

APPLICATION

PERCOLATION TESTING

A 515 958

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2840

DISTRICT _____

DATE 7/26/01

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Melissa Owens

ADDRESS 1065 Arbor Hill Rd PHONE _____
Staunton, VA 24401

AGENT OR PROSPECTIVE BUYER SECURITY DEVELOPMENT, LLC

ADDRESS P.O. BOX 417 ELLICOTT CITY MD 21041 PHONE 410-465-4844

PROPERTY LOCATION:

SUBDIVISION JACKSON PROPERTY LOT NO. 6

ROAD AND DESCRIPTION BURNT WOODS ROAD EAST OF SNOW CHIEF ROAD

TAX MAP 22 PARCEL # 2

SIZE OF LOT 1 AC ± TYPE BLDG. SINGLE FAMILY DETACHED
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

[Signature]
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

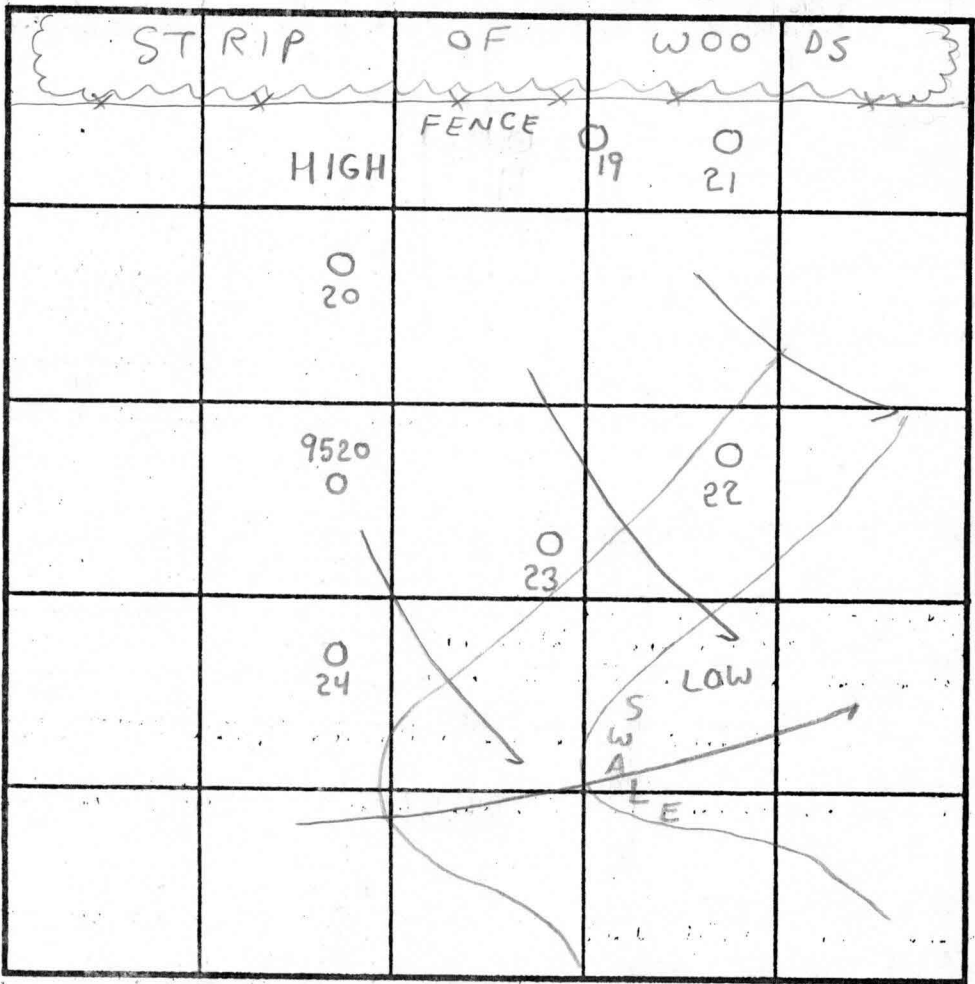
515958

NO 1 TO SCALE

COUNTY #

SOIL PROFILE

19/20
 beige-brn silt lm
 tan-brn powdery micaceous loam
 0-5% decayed parent material
 12'



SOIL PROFILE

24
 SEE 19/20

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME		
			START	STOP	START	STOP			
9/23/02	19	4' T / 12' V	11:33am	11:35am	11:35am	11:37am	2min	OK	
	20	4' T / 12' V	11:23am	11:25am	11:25am	11:27am	2min	OK	
	21	4' T / 12' V	11:39am	11:41am	11:41am	11:43am	2min	OK	
	22	2' 10" T / 12' V	11:46am	11:47am	11:47am	11:50am	3min	OK	
	23	3' T / 12' V	11:17am	11:19am	11:19am	11:21am	2min	OK	
	24	4' T / 12' 6" V	11:11am	11:13am	11:13am	11:15am	2min	OK	
4/15/98	9520	(OBSERVED PREVIOUSLY BY GLEN SAVAGE)							OK

REMARKS

TYPE OF SOIL Chester
 TESTED BY SRK John Goodman = Backhoe ALSO PRESENT Clark Sperry
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 2min TRENCH WIDTH 3'
 INLET DEPTH 2 MAXIMUM BOTTOM DEPTH 4 SQ. FT/BEDROOM 180

11' 5-10% ROCK

22/23

SEE 19/20

THE ENGINEER
 CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Alfred L. Hensard
 SIGNATURE OF ENGINEER
 12/14/06
 DATE

DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS PLAN AND THAT ANY NECESSARY PERMITS, LICENSES, AND APPROVALS WILL BE OBTAINED FROM THE APPROPRIATE AGENCIES. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS NECESSARY.

Alfred L. Hensard
 SIGNATURE OF DEVELOPER
 12/14/06
 DATE

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

JSDA - NATURAL RESOURCE CONSERVATION SERVICE DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

STANDARDS AND SPECIFICATIONS FOR TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS

I. Topsoil salvaged from the existing site may be used provided that it meets the standards set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the soil survey published by USGS-SCS in cooperation with Maryland Agricultural Experiment Station.

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

1. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand, or other soils may be used if recommended by a geologist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a result of construction activities. Topsoil shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, silt, rocks, or other materials larger than 1 1/2" diameter.

II. Topsoil must be free of plants or plant parts such as bermuda grass, quack grass, Johnson grass, nutcracker, poison ivy, thistle, or others as specified.

III. Where the subsoil is either high acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-5 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Limestone shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

II. For sites having disturbed areas under 5 acres:

I. Place topsoil (if required) and apply soil amendments as specified in 2.0.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

IV. For sites having disturbed areas over 5 acres:

I. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:

a) pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.

b) Organic content of topsoil shall be not less than 1.5 percent by weight.

c) Topsoil having soluble salt content greater than 500 parts per million shall not be used.

d) No sod or seed shall be placed on soil which has been treated with soil sterilants or soil chemicals used for weed control in the past (14 days min) to permit dispersal of phytotoxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified geologist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

II. Place topsoil (if required) and apply soil amendments as specified in 2.0.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

I. When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment traps and basins.

II. Grades on the areas to be topsoiled which have been previously established, shall be maintained, albeit 4"-6" higher in elevation.

III. Topsoil shall be uniformly distributed in a 4"-6" layer and lightly compacted to a minimum thickness of 4". Seeding shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil.

IV. 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.

V. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, or soil scientist and approved by the appropriate approval authority, otherwise be detrimental to proper grading and seeded preparation.

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

L. Composted sludge material for use as a soil conditioner for sites having disturbed areas under 5 acres shall be subject to immediate further disturbance where a permanent long-lived vegetative cover is required.

a) Composted sludge shall be supplied by, or originates from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.

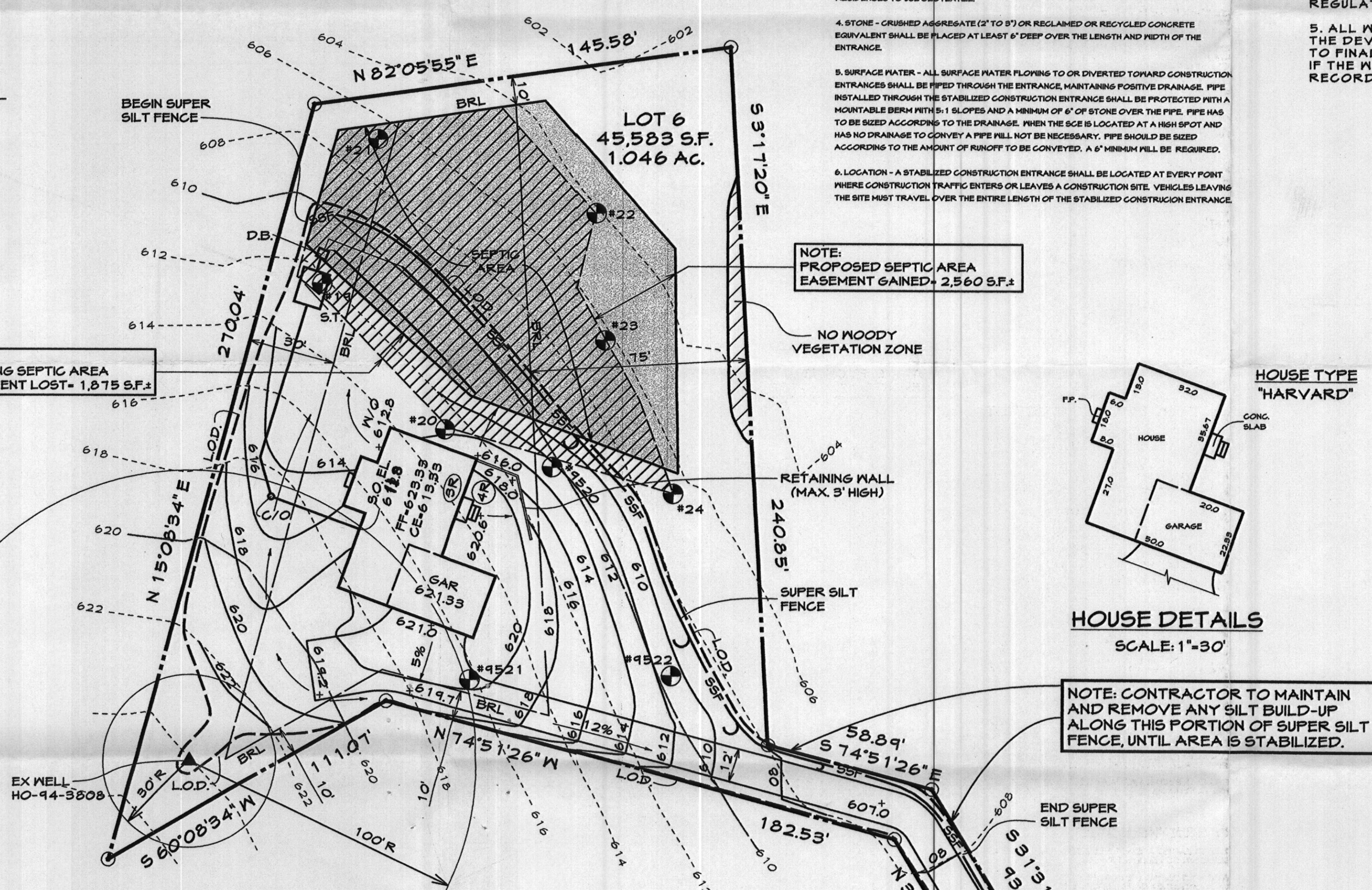
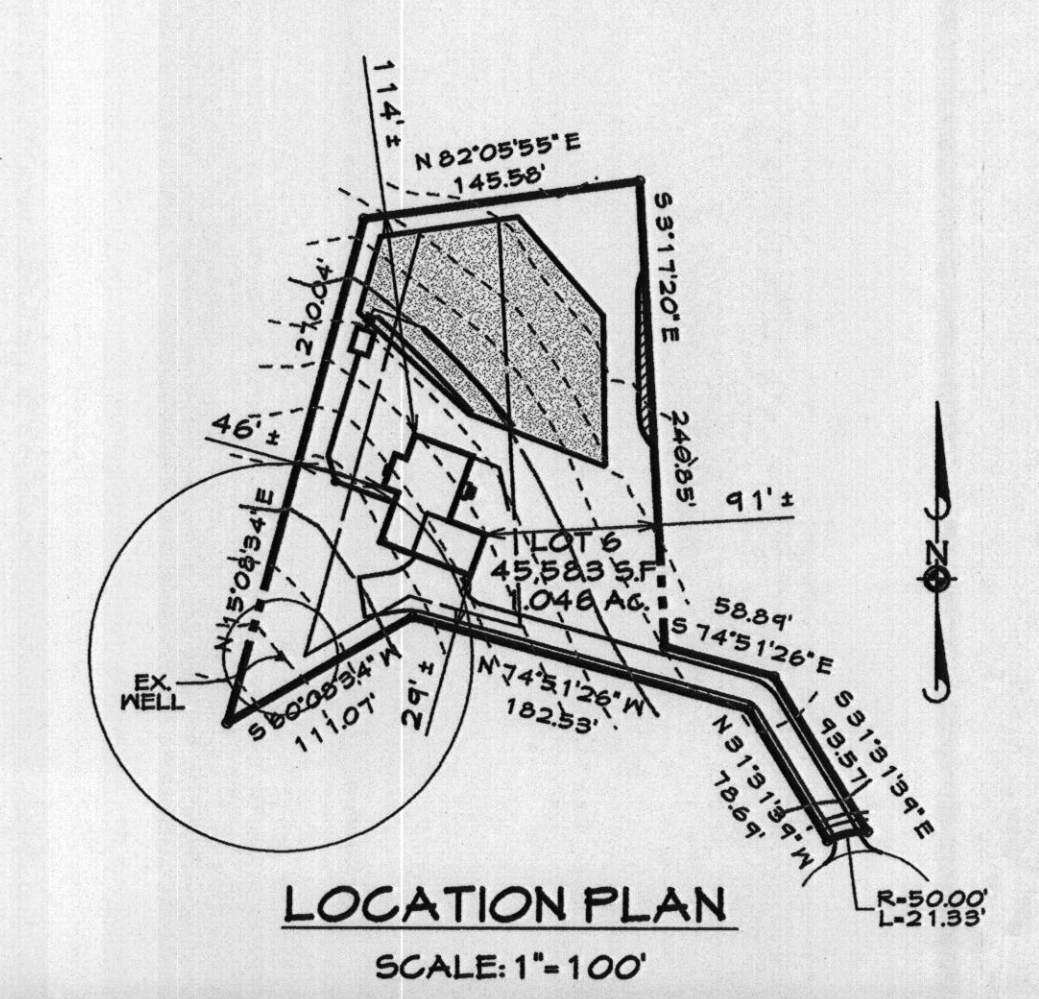
b) Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.5 percent potassium and have a pH of 7.0 to 8.0. If a compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.

c) Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.

II. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT
2. INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN. (1 DAY)
3. PERFORM NECESSARY GRADING AND STABILIZE THE SITE. BUILD HOUSE (6 MOS.)
4. AFTER THE SITE IS STABILIZED AND PERMISSION IS GRANTED FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS. (2 DAYS)



Standard Sediment Control Notes

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (12/18/95).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 5:1. (D) 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 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, for permanent seeding (Sec. 5.1) and (Sec. 5.4.1) temporary seeding (Sec. 5.0) and mulching (Sec. 5.2). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:
 Total Area of Site 1.046 Acres 45,583 SF.
 Area Disturbed 0.6 Acres 26,500 SF.
 Area to be roofed or paved 0.144 Acres 6,485 SF.
 Area to be vegetatively stabilized 0.461 Acres 20,608 SF.
 Total Gallons 500 Gal.
 Office waste/borrow area location.
8. Any sediment control practice which is disturbed by grading activity for placement of utilities, must be repaired on the same day of disturbance.
9. Additional sediment control must be provided, if deemed necessary by the Howard County 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 final approval by the inspection agency is made.
11. Tranches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each workday, whichever is shorter.

HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS REQUIRED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOCATED:

SOIL AMENDMENTS IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1,000 SQ FT) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1,000 SQ FT) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT THE TIME OF SEEDING, APPLY 400 LBS. PER ACRE 90-0-0 UREAFORM FERTILIZER (4 LBS./1,000 SQ. FT.)
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (42 LBS./1,000 SQ FT) AND 1,000 LBS. PER ACRE 10-10-10 FERTILIZER (25 LBS./1,000 SQ FT) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1,000 SQ. FT.) OF KENTUCKY 311 TALL FESCUE FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. KENTUCKY 311 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.5 LBS./1,000 SQ FT) OF HEIFER LOG ROLLERS, DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28. PROTECT SITE BY OPTION (1) 4-5 TONS PER ACRE OF WELLS-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOIL OPTION (2) - SEED WITH 60 LBS./ACRE KENTUCKY 311 TALL FESCUE AND MULCH WITH 2 TON/ACRE WELLS-ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 140 LBS./1,000 SQ FT) OF UNROTTED PINE STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALLON PER ACRE (5 GAL/1,000 SQ FT) OF ENHANCED ASPHALT ON FLAT AREAS OR 5 GALLONS PER ACRE (10 GAL/1,000 SQ FT) USE 3-4 GALLONS PER ACRE (6 GAL/1,000 SQ FT) FOR ANCHORS.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING IF NOT PREVIOUSLY LOCATED.

SOIL AMENDMENTS APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1,000 SQ FT).

SEEDING - FOR PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.1 LBS./1,000 SQ FT) FOR THE PERIOD OF MAY 1 THROUGH AUGUST 14, SEED WITH 5 LBS. PER ACRE OF PEEPER'S LOW-BURSTS (0.1 LBS./1,000 SQ FT) FOR THE PERIOD OF NOVEMBER 16 THROUGH NOVEMBER 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOIL.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 140 LBS./1,000 SQ FT) OF UNROTTED PINE STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALLON PER ACRE (5 GAL/1,000 SQ FT) OF ENHANCED ASPHALT ON FLAT AREAS OR 5 GALLONS PER ACRE (10 GAL/1,000 SQ FT) USE 3-4 GALLONS PER ACRE (6 GAL/1,000 SQ FT) FOR ANCHORS.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

SEPTIC SYSTEM NOTES

1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT NO. 2. PROPOSED 1250 GALLON SEPTIC TANK.
 3. A. FIRST FLOOR ELEVATION: 628.9
 B. BASEMENT ELEVATION: 613.5
 C. FIRST FLOOR FINISH AT HOUSE: 618.8
 D. INVERT AT SEPTIC TANK: 610.3
 E. INVERT AT DISTRIBUTION BOX: 604.7
 F. PROPOSED GRADE OVER SEPTIC TANK: 612.5
 G. INVERT AT DISTRIBUTION BOX: 611.0
 H. EXISTING GROUND OVER DISTRIBUTION BOX: 611.0
 4. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
 5. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.

BUILDER TO VERIFY AVAILABILITY OF BASEMENT SEWER SERVICE PRIOR TO DRYING OUT STAKEOUT.

