

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. REPLACE OR RESURFACE EXISTING SHOULDER WITH TEMPORARY PAVEMENT IN IDENTIFIED LOCATIONS BETWEEN WEST END OF THE PROJECT AND WEST OF WEST BLVD USING LANE CLOSURES ADJACENT TO THE SHOULDER BEING REPLACED OR RESURFACED
- 2. FOUR CROSSOVERS, FIRST WEST OF LAKEVIEW AVE, SECOND WEST OF WOOSTER RD, THIRD WEST OF ALGER RD, AND FOURTH EAST OF W 85TH ST
- 3. TEMPORARY PAVEMENT ON THE OUTSIDE OF RAMP HA

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 REPLACED 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 WOOSTER RD 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 WOOSTER RD 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 WOOSTER RD 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 WOOSTER RD AND WEST OF W 85TH ST UP TO INTERMEDIATE COURSE
- 2. INSIDE PORTION OF RAMP HB

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

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

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			202	35100	9,654	FT	PIPE REMOVED, 24" AND UNDER	
											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			202	58000	37	EACH	MANHOLE REMOVED	
											101			202	58100	101	EACH	CATCH BASIN REMOVED	
											150			202	58200	150	EACH	INLET REMOVED	
											4,248			SPECIAL	20270000	4,248	FT	FILL AND PLUG EXISTING CONDUIT, 15"	P.0048
											578			SPECIAL	20270000	578	FT	FILL AND PLUG EXISTING CONDUIT, 18"	P.0048
											654			SPECIAL	20270000	654	FT	FILL AND PLUG EXISTING CONDUIT, 21"	P.0048
											804			SPECIAL	20270000	804	FT	FILL AND PLUG EXISTING CONDUIT, 24"	P.0048
											247			SPECIAL	20270000	247	FT	FILL AND PLUG EXISTING CONDUIT, 30"	P.0048
											575			SPECIAL	20270000	575	FT	FILL AND PLUG EXISTING CONDUIT, 36"	P.0048
											670			SPECIAL	20270000	670	FT	FILL AND PLUG EXISTING CONDUIT, 42"	P.0048
											773			SPECIAL	20270000	773	FT	FILL AND PLUG EXISTING CONDUIT, 48"	P.0048
											2,021			SPECIAL	20270000	2,021	FT	FILL AND PLUG EXISTING CONDUIT, 54"	P.0048
											1,806			SPECIAL	20270000	1,806	FT	FILL AND PLUG EXISTING CONDUIT, 60"	P.0048
											145			SPECIAL	20270110	645	FT	PIPE CLEANOUT, 24" AND UNDER	P.0047
											500			SPECIAL	20270120	690	FT	PIPE CLEANOUT, 27" TO 48"	P.0047
											500			SPECIAL	20270130	500	FT	PIPE CLEANOUT OVER 48"	P.0047
											40,911			202	75000	40,911	FT	FENCE REMOVED	
											LS			202	98000	LS		REMOVAL MISC.:TRAFFIC MONITORING EQUIPMENT	P.1268
											262,875			203	10000	262,875	CY	EXCAVATION	
											7,422			203	20000	7,422	CY	EMBANKMENT	
											24			203	98600	24	EACH	ROADWAY, MISC.:TEST HOLE	P.0046
											3,567			204	13000	3,567	CY	EXCAVATION OF SUBGRADE	
											35,190			204	13001	35,190	CY	EXCAVATION OF SUBGRADE, AS PER PLAN	P.0046
											71			204	45000	71	HOUR	PROOF ROLLING	
											5,522			206	10500	5,522	TON	CEMENT	
											210,895			206	11000	210,895	SY	CURING COAT	
											178,010			206	15010	178,010	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	
											32,498			206	15020	32,498	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
											LS			206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
											0.25			209	15051	0.25	MILE	RESHAPING UNDER GUARDRAIL, AS PER PLAN	P.0049
											20,246			606	15051	20,246	FT	GUARDRAIL, TYPE MGS, AS PER PLAN	P.0046
											125			606	15151	125	FT	GUARDRAIL, TYPE MGS HALF POST SPACING, AS PER PLAN	P.0046
											62.5			606	15251	62.5	FT	GUARDRAIL, TYPE MGS QUARTER POST SPACING, AS PER PLAN	P.0046
											57			606	26150	57	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
											35			606	26550	35	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
											42			606	35002	42	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
											20			606	35102	20	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
											40,911			607	23000	40,911	FT	FENCE, TYPE CLT	
											40,911			607	70000	40,911	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.
10	47	48	63	335	338	341	346	347	371		01/IMS/04	02/IMS/13	03/IMS/13						
					3,444						3,444			608	10000	3,444	SF	ROADWAY CONT.	
					2,178						2,178			608	52000	2,178	SF	CONCRETE WALK	
					458						458			608	53020	458	SF	CURB RAMP	
				5,446							5,446			622	10101	5,446	FT	DETECTABLE WARNING	
				127							127			622	10121	127	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1, AS PER PLAN	P.0054
				3,353							3,353			622	10141	3,353	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN	P.0055
				978							978			622	10141	978	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1, AS PER PLAN	P.0054
				1,739							1,739			622	10160	978	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
														622	10161	1,739	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	P.0055
				23							23			622	25000	23	EACH	CONCRETE BARRIER END SECTION, TYPE D	
				1							1			622	25001	1	EACH	CONCRETE BARRIER END SECTION, TYPE D, AS PER PLAN	P.0046
				44							44			622	25006	44	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	
				3							3			622	25007	3	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN	P.0046
				1							1			622	25008	1	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C	
				30							30			622	25014	30	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1	
				1							1			622	25015	1	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN	P.0046
				27							27			622	25050	27	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
				2							2			622	25051	2	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN	P.0046
				30							30			622	90000	30	FT	BARRIER, MISC.: PORTABLE BARRIER REMOVED AND RESET	P.0046
20											20			623	38500	20	EACH	MONUMENT ASSEMBLY, TYPE C, TYPE C	
																		EROSION CONTROL	
				181							181			601	21000	181	SY	CONCRETE SLOPE PROTECTION	
		160					7.12				167.12			601	21050	167.12	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
	2										2			659	00100	2	EACH	SOIL ANALYSIS TEST	
	16,091							1,608			17,699			659	00300	17,699	CY	TOPSOIL	
						126,079					126,079			659	00510	126,079	SY	SEEDING AND MULCHING, CLASS 2	
						17,719					17,719			659	00520	17,719	SY	SEEDING AND MULCHING, CLASS 3A	
						11,685					11,685			659	00530	11,685	SY	SEEDING AND MULCHING, CLASS 3B	
	7,248										7,248			659	14000	7,248	SY	REPAIR SEEDING AND MULCHING	
	7,248										7,248			659	15000	7,248	SY	INTER-SEEDING	
	33										33			659	20000	33	TON	COMMERCIAL FERTILIZER	
	30										30			659	31000	30	ACRE	LIME	
	822										822			659	35000	822	MGAL	WATER	
	326										326			659	40000	326	MSF	MOWING	
								14,216			14,216			670	00500	14,216	SY	SLOPE EROSION PROTECTION	
								11,691			11,691			670	00720	11,691	SY	DITCH EROSION PROTECTION MAT, TYPE B	
	160										160			SPECIAL	69065000	160	TON	WORK INVOLVING NON-REGULATED MATERIALS	P.0047
	80										80			SPECIAL	69065010	80	TON	WORK INVOLVING SOLID WASTE	P.0047
	80										80			SPECIAL	69065016	80	TON	WORK INVOLVING PETROLEUM CONTAMINATED SOIL	P.0047
	50,000										50,000			SPECIAL	69065022	50,000	GAL	WORK INVOLVING NON-REGULATED WATER	P.0047
	50,000										50,000			SPECIAL	69065024	50,000	GAL	WORK INVOLVING REGULATED WATER	P.0047
								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	
								800,000			800,000			832	30000	800,000	EACH	EROSION CONTROL	
								444			444			836	10000	444	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
																		DRAINAGE	
							124,329				124,329			605	11110	124,329	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
		5,000									5,000			605	13300	5,000	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
							102,604				102,604			605	14021	102,604	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, AS PER PLAN	P.0048
								5,889			5,889			611	00510	5,889	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
								4			14			611	99710	14	EACH	PRECAST REINFORCED CONCRETE OUTLET	
								68			68			611	04400	68	FT	12" CONDUIT, TYPE B	
								68			68			611	04600	68	FT	12" CONDUIT, TYPE C	
								4,518			4,518			611	05900	4,518	FT	15" CONDUIT, TYPE B	
								741			741			611	05901	741	FT	15" CONDUIT, TYPE B, AS PER PLAN	P.0063

GENERAL SUMMARY

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0317 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						
		1,885			1,885			611	06100	1,885	FT	DRAINAGE CONT.	
200		73			273			611	06700	273	FT	15" CONDUIT, TYPE F	
		382			382			611	07400	382	FT	18" CONDUIT, TYPE B	
	247	40			247			611	07401	247	FT	18" CONDUIT, TYPE B, AS PER PLAN	P.0063
	245	40			40			611	07600	40	FT	18" CONDUIT, TYPE C	
	265	232			245			611	08901	245	FT	21" CONDUIT, TYPE B, AS PER PLAN	P.0063
		232			232			611	10400	232	FT	24" CONDUIT, TYPE B	
		1,265			265			611	10401	265	FT	24" CONDUIT, TYPE B, AS PER PLAN	P.0063
					1,265			611	10600	1,265	FT	24" CONDUIT, TYPE C	
		527			527			611	13600	527	FT	30" CONDUIT, TYPE C	
		58			58			611	16400	58	FT	36" CONDUIT, TYPE B	
		931			931			611	16600	931	FT	36" CONDUIT, TYPE C	
		247			247			611	19400	247	FT	42" CONDUIT, TYPE B	
		493			493			611	19600	493	FT	42" CONDUIT, TYPE C	
		2,845			2,845			611	22600	2,845	FT	54" CONDUIT, TYPE C	
		472			472			611	23800	472	FT	60" CONDUIT, TYPE B	
		3,737			3,737			611	96600	3,737	FT	CONDUIT, BORED OR JACKED, 15", TYPE B	
		1,232			1,232			611	96600	1,232	FT	CONDUIT, BORED OR JACKED, 18", TYPE B	
		1,387			1,387			611	96600	1,387	FT	CONDUIT, BORED OR JACKED, 24", TYPE B	
		114			114			611	96600	114	FT	CONDUIT, BORED OR JACKED, 30", TYPE B	
		92			92			611	96600	92	FT	CONDUIT, BORED OR JACKED, 36", TYPE B	
		143			143			611	96600	143	FT	CONDUIT, BORED OR JACKED, 42", TYPE B	
		102			102			611	96600	102	FT	CONDUIT, BORED OR JACKED, 48", TYPE B	
		88			88			611	96600	88	FT	CONDUIT, BORED OR JACKED, 54", TYPE B	
		529			529			611	96600	529	FT	CONDUIT, BORED OR JACKED, 60", TYPE B	
		196			196			611	96600	196	FT	CONDUIT, BORED OR JACKED, 66", TYPE B	
	74				74			611	96601	74	FT	CONDUIT, BORED OR JACKED, AS PER PLAN, 15", TYPE B	P.0063
	15				15			611	96601	15	FT	CONDUIT, BORED OR JACKED, AS PER PLAN, 18", TYPE B	P.0063
	110				110			611	96601	110	FT	CONDUIT, BORED OR JACKED, AS PER PLAN, 24", TYPE B	P.0063
		24			24			611	97400	24	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE B, ROCK CUT	P.0049
			26		26			611	97400	26	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	P.0049
		8,520			8,520			611	97400	8,520	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,933			1,933			611	97400	1,933	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	P.0049
		85			85			611	97400	85	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	P.0049
		1,739			1,739			611	97400	1,739	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,019			1,019			611	97400	1,019	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	P.0049
		501			501			611	97400	501	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	P.0049
		469			469			611	97400	469	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	P.0049
		76			76			611	97400	76	FT	CONDUIT, MISC.: 27" CONDUIT, TYPE C, ROCK CUT	P.0049
		6			6			611	97400	6	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,394			1,394			611	97400	1,394	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT	P.0049
		248			248			611	97400	248	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE B, ROCK CUT	P.0049
		332			332			611	97400	332	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE C, ROCK CUT	P.0049
		262			262			611	97400	262	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,180			1,180			611	97400	1,180	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT	P.0049
		2,467			2,467			611	97400	2,467	FT	CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	P.0049
		368			368			611	97400	368	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT	P.0049
		608			608			611	97400	608	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT	P.0049
		555			555			611	97400	555	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	P.0049
		2,085			2,085			611	97400	2,085	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE B, ROCK CUT	P.0049
		182			182			611	97400	182	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT	P.0049
		38			38			611	98150	38	EACH	CATCH BASIN, NO. 3	
		1			1			611	98151	1	EACH	CATCH BASIN, NO. 3, AS PER PLAN	P.0048
		15			15			611	98180	15	EACH	CATCH BASIN, NO. 3A	
		63			63			611	98300	63	EACH	CATCH BASIN, NO. 5	
		1			1			611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.0048
	1				1			611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN (2)	P.0063
		7			7			611	98370	7	EACH	CATCH BASIN, NO. 6	
	1				1			611	98371	1	EACH	CATCH BASIN, NO. 6, AS PER PLAN	P.0063
		1			1			611	98510	1	EACH	CATCH BASIN, NO. 2-3	
		1			1			611	98690	1	EACH	CATCH BASIN, MISC.: CITY OF CLEVELAND CB-1 CATCH BASIN	P.0048
		15			15			611	98800	15	EACH	INLET, NO. 3B	
		7			7			611	98810	7	EACH	INLET, NO. 3C	
		7			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
			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
													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.
1457	1485	1490	1493	1499		01/IMS/04	02/IMS/13	03/IMS/13						
STRUCTURE OVER 20 FOOT SPAN (CUY-00090-09.910 R) CONT.														
664						664	664		848	10201	664	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN 3 3/4" INCH THICK	P.1350
664						664	664		848	20000	664	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
3						3	3		848	30200	3	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
6						6	6		848	50000	6	SY	HAND CHIPPING	
LS						LS	LS		848	50100	LS		TEST SLAB	
664						664	664		848	50320	664	SY	EXISTING CONCRETE OVERLAY REMOVED, 3 1/2" NOMINAL THICKNESS	
58						58	58		848	50340	58	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
STRUCTURE OVER 20 FOOT SPAN (CUY-00090-10.620)														
	8						8		503	21100	8	CY	UNCLASSIFIED EXCAVATION	
	162						162		512	10100	162	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
	131						131		SPECIAL	51271500	131	SY	URETHANE TOP COAT SEALER	P.1349
	145						145		513	21501	145	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN	P.1349
	LS						LS		514	27800	LS		FIELD PAINTING, MISC.: COATING SYSTEM REPAIR	P.1349
	1,172						1,172		SPECIAL	51900100	1,172	SF	COMPOSITE FIBER WRAP SYSTEM	P.1350
	1,868						1,868		519	11101	1,868	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350
STRUCTURE OVER 20 FOOT SPAN (CUY-00090-10.820)														
		1					1		503	21100	1	CY	UNCLASSIFIED EXCAVATION	
		37					37		SPECIAL	51271500	37	SY	URETHANE TOP COAT SEALER	P.1349
		329					329		SPECIAL	51900100	329	SF	COMPOSITE FIBER WRAP SYSTEM	P.1350
		141					141		519	11101	141	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350
STRUCTURE OVER 20 FOOT SPAN (CUY-00090-10.940)														
			12				12		503	21100	12	CY	UNCLASSIFIED EXCAVATION	
			16				16		512	10100	16	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
			60				60		SPECIAL	51271500	60	SY	URETHANE TOP COAT SEALER	P.1349
			714				714		513	10200	714	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF	
			1,460				1,460		513	21501	1,460	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN	P.1349
			LS				LS		514	27800	LS		FIELD PAINTING, MISC.: COATING SYSTEM REPAIR	P.1349
			535				535		SPECIAL	51900100	535	SF	COMPOSITE FIBER WRAP SYSTEM	P.1350
			264				264		519	11101	264	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350
			7,161				7,161		SPECIAL	53000600	7,161	SF	STRUCTURES TIMBER SUBDECKING	P.1350
STRUCTURE OVER 20 FOOT SPAN (CUY-00090-11.100)														
				13			13		503	21100	13	CY	UNCLASSIFIED EXCAVATION	
				161			161		512	10100	161	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
				30			30		512	10600	30	FT	CONCRETE REPAIR BY EPOXY INJECTION	
				90			90		SPECIAL	51271500	90	SY	URETHANE TOP COAT SEALER	P.1349
				805			805		SPECIAL	51900100	805	SF	COMPOSITE FIBER WRAP SYSTEM	P.1350
				1,924			1,924		519	11101	1,924	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.1350

GENERAL SUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
 DESIGNER
 BER
 REVIEWER
 VDK 08/09/23
 PROJECT ID
 76779
 SHEET TOTAL
 P.0327A P.1587

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	
											34		611	07600	40	FT	18" CONDUIT, TYPE C	
				194									611	10400	232	FT	24" CONDUIT, TYPE B	
													611	10600	1,265	FT	24" CONDUIT, TYPE C	
			332										611	13600	527	FT	30" CONDUIT, TYPE C	
													611	16400	58	FT	36" CONDUIT, TYPE B	
			58										611	16600	931	FT	36" CONDUIT, TYPE C	
			923										611	19400	247	FT	42" CONDUIT, TYPE B	
			247															
													611	19600	493	FT	42" CONDUIT, TYPE C	
			493										611	22600	2,845	FT	54" CONDUIT, TYPE C	
								640	2205				611	23800	472	FT	60" CONDUIT, TYPE B	
			472										611	96600	3,737	FT	CONDUIT, BORED OR JACKED, 15", TYPE B	
			143	382	652	297		307	1112	512	332		611	96600	1,232	FT	CONDUIT, BORED OR JACKED, 18", TYPE B	
			126	302	124		417	136	127				611	96600		FT		
													611	96600	1,387	FT	CONDUIT, BORED OR JACKED, 24", TYPE B	
			235	74	138	168	181			206	385		611	96600	114	FT	CONDUIT, BORED OR JACKED, 30", TYPE B	
											114		611	96600	92	FT	CONDUIT, BORED OR JACKED, 36", TYPE B	
													611	96600	92	FT	CONDUIT, BORED OR JACKED, 36", TYPE B	
													611	96600	143	FT	CONDUIT, BORED OR JACKED, 42", TYPE B	
													611	96600	102	FT	CONDUIT, BORED OR JACKED, 48", 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	88	FT	CONDUIT, BORED OR JACKED, 54", TYPE B	
				529									611	96600	529	FT	CONDUIT, BORED OR JACKED, 60", TYPE B	
				196									611	96600	196	FT	CONDUIT, BORED OR JACKED, 66", TYPE B	
													611	97400	24	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE B, ROCK CUT	P.0047
						24							611	97400	24	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE B, ROCK CUT	P.0047

