

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	488 CU. YD.
659, SEEDING AND MULCHING	4,389 SQ. YD.
659, REPAIR SEEDING AND MULCHING	219 SQ. YD.
659, INTER-SEEDING	219 SQ. YD.
659, COMMERCIAL FERTILIZER	0.61 TON
659, LIME	0.91 ACRES
659, WATER	36 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 690 - SPECIAL - MAILBOX REMOVED AND RESET

THIS WORK SHALL CONSIST OF REMOVAL OF EXISTING MAILBOX AND SUPPORT AND RESETTING EXISTING MAILBOX ON NEW SUPPORT WITH ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AT LOCATION SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFROM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE EXISTING MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

PAYMENT FOR ALL WORK DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX REMOVED AND RESET.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

ALL WORK FOR THIS ITEM SHALL BE IN ACCORDANCE WITH ITEM 254 - PAVEMENT PLANING, AND THE TOP OF EXISTING CONCRETE PAVEMENT SHALL BE SCARIFIED PRIOR TO OVERLAYING WITH ASPHALT.

ITEM 305 - 9" CONCRETE BASE, CLASS QC 1P, AS PER PLAN (REINFORCED)

ALL WORK FOR THIS ITEM SHALL BE IN ACCORDANCE WITH ITEM 305 - CONCRETE BASE, CLASS QC 1P EXCEPT THE PAVEMENT SHALL BE REINFORCED PER CMS SECTION 451 TO MATCH EXISTING PAVEMENT. TRANSVERSE JOINTS SHALL BE AT THE SAME LOCATION, ALIGNMENT, AND TYPE AS THE EXISTING PAVEMENT.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN, PG70-22M

ALL WORK FOR THIS ITEM SHALL BE IN ACCORDANCE WITH ITEM 441 ASPHALT CONCRETE SURFACE COURSE EXCEPT THAT 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.

PLANED SURFACES

THE DURATION OF TIME BETWEEN MILLING AND PLACEMENT OF THE SURFACE COURSE SHALL BE NO LONGER THAN TEN (10) DAYS. THE TIME LIMIT SHALL BEGIN ON THE FIRST DAY OF PLANING, AND SHALL CONTINUE BASED ON CALENDAR DAYS, MINUS ANY BAD WEATHER DAYS, UNTIL COMPLETION OF THE ASPHALT CONCRETE SURFACE COURSE. THIS IS TO ENSURE THAT THE POTENTIAL DEGRADATION OF THE EXPOSED PAVEMENT DUE TO TRAFFIC IS KEPT TO A MINIMUM.

IN THE EVENT THAT THE TIME BETWEEN EXPOSING THE EXISTING PAVEMENT AND PLACING THE ASPHALT CONCRETE SURFACE COURSE EXCEEDS 10 CALENDAR DAYS, LIQUIDATED DAMAGES AS PER 108.07 OF THE C&MS SHALL BE ASSESSED.

ITEM 203 - GRANULAR MATERIAL, TYPE B, AS PER PLAN

PLACE AND COMPACT GRANULAR MATERIAL, TYPE B IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE BRIDGE APPROACH EMBANKMENT ALONG C.R. 97 (E. SCHAAF RD.).

EARTHWORK

THE FOLLOWING EARTHWORK QUANTITIES ARE NOT DEPICTED IN THE CROSS SECTION SHEETS AND ARE CARRIED TO THE GENERAL SUMMARY:

LOCATION	STATION RANGE		ITEM 203 - EXCAVATION	ITEM 203 - EMBANKMENT	ITEM 203 - GRANULAR MATERIAL, TYPE B, APP
			CY	CY	CY
REAR ABUTMENT	CL CONST. C.R. 97	STA. 214+90 TO ABUTMENT	-	-	1123
FORWARD ABUTMENT	CL CONST. C.R. 97	ABUTMENT TO STA. 217+20	-	-	603
RAMP NO. 1 INTERSECTION	BL CONST. RAMP NO. 1	STA. 6+50 TO INTERSECTION	87	8	-
RAMP NO. 2 INTERSECTION	BL CONST. RAMP NO. 2	STA. 5+00 TO INTERSECTION	35	8	-
TOTAL			122	16	1726

ASPHALT CONCRETE SURFACE COURSE SEALING REQUIREMENTS

IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED IN SCD BP-3.1 AND C&MS 401.08 (D), AFTER COMPLETION OF THE SURFACE COURSE, THE CONTRACTOR SHALL USE A CERTIFIED 702.01 PG BINDER TO SEAL THE FOLLOWING LOCATIONS:

- ALL CASTINGS INCLUDING BUT NOT LIMITED TO MONUMENTS, MANHOLES, WATER VALVES, CATCH BASINS, CURB INLETS.
- BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
- FORWARD JOINT FOR DRIVEWAY ASPHALT AND TRAILING JOINT WHEN BUTTING TO EXISTING ASPHALT DRIVE.
- PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER ASPHALT INLAYS WHEN PAVEMENT REPAIRS/INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.
- ALL COLD LONGITUDINAL JOINTS BETWEEN PAVED SHOULDERS AND GUARDRAIL ASPHALT.

THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2-3 INCHES.

ANY ADDITIONAL COSTS ASSOCIATED WITH THE WORK IDENTIFIED IN THIS NOTE SHALL BE INCLUDED IN THE APPROPRIATE ASPHALT CONCRETE SURFACE COURSE ITEM OF WORK.

ITEM 202 - REMOVAL MISC.: ABANDONED STEEL GAS MAIN REMOVED

REMOVE AND DISPOSE OF ABANDONED STEEL GAS MAIN IN ACCORDANCE WITH CMS 202.

AUTOBAHN EXTREMIST PROPERTY

ACCESS TO THE REAR OF THE PROPERTY SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. NO STORAGE OF EQUIPMENT OR MATERIALS ON PROPERTY IS PERMITTED.

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEY MONUMENTS

PER CMS 623.04 AND 623.05, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING SURVEY MONUMENTS SHOWN IN THE SCHEMATIC PLAN SHEET P.2 AND THE RIGHT OF WAY PLAN SHEETS RV.1 TO RW.8 PRIOR TO BEGINNING OF CONSTRUCTION. THE PRE-CONSTRUCTION REPORT SHALL BE SUBMITTED PRIOR TO THE COMMENCEMENT OF WORK, AND POST-CONSTRUCTION REPORT SHALL BE SUBMITTED PRIOR TO OR IN CONJUNCTION WITH THE FINAL INSPECTION REPORT, TO THE DISTRICT SURVEY OPERATIONS MANAGER. EXISTING MONUMENTATION SHALL BE PRESERVED AND PERPETUATED THROUGHOUT THE PROJECT. ANY MONUMENTATION THAT IS DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE RESET BY THE CONTRACTOR'S SURVEYOR.

THE DEPARTMENT'S STANDARDIZED VERIFICATION REPORT TEMPLATE CAN BE FOUND AT THE FOLLOWING LOCATION:
<https://www.dot.state.oh.us/divisions/constructionmgt/documents/forms/allitems.aspx>

ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING.

ALL EXISTING SURVEY MONUMENTATION THAT IS VISIBLE ON THE SURFACE OF THE EXISTING PAVEMENT, OR IS UNCOVERED DURING CONSTRUCTION, SHALL BE ADJUSTED TO GRADE, OR IF SUBSTANTIAL DETERIORATION IS DETERMINED BY THE ENGINEER, RECONSTRUCTED TO GRADE. THESE ADJUSTMENTS AND RECONSTRUCTIONS SHALL BE PAID FOR UNDER THE PERTINENT 623 PAY ITEMS.

ITEM 202 - REMOVAL MISC: MONUMENT ASSEMBLY REMOVED, CRGS MONUMENT

EXISTING CLEVELAND REGIONAL GEODETIC SURVEY (CRGS) MONUMENT OM-0162, DESIGNATED AS MV4 IN THE PLANS, SHALL BE CAREFULLY REMOVED AND PRESERVED ON SITE FOR SALVAGE BY THE COUNTY. THE CONTRACTOR SHALL NOTIFY THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS SURVEY SECTION AT (216) 348-3846 WHEN THE MONUMENT CASTING AND BRONZE CRGS MARKER MAY BE PICKED UP.

THE EXISTING MONUMENT SHALL BE LEFT UNDISTURBED UNTIL THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS' SURVEY SECTION HAS CHECKED/VERIFIED THE REFERENCES PROVIDED BY THE CONTRACTOR'S SURVEYOR. IN ALL CASES, THE CONTRACTOR SHALL CONTACT THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS' SECTION AT (216) 348-3846 NO LESS THAN TWO (2) WEEKS PRIOR TO THE DISTURBANCE OF ANY EXISTING MONUMENTS.

