

**GENERAL NOTES**

- The subject property is zoned "R-20" per the 2/20/04 Comprehensive Zoning Plan and per the Comp Lite Zoning Amendments effective on July 28, 2006.
- This site is located within the Metropolitan District.
- Public water (contract #142-W) and sewer (contract #24-3879-D) To be utilized. Site is located within the Patapsco Drainage Area.
- Soils map no. 33
- Gross area of site: 3.601 Ac.±
- Area of proposed public R/W: 0 (Right of Way was dedicated under F-03-79 & F-03-80 along Scaggsville Road)
- Number of proposed buildable lots: 10
- Area of proposed buildable lots: 3.446 Ac.±
- Number of proposed Open Space lots: 1
- Area of proposed H.O.A. Open Space lot: 0.155 ac.±
- Open Space provided under the Hillside and Rocky Gorge V, L3707 Ac.± and the Hillside at Rocky Gorge VI, 0.94 Ac.± for a total of 2.3107 Ac.±
- Topography and existing utilities are based on a Field Run Topographic Survey prepared by C.B. Miller & Associates in November 2001.
- Field run Boundary Survey prepared by C.B. Miller & Associates in November 2001.
- This subdivision is exempt from A.P.F.O. Roads study in accordance with the justification presented within the A.P.F.O. traffic study prepared by Mars Group in June, 2003 and approved under SP-04-05.
- Per F-03-79 and F-03-80 there are no wetlands on site.
- Forest Stand Delineation and report prepared by Exploration Research, Inc. approved under F-03-79 and F-03-80.
- Forest Conservation obligations have been provided for under F-03-79 and F-03-80, by retention of 91 Ac. under Plat #16290 and 94 Ac. under Plat # 16292.
- There are no historic structures or cemeteries on-site.
- Previous County file numbers: F-03-79; F-03-80; S-03-18; SP-04-05, Contract No. 24-4464-D.
- Stormwater Management, Sediment & Erosion Control, Refuse Pad Screening and Street Tree Plantings shall be permitted within the limits of wetlands, stream(s), or their required buffers, floodplain and forest conservation easement areas.
- Overflow Parking Requirements (per Design Manual):
  - Number of parking spaces required: 5 (0.5 per unit x 9 new units)
  - Parking spaces provided in pull-off areas and on private driveway pads.
- 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 the road right-of-way line only and not onto the flag or pipe stem lot driveway.
- There is no 100 Year Floodplain on site.
- There is an existing dwelling on Lot 10 to remain. No new buildings, extensions or additions to the existing dwelling are to be constructed at a distance less than the zoning regulation requires.
- Perimeter Landscaping is addressed in accordance with Section 16.124 of the Howard County Code and the Landscape Manual.
- Coordinates based on NAD 83/91, Maryland Coordinate System as projected by Howard County, Geodetic Control Stations No. 47FT1 and No. 47FT2 Denotes approximate location (see vicinity map).
 

Sta. 47FT1	N 535,143.322 (feet)	E 1,346,960.276 (feet)	EL. 404.04'
Sta. 47FT2	N 534,509.424 (feet)	E 1,347,051.039 (feet)	EL. 401.10'
- The lots shown hereon comply with the minimum ownership width and lot area as required by the Maryland State Department of the Environment.
- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications if applicable.
- Traffic control devices markings and signing shall be in accordance with the latest edition of the Manual of Uniform Traffic Control Device (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- All street sign posts shall be 2" square metal tube posts (14 gauge) installed into a 3" sleeve (2.5" square metal tube, 12 gauge) with a cap on top.
- Driveway(s) shall be provided prior to issuance of a use and occupancy permit to ensure safe access for fire and emergency vehicles per the following requirements:
  - Width - 12 feet (14 feet serving more than one residence);
  - Surface - six (6") inches of compacted crusher run base with tar and chip coating (1-1/2" Minimum)
  - Structures (culvert/bridges) - capable of supporting 25 gross tons (H25-loading);
  - Geometry - Maximum 14% grade, Maximum 10% grade change and 45-foot turning radius;
  - Drainage elements - capable of sagely passing 100 year flood with no more than 1 foot depth over surface;
  - Structure clearances - minimum 12 feet;
  - Maintenance's - sufficient to ensure all weather use.
- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications if applicable.
- Street light placement and the type of fixture and pole shall be in accordance with the Howard County Design Manual, Volume III (1993) and as modified by Guidelines for Street Lights in Residential Developments (June 1993). A minimum 20' spacing shall be maintained between any street light and any tree. See Street Light Table, this sheet.
- The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work being done.
- The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work. All fills for public road surfaces require 95% compaction (ASHTO-T-99).
- The contractor shall notify the following utility companies or agencies at least five (5) working days before starting work shown on these plans:
 

State Highway Administration	410.531.5533
BGE(Contractor services)	410.850.4620
BGE(underground damage control)	410.787.9068
Miss Utility	1.800.257.7777
Colonial Pipeline Company	410.745.1390
Howard County, Dept. of Public Works, Bureau of Utilities	410.313.4900
Howard County Health Department	410.313.2640
- The Private access Place and Refuse Pad Maintenance Agreement for Lots 1 to 11 shall be recorded simultaneously with this plot in the Land Records Office of Howard County, MD.
- In accordance with the conditions and approval of WP 03-64, the Department of Recreation and Parks shall not share in the maintenance of the use-in-common private access place serving the residential lots.
- This plan conforms to the Fifth Edition of the Subdivision and Land Development Regulations, having preliminary/equivalent (SP 04-05) plan approval prior to October 2, 2003.
- Financial surety for the required landscaping, refuse pad screening and the private access place street tree planting will be posted as part of the Developer's Agreement under this plot, F-07-77 in the amount of \$10,590.00 (32 shade trees @ \$300.00 each, 5 evergreen trees @ \$150.00 each, and 8 shrubs @ \$30 each).
- Stormwater Management is provided as follows: This site is exempt from providing C/P Management, WQ and Rev are provided thru the Grass Channels, Pocket Sand Filter and Sheet Flow to Buffer Credits.
- The public road frontage for Open Space Lot 3, The Hillside at Rocky Gorge V, Plat 16292, and Open Space Lot 3, The Hillside at Rocky Gorge VI, Plat 16522, is derived from Stansfield Road. Howard County Department of Recreation and Parks shall not share in maintenance responsibility for the private access place easement or driveway.
- The contractor or developer shall contact the Construction Inspection Division 24 hours in advance of commencement of work at (410) 313-1880.

# FINAL ROAD CONSTRUCTION PLANS

## THE HILLSIDE AT ROCKY GORGE VII

### LOTS 1 THRU 10 AND OPEN SPACE LOT 11

## A RESUBDIVISION OF THE HILLSIDE AT ROCKY GORGE V LOT 2 RECORDED IN PLAT NUMBER 16290 AND THE HILLSIDE AT ROCKY GORGE VI LOTS 1 & 2 RECORDED IN PLAT # 16520

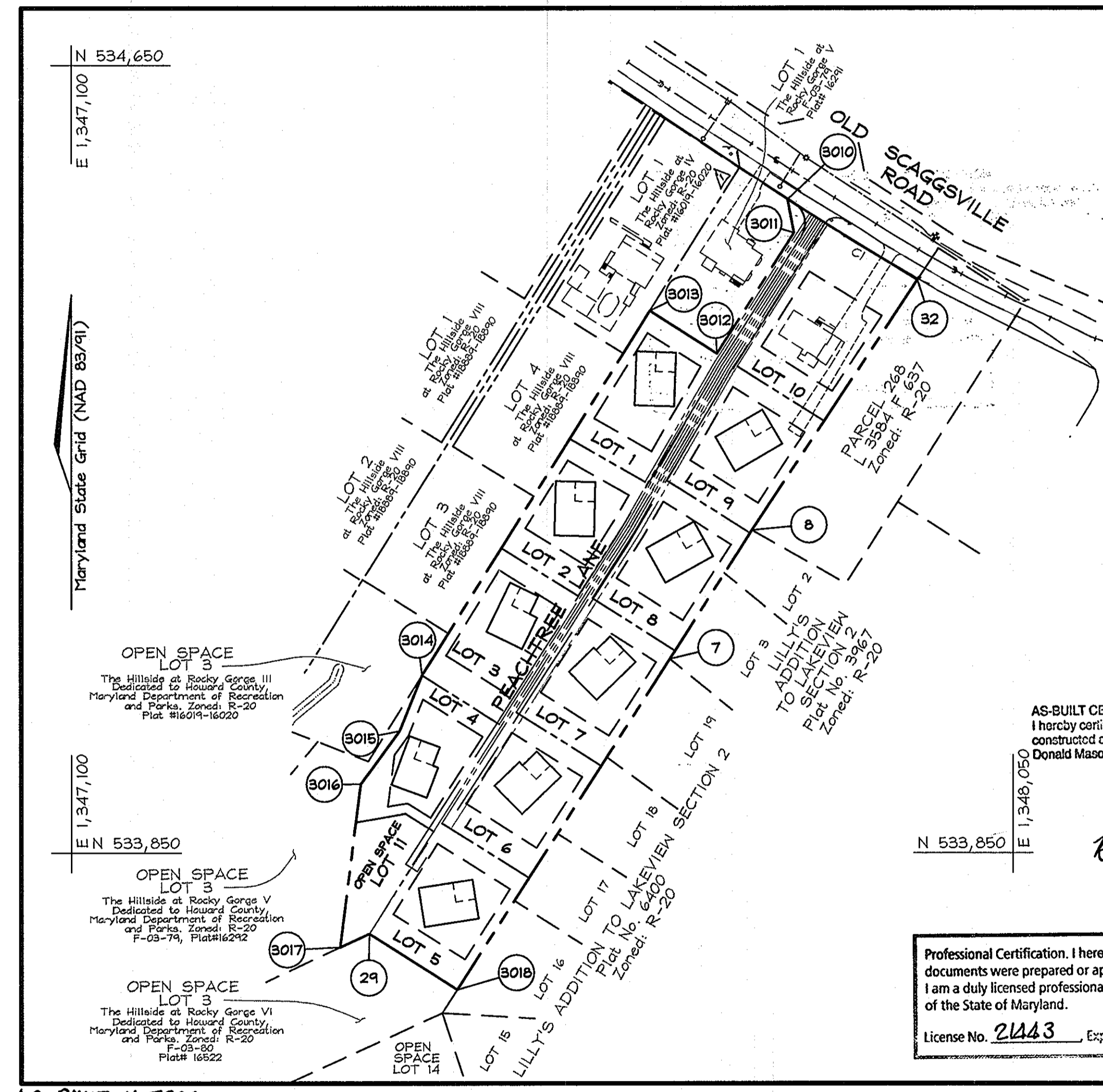
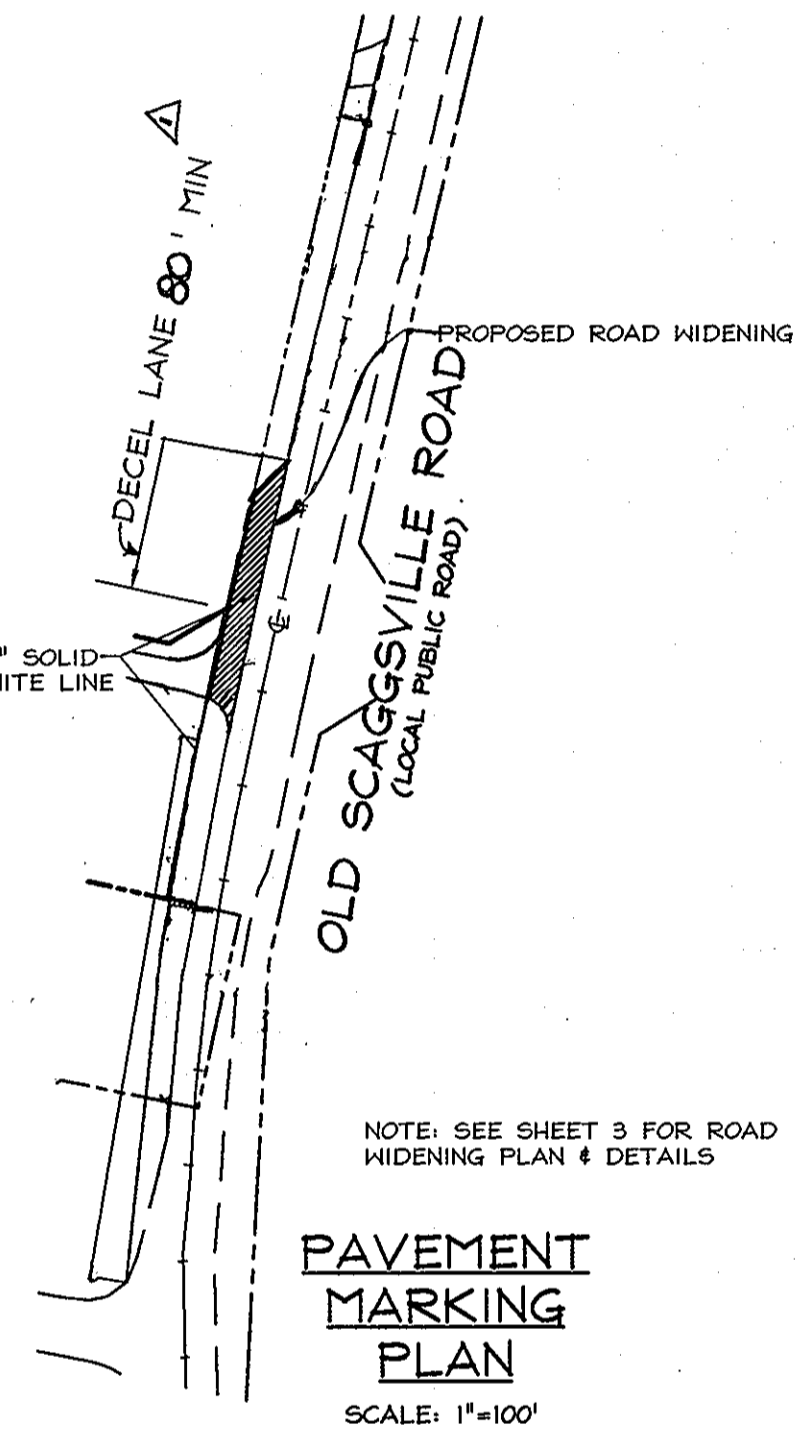
**LEGEND**

- Existing Contour
- Proposed Contour
- Existing Spot Elevation
- Existing Trees to Remain
- Utility Pole
- Stream Bank Buffer
- Stream
- Ex. Public Access Easement
- Ex. Public Sewer Easement
- Prop. Public Water, Sewer & Utility Easement
- Prop. Public Water & Utility Easement
- Prop. Private Access Place, SHM & Utility Easement for Lots 1 to 11
- Prop. Private Stormwater, Drainage & Erosion Control Easement
- Prop. Public Sewer & Utility Easement

**VICINITY MAP**  
SCALE: 1"=200'

**GEODETIC SURVEY CONTROLS**  
Howard County Geodetic Control Stations No.47FT1 and No.47FT2 Denotes approximate location (see vicinity map).

