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 loosened.

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/100 sq.ft.) and 600 lbs per acre 10–10–10 fertilizer (14 lbs./1000 sq.ft.) before seeding Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30–0–0 ureaform fertilizer (9 lbs/1000 sq.ft.)
2) Acceptable–Apply 2 tons per acre dolomatic limestone (92 lbs/1000 sq.ft.) and apply 1000 lbs. per acre 10–10–10– fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc 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/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 (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons 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 straw.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. 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.

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

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

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

SEEDING: For periods March 1 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 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq.ft.). For the period November 1 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./1000 sq.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.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT AND EROSION CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits 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 1983 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within:
   a) 7 calendar days for all perimeter sediment control stuctures, 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 perimeters 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51), sod (Sec. 54), temporary seedings (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:	0.61 Ac.
Area Disturbed:	0.42 Ac.
Area to be roofed or paved:	0.11 Ac.
Area to be vegetatively stabilized:	0.31 Ac.
Total Cut:	560 c.y.
Total Fill:	1160 c.y.
Offsite Waste/Borrow Area Location:	*

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment control must be provided, if deemed necessary by the Howard County DPW 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.
11. The total amount of silt fence = 185 l.f.

* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.

CONSTRUCTION SEQUENCE:

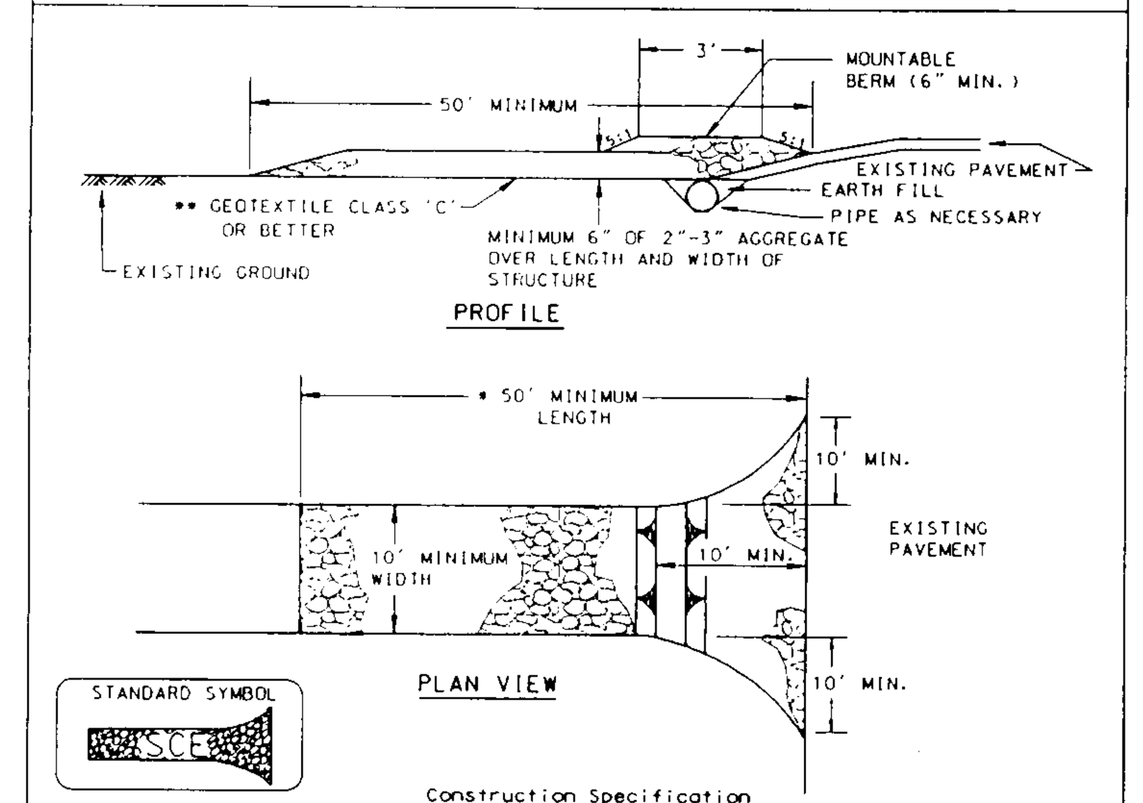
	NO. OF DAYS
1. Obtain grading permit.	7
2. Install tree protection fence.	N/A
3. Install sediment and erosion control devices and stabilize.	14
4. Excavate for foundations, rough grade and temporarily stabilize.	30
5. Construct structures, sidewalks and driveways.	60
6. Final grade and stabilize in accordance with Stds. and Specs.	14
7. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	7

* Delay construction of houses on lots: N/A
See single lot sediment control detail, this sheet.

