

BALTIMORE COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF CONSTRUCTION CONTRACTS ADMINISTRATION
111 WEST CHESAPEAKE AVENUE
TOWSON, MARYLAND 21204



Contract Number 24084 SX0
Richlyn Manor Force Main
Perry Hall – District 11c5
Workday Number PROJ-1000060

ADDENDUM NO. 1

DATE: 5/14/2026

Contact: Barb Wentworth, 410-887-3531, bwentworth@baltimorecountymd.gov

To All Bidders

This addendum is hereby made a part of the Proposal and the Special Provisions, and is hereby incorporated into the Contract. Should this addendum conflict with any portion of the Special Provisions, the Proposal, or any prior addenda, this addendum shall supersede and control.

Please note the attached changes, corrections, and/or information in connection with the contract and submit bids and be otherwise governed accordingly.

On the Drawings

Revised:

- Drawing 2024-1137, G-2: General Notes **ADD** Notes A-G.
- Drawing 2024-1138, C-1: **Remove** Old Site Paving Note 3 and **Replace with revised** Site Paving Note 3.

Revised and attached to be inserted:

- Drawing 2024-1141, C-4: **Replace** Sheet C-4 in its entirety with the attached **Revised** Sheet C-4, which has been updated to include BGE underground electric utility near STA 3+50.00.
- Drawing 2024-1144, C-7: **Replace** Sheet C-7 in its entirety with the attached **Revised** Sheet C-7, which moves the dewatering vault from Station 14+82.85 to Station 14+68.78.
- Drawing 2024-1145, C-8: **Replace** Sheet C-8 in its entirety with the attached **Revised** Sheet C-8, which has been updated to show the EX. CATV, F.O., ELEC., & UGT buried conduits in the vicinity of STA 18+75.00 extended to 9824 Richlyn Drive.
- Drawing 2024-1146, C-9: **Replace** Sheet C-9 in its entirety with the attached **Revised** Sheet C-9 which moves the dewatering vault from Station 22+61.87 to Station 22+27.27.
- Drawing 2024-1149, C-12: **Replace** Sheet C-12 in its entirety with the attached **Revised** Sheet C-12, which has been updated to include BGE underground electric utility near STA 38+44.44.
- Drawing 2024-1150, C-13: **Replace** Sheet C-13 in its entirety with the attached **Revised** Sheet C-13, which has been updated to include 2" BGE gas line near STA 40+25.00 and to revise BGE pole numbering.
- Drawing 2024-1151, C-14: **Replace** Sheet C-14 in its entirety with the attached **Revised** Sheet C-14, which has been updated to include BGE underground electrical service ductbank in the vicinity of STA 44+44.00.
- Drawing 2024-1152, C-15: **Replace** Detail 4 / C-15 – Dewatering Valve and Vault Detail with the attached **Revised** detail.
- Drawing 2024-1172, MOT-1: **Replace** the MOT Sequence of Construction with the attached **Revised** MOT Sequence of Construction (Notes 1-4).

In the Specifications

Revised and attached to be inserted:

- Page 16, Section II – Special Provision – Table of Contents, TOC-3 **ADD** "NEW ITEM 38 Engineer's Office Type 3" to the list of bid items under SP 7 - BID ITEMS.
- Page 116, Section II - Special Provisions, SP 7-99 Bid Item 26 Contingent Item - Geotextile Class SE **Replace** paragraph 1.
- Page 118, Section II - Special Provisions, SP 7-101 under Bid Item 37 Contingent Item – Adjusting and Replacing Fences, Shrubs, Trees, Hedges, etc. **Delete** "End of Section" on bottom of the page.
- Page 119, Section II - Special Provisions, SP 7-102 Bid Item **ADD** New Item 38 – Engineer's Office Type 3.

In the Proposal

Revised and attached to be inserted:

- Page 352, Section IV - Proposal – Description of Items & Schedule of Prices, **ADD** New Item 38, Engineer's Office Type 3, Unit of Measure is Lump Sum (LS), Estimated Quantity is 1.

Attachments – 17

Please sign below acknowledging receipt of this addendum and return with your bid.

Company Name

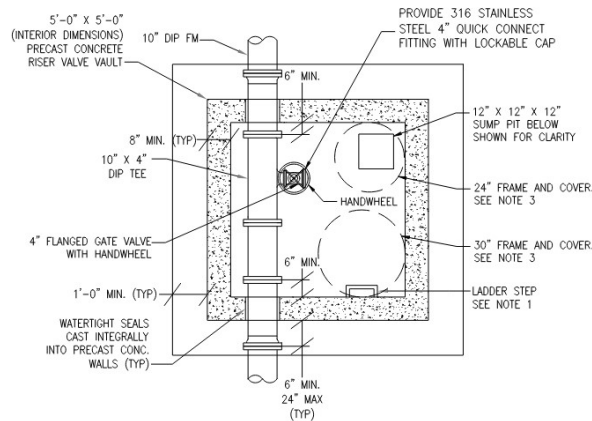
Signature

ADDENDUM NO. 1
RICHLYN MANOR FORCE MAIN
CONTRACT NO. 24084 SX0
PROJECT NO. PROJ-10000060

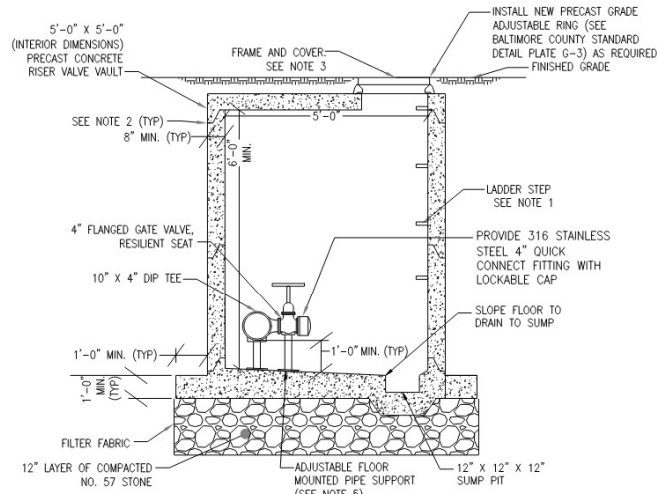
Drawings:

1. Drawing 2024-1137, G-2: Add the following to the General Notes:
 - a. Note 25: The Contractor is advised that no mechanized equipment is to be used within 18" of any BGE Gas facilities. Any excavation within 18" of BGE Gas facilities must be hand dig only. All proposed installed materials must maintain a minimum clearance of 12" when completed, and 12" of earth remain undisturbed around BGE Gas facilities during excavation.
 - b. Note 26: The Contractor shall be responsible for adjusting all BGE Gas roadway frames and covers to proposed grade within the project's Limit of Disturbance. Contact BGE Paving Department at 410-470-8574 with any questions or concerns.
 - c. Note 27: Contact the BGE Maps & Records department at maprequest@exeloncorp.com prior to starting work and request new plans to ensure the most up-to-date information on existing BGE utilities.
 - d. Note 29: The Contractor must always maintain 10 ft. of clearance from electric lines to comply with the Maryland High Voltage Line Act.
 - e. Note 30: Conduct test pits at all crossings with BGE Underground Electric lines.
 - f. Note 31: Trench excavation shall not be made if the nearest bottom edge of the trench if excavation area is less than a 1:1 slope away from any utility poles unless special arrangements are made with BGE.
 - g. Note 32: Construction shall only take place between 9am – 3pm.
2. Drawing 2024-1138, C-1: Replace Site Paving Note 3 with the following:
 3. THE CONTRACTOR SHALL PERFORM FULL DEPTH PAVEMENT REPAIR WITHIN THE LIMITS OF TRENCHING FOR THE FORCE MAIN INSTALLATION ALONG FORGE ROAD.
3. Drawing 2024-1141, C-4: Replace Sheet C-4 in its entirety with the attached revised Sheet C-4, which has been updated to include BGE underground electric utility near STA 3+50.00.
4. Drawing 2024-1144, C-7: Replace Sheet C-7 in its entirety with the attached revised Sheet C-7 which moves the dewatering vault from Station 14+82.85 to Station 14+68.78.
5. Drawing 2024-1145, C-8: Replace Sheet C-8 in its entirety with the attached revised Sheet C-8, which has been updated to show the EX. CATV, F.O., ELEC., & UGT buried conduits in the vicinity of STA 18+75.00 extended to 9824 Richlyn Drive.

6. Drawing 2024-1146, C-9: Replace Sheet C-9 in its entirety with the attached revised Sheet C-9 which moves the dewatering vault from Station 22+61.87 to Station 22+27.27.
7. Drawing 2024-1149, C-12: Replace Sheet C-12 in its entirety with the attached revised Sheet C-12, which has been updated to include BGE underground electric utility near STA 38+44.44.
8. Drawing 2024-1150, C-13: Replace Sheet C-13 in its entirety with the attached revised Sheet C-13, which has been updated to include 2" BGE gas line near STA 40+25.00 and to revise BGE pole numbering.
9. Drawing 2024-1151, C-14: Replace Sheet C-14 in its entirety with the attached revised Sheet C-14, which has been updated to include BGE underground electrical service ductbank in the vicinity of STA 44+44.00.
10. Drawing 2024-1152, C-15: Replace Detail 4 / C-15 – Dewatering Valve and Vault Detail with the following detail (see next page):



PLAN



SECTION

NOTES:

1. COPOLYMER POLYPROPYLENE LADDER STEP, REFER TO BALTIMORE COUNTY STANDARD DETAIL PLATE G-4.
2. PRECAST CONCRETE STRUCTURE JOINT LOCATION SHALL BE COORDINATED SO THAT THEY ARE A MINIMUM OF 1 FOOT CLEAR OF ALL PIPE PENETRATIONS AND IN ACCORDANCE WITH STANDARD DETAIL S-4.
3. INSTALL STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER PER STANDARD DETAIL S-8. SET FRAME AND COVER AT FINISHED GRADE. SIZES TO BE AS NOTED ABOVE.
4. REINFORCING STEEL NOT SHOWN FOR CLARITY.
5. ALL PIPE SUPPORTS SHALL BE 316 STAINLESS STEEL.
6. SUPPORT ALL HORIZONTALLY INSTALLED VALVES WITH AN ADJUSTABLE FLOOR MOUNTED PIPE SUPPORT, INSTALLED SO AS NOT TO INTERFERE WITH THE OPERATION OF THE VALVE.
7. PRECAST CONCRETE VALVE VAULTS SHALL BE DESIGNED BY THE MANUFACTURER. CALCULATIONS AND DETAILS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND AND SUBMITTED TO THE ENGINEER. PRECAST STRUCTURES SHALL BE DESIGNED FOR AN HS-27 LIVE LOAD VEHICLE AND DESIGN SHALL BE IN ACCORDANCE WITH ACI350 "BUILDING CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES." FOR ADDITIONAL INFORMATION SEE SPECIFICATION 03410 - PRECAST STRUCTURAL CONCRETE.
8. PIPE CONFIGURATION SHOWN MAY REQUIRE ADJUSTMENT BASED ON FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REQUIRED PIPE AND VALVE CONFIGURATIONS TO ENSURE THE ACCESS VALVE AND CONNECTION ARE ACCESSIBLE FOR CONNECTION TO THE COUNTY'S EQUIPMENT. ANY FITTINGS, SPECIALITIES, OR OTHER APPURTENANCES REQUIRED TO ENSURE A COMPLETE INSTALLATION SHALL BE PROVIDED AT NO ADDITIONAL COST WHETHER OR NOT THEY ARE SHOWN.
9. SLOPE VAULT FLOOR TO SUMP.
10. COORDINATE SUMP LOCATION SUCH THAT IT DOES NOT INTERFERE WITH THE PERSONNEL ENTRY FRAME AND COVER.

