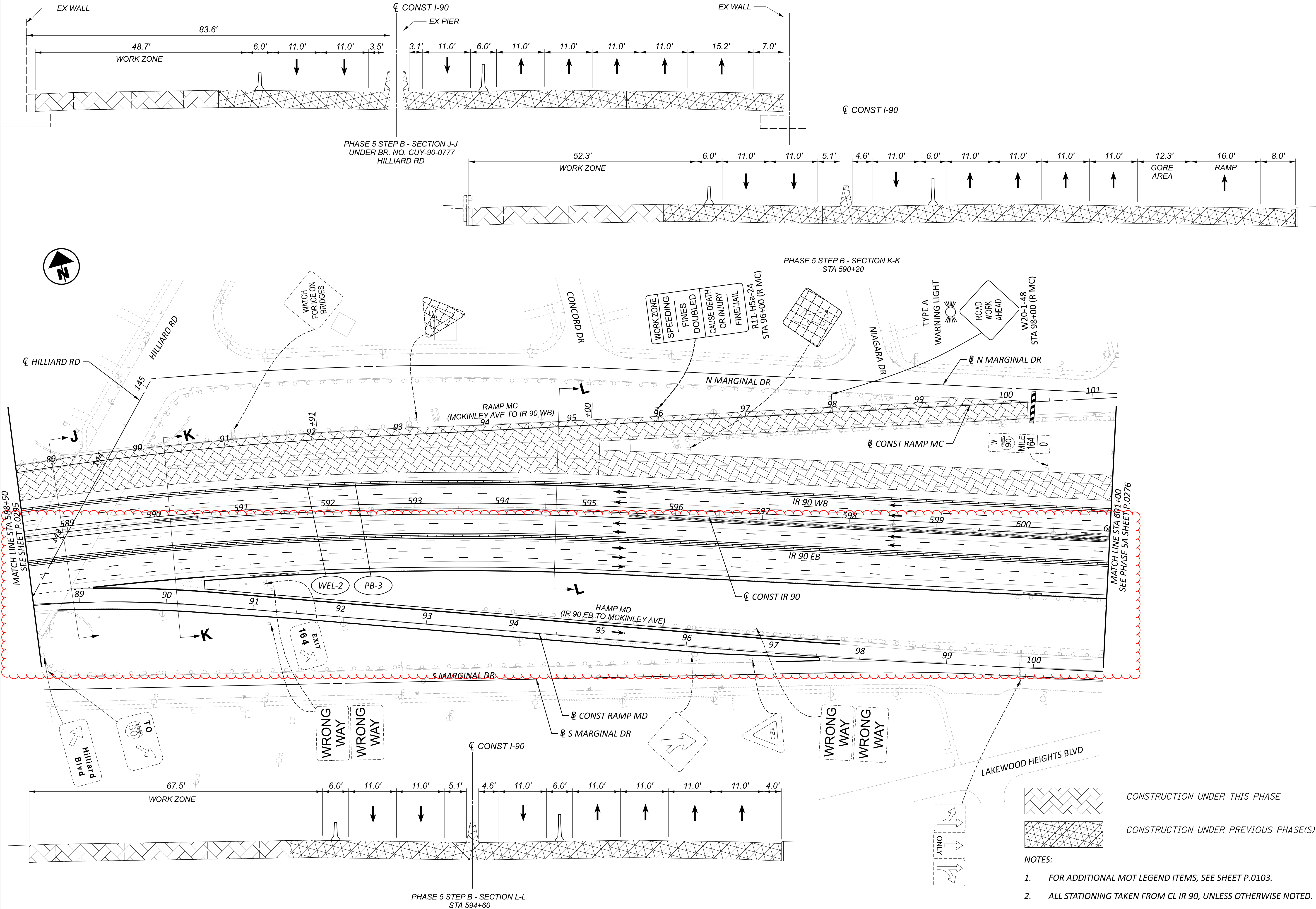
 CONSTRUCTION UNDER THIS PHASE

- NOTES:
- FOR ADDITIONAL MOT LEGEND ITEMS, SEE SHEET P.0103.
 - ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.



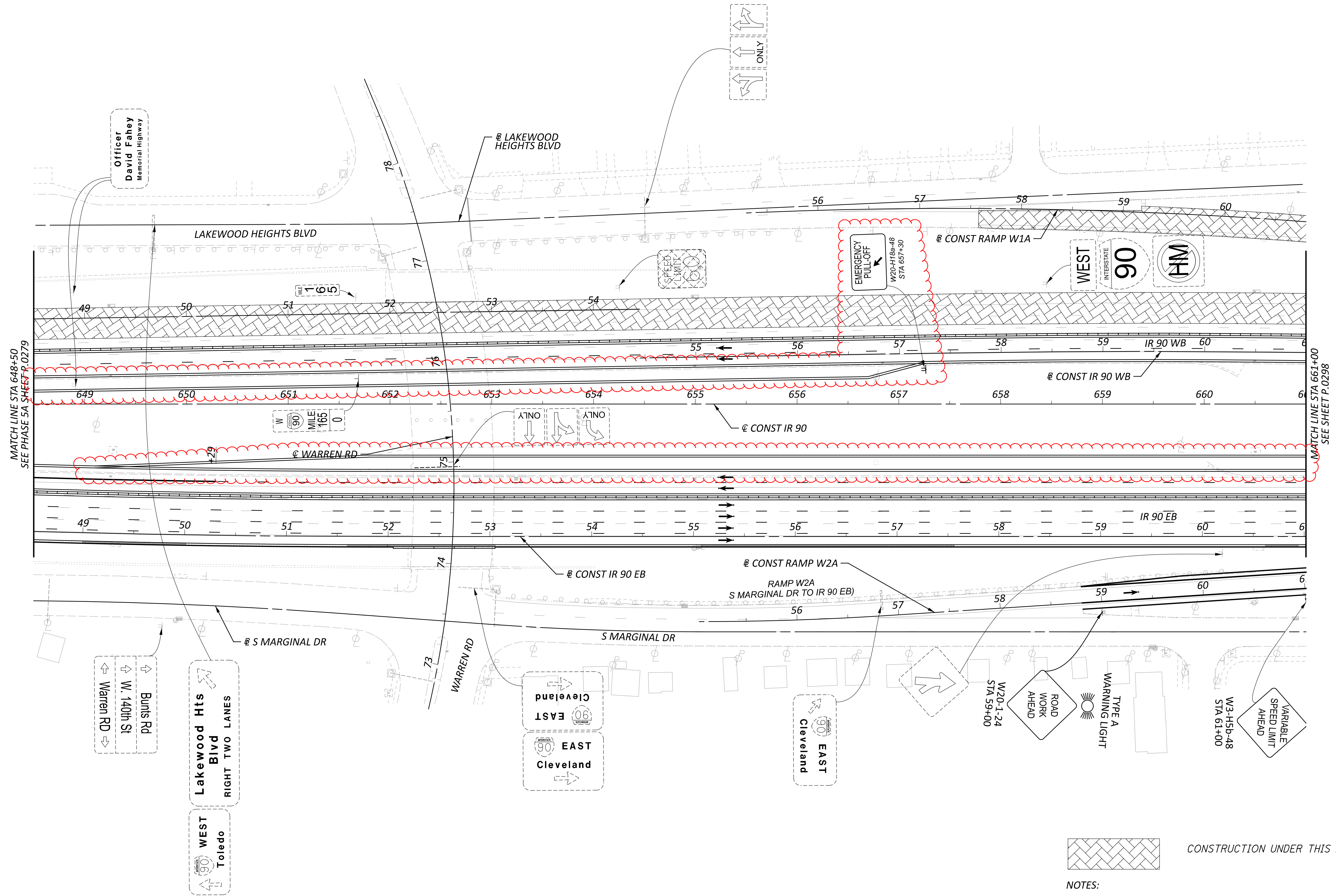
MAINTENANCE OF TRAFFIC PHASE 5B
STA 576+00 TO STA 588+50

DESIGN AGENCY	
AMERICAN STRUCTUREPOINT INC.	
DESIGNER	DMS
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.0295	P.1587



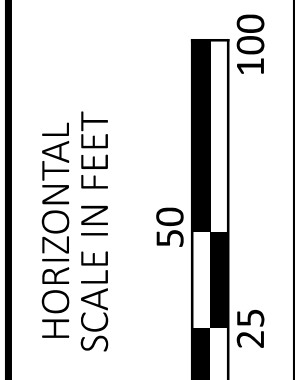
MAINTENANCE OF TRAFFIC PHASE 5B
STA 588+50 TO STA 601+00

DESIGN AGENCY	STRUCTUREPOINT
DESIGNER	DMS
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0296
TOTAL	P.1587



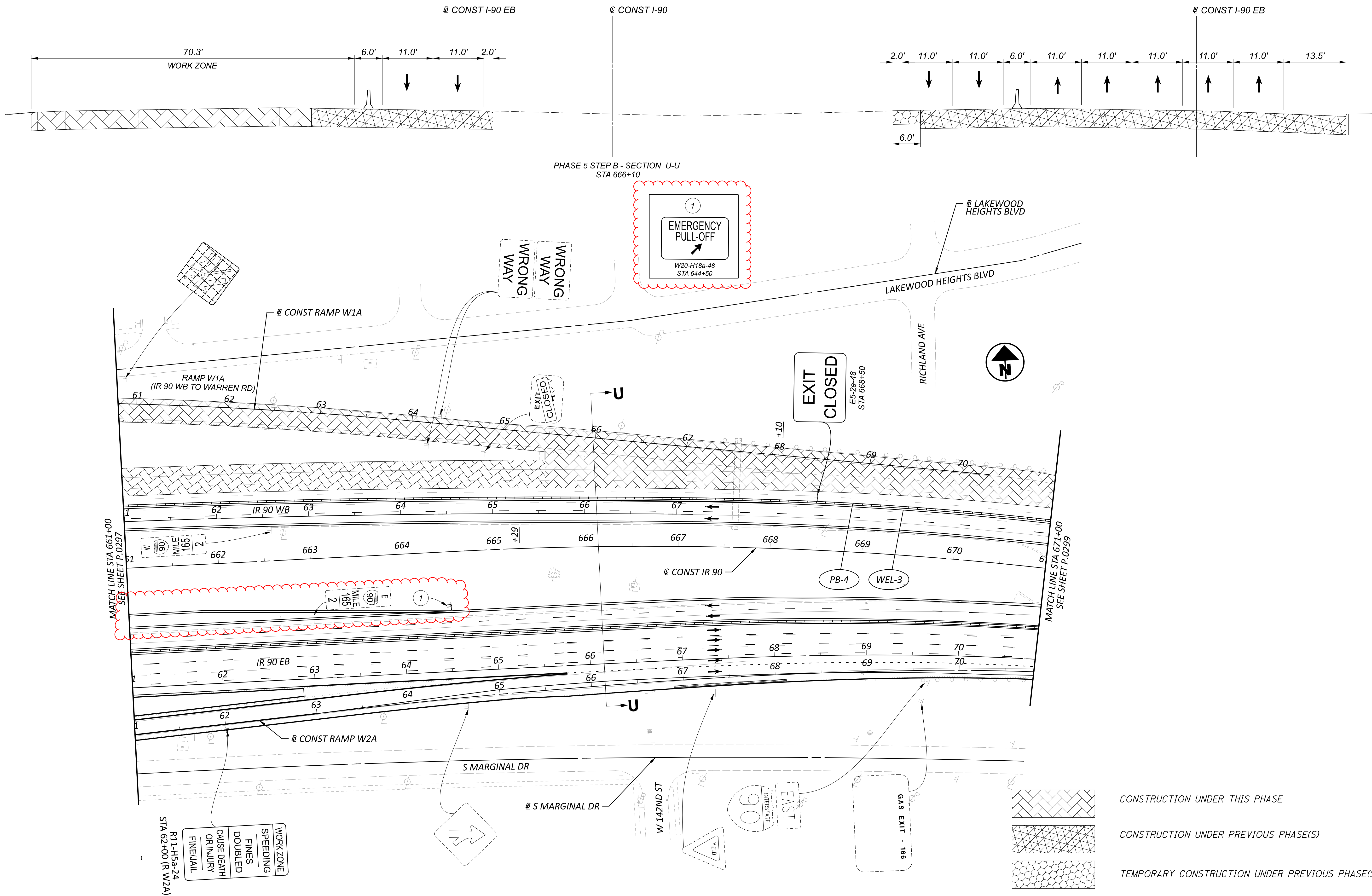
CONSTRUCTION UNDER THIS PHASE

- NOTES:
- FOR ADDITIONAL MOT LEGEND ITEMS, SEE SHEET P.0103.
 - ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.



MAINTENANCE OF TRAFFIC PHASE 5B
 STA 648+50 TO STA 661+00

DESIGN AGENCY	
STRUCTUREPOINT	
DESIGNER	DMS
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.0297	P.1587

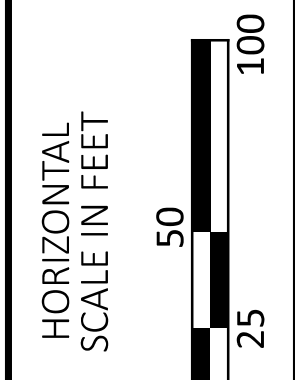


MATCH LINE STA 661+00
SEE SHEET P.0297

MATCH LINE STA 671+00
SEE SHEET P.0299

R11-H5a-24
STA 62+00 (R W2A)
WORK ZONE
SPEEDING
FINES
DOUBLED
CAUSE DEATH
OR INJURY
FINE/JAIL

- NOTES:
- FOR ADDITIONAL MOT LEGEND ITEMS, SEE SHEET P.0103.
 - ALL STATIONING TAKEN FROM CL IR 90, UNLESS OTHERWISE NOTED.



MAINTENANCE OF TRAFFIC PHASE 5B
STA 661+00 TO STA 671+00

DESIGN AGENCY	STRUCTUREPOINT
DESIGNER	DMS
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0298
TOTAL	P.1587

SHEET NUM.										PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	45	46	47	332	337	338	340	341	346	01/IMS/04	02/IMS/13	03/IMS/13						
	LS									LS			201	11000	LS	CLEARING AND GRUBBING		
				420,404						420,404			202	23000	420,404	SY	PAVEMENT REMOVED	
				40,075		6,343				6,343			202	30000	6,343	SF	WALK REMOVED	
				2,234						40,075			202	30700	40,075	FT	CONCRETE BARRIER REMOVED	
				54,446						2,234			202	30800	2,234	SY	TRAFFIC ISLAND REMOVED	
										54,446			202	32000	54,446	FT	CURB REMOVED	
				204						204			202	32800	204	SY	CONCRETE SLOPE PROTECTION REMOVED	
									9,654	9,654			202	35100	9,654	FT	PIPE REMOVED, 24" AND UNDER	
									10,617	10,617			202	35200	10,617	FT	PIPE REMOVED, OVER 24"	
				12,141						12,141			202	38000	12,141	FT	GUARDRAIL REMOVED	
				39						39			202	42010	39	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
				25						25			202	42040	25	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
				33						33			202	47000	33	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
				2						2			202	47800	2	EACH	IMPACT ATTENUATOR REMOVED	
									37	37			202	58000	37	EACH	MANHOLE REMOVED	
									101	101			202	58100	101	EACH	CATCH BASIN REMOVED	
									150	150			202	58200	150	EACH	INLET REMOVED	
									4,248	4,248			SPECIAL	20270000	4,248	FT	FILL AND PLUG EXISTING CONDUIT, 15"	P.0048
									578	578			SPECIAL	20270000	578	FT	FILL AND PLUG EXISTING CONDUIT, 18"	P.0048
									654	654			SPECIAL	20270000	654	FT	FILL AND PLUG EXISTING CONDUIT, 21"	P.0048
									804	804			SPECIAL	20270000	804	FT	FILL AND PLUG EXISTING CONDUIT, 24"	P.0048
									247	247			SPECIAL	20270000	247	FT	FILL AND PLUG EXISTING CONDUIT, 30"	P.0048
									575	575			SPECIAL	20270000	575	FT	FILL AND PLUG EXISTING CONDUIT, 36"	P.0048
									670	670			SPECIAL	20270000	670	FT	FILL AND PLUG EXISTING CONDUIT, 42"	P.0048
									773	773			SPECIAL	20270000	773	FT	FILL AND PLUG EXISTING CONDUIT, 48"	P.0048
									2,021	2,021			SPECIAL	20270000	2,021	FT	FILL AND PLUG EXISTING CONDUIT, 54"	P.0048
									1,806	1,806			SPECIAL	20270000	1,806	FT	FILL AND PLUG EXISTING CONDUIT, 60"	P.0048
				500					145	645			SPECIAL	20270110	645	FT	PIPE CLEANOUT, 24" AND UNDER	P.0047
				500					190	690			SPECIAL	20270120	690	FT	PIPE CLEANOUT, 27" TO 48"	P.0047
				500						500			SPECIAL	20270130	500	FT	PIPE CLEANOUT OVER 48"	P.0047
									41,942	41,942			202	75000	41,942	FT	FENCE REMOVED	
									LS	LS			202	98000	LS	LS	REMOVAL MISC.: TRAFFIC MONITORING EQUIPMENT	P.1268
									258,949	258,949			203	10001	258,949	CY	EXCAVATION, AS PER PLAN	P.0049
									9,139	9,139			203	20001	9,139	CY	EMBANKMENT, AS PER PLAN	P.0049
									24	24			203	98600	24	EACH	ROADWAY, MISC.: TEST HOLE	P.0046
									37,166	37,166			204	13001	37,166	CY	EXCAVATION OF SUBGRADE, AS PER PLAN	P.0046
									71	71			204	45000	71	HOUR	PROOF ROLLING	
									5,786	5,786			206	10500	5,786	TON	CEMENT	
									221,079	221,079			206	11000	221,079	SY	CURING COAT	
									204,209	204,209			206	15010	204,209	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	
									16,870	16,870			206	15020	16,870	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
									LS	LS			206	30000	LS	LS	MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
									0.25	0.25			209	15051	0.25	MILE	RESHAPING UNDER GUARDRAIL, AS PER PLAN	P.0049
									20,246	20,246			606	15051	20,246	FT	GUARDRAIL, TYPE MGS, AS PER PLAN	P.0046
									125	125			606	15151	125	FT	GUARDRAIL, TYPE MGS HALF POST SPACING, AS PER PLAN	P.0046
									62.5	62.5			606	15251	62.5	FT	GUARDRAIL, TYPE MGS QUARTER POST SPACING, AS PER PLAN	P.0046
									57	57			606	26150	57	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
									35	35			606	26550	35	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
									42	42			606	35002	42	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
									20	20			606	35102	20	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
									41,913	41,913			607	23000	41,913	FT	FENCE, TYPE CLT	
									41,913	41,913			607	70000	41,913	FT	FENCELINE SEEDING AND MULCHING	

GENERAL SUMMARY

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0316 P.1587

SHEET NUM.					PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
48	63	346	347		01/IMS/04	02/IMS/13	03/IMS/13						
												DRAINAGE CONT.	
		1,885						611	06100	1,885	FT	15" CONDUIT, TYPE C	
		73						611	06700	273	FT	15" CONDUIT, TYPE F	
		382						611	07400	382	FT	18" CONDUIT, TYPE B	
	247	40						611	07401	247	FT	18" CONDUIT, TYPE B, AS PER PLAN	P.0063
		245						611	07600	40	FT	18" CONDUIT, TYPE C	
		232						611	08901	245	FT	21" CONDUIT, TYPE B, AS PER PLAN	P.0063
		265						611	10400	232	FT	24" CONDUIT, TYPE B	
		1,265						611	10401	265	FT	24" CONDUIT, TYPE B, AS PER PLAN	P.0063
								611	10600	1,265	FT	24" CONDUIT, TYPE C	
		527						611	13600	527	FT	30" CONDUIT, TYPE C	
		58						611	16400	58	FT	36" CONDUIT, TYPE B	
		677						611	16600	677	FT	36" CONDUIT, TYPE C	
		247						611	19400	247	FT	42" CONDUIT, TYPE B	
		493						611	19600	493	FT	42" CONDUIT, TYPE C	
		2,845						611	22600	2,845	FT	54" CONDUIT, TYPE C	
		472						611	23800	472	FT	60" CONDUIT, TYPE B	
		3,601						611	96600	3,601	FT	CONDUIT, BORED OR JACKED, 15", TYPE B	
		1,160						611	96600	1,160	FT	CONDUIT, BORED OR JACKED, 18", TYPE B	
		1,387						611	96600	1,387	FT	CONDUIT, BORED OR JACKED, 24", TYPE B	
		114						611	96600	114	FT	CONDUIT, BORED OR JACKED, 30", TYPE B	
		92						611	96600	92	FT	CONDUIT, BORED OR JACKED, 36", TYPE B	
		254						611	96600	254	FT	CONDUIT, BORED OR JACKED, 36", TYPE C	
		143						611	96600	143	FT	CONDUIT, BORED OR JACKED, 42", TYPE B	
		102						611	96600	102	FT	CONDUIT, BORED OR JACKED, 48", TYPE B	
		88						611	96600	88	FT	CONDUIT, BORED OR JACKED, 54", TYPE B	
		455						611	96600	455	FT	CONDUIT, BORED OR JACKED, 60", TYPE B	
		122						611	96600	122	FT	CONDUIT, BORED OR JACKED, 66", TYPE B	
		74						611	96601	74	FT	CONDUIT, BORED OR JACKED, AS PER PLAN, 15", TYPE B	P.0063
		15						611	96601	15	FT	CONDUIT, BORED OR JACKED, AS PER PLAN, 18", TYPE B	P.0063
		110						611	96601	110	FT	CONDUIT, BORED OR JACKED, AS PER PLAN, 24", TYPE B	P.0063
		24						611	97400	24	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE B, ROCK CUT	P.0049
								611	97400	26	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	P.0049
		8,520						611	97400	8,520	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,933						611	97400	1,933	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	P.0049
		85						611	97400	85	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	P.0049
		1,739						611	97400	1,739	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,019						611	97400	1,019	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	P.0049
		501						611	97400	501	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	P.0049
		469						611	97400	469	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	P.0049
		76						611	97400	76	FT	CONDUIT, MISC.: 27" CONDUIT, TYPE C, ROCK CUT	P.0049
		6						611	97400	6	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,394						611	97400	1,394	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT	P.0049
		248						611	97400	248	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE B, ROCK CUT	P.0049
		332						611	97400	332	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE C, ROCK CUT	P.0049
		262						611	97400	262	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,180						611	97400	1,180	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT	P.0049
		2,467						611	97400	2,467	FT	CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	P.0049
		368						611	97400	368	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT	P.0049
		608						611	97400	608	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT	P.0049
		555						611	97400	555	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	P.0049
		2,085						611	97400	2,085	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE B, ROCK CUT	P.0049
		182						611	97400	182	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT	P.0049
		38						611	98150	38	EACH	CATCH BASIN, NO. 3	
		1						611	98151	1	EACH	CATCH BASIN, NO. 3, AS PER PLAN	P.0048
		15						611	98180	15	EACH	CATCH BASIN, NO. 3A	
		63						611	98300	63	EACH	CATCH BASIN, NO. 5	
		1						611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.0048
		1						611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN (2)	P.0063
		7						611	98370	7	EACH	CATCH BASIN, NO. 6	
		1						611	98371	1	EACH	CATCH BASIN, NO. 6, AS PER PLAN	P.0063
		1						611	98510	1	EACH	CATCH BASIN, NO. 2-3	
		15						611	98690	15	EACH	CATCH BASIN, MISC.: CITY OF CLEVELAND CB-1 CATCH BASIN	P.0048
		7						611	98800	7	EACH	INLET, NO. 3B	
		7						611	98810	7	EACH	INLET, NO. 3C	
		7						611	98820	7	EACH	INLET, NO. 3D	

GENERAL SUMMARY

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0318 P.1587

SHEET NUM.						PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
51	1153	1166	1353	1357	1361	01/IMS/04	02/IMS/13	03/IMS/13							
		28.94				28.94			850	10010	28.94	MILE	TRAFFIC CONTROL CONT. GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)		
		3,621				3,621			850	10110	3,621	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)		
		17,925				17,925			850	10130	17,925	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)		
		8.97				8.97			850	20010	8.97	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)		
		1,974				1,974			850	20110	1,974	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)		
		1,127				1,127			850	20130	1,127	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)		
10						10			632	26501	10	EACH	TRAFFIC SIGNALS DETECTOR LOOP, AS PER PLAN	P.0051	
	LS					LS			202	11201	LS		RETAINING WALLS (RW1, RW2, RW3 AND RW4) PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	P.1348	
	39,845					39,845			509	10000	39,845	LB	EPOXY COATED STEEL REINFORCEMENT		
	21,388					21,388			509	30020	21,388	FT	NO. 4 DEFORMED GFRP REINFORCEMENT		
	2,152					2,152			510	10000	2,152	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		
	324					324			511	34450	324	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)		
	1,578					1,578			512	10100	1,578	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
	279					279			516	13600	279	SF	1" PREFORMED EXPANSION JOINT FILLER		
													STRUCTURE OVER 20 FOOT SPAN (CUY-00020-08.470)		
		106				106			512	10100	106	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
		89				89			512	10600	89	FT	CONCRETE REPAIR BY EPOXY INJECTION		
		40				40			SPECIAL	51271500	40	SY	URETHANE TOP COAT SEALER	P.1349	
		50				50			514	20001	50	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN	P.1353	
		LS				LS			518	63300	LS		STRUCTURE DRAINAGE, MISC.: CLEAN OUT EXISTING DRAINAGE SYSTEM	P.1349	
		358				358			SPECIAL	51900100	358	SF	COMPOSITE FIBER WRAP SYSTEM	P.1350	
		944				944			519	11101	944	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350	
		4				4			SPECIAL	53000400	4	EACH	STRUCTURES: DRILLING ENDS OF CRACKS IN STRUCTURAL STEEL	P.1353	
		10				10			SPECIAL	53000500	10	HOUR	STRUCTURES: REPAIRING DAMAGED MEMBERS BY GRINDING	P.1353	
													STRUCTURE OVER 20 FOOT SPAN (CUY-00090-07.540)		
				24		24			512	10100	24	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
				12		12			512	10600	12	FT	CONCRETE REPAIR BY EPOXY INJECTION		
				68		68			SPECIAL	51271500	68	SY	URETHANE TOP COAT SEALER	P.1349	
				607		607			SPECIAL	51900100	607	SF	COMPOSITE FIBER WRAP SYSTEM	P.1350	
				576		576			519	11101	576	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350	
				559		559			607	35001	559	FT	FENCE REMOVED AND REBUILT, AS PER PLAN	P.1350	
				1		1			625	33001	1	EACH	STRUCTURE GROUNDING SYSTEM, AS PER PLAN	P.1350	
													STRUCTURE OVER 20 FOOT SPAN (CUY-00090-07.580)		
					LS				LS	202	11203	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.1348	
					427				427	202	22900	427	SY	APPROACH SLAB REMOVED	
					LS				LS	503	11100	LS	COFFERDAMS AND EXCAVATION BRACING		
					174				174	503	21100	174	CY	UNCLASSIFIED EXCAVATION	
					79,710				79,710	509	10000	79,710	LB	EPOXY COATED STEEL REINFORCEMENT	
					192				192	510	10000	192	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
					56				56	511	34412	56	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE	
					76				76	511	34450	76	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	
					218				218	511	53012	218	CY	CLASS QC2 CONCRETE, MISC.: ABUTMENT SLABS	
					13,311				13,311	512	10050	13,311	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
					3,659				3,659	512	10100	3,659	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
					927				927	512	10300	927	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					10,348				10,348	513	10200	10,348	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF	
					6,500				6,500	513	21501	6,500	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN	P.1369
					LS				LS	513	95020	LS		STRUCTURAL STEEL, MISC.: GIRDER SPLICE REPAIR	

GENERAL SUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
 VDK 08/09/23

PROJECT ID
 76779

SHEET TOTAL
 P.0322 | P.1587

SHEET NUM.						PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
1397	1402	1407	1411			01/IMS/04	02/IMS/13	03/IMS/13						
												STRUCTURE OVER 20 FOOT SPAN (CUY-00090-08.490)		
94							94		202	32800	94	SY	CONCRETE SLOPE PROTECTION REMOVED	
28							28		512	10100	28	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
30							30		512	10600	30	FT	CONCRETE REPAIR BY EPOXY INJECTION	
32							32		SPECIAL	51271500	32	SY	URETHANE TOP COAT SEALER	P.1349
15							15		516	46701	15	EACH	RESET BEARING, AS PER PLAN	P.1349
LS							LS		516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	P.1349
285							285		SPECIAL	51900100	285	SF	COMPOSITE FIBER WRAP SYSTEM	P.1350
338							338		519	11101	338	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350
94							94		601	21000	94	SY	CONCRETE SLOPE PROTECTION	
													STRUCTURE OVER 20 FOOT SPAN (CUY-00090-08.920)	
	31						31		512	10100	31	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
	10						10		513	21001	10	EACH	TRIMMING OF BEAM END, AS PER PLAN	P.1349
	LS						LS		518	63300	LS		STRUCTURE DRAINAGE, MISC.: CLEAN OUT EXISTING SCUPPERS	P.1350
	276						276		519	11101	276	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350
													STRUCTURE OVER 20 FOOT SPAN (CUY-00090-09.090)	
		6					6		503	21100	6	CY	UNCLASSIFIED EXCAVATION	
		47					47		512	10100	47	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		9					9		512	10600	9	FT	CONCRETE REPAIR BY EPOXY INJECTION	
		77					77		SPECIAL	51271500	77	SY	URETHANE TOP COAT SEALER	P.1349
		LS					LS		518	63300	LS		STRUCTURE DRAINAGE, MISC.: REPLACE PORTION OF DRAINAGE SYSTEM	P.1349
		LS					LS		518	63300	LS		STRUCTURE DRAINAGE, MISC.: CLEAN OUT EXISTING SCUPPERS	P.1350
		685					685		SPECIAL	51900100	685	SF	COMPOSITE FIBER WRAP SYSTEM	P.1350
		440					440		519	11101	440	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350
													STRUCTURE OVER 20 FOOT SPAN (CUY-00090-09.470 L)	
		LS					LS		202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.1348
		267					267		202	22900	267	SY	APPROACH SLAB REMOVED	
		73,112					73,112		509	10000	73,112	LB	EPOXY COATED STEEL REINFORCEMENT	
		5,983					5,983		509	30020	5,983	FT	NO. 4 DEFORMED GFRP REINFORCEMENT	
		249					249		510	10000	249	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
		156					156		511	34412	156	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE	
		63					63		511	34450	63	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	
		1,524					1,524		512	10050	1,524	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
		414					414		512	10100	414	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		165					165		512	10300	165	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
		49					49		519	11101	49	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1412
		390					390		526	25010	390	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")	
		143					143		526	90030	143	FT	TYPE C INSTALLATION	
		310					310		607	39900	310	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC	
		1,134					1,134		848	10201	1,134	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN, 3 3/4" INCH THICK	P.1350
		1,134					1,134		848	20000	1,134	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
		3					3		848	30200	3	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
		5					5		848	50000	5	SY	HAND CHIPPING	
		LS					LS		848	50100	LS		TEST SLAB	
		1,134					1,134		848	50320	1,134	SY	EXISTING CONCRETE OVERLAY REMOVED, 3 1/2" NOMINAL THICKNESS	
		50					50		848	50340	50	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	

GENERAL SUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
 DESIGNER
 BER
 REVIEWER
 VDK 08/09/23
 PROJECT ID
 76779
 SHEET TOTAL
 P.0324 P.1587

SHEET NUM.								PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
1351	1432	1457						01/IMS/04	02/IMS/13	03/IMS/13						
STRUCTURE OVER 20 FOOT SPAN (CUY-00090-09.700 R)																
	LS							LS			202	11203	LS			
	593							593			202	22900	593	SY	P.1348	
	69,229							69,229			509	10000	69,229	LB		
	21,788							21,788			509	30020	21,788	FT		
	106							106			510	10000	106	EACH		
	114							114			511	34412	114	CY		
	224							224			511	34450	224	CY		
	6,710							6,710			512	10050	6,710	SY		
	1,500							1,500			512	10100	1,500	SY		
	397							397			512	10300	397	SY		
	9,058							9,058			513	21501	9,058	LB	P.1349	
	1,314							1,314			514	00060	1,314	SF		
	1,314							1,314			514	00066	1,314	SF		
	LS							LS			514	27800	LS			
	168							168			516	11210	168	FT		
	LS							LS			518	63300	LS			
	250							250			526	25010	250	SY		
	250							250			526	30010	250	SY		
	147							147			526	90010	147	FT		
LS								LS			SPECIAL	53000200	LS		P.1351	
	1,290							1,290			607	39900	1,290	FT		
	6,209							6,209			848	10201	6,209	SY		
	6,209							6,209			848	20000	6,209	SY	P.1350	
	7							7			848	30200	7	CY		
	12							12			848	50000	12	SY		
	LS							LS			848	50100	LS			
	6,209							6,209			848	50320	6,209	SY		
	50							50			848	50340	50	SY		
STRUCTURE OVER 20 FOOT SPAN (CUY-00090-09.910 L)																
	LS							LS			202	11203	LS			
	479							479			202	22900	479	SY	P.1348	
	LS							LS			503	11100	LS			
	32,504							32,504			509	10000	32,504	LB		
	4,493							4,493			509	30020	4,493	FT		
	126							126			510	10000	126	EACH		
	2							2			511	33500	2	EACH		
	176							176			511	34412	176	CY		
	34							34			511	34450	34	CY		
	1							1			511	45712	1	CY		
	1,020							1,020			512	10050	1,020	SY		
	755							755			512	10100	755	SY		
	61							61			512	10300	61	SY		
	491							491			512	74001	491	SY	P.1348	
	43							43			516	13600	43	SF		
	124							124			516	13900	124	SF		
	11							11			516	14600	11	FT		
	522							522			516	25000	522	SF		
	16							16			516	44200	16	EACH		

GENERAL SUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT
 INC.

