GENERAL NOTES -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 START OF WORK. -THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT

THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK. THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS: VERIZON TELEPHONE COMPANY: 1-410-954-6281

HOWARD COUNTY BUREAU OF UTILITIES: 410-313-2366 1-800-393-3553 AT&T CABLE LOCATION DIVISION: B.G.&E. CO. CONTRACTOR SERVICES: 410-850-4620 B.G.&E, CO. UNDERGROUND DAMAGE CONTROL:

DEVELOPMENT PLAN, WAIVER PETITION, OR BUILDING AND GRADING PERMITS.

STATE HIGHWAY ADMINISTRATION: ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED. THIS SDP PLAN IS SUBJECT TO THE FOLLOWING DPZ FILES: F-99-117. ECP-14-045, SP-14-005, WP-14-122, AND F-16-027. A PRE-SUBMISSION COMMUNITY MEETING WAS HELD FOR THIS PROJECT AT ELKRIDGE SENIOR CENTER ON 09/10/2013 IN COMPLIANCE WITH SECTION 16.128 OF THE REGULATIONS. AN ENVIRONMENTAL CONCEPT PLAN (ECP-14-045) WAS APPROVED FOR THIS PROJECT.

THE SUBJECT PROPERTY IS ZONED "R-12" IN ACCORDANCE WITH THE 10/6/2013 COMPREHENSIVE ZONING PLAN AND IS SUBJECT TO THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS EFFECTIVE 10/2/03 PER COUNCIL BILL 75-2003.

THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL TOPOGRAPHY PREPARED BY MCKENZIE-SNYDER DURING DECEMBER, 2012. THE PROJECT BOUNDARY IS BASED ON BOUNDARY SURVEYS BY GUTSCHICK, LITTLE, AND WEBER, P.A., DATED JANUARY, 2013. SEE PLAT#24180-24182. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY BENCHMARKS 43CB AND 43CC WERE USED FOR THIS PROJECT.

THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. DEVELOPMENT OR CONSTRUCTION OF THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE

STORMWATER MANAGEMENT FOR THIS SITE WILL BE PROVIDED IN ACCORDANCE WITH CHAPTER 5 OF THE MDE STORMWATER DESIGN MANUAL. BASED

ON TABLE 5.3, THIS SITE HAS A TARGET PE OF 1.8". IN ORDER TO FULFILL THE STORMWATER MANAGEMENT REQUIREMENTS A COMBINATION OF ROOFTOP DISCONNECT (N-1), SHEET FLOW TO CONSERVATION AREA (N-3), RAIN BARRELS (M-1), DRY WELLS (M-5), BIO-SWALES, (M-8), AND MICRO-BIORETENTION (M-6) WILL BE USED. A SURFACE SAND FILTER (F-1) WILL BE USED TO PROVIDE ANY REMAINING ESD VOLUME NOT PROVIDED BY THE CHAPTER 5 DEVICES AND TO PROVIDE 100 YEAR MANAGEMENT FOR THE SITE.

-THE MICRO-BIORETENTION FACILITIES (M-6) AND SAND FILTER (F-1) WILL BE PUBLICLY OWNED AND JOINTLY MAINTAINED BY HOWARD COUNTY AND -ALL OTHER PRACTICES WILL BE PRIVATELY OWNED AND MAINTAINED.

-THIS SITE IS IN THE DEEP RUN WATERSHED AND 100 YEAR MANAGEMENT IS REQUIRED. SOILS DATA WAS TAKEN FROM THE SOIL SURVEY OF HOWARD COUNTY, MARYLAND ISSUED MARCH, 2008.

THE GEO-TECHNICAL REPORT WAS PROVIDED BY HILLIS CARNES DATED APRIL 2014. EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF 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 17. ANY DAMAGE TO THE COUNTY'S RIGHTS-OF-WAY, PAVING, OR EXISTING UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. 18. SHC ELEVATIONS ARE LOCATED AT THE PROPERTY LINE/EDGE OF EASEMENT.

THERE ARE NO EXISTING DWELLING/STRUCTURES LOCATED ON THIS SITE. 0. - IN ACCORDANCE WITH SECTION 128.0 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT FRONT OR REAR YARD SETBACK. REFER TO SHEET 4.

THE PROPOSED UNITS SHALL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM. DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE 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 - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING. (1-1 1/2" MIN.) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% CHANGE AND MINIMUM OF 45-FOOT TURNING RADIUS.

d) STRUCTURES (CULVERT/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 DRIVEWAY SURFACE.

f) STRUCTURE CLEARANCES-MINIMUM 12 FEET. MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE. LOTS 8 & 9 WILL UTILIZE A USE-IN-COMMON DRIVEWAY.

A USE-IN-COMMON MAINTENANCE AGREEMENT FOR THE SHARED DRIVEWAY WAS PREVIOUSLY RECORDED AS L. 17571 F.439. 24. FLAG AND PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE FOR LOTS 8&9 ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY. TRASH AND RECYCLING COLLECTION WILL BE AT MOUNT HOLLY WAY WITHIN 5' OF THE EDGE OF THE COUNTY ROADWAY.

6. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS. -DPZ HAS DETERMINED THAT THE IMPACTS TO ENVIRONMENTAL AREAS ASSOCIATED WITH THE F-16-027 POND CONSTRUCTION ARE NECESSARY IN

ACCORDANCE WITH SUBSECTION 16.116(C) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT -WATER AND SEWER FOR THIS PROJECT WILL, BE VIA CONTRACT NO. 14-4867-D.

-WATER AND SEWER SERVICE WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 18.122.B OF THE HOWARD COUNTY CODE. ALLOCATIONS WILL BE GRANTED AT TIME OF ISSUANCE OF BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME. ALL WATER HOUSE CONNECTIONS SHALL BE OUTSIDE METER SETTING UNLESS OTHERWISE NOTED ON THE PLANS OR IN SPECIFICATIONS. TO THE BEST OF THE OWNERS KNOWLEDGE OR THE HOWARD COUNTY CEMETERY INVENTORY MAP, THERE ARE NO BURIAL GROUNDS, CEMETERIES

-THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT. -TO THE BEST OF THE OWNERS KNOWLEDGE OR THE HOWARD COUNTY HISTORIC SITES MAP, THERE ARE NO HISTORIC STRUCTURES LOCATED ON THE SUBJECT PROPERTY.

2. MOUNT HOLLY WAY IS CLASSIFIED AS AN ACCESS PLACE. -PROJECT ACCESS IS FROM DORSEY RUN ROAD A MAJOR COLLECTOR.

-THE SCENIC ROADS MAP DOES NOT INDICATE ANY SCENIC ROADS IN THE VICINITY.

33. PUBLIC STREET TREES AND PERIMETER LANDSCAPING ARE PROVIDED FOR THIS PROJECT UNDER F-16-027 ACCORDANCE WITH SECTION 16.124 OF THE SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL. FINANCIAL SURETY WAS POSTED AS PART OF THE F-16-027

LANDSCAPING HAS BEEN PROVIDED FOR THIS PROJECT UNDER F-16-027 THE FOREST CONSERVATION REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL HAS BEEN SATISFIED WITH AN OBLIGATION FOR THIS SUBDIVISION OF 2.42± ACRES. -THIS OBLIGATION HAS BEEN MET BY:

0.69± OF AN ACRE OF REFORESTATION - 1,10± ACRES OF CREDITED ON-SITE RETENTION

- 0.63± ACRES HAVE BEEN PROVIDED AT THE CATTAIL CREEK FOREST BANK (SDP-14-031). THE FOREST CONSERVATION SURETY FOR THE ON-SITE FOREST CONSERVATION HAS BEEN POSTED WITH THE F-16-027 DEVELOPER AGREEMENT. DRIVEWAYS SHALL UTILIZE HOWARD COUNTY STANDARD DETAIL NO. R-6.03. NO NOISE STUDY IS REQUIRED FOR THIS PROJECT.

PERCET DATED NOVEMBER 11 2013 AND WAS APPROVED ON JUNE 5, 2014 THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY KLEBASKO ENVIRONMENTAL, LLC., DATED MARCH 24, 2014 AND APPROVED - IN A LETTER DATED SEPTEMBER 6, 2013, MARYLAND DEPARTMENT OF NATURAL RESOURCES DETERMINED THAT THERE ARE NO STATE OR FEDERAL RECORDS FOR RARE, THREATENED, OR ENDANGERED SPECIES WITHIN THE BOUNDARIES OF THE PROJECT SITE AS DELINEATED. THE LETTER ALSO STATED THAT THE SITE CONTAINS FOREST INTERIOR DWELLING BIRD HABITAT.

