

The Clean Water Partnership (CWP) is a Public-Private Partnership (P3) between Prince George's County and Corvias. The CWP is the first of its kind to design, build, finance, operate and maintain urban stormwater infrastructure to meet MS4 regulatory requirements and is committed to retrofit up to 4,000 impervious acres.



ANGELA D. ALSOBROOKS
COUNTY EXECUTIVE



Please visit thecleanwaterpartnership.com to learn more about this innovative partnership.

If you have any questions please email Kristina.Bigby@thecleanwaterpartnership.com or call Ms. Bigby at 202-255-6530.



Clean Water Partnership Program
9475 Lottsford Road, Suite 100
Largo, MD 20774

CLEAN WATER PARTNERSHIP

UNIVERSITY PARK

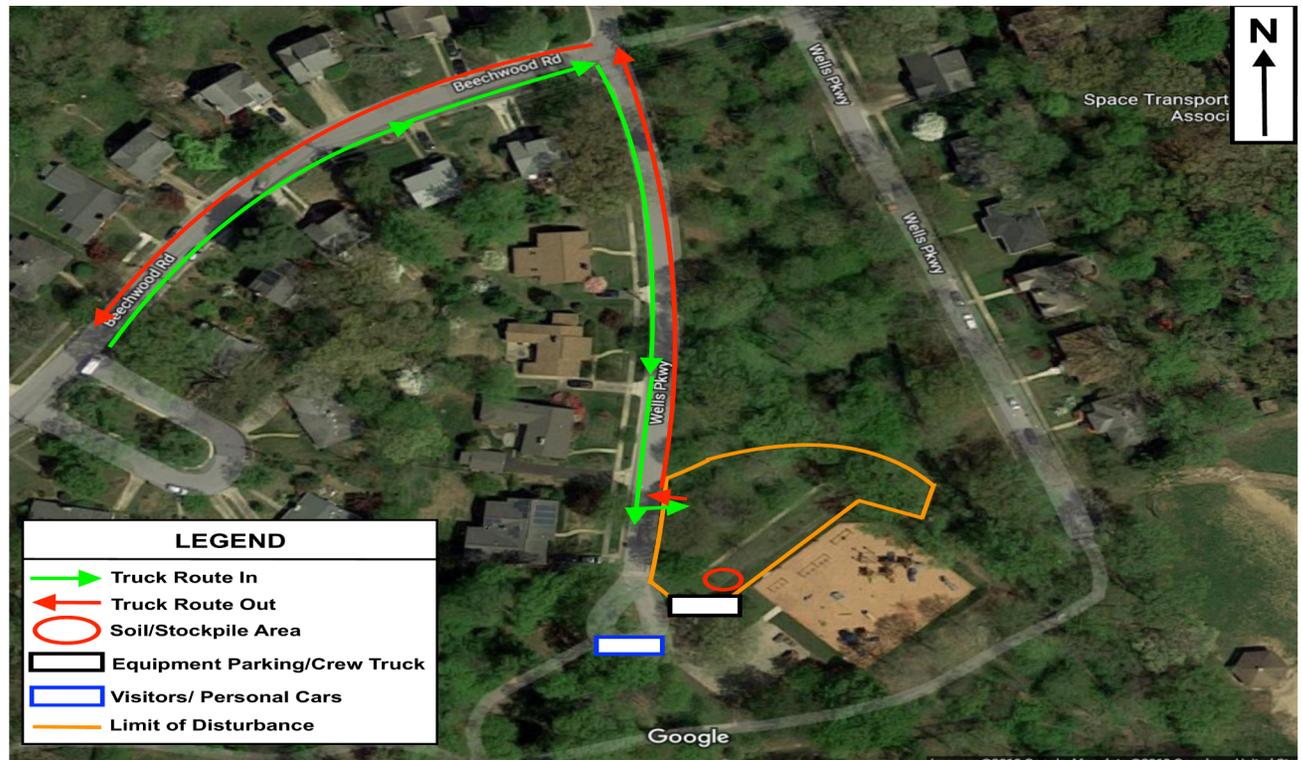
CONSTRUCTION INFORMATION



PRINCE GEORGE'S COUNTY IN ALLIANCE WITH THE CLEAN WATER PARTNERSHIP (CWP) HAS BEEN WORKING ON THE PLANNING AND DESIGN OF A WATER QUALITY IMPROVEMENT PROJECT AT 6600 WELLS PARKWAY. THE CONSTRUCTION FOR THIS PROJECT IS SCHEDULED TO START IN WINTER 2019.

PROJECT DETAILS:

This project is being completed to meet regulatory requirements for treating stormwater within the county. The CWP will employ Best Management Practices (BMPs), installing a Submerged Gravel Wetland. Construction materials such as sand, gravel, excavated dirt, topsoil, sod and pipes will be temporarily stored on site during construction.



PROJECT ADDRESS: 6600 Wells Parkway

CONTRACTOR: SMC

CONSTRUCTION START: February 2019 (weather permitting)

CONSTRUCTION FINISH: June 2019 (weather permitting)

CONSTRUCTION HOURS:

Monday – Friday: 8:00am – 5:00pm

Saturday (subject to town approval): 8:00am – 4:00pm

SITE ACCESS:

Construction crews will access the construction site via Wells Parkway.

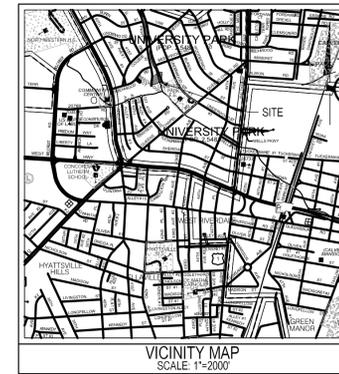
CONSTRUCTION PARKING: Contractors will park personal vehicles along the cul-de-sac on Wells Parkway.

EQUIPMENT ON SITE: During construction there could be up to 5 dump trucks a day carrying materials to and from the work site. The Contractor is committed to keeping the road clean and will clean up behind trucks carrying sediment and other materials. Construction crews will store equipment and materials overnight on site. Please keep children and pets away from these areas for safety.

TREE REMOVAL: Construction crews will remove and trim trees to make room for the BMP device. New trees will be planted at the end of construction to replace those that were removed.

FINAL STORMWATER MANAGEMENT RETROFIT PLAN DOE CLEAN WATER PARTNERSHIP

ONE SUBMERGED GRAVEL WETLAND 6400 WELLS PARKWAY, UNIVERSITY PARK, MD 20782



INDEX OF SHEETS

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GENERAL NOTES

- SITE DATA:**
TAX ID: 2165207
ADDRESS: 6400 WELLS PARKWAY
UNIVERSITY PARK, MD 20782
ACREAGE: 3.23 AC +/-
FLOODPLAIN ACREAGE: 0.20 AC
DISTURBED AREA: 9877 SF
CUT & FILL: 52 CY
MAX. CUT/FILL DEPTH: 2.5 FT
- EXISTING ZONE: O-S
- WSSC GRID: 208NE04
- TAX MAP: 42 GRID: B1
- LOT: 0042, BLOCK: 00B1, PARCEL: 0128
- PG COUNTY STREET MAP PAGE: 5409; GRID J5
- NO CEMETERIES EXIST ON OR CONTIGUOUS TO PROPERTY.
- NO HISTORIC SITES ON OR IN THE VICINITY OF THE PROPERTY.
- COUNTY WATERSHED NAME: ANACOSTIA RIVER; COUNTY WATERSHED #021402050822
- NRI EQUIVALENCY: NRI-155-2017
TCPII #: TCP2-085-99
- ENVIRONMENTAL INFORMATION:**
SITE IS NOT WITHIN CHESAPEAKE BAY CRITICAL AREA
SITE DOES NOT CONTAIN HIGHLY ERODIBLE SOILS
SITE DOES NOT CONTAIN STEEP SLOPES
SITE IS WITHIN WATERSHED WITH TMDL FOR SEDIMENT
SITE IS WITHIN TIER II WATERSHED
NO WETLANDS ARE PRESENT ON SITE
100-YEAR FLOODPLAIN IS PRESENT ON SITE
- SOURCE OF TOPOGRAPHY:**
FIELD RUN BY SOLTESZ, LLC IN 10/2017
AND 2014 PRINCE GEORGE'S COUNTY GIS
- SWM EASEMENT:** L _____ F _____
- DECLARATION OF COVENANTS:** L _____ F _____
- STREAM CLOSURE DATES:** N/A

Prince George's County Maryland
Department of the Environment (DoE)
APPROVED PERMIT SET

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Case Name: 6400 WELLS PARKWAY
Case Number (Permit #): 39032-2018-0
Case Type: CWP WQ
Issuance Date: 8/10/2018
Address: 6400 WELLS PKWY HYATTSVILLE, Maryland 20782
Lot(s) and Block(s) and Parcel(s):

E.I. Hadji D. Fall



SWM DESCRIPTION

THIS PROJECT IS FOR RETROFIT AND REHABILITATION FOR SWM FOR AN EXISTING 0.56 ACRES OF UNTREATED IMPERVIOUS AREA. THE PROJECT WILL PROVIDE WQV FOR THE 1" OF RUNOFF IN A SUBMERGED GRAVEL WETLAND. SEE BMP SUMMARY TABLE FOR MORE INFORMATION.

