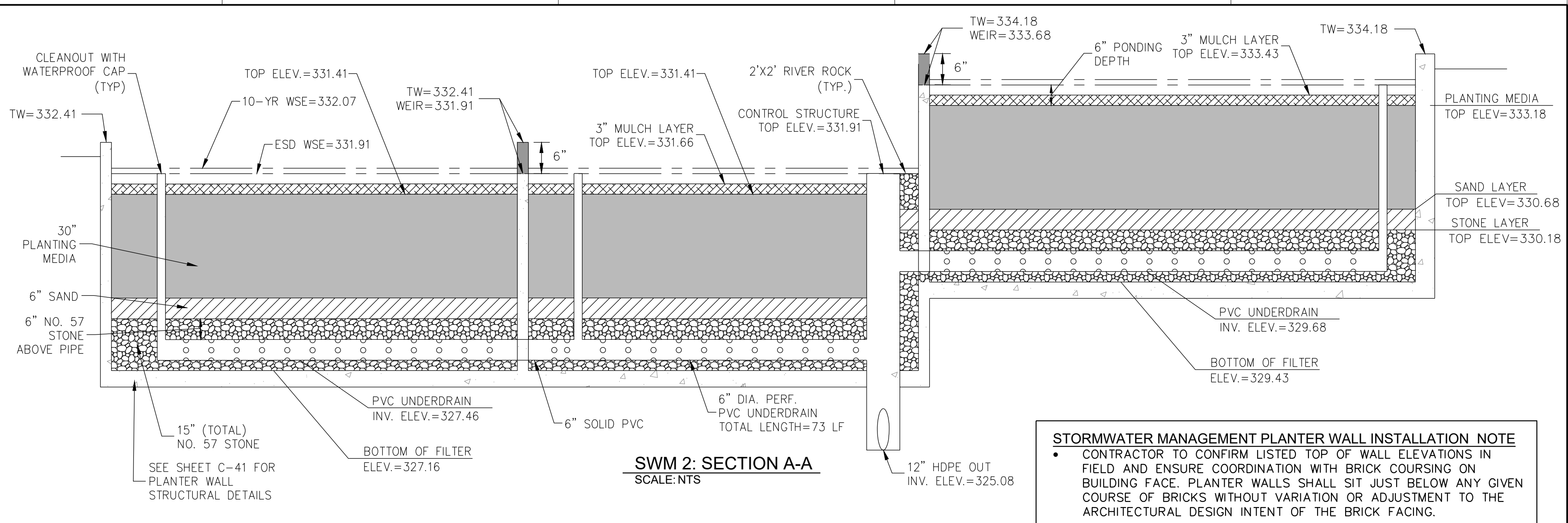


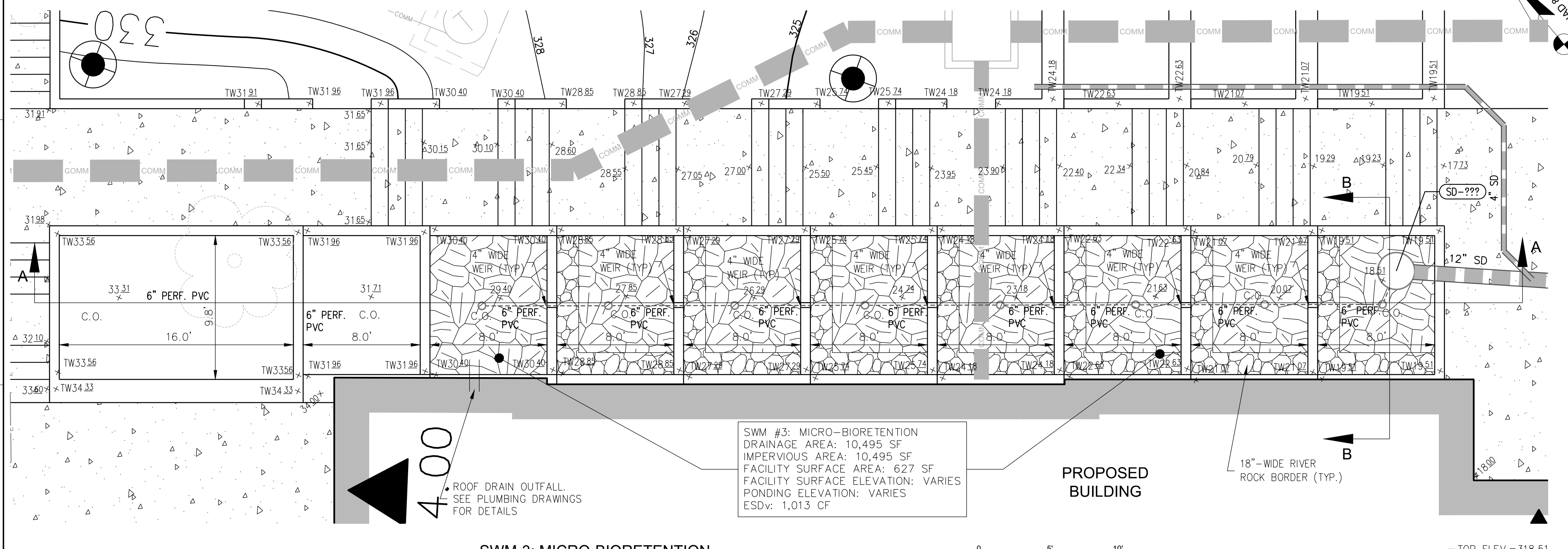
SWM-2: MICRO-BIORETENTION  
SCALE: 1"=5'

