APPLICATION

A 39709

P

PERCOLATION TESTING

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE 461-9933

8/7/87 perc grid pending approved plat

DISTRICT

DATE 7/15/89

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM

PROPERTY OWNER RONALD S. LaNEVE

ADDRESS 11799 TRIADELPHIA ROAD PHONE 301-531-6161
ELLICOTT CITY, MARYLAND 21043

PROSPECTIVE BUYER —

ADDRESS — PHONE —

PROPERTY LOCATION LOT 6 Preliminary

SUBDIVISION — LOT NO. 6

ROAD AND DESCRIPTION SOUTH OF MARYLAND ROUTE 144 AND SOUTHEAST OF TRIADELPHIA ROAD

TAX MAP 16 & 23 PARCEL # 40

SIZE OF LOT 3 ACRES TYPE BLDG SFD
(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. R. Wa Lanen
(SIGNATURE OF APPLICANT)

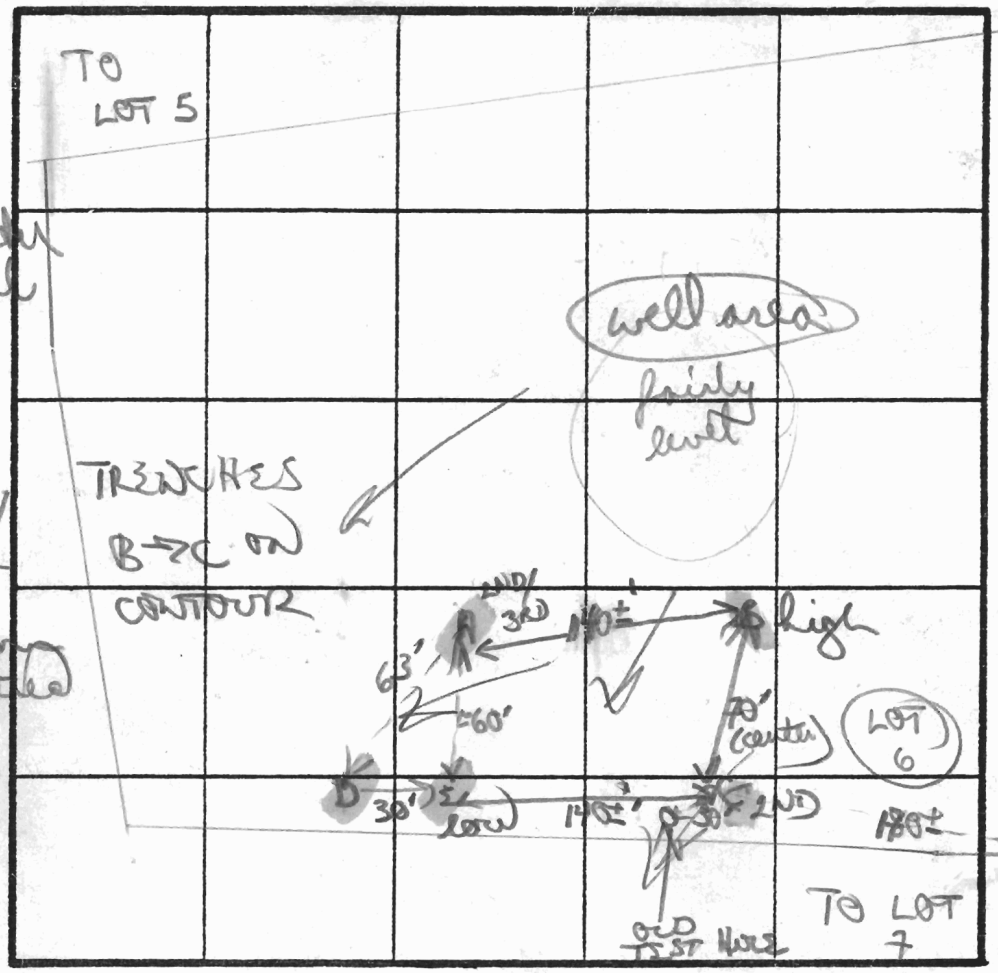
APPROVED BY — FOR — DATE —

REJECTED BY — FOR — DATE —

HOLD PENDING FURTHER TESTS — DATE —

REASONS FOR REJECTION OR (HOLDING) for sub-plat & certified holes

THIS IS NOT A PERMIT



INDICATE NORTH · NAME ADJOINING ROADWAY AS BASE LINE

(1) SOIL PROFILE

0
orange/chesty gravely soil 2 to 2½ feet
3½'
to eight sandstone/silty type soil fairly uniform w/ few scattered frags
12+'D

D
silty clay loam w/ sandstone frags
↑ w/ frag getting hard
8½ 9'

A
orange tan brown layers of silty clay soils
4-4½'
to mostly grey orange silty gravelly w/ 10% small frags to D'D

B
orange chesty
3½'
silty clay loam
13'D

C
heavy chesty gravelly
4½'
to grey tan silty loam
13'D

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
8/7/87	D	HARD BOTTOM	8½-9'		OK SOILS		4' DID NOT TEST
	E	3½S	144	145	145	147	2 MIN
		12'D	bottom (see profile)				
	A	4'S	217	218	218	220	2 MIN
		12'D	bottom (see profile)				
	C	5'S	224	238	238	303	25 MIN
		13'D	bottom (see profile)				
	B	3½S 4½M	234 DO MUCH BETTER	244	244	304	20 MIN
		7½M	220	222	222	224	2 MIN
		13'D	bottom (see profile)				

