

**PERMANENT SEEDING NOTES**

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeded 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 on the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) before seeding. For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through 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.

- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 through April 30 and August 1 through October 15, seed with 60 lbs per acre (1.4 lbs/1000 sf) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 16 through 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/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 sf) of unratted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseeds.

**SEDIMENT CONTROL NOTES**

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.
  3. Following initial soil disturbances or redisturbances, 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 calendar days on all other disturbed or graded areas on the project site.
  4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the "Howard County Design Manual, Storm Drainage".
  5. All disturbed areas must be stabilized within the time period specified above in accordance with the "1991 Maryland Standards and Specifications for Soil Erosion and Sediment Control" for Permanent Seedings (Sec. 51), Sod (Sec. 54), Temporary Seeding (Sec. 50) and Mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding rates 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: 0.52 acre  
Area to be Disturbed: 0.38 acre  
Area to be roofed or paved: 0.06 acre  
Area to be vegetatively stabilized: 0.26 acre  
Total Cut: 200 cy +/-  
Total Fill: 50 cy +/-  
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 controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
  10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
  11. 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.
  12. Quantities and estimates shown are for sediment control purposes only. Contractor shall prepare his/her own quantity estimates to his/her satisfaction.
- \* 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 its grading permit number at the time of construction.

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (If not previously loosened).

Soil Amendments: Apply 800 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf).

- 1) Preferred - For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through 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.

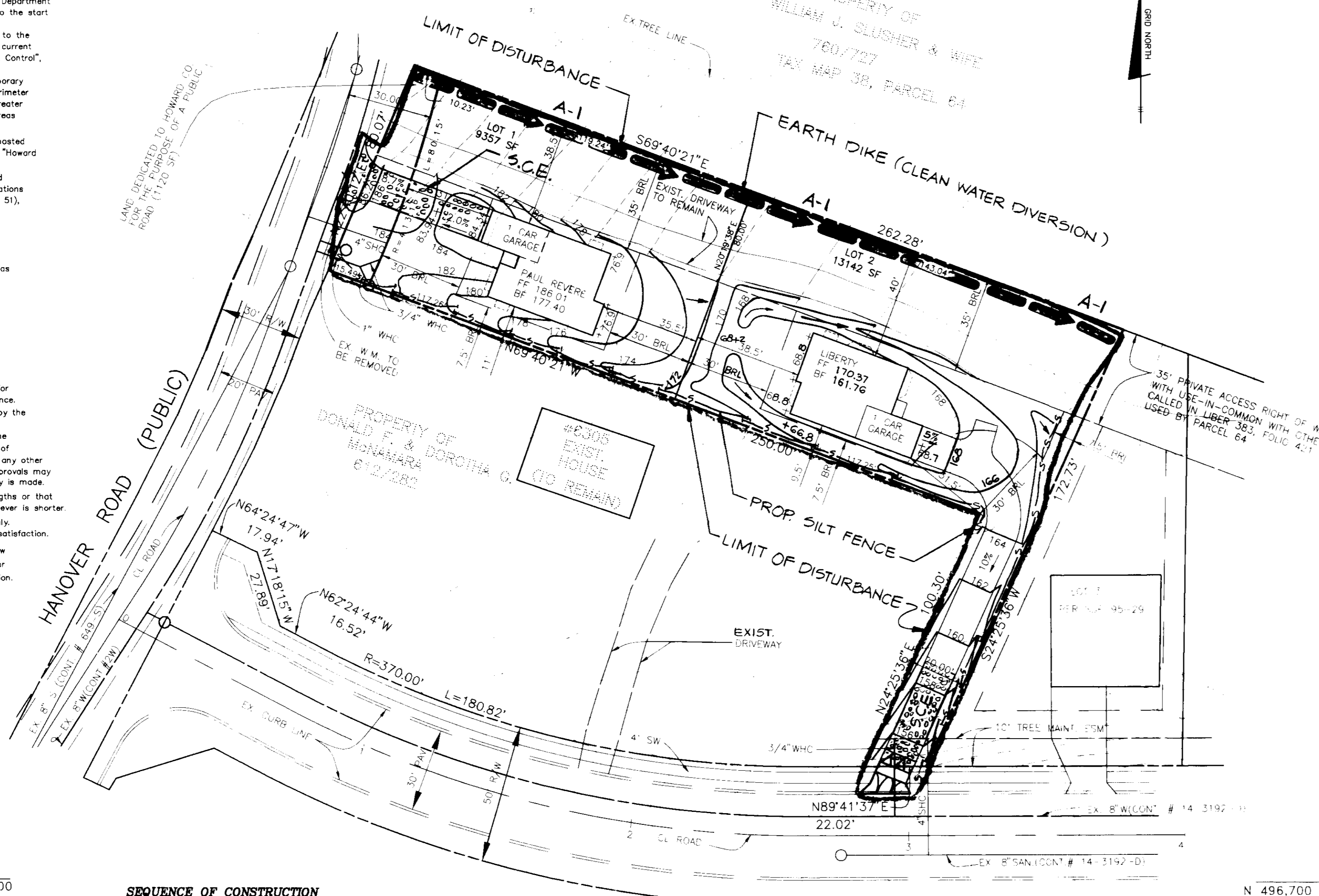
- 2) Acceptable - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unratted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unratted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rates and methods not covered.

