

LAYOUT: 10/21/03 9:30 INSP 4 \_\_\_\_\_  
 INSP 2 10/23 3rd trench done? INSP 5 \_\_\_\_\_  
 INSP 3 \_\_\_\_\_ INSP 6 \_\_\_\_\_

RPS# ?

ISSUE DATE: 10/14/2003

04-362705  
**PERMIT**  
**INDEXED**

P 519618

APPROVAL DATE: 10/24/03

A 514809

**ON-SITE SEWAGE DISPOSAL SYSTEM**  
**HOWARD COUNTY HEALTH DEPARTMENT**  
**BUREAU OF ENVIRONMENTAL HEALTH**

Fogles Septic Clean, Inc IS PERMITTED TO INSTALL  ALTER   
 ADDRESS: 580 Obrecht Rd, Sykesville PHONE NUMBER: 410-795-5670  
 SUBDIVISION: Warfield Estates LOT NUMBER: 4-B  
 ADDRESS: 3416 Shady Lane PROPERTY OWNER: Williamsburg Group, LLC  
 SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED   
 PUMP CHAMBER CAPACITY (GALLONS): N/A COMPARTMENTED TANK REQUIRED   
 NUMBER OF BEDROOMS: 4  
 SQUARE FEET PER BEDROOM: 210  
 LINEAR FEET OF TRENCH REQUIRED: 180 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 2.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 8.0 feet below original grade. Effective area begins at 4.0 feet below original grade. 4.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box as shown on approved site plan. Run trenches on contour, 3-60' trenches.
NOTES:	Basement service by gravity is proposed.

PLANS APPROVED: Steven R. Krieg OK SRK 10/7/03 DATE: 6/19/03

NOTES: PERMIT VOID AFTER 2 YEARS  
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS  
 WATERTIGHT SEPTIC TANKS REQUIRED  
 ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED  
 MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED  
 CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

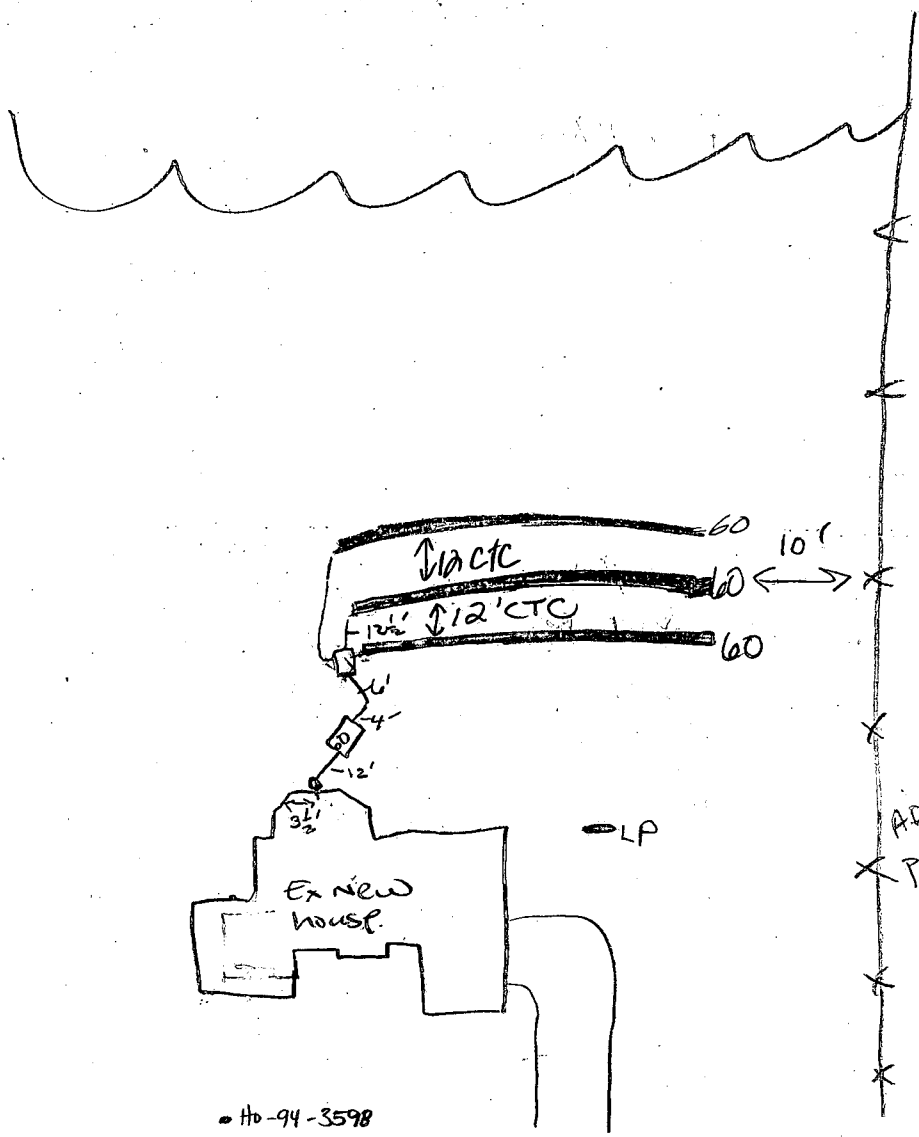
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

**BUILDING PERMIT SIGNED AND RETURNED** 0-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

10-21-03 800.144.540 - 500 gal UG PROPANE TANK  
 7-2805 800.155.218 - DECK

A514809

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
2'	4'	8'
NUMBER OF TRENCHES		3
TOTAL LENGTH		180'
ABSORPTION AREA		720 sq ft
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		NA

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	level
CAPACITY	1250 GAL
SEAM LOC	TOP
TANK LID DEPTH	18"-24"
BAFFLES	✓
BAFFLE FILTER	No
MANHOLE LOC	center
6" PORT LOC	front
WATERTIGHT TEST	No
SEPTIC TANK 2 LEVEL	NA
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____

SHADY LANE (ON W. side of Road) ROAD

PRE-CONSTRUCTION 10/21/03 SDA staked per newest perc cert plan.  
 Field verified width of SDA stake to stake. Set d box in middle @ top.  
 INSTALLATION Plumber has septic pipe coming out @ the bumpout rather than what is on plan. Sparky will jog the line over to set S.T. & d box per plan. OK TO START. Propane tank in ground already. BP not signed yet (KN) 10/22/03 OK TO COVER all work. START 3rd trench (KN) 10/23/03 septic complete (KB/SD)

BUILDING PERMIT SIGNED AND RETURNED

FINAL INSPECTOR *[Signature]*

DATE OF APPROVAL 10/24/03

C1 14355 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER 13 A14809

ST/CO USE ONLY DATE Received MM 12 DD 26 YY 02

DATE WELL COMPLETED MM 12 DD 23 YY 02 Depth of Well 510' (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 94-3578

OWNER Williamsburg Group LLC STREET OR RFD Shady Lane TOWN Glenwood SUBDIVISION Warfield Estates SECTION LOT 413

WELL LOG Not required for driven wells

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Entries: Sand (0-35), Gray Mica Rock (35-90)

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 15 NO. OF POUNDS 1410 GALLONS OF WATER 90 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 35 ft.

CASING RECORD casing types insert appropriate code below: ST (STEEL), CO (CONCRETE), PL (PLASTIC), OT (OTHER)

MAIN CASING Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 40

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD screen type or open hole insert appropriate code below: ST (STEEL), BR (BRASS), HO (OPEN HOLE), PL (PLASTIC), OT (OTHER)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES (Y) NO (N)

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 M SD 24 Joseph L. Mayne DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

DEPTH (nearest ft.) Ho 37 510

Table with columns: E, A, C, H, S, R, E, N. Rows: 8-11, 15-17, 21, 23-24, 26, 30-32, 36, 38-39, 41, 45-47, 51

SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W-Q 70 72 74 75 76 TELESCOPE LOG INDICATOR OTHER DATA

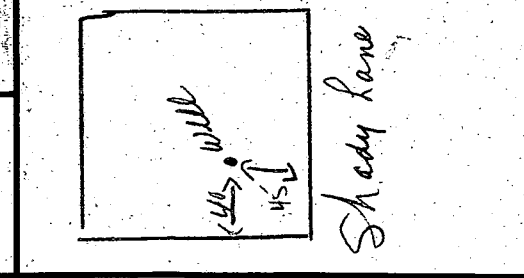
PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 15 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 25 ft. WHEN PUMPING 52 ft. TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES (NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) above below 3 (nearest foot) LAND SURFACE

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



10/23/03  
Anytime  
(see if 3' trench done)

**HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WATER AND SEWERAGE PROGRAM  
TEL: (410)313-2640 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

**NOTE:** The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: CHARLES A. KLEIN & SONS, INC. Telephone #: (410) 542-6960  
Address: 5220 KLEIN MILL ROAD  
SPRINGVILLE, MD 21784

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the final installation:  
Name (Print): MICHAEL F. KLEIN License # 6522

\*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: WILLIAMSBURG GRACY Telephone #: (410) 997-8800  
Subdivision: WARRIED ESTATES Lot #: 46 Well Tag #: HO-94-3598  
Site Address: 3416 SHADY LANE  
GLENDWOOD MD 21738

Submersible Pump Data

Make: JACUZZI  
Model #: 5545-13P52  
Pump Capacity 5 GPM  
Well Yield: 20 GPM

Pitless Adapter  
Make: HOWARD  
Model #: PT-800  
Depth: 42" (36" min)  
NSF approved:

Well Cap and Electric Conduit

Two piece watertight cap:   
Screened, vented well cap:   
Cap secured to casing:   
Conduit min 18" B.G.:   
Conduit secured to well cap:

Depth of well encountered at time of pump installation: 510 (feet)  
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4  
Torque arrestors or Cable guards are required - Must circle one  
Safety rope, if used, attached to inside of well casing with eye bolt

Pipeline to house

Type: POLYETHYLENE  
PSI: 1" (150 psi min)  
Depth of supply line: 36" (min)

House Connection

FVC sleeved to undisturbed soil at wall penetration: Yes  
Approximate length of sleeve: \_\_\_\_\_  
Sleeve caulked and sealed properly:

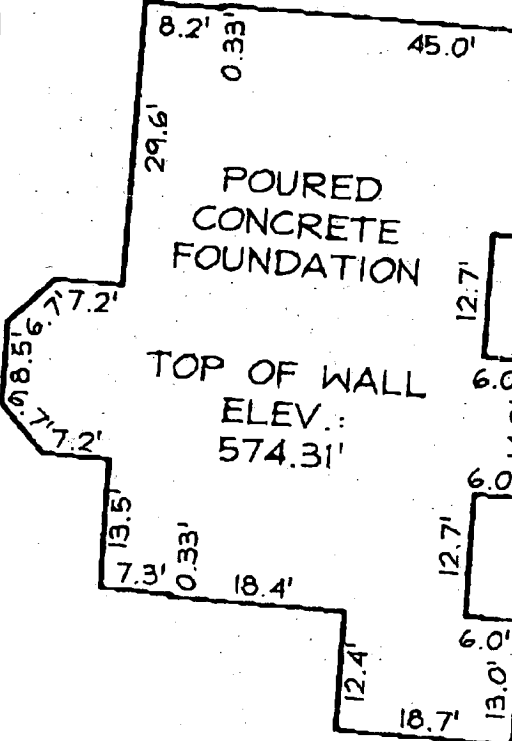
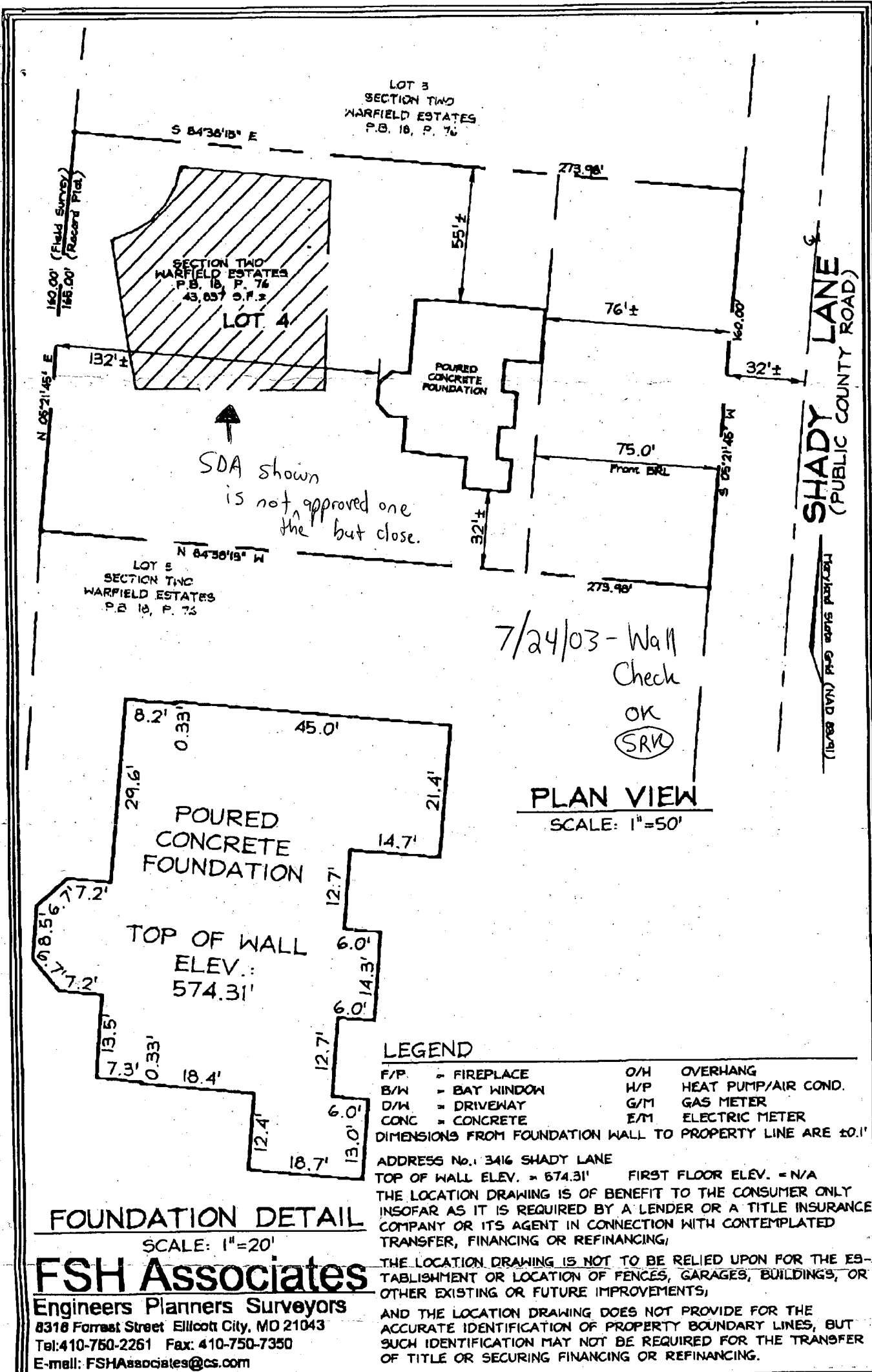
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

[Signature]  
Signature of company representative responsible for installation  
MICHAEL F. KLEIN date \_\_\_\_\_

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 10/23/03 Anytime Date Insp. Approved: 10/23/03 KB/50

- Inspection Data:
- Pitless adapter and water supply line at least 36" below grade
  - Two piece cap installed and attached to casing securely
  - Elec. conduit extends at least 18" below grade/attached to cap properly
  - Safety rope installed inside of well casing
  - Correct well tag attached properly and casing 8" above finished grade
  - Water supply line sleeved adequately at house connection
  - Adequate grant observed below pitless adapter



**LEGEND**

F/P	= FIREPLACE	O/H	OVERHANG
B/W	= BAY WINDOW	H/P	HEAT PUMP/AIR COND.
D/W	= DRIVEWAY	G/M	GAS METER
CONC	= CONCRETE	E/M	ELECTRIC METER

DIMENSIONS FROM FOUNDATION WALL TO PROPERTY LINE ARE ±0.1'

ADDRESS No. 3416 SHADY LANE  
TOP OF WALL ELEV. = 574.31' FIRST FLOOR ELEV. = N/A

**FOUNDATION DETAIL**  
SCALE: 1"=20'

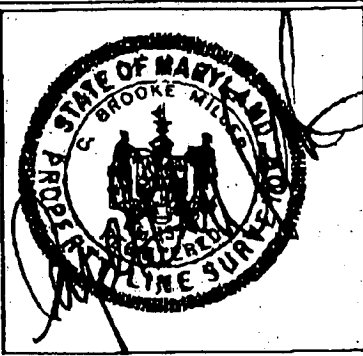
**FSH Associates**  
Engineers Planners Surveyors  
8318 Forrest Street Ellicott City, MD 21043  
Tel: 410-750-2261 Fax: 410-750-7350  
E-mail: FSHAssociates@cs.com

THE LOCATION DRAWING IS OF BENEFIT TO THE CONSUMER ONLY INSOFAR AS IT IS REQUIRED BY A LENDER OR A TITLE INSURANCE COMPANY OR ITS AGENT IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING.

THE LOCATION DRAWING IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS.

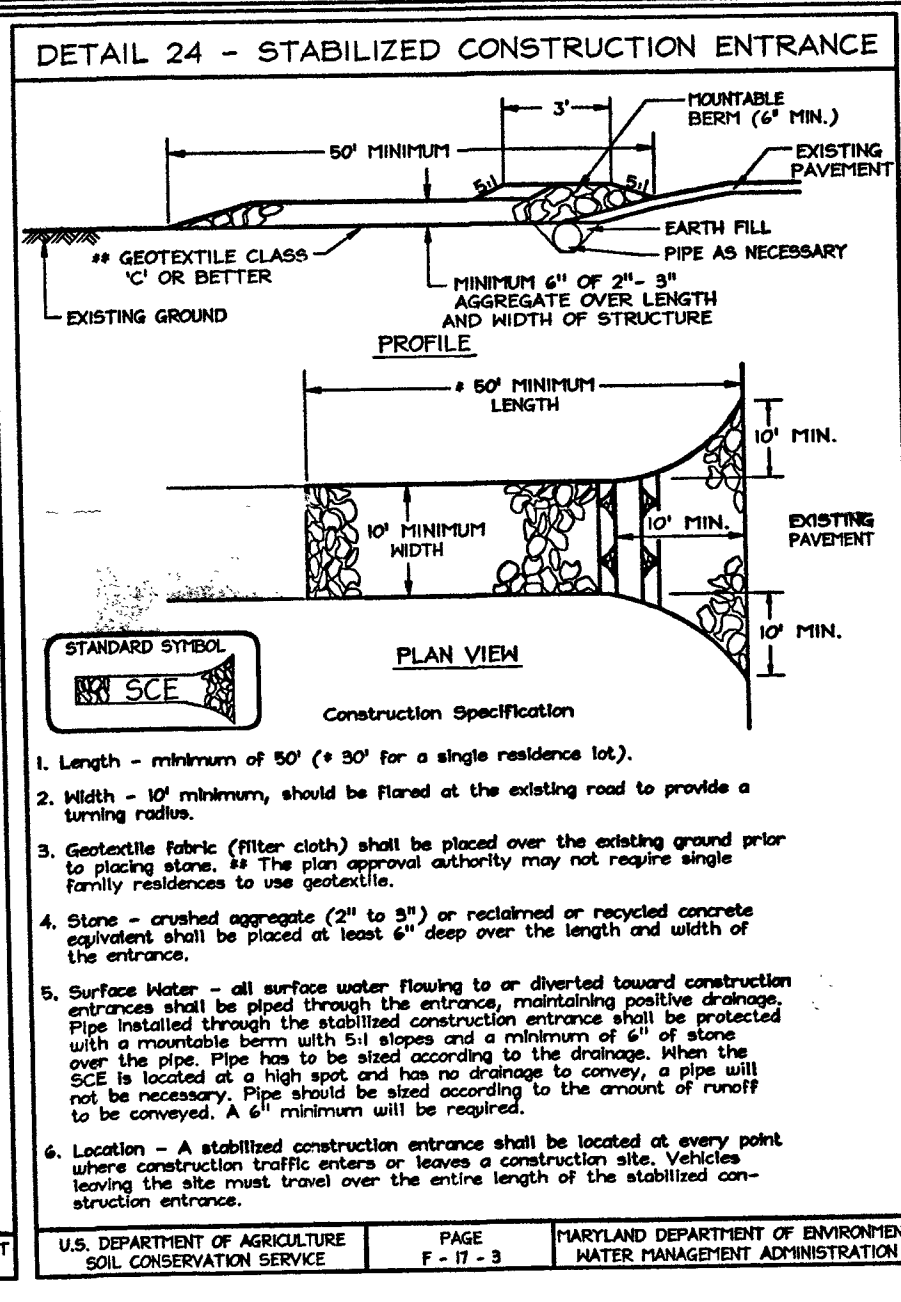
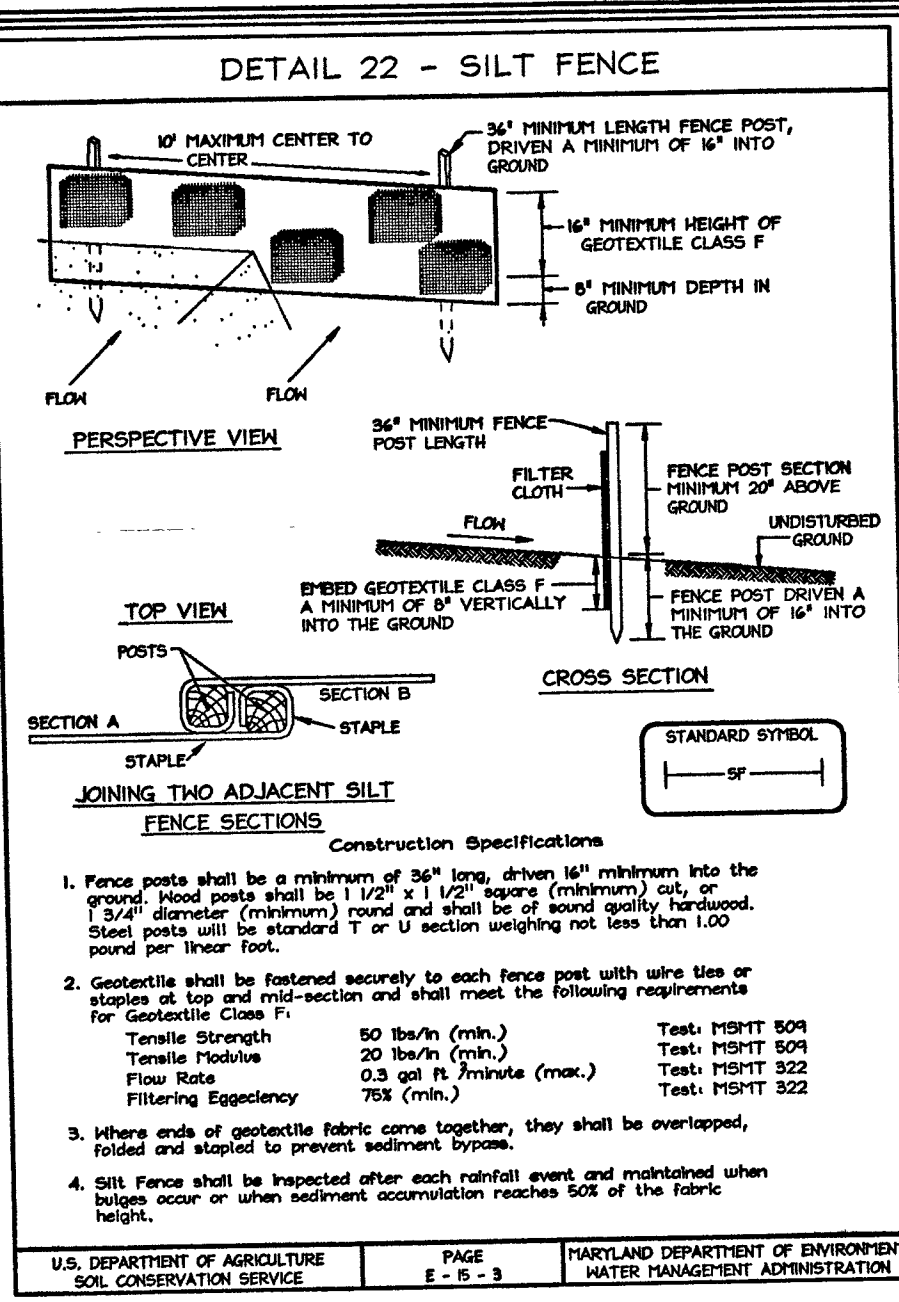
AND THE LOCATION DRAWING DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR REFINANCING.

LOCATION DRAWING	
FOUNDATION	Date: 07/11/03
FINAL	Date:
DRAWN BY:	GS
SCALE:	As Shown
W.O. No.:	3161



**WALL CHECK**

LOT 4  
WARFIELD ESTATES  
PLAT BOOK 18, PAGE 76  
3RD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND



### 2.0 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, moderate to high salinity, and/or unacceptable soil texture.

**Conditions Where Practice Applies:**

- This practice is limited to areas having 24 or flatter slopes where:
  - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
  - 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.
  - The original soil to be vegetated contains materials toxic to plant growth.
  - The soil is so acidic that treatment with lime/stone is not feasible.
- 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:**

- 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 Soil Survey published by USDA-NRCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand.
  - When soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority, topsoil shall not be a mixture of contrasting textures, nutrients and shall have less than 5% by volume of cinders, stone, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 and 1/2" in diameter.
  - Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, redtop, poison ivy, thistle, or others as specified.
  - Where the subsoil is either highly acidic or composed of heavy clay, 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. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

### SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permit Sediment Control Division prior to the start of any construction (918-1885).
- 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.
- 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 or to all other disturbed or graded areas on the project site.
- All sediment traps/basins shall 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, soil, temporary seeding, and mulching (Sec. 6). 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 their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 

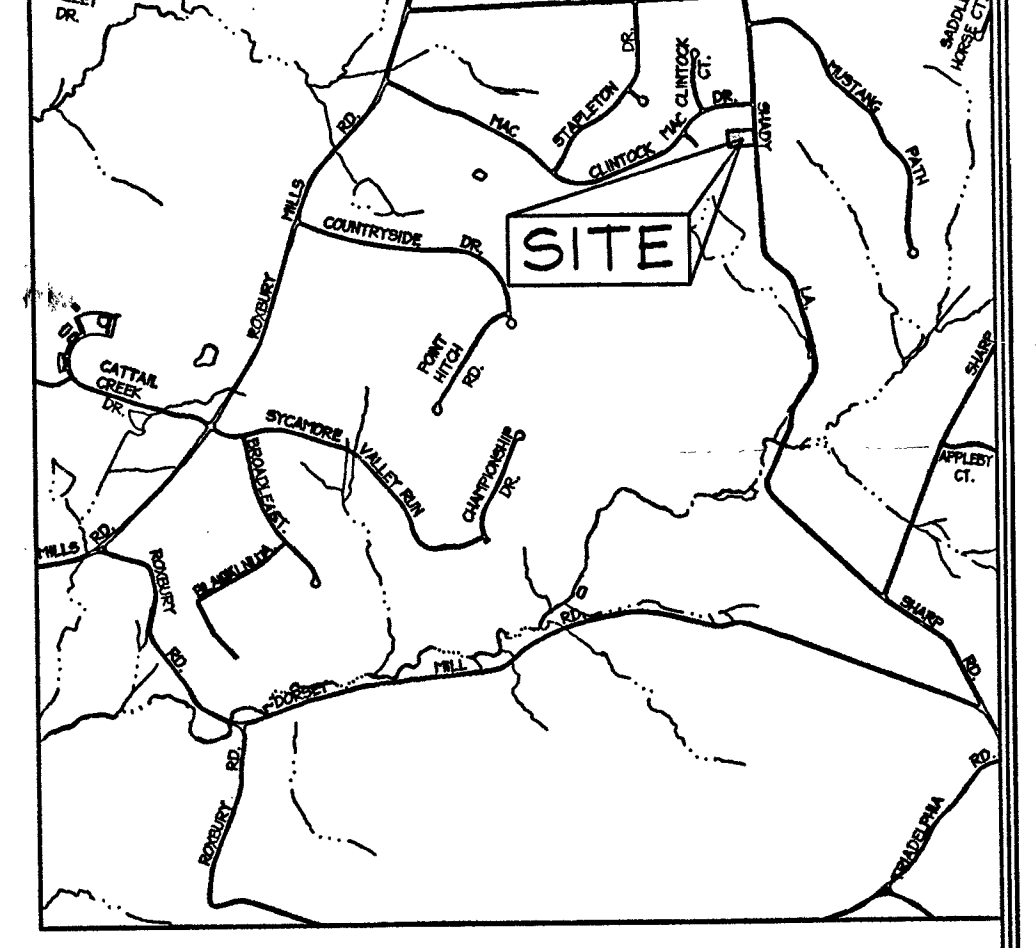
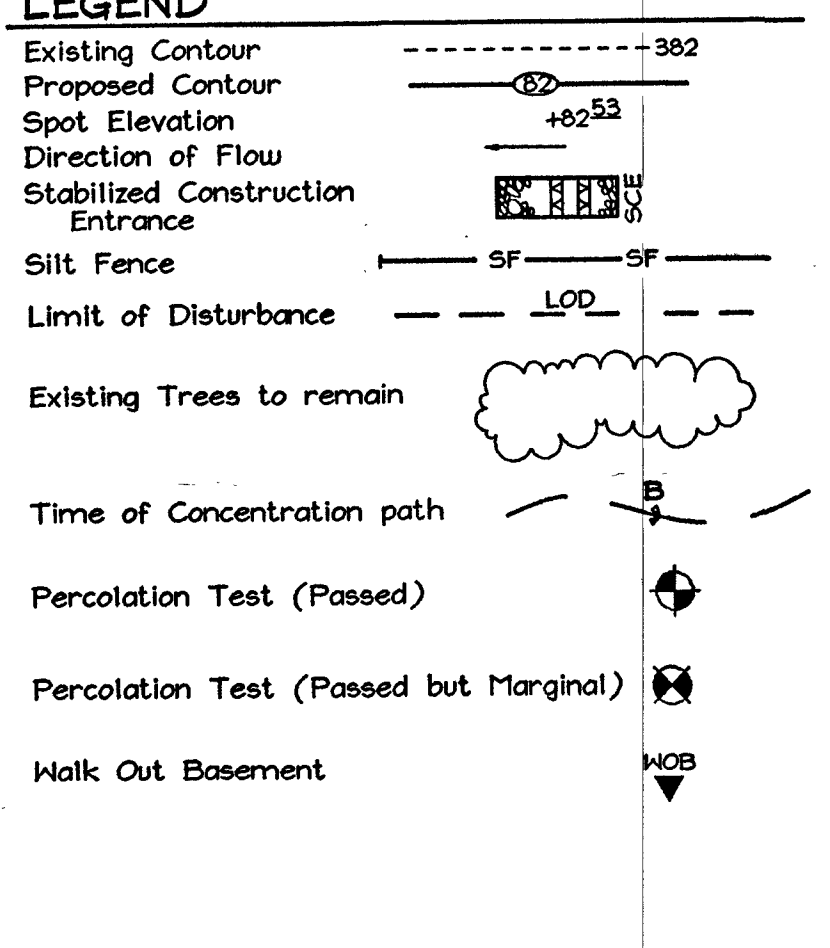
Total Area	1.01 Acres
Area Disturbed	0.46 Acres
Area to be roofed or paved	0.18 Acres
Area to be vegetatively stabilized	0.26 Acres
Total Cut	223.07
Total Fill	1630.07
Offsite waste/borrow area location	??
- Any sediment control practice which is disturbed by grading activity for placement of utilities 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 grading or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities are 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.

### SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
Ba	Baile Silt Loam	D
ChB2	Chester Silt Loam 3 to 8 Percent Slopes, Moderately Eroded	B
GIC2	Glencig Loam, 8 to 15 Percent Slopes, Moderately Eroded	B

### GENERAL NOTES

- Reference: P.B.18, P.76
- Topography is field located by C.B. Miller and Associates, Registered Land Surveyor, in October 2002.
- Contractor to confirm all dimensions, 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.
- Howard County Soil Map #14
- Subject property zoned RR-DEO per 10/18/93 Comprehensive Zoning Plan.
- Stormwater management is provided by rooftop and non-rooftop disconnects. See accompanying stormwater management report.



### SEQUENCE OF CONSTRUCTION

- Obtain Grading permit.
- Notify Howard County Department of Inspection, License and Permits at (410) 313-1880 at least 24 hours before starting any work.
- Install stabilized construction entrances and silt fence. (1 week)
- Clear, grub, and rough grade site. (1 week)
- Begin house construction. (2 weeks)
- Complete building construction, fine grade site. (2 months)
- During grading and after each rainfall, contractor will inspect and provide necessary maintenance to the sediment control measures on this plan.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.
- Upon stabilization of all disturbed areas and with the permission of the sediment control inspector, remove all sediment control measures and stabilize any remaining disturbed area. (1 week)

### PERMANENT SEEDING NOTES

**APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO LONG-TERM VEGETATIVE COVER IS NEEDED.**

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

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

- Preferred-Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (34 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 anhydrous fertilizer (14 lbs./1000 sq.ft.)
- Acceptable-Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and apply 600 lbs. per acre 10-10-10 fertilizer (34 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

**SEEDING:** For 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 Turf Type Tall Fescue per acre and 2 lbs. per acre (0.5 lbs./1000 sq.ft.) of seeding mix. During the period of October 16 thru February 28, protect site by Option (1) 2 lbs. per acre (0.5 lbs./1000 sq.ft.) of seeding mix or Option (2) 2 lbs. per acre (0.5 lbs./1000 sq.ft.) of seeding mix and 2 lbs. per acre (0.5 lbs./1000 sq.ft.) of straw. In the spring, Option (2) Use seed. Option (3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 lbs. per 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 200 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, reseedings and reseedings.

### TEMPORARY SEEDING NOTES

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

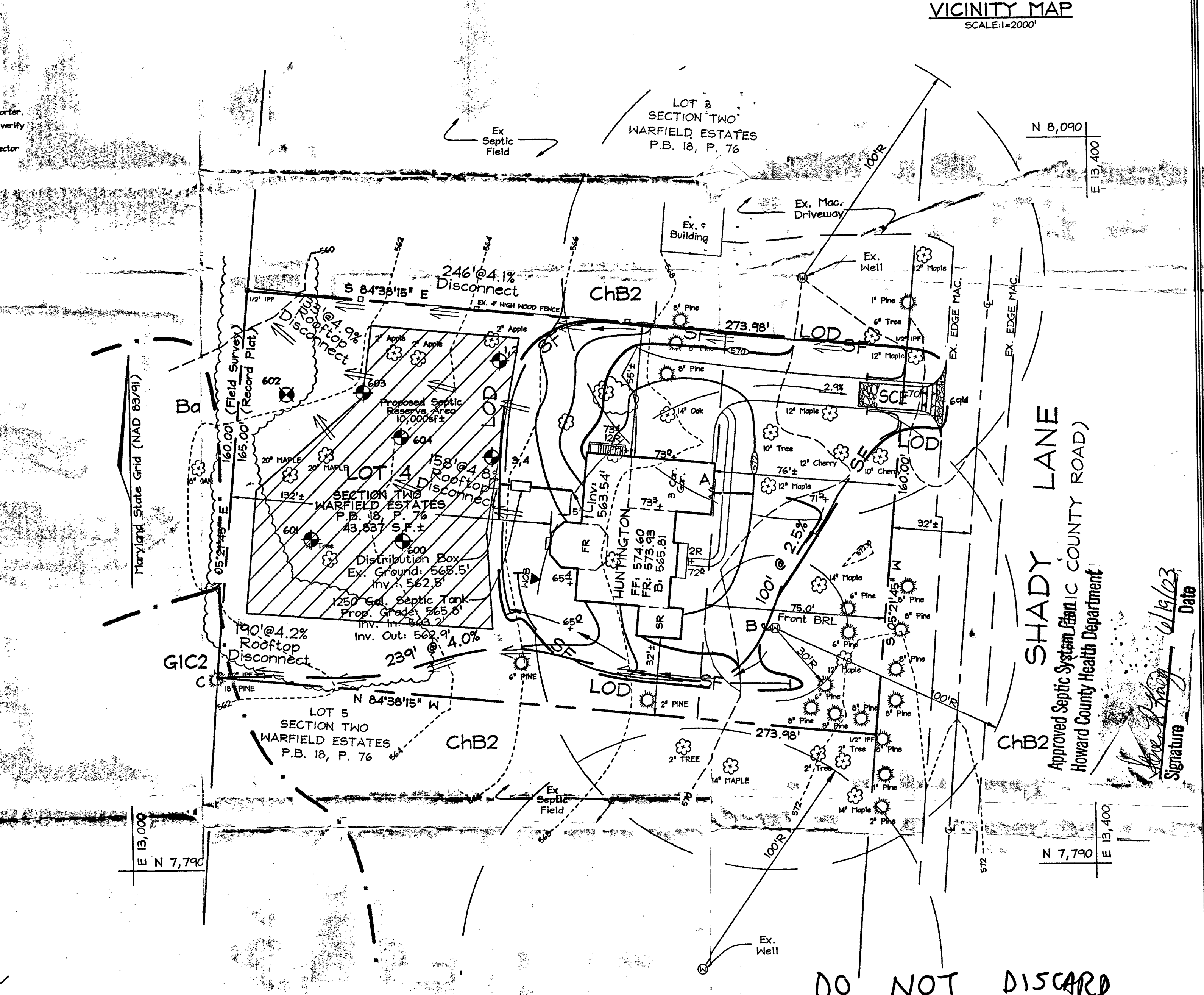
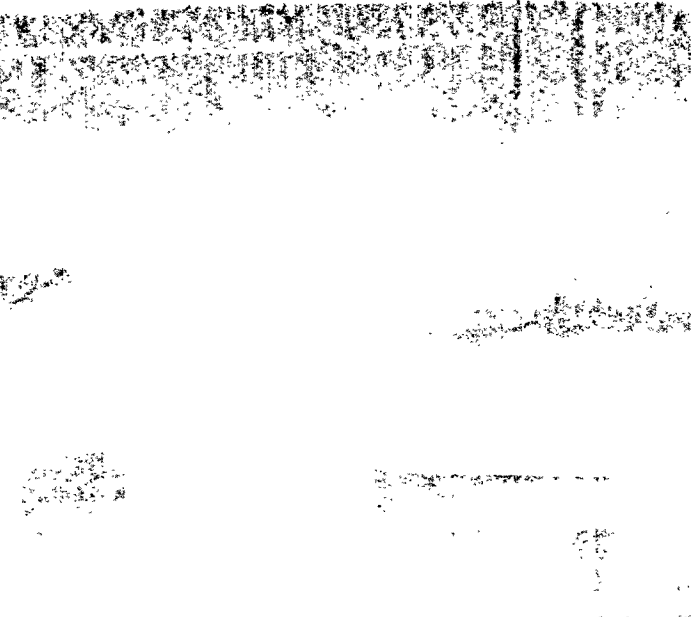
**SOIL AMENDMENTS:** Apply 600 lbs. per acre 10-10-10 fertilizer (34 lbs./1000 sq.ft.).

**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 seeding mix (0.7 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 seed.

**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 200 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.**

### HOUSE TEMPLATE



Note:  
This plan shows confirmation perc testing holes excavated on June 25, 2003 to verify presence/absence of water table. Although a 10,000 sf disposal area was not originally required at the time the lot was created, a 10,000 sf sewage disposal area has been established.

Approved Septic System Plan  
Howard County Health Department

Signature: *Steven R. Krieg* Date: 6/19/03

OWNER/DEVELOPER  
Williamsburg Group L.L.C.  
P.O. Box 1018  
Columbia, Maryland 21044

**DO NOT DISCARD**

**RE-PERCOLATION CERTIFICATION AND BUILDING PERMIT PLOT PLAN**  
**WARFIELD ESTATES**  
LOT 4

TAX MAP 21 GRID 04 PARCEL 234  
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN BY: FS  
DRAWN BY: Slim  
CHECKED BY: ZTF  
SCALE: 1"=30'  
DATE: July 22, 2003  
W.O. No.: 3151  
SHEET No.: 1 OF 1

**FSH Associates**  
Engineers/Planners/Surveyors  
6318 Forest Street, Ellicott City, MD 21043  
Tel: 410-750-2251 Fax: 410-750-7350  
E-mail: FSHAssociates@cs.com



B 1 8408

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

40-94-3598

W517978 please print or type

fill in this form completely

Date Received (APA)

11/02

OWNER INFORMATION

Williamsburg Group LLC
P.O. Box 1018
Columbia Md 21044

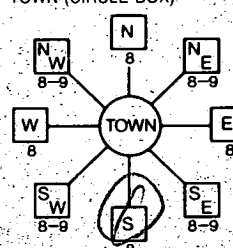
LOCATION OF WELL

Howard
Warfield Est
Blenwood

DRILLER INFORMATION

Joseph E. Mayne MS D 24
Joseph E. Mayne Well Drilling
5512 Ridge Rd. Mt Airy Md. 21278
10/25/02

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Shady Lane

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

50 FT DISTANCE FROM ROAD

TAX MAP: 21 BLK: PARCEL 234

WELL INFORMATION

APPROX. PUMPING RATE: 5 GAL. PER MIN.
AVERAGE DAILY QUANTITY NEEDED: 500 GAL. PER DAY

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
INDUSTRIAL, COMMERCIAL, DEWATERING
PUBLIC WATER SUPPLY WELL
TEST, OBSERVATION, MONITORING
GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard A14809
COUNTY NAME COUNTY NO
STATE SIGNATURE INSERT S
DATE ISSUED 12-5-02 Kasee Noonan 12-5-03
CO SIGNATURE EXP DATE
NORTH GRID 520 000 EAST GRID 790 000

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)
CABLE REVERSE-ROTARY DRIVE-POINT
other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- THIS WELL WILL NOT REPLACE AN EXISTING WELL
THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
THIS WELL WILL DEEPEMED AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER
PERMIT No. 40-94-3598

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

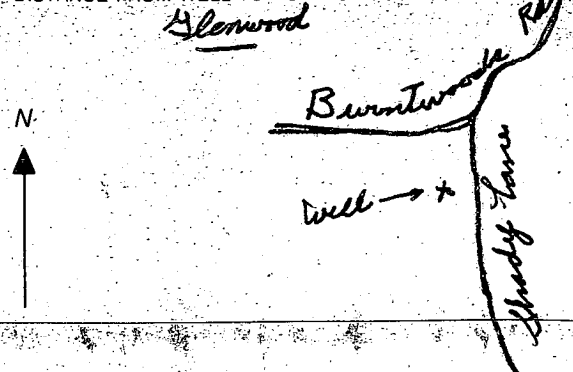
SOURCES OF DRILLING WATER

- well
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 790
N 520

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



# APPLICATION

RE-EVAL  
PERCOLATION TESTING

A 14809

P \_\_\_\_\_

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

DISTRICT \_\_\_\_\_

DATE 6/25/03

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 Williamsburg Group

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION Warfield Estates LOT NO. 4B

ROAD AND DESCRIPTION 3416 Shady Lane

TAX MAP 21 PARCEL # 04

SIZE OF LOT \_\_\_\_\_ TYPE BLDG. \_\_\_\_\_  
(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 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

14809

NOT TO SCALE

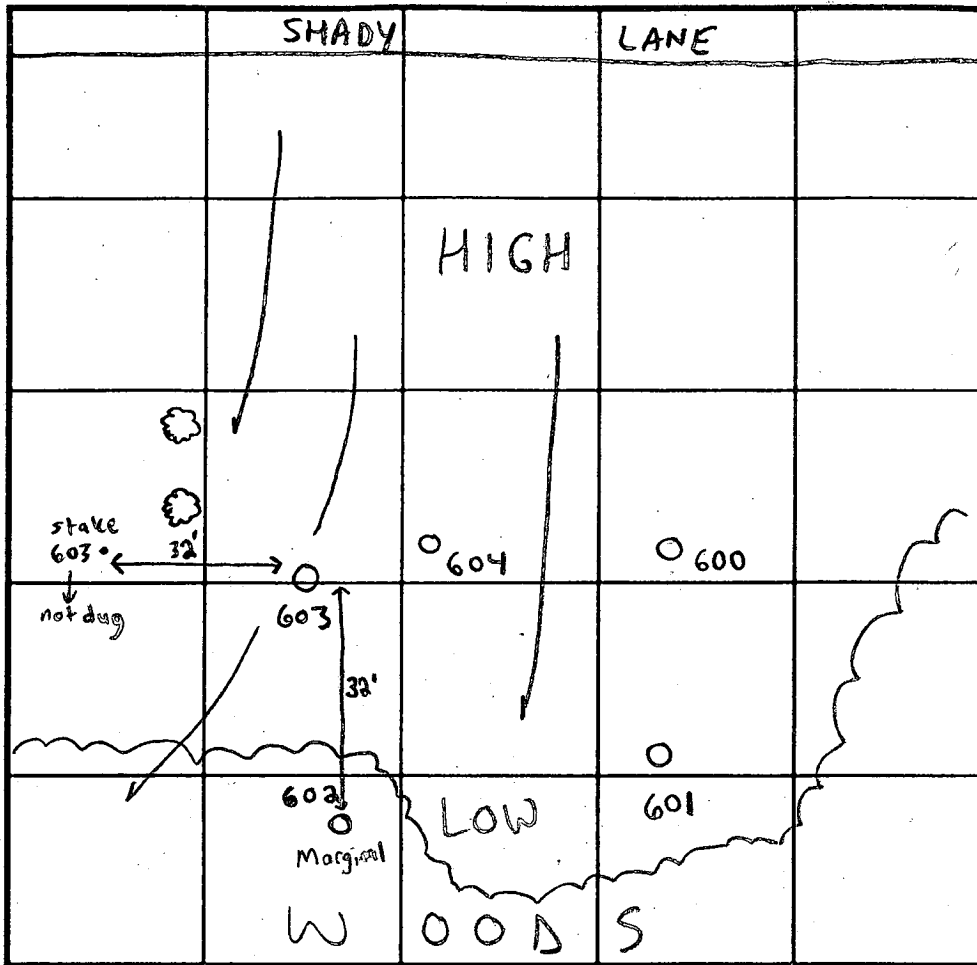
COUNTY #

SOIL PROFILE

600  
 0' org-brn to tan silt 1m  
 3' yellow-brn fine sandy 1m  
 NO ROCK  
 12'2"

601  
 2' org-brn to tan silt 1m  
 4' tan-brn sandy clay 1m  
 yellow-brn fine sandy 1m  
 NO ROCK  
 13'2"

602  
 2' brown 1m  
 3' tan-brn silt 1m  
 yellow-brn fine sandy 1m  
 25-30% ROCK FRAGS  
 HARD 8'4"



SOIL PROFILE

603  
 0' org-brn to tan silt 1m  
 2' tan-brn sandy clay 1m  
 4' yellow-brn fine sandy 1m  
 NO ROCK  
 11'4"  
 604  
 SEE 603  
 10'8"

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
6/25/03	600	12'2"V	(VISUAL OK)		NO	H <sub>2</sub> O	NA	OK
	601	13'2"V	"	"	"	"	"	OK
	602	8'4"V	"	"	"	"	NA	Marginal OK
	603	11'4"V	(VISUAL OK)		NO	H <sub>2</sub> O	NA	OK
	604	10'8"V	"	"	"	"	"	OK

REMARKS: Because of concerns with Baile soil type mapped below property, re-eval. of holes in wet season encouraged. Determination = Baile soil type is incorrectly mapped as no water was observed in holes & landscape position. TYPE OF SOIL does not support Baile soil type.

TESTED BY: SRK  
 ALSO PRESENT: Mark Johnson, Willie (Backhoe), Bob Corbett

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME: \_\_\_\_\_ TRENCH WIDTH: \_\_\_\_\_

INLET DEPTH: \_\_\_\_\_ MAXIMUM BOTTOM DEPTH: \_\_\_\_\_ SQ. FT./BEDROOM: \_\_\_\_\_

81 Head Vertical hole, in set line 15 ft deep 22

# APPLICATION

A 14809

SEWAGE DISPOSAL TESTING

P \_\_\_\_\_

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

ELLICOTT CITY

1000 Gal Tank

1250 Gal Tank

DISTRICT 4

DATE 9/16/69

Dry Well 420 soft sidewall area below inlet

Dry Well - 560 soft sidewall area below the inlet 3 1/2

Dry well inlet to be no deeper than 4 FT and bottom of dry well to be no deeper than 7 FT

Place the dry well 168 FT from the front lot line and 60 FT from the right side of the lot as seen

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

when facing the lot from Shady Lane

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

PROPERTY OWNER Stephen Walker *If tank necessary to run parallel with road more or less.*

ADDRESS 3420 SHADY LANE, GLENWOOD 21738 PHONE Any questions call: Mr. Silbermann 243-2584

PROPERTY LOCATION: 9300 Fontana Ave., Seabrook, Md. 20801

SUBDIVISION Marple Hill Farms Associates LOT NO. 4, Sec. 1

ROAD AND DESCRIPTION Shady Lane 3

OCCUPANT \_\_\_\_\_ PHONE \_\_\_\_\_

PERSON TO CONSTRUCT SYSTEM \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

SIZE OF LOT 160' x 268' TYPE BLDG. 3 or 4  
NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE \_\_\_\_\_

SIGNATURE OF APPLICANT /s/ MacClintock & Huster

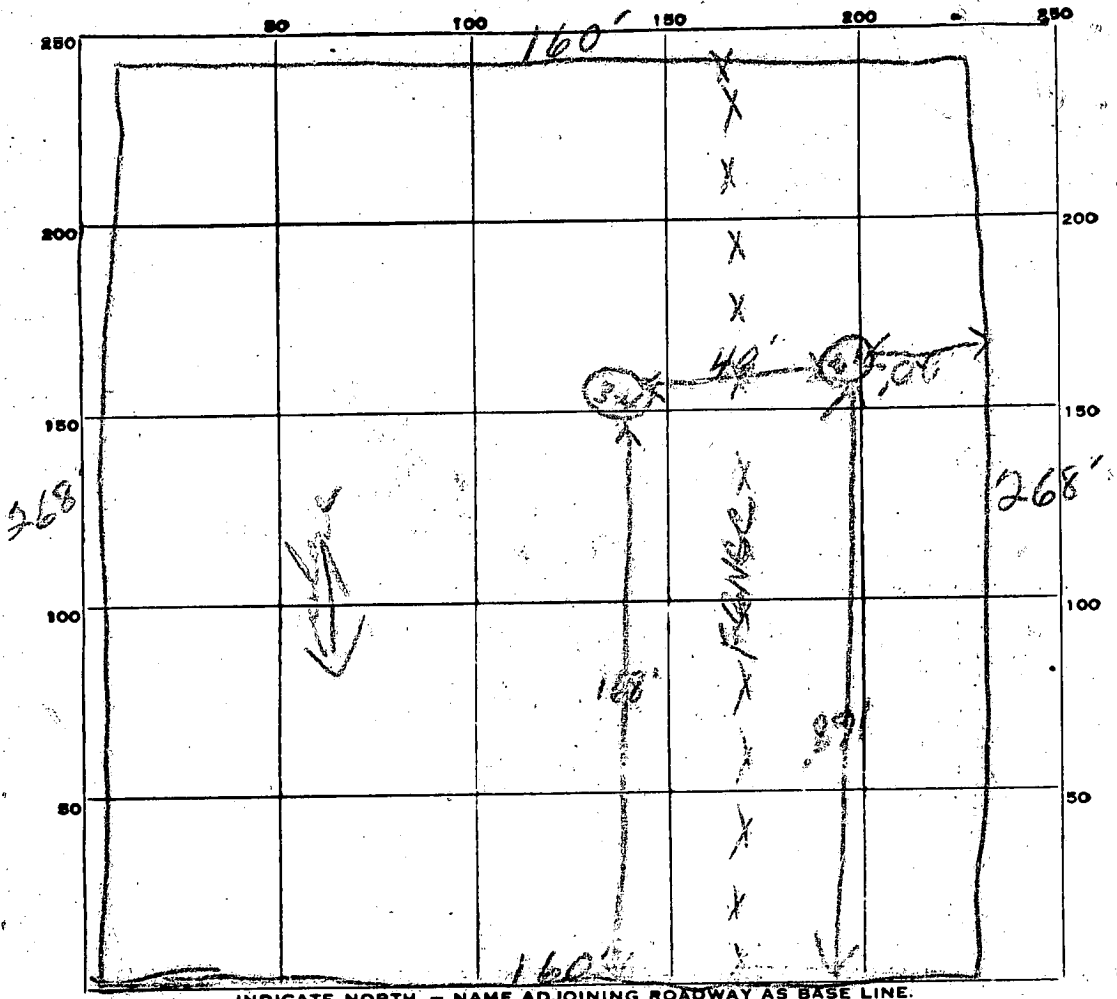
APPROVED BY Raymond Hodges FOR Dry Well DATE 1/12/72  
*approved by Sid Paul* (KIND OF SYSTEM) Trenches

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_  
(KIND OF SYSTEM)

HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

# THIS IS NOT A PERMIT



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

SHADY LANE

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11/2/61	1	10'	335	342	335	338	9 min
	2	4'	335	337	335	339	17 min
	3	10'	335	345	345	406	19 min
	4	4'	335	337	335	338	10 min

lot  
4  
see

SOIL AUGER FINDING \_\_\_\_\_

TESTED BY *JTS*

REMARKS *Hold for more test lines*

# APPLICATION

A 14809

P \_\_\_\_\_

SEWAGE DISPOSAL TESTING

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

ELLICOTT CITY

DISTRICT 4

DATE 9/16/69

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

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

PROPERTY OWNER Maple Hill Farms Associates

ADDRESS 9300 Fontana Ave., Seabrook, Md. 20801

Any questions call:  
Mr. Silbermann  
243-2584

PROPERTY LOCATION: \_\_\_\_\_

SUBDIVISION \_\_\_\_\_

LOT NO. 4, Sec. 1

ROAD AND DESCRIPTION \_\_\_\_\_

Shady Lane

OCCUPANT \_\_\_\_\_

PHONE \_\_\_\_\_

PERSON TO CONSTRUCT SYSTEM \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE \_\_\_\_\_

SIZE OF LOT 160' x 268'

TYPE BLDG. \_\_\_\_\_

3 or 4  
NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE \_\_\_\_\_

SIGNATURE OF APPLICANT /s/ MacClintock & Huster

APPROVED BY \_\_\_\_\_

FOR \_\_\_\_\_

(KIND OF SYSTEM)

DATE \_\_\_\_\_

REJECTED BY \_\_\_\_\_

FOR \_\_\_\_\_

(KIND OF SYSTEM)

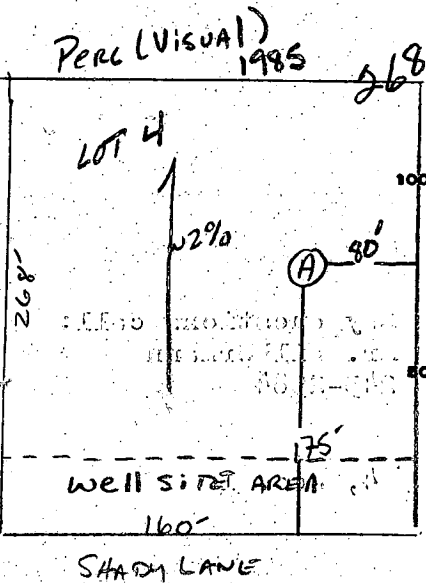
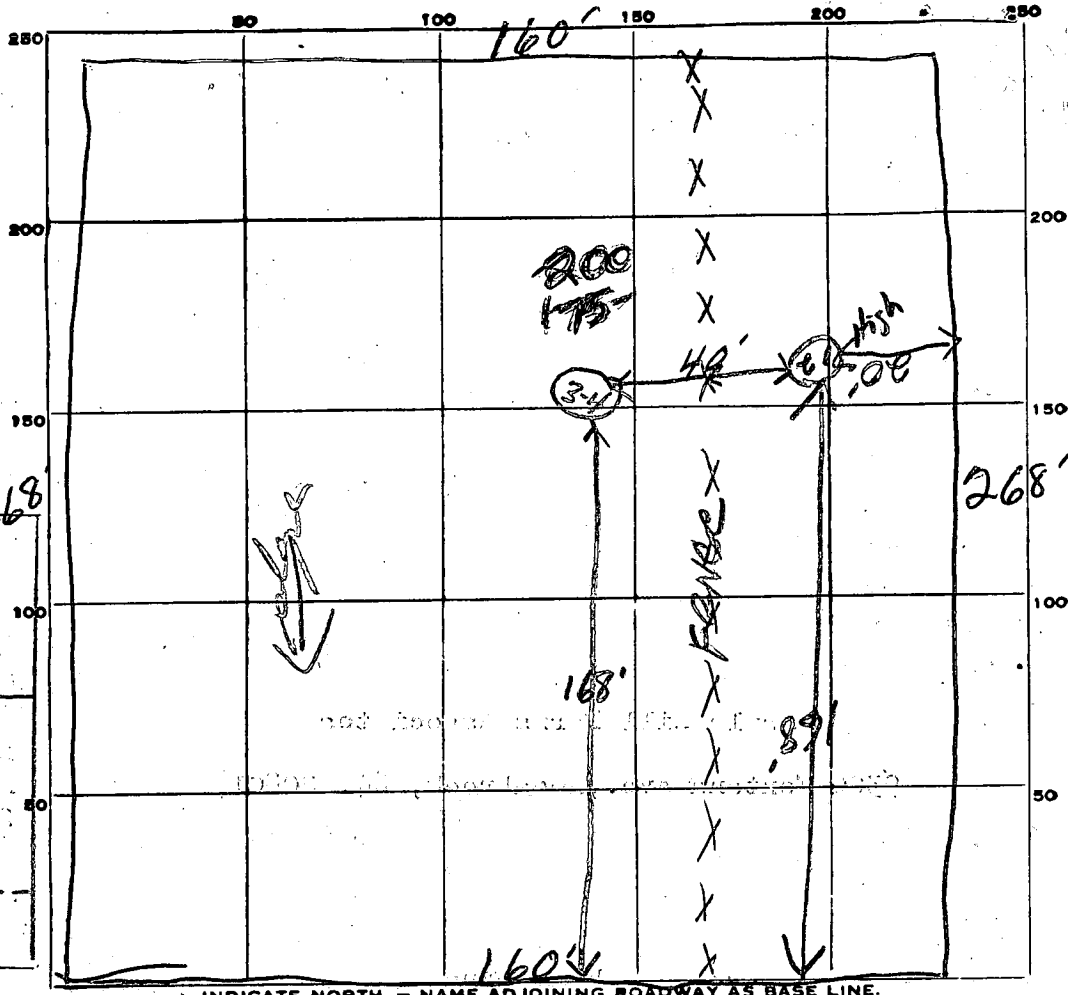
DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_

DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

# THIS IS NOT A PERMIT



Shady Lane

0' A1-3

6" BROWN CLAY LOAM 610% SAPROLITE

3' BROWN SAND LOAM slightly micaceous 210% SAPROLITE

14' NO WATER

NO WELL ON LOT

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10/23/69	1	10'	3 15	3 19	3 19	3 28	9 min
	2	4'	3 14	3 22	3 22	3 39	17 min
	3	10'	3 36	3 45	3 45	4 04	19 min
	4	4'	3 35	3 38	3 28	3 48	10 min

Lot 4 Sec 1

14' Max

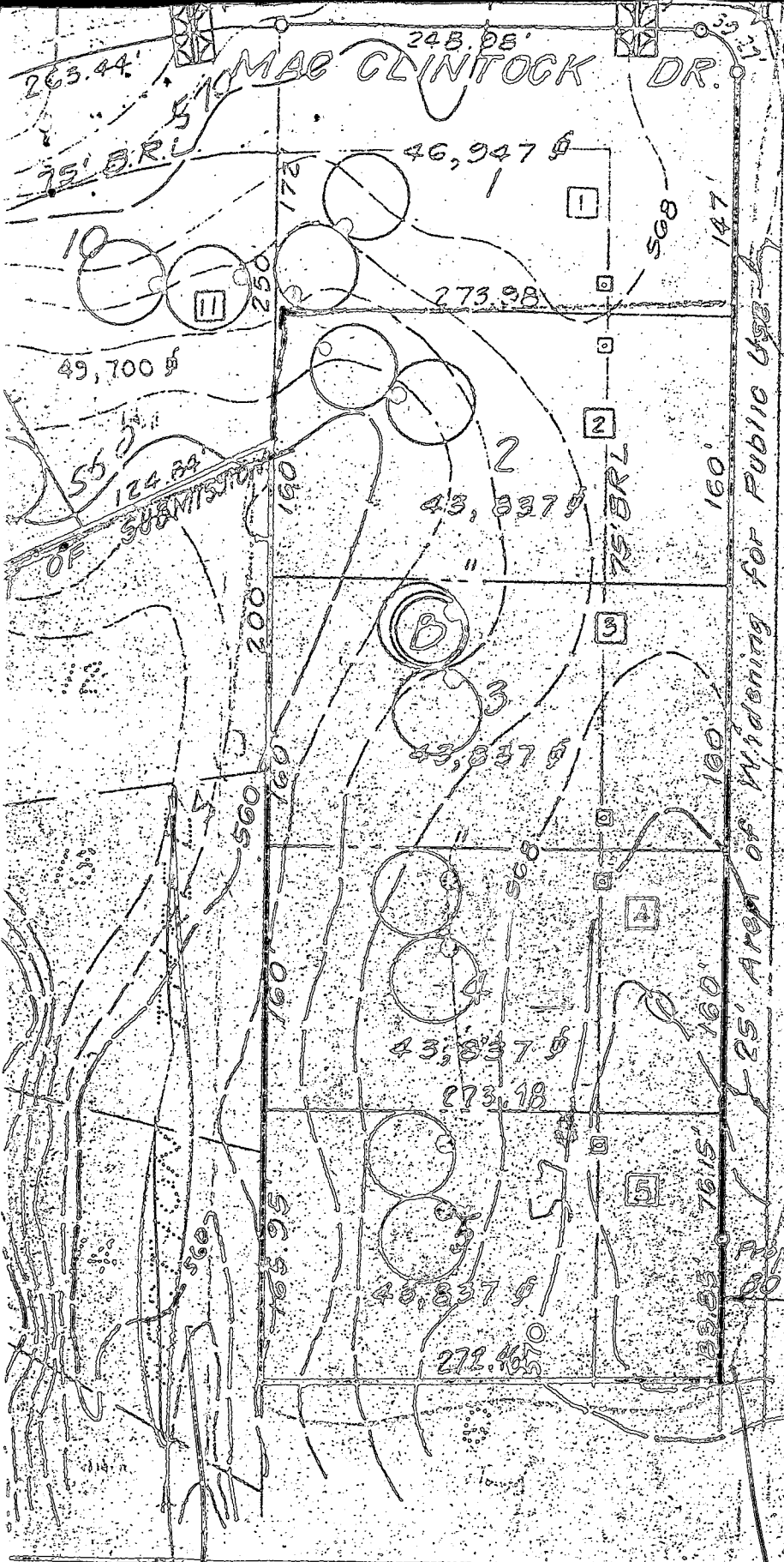
0' 10' 13'

✓ BOTTOM MAX 9'

SOIL AUGER FINDING \_\_\_\_\_

TESTED BY *[Signature]*

REMARKS *Held for near lat line*



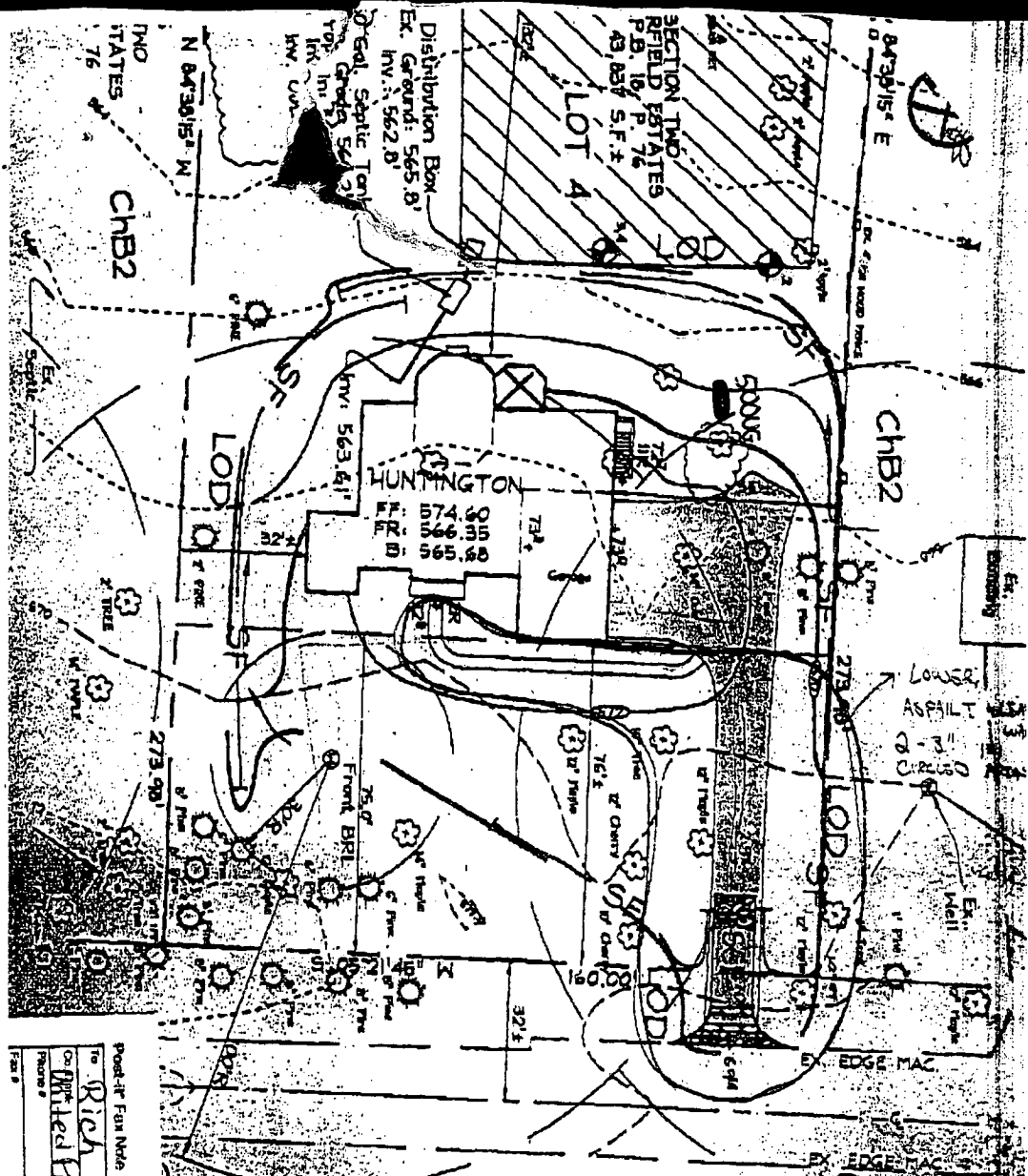
SHADY

APPROVED  
 DIVISION OF  
 LAND DEVELOPMENT  
 OFFICE OF  
 PLANNING AND ZONING  
 OF HOWARD COUNTY  
 DATE 11/10/70

Harvey Silber  
 HARVEY SILBER

P-70-28

FIELD ESTATES  
 HOWARD COUNTY, MARYLAND



SHADY LANE APPROVED BY: [Signature]  
(PUBLIC COUNTY ROAD) DATE: 10/21/03

MC CAN Change ORDER #1  
ATTACHMENT

Post-It Form Made	7071
To: Rich	From: 4/29/03 person # 1
Co: DWT	From: KIP Stover
Project: Witted Papers	Phone: 497-3345
Form #	Phone: 41-007-4358

ET LOWER LEADWALK 2"-3" FOR  
FUTURE PAVERS.

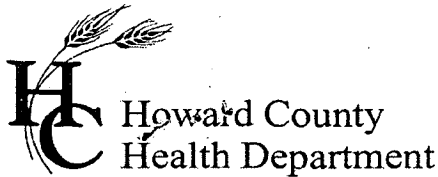
- LOWER DRIVEWAY 2"-3"-  
SEE CIRCLED AREA ON  
THIS PLAN.

500 GALLON  
UB UP  
TANK

10/21/03

BPO0144540  
OK (CN)

8/24/2003



3525 H Ellicott Mills Drive, Ellicott City, MD 21043  
(410) 313-1771 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

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

January 2, 2004

Charles (Kip) Stover  
Williamsburg Group  
P.O. Box 1018  
Columbia, MD 21044

RE: 3416 Shady Lane  
Warfield Estates, Lot 4B  
BP # B00141797  
Well Permit # 94-3598

Dear Sirs:

This is to advise you that the septic system for the above referenced property has been installed and inspected. Final approval of the septic system was granted on October 24, 2003.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

#### INTERIM CERTIFICATE OF POTABILITY

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #94-3598. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 12/11/2003, 12/15/03 & 12/31/2003  
Date of Well Completion: 12/23/2002

Approving Authority,  
*Mark E. Rifkin*  
Mark Rifkin  
Registered Environmental Sanitarian  
Well & Septic Program

mlb  
cc: Building Inspector's Office  
Community Health Services  
File

LOT 3  
SECTION TWO  
WARFIELD ESTATES  
P.B. 18, P. 76

S 84°38'15" E

APPROVED

WALK-THRU BUILDING PERMIT

BP# 800155218 A# 514809

APP. 8/28/98

DATE: 7/28/05

DESC. OF WORK:

Deck 11' from S.T. OK

SECTION TWO  
WARFIELD ESTATES  
P.B. 18, P. 76  
49,837 S.F. ±

LOT 4

Propane Tank

59' to side line

54.5' ±

MAC.

MAC.

75.8' ±

160.00'

32'

Deck

2' ON

2-STORY  
BRICK AND  
FRAME

2' ON

3' CONC. WALK

133' TO Back Line

8.7' to side line

2' ON

CONC. PAD

75.0'

Front BRL

S 05°21'45" W

31.5' ±

Well Tag #: 10-94-3598

SHADY LANE  
(PUBLIC COUNTY ROAD)

N 84°38'15" W

SECTION TWO  
WARFIELD ESTATES  
P.B. 18, P. 76

169.27'