

GUTTER 1	 DRAIN FILTER DETAIL	
elontification de constitution de la constitution d	NOT TO SCALE	
	24**	
<u>MAXIMUM</u>	BUILDING HEIGHT DETA	AL
	NOT TO SCALE	
	LEGEND	
SYMBOL	DESCRIPTION EXISTING 2' CONTOURS	
-490 - -402	EXISTING 10' CONTOURS PROPOSED CONTOUR	
+362.5	SPOT ELEVATION EX. FENCE LINE (WOVEN WIRE & METAL POSTS)	
· · · · · · · · · · · · · · · · · · ·	EX. FENCE LINE (SPLIT RAIL OR SLAT FENCE) EX. LIMIT OF TREES AND FOREST	
	PROPOSED TREELINE	
£3	existing trees	
	ROOFTOP DISCONNECTION (N-1) & SHEET FLOW TO NATURAL CONSERVATION AREA (N-3) NON-ROOFTOP DISCONNECTION (N-2)	
+ + + +	EXISTING ROAD & PROPOSED DRIVEWAY PAVING PROPOSED FOREST CONSERVATION	1
	PROPUSED FOREST CONSERVATION PROPOSED FOREST CONSERVATION EASEMENT (RETENTION)	
	EXISTING & PROPOSED SEWAGE DISPOSAL AREA	PEX WAT
and the second s	SOIL LINES AND TYPES	SEX MARE HADRANI O EX MAREN MANA
	PUBLIC WATER AND UTILITY EASEMENT PRIVATE USE-IN-COMMON DRIVEWAY ACCESS STORMWATER MANAGEMENT &	-4964
LOD	DRAINAGE EASEMENT LIMITS OF DISTURBANCE	
	EXISTING DRIVEWAY TO BE REMOVED	1 1 4
econo TPF escuence	STABILIZES CONSTRUCTION ENTRANCE TREE PROTECTIVE FENCING	
—58 —	STREAM BUFFER	
	PROPOSED FOREST CONSERVATION EASEMENT SIGNAGE SILT FENCE	
55F	SUPER SILT FENCE	
4	• •	1.
A-2	earth dike Specimen Tree	//

SHEET INDEX

SEDIMENT & EROSION CONTROL NOTES & DETAILS

SITE DEVELOPMENT PLAN

FISHER, COLLINS & CARTER, INC.

(410) 461 - 2855

CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

3 SEPTIC INSTALL PLAN

SHEET NO.

