



October 8, 2025

Mr. CJ Overly
BXP Shady Grove Lot 5, L.L.C.
c/o Boston Properties, Inc.
2200 Pennsylvania Avenue, NW, Suite 200W
Washington, District of Columbia 20037

SUBJECT: 15815 Shady Grove Road – Shady Grove Innovation District – Development
Stormwater Management Concept Approval; SMC2024-00009, STP2024-00492

Dear Mr. Overly:

The Development Stormwater Management (SWM) Concept (Concept) received on May 28, 2024, for the above referenced site is conditionally approved. Staff has determined that the Development SWM Concept, as described below, achieves the required level of on-site Environmental Site Design (ESD) to the Maximum Extent Practicable (MEP), $P_E = 1.08$ -inch, equivalent to 60 percent of the required ESD volume (ESD_V), which meets or exceeds the level of ESD established by the Pre-Application SWM Concept letter dated January 4, 2019.

This site is 3.95 acres and is identified as Lot 5, Danac Technological Park, situated at 15815 Shady Grove Road, southeast of the intersection of Shady Grove Road and Choke Cherry Road. The proposed development includes the construction of a multi-family building. The property is located in the Muddy Branch Watershed and Watts Branch Watershed and is zoned MXE (Mixed Use Zone). The on-site soils are predominately Urban Land which is classified as hydrologic soil group (HSG) D.

According to the Rockville City Code (Code), Chapter 19, Section 19-2, Definitions of the Code, the Site qualifies as Redevelopment because it proposes construction on a property where existing imperviousness is greater than 40 percent of the site. The property is currently 81 percent impervious.

In accordance with the Code, Chapter 19, Section 19-45 of the Code, SWM is required for all new and replacement impervious area within the entire site area including all impervious area previously existing on the site that does not have SWM to current standards. According to the submitted Concept, the total limit of disturbance is 3.95 acres which is 100 percent of the site, and the on-site impervious area subject to SWM is 3.02 acres.

Mr. CJ Overly
October 8, 2025
Page 2

Per the Code, Chapter 19, Section 19-46, SWM also must be provided for imperviousness in a portion of the adjacent Shady Grove Road Right-of-Way (ROW). According to the submitted Concept, the total impervious area in the adjacent ROW subject to SWM is 0.55 acres.

Your proposed Development SWM Concept, as shown on the attachment, is summarized as follows:

ON-SITE SUMMARY

Proposed new or replacement impervious areas are summarized as:

- Multi-family building.

Total on-site impervious area subject to SWM = 3.02 acres.

Environmental Site Design Measures

- The Concept proposes to provide a minimum $P_E = 1.08$ -inch equivalent to 60 percent of the required ESD_V in the following on-site measures:
 - Nine Micro-bioretenention Facilities.
- Summary of ESD:
 - Total ESD_V provided = 11,503 cubic feet (cf.).
 - Total ESD_V required = 19,229 cf.
 - Percentage of ESD_V provided = 11,503 cf./ 19,229 cf. = 60 percent.

Structural Measures and/or Alternative Measures –

- Alternative Measures – Monetary contribution in-lieu of providing full ESD and in-lieu of providing Q_{p10} for the 3.02 acres of on-site impervious area.

ROW SUMMARY

Structural Measures and/or Alternative Measures –

- Alternative Measures – Monetary contribution in-lieu of providing WQ_V , Cp_V , and Q_{p10} for the 0.55 acres of impervious area in the adjacent ROW of Shady Grove Road.

CONDITIONS OF APPROVAL

Staff has determined that ESD to the MEP has been met.

The next step in the City of Rockville (City) SWM approval process is submission of a SWM Construction Plan for review and approval by the Department of Public Works (DPW) prior to permit issuance. In accordance with the Code, Chapter 19, Section 19-44, SWM must be provided by one of the following methods, which are listed in order of priority respectively: on-site ESD measures, on-site structural measures, and alternative measures which may include a monetary contribution.

This Development SWM Concept is conditionally approved subject to the following conditions, which must be addressed at the stages in the process as indicated below:

- 1) Submit a Stormwater Management Permit (SMP) Application, including the application and plan review fee, which is based on an initially submitted SWM construction estimate, in

Mr. CJ Overly
October 8, 2025
Page 3

conjunction with detailed SWM plans (24"x36") and computations signed and sealed by a Professional Engineer (PE) licensed in the State of Maryland, except as otherwise noted, for review and approval by the DPW.

