FLEXIBLE START WINDOW CONTRACT

THE FOLLOWING TABLE SHALL BE USED IN CONJUNCTION WITH THE FLEXIBLE START WINDOW CONTRACT PROPOSAL NOTE.

FOR RAMPS THAT LIST TWO SEPARATE CLOSURES, IF THE FIRST END PHASE IS PHASE 1, A SECOND CLOSURE IS INCLUDED FOR FINAL TIE-IN DURING A SUBSEQUENT PHASE. IF THE FIRST END PHASE AND THE SECOND END PHASE ARE THE SAME, THE FIRST CLOSURE FOR EACH INDIVIDUAL RAMP SHALL ONLY APPLY IF THE CONTRACTOR ELECTS TO COMPLETE ITS CONCRETE PAVEMENT IN AN EARLIER PHASE; OTHERWISE THE FIRST CLOSURE WILL NOT BE ALLOWED AND THE CONCRETE PAVING AND THE FINAL TIE-IN SHALL BE COMPLETED IN THE END PHASE.

FINAL TIE-IN MEANS COMPLETING THE ASPHALT PAVEMENT FOR THE FULL WIDTH AND LENGTH OF THE ACCELERATION OR DECELERATION LANE, ADJACENT OUTSIDE SHOULDER AND GORE AREA INCLUDING ALL COURSES EXCEPT THE FINAL SURFACE COURSE.

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE $ PER DAY	WORK WINDOW	
			START	END
RAMP HA CONCRETE PAVEMENT	75 DAYS	$1,500	START OF PHASE 1	END OF PHASE 1
RAMP HA FINAL TIE-IN	45 DAYS	$1,500	START OF PHASE 3	END OF PHASE 3
WESTBOUND SINGLE LANE CLOSURE FOR 66" CONDUIT, BORED OR JACKED	90 DAYS	$10,000	START OF PHASE 1	END OF PHASE 1
RAMP MC CONCRETE PAVEMENT CONCURRENT WITH SINGLE LANE CLOSURE	90 DAYS	$1,500	START OF PHASE 1	END OF PHASE 5
RAMP MC FINAL TIE-IN	45 DAYS	$1,500	START OF PHASE 5	END OF PHASE 5
RAMP MD CONCRETE PAVEMENT AND FINAL TIE-IN	45 DAYS	$1,500	START OF PHASE 3	END OF PHASE 3
RAMP ME CONCRETE PAVEMENT	45 DAYS	$1,500	START OF PHASE 1	END OF PHASE 3
RAMP ME FINAL TIE-IN	45 DAYS	$1,500	START OF PHASE 3	END OF PHASE 3
RAMP MF CONCRETE PAVEMENT AND FINAL TIE-IN	45 DAYS	$1,500	START OF PHASE 5	END OF PHASE 5
RAMP W1 CONCRETE PAVEMENT	45 DAYS	$1,500	START OF PHASE 1	END OF PHASE 5
RAMP W1 FINAL TIE-IN	45 DAYS	$1,500	START OF PHASE 5	END OF PHASE 5
RAMP W2 CONCRETE PAVEMENT AND FINAL TIE-IN	60 DAYS	$1,500	START OF PHASE 3	END OF PHASE 3
RAMP W1A CONCRETE PAVEMENT	45 DAYS	$1,500	START OF PHASE 1	END OF PHASE 5
RAMP W1A FINAL TIE-IN	45 DAYS	$1,500	START OF PHASE 5	END OF PHASE 5
RAMP W2A CONCRETE PAVEMENT AND FINAL TIE-IN	45 DAYS	$1,500	START OF PHASE 3	END OF PHASE 3
RAMP 140-3 CONCRETE PAVEMENT, STRUCTURE AND FINAL TIE-IN	90 DAYS	$1,500	START OF PHASE 5	END OF PHASE 5
RAMP 140-4 CONCRETE PAVEMENT	60 DAYS	$1,500	START OF PHASE 1	END OF PHASE 3
RAMP 140-4 STRUCTURE AND FINAL TIE-IN	90 DAYS	$1,500	START OF PHASE 3	END OF PHASE 3
RAMP 117-5 CONCRETE PAVEMENT	45 DAYS	$5,000	START OF PHASE 1	END OF PHASE 5
RAMP 117-5 FINAL TIE-IN	45 DAYS	$5,000	START OF PHASE 5	END OF PHASE 5
RAMP 117-7 CONCRETE PAVEMENT AND FINAL TIE-IN	60 DAYS	$5,000	START OF PHASE 3	END OF PHASE 3
RAMP 117-8 CONCRETE PAVEMENT AND FINAL TIE-IN	45 DAYS	$5,000	START OF PHASE 3	END OF PHASE 3
RAMP 117-9 CONCRETE PAVEMENT	60 DAYS	$5,000	START OF PHASE 1	END OF PHASE 3
RAMP 117-9 FINAL TIE-IN	45 DAYS	$5,000	START OF PHASE 3	END OF PHASE 3
RAMP 117-11 CONCRETE PAVEMENT AND FINAL TIE-IN	60 DAYS	$5,000	START OF PHASE 5	END OF PHASE 5
RAMP W13 CONCRETE PAVEMENT	60 DAYS	$1,500	START OF PHASE 1	END OF PHASE 1
RAMP W13 FINAL TIE-IN	45 DAYS	$1,500	START OF PHASE 5	END OF PHASE 5
RAMP W14 CONCRETE PAVEMENT AND FINAL TIE-IN	60 DAYS	$1,500	START OF PHASE 3	END OF PHASE 3

R5

R3

R5

NOTICE OF CLOSURE SIGNS

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE PCMS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURE	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< =12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE PCMS SHALL DISPLAY THE NAME OF THE ROAD OR RAMP AND THE DATE OF THE CLOSURE IN MMM-DD FORMAT.

ROAD CLOSED SIGN

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 SHOWN ON MAINTENANCE OF TRAFFIC PLANS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

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

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0056A TOTAL P.1587

CUY-90-6.69

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DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER	COUNTY & ROUTE	DIRECTION
WZ-65253	CUY-90	EB
WZ-65253	CUY-90	WB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WORK ZONE SPEED ZONES (WZSZS) (CONTINUED)

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH) FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

ORIGINAL POSTED SPEED LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY
180 SIGN MNTH

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

(THE SIGNS ON THE MAINLINE SHALL BE DUAL MOUNTED UNLESS NOT PHYSICALLY POSSIBLE. THE FIRST SIGN SHALL BE PLACED BETWEEN THE ROAD WORK AHEAD (W20-1) SIGN AND THE NEXT SIGN IN THE SEQUENCE. SIGNS SHALL BE ERECTED ON EACH ENTRANCE RAMP AND EVERY 2 MILES THROUGH THE CONSTRUCTION WORK LIMITS. SIGNS ON THE MAINLINE SHALL BE R11-H5A-48. SIGNS USED ON THE RAMPS SHALL BE R11-H5A-24. R11-H5A-24 SIGNS MAY BE USED IN THE MEDIAN IN LIEU OF R11-H5A-48 SIGNS IF IT IS NOT PHYSICALLY POSSIBLE TO PROVIDE R11-H5A-48 SIGNS IN THE MEDIAN.)

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A) (CON'T)

THE R11-H5A-48 SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF C&MS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 17 EACH

WORK ZONE INCREASED PENALTIES SIGNS WILL BE PLACED AT THE FOLLOWING LOCATIONS:

W20-H15 SIGNS

THE SIZE OF LETTERING ON W20-H15 "EXIT CLOSED" SIGNS OVERLAID ON EXISTING OR PROPOSED OVERHEAD GUIDE SIGNS SHALL BE A MINIMUM HEIGHT OF 12" C.

ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 50-INCH PORTABLE BARRIER AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS, SEE SCD RM-4.1.

PORTABLE STEEL BARRIER IS AN APPROVED ALTERNATIVE TO PORTABLE CONCRETE BARRIER. FOR INFORMATION ON APPROVED VENDORS, SEE THE APPROVED PRODUCTS LIST MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING.

PORTABLE BARRIER, 32 INCHES HIGH WITH AN 18-INCH MINIMUM HEIGHT GLARE SCREEN MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE SCREENS PROVIDED ON THE APPROVED LIST, AVAILABLE ON THE OFFICE OF ROADWAY ENGINEERING WEBSITE.

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OFF ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE.

THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32-INCH PORTABLE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER.

FOR DIRECTIONS ON HOW TO INSTALL THE GLARE SCREEN AND THE BARRIER, SEE THE MANUFACTURER'S INSTRUCTIONS.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN.

ITEM 622 PORTABLE BARRIER, ANCHORED, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS ITEM 622 AND STANDARD CONSTRUCTION DRAWING RM-4.2, THE BARRIER USED FOR THIS ITEM SHALL BE ABLE TO ACCOMMODATE A MINIMUM OF 1-1/2" OFFSET FROM THE TOE OF BARRIER TO THE WORK ZONE DROP OFF.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC	1008 CU. YD.
EMBANKMENT FOR MAINTAINING TRAFFIC	2768 CU. YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD.

THE WORK ABOVE SHALL BE INCIDENTAL TO THE LUMP SUM FOR ITEM 615, ROADS FOR MAINTAINING TRAFFIC.

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER BER
REVIEWER VDK 08/09/23
PROJECT ID 76779
SHEET P.0057 TOTAL P.1587

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DRAINAGE CONDUIT AND PHASING DETAILS

START STR REF NO	LENGTH (FT)	SIZE (IN)	TYPE	SLOPE (%)	START STR REF NO	START INVERT ELEV	START DEPTH TO INVERT	STOP STR REF NO	STOP INVERT ELEV	STOP DEPTH TO INVERT	EARLIEST MOT START PHASE	COMPLETED BY END OF PHASE	NOTES
OUTFALL AH													
D4	19	12	TYPE B	1.01	D4	694.91	4.1	D3A	694.72	4.2	1	1	LATERAL
OUTFALL B													
D79A	311	24	TYPE C	0.42	D79A	667.92	5.4	D79	666.58	4.5	3	3	TRUNKLINE (311' PROPOSED PIPE)
D79	281	36	TYPE C	0.50	D79	663.42	7.7	D75	662.02	17.6	3	3	TRUNKLINE
D75	170	36	TYPE C	0.50	D75	662.02	17.6	D71	661.17	20.1	3	3	TRUNKLINE
D71	228	36	TYPE C	0.50	D71	661.17	20.1	D62	660.03	23.6	3	3	TRUNKLINE
D62	58	36	TYPE B	0.62	D62	660.03	23.6	D57	659.67	26.7	1	1	TRUNKLINE
D57	254	36	TYPE C	0.59	D57	659.67	26.7	D50	658.16	21.5	1	1	TRUNKLINE
D50	272	42	TYPE C	0.50	D50	657.66	22.0	D21	656.30	25.7	1	1	TRUNKLINE
D21	221	42	TYPE C	0.50	D21	656.30	25.7	D19	655.20	27.8	1	1	TRUNKLINE
D19	72	42	TYPE B	0.50	D19	655.20	27.8	D18	654.84	25.1	3	3	TRUNKLINE
D18	146	42	TYPE B	0.50	D18	654.84	25.1	D17	654.11	26.8	3	3	TRUNKLINE
D17	29	42	TYPE B	0.48	D17	654.11	26.8	D14	653.97	27.5	3	3	TRUNKLINE
D14	56	60	TYPE B	0.50	D14	652.47	29.0	D11	652.19	27.9	1	1	TRUNKLINE
D11	416	60	TYPE B	0.50	D11	652.19	27.9	D6	650.11	37.4	1	1	TRUNKLINE
D88	73	18	TYPE B	0.50	D88	665.63	5.5	D83	665.27	7.1	4	5	LATERAL
D86	82	15	TYPE B	0.50	D86	667.31	5.2	D83	666.90	5.5	2	2	LATERAL
D85	82	15	TYPE B	0.50	D85	667.31	5.2	D83	666.90	5.5	2	2	LATERAL
D83	67	24	TYPE B	0.51	D83	664.76	7.6	D79	664.42	6.7	2	2	LATERAL
D78	16	15	TYPE C	1.25	D78	669.40	3.3	D75	669.20	10.4	3	3	LATERAL
D77	86	15	TYPE C	10.06	D77	685.00	11.4	D75	676.40	3.3	3	3	LATERAL
D74	11	15	TYPE C	12.66	D74	691.06	3.3	D73	689.73	3.3	1	1	LATERAL
D73	82	15	TYPE B	0.67	D73	686.73	6.3	D72	686.18	3.3	1	1	LATERAL
D72	40	15	TYPE C	7.54	D72	681.09	8.3	D71	678.06	3.3	3	3	LATERAL
D67	27	15	TYPE C	0.48	D67	671.44	3.3	D71	671.31	10.0	3	3	LATERAL
D69	9	15	TYPE B	0.57	D69	672.57	3.3	D65	672.52	3.5	5	5	LATERAL
D65	64	15	TYPE B	0.50	D65	669.81	6.3	D64	669.49	5.6	2	5	LATERAL
D66	83	15	TYPE B	0.49	D66	670.10	5.2	D64	669.69	5.4	2	2	LATERAL
D64	79	15	TYPE B	1.00	D64	669.49	5.6	D62	668.70	14.9	2	2	LATERAL
D55	10	15	TYPE C	1.43	D55	671.41	5.3	D51	671.27	5.0	1	1	LATERAL
D54	46	15	TYPE C	0.96	D54	671.71	5.3	D51	671.27	5.0	1	1	LATERAL
D53	40	15	TYPE C	0.86	D53	671.61	5.2	D51	671.27	5.0	1	1	LATERAL
D51	10	15	TYPE C	1.05	D51	671.27	5.0	D50	671.17	8.5	1	1	LATERAL
D49	98	15	TYPE B	3.32	D49	686.93	5.3	D48	683.67	5.3	5	5	LATERAL
D48	66	15	TYPE B	2.98	D48	683.67	5.3	D47	681.70	4.3	5	5	LATERAL
D47	298	15	TYPE B	2.63	D47	681.70	4.3	D28	673.87	5.3	5	5	LATERAL
D38	6	12	TYPE B	0.50	D38	672.76	5.7	D31	672.73	5.1	5	5	LATERAL
D33	7	12	TYPE B	0.57	D33	672.93	5.8	D32	672.89	5.3	5	5	LATERAL
D32	50	15	TYPE B	0.50	D32	672.64	5.6	D31	672.39	5.5	5	5	LATERAL
D30	7	12	TYPE B	0.72	D30	676.18	2.8	D29	676.13	2.9	5	5	LATERAL
D29	51	15	TYPE B	0.75	D29	672.77	6.2	D31	672.39	5.5	5	5	LATERAL
D31	53	18	TYPE B	0.49	D31	672.14	5.7	D28	671.88	7.2	5	5	LATERAL
D28	75	24	TYPE B	0.49	D28	671.38	7.7	D26	671.01	7.0	4	5	LATERAL
D27	75	15	TYPE B	0.49	D27	673.01	5.2	D26	672.64	5.4	2	2	LATERAL
D26	93	24	TYPE B	0.50	D26	671.00	7.0	D25	670.54	7.9	2	3	LATERAL
D25	8	24	TYPE C	0.51	D25	670.53	7.9	D22	670.49	7.5	1	3	LATERAL
D24	10	15	TYPE C	0.81	D24	673.83	5.2	D23	673.75	5.0	1	1	LATERAL
D23	108	15	TYPE C	0.50	D23	673.75	5.0	D22	673.21	4.8	1	1	LATERAL
D22	13	24	TYPE C	0.47	D22	670.49	7.5	D21	670.43	11.5	1	2	LATERAL
D20	45	15	TYPE B	0.48	D20	674.70	5.2	D19	674.48	8.5	3	3	LATERAL
D16	28	15	TYPE B	0.61	D16	676.78	3.3	D14	676.61	4.9	1	1	LATERAL
D13	94	15	TYPE B	0.50	D13	675.07	6.3	D12	674.60	7.3	4	5	LATERAL
D12	79	15	TYPE B	1.74	D12	674.60	7.3	D11	673.22	6.9	2	3	LATERAL
D10	84	18	TYPE B	0.50	D10	683.33	6.5	D9	682.91	8.2	4	5	LATERAL

NOTE: FOR INFORMATION ON REMOVALS, SEE THE DRAINAGE SUBSUMMARIES

PROPOSED DRAINAGE PHASING

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 12-07-24

PROJECT ID
76779

SHEET P.0065A TOTAL 1587

CUY-90-6.69

MODEL: 76779_MQ101 PAPERSIZE: 34x22 (in.) DATE: 4/7/2025 TIME: 9:48:48 AM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\MOT\Sheets\76779_MQ100.dgn

DRAINAGE CONDUIT AND PHASING DETAILS

START STR REF NO	LENGTH (FT)	SIZE (IN)	TYPE	SLOPE (%)	START STR REF NO	START INVERT ELEV	START DEPTH TO INVERT	STOP STR REF NO	STOP INVERT ELEV	STOP DEPTH TO INVERT	EARLIEST MOT START PHASE	COMPLETED BY END OF PHASE	NOTES
OUTFALL D (CONTINUED)													
D294	166	15	TYPE B	0.50	D294	715.83	5.2	D293	715.00	5.3	5	5	LATERAL
D293	158	15	TYPE B	0.50	D293	715.00	5.3	D290	714.21	5.3	5	5	LATERAL
D290	185	15	TYPE B	0.79	D290	714.21	5.3	D289	712.75	5.8	5	5	LATERAL
D289	90	18	TYPE B	0.76	D289	712.50	6.0	D285	711.82	6.5	5	5	LATERAL
D285	90	24	TYPE B	0.25	D285	711.32	7.0	D282	711.09	6.6	4	5	LATERAL
D307	267	15	TYPE B	0.84	D307	718.57	5.2	D306	716.32	5.3	3	3	LATERAL
D306	190	15	TYPE B	0.60	D306	716.32	5.3	D305	715.18	5.2	3	3	LATERAL
D305	184	15	TYPE B	0.62	D305	715.18	5.2	D304	714.04	5.3	3	3	LATERAL
D304	83	15	TYPE B	0.68	D304	714.04	5.3	D302	713.47	5.6	3	3	LATERAL
D303	50	15	TYPE B	0.83	D303	713.93	5.3	D302	713.51	5.6	3	3	LATERAL
D302	106	18	TYPE B	0.42	D302	712.59	6.5	D301	712.15	3.5	2	3	LATERAL
D301	24	18	TYPE C	1.13	D301	712.15	3.5	D300	711.88	6.3	1	1	LATERAL
D312	24	18	TYPE C	0.50	D312	712.48	3.5	D311	712.36	6.4	1	1	LATERAL
D317	31	24	TYPE C	0.35	D317	718.30	4.0	D316	718.19	7.1	1	1	LATERAL
D321	57	15	TYPE F	SEE NOTE	D321	745.24	4.6	D320	728.32	3.3	3	3	LATERAL (SEE STORM SEWER PROFILES FOR SLOPE INFORMATION)
D320	158	18	TYPE B	0.98	D320	723.40	8.2	D319	721.85	7.1	2	3	LATERAL
D333	215	15	TYPE B	3.14	D333	751.32	5.7	D331	744.58	5.4	5	5	LATERAL
D331	138	15	TYPE B	1.52	D331	744.58	5.4	D330	742.48	5.3	5	5	LATERAL
D330	82	15	TYPE B	0.41	D330	742.48	5.3	D329	742.14	5.3	5	5	LATERAL
D329	94	15	TYPE B	0.36	D329	742.14	5.3	D328	741.80	5.7	5	5	LATERAL
D328	61	15	TYPE C	8.20	D328	741.80	5.7	D325	736.80	3.2	5	5	LATERAL
D326	263	15	TYPE B	3.10	D326	742.96	5.3	D325	734.80	5.2	5	5	LATERAL
D325	284	15	TYPE B	3.07	D325	734.80	5.2	D323	726.08	5.3	5	5	LATERAL
D323	90	18	TYPE B	0.97	D323	724.83	6.5	D319	723.96	5.0	4	5	LATERAL
D345	78	15	TYPE B	1.18	D345	747.17	5.5	D344	746.25	5.3	3	3	LATERAL
D344	40	15	TYPE B	0.50	D344	746.25	5.3	D341	746.05	5.3	3	3	LATERAL
D343	19	15	TYPE C	3.19	D343	748.67	3.3	D341	748.05	3.3	3	3	LATERAL
D342	37	15	TYPE B	0.56	D342	746.26	5.3	D341	746.05	5.3	3	3	LATERAL
D341	30	15	TYPE B	2.22	D341	745.05	6.3	D340	744.39	7.3	3	3	LATERAL
D340	108	15	TYPE C	2.20	D340	744.39	7.3	D337	742.01	5.3	3	3	LATERAL
D339	28	15	TYPE C	15.15	D339	747.98	4.2	D337	743.81	3.5	3	3	LATERAL
D337	123	15	TYPE B	2.41	D337	741.01	6.3	D336	738.05	3.3	2	3	LATERAL
OUTFALL E													
D374	141	36	TYPE C	0.25	D374	743.64	16.2	D370	743.29	23.7	3	3	TRUNKLINE
D370	184	36	TYPE C	0.25	D370	743.29	23.7	D365	742.83	37.8	3	3	TRUNKLINE
D365	92	36	TYPE B	0.25	D365	742.83	37.8	D359	742.60	38.9	1	1	TRUNKLINE
D359	143	42	TYPE B	0.25	D359	742.10	39.4	D358	741.74	34.6	1	1	TRUNKLINE
D358	131	42	TYPE B	0.30	D358	741.49	34.8	D357	741.11	12.0	5	5	TRUNKLINE (66' PROPOSED PIPE)
D400	136	18	TYPE B	0.70	D400	752.32	3.5	D399	751.37	7.9	2	3	LATERAL
D399	163	18	TYPE B	0.85	D399	751.37	7.9	D398	749.98	13.9	3	3	LATERAL
D398	43	18	TYPE C	1.16	D398	749.98	13.9	D388	749.48	5.8	3	3	LATERAL
D384	258	15	TYPE B	0.40	D384	764.65	5.3	D383	763.62	11.3	3	3	LATERAL
D383	70	15	TYPE C	6.02	D383	757.50	17.4	D378	753.30	3.3	3	3	LATERAL
D376	55	15	TYPE B	0.69	D376	752.58	5.3	D374	752.20	7.6	3	3	LATERAL
D371	6	15	TYPE C	0.62	D371	760.58	4.5	D370	760.54	6.4	3	3	LATERAL
D368	192	15	TYPE C	0.52	D368	773.40	5.2	D367	772.40	7.5	3	3	LATERAL
D367	140	15	TYPE C	0.36	D367	772.40	7.5	D365	771.89	8.8	3	3	LATERAL
D366	18	15	TYPE C	0.57	D366	776.07	5.1	D365	775.97	4.7	3	3	LATERAL
D361	168	18	TYPE C	2.11	D361	775.61	3.8	D360	772.08	9.4	1	1	LATERAL
D360	165	18	TYPE C	2.25	D360	772.08	9.4	D359	768.37	13.1	1	1	LATERAL
OUTFALL F													
D438	91	15	TYPE B	1.00	D438	775.67	3.2	D437	774.76	6.6	4	5	LATERAL
D437	73	15	TYPE F	SEE NOTE	D437	774.76	6.6	D436	749.19	3.3	5	5	LATERAL (SEE STORM SEWER PROFILES FOR SLOPE INFORMATION)

NOTE: FOR INFORMATION ON REMOVALS, SEE THE DRAINAGE SUBSUMMARIES

PROPOSED DRAINAGE PHASING

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 12-07-24

PROJECT ID
76779

SHEET P.0065E TOTAL 1587

CUY-90-6.69

MODEL: 76779_MQ105 PAPERSIZE: 34x22 (in.) DATE: 4/7/2025 TIME: 9:48:49 AM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\MOT\Sheets\76779_MQ100.dgn

DRAINAGE CONDUIT AND PHASING DETAILS

START STR REF NO	LENGTH (FT)	SIZE (IN)	TYPE	SLOPE (%)	START STR REF NO	START INVERT ELEV	START DEPTH TO INVERT	STOP STR REF NO	STOP INVERT ELEV	STOP DEPTH TO INVERT	EARLIEST MOT START PHASE	COMPLETED BY END OF PHASE	NOTES
OUTFALL M (CONTINUED)													
D828	77	24	TYPE B	0.25	D828	715.28	7.1	D825	715.09	6.3	4	5	LATERAL
D826	11	15	TYPE C	2.03	D826	717.31	3.1	D825	717.09	4.3	1	1	LATERAL
D823	125	15	TYPE B	0.54	D823	716.64	4.9	D822A	715.96	4.9	5	5	LATERAL
D822A	125	15	TYPE B	0.54	D822A	715.96	4.9	D822	715.29	4.8	5	5	LATERAL
D822	124	15	TYPE B	1.01	D822	715.29	4.8	D821	714.04	5.3	5	5	LATERAL
D821	97	15	TYPE B	1.32	D821	714.04	5.3	D814	712.76	5.3	4	5	LATERAL
D819	220	15	TYPE B	0.67	D819	718.45	5.0	D817	716.97	5.0	3	3	LATERAL
D817	211	15	TYPE B	0.71	D817	716.97	5.0	D816	715.46	5.0	3	3	LATERAL
D816	135	15	TYPE B	1.39	D816	715.46	5.0	D815	713.58	5.9	3	3	LATERAL
D815	113	24	TYPE B	0.31	D815	712.83	6.7	D814	712.48	5.5	2	3	LATERAL
D812	11	15	TYPE C	1.02	D812	712.48	2.9	D811	712.37	4.2	1	1	LATERAL
D809	114	15	TYPE B	3.04	D809	714.07	3.0	D808	710.62	4.6	2	3	LATERAL
D807	114	15	TYPE B	3.72	D807	713.87	3.0	D806	709.64	4.9	2	3	LATERAL
D803	90	15	TYPE B	4.39	D803	710.84	4.2	D800	706.89	8.0	4	5	LATERAL (84' PROPOSED PIPE)
D802	103	15	TYPE B	4.09	D802	714.07	3.0	D801	709.85	3.5	2	3	LATERAL
D801	15	15	TYPE C	3.49	D801	709.85	3.5	D800	709.33	5.5	2	2	LATERAL
D799	93	15	TYPE B	2.90	D799	711.89	2.7	D798	707.94	6.7	4	5	LATERAL (87' PROPOSED PIPE)
D796	92	15	TYPE B	2.02	D796	710.59	4.1	D795	708.35	7.4	4	5	LATERAL (92' PROPOSED PIPE)
D793	190	15	TYPE B	1.50	D793	719.25	5.7	D792	716.40	4.7	3	3	LATERAL
D792	119	15	TYPE B	3.10	D792	715.40	5.7	D785	711.70	5.5	2	3	LATERAL
D790	177	15	TYPE B	1.59	D790	719.96	5.4	D789	717.15	5.5	5	5	LATERAL
D789	150	15	TYPE B	0.75	D789	712.40	10.3	D788	711.28	8.4	5	5	LATERAL
D788	115	15	TYPE B	1.25	D788	711.28	8.4	D786	709.84	7.7	5	5	LATERAL
D786	110	15	TYPE B	2.00	D786	709.84	7.7	D785	707.64	9.6	4	5	LATERAL
D780	14	15	TYPE C	1.56	D780	720.50	3.1	D779	720.29	4.9	1	1	LATERAL
D776	282	15	TYPE C	1.55	D776	724.02	5.3	D770	719.64	3.8	1	1	LATERAL
D773	47	15	TYPE B	0.60	D773	715.38	6.5	D770	715.10	8.3	1	1	LATERAL
D772	41	15	TYPE C	5.05	D772	722.24	12.3	D770	720.19	3.3	1	1	LATERAL
D765	11	15	TYPE C	0.80	D765	708.41	5.1	D764	708.32	4.9	1	1	LATERAL
D764	21	15	TYPE C	1.75	D764	708.32	4.9	D755	707.95	4.2	1	1	LATERAL
D762	30	15	TYPE B	1.18	D762	707.39	5.3	D761	707.04	5.8	1	1	LATERAL
D761	29	15	TYPE B	0.62	D761	706.56	6.3	D760	706.38	6.7	1	1	LATERAL
D760	16	15	TYPE C	0.58	D760	706.38	6.7	D755	706.29	5.9	1	1	LATERAL

