

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	REVISED SUPPLEMENTAL LANDSCAPE & FOREST CONSERVATION PLAN
3	STORMWATER MANAGEMENT DETAILS & NOTES
4	GRADING AND SEDIMENT/EROSION CONTROL PLAN FOR USE-IN-COMMON DRIVE FOR LOTS 1 THRU 4
5	SEDIMENT/EROSION CONTROL DETAILS AND NOTES FOR USE-IN-COMMON DRIVE FOR LOTS 1 THRU 4.

SOILS LEGEND				
SOIL	NAME	CLASS	K FACTOR	
BeB	Benevola silt loam, 3 to 8 percent slopes	B	0.28	
BeC	Benevola silt loam, 8 to 15 percent slopes	B	0.28	
GbB	Gladstone loam, 3 to 8 percent slopes	B	0.20	
GbC	Gladstone loam, 8 to 15 percent slopes	B	0.20	
GmA	Glenville silt loam, 0 to 3 percent slopes	C	0.37	
GmC	Glenville silt loam, 8 to 15 percent slopes	C	0.37	
MaD	Manor loam, 15 to 25 percent slopes	B	0.24	
MgD	Manor-Bannertown sandy loams, 15 to 25 percent slopes, rocky	B	0.24	
WhB	Wiltshire silt loam, 3 to 8 percent slopes	C	0.24	

DESIGN NARRATIVE

Introduction:
This report will demonstrate how the criteria set forth in the Maryland Stormwater Design Manual, Volumes I and II (effective October 2000, revised May 2005) will be satisfied on this project. The goal of creating hydrology similar to that of "Woods in Good Condition" will be accomplished through the use of the practices contained within Chapter 5 of said manual. The achievement of this goal will remove the requirement of providing Channel Protection Volume.

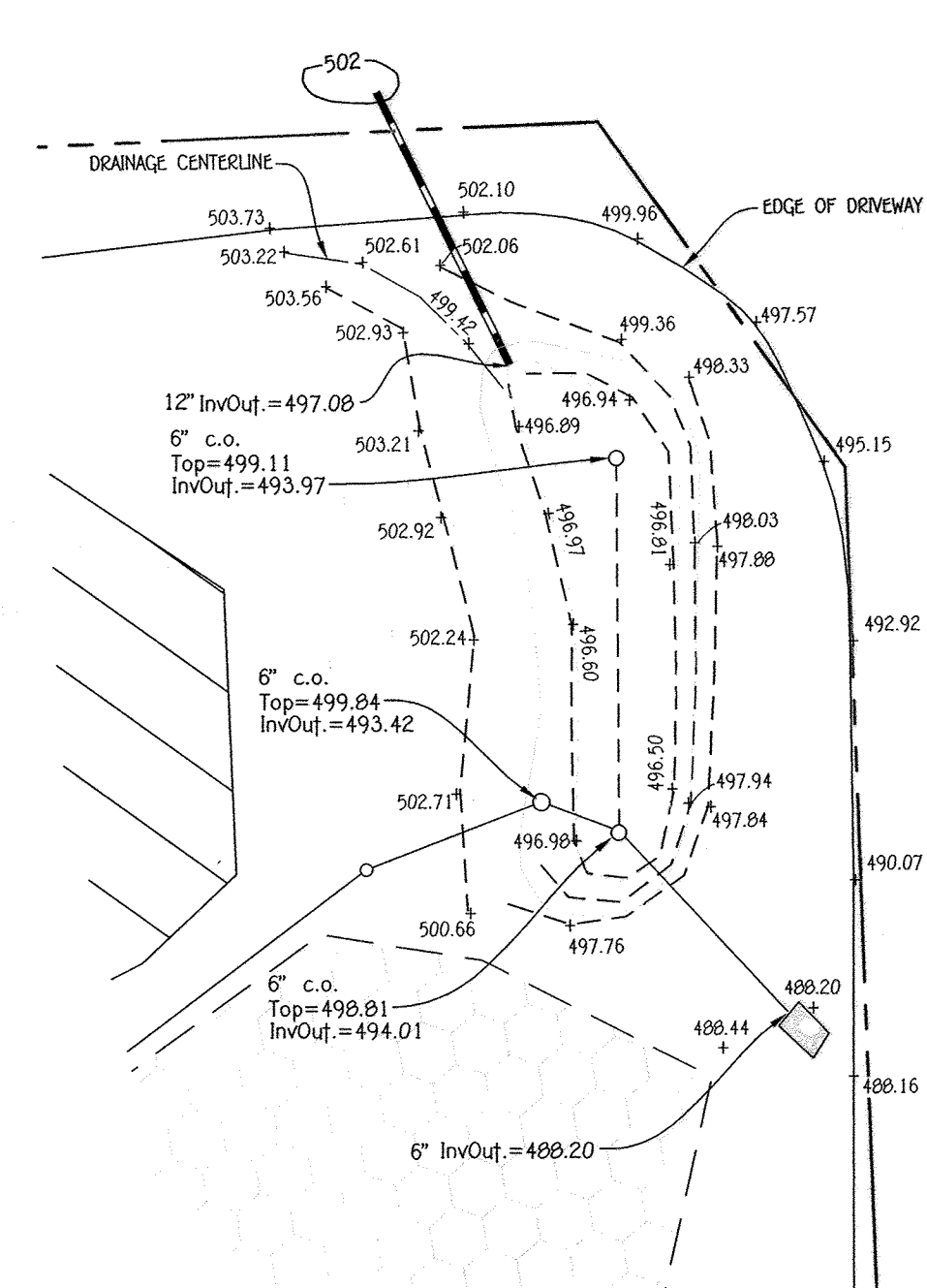
General Site Conditions:
Myers Property is zoned RC-DEO and is located on Tax Map 10, Grid 22, Parcel No. 32 of the Howard County, Maryland Tax Map Database System. The property consists of four proposed buildable lots that combine to create a site of approximately 16.26 acres. Proposed lots will be served by private well and septic systems. The property is located in the Marriottsville area of Howard County in the watersheds of North & South Branches of the Patuxent River (02130906 & 02130908). This property is rectangular in shape and has a ridge in the upper third of the property with the site sloping mostly to the west to Marriottsville Road then to the South Branch of the Patuxent River and the remainder of the property sloping to the east toward adjacent properties then to an unnamed tributary of the North Branch of the Patuxent River. The main existing house and several accessory structures (some of which are to be removed), located on the ridge of the property, are accessed by an existing driveway that enters directly onto Marriottsville Road. There is also an abandoned house and shed that are to be removed. Thirty (30) specimen trees exist on-site, which are spread throughout the four lots, of which twenty six (26) are proposed to be retained. Also, according to a field inspection conducted by Eco-Science Professionals (ESP) dated October 31, 2013, no wetlands are present on-site. The Web Soil Survey shows soils on the site consist of Benevola silt loam (BeB), Gladstone loam (GbB, GbC), Manor loam (MaD), and Manor-Bannertown sandy loams (MgD) type "B" soils. The portion of the property that slopes to the west drains to an existing ditch along the east side of Marriottsville Road, which is where a portion of site runoff will be directed. The remainder will drain onto existing grade and then eventually to a stream.

- Natural Resource Protection:**
Environmentally sensitive areas (steep slopes) exist on-site. To ensure the protection of natural resources located on this site, all boundaries or buffers will be honored by locating improvements away from these areas which will be located within forest conservation easements.
- Maintenance of Natural Flow Patterns:**
It is the intent of the proposed design to discharge runoff similar to the characteristics and direction of this site prior to any of the proposed improvements.
- Reduction of Impervious Areas through better site design, alternative surfaces and Nonstructural Practices:**
The design of this project utilizes an use-in-common driveway, allowing a reduction in the necessary paving needed to access the proposed buildings. Non-Structural practices as permitted in Chapter 5, four (4) Micro-Bioretentation Areas (M-6) will be used to address ESD to the MEP requirements. Due to drainage area in excess of 0.5 acre, one (1) Bioretention Area (F-6) has been proposed as well.

IV. Integration of Erosion and Sediment Controls into Stormwater Strategy:
Since most small drainage areas are proposed under this plan, silt fence, silt fence, and erosion control matting will be utilized for erosion and sediment control. There is no direct discharge of runoff to a stream. All site runoff will discharge to existing ground prior to entering the existing off-site drainage system and eventually to the Patuxent River. No drainage easements will be required. It is anticipated that all cut will be utilized on-site for construction at time of Grading Plan.

V. Implementation of ESD Planning Techniques and Practices to the Maximum Extent Practicable (MEP):
The full required ESD volume is being provided.

VI. Request for a Design Manual Waiver:
No waivers related to stormwater management are being requested in this project.

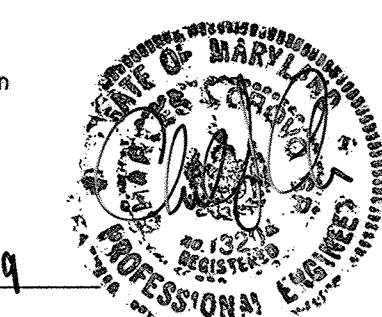


**Micro Bio #2 (M-6)
A5-BUILT**
SCALE: 1" = 30'

A5-BUILT CERTIFICATION

I hereby certify, by my seal, that the facilities shown on this plan were constructed as shown on this "A5-BUILT" plan meet the approved plans and specifications.

Charles J. Croft, Sr. P.E. #13204
Date: 8/19/14



SITE ANALYSIS DATA CHART

- A. TOTAL AREA OF THIS SUBMISSION = 16.286 AC.
- B. LIMIT OF DISTURBED AREA = 3.17 AC.
- C. PRESENT ZONING DESIGNATION = RC-DEO (PER 10/06/2013 COMPREHENSIVE ZONING PLAN)
- D. PROPOSED USE: RESIDENTIAL
- E. PREVIOUS HOWARD COUNTY FILES: ECP-14-032; WP-14-035; WP-15-030.
- F. TOTAL AREA OF FLOODPLAIN LOCATED ON SITE = 0.00 AC.
- G. TOTAL AREA OF SLOPES IN EXCESS OF 15% = 4.80 AC. (3.68 AC. 15% TO 25%, 1.12 AC. 25% OR GREATER)
- H. TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 AC.
- I. TOTAL AREA OF STREAM (INCLUDING BUFFER) = 0.00 AC.
- J. TOTAL AREA OF EXISTING FOREST = 7.70 AC.
- K. TOTAL AREA OF FOREST TO BE RETAINED = 4.01 AC.
- L. TOTAL AREA OF LOGS = 15.11 AC.
- M. TOTAL AREA OF ROAD RIGHT OF WAY DEDICATION = 1.17 AC.
- N. TOTAL GREEN OPEN AREA = 15.06 AC. (TOTAL AREA LESS IMPERVIOUS AREA & ROW DEDICATION)
- O. TOTAL IMPERVIOUS AREA = 1.28 AC. (INCLUDING EXISTING STRUCTURES)
- P. TOTAL AREA OF ERODIBLE SOILS = 0.00 AC.

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #10HA - HORIZONTAL - NAD '83
(LOCATED MARRIOTTVILLE ROAD, JUST NORTH OF RT-99)
N 601,206.6369
E 1,340,912.3072
ELEVATION = 483.88 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #10HS - HORIZONTAL - (NAD '83)
(LOCATED RT-99 1/4 MILE WEST OF MARRIOTTVILLE ROAD)
N 601,201.6535
E 1,328,637.6516
ELEVATION = 522.62 - VERTICAL - (NAVD '88)

- 46. ON SEPTEMBER 18, 2014 THE PLANNING DIRECTOR APPROVED A WAIVER (WP-15-030) TO SECTION 16.120(B)(4)(I) AND TO SECTION 16.120(B)(4)(III):
 - A) SECTION 16.120(B)(4)(I) WHICH STATES THAT RESIDENTIAL LOTS SHALL BE USABLE IN TERMS OF REGULAR, GENERALLY RECTANGULAR LOT SHAPE.
 - B) SECTION 16.120(B)(4)(III) WHICH PROHIBITS FOREST CONSERVATION EASEMENTS ON LOTS LESS THAN 10 ACRES IN SIZE.

- APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
- FOREST CONSERVATION SIGNS MUST BE POSTED ALONG THE PERIMETER OF THE FOREST CONSERVATION EASEMENT WITHIN THIRTY (30) DAYS AFTER RECORDATION DATE OF THE FINAL PLAN, F-14-088.
 - A FOREST CONSERVATION EASEMENT DOCUMENT AND COPY OF THE RECORDED SUBDIVISION PLAN MUST BE PRESENTED TO THE POTENTIAL BUYERS PRIOR TO THEIR PURCHASING LOT 3 OR LOT 4 EXPLAINING THE PROTECTION AND USE PROVISIONS FOR FOREST CONSERVATION EASEMENTS.
 - COMPLIANCE WITH ALL SUBDIVISION REVIEW COMMITTEE COMMENTS FOR F-14-088.
 - ON THE SUBDIVISION PLANS, PROVIDE A BRIEF DESCRIPTION OF WAIVER PETITION, WP-15-030, AS A GENERAL NOTE TO INCLUDE REQUESTS, SECTIONS OF THE REGULATIONS, ACTION, AND DATE.

THE PURPOSE OF THIS REVISED SUPPLEMENTAL, LANDSCAPE & FOREST CONSERVATION PLAN IS TO SHOW CONSTRUCTION OF THE USE-IN-COMMON DRIVEWAY AND ASSOCIATED SWM FACILITIES, SEDIMENT CONTROL AND SEDIMENT CONTROL NOTES AND DETAILS.

REVISED SUPPLEMENTAL, LANDSCAPE & FOREST CONSERVATION PLAN

MYERS PROPERTY

LOTS 1 THRU 4

TAX MAP No. 10 GRID No. 18 PARCEL NO. 32

THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

GENERAL NOTES

- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF A MINIMUM OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWERAGE EASEMENT. RECORDED OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL.
- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 10/06/13 COMPREHENSIVE ZONING PLAN.
- COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 10HA AND NO. 10HS, ADJUSTMENT OF JANUARY, 2012.
STA. 10HA N 601206.633 E 1340912.313
STA. 10HS N 601201.861 E 1339637.850
- THIS PLAN IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT OCTOBER, 2013 BY FISHER, COLLINS & CARTER, INC.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY FISHER, COLLINS & CARTER, INC. DATED NOVEMBER, 2013 AND SUPPLEMENTED WITH HOWARD COUNTY G.S. TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL.
- B.R.L. DENOTES BUILDING RESTRICTION LINE.
• DENOTES IRON PIN SET CAPPED "F.C.C. 106".
- DENOTES IRON PIPE OR IRON BAR FOUND.
- DENOTES ANGLUAR CHANGE OF BOUNDARY OR RIGHTS-OF-WAY.
- DENOTES CONCRETE MONUMENT SET WITH ALUMINUM PLATE "F.C.C. 106".
- DENOTES CONCRETE MONUMENT OR STONE FOUND.
- DENOTES CONCRETE MONUMENT SET WITH IRON PIPE OR IRON BAR FOUND.
- PIPESTEM(S), AND ROAD RIGHT-OF-WAY LINE AND NOT ON TO THE PIPESTEM LOT DRIVEWAY.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS:
A) WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE);
B) SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1'-1/2" MINIMUM);
C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS;
D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING);
E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER SURFACE;
F) STRUCTURE CLEARANCES - MINIMUM 12 FEET;
G) MAINTENANCE SUFFICIENT TO ENSURE ALL WEATHER USE.
- ALL LOT AREAS ARE MORE OR LESS (±).
- THE FOREST STAND AND WETLAND DELINEATION REPORT DATED OCTOBER 31, 2013 FOR THIS PROJECT WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC.
- THE TRAFFIC STUDY DATED OCTOBER 23, 2013 FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP.
- STORMWATER MANAGEMENT WILL BE IN ACCORDANCE WITH MDC STORM DRAIN DESIGN MANUAL, VOLUMES I & II, REVISED 2009. USE OF FOUR (4) M-6 MICRO-BIO-RETENTION, ONE (1) F-6 BIO-RETENTION AND N-2 DISCONNECTION OF NON-ROOFTOP RUNOFF ARE PROPOSED FOR THIS PROJECT.
- PLAN IS SUBJECT TO PRIOR DEPARTMENT OF PLANNING AND ZONING FILE NOS. ECP-14-032, WP-14-035, WP-15-030.
- THIS SUBDIVISION IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, DEVELOPMENT OR CONSTRUCTION ON THESE LOTS OR PARCELS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF A BUILDING OR GRADING PERMIT APPLICATION.
- PRIVATE WELL AND SEPTIC SHALL BE UTILIZED WITHIN THIS DEVELOPMENT.
- THIS PROPERTY IS LOCATED OUTSIDE OF THE METROPOLITAN DISTRICT.
- USE OF FOUR (4) M-6 MICRO-BIO-RETENTION, ONE (1) F-6 BIO-RETENTION AND N-2 DISCONNECTION OF NON-ROOFTOP RUNOFF ARE PROPOSED FOR THIS PROJECT.
- NO CEMETERIES ARE LOCATED ON THIS PROPERTY.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
- DISTANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND NOT REDUCED TO NAD '83 GRID.
- NO 100 YEAR FLOODPLAIN, WETLANDS, STREAMS AND/OR THEIR BUFFERS EXIST ON-SITE.
- THERE IS AN EXISTING SHED ON LOT 2 TO REMAIN AND AN EXISTING SHED ON LOT 1 TO REMAIN. EXISTING STRUCTURES ON LOT 3 AND LOT 4 ARE TO BE REMOVED PRIOR TO FINAL PLAT SIGNATURE. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLING/STRUCTURES ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REQUIREMENTS TO BE CONSIDERED. CONSTRUCTION OF ALL STRUCTURES TO BE CONSIDERED SHALL BE NOTED ON THE ORIGINAL FINAL PLAT FOR RECORDATION AND A REMOVAL DATE FOR THE EXISTING STRUCTURES WILL BE NOTED ON THE PLAT.
- NOISE STUDY DATED NOVEMBER, 2013 WAS PREPARED BY MARS GROUP. THE UNMITIGATED 65DBA NOISE CONTOUR LINE DRAWN ON THIS PLAT IS ADVISORY AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEBRUARY, 1992 AND CANNOT BE CONSIDERED TO EXACTLY LOCATE THE 65DBA NOISE EXPOSURE. THE UNMITIGATED 65DBA NOISE CONTOUR LINE WITH ESTABLISHED BUILDINGS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
- THE PRIVATE WELL AND SEPTIC, ACCESS AND STORMWATER MANAGEMENT EASEMENT FOR THE USE AND BENEFIT OF LOTS 1 THRU 4 WILL BE RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, MARYLAND SIMULTANEOUSLY WITH THE RECORDATION OF THIS PLAT.
- A PRE-SUBMISSION COMMUNITY MEETING WAS HELD FOR THIS PROJECT ON AUGUST 7, 2013.
- ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPERS RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS UP HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
- THE FOREST CONSERVATION EASEMENT AREAS WITHIN THIS SUBDIVISION HAVE BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION ARE ALLOWED. THE FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION ACT, REVISED FEBRUARY, 1992 WILL BE FULFILLED BY ON-SITE RETENTION OF 4.01 ACRES OF FOREST AND USE OF A FOREST BANK FOR THE 1.03 ACRE REMAINING OBLIGATION SUBJECT TO NOT REQUIRED FOR RETENTION OF RESOURCES.
- PROPERTY SUBJECT TO ADVISORY COMMENTS DATED OCTOBER 3, 2013 FROM THE HISTORIC DISTRICT COMMISSION MEETING ON SEPTEMBER 12, 2013 FOR #105 MARRIOTTVILLE ROAD, HO-191.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL, A LANDSCAPE SURETY FOR 10 SHADE TREES, 21 EVERGREENS, AND 4 SHRUBS IN THE AMOUNT OF (\$6,270.00) WILL BE PROVIDED WITH THE GRADING PERMIT.
LOT SURETY: (4) SHADE TREES @ 300/SHADE TREE & (18) EVERGREENS @ 150/EVERGREEN = \$3,900.00
LOT 3 SURETY: (2) SHADE TREES @ 300/SHADE TREE & (8) EVERGREENS @ 150/EVERGREEN = \$1,200.00
LOT 4 SURETY: (3) SHADE TREES @ 300/SHADE TREE & (1) EVERGREENS @ 150/EVERGREEN & (4) SHRUBS @ 30/SHRUB = \$1,170.00
- THERE ARE 1.12 ACRES OF SLOPES OF 25 PERCENT OR GREATER LOCATED IN LOTS 3 AND 4.
- ON JANUARY 15, 2014 THE PLANNING DIRECTOR APPROVED A WAIVER (WP-14-035) TO SECTION 16.1205(A)(7) AND TO SECTION 16.144(B):
A) SECTION 16.1205(A)(7) WHICH OUTLINES THE FOREST RETENTION PRIORITIES WHEN ADHERING TO THE FOREST CONSERVATION ACT WHICH INCLUDES STATE CHAMPION TREES OR TREES 30" DIAMETER OR LARGER CANNOT BE DISTURBED WITHOUT A WAIVER. THE PROPOSED DEVELOPMENT WILL REQUIRE REMOVAL OF 5 OF THE 30 SPECIMEN TREES.
B) SECTION 16.144(B) WHICH REQUIRES THE SUBMISSION OF A PRELIMINARY EQUIVALENT SKETCH PLAN TO BEGIN THE REVIEW PROCESS, SUBJECT TO THE FOLLOWING CONDITIONS:
1) COMPLIANCE WITH ALL SUBDIVISION REVIEW COMMITTEE COMMENTS.
2) ON THE SUBDIVISION PLANS, PROVIDE A BRIEF DESCRIPTION OF WAIVER PETITION, WP-14-035, AS A GENERAL NOTE TO INCLUDE REQUESTS, SECTIONS OF THE REGULATIONS, ACTION AND DATE.
3) THE REMAINING 25 SPECIMEN TREES MUST BE SAVED AND PROTECTED DURING CONSTRUCTION ACTIVITY. TREE PROTECTION DEVICES MUST BE PROVIDED FOR THE 25 SPECIMEN TREES TO REMAIN.
4) THE APPLICANT SHALL MITIGATE THE 5 SPECIMEN TREES TO BE REMOVED AT A 1:1 TO 1 RATIO REPLACEMENT WITH LARGER 3-1/2" CALIBER NATIVE SPECIES TO BE PLANTED WITHIN OR NEAR THE FOREST CONSERVATION EASEMENT.
C) THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
D) THE CONTRACTOR SHALL NOTIFY (MISS UTILITY) AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
E) SOIL BORINGS ARE REQUIRED FOR THIS PROJECT. EXCAVATIONS TO VERIFY THE DEPTH TO ROCK AND/OR GROUNDWATER WERE CONDUCTED ON OCTOBER 17, 2013.
F) A PRIVATE ROAD SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATE.
- SUBDIVISION IS SUBJECT TO SECTION 104.04.F OF THE ZONING REGULATIONS. AT LEAST 10% OF THE DWELLING UNITS SHALL BE MODERATE INCOME HOUSING UNITS (M.I.H.U.) OR AN ALTERNATIVE COMPLIANCE WILL BE PROVIDED. THE DEVELOPER SHALL EXECUTE A M.I.H.U. AGREEMENT WITH THE DEPARTMENT OF HOUSING TO INDICATE HOW THE M.I.H.U. REQUIREMENT WILL BE MET. THE M.I.H.U. AGREEMENT AND COVENANT SHALL BE RECORDED SIMULTANEOUSLY WITH THIS PLAT IN THE LAND RECORDS OFFICE OF HOWARD COUNTY, MARYLAND. THIS DEVELOPMENT WILL MEET M.I.H.U. ALTERNATIVE COMPLIANCE BY A PAYMENT OF A FEE-IN-LIEU TO THE DEPARTMENT OF HOUSING FOR EACH REQUIRED UNIT.
MODERATE INCOME HOUSING UNIT (M.I.H.U.) TABULATION:
a. M.I.H.U. REQUIRED = (3 LOTS X 10%) = 0.3 M.I.H.U.
b. M.I.H.U. PROPOSED = DEVELOPER WILL PURSUE ALTERNATIVE COMPLIANCE BY PAYING A FEE-IN-LIEU TO THE HOWARD COUNTY HOUSING DEPARTMENT FOR THE UNITS REQUIRED BY THE DEVELOPMENT.
c. AN EXECUTED M.I.H.U. AGREEMENT WITH THE HOWARD COUNTY HOUSING DEPARTMENT HAS BEEN COMPLETED.
THE SUBJECT AREA IS LOCATED IN THE GROWTH AREA III AND IS CONSIDERED GRANDFATHERED TO 88-236 BECAUSE THE APPLICANT SUBMITTED A PERCOLATION TEST APPLICATION PRIOR TO JULY 1, 2012. THIS PLAN IS GRANDFATHERED TO 88-236 AND PLANNING BOARD REQUIREMENTS, TOO.
A FEE-IN-LIEU OF OPEN SPACE IN THE AMOUNT OF \$4,500 (3 LOTS AT \$1,500 EACH) WILL BE REQUIRED SINCE THIS IS A NON-CLUSTER SUBDIVISION.
- MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS ACCEPTED OUR RECOMMENDATION TO APPROVE THE FOLLOWING VARIANCE REQUEST UNDER THE CODE OF MARYLAND REGULATIONS 26.04.02.05(C) TO ALLOW THE PROPOSED SEWAGE DISPOSAL SYSTEM SERVING LOTS 1 AND 2 ON THE MYERS PROPERTY (1805 MARRIOTTVILLE ROAD) TO BE LOCATED AT LEAST 200' UPGRADIUM FROM THE EXISTING PRIVATE WATER WELLS LOCATED AT 1841 MARRIOTTVILLE ROAD AND 1861 MARRIOTTVILLE ROAD. DUE TO THE LANDSCAPE POSITION OF THE SEWAGE AREAS AND WELLS, THE REQUEST WAS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:
(1) AN ADVANCED PRETREATMENT SYSTEM WHICH UTILIZES BEST AVAILABLE TECHNOLOGY TO PREFORM NITROGEN REDUCTION MUST BE INSTALLED TO PREVENT NITROGEN LOADS TO EXISTING WELLS (IF ANY). IN ADDITION, ONGOING MAINTENANCE IS REQUIRED.
(2) AN AGREEMENT ACKNOWLEDGING THE NEED FOR MAINTAINING A SERVICE CONTRACT WITH AN AUTHORIZED SERVICE PROVIDER MUST BE RECORDED IN THE LAND RECORDS OFFICE OF HOWARD COUNTY FOR EACH OF THESE LOTS WITHIN 30 DAYS AFTER PLAT RECORDATION. BUILDING PERMIT APPLICATIONS FOR THE RESPECTIVE LOTS WILL NOT BE APPROVED UNTIL SUCH AN AGREEMENT IS RECORDED. BEFORE A SEPTIC SYSTEM INSTALLATION PERMIT IS ISSUED FOR THE ADVANCED PRE-TREATMENT SYSTEM, A SITE PLAN MUST BE SUBMITTED WITH ALL NECESSARY DETAILS FOR INSTALLATION OF THE SYSTEM.
(3) THE WELL ON LOT 1 (PREVIOUS LOTS 1/2 DOES NOT EXIST) MUST BE CONSTRUCTED USING A STEEL WELL CASING, WHICH MUST BE INSTALLED TO A MINIMUM DEPTH OF 50 FEET BELOW GROUND SURFACE OR 10 FEET INTO THE COMPACTED BEDROCK, WHICHEVER IS DEEPER.
(4) A LOW PRESSURE DOSING SYSTEM WILL BE REQUIRED FOR THE SEWAGE DISPOSAL SYSTEM ON LOT 1 (PREVIOUS LOT 1/2 DOES NOT EXIST).
(5) THE EXISTING WATER VAULT MUST BE ABANDONED.

I:\2013\12027.dwg Support Plan\12027 Support Plan\3acads.dwg, 10/15/2014 3:16:40 PM, 11

NO.	REVISE SHEET NUMBER AND SHEET INDEX CHART	DATE	BY
1	REVISE SHEET NUMBER AND SHEET INDEX CHART	9/15/13	X
	REVISION	DATE	

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: 01/12/2016.

Signature *Date 10/15/14*
Signature of Professional Engineer DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Kate Seider 12-18-14
Chief, Division of Land Development Date

David... 11-13-14
Chief, Development Engineering Division NY Date

PROJECT: MYERS PROPERTY, LOTS 1 THRU 4

SECTIONS: PARCEL NO. 32

DEED 1009/700 BLOCK NO. 22 ZONE RC-DEO TAX/ZONE 10 ELEC. DIST. THIRD CENSUS TR. 6030.00

OWNERS / DEVELOPER
TRIPLE R VENTURES, LLC
C/O LAND DESIGN & DEVELOPMENT, INC.
5300 DORSEY HALL DRIVE
ELLICOTT CITY, MARYLAND 21042
CONTACT: JOSEPH RUTTER 443-367-1422

TITLE SHEET

MYERS PROPERTY,
LOTS 1 THRU 4
ZONED RC-DEO
TAX MAP No. 10 GRID No. 22 PARCEL No. 32
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: A5 SHOWN DATE: AUGUST, 2014
SHEET 1 OF 5

F-14-086

AS-BUILT

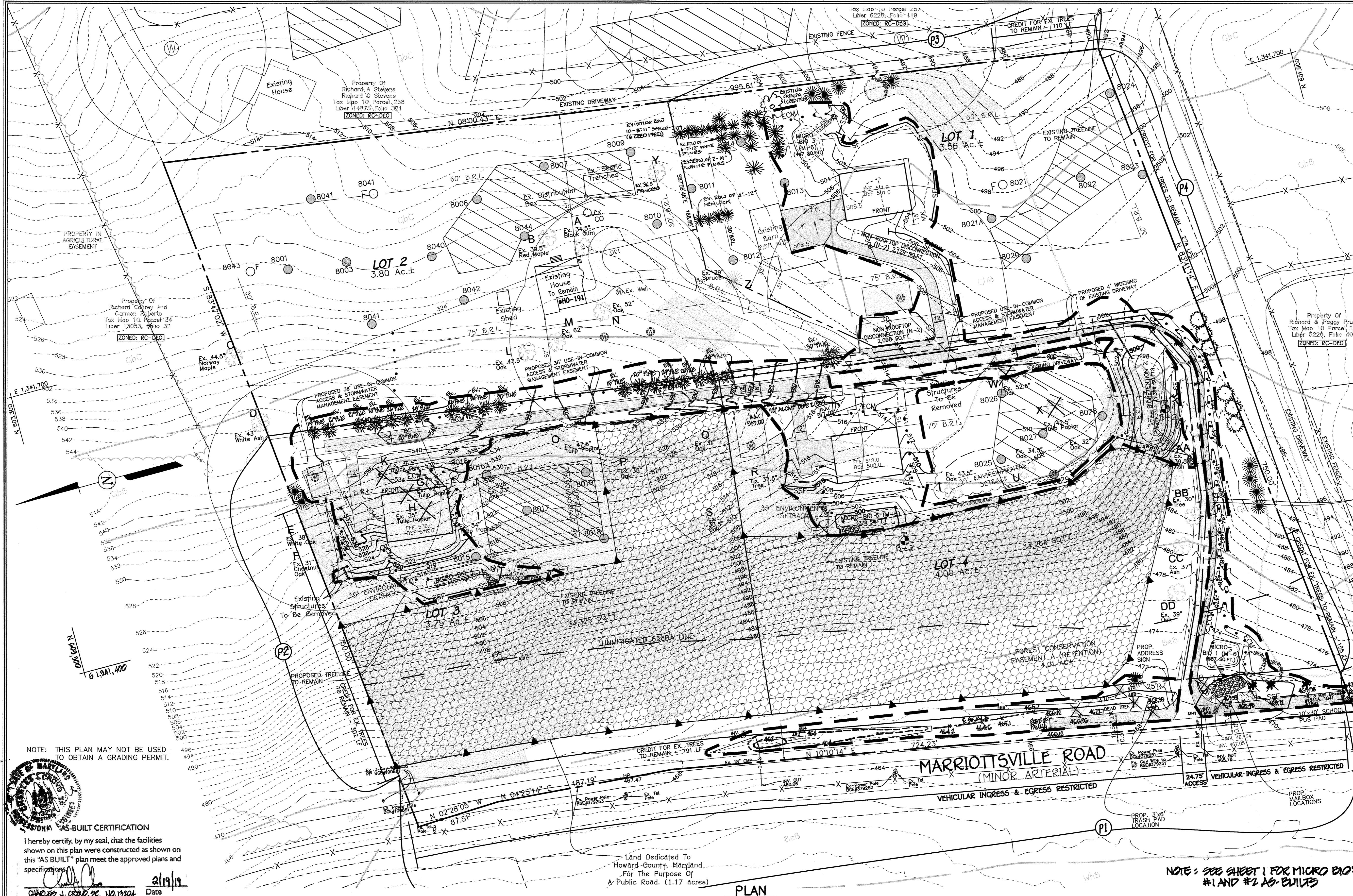
Minimum Lot Size Tabulation			
Lot No.	Gross Area	Pipestem Area	Minimum Lot Size
2	165,460 Sq. Ft.±	4,184 Sq. Ft.±	161,284 Sq. Ft.±
3	163,459 Sq. Ft.±	5,123 Sq. Ft.±	158,336 Sq. Ft.±

SPECIMEN TREE TABLE			
KEY	SPECIES	SIZE (DBH)	COMMENTS
A	BLACK GUM	33.5"	GOOD CONDITION
B	RED MAPLE	39.5"	FAIR, LIMB DIEBACK
C	NORWAY MAPLE	44.5"	GOOD CONDITION
D	WHITE ASH	43"	FAIR, LIMB DIEBACK
E	WHITE OAK	38"	GOOD CONDITION
F	CHESTNUT OAK	31"	GOOD CONDITION
G*	TULIP POPLAR	42"	GOOD CONDITION (TBR)
H*	TULIP POPLAR	35"	GOOD CONDITION (TBR)
I	TULIP POPLAR	34"	GOOD CONDITION
J	WHITE ASH	33"	GOOD CONDITION
K*	BLACK OAK	36.5"	FAIR, BROKEN LIMBS, VINE COVERAGE (TBR)
L	WHITE OAK	47.5"	GOOD CONDITION
M	WHITE OAK	62"	GOOD CONDITION
N	WHITE OAK	52"	GOOD CONDITION
O	TULIP POPLAR	47.5"	GOOD CONDITION
P	WHITE OAK	35"	GOOD CONDITION
Q	RED OAK	31"	GOOD CONDITION
R	BLACK GUM	37.5"	GOOD CONDITION
S	BLACK OAK	33.5"	GOOD CONDITION
T	WHITE OAK	43.5"	GOOD CONDITION
U	BLACK OAK	34.5"	GOOD CONDITION
V	WHITE OAK	32"	GOOD CONDITION
W*	WHITE OAK	52.5"	FAIR, TRUNK ROT NOTED (TBR)
X*	TULIP POPLAR	42.5"	POOR, BROKEN AND ROTTEN LIMBS (TBR)
Y	PRINCESS TREE	36.5"	GOOD CONDITION
Z	NORWAY SPRUCE	39"	GOOD CONDITION
AA	WHITE ASH	39.5"	POOR, DIEBACK NOTED
BB	BLACK GUM	30"	GOOD CONDITION
CC	WHITE ASH	37"	POOR, MAIN STEM SPLIT
DD	WHITE OAK	39"	FAIR, POOR CROWN SHAPE

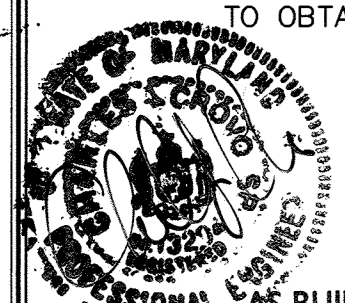
NOTE: CRITICAL ROOT ZONE SHALL BE 1.5:1" DBH
* TBR = TO BE REMOVED

LEGEND

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- DENOTES PROPOSED HOUSE
- ▨ DENOTES 25% AND GREATER SLOPE
- ▧ DENOTES 15% TO 25% SLOPES
- ⊙ EXISTING WELL
- ⊙ PROPOSED WELL
- ⊗ EXISTING TREES TO BE REMOVED



NOTE: THIS PLAN MAY NOT BE USED TO OBTAIN A GRADING PERMIT.



AS-BUILT CERTIFICATION
I hereby certify, by my seal, that the facilities shown on this plan were constructed as shown on this "AS BUILT" plan meet the approved plans and specifications.
Date: 8/19/14
Christopher J. Crowe, P.E. No. 19204

Land Dedicated To Howard County, Maryland For the Purpose of A Public Road. (1.17 acres)

PLAN
SCALE: 1" = 50'

NOTE: SEE SHEET 1 FOR MICRO BIO'S #1 AND #2 AS-BUILTS

NOTE: ONLY SHEET NO. 1 IS TO BE USED FOR SITE GRADING AND SEDIMENT CONTROL.

NO.	REVISION	DATE	X
3	Revised 4" Underdrain (Lot 4) Outfall	9-29-11	
2	REVISED DRIVEWAY GRADING AND STORM DRAIN	6/7/10	
1	REVISE PERIMETER, LANDSCAPING AND SHEET NUMBER	1/15/10	

Developer's/Builder's Certificate
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF NOTICE OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Developer/Builder: *Paul Ray Jr.* 10/14/14
Date: 10/14/14

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. 38386, EXPIRATION DATE: 01/12/2016.
Signature of Professional Engineer: *Stephanie Jente* 10/15/14
Date: 10/15/14

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development: *Kathleen* 12-18-14
Date: 12-18-14
Chief, Development Engineering Division: *Chris* 11-12-14
Date: 11-12-14

OWNERS / DEVELOPER
TRIPLE R VENTURES, LLC
C/O LAND DESIGN & DEVELOPMENT, INC.
5300 DORSEY HALL DRIVE
ELLICOTT CITY, MARYLAND 21042
CONTACT: JOSEPH RUTTER 443-367-1422

DEED	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
1009/700	22	RC-DEO	10	THIRD	6030.00

REVISED SUPPLEMENTAL, LANDSCAPE & FOREST CONSERVATION PLAN

MYERS PROPERTY, LOTS 1 THRU 4
ZONED RC-DEO
TAX MAP No. 10 GRID No. 22 PARCEL No. 32
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: AUGUST, 2014
SHEET 2 OF 5

PLANTING / SOIL SPECIFICATIONS

- 1. Planting of Nursery Stock Shall Take Place Between March 15th and April 30th or September 15th and November 15th.
2. A Twelve (12) inch Layer of Topsoil Shall Be Spread Over All Restoration Areas Impacted by Site Grading to Assure a Suitable Planting Area...

FOREST CONSERVATION WORKSHEET VERSION 1.0

Table with columns for BASIC SITE DATA, INFORMATION FOR CALCULATIONS, BREAK EVEN POINT, PROPOSED FOREST CLEARING, and PLANTING REQUIREMENTS. Includes values for acreage, thresholds, and costs.

SEQUENCE OF CONSTRUCTION

- 1. Sediment Controls And Tree Protective Devices Shall Be Installed in Accordance With Sediment & Erosion Control Plans For This Site...
2. Proposed Reforestation Areas Impacted By The Site Grading Shall Be Topsoiled And Stabilized As Per Note 2 Of The Planting / Soil Specifications...

MULTIFLORA ROSE CONTROL NOTE

PRIOR TO PLANTING ALL MULTIFLORA ROSE WITHIN PLANTING AREAS SHALL BE REMOVED. Removal Of The Multiflora Rose May Be Performed With Mowing And Herbicide Treatments...

FOREST PROTECTION GENERAL NOTES

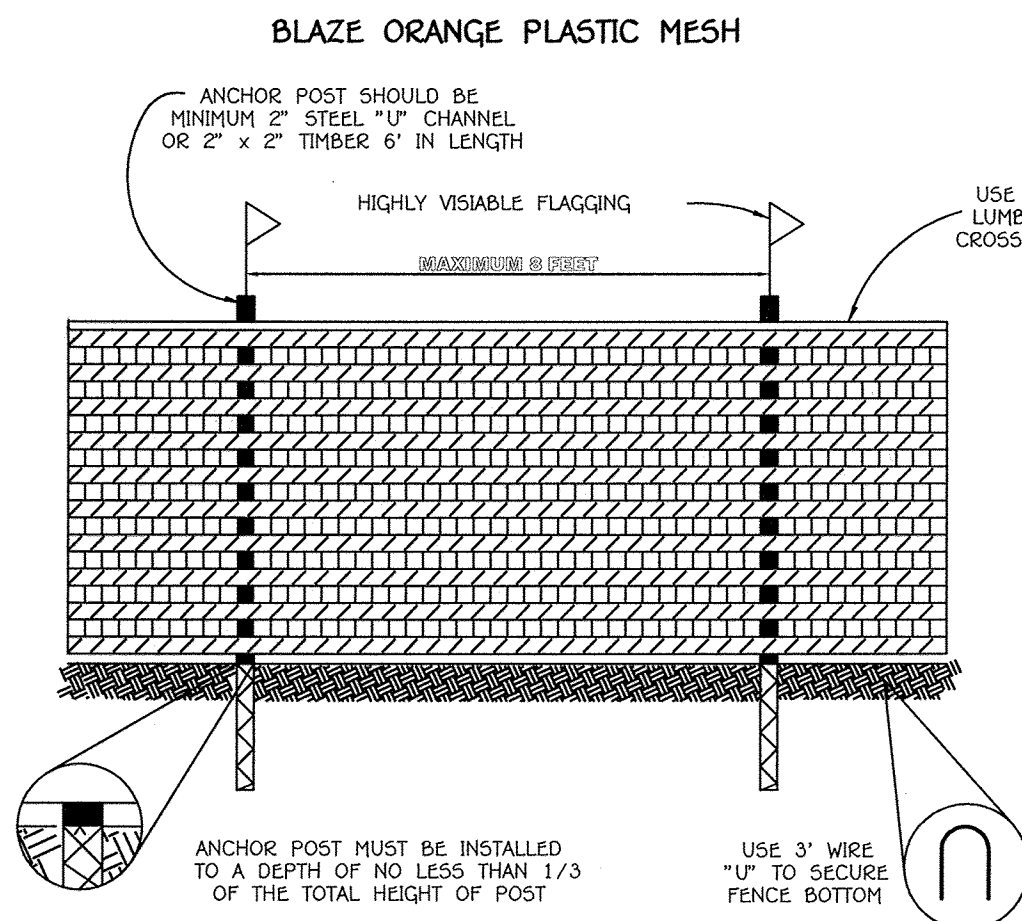
- 1. ALL FOREST RETENTION AREAS SHALL BE TEMPORARILY PROTECTED BY WELL ANCHORED BLAZE ORANGE PLASTIC MESH FENCING...
2. THE FOREST PROTECTION DEVICES SHALL BE INSTALLED SUCH THAT THE CRITICAL ROOT ZONES OF ALL TREES WITHIN THE RETENTION AREA NOT OTHERWISE PROTECTED WILL BE WITHIN FOREST PROTECTION DEVICES...

PRE-CONSTRUCTION MEETING

- 1. AFTER THE BOUNDARIES OF THE FOREST RETENTION AREAS HAVE BEEN FIELD LOCATED AND MARKED, AND AFTER THE FOREST PROTECTION DEVICES HAVE BEEN INSTALLED...
2. INSPECT ALL FLAGGED BOUNDARIES AND PROTECTION DEVICES...

CONSTRUCTION MONITORING

- 1. THE SITE SHALL BE INSPECTED PERIODICALLY DURING THE CONSTRUCTION PHASE OF THE PROJECT...
2. ANY DAMAGE THAT MAY OCCUR SHALL BE REMEDIATED IMMEDIATELY USING APPROPRIATE MEASURES...

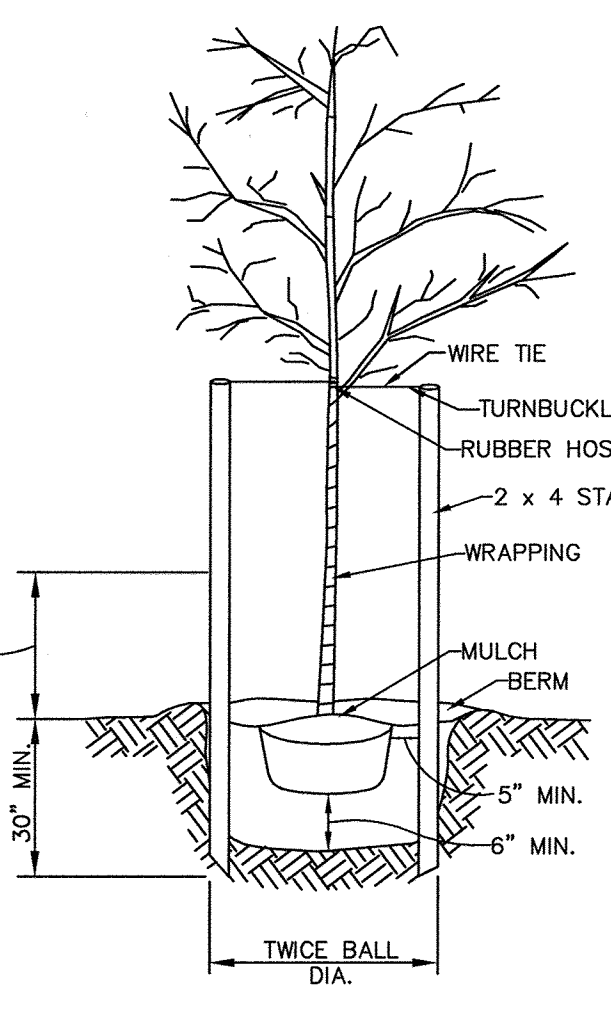


NOTES:

- 1. FOREST PROTECTION DEVICE ONLY.
2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE...

TREE PROTECTION DETAIL

NOT TO SCALE



NOTE: REMOVE BURLAP FROM TOP 1/3 OF BALL

TREE PLANTING

NOT TO SCALE

SCHEDULE A - PERIMETER LANDSCAPE EDGE

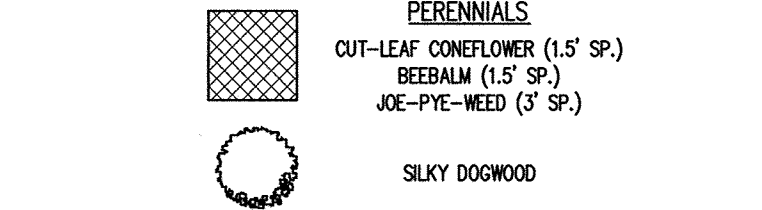
Table with columns for PERIMETER, LANDSCAPE TYPE, LINEAR FEET OF PERIMETER, CREDIT FOR EXISTING VEGETATION, and NUMBER OF PLANTS REQUIRED. Includes sub-tables for existing and proposed vegetation.

NOTE: 1. SPECIMEN TREES TO BE REMOVED ARE TO BE REPLACED ON LOTS 3 AND 4 NEAR THE FOREST CONSERVATION EASEMENT. SEE GENERAL NOTE #42 REGARDING APPROVAL OF WP-14-035.

LANDSCAPING PLANT LIST

Table with columns for QTY, KEY, NAME, and SIZE. Lists plants like Acer rubrum, Thuja cordata, and Quercus rubra.

TOTAL: 10 SHADE TREES, 21 EVERGREENS, 4 SHRUBS

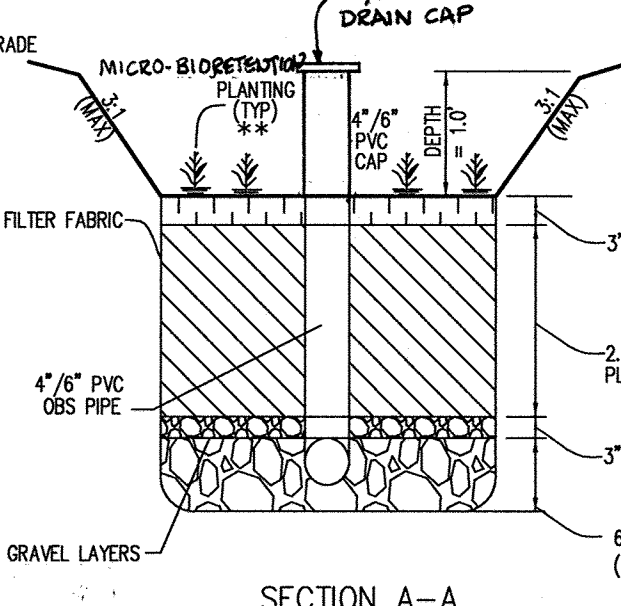


NOTE: PLANT MATERIAL MUST COVER AT LEAST 50% OF THE SURFACE AREA OF THE MICRO-BIORETENTION

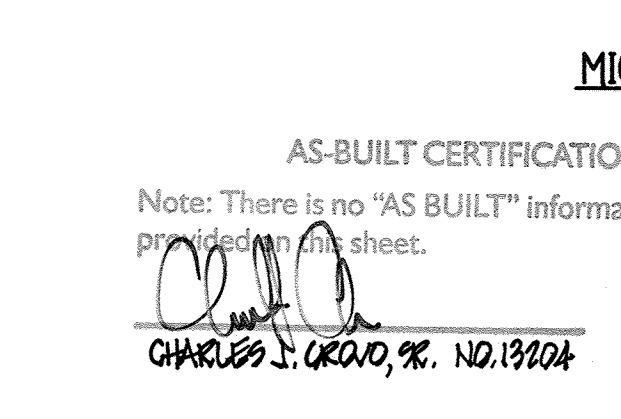
MICRO-BIORETENTION PLANTING DETAIL

NOT TO SCALE

SECTION A-A



SECTION B-B



MICRO-BIORETENTION DETAIL (M-6)

NOT TO SCALE

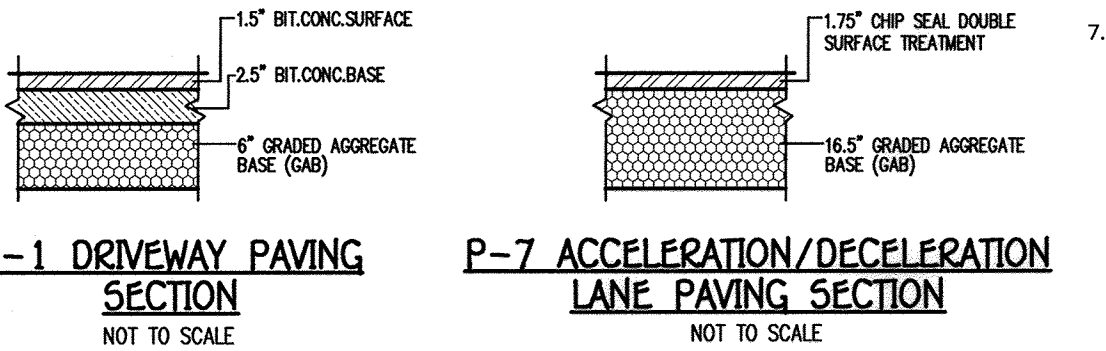
AS-BUILT CERTIFICATION Note: There is no "AS-BUILT" information provided on this sheet.

Table for MICRO-BIORETENTION showing quantities for different plant types and sizes.

Table for MICRO-BIORETENTION & BIORETENTION PLANT MATERIAL showing quantities and names.

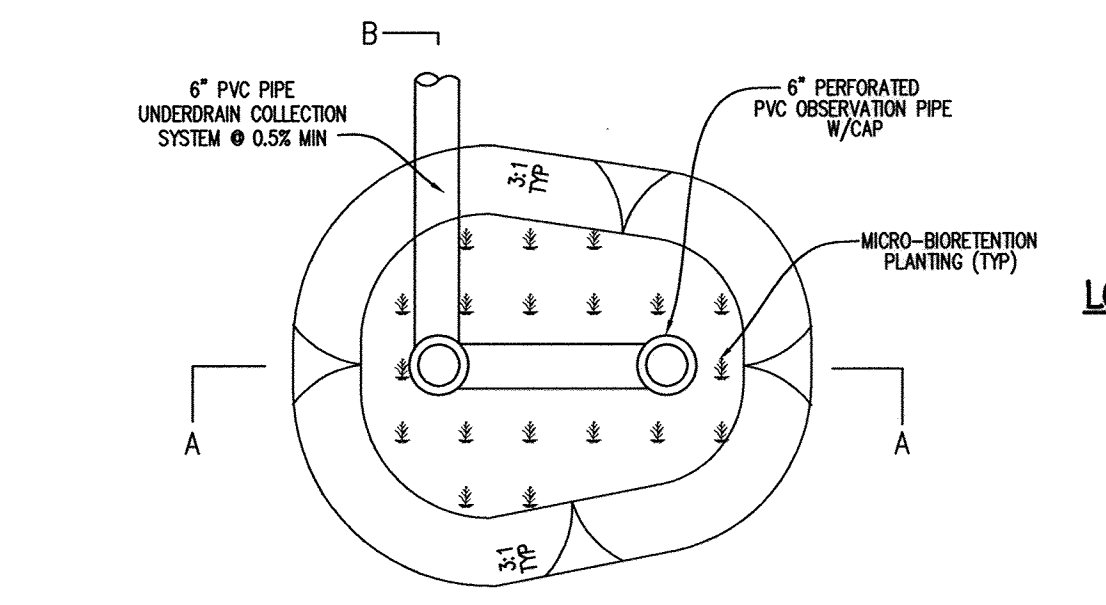
NOTES

- 1. THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION...
2. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE...



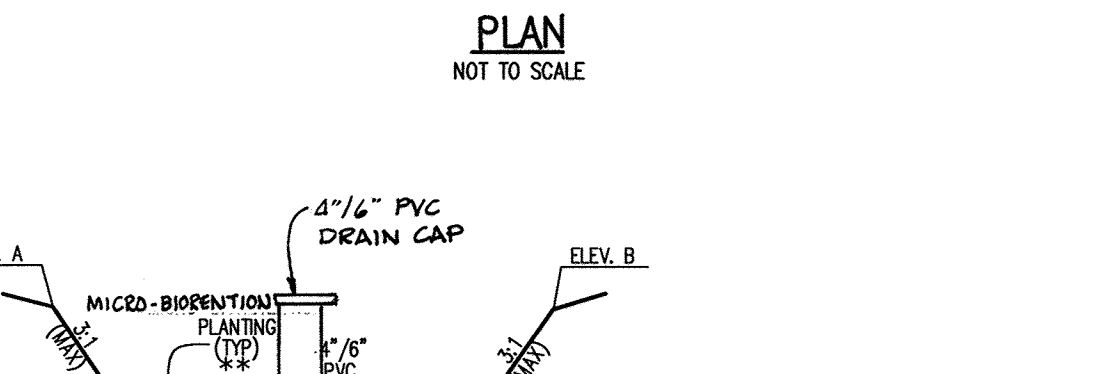
LOWER SECTION OF 16' USE-IN-COMMON DRIVEWAY CROSS SLOPE SECTION

(PORTION CONTAINING EXISTING PAVED DRIVEWAY) NOT TO SCALE



UPPER SECTION OF 16' USE-IN-COMMON DRIVEWAY CROSS SLOPE SECTION

(PORTION CONTAINING NO EXISTING PAVED DRIVEWAY) NOT TO SCALE

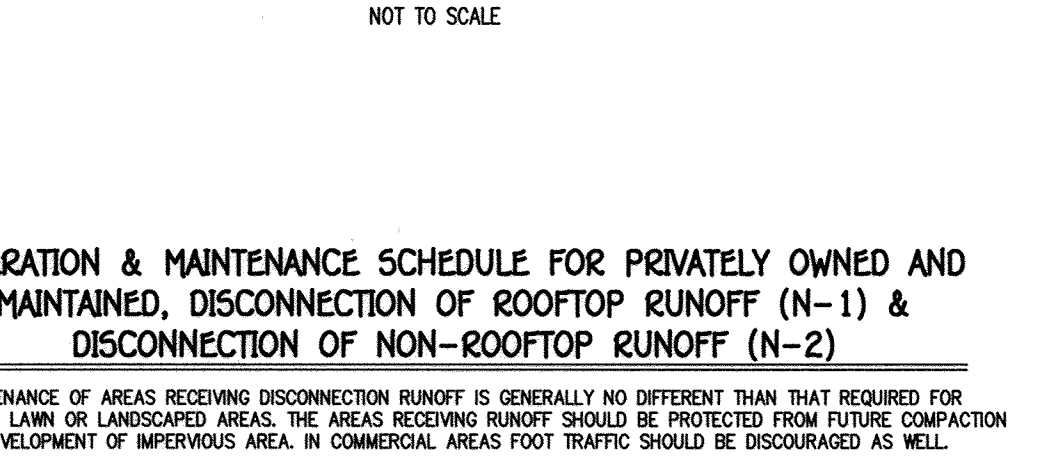


OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

- A. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY...
B. THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR...

TYPICAL PRIVATE DRIVE CROSS SLOPE SECTION WITH NON-ROOFTOP DISCONNECTION

NOT TO SCALE



OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED, DISCONNECTION OF ROOFTOP RUNOFF (N-1) & DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)

- 1. MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LANN OR LANDSCAPED AREAS...

STORMWATER MANAGEMENT DETAILS & NOTES

Project information including MYERS PROPERTY, LOTS 1 THRU 4, ZONED RC-DEO, TAX MAP No. 10 GRID No. 22, PARCEL No. 32, SHEET 3 OF 5.

Developer's/Builder's Certificate

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL...

Signature of Developer/Builder: [Signature] DATE: 10/15/14

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...

Signature of Professional Engineer: [Signature] DATE: 10/15/14

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature of Planning and Zoning official: [Signature] DATE: 10/15/14

OWNERS / DEVELOPER

TRIPLE R VENTURES, LLC C/O LAND DESIGN & DEVELOPMENT, INC. 2300 DORSEY HALL DRIVE ELICOTT CITY, MARYLAND 21042 CONTACT: JOSEPH RUTTER 443-367-1422

PROJECT

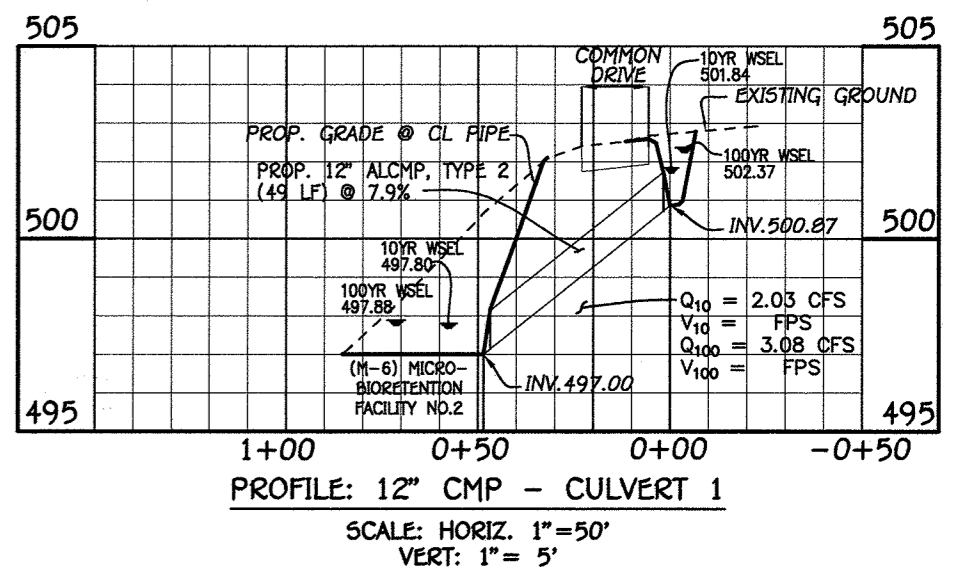
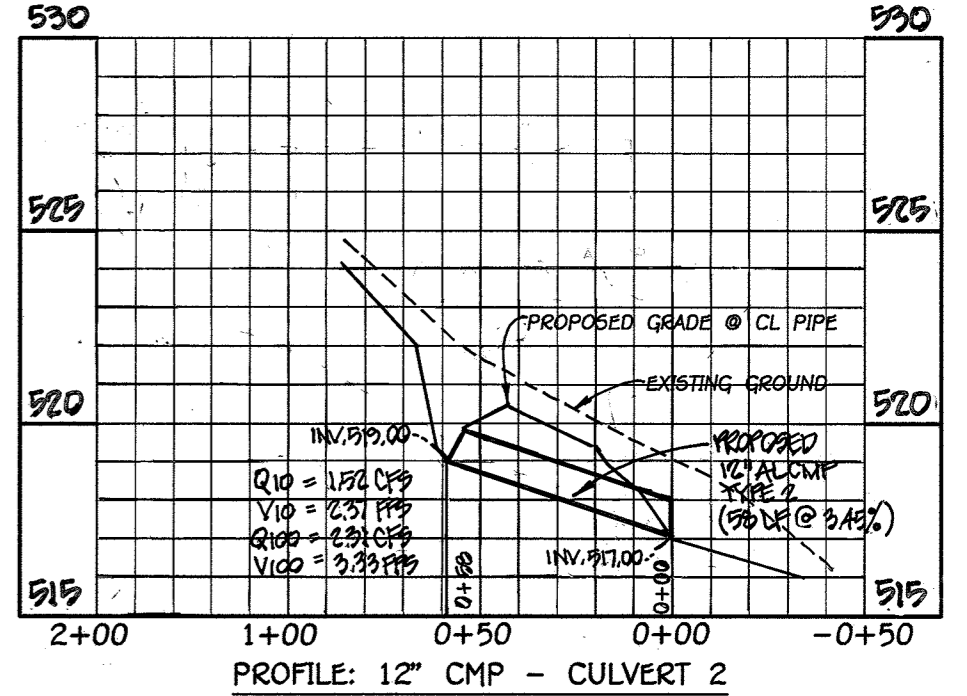
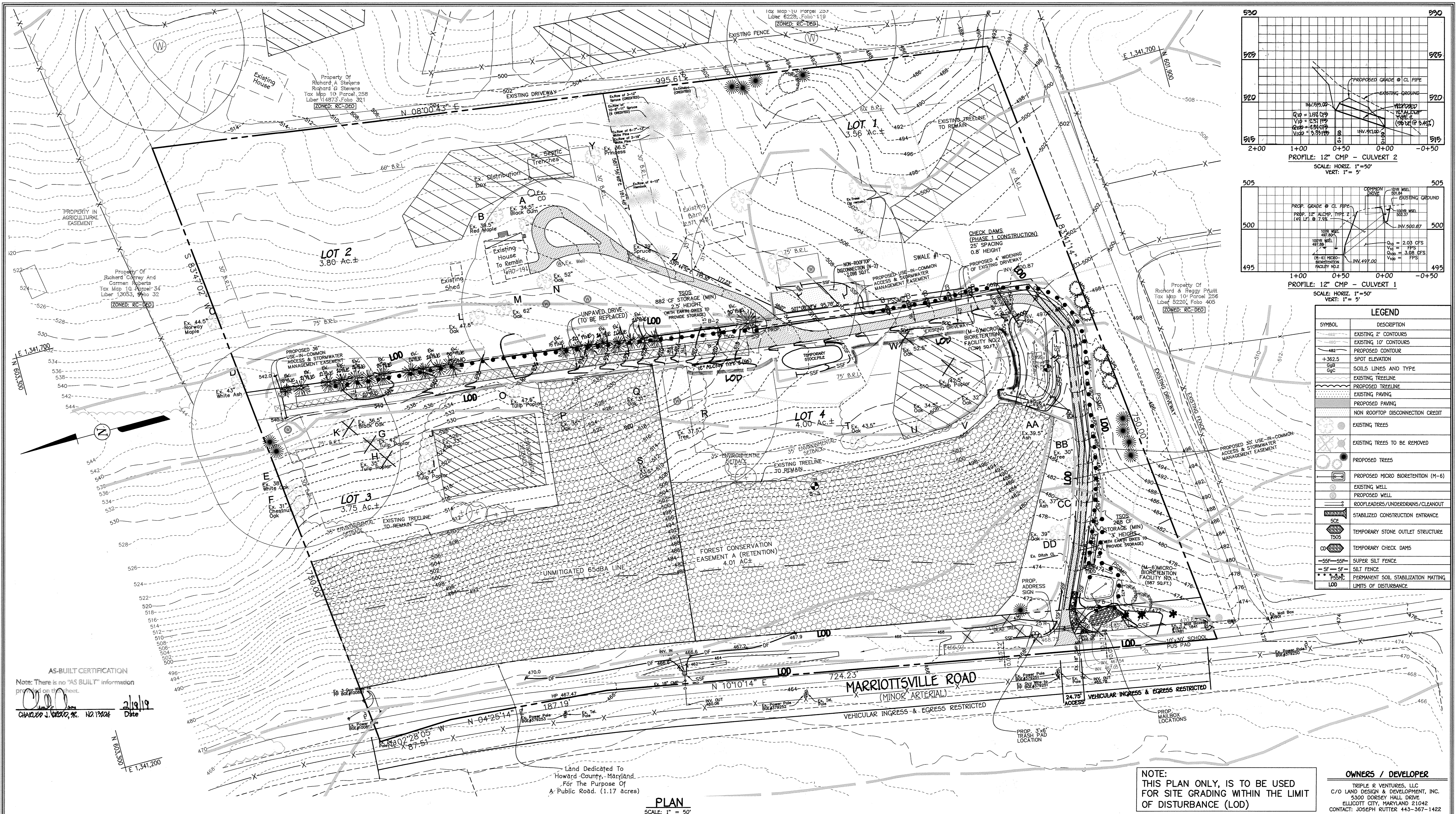
MYERS PROPERTY, LOTS 1 THRU 4 SECTION - PARCEL No. 32

Table with columns for DEED, BLOCK NO., ZONE, TAX/ZONE, ELEC. DIST., CENSUS TR. Values: 1009/700, 22, RC-DEO, 10, THRD, 6030.00

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

Table with columns for NO., REVISION, DATE, X. Includes entry: 1. REVISE SHEET NUMBERS & BIURETENTION DETAILS 9/15/15

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET



LEGEND	
SYMBOL	DESCRIPTION
(Dashed line)	EXISTING 2' CONTOURS
(Dashed line)	EXISTING 10' CONTOURS
(Dashed line)	PROPOSED CONTOUR
(Dot)	SPOT ELEVATION
(Line with 'a')	SOILS LINES AND TYPE
(Dashed line)	EXISTING TREELINE
(Dashed line)	PROPOSED TREELINE
(Dashed line)	EXISTING PAVING
(Dashed line)	PROPOSED PAVING
(Dashed line)	NON ROOFTOP DISCONNECTION CREDIT
(Circle with 'X')	EXISTING TREES
(Circle with 'X')	EXISTING TREES TO BE REMOVED
(Circle with 'X')	PROPOSED TREES
(Square with 'M-6')	PROPOSED MICRO BIORETENTION (M-6)
(Circle with 'W')	EXISTING WELL
(Circle with 'W')	PROPOSED WELL
(Line with 'R')	ROOFLEADERS/UNDERDRAINS/CLEANOUT
(Line with 'SCE')	STABILIZED CONSTRUCTION ENTRANCE
(Circle with 'TSOS')	TEMPORARY STONE OUTLET STRUCTURE
(Circle with 'CD')	TEMPORARY CHECK DAMS
(Line with 'SSF')	SUPER SILT FENCE
(Line with 'SF')	SILT FENCE
(Line with 'S-S')	PERMANENT SOIL STABILIZATION MATTING
(Dashed line)	LIMITS OF DISTURBANCE

AS-BUILT CERTIFICATION
 Note: There is no "AS BUILT" information provided on this sheet.
 CHARLES J. WALKER, P.E. NO. 17104 Date: 2/19/15

Land Dedicated To Howard County, Maryland For The Purpose Of A Public Road. (1.17 acres)

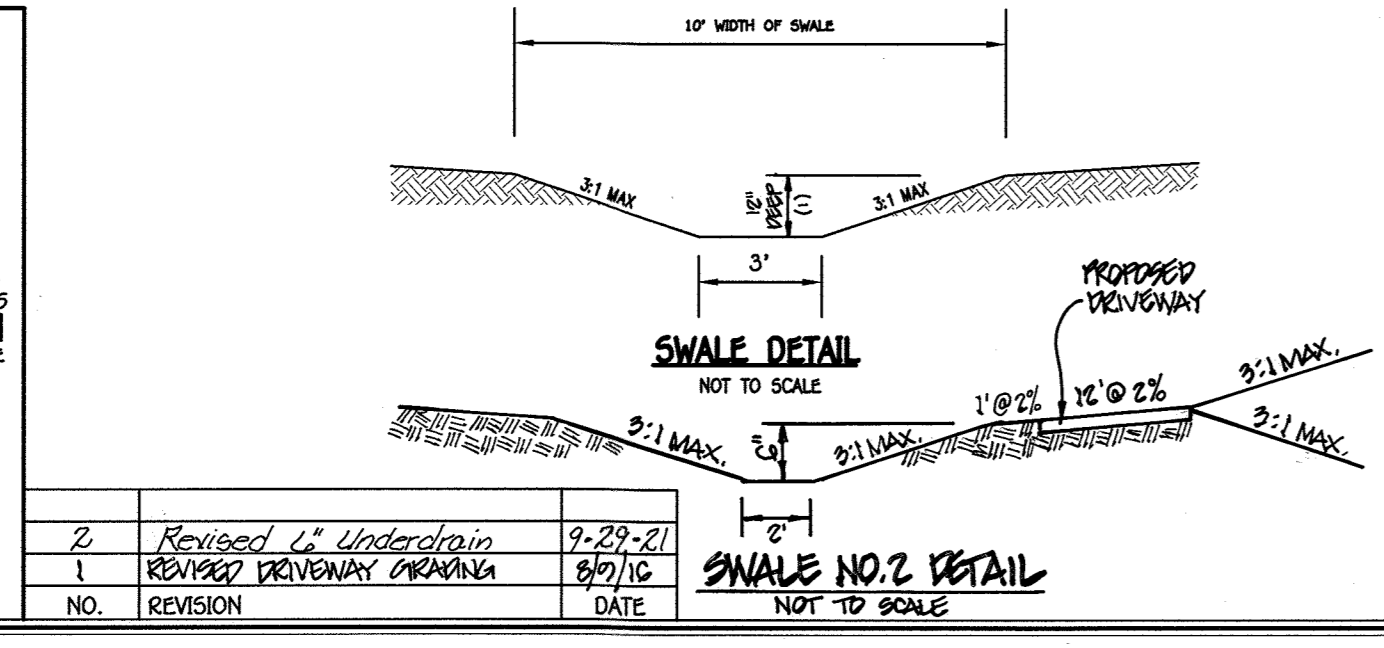
PLAN
SCALE: 1" = 50'

NOTE: THIS PLAN ONLY, IS TO BE USED FOR SITE GRADING WITHIN THE LIMIT OF DISTURBANCE (LOD)

OWNERS / DEVELOPER
 TRIPLE R VENTURES, LLC
 C/O LAND DESIGN & DEVELOPMENT, INC.
 5300 DORSEY HALL DRIVE
 ELLICOTT CITY, MARYLAND 21042
 CONTACT: JOSEPH RUTTER 443-367-1422

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALDROCK NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2895

NO.	REVISION	DATE
1	Revised Underlain	9-25-11
2	REVISED UNDERLAIN	8/17/15



THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Johel Pineda 12/17/15
 Howard Soil Conservation District. Date

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: 01/12/2016.

Jonathan Smith 12/17/15
 Signature Of Professional Engineer DATE

DESIGN CERTIFICATION
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Jonathan Smith 12/17/15
 Signature Of Engineer DATE

DEVELOPER'S CERTIFICATION
 I/WE HEREBY 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 CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

Jonathan Smith 12/17/15
 Signature Of Developer DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Kathleen 12/29/15
 Chief, Division of Land Development Date

David 12/24/15
 Chief, Development Engineering Division Date

PROJECT: MYERS PROPERTY, LOTS 1 THRU 4 SECTION: PARCEL NO.: 32

DEED	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
1009/700	22	RC-DEO	10	THIRD	6030.00

GRADING AND SEDIMENT/EROSION CONTROL PLAN FOR USE IN COMMON DRIVE FOR LOTS 1 THRU 4

MYERS PROPERTY
 LOTS 1 THRU 4
 ZONED RC-DEO
 TAX MAP No.: 10 GRID No.: 22 PARCEL No.: 32
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 2015

SHEET 4 OF 5 **F-14-086**

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET

SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

- Temporary Preparation**
 - Seeded 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 ripper mounted on construction equipment. After the soil is loosened, it must not be roller or dragged enough 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.
 - Apply fertilizer and lime as prescribed on the plans.
 - Inoculate lime and fertilizer into the top 3 to 5 inches of soil by disk or other suitable permanent stabilization.
 - 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.
 - Soluble salts less than 500 parts per million (ppm).
 - Soil contains less than 40 percent clay but enough fine grained material (greater than 20 percent plus clay) to provide the capability to hold a moderate amount of moisture. An exception: loess may be planted, then a sandy soil (less than 30 percent plus clay) would be acceptable.
 - Soil contains 1.5 percent minimum organic matter by weight.
 - Soil contains sufficient pore space to permit adequate root penetration.
 - Application of amendments or topsoil is required if on-site soils do not meet the above conditions.
 - Graded areas must be maintained in a true and even grade as specified on the approved plan, then sodded or otherwise loosened to a depth of 3 to 5 inches.
 - Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.
 - Mix soil amendments into the top 3 to 5 inches of soil by disk or other suitable means. Raise them areas to smooth the surface, remove large objects like stones and branches, and ridify the area by soil application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seeded preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition in the contour of the slope. Leave the top 1 to 3 inches of loose soil and friable seedbed loosening may be unnecessary on newly disturbed areas.
- Topsoiling**
 - Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient level, low pH, relatively high silt content or highly erodible soil conditions.
 - Topsoil added from an existing area may be used provided it meets the standards set forth in these specifications. Typically, the depth of topsoil to be advanced for a given soil type can be found in the representative soil profile section in the US Survey published by USDA-NRCS.
 - Topsoiling is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - 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.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
 - Areas having slopes steeper than 2:1 require special consideration and design.
 - Topsoiling specifications to be used as topsoil must meet the following criteria:
 - Topsoil must be a loam, sandy loam, clay loam, silty loam, silty 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 textures, gravels and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, animal and plant matter, or other materials larger than 1 1/2 inches in diameter.
 - Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, weed, poison ivy, thistle, or others as specified.
 - 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.
 - Erosion prevention and sediment control practices must be maintained when applying topsoil.
 - Uniformly distribute topsoil in a 5 to 8 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.
 - 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 seeding and seed preparation.

PERMANENT SEEDING NOTES (B-4-3)

- Seed Mixtures**
 - General Use
 - Select one or more of the species or mixtures listed in Table B.1 for the appropriate Filter Hardness 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 plans.
 - Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.
 - For sites having disturbed areas over 5 acres, use and show the results of the soil testing agency. For areas receiving low maintenance, apply use form fertilizer (40-0-0) at 3 1/2 pounds per 1000 square feet (100 square feet) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.
 - Turfgrass Mixtures
 - Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.
 - Select one or more of the species or mixtures listed below based on the site condition or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plans.
 - Kentucky Bluegrass/Full Sun Mixture:** For use in areas that receive intensive maintenance, 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. Includes a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
 - Kentucky Bluegrass/Partial Sun Mixture:** For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive maintenance. Certified Perennial Ryegrass/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Includes a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
 - Tall Fescue/Kentucky Bluegrass/Full Sun Mixture:** For use in drought prone areas and/or areas receiving low to medium maintenance in full sun to medium shade. Recommended mixture includes: Certified Tall Fescue Cultivar Rate: 1.5 to 2.0 pounds per 1000 square feet. Certified Kentucky Bluegrass Cultivar Rate: 1.5 to 2.0 pounds per 1000 square feet and 20 to 70 percent Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet. One or more cultivars may be blended.
 - 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 Cultivar Rate: 2 pounds mixture per 1000 square feet. Certified Fine Fescue and 20 to 70 percent Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet.
 - Notes:
 - Select turfgrass varieties from those listed in the most current University of Maryland Publication Agronomy Home #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.
 - Ideal Times of Seeding for Turf Grasses: Midwestern MD: March 15 to June 1, August 1 to October 1 (Hardness Zone: 5b), Central MD: March 1 to May 15, August 15 to October 15 (Hardness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardness Zone: 7a, 7b).
 - Till areas to be seeded by disk or other approved methods to a depth of 2 to 4 inches, level and rake the area to produce a firm 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.
 - If soil moisture is deficient, supply new seedlings with adequate water for plant growth. 1 1/2 to 1 inch of water depending on soil texture until they are firmly established. This is especially true when seedlings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

Hardness Zone (from Figure B.3):	SB	Fertilizer Rate (10-20-20)	Lime Rate (from Table 3.1)
No. Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depth
1	100	Mar. 1 - May 15 Aug. 1 - Oct. 15	1 1/2 - 1/2" to 2"
2	75	Apr. 15 - May 15	1 1/2" to 2"
3	50	Jun. 1 - Aug. 15	1 1/2" to 2"
4	25	Sep. 1 - Oct. 15	1 1/2" to 2"
5	10	Nov. 1 - Dec. 31	1 1/2" to 2"

- Soil Stabilization Note**

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

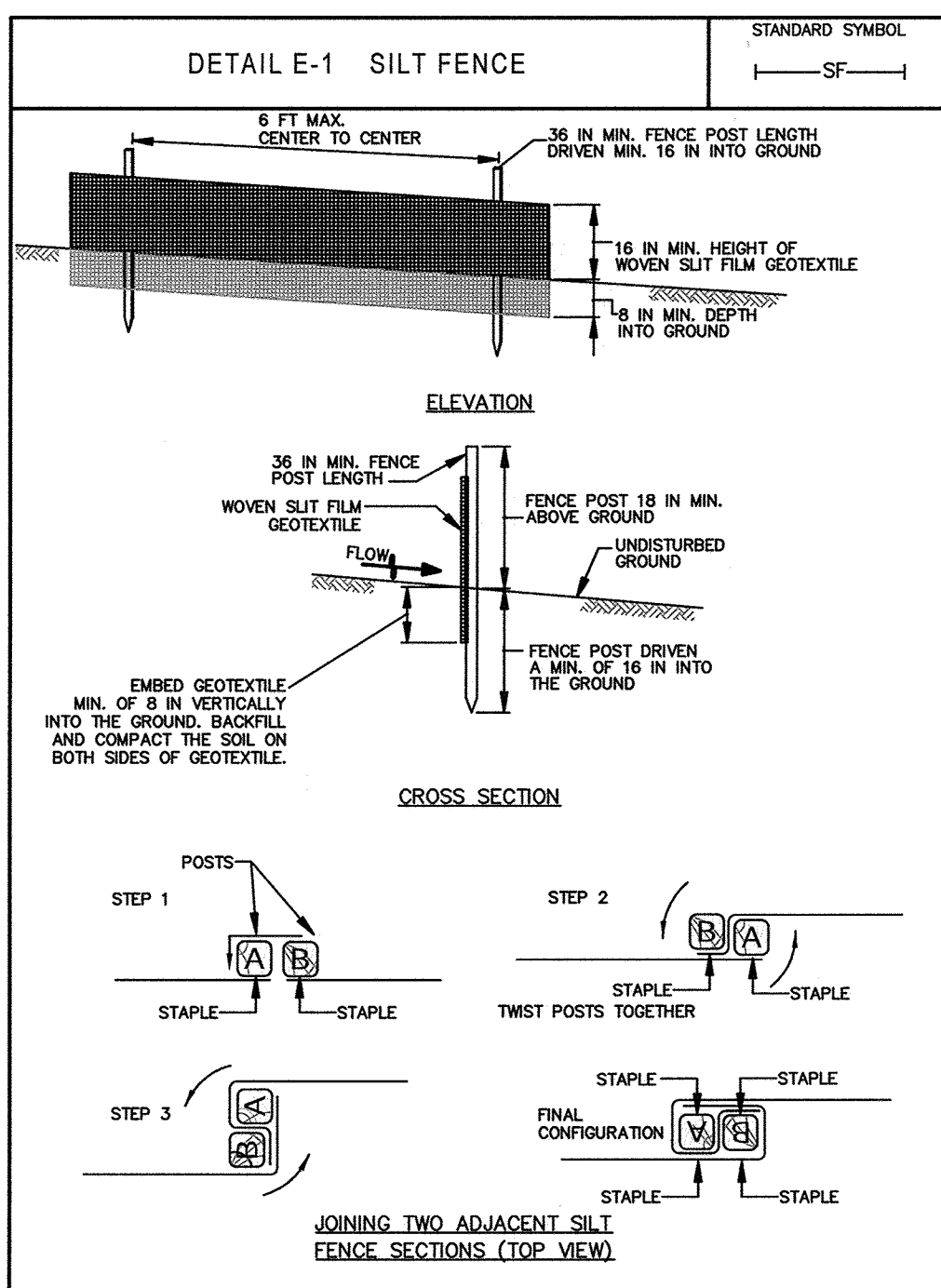
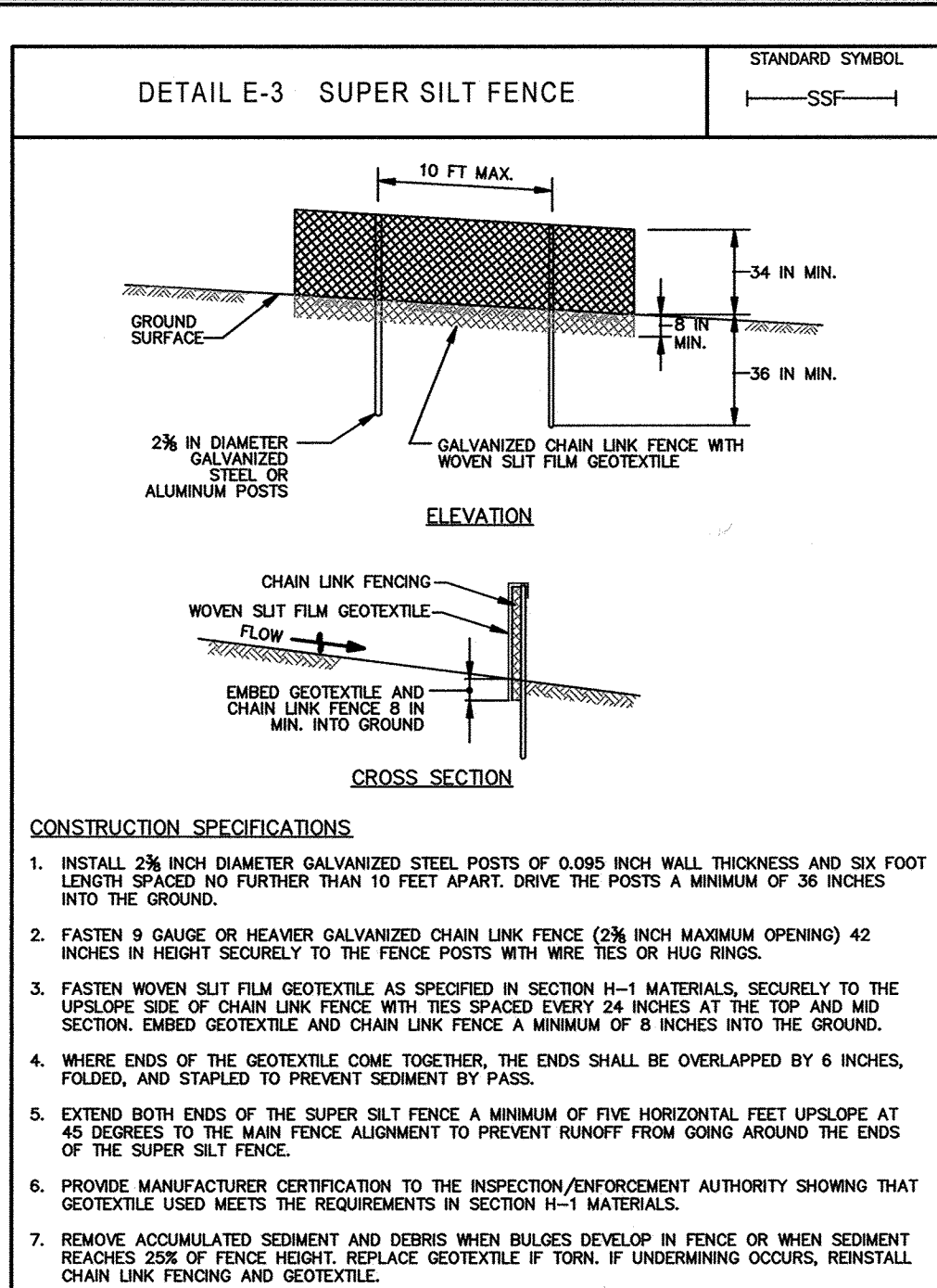
 - THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DICES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
 - SEVEN (7) CALENDAR DAYS AS TO ALL OTHERS DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GROWING.

B-4-B STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

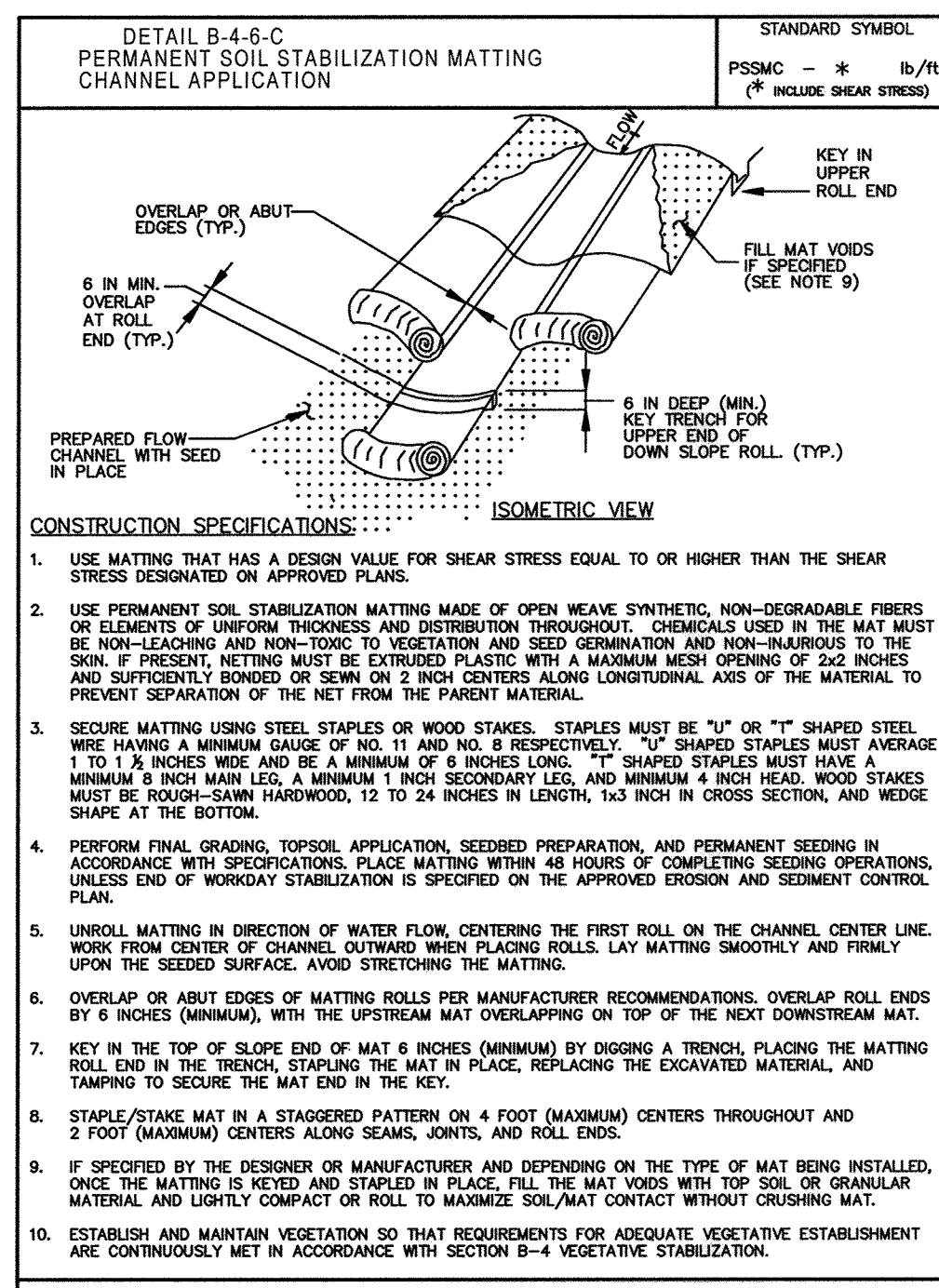
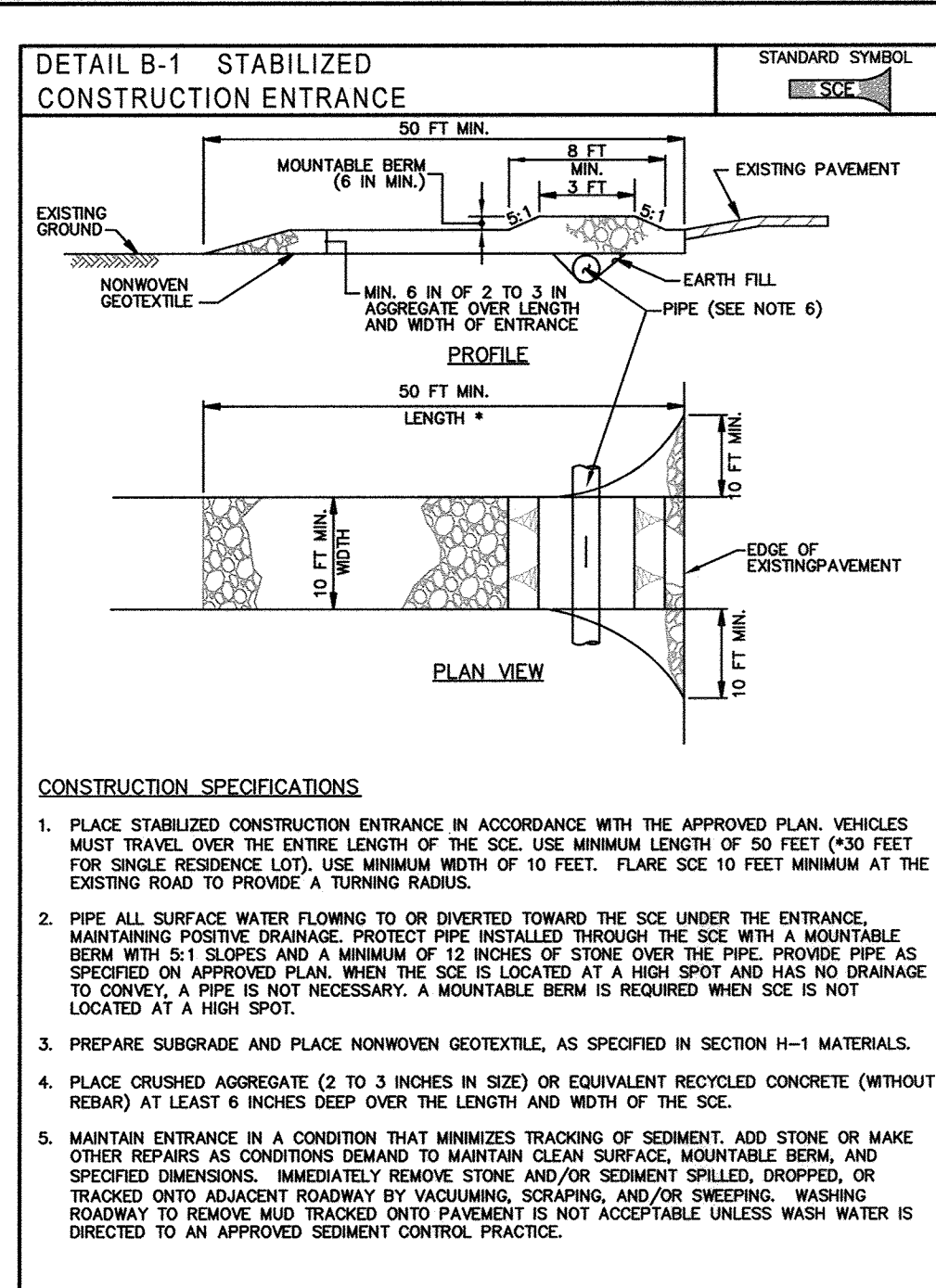
- A mound or pile of soil protected by appropriately designed erosion and sediment control measures.
 - Purpose:** To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.
 - Conditions Where Practice Applies:** Stockpile areas are utilized when it is necessary to subgrade and store soil for later use.
 - Criteria:**
 - The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
 - 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 B-3 Land Grading.
 - Runoff from the stockpile area must drain to a suitable sediment control practice.
 - Access the stockpile area from the upslope side.
 - 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.
 - All disturbed areas along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
 - Stockpiles must be established in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable materials.
- The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained 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, 300 feet for 3:1 slopes, or 400 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

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

- Purpose:** To protect disturbed soils from erosion during and at the end of construction.
- Criteria:**
 - To the surface of all perimeter controls, slopes, and any disturbed area not under active growing.



- CONSTRUCTION SPECIFICATIONS**
 - USE WOOD POSTS 1 1/2 IN X 1 1/2 IN (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD, AS ALTERNATIVE TO STEEL POSTS. USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
 - USE 3/8 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
 - USE WOVEN SILT FILM GEOTEKSTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEKSTILE TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR HUG RINGS.
 - PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEKSTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
 - EMBED GEOTEKSTILE A MINIMUM OF 6 INCHES VERTICALLY INTO THE GROUND, BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
 - WHERE TWO SECTIONS OF GEOTEKSTILE 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 SEEDING REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEKSTILE TOP PER UNDERMINING OCCURS. REINSTALL FENCE.

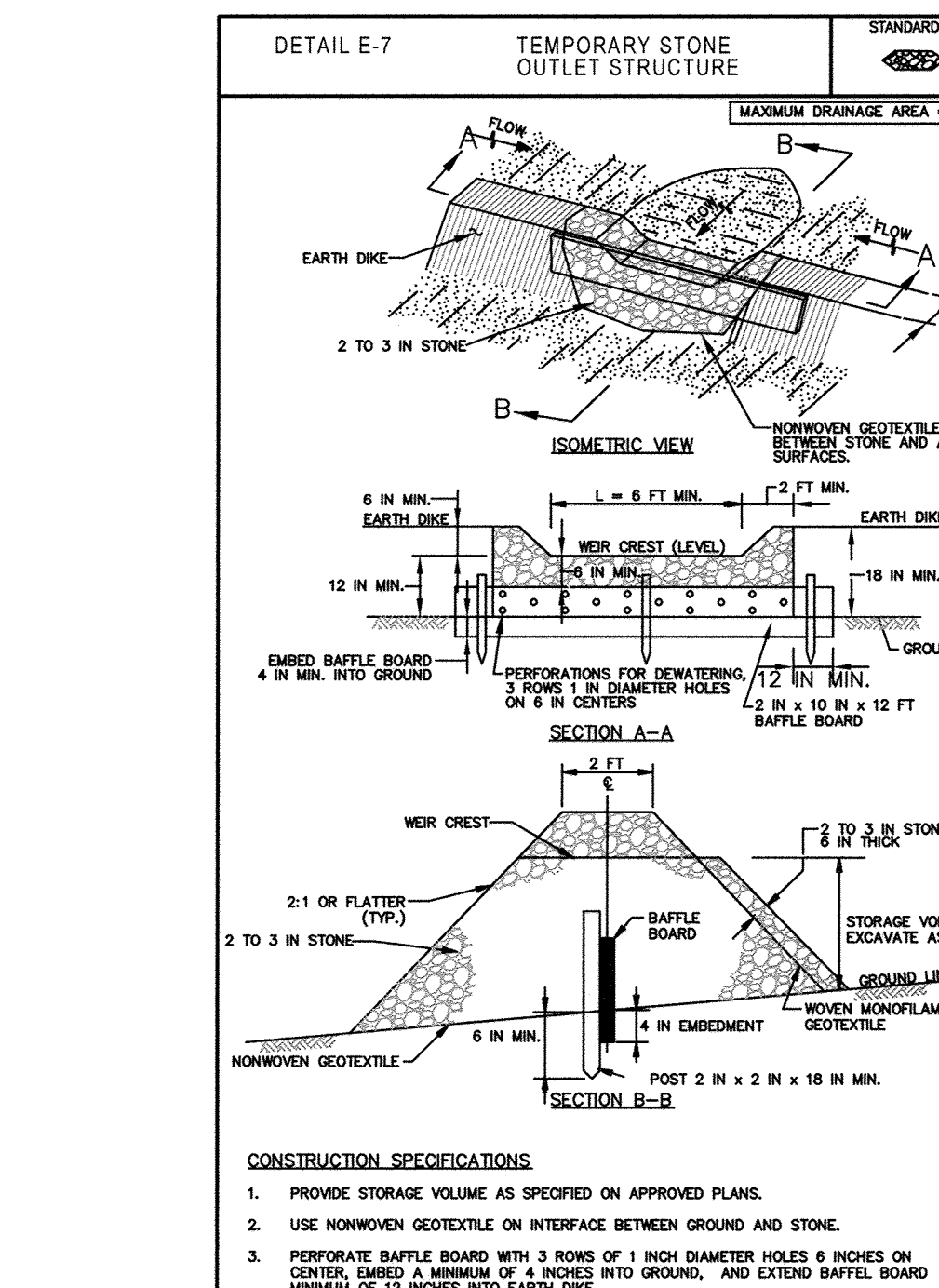
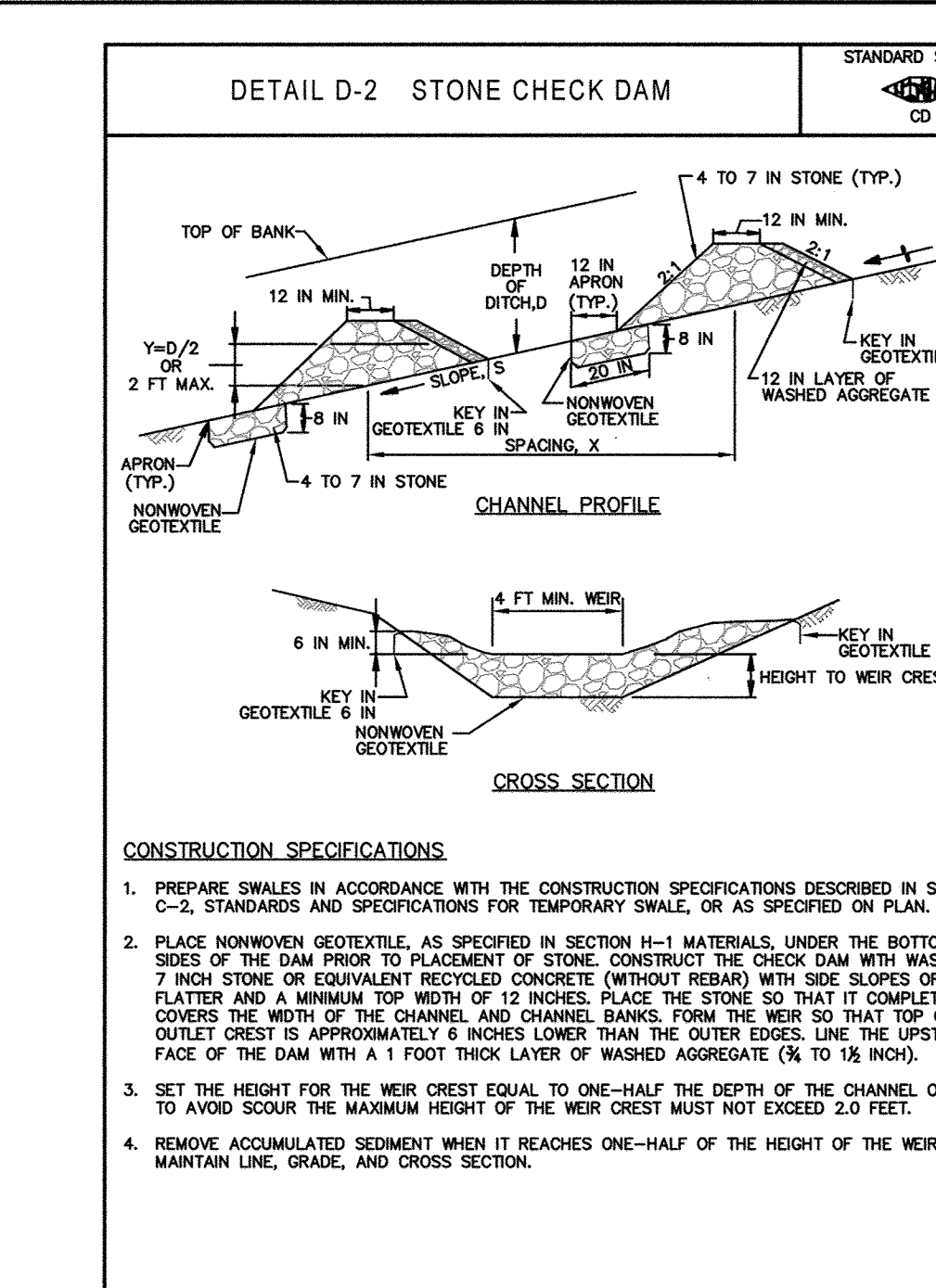


- CONSTRUCTION SPECIFICATIONS**
 - USE WOOD POSTS 1 1/2 IN X 1 1/2 IN (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD, AS ALTERNATIVE TO STEEL POSTS. USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
 - USE 3/8 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
 - USE WOVEN SILT FILM GEOTEKSTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEKSTILE TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR HUG RINGS.
 - PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEKSTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
 - EMBED GEOTEKSTILE A MINIMUM OF 6 INCHES VERTICALLY INTO THE GROUND, BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
 - WHERE TWO SECTIONS OF GEOTEKSTILE 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 SEEDING REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEKSTILE TOP PER UNDERMINING OCCURS. REINSTALL FENCE.

SEQUENCE OF CONSTRUCTION FOR USE IN COMMON DRIVEWAY (SHEET 4)

- OBTAIN GRADING PERMITS. (2 WEEKS) NOTIFY "MISS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777.
- NOTIFY HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION DIVISION AT 410-313-1870 AT LEAST 24 HOURS BEFORE STARTING ANY WORK. IN ADDITION, NOTIFY AT PEOR TO ANY ACTIVITY WITHIN THEIR EASEMENT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE & SUPER-SILT FENCE WHERE SHOWN ON THE PLANS. CLEAR AND GRUB WHERE NECESSARY FOR DRIVEWAY CONSTRUCTION. (1 WEEK)
- STABILIZE ALL DISTURBED AREAS WITH TEMPORARY SEEDING. CONTACT THE COUNTY SEDIMENT EROSION CONTROL INSPECTOR BEFORE PROCEEDING. (2 DAYS)
- INSTALL PROPOSED PHASE 1 CURBLET AS SHOWN ON SHEET 4 INCLUDING CHECK DAMS (PHASE 1). DELAY GRADING OF SWALE UPHILL OF 520 CONTOUR & CURBLET PIPE UNDER LOT 2 DRIVEWAY UNTIL AREAS ASSOCIATED WITH PHASE 1 CURBLET INSTALLATION IS STABILIZED. (1 WEEK)
- INSTALL PROPOSED PHASE 2 CURBLET AS SHOWN ON SHEET 4 INCLUDING CHECK DAMS (PHASE 2). DELAY GRADING OF SWALE UPHILL OF 520 CONTOUR & CURBLET PIPE UNDER LOT 2 DRIVEWAY UNTIL AREAS ASSOCIATED WITH PHASE 2 CURBLET INSTALLATION IS STABILIZED. (1 WEEK)
- GRADE DRIVEWAY, GRADE ACCELERATION/DECELERATION LAINE TO SUBBASE, AND INSTALL SUBBASE FOR BOTH PHASES (2).
- INSTALL TEMPORARY STONE OUTLET STRUCTURE ON SOUTH SIDE OF DRIVEWAY NEAR MARRIOTTVILLE ROAD (PHASE 2). (1 DAY)
- INSTALL BASE COURSE OF PAVING FOR DRIVEWAY AND ACCELERATION/DECELERATION LAINE PER DETAILS SHEET 3. (1 WEEK)
- STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEEDING. (2 DAYS)
- INSTALL BIOTRETENTION AND MICRO-BIOTRETENTION FACILITIES AS SHOWN ON THE PLANS. (1 WEEK)
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR START REMOVING THE SEDIMENT CONTROL FEATURES AND STABILIZE THE AREAS WITH PERMANENT SEEDING. (1 WEEK)

NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON AFTER EACH RAINFALL AND ON A DAILY BASIS.



- CONSTRUCTION SPECIFICATIONS**
 - PHASE STORAGE VOLUME AS SPECIFIED ON APPROVED PLANS.
 - NONWOVEN GEOTEKSTILE ON INTERFACES OF STORAGE VOLUME AND 6 INCHES ON CENTER.
 - PERFORATE BATTLE BOARD WITH 3 HOLES OF 1 INCH DIAMETER HOLES 6 HOLES ON CENTER. CLEAN A MINIMUM OF 4 INCHES INTO GROUND, AND EXTEND BATTLE BOARD MINIMUM OF 12 INCHES INTO GROUND.
 - USE 2 TO 3 INCH STONE OR EQUIVALENT RECYCLED CONCRETE TO PLACE NONWOVEN GEOTEKSTILE ON UPSLOPE FACE AND COVER WITH A MINIMUM OF 6 INCHES OF TOPSOIL.
 - NONWOVEN AND WOVEN MONOFILAMENT GEOTEKSTILES AS SPECIFIED IN SECTION H-1 MATERIALS.
 - SET MER CREST STONE 6 INCHES LOWER THAN THE TOP OF EARTH DIKE. USE MINIMUM LENGTH OF 6 FEET FOR MER CREST.
 - REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO WITHIN 8 INCHES OF MER CREST. REPLACE GEOTEKSTILE AND STONE (ADJ. WHEN STRUCTURE CEASES TO DRAIN, MAINTAIN GRADE, AND CROSS SECTION.
 - UPON REMOVAL OF STONE OUTLET STRUCTURE, GRADE AREA WITH EXISTING GROUND, WITHIN 24 HOURS, STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.

OWNERS / DEVELOPER

TRIPLE R VENTURES, LLC
C/O LAND DESIGN & DEVELOPMENT, INC.
5300 DORSEY HALL DRIVE
ELLIOTT CITY, MARYLAND 21042
CONTACT: JOSEPH RUTNER 443-367-1422

MYERS PROPERTY
LOTS 1 THRU 4
ZONED RC-DEO
TAX MAP NO. 10 GRID NO. 22 PARCEL NO. 32
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: NOVEMBER, 2015

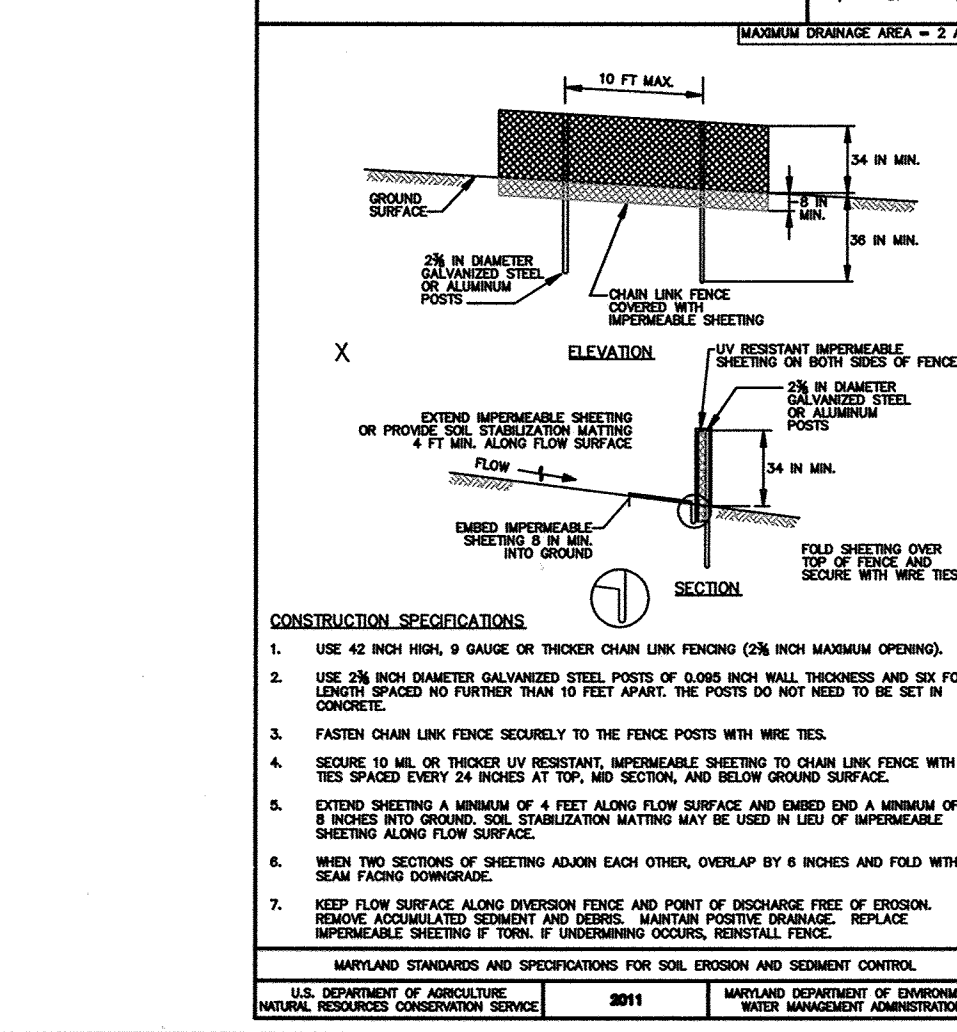
AS-BUILT CERTIFICATION

Note: There is no "AS BUILT" information provided on this sheet.

CHARLES J. CREDO, P.E. NO. 11004

2/19/19

NO.	REVISION	DATE



PROFESSIONAL CERTIFICATION

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Howard Soil Conservation District, Date: 12/17/15

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEERING GEODESIC ENGINEER REGISTERED AND IN GOOD STANDING WITH THE BOARD OF THE STATE OF MARYLAND, LICENSE NO. 36396, EXPIRATION DATE: 01/12/2016.

Signature of Professional Engineer: [Signature] DATE: 12/17/15

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature of Engineer: [Signature] Date: 12/17/15

DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING PROFESSIONAL ENGINEERING AND/OR GEODESIC ENGINEERING PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

Signature of Developer: [Signature] Date: 12/17/15

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature: [Signature] Date: 12/20/15

Signature: [Signature] Date: 12/20/15

PROJECT: MYERS PROPERTY, LOTS 1 THRU 4 SECTION: 32 PARCEL NO.: 32

DEED: 1009/700 BLOCK NO. 22 ZONE: RC-DEO TAX/ZONE: 10 ELEC. DIST.: THRD CENSUS TR.: 6030.00

SEDM/EROSION CONTROL DETAILS & NOTES FOR USE IN COMMON DRIVE FOR LOTS 1 THRU 4

SHEET 5 OF 5

F-14-086

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET