

**ARLINGTON VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL SERVICES  
 Facilities & Engineering Division  
 Engineering Bureau  
 2100 Clarendon Boulevard, Suite 813  
 Arlington, VA 22201  
 Phone: 703.228.3629  
 Fax: 703.228.3606

**Kimley-Horn and Associates, Inc.**  
 ©2022 KIMLEY-HORN AND ASSOCIATES, INC.  
 11400 Commerce Park Drive, Suite 400  
 Reston, Virginia 20190  
 Phone: 703-674-1500  
 Fax: 703-674-1500

Seal  
 COMMONWEALTH OF VIRGINIA  
 EDWARD J. DELLO  
 Lic. No. 0402054366  
 09/22/2022  
 PROFESSIONAL ENGINEER

Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

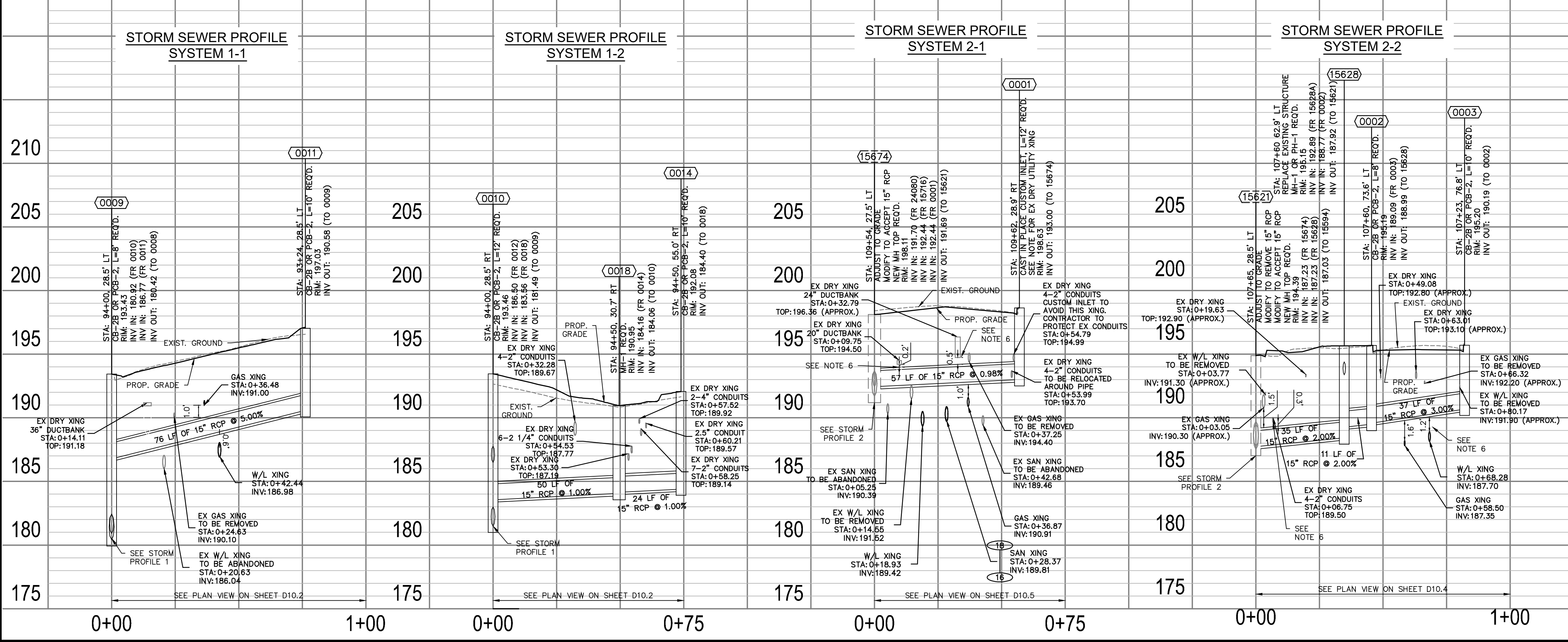
Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

0+00 1+00 2+00 3+00 4+00 5+00 6+00 6+50



**FOR STORM CONST. ONLY**

- NOTES:
- PROFILE STATIONING ALONG CENTERLINE OF PIPE
  - SEE SERIES 10 FOR FULL UTILITY NETWORK PLAN VIEWS.
  - CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE PROJECT LIMITS TO THE EXTENT POSSIBLE AT ALL TIMES. STORM SEWER SHALL BE INSTALLED AND SEQUENCED TO MINIMIZE DOWN TIME REQUIRED FOR TIE-IN OR CUT-OVER OPERATIONS. SHOULD PUMP-AROUNDS BE REQUIRED TO COMPLETE STORM SEWER INSTALLATIONS, THEY WILL BE INCIDENTAL TO THE COST OF STORM PIPE AND STRUCTURE INSTALLATION.
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  - OFFSET OF EXIST. FIBER LINE AND LIGHTING LINE MAY BE REQUIRED FOR PROPOSED IMPROVEMENTS. SEE DETAIL SHEET D2.1.
  - WHERE MINIMUM VERTICAL CLEARANCES BETWEEN UTILITIES CANNOT BE MET, CONTRACTOR TO INSTALL CONCRETE PIERS AND/OR REINFORCED CONCRETE CRADLE PER ARLINGTON COUNTY STANDARD DRAWING M-7.0.
  - ALL PROPOSED STORMWATER PIPES SHALL BE CLASS III RCP.

Revisions \_\_\_\_\_ Date \_\_\_\_\_

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Designed: DCD  
 Drawn: PNH  
 Checked: EJD  
 Miss Utility Transmittal #:  
 \_\_\_\_\_

Filename: 010073-D-STRM.dwg  
 Path: \_\_\_\_\_  
 Plotted: September 22, 2022  
 Plotted by: Miguel.Tyshing

ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

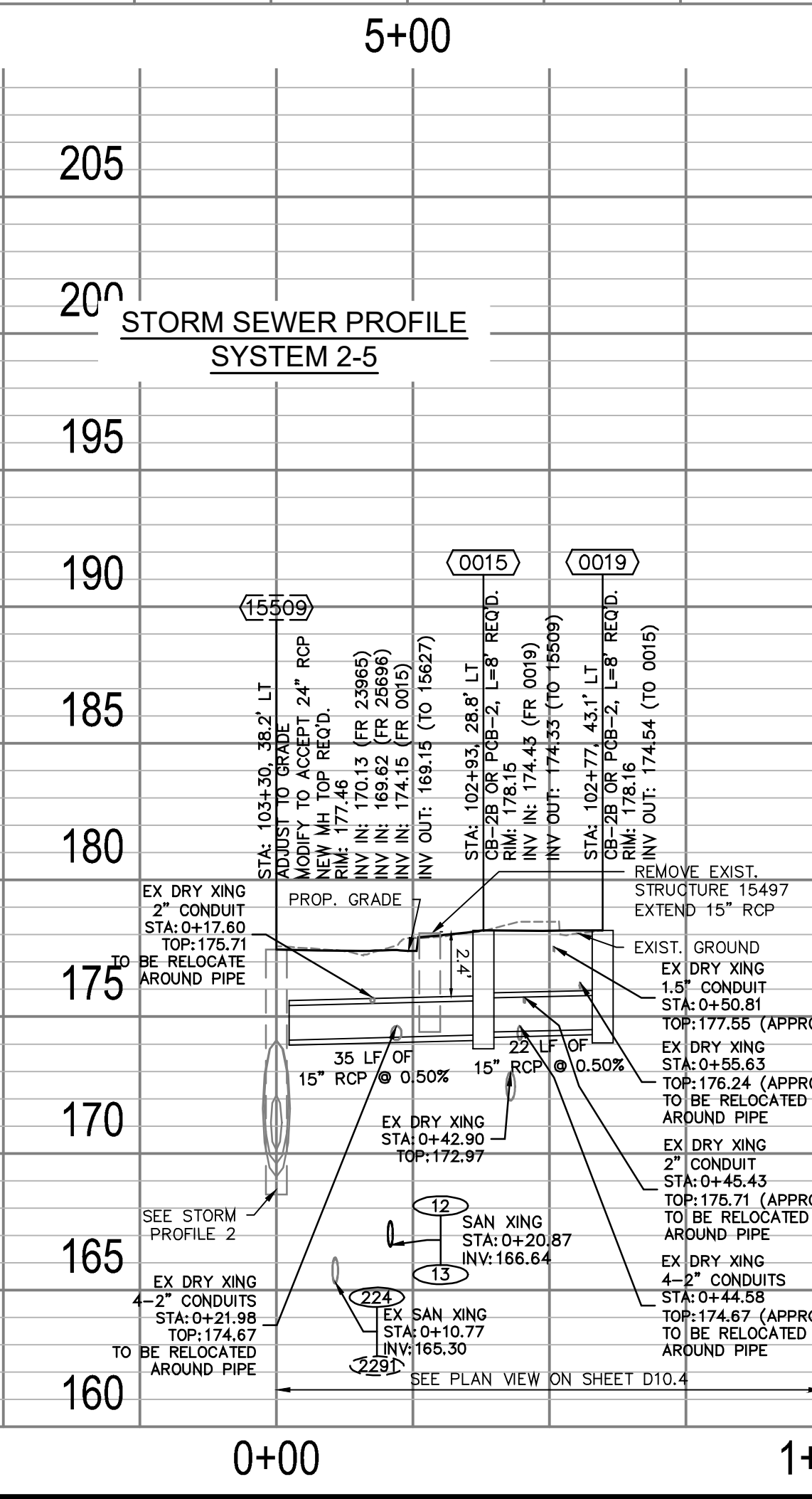
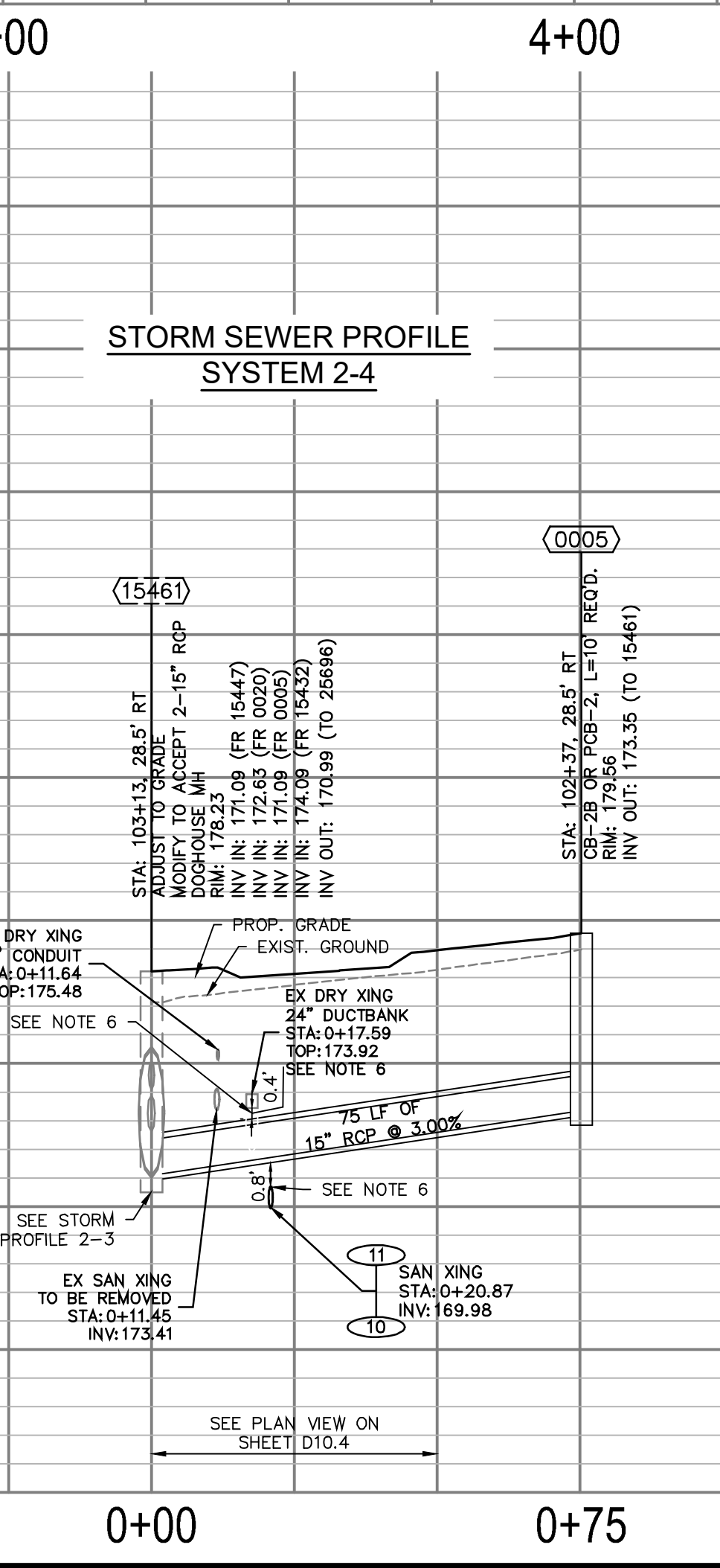
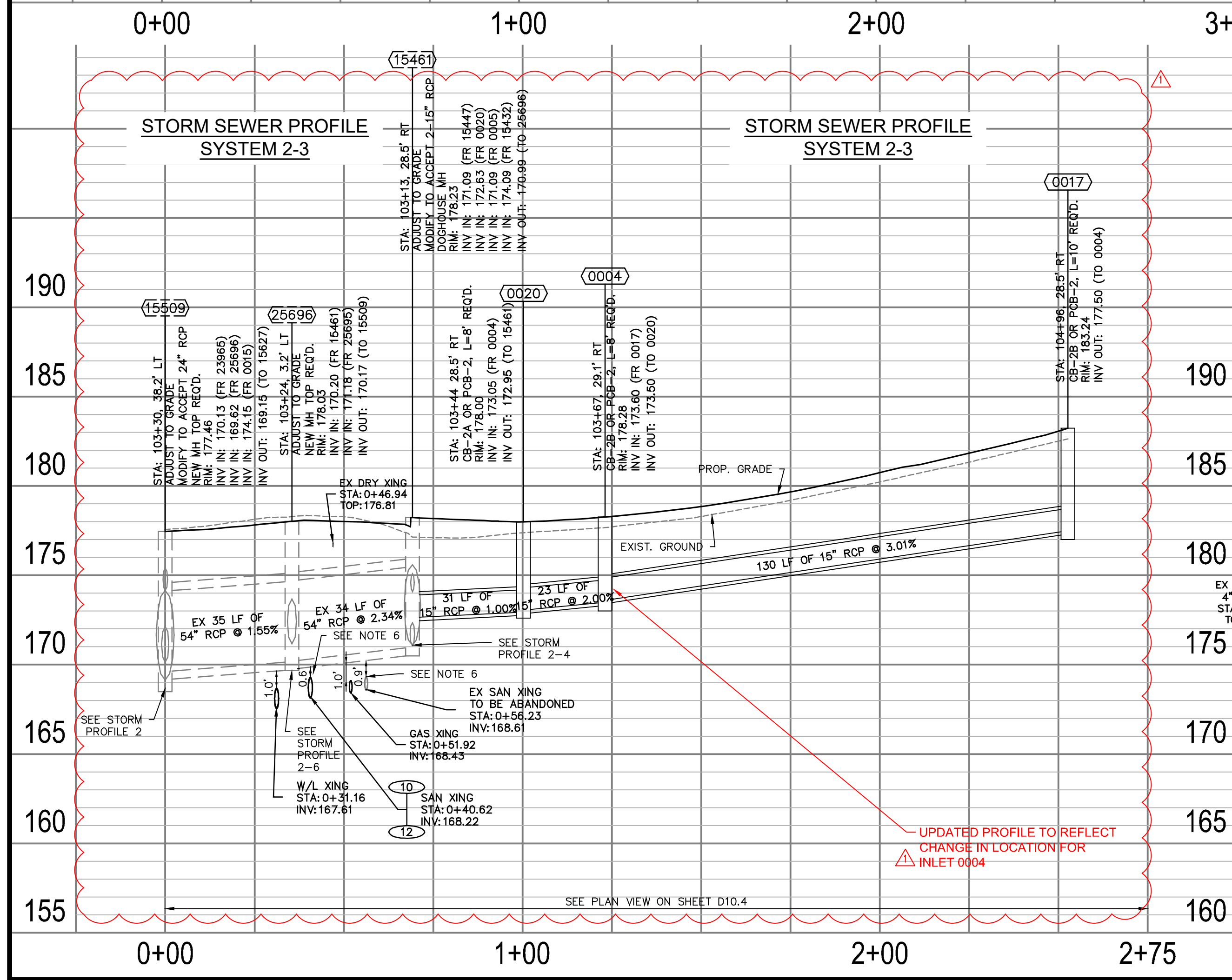
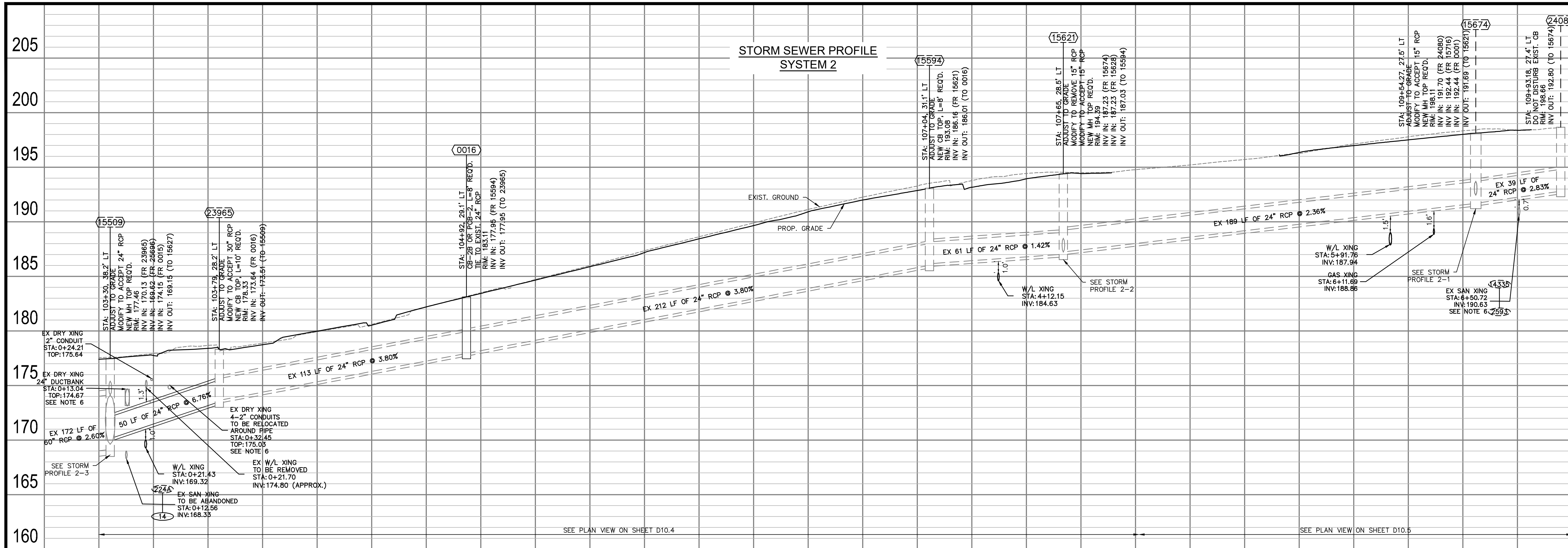
**STORM PROFILES  
 COLUMBIA PIKE - ROUTE 244  
 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
 SEGMENT D**

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D11.1 of D11.8

**ARLINGTON VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

*Rita D. Araya*  
 LUIS ARAYA  
 BUREAU CHIEF, DES - DEVELOPMENT SERVICES

3/7/2023  
 APPROVAL DATE



**FOR STORM CONST. ONLY**

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ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

**STORM PROFILES  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT D**

SCALE: HOR. 1" = 25' VERT. 1" = 5'  
SHEET: D11.2 of D11.8

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Seal

COMMONWEALTH OF VIRGINIA  
EDWARD J. DELUO  
Lic. No. 0402054356  
01/20/2023  
PROFESSIONAL ENGINEER

Approvals Date

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions Date

Revisions	Date
▲ Elliott Storm Revision	11/17/2022

Designed: DCD  
Drawn: PNH  
Checked: EJD  
Miss Utility Transmittal #:

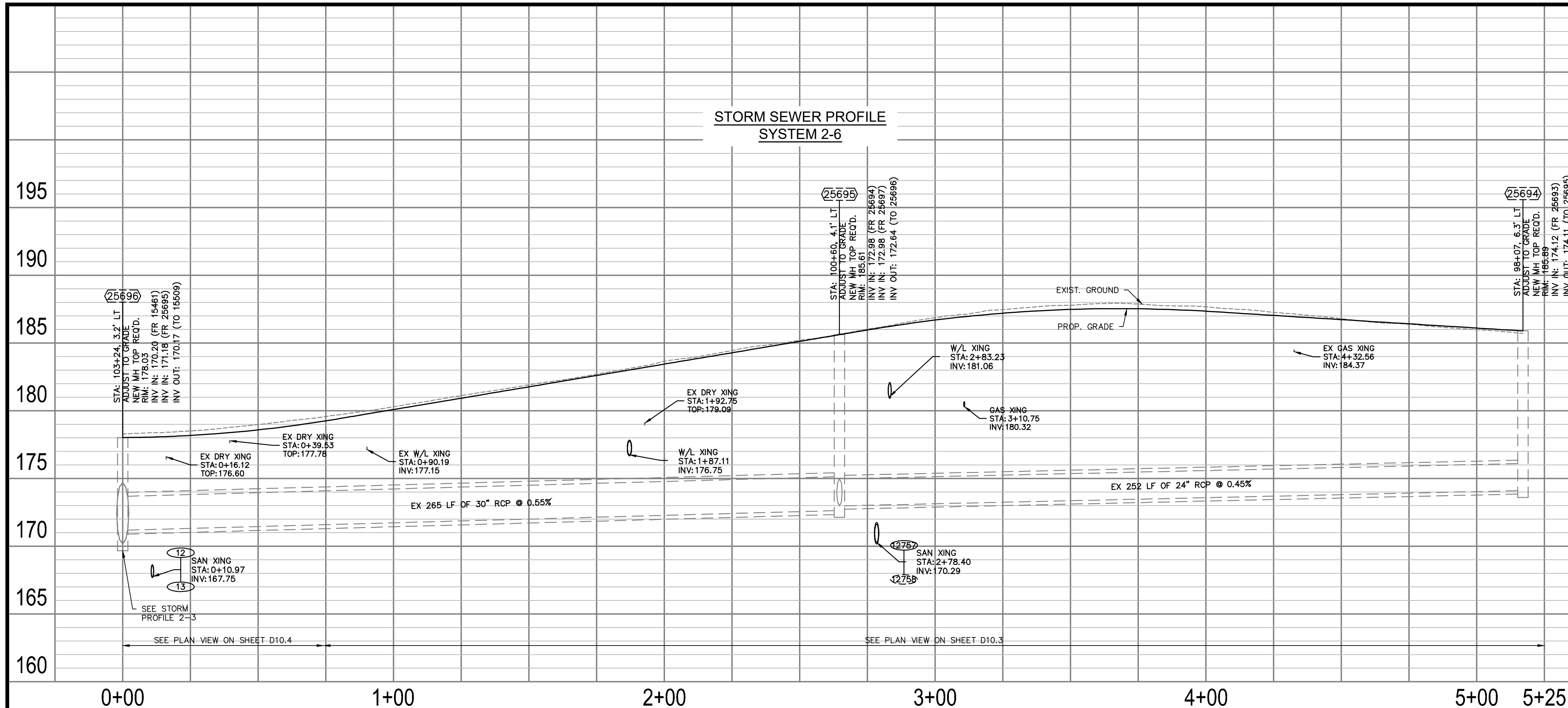
Filename: 010073-D-STRM.dwg  
Path: C:\Users\jdeluo\OneDrive\Documents\010073-D-STRM.dwg  
Plotted: January 20, 2023  
Plotted by: Miguel Tyshing

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

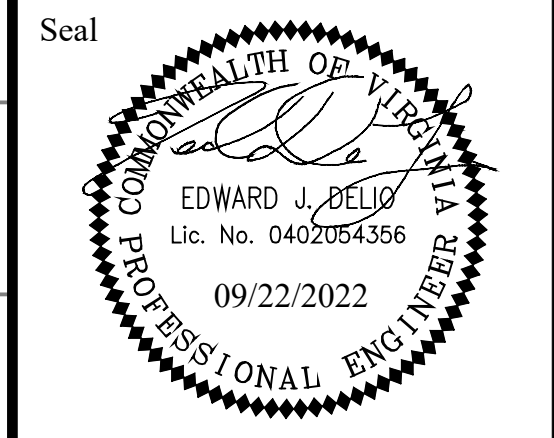
LUIS ARAYA  
BUREAU CHIEF, DES - DEVELOPMENT SERVICES

3/7/2023  
APPROVAL DATE



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Designed: DCD  
 Drawn: PNH  
 Checked: EJD  
 Miss Utility Transmittal #:  
 \_\_\_\_\_  
 Filename: 010073-D-STRM.dwg  
 Path: C:\NVA\_000\NVA1000001 Columbia Pike Multimodal\Production\Task  
 17 - Final Design of Columbia Pike Segments\Segment 01\17.1 - 100%  
 Design\PlanSheet  
 Plotted: September 22, 2022  
 Plotted by: Miguel.Tyshing

ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

STORM PROFILES  
 COLUMBIA PIKE - ROUTE 244  
 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
 SEGMENT D

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D11.3 of D11.8







# STORMWATER MANAGEMENT

TOTAL PROJECT AREA: 5.45 ACRES

EXISTING IMPERVIOUS AREA: 5.20 ACRES

PROPOSED IMPERVIOUS AREA: 5.02 ACRES

THIS PROJECT WAS FUNDED BEFORE 7/1/2012. IT HAS BEEN GRANDFATHERED, THEREFORE NOT SUBJECT TO ARLINGTON'S NEW STORMWATER MANAGEMENT ORDINANCE. IT SHOULD BE GRANTED AN EXEMPTION UNDER THE CHESAPEAKE BAY PRESERVATION ORDINANCE SECTION § 61-15(A). THIS EXEMPTION IS APPLICABLE TO PUBLIC LINEAR PROJECTS THAT CONSIST SOLELY OF TRANSPORTATION AND UTILITY-RELATED INFRASTRUCTURE.