4
C15

DEWATERING VALVE AND VAULT DETAIL

NOT TO SCALE

11. Drawing 2024-1172, MOT-1: Replace the MOT Sequence of Construction with the following:

1. ACCESS ROAD SECTION
 - 1.1. CLOSE ACCESS ROAD.
 - 1.2. CONSTRUCT SECTIONS OF PROPOSED 10" FORCE MAIN FROM 39+25 TO 44+45.
 - 1.3. RESTORE TRENCHED ROADWAY BACK TO EXISTING CONDITIONS WITH ASPHALT.

2. RICHLYN DRIVE SECTION (FROM CARLYN ROAD TO ACCESS ROAD)
 - 2.1. INSTALL TRAFFIC CONTROL DEVICES TO USE A ONE LANE ROAD YIELD CONTROL SET UP. TEMPORARY CONCRETE BARRIER TO BE USED BETWEEN THE TRAVEL LANE AND WORKZONE. MAINTAIN A MINIMUM OF A 10' LANE. AN ABSOLUTE MINIMUM OF A 9' LANE MUST BE MAINTAINED THROUGH THE RICHLYN DRIVE WORK ZONE. 10' LANE IS HIGHLY PREFERRED. ANCHOR BARRIER. ONLY CONSTRUCT SECTIONS OF WORKZONE THAT MAINTAIN GOOD SIGHT DISTANCE 30' PAST WORKZONE FOR YIELD CONTROL. SEE TYPICAL SET-UP ON THIS SHEET.
 - 2.2. WHERE SIGHT DISTANCES ARE NOT ACHIEVABLE FOR YIELD CONTROL USE ONE OF THE FOLLOWING METHODS:
 - 2.2.1. UTILIZE PORTABLE TEMPORARY TRAFFIC SIGNALS TO CONTROL THE TRAFFIC FLOW.
 - 2.2.2. UTILIZE 24 HOUR FLAGGING OPERATION 2-LANE, 2-WAY EQUAL/LESS THAN 40 MPH AS SHOWN ON MD. STANDARD 104.02-10. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF A 9'-0" LANE AT ALL TIMES. MAINTAIN WORK ZONE PROTECTION WITH TEMPORARY CONCRETE BARRIER.
 - 2.3. CONSTRUCT SECTIONS OF PROPOSED 10" FORCE MAIN FROM 20+50 TO 39+25. LIMIT WORK ZONE SECTIONS FROM DRIVEWAY CENTERLINE TO DRIVEWAY CENTERLINE TO MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.
 - 2.4. RESTORE TRENCHED ROADWAY BACK TO EXISTING CONDITIONS WITH ASPHALT.

3. RICHLYN DRIVE SECTION (FROM FORGE ROAD TO CARLYN ROAD)
 - 3.1. CLOSE AND DETOUR RICHLYN DRIVE.
 - 3.2. TRAFFIC TO BE DETOURED ALONG GUNFORGE ROAD AND CARLYN ROAD. SEE DETOUR SHEET.
 - 3.3. CONSTRUCT SECTIONS OF PROPOSED 10" FORCE MAIN FROM STA. 7+00 TO 20+50. LIMIT WORK ZONE SECTIONS FROM DRIVEWAY CENTERLINE TO DRIVEWAY CENTERLINE TO MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.
 - 3.4. RESTORE TRENCHED ROADWAY BACK TO EXISTING CONDITIONS WITH ASPHALT.

4. FORGE ROAD SECTION
 - 4.1. DURING ALLOWABLE HOURS, CLOSE AND DETOUR FORGE ROAD.
 - 4.2. TRAFFIC TO BE DETOURED ALONG HONEYGO BOULEVARD AND CROSS ROAD. SEE DETOUR SHEET.
 - 4.3. CONSTRUCT PROPOSED 12" GRAVITY SEWER.

- 4.4. CONSTRUCT SECTIONS OF PROPOSED 10" FORCE MAIN FROM STA. 0+00 TO 7+00. LIMIT WORK ZONE SECTIONS FROM DRIVEWAY CENTERLINE TO DRIVEWAY CENTERLINE TO MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.
- 4.5. RESTORE TRENCHED ROADWAY BACK TO EXISTING CONDITIONS WITH ASPHALT.

Specifications:

1. Page 116, SP 7 – Bid Items: Replace paragraph 1 under ITEM 26 – CONTINGENT ITEM – GEOTEXTILE CLASS SE on page SP - 99 with the following:
 1. This item of work shall consist of providing all labor, material, and equipment require to furnish and install geotextile Class SE when needed to separate soil types and applied vertically on the sides of the trench in accordance with the Standard Specifications for Construction and Materials, the 2011 "Maryland Standards and Specifications for Soil Erosion and Sediment Control", and as shown, specified, and as directed by the Engineer.
 2. Page 119, SP 7 – Bid Items: Add ITEM 38 – ENGINEER'S OFFICE TYPE 3
 1. This item of work is to provide an Engineer's Office Type Number 3 in accordance with the Standard Specifications for Construction and Materials and Section SP 1-23 of the Special Provisions.
 2. Work performed under this item will not be measured for payment but will be paid for at the Contract lump sum price in accordance with the Standard Specifications for Construction and Materials.
3. Page 16, Table of Contents: On page TOC - 3, add "ITEM 38 Engineer's Office Type 3" to the list of bid items under SP 7 - BID ITEMS.
4. Page 352 Add New Item 38, Engineer's Office Type 3, Unit of Measure is Lump Sum (LS), Estimated Quantity is 1.

SPECIAL PROVISIONS

		<u>PAGE NUMBER</u>
ITEM 26	Contingent Item – Geotextile Class SE	SP-99
ITEM 27	Contingent Item – Geotextile Class ST	SP-99
ITEM 28	Contingent Item – Geotextile Soil Reinforcement Fabric (Mirafi	SP-99
ITEM 29	500X) Contingent Item – 6” Utility Underdrain	SP-99
ITEM 30	Contingent Item – Flowable Fill Utility Cuts	SP-100
ITEM 31	Contingent Item – #2 Stone Sediment Control	SP-100
ITEM 32	Contingent Item – Calcium Chloride	SP-100
ITEM 33	Contingent Item – Class 2 Excavation Sediment Control	SP-100
ITEM 34	Contingent Item – Super Silt Fence	SP-100
ITEM 35	Contingent Item – Silt Fence on Pavement	SP-101
ITEM 36	Contingent Item – Inlet Protection	SP-101
ITEM 37	Contingent Item – Adjusting and Replacing Fences, Shrubs, Trees, Hedges, etc.	SP-101
ITEM 38	Engineer's Office Type 3	SP-102

APPENDIX A

Appendix A – Geotechnical Report	SP-103
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ITEM 26 – CONTINGENT ITEM – GEOTEXTILE CLASS SE

1. This item of work shall consist of providing all labor, material, and equipment required to furnish and install geotextile Class SE when needed to separate soil types and applied vertically on the sides of the trench in accordance with the Standard Specification for Construction and Materials, the 2011 “Maryland Standards and Specifications for Soil Erosion and Sediment Control”, and as shown, specified, and as directed by the Engineer..
2. Measurement and payment per square yard under this item will be made in accordance with the Standard Specifications for Construction and Materials and Section SP 2-1 of these Special Provisions.

ITEM 27 – CONTINGENT ITEM – GEOTEXTILE CLASS ST

1. This item of work shall consist of providing all labor, material, and equipment required to furnish and install geotextile Class ST when needed to separate soil types and applied vertically on the sides of the trench in accordance with the Standard Specifications for Construction and Materials and as shown, specified, and as directed by the Engineer.
2. Measurement and payment per square yard under this item will be made in accordance with the Standard Specifications for Construction and Materials and Section SP 2-1 of these Special Provisions.

ITEM 28 – CONTINGENT ITEM – GEOTEXTILE SOIL REINFORCEMENT FABRIC (MIRAFI 500X)

1. This item of work shall consist of providing all labor, material, and equipment required to furnish and install geotextile Mirafi 500X, applied horizontally for soil reinforcement in place of additional excavation, in accordance with Section SP 4-1 of the Special Provisions and the Standard Specifications for Construction and Materials and as shown, specified, and as directed by the Engineer.
2. Measurement and payment per square yard under this item will be made in accordance with the Standard Specifications for Construction and Materials and Section SP 2-1 of these Special Provisions.

ITEM 29 – CONTINGENT ITEM – 6” UTILITY UNDERDRAIN

1. This item of work shall consist of providing all labor, material, and equipment required to complete the utility underdrains when directed by the Engineer in accordance with the Standard Specifications for Construction and Materials.
2. Measurement and payment per linear foot installed under this item will be made in accordance with the Standard Specifications for Construction and Materials and Section SP 2-1 of these Special Provisions.

2. Measurement and payment per linear foot installed under this item will be made when directed by the Engineer in accordance with the Standard Specifications for Construction and Materials and Section SP 2-1 of these Special Provisions.
3. The unit price shall include all labor, materials, and equipment necessary for providing and installing super silt fence, including silt fence check dams and clear water diversion pipe into silt fence as directed by the Engineer.

ITEM 35 – CONTINGENT ITEM – SILT FENCE ON PAVEMENT

1. This item of work shall consist of providing all labor, material, and equipment required to complete the silt fence on pavement for erosion and sediment control when directed by the Engineer in accordance with the Standard Specifications for Construction and Materials.
2. Measurement and payment per linear foot installed under this item will be made when directed by the Engineer in accordance with the Standard Specifications for Construction and Materials and Section SP 2-1 of these Special Provisions.
3. The unit price shall include all labor, materials, and equipment necessary for providing and installing silt fence on pavement when directed by the Engineer in accordance with the Standard Specifications for Construction and Materials.

ITEM 36 – CONTINGENT ITEM – INLET PROTECTION

1. This item of work shall consist of providing all labor, material, and equipment required to provide inlet protection on all storm drain inlets as required by the Inlet Protection Note on Contract Drawing ESC-2 when directed by the Engineer in accordance with the Standard Specifications for Construction and Materials.
2. Measurement and payment will be per storm drain inlet when directed by the Engineer in accordance with the Standard Specifications for Construction and Materials and Section SP 2-1 of these Special Provisions.