Sta. 47FT1	N 535,143.322 (feet)	E 1,346,960.276 (feet)	EL. 404.04'
Sta. 47FT2	N 534,509.424 (feet)	E 1,347,051.039 (feet)	EL. 401.10'



**SHEET INDEX**

DESCRIPTION	SHEET No.
Cover Sheet	1 of 7
Road Plan and Profile for Peachtree Lane	2 of 7
Road Plan and Profile for Old Scaggsville Road	3 of 7
Sediment & Erosion Control, Perimeter Plantings, Refuse Pad Screening and Street Tree Plantings	4 of 7
Stormwater Management, Sediment & Erosion Control & Miscellaneous Notes & Details	5 of 7
Stormdrain Drainage Area Map & Stormdrain Profiles	6 of 7
Perimeter Plantings, Refuse Pad Screening & Street Tree Plantings Plan	7 of 7

**COORDINATE TABLE**

POINT	NORTHING	EASTING
7	534,047.6400	1,347,703.0520
8	534,177.7860	1,347,786.0150
29	533,767.7771	1,347,400.3499
32	534,431.6801	1,347,953.0676
3,010	534,513.2901	1,347,822.7895
3,011	534,479.2764	1,347,829.4347
3,012	534,357.0515	1,347,751.6520
3,013	534,400.3016	1,347,683.6903
3,014	534,031.2119	1,347,453.7689
3,015	533,974.4034	1,347,431.0687
3,016	533,920.3470	1,347,391.8505
3,017	533,753.9654	1,347,370.9024
3,018	533,711.1248	1,347,489.1404

**RIGHT-OF-WAY ELEVATION CHART**

NO.	DESCRIPTION	ELEV.
32	IRON PIPE FND	400.19
3010	REBAR & CAP	402.13

**MINIMUM LOT SIZE CHART**

LOT NUMBER	GROSS AREA (SF)	PIPESTEM AREA (SF)	MINIMUM LOT SIZE (SF)
1	13,625±	751±	12,874±
2	12,953±	850±	12,103±
3	15,336±	1,207±	14,129±
4	13,713±	1,613±	12,100±
5	16,208±	1,923±	14,285±
6	15,709±	1,561±	14,148±
7	15,303±	1,191±	14,112±
8	14,850±	816±	14,034±
9	14,458±	453±	14,005±

**CURVE TABLE**

CURVE	RADIUS	LENGTH	DELTA	TANGENT	CHORD
CI	4285.83'	154.42'	02°03'52"	77.22'	958'05 3/4" EL. 154.41'

**STREET LIGHT TABLE**

STREET NAME	LOCATION	OFFSET	FIXTURE TYPE
Peachtree Lane	N 533,855.20 E 1,347,455.84	-	100 watt HPS vapor Premier post top mounted
Peachtree Lane	Sta. 3+42	13' Right	100 watt HPS vapor Premier post top mounted
Peachtree Lane	N 534,493.38 E 1,347,634.57	-	150 watt HPS vapor Premier post top mounted

Note: Street lights shown are private and are the maintenance responsibility of the H.O.A.  
\* Denotes Street Light



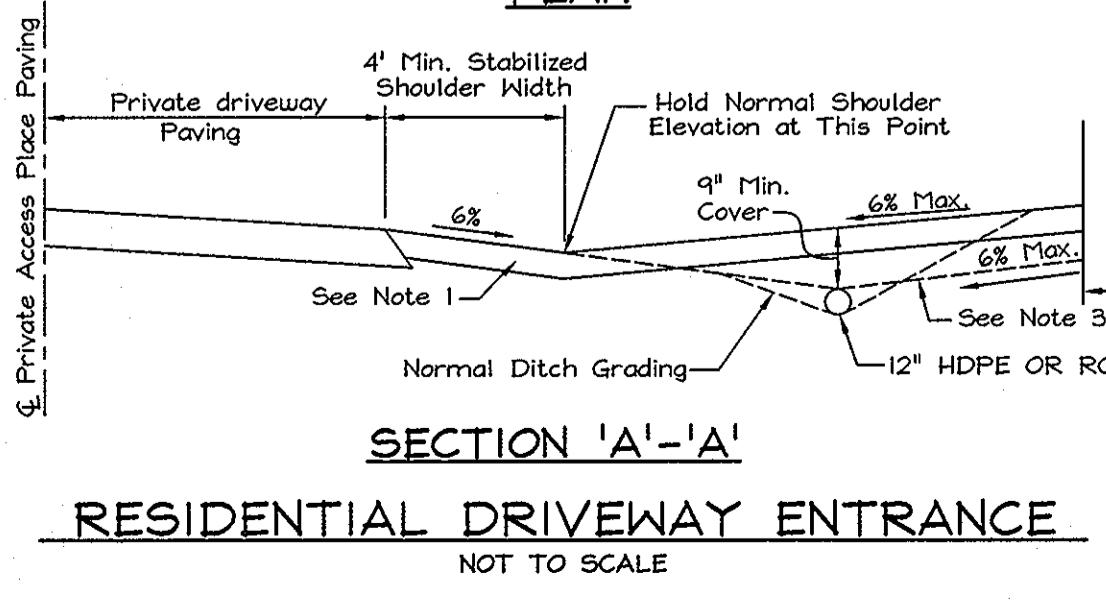
**REVISIONS**

NO.	DATE	DESCRIPTION	BY
2	11-14-11	REMOVE ACCELERATION LANE	BEZ
1	8-17-11	REVISE LIMITS OF DECELLANES	BEZ
	NO DATE	REVISION	BY

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Cynthia Hamilton* 2/11/08  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Michael P. ...* 2/11/08  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



**COVER SHEET**

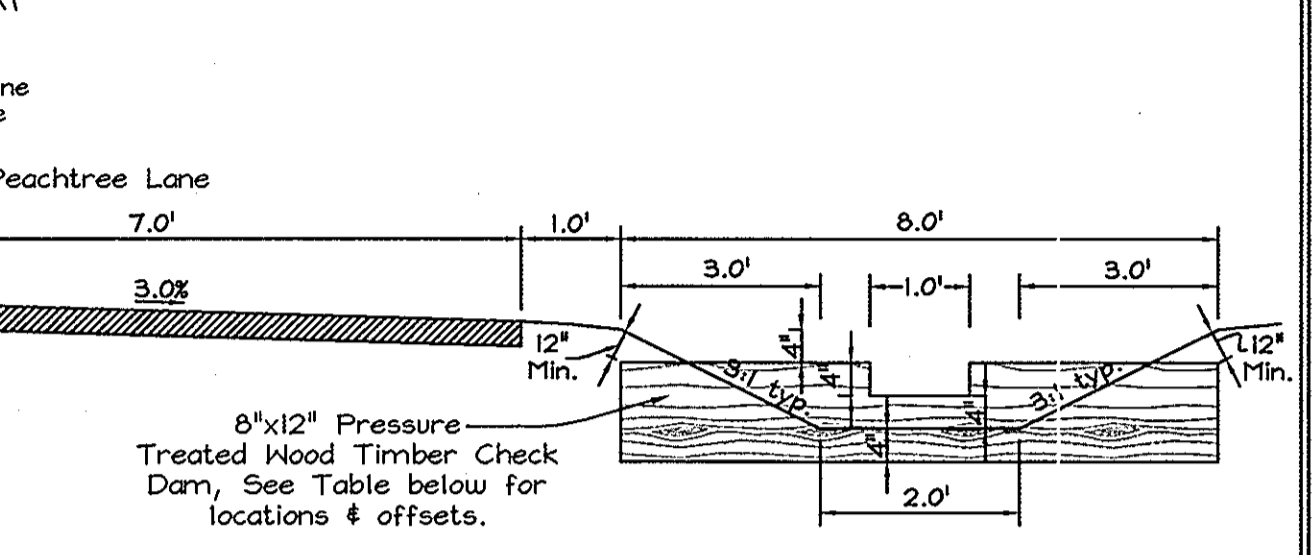
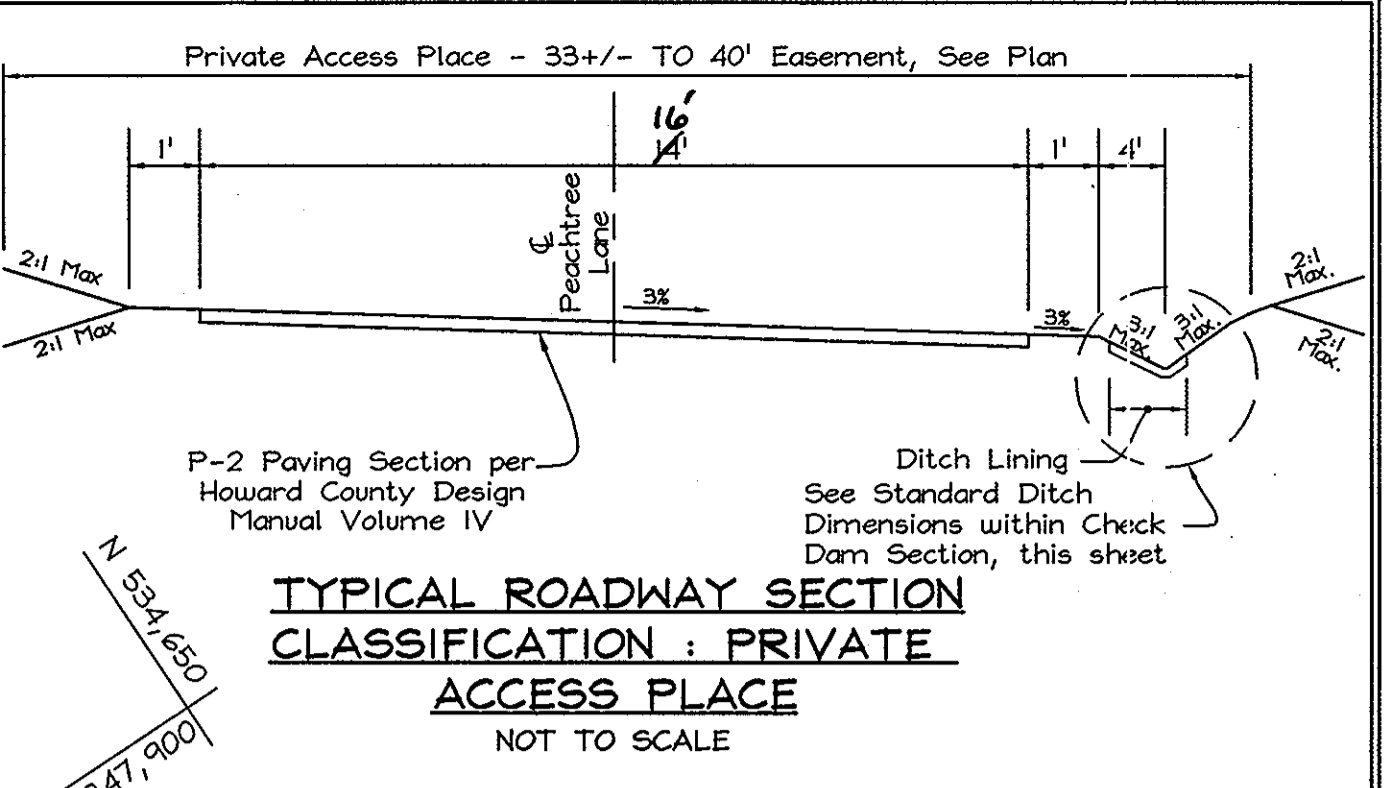
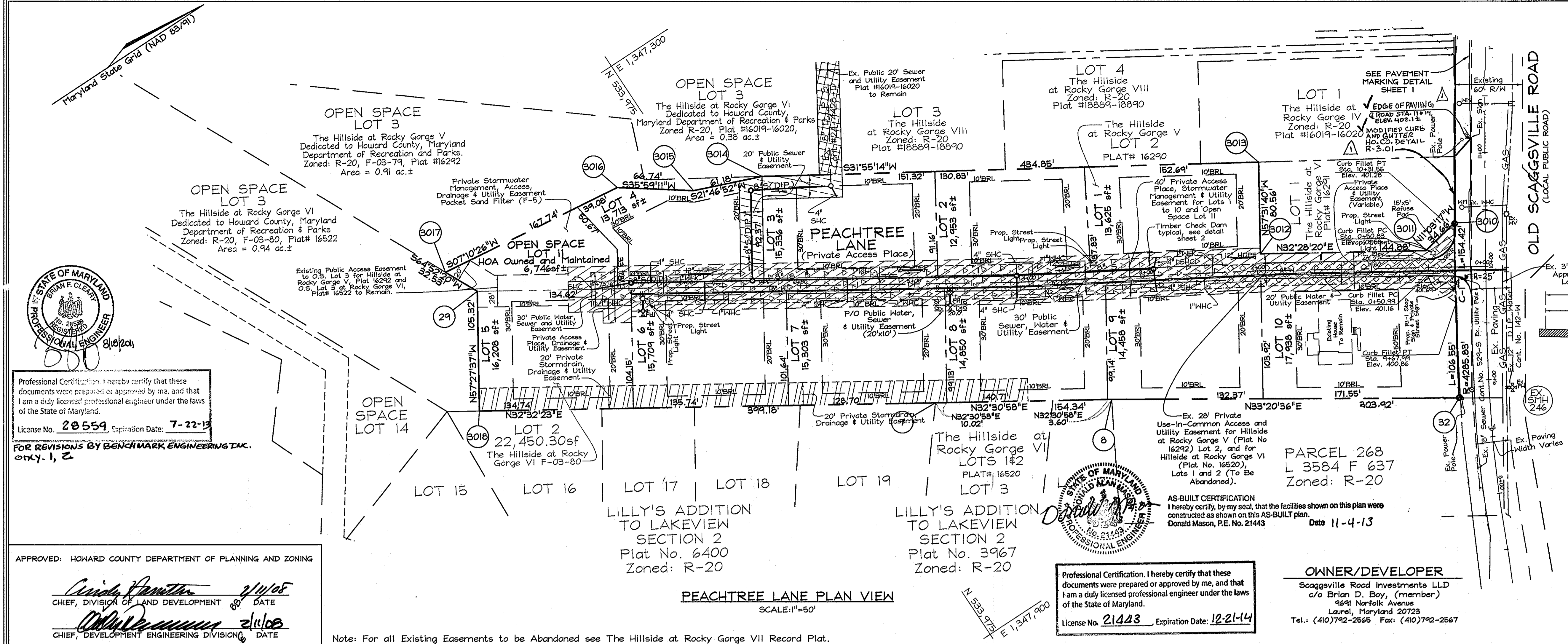
**THE HILLSIDE AT ROCKY GORGE VII**  
LOTS 1 THRU 10 AND OPEN SPACE LOT 11  
A RESUBDIVISION OF LOT 2, THE HILLSIDE AT ROCKY GORGE V PLAT #16290-16292 AND LOTS 1 & 2, THE HILLSIDE AT ROCKY GORGE VI PLAT 16520-16522

TAX MAP 46 GRID 18  
6TH ELECTION DISTRICT

PARCELS 92 and 149  
HOWARD COUNTY, MARYLAND

**FSH Associates**  
Engineers Planners Surveyors  
833 Howard Lane, Elkridge, MD 21075  
Tel: 410-567-5200 Fax: 410-796-1662  
E-mail: info@fsher.com

DESIGN BY: MT  
DRAWN BY: SAR  
CHECKED BY: ZYF  
SCALE: As Shown  
DATE: Jan. 23, 2008  
I.C. No.: 3050  
SHEET No.: 1 OF 7



DAM	LOCATION	STATION & OFFSET
1	N 534,399.5957 E 1,347,783.3777	1+44.01, 11' RT.
2	N 534,271.7437 E 1,347,704.9472	2+43.70, 11' RT.
3	N 534,143.5195 E 1,347,627.1666	4+44.07, 11' RT.
4	N 534,017.2170 E 1,347,546.3400	5+44.00, 11' RT.

