1:\2013\13034\dwn\13034 Derc Dlan dwn 7/25/2014 6:43:49 AM 1:30

1:\2013\13034\dwq\13034 Perc Plan.dwg. Model. 3/7/2014 6:44:29 AM, 1:30

	SOILS LEGEND				
SOIL	NAME	CLASS	K FACTOR		
GgA	Glenelg loam, 0 to 3 percent slopes	В	0.20		
GgB	Gienelg loam. 3 to 8 percent slopes	В	0.20		
GgC	Glenelg loam, 0 to 15 percent slopes	В	0.20		
GmB	Glenville silt loam, 3 to 8 percent slopes	С	0.37		

STORMWATER	MANAGEMENT PRACTICES				
ADDRESS	MICRO-BIORETENTION M-6 (NUMBER)	NON-ROOFTOP DISCONNECTION N-2 (NUMBER)			
14290 TRIADELPHIA ROAD	.1				

STORMWATER MANAGEMENT SUMMARY CHART RCN = 55TARGET PE = 1.6"

DESIGN NARRATIVE

This report will demonstrate how the criteria set forth in the Maryland Stormwater Design Manual. Volumes I and II (effective October 2000, revised May 2009) 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.

14290 Triadelphia Road is being renovated for use as an interior design business. The property is zoned RC-DEO and has an approved conditional use under BA-14-004C&V to utilize the existing structure as an interior design business. The property is located on Tax Map 21, Grid 19, Parcel Nos. 104 & 135 of the Howard County, Maryland Tax Map Database System. The property is made up of two existing parcels of ground located at the northwest corner of Sharp Road and Triadelphia Road. The existing structure will utilize a private well and septic system. The property is located in the Glenely area of Howard County draining to an off-site unnamed tributary of the Brighton Dam - Patuxent River watershed (02131108). This property is relatively trapizoidal in shape and majority of runoff on-site is mainly from north to south, along Triadelphia Road. The site is not forested and contains no wetlands, wetland buffers, stream, Triadelphia Road. The site is not forested and contains no wetlands, wetland buffers, stream, stream buffers, steep slopes, or 100 year floodplain, per a field inspection conducted by Eco-Science Professionals (ESP) dated August, 2014. The Web Soil Survey shows soils on the site consist of Glenelg loam (GgB), Type "B" soils which exist throughout the site. The site is improved by an old church building and a gravel parking / driveway area. Gravel area is proposed to be somewhat reconfigured and improved with top paving. The runoff from the majority of the driveway and parking area is to be directed overland to a micro-bioretention stability park the interception of Sharp Coad and Triadelphia Coad. facility near the intersection of Sharp Road and Triadelphia Road. A portion of the remaining existing / proposed driveway not flowing to the micro-bioretention will utilize non-rooftop disconnection (N-2). Since stormwater management for a small portion of this driveway access onto Triadelphia Road cannot be provided due to the slope of the access drive and closed proximity to the existing well. We feel ESD to the MEP has been provided. Also, due to the fact that the property is already improved, treatment is not required for the existing structure.

- Environmentally sensitive areas do not exist on-site (steep slopes, wetlands, wetland buffer, floodplain, stream, or stream buffer), therefore no special effort to protect natural resources is required on-site.
- enance 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.
- III. Reduction of impervious areas through better site design, alternative surfaces and Nonstructural The design of this project utilizes access driveways on both Sharp Road and Triadelphia Road with an on-site parking area. Non-Structural practices as permitted in Chapter 5, one (1) Micro-Bioretention Area (M-6) and Non-Rooftop Disconnection (N-2) will be used to address ESD to the MEP requirements.
- IV. Integration of Prosion and Sediment Controls into Stormwater Strategy:

 The majority of the site runoff sheet flows from north to south to Triadelphia Road. Silt fence, super silt fence, and erosion control matting will be utilized for erosion & sediment control. There is no direct discharge of runoff directly to a stream. All site runoff will discharge to the existing ground prior to entering a distant off-site stream channel and eventually to Brighton Dam - Patuxent River. No drainage & utility easements will be required. It is anticipated that all cut will be utilized on-site for construction at time of Site Development Plan.
- V. Implementation of ESD Planning Techniques and practices to the Maximum Extent Practicable ESD to the MEP has been provided. Stormwater management for a small portion of this driveway access onto Triadelphia Road cannot be provided due to the slope of the access drive and closed proximity to the existing well. Also, due to the fact that the property is already improved, treatment is not required for the existing structure, therefore the full required ESD volume has not been provided.
- VI. Request for a Design Manual Waiver: No Waivers related to stormwater management are being requested in this project.

SITE ANALYSIS DATA CHART

- TOTAL AREA OF THIS SUBMISSION = 1.49 AC. ±. LIMIT OF DISTURBED AREA = 0.62 Ac.+
- PRESENT ZONING DESIGNATION = RC-DEO
- (PER 10/06/2013 COMPREHENSIVE ZONING PLAN) PROPOSED USE: COMMERCIAL - INTERIOR DESIGN BUSINESS (APPROVED WITH BA-14-004C&V) RELATED DPZ FILE #5: HISTORIC SITE HO-209, CEMETERY SITE 21-1; BA-82-22E (PREVIOUS
- CRAFT SHOP USE): BA-14-004C&V: ECP-15-010: WP-15-032. TOTAL AREA OF FLOODPLAIN LOCATED ON SITE = 0.00 AC±
- TOTAL AREA OF SLOPES IN EXCESS OF 15% = 0.00 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 AREA OF FOREST TO BE RETAINED = 0.00 AC+

FISHER, COLLINS & CARTER, INC.