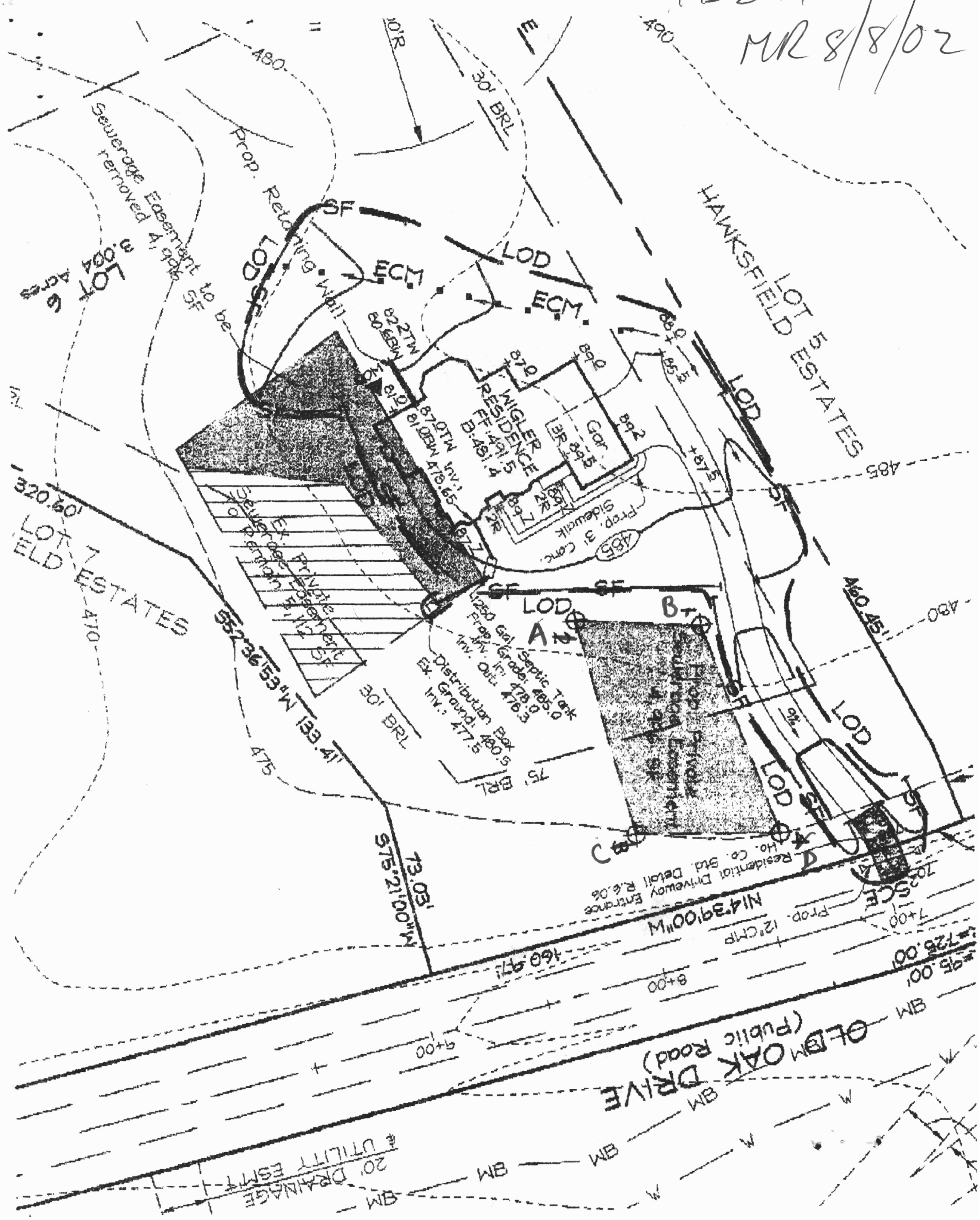
REMARKS Field adjusted due to rock in low hole

TYPE OF SOIL mixed soils some heavy chesters to 5', some silty loams; below mostly silty loam

TESTED BY B Nixon ALSO PRESENT Harrell

EPH 2-1079

REVISION OK FOR PERC TESTING MR 8/8/02


LOT 6
3.004 Acres
Sewerage Easement to be removed
Prop. Retaining Wall
ECM
SF
LOD
30' BRL
HAWKSFIELD LOT 5 ESTATES
WIGLER RESIDENCE
Gar
Prop. 3' Conc. Sidewalk
LOT 7
ESTATES
320.60'
S52°36'53"W 133.41'
S75°21'00"W
73.03'
Ex. Private Sewerage Easement
1250 Gal. Septic Tank
Distribution Box
75' BRL
Prop. Private Sewerage Easement
Residential Driveway Entrance
Ho. Co. Std. Detail R.6.06
N14°39'00"W
160.47'
460.45'
Prop. 12"CMP
OLD OAK DRIVE
(Public Road)
20' DRAINAGE & UTILITY ESMT
WB

08/08/2002 08:11 410-750-7350 EXPLORATION/ECO/FSH PAGE 03

517400
COUNTY #

MAINTAIN 25' from ROADCUT

SOIL PROFILE

0'

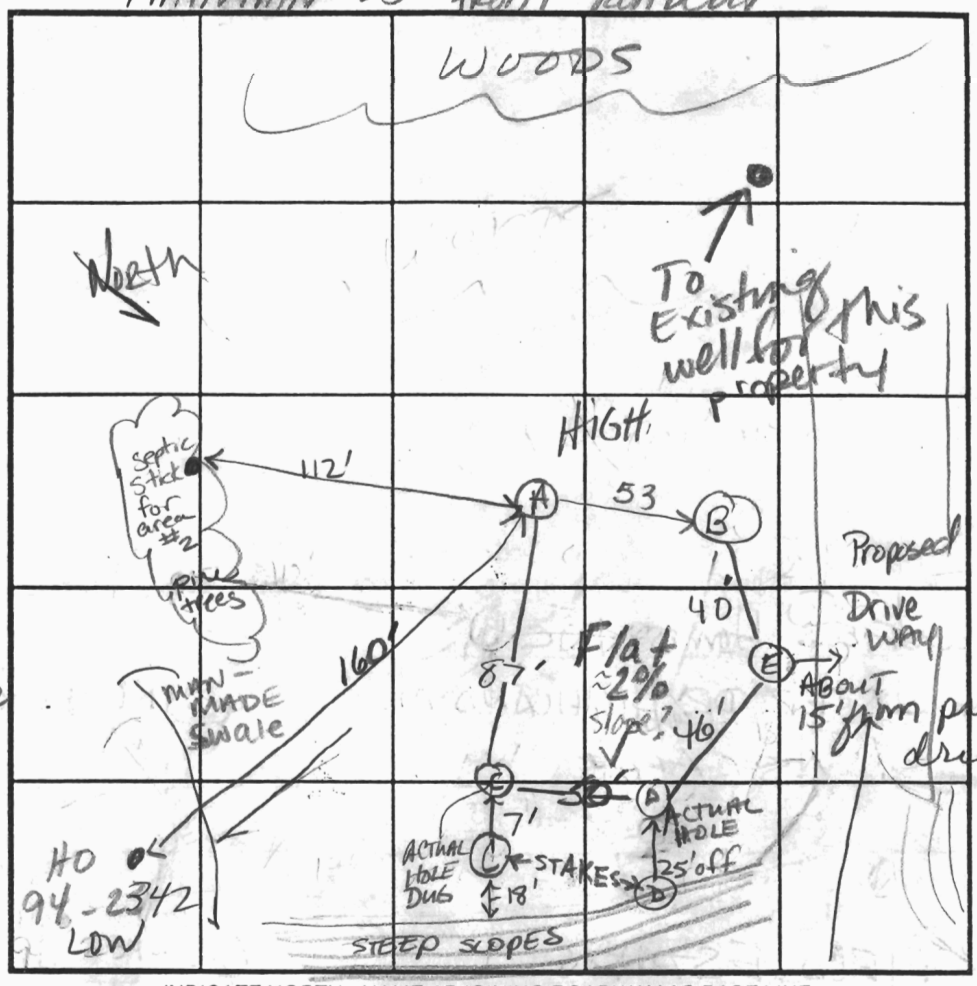
(A) (B)

org
org brn
SiCL
Lm
Trace Rx
5½
lt brn
tan
sand
some
mica
Rx ≤ 5%
Bottom
13½

(E) (C) (D)