SWM CONCEPT CERTIFICATION

THIS PLAN HAS BEEN APPROVED FOR STORMWATER MANAGEMENT CONCEPT EFFICIENCY.

NAME: *E.I. Hadji D. Fall* DATE: 03/29/2018

SIGNATURE: *[Signature]*

DEPARTMENT OF PERMITTING, INSPECTIONS AND ENFORCEMENT
PRINCE GEORGE'S COUNTY, MARYLAND
PEER REVIEW APPROVAL STAMP

"I hereby certify that I have successfully completed participation in DPPE's Peer Review Program. I have reviewed these plans in detail and they are in conformance with DPPE's General Specifications and Standards."

APPROVAL DATE: **8/9/2018**
PEER REVIEWER: BEN MOSIER
COMPANY NAME: SOLTESZ
PERMIT NUMBER: 3093-2018

DPPE PERMIT NO. 3093-2018-00

BMP & ESD AS-BUILT CERTIFICATION

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE STORMWATER MANAGEMENT FACILITIES (BOTH BMP AND ESD) SHOWN ON THE PLANS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY PRINCE GEORGE'S COUNTY DEPARTMENT OF PERMITTING, INSPECTION AND ENFORCEMENT.

JASON R. MILLS DATE: _____
MD REG. P.E. NO. 40836

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: _____

DRAINAGE CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN CONFORMS TO THE REQUIREMENTS OF SUBTITLE 32, DIVISION 2 OF THE CODE OF PRINCE GEORGE'S COUNTY WATER RESOURCES PROTECTION AND GRADING CODE, AND THAT I OR MY STAFF HAVE INSPECTED THIS SITE AND THAT DRAINAGE FLOWS FROM UPHILL PROPERTIES ONTO THIS SITE, AND FROM THIS SITE ONTO DOWNHILL PROPERTIES, HAVE BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES.

UTILITY CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, THAT THE EXISTING AND/OR PROPOSED UNDERGROUND UTILITY INFORMATION SHOWN HEREON HAS BEEN CORRECTLY DUPLICATED FROM UTILITY COMPANY RECORDS. FURTHER, THAT THIS PROJECT HAS BEEN CAREFULLY COORDINATED WITH EACH INVOLVED UTILITY COMPANY AND ALL AVAILABLE UNDERGROUND UTILITY INFORMATION RELATIVE TO THIS PLAN HAS BEEN SOLICITED FROM THEM.

JASON R. MILLS DATE: 8/7/2018
MD REG. P.E. NO. 40836

STANDARD STABILIZATION NOTE

- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
- THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
 - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

DECLARATION OF COVENANTS:

L: _____ F: _____

Final Plan BMP SUMMARY TABLE

Revision Date: March, 2018

Project Name: 6400 Wells Parkway - SGW							Case No.:		Total Site Acreage: 3.23 acres														
MDE TRACKING NUMBER	POI	LABEL	NAME	MD NORTH	MD EAST	LAND USE	CONSTRUCTION PURPOSE	DRAINAGE AREA (AC)	TOTAL IMP. (AC)	NEW IMP. AREA (AC)	EXISTING IMP. AREA (AC)	PERCENT IMP.	Rv	TARGET P _i (IN)	TARGET VOL (FT ³)	DESIGN VOL (FT ³) USING ESD PRACTICES	DESIGN VOLUME (CF) USING STRUCTURAL PRACTICES	MAX ESD VOL (ESD max) (CF)	RCN	ON OFF SITE	IMP. AREA CREDIT		
PG16RST104320	A	SGW	Submerged Gravel Wetland	1327780	475194	Park	RETRO	2.42	0.56	0.00	0.56	23.1%	1.00	1.00	2,033	N/A	2,753	N/A	77	On Site	0.560		
Total Imp. Area =								0.56	PROVIDED ESD =										2,753	Total Imp. Area Treated =		0.560 acres	



Engineering Surveying Planning Environmental Sciences
4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.soltesz.com

NO.	DATE	REVISIONS	BY	DATE	
1	JANUARY 2018	CAD STANDARDS VERSION: V8 - 2000			
DESIGNED:	BVL	TECHNICIAN:	BVL	CHECKED:	JRM

MISS UTILITY NOTE

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OWNER/DEVELOPER/APPLICANT

PRINCE GEORGE'S COUNTY GOVERNMENT
DEPARTMENT OF THE ENVIRONMENT
C/O CORVIAS
1801 MCCORMICK DRIVE, SUITE 280
LARGO, MD 20774
PHONE # (301) 291-2253
CONTACT: PETER LITTLETON

MAP	5409	GRID	J5
TAX MAP	42-B1	ZONING CATEGORY	O-S
WSSC 200' SHEET	208NE04		
SITE DATUM			
HORIZONTAL:	NAD83		
VERTICAL:	NGVD1988		

PROFESSIONAL CERTIFICATION

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COVER SHEET

DOE CLEAN WATER PARTNERSHIP
ONE SUBMERGED GRAVEL WETLAND
WELLS PARKWAY TENNIS COURT
6400 WELLS PARKWAY
UNIVERSITY PARK, MD 20782
RIVERDALE (19TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND



GRAPHIC SCALE	1" = 100'
SHEET	1
OF	9
PROJECT NO.	3564-00-06



PROPOSED DRAINAGE AREA SUMMARY TABLE

AREA	STRUCTURE #	INFLOW POINT	AREA (AC)	IMPERVIOUS %	IMPERVIOUS AREA
DA-1	SGW-1	SWALE	2.42	23.1	0.56

DRAINAGE AREA	ACRES (AC)	IMPERVIOUS (AC)	FLOW TYPE	LINE SEGMENT	LENGTH (FT)	TRAVEL TIME (HR)
DA-1	2.42	.56	SHALLOW CONCENTRATED	A-B	100	0.238
			SHALLOW CONCENTRATED	B-C	158	0.014
			SHALLOW CONCENTRATED	C-D	145	0.019
			CHANNEL	D-E	20	0.001
TOTAL					218	0.272

SCALE: 1" = 40'
HORIZ DATUM: NAD83

DRAINAGE AREA MAP LEGEND

	EXISTING	PROPOSED
DRAINAGE DIVIDE	---	DA - 34 0.76 AC
PROPERTY LINE (SITE, ADJOINERS)	---	
SOILS BOUNDARY/SOILS LABEL (SOURCE: USDA SOIL SURVEY OF PRINCE GEORGE'S COUNTY 1987)	AdB2 / C1	
STORMDRAIN (LINE, INLETS, MANHOLE)	EX 15" RCP / SD - 1" / EX 11" / EX 22"	15" RCP / MH 123 / 456
STRUCTURE NUMBERS		
IMPERVIOUS AREA		

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Peer Reviewed By:
BEN MOSIER
Discipline:
Site/Civil
Date:
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MAP 5409	GRID J5
TAX MAP 42-B1	ZONING CATEGORY: O-S
WSSC 200' SHEET 208NE04	
SITE DATUM HORIZONTAL: NAD83	VERTICAL: NAVD1988