TVIL ENGINEERING CONSULTANTS & LAND SURVEYO

- TOTAL AREA OF LOTS / BUILDABLE PARCELS = 1.49 AC= TOTAL GREEN OPEN AREA = 1.13 AC+
- TOTAL IMPERVIOUS AREA = 0.36 AC+ (INCLUDING EXISTING STRUCTURE)
- TOTAL AREA OF ERODIBLE SOILS = 0.00 AC. ± PARKING SPACES REQUIRED = 3,203 SQ.FT. X 3.3 SPACES PER 1,000 SQ.FT. = 11 SPACES
- PARKING SPACES PROVIDED = 11 SPACES (INCLUDES 1 HANDICAP ACCESSIBLE SPACE)

THOSE PLANS, THE LOD RELATIVE TO THE 40,000 SQUARE FOOT THRESHOLD WILL BE TRACKED CUMULATIVELY. ONCE THE CUMULATIVE LOD EQUALS OR EXCEEDS 40,000 SQUARE FEET IN AREA, THE ENTIRETY OF THE SITE (LESS ANY APPLICABLE DEDUCTIONS SUCH AS 100-YEAR FLOODPLAIN) MUST BE USED AS PROFESSIONAL CERTIFICATION THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 30306, EXPERATION DATE: 01/12/2016.

FOREST CONSERVATION WORKSHEET

BASIC SITE DATA:

C. NET TRACT AREA ...

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)

ARA MOR IDA HOR MPD CIA

F. EXISTING FOREST COVER WITHIN NET TRACT AREA

H. FOREST RETENTION ABOVE THRESHOLD WITH NO MITIGATION

L REFORESTATION FOR CLEARING ABOVE CONSERVATION THRESHOLD.....

*NOTE: FOREST CONSERVATION OBLIGATION FOR THE PROPOSED IMPROVEMENTS HAS

THE PROPOSED LIMIT OF DISTURBANCE IS LESS THAN 40,000 AND THE

BEEN CALCULATED IN ACCORDANCE WITH DPZ POLICY MEMO DATED 9/15/06.

APPLICANT HAS ELECTED TO BASE THE FOREST CONSERVATION CALCULATIONS ON

THE LOD IN ACCORDANCE WITH THE POLICY. FUTURE DEVELOPMENT OF THIS SITE EITHER THROUGH A SERIES OF SITE DEVELOPMENT PLANS OR REDLINES TO

M. REFORESTATION FOR CLEARING BELOW CONSERVATION THRESHOLD

N. CREDT FOR RETENTION ABOVE CONSERVATION THRESHOLD ...

R. TOTAL REFORESTATION AND AFFORESTATION REQUIRED

G. AREA OF FOREST ABOVE CONSERVATION THRESHOLD:

INFORMATION FOR CALCULATIONS:

E. FOREST CONSERVATION THRESHOLD

I. CLEARING PERMITTED WITHOUT MITIGATION ...

J. TOTAL AREA OF FOREST TO BE CLEARED ... K. TOTAL AREA OF FOREST TO BE RETAINED

PROPOSED FOREST CLEARING:

P. TOTAL REFORESTATION REQUIRED.

PLANTING REQUIREMENTS:

5. EXCESS FOREST CREDIT ...

EXISTING FOREST COVER:

A. TOTAL TRACT AREA ... B. DEDUCTIONS

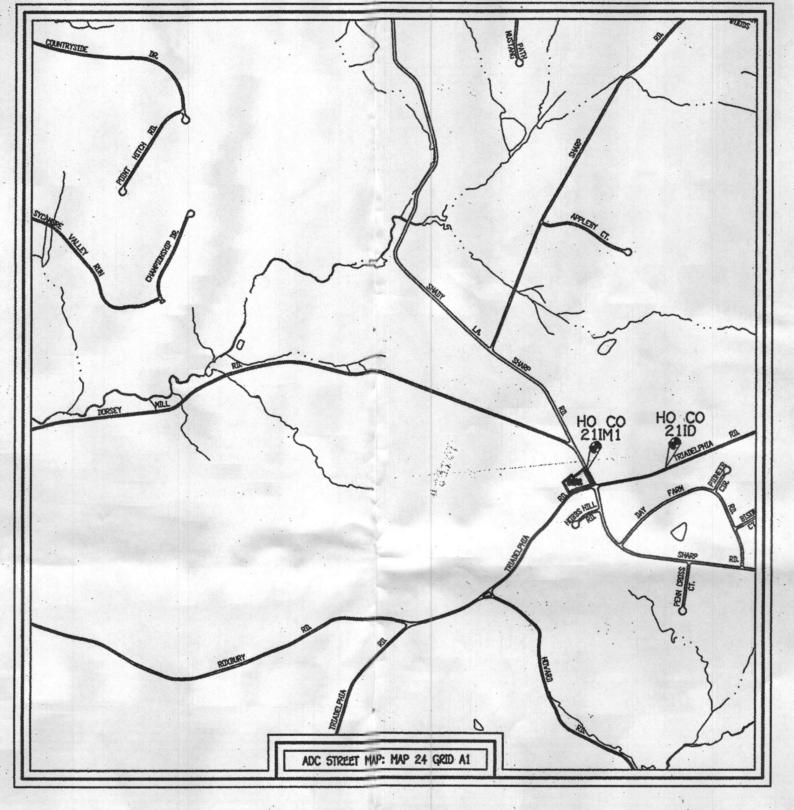
VERSION 1.0

..... 0.15% x D =

0.09

SITE DEVELOPMENT PLAN HOMEWOOD PROPERTIES PARCEL A

TAX MAP No. 21 GRID No. 18 PARCEL NO. 135 HOWARD COUNTY, MARYLAND FOURTH ELECTION DISTRICT



BE	ENCHMARK INFORMATION
B.M.#1	- HOWARD COUNTY CONTROL STATION #21M1 - HORIZONTAL - NAD '83) (LOCATED ALONG SHARP ROAD, 200 FEET NORTH OF THE INTERSECTION WITH TRIADELPHIA ROAD) N 580,489.534 E 1,309,698.018 ELEVATION = 580.72 - VERTICAL - (NAVO '88)
B.M.#2	- HOWARD COUNTY CONTROL STATION #2110 - HORIZONTAL - (NAD '83) (LOCATED ALONG TRIADELPHIA ROAD APPROXIMATELY 900 FEET EAST OF THE INTERSECTION WITH SHARP ROAN 580,541.470 E 1,310,693.627 ELEVATION = 583.44 - VERTICAL - (NAV0 '88)

