



NAVY FEDERAL CREDIT UNION  
HQ2 ATM ADDITION

1007 ELECTRIC AVE  
VIENNA, VIRGINIA 22180

**OWNER:**  
NAVY FEDERAL CREDIT UNION (NFCU)  
820 FOLLIN LANE, SE  
VIENNA, VA 22180  
703.206.3984 / CONTACT: TIM MARKLE

**ARCHITECT:**  
ASD, INC.  
3030 CLARENDON BLVD, SUITE 350  
ARLINGTON, VA 22201  
404.688.3318 / CONTACT : EVAN BURCH

**CIVIL ENGINEER**  
DEWBERRY  
8401 ARLINGTON BLVD  
FAIRFAX, VA 22031  
703.849.0497 / CONTACT: TIM CULLEITON

**LANDSCAPE**  
DEWBERRY  
8401 ARLINGTON BLVD  
FAIRFAX, VA 22031  
703.840.1900 / CONTACT: JACK STORY

**STRUCTURAL ENGINEER**  
DEWBERRY  
8401 ARLINGTON BLVD  
FAIRFAX, VA 22031  
919.424.3754 / CONTACT: JOE WOLHAR

**ELECTRICAL ENGINEER**  
DEWBERRY  
8401 ARLINGTON BLVD  
FAIRFAX, VA 22031  
703.645.9711 / CONTACT: RAY HOLDENER

**LOW VOLTAGE, SECURITY, TELECOM**  
NEWCOMB & BOYD  
303 PEACHTREE CENTER AVE NE SUITE 525  
ATLANTA, GA 30303  
404.293.5577 / CONTACT: MATT HOLLAND





CODE ANALYSIS

I. AUTHORITIES HAVING JURISDICTION:		
A. JURISDICTION	TOWN OF VIENNA / FAIRFAX COUNTY	
B. PLANNING	CONTACT: JILL G. COOPER – 703–246–4800	
C. FIRE MARSHAL	CONTACT: JOHN WALSER – 703–246–4800	
II. APPLICABLE BUILDING CODES:		
A. BUILDING/DWELLING CODE	2021	VIRGINIA CONSTRUCTION CODE
B. PLUMBING CODE	2021	VIRGINIA PLUMBING CODE
C. MECHANICAL CODE:	2021	VIRGINIA MECHANICAL CODE
D. ELECTRICAL CODE:	2021	VIRGINIA ELECTRICAL CODE
E. FIRE CODE	2021	VIRGINIA FIRE CODE
F. GAS CODE	2021	VIRGINIA GAS CODE
G. ENERGY CODE	2021	VIRGINIA ENERGY CONSERVATION CODE
H. LIFE SAFETY CODE	2021	VIRGINIA CONSTRUCTION CODE
I. ACCESSIBILITY:	2017	ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC / ANSI A117.1)
IV. GENERAL BUILDING FEATURES::		
A. CONSTRUCTION TYPE:	TYPE V–B	VIRGINIA CONSTRUCTION CODE, TABLE 601
B. BUILDING HEIGHT:	15–4”	VIRGINIA CONSTRUCTION CODE, TABLE 504.3
C. NO. OF STORIES:	1	VIRGINIA CONSTRUCTION CODE, TABLE 504.4
D. BUILDING AREA:	1148 SF	VIRGINIA CONSTRUCTION CODE, TABLE 506.2
E. NO. EXITS PER FLOOR:	–	
F. FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS:		
1. PRIMARY STRUCTURAL FRAME	0	VIRGINIA CONSTRUCTION CODE, TABLE 601
2. BEARING WALLS:		
a. EXTERIOR	0	
b. INTERIOR	0	
3. NON BEARING WALLS + PARTITIONS		
a. EXTERIOR		
1. IF LESS THAN 5 FEET	0	
2. IF BETWEEN 5 FEET AND 10 FEET	0	
3. IF OVER 30 FEET	0	
4. NON BEARING WALLS + PARTITIONS		
b. INTERIOR	N/A	
5. FLOOR CONSTRUCTION	N/A	
6. ROOF CONSTRUCTION:	0	
7. CORRIDOR / TENANT SEPARATION	N/A	
8. SHAFT ENCLOSURES	N/A	
G. ELEVATOR LOBBY:	N/A	
H. HORIZONTAL EXIT:	N/A	
J. EXIT ACCESS CORRIDORS:	N/A	
V. OCCUPANCY CLASSIFICATION		
A. CLASSIFICATION TYPE:	U – UTILITY AND MISCELLANEOUS	VIRGINIA CONSTRUCTION CODE, 312.1
B. CONSTRUCTION AREA:	1148 SF	
C. OCCUPANT LOAD:	UNOCCUPIED	
D. FIXTURE REQUIREMENTS:	N/A	
VI. EGRESS REQUIREMENTS		
A. MAXIMUM TRAVEL DISTANCE	100’	
B. MAXIMUM DEAD END CORRIDOR	N/A	
C. COMMON PATH OF TRAVEL	N/A	
D. EXIT SEPARATION	N/A	
E. MINIMUM OPENING OF EXIT DOORS	N/A	
F. MINIMUM EXIT RAMP / STAIR WIDTH	N/A	
G. MINIMUM CORRIDOR WIDTH	N/A	
H. EGRESS CAPACITY (WIDTH PER PERSON)	N/A	

ARCHITECTURAL SYMBOLS

	ELEVATION INDICATOR: ELEV. NUMBER – SHEET NUMBER		ROOM TAG
	SECTION INDICATOR: DRAWING NUMBER SHEET NUMBER		REVISION NUMBER
	ENLARGED PLAN/DETAIL: DRAWING NUMBER SHEET NUMBER		CODED NOTE
	ELEVATION HEIGHT INDICATOR: HEIGHT DESCRIPTION		MILLWORK NOTE
	ALIGN ELEMENTS		DOOR & ROOM NUMBER DOOR TYPE HARDWARE SET
	WINDOW TYPE SYMBOL		EQUIPMENT NOTE
			WALL TYPE NOTE

PROJECT DESCRIPTION

This project includes the addition of a new two-way drive-through ATM located in the front yard setback of the existing NFCU HQ2 building. The site is a grass field with sparse trees. We propose to build a new driveway to accommodate the ATMS and a fabric tensile structure to provide shade and cover from the weather.

The new driveway approach will accommodate up to twelve stacked vehicles within the new drive area without backing up onto the campus roadways or parking lots.

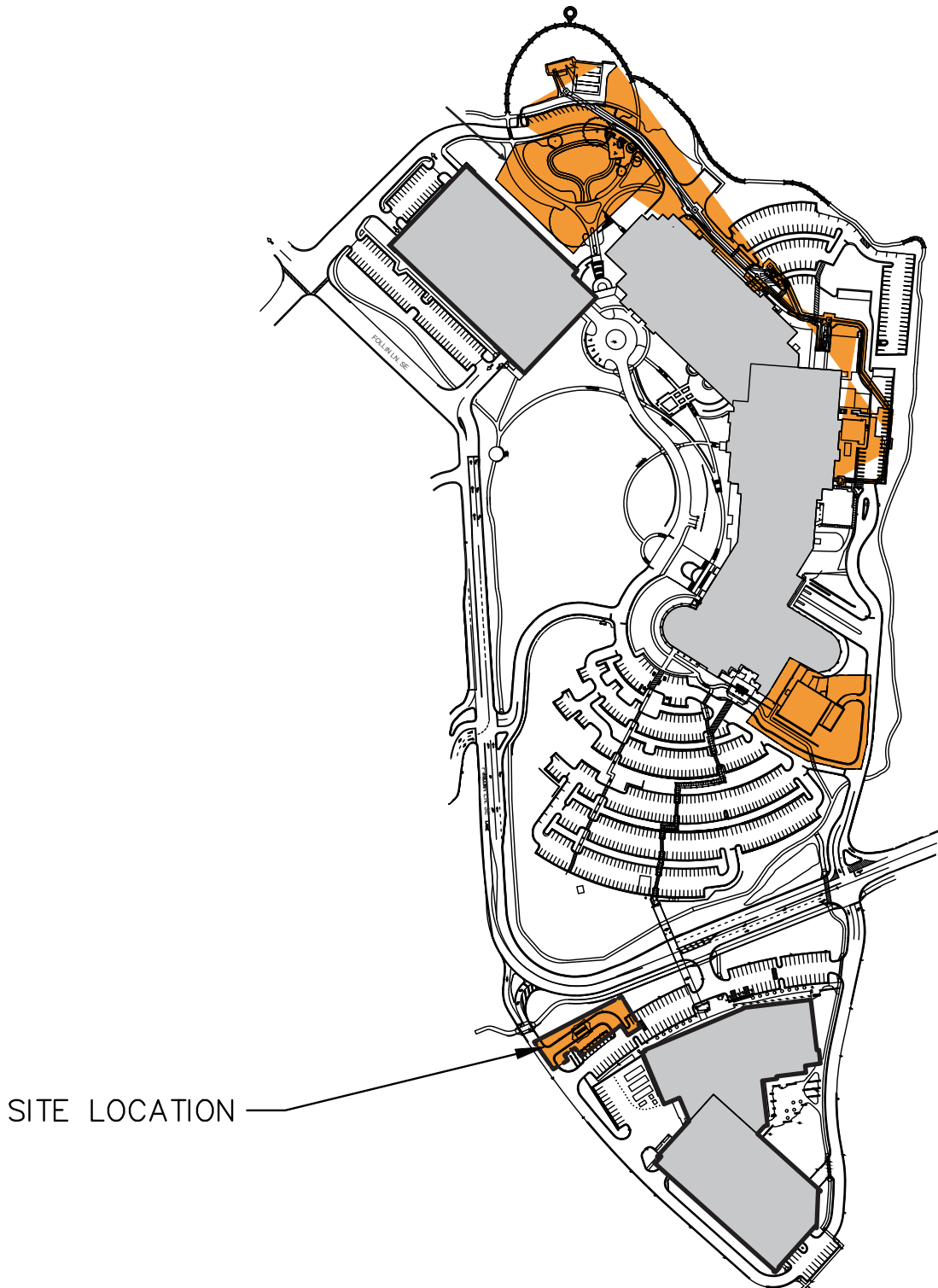
These two new ATMs are intended to replace the two existing ATMs on the HQ1 building site. The existing ATMs are anticipated to be removed as soon as the new ones are constructed.

A Special Use Variance will be required by the Zoning Department to allow drive-through ATMs to be located in the front yard setback of the property.

Refer to BZA-25136 Variance Request that was submitted on 3/28/25 and approved by Town of Vienna Board of Zoning Appeals on 4/16/25.

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KEY PLAN



INDEX OF DRAWINGS

SHEET NO.	SHEET TITLE	ORIGINAL ISSUE DATE	REVISION NO.	REVISION ISSUE DATE
CIVIL				
C-001	COVER SHEET	01.24.2025	0	
C-002	ABBREVIATIONS, NOTES AND LEGEND	01.24.2025	0	
C-100	PROPERTY MAP	04.28.2025	0	
C-101	EXISTING CONDITIONS AND DEMO PLAN	01.24.2025	0	
C-102	SITE PLAN	01.24.2025	0	
C-103	GRADING AND DRAINAGE PLAN	01.24.2025	0	
C-104	UTILITY PLAN	04.28.2025	0	
C-201	EROSION & SEDIMENT CONTROL PLAN PH I	01.24.2025	0	
C-202	EROSION & SEDIMENT CONTROL PLAN PH II	01.24.2025	0	
C-203	EROSION & SEDIMENT CONTROL NARRATIVE	01.24.2025	0	
C-204	EROSION & SEDIMENT CONTROL DETAILS	01.24.2025	0	
C-205	EROSION & SEDIMENT CONTROL DETAILS	01.24.2025	0	
C-301	STORM SEWER PROFILES	01.24.2025	0	
C-501	CONSTRUCTION DETAILS	01.24.2025	0	
C-SW-200	SWM DRAINAGE MAP (PRE-DEVELOPMENT)	01.24.2025	1	04.30.2025
C-SW-201	SWM DRAINAGE MAP (POST-DEVELOPMENT)	01.24.2025	1	04.30.2025
C-SW-300	SWM NARRATIVE	01.24.2025	1	04.30.2025
C-SW-301	VRRM SPREADSHEET	01.24.2025	1	04.30.2025
C-SW-302	SWM COMPUTATIONS	01.24.2025	1	04.30.2025
C-SW-400	SWM DETAILS	01.24.2025	1	04.30.2025
C-SW-401	SWM DETAILS	01.24.2025	1	04.30.2025
C-SW-402	SWM DETAILS	01.24.2025	1	04.30.2025
C-SW-403	SWM DETAILS	01.24.2025	1	04.30.2025
C-SW-404	SWM DETAILS	01.24.2025	1	04.30.2025
LANDSCAPE				
L-100	EXISTING TREE INVENTORY	04.28.2025	0	
L-101	TREE PRESERVATION AND LANDSCAPE PLAN	01.24.2025	1	04.30.2025
L-201	LANDSCAPE SCHEDULE & DETAILS	01.24.2025	0	
ARCHITECTURAL AND SIGNAGE				
G0.00	COVER SHEET	01.24.2025	2	04.30.2025
G0.01	INDEX AND PROJECT INFORMATION	01.24.2025	4	04.30.2025
A1.01	NFCU CAMPUS DEVELOPMENT PLAN	04.28.2025	0	
A2.01	ARCHITECTURAL AND SIGNAGE DEMOLITION PLAN	01.24.2025	0	
A3.01	ARCHITECTURAL AND SIGNAGE PLAN	01.24.2025	0	
A4.01	ENLARGED PLANS, ELEVATIONS, AND DETAILS	01.24.2025	0	
A4.02	ENLARGED PLANS, ELEVATIONS, AND DETAILS	01.24.2025	0	
A4.03	SIGNAGE DETAILS	01.24.2025	0	
A5.01	STRUCTURE ELEVATIONS	04.28.2025	0	
A6.01	LIGHT FIXTURE TYPE "L" PHOTOMETRY	01.27.2025	1	04.30.2025
A6.02	NFCU STANDARD DETAILS - JUNCTION BOX LAYOUT	07.15.2024	1	04.30.2025
A6.03	NFCU STANDARD DETAILS - CONDUIT AND BOX LAYOUT A	07.15.2024	1	04.30.2025
A6.04	NFCU STANDARD DETAILS - CONDUIT AND BOX LAYOUT B	07.15.2024	1	04.30.2025
STRUCTURAL				
S-001	GENERAL STRUCTURAL NOTES, ABBREVIATIONS, AND SCHEDULES	01.24.2025	0	
S-101	STRUCTURAL FOUNDATION PLAN & DETAILS	01.24.2025	0	
ELECTRICAL				
E0.00	ELECTRICAL COVER SHEET	01.24.2025	2	04.02.2025
E1.01	ELECTRICAL NEW WORK PLAN	01.24.2025	2	04.02.2025
E4.01	ELECTRICAL ENLARGED PLAN	04.28.2025	0	
E5.01	ELECTRICAL DETAILS	01.24.2025	0	
E6.01	ELECTRICAL DIAGRAMS	01.24.2025	3	04.02.2025
E7.01	ELECTRICAL SCHEDULES	04.02.2025	1	04.02.2025
TELECOM				
LV01.00	TELECOM - DEMOLITION SITE PLAN	01.24.2025	0	
LV0.01	LOW VOLTAGE LEGEND & NOTES	01.24.2025	0	
LV0.02	BILL OF MATERIALS	01.24.2025	0	
LV0.03	LOW VOLTAGE PROJECT NOTES	01.24.2025	0	
LV1.03A	TELECOM - HQ2 LOWER LEVEL - AREA A	01.24.2025	0	
LV2.01	TELECOM AND SECURITY - NEW WORK OVERALL SITE PLAN	01.24.2025	0	
LV2.02	TELECOM AND SECURITY - NEW WORK PARTIAL SITE PLAN	01.24.2025	0	
LV5.00	TELECOM AND SECURITY - DETAILS	01.24.2025	0	

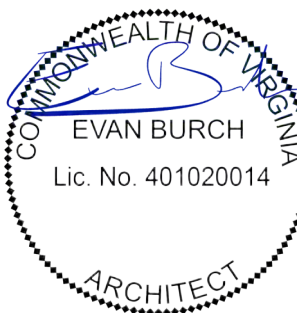
LOCATION MAP



ASD | SKY

NAVY FEDERAL  
CREDIT UNION  
HQ2 ATM ADDITION

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Associated Space Design, Inc. 2025

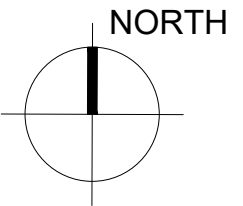
5	04.30.25	FFX PERMIT RESUBMISSION
4	04.28.25	ASI 1
3	04.24.25	CONFORMED SET
2	04.02.25	ADDENDUM #2
1	03.24.25	ADDENDUM #1
0	01.24.25	PRICING AND PERMIT
NO.	DATE	REMARKS
REVISIONS:		

DRAWING TITLE:  
GENERAL PROJECT  
INFORMATION SHEET

PROJECT NO.: 71498.00	ISSUE DATE: 01.24.2025
DRAWN BY: JLV	CHECKED BY: GC
SHEET NUMBER: G0.01	



1007 ELECTRIC AVE  
ENNA, VIRGINIA 22180

[illegible][illegible]

01/24/2025		PRICING AND PERMIT	
DATE:		REMARKS:	
REVISIONS:			
NG TITLE: <b>NFCU CAMPUS          DEVELOPMENT PLAN</b>			
CT NO.:		ISSUE DATE:	
1498.00		01.24.2025	
BY:		CHECKED BY:	
JLV		GC	
NUMBER:			



# NAVY FEDERAL CREDIT UNION Q2 ATM ADDITION

1007 ELECTRIC AVE  
ANNAPOLIS, VIRGINIA 22180



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Associated Space Design, Inc. 2025

0	01-24-2025	PRICING AND PERMIT
NO:	DATE:	REMARKS:
REVISIONS:		

PROJECT NO:		ISSUE DATE:	
71498.00		01.24.2025	
DRAWN BY:		CHECKED BY:	
JLV		GC	
SHEET NUMBER:			

## A2.01

**SIGNAGE TO BE SUBMITTED  
SEPARATELY FOR APPROVAL**

- 1 EXISTING SIGN AND POLE TO REMAIN
- 2 EXISTING MONUMENT SIGN TO REMAIN. CLEAN AND PREP FOR IN-PLACE ALTERATIONS
- 3 EXISTING SIGN BOX TO BE RELOCATED. REMOVE AND SALVAGE BOX FOR REINSTALLATION IN NEW LOCATION. CLEAN AND PREP FOR NEW ALTERATIONS. DEMOLISH EXISTING CONCRETE BASE. EXISTING ELECTRICAL POWER CIRCUIT TO REMAIN AND BE EXTENDED TO NEW SIGN LOCATION
- 4 EXISTING SIGN AND POLE TO BE RELOCATED. REMOVE AND SALVAGE SIGN AND POLE FOR REINSTALLATION IN NEW LOCATION TO BE DIRECTED BY OWNER
- 5 REMOVE EXISTING SIGNS AND POLE. RETURN TO OWNER FOR ATTIC STUCK. REINSTALL ONE "SMOKE-FREE CAMPUS" TYPE D ONTO EXISTING POLE IN OPPOSITE ISLAND
- 6 EXISTING SIGNS AND POLE TO BE RELOCATED. REMOVE AND SALVAGE SIGNS AND POLE FOR REINSTALLATION IN NEW LOCATION
- 7 EXISTING POLE AND C.3 SIGN TO REMAIN. REMOVE AND DEMOLISH "DELIVERY ENTRANCE" SIGN


## 4 DEMO PLAN CODED NOTES

1 CODED NOTE

SIGN TYPE:     A    B    C    D    E    F \_\_\_\_\_

SIGN NUMBER:   1    2    3    4    5 \_\_\_\_\_

SIGN SIDE:       A1   A2   B1   B2 \_\_\_\_\_

ELECTRICAL:    \_\_\_\_\_

- A MONUMENT SIGN
- B SINGLE SIGN WITH POLE
- C VEHICULAR DIRECTIONAL SIGN
- D SLOGAN SIGNAGE
- E STOP SIGN
- F PEDESTRIAN SIGN
- G VISITOR PARKING SIGN

### 3 SIGNAGE LEGEND

SYMBOL	DESCRIPTION	REMARKS
————	EXISTING ITEM TO REMAIN	
-----	EXISTING ITEM TO BE DEMOLISHED	

2	DEMOLITION PLAN LEGEND
---	------------------------

[illegible]

NORTH

1	DEMO PLAN
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SCALE: 1/16" = 1'-0"

## 2 DEMOLITION PLAN LEGEND







DRAWING KEYED NOTES:

1. APPROXIMATE LOCATION OF NEW EVSE PANEL. REFER TO DETAIL 2 FOR ADDITIONAL INFORMATION.
2. APPROXIMATE LOCATION OF EXISTING PANEL INTENDED TO SERVE NEW OUTDOOR ATM. REFER TO DETAIL 2 FOR ADDITIONAL INFORMATION.
3. LOCATION OF NEW OUTDOOR ATM. REFER TO ARCHITECTURAL DRAWING A3.01 FOR LOCATIONS, DIMENSIONS, AND ADDITIONAL INFORMATION. COORDINATE WITH ATM REQUIREMENTS, SERVICE ENTRY LOCATIONS, ETC.
4. ROUTE (2) SETS OF CONDUIT FROM ATM LOCATION INTO THE EXISTING BUILDING FOR UPS POWER WIRING. THE CONDUIT SHALL BE ROUTED IN THE FOLLOWING MANNER: ROUTE (2) NEW SETS OF CONDUIT FROM EXISTING UPS POWER PANEL UPWL-1A TO THE NEW ATM LOCATION. COORDINATE CONDUIT PATHWAY IN THE FIELD PER FIELD CONDITIONS. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM ON DRAWING E6.01 AND PANEL SCHEDULES ON DRAWING E7.01 FOR FEEDER AND CONDUIT SIZES. COORDINATE WITH ATM REQUIREMENTS, SERVICE ENTRY LOCATIONS, ETC.
5. CIRCUIT (2) NEW SECURITY CAMERAS WITHIN THE CANOPY LIGHTING STRUCTURE TO EXISTING UPS POWER PANEL UPWL-1A. ROUTE (1) CONDUIT FROM THE NEW SECURITY CAMERA LOCATION TO THE EXISTING UPS POWER PANEL UPWL-1A WITHIN THE EXISTING BUILDING. COORDINATE CONDUIT PATHWAY IN THE FIELD PER FIELD CONDITIONS. CONTRACTOR TO COORDINATE WITH THE SECURITY INSTALLER TO DETERMINE SECURITY CAMERA LOCATION WITHIN THE ATM CANOPY LIGHTING STRUCTURE. REFER TO DETAIL 11 ON DRAWING E5.01 FOR ADDITIONAL INFORMATION. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM ON DRAWING E6.01 AND PANEL SCHEDULES ON DRAWING E7.01 FOR FEEDER AND CONDUIT SIZES.
6. ROUTE (2) NEW CONDUIT FROM OUTDOOR PULL BOX TO EACH OF THE (8) FUTURE EVSE HAND HOLES INDICATED. INSTALL CONDUITS VIA DIRECTIONAL DRILLING BELOW EXISTING PARKING LOT AREA AND SIDEWALKS; REFER TO DETAIL 9 ON DRAWING E5.01. CONDUIT DEPTH IN PARKING LOT TO BE A MINIMUM DEPTH OF 24" PER NEC TABLE 300.5. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM ON DRAWING E6.01 AND PANEL SCHEDULES ON DRAWING E7.01 FOR FEEDER AND CONDUIT SIZES.
7. ROUTE (16) NEW CONDUITS FROM OUTDOOR PULL BOX TO THE NEW ELECTRICAL POWER PANEL EVSE WITHIN THE EXISTING BUILDING. INSTALL CONDUITS IN VIA DIRECTIONAL DRILLING BELOW EXISTING PARKING LOT AREA AND SIDEWALKS. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM AND PANEL SCHEDULES ON DRAWING E6.01 FOR FEEDER AND CONDUIT SIZES.
8. PROVIDE NEW HANDHOLE FOR FUTURE EVSE. REFER TO KEYED NOTE 5, DETAIL 1 ON E6.01 FOR SIZING AND ADDITIONAL INFORMATION.
9. PROVIDE NEW 36" X 36" X 16" (MINIMUM SIZE INDICATED PER NEC) OUTDOOR PULL BOX FOR ROUTING OF CONDUIT FOR FUTURE EVSE HANDHOLES AND NEW ATM UNITS. ONLY POWER CONDUCTORS WILL BE CONTAINED WITHIN THIS BOX. NO DATA CONDUCTORS ARE INTENDED.
10. NEW LOCATION OF RELOCATED EXTERIOR ILLUMINATED SIGN BY OWNER. EXTEND EXISTING CIRCUIT PREVIOUSLY SERVING THE EXTERIOR SIGN FROM THE PREVIOUS SIGN LOCATION TO THE NEW LOCATION INDICATED. MATCH/EXTEND WIRING AND RACEWAY TO FACILITATE THE NEW LOCATION. INSTALL CONDUITS VIA DIRECTIONAL DRILLING BELOW EXISTING STREET AND SIDEWALKS. THE CONDUIT DEPTH IN THE DRIVEWAY IS TO BE A MINIMUM DEPTH OF 24" PER NEC TABLE 300.5.
11. PREVIOUS LOCATION OF RELOCATED ILLUMINATED EXTERIOR SIGN BY OWNER. PROVIDE A NEW IN-GROUND RATED HANDHOLE AT THE EXISTING SIGN LOCATION FOR EXISTING WIRE TERMINATION AND FOR EXTENDING THE EXISTING CIRCUIT TO THE NEW SIGNAGE LOCATION AS REQUIRED BY KEYED NOTE 10.
12. NEW TYPE H 120V EXTERIOR LAMP FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. ROUTE (1) CONDUIT FROM THE NEW LAMP POST LOCATION TO THE EXISTING CIRCUIT CURRENTLY SERVING EXTERIOR LIGHTING FIXTURES WITHIN THE AREA INDICATED. MATCH EXISTING BUILDING SITE EXTERIOR LAMP BASIS OF DESIGN. CONNECT TO EXISTING CONTROLS SERVING EXISTING LIGHTING FIXTURES WITHIN THE AREA INDICATED. COORDINATE CONDUIT PATHWAY IN THE FIELD PER FIELD CONDITIONS BELOW GRADE. CONFIRM CIRCUIT DOES NOT EXCEED 18 AMPS. PER AS-BUILT DOCUMENTATION, THIS PANEL SHOULD BE PANEL GPH WITH EXISTING LIGHTING CONTROLS BEING PROVIDED BY MASTER LIGHTING CONTROL PANEL LCP1. PROVIDE 24" ROUND CONCRETE BASE FOR 3" POLE WITH CAP. REFER TO DETAIL 10 ON DRAWING E5.01 FOR ADDITIONAL INFORMATION. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM AND PANEL SCHEDULES ON DRAWING E6.01 FOR FEEDER AND CONDUIT SIZES. REFER TO THE LUMINAIRE SCHEDULE ON DRAWING E7.01 FOR ADDITIONAL LIGHTING FIXTURE INFORMATION.
13. PROVIDE 120V WEATHERPROOF DUPLEX RECEPTACLE FOR CONNECTION TO OUTDOOR TELECOM ENCLOSURE AND MEDIA CABINET. ROUTE (1) NEW CONDUIT FROM EXISTING UPS POWER PANEL UPWL-1A WITHIN EXISTING BUILDING HQ2 TO THE NEW OUTDOOR TELECOM ENCLOSURE AND MEDIA CABINET LOCATION. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM ON DRAWING E6.01 AND PANEL SCHEDULES ON DRAWING E7.01 FOR FEEDER AND CONDUIT SIZES.
14. APPROXIMATE LOCATION OF NEW ATM CANOPY LIGHTING STRUCTURE BY OTHERS. ROUTE (1) CONDUIT FROM THE NEW CANOPY LIGHTING STRUCTURE TO PANEL GPH WITHIN THE EXISTING BUILDING. COORDINATE CONDUIT PATHWAY IN THE FIELD PER FIELD CONDITIONS BELOW GRADE. CONNECT TO EXISTING CONTROLS SERVING EXISTING LIGHTING FIXTURES WITHIN THE AREA INDICATED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTRACTORS, RELAYS, INTERFACE DEVICES, PROGRAMMING REQUIRED FOR A COMPLETE OPERATIONAL INSTALLATION. REFER TO DETAIL 11 ON DRAWING E5.01 FOR ADDITIONAL INFORMATION. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM ON E6.01 AND PANEL SCHEDULES ON E7.01 FOR FEEDER AND CONDUIT SIZES. REFER TO THE LUMINAIRE SCHEDULE ON DRAWING E7.01 FOR ADDITIONAL INFORMATION ON THE TYPE 1 LIGHTING FIXTURES INDICATED. COORDINATE WITH THE CANOPY STRUCTURE FABRICATOR AND STRUCTURAL CONTRACTOR AS REQUIRED.
15. ROUTE (1) CONDUIT FROM ATM LOCATION INTO THE EXISTING BUILDING FOR UPS POWER WIRING. THE CONDUIT SHALL BE ROUTED IN THE FOLLOWING MANNER: ROUTE (1) NEW CONDUIT FROM EXISTING UPS POWER PANEL UPWL-1A TO THE NEW ATM LOCATION. COORDINATE CONDUIT PATHWAY IN THE FIELD PER FIELD CONDITIONS INSIDE THE SPACE AND BELOW GRADE. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM ON DRAWING E6.01 AND PANEL SCHEDULES ON DRAWING E7.01 FOR FEEDER AND CONDUIT SIZES.
16. ROUTE (2) CONDUIT FROM THE NEW CANOPY LIGHTING STRUCTURE TO PANEL GPH WITHIN THE EXISTING BUILDING. COORDINATE CONDUIT PATHWAY IN THE FIELD PER FIELD CONDITIONS BELOW GRADE. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM ON DRAWING E6.01 AND PANEL SCHEDULES ON E7.01 FOR FEEDER AND CONDUIT SIZES. COORDINATE WITH THE CANOPY STRUCTURE FABRICATOR AND STRUCTURAL CONTRACTOR AS REQUIRED.
17. ROUTE (1) CONDUIT FROM THE NEW SECURITY CAMERA LOCATION TO THE EXISTING UPS POWER PANEL UPWL-1A WITHIN THE EXISTING BUILDING. COORDINATE CONDUIT PATHWAY IN THE FIELD PER FIELD CONDITIONS. CONTRACTOR TO COORDINATE WITH THE SECURITY INSTALLER TO DETERMINE SECURITY CAMERA LOCATION WITHIN THE ATM CANOPY LIGHTING STRUCTURE. REFER TO DETAIL 11 ON DRAWING E5.01 FOR ADDITIONAL INFORMATION. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM ON DRAWING E6.01 AND PANEL SCHEDULES ON DRAWING E7.01 FOR FEEDER AND CONDUIT SIZES. COORDINATE WITH THE CANOPY STRUCTURE FABRICATOR AND STRUCTURAL CONTRACTOR AS REQUIRED.
18. PROVIDE NEW IN-GROUND RATED JUNCTION BOX FOR ROUTING NEW FEEDERS AND CONDUIT TO NEW ATM CANOPY STRUCTURE.
19. PROVIDE NEW 36" X 36" X 16" WALL MOUNTED NEMA 4 EXTERIOR RATED HOFFMAN BOX FOR ROUTING OF CONDUIT TO BE INSTALLED VIA DIRECTIONAL DRILLING. PROVIDE HINGED, LATCHABLE/LOOKABLE RAIN TIGHT COVER. ONLY POWER CONDUCTORS WILL BE CONTAINED WITHIN THIS BOX. NO DATA CONDUCTORS ARE INTENDED.
20. THE INDICATED CONDUITS, LOCATED BETWEEN THE EXTERIOR RATED HOFFMAN BOX AND THE POINT OF PENETRATION INTO THE EXISTING BUILDING, ARE TO BE ROUTED HIGH ON THE EXPOSED BACK OF THE RETAINING WALL ON THE GENERATOR SIDE, ABOVE THE EXISTING SOUND PANELS. CONDUIT WILL THEN DROP DOWN BEHIND THE SOUND PANELS BEFORE PENETRATING THE RETAINING WALL AT THE LOCATION INDICATED IN KEYED NOTE 19 ABOVE. SOUND PANELS TO BE REMOVED AS NEEDED TO ACCOMMODATE CONDUIT INSTALLATION, AND THEN REINSTALLED FOLLOWING CONSTRUCTION.
21. CONDUITS INSTALLED UNDER THE EXISTING PARKING LOT, DRIVEWAY, AND SIDEWALKS SHALL BE INSTALLED USING DIRECTIONAL DRILLING SO AS TO AVOID HAVING TO CUT THE PARKING LOT, DRIVEWAY, AND SIDEWALKS. TRENCHING SHALL NOT BE ALLOWED UNLESS SPECIFICALLY STATED IN WRITING BY THE OWNER. IF TRENCHING IS PERFORMED, THE PARKING LOT, DRIVEWAY, AND SIDEWALKS SHALL BE RESTORED TO MATCH EXISTING TO THE SATISFACTION OF THE OWNER.
22. CONDUITS INSTALLED ALONG THE EXTERIOR SURFACE OF THE EXISTING BUILDING ARE TO BE INSTALLED ALONG THE PRECAST JUST BELOW THE FIRST FLOOR WINDOWS. COORDINATE WITH NFCU AND ARCHITECT PRIOR TO COMMENCING.
23. CONDUITS INSTALLED ALONG THE EXTERIOR SURFACE OF THE EXISTING BUILDING WILL DROP AT THE LOCATION INDICATED, TO A HEIGHT BELOW THE TOP OF THE RETAINING WALL. COORDINATE WITH NFCU AND ARCHITECT PRIOR TO COMMENCING.
24. APPROXIMATE LOCATION OF NEW SECURITY CAMERAS WITHIN THE CANOPY LIGHTING STRUCTURE, DENOTED BY SUBSCRIPT "C" AND REFERENCE WITHIN KEYED NOTE 5 ABOVE.
25. NEW KEYED NOTE: ALL CONDUITS PENETRATING THE RETAINING WALL BELOW GRADE SHALL BE SEALED BETWEEN THE OUTER SIDE OF THE CONDUIT AND THE CONCRETE WITH SUITABLE WATERPROOF WATER SEALANT AS APPROVED BY THE ARCHITECT.
26. ROUTE (1) CONDUIT FROM THE NEW 120V WEATHERPROOF TELECOM ENCLOSURE DUPLEX RECEPTACLE TO THE EXISTING UPS POWER PANEL UPWL-1A WITHIN THE EXISTING BUILDING. COORDINATE CONDUIT PATHWAY IN THE FIELD PER FIELD CONDITIONS. REFER TO THE ELECTRICAL DISTRIBUTION DIAGRAM ON DRAWING E6.01 AND PANEL SCHEDULES ON DRAWING E7.01 FOR FEEDER AND CONDUIT SIZES.
27. ROUTE (2) NEW 1-1/4" CONDUITS FROM OUTDOOR PULL BOX TO THE NEW ELECTRICAL POWER PANEL EVSE WITHIN THE EXISTING BUILDING. INSTALL CONDUITS VIA DIRECTIONAL DRILLING BELOW EXISTING PARKING LOT AREA AND SIDEWALKS.

HANDHOLE SCHEDULE	
#	HANDHOLE FOR FUTURE EVSE CHARGER. ANTICIPATED BASIS OF DESIGN: DUAL PORT CHARGE POINT 6000 SERIES. NUMBERS INDICATED ARE ONLY INTENDED TO IDENTIFY THE EVSE CHARGER LOCATION NUMBER. REFER TO KEYED NOTE 5, DETAIL 1 ON E6.01 FOR HANDHOLE SIZING AND ADDITIONAL INFORMATION. # DESIGNATES THE FUTURE EVSE CHARGER LOCATION NUMBER.

1 ELECTRICAL NEW WORK PLAN

SCALE: 1/8" = 1'-0"

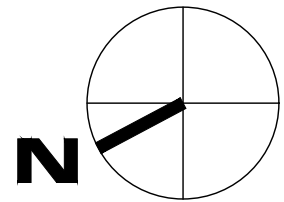
NEW WORK PLAN DRAWING GENERAL NOTES:

1. FIXTURES AND DEVICES INDICATED WITH AN 'N' ARE NEW.
2. ALL FIXTURES AND DEVICES INDICATED ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. FIXTURES INDICATED WITH AN 'E' ARE ALSO EXISTING TO REMAIN. FIXTURES AND DEVICES TO MAINTAIN CONNECTION TO EXISTING CIRCUITS. CONTRACTOR MAY RE-USE FIXTURES (LIGHTS OR EXIT SIGNS), PROVIDED THEY ARE DEEMED IN ACCEPTABLE QUALITY BY THE OWNER AND ARCHITECT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANNING, LAYING OUT, COORDINATING, AND INSTALLING THE NEW ELECTRICAL CIRCUITING IN A MANNER THAT IS AS CLEAR AND CONCISE AS FEASIBLE. THE INTENT IS FOR THE CIRCUITING BETWEEN FIXTURES AND OTHER DEVICES TO BE MANAGEABLE AND CLEAR TO NFOU FACILITIES AND CONTRACTORS IN THE FUTURE SHOULD TRACING AND REPAIR BE NECESSARY. THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR REVIEW BY NFOU, THE ARCHITECT, AND THE ENGINEER, A DETAILED SHOP DRAWING SHOWING THE ROUTING LOCATIONS, SIZES (CONDUIT AND WIRING), PANEL NAME/CIRCUIT NUMBER, AND DEPTH BELOW GRADE. THE CONTRACTOR SHALL NOT INSTALL ANY BURIED CONDUIT OR WIRING UNTIL SUCH SHOP DRAWING HAS BEEN RETURNED TO THE CONTRACTOR AND DEEMED READY TO PROCEED.
4. SEE ELECTRICAL DISTRIBUTION DIAGRAM ON DRAWING E6.01 FOR INFORMATION REGARDING FEEDER SIZING.
5. CONDUIT ROUTING INDICATED ON PLANS IS DIAGRAMMATIC ONLY. EXACT ROUTING TO BE COORDINATED WITH FIELD CONDITIONS AND BETWEEN ALL TRADES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. IF DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE. CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO DEMOLITION OR EXCAVATION.
7. CONTRACTOR SHALL ERECT ALL NECESSARY PROTECTIVE DEVICES AROUND THE LIMITS OF CONSTRUCTION AND PROVIDE PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL MEASURES DURING CONSTRUCTION AS NEEDED.
8. DIRECTIONAL DRILL UNDER EXISTING CURBS AND SIDEWALKS TO EXTENT POSSIBLE TO MINIMIZE DISTURBANCE.

