



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) 8/5/03 TEST TIME \_\_\_\_\_ A/P A 519047

AGENCY REVIEW: RE-PERC FOR HOUSE SITE DATE 7/11/2003

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 \_\_\_\_\_ 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)

REPERC

PROPERTY OWNER(S) GREENFIELD HOMES INC

DAYTIME PHONE 410-781-6782 CELL 410-365-3702 FAX 443-535-0551

MAILING ADDRESS 6656 LUSTER DR HIGHLAND MD 20777  
STREET CITY/TOWN STATE ZIP

APPLICANT 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 3120 ~~EMERALD~~ HAWKSFIELD ESTATES LOT NO. 24

PROPERTY ADDRESS 3120 EMERALD VALEY RD ELICOTT CITY MD  
STREET TOWN/POST OFFICE

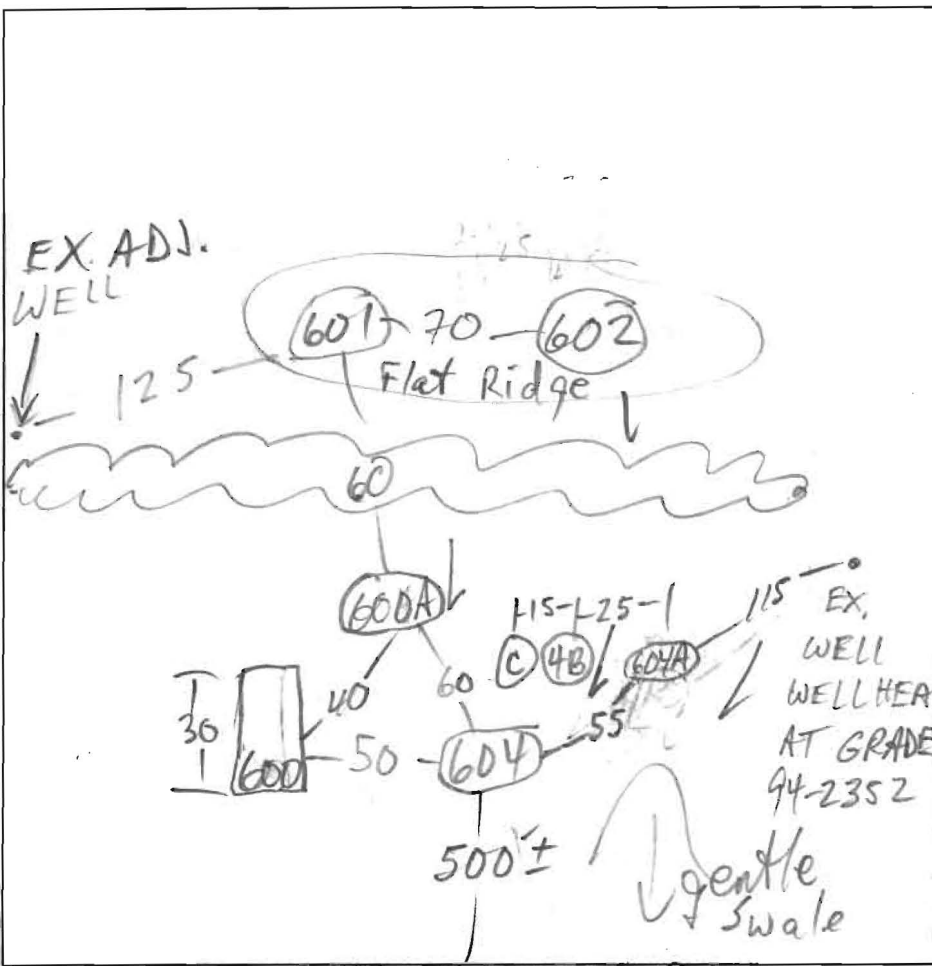
TAX MAP PAGE(S) 10 GRID H6 PARCEL(S) \_\_\_\_\_ PROPOSED LOT SIZE 7.5 AC

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.

[Signature]  
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) 313-1771 FAX (410) 313-2648  
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

AVP  
600A/604  
orge  
brn  
hvy lm  
5-  
5 1/2  
17. brn  
dk. brn  
tan beige  
sand  
5% frags



601  
brn orge  
cl/m  
7  
brn  
tan  
beige  
sand  
10-15%  
frags

600  
brn orge  
hvy lm  
10-25%  
Rx  
4-  
5  
tan beige  
sand  
6  
15-  
20%  
Rx  
tan  
beige  
sand  
15-35%  
Rx  
10  
BOT

EMERALD VALLEY RD

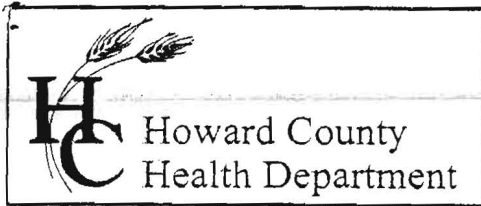
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
8/5/03	24604M	5	10:10	10:22	3/4"	BETTER @ 5 1/2'	P
	24604V	13	10:10:55	10:11:55	10:12:40	1 1/2'	
	600AV	12 1/2					P
	600V	10-13	10:46:15	10:46:50	10:48:10	1 20/45	MAR.
	604Bv	8	10:48:35	10:50:00	10:51:45		F
	604Av	14					F
	604Cv	7					P
	602v	13	12:22	12:34	12:50	16	P
	601v	13	12:46	12:49	12:57	8	P

602  
brn  
cl/m  
4 1/2  
orge red  
hvy lm  
25%  
frags  
7-8  
tan beige  
sand  
10%  
frags

604A/B/C  
brn  
cl/m  
5  
orge red  
cl/m  
7-9  
brn beige  
sand  
15% frags  
14

REMARKS AVOID HOLE 600 BY 25'  
SANITARIAN M. Ripkin BACKHOE OTHERS  
TEST HOLES USED IN SDA 601-602-600A-604 AVG. PERC TIME 12 SQ. FT/BR 210  
TRENCH WIDTH 2 INLET DEPTH 4 MAX. BOT DEPTH 8 EFFECTIVE SW D-1  
REPAIRS 2 3 7 180#/BL D-2





3525 H Ellicott Mills Drive, Ellicott City, MD 21043

(410) 313-2640 Fax (410) 313-2648

TDD (410) 313-2323 Toll Free 1-866-313-6300

website: [www.hchealth.org](http://www.hchealth.org)

Penny E. Borenstein, M.D., M.P.H., Health Officer

August 26, 2003

Greenfield Homes  
6656 Luster Drive  
Highland, MD 20777

RE: Percolation Test Results – A519047  
Hawksfield, Lot 24, Emerald Valley Road  
Adjustment of Platted Easement for House Site

Dear Mr. Minor:

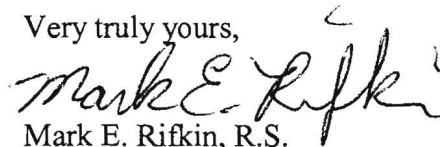
Percolation testing conducted August 5, 2003 indicated generally satisfactory soil conditions, although some excessive rock and clay were also found. Copies of the test results are enclosed.

Further review is contingent upon submission by a registered engineer/surveyor of a percolation certification plan showing the following:

- 1) actual locations of all excavated test holes with suitable labels for passed/failed
- 2) the proposed house
- 3) the proposed sewage reserve area at least 25' north and east of marginal test hole # 600
- 4) the existing well and sewage easement
- 5) a note certifying that all existing wells and septic systems within 100 feet of property boundaries have been shown
- 6) a note indicating that depicted topography reflects field-verified information
- 7) the plan identification number (PC 519047) in the title block

The percolation certification plat should be submitted within 60 days to allow field verification if necessary. If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.

Very truly yours,



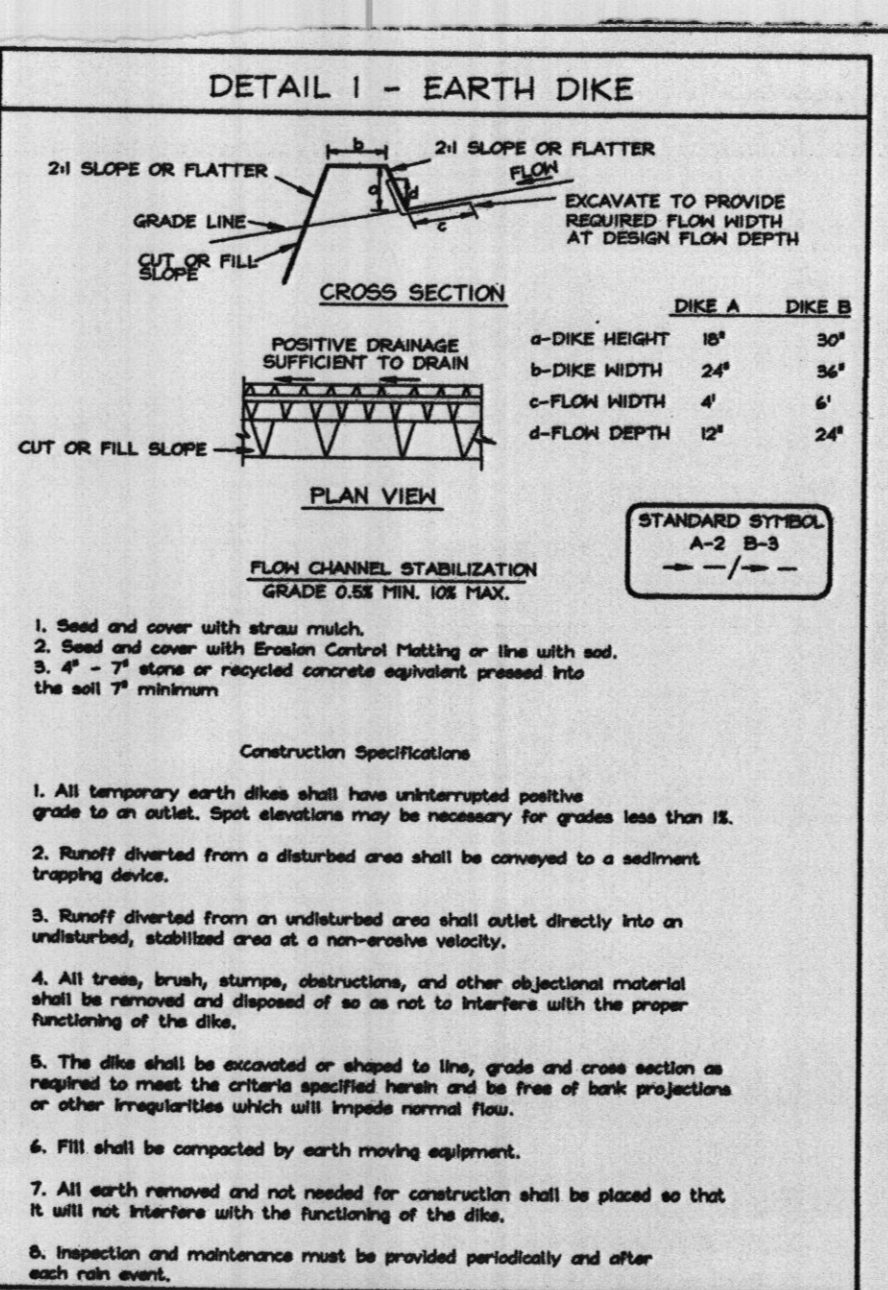
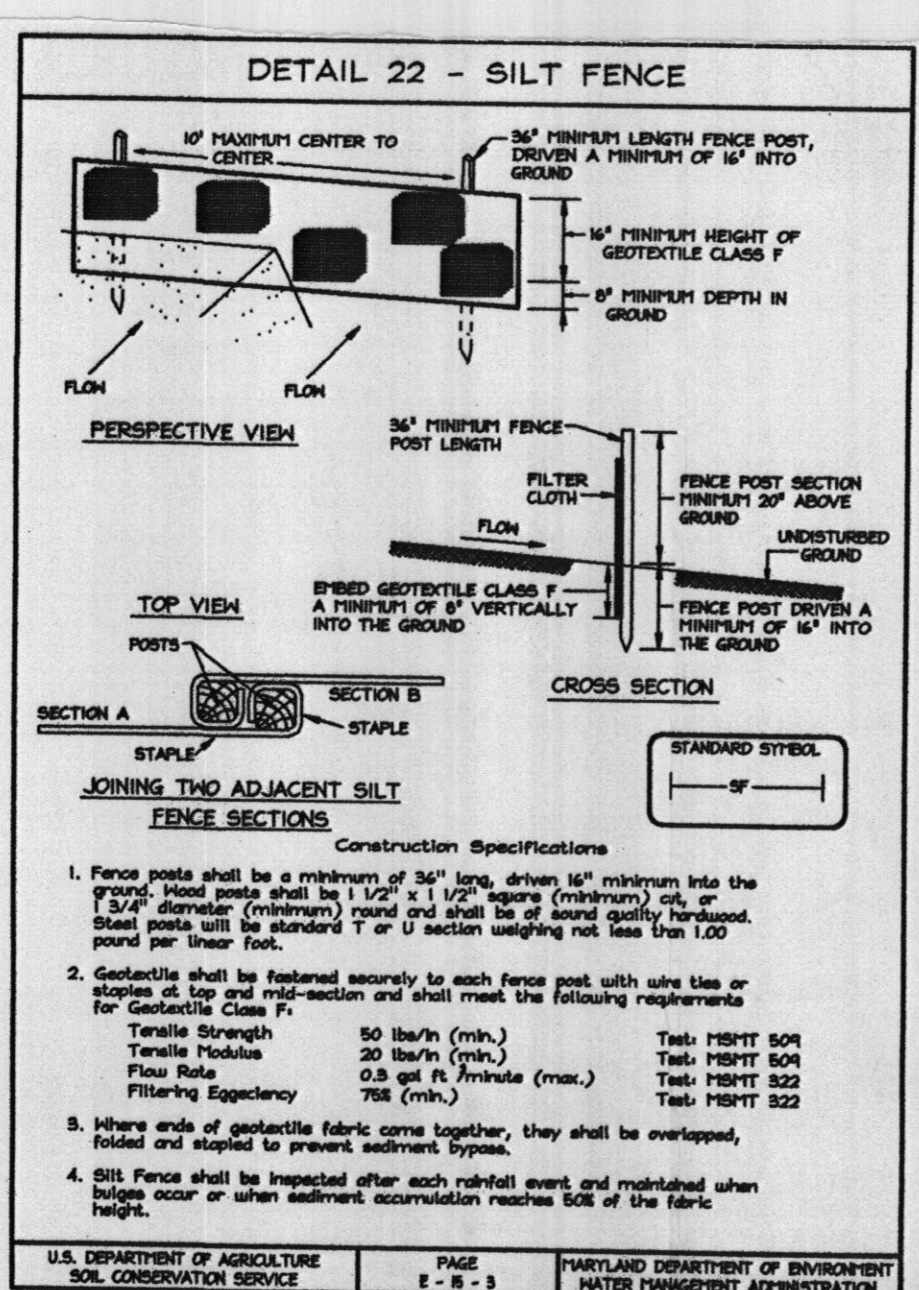
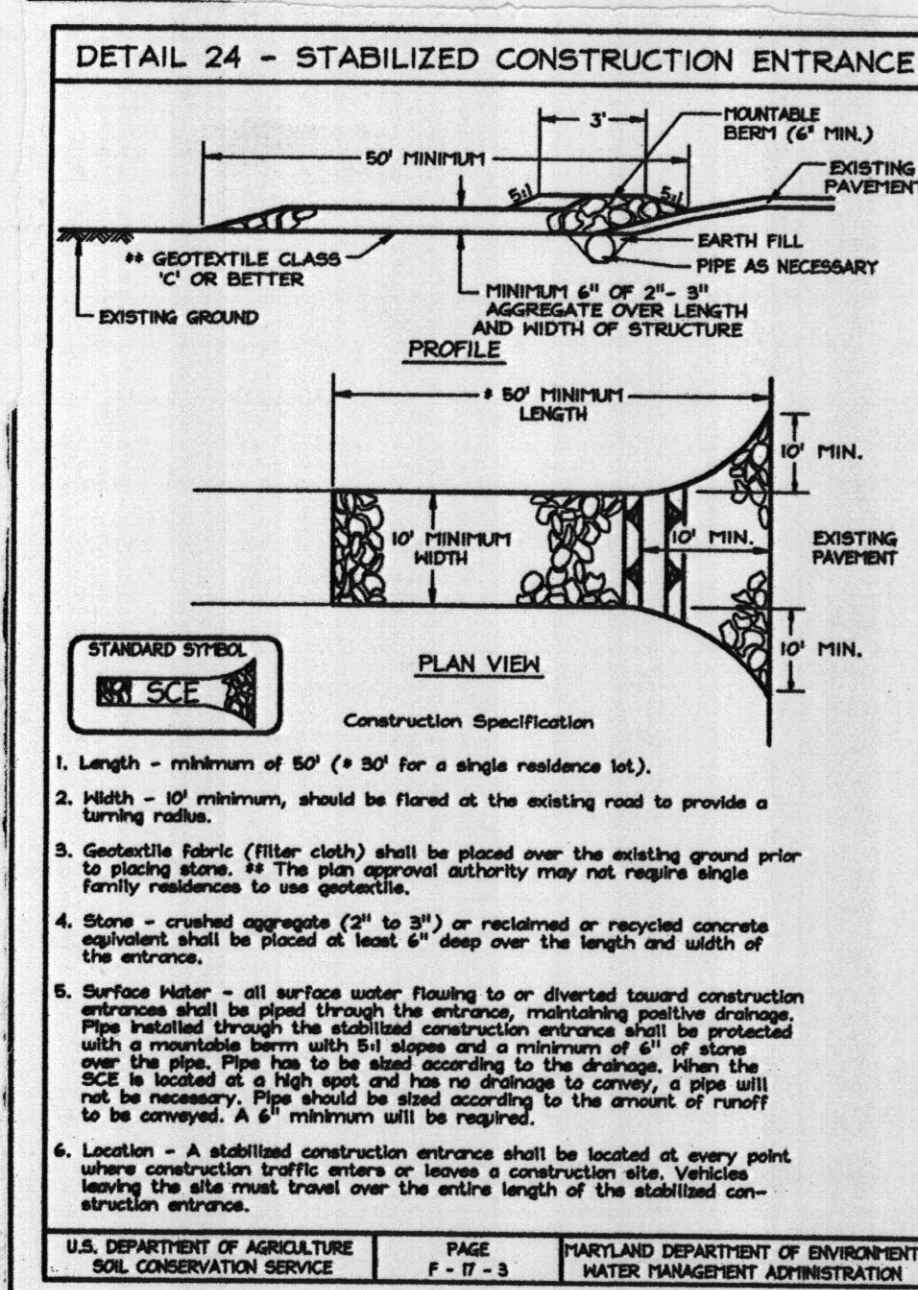
Mark E. Rifkin, R.S.

Water and Sewerage Program

MR

Enclosures

cc: FSH & Associates  
File



### PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO PREDIATED FURTHER DISTURBANCE. A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

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

**SOIL AMENDMENTS:** In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (42 lbs/1000 sq.ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq.ft.) before seeding. Harrow or disk into upper three inches of soil. At the time of seeding, apply 400 lbs per acre 10-0-0 urea-form fertilizer (4 lbs/1000 sq.ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (42 lbs/1000 sq.ft.) and apply 1000 lbs per acre 10-10-10 fertilizer (28 lbs/1000 sq.ft.) before seeding. Harrow or disk into upper three inches of soil.

**SEEDING:** For periods March 1 thru April 30, and August 1 thru October 15, seed with 40 lbs per acre (14 lbs/1000 sq.ft.) Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs per acre Kentucky 31 Tall Fescue per acre and 2 lbs per acre (28 lbs/1000 sq.ft.) of urea-form fertilizer. During the period of October 16 thru February 28, protect soils by Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use seed, Option (3) Seed with 40 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

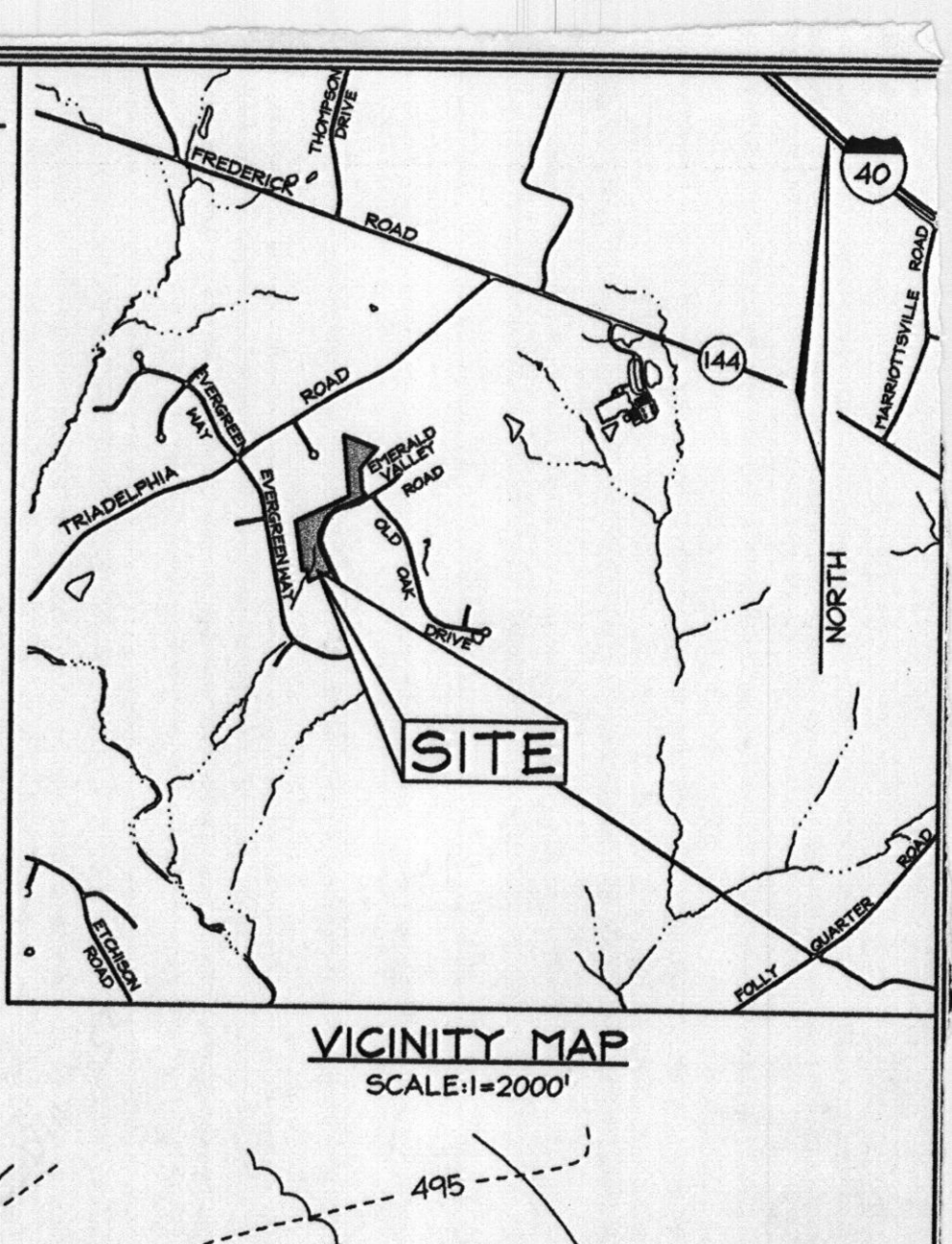
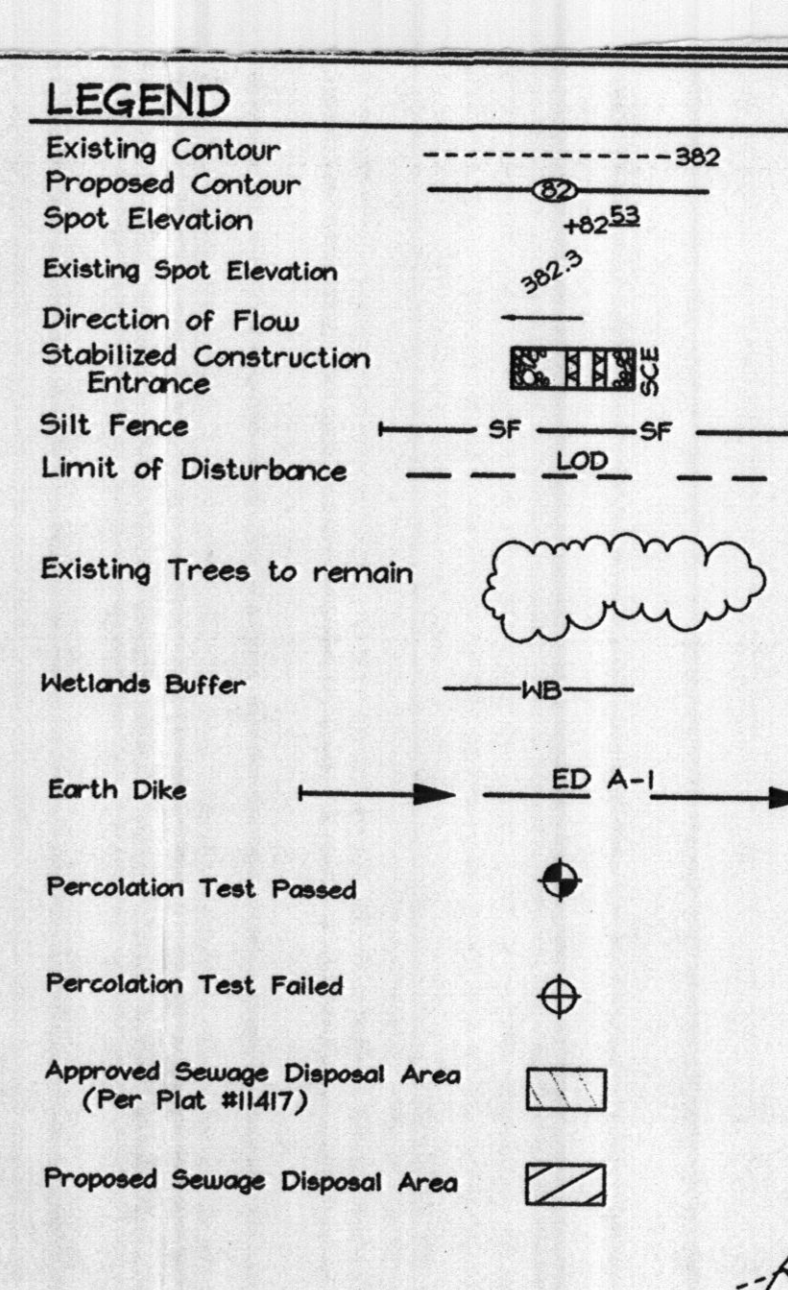
**MULCHING:** Apply 1 1/2 to 2 tons per acre (70 to 140 lbs/1000 sq.ft.) of untreated straw straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 20 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 5 feet or higher, use 340 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