DRAINAGE SUB-SUMMARY

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

ESTIMATED QUANTITIES

Sheet 351	Sheet 352	Sheet 353	Sheet 354	Sheet 355	Sheet 356	Sheet 357	Sheet 358	Sheet 359	Sheet 370	ITEM	EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
			6	20						611	97400	26	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	P.0047
	45	825	2663	3382	350	276	965	59		611	97400	8,520	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	P.0047
		221	36	328	469	13	773	48		611	97400	1,933	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	P.0047
		28		57						611	97400	85	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	P.0047
		94	424	1058	163					611	97400	1,739	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	P.0047
	16	566		61	376					611	97400	1,019	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	P.0047
	6	20	15	190			270			611	97400	501	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	P.0047
	252	186		31						611	97400	469	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	P.0047
	76									611	97400	76	FT	CONDUIT, MISC.: 27" CONDUIT, TYPE C, ROCK CUT	P.0047
			6							611	97400	6	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT	P.0047
		512			882					611	97400	1,394	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT	P.0047
			248		332					611	97400	248	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE B, ROCK CUT	P.0047
					56					611	97400	332	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE C, ROCK CUT	P.0047
		196			803					611	97400	262	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT	P.0047
		377								611	97400	1,180	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT	P.0047
	2115	352								611	97400	2,467	FT	CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	P.0047
	368									611	97400	368	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT	P.0047
					289	319				611	97400	608	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT	P.0047
	546					9				611	97400	555	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	P.0047
	2085									611	97400	2,085	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE B, ROCK CUT	P.0047
	182									611	97400	182	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT	P.0047
5	6	6	3	4	2	4	6	2		611	98150	38	EACH	CATCH BASIN, NO. 3	
								1		611	98151	1	EACH	CATCH BASIN, NO. 3, AS PER PLAN	P.0048
4	2	2	2	3	1		1			611	98180	15	EACH	CATCH BASIN, NO. 3A	
10	10	11	4	4	4	5	10	5		611	98300	63	EACH	CATCH BASIN, NO. 5	
					1					611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.0048
					1	2	2	1		611	98370	7	EACH	CATCH BASIN, NO. 6	
					1					611	98510	1	EACH	CATCH BASIN, NO. 2-3	
								1		611	98690	1	EACH	CATCH BASIN, MISC.: CITY OF CLEVELAND CB-1 CATCH BASIN	P.0048
5	4	3	1	2						611	98800	15	EACH	INLET, NO. 3B	
		3	4							611	98810	7	EACH	INLET, NO. 3C	
		2	1		1	1	2			611	98820	7	EACH	INLET, NO. 3D	
1	4	20	15	1	2	4	2			611	98840	49	EACH	INLET, NO. 2-A-6	
2	2	7	9	2	6	4	3			611	98850	35	EACH	INLET, NO. 2-A-8	
1	1	1	1	1	10	7	2			611	98860	24	EACH	INLET, NO. 2-A-10	
	1			1	4	1	2	3		611	98870	12	EACH	INLET, NO. 2-A-12	
			1	4	1	1	1	2		611	98880	9	EACH	INLET, NO. 2-A-14	
				1						611	98890	1	EACH	INLET, NO. 2-A-16	
		1		3	24	15	5	1		611	99000	1	EACH	INLET, NO. 2-A-18	
9	6	9	1	3	24	15	5	1		611	99574	73	EACH	MANHOLE, NO. 3	
										611	99575	33	EACH	MANHOLE, NO. 3, AS PER PLAN	P.0048
9	20	3			1		1			611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN (2)	P.0048
	1									633	99690	1	EACH	MANHOLE, MISC.: MH-3 MODIFIED	P.0048
									1608	659	00300	1,608	CY	TOPSOIL	
									14216	670	00500	14,216	SY	SLOPE EROSION PROTECTION	
									11691	670	00720	11,691	SY	DITCH EROSION PROTECTION MAT, TYPE B	
									444	836	10000	444	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	

DRAINAGE SUB-SUMMARY

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0347 P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	202	202	202	202	202	202	202	202	202	202	202	202							
			PIPE REMOVED, 24" AND UNDER	PIPE REMOVED, OVER 24"		MANHOLE REMOVED	CATCH BASIN REMOVED	INLET REMOVED	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 15"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 18"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 21"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 24"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 36"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 42"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 54"	FT	FT	EACH	EACH	EACH	FT	FT	FT	FT
			FROM	TO		FT	FT	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
1054	DR-51	IR 90	608+42.25	611+74.68	LT																			
1054	DR-52	IR 90	610+20.73	611+74.68	LT/RT	167			3	1	209													323
1054	DR-53	IR 90	611+74.68	612+89.67	LT	114			1	1														
1054	DR-54	IR 90	611+74.68	613+41.30	LT		166	1																
1054	DR-55	IR 90	613+41.30	616+69.15	LT			1																320
1054	DR-56	IR 90	616+69.15	617+02.50	LT/RT	116			4	1			87											
1054	DR-57	IR 90	616+20.41	617+25.11	LT	103				2														
1054	DR-58	IR 90	616+50.00	617+48.61	C/L	99				2														
1054	DR-59	IR 90	616+69.15	616+99.14	LT		227	1																
1055	DR-60	IR 90	616+99.12	616+99.14	LT/RT					1	88													
1055	DR-61	IR 90	616+99.14	620+61.54	LT		362			1														
1055	DR-62	IR 90	620+61.54	621+57.47	LT		96	1																
1055	DR-63	IR 90	619+01.66	621+58.00	RT	270			2	1														
1055	DR-64	IR 90	621+58.00	626+51.39	RT	495				2														
1055	DR-65	IR 90	621+57.47	621+58.00	LT/RT	89	81	1		1														
1055	DR-66	IR 90	621+57.47	624+71.90	LT		314			1														
1055	DR-67	IR 90	624+71.90	627+99.08	LT		327			1														
1055	DR-68	IR 90	627+99.08	629+54.08	LT		155			1														
1056	DR-69	IR 90	629+46.38	629+54.08	LT/RT	73			1	3	37	94												
1056	DR-70	IR 90	629+50.94	630+02.25	RT	52				1														
1056	DR-71	IR 90	629+54.08	631+24.97	LT		171	1																
1056	DR-72	IR 90	631+24.97	634+49.92	LT	6	325			1														
1056	DR-73	IR 90	634+47.10	634+49.92	LT	7				1														
1056	DR-74	IR 90	634+49.92	634+75.00	LT			1														33		
1056	DR-75	IR 90	634+71.12	634+75.00	LT/RT	197			1	1														
1056	DR-76	IR 90	634+71.70	637+51.73	RT	282			1															
1056	DR-77	IR 90	634+75.00	636+57.89	LT		183	1																
1056	DR-78	IR 90	636+57.89	639+21.41	LT		264			1														
1056	DR-79	IR 90	639+21.41	639+25.26	LT/RT	89			1	3			80											
1056	DR-80	IR 90	639+21.41	642+75.04	LT		354			1														
1057	DR-81	IR 90	642+75.04	645+99.96	LT		325			1														
1057	DR-82	IR 90	645+99.96	649+23.52	LT	8	324			1														
1057	DR-83	IR 90	649+23.52	649+26.95	LT/RT	74			1	3	68		68											
1057	DR-84	IR 90	649+26.95	651+97.82	LT	6	275			1														
1057	DR-85	IR 90	651+97.82	653+23.61	LT/RT	154			1	1	126													
1058	DR-86	IR 90	651+97.82	654+97.09	LT					1														
1058	DR-87	IR 90	654+97.09	654+89.43	LT/RT	305			2	2														
1058	DR-88	IR 90	654+97.09	657+75.44	LT	290				1														
1058	DR-89	IR 90/RAMP W1A	657+75.44	658+83.39	LT	154			1	2														
1058	DR-90	IR 90	657+75.44	660+48.91	LT	274				1														
1058	DR-91	IR 90/RAMP W2A	660+48.91	661+50.50	LT/RT	246		2	4	5	80	68	68											
1058	DR-92	RAMP W1A	60+38.31	62+39.76	LT	201				2	48													
1059	DR-93	IR 90	666+49.65	666+69.10	LT/RT	43			1	3	187													
1059	DR-94	IR 90	668+99.49	669+21.41	LT/RT	83				3	140													
1059	DR-95	IR 90/RAMP 140-4	674+50.13	677+52.73	LT/RT	112	260		2	5	190													
1060	DR-96	IR 90	677+49.35	677+52.73	LT/RT	39			1	3	122													
1060	DR-97	IR 90	677+52.73	678+28.62	LT/RT		67	1														277		
1061	DR-98	IR 90	695+00.00	695+03.02	LT/RT	7			2		160													
1061	DR-99	IR 90	698+74.99	698+75.04	LT/RT	119			1	1														
1061	DR-100	IR 90	698+75.04	700+50.43	LT/RT	216				1														
TOTALS CARRIED TO SHEET 346						4490	4276	11	30	65	1455	162	235	68	300	310	643							

DRAINAGE REMOVAL ESTIMATED QUANTITIES

DESIGN AGENCY	STRUCTUREPOINT <small>AMERICAN</small> <small>INC.</small>
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0349 P.1587

CUY-90-6.69

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 4/18/2024 TIME: 5:24:16 AM USER: breder
 p:\structurepoint-pw\benley.com\structurepoint-pw-01\Documents\Projects\20200006276779\400-Engineering\Drawings\Sheets\76779_D0001.dgn

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202
			PIPE REMOVED, 24" UNDER	PIPE REMOVED, OVER 24"		MANHOLE REMOVED	CATCH BASIN REMOVED	INLET REMOVED	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 15"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 18"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 21"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 24"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 36"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 42"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 48"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 54"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 60"				
			FROM	TO		FT	FT	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
1062	DR-101	IR 90	700+50.43	703+99.51	RT	369				1											
1062	DR-102	IR 90	703+99.51	708+77.82	RT					1					498						
1062	DR-103	IR 90	708+75.34	708+77.82	LT/RT	52				3	70		70								
1062	DR-104	IR 90	708+77.82	711+02.81	RT		227			1											
1062	DR-105	IR 90	711+02.81	713+77.57	RT					1					275						
1063	DR-106	IR 90	713+77.57	716+54.97	RT		278			1											
1063	DR-107	IR 90	716+54.97	718+70.89	RT		216			1											
1063	DR-108	IR 90	718+70.89	718+74.55	LT/RT				1	3	79	51	79								
1063	DR-109	IR 90	718+70.89	720+28.01	RT		158			1											
1063	DR-110	IR 90	720+28.01	722+28.08	RT		200			1											
1063	DR-111	IR 90	722+28.08	25+23.63	RT		293			1											
1064	DR-112	RAMP 117-8	25+23.63	26+49.69	RT		125			1											
1064	DR-113	RAMP 117-8	26+49.69	27+24.33	RT	74			1												
1064	DR-114	RAMP 117-8	27+24.33	27+86.06	RT	62				1											
1064	DR-115	RAMP 117-8	26+49.69	727+98.22	LT/RT		196			1											
1064	DR-116	IR 90	726+96.12	727+98.22	LT/RT	102			2	4	175	68									
1064	DR-117	IR 90	727+98.22	729+40.39	RT					1					146						
1064	DR-118	IR 90/RAMP 117-7	729+40.39	26+77.81	LT/RT	68				2	268										
1064	DR-119	RAMP 117-8	32+93.45	33+61.74	LT	69			1												
1064	DR-120	IR 90	729+40.39	730+79.77	RT				1						141						
1064	DR-121	IR 90	730+41.48	731+64.96	RT				1	1	184										
1064	DR-122	IR 90	730+79.77	736+00.00	RT				1									521			
1064	DR-123	IR 90	732+38.25	735+91.68	LT	136		1	1	2	243										
1065	DR-124	IR 90	735+91.68	736+00.00	LT/RT	87			2	3			122	81							
1065	DR-125	RAMP 117-12	33+55.64	33+65.00	RT	10			1												
1065	DR-126	RAMP 117-12/IR 90	34+67.93	735+91.68	LT/RT	260			1	2	200										
1065	DR-127	IR 90	736+00.00	738+50.41	RT			1										252			
1065	DR-128	IR 90	738+50.41	740+55.53	RT		206			1											
1065	DR-129	IR 90	739+89.27	741+66.51	RT	116			1	1	73										
1065	DR-130	IR 90	740+55.53	744+25.33	RT		370														
1065	DR-131	RAMP 117-12/IR 90	39+52.65	744+25.33	LT/RT	167			3	4	240	55	117	90							
1065	DR-132	IR 90	744+25.33	749+62.02	RT		537	1													
1066	DR-133	IR 90	749+62.02	751+57.00	LT/RT		238			1											
1066	DR-134	IR 90	749+48.51	751+57.00	LT	222				1											
1066	DR-135	IR 90	751+57.00	757+98.00	LT			4										640			
1066	DR-136	IR 90	754+00.38	754+72.84	LT/RT	38			2	1	120										
1066	DR-137	IR 90	754+75.01	755+76.34	LT/RT	111			3	1	129										
1066	DR-138	IR 90	755+49.97	756+75.70	LT/RT	259			2	1											
1066	DR-139	IR 90	757+74.99	757+98.00	LT	78			1												
1066	DR-140	IR 90	757+98.00	759+93.76	LT		209	1													
1067	DR-141	IR 90	759+93.76	763+79.22	LT			1													
1067	DR-142	IR 90	763+79.22	764+00.00	LT/RT	28			3	2	203	27									375
1067	DR-143	IR 90	763+79.22	765+57.77	LT					1	169										
1067	DR-144	IR 90/RAMP W13	763+79.22	70+95.62	LT	57	668		2	4	30										
1067	DR-145	RAMP W14	68+75.42	69+57.26	RT					1	88										
1067	DR-146	RAMP W14	69+50.62	69+57.26	LT/RT	82			1												
TOTALS CARRIED TO SHEET 346						2447	3921	9	31	52	2271	201	388	669	275	287	773	640	375		

DRAINAGE REMOVAL ESTIMATED QUANTITIES

DESIGN AGENCY	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0350 P.1587

CUY-90-6.69

MODEL: Sheet 1 PAPER: 34x22 (in.) DATE: 4/19/2024 TIME: 10:32:23 AM USER: isima
 p:\structurepoint-pw-bentley.com\structurepoint-pw-01\Documents\Projects\20200006276779\400-Engineering\Drainage\Sheets\76779_DO002.dgn

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	
			FROM	TO		12" CONDUIT, TYPE B	15" CONDUIT, TYPE B	15" CONDUIT, TYPE C	24" CONDUIT, TYPE C	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	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												1									
OUTFALL AH																											
1048/1068	D3A	HILLIARD BLVD	82+10.38	82+13.00	LT	7																			1		
1048/1068	D4	HILLIARD BLVD	82+13.00	82+32.00	LT	19												1									
OUTFALL B																											
1047/1070	D88	IR 90	530+69.00	530+69.00	LT/RT												73			1							
1047/1070	D83	IR 90	530+69.00	530+69.00	RT												67						1				
1047/1070	D79	IR 90	530+69.00	533+50.00	RT				311										1								
1048/1070	D75	IR 90	533+50.00	535+20.00	RT								271												1		
1048/1070	D71	IR 90	535+20.00	37+53.40	RT								170												1		
1048/1070	D62	RAMP HA	37+53.40	37+60.00	LT/RT								228												1		
1048/1070	D57	RAMP HA	37+60.00	40+16.00	RT								58												1		
1048/1071	D50	RAMP HA	40+16.00	542+89.00	RT								254												1		
1048/1071	D21	IR 90	542+89.00	545+10.00	RT																				1		
1049/1072	D19	IR 90	545+10.00	545+54.00	RT										72										1		
1049/1072	D18	IR 90	545+54.00	547+00.00	RT																				1		
1049/1072	D17	IR 90	547+00.00	547+09.00	RT										146										1		
1049/1072	D14	IR 90	547+09.00	547+65.00	RT										29										1		
1049/1072	D11	IR 90	547+65.00	551+91.86	RT											56									1		
1047/1075	D86	IR 90	529+87.00	530+69.00	RT			82								416							1			1	
1047/1075	D85	IR 90	530+69.00	531+51.00	RT			82															1			1	
1048/1075	D77	RAMP HB	32+51.00	533+50.00	LT					86														1			
1048/1075	D78	IR 90	533+50.00	533+50.00	RT					16														1			
1048/1075	D67	IR 90	535+40.00	535+20.00	RT					27														1			
1048/1075	D72	RAMP HA	35+43.00	535+20.00	LT					15														1			
1048/1075	D73	RAMP HA	35+43.00	35+70.00	LT/RT			82																1			
1048/1075	D74	RAMP HA	35+70.00	35+75.00	RT																			1			
1048/1075	D66	IR 90	536+65.00	537+48.00	RT					83														1			
1048/1076	D69	IR 90	537+47.00	537+50.00	LT			9																			
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												64			1						1	
1048/1076	D54	RAMP HA	39+68.00	40+16.00	RT																						
1048/1076	D53	RAMP HA	40+16.00	540+58.00	RT					46															1		
1048/1076	D55	RAMP HA	40+16.00	40+16.00	RT					40															1		
1048/1076	D51	RAMP HA	40+16.00	40+16.00	RT					10										1							
1048/1076	D27	IR 90	542+00.00	542+75.00	RT																				1		
1048/1077	D49	RAMP HB	38+16.00	39+18.00	RT					75																	
1048/1077	D48	RAMP HB	39+18.00	39+85.00	RT					98																	
1048/1077	D47	RAMP HB	39+85.00	42+81.00	RT					66																	
1048/1077	D28	RAMP HB	42+81.00	542+75.00	RT					298																1	
1048/1077	D26	IR 90	542+75.00	542+91.00	RT																					1	
1048/1077	D25	IR 90	542+91.00	542+89.00	RT																						
1048/1077	D22	IR 90	542+89.00	542+89.00	RT					8																	
1048/1077	D30	RAMP HB	42+73.50	42+73.50	LT	7				13																	
1048/1077	D29	RAMP HB	42+73.50	543+25.25	LT			51																			
1048/1077	D32	IR 90	543+25.25	543+75.00	LT			50																		1	
1048/1077	D33	IR 90	543+75.00	543+75.25	LT	7																				1	
1048/1078	D31	IR 90	543+25.25	42+81.00	LT																					1	
TOTALS CARRIED TO SHEETS 346 & 347						46	976	261	332	58	923	247	493	472	143	126	235	5	4	10	1	2	1	5	9	9	

DRAINAGE ESTIMATED QUANTITIES

DESIGN AGENCY

AMERICAN
STRUCTUREPOINT
INC.