THE FOLLOWING QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 202 - REMOVAL MISC: MONUMENT ASSEMBLY REMOVED, CRGS MONUMENT	1 EACH
---	--------

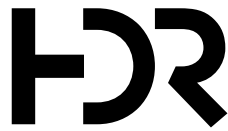
ITEM 623 - MONUMENT ASSEMBLY ADJUSTED TO GRADE

EXISTING CENTERLINE MONUMENT ASSEMBLY, DESIGNATED AS MV3 IN THE PLANS, SHALL BE ADJUSTED TO GRADE PRESERVING THE ITON PIN MOUMENT INSIDE OF THE MONUMENT ASSEMBLY.

THE FOLLOWING QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 623 - MONUMENT ASSEMBLY ADJUSTED TO GRADE	1 EACH
--	--------

DESIGN AGENCY



DESIGNER

TJS

REVIEWER

MJL 04/25/24

PROJECT ID

112998

SHEET

P.11

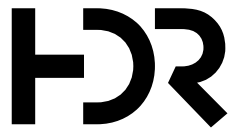
TOTAL

151

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	P.11	P.16	P.27	P.28	P.29	P.30	P.31	P.33	P.46	P.59	P.63	P.65	01/BRO						
													LS	201	11000	LS		ROADWAY	
					1,369	756							2,125	202	23000	2,125	SY	CLEARING AND GRUBBING	
			486										486	202	30000	486	SF	PAVEMENT REMOVED	
			263										263	202	30600	263	SY	WALK REMOVED	
			1,494										1,494	202	32000	1,494	FT	CONCRETE MEDIAN REMOVED	
																		CURB REMOVED	
							70						70	202	32700	70	SY	GUTTER REMOVED	
							406						406	202	35100	406	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
			2,105										2,105	202	38000	2,105	FT	GUARDRAIL REMOVED	
			4										4	202	42000	4	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A	
			2										2	202	42040	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
			2										2	202	42210	2	EACH	ANCHOR ASSEMBLY REMOVED, BARRIER DESIGN	
			3										3	202	47000	3	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
							2						2	202	58000	2	EACH	MANHOLE REMOVED	
							5						5	202	58100	5	EACH	CATCH BASIN REMOVED	
							85						85	SPECIAL	20270000	85	FT	FILL AND PLUG EXISTING CONDUIT, 12"	P.12
	1												1	202	98100	1	EACH	REMOVAL MISC.: MONUMENT ASSEMBLY REMOVED, CRGS MONUMENT	P.11
			400										400	202	98200	400	FT	REMOVAL MISC.: ABANDONED STEEL GAS MAIN REMOVED, 20"	P.11
			55										55	202	98200	55	FT	REMOVAL MISC.: ABANDONED STEEL GAS MAIN REMOVED, 6"	P.11
	122								119	1,067	76	25	1,409	203	10000	1,409	CY	EXCAVATION	
	16									342	11	6	375	203	20000	375	CY	EMBANKMENT	
	1,726								1,899				3,625	203	35111	3,625	CY	GRANULAR MATERIAL, TYPE B, AS PER PLAN	P.11
					2,251	1,245							3,496	204	10000	3,496	SY	SUBGRADE COMPACTION	
				462.5									462.5	606	15050	462.5	FT	GUARDRAIL, TYPE MGS	
				100									100	606	15100	100	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
				1									1	606	20050	1	EACH	ROUNDED END SECTION	
				2									2	606	26150	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	P.10
				4									4	606	26550	4	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				2									2	606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
				2									2	606	35102	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
				2									2	606	60051	2	EACH	IMPACT ATTENUATOR, TYPE 3 (BIDIRECTIONAL), AS PER PLAN (40 MPH, 24" WIDTH)	P.12
					672								672	608	10000	672	SF	4" CONCRETE WALK	
					42								42	608	52000	42	SF	CURB RAMP	
				336									336	609	16000	336	FT	CURB, TYPE 2-B	
				49									49	609	24510	49	FT	CURB, TYPE 4-C	
				332									332	609	26000	332	FT	CURB, TYPE 6	
				122									122	609	71000	122	SF	CONCRETE MEDIAN	
				124									124	622	10120	124	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C	
				2									2	622	24840	2	EACH	CONCRETE BARRIER END SECTION, TYPE B	
				4									4	622	25008	4	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C	
	1												1	623	39500	1	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE	
		1		4									5	SPECIAL	69050350	5	EACH	MAILBOX REMOVED AND RESET	P.11
																		EROSION CONTROL	
							111						111	601	21060	111	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
							52						52	601	32100	52	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
							2						2	601	32200	2	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
	2												2	659	00100	2	EACH	SOIL ANALYSIS TEST	
	488												488	659	00300	488	CY	TOPSOIL	
	4,389												4,389	659	10000	4,389	SY	SEEDING AND MULCHING	
	219												219	659	14000	219	SY	REPAIR SEEDING AND MULCHING	
	219												219	659	15000	219	SY	INTER-SEEDING	
	0.61												0.61	659	20000	0.61	TON	COMMERCIAL FERTILIZER	
	0.91												0.91	659	31000	0.91	ACRE	LIME	
	36												36	659	35000	36	MGAL	WATER	
							214						214	670	00720	214	SY	DITCH EROSION PROTECTION MAT, TYPE B	
								LS					LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
								LS					LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
								LS					LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
								29,824					29,824	832	30000	29,824	EACH	EROSION CONTROL	
							80						80	836	10000	80	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

BMV

REVIEWER

TJS 04/25/24

PROJECT ID

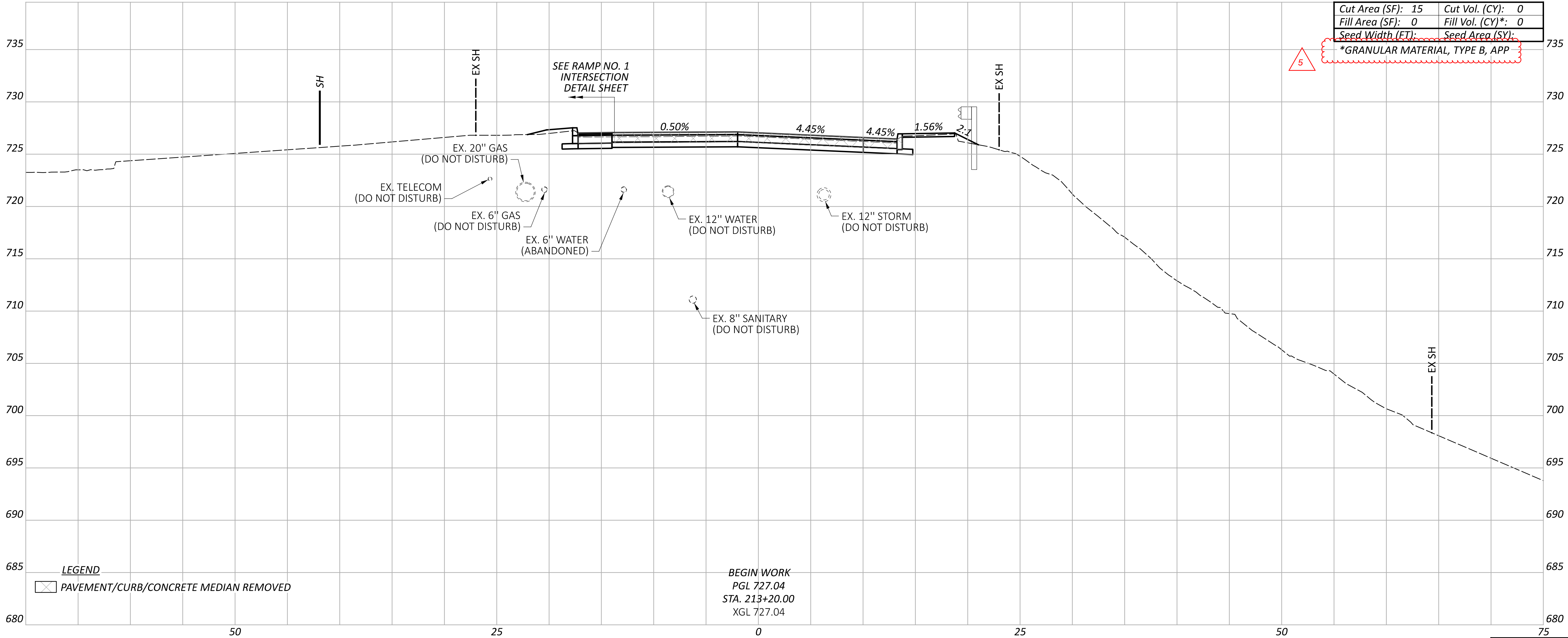
112998

SHEET

P.24

TOTAL

151



Cut Area (SF):	15	Cut Vol. (CY):	0
Fill Area (SF):	0	Fill Vol. (CY)*:	0
Seed Width (FT):		Seed Area (SY):	
*GRANULAR MATERIAL, TYPE B, APP			