ITEM 37 – CONTINGENT ITEM – ADJUSTING AND REPLACING FENCES, SHRUBS, TREES, HEDGES, ETC.

1. This item of work shall consist of providing all labor, material, and equipment required to remove and relocate adjacent to the work fences, shrubs, trees, hedges, mailboxes, etc., when directed by the Engineer in accordance with the Standard Specifications for Construction and Materials.
2. Work performed under this item will not be measured for payment but will be paid for at the Contract lump sum price in accordance with the Standard Specifications for Construction and Materials.

ITEM 38 – ENGINEER'S OFFICE TYPE 3

1. This item of work is to provide an Engineer's Office Type Number 3 in accordance with the Standard Specifications for Construction and Materials and Section SP 1-23 of the Special Provisions.
2. Work performed under this item will not be measured for payment but will be paid for at the Contract lump sum price in accordance with the Standard Specifications for Construction and Materials.

Contract No. 24084 SX0
Addendum No. 1
Revised, May 14, 2026

END OF SECTION

32	800080	C	Contingent Item - Calcium Chloride	TON	5		\$
33	388058	C	Contingent Item - Class 2 Excavation Sediment Control	CY	100		\$
34	388102	C	Contingent Item - Super Silt Fence	LF	150		\$
35	388100	C	Contingent Item - Silt Fence on Pavement	LF	100		\$
36	388067	C	Contingent Item - Inlet Protection	EA	2		\$
37	110204	C	Contingent Item - Adjusting and Replacing Fences, Shrubs, Trees, Hedges, etc.	LS	1		
38			Engineer's Office Type 3	LS	1		\$
TOTAL COST FOR CONTRACT							\$

TOTAL COST FOR CONTRACT IN WORDS

OFFICER SIGNATURE

TITLE

**Contract No. 24084 SX0
Addendum No. 1
Revised, May 14, 2026**

FORCE MAIN STAKEOUT			
LOCATION	ITEM	NORTHING	EASTING
STA. 13+85.29	45' HB	638,140.18	1,468,886.42
STA. 14+01.73	45' HB	638,139.96	1,468,884.54
STA. 14+82.85	CV99	638,186.78	1,468,950.88
STA. 16+50.00	CV100	638,316.12	1,469,077.79

FITTING TABLE		
NO.	DESCRIPTION	SIZE
400'	D.I.P CLASS 54 (RESTRAINED JOINTS)	10"
2	45 DEG. HZ BEND	10"

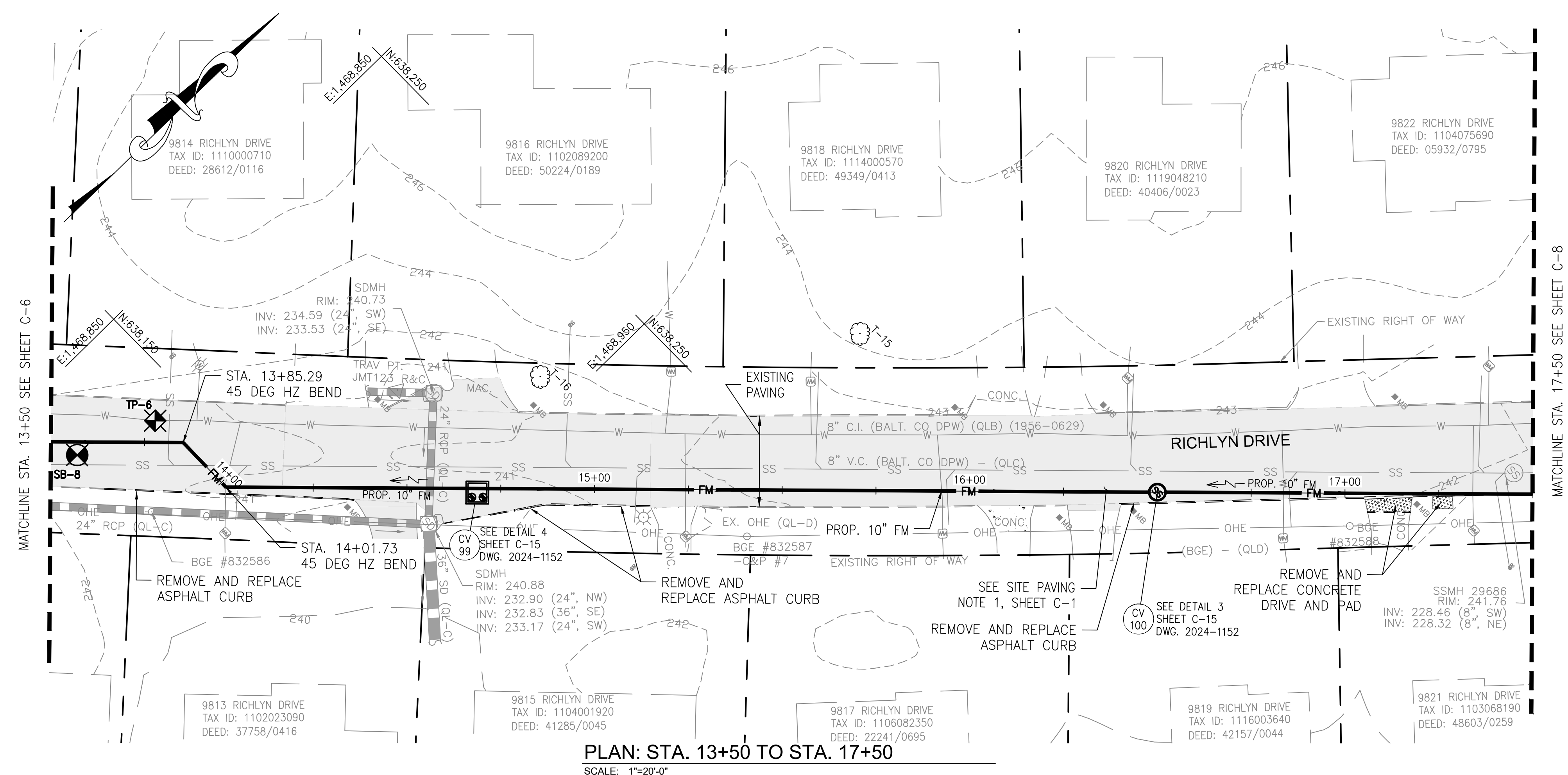
STRUCTURE TABLE			
VAULT NO.	DESCRIPTION	RIM	INVERT
CV99	30" SANITARY MANHOLE (DEWATERING VALVE AND VAULT)	240.54± (MATCH GRADE)	230.28
CV100	30" SANITARY MANHOLE (COMBINATION AIR/ VACUUM RELIEF VALVE AND VAULT)	242.70	235.09

SOIL BORING DATA		
BORING NO.	NORTHING	EASTING
SB-8	638117.65	1468869.00

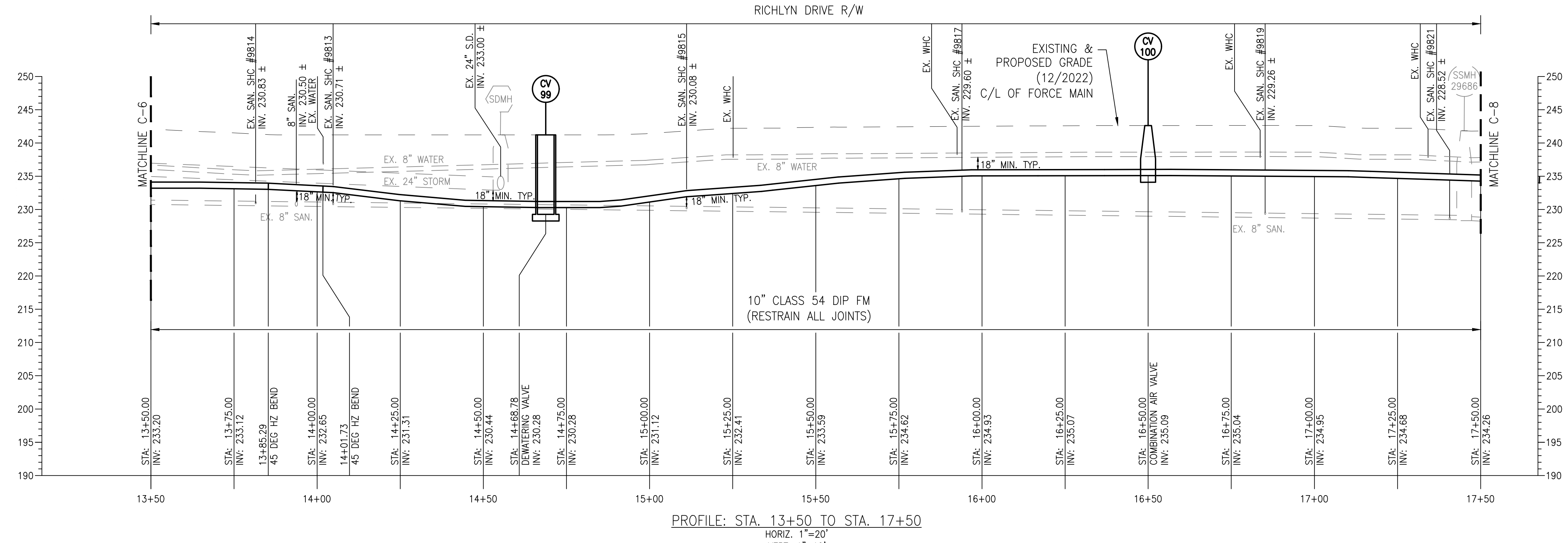
TEST PIT FIELD DATA						
TEST PIT NO.	NORTHING	EASTING	DEPTH	OFFSET	TOP ELEV.	UTILITY
TP-6	638,138.92	1,468,877.05	5.54 FT.	17.59' (L)	235.82	8" C.I. WATER

SITE GRADING NOTE:

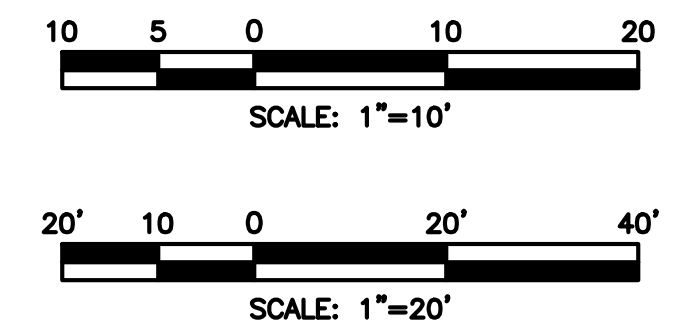
- CONTRACTOR SHALL RESTORE DISTURBED PAVEMENT FROM UTILITY CUTS TO THEIR ORIGINAL SLOPE AND GRADE IN EQUAL OR BETTER CONDITION.