Note: All



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
 License No. 28559 Expiration Date: 7-22-13  
 FOR REVISIONS BY BENCHMARK ENGINEERING INC. ONLY, 1, 2

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Cindy Hamilton* 2/11/08  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE  
*Chad Williams* 2/11/08  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

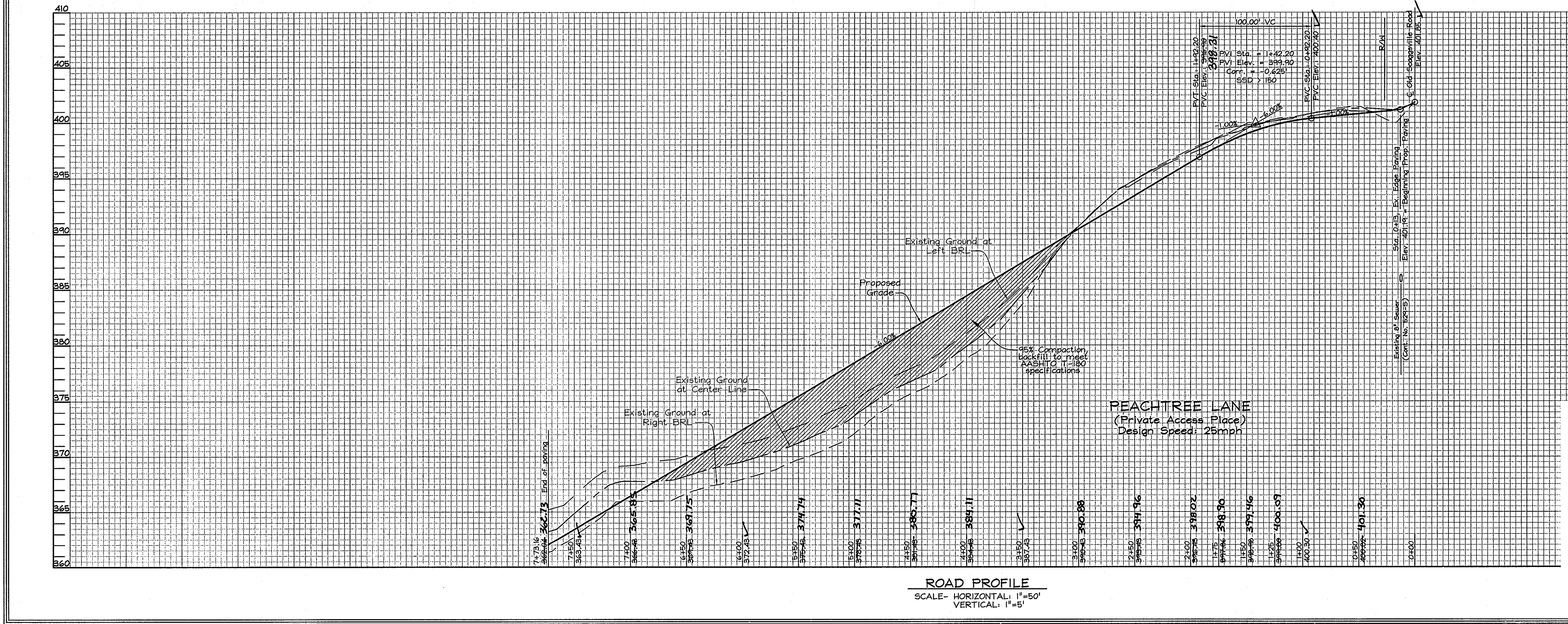


Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
 License No. 21443 Expiration Date: 12-21-14

OWNER/DEVELOPER  
 Scaggsville Road Investments LLD  
 c/o Brian D. Boy, (member)  
 9691 Norfolk Avenue  
 Laurel, Maryland 20723  
 Tel.: (410)742-2565 Fax: (410)742-2567

Note: For all Existing Easements to be Abandoned see The Hillside at Rocky Gorge VII Record Plat.

NO.	DATE	REVISION	BY
2	11-14-11	REMOVE ACCELERATION LANE & MOVE SIGN	BET
1	8-17-11	REVISE LIMITS OF DECEL LANE	BET
		REVISION	BY



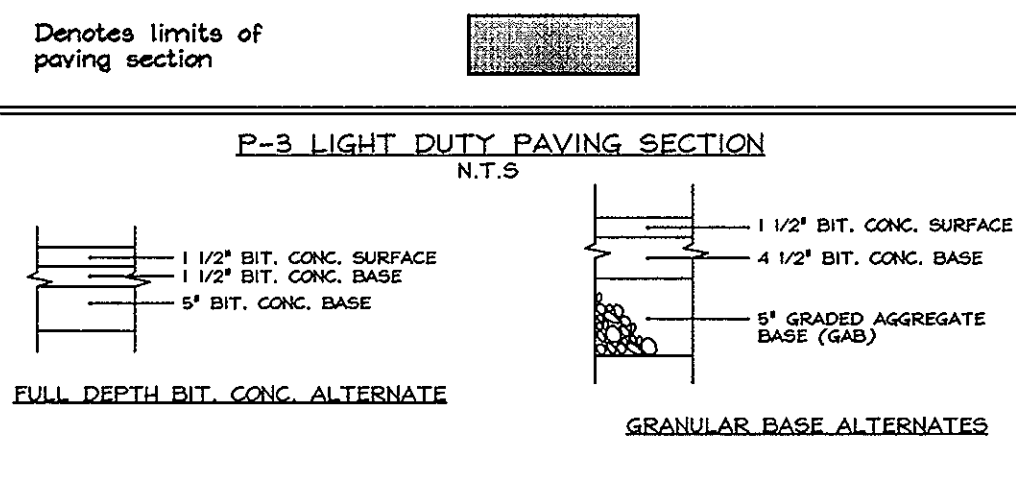
**ROAD PLAN AND PROFILE**  
**PEACHTREE LANE**  
**THE HILLSIDE AT ROCKY GORGE VII**  
 LOTS 1 THRU 10 AND OPEN SPACE LOT 11  
 A RESUBDIVISION OF LOT 2, THE HILLSIDE AT ROCKY GORGE V  
 PLAT #16290-16292 AND LOTS 1 & 2, THE HILLSIDE AT ROCKY GORGE VI  
 PLAT 16520-16522

TAX MAP 46 GRID 18 PARCELS 92 and 149  
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

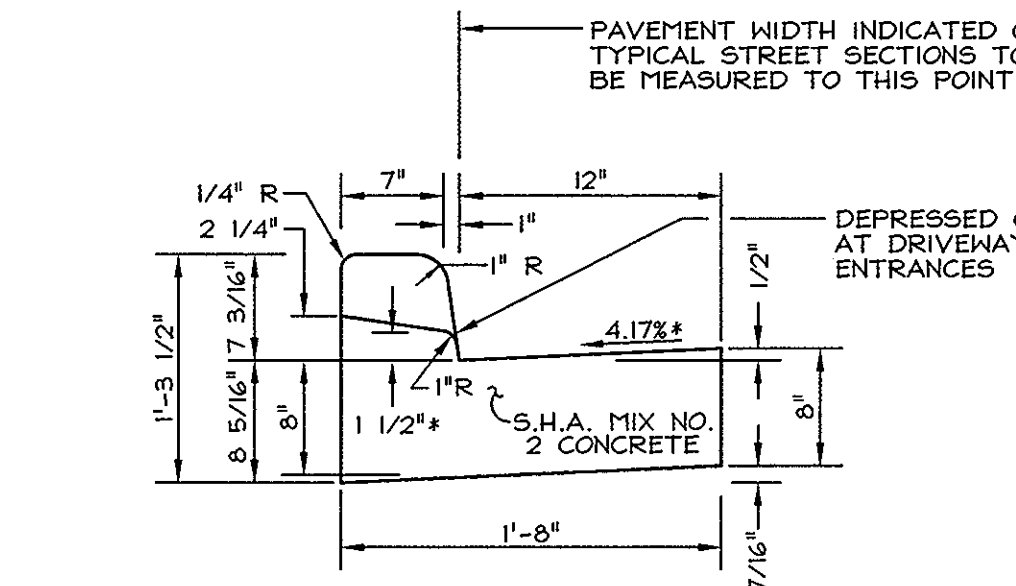
**FSH Associates**  
 Engineers Planners Surveyors  
 8339 Howard Lane, Elkridge, MD 21075  
 Tel: 410-567-5200 Fax: 410-796-1562  
 E-mail: info@fsh.com

DESIGN BY: KO  
 DRAWN BY: SAR  
 CHECKED BY: ZYF  
 SCALE: As Shown  
 DATE: Jan. 23, 2008  
 W.O. No.: 3050  
 SHEET No.: 2 OF 7

**LEGEND**



Note:  
Paving sections shown relates to a CBR value of 7. Actual CBR test results may cause modification of these paving sections.  
All paving to be P-1 unless otherwise noted. See plan for limits.

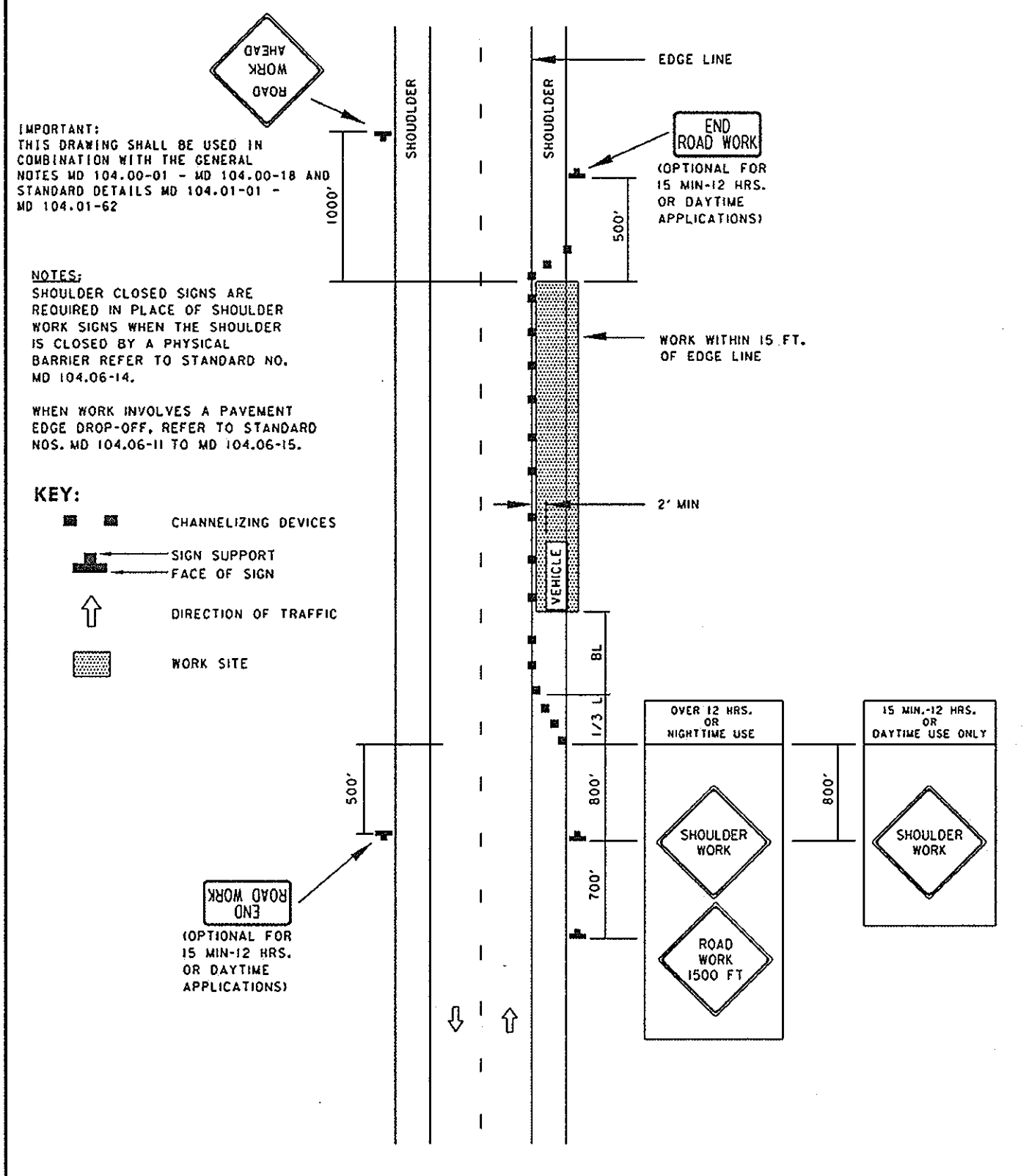


\*NOTE: DEPRESSED CURB IN HANDICAP ACCESSIBLE AREAS SHALL HAVE A 0.0417(1/24") RISE FROM PAVING TO TOP OF CURB.