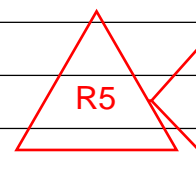
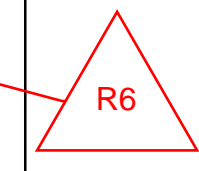
DESIGNER
 BER

REVIEWER
 VDK 08/09/23

PROJECT ID
 76779

SHEET TOTAL
 P.0326 | P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	441	606	606	606	606	606	606	606	626	209
			FROM	TO		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, (449), (UNDER GUARDRAIL), AS PER PLAN, 3"	GUARDRAIL, TYPE MGS, AS PER PLAN	GUARDRAIL, TYPE MGS HALF POST SPACING, AS PER PLAN	GUARDRAIL, TYPE MGS QUARTER POST SPACING, AS PER PLAN	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	ANCHOR ASSEMBLY, MGS TYPE T	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	BARRIER REFLECTOR, TYPE 5, ONE WAY	RESHAPING UNDER GUARDRAIL, AS PER PLAN
						CY	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	MILE
419	GR-51	IR 90 EB	742+18.00	743+10.50	RT	3.75	12.50			1		1		2	
419	GR-52	RAMP 117-12/IR 90 WB	43+89.10	749+06.60	LT	11.33	437.50			1		1		7	
419	GR-53	IR 90 WB	744+00.50	748+55.50	LT	20.07	375.00			1		1		6	
419	GR-54	IR 90 EB	747+36.00	749+53.50	RT	4.76	137.50			1		1		4	
421	GR-55	IR 90 EB	748+98.50	750+03.50	RT	4.31	25.00			1		1		3	
421	GR-56	IR 90 WB	750+71.50	751+89.00	LT	4.87	37.50			1		1		3	
421	GR-57	IR 90 EB	757+24.50	758+29.50	RT	4.31	25.00			1		1		3	
421	GR-58	IR 90 WB	758+98.50	760+03.50	LT	4.31	25.00			1		1		3	
421	GR-59	IR 90 WB	759+28.37	761+70.87	LT	5.31	162.50			1		1		4	
423	GR-60	IR 90 EB	766+69.40	768+85.00	RT	9.71	162.50			1				4	
423	GR-61	IR 90 WB	767+47.50	768+85.00	LT	3.01	125.00				1			3	
423	GR-62	IR 90 EB	767+76.06	769+18.56	RT	5.64	62.50			1		1		3	
425	GR-63	Ramp HA	33+99.27	39+14.60	LT	4.77	452.83			1	1			11	
425	GR-64	Ramp HA	35+00.00	36+00.00	RT	0.93	37.5			1	1			2	
427	GR-65	Ramp HB	32+28.50	33+15.40	LT	0.80	74.4				1		1	1	
427	GR-66	Ramp HB	31+68.32	33+55.77	RT	1.74	250				1		1	5	
428	GR-67	Ramp HB	37+25.00	38+73.80	LT	1.38	71.9			1		1		3	
428	GR-68	Ramp HB	37+84.00	42+61.56	RT	4.42	400.66			1		1		5	
430	GR-69	Ramp MC	96+24.40	100+23.52	RT	3.70	386.62				1			4	
432	GR-70	Ramp MD	93+47.19	97+75.29	LT	3.96	378.1			1				5	
435	GR-71	Ramp ME	5+30.69	8+80.00	LT	3.23	299.31			1				4	
436	GR-72	Ramp MF	5+21.90	12+00.02	RT	6.28	628.12			1				7	
438	GR-73	Ramp W1	39+94.40	43+35.00	RT	3.15	278.1			1	1			4	
441	GR-74	Ramp W2	31+46.19	38+00.90	LT	6.06	604.71			1				7	
447	GR-75	Ramp W2A	58+74.00	60+62.50	LT	1.75	176				1			2	
448	GR-76	Ramp 140-3	73+35.17	84+45.67	LT	10.28	1098				1		1	12	
450	GR-77	Ramp 140-4	75+61.41	84+21.77	RT	7.97	810.36			1		1		9	
457	GR-78	RAMP 117-8	30+76.40	31+54.50	RT	3.52	12.50			1	1			3	
463	GR-79	RAMP 117-12	36+60.10	39+52.60	LT	13.17	212.50			1		1		7	
8	GR-80	IR 90 EB	807+50.00	819+50.00	RT	54.05	1173.10					1	1	25	
8	GR-81	IR 90 WB	808+05.00	819+50.00	LT	51.57	1118.10					1	1	24	0.22
415	GR-82	IR 90 EB	727+52.50	729+52.50	RT	9.01	134.40			1	1			5	0.03
TOTALS THIS SHEET						273.13	10184.71			24.00	11.00	15.00	6.00	190.00	0.25
TOTALS CARRIED FROM SHEET 336						450.04	10060.94	125.00	62.50	33.00	24.00	27.00	14.00	205.00	
TOTALS CARRIED TO GENERAL SUMMARY						724.00	20,246.00	125.00	62.50	57.00	35.00	42.00	20.00	395.00	0.25



ROADWAY ESTIMATED QUANTITIES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
 DESIGNER
BER
 REVIEWER
 VDK 08/09/23
 PROJECT ID
 76779
 SHEET TOTAL
 P.0337 | P.1587

SHEET NO.	LOCATION	203		659	659	659												
		EXCAVATION, AS PER PLAN CY	EMBANKMENT, AS PER PLAN CY	SEEDING AND MULCHING, CLASS 2 SY	SEEDING AND MULCHING, CLASS 3A SY	SEEDING AND MULCHING, CLASS 3B SY												
	IR 90	226711	5337	100021	11768	5884												
	RAMP HA	1804	260	568	211	185												
	RAMP HB	2568	6	695														
	RAMP MC	929		309	263	59												
	RAMP MD	1998	13	257	216	971												
	RAMP ME	1178		6		686												
	RAMP MF	2477		364	271	1022												
	RAMP W1	1208	9	778														
	RAMP W2	2019	4	431		909												
	RAMP W1A	885	94	338		569												
	RAMP W2A	991	4	282	153													
	RAMP 104-3	1413	83	1239	355													
	RAMP 104-4	3143	2497	216	2057	186												
	RAMP 117-5	921	90	1569	185	93												
	RAMP 117-7	979	74	1649	194	97												
	RAMP 117-8	763	64	1341	158	79												
	RAMP 117-9	2206		3613	426	213												
	RAMP 117-11	2626	55	5151	607	304												
	RAMP 117-12	2775	12	3719	438	219												
	RAMP W13	218	531	1473	174	87												
	RAMP W14	1137	6	2060	243	122												
TOTALS CARRIED TO GENERAL SUMMARY		258,949	9,139	126,079	17,719	11,685												

EARTHWORK QUANTITIES RAMP HA table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 33+16.99 to 40+46.41 and a total row.

EARTHWORK QUANTITIES RAMP MD table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 90+43.53 to 97+75.29 and a total row.

EARTHWORK QUANTITIES RAMP W1 table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 36+39.23 to 43+13.75 and a total row.

EARTHWORK QUANTITIES RAMP W2A table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 58+74.00 to 62+88.04 and a total row.

EARTHWORK QUANTITIES RAMP HB table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 30+86.69 to 43+02.41 and a total row.

EARTHWORK QUANTITIES RAMP ME table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 5+30.69 to 9+50.00 and a total row.

EARTHWORK QUANTITIES RAMP W2 table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 29+40.99 to 37+80.90 and a total row.

EARTHWORK QUANTITIES RAMP 140-3 table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 72+50.59 to 81+73.19 and a total row.

EARTHWORK QUANTITIES RAMP MF table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 5+32.80 to 12+75.21 and a total row.

EARTHWORK QUANTITIES RAMP W1A table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 57+55.24 to 65+46.49 and a total row.

EARTHWORK QUANTITIES RAMP 140-4 table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 74+24.53 to 80+97.54 and a total row.

EARTHWORK QUANTITIES RAMP MC table with columns: STATION, CUT AREA, CUT VOLUME, FILL AREA, FILL VOLUME. Rows include stations 95+31.42 to 100+24.40 and a total row.

EARTHWORK CALCULATIONS

DESIGN AGENCY

AMERICAN STRUCTUREPOINT INC.

DESIGNER

BER

REVIEWER

VDK 08/09/23

PROJECT ID

76779

SHEET TOTAL

P.0344A P.1587

EARTHWORK QUANTITIES				
RAMP 117-5				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
27+06.36	0		0	
27+50.00	3	2	12	10
28+00.00	3	6	14	24
28+50.00	4	6	11	23
29+00.00	6	9	7	17
29+50.00	12	17	2	8
30+00.00	21	31	2	4
30+50.00	22	40	0	2
31+00.00	31	49	1	1
31+50.00	45	70	0	1
32+00.00	101	135	0	0
32+50.00	151	233	0	0
33+00.00	40	177	0	0
33+50.00	34	69	0	0
34+00.00	11	42	0	0
34+50.00	7	17	0	0
35+00.00	7	13	0	0
35+38.38	0	5	0	0
TOTALS CARRIED TO SHEET 341		921		90

EARTHWORK QUANTITIES				
RAMP 117-7				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
22+90.62	0		0	
23+00.00	1	0	0	0
23+50.00	2	3	0	0
24+00.00	4	6	0	0
24+50.00	33	34	5	5
25+00.00	18	47	7	11
25+50.00	23	38	7	13
26+00.00	37	56	5	11
26+50.00	43	74	3	7
27+00.00	39	76	3	6
27+50.00	41	74	2	5
28+00.00	52	86	1	3
28+50.00	48	93	2	3
29+00.00	52	93	2	4
29+50.00	68	111	2	4
30+00.00	46	106	0	2
30+50.00	43	82	0	0
TOTALS CARRIED TO SHEET 341		979		74

EARTHWORK QUANTITIES				
RAMP 117-8				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
24+03.19	9		1	
24+50.00	8	15	1	2
25+00.00	39	44	1	2
25+50.00	33	67	1	2
26+00.00	35	63	1	2
26+50.00	30	60	1	2
27+00.00	31	56	0	1
27+50.00	29	56	0	0
28+00.00	23	48	1	1
28+50.00	24	44	2	3
29+00.00	9	31	4	6
29+50.00	13	20	4	7
30+00.00	15	26	2	6
30+50.00	19	31	0	2
31+00.00	21	37	1	1
31+50.00	15	33	5	6
32+00.00	11	24	6	10
32+50.00	12	21	3	8
33+00.00	15	25	0	3
33+50.00	24	36	0	0
33+64.10	76	26	0	0
TOTALS CARRIED TO SHEET 341		763		64

EARTHWORK QUANTITIES				
RAMP 117-9				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
31+60.63	9		0	
32+00.00	37	34	0	0
32+50.00	40	71	0	0
33+00.00	88	119	0	0
33+50.00	43	121	0	0
34+00.00	35	72	0	0
34+50.00	49	78	0	0
35+00.00	51	93	0	0
35+50.00	61	104	0	0
36+00.00	76	127	0	0
36+50.00	88	152	0	0
37+00.00	94	169	0	0
37+50.00	116	194	0	0
38+00.00	142	239	0	0
38+50.00	98	222	0	0
39+00.00	107	190	0	0
39+50.00	94	186	0	0
39+69.36	4	35	0	0
TOTALS CARRIED TO SHEET 341		2,206		0

EARTHWORK QUANTITIES				
RAMP 117-11				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
36+08.61	117		0	
36+50.00	166	217	0	0
37+00.00	187	327	0	0
37+50.00	238	394	0	0
38+00.00	230	433	0	0
38+50.00	198	396	0	0
39+00.00	82	259	2	2
39+50.00	96	165	1	3
40+00.00	102	183	2	3
40+50.00	58	148	9	10
41+00.00	9	62	15	22
41+50.00	9	17	1	15
41+63.41	9	4	0	0
42+00.00	8	12	0	0
42+50.00	1	8	0	0
42+52.48	3	1	0	0
TOTALS CARRIED TO SHEET 341		2,626		55

EARTHWORK QUANTITIES				
RAMP 117-12				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
33+63.90	50		0	
34+00.00	20	47	0	0
34+50.00	34	50	0	0
35+00.00	27	56	0	0
35+50.00	24	47	0	0
36+00.00	44	63	0	0
36+50.00	47	84	0	0
37+00.00	35	76	0	0
37+50.00	58	86	0	0
38+00.00	59	108	0	0
38+50.00	50	101	0	0
39+00.00	55	97	0	0
39+50.00	97	141	0	0
40+00.00	130	210	0	0
40+50.00	147	256	0	0
41+00.00	165	289	5	5
41+50.00	104	249	1	6
42+00.00	95	184	0	1
42+50.00	96	177	0	0
43+00.00	77	160	0	0
43+50.00	109	172	0	0
43+76.68	138	122	0	0
TOTALS CARRIED TO SHEET 341		2,775	-	12

EARTHWORK QUANTITIES				
RAMP W13				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
65+41.11	43		9	
65+50.00	16	10	11	3
66+00.00	5	19	33	41
66+50.00	3	7	42	69
67+00.00	2	5	39	75
67+50.00	8	9	48	81
68+00.00	7	14	47	88
68+50.00	4	10	37	78
69+00.00	4	7	22	55
69+50.00	13	16	7	27
70+00.00	18	29	4	10
70+50.00	17	32	0	4
71+00.00	25	39	0	0
71+31.75	10	21	0	0
TOTALS CARRIED TO SHEET 341		218		531

EARTHWORK QUANTITIES				
RAMP W14				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
62+70.31	0		0	
63+00.00	23	13	0	0
63+50.00	25	44	0	0
64+00.00	33	54	0	0
64+50.00	54	81	0	0
65+00.00	56	102	0	0
65+50.00	55	103	0	0
66+00.00	52	99	0	0
66+50.00	55	99	0	0
67+00.00	52	99	0	0
67+50.00	42	87	1	1
68+00.00	42	78	1	2
68+50.00	38	74	1	2
69+00.00	34	67	0	1
69+50.00	8	39	0	0
70+00.00	83	84	0	0
70+05.94	43	14	0	0
TOTALS CARRIED TO SHEET 341		1,137		6

ESTIMATED QUANTITIES

Sheet 348	Sheet 349	Sheet 350	Sheet 351	Sheet 352	Sheet 353	Sheet 354	Sheet 355	Sheet 356	Sheet 357	Sheet 358	Sheet 359	Sheet 368	ITEM	EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
2717	4490	2447											202	35100	9,654	FT	PIPE REMOVED, 24" AND UNDER	
2420	4276	3921											202	35200	10,617	FT	PIPE REMOVED, OVER 24"	
17	11	9											202	58000	37	EACH	MANHOLE REMOVED	
40	30	31											202	58100	101	EACH	CATCH BASIN REMOVED	
33	65	52											202	58200	150	EACH	INLET REMOVED	
522	1455	2271											202	70000	4,248	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 15"	P.0046
215	162	201											202	70000	578	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 18"	P.0046
31	235	388											202	70000	654	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 21"	P.0046
67	68	669											202	70000	804	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 24"	P.0046
247													202	70000	247	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 30"	P.0046
	300	275											202	70000	575	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 36"	P.0046
73	310	287											202	70000	670	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 42"	P.0046
		773											202	70000	773	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 48"	P.0046
738	643	640											202	70000	2,021	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 54"	P.0046
1431		375											202	70000	1,806	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 60"	P.0046
				145									202	70110	145	FT	SPECIAL - PIPE CLEANOUT, 24" AND UNDER	
				190									202	70120	190	FT	SPECIAL - PIPE CLEANOUT, 27" TO 48"	
												7.12	601	21050	7.12	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
												124329	605	11110	124,329	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
												102604	605	14021	102,604	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN	P.0046
												5889	611	00510	5,889	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
												4	611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	
		46	11										611	04400	68	FT	12" CONDUIT, TYPE B	
													611	04600	68	FT	12" CONDUIT, TYPE C	
		976	73					1534	940				611	05900	4,518	FT	15" CONDUIT, TYPE B	
													611	06100	1,885	FT	15" CONDUIT, TYPE C	
		261	249					616	28	595	136		611	06700	73	FT	15" CONDUIT, TYPE F	
									180	202			611	07400	382	FT	18" CONDUIT, TYPE B	
								6			34		611	07600	40	FT	18" CONDUIT, TYPE C	
				194					38				611	10400	232	FT	24" CONDUIT, TYPE B	
													611	10600	1,265	FT	24" CONDUIT, TYPE C	
													611	13600	527	FT	30" CONDUIT, TYPE C	
													611	16400	58	FT	36" CONDUIT, TYPE B	
													611	16600	677	FT	36" CONDUIT, TYPE C	
													611	19400	247	FT	42" CONDUIT, TYPE B	
													611	19600	493	FT	42" CONDUIT, TYPE C	
													611	22600	2,845	FT	54" CONDUIT, TYPE C	
													611	23800	472	FT	60" CONDUIT, TYPE B	
													611	96600	3,601	FT	CONDUIT, BORED OR JACKED, 15", TYPE B	
													611	96600	1,160	FT	CONDUIT, BORED OR JACKED, 18", TYPE B	
													611	96600	1,387	FT	CONDUIT, BORED OR JACKED, 24", TYPE B	
													611	96600	114	FT	CONDUIT, BORED OR JACKED, 30", TYPE B	
													611	96600	92	FT	CONDUIT, BORED OR JACKED, 36", TYPE B	
													611	96600	254	FT	CONDUIT, BORED OR JACKED, 36", TYPE C	
													611	96600	143	FT	CONDUIT, BORED OR JACKED, 42", TYPE B	
													611	96600	102	FT	CONDUIT, BORED OR JACKED, 48", TYPE B	
													611	96600	88	FT	CONDUIT, BORED OR JACKED, 54", TYPE B	
													611	96600	455	FT	CONDUIT, BORED OR JACKED, 60", TYPE B	
													611	96600	122	FT	CONDUIT, BORED OR JACKED, 66", TYPE B	
													611	97400	24	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE B, ROCK CUT	P.0047

DRAINAGE SUB-SUMMARY

CUY-90-6.69

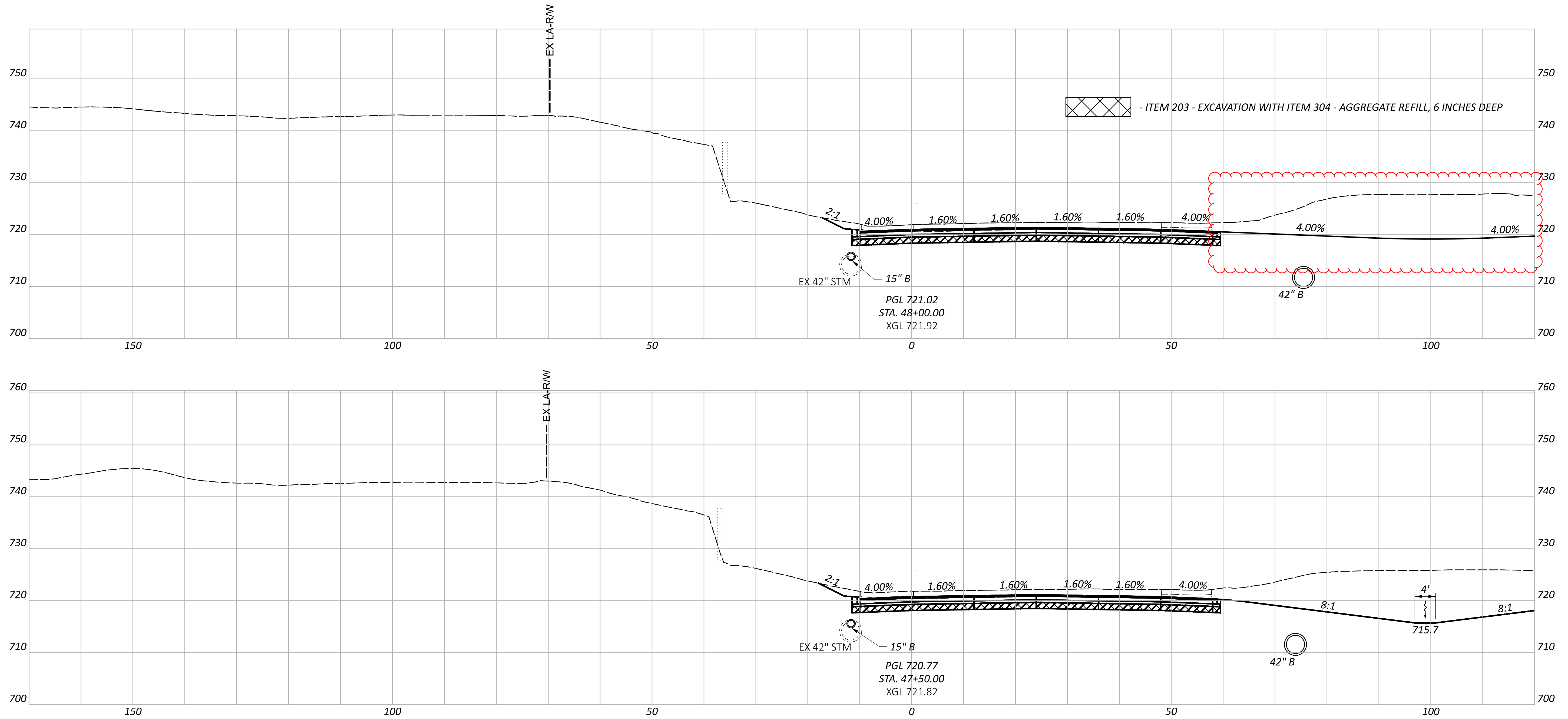
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DESIGN AGENCY
STRUCTUREPOINT
 INC.
 DESIGNER
 BER
 REVIEWER
 VDK 08/09/23
 PROJECT ID
 76779
 SHEET TOTAL
 P.0346 P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611		
			FROM	TO		12" CONDUIT, TYPE B	15" CONDUIT, TYPE B	15" CONDUIT, TYPE C	24" CONDUIT, TYPE C	MANHOLE RECONSTRUCTED TO GRADE	36" CONDUIT, TYPE B	36" CONDUIT, TYPE C	42" CONDUIT, TYPE B	42" CONDUIT, TYPE C	60" CONDUIT, TYPE B	CONDUIT, BORED OR JACKED, 15", TYPE B	CONDUIT, BORED OR JACKED, 18", TYPE B	CONDUIT, BORED OR JACKED, 24", TYPE B	CONDUIT, BORED OR JACKED, 36", TYPE C	CATCH BASIN, NO. 3	CATCH BASIN, NO. 3A	CATCH BASIN, NO. 5	INLET, NO. 2-A-6	INLET, NO. 2-A-8	INLET, NO. 2-A-10	INLET, NO. 3B	MANHOLE, NO. 3	MANHOLE, NO. 3, AS PER PLAN		
OUTFALL A																														
1047/1069	D2	WESTWAY DR	49+48.00	49+52.51	LT	6																								
OUTFALL AH																														
1048/1068	D3A	HILLIARD BLVD	82+10.38	82+13.00	LT	7																								
1048/1068	D4	HILLIARD BLVD	82+13.00	82+32.00	LT	19																								
OUTFALL B																														
1047/1070	D88	IR 90	530+69.00	530+69.00	LT/RT																									
1047/1070	D83	IR 90	530+69.00	530+69.00	RT																									
1047/1070	D79	IR 90	530+69.00	533+50.00	RT																									
1048/1070	D75	IR 90	533+50.00	535+20.00	RT																									
1048/1070	D71	IR 90	535+20.00	37+53.40	RT																									
1047/1075	D79A	IR 90	353+30.00		RT																									
1048/1070	D62	RAMP HA	37+53.40	37+60.00	LT/RT																									
1048/1070	D57	RAMP HA	37+60.00	40+16.00	RT																									
1048/1071	D50	RAMP HA	40+16.00	542+89.00	RT																									
1048/1071	D21	IR 90	542+89.00	545+10.00	RT																									
1049/1072	D19	IR 90	545+10.00	545+54.00	RT																									
1049/1072	D18	IR 90	545+54.00	547+00.00	RT																									
1049/1072	D17	IR 90	547+00.00	547+09.00	RT																									
1049/1072	D14	IR 90	547+09.00	547+65.00	RT																									
1049/1072	D11	IR 90	547+65.00	551+91.86	RT																									
1047/1075	D86	IR 90	529+87.00	530+69.00	RT																									
1047/1075	D85	IR 90	530+69.00	531+51.00	RT																									
1048/1075	D77	RAMP HB	32+51.00	533+50.00	LT																									
1048/1075	D78	IR 90	533+50.00	533+50.00	RT																									
1048/1075	D67	IR 90	535+40.00	535+20.00	RT																									
1048/1075	D72	RAMP HA	35+43.00	535+20.00	LT																									
1048/1075	D73	RAMP HA	35+43.00	35+70.00	LT/RT																									
1048/1075	D74	RAMP HA	35+70.00	35+75.00	RT																									
1048/1075	D66	IR 90	536+65.00	537+48.00	RT																									
1048/1076	D69	IR 90	537+47.00	537+50.00	LT																									
1048/1076	D65	IR 90	537+50.00	537+48.00	LT/RT																									
1048/1076	D64	IR 90	537+48.00	37+53.40	RT																									
1048/1076	D54	RAMP HA	39+68.00	40+16.00	RT																									
1048/1076	D53	RAMP HA	40+16.00	540+58.00	RT																									
1048/1076	D55	RAMP HA	40+16.00	40+16.00	RT																									
1048/1076	D51	RAMP HA	40+16.00	40+16.00	RT																									
1048/1076	D27	IR 90	542+00.00	542+75.00	RT																									
1048/1077	D49	RAMP HB	38+16.00	39+18.00	RT																									
1048/1077	D48	RAMP HB	39+18.00	39+85.00	RT																									
1048/1077	D47	RAMP HB	39+85.00	42+81.00	RT																									
1048/1077	D28	RAMP HB	42+81.00	542+75.00	RT																									
1048/1077	D26	IR 90	542+75.00	542+91.00	RT																									
1048/1077	D25	IR 90	542+91.00	542+89.00	RT																									
1048/1077	D22	IR 90	542+89.00	542+89.00	RT																									
1048/1077	D30	RAMP HB	42+73.50	42+73.50	LT																									
1048/1077	D29	RAMP HB	42+73.50	543+25.25	LT																									
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1048/1077	D33	IR 90	543+75.00	543+75.25	LT																									
1048/1078	D31	IR 90	543+25.25	42+81.00	LT																									
TOTALS CARRIED TO SHEETS 346 & 347						46	976	261	332	1	58	669	247	493	472	143	126	235	254	5	4	10	1	2	1	5	9	9		

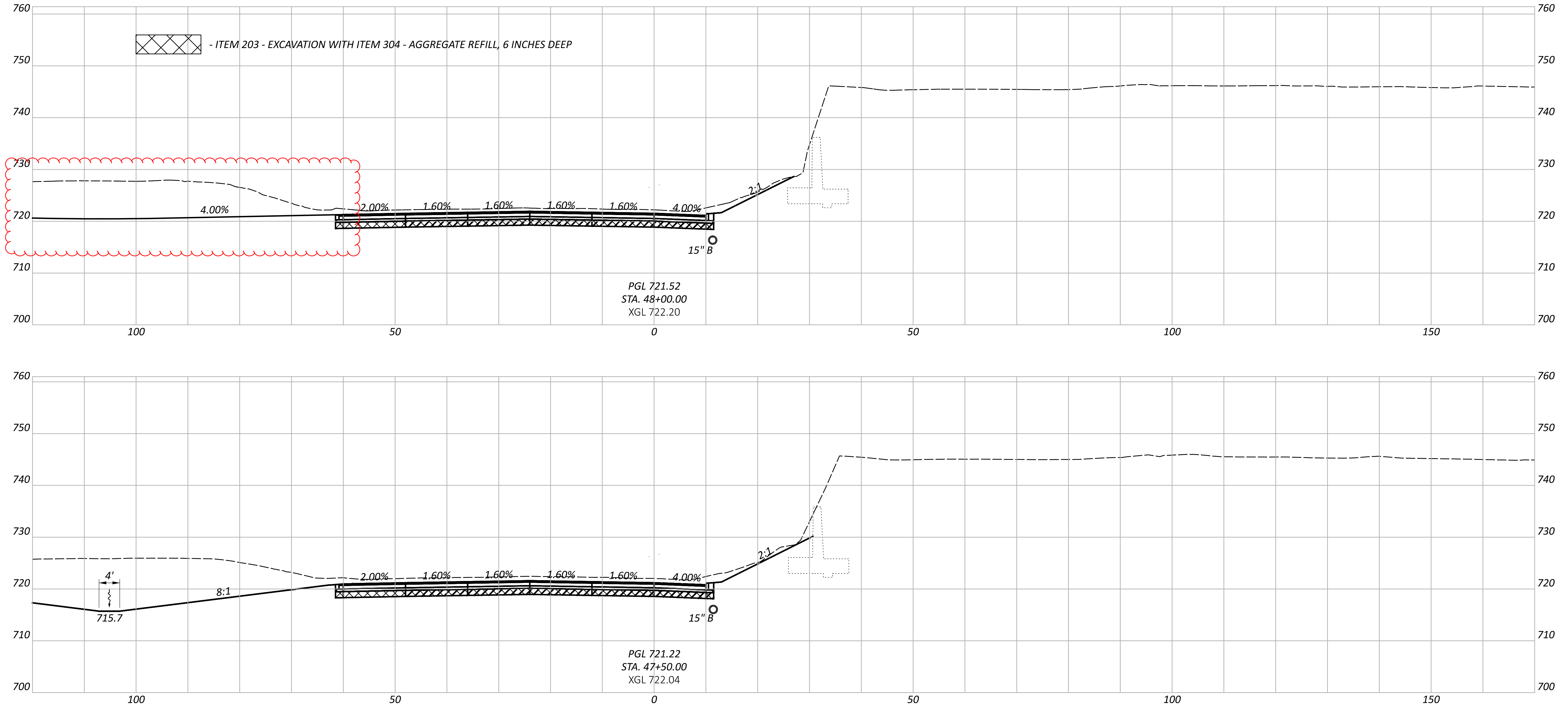
DESIGN AGENCY		AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER	
REVIEWER	VDK 08/09/23	
PROJECT ID	76779	
SHEET TOTAL	P.0351	P.1587

DRAINAGE ESTIMATED QUANTITIES



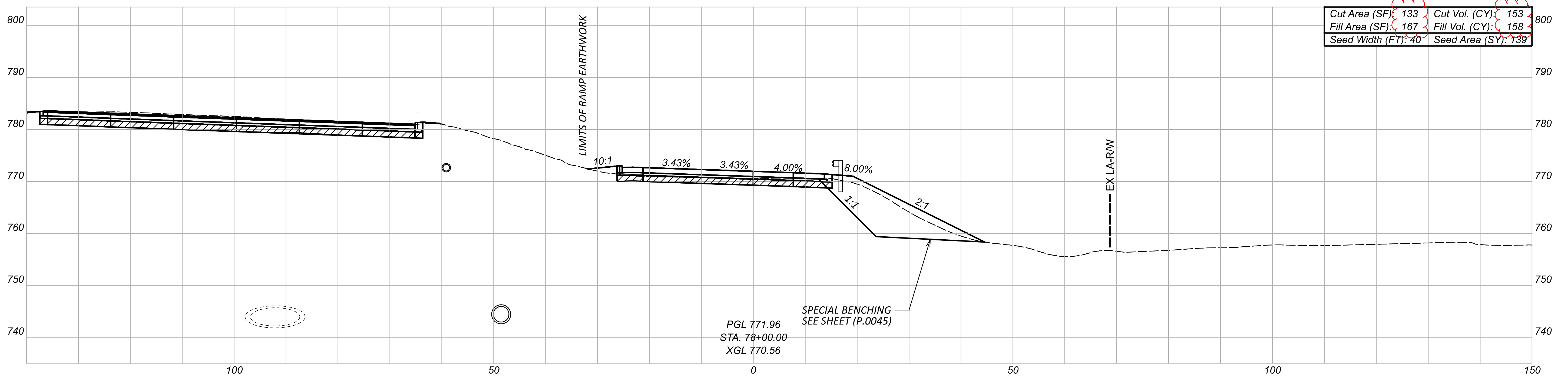
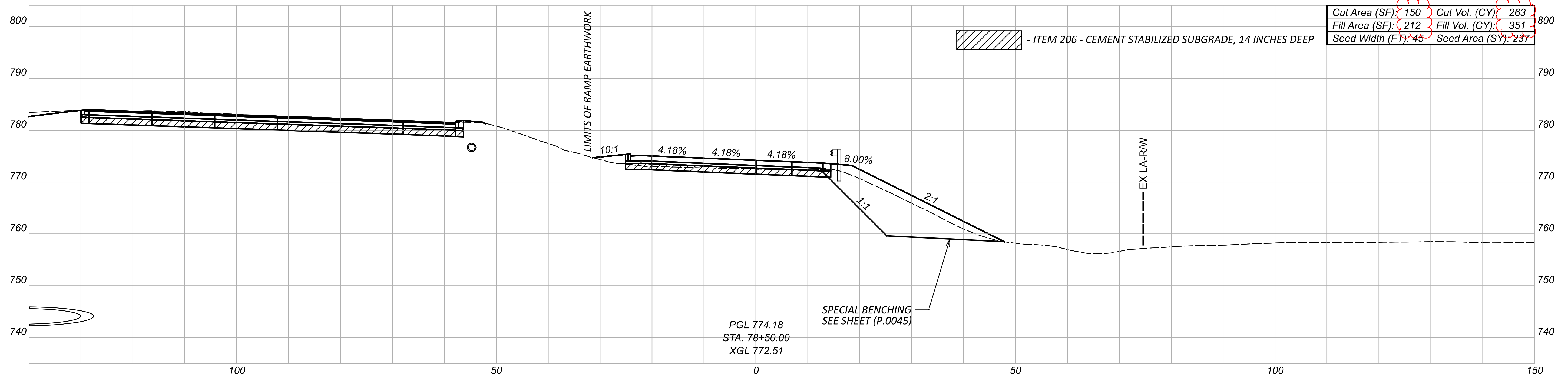
CROSS SECTIONS - IR 90 WB
 STA 47+50.00 TO STA 48+00.00

DESIGN AGENCY	STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.0558	P.1587



CROSS SECTIONS - IR 90 EB
STA 47+50.00 TO STA 48+00.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0693 P.1587