Sheet Totals				PROJECT ID	
Seeding	Cut	Fill*	SHEET	TOTAL	
0	0	0	P.39	151	

CROSS SECTIONS - C.R. 97 (E. SCHAAF RD.)
STA. 213+20.00

DESIGN AGENCY



DESIGNER

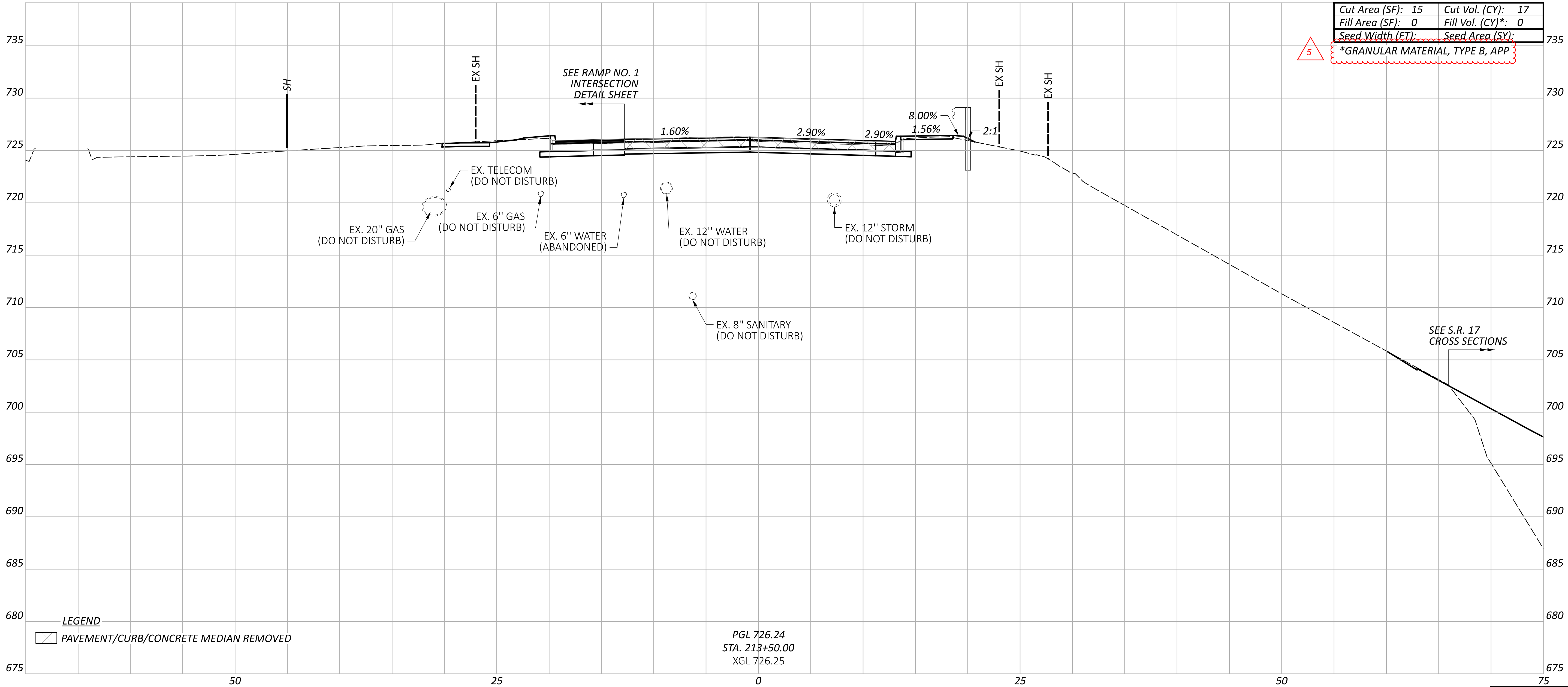
TJS

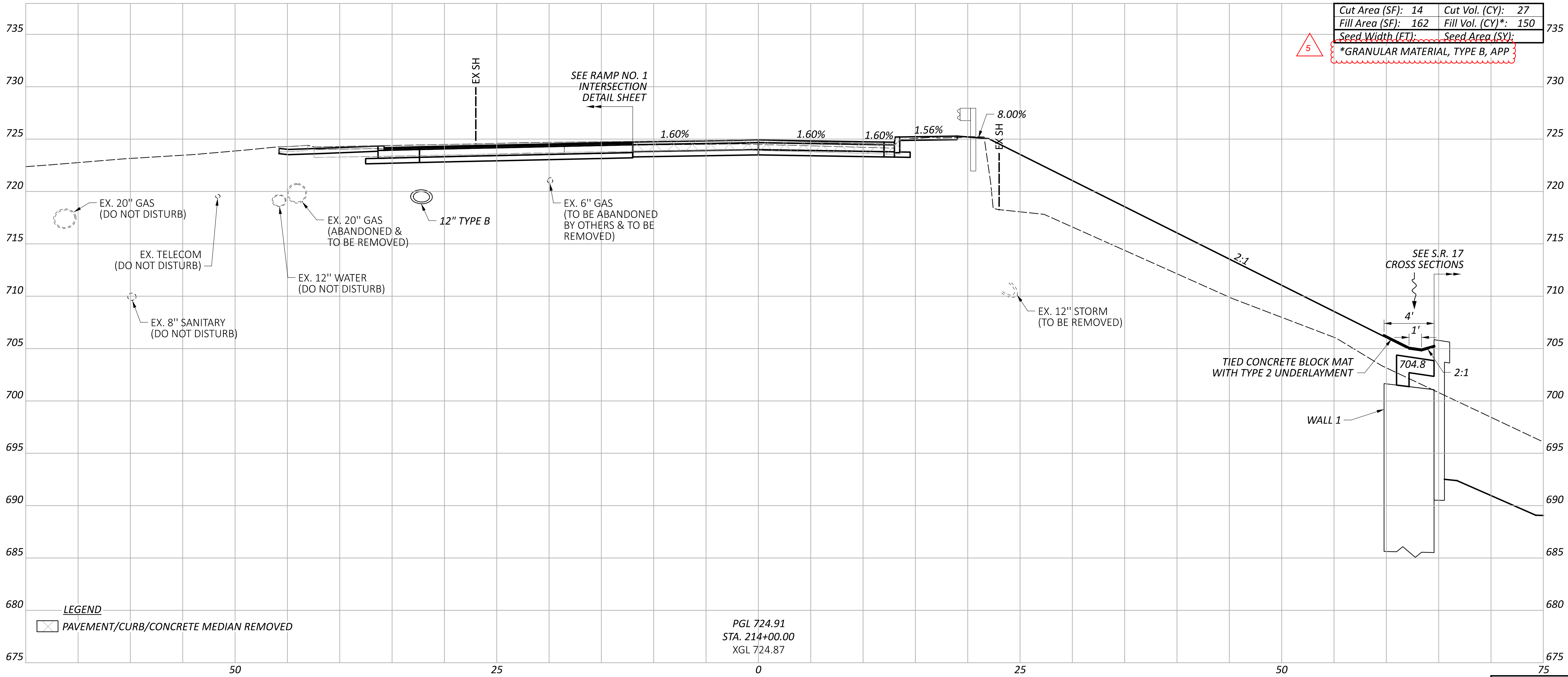
REVIEWER

