



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) 10/20/04 TEST TIME \_\_\_\_\_ A# 521534

AGENCY REVIEW: \_\_\_\_\_ DATE 10/12/2004

TAX ID # 05-437229 DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

- CHECK AS NEEDED:
- CONSTRUCT NEW SEPTIC SYSTEM(S)
  - REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
  - REPLACE AN EXISTING SEPTIC SYSTEM

- CHECK AS NEEDED:
- NEW STRUCTURE(S)
  - ADDITION TO AN EXISTING STRUCTURE
  - REPLACE AN EXISTING STRUCTURE

- CHECK ONE:
- CREATE NEW LOT(S)
  - BUILD ON AN EXISTING LOT IN A SUBDIVISION
  - BUILD ON AN EXISTING PARCEL OF RECORD

- IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?
- YES
  - NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 5 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE UNKNOWN IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Columbia Builders, Inc., Attn: Jim Greenfield

DAYTIME PHONE: 410-730-3940 CELL \_\_\_\_\_ FAX 410-992-3020

MAILING ADDRESS P.O. Box 999 Ellicott City Maryland 21044  
STREET CITY/TOWN STATE ZIP

APPLICANT Same as above

DAYTIME PHONE \_\_\_\_\_ CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_ STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME Buckskin Ridge LOT NO. 39

PROPERTY ADDRESS 4324 Buckskin Wood Drive Ellicott City, Md. 21042  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 22 GRID 20 PARCEL(S) 74, 77, 203 & 543 PROPOSED LOT SIZE 52,567 sq. ft.

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

Jim Greenfield  
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM  
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1071 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH



Howard County Health Department

bleif nosre mil uttA, eni, eteburS orimulo' ( Columbia Builders, Inc. Attn Jim Greenfield  
0202 - 599-01A  
44012

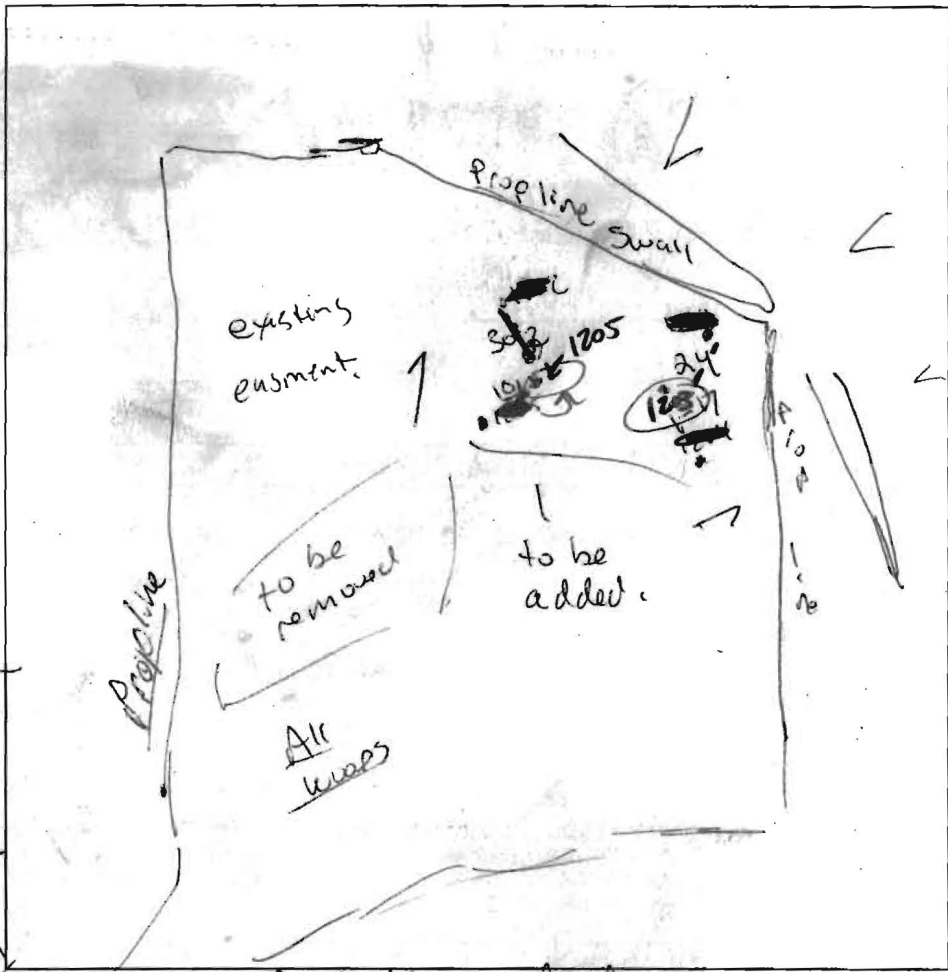
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H