N 497.050

E 878.750



**SEQUENCE OF CONSTRUCTION**

Notify Sediment Control Division 48 hours prior to start of construction.

1. Obtain grading permit
2. Clear and grub the site as indicated in this plan.
3. Install sediment and erosion control devices and stabilize.
4. Excavate for foundations, rough grade and temporary stabilization.
5. Construct structures and driveways.
6. Final grade and stabilize in accordance with standards and specifications.
7. Upon approval of the Howard County sediment control inspector, remove sediment and erosion control devices and stabilize.

Duration
Day 1
Days 2-3
Days 4-5
Days 6-10
Days 11-13
Days 13-15
Days 15-17

**PATUXENT QUARTER ROAD (PUBLIC)**

LOT NO.	GROSS AREA	PIPESTEM AREA	REMAINING AREA	100 YR FLOODPLAIN	25% SLOPE	MINIMUM LOT SIZE
1	13142 SF	1900 SF	11242 SF	0	0	11242 SF

LOT NO.	SIC INV @ P.L.	MIN. CELLAR ELEV.
1	173.7'	177.4
2	142.8	149.0

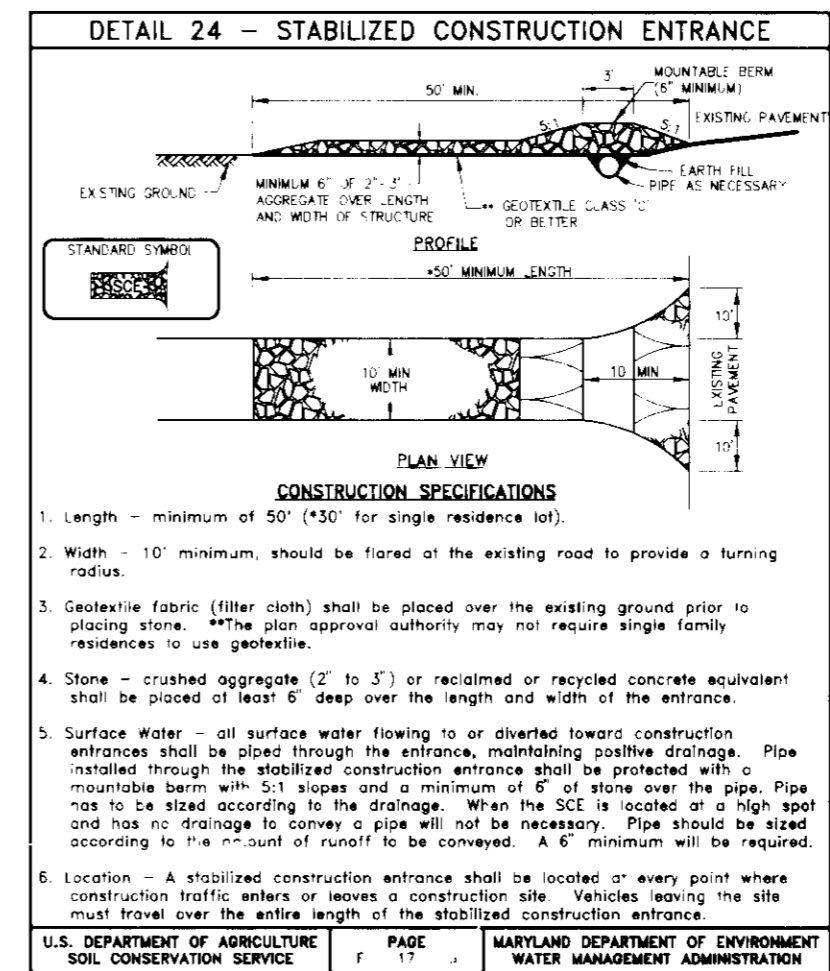
LOT NUMBER	STREET ADDRESS
1	6201 HANOVER ROAD
2	6205 PATUXENT QUARTER ROAD

**PERMIT INFORMATION CHART**

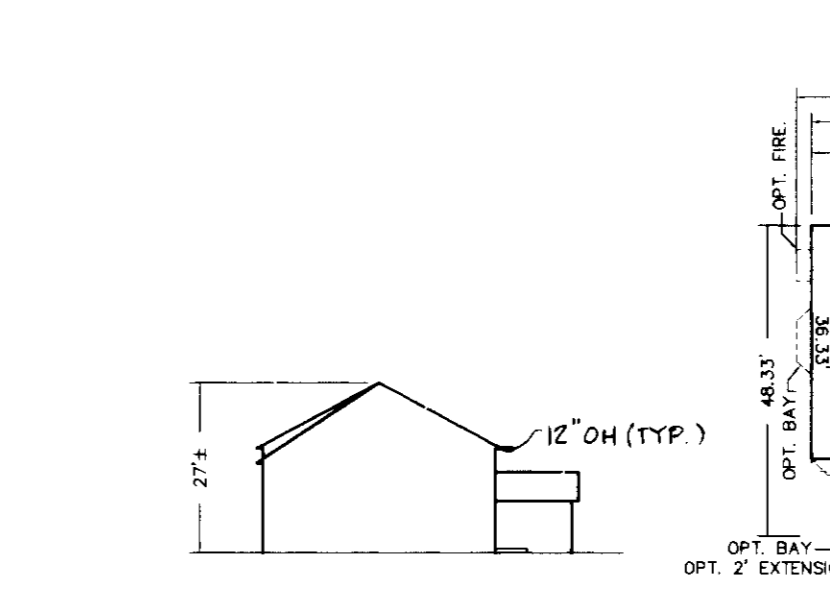
SUBDIVISION NAME			
PATAPSCO RIDGE			
LOTS 1 & 2			
SECTION	PARCEL #	PREVIOUS FILE:	
1	263, 793, 849	S-89-73, S-92-23, WP-92-127	
		P-91-10, P-92-11, WP-92-23	
		F-92-25, F-93-99, WP-91-54	
PLAT No.	BLOCK No.	ZONE	TAX MAP
11684, 11313 & 11319	15	R-12	38
WATER CODE	SEWER CODE	ELEC. DIST.	CENSUS
A01	2130000	1st	6012
SCALE:	AS SHOWN	DATE:	OCTOBER 30, 1995