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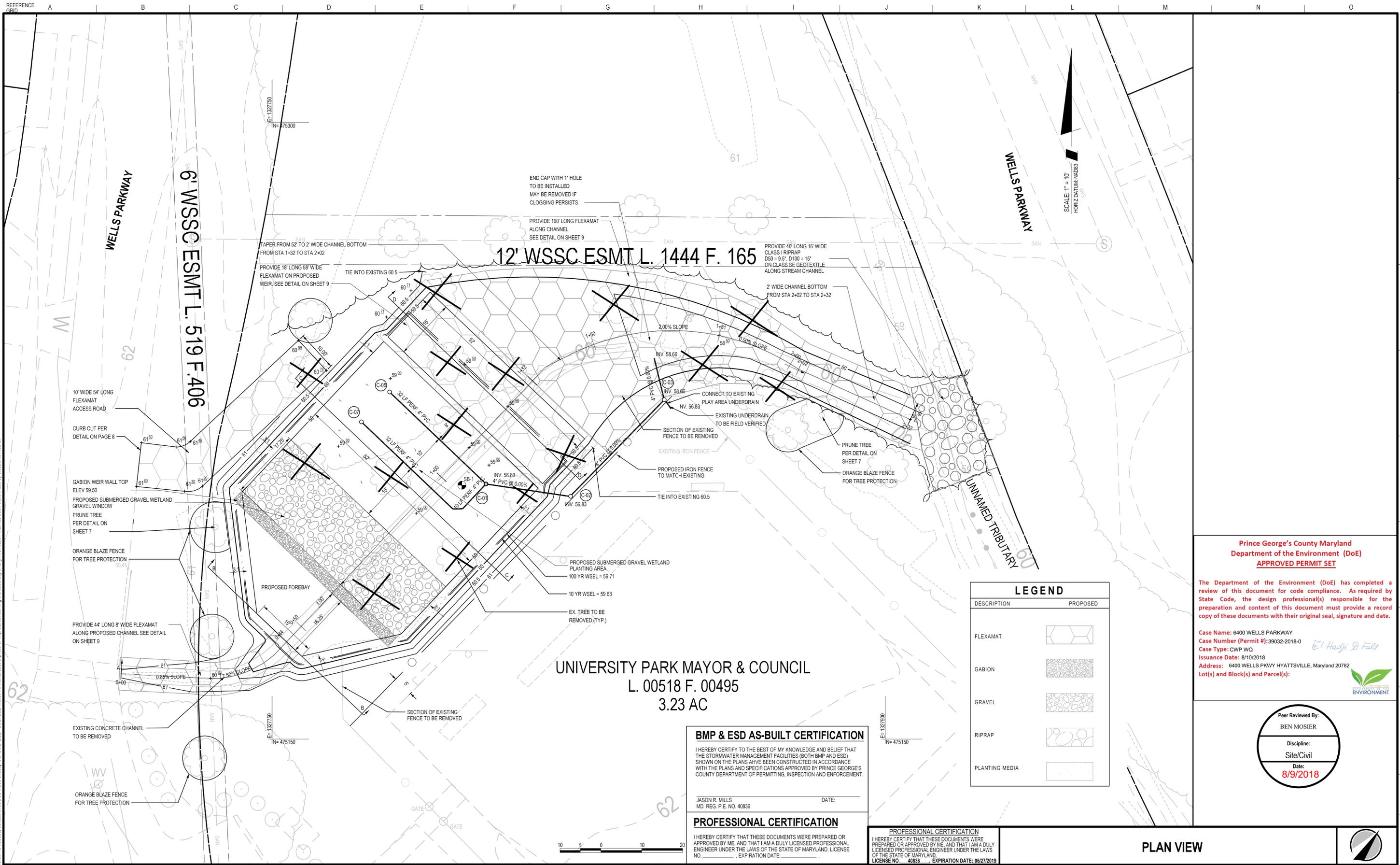
DRAINAGE AREA MAP

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WELLS PARKWAY TENNIS COURT
6400 WELLS PARKWAY
UNIVERSITY PARK, MD 20782**

RIVERDALE (19TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = 40'
SHEET 3 OF 9
PROJECT NO. 3564-00-06

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Discipline:
Site/Civil
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LEGEND	
DESCRIPTION	PROPOSED
FLEXAMAT	
GABION	
GRAVEL	
RIPRAP	
PLANTING MEDIA	

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UNIVERSITY PARK MAYOR & COUNCIL
L. 00518 F. 00495
3.23 AC

10 5' 0 10 20

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PLAN VIEW

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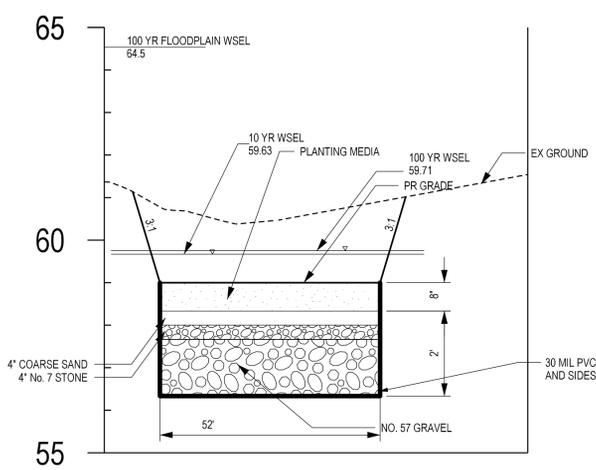
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SHEET **4**
OF **9**
PROJECT NO. 3564-00-06

SOLTESZ, LLC

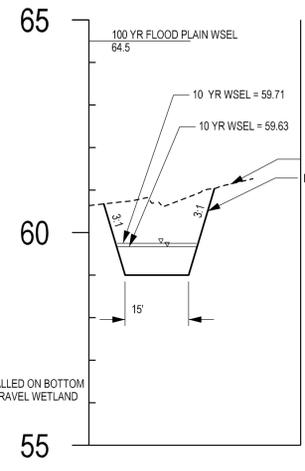
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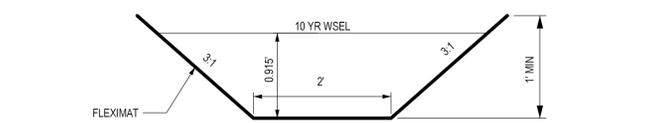
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DESIGNED:	BVL	TECHNICIAN:	BVL
CAD STANDARDS VERSION:	V8 - 2000	CHECKED:	JRM



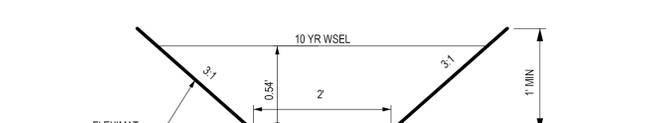
SUBMERGED GRAVEL WETLAND CROSS SECTION SECTION C-C
SCALE = V 2':1", H 20':1"



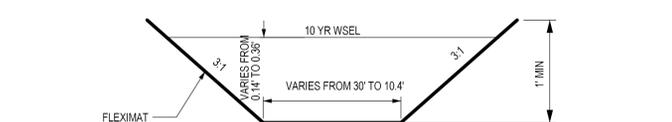
FOREBAY CROSS SECTION SECTION B-B
SCALE = V 2':1", H 20':1"