9. WHERE THE NEW EQUIPMENT LOCATIONS INTERFERE WITH EXISTING BUSHES, THE CONTRACTOR SHALL REMOVE BUSHES INCLUDING ROOTS, BACKFILL WITH SUITABLE SOIL, AND REPLACE WITH SOIL. COORDINATE ALL WORK WITH NFOU, ARCHITECT, AND LANDSCAPE ARCHITECT PRIOR TO ANY WORK THAT IMPACTS LANDSCAPING.
10. CONTRACTOR SHALL COORDINATE SUBSURFACE UTILITY MARKOUT PRIOR TO BEGINNING WORK.
11. CONTRACTOR SHALL SUBMIT A DETAILED PROPOSED WORK PLAN FOR THE INSTALLATION OF UNDERGROUND CONDUIT PRIOR TO CONSTRUCTION START. REFER TO DRAWING E1.01 FOR REQUIREMENTS AND INFORMATION.
12. THESE DRAWINGS INDICATE A PROPOSED BASIS OF DESIGN PATH AND MEANS OF EXTENDING NEW CONDUITS/CIRCUITS FROM ONE SIDE OF THE PAVED AREA (INCLUDING SIDEWALK) AND THE OTHER SIDE, NAMELY DIRECTIONAL DRILLING, WITH PULL BOXES ON EACH END. THE INTENT OF THE BASIS OF DESIGN IS TO AVOID CUTTING, TRENCHING, AND PATCHING THE PAVED AREA. THE OWNER, ARCHITECT, AND ENGINEER WILL CONSIDER SUGGESTIONS OFFERED BY THE CONTRACTOR IN THE BIDDING PHASE FOR ALTERNATE PATH(S) AND/OR MEANS OF EXTENDING NEW CONDUITS/CIRCUITS FROM ONE SIDE TO THE OTHER SIDE. ALL SUCH SUGGESTIONS SHALL BE COMPLETE WITH DETAILED DESCRIPTION AND DIAGRAM/DRAWING OF THE CONTRACTOR'S PROPOSED ROUTING AND MEANS, IMPACT ON PROJECT SCHEDULE, AND IMPACT ON BID COST (WHETHER DEDUCTIVE OR ADDITIVE). THE CONTRACTOR SHALL NOT PROCEED WITH A PATH OR MEANS OTHER THAN THE BASE BID WITHOUT THE OWNER'S WRITTEN APPROVAL. ANY ALTERNATE PATH AND MEANS THAT INVOLVES CUTTING, TRENCHING, AND PATCHING THE PAVED AREA SHALL BE REQUIRED TO RESTORE THE PAVED AREA SURFACE AND APPEARANCE TO MATCH EXISTING TO THE APPROVAL OF THE OWNER WHO RESERVES THE RIGHT TO REJECT ANY WORK BY PROPOSING AN ALTERNATE APPROACH. THE CONTRACTOR ACCEPTS THESE REQUIREMENTS AND CONDITIONS. REFER TO THE SPECIFICATIONS AND GENERAL CONDITIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS APPLICABLE TO ALTERNATE APPROACHES.
13. ALL EXPOSED WORK SHALL BE FULLY PRESENTED TO AND APPROVED BY NFOU PRIOR TO COMMENCING ANY OF THE WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUITS AND OTHER ITEMS INSTALLED ON THE EXTERIOR OF THE BUILDING AND ON THE RETAINING WALL. IN ADDITION, ALL LOCATIONS OF INGROUND BOXES AND OTHER DEVICES SHALL BE APPROVED BY NFOU AND THE ARCHITECT PRIOR TO COMMENCING THE INSTALLATION.
14. CONTRACTOR SHALL SUBMIT 1/8" SCALE SHOP DRAWING SET INCLUDING ALL INTENDED INSTALLATION METHODS, CONDUIT RUNS, PULL BOXES, AND OTHER PERTINENT INFORMATION.

SITE LIGHTING

THE FOLLOWING SHEETS SHOW LIGHT  
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NAVY FEDERAL  
CREDIT UNION  
HQ2 ATM ADDITION

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VIENNA, VA 22180

**Dewberry**  
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Associated Space Design, Inc. 2024

NO.	DATE	REVISIONS
2	4/20/2025	ADDENDUM 2
1	3/13/2025	ISSUED FOR PERMIT AND PRICING
0	1/24/2025	ISSUED FOR PERMIT AND PRICING
NO.	DATE	REMARKS

DRAWING TITLE:

ELECTRICAL NEW WORK  
PLAN

PROJECT NO.:

50184423

ISSUE DATE:

04.02.25

DRAWN BY:

CB

CHECKED BY:

RH

SHEET NUMBER:

E1.01





Submitted by Chesapeake Lighting

Logo

Job Name:  
(new) NAVY FEDERAL CREDIT UNION -  
HDD CAMPUS DEVELOPMENT

Catalog Number:  
GLEON-AE-02-LED-E1-SL4-BZ-700/  
LS/HSS-BZ

Type:  
H1

Notes:  
PROJECT:16-09077

GLEON GALLEON LED

ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)

2 @ 180°

2 @ 90°

Tri60°

2 @ 120°

Notes: 8 Round poles are 1.8" (30°), Square poles are 1.8" (90°), 2 Round poles are 2.8" (90°).

STANDARD WALL MOUNT

MAST ARM MOUNT

QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)

QUICK Mount Arm (Standard)

GMEA Quick Mount Arm (Extended)

QUICK MOUNT ARM DATA

Number of Light Spheres ^1	^2 Width	Weight with QM Arm (lbs.)	Weight with GMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15.50" (395mm)	39 (15.91 kgs.)	59 (27.27 kgs.)	
5-6	21.50" (536mm)	46 (21.31 kgs.)	69 (25.27 kgs.)	1.11
7-8	27.50" (702mm)	56 (25.45 kgs.)	69 (26.82 kgs.)	

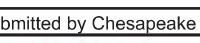

Notes: 1 QM system operates with 1-4 light sphere configurations, 2 GMEA system operates with 1-4 light sphere configurations, 3 GMEA arm to be used when mounting ten fixtures at 90° on a single pole.

Eaton

Eaton  
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<div> <div>  </div> <div>                     Capital Tristate                      REAL ESTATE GROUP OF COMPANIES                 </div> </div>	Created by Chesapeake Lighting																			
	<b>Job Name:</b> (NEW) CAMPUS FEDERAL CREDIT UNION - 1001 CAMPUS DEVELOPMENT																			
	<b>Catalog Number:</b> GLEON-AE-02-LB-ED-E1-SL4-BZ-700/- LS/HS-BZ Notes:																			
<div> <div>  </div> <div>                     GLEON                      PROJECT: 616-6677                 </div> </div>																				
<b>GLEON GALLERY LED</b>																				
<b>NOMINAL POWER AND LUMENS (700MA)</b>																				
Number of Light Equivars	1	2	3	4	5	6	7	8	9	10										
Drive Current	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA										
Nominal Power (Watts)	38	72	105	138	176	210	243	276	314	348										
Input Current @ 120V (A)	0.32	0.65	0.98	1.34	1.68	1.72	2	2.28	2.68	2.86										
Input Current @ 208V (A)	0.21	0.38	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69										
Input Current @ 240V (A)	0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49										
Input Current @ 277V (A)	0.20	0.39	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31										
Optics																				
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	25,093	29,497	32,954										
	80-UG Rating	B1-U-0-G1	B1-U-0-G2	B1-U-0-G2	B1-U-0-G2	B1-U-0-G2	B1-U-0-G2	B1-U-0-G2	B1-U-0-G2	B1-U-0-G2										
T2R	Lumens	4,091	7,995	11,829	15,762	19,525	23,370	27,638	31,316	34,822										
	80-UG Rating	B1-U-0-G1	B1-U-0-G2	B1-U-0-G2	B1-U-0-G3	B1-U-0-G3	B1-U-0-G3	B1-U-0-G3	B1-U-0-G4	B1-U-0-G4										
T3	Lumens	3,828	7,678	11,453	15,130	18,750	22,437	25,834	30,065	33,537										
	80-UG Rating	B1-U-0-G1	B1-U-0-G2	B1-U-0-G2	B1-U-0-G3	B1-U-0-G3	B1-U-0-G3	B1-U-0-G4	B1-U-0-G4	B1-U-0-G5										
T3R	Lumens	4,075	7,941	11,707	15,499	19,196	22,908	27,128	31,703	35,351										
	80-UG Rating	B1-U-0-G1	B1-U-0-G2	B1-U-0-G2	B1-U-0-G3	B1-U-0-G3	B1-U-0-G4	B1-U-0-G4	B1-U-0-G5	B1-U-0-G5										
T4TF	Lumens	3,961	7,720	11,519	15,221	18,866	22,561	26,688	30,240	33,732										
	80-UG Rating	B1-U-0-G1	B1-U-0-G2	B1-U-0-G2	B1-U-0-G3	B1-U-0-G4	B1-U-0-G4	B1-U-0-G5	B1-U-0-G5	B1-U-0-G5										
T4W	Lumens	3,905	7,645	11,421	15,124	18,615	22,370	25,343	29,569	32,796										
	80-UG Rating	B1-U-0-G1	B1-U-0-G2	B1-U-0-G2	B1-U-0-G3	B1-U-0-G4	B1-U-0-G4	B1-U-0-G5	B1-U-0-G5	B1-U-0-G5										
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,688	29,447	32,847										
	80-UG Rating	B1-U-0-G1	B1-U-0-G2	B1-U-0-G3	B1-U-0-G3	B1-U-0-G3	B1-U-0-G4	B1-U-0-G4	B1-U-0-G5	B1-U-0-G5										
	Lumens	3,867	7,673	11,421	15,131	18,747	22,546	26,531	30,661	33,533										
	80-UG Rating	B1-U-0-G1	B1-U-0-G2	B1-U-0-G3	B1-U-0-G3	B1-U-0-G3	B1-U-0-G4	B1-U-0-G4	B1-U-0-G5	B1-U-0-G5										
SL3	Lumens	3,731	7,292	10,880	14,378	17,872	21,375	25,208	28,562	31,881										
	80-UG Rating	B1-U-0-G2	B1-U-0-G2	B1-U-0-G3	B1-U-0-G4	B1-U-0-G4	B1-U-0-G4	B1-U-0-G5	B1-U-0-G5	B1-U-0-G5										
SL4	Lumens	4,051	7,916	11,811	15,686	19,395	23,199	26,907	30,957	34,594										
	80-UG Rating	B1-U-0-G1	B1-U-0-G2	B1-U-0-G2	B1-U-0-G3	B1-U-0-G3	B1-U-0-G3	B1-U-0-G4	B1-U-0-G4	B1-U-0-G4										
SMO	Lumens	4,125	8,082	12,039	15,994															

- \*HEIGHT OF FIXTURE TO MATCH EXISTING (NOT TO EXCEED 15' - 0")
- \*ALL LIGHTING FIXTURES ARE TO BE DIMMABLE
- \*EXISTING POLE LIGHTING IS 3500K (COLOR TEMP)

**Eaton**  
Powering Business Worldwide

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**EXISTING POLE LIGHT(~10' - 0")**





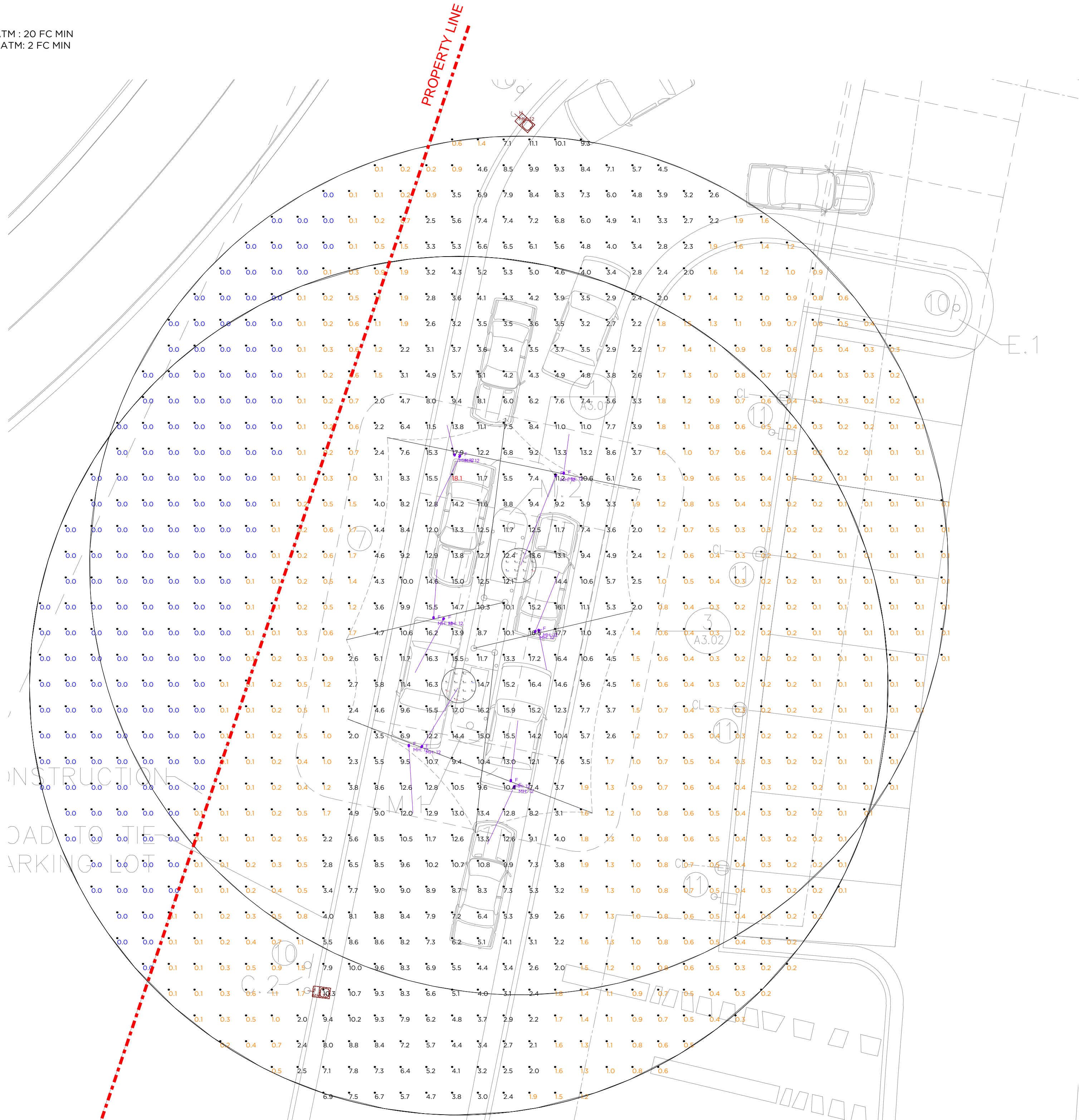


Luminaire Schedule									
Symbol	Qty	Label	Arrangement	[MANUFAC]	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	2	H	Single	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON (FORMERLY EATON)	GLEON-AE-02-LED-EI-SL4-BZ-700-HSS	0.900	9489	85	170
	12	F	Single	B-K Lighting INC	DE-LED-TR-X125-WFL-9-C-PROTOTYPE(4000K)	0.900	1627	21.7766	261.319

Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	PtSpcLr	Grid Z
ATM 1 - 2FT RADIUS ZONE	Illuminance	Fc	13.43	14.3	12.5	1.07	1.14	1	O
ATM 2 - 2FT RADIUS ZONE	Illuminance	Fc	16.45	17.2	15.2	1.08	1.13	1	O
ATM ZONE	Illuminance	Fc	2.96	18.1	0.0	N.A.	N.A.	3	O
ATM 1 - 50FT RADIUS ZONE	Illuminance	Fc	3.52	18.1	0.0	N.A.	N.A.		
ATM 2 - 50FT RADIUS ZONE	Illuminance	Fc	3.52	18.1	0.0	N.A.	N.A.		

NOTES:  
- WHEN THE LLF IS NOT 0.9 OR 1.0 THEN THE WATTAGE INFORMATION WILL NOT BE CORRECT  
- FIXTURE LOCATIONS AS PROPOSED  
- FIXTURE GLARE HAS NOT BEEN FACTORED INTO THE LAYOUT CONSIDERATION  
- EXSITING AREA FIXTURES ARE ON 7" ARMS AS SPECIFIED

TARGET:  
ATM  
- WITHIN 2' OF ATM : 20 FC MIN  
- WITHIN 50' OF ATM: 2 FC MIN



PHOTOMETRY  
Scale: 1 inch= 8 Ft.

FOOTCANDLE STUDY

**- CANOPY LIGHTING FIXTURES ARE DIRECTED DOWN, NOT UP**  
**- INCLUDES EXISTING LIGHT POLES ON SITE**



Disclaimer:  
SESCO Lighting provides this photometric report for purposes of comparison within the SESCO Lighting product line only. The information provided is based on standardized industry procedures.  
This laboratory performance will always differ from that observed in the field due to a great number of variables, both known and unknown (installation methods, power quality, lamping, recoverable and non-recoverable light loss factors, etc.)  
In general, SESCO Lighting considers numerical studies to be predictive in that they cannot characterize the visual performance of any luminaire, single or grouped. As such, specification decisions must be thoroughly based upon experience, consultation with the manufacturer and, above all, common sense.

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Office: Atlanta, GA

Contact No: (770) 449-7045

Processed By: J.Garner



Filename: 01-27-2025 NAVY FEDERAL CREDIT UNION ATMS.AGI

Navy Federal Credit Union  
ATM Addition

Date:6/3/2025

Page 1 of 1

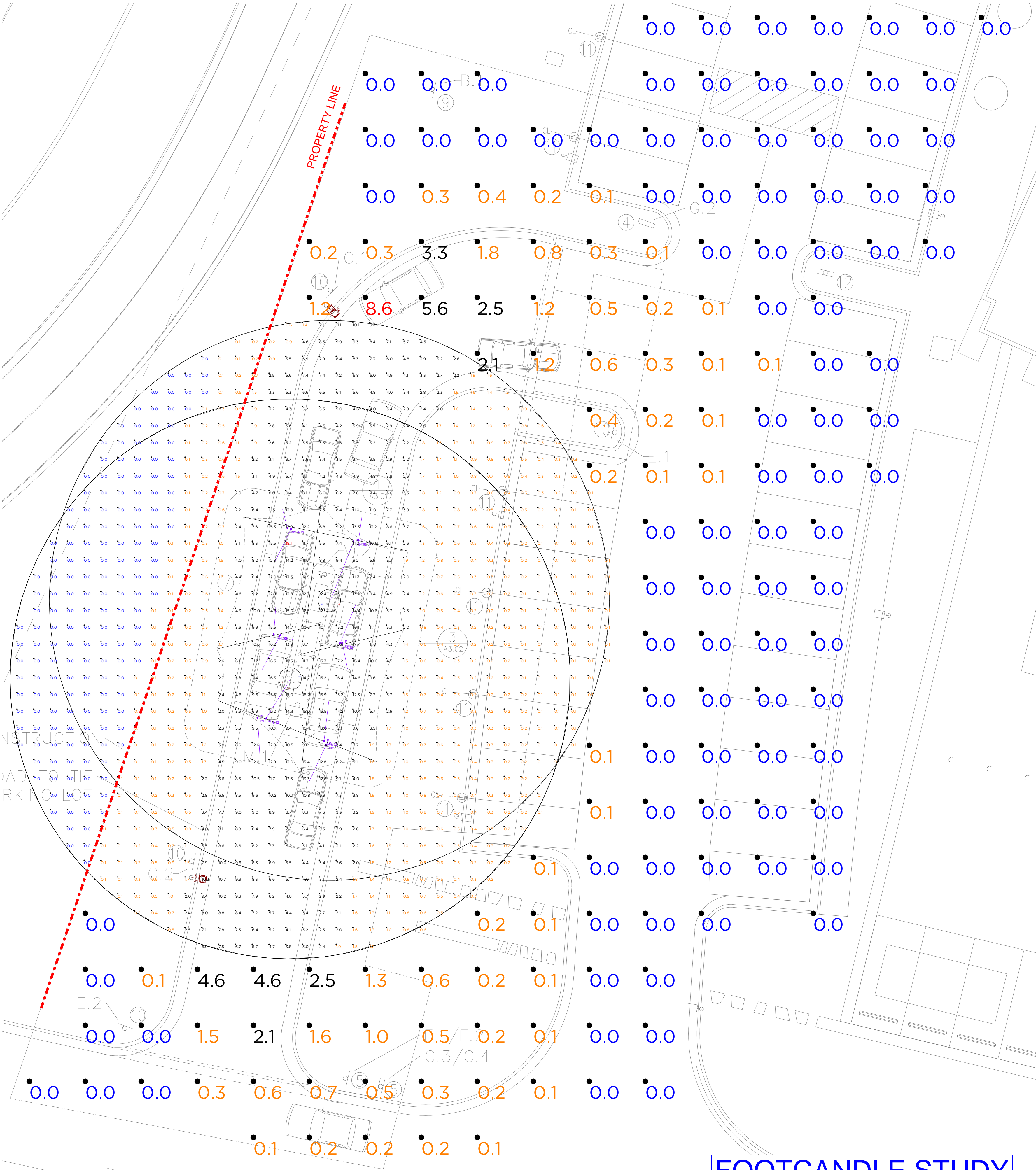


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Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	PtSpclr	Grid Z
ADDITIONAL SITE	illumiance	Fc	0.35	8.6	0.0	N.A.	N.A.	10	0
ATM 1 - 2FT RADIUS ZONE	illumiance	Fc	13.43	14.3	12.5	1.07	1.14	1	0
ATM 2 - 2FT RADIUS ZONE	illumiance	Fc	16.45	17.2	15.2	1.08	1.13	1	0
ATM ZONE	illumiance	Fc	2.96	18.1	0.0	N.A.	N.A.	3	0
ATM 1 - 50FT RADIUS ZONE	illumiance	Fc	3.52	18.1	0.0	N.A.	N.A.		
ATM 2 - 50FT RADIUS ZONE	illumiance	Fc	3.52	18.1	0.0	N.A.	N.A.		


NOTES:  
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- EXISTING AREA FIXTURES ARE ON 7' ARMS AS SPECIFIED

TARGET:  
ATM  
- WITHIN 2' OF ATM: 20 FC MIN  
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Scale: 1 inch= 10 Ft.

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**- INCLUDES EXISTING LIGHT POLES ON SITE AND EXTENTS**



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Filename: 01-27-2025 NAVY FEDERAL CREDIT UNION ATMS.AGI

Navy Federal Credit Union  
ATM Addition

Date:6/3/2025  
Page 1 of 1







ABBREVIATIONS

A	AASHTO	AREA OR ARC AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	M	M	MONUMENT FOUND
AC	ACRE		MECH	MECH	MECHANICAL
ACC	ACCESS DOOR		MI	MI	MILE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE		MS	MS	MEDIAN STRIP
ARCH	ARCHITECTURAL		MSL	MSL	MEAN SEA LEVEL
ASPH	ASPHALT		MIN	MIN	MINIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS		MAX	MAX	MAXIMUM
B	BB	BOTTOM OF LINE	N	N/F	NOW OR FORMERLY
BC	BF	BOTTOM OF CURB	NFA	NFA	NET FLOOR AREA
BLD	BUILDING		NBL	NBL	NORTH BOUND LANE
BLDG	BUILDING				
BM	BENCHMARK				
BOV	BLOW OFF VALVE				
BRK	BRICK				
BRL	BUILDING RESTRICTION LINE				
BW	BOTTOM OF WALL				
C	C	COEFFICIENT OF RUNOFF			
CATV	CABLE TELEVISION				
CC	CENTER TO CENTER				
CFS (Q)	CUBIC FEET PER SECOND				
CH	CHORD				
CG	CURB AND GUTTER				
CIP	CAST IRON PIPE				
CL	CENTERLINE				
CON	CONCRETE PAD				
CONC	CONCRETE				
CO	CLEAN OUT				
CONT.	CONTINUATION				
CS	CURB STOP				
CSP	CONCRETE STOOP				
CSW	CONCRETE SIDEWALK				
CT	COURT				
CN	(RUNOFF) CURVE NUMBER				
D	d	DEPTH			
DA	DRAINAGE AREA				
DB	DEED BOOK				
DETL	DETAIL				
DI	DROP INLET				
DIP	DUCTILE IRON PIPE				
DOM	DOMESTIC				
DR	DRIVE				
DTL	DETAIL				
DWA	ASPHALT DRIVEWAY				
DWC	CONCRETE APRON				
DWG	DRAWING				
D/W	DRIVE WAY				
△	DELTA				
E	E	RATE OF SUPERELEVATION IN FEET PER FOOT			
EC	EROSION CONTROL				
ESMT	EASEMENT				
EG	EDGE OF GUTTER				
ELEV	ELEVATION				
EP	EDGE OF PAVEMENT				
ES	END SECTION				
EW	END WALL				
EX	EXISTING				
EXIST	EXISTING				
ELEC	ELECTRICAL				
EBL	EAST BOUND LANE				
F	F	FIRE LINE			
FAR	FLOOR AREA RATIO				
FC	FACE OF CURB				
FDC	FIRE DEPARTMENT CONNECTION (SAMESE)				
FW	FAIRFAX WATER				
FF	FIRST FLOOR				
FFE	FINISHED FLOOR ELEVATION				
FG	FINISHED GRADE				
FH	FIRE HYDRANT				
FP	FLOOD PLAIN				
FCPA	FAIRFAX COUNTY PARK AUTHORITY				
FOY	FOYER				
FPS	FEET PER SECOND				
FT	FEET				
G	G	GAS			
GF	GARAGE FLOOR				
GFA	GROSS FLOOR AREA				
Gr.	GRADE				
GR	GUARD RAIL				
H	HC	HANDICAPPED PARKING SPACE			
HCL	HYDRAULIC GRADE LINE				
HP	HIGH POINT				
HR	HAND RAIL				
HT	HEIGHT				
I	I	RAINFALL INTENSITY			
ID	INCH				
IN	INCH				
INV	INVERT				
IP	IRON PIPE				
IPF	IRON PIPE FOUND				
IPS	IRON PIPE SET				
J	JB	JUNCTION BOX			
K	K	SIGHT DISTANCE COEFFICIENT			
L	L	LENGTH			
LAT	LATERAL				
LL	LOWER LEVEL				
LP	LOW POINT				
LS	LOADING SPACE				
LCG	LIMITS OF CLEARING & GRADING				

LEGEND

ADDITIONAL LEGEND INFORMATION PROVIDED ON APPLICABLE SHEETS

PROPOSED IMPROVEMENTS BY OTHERS	---
EXISTING INTERMEDIATE CONTOUR	---B6---
EXISTING CONTOUR INDEX	---200---
PROPOSED CONTOUR	---B6---
EXISTING EDGE OF PAVEMENT	EX. E.P.
PROPOSED EDGE OF PAVEMENT	PROP. E.P.
PROPOSED HEADER CURB	---
EXISTING CURB	---
PROPOSED CURB & GUTTER	CG-6
PROPOSED CG-6	CG-6 CG-6R
TRANSITION FROM CG-6 TO CG-6R	---
EXISTING WATERLINE W/TEE	W
PROPOSED WATERLINE W/TEE	W
EXISTING TELEPHONE LINE	T
PROPOSED TELEPHONE LINE	T
EXISTING STORM SEWER	SS
PROPOSED STORM SEWER	SS
EXISTING SANITARY SEWER	SS
PROPOSED SANITARY SEWER	SS
EXISTING ELECTRIC SERVICE	E
PROPOSED ELECTRIC SERVICE	E
EXISTING GAS LINE	G
PROPOSED GAS LINE	G
PROPERTY LINE	---
EASEMENT LINE	---
CENTER LINE	10+00 11+00

LIMITS OF CLEARING & GRADING	±12.0
EXISTING SPOT ELEVATIONS	+12.0
PROPOSED SPOT ELEVATION	+12.0
EXISTING TREE LINE	12" DIM.
EXISTING TREE W/TRUNK DIAMETER	12" DIM.
EXISTING TREE W/DRIPLINE	12" DIM.
PROPOSED TREE	12" DIM.
FLOW LINE OF SWALE	---
FENCE LINE	---
EXISTING UTILITY POLE	---
PROPOSED UTILITY POLE	---
EXISTING FIRE HYDRANT	---
PROPOSED FIRE HYDRANT	---
EXISTING WATER VALVE	---
PROPOSED WATER VALVE	---
WATER METER (SINGLE & DOUBLE)	---
STREET SIGN (SEE SIGNAGE PLAN)	---

PARKING INDICATOR	---
INDICATES THE NUMBER OF PARKING SPACES	---
TEST PIT	---
EXISTING STREET LIGHT	---
PROPOSED STREET LIGHT	---
PROPOSED TRAFFIC SIGNAL (APPROX. LOCATIONS)	---

GENERAL NOTES

ADDITIONAL DESIGN AND CONSTRUCTION NOTES ARE PROVIDED IN APPLICABLE SECTIONS.

- ALL CONSTRUCTION SHALL CONFORM TO TOWN OF VIENNA AND VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE MOST CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED TO, ENVIRONMENTAL PROTECTION AGENCY (EPA), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), VIRGINIA OCCUPATIONAL AND SAFETY HEALTH COMPLIANCE PROGRAM (VOSH ENFORCEMENT), VIRGINIA OVERHEAD HIGH VOLTAGE LINE SAFETY ACT, NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS), AND NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH).
- WHEN DURING THE COURSE OF CONSTRUCTION, ANY OBJECT OF AN UNUSUAL NATURE IS ENCOUNTERED, THE CONTRACTOR SHALL CEASE WORK IN THAT AREA AND IMMEDIATELY NOTIFY THE PROPER AUTHORITY, TOWN OF VIENNA AND/OR THE ARCHITECT/ENGINEER.
- THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. IF DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHOULD ENCOUNTER UTILITIES OTHER THAN IN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND TAKE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
- ALL UTILITIES WHICH WILL BE PLACED UNDER EXISTING PUBLIC STREETS SHALL BE BORED OR JACKED, UNLESS PERMISSION TO OPEN CUT IS OBTAINED FROM VDOT.
- CONTROLLED FILLS MUST BE COMPACTED TO 95% AS DETERMINED PER STANDARD PROCTOR AASHTO T-99 OR ASTM D 698. DENSITY MUST BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER AND THE RESULTS SUBMITTED TO TOWN OF VIENNA PRIOR TO FOOTING CONSTRUCTION.
- ALL FILL SOILS UNDER EXPANDED PAVED AREAS SHALL BE COMPACTED TO 95% OF THEORETICAL MAXIMUM DENSITY AS DETERMINED BY ASTM SPECIFICATION D-698 STANDARD PROCTOR METHOD, WITHIN + OR - 2% OF OPTIMUM MOISTURE FOR THE FULL WIDTH OF ANY DEDICATED RIGHT-OF-WAY AND ALL PARKING LOTS, PRIVATE STREETS, PARKING AREAS, CURB AND GUTTER, AND SIDEWALKS ADJACENT TO STREETS AND PARKING LOTS (NOT INTENDED TO INCLUDE LEADWALKS), WITH UPPER 1.0 FT. COMPACTED TO 100% OF THE MAXIMUM DRY DENSITY PER ASTM D-698.
- ALL STREET CUT AND PATCH WORK IN PUBLIC RIGHT-OF-WAY REQUIRED FOR UTILITIES INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH TOWN OF VIENNA AND VDOT STANDARDS AND SPECIFICATIONS.
- A SMOOTH GRADE SHALL BE MAINTAINED FROM EDGE OF PAVEMENT OF EXISTING ROAD TO PROPOSED CURB AND GUTTER AND/OR PROPOSED PAVEMENT TO PRECLUDE THE FORMING OF FALSE GUTTERS AND/OR THE PONDING OF ANY WATER ON THE ROADWAY. REMOVE AND RECONSTRUCT EXISTING PAVEMENT AND/OR CURB AS DICTATED BY FIELD CONDITIONS TO PROVIDE POSITIVE DRAINAGE AT TIE-IN POINTS.
- PROPOSED SIDEWALKS MUST BE CONSTRUCTED WITH U3 UNDERDRAINS WHEN LONGITUDINAL GRADES ARE 3% OR GREATER UNLESS SOIL TEST CONFIRM THAT THEY ARE NOT NEEDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION (APPLIES TO SIDEWALK IN RIGHT-OF-WAY ONLY).
- THE DEVELOPER WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STREET AND UTILITIES WHICH OCCURS AS A RESULT OF HIS CONSTRUCTION PROJECT WITHIN OR CONTIGUOUS TO THE EXISTING RIGHT-OF-WAY.
- COMPACTION OF BACKFILL IN UTILITY TRENCHES SHALL BE IN ACCORDANCE WITH TOWN OF VIENNA & V.D.O.T. STANDARDS & SPECIFICATIONS.
- TO THE BEST OF OUR KNOWLEDGE THERE ARE NO GRAVE SITES OR BURIAL PLOTS ON THIS PROPERTY.
- THERE ARE NO DOWNSTREAM IMPOUNDMENTS IN THE INFLUENCE AREA OF THE PROPOSED DEVELOPMENT.
- THIS PLAN COMPLIES FULLY WITH THE AMENDED CHESAPEAKE BAY PRESERVATION ORDINANCE PER THE JULY 7, 2003 BOARD POLICY FOR THE TREATMENT OF APPROVED AND PENDING PLANS OF DEVELOPMENT, WITH AN EFFECTIVE DATE OF NOVEMBER 18, 2003 AND WITH REVISIONS ADOPTED BY THE BOARD WITH AN EFFECTIVE DATE OF JULY 12, 2005.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL. THE DEVELOPER SHALL SUBMIT A SIGNING, STRIPING AND/OR SIGNALIZATION PLAN TO THE VDOT LAND DEVELOPMENT SECTION A MINIMUM OF 30 DAYS PRIOR TO PERMIT APPLICATION. THE DEVELOPER SHALL NOT COMMENCE CONSTRUCTION OF ANY PAVEMENT COURSE WITHOUT AN APPROVED STRIPING PLAN.
- ALL RETAINING WALLS 3' AND GREATER IN HEIGHT REQUIRE A SEPARATE BUILDING PERMIT.
- ALL ROOF DRAINS AND NON-STANDARD PIPE WILL BE CONSTRUCTED UNDER A SEPARATE PLUMBING PERMIT PER IBC INTERNATIONAL PLUMBING CODE.
- LIGHTING FOR THIS PROJECT SHALL BE IN COMPLIANCE WITH TOWN OF VIENNA CODE OF ORDINANCE, CHAPTER 18, ARTICLE 5A, DIVISION 4 LIGHTING. ALL EXTERIOR LIGHTING FIXTURES PROPOSED WITH THIS PLAN SHALL BE FULL CUT-OFF OR DIRECTIONALLY SHIELDED TYPES.
- ALL ADA ACCESSIBILITY IMPROVEMENTS PROPOSED SHOWN ON THIS PLAN, INCLUDING BUT NOT LIMITED TO PARKING SPACES, AISLES, ROUTES, AND SLOPES, COMPLY WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE 2012 USBC.

TOWN OF VIENNA GENERAL NOTES

- A PRE-CONSTRUCTION MEETING MUST BE HELD PRIOR TO THE START OF CONSTRUCTION. CALL 703-255-6384 TO SCHEDULE THE PRE-CONSTRUCTION MEETING.
- ALL CONSTRUCTION GENERATED DEBRIS MUST BE HAULED AWAY BY THE CONTRACTOR OR OWNER.
- PRIOR TO THE REMOVAL OF ANY TOWN TREES (TREES WITHIN THE RIGHT OF WAY), THE APPLICANT OR THEIR REPRESENTATIVE SHALL CONTACT THE TOWN OF VIENNA ARBORIST AT 703-255-6360 TO COORDINATE HAVING THE TOWN ARBORIST ONSITE DURING ALL TOWN TREE REMOVAL.
- TREE PROTECTION FOR ANY TOWN TREE, AS SHOWN ON PLAN, MUST BE INSTALLED PRIOR TO ANY SITE WORK.
- IT IS UNLAWFUL TO PERFORM ANY CONSTRUCTION ABOVE FOUNDATION CORNERS PRIOR TO APPROVAL OF SETBACKS. WORK COMPLETED IN VIOLATION OF THIS REQUIREMENT IS SUBJECT TO DEMOLITION.
- ALL DUMPSTERS/PODS ARE TO BE PLACED ON PRIVATE PROPERTY.
- FRONT ELEVATION CHECKS ARE REQUIRED.
- WALL CHECK SURVEYS ARE REQUIRED AND MUST BE SUBMITTED PRIOR TO CONSTRUCTION ABOVE FOUNDATION CORNERS.
- A CERTIFICATE OF OCCUPANCY IS REQUIRED PRIOR TO OCCUPANCY. ALL REQUIRED DOCUMENTATION AND INSPECTIONS MUST BE SUBMITTED/COMPLETED BEFORE THE TOWN OF VIENNA WILL ISSUE A CERTIFICATE OF OCCUPANCY.
- EXISTING SANITARY SEWER LATERALS ARE TYPICALLY CAPPED AT OR NEAR THE PROPERTY LINE. THE REUSE OF THE PORTION OF THE EXISTING SANITARY SEWER LATERAL BETWEEN THE TOWN OWNED SEWER MAIN AND THE CAPPED END MAY BE ALLOWED PROVIDING THAT A LICENSED PLUMBER CERTIFIES THAT THE EXISTING PIECE OF PIPE IS GRADED PROPERLY AND IN LIKE NEW CONDITION. THE REUSE OF A PORTION OF THE EXISTING LATERAL DOES NOT IMPLY THAT THE TOWN IS WARRANTING THE CONDITION IN ANY WAY.

