

# FINAL PLAN SIGNATURES

DATE: January 18, 2022

TO: Amy Pflaum, County Standards Engineer, DES  
 Kamal 'Nick' Taktak, Construction Management Supervisor, DES  
 Dave Hundelt, Planning Supervisor, WSS Bureau, DES  
 Dennis Leach, Deputy Director, Transportation and Development, DES  
 John Mir, Project Manager, Facilities Design & Construction Bureau, DES

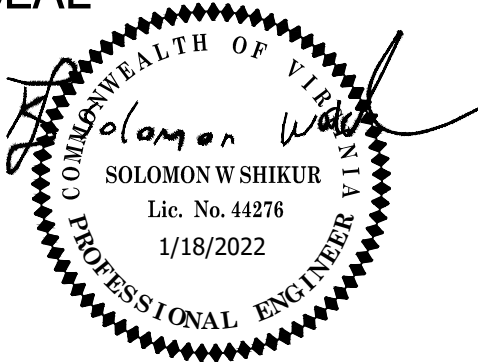
FROM: Sara Buckley, Design Engineer

PROJECT: SLT1 - NORTHSIDE SALT STORAGE SITE  
 SE CORNER OF OLD DOMINION DR & 26TH ST N

ATTACHMENT: FINAL DESIGN PLAN SET (26 SHEETS)

Attached you will find the final design plan for the above-referenced project. Please conduct a final review of the set to confirm all the comments have been addressed. Once your final review is complete, please sign your name in your designated space on the signature block below, ensuring both your signature and date stay within the borders. Upon receiving all signatures, the signature block will be inserted into each sheet of the final design plan set to be included in the construction documents.

SEAL



APPROVALS DATE

Amy Pflaum 01/18/22  
 QUALITY CONTROL ENGINEER  
Adam E Kulawy 1/20/22  
 CONSTRUCTION MANAGEMENT SUPERVISOR  
[Signature] 1.21.2022  
 WATER, SEWER, STREETS BUREAU CHIEF  
Dennis M. Leach 01/27/22  
 TRANSPORTATION DIRECTOR  
John Mir 1/27/22  
 PROJECT MANAGER

Reviewing Bureau/Agency	Reviewer	Review Completed Date
TE&O (Traffic Signal, MOT Plan, Pavement Markings and Signage)	Nazia Ahzan	12/21/2021
Transit	Diane Trent/Mark Mainardi	12/09/2021
Water, Sewer, Streets	Jon Lawler	1/18/2022
DPR Forestry and Landscaping	Vincent Verweij	12/23/2021
Engineering Bureau	Amy Pflaum	12/15/2021
Transportation Planning	Allison Bullock	12/09/2021
Facilities Design & Construction	John Mir	12/09/2021
OSEM	Christine Simpson	12/13/2021
DPR Planning and Development	Walter Gonzalez	12/16/2021
Development Services	Diana McColgan	12/09/2021
Construction	Mannan Qureshi	1/4/2022

For 100% Signature Submissions only:  
 I certify that all required approvals (LDA, WMATA, VDOT, TEO, etc) have been secured.

[Signature]  
 Design Team Supervisor

NOTE: DO NOT FORWARD. PLEASE RETURN THE PLAN SET AND THIS SIGNATURE SHEET TO SARA BUCKLEY.

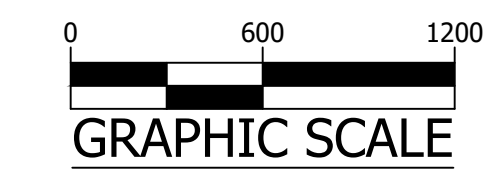
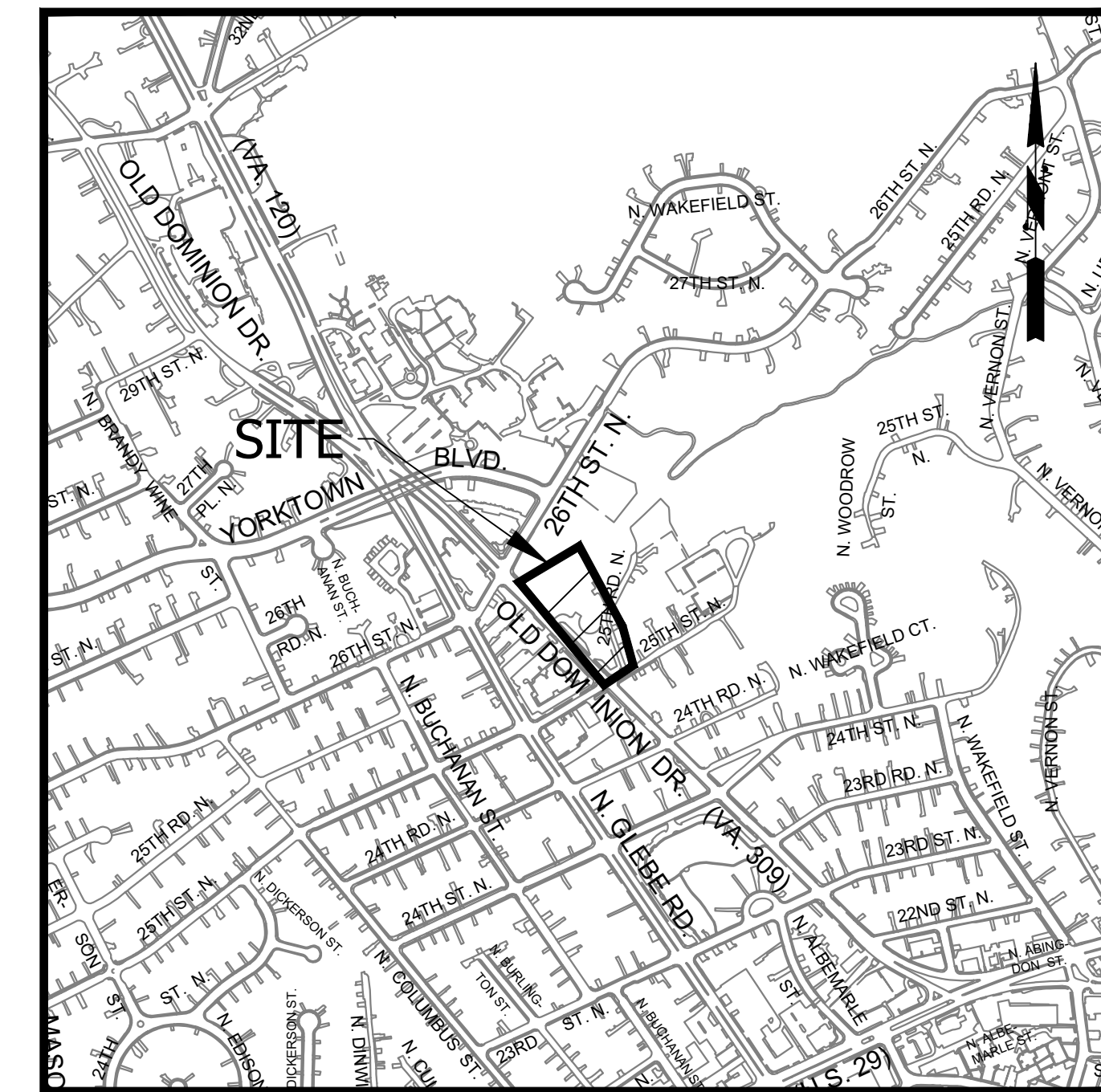
# ARLINGTON VIRGINIA

**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:

# NORTHSIDE SALT STORAGE SITE SE CORNER OF OLD DOMINION DR & 26TH ST N

PROJECT NUMBER: SLT1

## 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 Table

SHEET NUMBER	SHEET TITLE
C000.1	COVER SHEET
C002.1	DETAILS - 1
C002.2	DETAILS - 2
C006.1	LEGEND
C011.1	EXISTING CONDITIONS PLAN
C021.1	DEMOLITION PLAN
C031.1	EROSION AND SEDIMENT CONTROL PLAN PHASE 1
C031.2	EROSION AND SEDIMENT CONTROL PLAN PHASE 2
C031.3	TREE PROTECTION AND REMOVAL PLAN
C031.4	TREE INVENTORY
C031.5	TREE PLANTING PLAN
C032.1	EROSION AND SEDIMENT CONTROL NOTES
C032.2	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C035.1	SWPPP
C041.1	SITE PLAN
C041.2	GRADING PLAN
C045.1	GEOMETRIC CONTROL PLAN
C071.1	STORM SEWER DRAINAGE DIVIDES (PRE-EXISTING)
C071.2	STORM SEWER DRAINAGE DIVIDES (PROPOSED)
C073.1	STORM SEWER PROFILES
C075.1	STORM COMPUTATIONS
C082.1	SWM NOTES AND DETAILS
C083.1	SWM PLAN
C085.1	SWM CALCULATIONS
C085.2	STORMWATER DETENTION CALCULATIONS
C121.1	MAINTENANCE OF TRAFFIC PLAN

PROJECT NOTE: IF APPLICABLE, THE ON-CALL CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE APPROVED MOT PLAN BY THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES.

**SWM #18-0199**  
**LDA-41281**

### ADT

14,000 - OLD DOMINION DR BETWEEN 22ND ST N AND N GLEBE RD - 2019 - VDOT TRAFFIC STUDY

### STREET CLASSIFICATION

OLD DOMINION DRIVE - MAJOR ARTERIAL  
25TH STREET NORTH - MINOR ARTERIAL

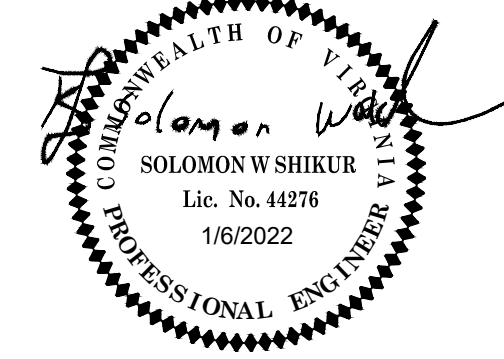
### POSTED SPEED

OLD DOMINION DRIVE - 30 MPH  
25TH STREET NORTH - 25 MPH

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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### SEAL



### APPROVALS DATE

<i>Amy Pflaum</i>	01/18/22
QUALITY CONTROL ENGINEER	
<i>Adam E. Sulawski</i>	1/20/22
CONSTRUCTION MANAGEMENT SUPERVISOR	
<i>John M. Leach</i>	1.21.2022
WATER, SEWER, STREETS BUREAU CHIEF	
<i>Dennis M. Leach</i>	01/27/22
TRANSPORTATION DIRECTOR	
<i>John M. Leach</i>	1/27/22
PROJECT MANAGER	

### REVISIONS DATE

REVISIONS	DATE

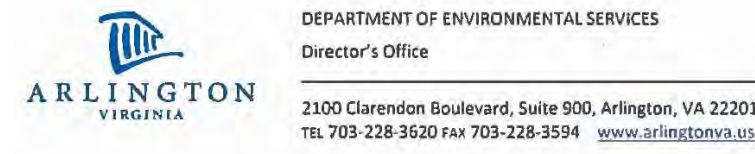
NORTHSIDE SALT STORAGE SITE  
SLT1  
SE CORNER OF OLD DOMINION DR & 26TH ST N  
COVER SHEET

DESIGNED: SEB  
DRAWN: SEB  
CHECKED: SWS

PLOTTED: JANUARY 6 2022

SCALE:

PARTIAL EXCEPTION TO POST-CONSTRUCTION STORMWATER MANAGEMENT REQUIREMENTS FOR PROJECT #LDA18212 (SWM#18-0199)



October 1, 2018

Mr. George May, P.E. Deputy Director, DES Facilities and Engineering 1400 N. Uhle Street, Suite 403 Arlington, VA 22201

Re: Temporary salt storage structure at Old Dominion Drive and 25th Street North, SWM No.18-0199

Dear Mr. May:

Your request for a partial exception to the post-construction stormwater management (SWM) requirements of Arlington County's Stormwater Management Ordinance (560-11.A of the County Code) for the land disturbing activity related to the above-named project is approved, subject to the following conditions:

- 1. You must provide on-site detention and conveyance of stormwater to mitigate impacts from the temporary salt storage structure to adjacent properties and the downstream storm drainage system, per your approved plans.
2. The temporary structure shall be in place for no more than five (5) years from the date of LDA permit issuance.
3. The stormwater compliance calculations for the permanent development of the site shall use the existing site conditions (prior to the installation of any temporary structures) as the baseline. Your current LDA plan must show these baseline computations.

These conditions shall be reflected in the design and mitigation measures and details shown on your project's grading plan, LDA18212, before it will be approved.

In granting this exception with conditions, I have concluded that the required findings established under Section 60-11.D of the County Code have been met due to the following considerations:

- Finding (i). The exception is the minimum necessary to afford relief. The condition that the temporary use provide on-site detention and conveyance of stormwater to mitigate impacts to adjacent properties and the downstream storm drainage system satisfies this finding.

- Finding (ii). Reasonable and appropriate conditions are imposed so that the intent of the Act, the Regulations, and this chapter are preserved. The conditions imposed above satisfy this finding.

- Finding (iii). Granting the exception will not confer any special privileges that are denied in other similar circumstances. The critical public safety function of the facility is unique. There are not other parties in similar circumstances regulated under the code. In addition, the requirements that the temporary structure be removed within five (5) years and that the permanent development use existing conditions as the baseline means that full compliance with Chapter 60 will ultimately be required.

- Finding (iv). Exception requests are not based upon conditions or circumstances that are self-imposed or self-created. The determination that the current facility is unsafe occurred in May 2018, without sufficient time to plan, design, and construct a new permanent facility before the start of the winter snow season. I have concluded that this is not a self-imposed or self-created circumstance.

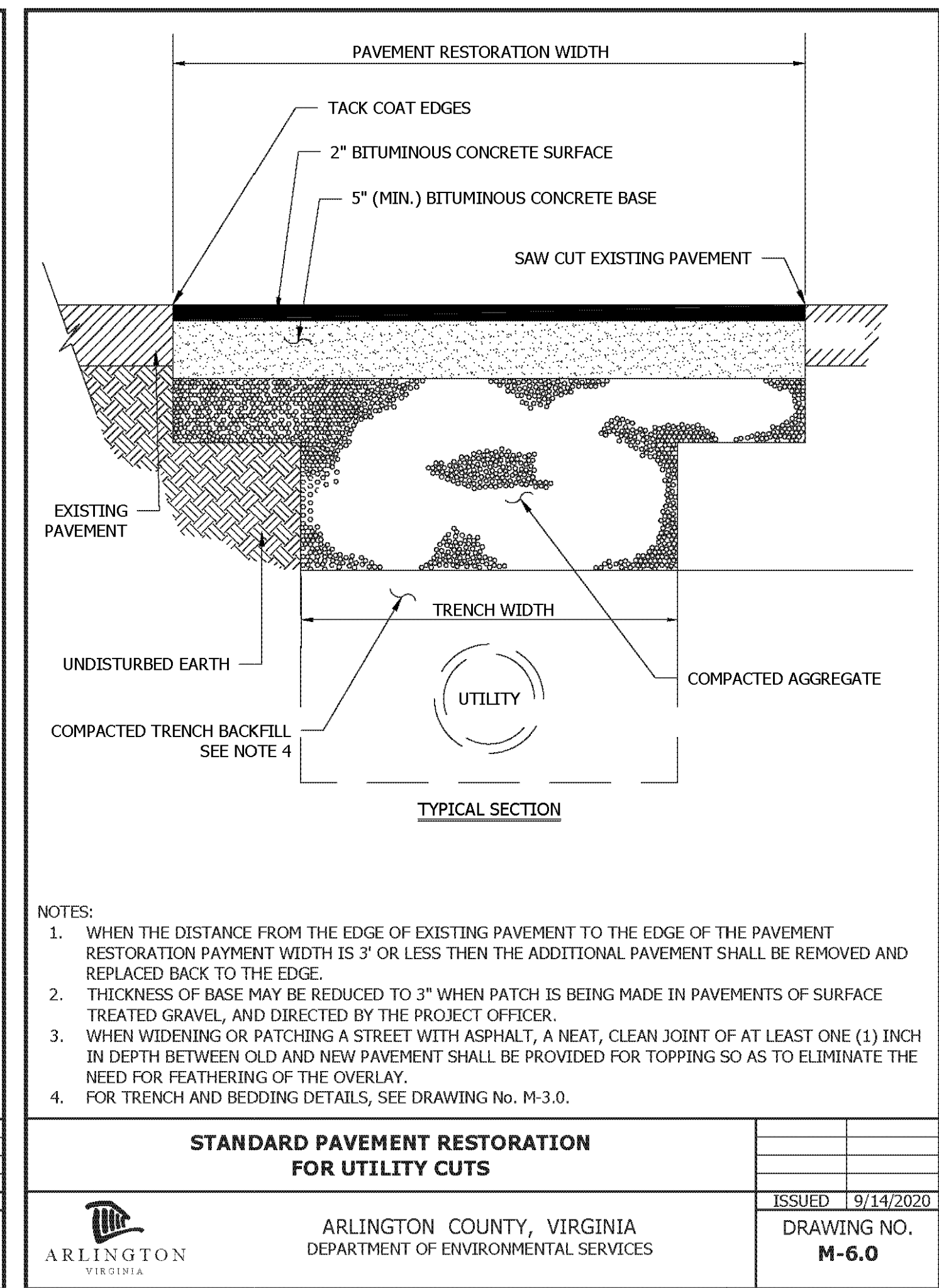
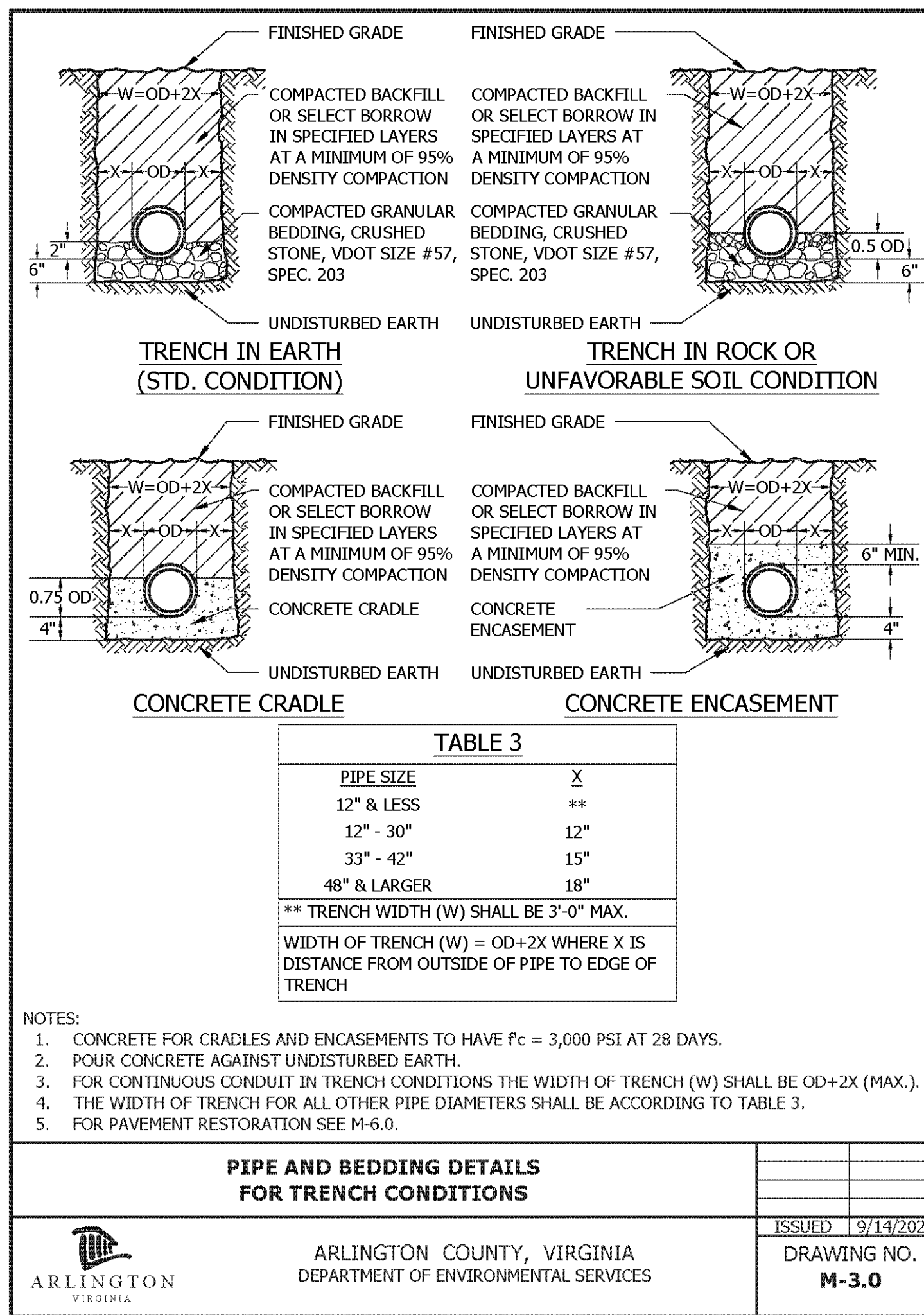
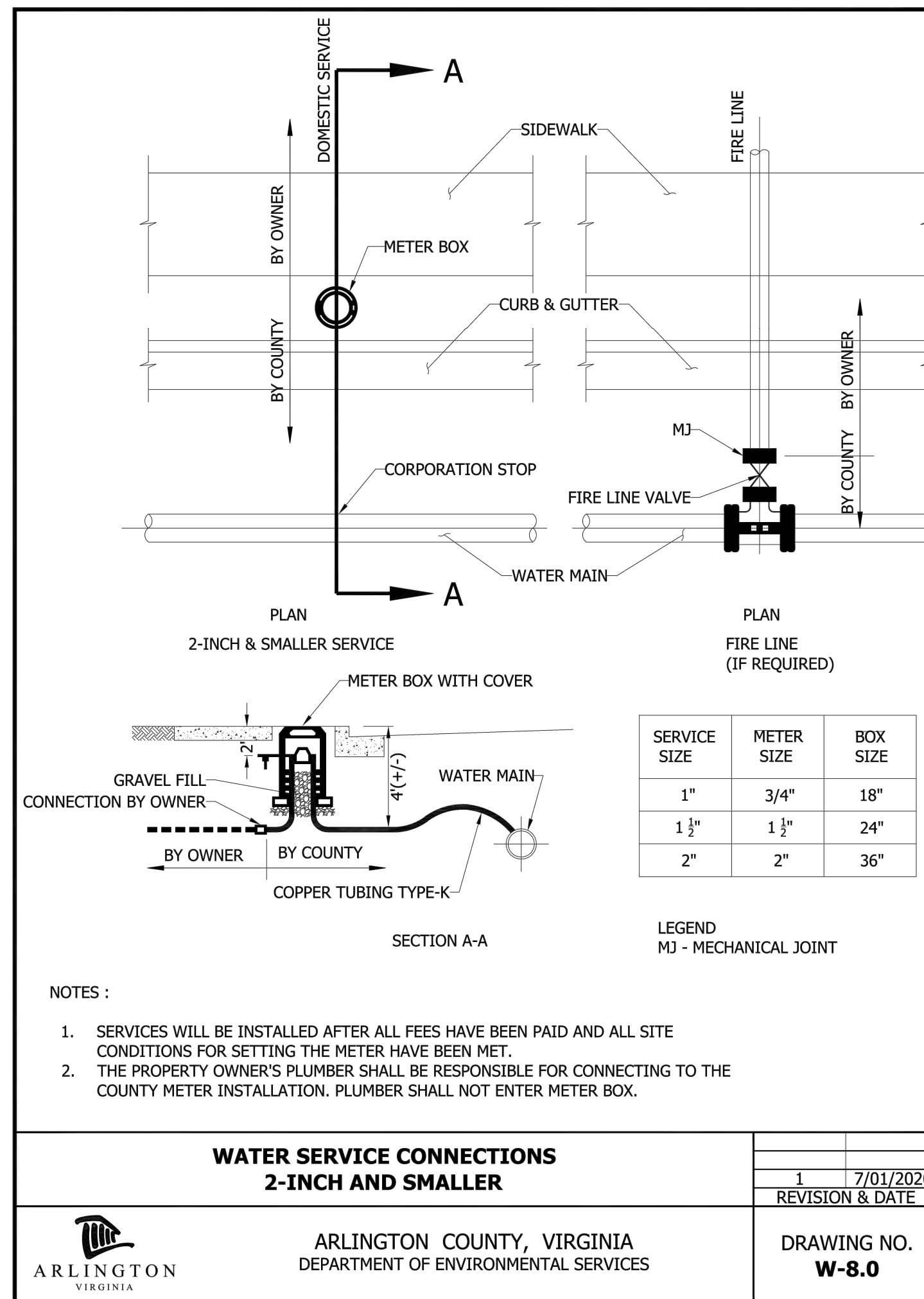
In addition, although not a requirement of Chapter 60, I am noting in this letter that your landscape plan must document, in addition to the usual requirement to provide tree condition, tree removal, and tree replacement computations, the quantity of replacement trees required should any of the trees that have been pruned fail to survive. These replacement trees shall be provided with the implementation of the permanent plan.

Thank you for your efforts to work with my team to address the stormwater compliance challenges for this project. If you have any additional questions, please contact Qianqian Li at 703) 228-0129 or qli@arlingtonva.us.

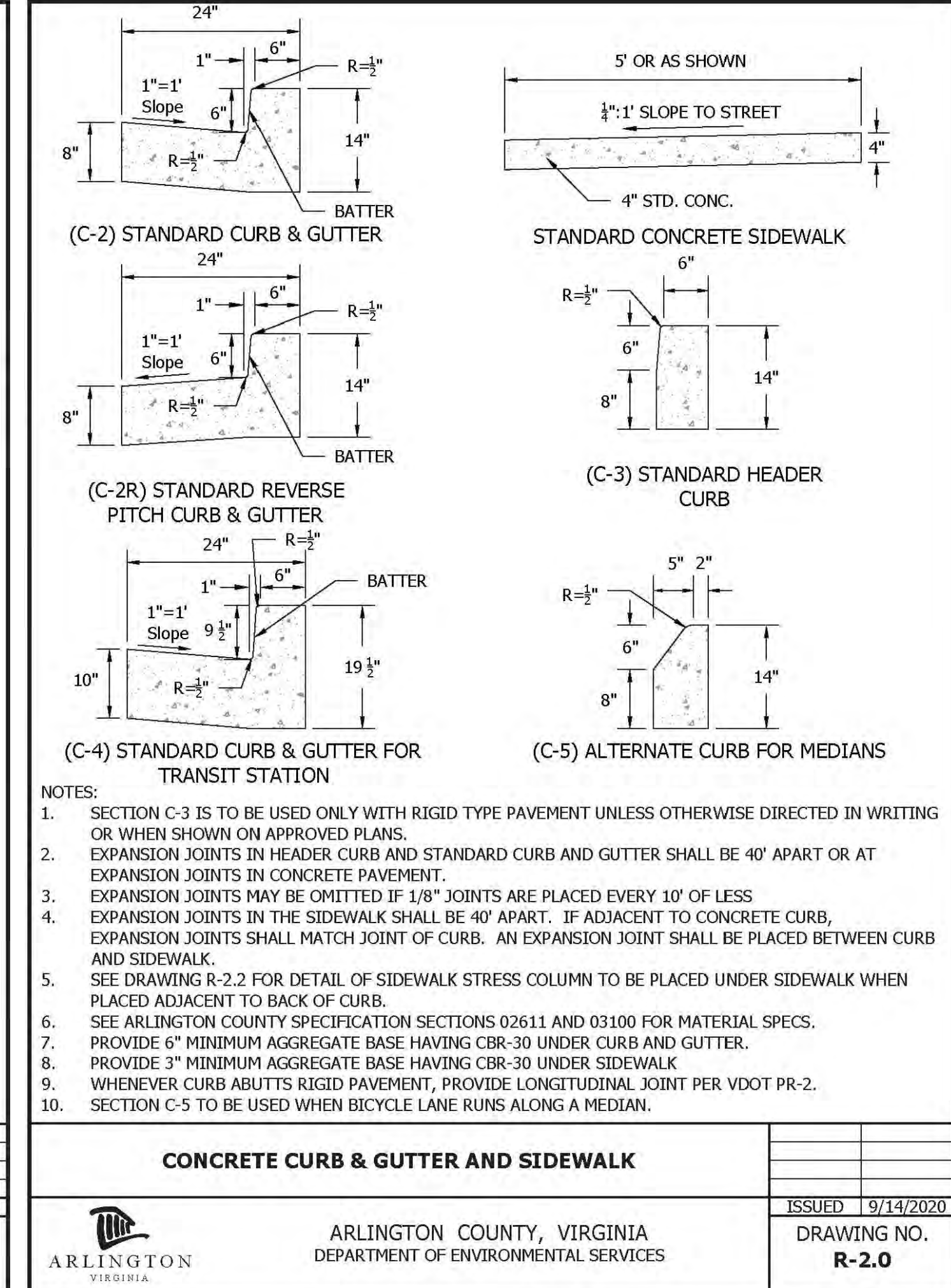
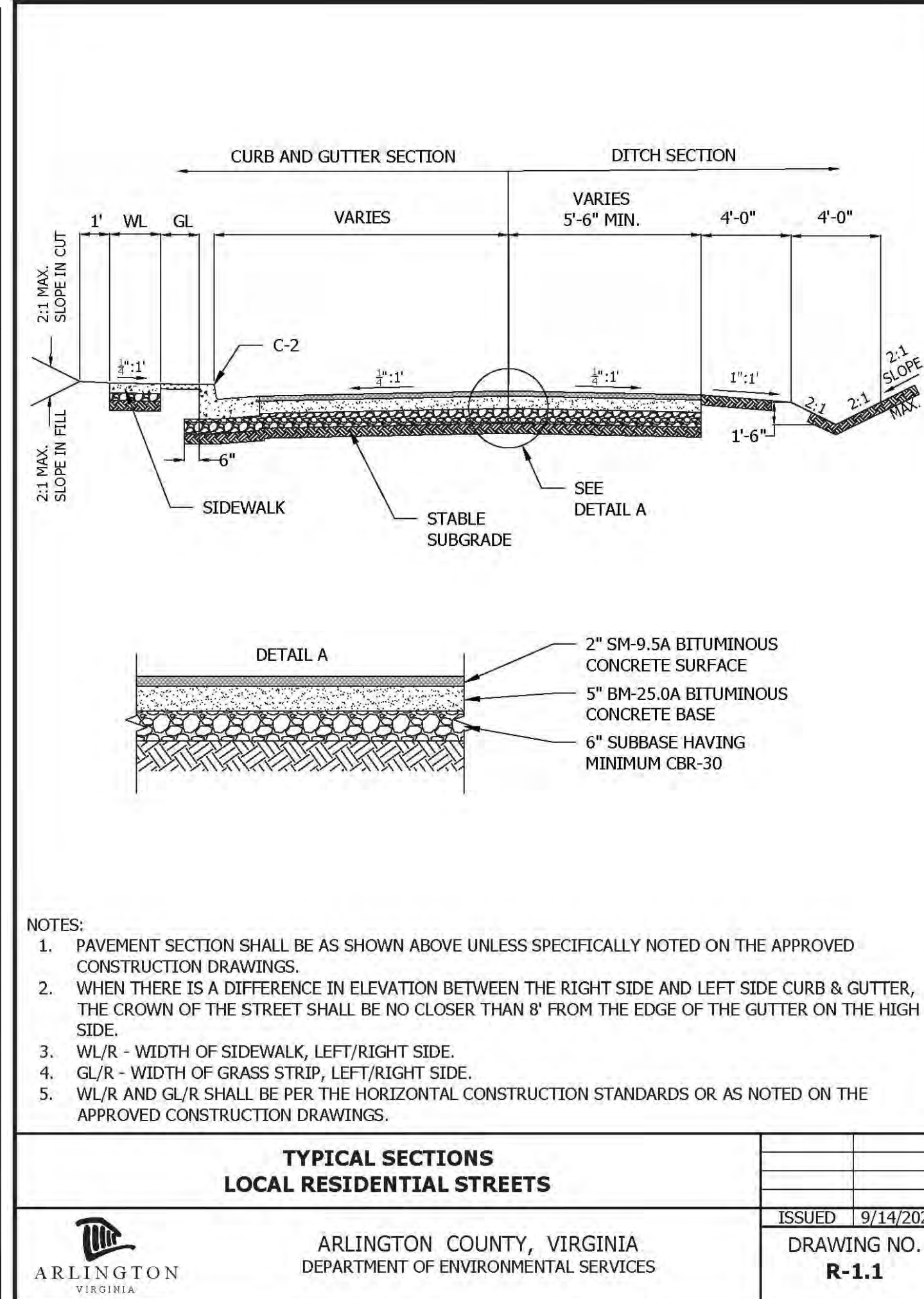
Sincerely,

Greg Emanuel Director

- cc: Luis Araya, DES/DS; Lisa Maher, DES/DS; Qianqian Li, DES/DS; Demetra McBride, DES/OSEM; Jason Papacosma, DES/OSEM; Julie Massie, CAO

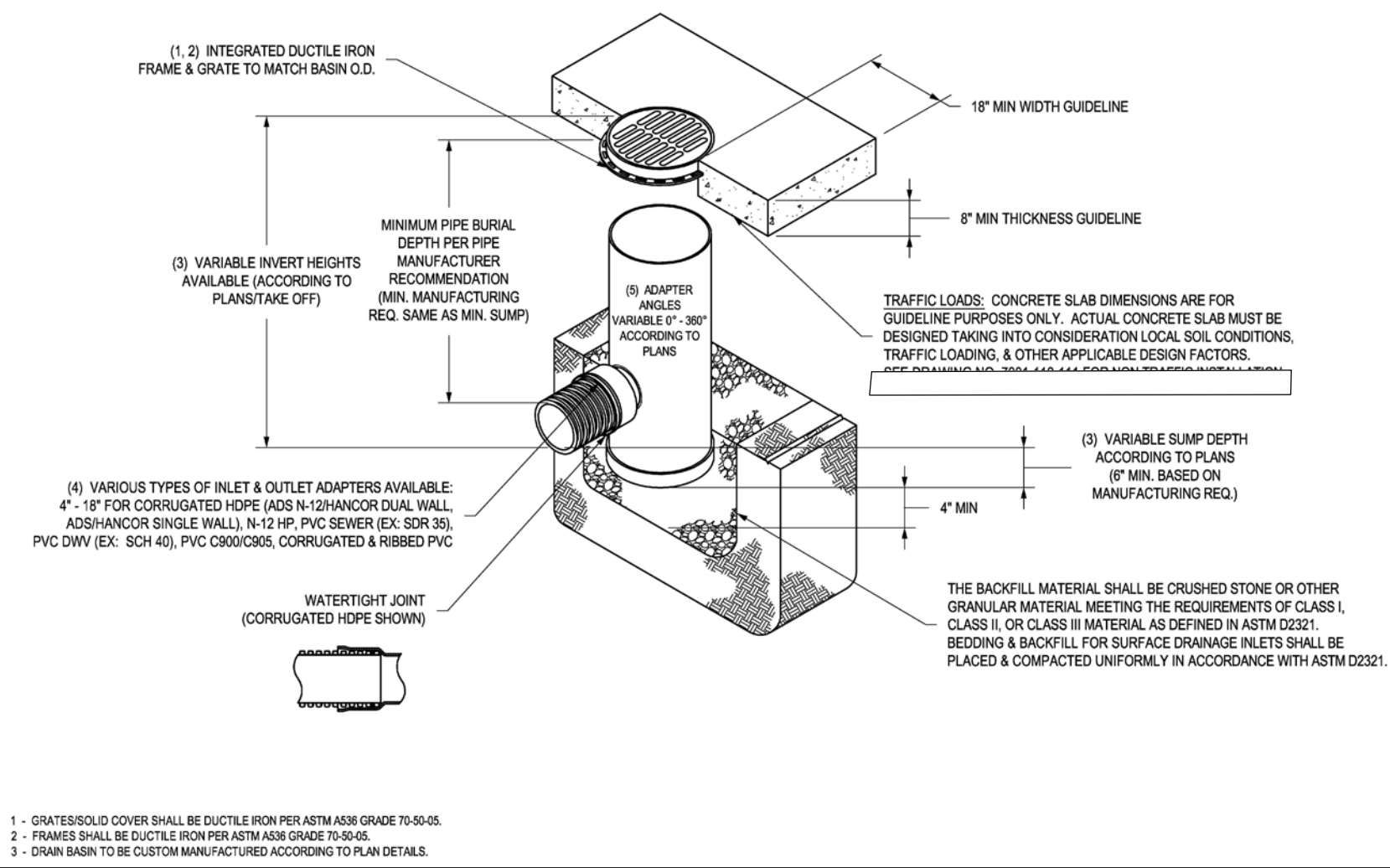


ARLINGTON VIRGINIA logo, Department of Environmental Services contact info, professional seal of Solomon W. Shkur, and approval/revision table.