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

### SEDIMENT CONTROL NOTES

- 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 (315-1855).
- All vegetation and structural practices are to be installed according to the STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- 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, and all slopes greater than 3:1, (b) 14 days as to all other disturbed or graded areas on the project site.
- 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.
- 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 for permanent seeding, sod, temporary seeding, and mulching (Sec. 5). Temporary stabilization with mulch alone shall 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 permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 

Total Area	7.53 Acres
Area Disturbed	0.67 Acres
Area to be roofed or paved	0.32 Acres
Area to be vegetatively stabilized	0.58 Acres
Total Cut	4270 cu yd
Offsite waste/borrow area location	##
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- 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.
- 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.
  - Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.
  - To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.



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

### SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Baile silt loam	D
MgC2	Minor gravelly loam, 8 to 15 percent slopes, moderately eroded	B
MIB2	Minor loam, 3 to 8 percent slopes, moderately eroded	B
MID2	Minor loam, 15 to 25 percent slopes, moderately eroded	B

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE P-1-6 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

### TEMPORARY SEEDING NOTES

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

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

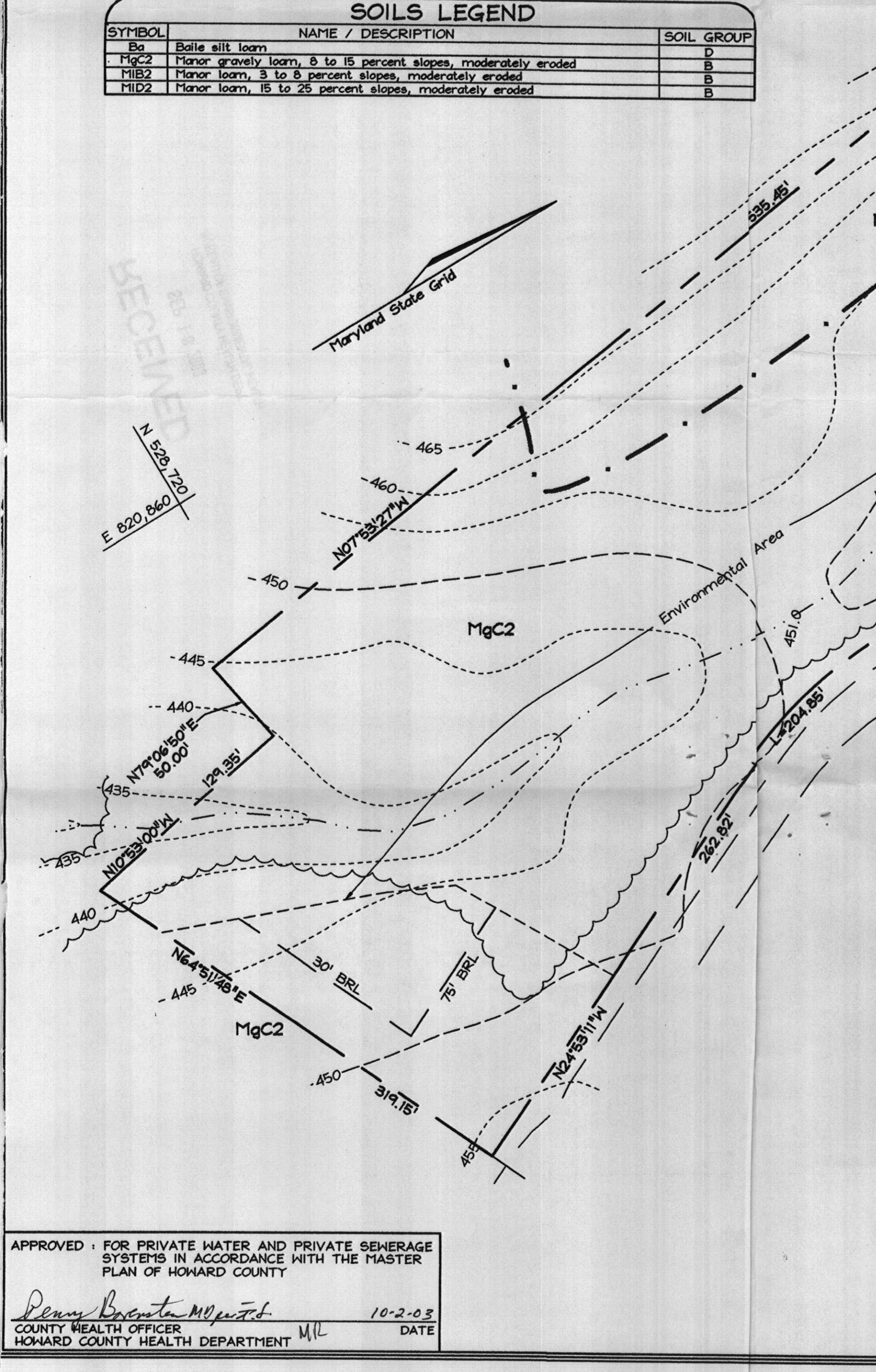
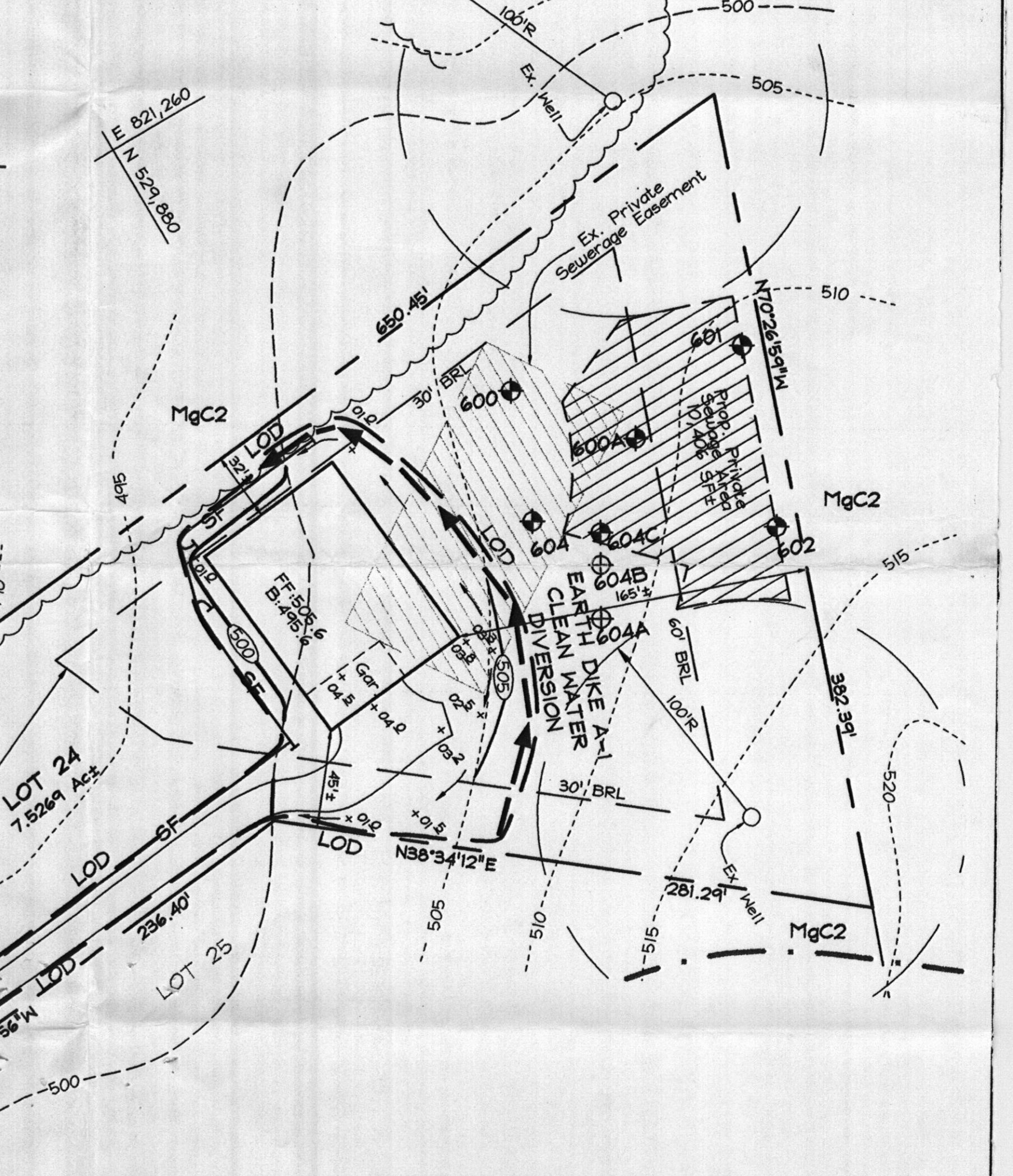
**SEEDING:** For periods March 1 thru April 30 and August 1 thru November 15, seed with 1 1/2 bushel per acre of annual ryegrass (3.5 lbs/1000 sq.ft.). For the period May 1 thru July 31, seed with 3 pounds per acre (3 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 5 feet or higher, use 340 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