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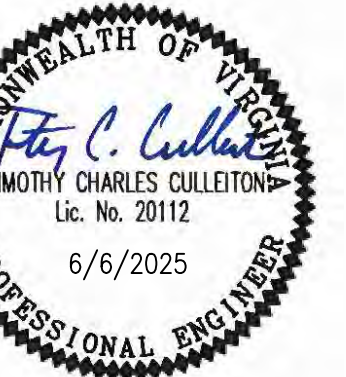
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NO.	DATE	REVISIONS
2	6/6/2025	SITE PLAN REVIEW
1	TBD	AS1 01
0	1/24/2025	ISSUED FOR PERMIT AND PRICING
NO.	DATE	REMARKS

DRAWING TITLE:  
ABBREVIATIONS NOTES  
AND LEGEND

PROJECT NO.:  
50184423  
ISSUE DATE:  
25.06.06  
DRAWN BY:  
CHECKED BY:

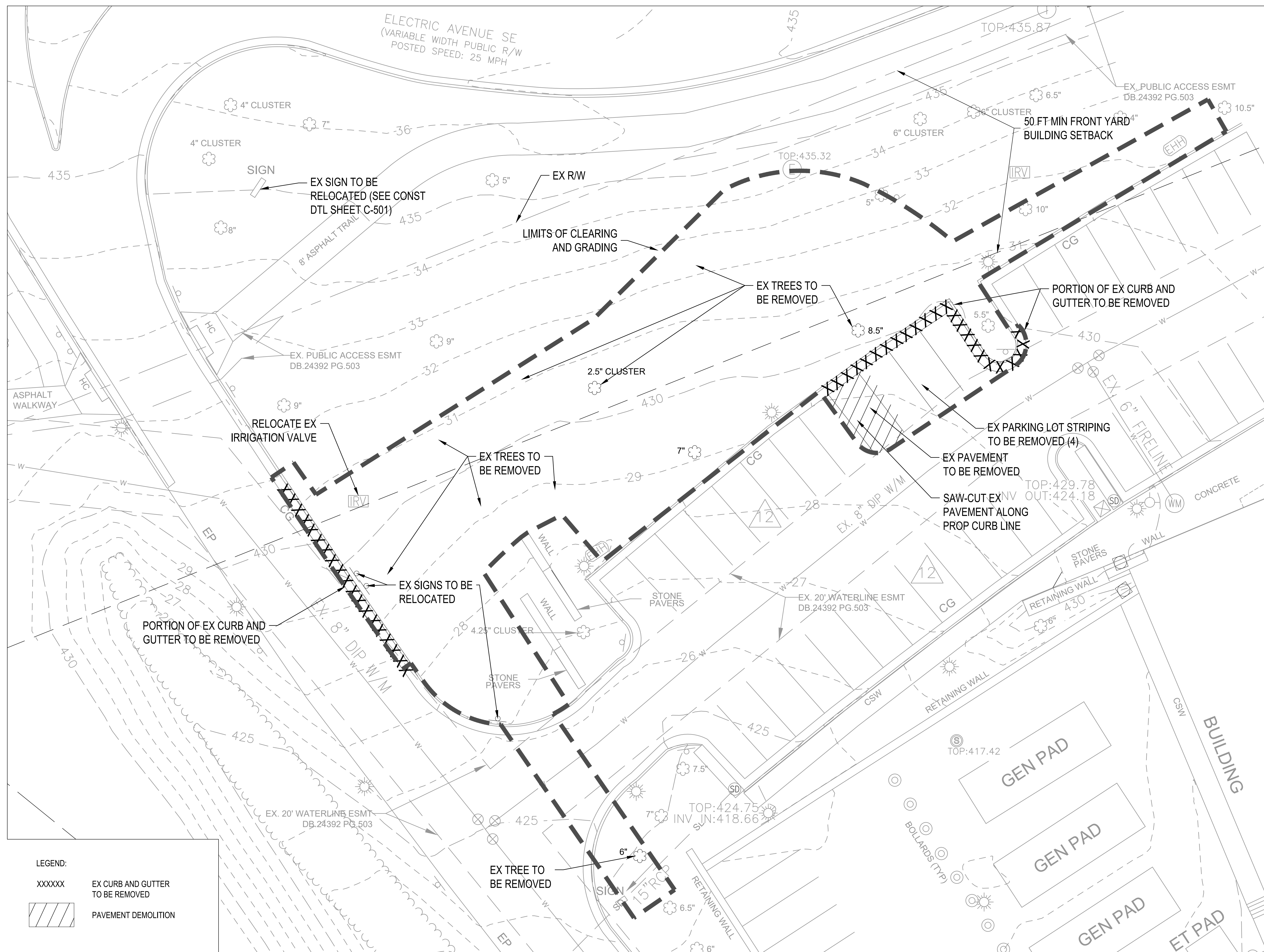
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C-002

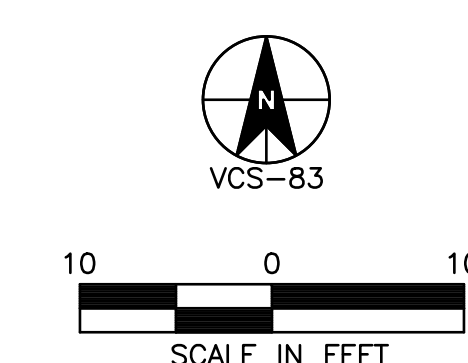








LEGEND:  
XXXXXX EX CURB AND GUTTER TO BE REMOVED  
PAVEMENT DEMOLITION



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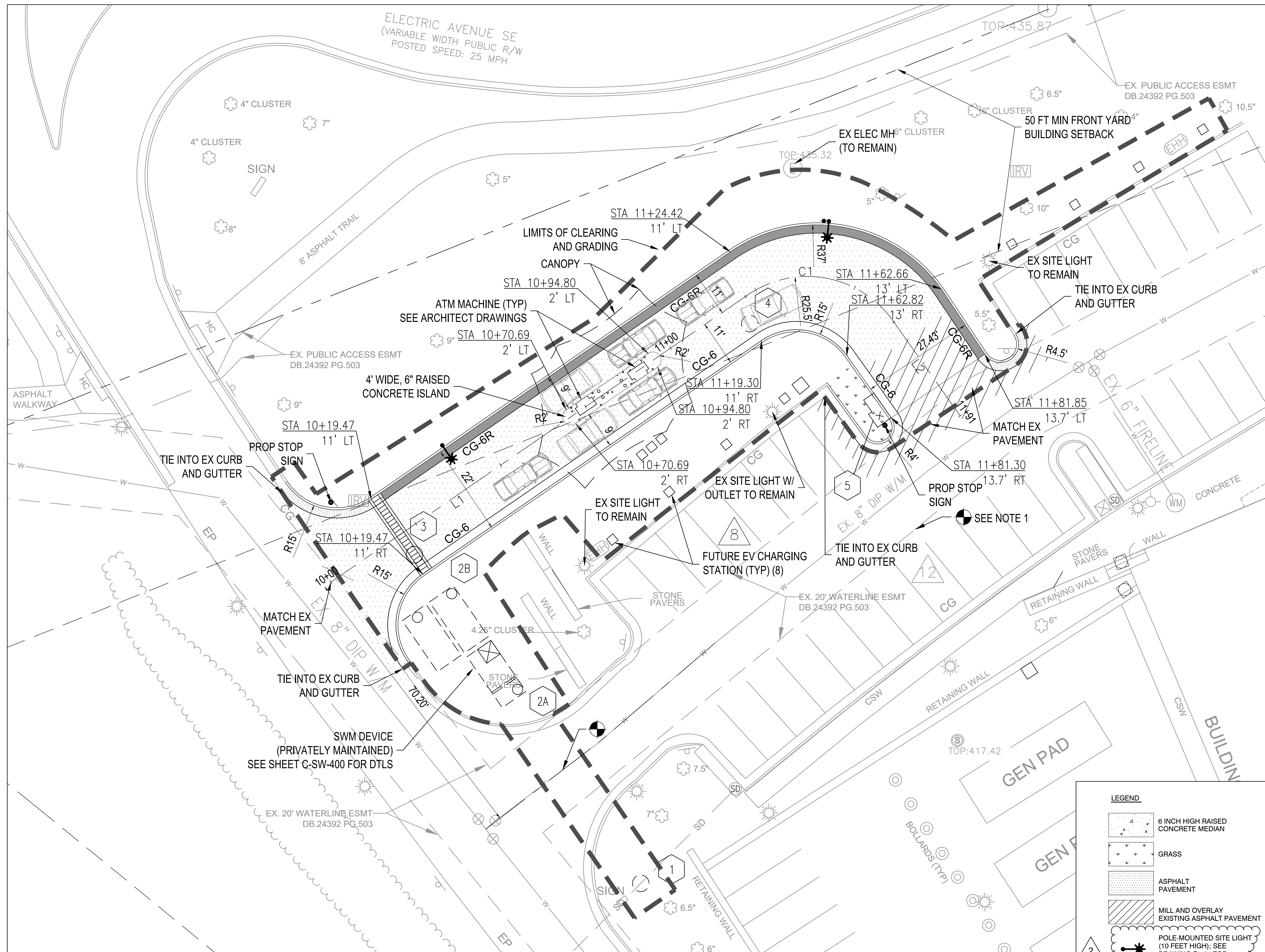
REVISIONS		REMARKS
2	6/6/2025	SITE PLAN REVIEW
1	TBD	ASD 01
0	1/24/2025	ISSUED FOR PERMIT AND PRICING
NO.	DATE	REMARKS

DRAWING TITLE:  
EXISTING CONDITIONS AND DEMO PLAN

PROJECT NO.: 50184423	ISSUE DATE: 25.06.06
DRAWN BY:	CHECKED BY:

SHEET NUMBER:  
C-101



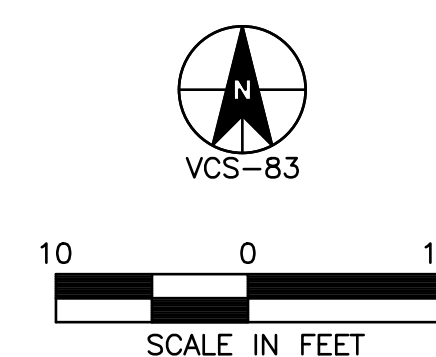


NOTE:

- CONTRACTOR SHALL TEST PIT EXISTING 8-INCH DIP WATERMAIN PRIOR TO INSTALLATION OF ELECTRICAL CONDUIT BY DIRECTIONAL BORE. TARGET FOR DIRECTIONAL BORE 4.5 FEET ABOVE SERVICE YARD SLAB.

LEGEND

- 6 INCH HIGH RAISED CONCRETE MEDIAN
- GRASS
- ASPHALT PAVEMENT
- MILL AND OVERLAY EXISTING ASPHALT PAVEMENT
- POLE-MOUNTED SITE LIGHT (10 FEET HIGH); SEE DRAWING E1.01 FOR DETAILS



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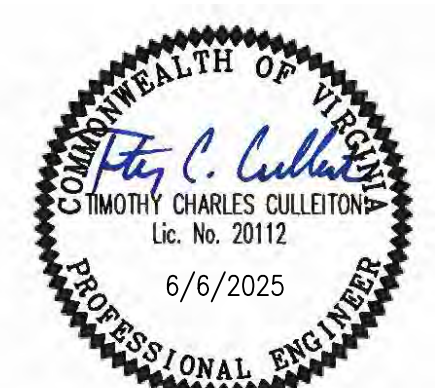
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Associated Space Design, Inc. 2024

REVISIONS		DATE	REMARKS
2	6/6/2025		SITE PLAN REVIEW
1	TBD		AS 01
0	1/24/2025		ISSUED FOR PERMIT AND PRICING
NO.	DATE		REMARKS

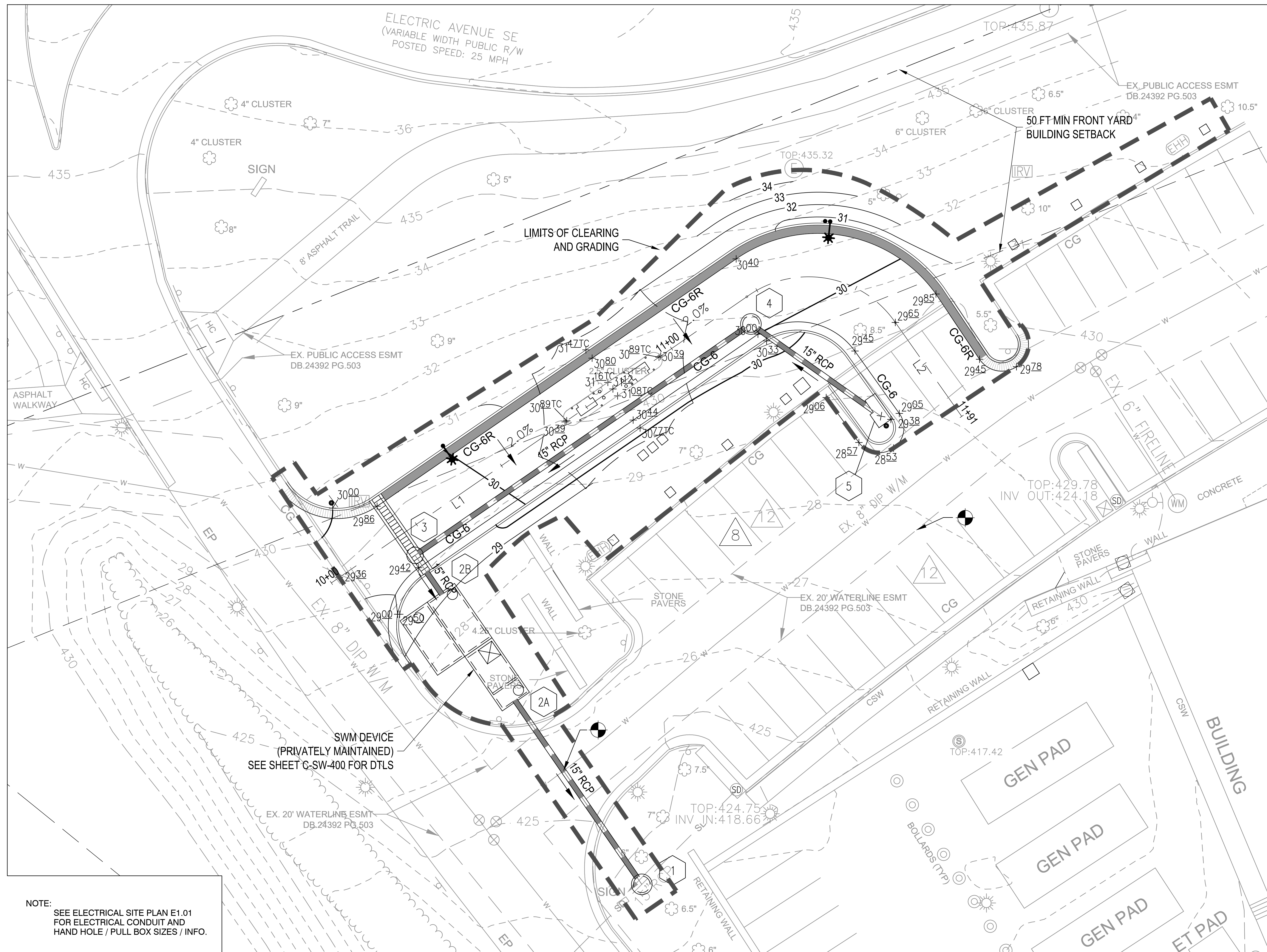
DRAWING TITLE:  
SITE PLAN

PROJECT NO.:  
50184423  
ISSUE DATE:  
25.06.06  
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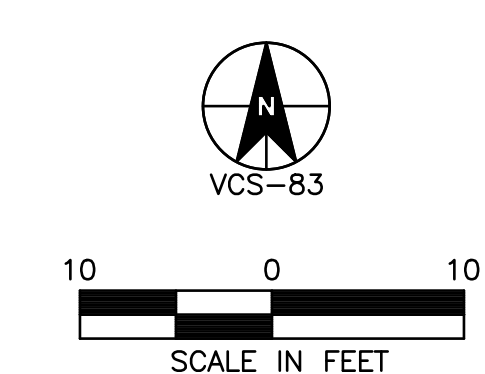
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C-102





NOTE:  
SEE ELECTRICAL SITE PLAN E1.01  
FOR ELECTRICAL CONDUIT AND  
HAND HOLE / PULL BOX SIZES / INFO.



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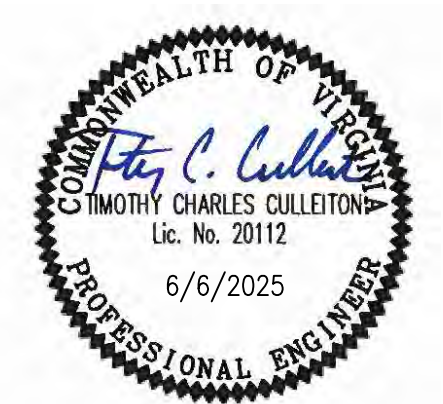
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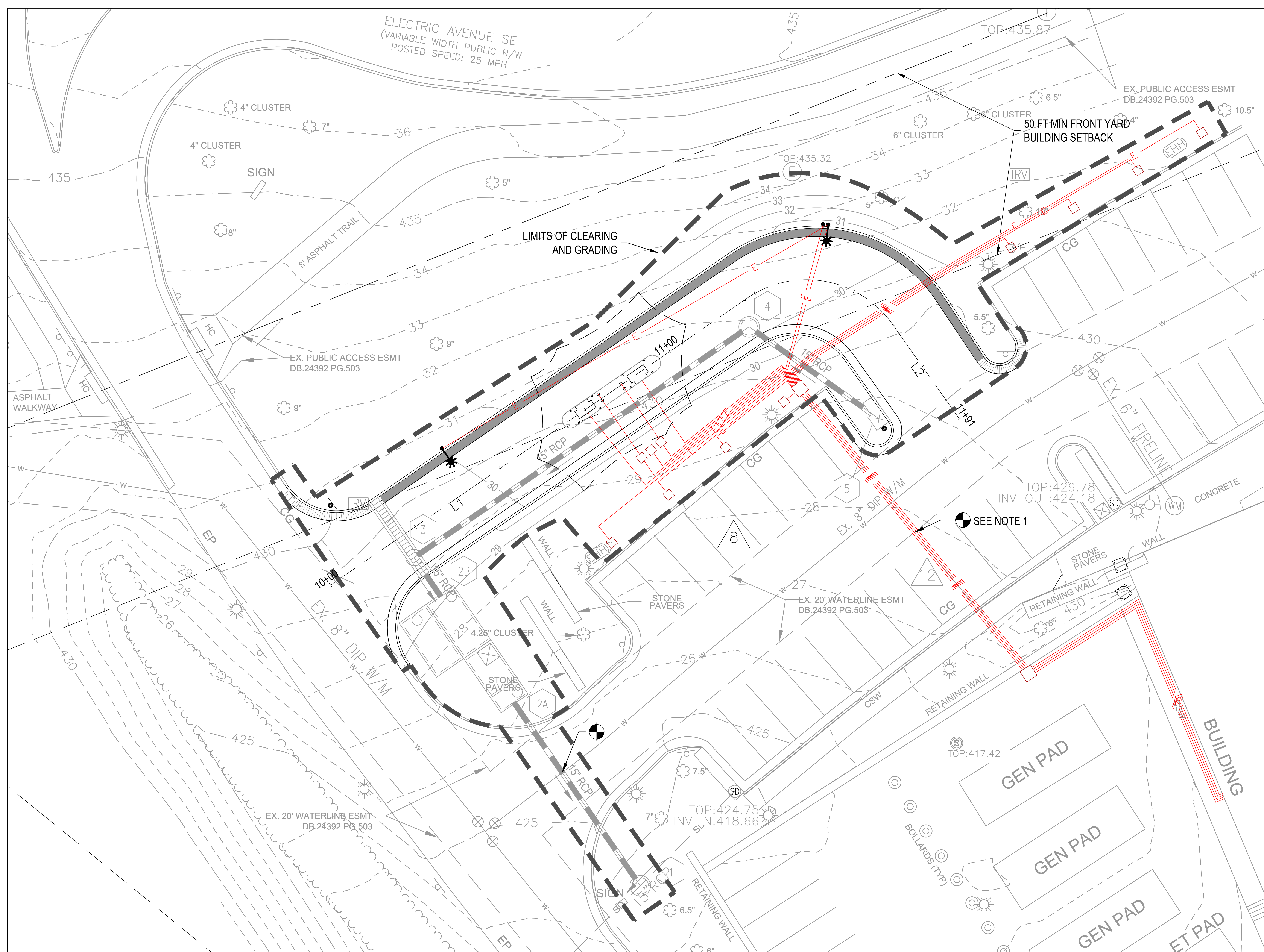
REVISIONS		REMARKS
2	6/6/2025	SITE PLAN REVIEW
1	TBD	ASD 01
0	1/24/2025	ISSUED FOR PERMIT AND PRICING
NO.	DATE	REMARKS

DRAWING TITLE:  
GRADING AND DRAINAGE  
PLAN

PROJECT NO:	ISSUE DATE:
50184423	25.06.06
DRAWN BY:	CHECKED BY:

SHEET NUMBER:  
C-103





**NOTE:**

1. CONTRACTOR SHALL TEST PIT EXISTING 8-INCH DIP WATERMAIN PRIOR TO INSTALLATION OF ELECTRICAL CONDUIT BY DIRECTIONAL BORE. TARGET FOR DIRECTIONAL BORE 4.5 FEET ABOVE SERVICE YARD SLAB.

2. REFER TO DRAWING E1.01 FOR ELECTRICAL DETAILS

**LEGEND**

— E — PROP UNDERGROUND ELECTRIC LINE

— W — EX UNDERGROUND WATERMAIN

□ 2 PROP ELECTRIC HANDHOLE

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REVISIONS		REMARKS
2	6/6/2025	SITE PLAN REVIEW
1	TBD	AS 01
0	1/24/2025	ISSUED FOR PERMIT AND PRICING
NO.	DATE	REMARKS

DRAWING TITLE:  
**UTILITY PLAN**

PROJECT NO.:  
**50184423**

ISSUE DATE:  
**25.06.06**

DRAWN BY:

CHECKED BY:

SHEET NUMBER:  
**C-104**

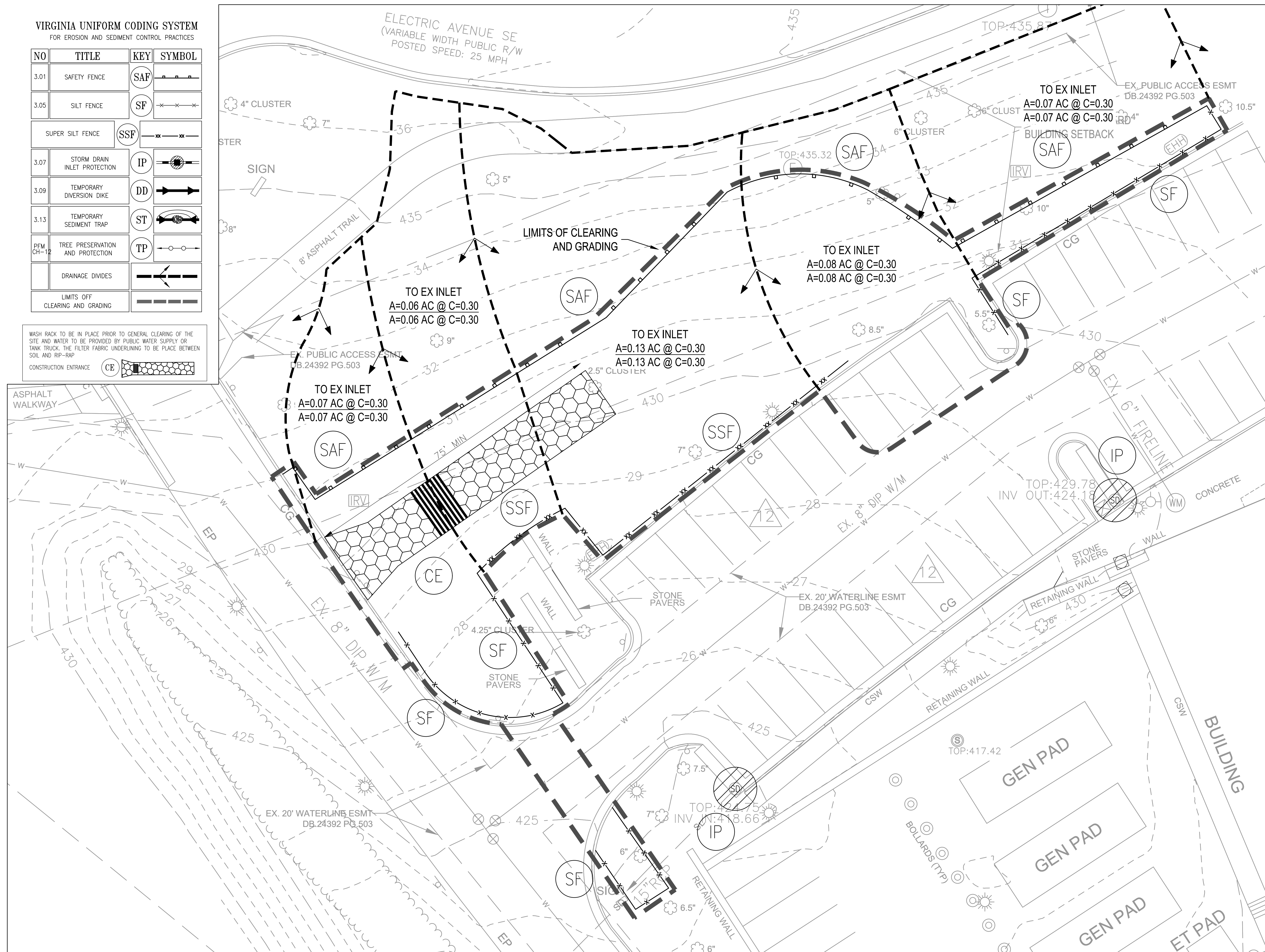


VIRGINIA UNIFORM CODING SYSTEM  
FOR EROSION AND SEDIMENT CONTROL PRACTICES

NO	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SAF	
3.05	SILT FENCE	SF	
	SUPER SILT FENCE	SSF	
3.07	STORM DRAIN INLET PROTECTION	IP	
3.09	TEMPORARY DIVERSION DIKE	DD	
3.13	TEMPORARY SEDIMENT TRAP	ST	
PM	TREE PRESERVATION AND PROTECTION	TP	
	DRAINAGE DIVIDES		
	LIMITS OFF CLEARING AND GRADING		

WASH RACK TO BE IN PLACE PRIOR TO GENERAL CLEARING OF THE SITE AND WATER TO BE PROVIDED BY PUBLIC WATER SUPPLY OR TANK TRUCK. THE FILTER FABRIC UNDERLINING TO BE PLACED BETWEEN SOIL AND RIP-RAP.

CONSTRUCTION ENTRANCE



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Associated Space Design, Inc. 2024

NO.	DATE	REVISIONS
2	6/6/2025	SITE PLAN REVIEW
1	TBD	ASD 01
0	1/24/2025	ISSUED FOR PERMIT AND PRICING
NO.	DATE	REMARKS

DRAWING TITLE:  
EROSION & SEDIMENT  
CONTROL PHASE I

PROJECT NO.:  
50184423

ISSUE DATE:  
25.06.06

DRAWN BY:  
CHECKED BY:

SHEET NUMBER:

C-201

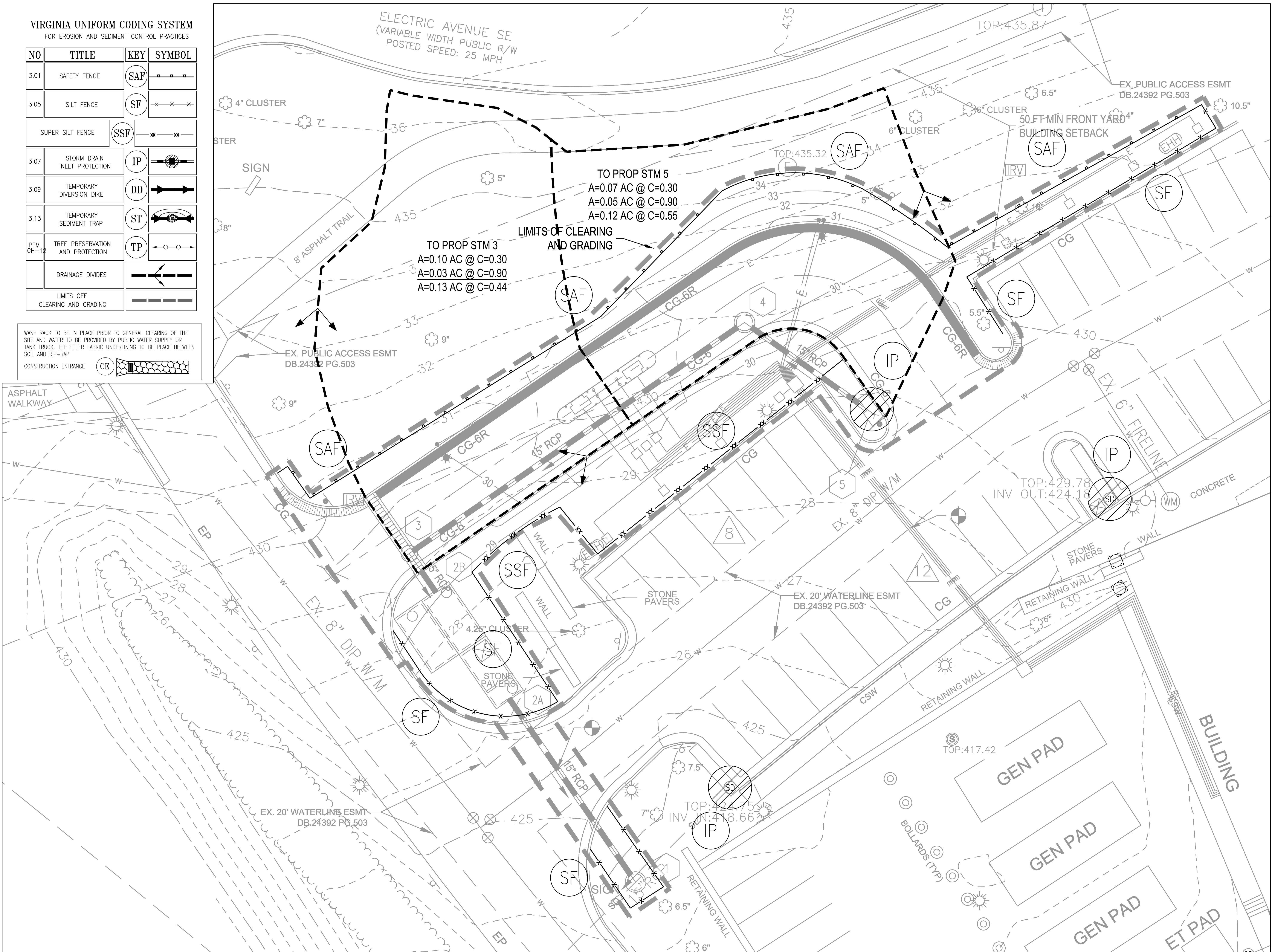


VIRGINIA UNIFORM CODING SYSTEM  
FOR EROSION AND SEDIMENT CONTROL PRACTICES

NO	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SAF	
3.05	SILT FENCE	SF	
	SUPER SILT FENCE	SSF	
3.07	STORM DRAIN INLET PROTECTION	IP	
3.09	TEMPORARY DIVERSION DIKE	DD	
3.13	TEMPORARY SEDIMENT TRAP	ST	
PM CH-12	TREE PRESERVATION AND PROTECTION	TP	
	DRAINAGE DIVIDES		
	LIMITS OFF CLEARING AND GRADING		

WASH RACK TO BE IN PLACE PRIOR TO GENERAL CLEARING OF THE SITE AND WATER TO BE PROVIDED BY PUBLIC WATER SUPPLY OR TANK TRUCK. THE FILTER FABRIC UNDERLINING TO BE PLACED BETWEEN SOIL AND RIP-RAP.

CONSTRUCTION ENTRANCE



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0	1/24/2025	ISSUED FOR PERMIT AND PRICING
NO.	DATE	REMARKS

DRAWING TITLE:  
EROSION & SEDIMENT  
CONTROL PHASE II

PROJECT NO.:  
50184423

ISSUE DATE:  
25.06.06

SHEET NUMBER:  
C-202

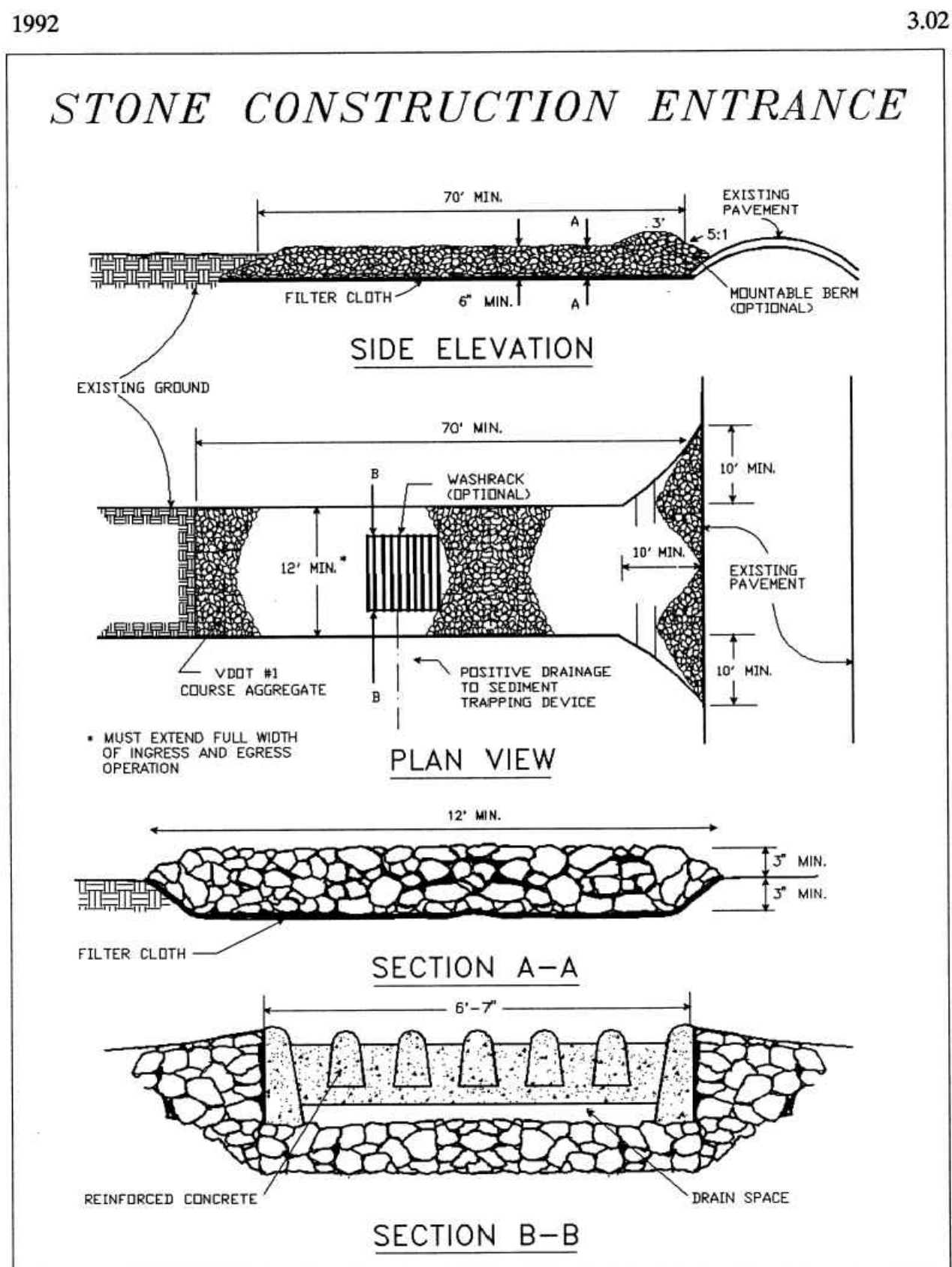




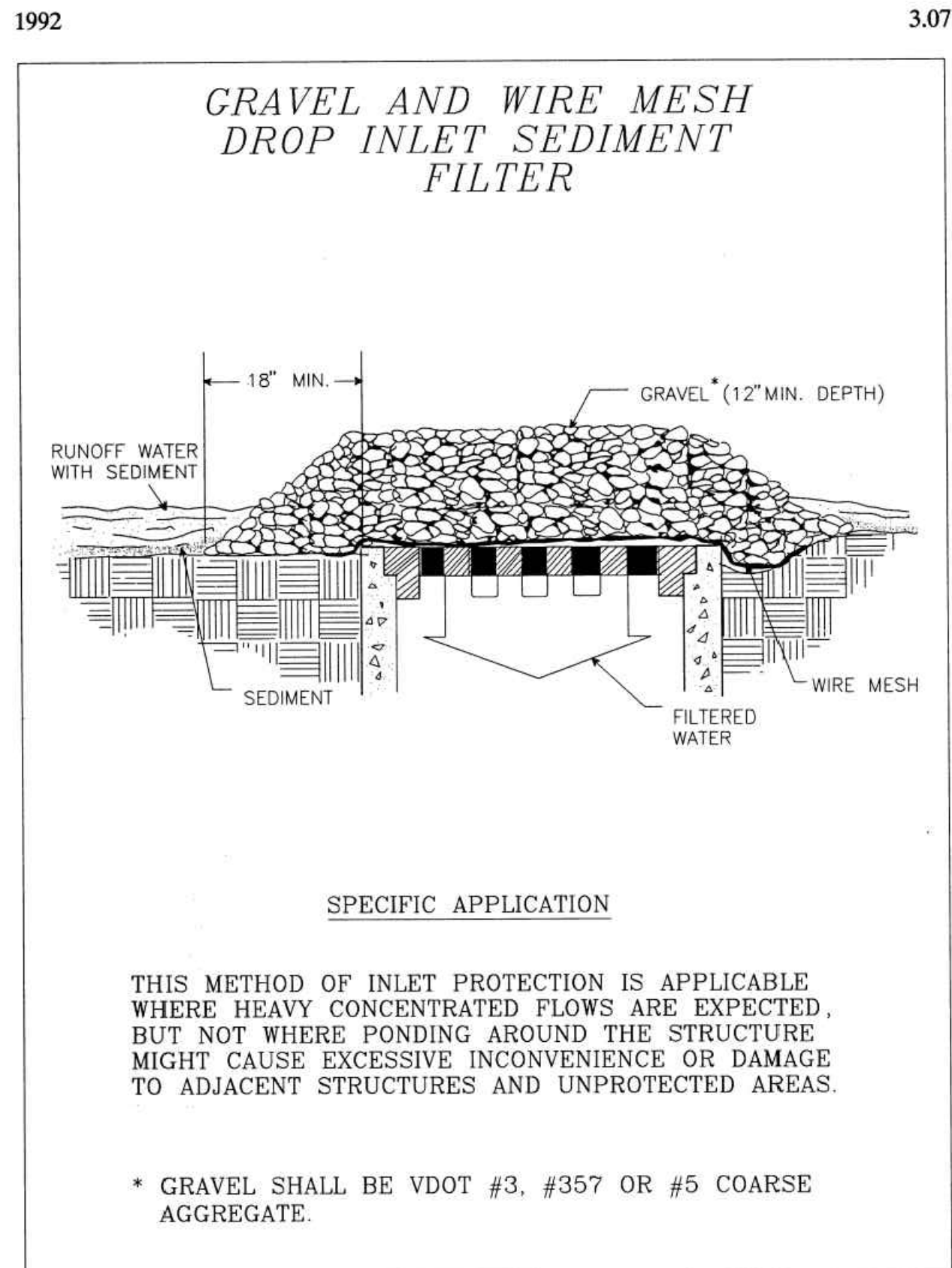


NOTE:  
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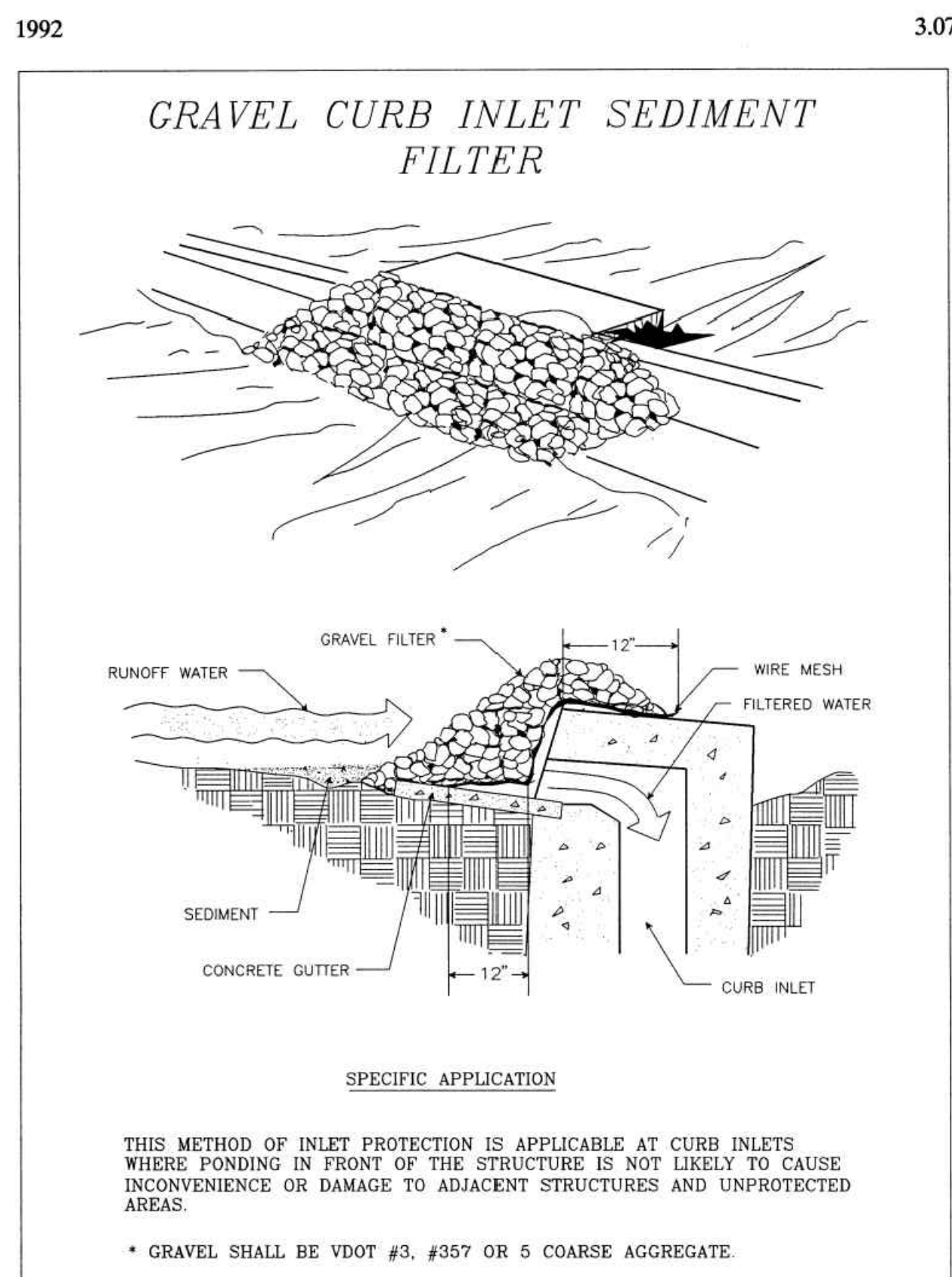
REFER TO EROSION AND SEDIMENT CONTROL NARRATIVE FOR ADDITIONAL INFORMATION



III - 9



III - 36



III - 41

1992 3.32

**TABLE 3.32-D  
SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA**

	Total Lbs. Per Acre
<b>Minimum Care Lawn</b>	
- Commercial or Residential	175-200 lbs.
- REBEL TALL FESCUE	95-100%
- Improved Perennial Ryegrass	0-5%
- Kentucky Bluegrass	0-5%
<b>High-Maintenance Lawn</b>	200-250 lbs.
- REBEL TALL FESCUE	100%
<b>General Slope (3:1 or less)</b>	
- REBEL TALL FESCUE	128 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
<b>Low-Maintenance Slope (Steeper than 3:1)</b>	150 lbs.
- REBEL TALL FESCUE	108 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
- White and/or Red Clover	150 lbs.