**STANDARD COMBINATION CURB AND GUTTER**

HOWARD COUNTY STANDARD R-3.01  
NOT TO SCALE

**TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION**

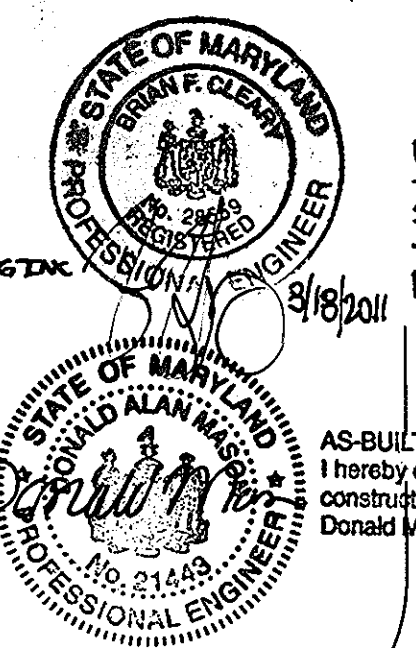


NO.	DATE	REVISION	BY
1	8-17-11	REVISE LIMITS OF DECEL LANE	BET
2	11-14-11	REMOVE ACCELERATION LAKE	BET

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 20559 Expiration Date: 7-22-13

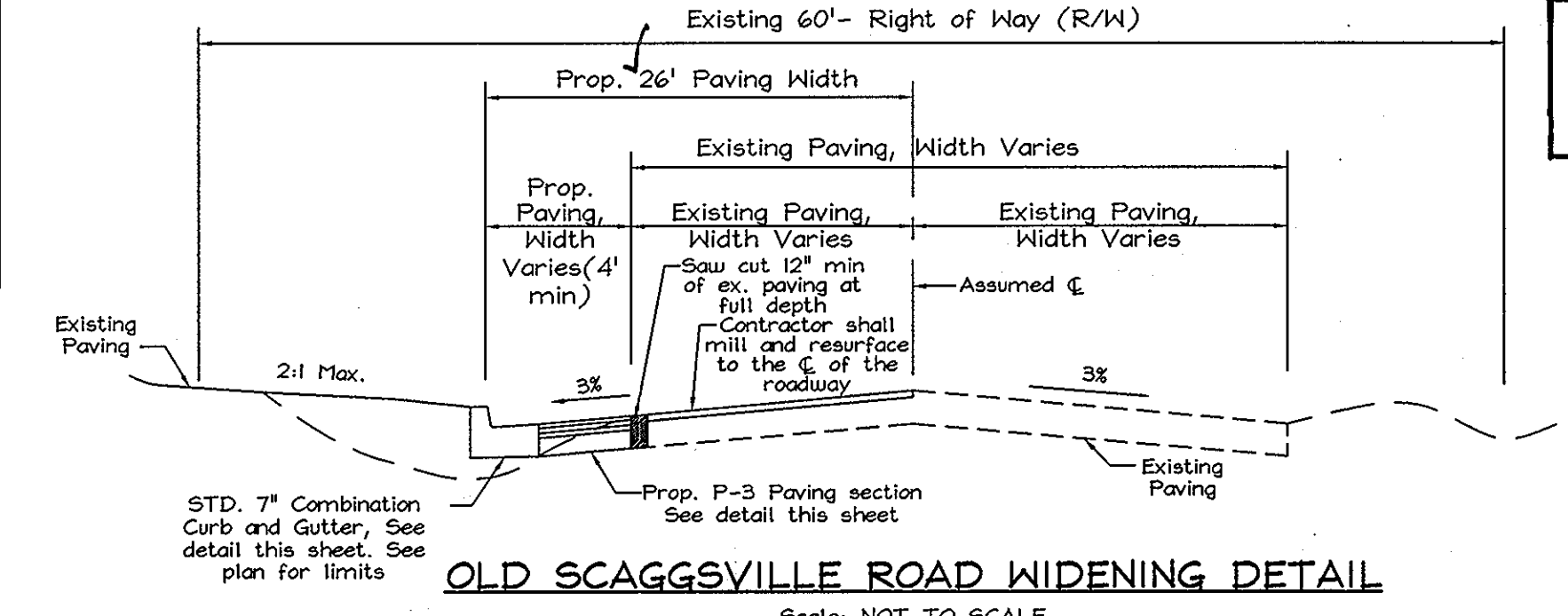
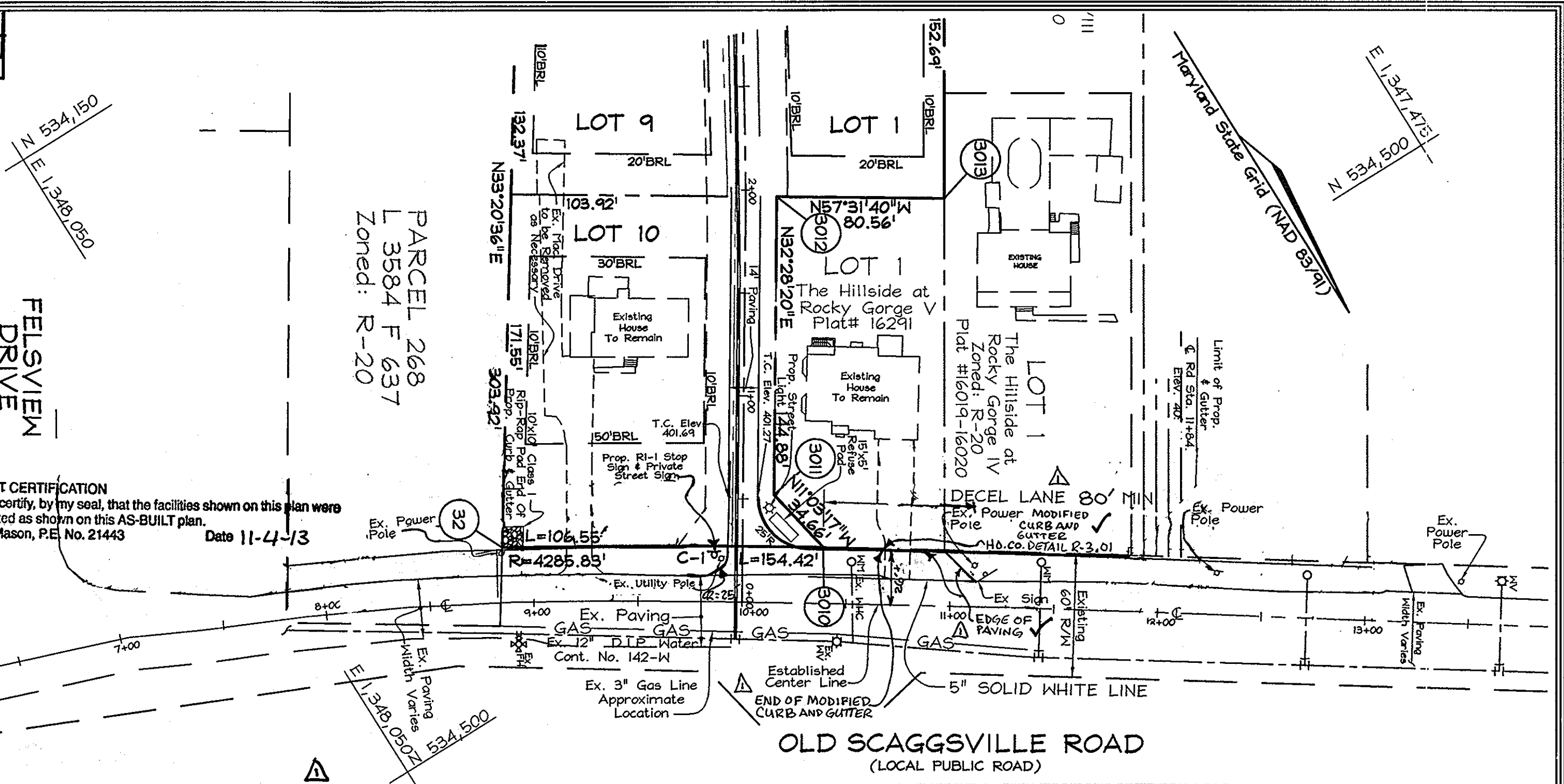
FOR REVISIONS BY BENCHMARK ENGINEERING INC. ONLY 1,2

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 21443 Expiration Date: 12-21-14



AS-BUILT CERTIFICATION  
I hereby certify, by my seal, that the facilities shown on this plan were constructed as shown on this AS-BUILT plan.  
Donald Mason, P.E. No. 21443 Date 11-4-13

- NOTES:
- When existing travel lane is less than the required 12' lane contractor shall remove a minimum of 1' full depth of the existing roadway. If curb and gutter is installed, provide a minimum of 4' of widening from the face of the gutter pan.
  - The existing pavement to be resurfaced shall be milled at a depth of 1 1/2" (minimum)
  - The resurfacing shall be placed to the center of the roadway.
  - Resurfacing course to be equal to the surface course of the typical pavement section.



NOTE: CURB AND GUTTER OF PEACHTREE LANE TERMINATES AT THE NORTHEAST CORNER OF LOT 1 DRIVEWAY

OWNER/DEVELOPER  
Scaggsville Road Investments LLD  
c/o Brian D. Boy, (member)  
4691 Norfolk Avenue  
Laurel, Maryland 20723  
Tel.: (410)792-2665 Fax: (410)792-2667

**ROAD PLAN AND PROFILE OLD SCAGGSVILLE ROAD**

**THE HILLSIDE AT ROCKY GORGE VII**  
LOTS 1 THRU 10 AND OPEN SPACE LOT 11  
A RESUBDIVISION OF LOT 2, THE HILLSIDE AT ROCKY GORGE V  
PLAT #16290-16292 AND LOTS 1 & 2, THE HILLSIDE AT ROCKY GORGE VI  
PLAT 16520-16522

TAX MAP 46 GRID 18  
6TH ELECTION DISTRICT

PARCELS 92 and 149  
HOWARD COUNTY, MARYLAND

**FSH Associates**  
Engineers Planners Surveyors  
6339 Howard Lane, Elkridge, MD 21075  
Tel: 410-567-5200 Fax: 410-796-1562  
E-mail: info@fshet.com

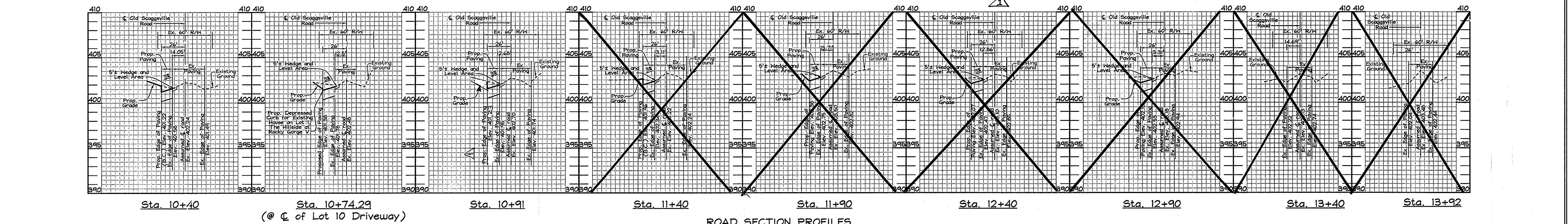
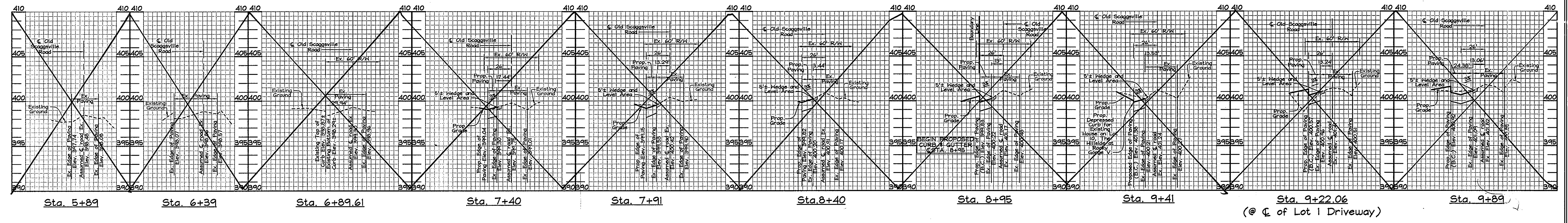
DESIGN BY: MT  
DRAWN BY: SAR  
CHECKED BY: ZYF  
SCALE: As Shown  
DATE: Jan. 23, 2008  
P.L.O. No.: 3050  
SHEET No.: 3 OF 7