- 2) The submitted material must:
 - a) Demonstrate compliance with this Concept including locations, types, and sizing of ESD measures.
 - b) Include computations and construction details for review and approval by DPW:
 - i) Design shall be in conformance with the latest version of the Montgomery County Department of Permitting Services Design Specifications for nine micro-bioretenention facilities. Deviations from the specification must be approved by DPW.
 - ii) Computations and plans must show the ESD_v water surface elevation.
 - iii) Utilize flow splitters, curb cuts, flow through inlets, or other methods approved by DPW to direct.
 - iv) Overflow structures, underdrains, and tee configurations within the micro-bioretenention facilities must be shown on the SWM construction plans and approved by DPW.
 - v) Where proximity of the micro-bioretenention facilities to the multi-family building is less than 10-feet, a licensed professional engineer in the State of Maryland must determine if any special treatment, including impermeable liners, is required. Evidence of such investigation and recommendation must be provided with the final engineering.
 - vi) Include the design, construction specifications, plant media depth, plant media specifications, planting schedule with types, sizes, and quantities of planting material for the micro-bioretenention facilities.
 - vii) SWM practices located within the public right-of-way must provide fall prevention barriers and follow Montgomery County Department of Transportation's (MCDOT) requirements for SWM facilities in the ROW. SWM practices adjacent to pedestrian and parking uses shall meet MCDPS WRTP-8 design guidelines for safe placement and fall prevention barriers.
 - viii) Architectural/plumbing plans for the building must clearly detail the routing of roof runoff through the building to the micro-bioretenention facilities and must be provided for review to DPW.
 - ix) Include a landscape design that has been coordinated with the Forest Conservation Plan (FCP), where applicable. The plan should include a planting schedule with types, sizes, and quantities of planting material, planting details, and notes, signed and sealed by a Landscape Architect licensed in the State of Maryland. The plan should differentiate between what planting material will be approved, bonded, and permitted with the SWM plan and what will be part of the Forestry Permit. The Landscape plan must show all stormwater appurtenances including pipes, overflow structures, inflow protection, etc. to ensure there are no conflicts.
 - c) Identify paths for safe overland flow of the 100-year storm event with flow arrows.
 - d) Demonstrate that all components of the SWM system drain by gravity. Pumping of stormwater will not be permitted.
- 3) Storage provided exceeding the amount require to treat the one year, 24-hour design storm shall not be credited towards the total water quality (ESD or structural) volume provided.
- 4) The Applicant shall make a monetary contribution to the City Stormwater Fund as an Alternative to providing Cp_v, WQ_v, and Qp₁₀ for any new or replacement impervious area created by the construction of the development not treated on-site; and as an Alternative to providing Cp_v, WQ_v, and Qp₁₀ for the contiguous ROW. Calculations for the contribution shall be submitted with the SMP application utilizing the final engineering impervious area

Mr. CJ Overly
October 8, 2025
Page 4

and the monetary contribution rate in effect at that time. The contribution must be paid prior to SMP permit issuance.

- i) Monetary contribution is required for the following:
 - o Impervious area used is based on the prorated area that is not treated by ESD practices. On-site ESD is provided for 60 percent of the required volume; therefore, 40 percent of the 3.02 acre (1.21 acre) must be provided by a SWM alternative (Monetary Contribution). Partial WQ_v is calculated at 50 percent of the WQ_v rate applied to the impervious area not treated. Partial Cp_v is calculated at 100 percent of the Cp_v rate applied to the impervious area not treated.
 - a) Full On-site Qp_{10} for 3.02 acres.
 - b) Full Contiguous ROW Cp_v , WQ_v , and Qp_{10} for 0.55 acres.
- 5) The SWM facilities on-site shall be privately maintained. Submit to DPW staff a SWM Easement, Inspection, and Maintenance Agreement for the proposed SWM measures. The SWM Agreement is subject to review and approval by DPW and the City Attorney's Office and is to be executed by the property owner and other parties of interest. Access to the SWM facilities will be determined in conjunction with final engineering and must be included in the SWM Agreement. The SWM Agreement must be recorded in the Montgomery County Land Records prior to SMP permit issuance. Plans must delineate and label SWM easements.
- 6) Submit on-site Storm Drain plans (24"x36") and computations signed and sealed by a PE licensed in the State of Maryland, except as otherwise noted, for DPW.
- 7) Post financial security based on the final approved SWM construction cost estimate in a format acceptable to the City Attorney, either by letter of credit or performance bond. Approval, which is coordinated through DPW staff, is required prior to SMP permit issuance.
- 8) Obtain approval of an FCP from the City Forester prior to DPW issuance of the SMP permit.
- 9) Required approvals and permits for drainage connections to existing storm drains in MCDOT easements and ROWs must be obtained prior to the issuance of a SMP.
- 10) Obtain approval from WSSC for any WSSC utilities crossing proposed ESD facilities prior to the issuance of a SMP.

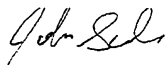
This SWM approval does not supersede or negate other required project approvals. The Concept approval is contingent upon compliance of all other City and other governmental agency requirements including, but not limited to, City Forestry, Traffic and Transportation, and Planning and Development Services.

Any significant changes to the proposed development may result in the requirement to submit a revised Development SWM Concept with review fee for approval by DPW.

Mr. CJ Overly
October 8, 2025
Page 5

If you have any questions, please contact Senior Civil Engineer David Waterman via email at dwaterman@rockvillemd.gov or via telephone at 240-314-8523.

Sincerely,



John Scabis, P.E.
Chief of Engineering

JKS/DJW/ktt

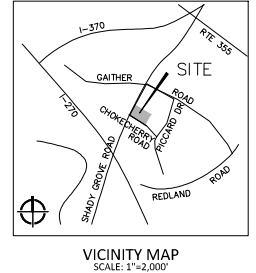
Attachments: Shady Grove Innovation District – Development SWM Concept Plan, dated May 23, 2025.

cc: James Lapping, P.E., Engineering Supervisor
Shaun Ryan, Planning Supervisor
Kimia Zolfagharian, Principal Planner
Laurent Mounaud, VIKA
SWM Concept file
Permit plan, SMC2024-00009, STP2024-00492
Day file

SHADY GROVE INNOVATION DISTRICT

DEVELOPMENT STORMWATER MANAGEMENT PLAN

PHASE 2 - RESIDENTIAL MULTIFAMILY



4TH ELECTION DISTRICT, CITY OF ROCKVILLE
MONTGOMERY COUNTY, MARYLAND
SMC2024-00009

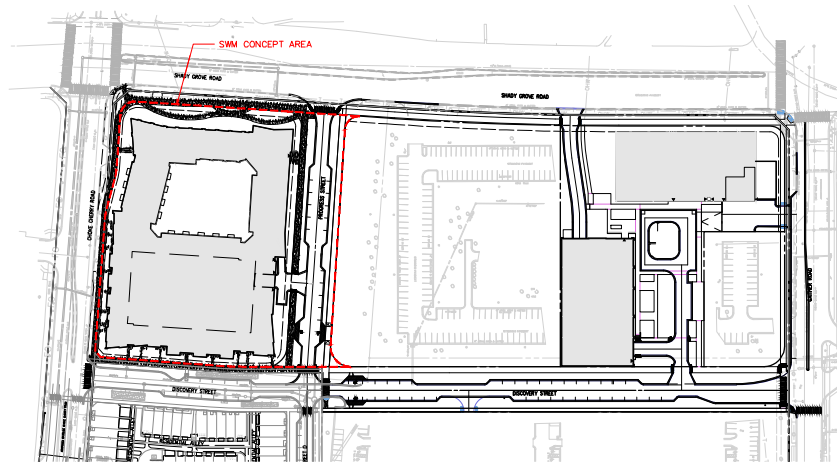
SWM CONCEPT SUMMARY TABLE	
General Property Information	
SMC# 2024-00009	
Type of Concept: Stormwater Management Concept Development	
Development Review Process Case No.: SMC2024-00009	
Property Address: 15815 Shady Grove Road, Rockville MD 20850	
Property Legal Description: Lot 5, Block NA, Subdivision: Danac Technological Park	
Property Size (ac./sq.ft.): 30.55 acres / 1,331,105 square feet (Project Plan P172017-00007 Area)	
Total Concept Area (ac./sq.ft.): 3.95 acres / 172,329 square feet	
Zoning: MKE	
Watershed: Muddy Branch and Watts Branch Watersheds	
100 YR Floodplain: n/a	
Ex: % Impervious/Redevelopment or New Development: 81.03% over entire Project Plan P172017-00007 Area - Redevelopment	
SWM Summary	
Total On-Site Impervious Area subject to SWM: 3.02 acres (131,543 sq. ft.)	
Required P _r /Proposed P _r : 1.8 inches/ 1.08 inches	
Target ESD/Provided ESD: 19,229 cu.ft. / 11,503 cu.ft.	
ESD Measures: 3 Micro Bio-retention Facilities	
Structural Storage Required/Provided: WQs to be provided by SWM Pond constructed under previous phase	
Structural Measures: SWM Pond constructed under a previous phase	
Qp10 10-Year Quantity Control Measures: Monetary Contribution	
Contiguous Right-of-Way Impervious Area subject to SWM: 0.15 acres	
Contiguous Right-of-Way Cpu (Channel Protection Volume) and WQs (Water Quality Volume) Measures: Monetary Contribution	
Contiguous Right-of-Way Qp10 10-Year Quantity Control Measures: Monetary Contribution	

NOTE:
THIS DEVELOPMENT STORMWATER MANAGEMENT PLAN ASSUMES THE PROPOSED REGIONAL POND (SMP2025-00005) WILL BE BUILT PRIOR TO REQUESTING PERMIT ISSUANCE FOR PROPOSED PHASE 2 DEVELOPMENT.