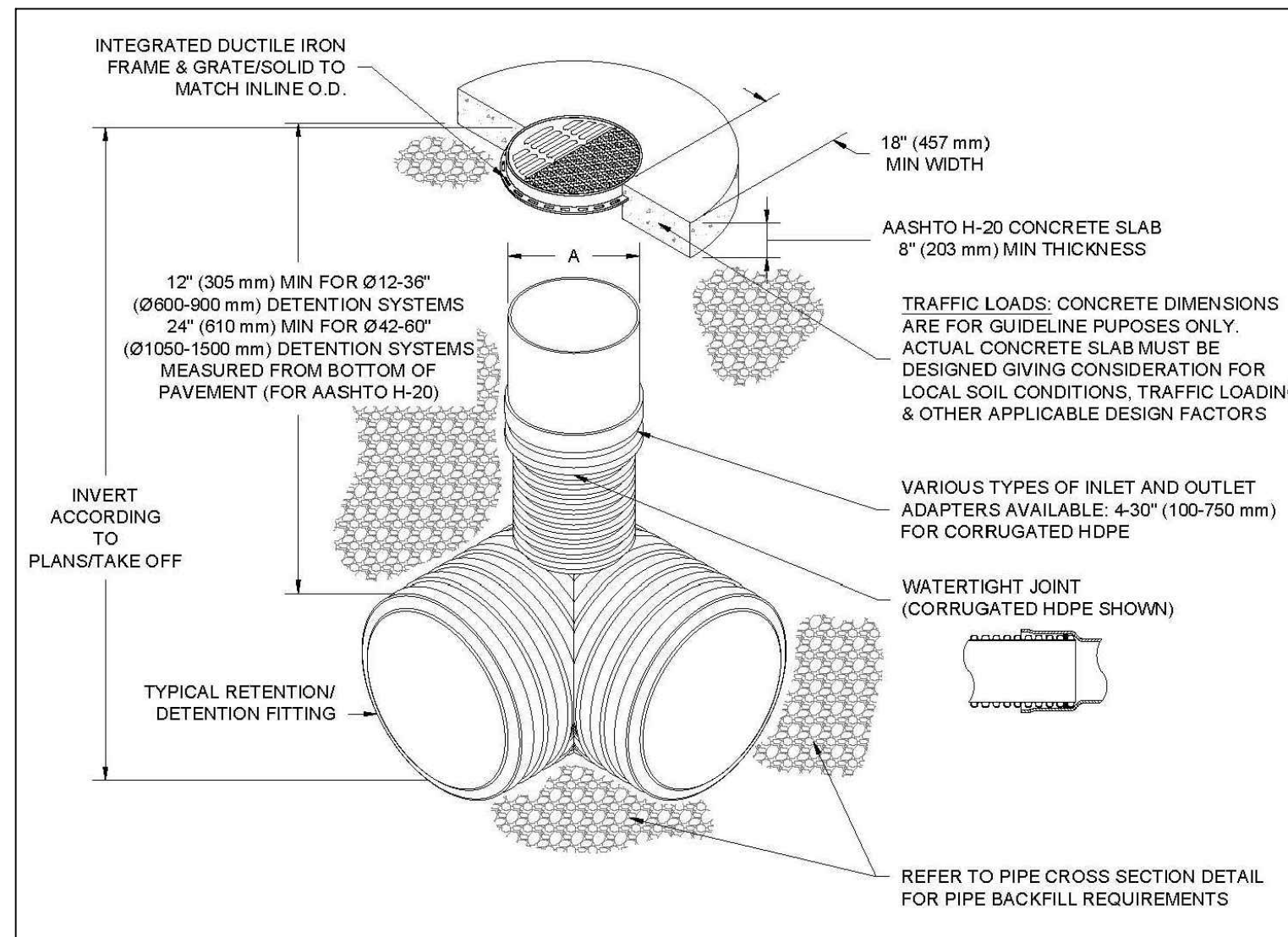


ARLINGTON VIRGINIA logo, Department of Environmental Services contact info, project name 'NORTHSIDE SALT STORAGE SITE', and drawing title 'DETAILS - 1'.

### TYP. 18" DRAIN BASIN

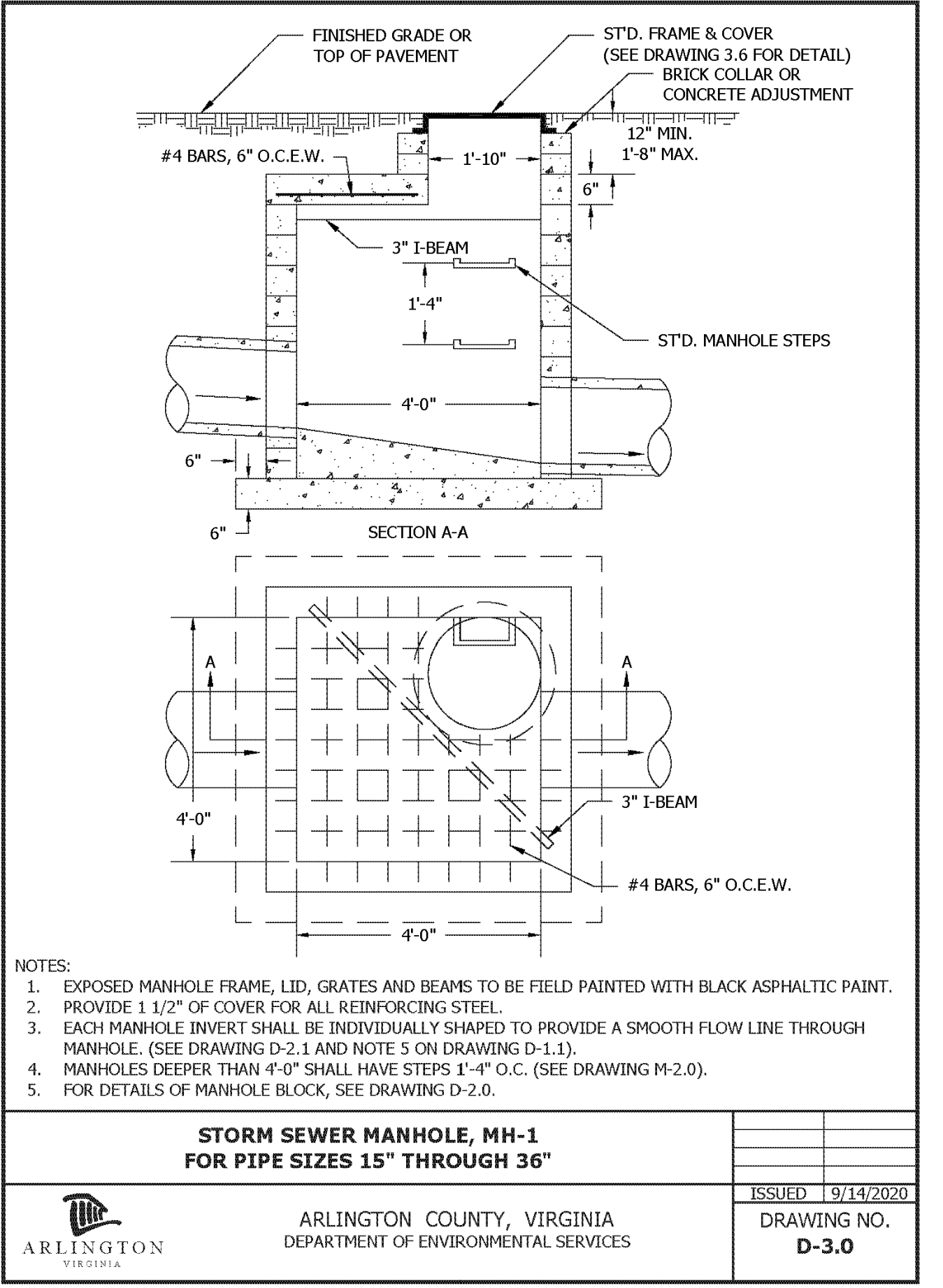
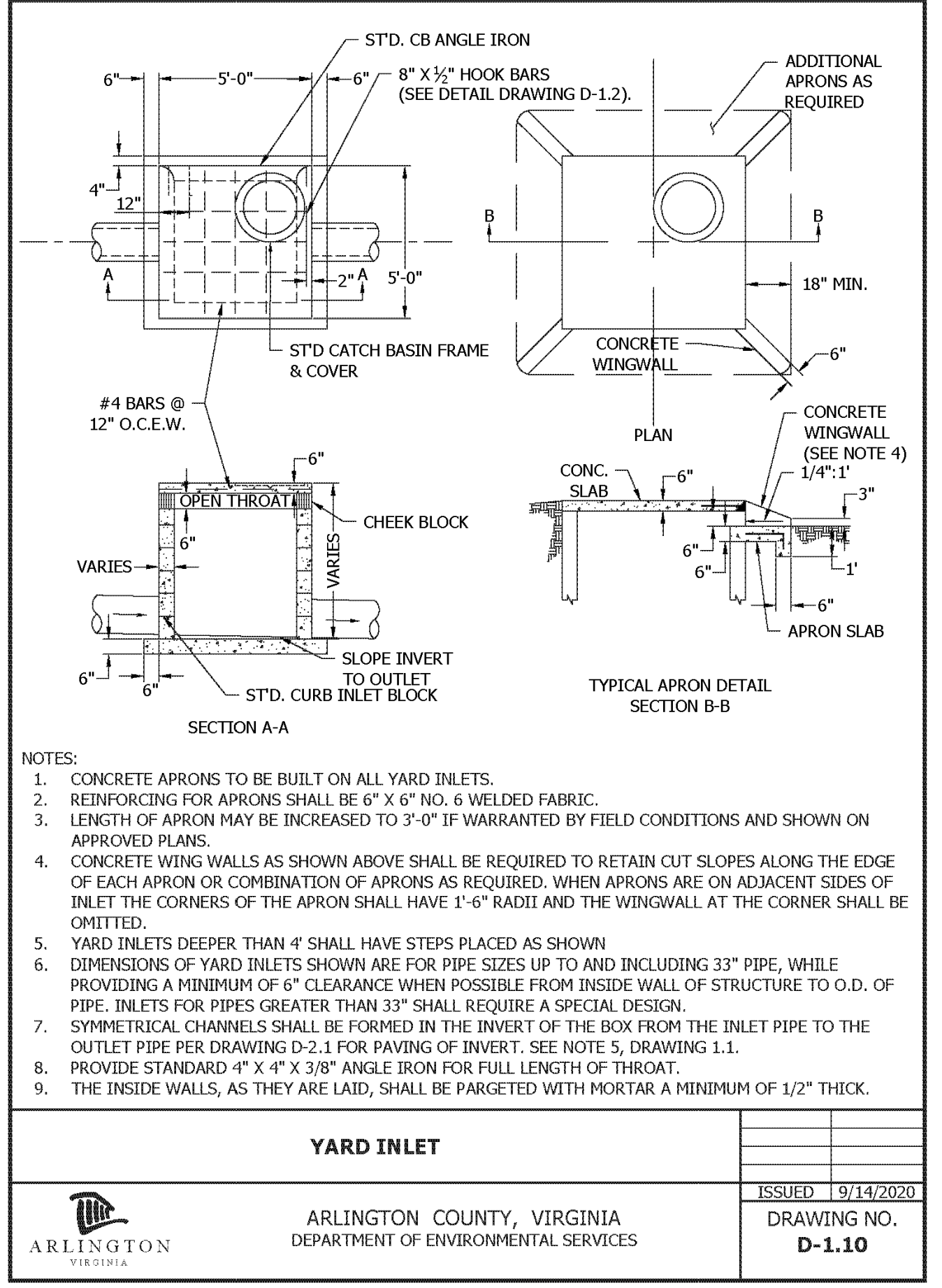
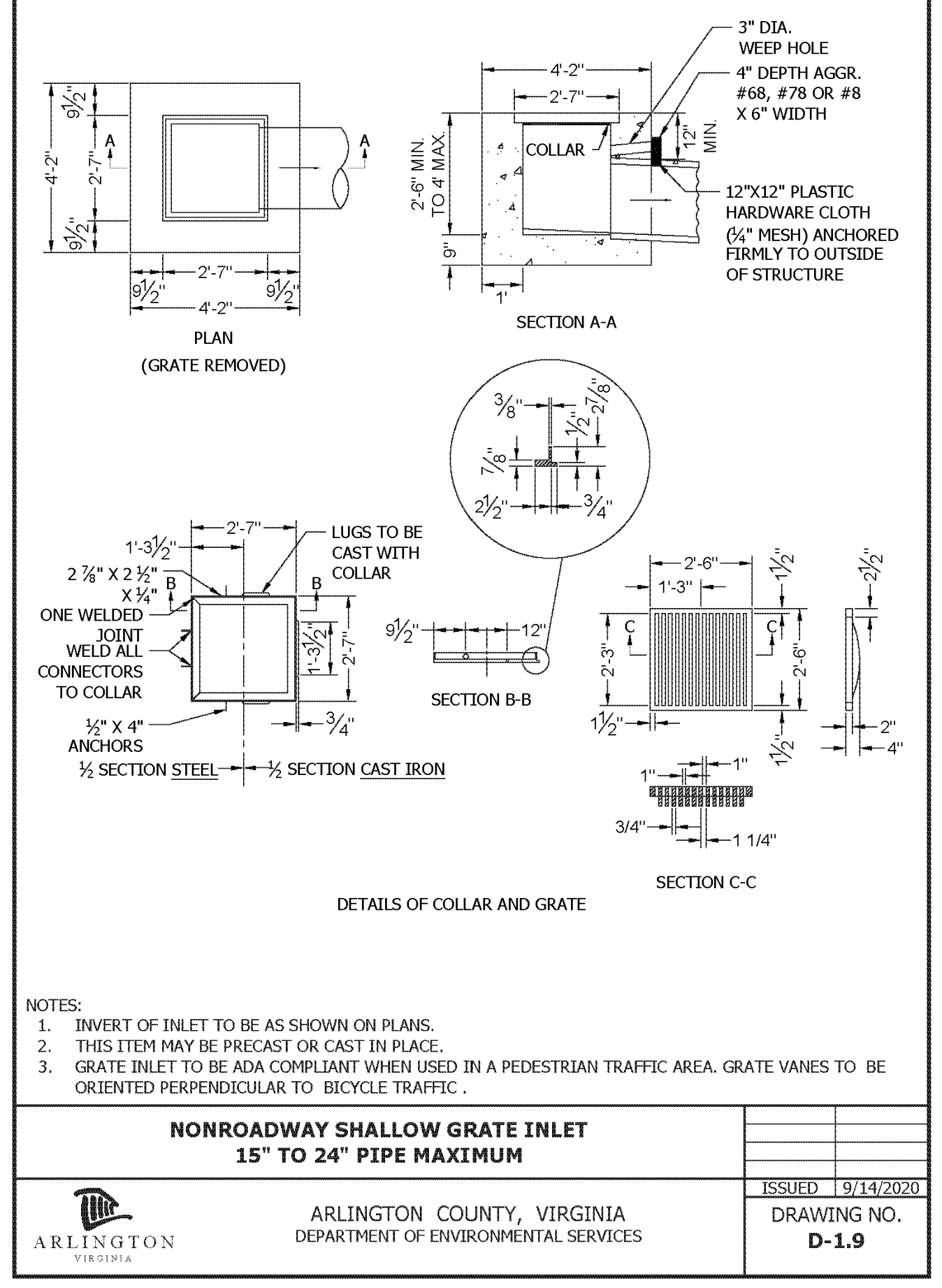
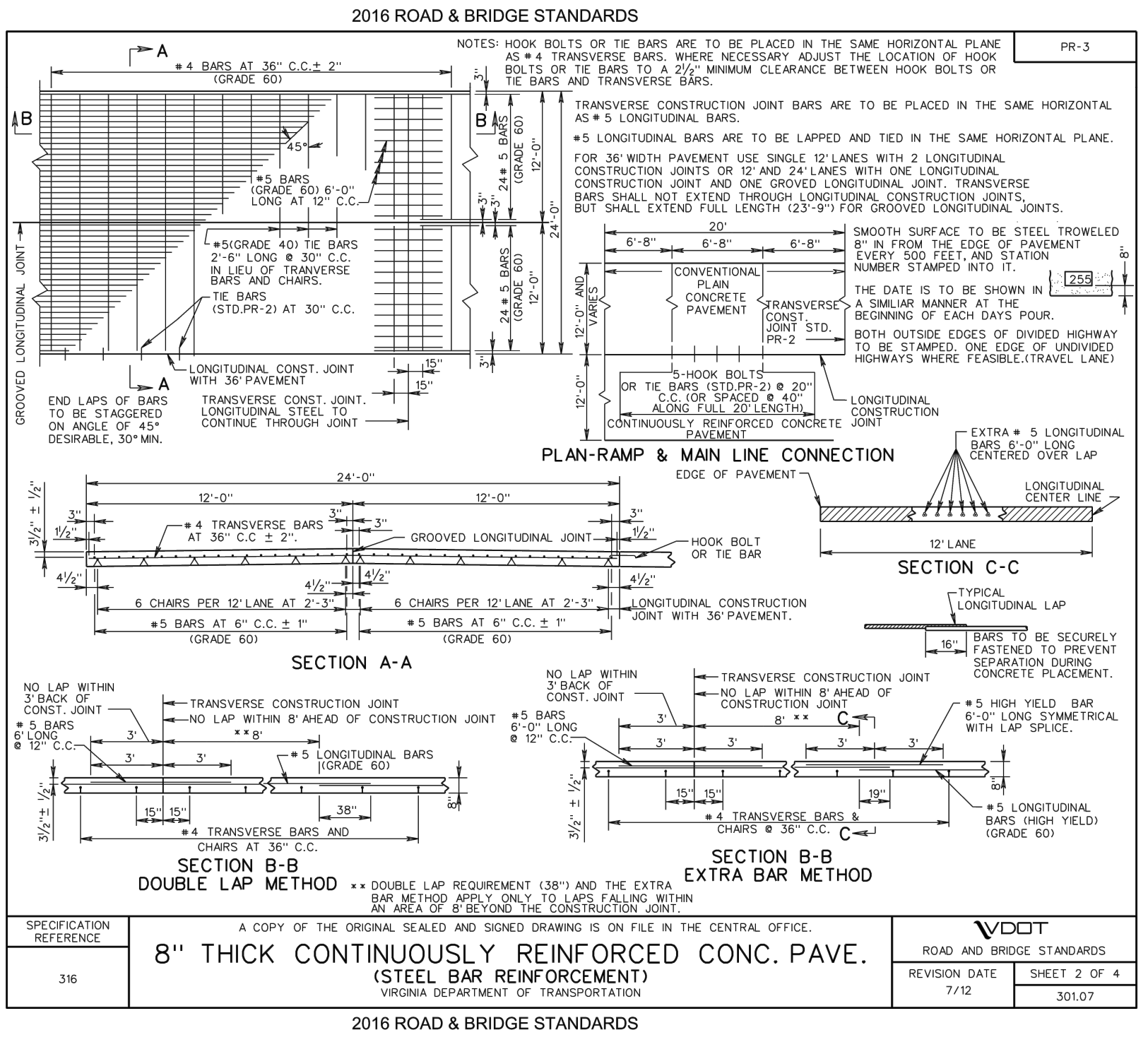
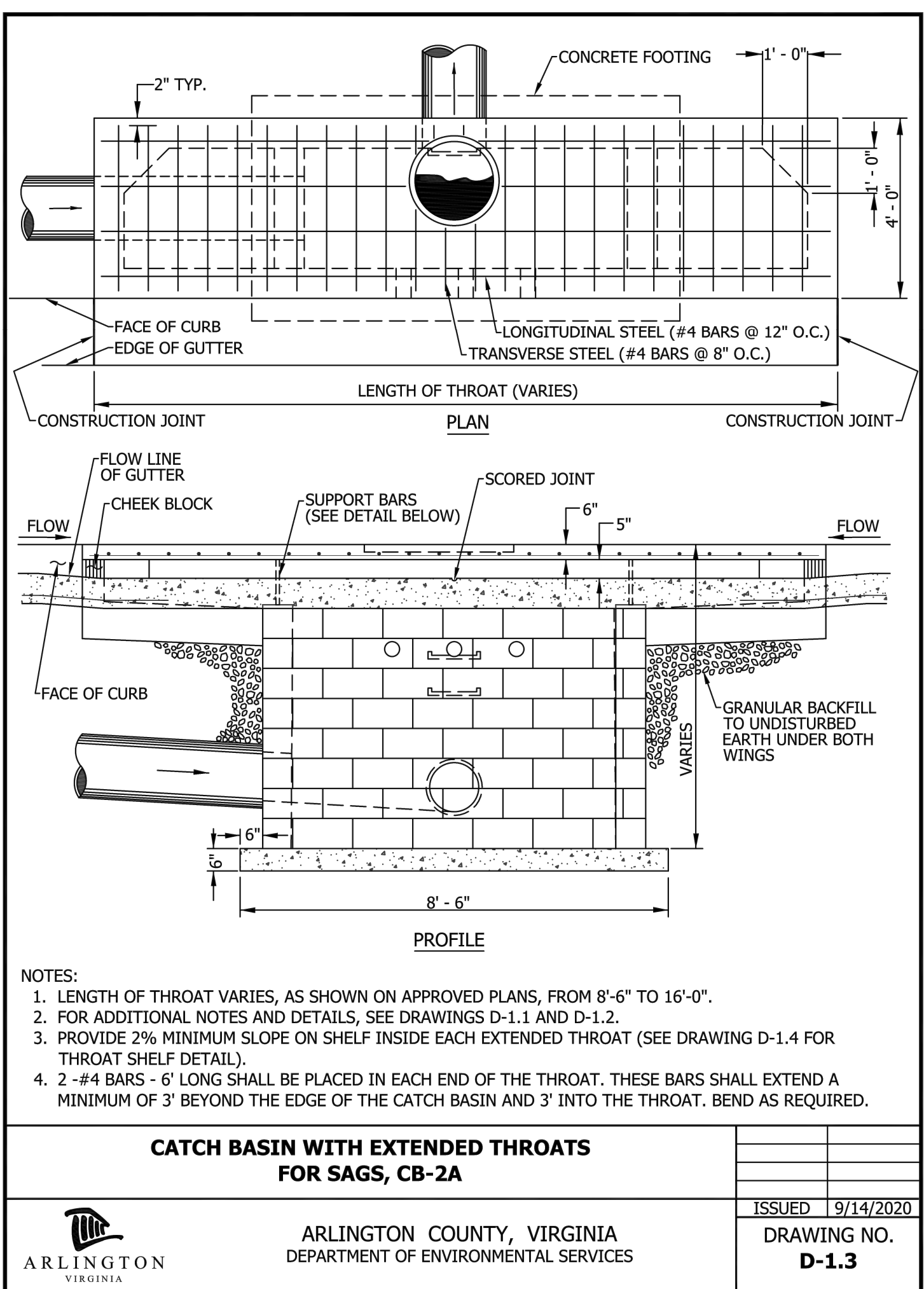
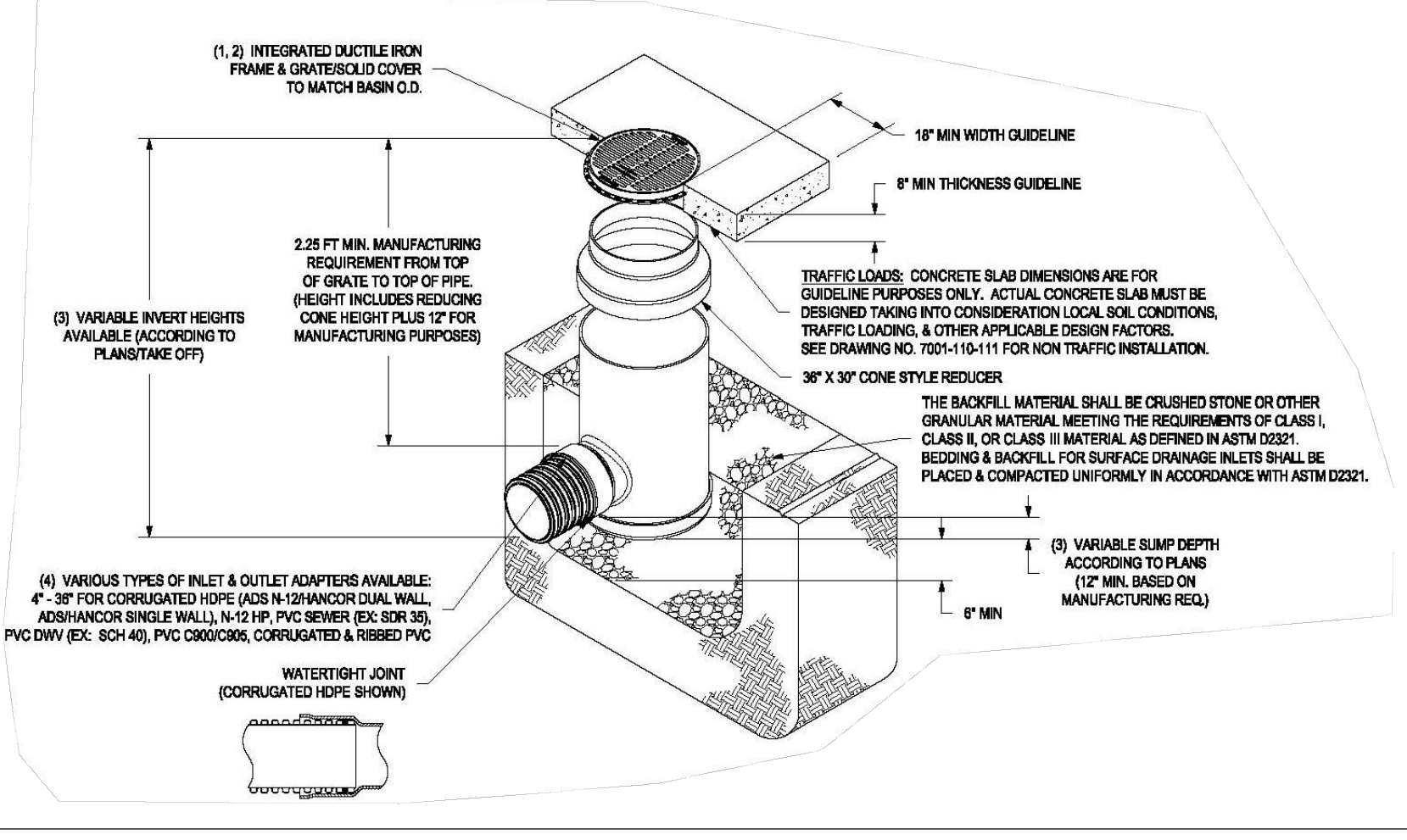


### 30" INLINE DRAIN



- NOTES**
- 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536
  - 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
  - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
  - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC

### TYP. 36" DRAIN BASIN



**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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**SEAL**

SOLOMON W. SHUKR  
 Lic. No. 44376  
 1/6/2022  
 PROFESSIONAL ENGINEER

**APPROVALS DATE**

Amy Pflaum 01/18/22  
 QUALITY CONTROL ENGINEER  
 Adam E. Sulawski 1/20/22  
 CONSTRUCTION MANAGEMENT SUPERVISOR  
 1.21.2022  
 WATER, SEWER, STREETS BUREAU CHIEF  
 Darnice M. Leach 01/27/22  
 TRANSPORTATION DIRECTOR  
 John M. 1/27/22  
 PROJECT MANAGER

**REVISIONS DATE**

**NORTHSIDE SALT STORAGE SITE**  
 SLT1  
 SE CORNER OF OLD DOMINION DR & 26TH ST N

**DETAILS - 2**

DESIGNED: SEB  
 DRAWN: SEB  
 CHECKED: SWS  
 PLOTTED: JANUARY 6 2022

**SCALE:**

AS SHOWN

LINETYPE LEGEND

Table with columns: FEATURE, EXISTING, PROPOSED. Lists various features like BUILDING, CENTERLINE / BASELINE, COMMUNICATIONS CABLE, etc., with their corresponding line styles.

SYMBOL LEGEND

Table with columns: EXISTING FEATURE, PROPOSED FEATURE. Lists features like EX CABLE PEDESTAL, EX ELECTRIC BOX, EX FIRE HYDRANT, etc., with their corresponding symbols.

SYMBOL LEGEND

Table with columns: EXISTING FEATURE, PROPOSED FEATURE. Lists features like EX STRIPING, EX BUS STOP with their corresponding symbols.

LABEL LEGEND

Table with columns: EXISTING, PROPOSED. Lists existing and proposed sanitary and storm sewer structure numbers with their corresponding labels.

HATCH LEGEND

Table with columns: EXISTING, PROPOSED. Lists hatching patterns for features like PROP MILL & OVERLAY, PROP FULL DEPTH ASPHALT, PROP CONCRETE, etc.



Table with columns: APPROVALS, DATE. Lists approvals from Amy Pflaum, Adam E. Sulawski, Darnis M. Leach, and John Mier with their respective dates.

Table with columns: REVISIONS, DATE. A table for tracking design revisions.

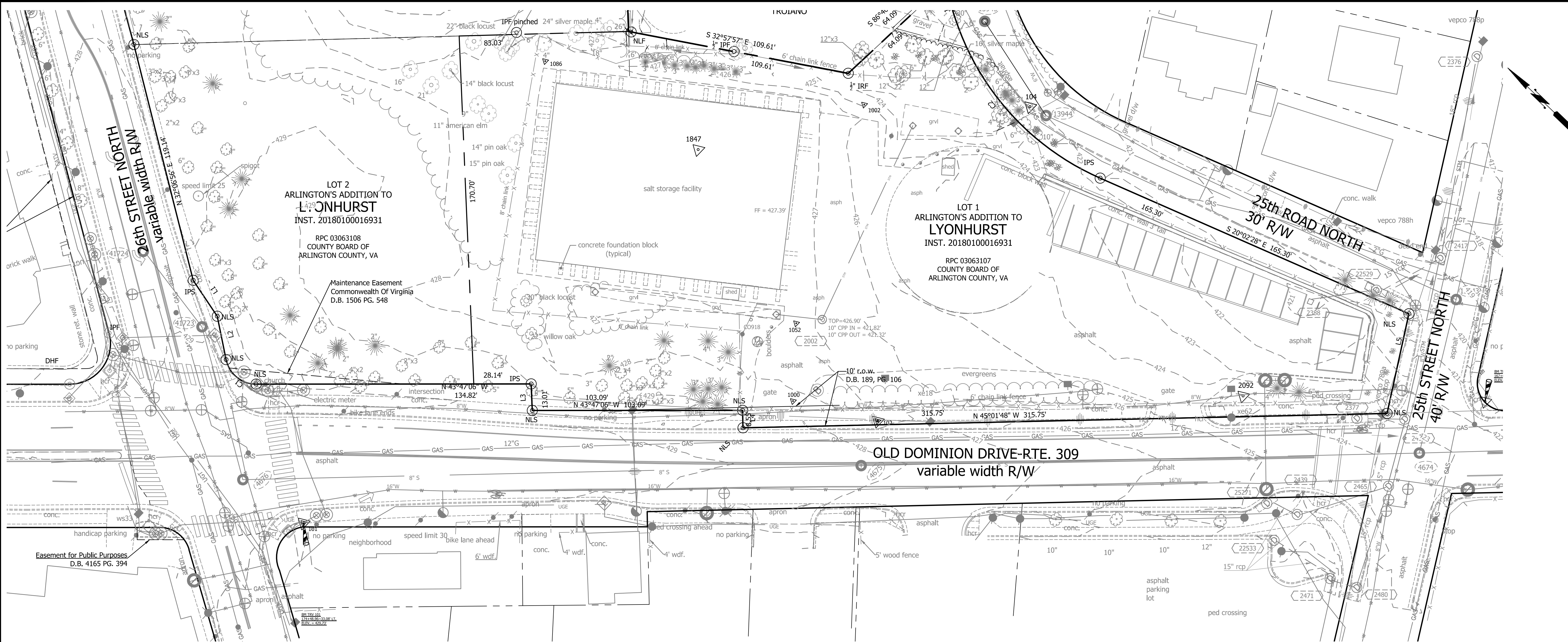
NORTHSIDE SALT STORAGE SITE SLT1 SE CORNER OF OLD DOMINION DR & 26TH ST N

LEGEND

DESIGNED: SEB DRAWN: SEB CHECKED: SWS PLOTTED: JANUARY 6 2022

SCALE:

N/A



**SURVEYOR'S CERTIFICATE**

I, NATHAN ORR, A DULY LICENSED LAND SURVEYOR IN THE COMMONWEALTH OF VIRGINIA, DO HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE BOUNDARY SURVEY DELINEATED HEREON IS IN ACCORDANCE WITH THE MINIMUM STANDARDS AND PROCEDURES ESTABLISHED BY THE VIRGINIA STATE BOARD OF ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS AND LANDSCAPE ARCHITECTS AND IS NOW IN THE NAME OF THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA AS ACQUIRED BY THE FOLLOWING:

- RPC 03063001: DEED BOOK 258 AT PAGE 148, DEED BOOK 258 AT PAGE 149, AND DEED BOOK 377 AT PAGE 231.
- RPC 03063002: DEED BOOK 2531 AT PAGE 535
- RPC 03063003: DEED BOOK 2531 AT PAGE 537
- RPC 03063004: DEED BOOK 2531 AT PAGE 540
- RPC 03063005: DEED BOOK 4119 AT PAGE 400
- RPC 03063006: DEED BOOK 2548 AT PAGE 1014
- RPC 03063008: DEED BOOK 1377 AT PAGE 228, DEED BOOK 1377 AT PAGE 238, AND DEED BOOK 1414 AT PAGE 355

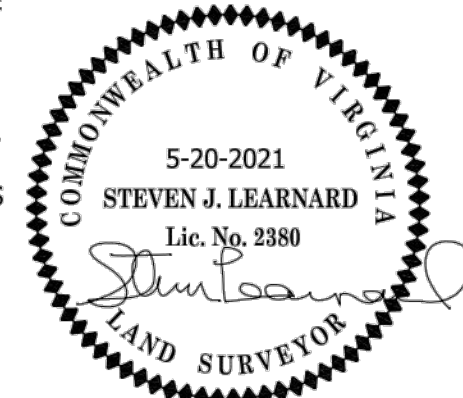
ALL OF WHICH ARE RECORDED AMONG THE LAND RECORDS OF ARLINGTON COUNTY, VIRGINIA.

I FURTHER CERTIFY THAT THIS TOPOGRAPHIC SURVEY SHOWN HEREON WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED FROM 02/16/2017 TO 05/05/2017; AND THAT THE PLAN, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

NATHAN A. ORR L.S. #3178 DATE 05/12/17



I HEREBY CERTIFY THAT THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF STEVEN J. LEARNARD, L.S. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED DURING 05/2021; AND THAT THIS PLAN, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.