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

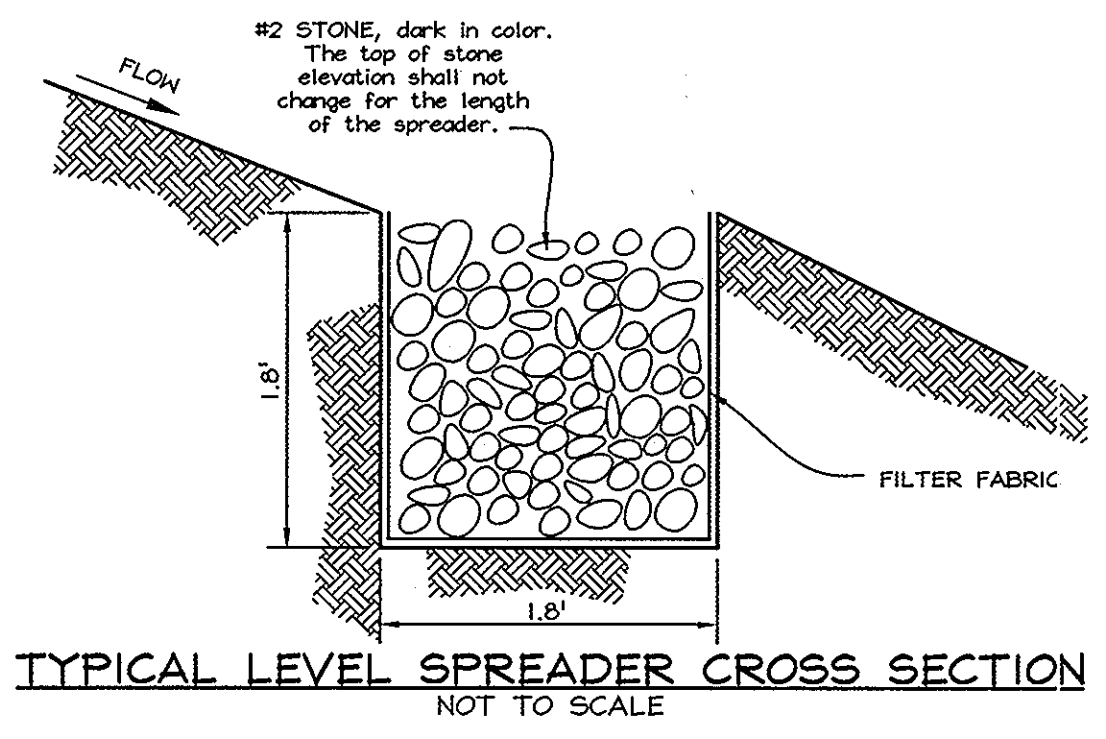
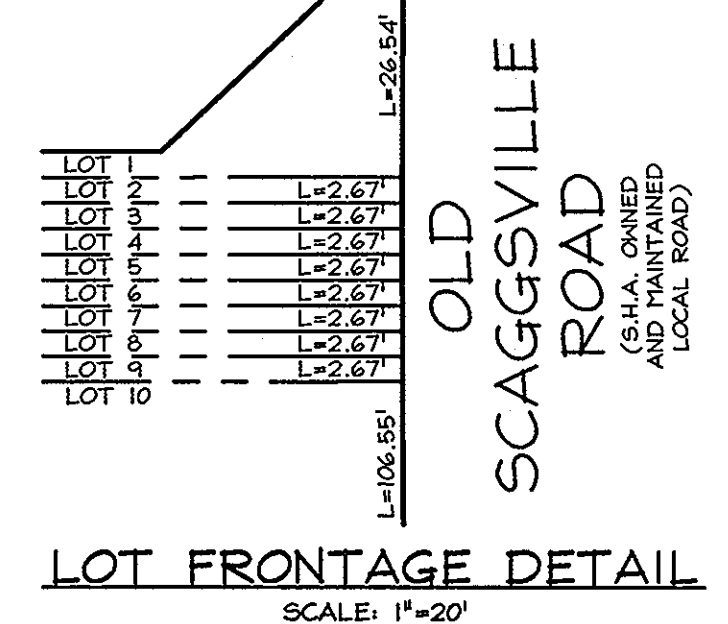
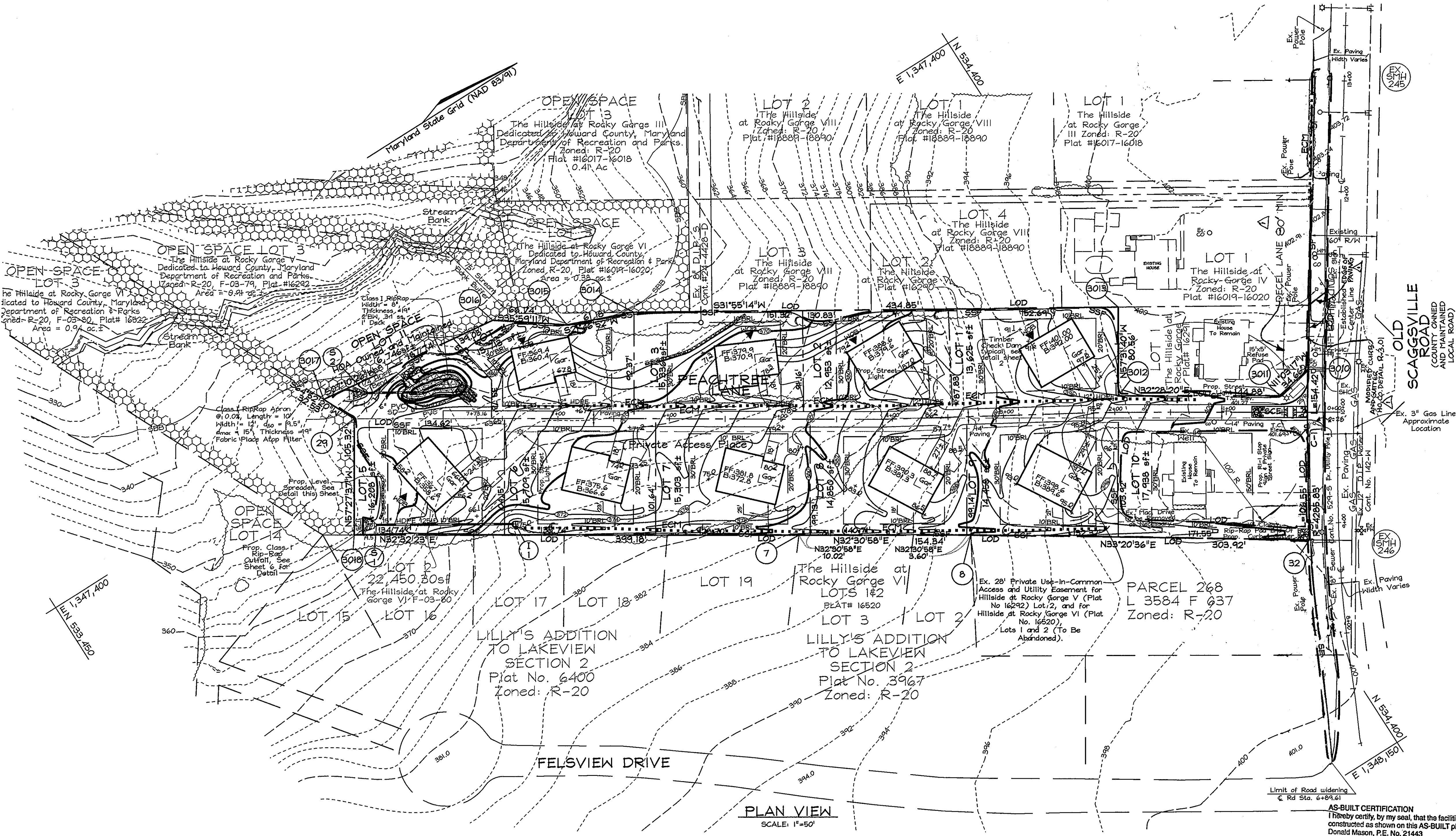
CHIEF, DIVISION OF LAND DEVELOPMENT DATE 2/11/08  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

CHIEF, BUREAU OF HIGHWAYS DATE 2-5-09

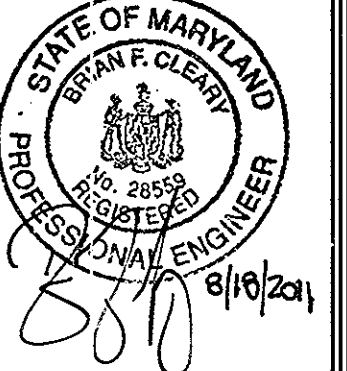


SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Belle silt loam	D
BaB2	Belleville silt loam, 1 to 5 percent slopes, moderately eroded	C
C1C3	Chillum gravelly loam, 5 to 10 percent slopes, severely eroded	C
CmB2	Chillum silt loam, 1 to 5 percent slopes, moderately eroded	C
M1D3	Manor loam, 15 to 25 percent slopes, severely eroded	B

LEGEND	
Existing Contour	--- 382
Proposed Contour	--- +82.53
Spot Elevation	○ 382
Direction of Flow	→
Soil Line	---
Existing Trees to Remain	☁
Stabilized Construction Entrance	▨
Super Silt Fence	--- SF --- SF ---
Silt Fence	--- SF --- SF ---
Limit of Disturbance	--- LOD ---
Erosion Control Matting	••••• EC1
Walk Out Basement	↕
Suicide Arrow	↖
Proposed Check Dam	⊕
Proposed Street Light	☆



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 28559, Expiration Date: 7-22-13  
FOR REVISIONS BY BENCH MARK ENGINEERING INC. ONLY, 1, 2.



AS-BUILT CERTIFICATION  
I hereby certify, by my seal, that the facilities shown on this plan were constructed as shown on this AS-BUILT plan.  
Donald Mason, P.E. No. 21443 Date 11-4-13

NOTE: THE FOR THE SAKE OF VISUAL CLARITY, SOME FEATURES ARE NOT SHOWN ON THIS PLAN SHEET. FOR EASEMENTS AND OTHER INFORMATION NOT SHOWN, REFER TO SHEETS 2, 3, AND 7.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
Cindy Hamilton 2/1/08  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DEVELOPER'S CERTIFICATE  
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT 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 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.  
B D B 1/23/08  
SIGNATURE OF DEVELOPER DATE

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.  
Zacharia Y. Fisch 1/23/08  
SIGNATURE OF ENGINEER DATE  
ZACHARIA Y. FISCH

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS  
USDA-NATURAL RESOURCES CONSERVATION SERVICE DATE  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
John R. Robertson 1/31/08  
HOWARD SOIL CONSERVATION DISTRICT DATE

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 21443, Expiration Date: 12-21-14



OWNER/DEVELOPER  
SCAGGSVILLE ROAD INVESTMENTS LLD  
c/o Brian D. Boy, (member)  
1675 Norfolk Avenue  
Laurel, Maryland 20723  
Tel.: (410)792-2565 Fax: (410)792-2567

NO.	DATE	REVISION	BY
2	11-14-11	REMOVE ACCELERATION LANE	BET
1	8-17-11	REVISE LIMIT OF DECEL LANE	BET
NO. 1		REVISION	BY

GRADING AND SEDIMENT & EROSION CONTROL PLAN  
THE HILLSIDE AT ROCKY GORGE VII  
LOTS 1 THRU 10 AND OPEN SPACE LOT 11  
A RESUBDIVISION OF LOT 2, THE HILLSIDE AT ROCKY GORGE V  
PLAT #16290-16292 AND LOTS 1 & 2, THE HILLSIDE AT ROCKY GORGE VI  
PLAT 16520-16522  
TAX MAP 46 GRID 18 PARCELS 92 and 149  
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



FSH Associates  
Engineers Planners Surveyors  
8339 Howard Lane, Elkridge, MD 21075  
Tel: 410-567-5200 Fax: 410-796-1562  
E-mail: info@fsh.com

DESIGN BY: MT  
DRAWN BY: SAR  
CHECKED BY: ZYF  
SCALE: As Shown  
DATE: Jan 23, 2008  
P.L.O. No.: 3050  
SHEET No. 4 OF 7

**2.0 STANDARDS AND SPECIFICATIONS FOR SOIL**

**Definition**  
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

**Purpose**  
To provide a suitable soil medium for vegetable 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**  
1. 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 limestone is not feasible.

2. 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 can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.

2. Topsoil Specifications - Soil to be used as topsoil must meet the following:  
i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of textures and materials and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1" and 1/2" in diameter.

ii. Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, 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 per acre (1,000 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.

3. For sites having disturbed areas under 5 acres:  
i. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I - Vegetative Stabilization and Materials.  
ii. For sites having disturbed areas over 5 acres:  
a. On soil meeting topsoil specifications, obtain test results relating fertilizer and lime amendments required to bring the soil into compliance with the following:  
i. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.  
ii. 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 seed or seed shall be placed on soil which has been treated with lime amendments required to be used until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic 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.  
i. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I - Vegetative Stabilization and Materials.

V. Topsoil Application  
1. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Gully 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 water pockets.

iv. Topsoil shall not be placed while the topsoil or 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.

**SEDIMENT CONTROL NOTES**  
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 any construction (31B-1055).  
2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.  
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter 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, 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, and revisions thereto, and temporary seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 3.60 Acres  
Area Disturbed 3.00 Acres  
Area to be roofed or paved 0.00 Acres  
Area to be vegetatively stabilized 2.10 Acres  
Total Cut 3,000 CY#  
Total Fill 3,000 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 shall be back-filled and stabilized within one working day, whichever is shorter.  
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.  
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

Table B.3.1. Material Specifications for Sand Filters

Material	Specification/Test Method	Size	Notes
Sand	Clean AASHTO-M-6 or ASTM-C-35 concrete sand	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone #10 are not acceptable. No calcium carbonate or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.
Leaf Compost	ash content: < 1% pH range: 5.2 to 4.9 loose bulk density 0.12 to 0.15 g/cc	n/a	The material must be weed-free, hemic peat, shredded, uncompacted, uniform, and clean.
Geotextile fabric	AASHTO-M-43 ASTM-D-4833 (Puncture Strength-125 lb.) ASTM-D-4632 (Tensile Strength-300 lb.)	0.035" thick equivalent opening size of #80 sieve	Must maintain 125 gpm per sq. ft. flow rate. Note: a 4" pea gravel layer may be substituted for geotextiles meant to "separate" sand filter layers.
Impermeable Liner (If required)	ASTM-D-4833 (Thickness) ASTM-D-412 (Tensile Strength-1,100 lb., elongation 200%) ASTM-D-624 (Tear Resistance-150 lb./in.) ASTM-D-471 (Water Absorption: +8 to -2% mass)	30 mil. thickness	Liner to be ultraviolet resistant. A geotextile fabric should be used to protect the liner from puncture.
Underdrain Piping	1/2" - 3/4" rigid pipe Type 26 or AASHTO-M-278	4" - 6" rigid schedule 40 PVC or SDR35	3/8" perf. @ 6" on center; 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes.
Concrete (Cast-in-Place)	MSHA Standards and Specs. Section 902 Title No. 3, f = 3500 psi, normal weight, air-entrained, re-inforcing to meet ASTM-615-60	n/a	On-site testing of Poured-in-Place concrete required: 28 day strength and slump test; all concrete design (Cast-in-Place or Pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland. SEE ABOVE NOTE
Concrete (Pre-Cast)	pre Pre-Cast Manufacturer	n/a	SEE ABOVE NOTE
Non-Rebar Steel	ASTM A-36	n/a	Structural Steel to be Hot-Dipped Galvanized ASTM-A-123

**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 the following schedule: Apply 2 tons per acre dolomitic limestone (92 lbs/1000 s.f.) And 900 lbs. / acre (15 lbs./1000s.f.) of 10-10-10 before seeding. Harrow or disc into upper 3 in. Of soil.

**SEEDING:** Apply a mixture of Turf Type Tall fescue (80%) and Hard Fescue (20%) in accordance with seeding dates and rates shown in the Permanent Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below and apply permanent seeding when within proper seeding dates.

**MULCHING:** Immediately following seeding, apply a uniform 1-2 in. Deep layer of un-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 Tons/acre if a mulch anchoring tool is used).  
Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. Of wood fibre/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agro-Tack), DCA-70, Petrosel and other approved agents may be used at rates recommended by the manufacturers.

**SEEDING:** Apply a mixture of Turf Type Tall fescue (80%) and Hard Fescue (20%) in accordance with seeding dates and rates shown in the Permanent Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below and apply permanent seeding when within proper seeding dates.

**MULCHING:** Immediately following seeding, apply a uniform 1-2 in. Deep layer of un-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 Tons/acre if a mulch anchoring tool is used).  
Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. Of wood fibre/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agro-Tack), DCA-70, Petrosel and other approved agents may be used at rates recommended by the manufacturers.

**Permanent Seeding Summary**

Seed Mixture (Hardiness Zone 7a and 6b)		Fertilizer Rate (10-20-20)		Lime Rate
No.	Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depths
10	Tall Fescue (80%) Hard Fescue (20%)	120 30	3/1-5/15 8/15-11/15	0.5 in. 1/2 in.

**Temporary Seeding Summary**

Seed Mixture (Hardiness Zone 6a and 7a)		Fertilizer Rate (10-10-10)		Lime Rate
No.	Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depths
2	Barley or Rye plus Foxtail Millet	150 lbs (3.5lbs/1000sqft)	2/1-11/30 (7a) 3/15-10/31 (6a)	1/2 in. 1/2 in.

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.  
i. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section I - Vegetative Stabilization and Materials.

V. Topsoil Application  
1. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Gully 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 water pockets.

iv. Topsoil shall not be placed while the topsoil or 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.