THIS PROJECT MEETS THE THREE EXEMPTION CONDITIONS IN THE CODE OF VIRGINIA FOR LINEAR DEVELOPMENT PROJECTS.

- THERE WILL BE LESS THAN 1 ACRE DISTURBED PER OUTFALL, WITH EACH OUTFALL BEING DEFINED AS A COLLECTION POINT FOR SURFACE RUNOFF.
- THERE WILL BE A DECREASE IN PEAK FLOW RATES. THE EXISTING HYDRAULIC CHARACTERISTICS AND OUTFALLS REMAIN THE SAME IN THE PROPOSED CONDITIONS, WITH IMPROVEMENTS TO THE ROADWAY DRAINAGE NETWORK. THE IMPERVIOUS AREA DECREASES 3% IN THE PROPOSED CONDITIONS, WHICH DOES NOT REDUCE THE PEAK FLOW RATE AND IS ADEQUATE FOR THE STORMWATER NETWORK AS DEMONSTRATED IN THE STORMWATER CALCULATIONS.
- THERE ARE NO EXISTING OR ANTICIPATED FLOODING OR EROSION PROBLEMS DOWNSTREAM OF THE DISCHARGE POINT. THE PROPOSED STORMWATER NETWORK DISCHARGES INTO THE EXISTING SYSTEM. THE STORMWATER PIPE AND HYDRAULIC GRADE LINE CALCULATIONS DEMONSTRATE THAT THE EXISTING SYSTEM IS ADEQUATE DOWNSTREAM OF THE DISCHARGE POINT.

Arlington, Virginia

FY2009 – FY2014 CIP

## COMPLETE ARLINGTON STREETS

### Program Description

In November, 2007, the County Board adopted the Master Transportation Plan (MTP) Goals and Policies document and MTP map. One of the three general policies that form the plan's foundation is to "support the design and operation of complete streets." This CIP category, formed primarily, but not exclusively, from the former Arterials category, focuses on multimodal projects integrated with adjacent community uses. Projects in this program range from intersection or interchange improvements, to new street links, to major corridor reconstruction. Although the focus is on major streets, in commercial and mixed-use areas, neighborhood street improvements are included in this category.

### Master Plan Impact

Master Transportation Plan, Pedestrian Master Plan, Bicycle Master Plan, Transit Master Plan, Underground Utilities Guidelines

### Bond Financing Notes

Costs shown are based on current costs. Future costs are subject to market variables that can either increase or decrease the costs shown. Bond maturity is assumed to be 20 years. The costs shown also reflect the costs as if the full approved bond was sold in the first year following approval by the voters, which may or may not be the case for any particular program.

### 6 YEAR PROGRAMMED SUMMARY (in \$1,000s)

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	6 Year Total
Columbia Pike Complete Streets	1,000	2,000					3,000
Pentagon City/Hayes Street Corridor Improvements			1,000				1,000
Rosslyn Area Multimodal Improvements							-
Crystal City Street Improvements		500					500
Balston-Rosslyn Arterial Street Improvements		2,000	500				2,500
Improvements to Major Travel Corridors Outside Principal Business Districts		2,300					2,300
Wayfinding Signage		800	300				1,100
Transportation Systems and Traffic Signals		2,150	2,050				4,200
<b>Total Recommendation</b>	<b>8,250</b>	<b>6,350</b>					<b>15,350</b>

Footnote: Due to the fluid nature of federal and state Transportation funding, programs and projects will be subject to annual allocation of funds by the County Board. The allocations will maximize the use of available resources and enable the Transportation Investment Fund to flexibly respond to current conditions.

### PROGRAM FUNDING SOURCES (in \$1,000s)

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	6 Year Total
Revenue from the Commonwealth	750	750					1,500
Developer Contribution							-
Other Funding							-
Transportation Investment Fund	6,900	5,600					12,500
Commonwealth Loan Funds							-
Master Lease							-
PAYG	600						600
Bond Issue							-
<b>Total Funding Sources</b>	<b>8,250</b>	<b>6,350</b>					<b>15,350</b>

### BOND FINANCING IMPACT (in \$1,000s)

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14
Bond Financing Cost (P&I)	0	0	0	0	0	0

# STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

## 2.0 Authorized Non-Stormwater Discharges

Type of Authorized Non-Stormwater Discharge	Likely Present at Your Project Site?	
External buildings wash down	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Uncontaminated foundation or footing drains	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Uncontaminated excavation dewatering	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Landscape irrigation	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Others	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

## STORMWATER POLLUTION PREVENTION PLAN COLUMBIA PIKE MULTIMODAL STREET IMPROVEMENTS - SEGMENT D

### 5.0 Potential Sources of Pollution & Pollution Prevention Practices

Pollutant-Generating Activity	Likely Present at your Project Site?	Pollutants										Pollution Prevention Practice	Responsible Party	
		Sediment	Nutrients	Heavy Metals	pH (acids and bases)	Pesticides & Herbicides	Oil & Grease	Bacteria & Viruses	Trash, Debris, Solids	Other Toxic Chemicals				
Clearing, grading, excavating, and un-stabilized areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X										X	(1)	Construction Activity Operator (See Cover Page of this SWPPP)
Paving operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X					X				X	(2)		
Concrete washout and cement waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X						X	(3)		
Structure construction, stucco, painting, and cleaning	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			X	X						X	(4)		
Dewatering operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X								X	(5)		
Material delivery and storage	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X	X	X		X		X	X	X	(6)		
Material use during building process	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X	X	X		X		X	X	X	(7)		
Solid waste disposal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								X	X		(8)		
Sanitary waste	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		X	X					X			(9)		
Landscaping operations	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	X	X			X			X	X		(10)		
Others	<input type="checkbox"/> Yes <input type="checkbox"/> No											(11)		

Arlington County - SWPPP 7/2014

## 7.0 Spill Prevention & Response

Most spills can be cleaned up following manufacturer specifications. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at this location.

- 1<sup>st</sup> Priority: Protect all people
- 2<sup>nd</sup> Priority: Protect equipment and property
- 3<sup>rd</sup> Priority: Protect the environment

- Check for hazards (flammable material, noxious fumes, cause of spill) – if flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave the area and call 911. **LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.**
- Make Sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
- Stop the spill source.
- Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers.
- If possible, stop spill from entering drains (use absorbent or other material as necessary).
- Stop spill from spreading (use absorbent or other material).
- If spilled material has entered a storm sewer, contact locality's storm water department.
- Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water.
- Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.

### Emergency Contacts:

#### Normal Working Hours

DEQ Northern Regional Office 703-583-3800

#### Nights, Holidays & Weekends

VA Dept. of Emergency Management 804-674-2400  
24 Hour Reporting Service

#### Local Contacts

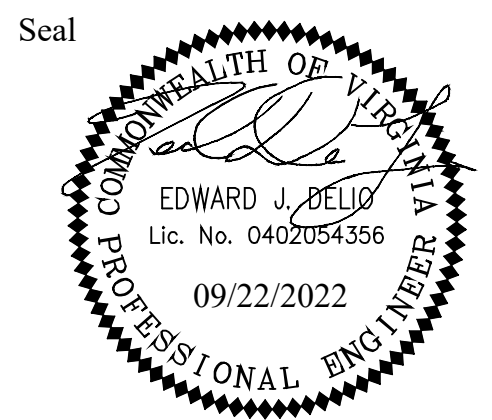
Arlington County Fire & Police 703-558-2222  
DES Water, Sewer, Streets 24-Hour Emergency 703-228-6555  
Washington Gas Emergency 703-750-1400



DEPARTMENT OF ENVIRONMENTAL SERVICES

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Approvals \_\_\_\_\_ Date \_\_\_\_\_

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Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

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Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: PNH  
Drawn: PNH  
Checked: DCD  
Miss Utility Transmittal #:

Filename: 010073-D-STRM-CALCS.dwg  
Path: C:\Users\PNH\Documents\010073-D-STRM-CALCS.dwg  
Plotted: September 22, 2022  
Plotted by: Miguel Tyshing

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

STORMWATER MANAGEMENT  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT D

SCALE: SHEET: D11.7 of D11.8

# REGISTRATION STATEMENT

**VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY  
GENERAL VPDES PERMIT FOR DISCHARGES OF STORMWATER FROM  
CONSTRUCTION ACTIVITIES (VAR10)  
REGISTRATION STATEMENT 2019**

PERMIT #: \_\_\_\_\_  
 PLAN/ID #: \_\_\_\_\_  
 TECHNICAL CRITERIA: IIB  IIC

Application type.  **NEW PERMIT ISSUANCE**  
 (CHOOSE ONE)  **MODIFICATION WITH ACREAGE INCREASE**  
 **MODIFICATION WITHOUT ACREAGE INCREASE**  
 **EXISTING PERMIT RE-ISSUANCE**

**Section I. Operator/Permittee Information.**

**A. Construction Activity Operator (Permittee).** The person or entity that is applying for permit coverage and will have operational control over construction activities to ensure compliance with the general permit. A person with signatory authority for this operator must sign the certification in Section VI. (per Part III. K. of the VAR10 Permit).

Operator Name: Kimley-Horn and Associates  
 Contact person: Ted DeLo  
 Address: 11400 Commerce Park Dr. Suite 400  
 City, State Zip Code: Reston, VA 20191  
 Phone Number: 703-674-1358  
 Primary Email: ted.delo@kimley-horn.com  
 CC Email: \_\_\_\_\_

**B. Billing Information** (leave blank if same as the Operator identified in Section I. A. above). This entity will receive Annual Permit Maintenance and Permit Modification Fee invoices (if applicable).

Name: \_\_\_\_\_  
 Contact Person: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, State Zip Code: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_  
 Primary Email: \_\_\_\_\_  
 CC Email: \_\_\_\_\_

**C. May we transmit correspondence electronically?** You must choose **YES** and include a valid email in order to pay by credit card and to receive your permit coverage approval letter via email: **YES**  **NO**

**Section II. Construction Activity Location Information.** Project site information.

**A. Include a site map showing the location of the existing or proposed land-disturbing activities, the limits of land disturbance, construction entrances and all water bodies receiving stormwater discharges from the site.**

**B. Construction Activity Name:** Columbia Pike Multimodal Street Improvements - Segment D  
 Address: Columbia Pike, South Courthouse Road to South Garfield Street  
 City and/or County and Zip Code: Arlington, VA 22204  
 Latitude and Longitude (6-digit, decimal degrees format): 38.866768, -77.070884

**C. Construction Activity Entrance Location** (description, street address and/or latitude/longitude in decimal degrees): 38.866768, -77.070884

**CONSTRUCTION GENERAL PERMIT (VAR10) REGISTRATION STATEMENT 2019**

**Section III. Offsite Support Activity Location Information.** List all offsite support activities to be included under this permit registration. Enter additional areas on a separate page. Offsite areas not included on this registration will need to obtain coverage under a separate VPDES permit.

**A. Offsite Activity Name:** \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City and/or County and Zip Code: \_\_\_\_\_  
 Latitude and Longitude (6-digit, decimal degrees format): \_\_\_\_\_  
**B. Offsite Activity Entrance Location** (description, street address and/or latitude/longitude in decimal degrees): \_\_\_\_\_

**Section IV. Site Information.**

**A. Property Owner Status:** FEDERAL  STATE  PUBLIC  PRIVATE   
**B. Nature of the Construction Activity Description** (i.e. commercial, industrial, residential, agricultural, environmental): Transportation infrastructure construction  
**C. Municipal Separate Storm Sewer System (MS4)** name(s) (if the site is discharging to a MS4): Arlington County

D. Acreage totals for all land-disturbing activities to be included under this permit coverage. Report to the nearest one-hundredth of an acre.	E. Estimated Project Dates (MM/DD/YYYY)
Total land area of development (including the entire area to be disturbed as approved in the Stormwater Management Plan): <u>5.45 acres</u>	Start date: _____
Primary estimated area to be disturbed (portions with Erosion and Sediment Control Plan approval only): <u>5.45 acres</u>	Completion date: _____
Offsite estimated area to be disturbed (if applicable): <u>N/A</u>	

**F. Is this construction activity part of a common plan of development or sale?** YES  NO

**G. 6<sup>th</sup> Order Hydrologic Unit Code (HUC) and Receiving Water Name(s).** Attach a separate list if needed.

HUC	RECEIVING WATERBODY(S)
<u>020700100103 PL24</u>	<u>Potomac River - Pimmit Run</u>

**Section V. Other Information.**

**A.** A stormwater pollution prevention plan (SWPPP) must be prepared in accordance with the requirements of the General VPDES Permit for Discharges of Stormwater from Construction Activities prior to submitting the Registration Statement. By signing the Registration Statement, the operator is certifying that the SWPPP has been prepared.  
**B.** Has an Erosion and Sediment Control Plan been submitted to the VESC Authority for review? YES  NO   
 Erosion and Sediment Control Plan Approval Date (if estimated area to be disturbed): \_\_\_\_\_  
**C.** Has land disturbance has commenced? YES  NO   
**D.** Annual Standards and Specifications. If this project is utilizing approved Annual Standards and Specifications (AS&S), attach the completed AS&S Entity Form.  
 AS&S Entity Name (if different from the Operator identified in Section II. A.): \_\_\_\_\_

**CONSTRUCTION GENERAL PERMIT (VAR10) REGISTRATION STATEMENT 2019**

**Section VI. Certification.** A person representing the operator as identified in Section I. A. and meeting the requirements of 9VAC25-880-70. Part III. K must physically sign this certification. A typed signature is not acceptable. Please note that operator is defined in 9VAC25-870-10 as follows:

*"Operator" means the owner or operator of any facility or activity subject to the Act and this chapter. In the context of stormwater associated with a large or small construction activity, operator means any person associated with a construction project that meets either of the following two criteria: (i) the person has direct operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications or (ii) the person has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other state permit or VSMP authority permit conditions (i.e., they are authorized to direct workers at a site to carry out activities required by the stormwater pollution prevention plan or comply with other permit conditions). In the context of stormwater discharges from Municipal Separate Storm Sewer Systems (MS4s), operator means the operator of the regulated MS4 system.*

9VAC25-880-70. Part III. K. Signatory Requirements. Registration Statement. All Registration Statements shall be signed as follows:  
**a.** For a corporation: by a responsible corporate officer. For the purpose of this chapter, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for state permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;  
**b.** For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or  
**c.** For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this chapter, a principal executive officer of a public agency includes: (i) the chief executive officer of the agency or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

Certification: "I certify under penalty of law that I have read and understand this Registration Statement and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Printed Name: Ted DeLo

Signature (signed in ink): \_\_\_\_\_

Date Signed: \_\_\_\_\_

**Section VII. Submittal Instructions.** Submit this form to the VSMP Authority. If the locality is the VSMP Authority, please send your Registration Statement submittal directly to the locality; do NOT send this form to DEQ. A list of local VSMP Authorities is available here: [VSMP Authorities](#).

If DEQ is the VSMP Authority, please send to: \_\_\_\_\_

**Department of Environmental Quality  
 Office of Stormwater Management Suite 1400  
 PO Box 1105  
 Richmond VA 23218  
[construction@deq.virginia.gov](mailto:construction@deq.virginia.gov)**

If the locality is the VSMP Authority, please send to:

**The Local VSMP Authority (insert address below)**  
 Department of Environmental Services  
 Development Services Bureau  
 2100 Clarendon Blvd., Suite 800  
 Arlington, VA 22201

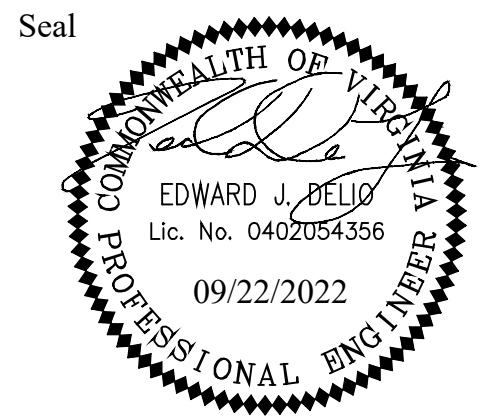
NOTE: ARLINGTON COUNTY WILL COMPLETE AND SUBMIT THE REGISTRATION STATEMENT, AND WILL OBTAIN THE REQUIRED PERMIT(S) FROM DEQ. CONTRACTOR SHALL CONFIRM WITH THE COUNTY THAT THE REQUIRED PERMITS ARE IN PLACE PRIOR TO BEGINNING WORK.



DEPARTMENT OF ENVIRONMENTAL SERVICES

Facilities & Engineering Division  
 Engineering Bureau  
 2100 Clarendon Boulevard, Suite 813  
 Arlington, VA 22201  
 Phone: 703.228.3629  
 Fax: 703.228.3606

**Kimley-Horn  
 Kimley-Horn  
 and Associates, Inc.**  
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
 11400 Commerce Park Drive, Suite 400  
 Reston, Virginia 20191  
 Phone: 703-674-1350  
 Fax: 703-674-1350



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: PNH  
 Drawn: PNH  
 Checked: DCD  
 Miss Utility Transmittal #: \_\_\_\_\_

Filename: 010073-D-STRM-CALCS.dwg  
 Path: C:\NVA\_2020\11001051 Columbia Pike Multimodal Production  
 11.7.1 Final Design of Columbia Pike Segment A.dwg  
 Design: PNH  
 Plotted: September 22, 2022  
 Plotted by: Miguel Tyshing

ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

STORMWATER MANAGEMENT  
 COLUMBIA PIKE - ROUTE 244  
 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
 SEGMENT D

SCALE: \_\_\_\_\_ SHEET: D11.7.1 of D11.8



# STORMWATER MANAGEMENT RUNOFF REDUCTION INFORMATION

THE RUNOFF REDUCTION SPREADSHEET INFORMATION ON THIS PLAN IS FOR DATA TRACKING PURPOSES TO DOCUMENT THE AREA OF LAND DISTURBANCE AND TO CHARACTERIZE PRE- AND POST-DEVELOPMENT LAND USE CONDITIONS.

IN ACCORDANCE WITH ARLINGTON COUNTY'S CHESAPEAKE BAY TOTAL MAXIMUM DAILY LOAD (TMDL) ACTION PLAN, APPROVED BY THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) ON SEPTEMBER 1, 2015, LINEAR DEVELOPMENT PROJECTS CONDUCTED BY THE COUNTY ARE ADMINISTERED AND TRACKED AS FOLLOWS CONSISTENT WITH 9VAC25-870-69.A.4, 9VAC25-870-76, AND 9VAC25-870-92:

- POLLUTANT LOAD CHANGES WILL BE COMPUTED AS DESCRIBED IN SECTION 3.A OF THE ACTION PLAN.
- RETROFIT OPPORTUNITIES WILL BE EVALUATED FOR EACH PROJECT, USING THE SCREENING AND SELECTION CRITERIA APPLIED AND DESCRIBED IN THE ADOPTED STORMWATER MASTER PLAN.
- RETROFIT PROJECTS THAT MEET THE SCREENING CRITERIA AND ARE DETERMINED BY ARLINGTON TO BE FEASIBLE AND COST-EFFECTIVE WILL BE IMPLEMENTED WITH SPECIFIC LINEAR DEVELOPMENT PROJECTS. POLLUTANT LOAD REDUCTIONS FROM RETROFIT PROJECTS WILL BE COMPUTED AS DESCRIBED IN SECTION 5 OF THE ACTION PLAN.
- IN CASES WHERE RETROFIT PROJECTS ARE NOT FEASIBLE AND COST-EFFECTIVE FOR A PARTICULAR LINEAR PROJECT, ANY POLLUTANT OF CONCERN (POC) LOAD INCREASES THAT MIGHT OCCUR FOR THAT PROJECT WILL BE ADDRESSED BY LARGER OVERALL POC LOAD REDUCTIONS IN PLACE OR ADDED THROUGH TMDL ACTION PLAN IMPLEMENTATION.

IN THE ABOVE MANNER ARLINGTON, AS THE MS4 OPERATOR AND THE CONSTRUCTION SITE OPERATOR FOR ITS LINEAR DEVELOPMENT PROJECTS, IMPLEMENTS LINEAR PROJECTS AND RETROFIT PROJECTS IN A MANNER THAT ACHIEVES THE MOST TMDL POC REDUCTION FOR THE LEAST COST, WHILE FULLY ACCOUNTING FOR LOAD CHANGES THAT OCCUR WITH LINEAR DEVELOPMENT PROJECT ACTIVITY CONSISTENT WITH THE DEQ CHESAPEAKE BAY TMDL SPECIAL CONDITION GUIDANCE.

Project Name:	Columbia Pike Multimodal - Segment D				CLEAR ALL	data input cells
Date:	Apr-22					constant values
	Linear Development Project?	Yes				calculation cells
						final results

**Site Information**

Enter Total Disturbed Area (acres) → 5.45 Check: **BMP Design Specifications List: 2011 Stds & Specs**

Maximum reduction required:	20%	Linear project?	No
The site's net increase in impervious cover (acres) is:	0	Land cover areas entered correctly?	✓
Post-Development TP Load Reduction for Site (lb/yr):	1.99	Total disturbed area entered?	✓

**Pre-Development Land Cover (acres)**

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) – undisturbed, protected forest/open space or reforested land	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres) – disturbed, graded for yards or other turf to be mowed/managed	0.00	0.00	0.00	0.25	0.25
Impervious Cover (acres)	0.00	0.00	0.00	5.20	5.20
<b>Totals</b>					<b>5.45</b>

**Post-Development Land Cover (acres)**

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) – undisturbed, protected forest/open space or reforested land	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres) – disturbed, graded for yards or other turf to be mowed/managed	0.00	0.00	0.00	0.43	0.43
Impervious Cover (acres)	0.00	0.00	0.00	5.02	5.02
<b>Area Check</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>	<b>5.45</b>

**Constants**

Annual Rainfall (inches)	43	<b>Runoff Coefficients (Rv)</b>			
Target Rainfall Event (inches)	1.00	A Soils	B Soils	C Soils	D Soils
Total Phosphorus (TP) EMC (mg/L)	0.26	Forest/Open Space	0.02	0.04	0.05
Total Nitrogen (TN) EMC (mg/L)	1.86	Managed Turf	0.15	0.20	0.25
Target TP Load (lb/acre/yr)	0.41	Impervious Cover	0.95	0.95	0.95
Pj (unitless correction factor)	0.90				

LAND COVER SUMMARY -- PRE-REDEVELOPMENT			LAND COVER SUMMARY -- POST DEVELOPMENT			
Land Cover Summary-Pre			Land Cover Summary-Post (Final)		Land Cover Summary-Post	
Pre-Development	Listed	Adjusted <sup>1</sup>	Post ReDev. & New Impervious	Post-Development	Post-Development	Post-Development New Impervious
Forest/Open Space Cover (acres)	0.00	0.00	Forest/Open Space Cover (acres)	0.00	Forest/Open Space Cover (acres)	0.00
Weighted Rv(forest)	0.00	0.00	Weighted Rv(forest)	0.00	Weighted Rv(forest)	0.00
% Forest	0%	0%	% Forest	0%	% Forest	0%
Managed Turf Cover (acres)	0.25	0.25	Managed Turf Cover (acres)	0.43	Managed Turf Cover (acres)	0.43
Weighted Rv(turf)	0.25	0.25	Weighted Rv (turf)	0.25	Weighted Rv (turf)	0.25
% Managed Turf	5%	5%	% Managed Turf	8%	% Managed Turf	8%
Impervious Cover (acres)	5.20	5.20	Impervious Cover (acres)	5.02	ReDev. Impervious Cover (acres)	5.02
Rv(impervious)	0.95	0.95	Rv(impervious)	0.95	Rv(impervious)	0.95
% Impervious	95%	95%	% Impervious	92%	% Impervious	92%
<b>Total Site Area (acres)</b>	<b>5.45</b>	<b>5.45</b>	<b>Final Site Area (acres)</b>	<b>5.45</b>	<b>Total ReDev. Site Area (acres)</b>	<b>5.45</b>
<b>Site Rv</b>	<b>0.92</b>	<b>0.92</b>	<b>Final Post Dev Site Rv</b>	<b>0.89</b>	<b>ReDev Site Rv</b>	<b>0.89</b>

Treatment Volume and Nutrient Load			Treatment Volume and Nutrient Load			
Pre-Development	Listed	Adjusted <sup>1</sup>	Final Post-Development	Post-Development	Post-Development	Post-Development
Pre-Development Treatment Volume (acre-ft)	0.4169	0.4169	Final Post-Development Treatment Volume (acre-ft)	0.4064	Post-Development Treatment Volume (acre-ft)	0.4064
Pre-Development Treatment Volume (cubic feet)	18,159	18,159	Final Post-Development Treatment Volume (cubic feet)	17,702	Post-Development Treatment Volume (cubic feet)	17,702
Pre-Development TP Load (lb/yr)	11.41	11.41	Final Post-Development TP Load (lb/yr)	11.12	Post-Development TP Load (lb/yr)*	11.12
Pre-Development TP Load per acre (lb/acre/yr)	2.09	2.09	Final Post-Development TP Load per acre (lb/acre/yr)	2.04	Post-Development TP Load per acre (lb/acre/yr)	2.04
Baseline TP Load (lb/yr) (0.41 lbs/acre/yr applied to pre-redevelopment area excluding pervious land proposed for new impervious cover)		2.23			Max. Reduction Required (Below Pre-Redevelopment Load)	20%
					TP Load Reduction Required for Redeveloped Area (lb/yr)	1.99
					TP Load Reduction Required for New Impervious Area (lb/yr)	0

<sup>1</sup> Adjusted Land Cover Summary: Pre-Development land cover minus pervious land cover (forest/open space or managed turf) acreage proposed for new impervious cover.