**GENERAL NOTES:**

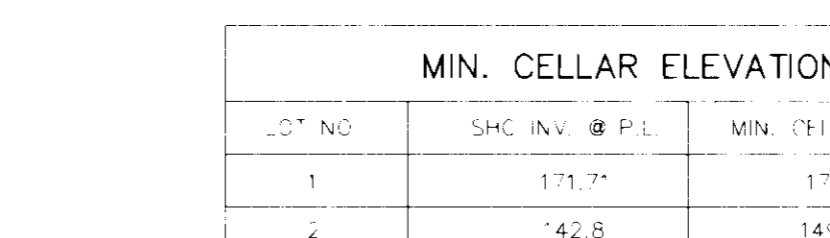
1. SUBJECT PROPERTY IS ZONED: R-12 PER 10-18-93 COMPREHENSIVE ZONING PLAN.
2. THE TOTAL AREA INCLUDED IN THIS SUBMISSION IS 0.52 ACRES.
3. THE TOTAL NUMBER OF LOTS INCLUDED IN THIS SUBMISSION IS 2. TOTAL BUILDABLE LOTS ARE 2.
4. IMPROVEMENT TO THE PROPERTY: SINGLE FAMILY DETACHED UTILITIES SHOWN AS EXISTING ARE TAKEN FROM APPROVED WATER AND SEWER PLAN CONTRACT #14-3281-D, #14-3190-D, AND #649-S, AND APPROVED ROAD CONSTRUCTION PLANS F-92-25 AND F-93-99.
5. ANY DAMAGE TO THE COUNTY/STATE OWNED RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S/BUILDER'S EXPENSE.
6. THE EXISTING TOPOGRAPHY WAS TAKEN FROM ROAD CONSTRUCTION PLANS F-92-25, F-93-99 AND FIELD RUN TOPO PREPARED BY TSA GROUP, INC.
7. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON MARYLAND GRID SYSTEM MDM-27 - HOWARD COUNTY MONUMENT NOS.: 2447002 AND 2447003.
8. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING AND CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 24 HOURS PRIOR TO THE START OF WORK.
9. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
10. THE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES AND EASEMENTS PRIOR TO THE CONSTRUCTION.
11. CONSTRUCTION APRON DETAIL SEE HOWARD COUNTY DETAIL R-6-03 AND R-6-06.
12. ALL ROADWAYS ARE PUBLIC AND EXISTING.
13. NO WETLANDS EXIST WITHIN THE LOTS OF THIS SUBMISSION.
14. FOR FLAG OR PIPE STEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPE STEM AND ROAD RIGHT OF WAY LINE AND NOT TO THE FLAG OR PIPE STEM LOTS DRIVEWAY.
15. DRIVENWAYS SHALL BE PROVIDED PRIOR TO THE RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A.) WIDTH: 12' (15' INCLUDING MORE THAN ONE RESIDENCE.) B.) SURFACE: 6" OF COMPACT CRUSHER B.W. BASE MATS AND CHIP COATING C.) GEOMETRY: MAX. 15% DRIVEWAY GRADE, MAX. 10% GRADE CHANGE
