GENERAL NOTES

1. SITE ANALYSIS: TOTAL PROJECT AREA: 0.253 AC PRESENT ZONING: R-SC USE OF STRUCTURE: RESIDENTIAL BUILDING COVERAGE: 1,968 SF (0.05 AC) PAVED AREA ON SITE: 1,029 SF. (0.02 AC.) LIMIT OF DISTURBED AREA: 0.191 AC

CUT: 350 CY FILL: 180 CY PROJECT BACKGROUND: LOCATION: TAX MAP 50, BLOCK 3, PARCEL 426

DEED REFERENCES: L. 19362 / F. 1 DPZ REFERENCES: PLAT BOOK 3, PAGE 47, PLAT BOOK 61, PAGE 470-471.

THE COORDINATES SHOWN HEREON ARE RASED UPON HOWARD COUNTY GEODETIC CONTROL MONUMENTS 50BD AND 50B5.

4. THE BOUNDARY & TOPOGRAPHY SHOWN HEREON IS BASED ON A SURVEY PERFORMED BY NJR & ASSOC., LLC. DATED JULY, 2017. . THIS PROPERTY IS LOCATED IN THE METROPOLITAN DISTRICT AND IS TO BE SERVED BY PUBLIC WATER AND PUBLIC SEWER. WATER CONTRACT No. 44-3727-D, SEWER CONTRACT No. 10-3697. THE SUBJECT PROPERTY IS ZONED "R-SC" PER THE 10-06-2013 COMPREHENSIVE

A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124

OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. A FINANCIAL SURETY WITH THE AMOUNT TO BE DETERMINED AT SDP STAGE FOR THE REQUIRED 6 SHADE TREES SHALL BE POSTED WITH THE GRADING PERMIT FOR THIS PLAN. THE SUBJECT PROPERTY IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202(b)(1)(i) AS THE PROPERTY IS LESS THEN 40,000 SQUARE FEET.

10. NO RARE, THREATENED OR ENDANGERED SPECIES. WERE OBSERVED ON THIS PROJECT IS. SUBJECT TO COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. DEVELOPMENT OR CONSTRUCTION ON THIS PROPERTY MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATIONS OR

BUILDING / GRADING PERMIT APPLICATIONS 12. DECATUR PLACE IS NOT A SCENIC ROAD. 3. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO CEMETERIES OR GRAVE SITES LOCATED ON THE SUBJECT PROPERTY. 14. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND

NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS. STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION AREAS AND 100 YEAR 15. STORM WATER MANAGEMENT TO BE PROVIDED FOR THIS DEVELOPMENT BY

ENVIRONMENTAL SITE DESIGN UTILIZING TWO MICRO-BIORETENTIONS (M-6). 16. THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT, NOR ARE THERE ANY HISTORIC STRUCTURES ON SITE. 17. THIS PROJECT IS LOCATED WITHIN THE LITTLE PATUXENT RIVER WATERSHED.

18. THERE IS NO EXISTING STRUCTURE LOCATED ON THIS PROPERTY. 19. THIS PROPERTY CONTAINS ERODIBLE SOIL. 20. A WRITTEN REQUEST OF JUSTIFICATION FOR NECESSARY DISTURBANCE WITHIN THE 50' INTERMITTENT

STREAM BUFFER IS BEING SUBMITTED TO THE DIVISION OF LAND DEVELOPMENT OF THE DEPARTMENT OF PLANNING AND ZONING OF HOWARD COUNTY, MARYLAND FOR THE DRIVEWAYAND SWM. 21. ALL OFFSITE DISTURBANCE INTO THE ADJOINING PROPERTIES MUST BE CONTAINED WITHIN THE RECORDED EASEMENTS.

22. APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN STAGE AND/OR RED-LINI REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

23 AWAIVER PETITION APPROVAL WILL BE REQUIRED FOR THE BUILDING LOCATED WITHIN SO BUFFER OF THE INTERMITTENT STREAM.

SWM Concept Design Narrative Stormwater management at the proposed development

will be addressed by implementing Environmental Site Design (ESD) practices to the maximum extent possible (MEP), in accordance with the revised Maryland Department of the Environment (MDE) Stormwater Design Manual Chapter 5. The proposed development is not within any

Critical Areas per Appendix D.4, nor is this a redevelopment project, or a commercial/industrial project. This site is not defined as a hot spot. Environmental Site Design (ESD) will be achieved for the project by structural ESD practices. These include two Micro-Bio Retentions (M-6).

The property is currently vacant and covered by a young forest of trees 6-12" dbh. A new single family, 1,968 square feet house is proposed, with a concrete driveway connecting to existing Decatur Place, according to the County Standards.

The property will be serviced by public water and public sewer. This property in not subject to Historic District Commission requirements. This property does not lie within the BWI Airport Noise Zone or the Airport Zoning District. Furthermore, this property is not subject to Design Advisory Panel review (Route 1 or Route 40 Corridor).

Natural Resources Protection and Enhancement: The property is occupied with young woods. No specimen trees exist on this site. There are no floodplain, wetlands and steep slopes and their associated buffers existing on this property. There is erodible

soil existing on this site. There also a 50 foot buffer of an intermittent on—site stream located on this site and within the proposed limit of disturbance for which an Alternative Compliance application is being submitted There will be no offsite drainage running through this site as the the construction of Lot-14 is completed per SDP-20-001. The proposed construction of the new house, greaway. driveway, walkway and stoop is anticipated to cause disturbance of the entire approximately 8,334 square feet

Maintenance of Natural Flow Patterns: Natural topography of the site exhibits runoff concentrated flowing in easterly direction from western side. The natural slopes will be maintained and all drainage from the impervious surfaces will be diverted to the two Micro-Bio Retention facilities. Minimal or no drainage will be added from any of the proposed impervious surfaces to the easterly direction.

ENVIRONMENTAL CONCEPT PLAN BLOCK "T" NORTH LAUREL PARK

SARAH A. IBRAHIM PROPERTY 9295 DECATUR PLACE

Reduction of Impervious Areas: The house footprint has been minimized by proposing a mid-sized 2-story house with basement rather than a rancher-style design. The proposed driveway width will be kept to the minimal to insure access to the two car garage. The limit of disturbance is kept to a minimum possible for this site.

Integration of Erosion & Sediment Controls into SWM Strategy Super Silt Fence will be installed on downstream side of the limit of disturbance to trap any sediment-laden runoff during construction of the house. The Stabilized Construction Entrance will be placed at the

same location as the permenant driveway. Implementation of ESD Planning Techniques and Practices: The following is an overview of applicability for

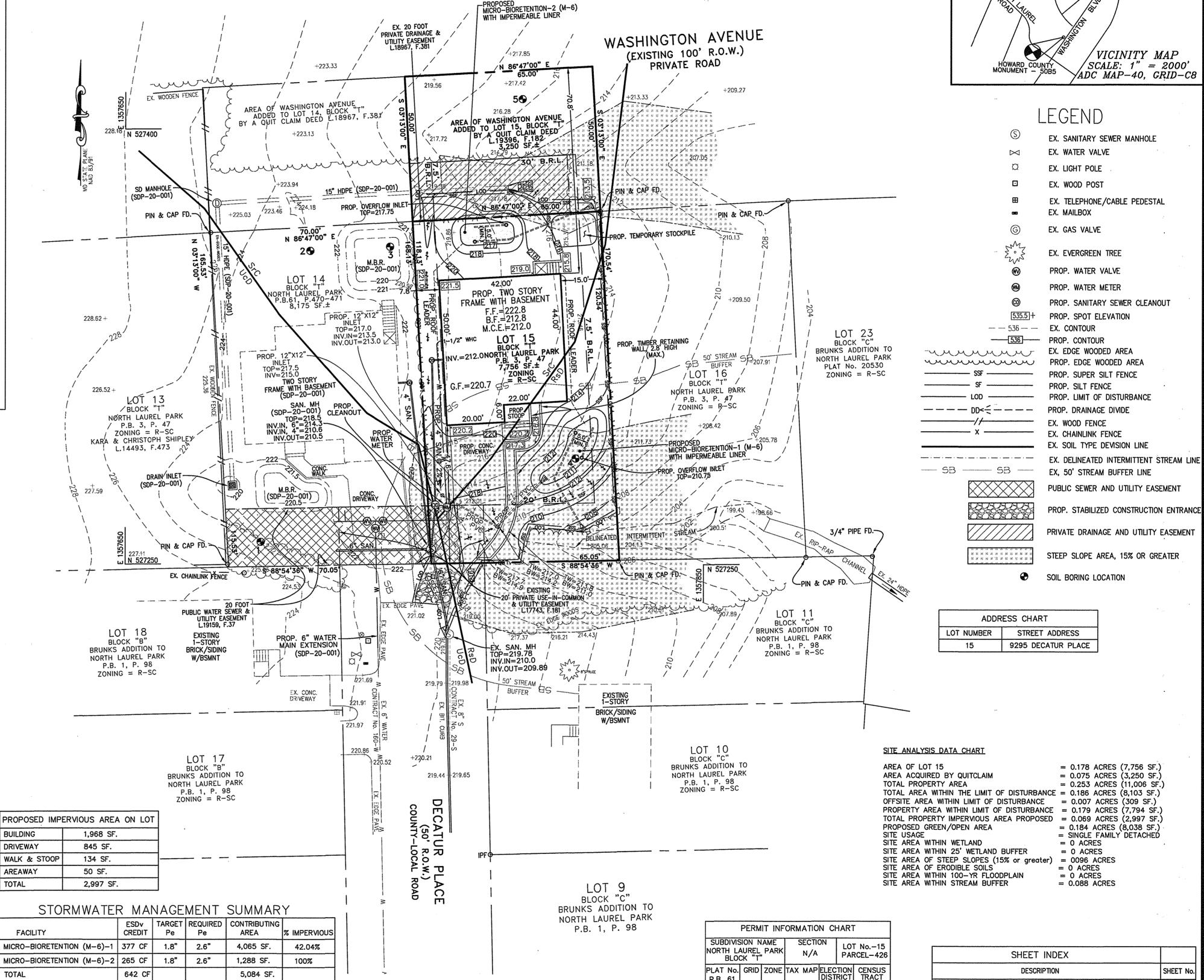
stormwater ESD practices considered for this project; Alternative Surfaces: ESD practice includes green roofs, permeable pavements, and reinforced turf. Green roofs were not applied due to the relative high cost of the system for a

residential structure. Permeable pavements such as porous pavement and concrete pavers were not used due the poor quality of the soil on site. Reinforced turf has not been used, since frequent vehicle movement is expected on the driveway.

Nonstructural Practices: ESD practice involves directing flow from impervious areas onto vegetated areas where it can soak into or filter over ground instead of being connected to storm drain system. These measures are not being proposed as this in an in fill lot on an existing subdivision with limited

Structural Micro-Scale Practices: Micro-Bio Retention (M-6) will be used to treat runoff from the rooftop downspouts walkway, stoop and the driveway. These items were unable to be disconnected otherwise.

Waiver to Environmental Regulations: A written request of justification for necessary disturbance within the 50' stream buffer for this development is being submitted to the Division of Land Development of the Department of planning and Zoning of Howard County.



SOIL TABLE

NAME/DESCRIPTION

Sassafras & Croom

5 to 10% slopes

Urban land-Chillum-Beltsville

Complex, 5 to 15% slopes

Russett Fine Sandy Loam

10 to 15% slopes

SYMBOL

SrC

TYPE HYDROLIC K VALUE HIGHLY EROTIBLE

0.28

0.37

0.43

YES

YES

YES

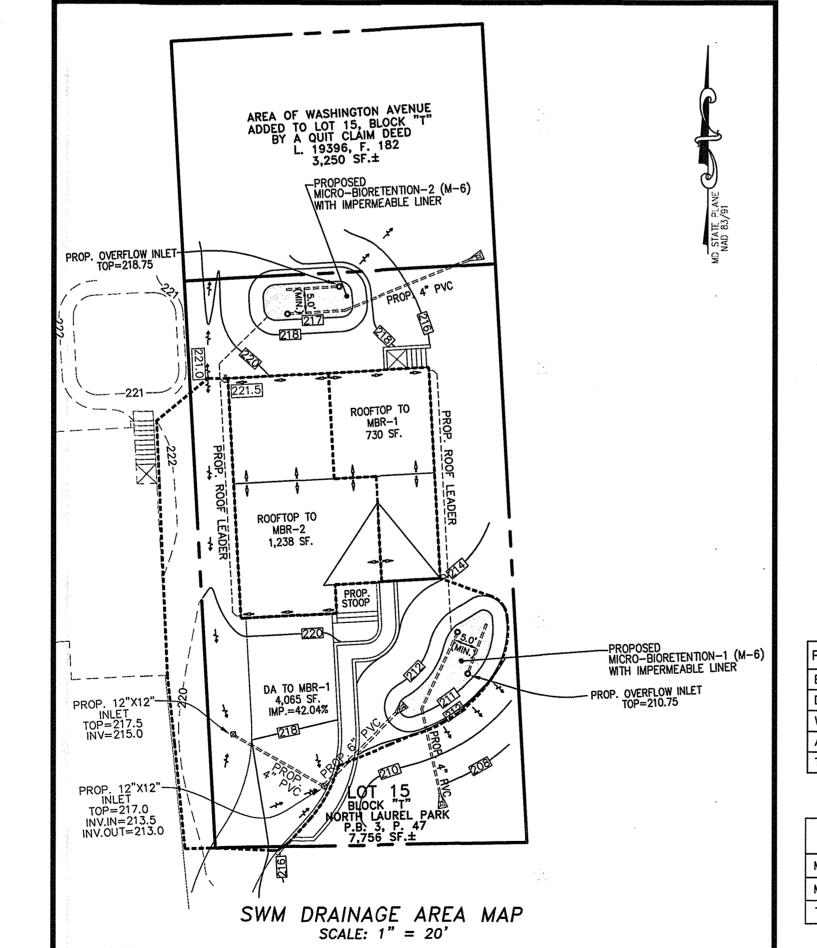
NO

WASHINGTON

TE HIS LACE

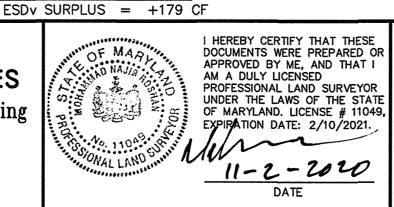
AVENUE

BALTIMORE AVENUE



APPROVED: DEPARTMENT OF PLANNING AND ZONING REVISIONS DATE DETAILS 23.21 , DEVELOPMENT ENGINEERING DIVISION 1/27/21 CHIEF, DIVISION OF LAND DEVELOPMENT KB DATE

PLAN PREPARED BY: NJR & ASSOCIATES Land Surveying and Planning 2770 STATE ROUTE 32 WEST FRIENDSHIP, MD 21794 TEL: (240) 508-3200



ESDv PROVIDED = 642 CF

ESDv REQUIRED = 463 CF

DEVELOPER'S CERTIFICATE "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE ONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL Ichae Villes

GRAPHIC SCALE 1"=20"

SIGNATURE OF DEVELOPER

DEVELOPER THE LEGENDS GROUP 307 COMPTON AVENUE LAUREL, MD 20707 (301) 490-3651

9609 OVERTON DRIVE

LAUREL, MD 20723

(513) 410-6171

470-471

WATER CODE- C-05

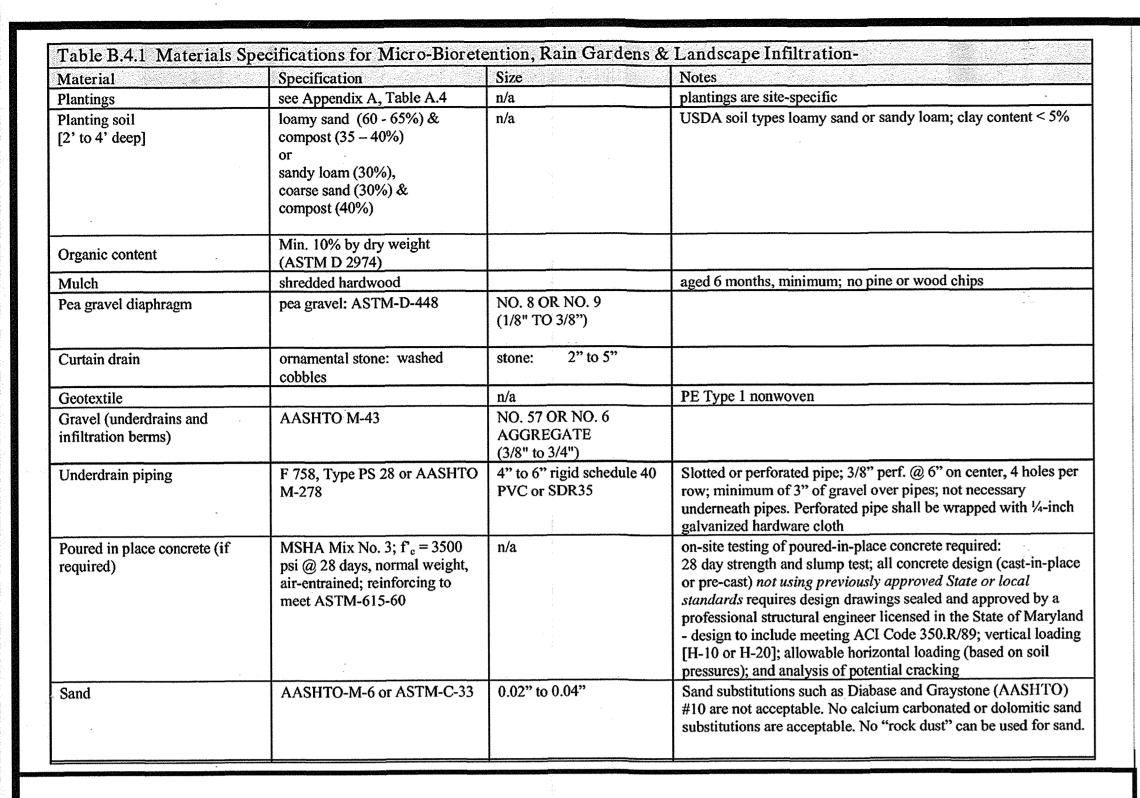
OWNER SARAH A. IBRAHIM

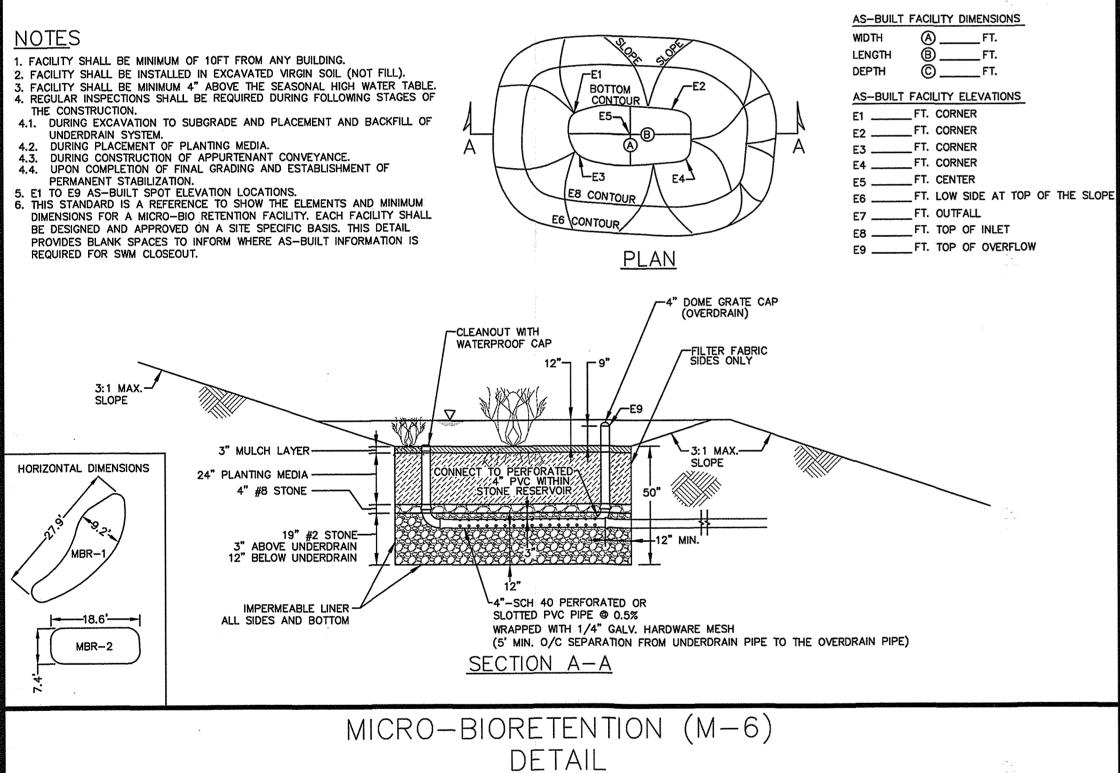
SITE LAYOUT, GRADING, SOIL EROSION AND SEDIMENT CONTROL PLAN SITE DETAILS AND NOTES SEWER CODE- 7141500 SITE LAYOUT, GRADING, SOIL EROSION AND SEDIMENT CONTROL PLAN NORTH LAUREL PARK BLOCK "T

SARAH A. ABRAHIM PROPERTY 9295 DECATUR PLACE PLAT BOOK 61, PLAT 470-471 TAX MAP 50, GRID 3, PARCEL 426 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOB NO.: 3404

DATE : MAY 10, 2020 | SHEET : 1 OF 2





MI	CRO-BIORE	ETENTION FAC	CILITY ELEVATION (CHART			
FACILITY TOP POND TOP MULCH INVERT UNDERDRAIN BOTTOM							
1	212.0	211.0	207.83	206.83			
2	218.0	217.0	213.83	212.83			

(NOT TO SCALE)

	STORMWATER MANAGEMENT PRACTICES OT No. ADDRESS GREEN PERMEABLE REINFORCED OF OF NON. CONSERVATION HARVESTING GRAVEL LANDSCAPE INFLITRATION DRY MICRO- RAIN GARDENS SOCIETY OF NON. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NON. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NON. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NON. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NO. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NO. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NO. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NO. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NO. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NO. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NO. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION GARDENS SOCIETY OF NO. ROOFTOP AREA LOT NO. WETI AND INFILTRATION BERMS WELLS BIORETENTION BERMS WELLS BERM															
LOT No.	ADDRESS	GREEN ROOF	PERMEABLE PAVEMENT	REINFORCED TURF	DISCONNECTION OF ROOFTOP RUNOFF	DISCONNECTION OF NON. ROOFTOP RUNOFF	SHEETFLOW TO CONSERVATION AREA	RAINWATER HARVESTING LOT No.	SUBMERGE GRAVEL WETLAND	LANDSCAPE INFILTRATION	INFLTRATION BERMS	DRY WELLS	MICRO-BIORETENTION	RAIN GARDENS	SWALES	ENHANCE FILTER
	9295	A-1 (Y/N)	A-2 (Y/N)	A-3 (Y/N)	N-1 (NUMBER)	N-2 (Y/N)	N-3 (Y/N)	M-1	M-2 (NUMBER)	M-3 (NUMBER)	M-4	M-5 (NUMBER)	M-6 (NUMBER)	M-7 (NUMBER)	M-8 (NUMBER)	M-9 (NUMBE
15	DECATUR PL.	N	N	N	0	N	N	0	0	0	0	0	2	0	0	0

No. DATE

2.8.21

DATE

DATE

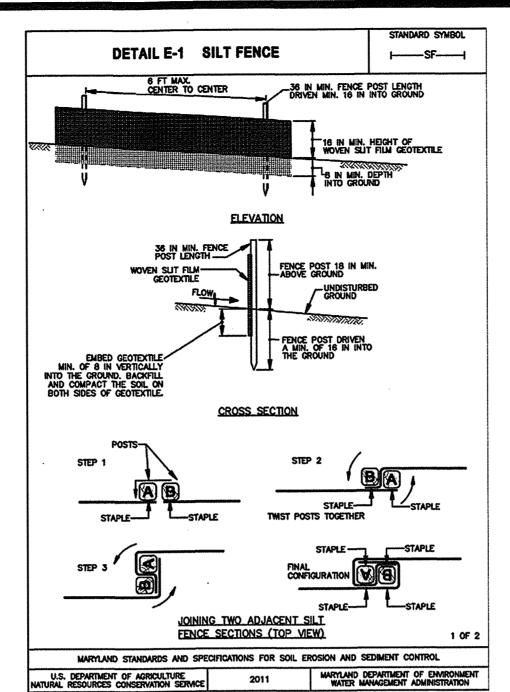
DEPARTMENT OF PLANNING AND ZONING

, DEVELOPMENT ENGINEERING DIVISION A

CHIÉF, DIVISION OF LAND DEVELOPMENT KA

REVISIONS

DETAILS



BIORETENTION AREA SOIL SPECIFICATION

THE BIORETENTION AREA SHALL CONSIST OF A PLANTING SOIL

30% ORGANIC COMPOST OR MULCH TO PROVIDE A SOIL MEDIUM

THE PLANTING SOIL SHALL BE FREE OF PLANTS OR PLANT

MUGWART, NUTSEDGE, POISON IVY, CANDIAN THISTILE OR OTHER

IT SHALL NOT CONTAIN TOXIC SUBSTANCES HARMFUL TO PLANT

PARTS OF BERMUDA GRASS, QUAKE GRASS, JOHNSON GRASS,

THE PLANTING SOIL SHALL BE TESTED AND MEET THE

ORGANIC MATTER 15 - 30%

THE FOLLOWING TESTING FREQUENCIES SHALL APPLY TO THE

ONE GRAIN SIZE ANALYSIS SHALL BE PERFORMED PER 90 CUBIC

A MULCH LAYER SHALL BE PROVIDED ON TOP OF PLANTING

HARDWOOD OR SHREDDED WOOD CHIPS OR OTHER SIMILAR PRODUCTS

UNIFORM IN COLOR, AND FREE OF FOREIGN MATERIALS, INCLUDING

BEEN STOCK PILED OR STORED FOR AT LEAST TWELVE (12) MONTHS.

THE SAND SHALL BE FREE OF DELETERIOUS MATERIAL AND ROCKS

SOIL SHALL BE PLACED IN LIFTS LESS THAN 18 INCHES AND

REQUEST FOR PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE

3. CONSTRUCTION AND STABILIZATION OF PERIMETER CONTROLS, (1 DAY).

7. UTILITY INSTALLATION AND CONNECTIONS TO EXISTING STRUCTURES, (4

8. CONSTRUCTION OF BUILDING, ROADS, AND OTHER CONSTRUCTION, (4

10. INSTALLATION OF STORMWATER MANAGEMENT MEASURES (4 DAYS).

11. APPROVAL OF THE APPROPRIATE ENFORCEMENT AUTHORITY PRIOR TO

12. REMOVAL OF CONTROLS AND STABILIZATION OF AREAS THAT ARE DISTURBED

NOTE: ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST

BE REVIEWED AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO

9. FINAL GRADING, LANDSCAPING, AND STABILIZATION, (3 DAYS).

2. CLEARING AND GRUBBING AS NECESSARY FOR INSTALLATION OF PERIMETER

REMAINING CLEARING AND GRUBBING WITHIN INSTALLED PERIMETER CONTROLS

APPROVED BY THE HOWARD COUNTY DEPARTMENT OF ENVIRONMENTAL

PLANT MATERIAL, WELL AGED MULCH IS DEFINED AS MULCH THAT HAS

OF THE APPROVED MULCH PRODUCTS, ALL MUST BE WELL AGED.

YARDS OF PLANTING SOIL, BUT NO LESS THAN 1 TEST PER

SOIL, AN ACCEPTABLE MULCH LAYER SHALL INCLUDE SHREDDED

PH ORGANIC MATTER: 1 TEST PER 90 CUBIC YARDS, BUT NOT

WITH HIGH HYDROLOGIC CAPACITY.

PH RANGE

GREATER THAN ONE INCH IN DIAMETER.

SEQUENCE OF CONSTRUCTION

6. GRADING FOR THE REMAINDER OF THE SITE, (2 DAYS).

REMOVAL OF SEDIMENT CONTROLS, (1 WEEK).

PROCEEDING WITH CONSTRUCTION.

BY REMOVAL OF SEDIMENT CONTROLS, (2 DAYS).

ENFORCEMENT AUTHORITY, (2-WEEKS).

MORE THAN 1 TEST PER BIORETENTION AREA.

FOLLOWING CRITERIA:

BIORETENTION AREA.

MULCH LAYER SPECIFICATION:

ABOVE SOILS:

RESOURCES.

COMPACTION:

SAND SPECIFICATION:

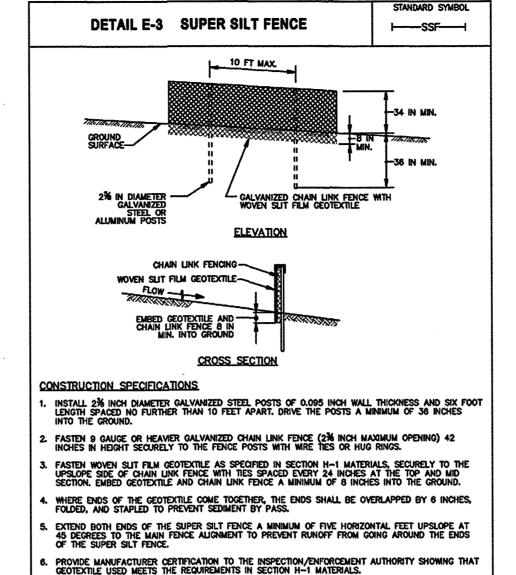
LIGHTLY COMPACTED.

CONTROLS, (1 DAY).

5. DRIVEWAY GRADING, (1 DAY).

HAVING A HOMOGENOUS MIX OF 50% CONSTRUCTION SAND. 20-30%

TOPSOIL WITH AN ALLOWABLE 5% MAXIMUM CLAY CONTENT, AND 20-



REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

BIORETENTION AREA PLANT SPECIFICATION

DURING TRANSPORT FROM SOURCE TO THE JOB SITE AND UNTIL

WALLS OF PLANTING PIT SHALL BE DUG SO THAT THEY ARE

_ THE DIAMETER OF PLANTING PIT MUST BE A MINIMUM OF SIX

INCHES LARGER THAN THE DIAMETER OF THE ROOT BALL.

THE BOTTOM OF THE PIT SHALL BE TAMPED BY HAND.

___ THE APPROPRIATE AMOUNT OF FERTILIZER IS TO BE PLACED

___ THE PLANT SHALL BE REMOVED FROM THE CONTAINER AND

PLACED AT THE BOTTOM OF THE PLANTING PIT BY LIFTING

AND CARRYING THE PLANT BY ITS BALL. NEVER LIFT THE

___ SET THE PLANT STRAIGHT AND IN THE CENTER OF THE PIT SO

__ MAKE SURE PLANT REMAINS STRAIGHT DURING BACKFILLING

__ NEVER COVER THE TOP OF THE BALL WITH SOIL. MOUND SOIL

TREE SHALL BE BRACED USING 2" X 2" WHITE OAK STAKES.

STAKES SHALL BE PLACED PARALLEL TO WALKWAYS AND BUILDINGS.

STAKES ARE TO BE EQUALLY SPACED ON THE OUTSIDE OF THE TREE

___ TREE AND SHRUB FERTILIZER SHALL BE A 21 gm. TIGHTLY COMPRESSED, LONG LASTING, SLOW RELEASE (2-YEAR) FERTILIZER

TABLET WITH MINIMUM GUARANTEED ANALYSIS OF 20-10-5:

WATER SOLUBLE ORGANIC NITROGEN - 7%

___ FOR CONTAINERIZED TREES AND SHRUBS, PLACE THE SPECIFIED

FERTILIZER TABLET(S) IN THE BOTTOM OF THE PLANTING PIT

1 GAL. CONTAINER 1 ea, 21 gm. TABLETS.

3 GAL. CONTAINER 2 ea, 21 gm. TABLETS.

5 GAL. CONTAINER 3 ea, 21 gm. TABLETS.

7 GAL. CONTAINER 5 ea, 21 gm. TABLETS.

__ THE GROUND COVER PLANTING HOLES SHALL BE DUG THROUGH

THE MULCH WITH ONE OF THE FOLLOWINGS: HAND TROWEL.

___ BEFORE PLANTING BIODEGRADABLE POTS, THEY SHALL BE SPLIT.

AND NON BIODEGRADABLE POTS SHALL BE REMOVED. ROOT

__ THE GROUND COVER SHALL BE PLANTED SO THAT ROOTS ARE SURROUNDED BY THE SOIL BELLOW THE MULCH. POTTED PLANTS

THE MULCH AND PLANTED GROUND COVER BED SHOULD BE

SHOULD BE COVERED WITH A PRE-EMERGENT HERBICIDE.

__ THE ENTIRE GROUND COVER BED SHALL BE THOROUGHLY

SHALL BE SET SO THAT THE TOP OF THE POT IS EVEN WITH THE

EXISTING GRADE. THE ROOTS OF BARE-ROOT PLANTS SHALL BE

SYSTEMS OF THE POTTED PLANTS SHALL BE SPLIT OR

SHOVEL, BULB PLANTER, OR HOE (THIS DOES NOT APPLY TO

WATER IN SOLUBLE ORGANIC NITROGEN - 13% AVAILABLE PHOSPHORIC ACID (P2 05) - 10%

TOTAL NITROGEN (N) - 20%

SOLUBLE POTASH (K20) - 5%

ACCORDING TO THE FOLLOWING RATES:

PLANTING NON-GRASS GROUND COVER:

GRASS OR LEGUMES).

COVERED TO THE CROWN.

BALL. THE TREE IS BRACED TO THE STAKES UTILIZING HOSE AND WIRES.

THE CENTER OF THAT THE BALL IS APPROXIMATELY 1/4 ABOVE THE

THE PLANTING PIT SHALL BE DEEP ENOUGH TO ALLOW 1/4 OF

THE BALL TO BE ABOVE THE EXISTING GRADE. LOOSE SOIL AT

ROOT STOCK OF PLANT MATERIAL SHALL BE KEPT MOIST

VERTICAL.

AT THE BOTTOM OF THE PIT.

FINAL GRADE.

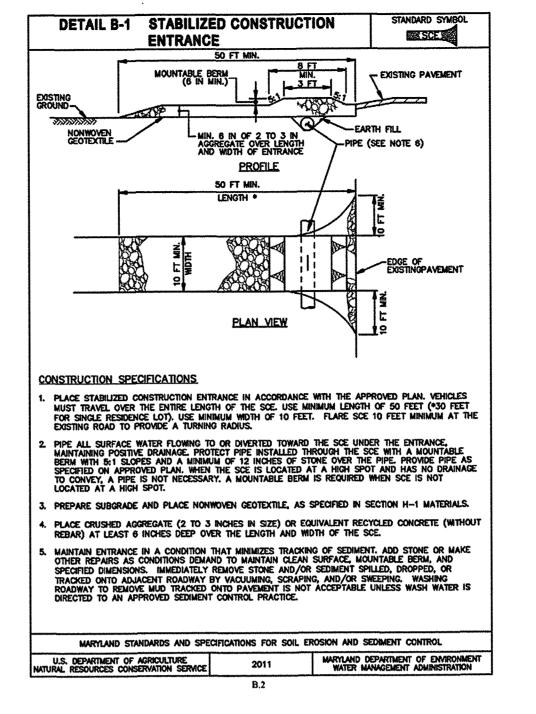
FERTILIZER:

PLANT BY THE BRANCHES OR TRUNK.

__ BACKFILL PLANTING PIT WITH EXISTING SOIL.

AROUND THE EXPOSED SIDE OF THE BALL.

___ MAKE SURE MULCH DOES NOT CONTACT TREE'S TRUNK.



B-4-4 STANDARDS AND SPECIFICATIONS

TEMPORARY STABILIZATION

To stabilize disturbed soils with vegetation for up to 6 months. To use fast growing vegetation that provides cover on disturbed soils. Conditions Where Practice Applies Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices

1. Select one or more of the species or seed mixtures listed in Table B.I for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths If this Summary is not put on the plan and completed

then Table B.1 plus fertilizer and lime rates must be For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.

3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.A. .b and maintain until the next seeding season.

	ordiness Zone (ed Mixture (fro	Fertilizer				
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depth	Rate (10-20-20)	Lime Rate
1	Cool Season Annual Ryegrass or Equal	40 lb/ac	Mar. 1 to May 15. Aug. 1 to Oct. 15.	1/2 In	436 lb/ac 10 lb/	2 tons/ac (90 lb/ 1000 sf)
2	Warm Season Foxtail Millet or Equal	30 lb/ac	May 16 to July 31.	1/2 In	1000 sf)	

Permanent Seeding Summary Hardiness Zone (from Figure B.3): ZONE 6b Fertilizer Rate

	PLAN	TING SCHEDUL	_E - MICR	O-BIORE	TENTION
	BOTANICAL NAME	COMMOMN NAME	CONDITION	SIZE	REMARKS
SHRUB	ILEX GABRA	INKBERRY	CONTAINER	12"	PLANT 3' APART
SHRUB	HAMEMELIS VIRGINIANA	WITCH HAZEL	CONTAINER	12"-24"	PLANT 3' APART
PERENNIAL	IRIS VERSICOLOR	BLUE FLAG	SEEDLINGS		PLANT 15" APART, TRIANGULAR GRID
PERENNIAL	GERANIUM MACULATUM	CRANESBILL	SEEDLINGS		PLANT 15" APART, TRIANGULAR GRID
PERENNIAL	SOLIDAGO SPHACELATA	GOLDEN FLEECE	SEEDLINGS		PLANT 15" APART, TRIANGULAR GRID

OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIO RETENTION (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 of each year. During

the inspection, the Owner shall remove 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

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

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

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

To stabilize disturbed soils with permanent vegetation To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies Exposed soils where ground cover is needed for 6 months or more.

1. General Use

a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The

Summary is to be placed on the plan. b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special ourposes such as wildlife or aesthetic treatment may be found n USDA—NRCS Technical Field Office Guide, Section 342 — Critical Area Plantina

c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency. d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 'A pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.

2. Turfgrass Mixtures a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance. b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected

mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan. i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive managemen Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to

2.0 pounds per 1000 square feet. Choose a minimum

of three Kentucky Bluegrass Cultivars with each ranging from 10 to 35 percent of the total mixture ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in fill sun areas where rapid establishment is necessary and when turf will receive medium to intensive management Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by

iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.

iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 11/4 to 3 pounds per 1000 square feet.

Select turfgrass varieties from those listed in the most current university of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland" Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line c. Ideal Times of Seeding for Turf Grass Mixtures

Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a) Central MD: March I to May 15, August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March I to May I5, August 15 to October 15 (Hardiness Zones: 7a, 7b) d. Till areas to receive seed by disking or other

approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 11/4 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.

e. If soil moisture is deficient, supply new seeding with adequate water for plant growth (1/4 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings hot seasons, or on adverse sites.

ed Mixture (fro		Lime Rate					
Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depth	N	P ₂ 0 ₅	к ₂ 0	Line Nate
Cool Season Tall Fiscue & Kuntucky Bluegrass or equal	T.F. 60 lb/ac		1/4-1/2 In	45 pounds per acre (1.0 lb/ 1000 sf)	90 lb/ac (2 lb/ 1000 sf)	90 lb/ac (2 lb/ 1000 sf)	2 tons/ac (90 lb/ 1000 sf)
	K.B. 40 lb/ac	Aug. 15 to Oct. 15.					
	B. Sod: To provi		ver on distur	bed areas (2:1 grade	or flatter).

a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector. b. Sod must be machine cut at a uniform soil thickness of 3/4 inch, plus or minus '/4 inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable.

c. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the d. Sod must not be harvested or transplanted when moisture

content (excessively dry or wet) may adversely affect its survival. e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period must be approved by an agronomist or soil scientist prior to its installation.

2. Sod Installation a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod. b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength.

Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots. c. Wherever possible, lay sod with the long edges parallel to the exists between sod roots and the underlying soil surface. d. Water the sod immediately following rolling and tamping until

contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping and irrigating for any piece of sod within eight hours. 3. Sod Maintenance

a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches.

Nater sod during the heat of the day to prevent wilting. b. After the first week, sod watering is required as necessary to maintain adequate moisture content. c. Do not mow until the sod is firmly rooted. No more

than t/3 of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

WATERED.

PLAN PREPARED BY:

2770 STATE ROUTE 32

TEL: (240) 508-3200

WEST FRIENDSHIP, MD 21794

NJR & ASSOCIATES Land Surveying and Planning

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OF APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE # 11049, EXPIRATION DATE: 2/10/2021.

DEVELOPER'S CERTIFICATE "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT

SIGNATURE OF DEVELOPER

307 COMPTON AVENUE 11.2.20 LAUREL, MD 20723

LAUREL, MD 20707 (301) 490-3651 OWNER SARAH A. IBRAHIM 9609 OVERTON DRIVE

(513) 410-6171

DEVELOPER

THE LEGENDS GROUP

SITE DETAILS AND NOTES NORTH LAUREL PARK LOT 15 BLOCK "T"

SARAH A. IBRAHIM PROPERTY

9295 DECATUR PLACE PLAT BOOK 61, PLAT 470-471 TAX MAP 50, GRID 3, PARCEL 426 HOWARD COUNTY, MARYLAND 6th ELECTION DISTRICT ZONING: R-SC DATE : MAY 10, 2020 | SHEET : 2 OF 2 SCALE: 1" = 20'JOB NO.: 3404