SWM FACILITY SUMMARY TABLE											
Micro Bio-retention Facility	Total DA (Ac.)	Impervious Area (Ac.)	Percent Impervious	Planter Area (sq.)	Planting Media Depth (in)	ESD _{max} P _r =1" (cf)	VOL _{max} P _r =2.6" (cf)	ESD _v Provided (in)	P _r Achieved (in)		
MBF-MF1	0.36	0.34	94%	648	30	1,171	3,008	1,426	1.2		
MBF-MF2	0.32	0.31	97%	489	48	1,930	2,815	1,397	1.3		
MBF-MF3	0.38	0.37	97%	634	48	2,292	3,310	1,775	1.4		
MBF-MF4	0.45	0.42	93%	1,254	48	2,608	3,767	3,511	2.4		
MBF-MF5	0.11	0.11	100%	204	48	663	1,029	571	1.4		
						Total On-Site ESD Volume Provided =		8,888	1.68		
MBF-P1	0.13	0.10	77%	212	48	351	912	594	1.7		
MBF-P2	0.22	0.03	14%	212	48	363	945	594	1.6		
MBF-P3	0.24	0.13	54%	292	48	467	1,214	818	1.8		
MBF-P4	0.18	0.13	72%	292	48	456	1,186	818	1.8		
						Total Progress St ROW ESD Volume Provided =		2,822	1.44		
						Total ESD Volume Provided =		11,503	1.68		

WATTS BRANCH SWM FACILITY SUMMARY TABLE											
Micro Bio-retention Facility	Total DA (Ac.)	Impervious Area (Ac.)	Percent Impervious	Planter Area (sq.)	Planting Media Depth (in)	ESD _{max} P _r =1" (cf)	VOL _{max} P _r =2.6" (cf)	ESD _v Provided (in)	P _r Achieved (in)		
MBF-MF2	0.32	0.31	97%	489	48	1,930	2,815	1,397	1.3		
MBF-P1	0.13	0.10	77%	212	48	351	912	594	1.7		
MBF-P2	0.22	0.03	14%	212	48	363	945	594	1.6		
MBF-P3	0.24	0.13	54%	292	48	467	1,214	818	1.8		
MBF-P4	0.18	0.13	72%	292	48	456	1,186	818	1.8		
						Total Watts Branch ESD Volume Provided =		4,220	0.97		

MUDDY BRANCH SWM FACILITY SUMMARY TABLE											
Micro Bio-retention Facility	Total DA (Ac.)	Impervious Area (Ac.)	Percent Impervious	Planter Area (sq.)	Planting Media Depth (in)	ESD _{max} P _r =1" (cf)	VOL _{max} P _r =2.6" (cf)	ESD _v Provided (in)	P _r Achieved (in)		
MBF-MF1	0.36	0.34	94%	648	30	1,171	3,008	1,426	1.2		
MBF-MF3	0.38	0.37	97%	634	48	2,292	3,310	1,775	1.4		
MBF-MF4	0.45	0.42	93%	1,254	48	2,608	3,767	3,511	2.4		
MBF-MF5	0.11	0.11	100%	204	48	663	1,029	571	1.4		
						Total Muddy Branch ESD Volume Provided =		7,283	1.00		



SHEET INDEX

- 1 OF 4 COVER SHEET
- 2 OF 4 PLAN
- 3 OF 4 INVERT STUDY
- 4 OF 4 DETAILS

STORMWATER MANAGEMENT CONCEPT GENERAL NOTES

1. ALL STORM DRAIN PIPES PROPOSED ARE EITHER REINFORCED CONCRETE PIPE (RCP), HIGH PERFORMANCE POLYPROPYLENE (HP) OR POLYVINYL CHLORIDE (PVC).
2. STORM DRAIN PIPE SIZES SHOWN ARE ESTIMATED AND ARE SUBJECT TO CHANGE DURING FINAL ENGINEERING DESIGN.
3. QUANTITY AND LOCATION OF ENVIRONMENTALLY SENSITIVE DESIGN (ESD) MEASURES ARE SUBJECT TO CHANGE DURING FINAL ENGINEERING DESIGN.
4. ALL WATER AND SEWER LINES SHOWN ARE APPROXIMATE AND ARE SUBJECT TO CHANGE UPON FINAL ENGINEERING DESIGN.
5. ALL UTILITY LAYOUTS SHOWN ON THIS CONCEPT PLAN ARE SUBJECT TO ADJUSTMENT IN LOCATION, SIZE AND CONFIGURATION DURING FINAL ENGINEERING TO ACCOMMODATE LOCATIONS OF TREES, DRY UTILITIES, STREET LIGHTS AND OTHER CONFLICTING FEATURES. LAYOUTS SHOWN HEREON ARE CONCEPTUAL AND NOT INTENDED TO REFLECT FINAL LOCATION OF THESE UTILITIES.
6. ESD PLANTER BOX FACILITIES IN THE PUBLIC RIGHT-OF-WAY SHALL HAVE A VERTICAL DROP (MEASURED FROM THE TOP OF WALL TO THE TOP OF THE FILTER MEDIA ELEVATION) OF LESS THAN 24-INCHES AND MUST PROVIDE AN 18-INCHES SAFETY FENCE/RAIL.
7. ESD PLANTER BOX FACILITIES SHALL FOLLOW THE BUILDING CODE FOR SAFETY FENCE REQUIREMENTS. A 42-INCHES FENCE SHALL BE PROVIDED FOR VERTICAL DROP (MEASURED FROM THE TOP OF WALL TO THE TOP OF THE FILTER MEDIA ELEVATION) OF MORE THAN 30-INCHES AND A 10" SAFETY FENCE SHALL BE PROVIDED FOR VERTICAL DROP BETWEEN 24" AND 30".
8. ESD PLANTER BOXES SHALL BE OUTSIDE OF THE BUILDING FOUNDATION ZONE OF INFLUENCE. THE BUILDING FOUNDATION DESIGN SHALL TAKE INTO CONSIDERATION LOADS ASSOCIATED WITH THE ESD PLANTER BOX.

OWNER/DEVELOPER
BOSTON PROPERTIES, INC.
2200 PENNSYLVANIA AVE, NW
SUITE 200W
WASHINGTON, DC 20037
PHONE: 202-585-0800
ATTENTION: CJ OVERLY
EMAIL: coverly@bpx.com

CIVIL ENGINEER
VIKA MARYLAND, LLC
20251 CENTURY BOULEVARD
SUITE 400
GERMANTOWN, MD 20874
PHONE: 301-916-4100
ATTN: LAURENT G. MOUNAUD
EMAIL: mounaud@vika.com



VIKA MARYLAND, LLC
20251 CENTURY BLVD., Suite 400
GERMANTOWN, MD 20874
301.916.4100 | vika.com
Our Site Set on the Future.

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. 36749, Expiration Date: JANUARY 31, 2027.

LAURENT G. MOUNAUD
NAME

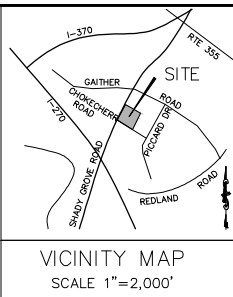
NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
WWW.MISSUTILITY.NET
OR
1-800-251-7777
FOR ALL
AT LEAST 48 HOURS
PRIOR TO THE START OF WORK

THIS PLAN IS FOR STORMWATER MANAGEMENT ONLY

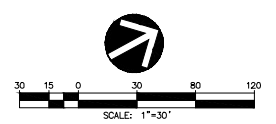
 	DESIGNED _____	DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND		DEVELOPMENT STORMWATER MANAGEMENT COVER SHEET	SHADY GROVE INNOVATION DISTRICT PHASE 2 DANAC TECHNOLOGICAL PARK SUBDIVISION 0201 ELECTION DISTRICT NO. 4 CITY OF ROCKVILLE, MARYLAND	DATE SUBMITTED: 05/23/2025	SCALE	SHEET NO. <u>1</u> OF <u>4</u>	FILE #
	DRAFTED _____					WMA JOB NO. VM50554			
	CHECKED _____								

LAYOUT: SMC2-01, Printed By: laurent.mounaud



PROPOSED SWM LEGEND

- LIMITS OF DISTURBANCE: ————
- PROP. RIGHT OF WAY: ————
- EXISTING SITE BOUNDARY: ————
- PROP. STORM DRAIN: ————
- PROP. DRAINAGE DIVIDES TO SWM FACILITIES: ————
- PROP. DRAINAGE DIVIDES TO WATERSHEDS: ————
- EX. DRAINAGE DIVIDES TO WATERSHEDS: ————
- STORMWATER EASEMENT: ————
- PROP. ESD FACILITY: [Pattern]
- PROPOSED IMPERVIOUS AREA TREATED BY ESD FACILITY: [Pattern]
- PROPOSED IMPERVIOUS AREA NOT TREATED BY ESD FACILITY: [Pattern]
- IMPERVIOUS AREA WITHIN CONTIGUOUS RIGHT OF WAY (30'): [Pattern]



BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
WWW.MISSUTILITY.NET
OR
1-800-255-7777
TOL 811
AT LEAST 48 HOURS
PRIOR TO THE LOCATION

DESIGNED _____
DRAFTED _____
CHECKED _____

THIS PLAN IS FOR STORMWATER MANAGEMENT ONLY

DESIGNED _____
DRAFTED _____
CHECKED _____

DEPARTMENT OF PUBLIC WORKS
CITY OF
ROCKVILLE
111 MARYLAND AVE.
ROCKVILLE, MARYLAND

DEVELOPMENT STORMWATER MANAGEMENT CONCEPT - PHASE 2A PLAN

SHADY GROVE INNOVATION DISTRICT
PHASE 2
DANAC TECHNOLOGICAL PARK
SUBDIVISION 0201
CITY OF ROCKVILLE, MARYLAND
ELECTION DISTRICT NO. 4

APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL				
NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW

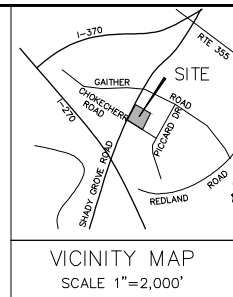
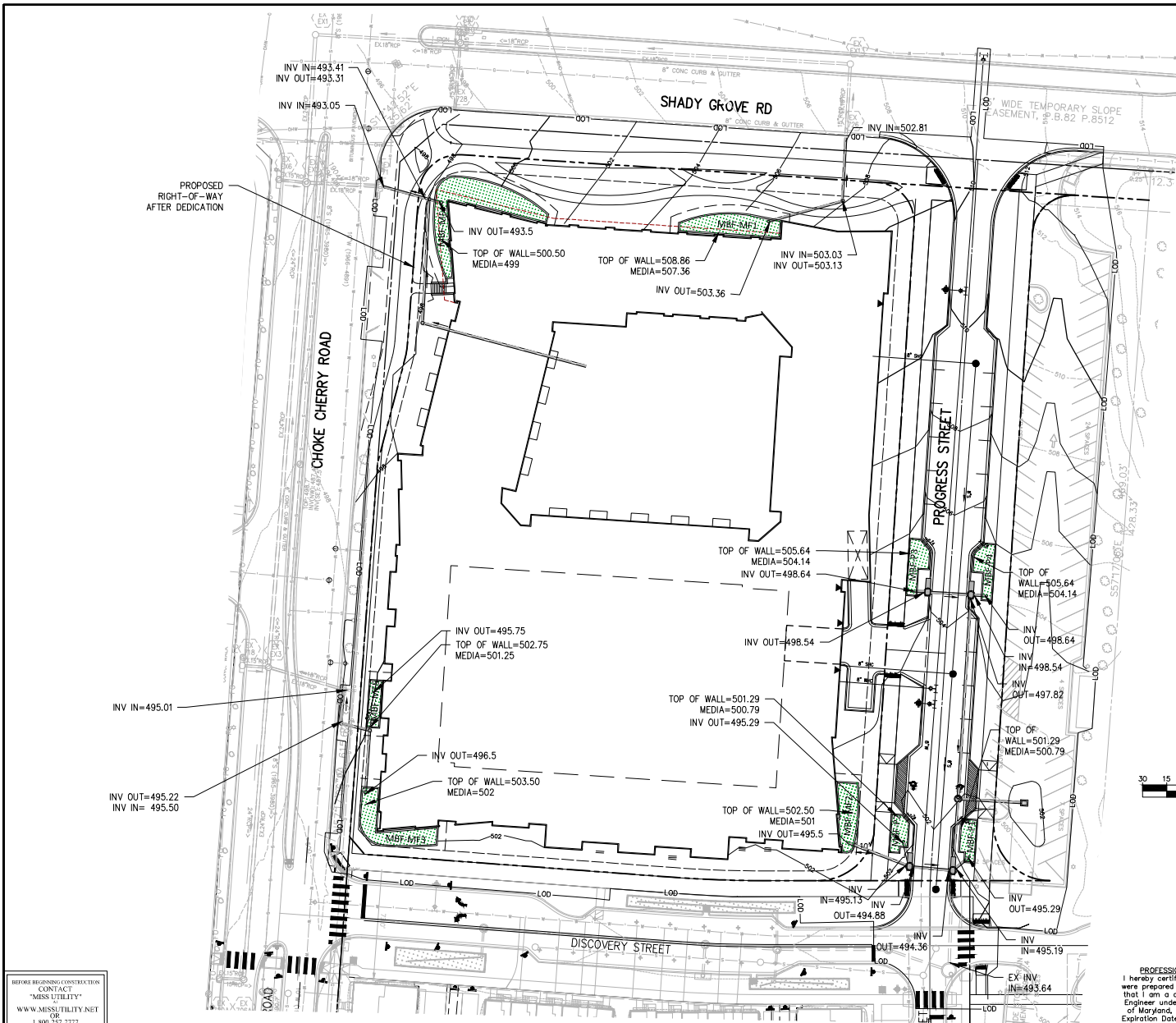
PROFESSIONAL SEAL

Vika MARYLAND, LLC
20251 Century Blvd., Suite 400
Germantown, MD 20874
301.916.4100 | vika.com
Our Site Set on the Future.