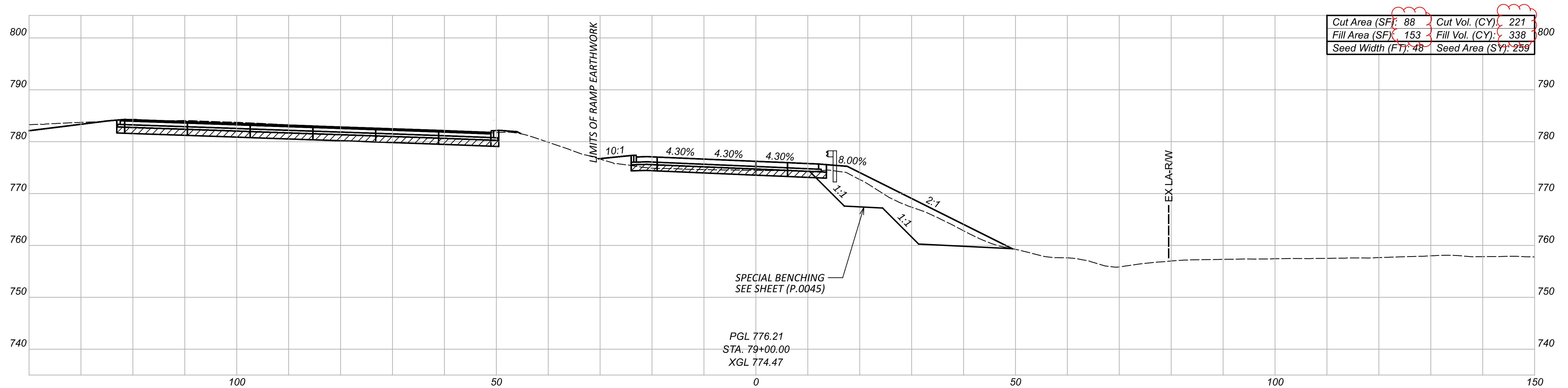
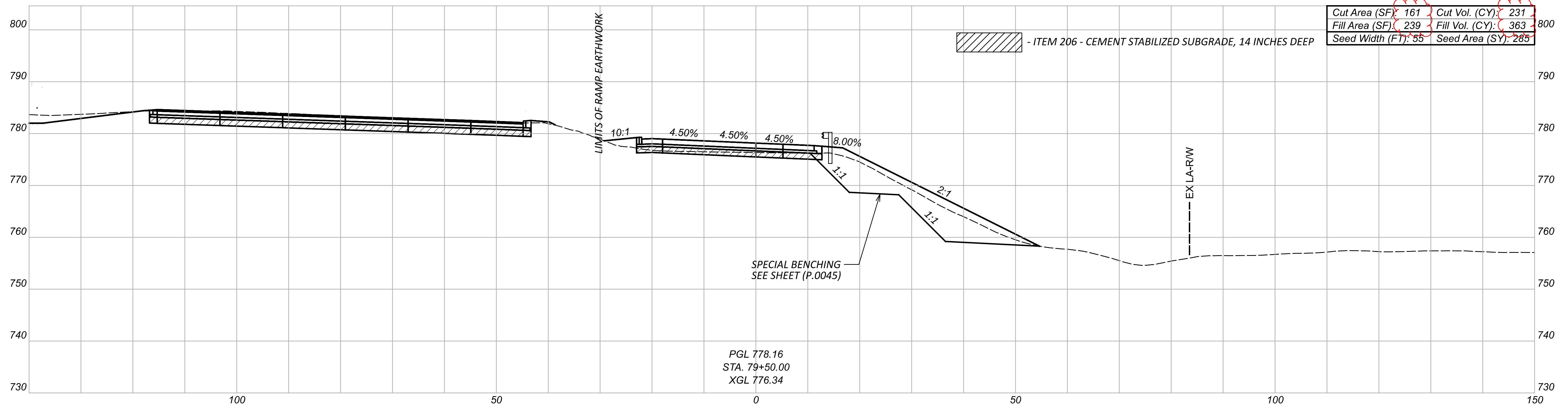


CROSS SECTIONS - RAMP 140-4 (140TH ST TO IR 90 EB)
 STA 78+00.00 TO STA 78+50.00



DESIGNER
 CNK
 REVIEWER
 VDK 08/09/23
 PROJECT ID
 76779

Sheet Totals			76779	
Seeding	Cut	Fill	SHEET	TOTAL
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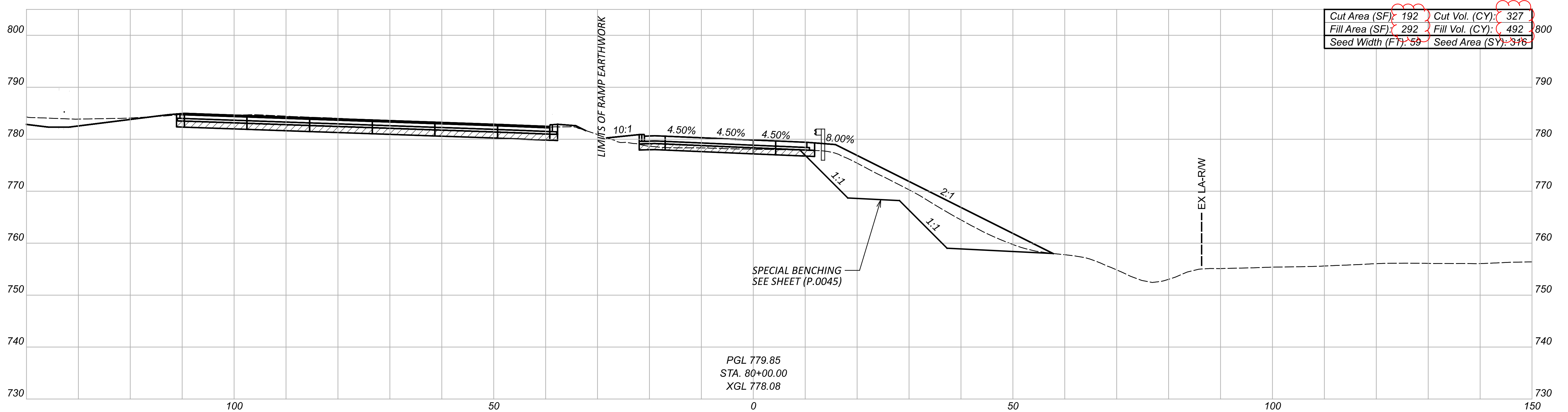
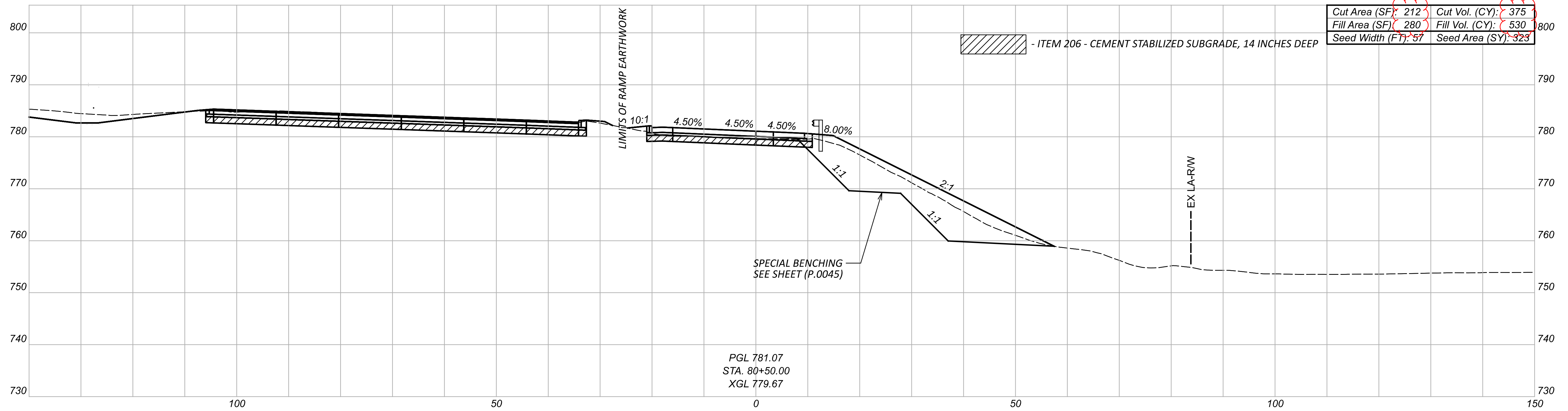


CROSS SECTIONS - RAMP 140-4 (140TH ST TO IR 90 EB)
 STA 79+00.00 TO STA 79+50.00



DESIGN AGENCY
 DESIGNER CNK
 REVIEWER VDK 08/09/23
 PROJECT ID 76779

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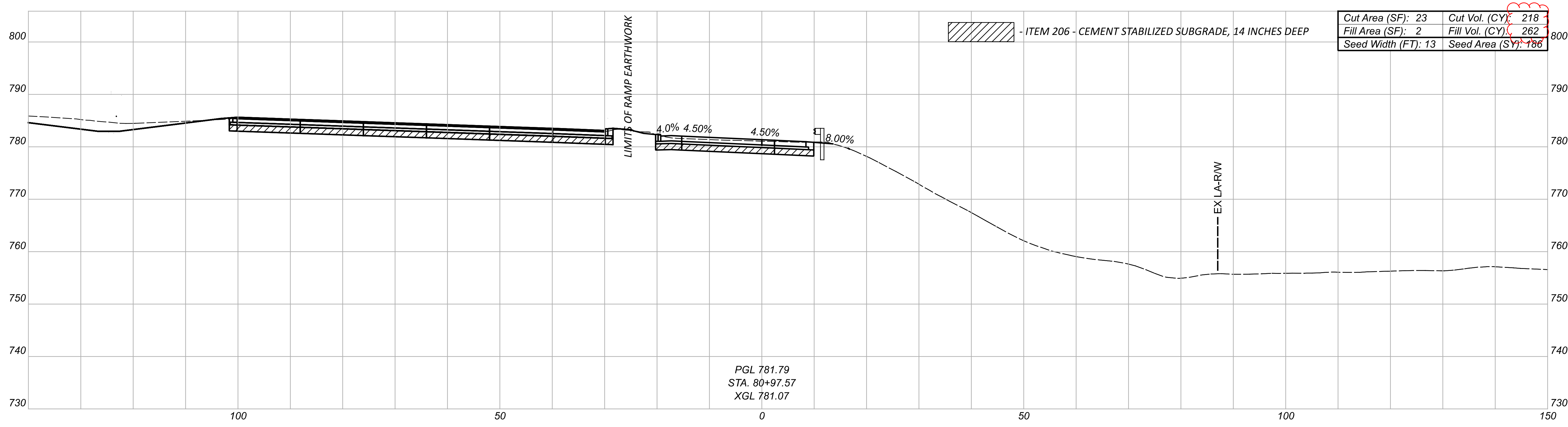


CROSS SECTIONS - RAMP 140-4 (140TH ST TO IR 90 EB)
 STA 80+00.00 TO STA 80+50.00



DESIGNER: CNK
 REVIEWER: VDK 08/09/23
 PROJECT ID: 76779

Sheet Totals		SHEET TOTAL	
Seeding	Cut	Fill	P.0895
639	702	1022	P.1587



PGL 781.79
STA. 80+97.57
XGL 781.07

CROSS SECTIONS - RAMP 140-4 (140TH ST TO IR 90 EB)
STA 80+97.57

DESIGN AGENCY

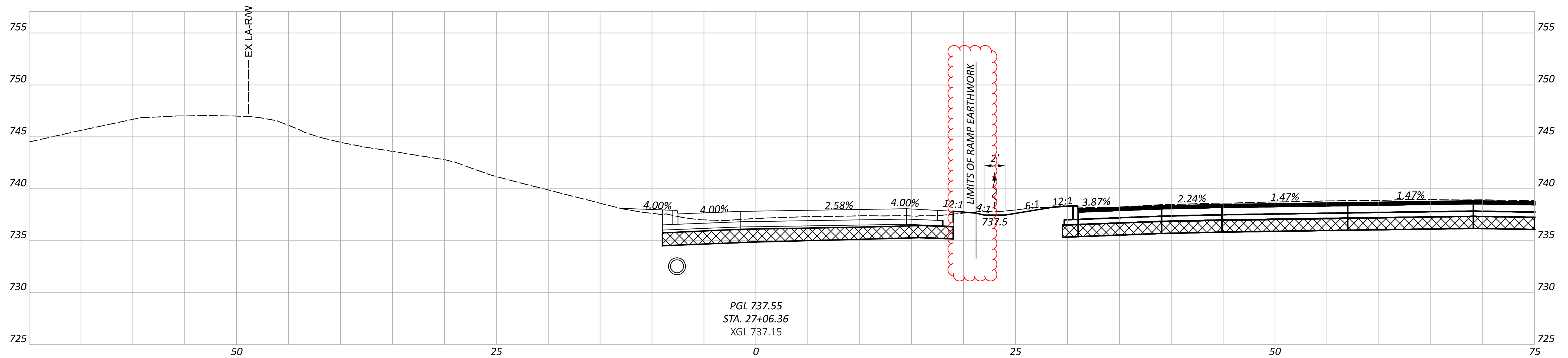
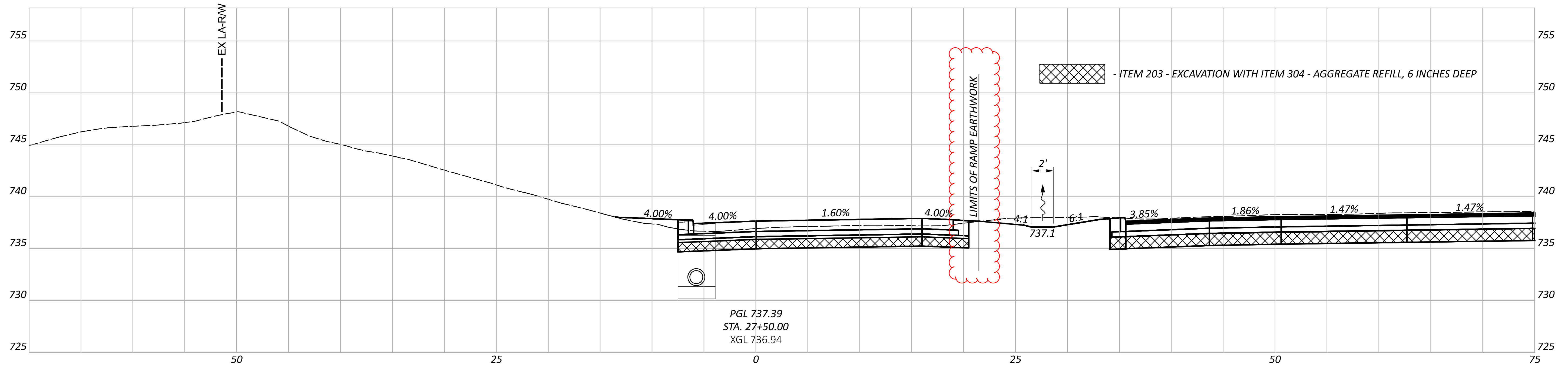
 300 HUNTER STREET
 SUITE 200
 COLUMBUS, OHIO 43215
 P: 614.290.8999
 MOODY-ENG.COM

DESIGNER
CNK

REVIEWER
VDK 08/09/23

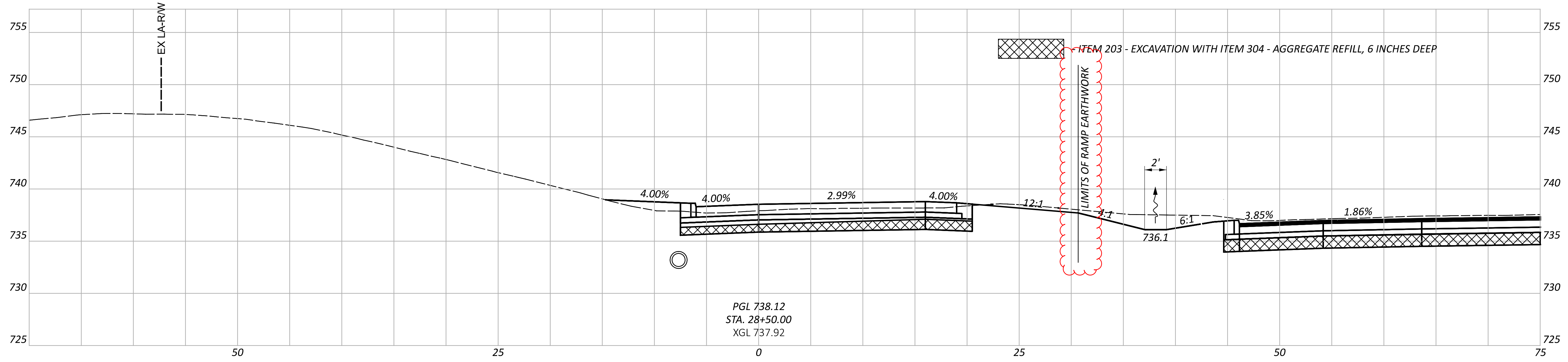
PROJECT ID
76779

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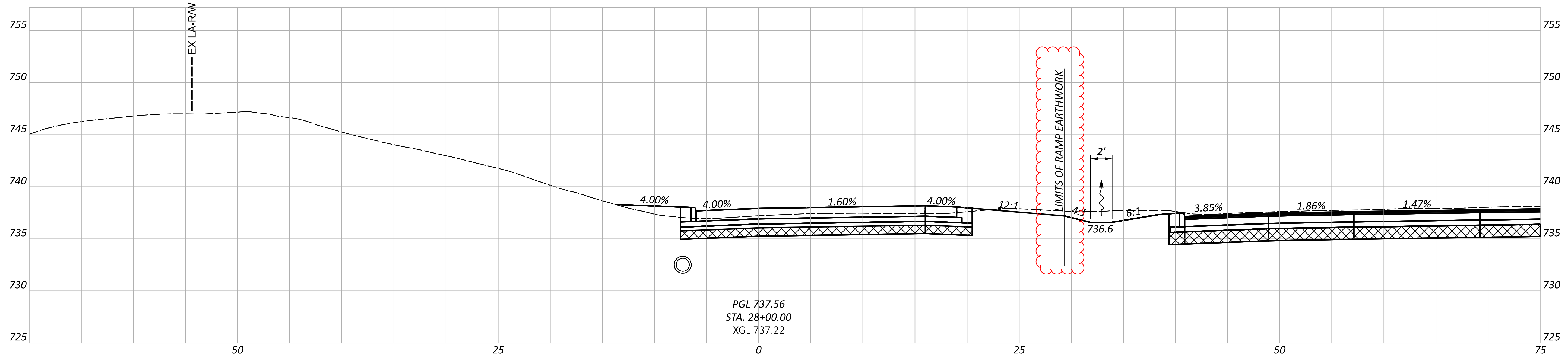


CROSS SECTIONS - RAMP 117-5
 STA 27+06.36 TO STA 27+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0897
TOTAL	P.1587



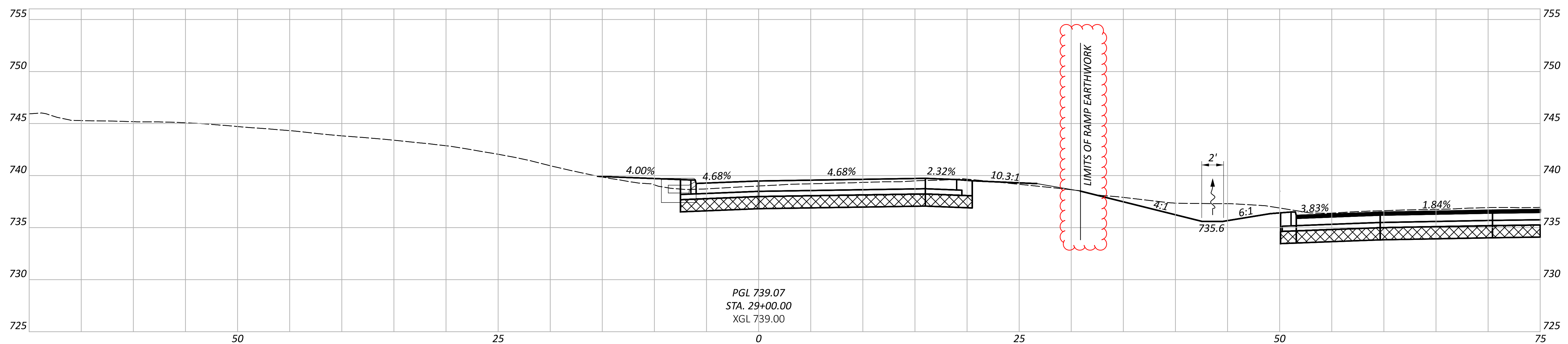
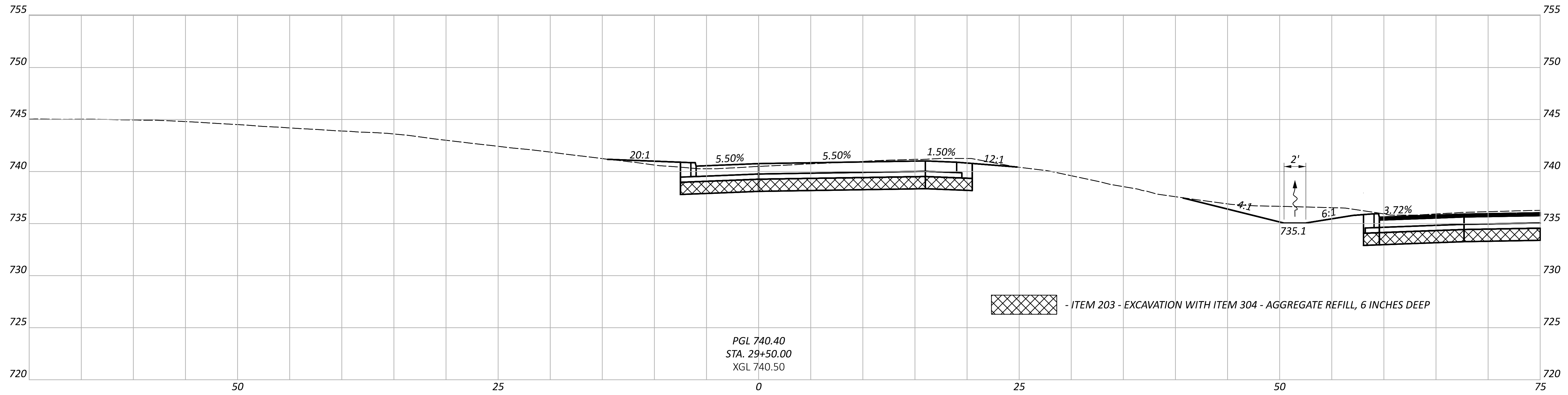
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 STA. 28+50.00
 XGL 737.92



PGL 737.56
 STA. 28+00.00
 XGL 737.22

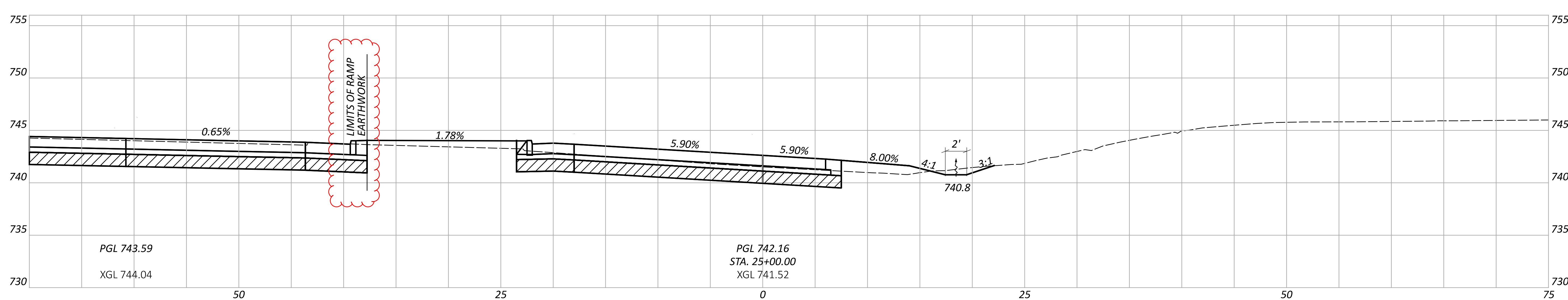
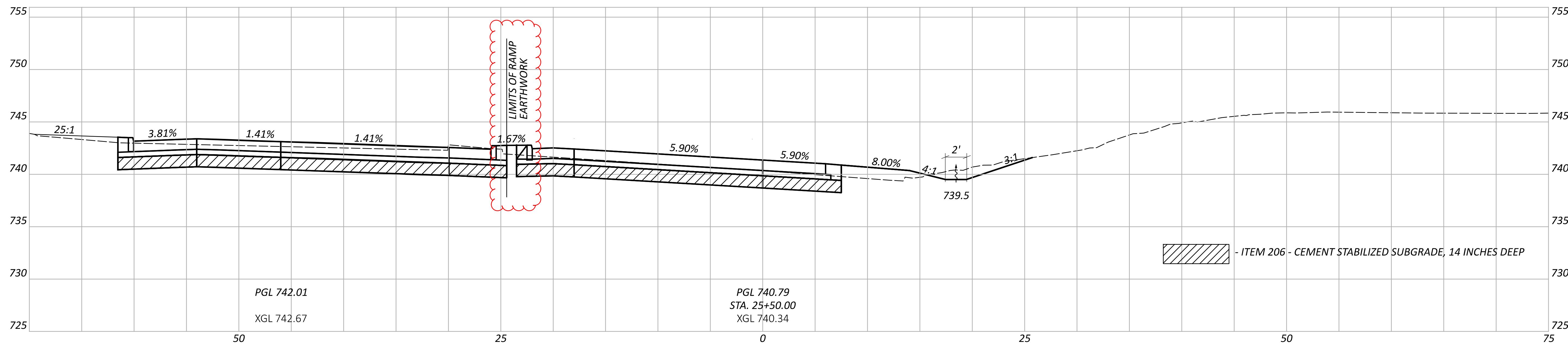
CROSS SECTIONS - RAMP 117-5
 STA 28+00.00 TO STA 28+50.00

DESIGN AGENCY	STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.0898	P.1587



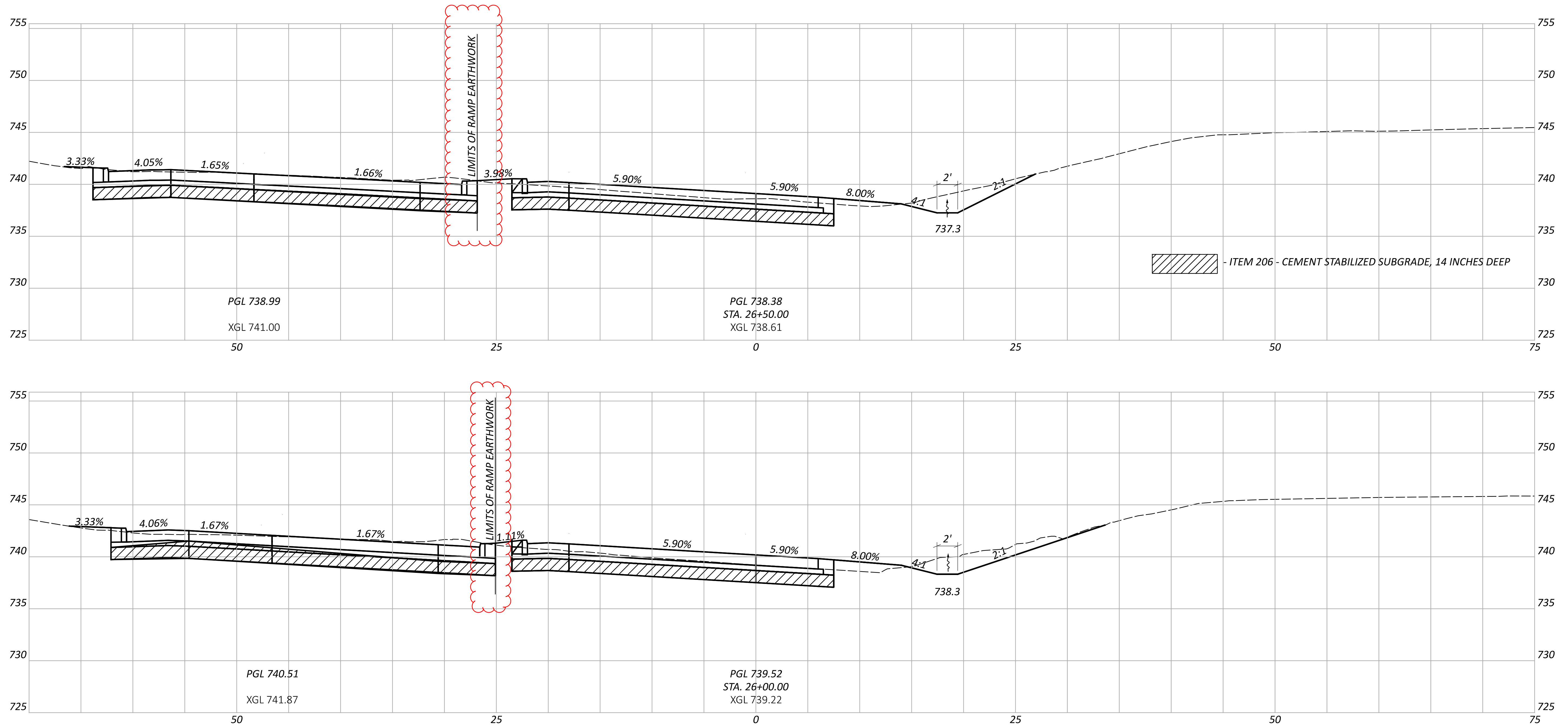
CROSS SECTIONS - RAMP 117-5
STA 29+00.00 TO STA 29+50.00

DESIGN AGENCY	STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0899
TOTAL	P.1587



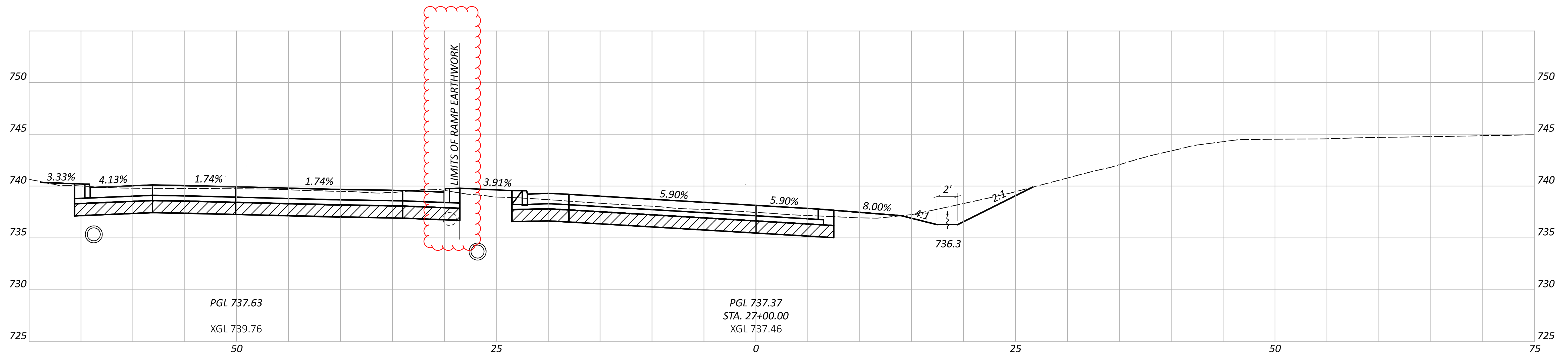
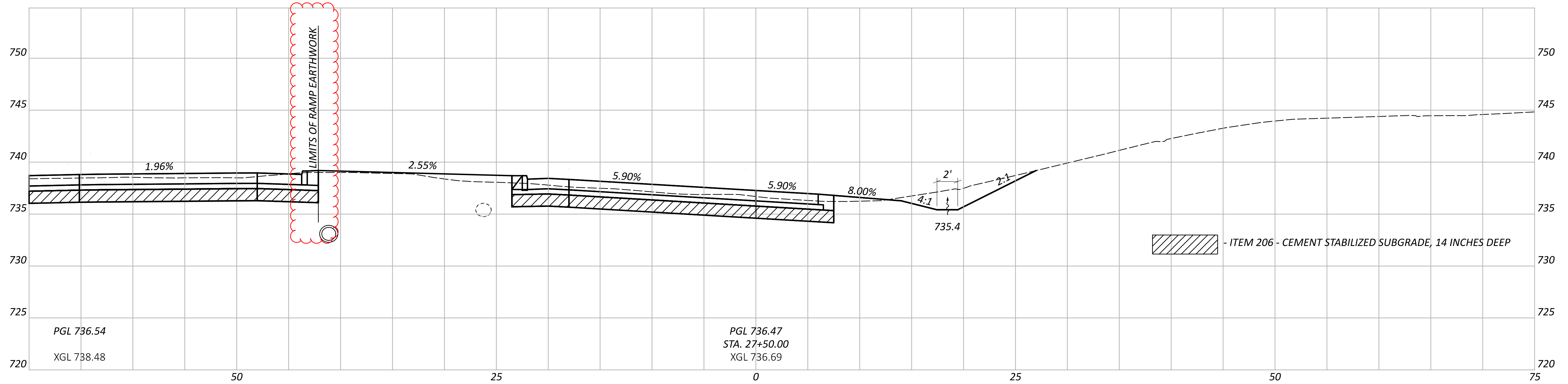
CROSS SECTIONS - RAMP 117-7
 STA 25+00.00 TO STA 25+50.00

DESIGN AGENCY	STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0907
TOTAL	P.1587



CROSS SECTIONS - RAMP 117-7
 STA 26+00.00 TO STA 26+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0908
TOTAL	P.1587



CROSS SECTIONS - RAMP 117-7
STA 27+00.00 TO STA 27+50.00

DESIGN AGENCY

STRUCTUREPOINT
INC.

