	SHEET INDEX
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ENVIRONMENTAL CONCEPT PLAN
3	STORMWATER MANAGEMENT DETAILS
4	SCHEMATIC GRADING, SEDIMENT & EROSION CONTROL PLAN
5	STORMWATER DRAINAGE AREA MAP

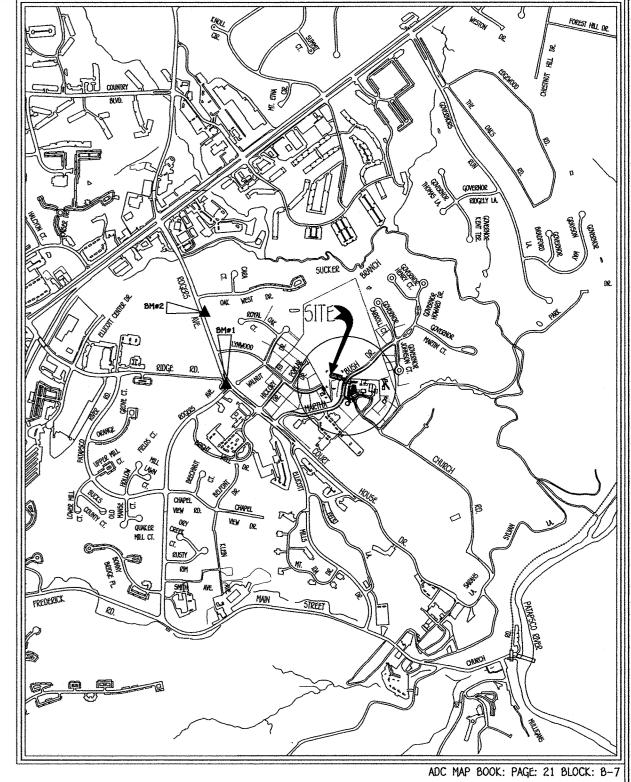
ENVIRONMENTAL CONCEPT PLAN

CAPITAL PROJECT No. C-0363

LINWOOD CENTER PARKING LOT

ZONED: POR

TAX MAP No. 25 GRID No. 01 PARCEL No. 264



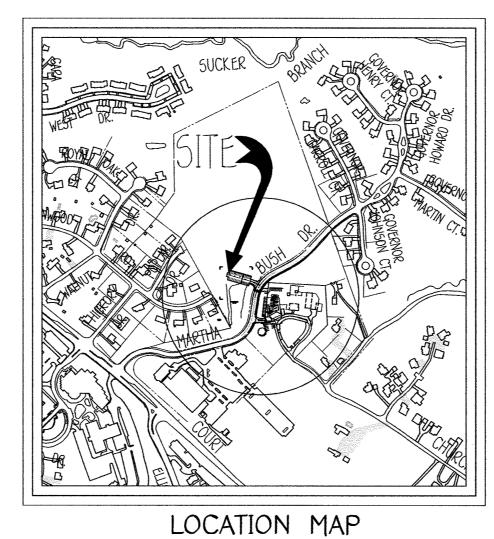
VICINITY MAP

SWM NARRATIVE:

THE PROPOSED SWM FOR THIS PROJECT WILL CONSIST OF A MICRO BIORETENTION FACILITY (M-6). UTILIZING THIS FACILITY WILL PROVIDE THE REQUIRED PE AND ESDV VOLUMES AND RUNOFF AMOUNTS TO MEET THE ENVIRONMENTAL SITE DESIGN TO THE MAXIMUM EXTENT POSSIBLE (ESD TO THE MEP) TO REFLECT A WOODED CONDITION FOR THIS SITE. THE SWM REPORT FOR THIS PROJECT CONTAINS A SUMMARY TABLE TO INDICATE THE VOLUME PROVIDED TO THIS FACILITY.

