

21.0 STANDARDS AND SPECIFICATIONS PERMANENT SEEDING NOTES DETAIL 30 - EROSION CONTROL MATTING FOR TOPSOIL DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE SEDIMENT CONTROL NOTES APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE
FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE
COVER IS NEEDED.

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COVER IS NEEDED. ill. 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 Existing Contour -----382 1. A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permits Sediment Control Division prior to the start of BERM (6" MIN.) Proposed Contour feet) prior to the placement of topsoil. Lime shall be any construction (313-1855) Purpose SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened. +82⁵³ distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described -- EXISTING Spot Elevation To provide a suitable soil medium for vegetable growth. PAVEME 2. All vegetation and structural practices are to be installed according to the ___ Soils of concern have law moisture content, low nutrient Direction of Flow in the following procedures. provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL 11. For sites havina disturbed areas under 5 acres: SOIL AMENDMENTS: In lieu of soil test recommendations, use one of - FARTH FILL i. Place topsoil (if required) and apply soil
 amendments as specified in 20.0 Vegetative Stabilization –
 Section 1 – Vegetative Stabilization Methods and Materials. the fallowing schedules: Stabilized Construction ---- PIPE AS NECESSAR and revisions thereto. ** GEOTEXTILE CLASS -Conditions Where Practice Applies 1) Preferred-Apply 2 tons per acre dolomitic limestone (92 lbs/100 sq.ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs./ Entrance 1. This practice is limited to areas having 2:1 or flatter 3. Following initial soil disturbance or redisturbance, permanent or temporary 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 prescribed to raise
the pH to 6.5 or higher. 1000 sq.ft.) before seeding. Harrow or disc into upper three - EXISTING GROUND Silt Fence stabilization shall be completed within: (a) 7 calendar days for all perimeter inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq.ft.) sediment control structures, dikes, perimeter slopes, and all slopes greater PROFILE slopes where:

a. The texture of the exposed subsoil/parent material Limit of Disturbance 2) Acceptable-Apply 2 tons per acre dolomatic limestone (92 lbs. than 3:1, (b) 14 days as to all other disturbed or graded areas on the is not adequate to produce vegetative growth ----* 50' MINIMUM ---1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10- fertilizer (23 lbs./1600 sq.ft.) before seeding. Harrow or disc into upper project site. The soil material is so shallow that the rooting Erosion Control Mattina zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients. three inches of soil. 6.0, sufficient lime shall be prescribed 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 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 onto-toxic materials. 4. All sediment traps/basins shown must be fenced and warning signs posted CROSS-SECTION around their perimeter in accordance with Vol. 1, Chapter 7, HOWARD COUNTY the periods March I thru April 30, and August I thrused with 60 lbs. per acre (1,4 lbs/1000 sq.ft.) of DESIGN MANUAL, Storm Drainage 66 dBa Mitigated Noise Line —— The original soil to be vegetated contains Tall Fescue. For the period May I thru July 31, seed Kentucky 31 Tall Fescue per acre and 2 lbs. per acre on 60 saft.) of weeping lovegrass. During the period of nru February 28, protect site by: Option (1) 2 tans projected by MDSHA 5. All disturbed areas must be stabilized within the time period specified above d. The soil is so acidic that treatment with in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL OVERLAP OF MATTI EROSION AND SEDIMENT CONTROL for permanent seeding, sod, temporary seeding, per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored II For the purpose of these Standards and Specifications and mulching (Sec. G). Temporary stabilization with mulch alone shall be done 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. phyto-toxic materials. NOTE: Topsoil substitutes or amendments, as recommended when recommended seeding dates do not allow for proper germination and by a qualified agronomist or soil scientist and approved be the appropriate approval authority, may be used in lieu o establishment of arasses. STANDARD SYMBOL PLAN VIEW MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 a, ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring. 6. All sediment control structures are to remain in place and are to be SCE SCE Construction and Material Specifications ii. Place topsoil (if required) and apply soil ammendments specified in 20.0 Vegetative Stabilization-Section I-Vegetative Stabilization Methods and Materials. maintained in operative condition until permission for their removal has been Topsoil salvaged from the existing site may be used obtained from the Howard County Sediment Control Inspector. BENCHMARKS 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 Length - minimum of 50' (* 30' for a single residence lot). V. Topsoil Application 7. Site Analysis When topsoiling, maintain needed erosion and MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings. . Width - 10' minimum, should be flared at the existing road to provide a turning radius sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and representative soil profile section in the Soil Survey Sta. 47GA N532,404.175 (ft) E 1,351,627.338 (ft) E1. 350.405 (ft) Total Area ublished by USDA-SCS in cooperation with Maryland 6. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. ** The plan approval authority may not require single Area Disturbed 0.35 Acres N 162,277.1172 (m) E 411,976.8367 (m) E1. 106.8038 (m) 0.08 Acres 0.27 Acres *364 CY ii. Grades on the areas to be topsoiled, which have Area to be roofed or paved Station is 8' East of edge of paving on Rte. 216 and 195' south of bridge over 1-95 North Bound Lane. TEMPORARY SEEDING NOTES II. Topsoil Specifications - Soit to be used as topsoil Area to be vegetatively stabilized 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. SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used it recommended by an agronomist or a soil scientist and iii. Topsoil shall be uniformly distributed in a 4" -Total Fill Sta. 47GB N 529,917.204 (ft) E 1,353,526.738 (ft) E1. 259.195 (ft) 8° layer and lightly compacted to a minimum thickness of 4° Spreading shall be performed in such a manner that sodding 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 Offsite waste/borrow area location N 161,519.087 (m) E 412,555.7750 (m) E1. 79.0027 (m) or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft). approved by the appropriate approval authority. Regardless, 8. Any sediment control practice which is disturbed by grading activity for Station is in the Island 8' North of edge of paving on Rte. 216 openil shall not be a mixture of contrasting textured TYPICAL STAPLES NO placement of utilities must be repaired on the same day of disturbance. East Bound Lane and 48.8' East of Inlet Grate in the same Island. subsoils and shall contain less than 5% by volume of SEEDING: For periods March I thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs./1000 sq.ft.) For the period May I thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq.ft.). For the period November I thru February 28, protect site by applying 2 tons GAUGE WIRE cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger that I and 1/2 in 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. corrected in order to prevent the formation of depressions 9. Additional sediment controls must be provided, if deemed necessary by the iv. Topsoil shall not be place while the topsoil or Howard County Sediment Control Inspector. 6. 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. Construction Specifications 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. diameter.

Topsoil must be free of plants or plant parts such GENERAL NOTES 10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection er acre of well anchored straw mulch and seed as soon as possibl as Bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified. . Key-in the matting by placing the top ends of the matting in a agency shall be requested upon completion of installation of perimeter erosion narrow trench, 6" in depth. Backfill the trench and tamp firmly to and sediment controls, but before proceeding with any other earth disturbance or Property is within the Metropolitan District, "IULCHING: Apply 1 1/2 to 2 tons per acre (70 to 40 lbs./1000 aq.ft.) of unrotted small grain straw immediately after seeding. Anchor conform to the channel cross-section. Secure with a row of staples SOILS LEGEND grading. Other building or grading inspection approvals may not be authorized 2. Public water and sewer will be used within this site. about 4" down slope from the trench. Spacing between staples is 6". mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sa.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sa.ft.) for anchoring. until this initial approval by the inspection agency is made, 3. The Contractor shall notify the following utility companies or agencies at least five(5) SOIL GROUF NAME / DESCRIPTION YMBOL 2. Staple the 4" overlap in the channel center using an 18" spacing Trenches for the construction of utilities is limited to three pipe lengths or that working days before starting work shown on these plans: which shall be back-filled and stabilized within one working day, whichever is shorter. SEQUENCE OF CONSTRUCTION CIC3 Chillum gravely loam, 5 to 10 percent slopes, severely eroded between staples Verizon REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR at slopes, moderately eroded CmB2 Chillum silt loam, I to 5 3. Before stapling the outer edges of the matting, make sure the AT#T Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify luka loam, local alluvium, to 5 percent slopes 1. Obtain grading permit. Notify Howard County Department of Inspections, License and Permits at (410) 313-1880 at least 24 hours before starting any work. matting is smooth and in firm contact with the soil. all quantities prior to the start of construction. State Highway Administration MIB2 Manor loam, 3 to 8 percent slopes, moderately eroded * To be determined by contractor, with pre-approval of the Sediment Control Inspector BGE(Contractor Services) 4. Staples shall be placed 2' apart with 4 rows for each strip, 2 Install Stabilized Constructon Entrance and Silt fence. (I week) with an approved and active grading permit outer rows, and 2 alternating rows down the center. BGE(Underground Damage Control) Begin house construction. Complete house construction, construct driveway, fine grade site and install DETAIL 22 - SILT FENCE SCHEDULE A Miss Utility Erosion Control Matting. (3 months)
6. During grading and after each rainfall, contractor will inspect and provide 5. Where one roll of matting ends and another begins, the end of Colonial Pipeline Company PERIMETER LANDSCAPE EDGE the top strip shall overlap the upper end of the lower strip by 4", necessary maintenance to the sediment control measures on this plan.
7. Following initial soil disturbance or any redisturbances, permanent or temporary Howard County, Dept. of Public Works, Bureau of Utilities 410.313.4900 shiplap fashion. Reinforce the overlap with a double row of staples ADJACENT TO ADJACENT TO CATEGORY spaced 6" apart in a staggered pattern on either side. Howard County Health Department PERIMETER PROPERTIES stabilization shall be completed within: ROADWAYS 7 calendar days for all perimeter sediment control structures, dikes, swales 4. The contractor shall notify Miss Utility at 1-800-257-7777 at least 48 hours prior to any 6. The discharge end of the matting liner should be similarly Perimeter/Frontage Designation and all slopes areater than 3:1. excavation work being done. o. 14 calendar days for all other disturbed areas. Landscape Type Linear Feet of Roadway secured with 2 double rows of staples. 8. Upon stabilization of all disturbed areas and with the permission of the 5. The contractor shall notify the Department of Public Works/Bureau of Engineering 497 235 476 Sediment Control Inspector, remove all sediment control measures and stabilize 236 Note: If flow will enter from the edge of the matting then the area Frontage/Perimeter
Credit for Existing Vegetation Construction Inspection Division at (410) 313-1880 at least five (5) working days prior any remaining disturbed area. (I week) effected by the flow must be keyed-in Yes Yes the start of work. (Yes, No, Linear Feet) MARYLAND DEPARTMENT OF ENVIRONMENT 6. The lots shown hereon comply with the minimum ownership, width and lot area as G - 22 - 2 WATER MANAGEMENT ADMINISTRATION Remaining Perimeter Length CONSERVATION SERVICE required by the Maryland State Department of the Environment. PARCEL Wall, Fence or (Yes, No, Linear Feet) 7. Boundary and two foot Topography on-site has been Field Run by FSH Associates in November 2004. 36" MINIMUM FENCE-PERSPECTIVE VIEW Remaining Perimeter Length 8. Contractor to confirm all dimensions, utilities and topography in the field. If any conflicts Number of Plants Required FENCE POST SECTION - MINIMUM 20" ABOVE GROUND L 1271 F 1:60 9 1:60 4 arise, contact Engineer before beginning any work. 1:60 8 Shade Trees loned: R UNDISTURBE Everareen Trees CmB2 9. Howard County Soil Map #33 Shrubs Number of Plants Provided Paving. 10. There are no floodplains, cemeteries or steep slopes on site. PERIMETER ONE Width - FENCE POST DRIVEN 11. Wetlands and stream evaluation conducted or November 2004 by Exploration Research, Inc. Shade Trees 0** 0** MINIMUM OF 8" VERTICALLY Varies N68'53'19"W 12. The project is in conformance with the latest Howard County Standards unless waivers have Evergreen Trees L. B. Eherry B. Cherry B. Cherry B.Cherr Other Trees (2:1 Substitution Transformer CROSS SECTION 13. The coordinates shown hereon are based upon the Howard County Geodetic Control which is Shrubs (10:1 Substitution) (Describe Plant Substitution based on the Maryland State Plane Coordinate system. Howard County monument numbers SECTION A Credits Below if needed) 47GA and 47GB were used for this project 14. In accordance with section 128 of the Howard County Zoning Regulations, bay windows, JOINING TWO ADJACENT SILT * No landscaping required since House fronts road (SMH) Ex. 20' Sewer/ and Utility Easement chimneys, or exterior stairways not more than 16 feet in width may project not more ** Existing trees on property are utilized to fulfill the landscape obligation. FENCE SECTIONS than 4 feet into any setbacks. Porches, or decks, open or enclosed may project not Construction Specifications Fence posts shall be a minimum of 36" long, driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood.
 Steel posts will be standard T or U section weighing not less than 1.00 pound per linear foot. See Detail This Sheet PARCEL more than 10 feet into the front or rear yard setback. BRL's shown taken from Howard County Zonina Regulation for the Zonina District. RALPH B. HOLST & WIFE 15. Driveway(s) shall be provided prior to issuance of a use and occupancy permit for any new L. 530 F. 428 S.Gurr 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: dwelling to insure safe access for fire and emergency vehicles per the following 2.625 AC. minimum requirements: Zoned: R-SC a) Width-12 feet (14' serving more than one residence). Tensile Strength b) Surface-6 inches of compacted crusher run base with 1 1/2" Min. tar and chip coating. c) Geometry-max. 14% grade, max. 10% grade change, and 45 foot turning radius. d) Structures (bridges/culverts)-capable of supporting 25 gross tons (H25-loading). 3. Where ends of geotextile fabric come together, e) Drainage elements-capable of safely passing 100 year flood with no more in one foot depth over driveway surface. f) Structure clearance-minimum 12 feet a) Maintenance-sufficient to insure all weather use. 16. This project is subject to the Amended Fifth Edition of the Subdivision and Land Devalopment 17. This plan has been prepared in accordance with the Provisions of Section 16.124 of the Howard County Code and Landscape Manual. 18. The lot is exempt from Forest Conservation requirements in accordance with section 16.1202(b) SITE ANALYSIS DATA CHART (2)(i) of the Howard County Code for single lot clearing less than 40,000 square feet with the filing of a Declaration of Intent. a. Total project area: 2.625 Acrest 19. The Subject Property is zoned R-SC per the 02/02/04 Comprehensive Zoning Plan. b. Area of plan submission: 2.625 icrest 20. This lot is exempt from Stormwater Management Requirements because the impervious area c. Limit of disturbed area: 0.35 Acrest is less than 5000 square feet, and the remaining grading will be converted to grass, which was d. Subject property zoned R-SC per 02/02/04 Comprehensive Zoning Plan. the condition that existed prior to developement 21. There are existing noise walls along Interstate Route 95 right-of-way, the 65 dBa Mitigated e. Proposed uses for site \$ structures: single family detached dwelling f. Floor space on each level of building(s) per use: See house templates this sheet Noise Line as projected by Maryland State Highway Administration does not impact this property. 22. No clearing, grading or construction is permitted within the wetland, stream or their buffers. g. Total number of units allowed: I à be Relocated h. Total number of units proposed: I PERIMETER THREE 23. All Sewer House Connections to be a minimum of 0.58% and a maximum of 5.0%. If no slope is . Private Use in Common shown, 2.0% may be assumed. i. Proposed building coverage of site: 0.06 acrest; 2.3% of gross lot area 20' R/W for Ingress # Egress j. Howard County file references: Contr. #44-3169; Contr. #20-3253 SHBY PROPER FLATA NOTE FirePlace -PLAN VIEW 14' Paving SCALE: 1"=50' Additional Paying to 29.0' —Achieve a Total Paying Width of 14' 1 Revise Driveway Location SITE DEVELOPMENT, LANDSCAPE, OWNER DEVELOPER'S BUILDER'S CERTIFICATE RALPH B. HOLST & WIFE SEDIMENT AND EROSION CONTROL PLAN Paving Section 9131 Riverhill Road I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WIDENING DETAIL Laurel, MD 20723 WILL BE DONE ACCORDING TO THE PLAN, SECTION 16,124 OF THE HOLST PROPERTY HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF ADDRESS CHART DEVELOPER LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) PARCEL 405 YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE Street MICHAEL MARCELLINO DEPARTMENT OF PLANNING AND ZONING SINGLE FAMILY DETATCHED DWELLING 9141 Riverhill Road 9131 Riverhill Road Laurel, MD 20723 (240) 350.6465 HOUSE TEMPLATE TAX MAP 50 GRID 6TH ELECTION DISTRICT SCALE: 1"=20' SIGNATURE OF DEVELOPER ENGINEERS CERTIFICATE DEVELOPER'S CERTIFICATE APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING | REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS T INFORMATION CHART CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION Section/Area NTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN FSH Associates BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS HOLS" PROPERTY N/A AND THAT IT WAS PREFARED IN ACCORDANCE WITH THE 405 PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT Engineers Planners Surveyors REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL Tax Map No. |Elect. District|Census Tract 8318 Forrest Street Eilicott City, MD 21043 OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO Tel:410-750-2251 Fax: 410-750-7350 AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL 606903 530/4.0 22418 -mail: .nfo@FSHA.biz CONSERVATION DISTRICT. Muhal A Traullino Sewer Code 'Nater Code 7450000

HOWARD COUNTY, MARYLAND

DATE

PARCEL 405

DESIGN BY: PS

DRAWN BY: ___AY_

SCALE: As Shown

DATE: <u>Jur. 20</u> 2005

W.O. No.: 3286

SHEET No.: _ 1_OF _

SCALE:1=20001

1800.743.0033/410.224.9210

1.800.252.1133

410.531.5533

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410.787.9068

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1.800.257.7777