

ARLINGTON VIRGINIA

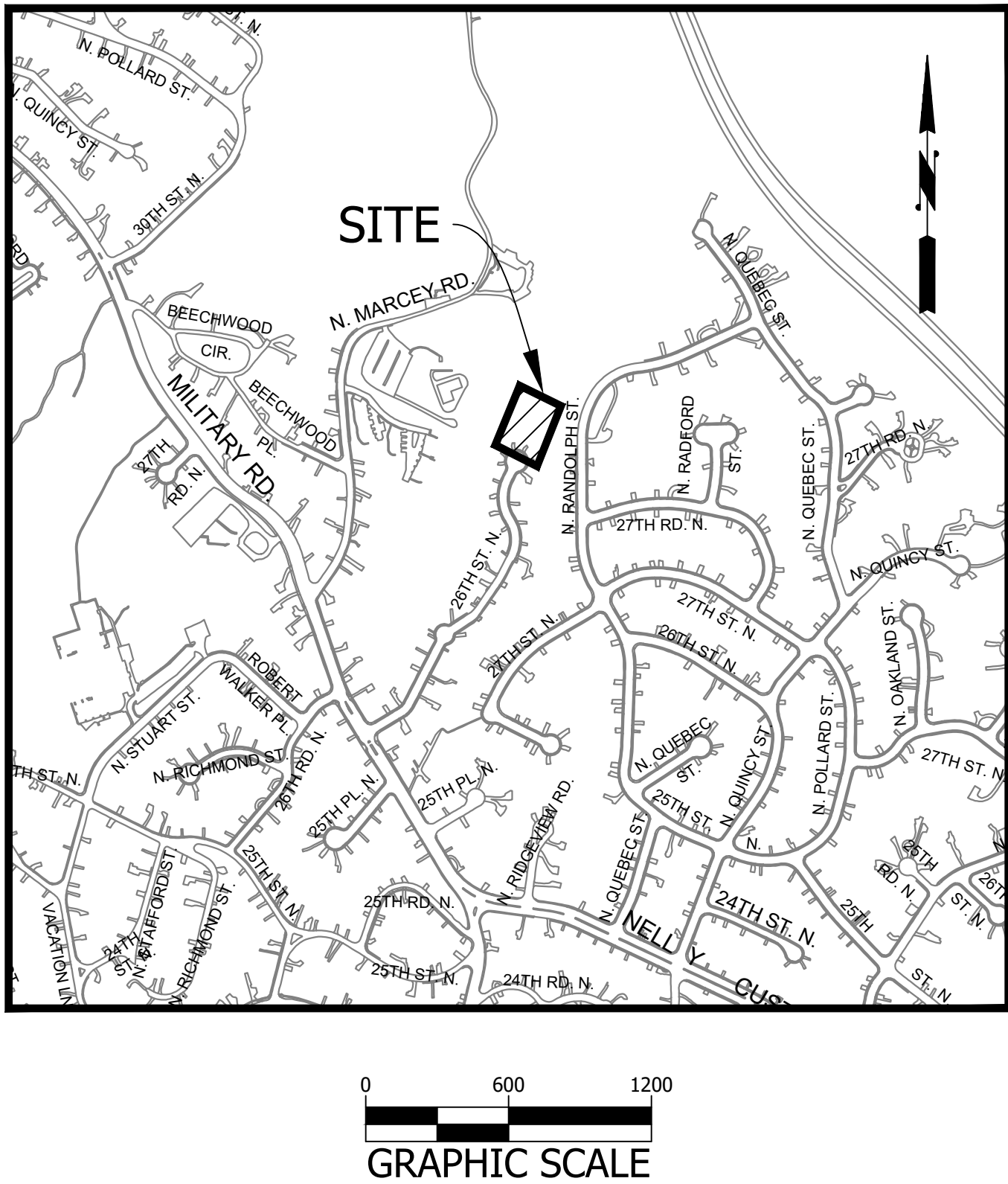
ENGINEER
DEPARTMENT OF
ENVIRONMENTAL SERVICES

FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629 FAX: 703.228.3606
WWW.ARLINGTONVA.US

OWNER
DES/OD/WSS

CONTRACTOR
TO BE DETERMINED

LOCATION MAP



CONSTRUCTION DRAWINGS FOR:
26TH STREET N OUTFALL REPAIR
3837 26TH STREET N
PROJECT NUMBER: S59D

GENERAL NOTES:

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS, AND WHERE APPLICABLE THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS. THE LATEST EDITIONS OF EACH RELEVANT MANUAL SHALL BE USED.
- ALL CONSTRUCTION AND WORK ACTIVITIES SHALL COMPLY WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ALL OTHER RELEVANT WORK SAFETY REQUIREMENTS, LATEST EDITIONS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE APPROVED PLANS.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY". PRIVATE WATER, SEWER AND GAS LATERALS WILL NOT BE MARKED BY MISS UTILITY OR THE COUNTY. THE CONTRACTOR SHALL LOCATE AND PROTECT THESE SERVICES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL RETAIN A PROFESSIONAL LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA TO PROVIDE ALL NECESSARY CONSTRUCTION LAYOUTS AND ESTABLISH ALL CONTROL LINES, GRADES, AND ELEVATION DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL CUT SHEETS FOR REVIEW, PER THE SPECIFICATIONS. THE COST OF ALL NECESSARY SURVEYING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND, UNLESS OTHERWISE SPECIFIED, THE COST SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE RECORDS AND SHALL BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY REACHES IN PROXIMITY TO EXISTING UTILITIES, THE TRENCH(ES) SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK OR TEST PITS SHALL BE MADE TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY TO ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE AS DIRECTED BY OFFICER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
- EXISTING MANHOLE FRAMES, COVERS, VALVE BOXES, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO THE FINAL GRADE OR REPLACED, AS NECESSARY. UNLESS OTHERWISE SPECIFIED, THE COST FOR THIS SHALL BE CONSIDERED INCIDENTAL TO THE WORK, AND SHALL BE INCORPORATED INTO THE COSTS FOR RELEVANT ITEMS.
- THE CONTRACTOR SHALL PROVIDE ADA COMPLIANT ACCESS THROUGH OR AROUND THE SITE AT ALL TIMES AND SHALL ENSURE THE SAFETY OF ALL THOSE PASSING THROUGH OR ADJACENT TO THE SITE.
- ALL SIDEWALK AND CURB AND GUTTER DEMOLITION SHALL BEGIN AND END AT THE CONSTRUCTION JOINT NEAREST TO THE DEPICTED DEMOLITION EXTENTS WITH A NEAT SAWCUT LINE TO FULL DEPTH OF PAVEMENT SECTION.

STORMWATER AND ENVIRONMENTAL PROTECTION

- THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES AT THE SITE ASSOCIATED WITH CONSTRUCTION ACTIVITIES, TO INCLUDE STORAGE OF EQUIPMENT AND OR MATERIALS, ACCESS TO THE WORK, FORMWORK, ETC. TO WITHIN THE DESIGNATED LIMITS OF DISTURBANCE (LOD).

TREE PROTECTION

- TREES SHALL BE PROTECTED PER THE REQUIREMENTS OF ARLINGTON PARKS & RECREATION STANDARD.

TRAFFIC CONTROL

- CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER AT LEAST 3 WORKING DAYS PRIOR TO DISTURBING ANY EXISTING, OR INSTALLING ANY NEW, TRAFFIC SIGNS, SIGNALS, OR OTHER TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PREMARK THE LAYOUT OF ANY PERMANENT TRAFFIC CONTROL STRIPING, INDICATING THE PROPOSED LOCATION AND TYPE OF MARKING TO BE INSTALLED. THE PREMARKING MAY CONSIST OF TYPE D TAPE, CHALK, OR LUMBER CRAYONS. THE CONTRACTOR SHALL ALLOW 3 WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PREMARKINGS PRIOR TO PLACING THE PERMANENT MARKINGS.
- THE CONTRACTOR SHALL SUBMIT ANY REQUESTS FOR TEMPORARY "NO PARKING" RESTRICTIONS TO THE PROJECT OFFICER AT LEAST 5 BUSINESS DAYS PRIOR TO THE DESIRED ONSET OF RESTRICTIONS. PRIOR TO A REQUEST FOR THE REMOVAL OF ACCESS TO ANY ADA PARKING SPACE THE CONTRACTOR MUST HAVE MADE PROVISION FOR ALTERNATIVE ADA PARKING AS INDICATED ON THE APPROVED PLAN OR AS DIRECTED BY THE PROJECT OFFICER.
- WHEN THE APPROVED PLAN CALLS FOR THE REMOVAL OF ANY PARKING METER THE CONTRACTOR MUST MAKE A REQUEST TO THE PROJECT OFFICER AT LEAST ONE WEEK IN ADVANCE OF THE DESIRED REMOVAL. THE PROJECT OFFICER WILL THEN COORDINATE THE PARKING METER REMOVAL WITH TRAFFIC ENGINEERING AND OPERATIONS.
- THE CONTRACTOR SHALL PRESERVE ALL BUS STOPS, INCLUDING MAINTAINING ADEQUATE ACCESSIBILITY THROUGH AND ADJACENT TO THE CONSTRUCTION FOR BUSES AND THEIR PASSENGERS. THE CONTRACTOR SHALL NOT CLOSE, RELOCATE, OR OTHERWISE MODIFY A BUS STOP WITHOUT PRIOR REQUEST OF THE PROJECT OFFICER. ANY RELOCATION OR CLOSURE OF A BUS STOP SHALL REQUIRE AT LEAST FOUR WEEKS ADVANCE NOTICE FOR COORDINATION WITH THE COUNTY'S BUS STOP COORDINATOR - 703-228-3049.
- WHEN CONDITIONS WARRANT DUE TO TRAFFIC VOLUMES, PATTERNS, OR SPECIAL EVENTS, THE COUNTY MAY SUSPEND OR OTHERWISE DIRECT THE CONTRACTOR'S ACTIVITIES TO PROTECT THE PUBLIC AND OR THE COUNTY'S TRANSPORTATION NETWORK.

WATER DISTRIBUTION, STORM AND SANITARY SEWER SYSTEMS

- UNLESS OTHERWISE DIRECTED, CONTRACTORS ARE EXPRESSLY PROHIBITED FROM OPERATING ANY WATER VALVES OR APPURTENANCES. CONTRACTORS SHALL SUBMIT ALL REQUESTS FOR VALVE OPERATIONS TO THE PROJECT OFFICER AT LEAST 1 WEEK IN ADVANCE OF THE REQUIRED OPERATION.
- IN THE EVENT OF A WATER OR SEWER EMERGENCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY'S WATER CONTROL CENTER AT 703-228-6555 AND THE PROJECT OFFICER.
- THE CONTRACTOR SHALL COORDINATE ALL UTILITY SHUTOFFS, DISCONNECTS, AND/OR ABANDONMENT WITH UTILITY OWNER AND PROJECT OFFICER AT LEAST 1 WEEK IN ADVANCE OF THE REQUIRED INTERRUPTION.

FIRE DEPARTMENT NOTES:

- ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 508.5.4 AND 508.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING FIRE APPARATUS ACCESS ROADS (FIRE LANES) SHALL BE KEPT CLEAR OF OBSTRUCTIONS IN ACCORDANCE WITH SECTION 503.4 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE. ACCESS TO CONSTRUCTION SITES SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH SECTION 1410 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
- IN THE EVENT THAT EXISTING FIRE DEPARTMENT CONNECTIONS OR FIRE APPARATUS ACCESS ROADS (FIRE LANES) MUST BE OBSTRUCTED TO FACILITATE CONSTRUCTION ACTIVITIES, CONTACT THE ARLINGTON COUNTY FIRE DEPARTMENT FIRE PREVENTION OFFICE AT 703-228-4644 TO COORDINATE REVIEW AND APPROVAL OF TEMPORARY FIRE DEPARTMENT CONNECTIONS AND/OR FIRE APPARATUS ACCESS ROADS PRIOR TO CREATING THE OBSTRUCTION.

SHEET LIST

SHEET ID	SHEET TITLES
C000.1	COVER SHEET
C000.1	COVER SHEET
C006.1	LEGEND
C011.1	EXISTING CONDITIONS PLAN
C021.1	DEMOLITION PLAN
C031.1	EROSION AND SEDIMENT CONTROL PLAN
C032.1	EROSION AND SEDIMENT CONTROL NOTES
C032.1	EROSION AND SEDIMENT CONTROL NOTES & DETAILS
C032.2	EROSION AND SEDIMENT CONTROL DETAILS - 1
C032.3	EROSION AND SEDIMENT CONTROL DETAILS - 2
C032.4	EROSION AND SEDIMENT CONTROL DETAILS - 3
C035.1	STORMWATER POLLUTION PREVENTION PLAN - 1
C035.2	STORMWATER POLLUTION PREVENTION PLAN
C035.2	STORMWATER POLLUTION PREVENTION PLAN - 2
C035.3	STORMWATER POLLUTION PREVENTION PLAN - 3
C036.1	WATER QUALITY IMPACT ASSESSMENT
C041.1	PLAN AND PROFILE
C044.1	OUTFALL CROSS SECTIONS AND DETAILS - 1
C044.2	OUTFALL CROSS SECTIONS AND DETAILS - 2
C045.1	GEOMETRIC CONTROL PLAN
C071.1	STORM SEWER DRAINAGE DIVIDE
C075.1	STORM COMPUTATIONS
C091.1	LANDSCAPING PLAN
C093.1	TREE INVENTORY - SHEET 1 OF 2
C093.2	TREE INVENTORY - SHEET 2 OF 2

PROJECT NOTE:

THIS PLAN DOES NOT REQUIRE A MAINTENANCE OF TRAFFIC (MOT) PLAN.

SWM#

SWM# SWM 20-0211

AADT

1,500 - 26th Street North (From N George Mason Dr) - 2019 - VDOT

STREET CLASSIFICATION

26TH STREET N - NEIGHBORHOOD MINOR
N RANDOLPH STREET - NEIGHBORHOOD PRINCIPAL

POSTED SPEED

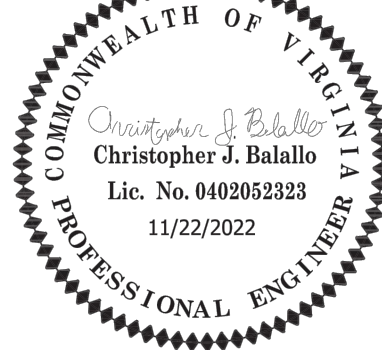
26TH STREET N - 25 MPH
N RANDOLPH STREET - 25 MPH

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

COPYRIGHT © 2021 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>[Signature]</i>	1/6/23
CONSTRUCTION MANAGEMENT SUPERVISOR	1/9/23
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thumber</i> PROJECT MANAGER	2/27/2023

REVISIONS	DATE

26TH STREET N OUTFALL REPAIR

S59D

3837 26TH STREET N

COVER SHEET































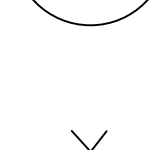













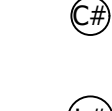



DESIGNED: MM
DRAWN: MM
CHECKED: CB

PLOTTED: MARCH 1 2023

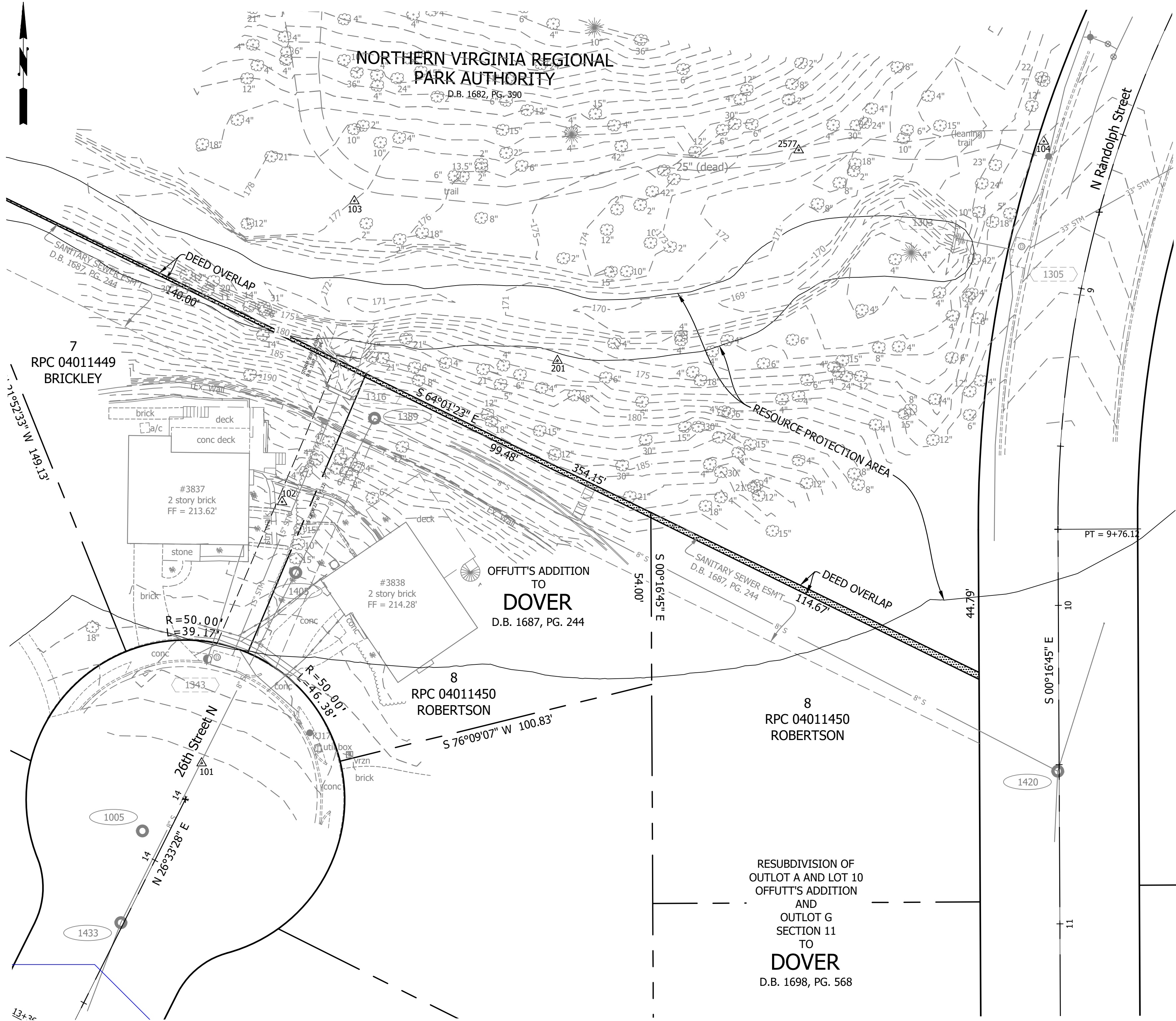
SCALE:

AS SHOWN

C000.1

SYMBOL LEGEND			
EXISTING FEATURE		PROPOSED FEATURE	
EX CABLE PEDESTAL			
EX ELECTRIC BOX			
EX FIRE HYDRANT		PROP FIRE HYDRANT	
EX GAS VALVE		PROP GAS VALVE	
EX GROUND LIGHT			
EX GUY WIRES			
EX IRON PIPE OR PIN			
EX LIGHT POLE		PROP LIGHT POLE	
EX MAILBOX			
EX MONUMENT			
EX PARKING METER			
EX PAY STATION		PROP PAY STATION	
EX SANITARY MANHOLE		PROP SANITARY MANHOLE	
EX STORM BASIN		PROP STORM CATCH BASIN (TO SCALE)	
EX STORM MANHOLE		PROP STORM MANHOLE	
EX TELEPHONE PEDESTAL			
EX TRAFFIC CONTROL BOX			
EX TRAFFIC SIGN		PROP TRAFFIC SIGN	
EX TRASH CAN		PROP TRASH CAN	
EX TRAVERSE			
EX TREES, WOODED AREA		PROPOSED TREE	
		PROPOSED TREE REMOVAL	
EX UTILITY MANHOLE TYPE INDICATED ELEC, TELE, ETC			
EX UTILITY POLE		PROP UTILITY POLE	
EX WATER MANHOLE		PROP WATER MANHOLE	
EX WATER METER		PROP WATER METER	
EX WATER VALVE		PROP WATER VALVE	
EX YARD INLET		PROP YARD INLET (TO SCALE)	
EX BENCHMARK		CONSTRUCTION NOTES (LEADER TO AREA AFFECTED)	
		DETAIL NUMBER (SEE NOTE)	
NORTH ARROW		CURVE NUMBER (SEE CURVE TABLE)	
		LINE NUMBER (SEE LINE TABLE)	
		TEST HOLE	

26TH STREET N OUTFALL REPAIR S59D



- NOTES:**
- UNDERGROUND UTILITIES WERE DESIGNATED BY MID-ATLANTIC UTILITY LOCATING ON 09/16/2019.
 - WATER LINE & SANITARY SEWER PIPE SIZES ARE SHOWN PER ARLINGTON COUNTY RECORDS.
 - THE UNIT OF MEASURE USED FOR THIS SURVEY IS THE U.S. SURVEY FOOT.
 - THE HORIZONTAL AND VERTICAL CONTROL FOR THIS PROJECT IS REFERENCED TO EXISTING PROJECT SE50 - 7008.

CONTROL DATA:

POINT NO.	NORTHING(Y)	EASTING(X)	ELEV(Z)	DESCRIPTION
100	7016893.7785	11879096.1686	247.91	PK NAIL
101	7017146.3489	11879150.1644	217.21	PK NAIL
102	7017228.3768	11879175.4190	206.67	PIPE & CAP
103	7017322.6993	11879198.3793	177.30	PIPE & CAP
104	7017341.3903	11879414.8787	174.28	PIPE & CAP
2577	7017338.8228	11879337.6901	172.93	NAIL

SANITARY TABLE

#1005
TOP = 219.53
C/L INVERT = 202.96
#1389
TOP = 190.56
C/L INVERT = 181.44
#1405
TOP = 212.38
C/L INVERT = 199.06
#1420
TOP = 184.55
C/L INVERT = 165.28
#1433
TOP = 221.87
C/L INVERT = 205.30
#1459
TOP = 237.00
C/L INVERT = 224.13

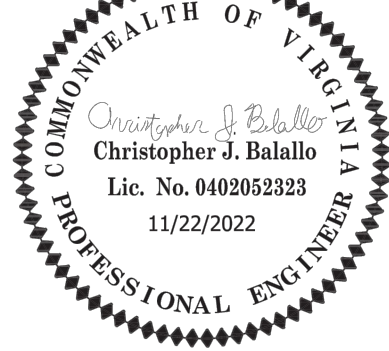
STORM TABLE

#1294
TOP = 174.01
33" RCP IN = 159.39 (1305)
48" RCP IN = 163.21 (1349)
48" RCP OUT = 159.33 (1256)
#1303
33" RCP INVERT = 164.76 (1305)
#1305
TOP = 175.94
33" RCP IN = 163.14 (1303)
33" RCP OUT = 162.90 (1294)
#1316
15" CMP INVERT = 183.11 (1343)
#1343
TOP = 214.60
15" CMP OUT = 209.98 (1316)

GENERAL SURVEY NOTES:

- THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF THE COUNTY SURVEY SECTION FROM AN ACTUAL GROUND SURVEY; THE IMAGE AND/OR ORIGINAL DATA WAS OBTAINED FROM 06/2019 TO 09/2019; AND THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
- HORIZONTAL DATUM: VIRGINIA COORDINATE SYSTEM 1983.
- VERTICAL DATUM: NORTH AMERICA VERTICAL DATUM 1988.
- CONTOUR INTERVAL: 1'
- BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM EXISTING LAND RECORDS AND DOES NOT REPRESENT A FIELD RUN BOUNDARY SURVEY.

