

MICROBIORETENTION AS-BUILT DATA															
		MD STATE PLAN COORDINATES(NAD 83)		TOP ELEVATION	BOTTOM ELEVATION	OVERFLOW ELEVATION	TOP SURFACE AREA	BOTTOM SURFACE AREA	INV EL.OF MEDIA	INV EL.OF SAND LAYER	INV EL OF 6" PERF PVC	INV ELEVATION OF MULCH	TYPE OF INLET PIPE	DEPTH OF GRAVEL MEDIA (FT.)	DEPTH OF FILTER MEDIA (FT.)
		NORTH	EAST												
MB-1	DESIGN AS-BUILT	1427065.580	591819.966	46.5	42.5	47	147.8	124.2	44.25	43.75	43	46.25	12" PVC	1.25	2
MB-2	DESIGN AS-BUILT	1427070.503	591775.642	45.5	41.5	46	83.86	59	43.25	42.75	42	45.25	12" PVC	1.25	2
MB-3	DESIGN AS-BUILT	1427074.564	591745.135	44.5	40.5	45	133.58	93.1	42.25	41.75	41	44.25	12" PVC	1.25	2
MB-4	DESIGN AS-BUILT	1427077.044	591717.829	43.5	39.5	44	133.58	93.1	41.25	40.75	40	43.25	12" PVC	1.25	2
MB-5	DESIGN AS-BUILT	1427078.774	591682.425	42.5	38.5	43	133.58	93.1	40.25	39.75	39	42.25	12" PVC	1.25	2
MB-6	DESIGN AS-BUILT	1427081.281	591649.047	42	38	42.5	166.7	122.5	39.75	39.25	38.2	41.25	12" PVC	1.25	2

STORMWATER MANAGEMENT SEQUENCE OF CONSTRUCTION

- OBTAIN PROPER STORMWATER MANAGEMENT PERMIT.
- SUBMIT A WRITTEN NOTIFICATION TO: THE DEPARTMENT OF PUBLIC WORKS, OFFICE OF COMPLIANCE AND LABORATORIES: 3001 DRUID PARK DRIVE, ROOM 228, BALTIMORE, MD 21215, PHONE NUMBER, 410-396-0732, FAX 410-523-9047, DPW.ESCINSPECTIONS@BALTIMORECITY.GOV, AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION STATING:
 - A REQUEST FOR A PRECONSTRUCTION MEETING,
 - WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION,
 - WHEN CONTRACTOR INTENDS TO INSTALL STORMWATER MANAGEMENT FACILITIES,
 - SOURCE OF BORROW MATERIAL,
 - LOCATION OF DISPOSAL AREA OF SITE MATERIAL,
 - CONTRACTOR'S TENTATIVE CLOSING DATE.
- NOTIFY EOR ENGINEER PRIOR TO THE INSTALLATION OF ANY STORMWATER MANAGEMENT FACILITIES SUCH AS GREEN ROOF, STORM FILTER VAULT, STORMFILTER CATCH BASINS AT LEAST 72 HOURS PRIOR TO INSTALLATION.
- NOTIFY MISS UTILITY AT LEAST 5 DAYS PRIOR TO DOING ANY CONSTRUCTION AT 888-257-7777 TO LOCATE ALL EXISTING UTILITIES.
- INSTALL PERIMETER SILT FENCE, AND INLET PROTECTION FOR STORMWATER MANAGEMENT FACILITIES PER PLAN.
- WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, BEGIN EXCAVATION OF EXISTING GROUND FOR THE INSTALLATIONS OF PEAK FLOW DIVERSION STORM FILTER, AND CATCH BASIN STORM FILTERS.
- INSTALL PROPOSED STORMWATER MANAGEMENT FACILITIES SUCH AS STORM FILTER VAULT, GREEN ROOF, AND CATCH BASIN STORM FILTERS PER PLAN.
- KEEP THE STORMWATER MANAGEMENT FACILITIES OFFLINE UNTIL CONTRIBUTING DRAINAGE AREA FULLY STABILIZED. THE STORM FILTER CARTRIDGES SHOULD NOT BE INSTALLED UNTIL THE SITE IS PERMANENTLY STABILIZED.
- NOTIFY EOR FOR STORMWATER MANAGEMENT FACILITIES AS-BUILT INSPECTIONS AS SOON AS CONSTRUCTION OF THE STORMWATER FACILITIES COMPLETED.