**SANITARY SEWER TABULATION:**

- #41724  
TOP = 406.67  
18" RCP INV. IN (1949) = 393.41  
C/L INV. = 421.04
- #41723  
TOP = 429.94  
C/L INV. = 420.89
- #4676  
TOP = 429.54  
C/L INV. = 420.48
- #4675  
TOP = 428.32  
C/L INV. = 417.32
- #4674  
TOP = 423.45  
NOT ACCESSIBLE  
INVERT OUT PER RECORD = 412.53
- #4672  
TOP = 414.18  
C/L INV. = 402.55
- #13943  
TOP = 419.45  
C/L INV. = 413.05
- #13728  
TOP = 416.42  
C/L INV. = 413.46
- #13944  
TOP = 421.99  
C/L INV. = 415.39
- #13945  
TOP = 420.45  
C/L INV. = 415.92

**STORM SEWER TABULATION**

- #1960  
TOP = 406.84  
18" RCP INV. IN (1949) = 393.41
- #1949  
TOP = 408.34  
18" RCP INV. IN (1957) = NOT ACCESSIBLE  
18" RCP INV. OUT (1960) = NOT ACCESSIBLE
- #1957  
TOP = 408.76  
18" RCP INV. OUT (1949) = 405.91
- #2022  
TOP = 410.76  
15" RCP INV. IN (2053) = 405.09
- #2053  
TOP = 418.88  
15" RCP INV. OUT (2022) = 414.11  
15" RCP INV. IN (2078) = 414.61
- #2078  
TOP = 424.02  
15" RCP INV. OUT (2053) = 420.34
- #2376  
TOP = 416.11  
18" RCP INV. IN (2417) = 411.36
- #2417  
YARD INLET  
MANHOLE RIM = 418.41  
15" RCP INV. IN (22529) = 416.01  
18" RCP INV. OUT (2376) = 412.16  
INLET THROAT = ?
- #22529  
TOP = 419.48  
RCP INV. (2388) NOT ACCESSIBLE  
15" RCP INV. OUT (2417) = 416.45
- #2388  
TOP GRATE = 420.69  
DEBRIS FILLED, NOT ACCESSIBLE
- #2377  
TOP = 423.79  
15" RCP INV. OUT (2456) NOT ACCESSIBLE
- #2456  
TOP = 422.83  
15" RCP INV. IN (2377) = 420.60  
15" RCP INV. OUT (2417) = 420.54  
15" RCP INV. IN (2465) = 420.44
- #2465  
TOP = 423.74  
15" RCP INV. OUT (2456) = 420.46  
INV. IN (2480) NOT ACCESSIBLE  
15" RCP INV. IN (2439) = 420.96
- #2480  
TOP = 424.38  
15" RCP INV. IN (2471) = 421.53  
15" RCP INV. OUT (2465) = 421.48
- #25271  
TOP = 425.20  
15" RCP INV. OUT (2439) = 422.70
- #2439  
TOP = 425.28  
15" RCP INV. IN (25271) = 422.28  
15" RCP INV. OUT (2465) = 421.95
- CULVERT  
12" RCP INV. IN = 391.29  
12" RCP INV. OUT = 390.36
- SMP 1  
TOP = 402.66  
CL/INV. = 395.68  
15" RCP INV. OUT (SMP 2) = 396.21  
SEE SMP1 DETAIL FOR WEIR ELEVATIONS
- SMP 2  
TOP OF END WALL = 398.50  
INV. 15" RCP (SMP 1) = 396.22
- SMP 3  
TOP OF GRATE = 397.23  
3-3/4" ORIFICE EXTERIOR OF STRUCTURE = 394.46  
3-3/4" ORIFICE INTERIOR OF STRUCTURE = 394.60  
15" INV. OUT = 394.19'
- #100  
7015045.01  
11873820.61  
427.12  
TRV 100
- #101  
7014794.95  
11873604.67  
429.73  
TRV 101
- #102  
7014626.21  
11873835.35  
428.13  
TRV 102
- #103  
7014417.82  
11874048.19  
421.80  
TRV 103
- #104  
7014678.79  
11873998.27  
422.06  
TRV 104
- #105  
7014887.14  
11874091.65  
403.99  
TRV 105
- #106  
7015084.15  
11874221.51  
391.25  
TRV 106
- #107  
7015380.76  
11874342.75  
385.00  
TRV 107
- #108  
7015406.21  
11874188.91  
400.95  
TRV 108
- #109  
7015335.25  
11873966.66  
417.21  
TRV 109
- #1847  
7014781.75  
11873870.64  
426.40  
FLY 1847
- #2092  
7014505.28  
11873968.11  
425.08  
FLY 2092

**CONTROL TABLE:**

Point No.	Northing(Y)	Easting(X)	Elev(Z)	Description
101	7014794.9500	11873604.6660	429.73	TRV 101
102	7014626.2080	11873835.3460	428.13	TRV 102
1000	7014662.9233	11873813.7663	428.46	TFLY
1002	7014738.1634	11873942.8377	424.98	TFLY
1052	7014688.1514	11873842.3807	427.21	TFLY
1086	7014865.8504	11873850.1155	427.36	TFLY

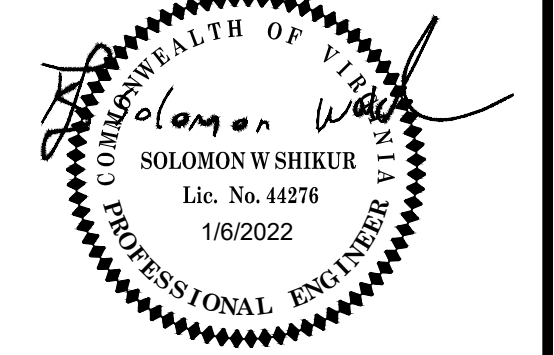
**CONTROL DATA:**

Point No.	Northing(Y)	Easting(X)	Elev(Z)	Description
101	7014794.9500	11873604.6660	429.73	TRV 101
102	7014626.2080	11873835.3460	428.13	TRV 102
1000	7014662.9233	11873813.7663	428.46	TFLY
1002	7014738.1634	11873942.8377	424.98	TFLY
1052	7014688.1514	11873842.3807	427.21	TFLY
1086	7014865.8504	11873850.1155	427.36	TFLY

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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**SEAL**



**APPROVALS**

APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	01/18/22
Adam E. Sulawski CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	1.21.2022
Dennis M. Leach TRANSPORTATION DIRECTOR	01/27/22
John M. [Signature] PROJECT MANAGER	1/27/22

**REVISIONS**

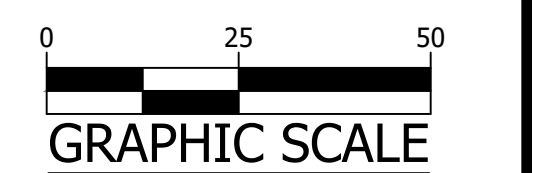
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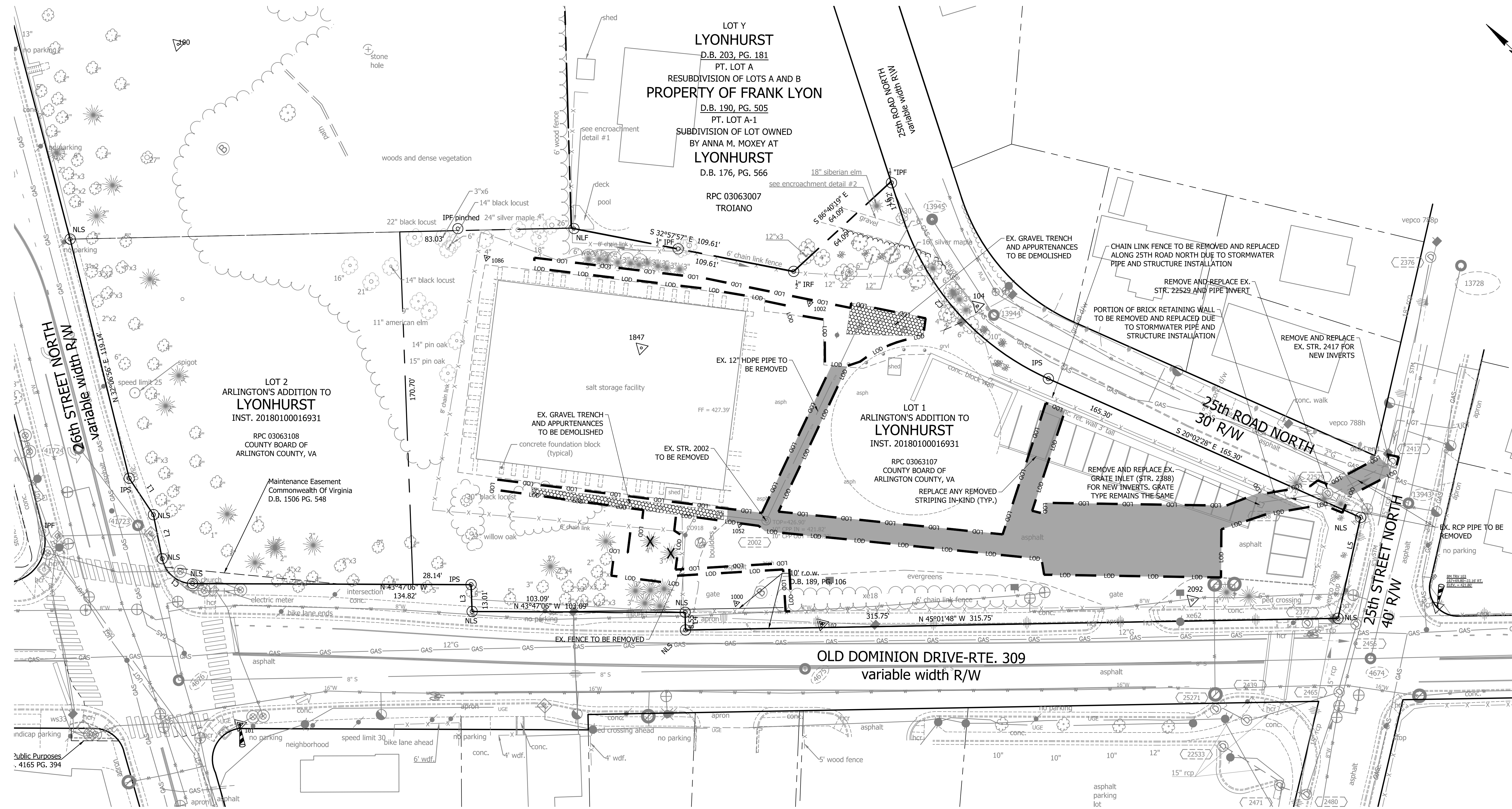
NORTHSIDE SALT STORAGE SITE  
SLT1  
SE CORNER OF OLD DOMINION DR & 26TH ST N  
EXISTING CONDITIONS PLAN

DESIGNED: SEB  
DRAWN: SEB  
CHECKED: SWS

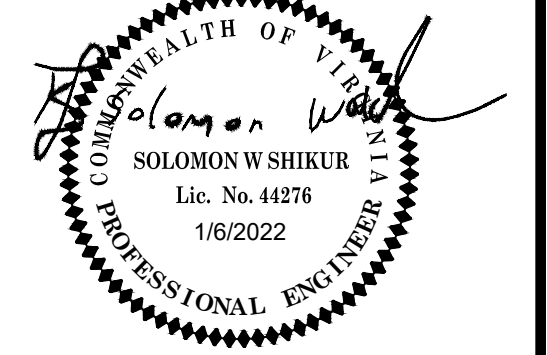
PLOTTED: JANUARY 6 2022

**SCALE:**





SEAL



APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	01/18/22
Adam E. Sulawski CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	1/21/2022
Dennis M. Leach TRANSPORTATION DIRECTOR	01/27/22
John M. [Signature] PROJECT MANAGER	1/27/22

REVISIONS

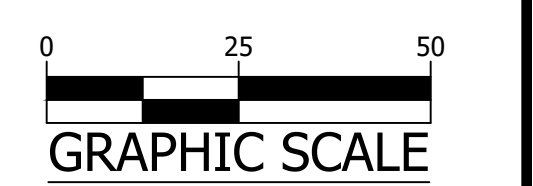
REVISIONS	DATE

**NORTHSIDE SALT STORAGE SITE**  
SLT1  
SE CORNER OF OLD DOMINION DR & 26TH ST N  
**DEMOLITION PLAN**

DESIGNED: SEB  
DRAWN: SEB  
CHECKED: SWS

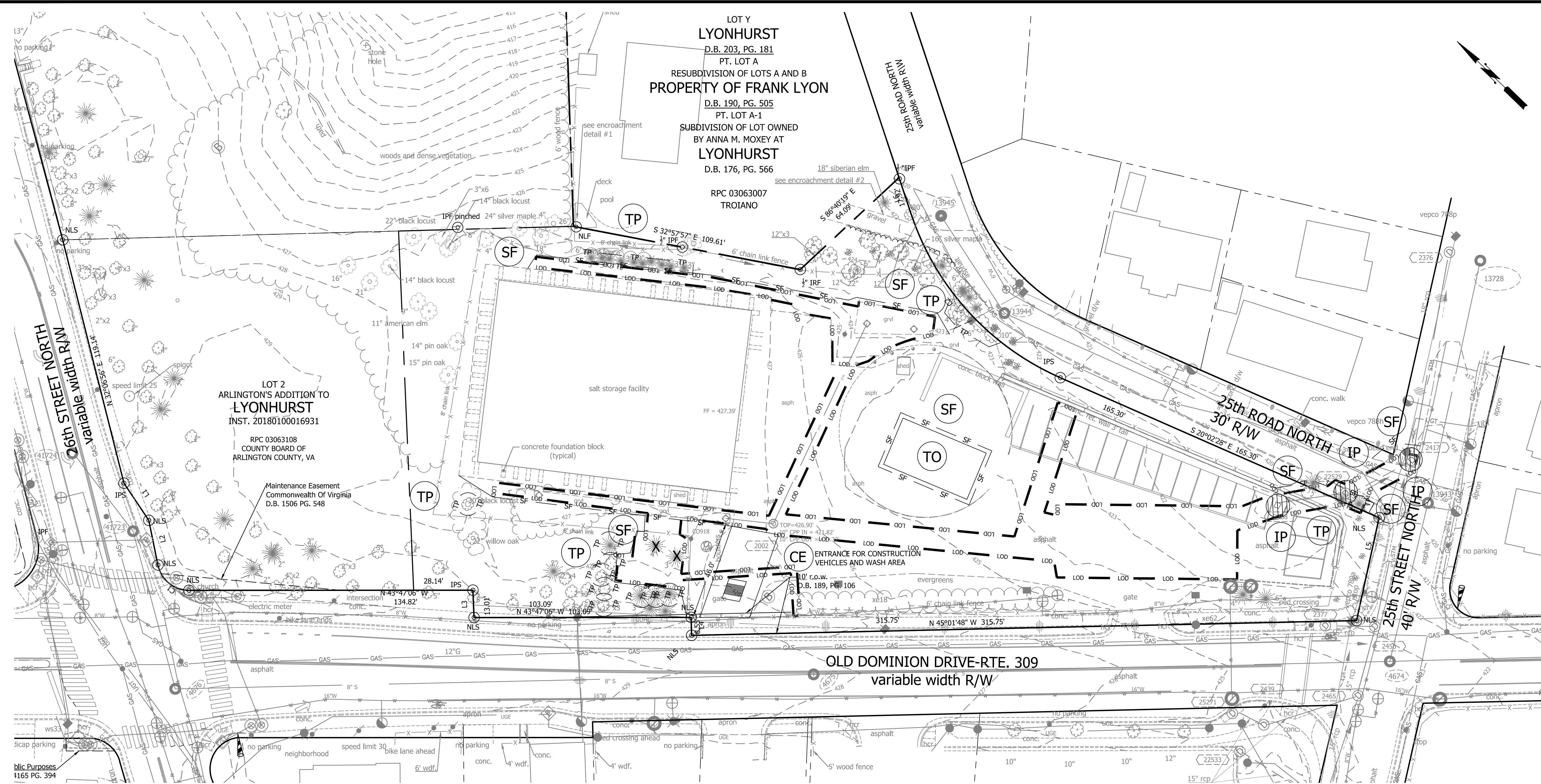
PLOTTED: JANUARY 6 2022

SCALE:



REVISED ON 01/07/2021

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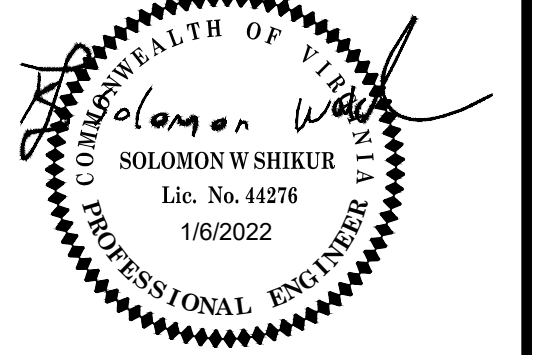


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 FACILITIES & ENGINEERING DIVISION  
 ENGINEERING BUREAU  
 2100 CLARENDON BOULEVARD, SUITE 813  
 ARLINGTON, VA 22201  
 PHONE: 703.228.3629  
 FAX: 703.228.3606

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APPROVALS DATE

Amy Pflaum 01/18/22  
 QUALITY CONTROL ENGINEER  
 Adam E. Sulawski 1/20/22  
 CONSTRUCTION MANAGEMENT SUPERVISOR  
 [Signature] 1/21/2022  
 WATER, SEWER, STREETS BUREAU CHIEF  
 Danna M. Leach 01/27/22  
 TRANSPORTATION DIRECTOR  
 John M. [Signature] 1/27/22  
 PROJECT MANAGER

REVISIONS DATE

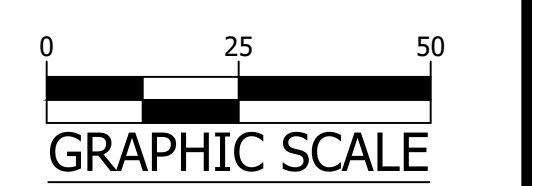
REVISIONS	DATE

NORTHSIDE SALT STORAGE SITE  
 SLT1  
 SE CORNER OF OLD DOMINION DR & 26TH ST N  
**EROSION AND SEDIMENT CONTROL PLAN**  
**PHASE 1**

DESIGNED: SEB  
 DRAWN: SEB  
 CHECKED: SWS

PLOTTED: JANUARY 6 2022

SCALE:



GRAPHIC SCALE

C031.1

NORTHSIDE SALT STORAGE SITE SLT1

EROSION AND SEDIMENT CONTROL LEGEND

3.02	TEMPORARY CONSTRUCTION ENTRANCE	CE	
3.05	TEMPORARY SILT FENCE	SF	
3.07	STORM DRAIN INLET PROTECTION	IP	
3.38	TREE PROTECTION	TP	
3.30	TOPSOILING - STOCKPILE	TO	
	LIMITS OF DISTURBANCE	LOD	

PROTECT TREE PRIOR TO AND DURING CONSTRUCTION. CONTACT ARLINGTON COUNTY FORESTER PRIOR TO INSTALLATION OF TREE PROTECTION, OR BEGINNING ANY WORK ADJACENT TO TREE. ROOT PRUNING AND HAND DIGGING AS REQUIRED BY COUNTY FORESTER OR AS SHOWN ON PLAN.

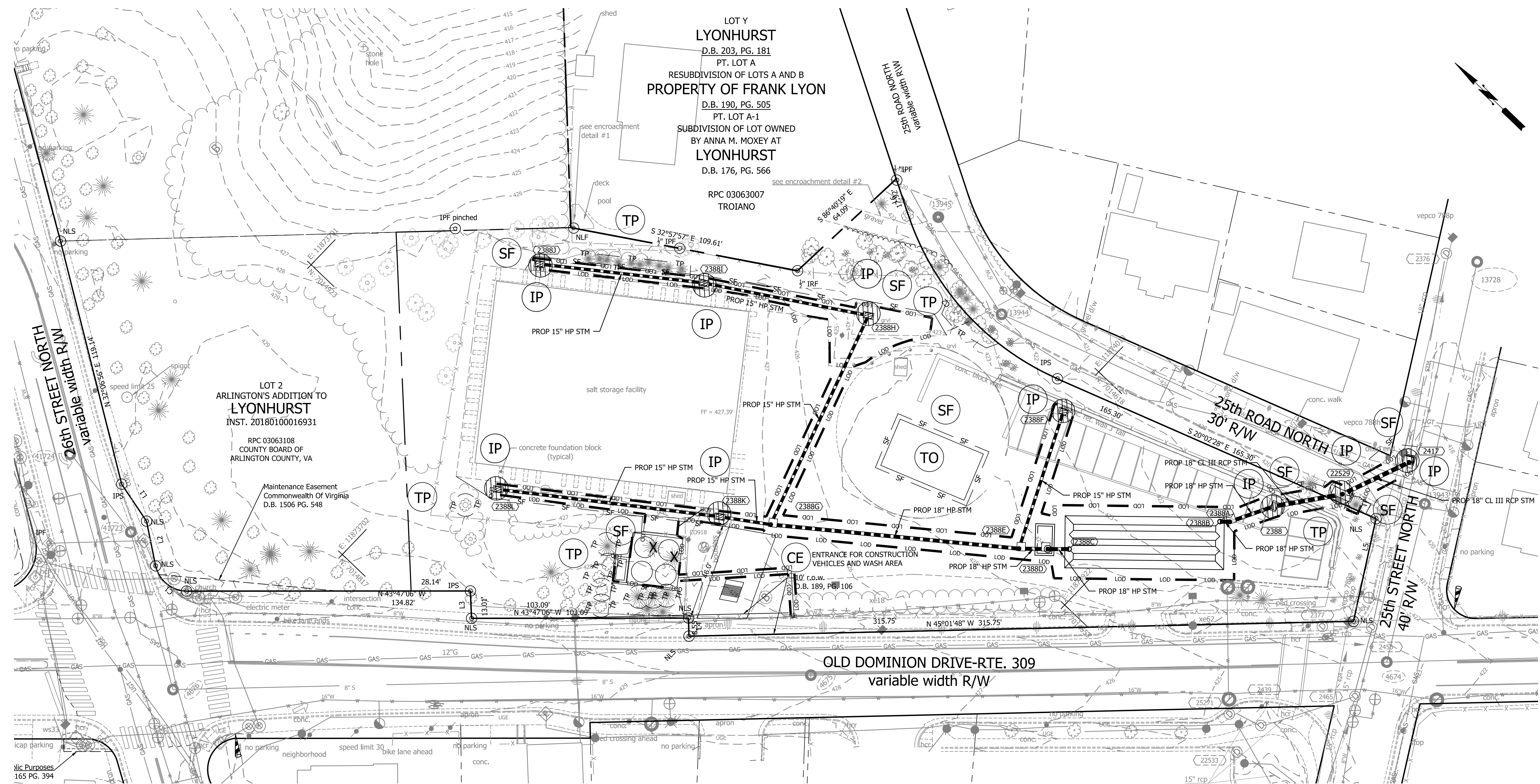
EXISTING TREE TO BE REMOVED BY OTHERS X

SEE SHEET C031.3 FOR DETAILED TREE PROTECTION AND REMOVAL PLAN.



REVISED ON 01/07/2022

FILENAME: SLT1-224-E\_AND\_S\_PLANDWG.PATH: Q:\DATA\SLT1\DESIGN\CAD\ACTIVE PLOTTED BY: BRUCKLEY



**EROSION AND SEDIMENT CONTROL LEGEND**

3.02	TEMPORARY CONSTRUCTION ENTRANCE	CE	
3.05	TEMPORARY SILT FENCE	SF	
3.07	STORM DRAIN INLET PROTECTION	IP	
3.38	TREE PROTECTION	TP	
3.30	TOPSOILING - STOCKPILE	TO	
	LIMITS OF DISTURBANCE	LOD	

PROTECT TREE PRIOR TO AND DURING CONSTRUCTION. CONTACT ARLINGTON COUNTY FORESTER PRIOR TO INSTALLATION OF TREE PROTECTION, OR BEGINNING ANY WORK ADJACENT TO TREE. ROOT PRUNING AND HAND DIGGING AS REQUIRED BY COUNTY FORESTER OR AS SHOWN ON PLAN.

EXISTING TREE TO BE REMOVED BY OTHERS X

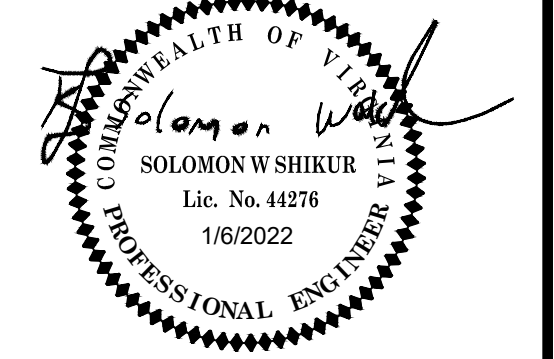
SEE SHEET C031.3 FOR DETAILED TREE PROTECTION AND REMOVAL PLAN.

**ARLINGTON VIRGINIA**

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2100 CLARENDON BOULEVARD, SUITE 813  
ARLINGTON, VA 22201  
PHONE: 703.228.3629  
FAX: 703.228.3606

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APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	01/18/22
Adam E. Sulawski CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	1/21/2022
Danniss M. Leach TRANSPORTATION DIRECTOR	01/27/22
John Mier PROJECT MANAGER	1/27/22

REVISIONS DATE

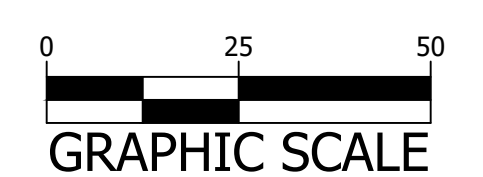
REVISIONS	DATE

NORTHSIDE SALT STORAGE SITE  
SLT1  
SE CORNER OF OLD DOMINION DR & 26TH ST N  
**EROSION AND SEDIMENT CONTROL PLAN**  
PHASE 2

DESIGNED: SEB  
DRAWN: SEB  
CHECKED: SWS

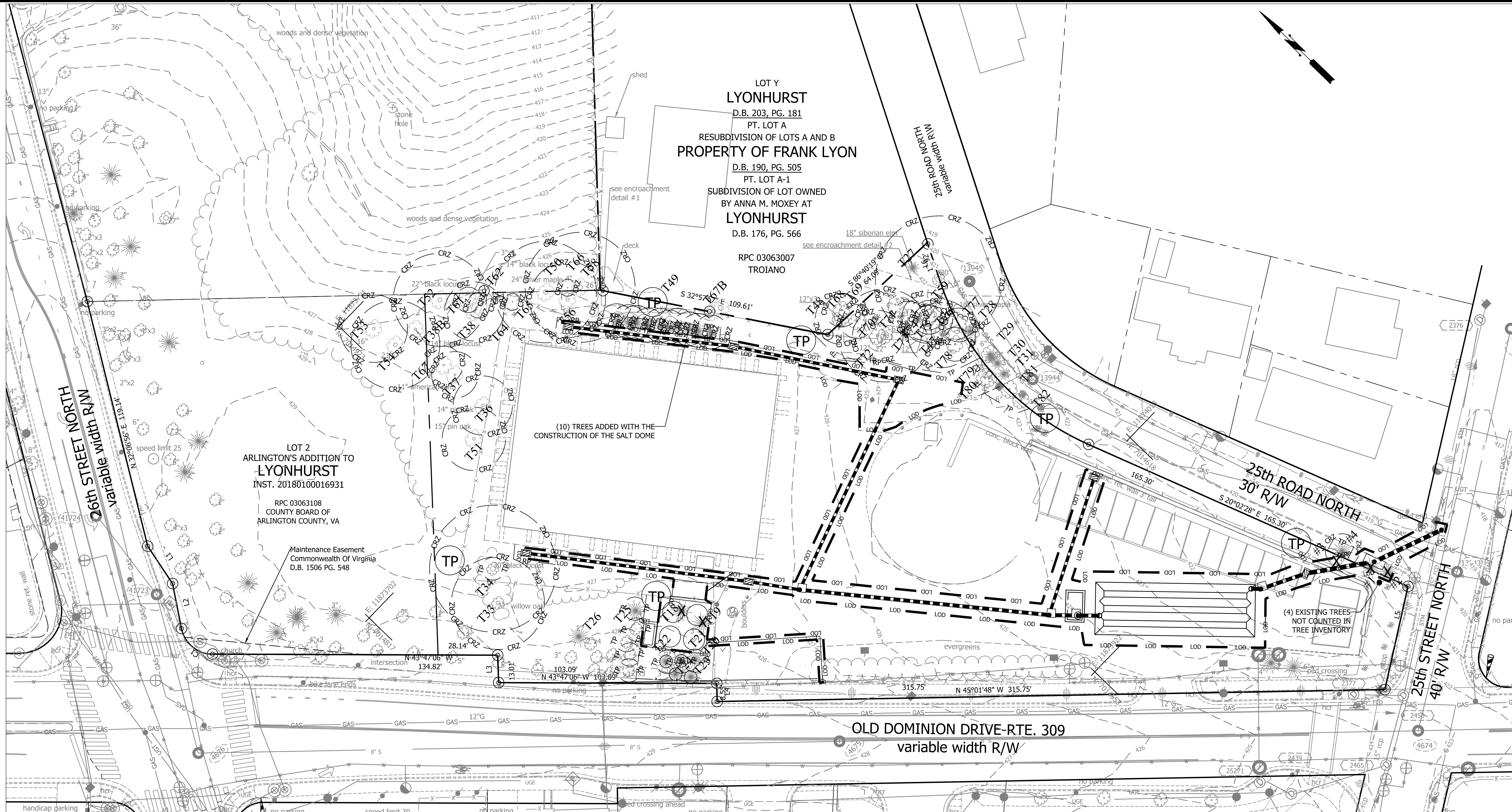
PLOTTED: JANUARY 6 2022

SCALE:

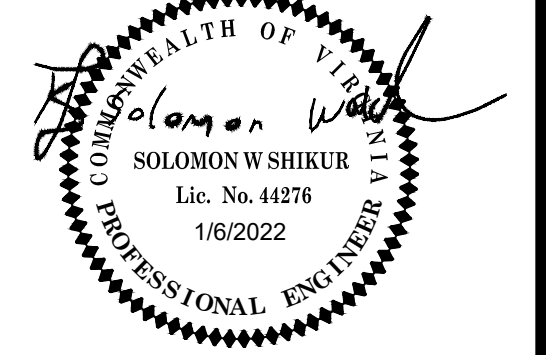


GRAPHIC SCALE

C031.2



SEAL



APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	01/18/22
Adam E. Sulawski CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	1.21.2022
Danniss M. Leach TRANSPORTATION DIRECTOR	01/27/22
John Mier PROJECT MANAGER	1/27/22

REVISIONS DATE

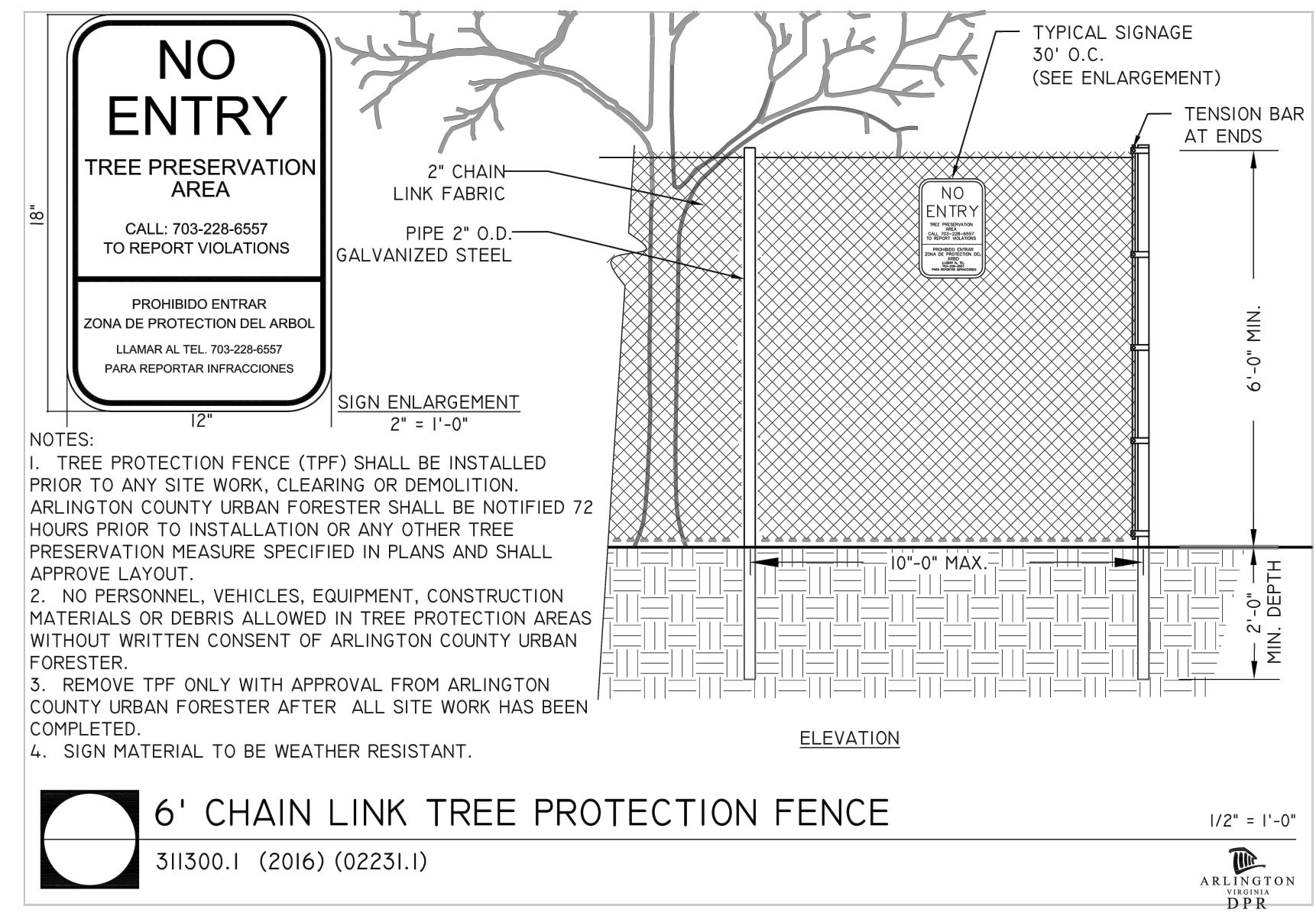
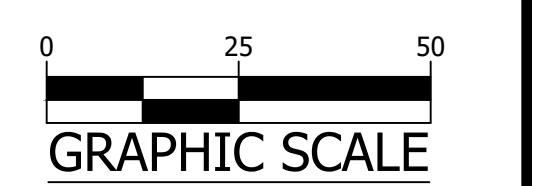
REVISIONS	DATE

NORTHSIDE SALT STORAGE SITE  
 SLT1  
 SE CORNER OF OLD DOMINION DR & 26TH ST N  
 TREE PROTECTION AND REMOVAL PLAN

DESIGNED: SEB  
 DRAWN: SEB  
 CHECKED: SWS

PLOTTED: JANUARY 6 2022

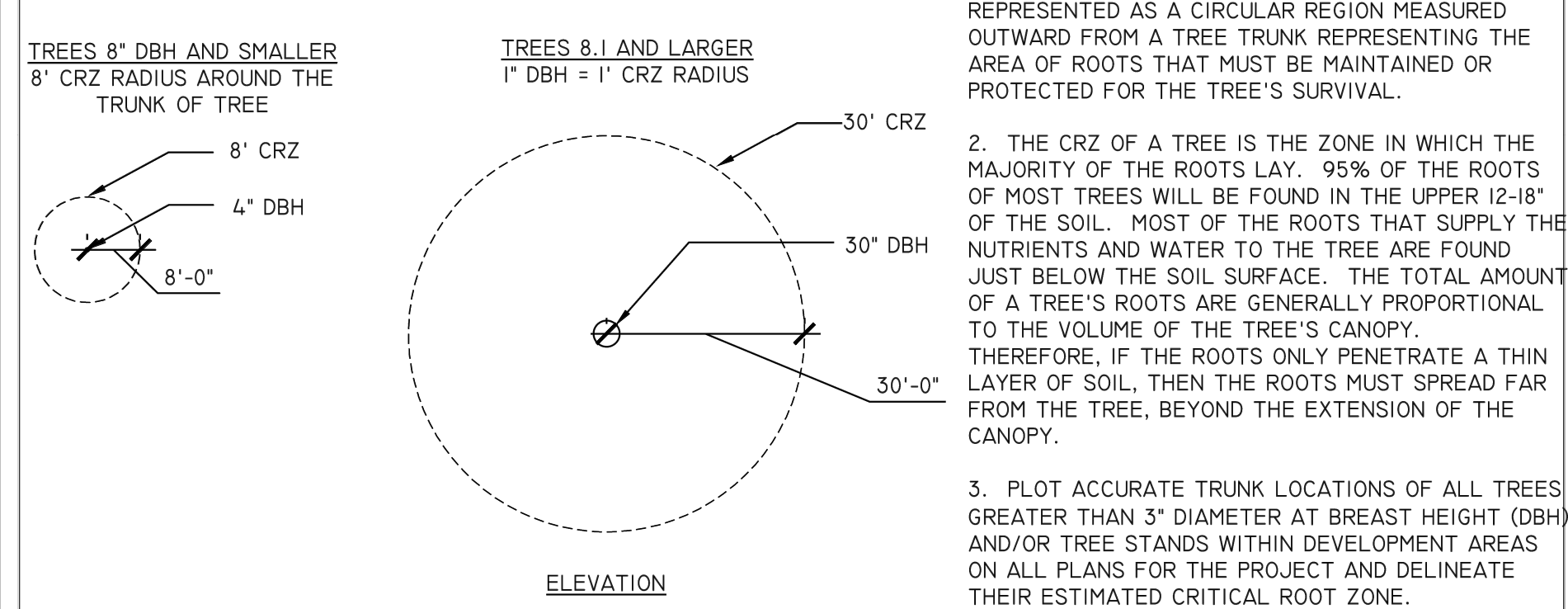
SCALE:



- NOTES:
- TREE PROTECTION FENCE (TPF) SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION. ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO INSTALLATION OR ANY OTHER TREE PRESERVATION MEASURE SPECIFIED IN PLANS AND SHALL APPROVE LAYOUT.
  - NO PERSONNEL, VEHICLES, EQUIPMENT, CONSTRUCTION MATERIALS OR DEBRIS ALLOWED IN TREE PROTECTION AREAS WITHOUT WRITTEN CONSENT OF ARLINGTON COUNTY URBAN FORESTER.
  - REMOVE TPF ONLY WITH APPROVAL FROM ARLINGTON COUNTY URBAN FORESTER AFTER ALL SITE WORK HAS BEEN COMPLETED.
  - SIGN MATERIAL TO BE WEATHER RESISTANT.