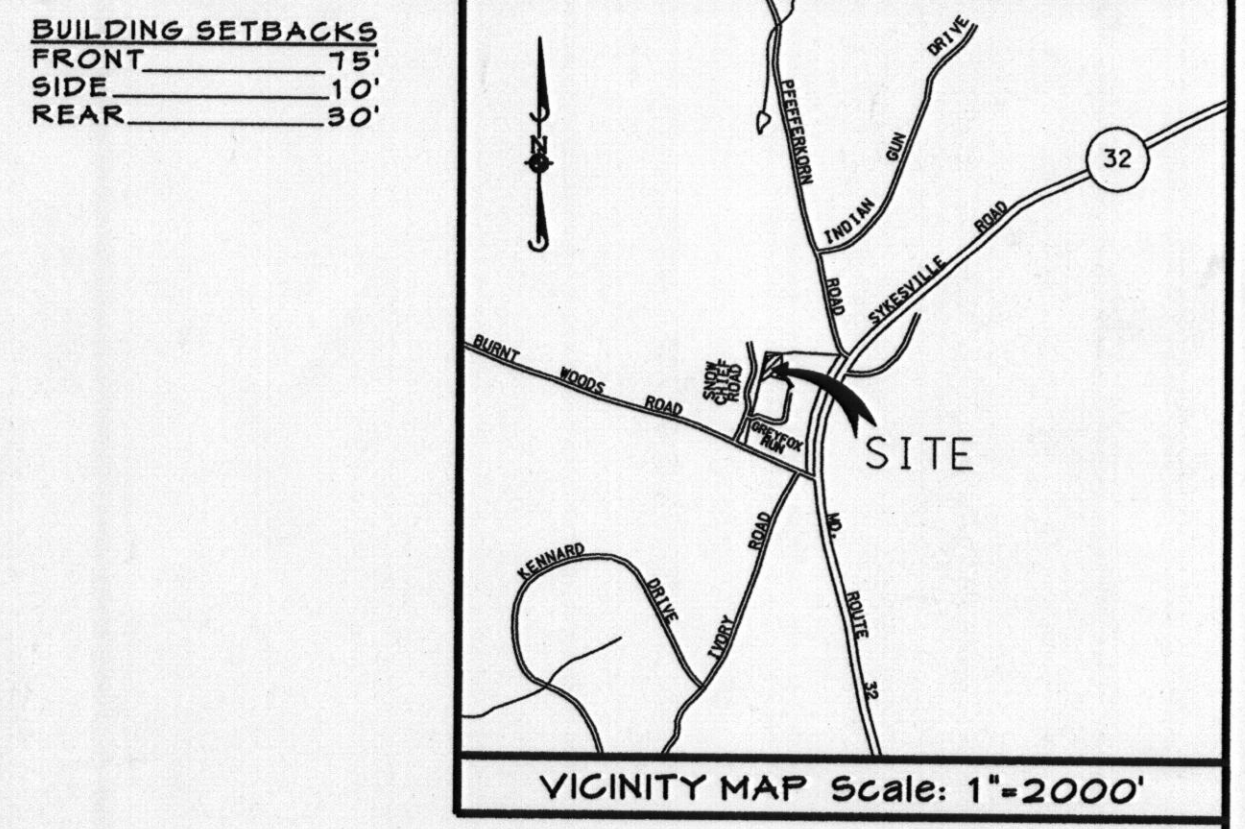
LEGEND

- SF - DENOTES SILT FENCE
- SFF - DENOTES SUPER SILT FENCE
- DENOTES STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)
- L.O.D. - DENOTES L.O.D. LIMIT OF DISTURBANCE
- S.O. - DENOTES SEMER OUT
- DENOTES TOTAL PROPOSED SEPTIC AREA EASEMENT - 10,685 S.F. ±
- DENOTES APPROVED SEPTIC AREA EASEMENT - 10,000 S.F. ± FROM APPROVED PERCOLATION CERTIFICATION PLAN DATED: 5-14-03
- ⊕ - DENOTES APPROVED PERC HOLE LOCATIONS

NOTE: "The existing well(s) shown on this plan (identified with the attached well tag number ex. HO 94-380B) has been field located by Carroll Land Services Inc. professional land surveyor(s) and is accurately shown."