**SEDIMENT CONTROL NOTES**  
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 any construction (31B-1055).  
2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.  
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter 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, 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, and revisions thereto, and temporary seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 3.60 Acres  
Area Disturbed 3.00 Acres  
Area to be roofed or paved 0.00 Acres  
Area to be vegetatively stabilized 2.10 Acres  
Total Cut 3,000 CY#  
Total Fill 3,000 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 shall be back-filled and stabilized within one working day, whichever is shorter.  
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.  
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

**SEDIMENT CONTROL NOTES**  
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 any construction (31B-1055).  
2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.  
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter 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, 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, and revisions thereto, and temporary seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 3.60 Acres  
Area Disturbed 3.00 Acres  
Area to be roofed or paved 0.00 Acres  
Area to be vegetatively stabilized 2.10 Acres  
Total Cut 3,000 CY#  
Total Fill 3,000 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 shall be back-filled and stabilized within one working day, whichever is shorter.  
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.  
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

**SEDIMENT CONTROL NOTES**  
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 any construction (31B-1055).  
2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.  
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter 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, 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, and revisions thereto, and temporary seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 3.60 Acres  
Area Disturbed 3.00 Acres  
Area to be roofed or paved 0.00 Acres  
Area to be vegetatively stabilized 2.10 Acres  
Total Cut 3,000 CY#  
Total Fill 3,000 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 shall be back-filled and stabilized within one working day, whichever is shorter.  
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.  
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

**SEDIMENT CONTROL NOTES**  
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 any construction (31B-1055).  
2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.  
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter 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, 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, and revisions thereto, and temporary seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 3.60 Acres  
Area Disturbed 3.00 Acres  
Area to be roofed or paved 0.00 Acres  
Area to be vegetatively stabilized 2.10 Acres  
Total Cut 3,000 CY#  
Total Fill 3,000 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 shall be back-filled and stabilized within one working day, whichever is shorter.  
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.  
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

**SEDIMENT CONTROL NOTES**  
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 any construction (31B-1055).  
2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.  
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter 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, 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, and revisions thereto, and temporary seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 3.60 Acres  
Area Disturbed 3.00 Acres  
Area to be roofed or paved 0.00 Acres  
Area to be vegetatively stabilized 2.10 Acres  
Total Cut 3,000 CY#  
Total Fill 3,000 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 shall be back-filled and stabilized within one working day, whichever is shorter.  
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.  
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

**SEDIMENT CONTROL NOTES**  
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 any construction (31B-1055).  
2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.  
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter 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, 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, and revisions thereto, and temporary seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 3.60 Acres  
Area Disturbed 3.00 Acres  
Area to be roofed or paved 0.00 Acres  
Area to be vegetatively stabilized 2.10 Acres  
Total Cut 3,000 CY#  
Total Fill 3,000 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 shall be back-filled and stabilized within one working day, whichever is shorter.  
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.  
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

**SEDIMENT CONTROL NOTES**  
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 any construction (31B-1055).  
2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.  
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter 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, 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, and revisions thereto, and temporary seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 3.60 Acres  
Area Disturbed 3.00 Acres  
Area to be roofed or paved 0.00 Acres  
Area to be vegetatively stabilized 2.10 Acres  
Total Cut 3,000 CY#  
Total Fill 3,000 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 shall be back-filled and stabilized within one working day, whichever is shorter.  
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.  
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

**SEDIMENT CONTROL NOTES**  
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 any construction (31B-1055).  
2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.  
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter 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, 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, and revisions thereto, and temporary seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 3.60 Acres  
Area Disturbed 3.00 Acres  
Area to be roofed or paved 0.00 Acres  
Area to be vegetatively stabilized 2.10 Acres  
Total Cut 3,000 CY#  
Total Fill 3,000 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 shall be back-filled and stabilized within one working day, whichever is shorter.  
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.  
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

**SEDIMENT CONTROL NOTES**  
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 any construction (31B-1055).  
2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.  
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter 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, 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, and revisions thereto, and temporary seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall 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 3.60 Acres  
Area Disturbed 3.00 Acres  
Area to be roofed or paved 0.00 Acres  
Area to be vegetatively stabilized 2.10 Acres  
Total Cut 3,000 CY#  
Total Fill 3,000 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 shall be back-filled and stabilized within one working day, whichever is shorter.  
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.  
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

**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:** In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone (92 lbs/1000 s.f.) And 900 lbs. / acre (15 lbs./1000s.f.) of 10-10-10 before seeding. Harrow or disc into upper 3 in. Of soil.

**SEEDING:** Apply the Maryland State Highway approved seed mixture of Barley or Rye plus Foxtail Millet in accordance with seeding dates and rates shown in the Temporary Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below.

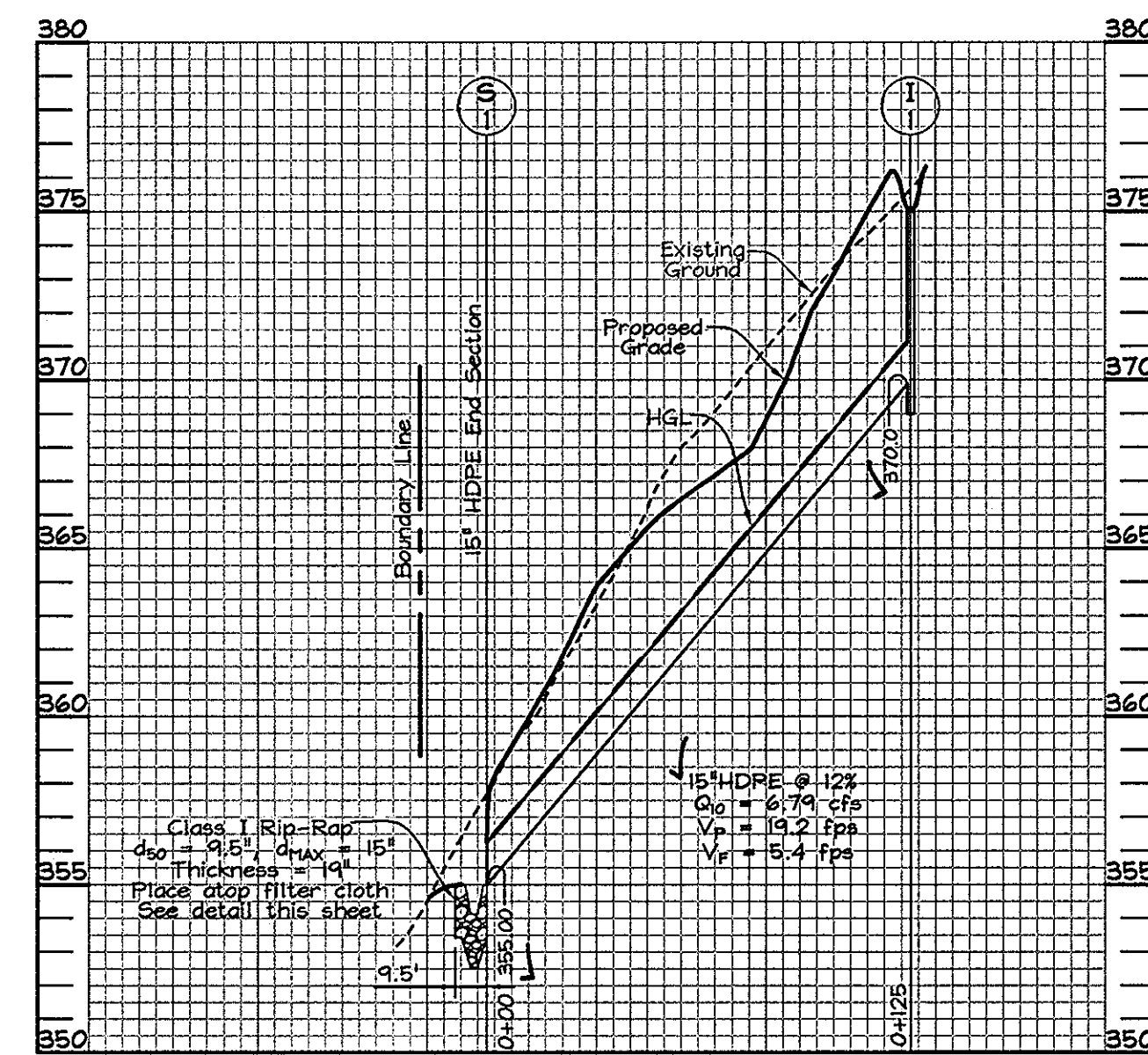
**MULCHING:** Immediately following seeding, apply a uniform 1-2 in. Deep layer of un-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 Tons/acre if a mulch anchoring tool is used).  
Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. Of wood fibre/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agro-Tack), DCA-70, Petrosel and other approved agents may be used at rates recommended by the manufacturers.

**SEEDING:** Apply the Maryland State Highway approved seed mixture of Barley or Rye plus Foxtail Millet in accordance with seeding dates and rates shown in the Temporary Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below.

**MULCHING:** Immediately following seeding, apply a uniform 1-2 in. Deep layer of un-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 Tons/acre if a mulch anchoring tool is used).  
Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. Of wood fibre/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agro-Tack), DCA-70, Petrosel and other approved agents may be used at rates recommended by the manufacturers.

**Permanent Seeding Summary**

Seed Mixture (Hardiness Zone 7a and 6b)		Fertilizer Rate (10-20-20)		Lime Rate
---	--	----------------------------	--	-----------



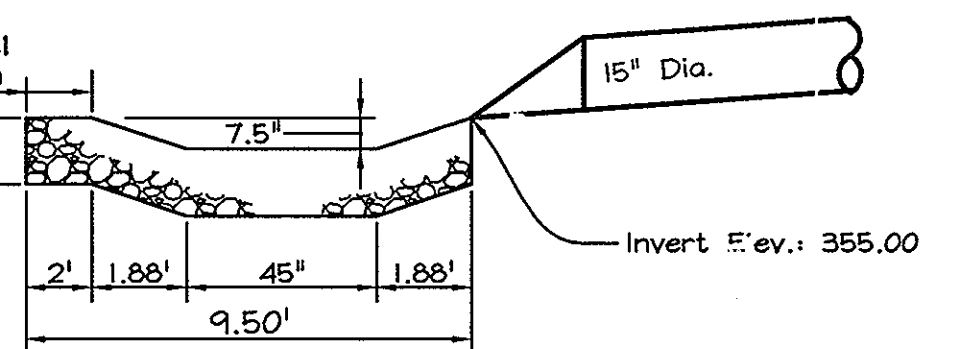
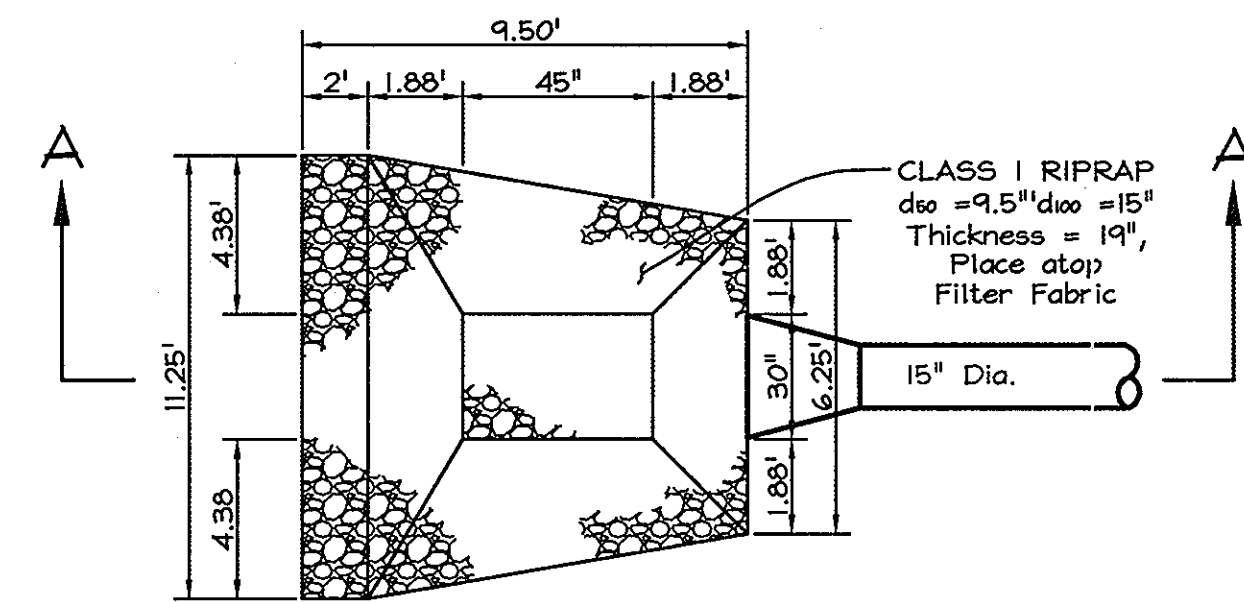
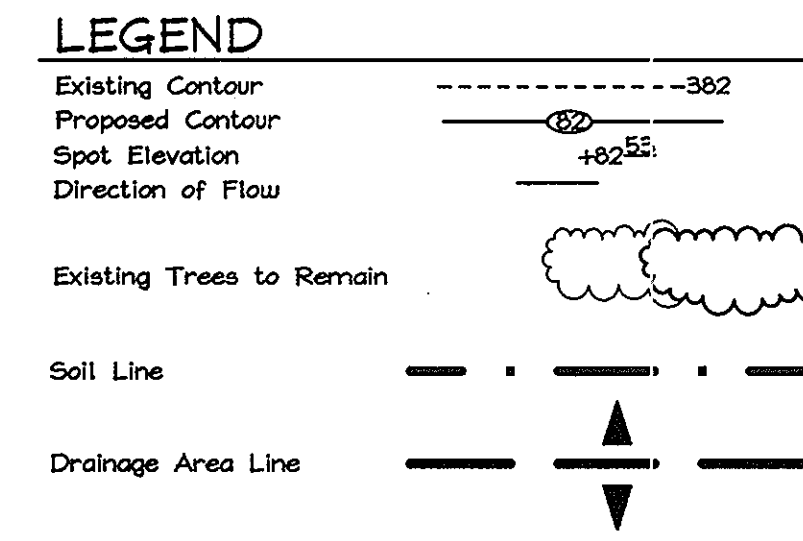
**STORM DRAIN PROFILE**

Scale: Horiz. - 1"=50'  
Vert. - 1"=5'

STRUCTURE SCHEDULE							
NO.	TYPE	LOCATION		TOP ELEV.	INV. IN.	INV. OUT.	REMARKS
I-1	Type 'S' Inlet	N 533,836.56	E 1,347,561.65	374.37	375.00	-	D-4.22
S-1	15" HDPE End Section	N 533,730.29	E 1,347,495.83	-	355.00	-	15" HDPE End Sec.