Adjusted total acreage is consistent with Post-Development acreage (minus acreage of new impervious cover).

Column 1 shows load reduction requirement for new impervious cover (based on new development load limit, 0.41 lbs/acre/year).

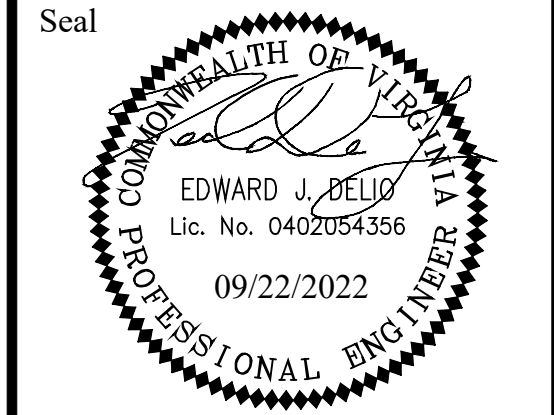
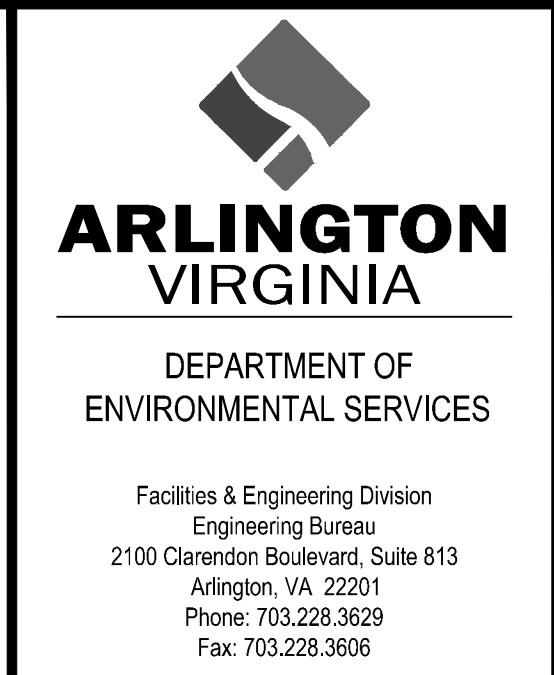
**Post-Development Requirement for Site Area**

TP Load Reduction Required (lb/yr)	1.99
Linear Project TP Load Reduction Required (lb/yr):	1.99

**Nitrogen Loads (Informational Purposes Only)**

Pre-Development TN Load (lb/yr)	81.62	Final Post-Development TN Load (Post-Development & New Impervious) (lb/yr)	79.56
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Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

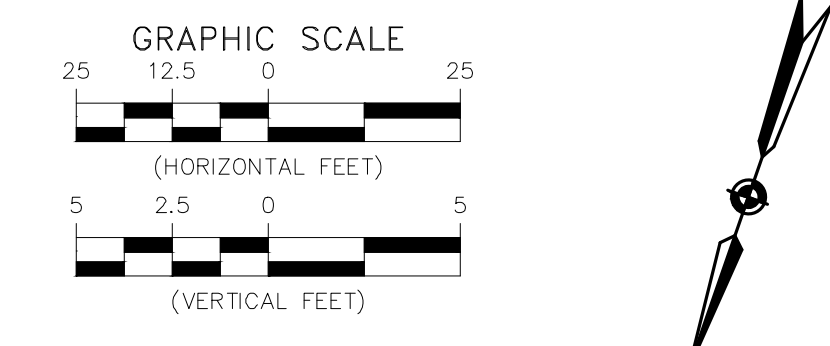
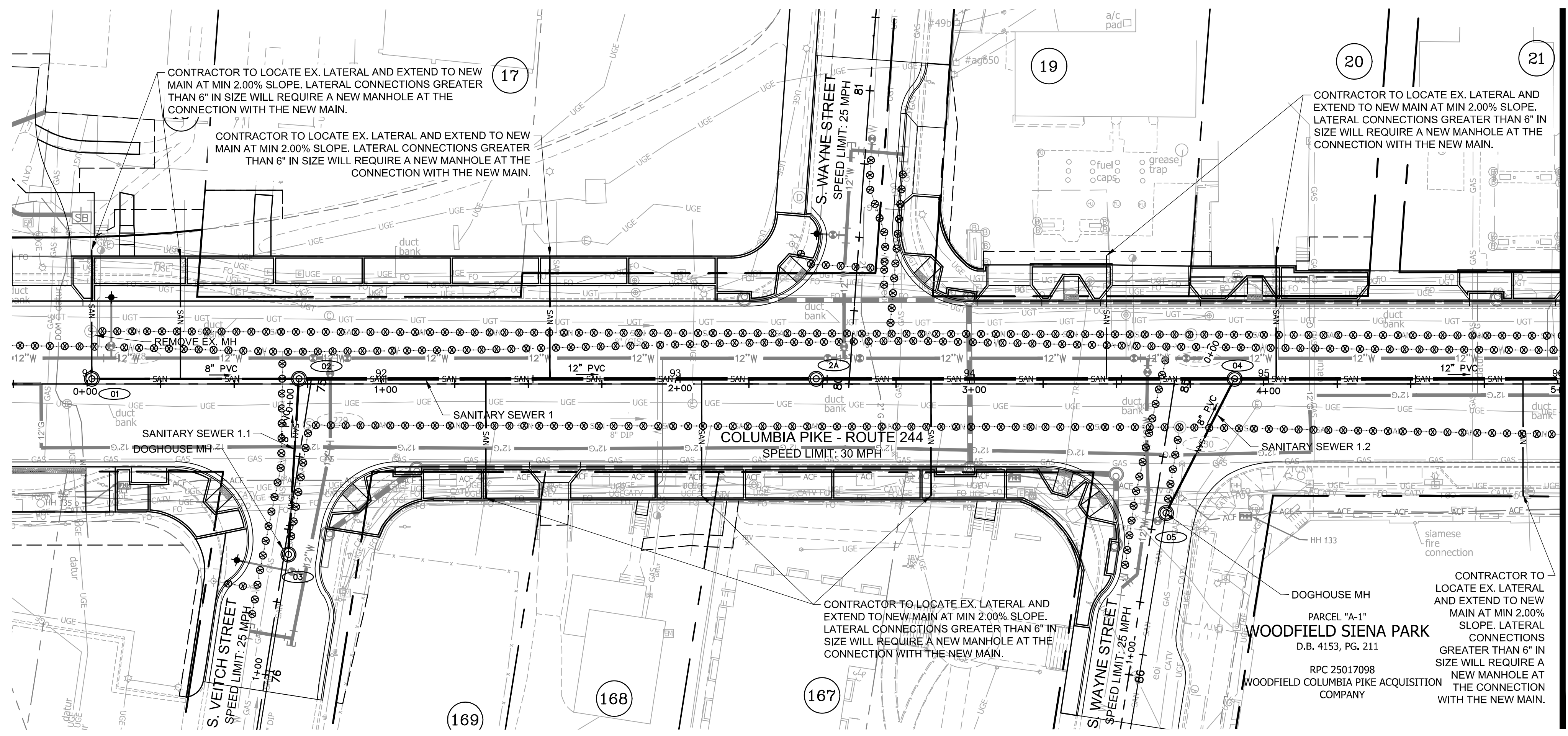
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Checked: DCD  
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1: 2: Final Design of Columbia Pike Segment D (17.5.2 - 100% Design)  
Plotted: September 22, 2022  
Plotted by: Miguel Tyshing

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

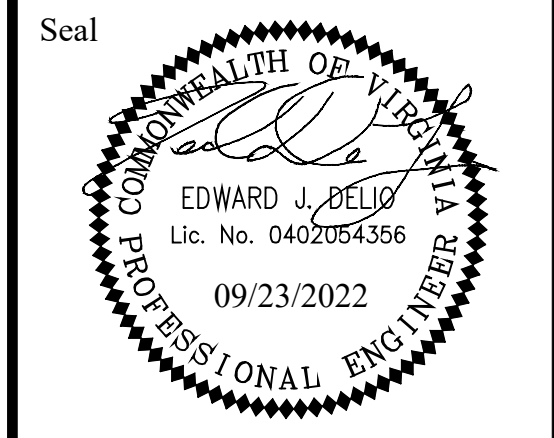
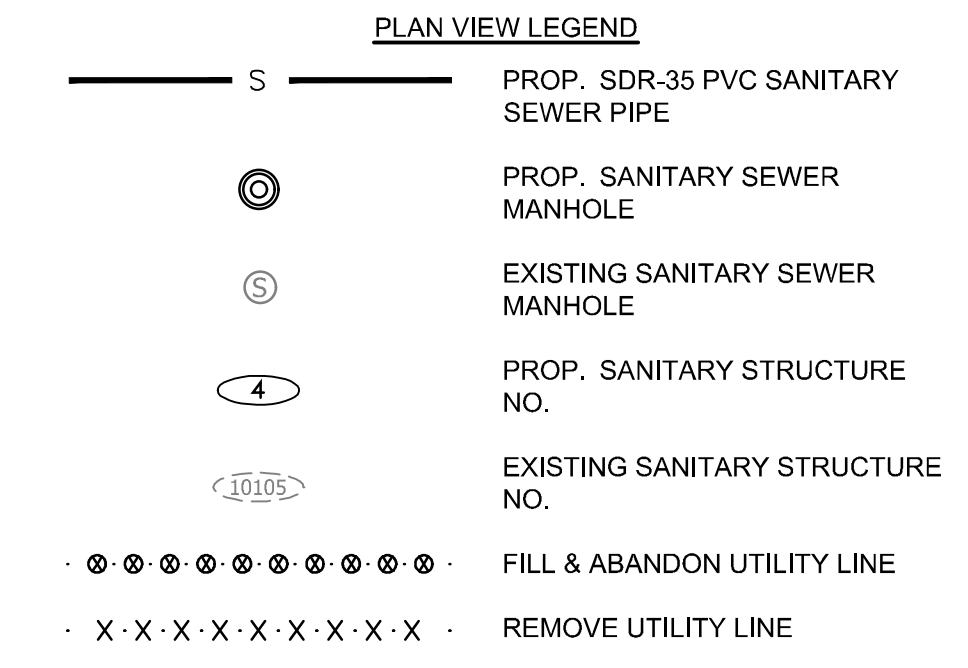
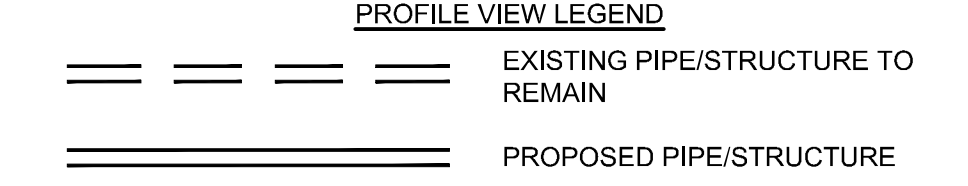
**STORMWATER MANAGEMENT  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT D**

SCALE: \_\_\_\_\_ SHEET: D11.8 of D11.8



**FOR SANITARY CONST. ONLY**

- NOTES:**
- PROFILE STATIONING ALONG CENTERLINE OF PIPE
  - SEE SERIES 10 FOR FULL UTILITY NETWORK PLAN VIEWS.
  - CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE PROJECT LIMITS TO THE EXTENT POSSIBLE AT ALL TIMES. STORM SEWER SHALL BE INSTALLED AND SEQUENCED TO MINIMIZE DOWN TIME REQUIRED FOR TIE-IN OR CUT-OVER OPERATIONS. SHOULD PUMP-AROUNDS BE REQUIRED TO COMPLETE STORM SEWER INSTALLATIONS, THEY WILL BE INCIDENTAL TO THE COST OF STORM PIPE AND STRUCTURE INSTALLATION.
  - CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES ADJACENT TO OR CROSSING PROPOSED STORM SEWER PIPE AND STRUCTURES PRIOR TO INSTALLATION.
  - OFFSET OF EXIST. FIBER LINE AND LIGHTING LINE MAY BE REQUIRED FOR PROPOSED IMPROVEMENTS. SEE DETAIL SHEET D2.1.
  - WHERE MINIMUM VERTICAL CLEARANCES BETWEEN UTILITIES CANNOT BE MET, CONTRACTOR TO INSTALL CONCRETE PIERS AND/OR REINFORCED CONCRETE CRADLE PER ARLINGTON COUNTY STANDARD DRAWING M-7.0.



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

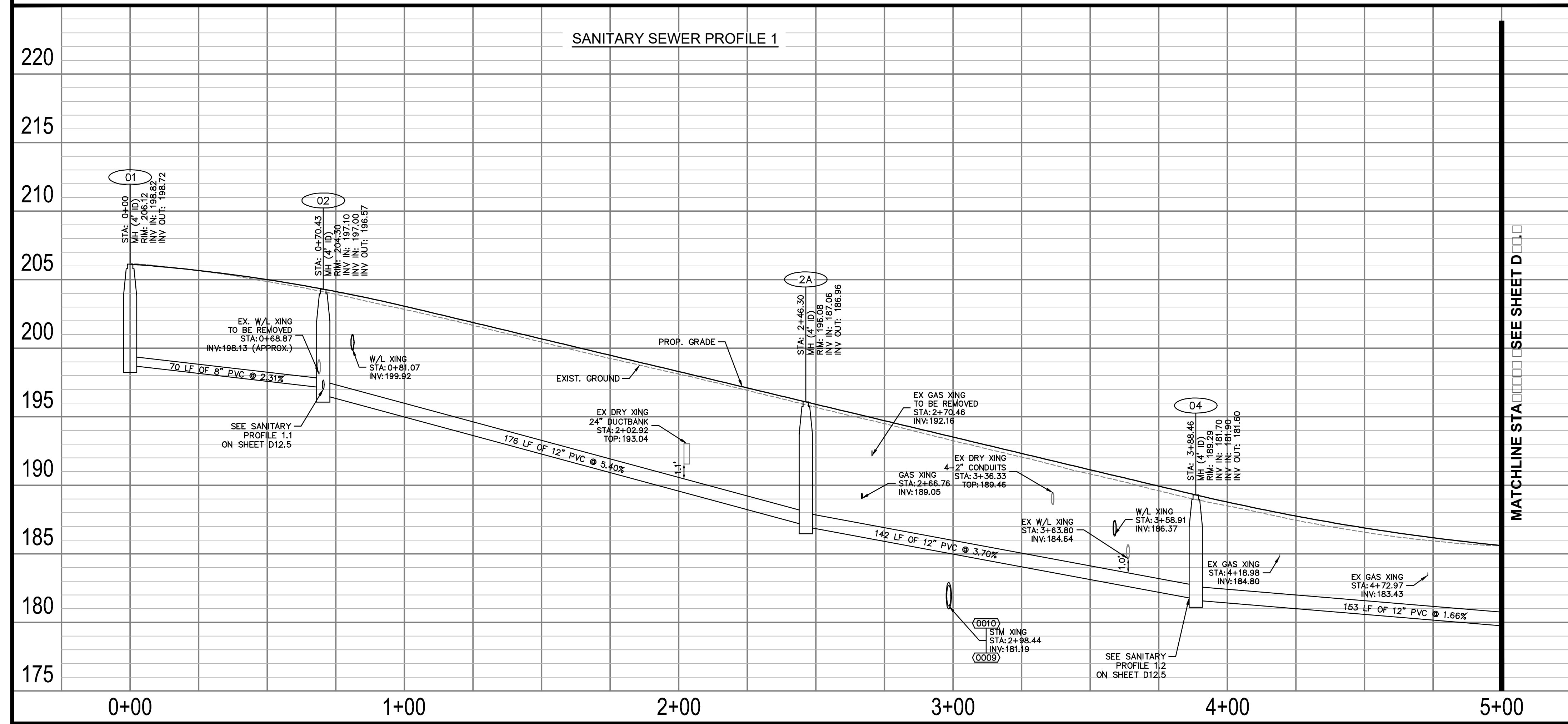
Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions	Date

Designed: MAT  
 Drawn: MAT  
 Checked: TEC  
 Miss Utility Transmittal #:

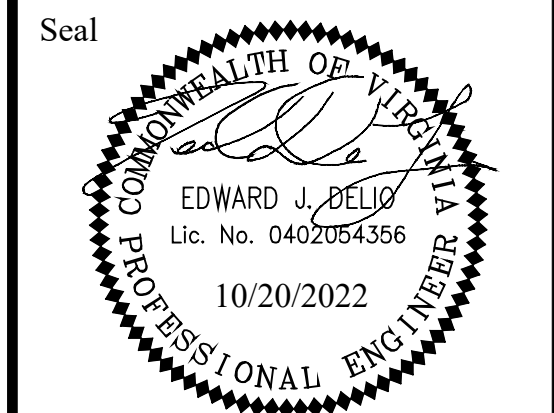
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 Plotted: September 23, 2022  
 Plotted by: Miguel.Tyshing



ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

**SANITARY PLAN AND PROFILES**  
**COLUMBIA PIKE - ROUTE 244**  
**COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS**  
**SEGMENT D**  
 STA. 90+75 TO STA. 96+00

