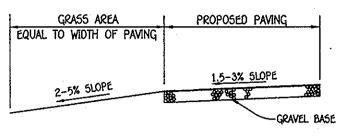
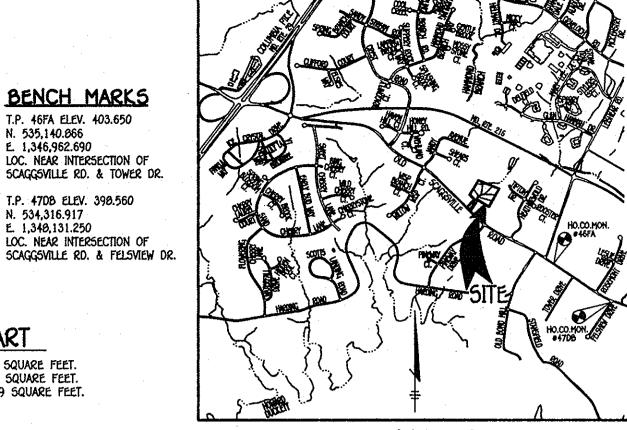
LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
2	40,453 SQ. FT.	1,931 5Q. FT.	38,522 5Q. FT
3	35,120 5Q. FT.	2,315 5Q. FT.	32,805 SQ. FT
4	34,539 5Q. FT.	2,740 5Q. FT.	31,791 5Q. FT.
5	31,295 5Q. FT.	1,858 5Q. FT.	29,437 5Q. FT.
6	29,209 5Q. FT.	1,476 5Q. FT.	27,733 5Q. FT

MINIMUM LOT SIZE CHART



TYPICAL DRIVEWAY SECTION FOR NON-ROOFTOP DISCONNECT CREDIT NOT TO SCALE



# SITE ANALSIS DATA CHART

A. TOTAL PROJECT AREA: 4.723 ACRES OR 205,734 SQUARE FEET. B. AREA OF SUBMISSION: 4.723 ACRES OR 205,734 SQUARE FEET. C. LIMITS OF DISTURBANCE: 1.834 ACRES OR 79,889 SQUARE FEET. D. PRESENT ZONING DESIGNATION: R-20. E. PROPOSED USES FOR SITE: RESIDENTIAL

FOR REVISIONS BY BET ONLY

BELKYMSEK ENG. INC.

ELLICOTOTY MD 21043

SUTTE 418

(410) 465 6105

8480 36TIMORE NATE PIKE

VICINITY MAP 5CALE: 1" = 2000' HOWARD COUNTY ADC MAP MAP 19, GRID D7

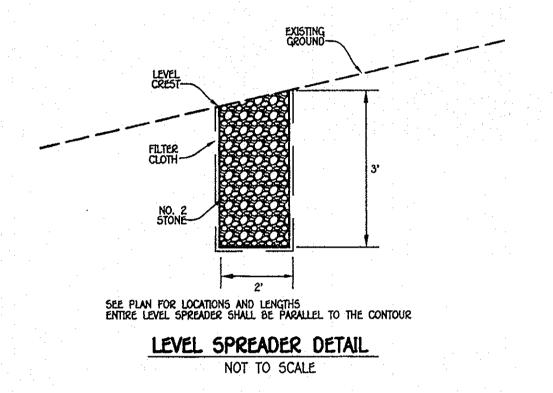
#### GENERAL NOTES

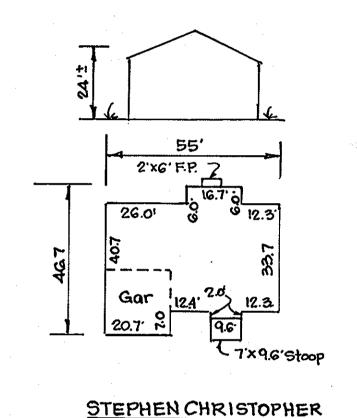
N. 535,140,866 E. 1,346,962.690

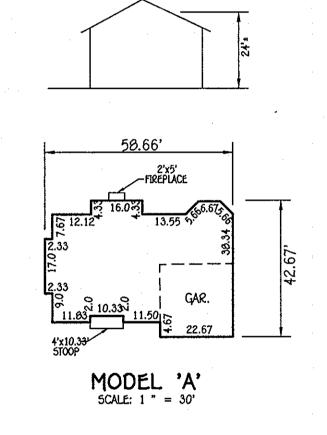
T.P. 4708 ELEV. 390.560 N. 534,316.917 E. 1,348,131.250

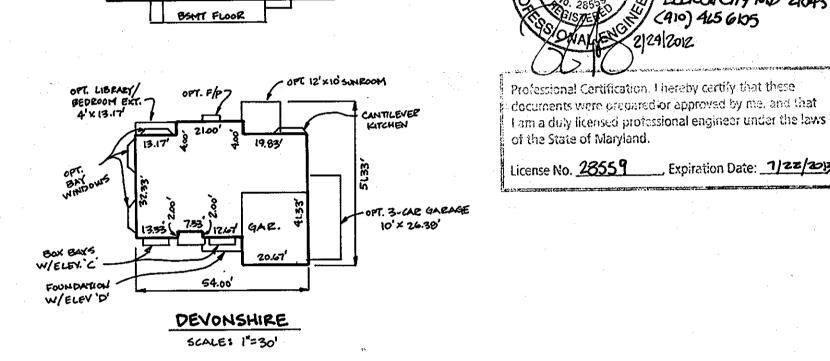
- 1. SUBJECT PROPERTY ZONED R-20 PER THE 02/02/09 COMPREHENSIVE ZONING PLAN AND THE COMPLETE ZONING AMENDMENTS EFFECTIVE 07/28/06.
- 2. TOTAL AREA OF SITE: 4.723 ACRES
- 3. TOTAL NUMBER OF LOTS SUBMITTED: 6 SFD 4. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIMSION AT (410)313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK. 5. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS
- PRIOR TO ANY EXCAVATION WORK. 6. THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: F-09-095, 5P-08-17, 5 CONT. NO. 5295,
- W&5 CONT. NO. 24-4403-D. 7. THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH 2 FOOT CONTOUR
- INTERVALS PREPARED BY DAFT, McCUNE, WALKER, INC., JUNE, 2000.
- 8. HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON NAD 83. MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.
- HOWARD COUNTY MONUMENT 46FA N 535,140.866 E 1,346,962.690 HOWARD COUNTY MONUMENT 47HA N 534,316.917 E 1,348,131.250 9. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- 10. THIS PLAN IS FOR HOUSE SITING AND GRADING ONLY. IMPROVEMENTS SHOWN WITHIN THE RIGHTS-OF-WAY OF THIS S.D.P. ARE NOT USED FOR CONSTRUCTION. FOR APPROVED WATER AND SEWER PLANS CONTRACT NO. 24-4403-D.
- 11. CONTRACTOR WILL CHECK SEWER HOUSE CONNECTION ELEVATION AT EASEMENT LINE PRIOR TO CONSTRUCTION. 12. FOREST CONSERVATION REQUIREMENTS HAVE BEEN ADDRESSED WITH F-09-095.
- 13. FOR DRIVEWAY ENTRANCE DETAILS SEE HO. CODES MANUAL VOL. IV DETAILS R.6.03 & R.6.05. 14. THIS PLAN IS SUBJECT TO THE AMENDED 5TH EDITION OF THE SUBDIMISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL NO. 45-2003 AND THE ZONING REGULATIONS AS AMENDED UNDER
- COUNCIL BILL NO. 75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION OR BUILDING/GRADING PERMIT. 15. IN ACCORDANCE WITH SECTION 128 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 REAR YARD SETBACKS. THE 15' MINIMUM DISTANCE BETWEEN STRUCTURES DOES NOT APPLY TO THOSE REFERENCED FEATURES NOR BETWEEN OPEN DECKS AND A DWELLING STRUCTURE OR ANOTHER
- DECK. AS AN ADVISORY, THE 15' DISTANCE DOES APPLY TO THE SECOND STORY OVERHANG. 16. DRIVEWAYS 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:
  - B.) SURFACE 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN.)
  - C.) GEOMETRY MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45 FOOT TURNING RADIUS. D.) STRUCTURES - (BRIDGES/CULVERTS) CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING) e.) Drainage elements capable of safety passing 100 year flood with no more than I foot
  - DEPTH OVER DRIVEWAY SURFACE. F.) STRUCTURE CLEARANCES - MINIMUM 12 FEET
- G.) MAINTENANCE SUFFICIENT TO INSURE ALL WEATHER USE. 17. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW STRUCTURES IS PERMITTED
- WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS. 16. TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY MARS GROUP, DATED JUNE 2006 AND
- APPROVED UNDER 5P-08-17 ON JULY 24, 2008.
- 19. NO CEMETERIES EXIST ON THIS SITE BASED ON A VISUAL SITE VISIT AND BASED ON A EXAMINATION OF THE HOWARD COUNTY CEMETERY INVENTORY MAP.
- 20. THERE IS NO 100 YEAR FLOOD PLAIN ON THIS PROPERTY.
- 21. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. 22. A PRIVATE ROAD STREET NAME SIGN (5N5)ASSEMBLY THAT NEEDS TO BE INSTALLED AT THE INTERSECTION OF THE PRIVATE ROAD AND THE PUBLIC ROAD SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION
- AT (410) 313-5752 FOR DETAILS AND COST ESTIMATES. 23. THE FOREST STAND DELINEATION AND WETLAND DELINEATION FOR THIS PROJECT WAS PREPARED BY
- ECO-SCIENCE PROFESSIONALS, INC., DATED APRIL 15,2000 AND APPROVED UNDER SP-00-17 ON 24. STORMWATER MANAGEMENT FOR THIS PROJECT WILL BE PROVIDED IN ACCORDANCE WITH THE CRITERIA
- CONTAINED IN THE 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUMES ! & II, CHAPTER 5 "STORMWATER CREDITS FOR INNOVATIVE SITE PLANNING". SOME OF THE WQV AND REV WILL BE PROVIDED AND MAINTAINED BY UTILIZING NON-STRUCTURAL BEST MANAGEMENT PRACTICE IN ACCORDANCE WITH CHAPTER 5 OF THE DESIGN MANUAL THE REMAINING REQUIREMENTS WILL BE ADDRESSED WITH LEVEL SPREADERS. CPV WAS NOT REQUIRED BECAUSE THE ONE (1) YEAR STORM IS LESS THAN THE 2.0 CFS
- MANDATED BY THE AFOREMENTIONED MANUAL AS APPROVED PER F-09-095. 25. THE FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL FOR THIS SUBDIMISION WILL BE FULFILLED BY A FEE-IN-LIEU
- PAYMENT OF \$22,069.00 BASED ON 0.70 ACRES X 43,560 SQ. FT./ACRE X \$0.75/SQ. FT. W/F-09-95. 26. LANDSCAPING FOR THIS SUBDIVISION AND REQUIRED SURETY AMOUNT OF \$9,750.00, BASED ON TWENTY (20) SHADE TREES @ \$300/SHADE TREE AND TWENTY-FIVE (25) EVERGREENS @ \$150/ EVERGREEN TREE WILL BE PROVIDED WITH A DEVELOPER'S AGREEMENT WITH THE FINAL PLANS IN ACCORDANCE WITH SECTION 16.124 OF THE SUBDIMISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY
- LANDSCAPE MANUAL . W/F-09-95. 27. THIS PROPERTY IS LISTED IN THE HOWARD COUNTY HISTORIC SITES INVENTORY AS HO-707. THE PLAN WAS REVIEWED BY THE HISTORIC DISTRICT COMMISSION ON JUNE 5, 2008 AS CASE HDC-08-30.
- THE COMMISSION HAD NO OBJECTION TO THE PROPOSAL 28. THE USE-IN-COMMON DRIVEWAY MAINTENANCE AGREEMENTS FOR LOTS 1 THRU 6 HAVE BEEN RECORDED IN
- THE HOWARD COUNTY LAND RECORDS OFFICE SIMULTANEOUSLY WITH THE RECORDATION OF THIS SUBDIVISION. 29. OPEN SPACE REQUIREMENTS ARE PROVIDED BY A FEE-IN-LIEU PAYMENT OF \$6,000.00 BASED ON
- 4 LOTS X \$1,500/LOT. 30. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING.
- 31. ALL SEWER HOUSE CONNECTION ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- 32. EXISTING UTILITIES ARE BASED ON WATER AND SEWER CONTRACT NO. 24-4403-D.

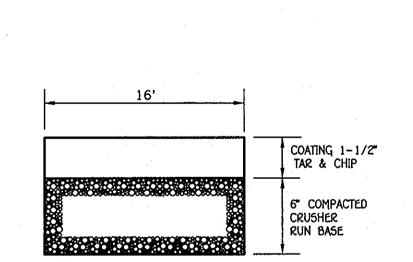
# 5CALE: 1" = 30"







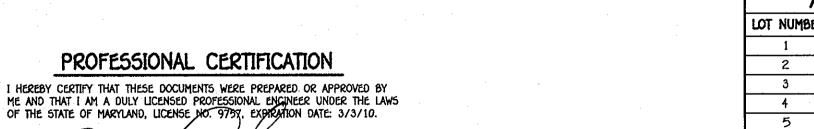




COMMON DRIVEWAY DETAIL

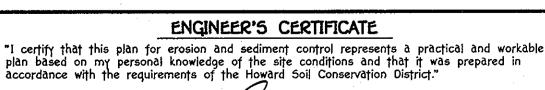
NOT TO SCALE

LEGEND DESCRIPTION ----- EXISTING CONTOUR 2' INTERVAL ----- PROPOSED CONTOUR 2' INTERVAL +362.2 | SPOT ELEVATION WALKOUT BASEMENT -SF-SF-SILT FENCE -55F-55F- SUPER SILT FENCE -TP -TP - TREE PROTECTION -SF/TP-SF/TP- SILT FENCE/TREE PROTECTION erosion control matting



ADDRESS CHART					
LOT NUMBER	STREET ADDRESS				
1	8411	LILLIAN LANE			
2	8415	LILLIAN LANE			
3	8419	LILLIAN LANE			
4	8418	LILLIAN LANE			
5	8414	LILLIAN LANE			
. 6	8410	LILLIAN LANE			

····· · · · · · · · · · · · · · · · ·	INDEX CHART
SHEET	DESCRIPTION
SHEET 1	TITLE SHEET, NOTES, CHARTS & HOUSE TYPE
SHEET 2	SITE DEVELOPMENT PLAN, LOTS 1 THRU 6
SHEET 3	SEDIMENT/EROSION CONTROL PLAN LOTS 1 THRU 6
SHEET 4	SEDIMENT/EROSION CONTROL NOTES & DETAILS



TERRELL A. FISHER 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

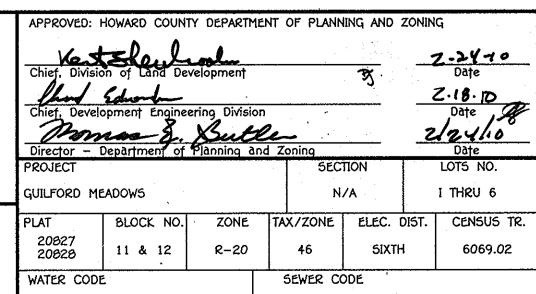
beginning the project. I also authorize periodic on-site inspection by the Howard Soil

Conservation District." Conservation District." I former signature of Developer STEVE FORNEY

plan is approved for soil erosion and sed	liment control by $\frac{2}{\sqrt{1}}$
OWNER/BUILDER/DEVELOP	<u>'ER</u>
HAMILTON REED	<del></del>

GLENWOOD, MARYLAND 21730

410-442-1751



7390000

C-02

SINGLE FAMILY DETACHED

TITLE SHEET

GUILFORD MEADOWS LOTS 1 THRU 6

ZONED: R-20

PLAT NO'5. 20827 & 20828 TAX MAP NO.: 46 PARCEL NO'5.: 6 & 12 GRID NO'5.: 11 & 12 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: NOVEMBER, 2009

SHEET 1 OF 4

FISHER, COLLINS & CARTER, INC. VIL ENGINEERING CONSULTANTS & LAND SURVEYOR XUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PR

THE SUBSEQUENT RELEASE OF SURETY

BUILDER/DEVELOPER'S/ CERTIFICATE

I/WE CERTIFY THAT THE REQUIRED LANDSCAPING WILL BE DONE ACCORDING TO THE PLAN AND LOCATED AS DETERMINED AND APPROVED BY THE ARCHITECTURAL COMMITTEE IN

ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND

Ken 4 tomers

DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF NOTICE ACCOMPANIED BY A COPY OF THE ARCHITECTURAL committee approved plan and an executed one year guarantee of plant materials,

WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING FOR INSPECTION AND



2.23.2d2

7-20-1 DATE

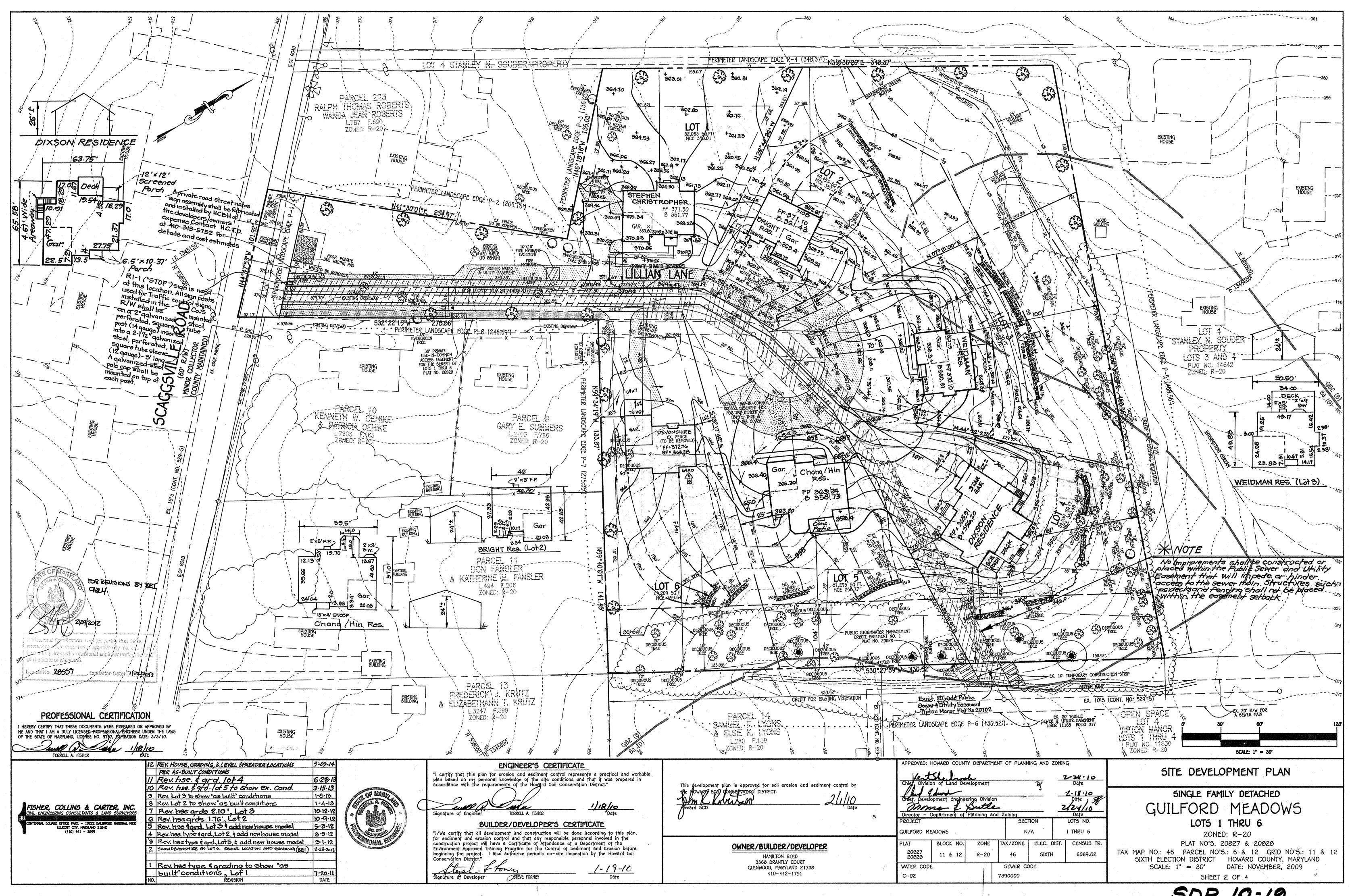
ADD DEVONSHIRE MODEL (BEI)

Add Stephen Christopher Model

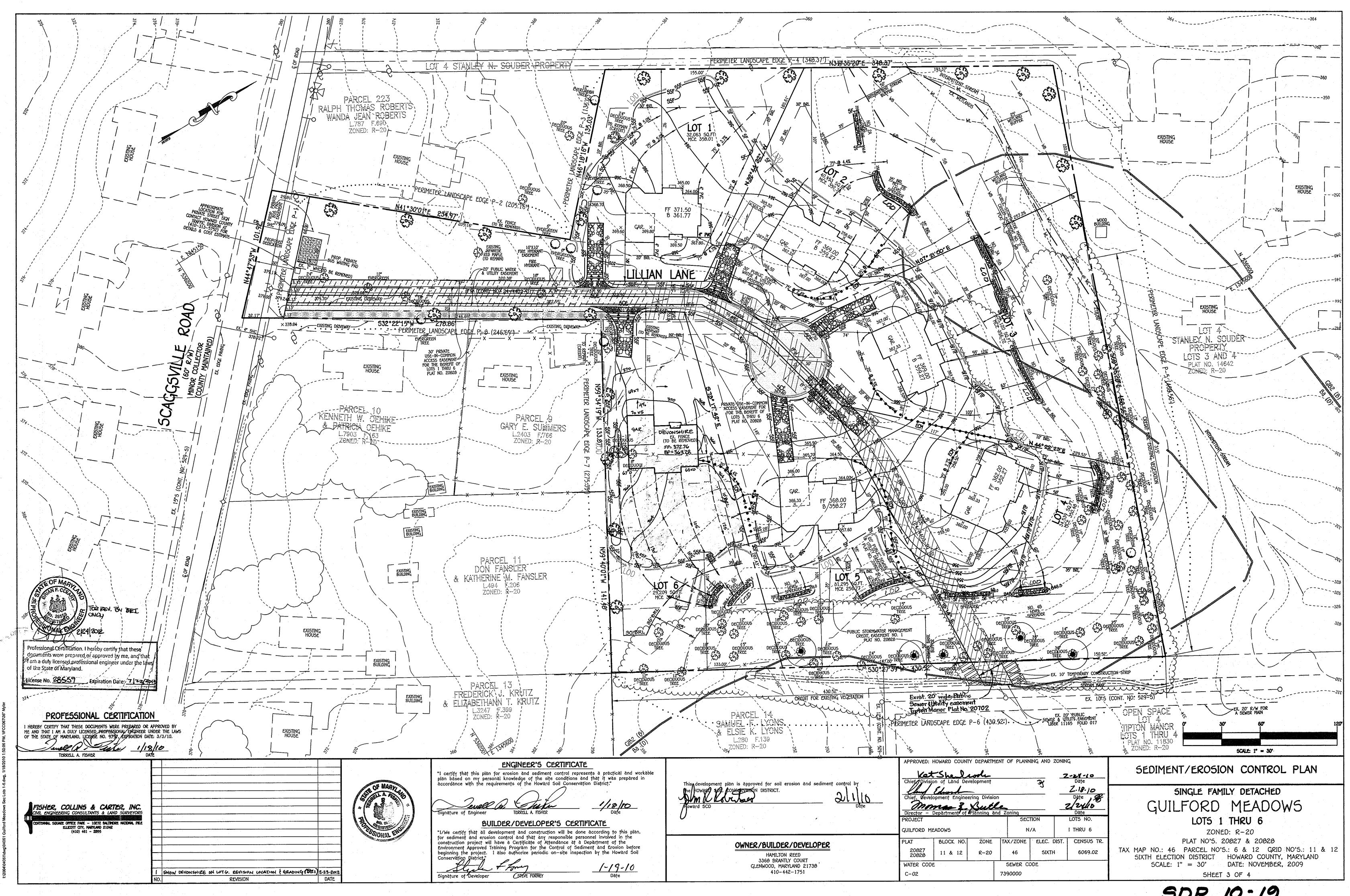








SDP 10-19



#### 20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION DEFINITION

Using vegetation as cover for barren soil to project it from forces that cause erosion

Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources.

#### CONDITIONS WHERE PRACTICE APPLIES

This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration O(up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary Soil Stockpiles, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dams, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc. EFFECTS ON WATER QUALITY AND QUANTITY

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seedbed preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

#### SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS A. Site Preparation

- i. Install erosion and sediment control structures (either temporary of permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually
- necessary for temporary seeding.

  iii. Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed area over 5 acres.

  B. Soil Amendments (Fertilizer and Lime Specifications)
- i. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
- ii. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application b approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warrantee
- of the producer. iii. Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 98-100% will pass through a #20
- mesh sieve. iv. Incorporate lime and fertilizer into the top 3–5° of soil by disking or other suitable means C. Seedbed Preparation
  i. Temporary Seeding
  a. Seedbed preparation shall consist of loosening soil to a depth of 3" to 5" 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 should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be tracked leaving the surface in an irregular condition with ridge running parallel to the contour of the slope.
- c. In corporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.

  ii. Permanent Seeding Minimum soil conditions required for permanent vegetative establishment
   Soil ph shall be between 6.0 and 7.0.
  - Soluble salts shall be less than 500 parts per million (ppm). The soil shall contain less than 40% clay, but enough fine grained material (>30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lovegrass or serecia lespedezas is to be planted, then a sandy soil (<30% si
  - plus clay) would be acceptable. Soil shall comtain 1.5% minimum organic matter by weight. Soil must contain sufficient pore space to permit adequate root penetration If these conditions cannot be met by soils on site, adding topsoil is required
  - in accordance with Section 21 Standard and Specification for Topsoil. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
  - Apply soil amendments as per soil test or as included on the plans.

    Mix soil amendments into the top 3-5 of topsoil by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application. Where site conditions will not permit normal seedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the compour of the slope. The top 1-3 of soil should be loose and friable. Seedbed loosening may not be necessary on
- D. Seed Specifications All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on this job.
- Note: Seed tags shall be made available to the inspector to verify type and rate of seed used. ii. inoculant — The inoculant for treating legume seed in the seed mixtures shall be a pure culture of introgen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later than the date indicated on the container. Add tresh inoculant as directed on 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°-80° F. can weaken bacteria and make the inoculant less effective.
- Methods of Seeding

  i. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcas or drop seeded, or a cultipacker seeder. a. If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen; maximum of 100 lbs. per acre total of soluble nitrogen; P205 (phosphorous); 200 lbs/ac; K20 (potassium): 200 lbs/ac. 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. Seed and tertilizer shall be mixed on site and seeding shall be done immediately and
- without interruption.

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

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

  Temporary or Permanent Seeding Summaries or Tables 265 or 26. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.

  The Seeding of the seeding rate in each direction.

  Where practical, seed should be applied in two directions perpendicular to each other.

  Apply half the seeding rate in each direction.
- iii. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
- 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.

  Where practical, seed should be applied in two directions perpendicular to each other.

  Apply half the seeding rate in each direction. Mulch Specifications (in order of preference)
- i. Straw shall consist of thoroughly threshed wheat, rive or oat straw, reasonable bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
- Wood Cellulose Fiber Mulch (WCFM)

  a. WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.
  - WCFM shall 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. WCFM, including dye, shall contain no germination or growth inhibiting factors. WCFM materials shall 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 shall form a blotter-like ground cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings. WCFM material shall contain no elements or compounds at concentration levels that f. WCFM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 1.6% maximum and water holding capacity of 90% minimum.

  Note: Only sterile straw mulch should be used in areas where one species of grass is desired.

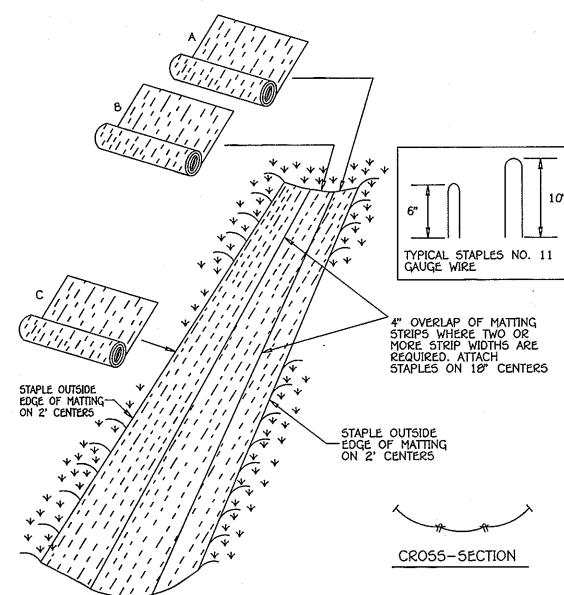
- G. Mulching Seeded Areas Mulch shall be applied to all seeded areas immediately after seeding If grading is completed outside of the seeding season, mulch along shall be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.
- ii. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.
- iii. Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water. Securing Straw Mulch (Mulch Anchoring): Mulch anchoring shall be performed immediately following mulch
- application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and erosion hazard: A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. It used on sloping
- land, this practice should be used on the confour if possible.

  ii. Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be mixed with water and e mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons
- iii. Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and crest of banks. The remainder of area should be appear uniform after binder application. Symthetic binders such as Acrylic DLR (Agro-Tack), DCA-70 Petroset, Terra Ta . Terra Tack AR or other approved equal may be used at rates recommended by the
- iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer's recomnendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long. Incremental Stabilization - Cut Slopes
- All cuts slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slope shall be excavated and stabilized in equal increments not to exceed 15'. ii. Construction sequence (Refer to Figure 3 below):
- a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
   b. Perform Phase 1 excavation, dress, and stabilize.
- Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as necessary.
  Perform tinal phase excavation, dress and stabilize. Overseed previously seeded
- Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions int he operation of completing the operation out of the seeding season will necessitate the application of temporary stabilization. J. Incremental Stabilization of Embankments - Fill Slopes
  - Embankments shall be constructed in lifts as prescribed on the plans.
  - ii. Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches
    15°, or when the grading operation ceases as prescribed in the plans.

    iii. At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to
  - a sediment trapping device. iv. Construction sequence: Refer to Figure 4 (below).
  - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct slope silt fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address this area.

    Place Phase 1 embankment, dress and stabilize. Place Phase 2 embankment, dress and stabilize.
- Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.

  Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of and placement of topsoil (if required) grading and permanent seed and mulch. any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.



## Construction Specifications

- 1. Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6". 2. Staple the 4" overlap in the channel center using an 18" spacing
- 3. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
- 4. Staples shall be placed 2' apart with 4 rows for each strip. 2 outer rows, and 2 atternating rows down the center. 5. Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4". shiplap fashion. Reinforce the overlap with a double row of staples
- spaced 6" apart in a staggered pattern on either side. '6. The discharge end of the matting liner should be similarly secured with 2 double rows of staples. Note: If flow will enter from the edge of the matting then the area

effected by the flow must be keyed-in. EROSION CONTROL MATTING NOT TO SCALE

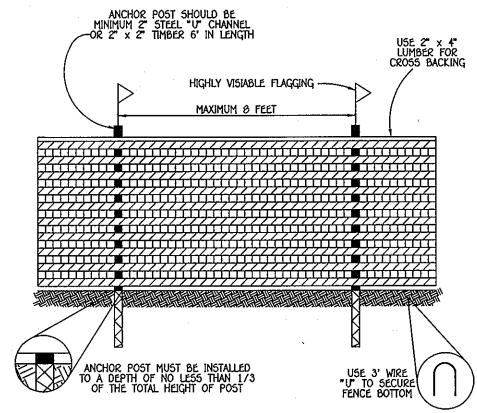
# STANDARDS AND SPECIFICATIONS FOR TOPSOIL

- Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation
- To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.
- Conditions Where Practice Applies 1. This practice is limited to areas having 2:1 or flatter slopes where:
- a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth. b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients. c. The original soil to be vegetated contains material toxic to plant growth
- d. The soil is so acidic that treatment with limestone is not feasible. II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.
- Construction and Material Specification I. Topsoil salvaged from the existing site may be used provided that 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-SCS in cooperation with Maryland Agricultural Experimental Station.
- 11 Topsoil Specifications Soil to be used as topsoil must meet the following
- i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 11/2" in diameter.
- ii. Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison iγγ, thistle, or others as specified. iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement
- of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures. II. For sites havinc, disturbed areas under 5 acres: i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative
- Stabilization Section I Vegetative Stabilization Methods and Materials. III. For sites having disturbed areas over 5 acres:
- i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following: a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be perscribed to raise the pH to 6.5 or higher.
- b. Organic content of topsoil shall be not less than 1.5 percent by weight. c. Topsoil having soluble salt content greater than 500 parts per million shall not be used. d. No sod or seed shall 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.
- Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil. ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials. V. Topsoil Application
- i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins. ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" — 8" higher in elevation.
- iii. Topsoil shall be uniformly distributed in a 4" 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seedine can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- iv. Topsoil shall not be placed while 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.
- VI. Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercia fertilizer, composted studge and amendments may be applied as specified below: i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres
  - shall conform to the following requirements:

    a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06. b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 6.0. If compost does not meet these requirements,

he appropriate constituents must be added to meet the requirements prior to use.

c. Composted sludge shall be applied at a rate of I ton/1,000 square feet. iv. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate. References: Guideline Specifications, Soil Preparation — and Sodding, MD—VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.



1. FOREST PROTECTION DEVICE ONLY. 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS . BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE. 4. ROOT DAMAGE SHOULD BE AVOIDED. 5. PROTECTIVE SIGNAGE MAY ALSO BE USED.

6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

BLAZE ORANGE PLASTIC MESH TREE PROTECTION DETAIL NOT TO SCALE

### TEMPORARY SEEDING NOTES

- Apply to graded or cleared greas likely to be redisturbed where a short-term vegetative cover is needed. Seedbed Preparation: Loosen upper three inches of soil by raking,
- discing or other acceptable means before seeding, if not previously Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.).
- Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mutch and seed as soon as

possible in the spring, or use sod.

- Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.
- Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

#### PERMANENT SEEDING NOTES

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:
- 1) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.). 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23
- lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. Seeding: For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period
- October 16 thru February 28, protect site by one of the following options: 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring. Use sod. ) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch
- with 2 tons per acre well anchored straw. Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 100 sq.ft.) of unrotted small grain straw immediately after seeding. or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

  Maintenance: Inspect all seeded areas and make needed repairs.

### SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LISCENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1055). ALL VECETATIVE AND STOLICTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING
- SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1 CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN
- ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES. 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR their removal has been obtained from the Howard County Sediment CONTROL INSPECTOR
- 7) SITE ANALYSIS: TOTAL AREA OF SITE 4.653 ACRES AREA DISTURBED 1.834 ACRES AREA TO BE ROOFED OR PAVED 0.546 ACRES AREA TO BE VEGETATIVELY STABILIZED 1.200 ACRES TOTAL CUT 0 CU.Y05

0 CU.YD5.

7 DAYS

2 DAYS

60 DAYS

- OFFSITE WASTE/BORROW AREA LOCATION STOCKPILING WILL NOT BE PERMITTED ON SITE 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE
- SAME DAY OF DISTURBANCE ) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION
- BY THE INSPECTION AGENCY IS MADE 11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGHTS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL

## SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN 3. CLEAR AND GRUB TO LIMITS OF DISTURBANCE INSTALL TEMPORARY SEEDING CONSTRUCT BUILDINGS FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE
- REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR.

NOTE: FENCE POST SPACING SHALL NOT EXCEED I CENTER TO CENTER TRUNKTETIE GROUND/ 118118111 SURFACE 36" Minimun FLOW FLOW 21/2" DIAMETER GALVANIZED OR ALLIMINUM WITH I LAYER OF FILTER CLOTH CHAIN LINK FENCING FILTER CLOTH FLOW -\_\_\_ 71×11×11×-EMBED FILTER CLOTH &-MINIMUM INTO GROUND \* IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN 42" Construction Specifications 1. Fencing shall be 42" in height and constructed in accordance with the

10' MAXIMUM

- latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
- 2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
- 3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

4. Filter cloth shall be embedded a minimum of 8° into the around.

- 5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded. 6. Maintenance shall be performed as needed and silt buildups removed when "bulges"
- develop in the silt fence, or when silt reaches 50% of fence height 7. Filter cloth shall be fastened securely to each fence post with wire ties of staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength Tensile Modulus Flow Rate Filtering Efficien	20 Jb 0.3 cγ 75% (min	s/in (min.) vs/in (min.) gàl/ft /minute n.) sign Criteria	Test: M5MT 509 Test: M5MT 509 (max.) Test: M5MT 322 Test: M5MT 322
Slope  0 ~ 10%  10 ~ 20%  20 ~ 33%	Slope Steepness 0 - 10:1 10:1 - 5:1 5:1 - 3:1	Slope Length (maximum) Unlimited 200 feet 100 feet	Silt Fence Length (maximum)  Unlimited 1,500 feet 1,000 feet

33 - 50% 3:1 - 2:1 100 feet 500 feet 2:1 + 50 feet SUPER SILT FENC NOT TO SCALE

— existing trees to remain

— Fence Wire

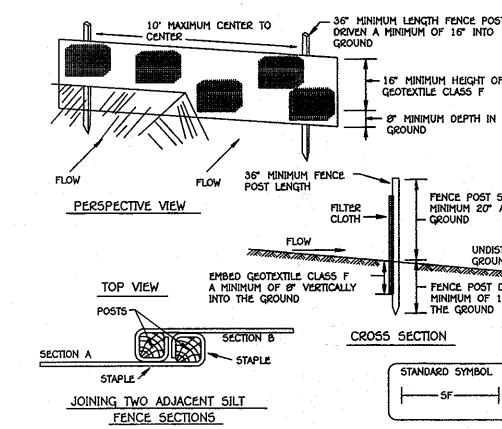
orange streamers

DRIVEN INTO GROUND OR

SILT FENCE (SEE NOTES)

- EXISTING GRADE

YELLOW PINE POST IN



Construction Specifications 1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut. or 13/4" diameter minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot

FENCE POST SECTION

- FENCE POST DRIVEN

Test: MSMT 509

MINIMUM OF 16" INTO

UNDISTURBED

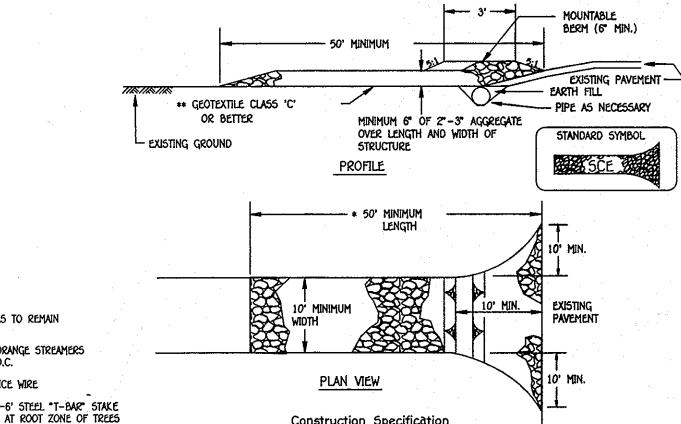
2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F. Tensile Strength 50 lbs/in (min.

ensile Modulus 20 [bs/in (min.) Test: MSMT 509 Test: MSMT 322 Flow Rate 0.3 gal ft / minute (max.) Filtering Efficiency 3. Where ends of geotextile fabric come together, they shall be overlapped

folded and stapled to prevent sediment bypass. 4. Silt Fence shall be inspected after each rainfall event and maintained when oulges occur or when sediment accumulation reached 50% of the fabric height Silt Fence Design Criteria

(Maximum) 5ilt Fence Length Slope Length Slope Steepness Flatter than 50:1 125 feet 50:1 to 10:1 10:1 to 5:1 100 feet 750 feet 60 feet 5:1 to 3:1 500 feet 3:1 to 2:1 40 feet 2:1 and speeper Note: In areas of less than 2% slope and sandy soils (USDA general system, soil Class A) maximum slope length and silt fence length will be

unlimited. In these areas a silt fence may be the only perimeter control



Construction Specification 1. Length - minimum of 50° (+30° for single residence lot). 2. Width - 10' minimum, should be flared at the existing road to provide a turning radius. 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. \*\*The plan approval authority may not require single family residences to use geotextile.

4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance. 5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance

STABILIZED CONSTRUCTION ENTRANCE

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



ENGINEER'S CERTIFICATE l 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 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 invironment Approved Training Program for the Control of Sediment and Erosion before peginning the project. I also authorize periodic on—site inspection by the Howard Soil SON CONSENTION DISTRICT.

OWNER/BUILDER/DEVELOPER HAMILTON REED 3360 BRANTLY COURT

2-24-10 Date of Land Devel 2.18.10 Dévelopment Enaineerina Divisio Director - Department of Planning and Zoning i thru 6 GUILFORD MEADOWS CENSUS TR. BLOCK NO. ZONE AX/ZONE | ELEC. DIST. 6069.02 R-20 20828 WATER CODE SEWER CODE 7390000

1. SILT FENCE TO BE HEELED INTO THE SOIL.

2. WIRE, SNOW FENCE, ETC. FOR TREE PROTECTION ONLY

THE FOREST CONSERVATION PLAN REVIEW PROCESS.

. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS

3. BOUNDARIES OF RETENTION AREA WILL BE ESTABLISHED AS PART OF

1. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED

DEVICE SHOULD BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION

PROTECTION SIGNS ARE ALSO REQUIRED, SEE FIGURE C-4. 6. LOCATE

SILT FENCE AND TREE PROTECTION

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

NOT TO SCALE

SEDIMENT/EROSION CONTROL NOTES & DETAILS

SINGLE FAMILY DETACHED GUILFORD MEADOWS

LOTS 1 THRU 6

ZONED: R-20 PLAT NO'5. 20827 & 20828 TAX MAP NO.: 46 PARCEL NO'S.: 6 & 12 GRID NO'S.: 11 & 12 SIXTH ELECTION DISTRICT

SHEET 4 OF 4

HOWARD COUNTY, MARYLAND

DATE: NOVEMBER, 2009

SDP 10-19

oignature of Engineer

1-19-10 7 Joney

GLENWOOD, MARYLAND 21738 410-442-1751

SCALE: AS SHOWN