THE 100-YEAR FLOODPLAIN STUDY FOR THE DEEP RUN WAS TAKEN FROM HOWARD COUNTY RECORDS. 41. THERE ARE NO STEEP SLOPES IN EXCESS OF 20,000 SF LOCATED ONSITE. 42. PER ZONING SECTION 109.0.E, 10% OF THE TOTAL NUMBER OF UNITS (2 UNITS) MUST BE DEDICATED AS MIHU'S. A FEE IN LIEU WILL BE PAID TO SATISFY THE MIHU REQUIREMENTS. THE MIHU AGREEMENT AND COVENANTS WILL BE RECORDED TOGETHER AT THE SAME TIME WITH THE F-16-027

PLAT AT THE LAND RECORDS OFFICE 43. THIS SITE IS NOT WITHIN THE 2007 CERTIFIED AIRPORT NOISE ZONE (65LDN) OR A 4 MILE RADIUS OF BWI. THIS SUBDIVISION DOES NOT REQUIRE THE MARYLAND AVIATION ADMINISTRATION (MAA) APPROVAL. 44. ON MARCH 12, 2015 A DESIGN MANUAL WAIVER OF VOLUME III, SECTION 2.5.B.1 WAS APPROVED TO USE 463' OF INTERSECTION SPACING INSTEAD OF THE REQUIRED 500' FOR A MAJOR COLLECTOR.

45. ON MARCH 12, 2015 A DESIGN MANUAL WAIVER OF VOLUME I, SECTION 5.2.5.A.10.0 REQUIRING A PUBLIC MAINTENANCE TURN-AROUND SECTION 5.2.5.C.5 REQUIRING VEHICULAR ACCESS TO THE FORE-BAY AND BOTTOM OF FACILITY, AND SECTION 5.2.5.A.2 REQUIRING A 25' SETBACK FROM THE ROAD RIGHT OF WAY TO 100 YEAR WATER SURFACE ELEVATION. THESE WAIVERS WERE APPROVED WITH THE CONDITION THAT THE FACILITY BE JOINTLY MAINTAINED BY HOWARD COUNTY AND THE HOME OWNERS ASSOCIATION. 46. WP-14-122, A WAIVER REQUEST FROM SUBDIVISION SECTION 16.1205(a).7, TO ALLOW REMOVAL OF SPECIMEN TREES, AND SECTION 16.121.(e) TO ALLOW PUBLIC ROAD FRONTAGE FOR HOA OS LOT 17 (FORMERLY OS LOT 18) TO BE NO LESS THAN 25' ONTO MOUNT HOLLY WAY AND TO ALLOW THE

TWO POINTS OF FRONTAGE FOR DR&P O.S. LOT 20 (FORMERLY LOT 22) TO BE NO LESS THAN 20' EACH ONTO MOUNT HOLLY WAY AND DORSEY ROAD, WAS APPROVED ON SEPTEMBER 2, 2014 UNDER THE FOLLOWING CONDITIONS: 1. AS MITIGATION FOR THE REQUESTED REMOVAL OF THIRTEEN (13) SPECIMEN TREES LOCATED WITHIN THIS SITE, THE DEVELOPER IS REQUIRED TO USE 2" CALIPER PLANT MATERIALS FOR ALL REQUIRED PLANTINGS WITHIN THE PROPOSED REFORESTATION PLANTING AREAS OF FCE AREAS 1 & 2, AS SHOWN ON THE PRELIMINARY FOREST CONSERVATION PLAN. IF DESIGN CHANGES ARE MADE AT THE FINAL PLAN STAGE AND THE REFORESTATION PLANTING AREAS ARE ELIMINATED, THEN THE DEVELOPER SHALL PLANT AN EQUIVALENT NUMBER OF SHADE TREES WITHIN THE RESIDENTIAL AND OPEN SPACE LOTS AND ADJACENT TO PRIORITY RETENTION AREAS. THESE THIRTEEN (13) SHADE TREES (OR EQUIVALENT) WILL BE IN ADDITION TO AND AN ENHANCEMENT OF ANY REQUIRED PERIMETER LANDSCAPING 2. THE FUTURE REMOVAL OF ANY OF THE REMAINING EIGHT (8) SPECIMEN TREES WHICH ARE LOCATED WITHIN THE LIMITS OF THE SITE (TREES #2, 3, 5, 7, 8,9 11, 13), AND WHICH HAVE NOT BEEN DESIGNATED FOR REMOVAL UNDER THIS WAIVER PETITION WP-14-122 WOULD REQUIRE A NEW WAIVER PETITION APPROVAL IN ACCORDANCE WITH SECTION 16.1205.(a).7 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. 3. DPZ APPROVES PUBLIC FRONTAGE FOR HOA OPEN SPACE LOT 17 TO BE NO LESS THAN 25' ON MOUNT HOLLY WAY.

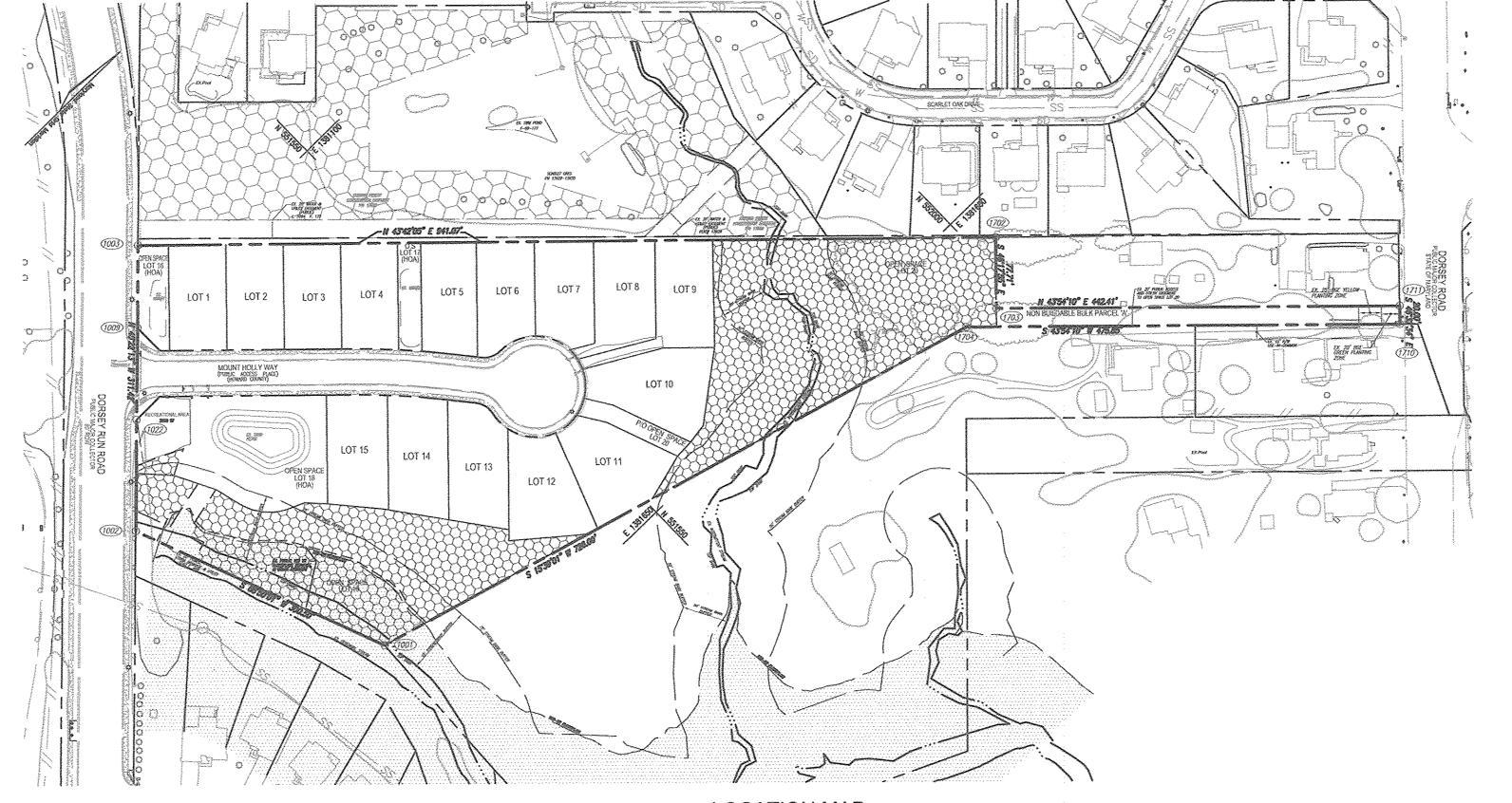
4. COMPLIANCE WITH THE COMMENTS FROM DEVELOPMENT ENGINEERING DIVISION DATED AUGUST 7, 2014, WHICH REQUIRES A 35' PUBLIC STORMWATER MANAGEMENT DRAINAGE & UTILITY EASEMENT FOR SWM MICRO-BIORETENTION WITHIN OPEN SPACE LOT 17. 5. DPZ APPROVES THE TWO POINTS OF PUBLIC ROAD FRONTAGE FOR DR&P OPEN SPACE LOT 20 TO BE NO LESS THAN 20' EACH ONTO MOUNT