GENERAL NOTES:

1. Subject property is zoned: R-12
2. The total area included in this submission is : 26,501 ☐ 0.6084 Ac.
3. The total number of lots included in this submission is: 2
4. Improvement to property : Single family detached
5. Department of Planning and Zoning reference file numbers are: P-94-10, SDP 95-19, G09-SB & 178W
6. Utilities shown as existing are taken from approved Water and Sewer plan Contract # , approved 609-S #178-W and actual field survey
7. Any damage to county owned rights–of–way shall be corrected at the developer's expense.
8. All roadways are public and existing.
9. The existing topography was field run by Clark, Finefrock & Sackett, Inc.
10. The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System – Howard County Control Stations 42E3 and 42E4 (NAD83)
11. The contractor shall notify the Department of Public Works/Division of Construction Inspection at (410) 313–1880 at least twenty–four (24) hours prior to the start of work.
12. The contractor shall notify "Miss Utility" at 1–800–257–7777 at least 48 hours prior to any excavation work.
13. For driveway entrance details, refer to Ho. Co. Design manual Volume IV details.
14. In accordance with Sections 128.A.1.b and .c of the Zoning Regulations, bay windows or chimneys not more than feet in width may project not more than feet into any setbacks; porches and decks may project not more than feet into the front or rear setbacks.
15. Stormwater Management is provided per: Thorton Woods.

DETAIL 24 – STABILIZED CONSTRUCTION ENTRANCE



Construction Specification

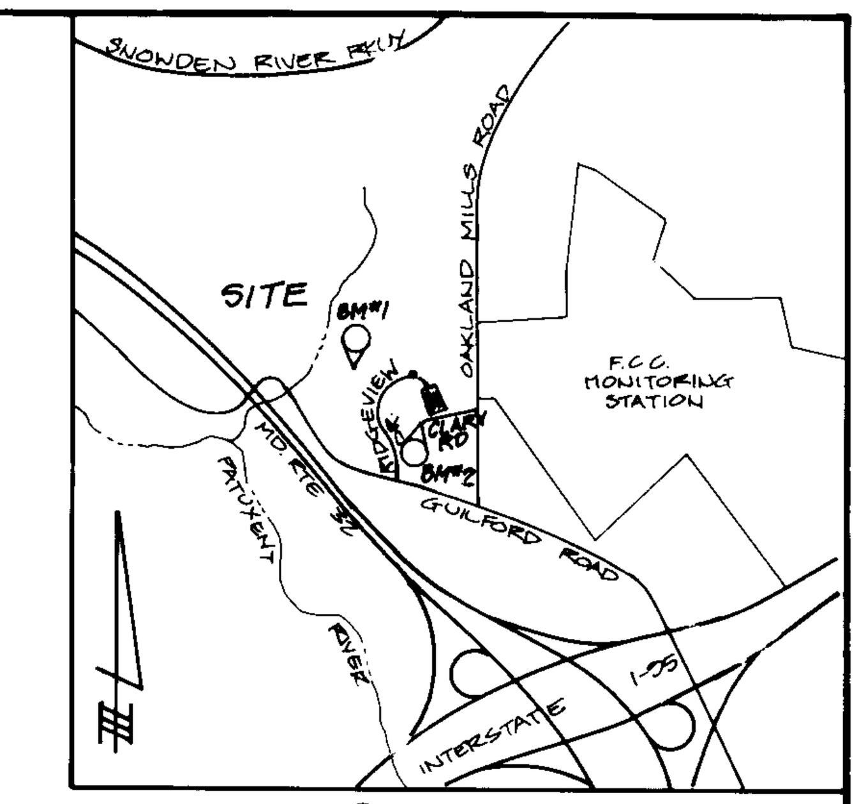
1. Length – minimum of 50' (*30' for single residence lot).
2. Width – 10' minimum, should be flared at the existing road to provide a turning radius.
3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single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