REMARKS \_\_\_\_\_

SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_

TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_



①  
 Brown 1  
 1 orange brown  
 ↓  
 SCL  
 light red / orange brown  
 SCL  
 w/ 5-10% clay frags  
 orange / mica brown SCL  
 10% sparkle  
 clay frags  
 13

1/2 drive way  
 main street

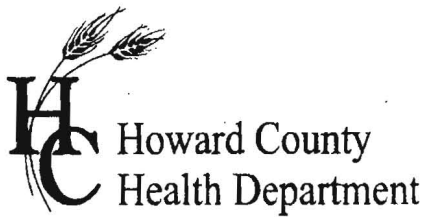
Buckskin woods dr.

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
10/20	1203	5' 13"	10:36 <sup>30</sup>	10:44	10:56	12	P
10/20	1205	4 1/2' 12'	10:21	10:22 <sup>10</sup>	10:25 <sup>10</sup>	2:50	P
	1205	10' from stake	1205	+ 30' from	1207		

②  
 Brown 1  
 orange brown  
 1-4 clay frags  
 ↓  
 SCL  
 Orange SCL  
 brown  
 5-10% sparkle  
 orange brown  
 SCL 15  
 10-15% clay frags  
 sup: lite

100% roots

REMARKS Due Between Steaks. / Note 1203 laser than 12"  
 SANITARIAN Pete A. Yonick BACKHOE K. Hatfield OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_



"RIR"  
**APPLICATION**  
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- BUILD ON AN EXISTING LOT IN A SUBDIVISION
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IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

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- NO

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PROPERTY OWNER(S) \_\_\_\_\_

DAYTIME PHONE \_\_\_\_\_ CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  
STREET CITY/TOWN STATE ZIP

APPLICANT \_\_\_\_\_

DAYTIME PHONE \_\_\_\_\_ CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME \_\_\_\_\_ LOT NO. \_\_\_\_\_

PROPERTY ADDRESS \_\_\_\_\_  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) \_\_\_\_\_ GRID \_\_\_\_\_ PARCEL(S) \_\_\_\_\_ PROPOSED LOT SIZE \_\_\_\_\_

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TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

**SEDIMENT CONTROL NOTES**

- 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 (S-C).
- 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 STATE AND FEDERAL STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERMITTED SEDIMENT CONTROL STRUCTURES, DICES, PERMITS, BARRIERS AND ALL SLOPES GREATER THAN 2% IN 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAP/DAMNS SHALL BE FENCED AND MARKING SIGNS POSTED AROUND THEIR PERIMETER BY ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. FOR PERMANENT SEEDING (S.C. 20, 500 SEC.) TEMPORARY SEEDING (S.C. 50, AND MULCHING (S.C. 20), TEMPORARY STABILIZATION WITH MULCH CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
  - TOTAL AREA OF SITE: 1.277 ACRES
  - AREA DISTURBED: 0.469 ACRES
  - AREA TO BE ROOFED OR PAVED: 0.149 ACRES
  - AREA TO BE VEGETATIVELY STABILIZED: 0.323 ACRES
  - TOTAL CUT: 1.015 CU.YDS.
  - TOTAL FILL: 304 CU.YDS.
  - OFFSITE WASTE/ROBBER AREA LOCATION: N/A

