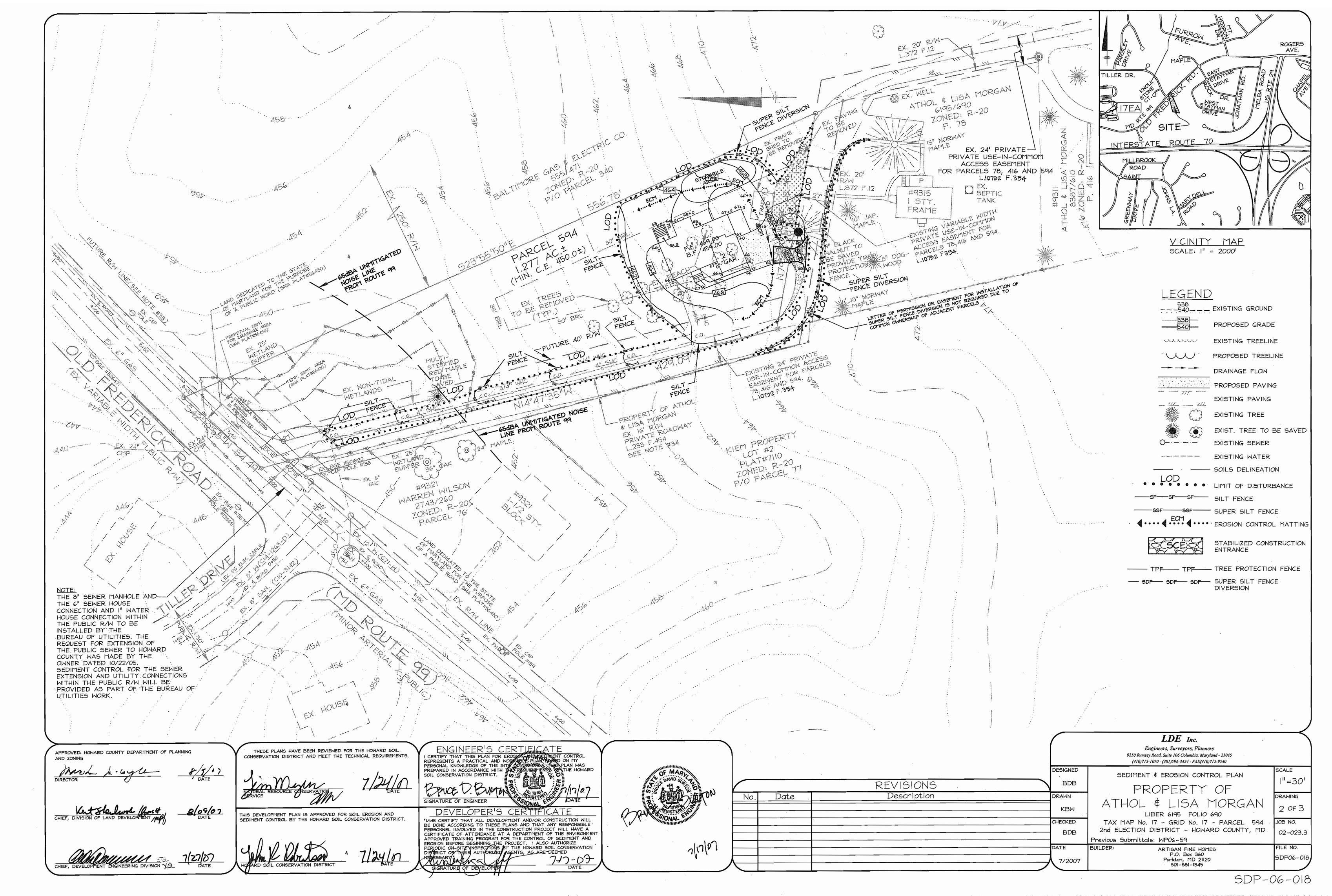


SDP-06-018



F.NO2-023-3\dwg\02-023-3 SED & EC.dwg, SED&EC, 7/16/2007

- 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 construction, (313-1855).
- 2. All vegetative and structural 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 EROSION AND SEDIMENT CONTROL", and revisions thereto.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days 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 7, 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 (Section G) for permanent seeding, sod, temporary seeding, and mulching. 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

5:	•		
	Total Area of Site	1.277	Acres
	Area Disturbed	0.47	Acres
	Area to be roofed or paved	0.08	Acres
	Area to be vegetatively stabilized	0.39	Acres
	Total Cut	315	Cu. Yds.
	Total Fill	315	Çu. Yds.
	Offsite waste area location	N/A	

- 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 control 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 approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which can be back filled and stabilized within one working day, whichever is shorter.

#### HOWARD SOIL CONSERVATION DISTRICT 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, disking, or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following 1) PREFERRED -- Apply 2 tons per acres dolomitic limestone (92 lbs/1000sq. ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform

fertilizer (9 lbs/1000sq. ft.) 2) ACCEPTABLE -- Apply 2 tons per acres dolomitic limestone (92 lbs/1000sq. ft.) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil.

SEEDING -- For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000sq. ft.) of Kentucky 31 Tall Fescue. For the period May i thru July 31, seed with 60 lbs per acre (1.4 lbs/1000sa.ft.) of Kentucky 31 Tall Fescue and 2 lbs. per acre (.05 lbs/1000sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) - 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) - Use sod. Option (3) - Seed with 60 lbs. per acre Kentucky 31 Tali Fescue and muich 2 tons / acre well anchored straw.

MULCHING -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. 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/1000sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000sq. ft.) for anchoring.

MAINTENANCE -- Inspect all seeding areas and make needed repairs, replacements and

## HOWARD SOIL CONSERVATION DISTRICT TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-termvegetative cover

SEEDBED PREPARATION: -- Loosen upper three inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: -- Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000sq. ft.).

SEEDING -- For periods March 1 thru April 30, and from August 15 thru October 15 seed with 2-12 bushels per acre of annual rye (3.2 lbs/1000sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs/1000sa.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch 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/1000sq. ft.) of unrotted weed free small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000sq. ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.

Category

Perimeter

Credit for Existing Vegetation\*

Credit For Wall, Fence or Berm

Linear Feet of Roadway

Frontage / Perimeter

(Yes, No, Linear Feet)

(Yes, No, Linear Feet)

Shade Trees

Number of Plants Required

Number of Plants Provided

Evergreen Trees

Shade Trees

Landscape Type

SCHEDULE A

PERIMETER LANDSCAPE EDGE

P-2 P-3

397 L.

Adjacent to

Perimeter Properties

525 L.F.

Α

176 L.F.

Yes Shade

#### 21.0 STANDARD 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

I. 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 Ilmestone 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 Specifications

1. 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.

#### II. Topsoil Specifications - Soil to be used as topsoil must meet the following:

- i. Topsoil shall be a loam, sandy loam, clay loam, sllt 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 clinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1-1/2" in diameter. ii. Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass.
- nutsedge, poison by, 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.

### III. For sites having 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.

### IV. 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.
- 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.

- 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 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 corrected in order to prevent the formation of depressions or
- iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen cr muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and

VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fe composted sludge and amendments may be applied as specified below:

- i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas 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 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements
- c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet,
- ii. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 equare feet, and 1/3 the normal lime application rate.

Total

Adjacent to Roadways

P-4

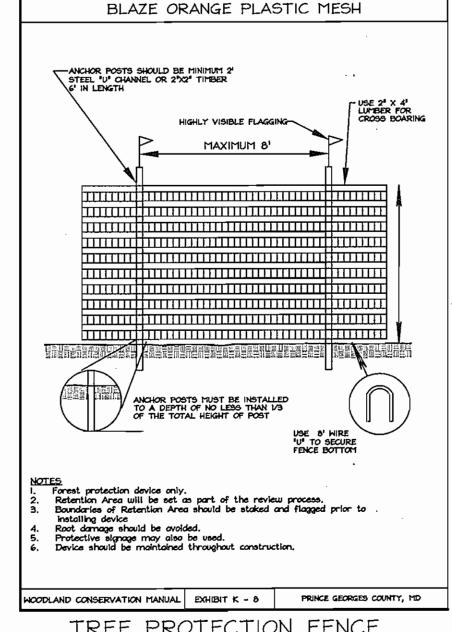
В

88 L.F.

N/A

N/A

References: Guideline Specifications, Soil Preparation and Sodding. MD-YA, Pub.#1, Cooperative Extension Service, University of Maryland and Yirginia Polytechnic Institutes. Revised 1973.



LANDSCAPE NOTES:

repaired or replaced.

nursery stock.

gammannon-same-itrag

SIGN MOUNTING BRACKET

SIGN MOUNTED ON A

WOOD POST

4"x4" PRESSURE TREATED

AND STRAPS - SHANNON - BAUM NO. 730 6 3/4" WING BRACKET OR EQUAL

and Howard County Landscape Manual.

are made to applicable plans and certificates.

QUANTITY

established by the Howard County Landscape Manual.

1. This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code

3. Financial Surety for the required landscaping will be posted with the builder's grading permit in the amount

plant materials, berms, fences and walls. All plant materials shal be maintained in good growing condition,

All other required landscaping shall be permanently maintained in good condition, and when necessary,

6. At the time of installment, all shrubs and other plantings herewith listed and approved for this site shall be

of the proper height requirements in accordance with the Howard County Landscape Manual. In addition, no

substitutions or relocation of required plantings may be made without prior review and approval from the

Department of Planning and Zoning. Any deviation from this approved Landscape Plan may result in denial

or delay in the release of landscape surety until such time as all required materials are planted and/or revisions

PLANT LIST CHART

BOTANICAL NAME

Acer rubrum

October Glory

Quercus rubra

Platanusx acerifolia

'Bloodgood

Pinus strobus

SIZE

2 1/2"-3"

Cal.

2 1/2"-3"

Cal.

2 1/2"-3"

Cal.

6'-8' Ht.

REMARKS

B # B

B # B

B # B

and when necessary, replaced with new materials to ensure continued compliance with applicable regulations.

4. The Owner, Tenant and/or their agents shall be responsible for maintenance of the required landscaping,

5. All plant materials shall conform to the American Associated Nurserymen's publication, American

COMMON NAME

October Glory

Red Maple

Red Oak

Bloodgood

London Plane

Eastern

White Pine

2. The Owner/Developer is responsible for planting of all material required to meet the standards

TREE PROTECTION FENCE

SIGN OPTION NUMBER 1 AND NUMBER 2

SIGN DESIGN AND INSTITUTION

3. The sign shall have a green background with 3" high white reflective numbers and arrow with a white reflective

size will be enlarged to accommodate the necessary lettering but remain proportional to the above design limits.

6. Address number identification signs are to be provided under the tenants of the Homeowner's Association

Incorporation or a Property Management Company for installation and maintenance in accordance with the

Code - Public Signs. Maintenance/repair and replacement of the address number directional signs will be the

7. Compliance regarding the installation of the new address number directional signs will be enforced by the

Department of Inspections, Licenses and Permits at the time of final approval for issuance of the Use and Occupancy

Department of Planning and Zoning Address Numbering System and per Section 3.503(a) of the Howard County

5. The sign will be installed within the common driveway easement area as noted on the final plat.

responsibility of the Homeowner's Association or a Property Management Company.

4. Where a private road name is in use or part of a private Homeowner's Articles of Incorporation agreement the sign

DETAIL

24 ILA4E

11 4 15.46 F

2. The sign material shall be .080 gauge thickness anodized aluminum.

MOUNTING CAP

OR RING BRACKET

CAP OR NO. 702 RING

BRACKET OR EQUAL

SHANNON -BAUM NO. 707

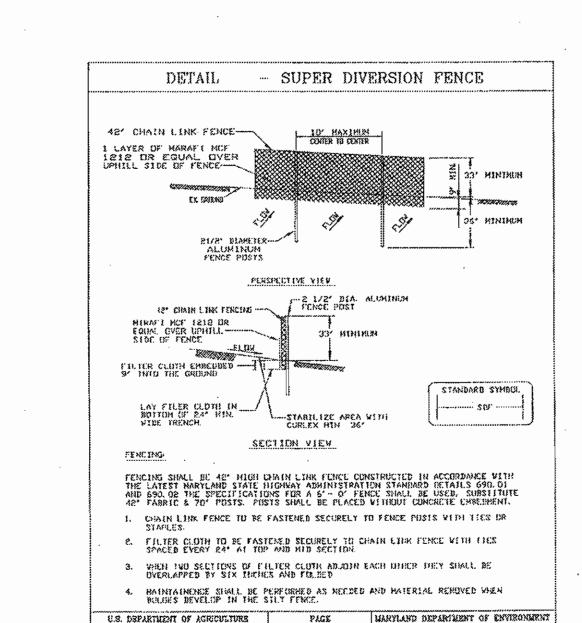
SIGN MOUNTED ON A

2" DIA. GALVANIZED

SIGN SPECIFICATIONS

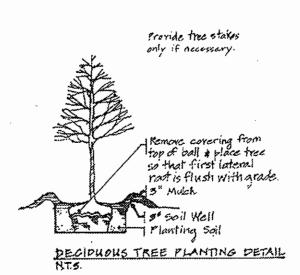
1. The sign size shall be 12" x 18".

permits.



# TREE PLANTING DETAILS

WATER MANAGEMENT ADMINISTRATION



provids tree stakes only burlap from tree ball. of Place tree in hole so that first root (lateral is flush with grade. -3" soil Well Planting Soil evergreen tree Planting Detail

REVISIONS

Description

EMBED GEOTEXTILE CLASS F -FENCE POST DRIVE MINIMUM OF 16<sup>4</sup> INT CROSS SECTION JOINING TWO ADJACENT SILT FENCE SECTIONS 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. 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: Where ends of geotextile fabric come together, they shall be overlapped, 4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height U.9. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE  $E\sim 16\sim 3$  WATER MANAGEMENT ADMINISTRATION

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

PROFILE

PLAN VIEW

1. Length - minimum of 50' (\*30' for single residence lot).

10' MAXIMUM CENTER TO

PERSPECTIVE VIEW

onstruction Specification

2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.

Geotextile fabric (filter cloth) shall be placed over the obsting 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 recessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

5. DEPARTMENT OF AGRICULTURE PAGE HARYLAND DEPARTMENT OF ENVIRONMENTS.

60IL CONSERVATION SERVICE F - 17 - 5 HATER HANAGERINT ADMINISTRATION

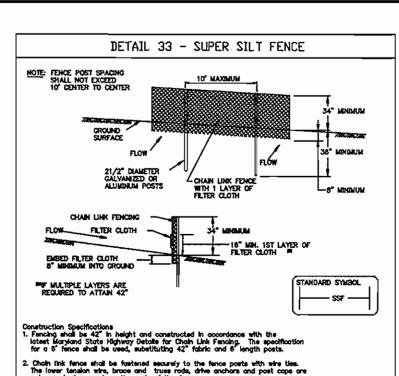
DETAIL 22- SILT FENCE

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

MINIMUM 6° OF 2°-3° AGGREGAT OVER LENGTH AND HIDTH OF STRUCTURE

OR BETTER :

##SCH



Chain link fence shall be fastened securely to the fence poets with wire ties. The lower tension wire, brace and trues rods, drive anchors and poet cops are not required except on the ends of the fence. 3. Fitter cloth shall be fostened 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 ground. When two sections of fitter cloth adjoin each other, they shall be overlapped by 6" and folded.

 Mointenance shall be performed as needed and sit buildupe removed when "builgee" develop in the sit fance, or when % of fence height sit reaches 50 Fitter cloth shall be fostened securely to each fence post with wire ties or stopies at top and mid section and shall meet the following requirements for Contextile Closs F;

U.S. DEPARTMENT OF AGRICULTURE PAGE, MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE H - 26 - 3 WATER MANAGEMENT ADMINISTRATION SUPER SILT FENCE

Design Criteria Silt Fence Length Slope Length Stope Slope (maximum) Steepness (maximum) 0 - 10% Unlimited 10 - 20% 200 feet 1,500 feet 20 - 33% 51-31 1,000 feet 500 feet 2:1+ 50 feet 250 feet

# SEQUENCE OF CONSTRUCTION:

Total Time:

DESIGNED

RAWN

KBW

CHECKED

7/2007

BDB

1. Obtain Grading Permit 1 Day 2. Notify the Howard County Dept. of Inspections, Licenses and Permits at least 24 hours prior to starting work. 1 Day 3. Construct Stabilized Construction Entrance. 1 Day 4. Install Super Silt Fence as shown hereon. 3 Days 5. Clear \$ grub site to subgrade. 5 Days 6. Begin excavation for house foundation and begin house construction. Install water and sewer house connections. 60 Days 7. The Contractor shall inspect and provide necessary maintenance on the sediment and erosion control structures shown hereon after each rainfall and on a daily basis. Daily 8. Remove sediment from roadways and dress Stabilized Construction Entrance as required. Maintenance 9. Fine grade and stabilize with permanent seeding mixture and straw mulch. Install individual driveway and house walk. 5 Days 10. With permission from the Sediment Control Inspector, remove all sediment and erosion control measures and stabilize any remaining disturbed areas with permanent seeding mixture and straw mulch. 5 Days

U.S. DEPARTMENT OF AGRICULTURE

LDE Inc. Engineers, Surveyors, Planners 9250 Rumsey Road, Suite 106 Columbia, Maryland - 21045 (410)715-1070 - (301)596-3424 - FAX(410)715-9540 SEDIMENT CONTROL, CONSTRUCTION # LANDSCAPÉ DETAILS

SCALE As Showr DRAWING LISA MORGAN 3 of 3 LIBER 6195 FOLIO 690 TAX MAP No. 17 - GRID No. 17 - PARCEL 594 JOB NO. 2nd ELECTION DISTRICT - HOWARD COUNTY, MD 02-023.3 Previous Submittals: WP06-59 BUILDER: FILE NO. ARTISAN FINE HOMES P.O. Box 360 SDP06-018 Parkton, MD 21120 301-881-1345

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING

and a Multi-Stemmed Red Maple along P-3.

AND ZONING

\* Credit is being taken for a 19" Black Walnut along P-2

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.

@2:1=3 Shade

17 Total

4 Shade

Evergreen

HIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

I CERTIFY THAT THIS PLAN FOR EROSION WILL SEPTEMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONTROL BY THE HOWARD PREPARED IN ACCORDANCE WITH THE PROVINCEMENTS OF THE HOWARD PREPARED IN ACCORDANCE WITH THE PROVINCEMENTS OF THE HOWARD PREPARED IN ACCORDANCE WITH THE PROVINCEMENTS OF THE HOWARD PREPARED IN ACCORDANCE WITH THE PROVINCEMENTS OF THE HOWARD PREPARED IN ACCORDANCE WITH THE PROVINCEMENTS OF THE HOWARD PREPARED IN ACCORDANCE WITH THE PROVINCEMENTS OF THE HOWARD PREPARED IN ACCORDANCE WITH THE PROVINCEMENTS OF T I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL

BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE
PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION
DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED

Date

81 Days