**6' CHAIN LINK TREE PROTECTION FENCE**  
 311300.1 (2016) (02231.1)

1/2" = 1'-0"  
 ARLINGTON DPR



NOTES:

- GRAPHICALLY, THE CRITICAL ROOT ZONE (CRZ) IS REPRESENTED AS A CIRCULAR REGION MEASURED OUTWARD FROM A TREE TRUNK REPRESENTING THE AREA OF ROOTS THAT MUST BE MAINTAINED OR PROTECTED FOR THE TREE'S SURVIVAL.
- THE CRZ OF A TREE IS THE ZONE IN WHICH THE MAJORITY OF THE ROOTS LAY. 95% OF THE ROOTS OF MOST TREES WILL BE FOUND IN THE UPPER 12-18" OF THE SOIL. MOST OF THE ROOTS THAT SUPPLY THE NUTRIENTS AND WATER TO THE TREE ARE FOUND JUST BELOW THE SOIL SURFACE. THE TOTAL AMOUNT OF A TREE'S ROOTS ARE GENERALLY PROPORTIONAL TO THE VOLUME OF THE TREE'S CANOPY. THEREFORE, IF THE ROOTS ONLY PENETRATE A THIN LAYER OF SOIL, THEN THE ROOTS MUST SPREAD FAR FROM THE TREE, BEYOND THE EXTENSION OF THE CANOPY.
- PLOT ACCURATE TRUNK LOCATIONS OF ALL TREES GREATER THAN 3" DIAMETER AT BREAST HEIGHT (DBH) AND/OR TREE STANDS WITHIN DEVELOPMENT AREAS ON ALL PLANS FOR THE PROJECT AND DELINEATE THEIR ESTIMATED CRITICAL ROOT ZONE.
- PLOT ACCURATE TRUNK LOCATIONS OF OFFSITE TREES WHICH WILL HAVE THEIR CRZ AFFECTED BY DEVELOPMENT AND DELINEATE THEIR ESTIMATED CRITICAL ROOT ZONE.

**TREE PROTECTION DETAIL FOR DETERMINING CRITICAL ROOT ZONE**  
 311300.3 (2019)  
 N.T.S.  
 ARLINGTON DPR

LEGEND:

CRITICAL ROOT ZONE	CRZ
TREE PROTECTION	TP
ROOT PRUNING	RP
TREE TO BE REMOVED	X
TREE #	T##

TREE REPLACEMENT SCHEDULE

TREE #	SPECIES	SIZE DBH (IN)	CONDITION (%)	SPECIES RATING	TOTAL SCORE	REPLACEMENT
T18	Acer negundo	4"	80	50		1
T19	Acer negundo	3"	80	50		1
#1	Cupressocyparis leylandii	5"	100			1
#2	Cupressocyparis leylandii	7"	100			1
#3	Ulmus pumila	5.5"	50			1

TREES UNDER 10" REPLACED AT 1:1, SCORING UNNECESSARY

TREE INVENTORY WORKSHEET (Rev. 12/2021)

TREE INVENTORY DATE: 9/13/2018 (PRIOR TO CONSTRUCTION OF PROJECT FMP1)

Table with columns: TREE#, DBH, SPECIES, CONDITION, SPECIES RATING, REPLACEMENT VALUE, REPLACEMENT, POSSIBLE FUTURE REPLACEMENT, PROPOERTY OWNERSHIP, CUT, PRUNE, PRESERVE, NOTE. Includes tree IDs T18 through T82 and #1 through #4.

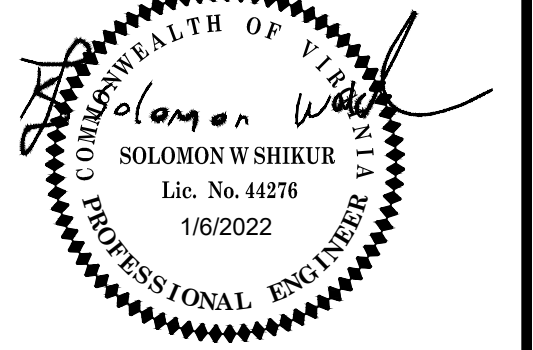
TREE SUMMARY TABLE
TOTAL EXISTING TREES (AS OF 9/13/18): 91
TREES REMOVED FROM PROJECT FMP1: 39
TREES ADDED AFTER PROJECT FMP1: 10
EXISTING TREES (CURRENT): 66
TREES TO BE REMOVED: 5
TOTAL TREE REPLACEMENT: 5\*

\*SEE SHEET C031.5 - TREE PLANTING PLAN FOR TREE REPLACEMENT SCHEDULE

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ARLINGTON, VA 22201
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SEAL



APPROVALS DATE

Amy Pflaum 01/18/22
QUALITY CONTROL ENGINEER
Adam E. Kilbury 1/20/22
CONSTRUCTION MANAGEMENT SUPERVISOR
Dennis M. Leach 01/27/22
TRANSPORTATION DIRECTOR
John M. ... 1/27/22
PROJECT MANAGER

REVISIONS DATE

Table for revisions with columns for description and date.

NORTHSIDE SALT STORAGE SITE
SLT1
SE CORNER OF OLD DOMINION DR & 26TH ST N
TREE INVENTORY

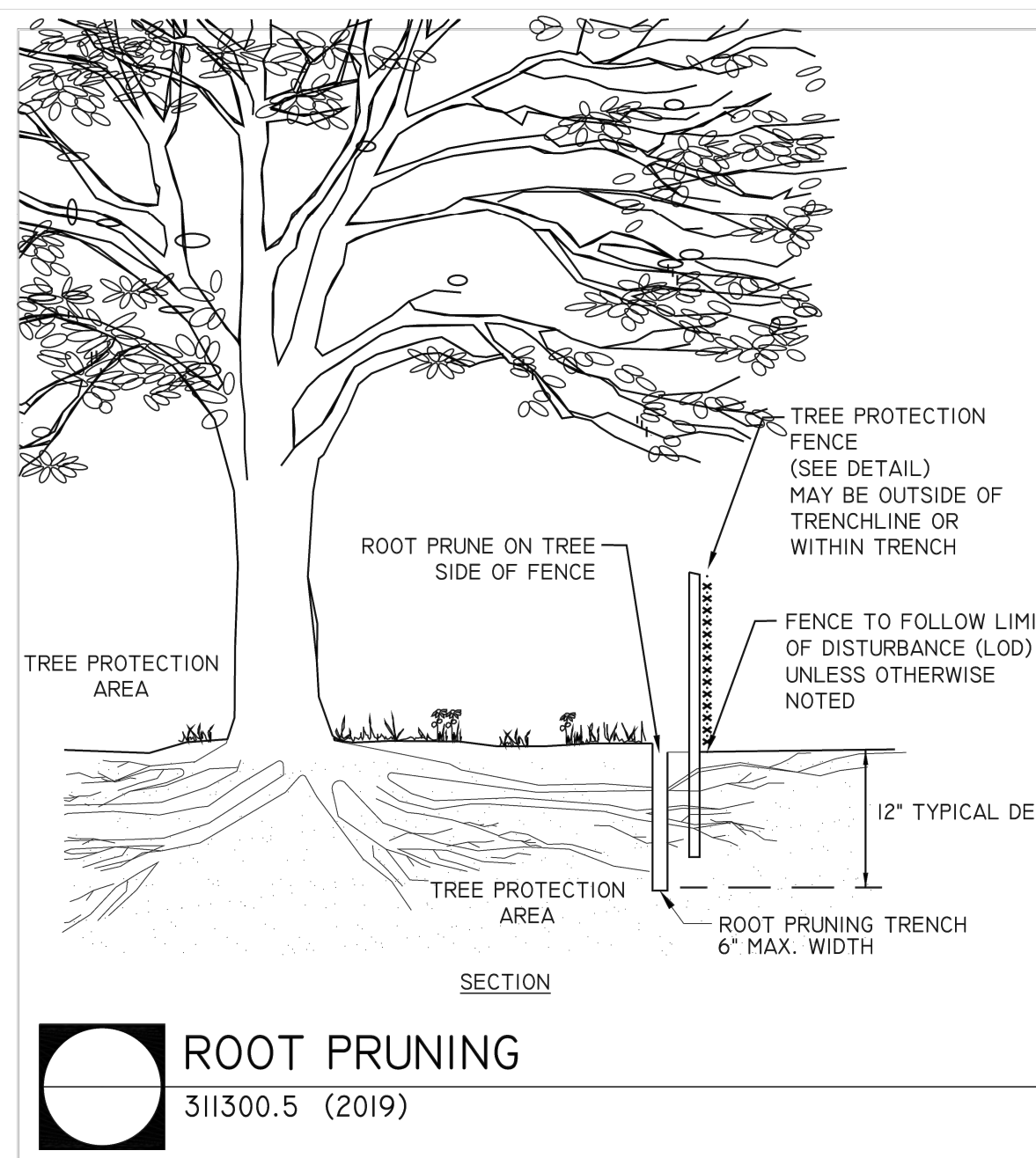
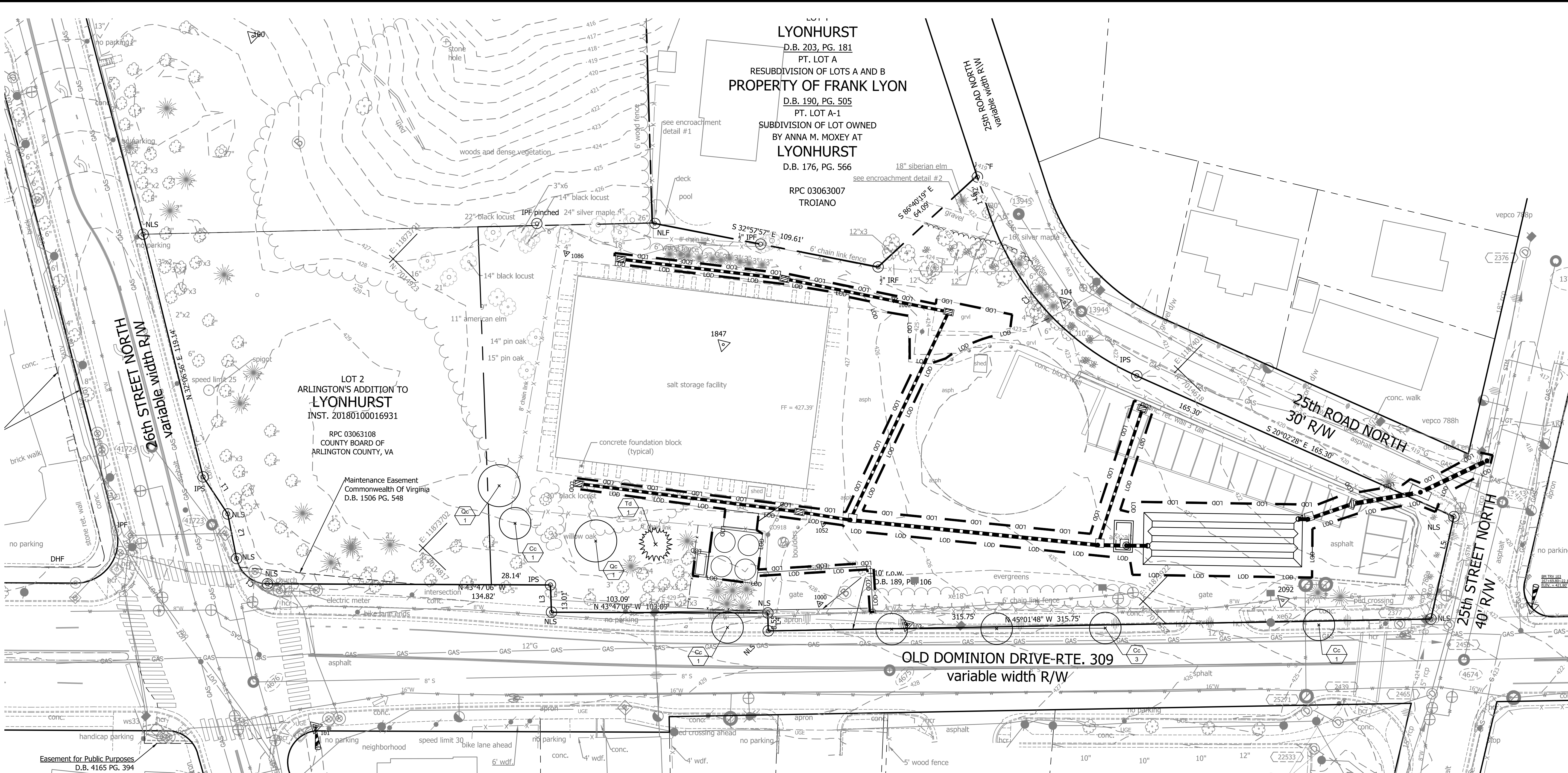
DESIGNED: SEB
DRAWN: SEB
CHECKED: SWS
PLOTTED: JANUARY 6 2022

SCALE:

N/A

REVISED ON 01/07/2022

FILENAME: SLT1-225-TREE\_PROTECTION\_INVENTORY.DWG PATH: Q:\DATA\SLT1\DESIGN\CAD\ACTIVE PLOTTED BY: SBUCKLEY



- NOTES**
1. ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY FLOW TO A DEPTH OF 12". ROOTS OVER 1.5" IN DIAMETER SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON THE SURFACE OF THE ROOT, WHICH IS STILL ATTACHED TO THE TREE. DO NOT BREAK OR CHOP. DO NOT PAINT THE CUT ROOT END. IF EXCAVATION IS FOR INSTALLATION OF UNDERGROUND UTILITIES, LEAVE THE ROOT INTACT AND THREAD THE LINES UNDERNEATH.
  2. ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING AND SHALL BE APPROVED BY ARLINGTON COUNTY URBAN FORESTER.
  3. ROOT PRUNING SHALL BE CONDUCTED WITH THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.
  4. BACKFILL THE ROOT-PRUNING TRENCH WITH APPROVED LOOSE TOPSOIL MIX AND TOP WITH 3-4" BARK MULCH AND MARK LOCATION FOR FUTURE REFERENCE. SILT FENCE MAY BE INSTALLED IN TRENCH PRIOR TO BACKFILLING AS LONG AS THE TRENCH IS NOT OPEN FOR LONGER THAN 48 HOURS WITHOUT WATERING.
  5. ROOT PRUNING WORK SHALL NOT BE DONE WHEN MORE THAN THE TOP 1 INCH OF SOIL IS FROZEN. ROOT PRUNING SHALL NOT BE UNDERTAKEN WHEN THE SOIL IS WET AND CONDITIONS ARE MUDDY.
  6. THE ARLINGTON COUNTY URBAN FORESTER SHALL BE NOTIFIED 72 HOURS PRIOR TO TRENCHING AND WHEN ALL ROOT PRUNING AND TREE PROTECTION FENCE INSTALLATION IS COMPLETE.

**ROOT PRUNING**  
311300.5 (2019)

N.T.S.  
ARLINGTON  
DPR

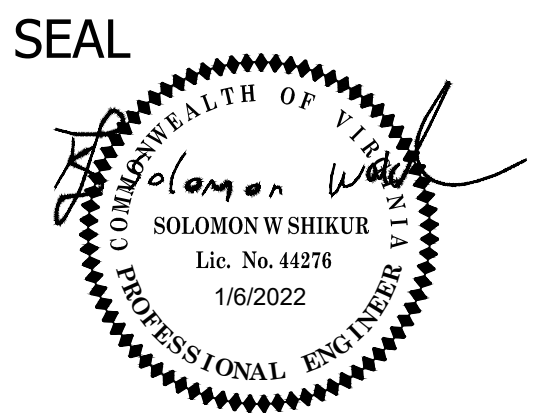
PLANT SCHEDULE						
QTY	LABEL	SPECIES	NAME	SIZE	CONT	NOTES
2	Qc	Quercus coccinea	Scarlet Oak	2"	B&B	
1	Td	Taxodium distichum	Bald Cypress	2"	B&B	
6	Cc	Cercis canadensis	Redbud	7-8"	B&B	SINGLE STEM

NOTE: CALL THE URBAN FORESTER AT 703-228-6557, 72 HOURS BEFORE PLANTING, TO SCHEDULE INSPECTION OF THE TREES TO BE PLANTED. BEFORE 1 YEAR AFTER PLANTING, ENSURE WARRANTED TREES ARE CHECKED FOR SURVIVAL, AND REPLACED IF NEEDED. THE URBAN FORESTER WILL COORDINATE WITH DPR STAFF ON SCHEDULING INSPECTIONS 2 YEARS AFTER PLANTING TO ASSUME RESPONSIBILITY.

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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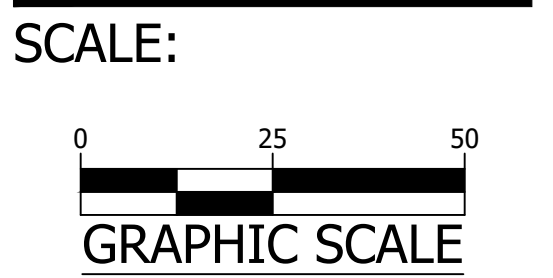
APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	01/18/22
<i>Adam E. Sulawski</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
<i>John M. Leach</i> WATER, SEWER, STREETS BUREAU CHIEF	1/21/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	01/27/22
<i>John M. Leach</i> PROJECT MANAGER	1/27/22

REVISIONS	DATE

NORTHSIDE SALT STORAGE SITE  
SLT1  
SE CORNER OF OLD DOMINION DR & 26TH ST N  
TREE PLANTING PLAN

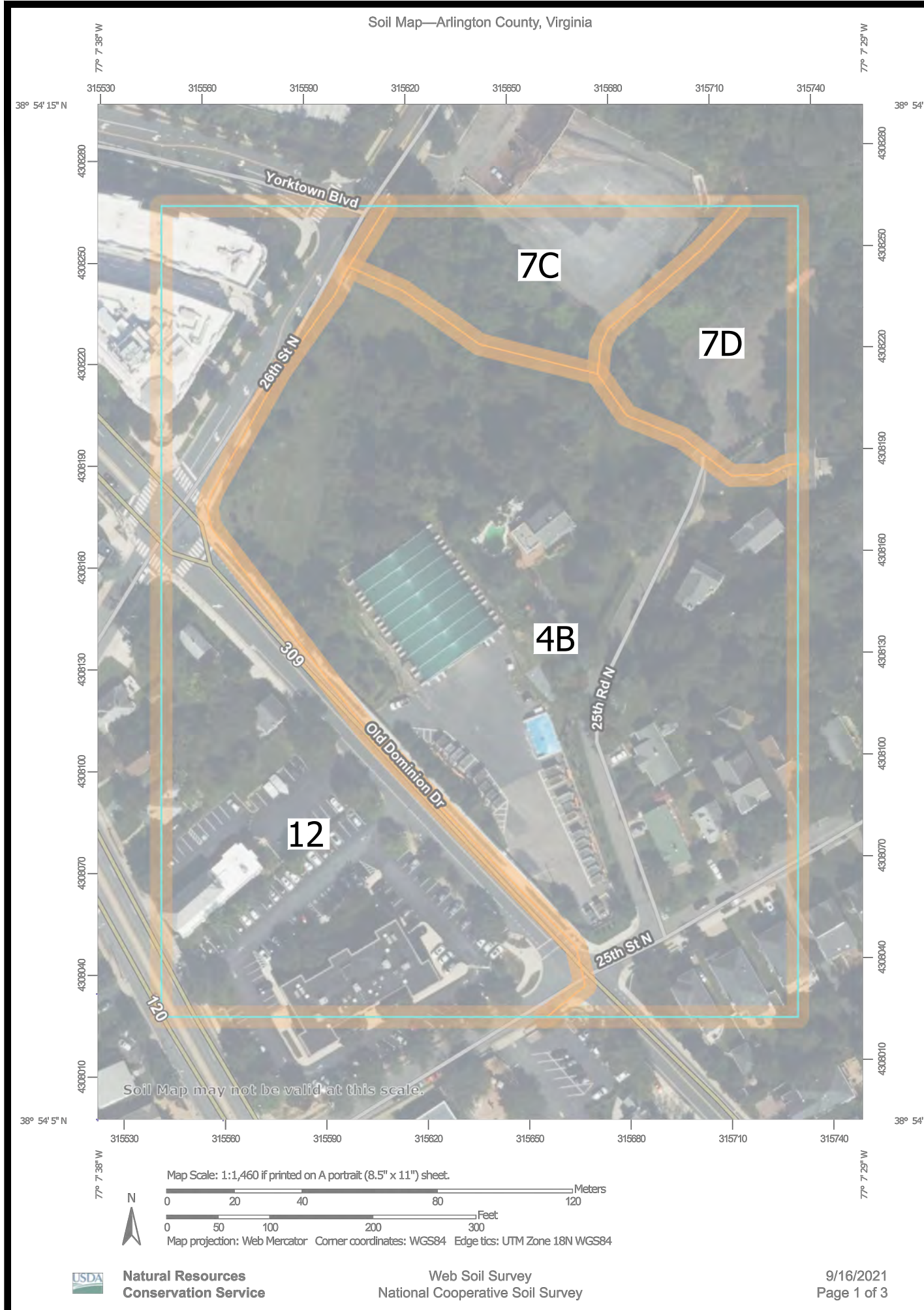
DESIGNED: SEB  
DRAWN: SEB  
CHECKED: SWS

PLOTTED: JANUARY 6 2022



C031.5

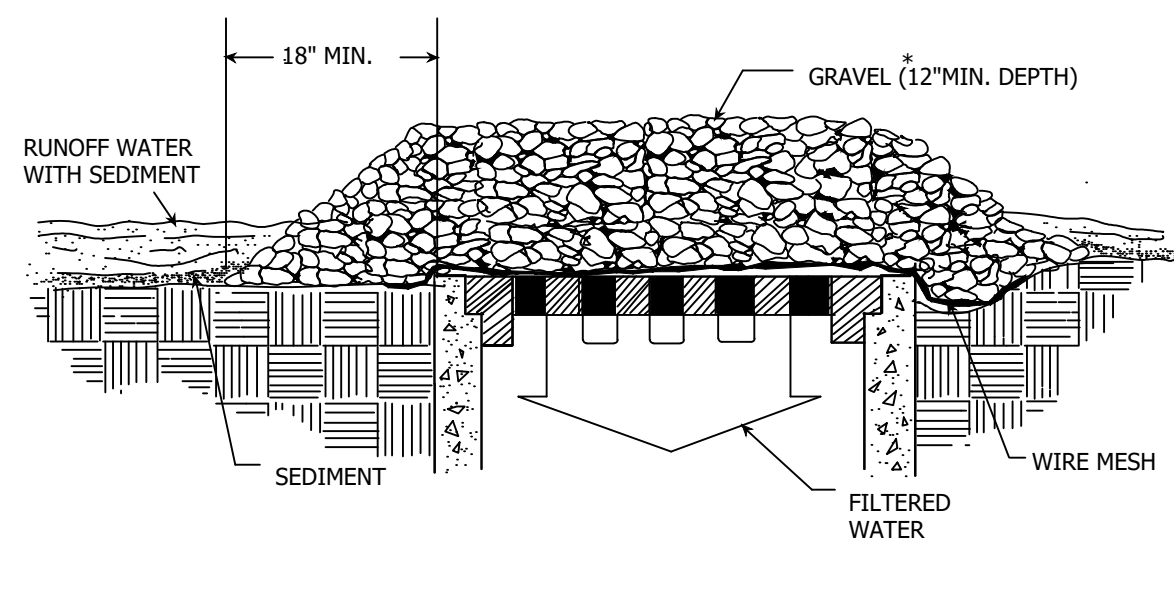




Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
4B	Urban land-Sassafras-Neabsco complex, 3 to 8 percent slopes	6.0	53.6%
7C	Glencol-Urban land complex, 8 to 15 percent slopes	0.9	7.7%
7D	Glencol-Urban land complex, 15 to 25 percent slopes	0.8	7.3%
12	Urban land-Udorthentis complex, 2 to 15 percent slopes	3.5	31.5%
<b>Totals for Area of Interest</b>		<b>11.2</b>	<b>100.0%</b>

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

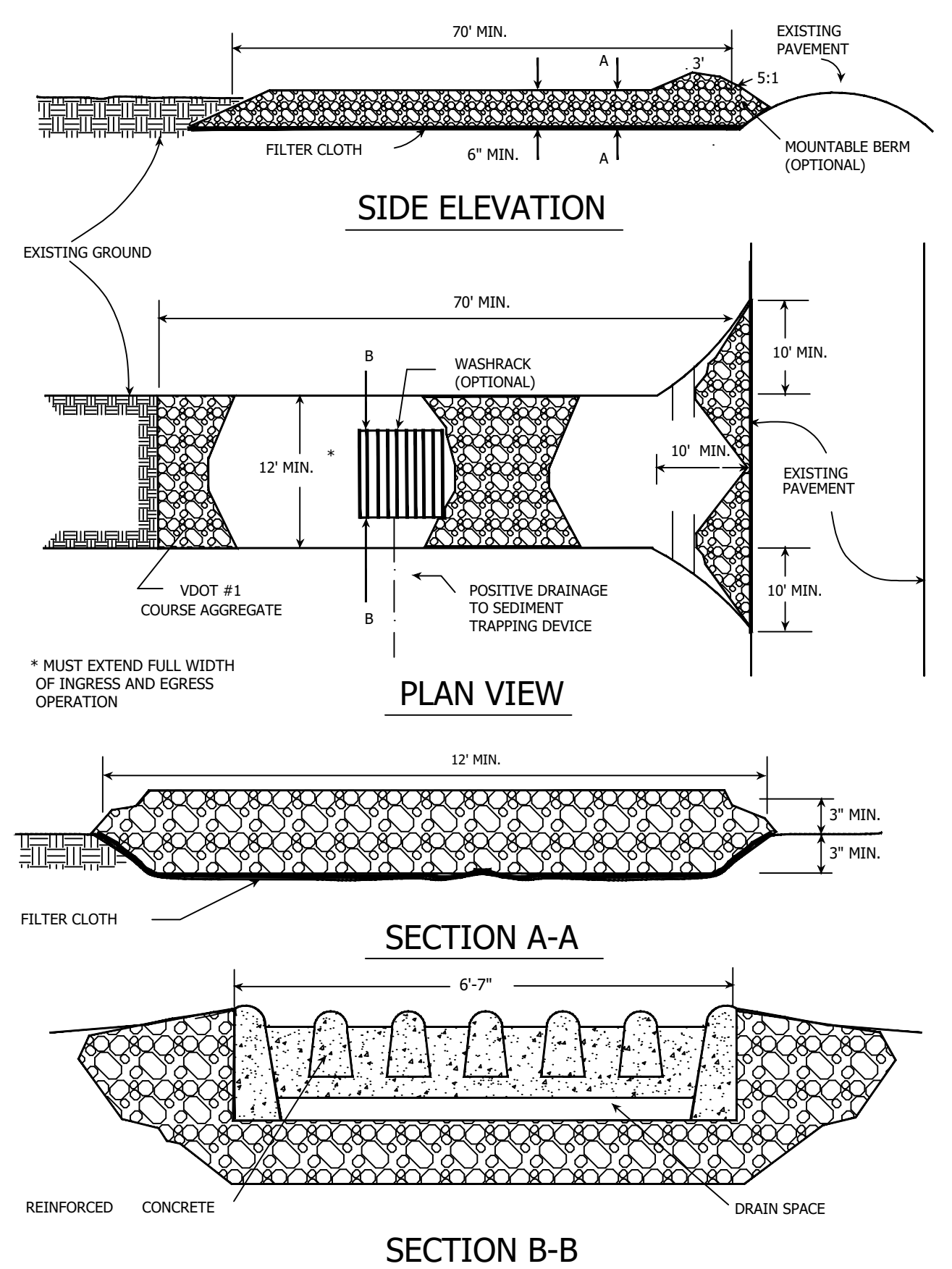


SPECIFIC APPLICATION

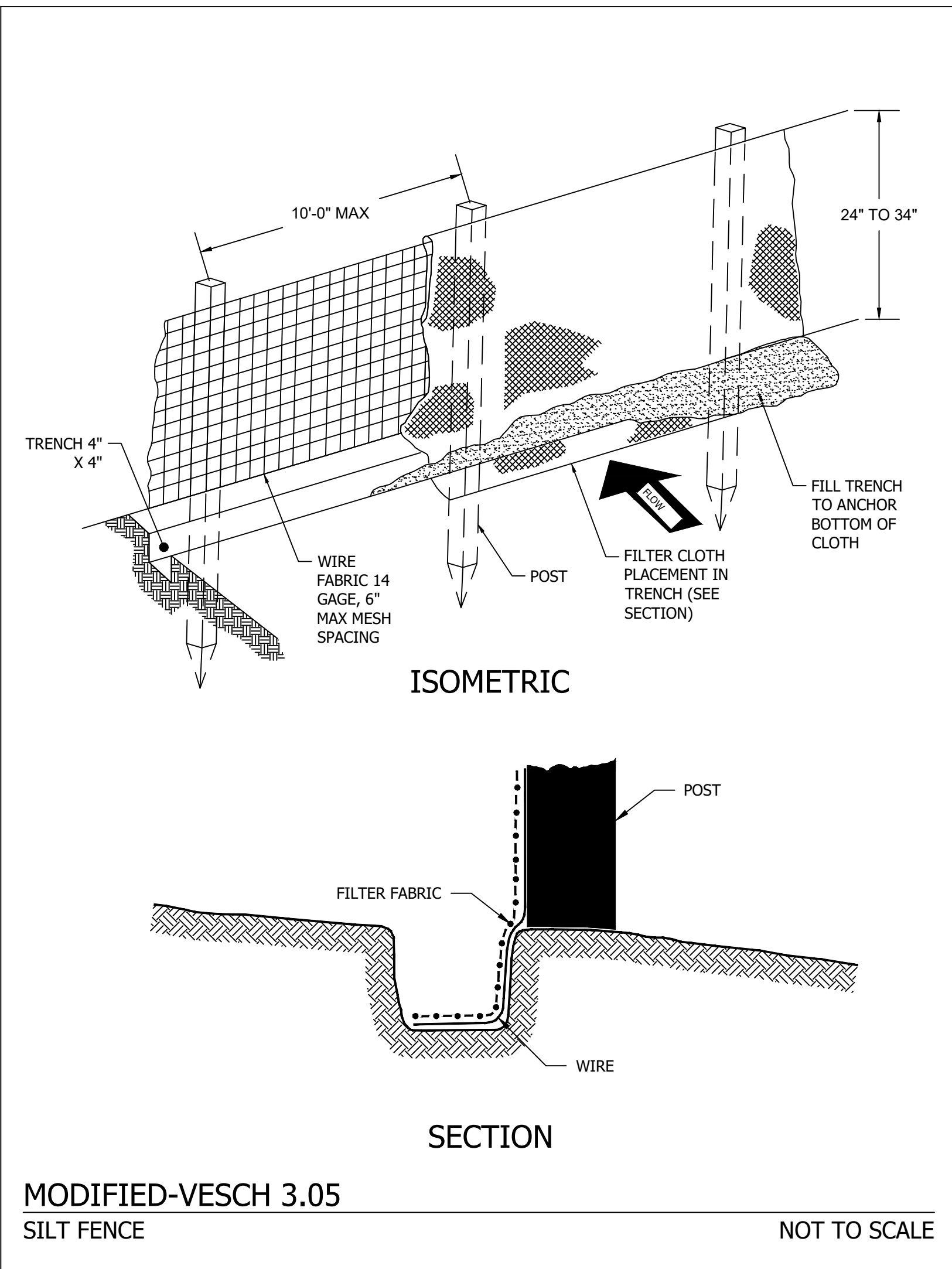
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

\* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

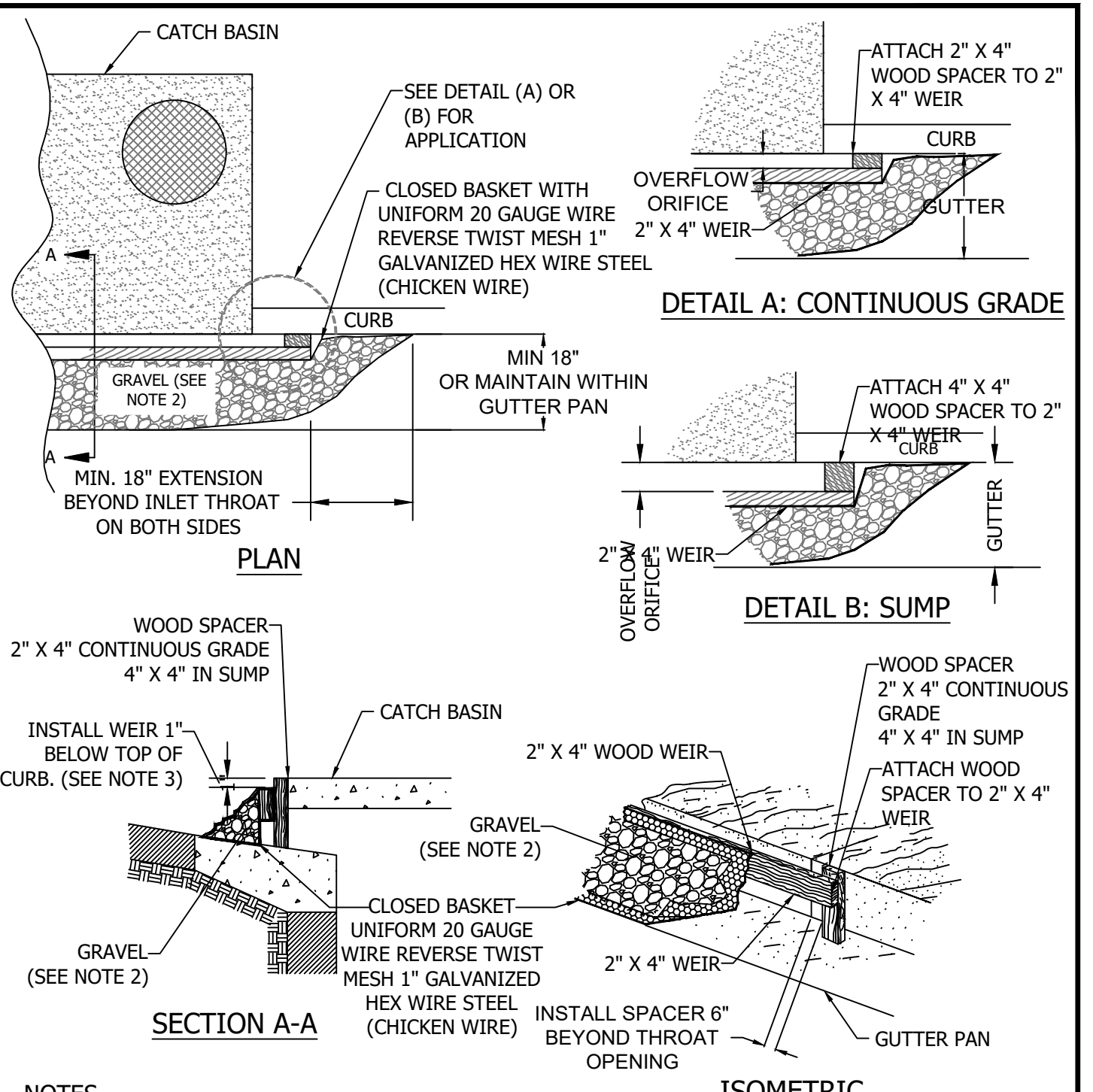
STONE CONSTRUCTION ENTRANCE



SOURCE: ADAPTED FROM 1983 MARYLAND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, AND VA. DSWC PLATE 3.02-1

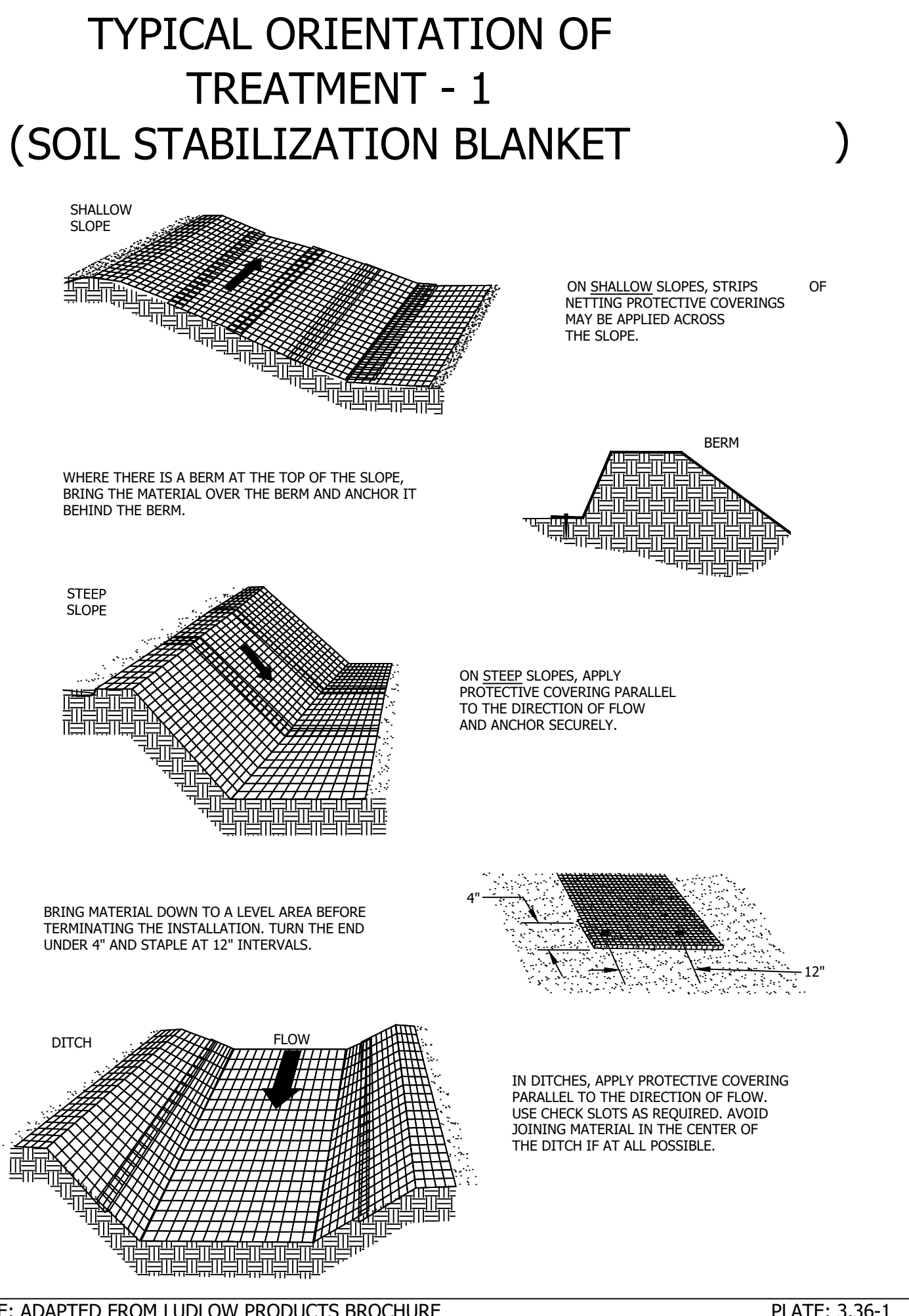


MODIFIED-VESCH 3.05 SILT FENCE NOT TO SCALE

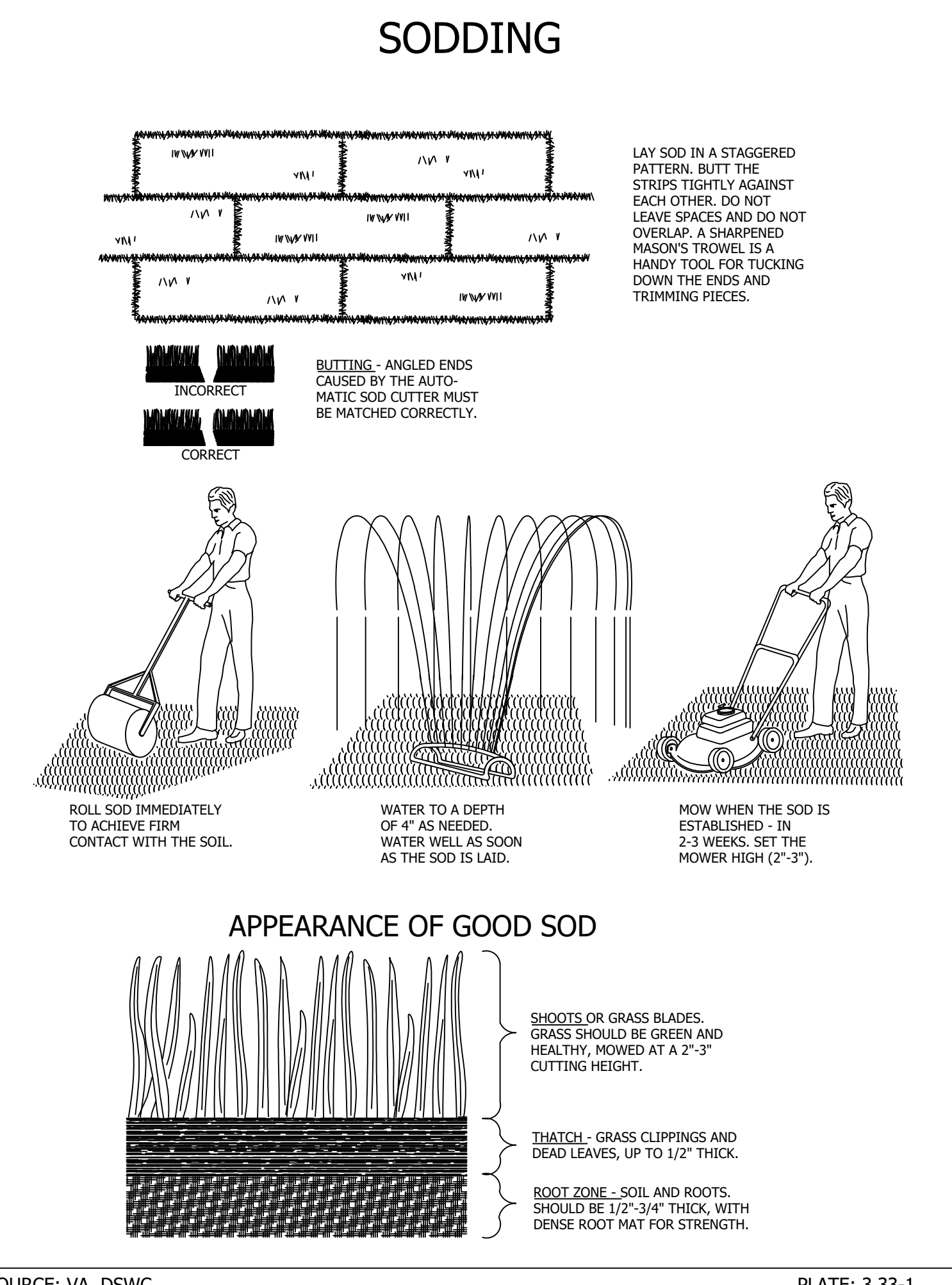


- NOTES
1. DIMENSIONAL LUMBER SIZES SHOW.
  2. GRAVEL SHALL BE VDOT COARSE AGGREGATE #3, #357 OR #5.
  3. WEIR HEIGHT MAY BE ADJUSTED BY PROJECT OFFICER OR INSPECTOR IN FLOOD PRONE AREAS.
  4. PAINT 2"x4" WEIR, CLOSED BASKET, AND GUTTER WITH HIGH VISIBILITY INCANDESCENT ORANGE PAINT.
  5. REMOVE SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE THE PROTECTION.

REVISION & DATE



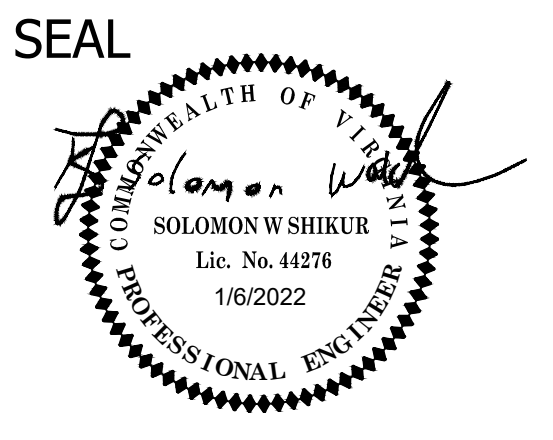
SOURCE: ADAPTED FROM LUDLOW PRODUCTS BROCHURE PLATE: 3.36-1



SOURCE: VA. DSWC PLATE: 3.33-1

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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APPROVALS	DATE
Amy Pflaum QUALITY CONTROL ENGINEER	01/18/22
Adam E. Sulawski CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
[Signature] WATER, SEWER, STREETS BUREAU CHIEF	1.21.2022
Dennis M. Leach TRANSPORTATION DIRECTOR	01/27/22
John Mier PROJECT MANAGER	1/27/22

REVISIONS	DATE

NORTHSIDE SALT STORAGE SITE  
SLT1  
SE CORNER OF OLD DOMINION DR & 26TH ST N  
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

DESIGNED: SEB
DRAWN: SEB
CHECKED: SWS

PLOTTED: JANUARY 6 2022

SCALE:  
  
AS SHOWN

STORMWATER POLLUTION PREVENTION PLAN

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

For Construction Activities At:
Northside Salt Storage Site
SE Corner of Old Dominion Dr. & 26th St. N.
Arlington, VA, 22207

Latitude: 38.902942 N (decimal degrees)
Longitude: 77.126444 W (decimal degrees)

Construction Activity Operator:

Arlington County
Department of Environmental Services
2100 Clarendon Blvd., Suite 813
Arlington, VA 22201
c/o Solomon Shikur, P.E.
(703)228-3654
sshikur@arlingtonva.us
(703)228-6555 (24-hour Emergency)

SWPPP Preparation Date:

October 25, 2021

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

1.0 SWPPP Documents Located Onsite & Available for Review

Table with columns: SWPPP Document Type, Located Onsite & Available for Review? (Yes/No/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

Table with columns: Type of Authorized Non-Stormwater Discharges, Likely Present at Your Project Site? (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

Table with columns: Select all that apply, Erosion & Sediment Control, Estimated Installation Date, Estimated Removal Date, Responsible Party

Arlington County SWPPP 12/2016

STORMWATER POLLUTION PREVENTION PLAN

Table with columns: (Std. & Spec 3.08 and/or Arlington County Std. & Spec from approved ESC plan), (Std. & Spec 3.26 and/or Arlington County Std. & Spec from approved ESC plan), (Std. & Spec 3.27 and/or Arlington County Std. & Spec from approved ESC plan), (Arlington County Std. & Spec from approved ESC plan), Stream Crossing / Cofferdams (Std. & Spec 3.25 or on plan), Pump Around System (detail on approved plan), Rip Rap (Std. & Spec. 3-19)

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.
Stockpiled soil and other loose materials that can be washed away shall be covered with a tarp, plastic sheeting, or other stabilization matting.
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

STANDARD NOTE FROM STORMWATER MANUAL: 2.4 POLLUTION PREVENTION PLAN (P2 PLAN)

ONLY THE FOLLOWING NON-STORMWATER DISCHARGES ARE AUTHORIZED BY ARLINGTON COUNTY'S MS4 PERMIT, UNLESS THE STATE WATER CONTROL BOARD, THE VIRGINIA SOIL AND WATER CONSERVATION BOARD (BOARD), OR ARLINGTON COUNTY DETERMINES THE DISCHARGE TO BE A SIGNIFICANT SOURCE OF POLLUTANTS TO SURFACE WATERS:

WATER LINE FLUSHING; 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; DISCHARGES OR FLOWS FROM FIRE FIGHTING; AND, OTHER ACTIVITIES GENERATING DISCHARGES IDENTIFIED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AS NOT REQUIRING VPDES AUTHORIZATION.

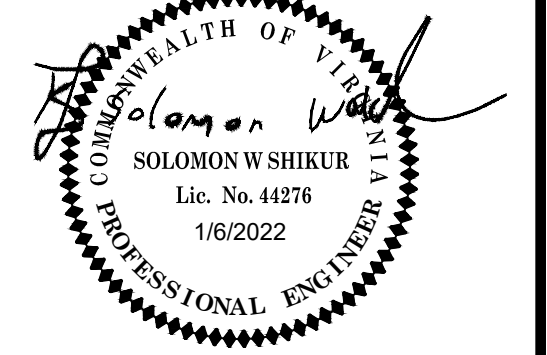
APPROPRIATE CONTROLS MUST BE IMPLEMENTED TO PREVENT ANY NON-STORMWATER DISCHARGES NOT INCLUDED ON THE ABOVE LIST (E.G., CONCRETE WASH WATER, PAINT WASH WATER, VEHICLE WASH WATER, DETERGENT WASH WATER, ETC.) FROM BEING DISCHARGED INTO ARLINGTON COUNTY'S MS4 SYSTEM, WHICH INCLUDES THE CURB AND GUTTER SYSTEM, AS WELL AS CATCH BASINS AND OTHER STORM DRAIN INLETS, OR STREAM NETWORK.

PER CHAPTER 26 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.

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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SEAL



APPROVALS DATE

Approval list with names and dates: Amy Pflaum (01/18/22), Adam E. Sulawski (1/20/22), Construction Management Supervisor (1/21/2022), Darnice M. Leach (01/27/22), Transportation Director, John M... (1/27/22), Project Manager.

REVISIONS DATE

Table for revisions with columns for description and date.

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.

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

- 1. 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.
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: 703-658-2222
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: [ ] Yes [ ] No
Location(s) of spill kit: \_\_\_\_\_

Arlington County SWPPP 12/2016

10/25/2021 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:
4753 Old Dominion Drive
SE Corner of Old Dominion Dr. and 26th St N.

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:

- 1. Reviewing the erosion and sedimentation (E&S) plan for the project.
2. Walking the site prior to construction to identify critical areas.
3. 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.
4. 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.
5. Reporting to the owner the presence inadequate or non functioning E&S controls when they are observed.
6. 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.
7. Calling (703) 228-0760 at least 80 hours before demolishing any structure.

I may be reached at 703-228-3654 with questions about this plan or my execution of the duties of Responsible Land Disturber.

Sincerely,

Solomon W. Shikur
44276
professional registration (type and number)

STORMWATER POLLUTION PREVENTION PLAN

5.0 Potential Sources of Pollution & Pollution Prevention Practices

Table with columns: Pollutant-Generating Activity, Likely Present at your Project Site?, Sediment, Nutrients, Heavy Metals, pH (acids and bases), Pesticides & Herbicides, Oil & Grease, Bacteria & Viruses, Trash, Debris, Solids, Other Toxic Chemicals, Pollution Prevention Practices, Responsible Party

Arlington County SWPPP 11/2016

NORTHSIDE SALT STORAGE SITE
SLT1
SE CORNER OF OLD DOMINION DR & 26TH ST N

SWPPP

DESIGNED: SEB
DRAWN: SEB
CHECKED: SWS

PLOTTED: JANUARY 6 2022

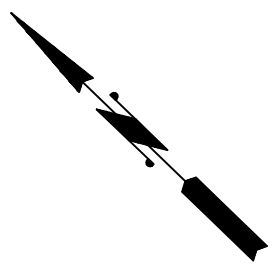
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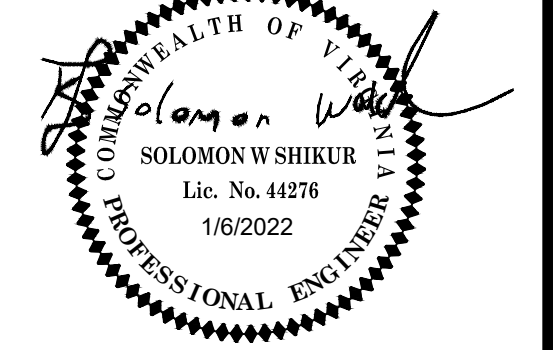
C035.1

CONSTRUCTION NOTES

- 1 PROPOSED 15" HP STORM PIPE
- 1A REMOVE EXISTING PIPE AND INSTALL PROPOSED 15" HP STORM PIPE AS SHOWN ON C073.1
- 1B PROPOSED 18" HP STORM PIPE
- 2 REMOVE EXISTING RCP STORM PIPE AND INSTALL PROPOSED 18" CLASS III RCP STORM PIPE
- 3 NYLOPLAST DRAIN BASIN WITH STANDARD 18" FRAME AND GRATE, OR APPROVED EQUAL
- 4 PROPOSED 3'x3' NYLOPLAST INLET OR APPROVED EQUAL. PERMANENT INLET PROTECTION TO BE UTILIZED AND SHALL BE MAINTAINED AS PART OF EXISTING SWPPP
- 5 PROPOSED MH-1 PER ARLINGTON COUNTY STANDARD DETAIL (D-3.0)
- 6 PROPOSED NONROADWAY GRATE INLET PER ARLINGTON COUNTY STANDARD DETAIL (D-1.9). PERMANENT INLET PROTECTION TO BE UTILIZED AND SHALL BE MAINTAINED AS PART OF EXISTING SWPPP
- 7 REPLACE EXISTING GRATE INLET FOR NEW INVERTS. GRATE TYPE REMAINS THE SAME
- 8 REPLACE EXISTING STRUCTURE 22529 (CB-2A) PER ARLINGTON COUNTY STANDARD DETAIL (D-1.3) FOR NEW INVERTS
- 9 REPLACE EXISTING STRUCTURE 2417 (YARD INLET) PER ARLINGTON COUNTY STANDARD DETAIL (D-1.10) FOR NEW INVERTS
- 10 PROPOSED MANUFACTURED FILTERING DEVICE
- 11 SEE DETAIL ON SHEET C082.1. TO BE MAINTAINED AS PART OF OSEM MAINTENANCE
- 12 PROPOSED STORMWATER DETENTION SYSTEM
- 13 SEE DETAIL ON SHEET C082.1. TO BE MAINTAINED AS PART OF OSEM MAINTENANCE
- 14 PROPOSED 30" NYLOPLAST INLINE DRAIN WITH SOLID COVER (OR APPROVED EQUAL), SEE DETAIL ON SHEET C082.1
- 15 PROPOSED LIMITS OF DISTURBANCE (TYP.)
- 16 REPLACE EXISTING CURB AND GUTTER (C-2) PER ARLINGTON COUNTY STANDARD DETAIL (R-2.0) WITHIN LIMITS OF DISTURBANCE
- 17 PROPOSED REINFORCED CONCRETE PAD, SEE DETAIL ON SHEET C002.2.
- 18 PROPOSED FULL-DEPTH ASPHALT (TYP.)
- 19 PROPOSED MILL AND OVERLAY 2" OF EXISTING ASPHALT PAVEMENT.
- 20 PROPOSED REMOVAL AND REPLACEMENT OF RETAINING WALL (WITHIN LIMITS OF DISTURBANCE).
- 21 PROPOSED BRINE MACHINE, STORAGE DRUMS, AND EQUIPMENT SHED (CONSTRUCTION DONE BY OTHERS).
- 22 PROPOSED 8" THICK, 24'x24' CONCRETE PAD BENEATH BRINE MACHINE DRUMS, 12'x6.5' CONCRETE PAD BENEATH BRINE MACHINE, 18'x6' CONCRETE PAD BENEATH EQUIPMENT SHED.
- 23 PROPOSED 2" WATER SERVICE LINE TO BRINE MACHINE. CONNECTION TO BE FINALIZED AT TIME OF BRINE MACHINE CONSTRUCTION (BY OTHERS).
- 24 PROPOSED ELECTRIC CONDUIT FROM C0918 TO BRINE MACHINE. CONNECTION TO BE FINALIZED AT TIME OF BRINE MACHINE CONSTRUCTION (BY OTHERS).
- 25 PROPOSED 8' CHAIN LINK FENCE



SEAL



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	01/18/22
<i>Adam E. Sulawski</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
<i>John M. Leach</i> WATER, SEWER, STREETS BUREAU CHIEF	1.21.2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	01/27/22
<i>John M. Leach</i> PROJECT MANAGER	1/27/22

REVISIONS

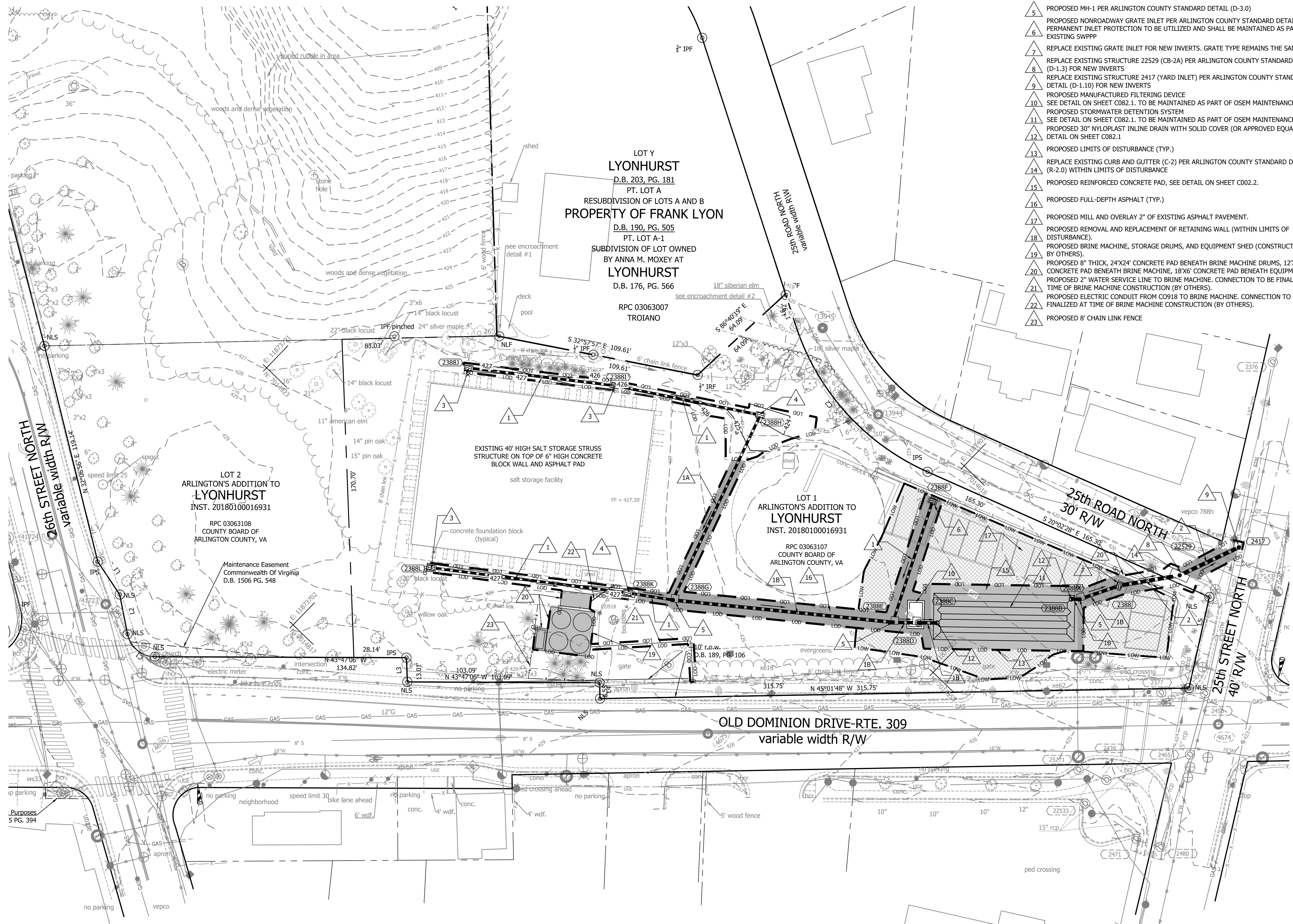
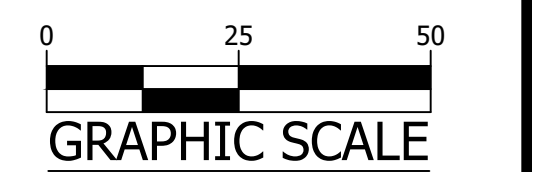
REVISIONS	DATE

NORTHSIDE SALT STORAGE SITE  
SLT1  
SE CORNER OF OLD DOMINION DR & 26TH ST N  
SITE PLAN

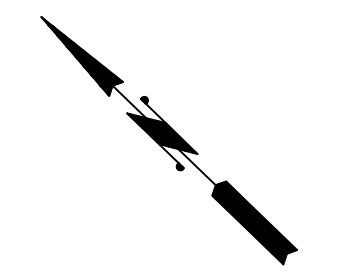
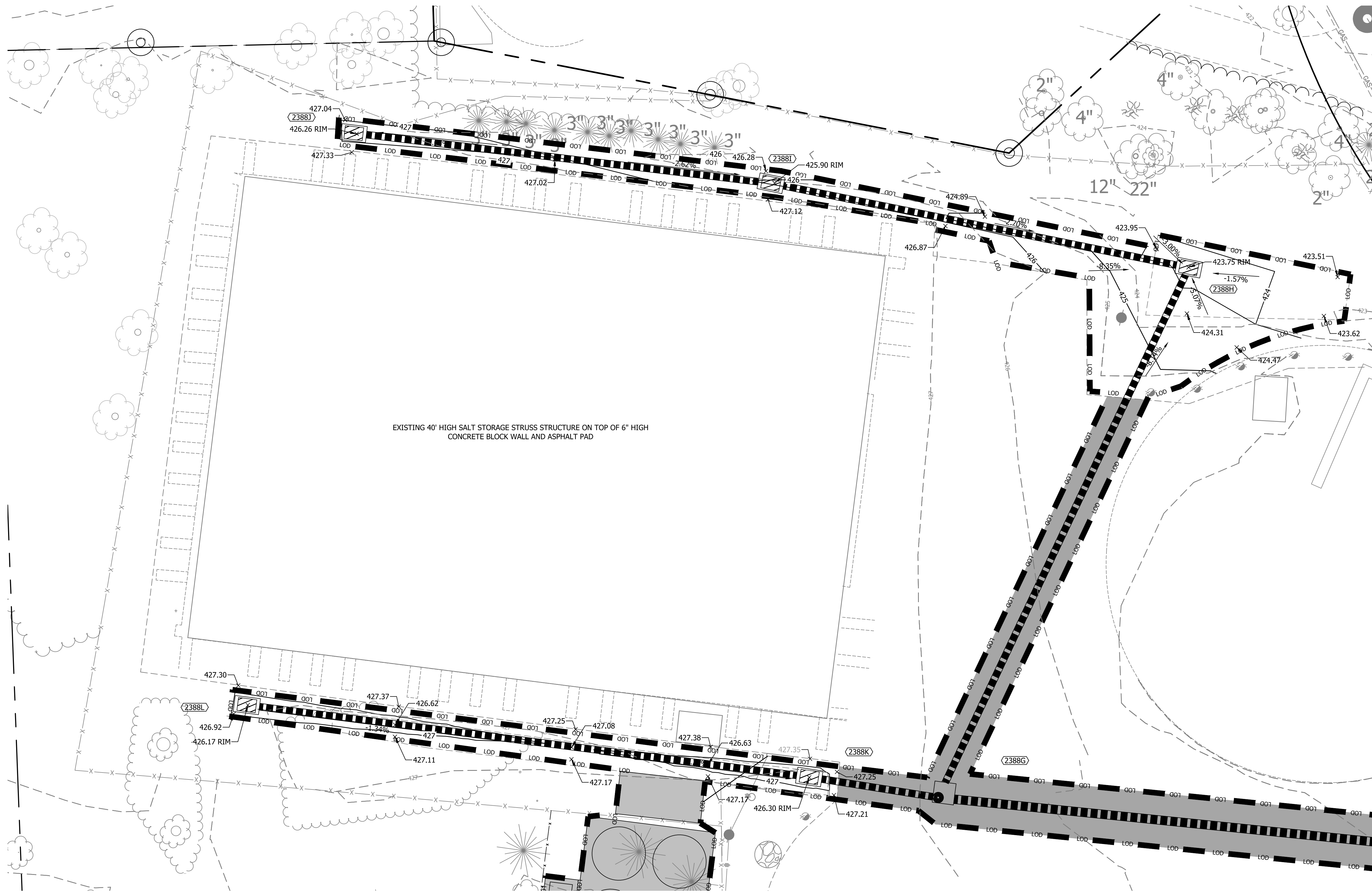
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CHECKED: SWS

PLOTTED: JANUARY 6 2022

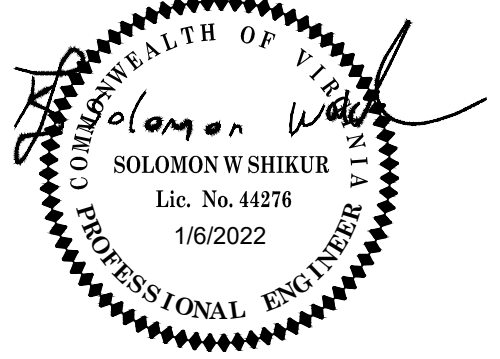
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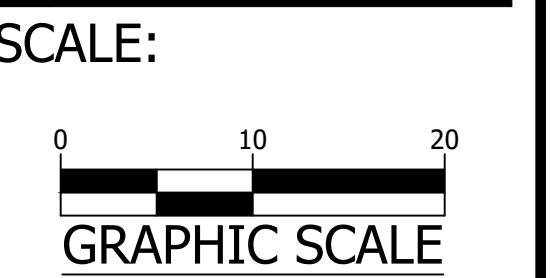
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<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	01/18/22
<i>Adam E. Sulawski</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1.21.2022
<i>Dannia M. Leach</i> TRANSPORTATION DIRECTOR	01/27/22
<i>John M. [Signature]</i> PROJECT MANAGER	1/27/22

REVISIONS	DATE

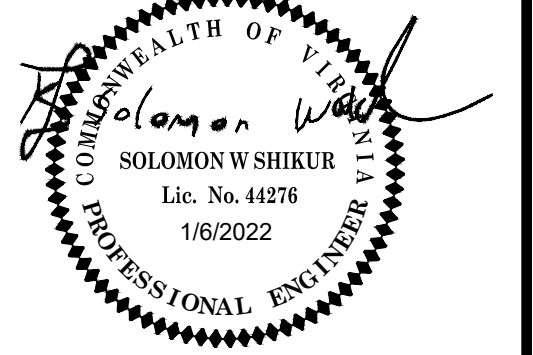
NORTHSIDE SALT STORAGE SITE  
 SLT1  
 SE CORNER OF OLD DOMINION DR & 26TH ST N  
 GRADING PLAN

DESIGNED: SEB  
 DRAWN: SEB  
 CHECKED: SWS

PLOTTED: JANUARY 6 2022



SEAL

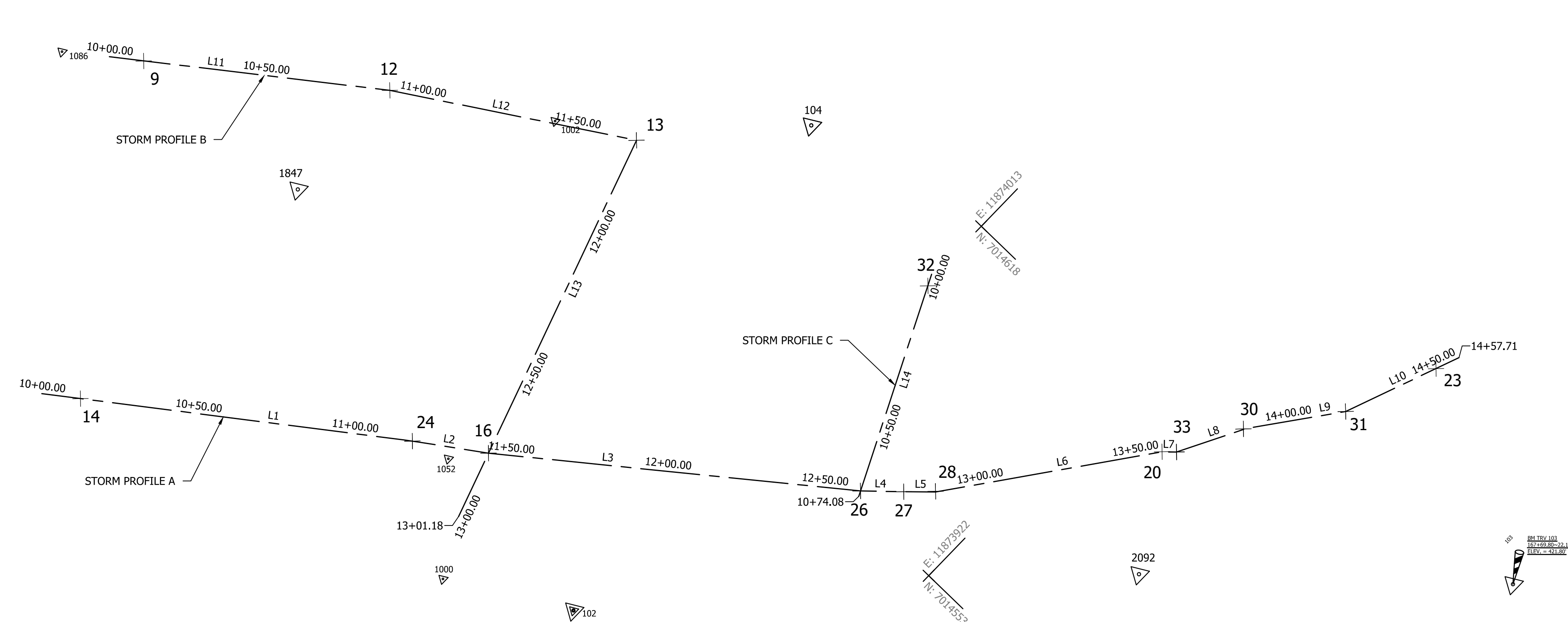


APPROVALS DATE

Table with columns for Approvals and Dates, listing Amy Pflaum (Quality Control Engineer, 01/18/22), Adam E. Kulaury (Construction Management Supervisor, 1/20/22), Danna M. Leach (Transportation Director, 01/27/22), and John M... (Project Manager, 1/27/22).

REVISIONS DATE

Table with columns for Revisions and Dates, currently empty.



Point Table with columns: Point #, Name, Northing, Easting, Elevation. Lists points 9 through 33 with their respective coordinates and elevations.

ALIGNMENT: STORM PROFILE A. Table with columns: Curve/Line #, Length, Radius, Line/Chord Bearing, Chord Length, Delta (Δ), Tangent, STA (Start), STA (End), Northing, Easting (Start), Northing, Easting (End). Lists curves L1 through L10.

ALIGNMENT: STORM PROFILE B. Table with columns: Curve/Line #, Length, Radius, Line/Chord Bearing, Chord Length, Delta (Δ), Tangent, STA (Start), STA (End), Northing, Easting (Start), Northing, Easting (End). Lists curves L11 through L13.

ALIGNMENT: STORM PROFILE C. Table with columns: Curve/Line #, Length, Radius, Line/Chord Bearing, Chord Length, Delta (Δ), Tangent, STA (Start), STA (End), Northing, Easting (Start), Northing, Easting (End). Lists curve L14.

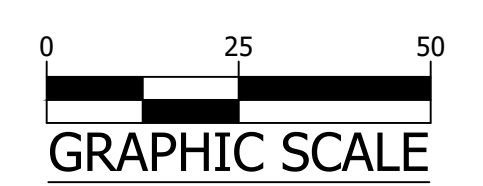
CONTROL DATA. Table with columns: Point No., Northing(Y), Easting(X), Elev(Z), Description. Lists points 101 through 1086 with their coordinates and descriptions.