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D12.1 of D12.5



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

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Designed: MAT

Drawn: MAT

Checked: TEC

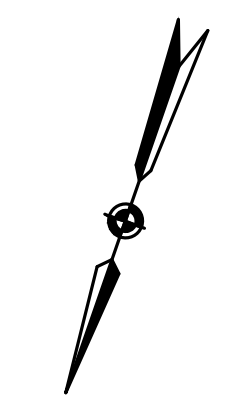
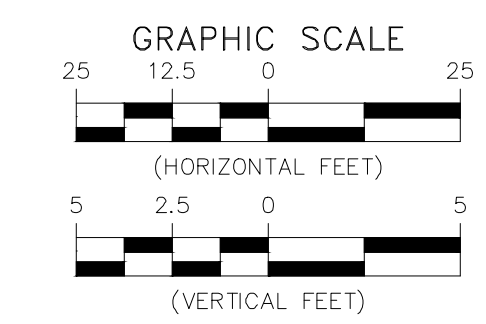
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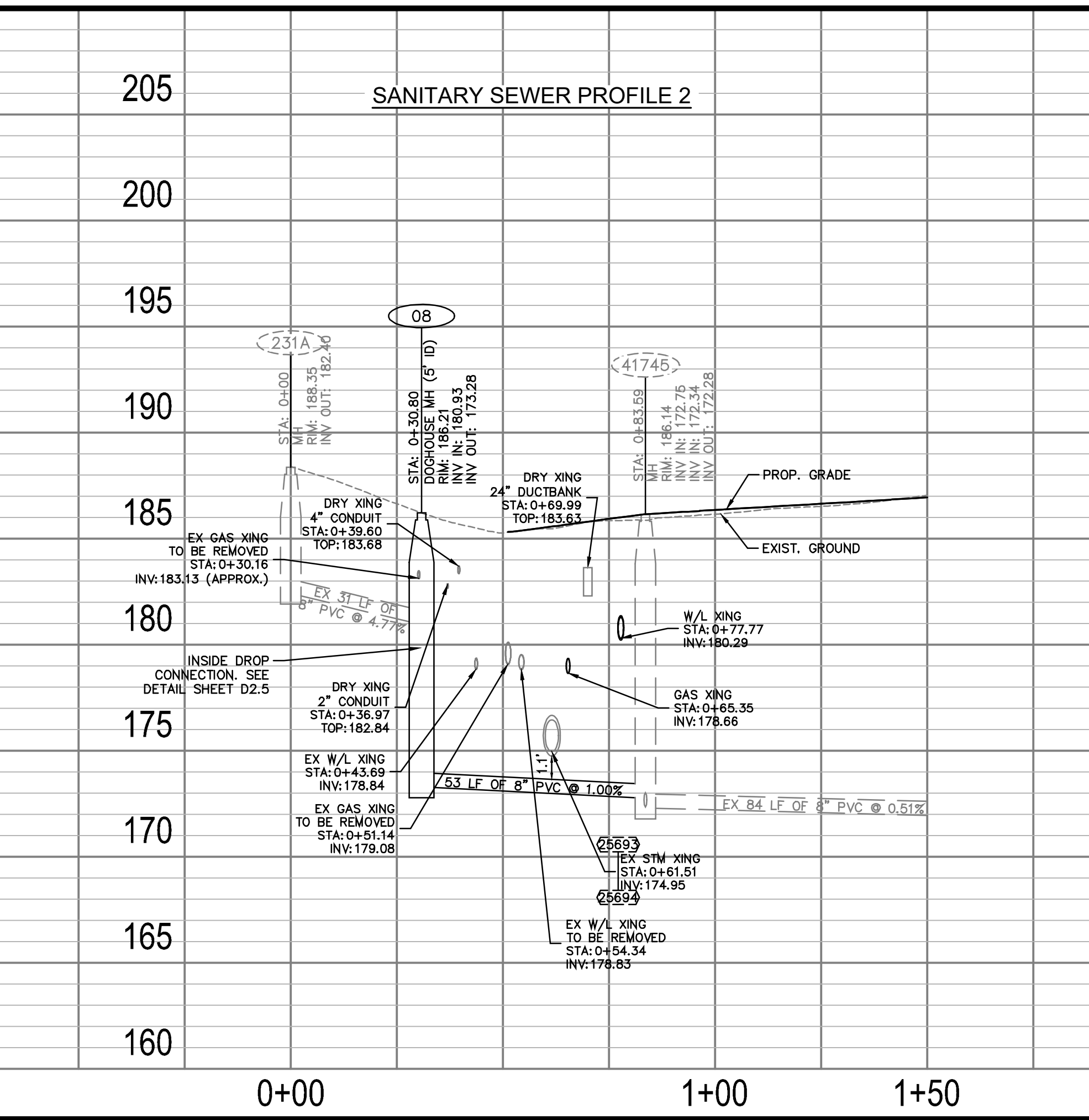
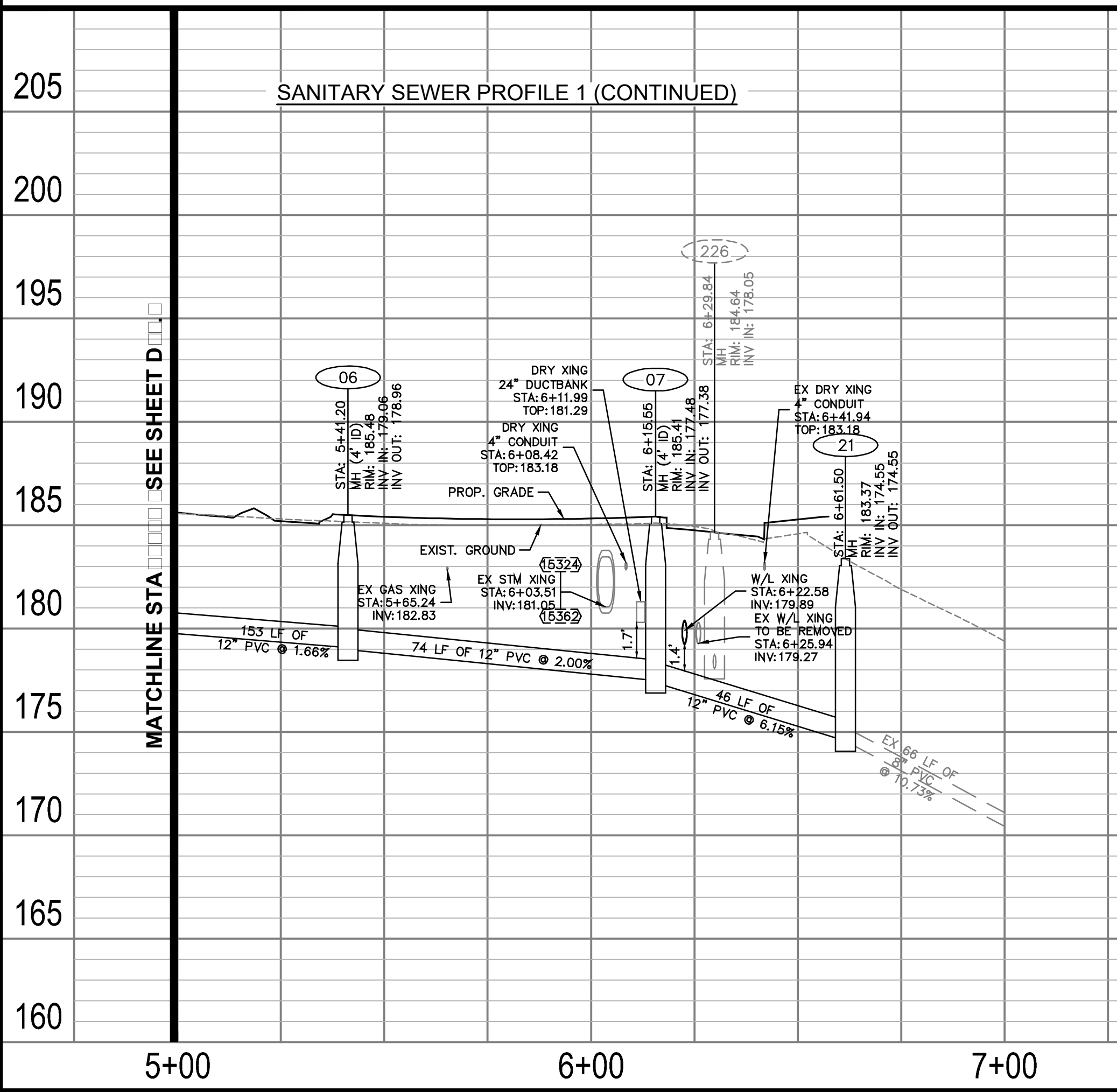
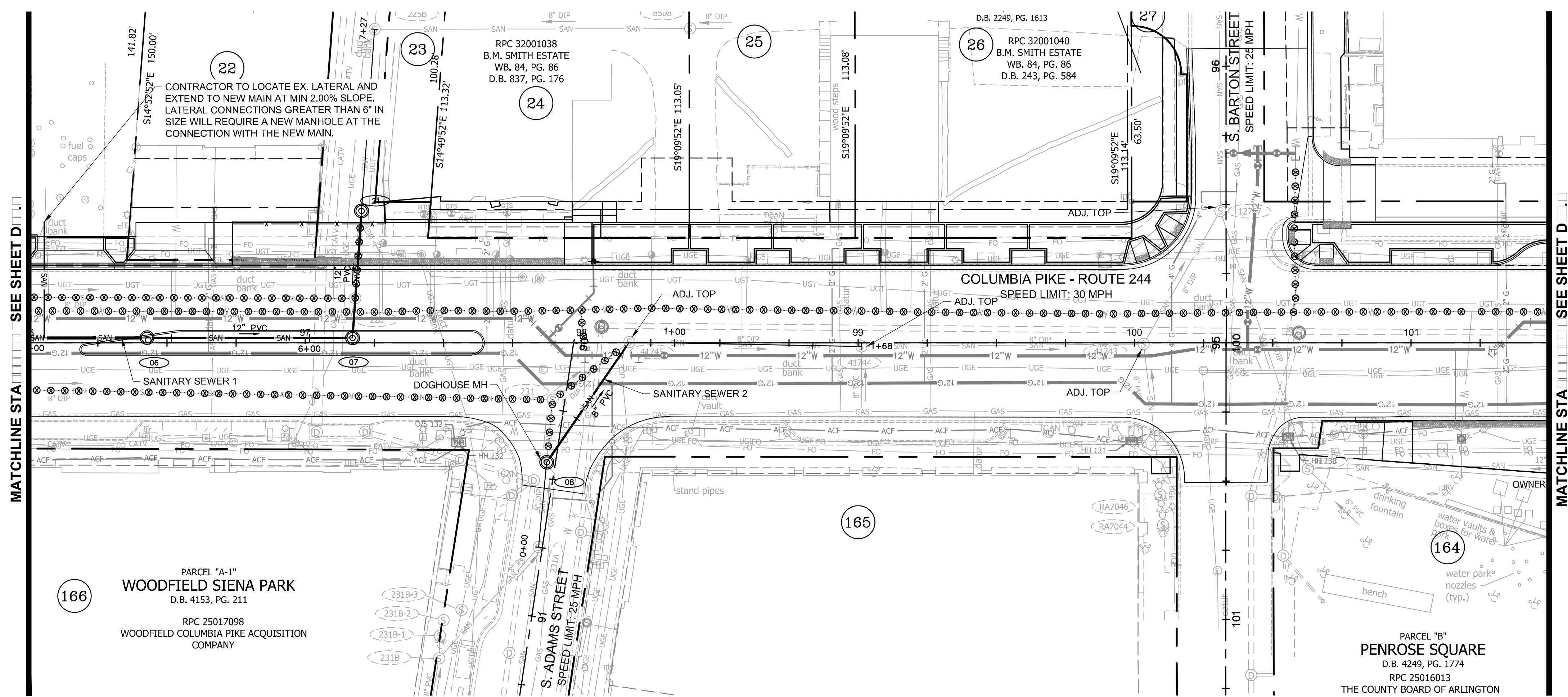
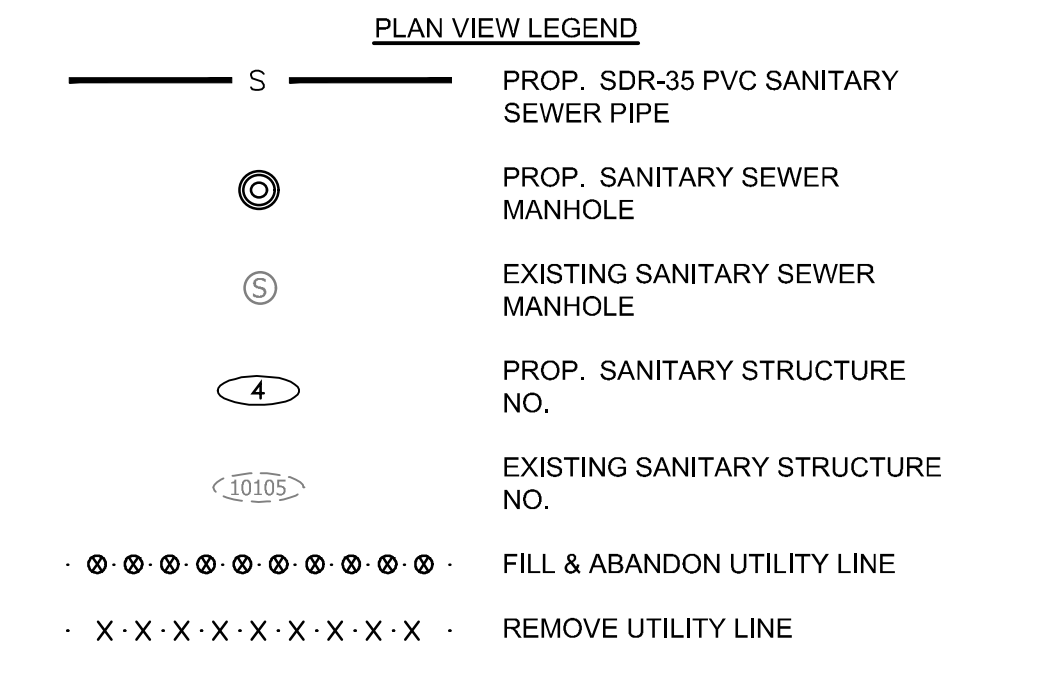
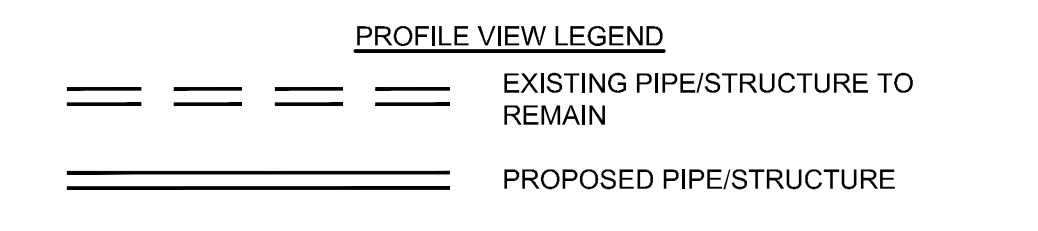
Plotted: October 20, 2022

Plotted by: Miguel.Tyshing



**FOR SANITARY CONST. ONLY**

- NOTES:**
1. PROFILE STATIONING ALONG CENTERLINE OF PIPE
  2. SEE SERIES 10 FOR FULL UTILITY NETWORK PLAN VIEWS.
  3. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE PROJECT LIMITS TO THE EXTENT POSSIBLE AT ALL TIMES. STORM SEWER SHALL BE INSTALLED AND SEQUENCED TO MINIMIZE DOWN TIME REQUIRED FOR TIE-IN OR CUT-OVER OPERATIONS. SHOULD PUMP-AROUNDS BE REQUIRED TO COMPLETE STORM SEWER INSTALLATIONS, THEY WILL BE INCIDENTAL TO THE COST OF STORM PIPE AND STRUCTURE INSTALLATION.
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ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

**SANITARY PLAN AND PROFILES  
 COLUMBIA PIKE - ROUTE 244  
 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
 SEGMENT D  
 STA. 96+00 TO STA. 101+50**

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D12.2 of D12.5

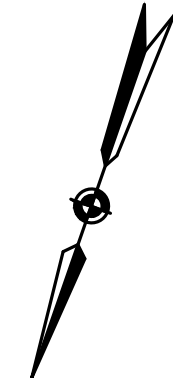
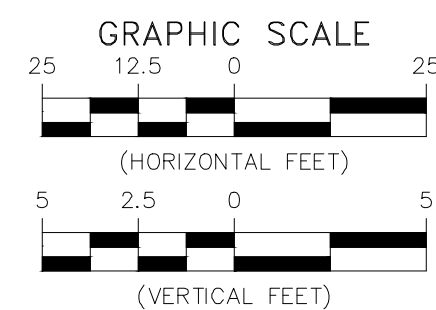
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ARLINGTON VILLAGE  
D.B. 1983, PG. 1448  
RPC 32002001  
ARLINGTON VILLAGE ASSOCIATES  
D.B. 2059, PG. 465

PART LOTS 1, 2 & 3  
BLOCK 1  
ARLINGTON HILLS  
D.B. 199, PG. 110  
RPC 32003007  
COL PIKE PARTNERS LLC  
D.B. 4816, PG. 996

PART LOT B  
FOX PROPERTY  
D.B. 375, PG. 419  
RPC 32003006  
FRANCIS FAMILY PROPERTIES, LLC  
D.B. 4043, PG. 2221

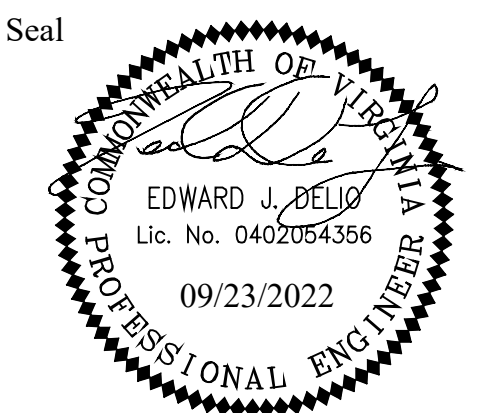
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ARLINGTON HILLS  
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RPC 32003005  
MCBAY ASSOCIATES, L.L.C.  
D.B. 3468, PG. 1320

UNNUMBERED LOT  
BLOCK 1  
ARLINGTON HILLS  
D.B. 199, PG. 110



**ARLINGTON VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL SERVICES  
Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
Fax: 703.228.3606

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11400 Commerce Park Drive, Suite 400  
Reston, Virginia 20191  
Phone: 703-471-1500  
Fax: 703-471-1500



**FOR SANITARY CONST. ONLY**

- NOTES:**
- PROFILE STATIONING ALONG CENTERLINE OF PIPE
  - SEE SERIES 10 FOR FULL UTILITY NETWORK PLAN VIEWS.
  - CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE PROJECT LIMITS TO THE EXTENT POSSIBLE AT ALL TIMES. STORM SEWER SHALL BE INSTALLED AND SEQUENCED TO MINIMIZE DOWN TIME REQUIRED FOR TIE-IN OR CUT-OVER OPERATIONS. SHOULD PUMP-AROUNDS BE REQUIRED TO COMPLETE STORM SEWER INSTALLATIONS, THEY WILL BE INCIDENTAL TO THE COST OF STORM PIPE AND STRUCTURE INSTALLATION.
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**PROFILE VIEW LEGEND**

- EXISTING PIPE/STRUCTURE TO REMAIN
- PROPOSED PIPE/STRUCTURE

**PLAN VIEW LEGEND**

- PROP. SDR-35 PVC SANITARY SEWER PIPE
- PROP. SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- PROP. SANITARY STRUCTURE NO.
- EXISTING SANITARY STRUCTURE NO.
- FILL & ABANDON UTILITY LINE
- REMOVE UTILITY LINE

**Approvals**

Design Team Engineer Supervisor	Date
Construction Management Supervisor	
Water, Sewer, Streets Bureau Chief	
Transportation Director	
Project Manager	

Revisions	Date

Designed: MAT  
Drawn: MAT  
Checked: TEC  
Miss Utility Transmittal #:

Filename: 010073-D-SSWR.dwg  
Path: ...  
Plotted: September 23, 2022  
Plotted by: Miguel Tyshing

ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

**SANITARY PLAN AND PROFILES  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT D  
STA. 101+50 TO STA. 107+00**

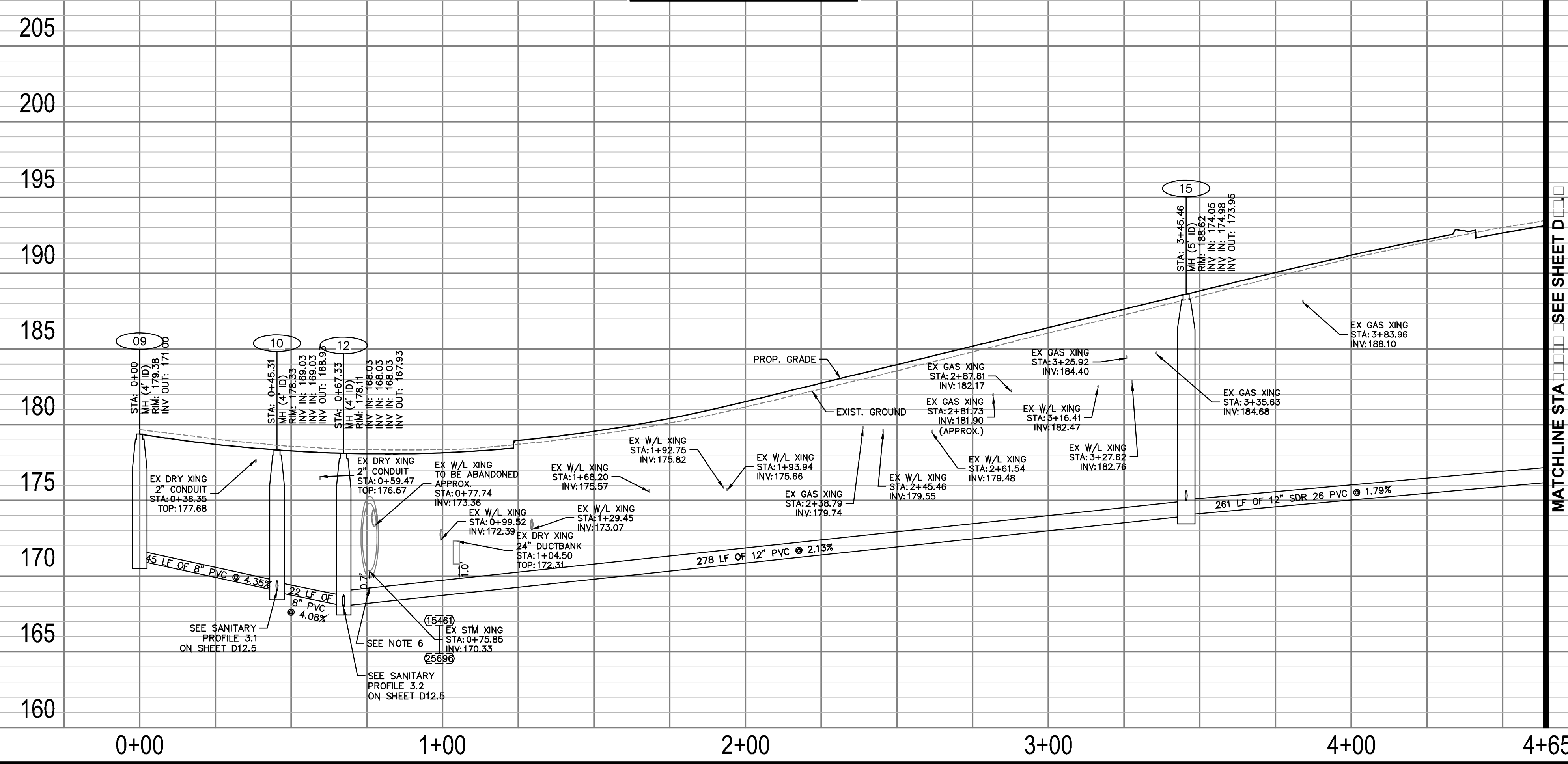
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SHEET: D12.3 of D12.5

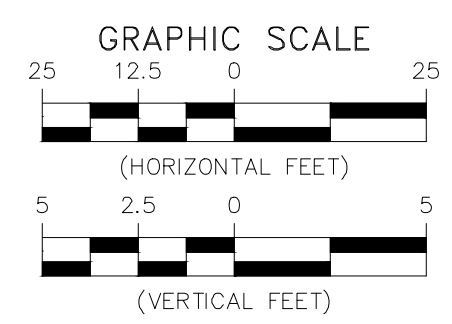
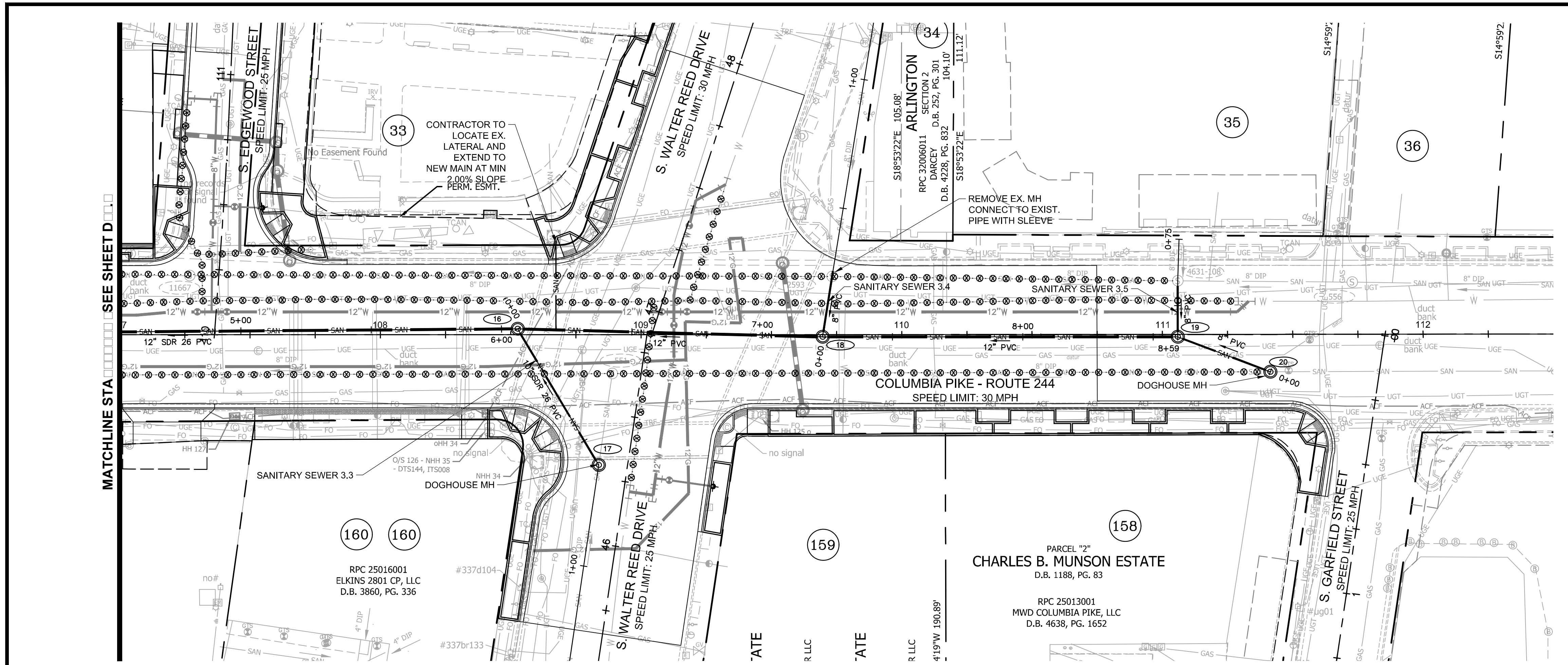
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MATCHLINE STA. SEE SHEET D

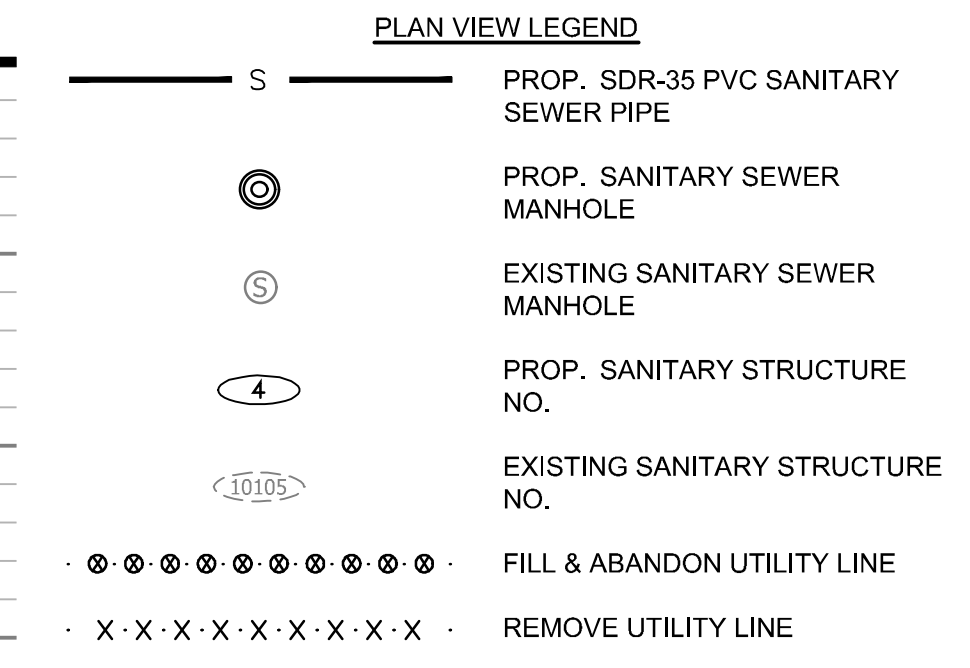
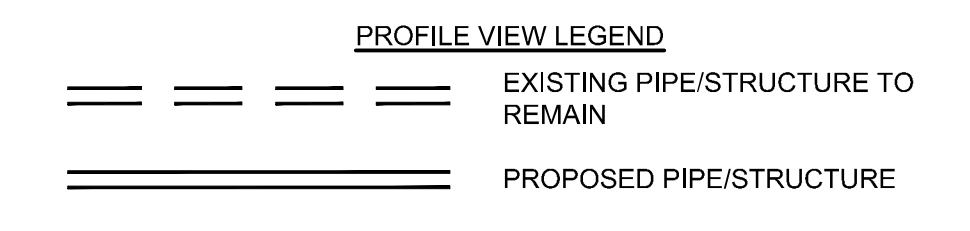
**SANITARY SEWER PROFILE 3**