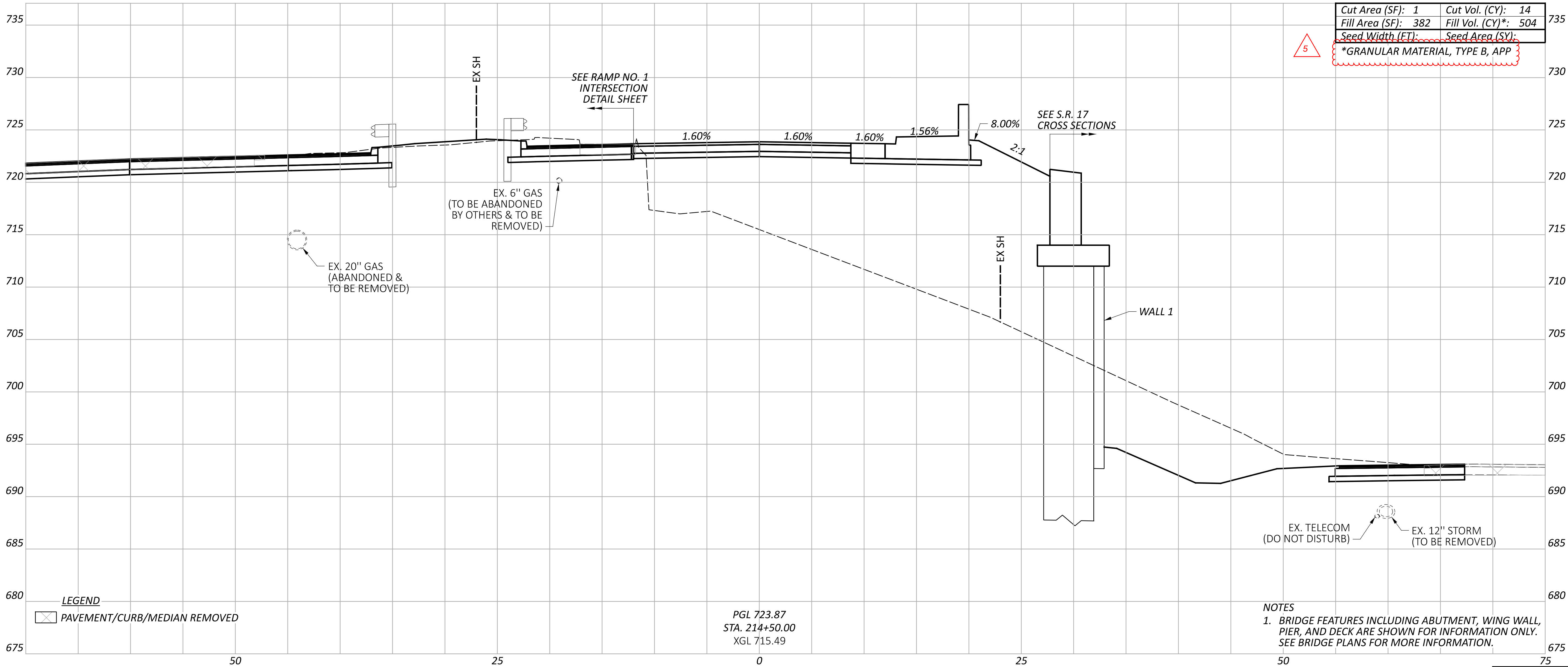
CO 04/25/24

PROJECT ID

112998



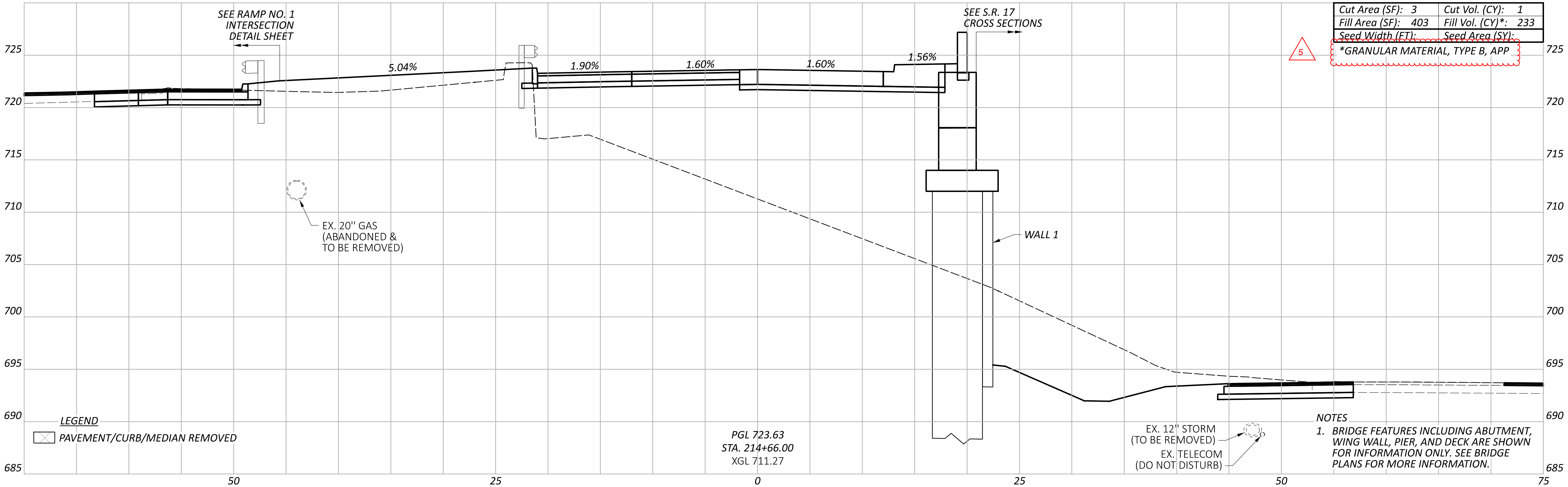
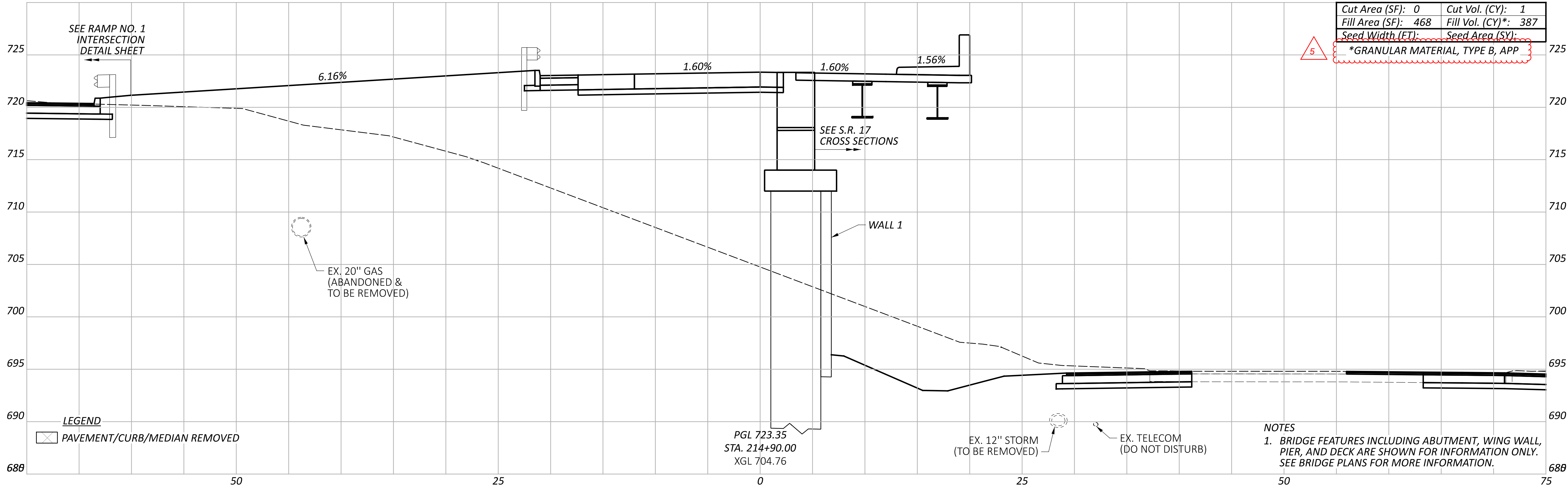




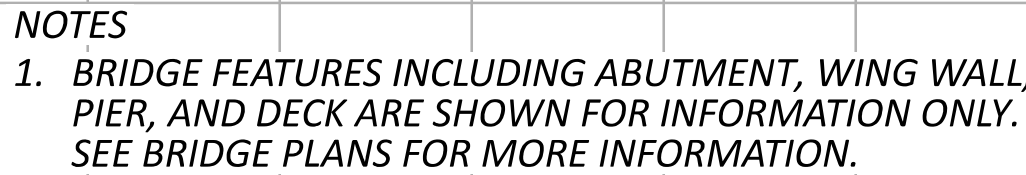
Sheet Totals			SHEET TOTAL	
Seeding	Cut	Fill*	P.42	151
	14	504		