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. 36749
Expiration Date: JANUARY 21, 2027
LAURENT S. MOINAUD
NAME

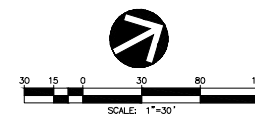
DATE SUBMITTED: 09/20/2024
Vika JOB NO. VM50554

SCALE: SHEET NO. 2 OF 4
FILE #



PROPOSED SWM LEGEND

- LIMITS OF DISTURBANCE ————
- PROP. RIGHT OF WAY ————
- EXISTING SITE BOUNDARY ————
- PROP. STORM DRAIN ————
- PROP. ESD FACILITY [Green Shaded Box]



BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
WWW.MISSUTILITY.NET
OR
1-800-255-7777
TOL 811
AT LEAST 48 HOURS
PRIOR TO THE LOCATION

THIS PLAN IS FOR STORMWATER MANAGEMENT ONLY

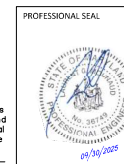
DESIGNED	DEPARTMENT OF PUBLIC WORKS
DRAFTED	CITY OF
CHECKED	ROCKVILLE
	111 MARYLAND AVE. ROCKVILLE, MARYLAND

DEVELOPMENT STORMWATER
MANAGEMENT CONCEPT -
PHASE 2A INVERT STUDY

SHADY GROVE INNOVATION DISTRICT
PHASE 2
DANAC TECHNOLOGICAL PARK
SUBDIVISION 0201
ELECTION DISTRICT NO. 4
CITY OF ROCKVILLE, MARYLAND

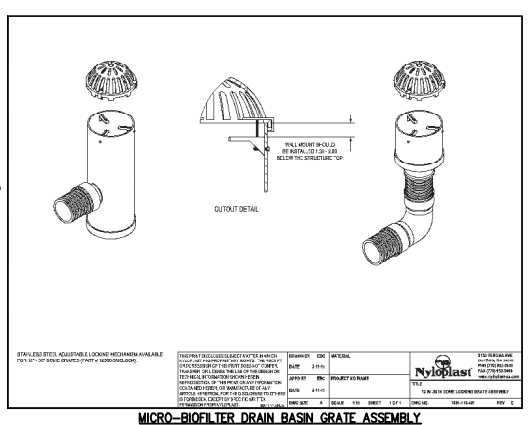
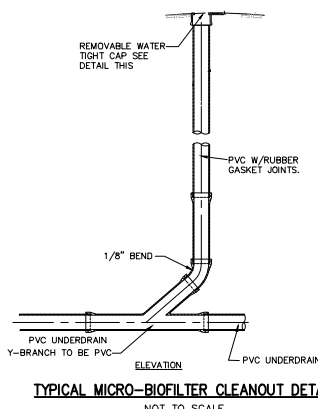
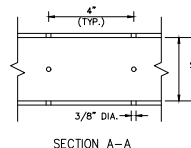
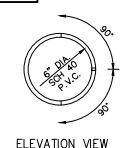
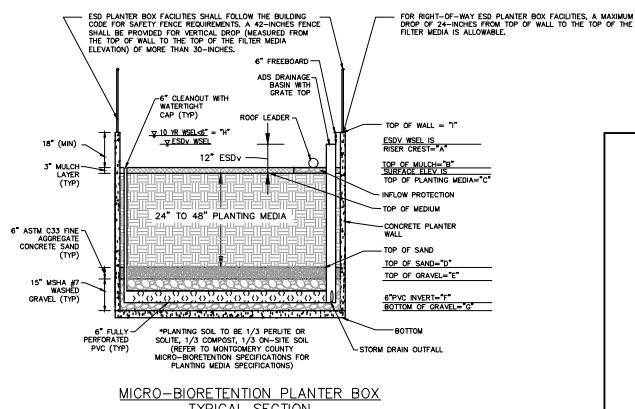
APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL				
NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW

DATE SUBMITTED: 05/23/2025	SCALE	SHEET NO. 3	FILE #
VKA JOB NO. VM50554		OF 4	



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. 36749.
Expiration Date: JANUARY 21, 2027

LAURENT G. MOUNAUD
NAME

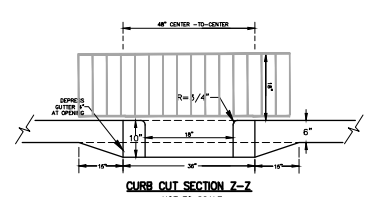
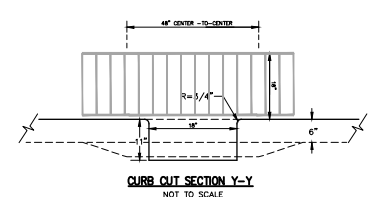
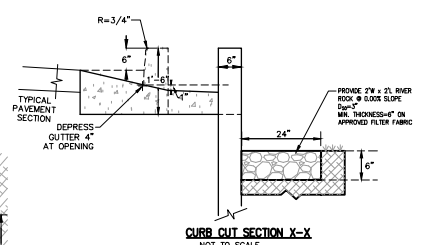
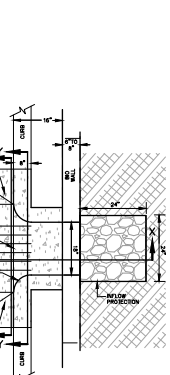