PLAN: STA. 13+50 TO STA. 17+50
SCALE: 1"=20'-0"



PROFILE: STA. 13+50 TO STA. 17+50
HORIZ. 1"=20'
VERT. 1"=10'



	PROFESSIONAL CERTIFICATION		AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION	SHT	DRAWING SCALE	DPW AND TRANSPORTATION	
	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.						R.O.W. NO.	QSE			PLAN SCALE: AS SHOWN	SEE DRAWING 2024-1136 FOR ORIGINAL SIGNATURES
	LICENSE NO. 14446 EXPIRATION DATE 5/26/2027		CONTRACT COMPLETION BOX								PROFILE SCALE: HORIZ: 1"=20' VERT: 1"=10'	
	ENGINEER: CARROLL ENGINEERING 215 SCHILLING CIRCLE, PH. 410-795-7483 ROUTE 100, VALLEY, MD 21081 INFO@CARROLLENGINEERING.COM		DGN BY: MJE, MJP	BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	BUR. OF ENGINEERING & CONSTRUCTION
AS-BUILT PER RECORD PRINT		DWN BY: MJE, MJP	REVIEWED BY:	SEE DRAWING 2024-1136 FOR ORIGINAL SIGNATURES								
BY: DATE:		CHKD BY: CMS	DATE REVIEWED:									

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION – BUREAU OF ENGINEERING AND CONSTRUCTION		SHEET DESIGNATION	CONTRACT NUMBER
RICHLYN MANOR SANITARY PUMPING STATION FORCE MAIN		C-7	24084SX0
PLAN & PROFILE STA. 13+50 TO STA. 17+50		PROJECT NUMBER	PROJ-10000060
SUBDIVISION: RICHLYN MANOR		SHEET 7 OF 34	
PERRY HALL, MD		DRAWING NUMBER	2024-1144
ELECTION DIST. NO.: 11C5		FILE NO.:	

FORCE MAIN STAKEOUT			
LOCATION	ITEM	NORTHING	EASTING
STA. 17+51.13	45° HB	638,387.88	1,469,149.04
STA. 17+67.64	45° HB	638,404.39	1,469,148.49

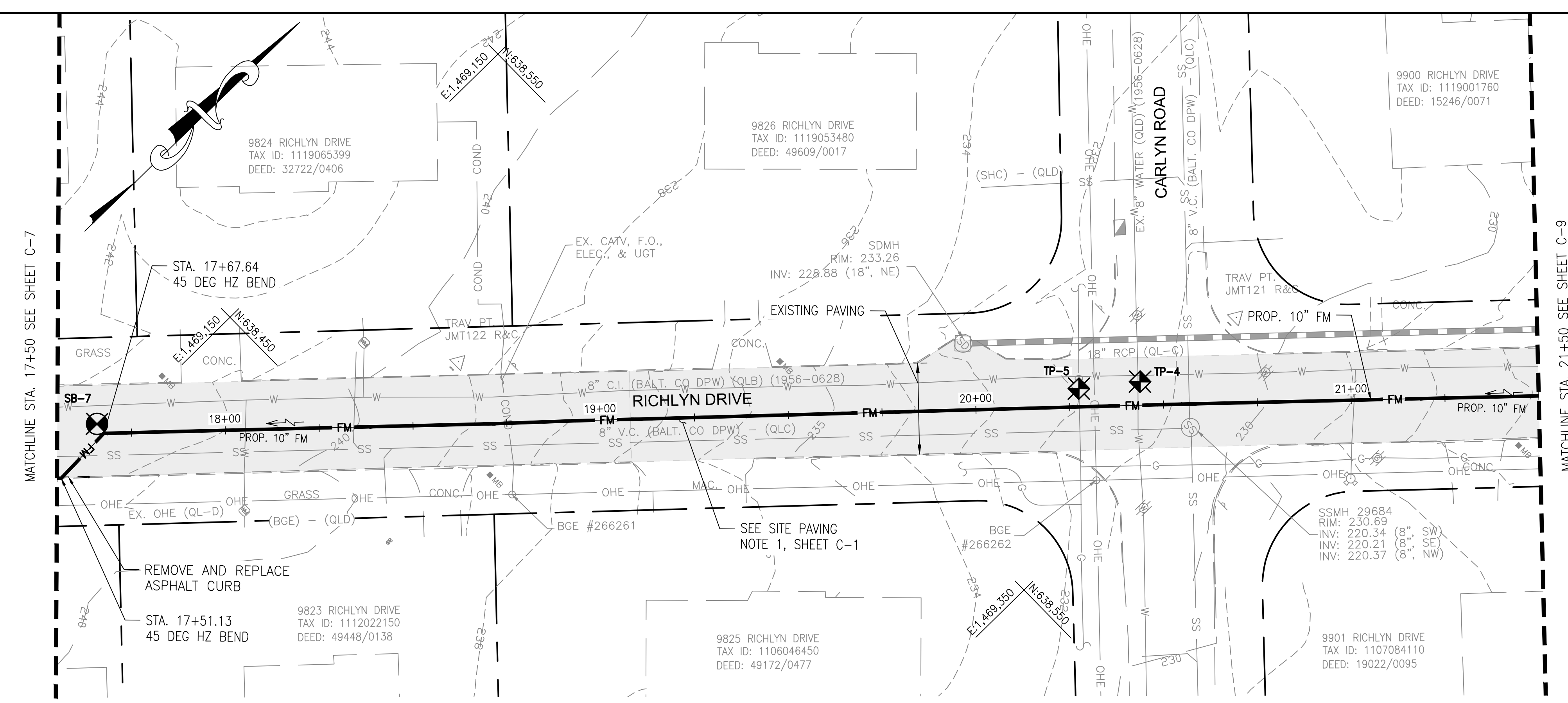
FITTING TABLE		
NO.	DESCRIPTION	SIZE
400'	D.I.P CLASS 54 (RESTRAINED JOINTS)	10"
2	45 DEG. HZ BEND	10"

SOIL BORING DATA		
BORING NO.	NORTHING	EASTING
SB-7	638404.80	1469145.43

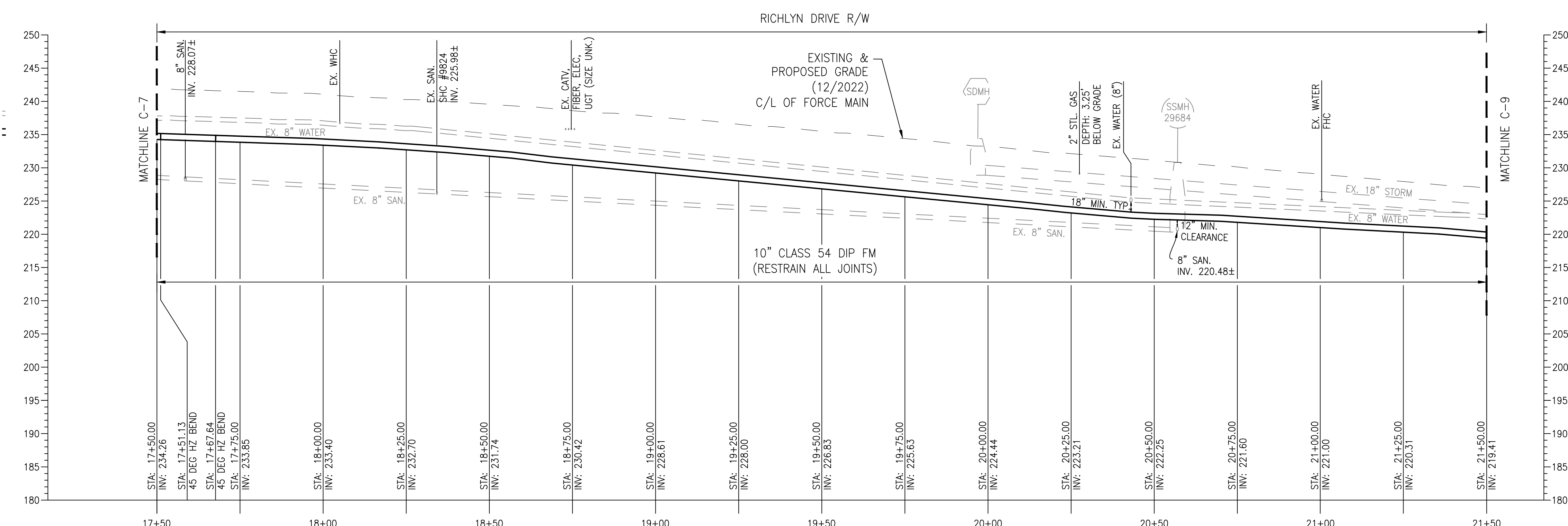
TEST PIT FIELD DATA						
TEST PIT NO.	NORTHING	EASTING	DEPTH	OFFSET	TOP ELEV.	UTILITY
TP-4	638,610.94	1,469,332.09	5.95 FT.	6.27' (L)	225.33	8" C.I. WATER
TP-5	638,598.02	1,469,321.98	3.25 FT.	4.28' (L)	228.67	2" STL. GAS

SITE GRADING NOTE:

- CONTRACTOR SHALL RESTORE DISTURBED PAVEMENT FROM UTILITY CUTS TO THEIR ORIGINAL SLOPE AND GRADE IN EQUAL OR BETTER CONDITION.



PLAN: STA. 17+50 TO STA. 21+50
SCALE: 1"=20'-0"



PROFILE: STA. 17+50 TO STA. 21+50
HORIZ. 1"=20'
VERT. 1"=10'



	PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 14446 EXPIRATION DATE 5/26/2027		AS-BUILT / REVISION BY: _____ DATE: _____ P.W.A. NO. _____ KEY SHEET POSITION SH# _____ DRAWING SCALE: _____ DPW AND TRANSPORTATION: _____		BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION – BUREAU OF ENGINEERING AND CONSTRUCTION RICHLYN MANOR SANITARY PUMPING STATION FORCE MAIN PLAN & PROFILE STA. 17+50 TO STA. 21+50 SUBDIVISION: RICHLYN MANOR PERRY HALL, MD ELECTION DIST. NO.: 11C5	SHEET DESIGNATION C-8 CONTRACT NUMBER 24084SX0 PROJECT NUMBER PROJ-10000060 SHEET 8 OF 34 DRAWING NUMBER 2024-1145 FILE NO.: _____
	CONTRACT COMPLETION BOX ENGINEER: CARROLL ENGINEERING, 215 SCHILLING CIRCLE, P.O. BOX 410-785-7483, BELLEVILLE VALLEY, MD 21031, INFO@CEENGINEERING.COM DGN BY: MJE, MJP BUREAU OF ENGINEERING AND CONSTRUCTION DWN BY: MJE, MJP TRAFFIC HIGHWAYS STRUCTURES STORM DRAINS SEWER WATER FIELD ENGINEER BUR. OF ENGINEERING & CONSTRUCTION		SEE DRAWING 2024-1136 FOR ORIGINAL SIGNATURES			
	BY: _____ DATE: _____ CHKD BY: CMS DATE REVIEWED: _____		SEE DRAWING 2024-1136 FOR ORIGINAL SIGNATURES			
	MARYLAND COORDINATE SYSTEM HORIZONTAL - NAD 83/2011 VERTICAL - NAVD 88		SEE DRAWING 2024-1136 FOR ORIGINAL SIGNATURES			