CROSS SECTIONS - C.R. 97 (E. SCHAAF RD.)
STA. 214+50.00

DESIGN AGENCY
DR
DESIGNER
TJS
REVIEWER
CO 04/25/24
PROJECT ID
112998



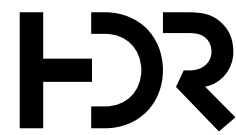
PAPER SIZE: 34x22 (in.) DATE: 7/28/2026 TIME: 3:41:32 PM USER: TSCHOEN
DGN: c:\pwworking\east01\d2570476\112998 XS001.dgn MODEL: CLP E Schaaf Rd - 217+20.00-1 [Sheet]



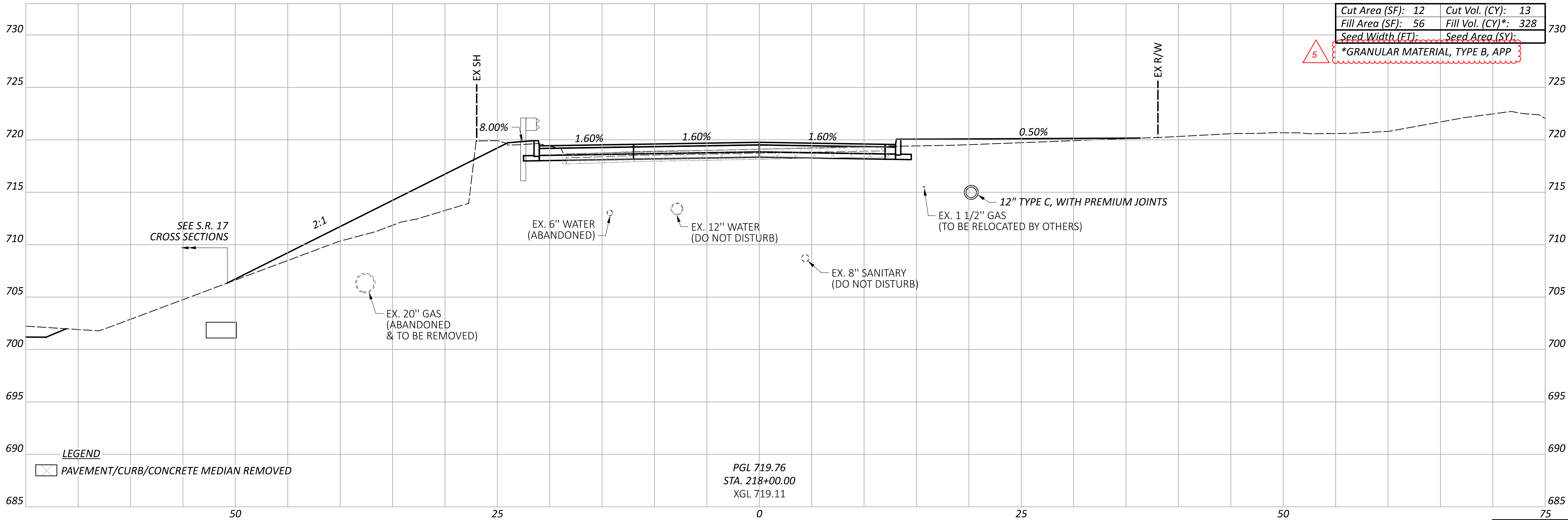
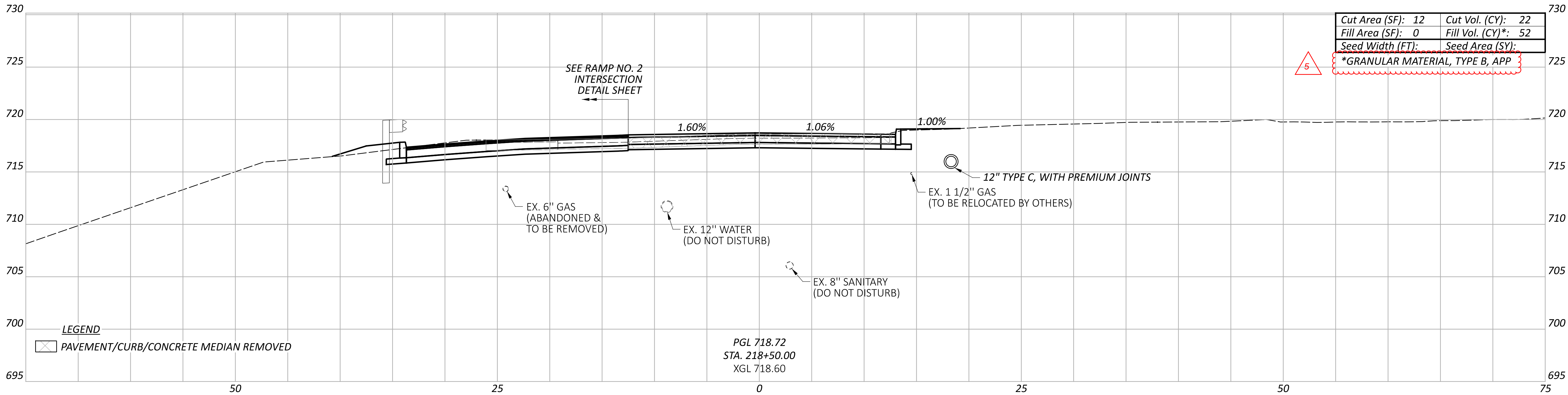
Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 292	Fill Vol. (CY)*: 0
Seed Width (FT):	Seed Area (SY):

Sheet Totals			112998	
Seeding	Cut	Fill*	SHEET	TOTAL
	0	245	P.44	151

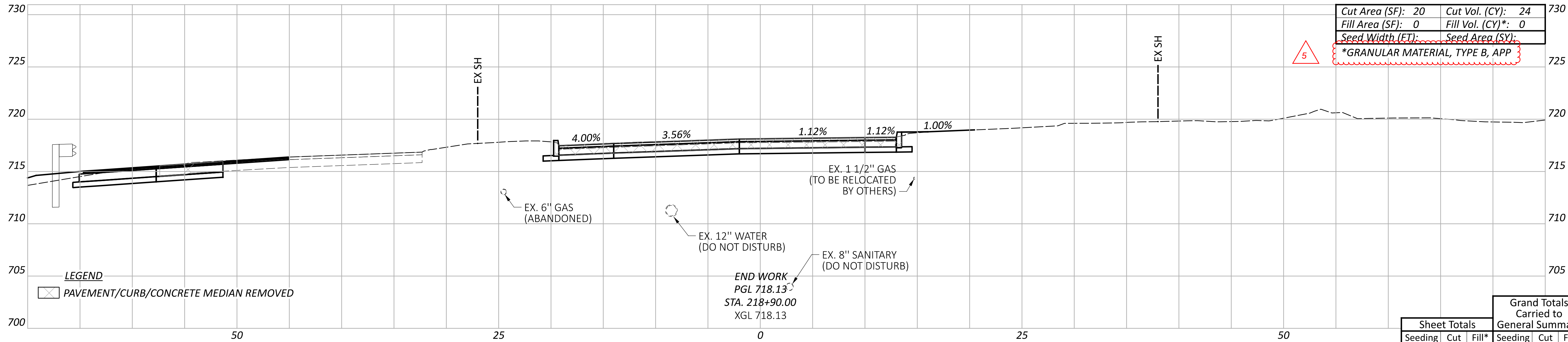
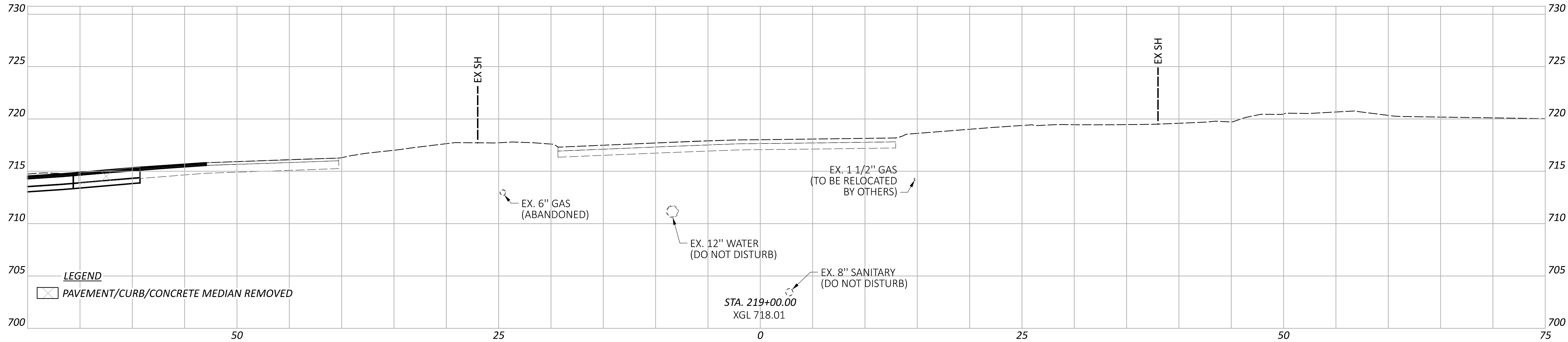
DESIGN AGENCY