PLANTER STYLE									
FACILITY	A	B	C	D	E	F	G	H	I
MBF-MF1	508.36	507.61	507.36	504.66	504.36	503.36	503.11	508.64	508.86
MBF-MF2	502	501.25	501	497	496.5	495.5	495.27	502.27	502.50
MBF-MF3	503	502.25	502	498	497.5	496.5	496.25	503.16	503.50
MBF-MF4	500	499.25	499	495	494.5	493.5	493.25	500.32	500.50
MBF-MF5	502	501.25	501	497	496.5	495.5	495.25	502.09	502.50

ROADSIDE BIO									
FACILITY	A	B	C	D	E	F	G	H	I
MBF-P1	501.79	501.04	500.79	496.79	496.25	495.25	495.04	501.91	502.25
MBF-P2	501.79	501.04	501.79	496.79	496.25	495.25	495.04	501.88	502.25
MBF-P3	505.14	504.39	505.14	500.14	499.64	498.64	498.39	505.27	505.64
MBF-P4	505.14	504.39	505.14	500.14	499.64	498.64	498.39	505.28	505.64

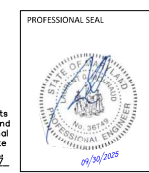
MICRO-BIORETENTION FACILITY - 10YRWSEL											
										INPUT	OUTPUT
Facility	A _{head} (ft)	A _{in} (ft)	C	I _{10YRWSEL} (in/hr)	Q _{10Y} (cfs)	Nyloplast Dome Grate Diameter (ft)	Head (ft)	Top of Media	Inlet Rim Elevation	Top of Wall Elevation	Pond 10-YRWSEL
MBF-MF1	15.485	14.847	0.90	7.07	2.26	1.5	0.28	507.36	508.36	508.86	508.64
MBF-MF2	14.078	13.579	0.91	7.07	2.07	1.5	0.27	501.00	502.00	502.50	502.27
MBF-MF3	16.611	15.977	0.90	7.07	2.43	1.5	0.16	502.00	503.00	503.50	503.16
MBF-MF4	19.475	18.221	0.87	7.07	2.75	1.5	0.32	499.00	500.00	500.50	500.32
MBF-MF5	5.000	4.798	0.90	7.07	0.73	1.5	0.59	501.00	502.00	502.50	502.09
MBF-P1	5.590	4.276	0.66	7.07	0.60	1.5	0.12	500.79	501.79	502.29	501.91
MBF-P2	9.541	4.233	0.25	7.07	0.39	1.5	0.09	500.79	501.79	502.29	501.88
MBF-P3	10.262	5.514	0.37	7.07	0.62	1.5	0.13	504.14	505.14	505.64	505.27
MBF-P4	7.713	5.485	0.59	7.07	0.74	1.5	0.14	504.14	505.14	505.64	505.28

*HEAD IS CALCULATED USING NYLOPLAST DOME GRATE INLET CAPACITY CHARTS



DETAILS FOR INFORMATION ONLY
NOT APPROVED BY THIS CONTRACT

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. 36745
Expiration Date: JANUARY 21, 2027
LAURENT G. MOUNAUD
NAME



Vika Maryland, LLC
20251 Century Blvd., Suite 400
Germantown, MD 20874
301.916.4100 | vika.com

Our Site Set on the Future.

NO.	DESCRIPTION OF REVISION	P.E. INITIAL	DATE	DPW	DATE

BEFORE BEGINNING CONSTRUCTION
CONTACT
"MISS UTILITY"
WWW.MISSUTILITY.NET
OR
1-800-253-7777
AT LEAST 48 HOURS
PRIOR TO THE LOCATION

THIS PLAN IS FOR STORMWATER MANAGEMENT ONLY

DESIGNED _____ DRAFTED _____ CHECKED _____	DEPARTMENT OF PUBLIC WORKS CITY OF ROCKVILLE 111 MARYLAND AVE. ROCKVILLE, MARYLAND	DEVELOPMENT STORMWATER MANAGEMENT DETAILS	SHADY GROVE INNOVATION DISTRICT PHASE 2 DANAC TECHNOLOGICAL PARK SUBDIVISION 0201 ELECTION DISTRICT NO. 4 CITY OF ROCKVILLE, MARYLAND	DATE SUBMITTED: 05/23/2025	SCALE	SHEET NO. 4	FILE #
				APPROVAL OF REVISIONS AFTER INITIAL PLAN APPROVAL	DATE: 05/23/2025	SCALE: VM50554	SHEET OF 4

LAYOUTS: SCALE-W, PLOTTED BY: laurent.mounaud