DESIGN NARRATIVE:

THE NATURAL AREAS OF THIS PROJECT ARE BEING PRESERVED BY AREAS THAT WILL REMAIN UNDEVELOPED. IN ADDITION, THERE ARE NOT ANY PERENNIAL STREAMS, WETLANDS, FLOODPLAIN AND STEEP SLOPES LOCATED ON THE UNDEVELOPED PORTIONS OF THIS LAND. THESE AREAS WILL REMAIN UNDISTURBED AS A FEE-IN-LIEU IS PROPOSED TO COMPLY WITH THE FOREST CONSERVATION OBLIGATION. THE ERODIBLE SOILS HAVE BEEN IDENTIFIED IN THE SOILS CHART AND IN THE SITE ANALYSIS. THE TOTAL AREA OF THE PROJECT IS 0.65 AC. THE LIMITS OF DISTURBANCE AREA IS 0.31 AC. THE MAJORITY OF THIS SITE WILL REMAIN UNDEVELOPED AND PROVIDE 0.34 ACRES OF GREEN SPACE. THE PROPOSED IMPERVIOUS AREA INCLUDE THE PARKING LOT LAYOUT.



- PROPERTY ZONED POR PER 10/6/13 COMPREHENSIVE ZONING PLAN.
- A. TOTAL TRACT AREA = 26.2300 Ac+ B. AREA OF PROPOSED ROAD R/W = $0.00 \text{ Ac} \pm$ C. AREA OF PROPOSED BUILDABLE LOTS = 0.00 Ac±

- B. BUILDABLE PRESERVATION PARCELS = 0 C. NON-BUILDABLE PRESERVATION PARCELS = 0
- SOILS INFORMATION TAKEN FROM (NRCS) HOWARD COUNTY SOIL SURVEY. SOILS MAP NUMBER 16. FOREST STAND & WETLANDS DELINEATION REPORT DATED MAY 14, 2019 WAS PREPARED BY ECO-SCIENCE PROFESSIONAL, INC.
- THERE ARE STEEP SLOPES OF 25% OR GREATER ON SITE OF 0.04 ACRES WITHIN LOD. NO CEMETERIES EXIST ON SITE BY VISUAL OBSERVATION OR LISTED IN AVAILABLE HOWARD COUNTY CEMETERY INVENTORY MAP.
- THERE ARE NO HISTORIC HOUSE STRUCTURES ON-SITE.
- 10. A TRAFFIC STUDY IS NOT NEEDED FOR THIS PROJECT. 11. A PRE-SUBMISSION COMMUNITY MEETING WAS HELD FOR THIS PROJECT ON FEBRUARY 23, 2019 AT GLENWOOD LIBRARY IN COOKSVILLE
- 12. THERE ARE NO 100-YEAR FLOODPLAIN DELINEATIONS, WETLANDS OR STREAM BUFFERS ON THIS PLAN. 13. THE FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL FOR THIS SUBDIMISION WILL BE FULFILLED BY A PROPOSED FEE-IN-LIEU OF 0.20 ACRES.
- 14. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- 15. THE EXISTING TOPOGRAPHY INFORMATION SHOWN IS BASED ON HOWARD COUNTY AERIAL CONTOURS AND SUPPLEMENTED WITH A FIELD RUN TOPOGRAPHIC
- 16. BOUNDARY INFORMATION IS BASED ON A SURVEY PERFORMED ON OR ABOUT FEBRUARY 1, 2019 BY FISHER, COLLINS & CARTER, INC. 17. COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NOS: 25A1(BM#1) & 25A2(BM#2) CONTROL STATION NO. 25A1 N 586,557 ELEV. = 396.349 E 1.366.847
- CONTROL STATION NO. 25A2 N 587,503 ELEV. = 348.098 £ 1.366,556 18. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT

THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

- 19. STORM WATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009. WE ARE PROVIDING STORM WATER MANAGEMENT BY THE USE OF 1 - MICRO BIORETENTION FACILITY (M-6) TO PROVIDE AN AREA OF TREATMENT FOR THE PARKING AREA. THE MICRO RETENTION FACILITY WILL PROVIDE FOR THE ESDY VOLUME REQUIRED FOR THIS PROJECT. 20. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- 21. APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN AND/OR REDLINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIMISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE SUBDIMISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN STAGES AND/OR REDLINE REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER
- 22. AN ALTERNATIVE COMPLIANCE IS BEING REQUESTED FOR THIS PROJECT TO ALLOW FOR THE REMOVAL OF AN EXISTING SPECIMEN TREE. THE TREE IS LOCATED IN THE PROPOSED PAVING AREA AND WILL NEED TO BE REMOVED. THE TREE IS IN GOOD CONDITION WITH VINES GROWING ON IT. THE TYPE IS A TULIP POPLAR AND IS 34" IN DIAMETER.