**TEMPORARY SEEDING NOTES**

- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION:**  
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:**  
APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 LBS./1,000 SQ.FT.)
- SEEDING:**  
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 1 1/2 BUSHEL PER ANNUAL RYE (12 LBS./1,000 SQ.FT.) FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 1 LBS./ACRE OF WEEPING LOVEGRASS (17 LBS./1,000 SQ.FT.) FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOI.
- MULCHING:**  
APPLY 1 TO 2 TONS PER ACRE (70 TO 140 LBS./1,000 SQ.FT.) OF UNMULCHED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL, OR 200 GALLONS PER ACRE (5 GALLON/SQ.FT.) OF ENHANCED ASPHALT ON FLAT AREAS ON SLOPES 8 FEET OR HIGHER. USE 340 GALLONS PER ACRE (8 GALLON/SQ.FT.) FOR ANCHORING.
- REFER TO THE 1998 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**PERMANENT SEEDING NOTES**

- ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:
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LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS:**  
APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1,000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (4 LBS./1,000 SQ.FT.) BEFORE SEEDING. HARBOR OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 LIQUID FERTILIZER (9 LBS./1,000 SQ.FT.) AND 500 LBS. PER ACRE (5 LBS./1,000 SQ.FT.) OF 10-20-20 FERTILIZER.
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- MAINTENANCE:**  
INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
- \* FOR PUBLIC PONDS SUBSTITUTE CHEMICAL CROWNWEED AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

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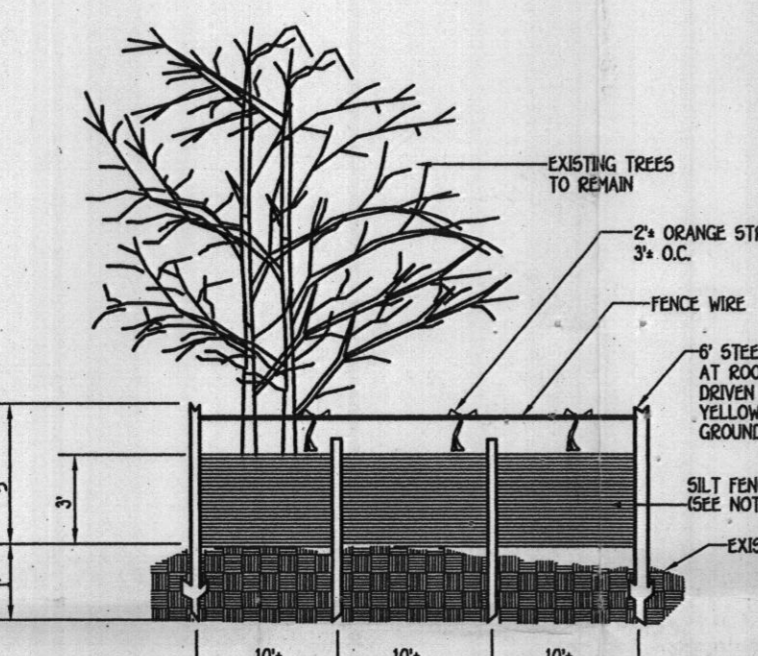
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- Silt fence to be heeled into the soil.
- Wire, snow fence, etc. for tree protection only.
- Boundaries of Retention Area will be established as part of the forest management plan and approved by the Forest Service.
- Boundaries of Retention Area should be staked and flagged prior to installing device.
- Avoid root damage when placing anchor posts.
- Device should be properly maintained throughout construction.
- Protection signs are also required, see Figure C-4.
- Locate fence outside the Critical Root Zone.