DESIGNER

BER

REVIEWER

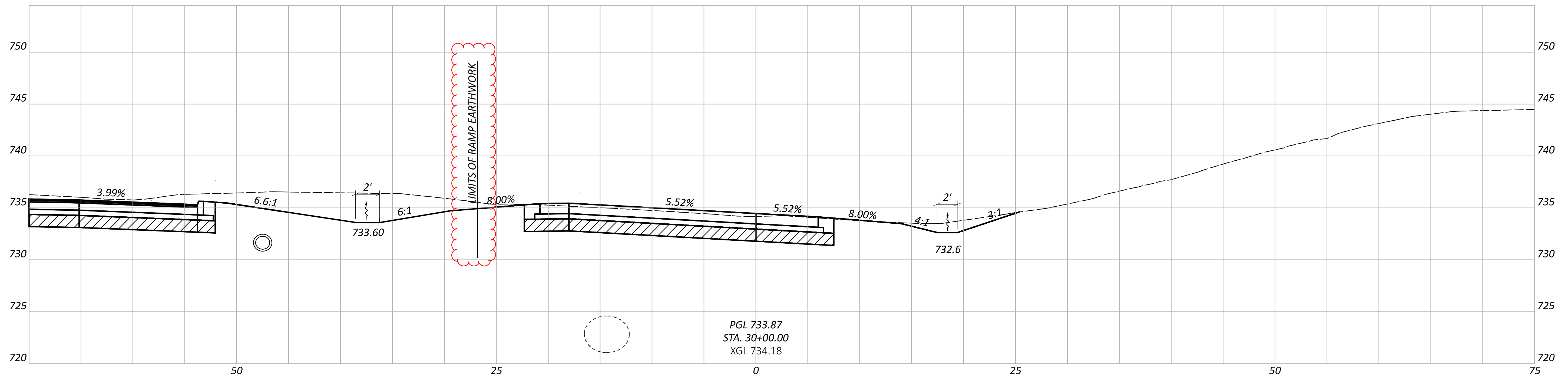
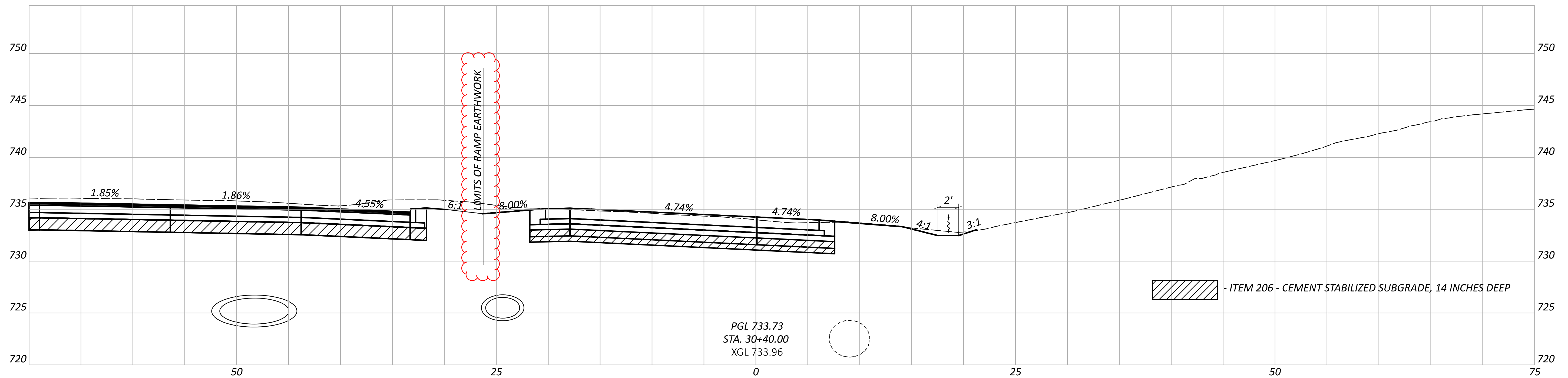
VDK 08/09/23

PROJECT ID

76779

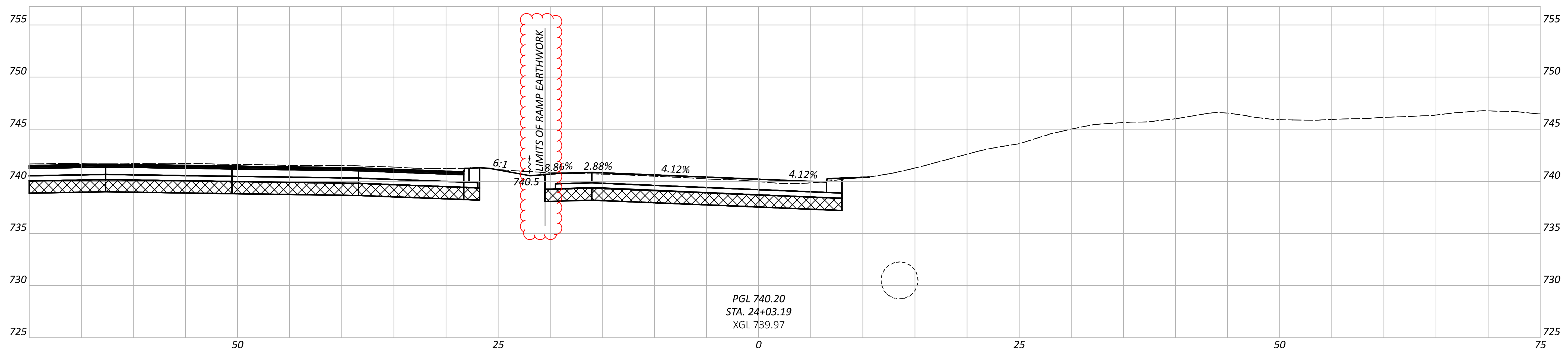
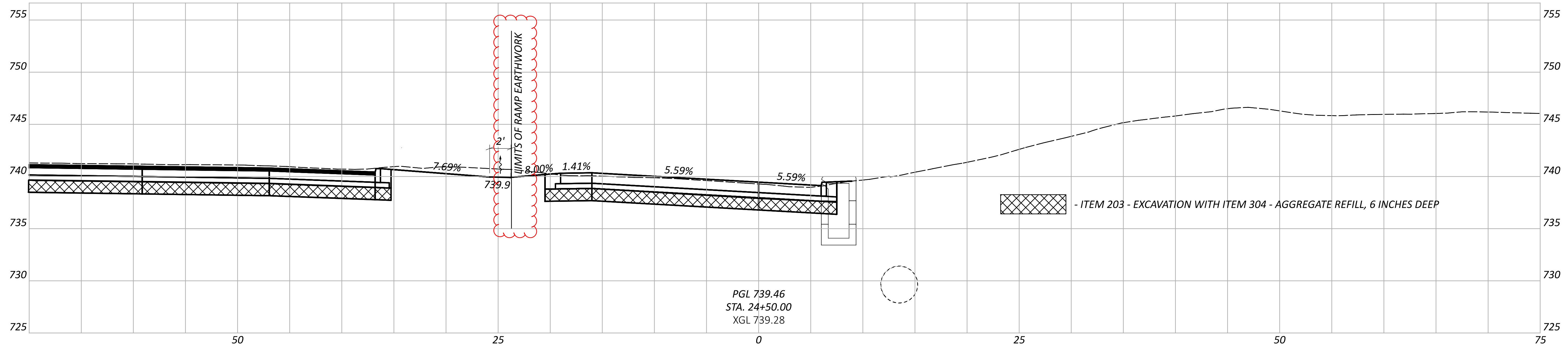
SHEET TOTAL

P.0909 P.1587



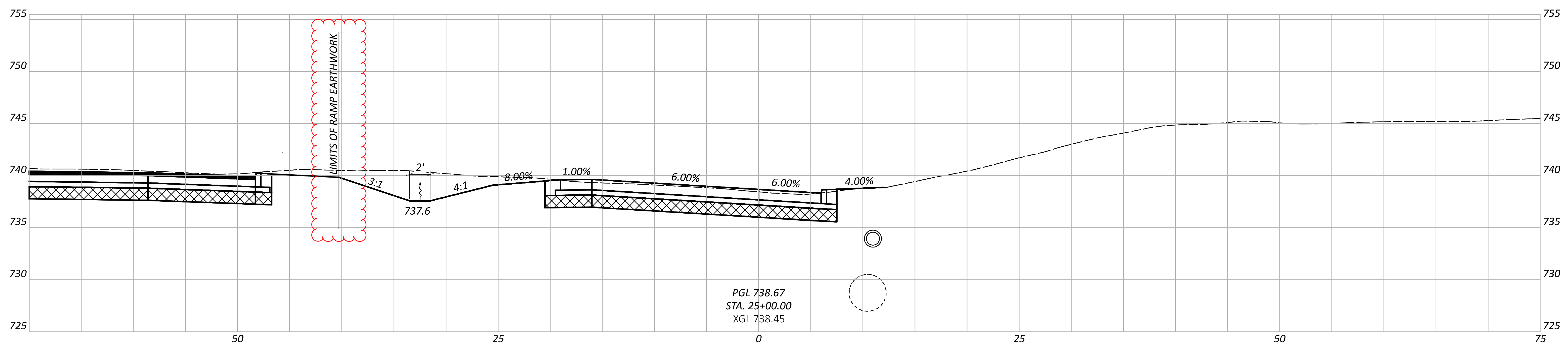
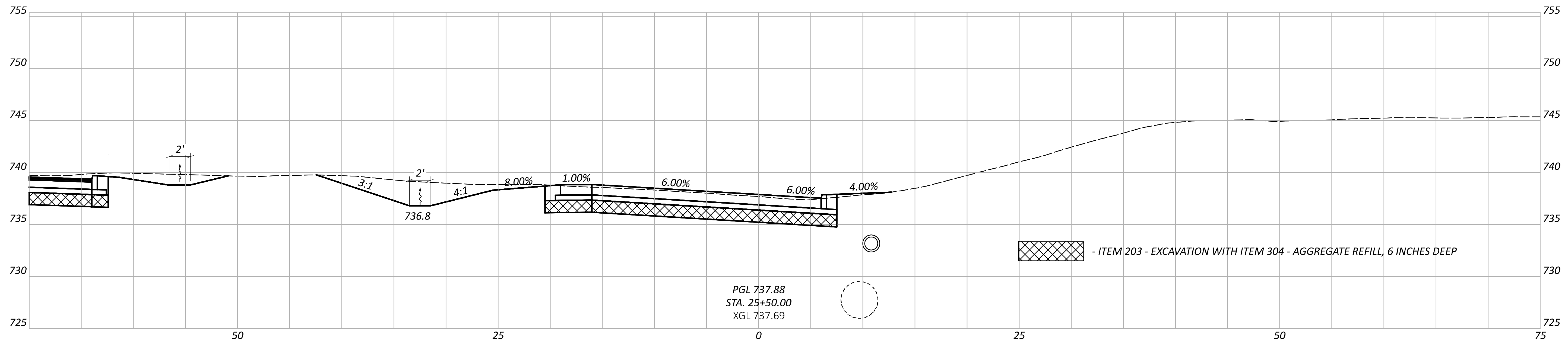
CROSS SECTIONS - RAMP 117-7
 STA 30+00.00 TO STA 30+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0912
TOTAL	P.1587



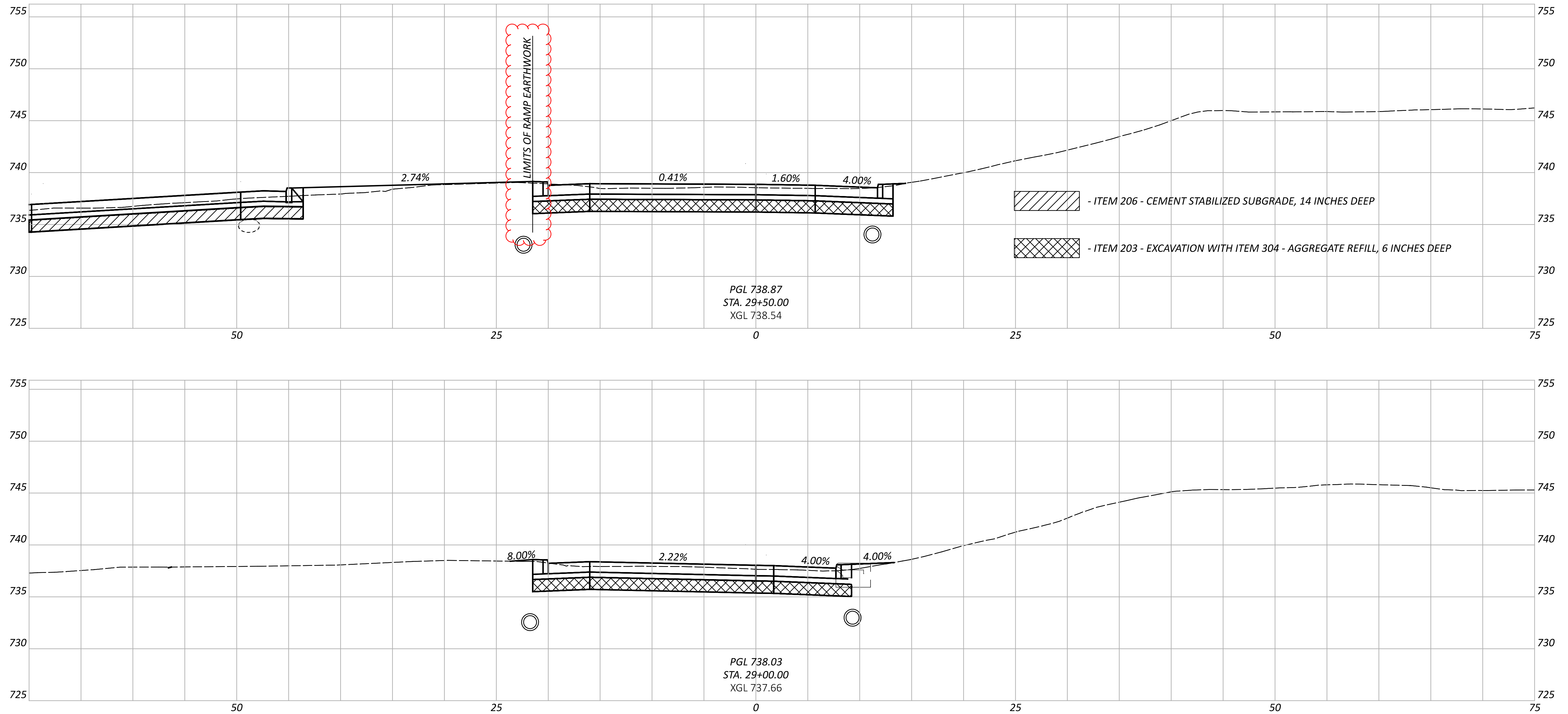
CROSS SECTIONS - RAMP 117-8
STA 24+03.19 TO STA 24+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.0913	P.1587



CROSS SECTIONS - RAMP 117-8
 STA 25+00.00 TO STA 25+50.00

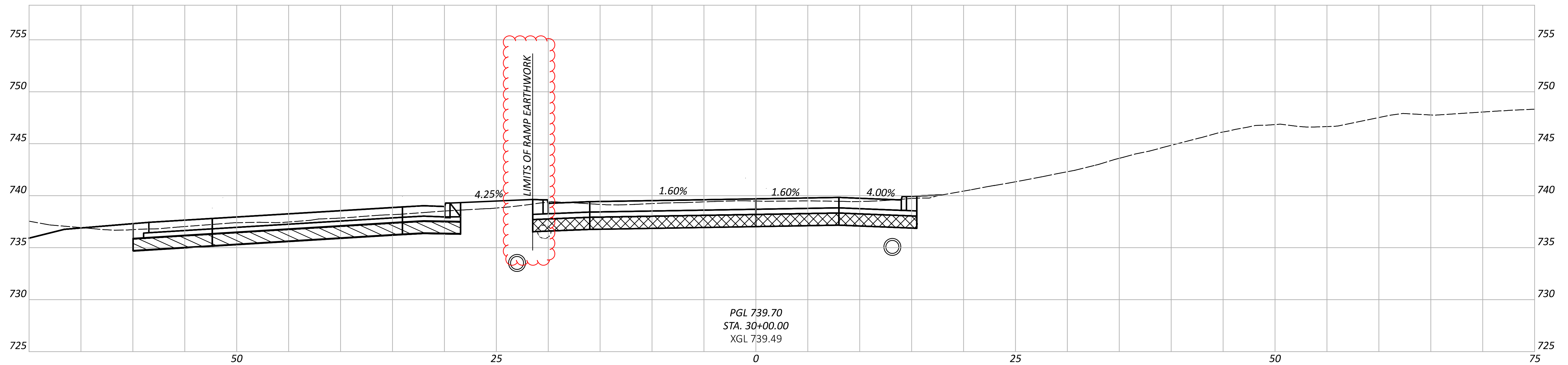
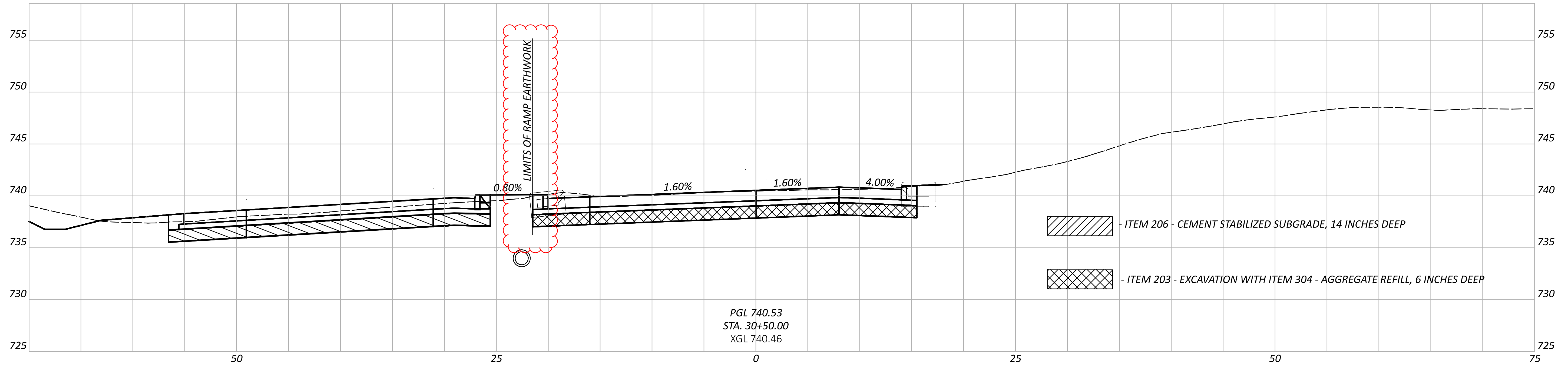
DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0914
TOTAL	P.1587



CROSS SECTIONS - RAMP 117-8
 STA 29+00.00 TO STA 29+50.00

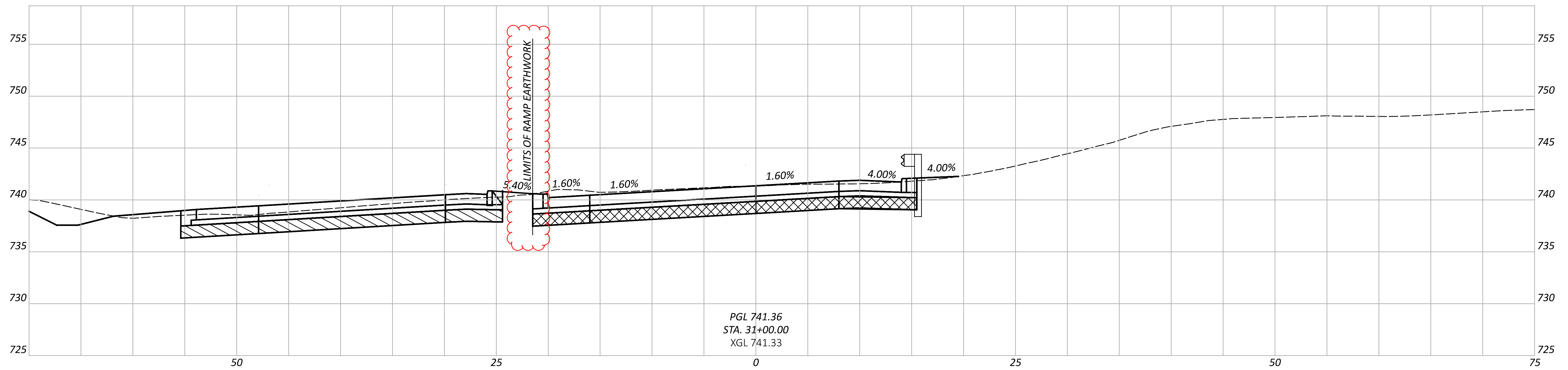
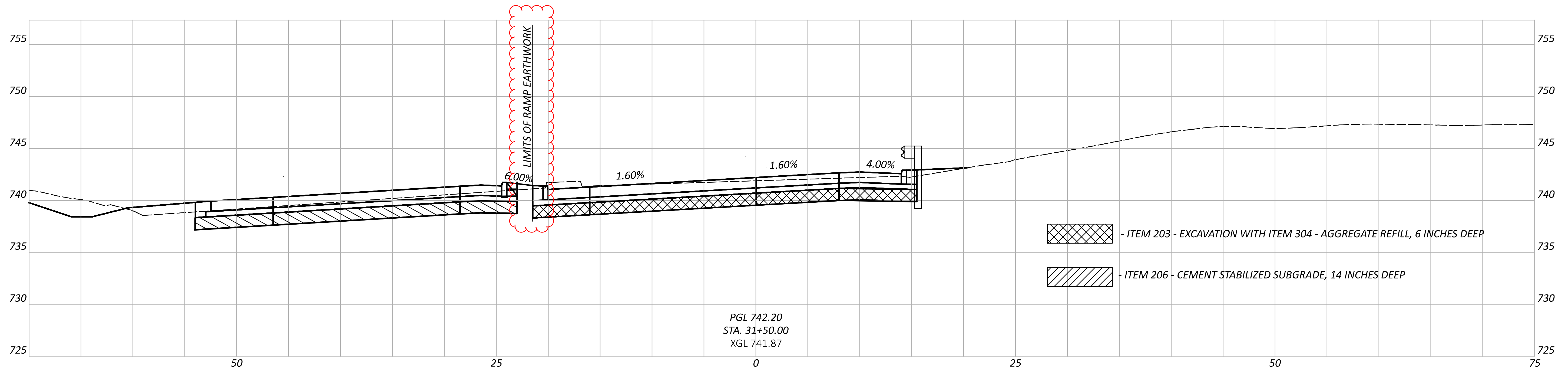
DESIGN AGENCY
STRUCTUREPOINT
 INC.
 DESIGNER
 BER
 REVIEWER
 VDK 08/09/23
 PROJECT ID
 76779

Sheet Totals			76779	
Seeding	Cut	Fill	SHEET	TOTAL
.	.	.	P.0918	P.1587



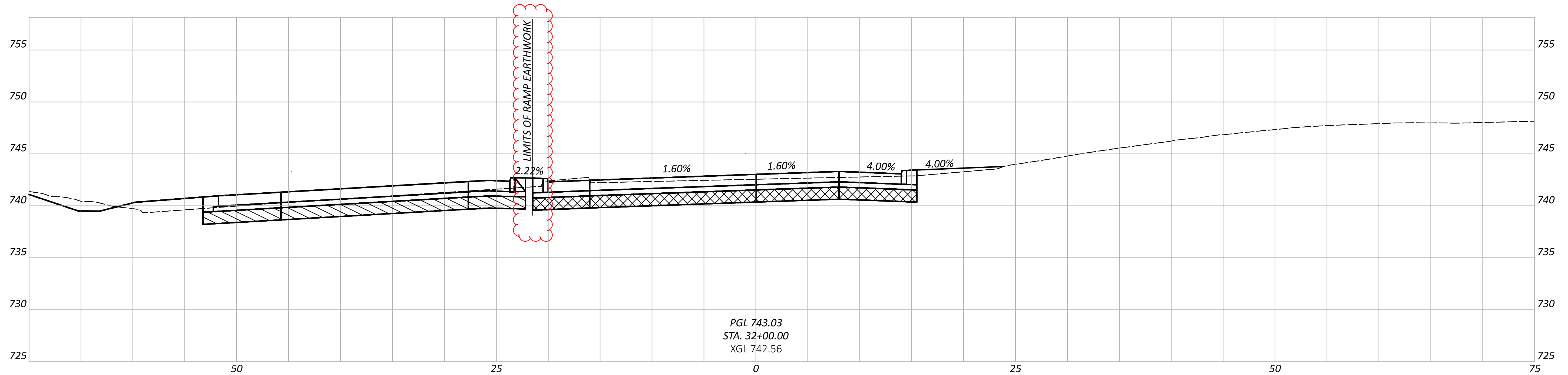
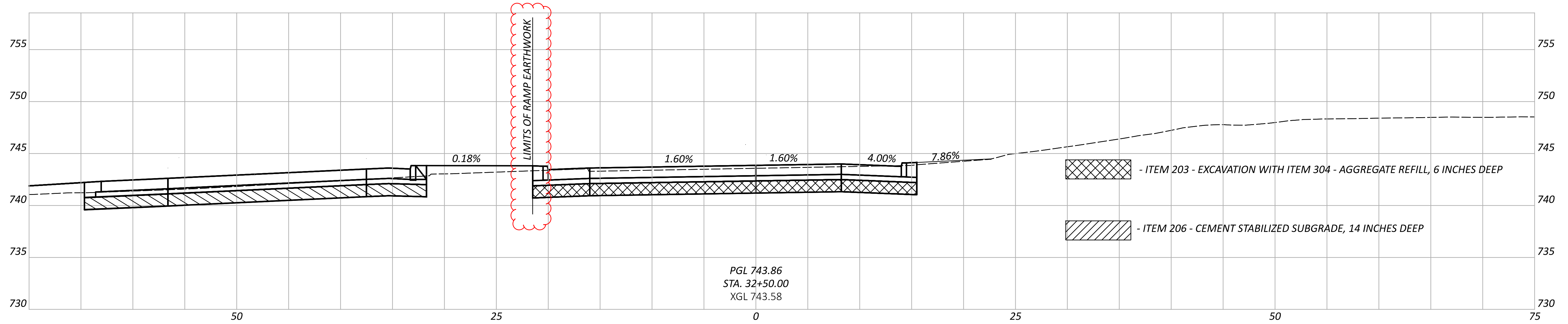
CROSS SECTIONS - RAMP 117-8
 STA 30+00.00 TO STA 30+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0919
TOTAL	P.1587



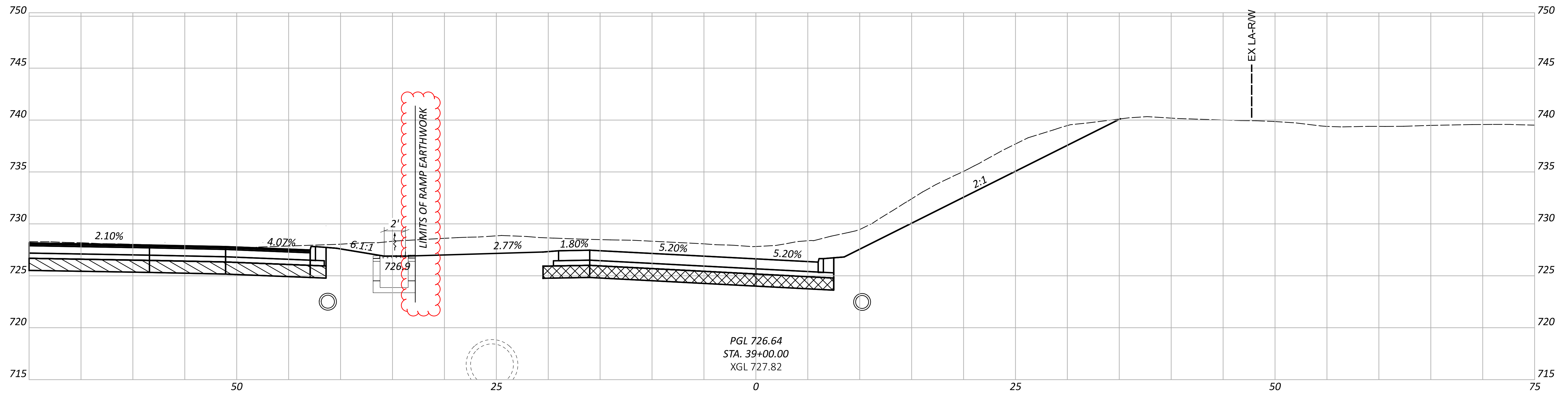
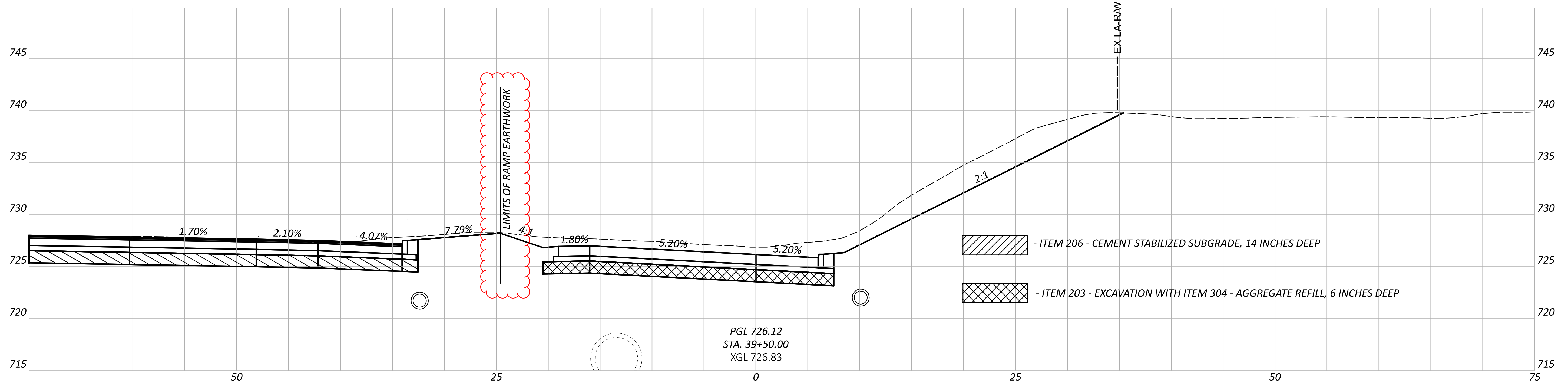
CROSS SECTIONS - RAMP 117-8
STA 31+00.00 TO STA 31+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0920
TOTAL	P.1587



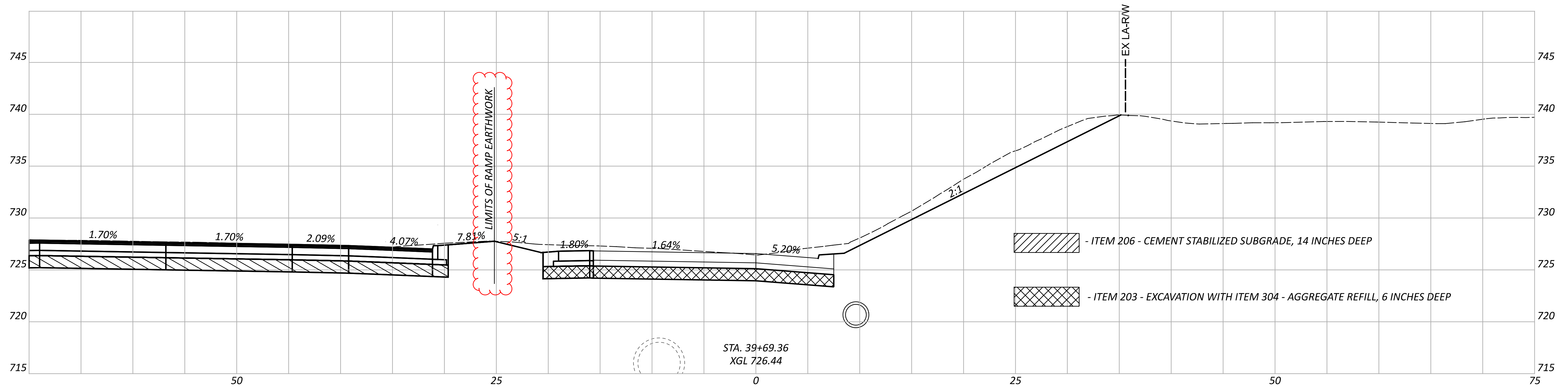
CROSS SECTIONS - RAMP 117-8
 STA 32+00.00 TO STA 32+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0921
TOTAL	P.1587



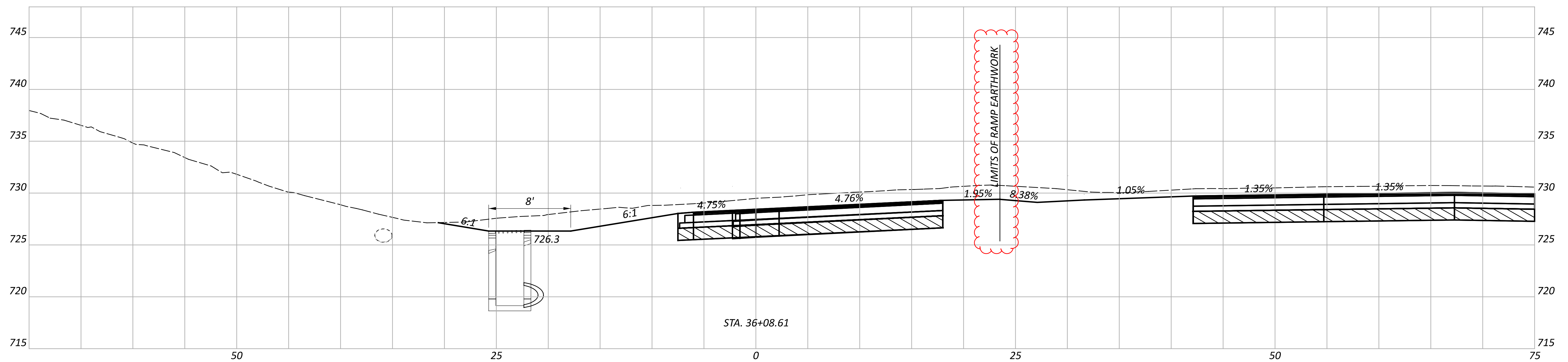
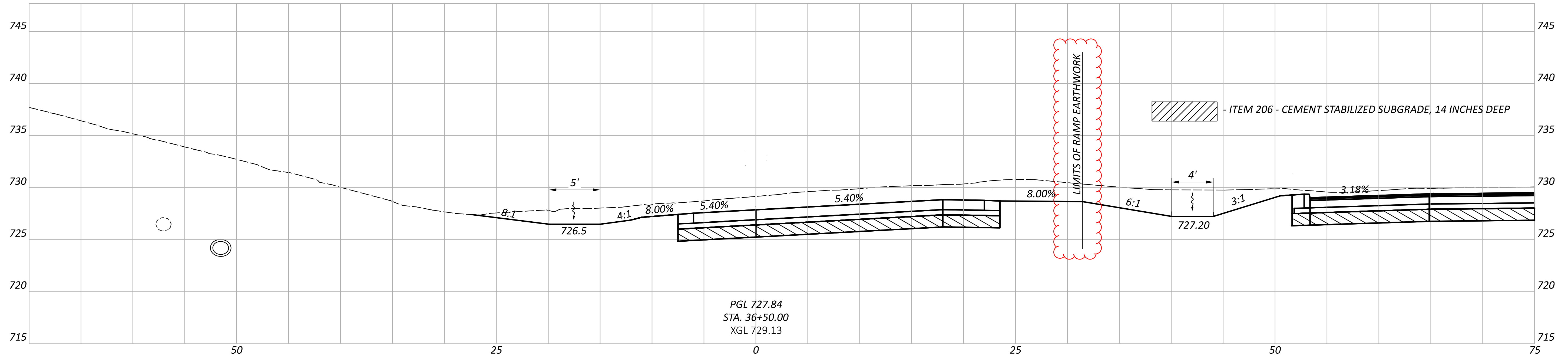
CROSS SECTIONS - RAMP 117-9
STA 39+00.00 TO STA 39+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0931 P.1587



CROSS SECTIONS - RAMP 117-9
STA 39+69.36

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0932
TOTAL	P.1587



CROSS SECTIONS - RAMP 117-11
STA 36+08.61 TO STA 36+50.00

DESIGN AGENCY

AMERICAN
STRUCTUREPOINT
INC.