SWM #2: MICRO-BIORETENTION  
DRAINAGE AREA: 6,799 SF  
IMPERVIOUS AREA: 6,799 SF  
FACILITY SURFACE AREA: 4,022 SF  
FACILITY SURFACE ELEVATION: 331.41  
PONDING ELEVATION: 331.91  
ESDV: 420 CF



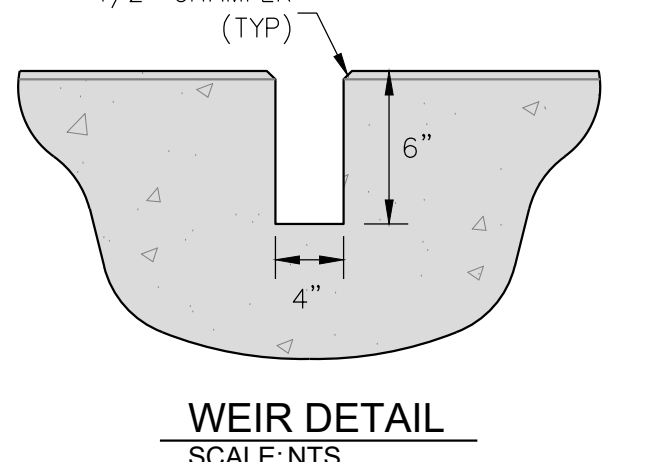
SWM 2: SECTION A-A  
SCALE: NTS

STORMWATER MANAGEMENT PLANTER WALL INSTALLATION NOTE  
CONTRACTOR TO CONFIRM LISTED TOP OF WALL ELEVATIONS IN FIELD AND ENSURE COORDINATION WITH BRICK COURSING ON BUILDING FACE. PLANTER WALLS SHALL SIT JUST BELOW ANY GIVEN COURSE OF BRICKS WITHOUT VARIATION OR ADJUSTMENT TO THE ARCHITECTURAL DESIGN INTENT OF THE BRICK FACING.