SWM CERTIFICATIONS

OWNER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL PROPOSED WORK SHOWN IN THESE CONSTRUCTION DRAWING(S) AND APPROVED SEDIMENT CONTROL DRAWING(S) WILL BE ACCOMPLISHED PURSUANT TO THESE PLANS. I/WE ALSO UNDERSTAND THAT IT IS MY/OUR RESPONSIBILITY TO HAVE THE CONSTRUCTION SUPERVISED AND CERTIFIED INCLUDING THE SUBMITTAL OF "AS-BUILT" PLANS WITHIN THIRTY (30) DAYS OF COMPLETION, BY A REGISTERED PROFESSIONAL ENGINEER.

Samuel Kebrab *Alie* 10/4/16
 PRINT NAME SIGNATURE DATE
 210 E LOMBARD ST
 BALTIMORE, MD, 21202
 ADDRESS TELEPHONE NUMBER 571-436-1569

ENGINEERS CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED BY ME OR UNDER MY SUPERVISION AND MEETS THE MINIMUM STANDARDS OF BALTIMORE CITY DEPARTMENT OF PUBLIC WORKS REQUIREMENTS AND SPECIFICATIONS.

MARIO ASSEFA *Alie* 10/4/16
 PRINT NAME SIGNATURE DATE
 1705 CHESTERMILL RD
 SILVER SPRING, MD
 ADDRESS TELEPHONE NUMBER 240-271-9759

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

PRINT NAME SIGNATURE DATE
 ADDRESS TELEPHONE NUMBER

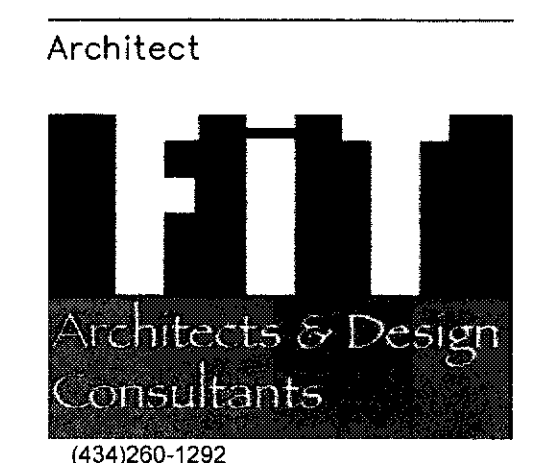
MAINTENANCE AND LIABILITY

MAINTENANCE OF THE STORMWATER MANAGEMENT FACILITY AND APPURTENANT DRAINAGE STRUCTURES SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE PROPERTY OWNER SHALL ALSO BE FULLY LIABLE FOR ALL DAMAGE OR INJURIES THAT MAY BE SUSTAINED BY ANY PERSON OR PROPERTY AS A RESULT OF ANY FAILURE OR MALFUNCTION OF THE STORMWATER MANAGEMENT FACILITY AND APPURTENANCES.

Samuel Kebrab *Alie* 10/4/16
 PRINT NAME SIGNATURE DATE
 210 E LOMBARD ST
 BALTIMORE, MD, 21202
 ADDRESS TELEPHONE NUMBER 571-436-1569

ESD # 7121

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. 21718, Expiration Date: 2017-09-16



Civil / Structural
M.A Design Group LLC
 Consulting Engineers
 1705 Chester Mill Road
 Silver Spring, MD 20906

MEP
SiTa Engineering,
 1334 9th Street,
 NW Suite 206
 Washington DC, 20001

Owner / Client
Herena USA,
 LLC
 210 E. Lexington Street
 Baltimore, Maryland 21202

Herena USA
 E. Lombard Street
 1622-1634 Lombard Street
 922 S.Bethel Street
 Baltimore, MD 21212

REV	DESCRIPTION	DATE
4	SWM-ES	05/20/2017
3	SWM-ES	09/29/2016
2	SWM-ES	08/15/2016
1	BID-SET	02/5/2016

REVISION HISTORY



Date: 02/5/2016
 Project # 1501.01

STORMWATER
 MANAGEMENT NOTES
 AND CERTIFICATES

C-2.31