NOTE: FOR INFORMATION ON REMOVALS, SEE THE DRAINAGE SUBSUMMARIES

PROPOSED DRAINAGE PHASING

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 12-07-24

PROJECT ID
76779

SHEET P.0065H TOTAL 1587

CUY-90-6.69

MODEL: 76779_MQ108 PAPERSIZE: 34x22 (in.) DATE: 4/7/2025 TIME: 9:48:50 AM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\MOT\Sheets\76779_MQ100.dgn

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
48	66	346	347								01/IMS/04	02/IMS/13	03/IMS/13						
																		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	
10		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	
		4,558									4,558			611	05900	4,558	FT	15" CONDUIT, TYPE B	
	563										563			611	05901	563	FT	15" CONDUIT, TYPE B, AS PER PLAN	P.0063
		2,098									2,098			611	06100	2,098	FT	15" CONDUIT, TYPE C	
	498										498			611	06101	498	FT	15" CONDUIT, TYPE C, AS PER PLAN	P.0063
200		73									273			611	06700	273	FT	15" CONDUIT, TYPE F	
		420									420			611	07400	420	FT	18" CONDUIT, TYPE B	
	60										60			611	07401	60	FT	18" CONDUIT, TYPE B, AS PER PLAN	P.0063
		40									40			611	07600	40	FT	18" CONDUIT, TYPE C	
	19										19			611	08901	19	FT	21" CONDUIT, TYPE B, AS PER PLAN	P.0063
	225										225			611	09101	225	FT	21" CONDUIT, TYPE C, AS PER PLAN	P.0063
		194									194			611	10400	194	FT	24" CONDUIT, TYPE B	
	26										26			611	10401	26	FT	24" CONDUIT, TYPE B, AS PER PLAN	P.0063
		1,315									1,315			611	10600	1,315	FT	24" CONDUIT, TYPE C	
	51										51			611	10601	51	FT	24" CONDUIT, TYPE C, AS PER PLAN	P.0063
	31										31			611	12101	31	FT	27" CONDUIT, TYPE C, AS PER PLAN	P.0063
		244									244			611	13600	244	FT	30" CONDUIT, TYPE C	
	147										147			611	13601	147	FT	30" CONDUIT, TYPE C, AS PER PLAN	P.0063
		771									771			611	16600	771	FT	36" CONDUIT, TYPE C	
	69										69			611	16601	69	FT	36" CONDUIT, TYPE C, AS PER PLAN	P.0063
		101									101			611	19400	101	FT	42" CONDUIT, TYPE B	
		493									493			611	19600	493	FT	42" CONDUIT, TYPE C	
	22										22			611	19601	22	FT	42" CONDUIT, TYPE C, AS PER PLAN	P.0063
		2,514									2,514			611	22600	2,514	FT	54" CONDUIT, TYPE C	
	65										65			611	22601	65	FT	54" CONDUIT, TYPE C, AS PER PLAN	P.0063
		472									472			611	23800	472	FT	60" CONDUIT, TYPE B	
	50										50			611	25401	50	LF	66" CONDUIT, TYPE C, AS PER PLAN	P.0063
		2,243									2,243			611	96600	2,243	FT	CONDUIT, BORED OR JACKED, 15", TYPE B	
		210									210			611	96600	210	FT	CONDUIT, BORED OR JACKED, 18", TYPE B	
		705									705			611	96600	705	FT	CONDUIT, BORED OR JACKED, 24", TYPE B	
		58									58			611	96600	58	FT	CONDUIT, BORED OR JACKED, 36", TYPE B	
		170									170			611	96600	170	FT	CONDUIT, BORED OR JACKED, 36", TYPE C	
		146									146			611	96600	146	FT	CONDUIT, BORED OR JACKED, 42", TYPE B	
		310									310			611	96600	310	FT	CONDUIT, BORED OR JACKED, 54", TYPE C	
		1,665									1,665			611	96601	1,665	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 15" TYPE B	P.0049
		761									761			611	96601	761	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 18" TYPE B	P.0049
		1,043									1,043			611	96601	1,043	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 24" TYPE B	P.0049
		177									177			611	96601	177	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 30" TYPE B	P.0049
		256									256			611	96601	256	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 30" TYPE C	P.0049
		92									92			611	96601	92	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 36" TYPE B	P.0049
		143									143			611	96601	143	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42" TYPE B	P.0049

GENERAL SUMMARY

CUY-90-6.69

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 4/7/2025 TIME: 10:23:21 AM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\20\20000\20276779\400-Engineering\Roadway\Sheets\76779_GG001.dgn

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0318 TOTAL P.1587

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
66	346	347									01/IMS/04	02/IMS/13	03/IMS/13						
																		DRAINAGE CONT.	
	211										211			611	96601	211	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42" TYPE C	P.0049
	258										258			611	96601	258	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48" TYPE B	P.0049
	181										181			611	96601	181	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48" TYPE C	P.0049
	147										147			611	96601	147	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 54" TYPE B	P.0049
	155										155			611	96601	155	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 60" TYPE B	P.0049
	703										703			611	96601	703	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 66" TYPE B	P.0049
	24										24			611	97400	24	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE B, ROCK CUT	P.0049
		36									36			611	97400	36	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	P.0049
		8,918									8,918			611	97400	8,918	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,528									1,528			611	97400	1,528	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
		1,762									1,762			611	97400	1,762	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	P.0049
		993									993			611	97400	993	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	P.0049
		564									564			611	97400	564	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	P.0049
		229									229			611	97400	229	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	P.0049
		6									6			611	97400	6	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,530									1,530			611	97400	1,530	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
		788									788			611	97400	788	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT	P.0049
		2,310									2,310			611	97400	2,310	FT	CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	P.0049
		380									380			611	97400	380	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT	P.0049
		399									399			611	97400	399	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT	P.0049
		863									863			611	97400	863	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	P.0049
		209									209			611	97400	209	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE C, ROCK CUT	P.0049
		1,630									1,630			611	97400	1,630	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE B, ROCK CUT	P.0049
		174									174			611	97400	174	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT	P.0049
		42									42			611	98150	42	EACH	CATCH BASIN, NO. 3	
		1									1			611	98151	1	EACH	CATCH BASIN, NO. 3, AS PER PLAN	P.0048
		16									16			611	98180	16	EACH	CATCH BASIN, NO. 3A	
		65									65			611	98300	65	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
		1									1			611	98811	1	EACH	INLET, NO. 3C, AS PER PLAN	P.0048A
		7									7			611	98820	7	EACH	INLET, NO. 3D	
		47									47			611	98840	47	EACH	INLET, NO. 2-A-6	
1											1			611	98841	1	EACH	INLET, NO. 2-A-6, AS PER PLAN	P.0063
		35									35			611	98850	35	EACH	INLET, NO. 2-A-8	
		24									24			611	98860	24	EACH	INLET, NO. 2-A-10	
		10									10			611	98870	10	EACH	INLET, NO. 2-A-12	
		8									8			611	98880	8	EACH	INLET, NO. 2-A-14	
		1									1			611	98890	1	EACH	INLET, NO. 2-A-16	
		1									1			611	99000	1	EACH	INLET, NO. 2-A-18	
		16									16			611	99100	16	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
		7									7			611	99110	7	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
		90									90			611	99574	90	EACH	MANHOLE, NO. 3	
		24									24			611	99575	24	EACH	MANHOLE, NO. 3, AS PER PLAN	P.0048A
		1									1			611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN (2)	P.0048
4											4			611	99575	4	EACH	MANHOLE, NO. 3, AS PER PLAN (3)	P.0063
		2									2			611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE	
		1									1			611	99690	1	EACH	MANHOLE, MISC.: MH-3 MODIFIED	P.0049

GENERAL SUMMARY

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0319 TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 4/7/2025 TIME: 10:23:23 AM USER: adtaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Roadway\Sheets\76779_GG001.dgn

ESTIMATED QUANTITIES

Sheet 348	Sheet 349	Sheet 350	Sheet 351	Sheet 352	Sheet 353	Sheet 354	Sheet 356	Sheet 357	Sheet 358	Sheet 359	Sheet 359A	Sheet 368	ITEM	EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
2328	3666	2266											202	35100	8,260	FT	PIPE REMOVED, 24" AND UNDER	
2157	4276	3067											202	35200	9,500	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	
761	1950	2322											202	70000	5,033	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 15"	P.0048
208	411	331											202	70000	950	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 18"	P.0048
217	301	388											202	70000	906	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 21"	P.0048
321	68	669											202	70000	1,058	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 24"	P.0048
247													202	70000	247	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 30"	P.0048
	300	275											202	70000	575	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 36"	P.0048
73	310	287											202	70000	670	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 42"	P.0048
		773											202	70000	773	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 48"	P.0048
738	643	897											202	70000	2,278	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 54"	P.0048
1701		1043											202	70000	2,744	FT	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 60"	P.0048
				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.0048
												5889	611	00510	5,889	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
												4	611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	
			46	11						11			611	04400	68	FT	12" CONDUIT, TYPE B	
										68			611	04600	68	FT	12" CONDUIT, TYPE C	
			976	73				1534	985	990			611	05900	4,558	FT	15" CONDUIT, TYPE B	
			286	226			615	24	595	352			611	06100	2,098	FT	15" CONDUIT, TYPE C	
							73						611	06700	73	FT	15" CONDUIT, TYPE F	
								218	202				611	07400	420	FT	18" CONDUIT, TYPE B	
							6			34			611	07600	40	FT	18" CONDUIT, TYPE C	
				194									611	10400	194	FT	24" CONDUIT, TYPE B	
			332				966	17					611	10600	1,315	FT	24" CONDUIT, TYPE C	
							244						611	13600	244	FT	30" CONDUIT, TYPE C	
			763	8									611	16600	771	FT	36" CONDUIT, TYPE C	
			101										611	19400	101	FT	42" CONDUIT, TYPE B	
			493										611	19600	493	FT	42" CONDUIT, TYPE C	
							640	1874					611	22600	2,514	FT	54" CONDUIT, TYPE C	
			472										611	23800	472	FT	60" CONDUIT, TYPE B	
			143	173	122	65	171	912	325	332			611	96600	2,243	FT	CONDUIT, BORED OR JACKED, 15", TYPE B	
			126	84									611	96600	210	FT	CONDUIT, BORED OR JACKED, 18", TYPE B	
			235	74				206	190				611	96600	705	FT	CONDUIT, BORED OR JACKED, 24", TYPE B	
			58										611	96600	58	FT	CONDUIT, BORED OR JACKED, 36", TYPE B	
			170										611	96600	170	FT	CONDUIT, BORED OR JACKED, 36", TYPE C	
			146										611	96600	146	FT	CONDUIT, BORED OR JACKED, 42", TYPE B	
								310					611	96600	310	FT	CONDUIT, BORED OR JACKED, 54", TYPE C	
						12					12		611	97400	24	FT	CONDUIT, MISC : 12" CONDUIT, TYPE B, ROCK CUT	P.0049
											1665		611	96601	1,665	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 15", TYPE B	P.0049
											761		611	96601	761	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 18", TYPE B	P.0049
											1043		611	96601	1,043	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 24", TYPE B	P.0049
											177		611	96601	177	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 30", TYPE B	P.0049
											256		611	96601	256	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 30", TYPE C	P.0049
											92		611	96601	92	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 36", TYPE B	P.0049
											143		611	96601	143	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42", TYPE B	P.0049
											211		611	96601	211	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42", TYPE C	P.0049
											258		611	96601	258	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48", TYPE B	P.0049
											181		611	96601	181	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48", TYPE C	P.0049
											147		611	96601	147	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 54", TYPE B	P.0049
											155		611	96601	155	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 60", TYPE B	P.0049
											703		611	96601	703	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 66", TYPE B	P.0049

DRAINAGE SUB-SUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0346 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/7/2025 TIME: 10:28:10 AM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DS001.dgn

ESTIMATED QUANTITIES

Sheet 351	Sheet 352	Sheet 353	Sheet 354	Sheet 355	Sheet 356	Sheet 357	Sheet 358	Sheet 359	Sheet 359A	Sheet 370	ITEM	EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
			6	19					11		611	97400	36	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	P.0049
	53	814	2550	3637	350	276	1179	59			611	97400	8,918	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	P.0049
	84	230	41	61	469	13	551	79			611	97400	1,528	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	P.0049
		28		57							611	97400	85	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	P.0049
		91	450	1058	163						611	97400	1,762	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	P.0049
		556		61	376						611	97400	993	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	P.0049
	69	16	15	194			270				611	97400	564	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	P.0049
		198		31							611	97400	229	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	P.0049
			6								611	97400	6	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT	P.0049
	109	256			1165						611	97400	1,530	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT	P.0049
			248								611	97400	248	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE B, ROCK CUT	P.0049
					332						611	97400	332	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE C, ROCK CUT	P.0049
		196			66						611	97400	262	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT	P.0049
		196			592						611	97400	788	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT	P.0049
	1958	352									611	97400	2,310	FT	CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	P.0049
	380										611	97400	380	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT	P.0049
					289	110					611	97400	399	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT	P.0049
	854					9					611	97400	863	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	P.0049
						209					611	97400	209	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE C, ROCK CUT	P.0049
	1630										611	97400	1,630	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE B, ROCK CUT	P.0049
	174										611	97400	174	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT	P.0049
5	4	2	2	2	3	3	6	5	10		611	98150	42	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		1		611	98180	16	EACH	CATCH BASIN, NO. 3A	
10	9	9	3	4	4	5	9	5	7		611	98300	65	EACH	CATCH BASIN, NO. 5	
					1						611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.0048
				1	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	5	3	1	2							611	99100	16	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
									1		611	98811	1	EACH	INLET, NO. 3C, AS PER PLAN	
		3	4								611	99110	7	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
		1	1		1	1	2		1		611	98820	7	EACH	INLET, NO. 3D	
1		4	14	14	1	2	4	2	5		611	98840	47	EACH	INLET, NO. 2-A-6	
2		1	7	8	2	6	4	3	2		611	98850	35	EACH	INLET, NO. 2-A-8	
1			1	1	1	8	5	2	5		611	98860	24	EACH	INLET, NO. 2-A-10	
				1	4	1	1	1	2		611	98870	10	EACH	INLET, NO. 2-A-12	
				3		1	1	1	2		611	98880	8	EACH	INLET, NO. 2-A-14	
									1		611	98890	1	EACH	INLET, NO. 2-A-16	
		1									611	99000	1	EACH	INLET, NO. 2-A-18	
8	17	8	1	3	22	15	3	1	12		611	99574	90	EACH	MANHOLE, NO. 3	
10	6	1					2		5		611	99575	24	EACH	MANHOLE, NO. 3, AS PER PLAN	P.0048A
					1						611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN (2)	P.0048
1	1										611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE	
	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 P.0347 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/7/2025 TIME: 10:28:12 AM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779400-Engineering\Drainage\Sheets\76779_DS001.dgn

DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 12" CONDUIT, TYPE B	611 15" CONDUIT, TYPE B	611 15" CONDUIT, TYPE C	611 24" CONDUIT, TYPE C	611 36" CONDUIT, TYPE C	611 42" CONDUIT, TYPE B	611 42" CONDUIT, TYPE C	611 60" CONDUIT, TYPE B	611 CONDUIT, BORED OR JACKED, 15", TYPE B	611 CONDUIT, BORED OR JACKED, 18", TYPE B	611 CONDUIT, BORED OR JACKED, 24", TYPE B	611 CONDUIT, BORED OR JACKED, 36", TYPE B	611 CONDUIT, BORED OR JACKED, 36", TYPE C	611 CONDUIT, BORED OR JACKED, 42", TYPE B	611 CATCH BASIN, NO. 3	611 CATCH BASIN, NO. 3A	611 CATCH BASIN, NO. 5	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	611 INLET, NO. 2-A-6	611 INLET, NO. 2-A-8	611 INLET, NO. 2-A-10	611 MANHOLE, NO. 3	611 MANHOLE, NO.3, AS PER PLAN	611 MANHOLE RECONSTRUCTED TO GRADE
						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 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			R5								67							1						
1047/1070	D79	IR 90	530+69.00	533+50.00	RT					281												1							
1048/1070	D75	IR 90	533+50.00	535+20.00	RT													170								1			
1048/1070	D71	IR 90	535+20.00	37+53.40	RT			R5		228																1			
1047/1075	D79A	IR 90	353+30.00	530+69.00	RT				311																				1
1048/1070	D62	RAMP HA	37+53.40	37+60.00	LT/RT												58									1			
1048/1070	D57	RAMP HA	37+60.00	40+16.00	RT					254																1			
1048/1071	D50	RAMP HA	40+16.00	542+89.00	RT							272														1			
1048/1071	D21	IR 90	542+89.00	545+10.00	RT							221														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														146								1		
1049/1072	D17	IR 90	547+00.00	547+09.00	RT						29																1		
1049/1072	D14	IR 90	547+09.00	547+65.00	RT								56														1		
1049/1072	D11	IR 90	547+65.00	551+91.86	RT								416														1		
1047/1075	D86	IR 90	529+87.00	530+69.00	RT		82																1						
1047/1075	D85	IR 90	530+69.00	531+51.00	RT		82																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		R5	27														1							
1048/1075	D72	RAMP HA	35+43.00	535+20.00	LT			40														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			11														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															1							
1048/1076	D65	IR 90	537+50.00	537+48.00	LT/RT									64						1									
1048/1076	D64	IR 90	537+48.00	37+53.40	RT									79													1		
1048/1076	D54	RAMP HA	39+68.00	40+16.00	RT			46																	1				
1048/1076	D53	RAMP HA	40+16.00	540+58.00	RT			40																		1			
1048/1076	D55	RAMP HA	40+16.00	40+16.00	RT			10												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		75																1						
1048/1077	D49	RAMP HB	38+16.00	39+18.00	RT		98													1									
1048/1077	D48	RAMP HB	39+18.00	39+85.00	RT		66													1									
1048/1077	D47	RAMP HB	39+85.00	42+81.00	RT		298																				1		
1048/1077	D28	RAMP HB	42+81.00	542+75.00	RT											75								1					
1048/1077	D26	IR 90	542+75.00	542+91.00	RT											93											1		
1048/1077	D25	IR 90	542+91.00	542+89.00	RT				8																1				
1048/1077	D22	IR 90	542+89.00	542+89.00	RT				13													1							
1048/1077	D30	RAMP HB	42+73.50	42+73.50	LT	7															1					R4			
1048/1077	D29	RAMP HB	42+73.50	543+25.25	LT		51																				1		
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										53												1		
TOTALS CARRIED TO SHEETS 346 & 347						46	976	286	332	763	101	493	472	143	126	235	58	170	146	5	4	10	5	1	2	1	8	10	1

R4 R5

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0351 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 4/4/2025 TIME: 10:17:29 PM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DQ002.dgn

DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	202 SPECIAL - PIPE CLEANOUT, 24" AND UNDER	202 SPECIAL - PIPE CLEANOUT, 27" TO 48"	611 12" CONDUIT, TYPE B	611 15" CONDUIT, TYPE B	611 15" CONDUIT, TYPE C	611 24" CONDUIT, TYPE B	611 36" CONDUIT, TYPE C	611 CONDUIT, BORED OR JACKED, 15", TYPE B	611 CONDUIT, BORED OR JACKED, 18", TYPE B	611 CONDUIT, BORED OR JACKED, 24", TYPE B	611 CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	611 66" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT	611 CATCH BASIN, NO. 3	611 CATCH BASIN, NO. 3A	611 CATCH BASIN, NO. 5	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	611 MANHOLE, NO. 3	611 MANHOLE, NO. 3, AS PER PLAN	611 MANHOLE RECONSTRUCTED TO GRADE	611 MANHOLE, MISC.: MH-3 MODIFIED
						FT	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
OUTFALL B CONTINUED																																	
1048/1078	D38	IR 90	543+26.00	453+25.25	LT			6																		1							
1048/1078	D42	IR 90	543+26.94	543+26.00	LT			5																									
1048/1078	D24	IR 90	544+00.00	543+97.00	RT					10																	1						
1048/1078	D23	IR 90	543+97.00	542+89.00	RT					108																		1					
1049/1078	D20	IR 90	545+50.00	545+10.00	RT				45																		1						
1049/1078	D13	IR 90	547+43.00	547+65.00	RT								94															1					
1049/1078	D12	IR 90	547+65.00	547+65.00	RT								79																1				
1049/1079	D16	IR 90	546+85.00	547+09.00	RT				28			8																1					
1049/1079	D10	IR 90	553+66.00	553+66.00	LT									84														1					
1049/1079	D9	IR 90	553+66.00	553+75.00	LT										74														1				
1049/1080	D8	IR 90	554+84.00	553+75.00	RT					108																		1					
1049/1080	D7	IR 90	553+75.00	551+80.86	RT						194																			1			
1049/1073	D6	IR 90	551+80.86		RT																											1	
OUTFALL C																																	
1051/1081	D124	IR 90	571+58.00	571+58.00	LT												8											1					
1051/1081	D122	IR 90	571+58.00	571+58.00	LT/RT														15										1				
1051/1082	D121	IR 90	571+50.00	571+58.00	RT												12											1					
1051/1081	D116	IR 90	573+57.00	574+00.00	RT														43												1		
1051/1081	D103	IR 90	573+94.00	574+92.46	RT															99										1			
1051/1081	D102	IR 90	574+92.46	576+36.88	RT	145																											
1051/1082	D112	IR 90	573+57.00	573+94.00	LT											38										1							
1051/1082	D117	IR 90	573+57.00	573+57.00	LT/RT											15													1				
1051/1082	D105	IR 90	573+57.00	573+75.00	RT												20									1							
1051/1082	D104	IR 90	573+75.00	573+94.00	RT												19											1					
1051/1082	D111	IR 90	574+17.00	573+95.00	LT												25											1					
1051/1082	D109	IR 90	574+00.00	573+94.00	LT/RT														11										1				
1051/1082	D107	IR 90	573+94.00	573+75.00	RT															10						1							
OUTFALL D																																	
1052/1083	D128	IR 90	580+95.00	582+86.41	LT		190																										1
1052/1083	D130	IR 90	582+86.41	583+51.00	LT																			69						1			
1052/1083	D140	IR 90	583+51.00	584+54.00	LT																			105						1			
1052/1084	D145	IR 90	585+25.00	587+40.00	RT																		214								1		
1052/1084	D156	IR 90	590+00.00	592+55.00	RT																		254							1			
1053/1084	D158	IR 90	592+55.00	595+10.00	RT																		254							1			
1053/1085	D160	IR 90	595+10.00	598+05.00	RT																		295							1			
1053/1086	D161	IR 90	598+05.00	600+90.00	RT																		285							1			
1053/1086	D176A	IR 90	603+02.00	603+75.00	RT																		73							1			
1053/1086	D185	IR 90	603+75.00	606+30.00	RT																		255							1			
1054/1087	D186	IR 90	606+30.00	609+58.00	RT																	328								1			
1054/1087	D188	IR 90	609+58.00	611+75.00	RT																	218									1		
1054/1087	D202B	IR 90	611+75.00	614+00.00	RT																	226								1			
1054/1088	D196	IR 90	615+50.00	616+36.00	RT																	82									1		
1054/1088	D203A	IR 90	616+36.00	617+25.00	RT																89									1			
1054/1088	D212	IR 90	617+25.00	618+13.00	RT																291										1		
1055/1088	D218A	IR 90	618+13.00	620+00.00	RT																										1		
1055/1089	D244	IR 90	621+56.00	625+60.00	RT																	404								1			
1055/1089	D245	IR 90	625+60.00	629+58.00	RT																	398								1			
1056/1090	D276	IR 90	629+58.00	34+74.38	RT																	517								1			
1056/1090	D280	IR 90 EB	34+74.38	39+25.00	LT																	452								1			
TOTALS CARRIED TO SHEETS 346 & 347						145	190	11	73	226	194	8	173	84	74	53	84	69	109	1958	380	854	1630	174	4	2	9	5		17	6	1	1

R4 R5

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0352 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 7/4/2025 TIME: 10:27:54 PM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\02000062\76779\400-Engineering\Drainage\Sheets\76779_DQ002.dgn

DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 CONDUIT, BORED OR JACKED, 15", TYPE B	611 CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	611 CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	611 CATCH BASIN, NO. 3	611 CATCH BASIN, NO. 3A	611 CATCH BASIN, NO. 5	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	611 INLET, NO. 3D	611 INLET, NO. 2-A-6	611 INLET, NO. 2-A-8	611 INLET, NO. 2-A-18	611 MANHOLE, NO. 3	611 MANHOLE, NO. 3, AS PER PLAN
						FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
OUTFALL D CONTINUED																													
1056/1091	D282	IR 90 WB	39+25.00	42+77.00	RT												352											1	
1056/1091	D310	IR 90 WB	44+58.00	46+54.00	RT											196												1	
1056/1091	D311	IR 90 WB	46+54.00	48+50.00	RT										196													1	
1052/1092	D315	IR 90 WB	48+50.00	51+06.00	RT									256														1	
1057/1092	D319	IR 90 WB	53+62.00	54+95.00	RT								133															1	
1057/1092	D335	IR 90 WB	54+95.00	57+71.94	RT						278																	1	
1057/1093	D336	IR 90 EB	57+71.94	60+52.00	LT						278									1									
1057/1093	D340	RAMP W2A	60+62.00	61+67.00	LT			108																				1	
1057/1093	D341	RAMP W2A	61+67.00	61+67.00	LT/RT		30											1											
1057/1093	D344	RAMP W2A	61+67.00	61+25.00	RT		40																		1				
1057/1093	D345	RAMP W2A	61+25.00	60+49.00	RT		78	14																				1	
1052/1094	D136	IR 90	583+16.50	583+29.00	RT							16	6							1									
1052/1094	D133	IR 90	583+29.00	583+51.00	LT								22											1					
1052/1094	D132	IR 90	583+51.00	583+51.00	LT								15																1
1052/1094	D131	IR 90	583+51.00	583+51.00	LT								22							1									
1052/1094	D142	IR 90	584+80.00	585+25.00	LT/RT		49																1						
1052/1094	D143	IR 90	585+15.00	585+72.00	RT		58												1										
1052/1094	D144	IR 90	585+72.00	587+00.00	RT		126												1										
1052/1095	D146	IR 90	587+40.00	587+40.00	LT\RT		21																1						
1052/1095	D155	IR 90	589+25.00	590+00.00	RT			70												1									
1052/1095	D154	IR 90	590+00.00	590+00.00	RT		34																			1			
1052/1095	D149	IR 90	590+00.00	590+15.00	LT/RT		26																1						
1052/1095	D152	IR 90	590+00.00	591+08.00	RT		99																				1		
1052/1095	D153	IR 90	591+08.00	591+00.00	RT		9													1									
1053/1095	D159	RAMP MC	95+34.00	595+10.00	LT/RT	122																			1				
1053/1096	D163	IR 90	600+25.00	600+90.00	RT		66											1											
1053/1096	D164	IR 90	600+90.00	600+90.00	LT/RT					17											1								
1053/1096	D166	IR 90	600+90.00	600+93.00	LT			6												1									
1053/1096	D171	IR 90	603+01.00	603+01.00	RT			10												1									
1053/1096	D175	IR 90	603+02.00	603+02.00	LT/RT		17														1								
1053/1096	D176	IR 90	603+76.00	603+02.00	LT					17											1								
1053/1096	D179	IR 90	603+01.00	603+01.00	LT			10												1									
1053/1097	D170	IR 90	602+61.00	603+01.00	RT		38																		1				
1053/1097	D172	IR 90	603+75.00	603+77.00	RT					57															1				
1053/1097	D173	IR 90	603+77.00	604+98.00	RT		123													1									
1053/1097	D174	IR 90	604+98.00	473+01.00	LT			12	28																				
TOTALS CARRIED TO SHEETS 346 & 347						122	814	230	28	91	556	16	198	256	196	196	352	2	2	9	3		3	1	4	1		1	8	1

R5 R5 R5 R5 R5 R4 R4 R4 R4 R4 R4 R4 R4 R4 R4

CUY-90-6.69

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 4/7/2023 TIME: 10:35:09 AM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DQ002.dgn

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0353 TOTAL P.1587

DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 CONDUIT, BORED OR JACKED, 15", TYPE B (FT)	611 CONDUIT, MISC.: 12" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT (FT)	611 CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT (FT)	611 CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT (FT)	611 CONDUIT, MISC.: 36" CONDUIT, TYPE B, ROCK CUT (FT)	611 CATCH BASIN, NO. 3 (EACH)	611 CATCH BASIN, NO. 3A (EACH)	611 CATCH BASIN, NO. 5 (EACH)	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 (EACH)	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1 (EACH)	611 INLET, NO. 2-A-6 (EACH)	611 INLET, NO. 2-A-8 (EACH)	611 INLET, NO. 2-A-10 (EACH)	611 MANHOLE, NO. 3 (EACH)
		OUTFALL D CONTINUED																						
1053/1097	D178	IR 90	602+26.00	603+01.00	LT				75							1								
1053/1097	D181	IR 90	603+78.00	605+01.00	LT				120													1		
1053/1097	D182	IR 90	605+01.00	604+99.00	LT				6								1							
1054/1098	D187	RAMP ME	9+34.00	608+58.00	LT	65														1				
1054/1098	D1183	IR 90	614+00.00	613+96.00	LT					6							1							
1054/1098	D191	IR 90	610+95.00	912+00.00	LT				100													1		
1054/1098	D189	IR 90	611+75.00	611+75.00	RT						15								1					
1054/1098	D192	IR 90	612+00.00	612+45.00	LT				47													1		
1054/1098	D193	IR 90	612+45.00	612+67.00	LT				43													1		
1054/1098	D194	IR 90	612+67.00	631+96.00	LT				126													1		
1055/1099	D206	IR 90	616+25.00	616+25.00	LT				9								1							
1055/1099	D201	IR 90	616+36.00	616+36.00	RT								15						1					
1055/1099	D208	IR 90	617+10.00	616+00.00	LT				90											1				
1055/1099	D209	IR 90	616+00.00	617+01.00	LT		6		99											1				
1055/1099	D202	IR 90	615+56.00	615+50.00	RT						12								1					
1055/1100	D203	IR 90	617+25.00	617+28.00	RT						13								1					
1055/1101	D214	IR 90	618+15.00	619+37.00	LT									122						1				
1055/1101	D215	IR 90	619+37.00	620+63.00	LT							6	126			1								
1055/1102	D241	IR 90	628+01.00	626+50.00	LT			6	151											1				
1055/1102	D240	IR 90	626+50.00	624+75.00	LT				175											1				
1055/1102	D238	IR 90	624+75.00	623+00.00	LT		6		172													1		
1055/1102	D237	IR 90	623+00.00	621+59.00	LT				142											1				
1055/1102	D225	IR 90	621+46.00	622+75.00	RT						131												1	
1055/1103	D226	IR 90	622+75.00	624+25.00	RT						151											1		
1055/1103	D227	IR 90	624+25.00	625+50.00	RT						128				1									
1055/1103	D228	IR 90	625+50.00	626+50.00	RT				99											1				
1055/1103	D229	IR 90	626+50.00	627+50.00	RT				100											1				
1055/1103	D230	IR 90	627+50.00	628+50.00	RT				101											1				
1055/1103	D231	IR 90	628+50.00	629+36.00	RT				87											1				
1055/1104	D223	IR 90	619+01.00	619+35.00	RT					35														1
1055/1104	D222	IR 90	619+35.00	620+72.00	RT				137											1				
1055/1104	D221	IR 90	620+72.00	621+46.00	RT				69						1									
1055/1104	D233	IR 90	621+86.00	621+56.00	RT				33									1						
1055/1105	D273	IR 90	639+25.00	638+00.00	LT				125											1				
1055/1105	D272	IR 90	638+00.00	636+50.00	LT				144											1				
		TOTALS CARRIED TO SHEETS 346 & 347				65	12	6	2250	41	450	15	6	248	2	2	3	1	4	14	7	1		1

R3 R4 R5

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0354 TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 4/4/2025 TIME: 10:46:49 PM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DQ002.dgn

DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	611 CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	611 CATCH BASIN, NO. 3	611 CATCH BASIN, NO. 3A	611 CATCH BASIN, NO. 5	611 CATCH BASIN, NO. 6	611 CATCH BASIN, NO. 2-3	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	611 INLET, NO. 2-A-6	611 INLET, NO. 2-A-8	611 INLET, NO. 2-A-10	611 INLET, NO. 2-A-12	611 INLET, NO. 2-A-14	611 MANHOLE, NO. 3
						FT	FT	FT	FT	FT	FT	FT	FT	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												1						
1056/1105	D269	RAMP W1	36+40.00	634+85.00	LT		144									1									
1056/1105	D268	IR 90	634+85.00	633+38.00	LT		149								1										
1056/1105	D267	IR 90	633+38.00	632+05.00	LT					133									1						
1056/1105	D266	IR 90	632+05.00	631+27.00	LT					78									1						
1056/1105	D263	IR 90	631+27.00	629+50.00	LT	5						177							1						
1056/1106	D261	IR 90	629+50.00	629+58.00	LT/RT							17						1							
1056/1106	D250	IR 90	629+59.00	631+90.00	RT					231										1					
1056/1106	D251	IR 90	631+90.00	33+80.00	RT					190										1					
1056/1106	D252	IR 90 EB	33+80.00	34+70.00	RT					93															1
1056/1106	D254	IR 90	34+70.00	35+50.00	RT					77										1					
1056/1106	D255	IR 90	35+50.00	37+12.00	RT					166															1
1056/1106	D257	IR 90	37+12.00	37+15.00	RT		22							1											
1056/1107	D258	IR 90	37+15.00	39+55.00	RT		237													1					
1056/1107	D249	RAMP W2	30+76.00	29+66.00	LT		109													1					
1056/1107	D247	RAMP W2	29+66.00	629+59.00	LT		11												1						
1056/1108	D253	RAMP W2	34+76.00	34+70.00	LT/RT		42								1										
1056/1108	D256	IR 90 EB	37+52.75	37+12.00	RT		41										1								
1056/1108	D277	IR 90	634+75.00	34+74.38	LT		15											1							
1057/1109	D283	IR 90 EB	42+71.18	42+77.00	RT						13					1									
1057/1109	D289	IR 90 WB	43+25.00	44+15.00	LT					90					1										
1057/1109	D290	IR 90 WB	44+15.00	46+02.00	LT	8	185												1						
1057/1109	D293	IR 90 WB	46+02.00	47+60.00	LT		158												1						
1057/1109	D294	IR 90 WB	47+60.00	49+25.50	LT	6	166												1						
1057/1109	D296	IR 90 WB	49+25.50	51+50.00	LT		222															1			
1057/1110	D288	RAMP W1	41+40.00	41+40.00	LT		66														1				
1057/1110	D287	IR 90 WB	41+40.00	42+37.00	LT		99																		1
1057/1110	D286	IR 90 WB	42+37.00	43+25.00	LT		86												1						
1057/1111	D301	IR 90 EB	44+58.00	44+55.00	LT/RT						24					1									
1057/1111	D304	IR 90 EB	44+40.00	45+25.00	RT		83												1						
1057/1111	D305	IR 90 EB	45+25.00	47+10.00	RT		184													1					
1057/1111	D306	IR 90 EB	47+10.00	49+00.00	RT		190													1					
1057/1111	D307	IR 90 EB	49+00.00	51+70.00	RT		267																1		
1057/1112	D303	IR 90 EB	43+88.00	44+40.00	RT		50												1						
1057/1112	D312	IR 90 EB	48+50.00	48+50.00	LT						24					1									
1057/1112	317	IR 90 EB	53+66.00	53+62.00	LT								31			1									
1057/1112	D326	IR 90 WB	60+50.00	57+88.00	LT		263																1		
1058/1113	D321	S MARGINAL RD	34+00.00	55+08.00	LT				57																
1058/1113	D325	IR 90 WB	55+04.00	57+88.00	LT		284																1		
1058/1113	D328	RAMP W1A	57+88.00	57+65.00	RT			61											1						
1058/1113	D329	RAMP W1A	57+65.00	58+61.00	RT		94							1											
1058/1113	D330	RAMP W1A	58+61.00	59+45.00	RT		82												1						
1058/1113	D331	RAMP W1A	59+45.00	60+85.00	RT		138													1					
1058/1114	D333	RAMP W1A	60+85.00	63+00.00	RT		215												1						
TOTALS CARRIED TO SHEETS 346 & 347						19	3637	61	57	1058	61	194	31	2	3	4	1	1	2	14	8	1	1	3	3

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0355 TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 4/4/2025 TIME: 10:53:30 PM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DQ002.dgn

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 15" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE F FT	611 18" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE C FT	611 30" CONDUIT, TYPE C FT	611 54" CONDUIT, TYPE C FT	611 CONDUIT, BORED OR JACKED, 15", TYPE B FT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT FT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT FT	611 CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 36" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT FT	611 CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 5, AS PER PLAN EACH	611 CATCH BASIN, NO. 6 EACH	611 INLET, NO. 3D EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3 AS PER PLAN (2) EACH
		OUTFALL D CONTINUED																																	
1058/1114	D343	RAMP W2A	61+52.00	61+67.00	RT									19										1											
1058/1114	D342	RAMP W2A	62+08.00	61+67.00	RT								37																		1				
1058/1114	D339	RAMP W2A	60+77.00	60+62.00	LT									28															1						
		OUTFALL E																																	
1059/1115	D399	IR 90 EB	65+00.00	66+63.00	RT										163																	1			
1059/1115	D398	IR 90 EB	66+63.00	66+60.68	RT											43																1			
1059/1116	D374	IR 90 EB	75+15.00	76+56.00	LT													141															1		
1059/1116	D370	IR 90 EB	76+56.00	678+15.00	RT													184															1		
1059/1117	D358	IR 90	678+15.00	678+41.54	LT														66																1
1059/1118	D384	IR 90 EB	69+05.00	71+60.00	RT								258																			1			
1059/1118	D383	IR 90 EB	71+60.00	71+29.97	RT									70									1												
1059/1118	D376	IR 90 EB	74+59.99	75+14.99	LT								55										1												
1059/1118	D371	IR 90 EB	76+59.99	76+55.99	LT									6																		1			
1059/1119	D368	IR 90	674+75.15	676+74.22	RT									192										1											
1059/1119	D367	IR 90	676+74.22	678+15.00	RT									140																1					
1059/1119	D366	IR 90	678+15.00	678+35.00	RT									18																1					
1059/1119	D361	IR 90	674+82.31	676+50.00	RT											168								1											
1060/1119	D360	IR 90	676+50.00	678+15.00	RT											165																	1		
		OUTFALL F																																	
1061/1120	D438	IR 90	694+90.00	694+75.00	LT							91												1											
1061/1120	D437	IR 90	694+75.00	695+00.00	LT		73																				1								
1061/1120	D436	IR 90	695+00.00	695+61.50	LT			6																	1										
		OUTFALL M																																	
1061/1121	D937	IR 90	697+75.00	697+75.00	LT							80														1									
1061/1121	D936	IR 90	697+75.00	698+75.00	LT	100																											1		
1061/1121	D934	IR 90	698+75.00	701+10.00	LT	233																											1		
1062/1121	D930	IR 90	701+10.00	703+95.00	LT	282																											1		
1062/1121	D926	IR 90	703+95.00	706+53.00	LT				256																								1		
1062/1121	D923	IR 90	706+53.00	709+28.00	LT				274																								1		
1062/1122	D920	IR 90	709+28.00	711+40.00	LT				212																								1		
1062/1122	D919	IR 90	711+40.00	713+64.00	LT				224																								1		
1063/1122	D916	IR 90	713+64.00	716+08.00	LT					244																							1		
1063/1122	D914	IR 90	716+08.00	718+50.00	LT												242																1		
1063/1123	D911	IR 90	718+50.00	720+00.00	LT												150																1		
1063/1123	D909	IR 90	720+00.00	722+44.00	LT												240																1		
1063/1123	D902	IR 90	722+44.00	724+90.00	LT												250																1		
1064/1123	D900	IR 90	724+90.00	727+73.00	LT												283																1		
1064/1124	D875	IR 90	727+73.00	730+34.00	LT															261													1		
1064/1124	D870	IR 90	730+34.00	732+39.00	LT															205													1		
1064/1124	D856	IR 90	735+76.00	738+65.00	LT																289												1		
1065/1125	D855	IR 90	738+65.00	741+56.00	LT						291																						1		
1065/1126	D838	IR 90	741+56.00	745+05.00	LT						349																						1		
1064/1124	D864	IR 90	734+50.00	735+76.00																126													1		
TOTALS CARRIED TO SHEETS 346 & 347						615	73	6	966	244	640	171	350	473	163	376	1165	325	66	592	289	2	1	3	1	1	1	1	2	1	4	22	1		

R4 R5 R5 R5 R5 R4 R4 R4

DRAINAGE ESTIMATED QUANTITIES

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0356 TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 4/4/2025 TIME: 10:59:20 PM USER: aoldaker
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DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE B FT	611 24" CONDUIT, TYPE C FT	611 54" CONDUIT, TYPE C FT	611 CONDUIT, BORED OR JACKED, 15", TYPE B FT	611 CONDUIT, BORED OR JACKED, 24", TYPE B FT	611 CONDUIT, BORED OR JACKED, 54", TYPE C FT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT FT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT FT	611 CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT FT	611 CONDUIT, MISC.: 60" CONDUIT, TYPE C, ROCK CUT FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 6 EACH	611 INLET, NO. 3D EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-14 EACH	611 MANHOLE, NO. 3 EACH
OUTFALL M CONTINUED																													
1065/1126	D825	IR 90	745+05.00	749+75.00	LT					470																			1
1066/1127	D814	IR 90	749+75.00	751+75.00	LT								200																1
1066/1127	D811	IR 90	751+75.00	753+59.00	LT					184																			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					94																			1
1066/1127	D800	IR 90	755+63.00	756+74.00	LT					111																			1
1066/1127	D798	IR 90	756+74.00	758+05.00	LT					131																			1
1066/1127	D795	IR 90	758+05.00	759+15.00	LT								110																1
1066/1128	D785	IR 90	759+15.00	763+00.00	LT					384																			1
1067/1128	D779	IR 90	763+00.00	765+75.00	LT					274																			1
1067/1128	D777	IR 90	765+75.00	768+00.00	LT					226																			1
1067/1129	D770	IR 90	768+52.00	70+50.00	RT													209											1
1067/1129	D755	RAMP W13	70+50.00	773+79.38	RT												9												1
1061/1130	D935	IR 90	698+75.00	698+75.00	LT					75											1								
1062/1130	D931	IR 90	701+03.00	701+10.00	RT						110																	1	
1062/1130	D933	IR 90	701+10.00	701+10.00	LT						77										1								
1062/1130	D928	IR 90	703+90.00	903+95.00	RT						95								1										
1062/1130	D927	IR 90	703+95.00	703+95.00	LT		13													1									
1062/1130	D929	IR 90	703+95.00	703+95.00	LT						76											1							
1062/1130	D925	IR 90	706+50.00	706+53.00	LT						83													1					
1062/1131	D921	IR 90	709+24.00	709+28.00	RT						110														1				
1062/1131	D922	IR 90	709+28.00	709+25.00	LT						80													1					
1063/1131	D917	IR 90	713+64.00	713+64.00	LT		11													1									
1063/1131	D918	IR 90	713+64.00	713+60.00	LT						80														1				
1063/1131	D910	IR 90	720+00.00	720+00.00	LT										13					1									
1063/1132	D908	IR 90	714+00.00	715+50.00	RT	146																			1				
1063/1132	D907	IR 90	715+50.00	717+00.00	RT	154																							1
1063/1132	D906	IR 90	717+00.00	719+70.00	RT	270																			1				
1063/1132	D905	IR 90	719+70.00	722+50.00	RT									276												1			
1064/1134	D884	IR 90	724+50.00	725+75.00	LT	125																			1				
1064/1134	D883	IR 90	725+75.00	27+00.68	LT	124																			1				
1064/1134	D882	RAMP 117-5	27+00.68	27+53.00	LT	50																		1					
1064/1134	D878	RAMP 117-5	27+53.00	727+73.00	LT						126								1										
1064/1134	D885	IR 90	727+73.00	727+68.00	RT				17											1									
1064/1134	D886	RAMP 117-8	727+68.00	27+20.00	LT							206								1									
1064/1134	D896	RAMP 117-8	27+20.00	27+20.00	RT			38											1										
1064/1134	D893	RAMP 117-8	30+50.00	29+00.00	RT	151																			1				
1064/1134	D892	RAMP 117-8	29+00.00	28+94.00	RT	31																		1					
1064/1135	D888	RAMP 117-8	30+65.00	28+94.00	LT	166																		1					
1064/1135	D887	RAMP 117-8	28+94.00	27+20.00	LT			180															1						
1064/1135	D898	RAMP 117-8	24+45.00	25+80.00	RT	130																			1				
1064/1135	D891	RAMP 117-8	25+80.00	26+70.00	RT	92																							1
1064/1135	D897	RAMP 117-8	26+70.00	27+20.00	RT	47																		1					
1064/1135	D890	RAMP 117-8	27+20.00	27+70.00	RT	48																	1						
TOTALS CARRIED TO SHEETS 346 & 347						1534	24	218	17	1874	912	206	310	276	13	110	9	209	3	5	2	1	2	6	8	1	1	15	

R4 R5

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0357 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 7 PAPERSIZE: 34x22 (in.) DATE: 4/4/2025 TIME: 11:03:01 PM USER: aoldaker
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DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 15" CONDUIT, TYPE B	611 15" CONDUIT, TYPE C	611 18" CONDUIT, TYPE B	611 CONDUIT, BORED OR JACKED, 15", TYPE B	611 CONDUIT, BORED OR JACKED, 24", TYPE B	611 CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	611 CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	611 CATCH BASIN, NO. 3	611 CATCH BASIN, NO. 3A	611 CATCH BASIN, NO. 5	611 CATCH BASIN, NO. 6	611 INLET, NO. 3D	611 INLET, NO. 2-A-6	611 INLET, NO. 2-A-8	611 INLET, NO. 2-A-10	611 INLET, NO. 2-A-12	611 INLET, NO. 2-A-14	611 MANHOLE, NO. 3	611 MANHOLE, NO. 3, AS PER PLAN
			FROM	TO		FT	FT	FT	FT	FT	FT	FT	FT	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+14.00	LT						84									1					
1064/1136	D879	RAMP 117-5	28+14.00	27+53.00	LT						59							1							
1064/1136	D872	IR 90	730+86.00	730+22.00	RT								75			1									
1064/1136	D873	IR 90	729+56.00	730+22.00	RT							70				1									
1064/1136	D867	IR 90	732+47.00	732+34.00	LT						12					1									
1065/1137	D863	RAMP 117-12	34+50.00	40+74.00	RT							41				1									
1065/1137	D862	RAMP 117-11	40+74.00	38+85.00	LT							164											1		
1065/1137	D860	RAMP 117-11	38+85.00	736+00.00	LT						214												1		
1065/1137	D857	IR 90	735+76.00	735+76.00	RT							11				1									
1065/1137	D861	RAMP 117-12	36+86.00	38+85.00	LT						46									1					
1065/1137	D859	IR 90	735+12.00	735+76.00	LT							90							1						
1065/1138	D848	RAMP 117-9	34+90.00	36+60.00	RT							164									1				
1065/1138	D847	RAMP 112-9	36+60.00	38+25.00	RT						169														1
1065/1138	D846	RAMP 112-9	38+25.00	36+98.00	RT						126											1			
1065/1138	D845	RAMP 112-9	36+98.00	740+15.00	RT								56										1		
1065/1138	D843	IR 90	740+15.00	741+57.00	RT								139						1						
1065/1139	D853	IR 90	735+75.00	738+46.00	RT						271								1						
1065/1139	D851	IR 90	738+46.00	739+54.00	RT						107								1						
1065/1139	D850	IR 90	739+54.00	739+62.98	RT						41							1							
1065/1139	D852	IR 90	738+98.00	738+46.00	RT						50					1									
1065/1139	D842	IR 90	742+10.00	741+57.00	RT		53							1											
1065/1140	D835	RAMP 117-12	39+10.00	41+00.00	LT		189							1											
1065/1140	D834	RAMP 117-12	41+00.00	43+30.00	LT		227											1							
1065/1140	D832	RAMP 117-12	43+30.00	743+59.00	LT			57									1								
1065/1140	D830	IR 90	743+59.00	745+05.00	LT			145										1							
1065/1140	D828	IR 90	745+05.00	745+05.00	LT					77															1
1065/1140	D826	IR 90	745+05.00	745+03.50	LT/RT		11									1									
1065/1140	D829	IR 90	744+85.00	745+05.00	LT	45								1											
1065/1141	D831	IR 90	742+46.00	743+59.00	LT		115									1									
1065/1141	D819	IR 90	744+05.00	746+25.00	RT	220														1					
1065/1141	D817	IR 90	746+25.00	748+40.00	RT	211														1					
1066/1141	D816	IR 90	748+40.00	749+75.00	RT	135									1										
1066/1142	D815	IR 90	749+75.00	749+75.00	RT					113							1								
1066/1142	D821	IR 90	749+75.00	749+70.00	LT				97											1					
1066/1142	D822	IR 90	749+70.00	748+50.00	LT	124								1											
1066/1142	D822A	IR 90	748+50.00	747+25.00	LT	125								1											
1066/1142	D823	IR 90	747+25.00	746+00.00	LT	125								1											
1066/1143	D812	IR 90	751+75.00	751+75.00	LT/RT							11				1									
1066/1143	D809	IR 90	753+59.00	753+59.00	LT/RT				114								1								
1066/1143	D807	IR 90	754+75.00	754+69.00	LT/RT				114								1								
		TOTALS CARRIED TO SHEETS 346 & 347				985	595	202	325	190	1179	551	270	6	1	9	2	2	4	4	5	1	1	3	2

R4 R5

CUY-90-6.69

MODEL: Sheet 8 PAPERSIZE: 34x22 (in.) DATE: 4/4/2025 TIME: 11:09:33 PM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\2020\000822\76779\400-Engineering\Drainage\Sheets\76779_DQ002.dgn

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0358 TOTAL P.1587

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE C FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE C FT	611 CONDUIT, BORED OR JACKED, 15", TYPE B FT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT FT	611 CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 3, AS PER PLAN EACH	611 CATCH BASIN, NO. 5 EACH	611 CATCH BASIN, NO. 6 EACH	611 CATCH BASIN, MISC.: CB-1 (CITY OF CLEVELAND) EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 INLET, NO. 2-A-12 EACH	611 INLET, NO. 2-A-14 EACH	611 MANHOLE, NO. 3 EACH
		OUTFALL M CONTINUED																						
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								
1066/1144	D802	IR 90	755+65.00	755+56.00	RT						103						1							
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										
1067/1145	D789	IR 90	760+85.00	762+45.00	LT			150														1		
1067/1145	D790	IR 90	762+45.00	764+25.00	LT			177													1			
1067/1146	D780	IR 90	763+00.00	763+00.00	LT				14							1								
1067/1146	D776	IR 90	765+70.00	768+52.00	LT				282														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			1								
1067/1146	D760	RAMP W13	70+50.00	70+60.00	RT								16	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	D442	W 117TH ST	53+84.00	33+60.64	RT	6												1						
1064/1147	D441	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								
1067/1149	D451	RAMP W14	69+44.00	69+57.49	RT					34					1									
1067/1149	D453	RAMP W14	69+11.00	69+44.00	RT								31						1					
TOTALS CARRIED TO SHEETS 346 & 347						11	68	990	352	34	332	59	79	5	1	5	1	1	2	3	2	1	1	1

DRAINAGE ESTIMATED QUANTITIES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0359 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 9 PAPERSIZE: 34x22 (in.) DATE: 4/4/2025 TIME: 11:12:02 PM USER: aoldaker
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DQ002.dgn