DESIGNER

BER

REVIEWER

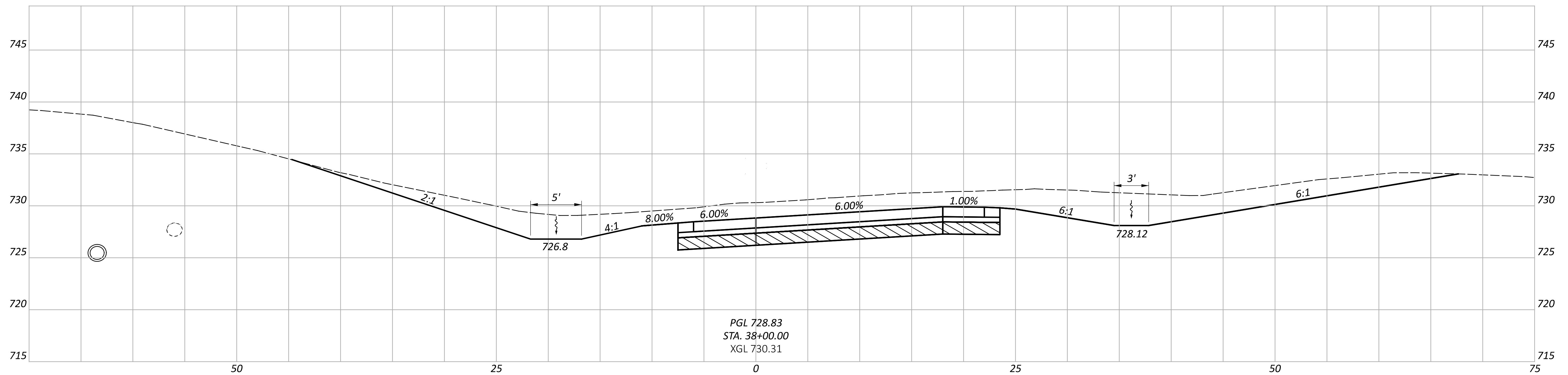
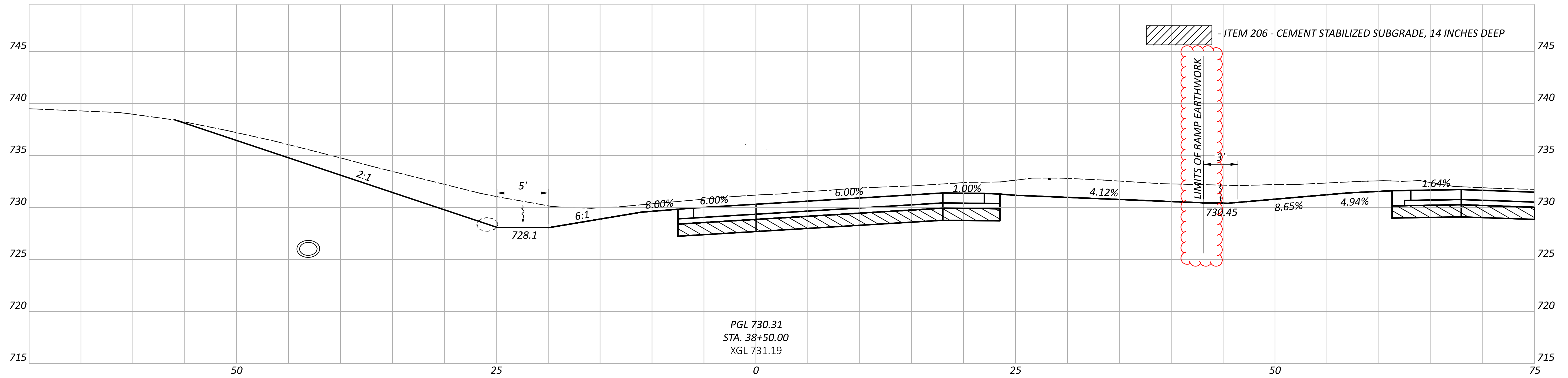
VDK 08/09/23

PROJECT ID

76779

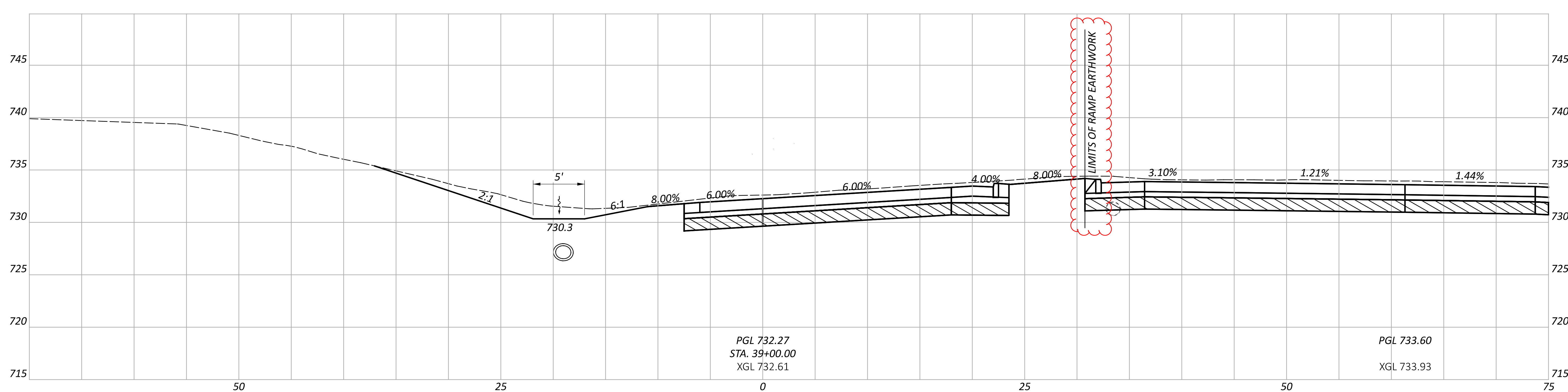
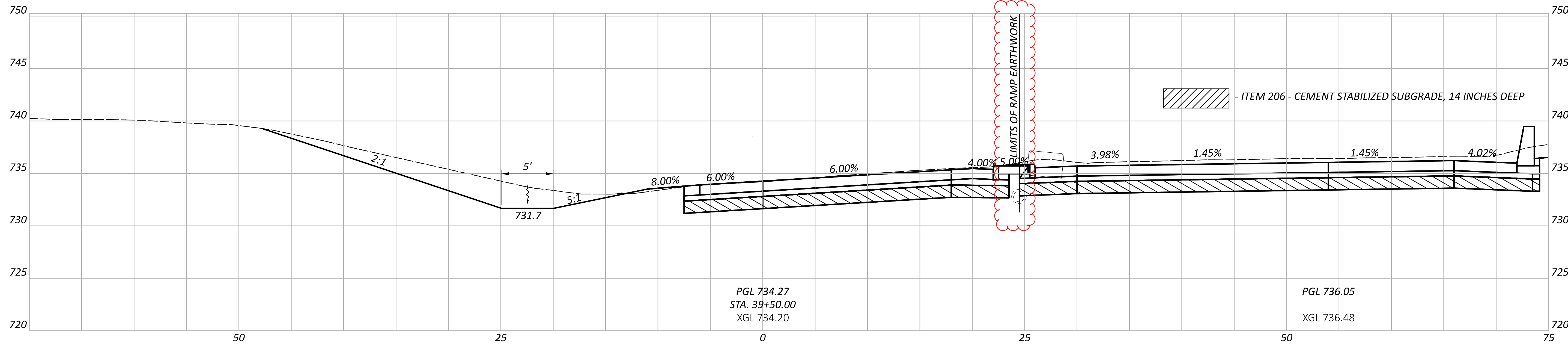
SHEET TOTAL

P.0933 P.1587



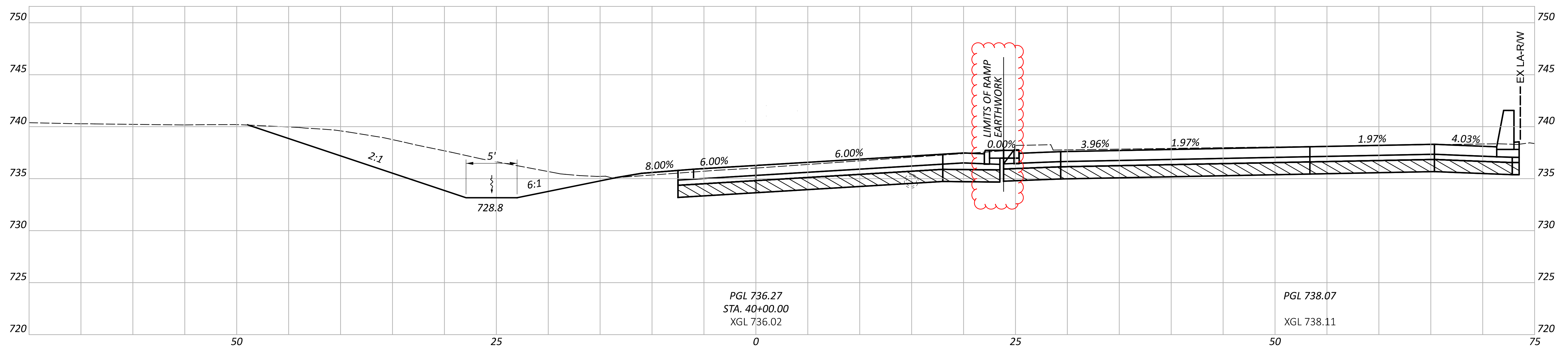
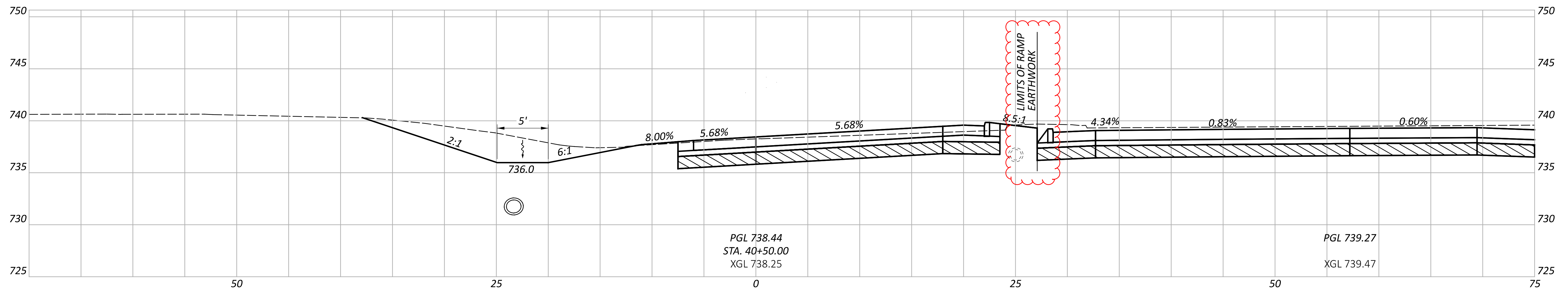
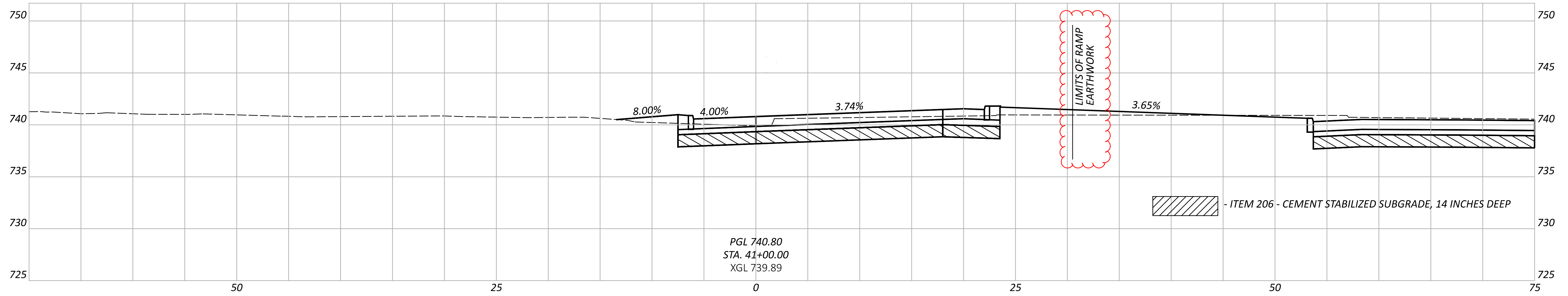
CROSS SECTIONS - RAMP 117-11
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DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0935 P.1587



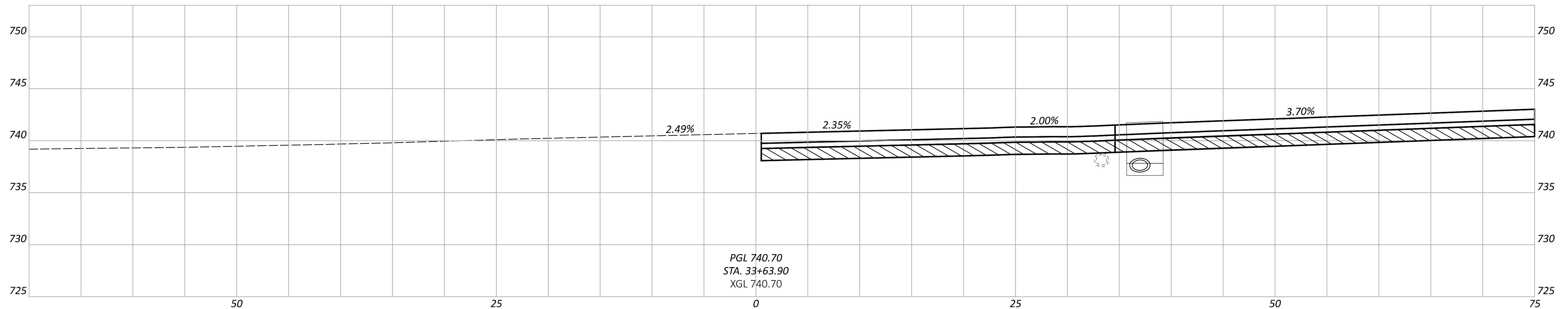
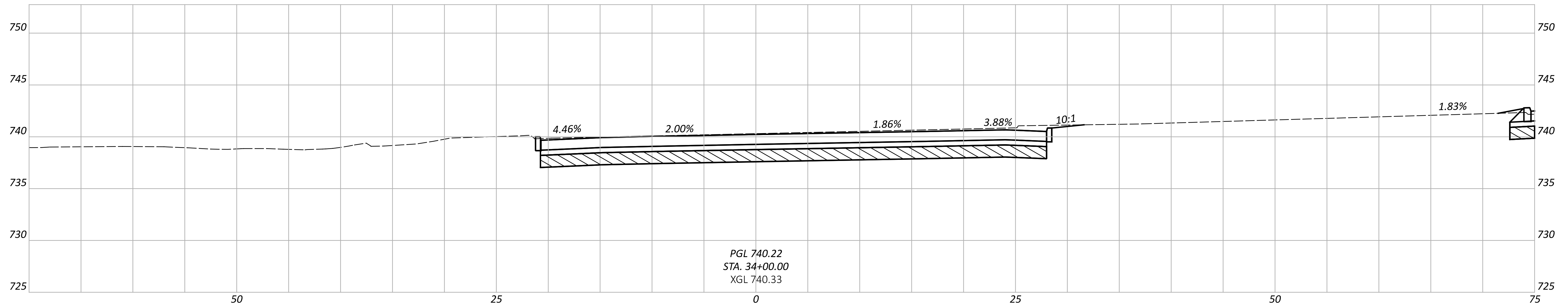
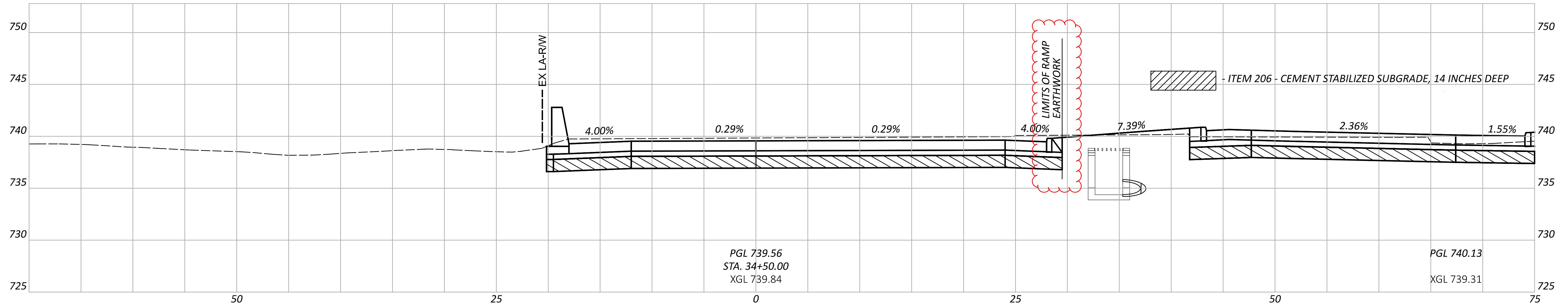
CROSS SECTIONS - RAMP 117-11
STA 39+00.00 TO STA 39+50.00

DESIGN AGENCY	STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0936
TOTAL	P.1587



CROSS SECTIONS - RAMP 117-11
STA 40+00.00 TO STA 41+00.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0937
TOTAL	P.1587



CROSS SECTIONS - RAMP 117-12
STA 33+63.90 TO STA 34+50.00

DESIGN AGENCY

STRUCTUREPOINT
INC.

DESIGNER

BER

REVIEWER

VDK 08/09/23

PROJECT ID

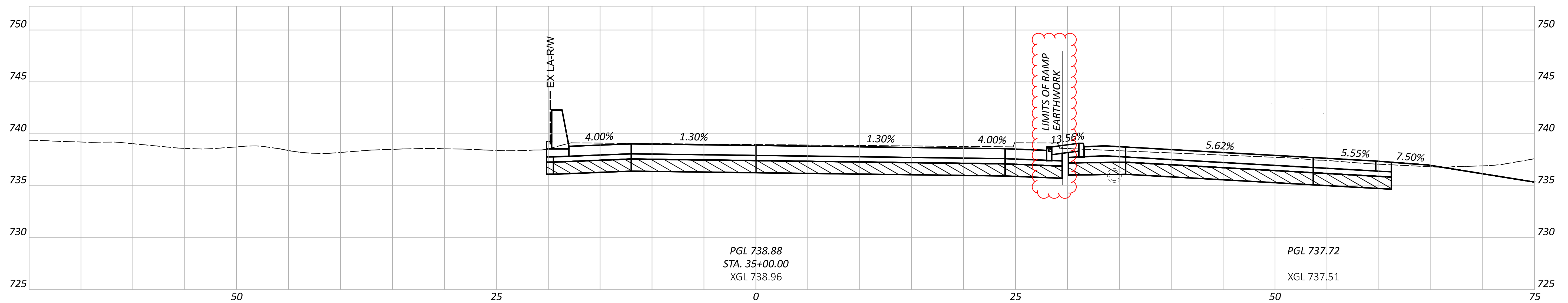
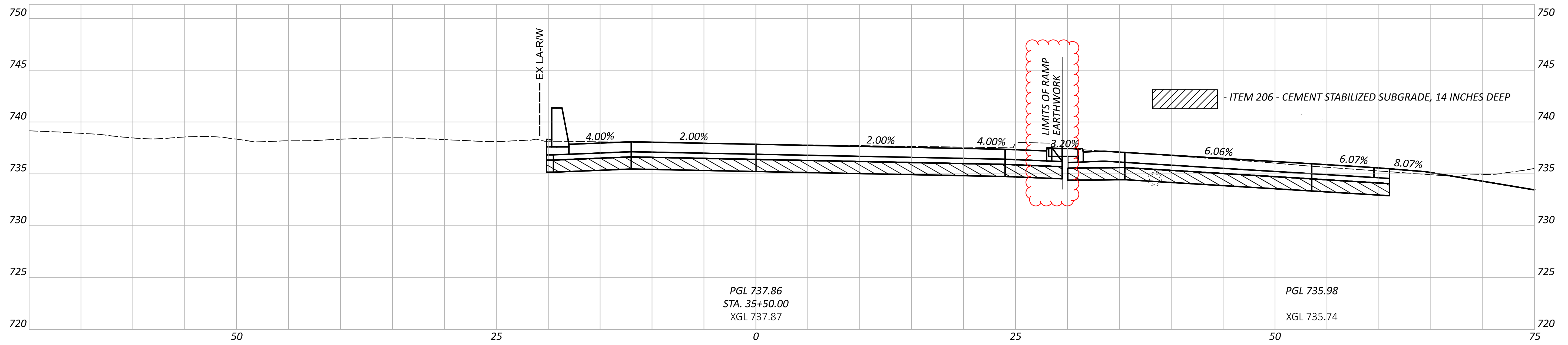
76779

SHEET

P.0941

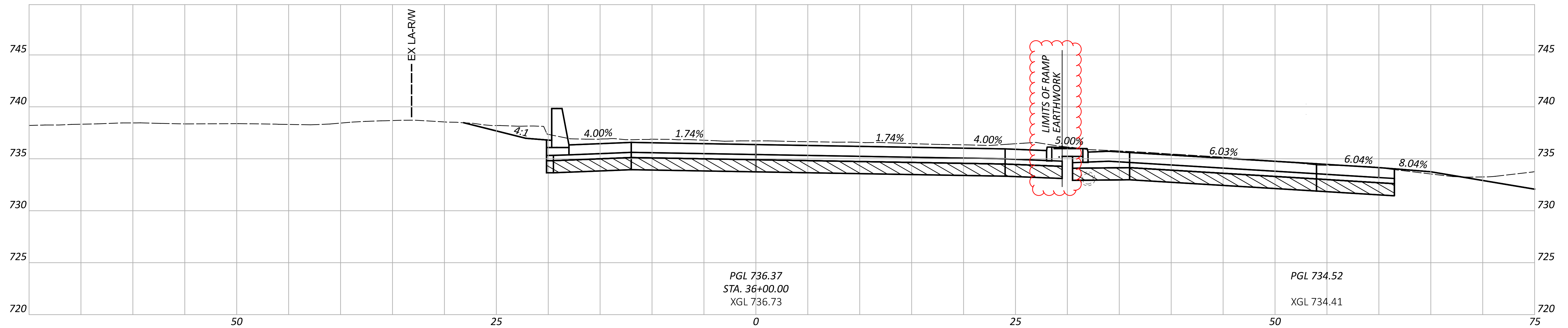
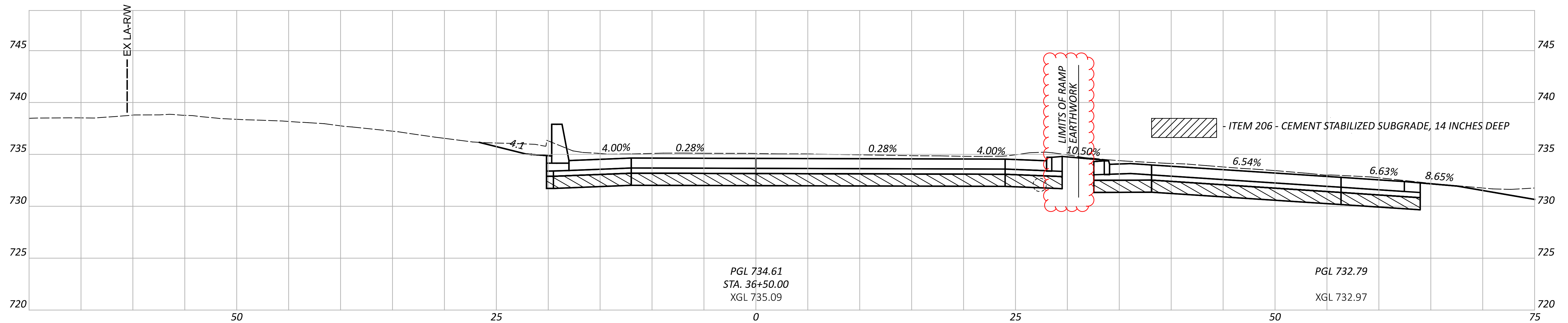
TOTAL

P.1587



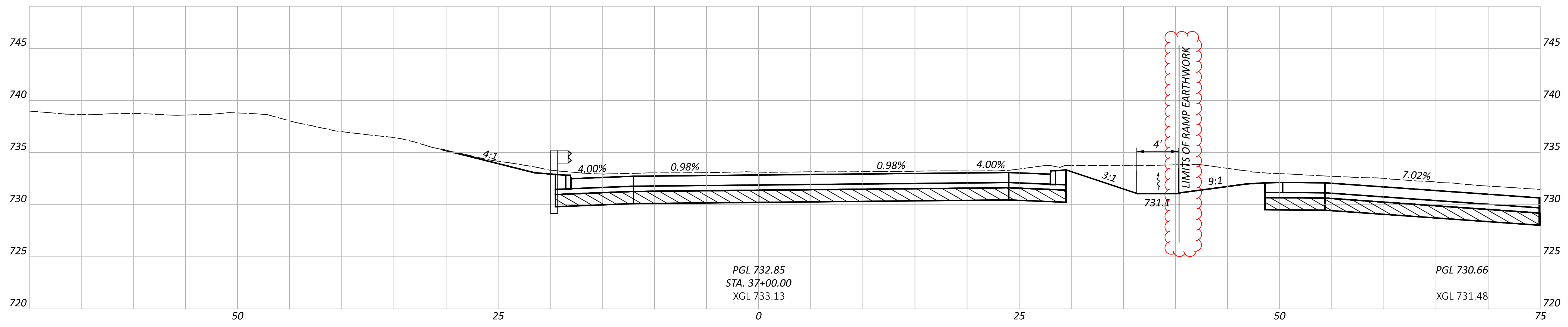
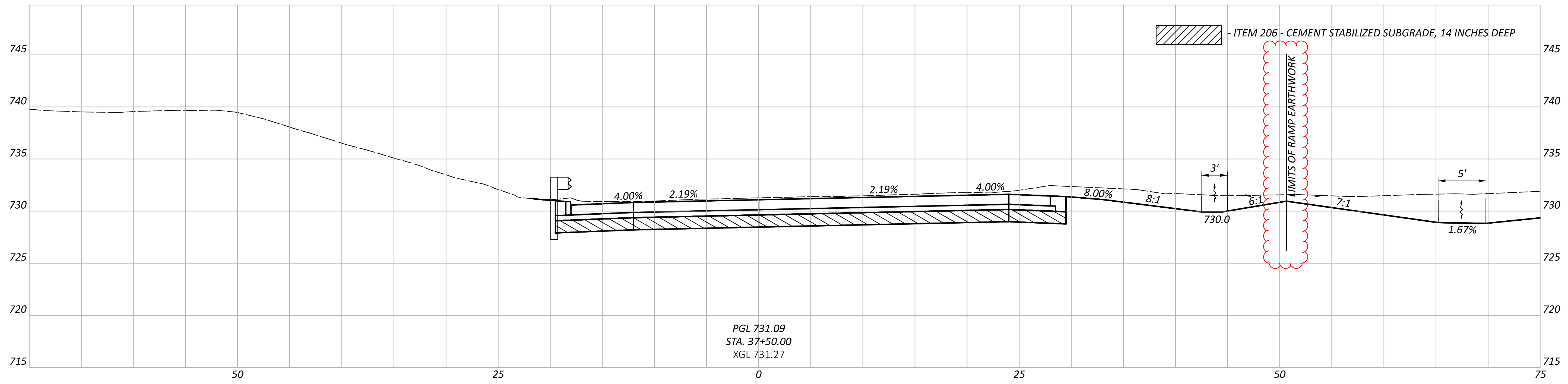
CROSS SECTIONS - RAMP 117-12
STA 35+00.00 TO STA 35+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0942
TOTAL	P.1587



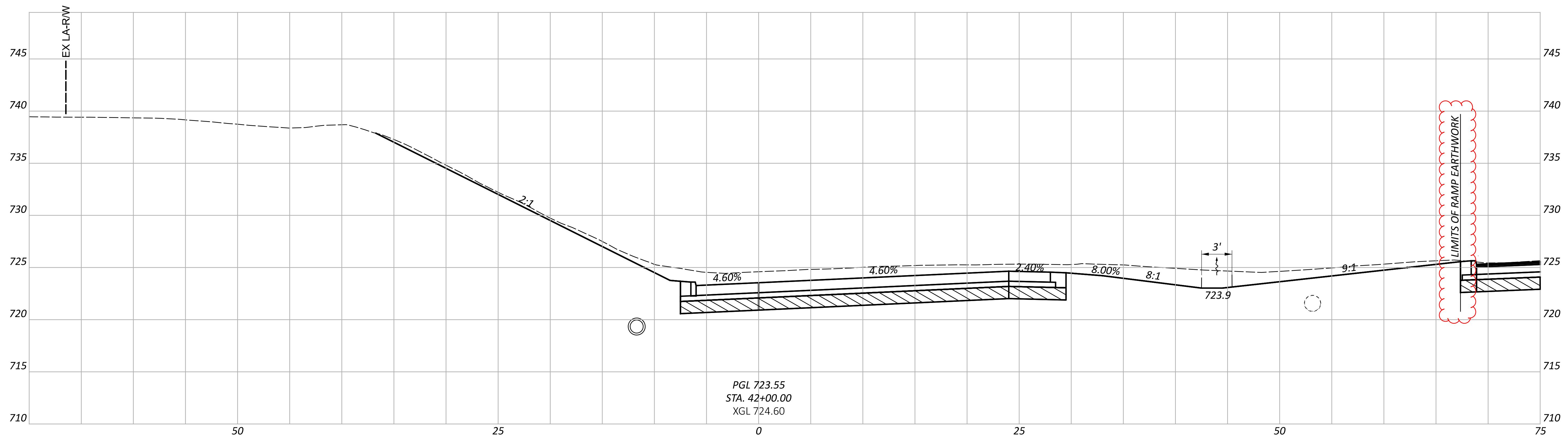
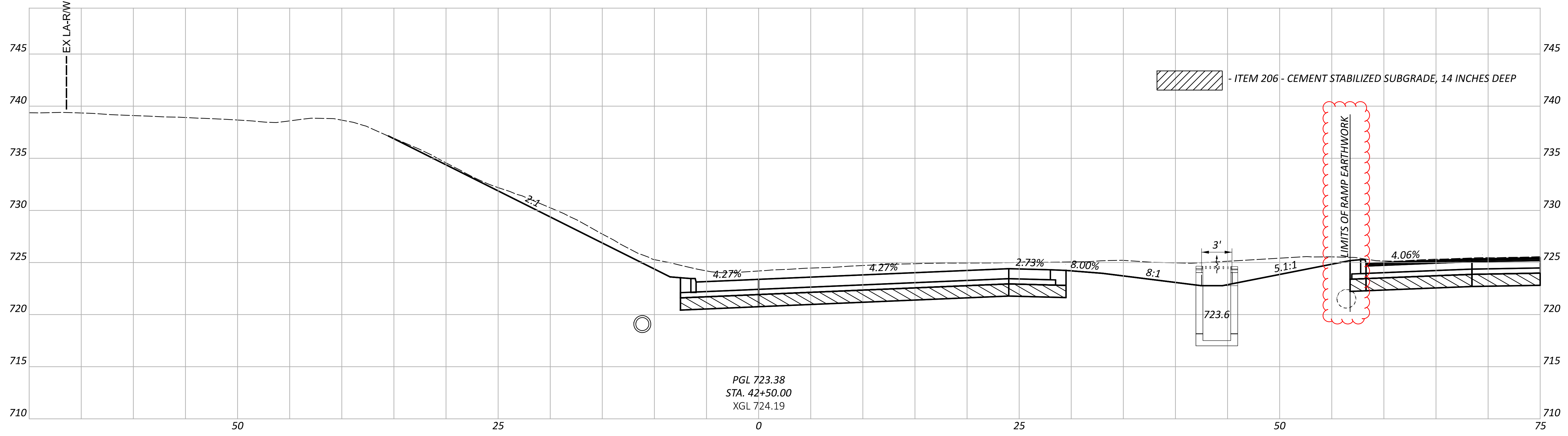
CROSS SECTIONS - RAMP 117-12
 STA 36+00.00 TO STA 36+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.0943	P.1587



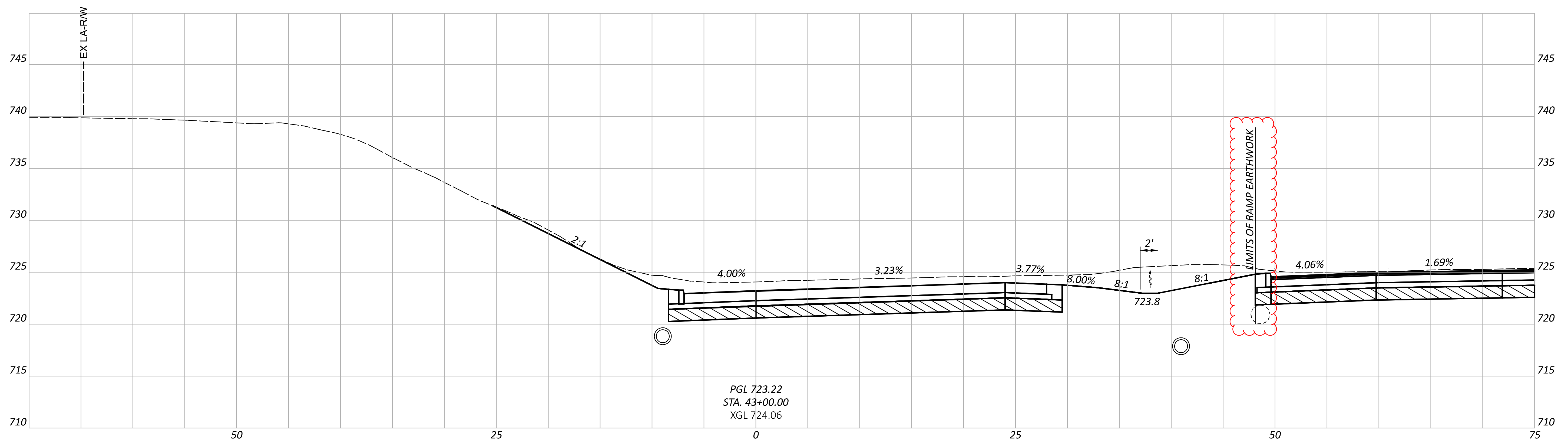
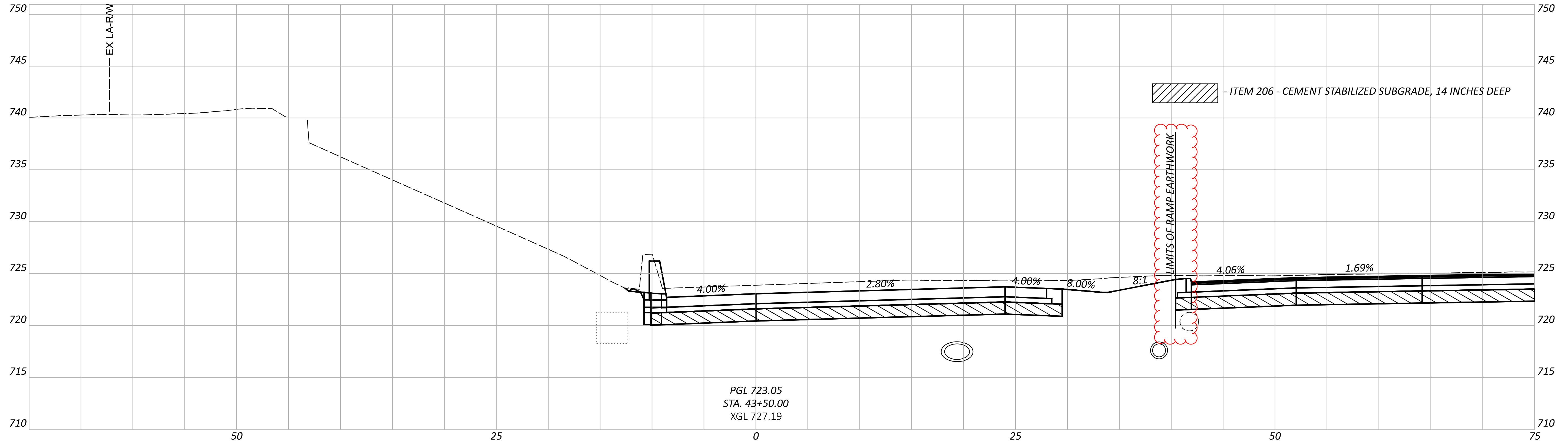
CROSS SECTIONS - RAMP 117-12
STA 37+00.00 TO STA 37+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0944
TOTAL	P.1587



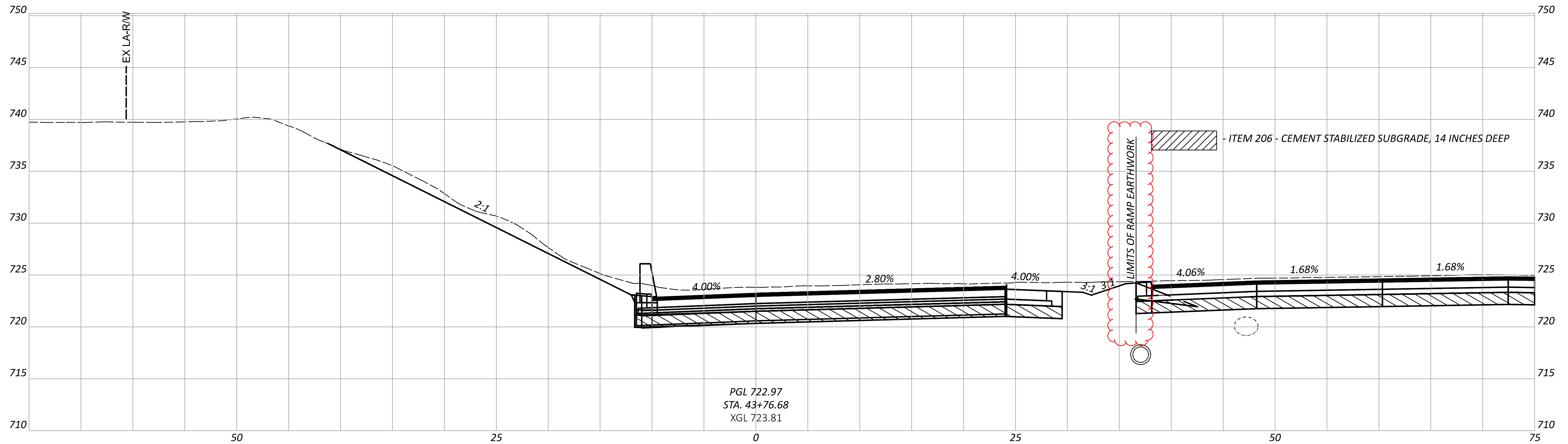
CROSS SECTIONS - RAMP 117-12
STA 42+00.00 TO STA 42+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0949
TOTAL	P.1587



CROSS SECTIONS - RAMP 117-12
 STA 43+00.00 TO STA 43+50.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.0950	P.1587



PGL 722.97
STA. 43+76.68
XGL 723.81

DESIGN AGENCY

STRUCTUREPOINT
INC.