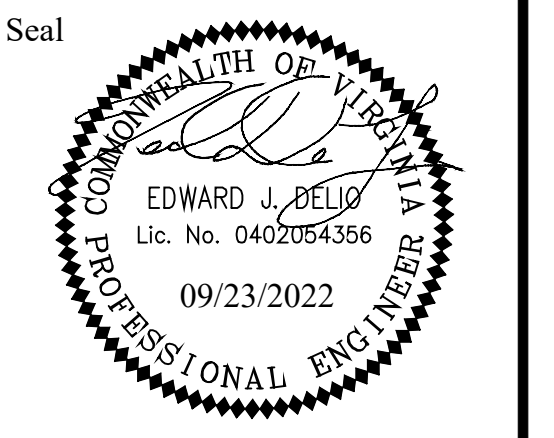
**FOR SANITARY CONST. ONLY**

- NOTES:**
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**ARLINGTON VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL SERVICES  
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 11400 Commerce Park Drive, Suite 400  
 Reston, Virginia 20191  
 Phone: 703-674-1500  
 Fax: 703-674-1500



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

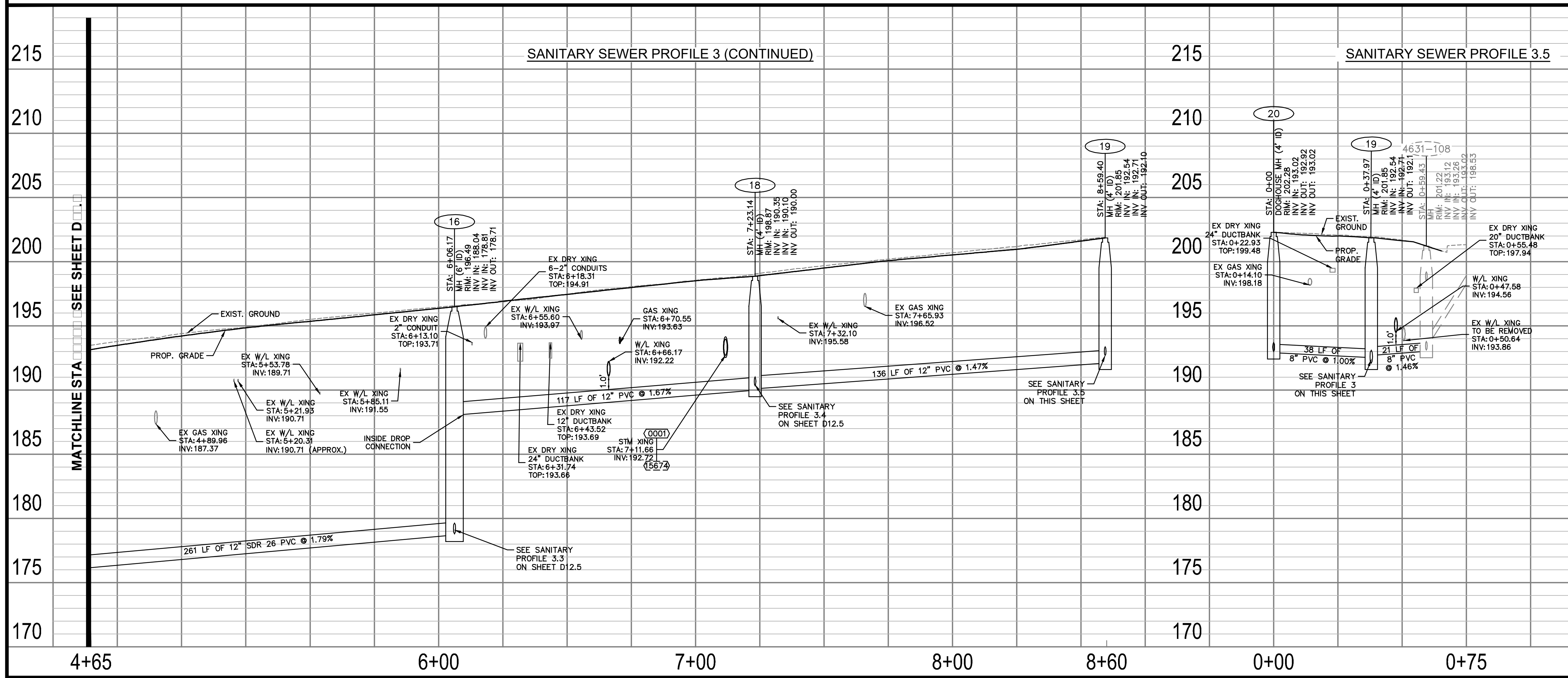
Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions	Date

Designed: MAT  
 Drawn: MAT  
 Checked: TEC  
 Miss Utility Transmittal #:

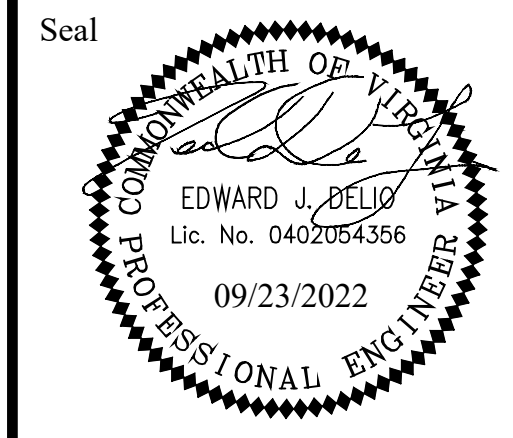
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 Plotted: September 23, 2022  
 Plotted by: Miguel.Tyshing



ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

**SANITARY PLAN AND PROFILES**  
 COLUMBIA PIKE - ROUTE 244  
 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
 SEGMENT D  
 STA. 107+00 TO STA. 112+50

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D12.4 of D12.5

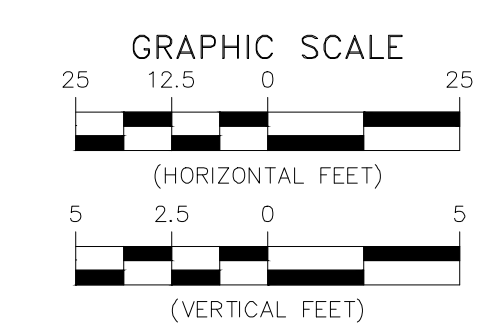


Design Team Engineer Supervisor	Date
Construction Management Supervisor	
Water, Sewer, Streets Bureau Chief	
Transportation Director	
Project Manager	

Revisions	Date

Designed: MAT  
 Drawn: MAT  
 Checked: TEC  
 Miss Utility Transmittal #:

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 Plotted: September 23, 2022  
 Plotted by: Miguel Tyshing



**FOR SANITARY CONST. ONLY**

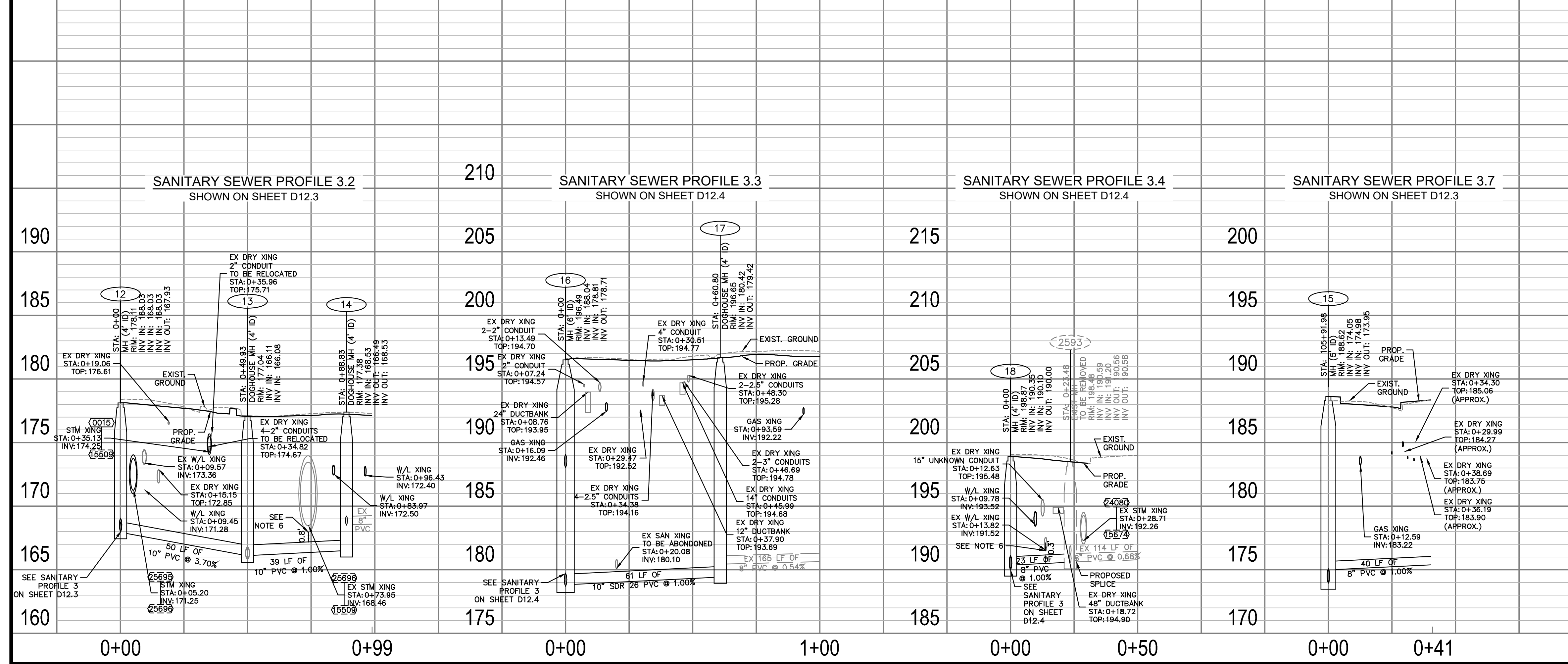
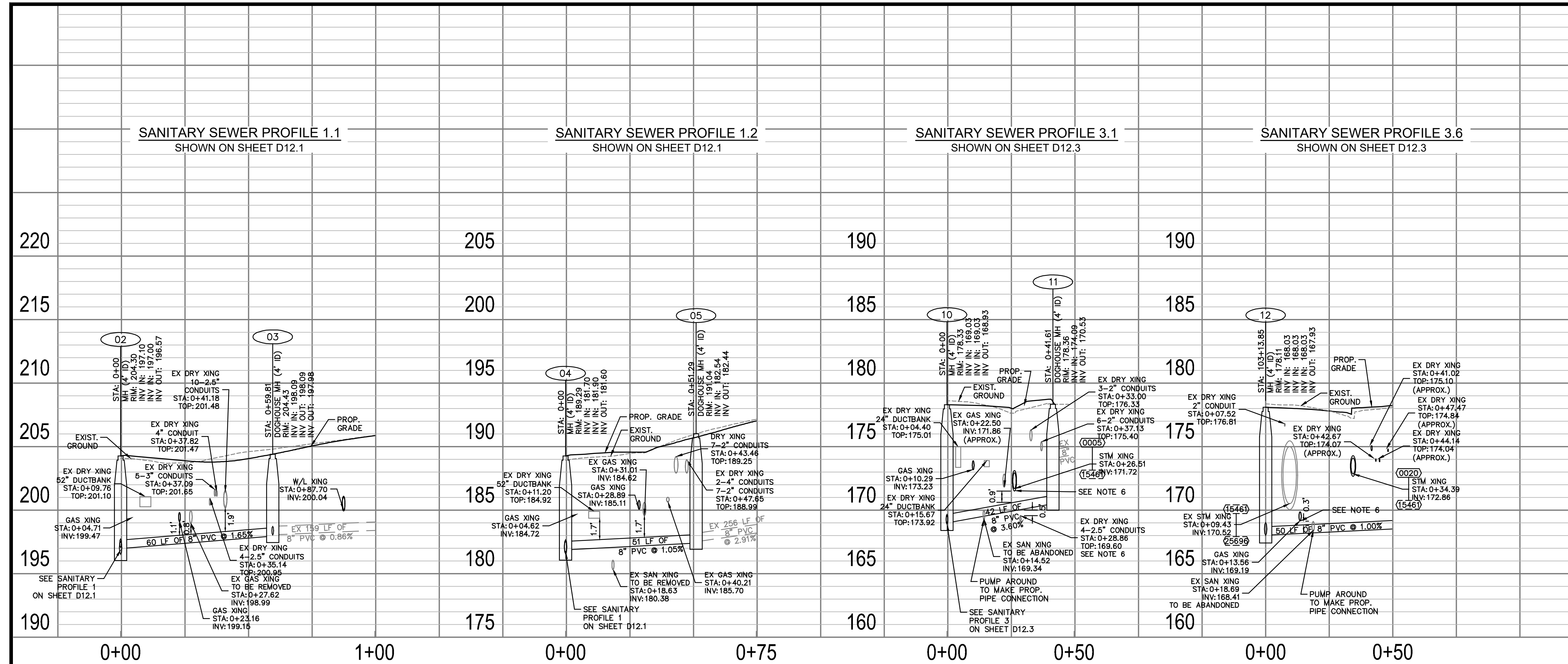
- NOTES:
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**PROFILE VIEW LEGEND**

- EXISTING PIPE/STRUCTURE TO REMAIN
- PROPOSED PIPE/STRUCTURE

**PLAN VIEW LEGEND**

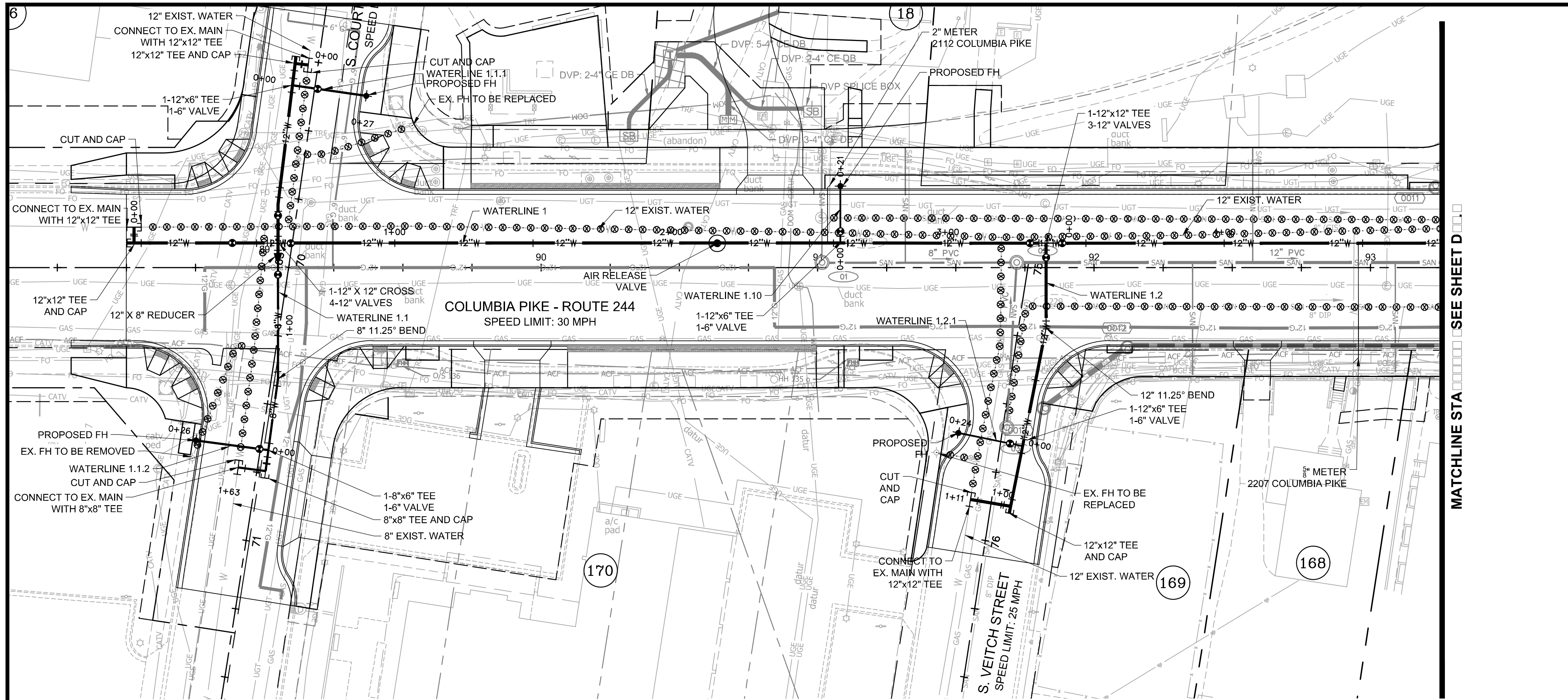
- S PROP. SDR-35 PVC SANITARY SEWER PIPE
- ⊙ PROP. SANITARY SEWER MANHOLE
- ⊙ EXISTING SANITARY SEWER MANHOLE
- 4 PROP. SANITARY STRUCTURE NO.
- ⊙ EXISTING SANITARY STRUCTURE NO.
- ⊙ FILL & ABANDON UTILITY LINE
- X X X X X X X X X X X X X X X X REMOVE UTILITY LINE



ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

**SANITARY PROFILES**  
 COLUMBIA PIKE - ROUTE 244  
 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
 SEGMENT D

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D12.5 of D12.5



**FOR WATERLINE CONST. ONLY**

NOTE:

1. PROFILE STATIONING ALONG CENTERLINE OF PIPE
2. SEE SERIES 10 FOR FULL UTILITY NETWORK PLAN VIEWS.
3. SEE SHEET D13.9 FOR RESTRAINT TABLE
4. CONTRACTOR TO CONFIRM ACTIVE AND ABANDONED METERS IN THE FIELD AND REPLACE SERVICE CONNECTIONS IN KIND TO THOSE THAT ARE ACTIVE.
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6. WASHINGTON GAS PROPOSED LINES ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE INSTALLED BY OTHERS. REFERENCE WR #3091840 OR EXCAVATION #EXCV21-01093 FOR DETAILS.

**LEGEND**

- PROP. SERVICE CONNECTION
- 4" W PROP. 4" WATER PIPE
- 6" W PROP. 6" WATER PIPE
- 8" W PROP. 8" WATER PIPE
- 12" W PROP. 12" WATER PIPE
- PROP. VALVE
- ⦿ PROP. FIRE HYDRANT
- ▾ PROP. REDUCER
- ▬ PROP. TEE
- ▭ PROP. CROSS
- ∩ PROP. 11.25° BEND
- ∩ PROP. 22.5° BEND
- ∩ PROP. 45° BEND
- ∩ PROP. 90° BEND
- PROP. WATER METER
- PROP. CAP
- ⋯⋯⋯ FILL & ABANDON UTILITY LINE
- - - - - REMOVE UTILITY LINE
- ⊗ REMOVE VALVE BOX

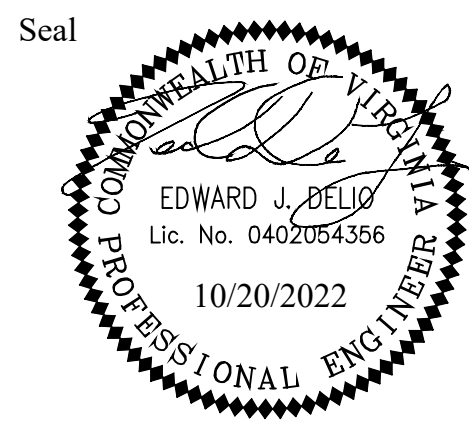


DEPARTMENT OF ENVIRONMENTAL SERVICES

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**Kimley-Horn**  
**and Associates, Inc.**

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Reston, Virginia 20191  
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Fax: 703-674-1500



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

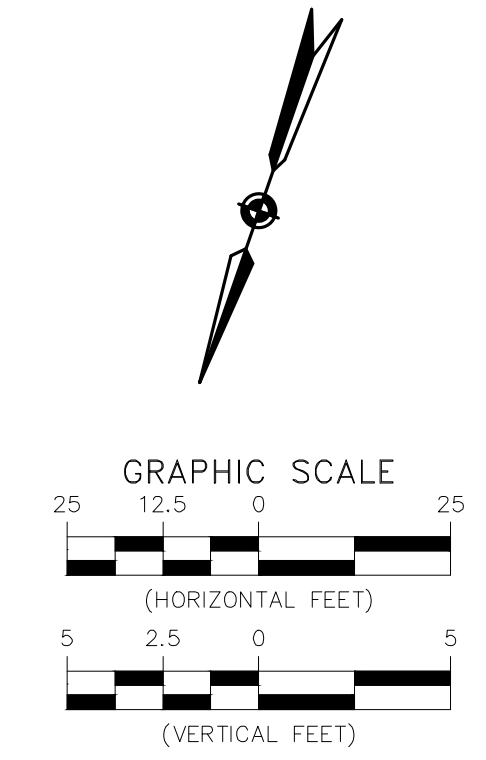
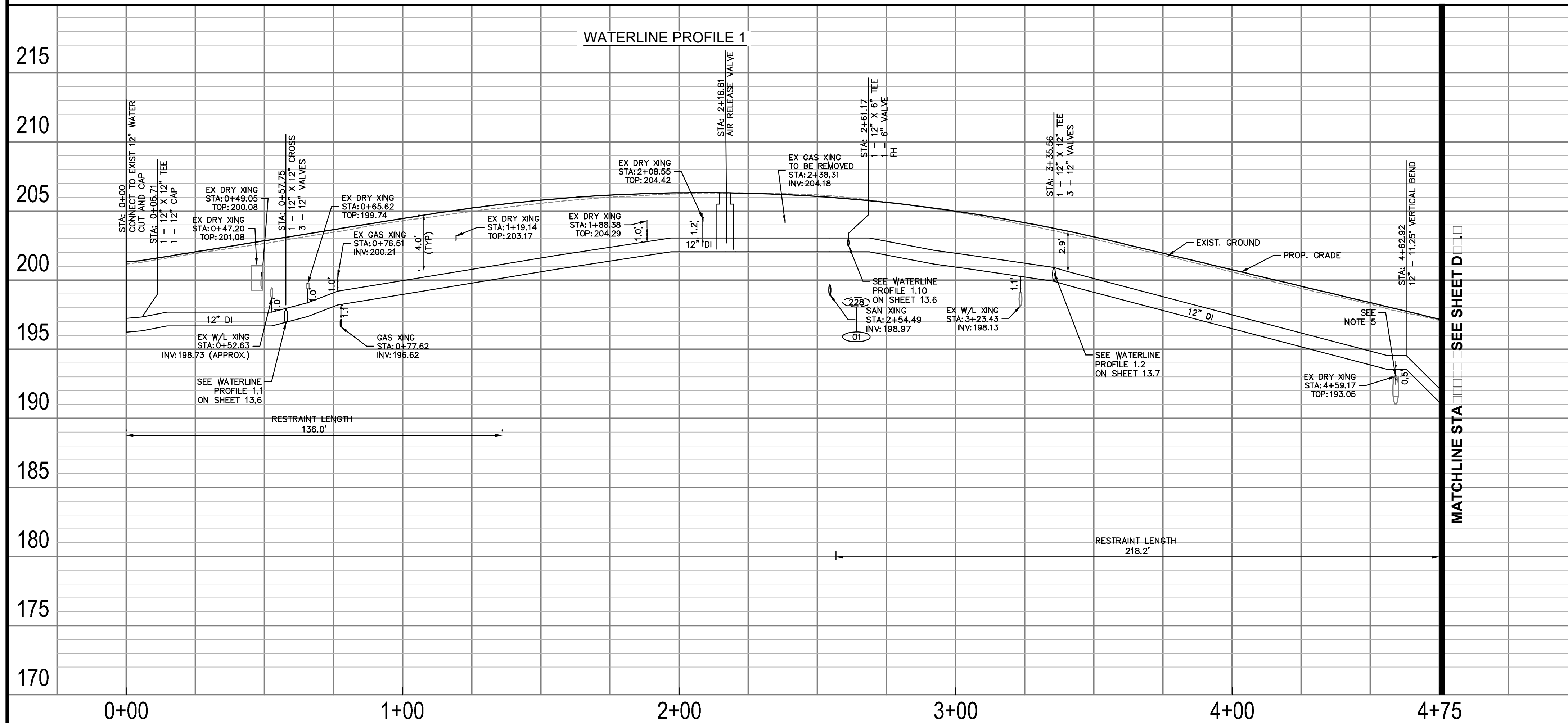
Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: MAT  
Drawn: MAT  
Checked: EJD  
Miss Utility Transmittal #: \_\_\_\_\_

Filename: 010073-D-WATR.dwg  
Path: ...  
Plotted: October 20, 2022  
Plotted by: Miguel Tyshing