SEAL



APPROVALS

APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>[Signature]</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/6/23
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1/9/23
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thumber</i> PROJECT MANAGER	2/27/2023

REVISIONS

REVISIONS	DATE

26TH STREET N OUTFALL REPAIR
S59D

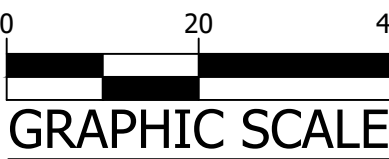
3837 26TH STREET N

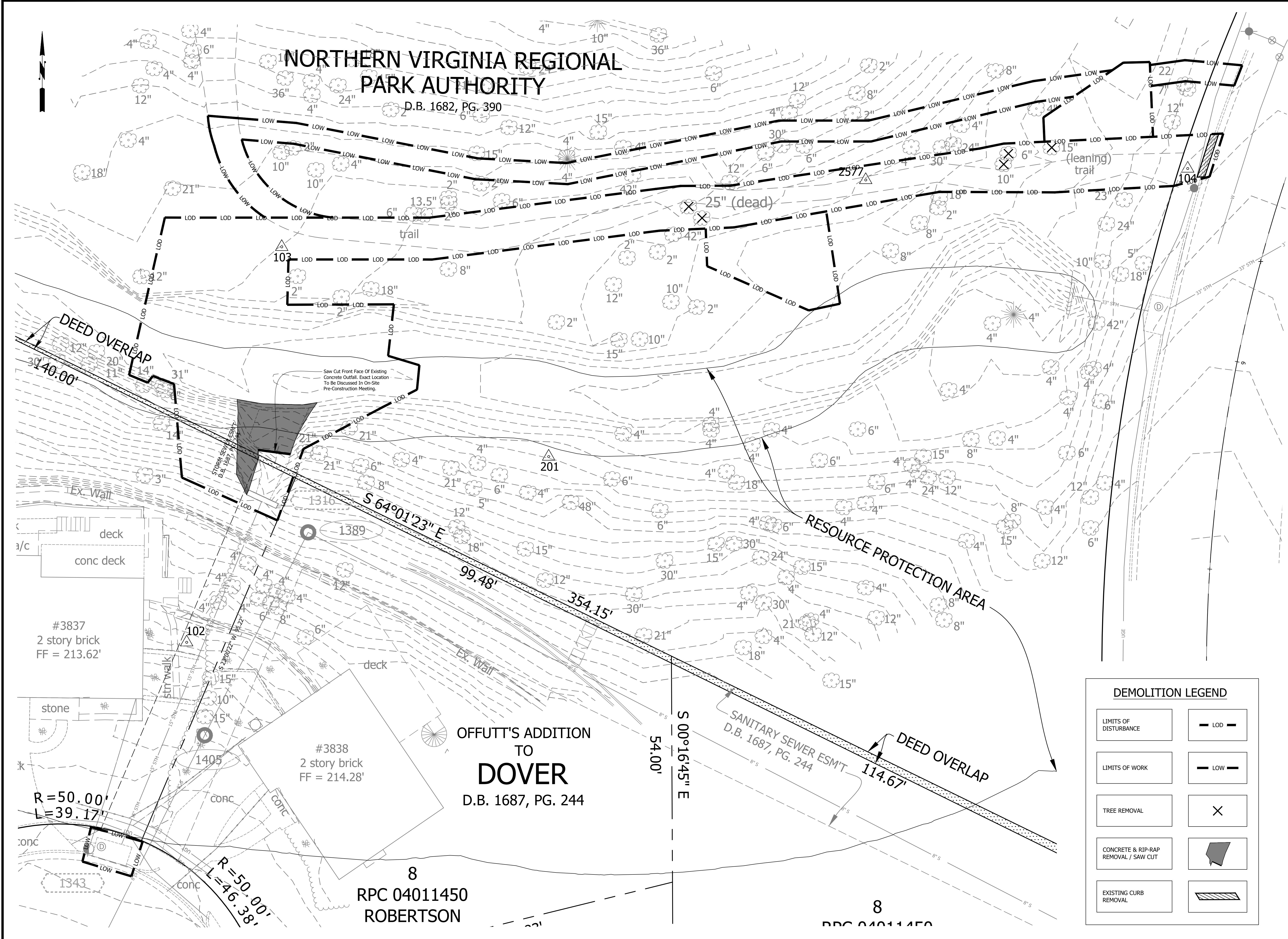
EXISTING CONDITIONS PLAN

DESIGNED: MM
DRAWN: MM
CHECKED: CB

PLOTTED: MARCH 1 2023

SCALE:





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

COPYRIGHT © 2021 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL

APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>[Signature]</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/6/23
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1/9/23
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thumber</i> PROJECT MANAGER	2/27/2023

REVISIONS	DATE

26TH STREET N OUTFALL REPAIR
S59D
3837 26TH STREET N

DEMOLITION PLAN

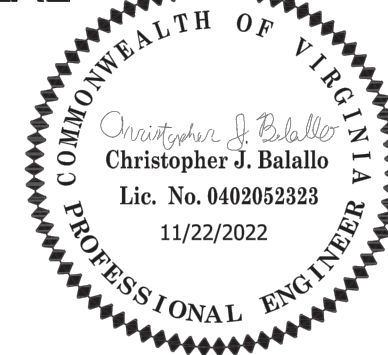
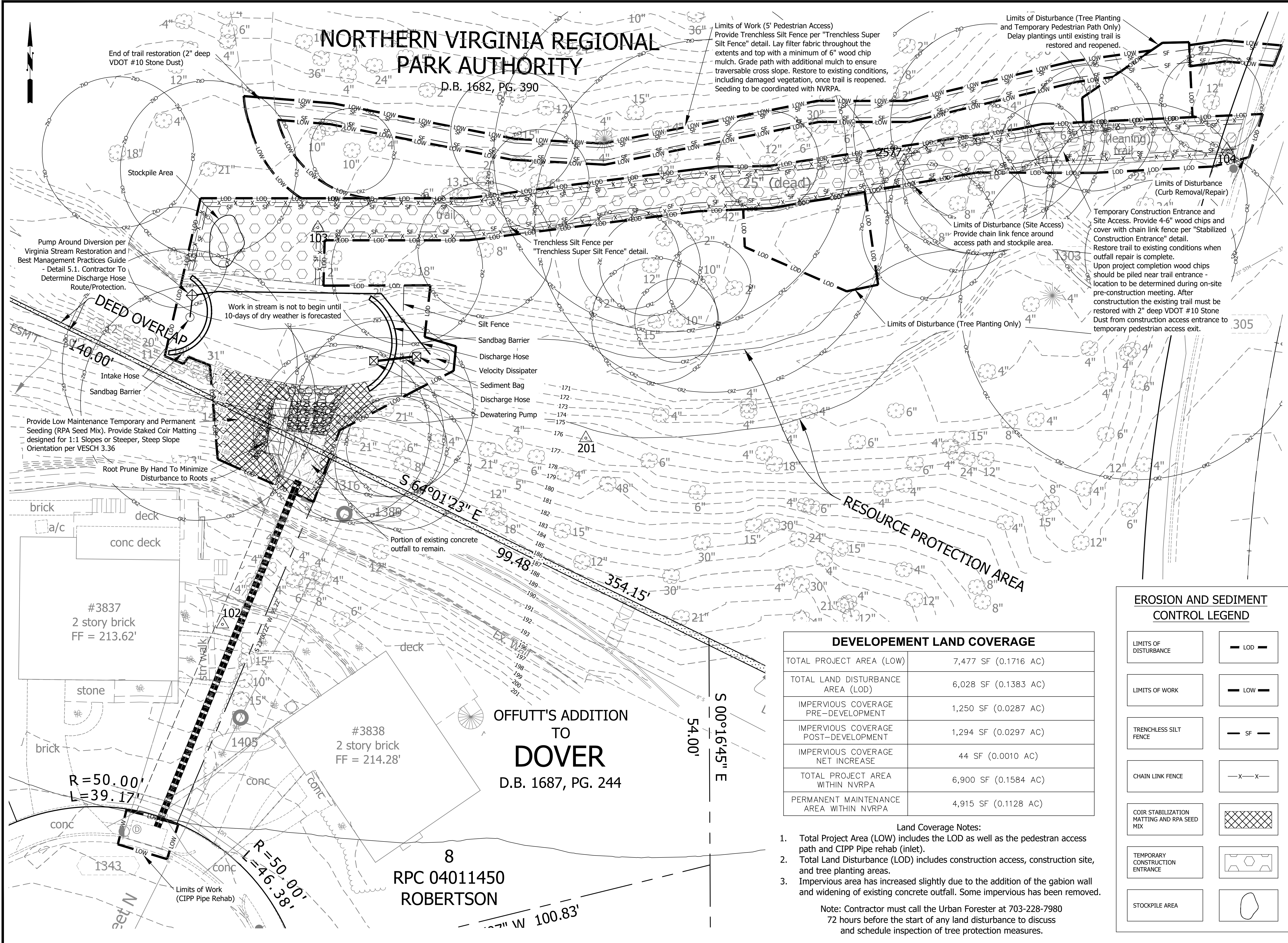
DESIGNED: MM
DRAWN: MM
CHECKED: CB

PLOTTED: MARCH 1 2023

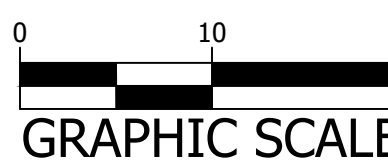
SCALE:

GRAPHIC SCALE

C021.1



Amey Pflaum	12/19/22
QUALITY CONTROL ENGINEER	
1/6/23	
CONSTRUCTION MANAGEMENT SUPERVISOR	
1/9/23	
WATER, SEWER, STREETS BUREAU CHIEF	
Dennis M. Leach	1/11/23
TRANSPORTATION DIRECTOR	
Elizabeth Thumber	2/27/2023
PROJECT MANAGER	



EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:

IT HAS COME TO THE COUNTIES ATTENTION THAT THE EXISTING OUTFALL IS EXPERIENCING EXTREME EROSION AND NEEDS REPAIRED. UPON INITIAL ANALYSIS IT WAS DETERMINED THAT THE EXISTING 15" CMP IS ALSO APPROACHING FAILURE AND NEEDS TO BE REHABILITATED OR REPLACED. THE PROJECT IS LOCATED WITHIN POTOMAC OVERLOOK REGIONAL PARK, BEHIND 3837 26TH STREET N.

EXISTING SITE CONDITIONS:

THE PROJECT IS LOCATED WITHIN POTOMAC OVERLOOK REGIONAL PARK, BEHIND 3837 26TH STREET N. CONSTRUCTION ACCESS WILL BE FROM THE BLUE JAY WAY TRAIL ENTRANCE OFF OF N RANDOLPH STREET.

ADJACENT PROPERTIES:

TWO PROPERTIES, 3837 AND 3838 26TH STREET N, HAVE EXISTING WALL STRUCTURES LOCATED JUST UPSTREAM OF THE EXISTING OUTFALL. THESE WALLS MUST REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION TO ENSURE REPAIR WILL NOT BE NECESSARY.

OFF-SITE AREAS:

THE CONTRACTOR WILL ACCESS THE SITE VIA BLUE JAY WAY TRAIL.

CRITICAL AREAS:

THE SURROUNDING GRADE WITHIN THE LOD IS MADE UP OF 1:1 AND 2:1 SLOPES AND MUST BE STABILIZED DURING AND AFTER CONSTRUCTION. TEMPORARY/PERMANENT SEEDING AS WELL AS STABILIZATION MATTING MUST BE PROVIDED.

EROSION AND SEDIMENT CONTROL MEASURES:

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA INCLUDE STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, TREE PROTECTION FENCE, TEMPORARY/PERMANENT SEEDING, AND PUMP AROUND DIVERSION.

PERMANENT STABILIZATION:

ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH GRASS, MULCH OR SOD. SEE THE PROPOSED PLANS FOR ADDITIONAL INFORMATION.

STORMWATER RUNOFF CONSIDERATIONS:

PROJECT AREA (LIMITS OF WORK).....= 7,477 SF (0.1716 AC)
LIMITS OF DISTURBANCE.....= 6,027 SF (0.1383 AC)
PRE-IMPROVEMENT IMPERVIOUS AREA.....= 1,250 SF (0.0287 AC)
POST-IMPROVEMENT IMPERVIOUS AREA.....= 1,294 SF (0.0287 AC)
INCREASED IMPERVIOUS AREA.....= 44 SF (0.0010 AC)

SOILS INFORMATION:

THE FOLLOWING SOILS ARE FOUND ON SITE (SEE SOILS MAP TO THE RIGHT)

SOIL#: SOIL NAME: HYDROLOGIC GROUP: ERODABILITY:

6D GLENELG-MANOR COMPLEX B SEVERE

FLOODPLAIN AND RESOURCE PROTECTION AREA (RPA):

FLOODPLAIN AND RESOURCE PROTECTION AREAS ARE DELINEATED ON THE PLAN.

FLOOD ZONE AE PER FEMA MAP 51013C0036C EFF. 8/19/2013.

EROSION & SEDIMENT CONTROL PROJECT PHASING

1. PHASE I:
- a. PRE-CONSTRUCTION MEETING WITH THE PROJECT OFFICER, CONTRACTOR, AND COUNTY INSPECTOR.

b. INSTALL THE TEMPORARY CONSTRUCTION ENTRANCE IN THE LOCATION SHOWN ON THE E&S PLAN. MUD AND DEBRIS SHALL BE WASHED FROM ALL TRUCKS EXITING THE SITE.

c. INSTALL PERIMETER TREE DEMARCATION FENCING NORTH OF EXISTING CREEK IN THE FORM OF CHAIN LINK FENCE AS SHOWN ON E&S PLAN.

d. PERFORM INITIAL PERIMETER CLEARING TO INSTALL REMAINDER OF PERIMETER CONTROLS NORTH OF CREEK.

e. IF CONSTRUCTION WILL EXTEND INTO POOL SEASON INSTALL TEMPORARY PEDESTRIAN ACCESS PATH AS SHOWN ON E&S PLAN. PRIOR TO PATH INSTALLATION NOTE ALL VEGETATION THAT WILL BE DAMAGED. DAMAGED VEGETATION MUST BE REPLACED AT END OF CONSTRUCTION. URBAN FORESTER CAN ASSIST WITH IDENTIFICATION.

f. INSTALL ACCESS PATH AND PUMP AROUND DIVERSION.

g. INSTALL REMAINING SEDIMENT CONTROLS SOUTH OF CREEK.

h. CONTACT ARLINGTON COUNTY PROJECT OFFICER FOR A PERIMETER INSPECTION PRIOR TO CLEARING THE REMAINDER OF THE SITE IN ORDER TO OBTAIN PHASE II GRADING PERMIT.

i. CLEAR THE SITE TO THE LIMITS AS SHOWN ON THE CONSTRUCTION PLANS.
2. PHASE II:
- a. DEMOLISH EXISTING CONCRETE AND RIP-RAP AS SHOWN ON DEMOLITION PLAN

b. BEGIN CONSTRUCTION OF THE PROPOSED CONCRETE END SECTION WIDENING, GABION WALL, AND RIP-RAP CHANNEL.

c. PERFORM CIPP REHABILITATION ONCE END SECTION AND GABION WALL AND RIP-RAP ARE STABILIZED.

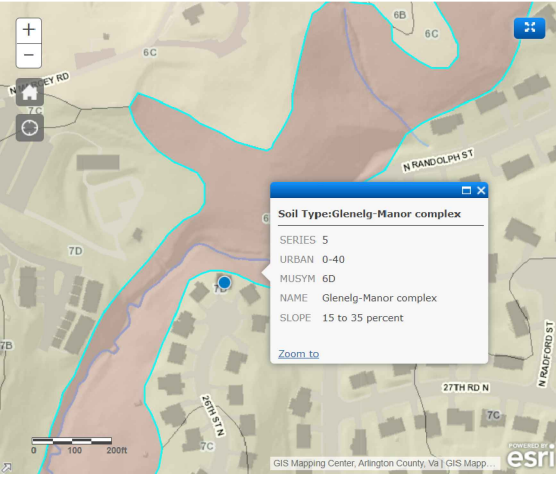
d. REMOVE SITE ACCESS PATH MULCH AND PILE MULCH NEAR TRAIL TRAIL ENTRANCE.