DESIGNER

BER

REVIEWER

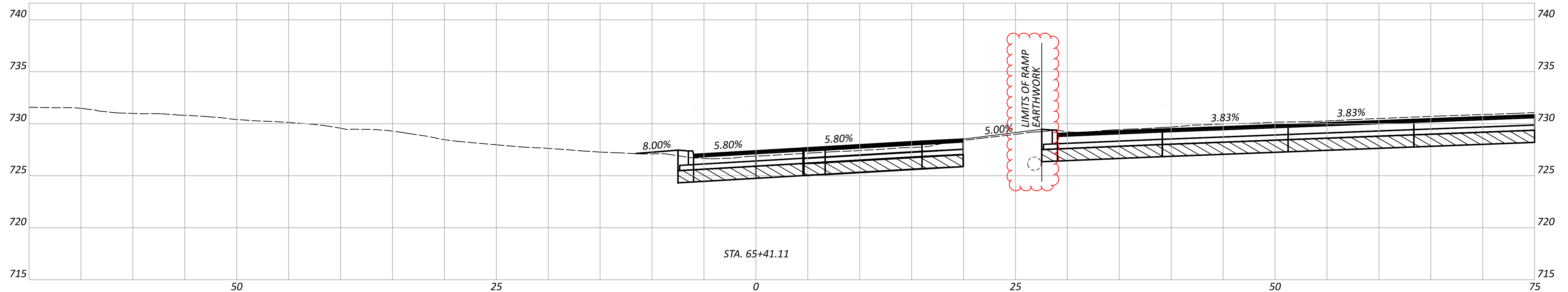
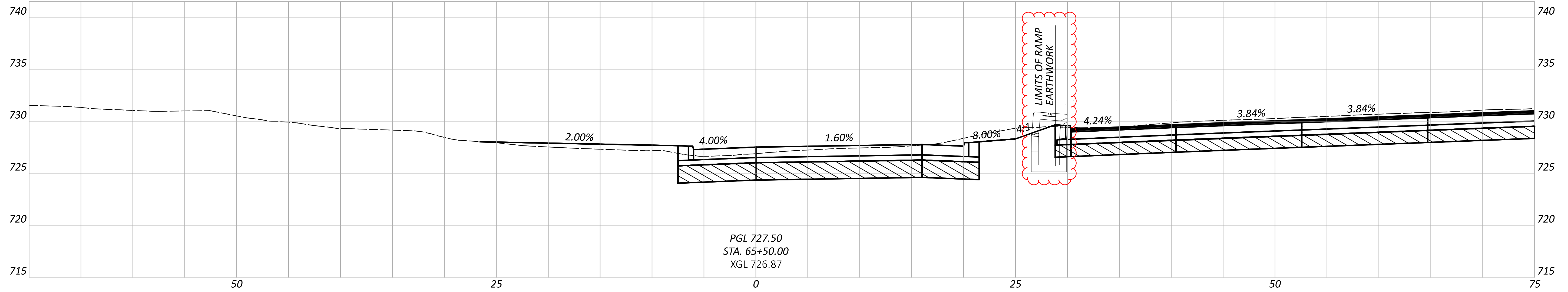
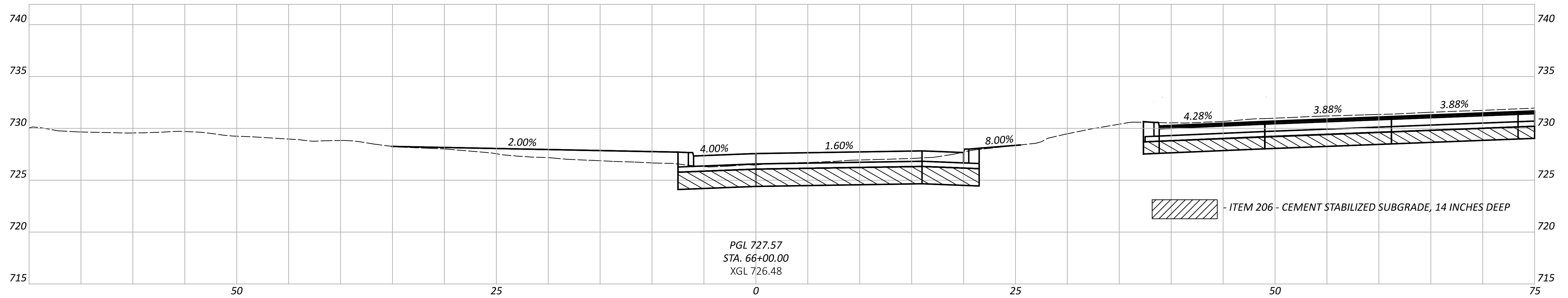
VDK 08/09/23

PROJECT ID

76779

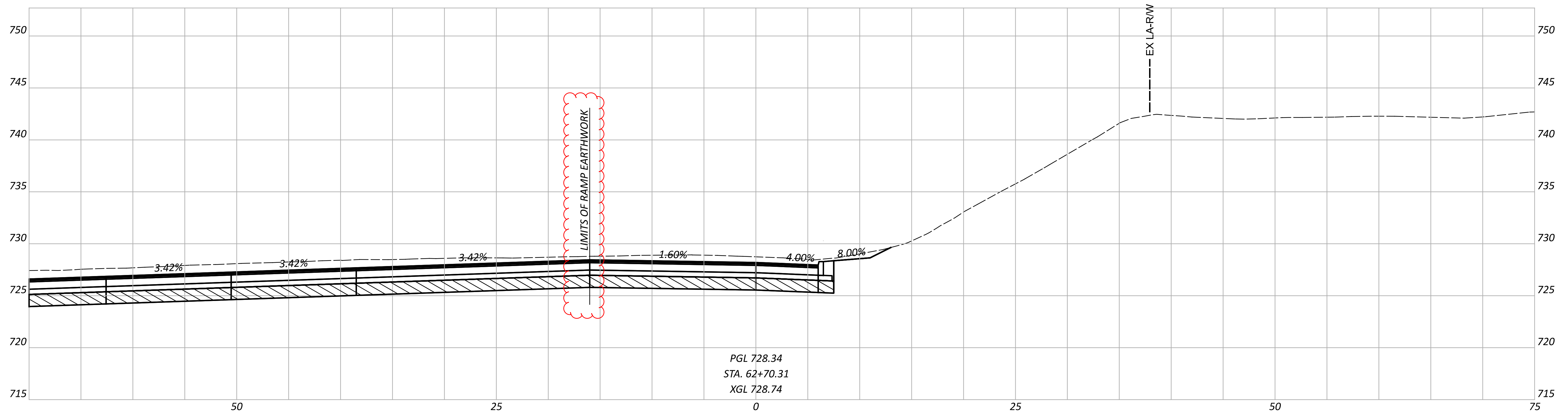
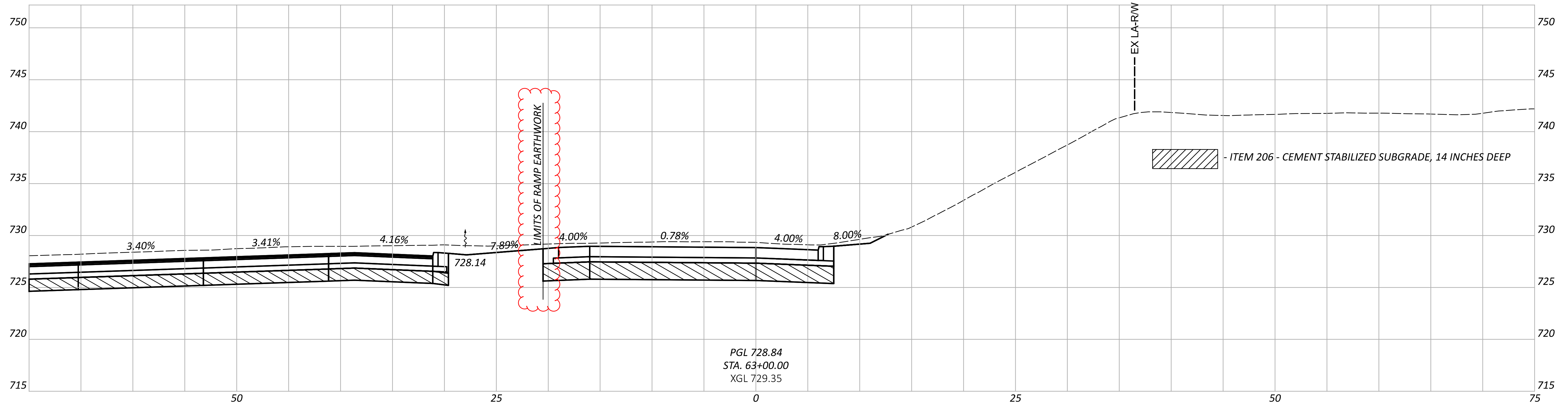
SHEET TOTAL

P.0951 P.1587



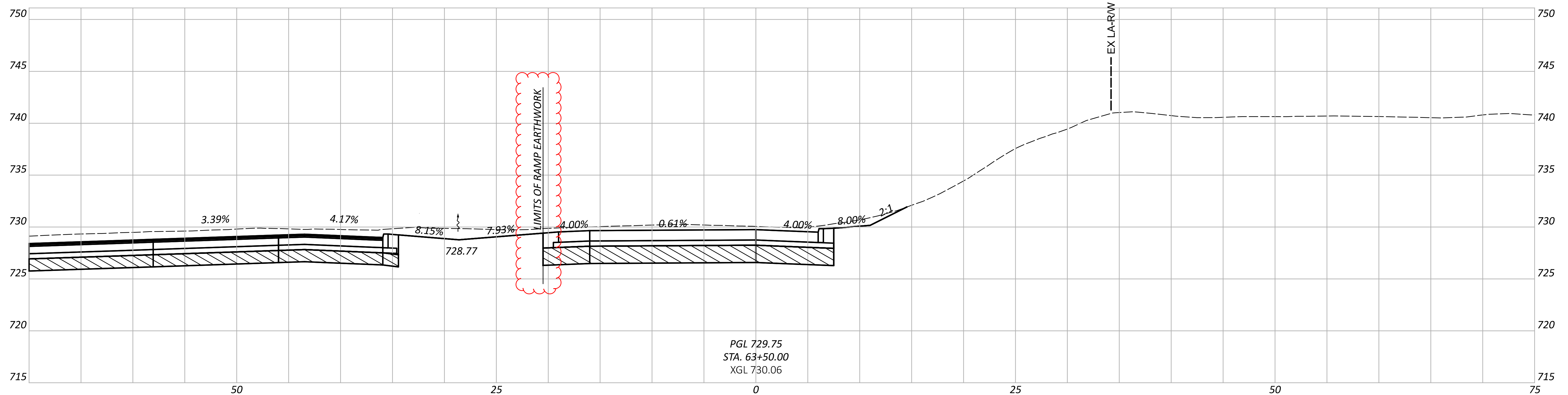
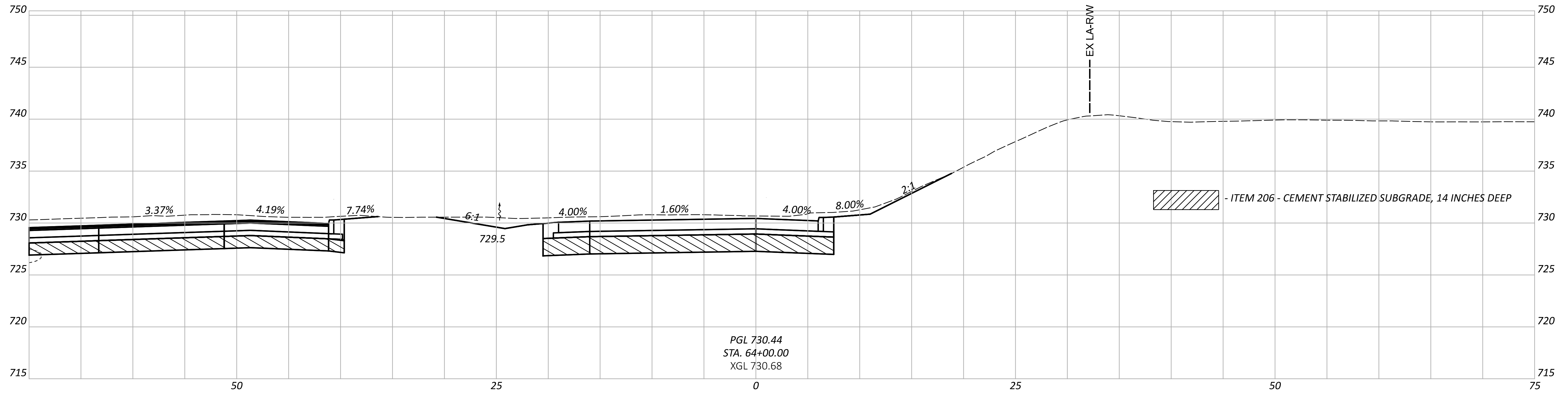
CROSS SECTIONS - RAMP W13
 STA 65+41.11 TO STA 66+00.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0952
TOTAL	P.1587



CROSS SECTIONS - RAMP W14
STA 62+70.31 TO STA 63+00.00

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	P.0959
TOTAL	P.1587



CROSS SECTIONS - RAMP W14
 STA 63+50.00 TO STA 64+00.00

DESIGN AGENCY	STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.0960	P.1587

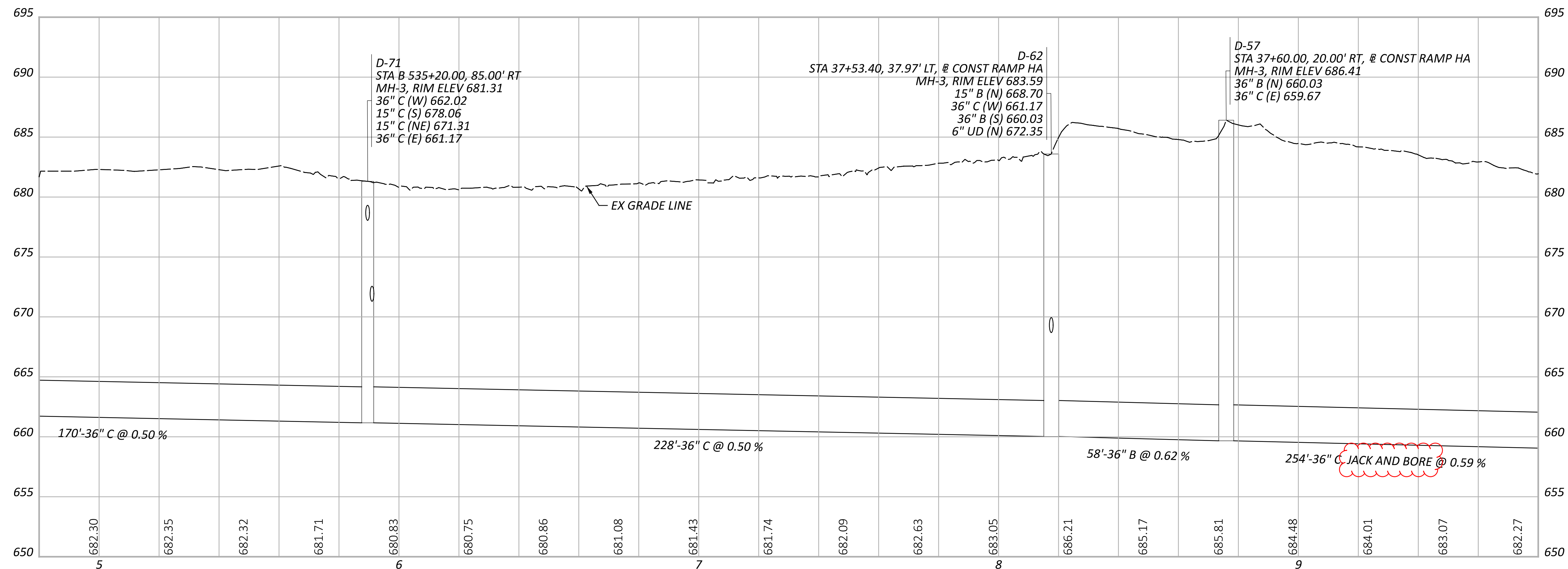
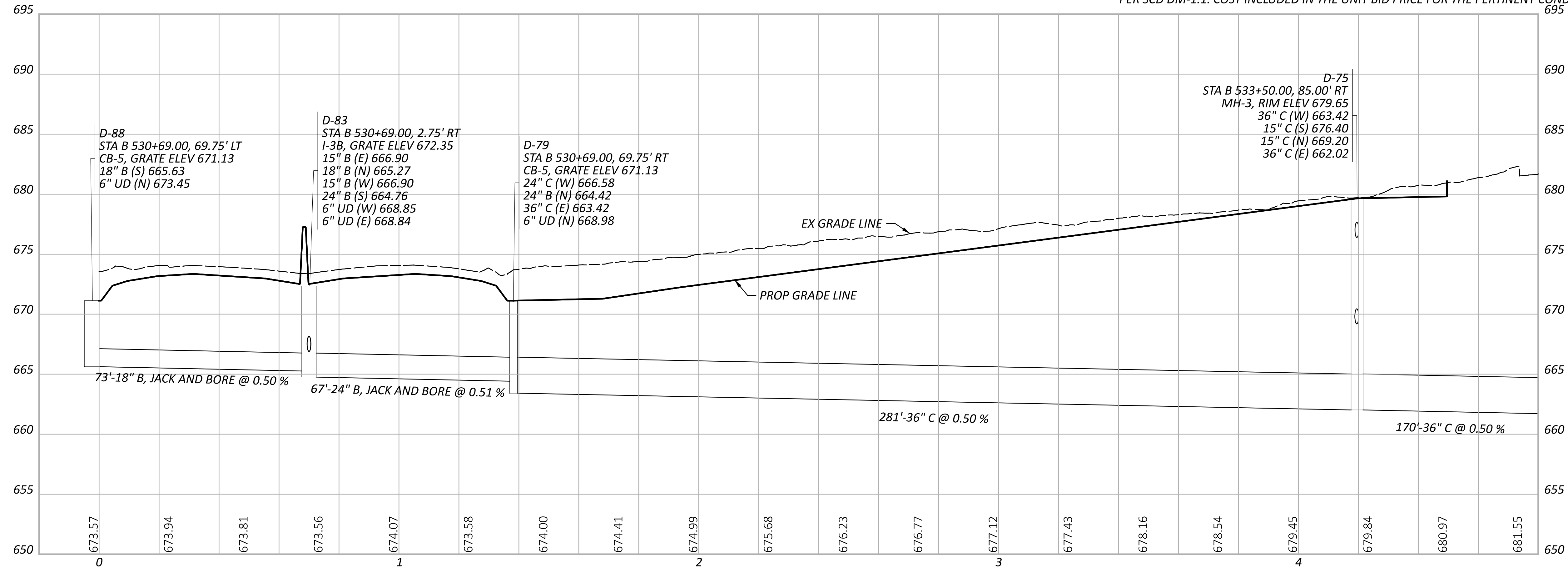
NOTES:

1. ALL STATIONING TAKEN FROM @ CONST IR 90 UNLESS OTHERWISE NOTED

2. FOR DRAINAGE PLAN SHEETS, SEE SHEET P.1047 - P.1067

3. ALL EXISTING CONNECTIONS TO BE CORED IN THE FIELD

4. ALL PROPOSED PIPES TO BE CONNECTED TO EXISTING SHALL BE FITTED WITH A MASONRY COLLAR PER SCD DM-1.1. COST INCLUDED IN THE UNIT BID PRICE FOR THE PERTINENT CONDUIT ITEM



CUY-90-6.69

MODEL: B000 - Profile [Sheet] PAPER SIZE: 34x22 (in.) DATE: 4/29/2024 TIME: 3:08:10 PM USER: kmorton
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STORM SEWER PROFILES
 OUTFALL B

DESIGN AGENCY

STRUCTUREPOINT
 INC.

DESIGNER

AJO

REVIEWER

KEM 08/09/23

PROJECT ID

76779

SHEET

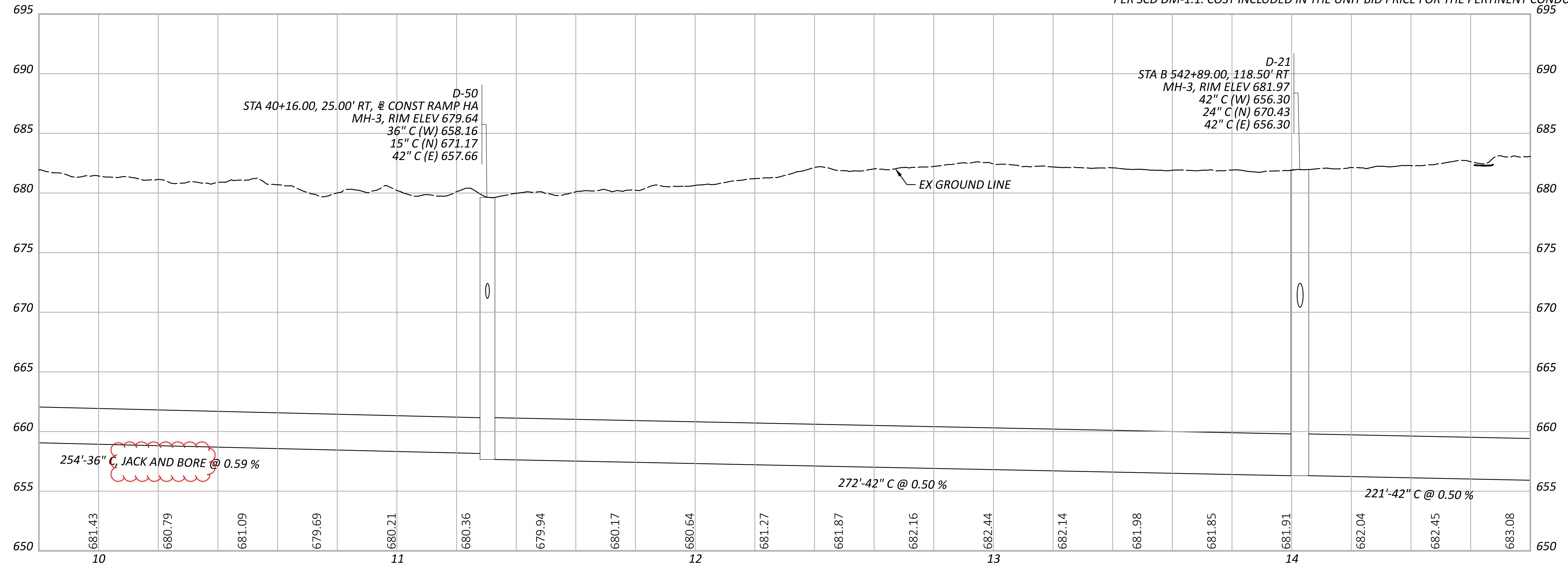
P.1070

TOTAL

P.1587

NOTES:

1. ALL STATIONING TAKEN FROM @ CONST IR 90 UNLESS OTHERWISE NOTED
2. FOR DRAINAGE PLAN SHEETS, SEE SHEET P.1047 - P.1067
3. ALL EXISTING CONNECTIONS TO BE CORED IN THE FIELD
4. ALL PROPOSED PIPES TO BE CONNECTED TO EXISTING SHALL BE FITTED WITH A MASONRY COLLAR PER SCD DM-1.1. COST INCLUDED IN THE UNIT BID PRICE FOR THE PERTINENT CONDUIT ITEM



STORM SEWER PROFILES
OUTFALL B

DESIGN AGENCY



DESIGNER

AJO

REVIEWER

KEM 08/09/23

PROJECT ID

76779

SHEET TOTAL

P.1071 P.1587

NORFOLK SOUTHERN CONTACT

ELDRIDGE CHAMBERS
PUBLIC IMPROVEMENTS ENGINEER
NORFOLK SOUTHERN CORPORATION
650 PEACHTREE STREET, NW, BOX 45
ATLANTA, GA 30308
(470) 463-6307
ELDRIDGE.CHAMBERS@NSCORP.COM

GCRTA COORDINATION

THE APPROPRIATE GCRTA REPRESENTATIVE SHALL BE INVITED TO THE PRE-CONSTRUCTION MEETING.

THE CONTRACTOR SHALL NOTIFY THE GCRTA IN WRITING AT LEAST FOURTEEN (14) CALENDAR DAYS PRIOR TO THE START OF CONSTRUCTION AND AT LEAST SEVEN (7) CALENDAR DAYS BEFORE IMPLEMENTING ANY SUBSTANTIAL CHANGE IN TRAFFIC PATTERN OR CLOSING ANY STREET OR PORTION THEREOF TO TRAFFIC.

THE FOLLOWING IS A LIST OF GCRTA CONTACTS FOR NOTIFICATIONS:

CENTRAL COMMUNICATIONS - (216) 566-5135 MONITORED 24/7

TONY RICHARDSON, SERVICE QUALITY,
ARICHARDSON@GCRTRA.ORG

HOWARD WESLEY, SERVICE QUALITY, HWESLEY@GCRTA.ORG

ROBERT FLEIG, PUBLIC INFORMATION OFFICER,
ROBERT.FLEIG@GCRTA.ORG

MARK RODRIGUEZ, SERVICE QUALITY OFFICE MANAGER,
MARK.RODRIGUEZ@GCRTA.ORG

JOEL FREILICH, SERVICE MANAGEMENT, JFREILICH@GCRTA.ORG

JEFFREY MACKO, SERVICE MANAGEMENT, JMACKO@GCRTA.ORG

GCRTA REQUIREMENTS AND RESTRICTIONS

THE CONTRACTOR'S WORK SHALL NOT INTERRUPT GCRTA OPERATIONS (BUS & RAIL) WITHOUT PRIOR APPROVAL OF THE GCRTA.

ALL WORK ADJACENT TO AND WITHIN THE GCRTA TRISKETT BUS DISTRICT, BUS & EMPLOYEE PARKING AREA SHALL BE COORDINATED WITH GCRTA AUTHORITY PERSONNEL.

ALL WORK OVER, ADJACENT TO AND WITHIN THE GCRTA RAIL RIGHT OF WAY SHALL BE COORDINATED WITH GCRTA AUTHORITY PERSONNEL AND MUST COMPLY WITH THE FOLLOWING GCRTA SPECIFICATIONS: SECTION 014500 - SAFETY; SECTION 015010 MAINTENANCE OF RAIL TRAFFIC AND RESUMPTION OF RAIL SERVICE; SECTION 015020 - STANDARD RAIL FLAGGING PROCEDURES; SECTION 015020 - WORK ZONE APPENDIX, AS DELINEATED IN THE GCRTA "SPECIAL CLAUSES IN THE PROPOSAL" THAT WAS INCLUDED IN THE BID PROPOSAL.

PRIOR TO THE START OF ANY WORK, THE CONTRACTOR MUST ENTER INTO AND EXECUTE A TEMPORARY RIGHT OF ENTRY AGREEMENT WITH THE GCRTA. INCLUDED IN THE TEMPORARY RIGHT OF ENTRY AGREEMENT ARE REQUIREMENTS FOR INSURANCE COVERAGE. IN ADDITION TO THE STANDARD INSURANCE COVERAGES, THE CONTRACTOR SHALL CARRY ADDITIONAL LIABILITY INSURANCE COVERING RAILROAD PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY. ALL WORK OVER AND ON THE GCRTA RIGHT OF WAY SHALL BE COORDINATED WITH GCRTA PERSONNEL. THE CONTRACTOR SHALL CARRY ADDITIONAL LIABILITY INSURANCE COVERING RAILROAD'S PROTECTIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY FOR THE GCRTA AND OTHER RAILROADS.

AFTER THE TEMPORARY RIGHT OF ENTRY HAS BEEN FULLY EXECUTED AND PRIOR TO THE START OF ANY WORK, ODOT AND CONTRACTOR PROJECT PERSONNEL MUST COMPLETE GCRTA CONTRACTOR RULEBOOK C TRAINING, OBTAIN CONTRACTOR IDENTIFICATION BADGES AND BE ASSIGNED A GCRTA RADIO.

THE CONTRACTOR MUST SUBMIT WEEKLY RAIL OUTAGE REQUESTS TO GCRTA FOR APPROVAL TO ENTER AND WORK WITHIN THE GCRTA RIGHT OF WAY. REQUESTS ARE APPROVED ON A WEEKLY BASIS AND ARE WHOLLY DEPENDENT ON THE GCRTA OPERATIONAL REQUIREMENTS. REQUESTS TO GCRTA FOR TOTAL SHUTDOWNS MUST BE SUBMITTED FOUR WEEKS IN ADVANCE AND EVERY WEEK THEREAFTER UNTIL APPROVAL. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DISRUPTIONS TO REGULAR, CONTINUOUS RAPID TRANSIT SERVICE CAUSED AS A RESULT OF CONSTRUCTION ACTIVITIES.

EXTREME CARE SHALL BE EXERCISED AT ALL TIMES TO SAFELY WORK AROUND AND PROTECT THE GCRTA OVERHEAD CATENARY LINES. THE GCRTA OVERHEAD CATENARY AND TRACK SYSTEM IS CONTINUOUSLY ENERGIZED AT 600 VOLTS DIRECT CURRENT.

THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 15.75 FT OF VERTICAL CLEARANCE AND A MINIMUM OF 6.5 FT OF HORIZONTAL CLEARANCE FROM THE CENTERLINE OF TRACK AT ALL TIMES WITH TRAINS ARE OPERATING. A GCRTA FLAGGER WILL BE REQUIRED WHEN WORKING WITHIN 10 FEET OF THE CENTERLINE OF AN ACTIVE TRACK. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE WITHIN GCRTA CLEARANCE LIMITS WHILE A TRACK IS ACTIVE UNLESS A TEMPORARY PROTECTIVE STRUCTURE (OR CONTAINMENT SYSTEM) IS ERECTED TO PROTECT GCRTA TRAFFIC. DETAILS OF THE PROTECTIVE STRUCTURE (OR CONTAINMENT SYSTEM) SHALL BE PREPARED BY A PROFESSIONAL ENGINEER AND SUBMITTED TO THE GCRTA FOR APPROVAL AT LEAST THIRTY (30) DAYS PRIOR TO STARTING ANY WORK. THE PROTECTIVE STRUCTURE (OR CONTAINMENT SYSTEM) MUST BE DESIGNED TO BE FULLY INSULATED, BONDED AND GROUNDED ELECTRICALLY FOR ISOLATION FROM THE GCRTA OVERHEAD CATENARY SYSTEMS. ELECTRICAL ISOLATION/GROUNDING OF THE TEMPORARY WORK PLATFORM/CONTAINMENT STRUCTURE IS THE RESPONSIBILITY OF THE CONTRACTOR, NOT THE GCRTA. THE CONTRACTOR'S DESIGN INCLUDING ALL REQUIRED STRUCTURAL AND ELECTRICAL GROUNDING CALCULATIONS AND DETAILS MUST BE PROVIDED IN ADVANCE OF THE WORK FOR REVIEW AND APPROVAL BY THE GCRTA. ITEM SPECIAL - STRUCTURES, TEMPORARY FALSEWORK AND PROTECTIVE STRUCTURE. WHEN CONDITIONS WARRANT, THE CONTRACTOR SHALL PLACE A FILTER FABRIC WRAP OVER THE GCRTA BALLAST WITHIN THE CONSTRUCTION LIMITS. THE GCRTA TRACKS SHALL ALSO BE PROTECTED FROM FALLING DEBRIS WITH PLYWOOD AND/OR OTHER SUITABLE MATERIAL. SUBMIT DETAILED DRAWINGS FOR THE PROTECTIVE PLAN TO THE GCRTA FOR APPROVAL.