DESIGNER

BER

REVIEWER

VDK 08/09/23

PROJECT ID

76779

SHEET TOTAL

P.0351 | P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	611																									
			FROM	TO		CONDUIT, BORED OR JACKED, 15", TYPE B	CONDUIT, BORED OR JACKED, 24", TYPE B	CONDUIT, BORED OR JACKED, 48", TYPE B	CONDUIT, MISC.: 12" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 36" CONDUIT, TYPE B, ROCK CUT	CATCH BASIN, NO. 3	CATCH BASIN, NO. 3A	CATCH BASIN, NO. 5	INLET, NO. 3B	INLET, NO. 3C	INLET, NO. 3D	INLET, NO. 2-A-6	INLET, NO. 2-A-8	INLET, NO. 2-A-10	INLET, NO. 2-A-14	MANHOLE, NO. 3				
OUTFALL D CONTINUED																															
1053/1097	D178	IR 90	602+26.00	603+01.00	LT																										
1053/1097	D180	IR 90	603+01.00	603+78.00	LT																										
1053/1097	D181	IR 90	603+78.00	605+01.00	LT																										
1053/1097	D182	IR 90	605+01.00	604+99.00	LT																										
1054/1098	D187	RAMP ME	9+34.00	608+58.00	LT	61																									
1054/1098	D191	IR 90	610+95.00	912+00.00	LT																										
1054/1098	D189	IR 90	611+75.00	611+75.00	RT																										
1054/1098	D190	IR 90	611+75.00	612+00.00	LT/RT	85																									
1054/1098	D192	IR 90	612+00.00	612+45.00	LT																										
1054/1098	D193	IR 90	612+45.00	612+67.00	LT																										
1054/1098	D194	IR 90	612+67.00	631+96.00	LT																										
1055/1099	D206	IR 90	616+25.00	616+36.00	LT																										
1055/1099	D204	IR 90	616+36.00	616+36.00	LT/RT	85																									
1055/1099	D201	IR 90	616+36.00	616+36.00	RT																										
1055/1099	D197	IR 90	616+36.00	616+36.00	RT	66																									
1055/1099	D205	IR 90	615+30.00	615+56.00	LT																										
1055/1099	D207	IR 90	617+28.00	617+10.00	LT																										
1055/1099	D208	IR 90	617+10.00	616+00.00	LT																										
1055/1099	D209	IR 90	616+00.00	617+01.00	LT																										
1055/1099	D202	IR 90	615+56.00	615+50.00	RT																										
1055/1100	D203	IR 90	617+25.00	617+28.00	RT																										
1055/1099	D198	IR 90	615+70.00	615+50.00	RT																										
1055/1100	D199	IR 90	616+36.00	617+03.00	RT																										
1055/1101	D213	IR 90	618+13.00	618+15.00	LT																										
1055/1101	D214	IR 90	618+15.00	619+37.00	LT																										
1055/1101	D215	IR 90	619+37.00	620+63.00	LT																										
1055/1102	D241	IR 90	628+01.00	626+50.00	LT																										
1055/1102	D240	IR 90	626+50.00	624+75.00	LT																										
1055/1102	D238	IR 90	624+75.00	623+00.00	LT																										
1055/1102	D237	IR 90	623+00.00	621+59.00	LT																										
1055/1102	D234	IR 90	621+59.00	621+56.00	LT/RT																										
1055/1102	D220	IR 90	621+56.00	621+46.00	RT																										
1055/1102	D225	IR 90	621+46.00	622+75.00	RT																										
1055/1103	D226	IR 90	622+75.00	624+25.00	RT																										
1055/1103	D227	IR 90	624+25.00	625+50.00	RT																										
1055/1103	D228	IR 90	625+50.00	626+50.00	RT																										
1055/1103	D229	IR 90	626+50.00	627+50.00	RT																										
1055/1103	D230	IR 90	627+50.00	628+50.00	RT																										
1055/1103	D231	IR 90	628+50.00	629+36.00	RT																										
1055/1104	D223	IR 90	619+01.00	619+35.00	RT																										
1055/1104	D222	IR 90	619+35.00	620+72.00	RT																										
1055/1104	D221	IR 90	620+72.00	621+46.00	RT																										
1055/1104	D233	IR 90	621+86.00	621+56.00	RT																										
1055/1105	D273	IR 90	639+25.00	638+00.00	LT																										
1055/1105	D272	IR 90	638+00.00	636+50.00	LT																										
TOTALS CARRIED TO SHEETS 346 & 347						297	168	102	24	6	2663	36	424	15	6	248	3	2	4	1	4	1	20	7	1	1	1				

DRAINAGE ESTIMATED QUANTITIES

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	BER
REVIEWER	VDK 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.0354 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		CONDUIT, BORED OR JACKED, 18", TYPE B	CONDUIT, BORED OR JACKED, 24", TYPE B	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	CATCH BASIN, NO. 3	CATCH BASIN, NO. 3A	CATCH BASIN, NO. 5	CATCH BASIN, NO. 6	CATCH BASIN, NO. 2-3	INLET, NO. 3B	INLET, NO. 2-A-6	INLET, NO. 2-A-8	INLET, NO. 2-A-10	INLET, NO. 2-A-12	INLET, NO. 2-A-14	INLET, NO. 2-A-16	MANHOLE, NO. 3
			FT	FT		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
OUTFALL D CONTINUED																												
1056/1105	D271	IR 90	636+56.00	36+40.00	LT				35																			
1056/1105	D269	RAMP W1	36+40.00	634+85.00	LT				154																			
1056/1105	D268	IR 90	634+85.00	633+38.00	LT				149																			
1056/1105	D267	IR 90	633+38.00	632+05.00	LT																							
1056/1105	D266	IR 90	632+05.00	631+27.00	LT																							
1056/1105	D263	IR 90	631+27.00	629+50.00	LT			6																				
1056/1106	D262	IR 90	629+50.00	629+50.00	LT		91																					
1056/1106	D261	IR 90	629+50.00	629+58.00	LT/RT																							
1056/1106	D246	IR 90	629+58.00	629+59.00	RT	63																						
1056/1106	D250	IR 90	629+59.00	631+90.00	RT																							
1056/1106	D251	IR 90	631+90.00	33+80.00	RT																							
1056/1106	D252	IR 90 EB	33+80.00	34+70.00	RT																							
1056/1106	D254	IR 90	34+70.00	35+50.00	RT																							
1056/1106	D255	IR 90	35+50.00	37+12.00	RT																							
1056/1106	D257	IR 90	37+12.00	37+15.00	RT																							
1056/1107	D258	IR 90	37+15.00	39+55.00	RT																							
1056/1107	D249	RAMP W2	30+76.00	29+66.00	LT																							
1056/1107	D247	RAMP W2	29+66.00	629+59.00	LT																							
1056/1108	D253	RAMP W2	34+76.00	34+70.00	LT/RT																							
1056/1108	D256	IR 90 EB	37+52.75	37+12.00	RT																							
1056/1108	D277	IR 90	634+75.00	34+74.38	LT																							
1057/1109	D283	IR 90 EB	42+71.18	42+77.00	RT																							
1057/1109	D285	IR 90 WB	42+77.00	43+25.00	LT		90																					
1057/1109	D289	IR 90 WB	43+25.00	44+15.00	LT																							
1057/1109	D290	IR 90 WB	44+15.00	46+02.00	LT																							
1057/1109	D293	IR 90 WB	46+02.00	47+60.00	LT																							
1057/1109	D294	IR 90 WB	47+60.00	49+25.50	LT																							
1057/1109	D296	IR 90 WB	49+25.50	51+50.00	LT																							
1057/1110	D288	RAMP W1	41+40.00	41+40.00	LT																							
1057/1110	D287	IR 90 WB	41+40.00	42+37.00	LT																							
1057/1110	D286	IR 90 WB	42+37.00	43+25.00	LT																							
1057/1111	D301	IR 90 EB	44+58.00	44+55.00	LT/RT																							
1057/1111	D302	IR 90 EB	44+55.00	44+40.00	RT	106																						
1057/1111	D304	IR 90 EB	44+40.00	45+25.00	RT																							
1057/1111	D305	IR 90 EB	45+25.00	47+10.00	RT																							
1057/1111	D306	IR 90 EB	47+10.00	49+00.00	RT																							
1057/1111	D307	IR 90 EB	49+00.00	51+70.00	RT																							
1057/1112	D303	IR 90 EB	43+88.00	44+40.00	RT																							
1057/1112	D312	IR 90 EB	48+50.00	48+50.00	LT																							
1057/1112	D318	IR 90 EB	53+66.00	53+62.00	LT																							
1057/1112	D326	IR 90 WB	60+50.00	57+88.00	LT																							
1058/1113	D321	S MARGINAL RD	34+00.00	55+08.00	LT																							
1058/1113	D320	IR 90 EB	55+08.00	54+95.00	RT	158																						
1058/1113	D323	IR 90 WB	54+95.00	55+04.00	LT	90																						
1058/1113	D325	IR 90 WB	55+04.00	57+88.00	LT																							
1058/1113	D328	RAMP W1A	57+88.00	57+65.00	RT																							
1058/1113	D329	RAMP W1A	57+65.00	58+61.00	RT																							
1058/1113	D330	RAMP W1A	58+61.00	59+45.00	RT																							
1058/1113	D331	RAMP W1A	59+45.00	60+85.00	RT																							
1058/1114	D333	RAMP W1A	60+85.00	63+00.00	RT																							
TOTALS CARRIED TO SHEETS 346 & 347						417	181	20	3382	328	57	1058	61	190	31	4	3	4	1	1	2	15	9	1	1	4	1	3

DRAINAGE ESTIMATED QUANTITIES

DESIGN AGENCY
STRUCTUREPOINT
 INC.

DESIGNER
 BER

REVIEWER
 VDK 08/09/23

PROJECT ID
 76779

SHEET TOTAL
 P.0355 | P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	611																											
			FROM	TO		611																											
						15" CONDUIT, TYPE B	15" CONDUIT, TYPE C	18" CONDUIT, TYPE B	24" CONDUIT, TYPE B	24" CONDUIT, TYPE C	54" CONDUIT, TYPE C	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, 54", TYPE B	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT	CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	CATCH BASIN, NO. 3	CATCH BASIN, NO. 5	CATCH BASIN, NO. 6	INLET, NO. 3D	INLET, NO. 2-A-6	INLET, NO. 2-A-8	INLET, NO. 2-A-10	INLET, NO. 2-A-12	INLET, NO. 2-A-14	MANHOLE, NO. 3				
FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH					
OUTFALL M CONTINUED																																	
1065/1126	D825	IR 90	745+05.00	749+75.00	LT																								1				
1066/1127	D814	IR 90	749+75.00	751+75.00	LT																								1				
1066/1127	D811	IR 90	751+75.00	753+59.00	LT																								1				
1066/1127	D808	IR 90	753+59.00	754+69.00	LT														110										1				
1066/1127	D806	IR 90	754+69.00	755+63.00	LT																								1				
1066/1127	D800	IR 90	755+63.00	756+74.00	LT																								1				
1066/1127	D798	IR 90	756+74.00	758+05.00	LT																								1				
1066/1127	D795	IR 90	758+05.00	759+15.00	LT																								1				
1066/1128	D785	IR 90	759+15.00	763+00.00	LT																								1				
1067/1128	D779	IR 90	763+00.00	765+75.00	LT																								1				
1067/1128	D777	IR 90	765+75.00	766+00.00	LT																								1				
1067/1128	D775	IR 90	766+00.00	68+34.87	LT																								1				
1067/1129	D770	RAMP W13	68+34.87	70+50.00	RT																								1				
1067/1129	D755	RAMP W13	70+50.00	773+79.38	RT															209									1				
1061/1130	D935	IR 90	698+75.00	698+75.00	LT																												
1062/1130	D931	IR 90	701+03.00	701+10.00	RT																												
1062/1130	D933	IR 90	701+10.00	701+10.00	LT																								1				
1062/1130	D928	IR 90	703+90.00	903+95.00	RT																												
1062/1130	D927	IR 90	703+95.00	703+95.00	LT																												
1062/1130	D929	IR 90	703+95.00	703+95.00	LT																												
1062/1130	D925	IR 90	706+50.00	706+53.00	LT																												
1062/1131	D921	IR 90	709+24.00	709+28.00	RT																												
1062/1131	D922	IR 90	709+28.00	709+25.00	LT																												
1063/1131	D917	IR 90	713+64.00	713+64.00	LT																												
1063/1131	D918	IR 90	713+64.00	713+60.00	LT																												
1063/1131	D912	IR 90	718+46.25	718+50.00	LT																												
1063/1131	D910	IR 90	720+00.00	720+00.00	LT																												
1063/1132	D908	IR 90	714+00.00	715+50.00	RT																												
1063/1132	D907	IR 90	715+50.00	717+00.00	RT																												
1063/1132	D906	IR 90	717+00.00	719+70.00	RT																												
1063/1132	D905	IR 90	719+70.00	722+50.00	RT																												
1063/1132	D904	IR 90	722+50.00	722+40.00	RT																												
1063/1133	D903	IR 90	722+40.00	722+00.00	LT																												
1064/1134	D884	IR 90	724+50.00	725+75.00	LT																												
1064/1134	D883	IR 90	725+75.00	27+00.68	LT																												
1064/1134	D882	RAMP 117-5	27+00.68	27+53.00	LT																												
1064/1134	D878	RAMP 117-5	27+53.00	727+73.00	LT																												
1064/1134	D885	IR 90	727+73.00	727+68.00	RT																												
1064/1134	D886	RAMP 117-8	727+68.00	27+20.00	LT																												
1064/1134	D896	RAMP 117-8	27+20.00	27+20.00	RT																												
1064/1134	D893	RAMP 117-8	30+50.00	29+00.00	RT																												
1064/1134	D892	RAMP 117-8	29+00.00	28+94.00	RT																												
1064/1135	D888	RAMP 117-8	30+65.00	28+94.00	LT																												
1064/1135	D887	RAMP 117-8	28+94.00	27+20.00	LT																												
1064/1135	D898	RAMP 117-8	24+45.00	25+80.00	RT																												
1064/1135	D891	RAMP 117-8	25+80.00	26+70.00	RT																												
1064/1135	D897	RAMP 117-8	26+70.00	27+20.00	RT																												
1064/1135	D890	RAMP 117-8	27+20.00	27+70.00	RT																												
TOTALS CARRIED TO SHEETS 346 & 347						1534	28	180	38	17	2205	1112	127	206	88	276	13	319	9	4	5	2	1	2	6	10	1	1	15				

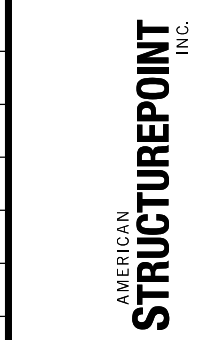
DRAINAGE ESTIMATED QUANTITIES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
 DESIGNER
 BER
 REVIEWER
 VDK 08/09/23
 PROJECT ID
 76779
 SHEET TOTAL
 P.0357 | P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	611																									
			FROM	TO		15" CONDUIT, TYPE B	15" CONDUIT, TYPE C	18" CONDUIT, TYPE B	CONDUIT, BORED OR JACKED, 15", TYPE B	CONDUIT, BORED OR JACKED, 24", TYPE B	CONDUIT, BORED OR JACKED, 30", TYPE B	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	CATCH BASIN, NO. 3	CATCH BASIN, NO. 3A	CATCH BASIN, NO. 5	CATCH BASIN, NO. 6	INLET, NO. 3D	INLET, NO. 2-A-6	INLET, NO. 2-A-8	INLET, NO. 2-A-10	INLET, NO. 2-A-12	INLET, NO. 2-A-14	MANHOLE, NO. 3	MANHOLE, NO. 3, AS PER PLAN					
						FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
OUTFALL M CONTINUED																															
1064/1136	D880	RAMP 117-5	29+00.00	28+03.00	LT																										
1064/1136	D879	RAMP 117-5	28+03.00	27+53.00	LT							95																			
1064/1136	D872	IR 90	730+86.00	730+22.00	RT							48																			
1064/1136	D873	IR 90	729+56.00	730+22.00	RT																										
1064/1136	D871	IR 90	730+22.00	730+34.00	RT																										
1064/1136	D867	IR 90	732+47.00	732+34.00	LT																										
1064/1136	D866	IR 90	732+34.00	732+39.00	LT																										
1065/1137	D863	RAMP 117-12	34+50.00	40+74.00	RT																										
1065/1137	D862	RAMP 117-11	40+74.00	38+85.00	LT																										
1065/1137	D860	RAMP 117-11	38+85.00	735+76.00	LT																										
1065/1137	D858	IR 90	735+76.00	735+76.00	LT																										
1065/1137	D857	IR 90	735+76.00	735+76.00	RT																										
1065/1137	D861	RAMP 117-12	36+86.00	38+85.00	LT																										
1065/1137	D859	IR 90	735+12.00	735+76.00	LT																										
1065/1138	D848	RAMP 117-9	34+90.00	36+60.00	RT																										
1065/1138	D847	RAMP 112-9	36+60.00	38+25.00	RT																										
1065/1138	D846	RAMP 112-9	38+25.00	36+98.00	RT																										
1065/1138	D845	RAMP 112-9	36+98.00	740+15.00	RT																										
1065/1138	D843	IR 90	740+15.00	741+57.00	RT																										
1065/1138	D841	IR 90	741+57.00	741+56.00	RT																										
1065/1138	D840	IR 90	741+56.00	741+50.00	LT																										
1065/1139	D853	IR 90	735+75.00	738+46.00	RT																										
1065/1139	D851	IR 90	738+46.00	739+54.00	RT																										
1065/1139	D850	IR 90	739+54.00	739+62.98	RT																										
1065/1139	D852	IR 90	738+98.00	738+46.00	RT																										
1065/1139	D842	IR 90	742+10.00	741+57.00	RT																										
1065/1140	D835	RAMP 117-12	39+10.00	41+00.00	LT																										
1065/1140	D834	RAMP 117-12	41+00.00	43+30.00	LT																										
1065/1140	D832	RAMP 117-12	43+30.00	743+59.00	LT																										
1065/1140	D830	IR 90	743+59.00	745+05.00	LT																										
1065/1140	D828	IR 90	745+05.00	745+05.00	LT																										
1065/1140	D826	IR 90	745+05.00	745+03.50	LT/RT																										
1065/1140	D829	IR 90	744+85.00	745+05.00	LT																										
1065/1141	D831	IR 90	742+46.00	743+59.00	LT																										
1065/1141	D819	IR 90	744+05.00	746+25.00	RT																										
1065/1141	D817	IR 90	746+25.00	748+40.00	RT																										
1066/1141	D816	IR 90	748+40.00	749+75.00	RT																										
1066/1142	D815	IR 90	749+75.00	749+75.00	RT																										
1066/1142	D821	IR 90	749+75.00	749+70.00	LT																										
1066/1142	D822	IR 90	749+70.00	748+50.00	LT																										
1066/1142	D822A	IR 90	748+50.00	747+25.00	LT																										
1066/1142	D823	IR 90	747+25.00	746+00.00	LT																										
1066/1143	D812	IR 90	751+75.00	751+75.00	LT/RT																										
1066/1143	D809	IR 90	753+59.00	753+59.00	LT/RT																										
1066/1143	D807	IR 90	754+75.00	754+69.00	LT/RT																										
TOTALS CARRIED TO SHEETS 346 & 347						940	595	202	512	385	114	965	773	270	6	1	10	2	2	4	4	7	2	1	5	1					