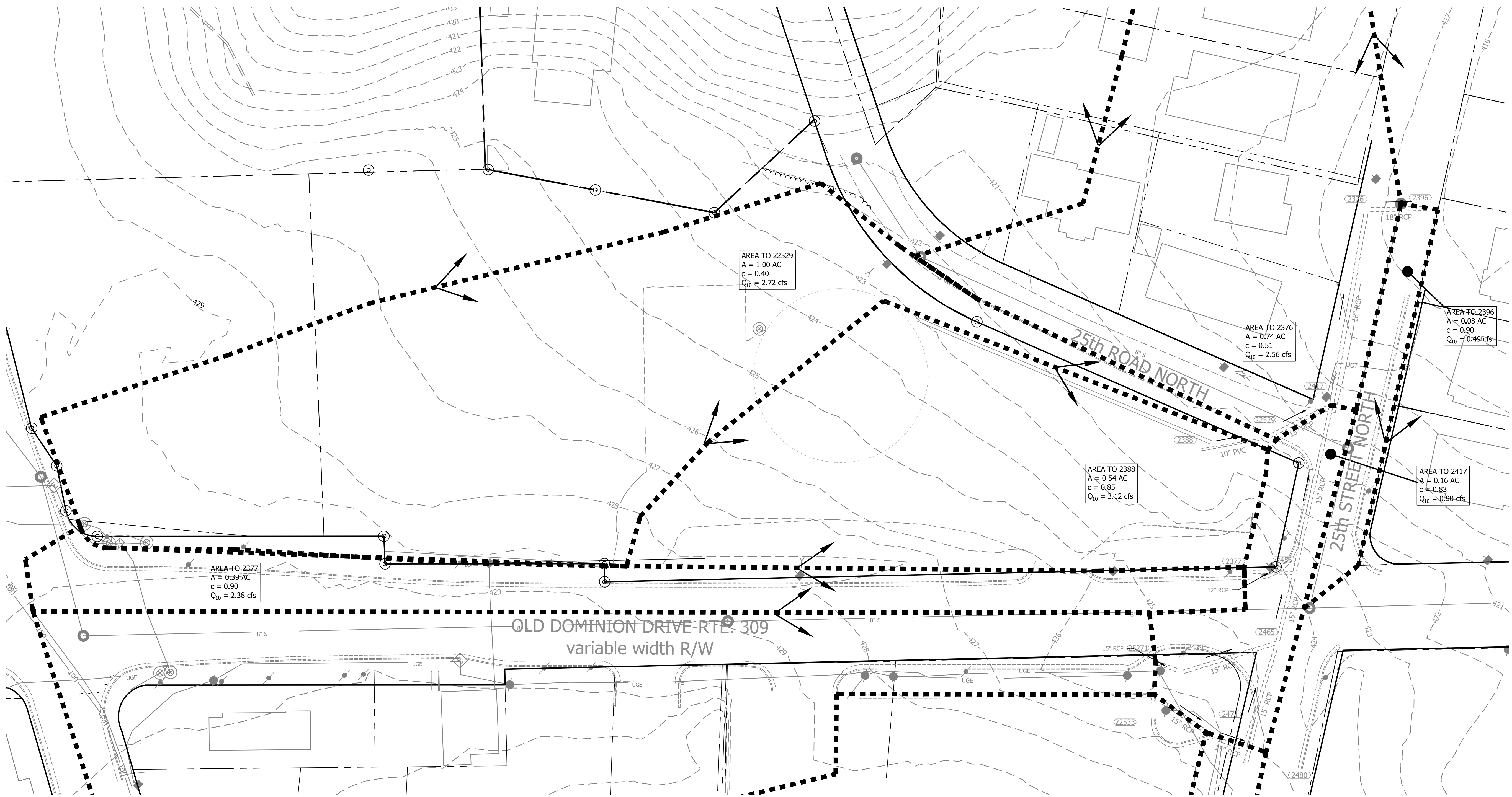
NORTHSIDE SALT STORAGE SITE SLT1 SE CORNER OF OLD DOMINION DR & 26TH ST N GEOMETRIC CONTROL PLAN

DESIGNED: SEB DRAWN: SEB CHECKED: SWS

PLOTTED: JANUARY 6 2022

SCALE:





AREA TO 2377  
 A = 0.39 AC  
 c = 0.90  
 Q<sub>10</sub> = 2.38 cfs

AREA TO 22529  
 A = 1.00 AC  
 c = 0.40  
 Q<sub>10</sub> = 2.72 cfs

AREA TO 2376  
 A = 0.74 AC  
 c = 0.51  
 Q<sub>10</sub> = 2.56 cfs

AREA TO 2396  
 A = 0.08 AC  
 c = 0.90  
 Q<sub>10</sub> = 0.49 cfs

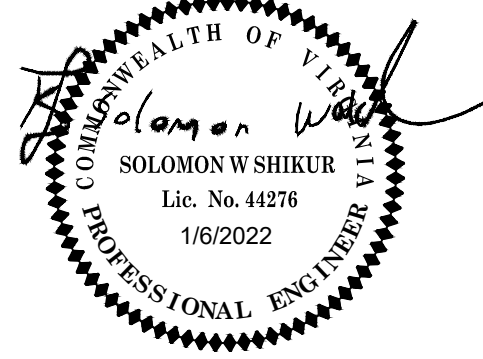
AREA TO 2388  
 A = 0.54 AC  
 c = 0.85  
 Q<sub>10</sub> = 3.12 cfs

AREA TO 2417  
 A = 0.16 AC  
 c = 0.83  
 Q<sub>10</sub> = 0.90 cfs

LEGEND

- EXISTING STORM SEWER LINE
- 18" RCP
- CATCH BASIN
- ▣ YARD INLET / GRATE INLET
- JUNCTION BOX / MANHOLE
- (2376) STRUCTURE NUMBER
- DRAINAGE DIVIDES
- OUTFALL

SEAL



APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	01/18/22
<i>Adam E. Sulawski</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
<i>John M. Leach</i> WATER, SEWER, STREETS BUREAU CHIEF	1.21.2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	01/27/22
<i>John M. Leach</i> PROJECT MANAGER	1/27/22

REVISIONS DATE

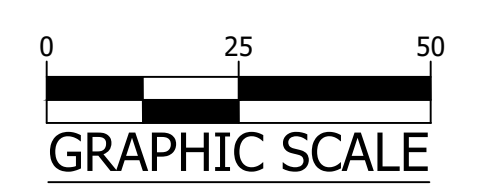
REVISIONS	DATE

NORTHSIDE SALT STORAGE SITE  
 SE CORNER OF OLD DOMINION DR & 26TH ST N  
 STORM SEWER DRAINAGE DIVIDES  
 (PRE-EXISTING)

DESIGNED: SEB  
 DRAWN: SEB  
 CHECKED: SWS

PLOTTED: JANUARY 6 2022

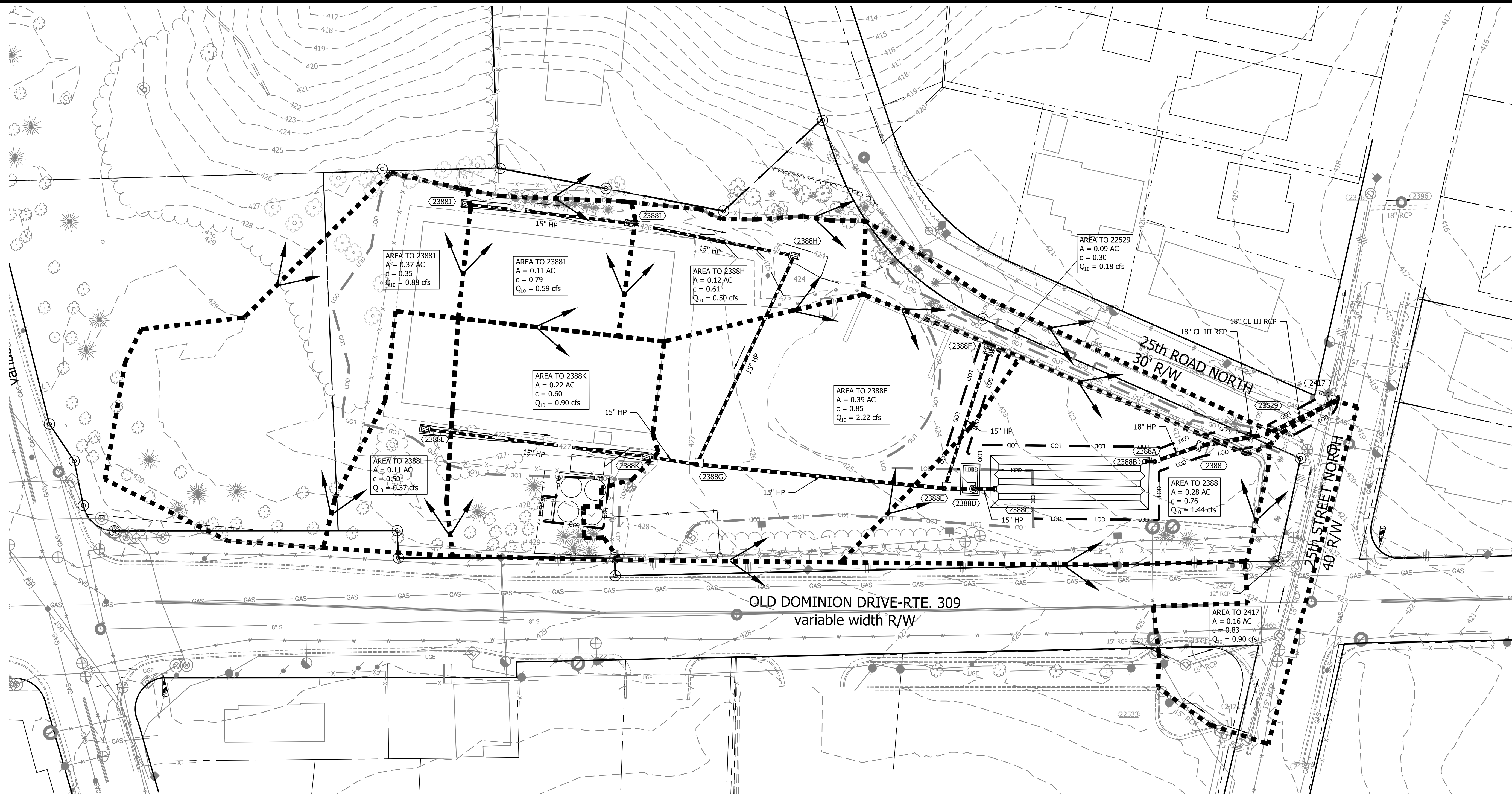
SCALE:



NOT FOR CONSTRUCTION  
 THIS SHEET FOR CALCULATION PURPOSES ONLY

REVISED ON 01/07/2021

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**LEGEND**

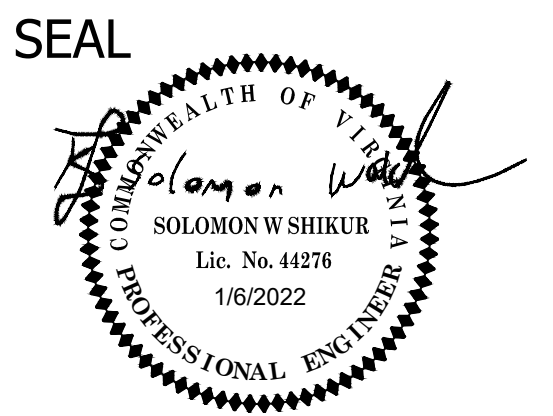
- PROPOSED STORM SEWER LINE  
18" RCP
- EXISTING STORM SEWER LINE  
18" RCP
- CATCH BASIN
- YARD INLET / GRATE INLET
- JUNCTION BOX / MANHOLE
- STRUCTURE NUMBER
- DRAINAGE DIVIDES
- OUTFALL

**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

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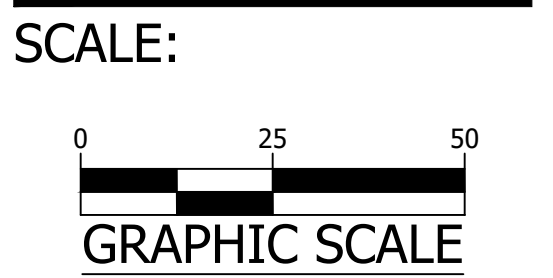
APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	01/18/22
<i>Adam E. Sulawski</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
<i>John M. Leach</i> WATER, SEWER, STREETS BUREAU CHIEF	1/21/2022
<i>Dennis M. Leach</i> TRANSPORTATION DIRECTOR	01/27/22
<i>John M. Leach</i> PROJECT MANAGER	1/27/22

REVISIONS	DATE

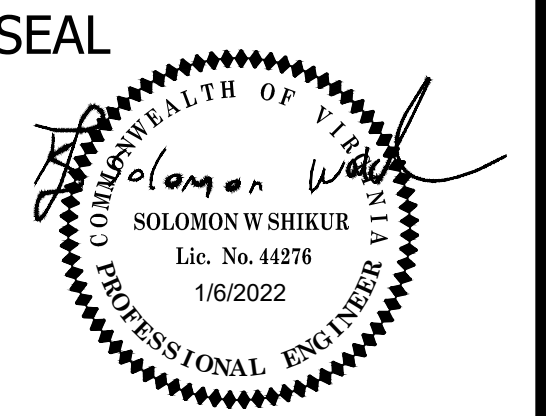
NORTHSIDE SALT STORAGE SITE  
SLT1  
SE CORNER OF OLD DOMINION DR & 26TH ST N  
**STORM SEWER DRAINAGE DIVIDES (PROPOSED)**

DESIGNED: SEB  
DRAWN: SEB  
CHECKED: SWS

PLOTTED: JANUARY 6 2022

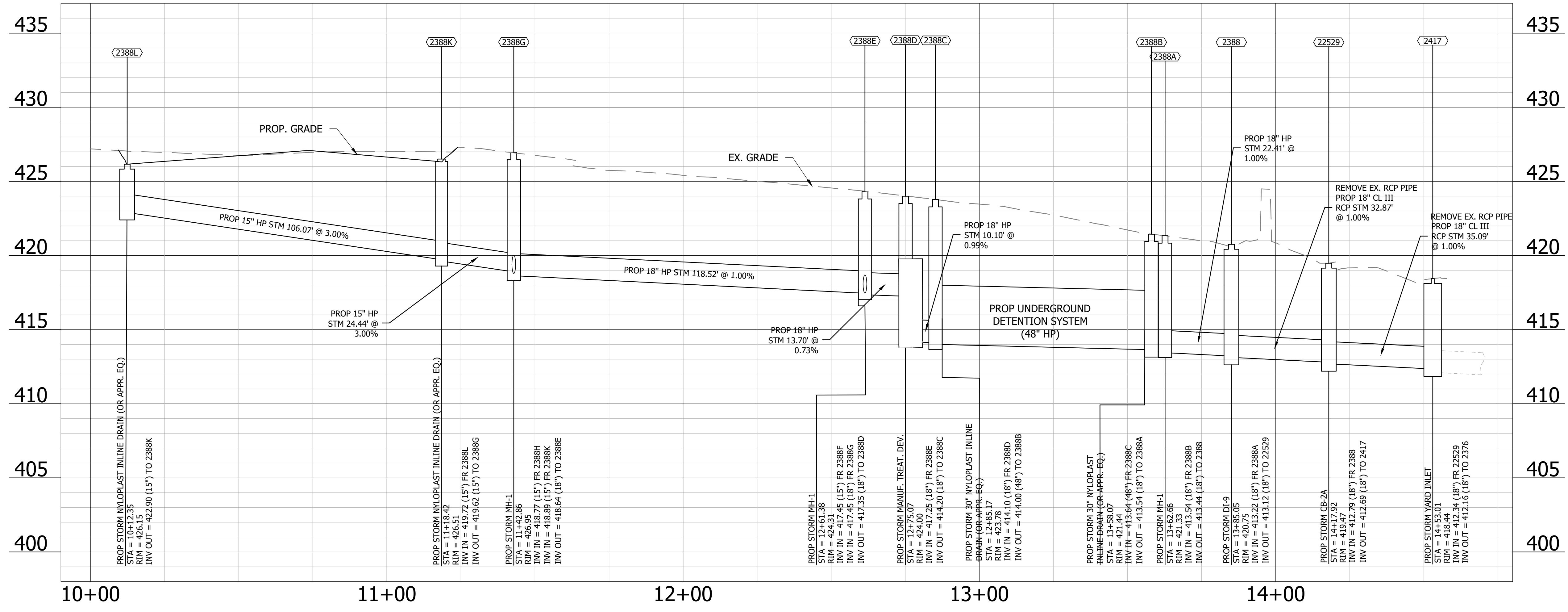


C071.2

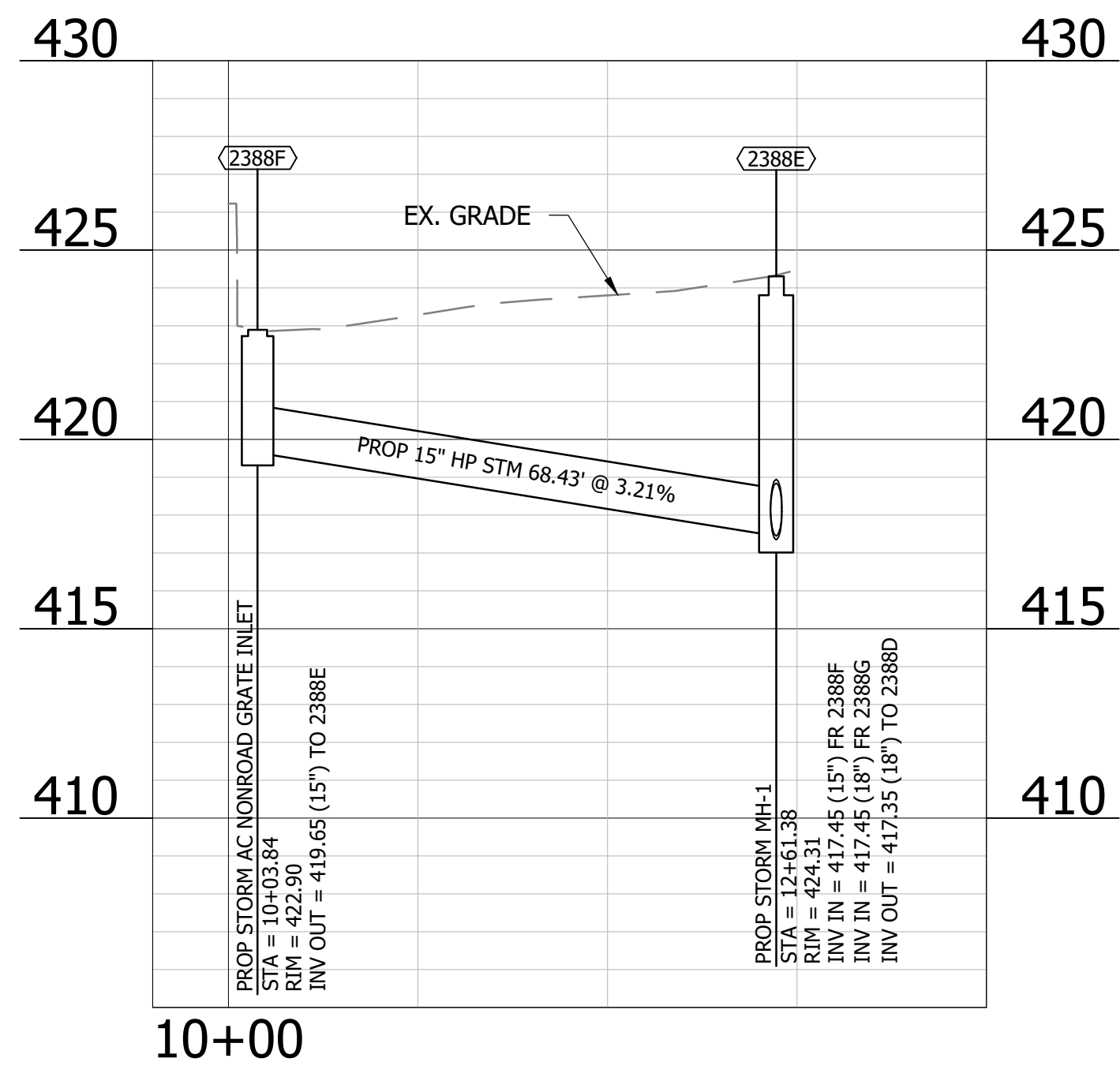


APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	01/18/22
<i>Adam E. Sulawski</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
<i>John M. Leach</i> WATER, SEWER, STREETS BUREAU CHIEF	1/21/2022
<i>Dannia M. Leach</i> TRANSPORTATION DIRECTOR	01/27/22
<i>John M. Leach</i> PROJECT MANAGER	1/27/22

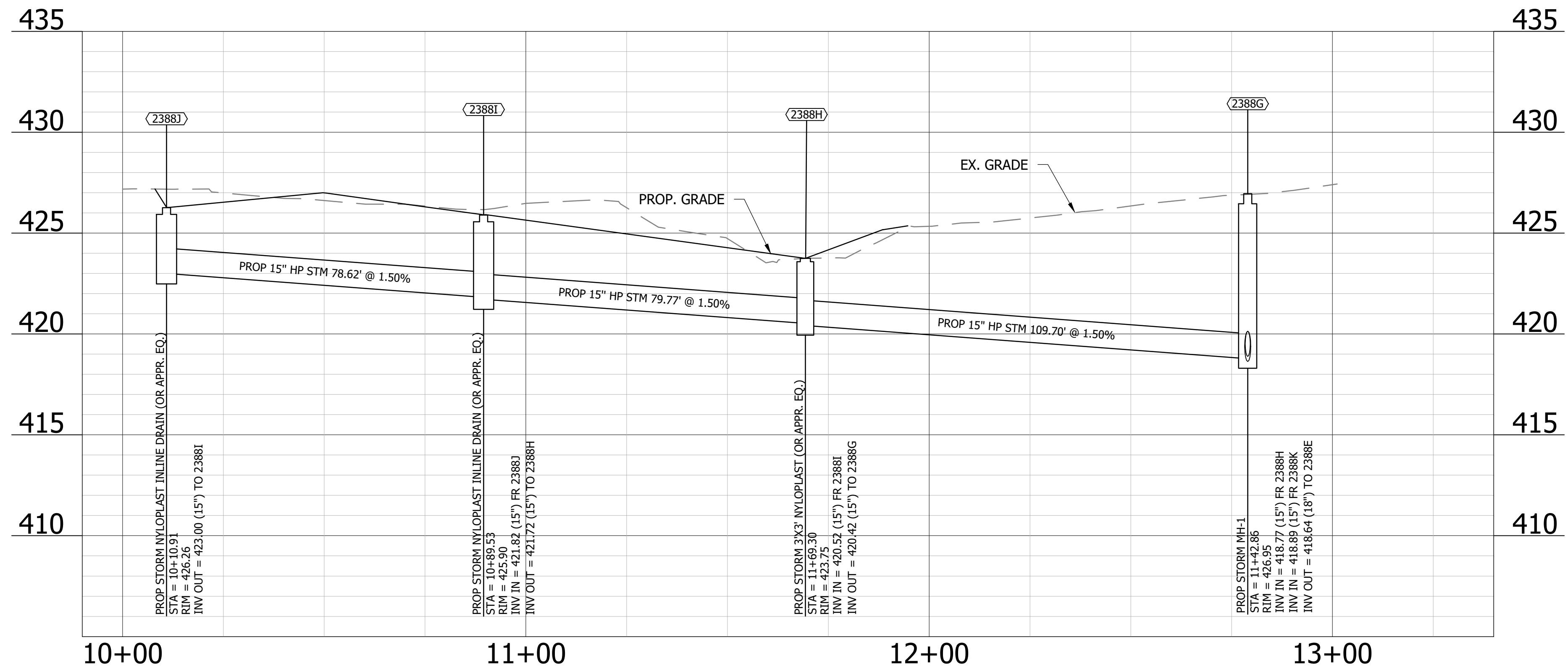
REVISIONS	DATE



STORM PROFILE A



STORM PROFILE C

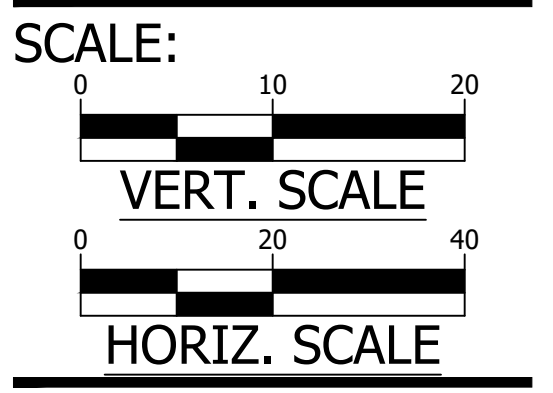


STORM PROFILE B

NORTHSIDE SALT STORAGE SITE  
SLT1  
SE CORNER OF OLD DOMINION DR & 26TH ST N  
STORM SEWER PROFILES

DESIGNED: SEB  
DRAWN: SEB  
CHECKED: SWS

PLOTTED: JANUARY 6 2022



Storm Inlet Computations Sheet

Table with columns for Inlet (Number, Type, Length, Station), Flow (Drainage Area, C, CA, I, Q, Carryover, QT), Curb Inlet (S, Sx, T, W, W/T, Sw, Sw/Sx, Eo), Local Depression (a, S'w, Se, n, LT, L/LT, d(FT)), T Spread @ Sag (Rt), Gate Inlets (Perimeter, Area, H Flow Depth), Yard Inlets (Q/L, h Throat, H Flow Depth, H/h), and Operation (E(%), Q Intercepted).

Hydraulic Grade Line Computations

Table with columns for Inlet Structure, Upstream Structure, Outlet Water Surface Elev. (Rt), Do (In), Qo (CFS), Lo (Rt), Sfo (%), Hf (Rt), Vo (Rt/S), Ho (Rt), Qi, Vi (Rt/s), QVI, V12/2g (Rt), Angle (deg), H Del (Rt), Ht (Rt), 1.3 Ht (Rt), 0.5 Ht (Rt), Final H (Rt), Inlet Water Surface Elev. (Rt), and Rim Elev. (Rt).

STORM SEWER DESIGN COMPUTATIONS - PRE-IMPROVEMENT CONDITIONS PRIOR TO CONSTRUCTION OF SALT STORAGE STRUCTURE

STORM SEWER DESIGN COMPUTATIONS

Table with columns for From Point, To Point, Drainage Area, C, C x A, Inlet Time, Rain Fall, Runoff Q, Invert Elev., Length, Slope, Dia., Capacity, VEL, and Flow Time. Includes a note: OFFSITE FLOW (FROM OLD DOMINION DRIVE & 25TH STREET NORTH) TO PIPE (2417 TO 2376) = 20.94 CFS - 5.83 CFS = 15.11 CFS.

OUTFALL FROM SALT DOME FACILITY

OFFSITE FLOW (FROM OLD DOMINION DRIVE & 25TH STREET NORTH) TO PIPE (2417 TO 2376) = 20.94 CFS - 5.83 CFS = 15.11 CFS

Storm Sewer Design Computations

Table with columns for From Point, To Point, Area Drain, Runoff Coefficient, CA, Inlet Time, Rainfall, Runoff Q, Invert Elevations, Length, Slope, Dia., Capacity, Velocity, and Flow Time. Includes a note: FLOW FROM 22529 - 2417: 5.25 CFS\* PROPOSED FLOW IN EX. PIPE (2417 TO 2376) = PROPOSED FLOW FROM SALT DOME FACILITY + OFFSITE FLOW = 5.25 CFS + 15.11 CFS = 20.36 CFS PROPOSED FLOW IN PIPE (2417 TO 2376) < EXISTING FLOW IN PIPE (2417 TO 2376) 20.36 CFS < 20.94 CFS.

OUTFALL FROM SALT DOME FACILITY

FLOW FROM 22529 - 2417: 5.25 CFS\* PROPOSED FLOW IN EX. PIPE (2417 TO 2376) = PROPOSED FLOW FROM SALT DOME FACILITY + OFFSITE FLOW = 5.25 CFS + 15.11 CFS = 20.36 CFS PROPOSED FLOW IN PIPE (2417 TO 2376) < EXISTING FLOW IN PIPE (2417 TO 2376) 20.36 CFS < 20.94 CFS

POST-IMPROVEMENT CONDITIONS PRIOR TO PROPOSED STORMWATER MANAGEMENT IMPROVEMENTS

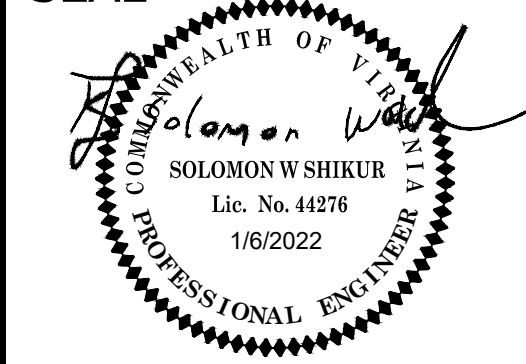
STORM SEWER DESIGN COMPUTATIONS

Table with columns for From Point, To Point, Drainage Area, C, C x A, Inlet Time, Rain Fall, Runoff Q, Invert Elev., Length, Slope, Dia., Capacity, VEL, and Flow Time. Includes a note: OFFSITE FLOW (FROM OLD DOMINION DRIVE & 25TH STREET NORTH) TO PIPE (2417 TO 2376) = 21.08 CFS - 5.97 CFS = 15.11 CFS.

OUTFALL FROM SALT DOME FACILITY

OFFSITE FLOW (FROM OLD DOMINION DRIVE & 25TH STREET NORTH) TO PIPE (2417 TO 2376) = 21.08 CFS - 5.97 CFS = 15.11 CFS

SEAL



APPROVALS DATE

Approval signatures and dates: Amy Pflaum (01/18/22), Adam E. Kulaury (1/20/22), Darnis M. Leach (01/27/22), John M. (1/27/22).

REVISIONS DATE

Table with columns for Revisions and Dates, currently empty.

NORTHSIDE SALT STORAGE SITE SLT1 SE CORNER OF OLD DOMINION DR & 26TH ST N STORM COMPUTATIONS

DESIGNED: SEB DRAWN: SEB CHECKED: SWS

PLOTTED: JANUARY 6 2022

SCALE:

N/A

Certification Letter for Proprietary BMP

Company Name
Address
Date
Stormwater Specialist
Department of Environmental Services
2100 Clarendon Blvd
Suite 705
Arlington, VA 22201

RE: Stormwater Management Facility (SWMF) As-Built Certification
[PROJECT NAME]
[PROJECT ADDRESS]
Arlington, VA
[BUILDING PERMIT #], [LDA#], [SWM#]

Dear Sir or Madam,

We have inspected the [TYPE OF SWMF FACILITY] facility that was constructed as part of the above referenced project and determined that it has been installed in accordance to the County approved plan dated [INSERT DATE OF ENGINEER'S STAMP ON APPROVED PLANS].

Based on the as-built conditions of the site, facility [X] treats [TOTAL AREA TREATED] of which [AMOUNT OF IMPERVIOUS AREA TREATED] is impervious. Facility [Y] treats [TOTAL AREA TREATED] of which [AMOUNT OF IMPERVIOUS AREA TREATED] is impervious, therefore the facility meets the requirements of the Arlington County's Stormwater Ordinance.

For reference, the as-built drawings are attached showing the sizing of the facility along with the activation letter from the manufacturer. As required, the as-built drawings include the inverts for all inflow/outfall pipes connected to the facility. Therefore, it is our professional opinion that the facility was installed in accordance to the County approved plan and that the facility is functioning as designed.

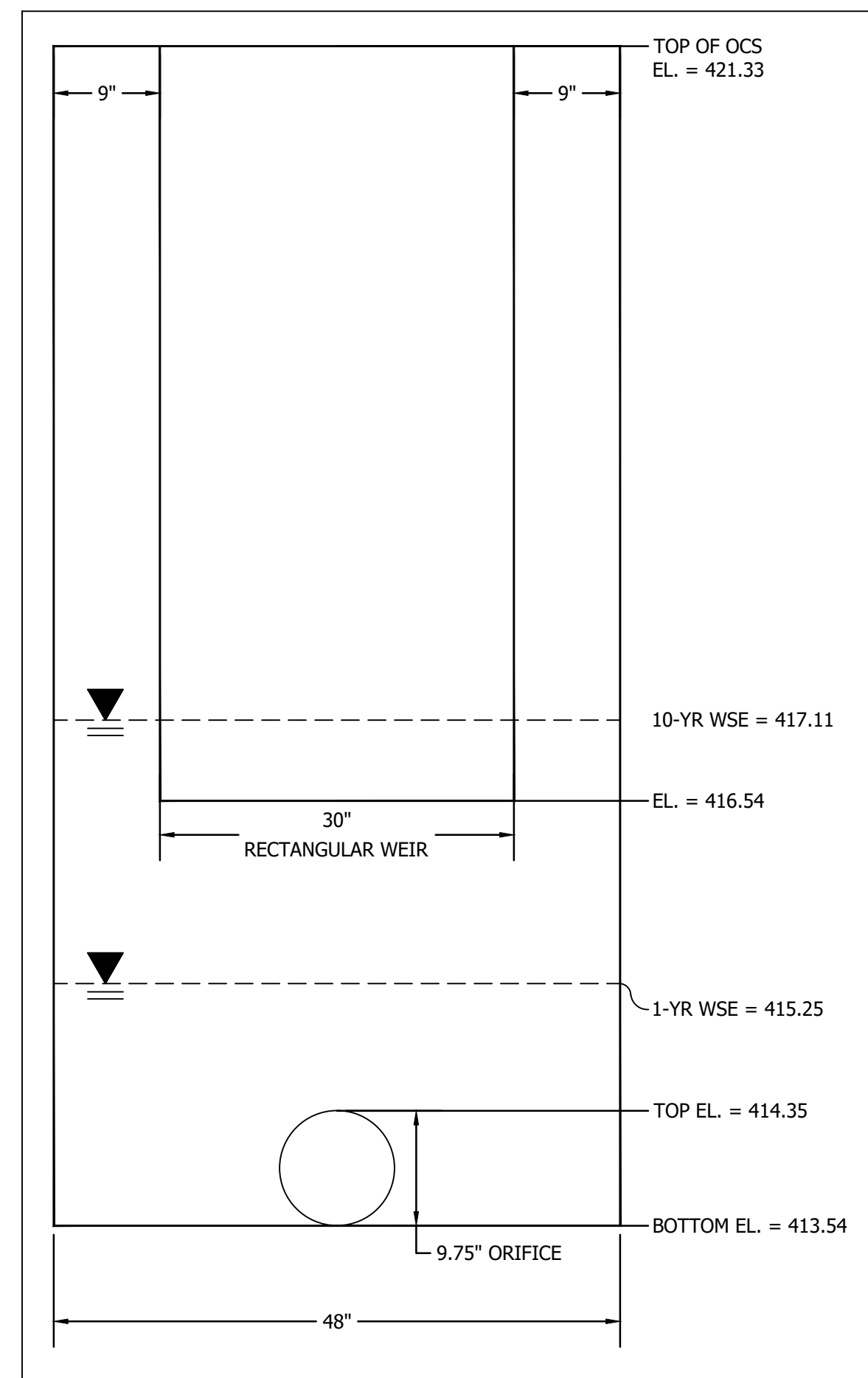
If you have any questions regarding the above-mentioned facility, please do not hesitate to call me.