TWO (2) WEEKEND OUTAGES HAVE BEEN ESTIMATED FOR USE BY THE PROJECT FOR THE CONTRACTOR TO PERFORM PROJECT WORK WITHIN THE GCRTA RIGHT OF WAY. THE WEEKEND OUTAGES TYPICALLY RUN FROM APPROXIMATELY 3:00 AM SATURDAY TO 1:00 AM MONDAY.

THE PROTECTIVE STRUCTURE (OR CONTAINMENT SYSTEM) MUST ALSO BE USED TO PROTECT THE GCRTA TRISKETT BUS GARAGE AND THE BUS & EMPLOYEE PARKING LOT.

ACCESS TO THE GCRTA EMPLOYEE AND BUS PARKING LOT WILL BE PROVIDED TO THE CONTRACTOR. PARKING SPACES IN/AROUND THE PIERS WILL BE MADE AVAILABLE TO THE CONTRACTOR ON AN AS NEEDED BASIS. GCRTA RESERVES THE RIGHT TO LIMIT THE NUMBER OF PARKING SPACES CLOSED AT ANY ONE TIME. PARKING OF ANY CONTRACTOR VEHICLES (COMPANY OR PERSONAL) WILL NOT BE PERMITTED AT ANY TIME IN THE GCRTA PARKING LOTS WITHOUT PRIOR APPROVAL OF THE GCRTA. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A SPECIFIC WORK PLAN AND SCHEDULE IN ADVANCE OF THE WORK IN THE PARKING LOT FOR REVIEW AND APPROVAL BY THE GCRTA. THIS WILL AID IN THE COORDINATION OF THE WORK ACTIVITIES TO MINIMIZE THE IMPACTS TO THE GCRTA OPERATIONS. GCRTA WILL REQUIRE A MINIMUM OF SEVEN (7) DAYS NOTICE TO BLOCK-OFF PARKING SPACES AND/OR RELOCATE PARKING/MATERIALS PRIOR TO THE STAGING OF CONTRACTOR EQUIPMENT AND/OR CONTRACTOR WORK IN THE PARKING LOT AREA.

ACCESS TO THE GCRTA TRISKETT BUS GARAGE AND TRISKETT RAPID STATION MUST BE MAINTAINED AT ALL TIMES. ADDITIONALLY AT THE GCRTA TRISKETT GARAGE, ACCESS MUST BE MAINTAINED AT ALL TIMES TO THE INVENTORY/DELIVERY DOCK, THE BUS & EMPLOYEE PARKING LOT AND THE EMPLOYEE ENTRANCES.

ITEM 900 - RAILROAD FLAGGING SERVICES
THIS ITEM IS NOT SUBJECT TO ANY ADJUSTMENTS ACCORDING TO TABLE 104.02-2 OF THE C&MS.

ITEM SPECIAL - STRUCTURES, TEMPORARY FALSEWORK AND PROTECTIVE STRUCTURE

THIS ITEM INCLUDES ALL MATERIALS, EQUIPMENT AND LABOR TO DESIGN AND INSTALL A PROTECTIVE STRUCTURE TO PROTECT GCRTA TRAFFIC AS REQUIRED WHEN WORK IS TO BE PERFORMED WITHIN THE GCRTA OPERATING ENVELOPE IN SPAN 6 OF THE CUY-00090-09.700 L/R STRUCTURE OVER JOSLYN ROAD, THE NORFOLK SOUTHERN RAILWAY AND THE GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY RED LINE RAPID TRANSIT. THE PROTECTIVE STRUCTURE SHALL MEET THE REQUIREMENTS SET FORTH IN GCRTA STANDARD 015010 - MAINTENANCE OF RAIL TRAFFIC AND RESUMPTION OF REVENUE SERVICE. ONCE THE CONTRACTOR HAS COMPLETED WORK, THE PROTECTIVE STRUCTURE SHALL BE FULLY REMOVED FROM GCRTA RIGHT OF WAY.

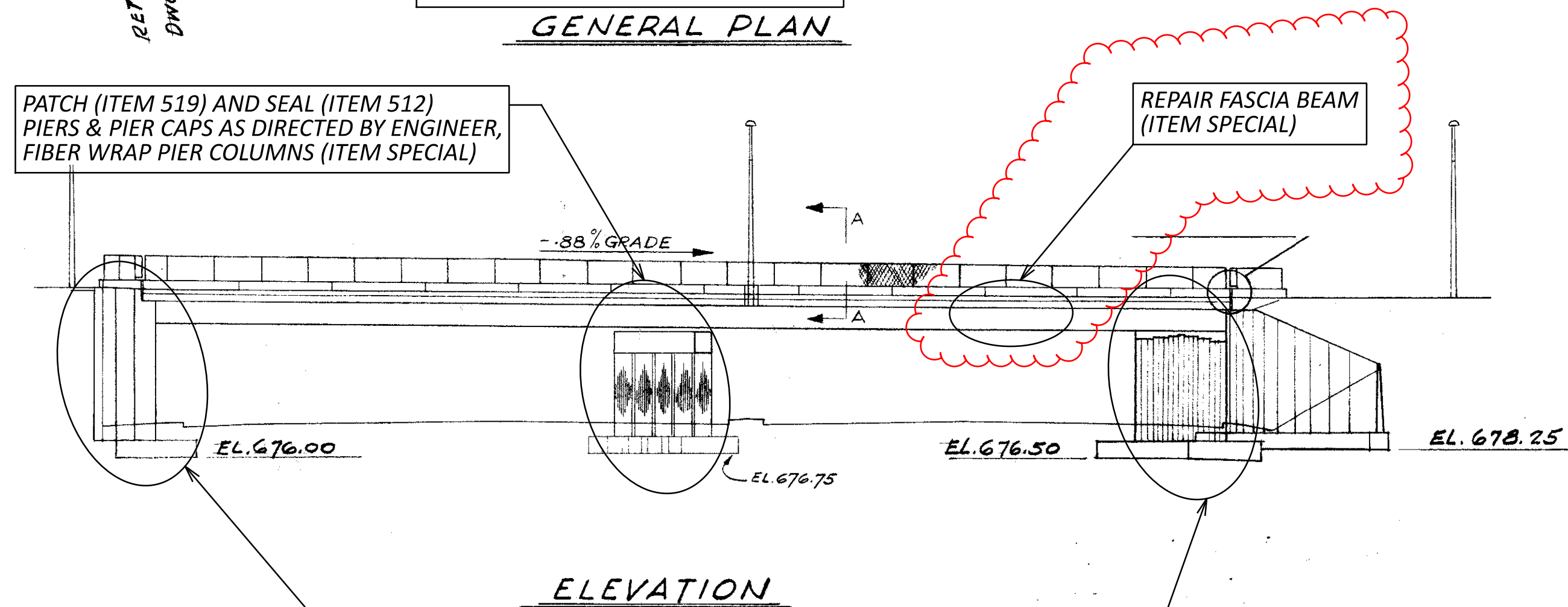
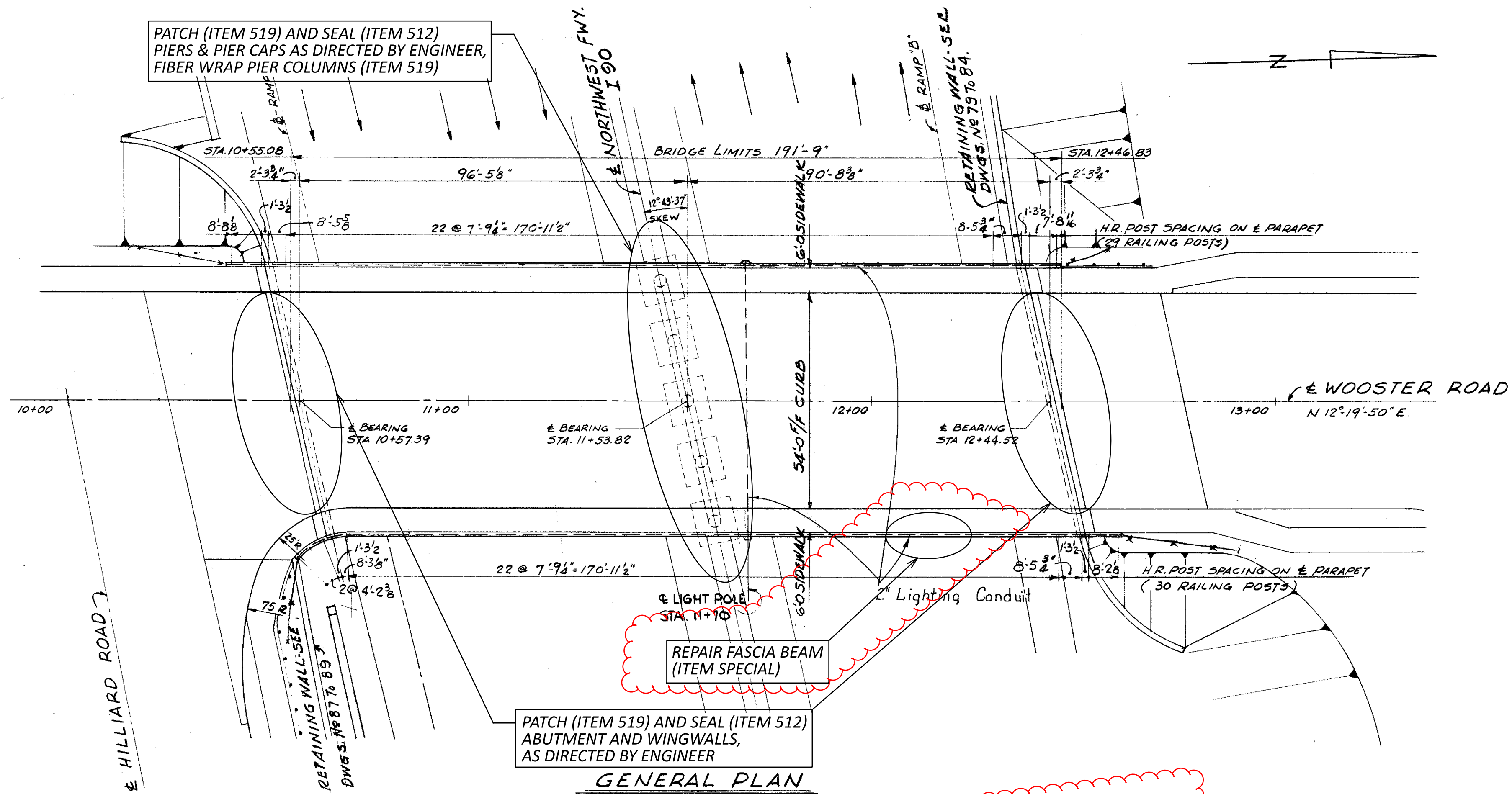
PAYMENT SHALL INCLUDE FULL COMPENSATION FOR DESIGN, MATERIAL, TOOLS, EQUIPMENT, LABOR AND ACCESS TO INSTALL AND REMOVE A PROTECTIVE STRUCTURE MEETING GCRTA STANDARDS. THIS WORK SHALL BE PAID FOR USING THE FOLLOWING CONTRACT LUMP SUM PAY ITEM:

ITEM SPECIAL (530E00200) - STRUCTURES, TEMPORARY FALSEWORK AND PROTECTIVE STRUCTURE.

NORFOLK SOUTHERN RAILWAY CONSTRUCTION CLEARANCE

MAINTAIN A CONSTRUCTION CLEARANCE OF 13 FEET HORIZONTALLY FROM THE CENTER OF TANGENT TRACKS, 14 FEET HORIZONTALLY FROM CENTER OF CURVED TRACKS, AND 22 FEET VERTICALLY FROM TOP OF HIGHEST RAIL AT ALL TIMES.

DESIGN AGENCY
Michael Baker INTERNATIONAL
DESIGNER
MKB
REVIEWER
CDC 10/30/23
PROJECT ID
76779
SHEET
P.1351
TOTAL
P.1587



PROPOSED WORK NOTE:

- CLEANOUT DRAINAGE SYSTEM AND REPLACE CLEANOUT CAP AT NORTH ABUTMENT.
- PATCH ABUTMENTS AS DIRECTED BY THE ENGINEER.
- PATCH PIER COLUMNS AND CAPS AS DIRECTED BY THE ENGINEER PRIOR TO APPLYING FIBER WRAPPING.
- FIBER WRAP PIER COLUMNS AS INDICATED IN THESE PLANS.
- SEAL AREAS OF ABUTMENTS AND PIER CAP CONCRETE SURFACES THAT HAVE BEEN PATCHED. APPLY URETHANE TOP COAT TO AREAS OF PIERS THAT HAVE BEEN FIBER WRAPPED.
- REPAIR FASCIA BEAM AS PER PLAN NOTES AND DETAILS.

EXISTING STRUCTURE

TYPE: 2 SPANS CONT. BUILT UP GIRDER WITH REINF. CONCRETE DECK & SUBSTRUCTURE
 SPANS: 96.43', 90.70'
 ROADWAY: 54'-0" F/F - 6'-0" SIDEWALKS
 LOAD FREQUENCY: CF-400 (57)
 SKEW: 12°-43'-37"
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 APPROACH SLAB: 30'-0"
 ALIGNMENT: TANGENT

NOTES:

- DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHOULD ONLY BE USED FOR INFORMATIONAL PURPOSES ONLY.
- PERFORM ONLY THE WORK INDICATED IN THE FRAMED TEXT AND/OR DESCRIBED IN GENERAL NOTES.
- CLEANOUT DRAINAGE & REPLACE CLEANOUT CAP (ITEM 518).

ESTIMATED QUANTITIES FOR SFN 1808516

PARTICIPATION	ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REAR ABUTMENT	PIERS	FORWARD ABUTMENT	SUPER.	GENERAL	SHEET REF.
02/IMS/13	512	10100	106	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	24	43	39			
02/IMS/13	512	10600	89	FT	CONCRETE REPAIR BY EPOXY INJECTION	59		30			
02/IMS/13	SPECIAL	512E71500	40	SY	SPECIAL - URETHANE TOP COAT SEALER		40				1349
02/IMS/13	514	20001	50	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN				50		1353
02/IMS/13	518	63300	LS		STRUCTURE DRAINAGE MISC.: CLEAN OUT EXISTING DRAINAGE SYSTEM					LS	1349
02/IMS/13	SPECIAL	519E00100	358	SF	SPECIAL - COMPOSITE FIBER WRAP SYSTEM		358				1350
02/IMS/13	519	11101	944	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	209	384	351			1350
02/IMS/13	SPECIAL	530E00400	4	EACH	SPECIAL - STRUCTURES: DRILLING ENDS OF CRACKS IN STRUCTURAL STEEL				4		1353
02/IMS/13	SPECIAL	530E00500	10	HOUR	SPECIAL - STRUCTURES: REPAIRING DAMAGED MEMBERS BY GRINDING				10		1353

CALCULATED BY: BIM DATE: 8/4/2023
 CHECKED BY: RTF/JAH DATE: 8/5/2023

ITEM SPECIAL - STRUCTURES: DRILLING ENDS OF CRACKS IN STRUCTURAL STEEL

THIS WORK INCLUDES DRILLING HOLES CENTERED NEAR THE TERMINATION POINTS OF THE CRACKS LOCATED IN THE PLANS AND DETAILED IN THE INSPECTION NOTES.

PREPARATION: REMOVE EXISTING PAINT ON BOTH FACES OF THE WEB. LOCATE THE TIP OF THE CRACK BY PERFORMING A DYE PENETRANT OR A MAGNETIC PARTICLE TEST, OR BOTH. LAY OUT PROPOSED DRILL HOLE LOCATIONS TO INTERCEPT MULTIPLE CRACKS WHERE PRACTICABLE. DO NOT PERFORM DRILLING UNTIL CRACK TIP LOCATIONS AND DRILL HOLE LOCATIONS ARE APPROVED BY THE ENGINEER. THE BENT PORTION OF THE VERTICAL STIFFENERS MAY NEED TO BE REMOVED TO ACCESS THIS WORK DEPENDING ON THE LOCATIONS OF THE CRACK TIPS AND THE PROPOSED DRILL HOLES. PERFORM SUCH REMOVAL AS AUTHORIZED AND APPROVED BY THE ENGINEER.

EXECUTION: THE DRILLED HOLES SHALL HAVE A MINIMUM DIAMETER OF 1.5" AND A MAXIMUM DIAMETER OF 3.0". USE A CARBIDE-TIPPED ANNULAR CUTTER OR SIMILAR ROTARY CUTTING TOOL. FLAME CUTTING OF HOLES IS PROHIBITED. SMOOTH ALL EDGES AND REMOVE ALL BURRS. COLLECT AND DISPOSE OF ALL DUST AND DEBRIS ASSOCIATED WITH THIS WORK IN ACCORDANCE WITH CMS 202 AND 513.

ALL EQUIPMENT, LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO DRILL THE ENDS OF CRACKS SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - STRUCTURES: DRILLING ENDS OF CRACKS IN STRUCTURAL STEEL.

ITEM SPECIAL - STRUCTURES: REPAIRING DAMAGED MEMBERS BY GRINDING

THIS WORK INCLUDES GRINDING EXISTING GIRDER FLANGES TO REMOVE GOUGES FROM COLLISION DAMAGE.

EXECUTION: PERFORM GRINDING AS APPROVED AND DIRECTED BY THE ENGINEER. CAREFULLY GRIND PARALLEL TO THE FLANGES TO REMOVE ALL SHARP EDGES AND TAPER TO THE ORIGINAL SURFACE USING A 1:10 SLOPE. PROVIDE A SURFACE FINISH ACCORDING TO ANSI B46.1 OF 250 MIL. COLLECT AND DISPOSE OF ALL DUST AND DEBRIS ASSOCIATED WITH THIS WORK IN ACCORDANCE WITH CMS 202 AND 513.

ALL EQUIPMENT, LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM THE GRINDING SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - STRUCTURES: REPAIRING DAMAGED MEMBERS BY GRINDING.

ITEM 514 FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN

THIS WORK INCLUDES SURFACE PREPARATION AND FIELD PAINTING STRUCTURAL STEEL PREVIOUSLY COATED WITH A THREE-COAT PAINT SYSTEM TO REPAIR PROTECTIVE COATING SYSTEM DAMAGE CAUSED BY COLLISION, CORROSION, DRILLING HOLES, AND GRINDING.

PREPARATION: REMOVE EXISTING PAINT WHERE THE EXISTING COATING IS CRACKED OR DAMAGED. PERFORM SURFACE PREPARATION OF THESE AREAS ACCORDING TO SSPC-SP2 (HAND TOOL CLEANING).

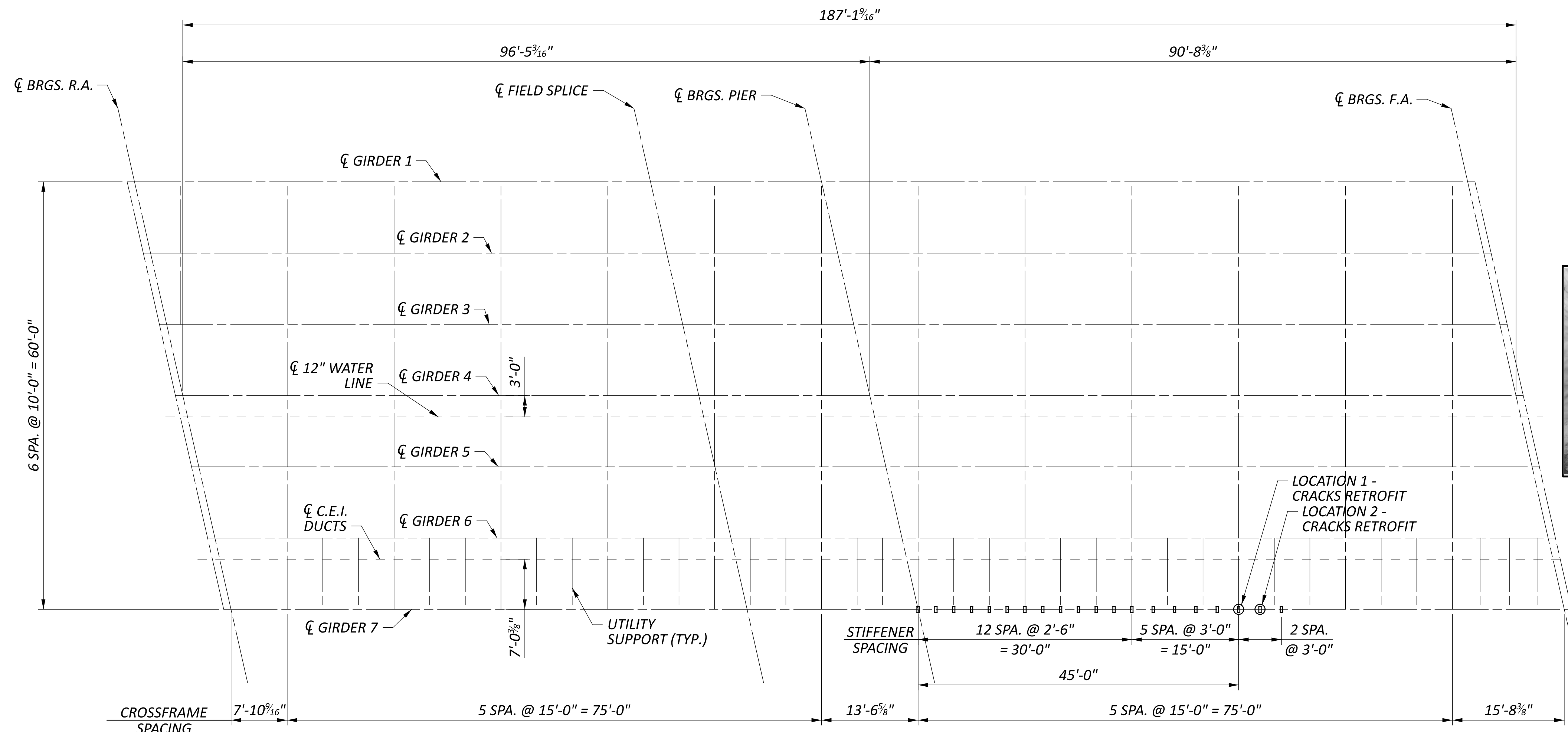
EXECUTION: AFTER COMPLETION OF ALL DRILLING AND GRINDING WORK, APPLY ONE COAT OF ZINC-RICH PAINT TO ALL EXPOSED STRUCTURAL STEEL AND ALL AREAS OF DAMAGED EXISTING FINISH COAT. OVERLAP THE PAINTED AREA A MINIMUM OF SIX (6) INCHES BEYOND THE EDGES OF BARE AND/OR DAMAGED AREAS. PERFORM THE REPAIR WORK ACCORDING TO ASTM A 780 EXCEPT THE DEPARTMENT WILL NOT ALLOW AEROSOL SPRAY APPLICATIONS OF PAINTS CONTAINING ZINC DUST. COLLECT AND DISPOSE OF ALL DUST AND DEBRIS ASSOCIATED WITH THIS WORK IN ACCORDANCE WITH CMS 202 AND 514.

ALL EQUIPMENT, LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO PERFORM THE PAINTING SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 514 FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN.

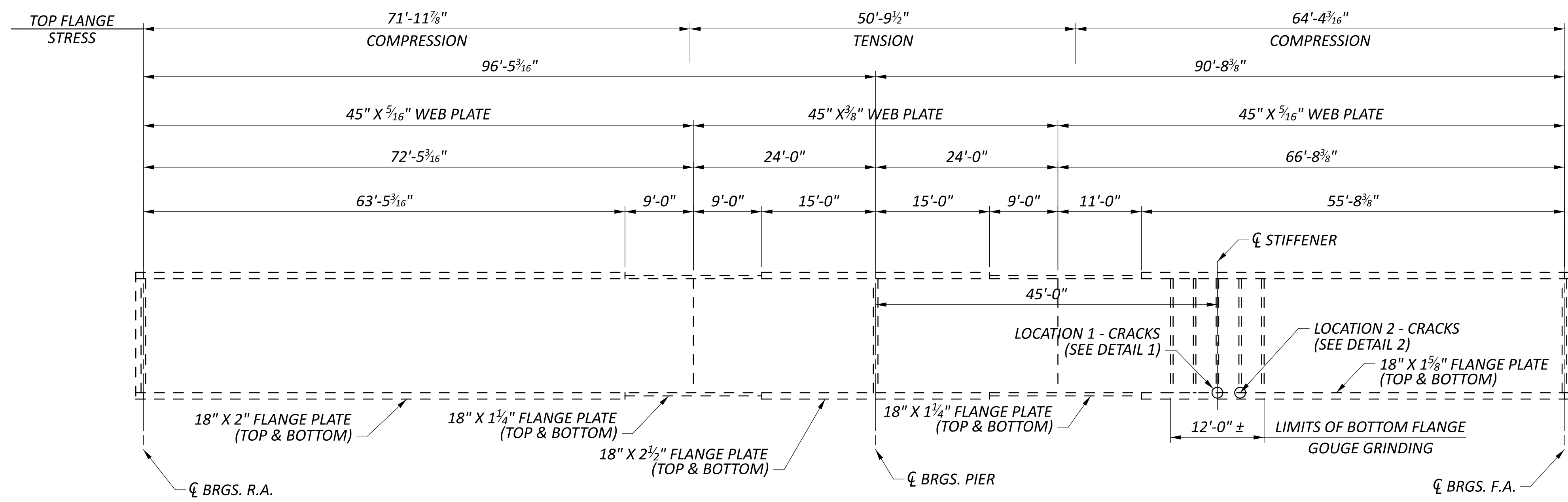
ESTIMATED QUANTITIES
 BRIDGE NO.: CUY-00020-08.470
 IR 90 UNDER WOOSTER RD

SFN	1808516
DESIGNER	BIM
CHECKER	JAH
REVIEWER	MUR 04/14/23
PROJECT ID	76779
SUBSET	2
TOTAL	4
SHEET	P.1353
TOTAL	P.1587

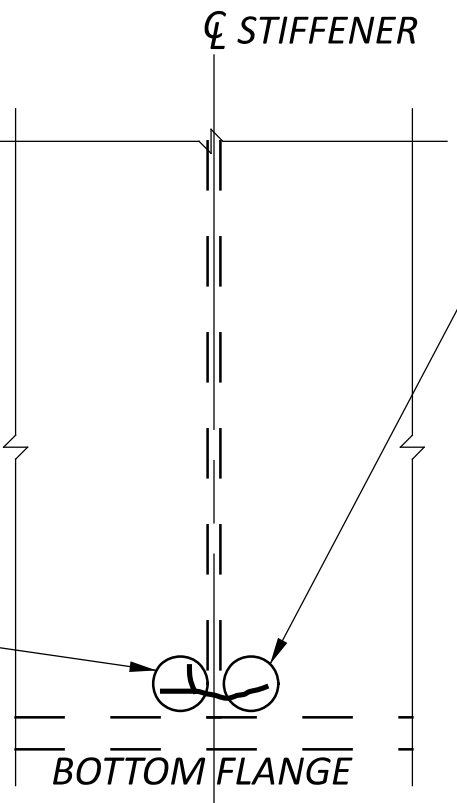
2LMN



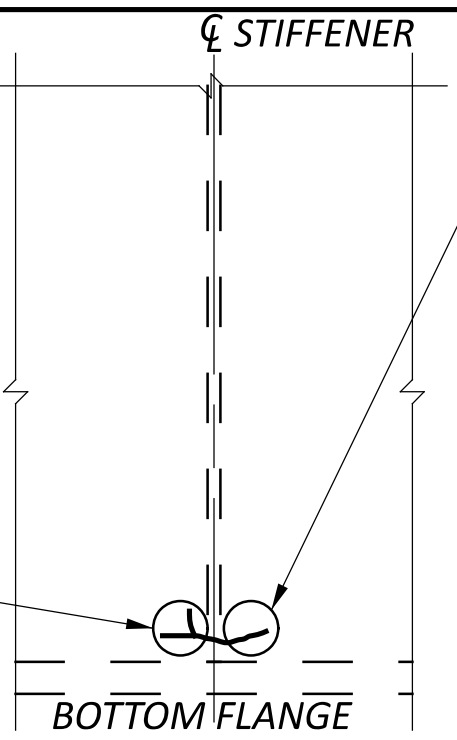
FRAMING PLAN
(NOT ALL STIFFENERS SHOWN FOR CLARITY)



GIRDER ELEVATION
(NOT ALL STIFFENERS SHOWN FOR CLARITY)



DETAIL 1
(LOOKING WEST)



DETAIL 2
(LOOKING WEST)



LEGEND
○ - DRILL OUT CRACKS

- NOTES**
1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY.
 2. COLORED SKETCHES AND DIMENSIONS ADDED TO REHAB PLANS ARE NOT TO SCALE.
 3. ALL DIMENSIONS ARE ±.