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE F - 17 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

LEGEND

Contour Interval 2 Ft.
Proposed Contour ----448----
Existing Contour — 448 —
Spot Elevation + 48.2
Direction of Drainage →
Silt Fence —SF—SF—
Stabilized Construction Entrance w/Mountable Berm (SCE)
Ex Trees to Remain

VICINITY MAP



SCALE: 1"=2000'

BENCH MARKS

BM #1 Top of concrete monument Elev.=353.18
BM #2 Top most bolt on fire hydrant Elev. 384.98

PLANT SCHEDULE

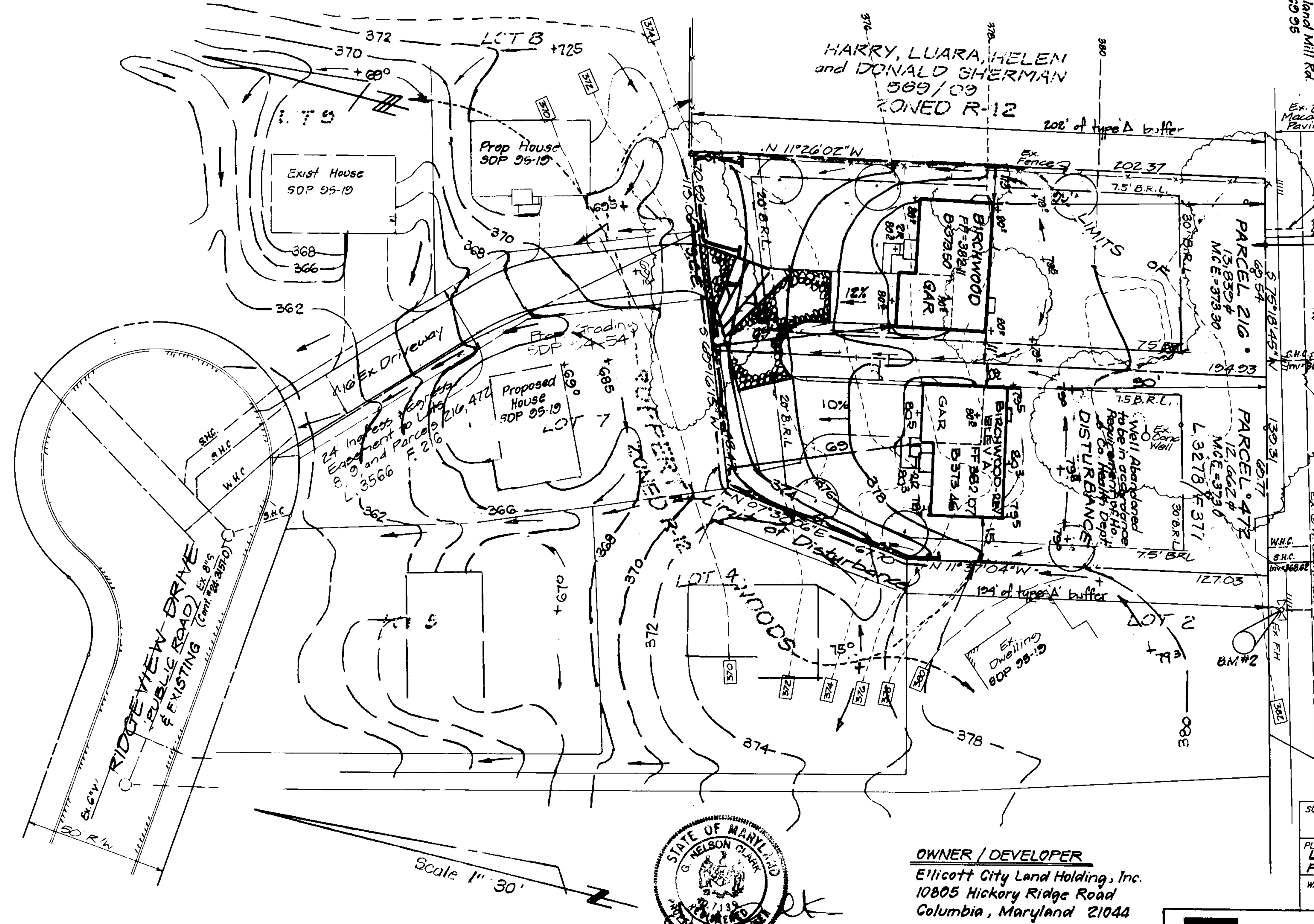
6 - Acer Rubrum Red Maple	2½" Cal.	B & B	