DRAINAGE ESTIMATED QUANTITIES

DESIGN AGENCY



DESIGNER

BER

REVIEWER

VDK 08/09/23

PROJECT ID

76779

SHEET TOTAL

P.0358 | P.1587

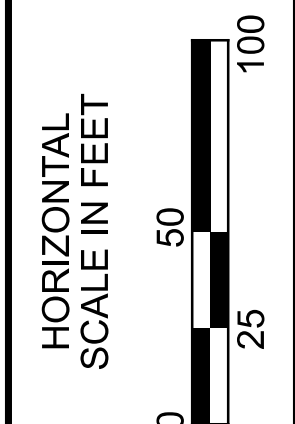
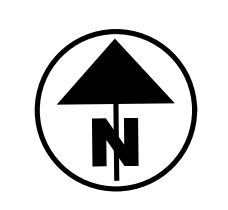
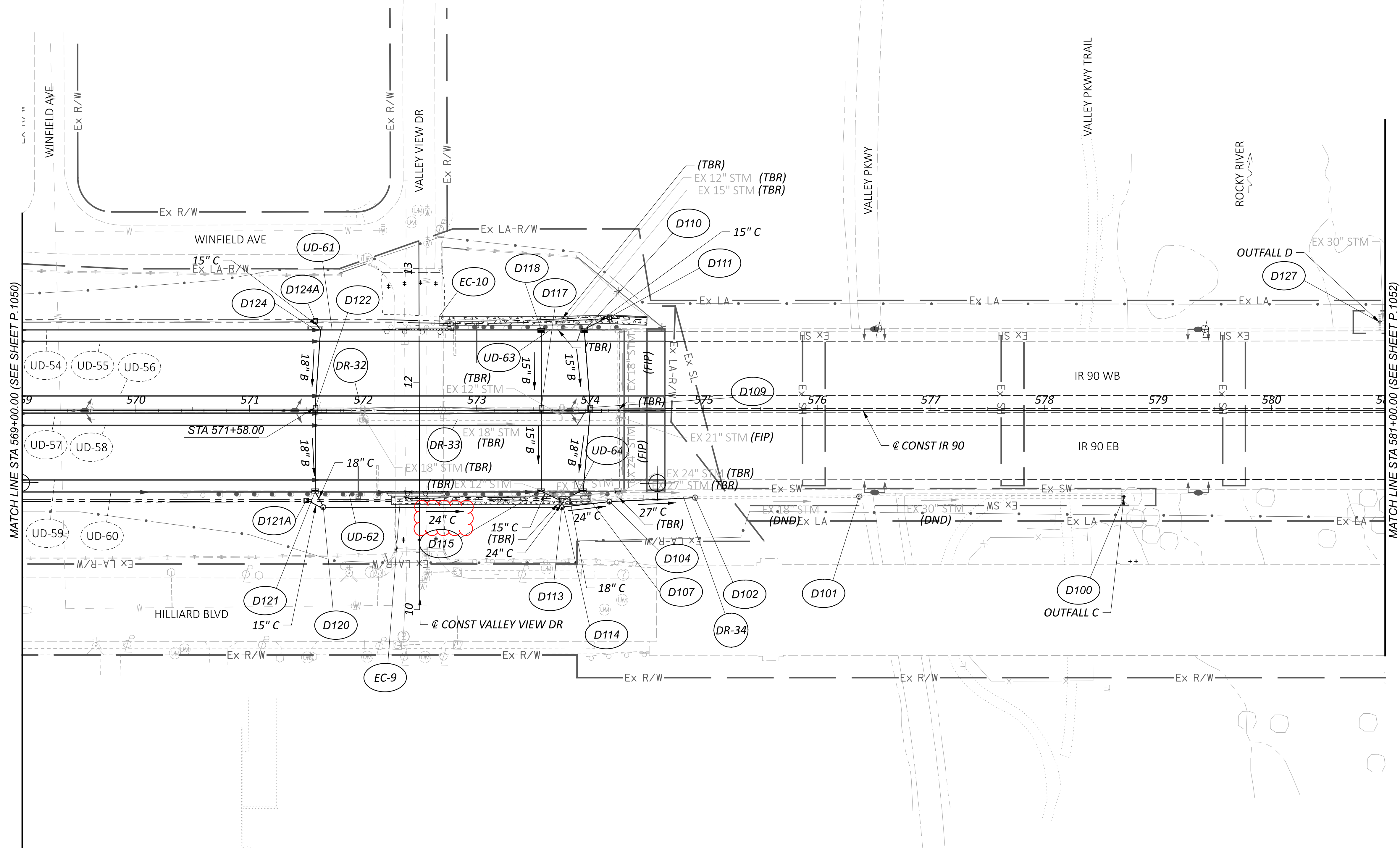
SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	611																					
			FROM	TO		12" CONDUIT, TYPE B	12" CONDUIT, TYPE C	15" CONDUIT, TYPE B	15" CONDUIT, TYPE C	18" CONDUIT, TYPE C	CONDUIT, BORED OR JACKED, 15", TYPE B	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	CATCH BASIN, NO. 3	CATCH BASIN, NO. 3, AS PER PLAN	CATCH BASIN, NO. 5	CATCH BASIN, NO. 6	CATCH BASIN, MISC.: CB-1 (CITY OF CLEVELAND)	INLET, NO. 2-A-6	INLET, NO. 2-A-8	INLET, NO. 2-A-10	INLET, NO. 2-A-12	INLET, NO. 2-A-14	MANHOLE, NO. 3			
OUTFALL M CONTINUED						FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
1066/1144	D803	IR 90	755+76.25	755+63.00	LT			84																			
1066/1144	D801	IR 90	755+63.00	755+65.00	LT/RT				15							1		1									
1066/1144	D802	IR 90	755+65.00	755+56.00	RT							103															
1066/1144	D799	IR 90	756+75.75	756+74.00	LT			87																			
1066/1144	D796	IR 90	757+75.00	758+05.00	LT			92																			
1067/1145	D793	IR 90	761+00.00	759+15.00	RT			190													1						
1067/1145	D792	IR 90	759+15.00	759+15.00	LT/RT							119						1									
1067/1145	D786	IR 90	759+15.00	759+67.00	LT							110									1						
1067/1145	D788	IR 90	759+67.00	760+85.00	LT			115													1		1				
1067/1145	D789	IR 90	760+85.00	762+45.00	LT			156													1						
1067/1145	D790	IR 90	762+45.00	764+25.00	LT			176													1						
1067/1146	D780	IR 90	763+00.00	763+00.00	LT						14					1											
1067/1146	D776	IR 90	765+70.00	766+00.00	LT						35												1				
1067/1146	D773	RAMP W13	68+31.00	68+34.87	LT			47											1								
1067/1146	D772	IR 90	68+34.87	768+57.00	LT						41										1						
1067/1146	D765	RAMP W13	70+27.00	70+28.00	RT									11							1						
1067/1146	D764	RAMP W13	70+28.00	70+50.00	RT									21													
1067/1146	D760	RAMP W13	70+50.00	70+60.00	RT									16	1		1										
1067/1146	D761	RAMP W13	70+60.00	70+49.00	LT/RT							29								1							
1067/1146	D762	RAMP W13	70+49.00	70+80.00	LT							30			1												
OUTFALL G																											
1064/1147	D441	W 117TH ST	53+84.00	33+60.64	RT	6															1						
1064/1147	D442	W 117TH ST	33+60.64	53+88.60	RT	5																	1				
OUTFALL H																											
1064/1148	D448	RAMP 117-8	32+94.00	44+09.59	LT			68									1										
OUTFALL I																											
1067/1149	D452	RAMP W14	69+50.00	69+44.00	LT/RT			48									1		1								
1067/1149	D451	RAMP W14	69+44.00	69+57.49	RT																						
1067/1149	D453	RAMP W14	69+13.00	69+44.00	RT																1						
TOTALS CARRIED TO SHEETS 346 & 347						11	68	995	136	34	332	59	48	2	1	5	1	1	2	3	2	3	2	1			

DRAINAGE ESTIMATED QUANTITIES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
 DESIGNER
BER
 REVIEWER
 VDK 08/09/23
 PROJECT ID
 76779
 SHEET TOTAL
 P.0359 P.1587

NOTES:

- 1. FOR LEGEND, SEE SHEET P.1047
- 2. FOR STORM SEWER PROFILES, SEE SHEETS P.1068 - P.1149
- 3. ALL CONNECTIONS TO EXISTING STRUCTURES 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

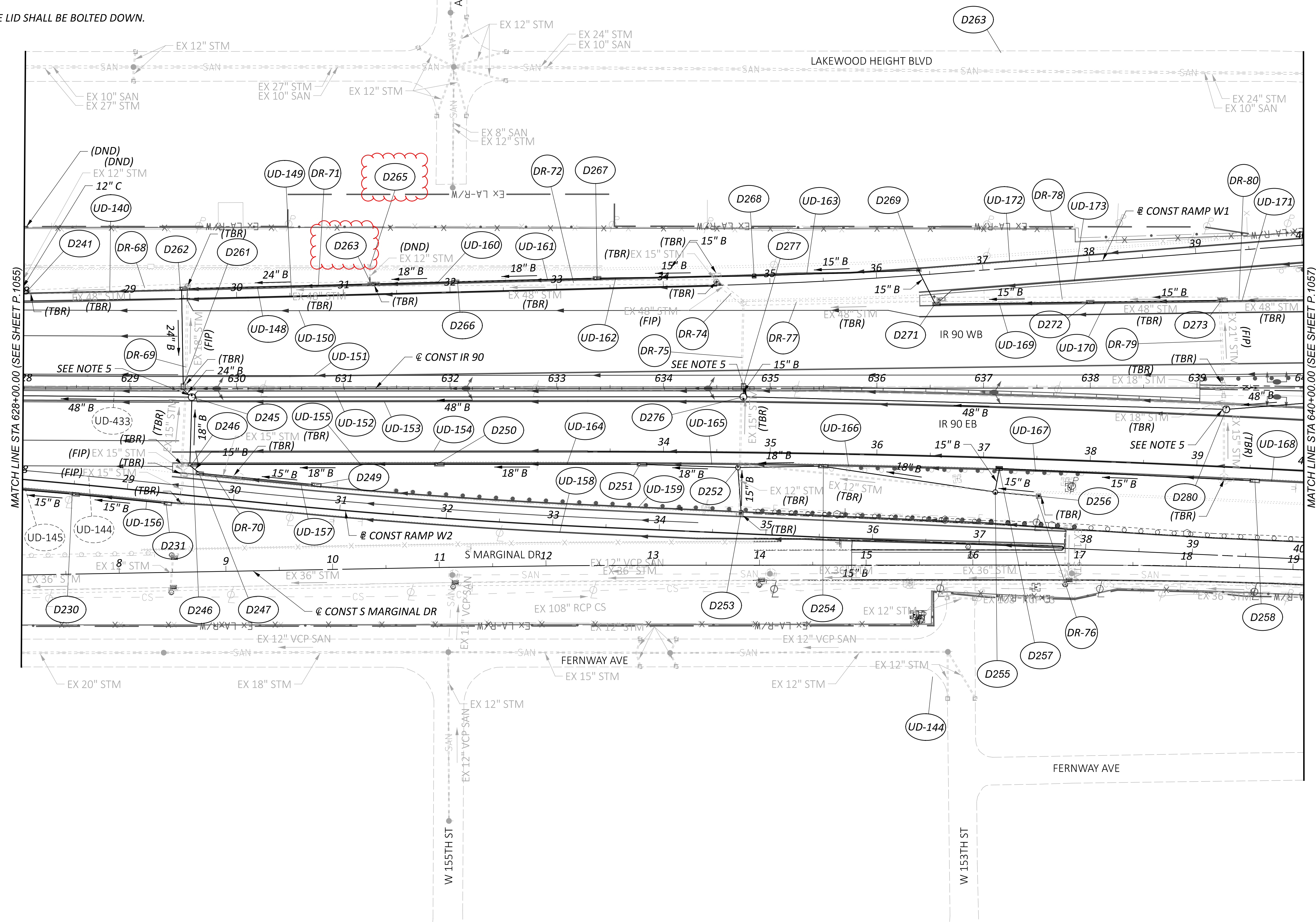
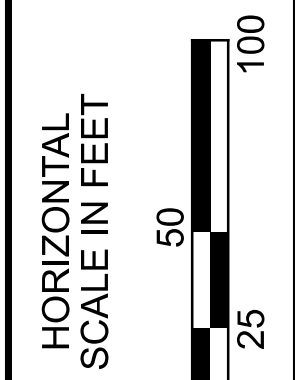
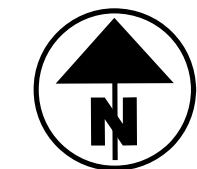


DRAINAGE PLAN SHEET - IR 90
STA 569+00.00 TO STA 581+00.00

DESIGN AGENCY	
STRUCTUREPOINT INC.	
DESIGNER	AJO
REVIEWER	KEM 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.1051	P.1587

NOTES:

1. FOR LEGEND, SEE SHEET P.1047
2. FOR STORM SEWER PROFILES, SEE SHEETS P.1068 - P.1149
3. ALL CONNECTIONS TO EXISTING STRUCTURES 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
5. PROPOSED MANHOLE LID SHALL BE BOLTED DOWN.

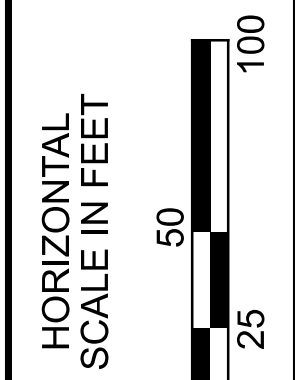
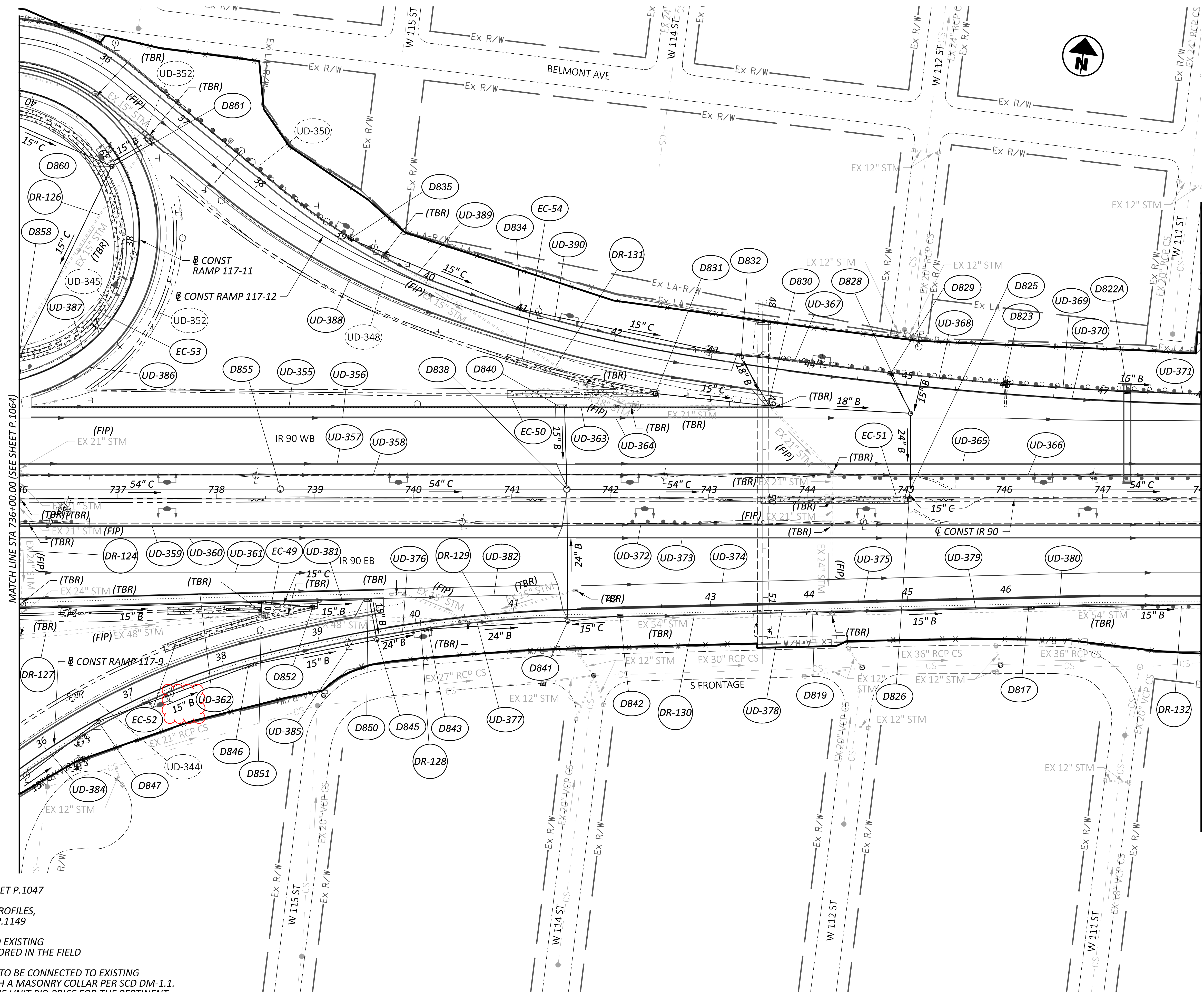