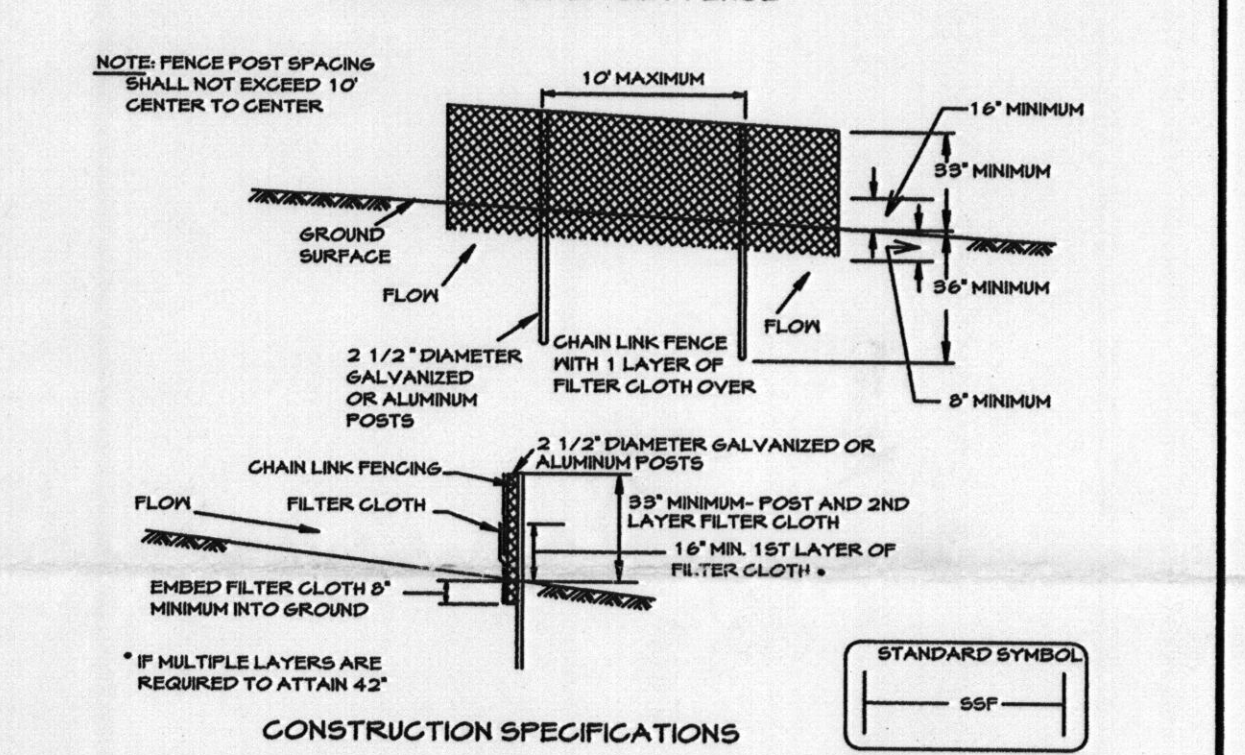
APPROVED FOR PRIVATE WATER AND SEWAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

Robert J. W. DeLo
 COUNTY HEALTH OFFICER
 12/26/06
 DATE



GENERAL NOTES

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS 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 SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
3. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
4. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
5. ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED GOVERNMENT DELAY IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.



HOUSE DETAILS SCALE: 1"=30'

NOTE: CONTRACTOR TO MAINTAIN AND REMOVE ANY SILT BUILD-UP ALONG THIS PORTION OF SUPER SILT FENCE, UNTIL AREA IS STABILIZED.

REVISIONS

DATE	REVISIONS	JEP
5/22/06	RESITE NEIGH HOUSE & GRADES	JEP
8/11/06	ADDED NOTE AS PER COUNTY COMMENT	JEP
12/14/06	ADDED REV. PERCOLATION CERT. & PLAN IV/ NOTES ETC. AS PER HOWARD CO.	JEP

BUILDING PERMIT #06006690

CLSI
 Land Development & Environmental Consultants
 www.clsi-civileng.com

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 FAX (410) 662-8004

WESTMINSTER OFFICE:
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 Westminster, MD 21157-5539
 (410) 848-1790
 FAX (410) 848-1791

Alfred L. Hensard
 Professional Engineer Registration No. 28446
 Date: 8/04/05
 Drawing No. 2005009
 County File No.

County File No. F - -