16. STORMWATER MANAGEMENT IS PROVIDED BY EXTENDED DETENTION AS APPROVED UNDER F-92-25 AND F-93-99.
17. STREET TREES WILL BE PROVIDED IN ACCORDANCE WITH SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS BY BUILDER AS APPROVED UNDER F-92-25 AND F-93-99.
18. PORCHES OR DECKS, OPEN OR ENCLOSED EXTERIOR STAIRWAYS CANNOT PROJECT MORE THAN 10' INTO THE REQUIRED FRONT OR REAR YARD SETBACK AREA.
19. ALL FIREPLACE CHIMNEYS, BAY WINDOWS, BALCONIES, EXTERIOR STAIRWAYS NOT MORE THAN 10 FEET IN WIDTH, MAY PROJECT NOT MORE THAN FOUR (4) FEET INTO ANY REQUIRED SETBACK AREA.
20. CONTRACTOR SHALL ADJUST ALL UTILITY APPURTENANCES TO FINISHED GRADE.
21. STAKEOUT OF BUILDINGS SHOWN HEREON SHALL BE BASED ON AN APPROVED SDP AND RECORDED RECORD PLATS.
22. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS & SPECIFICATIONS OF HOWARD COUNTY AND MSHP IF APPLICABLE.



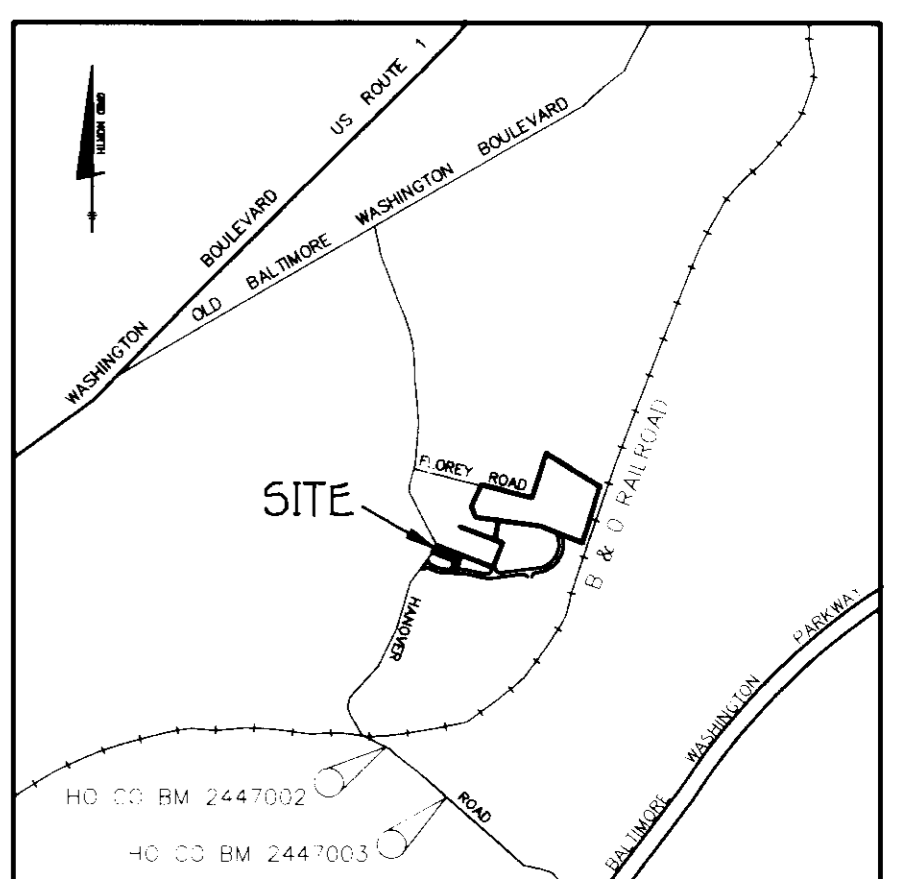
CONSTRUCTION SPECIFICATIONS:  
 1. Length - minimum of 50' (30' for single residence lot).  
 2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.  
 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. \*The plan approval authority may not require single family residences to use geotextile.  
 4. Stone - crushed aggregate (2" to 3") or recycled or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the structure.  
 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 5" diameter manhole with 5:1 slopes and a minimum of 6" of stone above the pipe. Pipe may be placed through the drainage. When the site is located on a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the "Handbook of Storm Drainage". 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 shall travel over the entire length of the stabilized construction entrance.