SFN	1808516
DESIGN AGENCY	2LMN
DESIGNER	RTF
CHECKER	JAH
REVIEWER	JAH
PROJECT ID	76779
SUBSET	4A
TOTAL	4
SHEET	P.1355A
TOTAL	P.1587

CUY-90-06.690

MODEL: Sheet PAPER: 34x22 (in.) DATE: 5/1/2024 TIME: 9:00:47 AM USER: Zachary, Sterk
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PARTICIPATION		ESTIMATED QUANTITIES										
02/IMS/13	03/IMS/13	ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REAR ABUTMENT	PIERS	FORWARD ABUTMENT	SUPER.	GENERAL	SHEET REF.
	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS	3, 1348 / 1587
	427	202	22900	427	SY	APPROACH SLAB REMOVED					427	
	LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING					LS	
	174	503	21100	174	CY	UNCLASSIFIED EXCAVATION	174					
	79710	509	10000	79710	LB	EPOXY COATED STEEL REINFORCEMENT	31110		31110		17490	
	192	510	10000	192	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT					192	
	56	511	34412	56	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE				56		
	76	511	34450	76	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	11		11	30	24	
	218	511	53012	218	CY	CLASS QC2 CONCRETE, MISC.: ABUTMENT SLABS	109		109			
	13311	512	10050	13311	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				12239	1072	
	3659	512	10100	3659	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	53		53	3510	149	
	927	512	10300	927	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	7		7	895	18	
	10348	513	10200	10348	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF				10348		
	6500	513	21501	6500	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN				6500		10, 11
	LS	513	95020	LS		STRUCTURAL STEEL, MISC.: GIRDER SPLICE REPAIR				LS		
	586	514	00050	586	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL				586		
	586	514	00056	586	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT				586		
	2239	514	00060	2239	SF	FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT				2239		
	2239	514	00066	2239	SF	FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT				2239		
	LS	514	27800	LS		FIELD PAINTING, MISC.: COATING SYSTEM REPAIR				LS		
	288	516	11210	288	FT	STRUCTURAL STEEL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL				288		
	87	516	13600	87	SF	1" PREFORMED EXPANSION JOINT FILLER					87	
	388	516	13900	388	SF	2" PREFORMED EXPANSION JOINT FILLER				388		
	2	516	46201	2	EA	BEARING DEVICE, ROCKER, AS PER PLAN	2					11
	LS	516	47000	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE				LS		
	8	518	12500	8	EACH	SCUPPER, MISC: PLUG AND FILL EXISTING SCUPPER					8	1349 / 1587
	39	518	21200	39	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	39					
	144	518	40000	144	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	144					
	92	518	40010	92	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	92					
	623	526	15010	623	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=13")					623	
	280	526	90010	280	FT	TYPE A INSTALLATION					280	
	52	601	20010	52	CY	CRUSHED AGGREGATE SLOPE PROTECTION	52					
	96	SPECIAL	60740300	96	FT	VANDAL PROTECTION FENCE REMOVED AND REBUILT				96		
	92	611	96600	92	FT	CONDUIT, BORED OR JACKED, 6", 707.45	92					
	4	611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	4					
	60	613	41200	60	CY	LOW STRENGTH MORTAR BACKFILL	60					
	104	838	20700	104	CY	GABIONS	104					
	12239	848	10201	12239	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION 1 1/2" INCH THICK, AS PER PLAN				12239		1350 / 1587
	12239	848	20000	12239	SY	SURFACE PREPARATION USING HYDRODEMOLITION				12239		
	123	848	30200	123	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY				123		
	241	848	50000	241	SY	HAND CHIPPING				241		
	LS	848	50100	LS		TEST SLAB					LS	
	12239	848	50320	12239	SY	EXISTING CONCRETE OVERLAY REMOVED, 1 1/4" NOMINAL THICKNESS				12239		
	100	848	50340	100	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY				100		

CALCULATED BY: SSW DATE: 04/05/23
 CHECKED BY: CDC DATE: 04/05/23

ESTIMATED QUANTITIES
 BRIDGE NO.: CUY-00090-07.580
 IR 90 OVER ROCKY RIVER VALLEY

SFN	1808567
DESIGN AGENCY	
Michael Baker	INTERNATIONAL
DESIGNER	CDC
CHECKER	MKB
REVIEWER	CDC 04/07/23
PROJECT ID	76779
SUBSET	2
TOTAL	24
SHEET	P.1361
TOTAL	P.1587

CALCULATED BY: DAF DATE: 04/05/23
 CHECKED BY: CDC DATE: 04/05/23

ESTIMATED QUANTITIES												
PARTICIPATION		ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REAR ABUTMENT	PIERS	FORWARD ABUTMENT	SUPER.	GENERAL	SHEET REF.
02/IMS/13	03/IMS/13											
LS		202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS	4, 5, 13, 15, 17, 19, 1348 / 1587
534		202	22900	534	SY	APPROACH SLAB REMOVED					534	
149010		509	10000	149010	LB	EPOXY COATED STEEL REINFORCEMENT				149010		
11934		509	30020	11934	FT	NO. 4 DEFORMED GFRP REINFORCEMENT				11934		
509		510	10000	509	EA	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT					509	
311		511	34412	311	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE				311		
125		511	34450	125	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)				125		
3160		512	10050	3160	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				2361	799	
827		512	10100	827	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)				827		
329		512	10300	329	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN				262	67	
49		519	11101	49	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN			49			3
797		526	25010	797	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")					797	
294		526	90030	294	FT	TYPE C INSTALLATION					294	
620		607	39900	620	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC				620		
1134		848	10201	1134	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 3 3/4" INCH THICK, AS PER PLAN				1134		1350 / 1587
1227		848	10201	1227	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 2 3/4" INCH THICK, AS PER PLAN				1227		1350 / 1587
2361		848	20000	2361	SY	SURFACE PREPARATION USING HYDRODEMOLITION				2361		
20		848	30200	20	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY				20		
35		848	50000	35	SY	HAND CHIPPING				35		
LS		848	50100	LS		TEST SLAB					LS	
1134		848	50320	1134	SY	EXISTING CONCRETE OVERLAY REMOVED, 3 1/2" NOMINAL THICKNESS				1134		
1134		848	50320	1134	SY	EXISTING CONCRETE OVERLAY REMOVED, 2 1/2" NOMINAL THICKNESS				1134		
100		848	50340	100	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY				100		

ESTIMATED QUANTITIES
 BRIDGE NO.: CUY-00090-09.470 L/R
 IR 90 OVER W 140TH ST

SFN 1808176

SFN 1808184

DESIGN AGENCY

Michael Baker
 INTERNATIONAL

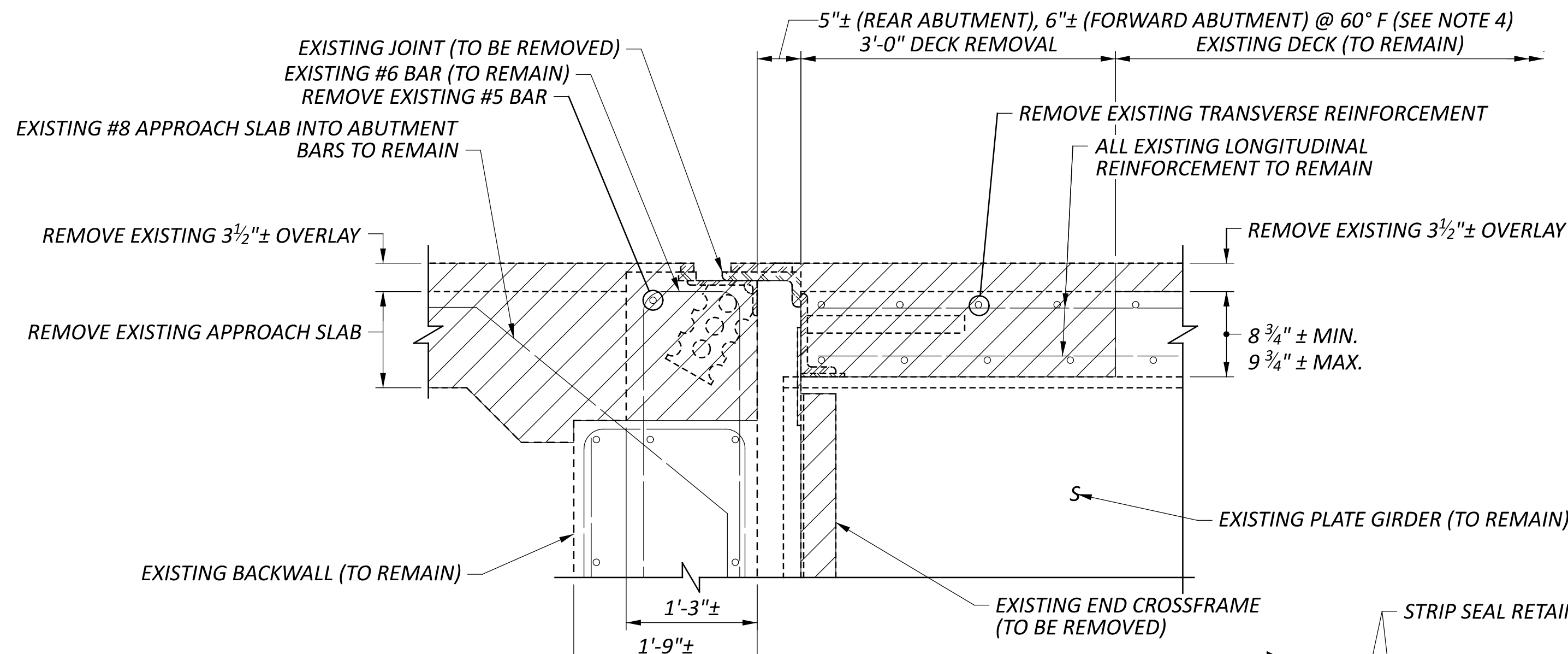
DESIGNER CHECKER
 DAF MKB

REVIEWER
 CDC 04/07/23

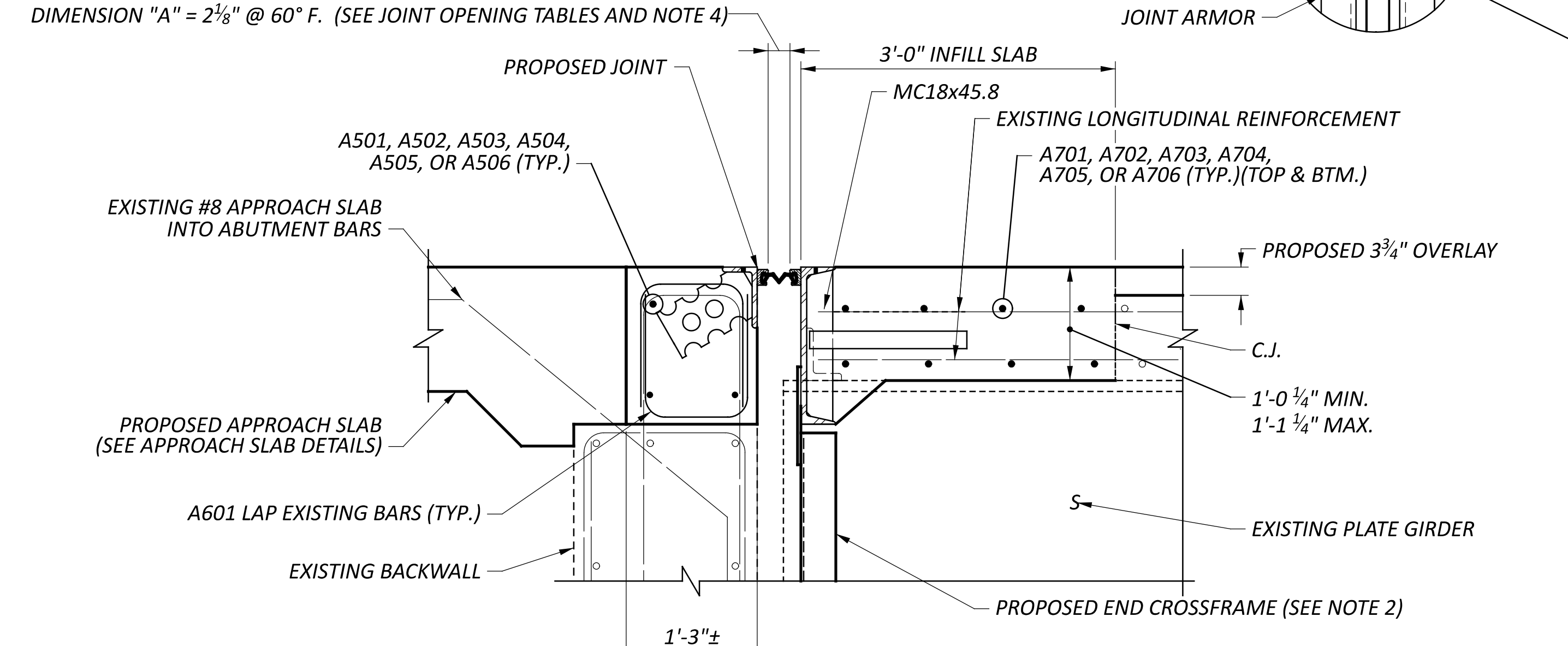
PROJECT ID
 76779

SUBSET TOTAL
 2 21

SHEET TOTAL
 P.1411 P.1587



SECTION 5
REMOVAL DETAILS



SECTION 5
PROPOSED JOINT DETAILS

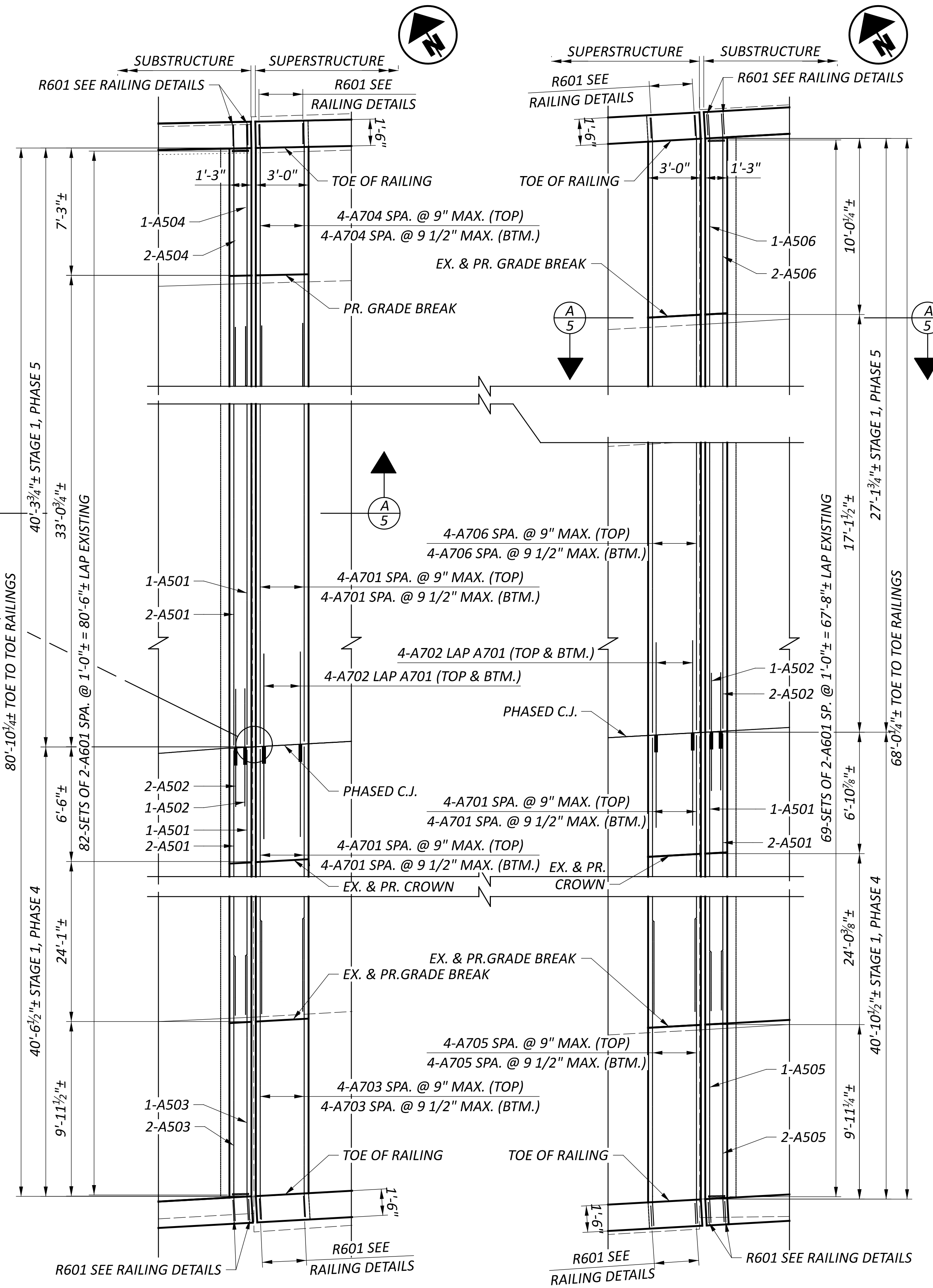
LEGEND:

DENOTES ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

NOTES:

- SEE ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN IN THE STRUCTURE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS INCLUDING SUBMISSION OF SURVEY DATA FOR APPROVAL PRIOR TO JOINT FABRICATION.
- REPLACE ALL END CROSSFRAMES CONNECTED TO THE EXPANSION JOINTS. INCLUDE WITH ITEM 513 - REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN FOR PAYMENT. FOR ADDITIONAL DETAILS, SEE ODOT SCD EX-4-87 AND GSD-1-19.
- MECHANICAL CONNECTORS TO BE PROVIDED AT PHASE LINES FOR TRANSVERSE BARS AS SHOWN. COST IS INCIDENTAL TO REINFORCEMENT.
- DIMENSION "A" IS MEASURED PERPENDICULAR TO THE JOINT.
- FOR PROPOSED RAILING DETAILS, SEE SHEETS 7 THROUGH 11/25
- JOINTS IN STRIP SEALS: FURNISH SEALS IN ONE CONTINUOUS PIECE.

JOINT OPENING DIMENSION "A" 4" STRIP SEAL		
TEMP. (°F)	REAR	FORWARD
30	2 7/8"	2 7/8"
40	2 5/8"	2 5/8"
50	2 3/8"	2 3/8"
60	2 1/8"	2 1/8"
70	1 7/8"	1 7/8"
80	1 5/8"	1 5/8"
90	1 3/8"	1 3/8"



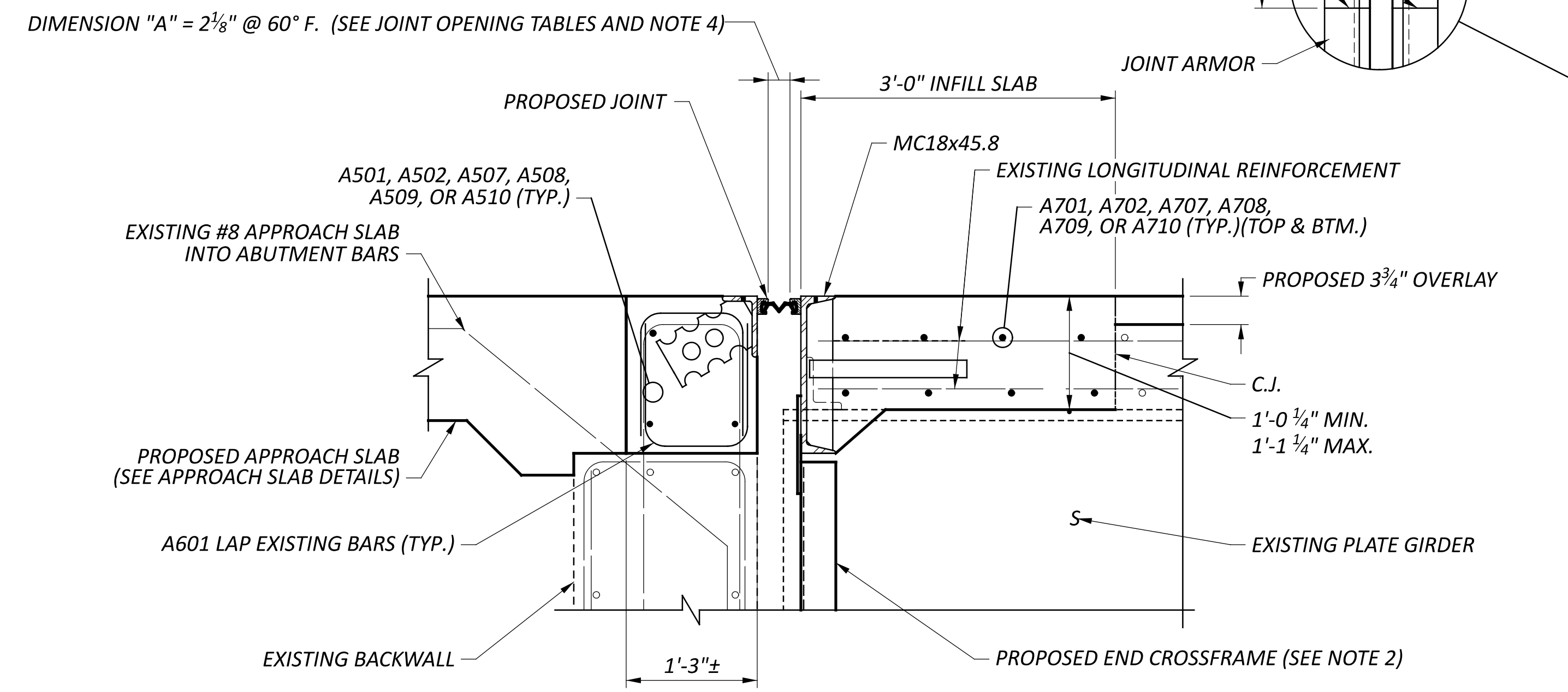
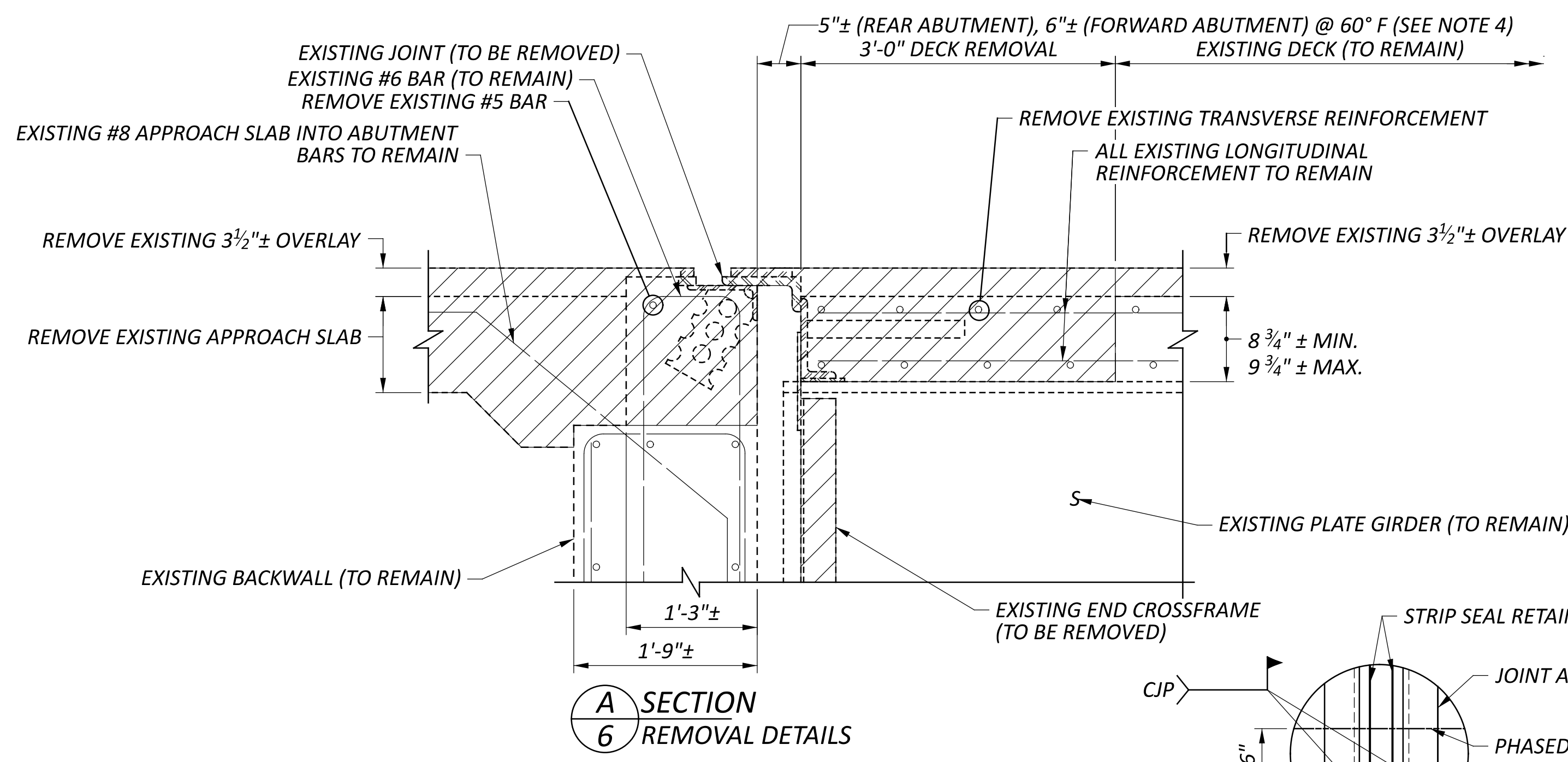
REAR ABUTMENT JOINT PLAN

WESTBOUND
EXISTING DECK REINFORCEMENT NOT SHOWN

FORWARD ABUTMENT JOINT PLAN

WESTBOUND
EXISTING DECK REINFORCEMENT NOT SHOWN

SFN	1808141
SFN	1808206
DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	MKB
CHECKER	LPC
REVIEWER	CDC
PROJECT ID	76779
SUBSET	5
TOTAL	25
SHEET	P.1435
TOTAL	P.1587



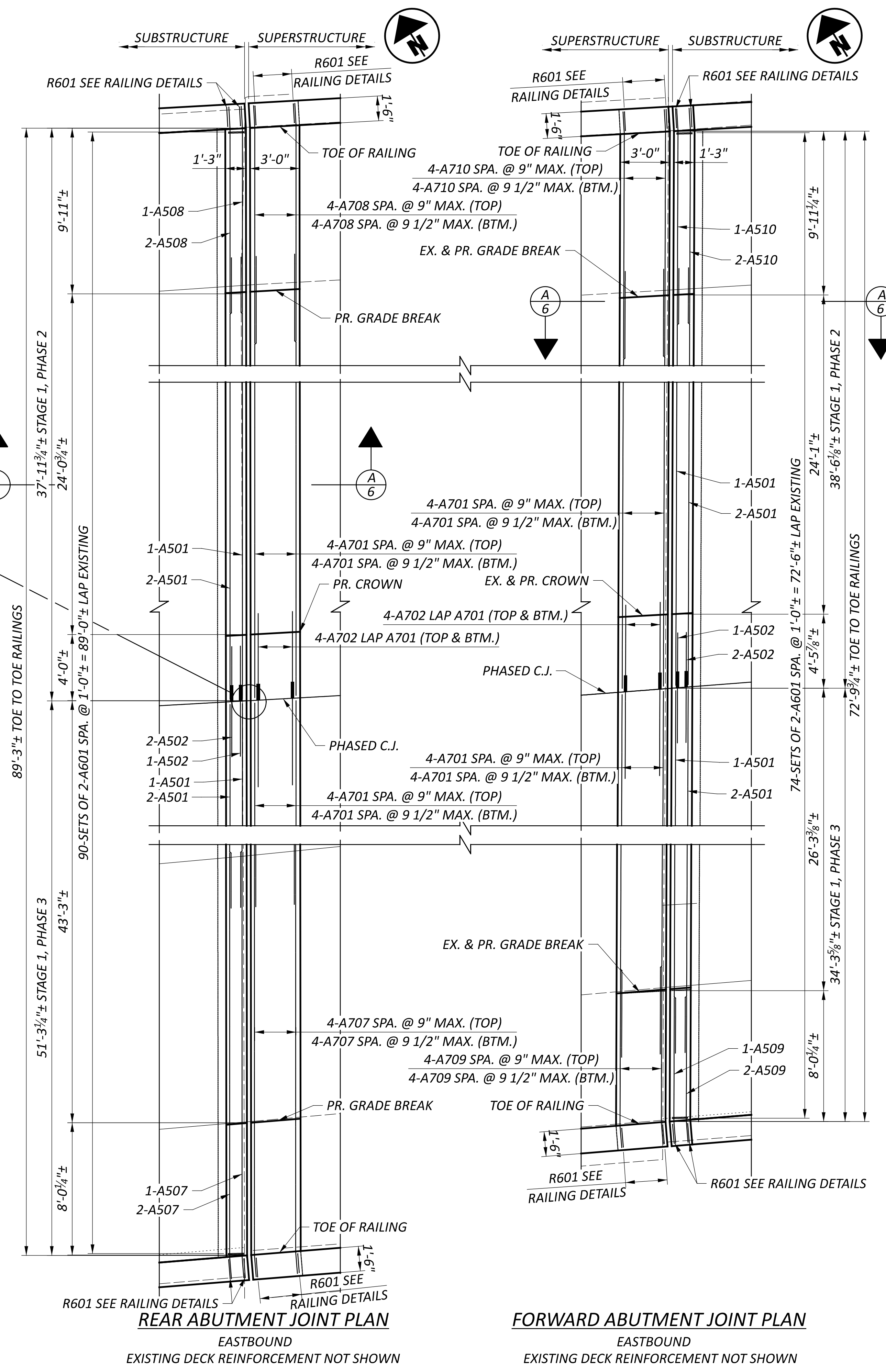
LEGEND:

DENOTES ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

NOTES:

- SEE ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN IN THE STRUCTURE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS INCLUDING SUBMISSION OF SURVEY DATA FOR APPROVAL PRIOR TO JOINT FABRICATION.
- REPLACE ALL END CROSSFRAMES CONNECTED TO THE EXPANSION JOINTS. INCLUDE WITH ITEM 513- REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN FOR PAYMENT. FOR ADDITIONAL DETAILS, SEE ODOT SCD EX-4-87 AND GSD-1-19.
- MECHANICAL CONNECTORS TO BE PROVIDED AT PHASE LINES FOR TRANSVERSE BARS AS SHOWN. COST IS INCIDENTAL TO REINFORCEMENT.
- DIMENSION "A" IS MEASURED PERPENDICULAR TO THE JOINT.
- FOR PROPOSED RAILING DETAILS, SEE SHEETS 7 THROUGH 11/25.
- JOINTS IN STRIP SEALS: FURNISH SEALS IN ONE CONTINUOUS PIECE.

JOINT OPENING DIMENSION "A" 4" STRIP SEAL		
TEMP. (°F)	REAR	FORWARD
30	2 7/8"	2 7/8"
40	2 5/8"	2 5/8"
50	2 3/8"	2 3/8"
60	2 1/8"	2 1/8"
70	1 7/8"	1 7/8"
80	1 5/8"	1 5/8"
90	1 3/8"	1 3/8"



EXPANSION JOINT DETAILS - RIGHT
 BRIDGE NO.: CUY-00090-09.700 L/R
 IR 90 OVER JOSLYN RD, NORFOLK SOUTHERN, AND GCRTA

SFN	1808141
SFN	1808206
DESIGN AGENCY	Michael Baker INTERNATIONAL
DESIGNER	MKB
CHECKER	LPC
REVIEWER	CDC
PROJECT ID	76779
SUBSET	6
TOTAL	25
SHEET	P.1436
TOTAL	P.1587

CALCULATED BY: SSW DATE: 04/05/23
 CHECKED BY: CDC DATE: 04/05/23

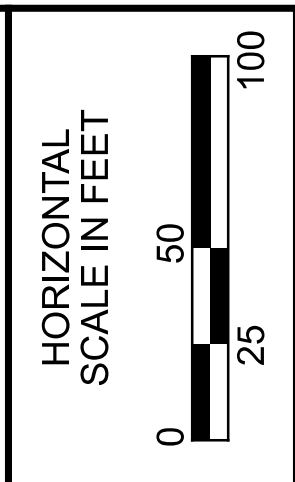
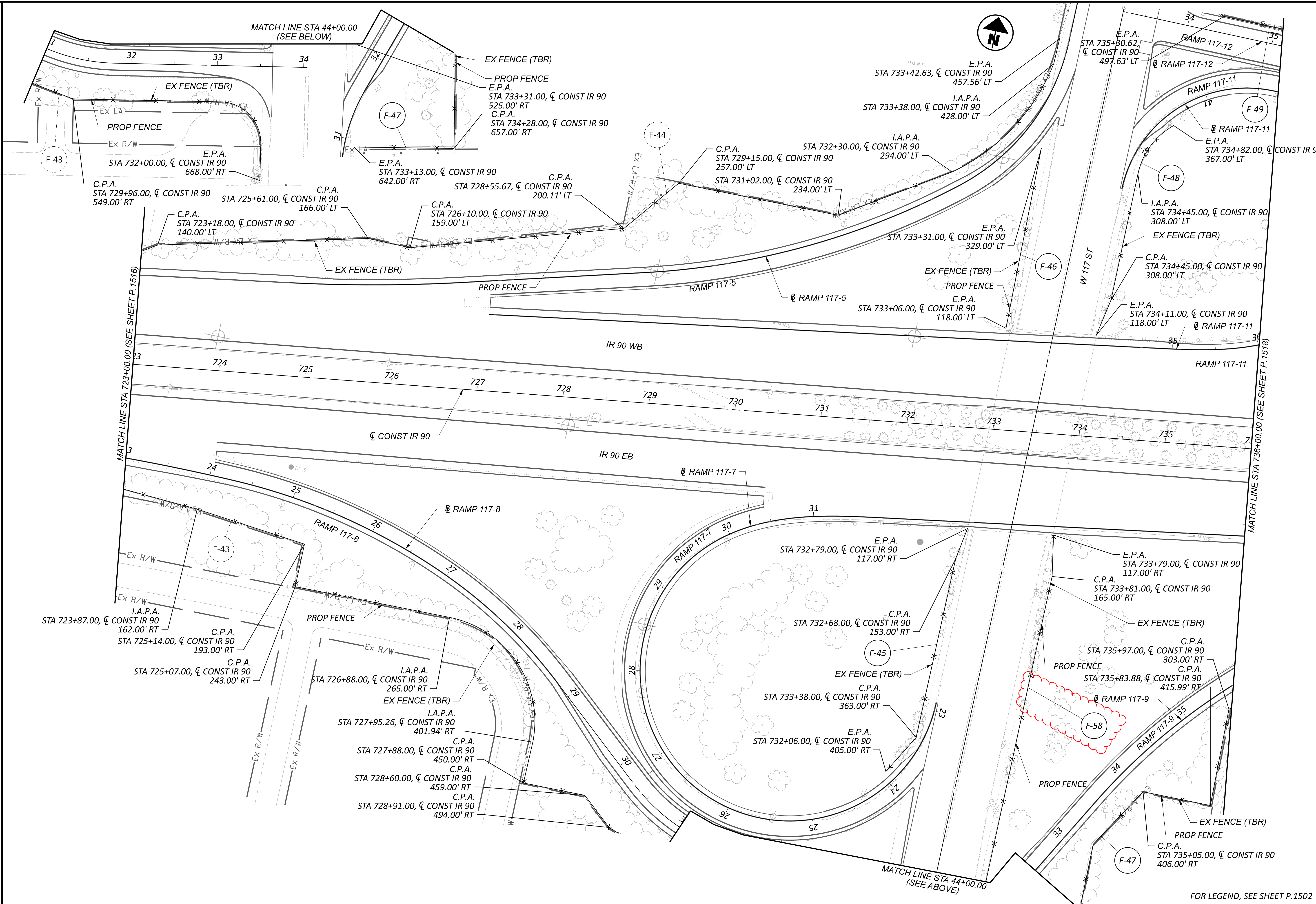
PARTICIPATION		ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REAR ABUTMENT	PIERS	FORWARD ABUTMENT	SUPER.	GENERAL	SHEET REF.
02/IMS/13	03/IMS/13											
LS		202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS	3, 8, 10, 11, 1348 / 1587
957		202	22900	957	SY	APPROACH SLAB REMOVED					957	
LS		503	11100	LS		COFFERDAMS AND EXCAVATION BRACING					LS	
LS		503	21300	LS		UNCLASSIFIED EXCAVATION					LS	
64420		509	10000	64420	LB	EPOXY COATED STEEL REINFORCEMENT	110		220	62160	1930	
8479		509	30020	8479	FT	NO. 4 DEFORMED GFRP REINFORCEMENT				7433	1046	
274		510	10000	274	EA	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	70		92		112	
4		511	33500	4	EA	SEMI-INTEGRAL DIAPHRAGM GUIDE	2		2			
347		511	34412	347	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE				347		
67		511	34450	67	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)				52	15	
3		511	45712	3	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT	1		2			
2039		512	10050	2039	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				1329	710	
1756		512	10100	1756	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	466		567	591	132	
122		512	10300	122	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN				95	27	
981		512	74001	981	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN	421		560			1350 / 1587
128		516	13600	128	SF	1" PREFORMED EXPANSION JOINT FILLER					128	
248		516	13900	248	SF	2" PREFORMED EXPANSION JOINT FILLER				248		
33		516	14600	33	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: COMPRESSED FOAM JOINT SEAL				33		
1043		516	25000	1043	SF	NYLON REINFORCED NEOPRENE SHEETING				1043		
32		516	44200	32	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), 3.023" THICK	16		16			
LS		516	47000	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE				LS		
174		518	21200	174	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC					174	
285		518	40000	285	FT	6" PERFORATED CORRUGATED PLASTIC PIPE					285	
293		518	40010	293	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS					293	
950		519	11101	950	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	816		134			4, 5, 6, 7, 8
957		526	30010	957	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17")					957	
286		526	90010	286	FT	TYPE A INSTALLATION					286	
300		607	39900	300	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC				300		
1329		848	10201	1329	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION 3 3/4" INCH THICK, AS PER PLAN				1329		1350 / 1587
1329		848	20000	1329	SY	SURFACE PREPARATION USING HYDRODEMOLITION				1329		
6		848	30200	6	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY				6		
11		848	50000	11	SY	HAND CHIPPING				11		
LS		848	50100	LS		TEST SLAB					LS	
1329		848	50320	1329	SY	EXISTING CONCRETE OVERLAY REMOVED, 3 1/2" NOMINAL THICKNESS				1329		
100		848	50340	100	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY				100		

CUY-90-06.690

MODEL: Sheet PAPER/DATE: 3/4/22 (in.) DATE: 4/29/2024 TIME: 12:16:01 PM USER: Zachary,Stark
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ESTIMATED QUANTITIES
 BRIDGE NO.: CUY-00090-09.910 L/R
 IR 90 OVER BERE RD

SFN	1808214
SFN	1808230
DESIGN AGENCY	
Michael Baker	
INTERNATIONAL	
DESIGNER	CHECKER
SSW	MKB
REVIEWER	
CDC	04/07/23
PROJECT ID	
	76779
SUBSET	TOTAL
2	28
SHEET	TOTAL
P.1457	P.1587



FENCING PLAN
STA 723+00.00 TO STA 736+00.00

DESIGN AGENCY	STRUCTUREPOINT
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.1517 P.1587

FOR LEGEND, SEE SHEET P.1502