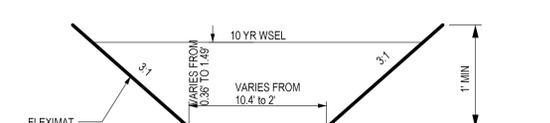
TYPICAL FLEXAMAT INFLOW CHANNEL CROSS SECTION (STA 0+00 TO 0+22) NTS



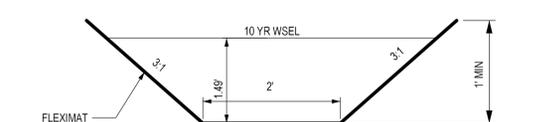
TYPICAL FLEXAMAT INFLOW CHANNEL CROSS SECTION (STA 0+22 TO 0+40) NTS



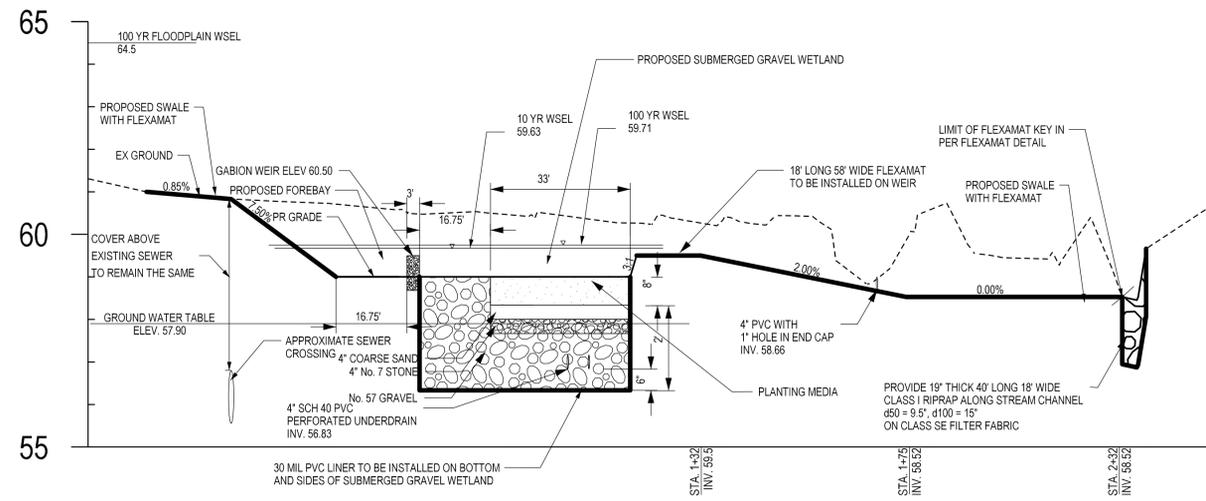
TYPICAL OUTFALL CHANNEL CROSS SECTION (STA. 1+32 TO 1+81) NTS



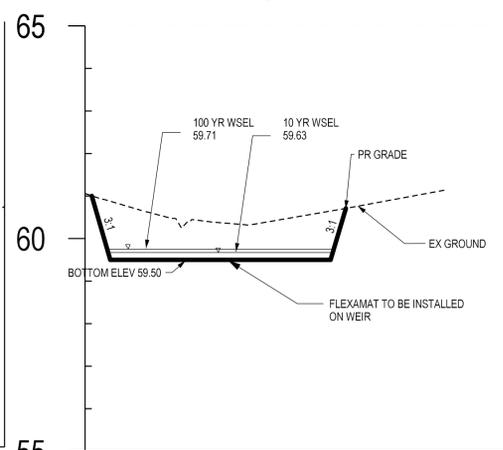
TYPICAL OUTFALL CHANNEL CROSS SECTION (STA. 1+81 TO 2+02) NTS



TYPICAL OUTFALL CHANNEL CROSS SECTION (STA. 2+02 TO 2+32) NTS



SUBMERGED GRAVEL WETLAND PROFILE SECTION A-A
SCALE = V 2':1", H 20':1"



WEIR CROSS SECTION SECTION D-D
SCALE = V 2':1", H 20':1"

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PIPE SUMMARY				
SIZE	TYPE/CLASS	LENGTH	AS-BUILT	BONDED & INSPECTED
4"	PERFORATED PVC	74		DOE
4"	PVC	63		
PUBLIC TOTAL			137	

STORM DRAIN STRUCTURE SCHEDULE											
BONDED & INSPECTED BY	STRUCT. NUMBER	TYPE	STD. DETAIL	WIDTH OR DIA.	INV. (OUT)	AS-BUILT INV. OUT	STATION TOP ELEV.		AS-BUILT TOP ELEV.		COMMENTS
							UP	DOWN	UP	DOWN	
PUBLIC STORM DRAIN STRUCTURE SCHEDULE											
DOE	C-01	CLEANOUT		4"	56.83		59.50				
	C-02	CLEANOUT		4"	56.83		61.49				
	C-03	CLEANOUT		4"	58.66		61.49				
	C-05	CLEANOUT		4"	56.83		59.50				
	C-07	CLEANOUT		4"	56.83		59.50				

PIPE SCHEDULE							
BONDED & INSPECTED	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	DIA. (IN.)	MATERIAL	LENGTH (FT.)	AS-BUILT	COMMENTS
PUBLIC PIPE SCHEDULE							
DOE	C-01	C-02	4	PVC	21		
	C-02	C-03	4	PVC	32		
	C-03	CHANNEL	4	PVC	10		
TOTAL					63		

Prince George's County Maryland
Department of the Environment (DoE)
APPROVED PERMIT SET

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Case Name: 6400 WELLS PARKWAY
Case Number (Permit #): 39032-2018-0
Case Type: CWP WQ
Issuance Date: 8/10/2018
Address: 6400 WELLS PKWY HYATTSVILLE, Maryland 20782
Lot(s) and Block(s) and Parcel(s):

Peer Reviewed By:
BEN MOSIER
Discipline:
Site/Civil
Date:
8/9/2018

SOLTESZ, LLC
Engineering Surveying Planning Environmental Sciences
4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.soltesz.com

REVISIONS			
NO.	DATE	BY	DATE
1	JANUARY 2018	BVL	

MISS UTILITY NOTE
INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHOEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT
PRINCE GEORGE'S COUNTY GOVERNMENT
DEPARTMENT OF THE ENVIRONMENT
C/O CORVIAS
1801 MCCORMICK DRIVE, SUITE 280
LARGO, MD 20774
PHONE # (301) 291-2253
CONTACT: PETER LITTLETON

MAP	TAX MAP	GRID	ZONING CATEGORY
5409 <td>42-B1 <td>J5 <td>O-S </td></td></td>	42-B1 <td>J5 <td>O-S </td></td>	J5 <td>O-S </td>	O-S

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. 40836 EXPIRATION DATE: 08/27/2019

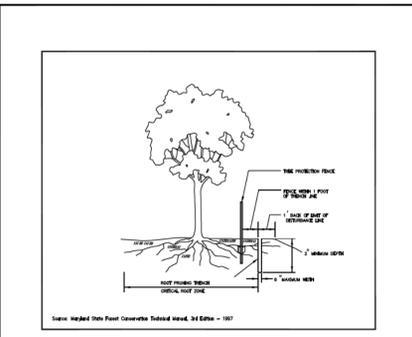
JASON R. MILLS
PROFESSIONAL ENGINEER
8/7/2018

PROFILES

DOE CLEAN WATER PARTNERSHIP
ONE SUBMERGED GRAVEL WETLAND
WELLS PARKWAY TENNIS COURT
6400 WELLS PARKWAY
UNIVERSITY PARK, MD 20782
RIVERDALE (19TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

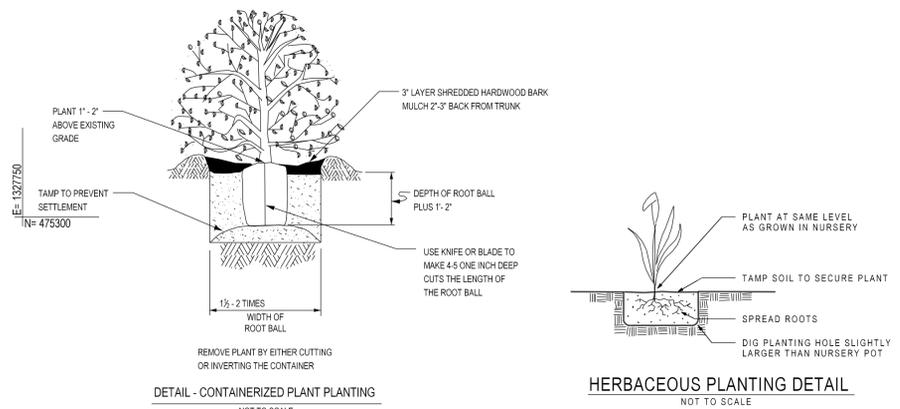
1" = NTS
SHEET 5 OF 9
PROJECT NO. 3564-00-06

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- NOTES:**
1. RETENTION AREAS TO BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 2. RETENTION AREAS SHOULD BE STAKED, FLAGGED AND/OR FENCED PRIOR TO BEGINNING.
 3. EXACT LOCATION OF TREES SHOULD BE IDENTIFIED.
 4. TREES SHOULD BE IMMEDIATELY SKIDDED WITH SKID RIMMS OR OTHER HIGH ORGANIC SOIL.
 5. ROOTS SHOULD BE CLEANLY CUT USING NECESSARY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.

ROOT PRUNING
August 2010 A-4-DET-10



HERBACEOUS PLANTING DETAIL
NOT TO SCALE



WELLS PARKWAY

- LANDSCAPE SPECIFICATIONS**
- A. MATERIALS**
1. Plants shall be nursery grown in accordance with good horticultural practice, and grown under climatic conditions similar to those in the locality of the project. They shall have been root pruned, preferably within the last year.

They shall be sound, healthy and vigorous, well branched and densely foliated when in leaf. They shall be free of disease, pest, eggs or larvae, and shall have a healthy developed root system.

Plants shall not be pruned before delivery. Trees with a damaged or crooked leader or multiple leaders, abrasions on the bark, sunscald, disfiguring knots or fresh cuts over 1/2" will be rejected. 3/4" will be rejected.

No change in quantity, size, kind or quality of plant specified will be permitted without approval of the landscape architect.
 2. Topsoil shall be fertile, friable and typical of the locality; it shall be free of stones, lumps, plants, roots, sticks and shall not be delivered in a frozen or muddy condition.
 3. Planting soil (backfill mix) shall be five-parts topsoil and one-part wet loose peat moss.
 4. Staking materials: Guys wire shall be pliable #12 gauge galvanized twisted two-strand wire. Hose shall be a suitable length of two-ply rubber hose 3/4 inch diameter, stakes shall conform to the detail; 1/2 inch diameter, stakes shall conform to the detail on this sheet.
 5. Wrapping material shall be a standard manufactured tree wrapping paper with crinkled surface and fastened by an approved method.
- B. APPLICABLE SPECIFICATIONS AND STANDARDS**
1. "Standard Plant Names," latest edition American Joint Committee on Horticulture Nomenclature.
 2. "American Standard of Nursery Stock," latest edition, American Association of Nurserymen.
- C. DIGGING AND HANDLING OF PLANT MATERIALS**
1. Immediately before digging, spray all evergreen or deciduous plant material in full leaf with anti-desiccant, applying an adequate film over trunks, branches, twigs and/or foliage.
 2. Dig balled and burlapped (B&B) plants with firm natural balls of earth, of a diameter not less than that recommended by American Standard for Nursery Stock, and of sufficient depth to include the fibrous and feeding roots. Plants moved with a ball will not be accepted if the ball is cracked or broken before or during planting operations.
- D. EXCAVATING OF PLANTING AREA**
1. Stake out on the ground locations for plants and outlines of area to be planted, and obtain approval of the landscape architect before excavation is begun. Landscaping areas to be thoroughly weeded prior to planting operations.
- E. PLANTING OPERATIONS**
1. Set plants at same relationship to finished grade as they bore to the ground from which they were dug. Use planting soil to backfill approximately 2/3 full, water thoroughly before installing remainder of the planting soil to top of pits, eliminating all air pockets.
 2. Set planting plants and brace rigidly in position until the planting soil has been stamped solidly around the ball and roots. Cut ropes or strings from the top of ball after plant has been set. Leave burlap or cloth wrapping intact around balls. Turn under and bury portions of burlap at top of ball.
 3. Protect plants at all times from sun or drying winds. Plants that can not be planted immediately on delivery shall be kept in the shade, well protected with soil, peat moss or other acceptable material and shall be kept well watered. Plants shall not remain unplanted for longer than three days after delivery.
 4. Plants shall not be bound with wire or rope at any time so as to damage the bark or break branches. Plants shall be lifted and handled from the bottom of the ball only.
 5. Mulch all pits and beds with a two inch layer of bark, mulch immediately after planting and work into the top three inches of the planting soil. Form a 3" earth saucer around each plant. Water all plants immediately after planting. Add additional mulch.
- F. STAKING, WRAPPING AND PRUNING**
1. Staking shall be completed immediately after planting. Plants shall stand plumb after staking. Stakes and guy wire shall be removed at the end of the guarantee period and disposed of off-site by the contractor.
 2. Wrap deciduous tree trunks starting at the base of the tree up to the second branch. Remove wrapping at the end of the guarantee period.
 3. Prune plants at the time of planting as directed by the landscape architect to remove 1/5 or 1/3 of the foliage. Remove all dead wood, suckers or broken branches and preserve the natural character of the plant.
- G. GUARANTEE**
1. All plant material shall be guaranteed by the contractor to be in a healthy and vigorous condition at the beginning of the second growing season following acceptance by the landscape architect.
- H. TREE PRESERVATION**
1. Snow fencing shall be erected around all areas where existing vegetation is to be preserved.
 2. Individual trees and groups of trees shall be protected by fencing around a perimeter of their branches using standard 48" high snow fence securely mounted to standard steel posts set not more than 6' apart.
 3. Fencing shall be installed prior to the start of any construction activity.

**Prince George's County Maryland
Department of the Environment (DoE)
APPROVED PERMIT SET**

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Lot(s) and Block(s) and Parcel(s):

E.I. Hadji D. Fall

Peer Reviewed By:
BEN MOSIER
Discipline:
Site/Civil
Date:
8/9/2018

BMP & ESD AS-BUILT CERTIFICATION

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE STORMWATER MANAGEMENT FACILITIES (BOTH BMP AND ESD) SHOWN ON THE PLANS ABOVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY PRINCE GEORGE'S COUNTY DEPARTMENT OF PERMITTING, INSPECTION AND ENFORCEMENT.

JASON R. MILLS DATE: _____
MD. REG. P.E. NO. 40836

PROFESSIONAL CERTIFICATION

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**6400 Wells Parkway - University Park
SWM Plant List - MB01**

Key	Quantity	Botanical Name	Common Name	Height/Spread	Caliper	Root	Spacing	Remarks
Shrubs								
ILGL	53	Ilex glabra	Inkberry	18"-24"		Cont.	4' o.c.	Native
ILVE	78	Ilex verticillata	Winterberry Holly	18"-24"		Cont.	6' o.c.	Native
ITVI	49	Itea virginica	Virginia Sweetspire	18"-24"		Cont.	4' o.c.	Native
MYPE	78	Myrica pensylvanica	Bayberry	18"-24"		Cont.	8' o.c.	Native
Herbaceous Plants and Ornamental Grasses								
ANGE	126	Andropogon gerardii	Big Bluestem			Cont.	2' o.c.	Native
ASTU	102	Asclepias tuberosa	Butterfly Weed			Cont.	2' o.c.	Native
ECPU	102	Echinacea purpurea	Purple Coneflower			Cont.	2' o.c.	Native
IRVE	61	Iris versicolor	Blue Flag Iris			Cont.	2' o.c.	Native
OSCI	22	Osmundia cinnamomea	Cinnamon Fern			Cont.	2' o.c.	Native
OSRE	147	Osmundia regalis	Royal Fern			Cont.	2' o.c.	Native
Canopy Trees								
AR	3	Red Sunset Red Snsel	Acer rubrum 'Red Snsel'	2 1/2"-3" cal		Cont.	4' o.c.	Native
PA	4	Exclamation London Planetree	Platanus x acerifolia 'Exclamation'	2 1/2"-3" cal		Cont.	6' o.c.	Native
QP	4	Willow Oak	Quercus phellos	2 1/2"-3" cal		Cont.	4' o.c.	Native

UNIVERSITY PARK MAYOR & COUNCIL
L. 00518 F. 00495
3.23 AC

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PLAN VIEW

**DOE CLEAN WATER PARTNERSHIP
ONE SUBMERGED GRAVEL WETLAND
WELLS PARKWAY TENNIS COURT
6400 WELLS PARKWAY
UNIVERSITY PARK, MD 20782**

RIVERDALE (19TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

SHEET **7**
OF **9**

PROJECT NO.
3564-00-06

SOLTESZ, LLC

Engineering
Surveying
Planning
Environmental Sciences

4300 Forbes Boulevard, Suite 230
Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
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NO.	REVISIONS	BY	DATE
1	REVISED LANDSCAPING TO MATCH LATEST POND CONFIGURATION	BOG	5/8/18

DATE: JANUARY 2018 CAD STANDARDS VERSION: V8 - 2000
DESIGNED: BVL TECHNICIAN: BVL CHECKED: JRM

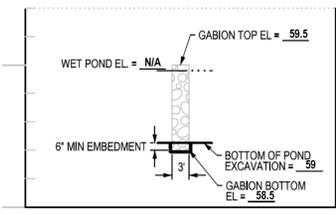
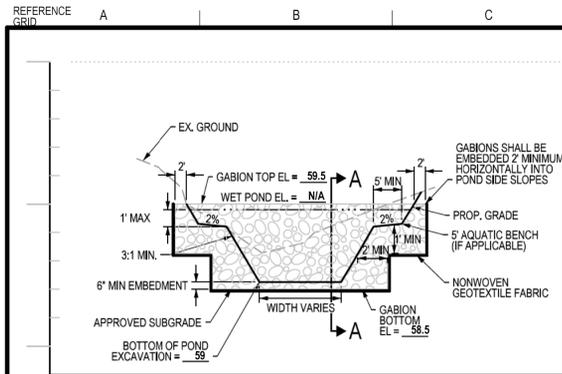
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DEPARTMENT OF THE ENVIRONMENT
C/O CORVIAS
1801 MCCORMICK DRIVE, SUITE 280
LARGO, MD 20774
PHONE # (301) 291-2253
CONTACT: PETER LITTLETON

MAP 5409 GRID J5

TAX MAP 42-B1	ZONING CATEGORY: O-S
WSSC 200' SHEET 208NE04	
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NGVD1988	

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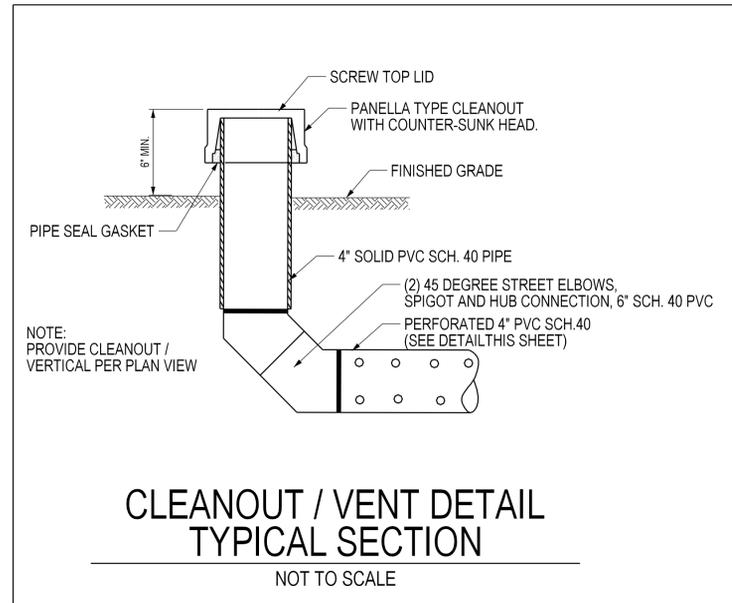
SECTION A-A
NOT TO SCALE

NOTES: THE NOTES ARE ADOPTED FROM MSHA SPECIFICATIONS 313 AND 906.

- USE NONWOVEN GEOTEXTILE FABRIC TYPE III SE AS SPECIFIED IN SECTION 921.08 OF THE MARYLAND STATE HIGHWAY ADMINISTRATION 2008 STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION MATERIALS (MSHA 2008 STD), AND PROTECT FROM PUNCTURING, CUTTING, OR TEARING. REPAIR ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE BY PLACING ANOTHER PIECE OF NONWOVEN GEOTEXTILE FABRIC OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE NONWOVEN GEOTEXTILE FABRIC. PROVIDE A MINIMUM OF ONE-FOOT OVERLAP FOR ALL REPAIRS AND FOR JOINING TWO PIECES OF NONWOVEN GEOTEXTILE FABRIC TOGETHER.
- ALL WIRE INCLUDING TIE AND CONNECTING WIRE SHALL HAVE A TENSILE STRENGTH OF AT LEAST 60,000 PSI WHEN TESTED PER A 370. ALL WIRE SIZES AND MESH SPACING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
STAINLESS STEEL INTERLOCKING FASTENERS MEETING A 313 MAY BE SUBSTITUTED FOR WIRE TIES WHEN SUBJECTED TO DIRECTIONAL TENSION ALONG ITS AXIS. THE FASTENER SHALL REMAIN IN A CLOSED AND LOCKED CONDITION FOR A MINIMUM FORCE OF 900 LBS.
GALVANIZED COATING FOR WIRE FABRIC, TIES, AND CONNECTING WIRE SHALL NOT BE AT LEAST 0.8 OZ/LF WHEN TESTED PER A 300.
PVC COATING FOR WIRE FABRIC, TIES, AND CONNECTING WIRES SHALL EXHIBIT NO WEIGHT LOSS WHEN TESTED PER MSMT 508. COLOR SHALL MEET FEDERAL STANDARD 595, GRAY COLOR NO. 26440 OR GREEN COLOR NO. 24533, AND MATCH THROUGHOUT THE PROJECT.
- EXCAVATE TO THE SPECIFIED LINES AND GRADES. ENSURE THAT THE SUBGRADE IS SMOOTH, FIRM, AND FREE FROM PROTRUDING OBJECTS OR VOIDS THAT WOULD AFFECT THE PROPER PLACEMENT OF THE WIRE BASKETS OR DAMAGE THE NONWOVEN GEOTEXTILE FABRIC. FOR EXCAVATED MATERIAL, REFER TO MSHA 402.03.01.
- PLACE NONWOVEN GEOTEXTILE FABRIC ON THE APPROVED SUBGRADE. OVERLAP ADJACENT STRIPS AT LEAST 2 FT. REPLACE OR REPAIR GEOTEXTILE DAMAGED DURING PLACEMENT OF THE WIRE BASKETS.
- BEGIN PLACEMENT WITH THE CUTOFF WALLS. SET THE EMPTY WIRE BASKET UNITS ON THE NONWOVEN GEOTEXTILE FABRIC AND BIND THE VERTICAL ENDS TOGETHER WITH WIRE TIES OR INTERLOCKING FASTENERS SPACED TO PERMIT STRETCHING OF THE UNITS TO REMOVE KINKS. USE STRETCHING METHODS THAT DO NOT DAMAGE THE BASKETS. USE STAKES, PINS, OR OTHER APPROVED METHODS TO ENSURE PROPER ALIGNMENT.
- CAREFULLY FILL THE BASKET UNITS WITH 4 TO 7 INCH STONE PLACED BY HAND OR MACHINE TO ENSURE GOOD ALIGNMENT WITH A MINIMUM OF VOIDS BETWEEN STONES. AVOID BULGING OF THE MESH. DO NOT DROP THE STONE FROM A HEIGHT GREATER THAN 36 INCHES. PLACE THE STONE TO PROVIDE A MINIMUM OF TWO COURSES.
PLACE THE TOP LAYER OF 4 TO 7 INCH STONE TO A UNIFORM SURFACE. AVOID ANY BULGING OF THE LID MESH. AFTER A BASKET UNIT IS FILLED, BEND THE LID OVER UNTIL IT MEETS THE ENDS OF THE UNIT. SECURE THE LID TO THE SIDES AND ENDS WITH WIRE TIES OR INTERLOCKING FASTENERS. WHEN A COMPLETE BASKET UNIT CANNOT BE INSTALLED BECAUSE OF SPACE LIMITATIONS, CUT THE BASKET UNIT TO FIT AS DIRECTED.
- BACKFILL ANY EXCAVATION VOIDS EXISTING ALONG THE EDGES OF THE COMPLETED GABIONS AND COMPACT IN AN ACCEPTABLE MANNER.
- BLEND GABIONS INTO EXISTING GROUND.

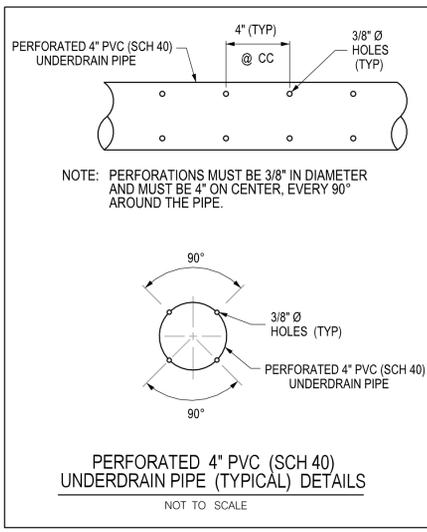
TYPICAL GABION WALL SECTION (MAX. 2.5' HEIGHT)

NOT TO SCALE



CLEANOUT / VENT DETAIL TYPICAL SECTION

NOT TO SCALE



PERFORATED 4" PVC (SCH 40) UNDERDRAIN PIPE (TYPICAL) DETAILS

NOT TO SCALE

PVC LINER MATERIAL

THE 30 MIL. PVC LINER SHALL CONFORM TO THE FOLLOWING MINIMUM PHYSICAL PROPERTIES:

PROPERTY	TEST METHOD	REQUIREMENT
THICKNESS	D 1593	7/- .5%
SPECIFIC GRAVITY (MIN.)	D 792	1.20
100% MODULUS (PSI, MIN.)	D 882	100
(LB. FORCE/IN. WIDTH, MIN.)		30
TENSILE (PSI, MIN.)	D882	2300
(LB. FORCE/IN. WIDTH, MIN.)		69
ELONGATION AT BREAK (% MIN)	D 882	325
GRAVES TEAR (LB./IN. MIN.)	D 1004	325
(LB. FORCE/IN. WIDTH, MIN.)		8
RESISTANCE TO SOIL BURIAL (% CHANGE MAX.)	D 3083 (NSF MODIFIED)	5
(A) BREAKING FACTOR		20
(B) ELONGATION AT BREAK		20
(C) MODULUS AT 100% ELONGATION		20
IMPACT COLD CRACK (°F)	D 1790	-20
DIMENSIONAL STABILITY (% CHANGE MAX.)	D 120	5
(WATER EXTRACTION (% MAX.))	(212/F/15 MIN.)	-0.25
VOLATILE LOSS (% MAX.)	D 1203	0.70
HYDROSTATIC RESISTANCE (PSI, MIN.)	D 751	82

PVC LINER CERTIFICATION

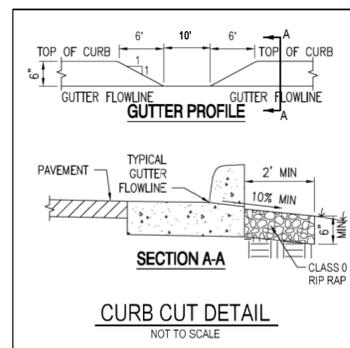
- THE CONTRACTOR SHALL CERTIFY THAT THE PVC LINER MATERIAL CONFORMS TO THE PHYSICAL PROPERTIES. THE PVC LINER CERTIFICATION SHALL ALSO INCLUDE:
 - POLYMER AND COMPOSITION OF THE PVC LINER, INCLUDING ADDITIVE COMPOSITION OF ANY COATING MATERIALS.
 - MANUFACTURER'S QUALITY CONTROL PLAN INCLUDING PROPERTIES, TEST METHODS, FREQUENCY OF TESTING, TOLERANCES, AND METHOD OF REPOSITION FOR CUT-UP SPRING ATION MATERIAL.
 - LABORATORY TEST RESULTS DOCUMENTING THE PHYSICAL PROPERTIES.

STORAGE AND HANDLING

- THE PVC LINER SHALL REMAIN STORED IN ITS ORIGINAL CONTAINER IN A DRY AREA AND PROTECTED FROM PUNCTURE, DIRT, GREASE, WATER, MUD, MECHANICAL ABRASIONS, EXCESSIVE HEAT, EXTREME COLD OR OTHER DAMAGE. ON-SITE HANDLING OF THE PVC LINER IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ANY DAMAGE OF THE PVC LINER SHALL BE DOCUMENTED. IF THE DAMAGED PVC LINER CANNOT BE REPAIRED TO COMPLY WITH THE SPECIFICATION IT SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE ADMINISTRATION.

CONSTRUCTION

- AREA SUBGRADE PREPARATION
 - SURFACES TO BE LINED SHALL BE SMOOTH AND FREE OF ALL ROCKS, STONES, STICKS, SHARP OBJECTS, OR DEBRIS OF ANY KIND. THE SURFACE SHALL PROVIDE A FIRM, UN-YIELDING FOUNDATION FOR THE LINER WITH NO SUDDEN SHARP OR ABRUPT CHANGES OR BREAK IN GRADE. NO STANDING WATER, MUD, SNOW OR FROZEN SUBGRADE THAT HAS BECOME SOFTED BY WATER OR OVERLY DRIED UNTIL IT HAS BEEN PROPERLY RECONDITIONED AND RECOMPACTED. SPECIAL CARE SHALL BE TAKEN TO MAINTAIN THE PREPARED SOIL SURFACES. THE SOIL SURFACE WILL BE OBSERVED DAILY BY THE ENGINEER TO EVALUATE THE SURFACE CONDITION. ANY DAMAGE TO THE SURFACE CAUSED BY WEATHER CONDITIONS SHALL BE REPAIRED BY THE CONTRACTOR.
- ANCHOR TRENCH
 - THE ANCHOR TRENCH SHALL BE EXCAVATED TO THE LINE, GRADE, AND WIDTH SHOWN ON THE CONSTRUCTION DRAWINGS, PRIOR TO LINER PLACEMENT.
 - IF THE ANCHOR TRENCH IS LOCATED IN CLAY SUSCEPTIBLE TO DESICCATION; NO MORE THAN THE AMOUNT OF TRENCH REQUIRED FOR THE LINER TO BE ANCHORED IN ONE DAY SHALL BE EXCAVATED TO MINIMIZE DESICCATION OF THE ANCHOR TRENCH SOILS.
 - SLIGHTLY ROUNDED CORNERS SHALL BE PROVIDED IN THE TRENCH WHERE THE LINER ADJOINS THE TRENCH SO AS TO AVOID SHARP BENDS IN THE LINER. NO LOOSE SOIL OR ROCKS SHALL BE ALLOWED TO UNDERLIE THE LINER IN THE ANCHOR TRENCH. LEADING EDGES OF THE ANCHOR TRENCH SHALL BE SMOOTH AND EVEN.
- PLACEMENT OF LINER
 - THE LINER SHALL BE PLACED DOWN GRADIENT (UPSTREAM TO DOWNSTREAM) TO FACILITATE OVER LAPPING AND PREVENT RUN OFF FROM ENTERING UNDER THE PLACED LINER.
 - THE METHOD USED TO PLACE THE LINER PANELS SHALL MINIMIZE WRINKLES (ESPECIALLY DIFFERENTIAL WRINKLES BETWEEN ADJACENT PANELS). MINIMUM WRINKLES SHALL BE ALLOWED TO INSURE THE LINER IS INSTALLED IN A RELAXED CONDITION. EXCESSIVE WRINKLES WHICH OVERLAP THEMSELVES SHALL NOT BE ALLOWED. STRETCHING OF THE LINER IS NOT ALLOWED.
 - ALL PANELS MAY BE REPOSITIONED AFTER DEPLOYMENT TO CONFORM TO THE OVERLAP REQUIREMENTS, HOWEVER, DEPLOYMENT AND REPOSITIONING MEASURES MAY ELIMINATE DRAGGING OR ELONGATING THE PVC LINER PANELS.
 - THE SEAM OVERLAP SHALL BE A MINIMUM OF 3 FT. AND A MAXIMUM OF 4 FT.
 - ADEQUATE BALLAST (E.G. COVER SOIL, OR SIMILAR MEASURES THAT WILL NOT DAMAGE THE LINER) SHALL BE PLACED TO PREVENT UPLIFT BY WIND. IN



CURB CUT DETAIL

NOT TO SCALE

- CASE OF HIGH WINDS, CONTINUOUS LOADING IS RECOMMENDED ALONG EDGES OF PANELS TO MINIMIZE RISK OF WIND FLOW UNDER THE PANELS.
- ONLY EQUIPMENT NECESSARY FOR INSTALLATION AND TESTING OF THE LINER SHALL BE PERMITTED TO COME IN CONTACT WITH THE LINER. THIS EQUIPMENT SHALL BE RUBBER TIED WITH A GROUND PRESSURE NOT EXCEEDING 5 PSI, AND A TOTAL WEIGHT NOT EXCEEDING 750 LB.
- WEATHER CONDITIONS
- PVC LINER DEPLOYMENT SHALL PROCEED WHEN AMBIENT TEMPERATURE AND MATERIAL SHEET TEMPERATURE IS BETWEEN 60 AND 105 °F. SHEET TEMPERATURE SHALL BE MEASURED ON THE LINER SURFACE BY AN INFRARED THERMOMETER OR SURFACE CONTACT THERMOMETER.
 - LINER PLACEMENT SHALL NOT BE DONE DURING ANY PRECIPITATION, IN THE PRESENCE OF EXCESSIVE MOISTURE, (E.G. SNOW, FOG, RAIN, DEW, MUD) OR IN THE PRESENCE OF EXCESSIVE WINDS, AS DETERMINED BY THE ENGINEER.
 - IF LINER PLACEMENT IS REQUIRED AT AMBIENT TEMPERATURES BELOW 60° F, A MEANS OF STORING THE LINE IN AN AREA THAT MAINTAINS THE LINER TEMPERATURE ABOVE 60° F SHALL BE PROVIDED. THIS LINER TEMPERATURE SHALL BE MAINTAINED UNTIL THE TIME OF DEPLOYMENT.

UNPACKING THE PANELS

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, BEFORE THE LINER IS UNPACKED. DAMAGED OR SUSPECT AREAS SHALL BE MARKED FOR TESTING AND/OR REPAIR. LINER THAT IS DAMAGED DURING DEPLOYMENT (I.E. THAT CANNOT BE ADEQUATELY REPAIRED) SHALL BE REPLACED AT NO ADDITIONAL COST TO THE ADMINISTRATION.

BACKFILLING OF THE ANCHOR TRENCH

- THE ANCHOR TRENCH SHALL BE BACKFILLED AND COMPACTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. TRENCH BACKFILL MATERIAL SHALL BE PLACED IN 8 IN. THICK LOOSE LIFTS AND COMPACTED BY WHEEL ROLLING WITH LIGHT, RUBBER-TIRED OR OTHER LIGHT COMPACTION EQUIPMENT.
- CARE SHALL BE TAKEN WHEN BACKFILLING THE TRENCHES TO PREVENT ANY DAMAGE TO THE PVC LINER. AT NO TIME SHALL CONSTRUCTION EQUIPMENT COME IN DIRECT CONTACT WITH THE LINER. IF DAMAGE OCCURS, IT SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE ADMINISTRATION.

BACKFILLING OF THE PVC LINER

- THE LINER SHALL BE COVERED WITH A 2 FT. LAYER OF SOIL. THE FIRST 1.8 FT. SHALL CONFORM TO COMMON BORROW SPECIFICATIONS AND THE TOP 4 IN. SHALL BE A LAYER OF FURNISHED TOPSOIL. THE BACKFILL SHALL BE TAMPED IN PLACE. PERMANENT TYPE B SOIL STABILIZATION MATTING SHALL BE PLACED OVER THE TOPSOIL.
- AT NO TIME SHALL CONSTRUCTION EQUIPMENT COME INTO DIRECT CONTACT WITH THE LINER OR TRAVERSE THE BACKFILLED TRENCH. WHEN DAMAGE OCCURS, IT SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE ADMINISTRATION. COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.