SITE ANALYSIS DATA CHART

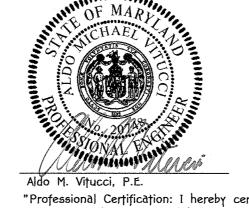
- A. TOTAL AREA OF PARCEL No. 264 = 26.23 dc.±. (ENTIRE PARCEL) PARKING LOT AREA = 0.31 dc.±. (NEW PARKING AREA) LIMIT OF DEVELOPABLE AREA = 0.65 AC.± (LOD) (PARKING AREA)
- LIMIT OF DISTURBED AREA = 28.314 Sa. Ft. or 0.65 Act. (PARKING AREA) PRESENT ZONING DESIGNATION = POR (PER 10/06/13 COMPREHENSIVE ZONING PLAN). (ENTIRE PARCEL)
- PROPOSED USE: PUBLIC PARKING LOT (PARKING AREA) OPEN SPACE ON SITE: N/A (PARKING AREA)
- RECREATIONAL AREA PROVIDED: N/A (PARKING AREA) BUILDING COVERAGE OF SITE: N/A (PARKING AREA)
- PREVIOUS HOWARD COUNTY FILES: SDP 78-103 HOWARD COUNTY DETENTION CENTER TOTAL AREA OF FLOODPLAIN: 0.00 Ac. (PARKING AREA)
- 15% -24.99% = 0.0.9 Ac. LOCATED WITHIN L.O.D. (PARKING AREA) L. NET TRACT AREA = 26.10 Ac* (ENTIRE PARCEL)
- (TOTAL SITE AREA FLOODPLAIN STEEP SLOPES AREA)
- M. TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 Act (NOT IN LOO)
 N. TOTAL AREA OF STREAMS (INCLUDING BUFFER) = 0.00 Act (ENTIRE PARCEL) TOTAL AREA OF FOREST WITHIN L.O.D. = 0.39 Ac. + (PARKING AREA)
- TOTAL GREEN OPEN AREA WITHIN L.O.D. = 0.33 Ac. + (PARKING AREA) TOTAL IMPERVIOUS AREA WITHIN L.O.D. = 0.31 Ac. + (PARKING AREA) AREA OF ERODIBLE SOILS = 0.00 Ac. + (WITHIN AREA OF DEVELOPMENT) (ENTIRE PARCEL)

2ND ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



OWNER & DEVELOPER: HOWARD COUNTY MARYLAND DEPARTMENT OF PUBLIC WORKS C/O MR. JIM IRVIN 3430 COURT HOUSE DRIVE ELLICOTT CITY, MARYLAND 21043

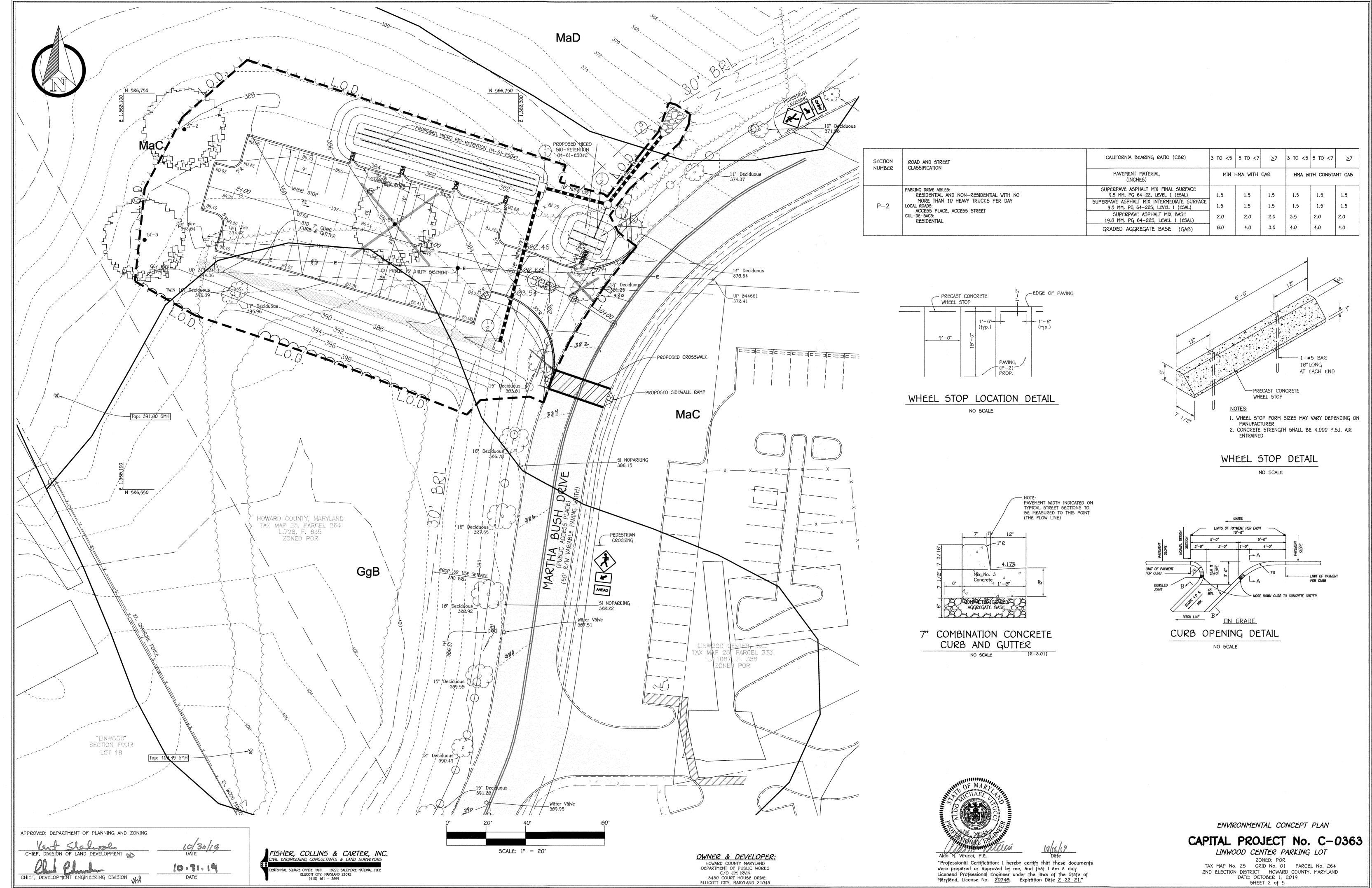


"Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly Licensed Professional Engineer under the laws of the State of Maryland, License No. 20748, Expiration Date 2-22-21."

CAPITAL PROJECT No. C-0363 LINWOOD CENTER PARKING LOT

TAX MAP No. 25 GRID No. 01 PARCEL No. 264 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND DATE: OCTOBER 1, 2019

APPROVED: DEPARTMENT OF PLANNING AND ZONING



ECP-19-057

B.4.C Specifications for Micro-Bioretention, Rain Gardens Landscape Infiltration & Infiltration Berr

Rain Gardens, Landscape Infiltration & Infiltration Berms

1. Material Specifications

The allowable materials to be used in these practices are detailed in Table B.4.1.

The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the micro-bioretention practice that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of Bermuda grass, Quackgrass, Johnson grass, or other noxious weeds as specified under COMAR 15.08.01.05.

The planting soil shall be tested and shall meet the following criteria:

2. Filtering Media or Planting Soil

Soil Component - Loamy Sand or Sandy Loam (USDA Soil Textural Classification)

Organic Content – Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost (40%).

Clay Content - Media shall have a clay content of less than 5%.

pH Range Should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH.

There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textural analysis is required from the site stockpiled topsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.

3. Compaction

It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoes to remove original soil. If practices are excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.

When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

4. Plant Material

12 months) for acceptance.

Recommended plant material for micro-bioretention practices can be found in Appendix A, Section A.2.3.

5. Plant Installation

Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3" Shredded or chipped hardwood mulch is the only accepted mulch. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8 th of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation.

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch.
Grass and legume plugs shall be planted following the non—grass ground cover planting specifications.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill urea fertilizer at a rate of 2 pounds per 1000 square feet.

6. Underdrains

Underdrains should meet the following criteria:

Pipe— Should be?#o &diameter, slotted or perforated rigid plastic pipe (ASTMF 758, Type PS 28, or AASHTO—M—278) in a gravel layer. The preferred material is "slotted, 4 rigid pipe (e.g., PVC or HDPE).