**SILT FENCE & TREE PROTECTION**

NOT TO SCALE

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT.
- INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN.
- CLEAR AND GRUB TO LIMITS OF DISTURBANCE AND MASS GRADE TO SUN-BASE.
- INSTALL TEMPORARY SEEDING.
- CONSTRUCT BUILDINGS.
- FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE.
- REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR.

Rev. 11-9-04 Rotate house and regrade. Show areas of septic easement to be added and abandon. Add Perc. certification notes and signature blocks.

THIS DOCUMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.

APPROVED: *John M. Robertson* 4/26/04  
HOWARD COUNTY CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*Jim Myers* 4/26/04  
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

**DEVELOPER'S CERTIFICATE**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY CONSERVATION DISTRICT."

*James Greenfield* 4-14-04  
SIGNATURE OF DEVELOPER DATE

**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 CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT."

*Earl D. Collins* 4-14-04  
DATE

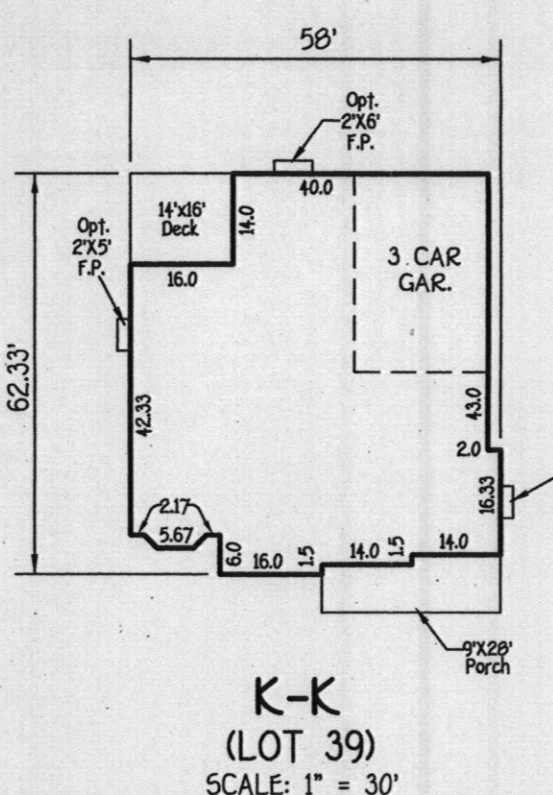
**PERC CERTIFICATION PLAT, SITE DEVELOPMENT, SEDIMENT/EROSION CONTROL PLAN, NOTES & DETAILS**

**BUCKSKIN RIDGE LOT 39**

ZONED RR-DEO PLAT NO. 15705  
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=30' DATE: NOV, 2004

**LEGEND**

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
+362.5	SPOT ELEVATION
-5/TP-5/TP	SILT FENCE & TREE PROTECTION
-5F-5F	SUPER SILT FENCE
---	PROPOSED WALKOUT
LOD	LIMITS OF DISTURBANCE
○	EXISTING STREET TREES FROM F-01-191



**STABILIZED CONSTRUCTION ENTRANCE - 2**

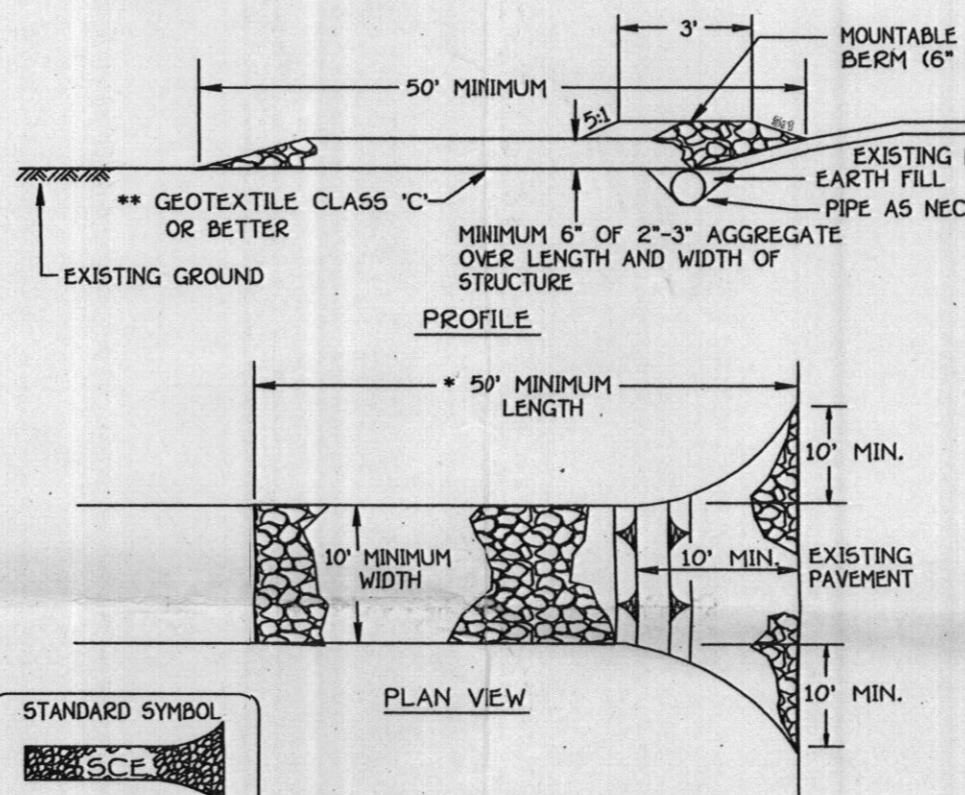
NOT TO SCALE

**BUILDER/DEVELOPER**  
COLUMBIA BUILDERS  
P.O. BOX 999  
COLUMBIA, MARYLAND 21044  
410-730-3100

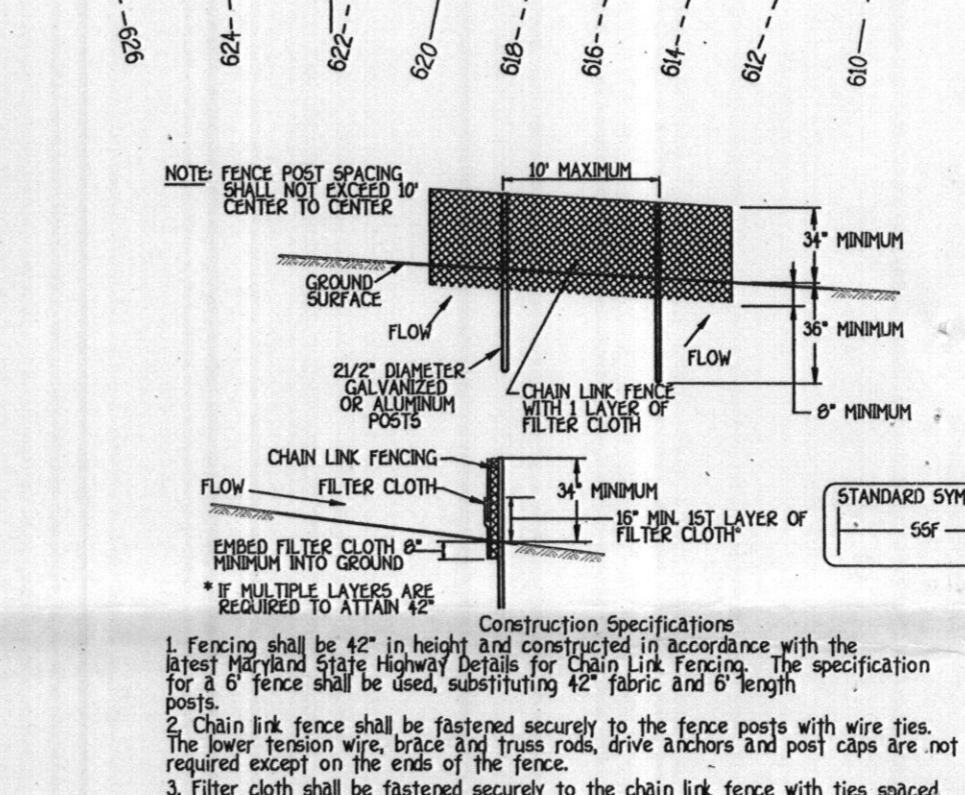
**SUPER SILT FENCE**

NOT TO SCALE

Slope	Silt Fence Length (Minimum)	Silt Fence Length (Maximum)
0% - 2%	100 feet	1000 feet
3% - 5%	150 feet	1500 feet
6% - 8%	200 feet	2000 feet
9% - 12%	250 feet	2500 feet
13% - 15%	300 feet	3000 feet
16% - 20%	350 feet	3500 feet
21% +	400 feet	4000 feet



- Length - minimum of 50' (30' for single residence lot).
- Width - 10' minimum, should be filled at the existing road to provide a turning radius.
- 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.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 1' deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 54 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.



- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' height.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 6" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buildup removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:
 

Tensile Strength	50 lb/in (min)	Test Method	500
Tensile Modulus	10 lb/in (min)	Test Method	500
Flow Rate	10 gal/ft (min)	Test Method	500
Filtering Efficiency	75% (min)	Test Method	200

**NOTE:**  
THE LOT SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REGULATED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.