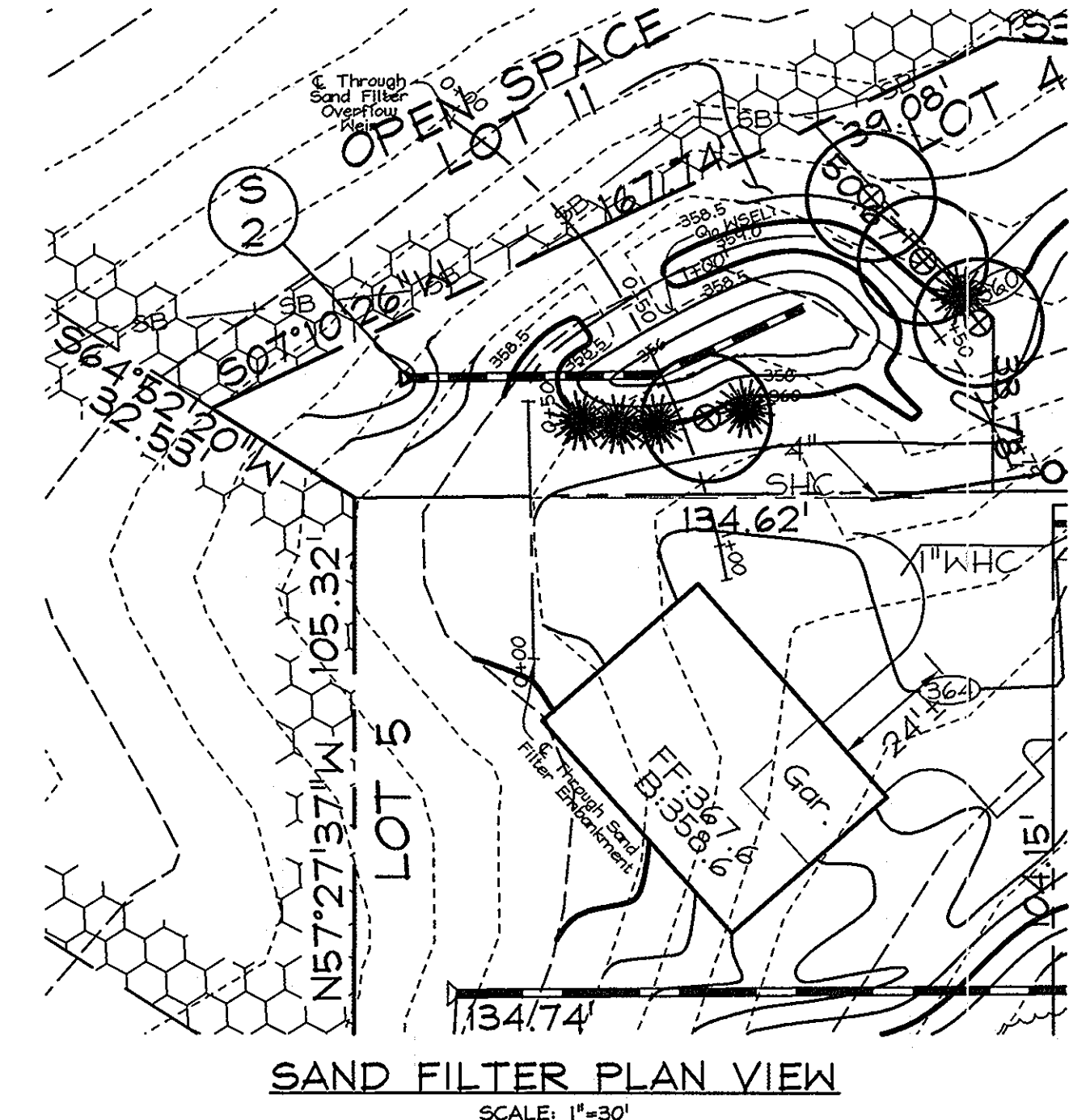
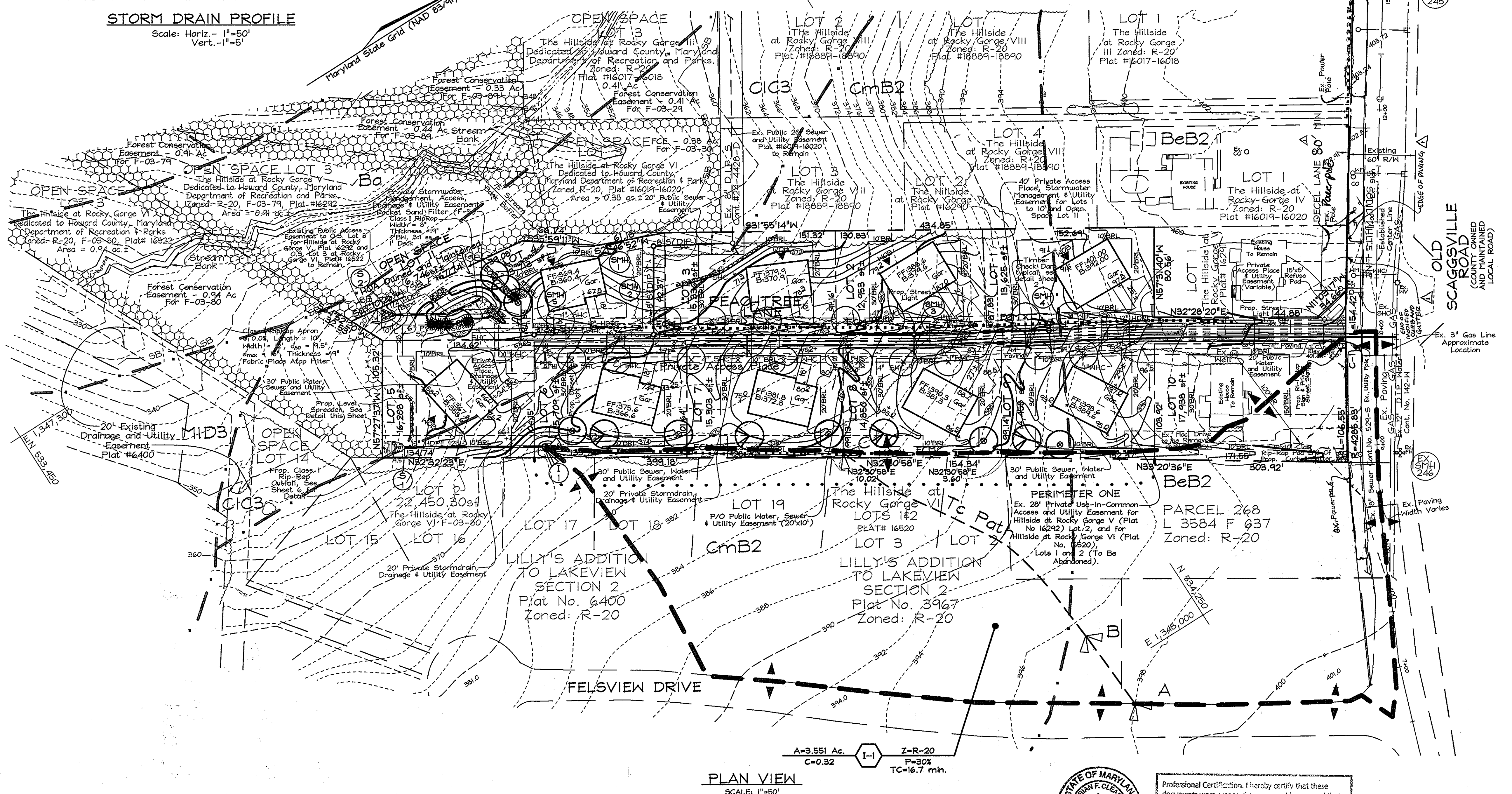
SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Balle silt loam	D
BeB2	Beltville silt loam, 1 to 5 percent slopes, moderately eroded	C
CiC3	Chillum gravelly loam, 5 to 10 percent slopes, severely eroded	C
CmB2	Chillum silt loam, 1 to 5 percent slopes, moderately eroded	C
MiD3	Minor loam, 15 to 25 percent slopes, severely eroded	B

PIPE SCHEDULE		
SIZE	TYPE	LENGTH
15"	HDPE	125 LF



**SECTION 'A'-A'**  
NOT TO SCALE

**S-1 SCOUR HOLE OUTFALL DETAIL**  
NOT TO SCALE



**SAND FILTER PLAN VIEW**  
SCALE: 1"=30'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Cindy Harris* 2/11/08  
CHIEF, DIVISION OF LAND DEVELOPMENT & DATE

*Alan Mason* 2/11/08  
CHIEF, DEVELOPMENT ENGINEERING DIVISION & DATE

AS-BUILT CERTIFICATION  
I hereby certify, by my seal, that the facilities shown on this plan were constructed as shown on this AS-BUILT plan.  
Donald Mason, P.E. No. 21443 Date 11-4-13



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 21417 Expiration Date: 12-21-14



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 28559 Expiration Date: 7-22-13  
FOR REVISIONS BY BENCHMARK ENGINEERING, INC. ONLY: 1,2

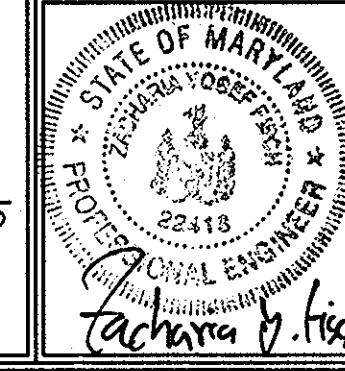
OWNER/DEVELOPER  
SCAGGSVILLE ROAD INVESTMENTS LTD  
c/o Brian D. Boy, (member)  
4635 Norfolk Avenue  
Laurel, Maryland 20723  
Tel.: (410)792-2565 Fax: (410)792-2567

2	11-14-11	REMOVE ACCELERATION LANE	BET
1	9-17-11	REVISE LIMITS OF DECEL LANE	BEZ
NO	DATE	REVISION	BY

**STORMDRAIN DRAINAGE AREA MAP AND STORMDRAIN PROFILES**

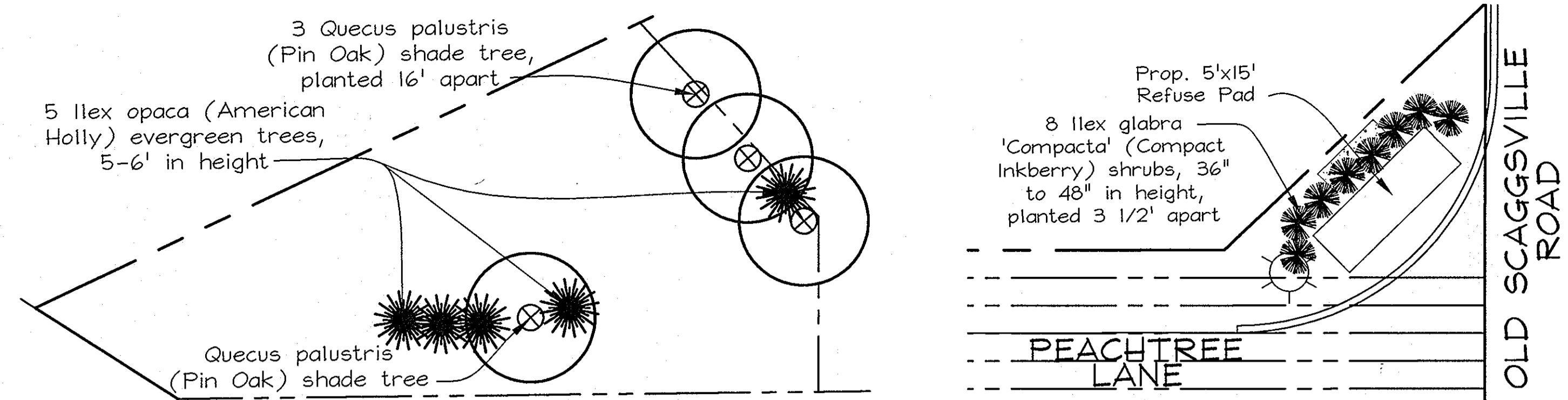
**THE HILLSIDE AT ROCKY GORGE VII**  
LOTS 1 THRU 10 AND OPEN SPACE LOT II  
A RESUBDIVISION OF LOT 2, THE HILLSIDE AT ROCKY GORGE V  
PLAT #16290-16292 AND LOTS 1 & 2, THE HILLSIDE AT ROCKY GORGE VI  
PLAT 16520-16522

TAX MAP 46 GRID 18 PARCELS 92 and 149  
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

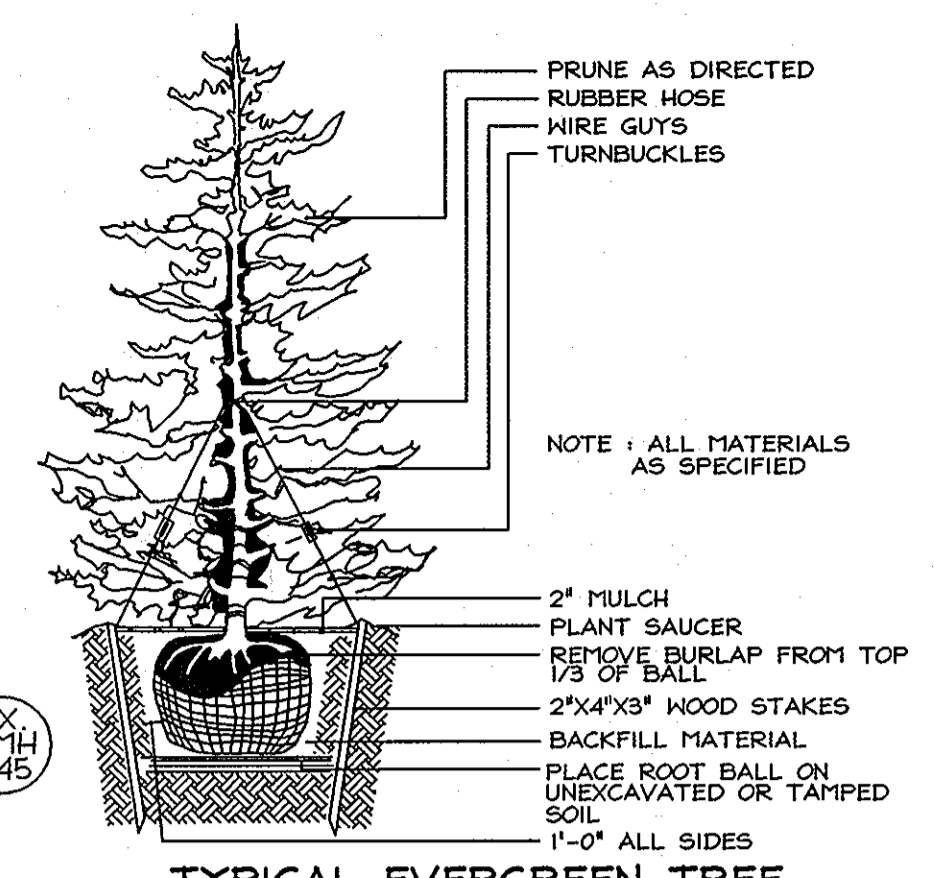


**FSH Associates**  
Engineers Planners Surveyors  
6339 Howard Lane, Elkridge, MD 21075  
Tel: 410-567-5200 Fax: 410-796-1562  
E-mail: info@fsh.net

DESIGN BY: MT  
DRAWN BY: SAR  
CHECKED BY: ZYF  
SCALE: As Shown  
DATE: Jan 23, 2008  
P.L.O. No.: 3050  
SHEET No.: 6 OF 7



NOTE: THE FOR THE SAKE OF VISUAL CLARITY, SOME FEATURES ARE NOT SHOWN ON THIS PLAN SHEET. FOR EASEMENTS AND OTHER INFORMATION NOT SHOWN, REFER TO SHEETS 2, 3, AND 4.