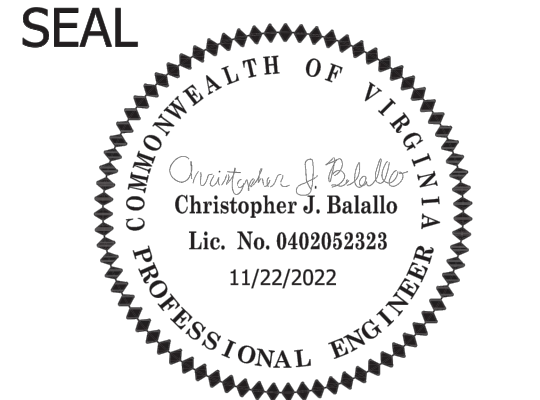
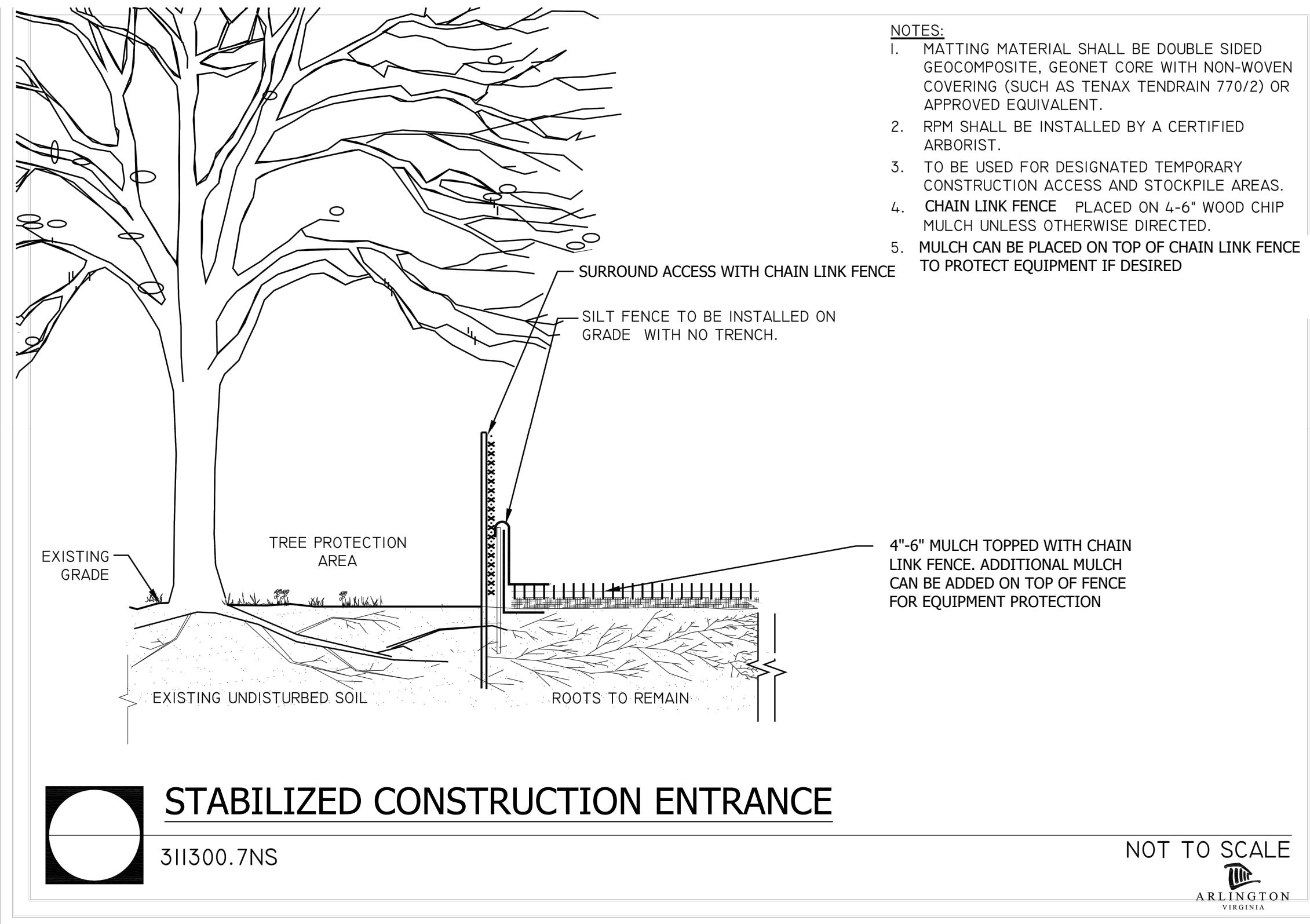
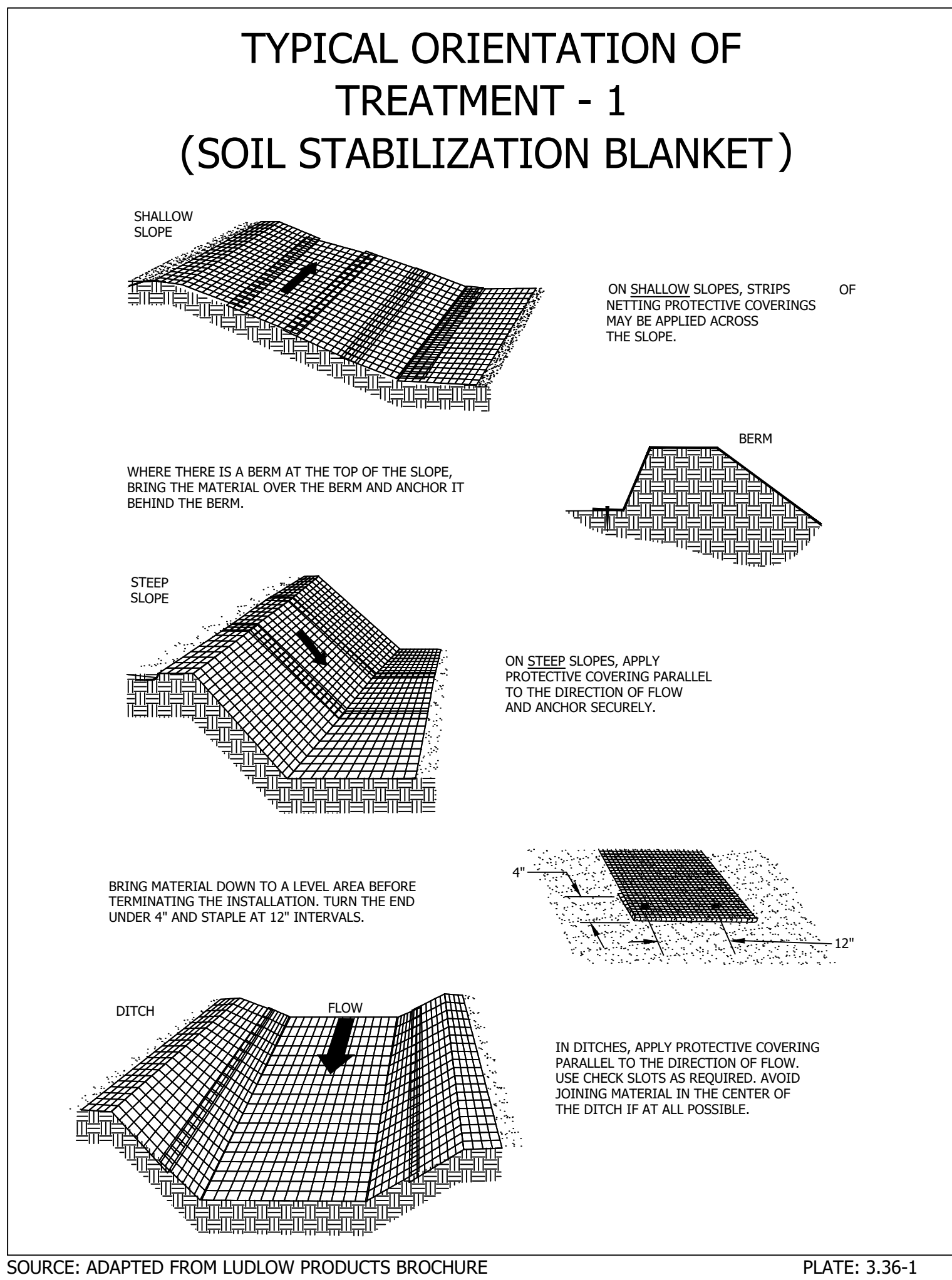
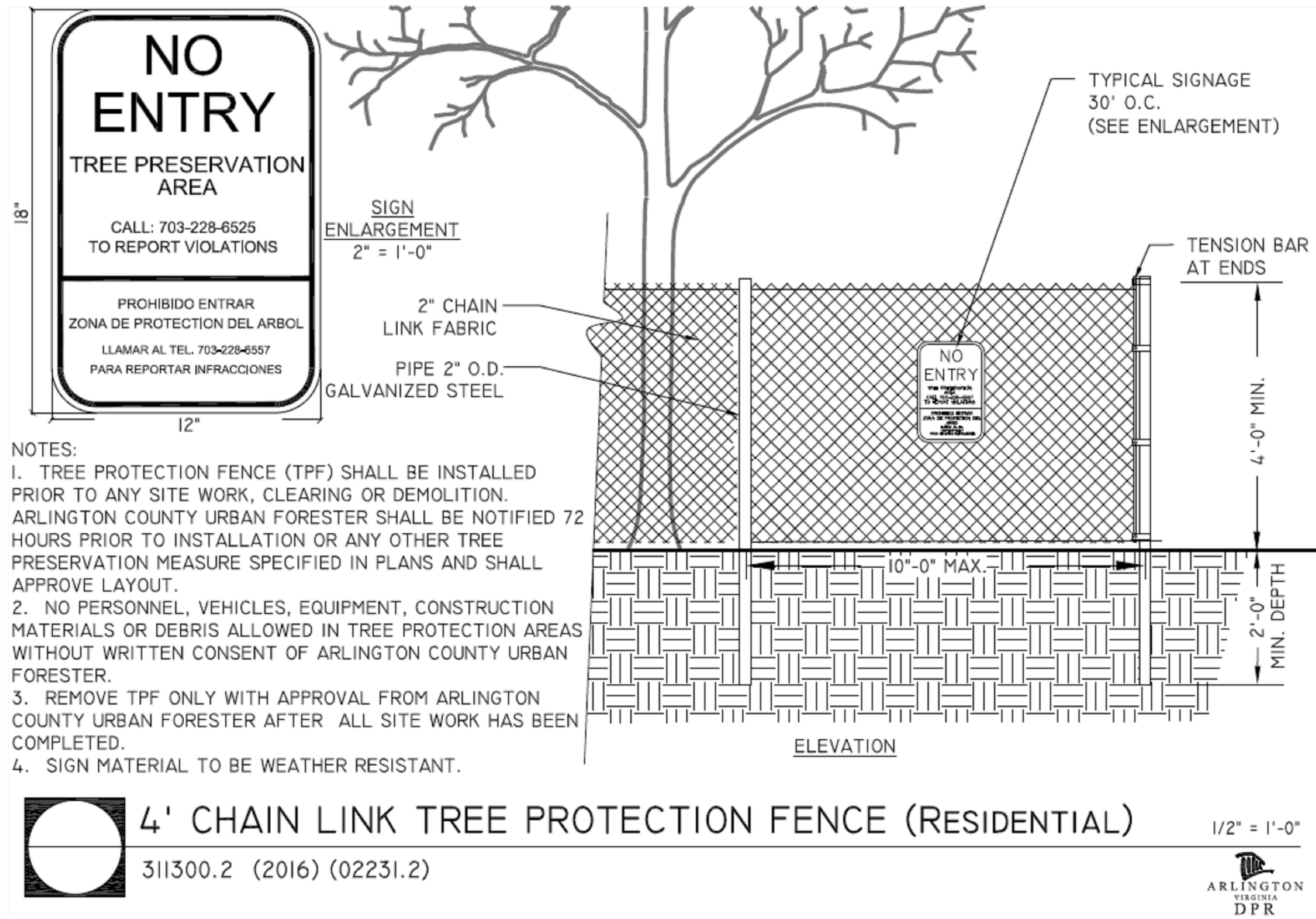
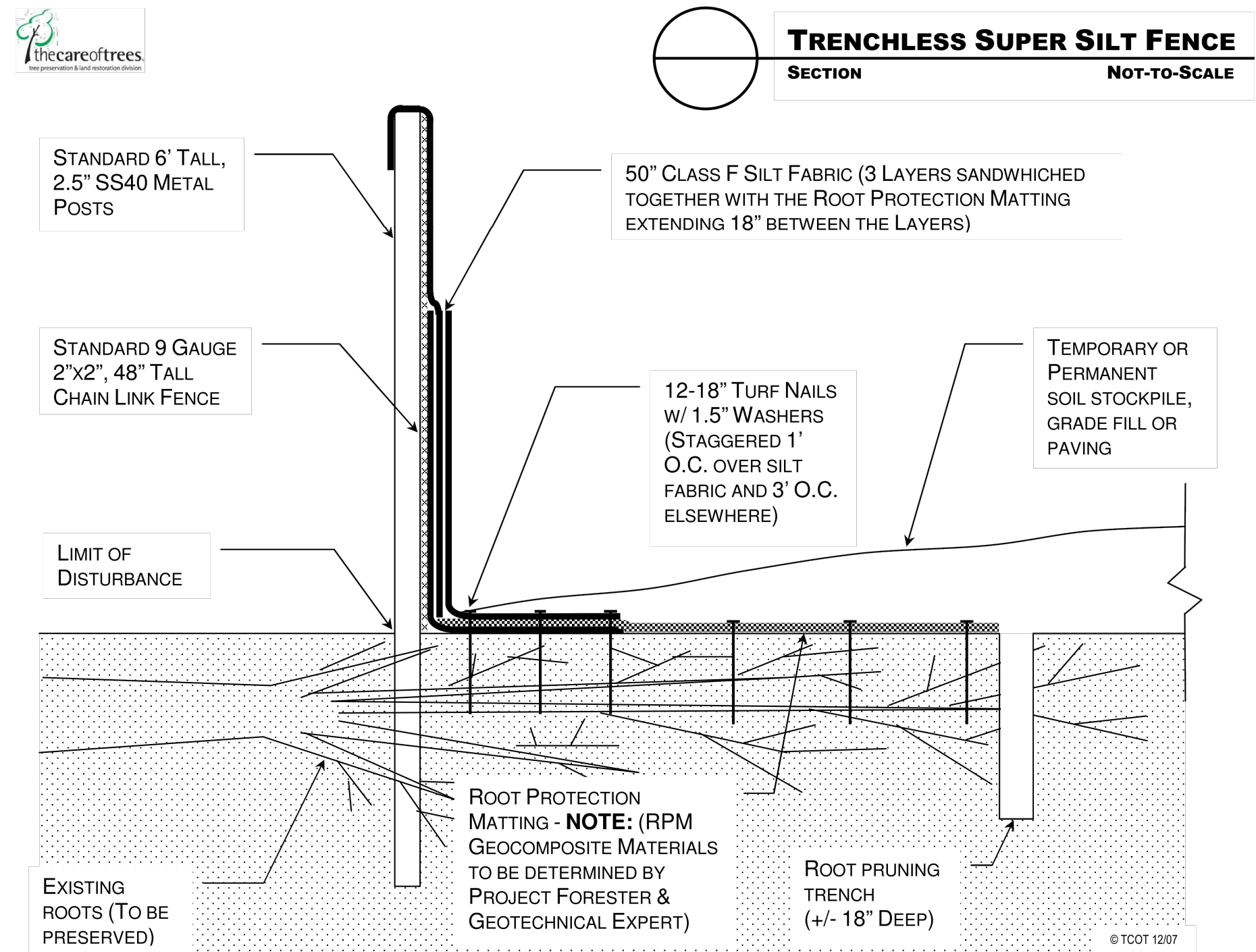
e. RESTORE TRAIL WITH 2" DEEP VDOT #10 STONE PER E&S PLAN.

f. ONCE THE OUTFALL AND TRAIL WORK IS COMPLETE AND HEAVY EQUIPMENT IS HAS VACATED COMMENCE CONSTRUCTION OF CURB & GUTTER.

g. ONCE ALL EQUIPMENT AND MATERIALS ARE REMOVED FROM TRAIL, REOPEN TRAIL FOR PEDESTRIANS AND REMOVE TEMPORARY PEDESTRIAN ACCESS PATH. MULCH SHOULD BE PILED AT TRAIL ENTRANCE, AND ALL DAMAGED VEGETATION MUST BE REPLACED.

h. THE CONTROL MEASURES AND ACCESS PATH MAY NOT BE REMOVED UNTIL ALL OF THE DISTURBED AREAS HAVE BEEN STABILIZED AND ONLY AS APPROVED AND DIRECTED BY THE INSPECTOR. ONCE





APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>[Signature]</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/6/23
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1/9/23
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thumber</i> PROJECT MANAGER	2/27/2023

REVISIONS	DATE

26TH STREET N OUTFALL REPAIR
S59D

3837 26TH STREET N

EROSION AND SEDIMENT CONTROL
DETAILS - 1

DESIGNED: MM
DRAWN: MM
CHECKED: CB

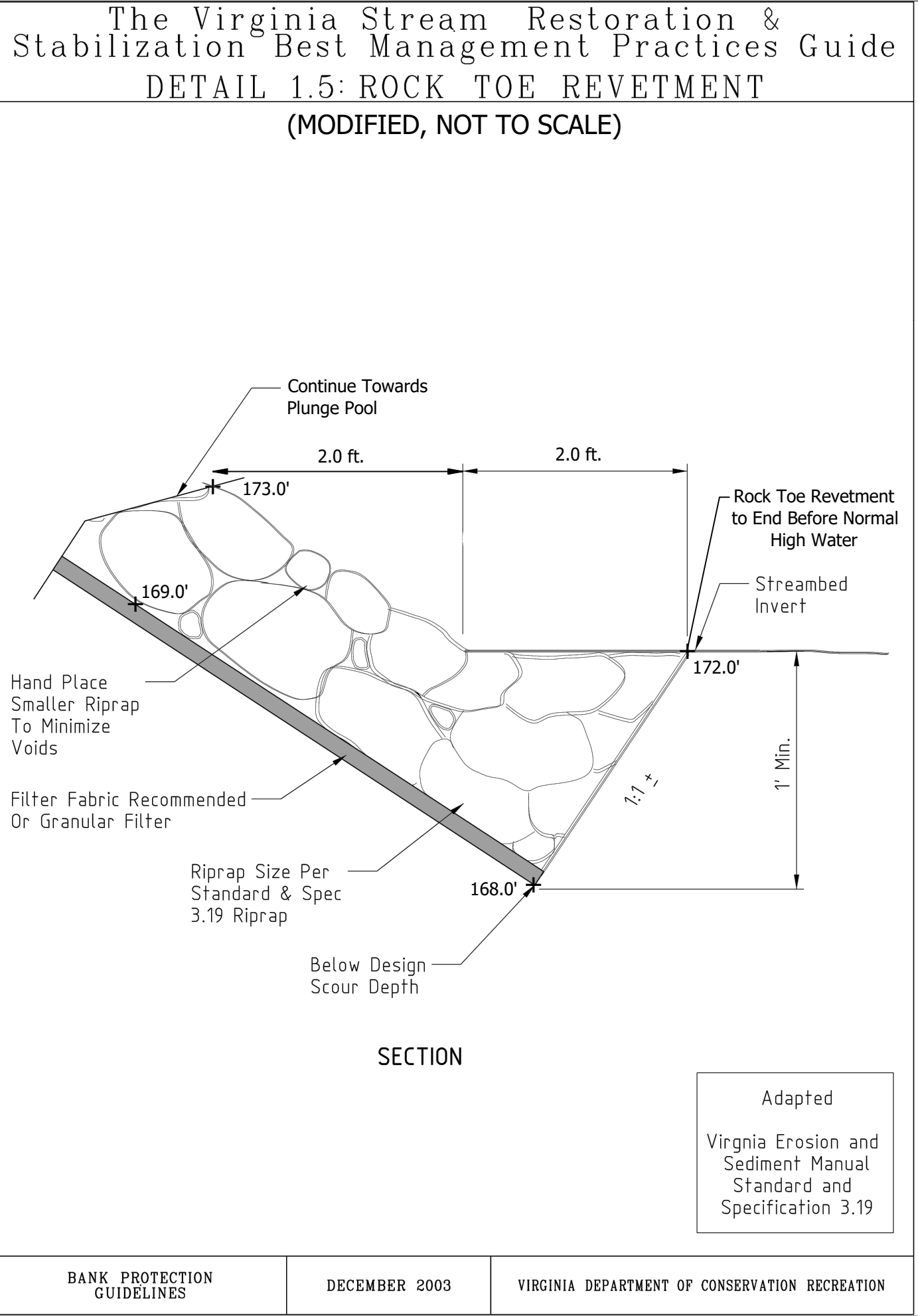
PLOTTED: MARCH 1 2023

SCALE:

AS SHOWN

PLATE: 3.26-2

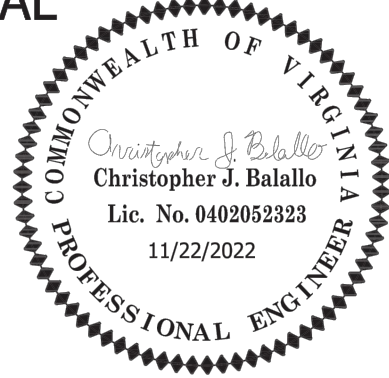




DEPARTMENT OF ENVIRONMENTAL SERVICES
FACILITIES & ENGINEERING DIVISION
ENGINEERING BUREAU
2100 CLARENDON BOULEVARD, SUITE 813
ARLINGTON, VA 22201
PHONE: 703.228.3629
FAX: 703.228.3606

COPYRIGHT © 2021 ARLINGTON COUNTY VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>[Signature]</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/6/23
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1/9/23
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thumber</i> PROJECT MANAGER	2/27/2023

REVISIONS	DATE

26TH STREET N OUTFALL REPAIR

S59D

3837 26TH STREET N

EROSION AND SEDIMENT CONTROL
DETAILS - 3

DESIGNED: MM
DRAWN: MM
CHECKED: CB

PLOTTED: MARCH 1 2023

SCALE:

AS SHOWN

STORMWATER POLLUTION PREVENTION PLAN
26TH Street N Outfall Repair

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
Arlington County Projects
(Linear Development / Stormwater Retrofit)

For Construction Activities At:

26th Street N Outfall Repair Project
@ 3837 & 3838 26th Street N
Arlington, VA 22207

Latitude: 38.905059 N (decimal degrees)

Longitude: -77.121758 W (decimal degrees)

Construction Activity Operator:

Sagres Construction
3680 Wheeler Ave, Suite 300
Alexandria, VA, 22304
703-924-7220
Fedra@sagresconstruction.com

SWPPP Preparation Date:

May 9, 2022

CERTIFICATION

"I certify under penalty of law that I have read and understand this document 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."

Operator Name: _____

Title: _____

Signature: _____

Date: _____

Arlington County SWPPP 12/2016

STORMWATER POLLUTION PREVENTION PLAN
26TH Street N Outfall Repair

1.0 SWPPP Documents Located Onsite & Available for Review

SWPPP Document Type Located Onsite & Available for Review?

Registration Statement ☐ Yes ☒ NA
Notice of Coverage Letter ☐ Yes ☒ NA
Construction General Permit ☒ Yes ☐ NA
Pollution Prevention Plan ☒ Yes ☐ NA
Erosion & Sediment Control Plan ☒ Yes ☐ NA
Stormwater Management Plan ☒ Yes ☐ NA
LDA Permit ☒ Yes ☐ NA

Required documents must be kept at a centralized location on the project site (i.e. in a mail box or other container)

2.0 Authorized Non-Stormwater Discharges

Type of Authorized Non-Stormwater Discharges Likely Present at Your Project Site?

Uncontaminated excavation dewatering ☒ Yes ☐ No
Landscape irrigation ☐ Yes ☒ No
Others (describe) ☐ Yes ☒ No

3.0 Pollution Prevention Awareness

Employees will be given a "walk through" of the site identifying areas of possible pollution and will be shown Erosion and Sediment Controls and Pollution Prevention Practices (identified in Sections 4.0 and 5.0 of this SWPPP) that are applicable to their assigned job duties. A refresher meeting and "walk through" will be conducted on an as needed basis.

4.0 Erosion & Sediment Controls

Select all that apply	Erosion & Sediment Control	Estimated Installation Date	Estimated Removal Date	Responsible Party (Name, Contact Phone Number)
<input checked="" type="checkbox"/>	Construction Entrance (Std. & Spec. 3.02)			
<input checked="" type="checkbox"/>	Silt Fence (Std. & Spec. 3.05)			
<input type="checkbox"/>	Culvert Inlet Protection (Std. & Spec. 3.08)			
<input checked="" type="checkbox"/>	Outlet Protection (Std. & Spec. 3.18)		NA	
<input checked="" type="checkbox"/>	Temporary Seeding (Std. & Spec. 3.31)	As required	NA	
<input checked="" type="checkbox"/>	Permanent Seeding (Std. & Spec. 3.32)		NA	
<input type="checkbox"/>	Sodding (Std. & Spec. 3.33)		NA	
<input type="checkbox"/>	Mulching (Std. & Spec. 3.35)		NA	
<input type="checkbox"/>	Safety Fence (Std. & Spec 3.01)			
<input checked="" type="checkbox"/>	Storm Drain Inlet Protection			

Arlington County SWPPP 12/2016

STORMWATER POLLUTION PREVENTION PLAN
26TH Street N Outfall Repair

<input type="checkbox"/>	(Std. & Spec 3.08 and/or Arlington County Std. & Spec from approved ESC plan)			
<input checked="" type="checkbox"/>	Dewatering (Std. & Spec 3.26 and/or Arlington County Std. & Spec from approved ESC plan)			
<input type="checkbox"/>	Turbidity Curtain (Std. & Spec 3.27 and/or Arlington County Std. & Spec from approved ESC plan)			
<input checked="" type="checkbox"/>	Tree Protection (Arlington County Std. & Spec from approved ESC plan)			
<input type="checkbox"/>	Stream Crossing / Cofferdams (Std. & Spec 3.25 or on plan)			
<input checked="" type="checkbox"/>	Pump Around System (detail on approved plan)			
<input type="checkbox"/>	Rip Rap (Std. & Spec. 3-19)			
<input checked="" type="checkbox"/>	Other(s) (Slope Stabilization, Permanent Lining)			

Pre-Storm Erosion and Sediment Control Checklist
The following actions shall be taken prior to storm events with predicted heavy and/or large volume rainfall to prevent sediment discharges from a construction site. A typical summer thunderstorm is an example of a storm event with predicted heavy and/or large volume rainfall.
☒ Perimeter controls (silt fence, hay bales, stone berms) used to prevent sediment from leaving the site shall be checked for undermining, holes, or deterioration and repaired/replaced if needed.
☒ Sediment that has accumulated against perimeter controls shall be removed if the depth exceeds more than 1/2 of the silt fence height.
☒ Exposed soil or slopes shall be covered with straw, tarps, plastic sheeting, or erosion control matting. Covering material shall be properly secured/anchored.
☒ Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting. The cover must be properly secured / anchored down to prevent it from being blown off and exposing materials to rain. Controls such as hay bales or booms should be placed along the perimeter of the stock pile (downhill side). Stockpiled materials should not obstruct flow along the curb line.
☒ Inlet protection controls shall be inspected to ensure they are installed per approved ESC plan, are functioning properly, and maintained as needed.

Arlington County SWPPP 12/2016

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

COPYRIGHT © 2021 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL

APPROVALS DATE

Amy Pflaum 12/19/22
QUALITY CONTROL ENGINEER
Chris Balallo 1/6/23
CONSTRUCTION MANAGEMENT SUPERVISOR
Chris Balallo 1/9/23
WATER, SEWER, STREETS BUREAU CHIEF
Dennis M. Leach 1/11/23
TRANSPORTATION DIRECTOR
Elizabeth Thumber 2/27/2023
PROJECT MANAGER

REVISIONS DATE

26TH STREET N OUTFALL REPAIR
S59D
3837 26TH STREET N
STORMWATER POLLUTION PREVENTION
PLAN - 1

DESIGNED: MM
DRAWN: MM
CHECKED: CB

PLOTTED: MARCH 1 2023

SCALE:

N/A

C035.1

26TH STREET N OUTFALL REPAIR S59D

STORMWATER POLLUTION PREVENTION PLAN	
7.0 Spill Prevention & Response	
Most spills can be cleaned up using a spill kit. Absorbent/oil dry, sealable containers, plastic bags, and shovels/brooms are suggested minimum spill response items that should be available at the project site.	
1 st Priority:	Protect all people
2 nd Priority:	Protect equipment and property
3 rd Priority:	Protect the environment
<ol style="list-style-type: none"> 1. Check for hazards (flammable material, noxious fumes, cause of spill) – if flammable liquid, turn off engines and nearby electrical equipment. <u>If serious hazards are present leave the area and call 911. LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.</u> 2. Ensure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person. 3. Stop the spill source. 4. Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers. 5. If possible, stop spill from spreading and/or entering storm drains (use absorbent or other materials as necessary). 6. If spilled material has entered a storm drain; contact Arlington County Fire Department and project manager. 7. Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials and do not flush area with water. 8. Properly dispose of cleanup materials and used absorbent material according to manufacturer specifications. 	
Emergency Contacts:	
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
Nights, Holidays & Weekends	
VA Dept. of Emergency Management	804-674-2400
24 Hour Reporting Service	
Spill kit on site: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Location(s) of spill kit: _____	

STORMWATER POLLUTION PREVENTION PLAN

8.0 Self Inspection Report & Corrective Action Log (make additional copies as necessary)

Company/Organization:
Name of Inspector:
Telephone Number:
Qualifications:

Inspection Schedule

Discharges to impaired waters, surface waters within a TMDL watershed, or exceptional waters:

☒ Once every 4 business days

Inspection Date: _____

Describe phase of construction: _____

Is a copy of the SWPPP available on site? ☐ Yes ☐ No Is the SWPPP complete? ☐ Yes ☐ No

Erosion & Sediment Controls/ Pollution Prevention Practices	In Compliance?	Corrective Action Needed & Notes	Date Corrective Action Taken
Are controls in place to prevent sediment from being tracked off site or onto the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are perimeter controls adequately installed and properly maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are storm drains properly protected / approved inlet protection is in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are all slopes and disturbed areas, including stockpiles, not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are dewatering operations working properly?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Is construction dust properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are mature trees and/or natural areas properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		

Arlington County SWPPP 12/2016

STORMWATER POLLUTION PREVENTION PLAN			
Are washout facilities (concrete, paint) available, labeled, and properly maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are trash and waste materials properly managed and disposed of?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are trash receptacles covered and not leaking?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are non-stormwater discharges (i.e. wash water, saw cut slurry) properly managed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are vehicle and equipment fueling, maintenance, and/or staging areas free of spills and leaks?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are materials that are potential stormwater contaminants stored properly (covered / have secondary containment)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Are portable lavatories level, in good condition, and located away from storm drains?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Is a spill kit accessible onsite?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		

Are there any unauthorized discharges at the time of this inspection? ☐ Yes ☐ No
If yes, describe:

Has any unauthorized discharge occurred since the last inspection? ☐ Yes ☐ No
If yes, describe:

Non – Compliance Issues
Describe any incidents of non-compliance not described above (use another page if necessary)

Certification
"I certify under penalty of law that I have read and understand this document 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."