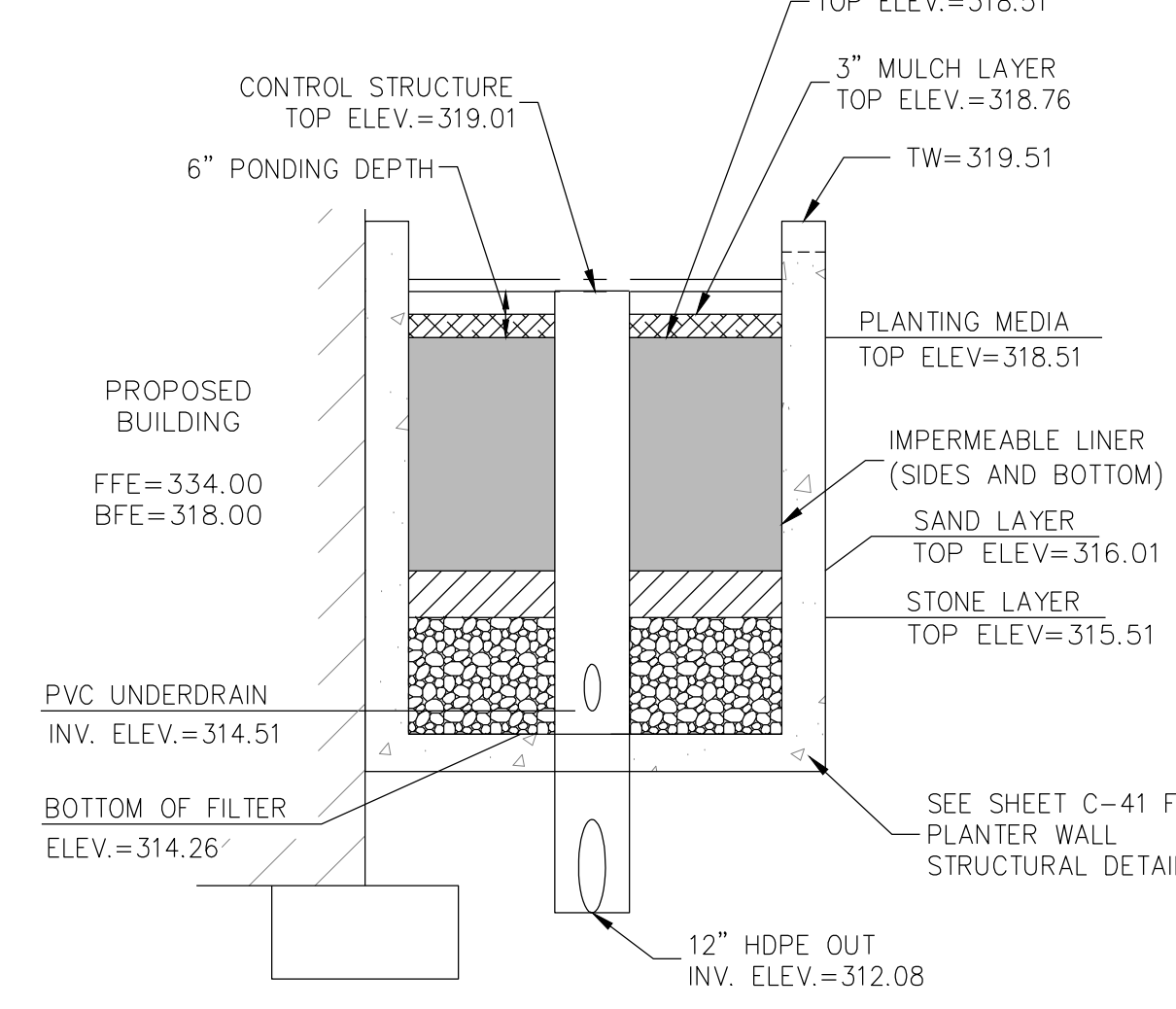


SWM-3: MICRO-BIORETENTION  
SCALE: 1"=5'

SWM #3: MICRO-BIORETENTION  
DRAINAGE AREA: 10,495 SF  
IMPERVIOUS AREA: 10,495 SF  
FACILITY SURFACE AREA: 6,272 SF  
FACILITY SURFACE ELEVATION: VARIES  
PONDING ELEVATION: VARIES  
ESDV: 1,013 CF



WEIR DETAIL  
SCALE: NTS



SWM 3: SECTION B-B  
SCALE: NTS

STORMWATER MANAGEMENT PLANTER WALL INSTALLATION NOTE  
CONTRACTOR TO CONFIRM LISTED TOP OF WALL ELEVATIONS IN FIELD AND ENSURE COORDINATION WITH BRICK COURSING ON BUILDING FACE. PLANTER WALLS SHALL SIT JUST BELOW ANY GIVEN COURSE OF BRICKS WITHOUT VARIATION OR ADJUSTMENT TO THE ARCHITECTURAL DESIGN INTENT OF THE BRICK FACING.

### AS-BUILT DATA FOR STORMWATER MANAGEMENT FACILITIES TO BE COMPLETED BY THE CERTIFYING DESIGN ENGINEER

TYPE OF FACILITY: MICRO-BIORETENTION	SWM #2		SWM #3	
	DESIGN	*AS-BUILT	DESIGN	*AS-BUILT
FILTER BED AREA (LxW / SURFACE AREA) (SF)	77.5'x5.2' / 402 SF		64.0'x9.8' / 627 SF	
PLANTING MEDIA TOP ELEVATION	331.41		VARIES	
OUTLET PIPE SIZE / ELEVATION	12" HDPE / 325.08		12" HDPE / 312.08	
UNDERDRAIN PIPE SIZE / ELEVATION	6" PVC / 327.41		6" PVC / 314.51	
MICRO-BIORETENTION VOLUME	1,190 CF		2,869 CF	
MULCH THICKNESS	3"		3"	
PLANTING MEDIA THICKNESS	30"		30"	
SAND THICKNESS	6"		6"	
UNDERDRAIN GRAVEL THICKNESS	15"		15"	
OVERFLOW INLET DIAMETER/TOP ELEVATION	24" / 331.91		24" / 319.01	
UNDERDRAIN LENGTH	42'±		72'±	
DATE AS-BUILT ACCEPTED BY DPW:				