Perforations — If perforated pipe is used, perforations should be 3/8" diameter localted 6 center with a minimum of four holes per row. Pipe shall be wrapped with a 1/4" (No. 4 or 4×4) galvanized hardware cloth.

Gravel —The gravel layer (No. 57 stone preferred) shall be at least 3" thick above and below the underdrain.

The main collector pipe shall be at a minimum 0.5% slope.

A rigid, non-perforated observation well must be provided (one per every 1,000 square feet) to provide a clean-out port and monitor performance of the filter.

A 4 layer of pea gravel (1/4" to 3/8" stone) shall be located between the filter media and underdrain to prevent migration of fines into the underdrain. This layer may be considered part of the filter bed when bed thickness exceeds 24".

The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean—out pipes must be provided (one minimum per every 1000 square feet of surface area).

7. Miscellaneous

7. Miscellaneous

These practices may not be constructed until all contributing drainage area has been stabilized

OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS (M-6)

1. The owner shall maintain the plant material, mulch layer and soil layer annually. maintenance of mulch and soil is limited to correcting areas of erosion or wash out. Any mulch replacement shall be done in the spring. Plant material shall be checked for disease and insect infestation and maintenance will address dead material and pruning. Acceptable replacement plant material is limited to the following: 2000 Maryland stormwater design manual volume II, table A.4.1 and 2.

2. The owner shall perform a plant in the spring and in the fall each year. during the inspection, the owner shall remove

3. The owner shall inspect the mulch each spring. The mulch shall be replaced every two to three years. The previous mulch layer shall be removed before the new layer is applied.

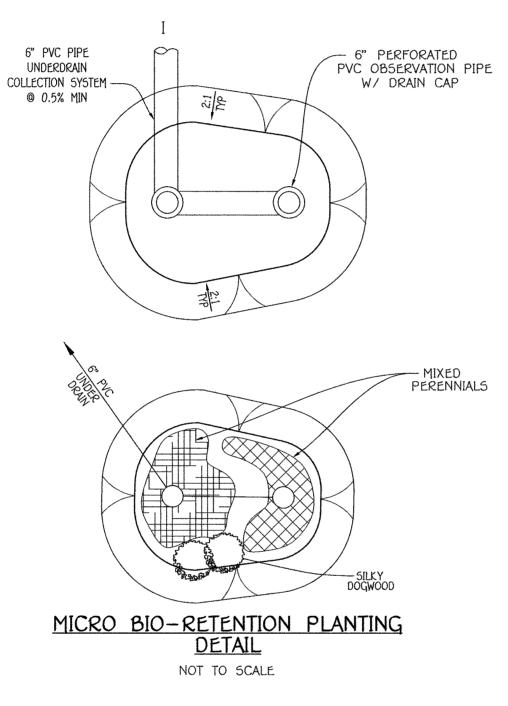
dead and diseased vegetation considered beyond treatment, replace dead plant material with acceptable replacement plant

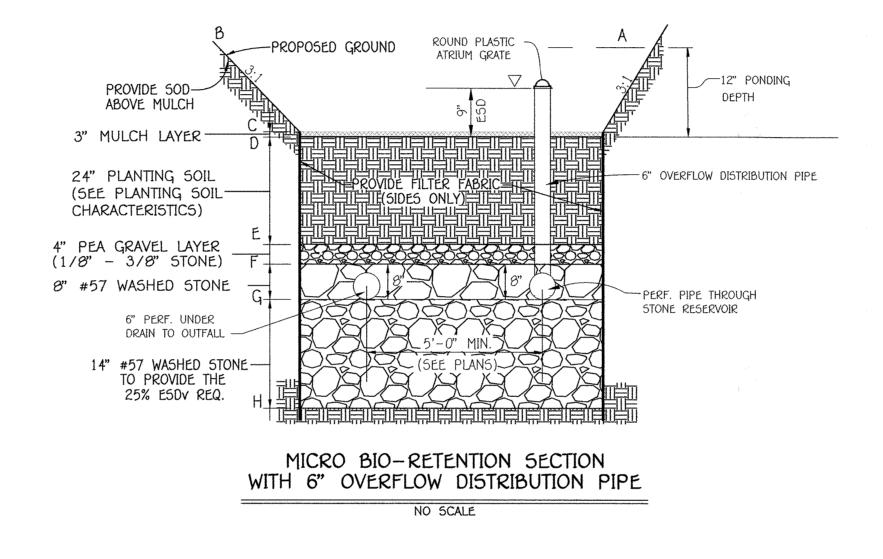
material, Treat diseased trees and shrubs and replace all deficient stakes and wires.

4. The owner shall correct soil erosion on an as needed basis, with a minimum of once per month and after each heavy storm.

	MICRO-BIORETENTIONS										
MICRO-BIORETENTION FILTER	A	В	С	D	É	F	G	Н	I		
#1	383.00										
#2	363.00	363.00	362.00	361.75	359.75	359.42	358.75	357.58	355.15		

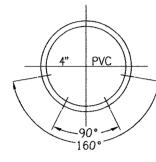
MICRO-BIORETENTION PLANT MATERIAL											
MICRO-BIO 1 QUANTITY	MICRO-BIO 2 QUANTITY	NAME	MAXIMUM 5PACING (FT.)								
810	168	MIXED PERENNIALS	1.5 TO 3.0 FT.								
1	1	SILKY DOGWOOD	PLANT AWAY FROM INFLOW LOCATION								





NOTES:

- 1. UNDERDRAIN PIPE SHALL BE 4" DIAMETER, SLOTTED OR PERFORATED RIGID PLASTIC PIPE (ASTMF 750, TYPE PS 20 OR AASHTO-M- 270) IN A GRAVEL LAYER. THE PREFERRED MATERIAL IS SLOTTED 4" RIGID PIPE (e.g., PVC OR HOPE)
- 2. PERFORATIONS SHALL BE 3/8" DIAMETER LOCATED 6" ON CENTER WITH A MINIMUM OF FOUR HOLES PER ROW. PIPE SHALL BE WRAPPED WITH A 1/4" (No. 4 OR 4 x 4) GALVANIZED HARDWARE CLOTH.
- 3. GRAVEL LAYER SHALL BE (No. 57 STONE PREFERRED) AT LEAST 3" THICK ABOVE AND BELOW THE UNDERDRAIN.
- 4 THE MAIN COLLECTOR PIPE SHALL BE AT A MINIMUM 0.5% SLOPE.
- 5. A RIGID, NON PERFORATED OBERSERVATION WELL MUST BE PROVIDED (ONE PER EVERY 1,000 SQ.FT.) TO PROVIDE A CLEANOUT PORT AND MONITOR PERFORMANCE OF THE FILTER.
- 6. A 4" LAYER OF PEA GRAVEL (1/8" TO 3/8" STONE) SHALL BE LOCATED BETWEEN THE PLANTING MEDIA AND UNDERDRAIN TO PREVENT MIGRATION OF FINES INTO THE UNDERDRAIN. THIS LAYER MAY BE CONSIDERED PART OF THE FILTER BED WHEN BED THICKNESS EXCEEDS 24".



PIPE SIZE: 4"
HOLE SIZE: 3/8"
CENTER TO CENTER: 3"
ROWS OF HOLES: 2 @ 90°
2 @ 160° (+/-3°)

5CH40 PVC PERFORATED UNDERDRAIN PIPE DETAIL FOR HORIZONTAL DRAIN PIPE NO 5CALE



Aldo M. Vitucci, P.E.

"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. 20740, Expiration Date 2-22-21."

ENVIRONMENTAL CONCEPT PLAN
SWM DETAILS
CAPITAL PROJECT No. C-0363

ZONED: POR
TAX MAP No. 25 GRID No. 01 PARCEL No. 264
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE: OCTOBER 1, 2019
SHEET 3 of 5

LINWOOD CENTER PARKING LOT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

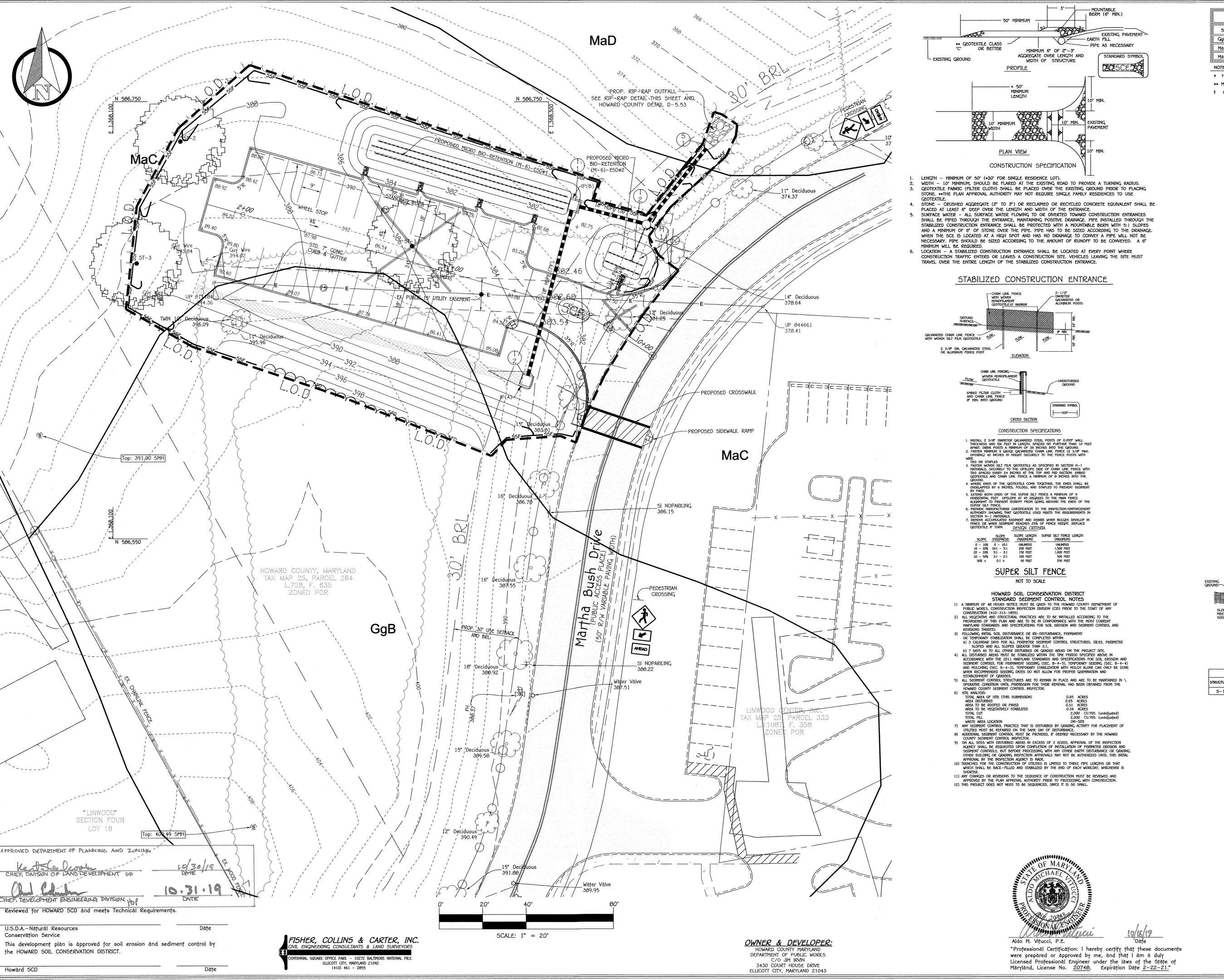
CHIEF, DIVISION OF LAND DEVELOPMENT DIVISION TO CHIEF, DEVELOPMENT ENGINEERING DIVISION

10/30/19 DATE 10.31.19



OWNER & DEVELOPER:

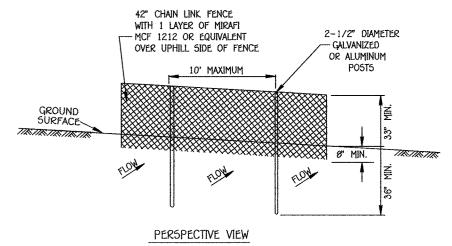
HOWARD COUNTY MARYLAND
DEPARTMENT OF PUBLIC WORKS
C/O JIM IRVIN
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043

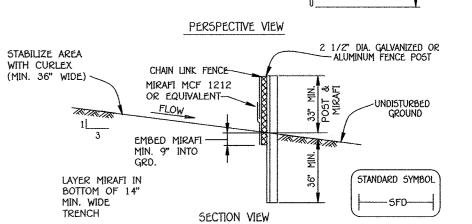


50IL5 LEGEND CLASS KW GaB Glenela loam, 3 to 8 percent slopes в 0.20 B 0.24 MaC Manor loam, 8 to 15 percent slopes В 0.24 MaD Manor loam, 15 to 25 percent slopes NOTES:

* Hydric soils and/or contains hydric inclusions

** May contain hydric inclusions t Generally only within 100-year floodplain areas





CONSTRUCTION SPECIFICATIONS 1. FENCING SHALL BE 42" HIGH CHAIN CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD DETAILS 690.01 AND 690.02 FOR CHAIN U FENCING. THE SPECIFICATIONS FOR A 6'-0" FENCE SHALL BE USED, SUBSTITUTING 42" FABRIC AND 8' POSTS. POSTS SHALL BE PLACED WITHOUT

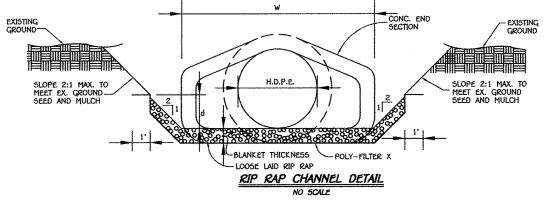
- CONCRETE EMBEDMENT. 2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.
- 3. FILTER CLOTH TO BE FASTENED SECURELY TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. 4. FILTER CLOTH SHALL BE IMBEDDED A MINIMUM OF 9" INTO THE
- 5. WHEN TWO SECTIONS OF DIVERSION CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. 6. MAINTENANCE SHALL BE PERFORMED AS NEEDED.

rapric Properties	vajue	rest Helmon
Grab Tensile Strength (lbs.)	90	A5TM D1682
Elongation at Failure (%)	50	ASTM D1682
Mullen Burst Strength (PSI)	190	A5TM 03786
Puncture Strength (lbs.)	40	ASTM 0751
Slurry Flow Rate (gal/min/sf)	0.3	Virginia DOT VTM-51
Equivalent Opening Size	40-80	US Std Sieve CW-02215
Utraviolet Radiation Stability (%	90	A5TM G-26
Design	Criteria	
	ope Length maximum)	Silt Fence Length (maximum)

0 - 10% 0 - 10:1 Unlimited Unlimited 10 - 20% 10:1 - 5:1 20 - 33% 5:1 - 3:1 300 feet 1,000 feet 33 - 50% 3:1 - 2:1 200 feet 500 feet 50% + 2:1 + 100 feet

SUPER FENCE DIVERSION

NOT TO SCALE



RIP-RAP CHANNEL DESIGN DATA														
STRUCTURE	area	WETTED PERIMETER	R	R 2/3	5	5 1/2	W	d	N	V (f.p.s.)	Q (c.f.s.)	217-20 D 50	P SIZE D _{MAX}	BLANKET THICKNESS
5-1	2.19	7.47	0.2932	0.4395	0.005	0.0707	6'	0.33	0.05	1.14	2.50	9.5"	15"	19"

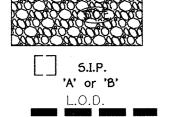
CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS

- The subgrade for the fifter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed 2. respectively in the riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage

 3. other than an occasional shall hole shall be repaired by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
- Stone for the riprap or gabion outlets may be placed by equipment. Both shall

 4. each be constructed to the full course thickness in one operation and in such a
 manner as to avoid displacement of underlying materials. The stone for riprap or
 gabion outlets shall be delivered and placed in a manner that will insure that it
 is reasonably homogenous with the smaller stones and spalls filling the voids
 between the larger stones. Riprap shall be placed in a manner to prevent
 damage to the filter blanket or filter cloth. Hand placement will be required to
 the extent percent of the course of the percentent will be required to the extent necessary to prevent damage to the permanent works.

SEDIMENT CONTROL LEGEND



ENTRANCE STANDARD INLET PROTECTION

CONSTRUCTION

LIMIT OF DISTURBANCE EROSION CONTROL MATTING

SEDIMENT & EROSION CONTROL PLAN CAPITAL PROJECT No. C-0363

LINWOOD CENTER PARKING LOT ZONED: POR

TAX MAP No. 25 GRID No. 01 PARCEL No. 264



ECP-19-057