Respectfully,

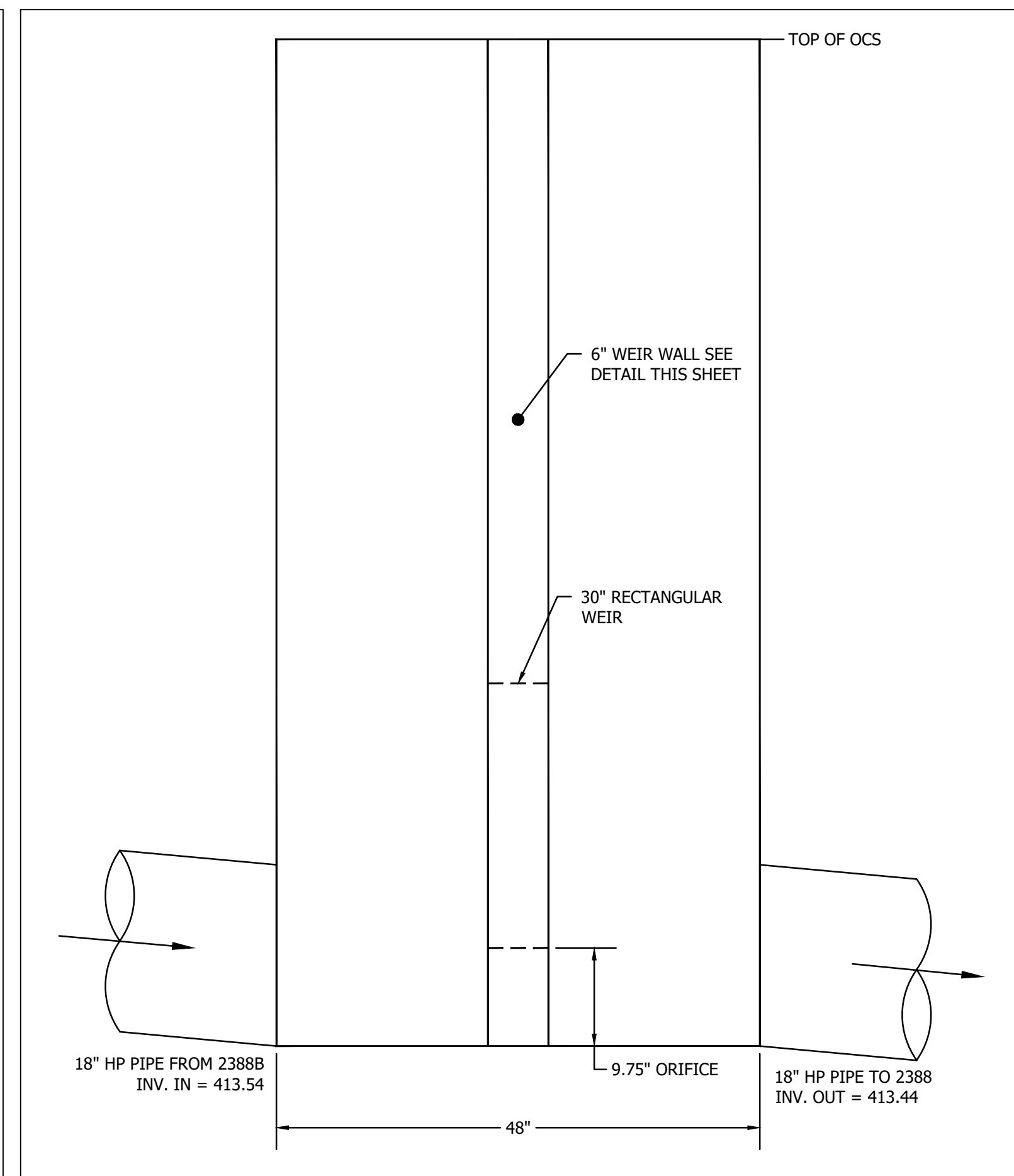
- Attachments:
1. As-built drawings
2. Activation Letter from manufacturer



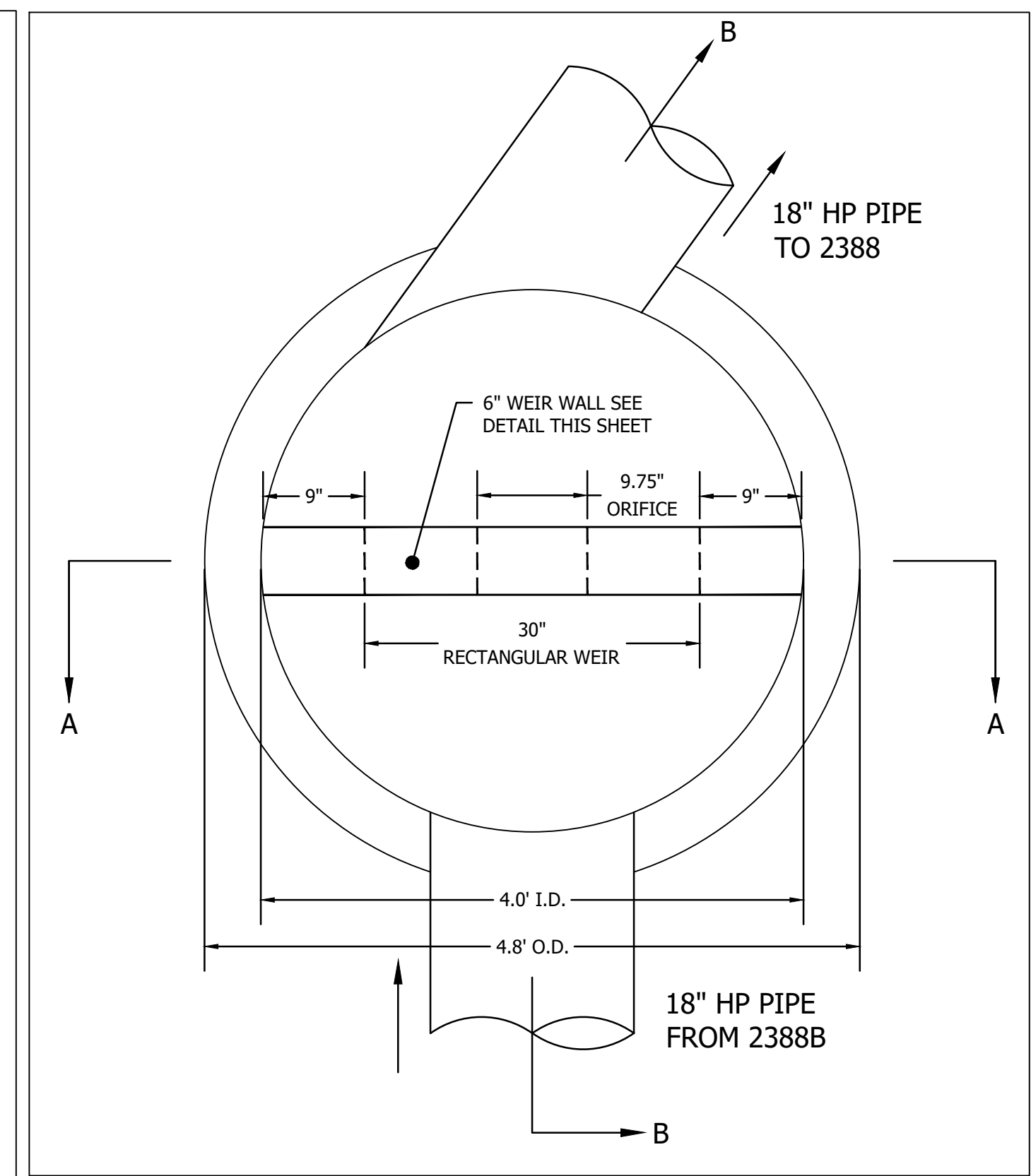
Proprietary BMP | November 2016



OUTLET CONTROL STRUCTURE (2388A) SECTION A-A

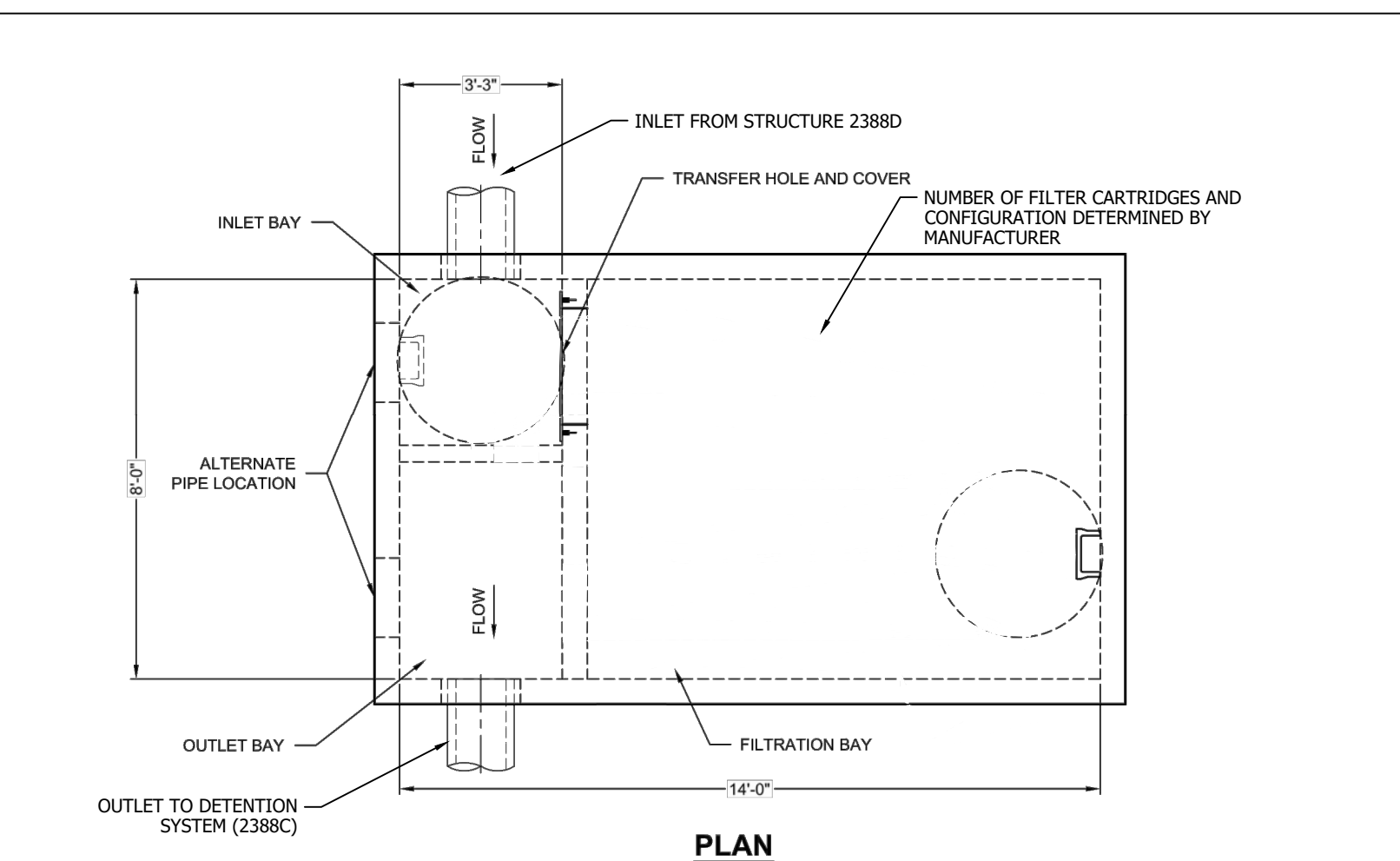


OUTLET CONTROL STRUCTURE (2388A) SECTION B-B

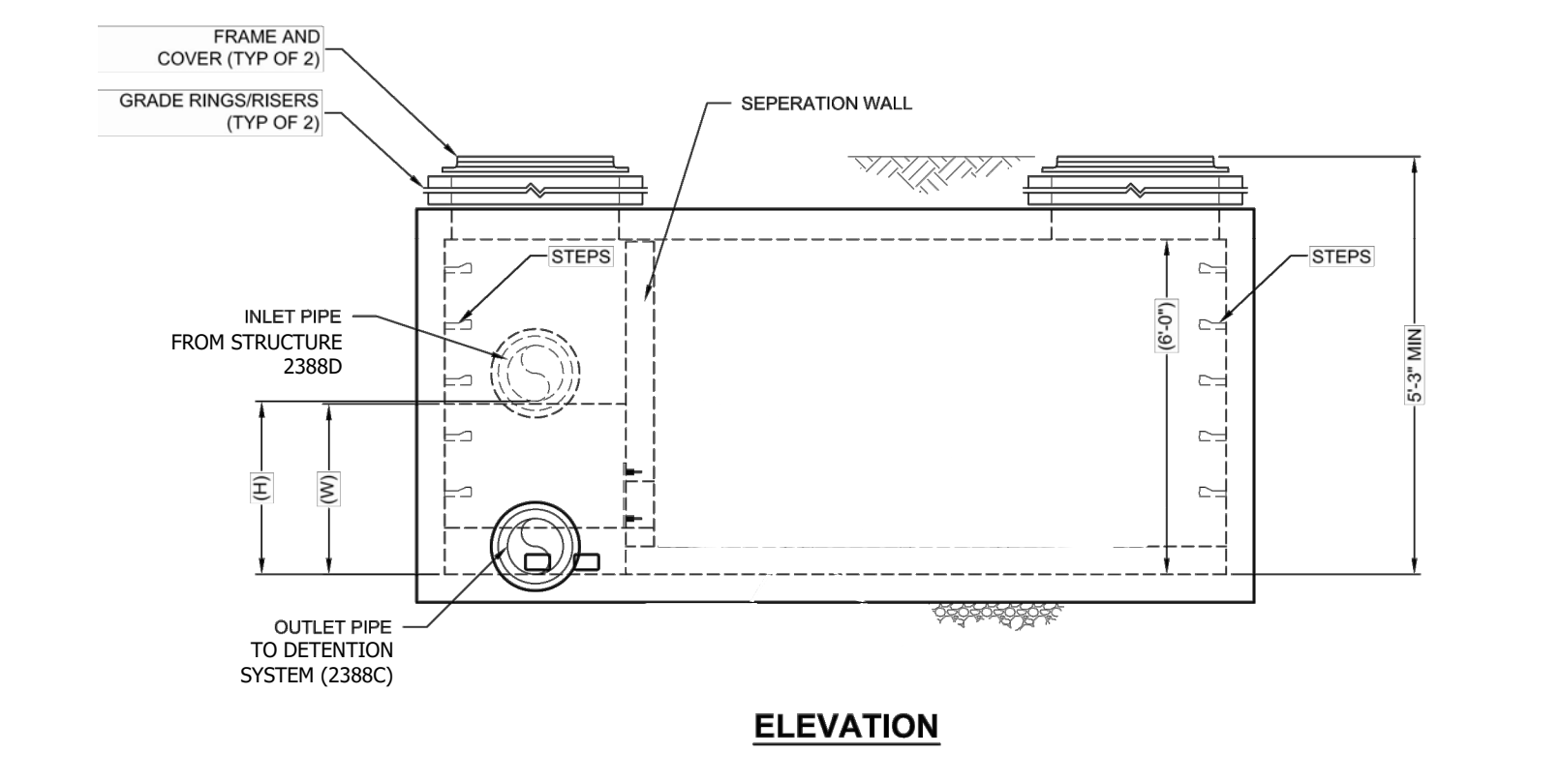


OUTLET CONTROL STRUCTURE (2388A) PLAN VIEW

SEE OUTLET CONTROL STRUCTURE (OCS) LOCATION ON SHEET C083.1
SEE OUTLET CONTROL STRUCTURE CALCULATIONS ON SHEET C085.2



PLAN



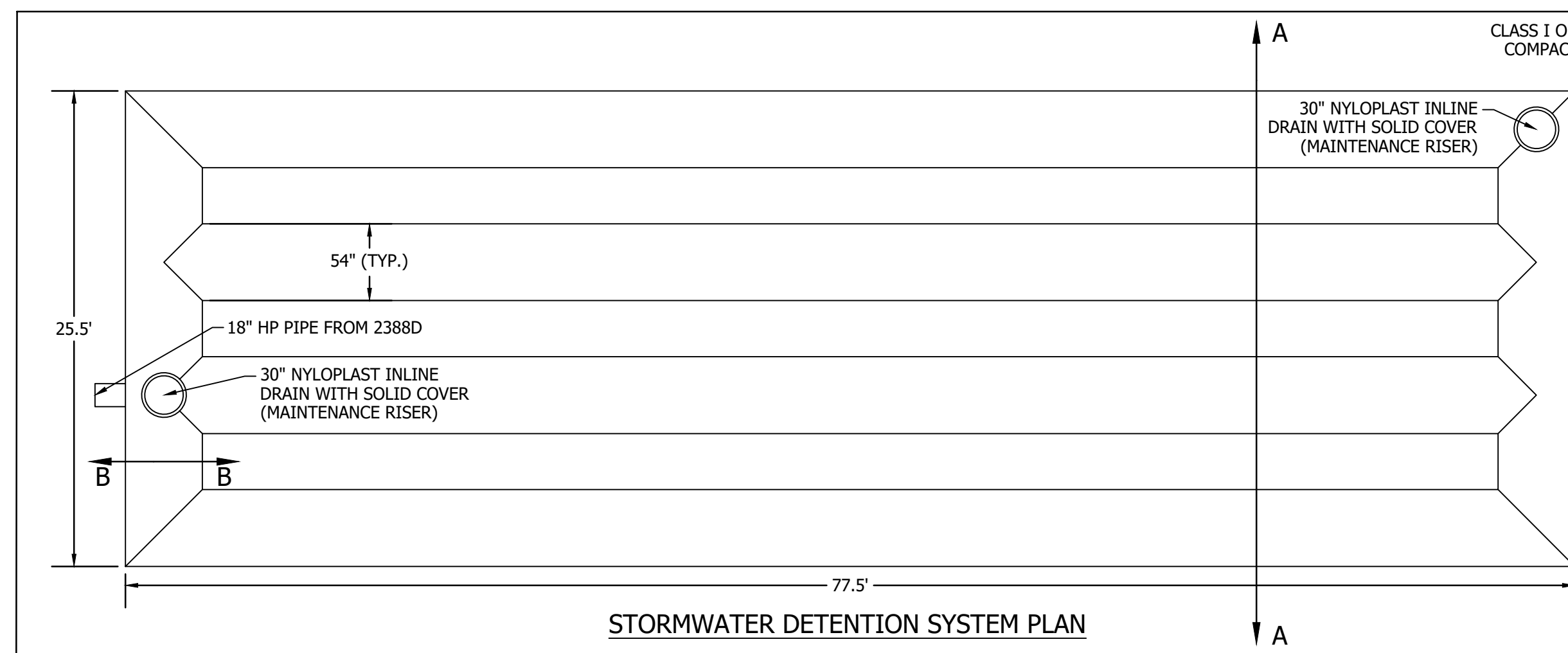
ELEVATION

MANUFACTURED FILTERING DEVICE DETAIL

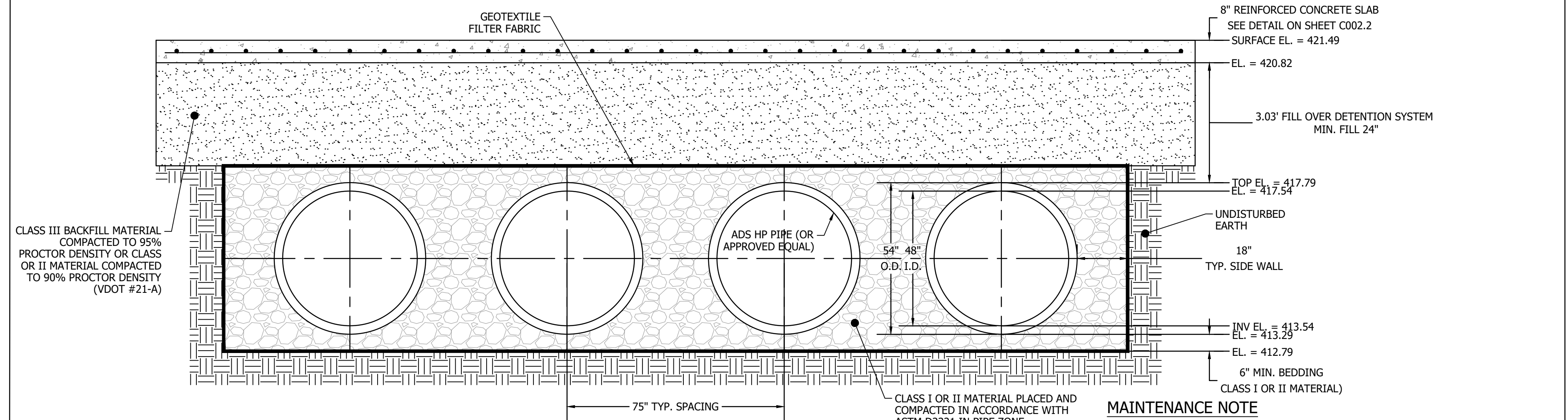
SELECTED MANUFACTURED FILTERING DEVICE SHALL BE CONTECH STORMFILTER OR APPROVED EQUAL, SHALL HAVE A 50% PHOSPHORUS REMOVAL EFFICIENCY, AND SHALL BE ON THE VIRGINIA STORMWATER BMP CLEARINGHOUSE APPROVED LIST OF FILTERING DEVICES AWARDED 50% TP REMOVAL EFFICIENCY.

MAINTENANCE NOTE

THE MAINTENANCE SCHEDULE AND LIST OF MAINTENANCE TASKS AND METHODS WILL DEPEND ON THE MANUFACTURER SELECTED BY THE CONTRACTOR. AT A MINIMUM, INSPECTION OF THE FILTERING DEVICE SHALL TAKE PLACE TWICE A YEAR. SEDIMENT ACCUMULATION OF 4" OR MORE AT THE BOTTOM OF THE VAULT SHOULD BE CLEANED. OTHER MAINTENANCE WORKS SUCH AS FILTER CLEANING AND/OR REPLACEMENT SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS.



STORMWATER DETENTION SYSTEM PLAN



STORMWATER DETENTION SYSTEM SECTION A-A

REQUIRED STORMWATER DETENTION VOLUME = 3902 CF (SEE C085.1 - SWM CALCULATIONS)
INSTALLED STORAGE VOLUME = 4,100 CF
FACILITY LENGTH = 77.5 FT
FACILITY WIDTH = 25.5 FT

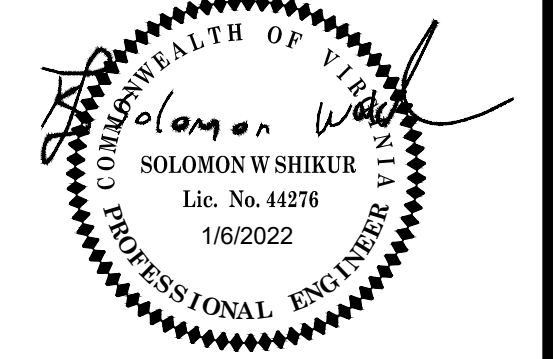
MAINTENANCE NOTE

THE MAINTENANCE SCHEDULE AND LIST OF MAINTENANCE TASKS AND METHODS WILL DEPEND ON THE MANUFACTURER SELECTED BY THE CONTRACTOR. AT A MINIMUM, INSPECTION OF THE UNDERGROUND DETENTION SYSTEM SHALL TAKE PLACE ONCE A YEAR, RECOMMENDED DURING A DRY SEASON. MAINTENANCE SHALL BE DONE THROUGH THE TWO MAINTENANCE RISERS. CLEANING SHOULD BE DONE TO MAINTAIN PROPER STORAGE AND FLOW. OTHER MAINTENANCE WORKS SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS.

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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SEAL



APPROVALS DATE

Table with columns for Approvals and Date, listing Amy Pflaum (01/18/22), Adam E. Kulawy (1/20/22), and others.

REVISIONS DATE

Table with columns for Revisions and Date, currently empty.

NORTHSIDE SALT STORAGE SITE
SLT1
SE CORNER OF OLD DOMINION DR & 26TH ST N
SWM NOTES AND DETAILS

DESIGNED: SEB
DRAWN: SEB
CHECKED: SWS

PLOTTED: JANUARY 6 2022

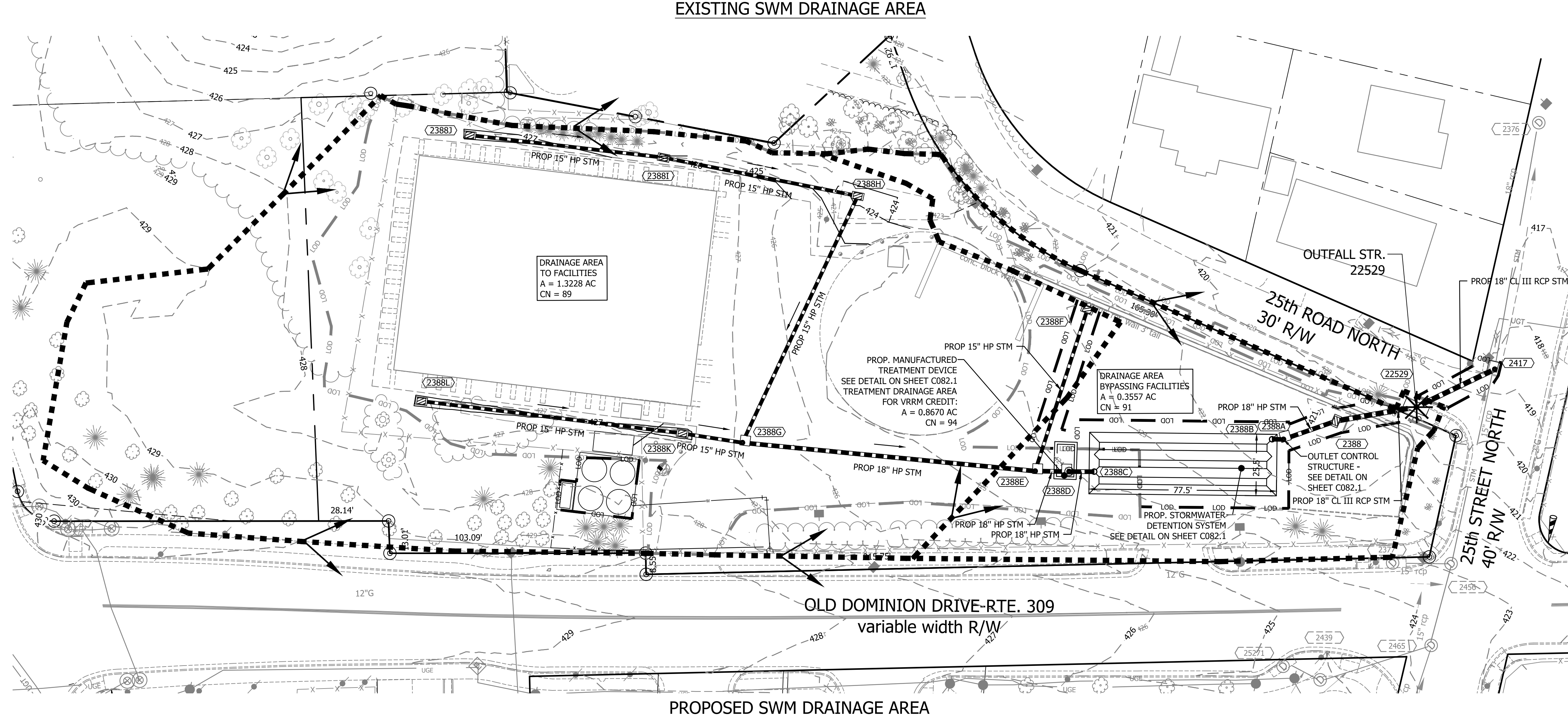
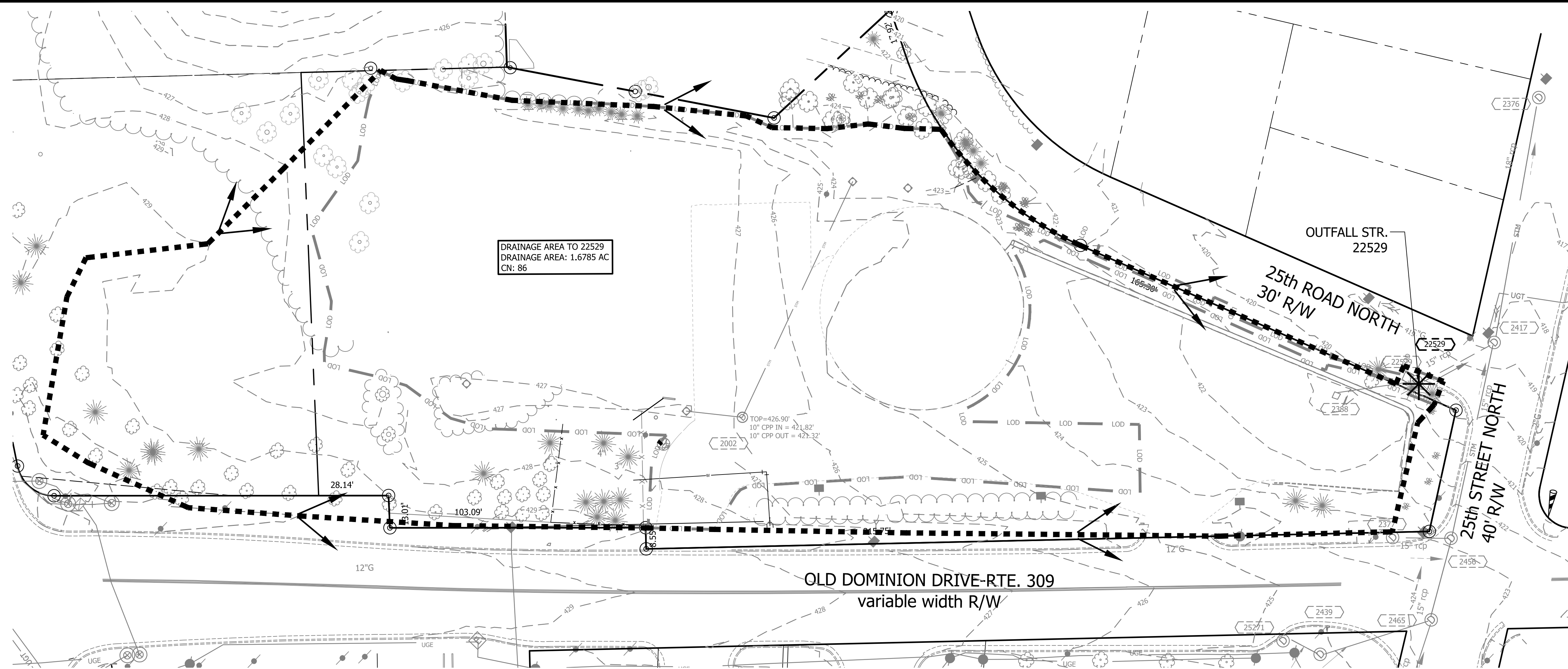
SCALE:

N/A

C082.1

REVISED ON 01/07/2022

FILENAME: SLT1-25A-SWM\_DIVIDES\_AND\_COMPS.DWG PATH: Q:\DATA\SLT1\DESIGN\CAD\ACTIVE PLOTTED BY: SBUCKLEY



**LIMITS OF DISTURBANCE LEGEND**

EXISTING LIMITS OF DISTURBANCE PER PROJECT #LDA18212 (SWM#18-0199). STORMWATER IMPROVEMENTS INCLUDED IN THIS PROJECT ARE DESIGNED ACCORDING TO PROJECT #LDA18212 LIMITS OF DISTURBANCE, IN ACCORDANCE WITH AN EXISTING PARTIAL EXCEPTION TO THE POST-CONSTRUCTION SWM REQUIREMENTS (SEE SHEET C002.1 FOR APPROVED PARTIAL EXCEPTION LETTER).

— LOD —

ADDITIONAL LIMITS OF DISTURBANCE FOR PROPOSED STORMWATER IMPROVEMENTS WHICH DID NOT OCCUR FROM PROJECT #LDA18212 - THE SUM OF EXISTING LIMITS OF DISTURBANCE FROM PROJECT #LDA18212 AND ADDITIONAL LIMITS OF DISTURBANCE ARE REFLECTED IN THE VRRM COMPUTATIONS FOUND ON SHEET C085.1.

— LOD —

**STORMWATER NARRATIVE**

THE SUBJECT PROPERTY IS LOCATED AT THE SOUTHEAST CORNER OF OLD DOMINION DRIVE AND 26TH STREET NORTH AND CLASSIFIES AS A REDEVELOPMENT PROJECT. THE SALT STORAGE FACILITY ON THIS SITE WAS BUILT IN 2019. THE SITE WAS GRANTED A PARTIAL EXCEPTION TO THE POST-CONSTRUCTION STORMWATER MANAGEMENT REQUIREMENTS OF ARLINGTON COUNTY'S STORMWATER MANAGEMENT ORDINANCE - SECTION 60-11A. THE EXCEPTION WAS BASED ON SECTION 60-11.d OF THE ORDINANCE AND WAS GRANTED FOR FIVE YEARS. THIS PLAN PROPOSES STORMWATER MANAGEMENT / BMP IN ORDER TO MAKE THE SITE COMPLIANT WITH STORMWATER MANAGEMENT REQUIREMENTS BEFORE THE EXCEPTION EXPIRES IN OCTOBER 2023. THE EXCEPTION LETTER IS ATTACHED ON SHEET C002.1.

THE STORMWATER MANAGEMENT COMPUTATIONS ARE BASED ON THE LIMITS OF DISTURBANCE CREATED DURING THE INSTALLATION OF THE SALT STORAGE FACILITY AND IMPERVIOUS AREA CREATED BECAUSE OF IT, AS WELL AS THE ADDITIONAL DISTURBANCE TO INSTALL THE SWM / BMP FACILITIES PROPOSED WITH THIS PLAN. THE TOTAL LIMITS OF DISTURBANCE IS 0.9868 ACRES, WHERE THE EXISTING IMPERVIOUS AREA (IMPERVIOUS AREA IN THE PRE-EXISTING CONDITIONS - BEFORE INSTALLATION OF THE SALT STORAGE FACILITY IN 2019) IS 0.4345 ACRES AND THE PROPOSED IMPERVIOUS AREA IS 0.7518 ACRES, RESULTING IN AN INCREASE OF IMPERVIOUS AREA BY 0.3173 ACRES. THERE IS NO NEW IMPERVIOUS AREA PROPOSED WITH THIS PLAN TO INSTALL THE SWM / BMP.

THE OUTFALL POINT IS DIRECTLY DOWNSTREAM FROM THE LIMITS OF DISTURBANCE, LOCATED AT YARD INLET #2417.

**WATER QUALITY (9VAC25-870-63):**  
THE WATER QUALITY REQUIREMENT OF THE SITE IS EVALUATED BASED ON 9VAC25-870-63A.2. COMPLIANCE WITH THE SUBJECT SECTION IS DETERMINED IN ACCORDANCE WITH 9VAC25-970-65 BY MAKING USE OF THE VA RUNOFF REDUCTION METHOD REDEVELOPMENT COMPLIANCE SPREADSHEET AS SHOWN ON SHEET C085.1. THE POST-DEVELOPMENT TP LOAD REDUCTION REQUIRED FOR THE SUBJECT PROPERTY IS 0.6649 LB/YR. A MANUFACTURED TREATMENT DEVICE IS PROPOSED TO TREAT 0.8670 ACRES, WHERE THE CALCULATIONS DEMONSTRATE THAT THIS BMP WILL SATISFY THE TOTAL POLLUTANT REDUCTION REQUIREMENT OF THE SITE.

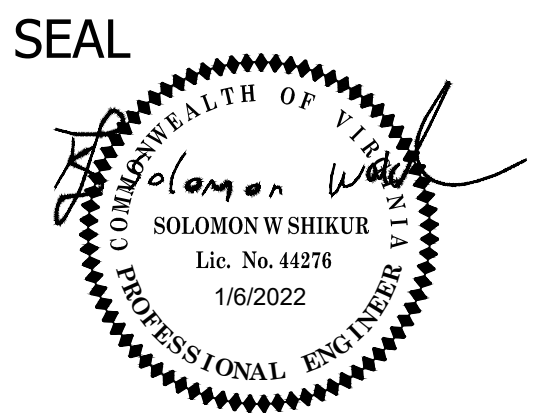
PER THE "USE OF STRUCTURAL STORMWATER TREATMENT SYSTEMS" MEMO, ISSUED BY ARLINGTON COUNTY STORMWATER MANAGEMENT AND REVISED ON MARCH 30, 2018, THE USE OF A MANUFACTURED TREATMENT DEVICE TO TREAT ROOF AND TURF AREAS IS NOT PERMITTED. AN EXCEPTION IS REQUESTED FOR THIS PROJECT, SWM #18-0199. THE MANUFACTURED TREATMENT DEVICE IS LOCATED DOWNSTREAM OF THE INLETS WHICH COLLECT THE SURFACE RUNOFF FROM THE ASPHALT PARKING LOT FOR THE EXISTING SALT STORAGE FACILITY. ROOF RUNOFF IS ADDITIONAL TREATED AREA, AND IS COLLECTED IN AREA DRAINS AND IS CONVEYED THROUGH THE PROPOSED STORM PIPE NETWORK RATHER THAN DIRECTLY PIPING THE STORMWATER TO THE MANUFACTURED TREATMENT DEVICE. ADDITIONALLY, DUE TO THE EXISTING SITE PHYSICAL CONSTRAINTS AND LOCATION OF THE EXISTING STORM PIPE NETWORK WHERE THE PROPOSED STORM PIPE NETWORK IS CONNECTING TO, UTILIZATION OF ANY BMP WITH RUNOFF REDUCTION IS NOT FEASIBLE. A MANUFACTURED TREATMENT DEVICE IS THE OPTIMAL BMP FOR TREATING THE REQUIRED WATER QUALITY FOR THIS SITE.

**WATER QUANTITY (9VAC25-870-66):**  
COMPLIANCE WITH CHANNEL & FLOOD PROTECTION REQUIREMENTS OF THE SITE IS DEMONSTRATED IN ACCORDANCE WITH 9VAC25-870-66b1a AND b OF THE VSMF. THE CHANNEL AND FLOOD PROTECTION STORAGE VOLUMES ESTIMATED BY THE WATER QUANTITY ENERGY BALANCE WORKSHEET (SHEET C085.1) ARE PROVIDED IN THE ON-SITE UNDERGROUND DETENTION CHAMBER FACILITY. STORAGE VOLUME REQUIREMENTS AND CALCULATIONS HAVE BEEN PROVIDED ON THIS SHEET (SEE STORMWATER DETENTION CHAMBER DETAIL) AND SHEET C085.1.

PRE AND POST DEVELOPMENT RUNOFF CALCULATIONS ARE PERFORMED USING THE TR-55 APPLICATION FOR THE 1-YEAR STORM AND 10-YEAR STORM FOR THE 0.9868 ACRES OF DISTURBANCE. AS DEMONSTRATED WITH THE ROUTING COMPUTATION ON SHEET C085.2 THE UNDERGROUND DETENTION CHAMBER FACILITY HAS BEEN DESIGNED SUCH THAT THE CHANNEL & FLOOD PROTECTION REQUIREMENTS OF THE SITE ARE SATISFIED.