Strong brn
Loamy
SAND
Trace Rx
3½
Horn, brn
fine
sand
micaceous
Trace Rx
Bottom
13½

(F)



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

OLD OAK DRIVE

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
8-15-02	A	5½' S / 13½'	9:31:54	9:33:32	9:33:32	9:35:50	2½ min
	B	SEE SOIL Profile S	Loam	to 4'			
	(C)	MOVED 8' up hill = 25' off ROADCUT					
		5½' 13½'	9:53:03	9:53:51	9:53:51	9:54:40	repour
	(D)		9:55:22	9:56:56	9:56:56	9:59:10	~2 min
	(D)	Visual SEE SOIL Profile				EST 2 min	OK
	(E)	Visual SEE SOIL Profile					
			Not per Plan				
	Some						
	Holes	not tested as staked					

REMARKS Move 8' up from hole (B) due to roadway cutout

TYPE OF SOIL Move 25' up from hole (D)

TESTED BY Kacie ALSO PRESENT Kenny, Mayne, Rick

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT/BEDROOM _____

APPLICATION

265 8/15/02 9:00

PERCOLATION TESTING

A 517403

P

DISTRICT

DATE 8-7-02

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

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 GREENFIELD HOMES INC

ADDRESS 6656 LUSTER DR, HIGHLAND MD PHONE 410-781-6782/410-365-3702C

AGENT OR PROSPECTIVE BUYER AS ABOVE

ADDRESS PHONE

PROPERTY LOCATION:

SUBDIVISION HAWKSFIELD ESTATES LOT NO. 6

ROAD AND DESCRIPTION 3112 OLD OAK DR. ELLICOTT CITY MD 21042

TAX MAP PARCEL #

SIZE OF LOT 3A TYPE BLDG. SINGLE FAMILY
(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. Rick Minor RICK MINOR
(SIGNATURE OF APPLICANT)