ADD	ress chart
PARCEL NO.	STREET ADDRESS
104 & 135	14290 TRIADELPHIA ROAD

LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
492	EXISTING 2' CONTOURS	102	PROPOSED CONTOUR		
490	EXISTING 10' CONTOURS	+362.5	SPOT ELEVATION		
Gg8 Gm8	SOILS LINES AND TYPE	LOD	LIMITS OF DISTURBANCE		
~~~~	EXISTING TREELINE		DRAINAGE AREA DIVIDE		
क्धु571	SPECIMEN TREE		PROPOSED PAVING		
<b>O</b> 36	BORING (PERC) TEST HOLE	—P—	TREE PROTECTION		
	NON-ROOFTOP, DISCONNECTION (N-2)	—-5F——	SILT FENCE		
SO S	EXISTING LANDSCAPING	ECM	EROSION CONTROL MATTING		
90			SUPER SILT FENCE		
Δ	The state of the s		STABILIZES CONSTRUCTION ENTRANCE		
*	EXISTING GRAVE STONES		EXISTING GRAVE ISLE MARKERS		
	EXISTING GRAVEL DRIVE TO BE REMOVED		EXISTING GRAVEL DRIVE TO REMAIN		
— x —	EXISTING WHITE VINYL FENCE	TBA	TO BE ABANDONED		

### GENERAL NOTES

SUBJECT PROPERTY IS ZONED RC-DEO PER THE 10/06/2013 COMPREHENSIVE ZONING PLAN. TOTAL PROJECT AREA = 1.49 AC.+
AREA OF PLAN SUBMISSION =1.49 AC.+
LIMIT OF DISTURBED AREA = 0.62 AC+

EXISTING USE = EXISTING (VACANT) CHURCH
PROPOSED USE = INTERIOR DESIGN BUSINESS (BA-14-004C&V)
NUMBER OF PARKING SPACES REQUIRED = 3,203 SQ.FT. X 3,3 SPACES PER 1,000 SQ.FT. = 11 SPACES
NUMBER OF PARKING SPACES PROVIDED = 11 SPACES (INCLUDES 1 HANDICAP ACCESSIBLE SPACE).
DEED REFERENCE: LIBER 14715, FOLIO 33 & LIBER 15791, FOLIO 469.

DEED REPERENCE: LIBER 14715, FOLIO 33 & LIBER 15791, FOLIO 469.

LOCATION: 14290 TRIADELPHIA ROAD, GLENELG, MARYLAND 21737.

RELATED DPZ FILE NUMBERS: 8A-14-004C&V; HISTORIC SITE HO-209; CEMETERY SITE 21-1; BA-82-22E (PREVIOUS CRAFT SHOP USE); ECP-15-010;

WP-15-032; F-15-037.

3. THIS PROPERTY IS NOT WITHIN THE METROPOLITAN DISTRICT.

4. THIS PROPERTY IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REQULATIONS EFFECTIVE 10/2/03 PER COUNTY-2003.

THE ENTROMENT FOR INDIVIDUAL SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENTRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.

6. SOIL BOUNDARIES ARE BASED ON NRCS WEBSOIL SURVEY.

5. SOIL BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PERFORMED BY NIR & ASSOCIATES, LLC IN JANUARY 2013.

8. TOPOGRAPHY SHOWN HEREON IS BASED ON A TOPOGRAPHIC SURVEYS PERFORMED BY PISHER, COLLINS & CARTER, INC. DATED AUGUST 2014, NIR & ASSOCIATES, LLC IN JANUARY 2013, AND SUPPLEMENTED WITH HOWARD COUNTY GIS TOPOGRAPHY AT 5' CONTOUR INTERVAL INTERPOLATED FOR 2' CONTOUR INTERVAL AND FIELD LOCATIONS BY FISHER, COLLINS & CARTER, INC. IN DECEMBER 2013.

9. THERE ARE NO FLOODPLAINS, WETLANDS, STREAMS, OR THEIR BUFFERS, STEEP SLOPES, OR CEMETERIES ON THIS SITE. A CEMETERY IS LOCATED ADJACENT TO

THE PROPERTY (TO THE NORTH).

10. NO WETLANDS OR FOREST STANDS EXIST PER FIELD INVESTIGATION BY ECO-SCIENCE PROFESSIONALS DATED AUGUST 2014 THE EXISTING STRUCTURE, FORMERLY THE M.E.C.S. CHURCH, IS LISTED ON THE HISTORIC SITES INVENTORY AS HO-209. THE EXISTING STRUCTURE DATES TO 1989 AND WENT BEFORE THE HISTORIC DISTRICT COMMISSION ON FEBRUARY 6, 2014. THE COMMISSION DETERMINED THE CHANGES TO THE STRUCTURE WERE ARCHITECTURALLY COMPATIBLE WITH THE HISTORIC NATURE OF THE BUILDING. THE CEMETERY ISSUES WERE NOT PART OF THE APPLICATION TO THE HDC. EXISTING STRUCTURE TO REMAIN AND EXISTING GRAVEL ACCESS DRIVE & PARKING TO BE RECONFIGURED AND PAVED.

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE

STATE HIGHWAY ADMINISTRATION BGE(CONTRACTOR SERVICES) 410.850.4620 GELUNDERGROUND DAMAGE CONTROL) 410.787.906 COLONIAL PIPELINE COMPANY 410,795,139 HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES HOWARD COUNTY HEALTH DEPARTMENT 410 313 490 410.313.264 .800.252.113 1.800.743.0033/410.224.9210

14. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 40 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

15. ANY DAMAGE TO PUBLIC RIGHT-OF WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

16. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT (410) FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.

17. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY IN

19. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.

19. EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS, AND MISS UTILITY MARKINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED

20. ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES. 21. ALL TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL

THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINA

23. ALL DITCHES AND SWALES WILL HAVE EROSION CONTROL MATTIN

THE ROAD.

26. SINCE THIS IS AN ALREADY BUILT SITE. THE LIMIT OF DISTURBANCE IS BEING UTILIZED A

26. SINCE THIS IS AN ALREADY BUILT SITE, THE LIMIT OF DISTURBANCE IS BEING UTILIZED AS THE NET TRACT AREA TO DETERMINE FOREST CONSERVATION REQUIREMENTS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION ACT. THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY PAYMENT OF A FEE-IN-LIEU OF AFFORESTATION IN THE AMOUNT OF \$1,724.39 (3,920.4 50.FT.) FOR 0.09 ACRES (3,920.4 50.FT.) OF AFFORESTATION.

27. FOREST CONSERVATION OBLIGATION FOR THE PROPOSED IMPROVEMENTS HAS BEEN CALCULATED IN ACCORDANCE WITH DPZ POLICY MEMO DATED 9/15/06. THE PROPOSED LIMIT OF DISTURBANCE IS LESS THAN 40,000 AND THE APPLICANT HAS ELECTED TO BASE THE FOREST CONSERVATION CALCULATIONS ON THE LOD IN ACCORDANCE WITH THE POLICY. FUTURE DEVELOPMENT OF THIS SITE EITHER THROUGH A SERIES OF SITE DEVELOPMENT PLANS OR REQUIRES TO THOSE PLANS, THE LOD RELATIVE TO THE 40,000 SQUARE FOOT THRESHOLD WILL BE TRACKED CUMULATIVELY. ONCE THE CUMULATIVE LOD EQUALS OR EXCEEDS 40,000 SQUARE FEET IN AREA, THE ENTIRETY OF THE SITE (LESS ANY APPLICABLE DEDUCTIONS SUCH AS 100-YEAR FLOODPLAIN) MUST BE USED AS THE NET TRACT AREA (NTA).

28. EXISTING WELL WILL BE UTILIZED. EXISTING SEPTIC SYSTEM MUST BE ABANDONED AND REPLACED WITH NEW SEPTIC SYSTEM UTILIZING A BAT UNIT AND A LOW PRESSURE DOSED DISTRIBUTION SYSTEM. ALL INITIAL AND REPLACEMENT SEPTIC LATERALS AND TRENCHES LOCATED UNDER PAVEMENT MUST BE INSTALLED DURING INITIAL INSTALLATION. SEPTIC SYSTEM MUST BE REPLACED PRIOR TO HEALTH SIGNATURE OF A BUILDING PERMIT.

29. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. SINCE EXISTING STRUCTURE IS TO REMAIN AND ONLY A PARKING AREA / ACCESS DRIVE IS BEING CREATED, ONLY LANDSCAPING TO BUFFER THE PARKING AREA HAS BEEN PROVIDED. FINANCIAL SURETY IN THE AMOUNT OF \$2,790 FOR 3 SHADE TREES, 3 EVERGREENS, AND 40 SHRUBS WILL BE POSTED AS PART OF THE DPW

DEVELOPERS ACREEMENT.

30. 95% COMPACTION IN FILL AREAS SHALL BE IN ACCORDANCE WITH AASTHO T-180 STANDARDS.

31. UNDER BA-14-004C&V, A CONDITIONAL USE PETITION HAS BEEN APPROVED FOR THE INTERIOR DESIGN BUSINESS USE ALONG WITH A VARIANCE TO REDUCE THE REAR SETBACK FROM 30 FEET TO 9.8 FEET FOR A DECK AND TO REDUCE THE REAR SETBACK FROM 30 FEET TO 21.9 FEET FOR THE EXISTING BUILDING HAS

BEEN APPROVED (SEE DIMENSIONS WITH ASTERISKS (*) ON THE PLAN). DECISION & ORDER DATED MAY 20, 2014 AND RECONSIDERATION REMOVING PREVIOUS

REAR SEIBACK FROM 30 FEET TO 9.9 FEET FOR A DECK AND TO REDUCE THE REAR SEIBACK FROM 30 FEET TO 21.9 FEET FOR THE EXISTING BUILDING HAS BEEN APPROVED (SEE DIMENSIONS WITH ASTERISKS (\$) ON THE PLAN). DECISION & ORDER DATED MAY 20, 2014 AND RECONSIDERATION REMOVING PREMIOUS CONDITION OF APPROVAL #3 DATED JUNE 4, 2014, JUNE 4, 2014 APPROVAL WAS GRANTED WITH THE FOLLOWING CONDITIONS:

(1) THE CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH AND SHALL APPLY ONLY TO THE CONDITIONAL USE FOR AN HISTORIC BUILDING TO BE USED AS AN INTERIOR DESIGN BUSINESS WITH LIMITED PRIVATE HAD SHALL APPLY ONLY TO THE CONDITIONAL USE FOR AN HISTORIC BUILDING TO SUBMITTED ON FEBRUARY 24, 2014, AND NOT TO ANY OTHER ACTIVITIES, USES, OR STRUCTURES ON THE PROPERTY.

(2) NO PUBLICLY ADVERTISED RETAIL SALES ARE PERMITTED.

(3) PETITIONER SHALL OSTAIN A WAIVER FROM THE LIND DEVELOPMENT AND SUBDIMISION REGULATIONS SECTION 16.118(c), WHICH PROHIBITS GRADING AND CONSTRUCTION WITHIN 30 FEET OF A CEMETERY AND 10 FEET OF INDIVIDUAL GRAVESITES.

(4) PETITIONER SHALL DEMONSTRATE TO THE SATISFACTION OF THE DEPARTMENT OF PLANING AND ZONING THAT IT HAS OSTAINED TITLE TO THE TRANQUAR PORTION OF LAND IDENTIFIED BY THE DEPARTMENT AS PARCEL 104 PRIOR TO MAKING ANY CHANGES TO THE LAND AREA AT ISSUE OR COMMENCING USE OF THIS AREA PETITIONER SHALL RECORD A PLAT OR OSTAIN A WAIVER AND RECORD AN ADJOINER DEED TO COMBINE THE TWO PARCELS.

(5) PETITIONER SHALL COMPLY WITH ALL AGENCY COMMENTS.

32. NO EXPANSION OF THE EXISTING STRUCTURE IS PROPOSED, THEREFORE A COMMUNITY MEETING, WAS NOT REQUIRED.

33. THERE ARE NO KNOWN CEMETERS OR BURIAL GROUNDS LOCATED ON-STRE WITHIN THE LIMITS OF THIS PARCEL. HOWEVER, UPON DISCOVERY OF ANY EVIDENCE OF BURIAL, OR GRAVES, THE DEVELOPER WILL BE SUBJECT TO SECTION 16.1305 OF THE HOWARD COUNTY SUBDIMISION AND LAND DEVELOPMENT REGULATIONS.

34. NINE (9) SPECIMEN TREES EXIST ON-SITE, ALL OF WHICH ARE TO BE RETAINED.

35. PORTIONS OF THE EXISTING STRUCTURE WHICH ARE LOCATED BY THAT THEY EXISTED PRIOR TO THIS SITE DEVELOPMENT PLAN LINE AND IS A ACCORDANCE WITH THE BA-14-004C&V DECISION AND ORDER.

37. WP-15-032 VAS APPROVED ON NOVEMBER 4, 2014 WAIVING SECTION 16.110(c) WHICH REQUIRES THAT NO GRADING OR CONSTRUCTION SHALL BE PERMITTED WITHIN 30 FET OF A CEMETERY BOUNDARY OR WITHIN 10 FEET OF INDIVIDUAL GRAVES. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

(1) REVIW AND APPROVAL OF A GRAVE LOCATION SURVEY IS REQUIRED WITH THE SUBDIVISION PLAT, F-15-037. THIS SURVEY IS REQUIRE TO INSURE THAT THE CEMETERY LIMITS AND NO INDIMIDUAL GRAVE(S) EXIST ON THIS SITE. IF THE FINDINGS OF THE GRAVE LOCATION SURVEY SHOW THAT ANY PORTION OF THE CEMETERY OR ANY INDIMIDUAL GRAVE(S) EXIST WITHIN THIS SITE, THEN THE SUBDIMISION PLAT SHALL BE DESIGNED TO BE IN ACCORDANCE WITH THE CEMETERY PRESERVATION REQUIREMENTS AS OUTLINED IN SECTION 16.1304 OF THE SUBDIMISION AND DEVELOPMENT REGULATIONS AND PLANNING

(2) WAVE APPROVAL FOR CONSTRUCTION WITHIN 30-FEET OF THE CEMETERY BOUNDARY IS TO COINCIDE WITH THE LIMIT OF DISTURBANCE (LOD) AS APPROVED UNDER SDP-15-010. THE LOD FOR THE PROPOSED IMPROVEMENTS SHALL COINCIDE WITH THE LIMITS OF THE PREVIOUS DISTURBED AREA FOR THE EXISTING GRAVEL DRIVE AND PARKING AREAS WHICH ARE SHOWN ON THE WAVER PETITION EXHIBIT TO BE LOCATED APPROXIMATELY 22-FEET FROM

THE EXISTING GRAVEL DRIVE AND PARKING AREAS WHICH ARE SHOWN ON THE WAVER PETITION EXHIBIT TO BE LOCATED APPROXIMATELY 22-FEET FROM THE FENCE AND BOUNDARY OF THE OFF-SITE CEMETERY AT THE CLOSEST POINT.

GRAING OR CONSTRUCTION WITHIN 10-FEET OF AN INDIVIDUAL GRAVE(S) HAS NOT BEEN APPROVED UNDER THIS WAVER PETITION REQUEST.

BASID ON THE PROPOSED LOD SHOWN ON THE SOP AND WAVER PETITION EXHIBIT, NO GRADING OR CONSTRUCTION TO THE AREA BETWEEN THE REAR OF THE EXISTING CHURCH STRUCTURE AND THE CEMETERY IS APPROVED UNDER THIS WAVER PETITION REQUEST.

UNDER DISCOVERY OF ANY EVIDENCE OF BURIAL OR GRAVES, THE DEVELOPER WILL BE SUBJECT TO SECTION 16.1305 OF THE HOWARD COUNTY SUBJINISION AND LAND DEVELOPMENT REGULATIONS. BURIAL GROUNDS SHALL NOT BE DISTURBED EXCEPT AS PERMITTED BY STATE LAW.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS. APPROVED: DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY HEALTH DEPARTMENT 8-10-15 8.5-15 Date 8/3/15 COUNTY HEALTH OFFICER thief, Development Engineering Division PARCEL NO. OWNERS HOMEWOOD INTERIORS, PARCEL A N/A 135 HOMEWOOD PROPERTIES, LLC PLAT REF. BLOCK NO. CENSUS TR. ZONE TAX/ZONE | ELEC. DIST. 14290 TRIADELPHIA ROAD GLENELG, MD 21737 604002 RC-DEO FOURTH (410) 489-5600

TITLE SHEET

## HOMEWOOD PROPERTIES, PARCEL A

## 14290 TRIADELPHIA ROAD

SHEET 1 OF 5

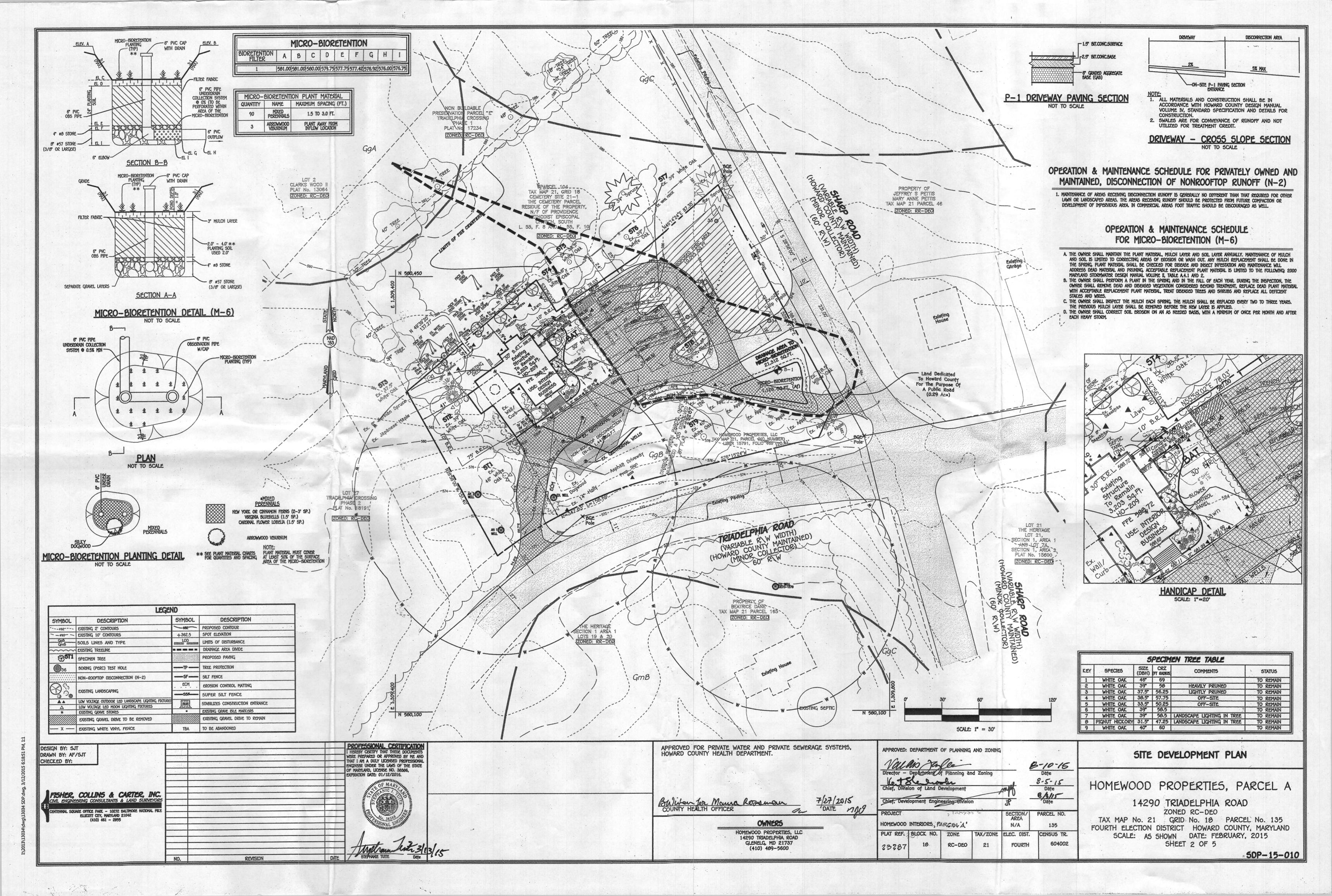
ZONED RC-DEO TAX MAP No. 21 GRID No. 18 PARCEL No. 135 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: FEBRUARY, 2015

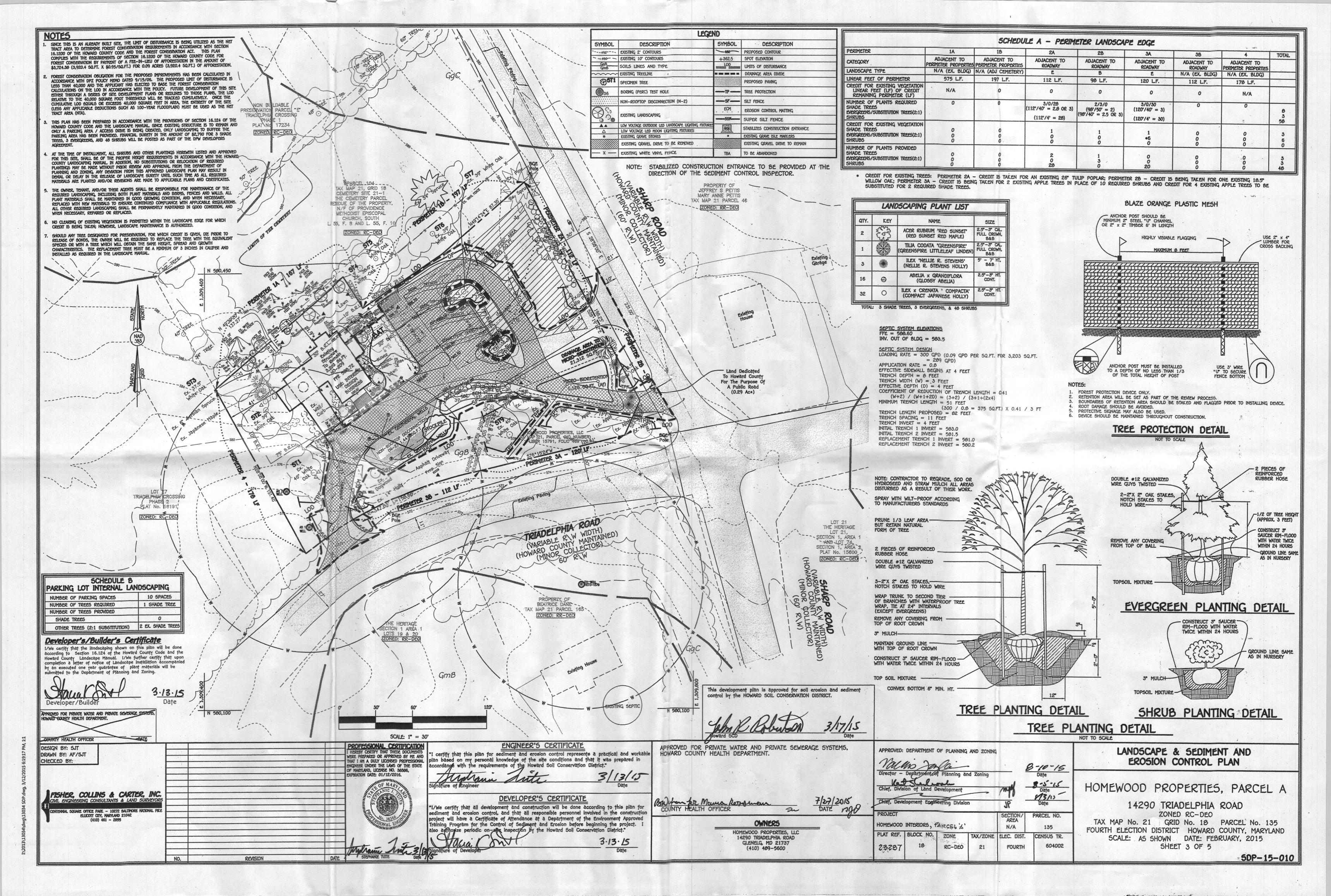
5DP-15-010

DESIGN BY: SJT

CHECKED BY:

DRAWN BY: AF/5JT





### SOIL PREPARATION, TOPSOILING 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.

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:

i. Soil pH between 6.0 and 7.0.

Soluble salts less than 500 parts per million (ppm). 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.
v. Soil contains sufficient pore space to permit adequate root penetration.

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.

1. 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 levels, low pH,

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

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, sitt 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.

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

b. 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. 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 through

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

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 octeria and make the inoculant less effective.

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.