DESCRIPTION

4 STORMORAIN PROFILES & DETAILS AND STORMWATER MANAGEMENT DETAILS

REVISION

	PRINCE Notes: UBJECT PROPERTY IS ZONED RC-DEO PER THE COMPREHENSIVE ZONING PLAN DATED 10/06/13.
LE	IE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT AST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK. JE CONTRACTOR SHALL NOTIFY (MISS UTILITY) AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
4. TH INC	IS PLAN IS BASED ON FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT AUGUST, 2013 BY FISHER, COLLINS & CARTER, C.BOUNDARY SHOWN HEREON IS BASED ON RECORD PLAT NO. 23512 THRU 23515, RECORDED ON OCTOBER 9, 2015. PROPERTY CORNERS LOCATED & PRIFIED, AND EXISTING TOPOGRAPHY OBTAINED BY FIELD SURVEY BY FISHER, COLLINS, & CARTER, INC. IN MAY, 2011.
5. TH HC	IE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON NAD 83 COORDINATE SYSTEM. DWARD COUNTY CONTROL STATION NOS. 16HC & 16HE.
7. ST	LEVIOUS DPZ FILE NUMBERS: F-76-053, (PLAT #3413); F-90-65, (PLAT #13163), ECP-14-010, F-14-073 & f-14-0735. **ORMWATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II, (EFFECTIVE OCTOBER 2000, REVISED MAY 1009). STORMWATER MANAGEMENT FOR LOT I IS BEING PROVIDED BY ONE MICRO-BIORETENTION FACILITY (M-6) (FOR A PORTION OF THE PROPOSED
DR OF	EIVEWAY AND THE PROPOSED HOUSE. THE REMAINING PORTION OF DRIVEWAY IS BEING TREATED BY NON-ROOFTOP DISCONNECTION (N-2). DECLARATION COVENANTS WILL BE REQUIRED FOR THE PROPOSED STORMWATER MANAGEMENT ON LOT 1. A PASSING SEPTIC TEST HOLE IS WITHIN 50 FT. OF THE COPOSED MICRO-BIORETENTION FACILITY SHOWING ADEQUATE INFILTRATION RATES, SO NO ADDITIONAL BORING WILL BE NEEDED.
Ø. TH CO	IIS PROPERTY IS LOCATED INSIDE THE METROPOLITAN DISTRICT. LOT 1 IS TO BE SERVED PUBLIC WATER AND PRIVATE SEWER (SEPTIC), PUBLIC WATER ONTRACT NO. IS 44-4838-D. PRIVATE SEPTIC EASEMENT WILL BE UTILIZED FOR SEWER SERVICE.
10. NO 11. NO	IY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.) STEEP SLOPES EXIST ON-SITE.) ENVIRONMENTAL FEATURES EXISTING ON-SITE. INCLUDING WETLANDS, WETLAND BUFFERS, FOREST, 100 YEAR FLOODPLAIN OR STREAMS PER
12. TH	MIRONMENTAL FINDINGS AS DETERMINED BY ECO-SCIENCE PROFESSIONALS, INC. DATED OCTOBER 11, 2013. IIS PLAN IS IN COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. IIS PROJECT (FOR LOTS 1-6) COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST AND AFFORESTATION
PL 5Q	ANTING OF 2.23 ACRES (97,139 SQ. FT.) OF FOREST THERE IS ALSO 0.90 ACRES OF ONSITE RETENTION. SURETY IN THE AMOUNT OF \$43,770 (87,556).FT. x \$0.50) HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT. AFFORESTATION SURETY BASED ON 2.01 ACRES, WHICH ACCOUNTS FOR NDSCAPE CREDIT OF 22 SHADE TREES PER F-14-073.
14. TH PL	IE PERIMETER LANDSCAPING OBLIGATION FOR LOTS 1-6 WAS PROVIDED IN ACCORDANCE WITH THIS CERTIFIED LANDSCAPE PLAN ON FILE WITH THE FINAL AT. IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL, A LANDSCAPE SURETY IN THE AMOUNT OF
DE	4,100.00 BASED ON 36 SHADE TREES @\$300/SHADE TREE AND 22 EVERGREEN TREES @ \$150/EVERGREEN IS BONDED WITH THE PUBLIC WORKS EVELOPER'S AGREEMENT AND F-14-073. IERE ARE NO EXISTING BUILDINGS ON THIS PROPERTY.
17. AL	R.L. DENOTES BUILDING RESTRICTION LINE. L AREAS ARE MORE OR LESS (±). STANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND NOT REDUCED TO NAD '83 GRID MEASUREMENT.
19. TH MA	IE 6508A NOISE LINE ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDER AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD BY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
CO	CEMETERY OR HISTORIC STRUCTURES EXIST WITHIN THE LIMITS OF THIS PLAN SUBMISSION. THE STRUCTURES WERE DETERMINED BY HISTORICAL OMMISSION DETERMINED THE BUILDINGS DID NOT OFFER SIGNIFICANT HISTORIC VALUE. COMMUNITY MEETING WAS CONDUCTED ON FEBRUARY 26, 2013 FOR THE PURPOSE OF THE DEVELOPER TO PROVIDE INFORMATION TO THE COMMUNITY
OF	EGARDING THE PROPOSED RESIDENTIAL DEVELOPMENT AND TO ALLOW THE COMMUNITY TO ASK QUESTIONS AND TO MAKE COMMENT, PER SECTION 16.12b(D) THE SUBDIVISION REGULATIONS. AT TIME OF SUBDIVISION. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON
TH	IESE PLANS: STATE HIGHWAY ADMINISTRATION 410.531.5533
	BGE(CONTRACTOR SERVICES) 410.050.4620 BGE(UNDERGROUND DAMAGE CONTROL) 410.707.9060 MISS UTILITY 1.000.257.7777
	COLONIAL PIPELINE COMPANY HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES HOWARD COUNTY HEALTH DEPARTMENT 410.795.1390 410.313.4900 410.313.2640
	AT&T 1.800.252.1133 VERIZON 1.800.743.0033/410.224.9210
DE	AFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL WICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT. L CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS
25. TH	ID SPECIFICATIONS IF APPLICABLE. IE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED. ISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER
PL CO	ANS AND OTHER AVAILABLE RECORD DRAWINGS, AND MISS UTILITY MARKINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE INTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY
OP	LECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S PERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. FIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES.
FE	ACCORDANCE WITH SECTION 120 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 ET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 ET INTO THE FRONT OR REAR YARD SETBACK.
29. DR 30. 50	IVEWAY FOR LOT 1 SHALL BE PROVIDED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R—6.06 IN THE VOL. IV DESIGN MANUAL. DILS SHOWN HEREON ARE BASED ON THE NRCS WEBSOIL SURVEY AND HOWARD COUNTY SOILS MAP #17.
32. DR	AIT OF DISTURBANCE: 23,027 SQ.FT. OR 0.53 ACRES. RIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR RE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
W 5	VIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE) SURFACE - 6" OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1 1/2" MIN)
5	¿EOMETRY — MAX. 15% GRADE, MAX 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS STRUCTURE (CULVERTS/BRIDGES) — CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING) DRAINAGE ELEMENTS — SAFELY PASSING 100—YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE
M 33. FU	1AINTENANCE — SUFFICIENT TO INSURE ALL WEATHER USE. AG AND PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR
34. TH HO	PESTEM AND ROAD RIGHT—OF—WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY IS PROJECT WILL NOT REQUIRE MITIGATION FROM FREDERICK ROAD AS IT IS A SCENIC ROAD BECAUSE OF THE DISTANCE BETWEEN THE ROAD AND DUSE.
D EVI	PRIVATE ROAD STREET NAME SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE ELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5752 FOR DETAILS AND COST ESTIMATES." 2R COUNTY C876-2018, PROPOSED SINGLE FAMILY HOUSES REQUIRE THAT ADEQUATE WIRING AND CIRCUITRY BE PROVIDED FOR AN ELECTRIC VEHICLE
	IARGING STATION IN THE GARAGE, AND THE ARCHITECTURAL PLANS SHOULD SHOW THIS TO BE PROVIDED.
WHITE	PERC AREA BROSENNE LANDSCAPING, INC. PLAT NO. 3413
LINE ROAD	PLAT NO. 3413 ZONED: RC-DEO
D STR	
5 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
	TOT Y
502	BROSENNE LANDSCAPING, INC. PLAT NO. 3413
TRASH.	ZONED: RC-DEO
THE PART OF THE PA	EX. PRIVATE USE-IN-COMMON DRIVEWAY ACCESS, ORNAMENTAL DRIVEWAY ACCESS, STORMWATER MANAGEMENT, & DRAINAGE EASEMENT FOR THE
Sold	USE AND BENEFIT OF LOTS 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THRU 6 AND NON-BUILDABLE PRESERVATION PARCEL 'A' RECORD PLAT NO. 23512
N700°0	THRU 23515 THRU 23515 THRU 23515 THRU 23515
4.02 49"	31 N25°35'36"E-457.06"
12" X8" 5	
12"x18" RCP (21') 508	507 HB CULTURAL COULT IN 1999
EX. WATER LINE	SILVER MAPLE EX. 8' DIA. UTILITY EASEMENT AUCUBA RECORD PLAT NO.
(PAINTED)	LOD 3 B 12 THRU 23515
EX. WATER METER (TBR)	EX. 18" ORNAMIENTAL ORNAMIENTAL ORNAMIENTAL
	CHERRY Unmitigated 65/dBA Noise
-512-	65/dBA Noise, Confour Line

- CONTRACTOR OF THE CONTRACTOR	General Notes:
1.	SUBJECT PROPERTY IS ZONED RC-DEO PER THE COMPREHENSIVE ZONING PLAN DATED 10/06/13.
2.	THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1800 AT
	LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
3.	THE CONTRACTOR SHALL NOTIFY (MISS UTILITY) AT 1-600-257-7777 AT LEAST 40 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
4.	THIS PLAN IS BASED ON FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT AUGUST, 2013 BY FISHER, COLLINS & CARTER,
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5.	THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON NAD 03 COORDINATE SYSTEM.
	HOWARD COUNTY CONTROL STATION NOS. 16HC & 16HE.
6.	PREVIOUS DPZ FILE NUMBERS: F-76-053, (PLAT #3413); F-90-65, (PLAT #13163), ECP-14-010, F-14-073 & f-14-0735.
7.	STORMWATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II, (EFFECTIVE OCTOBER 2000, REVISED MAY
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	DRIVEWAY AND THE PROPOSED HOUSE. THE REMAINING PORTION OF DRIVEWAY IS BEING TREATED BY NON-ROOFTOP DISCONNECTION (N-2). DECLARATION
	of coverants when the register for the first color stock through the first of the first to within 30 ft. of the
	PROPOSED MICRO-BIORETENTION FACILITY SHOWING ADEQUATE INFILTRATION RATES, SO NO ADDITIONAL BORING WILL BE NEEDED.
છ .	THIS PROPERTY IS LOCATED INSIDE THE METROPOLITAN DISTRICT. LOT 1 IS TO BE SERVED PUBLIC WATER AND PRIVATE SEWER (SEPTIC), PUBLIC WATER
_	CONTRACT NO. IS 44-4838-D. PRIVATE SEPTIC EASEMENT WILL BE UTILIZED FOR SEWER SERVICE.
•	ANV NAMACE TO TUE CONNITVE DICLT OF LIAV CHAN DE CODDECTED AT THE DEVELOPEDIC EXPENSE