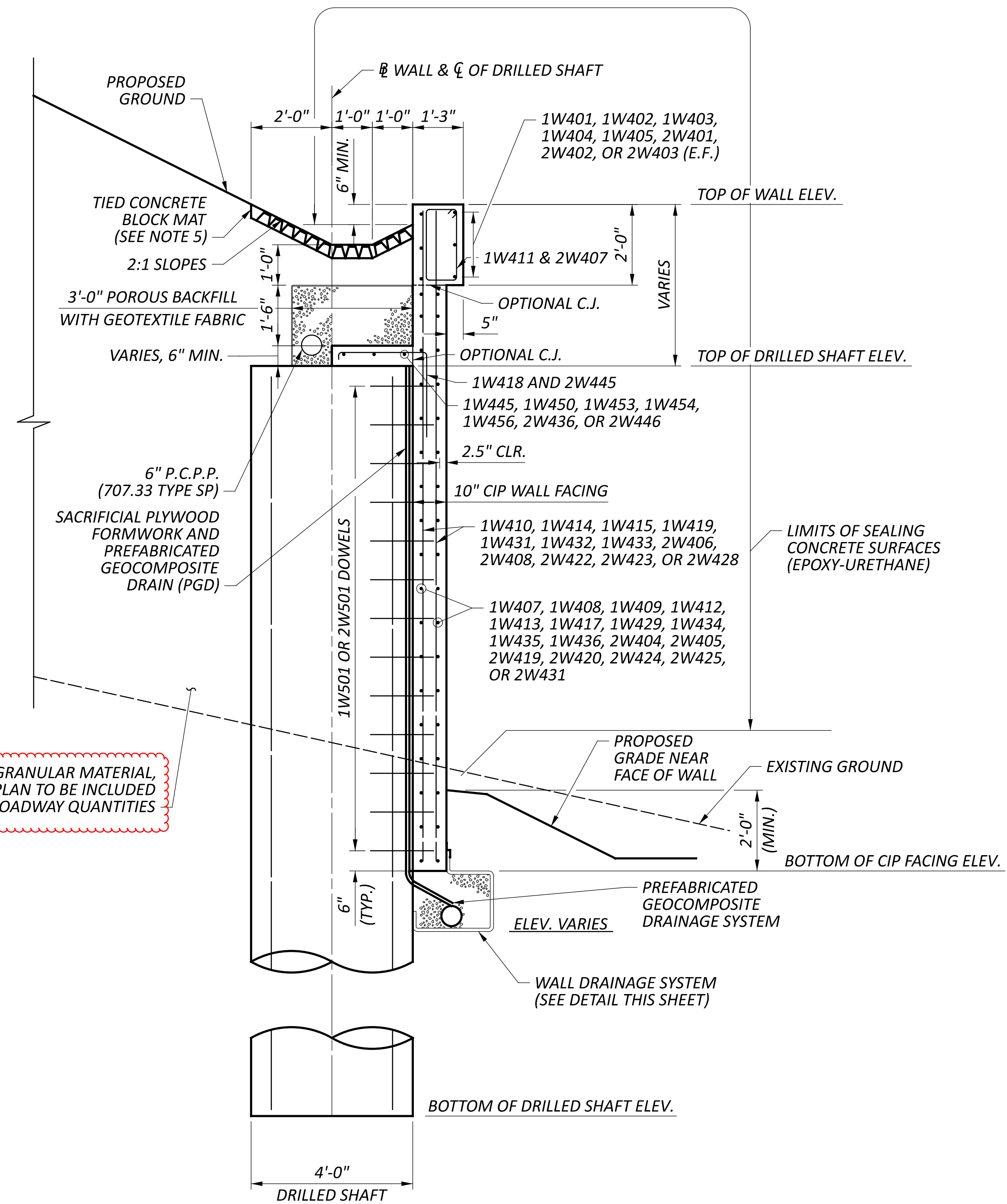
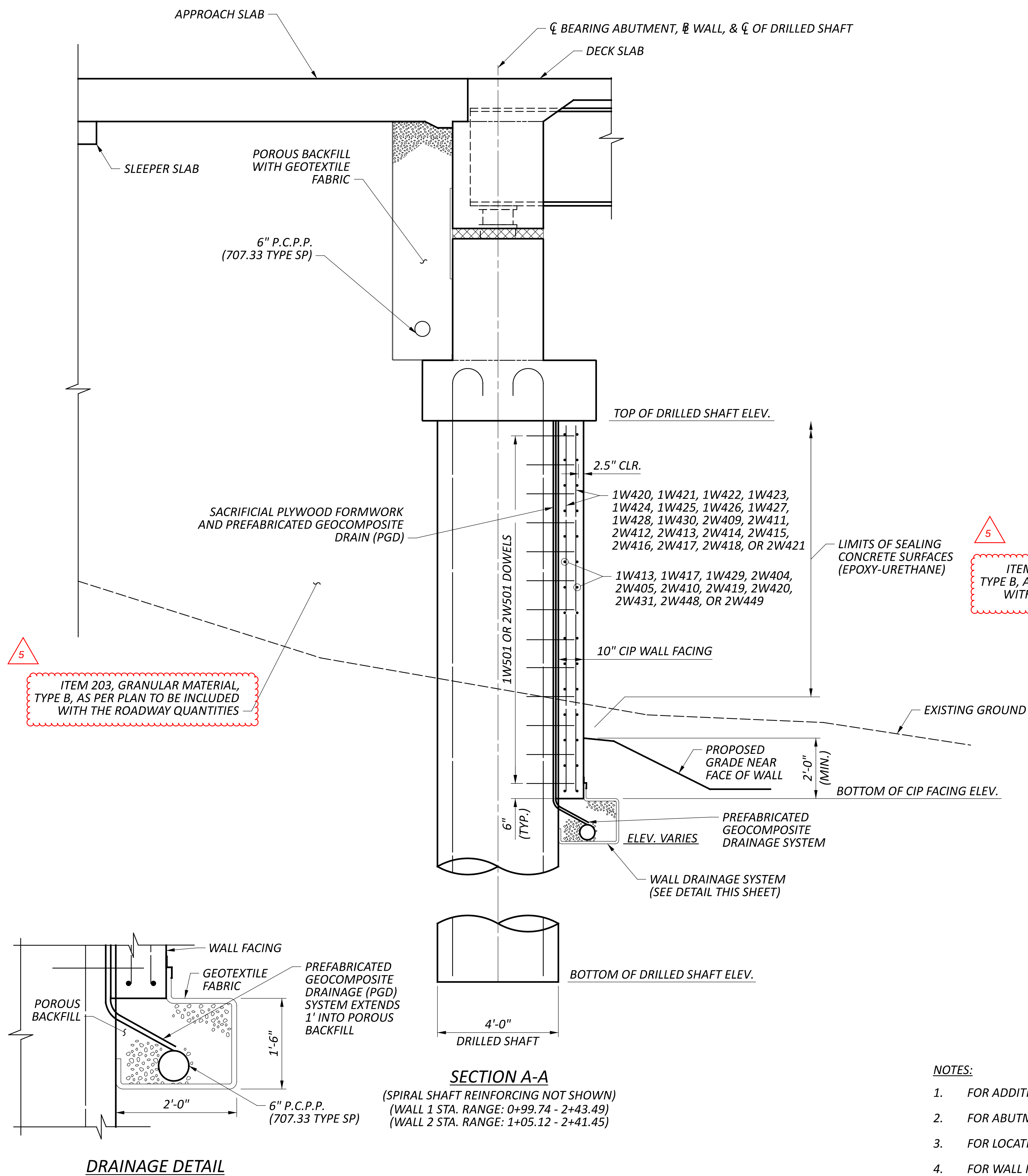
DESIGNER	TJS
REVIEWER	CO 04/25/24
PROJECT ID	112222



Sheet Totals			112998	
Seeding	Cut	Fill*	SHEET	TOTAL
	35	380	P.45	151



Sheet Totals			Grand Totals Carried to General Summary			SHEET	TOTAL
Seeding	Cut	Fill*	Seeding	Cut	Fill*		
	24	0		119	1899	P.46	151