DRAINAGE ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 CONDUIT, MISC.:12" CONDUIT, TYPE B, ROCK CUT (EACH)	611 CONDUIT, MISC.:12" CONDUIT, TYPE C, ROCK CUT (EACH)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 15" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 18" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 24" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 30" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 30" TYPE C (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 36" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42" TYPE C (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48" TYPE C (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 54" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 60" TYPE B (FT)	611 CONDUIT, BORED OR JACKED, AS PER PLAN (2), 66" TYPE B (FT)	611 CATCH BASIN, NO. 3 (EACH)	611 CATCH BASIN, NO. 3A (EACH)	611 CATCH BASIN, NO. 5 (EACH)	611 INLET, NO. 3C, AS PER PLAN (EACH)	611 INLET, NO. 3D (EACH)	611 INLET, NO. 2-A-6 (EACH)	611 INLET, NO. 2-A-8 (EACH)	611 INLET, NO. 2-A-10 (EACH)	611 INLET, NO. 2-A-12 (EACH)	611 INLET, NO. 2-A-14 (EACH)	611 INLET, NO. 2-A-16 (EACH)	611 MANHOLE, NO. 3 (EACH)	611 MANHOLE, NO. 3, AS PER PLAN (EACH)
		OUTFALL C																																	
1051/1081	D123	IR 90	571+58.00	571+58.00	LT			70																							1				
1051/1081	D120	IR 90	571+58.00	571+58.00	RT			59															1												
1051/1081	D118	IR 90	571+58.00	573+57.00	RT					199																									1
1051/1082	D110	IR 90	573+95.00	574+00.00	LT			68															1												
1051/1082	D108	IR 90	574+00.00	573+94.00	RT						63																							1	
		OUTFALL D																																	
1052/1084	D141	IR 90	584+54.00	585+25.00	LT/RT																142														1
1052/1084	D141A	IR 90	585+25.00	585+72.00	LT/RT																90													1	
1052/1084	D148	IR 90	587+40.00	590+00.00	RT																259														1
1053/1086	D168	IR 90	600+90.00	603+02.00	RT																212													1	
1054/1087	202A	IR 90	614+00.00	615+50.00	RT															155														1	
1055/1088	D219	IR 90	620+00.00	621+56.00	RT												156																		1
1056/1091	D300	IR 90 WB	42+77.00	44+58.00	RT														181															1	
1057/1092	D316	IR 90 WB	51+06.00	53+62.00	RT							256																						1	
1057/1093	D337	IR 90 EB	60+52.00	60+62.00	LT			123																					1						
1052/1094	D135	IR 90	583+29.00	583+24.00	RT/LT					72															1									1	
1052/1094	D134	IR 90	583+24.00	583+29.00	LT					66														1											
1052/1095	D151	IR 90	590+00.00	590+00.00	RT			50																											1
1052/1095	D150	IR 90	590+15.00	590+57.00	LT			102																1											
1053/1096	D162	IR 90	600+90.00	600+90.00	RT			65																1											
1053/1096	D165	IR 90	600+90.00	600+90.00	LT			70																			1								
1053/1096	D169	IR 90	603+01.00	603+02.00	RT			57															1												
1053/1096	D177	IR 90	603+02.00	603+01.00	LT			68															1												
1053/1097	D180	IR 90	603+01.00	603+78.00	LT			68																1											
1054/1098	D190	IR 90	611+75.00	612+00.00	LT/RT				85															1											
1055/1099	D204	IR 90	616+36.00	616+36.00	LT/RT					85													1												
1055/1099	D197	IR 90	616+36.00	616+36.00	RT			66															1												
1055/1099	D198	IR 90	615+70.00	615+50.00	RT			75																		1									
1055/1100	D199	IR 90	616+36.00	617+03.00	RT	6		80																1											
1055/1099	D205	IR 90	615+30.00	615+56.00	LT			92															1												
1055/1099	D207	IR 90	617+28.00	617+10.00	LT			88																		1									
1055/1101	D213	IR 90	618+13.00	618+15.00	LT												102									1									
1055/1102	D234	IR 90	621+59.00	621+56.00	LT/RT	6				99																1									
1055/1102	D220	IR 90	621+56.00	621+46.00	RT					69																					1				
1056/1106	D262	IR 90	629+50.00	629+50.00	LT					91																1									
1056/1106	D246	IR 90	629+58.00	629+59.00	RT				59																		1								
1057/1109	D285	IR 90 WB	42+77.00	43+25.00	LT					90													1												
1057/1111	D302	IR 90 EB	44+55.00	44+40.00	RT				106														1												
1058/1113	D320	IR 90 EB	55+08.00	54+95.00	RT		11		158																								1		
1058/1113	D323	IR 90 WB	54+95.00	55+04.00	LT				90																						1				
1054/1098	D1182	IR 90	611+75.00	611+75.00	RT			87																1											
		OUTFALL E																																	
1059/1115	D400	IR 90 EB	65+09.00	65+00.00	RT				136															1											
1059/1116	D365	IR 90	678+15.00	678+15.00	RT								92																					1	
1059/1117	D359	IR 90	678+15.00	678+15.00	RT									143																				1	
		OUTFALL M																																	
1064/1124	D865	IR 90	732+39.00	734+50.00	LT										211																			1	
1067/1128	D775	IR 90	768+00.00	768+52.00	LT															147														1	
1063/1131	D912	IR 90	718+46.25	718+50.00	LT			87																					1						
1063/1132	D904	IR 90	722+50.00	722+40.00	RT				127														1												
1063/1133	D903	IR 90	722+40.00	722+00.00	LT			103																					1						
1064/1136	D871	IR 90	730+22.00	730+34.00	RT						114																		1						
1064/1136	D866	IR 90	732+34.00	732+39.00	LT			102																						1					
1065/1137	D858	IR 90	735+76.00	735+76.00	LT					138														1											
1065/1138	D841	IR 90	741+57.00	741+56.00	RT					134																								1	
1065/1138	D840	IR 90	741+56.00	741+50.00	LT			85																					1						
TOTALS CARRIED TO SHEETS 346 & 347						12	11	1665	761	1043	177	256	92	143	211	258	181	147	155	703	10	1	7	1	1	5	2	5	2	2	1		12	5

R4 R5 R5 R5 R5 R5 R5 R5 R5 R5 R5 R5 R5 R5

CUY-90-6.69

MODEL: Sheet 9A PAPERSIZE: 34x22 (in.) DATE: 4/7/2025 TIME: 10:35:11 AM USER: aoldaker
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

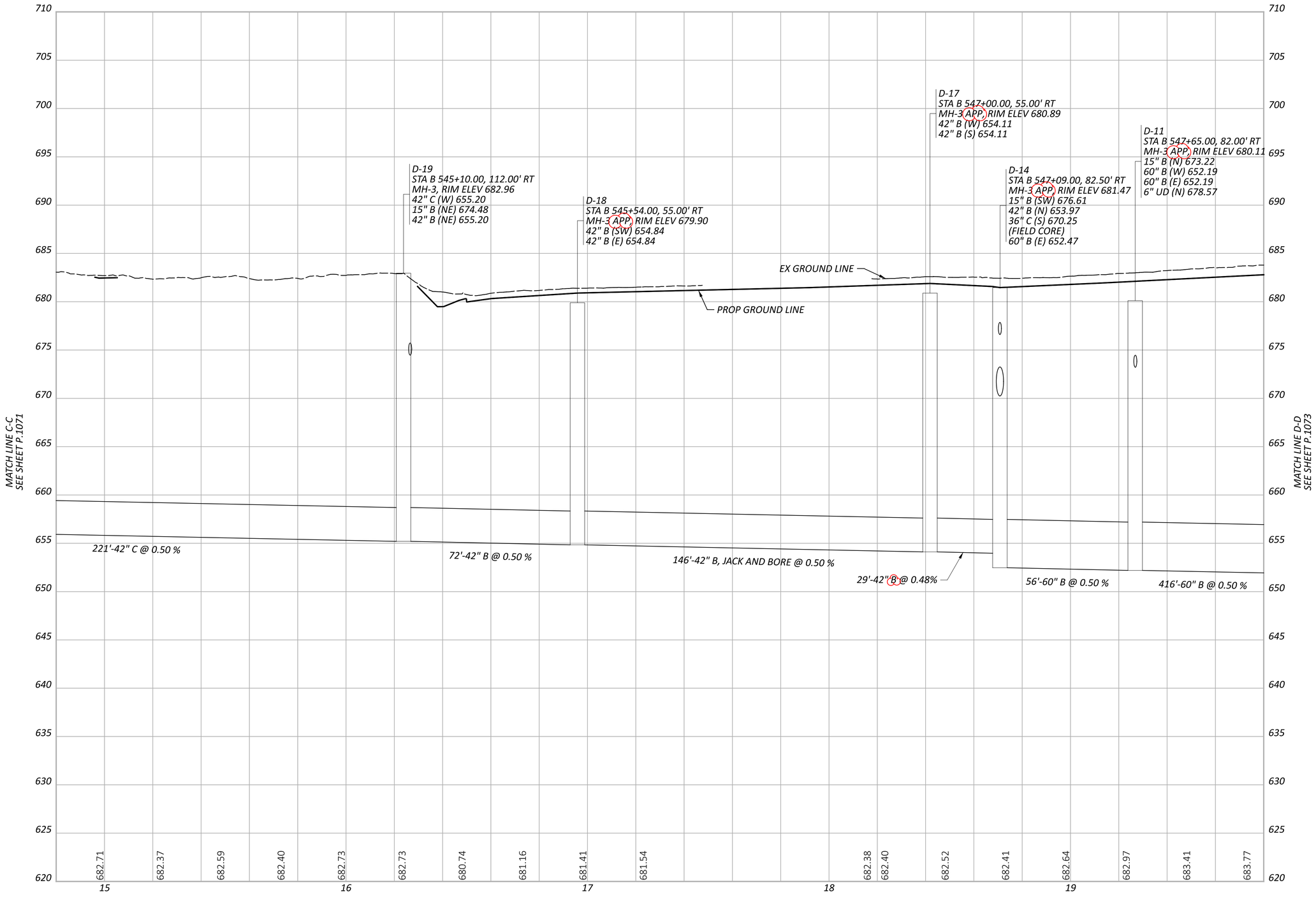
REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0359A TOTAL P.1587

NOTES:

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



STORM SEWER PROFILES
OUTFALL B

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: AJO

REVIEWER: KEM 08/09/23

PROJECT ID: 76779

SHEET P.1072 TOTAL P.1587

CUY-90-6.69

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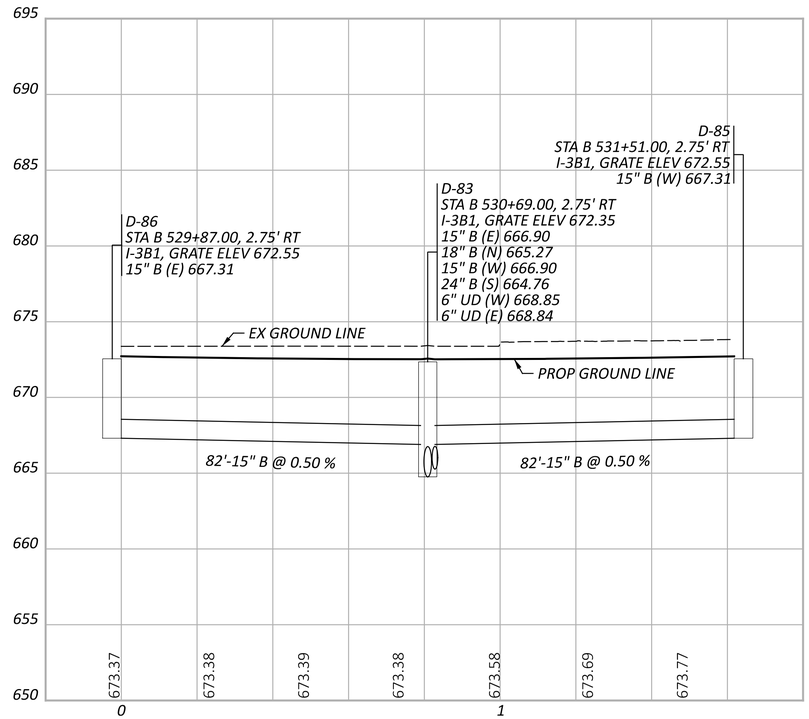
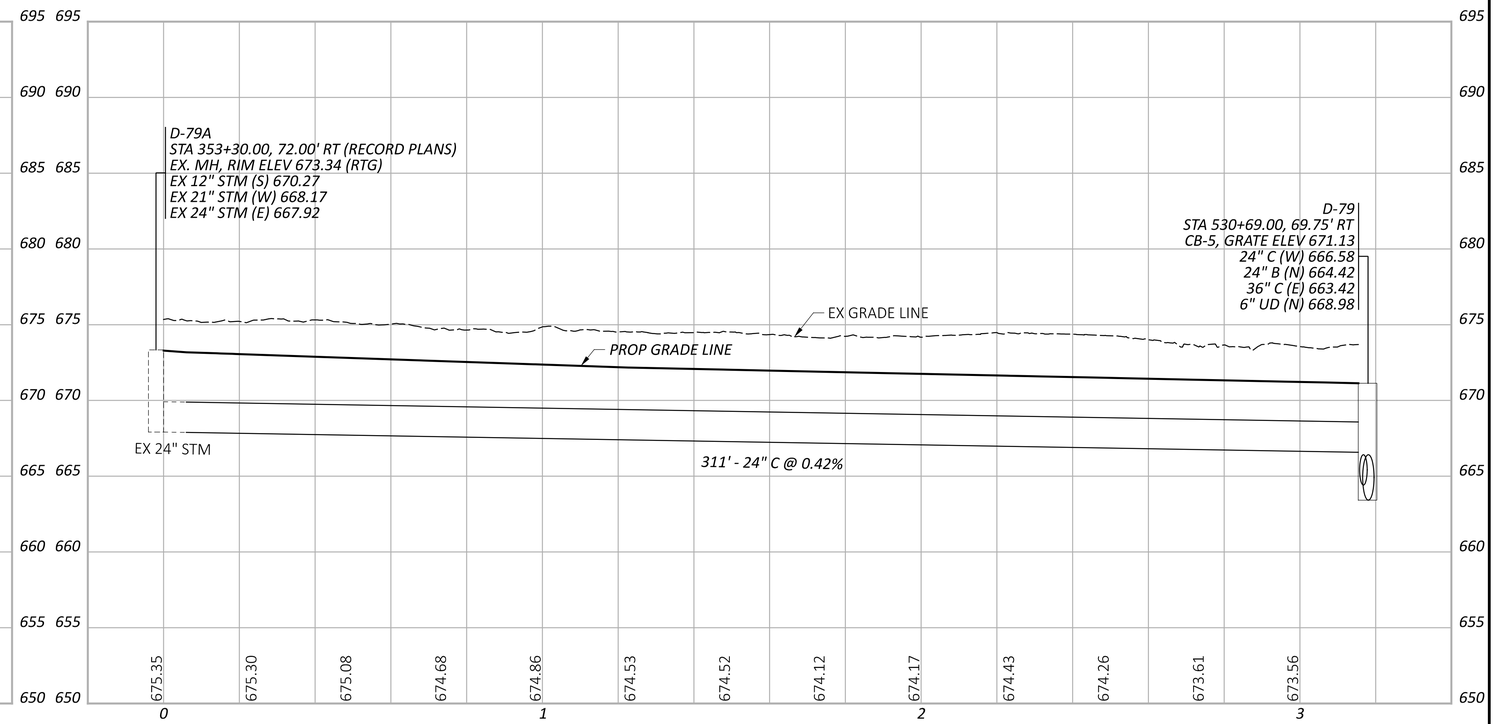
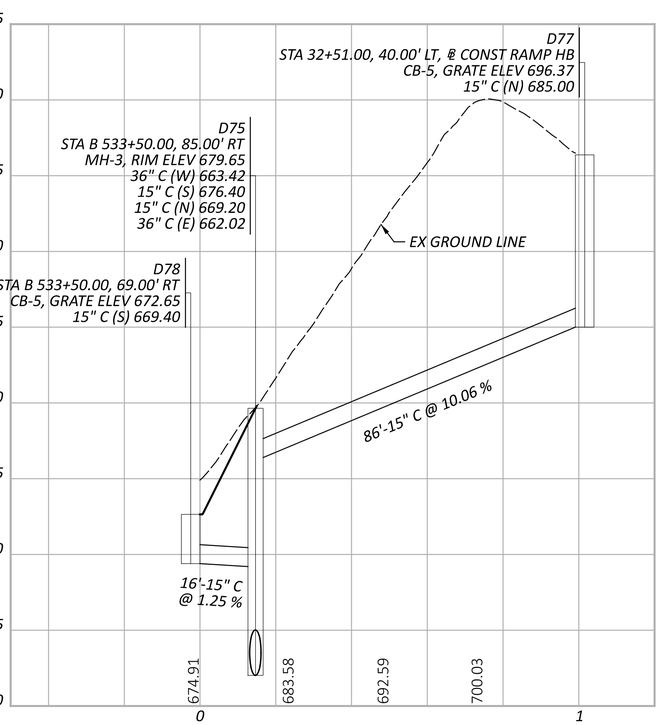
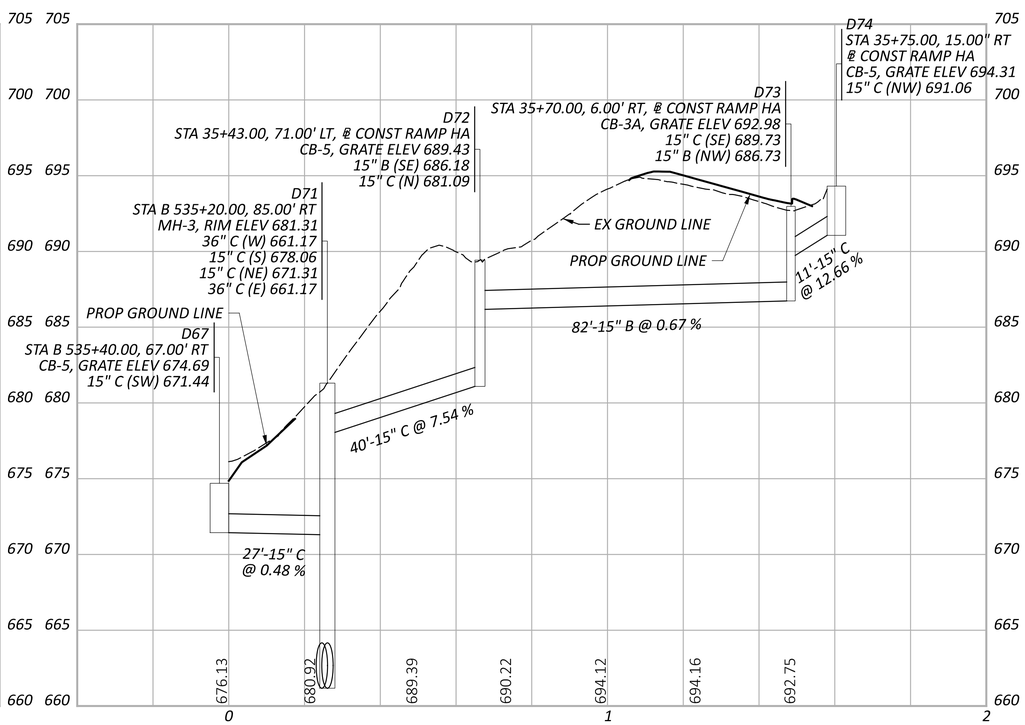
NOTES:

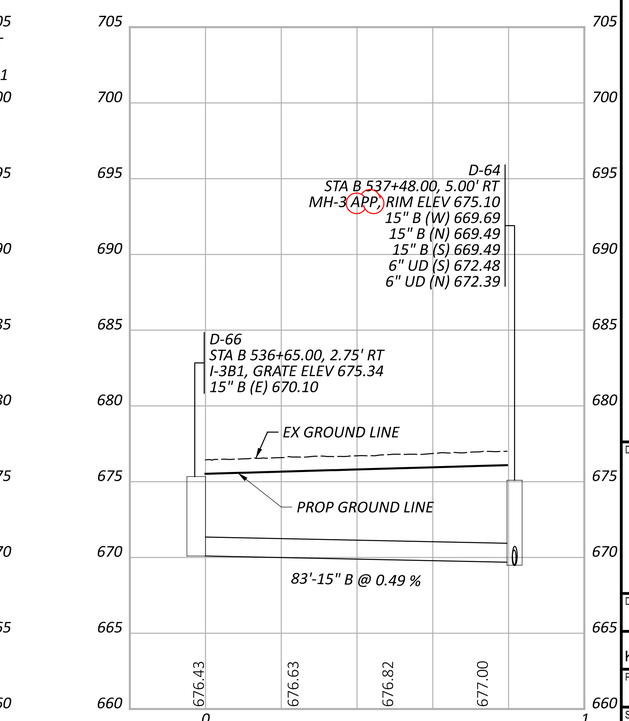
1. ALL STATIONING TAKEN FROM ℄ CONST IR 90 UNLESS OTHERWISE NOTED
2. FOR DRAINAGE PLAN SHEETS, SEE SHEET P.1047 - P.1067
3. ALL EXISTING CONNECTIONS TO BE CORED IN THE FIELD
4. ALL PROPOSED PIPES TO BE CONNECTED TO EXISTING SHALL BE FITTED WITH A MASONRY COLLAR PER SCD DM-1.1. COST INCLUDED IN THE UNIT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











STORM SEWER PROFILES
OUTFALL B

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1075 TOTAL P.1587

CUY-90-6.69

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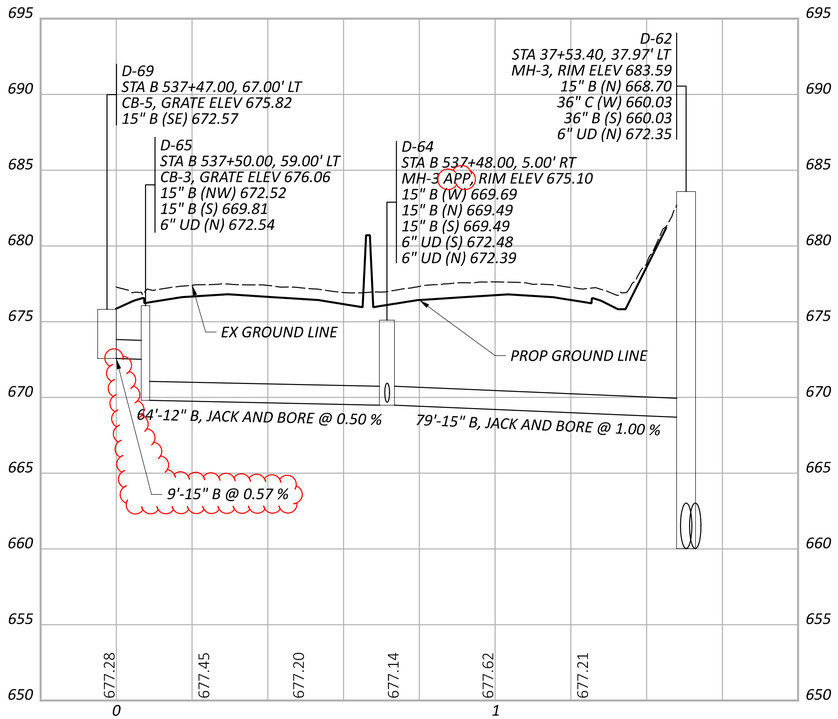
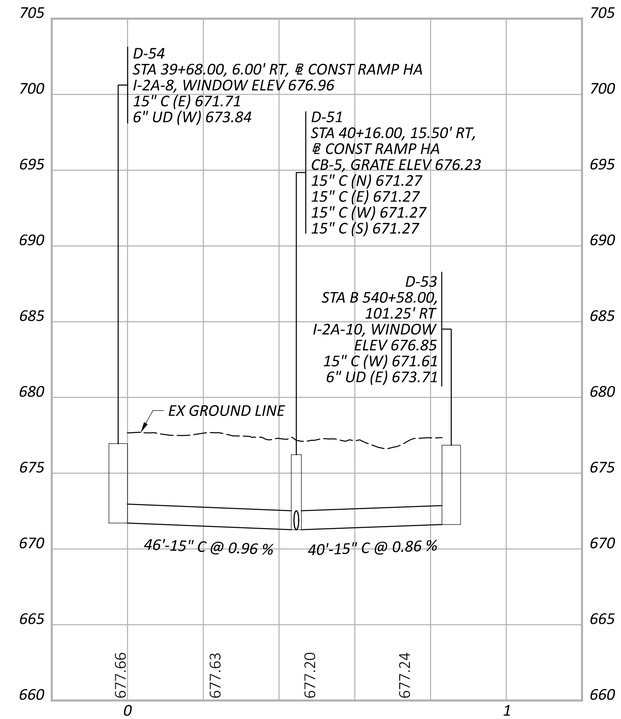
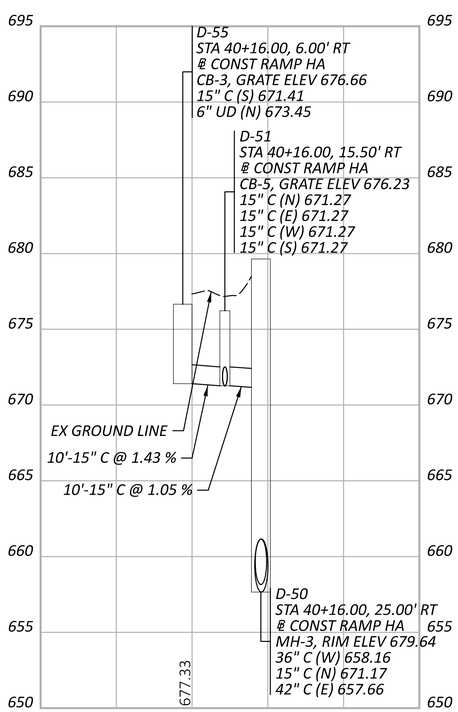
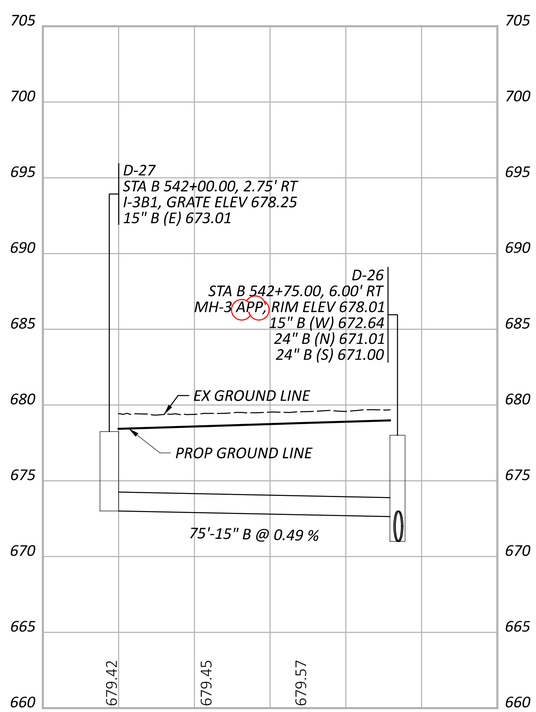
NOTES:

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









STORM SEWER PROFILES
OUTFALL B

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

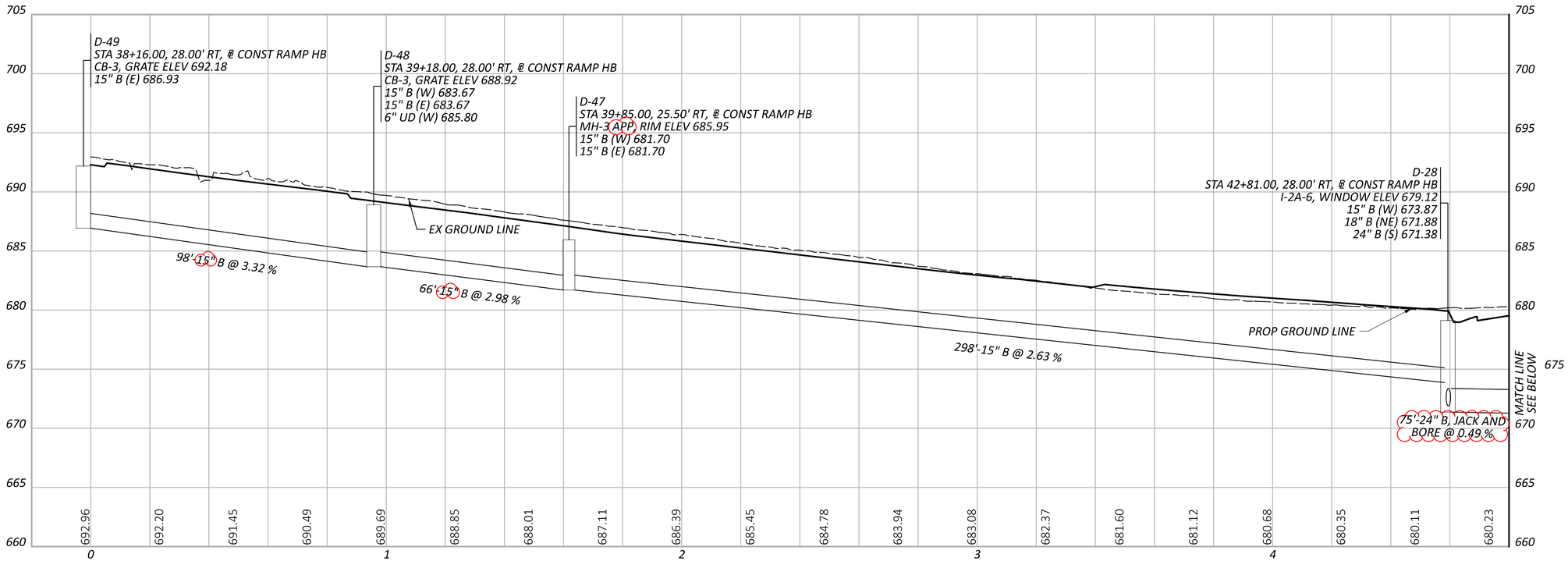
SHEET P.1076 TOTAL P.1587

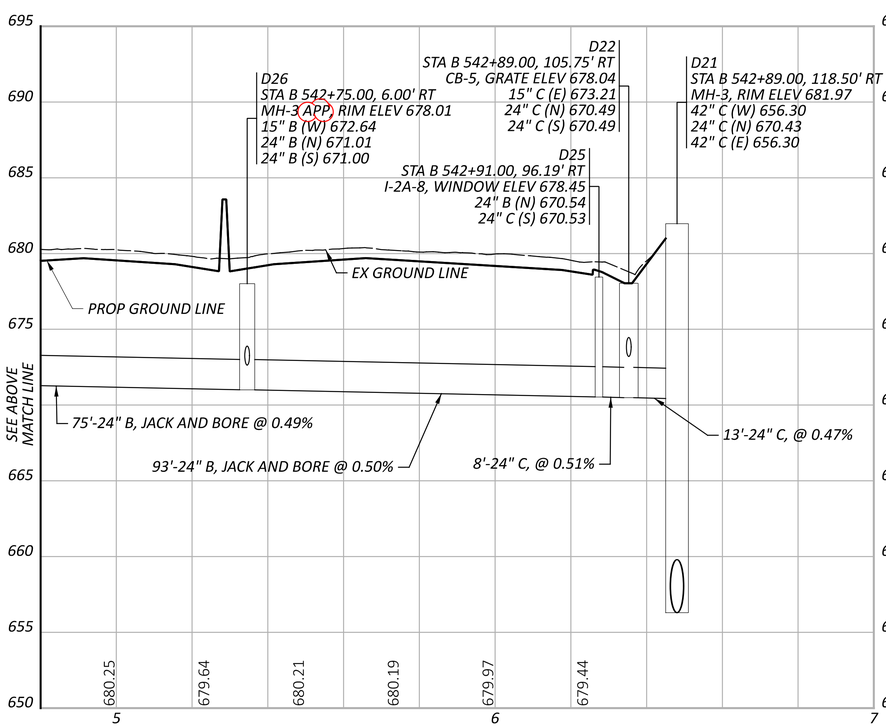
CUY-90-6.69

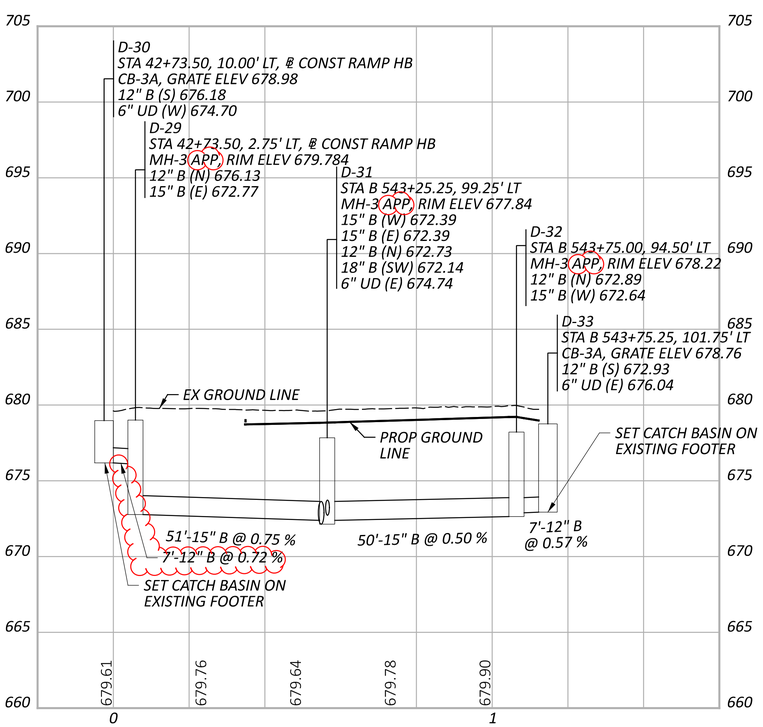
MODEL: B_Branches - 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/5/2025 TIME: 4:26:45 PM USER: AOLDAKER
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\20200062\76779\400-Engineering\Drainage\Sheets\76779_DF032.dgn

NOTES:

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







STORM SEWER PROFILES
OUTFALL B

DESIGN AGENCY: STRUCTUREPOINT INC.

DESIGNER: AJO

REVIEWER: KEM 08/09/23

PROJECT ID: 76779

SHEET: P.1077 TOTAL: P.1587

CUY-90-6.69

MODEL: B_Branches - 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/5/2025 TIME: 4:26:46 PM USER: AOLDAKER
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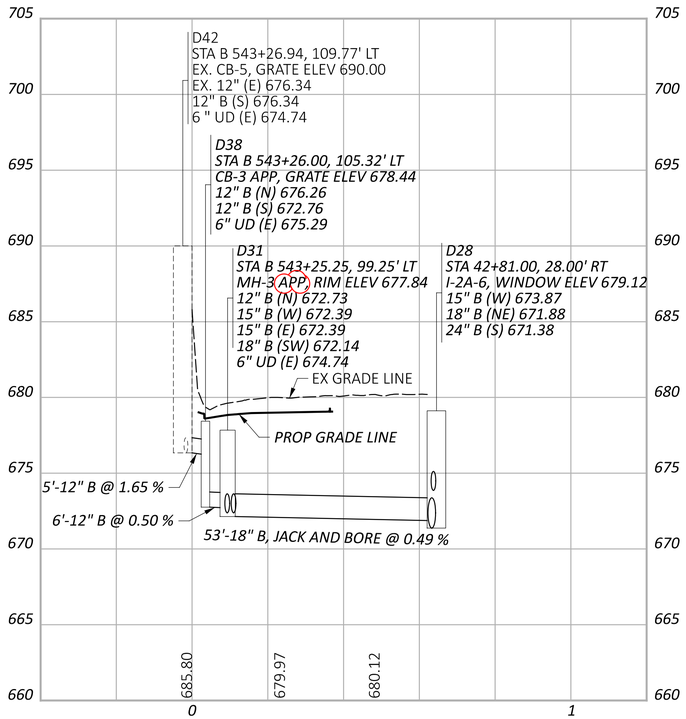
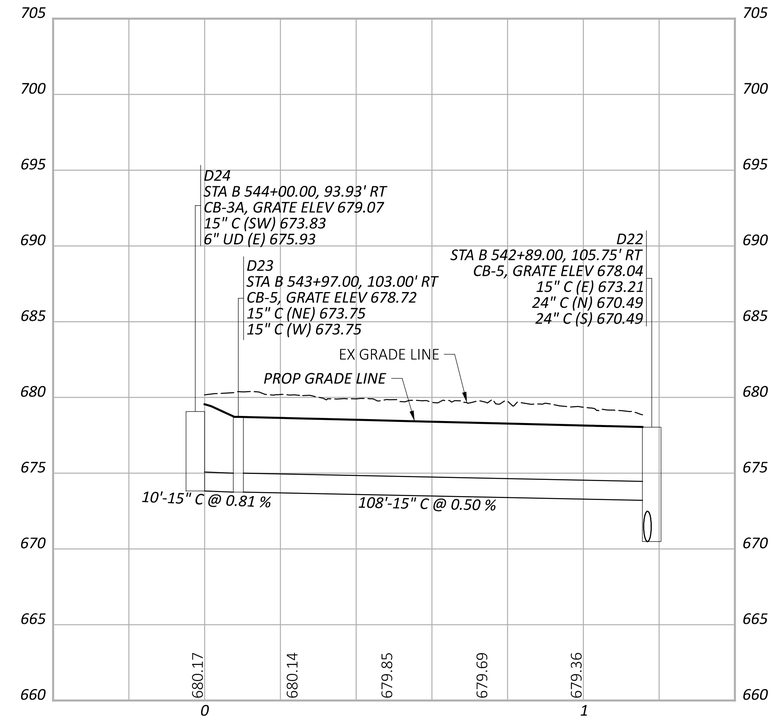
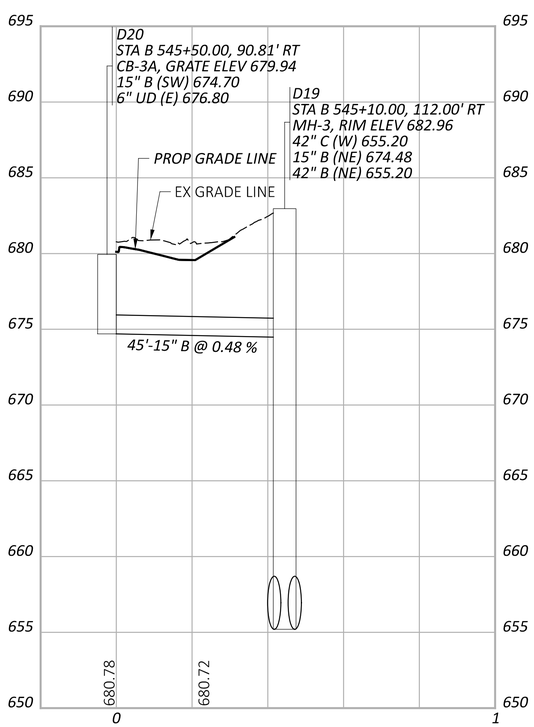
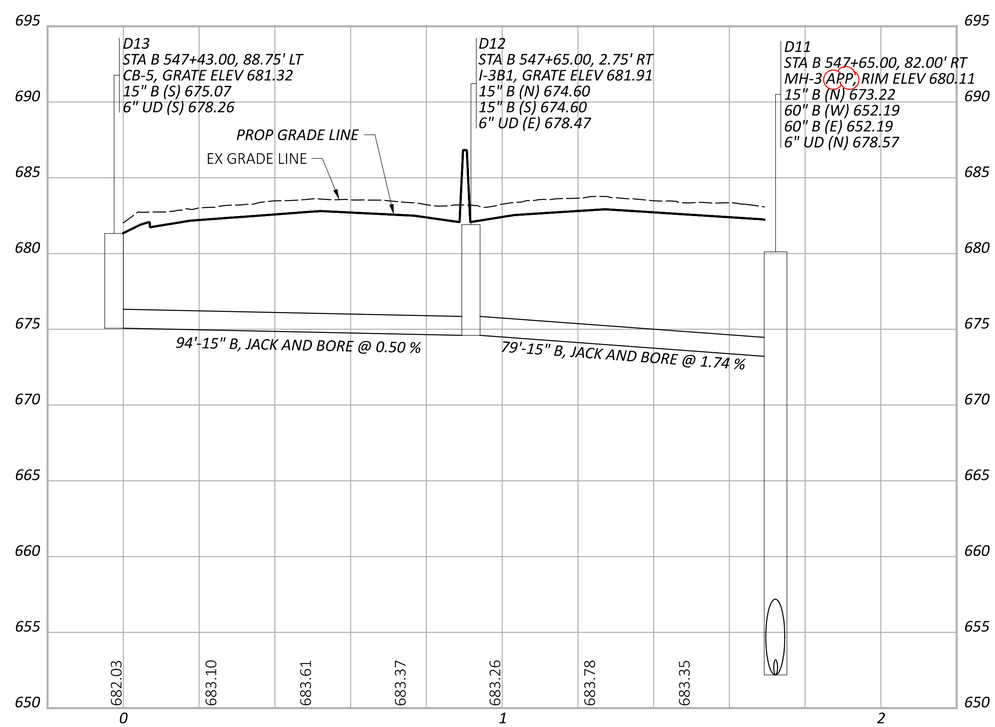
NOTES:

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









STORM SEWER PROFILES
OUTFALL B

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1078 TOTAL P.1587

CUY-90-6.69

MODEL: B_Branches - 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/5/2025 TIME: 8:21:19 PM USER: aoldaker
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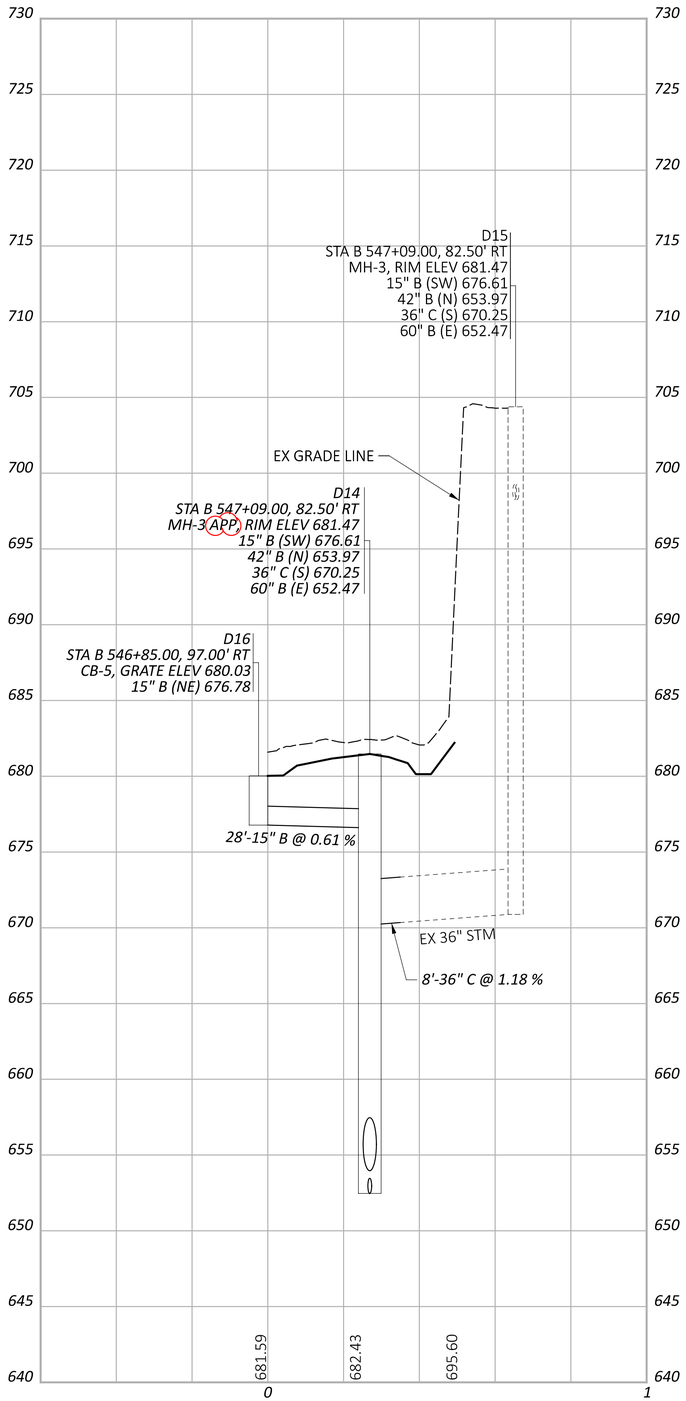
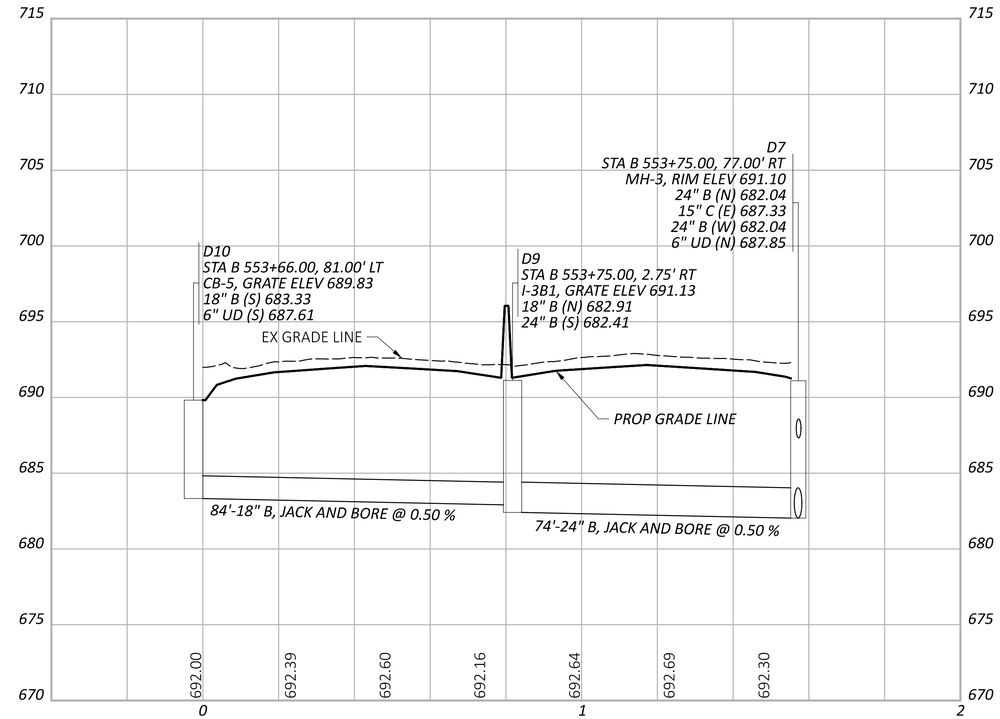
NOTES:

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





STORM SEWER PROFILES
OUTFALL B

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1079 TOTAL P.1587

CUY-90-6.69

MODEL: B_Branches - 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/5/2025 TIME: 8:24:27 PM USER: aoldaker
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NOTES:

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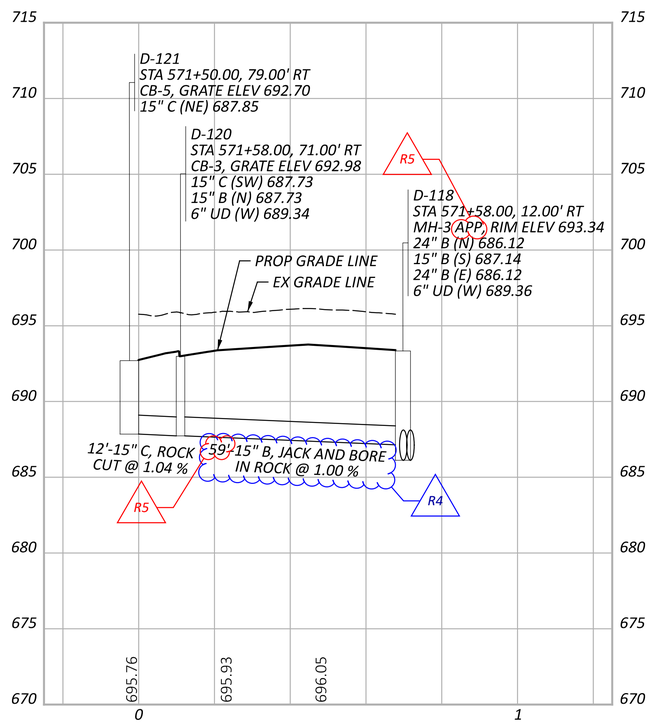

