| | | SHEET INDEX |
|---|-------|--|
| 5HE | ET NO | DESCRIPTION |
| | 1 | TITLE SHEET |
| | 2 | SITE DEVELOPMENT PLAN |
| and | 3 | SEDIMENT AND EROSION CONTROL NOTES & DETAILS |

GhB | Glenelg—Urban Land Complex, 0 to 8 percent slopes

PREVIOUS HOWARD COUNTY FILES: F-95-30, F-95-06, ECP-14-019, F-14-070.

SITE ANALYSIS DATA CHART

PRESENT ZONING DESIGNATION = R-20

RECREATIONAL AREA PROVIDED: N/A

TOTAL AREA OF FOREST = 0.00 Ac. *

. TOTAL GREEN OPEN AREA = 0.78 Ac. \$

TOTAL IMPERVIOUS AREA = 0.20 Ac. ±

O. AREA OF ERODIBLE SOILS = 0.00 Ac. ±

PROPOSED USE: RESIDENTIAL OPEN SPACE ON SITE: N/A

NET TRACT AREA = 0.98 Ac=

A. TOTAL AREA OF THIS SUBMISSION = 0.90 ac.±. 3. LIMIT OF DISTURBED AREA = 35,607 54Ft. or 0.02 Ac±.

TOTAL AREA OF FLOODPLAIN LOCATED ON SITE: 0.00 Ac.

TOTAL AREA OF SLOPES IN EXCESS OF 15% = 0.00 Ac.

(TOTAL SITE AREA - FLOODPLAIN - STEEP SLOPES AREA)

TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 Ac*

(PER 10/06/2013 COMPREHENSIVE ZONING PLAN).

50IL5 LEGEND

| | Minimum Lo | t Size Tabul | ațion |
|------------|-------------------------|------------------|---------------------|
| Lo† No. | Gross Ared | Pipes†em Ared | Minimum Lo† Size |
| 6 | 20,1 74 5q. F†.± | N/A | 20,174 5q. Ft.± |
| 7 | 22,450 5q. Ft.± | 2,450 5q. F†.± | 20,000 5q. Ft.± |

STORMWATER MANAGEMENT SUMMARY CHART

5WM 5UMMARY CHART

SWM TREATMENT PROVIDED

MICRO-BIORETENTION (M-6)

MICRO-BIORETENTION (M-6)

REQUIRED = 1,019 SQ.FT.

PROVIDED = 1,636 5Q.FT.

AREA = 0.92 ACRES

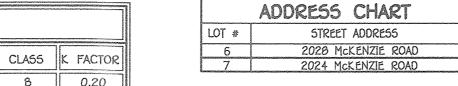
TARGET PE = 1.2"

RCN = 55

LOT 7

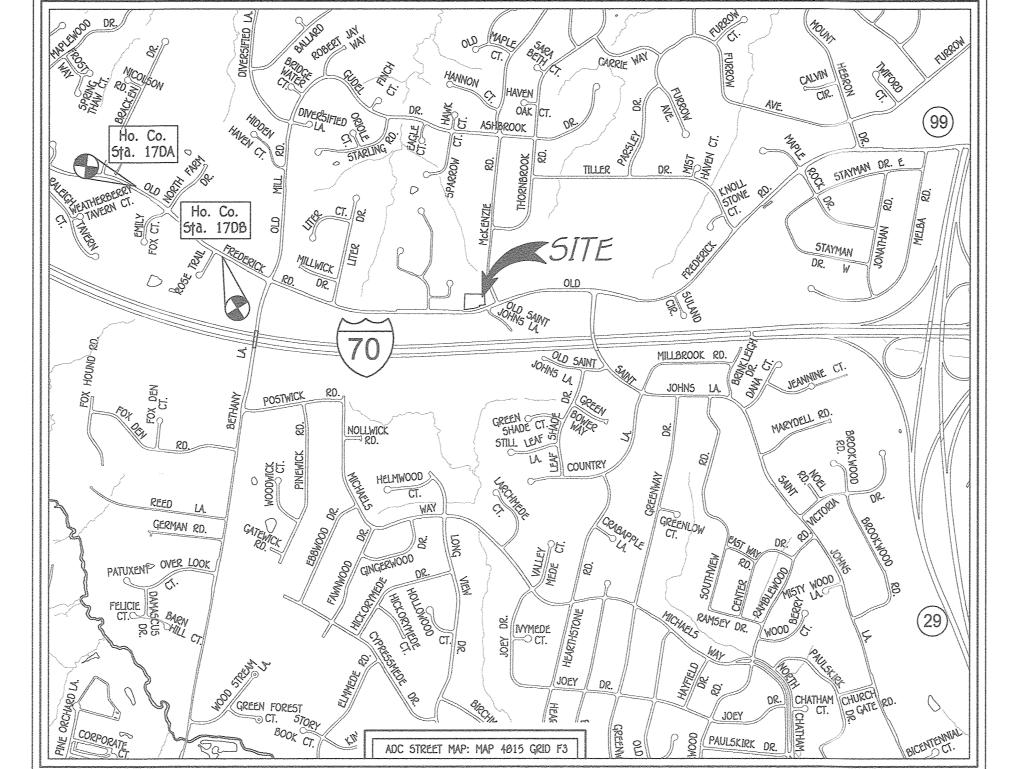
| | 74 5q. | Ft. ± | e e e e e e e e e e e e e e e e e e e | N/A | Propaga | 20,174 | 5q. | Ft. ± | | |
|------------------------|---------------|-------|---------------------------------------|----------|---------|--|-----|-------|--------------------|---|
| | 50 5q. | F†. ± | 2,45 | 50 5q. | F†. ± | 20,000 | 5q. | Fţ.± | et interesperation | |
| | | | | | | | | | | |
| | ***** | | | | | | | | | U |
| | | ADDI | RE55 | CHAR | T | CONSTRUCTION OF THE PROPERTY O | | | | |
| Account to the same of | LOT # | | STREET | ADDRESS | | | | | | |
| and the same | 6 | | 2029 McY | ENTIF OF | MAN | | | | | |