APPROVED BY FOR DATE

DISAPPROVED BY FOR DATE

HOLD PENDING FURTHER TESTS

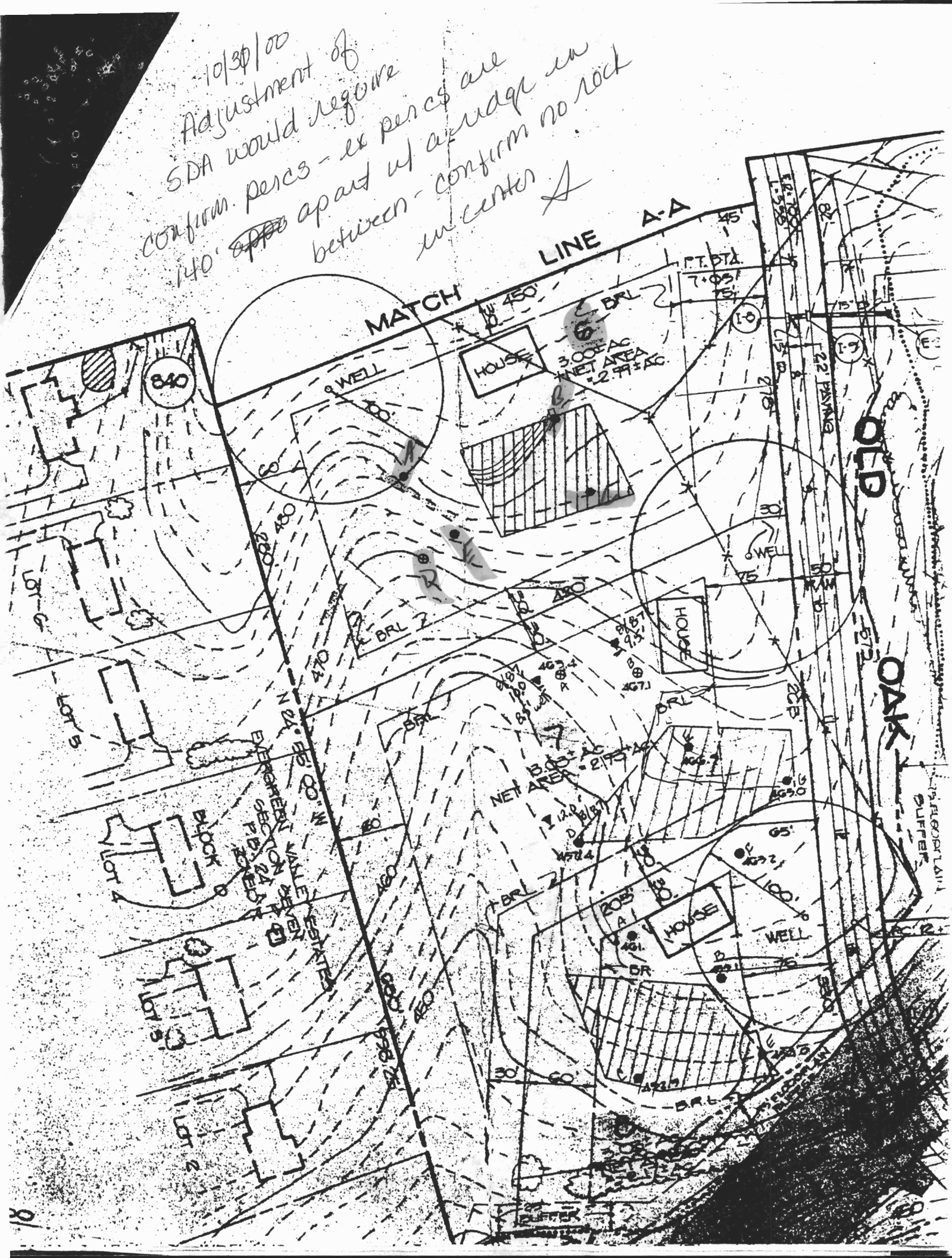
REASONS FOR REJECTION OR HOLDING

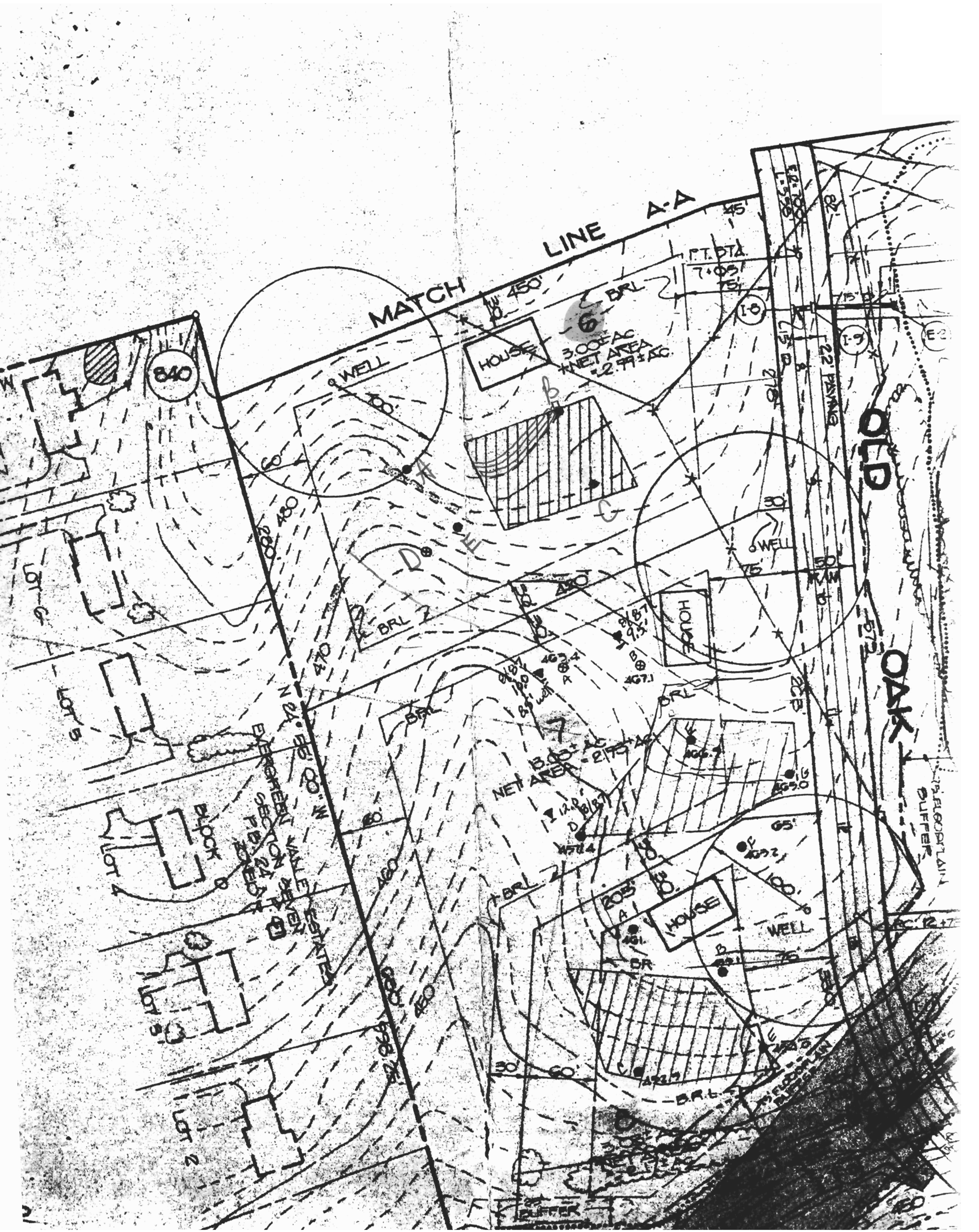
PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # DATE

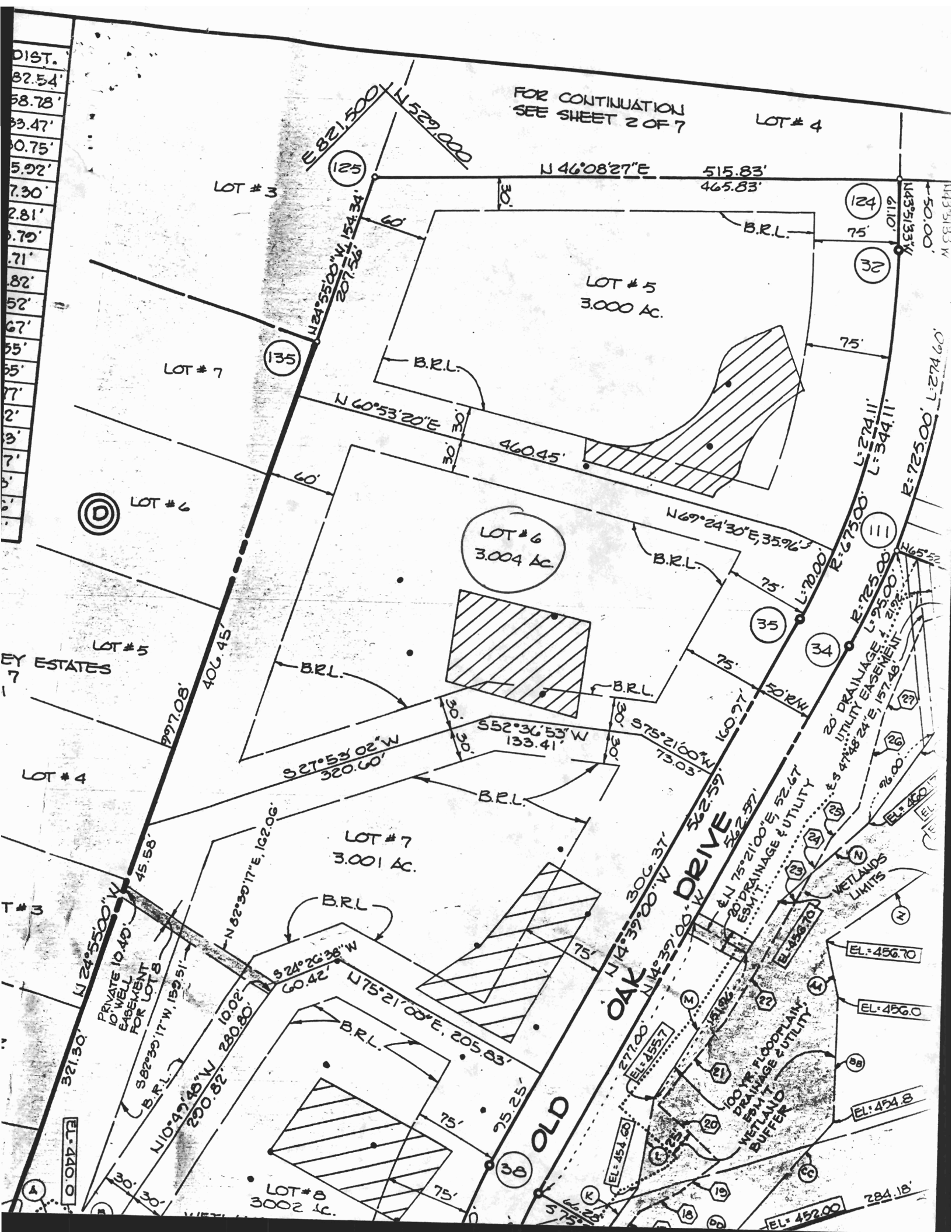
SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D # DATE

THIS IS NOT A PERMIT

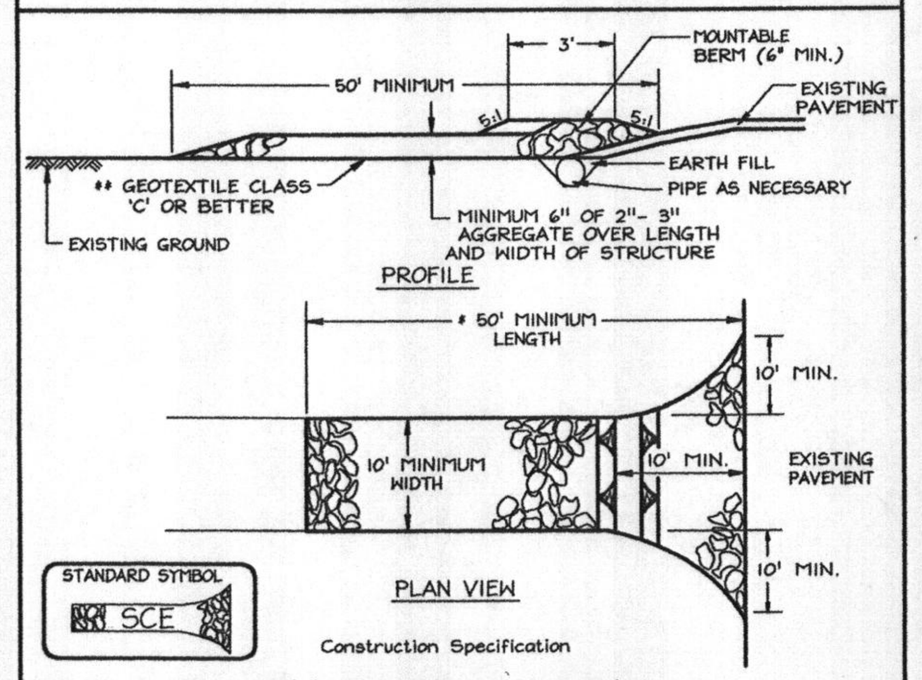
HD-216 (3/92)


10/30/00
Adjustment of
SDA would require
confirm. percs - ex percs are
140' apart w average in
between - confirm no rock
in center
MATCH LINE A-A
OLD OAK
HOUSE
WELL
3.00± AC
NET AREA
=2.79± AC
840
EVERGREEN KAILE ESTATES
SECTION SEVEN
P.B. 24 PAGE 41
BLOCK A
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
N24° 55' 00" W
BRL
AGO
DR
22' PAVING
50' R/W
100 YR FLOODPLAIN
BLUFFER
20' BUFFER


MATCH LINE A-A
450'
BRL
6
HOUSE
3.00± AC
NET AREA =2.99± AC
WELL
840
PT. STA.
22' PAVING
OLD OAK
WELL
HOUSE
LOT 6
LOT 5
LOT 4
LOT 3
LOT 2
BLOCK
EVERGREEN VALLE ESTATES
SECTION SEVEN
7
NET AREA
HOUSE
WELL
BRL
BUFFER
FLOODPLAIN


FOR CONTINUATION SEE SHEET 2 OF 7
LOT # 4
LOT # 3
LOT # 5
3.000 AC.
LOT # 7
LOT # 6
LOT # 6
3.004 AC.
LOT # 5
LOT # 4
LOT # 7
3.001 AC.
LOT # 8
3.002 AC.
OAK DRIVE
OLD
E 821,500
N 529,000
N 46°08'27"E
515.83'
465.83'
N 24°55'00"W 154.34'
207.56'
N 60°53'20"E
460.45'
N 67°24'30"E, 35.96'
S 52°36'53"W
133.41'
S 75°21'00"W
73.03'
S 27°53'02"W
320.60'
N 24°55'00"W
321.30'
N 82°39'17"E, 162.06'
S 24°26'36"W
60.42'
N 75°21'00"E, 205.83'
N 10°49'48"W
280.80'
S 82°39'17"W, 159.51'
PRIVATE 10.40' WELL EASEMENT FOR LOT 8
N 14°39'00"W
306.37'
562.59'
562.59'
20' DRAINAGE & UTILITY ESM'T.
℄ N 75°21'00"E, 52.67'
℄ S 47°48'24"E, 157.48'
20' DRAINAGE & UTILITY EASEMENT
100 YR. FLOODPLAIN, DRAINAGE & UTILITY ESM'T WETLAND BUFFER
WETLANDS LIMITS
EL: 456.70
EL: 456.0
EL: 454.8
EL: 455.7
EL: 454.60
EL: 452.00
EL: 440.0
284.18'
277.00'
R: 675.00'
L: 274.11'
L: 344.11'
R: 725.00'
L: 274.60'
L: 70.00'
L: 95.00'
50' R/W
96.00'
B.R.L.
75'
30'
60'
40'
997.08'
160.77'
25.25'
N 35°51'33"W
50.00'
111.01'

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



Construction Specification

1. Length - minimum of 50' (* 30' for a single residence lot).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. ** The plan approval authority may not require single family residences to use geotextile.
4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 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.
6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

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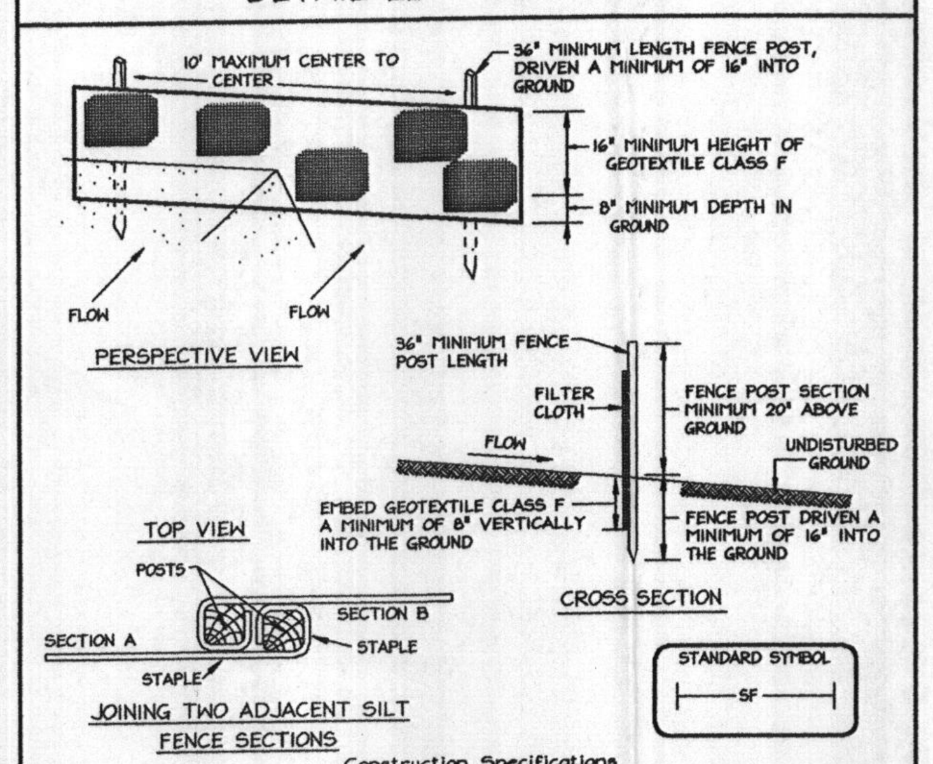
DETAIL 22 - SILT FENCE



Construction Specifications

1. Fence posts shall be a minimum of 36" long, driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 1.00 pound per linear foot.
2. Geotextile 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 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft /minute (max.)	Test: MSMT 322
Filtering Eggeciency	75% (min.)	Test: MSMT 322

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

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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 one of the following schedules:

1) Preferred-Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq.ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq.ft.)
2) Acceptable-Apply 2 tons per acre dolomatic limestone (92 lbs/1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10- fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs/1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

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

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

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

SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs./1000 sq.ft.) For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq.ft.). For the period November 1 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 sod.

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

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 (313-1855).
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 redisturbance, 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.
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 for permanent 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	3.00 Acres
Area Disturbed	0.68 Acres
Area to be roofed or paved	0.25 Acres
Area to be vegetatively stabilized	0.43 Acres
Total Cut	*1,167 CY
Total Fill	*2,033 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.

* Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.

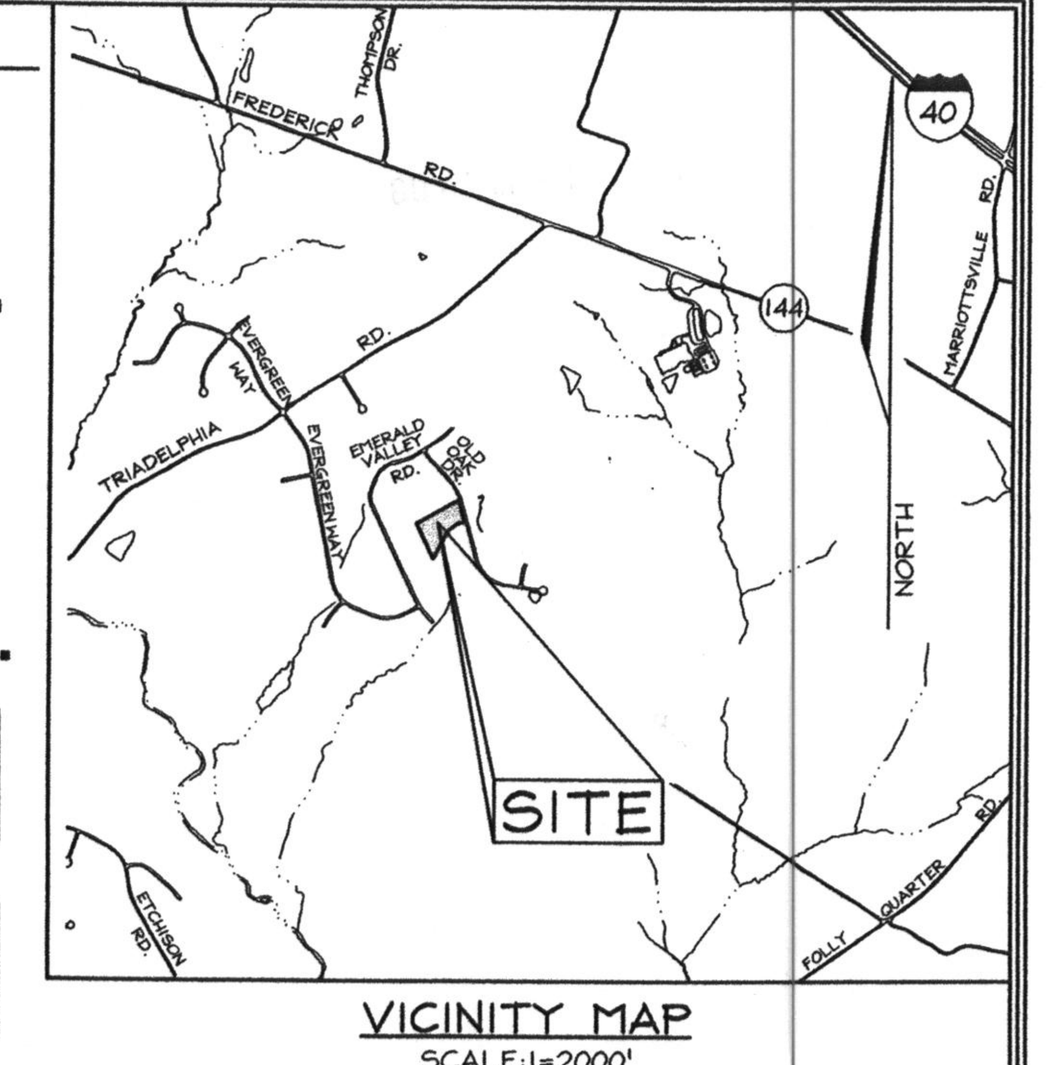
** To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit

PERC. CHART

Number	Elevation
A	482.17
B	483.45
C	477.69
D	478.07
E	482.10

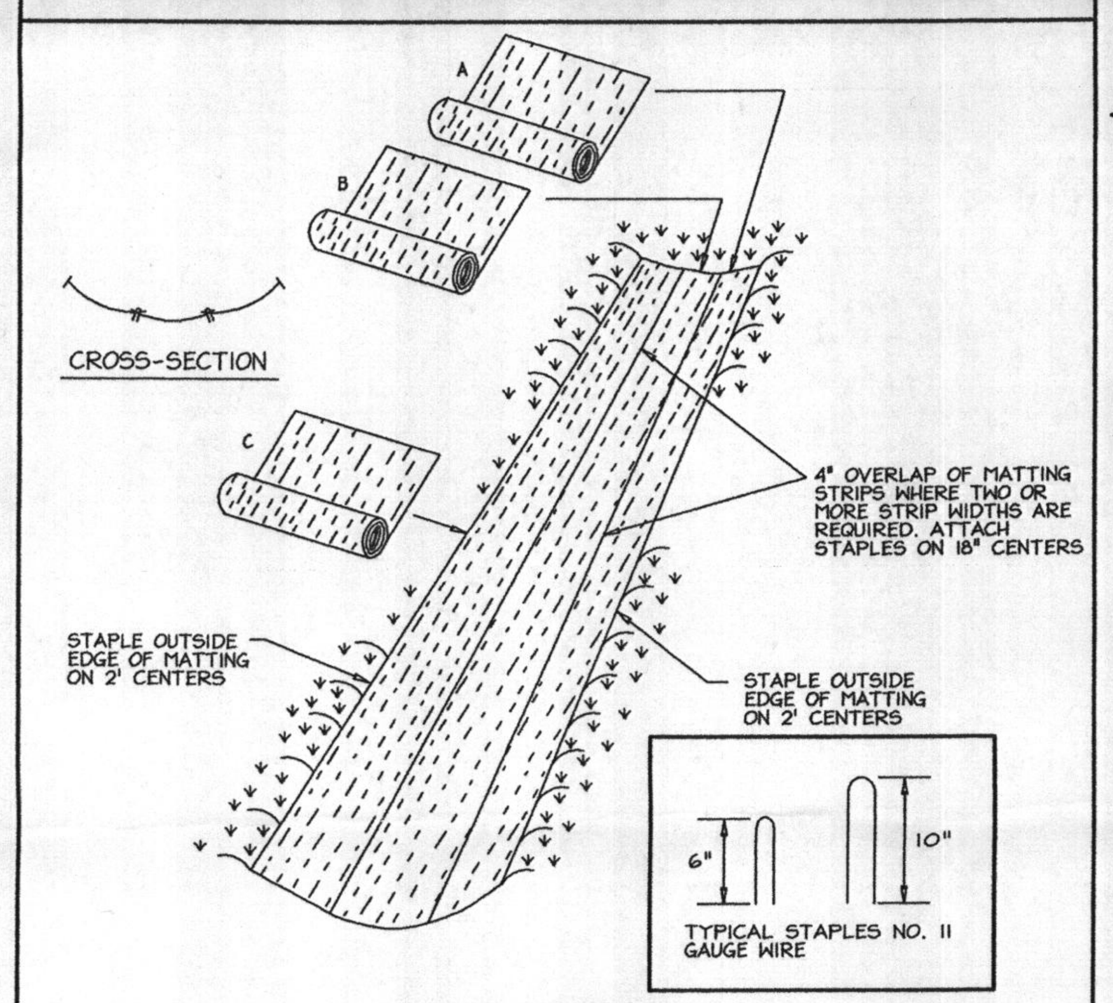
LEGEND

Existing Contour	- - - - - - 382
Proposed Contour	—(82)—
Spot Elevation	+82.53
Direction of Flow	←
Stabilized Construction Entrance	SCE
Silt Fence	—SF—SF—
Limit of Disturbance	— — LOD — —
Perc Test (Passed)	⊕
Existing Trees to remain	
Erosion Control Matting	ECM
Existing Sewerage Easement	
Proposed Sewerage Easement	
Slopes 15% to 24.99%	
Slopes 25% and greater	



VICINITY MAP
SCALE:1=2000'

DETAIL 30 - EROSION CONTROL MATTING



Construction Specifications

1. Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
2. Staple the 4" overlap in the channel center using an 18" spacing between staples.
3. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
4. Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
5. Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
6. The discharge end of the matting liner should be similarly secured with 2 double rows of staples.

Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

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GENERAL NOTES

1. Reference: Plat #10440 F-90-05
2. Five (5) foot contours are taken from Howard County aerial topographic survey. Two (2) foot contours have been field run by C.B. Miller and Associates, Registered Land Surveyor, in November 2002. All percolation test holes and their elevations have been field located by C.B. Miller and Associates, Registered Land Surveyor, in Aug. 2002.
3. Contractor to confirm all dimension, utilities and topography in the field. If any conflicts arise, contact Engineer before beginning any work.
4. Driveway entrance to be constructed in accordance with Howard County Standard Detail R.6.06.
5. Private water, and sewer will be used within this site.
6. [hatch symbol] This area designates a private sewage easement, of at least 10,000 SF, 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 easements 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 easement. Recordation of a modified sewage easement shall not be necessary.
7. All wells and septic systems on adjacent properties within 100' of proposed wells and proposed septic systems have been shown.
8. Howard County Soil Map #14
9. Septic fields are located on soil types MIB2 and MIC2, as per the soil survey of Howard County.
9. Total area of private sewerage easment is 10,016 SF.

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

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

I. 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.

II. 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

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

II. 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 contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger that 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/acre (200-400 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.

II. For sites having disturbed areas under 5 acres:

i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

iii. 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 soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic 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.

ii. Place topsoil (if required) and apply soil ammendments specified in 20.0 Vegetative Stabilization-Section 1-Vegetative Stabilization Methods and Materials.