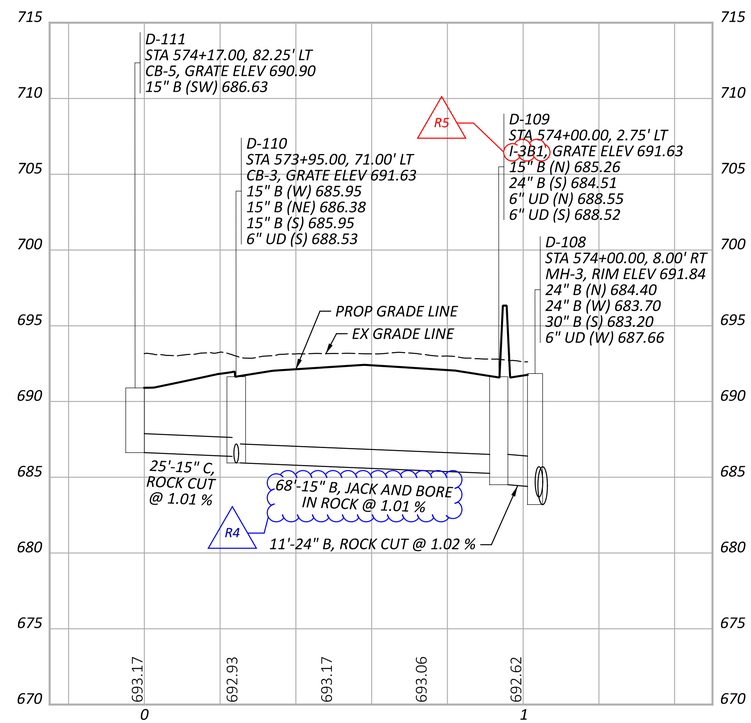

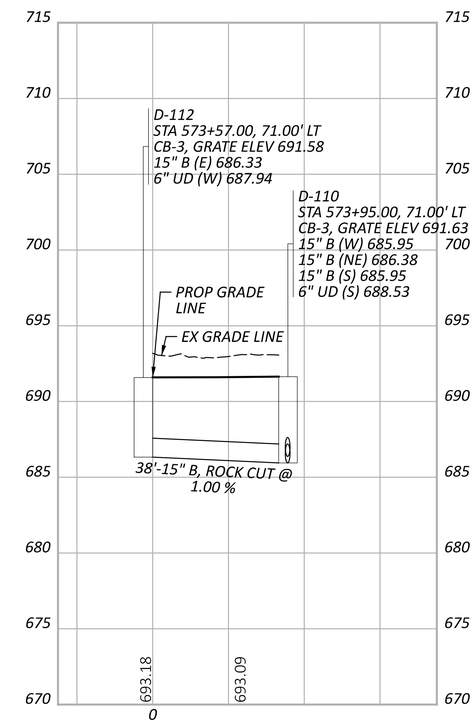

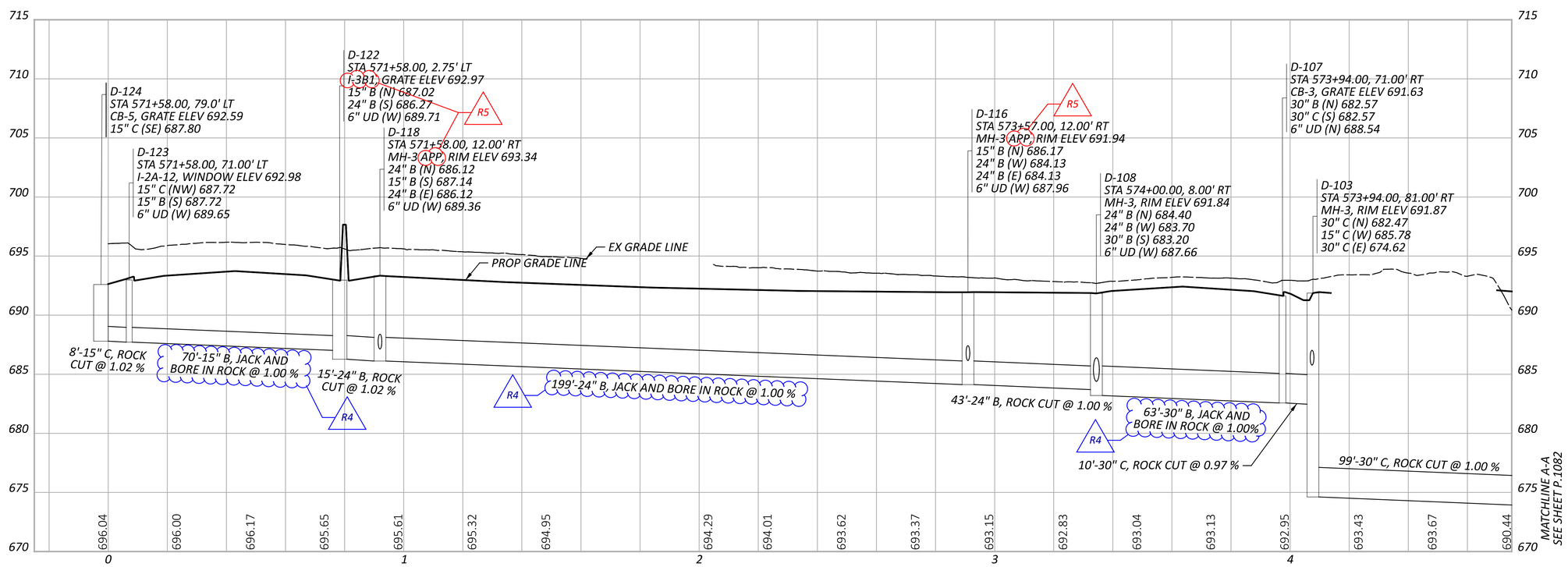

MATCHLINE A-A
SEE SHEET P.1082

STORM SEWER PROFILES
OUTFALL C

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1081 TOTAL P.1587

CUY-90-6.69

MODEL: PR_C_000 - Profile [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/7/2025 TIME: 10:04:29 AM USER: aoldaker
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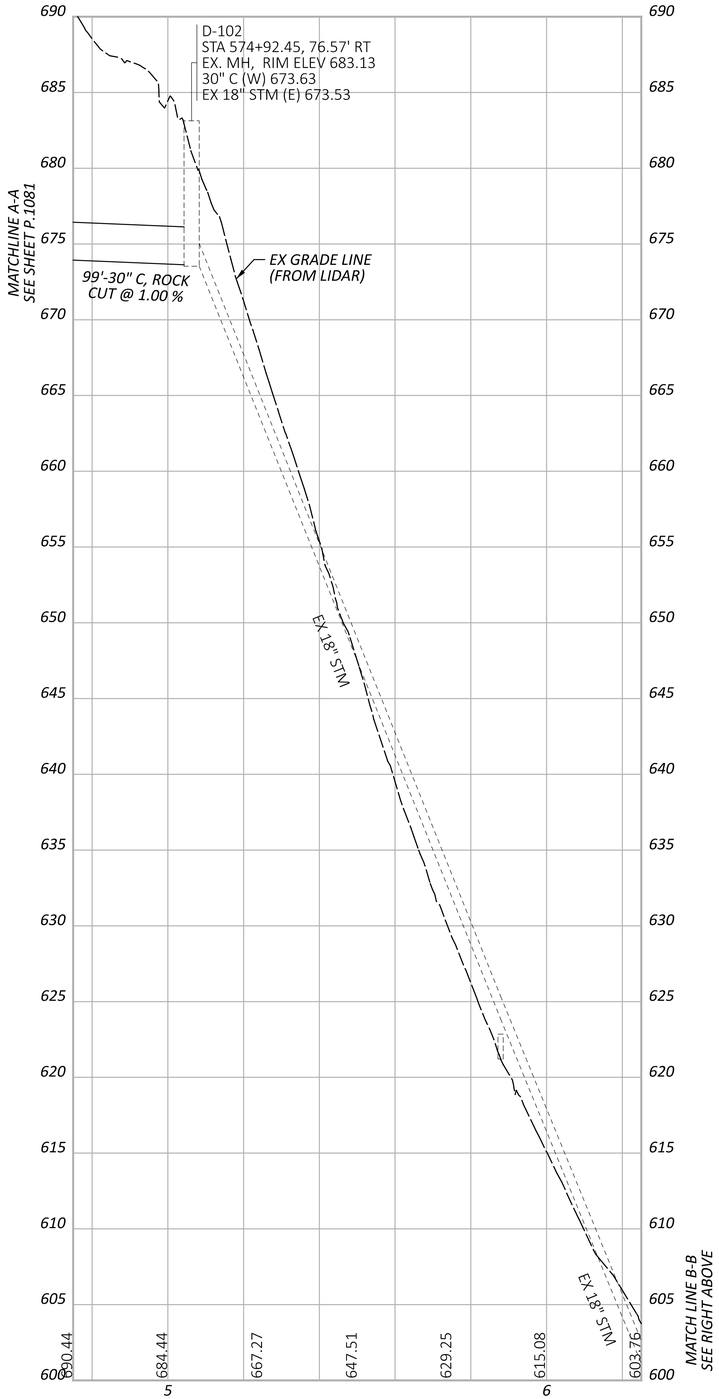
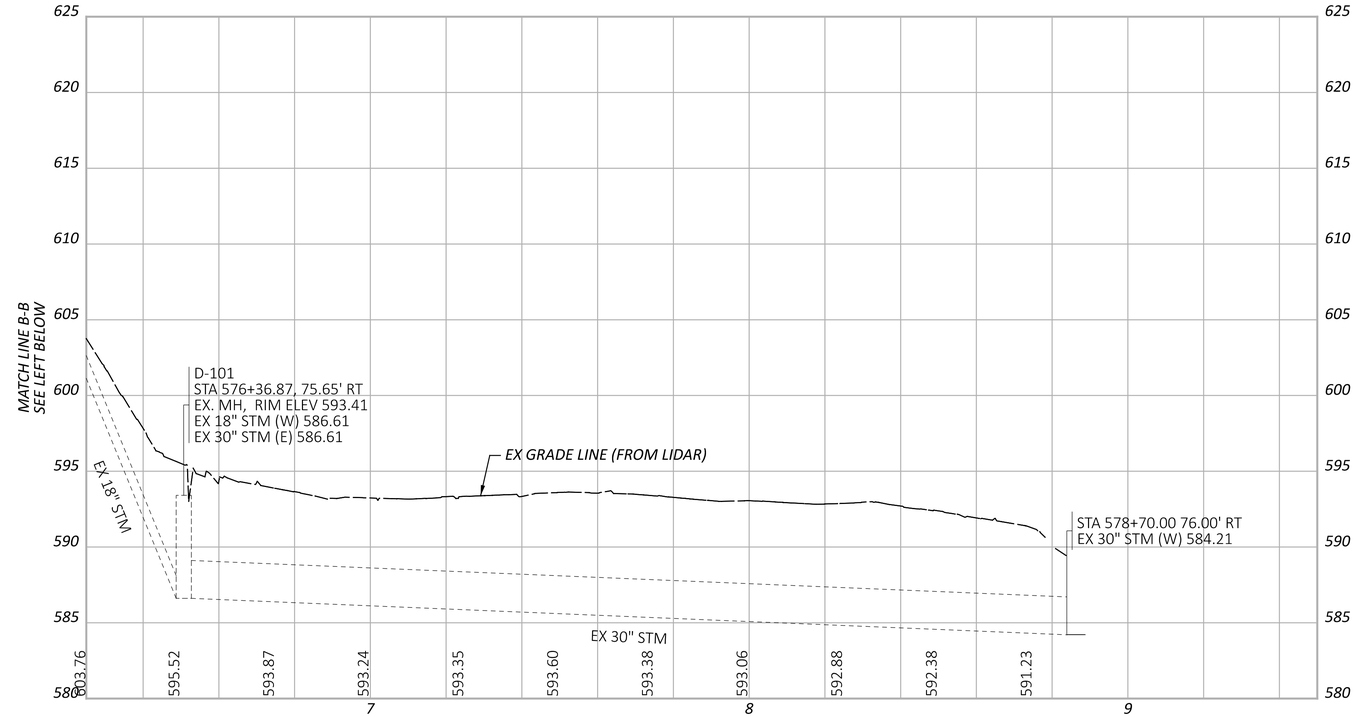
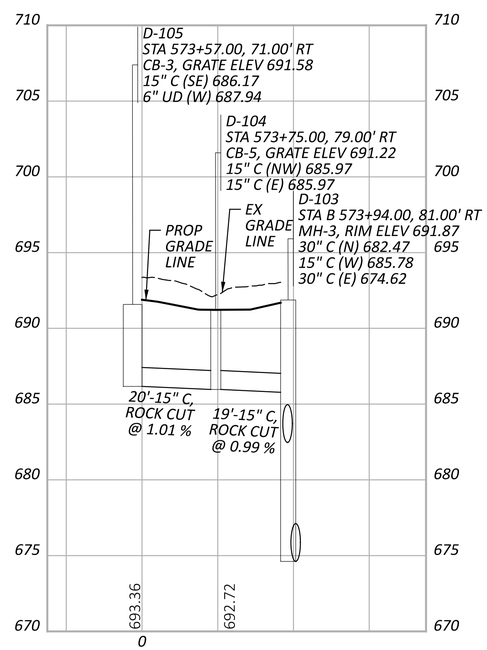
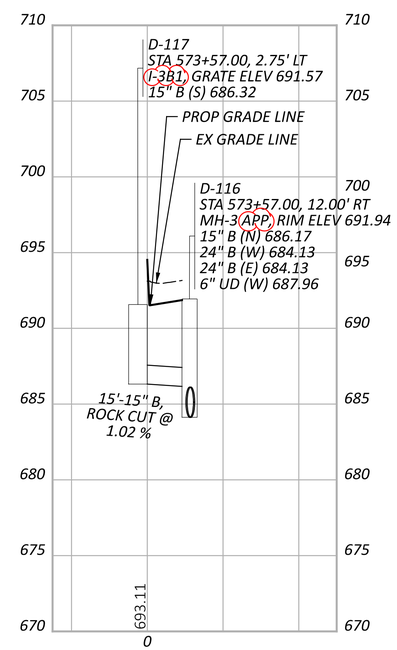
NOTES:

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









STORM SEWER PROFILES
OUTFALL C

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER: AJO
REVIEWER: KEM 08/09/23
PROJECT ID: 76779
SHEET: P.1082 TOTAL: P.1587

CUY-90-6.69

MODEL: PR_C_001 - Profile 1-1(Sheet) PAPERSIZE: 34x22 (in.) DATE: 4/5/2025 TIME: 8:31:30 PM USER: aoldaker
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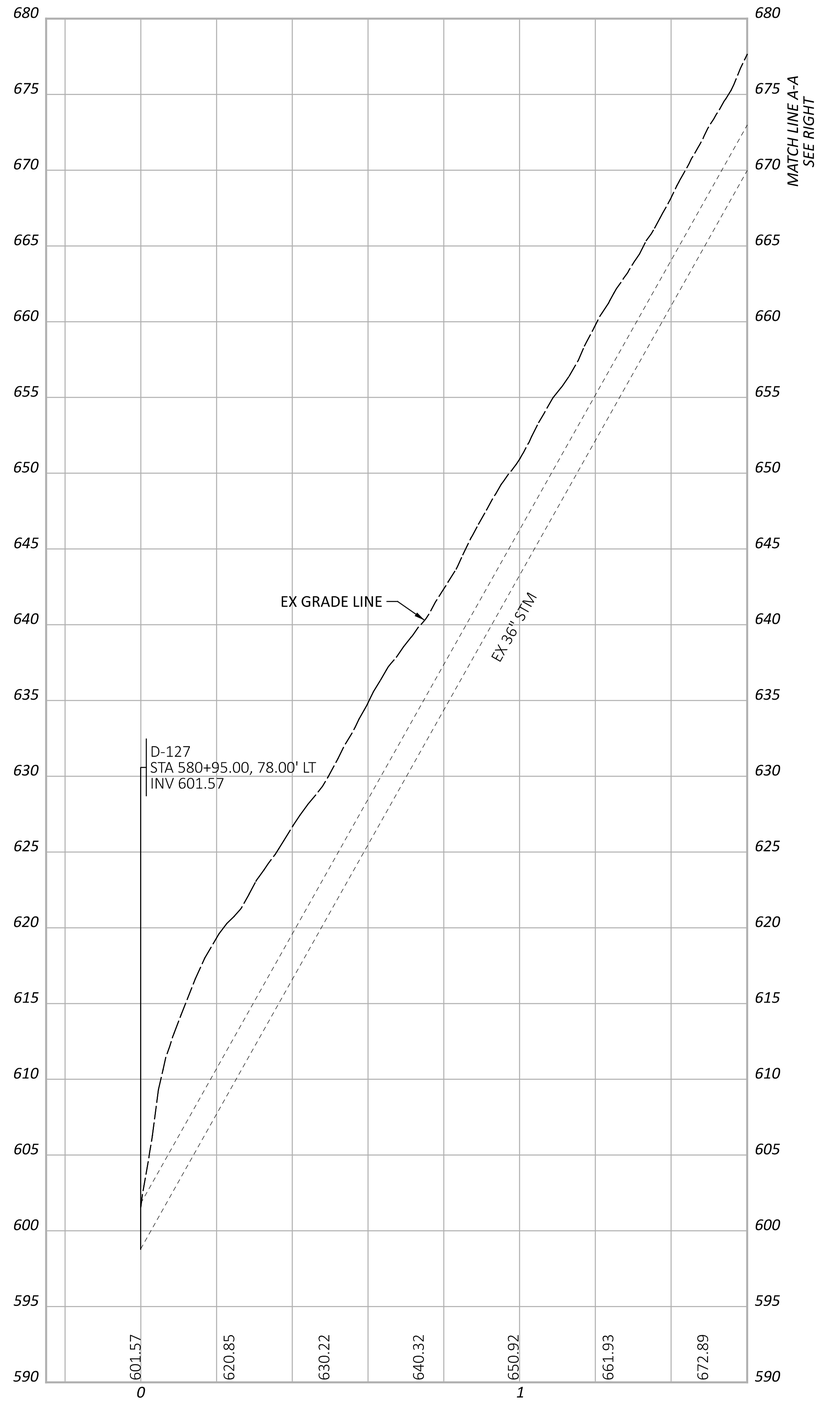
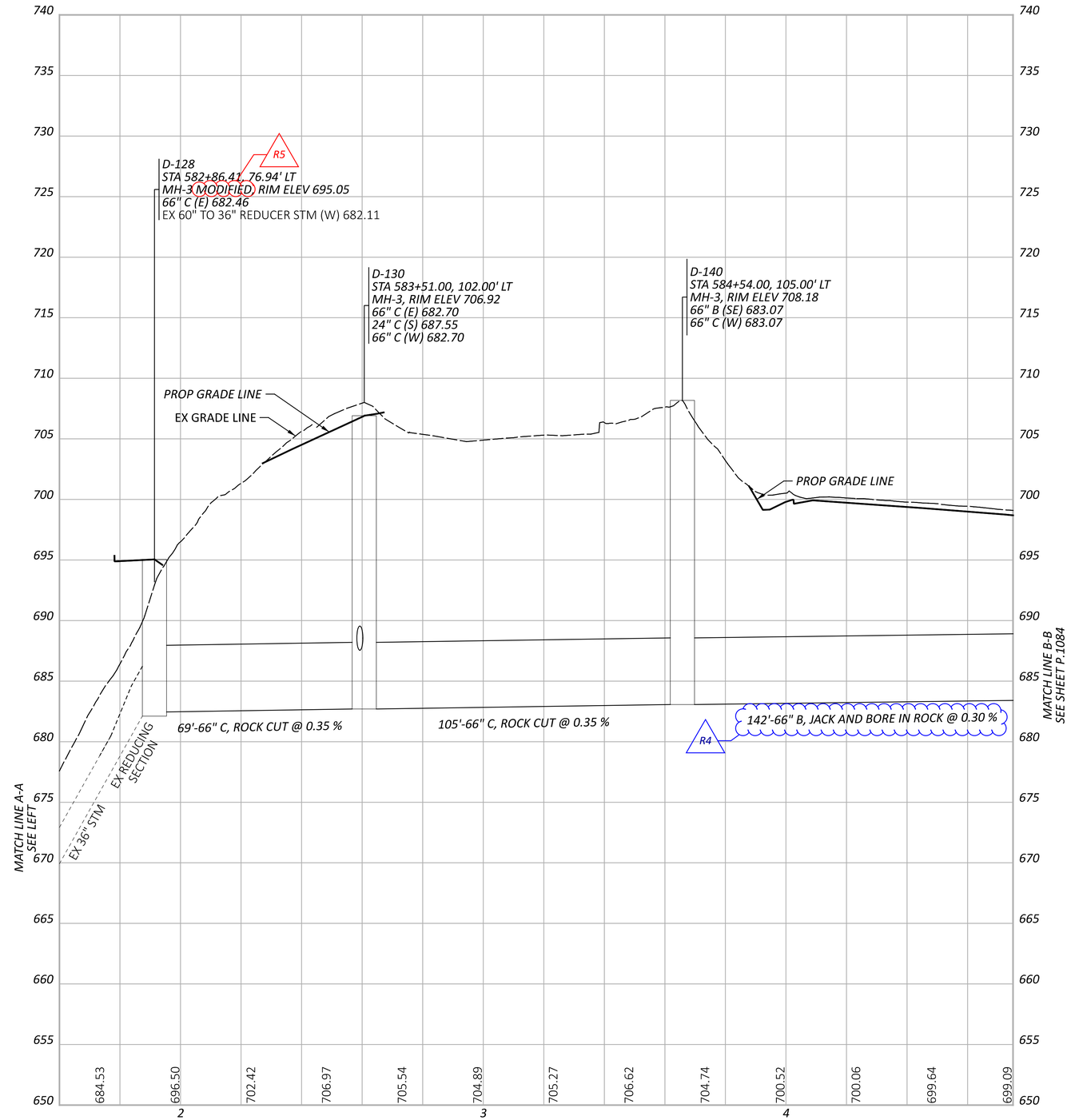
NOTES:

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





STORM SEWER PROFILES
OUTFALL D

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1083 TOTAL P.1587

CUY-90-6.69

MODEL: PR_D_000 - Profile (Sheet) PAPERSIZE: 34x22 (in.) DATE: 4/5/2025 TIME: 8:39:51PM USER: aoldaker
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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
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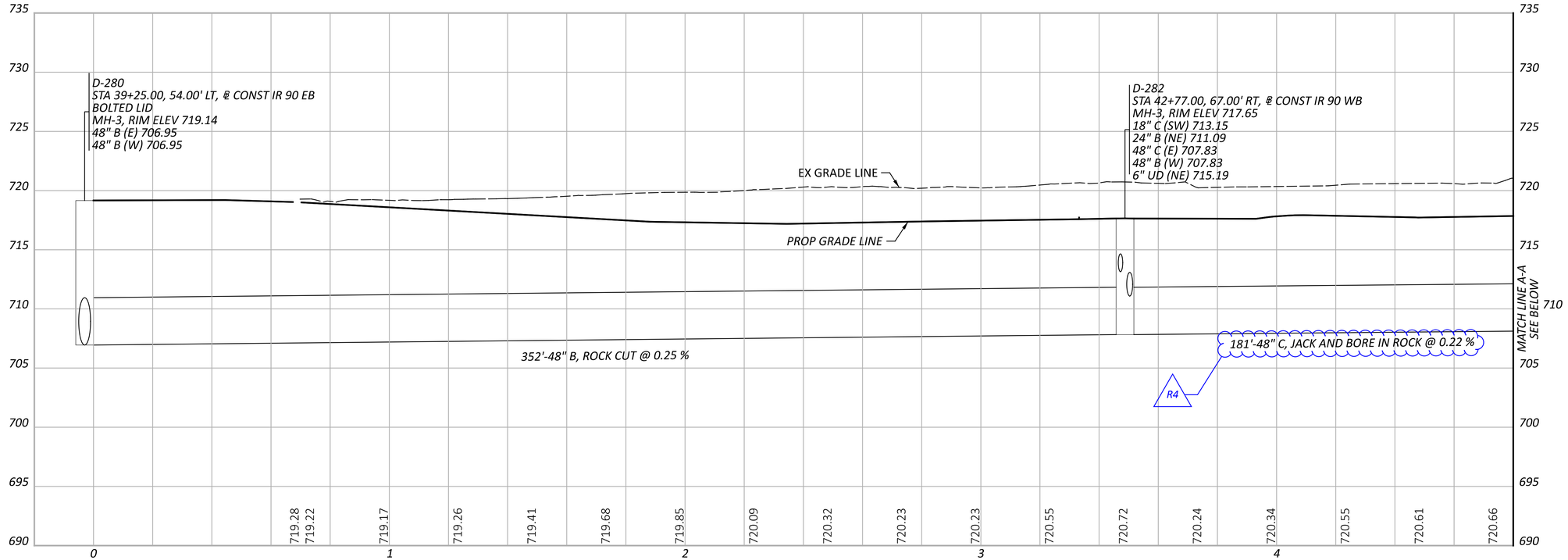

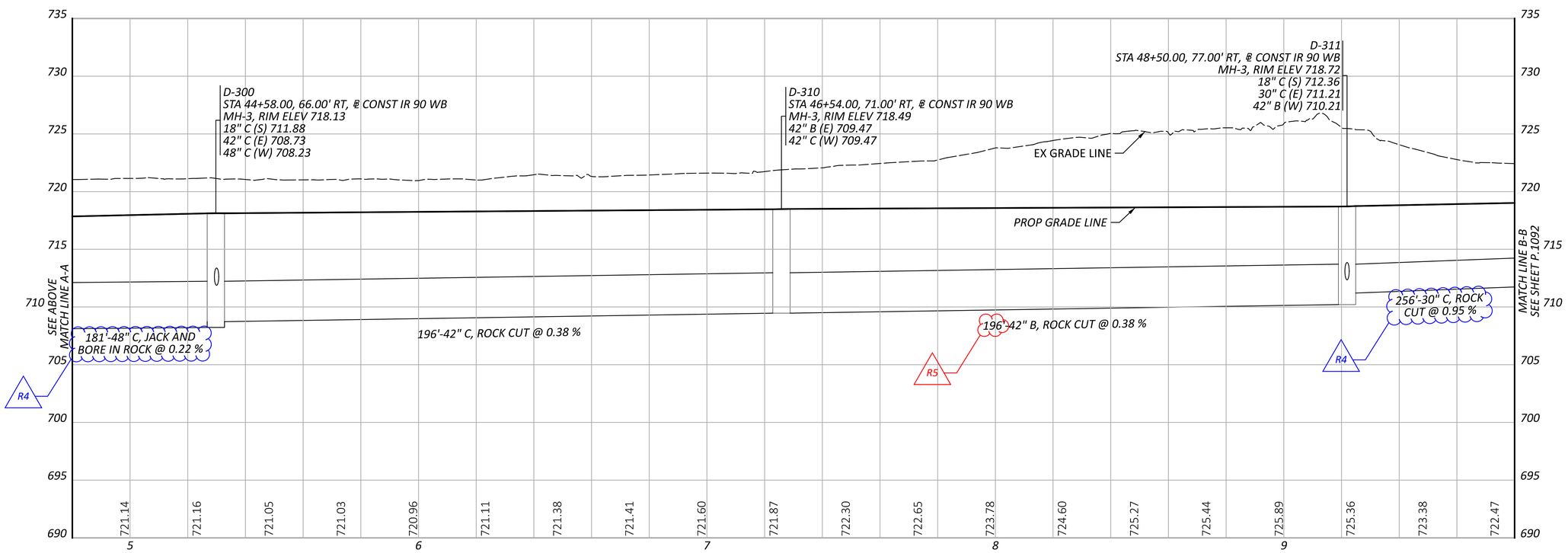

STORM SEWER PROFILES
OUTFALL D

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: AJO

REVIEWER: KEM 08/09/23

PROJECT ID: 76779

SHEET P.1091 TOTAL P.1587

CUY-90-6.69

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NOTES:

1. ALL STATIONING TAKEN FROM ℄ CONST IR 90 UNLESS OTHERWISE NOTED
2. FOR DRAINAGE PLAN SHEETS, SEE SHEET P.1047 - P.1067
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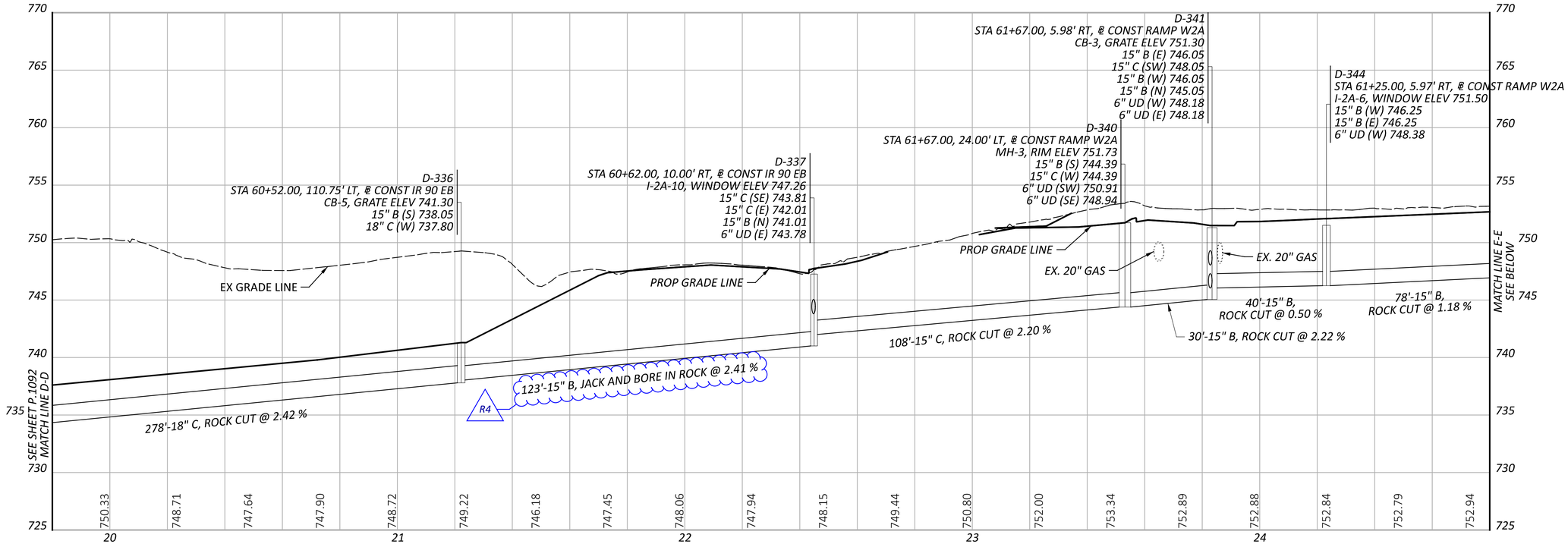

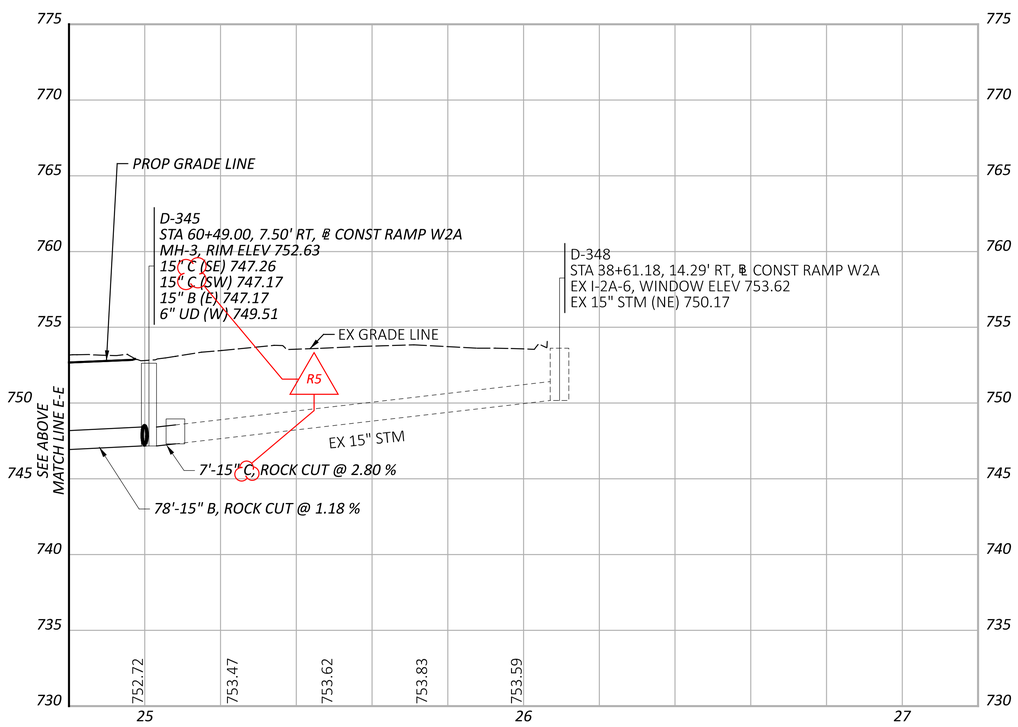

CUY-90-6.69

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STORM SEWER PROFILES
OUTFALL D

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: AJO

REVIEWER: KEM 08/09/23

PROJECT ID: 76779

SHEET P.1093 TOTAL P.1587

NOTES:

1. ALL STATIONING TAKEN FROM ℄ CONST IR 90 UNLESS OTHERWISE NOTED
2. FOR DRAINAGE PLAN SHEETS, SEE SHEET P.1047 - P.1067
3. ALL EXISTING CONNECTIONS TO BE CORED IN THE FIELD
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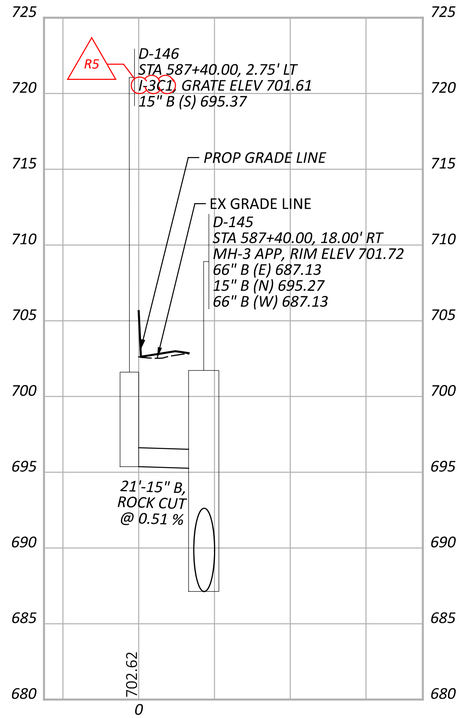