DRAINAGE PLAN SHEET - IR 90
 STA 628+00.00 TO STA 640+00.00

DESIGN AGENCY	
STRUCTUREPOINT	
DESIGNER	AJO
REVIEWER	KEM 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.1056	P.1587

NOTES:

1. FOR LEGEND, SEE SHEET P.1047
2. FOR STORM SEWER PROFILES, SEE SHEETS P.1068 - P.1149
3. ALL CONNECTIONS TO EXISTING STRUCTURES 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



DRAINAGE PLAN SHEET - IR 90
STA 736+00.00 TO STA 748+00.00

DESIGN AGENCY	STRUCTUREPOINT
DESIGNER	AJO
REVIEWER	KEM 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.1065	P.1587

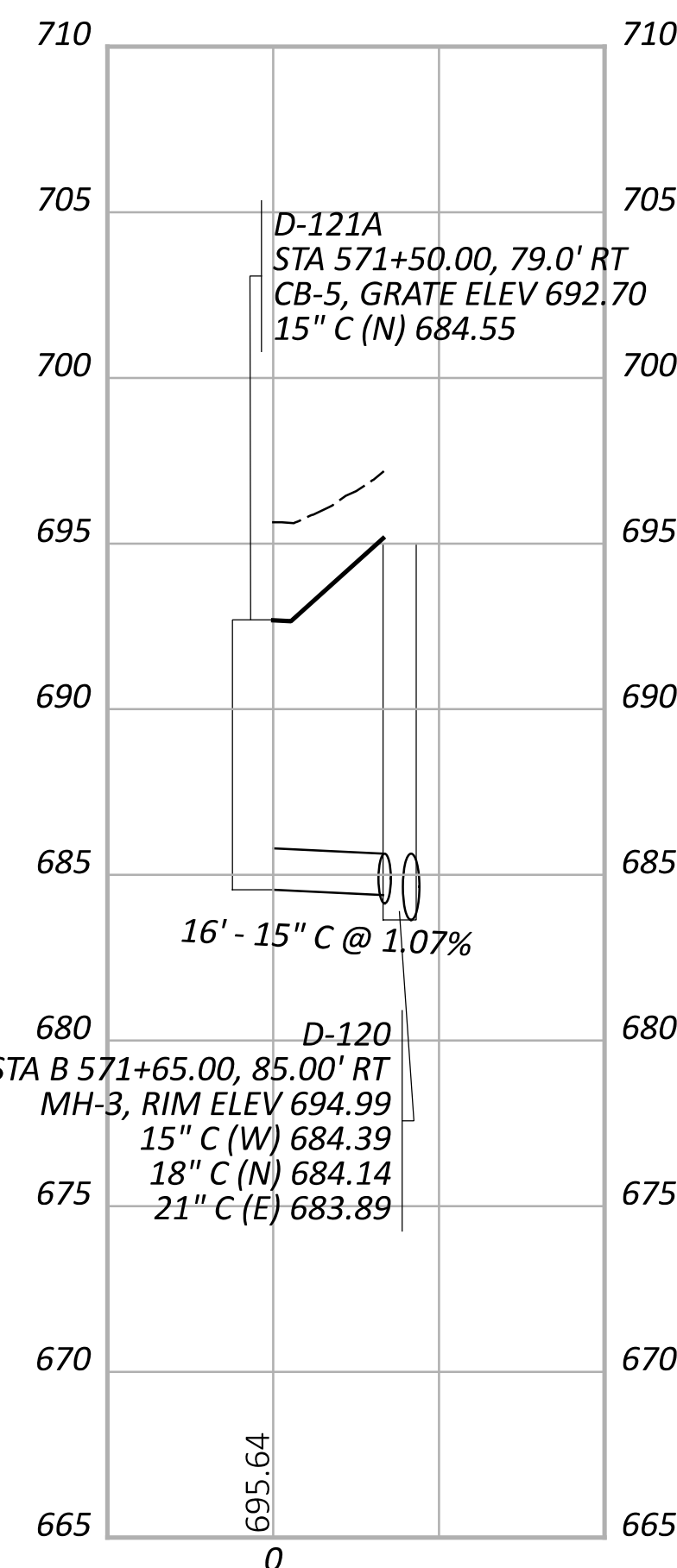
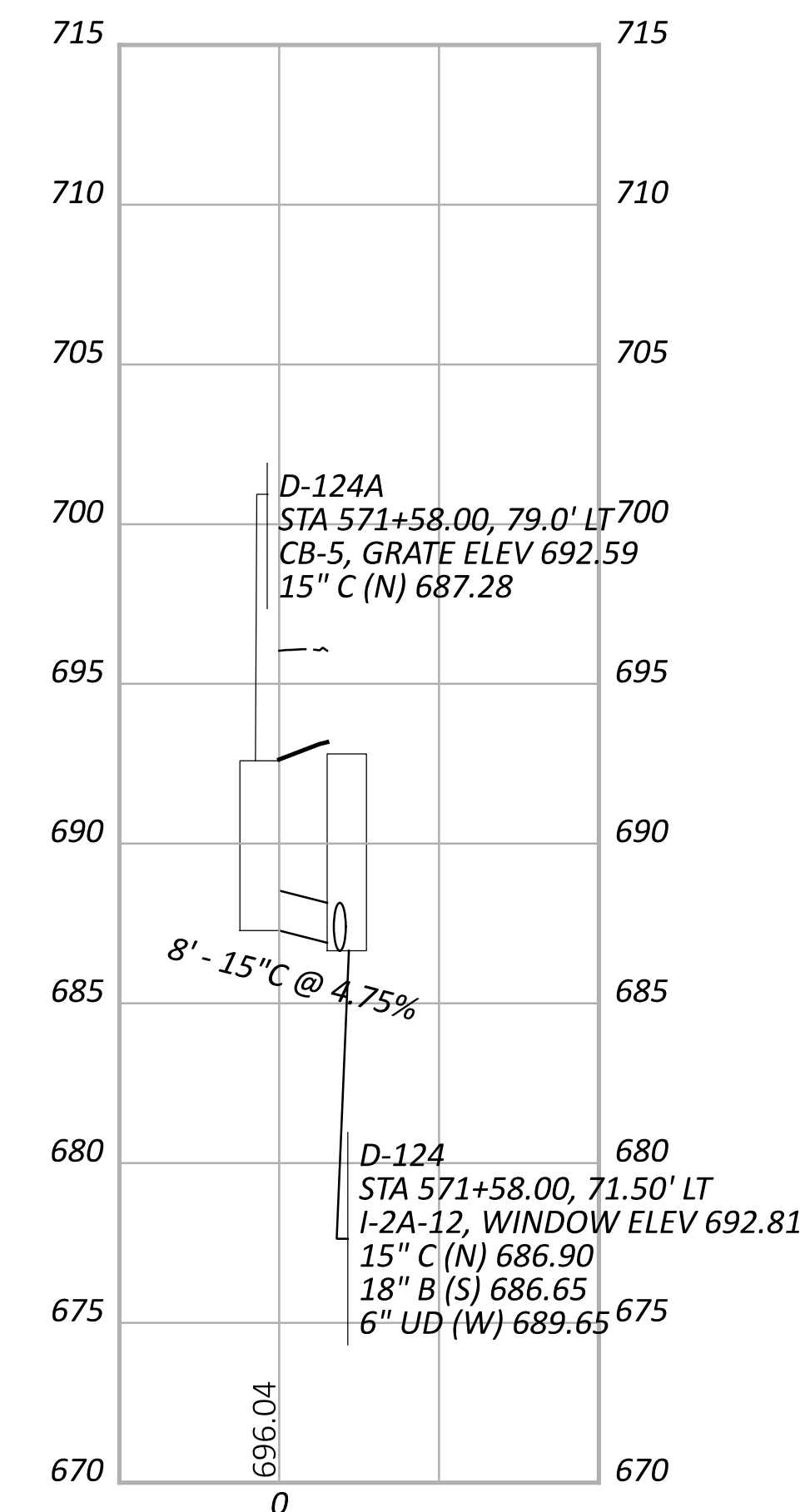
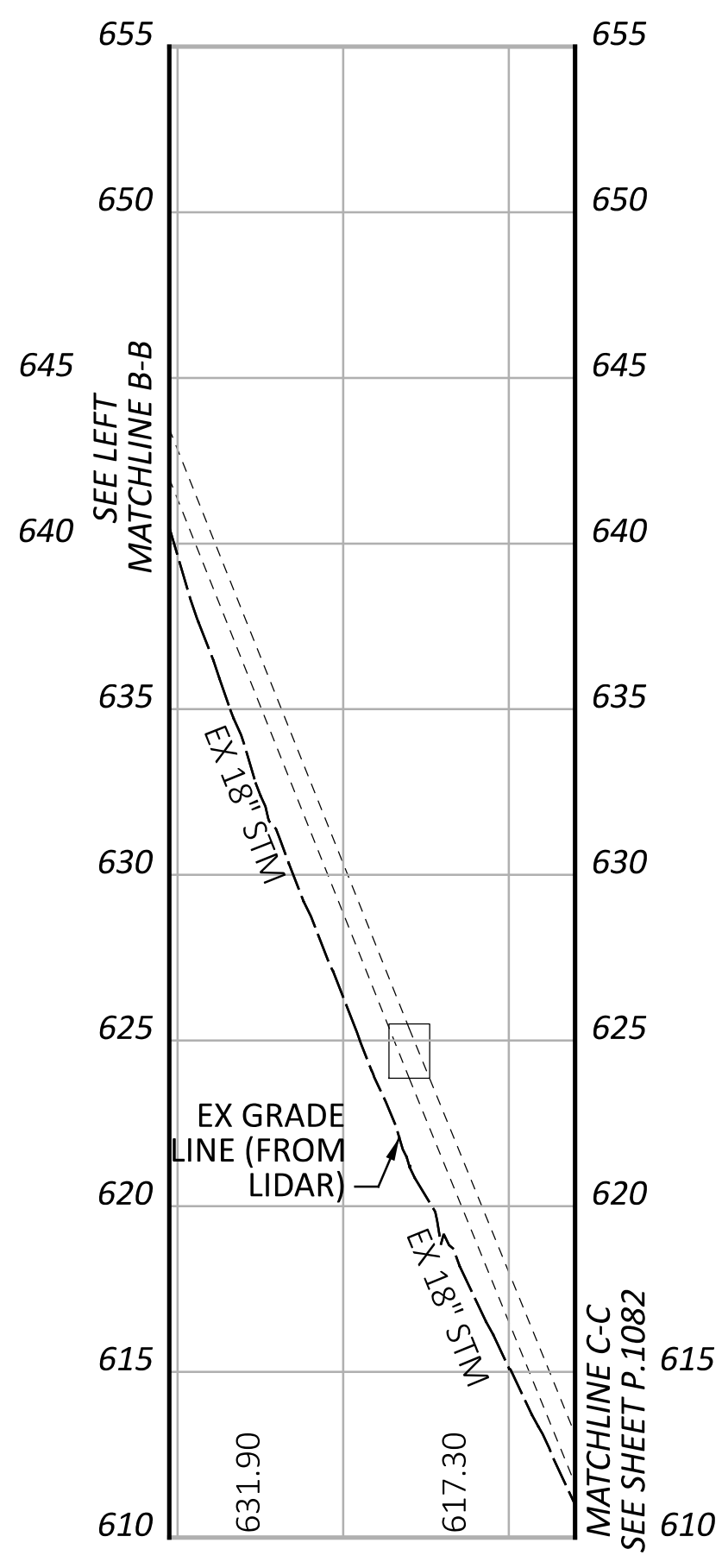
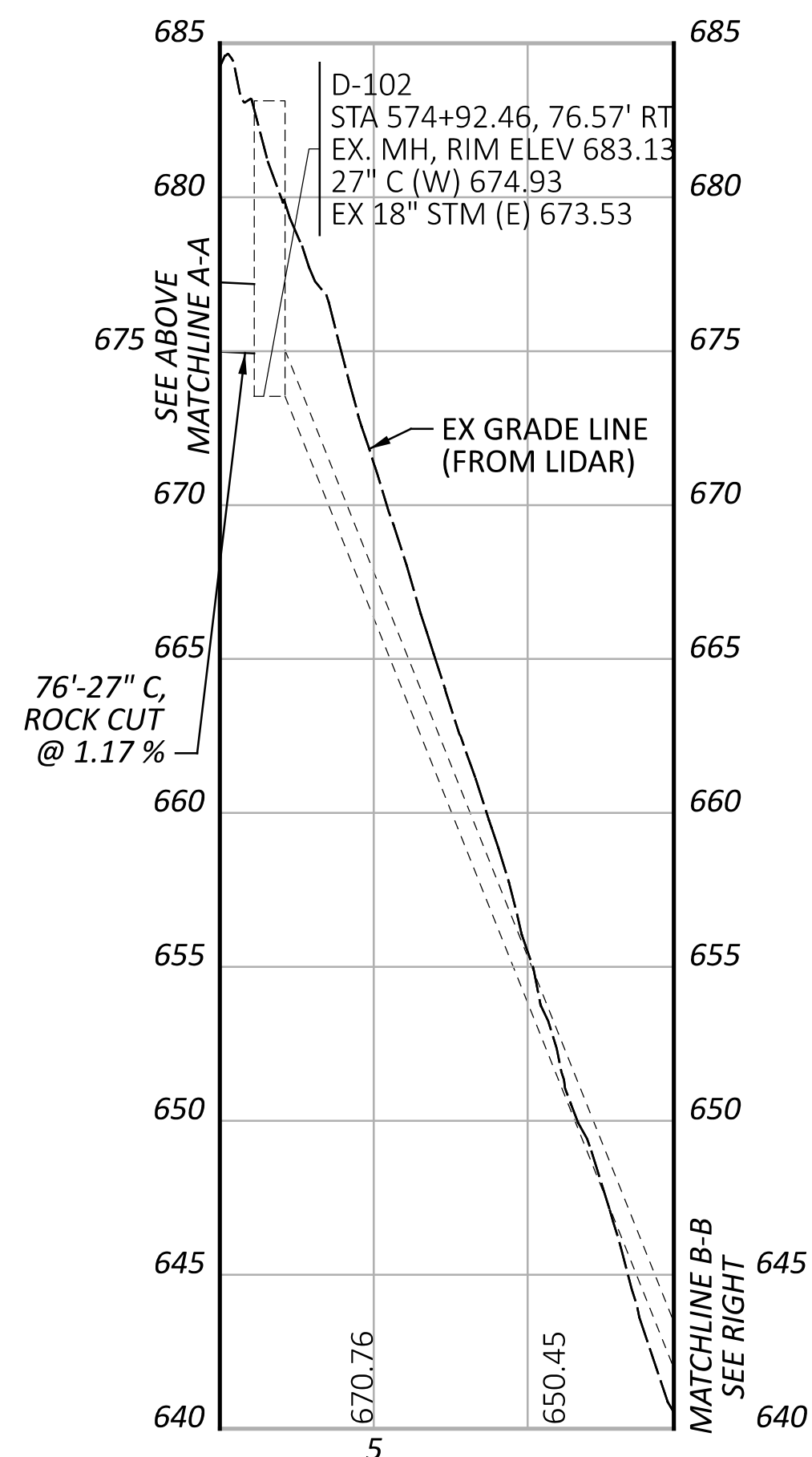
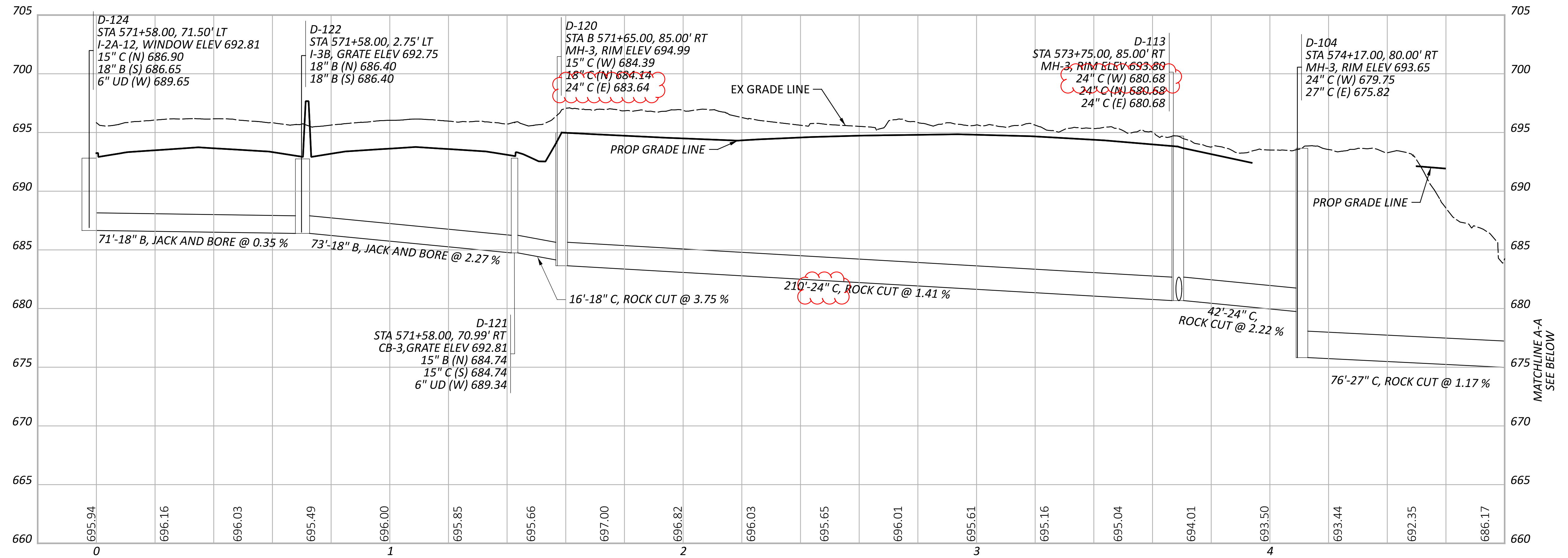
NOTES:

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: PR-C.000 - Profile [Sheet] PAPER: 34x22 (in.) DATE: 4/18/2024 TIME: 10:25:32 AM USER: kmorton
 p:\struc\urpoint-pw\ben\filey.com\struc\urpoint-pw-0\Documents\Projects\20200062\76779\400-Engineering\Drainage\Sheets\76779_DF040.dgn

STORM SEWER PROFILES
OUTFALL C

DESIGN AGENCY	STRUCTUREPOINT INC.
DESIGNER	AJO
REVIEWER	KEM 08/09/23
PROJECT ID	76779
SHEET	TOTAL
P.1081	P.1587

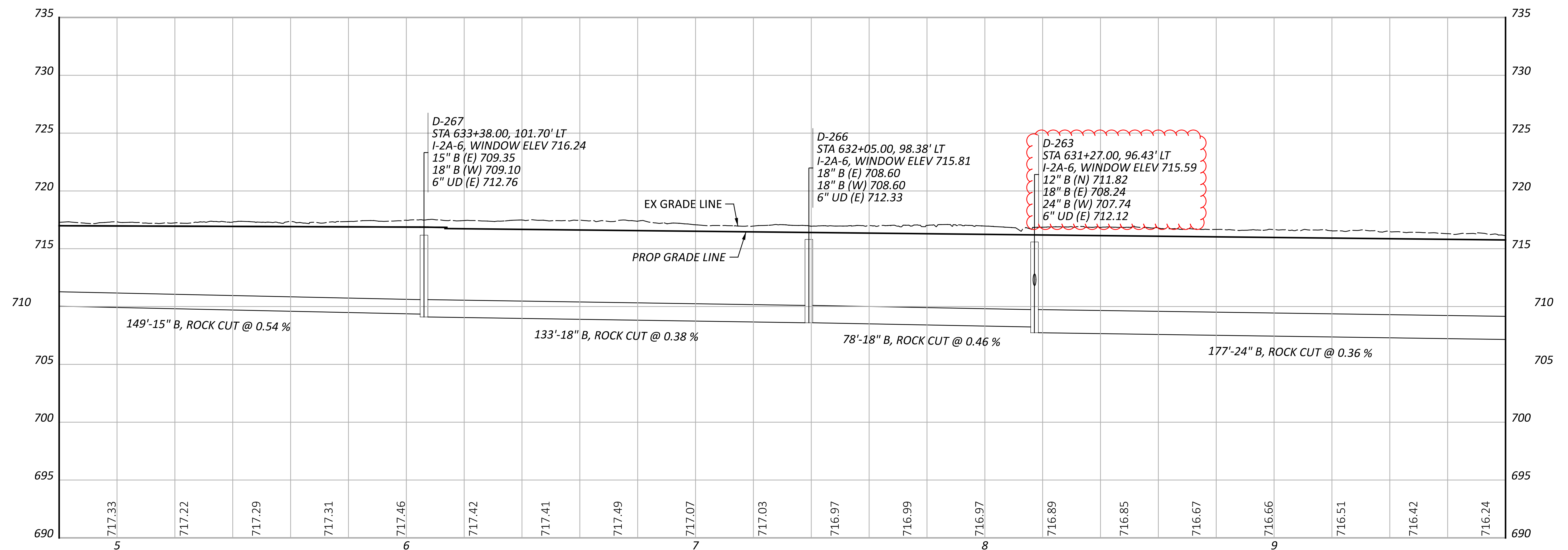
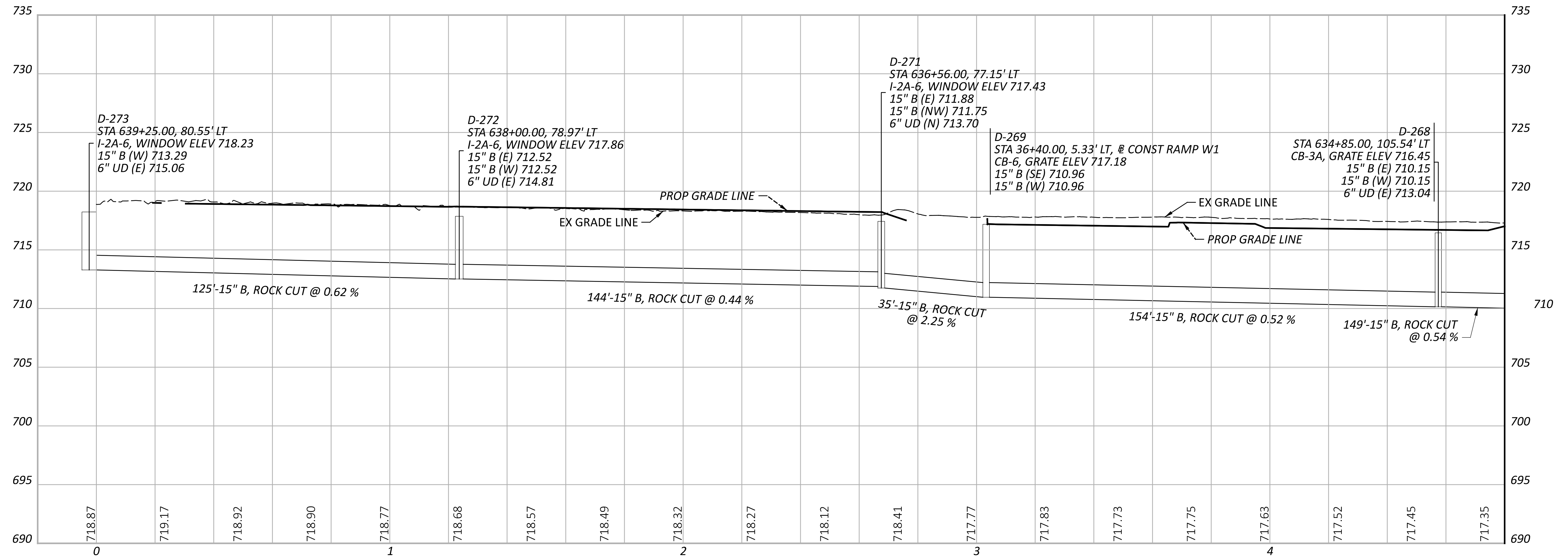
NOTES:

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: PR.D.025 - Profile [Sheet] PAPER SIZE: 34x22 (in.) DATE: 4/18/2024 TIME: 2:49:11 PM USER: knorfton
 pw:\struc\urpoint-pw\benfley\com\struc\urpoint-pw-0\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DF064.dgn

STORM SEWER PROFILES
OUTFALL D

DESIGN AGENCY	STRUCTUREPOINT INC.
DESIGNER	AJO
REVIEWER	KEM 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.1105 P.1587

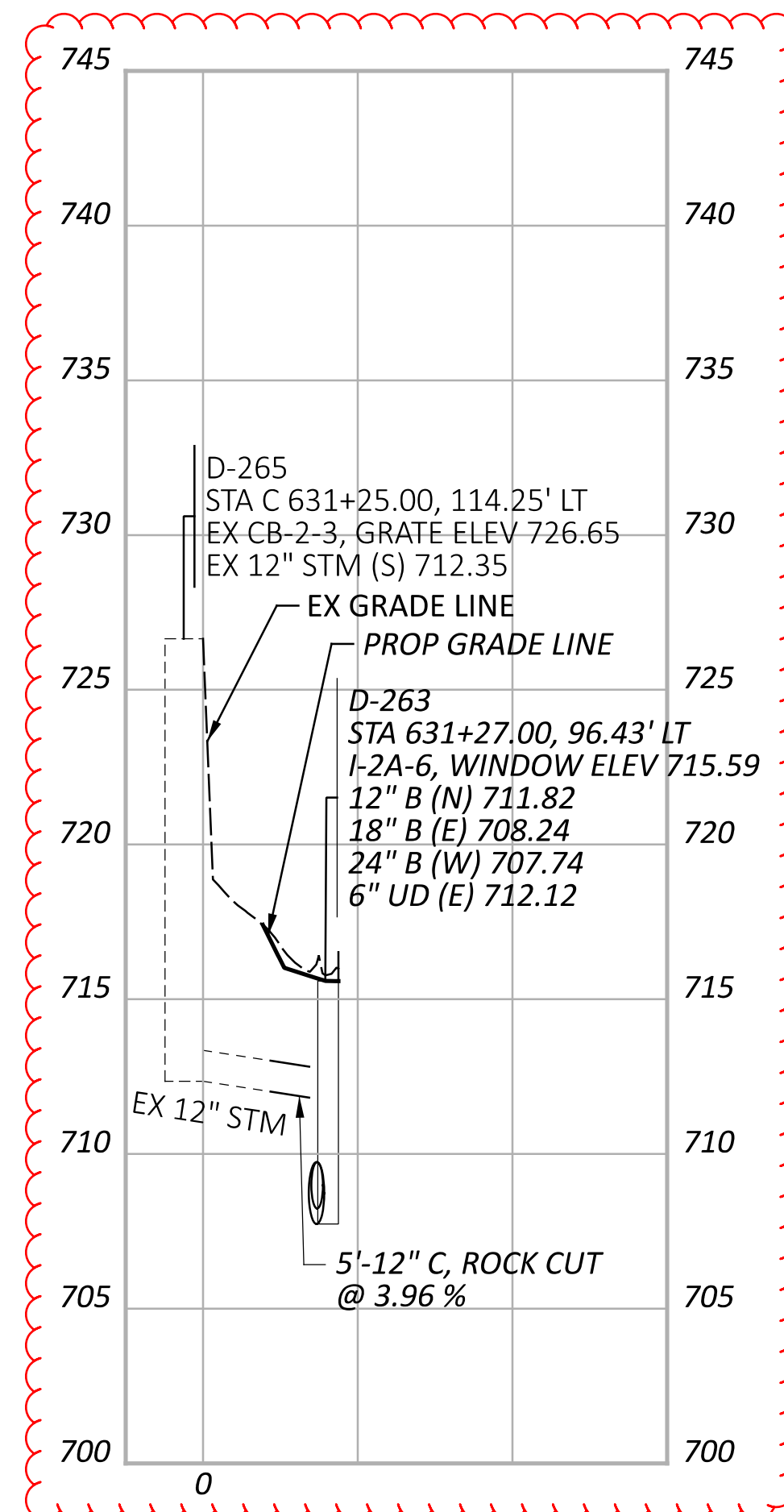
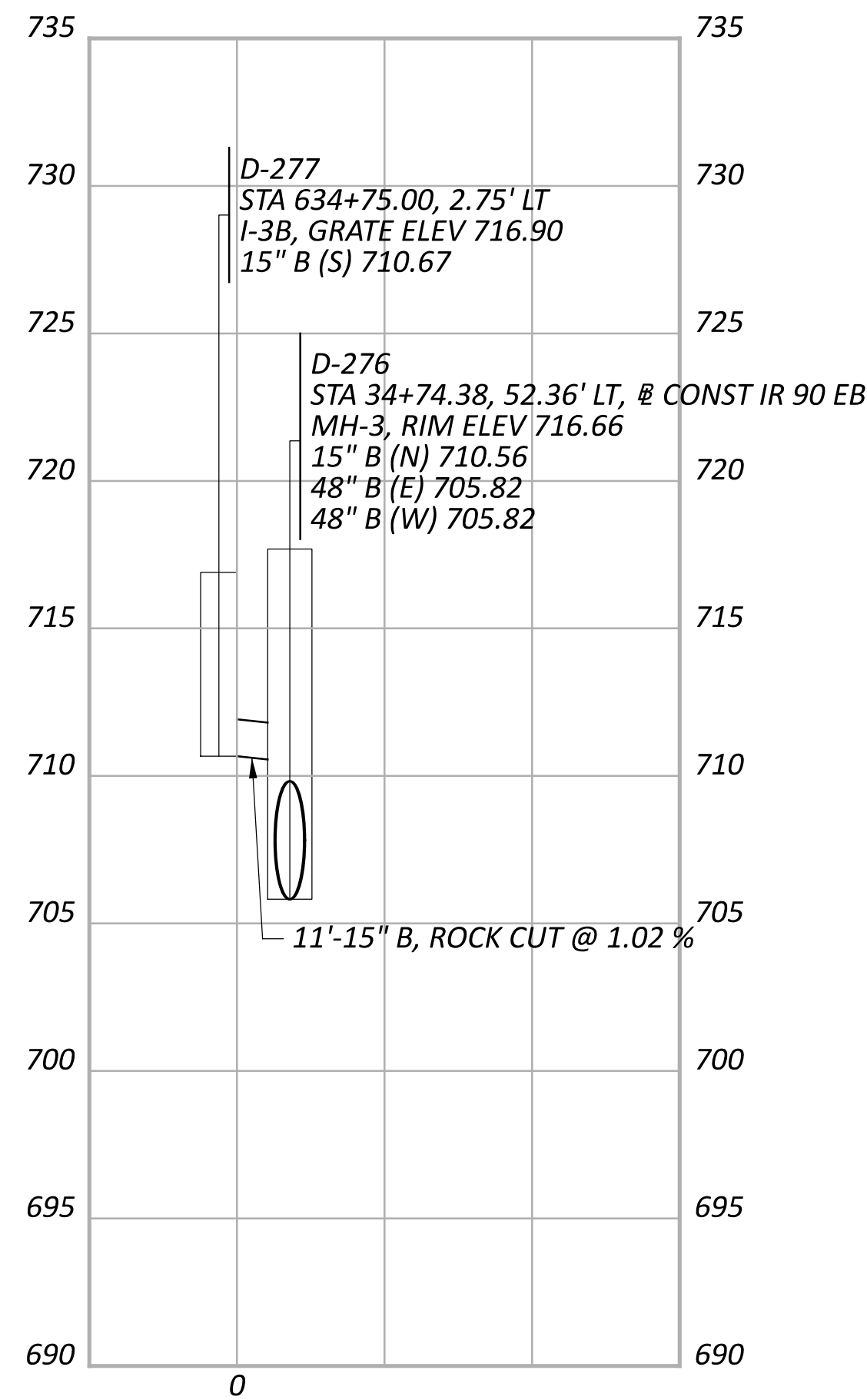
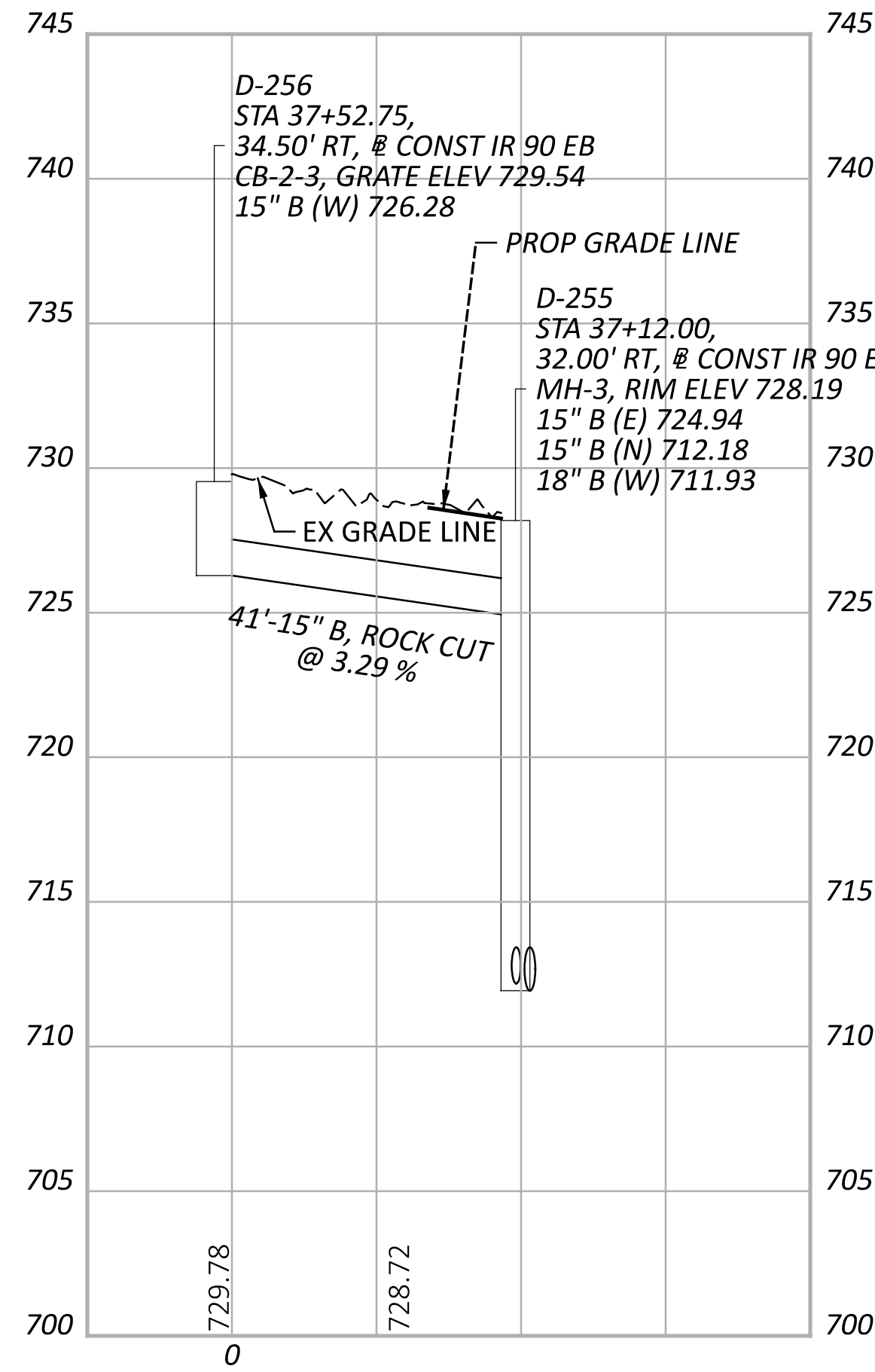
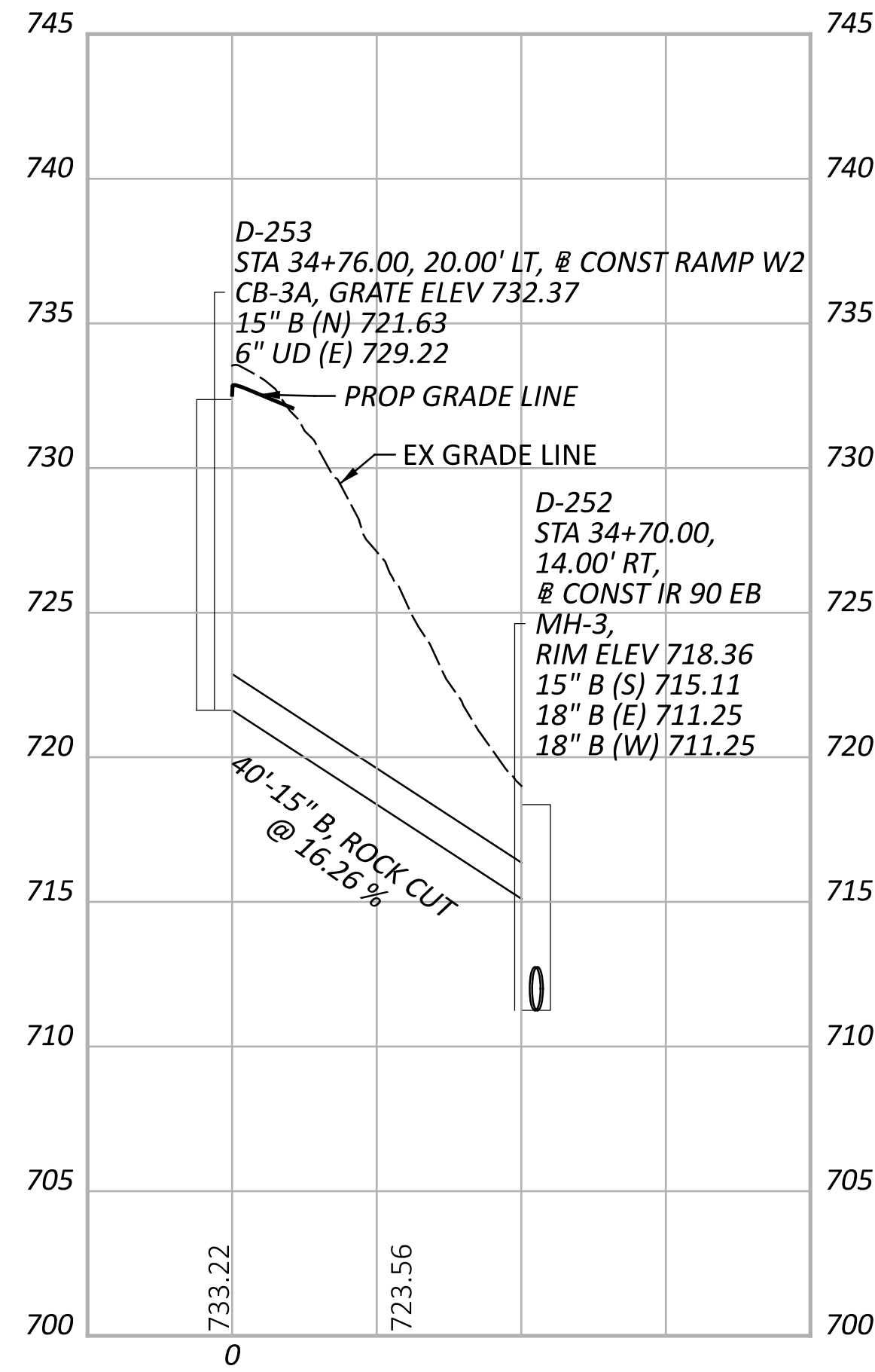
NOTES:

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



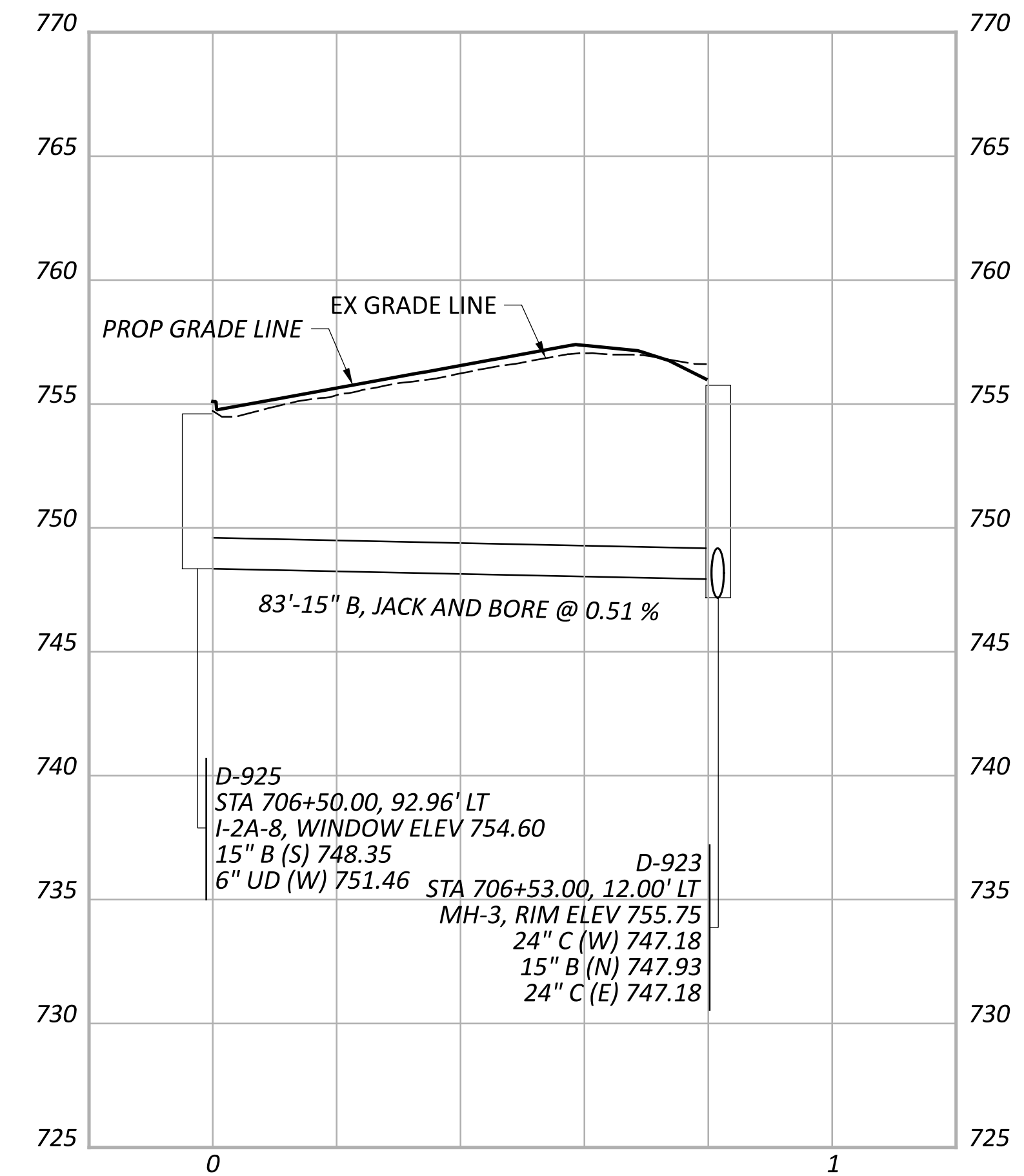
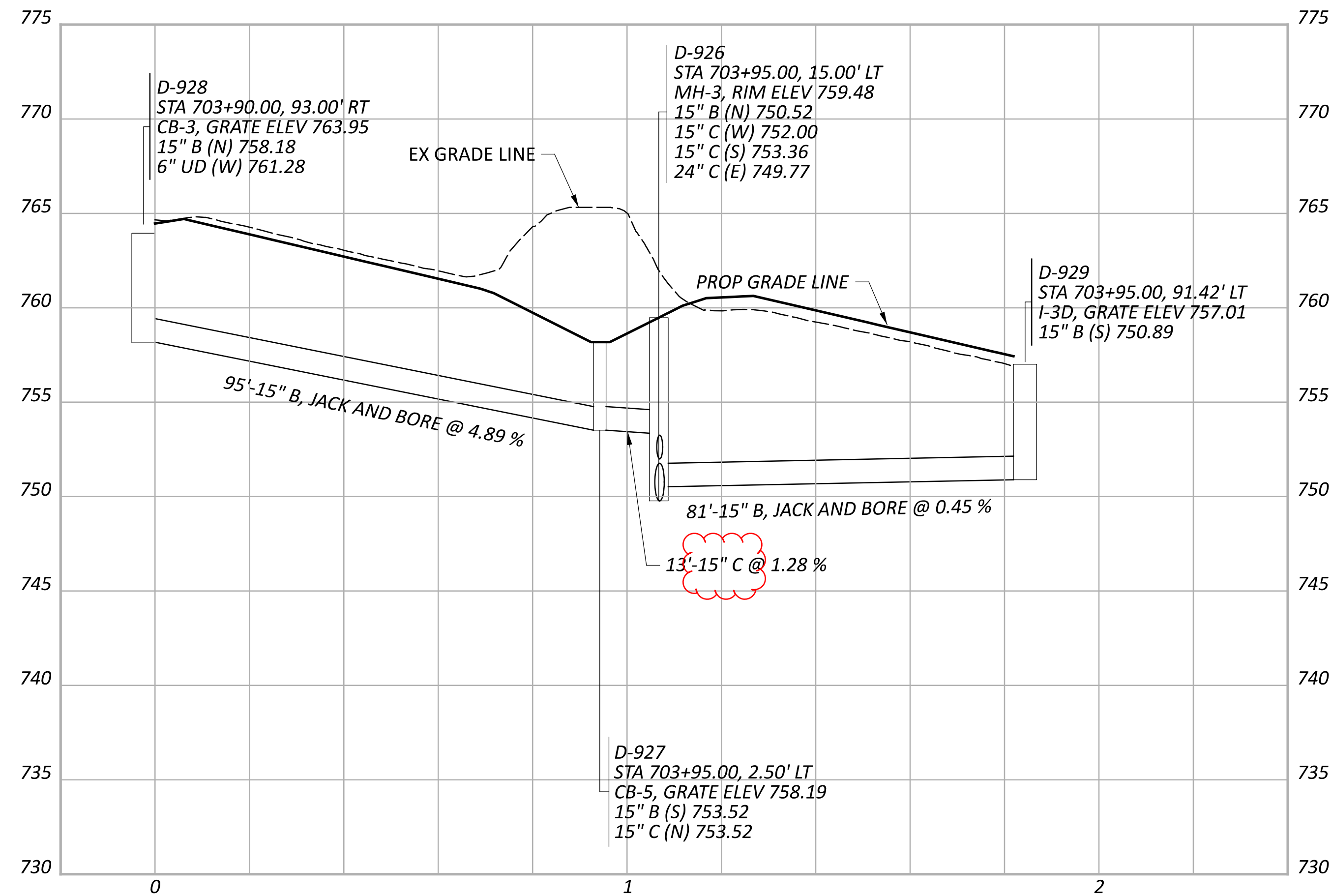
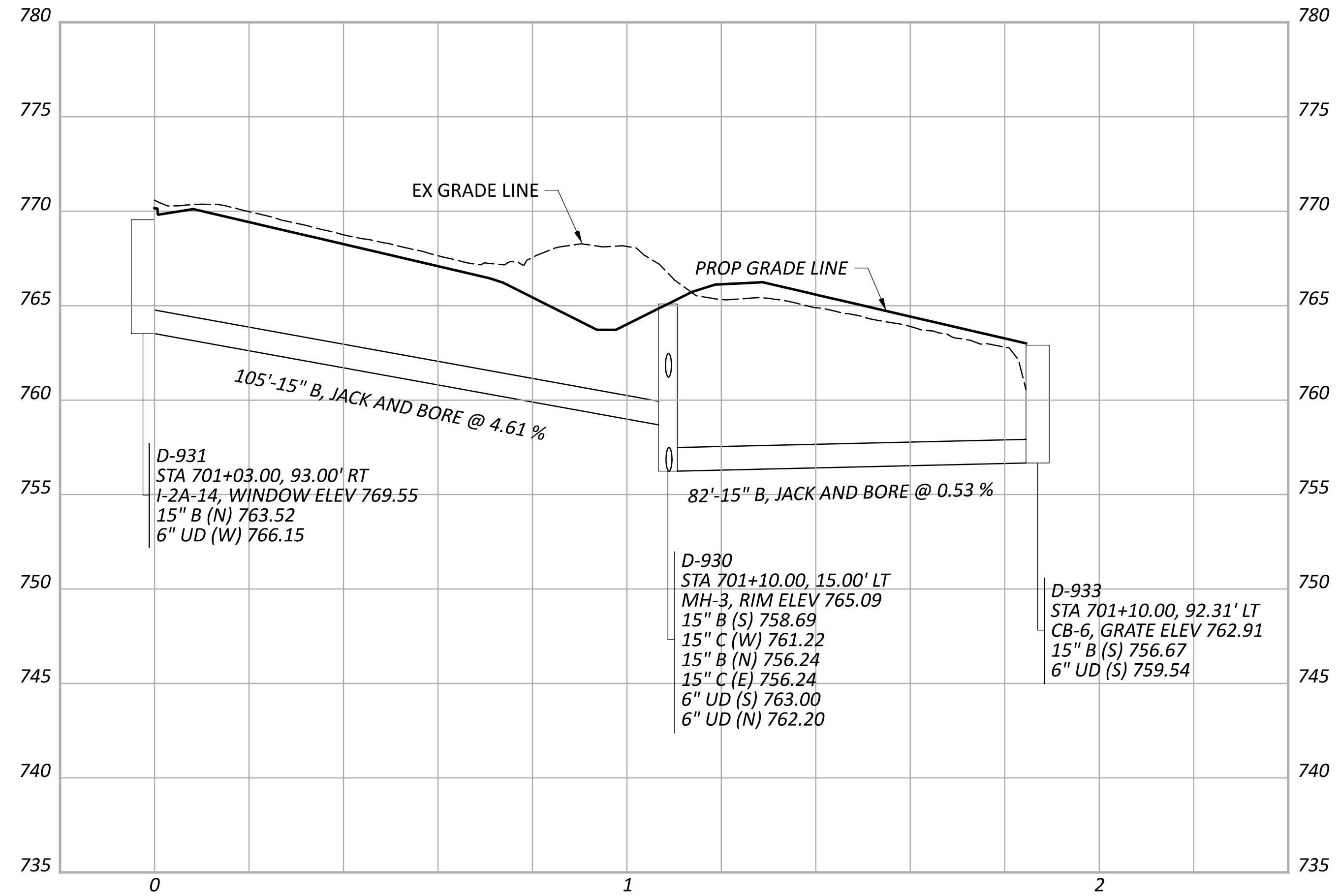
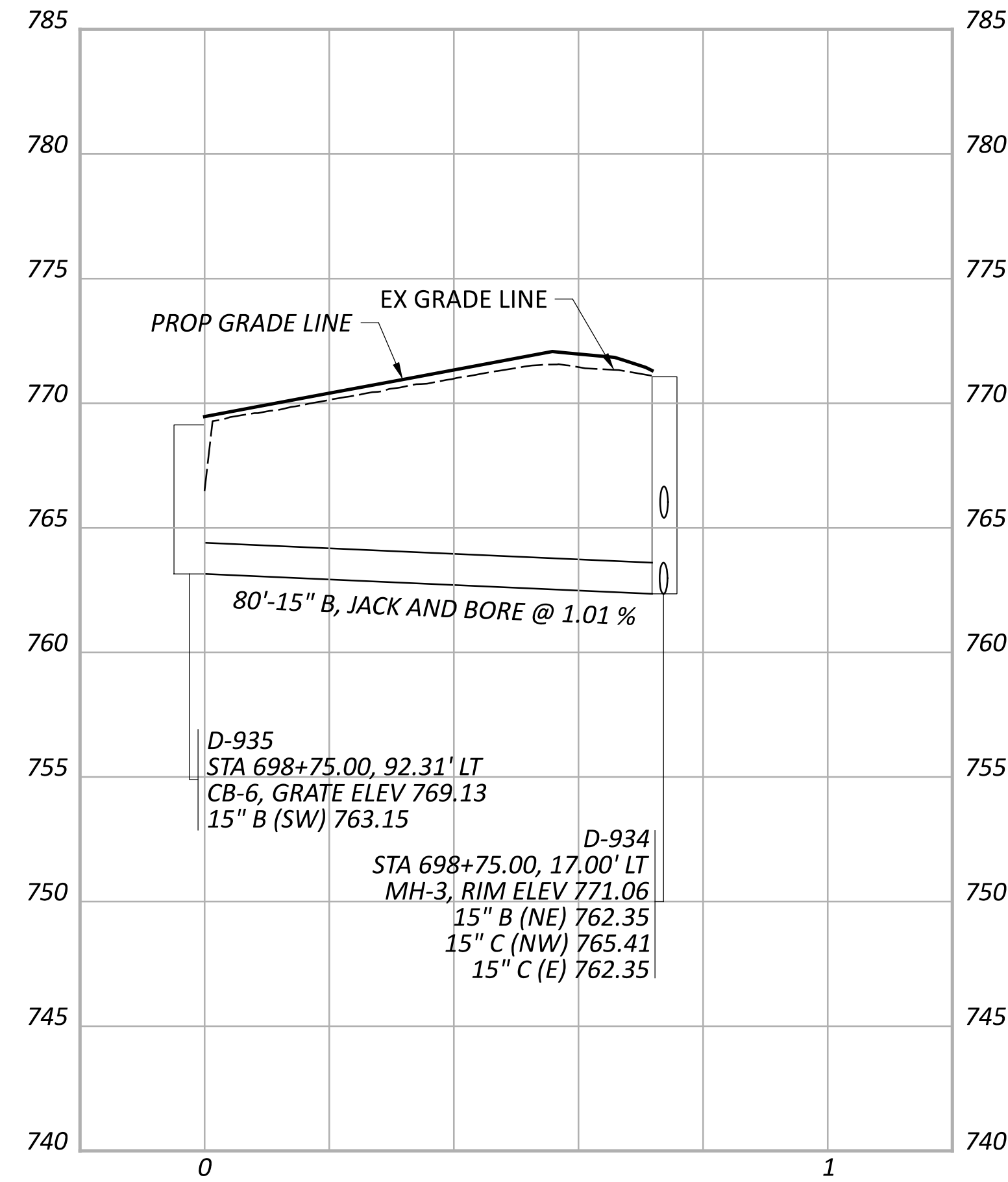
NOTES:

1. ALL STATIONING TAKEN FROM C 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: PR.M.001 - Profile I [Sheet] PAPER SIZE: 34x22 (in.) DATE: 4/17/2024 TIME: 7:59:01 AM USER: brieder
pw:\struc\urpoint-pw\ben\flex\com\structur\epoint-pw-0\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DF108.dgn

STORM SEWER PROFILES
OUTFALL M

DESIGN AGENCY	STRUCTUREPOINT INC.
DESIGNER	AJO
REVIEWER	KEM 08/09/23
PROJECT ID	76779
SHEET TOTAL	P.1130 P.1587

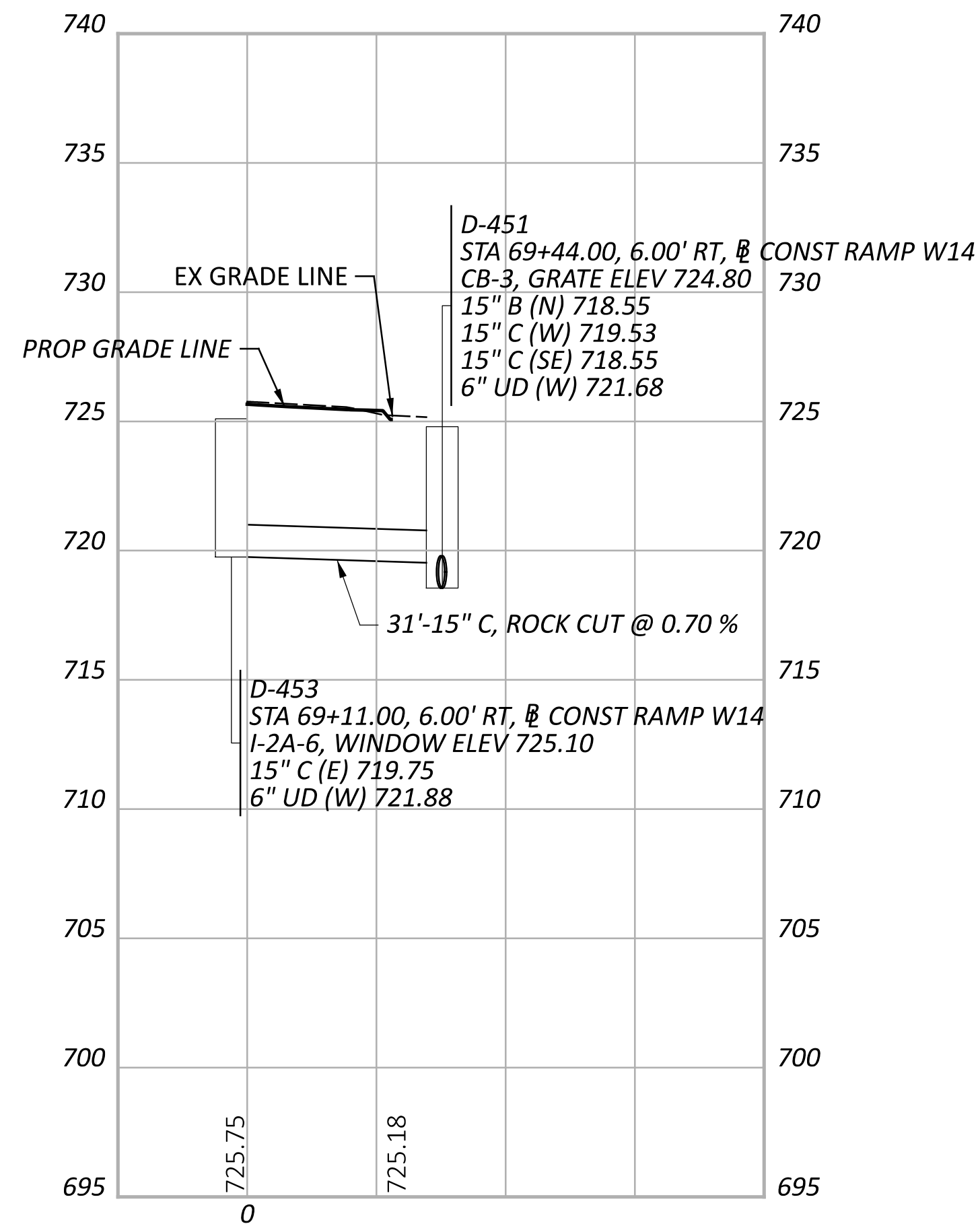
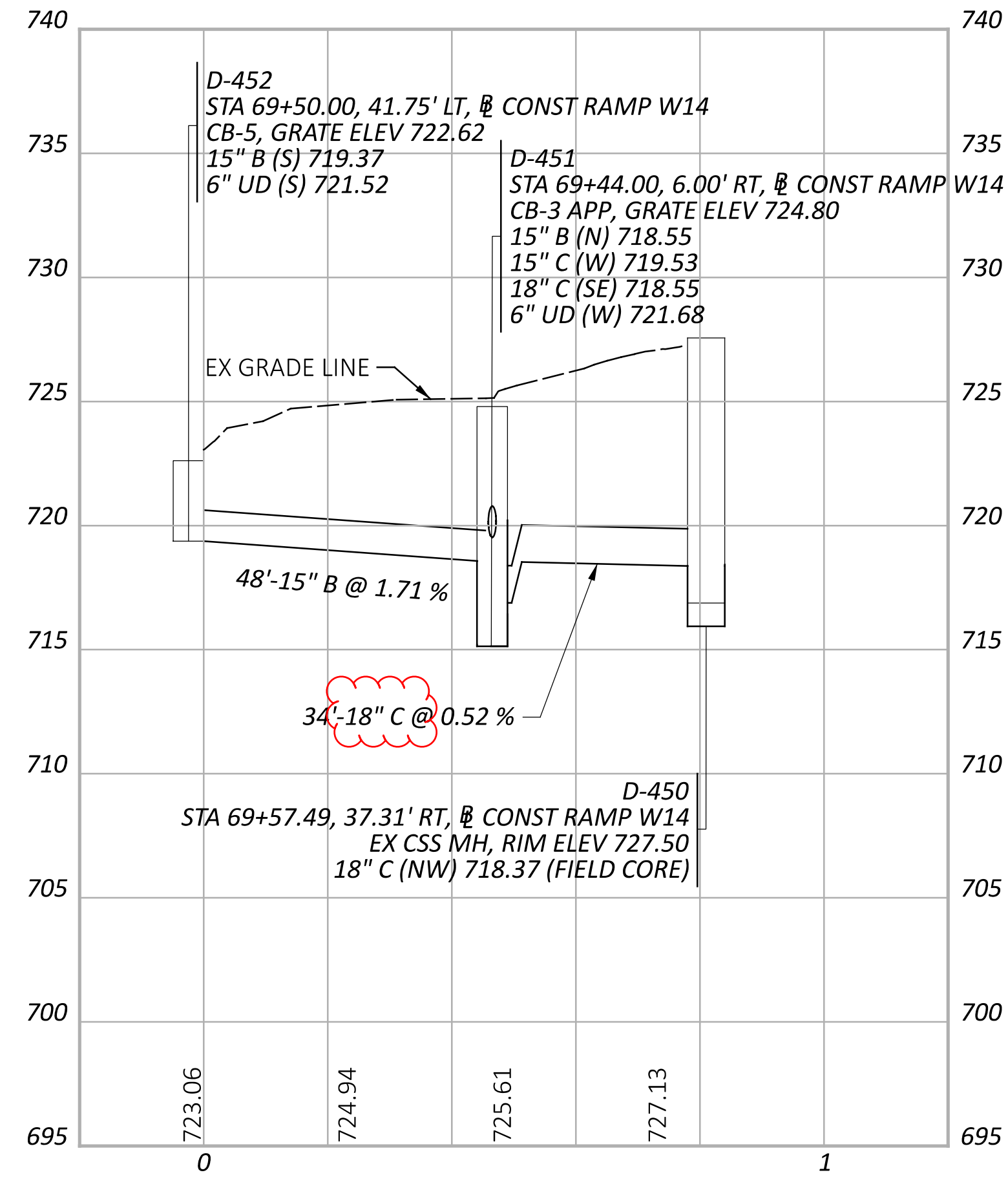
NOTES:

1. ALL STATIONING TAKEN FROM ξ 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 I

CUY-90-6-69

MODEL: PR_I_000 - Profile [ISheet] PAPER SIZE: 34x22 (in.) DATE: 4/17/2024 TIME: 7:59:48 AM USER: brfeder
p:\structurepoint-pw\benfley.com\structurepoint-pw-0\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DF150.dgn

DESIGN AGENCY	
STRUCTUREPOINT INC.	
DESIGNER	
AJO	
REVIEWER	
KEM 08/09/23	
PROJECT ID	
76779	
SHEET	TOTAL
P.1149	P.1587

ESTIMATED QUANTITIES

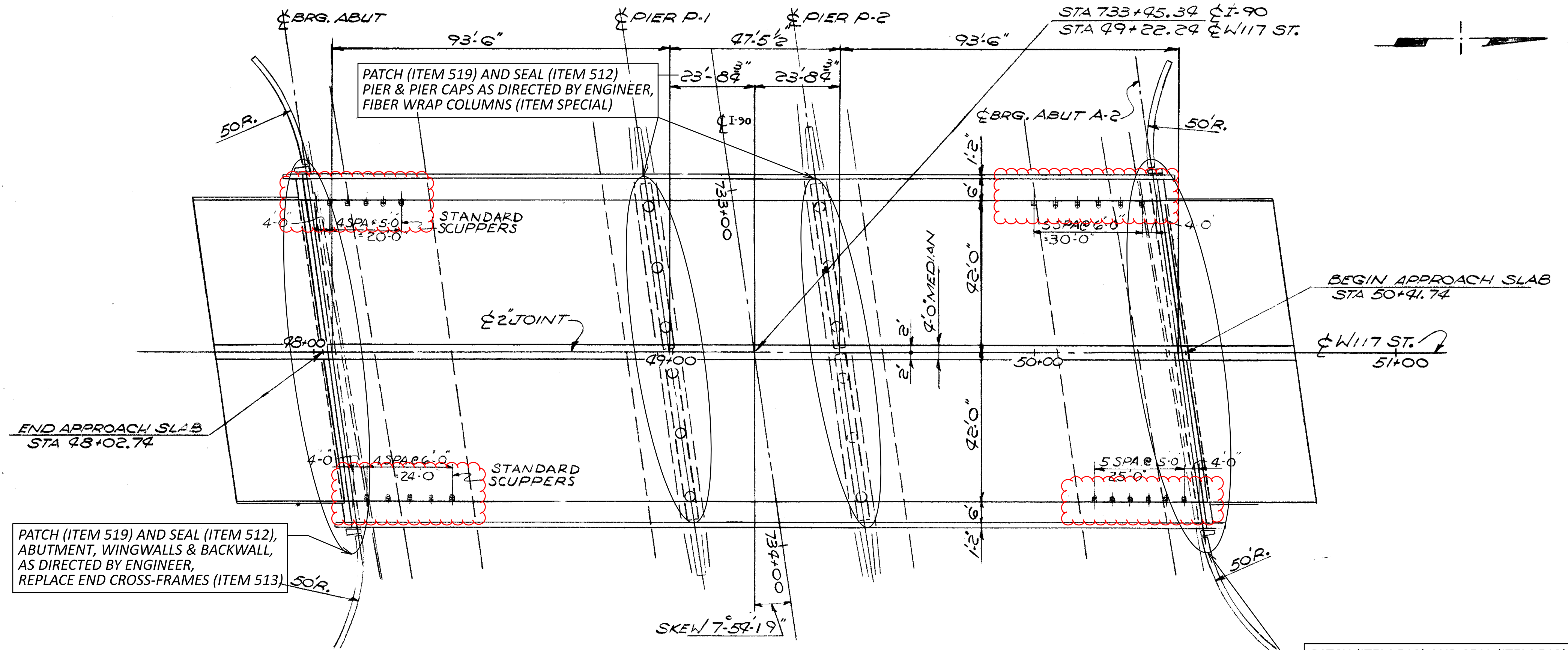
PARTICIPATION		ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REAR ABUTMENT	PIERS	FORWARD ABUTMENT	SUPER.	GENERAL	SHEET REF.
02/IMS/13	03/IMS/13											
	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS	3, 1348 / 1587
	427	202	22900	427	SY	APPROACH SLAB REMOVED					427	
	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		
	897	514	00050	897	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL				897		
	897	514	00056	897	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT				897		
	1622	514	00060	1622	SF	FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT				1622		
	1622	514	00066	1622	SF	FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT				1622		
	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		

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

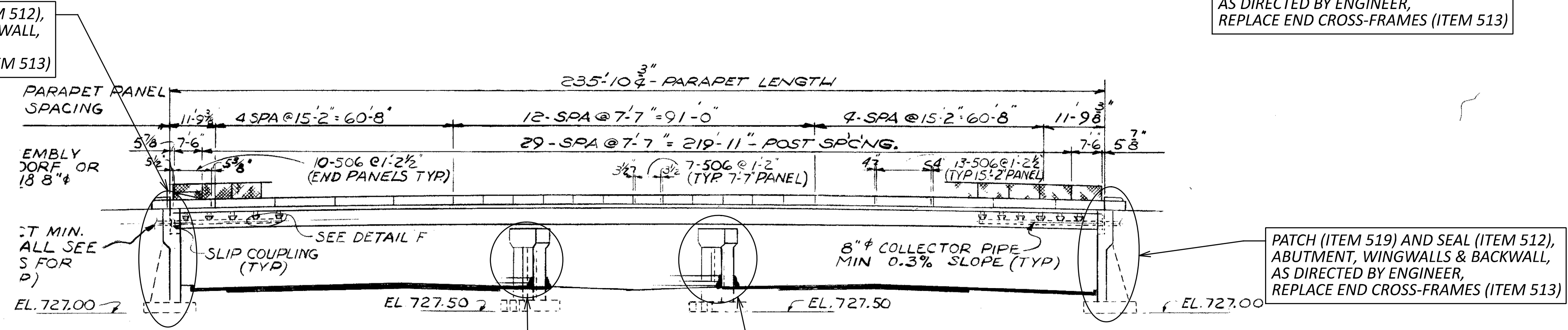
ESTIMATED QUANTITIES
 BRIDGE NO.: CUY-00090-07.580
 IR 90 OVER ROCKY RIVER VALLEY

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

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 4/17/2024 TIME: 2:26:07 PM USER: Blake, Mathias
 p:\structurepoint-pw-bentley.com\structurepoint-pw-01\Documents\Projects\20200006276779\400-Engineering\Structures\SFN_1808249\Sheets\SFN_1808249_S0001.dgn



GENERAL PLAN



ELEVATION

- PROPOSED WORK NOTE:**
- INSPECT EXISTING PARAPETS AND PATCH AS DIRECTED BY THE ENGINEER. CONTINGENCY QUANTITY OF 100 SF IS PROVIDED UNDER ITEM 519 - PATCHING OF CONCRETE STRUCTURE.
 - PATCH ABUTMENTS AND PIER CAPS AS DIRECTED BY THE ENGINEER.
 - EXCAVATE TO TOP OF FOOTING TO FACILITATE FIBER WRAPPING AT FIXED PIERS.
 - 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.
 - REPLACE END CROSSFAMES AS DETAILED IN THESE PLANS. REPAIR DAMAGED AREAS OF STEEL COATING SYSTEM.
 - SEE LIGHTING PLANS FOR ADDITIONAL DETAILS.

EXISTING STRUCTURE

TYPE: CONTINUOUS WELDED STEEL PLATE GIRDERS WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURES.

SKEW: 7°-54'-19" RF.

SPANS: 93'-6", 47'-5 1/2", 93'-6"

ROADWAY: 84' 7" CURBS WITH 6' SIDEWALK... 4' MEDIAN.

LOADING: HS 20-44

WEARING SURFACE: 1 1/2" ASPHALT CONCRETE

APPROACH SLABS: 30' LONG (AS-1-72) 11/11

ALIGNMENT: TANGENT.

SUPERELEVATION: NONE.

SLOPE PROTECTION: NONE REQUIRED.

TRAFFIC: I-90 109,184 A.D.T. 1975.
 W.117 32,250 A.D.T. 1975.

- 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.

GENERAL PLAN & ELEVATION
 BRIDGE NO.: CUY-00090-10.620
 IR 90 UNDER W 117TH

SFN	1808249
DESIGNER AGENCY	2LMN
DESIGNER CHECKER	BIM JAH
REVIEWER	MUR 04/14/23
PROJECT ID	76779
SUBSET	TOTAL
1	5
SHEET	TOTAL
P.1484	P.1587

ESTIMATED QUANTITIES FOR SFN 1808249

PARTICIPATION	ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	REAR ABUTMENT	PIERS	FORWARD ABUTMENT	SUPER.	GENERAL	SHEET REF.
02/IMS/13	503	21100	8	CY	UNCLASSIFIED EXCAVATION		8				1348
02/IMS/13	512	10100	162	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	29	15	118			
02/IMS/13	SPECIAL	512E71500	131	SY	SPECIAL - URETHANE TOP COAT SEALER		131				1349
02/IMS/13	513	21501	145	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN				145		1349
02/IMS/13	514	27800	LS		FIELD PAINTING, MISC.: COATING SYSTEM REPAIR					LS	1349
02/IMS/13	SPECIAL	519E00100	1172	SF	SPECIAL - COMPOSITE FIBER WRAP SYSTEM		1172				1350
02/IMS/13	519	11101	1868	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	255	455	1058	100		1350

CALCULATED BY: BIM DATE: 8/4/2023

CHECKED BY: RTF/JAH DATE: 8/5/2023

ESTIMATED QUANTITIES
 BRIDGE NO.: CUY-00090-10.620
 IR 90 UNDER W 117TH

SFN
 1808249

DESIGN AGENCY

2LMN

DESIGNER CHECKER

BIM JAH

REVIEWER

MUR 04/14/23

PROJECT ID

76779

SUBSET TOTAL

2 5

SHEET TOTAL

P.1485 P.1587