8-9-17

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

SITE DEVELOPMENT PLAN DORSEY GLEN

LOTS 1 - 15 HOWARD COUNTY, MARYLAND



PARKING TABULATION:

TOTAL NUMBER OF DWELLING UNITS PROPOSED: 15 PARKING SPACES REQUIRED: 2 SPACES PER UNIT

= 30 SPACES ADDITIONAL PARKING SPACES REQUIRED (VISITOR): 0.5 SPACES PER UNIT X 15 UNITS = 8 SPACES

TOTAL REQUIRED = 38 SPACES 2. PARKING SPACES PROVIDED:

SFD = 2 GARAGE / 2 DRIVEWAY 2 SPACE IN GARAGE = 30 SPACES (FOR 15 UNITS)

2 SPACES ON DRIVEWAY = 30 SPACES (FOR 15 UNITS) TOTAL PARKING SPACES PROVIDED: 60 SPACES

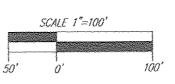
REGULATIONS

1. ALL WATER CONNECTIONS SHALL BE 1-1/2" WITH 1" OUTSIDE METER SETTINGS, UNLESS OTHERWISE NOTED. REFER TO HOWARD COUNTY DETAILS W-3.28 OUTSIDE METER SETTINGS.

MINIMUM LOT SIZE CHART

LOT NUMBER	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
8	8,043 s.f.	281 s.f.	7,762 s.f.
9	8,509 s.f.	1,029 s.f.	7,480 s.f.





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		COORDINATE TAL	BLE ALL S	HEETS	
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
1001	551,235.12	1,381,546.49	1023	551,801.39	1,381,480,41
1002	551,126.62	1,381,266.27	1024	551,721.31	1,381,565.65
1003	551,345.40	1,381,044.64	1025	551,653.10	1,381,618.48
1009	551,282.17	1,381,108.69	1026	551,630.37	1,381,621.71
1010	551,282.68	1,381,143.77	1027	551,597.21	1,381,532.50
1011	551,435.43	1,381,289.75	1028	551,580.21	1,381,505.86
1012	551,507.40	1,381,367.39	1029	551,561.33	1,381,513.45
1013	551,530.35	1,381,395.35	1030	551,579.20	1,381,541.46
1015	551,549.97	1,381,404.50	1031	551,609.45	1,381,622.82
1016	551,496.82	1,381,448.11	1032	551,557.21	1,381,636.72
1018	551,491.69	1,381,427.07	1702	552,025.75	1,381,694.83
1019	551,468.75	1,381,399.10	1703	551,972.05	1,381,751.01
1020	551,400.89	1,381,325.90	1704	551,934.20	1,381,742.33
1021	551,247.56	1,381,179.37	1710	552,277.06	1,382,072.31

551,211.92 1,381,179.89

1711 552,290.82

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J81,546.49	1023	J31,001.J3	1,001,700.71		Lot 9			X	.,		
~~	100	551,721.31	1,381,565.65		Lot 10	<u></u>		X	·····		
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381,404.50	1031	551,609.45	1,301,022.02		5		70)19 MOUNT	HOLLY	WAY	
704 440 44	1032	551,557.21	1,381,636.72	No.	6		7()23 MOUNT	HOLLY	WAY	
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381,427.07	1702	552,025.75	1,381,694.83	MANAGEME	8	ng ting girle Time ang ang Garle San San Line ang ang	70	31 MOUNT	HOLLY	WAY	
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PERMIT INFORMATION CHART								
DIVISION NAME RSEY GLEN	*	1			S/PARCEL # PARCEL 80			
BLOCK NO.	ZONE R-12	TAX MAP			CENSUS TR. 601203			
	DIVISION NAME	DIVISION NAME RSEY GLEN BLOCK NO. ZONE	DIVISION NAME SECTION RSEY GLEN N/ BLOCK NO. ZONE TAX MAP	DIVISION NAME SECTION/AREA N/A N/A BLOCK NO. ZONE TAX MAP ELECT	DIVISION NAME RSEY GLEN BLOCK NO. ZONE TAX MAP ELECT. DIST.			

16-20

ON LOT MICRO-SCALE PRACTICES

LOT NO. (M-1)(M-3)(M-4)(M-5)(M-6)(M-7)(M-8)

7030 MOUNT HOLLY WAY

7026 MOUNT HOLLY WAY 7022 MOUNT HOLLY WAY

7018 MOUNT HOLLY WAY 7014 MOUNT HOLLY WAY

OPEN SPACE

HOWARD COUNTY BENCHMARK - 43CB (CONC. MONUMENT N 552,084.2453 E 1,382,282,4118 ELEV. 144,401 HOWARD COUNTY BENCHMARK - 43CC (CONC. MONUMENT N 553,201.4676 E 1,381,152.8123 ELEV. 163.666

LEGEND

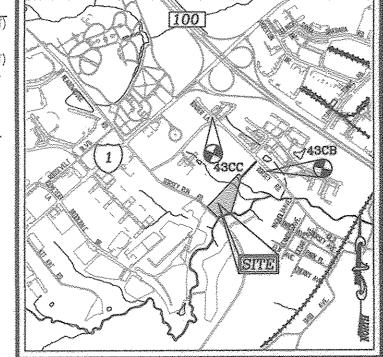
EXISTING CONTOUR --: -:u, sura um, sura YZ ran mar star agen mar istar sem mare PROPOSED CONTOUR EXISTING SPOT ELEVATION $+82^{53}$ PROPOSED SPOT ELEVATION DIRECTION OF FLOW

EXISTING TREES TO REMAIN

SOIL TYPE

LIGHT POLES

CONCRETE



VICINITY MAP

SCALE: 1"=2000 ADC MAP COORDINATE: 35 A-6

SHEET INDEX					
DESCRIPTION	SHEET NO.				
COVER SHEET	1 OF 5				
LAYOUT SHEET	2 OF 5				
GRADING, SEDIMENT AND EROSION CONTROL PLAN	3 OF 5				
SEDIMENT AND EROSION CONTROL NOTES AND DETAILS	4 OF 5				
STORMWATER MANAGEMENT DRAINAGE NOTES AND DETAILS	5 OF 5				

SITE ANALYSIS DATA

A. TOTAL PROJECT AREA: . PRESENT ZONING DESIGNATION: E. PROPOSED USES FOR SITE AND

F. FLOOR SPACE ON EACH LEVEL OF BUILDING PER USE: G. TOTAL NUMBER OF UNITS ALLOWED FOR PROJECT AS SHOWN ON FINAL PLAT:

STRUCTURES:

H. TOTAL NUMBER OF UNITS PROPOSED: I. MAXIMUM NUMBER OF EMPLOYEES, TENANTS ON SITE PER USE:

J. NUMBER OF PARKING SPACES REQUIRED K, NUMBER OF PARKING SPACES PROVIDED

I OPEN SPACE ON SITE NON-CREDITED M. AREA OF RECREATION OPEN SPACE

DEVELOPMENT REGULATIONS: N. BUILDING COVERAGE OF SITE: O. ANY OTHER INFORMATION WHICH MAY BE RELEVANT:

P. FLOOR AREA RATIO: Q. DPZ FILE REFERENCES: R. NUMBER OF REQUIRED MIHU S. NUMBER OF PROVIDED MIHU

2.75 AC - 15 BUILDABLE LOTS SINGLE FAMILY DETACHED

15 BUILDABLE LOTS F-16-027 15 BUILDABLE LOTS

2.5 PER SFD HOUSE REFER TO PARKING TABULATION REFER TO F-16-027

= 0.21 AC3,000 SF - OPEN SPACE LOT 18

TAX MAP 43, BLOCK 6, PARCEL 80 1ST ELECTION DISTRICT

SEE GENERAL NOTE 5 15 BUILDABLE LOTS × 10% ≈ 2 REQUIRED MIHU

O PROVIDED, F-16-027 PAYMENT OF FEE-IN-LIEU

MIHU AGREEMENT PLEASE NOTE THAT ALL NEW LOTS/RESIDENTIAL UNITS IN THIS SUBDIVISION (LOTS 1-15) ARE SUBJECT TO THE MIHU FEE-IN-LIEU REQUIREMENT THAT