### AS BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE STORMWATER MANAGEMENT FACILITY SHOWN ON THE PLANS HAS (HAVE) BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS APPROVED BY THE CITY OF ROCKVILLE, EXCEPT AS NOTED IN RED ON THE "AS BUILT" DRAWINGS.

NAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_  
 MARYLAND REGISTRATION NUMBER \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY OF ROCKVILLE REVIEW NO. \_\_\_\_\_ FACILITY IDENTIFICATION (NUMBER AND/OR TYPE) \_\_\_\_\_  
 "CERTIFY" MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED ON SUFFICIENT AND APPROPRIATE ON-SITE INSPECTIONS AND MATERIAL TESTS CONDUCTED DURING CONSTRUCTION.

### PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO. \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

### AS-BUILT CERTIFICATION REQUIREMENTS:

- THE CONTRACTOR SHALL PREPARE AND MAINTAIN A SET OF "RED LINED" AS-BUILT PLANS FOR ALL MATERIALS, DIMENSIONS, LENGTHS, DEPTHS AND ELEVATIONS RELATING TO THE CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES AS SPECIFIED ON THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL ALSO COORDINATE AND ARRANGE FOR ALL REQUIRED INSPECTIONS THROUGHOUT THE CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD A MINIMUM OF 1 WEEK IN ADVANCE OF THE PROPOSED CONSTRUCTION.
- THE CONTRACTOR SHALL ENSURE THAT THE STORMWATER MANAGEMENT FACILITIES ARE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH THE "RED LINED" AS-BUILT PLANS FOR REVIEW AND ACCEPTANCE PRIOR TO FINAL STABILIZATION.

### CONSTRUCTION INSPECTION CHECK-OFF LIST FOR BIOTRIFICATION FACILITY (BF)

STAGE	DESIGN ENGINEER (DE)	GEOTECHNICAL ENGINEER (GEO)	City Designated INSPECTOR	MNCRP & OTHER
	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE	INITIALS/DATE
1. MANDATORY NOTIFICATION (Inspection and approval by the party indicated is required at these points prior to proceeding with construction. The permittee is required to give the required inspection parties twenty-four (24) hours notice. The Designated Inspector (DI) may waive an inspection, provided the design engineer (DE) and/or geotechnical engineer (GEO) make the required inspection per a pre-scheduled arrangement which has been confirmed with the Designated Inspector. Work completed without the necessary party's approval may result in the permittee having to remove and reconstruct the unapproved work. The permittee must maintain a "record set" of approved Sketch plans on-site.)				
2. Pre-construction meeting & final review of tree save flagging (DE) and (MNCRP&P)				
3. Settlement control installation				
4. Grading and erosion control area to biotritification facility				
5. Excavate biotritification facility (DE) or (GEO)				
6. Install sand, gravel, observation wells, and any other required pipe (DE) or (GEO)				
7. Install granular soil and mulch layer (DE) or (GEO)				
8. Install perimeter stabilization and placement of final cover. Place all fence around bioretenion facility.				
9. Install permanent landscaping/vegetative stabilization (DE) or (GEO)				
10. Submit record drawings and documentation to CTF - City Engineer including a completed check-off list and all delivery tickets (DE)				
11. Unblock any storm drain drawing to facility with DPB inspector's written approval. Install any necessary trash racks on flow splitter structures.				
12. Final inspection (DE) and (GEO)				

NOTES:  
 1. Permittee to supply Design Engineer with delivery tickets for all materials used in bioretention facility construction.  
 2. See construction specifications on this plan for detailed requirements.  
 3. A copy of this completed checklist must be submitted as part of the stormwater management as-built package.  
 Designated Inspector Telephone: MNCRP&P Inspector Telephone: (301)495-4571

Catherine and Isiah Leggett Math and Science Building  
 Montgomery College  
 Takoma Park / Silver Spring Campus  
 7600 Takoma Avenue  
 Takoma Park, MD 20912  
 Montgomery College Project #: FP16-077  
 Montgomery College Building #319  
 MHEC Project # CC-01-MC16-458