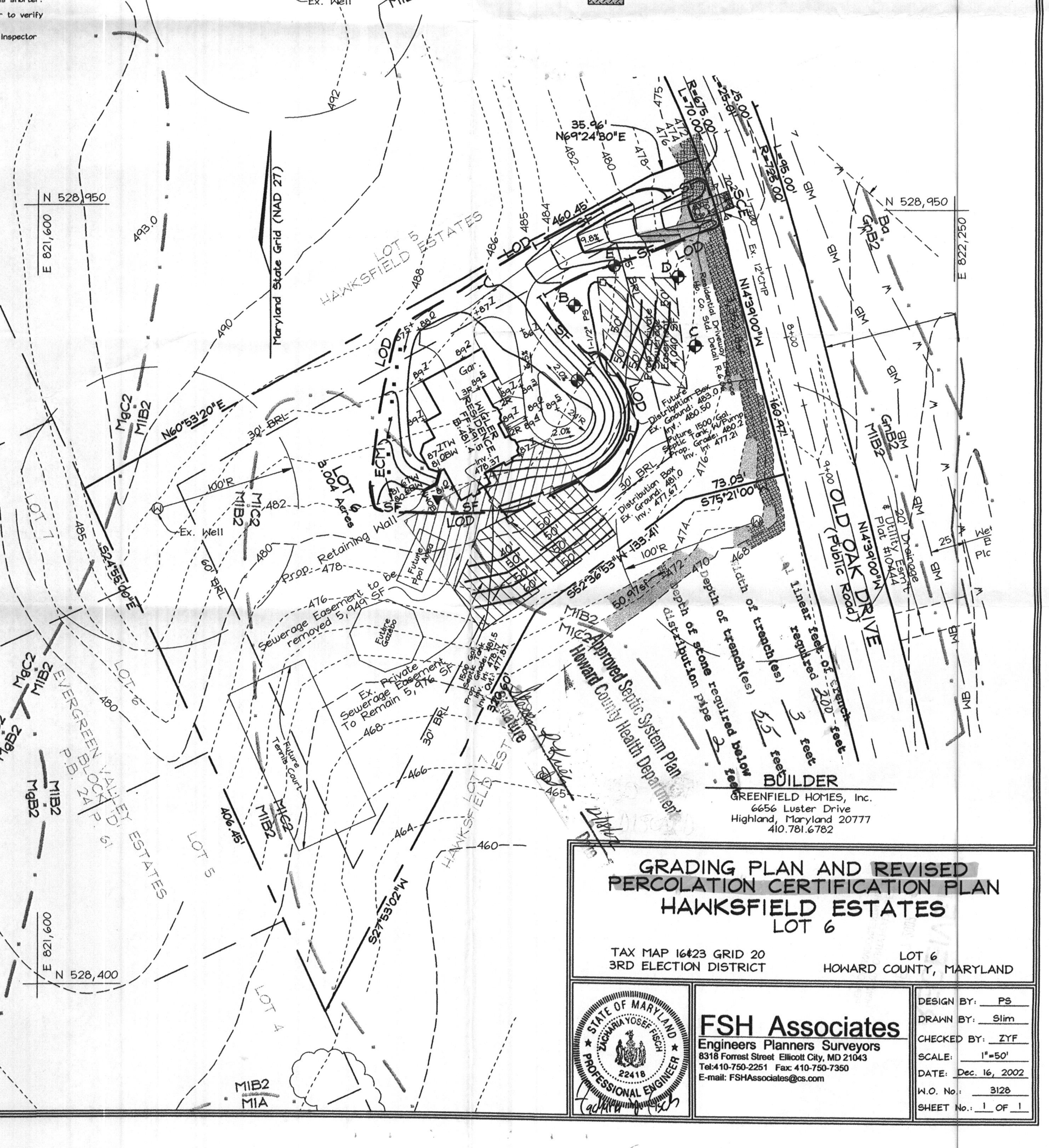
V. Topsoil Application

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" - 8" higher in elevation.

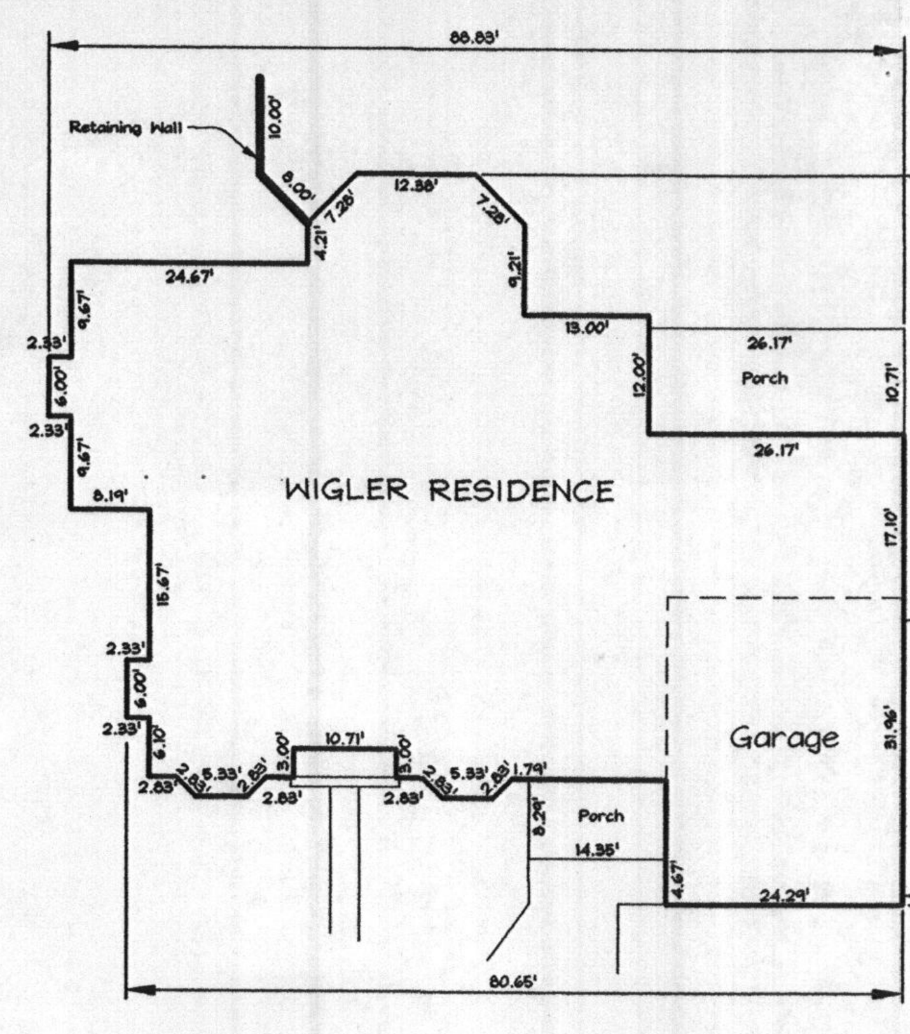
iii. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

iv. Topsoil shall not be place 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.



SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
MIB2	MANOR LOAM, 3 TO 8 PERCENT SLOPES, MODERATLEY ERODED	B
MIC2	MANOR LOAM, 8 TO 15 PERCENT SLOPES, MODERATLEY ERODED	B
MgC2	MANOR GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B



HOUSE ENLARGEMENT
SCALE: 1"=20'

APPROVED : FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

12/18/02

COUNTY HEALTH OFFICER SRK DATE

BUILDER
GREENFIELD HOMES, Inc.
6656 Luster Drive
Highland, Maryland 20777
410.781.6782

GRADING PLAN AND REVISED PERCOLATION CERTIFICATION PLAN
HAWKSFIELD ESTATES
LOT 6

TAX MAP 16&23 GRID 20
3RD ELECTION DISTRICT

LOT 6
HOWARD COUNTY, MARYLAND

STATE OF MARYLAND · ZACHARIA YOSEF FISCH · 22418 · PROFESSIONAL ENGINEER

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

DESIGN BY:	PS
DRAWN BY:	Slim
CHECKED BY:	ZYF
SCALE:	1"=50'
DATE:	Dec. 16, 2002
W.O. No.:	3128
SHEET No.:	1 OF 1

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