\* Use seasonal nurse crop in accordance with seeding dates as stated below:  
February 16th through April ..... Annual Rye  
May 1st through August 15th ..... Foxtail Millet  
August 16th through October ..... Annual Rye  
November through February 15th ..... Winter Rye

III - 303

1992 3.31

**Mulching**

- Seedlings made in fall for winter cover and during hot and dry summer months shall be mulched according to MULCHING, Std. & Spec. 3.35, except that hydromulches (fiber mulch) will not be considered adequate. Straw mulch should be used during these periods.
- Temporary seedlings made under favorable soil and site conditions during optimum spring and fall seeding dates may not require mulch.

**Re-seeding**

Areas which fail to establish vegetative cover adequate to prevent rill erosion will be re-seeded as soon as such areas are identified.

**TABLE 3.31-B  
ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS  
"QUICK REFERENCE FOR ALL REGIONS"**

Planting Dates	Species	Rate (lbs./acre)
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100
Feb. 16 - Apr. 30	Annual Ryegrass (Lolium multi-florum)	60 - 100
May 1 - Aug 31	German Millet (Setaria italica)	50

Source: Va. DSWC

III - 287



**ELEVATION VIEW**

CHAIN LINK FENCE WITH ONE LAYER OF FILTER FABRIC ATTACHED TO IT

10' MAX.  $\varnothing$  TO  $\varnothing$

30"

42"

9"

GROUND

**SECTION VIEW**

2.5" DIA. METAL FENCE POSTS

CHAIN LINK FENCE

FILTER FABRIC

30"

42"

FLOW

UNDISTURBED GROUND

30"

EMBED FILTER FABRIC 5" INTO GROUND

LAY FILTER FABRIC IN BOTTOM OF 3" WIDE TRENCH

SSP X—X—X—X—X

## FENCING

Chain link fence must be 39" above grade with 3" embedded for a total fabric width of 42". The post must be 42" above grade with 30" placed below grade (without concrete) for a total length of 72".

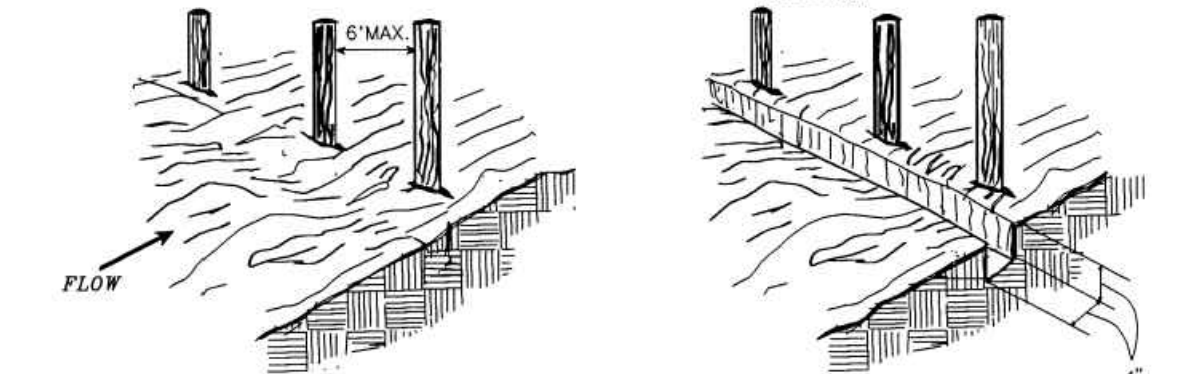
## NOTES

1. Chain link fence must be fastened securely to fence posts with wire ties.
2. Filter fabric must be fastened securely to chain link fence with ties spaced horizontally 24" at the top and midsection.
3. Physical properties of the filter fabric must conform to the latest edition of THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK.
4. The adjacent sections of filter fabric adjoin each other, they must be overlapped by 6".
5. Maintenance must be performed as needed and material must be removed when sediment build-up reaches 50% of the height of the super silt fence.

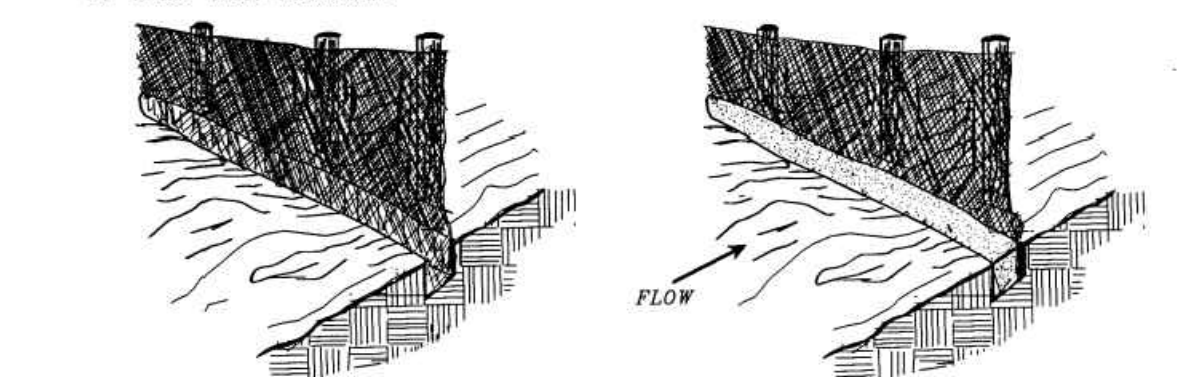
Ref. Sec. 11-0106.2, 11-0106.2A  Rev. 1-00, 2011 Reprint, 2018 Reprint	SUPER SILT FENCE NO SCALE	PLATE NO.	STD. NO.
		5-11	

### CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)

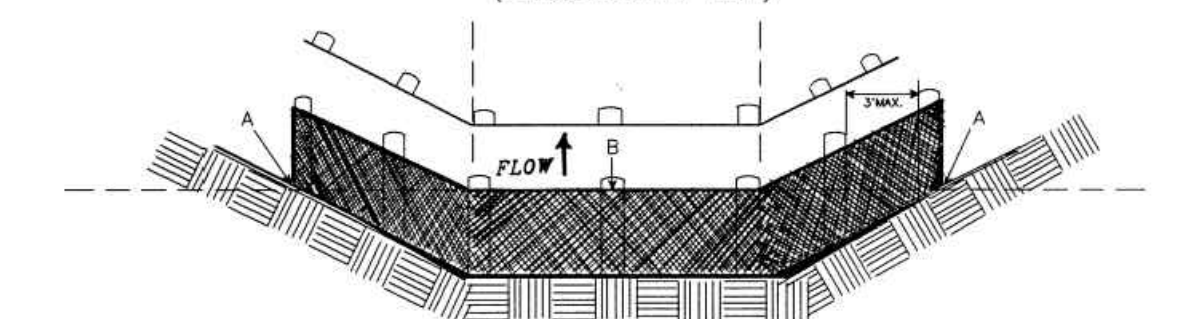
1. SET THE STAKES.
2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.



3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



SHEET FLOW INSTALLATION  
(PERSPECTIVE VIEW)



Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant

Plate 3.05-2

III - 25

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THE REFERENCED DETAILS.

REFER TO EROSION AND SEDIMENT CONTROL  
NARRATIVE FOR ADDITIONAL INFORMATION

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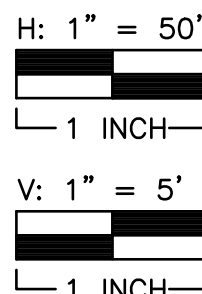
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**EROSION AND SEDIMENT  
CONTROL DETAILS**

PROJECT NO: 50184423	ISSUE DATE: 25.06.06
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SHEET NUMBER:

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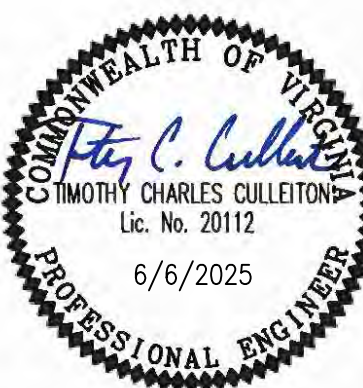
OUTLET		INC. DRAINAGE AREA	ACCUM. DRAINAGE AREA (AC.)	"C" COEFFICIENT	INCREMENTAL CA	ACCUMULATED CA	TIME TO INLET (MIN)	"V" (INH/R)	INCREMENTAL "Q" (CFS)	ACCUMULATED "Q" (CFS)	PIPE DIAMETER (IN.)	SLOPE (%)	<div> <div>"n"</div> <div>↓</div> </div>	MAXIMUM "Q" (CFS)	"V" VELOCITY (FPS)	LENGTH OF RUN (FT)	FLOW TIME (MIN)	UPPER INVERT	LOWER INVERT	FALL (FT)	REMARKS
FROM	TO																				
5	4	0.12	0.12	0.55	0.07	0.07	5.0	6.78	0.45	0.45	15	0.65%	0.013	5.21	2.45	39.0	0.26523	424.85	424.60	0.25	
4	3	-	-	-	-	-	5.0	6.78	-	0.45	15	0.81%		5.81	2.73	99.0	0.60384	424.50	423.70	0.80	TRENCH DRAIN
3	2B	0.13	0.25	0.44	0.06	0.12	5.0	6.78	0.48	0.93	15	0.87%	↓	6.03	3.52	12.0	0.05685	423.60	423.50	0.10	SWM VAULT IN
2A	1	-	-	-	-	-	5.0	6.78	-	0.93	15	0.92%	↓	6.20	3.62	54.0	0.24878	419.00	418.50	0.50	SWM VAULT OUT

[illegible]

NUMBER	TYPE	THROAT	STATION	SIDE OF STREET	DRAINAGE AREA	"C" COEFFICIENT	INCREMENTAL CA	"I"	INCREMENTAL Q	Q CARRY OVER	Q1 GUTTER FLOW	S0 GUTTER SLOPE	S1 CROSS SLOPE	T SPREAD	W	WIT	SW	SW/SX	E0	A	SV=a/(12W)	S1/FT/FT= S1+S-E0	L OR P EFFECTIVE LENGTH	L/LT D	E OR H	Q INTERCEPTED		Q5 CARRY OVER	T T SPREAD @ SAG	REMARKS											
																										CFS	CFS				CFS	FT	FT	FT/FT	FT	FT	FT/FT	FT	FT	CFS	CFS
5	DI-3B	6	2+34.03	RT	0.12	0.55	0.07	6.78	0.45	-	0.45	0.015	0.02	<b>4.572</b>	2.0	0.44	0.353	17.67	0.99	2.0	0.083	0.10	6.46	0.93	0.99	0.44	0.00	-													

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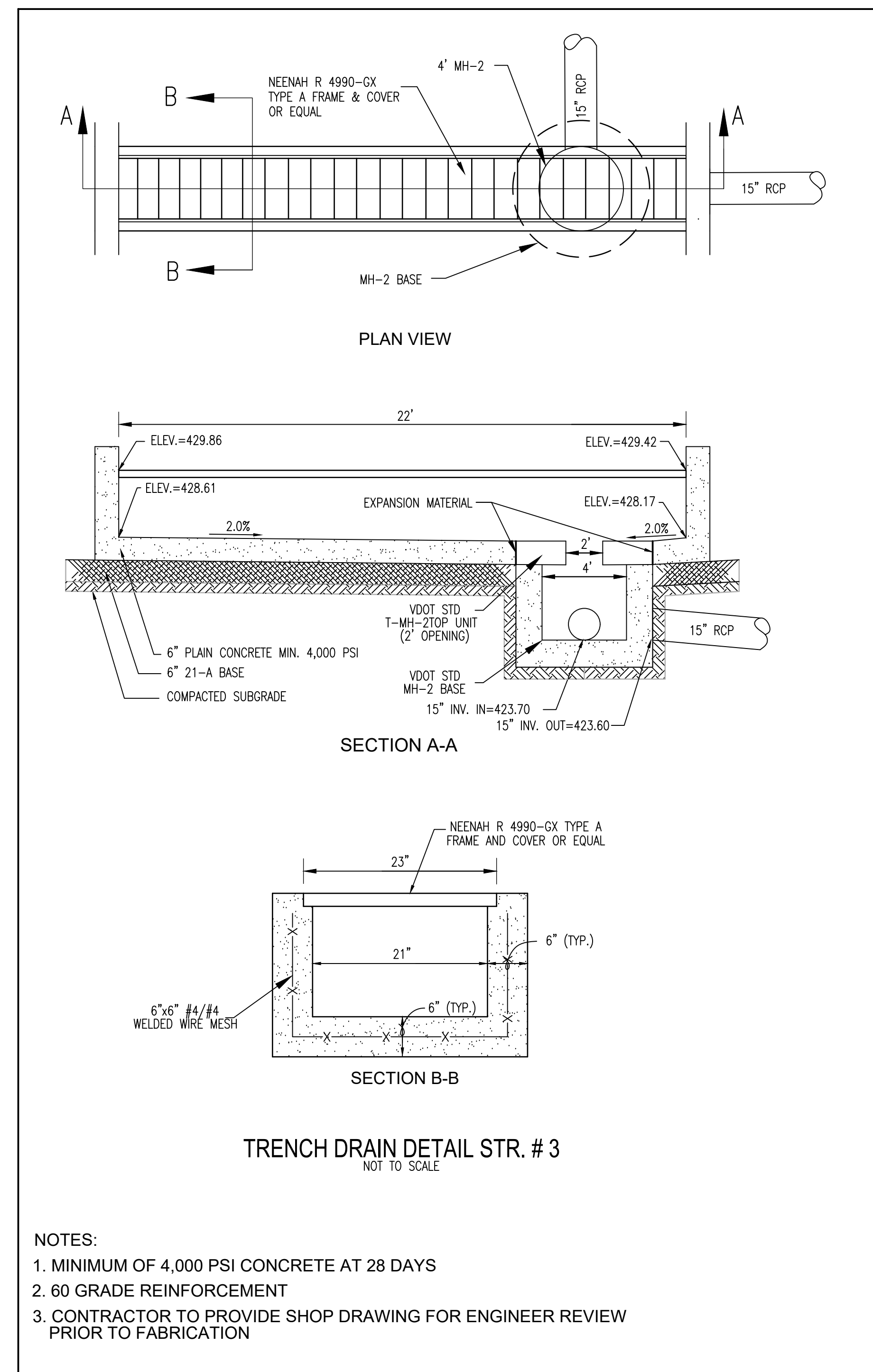
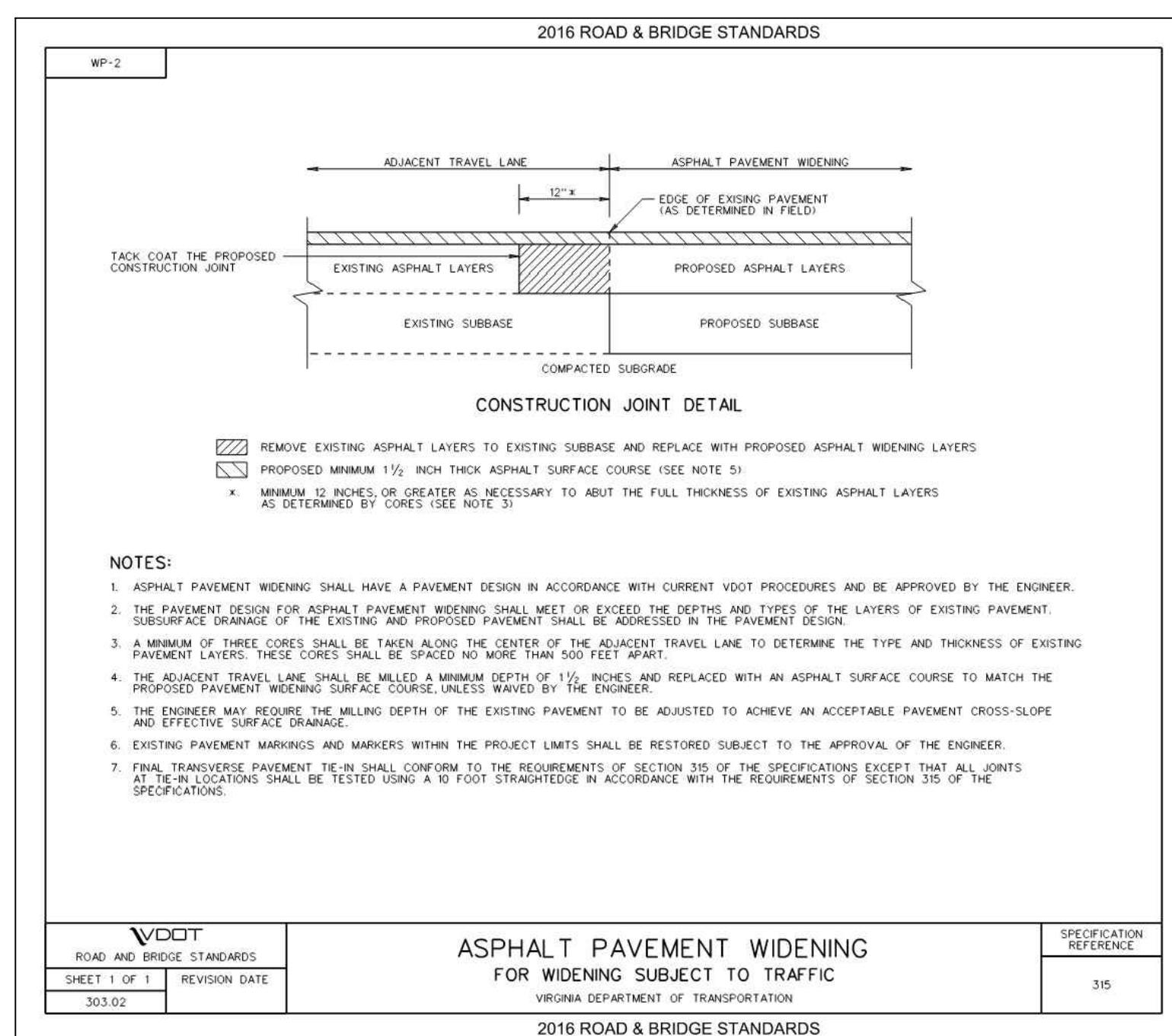
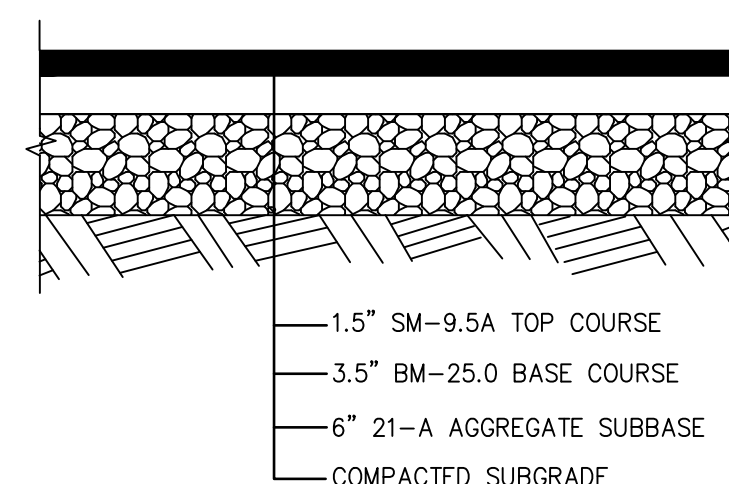
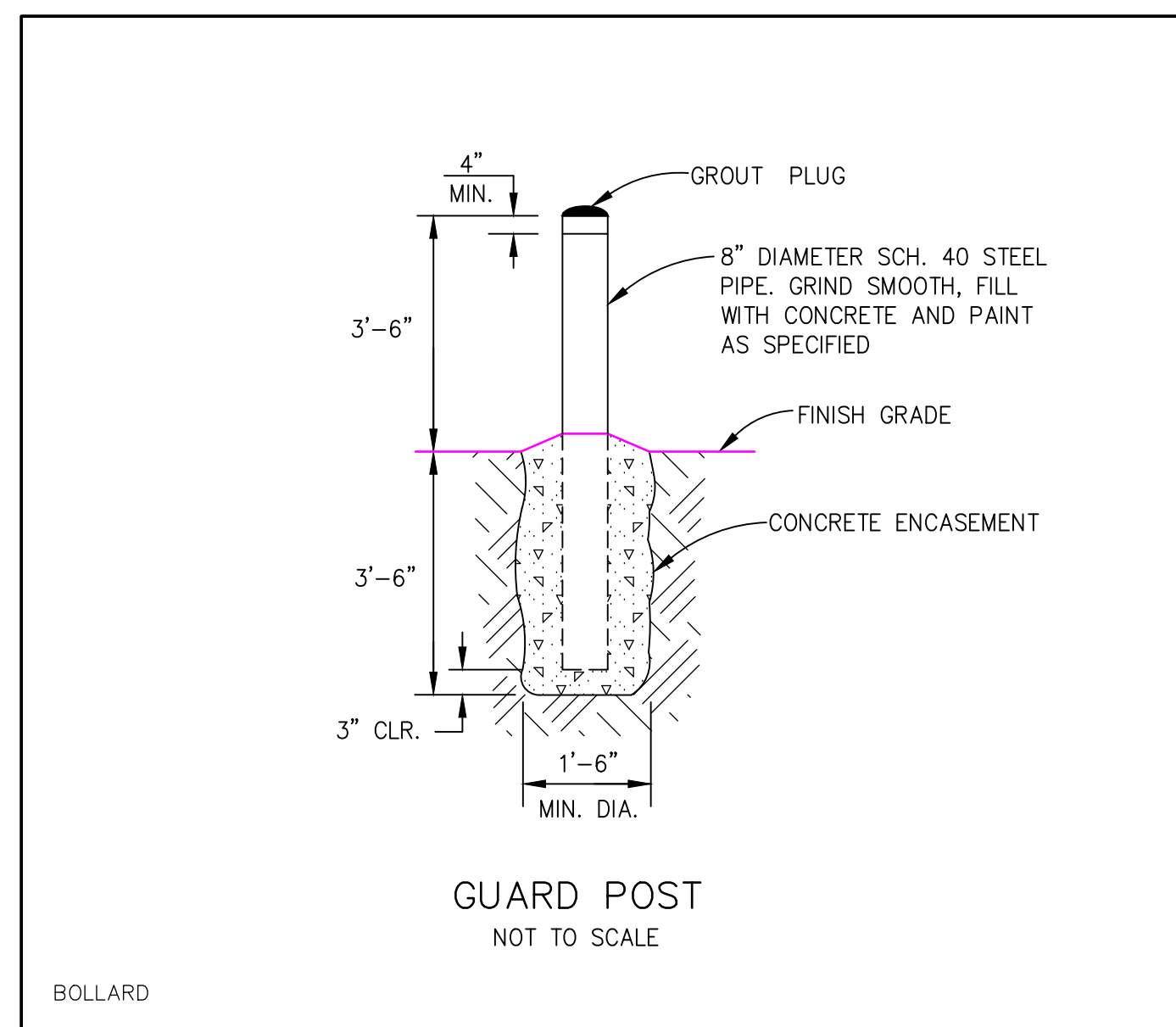
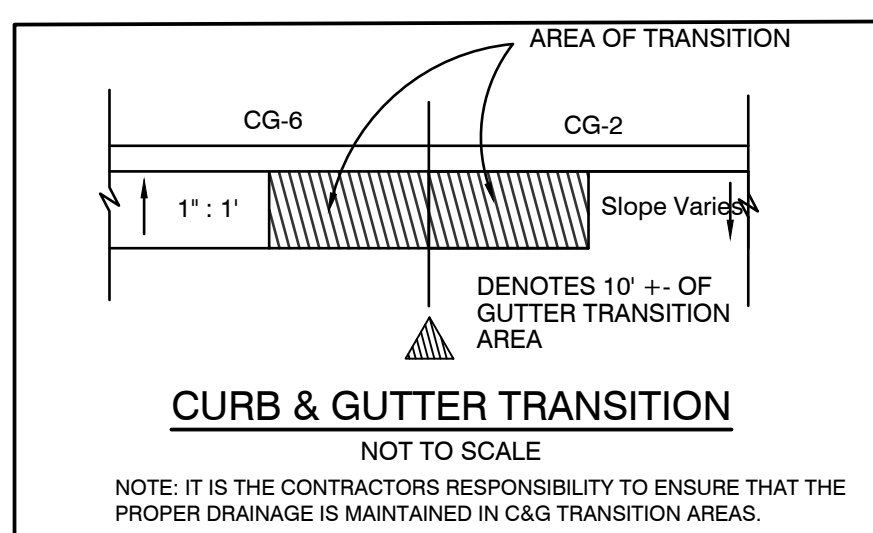
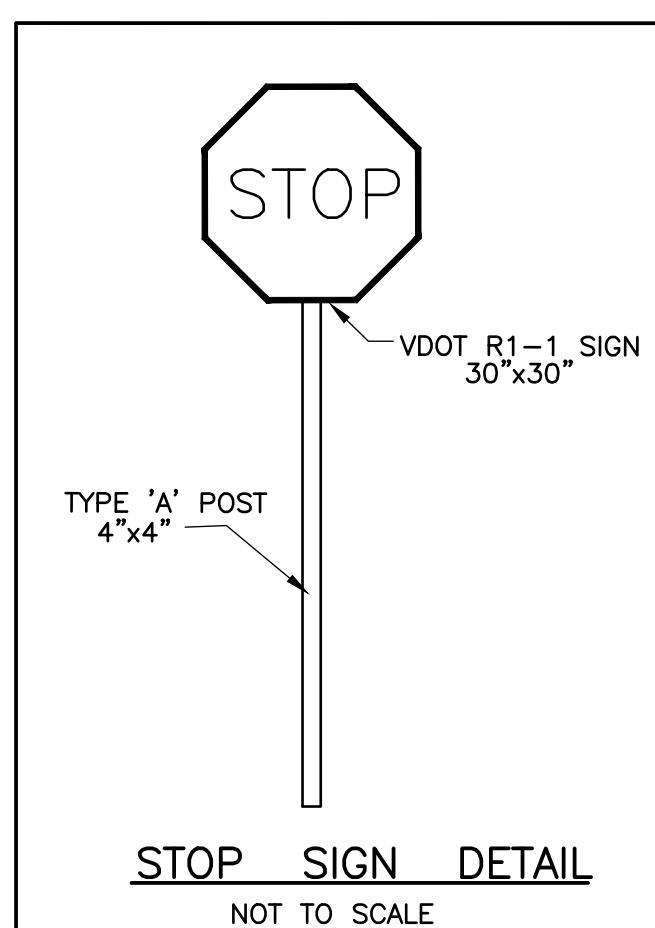
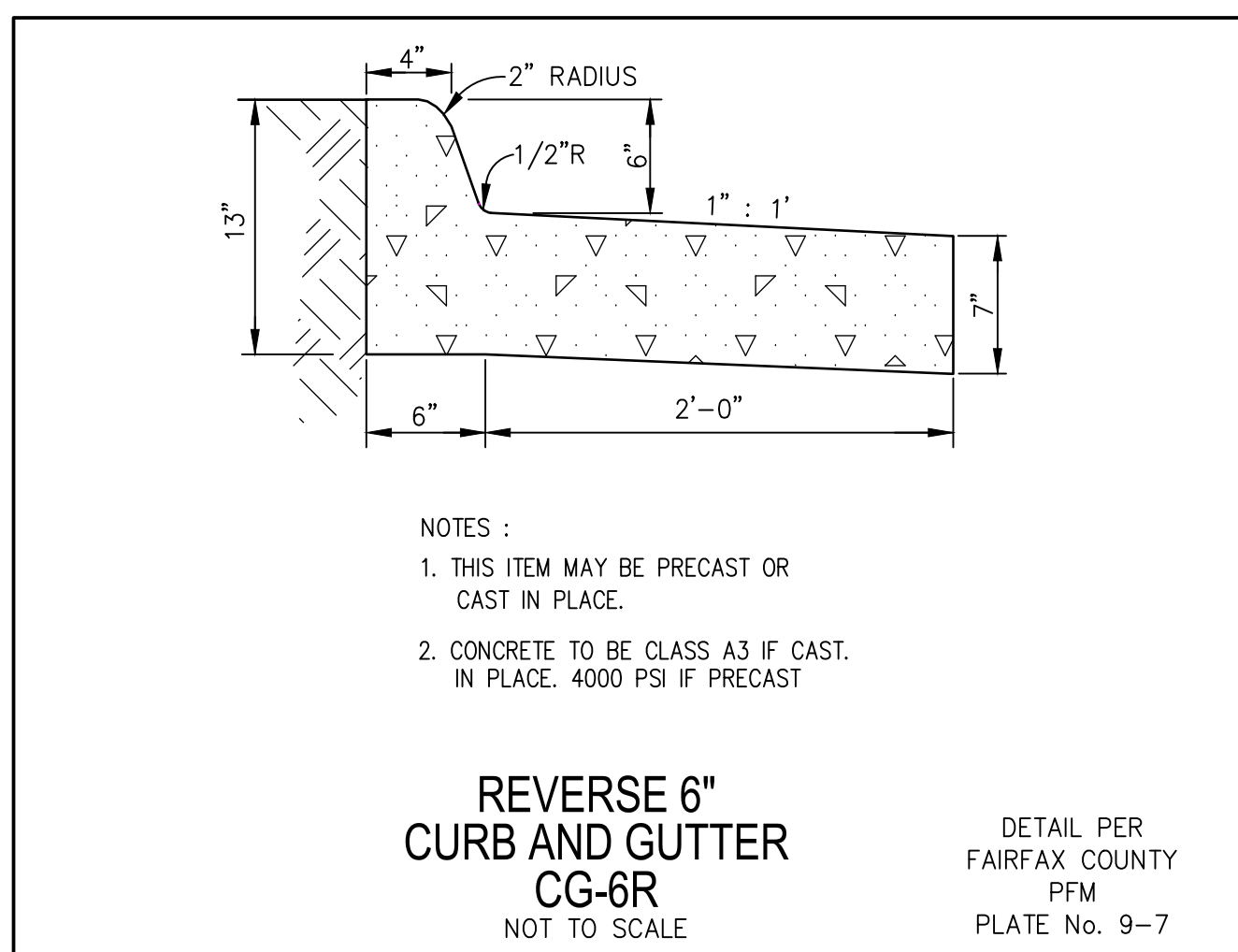
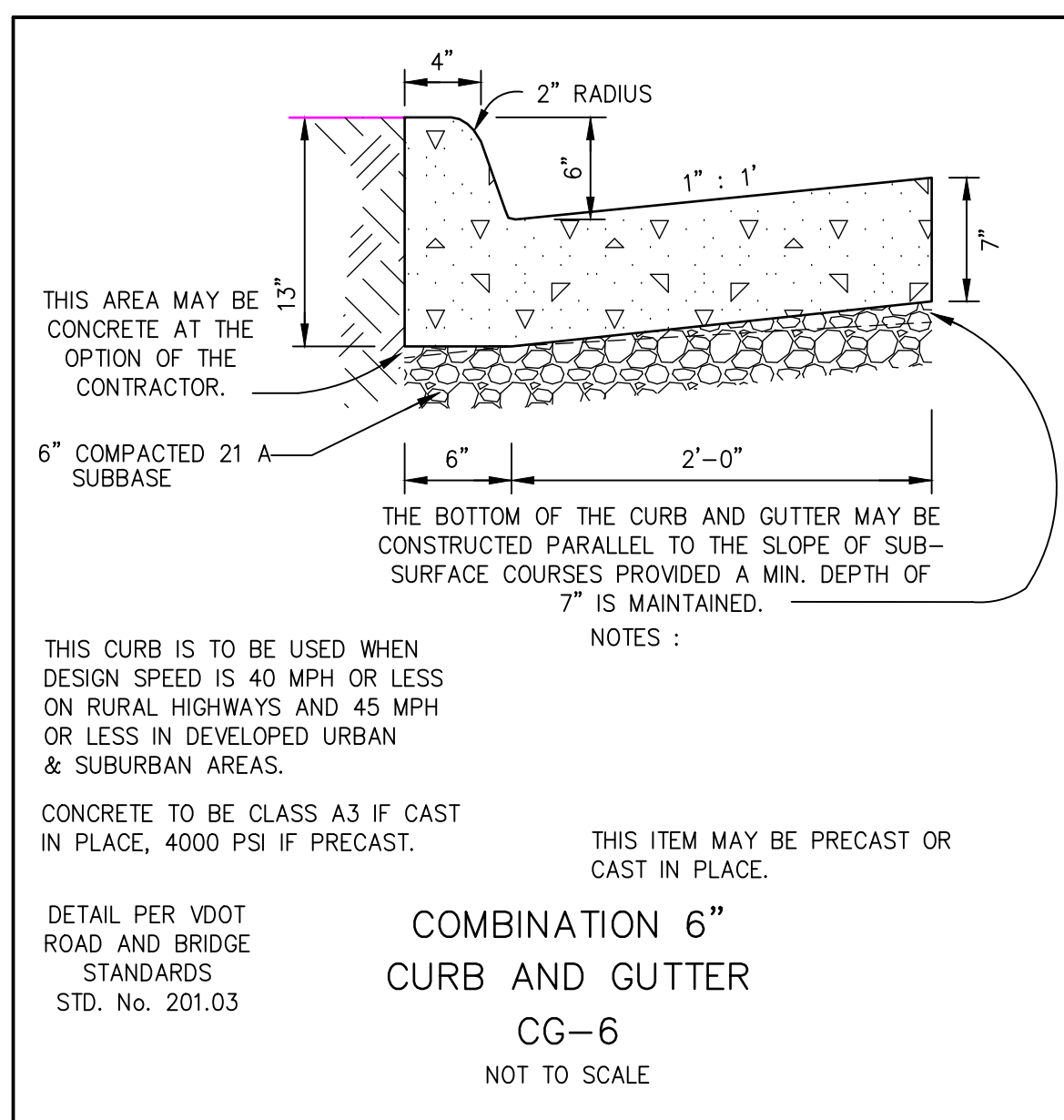
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**STORM SEWER PROFILES**