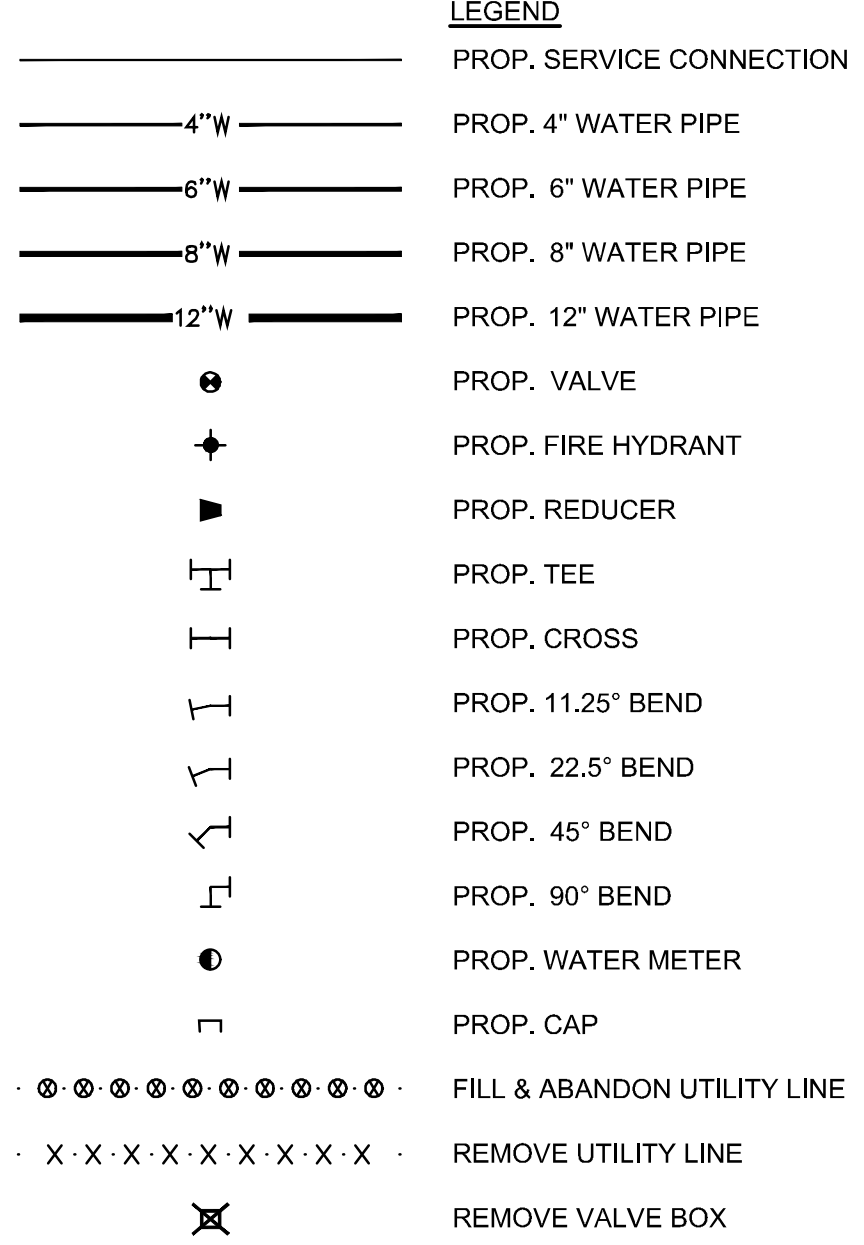
ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

**WATERLINE PLAN AND PROFILES**  
**COLUMBIA PIKE - ROUTE 244**  
**COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS**  
**SEGMENT D**  
STA. 88+00 TO STA. 93+25

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D13.1 of D13.9

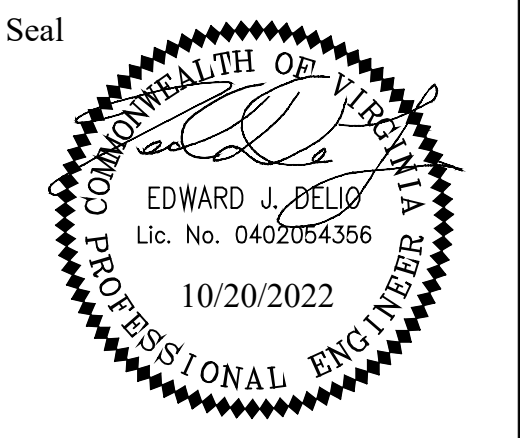
**FOR WATERLINE CONST. ONLY**  
NOTE:

1. PROFILE STATIONING ALONG CENTERLINE OF PIPE
2. SEE SERIES 10 FOR FULL UTILITY NETWORK PLAN VIEWS.
3. SEE SHEET D13.9 FOR RESTRAINT TABLE
4. CONTRACTOR TO CONFIRM ACTIVE AND ABANDONED METERS IN THE FIELD AND REPLACE SERVICE CONNECTIONS IN KIND TO THOSE THAT ARE ACTIVE.
5. WHERE MINIMUM VERTICAL CLEARANCES BETWEEN UTILITIES CANNOT BE MET, CONTRACTOR TO INSTALL CONCRETE PIERS AND/OR REINFORCED CONCRETE CRADLE PER ARLINGTON COUNTY STANDARD DRAWING M-7.0.
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**ARLINGTON VIRGINIA**  
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11400 Commerce Park Drive, Suite 400  
Reston, Virginia 20191  
Phone: 703-774-1500  
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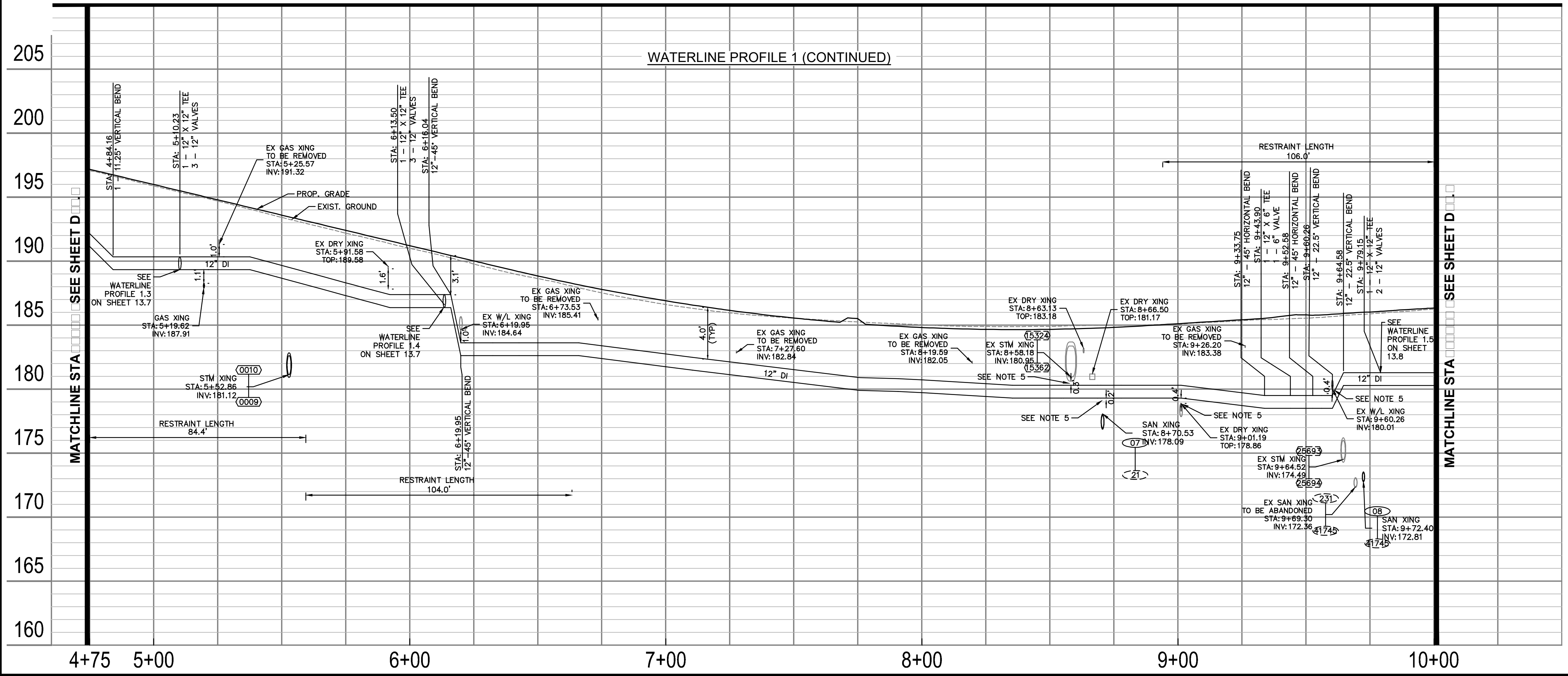
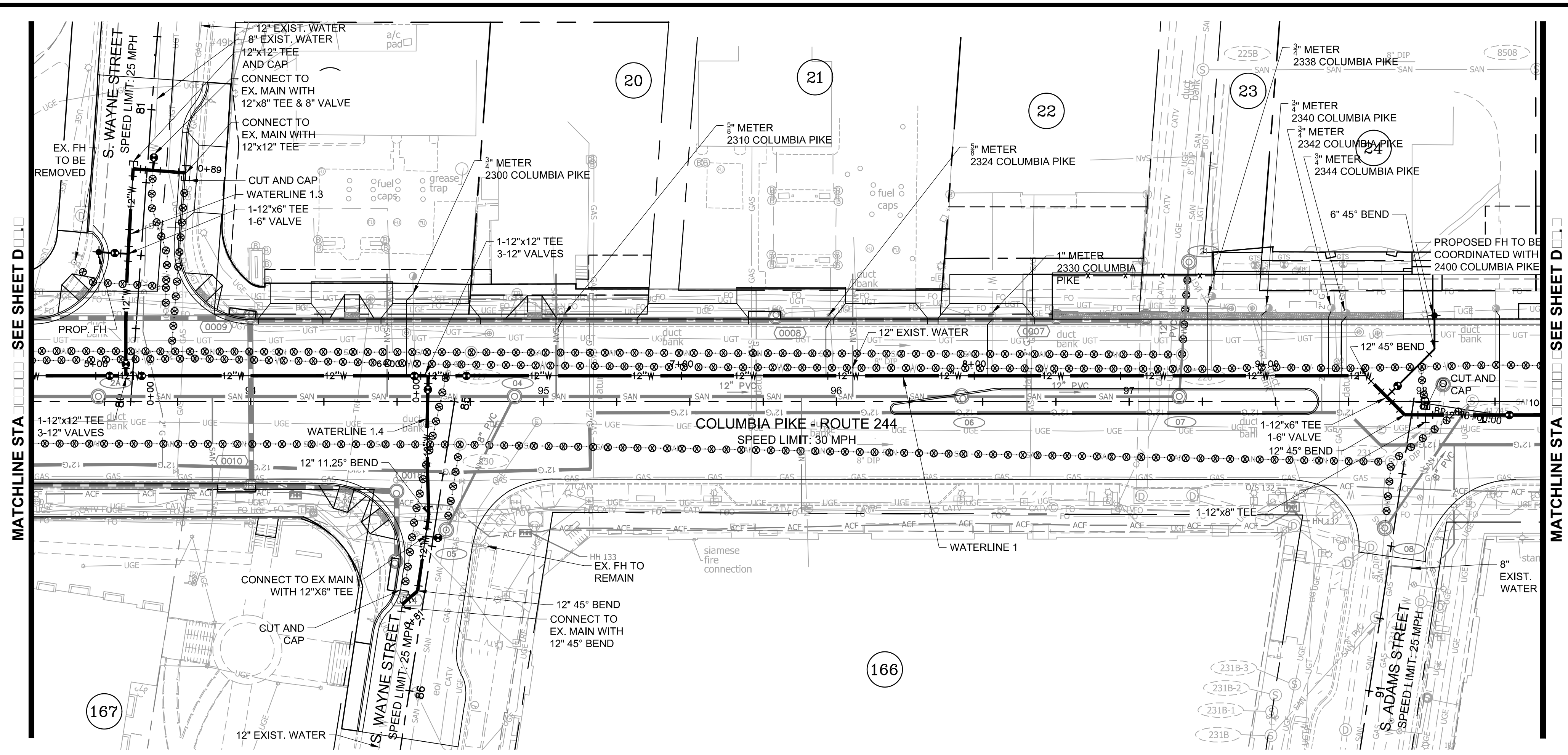
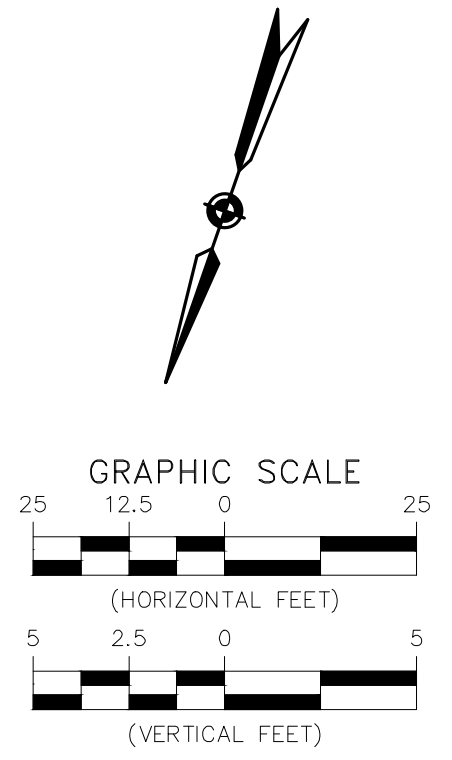
Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_  
Construction Management Supervisor \_\_\_\_\_  
Water, Sewer, Streets Bureau Chief \_\_\_\_\_  
Transportation Director \_\_\_\_\_  
Project Manager \_\_\_\_\_

Revisions	Date

Designed: MAT  
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Checked: EJD  
Miss Utility Transmittal #:

Filename: 010073-D-WATR.dwg  
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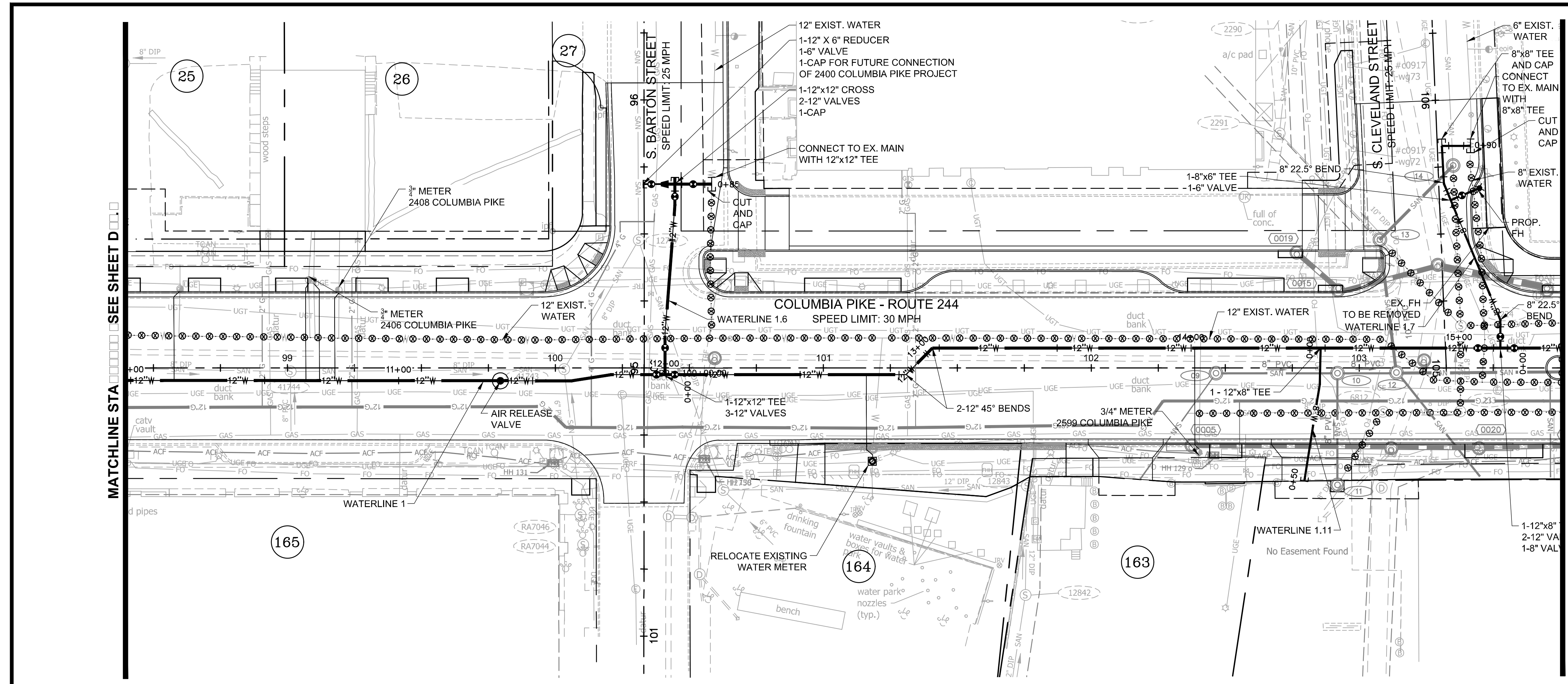


ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

**WATERLINE PLAN AND PROFILES  
COLUMBIA PIKE - ROUTE 244  
MULTIMODAL STREET IMPROVEMENTS  
SEGMENT D  
STA. 93+25 TO STA. 98+40**

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D13.2 of D13.9





**FOR WATERLINE CONST. ONLY**

- NOTE:**
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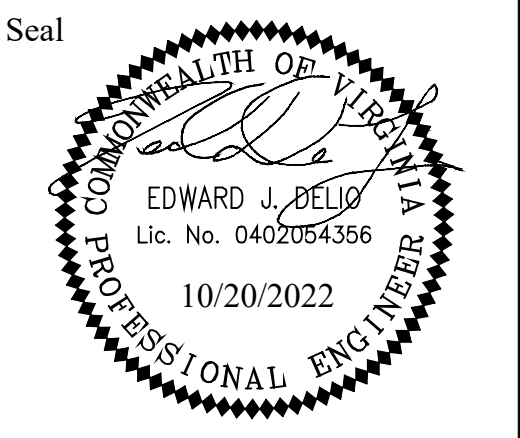
**LEGEND**

(Symbol)	PROP. SERVICE CONNECTION
(Symbol)	PROP. 4" WATER PIPE
(Symbol)	PROP. 6" WATER PIPE
(Symbol)	PROP. 8" WATER PIPE
(Symbol)	PROP. 12" WATER PIPE
(Symbol)	PROP. VALVE
(Symbol)	PROP. FIRE HYDRANT
(Symbol)	PROP. REDUCER
(Symbol)	PROP. TEE
(Symbol)	PROP. CROSS
(Symbol)	PROP. 11.25° BEND
(Symbol)	PROP. 22.5° BEND
(Symbol)	PROP. 45° BEND
(Symbol)	PROP. 90° BEND
(Symbol)	PROP. WATER METER
(Symbol)	PROP. CAP
(Symbol)	FILL & ABANDON UTILITY LINE
(Symbol)	REMOVE UTILITY LINE
(Symbol)	REMOVE VALVE BOX



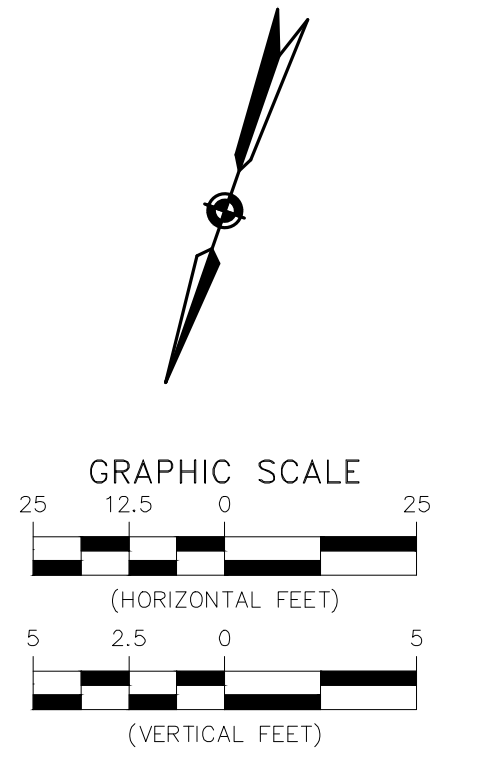
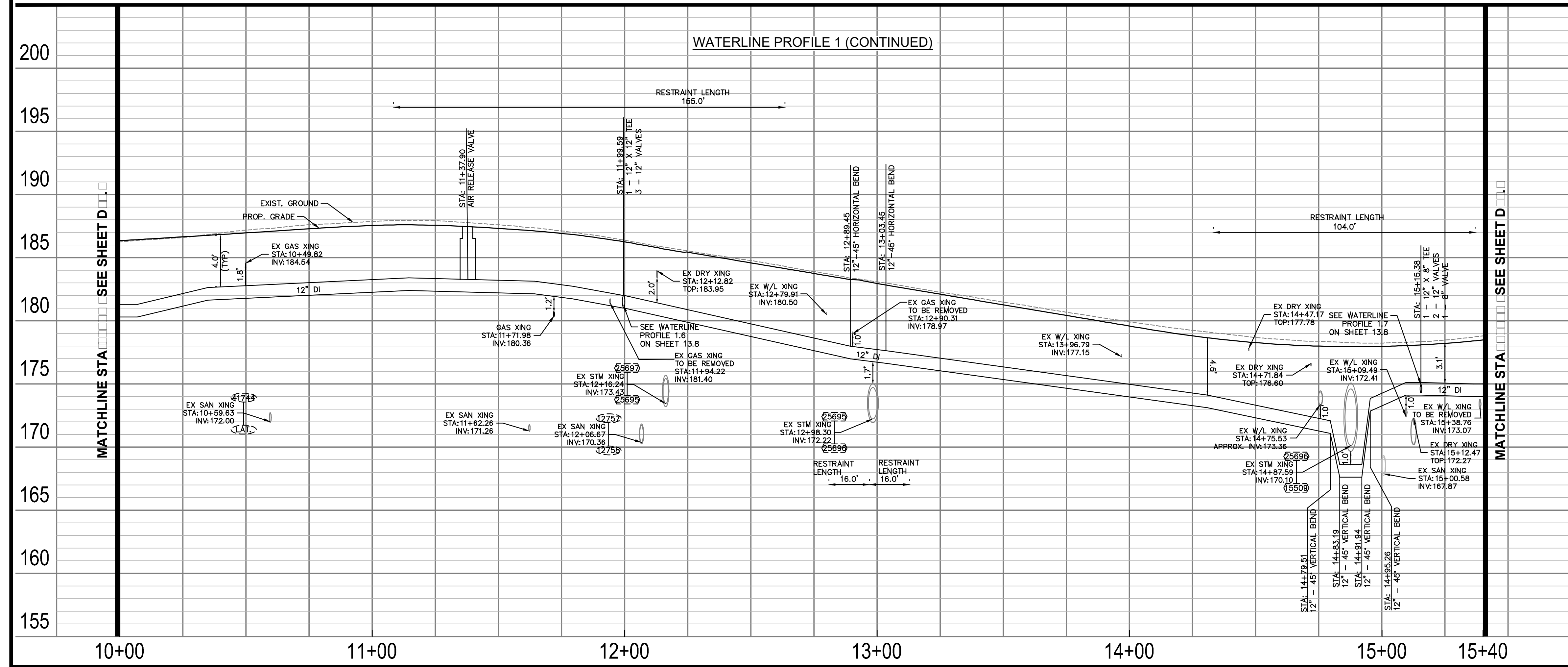
DEPARTMENT OF ENVIRONMENTAL SERVICES  
Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
Arlington, VA 22201  
Phone: 703.228.3629  
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**Kimley-Horn**  
and Associates, Inc.  
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Reston, Virginia 20191  
Phone: 703-874-1500  
Fax: 703-874-1500