SCHEDULE A

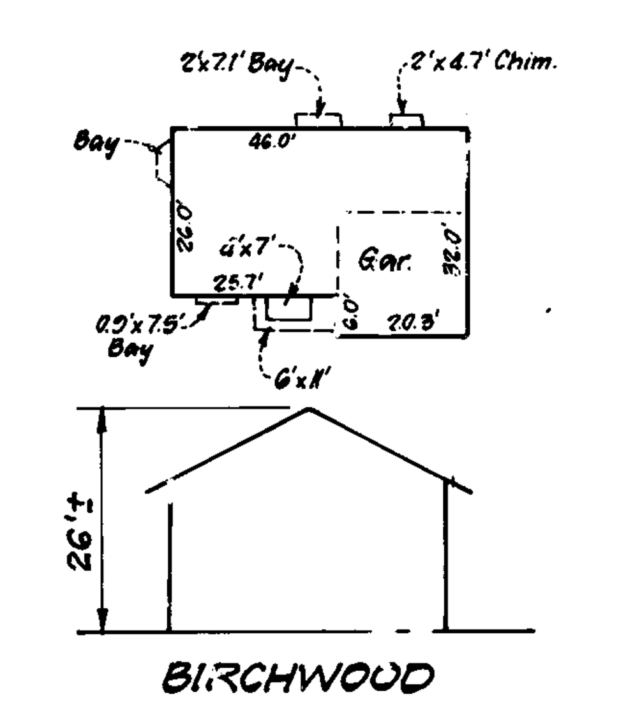
Landscape Type	A
Linear feet of Perimeter	300'
Credit for Existing Vegetation	30'
Number of Plants required	6
Number of Plants provided	6

SPECIAL NOTES:

1. This plan is for house siting and lot grading only. Improvements shown within the rights–of–way on this S.D.P. are not to be used for construction. See approved Water & Sewer Plans Contract #178-W & 609-S-B.
2. This plan has been prepared in accordance with the provisions of Section 10.124 of the Ho. Co. Code & L.S. manual. Financial surety for the required landscaping must be posted as part of the Grading Permit in the amount of $600.00.



NOTE: The owner shall notify DPW in writing of which SHC is to be Utilized, for Parcel 216.



N°	REVISION	DATE
4	Add L.S. buffers & plant list per Ho.Co. Comments	4-8-96
3	Revised grading along the shared driveway on Lots 7 & 8 to divert the drainage toward Ridgeview Dr per D.E.D comments	3-29-96
2	RAISE HSE ELEV PARCEL 472 8" PER CLIENT - GRADING REVISED	12-21-95
1	REV. HSE & GRD PARCEL 472 FROM GEN BOX TO BIRCHWOOD	12-8-95

Reviewed for HOWARD S.C.D. and meets Technical Requirements
[signature] 4/15/96
Signature Date
U.S. Natural Resources Conservation Service