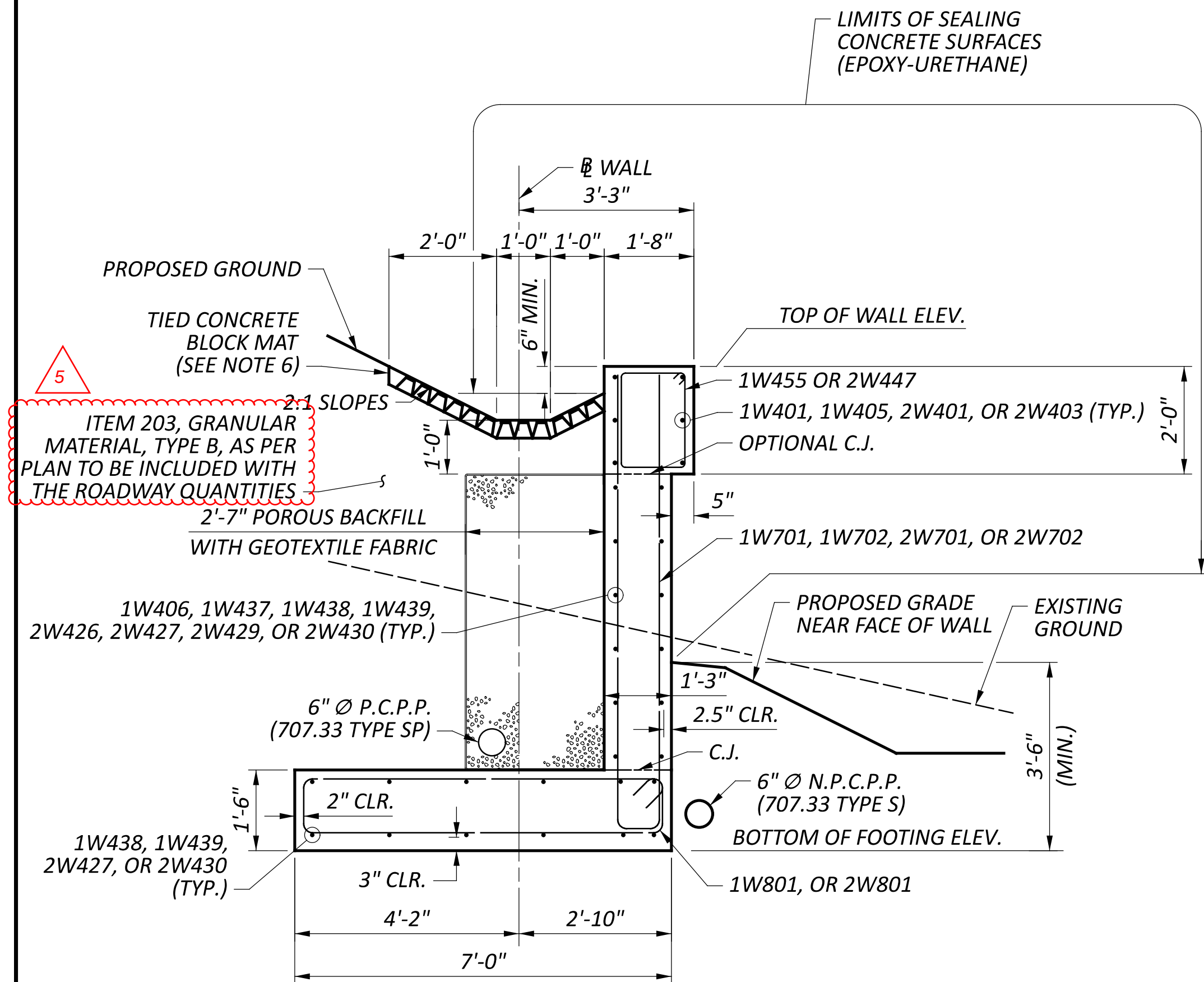
NOTES:

- FOR ADDITIONAL DRILLED SHAFT INFORMATION SEE GENERAL NOTES SHEETS 2 OF 51 THRU 4 OF 51.
- FOR ABUTMENT DETAILS, SEE SHEETS 22 OF 51 THRU 25 OF 51.
- FOR LOCATIONS OF SECTION A-A AND B-B, DRAINAGE LAYOUT, AND WALL PLAN AND ELEVATION, SEE SHEETS 11 OF 51 THRU 12 OF 51.
- FOR WALL INFORMATION TABLE SEE SHEET 15 OF 51.
- TIED CONCRETE BLOCK MAT SHALL BE LOCATED OUTSIDE THE LIMITS OF THE ABUTMENT. FOR ADDITIONAL INFORMATION SEE DRAINAGE DETAILS.