i. 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.
 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).
i. 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

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. DESIGN BY: SJT

Mulch Materials (in order of preference)

a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weeds 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 a uniform fibrous

. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate 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

iv. 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

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.

c. Wood cellulose fiber used as mulch must be applied to a net dry weight of 1500 pounds per acre. Mix the wood

Anchoring

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 area 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

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

heavier 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

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

. 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 8-4-3.4.1. b and maintain until the next seeding season. Temporary Seeding Summary

Hardiness Zone (from Figure B. Seed Mixture (from Table B.1):		3): <u>6b</u>		Fertilizer Rate (10-20-20)	Lime Rate
Species	Application Rate (lb/ac)	Seeding Dațes	Seeding Depths		
BARLEY	96	3/1 - 5/15, 8/15 - 10/15	1"	436  b/ac (10  b/ 1000 sf)	2 tons/ac (90 lb/ 1000 sf)
0ATS	72		1*		
RYE .	112		1"		

### PERMANENT SEEDING NOTES (8-4-5) A. Seed Mixtures

1. General Use

a. Sect one or more of the species or mixtures listed in Table 8.3 for the appropriate Plant Hardiness Zone (from rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan. b. Additinal planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special surposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office

c. For ites 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 dore) at the time of seeding in addition to the soil amendments shown in the fermanent Seeding Summary,

2. Tufgrass Mixtures

a. Areas where turforass 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 seected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.

i. Kentuky 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 Rysgrass 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.

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 Cultivers 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3

Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland"

Choise 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 reable means of consumer protection and assures a pure genetic line

c. Idal 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 (Hardinss Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15

d. Till treas 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 moving of grasses will pose no difficulty. e. I 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 seelings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

### Permanent Seeding Summary

Hardiness Zone (from Figure 8.3): 6b Seed Mixture (from Table 8.3): 8			Fertilizer Rate (10-20-20)			Lime Rate		
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P ₂ O ₅	K ₂ 0	
8	TALL FESCUE	100	Mar. 1-May 15 Aug. 15-Oct. 15	1/4-1/2 in.	per dere	(2 lb/	(2 lb/	2 tons/ac (90 lb/
					(1.0 lb/ 1000 sf)	1000 sf)	1000 sf)	1000 sf)

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

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

b. Sod must be machine cut at a uniform soil thickness fo % inch, plus or minus % 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.

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

e, Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period must be

approved by an agronomist or soil scientist prior to its installation. a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to

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 hat all joints are butted tight in order to prevent voids which would cause dir drying of the roots. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or

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.

otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying

a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sou during the heat of the day to prevent wilting. b. After the first week, sod watering is required as necessary to maintain adequate moisture conten c. Do not mow until the sod is firmly rooted. No more than 15 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. 8-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREAS

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.

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 B-3 Land Grading.

3. Runoff from the stockpile area must drain to a suitable sediment control practice.

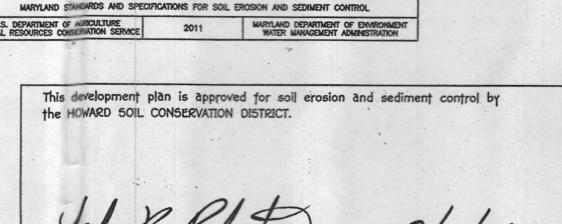
4. Access the stockpile area from the upgrade side
5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
6. Where runoff 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 B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.

8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpile 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 8-3 Land Grading.

## SCE S ENTRANCE MOUNTABLE BERM_ (6 IN MIN.) NONWOVEN GEOTEXTILE -PIPE (SEE NOTE 6) PROFILE 50 FT MIN. W PLAN VIEW CONSTRUCTION SPECIFICATIONS PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEE THE SUBJECT OF SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EQISTING 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 MINIBLES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSORS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO AD MOENT 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.

STABILIZED CONSTRUCTION



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

OWNERS 14290 TRIADELPHIA ROAD GLENELG, MD 21737 (410) 489-5600

HOWARD SOIL CONSERVATION DISTRICT

STANDARD SEDIMENT CONTROL NOTES 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS,

CONTROL DIMISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).

2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.

CONTROL AND REVISIONS THERETO.

3) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 3 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

4) 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 PERMANENT SEEDING (SEC. B-4-5), DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION WITH MULCH ALONE CAN ONLY BE 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 HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

6) SITE ANALYSIS: TOTAL AREA OF SITE AREA DISTURBED 0.34 ACRES 0.11 ACRES AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED TOTAL CUT TOTAL FILL 0.23 ACRES 250 CU.YD5.

OFFSITE WASTE/BORROW AREA LOCATION

N/A

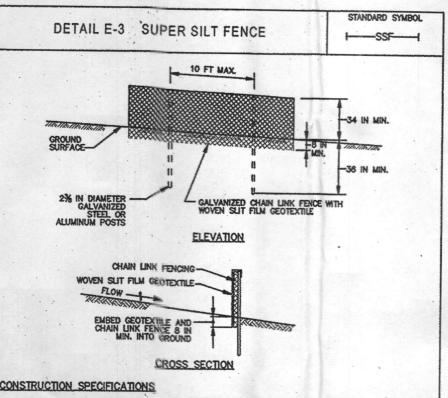
7) ANY SEDIMENT CONTROL PRACTICE THAT IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON 8) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL

9) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

10) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.

11) ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH CONSTRUCTION.

12) A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 ACRE 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 PROCEEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE



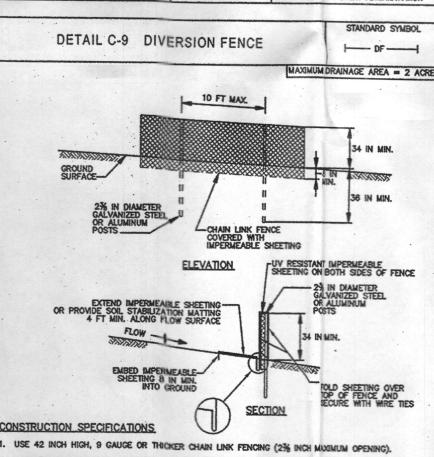
INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOO LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A WINIMUM OF 36 INCHES

FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MIXIBILIUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.

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 IENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT, REPLACE GEOTEXTILE IF TORN, IF UNDERLINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND EDIMENT CONTROL MARYLAND REPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION 2011



. USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2% INCH MIXIMUM OPENING). USE 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. THE POSTS DO NOT NEED TO BE SET IN

FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES

 EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND, SOIL STABILIZATION MATTING MAY BE USED IN LEV OF IMPERMEABLE SHEETING ALONG FLOW SURFACE. . WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 8 NOHES AND FOLD WITH SEAM FACING DOWNGRADS.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MARYLAND DEPARTMENT OF ENVIRONMENT ADMINISTRATION