FORCE MAIN STAKEOUT			
LOCATION	ITEM	NORTHING	EASTING
STA. 22+27.27	CV101	638,739.79	1,469,492.78

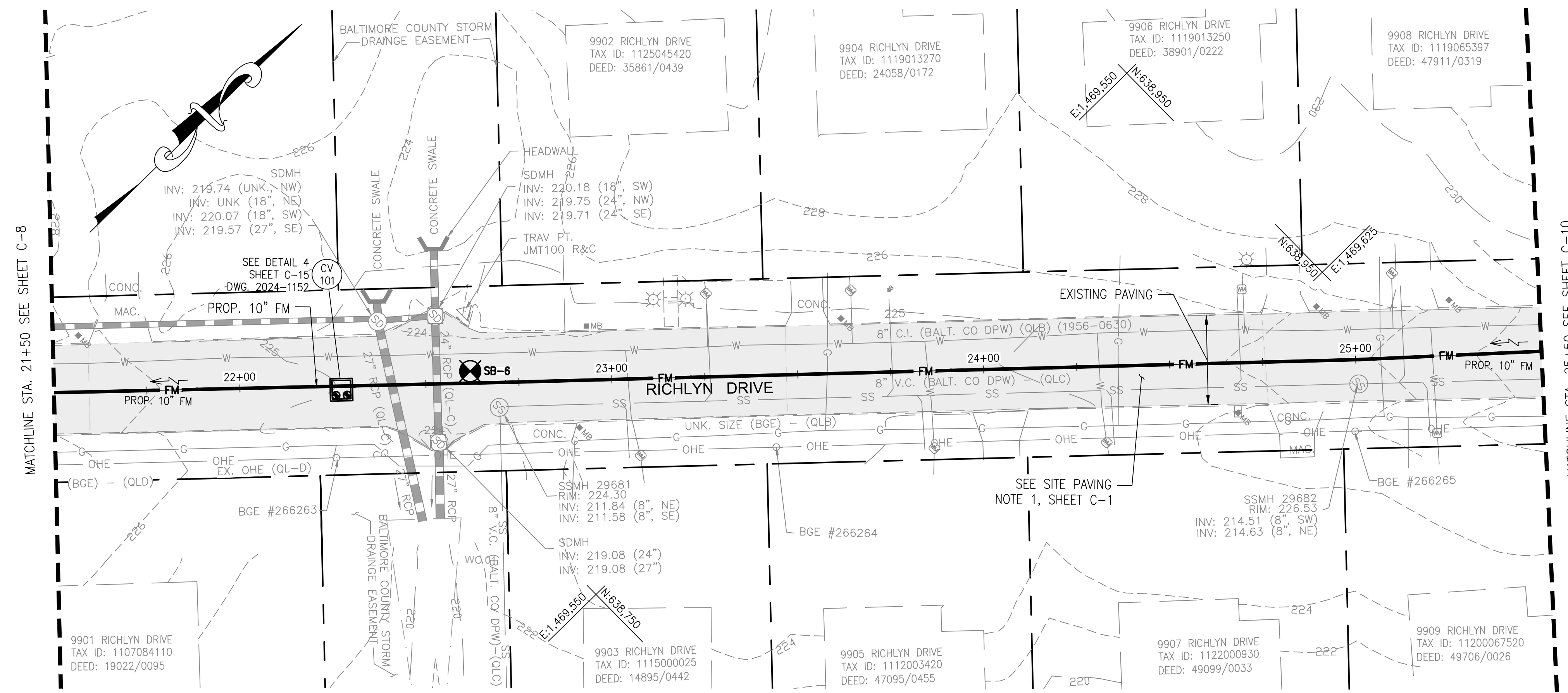
FITTING TABLE		
NO.	DESCRIPTION	SIZE
400'	D.I.P CLASS 54 (RESTRAINED JOINTS)	10"

STRUCTURE TABLE			
VAULT NO.	DESCRIPTION	RIM	INVERT
CV101	30" SANITARY MANHOLE (DEWATERING VALVE AND VAULT)	225.00± (MATCH GRADE)	215.75

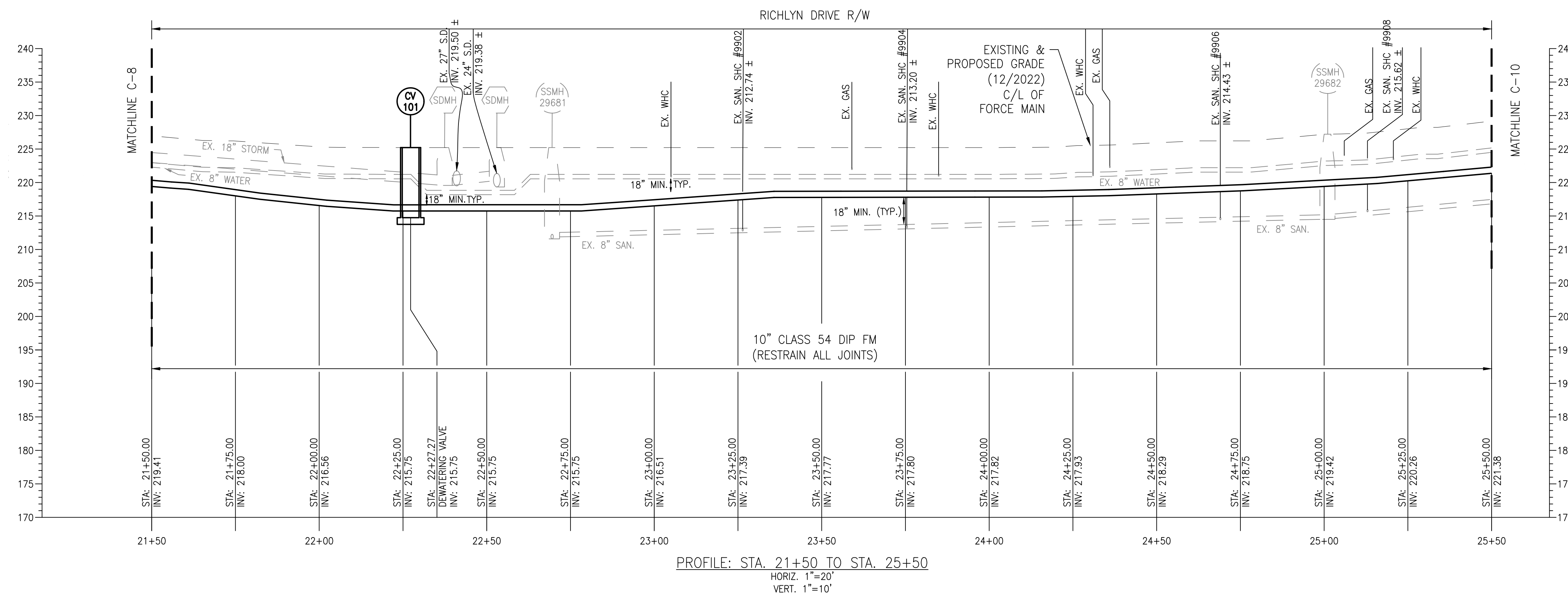
SOIL BORING DATA		
BORING NO.	NORTHING	EASTING
SB-6	638767.91	1469483.48

SITE GRADING NOTE:

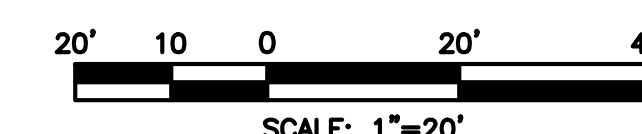
- CONTRACTOR SHALL RESTORE DISTURBED PAVEMENT FROM UTILITY CUTS TO THEIR ORIGINAL SLOPE AND GRADE IN EQUAL OR BETTER CONDITION.



PLAN: STA. 21+50 TO STA. 25+50
SCALE: 1"=20'-0"



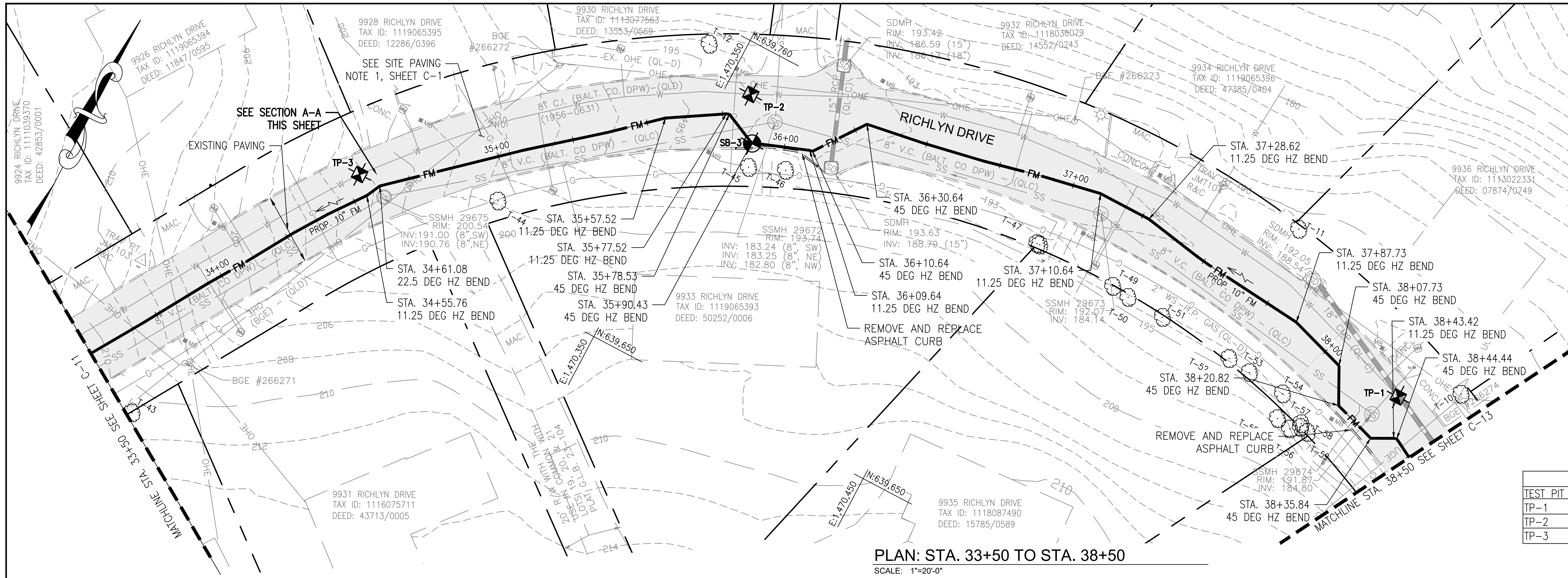
PROFILE: STA. 21+50 TO STA. 25+50
HORIZ. 1"=20'
VERT. 1"=10'