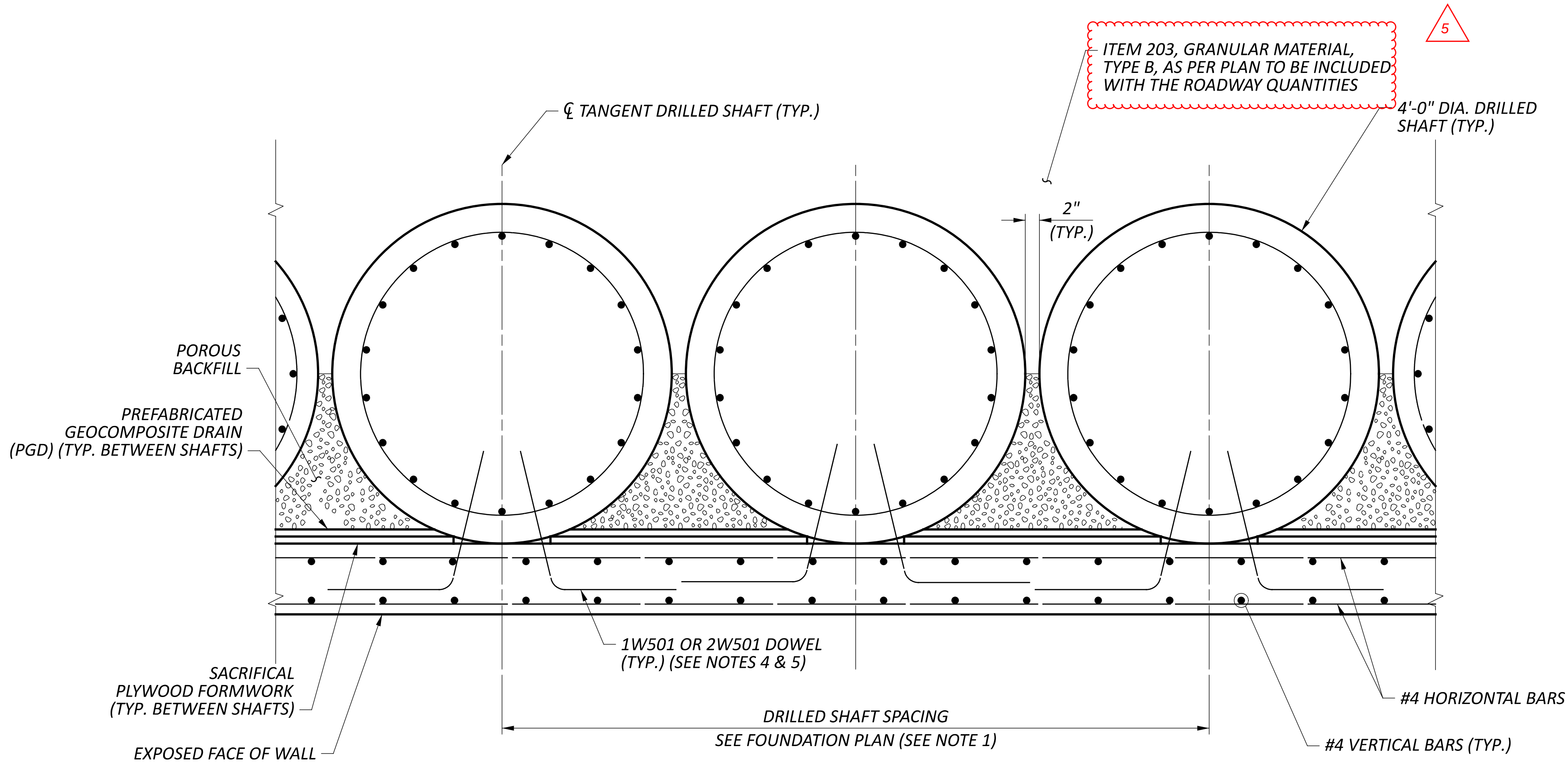
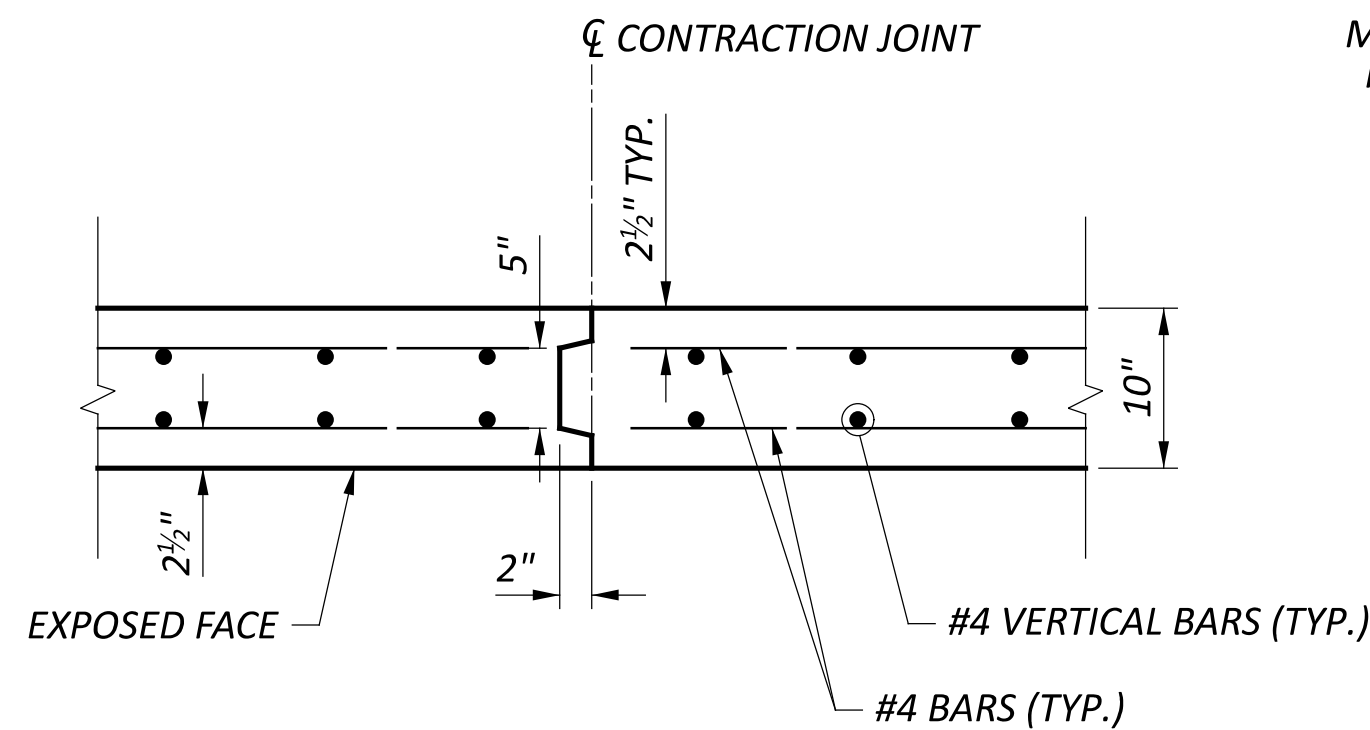
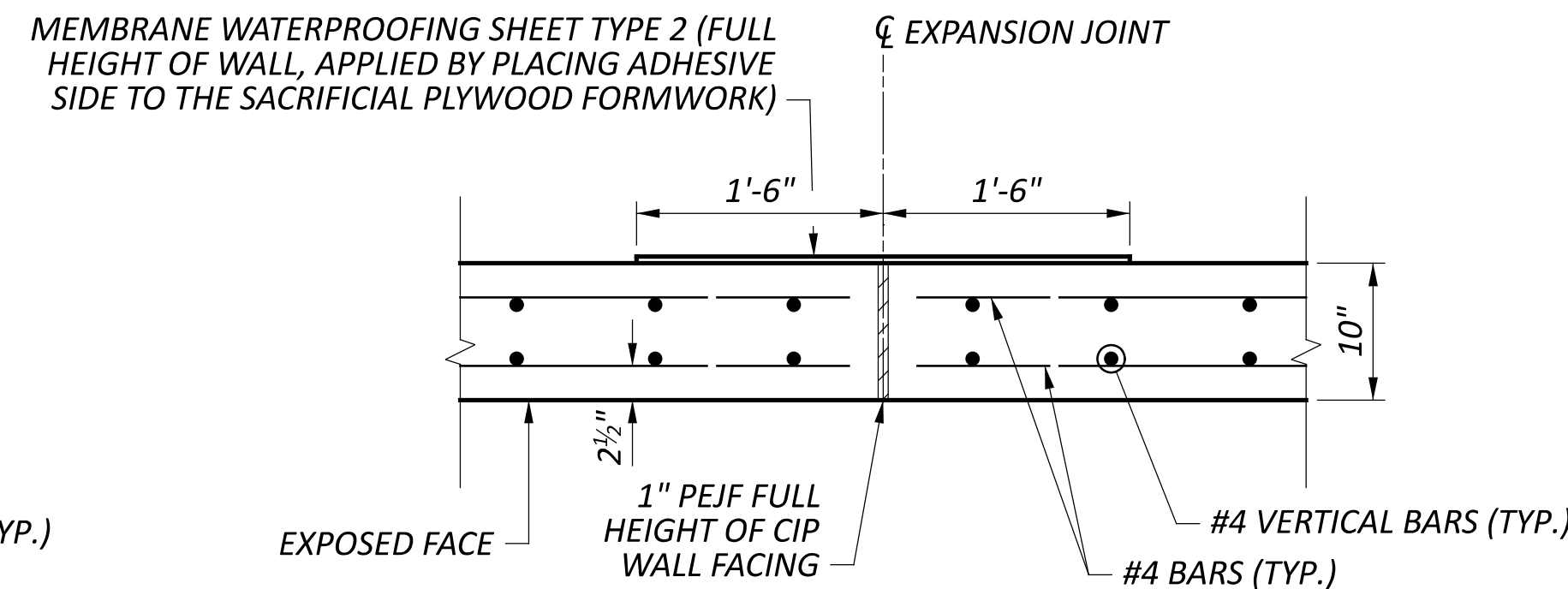
SFN
1802438

DESIGN AGENCY

600 SUPERIOR AVENUE
SUITE 1700
CLEVELAND, OH 44114
216.912.4240DESIGNER
GDSCHECKER
JTWREVIEWER
DWV 05/07/25PROJECT ID
112998SUBSET
13TOTAL
51SHEET
P.97TOTAL
151

**SECTION C-C**

(WALL 1 STA. RANGES: 0+25.00 - 0+37.24; 2+62.07 - 2+71.50)
(WALL 2 STA. RANGES: 0+81.00 - 0+88.45; 2+54.95 - 2+65.50)

**TYPICAL TANGENT DRILLED SHAFT WALL PLAN****TYPICAL CONTRACTION JOINT DETAIL****TYPICAL EXPANSION JOINT DETAIL****NOTES:**

- FOR FOUNDATION PLAN SEE SHEETS 8 THRU 10 OF 51.
- FOR LOCATION OF SECTION C-C, DRAINAGE LAYOUT, AND WALL PLAN AND ELEVATION, SEE SHEET 11 OF 51 THRU 12 OF 51.
- FOR ADDITIONAL DRILLED SHAFT DETAILS, SEE GENERAL NOTES ON SHEET 3 OF 51.
- DOWELS SHALL BE SPACED @ 12" MAXIMUM C/C VERTICALLY AND OFFSET 6" BELOW THE TOP OF THE SHAFT AND 6" ABOVE THE BOTTOM OF THE CIP WALL FACING. A 12.5" MIN. EMBEDMENT IS REQUIRED. USE A PACHOMETER OR OTHER METHODS TO LOCATE AND AVOID DRILLED SHAFT REINFORCING. DOWELS SHALL BE GALVANIZED STEEL REINFORCEMENT PER C&MS 509. FOR ADDITIONAL DOWEL INFORMATION, SEE GENERAL NOTES, SHEET 2 OF 51.
- FOR WALL INFORMATION TABLE, INCLUDING THE NUMBER OF DOWELS PER SHAFT, SEE SHEET 15 OF 51.
- FOR ADDITIONAL TIED CONCRETE BLOCK MAT INFORMATION, SEE DRAINAGE DETAILS.