USING AGENCY APPROVAL  
 NAME \_\_\_\_\_ DATE \_\_\_\_\_  
 TITLE \_\_\_\_\_  
 DGS APPROVAL  
 PROJECT MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF OF PM&D \_\_\_\_\_ DATE \_\_\_\_\_

SMITHGROUP  
 1700 NEW YORK AVENUE NW  
 SUITE 100  
 WASHINGTON, DC 20006  
 202.842.2100  
 www.smithgroup.com

AMT Engineering  
 CIVIL ENGINEERS  
 800 King Farm Boulevard, 4th Floor  
 Rockville, MD 20850  
 301-881-2545

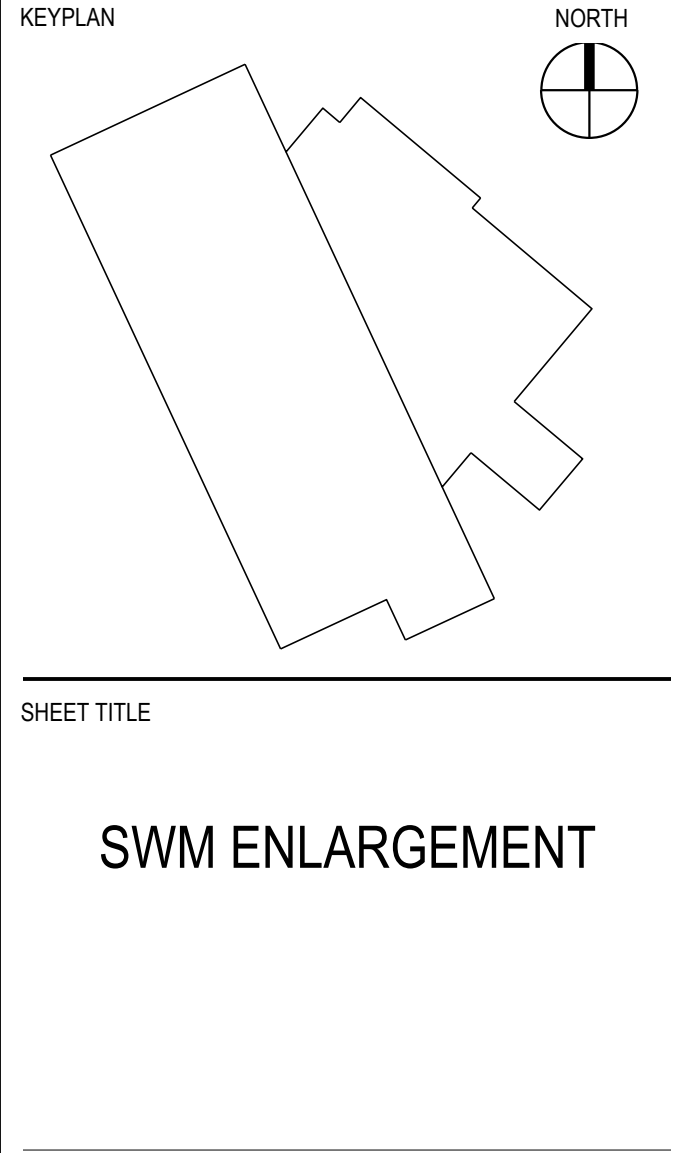
Cagley & Associates  
 STRUCTURAL ENGINEERS  
 5141 Executive Boulevard  
 Rockville, MD 20852  
 301-881-9050

Mahan Rykiel  
 LANDSCAPE ARCHITECTS  
 3300 Cliffer Mill Road, Suite 200  
 Baltimore, MD 21211  
 410-235-6001

Spexsys  
 AV. IT SECURITY  
 7257 Parkway Drive, Suite 260  
 Hanover, MD 21076  
 410-712-0390

DWG FILE:  
 DRAWN BY:  
 CHECKED BY:  
 ISSUED FOR \_\_\_\_\_ REV DATE \_\_\_\_\_

SEALS AND SIGNATURES  
 PROFESSIONAL CERTIFICATION  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 MICHAEL C. WYCHULIS, P.E.  
 LICENSE NO. 32561 EXPIRATION DATE 01/06/22



PROJECT NUMBER \_\_\_\_\_ SHEET TITLE SWM ENLARGEMENT SHEET NUMBER \_\_\_\_\_

MISS UTILITY  
 48 HOURS BEFORE YOU DIG  
 CALL "MISS UTILITY" AT 811  
 OR LOG ON TO www.missutility.net