APPROVED: DEPARTMENT OF PLANNING AND ZONING Director - Department of Planning and Zoning 8-10-15 KetBelook 2-2-12 Chief, Division of Land Developmen 13/15 Date .IP SECTION/ PARCEL NO.

RC-DEO

33787

TAX/ZONE

N/A

ELEC. DIST.

FOURTH

135

CENSUS TR.

604002

SEDIMENT & EROSION CONTROL NOTES & DETAILS

AND ON A DAILY BASIS.

(2 WEEKS)

HOMEWOOD PROPERTIES, PARCEL A

14290 TRIADELPHIA ROAD

DETAIL E-1

STEP 3

SILT FENCE

ELEVATION V

CROSS SECTION

JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)

USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART

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

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 ACCORDANC WITH THIS DETAIL.

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

2011

TABILIZATION MATTING

ISOMETRIC VIEW

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 MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 NICHES AND SUFFICIENTLY BOXDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AND 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 WRE 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 NICH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE BOTTOM.

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

UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE. 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.

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 SCIL/MAT CONTACT WITHOUT CRUSHING MAT.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

2011

SEQUENCE OF CONSTRUCTION

2. NOTIFY "MISS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT

PROTECTIVE FENCING, AND DIVERSION FENCING (AS NECESSARY). (2 DAYS)

MICRO-BIORETENTION AREA, AND INSTALL PERMANENT SEEDING. (5 DAYS)

AT 410-313-1330 AT LEAST 24 HOURS BEFORE STARTING WORK.

REMOVE TREES IDENTIFIED AS TO BE REMOVED (TBR). (1 DAY)

SEDIMENT CONTROL DEVICES MAY BE REMOVED. (3 DAYS)

OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTOR.

1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/ INSPECTION

ROUGH GRADE AS NECESSARY, LAY OR RE-LAY STONE BASE OF ACCESS DRIVE / PARKING

ALL FINAL GRADES AND STABILIZATION SHOULD BE COMPLETED BEFORE ANY REMOVAL OF

STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE

NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE EACH RAINFALL

CONTROLS. WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN

AREA IN AREAS SHOWN THEN TOP PAVE ENTIRE ACCESS DRIVE / PARKING AREA. (1 WEEK) FINE GRADE SITE, INSTALL EROSION CONTROL MATTING, INSTALL LIGHTING, CONSTRUCT

INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, SUPER-SILT FENCE, TREE

10. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION 8-4 VEGETATIVE STABILIZATION.

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

CHANNEL APPLICATION

DETAIL B-4-6-C PERMANENT SOIL

CONSTRUCTION SPECIFICATIONS:

WIST POSTS TOGETHER

FINAL CONFIGURATION

STAPLE-

STAPLE

PSSMC - * Ib/ft
(* INCLUDE SHEAR STRESS)

6 FT MAX. CENTER TO CENTER

DRIVEN MIN. FENCE POST LENGTH DRIVEN MIN. 16 IN INTO GROUND

ZONED RC-DEO TAX MAP No. 21 GRID No. 18 PARCEL No. 135 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: NOT TO SCALE DATE: FEBRUARY, 2015

SHEET 4 OF 5

50P-15-010

DRAWN BY: AF/SJT CHECKED BY:

FISHER, COLLINS & CARTER, INC TVIL ENGINEERING CONSULTANTS & LAND SURVEYORS WHAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE (410) 461 - 2855

certify that this plan for sediment and erosion control represents a practical and workable WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENCONFER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: 01/12/2016.

PROFESSIONAL CERTIFICATION

an based on my personal knowledge of the site conditions and that it was prepared in ccordance/with the requirements of the Howard Soil Conservation District."

DEVELOPER'S CERTIFICATE I/We certify that all development and construction will be done according to this plan for sediment and erosion, control, and that all responsible personnel involved in the construction

roject will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. also authorize periodic on-site inspection by the Howard Soil Conservation District."

ENGINEER'S CERTIFICATE

3.13.15

3/13/15

HOMEWOOD INTERIORS, PAR CEL 4' HOMEWOOD PROPERTIES, LLC PLAT REF. | BLOCK NO. |