**Approvals**

_____	Date
_____	
_____	
_____	
_____	
_____	
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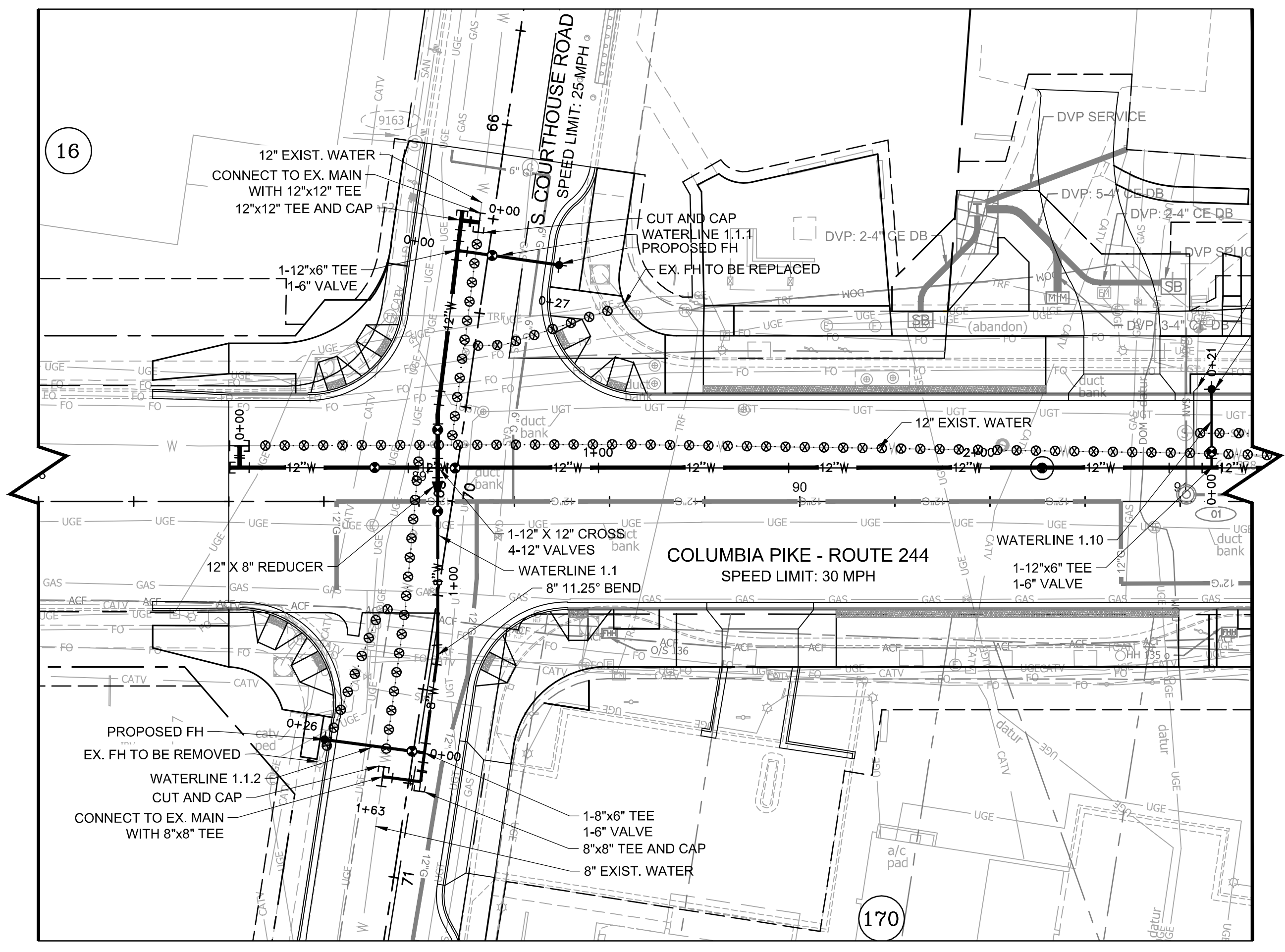
ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

WATERLINE PLAN AND PROFILES  
COLUMBIA PIKE - ROUTE 244  
COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
SEGMENT D  
STA. 98+40 TO STA. 103+75

SCALE: HOR. 1" = 25'; VERT. 1" = 5'; SHEET: D13.3 of D13.8







**FOR WATERLINE CONST. ONLY**

NOTE:

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4. CONTRACTOR TO CONFIRM ACTIVE AND ABANDONED METERS IN THE FIELD AND REPLACE SERVICE CONNECTIONS IN KIND TO THOSE THAT ARE ACTIVE.
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LEGEND	
	PROP. SERVICE CONNECTION

**ARLINGTON VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL SERVICES  
 Facilities & Engineering Division  
 Engineering Bureau  
 2100 Clarendon Boulevard, Suite 813  
 Arlington, VA 22201  
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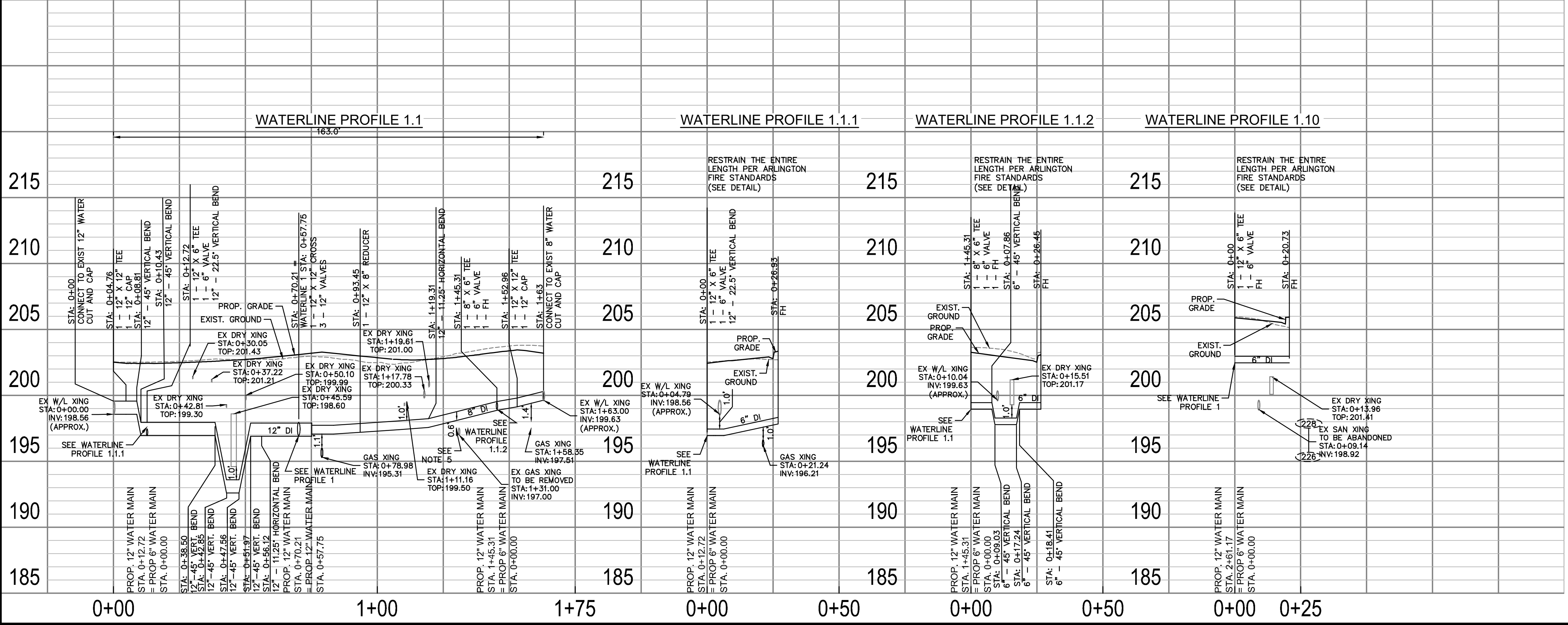
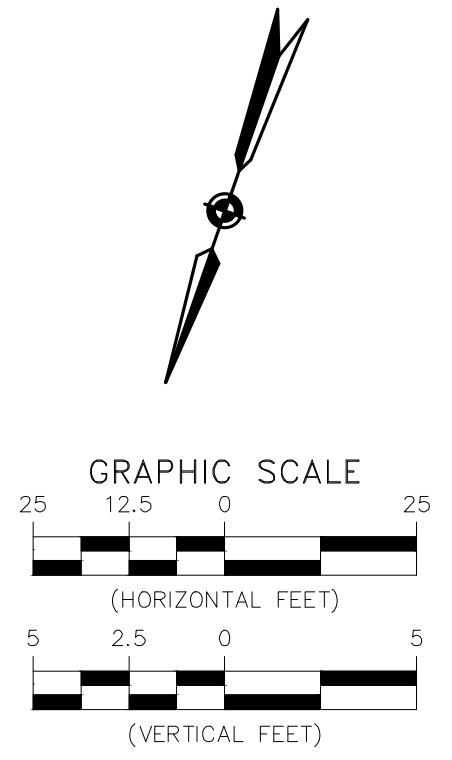
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 Reston, Virginia 20191  
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 Fax: 703-874-1500

Seal  
  
 EDWARD J. BELL  
 Lic. No. 0402054356  
 09/23/2022  
 PROFESSIONAL ENGINEER

Approvals	Date
Design Team Engineer Supervisor	
Construction Management Supervisor	
Water, Sewer, Streets Bureau Chief	
Transportation Director	
Project Manager	

Revisions	Date

Designed: MAT  
 Drawn: MAT  
 Checked: EJD  
 Miss Utility Transmittal #:  
 Filename: 010073-D-WATR.dwg  
 Path: S:\VA\_009\VA\1010091 Columbia Pike Multimodal\Production\Drawings  
 Plotted: September 23, 2022  
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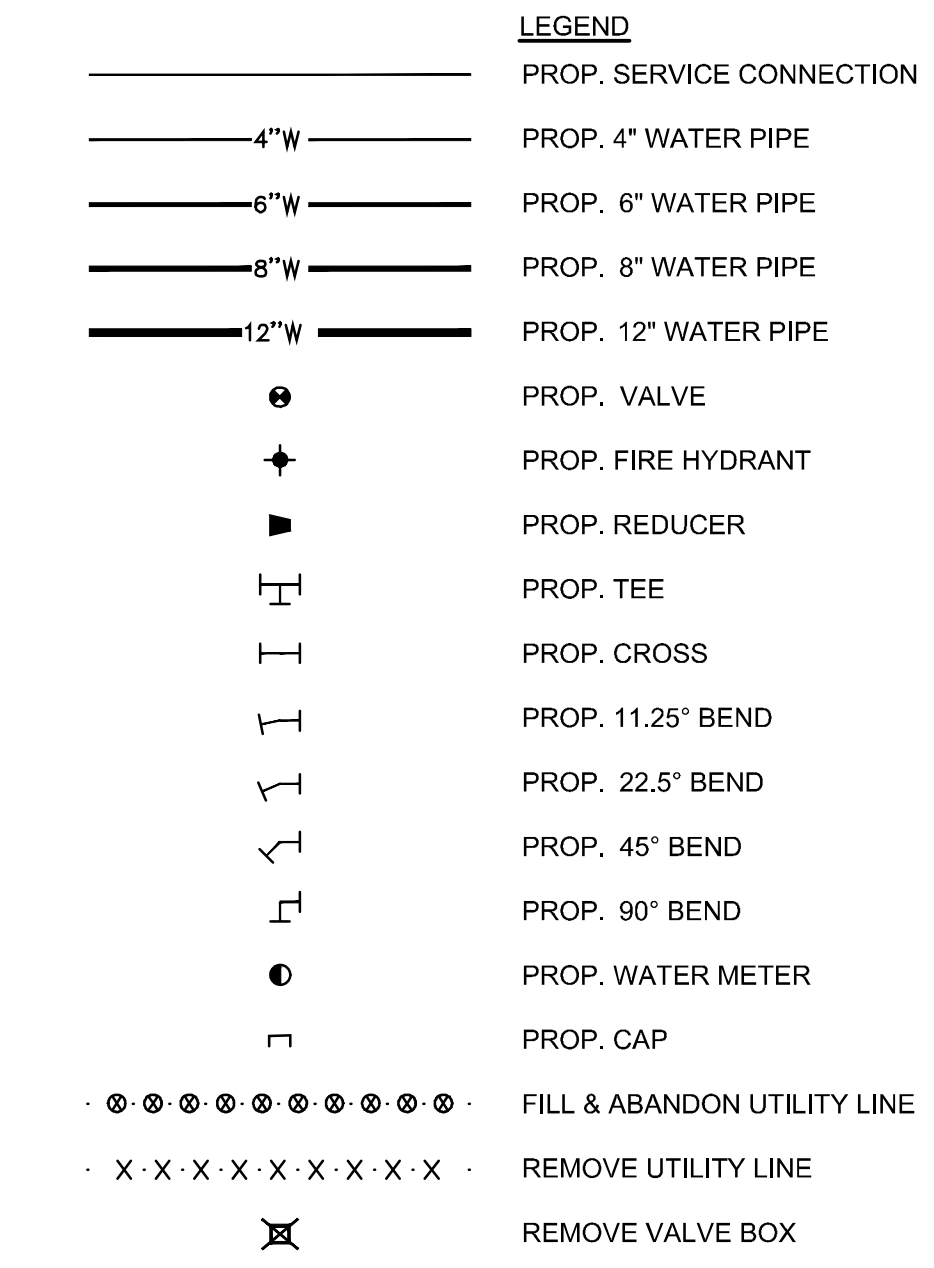
ARLINGTON COUNTY, VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL SERVICES

**WATERLINE PLAN AND PROFILES - CONNECTIONS  
 COLUMBIA PIKE - ROUTE 244  
 COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS  
 SEGMENT D**

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D13.6 of D13.9

FOR WATERLINE CONST. ONLY

- NOTE:
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3. SEE SHEET D13.9 FOR RESTRAINT TABLE
4. CONTRACTOR TO CONFIRM ACTIVE AND ABANDONED METERS IN THE FIELD AND REPLACE SERVICE CONNECTIONS IN KIND TO THOSE THAT ARE ACTIVE.
5. WHERE MINIMUM VERTICAL CLEARANCES BETWEEN UTILITIES CANNOT BE MET, CONTRACTOR TO INSTALL CONCRETE PIERS AND/OR REINFORCED CONCRETE CRADLE PER ARLINGTON COUNTY STANDARD DRAWING M-7.0.
6. WASHINGTON GAS PROPOSED LINES ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE INSTALLED BY OTHERS. REFERENCE WR #3091840 OR EXCAVATION #EXCV21-01093 FOR DETAILS.



ARLINGTON VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES. Facilities & Engineering Division Engineering Bureau 2100 Clarendon Boulevard, Suite 813 Arlington, VA 22201

Kimley-Horn and Associates, Inc. 2022 KIMLEY-HORN AND ASSOCIATES, INC. 11400 Commerce Park Drive, Suite 400 Reston, Virginia 20191 Phone: 703-874-1500 Fax: 703-874-1500

Seal of Edward J. DeJong, Professional Engineer, No. 0402054356, 09/23/2022

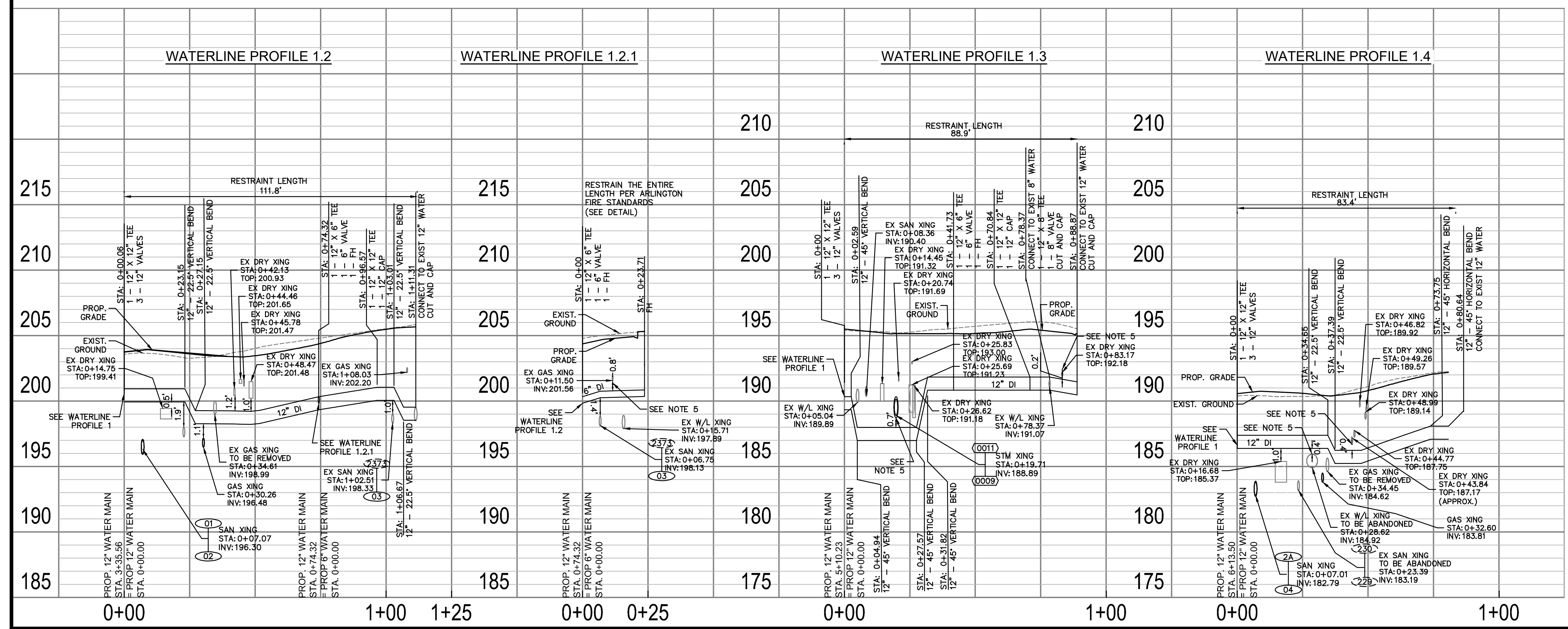
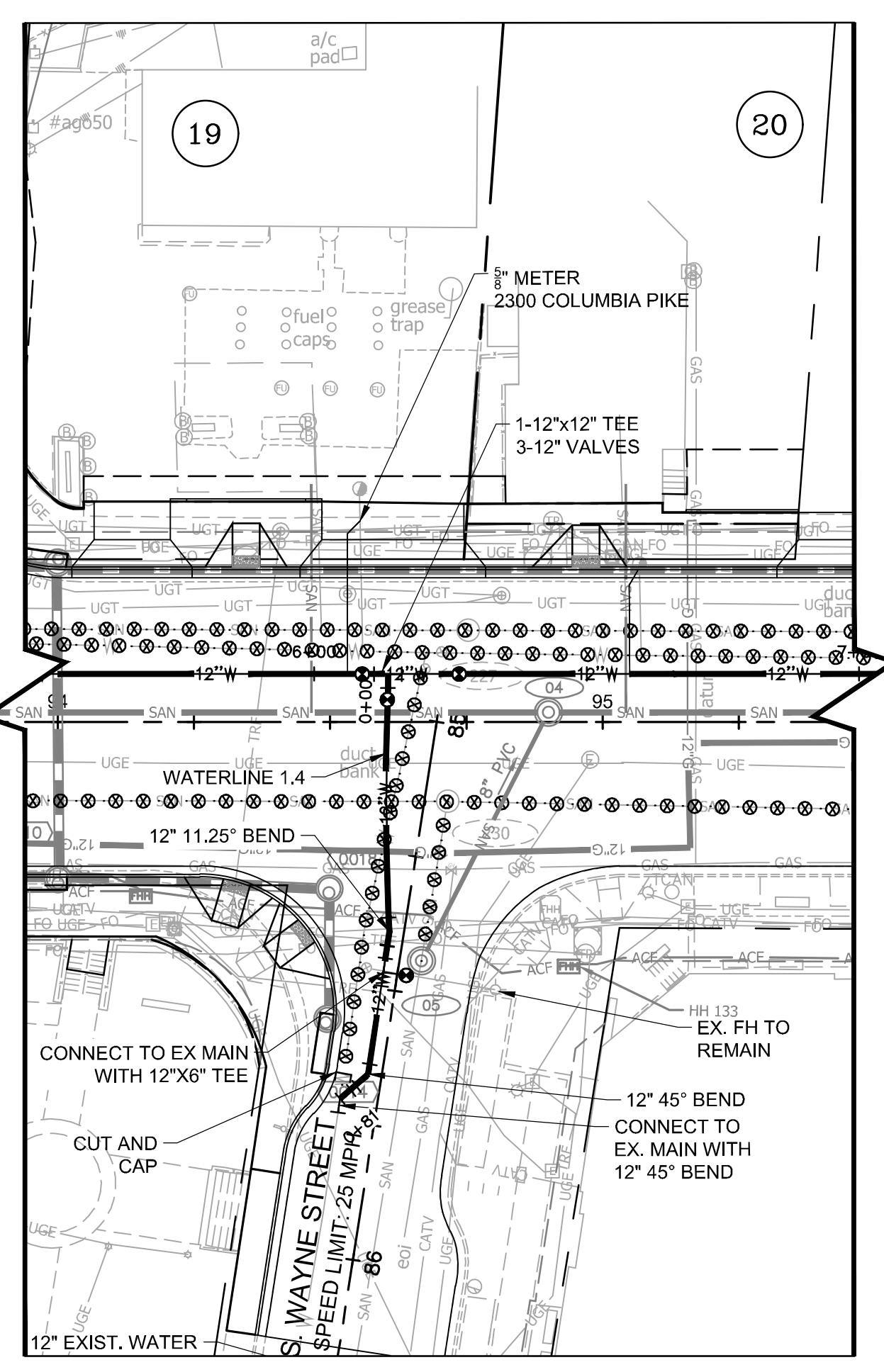
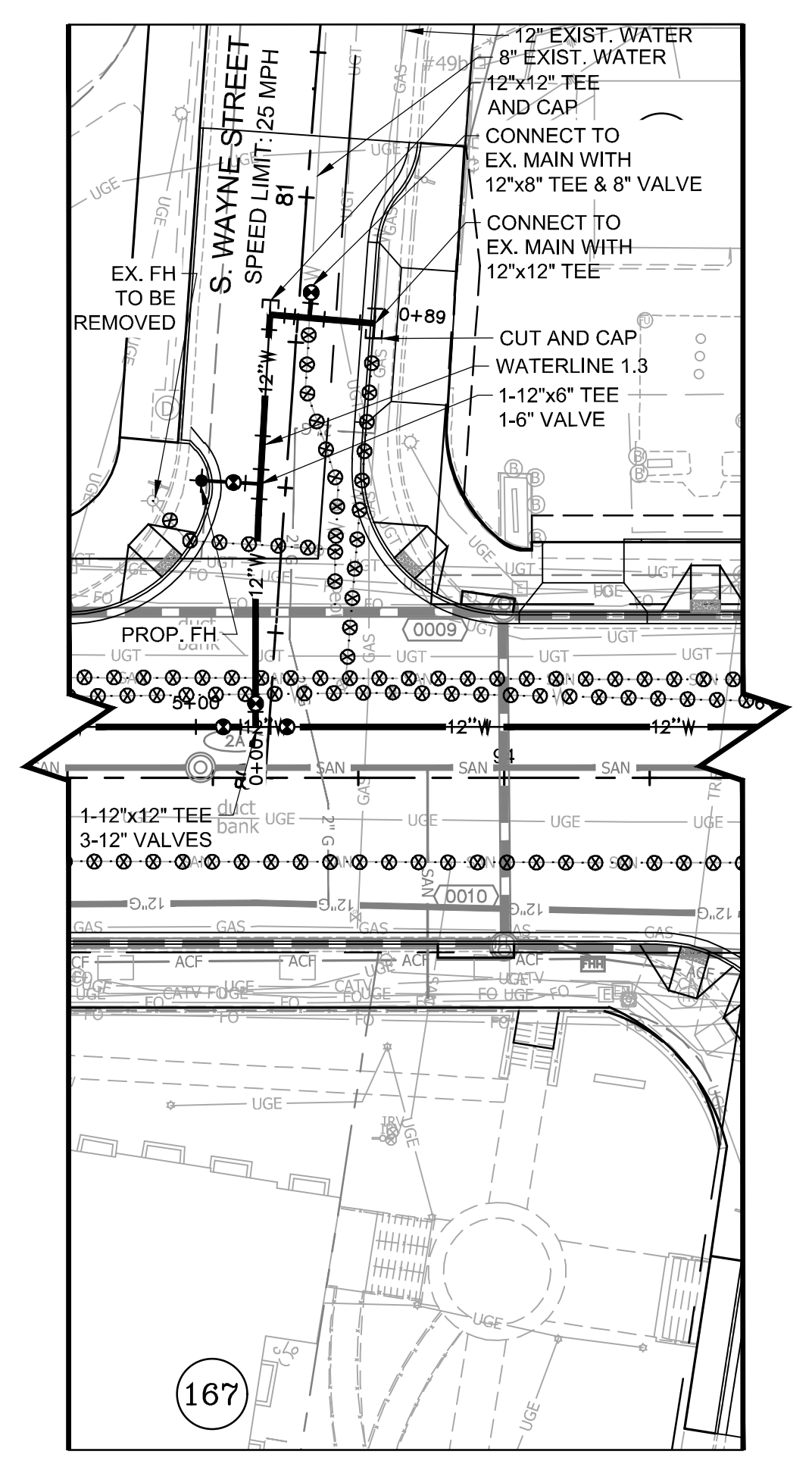
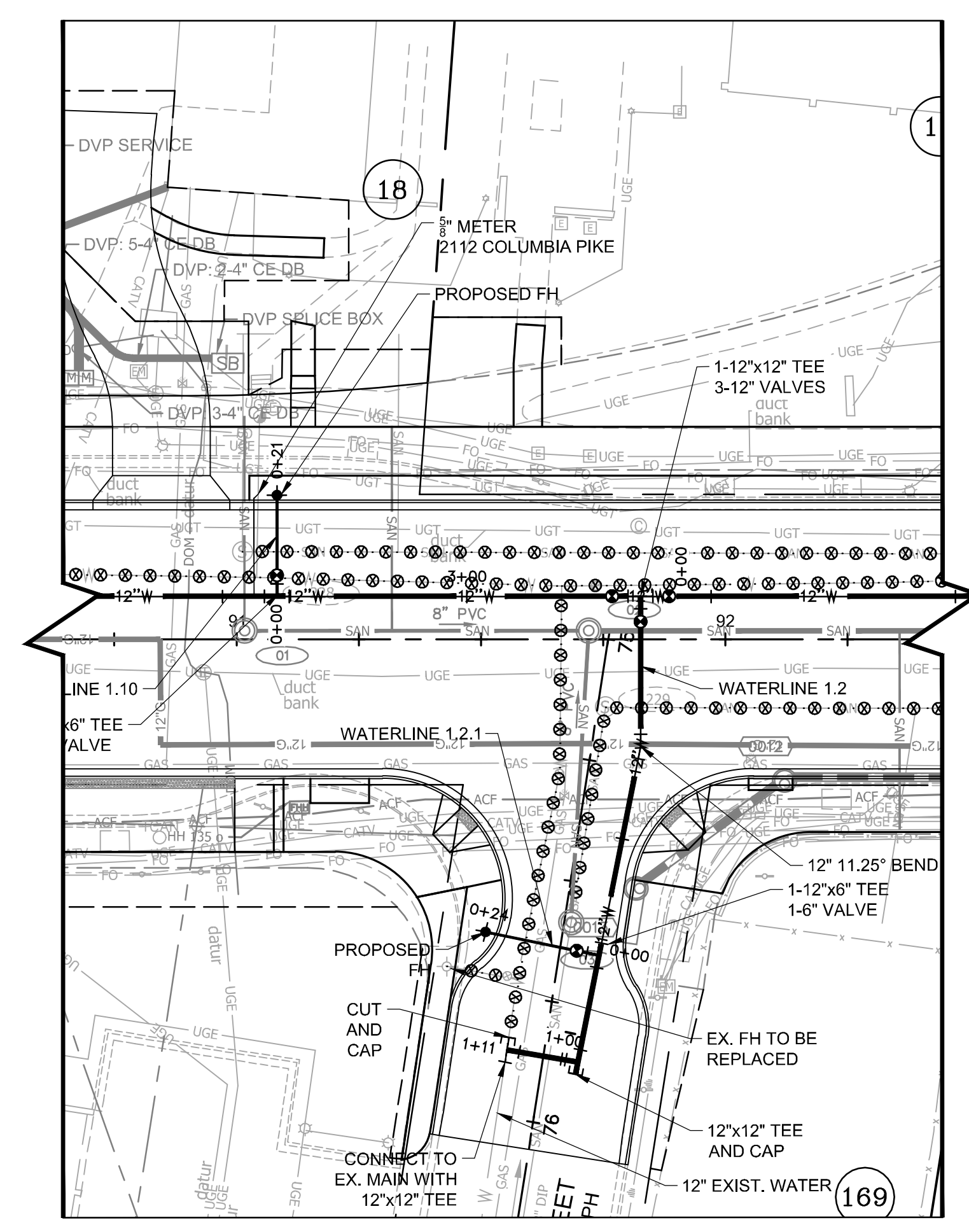
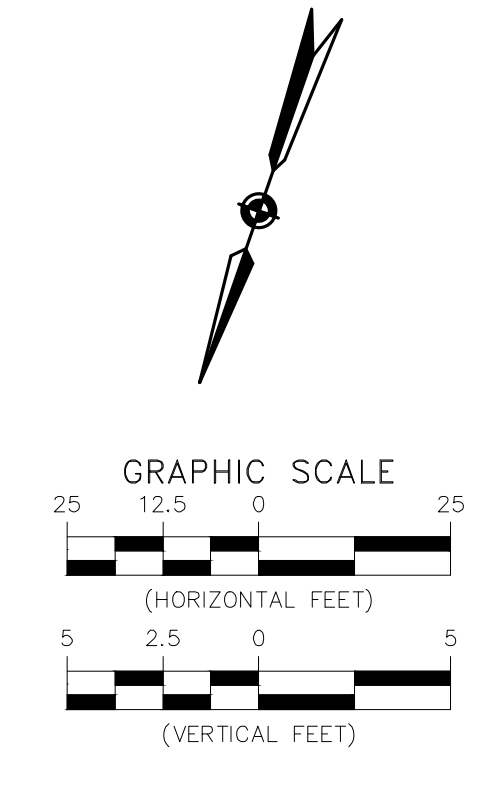
Table with columns 'Approvals' and 'Date' for various roles: Design Team Engineer Supervisor, Construction Management Supervisor, Water, Sewer, Streets Bureau Chief, Transportation Director, Project Manager.

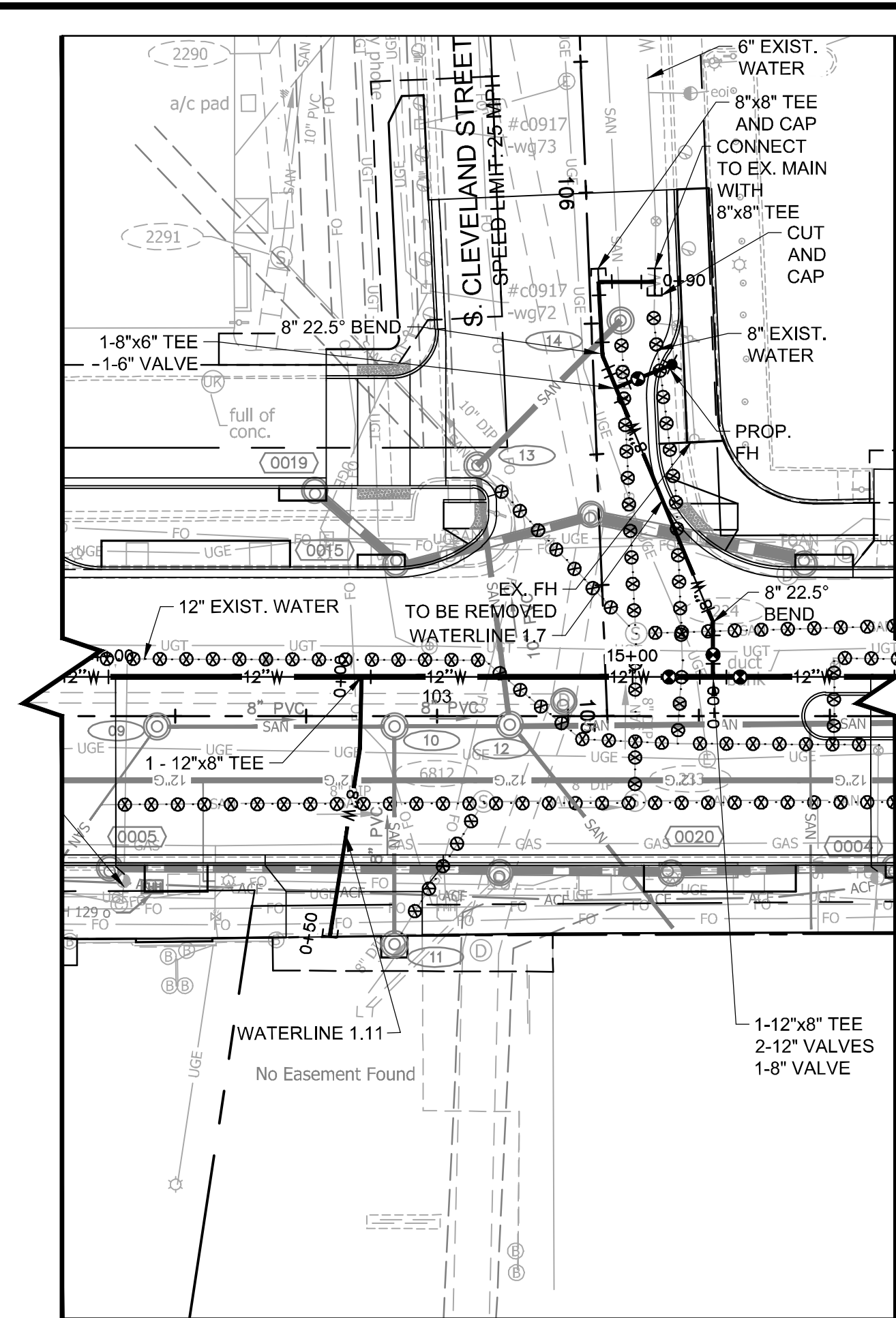
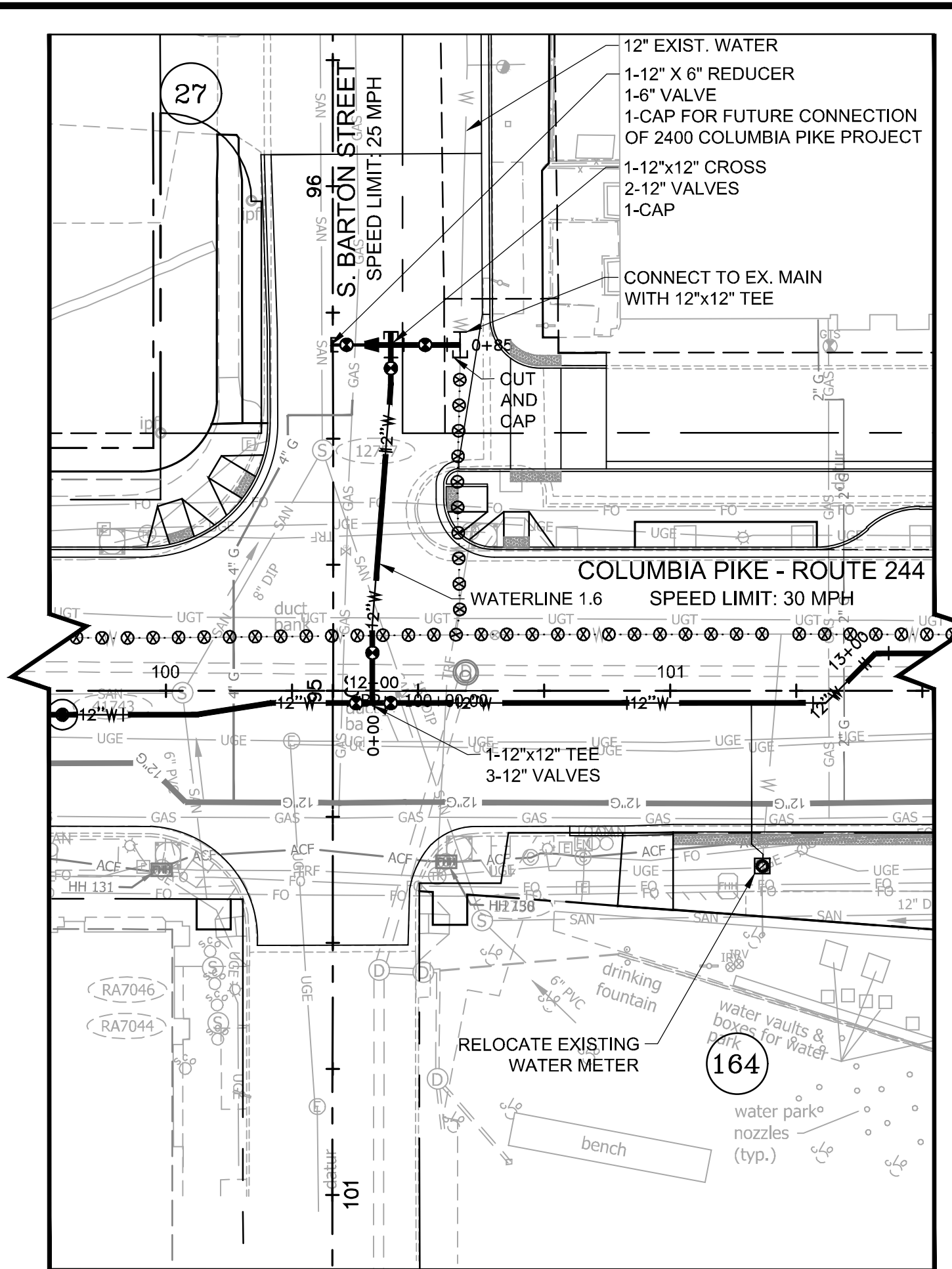
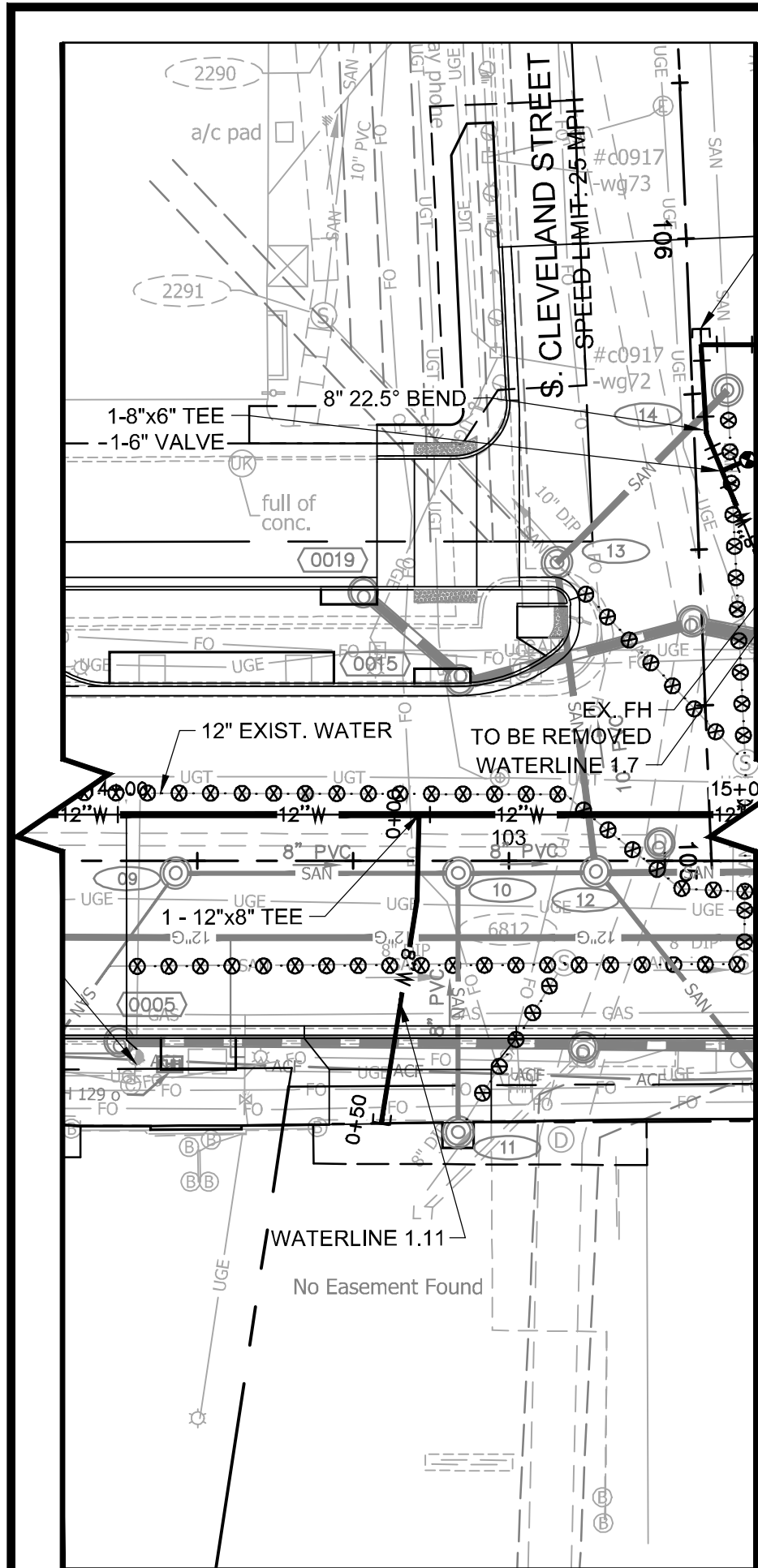
Table with columns 'Revisions' and 'Date' for project updates.

Designed: MAT
Drawn: MAT
Checked: EJD
Miss Utility Transmittal #:

Filename: 010073-D-WATR.dwg
Path: C:\Users\matt\OneDrive\Documents\Projects\010073-D-WATR.dwg
Plotted: September 23, 2022
Plotted by: Miguel Tyshing

ARLINGTON COUNTY, VIRGINIA DEPARTMENT OF ENVIRONMENTAL SERVICES. WATERLINE PLAN AND PROFILES - CONNECTIONS COLUMBIA PIKE - MULTIMODAL STREET IMPROVEMENTS SEGMENT D. SCALE: HOR. 1"=25' VERT. 1"=5' SHEET: D13.7 of D13.9





**FOR WATERLINE CONST. ONLY**

**NOTE:**

- PROFILE STATIONING ALONG CENTERLINE OF PIPE
- SEE SERIES 10 FOR FULL UTILITY NETWORK PLAN VIEWS.
- SEE SHEET D13.9 FOR RESTRAINT TABLE
- CONTRACTOR TO CONFIRM ACTIVE AND ABANDONED METERS IN THE FIELD AND REPLACE SERVICE CONNECTIONS IN KIND TO THOSE THAT ARE ACTIVE.
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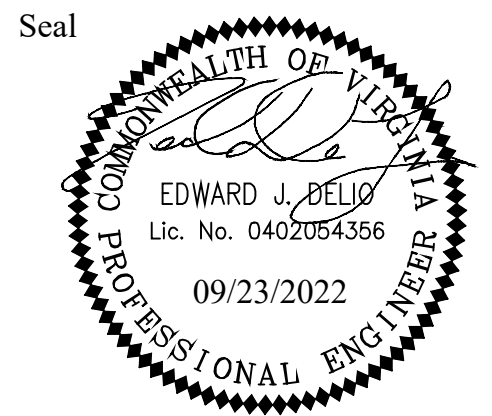
LEGEND	
—	PROP. SERVICE CONNECTION
— 4" W —	PROP. 4" WATER PIPE
— 6" W —	PROP. 6" WATER PIPE
— 8" W —	PROP. 8" WATER PIPE
— 12" W —	PROP. 12" WATER PIPE
⊙	PROP. VALVE
⊕	PROP. FIRE HYDRANT
⊖	PROP. REDUCER
⊗	PROP. TEE
⊘	PROP. CROSS
⊙	PROP. 11.25° BEND
⊙	PROP. 22.5° BEND
⊙	PROP. 45° BEND
⊙	PROP. 90° BEND
⊙	PROP. WATER METER
⊙	PROP. CAP
⊙	FILL & ABANDON UTILITY LINE
X X X X X X X X X X X X	REMOVE UTILITY LINE
⊗	REMOVE VALVE BOX



DEPARTMENT OF ENVIRONMENTAL SERVICES

Facilities & Engineering Division  
Engineering Bureau  
2100 Clarendon Boulevard, Suite 813  
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Reston, Virginia 20191  
Phone: 703-674-1500  
Fax: 703-674-1500



Approvals \_\_\_\_\_ Date \_\_\_\_\_

Design Team Engineer Supervisor \_\_\_\_\_

Construction Management Supervisor \_\_\_\_\_

Water, Sewer, Streets Bureau Chief \_\_\_\_\_

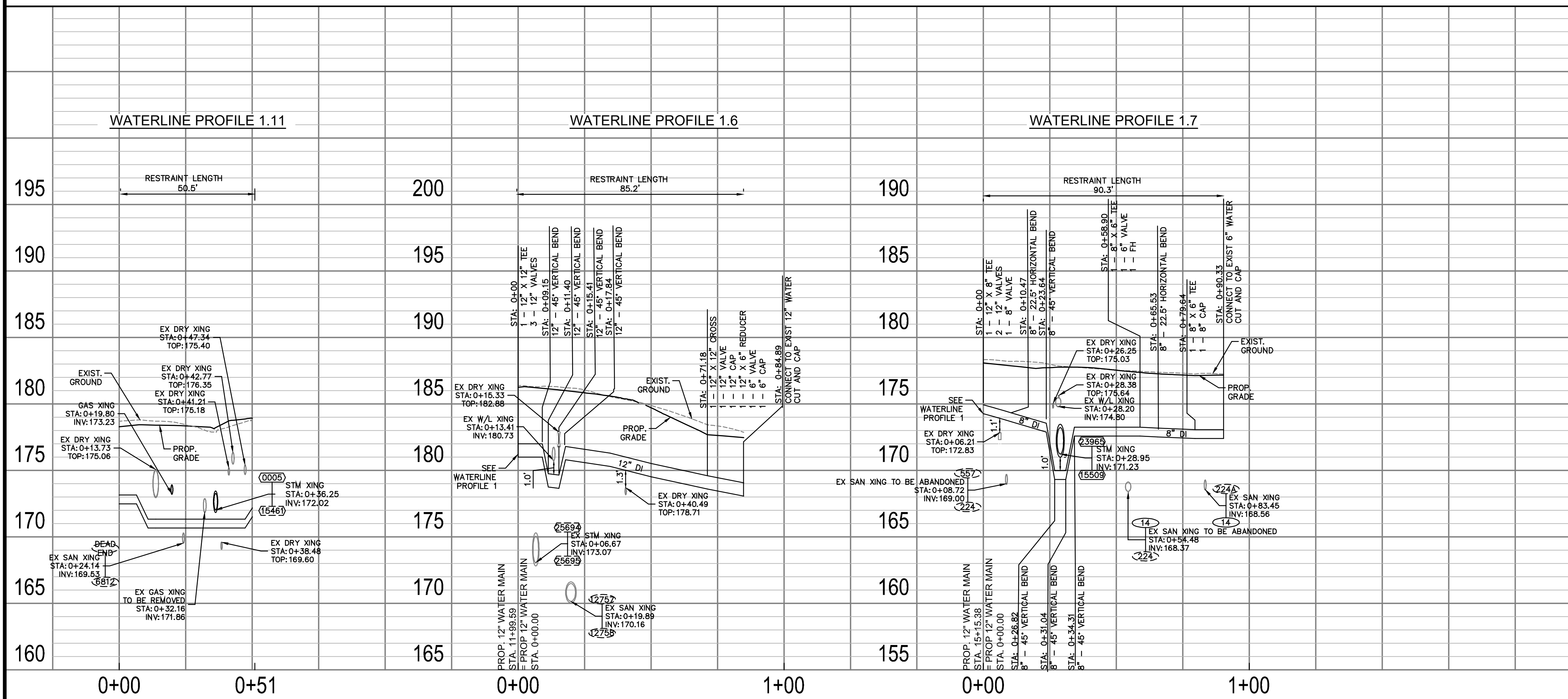
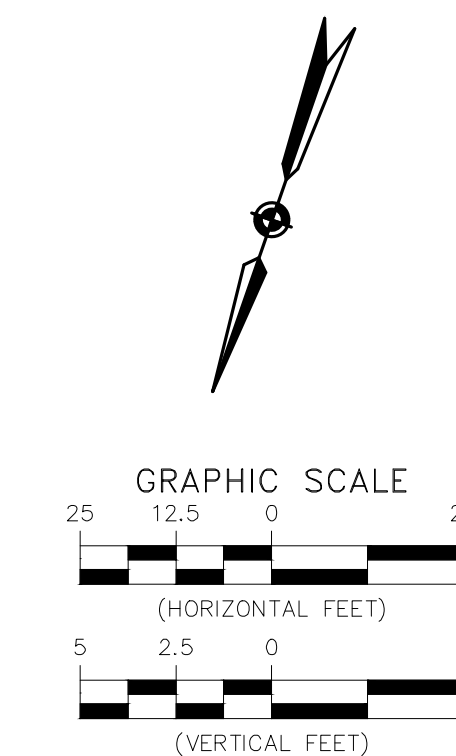
Transportation Director \_\_\_\_\_

Project Manager \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

Designed: MAT  
Drawn: MAT  
Checked: EJD  
Miss Utility Transmittal #: \_\_\_\_\_

Filename: 010073-D-WATR.dwg  
Path: \\s:\va\2024\11\010073 Columbia Pike Multimodal\Production\Drawings\Plan\Drawings  
Plotted: September 23, 2022  
Plotted by: Miguel.Tyshing



ARLINGTON COUNTY, VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL SERVICES

WATERLINE PLAN AND PROFILES - CONNECTIONS  
COLUMBIA PIKE - ROUTE 244  
MULTIMODAL STREET IMPROVEMENTS  
SEGMENT D

SCALE: HOR. 1" = 25' VERT. 1" = 5' SHEET: D13.8 of D13.9