**MULCHING:** Apply 1 1/2 to 2 tons per acre (70 to 140 lbs/1000 sq.ft.) of untreated straw straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 20 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 5 feet or higher, use 340 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

### GENERAL NOTES

- Reference: Plat #1417.
- Five (5) foot contours are taken from Howard County aerial topographic survey.
- Contractor to confirm all dimension, utilities and topography in the field. If any conflicts arise, contact Engineer before beginning any work.
- Private water, and sewer will be used within this site.
- Basement will not sewer by gravity. Ejector pump required.
- Effluent pump required to deliver sewer to Distribution Box.
- This area designates a private sewage reserve area of at least 10,000 square feet as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). Improvements of any nature in this area are restricted until public sewage is available. These reserve areas shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant adjustments to the private sewage reserve area. Recordation of a modified sewage reserve area shall not be necessary.
- Howard County Soil Map #14
- Septic fields are located on soil type MgC2, as per the soil survey of Howard County.
- All wells and septic systems on adjacent properties within 100' of proposed wells and proposed septic systems have been shown.



**OWNER/DEVELOPER**  
GREENFIELD HOMES, Inc.  
6656 Luster Drive  
Highland, Maryland 20777  
410.761.6782

**PERCOLATION CERTIFICATION PLAN**  
Signed **HAWKSFIELD ESTATES**  
LOT 24

TAX MAP 16423 GRID 20 3RD ELECTION DISTRICT

LOT 24 HOWARD COUNTY, MARYLAND

**FSH Associates**  
Engineers Planners Surveyors  
8318 Forest Street, Elkridge City, MD 21043  
Tel: 410-750-2251 Fax: 410-750-7350  
E-mail: FSHAssociates@cs.com

DESIGN BY: PS  
DRAWN BY: AT/MS  
CHECKED BY: ZTF  
SCALE: 1"=50'  
DATE: Sept. 17, 2003  
H.O. No.: 3128  
SHEET No.: 1 OF 1