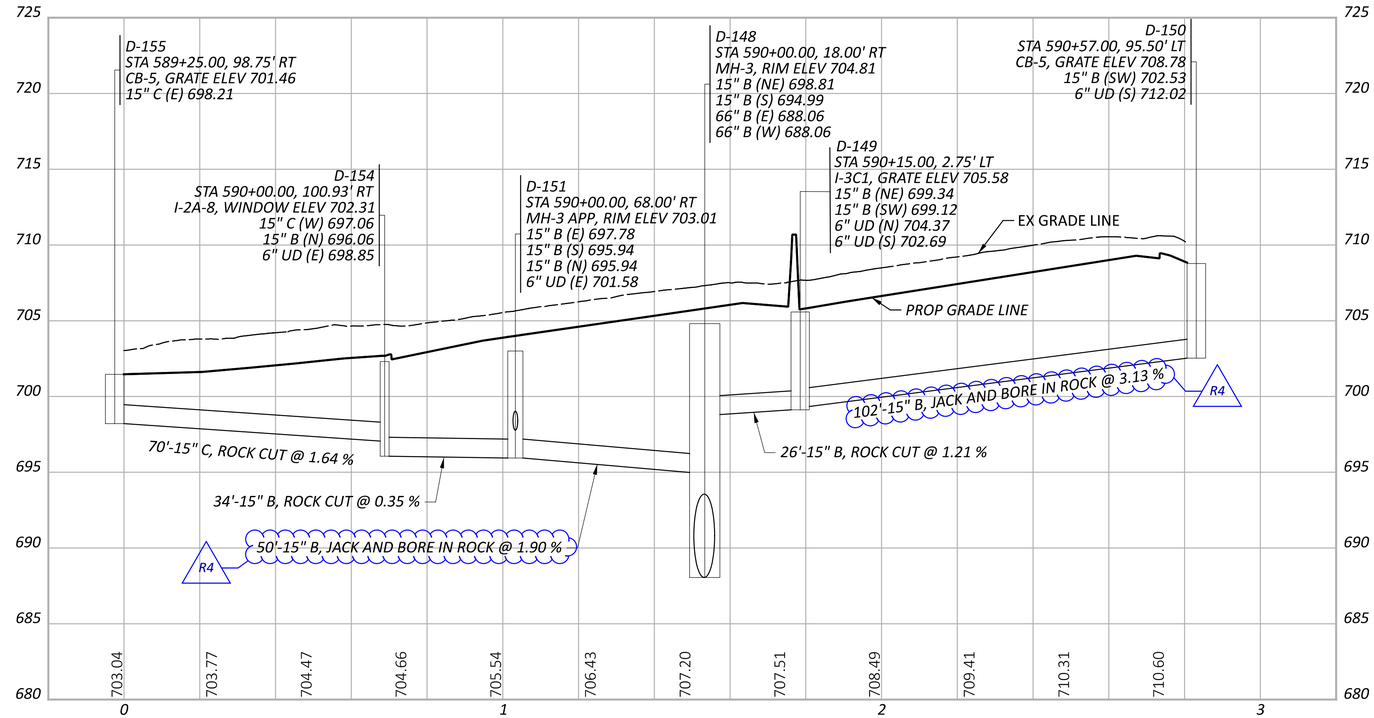

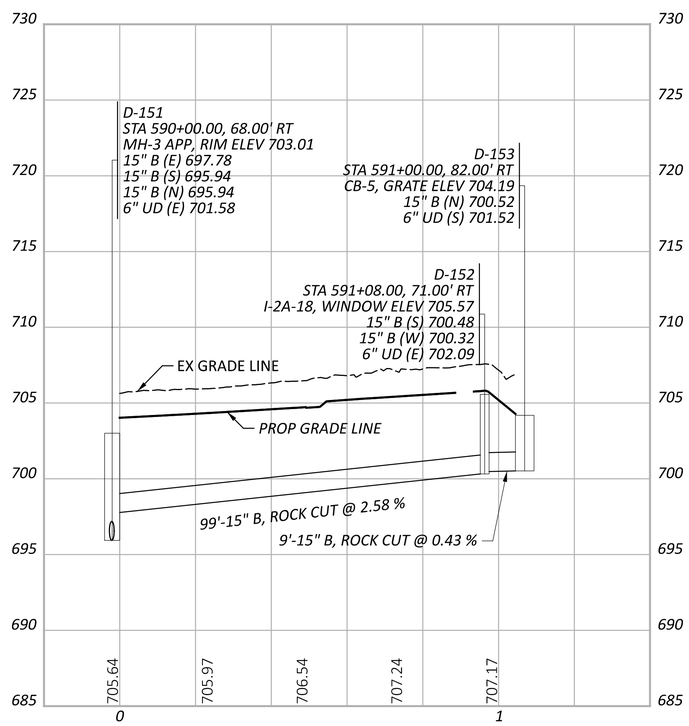

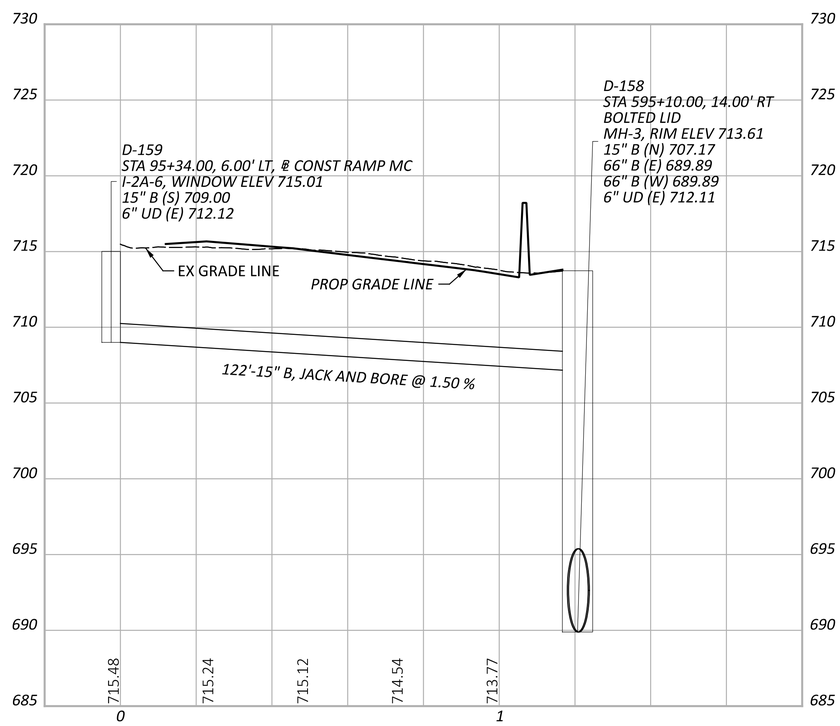

STORM SEWER PROFILES
OUTFALL D

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1095 TOTAL P.1587

CUY-90-6.69

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NOTES:

1. ALL STATIONING TAKEN FROM ℄ CONST IR 90 UNLESS OTHERWISE NOTED
2. FOR DRAINAGE PLAN SHEETS, SEE SHEET P.1047 - P.1067
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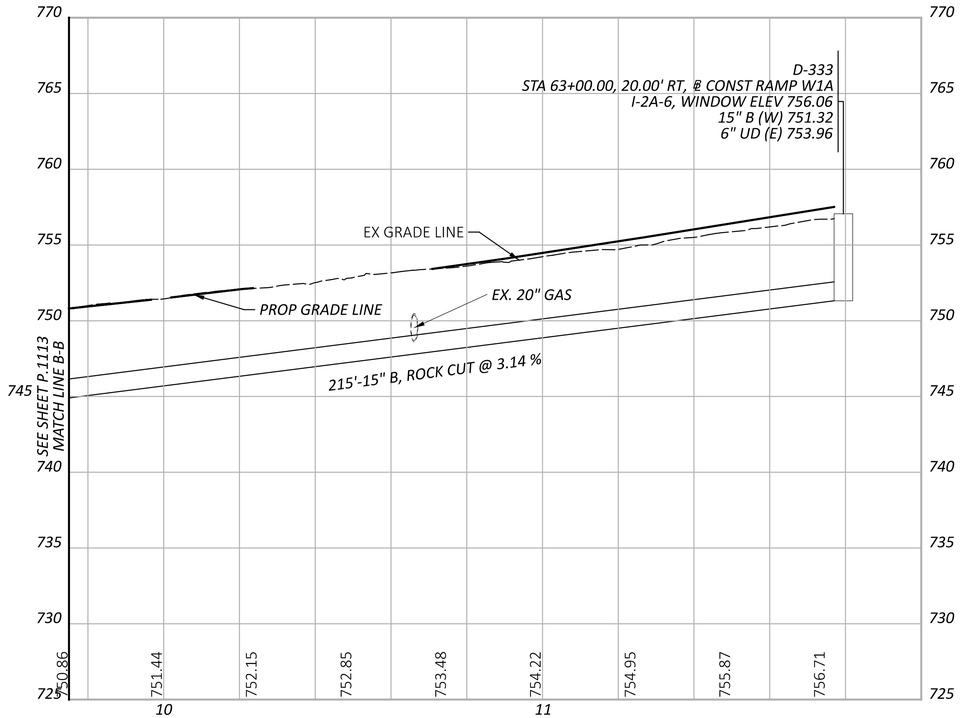

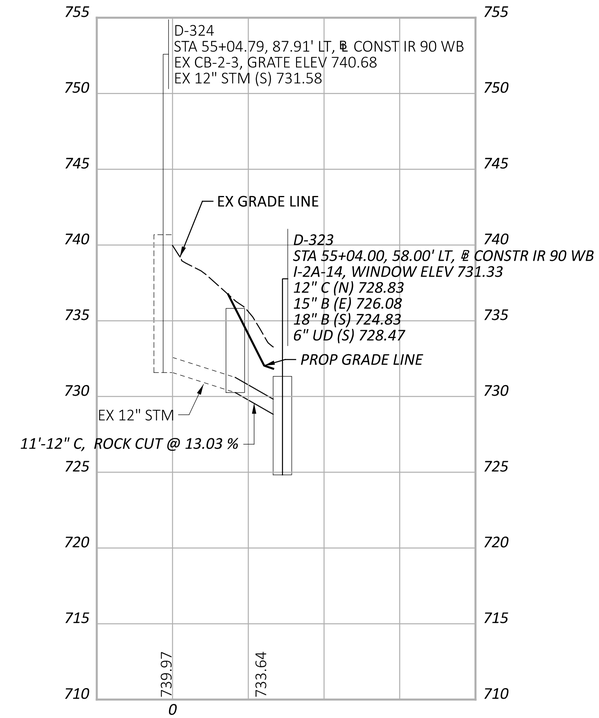

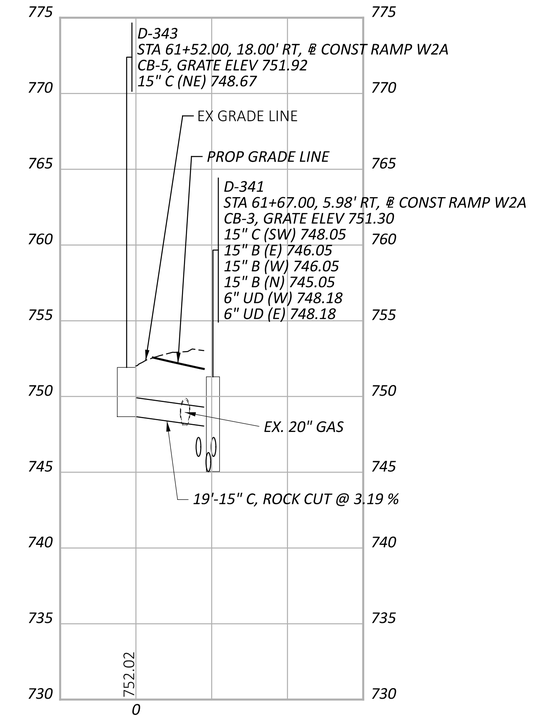

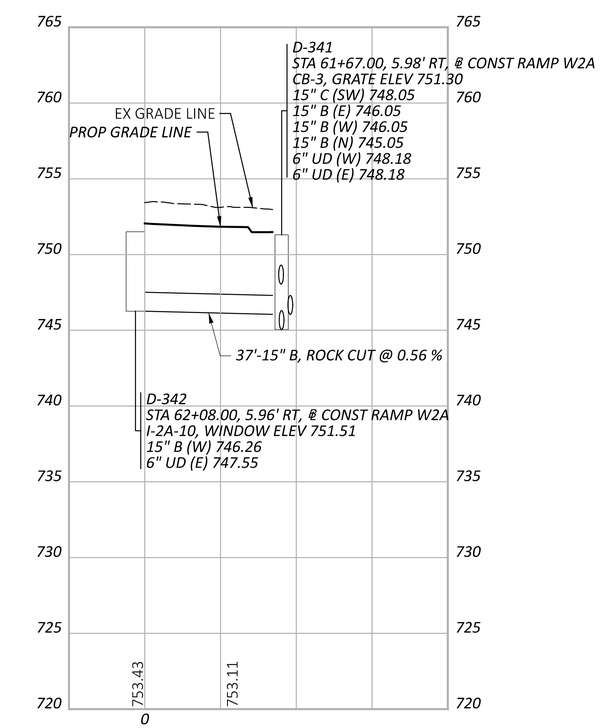

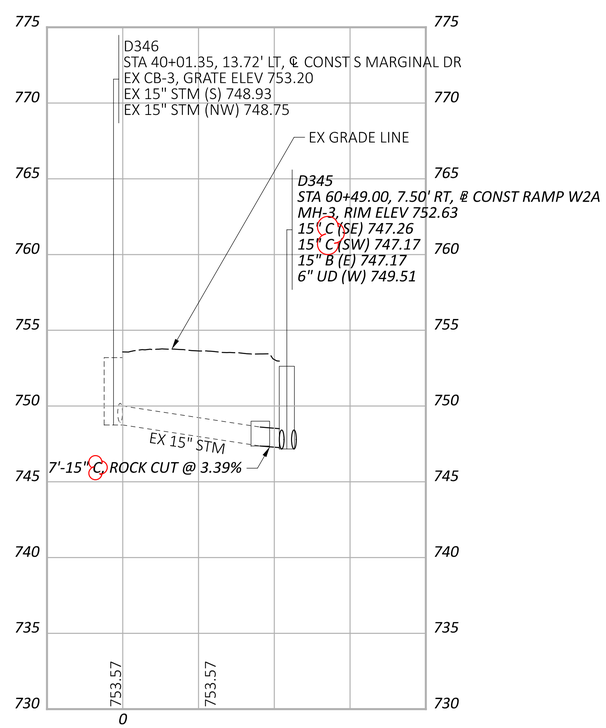

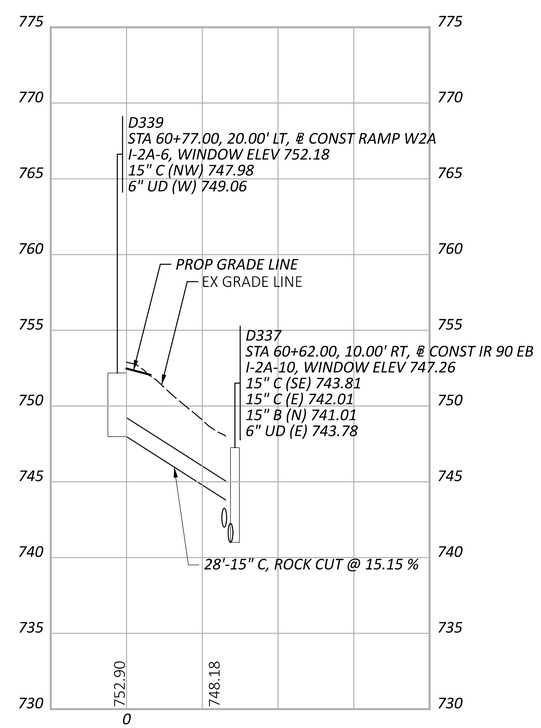

STORM SEWER PROFILES
OUTFALL D

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1114 TOTAL P.1587

CUY-90-6.69

MODEL: PR_D_040 - Profile (ISheet) PAPERSIZE: 34x22 (in.) DATE: 4/5/2025 TIME: 9:44:11 PM USER: aoldaker
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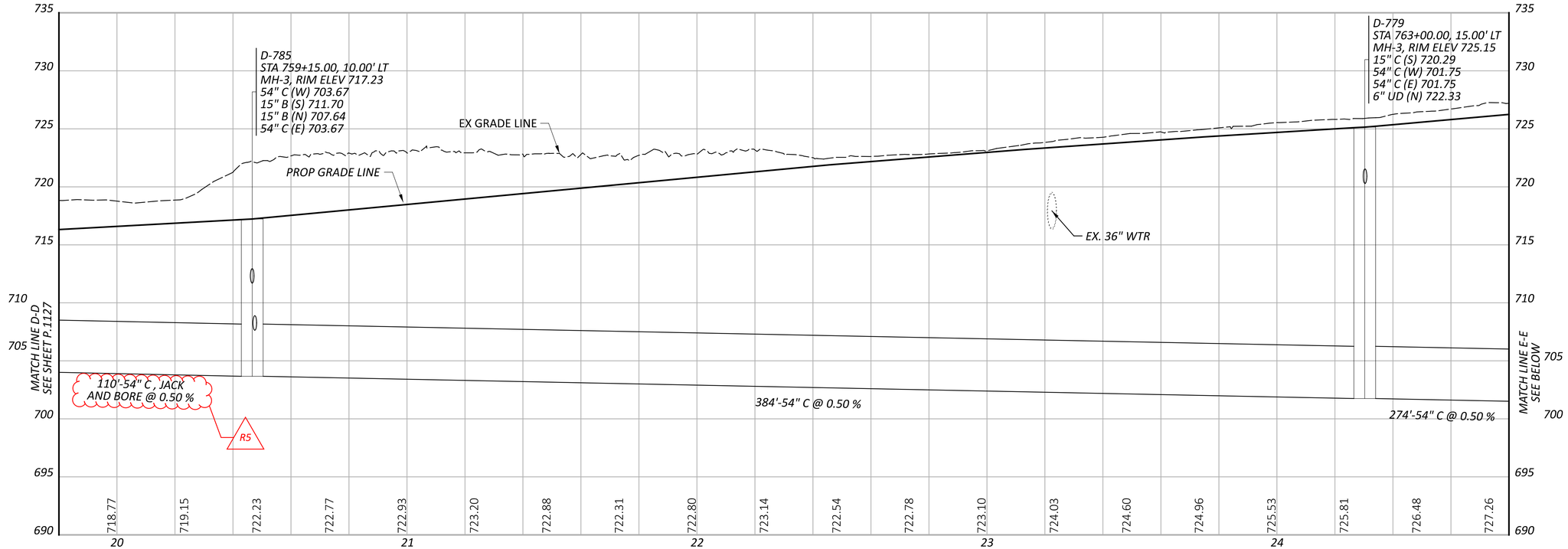
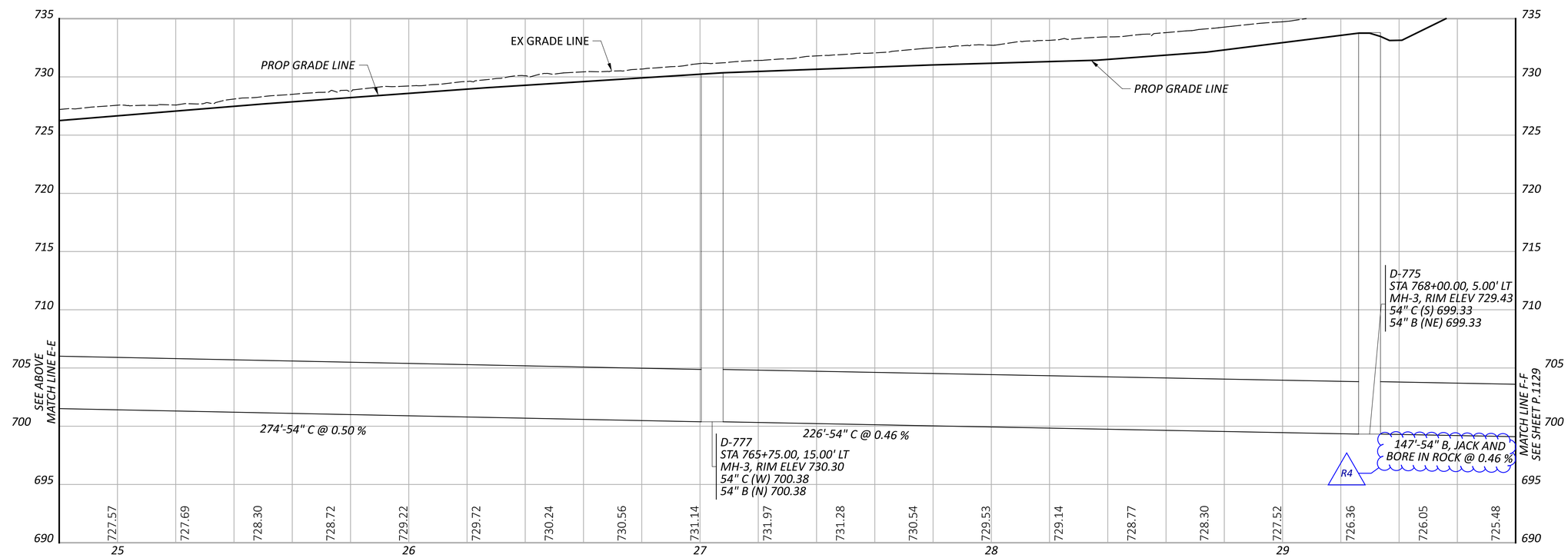
NOTES:

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





STORM SEWER PROFILES
OUTFALL M

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1128 TOTAL P.1587

CUY-90-6.69

MODEL: PR_M_000 - Profile 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/5/2025 TIME: 9:58:14 PM USER: aoldaker
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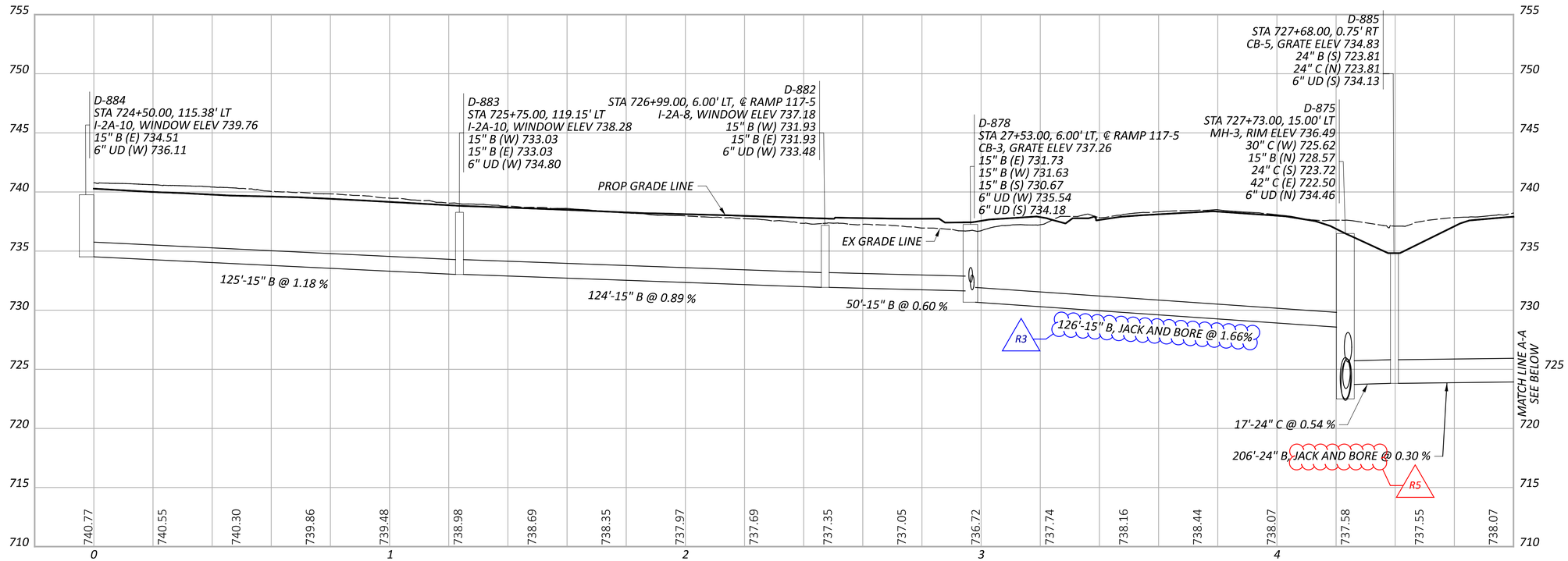

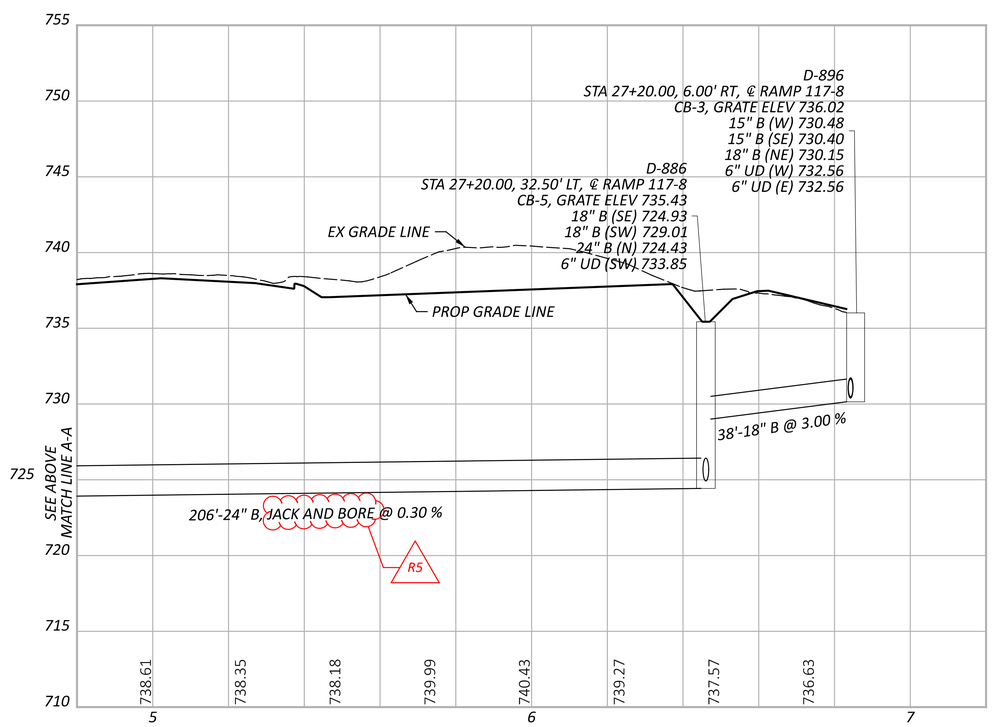

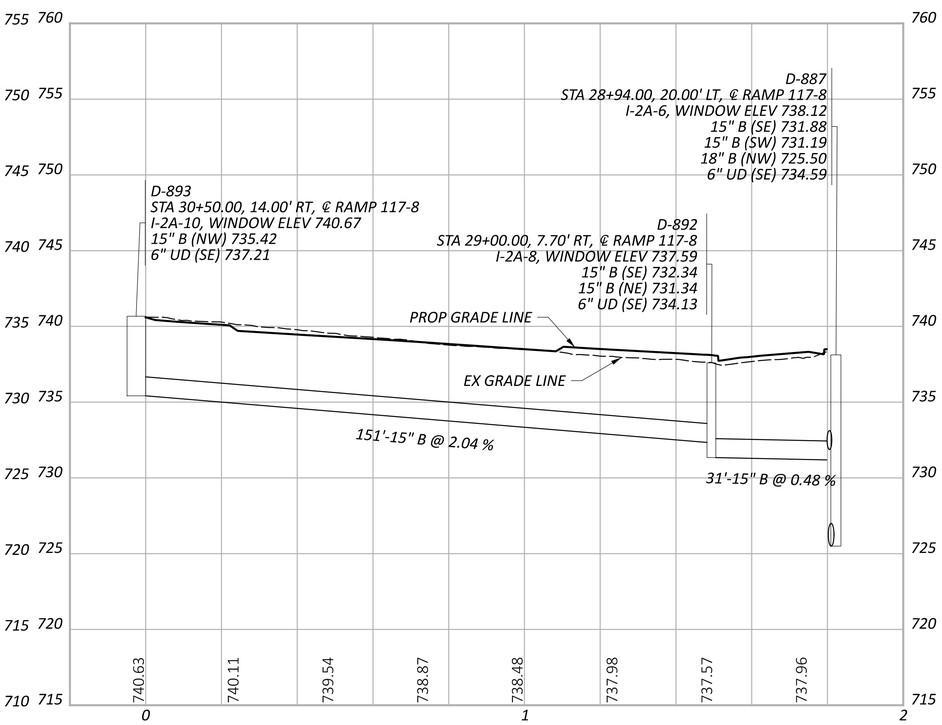

STORM SEWER PROFILES
OUTFALL M

CUY-90-6.69

MODEL: PR_M_001 - Profile [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/5/2025 TIME: 10:05:37 PM USER: aoldaker
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