	50ILS LEGEND		
50IL	NAME	CLA55	K FACTOR
GgB	Glenelg loam, 3 to 8 percent slopes	В	0.20
GgC	Glenelg loam, 0 to 15 percent slopes	В	0.20
GnB	Glenville—Baile silt loams, 0 to 8 percent slopes	С	0.37

SITE ANALYSIS DATA CHART

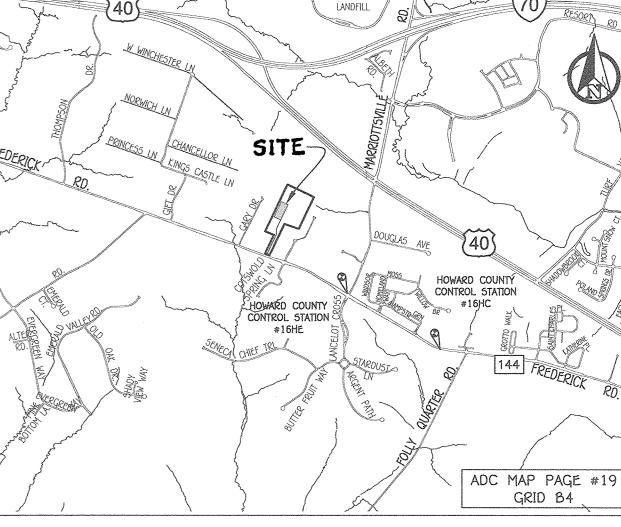
- TOTAL AREA OF THIS SUBMISSION = 1.317 AC. ±. LIMIT OF DISTURBED AREA = 38768 SQ.FT. OR 0.89 Ac. * PRESENT ZONING DESIGNATION = RC-DEO (PER 10/06/2013 COMPREHENSIVE ZONING PLAN)
- PROPOSED USE: RESIDENTIAL E. PREVIOUS HOWARD COUNTY FILES: F-14-073, PLATS 23512 THRU 23515,
- ECP-14-018 TOTAL AREA OF FLOODPLAIN LOCATED ON-SITE = 0.00 AC TOTAL AREA OF MODERATE STEEP SLOPES (15% TO 24.9%) = 0.00 AC.
- TOTAL AREA OF STEEP SLOPES (25% OR GREATER) = 0 AC. TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 AC.
- TOTAL AREA OF STREAM (INCLUDING BUFFER) = 0.00 AC. TOTAL AREA OF EXISTING FOREST = 0.00 AC
- TOTAL IMPERVIOUS AREA = 0.174 AC+
- TOTAL GREEN OPEN AREA = 1.143 AC± TOTAL AREA OF ERODIBLE SOILS = 0.00 AC. TOTAL AREA OF ROAD DEDICATION = 0.00 AC.

ſ.	COADWAY INFO	rmation ch	ART
ROAD NAME	CLASSIFICATION	DESIGN SPEED	EASEMENT WIDTH
MAPLE LEAF WAY	USE-IN-COMMON	15 MPH	36' - 40'

BENCHMARK INFORMATION

16HC - HOWARD COUNTY CONTROL STATION #10DC - HORIZONTAL - NAD '03) N 509,700,9454 E 1.341.530.0901 ELEVATION = 448.633 - VERTICAL - (NAVD '88)

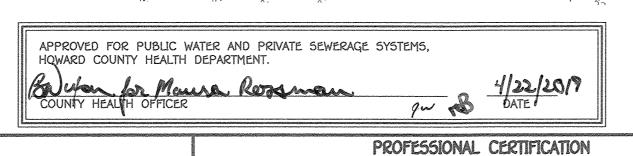
16HE- HOWARD COUNTY CONTROL STATION #18DA - HORIZONTAL - (NAD '83) £ 1.339.596.5575 ELEVATION = 537.962 - VERTICAL - (NAVD '00)



ALPHA RIDGE

<u>VICINITY MAP</u> 5CALE: 1" = 2,000"

PROPERTY OF AKRAM VAZIRI LIBER 1531, FOLIO 001 VIAX MAP 16 PARCEL 231 ZONED: RC-DEO AKRAM ALONG PROPERTY UNE	LSON	EXISTING FENCE TO REMAIN ALONG PROPERTY LINE EXISTING FENCE TO REMAIN ALONG PLAT NO. 10006 TO LED: RC-DEO
*** *** *** *** *** *** *** *** *** **		* * * * * * * * * * * * * * * * * * * *
EX. FOREST CONSERVATION EASEMENT, 1C (REFORESTATION) 1.149 ACL NON-BUILDABLE PRESERVATION A ZONES: RC-DES PARCELA W A ZONES: RC-DES A	100	See 1.317 Ac. ± 100 See 1.
DEX. PRIVATE USE—IN—COMMON DRIVEWAY ACCESS, SWM, & DRAINAGE EASEMENT FOR THE BENEFIT OF LOTS 1 THRU 6 AND NON—BUILDABLE PRESERVATION PARCEL A RECORD PLAT NO. 23512 THRU 23515		HICKORY HICKORY
507.5 501.50 1/16 H.B. MAPLE LEAF WAY	*SAFE OVERFLOW PATHWAY* O TO PEPHIN	2014 2014 2015 - 2014 2015 - 201
512 509.51 518.6 516 517 518.6 5002	518.52 5001 12' 50' 8.Rt	## C990 PVG 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PROPOSED SPLIT LES WHITE OAK RAIL FENCE (2,240 LF)	10.129.50.FT. 525.29 525.29 MAPLE VIEW PLAT NO'S 23512 THRU 23513 ZONED: RC-DEC	EX. 12 LOCUST DEX. 12 THRU 23513 DEX. TREGUNE
PI AN VIEW	528.99 NON-	I-ROOFTOP 0



Scale: 1" = 50'

PLAN VIEW

This Development Plan is approved for Soil Erosion an the HOWARD SOIL CONSERVATION DISTRICT.	d Sediment Control by
John & Relection	4/3/19
Haward SCD	Date
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING	AND ZONING
Vertile Que	5.2.19

ZONE

RC-DEO

5-2-19

SECTION

N/A

SEWER CODE

N/A

|TAX/ZONE | ELEC. DIST. |CENSUS TR.