Operator or Assigned Qualified Personnel Name: _____

Signature: _____

Date: _____

Arlington County SWPPP 12/2016

26TH STREET N OUTFALL REPAIR S59D

Pollution Prevention Plan Notes:

- Only the following non-stormwater discharges are authorized by Arlington County's MS4 permit, unless the State Water Control Board or Arlington County determines the discharge to be a significant source or pollutants to surface waters: water line flushing (managed in a manner to avoid an instream impact); landscape irrigation; diverted stream flows; rising ground waters; uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20)); uncontaminated pumped ground water; discharges from potable water sources; foundation drains; air conditioning condensation; irrigation water; springs; water from crawl space pumps; footing drains; individual residential car washing; flows from riparian habitats and wetlands; dechlorinated swimming pool discharges; street wash water; discharges or flows from emergency firefighting activities; discharges or flows of potable water used in firefighting training activities; discharges or flows of potable water used in firefighting training activities managed in a manner to avoid an instream impact; and, other activities generating discharges identified by the Department of Environmental Quality as not requiring VPDES authorization.
- Appropriate controls must be implemented to prevent any non-stormwater discharges not included on the above list (e.g., concrete wash water, paint wash water, vehicle wash water, wash water containing detergents and/or chemicals, slurry/wash water from saw cutting operations, etc.) from being discharged into Arlington County's Municipal Separate Storm Sewer System (MS4) or stream network.
- Per Chapter 26-5. C of the Arlington County Code, it shall be unlawful for any person to discharge directly or indirectly into the storm sewer system or state waters.Only the following non-stormwater discharges are authorized by Arlington County's MS4 permit, unless the State Water Control Board or Arlington County determines the discharge to be a significant source of pollutants to surface waters: water line flushing(managed in a manner to avoid an instream impact); landscape irrigation; diverted stream flows; rising ground waters; uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20)); uncontaminated pumped ground water; discharges from potable water sources; foundation drains; air conditioning condensation; irrigation water; springs; water from crawl space pumps; footing drains; lawn watering; individual residential car washing; flows from riparian habitats and wetlands; dechlorinated swimming pool discharges; street wash water; discharges or flows from emergency firefighting activities; discharges or flows of potable water used in firefighting training activities managed in a manner to avoid an instream impact; and, other activities generating discharges identified by the Department of Environmental Quality as not requiring VPDES authorization.
- Appropriate controls must be implemented to prevent any non-stormwater discharges not included on the above list (e.g., concrete wash water, paint wash water, vehicle wash water, wash water containing detergents and/or chemicals, slurry/wash water from saw cutting operations, etc.) from being discharged into Arlington County's Municipal Separate Storm Sewer System (MS4) or stream network.
- Per Chapter 26-5. C of the Arlington County Code, it shall be unlawful for any person to discharge directly or indirectly into the storm sewer system or state waters, any substance likely, in the opinion of the County Manager, to have an adverse effect on the storm sewer system or state waters, any substance likely, in the opinion of the County Manager, to have an adverse effect on the storm sewer system or state waters.

DEQ Virginia Runoff Reduction Method Re-Development Compliance Spreadsheet - Version 3.0

ES 2011 BMP Standards and Specifications CS 2013 Draft BMP Standards and Specifications

Project Name: 26th Street N Outfall Repair
Date: 6/13/2022

Site Information
Linear Development Project? No

Post-Development Project (Treatment Volume and Loads)
Enter Total Disturbed Area (acres) → 0.1383
Check: BMP Design Specifications (Use: 2011 Stds & Specs)
Maximum reduction required: 10%
The site's net increase in impervious cover (acres) is: 0.0010
Post-Development TP Load Reduction for Site (lb/yr): 0.0087
Linear project? No
Land cover areas entered correctly? Yes
Total disturbed area entered? Yes

Pre-Development Land Cover (acres)
Forest/Open Space (acres) - undisturbed: 0.1096
Managed Turf (acres) - disturbed, graded for yards or other turf to be mowed/managed: 0.0000
Impervious Cover (acres): 0.0287
Total: 0.1383

Post-Development Land Cover (acres)
Forest/Open Space (acres) - undisturbed, protected forest/open space or reforested land: 0.1086
Managed Turf (acres) - disturbed, graded for yards or other turf to be mowed/managed: 0.0000
Impervious Cover (acres): 0.0297
Total: 0.1383

Area Check: OK OK OK OK 0.1383

Constants
Normal Rainfall (inches): 4.0
Target Rainfall Event (inches): 1.00
Total Phosphorus (TP) (lb/acre/yr): 0.26
Total Nitrogen (TN) (lb/acre/yr): 1.86
Target TP Load (lb/acre/yr): 0.41
TP Load Reduction Factor: 0.90

Runoff Coefficients (Rv)
Forest/Open Space: 0.02
Managed Turf: 0.15
Impervious Cover: 0.95

LAND COVER SUMMARY - PRE-REDEVELOPMENT
Pre-Development Land Cover Summary
Forest/Open Space Cover (acres): 0.1096
Weighted Runoff: 0.0300
% Forest: 79%
Managed Turf Cover (acres): 0.0000
Weighted Runoff: 0.0000
% Managed Turf: 0%
Impervious Cover (acres): 0.0287
Weighted Runoff: 0.9500
% Impervious: 21%
Total Site Area (acres): 0.1383
Site Rv: 0.2289

LAND COVER SUMMARY - POST DEVELOPMENT
Post-Development Land Cover Summary
Forest/Open Space Cover (acres): 0.1086
Weighted Runoff: 0.0300
% Forest: 79%
Managed Turf Cover (acres): 0.0000
Weighted Runoff: 0.0000
% Managed Turf: 0%
Impervious Cover (acres): 0.0297
Weighted Runoff: 0.9500
% Impervious: 21%
Total Site Area (acres): 0.1379
Site Rv: 0.2223

Treatment Volume and Nutrient Load
Pre-Development Treatment Volume (acre-ft): 0.0025
Pre-Development TP Load (lb/yr): 0.0697
Pre-Development TN Load (lb/yr): 0.4985

Post-Development Treatment Volume (acre-ft): 0.0025
Post-Development TP Load (lb/yr): 0.0696
Post-Development TN Load (lb/yr): 0.5135

Post-Development Requirement for Site Area
TP Load Reduction Required (lb/yr): 0.0087

Nitrogen Loads (Informational Purposes Only)
Pre-Development TN Load (lb/yr): 0.4985
Post-Development TN Load (lb/yr): 0.5135

Runoff Reduction Notes:

- THE RUNOFF REDUCTION SPREADSHEET 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 TRACKS 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 SPECIFIED 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 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 ACHIEVED 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.

9/23/2021
date

Qianqian Li, P.E.
ESC Program Administrator
Department of Environmental Services
2100 Clarendon Boulevard, Suite 813
Arlington, Virginia 22201

Re: Erosion and Sediment Control Permit Application for:

3837 26TH STREET N
street address

LOT 7 OFFUTTS ADDN TO DOVER 10022 SQ FT
lot, block, section subdivision

LDA-17711
permit number

Dear Mrs. Li:

I hereby certify that I accept the responsibilities of Responsible Land Disturber for the above referenced project. I understand that these responsibilities include:

- Reviewing the erosion and sedimentation (E&S) plan for the project.
- Walking the site prior to construction to identify critical areas.
- Conducting a pre-construction briefing with earth moving and site contractors to present the E&S plan and highlight the presence of critical areas, the limits of clearing and the required E&S controls and tree protection measures to be installed. Call 703-228-0760 to schedule pre-construction meeting.
- Regularly inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspect the site 48 hours after a runoff-generating storm, and provide a copy of the inspection findings to the county.
- Reporting to the owner the presence inadequate or non functioning E&S controls when they are observed.
- Ensuring that temporary soil stabilization is applied within 7 days to areas denuded that will remain undisturbed for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
- Calling (703) 228-0760 at least 80 hours before demolishing any structure.

I may be reached at 703-228-3474 with questions about this plan or my execution of the duties of

Responsible Land Disturber.

Sincerely,

Christopher Balallo
signed

Christopher Balallo
name printed

P.E. 0402052323
professional registration (type and number)

STORMWATER POLLUTION PREVENTION PLAN

9.0 Grading & Stabilization Activities Log

Date Grading Activity Initiated	Description of the Grading Activity (including location)	Date Grading Activity Ceased	Date Stabilization Measures Initiated	Description of the Stabilization Measure (including location)

10.0 SWPPP Modification & Update Log

Modification Date	Description of the Modification / Update	Modification Prepared By (name & title)

Arlington County SWPPP 12/2016

INSTRUCTIONS for COMPLETING the SINGLE FAMILY RESIDENCE, COMMON PLAN of DEVELOPMENT or SALE STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

General
A Stormwater Pollution Prevention Plan (SWPPP) must be developed prior to obtaining locality (e.g., City, County, Town) authorization to commence land disturbance.

SWPPP Cover Page
For a construction activity, enter the project/site name and physical address (if available), including city (or town), state and zip code. Enter the latitude and longitude in decimal degrees of the construction activity.

Enter the Construction Activity Operator's company/organization name, the Operator's name and mailing address, including city (or town), state, and zip code, telephone number, email address (if available), and a 24-hour emergency contact.

Enter the SWPPP preparation date.

The Construction Activity Operator identified on the cover page of the SWPPP is responsible for certifying the information contained therein. Please sign the certification in INK. Please note that state statutes require the SWPPP to be signed as follows:
(1) For a corporation: by a responsible corporate officer;
(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
(3) For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

Section 1.0 SWPPP Documents Located Onsite & Available for Review
Utilize the provided checklist to ensure that the required SWPPP documents are located onsite and are available for review, if applicable.

Section 2.0 Authorized Non-Stormwater Discharges
Identify the authorized non-stormwater discharges likely to be present at the project site. If an unlisted authorized non-stormwater discharge is likely to be present at the project site, provide it here.

Section 3.0 Pollution Prevention Awareness
Provide employees with a "walk through" of the project site and identify areas of possible pollution, erosion and sediment controls, and pollution prevention practices which are applicable to their assigned job duties. Conduct refresher meetings and perform additional "walk throughs" on an as needed basis.

Section 4.0 Erosion & Sediment Controls
Identify the erosion and sediment controls to be implemented at the project site. For each erosion and sediment control, enter the estimated installation date and estimated removal date. If an unlisted erosion and sediment control will be implemented at the project site, provide the applicable information here.

Section 5.0 Potential Sources of Pollution & Pollution Prevention Practices
Identify the pollutant-generating activities likely to be present at the project site, implement and maintain the corresponding pollution prevention practices. If an unlisted pollutant-generating activity is likely to be present at the project site, describe it, identify the associated pollutant(s), and provide the corresponding pollution prevention practice(s) to be implemented and maintained.

Section 6.0 Stormwater Management Controls
Identify the stormwater management controls to be implemented at the project site, if applicable. For each stormwater management control, enter the estimated installation date. If an unlisted stormwater management control will be implemented at the project site, provide the applicable information here.

Section 7.0 Spill Prevention & Response
Most spills can be cleaned up following manufacturer specifications. The priority should be to protect all people, equipment, property, and the environment. Enter the telephone number of your local fire and police departments.

Section 8.0 Inspections & Corrective Action Log
Enter the qualified inspector's company/organization name, the inspector's name, telephone number, and qualifications. Select the applicable inspection schedule, enter the construction activity inspection date, and enter the date and rainfall amount of the last measurable storm event (if applicable). Identify if the implemented best management practices are in compliance with the SWPPP. Enter corrective actions needed; the party responsible for implementing the corrective actions, and the date corrective actions were taken, if applicable. Make additional copies of the inspection and corrective action log as necessary.

Section 9.0 Grading & Stabilization Activities Log
Enter the date grading activities were initiated, a description of the grading activities including location, the date grading activities ceased, the date stabilization measures were initiated, and a description of the stabilization measures including location.

Section 10.0 SWPPP Modification & Update Log
Enter the SWPPP modification date, description of the SWPPP modification/update, and the name and title of the SWPPP modification preparer, if applicable.

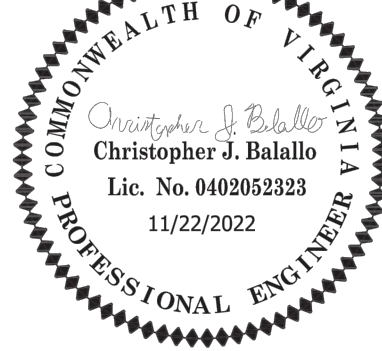
Arlington County SWPPP 12/2016

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

COPYRIGHT © 2021 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS DATE

Amy Pflaum 12/19/22
QUALITY CONTROL ENGINEER
1/6/23
CONSTRUCTION MANAGEMENT SUPERVISOR
1/9/23
WATER, SEWER, STREETS BUREAU CHIEF
Dennis M. Leach 1/11/23
TRANSPORTATION DIRECTOR
Elizabeth Thumber 2/27/2023
PROJECT MANAGER

REVISIONS DATE

26TH STREET N OUTFALL REPAIR

S59D

3837 26TH STREET N

STORMWATER POLLUTION PREVENTION
PLAN - 3

DESIGNED: MM
DRAWN: MM
CHECKED: CB

PLOTTED: MARCH 1 2023

SCALE:

N/A

C035.3

Appendix C. Water Quality Impact Assessment Data Sheet

Project Address 3837 & 3838 26th St. North		Date: November 22, 2022	
Applicant Name/Affiliation: Christopher Balallo / Arlington County DES		Applicant Contact Information (phone and email): 703-228-3632 nnaikare@arlingtonva.us	
Owner/Client Name: Arlington County		Owner/Client Contact Information (phone and email):	

Section 1: Type of activity proposed

Activity type (check all that apply):			
<input type="checkbox"/> New construction (residential, commercial, public, etc.)		<input type="checkbox"/> Deck, patio, or retaining wall	
<input checked="" type="checkbox"/> Alteration of non-residential structure		<input checked="" type="checkbox"/> Landscaping (includes tree removal)	
<input type="checkbox"/> Residential addition		<input checked="" type="checkbox"/> Utility work	
<input type="checkbox"/> Detached residential structure		<input type="checkbox"/> Fence	
		<input checked="" type="checkbox"/> Other (please describe): Existing Outfall Repair	

Section 2: Key details of the proposed activity

Complete all that apply		Explanation	
Total area of disturbance on parcel (sf)		6,027 SF	Includes building footprint plus a 10 foot buffer. Also includes all soil disturbance, ingress/egress areas, stockpiling areas, etc.
Area of disturbance within RPA (sf)		6,027 SF	Includes removal of trees ≥ 3" in diameter
Area of disturbance on slopes greater than or equal to 15 percent located adjacent to landward RPA boundary (sf)		0 SF	Does not apply to RPA parcels along Chain Bridge Road (15 percent and greater slopes are included as part of RPA)

Complete all fields		Existing condition	Proposed condition	Explanation
RPA encroachment (ft)	Left third of parcel or site	0 SF	0 SF	The distance (in feet) from the existing or proposed structure to the designated RPA feature (edge of stream or open channel, wetland, etc.). Encroachments of zero (0) indicate the project will impact the stream or other RPA feature.
	Middle third of parcel or site	0 SF	0 SF	
	Right third of parcel or site	0 SF	0 SF	
Total development footprint in RPA (sf)		1,361 SF	1,424 SF	The existing footprint includes the area of any existing structures, patios, decks, walkways, etc. Proposed footprint is the anticipated post-project area of all structures, additions, decks, walkways, regraded area behind a retaining wall, etc.
Impervious footprint in RPA (sf)		1,250 SF	1,294 SF	Total area of impervious surfaces within the RPA (rooftops, pavement, etc.)
		(OVER)		

STAFF USE ONLY

Building/demolition/LDA/Fence permit number(s):

Major WQIA required? ☐ Yes ☐ No

Date WQIA/Exception request information complete:

Date Chesapeake Bay Preservation Ordinance and E/S ordinance (if applicable) approvals issued in Permits Plus:

Section 3: Plan and Narrative

Provide a plan showing the location of the proposed activity, along with the RPA boundary Briefly describe the proposed project, including any potential water quality impacts and mitigation measuresproposed. The narrative must address three impact categories 1. Tree/vegetation impacts, 2. Stormwater and runoff 3. Erosion and sediment control. Please refer to the WQIA plan/narrative checklist for additional information.

WATER QUALITY IMPACT ASSESSMENT (WQIA) NARRATIVE

IT HAS COME TO THE COUNTIES ATTENTION THAT THE EXISTING OUTFALL IS APPROACHING FAILURE AND NEEDS TO BE REPAIRED. UPON INITIAL ANALYSIS IT WAS DETERMINED THAT THE EXISTING 15" CMP IS ALSO APPROACHING FAILURE AND NEEDS TO BE REHABILITATED.

EXISTING CONDITIONS
THE HIGHEST POINT OF THE PROJECT AREA IS THE CURB INLET IN THE CUL-DE-SAC OF 26TH STREET N. THE SITE IS LOCATED WITHIN THE RIXEY BRANCH WATERSHED. THE HYDROLOGIC SOIL GROUP IS 6D, THE SOIL TYPE IS "GLENELG-MANOR COMPLEX", AND THE SITE HAS STEEP SLOPES 15%-35%.

PROPOSED IMPROVEMENTS
A NEW GABION WALL WILL BE INSTALLED TO HELP COMBAT EROSION ON THE EASTERN SIDE OF THE OUTFALL. THE EXISTING HEAD WALL WILL BE CONTINUED NORTH EAST TO MEET THE GABION WALL, AND CONCRETE WILL FILL THE REMAINING ERODED AREA. THE CONCRETE FILL WILL APPEAR AS A CONTINUATION OF THE EXISTING OUTFALL. A CURED IN PLACE PIPE WILL BE USED TO REHABILITATE THE EXISTING 15" CMP WHILE MAINTAINING MINIMAL DISTURBANCE TO THE EXISTING SLOPE AND RESIDENTIAL PROPERTIES. THE EXISTING ROCKS AT THE OUTFALL WILL BE REMOVED, AND A NEW RIP-RAP CHANNEL WILL BE INSTALLED. THE SITE AREA FOR THIS WATER QUALITY IMPACT ASSESSMENT IS DEFINED BY THE LIMITS OF DISTURBANCE AND THE LIMITS OF WORK.

TREES/VEGETATION IMPACTS
THE CONTRACTOR WILL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION, UNLESS OTHERWISE INDICATED IN THE LANDSCAPE PLAN. IN ORDER TO MAINTAIN CLEAR ZONE AND LINE OF SIGHT, THE MAJORITY OF THE VEGETATION CONSISTS OF TREES. IMPACTED TREES WILL BE REMOVED FROM THE SITE AREA, AND WILL BE REPLACED AS PER REQUIREMENTS OF ARLINGTON COUNTY TREE REPLACEMENT CRITERIA. EXISTING TREES TO REMAIN WILL REQUIRE ROOT PRUNING AND/OR STANDARD TREE PROTECTION. TREE PROTECTION, REMOVAL, AND PRUNING AS WELL AS EXISTING TREE SURVEY AND TREE REPLACEMENT TABLES ARE SHOWN ON SEDIMENT CONTROL PLAN, TREE REMOVAL AND PRUNING PLAN, AND THE PROPOSED LANDSCAPING PLAN.

STORMWATER AND RUNOFF IMPACTS
EXISTING AND PROPOSED STORM SEWER WILL BE USED TO DRAIN THE STORMWATER RUNOFF. DUE TO THE 32 SQUARE FOOT INCREASE IN IMPERVIOUS AREA, THERE WILL BE A VERY MINOR INCREASE IN STORM WATER QUANTITY RESULTING FROM THIS PROJECT.

EROSION AND SEDIMENT CONTROL IMPACTS
THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT AREA IS LIMITED TO SILT FENCE WITH WIRE SUPPORT, PUMP AROUND DIVERSION WITH DEWATERING STRUCTURE, SOIL STABILIZATION BLANKETS AND MATTING, CONSTRUCTION ENTRANCE, TREE PROTECTION, AND CURB INLET PROTECTION.

CURB INLET PROTECTION: VESCH 3.07 TREE PROTECTION FENCE: VESCH 3.38
DEWATERING STRUCTURE: VESCH 3.26 SILT FENCE WITH WIRE SUPPORT: VESCH 3.05
CONSTRUCTION ENTRANCE: AC MODIFIED SOIL STABILIZATION BLANKETS & MATTING VESCH 3.36

MITIGATION MEASURES
THE LIMITS OF WORK HAS BEEN DRAWN TO MINIMIZE DISTURBED AREA. A SMALL PORTION OF THE SITE AREA IS CURRENTLY COVERED IN IMPERVIOUS SURFACE, FOR WHICH THE SUBGRADE WILL NOT BE DISTURBED. SCHEDULED C&S INSPECTION AS DICTATED BY THE STORMWATER POLLUTION PREVENTION PLAN.

THE LANDSCAPE PLAN CONSERVES AS MUCH OF THE EXISTING VEGETATION AS PRACTICAL. WHERE VEGETATION IS REPLACED, THERE ARE GREATER NUMBER OF PLANTS AND MORE OF A VARIETY OF SPECIES COMPARED TO THE EXISTING CONDITION. THE CONTRACTOR IS REQUIRED TO CONTACT THE ARLINGTON COUNTY FORESTER TO SCHEDULE PRE-CONSTRUCTION INSPECTION OF TREE PROTECTION MEASURES PRIOR TO ANY WORK NEAR THE CRITICAL ROOT ZONES OF EXISTING TREES.