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

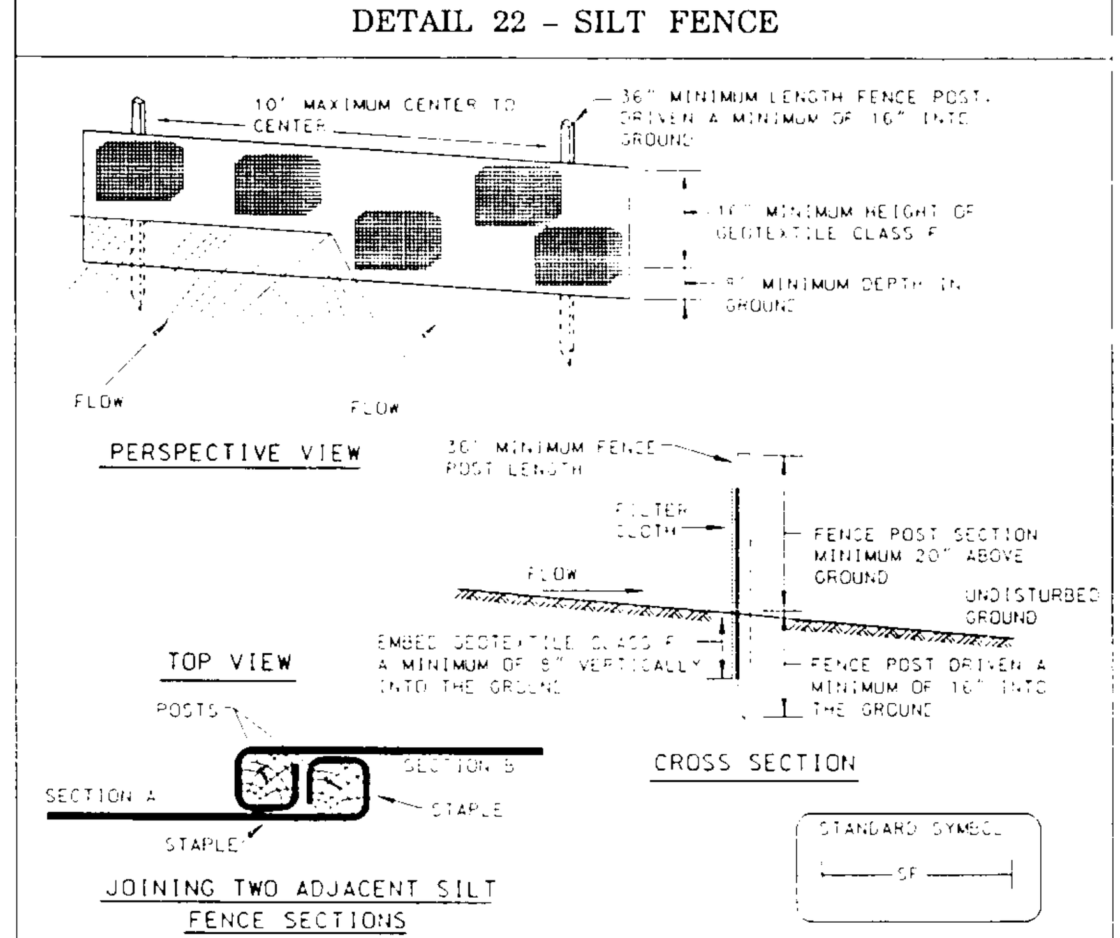
[signature] 4/15/96
Approved

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[signature] Chief, Development Engineering Division	4/10/96 Date
[signature] Chief, Division of Land Development and Research	4/19/96 Date
[signature] Director	4/22/96 Date

585632

DETAIL 22 – SILT FENCE



Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1½" x 1½" square (minimum) cut, or 1¾" 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:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft²/ minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

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 bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E - 15 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on–site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary".

[signature] 2-14-96

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion 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.

[signature] 2-14-96
G NELSON CLARK Date

STATE OF MARYLAND G. NELSON CLARK No. 7139 REGISTERED PROFESSIONAL ENGINEER

OWNER / DEVELOPER
Ellicott City Land Holding, Inc.
10805 Hickory Ridge Road
Columbia, Maryland 21044

ADDRESS CHART	
PARCEL	ADDRESS
216	9547 RIDGEVIEW DRIVE
472	9545 RIDGEVIEW DRIVE

SUBDIVISION NAME				SECTION/AREA	LOTS/PARCELS
SHERMAN PROPERTY				N/A	216 & 472
PLAT NO. L 3278 L3278 F 307 F377	BLOCK NO. 16	ZONE R-12	TAX MAP NO. 42	ELECTION DIST. 6TH	CENSUS TRACT 6067.03
WATER CODE N/A			SEWER CODE N/A		

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 – BALTO. • (301) 621-8100 – WASH.

DESIGNED RMT ZAL	SITE DEVELOPMENT, SEDIMENT AND EROSION CONTROL PLAN PARCELS 216 & 472 SHERMAN PROPERTY 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=30'
DRAWN BAL		DRAWING 1 OF 1
CHECKED jme		JOB NO. 96-038
DATE 4-9-96	For: RYAN HOMES, INC. 11460 Cronridge Dr. Suite 128 Owings Mills, Md. 21117	FILE NO. 96-038X

S.D.P. 96-90