SEE STORMWATER DETENTION CALCULATIONS ON SHEET C085.2

NOT FOR CONSTRUCTION THIS SHEET FOR CALCULATION PURPOSES ONLY



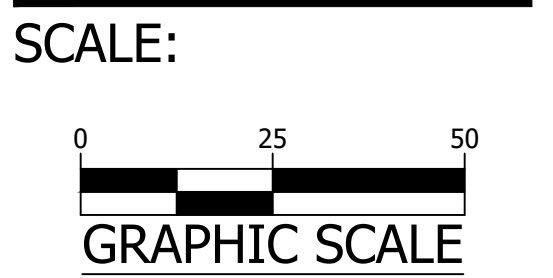
APPROVALS	DATE
<i>Amy Pflaum</i> QUALITY CONTROL ENGINEER	01/18/22
<i>Adam E. Kulaury</i> CONSTRUCTION MANAGEMENT SUPERVISOR	1/20/22
<i>[Signature]</i> WATER, SEWER, STREETS BUREAU CHIEF	1.21.2022
<i>Dannia M. Leach</i> TRANSPORTATION DIRECTOR	01/27/22
<i>John M. [Signature]</i> PROJECT MANAGER	1/27/22

REVISIONS	DATE

NORTHSIDE SALT STORAGE SITE  
SLT1  
SE CORNER OF OLD DOMINION DR & 26TH ST N  
SWM PLAN

DESIGNED: SEB  
DRAWN: SEB  
CHECKED: SWS

PLOTTED: JANUARY 6 2022





Stormwater Management Facility Information - Revised 3/19/2019. Table with columns: Facility Type, Description, Location, LDA Permit #, Project SWM #, Building Permit #, Facility ID, BMP downstream of another BMP, Upstream (Primary) BMP, Chesapeake Bay Segment, Watershed, HUC6, Soils, Runoff Treated (in), Volume Treated (ft³), Treated Area (acres), Forest Area (acres), Turf Area (acres), Impervious Area (acres), RPC, Phosphorus Efficiency (%), Nitrogen Efficiency (%), Sediment Efficiency (%), TP load removed (lbs), TN load removed (lbs).

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

2011 BMP Standards and Specifications / 2013 Draft BMP Standards and Specifications. Project Name: Northern Salt Storage Site, Date: 9/30/2021. Linear Development Project? No.

Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area (acres) -> 0.9868. Maximum reduction required: 10%. The site's net increase in impervious cover (acres) is: 0.3173. Post-Development TP Load Reduction for Site (lb/yr): 0.6649.

Check: BMP Design Specifications List: 2013 Draft Stds & Specs. Linear project? No. Land cover areas entered correctly? ✓. Total disturbed area entered? ✓.

Pre-ReDevelopment Land Cover (acres). Table with columns: A Soils, B Soils, C Soils, D Soils, Totals. Forest/Open Space (acres) -- undisturbed forest/open space: 0.0000. Managed Turf (acres) -- disturbed, graded for yards or other turf to be: 0.5523. Impervious Cover (acres): 0.4345. Total: 0.9868.

Post-Development Land Cover (acres). Table with columns: A Soils, B Soils, C Soils, D Soils, Totals. Forest/Open Space (acres) -- undisturbed, protected forest/open space or reforested: 0.0000. Managed Turf (acres) -- disturbed, graded for yards or other turf to be: 0.2350. Impervious Cover (acres): 0.7518. Total: 0.9868.

Drainage Area A

Drainage Area A Land Cover (acres). Table with columns: A Soils, B Soils, C Soils, D Soils, Totals, Land Cover Rv. Forest/Open Space (acres): 0.0000. Managed Turf (acres): 0.2500. Impervious Cover (acres): 0.9500. Total: 0.8670.

CLEAR BMP AREAS

Total Phosphorus Available for Removal in D.A. A (lb/yr) 1.5460. Post Development Treatment Volume in D.A. A (ft³) 2,460.5592.

Stormwater Best Management Practices (RR = Runoff Reduction)

Table with columns: Practice, Runoff Reduction Credit (%), Managed Turf Credit Area (acres), Impervious Cover Credit Area (acres), Volume from Upstream Practice (ft³), Runoff Reduction (ft³), Remaining Runoff Volume (ft³), Total BMP Treatment Volume (ft³), Phosphorus Removal Efficiency (%), Phosphorus Load from Upstream Practices (lb), Untreated Phosphorus Load to Practice (lb), Phosphorus Removed By Practice (lb), Remaining Phosphorus Load (lb), Downstream Practice to be Employed.

Site Results (Water Quality Compliance)

Area Checks table. Columns: D.A. A, D.A. B, D.A. C, D.A. D, D.A. E, AREA CHECK. FOREST/OPEN SPACE (ac): OK. IMPERVIOUS COVER (ac): OK. IMPERVIOUS COVER TREATED (ac): OK. MANAGED TURF AREA (ac): OK. MANAGED TURF AREA TREATED (ac): OK. AREA CHECK: OK.

Site Treatment Volume (ft³) 2,805.8448

Runoff Reduction Volume and TP By Drainage Area

Table with columns: D.A. A, D.A. B, D.A. C, D.A. D, D.A. E, TOTAL. RUNOFF REDUCTION VOLUME ACHIEVED (ft³): 0.0000. TP LOAD AVAILABLE FOR REMOVAL (lb/yr): 1.5460. TP LOAD REDUCTION ACHIEVED (lb/yr): 0.7721. TP LOAD REMAINING (lb/yr): 0.7739.

Total Phosphorus

FINAL POST-DEVELOPMENT TP LOAD (lb/yr) 1.7629. TP LOAD REDUCTION REQUIRED (lb/yr) 0.6649. TP LOAD REDUCTION ACHIEVED (lb/yr) 0.7721. TP LOAD REMAINING (lb/yr) 0.9908. REMAINING TP LOAD REDUCTION REQUIRED (lb/yr): 0.0000. \*\* TARGET TP REDUCTION EXCEEDED BY 0.1072 LB/YEAR \*\*

Total Nitrogen (For Information Purposes)

POST-DEVELOPMENT LOAD (lb/yr) 12.6116. NITROGEN LOAD REDUCTION ACHIEVED (lb/yr) 0.0000. REMAINING POST-DEVELOPMENT NITROGEN LOAD (lb/yr) 12.6116.

Storm Data Source: User-provided custom storm data. Rainfall Distribution Type: Type II. Dimensionless Unit Hydrograph: <standard>. Sub-Area or Reach Identifier (cfs) Peak Flow by Rainfall Return Period (cfs). Sub-Area Summary Table. Sub-Area Land Use and Curve Number Details.

SWM Water Quantity Energy Balance Worksheet

Table with columns: SITE AREA (acre), 1-year, 10-year. PRE, POST (adjusted). P, CN, S=1000/CN-10, 0.2S, RV=(P-0.2S)/(P-0.2S)+S.

QPost Development <= I.F.\* (Qpre-development\* RVpre-development)/RVDeveloped + Qoffsite

I.F. 0.9. CHANNEL PROTECTION table. Qpre-development, QPost Development, RVPost Development (with runoff reduction), Qoffsite, Qallowable.

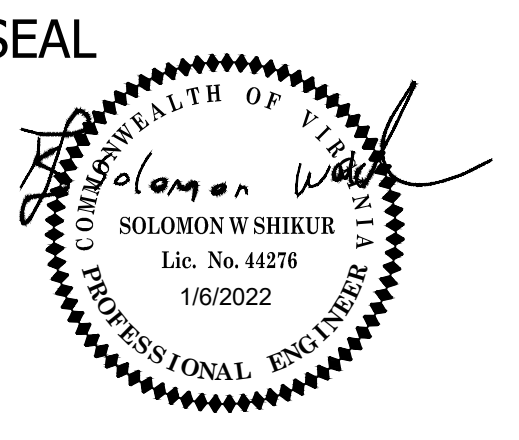
FLOOD CONTROL table. Qpre-development, QPost Development, RVPost Development (with runoff reduction), Qoffsite, Qallowable.

Runoff Volume and Curve Number Calculations. Enter design storm rainfall depths (in): 1-year storm 2.62, 2-year storm 3.17, 10-year storm 4.87. Drainage Area Curve Numbers and Runoff Depths\*. Curve numbers (CN, CNadj) and runoff depths (RV Developed) are computed with and without reduction practices.

Site Information - Revised 9/19/2017. Table with columns: Project SWM #, LDA Permit #, Disturbed Area (acres), % Pre-Impervious, % Post-Impervious, Pre-Development TP load (lb/yr), Post-Development TP load (lb/yr), TP load reduction achieved (lb/yr), Pre-Development TN load (lb/yr), Post-Development TN load (lb/yr), TN load reduction achieved (lb/yr), Total Site Area (acres), Pre-Forest Area (acres), Pre-Turf Area (acres), Pre-Impervious Area (acres), Post-Forest Area (acres), Post-Turf Area (acres), Post-Impervious Area (acres), Pre-Runoff Volume, Post-Runoff Volume, Runoff Reduction Achieved, Site Latitude (Decimal Degrees), Site Longitude (Decimal Degrees), Anticipated Start Date.

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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APPROVALS DATE. Amy Pflaum 01/18/22. Adam E. Kubany 1/20/22. 1.21.2022. Dannie M. Leach 01/27/22. John M. ... 1/27/22.

REVISIONS DATE. Table with columns for revision number and date.

NORTHSIDE SALT STORAGE SITE. SE CORNER OF OLD DOMINION DR & 26TH ST N.

SWM CALCULATIONS

DESIGNED: SEB. DRAWN: SEB. CHECKED: SWS.

PLOTTED: JANUARY 6 2022

SCALE: N/A

PONDPACK REPORT SUMMARY - PEAK FLOWS. Catchments Summary, Node Summary, Pond Summary. Tables showing return event, hydrograph volume, time to peak, and peak flow for various scenarios.

\* POST-DEVELOPMENT PEAK FLOW FOR 1-YEAR STORM: 2.06CFS = 2.06CFS (ALLOWABLE) (SEE ENERGY BALANCE EQUATION ON SHEET C085.1, CHANNEL PROTECTION)
\*\* POST-DEVELOPMENT PEAK FLOW FOR 10-YEAR STORM: 4.48CFS = 4.48CFS (ALLOWABLE) (SEE ENERGY BALANCE EQUATION ON SHEET C085.1, FLOOD CONTROL)

SLT1 Pondpack report. Subsection: Unit Hydrograph Summary. Label: EX. AREA. Scenario: 1 year. Storm event, return event, duration, depth, time of concentration, area, computational time, peak flow, output increment, time to flow, cumulative runoff, drainage area, SCS CN, maximum retention, cumulative runoff, cumulative runoff depth, runoff volume, SCS unit hydrograph parameters.

SLT1 Pondpack report. Subsection: Unit Hydrograph Summary. Label: EX. AREA. Scenario: 10 year. Storm event, return event, duration, depth, time of concentration, area, computational time, peak flow, output increment, time to flow, cumulative runoff, drainage area, SCS CN, maximum retention, cumulative runoff, cumulative runoff depth, runoff volume, SCS unit hydrograph parameters.

SLT1 Pondpack report. Subsection: Unit Hydrograph Summary. Label: PROP. AREA BYPASS FAC. Scenario: 1 year. Storm event, return event, duration, depth, time of concentration, area, computational time, peak flow, output increment, time to flow, cumulative runoff, drainage area, SCS CN, maximum retention, cumulative runoff, cumulative runoff depth, runoff volume, SCS unit hydrograph parameters.

SLT1 Pondpack report. Subsection: Unit Hydrograph Summary. Label: PROP. AREA BYPASS FAC. Scenario: 10 year. Storm event, return event, duration, depth, time of concentration, area, computational time, peak flow, output increment, time to flow, cumulative runoff, drainage area, SCS CN, maximum retention, cumulative runoff, cumulative runoff depth, runoff volume, SCS unit hydrograph parameters.

SLT1 Pondpack report. Subsection: Unit Hydrograph Summary. Label: PROP. AREA TO FAC. Scenario: 1 year. Storm event, return event, duration, depth, time of concentration, area, computational time, peak flow, output increment, time to flow, cumulative runoff, drainage area, SCS CN, maximum retention, cumulative runoff, cumulative runoff depth, runoff volume, SCS unit hydrograph parameters.

SLT1 Pondpack report. Subsection: Unit Hydrograph Summary. Label: PROP. AREA TO FAC. Scenario: 10 year. Storm event, return event, duration, depth, time of concentration, area, computational time, peak flow, output increment, time to flow, cumulative runoff, drainage area, SCS CN, maximum retention, cumulative runoff, cumulative runoff depth, runoff volume, SCS unit hydrograph parameters.

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



APPROVALS DATE Amy Plouffe 01/18/22 Quality Control Engineer Adam E. Kulaury 1/20/22 Construction Management Supervisor 1.21.2022 WATER, SEWER, STREETS BUREAU CHIEF Danna M. Leach 01/27/22 TRANSPORTATION DIRECTOR PROJECT MANAGER 1/27/22

REVISIONS DATE

Table with 2 columns: REVISIONS and DATE. Multiple rows for revisions.

NORTHSIDE SALT STORAGE SITE SLT1 SE CORNER OF OLD DOMINION DR & 26TH ST N STORMWATER DETENTION CALCULATIONS

DESIGNED: SEB DRAWN: SEB CHECKED: SWS

PLOTTED: JANUARY 6 2022

SCALE:

N/A

C085.2

SLT1 Pondpack report. Subsection: Time vs. Elevation. Label: UG DET. (OUT). Scenario: 1 year. Time vs. Elevation (ft). Output Time increment = 0.050 hours. Time on left represents time for first valve in each row. Table with columns: Time (hours), Elevation (ft), Volume (ft^3).

SLT1 Pondpack report. Subsection: Time vs. Elevation. Label: UG DET. (OUT). Scenario: 10 year. Time vs. Elevation (ft). Output Time increment = 0.050 hours. Time on left represents time for first valve in each row. Table with columns: Time (hours), Elevation (ft), Volume (ft^3).

SLT1 Pondpack report. Subsection: Time vs. Volume. Label: UG DET. Scenario: 1 year. Time on left represents time for first valve in each row. Table with columns: Time (hours), Volume (ft^3), Elevation (ft).

SLT1 Pondpack report. Subsection: Time vs. Volume. Label: UG DET. Scenario: 10 year. Time on left represents time for first valve in each row. Table with columns: Time (hours), Volume (ft^3), Elevation (ft).

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SLT1 Pondpack report. Subsection: Time vs. Volume. Label: UG DET. Scenario: 10 year. Time on left represents time for first valve in each row. Table with columns: Time (hours), Volume (ft^3), Elevation (ft).

OUTLET CONTROL STRUCTURE SUMMARY. Structure ID: Riser - 1. Structure Type: Culvert-Circular. Number of Barrels: 1. Diameter: 18.0 in. Length: 24.50 ft. Slope (Computed Barrel): 24.50 ft. Slope (Computed): 0.018 ft/ft.

Label: Composite Outlet Structure - 1. Scenario: 1 year. Composite Outflow Summary. Water Surface Elevation (ft), Flow (ft^3/s), Tailwater Elevation (ft), Convergence Error (ft). Table with 4 columns.

Label: Composite Outlet Structure - 1. Scenario: 10 year. Composite Outflow Summary. Water Surface Elevation (ft), Flow (ft^3/s), Tailwater Elevation (ft), Convergence Error (ft). Table with 4 columns.

GENERAL MOT NOTES:

- 1. PROJECT IS A "TYPE A" TMP PROJECT. THIS PROJECT SUPPORTS FOR THE IMPROVEMENT OF THE NORTHSIDE SALT STORAGE SITE.
2. THE DESIGN FOR THE NORTHSIDE SALT STORAGE PROJECT INCLUDES STORMWATER IMPROVEMENTS, SUCH AS QUALITY AND QUANTITY DESIGN, AND A PROPOSED STORM PIPE NETWORK WHICH WILL CONNECT TO AN EXISTING STORM PIPE NETWORK.
3. THE WORKING HOURS WITHIN ARLINGTON COUNTY RIGHT-OF-WAY ARE AS FOLLOWS:
MON. TO FRI. 9:00 AM TO 4:00 PM
SATURDAY \*Not Allowed
SUNDAY \*Not Allowed
4. BEFORE AND AFTER WORKING HOURS, ALL TRAVEL LANES SHALL BE OPENED TO THE MOTORISTS.
5. NO LANE CLOSURES WILL BE ALLOWED FROM NOON ON THE DAY BEFORE A HOLIDAY UNTIL NOON ON THE WORKDAY FOLLOWING THE HOLIDAY. HOLIDAYS INCLUDE ALL STATE AND FEDERAL HOLIDAYS.
6. MAINTENANCE OF TRAFFIC (MOT) PLAN WHICH INCLUDES THE SEQUENCE OF CONSTRUCTION (SOC) WAS REVIEWED AND APPROVED BY THE ARLINGTON COUNTY TRANSPORTATION ENGINEERING AND OPERATION (TE&O) BUREAU.
7. THE CONTRACTOR SHALL COORDINATE WITH ARLINGTON COUNTY TRANSIT BUREAU (703-228-3049) AT LEAST 4 WEEKS PRIOR TO COMMENCEMENT OF WORK FOR APPROVAL, IF TRANSIT IS AFFECTED.
8. THE CONTRACTOR SHALL RETAIN PEDESTRIAN ACCESS TO THE BUS STOPS LOCATED WITHIN THE CONSTRUCTION ZONE FOR THE DURATION OF THE PROJECT.
9. THE CONTRACTOR SHALL:
A. DESIGNATE A PERSON ASSIGNED TO THE PROJECT WHO WILL HAVE THE PRIMARY RESPONSIBILITY, WITH SUFFICIENT AUTHORITY, FOR IMPLEMENTING THE TMP/MOT/SOC AND OTHER SAFETY AND MOBILITY ASPECTS OF THE PERMIT WORK. THIS PERSON SHALL COORDINATE WITH THE ARLINGTON COUNTY CONSTRUCTION MANAGER FOR THE DURATION OF THE PROJECT.
B. ENSURE THAT PERSONNEL ASSIGNED TO THE PROJECT ARE TRAINED IN TRAFFIC CONTROL TO A LEVEL COMMENSURATE WITH THEIR RESPONSIBILITIES IN ACCORDANCE WITH VDOT'S WORK ZONE TRAFFIC CONTROL TRAINING GUIDELINES.
C. PERFORM REVIEWS OF THE CONSTRUCTION AREA TO ENSURE COMPLIANCE WITH CONTRACT DOCUMENTS AT REGULARLY SCHEDULED INTERVALS AT THE DIRECTION OF THE ENGINEER. CONTRACTORS SHALL MAINTAIN AN APPROVED COPY OF THE TEMPORARY TRAFFIC CONTROL PLAN AT THE WORK SITE AT ALL TIMES.
11. THIS TMP/MOT/SOC PLAN IS INTENDED AS A GUIDE. IT IS NOT TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH PHASE, BUT ONLY TO SHOW THE GENERAL HANDLING OF EXISTING TRAFFIC. IF THE CONTRACTOR IS TO DEVIATE FROM THE APPROVED TMP, A NEW OR REVISED TMP MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
12. ALL AREAS EXCAVATED BELOW THE EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACKFILLED UP TO EXISTING PAVEMENT OR NEWLY CONSTRUCTED PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC.
13. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL ADD ANY ADDITIONAL TEMPORARY MEASURES NECESSARY TO FACILITATE PROPER, POSITIVE DRAINAGE FOR THE DURATION OF CONSTRUCTION.
14. EACH PHASE OF CONSTRUCTION SHALL BE COMPLETED PRIOR TO THE START OF THE NEXT PHASE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

FIRE DEPARTMENT NOTES:

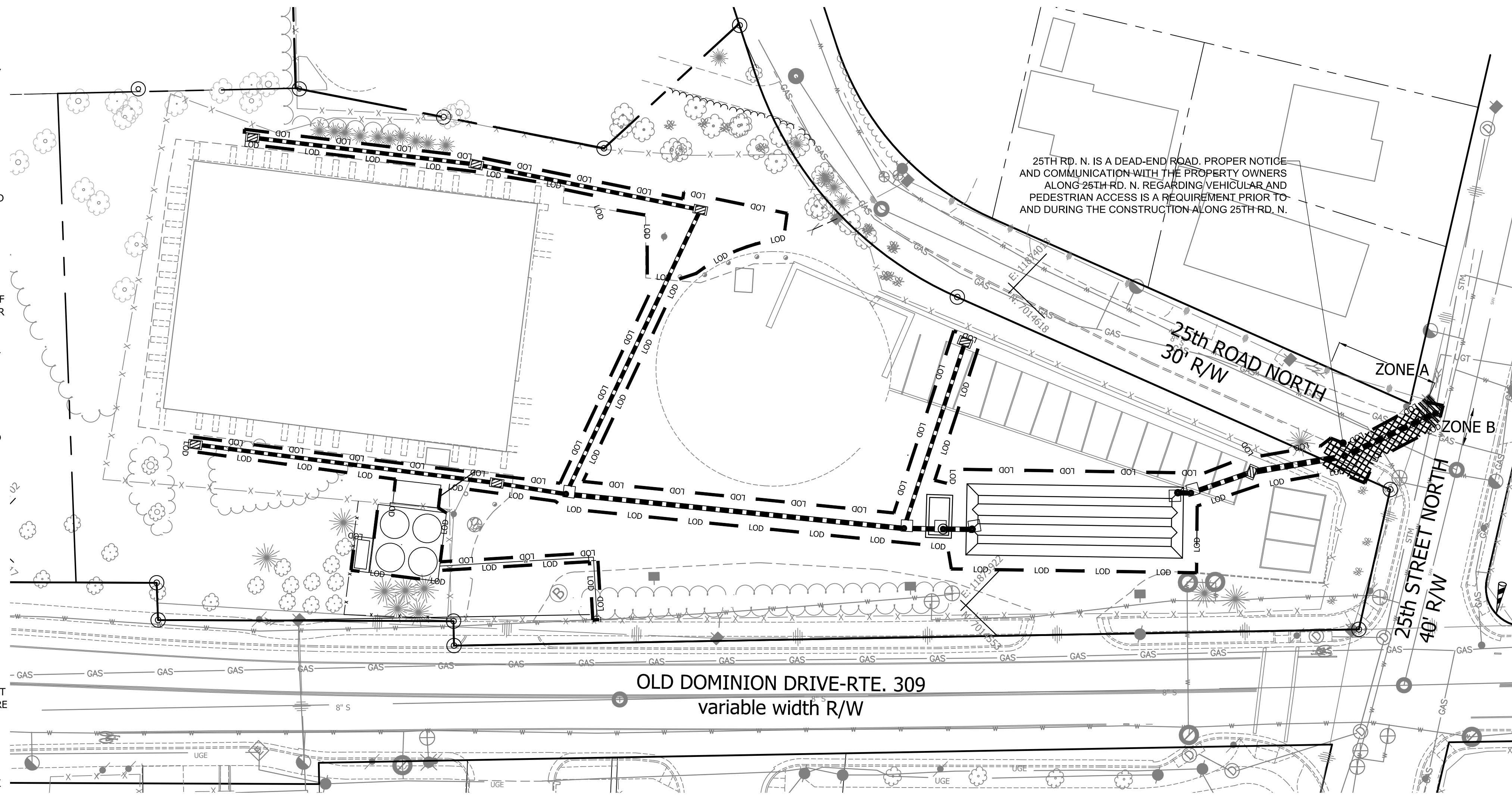
- 1. ALL EXISTING FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MAINTAINED UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES IN ACCORDANCE WITH SECTIONS 508.5.4 AND 508.5.5 OF THE ARLINGTON COUNTY FIRE PREVENTION CODE.
2. ACCESS TO BUILDINGS FOR FIREFIGHTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING 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.
3. 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.

GENERAL SEQUENCE OF CONSTRUCTION:

- 1. TRAFFIC CONTROL DEVICES AND SAFETY MEASURES SHALL COMPLY WITH THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, VDOT'S GUIDELINES FOR TEMPORARY TRAFFIC CONTROL, FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ARLINGTON COUNTY STANDARDS, THE TRAFFIC CONTROL PLANS INCLUDED IN THE CONSTRUCTION DRAWINGS, AND/OR AS DIRECTED BY THE PROJECT OFFICER.
2. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE WHICH INDICATES START AND FINISH DATES FOR EACH SEGMENT OF THE WORK. THE SCHEDULE SHALL INDICATE THE DURATION OF ALL LANE OR SHOULDER CLOSURES. THE CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF PROCEEDING TO THE NEXT WORK SEGMENT.
3. THE CONTRACTOR SHALL NOTIFY THE PROJECT OFFICER OF PARKING RESTRICTION NEEDS A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORK FOR EACH SEGMENT. COUNTY PROJECT OFFICER SHALL RESTRICT PARKING BY CONTACTING DES - PERMITTING SECTION, 703-228-4798.
4. PORTABLE VARIABLE MESSAGE SIGNS WITH CLOSURE INFORMATION MUST BE INSTALLED AHEAD OF WORK AREA 3 WEEKS PRIOR TO CLOSURE.
5. DURING CONSTRUCTION, THE CONTRACTOR SHALL EITHER MAINTAIN APPROPRIATE SIGHT DISTANCE TO ALL TRAFFIC SIGNS OR PROVIDE FOR TEMPORARY SIGNAGE OR FLAGGERS TO GUIDE TRAFFIC THROUGH WORK ZONES.
6. THE CONTRACTOR SHALL MINIMIZE THE DURATION OF ANY BLOCKAGE TO PRIVATE ENTRANCES AND DRIVEWAYS. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF DRIVEWAY CLOSURE FOR APPROVAL BY THE PROJECT OFFICER. THE PROJECT OFFICER SHALL BE NOTIFIED A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF SUCH ACTIVITIES. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE TEMPORARY CLOSURE OF ACCESS TO THE PROPERTY. THE CONTRACTOR SHALL MAKE ALL PRIVATE ENTRANCES AND DRIVEWAYS ACCESSIBLE AT THE CONCLUSION OF EACH WORKDAY.
7. ANY EXCAVATIONS WHICH ARE SPECIFICALLY APPROVED BY THE PROJECT OFFICER TO REMAIN OPEN PAST NORMAL WORKING HOURS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROTECTED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND AS APPROVED BY THE PROJECT OFFICER.
8. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, INCLUDING ACCESS TO BUS STOP SHELTERS, UNLESS OTHERWISE APPROVED IN THE PLANS.
9. PEDESTRIAN TRAFFIC SHALL BE SEPARATED FROM WORK ZONES WITH APPROPRIATE MEASURES IN ACCORDANCE WITH MUTCD.
10. ADEQUATE PROVISIONS FOR PERSONS WITH DISABILITIES SHALL BE PROVIDED AT ALL TIMES PER ADA REQUIREMENTS.
11. WHEN NECESSARY, PEDESTRIANS SHALL BE APPROPRIATELY DIRECTED WITH ADVANCED WARNING SIGNS PLACED AT INTERSECTIONS, TO CROSS TO THE OPPOSITE SIDE OF THE ROADWAY IN ORDER TO PREVENT CONFLICT WITH MIDLICK WORK SITES.
12. PEDESTRIANS SHALL NOT BE LED INTO CONFLICT WITH WORK SITE EQUIPMENT, OPERATIONS, AND/OR VEHICLES MOVING THROUGH OR AROUND THE WORK SITE.
13. THE CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY TRANSIT BUREAU, 703-228-3049, A MINIMUM OF 4 WEEKS PRIOR TO COMMENCEMENT OF WORK, IF TRANSIT IS AFFECTED.
14. IF WORK DONE AT SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICLE DETECTION AT ALL TIMES DURING THE PROJECT. CONTACT SIGNAL ITS TEAM DONALD CUNNINGHAM AT 703-228-6655 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
15. THE CONTRACTOR SHALL COMPLY WITH "RESTRICTED" WORKING HOURS AS DEFINED BY VDOT AND AS NOTED ON THE APPROVED VDOT PERMIT WHEN WORKING WITHIN THE VDOT RIGHT-OF-WAY. THE CONTRACTOR IS RESPONSIBLE FOR SATISFYING ALL VDOT PERMIT REQUIREMENTS.
16. MAINTENANCE OF TRAFFIC PLANS AND DETAILS SHOWN HERE SHALL BE FOLLOWED BY THE CONTRACTOR DURING CONSTRUCTION. SHOULD THE CONTRACTOR DESIRE TO FOLLOW AN ALTERNATE PLAN, HE SHALL SUBMIT THE PLAN PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL. ALTERNATIVE PLAN PREPARATION SHALL BE NO COST TO THE COUNTY.
17. DIRECTIONAL ARROWS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS ARE FOR INFORMATION ONLY AND ARE NOT TO BE PLACED AS PAVEMENT MARKINGS.
18. THE CONTRACTOR SHALL COVER ANY EXISTING SIGNS WHICH ARE NOT APPLICABLE OR ARE IN CONFLICT WITH THIS MOT PLAN.
19. THE CONTRACTOR SHALL ERADICATE AND RE-STRIPE AS NECESSARY ANY EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH OR DO NOT ALIGN WITH THE TEMPORARY PAVEMENT MARKINGS OR NEW TRAFFIC PATTERNS.
20. THE CONTRACTOR SHALL ERADICATE ALL TEMPORARY PAVEMENT MARKINGS, INCLUDING TEMPORARY MARKED CROSSWALKS ONCE THE WORK AREA(S) ASSOCIATED WITH THE MARKINGS HAS BEEN COMPLETED.
21. CONTRACTOR SHALL NOTIFY ARLINGTON COUNTY PUBLIC SCHOOLS TWO WEEKS PRIOR TO STARTING CONSTRUCTION.

CONSTRUCTION NOTES:

- 1. CONTRACTOR SHALL KEEP LOCAL PEDESTRIAN AND VEHICULAR ACCESS TO THE PROPERTIES ALONG 25TH RD. N. AT ALL TIMES DURING CONSTRUCTION.

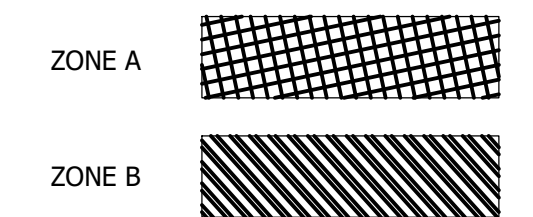


MAINTENANCE OF TRAFFIC PLAN

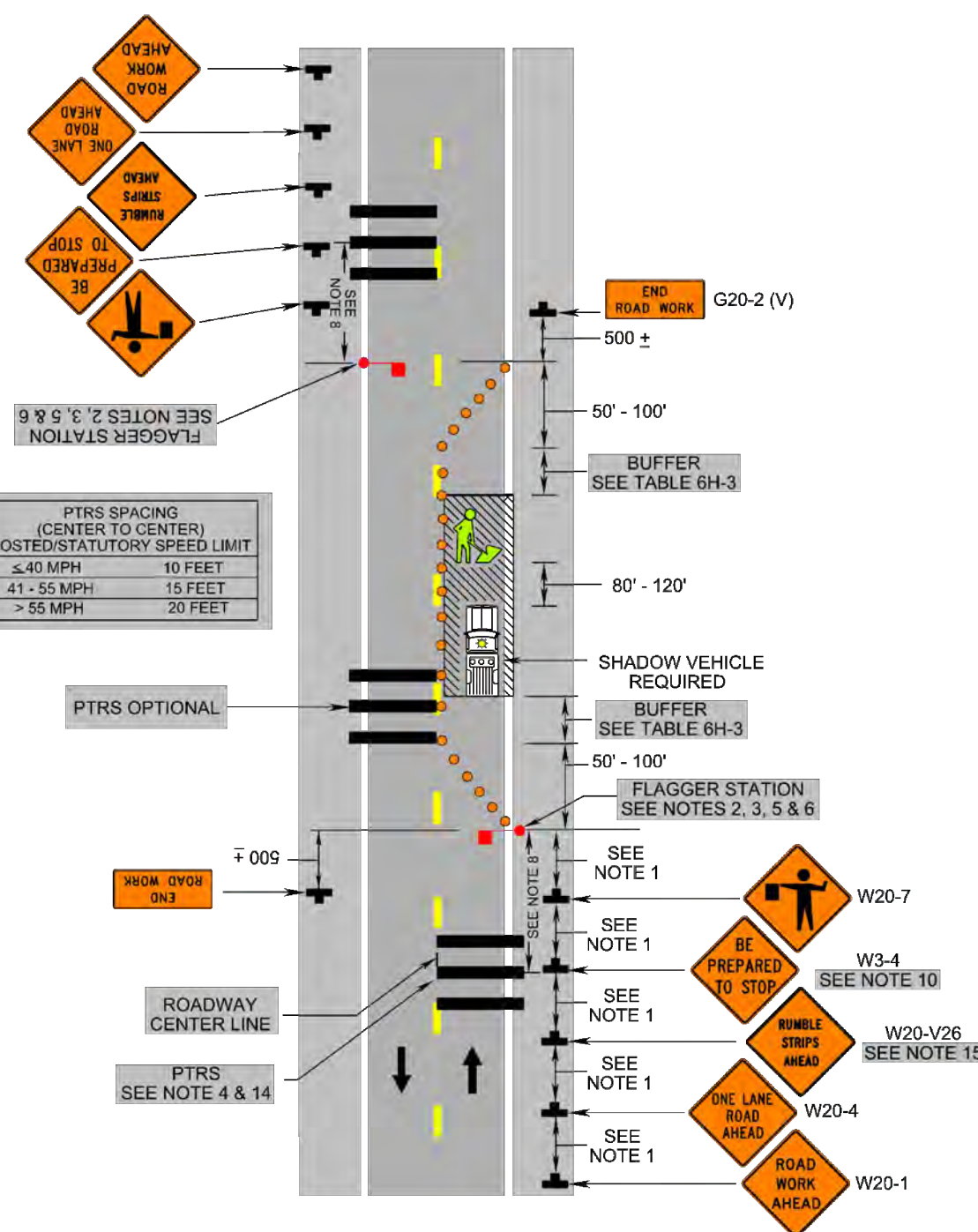
ZONE TABLE

Table with 5 columns: ZONE #, TTC#, COMMENTS, MAXIMUM DURATION, WORK HOURS. Zone A: TTC 23.2, Stormwater pipe construction in roadway, 5 days, 9:00 A.M. - 4:00 P.M. (M-F). Zone B: TTC 23.2, Stormwater structure removal and replacement, 5 days, 9:00 A.M. - 4:00 P.M. (M-F).

MOT ZONE LEGEND



Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.2)



Typical Traffic Control Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.2)

NOTES

- Guidance: 1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.
2. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.
3. To maintain efficient traffic flow in a flagging operation on a two-lane roadway, the maximum time motorists should be stopped at a flagger station is 8 minutes for high volume roadways (average daily traffic of 500 or more vehicles per day) to a maximum of 12 minutes for low volume roadways (less than 500 vehicles per day). For additional information see Section 6E.07.
Standard: 4. Portable Temporary Rumble Strips (PTRS) shall be used as noted in Section 6F.99.
5. Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5).
6. All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers).
7. Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6.
8. A shadow vehicle with at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew.
Option: 8. A SLOW (W21-V10) sign may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic.
Guidance: 9. If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs, and if used the PTRS' should be readjusted at greater distances.
10. When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).
Standard: 11. At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).
Option: 12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet or less.
13. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).
Standard: 14. When used, three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The portable temporary rumble strips shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be utilized.

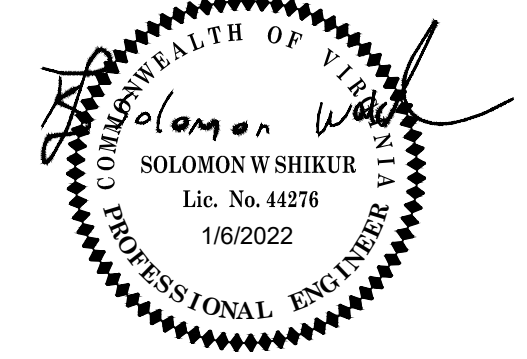
1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019
3: Revision 2.1 - 11/1/2020

1: Revision 1 - 4/1/2015
2: Revision 2 - 9/1/2019

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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SEAL



APPROVALS DATE

- Amy Pflaum 01/18/22
Quality Control Engineer
Adam E. Sulawski 1/20/22
Construction Management Supervisor
John 1/21/2022
Water, Sewer, Streets Bureau Chief
Dannia M. Leach 01/27/22
Transportation Director
John M. 1/27/22
Project Manager

REVISIONS DATE

Table for revisions with columns for revision number and date.

NORTHSIDE SALT STORAGE SITE
SLT1
SE CORNER OF OLD DOMINION DR & 26TH ST N
MAINTENANCE OF TRAFFIC PLAN

DESIGNED: SEB
DRAWN: SEB
CHECKED: SWS

PLOTTED: JANUARY 6 2022

SCALE:

