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Date

Signature of Developer/Owner/Builder

DATE

JOHN K STEWART

10559 RIVULET ROW

COLUMBIA, MARYLAND 21044

301-688-2857

WATER CODE

66-W

SEWER CODE

166-5

DATE: MAY, 2004

SHEET 1 OF 1

SCALE: 1" = 30'

SEDIMENT CONTROL NOTES TEMPORARY SEEDING NOTES STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION PERMANENT SEEDING NOTES SEQUENCE OF CONSTRUCTION APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER 15 NEEDED. DEFINITION Using vegetation as cover for barren soil to protect 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 ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS: 1. OBTAIN GRADING PERMIT. 1. A Minimum Of 48 Hours Notice Must Be Given To The Howard County Department Of Inspections, Licenses And Permits, Sediment Control Division Prior To The Start Of Any 2. INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN. 1 DAY SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. 3. CLEAR AND GRUB TO LIMITS OF DISTURBANCE AND MASS GRADE TO SUN-BASE. 1 DAY SEEDBED PREPARATION: 2. All Vegetative and Structural Practices are To Be Installed According To The Provisions Of This Plan and are To Be In According To The Provisions Of This Plan LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY 4. INSTALL TEMPORARY SEEDING. 1 DAY run-off to downstream areas, and improving wildlife habitat and visual resources. SOIL AMENDMENTS: 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 APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/ 1,000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (14 LBS./1,000 SQ.FT.) BEFORE SEEDING HARROW OR DISC. INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 38-0-0 UREAFORM FERTILIZER (9 LBS./1,000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LBS./ 1,000 SQ.FT.) OF 10-20-20 FERTILIZER. 5. CONSTRUCT BUILDINGS. 2 MONTHS And Are To Be In Conformance With The Most Current Maryland Standards And 6. FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE. 1 DAY 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. Specifications For Soil Erosion And Sediment Control And Revisions Thereto. 7. REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED 3. Following Initial Soil Disturbance Or Re-Disturbance, Permanent Or Temporary APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./ AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR. 2 DAYS Stabilization Shall Be Completed Within: A) 7 Calendar Days For All Perimeter Sediment Control Structures, Dikes, Perimeter Slopes And All Slopes Steeper Than 3:1, B) 14 Days EFFECTS ON WATER QUALITY AND QUANTITY As To All Other Disturbed Or Graded Areas On The Project Site. As To All Other Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST Disturbed Or Graded Areas On The Project Site. 15 THROUGH NOVEMBER 15, SEED WITH 17 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./ACRE OF WEEPING LOVEGRASS (.07 LBS./1,000 SQ.FT. FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL 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. FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1,000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (1.4 LBS./1,000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1,000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28. PROJECT SITE BY: OPTION (1) - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING: OPTION (2) - USE SOO: OPTION (3) -4. All Sediment Traps/Basins Shown Must Be Fenced And Warning Signs Posted Around 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. Their Perimeter in Accordance With Vol. 1, Chapter 12, Of The Howard County Design Manual, Storm Drainage. Chapter 12. Of The Howard County Design Manual, Storm 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. anchored straw mulch and seed as soon as possible in the SPRING, OR USE SOD. 5. All Disturbed Areas Must Be Stabilized Within The Time Period Specified Above In SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS Accordance With The 1994 Maryland Standards And Specifications for Soil Erosion And APPLY 1 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GAL.1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR Sediment Control For Permanent Seeding (Sec. 51), Sod (Sec. 54), Temporary Seeding (Sec. 50), Permanent Seeding (Sec. 51), Sod (Sec. 54), Temporary Seeding (Sec. 50), And i. Install erosion and sediment control structures (either temporary of permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins. ii. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually POSSIBLE IN THE SPRING OPTION (2) - USE SOO, OPTION (3) - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD Mulching (Sec. 52). Temporary Stabilization With Mulch Alone Can Only Be Done When 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) Recommended Seeding Dates Do Not Allow For Proper Germination And Establishment Of 6. All Sediment Control Structures Are To Remain In Place And Are To Be Maintained In MULCHING: 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 REFER TO THE 1988 MARYLAND STANDARDS AND SPECIFICATION FOR Operative Condition Until Permission For Their Removal Has Been Obtained From The APPLY 1 TO 2 TONS PER ACRE (10 TO 90 LBS./1,000 SQ.FT.) SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NO COVERED. OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GAL./1,000 SQ.FT.) OF EMULSIFIED Howard County Sediment Control Inspector. University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering 7. Site Analysis: Total Area Of Site purposes may also be used for chemical analyses. ii. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by 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 ASPHALT ON FLAT ACRES. ON SLOPES & FEET OR HIGHER USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING. Area Disturbed 0.115 Acres Area To Be Roofed Or Paved 0.092 Acres MAINTENANCE: 0.023 Acres the applicable state fertilizer laws and shall bear the name, trade name or trademark and warrantee Area To Be Vegetatively Stabilized INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS. 250 Cu.Yds. of the producer. iii. Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contains 250 Cu.Yds. BRYANT HOODS * FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNVETCH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS/ACRE AS THE SEEDING REQUIRMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30. 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 Off-Site Waste/Borrow Area Location 8. Any Sediment Control Practice Which is Disturbed by Grading Activity For Placement Of mesh sieve. Incorporate lime and fertilizer into the top 3-5° of soil by discing or other suitable means. Utilities Must Be Repaired On The Same Day Of Disturbance. 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 9. Additional Sediment Controls Must Be Provided, If Deemed Necessary By The Howard County Sediment Control Inspector. GENERAL NOTES: 10. On All Sites With Disturbed Areas In Excess Ot 2 Acres, Approval Of The Inspection Agency Shall Be Requested Upon Completion Of Installation Of Perimeter Erosion And . SUBJECT PROPERTY ZONED NTSFMD PER 10/18/93 COMPREHENSIVE ZONING PLAN. Sediment Controls, But Before Proceeding With Any Other Earth Approvals May Not Be than 3:1) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope. b. Apply fertilizer and lime as prescribed on the plans. c. In corporate lime and fertilizer into the top 3-5" of soil by discing or other suitable means. ii. Permanent Seeding . TOTAL AREA OF SITE: 0.306 ACRES Authorized Until This Initial Approval By The Inspection Agency Is Made. 3. TOTAL NUMBER OF LOTS SUBMITTED: I SINGLE FAMILY DETACHED. II. Trenches For The Construction Of Utilities Is Limited To Three Pipe Lengths Or That 4. MAXIMUM LOT COVERAGE PERMITTED IS 30%. Which Shall Be Back-Filled And Stabilized Within One Working Day, Whichever Is Shorter. 5. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT alien seeding. Minimum soil conditions required for permanent vegetative establishment: L. Soil pit shall be between 6.0 and 7.0. Michigania Michigan M (410) 313-1880 AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK. Soluble sails shall be less than 500 parts per million (ppm). The soil shall contain less than 40% clay, but enough time grained 6. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST -EARTH 12" MIN. 48 HOURS PRIOR TO ANY EXCAVATION WORK. FILTER WOVEN WIRE FENCE material 030% silt plus clay) to provide the capacity to hold a (OPTIONAL) (MIN. 14 1/2" GUAGE, MAX. 6" MESH SPACING) 7. THIS PLAN IS SUBJECT TO HOWARD COUNTY REFERANCE NUMBERS F-66-43. CLOTH moderate amount of moisture. An exception is it lovegrass or serecia lespedezas is to be planted, then a sandy soil 130% silt PROFILE EXISTING W&S CONT. *166-W&S. & FDP-TWO-A-VIII. ---- 36" MIN. FENCE plus clay) would be acceptable. Soil shall contain 1.5% minimum organic matter by weight. Soil must contain sufficient pere 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. N86°25'27"W 52.11' GROUND B. BOUNDARY AND PERFORMED BY: FISHER, COLLINS AND CARTER INC. ON OR ABOUT MARCH, 2004. 16" INTO GROUND 9. TOPOGRAPHIC SURVEY PERFORMED BY: FISHER, COLLINS & CARTER INC. ON OR ABOUT MARCH, 2004. 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 crossion check slots to prevent topsoil ~HEIGHT OF FILTER 10. HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON MD. COORDINATE SYSTEM WAL C. & JOHNER R NAD 27 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS: 10. WIN' ×349.50 \ STA 2838003 N 508915.632 E 824630.474 EL =367.20 to the surface area and to create horizontal erosion check slots to prevent topsoil from SCHOOLS, STA 2838002 N 509424,956 E 825625,556 EL=434,53 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 discing 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 IL ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED ZONED! NISFLD AT THE DEVELOPER'S EXPENSE. BASEMENT WILL' SEWER BY GRAW. PLAN VIEW 12. THIS PLAN IS FOR HOUSE SITING AND LOT GRADING ONLY. IMPROVEMENTS SHOWN WITHIN THE RIGHT-OF-WAYS OF THIS S.D.P. ARE NOT USED FOR CONSTRUCTION. 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 contour of the slope. The top 1-3" of soil should be loose and friable. Seedbed loosening may not be necessary on CONSTRUCTION SPECIFICATIONS FOR CONSTRUCTION SEE APPROVED ROAD CONSTRUCTION PLANS AND/OR APPROVED PERSPECTIVE VIEW STANDARD SYMBOL WATER AND SEWER PLANS CONTRACT NO. 166-W&S. I. STONE SIZE - USE 2° STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. (TO BE RAZED) ---- 5 ----- 5---- 13. CONTRACTOR WILL CHECK SEWER HOUSE CONNECTION ELEVATION AT EASEMENT LINE WOVEN WIRE FENCE 2. LENGTH - A5 REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE PRIOR TO CONSTRUCTION. LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY). EXISTING HOUSE D. Seed Specifications 14. STORMWATER MANAGEMENT IS NOT REQUIRED AS THE AREA OR DISTURBANCE IS UNDER 6" MESH SPACING) i. 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 nitrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used when than the date indicated on the configure. Add fresh 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. 3. THICKNESS - NOT LESS THE SIX (6) INCHES. WITH FILTER CLOTH 5,000 SQUARE FEET. 4. WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT 15. FOR DRIVEWAY ENTRANCE DETAIL REFER TO HOWARD COUNTY DESIGN MANUAL IV POINTS WHERE INGRESS OR EGRESS OCCURS. FLOW ____ DETAIL R.6.03. 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. 16. THIS PLAN CONFORMS TO THE AMENDED 5TH EDITION OF THE SUBDIVISION REGULATIONS FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT. embed filter 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION 17. THIS PLAN EXEMPT FROM THE FOREST CONSERVATION REQUIREMENT PER SECTION CLOTH MIN. 8° 16.1202(bXIXIV)OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL. into grouno — A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED. FOR A PLANNED UNIT DEVELOPMENT. Methods of Seeding i. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeded, or a cultipacker seeder. 18. THIS PLAN IS EXEMPT FROM LANDSCAPE REQUIREMENTS DUE TO PRELIMINARY PLAN 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL SECTION PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS APPROVAL PRIOR TO JANUARY, 1993. or of seeded, or a cumpacker seeder. 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 MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND CONSTRUCTION NOTES FOR FABRICATED SILT FENCE AND REPAIR AND /OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY POSTS: STEEL EITHER T OR U MUST BE REMOVED IMMEDIATELY. TYPE OR 2" HARDWOOD TO FENCE POSTS WITH WIRE TIES OF STAPLES. time. Do not use burnt or hydrated lime when hydroseeding. Seed and fertilizer shall be mixed on site and seeding shall be done immediately and 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO FENCE: WOVEN WIRE, 14. GA. 2. FILTER CLOTH TO BE FASTENED SECURELY TO 3"W CONT. NO. 166-W & PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA without interruption. ii. Dry Seeding: This includes use of conventional drop or broadcast spreaders. WOVEN WIRE FENCE WITH TIES SPACED EVERY 6" MAX. MESH OPENING STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING ii. Dry seeding: This includes use of conventional grop or broadcast spreaders. a. Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the 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. b. 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. a. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seeded must be firm after planting. b. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction. 24" AT TOP AND MID SECTION. 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN FILTER CLOTH: FILTER X, MIRAFI 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN. $Q_{\mathbf{x}_{\mathbf{x}_{\mathbf{x}}}}$ EACH OTHER THEY SHALL BE OVERLAPPED BY 100X, STABILINKA TI4 ON 8°5 CONT. NO. 166-5 OR APPROVED EQUAL SIX INCHES AND FOLDED. STABILIZED CONSTRUCTION ENTRANCE - 2 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED PREFABRICATED UNIT: GEOFAB. ENVIROFENCE, OR APPROVED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP NOT TO SCALE EQUAL. **EXISTING** RIVULET Apply half the seeding rate in each direction. Mulch Specifications (in order of preference) i. Straw shall consist of thoroughly threshed wheat, rie or oat straw, reasonable bright in color, and shall not be musty, molar, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law. ii. Wood Cellulose Fiber Mulch (WCFM) a. WCFM shall consist of specially prepared wood cellulose processed into a uniform House SILT FENCE PUBLIC ROAD ANCHOR POST SHOULD BE NOT TO SCALE Note: Grovity sewer, first floor only. Basement MINIMUM 2" STEEL "U" CHANNEL 50' R/W USE 2" x 4" OR 2" x 2" TIMBER 6" IN LENGTH sewer service to be provided by private LUMBER FOR 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 surry. WCFM, including dye, shall contain no germination or growth imbiting factors. WCFM materials shall be manufactured and processed in such a manner that the HIGHLY VISIABLE FLAGGING -CROSS BACKING on-site pump. N506807 MAXIMUM & FEET 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 noisture absorption and percolation properties and shall cover and nold grass seed in contact with the soil without inhibiting the growth of the grass seedings. WCM material shall contain no elements or compounds at concentration levels that will be phytol-toxic. will be phytol-toxic. f. WCFM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., phyrange of 4.0 to 8.5, ash content of 16% maximum and water holding capacity of 90% infinimum. Note: Only sterile straw mulch should be used in areas where one species of grass is desired. Mulching Seeded Areas - Mulch shall be applied to all seeded areas immediately after seeding. It 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. accordance with these specifications. ii. When straw much is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Much shall be applied to a uniform loose depth of between 1" and 2". Much applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a much anchoring tool is to be used, the rate should be increased to 2.5 tons/acre. iii. Wood cellulose fiber used as a much 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 Much (Much Anchoring): Much 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: preference, depending upon size of 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 two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should 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 mixed with water and the mixture shall confain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water. preference), depending upon size of area and erosion hazard: 12'-14' 5YMBOL ----- EXISTING CONTOUR 2' INTERVAL ANCHOR POST MUST BE INSTALLED USE 3' WIRE TO A DEPTH OF NO LESS THAN 1/3 "U" TO SECURE 3990.4 9q.ft. GAR. of water. iii. Application of liquid binders should be heavier at the edges where wind catches much, such as in valleys and crest of banks. The remainder of area should be appear uniform after binder application. Synthetic binders - such as Acrylic DLR (Agro-Tack), DCA-70 Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used at rates recommended by the FENCE BOTTOM OF THE TOTAL HEIGHT OF POST No Deck Proposed " COATING NOTES: +362.2 SPOT ELEVATION 1. FOREST PROTECTION DEVICE ONLY. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS. iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer's recom-. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED COMPĂCTED mendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long. CRUSHER RUN BASE PRIOR TO INSTALLING DEVICE. 4. ROOT DAMAGE SHOULD BE AVOIDED. 5. PROTECTIVE SIGNAGE MAY ALSO BE USED. -SF-SF-SILT FENCE 6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION. STEWART-COMFRY RESIDENCE -TP-TP-TREE PROTECTION BLAZE ORANGE PLASTIC MESH 5CALE: 1" = 30" COMMON DRIVEWAY DETAIL TREE PROTECTION DETAIL $\frac{13,326}{3} = 3,998.4 \text{ SQ. FT.}$ Mox, lot coverage NOT TO SCALE NOT TO SCALE allowed PPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING ENGINEER'S CERTIFICATE Reviewed for HOWARD SCD and meets Technical Requirements "I certify that this plan for erosion and sediment control represents a practical and workable 8/27/04 Chief, Division of Land Development plan based on my personal knowledge of the site conditions and that it was prepared in A.-Natural Resources⊿ Date accordance with the requirements of the Howard Soil Conservation District."

5ITE & SEDIMENT/EROSION CONTROL PLAN SINGLE FAMILY DETACHED gief, Development Engineering Division 6.191.09 COLUMBIA park S. L. Well FISHER, COLLINS & CARTER, INC. EARL D. COLLINS Slightfure of Engineer VIL ENGINEERING CONSULTANTS & LAND SURVEYORS irector - Department of Planning and Zonina WILDE LAKE SUBDIVISION DEVELOPER'S CERTIFICATE ROJECT SECTION/AREA WAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIK "I/We certify that all development and construction will be done according to this plan, **SECTION** for sediment and erosion control and that any responsible personnel involved in the VILLAGE OF WILDE LAKE 178 (4(0) 461 - 2855 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 BLOCK NO. | ZONE TAX/ZONE CENSUS TR ELEC. DIST. beginning the project. I also authorize periodic on-site inspection by the Howard Soil DEVELOPER/OWNER/BUILDER TAX MAP NO.: 30 PARCEL NO.: 241 GRID NO.: 19 Conservation District." PLAT BOOK 1 6054.01 NTSFMD FIFTH FOLIO 48 JOHN F. STEWART FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND Ja J. Dansel 10559 RIVULET ROW 6114104 SCALE: 1" = 30' DATE: MAY, 2004 WATER CODE SEWER CODE COLUMBIA, MARYLAND 21044 Revise grading per existing cond. Signature of Developer/Owner/Builder 6.22.07 301-600-2057 166-W 166-5 SHEET 1 OF 1 JOHN I STEWART

SDP-04-158

#*7638003*

VICINITY MAP

ADDRESS CHART

LEGEND

--- EXISTING CONTOUR 10' INTERVAL

FIRST FLOOR ELEVATION

BASEMENT ELEVATION

LIMIT OF DISTURBANCE

EXISTING TREES (TO REMAIN)

-- PROPOSED CONTOUR

PROPOSED WALKOUT

LOT NUMBER

STREET ADDRESS

10559 RIVULET ROW

DESCRIPTION

#2838002