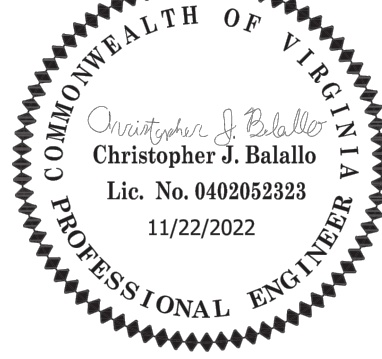
REQUIRED PERMITS

• LAND DISTURBING ACTIVITY PERMIT-ARLINGTON COUNTY DES

Additional Water Quality Impact Assessment Information

The information supplied on this form satisfies the minimum requirements for a Minor Water Quality Impact Assessment. For projects that disturb over 2500 square feet, elements of a Major Water Quality Impact Assessment may also be required, depending on the nature and extent of the proposed RPA encroachment, as outlined in Section 61-12 of the ordinance.

SEAL



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>Jeff</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/6/23
<i>Alia</i> WATER, SEWER, STREETS BUREAU CHIEF	1/9/23
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thumber</i> PROJECT MANAGER	2/27/2023

REVISIONS	DATE

26TH STREET N OUTFALL REPAIR
S59D

3837 26TH STREET N

WATER QUALITY IMPACT ASSESSMENT

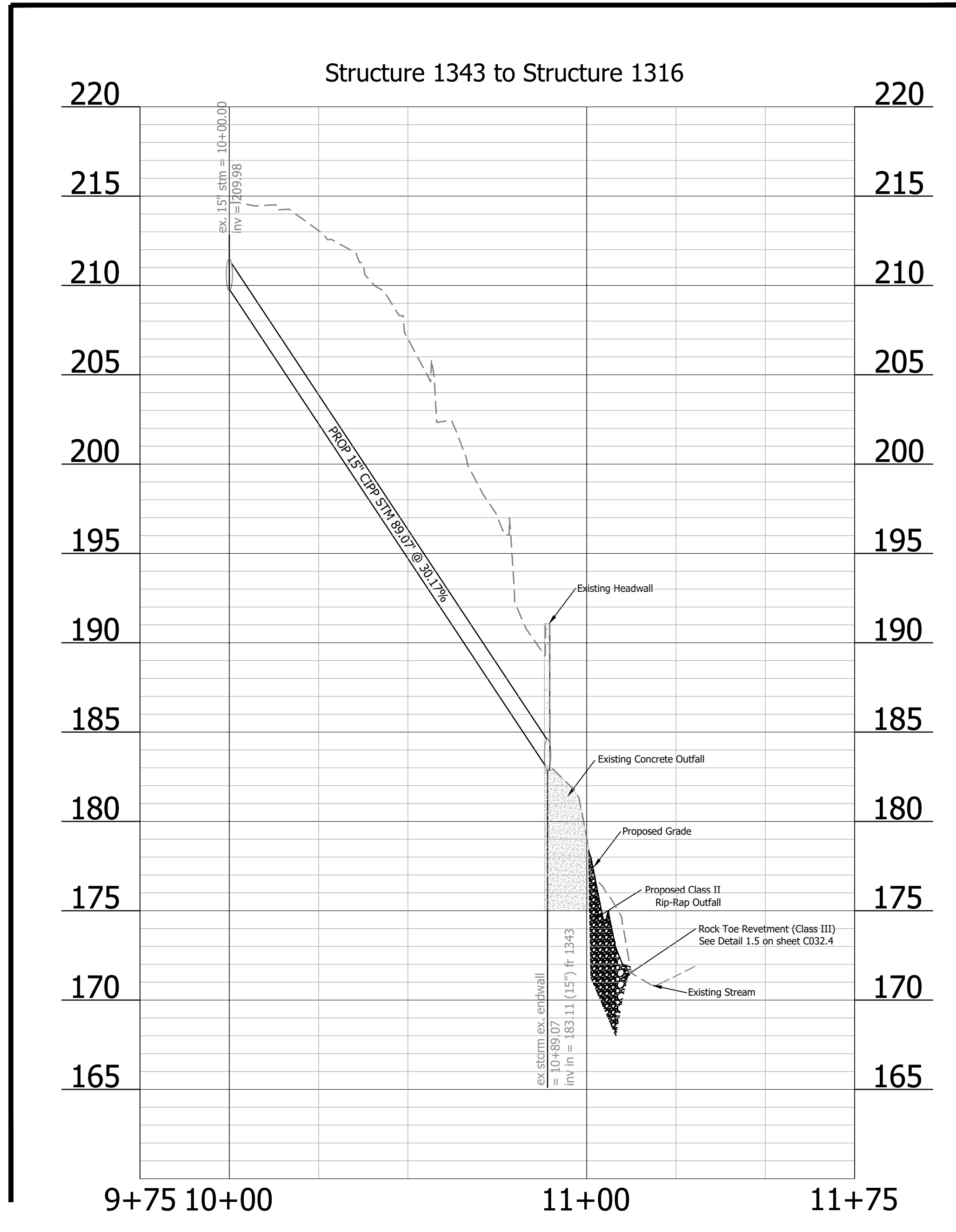
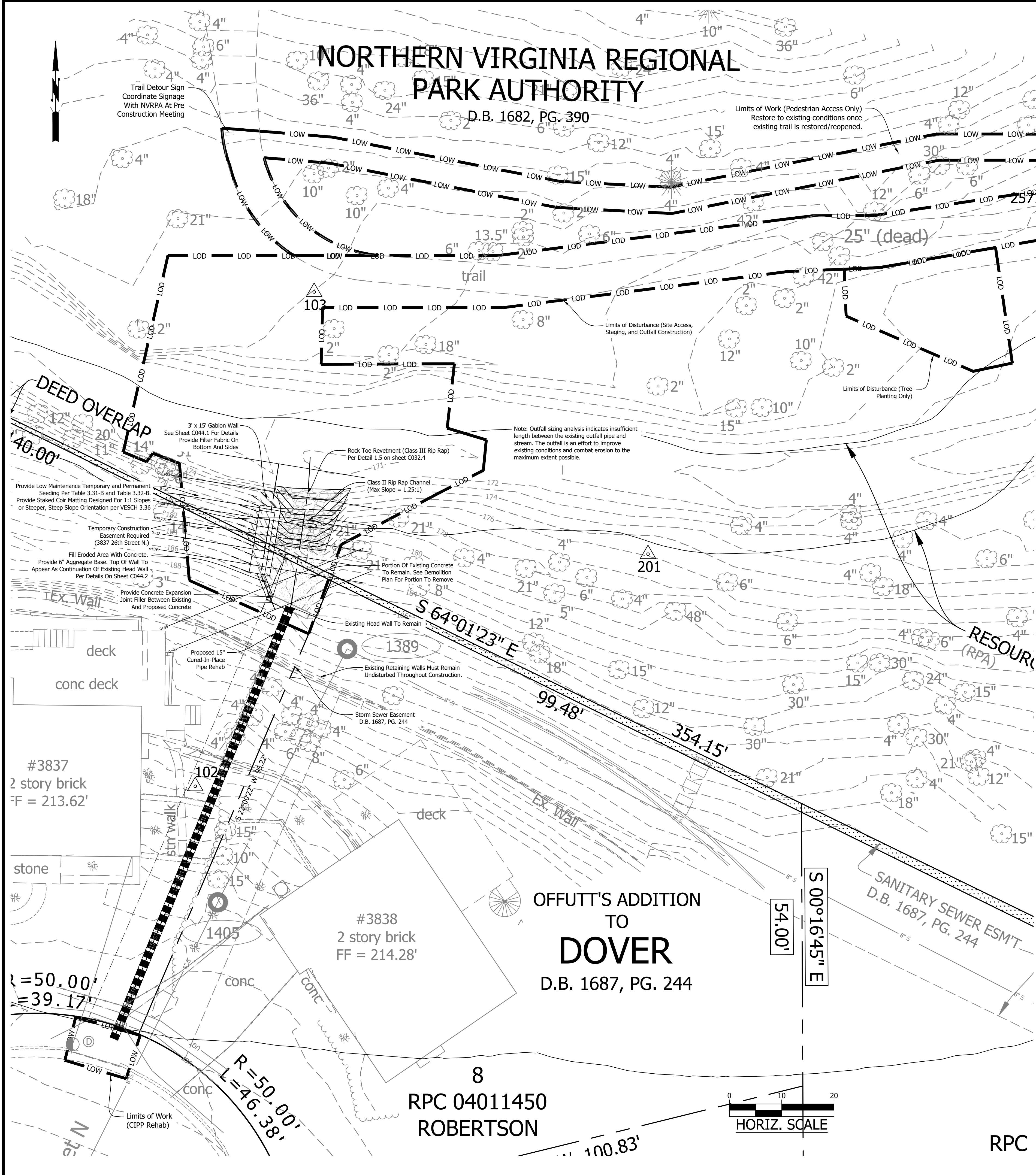
DESIGNED: MM
DRAWN: MM
CHECKED: CB
PLOTTED: MARCH 1 2023

SCALE:

AS SHOWN

REVISED ON 01/07/2021

FILENAME: S59D-23D-PLAN_PROFILE.DWG PATH: Q:\DATA\S59D\DESIGN\CAD\ACTIVE PLOTTED BY: ML MORRIS

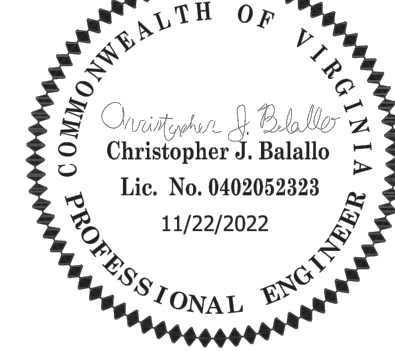


ARLINGTON
VIRGINIA

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

COPYRIGHT © 2021 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>[Signature]</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/6/23
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1/9/23
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thumber</i> PROJECT MANAGER	2/27/2023

REVISIONS DATE

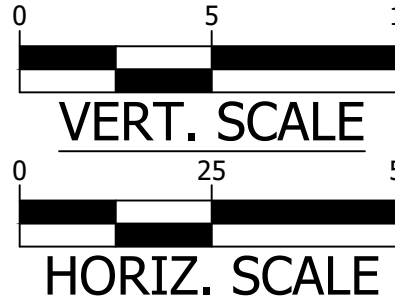
26TH STREET N OUTFALL REPAIR
S59D

3837 26TH STREET N

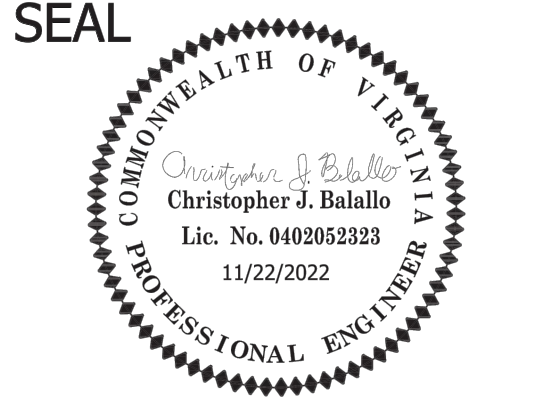
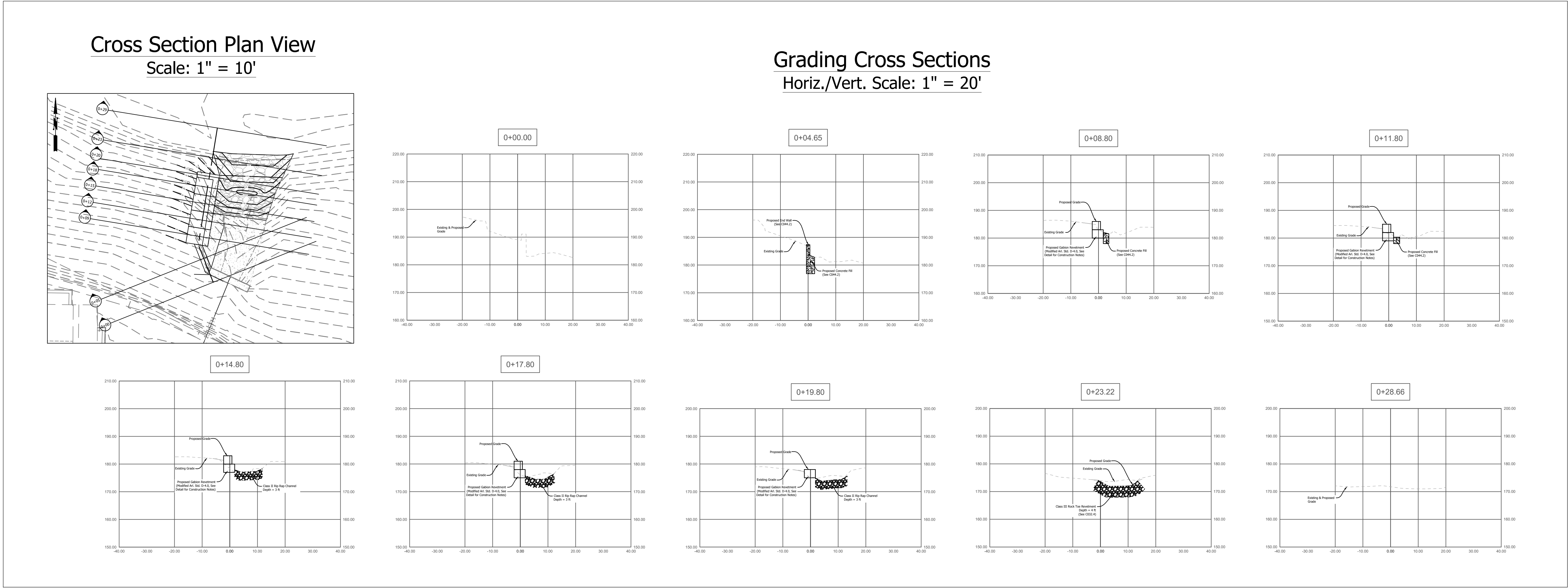
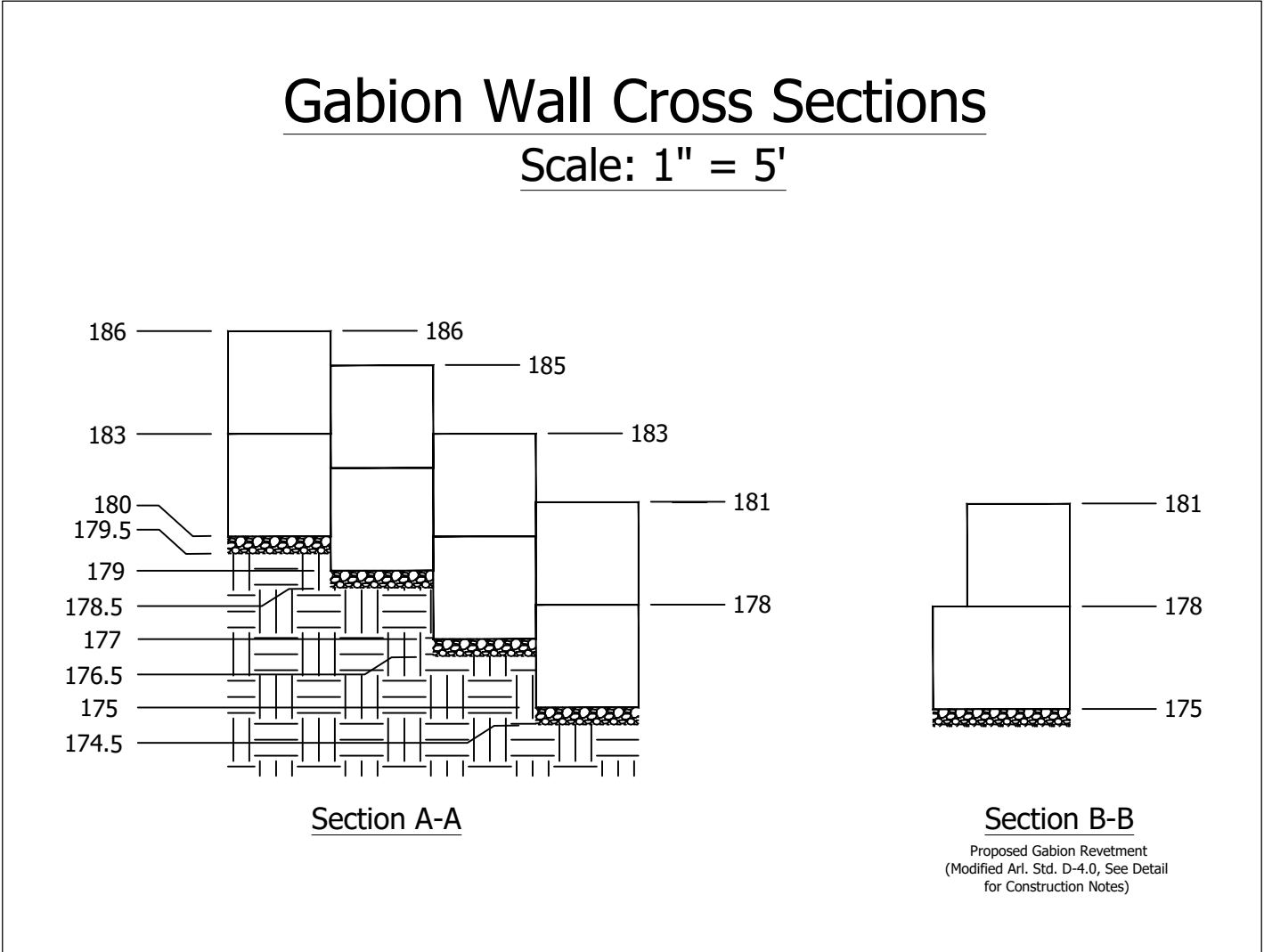
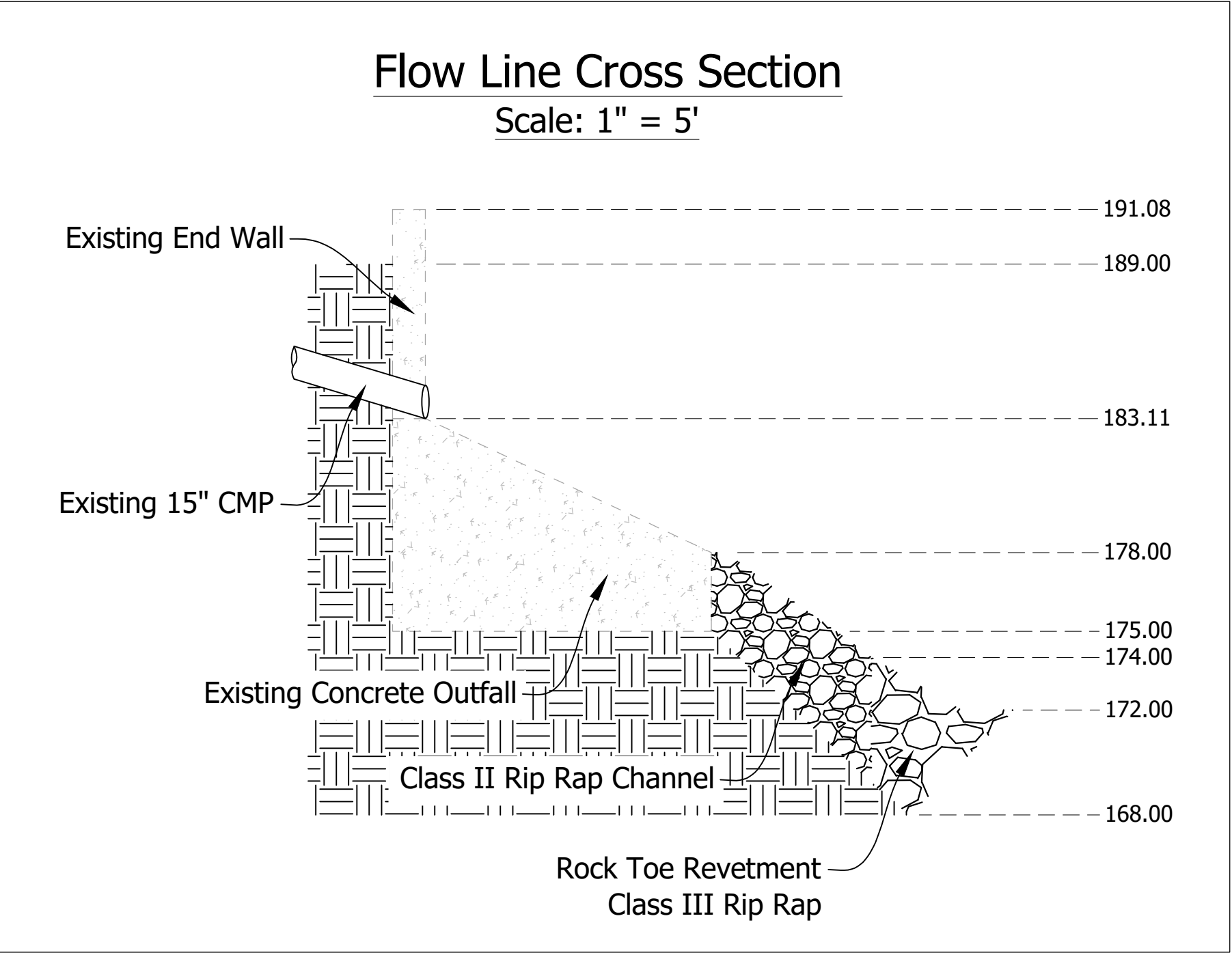
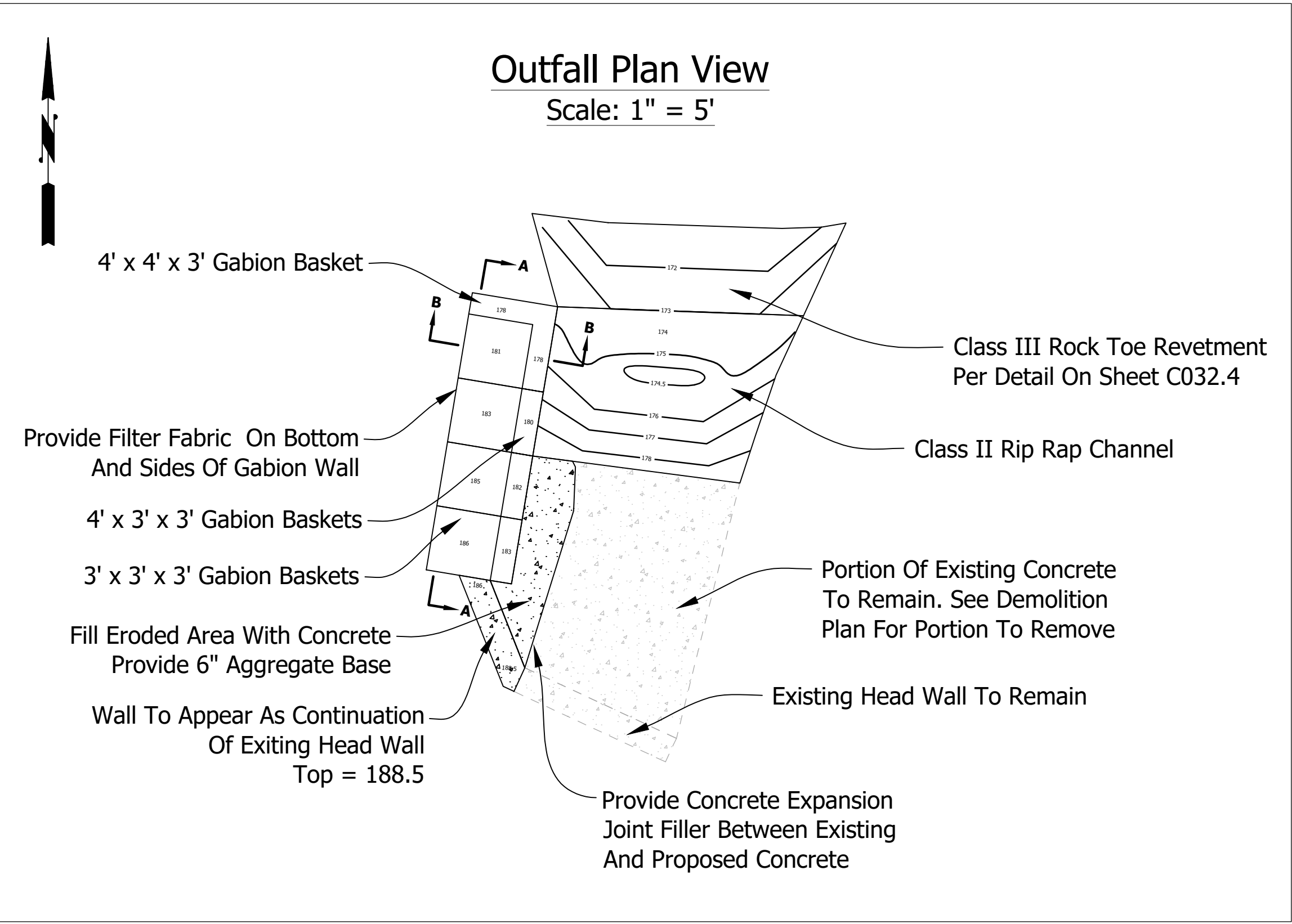
PLAN AND PROFILE