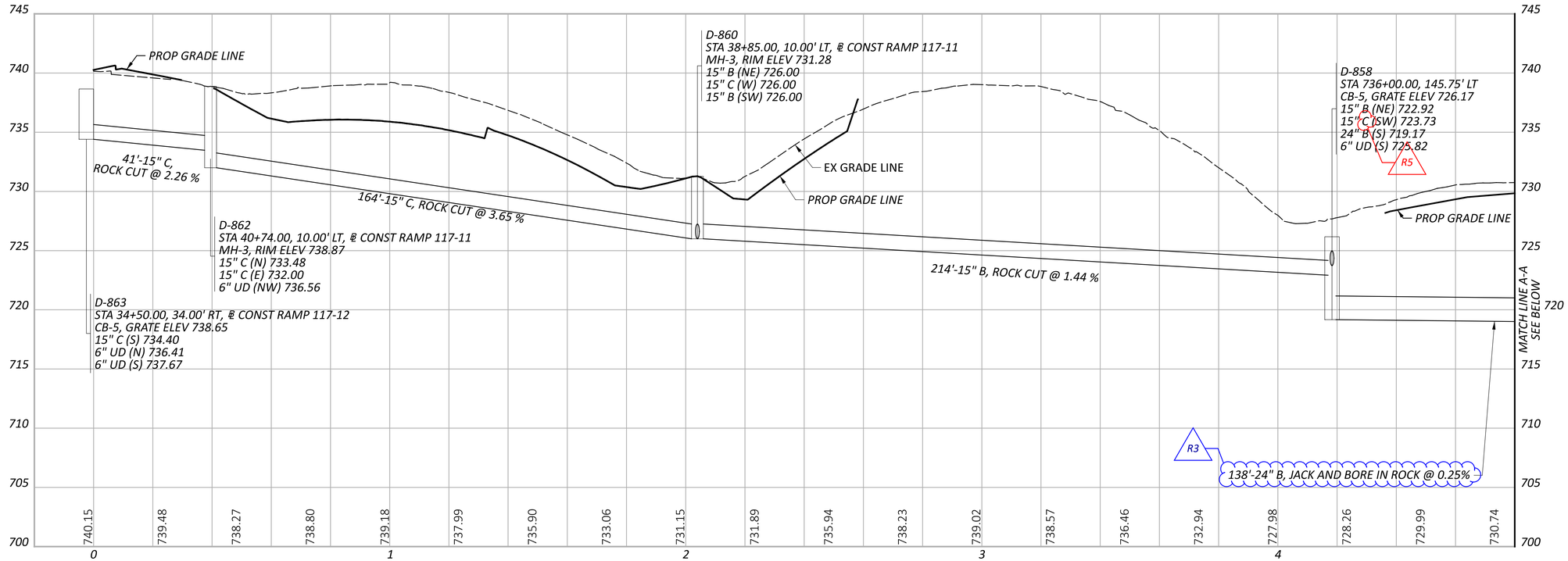
REVIEWER
KEM 08/09/23

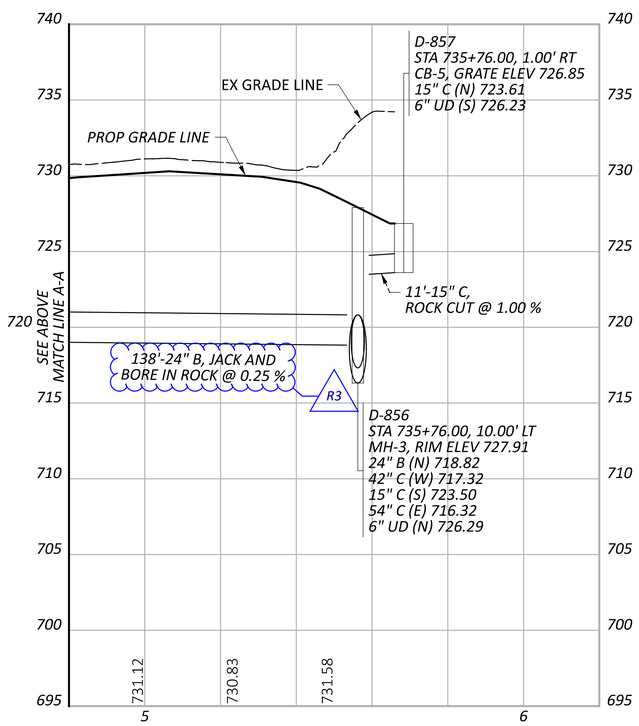
PROJECT ID
76779

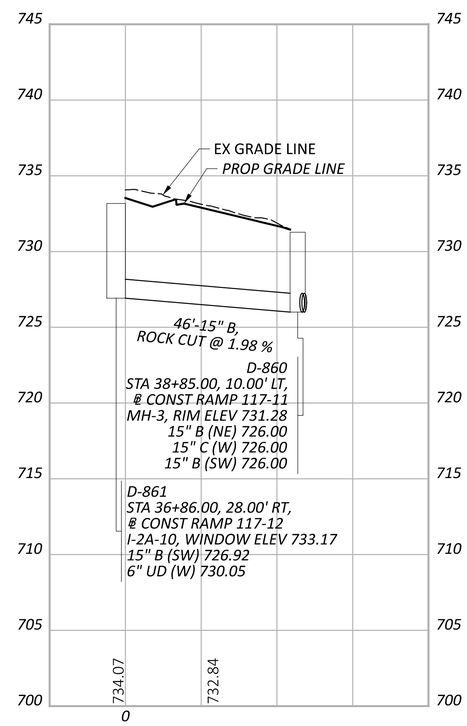
SHEET P.1134 TOTAL P.1587

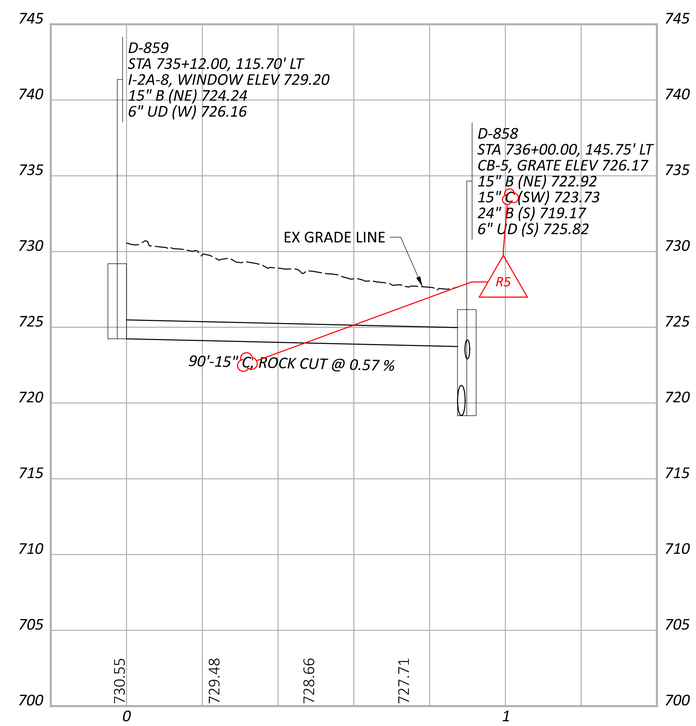
NOTES:

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









STORM SEWER PROFILES
OUTFALL M

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: AJO

REVIEWER: KEM 08/09/23

PROJECT ID: 76779

SHEET: P.1137 TOTAL: P.1587

CUY-90-6.69

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NOTES:

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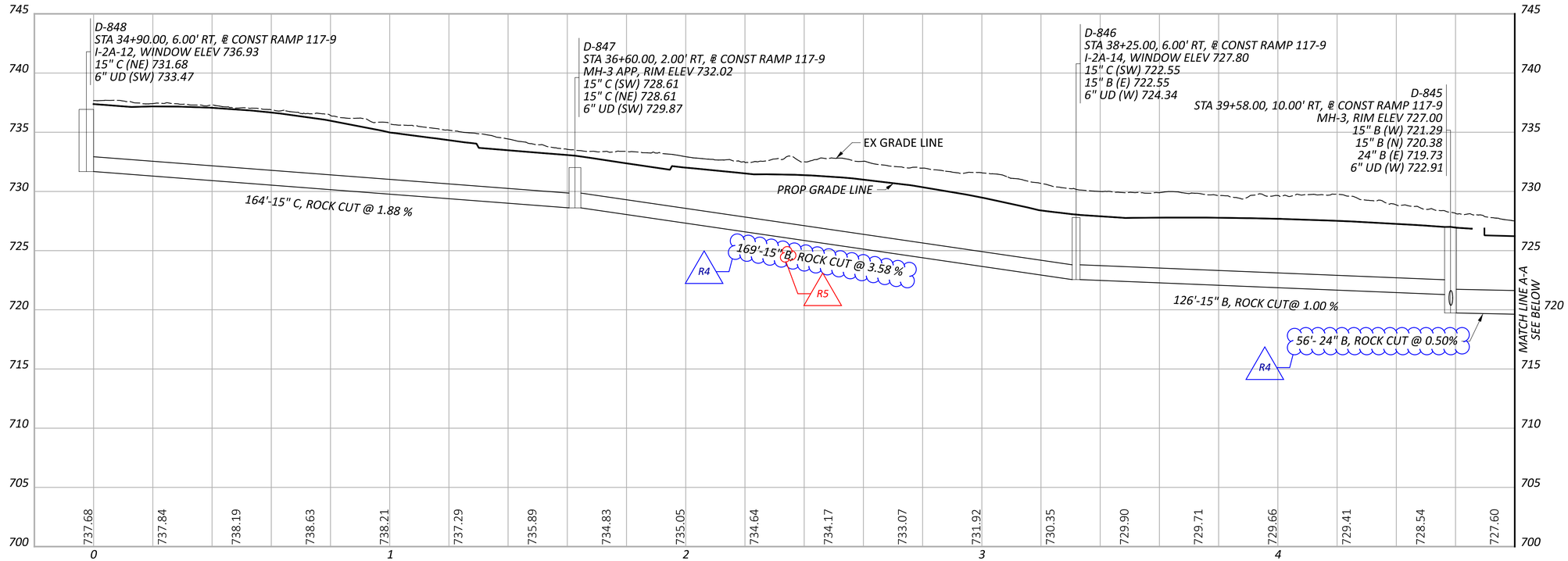

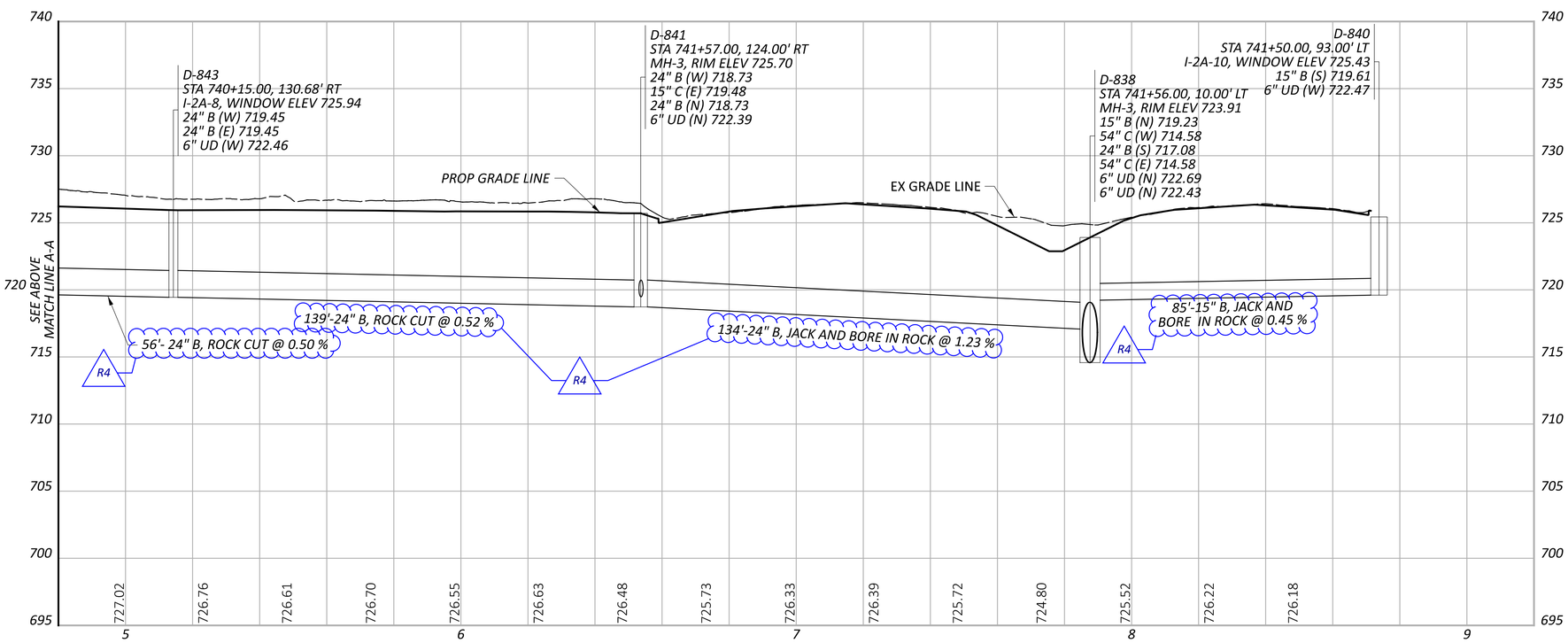

STORM SEWER PROFILES
OUTFALL M

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: AJO

REVIEWER: KEM 08/09/23

PROJECT ID: 76779

SHEET: P.1138 TOTAL: P.1587

CUY-90-6.69

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NOTES:

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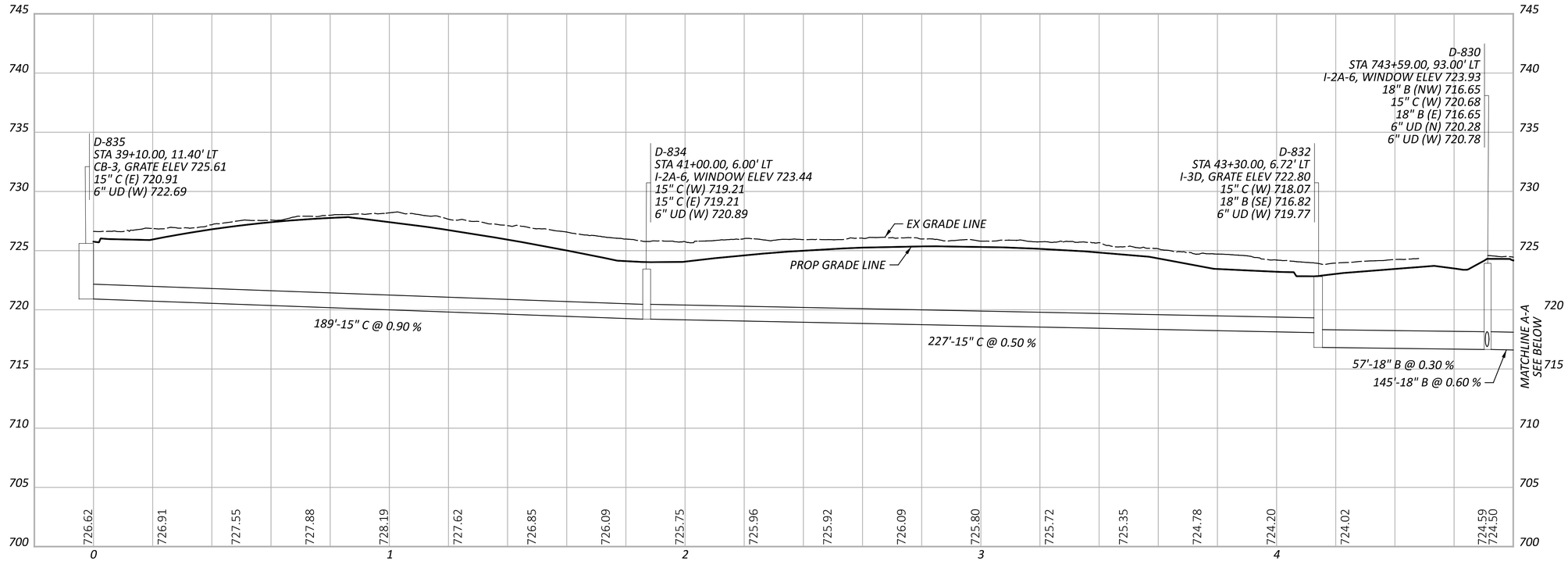

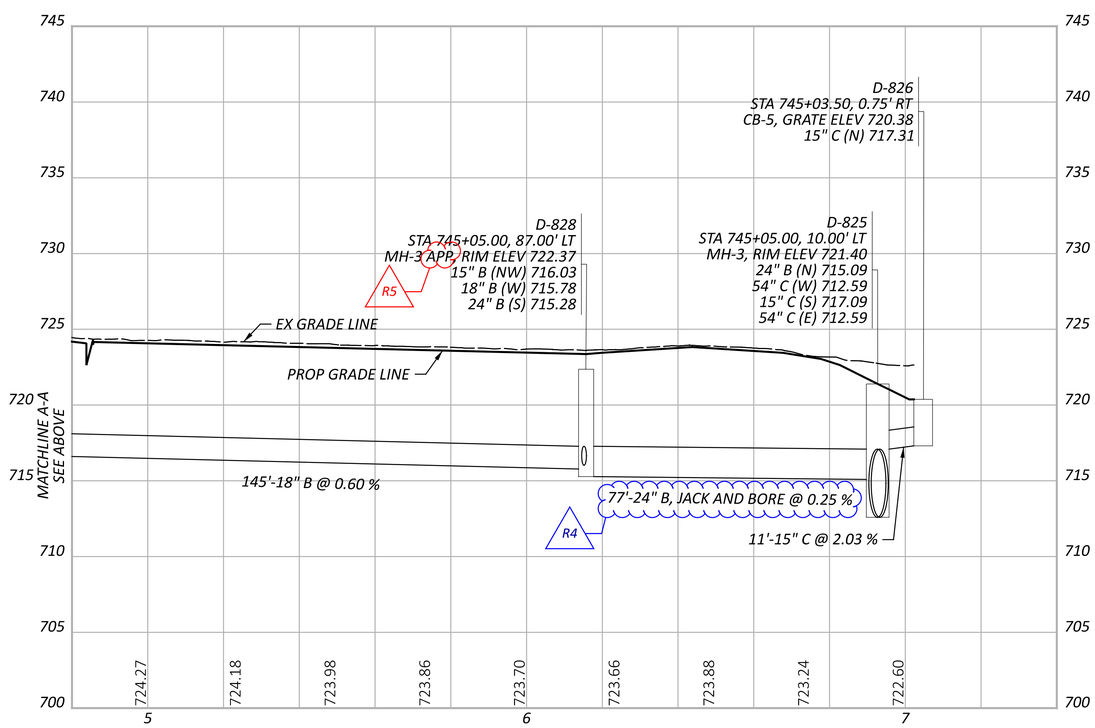

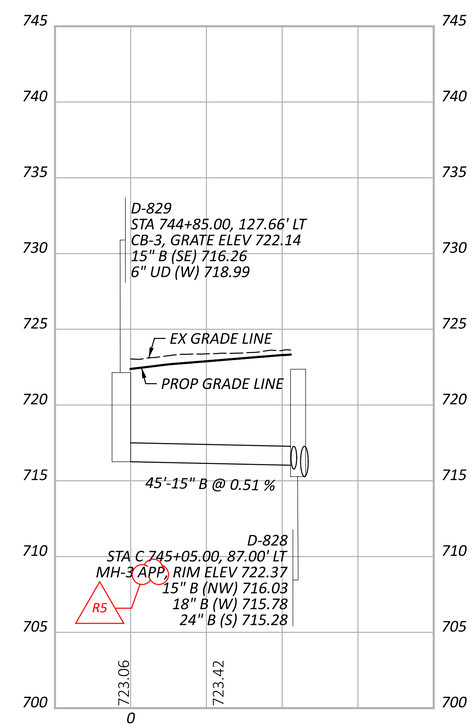

STORM SEWER PROFILES
OUTFALL M

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1140 TOTAL P.1587

CUY-90-6.69

MODEL: PR_M_008 - Profile (Sheet) PAPERSIZE: 34x22 (in.) DATE: 4/5/2025 TIME: 10:35:07 PM USER: aoldaker
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NOTES:

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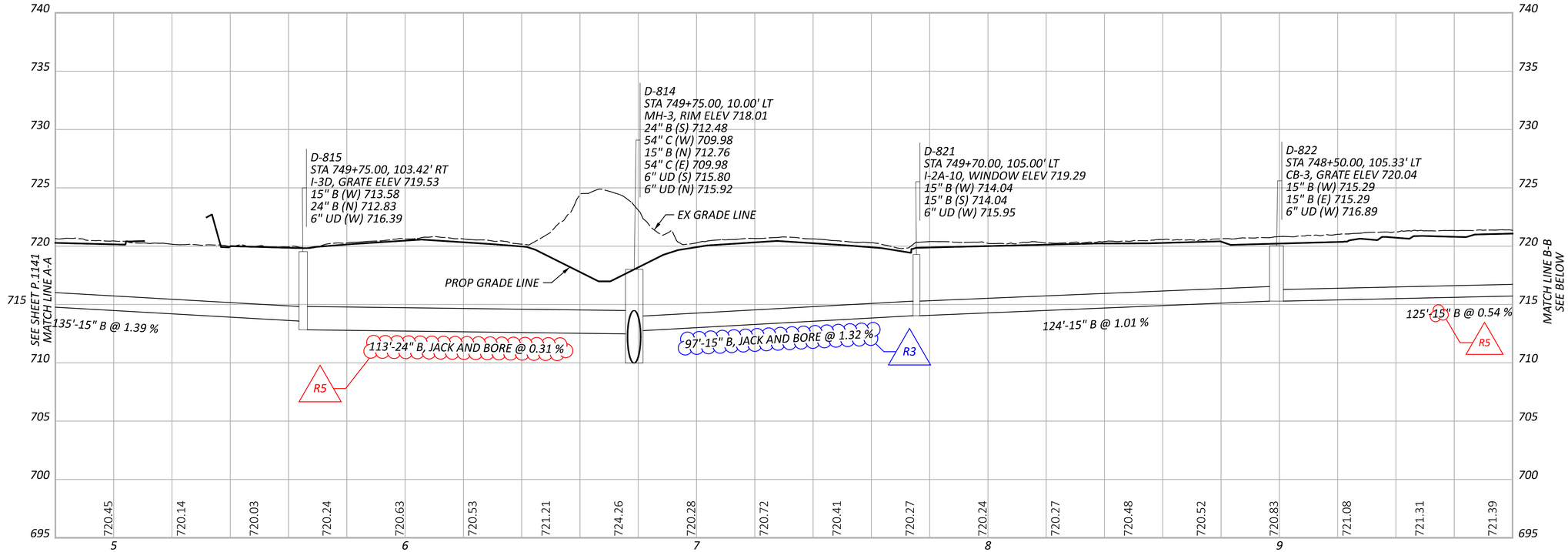

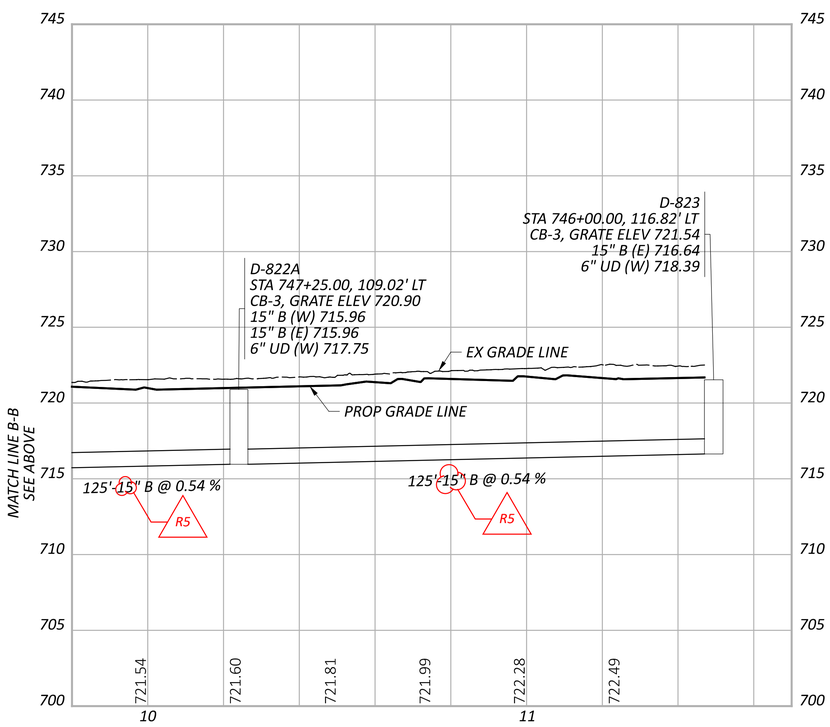

STORM SEWER PROFILES
OUTFALL M

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AJO

REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1142 TOTAL P.1587

CUY-90-6.69

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