**LEGEND**

Existing Contour: - - - - -382

Proposed Contour: - - - - -+252

Spot Elevation: 1

Direction of Flow: →

Soil Lines: ---

Existing Trees to Remain: [Symbol]

Walk Out Basement: [Symbol]

Suave Arrow: [Symbol]

Street Tree: [Symbol]

Perimeter Tree: [Symbol]

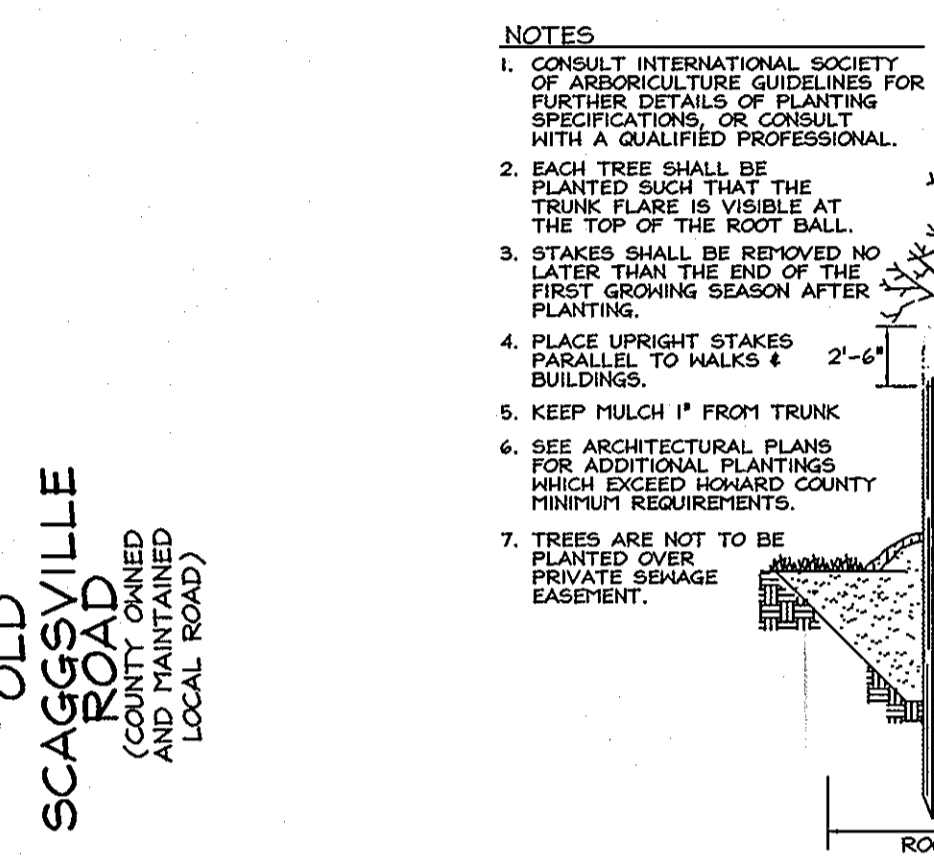
Shrub Planting: [Symbol]

Proposed Check Dam: [Symbol]

Proposed Street Light: [Symbol]

TYPICAL EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

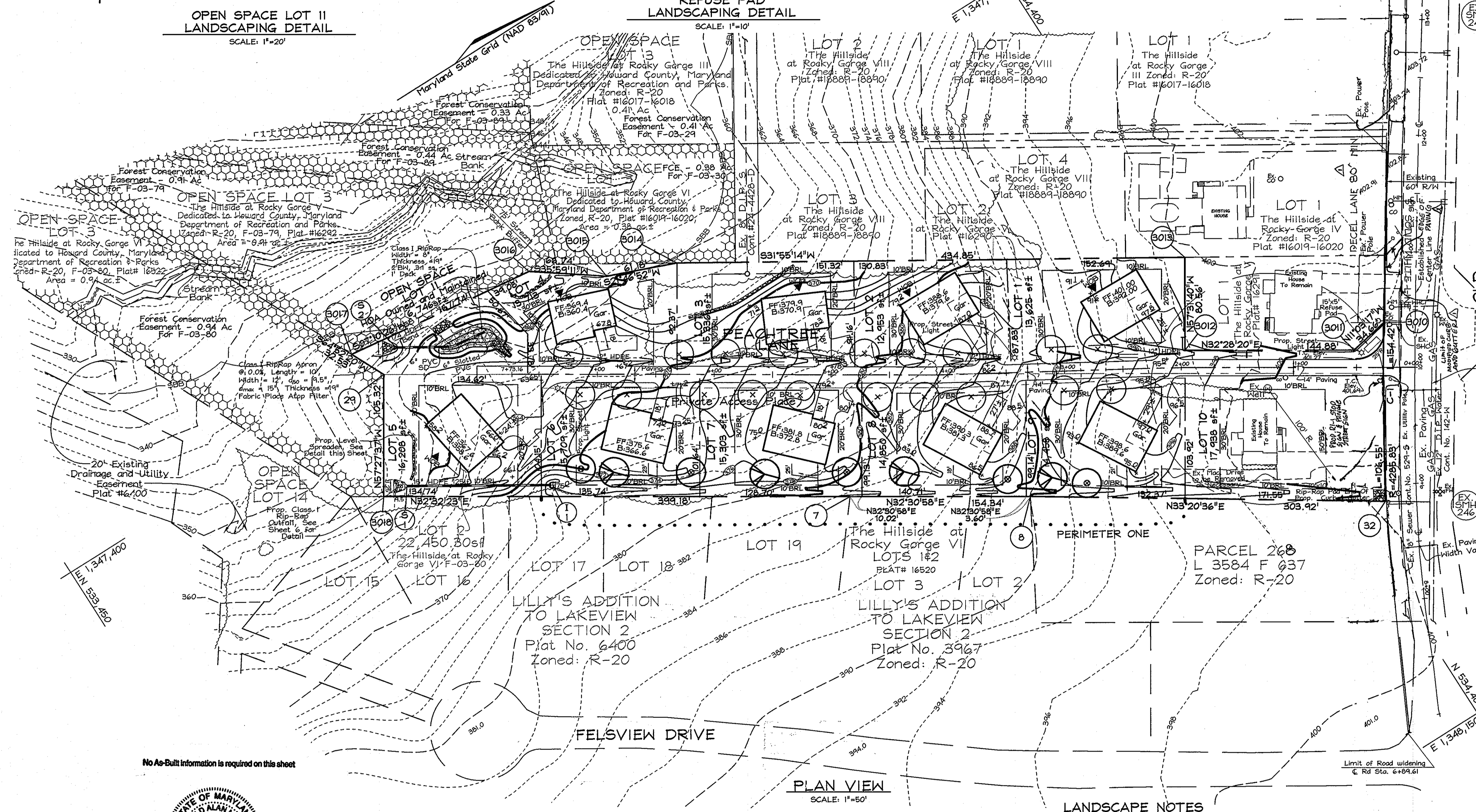


- NOTES**
1. CONSULT INTERNATIONAL SOCIETY OF ARBORICULTURE GUIDELINES FOR FURTHER DETAILS OF PLANTING SPECIFICATIONS, OR CONSULT WITH A QUALIFIED PROFESSIONAL.
  2. EACH TREE SHALL BE PLANTED SUCH THAT THE TRUNK PLANE IS VISIBLE AT THE TOP OF THE ROOT BALL.
  3. STAKES SHALL BE REMOVED NO LATER THAN THE END OF THE FIRST GROWING SEASON AFTER PLANTING.
  4. PLACE UPRIGHT STAKES PARALLEL TO WALKS & 2'-6" BUILDINGS.
  5. KEEP MULCH 1" FROM TRUNK
  6. SEE ARCHITECTURAL PLANS FOR ADDITIONAL PLANTING WHICH EXCEED HOWARD COUNTY THINIRP REQUIREMENTS.
  7. TREES ARE NOT TO BE PLANTED OVER PRIVATE SEWAGE EASEMENT.

TYPICAL TREE PLANTING AND STAKING

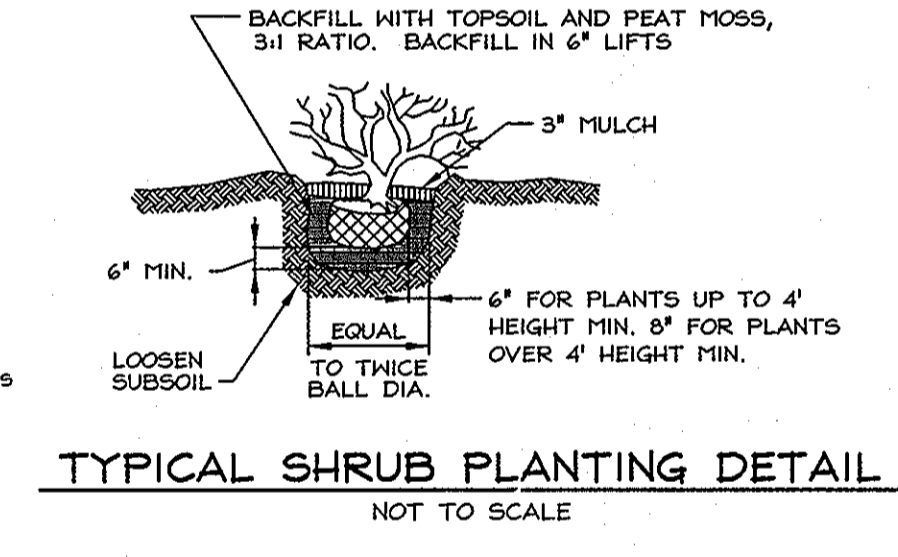
DECIDUOUS TREES UP TO 2-1/2" CALIFER

NOT TO SCALE



**SCHEDULE A PERIMETER LANDSCAPE EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES
Perimeter/Frontage Designation	A
Linear Feet of Roadway	551'
Frontage/Perimeter	No
Credit for Existing Vegetation (Yes, No, Linear Feet Describe below if needed)	No
Credit for Moll, Fence, Berm, or Other Planting (Yes, No, Linear Feet Describe below if needed)	No
Number of Plants Required	1:60 9
Shade Trees	-
Evergreen Trees	-
Shrubs	-
Number of Plants Provided	9
Shade Trees	-
Evergreen Trees	-
Other Trees (2:1 Substitution)	-
Shrubs (10:1 Substitution)	-
(Describe Plant Substitution Credits Below if needed)	-



TYPICAL SHRUB PLANTING DETAIL

NOT TO SCALE

**STREET TREE SCHEDULE**

STREET NAME	LF REQUIRED	TREES REQUIRED	PROVIDED
PEACHTREE LANE	773'	(1:40) = 19	19

**STREET TREE PLANTING SCHEDULE**

KEY	QUAN.	BOTANICAL/COMMON NAME	SIZE	NOTE
(X)	19	<i>Tilia americana</i> 'Redmond' 'Redmond' American Linden	2 1/2"-3" Cal.	B & B

**SWM PLANTING NOTES**

Within Facility - Bottom to 358.0 - 897 s.f.  
To be planted with Red Top (*Agrostis alba*) at 5 lbs / 1000 s.f.

Remaining area around the stormwater management facility will be stabilized as per the permanent seeding notes, sheet 5 of 6, and vegetated as per the landscape buffer requirements; this sheet.

Entire area to be prepared as per the permanent seeding notes (see sheet 5 of 6).

**SCHEDULE D : STORMWATER MANAGEMENT AREA LANDSCAPING**

Linear Feet of Perimeter	320 lf - 125 lf* = 195 lf
Credit for Existing Vegetation (No, Yes and Linear Feet)	No
Credit for other Landscaping (No, Yes and %)	No
Number of Trees Required	
Shade Trees 1:50	4
Evergreen Trees 1:40	5
Number of Trees Provided	
Shade Trees	4
Evergreen Trees	5
Other Trees (2:1 Substitution)	0 Trees (0 Substitution Trees)

\* Alternative compliance requested, see Landscape Notes, this sheet.

**LANDSCAPE SCHEDULE**

KEY	QUAN.	BOTANICAL/COMMON NAME	SIZE	NOTE
(O)	9	<i>Quercus palustris</i> Pin Oak	2 1/2"-3" Cal.	B & B
(X)	4	<i>Liquidambar styraciflua</i> American Sweetgum	2 1/2"-3" Cal.	B & B
(S)	5	<i>Ilex opaca</i> American Holly	5-6' Height	B&B
(C)	8	<i>Ilex glabra</i> 'Compacta' Compact Inkberry	36-48" Height	Cont.

- LANDSCAPE NOTES**
1. At the time of installation, 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 Landscaping 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 are made to applicable plans and certificates.
  2. The owner, tenant, and/or their agents shall be responsible for maintenance of the required landscaping, including both plant materials and berms, fences and walls. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.
  3. Financial surety for the required landscaping, refuse pad screening and the private access place street tree planting will be posted as part of the Developer's Agreement under this plat, F-07-77 in the amount of \$10,590.00 (32 shade trees @ \$330.00 each, 5 evergreen trees @ \$150.00 each, and 8 shrubs @ \$30 each).
  4. The developer is claiming Alternative Compliance for the SWM Perimeter abutting the adjoining Open Space lots for Hillside at Rocky Gorge V and VI. The existing stream and forest on these open space lots have been contained in a Forest Conservation Easement and create an existing buffer between the proposed facility and the nearest residential properties.

**DEVELOPER'S BUILDER'S CERTIFICATE**

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

R. D. Bz 1/25/18 DATE

Professional Certification: I hereby certify that these documents were prepared or supervised by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 28559 Expiration Date: 7-22-13

FOR REVISIONS BY BELCH MARK ENGINEERING, INC. ONLY.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: Cindy Hunter 2/1/18 DATE

Chief, Development Engineering Division: [Signature] 2/1/18 DATE

**PERIMETER PLANTINGS, REFUSE PAD SCREENING AND STREET TREE PLANTINGS PLAN**

**THE HILLSIDE AT ROCKY GORGE VII**  
LOTS 1 THRU 10 AND OPEN SPACE LOT II  
A REBUDIVISION OF LOT 2, THE HILLSIDE AT ROCKY GORGE VI  
PLAT #16290-16292 AND LOTS 1 & 2, THE HILLSIDE AT ROCKY GORGE VI  
PLAT 16520-16522

TAX MAP 46 GRID 18 PARCELS 32 & 149  
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**FSH Associates**  
Engineers Planners Surveyors  
6339 Howard Lane, Elkridge, MD 21075  
Tel: 410-567-5200 Fax: 410-796-1562  
E-mail: info@fsh.com

DESIGN BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
SCALE: As Shown  
DATE: Jan. 23, 2008  
W.O. No.: 3050  
SHEET No.: 7 OF 7

**OWNER/DEVELOPER**  
SCAGGSVILLE ROAD INVESTMENTS LLD  
c/o Brian D. Boy, (member)  
9675 Norfolk Avenue  
Laurel, Maryland 20723  
Tel.: (410)792-2565 Fax: (410)792-2567

NO.	DATE	REVISION	BY
2	11-14-11	REMOVE ACCELERATION LANE	BET
1	8-17-11	REVISE LIMITS FOR DECEL. LANE	BET