SITE DEVELOPMENT PLAN ETT PROPERTY LOTS 6 AND 7



в | 0.20

TAX MAP No. 17 GRID No. 15 PARCEL NO. 35 LOT NO. 3 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND



| BE | NCHMARK INFORMATION |
|--------|---|
| B.M.#1 | - HOWARD COUNTY CONTROL STATION #17DA - HORIZONTAL - NAD '03) (LOCATED ON THE NORTH SIDE OF HUNTING LANE WEST OF NEWBERRY DRIVE) N 595,410.0266 E 1,351,641.1076 ELEVATION = 401.24 - VERTICAL - (NAVD '00) |
| B.M.#2 | - HOWARD COUNTY CONTROL STATION #17DB - HORIZONTAL - (NAD '03) (LOCATED ON THE SOUTH SIDE OF HUNTING LANE) N 594,529.5260 E 1,352,722.5920 ELEVATION = 475.22 - VERTICAL - (NAVD '00) |

| BLAZE ORANGE PLASTIC MESH |
|---|
| ANCHOR POST SHOULD BE MINIMUM 2" STEEL "U" CHANNEL OR 2" x 2" TIMBER 6' IN LENGTH |
| HIGHLY VISIABLE FLAGGING USE 2" × 4" LUMBER FOR CROSS BACKING |
| |
| |
| ANCHOR POST MUST BE INSTALLED TO A DEPTH OF NO LESS THAN 1/3 OF THE TOTAL HEIGHT OF POST USE 3' WIRE "U" TO SECURE FENCE BOTTOM |
| FOREST PROTECTION DEVICE ONLY. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE. ROOT DAMAGE SHOULD BE AVOIDED. PROTECTIVE SIGNAGE MAY ALSO BE USED. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION. |
| TREE PROTECTION DETAIL NOT TO 5CALE |

| | idia Daliana dan Adiana Qianaka | nting Opin Conden | 2 120 dao2na Indibubbia |
|---|--|--|--|
| able b.4. Majeriais Spec Material | cifications for Micro-Biorete Specification | Size | Notes |
| Plantings | see Appendix A; Table A.4 | n/a | plantings are site-specific |
| Plaming soil [2' to 4' deep] | loamy sand 60-65% compost 35-40% or sandy loam 30% coarse sand 30% compost 40% | - | USDA soil types loamy sand or sandy loam; clay content <5% |
| Organic Content | Min. 10% by dry weight (ASTM D 2974) | | |
| Mulch | shredded hardwood | | aged 6 months, minimum |
| Pea gravel diaphragm | pea gravel: ASTM-D-448 | No. 8 or No. 9 (1/8" to 3/8") | |
| Curtain drain | ornamental stone: washed cobbles | stone: 2" to 5" | €. |
| Geotextile | | n/a | PE Type 1 nonwoven |
| Gravel (underdrains and infiltration berms) | AA5HTO M-43 | No. 57 or No. Aggregāte (3/8" to 3/4") | |
| Underdràin piping | F 750, Type P5 20 or AASHTO M-276 | 4" to 6" rigid schedul 40 PVC or 5DR35 | e Slotted or perforated pipe; 3/8" pert. © 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes. Perforated pipe shall be wrapped with 1/4 inch galvanized hardware cloth |
| Poured in place concrete (if required) | MSHA Mix No. 3; f = 3500 psi at 20 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60 | n.à | on-site testing of poured-in-place concrete required: 20 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved 5tate or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland — design to include meeting ACI Code 350.R/89; vertical loading IH-10 or H-201; allowable horizontal loading (based on soil pressures); and analysis of potential cracking |
| 5and | AA5HTO-M-6 or A5TM-C-33 | 0.02" to 0.04" | Sand substitutions such as Diabase and Graystone (AASHTO) #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand. |

| | | LEGEND | |
|------------|----------------------------|----------|----------------------------------|
| 5YMBOL | DESCRIPTION | 5YMB0L | DESCRIPTION |
| 492 | EXISTING 2' CONTOURS | 482 | PROPOSED CONTOUR |
| 490 | EXISTING 10' CONTOURS | +362.5 | SPOT ELEVATION |
| GgB GgC | SOILS LINES AND TYPE | LOD | LIMITS OF DISTURBANCE |
| ~~~~ | EXISTING TREELINE | | DRAINAGE AREA DIVIDE |
| | INDIVIDUAL TREES & SHRUBS | —— 5F —— | SILT FENCE |
| x x | EXISTING FENCE LINE | ECM | EROSION CONTROL MATTING |
| | EXISTING & PROPOSED PAVING | | STABILIZES CONSTRUCTION ENTRANCE |

This development plan is approved for soil erosion and sediment control by

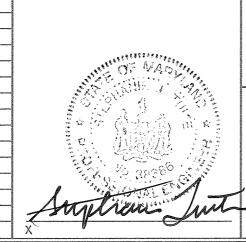
Scale: 1" = 2000'Please Note That Lots 6 % in This Subdivision Is Subject To The Moderate Income Housing Unit

(M.I.H.U.) Fee-In-Lieu Requirement That Is To Be Calculated And Paid To The Department Of Inspections Licenses And Permits At The Time Of Building Permit Issuance By The Permit Applicant.

F-14-078

15

OWNERS / DEVELOPER CYNTHIA G. JETT 484 CALHOUN ROAD EVERETT, PENNSYLVANIA 15537-4230 CONTACT: JAMES JETT 443-257-2796 FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS ennial soliare office park - 10272 Baltimore National Pik ELLICOTT CITY, MARYLAND 21042



4/24/19 PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION

the HOWARD SOIL CONSERVATION DISTRICT.

BUILDER/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 ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT, I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT." 1/We certify that this plan for erosion and sediment control represents a practical and workable plan based on MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF

APPROVED: DEPARTMENT OF PLANNING AND ZONING 5-21-19 5-21-19 5.15.19 SECTION PARCEL NO. JETT PROPERTY, LOTS 6 AND 7 ZONE TAX/ZONE | ELEC. DIST. #24994

TITLE SHEET

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

2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT

3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-000-257-7777 AT LEAST 40 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM

5. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT Nos. 17DA AND 17DB GA WERE USED FOR THIS PROJECT.

6. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T-180.
9. NOISE STUDY WAS PREPARED BY MARS GROUP DATED JUNE, 2013. THE UNMITIGATED 65DBA NOISE CONTOUR LINE DRAWN ON THIS PLAT IS ADVISORY

AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEBRUARY, 1992 AND CANNOT BE CONSIDERED TO EXACTLY LOCATE

10. PUBLIC WATER AND SEWER SHALL BE UTILIZED WITHIN THIS DEVELOPMENT. EXISTING UTILITIES WERE FIELD LOCATED BASED ON MARKINGS BY MISS UTILITY

15. STORMWATER MANAGEMENT REQUIREMENTS FOR LOTS 6 AND 7 WILL BE MET USING ENVIRONMENTAL SITE DESIGN TO THE MAXIMUM EXTENT POSSIBLE

IN ACCORDANCE WITH MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II, EFFECTIVE IN MAY 2010. THE PROPOSED PRACTICES WILL BE

LOT 6: MICRO-BIORETENTION (M-6) FOR THE PROPOSED HOUSE AND NON-ROOFTOP DISCONNECTION FOR SHARED SHARED USE-IN-COMMON

THESE FACILITIES ARE PRIVATELY OWNED AND MAINTAINED BY THE INDIVIDUAL LOT OWNERS.

16. THE 30' PRIVATE USE—IN—COMMON DRIVEWAY ACCESS & UTILITY EASEMENT AND MAINTENANCE AGREEMENT FOR THE USE AND BENEFIT OF LOTS 6 AND 7 WAS RECORDED SIMULTANEOUSLY WITH THE RECORDATION OF THE PLAT # 24994

17. THERE ARE NO FLOODPLAIN, WETLANDS, STREAMS, OR THEIR BUFFERS LOCATED ON—SITE.

19. THE FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL FOR THIS SUBDIVISION WILL BE FULFILLED BY PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$4,900.50 (6,534 SQ.FT. X \$0.75 = \$4,900.50) PAID WITH

20. ENVIRONMENTAL FINDINGS LETTER PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED OCTOBER, 2013. NO WETLANDS OR FOREST STANDS ARE

22. WATER AND SEWER SERVICE TO THESE LOTS WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 10.122B OF THE HOWARD COUNTY CODE. 23, PUBLIC WATER AND SEWAGE ALLOCATIONS WILL BE GRANTED AT TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME. 24. OPEN SPACE REQUIREMENTS ARE PROVIDED BY A FEE-IN-LIEU PAYMENT OF \$1,500.00.
25. A COMMUNITY MEETING WAS CONDUCTED ON JULY 15, 2013 FOR THE PURPOSE OF THE DEVELOPER TO PROVIDE INFORMATION TO THE COMMUNITY REGARDING THE PROPOSED RESIDENTIAL DEVELOPMENT AND TO ALLOW THE COMMUNITY TO ASK QUESTIONS AND TO MAKE COMMENTS, PER SECTION

26. ON SEPTEMBER 12, 2013 HISTORIC DISTRICT COMMISSION MEETING APPROVED THE SUBDIVISION PLAN FOR THE JETT PROPERTY AS FILE NO. 13-46

27. LANDSCAPING FOR LOTS 6 AND 7 IS PROVIDED IN ACCORDANCE WITH A CERTIFIED LANDSCAPE PLAN. IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL A LANDSCAPE SURETY IN THE AMOUNT OF \$3,750.00 BASED ON (3) SHADE TREES @ \$300/SHADE TREE AND (19) EVERGREEN TREES @ \$150/EVERGREEN TREE WILL BE COMPLETED WITH THE SDP AND BONDED WITH THE

26. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM

31. SIGN POSTS: ALL SIGN POST USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE)

32. DRIVEWAY (5) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE

DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE

OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATE. SIGN SHALL BE

38 THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 16 127 RESIDENTIAL INFILL DEVELOPMENT OF SUBDIVISION AND LAND

34. A PRIVATE RANGE OF ADDRESS SIGN SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS /

36. THE PRIVATE SEPTIC TO BE PROPERLY ABANDONED PRIOR TO SIGNATURE OF THE SITE DEVELOPMENT PLAN. THE SEPTIC WILL BE PUMPED, COLLAPSED AND FILLED IN. AN AGREEMENT WILL BE RECORDED TO HOLD THE DEVELOPER RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF ALL SEPTIC

DEVELOPMENT REGULATIONS. THE DEVELOPER OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, BERMS, FENCES, SIMILAR HOUSING UNIT TYPES AND THE DIRECTION ORIENTATION OF THE PROPOSED HOUSES. 39. IN ACCORDANCE WITH SECTION 100.0.D.4.A.(1)(A)(II) OF THE HOWARD COUNTY ZONING REGULATIONS THE SIDE BUILDING RESTRICTION SETBACK FROM MARYLAND ROUTE 99 IS 50 FEET AND IN ACCORDANCE WITH SECTION 100.0.D.4.B(1)(A)(I) THE FRONT BUILDING RESTRICTION SETBACK FROM

40. SUBDIVISION IS SUBJECT TO SECTION 108.0.E. OF THE ZONING REGULATIONS, AT LEAST 10% OF THE DWELLING UNITS SHALL BE MODERATE INCOME HOUSING UNITS (M.I.H.U.) OR AN ALTERNATIVE COMPLIANCE WILL BE PROVIDED.THE DEVELOPER SHALL EXECUTE A M.I.H.U. AGREEMENT WITH THE DEPARTMENT OF HOUSING TO INDICATE HOW THE M.I.H.U. REQUIREMENT WILL BE MET. THE M.I.H.U. AGREEMENT AND COVENANTS WILL BE RECORDED SIMULTANEOUSLY WITH THE PLAT IN THE LAND RECORDS OFFICE OF HOWARD COUNTY. MARYLAND. THIS DEVELOPMENT WILL MEET M.I.H.U. ALTERNATIVE COMPLIANCE BY A PAYMENT OF A FEE-IN-LIEU TO THE DEPARTMENT OF HOUSING FOR EACH REQUIRED UNIT.

b. M.I.H.U. PROPOSED = DEVELOPER WILL PURSUE ALTERNATIVE COMPLIANCE BY PAYING A FEE-IN-LIEU TO THE HOWARD COUNTY HOUSING DEPARTMENT FOR THE UNITS

C. AN EXECUTED M.I.H.U. AGREEMENT WITH THE HOWARD COUNTY HOUSING DEPARTMENT HAS BEEN COMPLETED AND RECORDED SIMULTANEOUSLY WITH THE PLAT. 41. THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN TOPOGRAPHIC SURVEY WITH (MAXIMUM TWO FOOT) CONTOUR INTERVALS PREPARED BY FISHER, COLLINS & CARTER,

42. TRASH AND RECYCLABLES COLLECTION WILL BE AT FREDERICK ROAD WITHIN 5' OF THE COUNTY ROADWAY. TRASH / REFUSE COLLECTION PAD WILL BE MAINTAINED BY THE PROPERTY OWNERS (IF AN HOA) IS NOT PROPOSED. THE MAINTENANCE OF THIS COLLECTION AREA SHOULD BE REFERENCED IN THE PRIVATE USE-IN-COMMON ACCESS

44. IN ACCORDANCE WITH SECTION 128 (0)(a)(1)(e)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 OR

> 410.531.5533 410.850.4620

410.787.9068 1.800.257.7777

410,795,1390

410.313.4900

410,313,2640 1.800.252.1133 1.800.743.0033/410.224.9210

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

49. ABANDON EXISTING 3/4 WATER SERVICE CONNECTION. EXCAVATE AND SHUT OFF THE CORPORATION STOP, DISCONNECT THE SERVICE AND REMOVE THE

51. ON DECEMBER 14, 2010, THE PLANNING DIRECTOR APPROVED THE REQUEST FOR AN ALTERNATIVE COMPLIANCE (WP-19-046) OF SECTION 16.144.(P)

1) THE PAYMENT OF FEES. POSTING OF SURETY AND COMPLETION OF DEVELOPER'S AGREEMENTS MUST BE COMPLETED ON OR BEFORE JANUARY 23. 2019. PLEASE BE ADVISED THAT DPW. REAL ESTATE SERVICES REQUIRES A MINIMUM OF 3 WEEKS TO EXECUTE THE AGREEMENTS PRIOR TO

2) INCLUDE THE ALTERNATIVE COMPLIANCE REQUEST NUMBER, DESCRIPTION, AND DECISION ON ALL ASSOCIATED PLANS. PLATS. AND ANY FUTURE

BUILDERS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S.

THE 65DBA NOISE EXPOSURE. THE UNMITIGATED 65DBA NOISE CONTOUR LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS,

14. THERE ARE NO AREAS OF STEEP SLOPES LOCATED ON THIS PROPERTY AS DEFINED BY THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT

E 1,351,641.1076

N 594,529.5268 £ 1,352,722.5920

AND SPECIFICATIONS IF APPLICABLE.

TRAFFIC CONTROL DEVICES (MUTCD).

a. SUBDIVISION NAME: JETT PROPERTY

e. ELECTION DISTRICT: SECOND f. GROSS AREA OF TRACT = 0.98 AC.*

I. AREA OF BUILDABLE LOTS: 0.90 AC: m. AREA OF OPEN SPACE LOTS: 0.00 AC.

1. NET AREA OF TRACT = 0.90 AC.

REGULATIONS, SECTION 16,116.b.

. NUMBER OF NON-BUILDABLE BULK PARCELS: 0 . NUMBER OF BUILDABLE BULK PARCELS: 0 . NUMBER OF NON-BUILDABLE PARCELS: 0

n. AREA OF NON-BUILDABLE BULK PARCELS: 0.00 AC.

O. AREA OF BUILDABLE BULK PARCEL: 0.00 AC

p. AREA OF NON-BUILDABLE PARCEL: 0.00 AC. q. AREA OF ROADWAY TO BE DEDICATED: 0.00 AC.

. AREA OF 25% OR GREATER SLOPES = 0.00 AC.

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.I

11. SOILS INFORMATION BASED ON THE NRCS WEBSOIL SURVEY.

LOCATED ON THE INDIVIDUAL LOTS AS FOLLOWS:

PRESENT ON-SITE.
21. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.

AND THE ROAD R/W LINE AND NOT THE PIPESTEM LOT DRIVEWAY.

' LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.

A) WIDTH - 12 FEET (16 FEET IF SERVING MORE THAN ONE RESIDENCE)

16.120(D) OF THE SUBDIVISION REGULATIONS.

29. NO CEMETERIES EXIST WITHIN THIS SUBDIVISION.

F) STRUCTURE CLEARANCES - MINIMUM 12 FEET

MODERATE INCOME HOUSING UNIT (M.I.H.U.) TABULATION: a. M.I.H.U. REQUIRED = $(1 LOT \times 10\%) = 0.1 M.I.H.U.$

INC. DATED MARCH, 2013 AND SUPPLEMENTED WITH HOWARD COUNTY GIS TOPOGRAPHY.

43. SOILS INFORMATION BASED ON NRCS WEB SOIL SURVEY FOR HOWARD COUNTY, MARYLAND.

HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES

48. SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.

AND 16.147(E) SUBJECT TO THE FOLLOWING CONDITIONS:

THE SUBMISSION OF THE FINAL PLAT ORIGINAL

CENSUS TR.

602100

FIFTH

47. EXISTING UTILITIES ARE BASED ON FIELD LOCATION AND AVAILABLE COUNTY DATA.

50. EXISTING WATER METER WILL BE ABANDONED PRIOR TO BUILDING PERMIT FOR NEW HOUSE.

REQUIRED BY THE DEVELOPMENT.

STATE HIGHWAY ADMINISTRATION

COLONIAL PIPELINE COMPANY

BGE(UNDERGROUND DAMAGE CONTROL)

HOWARD COUNTY HEALTH DEPARTMENT

BGE(CONTRACTOR SERVICES)

G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE

FOLLOWING (MINIMUM) REQUIREMENTS:

(#9602 OLD FREDERICK ROAD).

. NUMBER OF BUILDABLE LOTS: 2 . NUMBER OF OPEN SPACE LOTS: 0

7. BACKGROUND INFORMATION:

b. TAX MAP NO. 17

c. PARCELS NO. 35

d. ZONING R-20

HOWARD COUNTY MONUMENT No. 1708

410-313-1000 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.

HOWARD COUNTY MONUMENT No. 17DA N 595,410.8266

6. SUBJECT PROPERTY ZONED R-20 PER 10/06/2013 COMPREHENSIVE ZONING PLAN.

PREVIOUS FILE NUMBERS: F-95-30, F-95-86, ECP-14-019, F-14-078, WP-19-046

WHERE POSSIBLE AND SUPPLEMENTED BY INFORMATION BASED ON CONT. Nos. 71-W & 730-5-B.

LOT 7: MICRO-BIORETENTION (M-6) FOR THE PROPOSED HOUSE AND DRIVEWAY.

10. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE MARS GROUP DATED MAY, 2013.

12. THE EXISTING DWELLING (BUILT APPROXIMATELY IN 1920) IS TO BE REMOVED UNDER THIS PLAN.

13. BOUNDARY OUTLINE BASED ON FIELD RUN SURVEY PREPARED BY FISHER, COLLINS & CARTER, INC. DATED JULY, 2013.

LOT 6 SURETY: (1) SHADE TREES @ 300/SHADE TREE & (7) EVERGREENS @ 150/EVERGREEN=\$1,350.00

LOT 7 SURETY: (2) SHADE TREES @ 300/SHADE TREE & (12) EVERGREENS @ 150/EVERGREEN=\$2,400.00

B) SURFACE - SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING

STRUCTURES (CULVERTS/BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING)

EASEMENTS THAT EXCEED THE PROPOSED LOT LINE BOUNDARIES ONCE PUBLIC SEWER IS GRANTED.

MCKENZIE ROAD IS 40 FEET WHICH ALSO REFLECTS THE FRONT SETBACK RECORDED ON PLAT NO. 11859.

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

COPPER PIPE, AND CAP CORPORATION STOP AND TOP HALF OF WATER MAIN WITH SMALL AMOUNT OF CONCRETE.

30 THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAVERS HAVE BEEN APPROVED.

) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45 FOOT TURNING RADIUS

PROVIDED FOR LOTS 6 AND 7 AT THE INTERSECTION OF MCKENZIE ROAD AND THE USE-IN-COMMON DRIVEWAY. 35. THE SOIL BORING REPORT FOR THIS PROJECT WAS PREPARED BY FISHER, COLLINS, & CARTER, INC. DATED JANUARY, 2014.

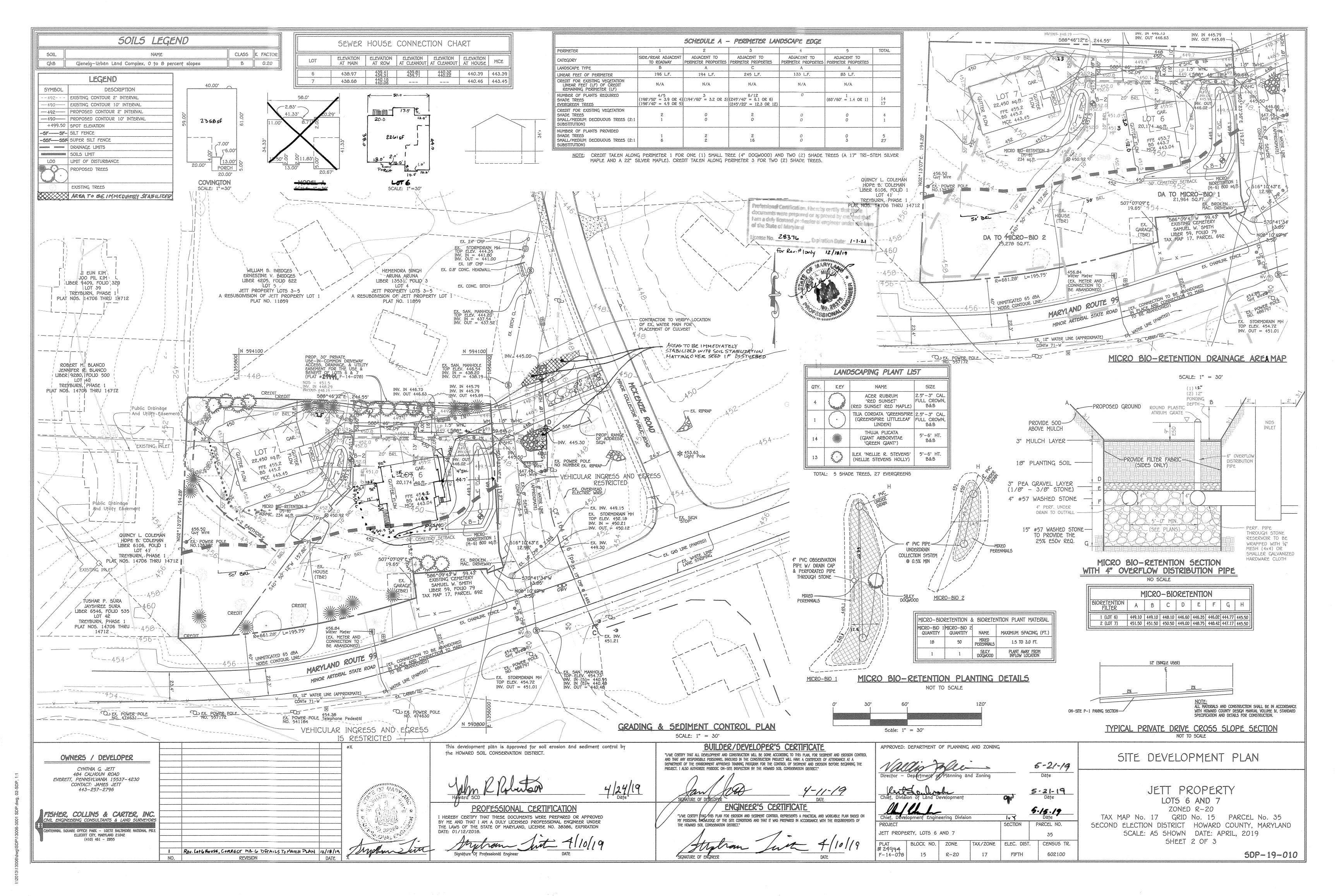
37. APPROVAL HAS BEEN GRANTED THROUGH DPW TO ALLOW ACCESS THROUGH THE PARCEL ADJACENT TO MCKENZIE ROAD

33. DRIVEWAYS SHALL BE PROVIDED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R-6.06 IN THE VOL. IV DESIGN MANUAL.

LOTS 6 AND 7 ZONED R-20 TAX MAP No. 17 GRID No. 15 PARCEL No. 35 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: APRIL, 2019 SHEET 1 OF 3

50P-19-010

JETT PROPERTY



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.

2. Permanent Stabilization

a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are: i. Soil pH between 6.0 and 7.0.

ii. 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 loyegrass 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 roof 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.

B. Topsoiling

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, materials toxic to

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

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

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

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

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

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

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

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

a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used i 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 sedge, poison ivy, 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 natural topso

6. Topsoil Application

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 packets.

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. Soi samples taken for engineering purposes may also be used for chemical analyses.

2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name

trade name or trademark and warranty of the producer. 3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 90 to 100 percent will pass through a #20 mesh sieve.

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.

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

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

The application of seed and mulch to establish vegetative cover.

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

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

A. Seeding
1. Specifications 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 c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared

specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cook as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient

time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

a. Dry Seeding: This includes use of conventional drop or broadcast spreaders. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with

weighted roller to provide good seed to soil contact. b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.

i. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer). 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 acre. ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding. iii. Mix seed and fertilizer on site and seed immediately and without interruption. iv. When hydroseeding do not incorporate seed into the soil.

a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired. b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into uniform fibrous physical state.

NO.

REVISION

. 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.

i. WCFM, including dye, must contain no germination or growth inhibiting factors. iii. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings. 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

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 cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.

a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by

iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually

millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

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 greas, but is limited to flatter slopes where equipment can operate safely. used on sloping land, this practice should follow the contour. ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water. 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 strictly prohibited.

TEMPORARY SEEDING NOTES (B-4-4)

available in rolls 4-15 feet wide and 300 to 3,000 feet long.

To stabilize disturbed soils with vegetation for up to 6 months.

testing agency. Soil tests are not required for Temporary Seeding.

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. 1. Select 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 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

3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section 8-4-3.A.1.b and maintain until the next seeding season. Temporary Seeding Summary

| | remporary beeding | g Summary | | |
|---|--|-------------------------------------|---------------------------------------|---|
| ne (from Figure B. (from Table B.1): | 3): <u>6b</u> | | Fertilizer Rate (10-20-20) | Lime Rațe |
| Application Rate | Seeding | Seeding | | |
| 96 | 3/1 - 5/15 | 1" | 436 b/ac | 2 †ons/àc |
| 72 | 8/15 - 10/15 | 1" | (10 lb/ 1000 sf) | (90 lb/ 1000 sf) |
| 112 | | 1" | | |
| | (from Table B.1): Application Rate 96 72 | 96 72 96 3/1 - 5/15, 8/15 - 10/15 | Seeding Seeding Seeding Seeding | (from Table 8.1): (10-20-20) Application Rate Seeding Seeding 96 3/1 - 5/15, 8/15 - 10/15 1" 436 b/ac (10 b/ 1000 sf) |

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

1. General Use

a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure 8.3) and based on the site condition or 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 aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.

c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency. d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary

(Hardiness Zones: 7a. 7b)

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

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

Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight. ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial

Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight. iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas

receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended. iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For

establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 sauare feet.

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

Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic literal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a) Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15

d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in diameter The resulting seedbed must be in such condition that future moving of grasses will pose no difficulty. e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

Permanent Seeding Summary

| | | e (from Figure B. from Table B.3): | | Fertilizer Rate (10-20-20) | | | Lime Rațe | |
|-----|----------------|---------------------------------------|----------------------------------|----------------------------|----------------------|-------------------------------|------------------|----------------------------------|
| 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. | 45 lbs. per acre | (- 10) | (2 lb/ | 2 tons/dc (90 lb/ 1000 sf) |
| | | | | | (1.0 lb/ 1000 sf) | 1000 sf) | 1000 sf) | 1000 5) |
| | | | | remandere and date | Paracasasas variante | | | |

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

a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector. b. Sod must be machine cut at a uniform soil thickness to % inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch.

Broken pads and torn or uneven ends will not be acceptable. 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

Sod Installation During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod. 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. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying soil 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

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

sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREAS

<u>Definition</u>

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

inches unless otherwise specified.

impermeable sheeting.

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns. 1. The stockpile location and all related sediment control practices must be clearly indicated on the 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 intercept the discharge. 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. Stockpiles containing contaminated material must be covered with

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 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.

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

A pre-construction meeting must occur with the Howard County Department of Public 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 following stages: Prior to the start of earth disturbance, b. Upon completion of the installation of perimeter erosion and sediment controls, but before

proceeding with any other earth disturbance or grading, . Prior to the start of another phase of construction or opening of another grading unit, d. Prior to the removal or modification of sediment 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 PROSION AND SPOIMEN CONTROL, and revisions thereto.

Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active grading. All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for topsoil (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be applied between the fall and spring seeding dates if the ground is frozen. Incremental stabilization (Sec. 8-4-1) specifications shall be enforced in areas with >15 of cut and/or fill Stockpiles (Sec. 8-4-9) in excess of 20 ft. must be benched with stable outlet. All concentrated flow,

All sediment control structures are to remain in place, and are to be maintained in operative condition until permission for their removal has been obtained from the CID. Site Analysis: Total Area of Site: ____ Area Disturbed: 0.82 Acres Area to be rooted or paved: 0.21 ____ Acres Area to be vegetatively stabilized: 0.61

Total Fill: must be repaired on the same day of disturbance. Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly; and the next day after each rain event. A written report by the contractor, made available upon request

steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. 9-4-6).

is part of every inspection and should include: 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 precipitation)

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

Monitorina/samplina 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.

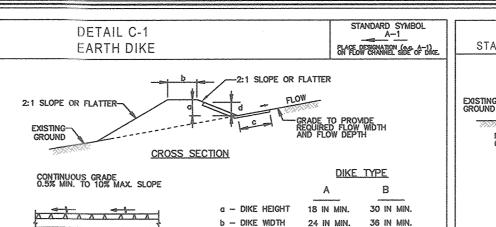
Any major changes or revisions to the plan or sequence of construction must be reviewed and

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 L.O.D. A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the CID. Unless otherwise

specified and approved by the H5CD, no more than 30 acres cumulatively may be disturbed at a given time. Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure.

Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade. All Silt Fence and Super Silt Fence shall be placed on-the-contour, and be imbricated at 25 minimum intervals, with lower ends curled uphill by 2 in elevation. Stream channels must not be disturbed during the following restricted time periods (inclusive): Use I and IP March 1 - June 15

Use III and IIIP October 1 - April 30 Use IV March 1 - May 31 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.



c - FLOW WIDTH 4 FT MIN. 6 FT MIN.

d - FLOW DEPTH 12 IN MIN. 24 IN MIN.

FLOW CHANNEL STABILIZATION

PLAN VIEW

 ∇

SEED WITH STRAW MULCH AND TACK, (NOT ALLOWED FOR CLEAR WATER

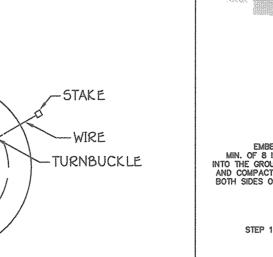
A-2/B-2 SEED WITH SOIL STABILIZATION MATTING OR LINE WITH SOD. A-3/B-3 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL A MINIMUM OF 7 INCHES AND FLUSH WITH GROUND. CONSTRUCTION SPECIFICATIONS

REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE. EXCAVATE OR SHAPE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.

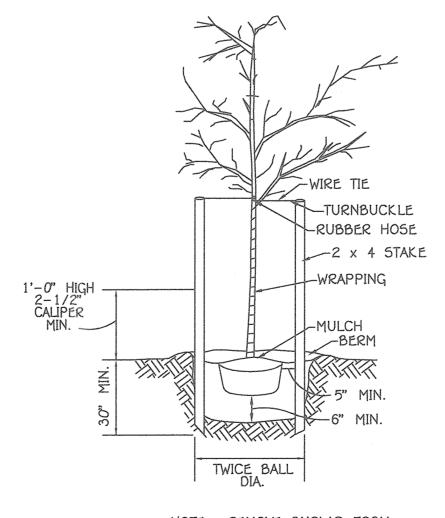
CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE. PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.

STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR WATER DIVERSION WITHIN 24 HOURS OF INSTALLATION. MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND POINT OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

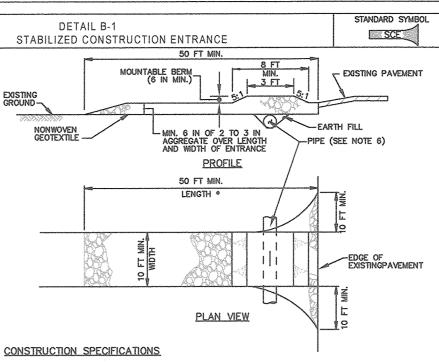


STAKING DETAIL NOT TO SCALE



TREE PLANTING

APPROVED: DEPARTMENT OF PLANNING AND ZONING



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 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.

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

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

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 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.

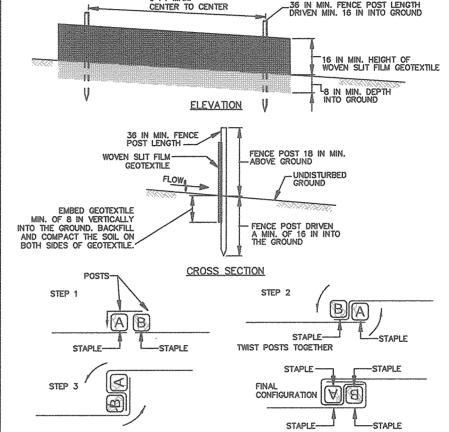
STANDARD SYMBOL

----SF------

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SILT FENCE

DETAIL E-1



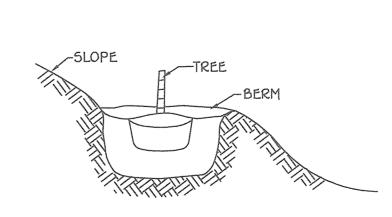
CONSTRUCTION SPECIFICATIONS USE WOOD POSTS 1% X 1% \pm 1% INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.

JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)

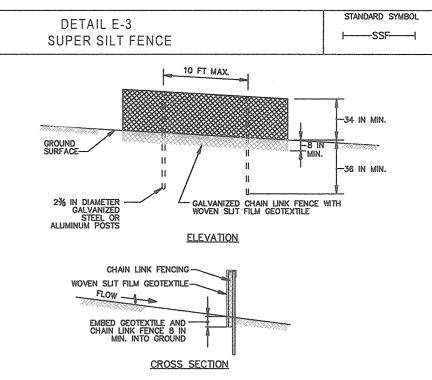
PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES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

EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL



GRADING FOR PLANTING



CONSTRUCTION SPECIFICATIONS

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

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.

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

EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.

PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

PSSMC - *0.5 lb/ft² (* include shear stress) PERMANENT SOIL STABILIZATION MATTING CHANNEL APPLICATION ISOMETRIC VIEW CONSTRUCTION SPECIFICATIONS::

USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS. 2. 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 INCHES AND SUFFICIENTLY BONDED CR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.

5. SECURE MATTING USING STEEL STAPLES OR WOOD STAKES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 ½ INCHES WIDE AND BE A MINIMUM 0.6 I INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPE AT THE SOUTHWAY.

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 PLAN. 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.

STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS. IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, ONCE THE MATTING IS KEYED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL AND LIGHTLY COMPACT OR ROLL TO MAXIMIZE SOIL/MAT CONTACT WITHOUT CRUSHING MAT.

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

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL 2011 SHOW STREES SACCESSION SERVICE WATER MANAGEMENT ADMINISTRATION SHOW STREES SACCESSION SERVICE SHOW STREES PASSED CLOTT) = 62.7 LBS/FT & 0.21 & 0.02 = 0.3 LBS/FT & 0.21 & 0.02 &

OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTOR. (2 WEEKS) NOTIFY "MISS UTILITY" AT LEAST 40 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/ INSPECTION AT 410-313-1330 AT LEAST 24 HOURS BEFORE STARTING WORK.

INSTALL STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKE, SILT FENCE, AND SUPER-SILT FENCE. (1 DAY) REMOVE NECESSARY TREES AND ROUGH GRADE SITE. (2 DAYS) INSTALL TEMPORARY SEEDING. (1 DAY)

UPON CONSTRUCTION OF WATER & SEWER AND UNDERDRAINS, CONSTRUCT DRIVEWAY. INSTALL PERMANENT SOIL STABILIZATION MATTING AS NECESSARY UPON COMPLETION OF GRADING. (2 MONTS) 7. UPON COMPLETION OF ALL GRADING AND ONCE THE CONTRIBUTING DRAINAGE AREA TO THE MICRO-BIORETENTION IS STABILIZED, CONSTRUCT MICRO-BIORETENTION FACILITY AND ASSOCIATED NDS INLETS AND UNDERDRAIN

PIPING. (2 DAYS) INSTALL MICRO-BIORETENTION PLANT MATERIAL AND MULCH. (1 DAY) ALL FINAL GRADES AND STABILIZATION SHOULD BE COMPLETED BEFORE ANY REMOVAL OF CONTROLS. WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED, (3 DAYS)

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

OWNERS / DEVELOPER CYNTHIA G. JETT 484 CALHOUN ROAD EVERETT, PENNSYLVANIA 15537-4230 CONTACT: JAMES JETT 443-257-2796

FISHER, COLLINS & CARTER, INC. IVIL ENGINEERING CONSULTANTS & LAND SURVEYOR TENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIK

ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855

the HOWARD SOIL CONSERVATION DISTRICT.

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

This development plan is approved for soil erosion and sediment control by

ENGINEER'S CERTIFICATE "I/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF

PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

BUILDER/DEVELOPER'S CERTIFICATE

AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, FOR SEDIMENT AND EROSION CONTROL

DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE

4-18-19

6-21-19 5.21-19 5.15.19 **SECTION** PARCEL NO. JETT PROPERTY, LOTS 6 AND 7 CENSUS TR. BLOCK NO. ZONE TAX/ZONE | ELEC. DIST. #24994 FIFTH 602100 15

SEDIMENT AND EROSION CONTROL DETAILS & NOTES

> JETT PROPERTY LOTS 6 AND 7

ZONED R-20 TAX MAP No. 17 GRID No. 15 PARCEL No. 35 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: APRIL, 2019 SHEET 3 OF 3

50P-19-010