MARYLAND COORDINATE SYSTEM
HORIZONTAL - NAD 83/2011
VERTICAL - NAVD 88

	PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 14446 EXPIRATION DATE 5/25/2027		AS-BUILT / REVISION BY: _____ DATE: _____ P.W.A. NO. _____ KEY SHEET POSITION SH# _____	BY DATE R.O.W. NO. _____ QSE _____	DRAWING SCALE PLAN SCALE: AS SHOWN PROFILE SCALE: HORIZ: 1"=20' VERT: 1"=10'	DPW AND TRANSPORTATION SEE DRAWING 2024-1136 FOR ORIGINAL SIGNATURES BUR. OF ENGINEERING & CONSTRUCTION
	CONTRACT COMPLETION BOX ENGINEER: CARROLL ENGINEERING, INC. 215 SCHILLING CIRCLE, PH. 410-785-7483 DGN BY: MJE, MJP CHECKED BY: MJE, MJP DATE: 7/21/2025		BUREAU OF ENGINEERING AND CONSTRUCTION TRAFFIC HIGHWAYS STRUCTURES STORM DRAINS SEWER REVIEWED BY: _____ DATE REVIEWED: _____	SEE DRAWING 2024-1136 FOR ORIGINAL SIGNATURES		
	AS-BUILT PER RECORD PRINT		SUBDIVISION: RICHLYN MANOR PERRY HALL, MD			
	DATE: 7/21/2025		ELECTION DIST. NO.: 11C5			

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION - BUREAU OF ENGINEERING AND CONSTRUCTION RICHLYN MANOR SANITARY PUMPING STATION FORCE MAIN PLAN & PROFILE STA. 21+50 TO STA. 25+50		SHEET DESIGNATION C-9	CONTRACT NUMBER 24084SX0
SUBDIVISION: RICHLYN MANOR PERRY HALL, MD		PROJECT NUMBER PROJ-10000060	PROJECT NUMBER PROJ-10000060
ELECTION DIST. NO.: 11C5		SHEET 9 OF 34 DRAWING NUMBER 2024-1146	FILE NO.:



FITTING TABLE		
NO.	DESCRIPTION	SIZE
500'	D.I.P CLASS 54 (RESTRAINED JOINTS)	10"
8	11.25 DEG. HZ BEND	10"
1	22.5 DEG. HZ BEND	10"
8	45 DEG. HZ BEND	10"

FORCE MAIN STAKEOUT				
LOCATION	ITEM	NORTHING	EASTING	
STA. 34+55.76	11.25' HB	639,656.20	1,470,262.46	
STA. 34+61.08	22.5' HB	639,660.99	1,470,264.78	
STA. 35+57.52	11.25' HB	639,724.49	1,470,337.34	
STA. 35+77.52	11.25' HB	639,735.02	1,470,354.34	
STA. 35+78.53	45' HB	639,735.37	1,470,355.29	
STA. 35+90.43	45' HB	639,730.44	1,470,366.12	
STA. 36+09.64	11.25' HB	639,737.17	1,470,384.11	
STA. 36+10.64	45' HB	639,737.33	1,470,385.10	
STA. 36+30.64	45' HB	639,753.56	1,470,396.79	
STA. 37+10.64	11.25' HB	639,769.16	1,470,475.22	
STA. 37+28.62	11.25' HB	639,769.16	1,470,493.21	
STA. 37+87.73	11.25' HB	639,761.77	1,470,551.81	
STA. 38+07.73	45' HB	639,755.68	1,470,570.86	
STA. 38+20.82	45' HB	639,744.04	1,470,576.86	
STA. 38+35.84	45' HB	639,739.47	1,470,591.16	
STA. 38+43.42	11.25' HB	639,742.99	1,470,597.88	
STA. 38+44.44	45' HB	639,743.27	1,470,598.80	

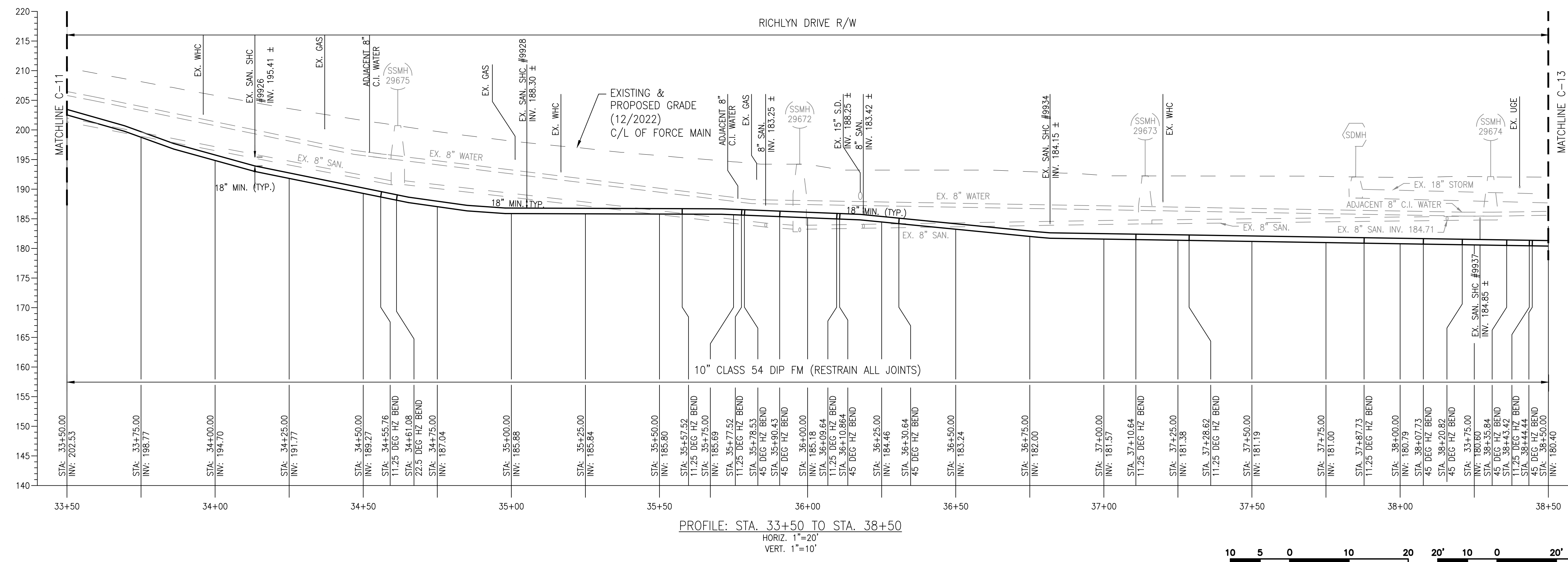
SOIL BORING DATA		
BORING NO.	NORTHING	EASTING
SB-3	639730.30	1470366.38

SITE GRADING NOTE:

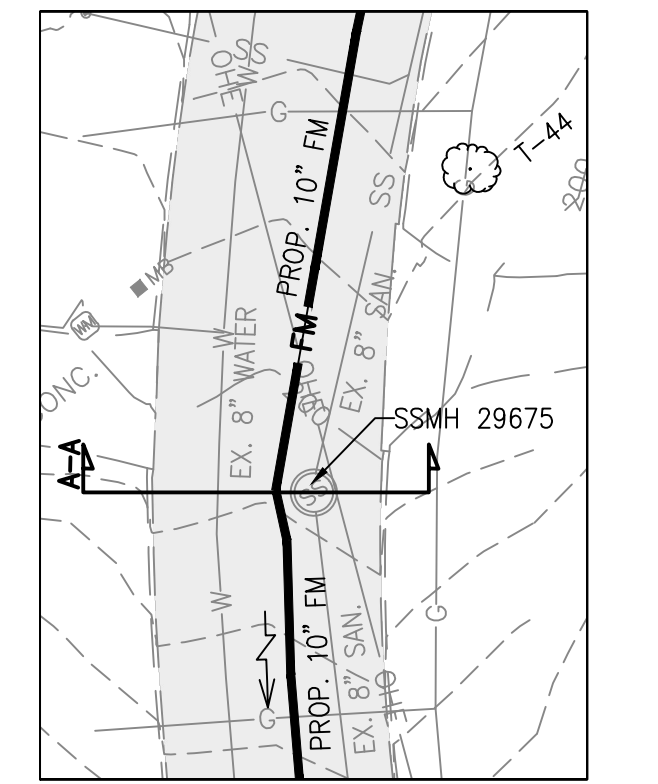
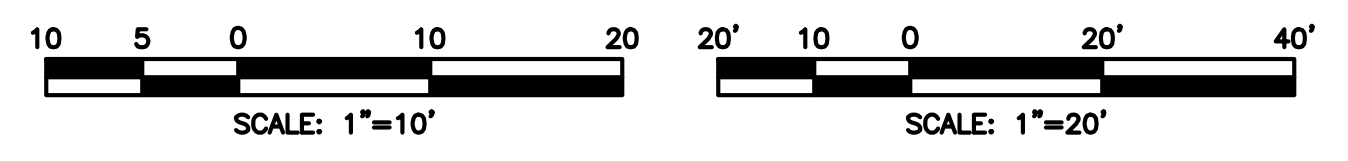
1. CONTRACTOR SHALL RESTORE DISTURBED PAVEMENT FROM UTILITY CUTS TO THEIR ORIGINAL SLOPE AND GRADE IN EQUAL OR BETTER CONDITION.

TEST PIT FIELD DATA						
TEST PIT NO.	NORTHING	EASTING	DEPTH	OFFSET	TOP ELEV.	UTILITY
TP-1	639,755.66	1,470,592.83	6.08 FT.	15.92' (L)	185.72	8" C.I. WATER
TP-2	639,744.42	1,470,358.46	6.15 FT.	15.60' (L)	187.81	8" C.I. WATER
TP-3	639,661.23	1,470,257.13	5.20 FT.	6.98' (L)	195.88	8" C.I. WATER

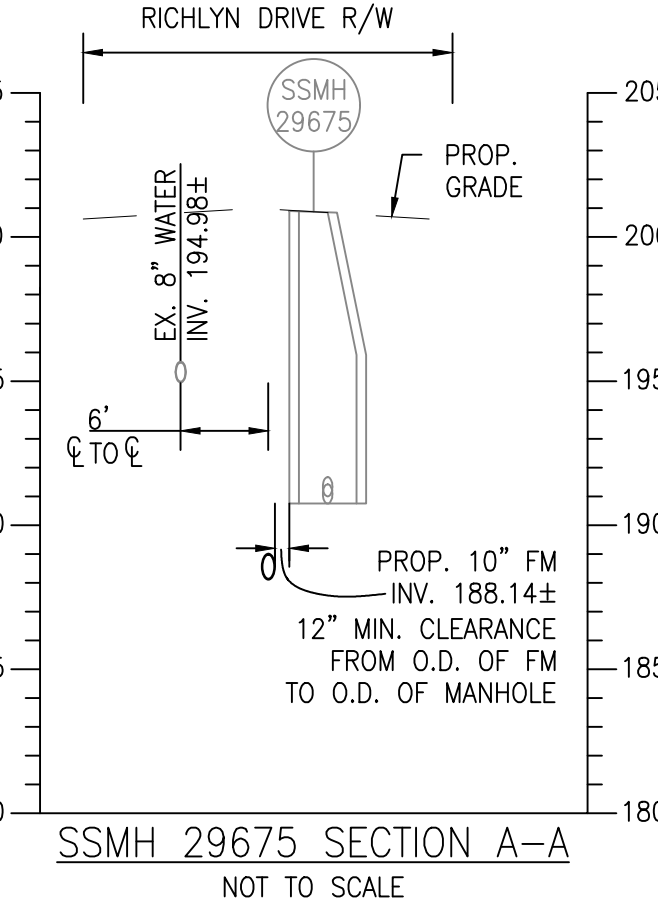
PLAN: STA. 33+50 TO STA. 38+50
SCALE: 1"=20'-0"



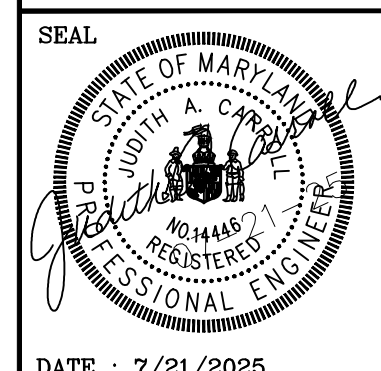
PROFILE: STA. 33+50 TO STA. 38+50
HORIZ. 1"=20'
VERT. 1"=10'



SECTION A-A INSET



SSMH 29675 SECTION A-A
NOT TO SCALE



PROFESSIONAL CERTIFICATION		AS-BUILT / REVISION		BY	DATE	P.W.A. NO.	KEY SHEET	POSITION	DRAWING SCALE	DPW AND TRANSPORTATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.									AS SHOWN	SEE DRAWING 2024-1136 FOR ORIGINAL SIGNATURES
LICENSE NO. 14446 EXPIRATION DATE 6/26/2027		CONTRACT COMPLETION BOX							HORIZ: 1"=20'	
ENGINEER: CARROLL ENGINEERING 215 SCHILLING CIRCLE, PH. 410-795-7423 SUITE 101, HUNTS VALLEY, MD 21031 INFO@CARROLLENGINEERING.COM		BUREAU OF ENGINEERING AND CONSTRUCTION							VERT: 1"=10'	
AS-BUILT PER RECORD PRINT		REVIEWED BY:								
BY: DATE:		DATE REVIEWED:								
CHKD BY: CMS										

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION – BUREAU OF ENGINEERING AND CONSTRUCTION

RICHLYN MANOR SANITARY PUMPING STATION FORCE MAIN
PLAN & PROFILE STA. 33+50 TO STA. 38+50

SUBDIVISION: RICHLYN MANOR PERRY HALL, MD ELECTION DIST. NO.: 11C5

SHEET DESIGNATION	CONTRACT NUMBER
C-12	24084SX0
	PROJECT NUMBER
	PROJ-10000060
	SHEET 12 OF 34
	DRAWING NUMBER
	2024-1149
	FILE NO.:

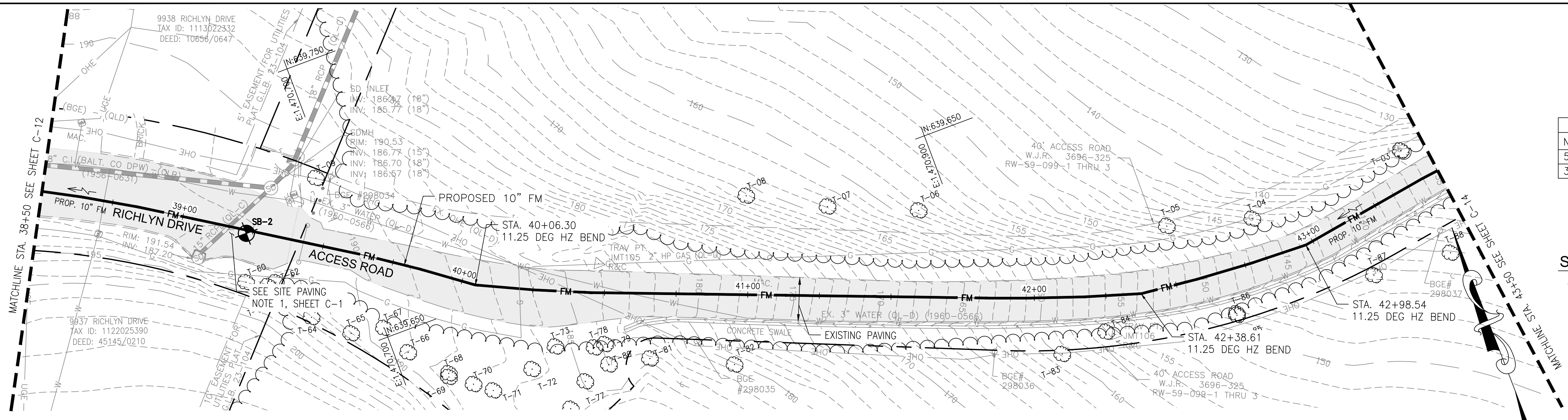
FORCE MAIN STAKEOUT			
LOCATION	ITEM	NORTHING	EASTING
STA. 40+06.30	11.25' HB	639,656.25	1,470,735.01
STA. 42+38.61	11.25' HB	639,571.82	1,470,951.47
STA. 42+98.54	11.25' HB	639,567.54	1,471,011.29

FITTING TABLE		
NO.	DESCRIPTION	SIZE
500'	D.I.P CLASS 54 (RESTRAINED JOINTS)	10"
3	11.25 DEG. HZ BEND	10"

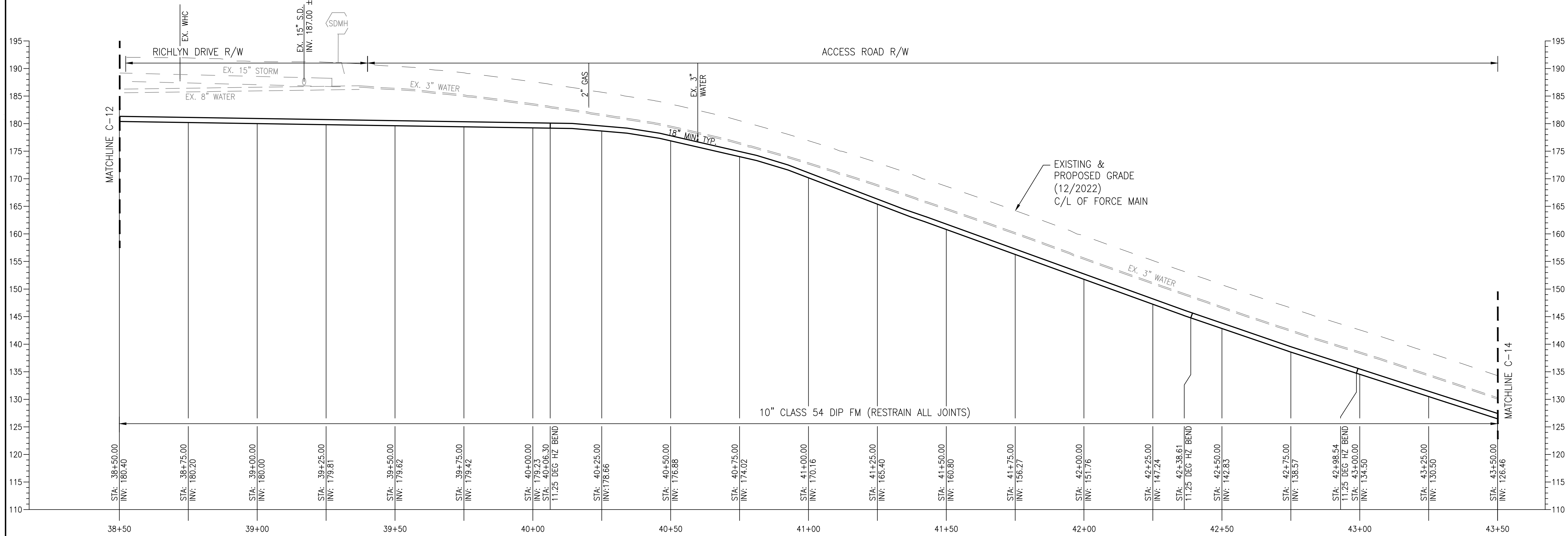
SOIL BORING DATA		
BORING NO.	NORTHING	EASTING
SB-2	639701.19	1470666.51

SITE GRADING NOTE:

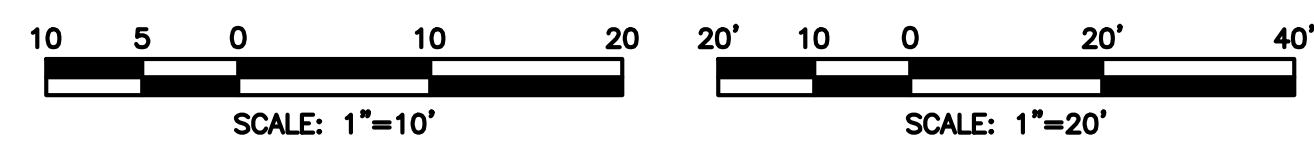
- CONTRACTOR SHALL RESTORE DISTURBED PAVEMENT FROM UTILITY CUTS TO THEIR ORIGINAL SLOPE AND GRADE IN EQUAL OR BETTER CONDITION.



PLAN: STA. 38+50 TO STA. 43+50
SCALE: 1"=20'-0"



PROFILE: STA. 38+50 TO STA. 43+50
HORIZ. 1"=20'
VERT. 1"=10'

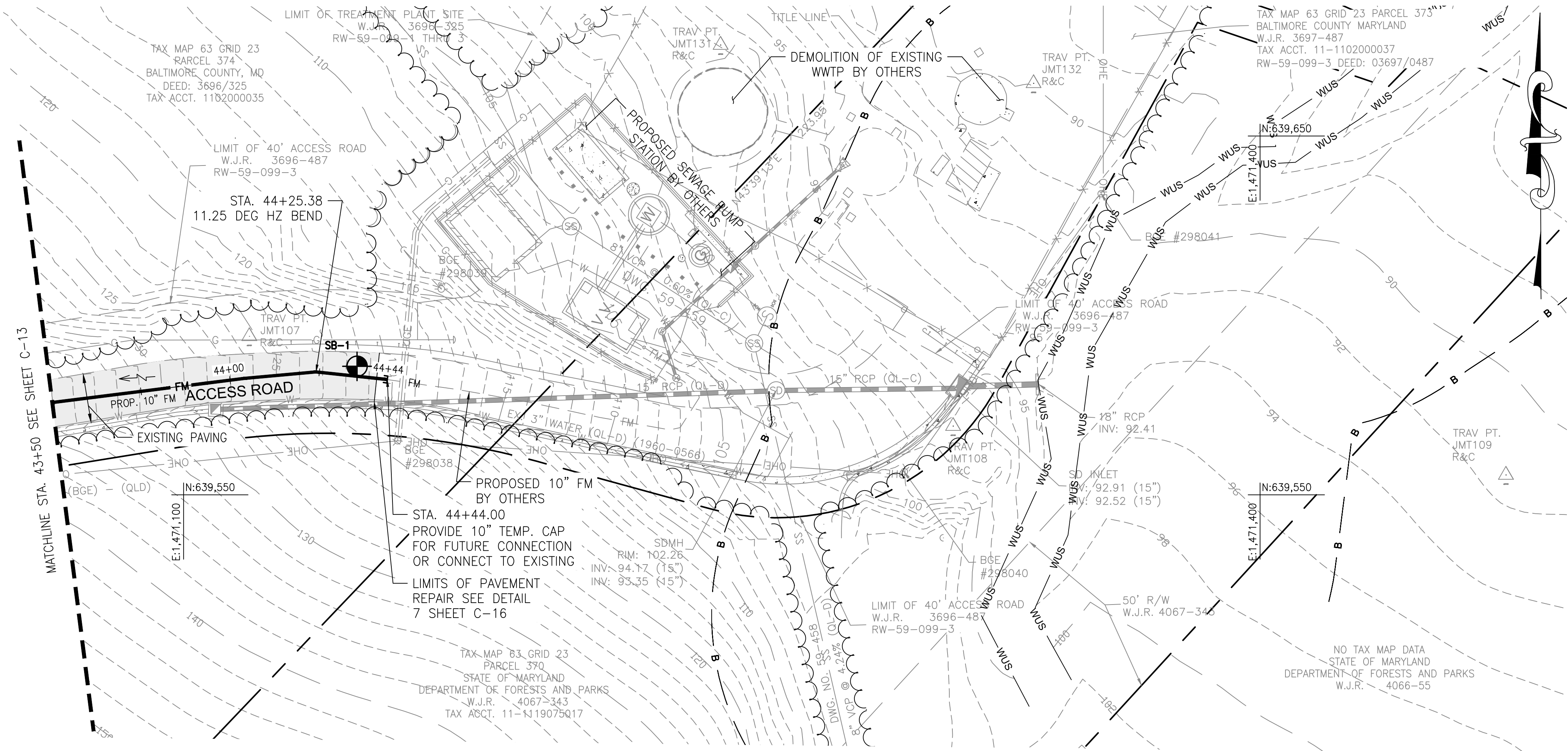


MARYLAND COORDINATE SYSTEM
HORIZONTAL - NAD 83/2011
VERTICAL - NAVD 88

	PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 14446 EXPIRATION DATE 5/25/2027		AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET POSITION	DRAWING SCALE PLAN SCALE: AS SHOWN PROFILE SCALE: HORIZ: 1"=20' VERT: 1"=10'	DPW AND TRANSPORTATION	
	CONTRACT COMPLETION BOX		TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	
	ENGINEER: CARROLL ENGINEERING 215 SCHILLING CIRCLE, PH. 410-785-7483 SUITE 105, HUNTS VALLEY, MD 21031 INFO@CEENGINEERING.COM AS-BUILT PER RECORD PRINT		DGN BY: MJE, MJP DWN BY: MJE, MJP	BUREAU OF ENGINEERING AND CONSTRUCTION						
	BY: DATE:		CHKD BY: CMS	DATE REVIEWED:						

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION - BUREAU OF ENGINEERING AND CONSTRUCTION		
RICHLYN MANOR SANITARY PUMPING STATION FORCE MAIN		
PLAN & PROFILE STA. 38+50 TO STA. 43+50		
SUBDIVISION: RICHLYN MANOR	PERRY HALL, MD	ELECTION DIST. NO.: 11C5

SHEET DESIGNATION C-13	CONTRACT NUMBER 24084SX0
PROJECT NUMBER PROJ-10000060	SHEET 13 OF 34
DRAWING NUMBER 2024-1150	FILE NO.:



PLAN: STA. 43+50 TO STA. 44+44
SCALE: 1"=20'-0"

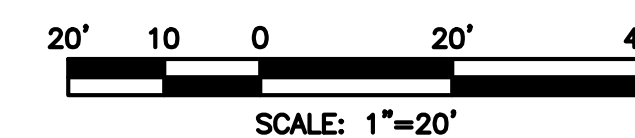
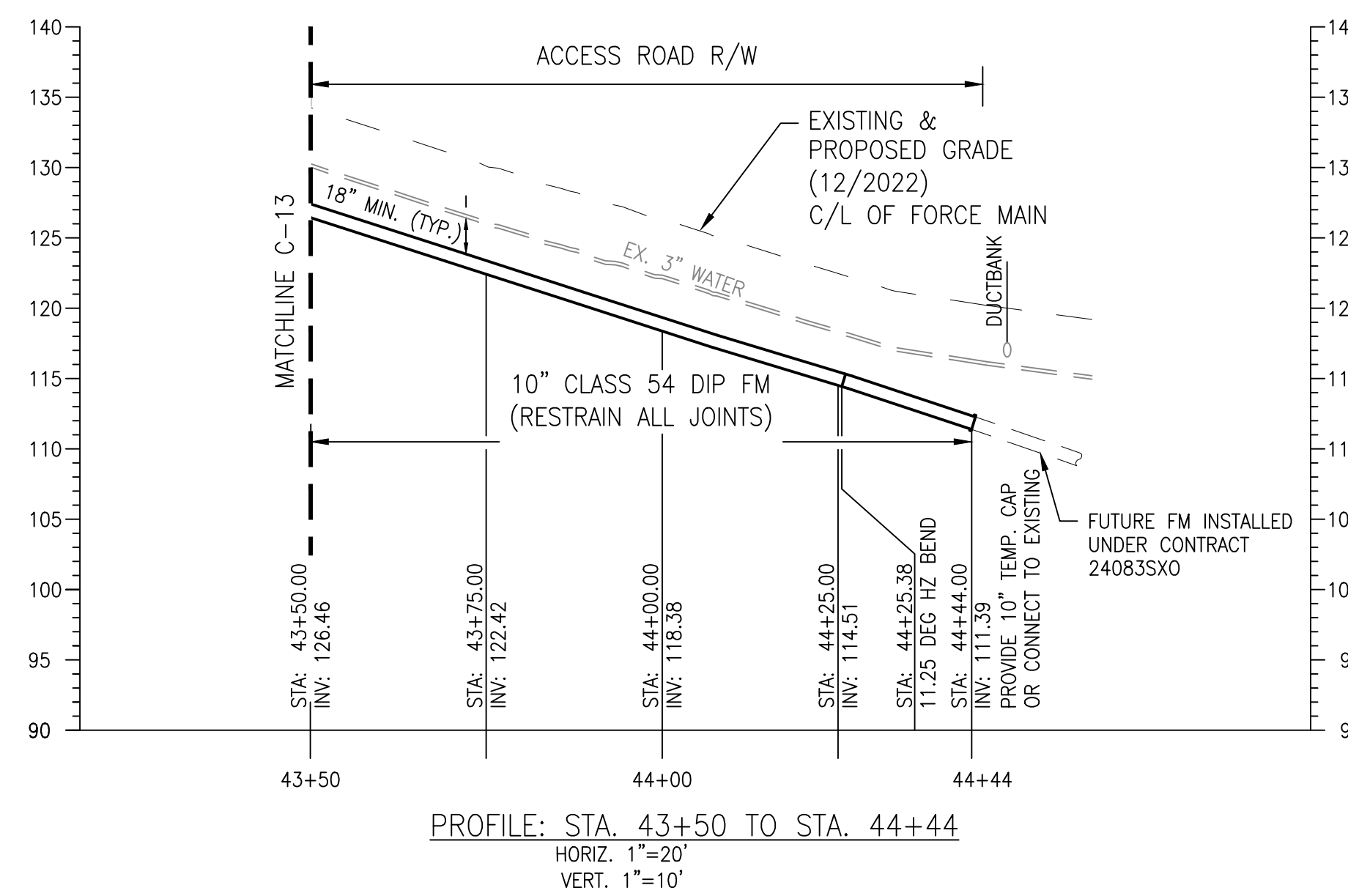
FORCE MAIN STAKEOUT			
LOCATION	ITEM	NORTHING	EASTING
STA. 44+25.38	11.25' HB	639,584.25	1,471,136.91

FITTING TABLE		
NO.	DESCRIPTION	SIZE
94'	D.I.P CLASS 54 (RESTRAINED JOINTS)	10"
1	11.25 DEG. HZ BEND	10"

SOIL BORING DATA		
BORING NO.	NORTHING	EASTING
SB-1	639,585.80	1,471,148.32

SITE GRADING NOTE:

- CONTRACTOR SHALL RESTORE DISTURBED PAVEMENT FROM UTILITY CUTS TO THEIR ORIGINAL SLOPE AND GRADE IN EQUAL OR BETTER CONDITION.



MARYLAND COORDINATE SYSTEM
HORIZONTAL - NAD 83/2011
VERTICAL - NAVD 88

	PROFESSIONAL CERTIFICATION		AS-BUILT / REVISION	BY	DATE	P.W.A. NO.	KEY SHEET	POSITION	DRAWING SCALE	DPW AND TRANSPORTATION	
	I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.					R.O.W. NO.	QSE	44N32 44N33 46N33 46N34	AS SHOWN HORIZ: 1"=20' VERT: 1"=10'	SEE DRAWING 2024-1136 FOR ORIGINAL SIGNATURES	
	LICENSE NO. 14446 EXPIRATION DATE 5/26/2027		CONTRACT COMPLETION BOX								
	ENGINEER: CARROLL ENGINEERING 215 SCHILLING CIRCLE, PH. 410-785-7423 SUITE 105 SMILE HONY VALLEY, MD 21031 INFO@CEENGINEERING.COM	DGN BY: MJE, MJP	BUREAU OF ENGINEERING AND CONSTRUCTION	TRAFFIC	HIGHWAYS	STRUCTURES	STORM DRAINS	SEWER	WATER	FIELD ENGINEER	BUR. OF ENGINEERING & CONSTRUCTION
AS-BUILT PER RECORD PRINT	DWN BY: MJE, MJP	REVIEWED BY:									
BY: DATE:	CHKD BY: CMS	DATE REVIEWED:									
SEE DRAWING 2024-1136 FOR ORIGINAL SIGNATURES											

BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION - BUREAU OF ENGINEERING AND CONSTRUCTION	
RICHLYN MANOR SANITARY PUMPING STATION FORCE MAIN	
PLAN & PROFILE STA. 43+50 TO STA. 44+45	
SUBDIVISION: RICHLYN MANOR	PERRY HALL, MD
ELECTION DIST. NO.: 11C5	

SHEET DESIGNATION	CONTRACT NUMBER
C-14	24084SX0
PROJECT NUMBER	PROJ-10000060
SHEET 14 OF 34	
DRAWING NUMBER	2024-1151
FILE NO.:	