CONSTRUCTION SPECIFICATIONS:  
 1. Seed and cover with straw mulch.  
 2. Seed and cover with Erosion Control Matting or Bio with sod.  
 3. A 7' stone or crushed concrete equivalent placed into the soil 7' minimum.  
 4. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.  
 5. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area of a non-erosive velocity.  
 6. All trees, brush, stumps, obstructions, and other obstructions shall be removed and disposed of so as not to interfere with the proper functioning of the dike.  
 7. The dike shall be excavated or shaped to flow, grade and cross section as required to meet the criteria specified herein and be free of bank protrusions or other irregularities which will impede normal flow.  
 8. Fill shall be compacted by earth moving equipment.  
 9. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.  
 10. Inspection and maintenance must be provided periodically and after each rain event.



SILT FENCE DESIGN CRITERIA:  
 Slope Steepness: Other than 30:1  
 Slope Length: 125 feet  
 Slope Length: 100 feet  
 Slope Length: 80 feet  
 Slope Length: 60 feet  
 Slope Length: 40 feet  
 Slope Length: 20 feet



**VICINITY MAP**  
 SCALE: 1" = 2000'  
**BENCH MARKS**  
 HO CO BM 2447002 ELEV. 29.52'  
 N 49494.946 E 276229.612  
 CONC. MONUMENT FOR TOLLA'S AND HANOVER ROAD 0.3' BELOW SURFACE  
 HO CO BY 2447003 ELEV. 46.28'  
 N 494376.047 E 276229.173  
 CONC. MONUMENT 0.2' BELOW SURFACE NW SIDE HANOVER ROAD AND RACE SQUARE

**BUILDER'S CERTIFICATE**  
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this 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 onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.  
 Signature: *Tony Connelly* Date: 10/20/95

APPROVED: *Charles J. [Signature]* 2/2/96  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
*John Swirmonyi* 2/19/96  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH  
*Frank V. [Signature]* 2/15/96  
 DIRECTOR (Acting)

**ENGINEER'S CERTIFICATE**  
 I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.  
 Signature: *John E. [Signature]* Date: 10/20/95

APPROVED: *Patricia Engler/WR* 1/31/96  
 NATURAL RESOURCES CONSERVATION SERVICE

APPROVED: *John R. [Signature]* 1/31/96  
 HOWARD SOIL CONSERVATION DISTRICT

TSA GROUP, INC.  
 planning • architecture • engineering  
 8000 Baltimore National Pike • Ellicott City, Maryland 21041 • (410) 663-6600  
 Signature: *John [Signature]*

OWNER/DEVELOPER: SECURITY DEVELOPMENT CORPORATION  
 P.O. BOX 417  
 ELLICOTT CITY, MARYLAND 21041  
 (410) 465-4244  
 PROJECT: PATAPSCO RIDGE SECTION 1 LOTS 1 & 2  
 LOCATION: TAX MAP 38 PARCELS 263, 793, 849 HOWARD COUNTY, MARYLAND  
 TITLE: SITE DEVELOPMENT & SEDIMENT CONTROL PLAN  
 DATE: OCT. 1995  
 SCALE: 1" = 30'  
 SDP-96-51