

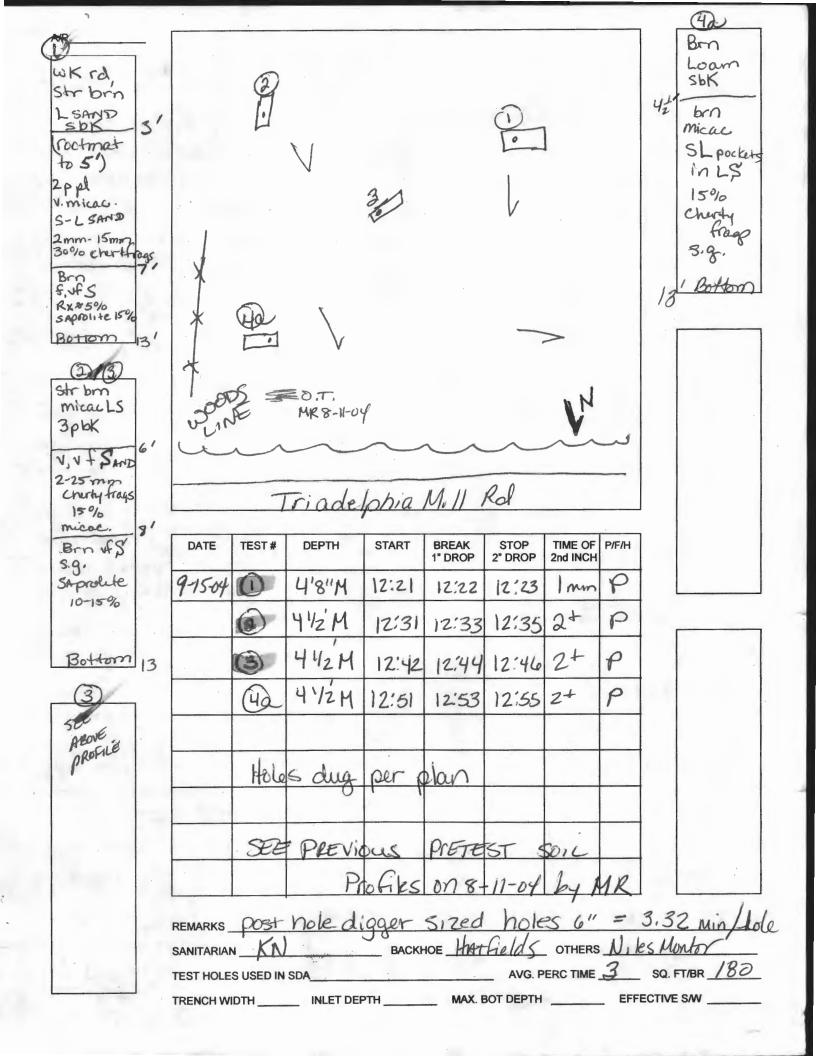
APPLICATION

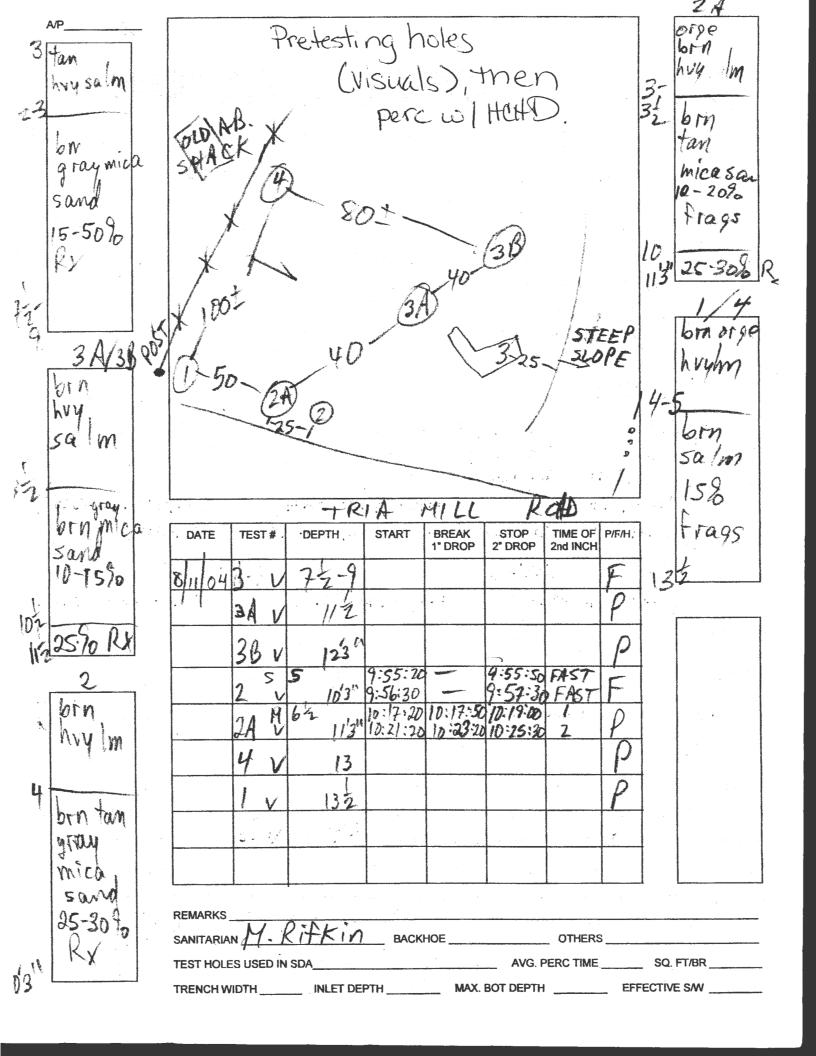
FOR PERCOLATION TESTING AND SITE EVALUATION

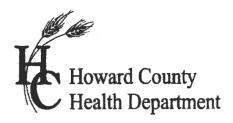
0.1	-1.1			6-	r 0
TEST DATE(S) <u>9//</u>		TEST		- (A)P-	5 20852
AGENCY REVIEW: _	Percolation testin	of for exi	stone lot	DATE _	8/31/2004
/	Vew house to	be built			
	DO NOT	WRITE ABOVE	THIS LINE		
CHECK AS NEEDED CONSTRUCT REPAIR/ADD	E NECESSARY TESTING/EVALUAT): NEW SEPTIC SYSTEM(S) TO AN EXISTING SEPTIC SYSTEM EXISTING SEPTIC SYSTEM	C (NCE OF SEWAGE DISPOSE CHECK AS NEEDED: NEW STRUCTURE(SOLUTION TO AN EXICURE AN EXIST) ISTING STRUCTURE	(S) TO:
	LOT(S) EXISTING LOT IN A SUBDIVISION EXISTING PARCEL OF RECORD	Ţ	S THE PROPERTY WITHII YES NO	N 2500' OF ANY RESE	ERVOIR?
☐ COMMERCIAL ☐ INSTITUTIONAL	/ITHPROPOSED B (PROVIDE DETAIL OF /GOVERNMENT (PROVIDE DET	F NUMBERS AND TYPE FAIL OF NUMBERS AND	MPLETED STRUCTURE (S OF EMPLOYEES/ CUST O TYPES OF EMPLOYEES	TOMERS ON ACCOM	Panying Plan)
	Nies Monter				
	10-977-0864 CI				0-2157
MAILING ADDRESS	STREET Jason	Lnor Ave?	<u>Columbia</u>	2/040 STATE	ZIP
APPLICANT Greg	Philips				
DAYTIME PHONE	CE	ELL	F	AX	
MAILING ADDRESS					
	STREET		CITY/TOWN	STATE	ZIP
APPLICANT'S ROLE:	DEVELOPER BUILDER	BUYER	RELATIVE/FRIEND	REALTOR	CONSULTANT
PROPERTY LOCATION SUBDIVISION/PROPER	RTY NAME <u>Pancel</u>	73	_	LOT NO)
PROPERTY ADDRESS	, SINCEI	HIA MILL	(D) TOWN/POS	T OFFICE	
TAX MAP PAGE(S)	34 GRID	PARCEL(S) / 1	3 PRO	POSED LOT SIZE	
AS APPLICANT, I UNDI	ERSTAND THE FOLLOWING: T	HE SYSTEM INSTAL	LED SUBSEQUENT TO	THIS APPLICATION	N IS ACCEPT-
ABLE ONLY UNTIL PU	BLIC SEWERAGE IS AVAILABLE	. THIS APPLICATIO	ON IS COMPLETE WHE	N ALL APPLICABLI	E FEES AND A
SUITABLE SITE PLAN	HAVE BEEN RECEIVED. I ACC	EPT THE RESPONS	IBILITY FOR COMPLIA	NCE WITH ALL M.C	D.S.H.A. AND
"MISS UTILITY" REQUI	REMENTS. APPROVAL IS BAS	ED UPON SATISFAC	CTORY REVIEW OF A F	PERC CERTIFICATI	ON PLAN.
TEST DESILITS MARIE	RE MAII ED TO 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

SIGNATURE OF APPLICANT







APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S)	TEST TIME	A 5 2085 2			
AGENCY REVIEW:		DATE 8/31/2004			
DO NOT V	MOITE ADOME THIS LINE				
DO NOT V	VRITE ABOVE THIS LINE				
HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION CHECK AS NEEDED: CONSTRUCT NEW SEPTIC SYSTEM(S) REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM REPLACE AN EXISTING SEPTIC SYSTEM	CHECK AS NEEDED: NEW STRUCTU ADDITION TO A REPLACE AN E	IRE(S) IN EXISTING STRUCTURE 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 V IN YES INO	VITHIN 2500' OF ANY RESERVOIR?			
COMMERCIAL (PROVIDE DETAIL OF NI INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL	UMBERS AND TYPES OF EMPLOYEES/	JRE (NOTE <i>UNKNOWN</i> IF APPROPRIATE) CUSTOMERS ON ACCOMPANYING PLAN) YEES/USERS ON ACCOMPANYING PLAN)			
PROPERTY OWNER(S) N 115 MONTON					
DAYTIME PHONE 410-977-0864 CELL	410-977-2864	FAX 410-730-2157			
MAILING ADDRESS TO 10544 Jasos C	on col, rD	21044			
STREET	CITY/TOWN	STATE ZIP			
APPLICANT GOLEY PLINIES					
DAYTIME PHONE LID-977-0664 CELL	412-9772 0864	FAX LID-730 7157			
MAILING ADDRESS					
STREET	CITY/TOWN	STATE ZIP			
APPLICANT'S ROLE: DEVELOPER BUILDER	BUYER RELATIVE/FRIEND	D REALTOR CONSULTANT			
PROPERTY LOCATION SUBDIVISION/PROPERTY NAME Pancel 173	>	LOT NO			
PROPERTY ADDRESS Triade Quille STREET	R Mill Rd	/POST OFFICE			
. 1					
TAX MAP PAGE(S)	ARCEL(S) 173	PROPOSED LOT SIZE			
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE	SYSTEM INSTALLED SUBSEQUEN	IT TO THIS APPLICATION IS ACCEPT-			
ABLE 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.					

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

439 East Main Street Westminster, MD 21157-5539



June 8, 2017

Howard County Health Department 8930 Stanford Blvd Columbia, MD 21045

Attn: Mr. Hank Oswald

Environmental Sanitarian

RE: 13571 Triadelphia Mill Rd, Charles Dorsey Property

CLSI Job No.: 2005004

Dear Mr. Oswald,

We offer the following responses to your comment letter dated May 2, 2017:

- 1. The SDA has been revised to match the most recent percolation certification plan on record, per your sketch.
- 2. Due to the fact that this is an existing lot of record, we are showing one existing well and one alternative well site. We have relocated the alternative well site so that it is not down-gradient of the septic system.
- 3. The pump curve chart has been revised to reflect the 70 gpm capacity, which is within the pump's design ratings. However, our design indicates a 30 gpm dosage in order to ensure system reliability.

Should you have any questions or concerns, please feel free to contact our office.

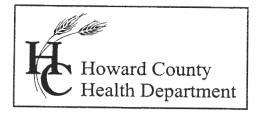
estandu

Linda Alexander

Associate/ Project Manager

Cc: File

Sincerely.



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

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

September 22, 2004

Niles Morton P.O. Box 197 Clarksville, MD 21029

RE: Percolation Test Results: A520852

Tax Map: 34 Parcel: 173

Dear Mr. Morton:

Percolation testing was conducted September 15, 2004, on the above referenced property. Copies of the percolation test results are enclosed.

A registered engineer should submit a Percolation Certification Plan showing the following information to this office at this time:

- actual locations and elevations of all excavated test holes, identifying holes dug by Private Consultant and the other holes by Howard County Health Department
- a proposed building site and well site for the proposed structure
- locations of all surrounding wells and septic systems down slope or closer than 100' from the property
- locations of any existing structures on the property
- locations of streams/swales/springs and any other features on or near the property (west side)
- field matched contour lines at 2-foot intervals
- shade slopes of 25% or greater

If you have any questions regarding this matter, please contact me at the address below or by calling (410) 313-1771. Thank you in advance for your time and cooperation.

Sincerely,

Kacie Noonan, R.S.

Well and Septic Program

KN

Enclosures

Cc: file

MARK E. RIFKIN, R.S. INDEPENDENT SEPTIC AND WELL CONSULTANT

P.O. Box 21166, Baltimore, MD 21228 410-227-6161

SepticConsulting@aol.com

August 12, 2004

Niles Morton P.O. Box 197 Clarksville, MD 21029

RE: Preliminary Percolation Test Results

Triadelphia Mill Road, TM 28, Parcel 173

Dear Mr. Morton:

Preliminary percolation testing conducted August 11, 2004 on the referenced property indicated limited satisfactory soil conditions. The primary limiting factors are shallow bedrock and excessive fractured rock producing fast test times at the downhill test locations. Copies of the test results will follow via standard mail.

In order to avoid these rock issues, an additional test hole was excavated 25-30 feet uphill of each of original locations 2 and 3, producing a potential septic reserve area of 6000 ft² +/-. Although this area is less than the 10,000 ft² now requested by the Health Department and other potential test locations are available to the rear, testing in these locations would severely impact the optimum house and well locations. Both the house and well locations would be shifted to the front, producing grading and site restrictions for the proposed house and placing the well closer and indirectly downslope of an approved septic reserve area on the adjacent residue of parcel 64.

The current layout produces the best combination of house site, well site and septic reserve area.

Submission of a proposal to the Health Department for official testing should include a site plan showing the following:

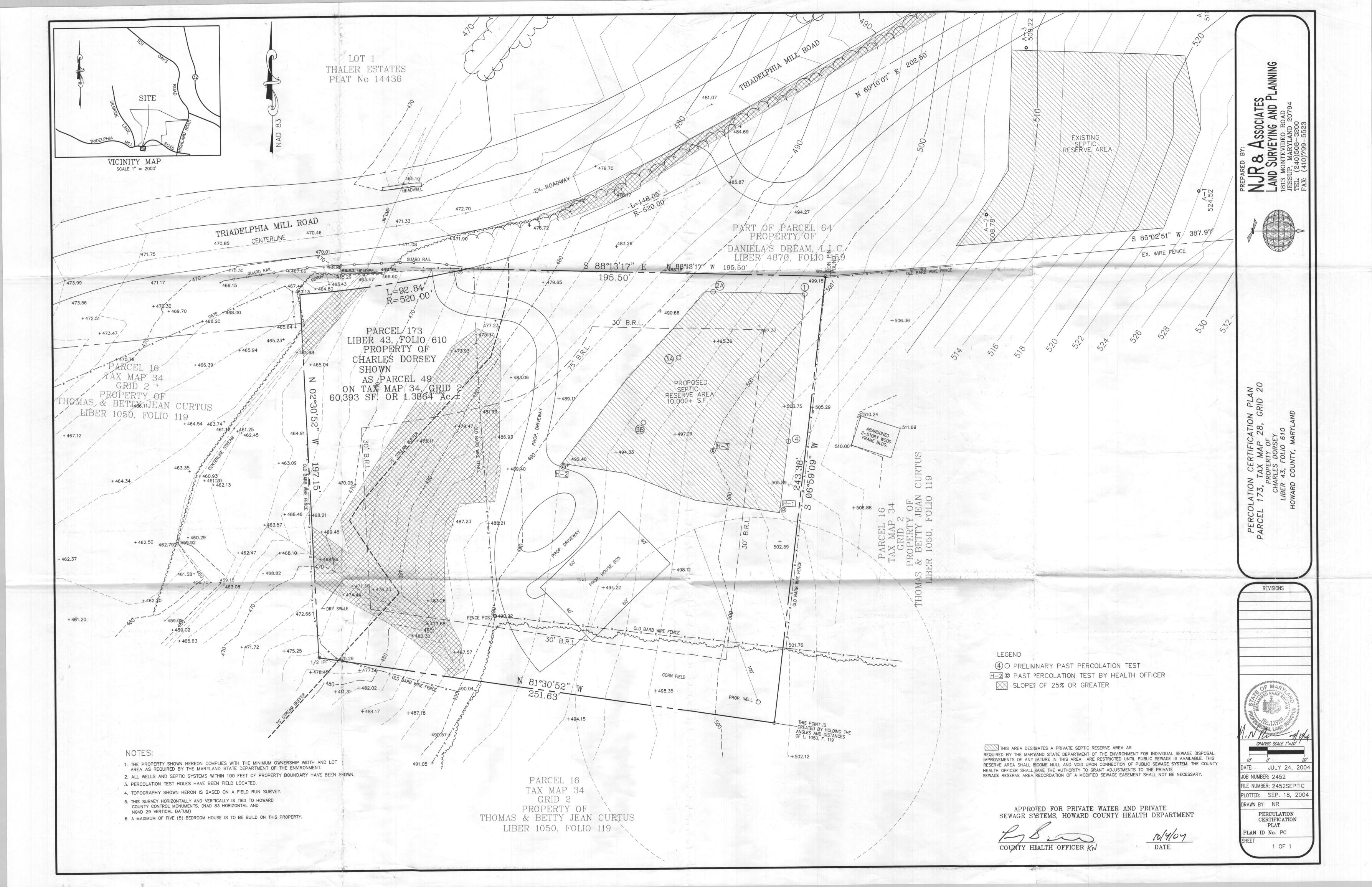
- 1) actual locations of all excavated test holes, suitably identified as preliminary, and identified as passed or failed
- 2) proposed sewage reserve area based on the passed preliminary holes
- 3) proposed official test holes five to ten feet from each of the passed preliminary holes
- 4) soils map information and shading of slopes in excess of 25%
- 5) proposed house and well sites
- 6) the approved septic reserve on the adjacent residue of parcel 64
- 7) statement that all adjacent wells and septic systems have been shown.

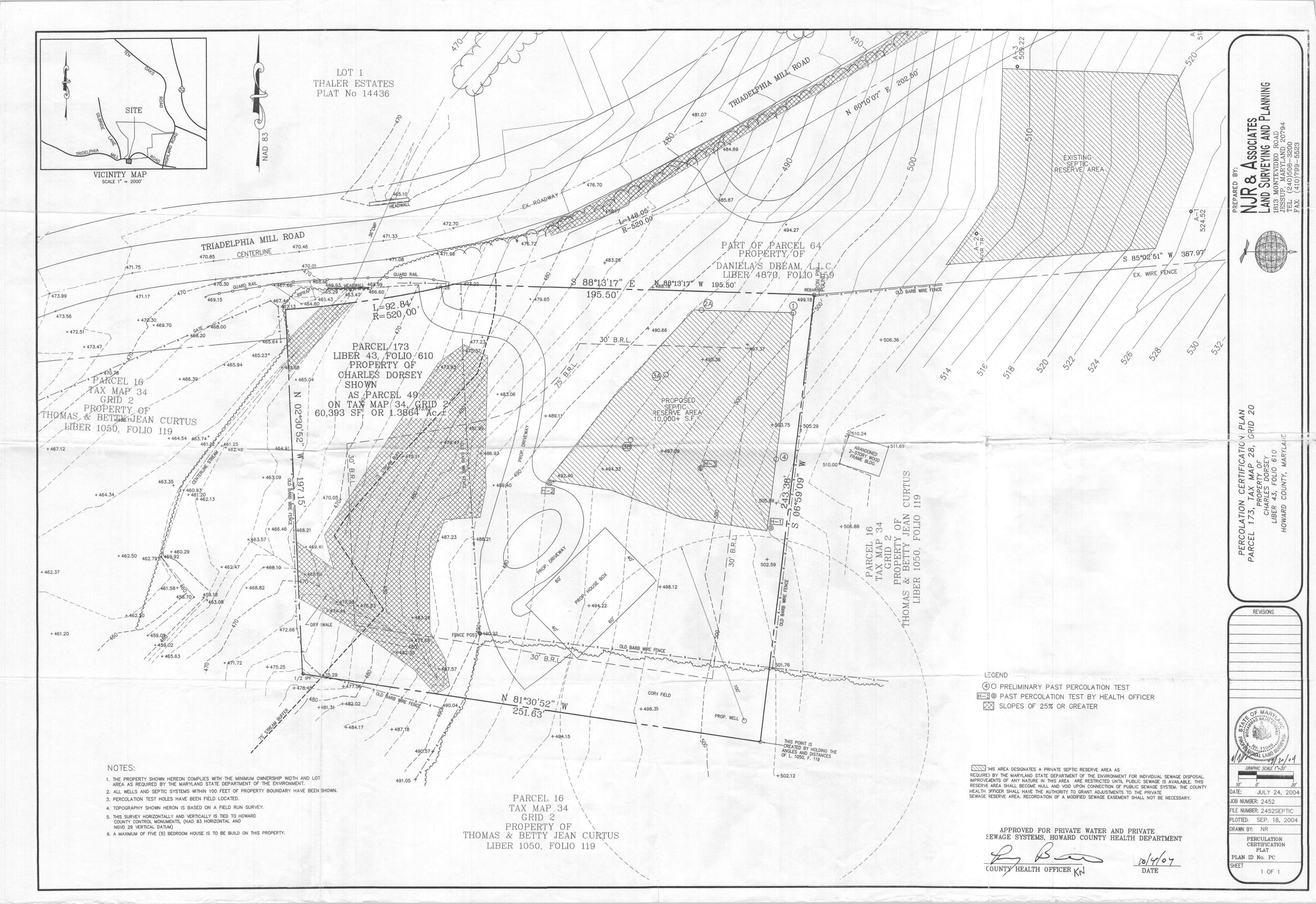
The site plan should also be accompanied by a copy of this letter and the forthcoming test results. If you have any questions, please contact me according to the above information.

Sincerely,

Mark E. Rifkin, R.S.

cc: Greg Phillips





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 (3 13-1855). 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: 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 12 of the HOMARD COUNTY DESIGN MANUAL, Storm Drainage.

accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). 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.

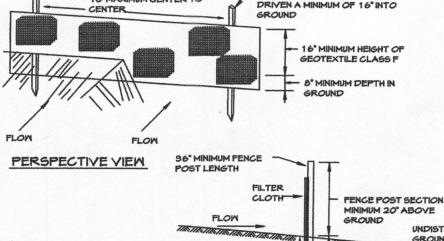
Total Area of Site 1.3864 Acres
Area Disturbed .7367 Acres
Area to be roofed or paved .1820 Acres
Area to be vegetatively stabilized .5547 Acres
Total Cut 750 Cu Yds.
Offsite works 7. Site Analysis: Total Area of Site Offsite waste/borrow area location

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 control must be provided, if deemed necessary by the Howard

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.

1 1. Trenches 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.

DETAIL 22 - SILT FENCE



36" MINIMUM LENGTH FENCE POST

EMBED GEOTEXTILE CLASS F A MINIMUM OF 8" VERTICALLY FENCE POST DRIVEN A CROSS SECTION SECTION A JOINING TWO ADJACENT SILT

1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 11/2" X 11/2" SQUARE (MINIMUM) GUT, OR 11/4" DIAMETER (MINIMUM) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD, STEEL POSTS WILL BE TANDARD T OR U SECTION WEIGHTING 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 50 TENSILE MODULUS 20 LBS/IN (MIN.) TEST: MSMT 509 FLOW RATE 0.3 GAL FT 7 MINUTE (MAX.) TEST: MSMT 322 FILTERING EFFICIENCY 75% (MIN.)

Construction Specifications

FENCE SECTIONS

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 WHEI

BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT. Silt Fence Design Criteria

Slope Steepness	Slope Length	Silt Fence Lengti	
Flatter than 50:1	unlimited	unlimited	
50:1 to 10:1	125 feet	1,000 feet	
10:1 to 5:1	100 feet	750 feet	
5:1 to 3:1	60 feet	500 feet	
3:1 to 2:1	40 feet	250 feet	
2:1 and steeper	20 feet	125 feet	

NOTE: IN AREAS OF LESS THAN 2% SLOPE AND SANDY SOILS (USDA GENERAL CLASSIFICATION SYSTEM, SOIL CLASS A) MAXIMUM SLOPE LENGTH AND SILT FENCE LENGTH WILL BE UNLIMITED. IN THESE AREAS A SILT FENCE MAY BE THE ONLY PERIMETER CONTROL

STANDARDS AND SPECIFICATIONS FOR TOPSOIL CONSTRUCTION AND MATERIAL SPECIFICATIONS 1. OBTAIN GRADING PERMIT

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 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 x° in diameter.

II. Topsoil must be free of plants or plant parts such as bermuda grass, quack grass, Johnson grass, nutsedge, polson ivy, thistle, or others as specified. iii. Where the subsoli 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 topsoli. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with III. For sites having disturbed areas under 5 acres:

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

IV. For sites having disturbed areas over 5 acres: i. On soil meeting Topsoll specifications, obtain test results dictating fertilizer and me amendments required to bring the soil into compliance with the following a) pH for topsoll 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

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

d) No sod or seed shall be placed on soil which has been treated with soil sterliants 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.

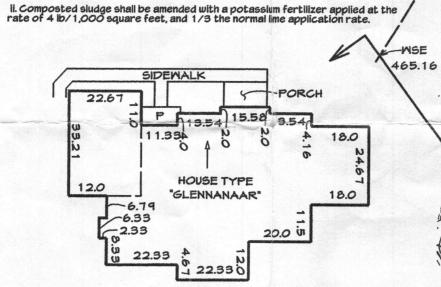
ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials. V. Topsoil Application i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope slit 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. 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, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:

i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following a) Composted sludge shall be supplied by, or originate 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 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must c) Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.



HOUSE DETAIL SCALE: 1"=30"

HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONGLIVED VEGETATIVE

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

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

1) PREFERRED- APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (19.2 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (114 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT 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 DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

DING- FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST SEEDING- FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.5 LBS./1000 SQ.FT.) OF WEEPING LOYEGRASS, DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28. PROTECT SITE BY: OPTION (1) \$\phi 2\$ TONS PER ACRE OF 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 TON/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 A MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/ 1000 SQ.FT.) O EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES OF 8 FEET OR HIGHER

USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING. 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 GOVER 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: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./ 1000 SQ.FT.) SEEDING: FOR PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 15 THROUGH OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 5Q.FT.) FOR THE PERIOD OF MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 5Q.FT.) FOR THE PERIOD OF NOVEMBER 16 THROUGH NOVEMBER 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 (10 TO 90 LBS,/1000 SQ.FT.)
OF UNROTTED WEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER
SEEDING. ANCHOR IMMEDIATELY AFTER APPLICATION USING MULCH
ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED
ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL. PER
ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING. REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS

2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING 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

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

2. INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN. (1 DAY) PERFORM NECESSARY GRADING AND STABILIZE THE SITE. BUILD

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)

1. LENGTH - MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT).

ENTRANCE

шN=564300

467.99

465.16

ш N-564300

L.O.D.- DENOTES LIMIT OF

DISTURBANCE TOTAL

AREA- 32,090 S.F.

EASEMENT= 10,000 S.F. ±

NATURAL RESOURCE

- PROTECTION EASEMENT

4 SWM CREDIT EASEMENT

STABLIZED

ENTRANCE

CONSTRUCTION

-DENOTES APPROVED PERCHOLE LOCATIONS

= 25% SLOPES

H.S. -DENOTES HUNG SEWER

-DENOTES TOTAL PROPOSED SEPTIC AREA

-DENOTES APPROVED SEPTIC AREA EASEMENT = 10,000 S.F. ±

FROM APPROVED PERCOLATION CERTIFICATION PLAN

SIGHT DISTANCE= 734'

467.99

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 CONSTRUCION ENTRANCE

MICHAEL S. LONDNER

13550 TRIADELPHIA ROAD

CLARKSVILLE, MARYLAND 21029-1025

LIBER 9289-FOLIO 589

PAVING

HOUSE GRADING & SEPTIC DESIGN LAYOUT

SCALE: 1"=30"

LEGEND

PROPOSED SEPTIC AREA

NATURAL RESOURCE; PROTECTION EASEMENT

4 SHM CREDIT BASEMENT

EASEMENT LOST- 420 S.F.±

SEPTIC SYSTEM NOTES 1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT NO: 2. PROPOSED 2000 GALLON SEPTIC TANK, FOR A (5) BEDROOM HOUSE 3. A. FIRST FLOOR ELEVATION: 500.66

B. BASEMENT ELEVATION: 490.66 B. A. FIRST FLOOR ELEVATION: 500.66
B. BASEMENT ELEVATION: 490.66
C. INVERT OF SEPTIC SYSTEM AT HOUSE: 492.0
D. INVERT AT SEPTIC TANK: 491.5
E. INVERT OUT AT SEPTIC TANK: 491.2
F. PROPOSED GRADE OVER SEPTIC TANK: 493.3
G. INVERT AT DISTRIBUTION BOX: 501.8
H. EXISTING GROUND OVER DISTRIBUTION BOX: 503.8 4. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
5. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BUILDER TO VERIFY AVAILABILTY OF BASEMENT SEWER SERVICE PRIOR TO DWELLING STAKEOUT PUMP CHAMBER NOTES 1. PUMP CHAMBER SUBJECCT TO HOWARD COUNTY HEALTH DEPT. NO. 1. PUMP CHAMBER SUBJECT TO HOMARD COUNTY HI 2. PROPOSED 2000 GALLON CHAMBER 3. INVERT AT PUMP CHAMBER- 490.9 4. INVERT OUT OF PUMP CHAMBER- 490.6 5. PROPOSED GRADE OVER PUMP CHAMBER- 493.5

BERM (6" MIN.) - EARTH FILL * GEOTEXTILE CLASS'C' -- PIPE AS NECESSAR MINIMUM 6" OF 2"-3" AGGREGATE OVER LENGTH AND WIDTHOF STRUCTURE PROFILE PLAN VIEW STANDARD SYMBOL DETAIL 24 -TABILIZED CONSTRUCTION ENTRANCE

NOTE: / PROPOSED SEPTIC AREA EASEMENT, GAINED- 425 S.F. шN=564600 RYLEX HOMES INC.

DISTRIBUTION

BOX

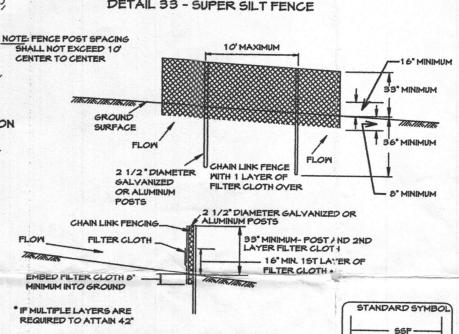
1ZOU

WELL

(HO-94+4039)

NOTE: ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A RREVISED PERCOLATION CERTIFICATION PLAN

DETAIL 33 - SUPER SILT FENCE



CONSTRUCTION SPECIFICATIONS FENCING SHALL BE 42' IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 42" FABRIC AND 6' LENGTH

1. THE POLES DO NOT NEED TO SET IN CONCRETE 2. CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE

3. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED 4. FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 8" INTO THE GROUND.

5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED 6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED MHEN "BULGES" DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES 50% OF FENCE HEIGHT

7. FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR

(MAXIMUM)

SLOPE LENGTH SILT FENCE LENGTH

TENSILE STRENGTH 50 LBS/IN (MIN.) TEST: MSMT 509 TENSILE MODULUS 20 LBS/IN (MIN.) TEST: MSMT 509 FLOW RATE 0.3 GALZ/FT /MINUTE (MAX.) TEST: MSMT 322 FILTERING EFFICIENCY 75% (MIN.) DESIGN CRITERIA

SLOPE

STEEPNESS

(MAXIMUM) 0-10% 0-10:1 UNLIMITED UNLIMITED 10 - 20% 10:1 - 5:1 1,500 FEET 5:1 - 3:1 1,000 FEET 3:1 - 2:1 500 FEET 50 FEET 250 FEET

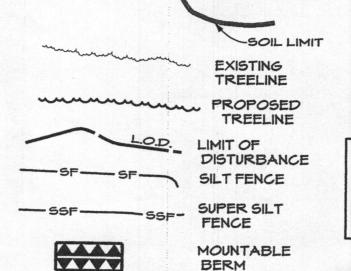
HOUSE ROOF TOPS= 7,930 S.F. NOTE: SEE SHEET 2 FOR DRIVEWAY

NOTE: TOTAL PROPOSED IMPERVIOUS

AREA INCLUDING DRIVEWAY &

19550

ENTRANCE DETAIL



MOUNTABLE

BERM

SHEET INDEX

SLOPE

. REVISED PERCOLATION CERTIFICATION PLAN AND PLOT PLAN 2. STORMWATER MANAGEMENT 3. STORMWATER MANAGEMENT DRAINAGE AREA MAPS 4. EASEMENT PLAN

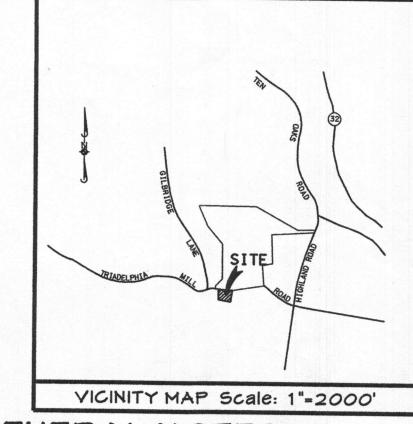
NOTE: "The existing well(s) shown on this plan (identified with the attached well tag number ex. HO 94-4039) has been field located by Carroll Land Services Inc. professional land surveyor(s) and its accurately shown."

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

IN COUNTY HEALTH OFFICER OF MADO DATE

SHEET 1 OF 4

Surveyed By:



GENERAL NOTES

THIS AREA DESIGNATES A PRIVATE SEMERAGE EASEMENT AT LEAST 10,000 SQUARE PEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEMERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEMERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEMERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEMERAGE EASEMENT. RECORDATION OF A MODIFIED SEMERAGE 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

EXISTING PAVEMENT

3. EXISTING WELLS AND/OR SEMERAGE 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

5. ALL EXISTING TOPO ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON HOWARD COUNTY '2004' TOPOGRAPHY MAP. THE HORIZONTAL DATUM IS THE MARYLAND COORDINATE SYSTEM N.A.D. 1983 AND VERTICAL DATUM IS BASED

6. STOCKPILING WILL NOT BE PERMITTED ON THIS SITE 7. WHEN INSTALLING SILT AND SUPER FENCE DOWNHILL, CONTRACTOR IS TO TURN SILT FENCE BACK UP SLOPE ABOUT 3 FEET IN A "J" CONFIGURATION

8. STORMMATER MANAGEMENT=
THE MATER QUALITY VOLUME PROVIDED IS BASED ON 0.2° OF STORAGE VOLUME
PER ACRE. THE NATURAL RESOURCE CONSERVATION EASEMENT CREDIT AND
SHEET FLOW TO BUFFER CREDIT HAS BEEN USED TO DETERMINE THE AREA TO
BE TREATED. THE COMPUTED AREA IS PROPOSED TO BE STORED IN THE DRY
SWALE USING TIMBER CHECK DAMS, ALL IMPERVIOUS AREA HAS BEEN DISCONNECTED
USING EITHER SHEET FLOW TO BUFFER CREDIT IN CONJUNCTION WITH A LEVEL
SPREADER, OR BY DIRECTLY DRAINING TO THE DRY SWALE.

9. DRIVEMAY(S) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:

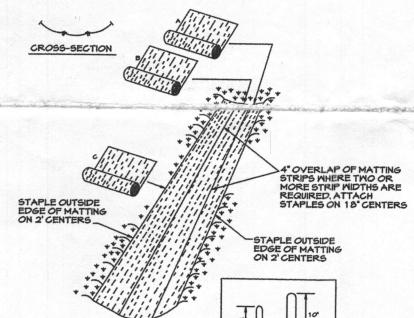
REQUIREMENTS:

A) WIDTH- 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENCE)

B) SURFACE- 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING
C) GEOMETRY- MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF
45-FOOT TURNING RADIUS.

D) STRUCTURES- (CULVERT/BRIDGES)- CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
E) DRAINAGE ELEMENTS- CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE
THAN 1 FOOT DEPTH OVER DRIVEMAY SURFACE.
F) STRUCTURE CLEARANCES- MINIMUM 12 FEET.
G) MAINTENANCE- SUFFICIENT TO INSURE ALL WEATHER USE.

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.

TYPICAL STAPLES NO. 11 GAUGE MIRE

S. 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 MITH 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 ROM 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.

BUILDING PERMIT #B07000307

REVISED PERCOLATION CERTIFICATION PLAN AND PLOT PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT CHARLES DORSEY PROPERTY

13571 TRIADELPHIA MILL ROAD 5TH ELECTION DISTRICT . HOWARD COUNTY, MARYLAND LIBER 43 FOLIO 610 TAX MAP 34 PARCEL 178

REVISIONS

12/5/06 REVISED AS PER SOIL CONSERVATION COMMENTS DATED 11-20-06 JEP B/22/07 REVISED PER COUNTY PLANNING AND ZONING / HEALTH DEPT. COMMENTS | JEP 4/4/01 REVISED PER HEALTH DEPT. COMMENTS 4/2/01 www.clsi-civileng.com

FREDERICK OFFICE. 8445 Progress Drive, Suite Bl Frederick, MD 21701-4764 (301) 662-1799 FAX (301) 662-8004

CLSI

Checked By:

Westminster, MD 21157-5539 (410) 848-1790 FAX (410) 848-1791 Drawn By:

I Engineer Registration No. 23 MAY, 2006 Drawing No.: 2005004

Alfred L. Hansard

County File No. F- -