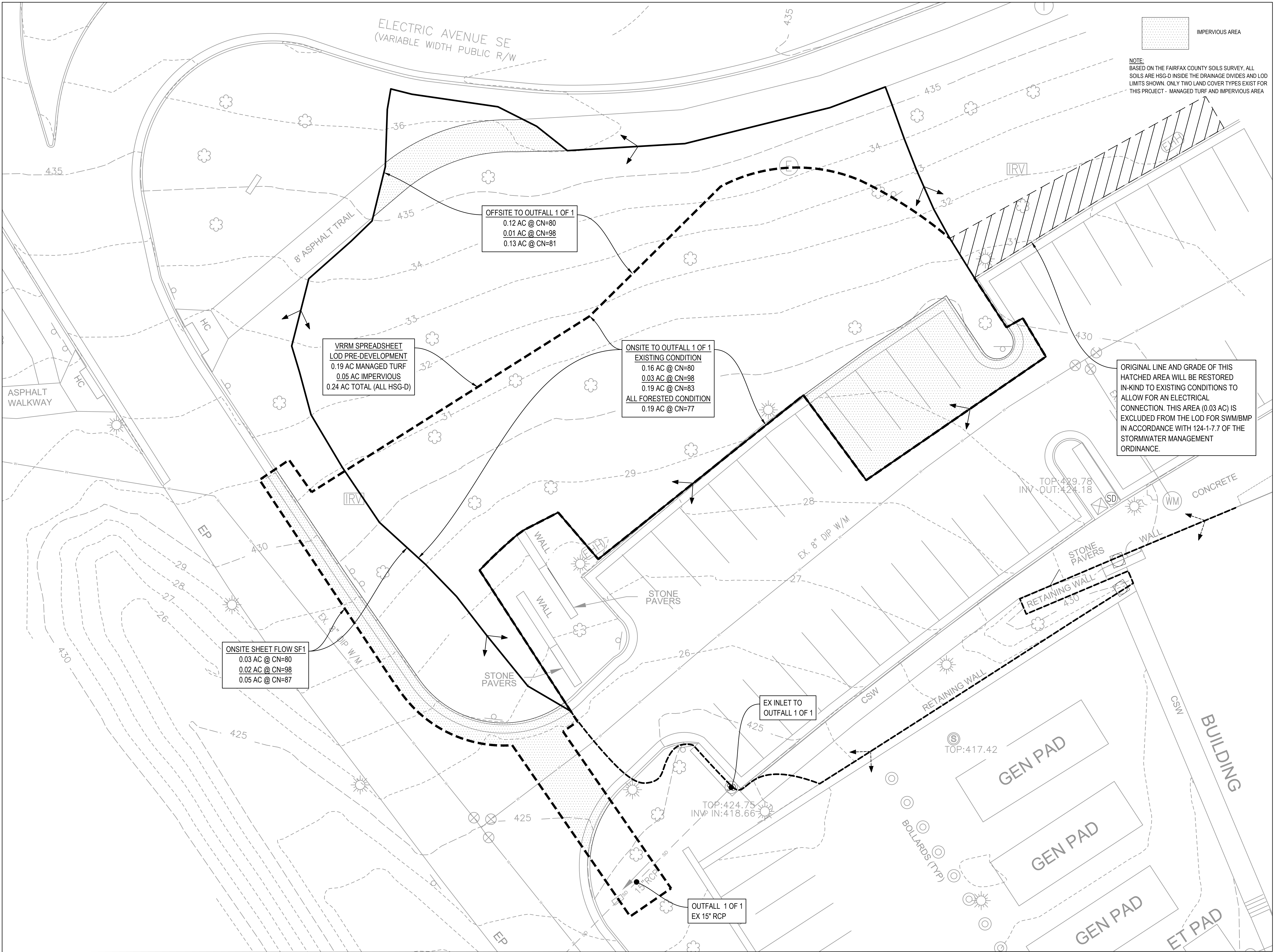
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DRAWING TITLE:  
SWM DRAINAGE MAP (PRE  
DEVELOPMENT)

PROJECT NO.:  
50184423

ISSUE DATE:  
25.06.06

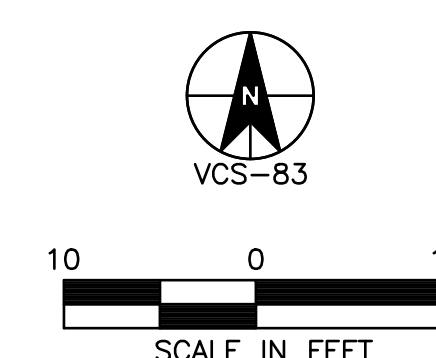
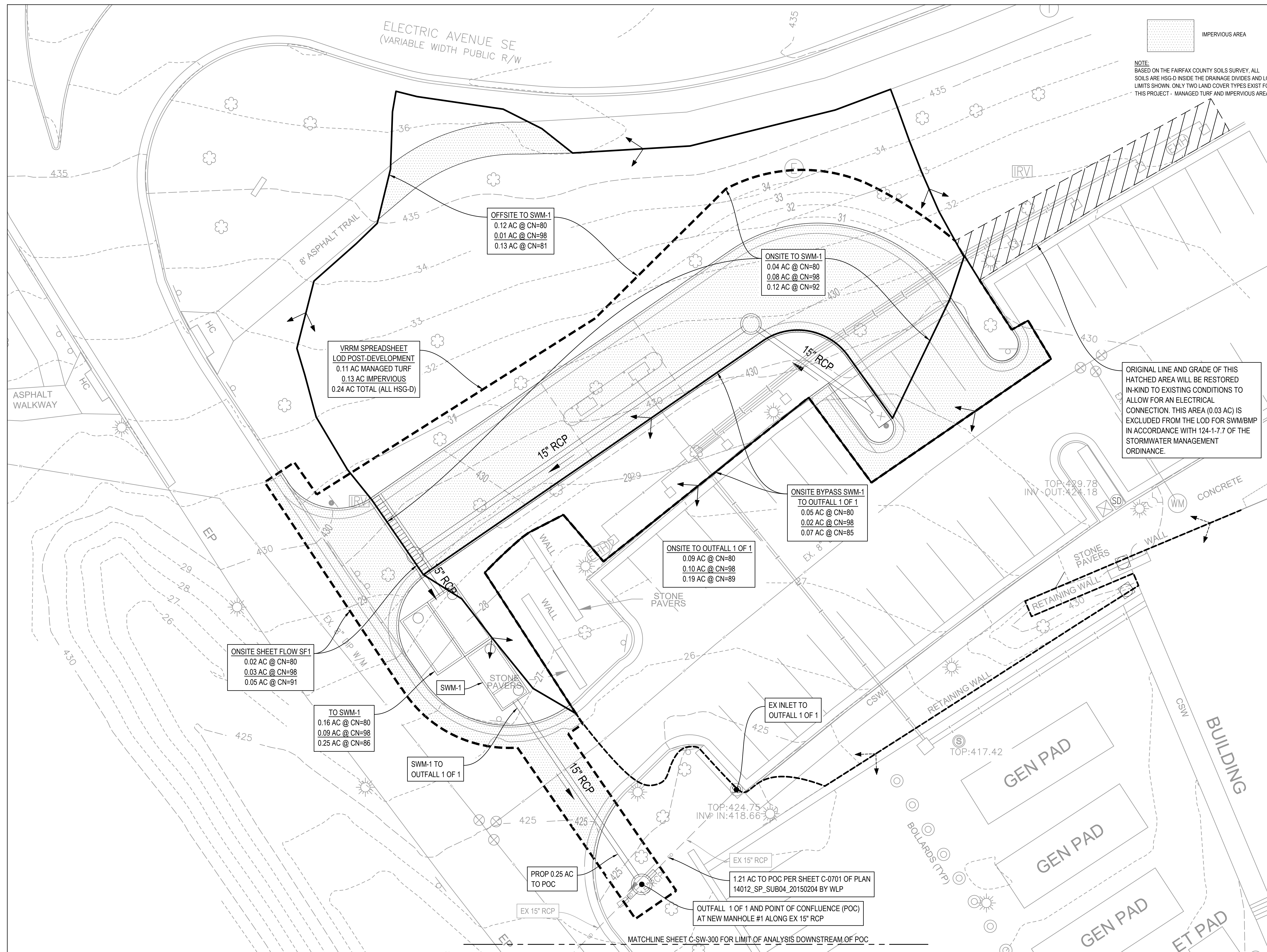
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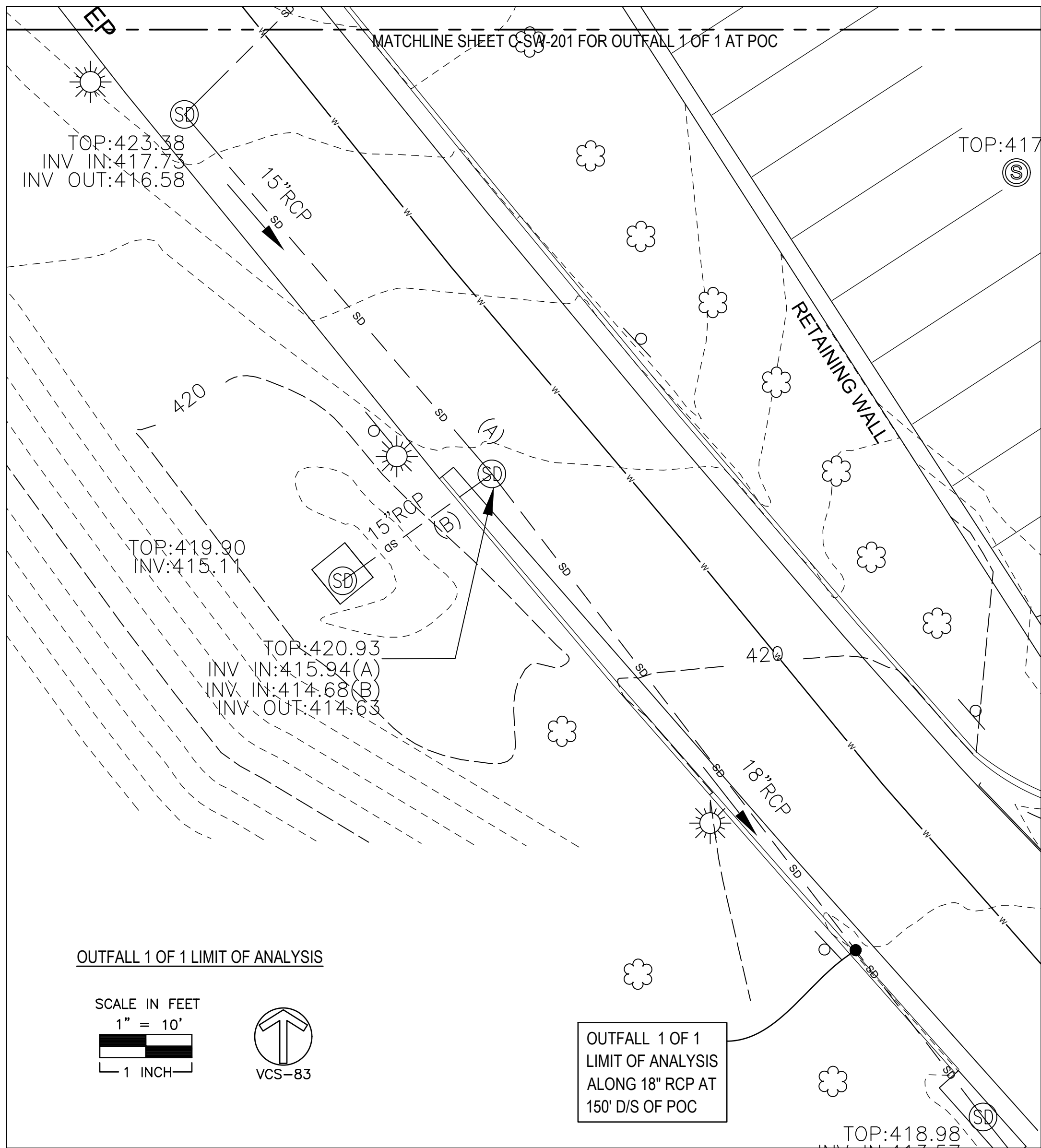
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1	TBD	ASD 01
0	1/24/2025	ISSUED FOR PERMIT AND PRICING
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DRAWING TITLE:  
SWM DRAINAGE MAP  
(POST-DEVELOPMENT)

PROJECT NO.:	ISSUE DATE:
50184423	25.06.06
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SHEET NUMBER:  
C-SW-201





STORMWATER MANAGEMENT PLAN NARRATIVE

THE LIMITS OF DISTURBANCE (LOD) FOR THIS PROJECT IS APPROXIMATELY 0.27 AC. OF THIS AREA, APPROXIMATELY 0.24 AC. REQUIRES WATER QUALITY AND WATER QUANTITY CONTROLS IN ACCORDANCE WITH ARTICLE 4 OF THE FAIRFAX COUNTY STORMWATER MANAGEMENT ORDINANCE (SWMO) AND CHAPTER 6 OF THE PUBLIC FACILITIES MANUAL (PFM). THE REMAINING 0.03 AC IS NOT INCLUDED IN ACCORDANCE WITH SECTION 124-1-7.7 OF THE SWMO. SEE SHEETS C-SW-200 AND C-SW-201 FOR THE SWMBMP LOD ASSUMED FOR THIS SITE PLAN.

HYDROLOGY WAS DEVELOPED USING NRCS METHODOLOGIES AND HEC-1. THE NOAA-C RAINFALL DISTRIBUTION FROM THE PFM WAS USED TO GENERATE PROJECT HYDROGRAPHS PER SWMO 124-4-6. THE TIME STEP USED FOR ALL HEC-1 MODELS IN THIS PLAN IS 1 MINUTE.

II. WATER QUALITY (SWMO 124-4-3) (BMP NARRATIVE)

BECAUSE THE DISTURBED AREA CONSISTS OF NEW DEVELOPMENT ON PRIOR DEVELOPED LANDS, THE VIRGINIA RUNOFF REDUCTION METHOD (VRRM) RE-DEVELOPMENT COMPLIANCE SPREADSHEET WAS USED TO SHOW WATER QUALITY COMPLIANCE IN ACCORDANCE WITH ARTICLE 4.

AS CALCULATED BY THE VRRM WORKSHEET (SEE SHEET C-SW-301), THE TOTAL PROJECT LOAD REDUCTION REQUIRED FOR PHOSPHORUS IS 0.06 LB. AS ALLOWED UNDER 124-4-5(B)(2), THIS REDUCTION WILL BE MET BY PURCHASING OFFSITE NUTRIENT CREDITS. A NUTRIENT CREDIT AVAILABILITY LETTER FOR 0.08 LB IS PROVIDED ON THIS SHEET. THIS PROJECT IS LOCATED IN HUC CODE 02070010.

III. WATER QUANTITY (SWMO 124-4-4) (SWM AND ADEQUATE OUTFALL NARRATIVE)

DESCRIPTION OF OUTFALLS

THERE IS ONE (1) OUTFALL THAT RECEIVE CONCENTRATED FLOW FROM THE PROJECT. THIS IS IDENTIFIED AS OUTFALL 1 OF 1.

OUTFALL 1: DISCHARGES INTO ACCOTINK CREEK WATERSHED. LOD CONTRIBUTING DRAINAGE AREA TO THIS OUTFALL IS 0.19 AC. RECEIVING CONVEYANCE SYSTEM CONSISTS OF CLOSED STORM SEWER.

CHANNEL AND FLOOD PROTECTION

OUTFALL 1: CHANNEL AND FLOOD PROTECTION IS SATISFIED FOR THIS OUTFALL USING THE DETENTION METHOD. THE DETENTION METHOD IS SATISFIED USING A PROPOSED STORMCAPTURE DETENTION SYSTEM.

LIMITS OF ANALYSIS

OUTFALL 1: LIMIT OF ANALYSIS PER 124-4-4.B.6.C AND 124-4-4.C.6.D FOR CHANNEL AND FLOOD PROTECTION, RESPECTIVELY. LIMIT OF ANALYSIS IS AT A POINT 150 FT DOWNSTREAM OF THE POINT OF CONFLUENCE (SEE THIS SHEET).

100-YEAR FLOODING

THERE ARE NO FAIRFAX COUNTY OR FEMA 100-YEAR FLOODPLAINS ESTABLISHED INSIDE THE PROJECT LOD. THERE ARE ALSO NO KNOWN DWELLINGS OR BUILDINGS CONSTRUCTED UNDER AN APPROVED BUILDING PERMIT THAT HAVE BEEN FLOODED BY THE 100-YEAR STORM BETWEEN THE PROJECT SITE AND LIMIT OF ANALYSIS FOR OUTFALL 1 OF 1.

DETENTION

2- AND 10-YR DETENTION IS PROVIDED FOR THE PROJECT:

TOTAL PROJECT	2-YR PEAK DISCHARGE	10-YR PEAK DISCHARGE
EXISTING CONDITIONS	0.61 CFS	1.23 CFS
PROPOSED CONDITIONS	0.42 CFS	0.69 CFS
DETENTION PROVIDED	0.19 CFS	0.54 CFS

SHEET FLOW

THERE IS ONE SMALL AREA OF SHEET FLOW. THIS IS IDENTIFIED AS SF1 (0.05 AC). THE EXISTING AND POST-DEVELOPED 10-YR RUNOFF FROM SF1 ARE 0.23 CFS AND 0.24 CFS, RESPECTIVELY. UNDER DEVELOPED CONDITIONS, SF1 RUNOFF LEAVES THE LOD ONTO EXISTING PAVEMENT. IT IS NOT ANTICIPATED THAT THIS SMALL AREA AND DISCHARGE OF SHEET FLOW WILL CAUSE ANY DOWN-GRADIENT EROSION AND/OR FLOODING PROBLEMS.

ADEQUACY CONCLUSION

IT IS THE OPINION OF THE ENGINEER THAT ALL REQUIREMENTS OF 124-4-4 (WATER QUANTITY) AND PFM HAVE BEEN MET AND THAT OUTFALL 1 OF 1 AND AREAS OF SHEET FLOW PROPOSED WITH THIS PLAN ARE ADEQUATE. NO DOWNSTREAM STRUCTURES WILL BE IMPACTED.

IV. MAINTENANCE

THE PROPOSED STORMCAPTURE® FACILITY WILL BE PRIVATELY OWNED AND MAINTAINED. OPERATION, MAINTENANCE AND INSPECTION REQUIREMENTS FOR THE STORMCAPTURE® WILL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AS PROVIDED ON SHEET C-SW-402.



Date: December 3, 2024

To: Scott Clarke, PE  
Senior Associate, Senior Project Manager  
Dewberry

From: Amy Staley  
Credit Sales Manager  
Resource Environmental Solutions

Subject: Potomac Watershed – Nutrient Credit Availability

Project Reference: Navy Federal Credit Union - ATM Relocation, 0.08 Credits Requested: HUC 02070010

This letter is to confirm the availability of 0.08 authorized nutrient credits ("Nutrient Credits") from one or more of Resource Environmental Solutions' ("RES") Potomac nutrient bank facilities for use by permit applicants within the Potomac watershed, including HUC 02070010, to compensate for nutrient loadings in excess of state or local regulations, as per Virginia Code § 62.1-44.15.35 and § 62.1-44.19-14 and Virginia Administrative Code 9 VAC 25-820-10 et seq. These Nutrient Credits are generated and managed under the terms of the Banking Instruments known as the Whispering Hills Nutrient Reduction Implementation Plan ("NRIP").

Please feel free to contact me if you have any questions.

Sincerely,

Amy Staley

Amy Staley  
Credit Sales Manager  
astaley@res.us | 919.209.1055

PT05.005

Town of Vienna Stormwater Management Facility  
Maintenance Agreement

THIS AGREEMENT, made this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, by and between \_\_\_\_\_

(Insert Full Name of Owner(s))

hereinafter called "Landowner," and the Town Council of the Town of Vienna, Virginia, hereinafter called "Town;"

WITNESSETH:

WHEREAS, the Landowner is the owner of certain real property, more particularly described as:

Property Description / Location: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Address Tax Map Number

As recorded by Deed in the land records of Fairfax County, Virginia, in Deed Book \_\_\_\_\_ at Page \_\_\_\_\_, hereinafter called the "Property," and

WHEREAS, the Landowner has engaged in a land disturbing activity on the Property that is regulated under Chapter 23 of the Town Code; and

WHEREAS, Site Plan/Subdivision Plan Name \_\_\_\_\_ hereinafter called the "Plan" and expressly made part of this agreement, provides for management of stormwater within the confines of the Property in accordance with a stormwater management plan approved by the Town; and

WHEREAS, the Town and the Landowner agree that the health, safety, and welfare of the residents of the Town of Vienna, Virginia require that stormwater management facilities be constructed and maintained on the property; and

WHEREAS, the Town requires that stormwater management facilities be constructed and adequately maintained by the Landowner.

NOW, THEREFORE, in consideration of the foregoing premises, the mutual covenants contained herein, and the following terms and conditions, the parties hereby agree as follows:

Version – December 13, 2016

1

for any and all damages, accidents, casualties, occurrences or claims that might arise or be asserted against the Town from the construction, presence, existence, or maintenance of stormwater management facilities by the Landowner or the Town. In the event a claim is asserted against the Town, its agents or employees, the Town shall promptly notify the Landowner and the Landowner shall defend at his own expense any suit based on such claim. If any judgment or claims against the Town, its agents or employees is allowed, the Landowner shall pay all costs and expenses in connection therewith.

9. This Agreement shall be recorded among the land records of Fairfax County, Virginia, and shall constitute a covenant running with the land and shall be binding on the Landowner, its administrators, executors, assigns, heirs and any other successors in interest.

IN WITNESS OF all of which, the parties hereto have caused this Agreement to be executed under seal on their behalf.

Signature Landowner Signature Landowner

Print Name Print Name

Print Title Print Title

Address: (Print): \_\_\_\_\_

STATE OF \_\_\_\_\_

COUNTY/CITY OF \_\_\_\_\_

I, \_\_\_\_\_, Notary Public in and for the State and County/City aforesaid, do hereby certify that whose name(s) is (are) signed to the foregoing Agreement, this day personally appeared before me in my State and County/City aforesaid and acknowledged the same.

Given under my hand this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

My commission expires: \_\_\_\_\_ Notary Public

Version – December 13, 2016

3

1. The Landowner shall construct stormwater management facilities in accordance with the Plan, the stormwater management plan, and other plans approved by the Town and in compliance with all applicable laws and regulations promulgated pursuant to the Code of Virginia § 62.1-44.15.27 and 9VAC25-870 (Virginia Stormwater Management Program Regulations).

2. The Landowner shall maintain the stormwater management facilities in good working order so that the facilities are performing their design functions as described and shown on the Plan and in the Virginia Stormwater BMP Clearinghouse and in accordance with the specific maintenance requirements noted in the Stormwater Facility Maintenance Manual attached hereto as Attachment A.

3. The Landowner shall submit a Private Stormwater Management Facility Inspection and Maintenance Report to the Town on a frequency of no less than once every five years or upon written notice from the Town. The inspection report shall be signed and sealed by a qualified professional engineer or surveyor unless the Stormwater Facility Maintenance Manual explicitly provides otherwise.

4. The Landowner hereby grants permission to the Town, its authorized agents and employees, to enter on the Property to inspect the stormwater management facilities whenever it deems necessary. Except in cases of emergency, the Town shall make a reasonable attempt to notify the Landowner prior to entering the Property.

5. If the Landowner fails to adequately maintain the stormwater management facilities in accordance with the Plan and the Virginia Stormwater BMP Clearinghouse and in accordance with the specific maintenance requirements noted in the Stormwater Facility Maintenance Manual, or if the Landowner fails to submit a Private Stormwater Management Facility Inspection and Maintenance Report when due in accordance with this Agreement, the Town and its agents shall have the right, but not the obligation, to enter onto the Property and perform any inspection, replacement, repair and maintenance as the Town deems necessary. The Landowner shall reimburse the Town the costs of the inspection, replacement, repair, and maintenance of the stormwater management facilities performed by the Town within 10 days of receipt of an invoice by the Town. This provision shall not be construed to allow the Town to erect any building or structure on the Property without obtaining written approval of the Landowner. It is expressly understood and agreed that the Town is under no obligation to maintain or repair said facilities, and in no event shall this Agreement be construed to impose any such obligation on the Town.

6. The Landowner shall not alter the stormwater management facilities without prior written approval of the Town.

7. The intent of this Agreement is to ensure the proper maintenance of stormwater management facilities by the Landowner; provided, however, that this Agreement shall not be deemed to create or affect any additional liability on any party for damage alleged to result from or be caused by stormwater drainage.

8. The Landowner, its executors, administrators, assigns, and any other successors in interest, shall indemnify and hold harmless the Town and its agents and employees

Version – December 13, 2016

2

TOWN COUNCIL, TOWN OF VIENNA, VIRGINIA

By: \_\_\_\_\_  
Director of Public Works, Town of Vienna

COMMONWEALTH OF VIRGINIA  
COUNTY OF FAIRFAX

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, appeared before me in

my State and County aforesaid, \_\_\_\_\_ Director of Public Works,

and acknowledged his signature.

My commission expires: \_\_\_\_\_ Notary Public

Approved to Form

Town Attorney

Version – December 13, 2016

4

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Associated Space Design, Inc. 2024

NO.	DATE	REVISIONS
2	6/6/2025	SITE PLAN REVIEW
1	TBD	AS1 01
0	1/24/2025	ISSUED FOR PERMIT AND PRICING
NO.	DATE	REMARKS

DRAWING TITLE:  
SWM NARRATIVE

PROJECT NO.: 50184423  
ISSUE DATE: 25.06.06  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_

SHEET NUMBER:

C-SW-300



Project Name: NAVY FEDERAL CREDIT UNION - ATM RELOCATION  
Date: Linear Development Project? No

CLEAR ALL  
(Ctrl+Shift+R)

data input cells  
constant values  
calculation cells  
final results

Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area (acres) → 0.24

Maximum reduction required:	10%
The site's net increase in impervious cover (acres) is:	0.08
Post-Development TP Load Reduction for Site (lb/yr):	0.06

Pre-ReDevelopment Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest (acres) -- undisturbed, protected forest or reforested land				0.00	0.00
Mixed Open (acres) -- undisturbed/inrequently maintained grass or shrub land				0.00	0.00
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed				0.19	0.19
Impervious Cover (acres)				0.05	0.05
					0.24

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest or reforested land				0.00	0.00
Mixed Open (acres) -- undisturbed/inrequently maintained grass or shrub land				0.00	0.00
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed				0.11	0.11
Impervious Cover (acres)				0.13	0.13
Area Check	OK.	OK.	OK.	OK.	0.24

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr) 0.06

Nitrogen Loads (Informational Purposes Only)

Pre-ReDevelopment TN Load (lb/yr) 2.33

Final Post-Development TN Load 2.59

LAND COVER SUMMARY -- PRE-REDEVELOPMENT

Land Cover Summary-Pre		
Pre-ReDevelopment	Listed	Adjusted <sup>1</sup>
Forest Cover (acres)	0.00	0.00
Weighted Rv(forest)	0.00	0.00
Weighted Loading Rate(forest)	0.00	0.00
% Forest	0%	0%
Mixed Open Cover (acres)	0.00	0.00
Weighted Rv(mixed)	0.00	0.00
Weighted Loading Rate(mixed)	0.00	0.00
% Mixed Open	0%	0%
Managed Turf Cover (acres)	0.19	0.11
Weighted Rv(turf)	0.25	0.25
Weighted Loading Rate(turf)	0.85	0.85
% Managed Turf	79%	69%
Impervious Cover (acres)	0.05	0.05
Rv(impervious)	0.95	0.95
Weighted Loading Rate(impervious)	0.86	0.86
% Impervious	21%	31%
Total Site Area (acres)	0.24	0.16
Site Rv	0.40	0.47

Treatment Volume and Nutrient Load

Pre-ReDevelopment Treatment Volume (acre-ft)	0.0079	0.0063
Pre-ReDevelopment Treatment Volume (cubic feet)	345	272
Pre-ReDevelopment TP Load (lb/yr)	0.20	0.14
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	0.85	0.85
Baseline TP Load (lb/yr) (0.26 lbs/acre/yr applied to pre-redevelopment area excludng pervious land proposed for new impervious cover)		0.04

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

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

Column I shows load reduction requirement for new impervious cover (based on new development load limit, 0.26 lbs/acre/year).

LAND COVER SUMMARY -- POST DEVELOPMENT

Land Cover Summary-Post (Final)			
Post ReDev. & New Impervious		Land Cover Summary-Post Post-ReDevelopment	
Forest Cover (acres)	0.00	Forest Cover (acres)	0.00
Weighted Rv(forest)	0.00	Weighted Rv(forest)	0.00
Wgt. Ld. Rate(forest)	0.00	Wgt. Ld. Rate(forest)	0.00
% Forest	0%	% Forest	0%
Mixed Open Cover (acres)	0.00	Mixed Open Cover (acres)	0.00
Weighted Rv(mixed)	0.00	Weighted Rv(mixed)	0.00
Wgt. Ld. Rate(mixed)	0.00	Wgt. Ld. Rate(mixed)	0.00
% Mixed Open	0%	% Mixed Open	0%
Managed Turf Cover (acres)	0.11	Managed Turf Cover (acres)	0.11
Weighted Rv (turf)	0.25	Weighted Rv (turf)	0.25
Wgt. Ld. Rate(turf)	0.85	Wgt. Ld. Rate(turf)	0.85
% Managed Turf	46%	% Managed Turf	69%
Impervious Cover (acres)	0.13	ReDev. Impervious Cover (acres)	0.05
Rv(impervious)	0.95	Rv(impervious)	0.95
Wgt. Ld. Rate(imperv.)	0.86	Wgt. Ld. Rate(imperv.)	0.86
% Impervious	54%	% Impervious	31%
Final Site Area (acres)	0.24	Total ReDev. Site Area (acres)	0.16
Final Post Dev Site Rv	0.63	ReDev Site Rv	0.47

Treatment Volume and Nutrient Load

Final Post-Development Treatment Volume (acre-ft)	0.0126	Post-ReDevelopment Treatment Volume (acre-ft)	0.0063	Post-Development Treatment Volume (acre-ft)	0.0063
Final Post-Development Treatment Volume (cubic feet)	548	Post-ReDevelopment Treatment Volume (cubic feet)	272	Post-Development Treatment Volume (cubic feet)	276
Final Post-Development TP Load (lb/yr)	0.20	Post-ReDevelopment TP Load (lb/yr)*	0.14	Post-Development TP Load (lb/yr)	0.07
Final Post-Development TP Load per acre (lb/acre/yr)	0.85	Post-ReDevelopment TP Load per acre (lb/acre/yr)	0.85		
		Max. Reduction Required (Below Pre-ReDevelopment Load)	10%		

TP Load Reduction Required for Redeveloped Area (lb/yr) 0.01

TP Load Reduction Required for New Impervious Area (lb/yr) 0.05

ASD | SKY

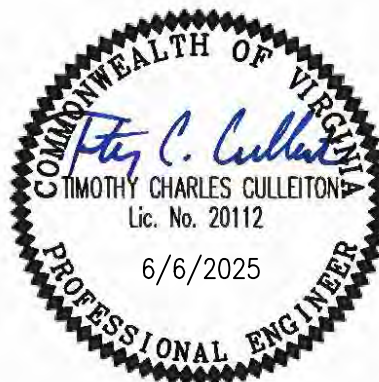
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Associated Space Design, Inc. 2024

REVISIONS		
NO.	DATE	REMARKS
1	6/6/2025	SITE PLAN REVIEW
2	1/24/2025	ISSUED FOR PERMIT AND PRICING
DRAWING TITLE: VRRM SPREADSHEET		

PROJECT NO.: 50184423  
ISSUE DATE: 25.06.06  
DRAWN BY:  
CHECKED BY:

SHEET NUMBER:  
C-SW-301



THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTION- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.

THE DEFINITION OF -AMBSK- ON RM-GARD HAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION

NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE SINGLE EVENT DAMAGE CALCULATION, DSS=WRITE STAGE FREQUENCY,

DSS=READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE=GREEN AND AMPT INFILTRATION

KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1 ID NAVY FEDERAL CREDIT UNION ATM SITE

2 ID FAIRFAX COUNTY, VIRGINIA

3 ID FAIRFAX COUNTY FFM RAINFALL DEPTHS

4 ID 1-, 2-, AND 10-YR STORMS

5 \*DIAGRAM

6 IT 1 1500

7 JR PREC 1-YR 2-YR 10-YR

8 \*\*\*\*\* START PRE-DEVELOPMENT CONDITIONS \*\*\*\*\*

9 KM OFFSITE TO OUTFALL 1 OF 1

10 \* 0.13 AC @ RCN=81 @ TC=5 MIN

11 BA 0.0002 21

12 FB 1.0

13 \* NOAA ATLAS C RAINFALL DISTRIBUTION

14 IN 6

15 PC 0 0.0013 0.0033 0.0034 0.0044 0.0055 0.0065 0.0076 0.0087 0.0098

16 PC 0.0019 0.0121 0.0132 0.0143 0.0153 0.0167 0.0178 0.019 0.0202 0.0218

17 PC 0.0226 0.0238 0.0251 0.0263 0.0276 0.0288 0.0301 0.0314 0.0327 0.034

18 PC 0.0353 0.0366 0.0379 0.0393 0.0406 0.042 0.0434 0.0447 0.0461 0.0475

19 PC 0.0489 0.0504 0.0518 0.0532 0.0547 0.0562 0.0576 0.0591 0.0606 0.0621

20 PC 0.0636 0.0651 0.0667 0.0682 0.0697 0.0713 0.0729 0.0745 0.076 0.0776

21 PC 0.0793 0.0809 0.0826 0.0843 0.0861 0.0879 0.0898 0.0916 0.0936 0.0955

22 PC 0.0975 0.0996 0.1017 0.1038 0.106 0.1082 0.1104 0.1127 0.115 0.1174

23 PC 0.1198 0.1223 0.1247 0.1273 0.1298 0.1324 0.1351 0.1378 0.1405 0.1432

24 PC 0.1461 0.149 0.1521 0.1554 0.1588 0.1623 0.166 0.1699 0.1739 0.178

25 PC 0.1823 0.1868 0.1914 0.1961 0.201 0.2061 0.2117 0.2179 0.2247 0.2321

26 PC 0.24 0.249 0.2591 0.2702 0.2825 0.2955 0.3157 0.337 0.3662 0.4067

27 PC 0.4766 0.5933 0.6338 0.683 0.6843 0.7045 0.7176 0.7298 0.7409 0.751

28 PC 0.76 0.7679 0.7753 0.7821 0.7883 0.7939 0.799 0.8039 0.8086 0.8132

29 PC 0.8177 0.822 0.8261 0.8301 0.834 0.8377 0.8412 0.8446 0.8479 0.851

30 PC 0.854 0.8568 0.8595 0.8622 0.8649 0.8676 0.8702 0.8727 0.8753 0.8778

31 PC 0.8802 0.8826 0.885 0.8873 0.8896 0.8918 0.894 0.8962 0.8983 0.9004

32 PC 0.9025 0.9045 0.9064 0.9084 0.9103 0.9121 0.9139 0.9157 0.9174 0.9191

33 PC 0.9208 0.9224 0.924 0.9256 0.9271 0.9287 0.9303 0.9318 0.9334 0.9349

34 PC 0.9364 0.9379 0.9394 0.9409 0.9424 0.9439 0.9453 0.9468 0.9482 0.9496

35 PC 0.9511 0.9525 0.9539 0.9553 0.9566 0.958 0.9594 0.9607 0.9621 0.9634

36 PC 0.9647 0.966 0.9673 0.9686 0.9699 0.9712 0.9724 0.9737 0.9749 0.9762

37 PC 0.9774 0.9786 0.9798 0.981 0.9822 0.9834 0.9845 0.9857 0.9868 0.9879

38 PC 1

39 LS 81

40 UD 0.05

41 KK Qpre

42 KM PRE-DEVELOPED SITE TO OUTFALL 1 OF 1 (ASSUME FORESTED CONDITION)

43 \* 0.19 AC @ RCN=77 @ TC=10 MIN

44 BA 0.0003 21

45 LS 77

46 UD 0.1

47 KK SFI

48 KM PRE-DEVELOPED SHEET FLOW

49 \* 0.05 AC @ RCN=87 @ TC=5 MIN

50 BA 7.8E-5 21

51 LS 87

52 UD 0.05

53 KK Qex

54 KM TOTAL PRE-DEVELOPED RUNOFF INCLUDING SHEET FLOW

55 KO 21

56 HC 3

57 \*\*\*\*\* END PRE-DEVELOPMENT CONDITIONS \*\*\*\*\*

58 \*\*\*\*\* BEGIN POST-DEVELOPMENT CONDITIONS \*\*\*\*\*

59 KK SWM-1

60 KM ONSITE + OFFSITE TO OUTFALL 1 OF 1 THRU PROPOSED SWM-1

61 \* 0.53 AC @ RCN=86 @ TC=5 MIN

62 BA 0.00039 86

63 LS 86

64 UD 0.05

65 KK SWM-1

66 KM ROUTE THRU PROPOSED SWM-1

67 KO 21

68 RS 1 ELEV 419

69 \* SURFACE AREA (AC) OF SWM STORAGE

70 SA 0.004 0.004

71 \* ELEVATION (FT) OF SWM STORAGE

72 SS 419

73 \* 2 INCH ORIFICE AT INV. 419.00

74 SL 419.08 0.022 0.6 0.5

75 \* 7 FT WEIR AT ELL. 424.50

76 SS 424.5 7 3 1.5

77 KK BP

78 KM ONSITE TO OUTFALL 1 OF 1 THAT BYPASSES PROPOSED SWM-1

79 \* 0.07 AC @ RCN=85 @ TC=5 MIN

80 BA 0.000109 21

81 LS 85

82 UD 0.05

83 KK Qpost

84 KM TOTAL POST-DEVELOPED RUNOFF TO OUTFALL 1 OF 1

85 KO 2

86 HC 2

87 KK SFI

88 KM POST-DEVELOPED SHEET FLOW

89 \* 0.05 AC @ RCN=91 @ TC=5 MIN

90 BA 7.8E-5 91

91 LS 91

92 UD 0.05

93 KK Qprop

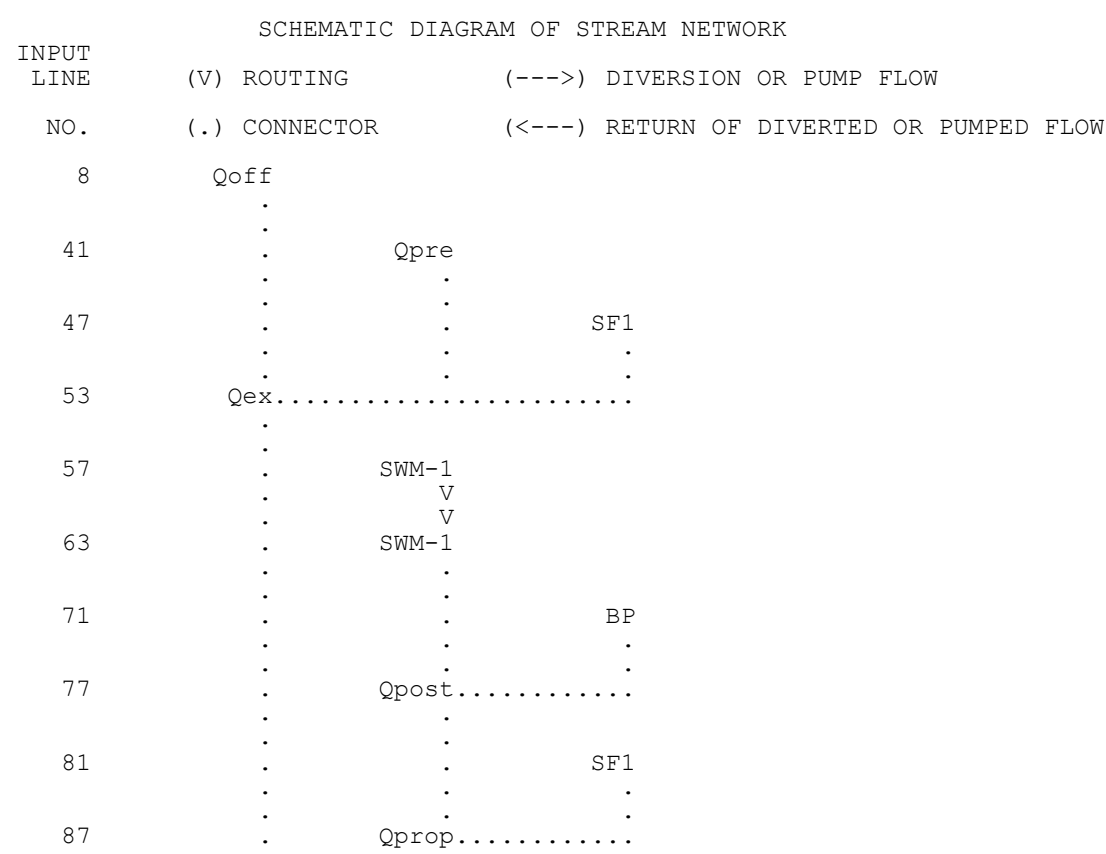
94 KM TOTAL POST-DEVELOPED RUNOFF INCLUDING SHEET FLOW

95 KO 21

96 HC 2

97 \*\*\*\*\* END POST DEVELOPMENT \*\*\*\*\*

98 Z2



PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS

Flows in cubic feet per second, area in square miles

Time to peak in hours

OPERATION	STATION	AREA	PLAN	RATIOS APPLIED TO PRECIPITATION			1-YR	2-YR	10-YR
				RATIO 1	RATIO 2	RATIO 3			
HYDROGRAPH AT	Qoff	.00	1	FLOW	TIME		0.18	0.25	0.50
							12.12	12.12	12.12
HYDROGRAPH AT	Qpre	.00	1	FLOW	TIME		0.17	0.26	0.55
							12.15	12.15	12.15
HYDROGRAPH AT	SFI	.00	1	FLOW	TIME		0.10	0.13	0.23
							12.12	12.12	12.12
3 COMBINED AT	Qex	.00	1	FLOW	TIME		0.43	0.61	1.23
							12.12	12.12	12.12
HYDROGRAPH AT	SWM-1	.00	1	FLOW	TIME		0.35	0.47	0.85
							12.12	12.12	12.12
ROUTED TO	SWM-1	.00	1	FLOW	TIME		0.11	0.14	0.20
							12.25	12.28	12.33
HYDROGRAPH AT	BP	.00	1	FLOW	TIME		0.11	0.15	0.28
							12.12	12.12	12.12
2 COMBINED AT	Qpost	.00	1	FLOW	TIME		0.21	0.27	0.44
							12.12	12.12	12.12
HYDROGRAPH AT	SFI	.00	1	FLOW	TIME		0.11	0.15	0.24
							12.12	12.12	12.12
2 COMBINED AT	Qprop	.00	1	FLOW	TIME		0.32	0.42	0.69
							12.12	12.12	12.12

TOTAL EXISTING RUNOFF INCLUDING SHEET FLOW

WSELS IN STORMCAPTURE, SWM-1

TOTAL PROPOSED RUNOFF INCLUDING SHEET FLOW

DETENTION METHOD SUMMARY																
To Outfall	Storm Event	P	DAAC/RES		DARCN		Runoff Depth (d)		Runoff Volume (RV)		Q <sub>PRE</sub>	Q <sub>EB</sub>	Q <sub>POST</sub>	Q <sub>ALLOW</sub>	Q <sub>POST</sub>	Comments
			PRE	POST	PRE	POST	PRE	POST	PRE	POST	Q <sub>PRE</sub>	Q <sub>EB</sub>	Q <sub>POST</sub>	Q <sub>ALLOW</sub>		
			(IN)	(AC)	(AC)	(AC)	(IN)	(AC-IN)	(AC-IN)	(AC-IN)	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	
1 OF 1	1-YR	2.62	0.19	0.19	77.00	89.00	0.82	1.56	0.16	0.30	0.17	0.09	0.18	0.27	0.21	Q <sub>POST</sub> ≤ Q <sub>ALLOW</sub> (1-YR ENERGY BALANCE SATISFIED)
1 OF 1	2-YR	3.17	0.19	0.19	77.00	89.00	1.19	2.05	0.23	0.39	0.26	0.15	0.25	0.40	0.27	Q <sub>POST</sub> ≤ Q <sub>ALLOW</sub> (2-YR ENERGY BALANCE SATISFIED)
1 OF 1	10-YR	4.87	0.19	0.19	77.00	89.00	2.52	3.65	0.48	0.69	0.55	0.38	0.50	0.88	0.44	Q <sub>POST</sub> ≤ Q <sub>ALLOW</sub> (10-YR ENERGY BALANCE SATISFIED)

PRE = Pre-development (Forested Conditions)

POST = Post-development

EB = Energy Balance (concentrated flow only)

P = 24-hour rainfall depth

DA = Disturbed area subject to EB

RCN = Runoff curve number subject to EB

d = depth of runoff subject to EB

RV = Runoff volume from disturbed area

Q<sub>PRE</sub> = Pre-development peak flow rate (from disturbed areas to be developed as concentrated flow)

Q<sub>EB</sub> = Energy balance peak flow rate

Q<sub>POST</sub> = Peak flow rate from undisturbed areas (offsite areas)

Q<sub>ALLOW</sub> = Allowable release rate (Q<sub>EB</sub>+Q<sub>POST</sub>)

Q<sub>POST</sub> = Post-development peak flow rate to outfall

d = (P-0.2S)<sup>2</sup>/(P+0.8S); where S=1000/CN-10

RV = DAX d

Q<sub>EB</sub> = Q<sub>PRE</sub>CF X RV<sub>PRE</sub>/RV<sub>POST</sub>

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Associated Space Design, Inc. 2024

NO.	DATE	REVISIONS
2	6/6/2025	SITE PLAN REVIEW
1	TBD	AS01
0	1/24/2025	ISSUED FOR PERMIT AND PRICING
NO.	DATE	REMARKS

DRAWING TITLE:  
SWM COMPUTATIONS

PROJECT NO.:  
50184423

ISSUE DATE:  
25.06.06

DRAWN BY:

CHECKED BY:

SHEET NUMBER:

C-SW-302



NO.	DATE	REVISIONS	REMARKS
1	06/2025	TBD	SITE PLAN REVIEW
2	06/2025	TBD	ASD 01
3	06/2025	TBD	ISSUED FOR PERMIT AND PRICING
4	06/2025	TBD	
5	06/2025	TBD	
6	06/2025	TBD	
7	06/2025	TBD	
8	06/2025	TBD	
9	06/2025	TBD	
10	06/2025	TBD	

DRAWING TITLE:  
SWM DETAILS

PROJECT NO.:  
50184423

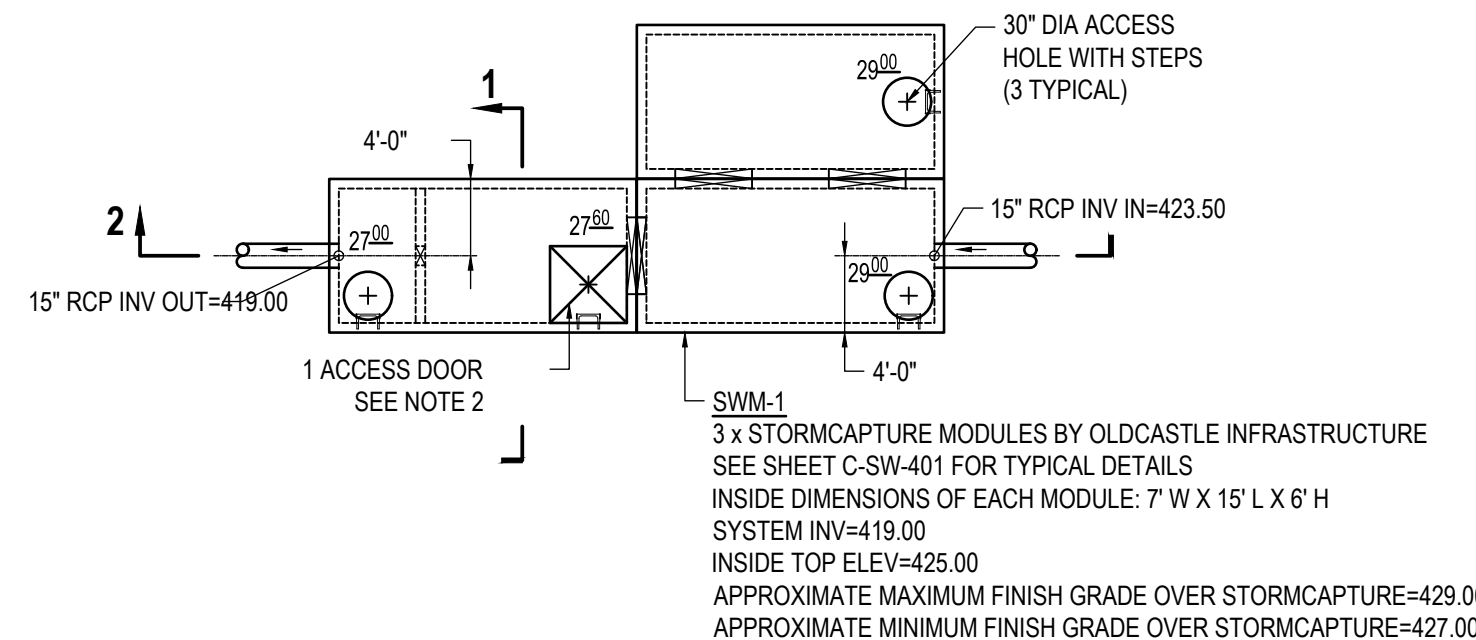
ISSUE DATE:  
25.06.06

DRAWN BY:  
TBD

CHECKED BY:

SHEET NUMBER:

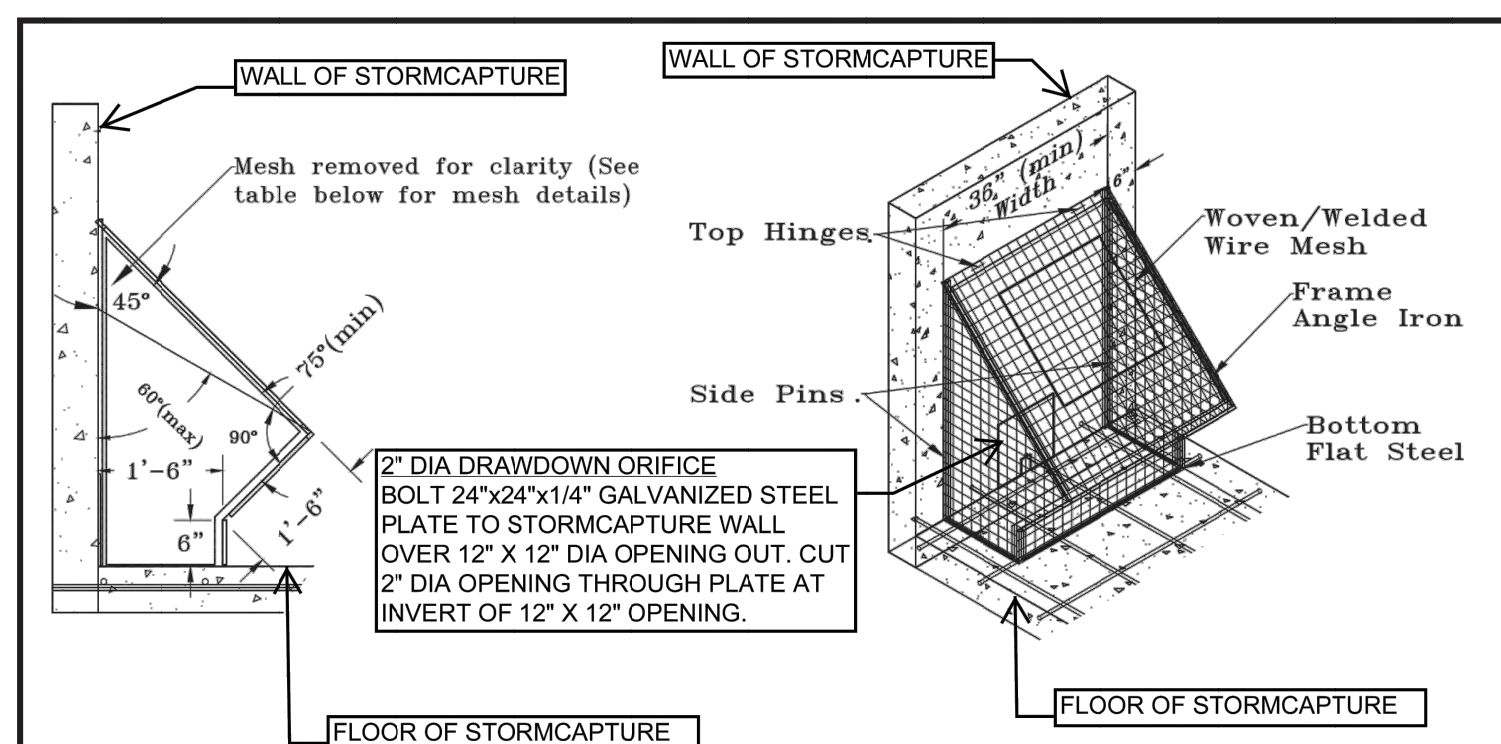
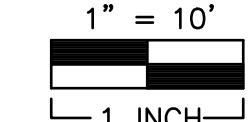
C-SW-400



NOTES:

- PRECAST SWM DEVICE SHOWN HEREON IS A STORMCAPTURE® DETENTION SYSTEM MANUFACTURED BY OLDCASTLE INFRASTRUCTURE. ALTERNATE PRECAST DETENTION STRUCTURES MAY BE CONSIDERED BY THE CONTRACTOR BUT ANY CHANGES MADE TO THIS APPROVED SITE PLAN WILL REQUIRE A SITE PLAN REVISION TO FAIRFAX COUNTY FOR REVIEW AND APPROVAL.
- PROVIDE 4'X4' OPENING AND DRILLED STEPS TO ACCOMMODATE A 4'X4' DRAINAGE ACCESS DOOR. DOOR SHALL BE FLUSH TO FINISHED GRADE. HEAVY DUTY TO WITHSTAND VEHICULAR TRAFFIC (MIN. H-20 LOADING), HINGED WITH LIFT HANDLE, AND LOCKABLE.
- SEE STORM PROFILES FOR PIPE LENGTHS, PIPE SLOPES AND CONTINUATION OF STORM SEWER.
- ALL ACCESS HOLE RIM ELEVATIONS SHOWN ARE APPROXIMATE. FINAL RIM ELEVATIONS SHALL BE ADJUSTED TO MATCH FINISH GRADE WITH NO PONDING.
- REQUIRED MINIMUM LOAD RATING FOR ALL STRUCTURES IS HS-20.
- NON-SHRINK GROUT PER ASTM C1107 SHALL BE USED FOR ALL PIPE CONNECTIONS TO THE STORMCAPTURE® FACILITY.
- ORIFICE PLATE SHALL BE 1/2" THICK STAINLESS STEEL OR EQUAL. PLATE TO BE SECURED TO CONCRETE WALL WITH HILTI ANCHOR BOLTS OR EQUAL. PLATE MUST BE DESIGNED BY MANUFACTURER TO BE WATERTIGHT AGAINST CONCRETE WALL AND REMOVABLE FOR MAINTENANCE.

SCALE IN FEET



Trash Rack - Riser

Isometric View

Mesh Details					Min. Mesh Opening Size
Component → Trash Rack Width	Frame Angle Iron	Bottom Flat Steel	Woven/Welded Wire Mesh	Steel Rod for Grate	
> 36"	1 1/2" X 1 1/2" X 1/4"	1 1/2" X 3/4"	1/4"	1/4"	1"
between 36" - 66"	2" X 2" X 1/4"	2" X 3/4"	3/8"	3/8"	
60" and larger	3" X 3" X 1/4"	3" X 3/4"	3/4"	3/4"	

**Trash Rack General Notes:**

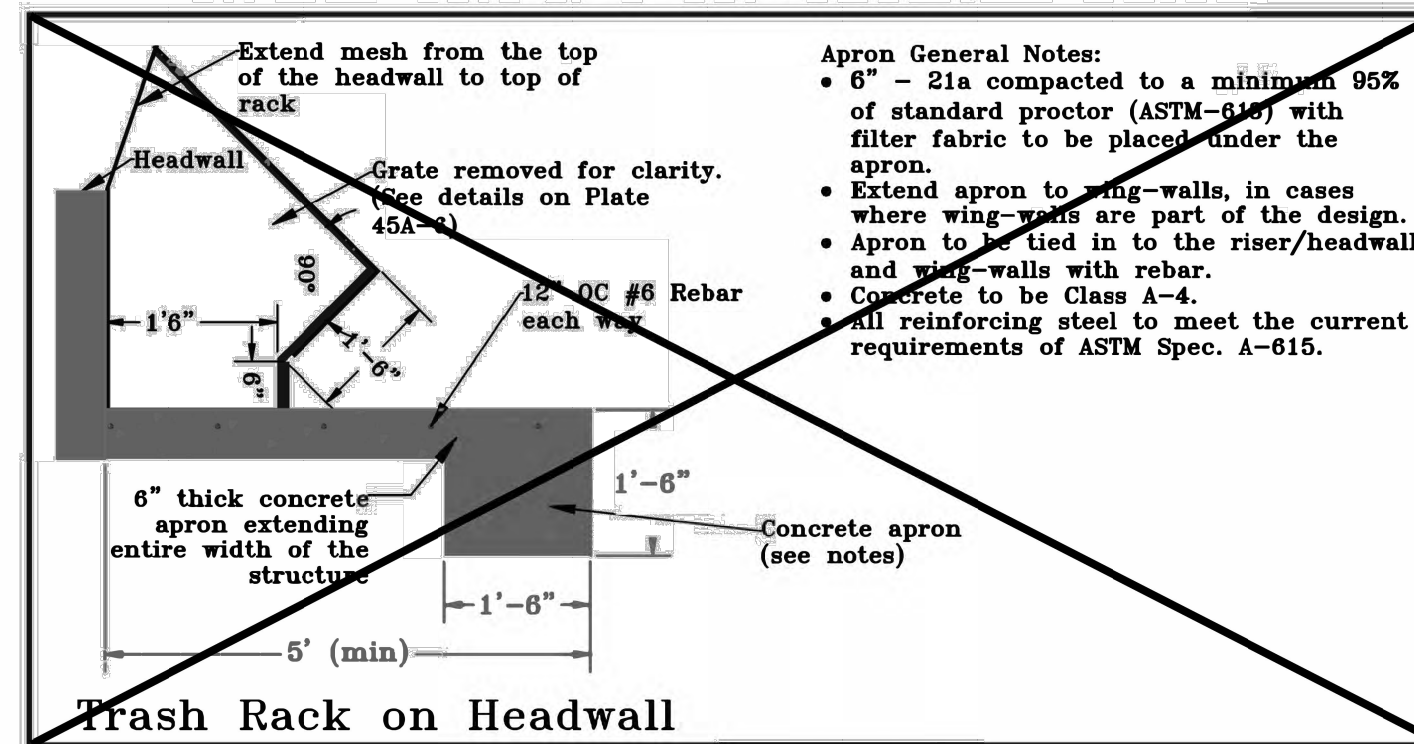
- 3' minimum trash rack width is required where available.
- Trash rack/mounting components to be hot-dip galvanized.
- All mounting hardware to be stainless steel and threads to be coated in anti-sieze.
- Minimum 1/2" x 3" mounting bolts to be used for trash rack.
- Trash racks to be mounted using top hinge or side pin connection as per details shown in Plate C-SW-6. All hinged/pinned trash racks to have locking mechanism. Mechanism to be installed on the upper half to minimize potential to become inaccessible due to submergence under water/sediment.
- Mesh opening size to be 1/2" of the diameter/width of orifice being protected, but not smaller than minimum mesh opening size provided in table above.

Additional Notes

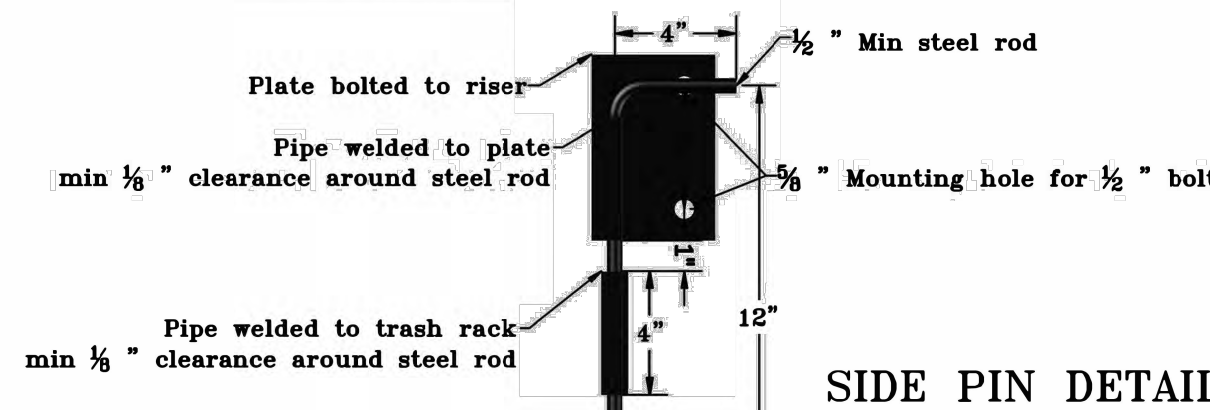
- Large trash racks may be painted with dark anti-corrosive paint, in lieu of galvanizing.
- Additional structural reinforcements to be added to trash rack frame as deemed necessary to support all anticipated loads.
- A 3' x 3' (min) access door with locking mechanism to be installed on front face.
- Trash Racks mounted on Headwalls:
  - In case of space restrictions at headwalls, use 2' min width of trash rack.
  - Add wire mesh on the back of trash rack to the top of headwall as shown in Plate C-SW-6.

LOW FLOW/BMP DRAWDOWN  
DEVICE

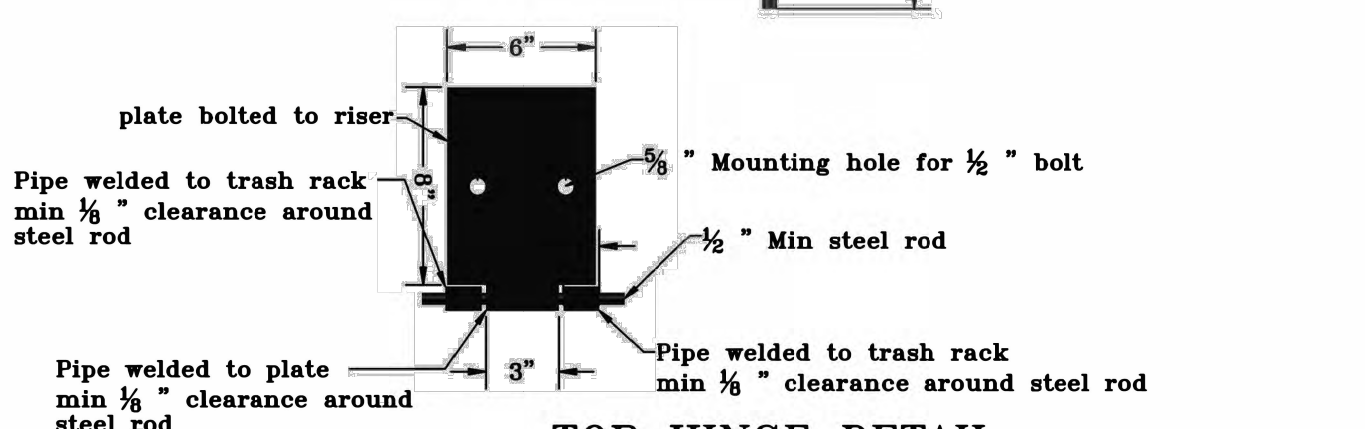
PLATE NO.  
1 OF 2



Trash Rack on Headwall



SIDE PIN DETAIL

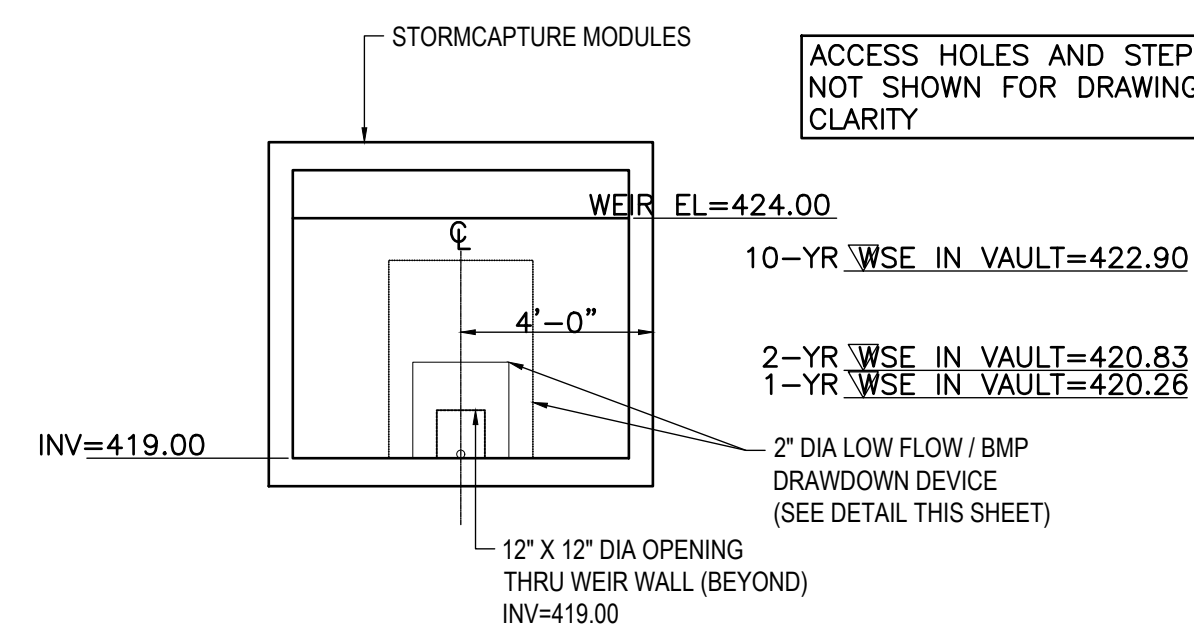


TOP HINGE DETAIL

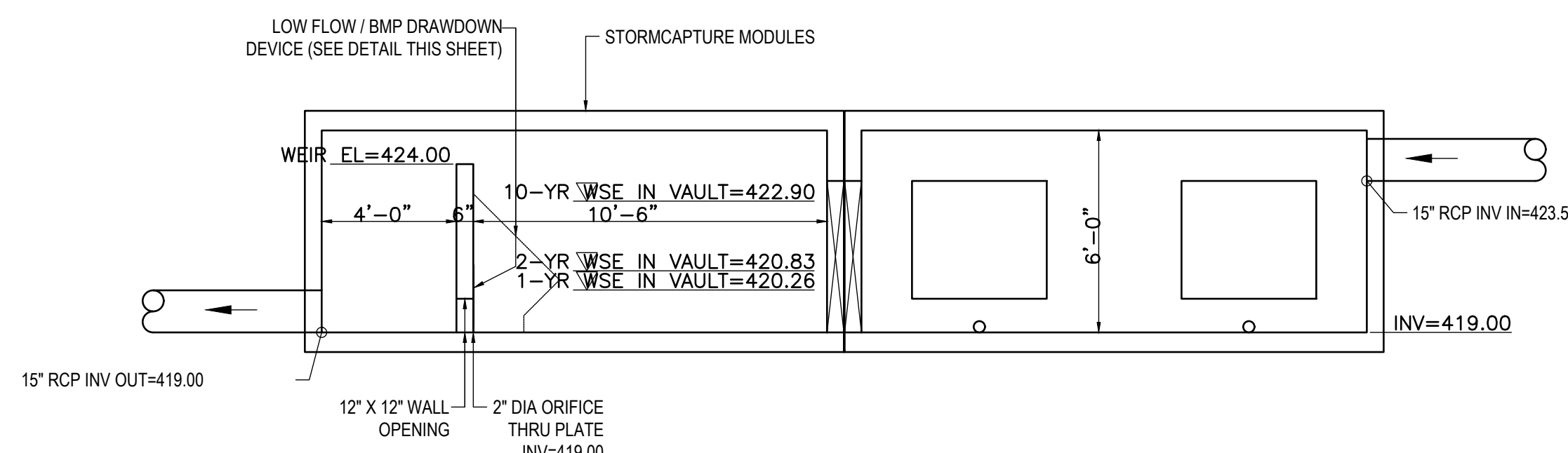
LOW FLOW/BMP DRAWDOWN  
DEVICE  
(MOUNTING DETAILS)

PLATE NO.  
2 OF 2

NOT TO SCALE

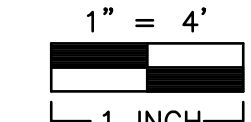


SECTION 1-1



SECTION 2-2

SCALE IN FEET



STORMCAPTURE®  
TYPICAL  
DETAILS



NAVY FEDERAL  
CREDIT UNION  
HQ2 ATM ADDITION

1007 ELECTRIC AVE  
VIENNA, VA 22180

**Dewberry**  
Dewberry Engineers Inc.  
8401 Arlington Boulevard  
Fairfax, VA 22031  
703 698 9440 Phone  
703 849 4881 Fax

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Associated Space Design, Inc. 2024

NO.	DATE	REVISIONS
2	6/6/2025	SITE PLAN REVIEW
1	TBD	AS01
0	1/24/2025	ISSUED FOR PERMIT AND PRICING
NO.	DATE	REMARKS
REVISIONS:		

SWM DETAILS

PROJECT NO.: 50184423  
ISSUE DATE: 25.06.06  
DRAWN BY: CHECKED BY:

SHEET NUMBER:  
C-SW-401

**GENERAL NOTES:**

THE STORMCAPTURE SYSTEM BY OLDCASTLE STORMWATER SOLUTIONS IS PART OF THE STORMWATER MANAGEMENT SYSTEM FOR THE RESPECTIVE SITE, AS PREPARED BY THE PROJECT DESIGN ENGINEER. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO DETERMINE DESIGN LOADS, PRE-TREATMENT AND POST-TREATMENT REQUIREMENTS, STORAGE VOLUME, AND ENSURE THE FINAL DESIGN MEETS ALL CONVEYANCE AND STORAGE REQUIREMENTS. SYSTEM DESIGN AND TYPE, INCLUDING LIFTING REQUIREMENTS, COVER HEIGHT AND MODULE SIZE DETERMINE THE FOUNDATION TYPE AND REQUIREMENTS AS STATED HEREIN. ANY VARIATIONS FOUND DURING CONSTRUCTION FROM THE SITE AND SYSTEM ANALYSIS MUST BE REPORTED TO THE PROJECT DESIGN ENGINEER. THE PROJECT DESIGN ENGINEER IS RESPONSIBLE FOR OBTAINING A GEOTECHNICAL ENGINEERING REPORT VERIFYING THE BEARING CAPACITY STATED IN DESIGN NOTES.

**DESIGN NOTES:**

- DESIGN LOADINGS:
  - ASHTO HS20-44 W/ IMPACT
  - DEPTH OF COVER: 4'-0" TO 5'-0"
  - ASSUMED WATER TABLE: BELOW BOTTOM
  - EQUIVALENT FLUID PRESSURE: 1.45 PCF/FT
  - LATERAL LINE LOAD SURCHARGE: 40 PCF/FT
  - NO LATERAL SURCHARGE FROM ADJACENT STRUCTURES
  - CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE 5,000 PSI
  - STEEL REINFORCEMENT: REBAR, ASTM A615, GRADE 60
  - CEMENT: ASTM C150 SPECIFICATION
  - STORMCAPTURE MODULE TYPE: DETENTION
  - REQUIRED BASE LAYER DEPTH: 2" SAND BEDDING LAYER
  - REQUIRED NATIVE ALLOWABLE SOIL BEARING PRESSURE: 2,500 PSF
  - REFERENCE STANDARDS:
    - ASTM C 880
    - ASTM C 941
    - ASTM C 113
  - LESS THAN 9" OR GREATER THAN 2'-0" OF COVER REQUIRES CUSTOM STRUCTURAL DESIGN AND MAY REQUIRE THICKER SUBGRADE
- INSTALLATION NOTES:**

STORMCAPTURE MODULES ARE TO BE INSTALLED IN ACCORDANCE WITH ASTM C881, INSTALLATION OF UNDERGROUND PRECAST UTILITY STRUCTURES. PROJECT PLAN AND SPECIFICATIONS MUST BE FOLLOWED ALONG WITH ANY APPLICABLE REGULATIONS.

  - PLANLINE, GRADE AND ELEVATIONS MUST BE FOLLOWED
  - WHERE SPECIFIED, AN 8 OZ. NONWOVEN GEOTEXTILE FABRIC MUST BE USED AS A SEPARATION LAYER AROUND THE STORMCAPTURE SYSTEM
  - PERMEATION IN THE GEOTEXTILE MAY ONLY BE MADE WITH SMOOTH WALL PIPES MAKE PENETRATIONS FOR ALL OUTLETS BEFORE MAKING PENETRATIONS FOR ANY INLETS
  - SUBGRADE MATERIAL, IF SPECIFIED, SHALL BE CLEAN, DRYABLE, CRUSHED AGGREGATE COMPACTED AS DIRECTED BY THE ENGINEER. OLDCASTLE RECOMMENDS SIZE 5, 56, OR 57 (PER ASTM C293)
  - DESIGNATED EMBEDDED LIFTERS MUST BE USED. USE PROPER RIGGING TO ASSURE ALL LIFTERS ARE EQUALLY ENGAGED WITH A MINIMUM 60 DEGREE ANGLE ON RINGS AS NOTED AND IN ACCORDANCE WITH OLDCASTLE LIFTING PROCEDURES
  - MODULES MUST BE PLACED AS CLOSE TOGETHER AS POSSIBLE AND GAPS SHALL NOT BE GREATER THAN 3/4". ALL EXTERIOR OR SEWER JOINTS SHALL BE COVERED WITH A MIN. 8" JOINT WRAP OR RUBBER AND TOP CS-102 CONSEAL OR EQUIVALENT. IN A CUMMEL DESIGN
  - INSTALL ONE ROW CS-102 CONSEAL OR EQUIVALENT BETWEEN PRECAST PIECES
  - AUTHORIZATION SHALL BE GIVEN BY THE PROJECT ENGINEER OR DESIGNATED PERSON
  - NO LIFTING EQUIPMENT OR BACKFILL FOR THE SYSTEM CASE MAY BE TAKEN DURING PLACEMENT OF BACKFILL NOT TO DISPLACE MODULES OR JOINT WRAP. BACKFILL SHALL BE COMPACTED TO 90% STANDARD PROCTOR DENSITY OR AS SPECIFIED AND SHALL NOT BE COMPACTED WITHIN 6" OF MODULE
  - CONSTRUCTION EQUIPMENT EXCEEDING DESIGN LOADINGS SHALL NOT BE ALLOWED ON STRUCTURE
  - TERMOGUTS TO BE KNOCKED OUT AT SPECIFIED LOCATIONS IN FIELD BY OTHERS. SEE SITE LAYOUT FOR LOCATIONS

**INLETS AND RISERS:**

ALL PIPE INLETS SHALL EXTEND INSIDE MODULE A MINIMUM OF 4". PLACE A NON-SHRINK, NON-METALIC GROUT, MIN. 3,000 PSI IN ANNULAR SPACE TO ELIMINATE ALL VOIDS.

**REVISIONS**

REVISION	DATE	SHEETS	DESCRIPTION OF REVISION

**STORMCAPTURE**

TABLE OF CONTENTS

NOTES	SHEETS
GENERAL NOTES	1
TYPICAL ELEVATION	2
EXTERIOR DETAIL	3
INTERIOR DETAIL	4

NOTE: THIS VIEW IS FOR ILLUSTRATION PURPOSES ONLY TO SHOW FEATURES OF THE SYSTEM. ACTUAL LAYOUT VIEWS BY PROJECT DESIGN ENGINEER. ALL PERIMETER WALLS ARE SOLID.

**TYPICAL ISO VIEW**  
N.T.S.

**STORMCAPTURE**

\*THIS MUST BE FILLED OUT BEFORE MANUFACTURING

APPROVED: ☐ NO EXCEPTIONS TAKEN  
APPROVED AS NOTED: ☐  
REVISE AND RESUBMIT: ☐

**- PRELIMINARY -  
NOT FOR CONSTRUCTION**

OLDCASTLE Stormwater Solutions

NO CONSTRUCTION SHALL BE TAKEN WITHOUT THE WRITTEN CONSENT OF OLDCASTLE STORMWATER SOLUTIONS. ANY VIOLATION OF THIS POLICY SHALL BE REPORTED TO THE APPROPRIATE AGENCIES FOR ENFORCEMENT. OLDCASTLE STORMWATER SOLUTIONS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PROPERTY OR PERSONS CAUSED BY THE USE OF THIS DRAWING.

STORMCAPTURE  
GENERAL DETAIL

DATE: 6/6/2025  
BY: JTS  
CHECKED BY: JTS  
DESIGNED BY: JTS  
SCALE: 1/4" = 1'-0"

**STORMCAPTURE**

**TYPICAL ELEVATION**  
SCALE: 3/4" = 1'-0"

NOTE: TERMOGUTS TO BE KNOCKED OUT AT SPECIFIED LOCATIONS ONLY (BY OTHERS).

**- PRELIMINARY -  
NOT FOR CONSTRUCTION**

OLDCASTLE Stormwater Solutions

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STORMCAPTURE  
TYPICAL ELEVATION

DATE: 6/6/2025  
BY: JTS  
CHECKED BY: JTS  
DESIGNED BY: JTS  
SCALE: 3/4" = 1'-0"

**STORMCAPTURE**

**GRATED INLET DETAIL**  
SCALE: 3/4" = 1'-0"

**CONSEAL CS-102 BUTYL RUBBER SEALANT**  
N.T.S.

**MODULE JOINT DETAIL**  
SCALE: 1/2" = 1'-0"

**MANWAY ACCESS DETAIL**  
SCALE: 3/4" = 1'-0"

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STORMCAPTURE  
EXTERIOR DETAIL

DATE: 6/6/2025  
BY: JTS  
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DESIGNED BY: JTS  
SCALE: 1/2" = 1'-0"

**STORMCAPTURE**

**STORM CAPTURE PLAN VIEW**  
SCALE: 1/4" = 1'-0"

**VIEW A**  
SCALE: 1/4" = 1'-0"

**VIEW B**  
SCALE: 1/4" = 1'-0"

**TOP MODULE LIFTING DETAIL**  
N.T.S.

**BOTTOM MODULE LIFTING DETAIL**  
N.T.S.

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STORMCAPTURE  
INTERIOR DETAIL

DATE: 6/6/2025  
BY: JTS  
CHECKED BY: JTS  
DESIGNED BY: JTS  
SCALE: 1/4" = 1'-0"

FOR INFORMATION  
ONLY

STORMCAPTURE®  
TYPICAL  
DETAILS









## STORMCAPTURE®

## Installation Manual



## INTRODUCTION

StormCapture (shown in **Figure 1**) is a total stormwater management system. The highly-configurable module has many solutions for detention, retention, infiltration, treatment and harvesting. Multiple modules can be arranged into endless formations to meet the needs of even the most challenging sites. The rectangular design facilitates rapid and easy installation, plus stress-free maintenance. The precast concrete provides long-term reliability and low lifecycle costs.

The engineer of record is responsible for reviewing and approving the system design, storage volume, required depth of cover, vehicular loading, water table elevation, backfill material and soil bearing capacity. Any variations found during construction to those stated on the plans must be reported to the engineer and Oldcastle Infrastructure.

FIGURE 1

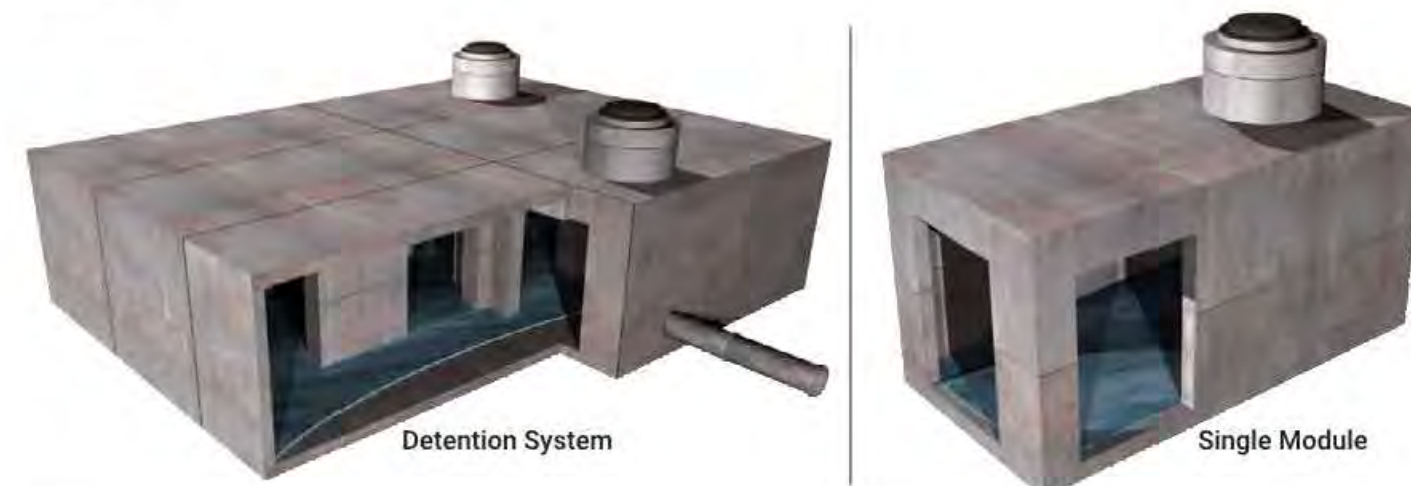


FIGURE 2

StormCapture System During Installation Process



## SITE PREPARATION

## TIMING

- Excavation and subgrade shall be completed prior to StormCapture delivery.

## EXCAVATION - See Figures 3 &amp; 4

- Depth
  - Concrete invert: Depth of fill\* + Module outside height + 2" subgrade depth
  - Open bottom: Depth of fill\* + Module outside height + subgrade depth\*\*
  - \* 6" minimum, 5" maximum, unless otherwise noted
  - \*\* Subgrade depth determined in accordance with StormCapture Tech Note SC-01
- Excavation shall be large enough to allow access around structure for backfilling and compaction equipment.
- Trench sloping shall follow OSHA requirements.
- To prevent excessive water pressure build up on the outside of the modules, the site must be prepared and graded for proper drainage around the StormCapture system.
- Dewatering is required when water level is above bottom of subgrade.

## SUBGRADE - See Figures 3 &amp; 4

- Native soil shall be level and compacted adequately to allow for required bearing capacity on design documents.
- Add 2" of sand for leveling purposes.
- Geotextile fabric and containment membrane liner.
  - An 8 oz. non-woven geotextile fabric must be used as a separation layer around the StormCapture system.
  - When the project requires a containment membrane liner, a layer of 8 oz. non-woven geotextile fabric must be used on both the inside and outside face of the liner.
  - Install containment membrane liner per manufacturer's recommendations.
- Aggregate bearing layer - See **Figure 3**
  - Open-bottom modules only are required to be placed on a crushed aggregate bearing layer to a depth in accordance with StormCapture Tech Note SC-01. Material shall be clean, durable crushed aggregate compacted as directed by the engineer of record. Oldcastle recommends size 5, 56 or 57 (per ASTM C33).
  - Extend aggregate bearing layer a minimum of 1' around the system perimeter.
  - Aggregate bearing layer must be level and compacted prior to module placement.
  - An 8 oz. non-woven geotextile fabric must be used as a separation layer around the aggregate material and StormCapture system.

*Note: Further investigation by a geotechnical engineer may be required where there are concerns with seasonally high water table, and/or poor soil conditions such as low allowable bearing capacity, permafrost and seasonal freeze/thaw cycles.*

## DELIVERY &amp; INSTALLATION

StormCapture modules are to be installed in accordance with ASTM C891-90, Installation of Underground Precast Utility Structures. Project plan and specifications must be followed along with any applicable regulations.

## TIMING

- Plan for first delivery of StormCapture modules after site preparation is completed.
- Individual pieces can be installed in as little as 10 minutes.

## DELIVERY

- Verify that equipment can handle module weights as noted on construction documents prior to delivery.
- StormCapture modules will be delivered on flatbed trucks.

## HANDLING

- StormCapture modules are lifted by the designed embedded lifters at points provided by Oldcastle (**Figure 5**).
- Designed embedded lifters must be used. Use proper rigging to assure all lifters are equally engaged with a minimum 60° angle on slings (**Figure 6**).
- Special lifting clutches are required and shall be coordinated with the producing plant.
- Always follow safety protocols for handling StormCapture modules during installation as illustrated on this page.
- Never stand under load (**Figure 7**).
- Never place hands in the lift gear (**Figure 8**).
- Never place hands under load (**Figure 9**).

## PLACEMENT

- Use the plan line, grade and elevations shown on the construction documents to install the modules. The sand bedding or aggregate bearing layer must be level.
- Modules must be placed as close together as possible with gaps no greater than 3/4".
- All vertical & top joints shall be covered with an 8" minimum width self-adhesive joint wrap as shown in **Figure 10**.
- Horizontal joints between modules or slabs shall be sealed with Con Seal CS-102 butyl rubber sealant as shown in **Figure 11**.
- Seal pipe penetrations to containment membrane liner with pipe boots per liner manufacturer's recommendations.

## FIGURE 5

## EMBEDDED LIFTERS



FIGURE 6

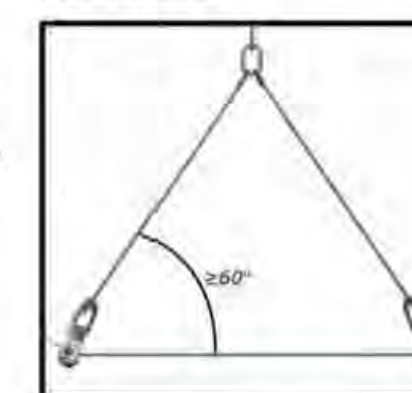


FIGURE 7



NEVER UNDER LOAD

FIGURE 8



NO HAND IN LIFT GEAR

FIGURE 9



NO HAND UNDER LOAD

FIGURE 10

Sealed Joints Between Modules

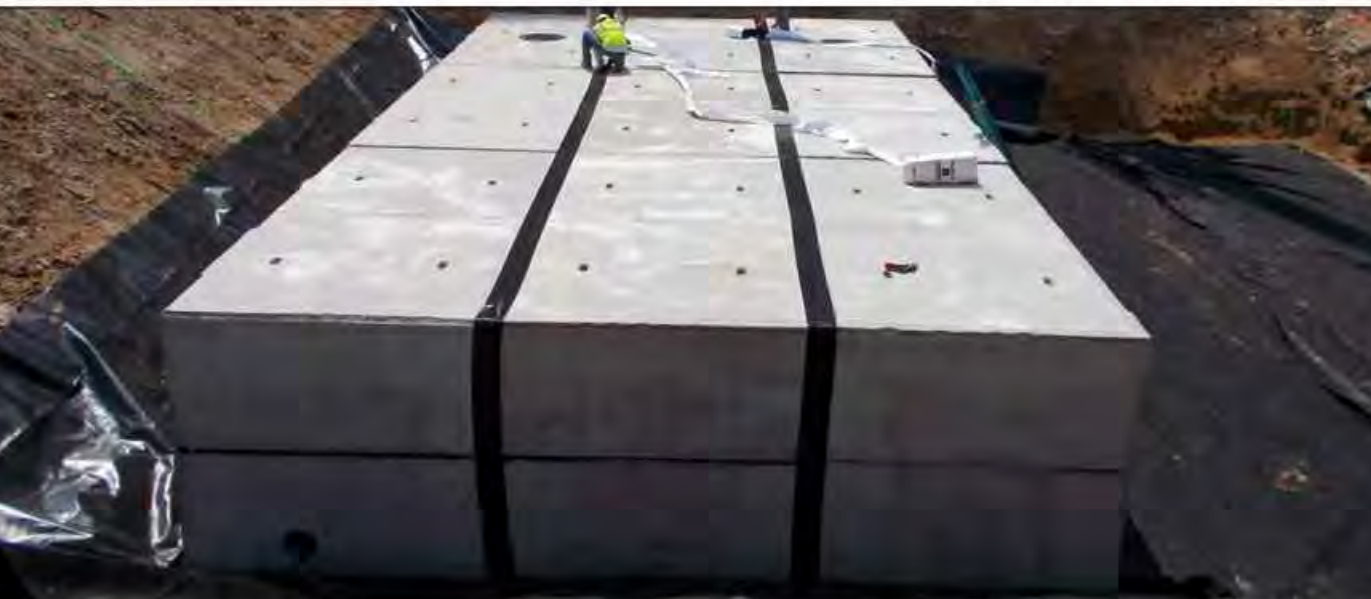
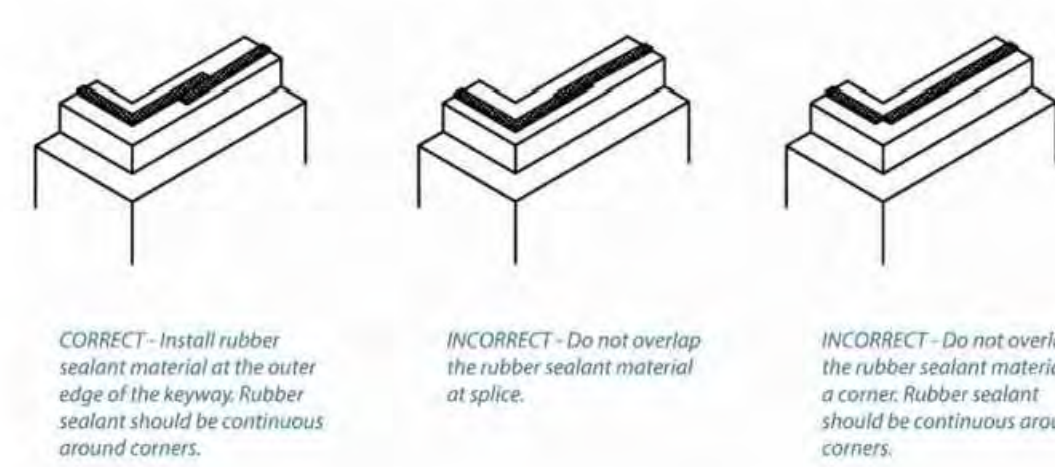


FIGURE 11

Keyways must be free of dirt, rocks and water. Rocks and dirt prevent the vault sections from seating and sealing properly. Remove all protective paper from rubber sealant material. Splice rubber sealant material with a "side by side" joint, away from corners. Corner splicing will not seal properly.



FOR INFORMATION ONLY

STORMCAPTURE®  
TYPICAL  
DETAILS

ASD | SKY

3030 Clarendon Blvd.  
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Arlington, VA 22201  
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REVISIONS		SITE PLAN REVIEW
2	6/6/2025	ASD 01
1	TBD	ISSUED FOR PERMIT AND PRICING
0	1/24/2025	DATE: REMARKS:
DRAWING TITLE: SWM DETAILS		
PROJECT NO: 50184423		
ISSUE DATE: 25.06.06		
DRAWN BY: CHECKED BY:		
SHEET NUMBER: C-SW-403		



FOR INFORMATION  
ONLYSTORMCAPTURE®  
TYPICAL  
DETAILSDRAWING TITLE:  
SWM DETAILSPROJECT NO.:  
50184423  
ISSUE DATE:  
25.06.06  
DRAWN BY:  
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SHEET NUMBER:

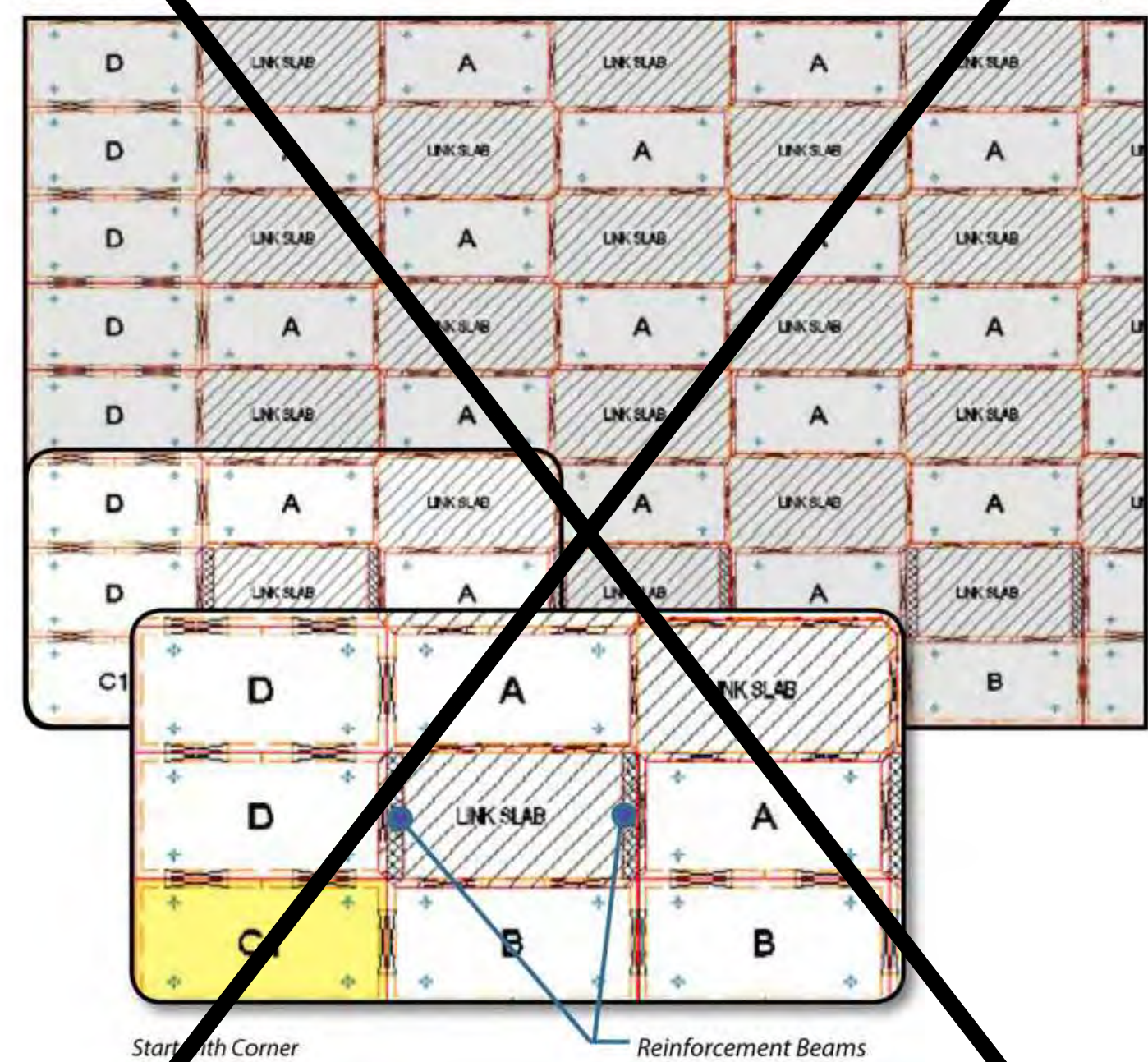
C-SW-404

**LINKSLAB® PROCEDURE**

These procedures reference the diagram below. This diagram is not indicative of all site layouts. Refer to the site plan for the project specific configuration.

**FIGURE 13**

Example Layout

**BACKFILL**

Once all modules are in place with joints sealed and geotextile fabric wrapped, the StormCapture system shall be inspected by the engineer of record or an accepted representative. Upon approval, backfilling can begin.

- Do not compact within 6" of module to avoid damaging the system. Care shall be taken during placement of backfill not to displace modules, joint wrap, containment membrane liner or geotextile fabric.
- Backfilling shall be in 1' lifts with proper compaction between lifts. Typical backfill shall be compacted to 95% standard proctor density or as specified.
- Expansive soil material shall not be used as backfill around the structure.
- Compaction shall be adequate to support expected loads on top of the system and surrounding area. Consult with geotechnical engineer for the project.
- Once installed, StormCapture modules are ready for paving or overburden material (Figure 14).
- Finished grading, paving and landscaping shall be per construction documents.
- Construction equipment exceeding design loading shall not be allowed on structure. Consult Oldcastle Infrastructure if unsure.
- Contact Oldcastle Infrastructure and the engineer of record if the live loads are greater than HS-20.
- Track vehicles including D-4 type dozers or lighter are permitted.

**FIGURE 14**

Backfill

**INSTALLATION IS NOW COMPLETE**

Project specific conditions may apply. Please refer to design documents for any special circumstances regarding installation or infiltration. **Oldcastle Infrastructure is not liable for installation.**

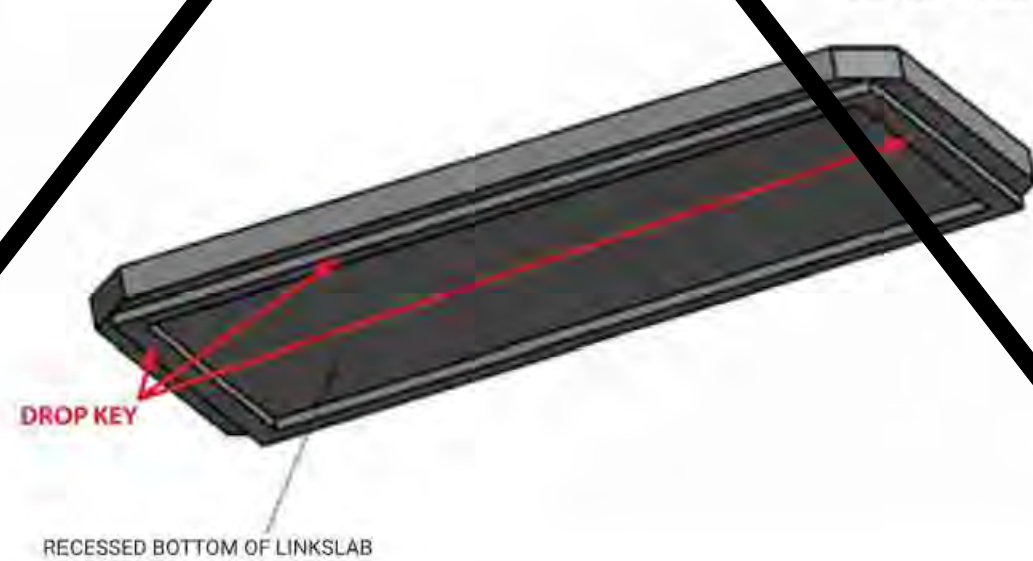
**LINKSLAB PROCEDURE**

Maintaining proper line and grade is critical to installation. A qualified surveyor on the site with proper equipment is recommended to ensure a square, level and straight layout. Subgrade must be compacted.

1. Starting the corner of the layout and place the first bottom module C1.
2. Place adjacent bottom modules B, B, D, D. Be sure to set the corners square and straight (from C1 up with D modules, and from C1 right with B modules).
3. Where called out on plans, place reinforcement beams between the modules where the LinkSlab will sit (between B and A). Reinforcement beams may not be required at all locations, so refer to the project specific configuration.
4. Place interior modules A, A.
  - Check the distance between pieces when there is a gap for a LinkSlab. Both bottom corners should be between 8" and 8'-1 1/2".
5. Place Con Seal CS-102 at the horizontal joints.
6. Place top modules (C1, B, B, D, D, A, A).
  - Check the distance between pieces when there is a gap for a LinkSlab. Both top corners should be 8" and 8'-1 1/2".
7. Place Con Seal CS-102 for the horizontal LinkSlab joints at D, A, A and B.
8. Place the LinkSlab. Ensure that it fits tightly between all adjacent modules. The drop key should fit inside the adjacent modules. Do not allow the LinkSlab to rest on the drop key.
  - Ensure surface contact with the bottom of the LinkSlab and the top of the adjacent modules. Reset adjacent modules as necessary to correct the problem.
9. Continue placing adjacent modules and LinkSlab.
  - Oldcastle Infrastructure recommends placing each LinkSlab as soon as the supporting modules are in place to ensure proper fit.
10. Continue installation procedure as recommended in the StormCapture Installation Manual.

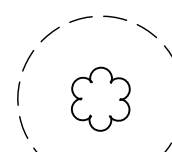
**FIGURE 13**

LinkSlab Isometric View





# TREE INVENTORY LEGEND



EXISTING TREE  
W/CRITICAL ROOT ZONE  
(TO REMAIN)



EXISTING TREE  
(TO BE REMOVED)

TREE PROTECTION FENCE SEE I-201 FOR ADDITIONAL INFORMATION

PLAN PREPARED BY: JANICE M. CENA, PLA  
ISA CERTIFIED ARBORIST No. MA-4469A

*Janice M. Cena*

ELECTRIC AVENUE SE  
(VARIABLE WIDTH PUBLIC R/W  
POSTED SPEED: 25 MPH)

SIGN

8' ASPHALT TRAIL

EX. PUBLIC ACCESS ESMT  
DB.24392 PG.503

2.5" CLUSTER  
T7710

TOP:435.32

TOP:435.87

EX. PUBLIC ACCESS ESMT  
DB.24392 PG.503

EXCAVATION FOR THE ELECTRICAL CONDUIT  
WITHIN THE CRITICAL ROOT ZONE SHALL BE  
PERFORMED BY HAND UNDER THE  
SUPERVISION OF A CERTIFIED ARBORIST TO  
ENSURE PROTECTION OF THE EXISTING TREE

ASD SKY

3030 Clarendon Blvd.  
Suite 350  
Arlington, VA 22201  
T 703.876.9600  
www.asdsky.com

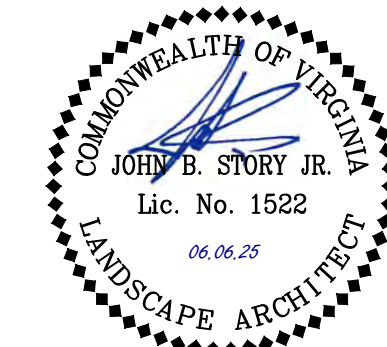
NAVY FEDERAL  
CREDIT UNION  
HQ2 ATM ADDITION

1007 ELECTRIC AVE  
VIENNA, VA 22180

**Dewberry**

Dewberry Engineers Inc.  
8401 Arlington Boulevard  
Fairfax, VA 22031  
703 698 9440 Phone  
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Associated Space Design, Inc. 2024

NO.	DATE	REVISIONS	REMARKS
1	06/20/25	SITE PLAN REVIEW	
2	06/20/25	ASD 01	
3	06/20/25	ISSUED FOR PRICING AND PERMIT	
4	06/20/25		
5	06/20/25		
6	06/20/25		
7	06/20/25		
8	06/20/25		
9	06/20/25		
10	06/20/25		
11	06/20/25		
12	06/20/25		
13	06/20/25		
14	06/20/25		
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17	06/20/25		
18	06/20/25		
19	06/20/25		
20	06/20/25		

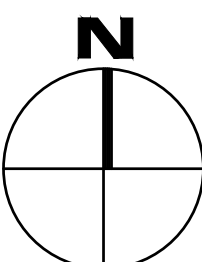
DRAWING TITLE:  
EXISTING TREE INVENTORY

PROJECT NO.:  
50184423  
ISSUE DATE:  
25.06.06  
DRAWN BY:  
CHECKED BY:

SHEET NUMBER:  
L-100







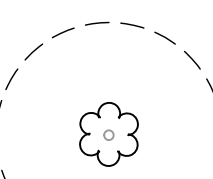


Tree ID	Size (DBH)	Common Name	Scientific Name	Critical Root Zone (CRZ)	Condition	Preserve / Remove	Comments
T001	4"	Redbud	<i>Cercis canadensis</i>	8'	Fair	Preserve	Multi-stem (1.5', 2', 3')
T002	10.5"	Willow Oak	<i>Quercus phellos</i>	15.75'	Fair/Good	Preserve	Missing tag in field
T7701	6.5"	Blackgum	<i>Nyssa sylvatica</i>	9.75'	Good	Preserve	Missing tag in field
T7702	6"	Nellie Stevens Holly	<i>Ilex x 'Nellie Stevens'</i>	12'	Good	Preserve	Multi-stem (3", 3", 2.5", 3")
T7703	6"	Nellie Stevens Holly	<i>Ilex x 'Nellie Stevens'</i>	12'	Good	Preserve	Multi-stem (3", 4", 2", 2")
T7704	10"	Willow Oak	<i>Quercus phellos</i>	15'	Fair/Good	Remove	
T7705	5.5"	American Linden	<i>Tilia americana</i>	8.25'	Good	Preserve	
T7706	5"	Nellie Stevens Holly	<i>Ilex x 'Nellie Stevens'</i>	10'	Good	Remove	Multi-stem (2", 2", 3", 3")
T7707	8.5"	Willow Oak	<i>Quercus phellos</i>	12.75'	Fair/Good	Remove	
T7709	7"	Willow Oak	<i>Quercus phellos</i>	10.5'	Fair/Good	Remove	
T7710	2.5"	Serviceberry	<i>Amelanchier arborea</i>	5'	Fair	Remove	Multi-stem (1", 1", 1.5", 1.5") Small deadwood dieback
T7712	4.25"	Crape myrtle	<i>Lagerstroemia indica</i>	8.5'	Good	Preserve	Multi-stem (2", 2", 2", 2.5")
T7715	9"	Willow Oak	<i>Quercus phellos</i>	13.5'	Fair/Good	Preserve	
T7716	9"	Willow Oak	<i>Quercus phellos</i>	13.5'	Fair	Preserve	Small deadwood dieback
T7717	5"	Blackgum	<i>Nyssa sylvatica</i>	7.5'	Good	Preserve	
T7727	7.5"	American Linden	<i>Tilia americana</i>	11.25'	Good	Preserve	
T7728	7"	Japanese Cryptomeria	<i>Cryptomeria japonica</i>	10.5'	Fair/Good	Preserve	
T7729	6"	Japanese Cryptomeria	<i>Cryptomeria japonica</i>	9'	Fair/Good	Remove	
T7730	6.5"	Japanese Cryptomeria	<i>Cryptomeria japonica</i>	9.75'	Fair/Good	Preserve	
T7731	6"	Willow Oak	<i>Quercus phellos</i>	9'	Good	Preserve	

10 0 10  
SCALE IN FEET



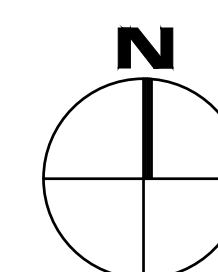
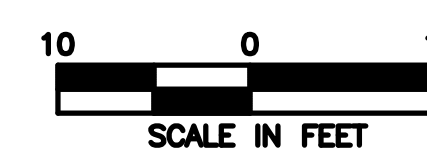


# PLANTING LEGEND

	LAWN		CANOPY TREE
	GROUNDCOVER / PERENNIALS		UNDERSTORY TREE
	DECORATIVE RIVER STONE		SHRUB
	EXISTING TREE (TO REMAIN)		GRASS
	TREE PROTECTION FENCE		

SEE L-201 FOR ADDITIONAL INFORMATION

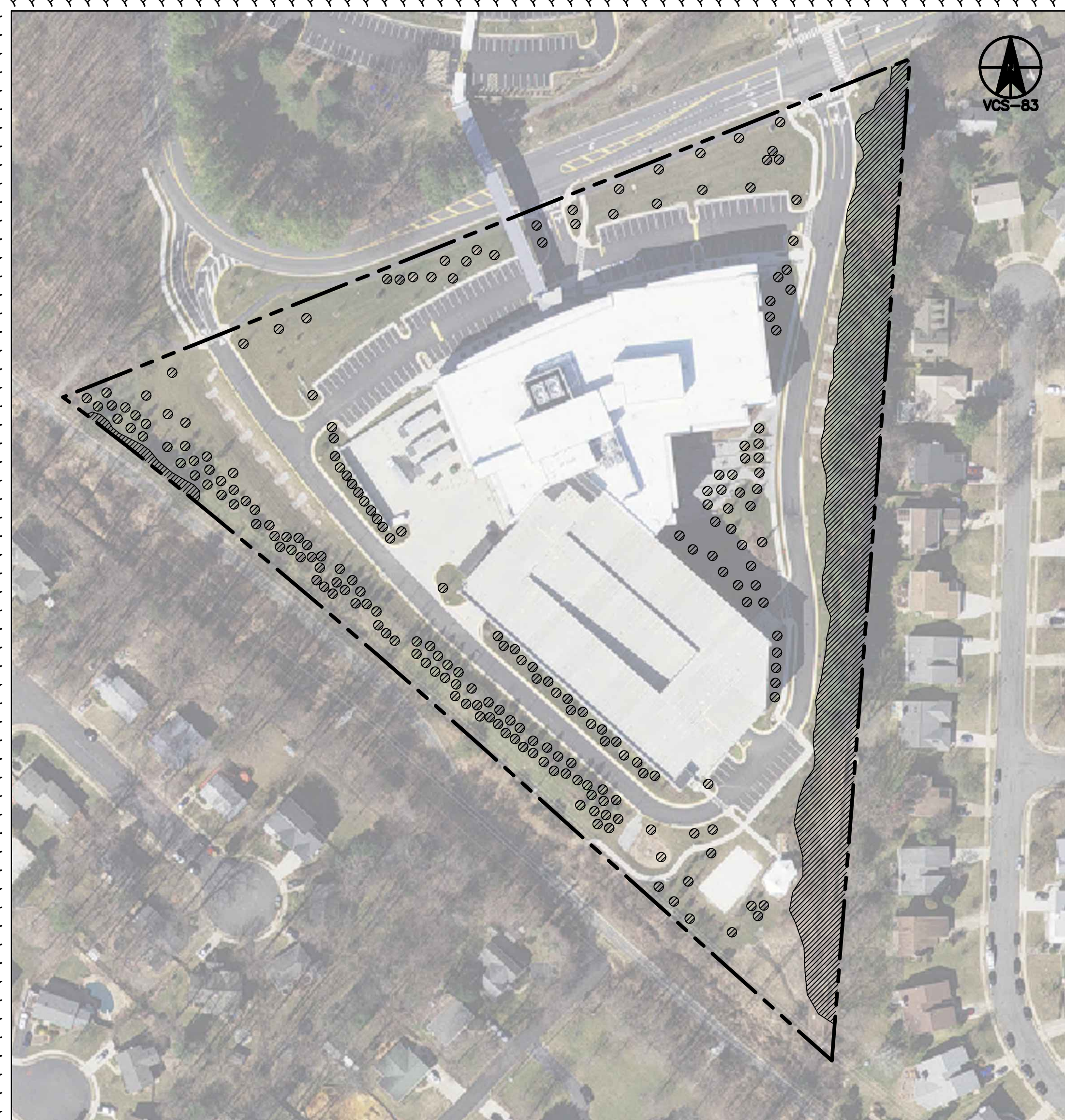
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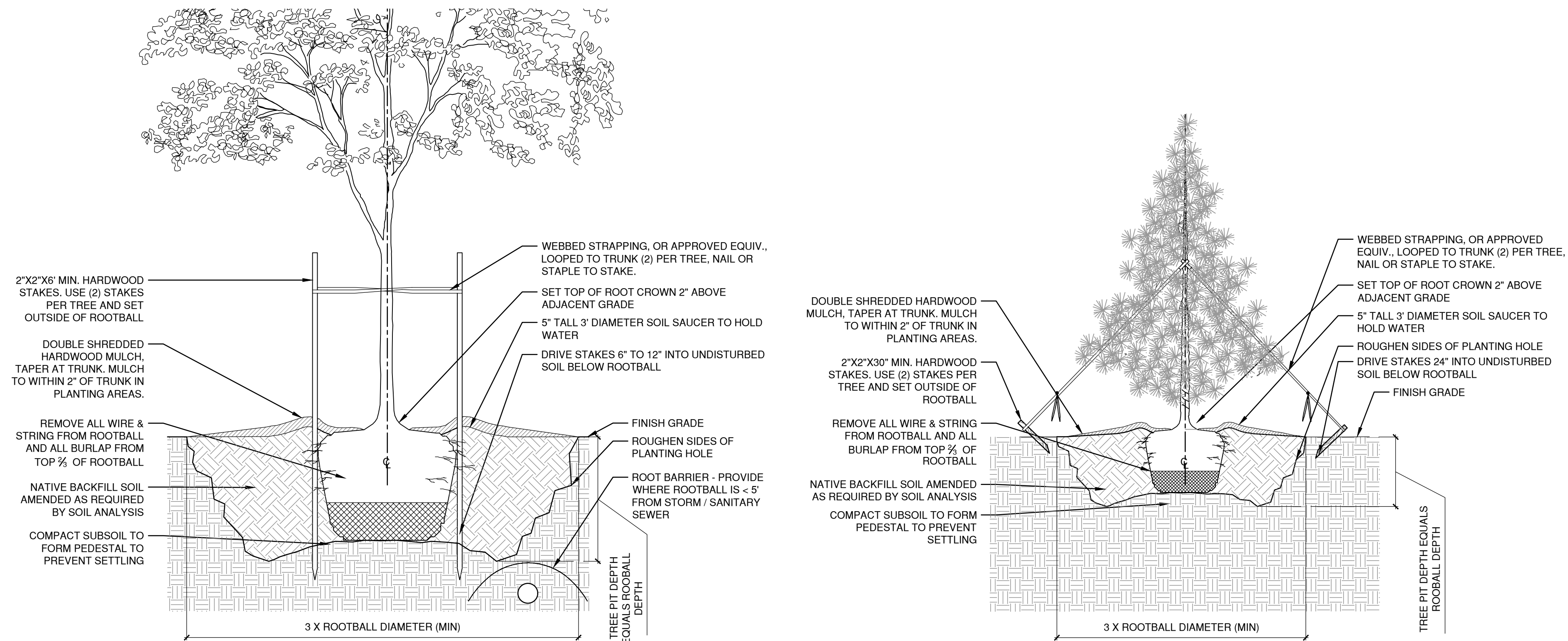
QTY	KEY	LATIN NAME	COMMON NAME	SIZE	ROOT CONDITION	TREE (SF)	PROVIDED (SF)
<b>Trees</b>							
3	AML	Amelanchier arborea	Downy Serviceberry	2 - 2 1/2" cal.	B&B - 3 STEM	150	450
3	CRJ	Coryloneria japonica	Japanese Cryptomeria	8" ht.	B&B	100	450
1	INX	Ilex x 'Nellie Stevens'	Nellie Stevens Holly	8' ht.	B&B	200	200
1	NSX	Nyssa sylvatica	Blackgum	2 - 2 1/2" cal.	B&B	250	250
4	QPH	Quercus phellos 'Hightower'	Hightower Willow Oak	2 - 2 1/2" cal.	B&B	300	1,200
12							2,550
<b>Shrubs</b>							
8	FMA	Fothergilla major 'Mt Airy'	Mt Airy Fothergilla	3 gal.			
41	CS	Ilex glabra 'Shamrock'	Shamrock Inkberry	3 gal.			
7	PLO	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Cherry Laurel	3 gal.			
<b>Perennials and Grasses</b>							
53	NXF	Nepeta x faassenii 'Walker's Low'	Walker's Low Catmint	1 gal.	18" o.c.		
19	PVS	Panicum virgatum	Switchgrass	1 gal.	18" o.c.		
106	RFG	Rudbeckia fulgida 'Goldstrum'	Goldstrum Black-Eyed Susan	1 qt.	12" o.c.		
32	SHK	Sporobolus heterolepis	Prairie Droopseed	1 qt.	24" o.c.		
<b>Turf 4,110 sf</b>							
		Tall fescue blend					
<b>Decorative Stone 11 sf</b>							
		Earth Tones (grey, brown, blue and red)	Rounded River Stone	5"-8"			

Canopy Coverage Analysis			
Instructions: Cells shaded green are for user inputs. For issues contact TOV Urban Forester.			
Row	Project Address and/or Munis #:		
A1	Gross site area sq. ft.		469,048
A2	Pre-development canopy coverage sq. ft.		87,678
A3	Percentage of gross site area covered by existing tree canopy (A2/A1)		18.7%
A4	Zone		CP
A5	Percentage of 20-year Tree Canopy required for site (see zoning chart)		10%
A6	Minimum 20-year Tree Canopy required for site sq. ft. (A1xA5)		46,905
A7	Tree Preservation Target (minimum tree canopy area required via tree preservation) sq. ft. (A3xA6)		8,768
A8	Tree canopy that will be provided through tree preservation sq. ft.		85,278
A10	Has the Tree Preservation Target minimum been met? (A8>= or =A7)		Yes
A11	If No, then submit a request to deviate from the Tree Preservation Target. Including a site-specific explanation of why the Tree Preservation Target cannot be met. Provide sheet number where deviation request is located.		Narrative
B1	Canopy from retained trees that qualify for credit sq. ft. (A8)		85,278
B2	Multipliers - If the tree qualifies, may use both tree preservation multipliers. Canopy credits will only be given to trees with trunks that are fully located on the development site.		
B3	Tree Preservation multiplier 1.25 (B1x0.25)		21,320
B4	Forest Communities multiplier 1.5 (B1x0.5) (see 17-1003(d))		0
B4	Total preserved canopy including multipliers sq. ft. (B1+B2+B3)		106,598
C1	Canopy area that must be met with tree planting (A6-B4)		-59,693
C2	Tree Canopy area to be met through tree planting with multipliers (See Sheet Planting Plan N1)		2,550
D1	Total canopy area provided through tree preservation sq. ft. (B4)		106,598
D2	Total canopy area provided through tree planting sq. ft. (C2)		2,550
D3	Total 20-year canopy coverage provided (D1+D2)		109,148
D4	Total minimum 20-year canopy coverage required (A6)		46,905
D5	Are canopy coverage requirements met?		Yes
D6	If No, then submit a request to contribute to the Tree Fund to cover the unmet portion of the required minimum tree canopy coverage.		Narrative



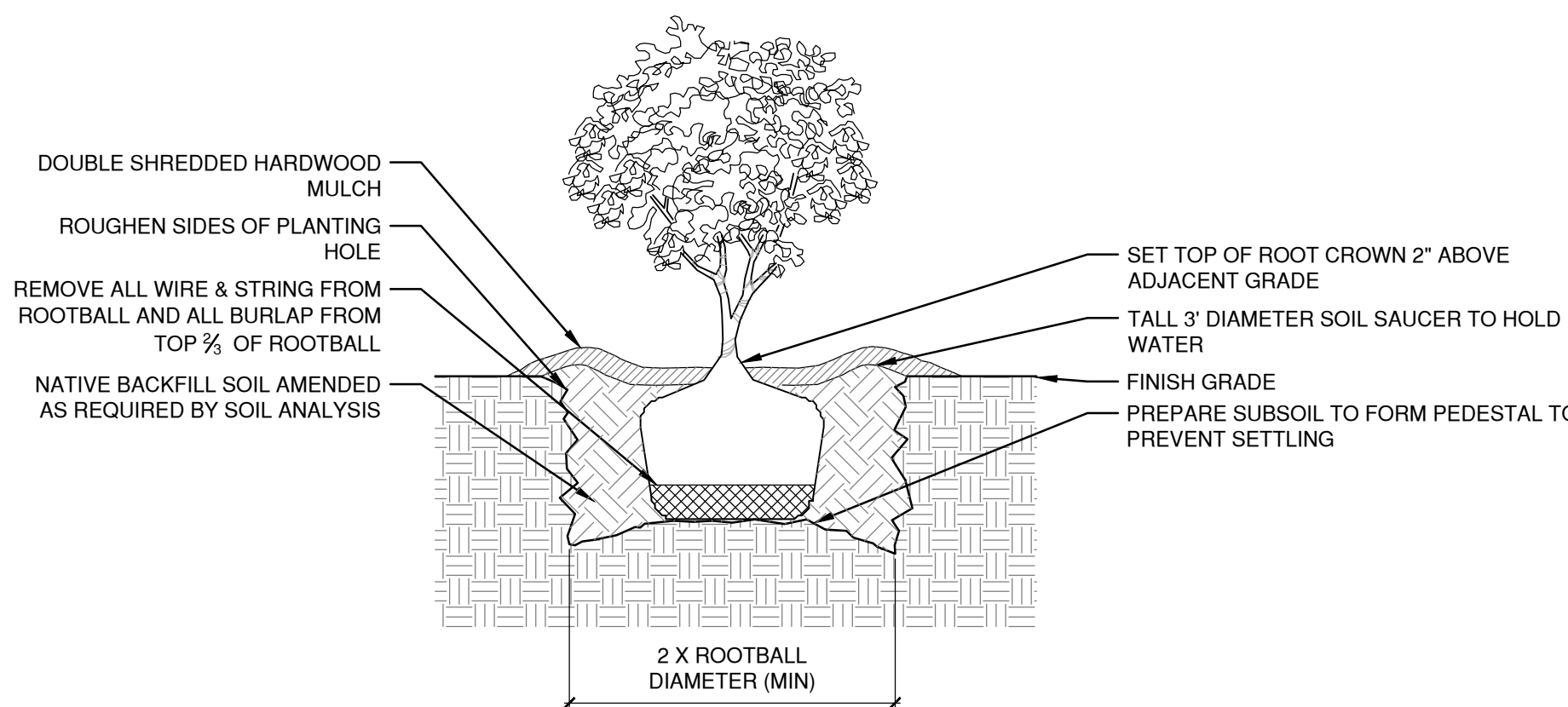
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EXISTING TREE CANOPY  PROPERTY LINE 



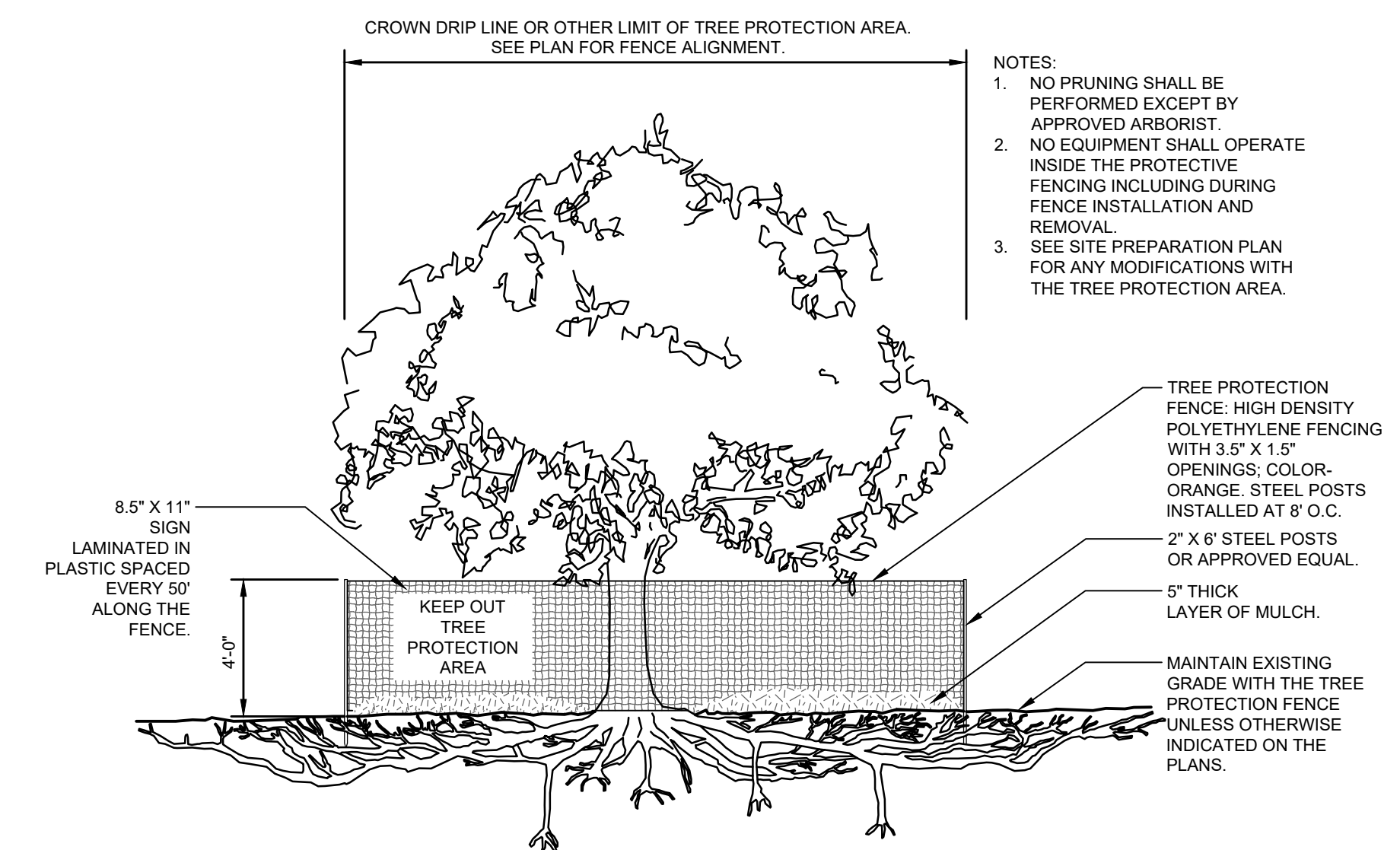
## 1 TREE PLANTING

Scale: NTS



### 3 B&B SHRUB PLANTING

Scale: NTS

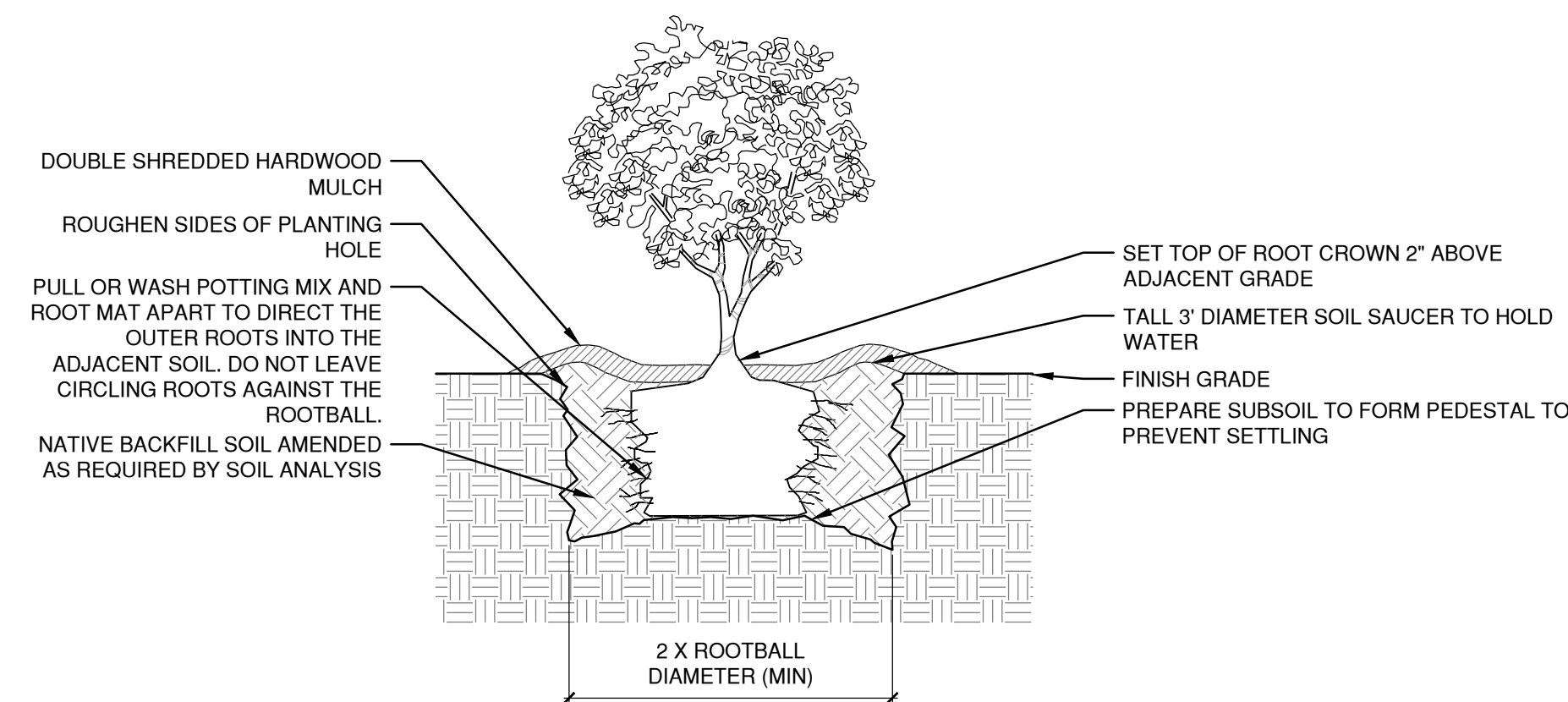


## 5 TREE PROTECTION

Scale: NTS

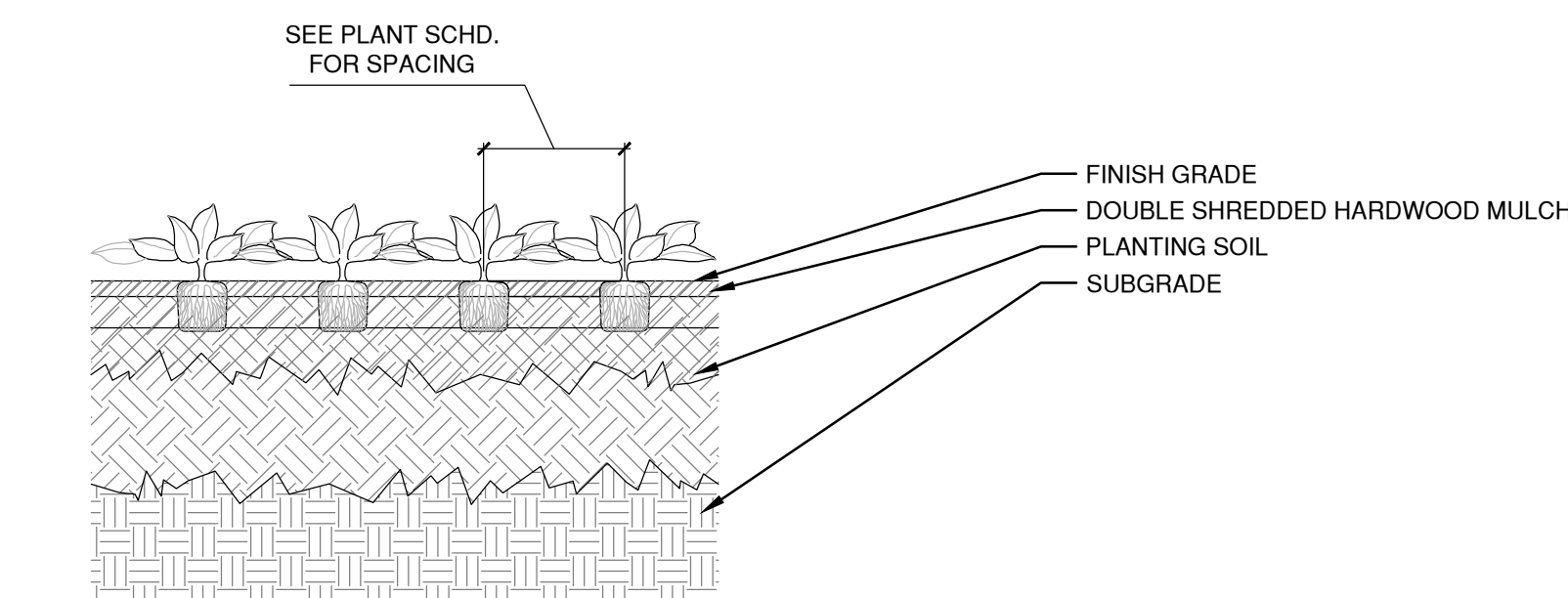
## EVERGREEN TREE PLANTING

Scale: NTS



## CONTAINER SHRUB PLANTING

Scale: NTS



## PERENNIAL PLANTING

Scale: NTS



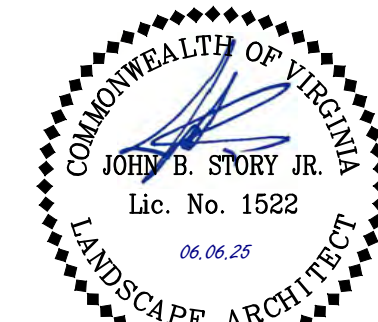
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Arlington, VA 22201  
T 703.876.9600  
[www.asdsky.com](http://www.asdsky.com)

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[illegible]

DRAWING TITLE:

## LANDSCAPE SCHEDULE &amp; DETAILS

PROJECT NO.: 50184423	ISSUE DATE: 25.06.06
DRAWN BY:	CHECKED BY:

SHEET NUMBER:



1. THE CONTRACTOR SHALL FULLY ACQUAINT HIMSELF/HERSELF WITH THE CONDITIONS OF THE CONTRACT, LOCAL CONDITIONS RELATING TO THE LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE/SHE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES AND RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
2. CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL GOVERNING ORDINANCES, CODES AND REGULATIONS.
3. CONTRACTOR SHALL VERIFY DIMENSIONS, GRADES, LEVELS, BOUNDARIES AND CONSTRUCTION INDICATED ON CONTRACT DRAWINGS BEFORE PROCEEDING WITH THE WORK AND SHALL IMMEDIATELY BRING ANY DISCREPANCIES TO THE OWNER AND ARCHITECT.
4. ALL MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS.
5. DIMENSIONS, NOTES, FINISHES AND FIXTURES SHOWN ON TYPICAL PLANS, SECTIONS OR DETAILS SHALL APPLY TO SIMILAR, SYMMETRICAL OR OPPOSITE PLANS, SECTIONS OR DETAILS.
6. DO NOT SCALE DRAWINGS. NUMERICAL DIMENSIONS SUPERSEDE SCALED DIMENSIONS. CONSULT THE ARCHITECT FOR DIMENSIONS NOT INDICATED OR IN ERROR.
7. CONTRACTOR SHALL NOT MAKE OR CAUSE TO BE MADE OR PERMIT A SUBCONTRACTOR TO MAKE ANY CHANGE TO WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS WITHOUT SPECIFIC AUTHORIZATION OF THE ARCHITECT.
8. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE FOR ADJACENT PROPERTIES DURING CONSTRUCTION, COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY AND COMPLIANCE WITH THE REQUIREMENTS SPECIFIED IN THE OWNER AGREEMENT IS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
9. FOR THE MEAN AND END OF CONSTRUCTION OF THIS PROJECT, CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND SAFETY PROCEDURES AND FOR COORDINATING ALL PORTIONS OF WORK.
10. ALL WORK SHALL BE COMPLETED TO AT LEAST THE STANDARDS ESTABLISHED FOR THE INDUSTRY OR TRADE FOR A PARTICULAR ITEM. ANY QUESTIONS RELATED TO QUALITY SHALL BE ADDRESSED TO THE ARCHITECT PRIOR TO THE SUBMISSION OF BIDS OR THE ORDERING, FABRICATION, INSTALLATION OR STORAGE OF THESE ITEMS.

1. LANDSCAPE WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, THE SUPPLYING OF ALL PLANT MATERIALS SPECIFIED, THE FURNISHING OF ALL LABOR, EQUIPMENT, WATER, ELECTRICITY, EQUIPMENT AND ALL MATERIALS CALLED. THE WORK SHALL INCLUDE MAINTAINING OF ALL PLANTS AND PLANTING AREAS UNTIL FINAL ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL ASSIGN A QUALIFIED PROJECT MANAGER AND FIELD SUPERVISOR TO WORK DIRECTLY WITH THE ARCHITECT AND SUPERVISE THE WORK AT ALL TIMES THROUGH FINAL OWNER ACCEPTANCE.
2. ALL LANDSCAPE WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
3. PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. VERIFICATION OF EXISTING CONDITIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. THIS INCLUDES BUT IS NOT LIMITED TO: SOIL CONDITIONS, UTILITIES (UNDERGROUND AND ABOVE GROUND) EXISTING STRUCTURES, ETC.
5. THE CONTRACTOR SHOULD BE COMPLETELY FAMILIAR WITH LANDSCAPE PLANS PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES, POTENTIAL PROBLEMS, ETC. SHOULD BE MADE KNOWN TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
6. ALL REASONABLE SAFEGUARDS ARE TO BE TAKEN IN ORDER TO PROTECT EXISTING STRUCTURES, PAVEMENT, FURNISHINGS, LAWN AND LANDSCAPING. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT OCCURS AS A RESULT OF CONTRACTOR NEGLIGENCE.
7. EXISTING AND PROPOSED DRAINAGE PATTERNS ARE NOT TO BE DISTURBED BY THE CONTRACTOR IN A WAY THAT IS INCONSISTENT WITH THE LANDSCAPE PLANS.
8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK TO BE PERFORMED WITH THE WORK OF OTHER SUBCONTRACTORS ON THE SITE, INCLUDING SCHEDULING AND PHYSICAL INTERFERENCE.
9. THE CONTRACTOR MUST CONFIRM THE AVAILABILITY OF ALL SPECIFIED PLANT MATERIAL PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL ARRANGE FOR APPROVAL OF PLANT MATERIALS BY THE ARCHITECT VIA FIELD VISITS/TAGGING AND OR SUBMISSION OF PHOTOS OF ALL TREES AT THE DISCRETION OF THE ARCHITECT.
10. ALL PLANT MATERIAL SHALL MEET OR EXCEED THE AMERICAN STANDARDS FOR NURSERY STOCK AS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND APPROVED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE INC.
11. ALL PLANT MATERIAL SIZES SPECIFIED ARE MINIMUM SIZES. ALL CONTAINER AND TREE CALIPER SIZES ARE MINIMUM. CONTAINER OR CALIPER SIZE MAY BE INCREASED IF NECESSARY TO PROVIDE OVERALL PLANT SIZE SPECIFIED.
12. ALL PLANT MATERIAL SHALL BE SUBJECT TO APPROVAL AT THE JOB SITE BY THE ARCHITECT PRIOR TO INSTALLATION. WHEN DELIVERED PLANT MATERIAL DOES NOT COMPLY WITH THE REQUIREMENTS, THE ARCHITECT RESERVES THE RIGHT TO REJECT SUCH PLANTS AND REQUIRE THE CONTRACTOR TO REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL REINSPECTED AND FOUND TO BE ACCEPTABLE. THE CONTRACTOR SHALL REMOVE REJECTED PLANTS AND MATERIALS FROM THE PLANTING SITE WITHIN 72 HOURS AND REPLACE WITH ACCEPTABLE MATERIALS.
13. THE TOWN OF VIENNA URBAN FORESTER SHALL INSPECT AND APPROVE ALL PLANTS REQUIRED ON THE APPROVED SITE PLAN BEFORE INSTALLATION. ADDITIONALLY, THE INSTALLATION LOCATION AND THE CLIMATIC CONDITIONS SHALL BE EVALUATED AND APPROVED BEFORE INSTALLATION.
14. NO PLANT SUBSTITUTIONS WILL BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT. ANY SUBSTITUTIONS MUST BE SUBMITTED IN WRITING ACCOMPANIED BY PICTURES OR SAMPLES FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.
15. ALL SHRUB BEDS SHALL BE TILLED TO MINIMUM DEPTH OF 12".
16. ALL LAWN AREAS SHALL BE TILLED TO A MINIMUM DEPTH OF 6".
17. PLANTING BEDS TO BE SEPARATED FROM LAWN AREAS WITH METAL EDGING (1/8" X 5-1/2" MIN.) AS SPECIFIED OR 4" DEEP EXCAVATED TRENCH. THE TRENCH SHALL HAVE A VERTICAL FACE AGAINST THE LAWN AREA, AND A GENTLY TAPERED EDGE LEADING INTO THE SHRUB BED.
18. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SOIL IN ALL PLANTED AREAS IS OF AN APPROPRIATE TYPE AND CONSISTENCY FOR PLANTING AND AT THE CORRECT PH. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING SOIL SUITABILITY, AND ANY NECESSARY AMENDMENTS SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING VEGETATION AS REQUIRED AND PREPARING PLANTING AREAS PRIOR TO INSTALLATION OF PLANT MATERIALS.
20. THE LANDSCAPE CONTRACTOR SHALL TEST THE SITE SOILS TO VERIFY THAT THEY ARE ACCEPTABLE FOR PROPER GROWTH OF PLANT MATERIALS AND ADEQUATE DRAINAGE IN PLANT BEDS AND PLANTERS. THE LANDSCAPE CONTRACTOR SHALL COORDINATE THE LOCATION, AND PROCUREMENT OF EXISTING ON-SITE SOIL SAMPLES WITH THE ARCHITECT. REPRESENTATIVE SAMPLES SHALL BE SUBMITTED TO A CERTIFIED TESTING LABORATORY FOR ANALYSIS. THE FINDINGS, TOGETHER WITH RECOMMENDATIONS FOR AMENDING THE SOILS SHALL BE REVIEWED AND APPROVED BY THE OWNER AND ARCHITECT PRIOR TO DELIVERY AND INSTALLATION OF PLANT MATERIALS AT THE JOB SITE.
21. THE LANDSCAPE CONTRACTOR SHALL ENSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS AND PLANTERS. VERTICAL DRILLING THROUGH HARDPAN AND COMPACTED FILL SHALL BE ACCOMPLISHED TO ENSURE DRAINAGE.
22. ALL PLANTING BEDS SHALL BE STAKED AND OR PAINTED BY THE CONTRACTOR FOR APPROVAL BY THE ARCHITECT PRIOR TO PLANT INSTALLATION. TREES SHALL BE LOCATED WITH STAKES OR FLAGS FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.
23. ALL PROPOSED TREES SHALL BE INSTALLED EITHER ENTIRELY IN OR ENTIRELY OUT OF PLANTING BEDS. PLANTING BED OUTLINES SHALL NOT BE OBSTRUCTED AND SHALL BE SMOOTH AND FLOWING. IF TREES ARE LOCATED OUTSIDE PLANTING BEDS IN SOD AREAS, MAINTAIN A MINIMUM 3' WIDE OFFSET.
24. PLANT QUANTITIES SHOWN ON THE LANDSCAPE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE LANDSCAPE CONTRACTOR. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND REPORTING ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION PRIOR TO CONTRACT AWARD AND COMMENCEMENT OF WORK.
25. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE AMOUNT OF SOD OR SEED REQUIRED TO INSTALL LAWN AREAS ACCORDING TO THE LANDSCAPE PLANS. ANY ADDITIONAL SOD OR SEEDED AREAS ADDED TO THE PLANS DURING THE INSTALLATION PROCESS SHALL BE PROVIDED BY THE CONTRACTOR AT A MUTUALLY AGREED UPON SQ. FT. UNIT COST. AREAS TO BE SODDED OR SEEDDED SHALL BE AMENDED PER SOILS REPORT TO PROVIDE REQUIRED NUTRIENTS AND SOIL PH OF BETWEEN 6.0 AND 7.0.
26. ALL LAWN AREAS WITHIN THE PROJECT'S BOUNDARY SHALL BE SODDED OR SEEDDED WITH A SUN/SHADE SOD OR SEED MIX AS FOLLOWS:
  - a. SHADOW/SHADE
    - SIMMONS CREEPING RED FESCUE 24.73%
    - VIKING H2O HARD FESCUE 24.19%
    - AMBROSE CHEWINGS FESCUE 23.23%
    - PALMER III PERENNIAL RYEGRASS 22.96%
  - b. SUN
    - TITANIUM G I TALL FESCUE 34.59%
    - VALKYRIE I TALL FESCUE 34.48%
    - DYNAMITE G I S 29.40%
27. TOPSOIL FOR ALL LAWN AREAS SHALL BE RAKED SMOOTHER TO FINISH GRADE, STABILIZED AND FREE OF RUTS, MOUNDS, RIDGES AND STONES / DEBRIS GREATER THAN 1 INCH.
28. SATISFACTORY TURF:
  - a. SODDED: AT END OF MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VIABLE TURF HAS BEEN ESTABLISHED. FREE OF WEEDS, OPEN JOINTS, BARE AREAS, AND SURFACE IRREGULARITIES.
  - b. SEEDDED: AT END OF MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF TURF HAS BEEN ESTABLISHED. FREE OF WEEDS, SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90% OVER ANY 10 SQUARE FOOT AREA AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES.
29. PLANTS SHALL BE INSTALLED WHEN WEATHER AND SOIL CONDITIONS ARE CONDUCTIVE TO PLANTING. GENERALLY, PLANTS SHALL NOT BE INSTALLED WHEN THE SOIL IS FROZEN, OR SATURATED WITH WATER, OR DURING TIMES OF SUMMER DROUGHT.
  - a. SPRING PLANTING SEASON: MARCH 1 - JUNE 15
  - b. FALL PLANTING SEASON: SEPTEMBER 115 - DECEMBER 31

- tree INSTALLATION SHALL COMPLY WITH THE LATEST VERSION OF ANSI A300 PART 6 TREE PLANTING BEST MANAGEMENT PRACTICES AND THE VIRGINIA COOPERATIVE EXTENSIONS TREE AND SHRUB PLANTING GUIDELINES PUBLICATION 430-295.
31. STAKING OF TREES SHALL BE REQUIRED IF DEEMED APPROPRIATE BY THE TOWN OF VIENNA URBAN FORESTER. WHEN REQUIRED, STAKING WILL BE INSTALLED TO MEET ANSI A300 STANDARDS.
32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY AND PLUMB CONDITION OF ALL INSTALLED PLANT MATERIALS AND REPLACING ANY DAMAGED PLANT MATERIAL. WITH PLANTS OF EQUAL KIND, SIZE AND CONDITION AT NO ADDITIONAL COST TO THE OWNER. NO CHAINS OR CABLES ATTACHED TO THE TRUNK SHALL BE USED WHEN INSTALLING PLANT MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT PLANTS AND TREES FROM FALLING OR BEING BLOWN OVER, AND TO REPLACE ALL PLANTS WHICH ARE DAMAGED DUE TO INADEQUATE GUYING OR STAKING, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL REMOVE ALL STAKING MATERIALS THE END OF THE WARRANTY PERIOD AND DISPOSE OFF-SITE.
33. ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" LAYER OF MULCH AS SPECIFIED. ALL TREES SHALL RECEIVE A 3-INCH THICK LAYER OF MULCH IN A 6-FOOT DIAMETER RING SURROUNDING THE TREE, WITH A 6-INCH GAP FROM THE TRUNK. THE LANDSCAPE SCOP OF WORK INCLUDES MULCHING AS AN INTEGRAL PART OF THE PROJECT AND NOT AS A SEPARATE COST ITEM.
34. ALL PLANT MATERIALS SHALL RECEIVE ADEQUATE WATERING BY THE CONTRACTOR AS REQUIRED UNTIL FINAL ACCEPTANCE BY OWNER.
35. ALL EXISTING PLANT BEDS TO REMAIN WITHIN THE CONSTRUCTION LIMIT LINE SHALL BE LEFT UNDISTURBED. EXISTING TREES TO REMAIN, AS NOTED ON THE DRAWINGS SHALL BE LEFT UNDISTURBED AND PROTECTED BY BARRICADES ERRECTED AT THE PERIMETER OF THE TREE DRUPLINE(S) OR AS SPECIFIED ON THE TREE PRESERVATION DRAWINGS. NO VEHICLE SHALL TRAVERSE THIS AREA NOR SHALL ANY STORAGE OF MATERIALS OR EQUIPMENT BE PERMITTED WITHIN THE AREA OF THE TREE DRUPLINE(S). ANY EXISTING PLANT BEDS OR TREES DAMAGED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED BY THE RESPONSIBLE PARTY AT THEIR OWN EXPENSE.
36. NO TREES SHALL BE PLANTED WITHIN DESIGNATED UTILITY CORRIDORS, PUBLIC RIGHTS OF WAY (WITHOUT RIGHTS OF WAY UTILIZATION PERMIT) NOR AT PLANTS LOCATED WITHIN FOUR FEET (4') OF ANY SWALE CENTERLINE IDENTIFIED ON THE DRAWINGS. FIELD ADJUST AS NECESSARY AND REVIEW ADJUSTMENTS WITH THE ARCHITECT PRIOR TO INSTALLATION.
37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EFFECTIVE TRAFFIC CONTROL AND REMOVAL OF ALL DEBRIS AND EXCAVATED BACKFILL OFF-SITE ON A DAILY BASIS AT NO ADDITIONAL COST TO THE OWNER.
38. QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWING SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE ARCHITECT ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. THE ARCHITECT'S ESTIMATES ARE ONLY AN AID FOR CLARIFICATION OF UNITS AND A CHECK FOR THE CONTRACTOR TO COMPARE WITH HIS OWN ESTIMATES. DIFFERENCES SHALL BE BINDING ON THE CONTRACTOR. THE ARCHITECT'S NOTED QUANTIFICATIONS SHALL BE ALLOWED FOR EXTRA QUANTITIES NECESSARY TO COMPLETE THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF PLANT MATERIAL ACCORDING TO DRAWINGS.
39. ALL PLANTS SHALL BE WARRANTED TO REMAIN ALIVE AND HEALTHY AND IN THRIVING CONDITION FOR ONE YEAR FROM THE DATE OF JOB ACCEPTANCE. PLANTS SHALL BE SPECIMEN QUALITY. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF.
40. HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO THE MAIN BODY OF THE PLANT AND NOT FROM BRANCHES TO TIP. IF A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE AND NOT GREATER THAN THE 50 PERCENT OF THAT RANGE. SEE B&B TREE SPEC. AND TREE DIMENSIONAL SIZE SPECIFIED.
41. SHADE TREES SHALL BE STRAIGHT UNLESS OTHERWISE SPECIFIED. SEE SPECIFICATIONS FOR FERTILIZER AND AMENDMENT ADDITIVES.
42. TREES SHALL BE PLANTED AT THE HEIGHT OF THE SURROUNDING GRADE WITH THE ROOTS FLARES VISIBLE. THE TRUNK FLARE DEPTH FOR ALL TREES SHOULD BE VISIBLE AT +/- 2" ABOVE GRADE.
43. ALL B&B TREES SHALL BE 100% ROOT PRUNED AT OR AFTER THE MIDPOINT OF THEIR LIFESPAN IN THE NURSERY. CONTRACTOR RESPONSIBLE FOR OBTAINING INFORMATION REGARDING NURSERY GROWING PRACTICES AND PROVISION OF THIS INFORMATION TO THE ARCHITECT.
44. ALL PLANTS SHALL BE PROTECTED BY BURLAP OR BURLAP PROTECTION. FOR BALLED AND BURLAPPED TREES, A MINIMUM OF THE TOP HALF OF THE WIRE BASKET AND BURLAP SHALL BE CUT AWAY AND REMOVED FROM THE PLANTING HOLE. ALL TWINE, ROPE, TRUNK PROTECTION, TAGS, RIBBON, ETC. SHALL BE REMOVED FROM THE TREES AND PLANTING HOLES.
45. ALL B&B TREES SHALL BE MOVED WITH STRAPPING CONNECTED TO WIRE BASKET ONLY, NEVER ATTACHED DIRECTLY TO TREE TRUNK. CONTAINER PLANTS SHALL BE MOVED IN A WAY THAT IS COMPLETELY SUPPORTED BY THE CONTAINER, NOT THE TREE TRUNK.
46. ALL TREES TO BE INSTALLED WITH MOST ATTRACTIVE SIDE FACING PREDOMINANT POINT OF VISIBILITY.
47. ALL PLANTS SHALL BE PROTECTED BY A STURDILY FASTENED BURLAP BAG THAT HAS BEEN TIGHTLY WRAPPED AND SECURELY TIED WITH TWINE OR WIRE, OR PINNED.
48. TREES SPECIFIED TO HAVE CLEAR TRUNK HEIGHT TO BE PURCHASED FROM THE NURSERY WITH SAID CLEAR TRUNK HEIGHT, NOT FIELD-PRUNED BY CONTRACTOR.

1. A PRE-CONSTRUCTION MEETING WITH THE TOWN OF VIENNA'S URBAN ARBORIST SHALL BE HELD ON SITE SO THAT THE ARBORIST CAN EXPLAIN PROTECTION MEASURES TO OPERATORS, CONSTRUCTION SUPERVISORS, AND/OR CONTRACTOR'S REPRESENTATIVES.
2. CONTRACTOR SHALL STAKE CLEARING LIMITS ON SITE IN ORDER TO FACILITATE LOCATION FOR TRENCHING AND FENCING INSTALLATION FOR TREE PROTECTION.
3. TREE PROTECTION MARKS SHALL BE INSTALLED AS SHOWN ON PLANS BEFORE ANY SITE WORK INCLUDING DEMOLITION, GRADING, AND TREE REMOVAL.
4. THE USE OF HEAVY EQUIPMENT IS STRICTLY PROHIBITED WITHIN TREE PRESERVATION AREAS, INCLUDING FOR THE PURPOSE OF REMOVING UNWANTED TREES, STRUCTURES, PADS, ETC. SHALL BE REMOVED BY HAND.
5. THE SEQUENCE FOR TREE PRESERVATION MEASURES, IF REQUIRED, SHALL BE IN THIS ORDER: ROOT PRUNING PRECEDING TREE PRUNING, FENCING, TREE PRUNING AND CHEMICAL TREATMENT, AERATION SYSTEMS INSTALLED. THESE MEASURES SHALL BE COMPLETED IN THE FIELD BY THE CONSTRUCTION SUPERVISOR.
6. TREE PROTECTION FENCING SHALL BE MAINTAINED BY THE CONTRACTOR THROUGH DURATION OF CONSTRUCTION. NO ALTERATION SHALL OCCUR WITHOUT PRIOR APPROVAL BY A TOWN REPRESENTATIVE.
7. CRITICAL ROOT ZONE SHALL BE DEFINED AS 1.5' RADIUS PER 1" OF DBH (DIAMETER AT BREAST HEIGHT), WHICH SHALL BE MEASURED AT A HEIGHT OF 4.5' FROM HIGHEST POINT OF GROUND AT BASE OF TRUNK.
8. PROTECTION PROVIDED BY FENCING SHALL BE A MINIMUM DEPTH OF 12" AT OR BEFORE THE LIMITS OF DISTURBANCE. TREES THAT ARE DETERMINED BY THE TOWN ARBORIST TO BE IN "POOR" CONDITION SHALL NOT COUNT TOWARD CANOPY COVERAGE CALCULATIONS.
9. ALL PRUNING SHALL BE DONE IN ACCORDANCE WITH CURRENT AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 300 PRUNING STANDARDS. SPIKES SHALL NOT BE USED TO CLIMB LIVE TREES UNLESS THE TREE IS BEING REMOVED.
10. TREE PROTECTION AREAS SHALL HAVE NON-NATIVE INVASIVE VINES REMOVED OR SEVERED AND TREATED TO PREVENT REGROWTH AS DEEMED NECESSARY BY THE TOWN OF VIENNA URBAN FORESTER.
11. REMOVAL OF ANY TREE PRESERVATION MEASURE SHALL BE APPROVED BY THE TOWN OF VIENNA URBAN FORESTER IN WRITING PRIOR TO ANY REMOVAL.

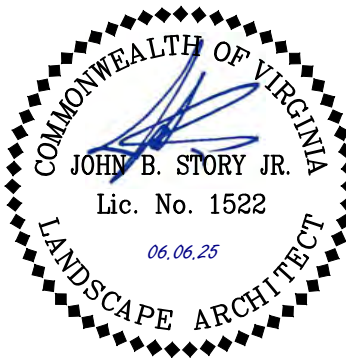
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Associated Space Design, Inc. 2024

2	6/6/2025	SITE PLAN REVIEW
1	TBD	ASI-01
0	1/24/2025	ISSUED FOR PRICING AND PERMITS
NO:	DATE:	REMARKS:
<b>REVISIONS:</b>		

DRAWING TITLE:

LANDSCAPE NOTES

PROJECT NO.:

ISSUE DATE:

DRAWN BY:

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