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			THE	PERMIT AF	PLICANT.			
No.	LICENSES	AND PER	MITS AT TH	IE TIME O	F BUILDING	PERMIT	SSUANCE	8Y
podecné	IS TO BE	CALCULA	JED AND P	AID TO TH	IE DEPARTM	ENT OF I	NSPECTION	NS,
	11.010							

DEVELOPER OWNER TRINITY HOMES MARY LAND, LLC HAMPTON HILLS LLC 3675 PARK AVENUE 3675 PARK AVENUE ELLICOTT CITY, MD ELLICOTT CITY, MD 21043 443-323-9806 443-323-9806 REVISION

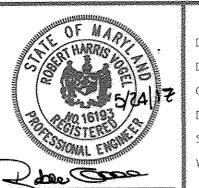
SITE DEVELOPMENT PLAN

COVER SHEET

DORSEY GLEN

AX MAP 43 - GRID 6 - PARCEL 80 ST ELECTION DISTRICT PZ REF: F-99-117, ECP-14-045, SP-14-005, WP-14-122, F-16-027

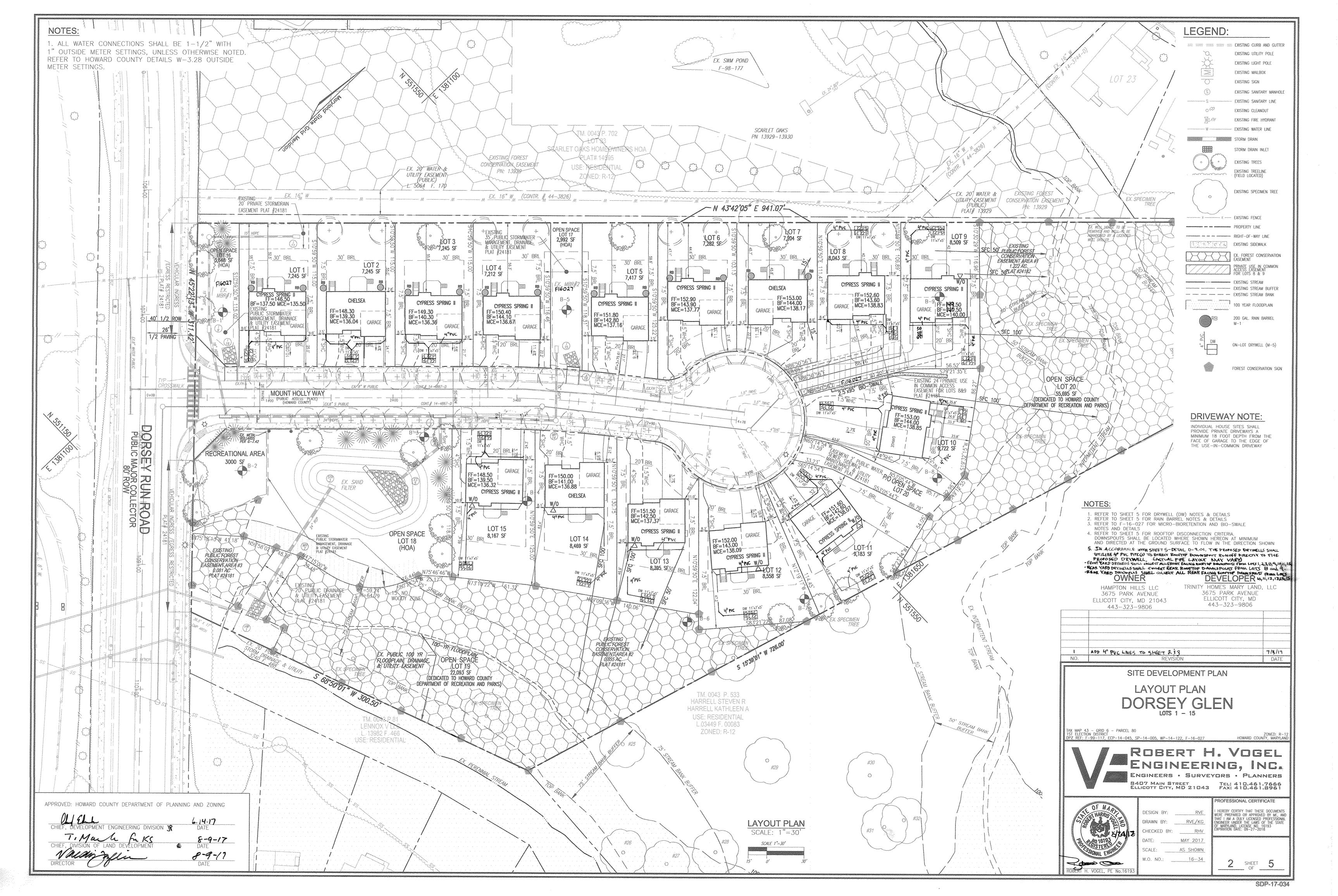
ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS . SURVEYORS . PLANNERS 8407 MAIN STREET TEL: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961

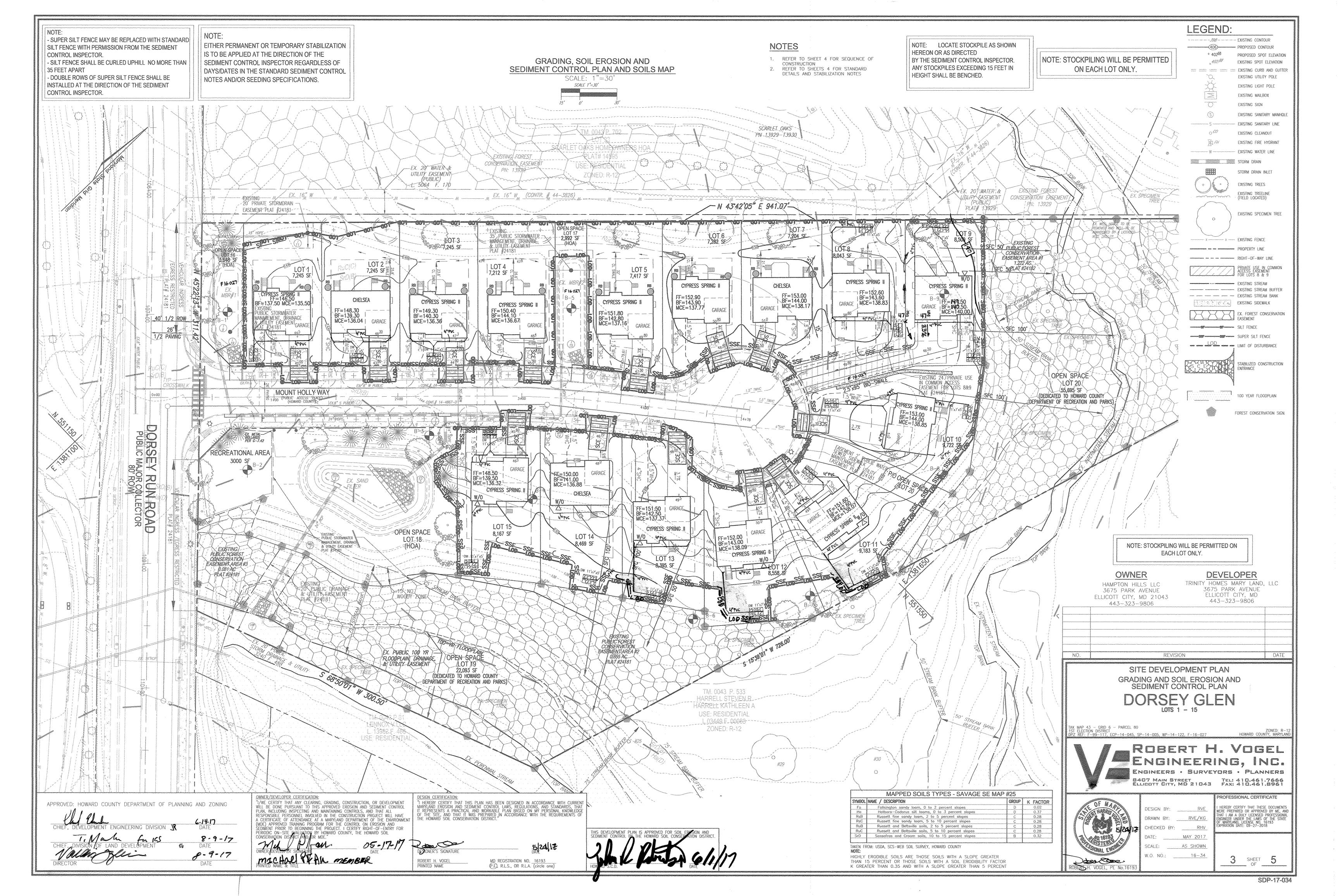


DESIGN BY:	RVI
DRAWN BY:	RVE/KC
CHECKED BY:	RH1
DATE:	MAY 201
SCALE:	AS SHOW
M O NO ·	16-34

MEREDI CERTIFI HAL MESE UCCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A DULY UCENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO. 16193
EXPIRATION DATE: 09-27-2018 SHEET