DESIGNED: MM
DRAWN: MM
CHECKED: CB
PLOTTED: MARCH 1 2023

SCALE:



C041.1



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>Chris Balallo</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/6/23
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thumber</i> PROJECT MANAGER	2/27/2023

REVISIONS	DATE

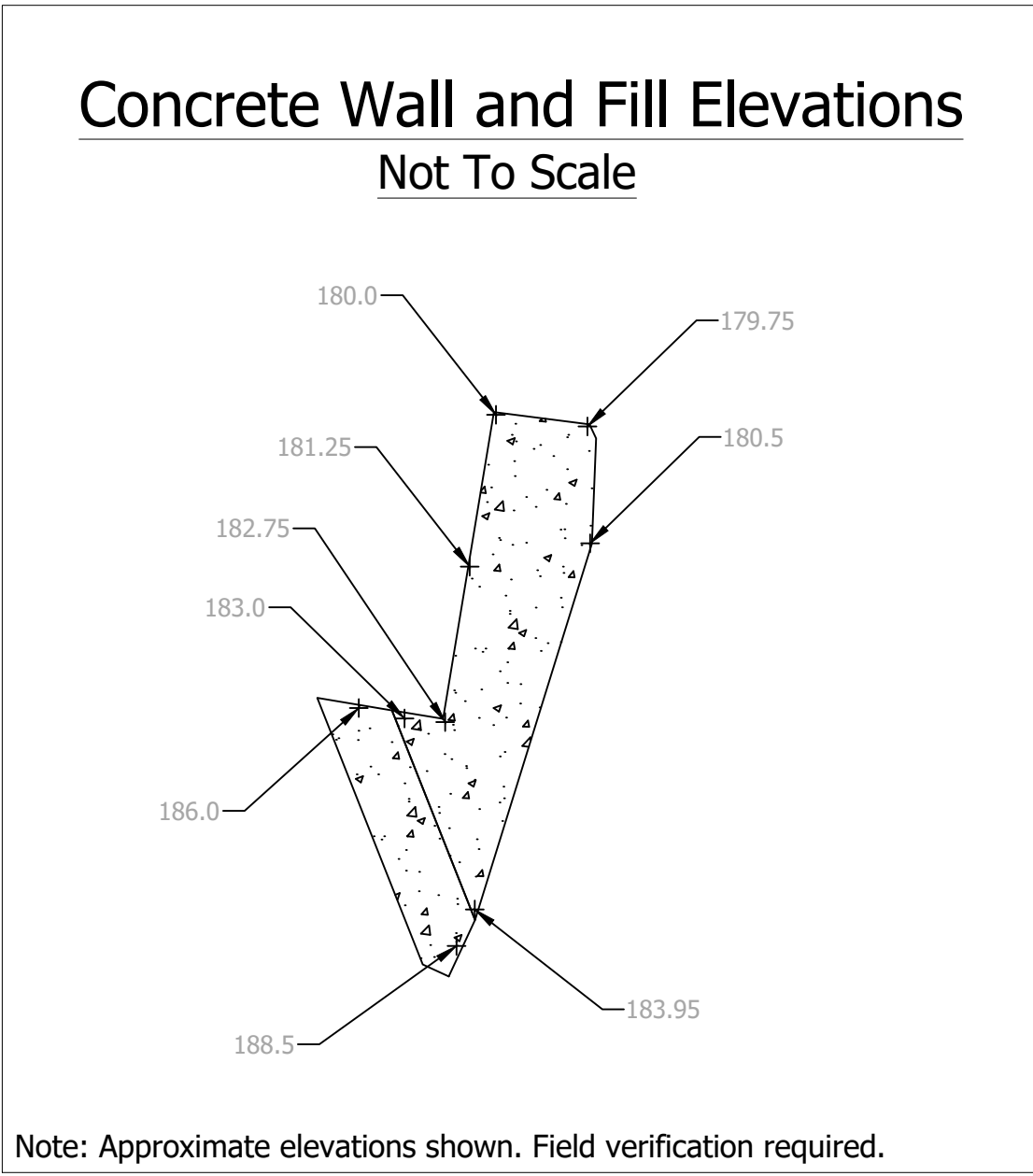
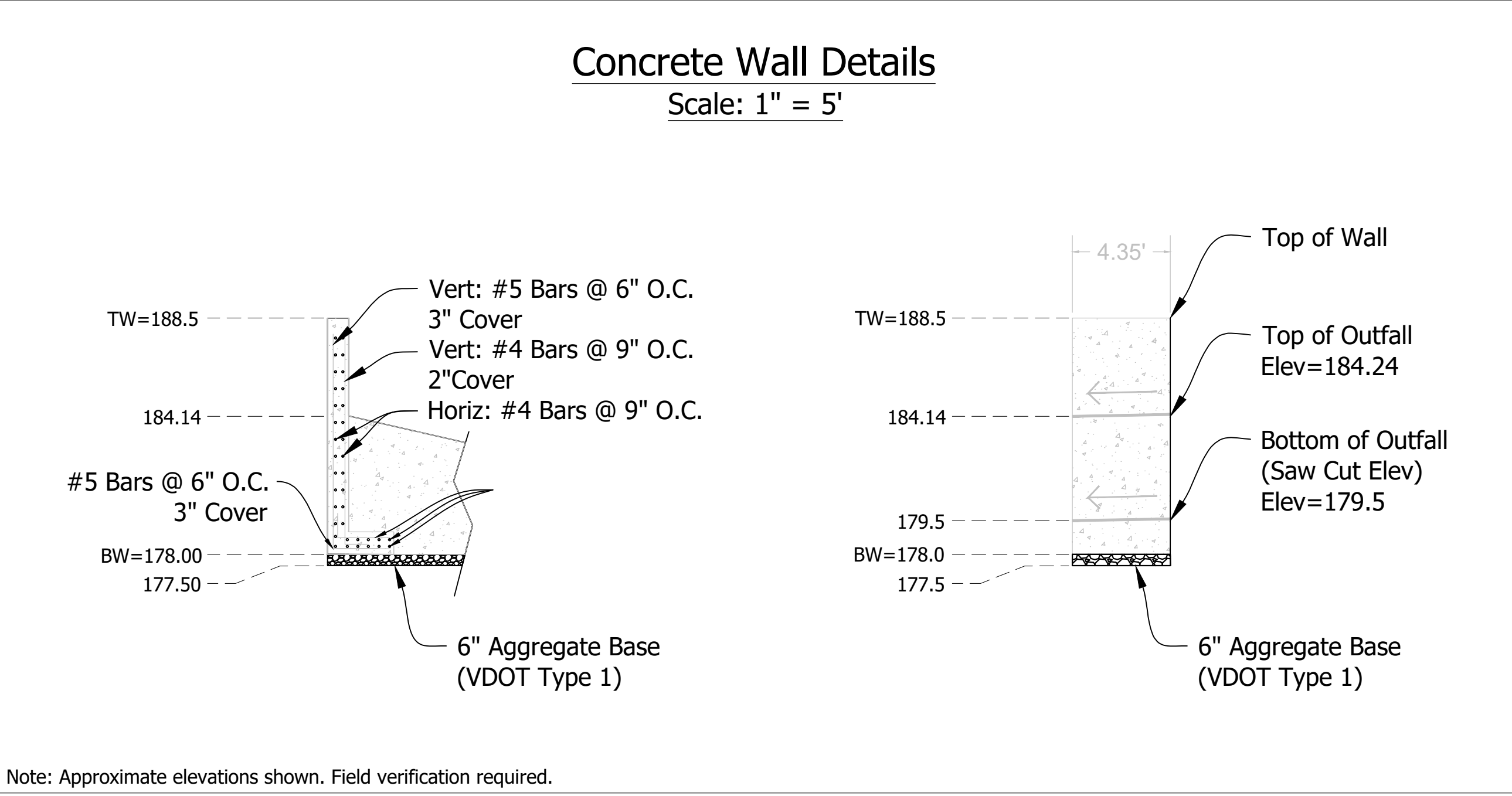
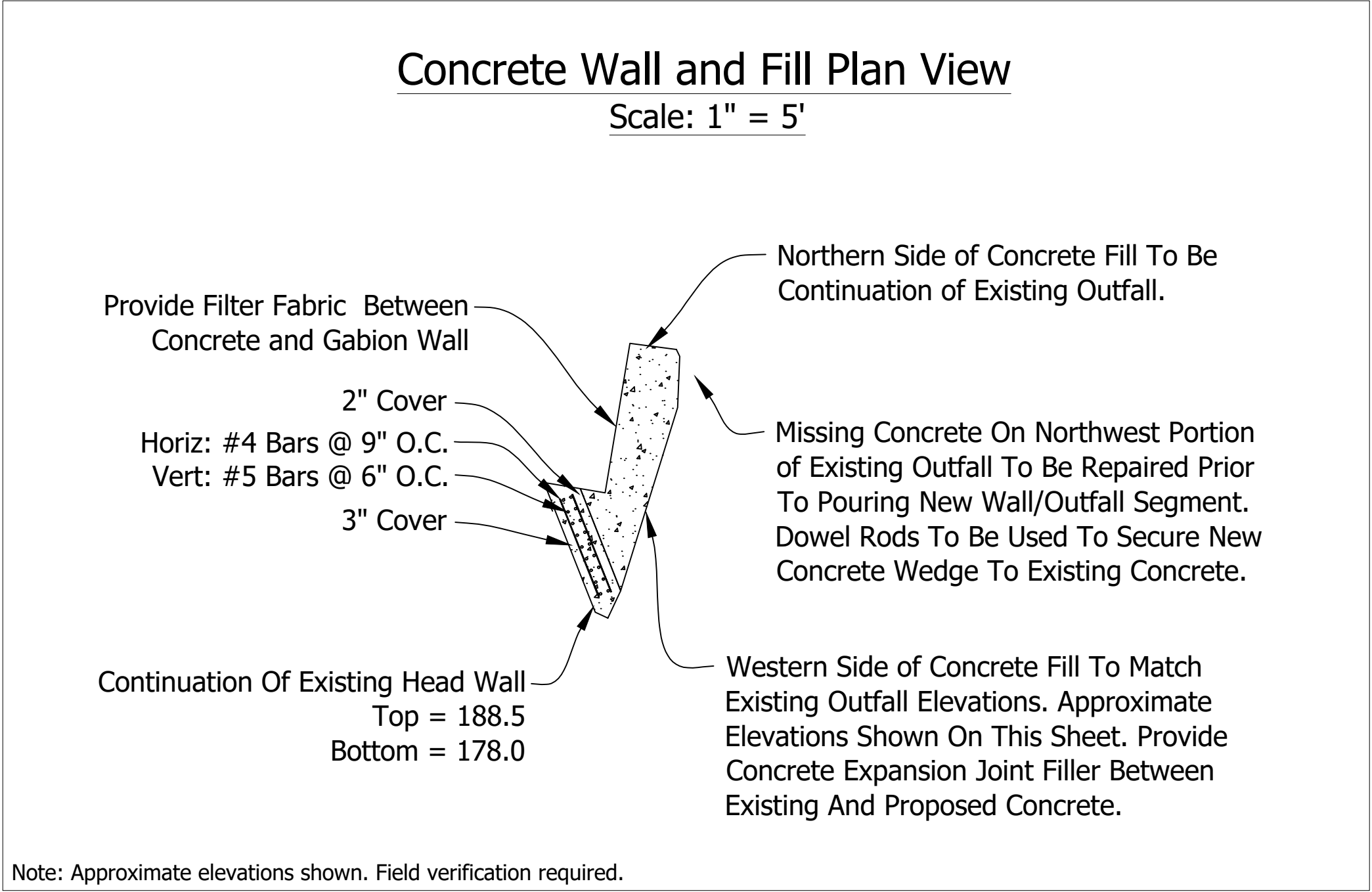
26TH STREET N OUTFALL REPAIR
S59D
3837 26TH STREET N
OUTFALL CROSS SECTIONS
AND DETAILS - 1

DESIGNED: MM
DRAWN: MM
CHECKED: CB

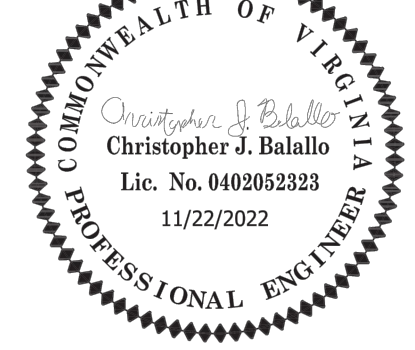
PLOTTED: MARCH 1 2023

SCALE:

As Shown



SEAL



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>[Signature]</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/6/23
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1/9/23
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thurber</i> PROJECT MANAGER	2/27/2023

REVISIONS	DATE

26TH STREET N OUTFALL REPAIR
S59D

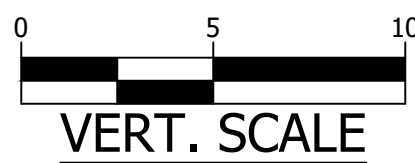
3837 26TH STREET N

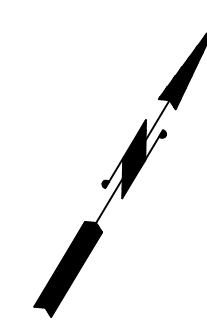
OUTFALL CROSS SECTIONS
AND DETAILS - 2

DESIGNED: MM
DRAWN: MM
CHECKED: CB

PLOTTED: MARCH 1 2023

SCALE:





BENCHMARK DATA:

POINT NO.	NORTHING(Y)	EASTING(X)	ELEV(Z)	DESCRIPTION
100	7016893.7785	11879096.1686	247.91	PK NAIL
101	7017146.3489	11879150.1644	217.21	PK NAIL
102	7017228.3768	11879175.4130	176.67	PIPE & CAP
103	7017309.6993	11879198.3793	177.30	PIPE & CAP
104	7017341.3903	11879414.8787	174.28	PIPE & CAP
2577	7017338.8228	11879337.6901	172.93	NAIL

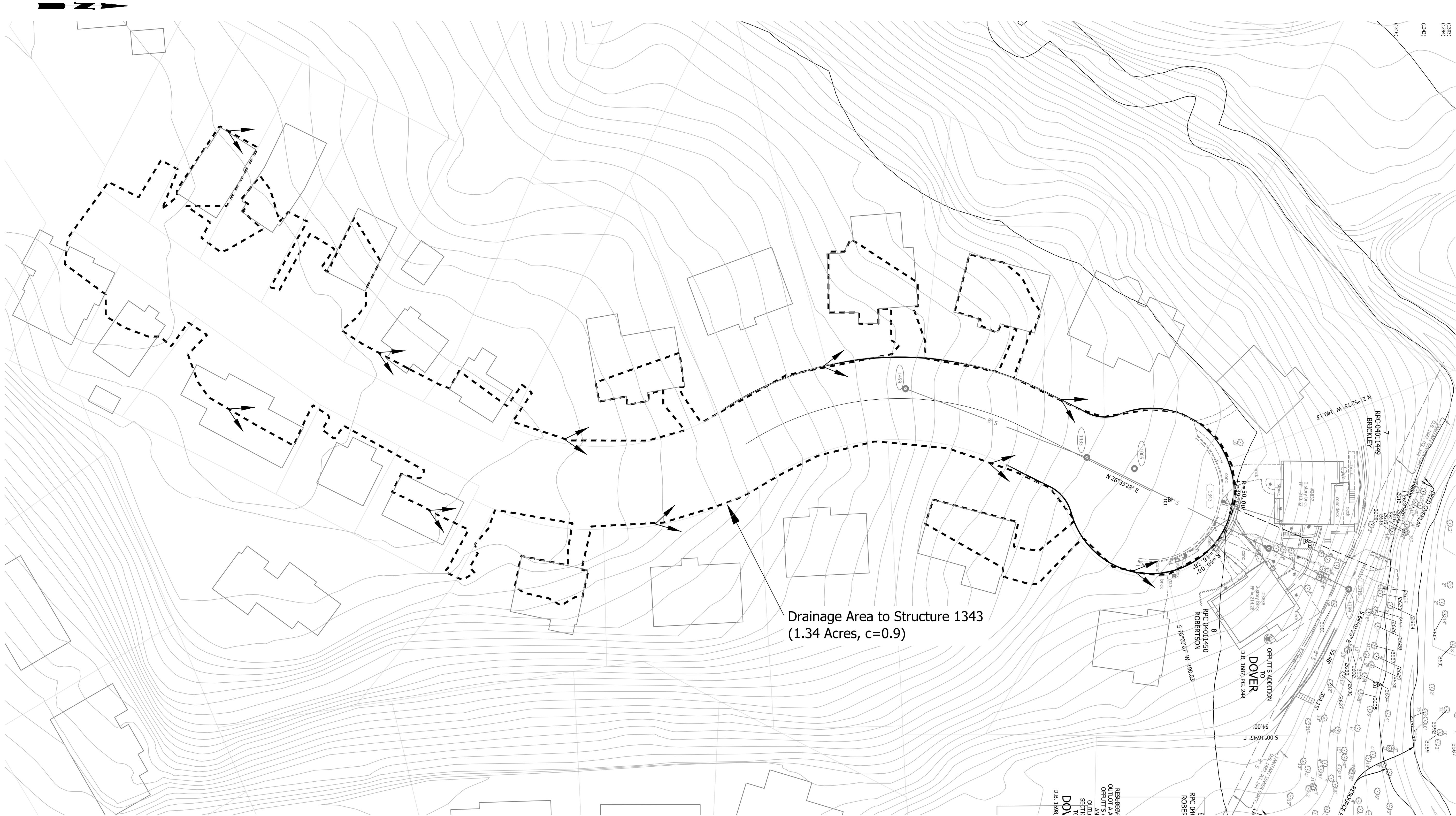
POINT NO.	NORTHING(Y)	EASTING(X)	ELEV(Z)	DESCRIPTION
100	7016893.7785	11879096.1686	247.91	PK NAIL
101	7017146.3489	11879150.1644	217.21	PK NAIL
102	7017228.3768	11879175.4190	206.67	PIPE & CAP
103	7017322.6993	11879198.3793	177.30	PIPE & CAP
104	7017341.3909	11879414.8787	174.28	PIPE & CAP
2577	7017338.8228	11879337.6901	172.93	NAIL

COMMONWEALTH OF VIRGINIA
Christopher J. Balallo
 Christopher J. Balallo
 Lic. No. 0402052323
 11/22/2022
 PROFESSIONAL ENGINEER

REVISIONS	DATE
-----------	------

GEOMETRIC CONTROL PLAN

C045.1



STORM SEWER DRAINAGE
DIVIDE LEGEND

STRUCTURE 1343
DRAINAGE DIVIDE
(1.34 ACRES)

NOT FOR CONSTRUCTION
THIS SHEET FOR CALCULATION PURPOSES ONLY

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

COPYRIGHT © 2021 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL
Christopher J. Balallo
Lic. No. 0403962323
11/22/2022
PROFESSIONAL ENGINEER

APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>[Signature]</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/6/23
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1/9/23
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thumber</i> PROJECT MANAGER	2/27/2023

REVISIONS	DATE

26TH STREET N OUTFALL REPAIR
S59D
3837 26TH STREET N
STORM SEWER DRAINAGE DIVIDE

DESIGNED: MM
DRAWN: MM
CHECKED: CB
PLOTTED: MARCH 3 2023
SCALE:
0 30 60
GRAPHIC SCALE

C071.1

26TH STREET N OUTFALL REPAIR S59D

REVISED ON 01/07/2021

Runoff Summary Table							
Structure ID	Rim Elev	Area (ac)	C	Known CA	Q ₁₀ (cfs)	Q ₁₀₀ (cfs)	Remarks
1343	214.61	1.340	0.900		8.19	10.97	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	

i ₁₀ (in/hr)	i ₁₀₀ (in/hr)
6.79	9.10

EXISTING 15" CMP CALCULATIONS

ARLINGTON
VIRGINIA

Storm Drain Design Computations																			
From Point	To Point	Drainage Area	Runoff Coefficient	CA			Inlet Time	Time of Conc.	Rainfall	Runoff Q	Invert Elevations		Length	Slope	Diameter	Capacity	Velocity	Flow Time	Remarks
		Acres	C	Incr.	Piped In	Accum.	min	min	in/hr	cfs	Upper End	Lower End	ft	%	in	cfs	fps	min	
1343	1316	1.34	0.90	1.21	0.00	1.21	5.00	5.00	6.79	8.19	210.01	183.11	89.67	30.00%	12	19.51	-	0.00	
END OF TABLE - DO NOT DELETE THIS LINE																			

ARLINGTON
VIRGINIA

Storm Inlet Computations																															
Inlet				Flow							Curb Inlet											Operation			Sag Inlets Only						
Number	Type	Length (ft)	Station	Drainage Area (acres)	C	CA	i (in/hr)	Q Incr (ft ² /s)	Q Carryover (ft ² /s)	Q _T (ft ² /s)	S Gutter Slope (ft/ft)	Sx Crossslope (ft/ft)	T Spread (ft)	W (ft)	W/T	Sw (ft/ft)	Sw/Sx	E _o	a (in)	S'w	Se (ft/ft)	Computed Length (ft)	L/L _T	E (%)	Q _i Intercepted (ft ² /s)	Q _o Carryover (ft ² /s)	d (ft)	h (ft)	d/h	T Spread @ Sag	
1343	CB-2A	8		1.34	0.90	1.206	4.00	4.82	0.00	4.824		0.02083		1.50		0.0833												0.34	0.42	0.00	11.70
END OF TABLE - DO NOT DELETE THIS LINE																															

ARLINGTON
VIRGINIA

Hydraulic Grade Line Computations																							
Inlet Structure	Upstream Structure	Outlet Water Surface Elev. (ft)	D ₀ (in)	Q ₀ (cfs)	L ₀ (ft)	Sf ₀ (%)	H _f (ft)	V ₀ (ft/s)	H _a (ft)	Q _i	V _i (ft/s)	Q/V _i	Junction Loss							Final H (ft)	Inlet Water Surface Elev. (ft)	Rim Elev. (ft)	
													V _i ² /2g (ft)	H _i (ft)	Angle (°)	H ₀ (ft)	H ₁ (ft)	1.3 H _i (ft)	0.5 H _i (ft)				
1316						Outlet Pipe Dia. = 12.00		Outlet Pipe Inv. = 183.11			0.8xDia + Pipe Inv. = 183.91			Outlet WSEL =							Starting WSEL = 183.91		
2443		183.91	12	8.19	89.67	5.2815%	4.74	10.43	0.51									0.51	0.66		5.39	210.01	214.61
END OF TABLE - DO NOT DELETE THIS LINE																							

PROPOSED 12" CIPP CALCULATIONS

NOTE: 12" IS A CONSERVATIVE SIZE USED FOR CALCULATION PURPOSES ONLY. ACTUAL SIZE DEPENDS ON THICKNESS OF CIPP.

ARLINGTON
VIRGINIA

Storm Drain Design Computations																			
From Point	To Point	Drainage Area	Runoff Coefficient	CA			Inlet Time	Time of Conc.	Rainfall	Runoff Q	Invert Elevations		Length	Slope	Diameter	Capacity	Velocity	Flow Time	Remarks
		Acres	C	Incr.	Piped In	Accum.	min	min	in/hr	cfs	Upper End	Lower End	ft	%	in	cfs	fps	min	
1343	1316	1.34	0.90	1.21	0.00	1.21	5.00	5.00	6.79	8.19	210.01	183.11	89.67	30.00%	12	19.51	-	0.00	
END OF TABLE - DO NOT DELETE THIS LINE																			

ARLINGTON
VIRGINIA

Storm Inlet Computations																															
Inlet				Flow							Curb Inlet												Operation			Sag Inlets Only					
Number	Type	Length (ft)	Station	Drainage Area (acres)	C	CA	i (in/hr)	Q Incr (ft ² /s)	Q Carryover (ft ² /s)	Q _T (ft ² /s)	S Gutter Slope (ft/ft)	S _x Crossslope (ft/ft)	T Spread (ft)	W (ft)	W/T	Sw (ft/ft)	Sw/S _x	E ₀	a (in)	S'w	Se (ft/ft)	L _T Computed Length (ft)	L/L _T	E (%)	Q _i Intercepted (ft ² /s)	Q ₀ Carryover (ft ² /s)	d (ft)	h (ft)	d/h	T Spread @ Sag (ft)	
1343	CB-2A	8		1.34	0.90	1.206	4.00	4.82	0.00	4.824		0.02083		1.50		0.0833												0.34	0.42	0.00	11.70
END OF TABLE - DO NOT DELETE THIS LINE																															

ARLINGTON
VIRGINIA

Hydraulic Grade Line Computations																						
Inlet Structure	Upstream Structure	Outlet Water Surface Elev. (ft)	D ₀ (in)	Q ₀ (cfs)	L ₀ (ft)	S _{f0} (%)	H _f (ft)	Junction Loss												Final H (ft)	Inlet Water Surface Elev. (ft)	Rim Elev. (ft)
								V ₀ (ft/s)	H ₀ (ft)	Q _i	V _i (ft/s)	Q/V _i	V _i ² /2g (ft)	H _i (ft)	Angle (°)	H _a (ft)	H ₁ (ft)	1.3 H _i (ft)	0.5 H _i (ft)			
1316						Outlet Pipe Dia. = 12.00			Outlet Pipe Inv. = 183.11		0.8xdia + Pipe Inv. = 183.91			Outlet WSEL =				Starting WSEL = 183.91				
1343	183.91		12	8.19	89.67	5.2815%	4.74	10.43	0.51									0.51	0.66	5.39	210.01	214.61
END OF TABLE - DO NOT DELETE THIS LINE																						

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

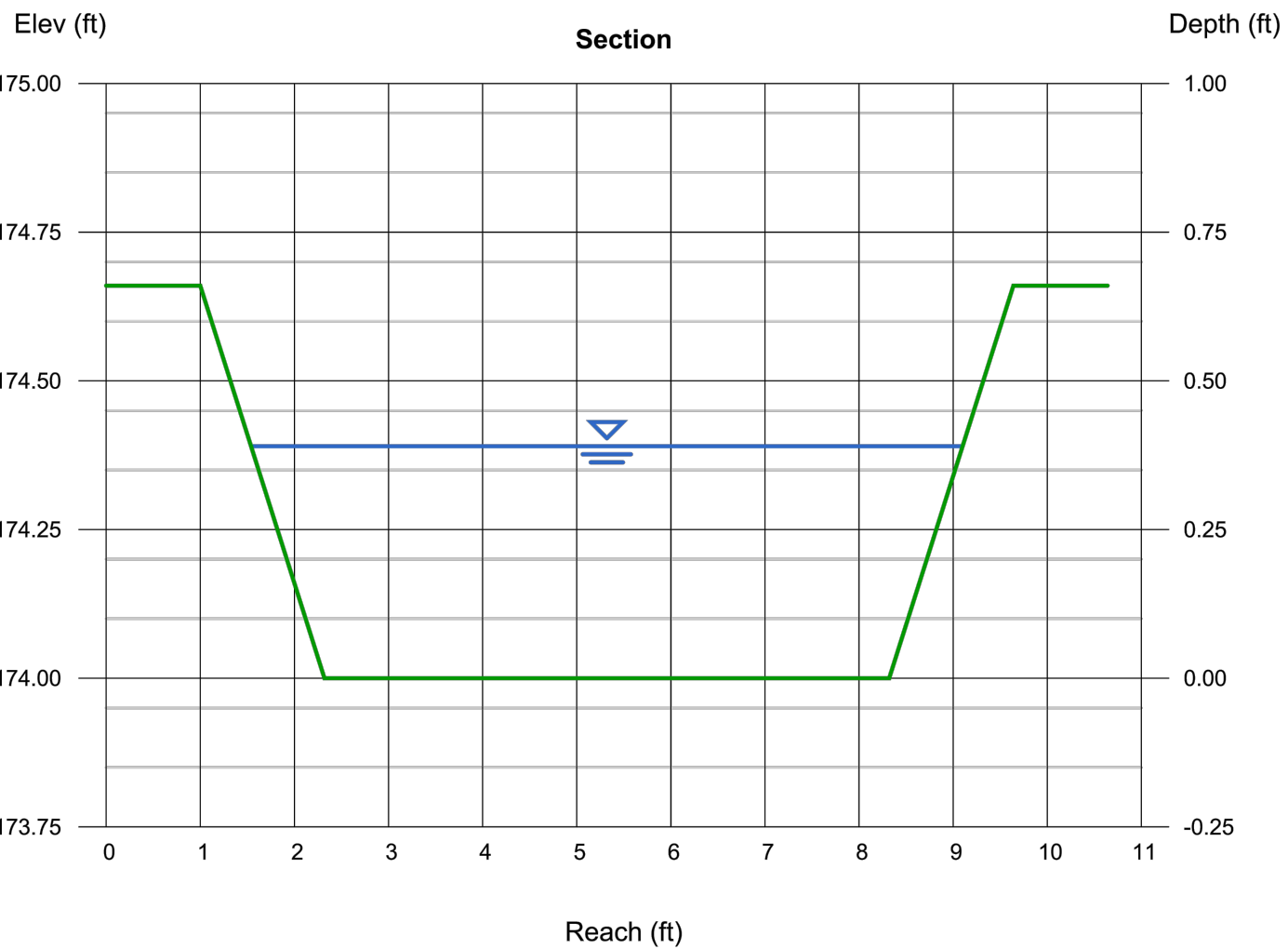
Monday, May 9 2022

<Name>

Trapezoidal
Bottom Width (ft) = 6.00
Side Slopes (z:1) = 2.00, 2.00
Total Depth (ft) = 0.66
Invert Elev (ft) = 174.00
Slope (%) = 71.44
N-Value = 0.044

Highlighted
Depth (ft) = 0.39
Q (cfs) = 35.38
Area (sqft) = 2.64
Velocity (ft/s) = 13.38
Wetted Perim (ft) = 7.74
Crit Depth, Yc (ft) = 0.66
Top Width (ft) = 7.56
EGL (ft) = 3.17

Calculations
Compute by: Known Q
Known Q (cfs) = 35.38



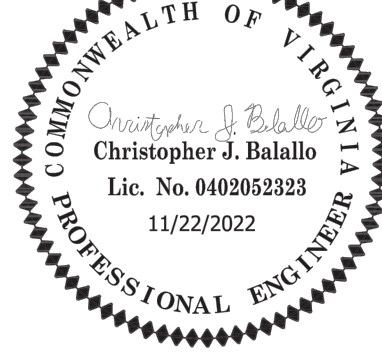
Notes:
- Maximum pipe capacity used to demonstrate channel adequacy.
- Portion of channel with the least capacity was modeled.
- Manning's n for Class II rip rap was used. Class III Rock Toe Revetment provided.

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

COPYRIGHT © 2021 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL



APPROVALS

DATE

Amy Pflaum 12/19/22
QUALITY CONTROL ENGINEER
John P. ... 1/6/23
CONSTRUCTION MANAGEMENT SUPERVISOR
John P. ... 1/9/23
WATER, SEWER, STREETS BUREAU CHIEF
Dennis M. Leach 1/11/23
TRANSPORTATION DIRECTOR
Elizabeth Thumber 2/27/2023
PROJECT MANAGER

REVISIONS

DATE

26TH STREET N OUTFALL REPAIR
SS9D

3837 26TH STREET N

STORM COMPUTATIONS

DESIGNED: MM
DRAWN: MM
CHECKED: CB

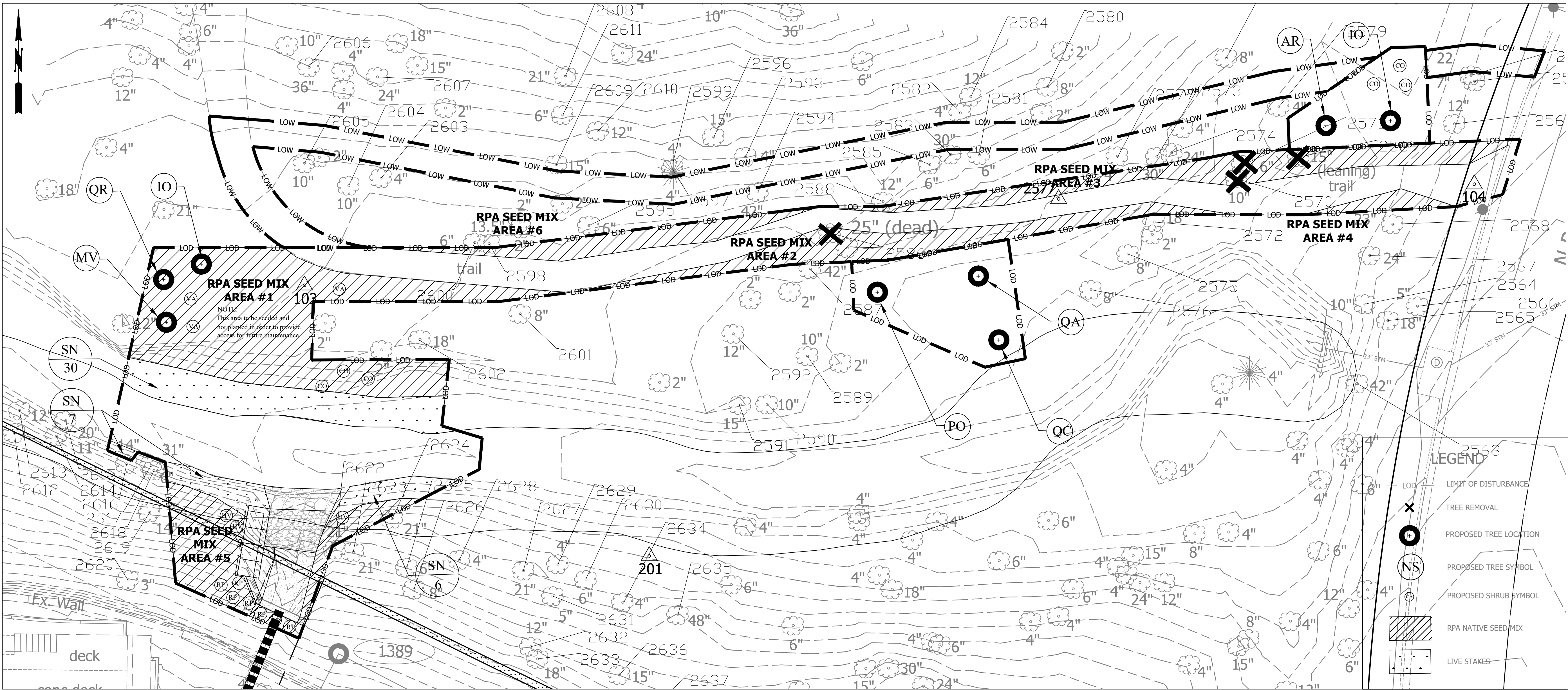
PLOTTED: MARCH 3 2023

SCALE:

N/A

C075.1

FILENAME: SS9D-214-EXISTING_CONDITIONS.DWG PATH: Q:\DATA\SS9D\DESIGN\CAD\ACTIVE PLOTTED BY: ML MORRIS



NOVA PARKS - TREE REPLACEMENT (Potomac Overlook Regional Park)								
TREE #	DBH	COMMON NAME	LATIN NAME	CONDITION	SPECIES RATING	REPLACEMENT VALUE	REPLACEMENT QUANTITY	NOTES
2569	14	Red Maple	Acer rubrum	0.40	0.95	5.32	5	
2570	7.5	Red Maple	Acer rubrum	0.20	0.95	1.43	1	
2571	6	Red Maple	Acer rubrum	0.60	0.95	3.42	3	
2586	13	Silver Maple	Acer saccharinum	0.00	0.70	0.00	1	Dead
							10	

RPA SEED MIX		
AREA #	SQUARE FOOTAGE	NOTES
1	1087	SEE RPA SEED MIX SPECS
2	353	
3	397	
4	55	
5	383	
6	202	
2,477		

Arlington County - Resource Protection Area Native Seed Mix

Percent of Mix (%)	Latin Name	Common Name
20	Lolium multiflorum	Annual rye
30	Elymus virginicus	Virginia wild rye
25	Panicum clandestinum	Deer-tongue grass
15	Elymus riparius	Riverbank wild rye
5	Elymus hystrix	Bottlebrush grass
2	Chamaecrista fasciculata	Partridge pea
1	Solidago rugosa	Rough-stemmed goldenrod
1	Asclepias syriaca	Common milkweed
1	Euthamia graminifolia	Grass-leaved goldenrod

Apply at 50 lbs/acre (2 lb/1000 sf) between August 15th and May 15th.

26th STREET OUTFALL REPAIR (Potomac Overlook Regional Park)
Plant List

TREES							
SYMBOL	SPECIES NAME	COMMON NAME	QUANTITY	SIZE	TYPE	NOTES	
AR	ACER RUBRUM	RED MAPLE	1	2-2.5' CAL	B&B		
MV	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA	1	2-2.5' CAL	B&B	Multi-trunked	
IO	ILEX OPACA	AMERICAN HOLLY	2	2-2.5' CAL	B&B		
PO	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	1	2-2.5' CAL	B&B		
QA	QUERCUS ALBA	WHITE OAK	1	2-2.5' CAL	B&B		
QC	QUERCUS COCCINEA	SCARLET OAK	1	2-2.5' CAL	B&B		
QR	QUERCUS RUBRA	RED OAK	1	2-2.5' CAL	B&B		
			8				

SHRUBS - 3 shrubs are equivalent to 1 tree						
SYMBOL	SPECIES NAME	COMMON NAME	QUANTITY	SIZE	TYPE	Equals x of Trees
RP	RHODODENDRON PERICLYMENOIDES	PINKTEARBLOOM AZALEA	7	3 GAL	B&B	2.33
CO	CEPHALANTUS OCCIDENTALIS	BUTTONBUSH	6	3 GAL	B&B	2.00
HV	HAMAMELIS VIRGINIANA	WITCH HAZEL	3	3 GAL	B&B	1.00
VA	VIBURNUM ACERIFOLIUM	MAPLE-LEAF VIBURNUM	3	3 GAL	B&B	1.00
			19			6.33

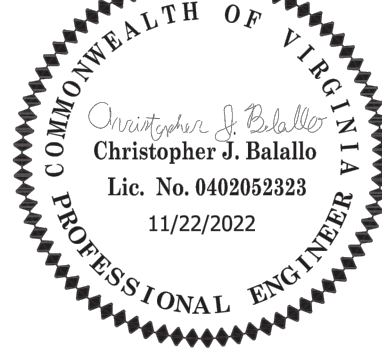
LIVE STAKES - 10 live stakes are equivalent to 1 tree						
SYMBOL	SPECIES NAME	COMMON NAME	QUANTITY	SIZE	TYPE	Equals x of Trees
SN	SALIX NIGRA	BLACK WILLOW	30	1"	LIVE STAKES	3
SN	SALIX NIGRA	BLACK WILLOW	13	1"	LIVE STAKES	1.3
			43			4.3
TOTAL NUMBER OF REPLACEMENT TREES						18.63

TOTAL NUMBER OF REPLACEMENT TREES 18.63

NOTE: EVERY 3 SHRUBS ARE EQUIVALENT TO 1 TREE. EVERY 10 LIVE STAKES ARE EQUIVALENT TO 1 TREE

1. PLANTS SHALL BE FURNISHED AND INSTALLED AS INDICATED ON THE LANDSCAPE PLAN.
2. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, AND COMPLY WITH MOST RECENT ANSI Z60.1 STANDARDS.
3. PLANTS SHALL BE PLANTED ON THE DAY OF DELIVERY. IF THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE-DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD SHALL BE REJECTED. ALL PLANTS KEPT ON SITE FOR ANY PERIOD SHOULD BE WATERED AND CARED FOR USING ANSI A300 STANDARDS.
4. NO STAKES SHALL BE USED TO STABILIZE TREES, UNLESS DIRECTED BY THE ARLINGTON COUNTY URBAN FORESTER.
5. TREES PLANTED SHALL RECEIVE A 3 INCH THICK LAYER OF SHREDDED HARDWOOD MULCH, IN A 6 FOOT RING SURROUNDING THE TREE, WITH A 6 INCH CLEAR AREA NEAR THE TRUNK.
6. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE ROOT BALL ONLY.
7. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOP SOIL THAT IS IN MUDDY OR FROZEN CONDITION. TREES AND SHRUBS SHALL BE INSTALLED BETWEEN SEPTEMBER 15TH AND DECEMBER 15TH OR BETWEEN MARCH 15TH AND JUNE 15TH. CONTACT THE ARLINGTON COUNTY URBAN FORESTER TO OBTAIN A DEFERRAL OR APPROVAL FOR PLANTING OUT OF SEASON.
8. NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED WITHIN TWO FEET OF A SIDEWALK, 5 FEET FROM A FENCE, 10 FEET FROM A BUILDING, OR 15 FEET FROM OVERHEAD UTILITY LINES.
9. TREES AND SHRUBS SHALL BE PLANTED IN HOLES TWO TO THREE TIMES AS WIDE AND TO THE DEPTH OF THE ROOT BALL.
10. PLANTS SHALL BE PLANTED IN HEALTHY, UNCOMPACTED SOIL. SEE THE PLANTING DETAIL FOR SOIL SPECIFICATIONS.
11. SET ALL PLANTS PLUMB AND STRAIGHT AT SUCH LEVEL THAT NORMAL OR NATURAL RELATIONSHIP BETWEEN THE PLANT AND THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE THE PLANT IN THE CENTER OF THE PIT.
12. INJURED ROOTS SHALL BE PRUNED TO CLEAN ENDS BEFORE PLANTING WITH CLEAN, SHARP TOOLS. THE LEADER OF TREES SHALL NOT BE CUT BACK.
13. AT THE END OF THE PROJECT, PRESERVED AND PLANTED TREES MUST BE INSPECTED AND APPROVED BY AN ARLINGTON COUNTY URBAN FORESTER.
14. ROOT PRUNE BY HAND AROUND GABION EXCAVATION TO MINIMIZE IMPACT TO TREES. ROOT PRUNING MUST BE COORDINATED WITH THE ARLINGTON COUNTY URBAN FORESTER AT THE PRE CONSTRUCTION MEETING.
15. ALL NEW PLANTING AREAS MUST BE WATERED FOR TWO YEARS USING WATER BLADDERS OR EQUIVALENT PRACTICE. EQUIVALENT PRACTICE MUST BE APPROVED BY THE DEPARTMENT OF PARKS AND RECREATION'S URBAN FORESTER.
16. ALL PLANTINGS MUST COME WITH A 1-YEAR WARRANTY.

SEAL



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	12/19/22
<i>[Signature]</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/6/23
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1/9/23
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	1/11/23
<i>Elizabeth Thumber</i> PROJECT MANAGER	2/27/2023

REVISIONS	DATE

26TH STREET N OUTFALL REPAIR

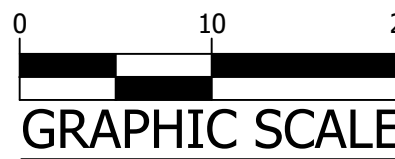
S59D
3837 26TH STREET N

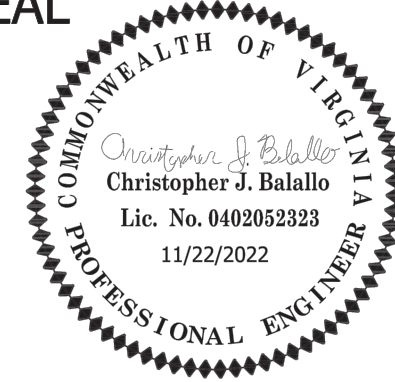
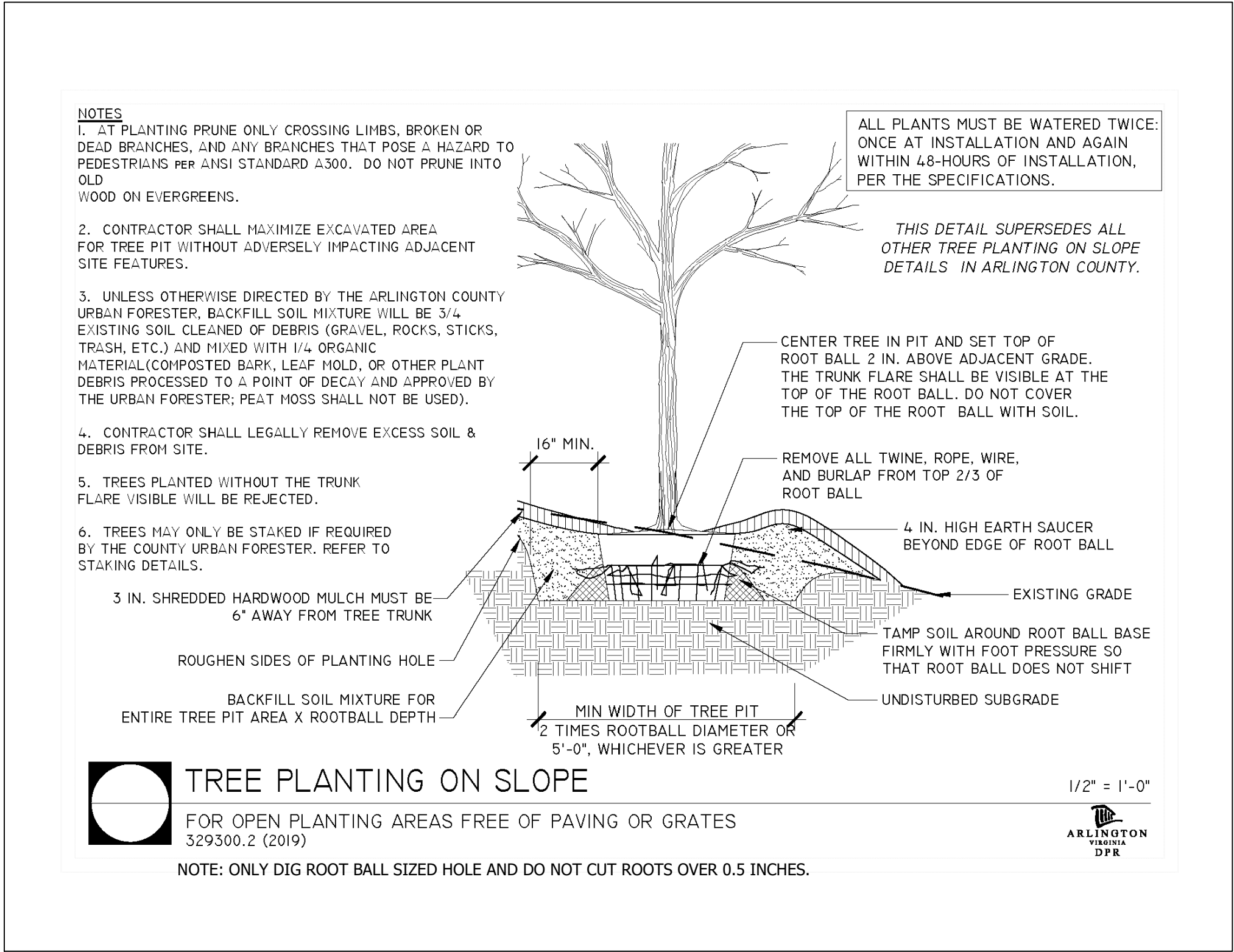
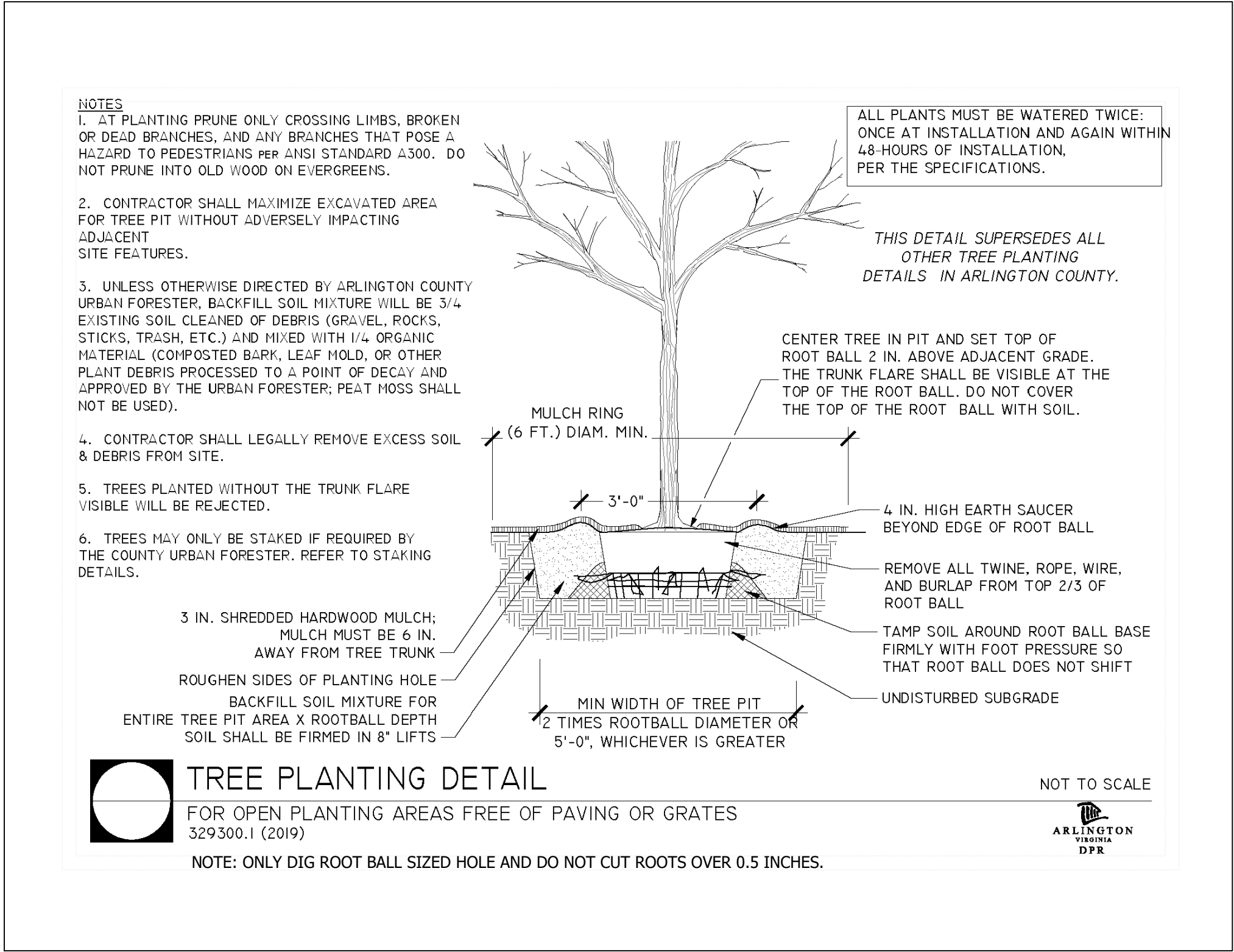
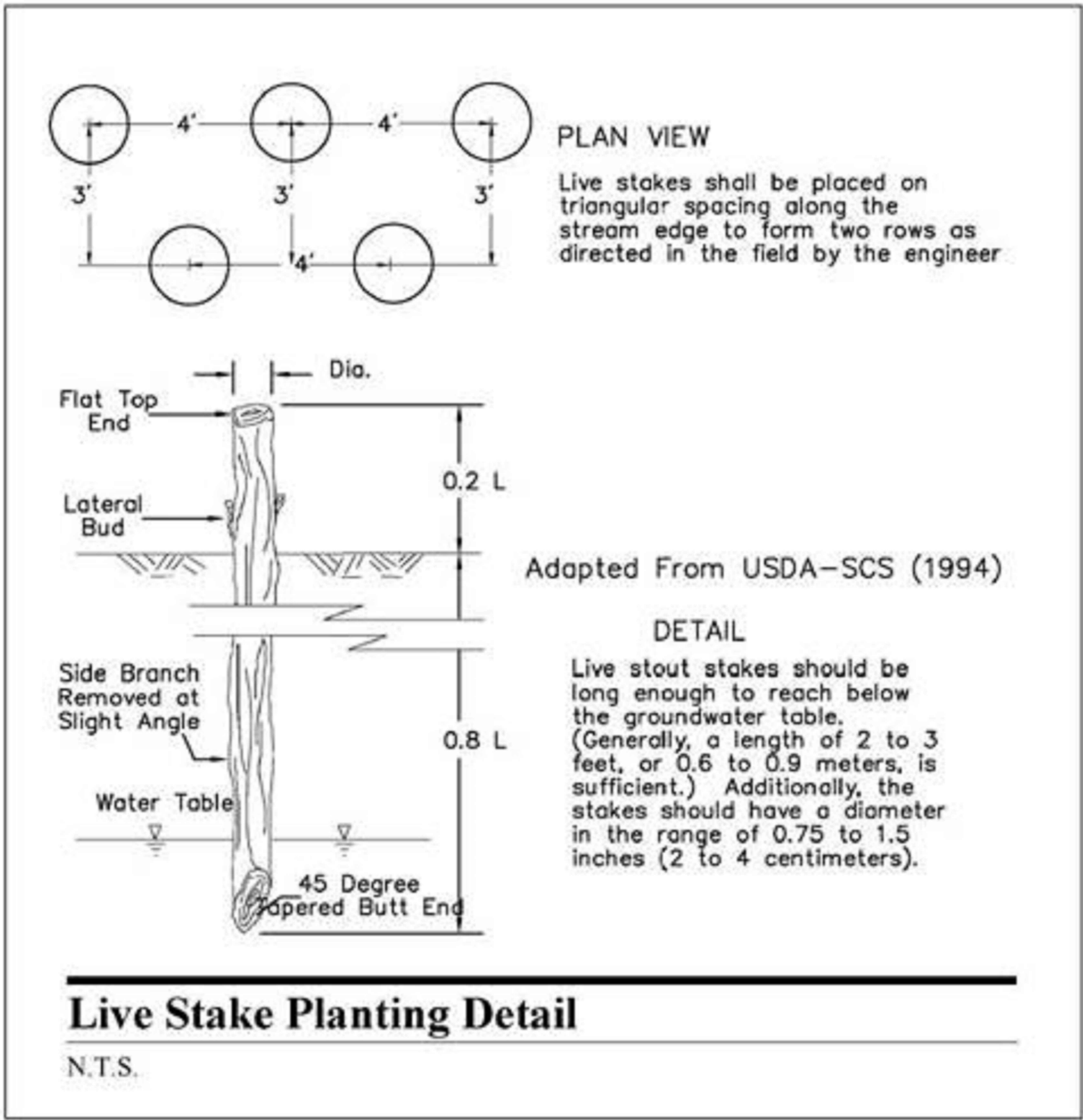
LANDSCAPING PLAN

DESIGNED: AG
DRAWN: AG
CHECKED: CB

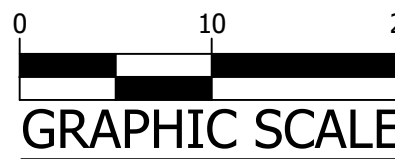
PLOTTED: MARCH 3 2023

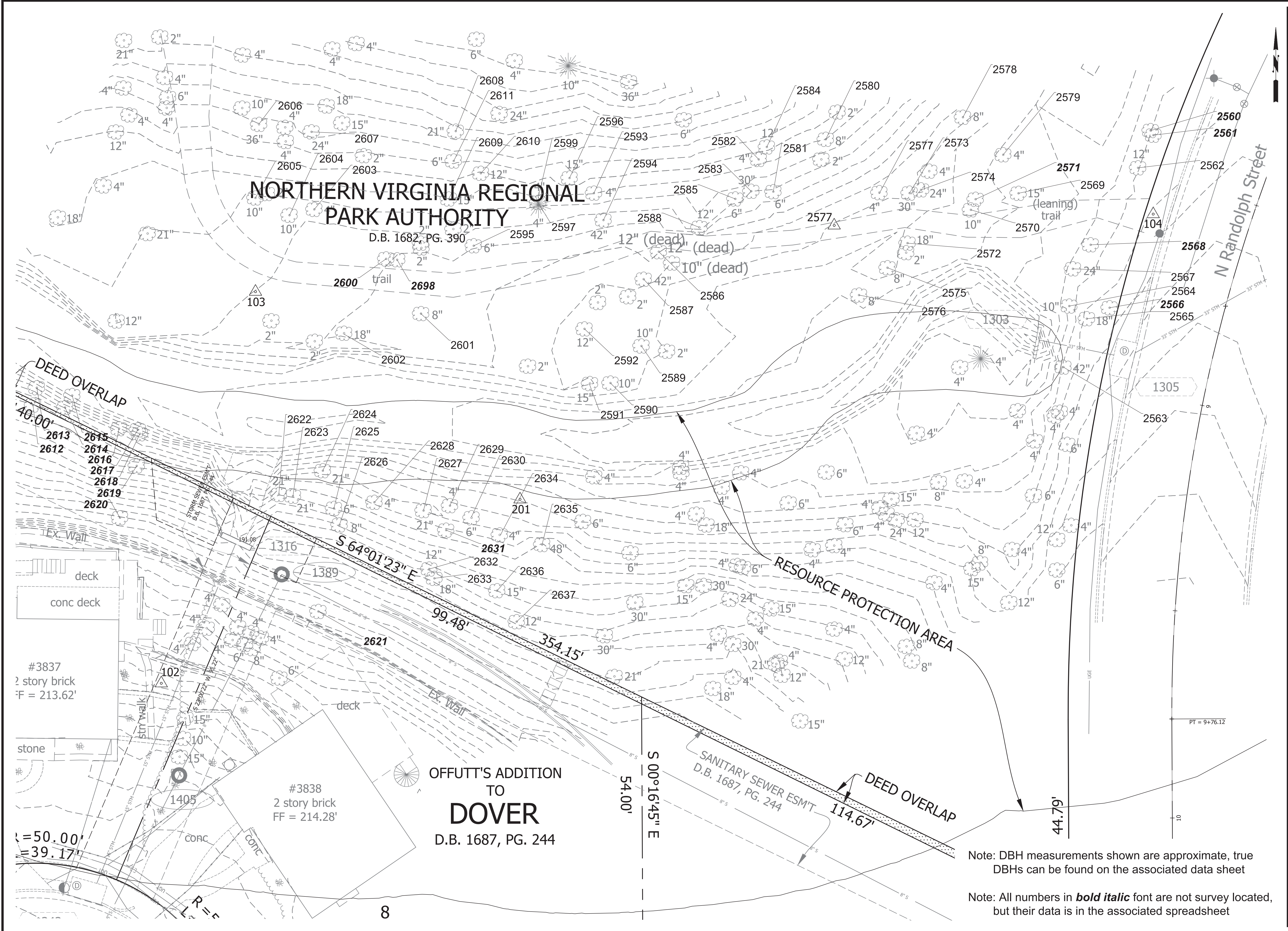
SCALE:






<i>Amy Pflaum</i>	12/19/22
QUALITY CONTROL ENGINEER	
<i>[Signature]</i>	1/6/23
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>[Signature]</i>	1/9/23
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	1/11/23
TRANSPORTATION DIRECTOR	
<i>Elizabeth Thumber</i>	2/27/2023
PROJECT MANAGER	







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

COPYRIGHT © 2018 ARLINGTON COUNTY
VIRGINIA - ALL RIGHTS RESERVED

SEAL

APPROVALS	DATE
Information relating to trees shown on this plan was field verified by Certified Arborist Robert Hayler (ISA Certified Arborist MA-5751) in June 2020	

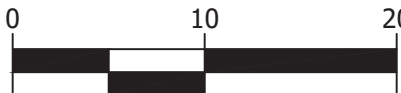
REVISIONS	DATE

26TH STREET N OUTFALL REPAIR
S59D
3837 26TH STREET N

TREE INVENTORY - SHEET 1 OF 2

DESIGNED: MM
DRAWN: MM
CHECKED:
PLOTTED: DECEMBER 8 2020

SCALE:



HORIZ. SCALE

Note: DBH measurements shown are approximate, true DBHs can be found on the associated data sheet

Note: All numbers in ***bold italic*** font are not survey located, but their data is in the associated spreadsheet

Survey Conducted: 6/15/2020

Potomac Overlook Regional Park, Arlington VA

Tree Number	DBH (inches)	Tree Species (common name)	Tree Species (scientific name)	Tree Height (ft)	Canopy Radius (ft)	Condition Rating (1-5)	Priority for Preservation Rating (1-4)	Notes of defects/issues	CRZ (sf)	CRZ Disturbed (%)
2560	22	Yellow Poplar	Liriodendron tulipifera	60	25	5	2		1521	25%
2561	7	Yellow Poplar	Liriodendron tulipifera	35	8	4	1		154	N/A
2562	5	Elm sp.	Ulmus sp.	22	8	5	2		79	50%
2563	27	Sycamore	Platanus occidentalis	70	25	5	4		2290	N/A
2564	6	Red Maple	Acer rubrum	25	8	4	2		113	N/A
2565	8	Red Maple	Acer rubrum	25	8	4	2		201	N/A
2566	5	Eastern Redbud	Cercis canadensis	15	3	2	1		79	N/A
2567	6	Red Maple	Acer rubrum	35	8	4	2		113	25%
2568	23	Yellow Poplar	Liriodendron tulipifera	85	20	4	2		1662	35%
2569	14	Red Maple	Acer rubrum	30	10	2	1	Leaning	616	N/A
2570	7.5	Red Maple	Acer rubrum	20	5	1	1		177	N/A
2571	6	Red Maple	Acer rubrum	33	15	3	2		113	N/A
2572	14	Yellow Poplar	Liriodendron tulipifera	70	10	4	2		616	35%
2573	22	Yellow Poplar	Liriodendron tulipifera	80	8	4	2		1521	25%
2574	26	Yellow Poplar	Liriodendron tulipifera	85	15	4	2		2124	25%
2575	7	Red Maple	Acer rubrum	36	8	4	2		154	30%
2576	7	Red Maple	Acer rubrum	23	6	3	2		154	N/A
2577	3.5	Pignut Hickory	Carya glabra	35	8	5	2		38	N/A
2578	22	White Oak	Quercus alba	100	16	5	3		1521	N/A
2579	6	Pignut Hickory	Carya glabra	40	5	4	2		113	N/A
2580	11	Red Maple	Acer rubrum	30	7	3	2		380	N/A
2581	4	Pin Cherry	Prunus pensylvanica	20	6	5	2		50	N/A
2582	24	Silver Maple	Acer saccharinum	120	12	4	3		1810	N/A
2583	5	Pin Cherry	Prunus pensylvanica	25	8	4	2		79	30%
2584	32	Red Oak	Quercus rubra	125	25	5	4		3217	N/A
2585	12	Yellow Poplar	Liriodendron tulipifera	40	6	4	1		452	N/A
2586	13	Silver Maple	Acer saccharinum	25	0	1	1	Dead	531	N/A
2587	30	Yellow Poplar	Liriodendron tulipifera	90	25	5	3		2827	25%
2588	42	Yellow Poplar	Liriodendron tulipifera	75	30	5	3		5542	45%
2589	13	Red Maple	Acer rubrum	42	7	4	2		531	N/A
2590	11	Red Maple	Acer rubrum	30	10	1	1	Dying	380	N/A
2591	12	Red Maple	Acer rubrum	55	18	4	2		452	N/A
2592	12	Red Maple	Acer rubrum	40	12	5	2		452	< 5%
2593	14	Yellow Poplar	Liriodendron tulipifera	70	15	3	2		616	N/A
2594	3	Pin Cherry	Prunus pensylvanica	15	6	4	1		28	20%
2595	4.5	Pin Cherry	Prunus pensylvanica	20	15	4	1	Dying	64	35%
2596	20	Yellow Poplar	Liriodendron tulipifera	80	12	4	2		1257	N/A
2597	21	Yellow Poplar	Liriodendron tulipifera	80	9	3	1		1385	N/A
2598	13.5	Red Maple	Acer rubrum	40	10	4	1		573	40%
2599	18	Silver Maple	Acer saccharinum	50	0	1	1	Dead	1018	N/A
2600	6	Pin Cherry	Prunus pensylvanica	35	8	5	2		113	40%
2601	7	Red Maple	Acer rubrum	45	12	5	1		154	30%
2602	17	Black Locust	Robinia pseudoacacia	75	10	2	2	Covered in Poison Ivy	908	50%
2603	10	Yellow Poplar	Liriodendron tulipifera	40	7	3	2		314	N/A
2604	3	American Beech	Fagus grandifolia	20	6	5	2		28	N/A
2605	13	Yellow Poplar	Liriodendron tulipifera	65	10	4	2		531	N/A
2606	3	Pin Cherry	Prunus pensylvanica	20	2	4	1		28	< 5%
2607	37	Yellow Poplar	Liriodendron tulipifera	130	15	5	3		4301	N/A
2608	27	Yellow Poplar	Liriodendron tulipifera	11	15	4	3		2290	N/A
2609	24	Yellow Poplar	Liriodendron tulipifera	11	15	4	3		1810	< 5%
2610	14	Yellow Poplar	Liriodendron tulipifera	100	12	4	2		616	N/A
2611	4.5	Red Maple	Acer rubrum	22	7	4	1		64	N/A
2612	30	Yellow Poplar	Liriodendron tulipifera	75	30	4	3		2827	5%
2613	12	Pignut Hickory	Carya glabra	40	5	3	2		452	N/A
2614	11	Yellow Poplar	Liriodendron tulipifera	60	12	4	2		380	< 5%
2615	20	Yellow Poplar	Liriodendron tulipifera	60	8	2	2	Tree is leaning	1257	15%
2616	14	Yellow Poplar	Liriodendron tulipifera	90	20	4	2		616	35%
2617	31	Yellow Poplar	Liriodendron tulipifera	25	0	1	1	Dead	3019	50%
2618	6	Pignut Hickory	Carya glabra	35	6	4	1		113	40%
2619	14	Pignut Hickory	Carya glabra	65	8	4	2		616	40%
2620	3	Red Oak	Quercus rubra	10	4	5	2		28	N/A
2621	12	Norway Spruce	Picea abies	50	10	4	2		452	N/A
2622	17	Red Oak	Quercus rubra	80	14	4	3		908	55%
2623	21	Red Oak	Quercus rubra	80	14	4	3		1385	50%
2624	18	Pignut Hickory	Carya glabra	100	15	4	3		1018	50%
2625	5	American Beech	Fagus grandifolia	40	15	4	1		79	N/A
2626	6	Red Maple	Acer rubrum	37	8	4	1		113	N/A
2627	4	American Beech	Fagus grandifolia	25	10	4	1		50	N/A
2628	3	Pin Cherry	Prunus pensylvanica	20	4	4	1		28	N/A
2629	17	Pignut Hickory	Carya glabra	80	20	4	3		908	N/A
2630	3	American Beech	Fagus grandifolia	12	5	5	2		28	N/A
2631	5	Pignut Hickory	Carya glabra	35	7	4	2		79	N/A
2632	11	Pignut Hickory	Carya glabra	60	13	3	2		380	N/A
2633	18	American Beech	Fagus grandifolia	75	10	5	3		1018	N/A
2634	4.5	Pin Cherry	Prunus pensylvanica	35	6	5	2		64	N/A
2635	41	Red Oak	Quercus rubra	90	30	4	4		5281	N/A
2636	14	Pignut Hickory	Carya glabra	85	12	5	3		616	N/A
2637	12	American Beech	Fagus grandifolia	35	17	5	3		452	N/A

SEAL

APPROVALS

DATE

Information relating
to trees shown on
this plan was field
verified by Certified
Arborist Robert
Hayler (ISA Certified
Arborist MA-5751) in
June 2020

REVISIONS

DATE

26TH STREET N OUTFALL REPAIR
S59D
3837 26TH STREET N

TREE INVENTORY - SHEET 2 OF 2