This area designates a private easement as required by the Maryland State Dept. of the Environment for individual Sewerage Disposal. Improvements of any nature in this area are restricted until public sewerage is available. The easement shall become null and void upon connection to a public sewerage system. The county health officer shall have the authority to grant adjustments to the private sewer easement. Recordation of a modified sewerage easement shall not be necessary. 6194 sq. ft. field to remain 4800 sq. to be added Total Septa Est 10,934 sq. ft.

4800 sq. to be added  
4800 sq. to be added  
Perc holes (Pass)  
Perc holes (Failed)

- GENERAL NOTES**
- SUBJECT PROPERTY ZONED: RR-DEO
  - TOTAL AREA OF PROPERTY: 92,567 SQ.FT.
  - SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT REVIEW.
  - LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
  - CONTRACTOR/BUILDER TO VERIFY ELEVATION IN THE FIELD BEFORE BEGINNING ANY CONSTRUCTION.
  - FIELD RUN TOPOGRAPHIC SURVEY DONE BY CLARK, FINEPROCK & SACKETT, INC.
  - NO WETLANDS CURRENTLY EXIST ON THE PROPERTY.
  - DRIVEWAY CULVERTS SHALL BE CONSTRUCTED AT SITE DEVELOPMENT PLAN STAGE IN ACCORDANCE WITH APPROVED CULVERT SIZE SHOWN ON F-01-191.
  - STORMWATER MANAGEMENT IS PROVIDED UNDER F-01-191.
  - PERC HOLES #1203-1205 field located by F.C.C., Inc 10-29-04.
  - Number of bedrooms = 5

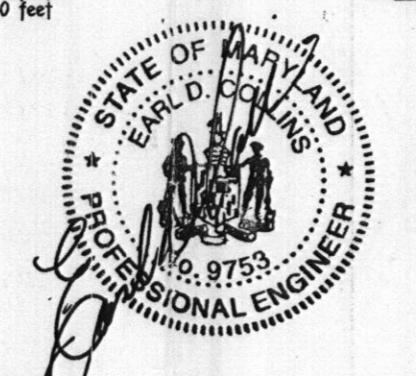
**PERC CERTIFICATION**

I certify that the locations shown hereon are based on field locations done under my direct supervision and are true and correct to the best of my professional knowledge and belief.

*Terrill A. Fisher* 11/16/04  
Terrill A. Fisher, Professional Land Surveyor No. 10682  
PROFESSIONAL LAND SURVEYOR

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

*Robert J. Walker* 11/16/04  
COUNTY HEALTH OFFICER DATE



G.P. 04-88