MEASUREMENT AND PAYMENT

- MEASUREMENT AND PAYMENT FOR THE PVC DITCH LINER WILL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD ACCEPTED IN PLACE. THE PAYMENT WILL BE FULL COMPENSATION FOR ALL EXCAVATION, PVC LINER, FURNISHED TOPSOIL, BACKFILL, AND FOR ALL OVERLAP SHALL NOT BE MEASURED AND PAID FOR AS SEPARATE ITEMS. ALL PVC LINER OVERLAP SHALL BE INCIDENTAL TO THE COST OF THE PVC LINER INSTALLATION.
- EXCAVATION WILL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CLASS 2 EXCAVATION FOR INCIDENTAL CONSTRUCTION.

Prince George's County Maryland
Department of the Environment (DoE)
APPROVED PERMIT SET

The Department of the Environment (DoE) has completed a review of this document for code compliance. As required by State Code, the design professional(s) responsible for the preparation and content of this document must provide a record copy of these documents with their original seal, signature and date.

Case Name: 6400 WELLS PARKWAY
Case Number (Permit #): 39032-2018-0
Case Type: CWP WQ
Issuance Date: 8/10/2018
Address: 6400 WELLS PKWY HYATTSVILLE, Maryland 20782
Lot(s) and Block(s) and Parcel(s):

E.T. Hadji D. Fale

BMP & ESD AS-BUILT CERTIFICATION

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE STORMWATER MANAGEMENT FACILITIES (BOTH BMP AND ESD) SHOWN ON THE PLANS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY PRINCE GEORGE'S COUNTY DEPARTMENT OF PERMITTING, INSPECTION AND ENFORCEMENT.

JASON R. MILLS
MD. REG. P.E. NO. 40836

DATE: _____

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: _____.

Peer Reviewed By:
BEN MOSIER

Discipline:
Site/Civil

Date:
8/9/2018

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Jason R. Mills
PROFESSIONAL ENGINEER
8/7/2018

DETAILS

DOE CLEAN WATER PARTNERSHIP
ONE SUBMERGED GRAVEL WETLAND
WELLS PARKWAY TENNIS COURT
6400 WELLS PARKWAY
UNIVERSITY PARK, MD 20782

RIVERDALE (19TH) ELECTION DISTRICT, PRINCE GEORGE'S COUNTY, MARYLAND

1" = NTS
SHEET **8**
OF **9**
PROJECT NO.
3564-00-06

SOLTESZ, LLC

Engineering
Surveying
Planning
Environmental Sciences

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Lanham, MD 20706
P. 301.794.7555 F. 301.794.7656
www.solteszco.com

NO.	REVISIONS	BY	DATE

DATE: JANUARY 2018 CAD STANDARDS VERSION: V8 - 2000
DESIGNED: BVL TECHNICIAN: BVL CHECKED: JRM

MISS UTILITY NOTE

INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHOEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER/DEVELOPER/APPLICANT

PRINCE GEORGE'S COUNTY GOVERNMENT
DEPARTMENT OF THE ENVIRONMENT
C/O CORVIAS
1801 MCCORMICK DRIVE, SUITE 280
LARGO, MD 20774
PHONE # (301) 291-2253
CONTACT: PETER LITTLETON

MAP 5409	GRID J5
TAX MAP 42-B1	ZONING CATEGORY: O-S
WSSC 200' SHEET 208NE04	
SITE DATUM HORIZONTAL: NAD83 VERTICAL: NGVD1988	

Data Sheet

Flexamat® is a tied concrete block mat used to control erosion in swales, slopes, ditches, channels, shorelines and any area where soil sediment may be lost due to water runoff.

The matting consists of pyramidal concrete blocks that are interconnected utilizing a high tensile strength polypropylene geogrid. The completed mat yields a high strength, ultra-flexible hard armor system of Erosion Control. Flexamat's superior Percentage of Open Area (POA) affords an ideal zone for vegetation growth while remaining a permanent armor against long-term erosional forces.

General Composition of Materials

Blocks	5000 PSI, Wet-cast Portland Cement
Interlocking Biaxial Geogrid	Fornit 30/30 - Polypropylene Geogrid with 2,055 lb/ft biaxial strength
Underlayment Options	Standard Polypropylene netting Curlex® II ECB Plus Polypropylene netting Recyclax® TRM-V Curlex® II ECB Fabric 10 oz NW fabric *More options available upon request

Manufacturing Values

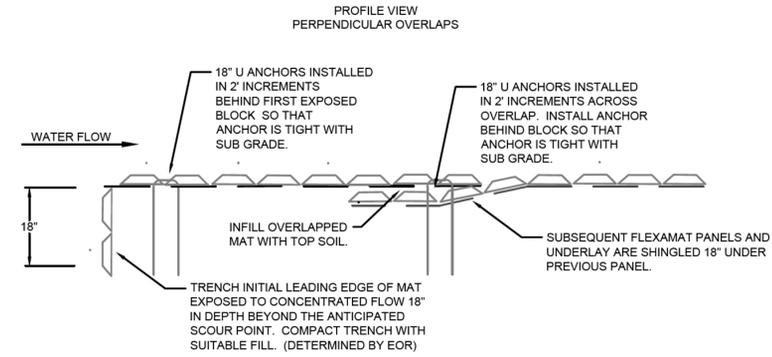
Flexamat Properties	Values
Roll Width	4', 5.5', 8', 10', 12', 16'
Roll Length	30', 40', 50' / custom
Material Weight	10 lbs./sf
Block Size	6.5" x 6.5" x 2.25"
Percentage Open Area (POA)	30% min.

Performance

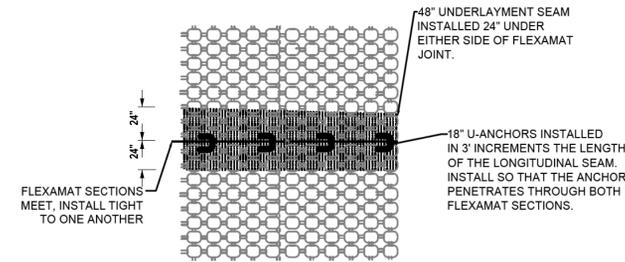
Test	Tested Value	Bed Slope	Soil Classification	Limiting Value
ASTM 6460	Shear Stress	30%	Sandy Loam (USDA)	24 PSF
ASTM 6460	Velocity	20%	Loam (USDA)	30 ft./sec

CONSTRUCTION NOTES:

- THE RIVER BANK SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS.
- SITE SPECIFIC SEED MIXES, INCLUDING NATIVE GRASSES, SHOULD BE INSTALLED ON THE PREPARED SUB GRADE PRIOR TO INSTALLING THE FLEXAMAT EROSION CONTROL MATERIALS.
- THE TOP EDGE OF THE FLEXAMAT SHOULD BE A MINIMUM OF 3" ABOVE THE EXPECTED HIGH WATER ELEVATION OF THE RIVER AND THE BOTTOM EDGE SHOULD BE A MINIMUM OF 4" BELOW THE EXPECTED LOW WATER ELEVATION. FOR APPLICATIONS WHERE WATER DEPTH IS BELOW 4", MAT SHALL EXTEND 2' PAST THE TOE.
- FLEXAMAT IS AVAILABLE IN WIDTHS OF 4', 5.5', 8', 10', 12', AND 16'.
 - FOR WIDTHS WIDER THAN 16", INSTALL MATS ADJACENT TO ONE ANOTHER. BRIDGE LONGITUDINAL SEAM WITH 48" UNDERLAYMENT. 24" OF UNDERLAYMENT SHALL BE UNDER EACH MAT AND DIRECTLY AGAINST THE SUBGRADE.
 - FLIP FLEXAMAT SECTIONS BACK INTO PLACE SO THAT THEY FIT TIGHTLY.
 - SECURE FLEXAMAT TO SEAM BY INSTALLING U-ANCHORS IN 3' INCREMENTS THE LENGTH OF THE LONGITUDINAL SEAM. U-ANCHORS CONSIST OF #3 REBAR BENT INTO A U WITH 18" LEGS.
- THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO FLOW SHALL BE EMBEDDED 24" VERTICALLY BEYOND THE ANTICIPATED SCOUR POINT. THE ANCHOR TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).
- FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25" OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
- INSTALL 18" "U" ANCHORS IN 2' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. "U" ANCHORS CONSIST OF #3 REBAR "U" ANCHOR WITH 18" LEGS.
- AT THE END OF THE ARMORED STREAM BANK, EMBED THE MAT 24" PAST THE ANTICIPATED SCOUR POINT IN A TERMINATION TRENCH. THE ANCHOR TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER (AS SPECIFIED BY EOR).



LONGITUDINAL SEAM PROFILE



FLEXAMAT DETAIL NTS

Prince George's County Maryland
Department of the Environment (DoE)
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www.soltesz.com

NO.	REVISIONS	BY	DATE
1	JANUARY 2018	BVL	

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