Date

LOTS NO.

LOT 1

6030.04

AGN

MAPLE VIEW

23512

23515

XXXX

WATER CODE

Director > Department of Planning and Zoning

GRID NO.

ADDRESS CHART STREET ADDRESS 2911 MAPLE LEAF WAY

SITE DEVELOPMENT PLAN

MAPLE VIEW

LOT 1 A RESUBDIVISION OF POLANSKY SUBDIVISION, LOT 3 ZONED RC-DEO

TAX MAP No. 16 GRID No. 15 P/O PARCEL No. 88 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: MARCH 27, 2019 SHEET 1 OF 4

5DP-19-041

AND OF MARY
OF MARY
38386 CELLING
ONAL ENGLISHED
 - ** 6 8 6 8 6 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4

DATE

I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE)

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY

"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN

LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION

APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD SOIL CONSERVATION DISTRICT AND/OR MOE.

OWNERS / DEVELOPER SRIDHAR & ANITHA BANALA 10717 HILLINGDON ROAD WOODSTOCK, MARYLAND 21163

BUILDER

CARUSO HOMES

2120 BALDWIN AVENUE

SUITE 200

CROFTON, MARYLAND 21114

301-832-6426

443-829-8905

50IL PREPARATION. TOP50ILING AND SOIL AMENDMENTS (B-4-2)

A. Soil Preparation

1. Temporary Stabilization a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.

b. Apply fertilizer and lime as prescribed on the plans.

- c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means. Permanent Stabilization
- a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:

. Soil pH between 6.0 and 7.0. ii. Soluble salts less than 500 parts per million (ppm).

v. Soil contains sufficient pore space to permit adequate root penetration.

- iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable. iv. Soil contains 1.5 percent minimum organic matter by weight.
- b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions. c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then

scarified or otherwise loosened to a depth of 3 to 5 inches. d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test. e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving

the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to

3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

8. Topsoiling

1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide à suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH. materials toxic to plants, and/or unacceptable soil gradation.

2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.

3. Topsoiling is limited to areas having 2:1 or flatter slopes where:

a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.

b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.

c. The original soil to be vegetated contains material toxic to plant growth

d. The soil is so acidic that treatment with limestone is not feasible.

4. Areas having slopes steeper than 2:1 require special consideration and design.

5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:

a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 inches in diameter. b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut

c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

6. Topsoil Application

Erosion and sediment control practices must be maintained when applying topsoil.

Uniformly distribute topsoil in a 5 to 0 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.

c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

C. Soil Amendments (Fertilizer and Lime Specifications)

1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses. 2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate

approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name trade name or trademark and warranty of the producer 3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 90 to 100 percent will pass

4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or

other suitable means. 5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

The application of seed and mulch to establish vegetative cover.

To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

a. All seed must meet the requirement of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.

b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws. c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cook as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less

d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.

. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with weighted roller to provide good seed to soil contact.

b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil. i. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must

he firm after planting. ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).

. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P 0 (phosphorus), 200 pounds per acre; K 0 (potassium), 200 pounds per acre.

ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding. iii. Mix seed and fertilizer on site and seed immediately and without interruption.

iv. When hydroseeding do not incorporate seed into the soil. 1. Mulch Materials (in order of preference)

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NNIAL SQUARE OFFICE PARK – 10272 BALTIMORE NATIONAL PIKI

a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty.

Note: Use only sterile straw mulch in areas where one species of grass is desired.

b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into uniform fibrous physical

i. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry. ii. WCFM, including dye, must contain no germination or growth inhibiting factors.

iii. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the

WCFM material must not contain elements or compounds at concentration levels that will by phyto-toxic. v. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

a. Apply mulch to all seeded areas immediately after seeding.

b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre. Wood cellulose fiber used as mulch must be applied to a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of

a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the grea and erosion hazard: i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment

can operate safely. If used on sloping land, this practice should follow the contour. ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of iii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved

equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be

neavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4-15 feet wide and 300 to 3.000 feet long.

TEMPORARY SEEDING NOTES (B-4-4)

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 around cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

1. Select one or more of the species or seed mixtures listed in Table 8.1 for the appropriate Plant Hardiness Zone (from Figure 8.3), 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 put on the plan.

2. 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 8-4-3.A.1.b and maintain until the next seeding season. Temporary Seeding Summary

			9		
Hardiness Zone (from Figure B.3):6b Seed Mixture (from Table B.1):				Fertilizer Rate (10-20-20)	Lime Rațe
5pecies	Application Rate (lb/ac)	Seeding Da†es	Seeding Depths		
BARLEY	96	3/1 - 5/15,	1"	436 lb/ac	2 tons/ac
OAT5	72	0/15 - 10/15	1"	(10 lb/ 1000 sf)	(90 lb/ 1000 sf)
RYE	112		1"		

PERMANENT SEEDING NOTES (8-4-5)

A. Seed Mixtures General Use

a. Select one or more of the species or mixtures listed in Table 8.3 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 purposes such as wildlife or desthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.

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 1/2 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

Seed

DATE

a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will

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 management. 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 by weight.

ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full 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 weight.

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: 1 1/2 to 3 pounds per 1000 sauare 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 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, 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 1 1/2 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 seedings with adequate water for plant growth (1/2 to 1 inch

every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when

seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

,							
		Permanent Se	eding Sum	mary			
	e (from Figure B. (from Table B.3):			Fertiliz	er Rate (10-	20-20)	Lime Rațe
Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P ₂ O ₅	K ₂ 0	
TALL FESCUE	100	Mar. 1-May 15 Aug. 15-Oct. 15	1/4-1/2 in.	45 lbs. per dcre (1.0 lb/ 1000 sf)		(2 lb/	2 tons/dc (90 lb/
					1000 sf)	1000 sf) 1000	1000 sf) 1000 sf)
						Que de la companya del companya de la companya de la companya del companya de la companya del la companya del la companya de l	

B. Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).

a. Class of turforass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and

b. Sod must be machine cut at a uniform soil thickness to % 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

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 section.

Sod must not be harvested or transplanted when moisture content (excessively dry of wet) may adversely affect its survival. e, 5od 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.

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 contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying

d. Water the sod immediately following rolling and tamping until 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.

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

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 1/3 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.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREAS

moist soil to a depth of 4 inches. Water sod during the heat of the day to prevent wilting.

<u>Definition</u>

A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies Stockpile areas are utilized when it is necessary to salvage and store soil for later use

1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan 2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section 8-3 Land Grading 3. Runoff from the stockpile area must drain to a suitable sediment control practice.

4. Access the stockpile area from the uporade side. 5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner. 6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to 7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard 8-4-1 incremental

8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles

Maintenance The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section 8-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

HOWARD SOIL CONSERVATION DISTRICT (HSCD)

STANDARD SEDIMENT CONTROL NOTES 1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 affer the future LOD and projected areas are marked clearly in the field. A minimum of 48 hour notice to CID must be given at the following stages: Prior to the start of earth disturbance.

b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading,
c. Prior to the start of another phase of construction or opening of another grading unit,

containing contaminated material must be covered with impermeable sheeting.

Stabilization and Standard B-4-4 Temporary Stabilization

I. Prior to the removal or modification of sediment control practice

Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to avoid conflicts with this plan. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND

SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.

Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, 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 areas on the project site except for those areas under active grading. All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for topsoil (Sec. 8-4-2), permanent seeding (Sec. 8-4-5), temporary seeding (Sec. 8-4-4) and mulching (Sec. 8-4-3). Temporary stabilization with mulch alone can only be applied between the fall and spring seeding dates if the ground is frozen. Incremental stabilization (Sec. B-4-1) specifications shall be enforced in areas with

>15' of cut and/or fill. Stockpiles (Sec. 6-4-8) in excess of 20 ft. must be benched with stable outlet. All concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. 8-4-6). All sediment control structures are to remain in place, and are to be maintained in operative condition until permission for their removal has been obtained from the CID.

Total Area of Site: 1.32 Acres Area to be roofed or paved: 0.174 Acres
Area to be vegetatively stabilized: 0.74 Acres

ny sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly; and the next day after each rain event. A written report by the contractor, made available upon request, is part of every inspection and should include:

spection type (routine, pre-storm event, during rain event) Name and title of inspector Weather information (current conditions as well as time and amount of last recorded precipitation Brief description of project's status (e.g., percent complete) and/or current activities

Identification of plan deficiencies Identification of sediment controls that require maintenance identification of missing or improperly installed sediment controls

ompliance status regarding the sequence of construction and stabilization requirements Photographs

Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDE). Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be back-filled and stabilized by the end of each workday. whichever is

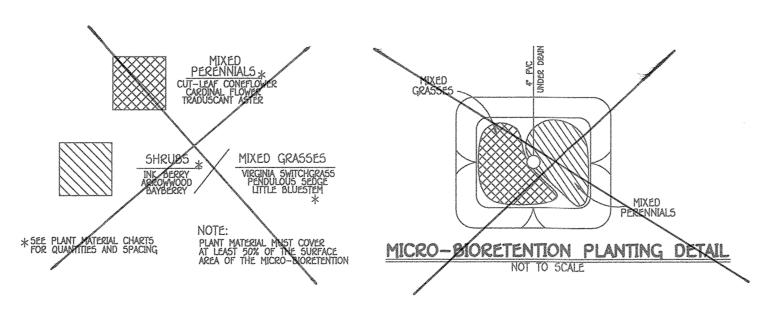
10. Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction. Minor revisions may allowed by the CID per the list of HSCD-approved field changes. Disturbance shall not occur outside the L.O.D. A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the CID. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time.

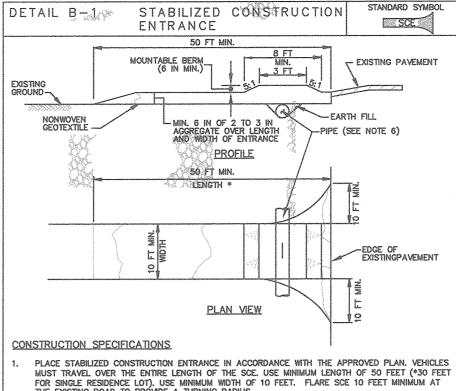
Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade.

14. All Sift Fence and Super Sift Fence shall be placed on-the-contour, and be imbricated at 25 minimum intervals, with lower ends curled uphill by 2' in elevation. 15. Stream channels must not be disturbed during the following restricted time periods (inclusive):

Use I and IP March 1 - June 15 Use III and IIIP October 1 - April 30 Use IV March 1 - May 31

16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site





FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

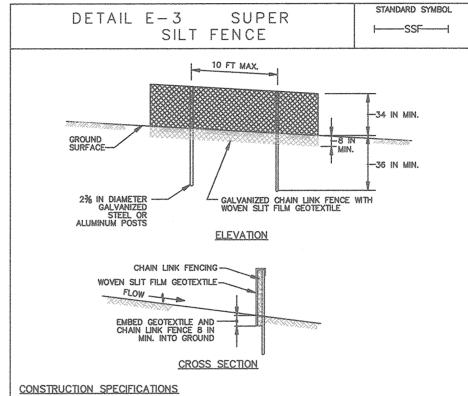
PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.

PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE. AS SPECIFIED IN SECTION H-1 MATERIALS. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAK OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION 2011



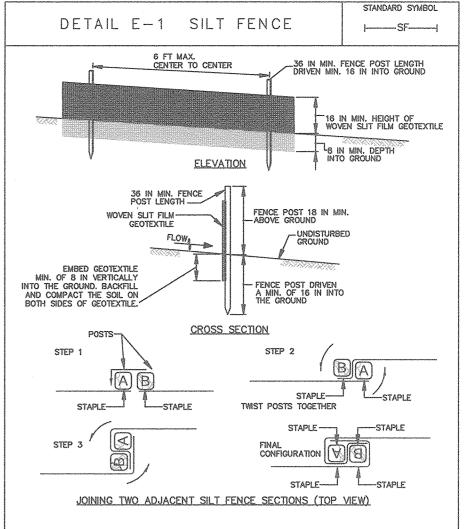
INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.

FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS. . FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.

WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.

. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.

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 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION 2011



CONSTRUCTION SPECIFICATIONS

USE WOOD POSTS 1% X 1% ± %6 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT

USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTIO

PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS

EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.

WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.

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

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

STANDARD SYMBO DETAIL B-4-6-0 CHANNEL PSSMC - * 16/ft.
(* INCLUDE SHEAR STRESS)

ISOMETRIC VIEW CONSTRUCTION SPECIFICATIONS:

USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS. USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT CHEMICALS USED IN THE LAST USE

BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SIGN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL. SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 ½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPF AT THE ROTTOM

PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATION UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL IN AN

UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINI WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.

OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER RECOMMENDATIONS, OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT. KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.

STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.

IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEYED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.

ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

SEQUENCE OF CONSTRUCTION

OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTOR. (2 WEEKS) NOTIFY "MISS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/

INSPECTION AT 410-313-1330 AT LEAST 24 HOURS BEFORE STARTING WORK. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, AND SUPER-SILT FENCE (1 DAY) INSTALL TEMPORARY SEEDING. (1 DAY) CONSTRUCT BUILDING, PORCH, AND DRIVEWAY. INSTALL PUBLIC WATER AND

PRIVATE SEPTIC SYSTEM TO HOUSE. (4 MONTHS) INSTALL ROOF LEADERS, FINE GRADE SITE, AND INSTALL MICRO-BIORETENTION FACILITY (M-6) & CONNECT ROOF LEADERS FROM HOUSE TO FACILITY. ALL FINAL GRADES AND STABILIZATION SHOULD BE COMPLETED BEFORE ANY

REMOVAL OF CONTROLS, WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED. (3 DAYS)

NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE EACH RAINFALL AND ON A DAILY BASIS.

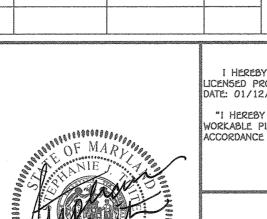
SEDIMENT & EROSION CONTROL NOTES & DETAILS

MAPLE VIEW LOT

A RESUBDIVISION OF POLANSKY SUBDIVISION, LOT 3 ZONED RC-DEO

TAX MAP No. 16 GRID No. 15 P/O PARCEL No. 88 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: MARCH 27, 2019 SHEET 2 OF 4

50P-19-041



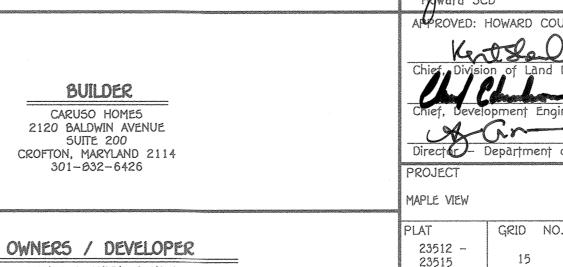
PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 30306, EXPIRATION I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND workable plan based on my personal knowledge of the site condition and that it was prepared in

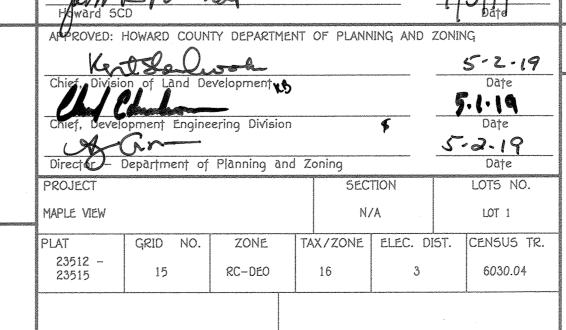
WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSIOI AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVE IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) PPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY

RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE

2120 BALDWIN AVENUE SUITE 200 CROFTON, MARYLAND 2114 301-832-6426

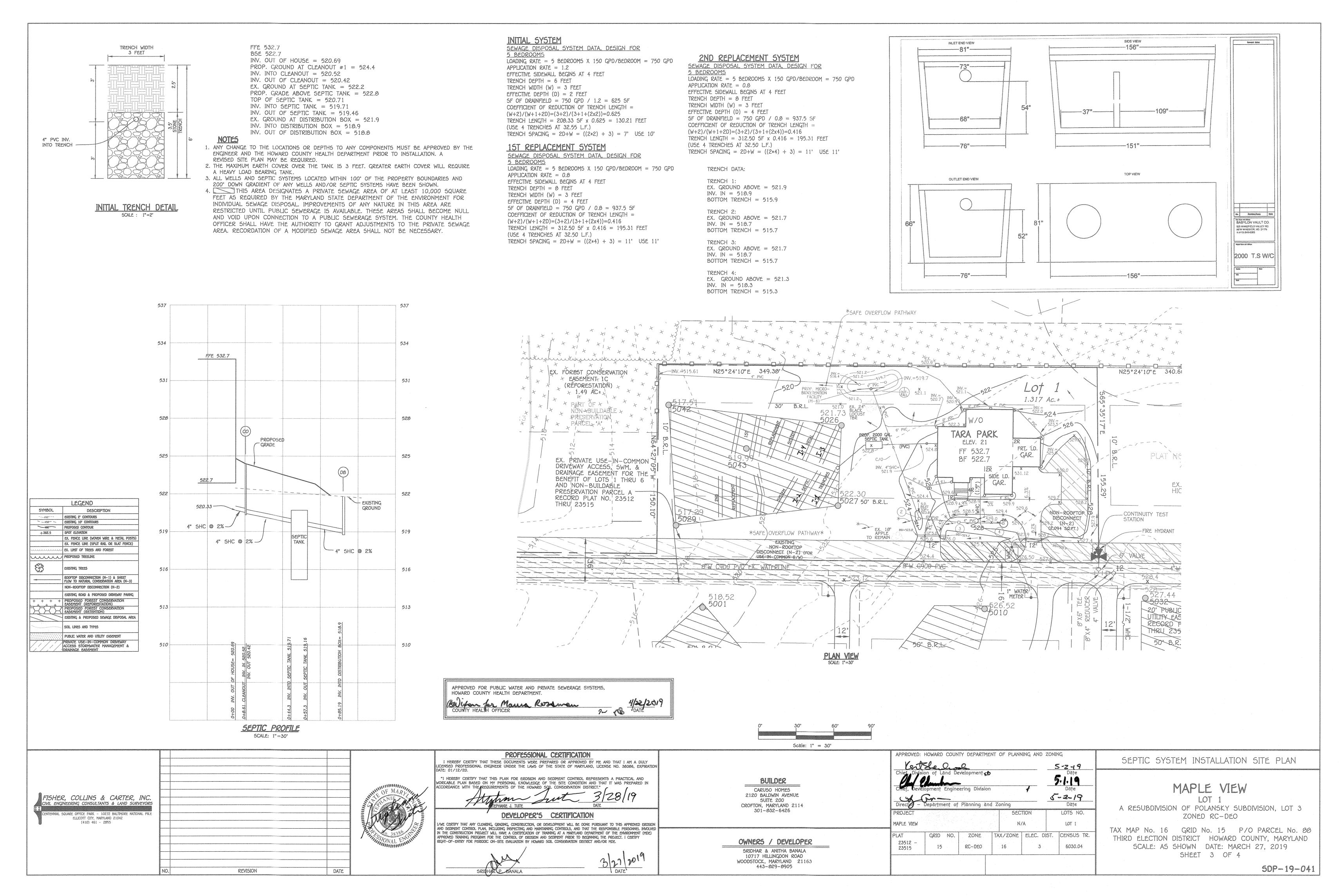
OWNERS / DEVELOPER SRIDHAR & ANITHA BANALA 10717 HILLINGDON ROAD WOODSTOCK, MARYLAND 21163 443-829-8905

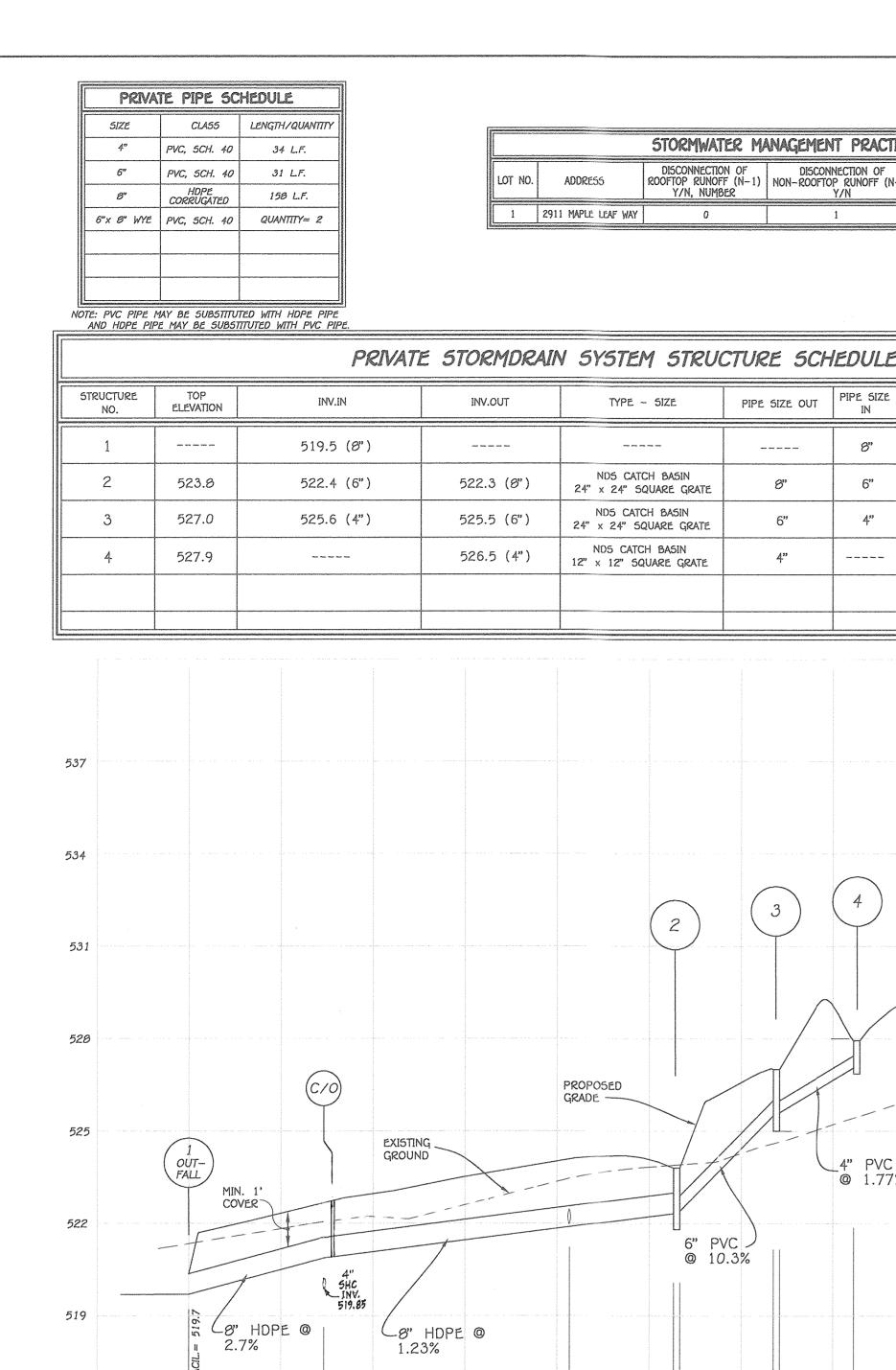




This Development Plan is approved for Soil Erosion and Sediment Control by

the HOWARD SOIL CONSERVATION DISTRICT.

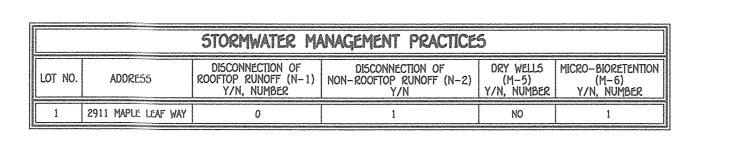




516

513

510



PIPE SIZE OUT

4" PVC @ 1.77%

NDS CATCH BASIN

24" x 24" SQUARE GRATE

NDS CATCH BASIN

24" x 24" SQUARE GRATE

NOS CATCH BASIN

12" x 12" SQUARE GRATE

PROPOSED

6" PVC / @ 10.3%

DATE

GRADE

REMARKS

END 8" HDPE @ MICRO-BIORETENTION FACILITY

STORMWATER MANAGEMENT SUMMARY					
AREA ID.	ESDV REQUIRED CU.FT.	E5Dv PROVIDED CU.FT.	REMARK5		
SITE	562	678	MICRO-BIORETENTION FACILITY (M-6) NON-ROOFTOP DISCONNECTION (N-2)		
TOTAL	562	678			

TARA PARK

PROP. ROOF

AREA=3791 5.F.

HOUSE TEMPLATE &

DRAINAGE AREA FOR HOUSE

(TO MICRO-BIORETENTION FACILITY)

5CALE: 1"=30'

PROP. ROOF AREA=3790 S.F. (0.087 AC.)

> NON-ROOFTOP DISCONNECT

(N-2)

(F-14-073)

DRAINAGE AREA MAP

MICRO-BIORETENTION FACILITY

SCALE: 1"=30"

OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY.

PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.

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

B. 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 WIRES. C. 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

D. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE

3/27/2019

DATE

(0.087 AC.)

GAR.

A PAVED AREA=0.014 AC.

GRASS AREA=0.016 AC

B PAVED AREA=0.009 AC. GRASS AREA=0.008 AC.

© PAVED AREA=0.006 AC. GRASS AREA=0.005 AC.

TOTALS FOR AREAS (A) (B) & (C)

PAVED AREA=0.029 AC.

GRASS AREA=0.029 AC.

B 0.0328

(1431 5Q. FT.)

(PROP. DRIVEWAY

NON-ROOFTOR

Q15CONNECT

GROSS AREA = 1.32 ACRES LOD = 0.89 ACRES

RCN = 55 TARGET Pe = 1"

NOTE: AREAS

PROPOSED MICRO-

TOTAL AREA TO MICRO-BIORETENTION

(0.145 AC.)

522

519

516

513

510

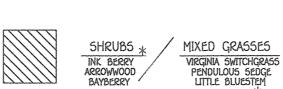
BIORETENTION FACILITY.

FACILITY=6316.2 5Q. FT.

(A) (B) & (C) AND PROPOSED

HOUSE, DRAIN TO PROPOSED

*5EE PLANT MATERIAL CHARTS FOR QUANTITIES AND SPACING



PLANT MATERIAL MUST COVER

AT LEAST 50% OF THE SURFACE AREA OF THE MICRO-BIORETENTION



NOTE: SOIL PROFILES TAKEN FROM PERC TEST RESULTS

DEPARTMENT DATED JULY 25, 2012. PER

LETTER, "TYPICALLY, SOIL PROFILES ARE SANDY."

ISSUED BY HOWARD COUNTY HEALTH

SLOPE VARIES 5% SLOPE max. ON-SITE P-1 PAVING SECTION-

EQUAL TO WIDTH OF PAVING

(DISCONNECTION AREA)

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2) . MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

TYPICAL DRIVEWAY SECTION FOR NON-ROOFTOP DISCONNECT CREDIT

BROWN-YELLOW LOAMY SAND MICACEOUS MICRO-BIORETENTION FACILITY PLANTING PERC 5ITE #5026 QUANTITY NAME MAXIMUM SPACING (FT.) (LOT 1) STORMWATER 1 FT. PERENNIALS MANAGEMEN BORING INFO 2 FT.

5HRUB5 & GRASSES MICRO-BIORETENTION PLANTING DETAIL 5CALE: 1"=20" STORMWATER MANAGEMENT NOTES EFFECTIVE MAY 4, 2010.

1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, 2. MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.

3. PART OF THE PROPOSED DRIVEWAY IS BEING TREATED BY NON-ROOFTOP DISCONNECTION (N-2) AND THE REMAINDER IS AND THE PROPOSED HOUSE ROOF AREA IS BEING CONVEYED TO THE MICRO-BIORETENTION FACILITY (M-6).

4. FINAL GRADING IS SHOWN ON THIS SITE DEVELOPMENT PLAN.

PROPOSED GRADE -FXISTING PROP. MICRO-GROUND T BIORETENTION FACILITY (M-6)516 4" PVC - (PERFORATED) @ 0.50% @ 0% 513 513 510 MICRO-BIORETENTION PROFILE 5CALE: HORIZ: 1"=30' VERT: 1"=3'

4" PVC

PONDING GRATE CAP PROVIDE 50D-ABOVE MULCH SPILLWAY (WEIR) TO PROVIDE MIN. 3" 3" MULCH LAYER -FREEBOARD PROVIDE FILTER FABRIC DISTRIBUTION 18" PLANTING SOIL (SIDES ONLY) 3" PEA GRAVEL LAYER (1/8" - 3/8" STONE) 4" #57 WASHED STONE 4" PERF. OVER DRAIN TO STONE -RESERVOIR THROUGH STONE RESERVOIR TO BE 15" #57 WASHED STONE-- (SEE PLANS). WRAPPED WITH 1/4" TO PROVIDE THE MESH (4x4) OR 25% ESDV REQ. SMALLER GALVANIZED HARDWARE CLOTH MICRO BIO-RETENTION SECTION

WITH SPILLWAY OVERFLOW

NO SCALE

5CALE: 1" = 20'

T.P.X (XIA.7)

MICRO-BIORETENTION GRADING DETAIL

4" DOME GRATE CAP

MICRO-BIORETENTION DETAIL 5CALE: 1"=20"

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY ICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION

PER MONTH AND AFTER EACH HEAVY STORM.

RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE

OWNERS / DEVELOPER SRIDHAR & ANITHA BANALA 10717 HILLINGDON ROAD WOODSTOCK, MARYLAND 21163 443-829-8905 Kent Le Curch 5-2-19 9.1.19 5-2-19 Department of Planning and Zoning Date LOTS NO. SECTION

N/A LOT 1 MAPLE VIEW TAX/ZONE | ELEC. DIST. | CENSUS TR. GRID NO. ZONE 23512 RC-DEO 6030.04 23515

his Development Plan is approved for Soil Elosjon and Sediment Control by

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

the HOWARD SOIL CONSERVATION DISTRICT

STORMDRAIN PROFILES & DETAILS AND STORMWATER MANAGEMENT DETAILS

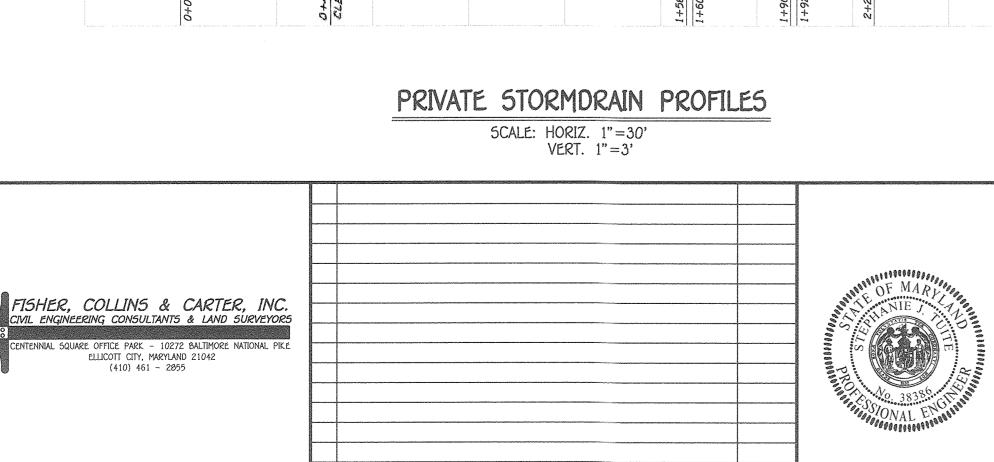
MAPLE VIEW

LOT A RESUBDIVISION OF POLANSKY SUBDIVISION, LOT 3 ZONED RC-DEO

TAX MAP No. 16 GRID No. 15 P/O PARCEL No. 88 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: MARCH 27, 2019 SHEET 4 OF 4

5DP-19-041

521.1



REVISION

INV.OUT

"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVE IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY

BUILDER

CARUSO HOMES 2120 BALDWIN AVENUE

SUITE 200

301-832-6426

CROFTON, MARYLAND 2114