ROFESSIONAL CERTIFICATE





HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES A PRE-CONSTRUCTION HEETING MISST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PURILS WORKS CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE

ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:

A PRIOR TO THE START OF EARTH DISTURBANCE,
B. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT GEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING,
C. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT,
C. PRIOR TO THE SEMOVAL OR MODIFICATION OF SEDMENT CONTROL PRACTICES.
OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED, TO ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN.
ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDMENT CONTROL, AND REVISIONS THERETO.
FOLLOWING INITIAL SOIL DISTURBANCE OF RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REGULIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SUFFACE OF ALL PERMETER CONTROLS, DIKES, SWALES, DITCHES, PERMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3.11):

SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1);
AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR
THOSE AREAS UNDER ACTIVE GRADING.
ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH
THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR
TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-4), AND THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN, INCREMENTAL STABILIZATION (SE 1-4-8) IN EXCESS OF 20 FT, MUST BE BENCHED WITH STABLE OUTLET, ALL CONCENTRATED FLOW STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6). ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE, AND ARE TO BE MAINTAINED IN OPERATIVE INDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE CID

TE ANALYSIS:
TOTAL AREA OF SITE:
AREA DISTURBED;
AREA TO BE ROOFED OR PAVED:
AREA TO BE VEGETATIVELY STABILIZED:

OFFSITE WASTE/BORROW AREA LOCATION:

OFFSITE WASTE/BORROW AREA LOCATION:

TO BE DETERMINED TO BE DETERMINED TO BE DETERMINED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

ADDITIONAL SEDMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND ALL

 INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT)
 NAME AND TITLE OF INSPECTOR . WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED

BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES

• EVIDENCE OF SEDIMENT DISCHARGES

• IDENTIFICATION OF PLAN DEFICIENCIES

• IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE

• IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS

• COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS

. MONITORING/SAMPLING MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED
 OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE).

TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES.

DISTURBANCE SHALL NOT OCCUR OUTSIDE THE LO.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING

DISTURBANCE SHALL NOT OCCUR OUTSIDE THE LO.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE CID. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GRADIN TIME. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE. TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE. ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMBRICATED AT 25' STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE):

• USE 1 AND IP MARCH 1 - JUNE 15 MINIMUM INTERVALS. WITH LOWER ENDS CURLED UPHILL BY 2' IN ELEVATION • USE I AND IP MARCH 1 - JUNE 15 • USE III AND IIP OCTOBER 1 - APRIL 30

* USE IV MARCH 1 ~ MAY 31

A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT, CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE. ESTIMATE ONLY, CONTRACTOR SHALL VERIFY QUANTITIES TO HIS OWN SATISFACTION.

* TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, WITH AN APPROVED AND ACTIVE GRADING PERMIT.

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

DEFINITION THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION. PURPOSE TO PROVIDE A SUITABLE SOIL MEDIUM FOR VECETATIVE GROWTH. CONDITIONS WHERE PRACTICE APPLIES
WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

TEMPORARY STABLIZATION

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 DISCHARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT, AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRASCED 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 STREAMER 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:

1. SOIL PH BETWEEN 6:0 AND 7.0. III. 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 ROJETORE, AN EXCEPTION: IT COVENINGS WILL BE PRANTED, THEN A SHAUT SOIL (LESS THAN SU PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE. I. SOIL CONTAINS I.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT. I. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. ICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE

C. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARRED 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.

PSOILING

OPSOBLING.

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 CONCEM HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION. SCIL GRADATOR.

TOPSOL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOL 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. . TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:

3. TOPSOLING 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 FLIRNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
D. THE SOIL IS SO ACCRIC 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, SLIT 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 FRAMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1½ INCHES IN DIAMETER.

DIAMETER,

B. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK
GRASS, JOHNSON GRASS, NUT SEDGE, POISON BY, THISTLE, OR OTHERS AS SPECIFIED.

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

Scientist and Approved by the appropriate approval authority, may be used in theo of Natural Topsoil.

6. Topsoil application

A erosion and sediment control practices must be maintained when applying topsoil.

8. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum theckness of 4 inches. Spreading is to 8e performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage any inregularities 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 seeds preparation.

Soil amendments (Ferrilizer and lime Specifications)

PROPER CRADING AND SEEDBED PREPARATION.

SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY, SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.

2. FERTILIZERS MUST BE LINFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE COUPMENT. MANLINE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE 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 HYDROSEFOING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS WHEN HYDROSEEDING) WHICH CONTINUS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WIL PASS THROUGH A \$100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A \$20 MESH SIEVE AND UNITED BY DISKING OR OTHER SUITABLE MEANS.

WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE

SEDIMENT CONTROL NOTES:

A DOUBLE ROW OF "SUPER" SILT FENCE IS TO BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR. STOCKPILES EXCEEDING 15 FEET IN HEIGHT SHALL BE BENCHED. SILT FENCE SHALL BE CURLED UPHILL WHEREVER IT RUNS DOWNHILL L EITHER TEMPORARY OR PERMANENT SEEDING AND STABILIZATION IS TO BE PERFORMED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR AT THE INTERVALS PROVIDED IN THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, WHICHEVER IS MORE STRINGENT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOR.

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

1. SPECIFICATIONS
1. SPECIFICATIONS
2. ALL SEED MUST MEET THE REQUIREMENTS 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.
3. MUJCH 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.
4. 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 COOL AS POSSIBLE UNTIL USED, TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA 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.

2. APPLICATION

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

8.1, PERMANENT SEEDING TABLE 8.3, 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 A WEIGHTED ROLLER TO PROVIDE GOOD SEED
TO SOIL CONTACT.

TO SOIL CONTACT.

B. DRILL OR CULTIPACKER SEEDING; MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.

I. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING, SEEDBED MUST BE FIRM AFTER PLANTING.

II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE.

III. 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; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE; K20 (POTASSIUM), 200 POUNDS PER ACRE.

MULCHING

1. MULCH MATERIALS (IN ORDER OF PREFERENCE)

A. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, LYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR, STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY.

NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.

NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.

8. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.

1. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.

11. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.

11. 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 ACITATION AND WILL BLEND WITH SEED, FETILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.

1V. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO—TOXIC.

WILL BE PHTTO-TOXIC.

Y. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT

APPLICATION

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 AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WATER.

ANCHORING A. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND

POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.

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.

DEFINITION
THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER. PURPOSE $\overline{10}$ PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION DEFINITION TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

70 USE TONG-LIVED PERENNAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED CONDITIONS WHERE PRACTICE APPLIES TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

CONDITIONS WHERE PRACTICE APPLIES FXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

 GENERAL USE
 A.SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE 8.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE 8.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON HARDINESS ZONE (PROM FIGURE C.S) AND BASED ON THE SHE CONDITION OF PURPOSE FOUND ON TABLE 8.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHERIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342.—CRITICAL AREA PLANTING.

C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.

CON ADDRESS DECEMBER OF THE MAINTENANCE ADDRESS TERM FERTILIZED (C.G. O. O.) 17.7. A 16 STREAM FOR THE SOIL TESTING AGENCY. D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3-1/2 POUNDS

PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY. A AREAS MILITARES

A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL
SITES WHICH WILL RECEIVE A MEDIUM TO HICH LEVEL OF MAINTEMANCE.

B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS SELECT ONE OF MORE OF THE SPECIES ON MIXTURES USIED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY, THE SUMMARY IS TO BE PLACED ON THE PLAN.

I. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE, RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET, CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

II, KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT, CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET, CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY BI. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS

. DALL PESCUE/RENTUCKT BEUEGROSS: FULL SUN MATURE: 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. N. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 O 70 PERCENT, SEEDING RATE: 1% TO 3 POUNDS PER 1000 SOUARE FEET.

NOTES: SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND".

CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE C. IDEAL TIMES OF SEEDING FOR TURE GRASS MIXTURES

WESTEM MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A)
CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) OUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)

D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4
INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 15 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY. E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

	DIVI DIV IV	A STUDONOL OK BI		NENT SE	EDING S	UMMAF	RY	
HARDINESS ZONE (FROM FIGURE B.3): ZONE 6b SEED MIXTURE (FROM TABLE B.3): 9						FELIZER RATE (10-20-20))	LIME RATE
NO	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ 0 ₅	K ₂ 0	
West	COOL SEASON TALL FESCUE & KENTUCKY BLUEGRASS OR EQUAL	T.F. 60 LB / AC K.B. 40 LB / AC		1/4-1/2 IN.	(1 LB PER	(2 LB PER		

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:

1. A MULCH ANCHORING TOOL IS A TRACTOR BRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR
MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES, THIS PRACTICE IS MOST EFFECTIVE ON
LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY, IF
USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR,
11. 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 WATER.

111. 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 STRICTLY PROCHIBITED.

IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER
RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO
3,000 FEET LONG. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER), GENERAL SPECIFICATIONS

A. CLASS OF TURFORASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR. B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS X INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TOM OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.

C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.

D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET)
MAY ADVERSELY AFFECT ITS SURVIVAL.

E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT
TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR

E. SOU MOST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOU NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

2. SOD INSTALLATION

A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH, ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.

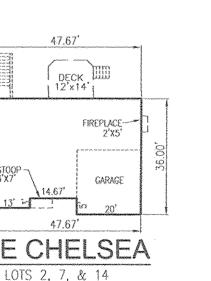
C. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS, ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SUPPAGE ON SLOPES.

ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOLL SURFACE.

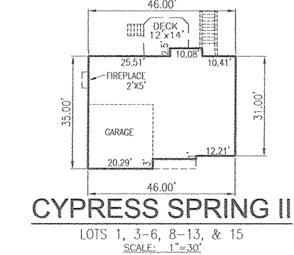
D. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.

3. SOD MAINTENANCE
A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES, WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE

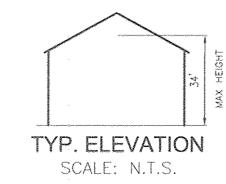
C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED, NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.



SCALE: 1"=30"



HOUSE TYPES SCALE: 1'' = 30'



"I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL

ESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE

(MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR

CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT

PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT ALL

PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL

OWNER/DEVELOPER CERTIFICATION:

HOUSE TYPE NOTES:

ADDITIONAL HOUSE TYPES AND OPTIONS MAY FIT ON ANY GIVEN LOT THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS A MINIMUM OF 10 FEET SHALL BE PROVIDED BETWEEN THE CHOSEN HOME MODEL AND A MICRO-BIORETENTION / RAIN

GARDEN, BIOSWALE OR DRYWELL ESD STORMWATER FACILITY 4. MODEL ELEVATION SHALL NOT EXCEED 34' MAX HEIGHT AS ALLOWED BY R-12 70NF 5. IN ACCORDANCE WITH SECTION 128.0.A OF THE HOWARD COUNTY ZONING REGULATIONS; A. MAX ENCROACHMENT INTO SETBACK FOR CORNICES, EAVES AND CANTILEVERED BUILDING FEATURES WHICH DO NOT

CONTAIN ANY FLOOR AREA OR EXTENSION OF INTERIOR LIVING

B. MAX ENCROACHMENT INTO SETBACK FOR BAY WINDOWS,

SPACE IS: 3 FEET INTO ANY SETBACK

WINDOW WELLS. ORIELS. VESTIBULES, BALCONIES AND CHIMNEYS IS: 4 FEET INTO ANY SETBACK OR A REQUIRED DISTANCE BETWEEN BUILDINGS, PROVIDED THE FEATURE HAS A MAXIMUM WIDTH OF 16 FEET AS MEASURED HORIZONTALLY ALONG THE WALL FROM WHICH THE FEATURE EXTENDS. D. MAX ENCROACHMENT INTO SETBACK FOR EXTERIOR STAIRWAYS OR RAMPS, ABOVE OR BELOW GROUND LEVEL EXCLUDING THOSE ATTACHED TO A PORCH OR DECK (SEE E) IS: 10 FEET INTO A FRONT SETBACK OR A SETBACK FROM A PROJECT BOUNDARY OR DIFFERENT ZONING DISTRICT; 16 FEET INTO A REAR SETBACK; 4 FEET INTO A SIDE SETBACK OR A REQUIRED DISTANCE BETWEEN

BUILDINGS. E. MAX ENCROACHMENT INTO SETBACK FOR OPEN OR ENCLOSED PORCHES AND DECKS, AND THE STAIRWAYS OR RAMPS ATTACHED THERETO IS: 10 FEET INTO A FRONT OR REAR SETBACK, A SETBACK FROM A PROJECT BOUNDARY, A SETBACK FROM A DIFFERENT ZONING DISTRICT, OR A REQUIRED DISTANCE BETWEEN BUILDINGS.

DESIGN CERTIFICATION:

PRINTED NAME

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

DESIGNER'S SIGNATURE ROBERT H, VOGEL

MD REGISTRATION NO. 16193 (P.E.), R.L.S., OR R.L.A. (circle one)

5/24/17

-EARTH FILL -PIPE (SEE NOTE 6 PROFILE

CONDITIONS WHERE PRACTICE APPLIES
STOCKPILE AREAS ARE UTILILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE. INTERIA

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. 3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE,

1. 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 ISCHARGING 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 INTERCEPT THE DISCHARGE. . STOCKPILE'S MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD 8-4-1 INCREMENTAL STABILIZATION AND STANDARD 8-4-4 TEMPORARY

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.

A MOUND OR PILE OF SOIL PROTECTION BY APPROPRIATELY DESIGNED FROSION AND SEDIMENT CONTROL

PURPOSE
TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL

8. 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 SHEETING. MANTENANCE
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 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 FFET FOR 2:1 SLOPES, 30 FFFT FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION 8-3 LAND GRADING. B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION DEFINITION OF STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS. TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER
DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED. LECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE 8.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS, IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE 8.1 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 ACENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.

3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON. SEE TABLE B-1 HEREON

SEQUENCE OF CONSTRUCTION

OBTAIN GRADING PERMIT. (1 DAY) NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK, (1 DAY)

DRY UTILITIES (CABLE, GAS ELECTRIC) MUST BE INSTALLED AFTER ROAD CONSTRUCTION AND PRIOR TO THE INSTALLATION OF THE F-16-027 MICRO BIO RETENTION AND BIOSWALE FACILITIES.

ANY F-16-027 STORMWATER MANAGEMENT FACILITIES IN PLACE SHALL BE PROTECTED FROM RECEIVING SEDIMENT LADEN WATERS FROM HOME CONSTRUCTION ACTIVITIES.

4. STAKEOUT LIMITS OF DISTURBANCE, (1 DAY) 5. INSTALL STABILIZED CONSTRUCTION ENTRANCE. (1 DAY)

6. IN ACCORDANCE WITH DETAILS HEREON, INSTALL SEDIMENT CONTROL MEASURES AS SHOWN IN PLAN VIEW AND/OR UTILIZE THE EXISTING CONTROLS INSTALLED UNDER F-16-027 AS SHOWN HEREON OR AS DIRECTED BY SEDIMENT CONTROL INSPECTOR.

EXISTING GRADES SHOWN HEREON ARE THE PROPOSED GRADES FROM F-16-027 (1 DAY)

AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR TO PROCEED, ROUGH GRADE INDIVIDUAL LOT FOR HOUSE CONSTRUCTION. (1 DAY) 8. STOCKPILING SHALL BE LIMITED TO ONLOT OR AS SHOWN HEREON. STOCKPILES SHALL BE STABILIZED AS DETAILED HEREON. (1 DAY)

9. CONSTRUCT HOUSES, THE FIRST FLOOR ELEVATIONS CANNOT BE MORE THAN 1' HIGHER OR 0.2' LOWER THAN THE ELEVATIONS SHOWN ON THIS PLAN. (6 MONTHS) FINE GRADE LOT AS DETAILED HEREIN AND PER SPOT ELEVATIONS AS SHOWN TO B IN CONFORMANCE WITH STORMWATER MANAGEMENT SCHEME APPROVED FOR THE

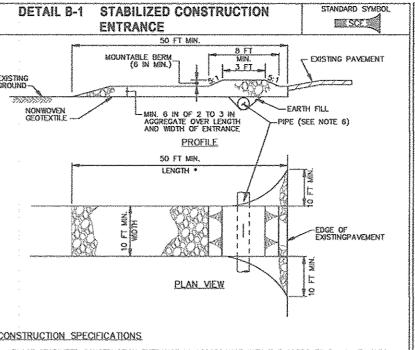
PROJECT. (1 DAY) 11. UPON COMPLETION OF HOME CONSTRUCTION AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, COMPLETE ANY REMAINING FINE GRADING, INSTALL ONLOT STORMWATER MANAGEMENT FACILITIES TO INCLUDE: DRYWELLS, RAIN BARRELS & ROOFTOP DISCONNECTIONS. INSTALL ROOF GUTTER DOWNSPOUTS TO DIRECT ROOFTOP RUNOFF AS DIRECTED. LOT GRADING WHERE ROOFTOP DISCONNECTIONS ARE PROPOSED SHALL BE 5% OR LESS FOR THE DETAILED LENGTH FOR PROPER "DISCONNECTION CREDIT".

12. ADD TOPSOIL PER THE SPECIFICATIONS SHOWN HEREON. (1 DAY) 13. WITH ALL ONLOT DISTURBANCES COMPLETED, STABILIZE WITH PERMANENT SEEDING

E-1874、104、1864、1866

MIXTURE AND STRAW MULCH OR EQUAL STABILIZATION. (1 DAY) 14. AFTER PERMISSION HAS BEEN GIVEN BY SEDIMENT CONTROL INSPECTOR, REMOVE ANY REMAINING E/S CONTROLS AND STABILIZE THE DISTURBED AREAS FROM THE AFOREMENTIONED DISTURBANCES WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH. (1 DAY)

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



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 SO FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. 2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE, PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE, PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN, WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY, A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.

. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE. AS SPECIFIED IN SECTION H-1 MATERIALS. . PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACULUMING, 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.

2011

10 FT MAX

ELEVATION

CROSS SECTION

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

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

FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.

WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.

EXTEND BOTH ENDS OF THE SUPER SLT 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 SLT FENCE.

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

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

MARYCAND STANDARDS AND SPECIFICATION'S FOR SOIL FROSION AND SEDIMENT CONTROL

2011

GALVANIZED CHAIN LINK FENCE WITH WOVEN SUIT FILM GEOTEXTILE

DETAIL E-3 SUPER SILT FENCE

STANDARD SYMBO

|----SSF------|

-34 IN MIN.

-36 IN MIN

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

GROUND SURFACE

2% IN DIAMETER — GALVANIZED STEEL OR ALUMINUM POSTS

CONSTRUCTION SPECIFICATIONS

WOVEN SLIT FILM GEOTEXTILE-

EMBED GEOTEXTILE AND— CHAIN LINK FENCE 8 IN MIN. INTO GROUND

FLOW _

ELEVATION FENCE POST 18 IN MIN. -ABOVE GROUND WOVEN SUT FILM-CROSS_SECTION STEP 2 STAPLE---TWIST POSTS TOGETHER (B) STEP 3 STAPLE JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW) 1 OF 2 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

DETAIL E-1 SILT FENCE

CENTER TO CENTER

STANDARD SYMBOL DETAIL E-1 SILT FENCE |---SF----|

CONSTRUCTION_SPECIFICATIONS

USE WOOD POSTS 1% X 1% \pm % INCH (MININUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT, USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART

USE WOVEN SLIT FILM GEOTEXTRE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTRE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND

PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REGUREMENTS IN SECTION H-1 MATERIALS. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SQL ON BOTH SIDES OF FABRIC. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.

EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE MORIZONTAL FEET UPSLOPE AT 45 DECREES TO THE MAIN FENCE ALICHMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.

REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTHE IF TORM IF UNDERMINING OCCURS, RETINISTALL FENCE.

STOCKPILING WILL BE PERMITTED ON EACH LOT ONLY.

Table B.1: Temporary Seeding for Site Stabilization

1----SF------

36 IN MIN. FENCE POST LENGTH DREVEN MIN. 16 IN INTO GROUND

Te IN MIN DEPTH

"16 IN MIN. HEIGHT OF WOVEN SUT FILM GEOTEXTILE

Seeding Rate Recommended Seeding Dates by Plant Hardiness Zone 37 (inches) lb/ac | lb/1000 ft² 7a and 7b Annual Ryegrass (Lolium perenn Feb 15 to Apr 30: Au Mar I to May 15: Aug 0.5 1.0 Mar 15 to May 31; Aug 1 to Sep 30 sp. multiflorum) to Oct 15 5 to Nov 30 RATE (10-20-20) Feb 15 to Apr 30: Au Aar 1 to May 15; An ariev (Hordeum vulgare) Mar 15 to May 31; Aug 1 to Sep 30 to Oct 15 to Nov 30 eb 15 to Apr 30; Au; Mar L to May 15; A 1.0 Mar 15 to May 31; Aug 1 to Sep 30 Oats (Avena sativa) 436 LB/AC TONS/AC (10 LB PER (90 LB PER Mar I to May 15; Au Feb 15 to Apr 30; Aug 120 Wheat (Triticum aestivum) 2.8 1.0 Mar 15 to May 31; Aug 1 to Sep 30 l to Oct 15 5 to Nov 30 Aar I to May 15. Au eb 15 to Apr 30: Au ereal Ryc (Secale cereale) 1.0 Mar 15 to May 31; Aug 1 to Oct 3 I to Nov 15 5 to Dec 15 oxtail Millet (Setaria italica) 0.7 0.5 | Jun I to Jul 31 Aav 16 to Jul 31 fay I to Aug 14 0.5 Pearl Millet (Pennisetum glaucum) Aay 16 to Jul 31 av I to Aug 14

1/ Seeding rates for the warm-season grasses are in pounds of Pure Live Seed (PLS). Actual planting rates shall be adjusted to reflect percent seed germination and purity, as tested. Adjustments are usually not needed for the cool-season grasses.

Secding rates listed above are for temporary seedings, when planted alone. When planted as a nurse crop with permanent seed mixes, use 1/3 of the seeding rate listed above for barley, oats, and wheat. For smaller-seeded grasses (annual ryegrass, pearl millet), do not exceed more than 5% (by weight) of the overall permanent seeding mix. Cereal rye generally should not be used as a nurse crop, unless planting will occur in very late fall beyond the seeding dates for other temporary seedings. Cereal rye has allelopathic properties that inhibit the acrumnation and growth of other plants. If it must be used as a nurse crop, seed at 1/3 of the rate listed above. Oats are the recommended nurse crop for warm-season grasses

3/ The planting dates listed are averages for each Zone and may require adjustment to reflect local conditions, especially near the boundaries of the zone.

OWNER HAMPTON HILLS LLC 3675 PARK AVENUE ELLICOTT CITY, MD 21043 443-323-9806

DEVELOPER TRINITY HOMES MARY LAND, LLC 3675 PARK AVENUE

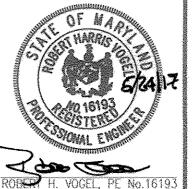
ELLICOTT CITY, MD 443-323-9806

REVISION DATE SITE DEVELOPMENT PLAN HOUSE TYPES, GRADING, SOIL EROSION, AND SEDIMENT CONTROL PLAN - NOTES AND DETAILS

DORSEY GLEN

WAP 43 - GRID 6 - PARCEL 80 ELECTION DISTRICT REF: F-99-117, ECP-14-045, SP-14-005, WP-14-122, F-16-027

ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS · SURVEYORS · PLANNERS 8407 MAIN STREET TEL: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961



DESIGN BY: RVE/KG/ DRAWN BY: CHECKED BY: MAY 2017 AS SHOWN

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, 16193
EXPIRATION DATE: 09-27-2018 W.O. NO.: 16-34

SHEET OF _

ROFESSIONAL CERTIFICATE

4'-0' KW. / 7" COMERNATION CURE NOOLN ADJACENT TO COME -1/2" PREFORMED DEPARTEZA JOSET --7" COMMINATION CURB— ' Cont . Sterman to be scribed in 5'-0" mannam scribes.

. DOWNSON JOHN ACROSS THE SECTION NOT TO BE MORE THAN 15' APART. 3. 1/2" PREFORMED EXPANSION MATERIAL IN EXPANSION JOHNS TO BE KEPT 1/4" DELOW TORRACE OF SIDEMAK.

CONCRETE TO BE SAX NO.3.), when seemank abure dure, seconal shall be 1/4" about cure wer 1/2" preformed expressor John Getheen Seemank and cure.

sociatin modin advacent to care simil be 5,-0, minimus excell sociatin vevycent in case in .

Department of Public Works R - 3.05Concrete Sidewalk

TORC .. Lating crisa in SECTION t. All fames that has a tenther organish he flet organish sector of the order. THE R CHARLE OF LIST VISIT VISIT ON BLOOK REST OF FORESTEE. THE REPORT OF THE PROPERTY OF PLAN 注一性 (學生) 對 有相似的 美统统网 美杂点 化汀 E欢祝宴 五、1938 CROSS MAN MANCHE IN INCOME WHITE IN MINE OF MANCH C. F. STANK CONSTANT PRINTS SEE FOR HIM. - ESTABLISH FRONT VIEW Howard County, Marken HESCHILL DIFFERENT IMPARTE Deportment of Public Works

PHYSIS SICSONIA STADIAN MODE RANGETON

P series conc. WHEE COSE OF FREE OF

Modified Cerroinchian Curis and Cultiur

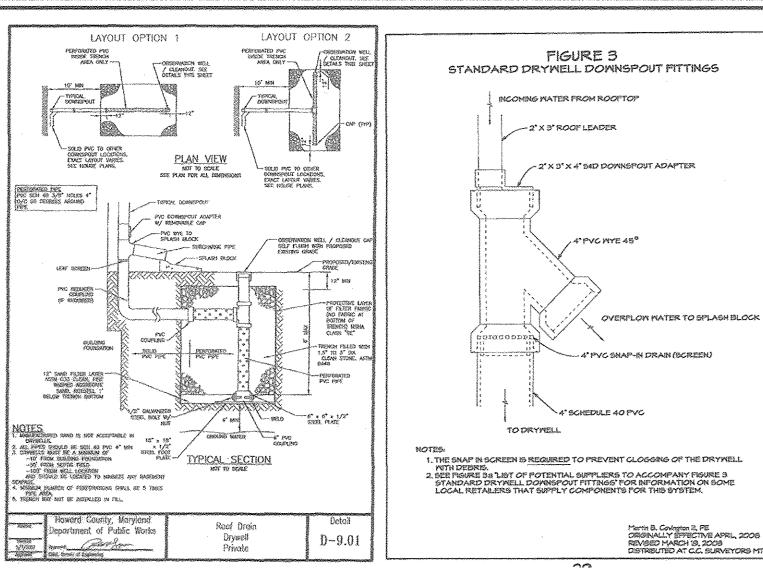
Sidewolk Selback from Corb

BROW OR BRY WEST

R-6.03

IN LONGURAISM SIDEMALK GRANES OF SA OR GREATER, A COMMUNIC HEMBER, 6° THEIR MAD N° GERE BELON THE MORANA, 4° DECEMBER HECOMEDS GIMAL PE CONSTRUCTED FOR THE FILL WORN TO THE SOCIONAL AT RETEMBER OF 48 FEET, THE DECEMBERS SHALL SE PLACED AT THE EXPANSION JOINTON AND SHALL BE MOROLPHIC WITH THE SOCIONAL. i. Seewaln located 2' on more from curd may be 4'-0" in work with a 5'x5' pared section placed 100' apart.

A -O" SECONDA DECISION A PASSING AREA (SEE DEDIC, R-4,01)



OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED STORMWATER DRY WELLS (M-5)

- 1. THE MONITORING WELLS AND STRUCTURES SHALL BE INSPECTED ON A QUARTERLY BASIS AND AFTER EVERY LARGE STORM EVENT.
- 2. WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS SHALL BE RECORDED OVER A PERIOD OF SEVERAL DAYS TO INSURE
- 3. A LOG BOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- 4. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN THE 72 HOUR TIME PERIOD, CORRECTIVE ACTION SHALL
- 5. THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- 6. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

DISCONNECTION OF ROOFTOP RUNOFF

AMENDMENTS MAY BE NEEDED FOR TIGHT, CLAYEY SOILS.

CONSTRUCTION CRITERIA:

THE FOLLOWING ITEMS SHOULD BE ADDRESSED DURING THE CONSTRUCTION OF PROJECTS WITH PLANNED ROOFTOP DISCONNECTIONS:

- EROSION AND SEDIMENT CONTROL: EROSION AND SEDIMENT CONTROL PRACTICES (E.G., SEDIMENT

TRAPS) SHALL NOT BE LOCATED IN VEGETATED AREAS RECEIVING DISCONNECTED RUNOFF SITE DISTURBANCE: CONSTRUCTION VEHICLES AND EQUIPMENT SHOULD AVOID AREAS RECEIVING DISCONNECTED RUNOFF TO MINIMIZE DISTURBANCE AND COMPACTION, SHOULD AREAS RECEIVING DISCONNECTED RUNOFF BECOME COMPACTED, SCARIFYING THE SURFACE OR ROTOTILLING THE SOIL TO A DEPTH OF FOUR TO SIX INCHES SHALL BE PERFORMED TO ENSURE PERMEABILITY. ADDITIONALLY,

INSPECTION:

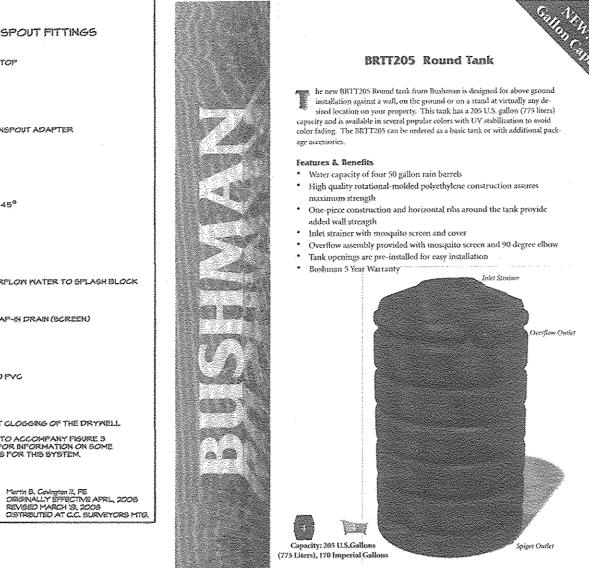
A FINAL INSPECTION SHALL BE CONDUCTED BEFORE USE AND OCCUPANCY APPROVAL TO ENSURE THAT SIZING FOR TREATMENT AREAS HAVE BEEN MET AND PERMANENT STABILIZATION HAS BEEN ESTABLISHED.

MAINTENANCE CRITERIA:

MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION (E.G., BY PLANTING TREES OR SHRUBS ALONG THE PERIMETER). IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

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

A. MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE OWNER SHALL ENSURE THE AREAS RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

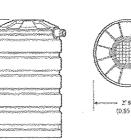


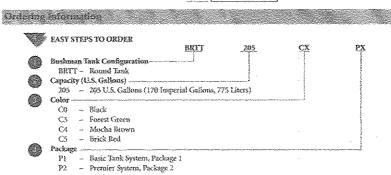
TYPICAL RAIN BARREL DESIGN

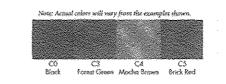
200 GAL 7.48 GAL/CUFT	= 26.7 CUF
600 CE V (6")	- 25 CHET

200 GAL 7.48 GAL/CUFT	= 26.7 CUFT
500 SF X (.6")	= 25 CUFT









Example: BRTT205C3P2 - BRTT 205 tank, 205 U.S. Gallons capacity, Forest Green, Premier Package.

* Refer to Bushman Rainwater Harvesting and Tank System Packages Brochure.

▶ BUSHMAN¹ Canadas Bushman, Canada 6185 Tomken Road, Unit 3 - 5

26040 Yeex Road, P.O. Box 893051 Tel. 866.920, TANK (8265) Fox. 951.296.6123

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED RAINWATER HARVESTING (M-1)

- A. THE OWNER SHALL EMPTY BARRELS ON A MONTHLY BASIS AND CLEAN BARREL WITH A HOSE.

 B. THE OWNER SHALL VERIFY INTEGRITY OF LEAF SCREENS, GUTTERS, DOWNSPOUTS, SPIGOTS, AND MOSQUITO SCREENS, AND CLEAN AND
- C. THE OWNER SHALL REPLACE DAMAGED COMPONENTS AS NEEDED.

 D. THE OWNER SHALL ALLOW THE BARREL TO DRAIN BY BOTTOM SPIGOT

Mississouga, Ontario 15T IX3 Tel. 800.387.8332 Fax. 905.565.8282

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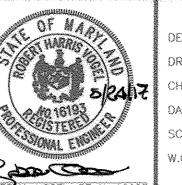
SITE DEVELOPMENT PLAN STORMWATER MANAGEMENT DRAINAGE AREA

REVISION

TAX MAP 43 - GRID 6 - PARCEL 80 1ST ELECTION DISTRICT 3PZ REF: F-99-117, ECP-14-045, SP-14-005, WP-14-122, F-16-027

NO.

ENGINEERS . SURVEYORS . PLANNERS 8407 Main Street Tel: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961



DESIGN BY: RVE MERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LECENSE NO. 16193 EXPIRATION DATE: 09-27-2018 DRAWN BY: RVE/KG CHECKED BY: W.O. NO.: 16-34

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 8-9-17 PROFESSIONAL CERTIFICATE