APPLICATION

PERCOLATION TESTING

A 517415-A

P _____

DISTRICT _____

DATE 8/14/2002

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 Peggy Marie Hoch

ADDRESS 10551 #D2 Twin Rivers Rd. Columbia Md 21044 PHONE 410-997-1433

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION: 1704 Woodstock Rd., Woodstock, MD. 21163

SUBDIVISION N.A. LOT NO. _____

ROAD AND DESCRIPTION _____

TAX MAP 10-18 Grid PARCEL # 306

SIZE OF LOT 0.964 AC. TYPE BLDG. NEW 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. Peggy Marie Hoch
(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)

APPLICATION

PERCOLATION TESTING

A 517415-B

P _____

DISTRICT _____

DATE 8/14/2002

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 Peggy Marie Hoch

ADDRESS 10551 Twin Rivers Rd. #D2 Columbia, MD. 21044 PHONE 410-997-1433

AGENT OR PROSPECTIVE BUYER N.A.

ADDRESS _____ PHONE _____

PROPERTY LOCATION: 1704 Woodstock Rd., Woodstock, MD. 21163

SUBDIVISION N.A. LOT NO. _____

ROAD AND DESCRIPTION _____

TAX MAP 10-18 (Grid) PARCEL # 136

SIZE OF LOT 0.866 Ac. TYPE BLDG. EX. 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. Peggy Marie Hoch
(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)

COUNTY #

SOIL PROFILE

0' (3A) brn heavy lm w/ topsoil

2-2½ brn sa mi lm

5½ H_2O entering

8½

UP (1) DOWN

brn cl lm

2 3½ brn sa lm 10-25% Rx WORSE SOUTH

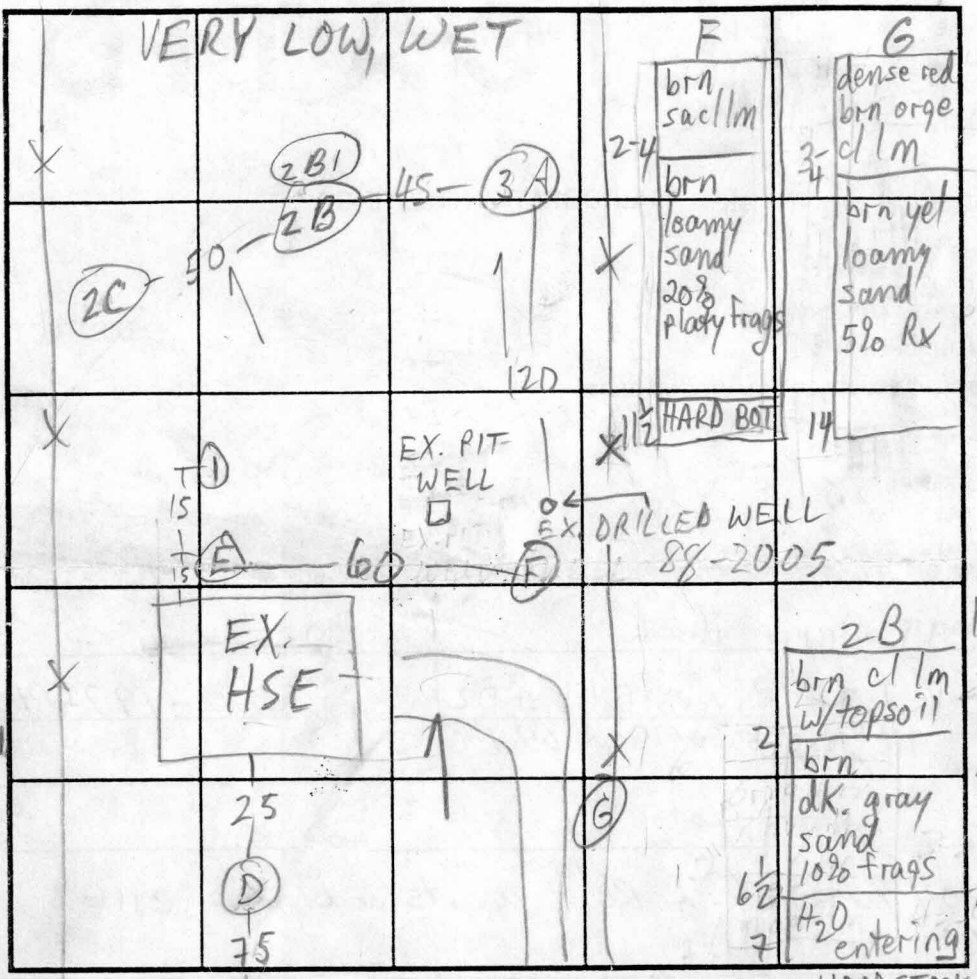
6'9" REFUSAL

NORTH (D) SOUTH

brn hvy lm

3 lt. brn tan fine sand 30% Rx 10-15% soft frags

11½



SOIL PROFILE

0' NORTH E SOUTH

orge cl lm

4

brn sand 25% Rx | brn sand 30-40% Rx

6

brn sand 10-15% Rx

10½ HARD BOT

2C

2-3 brn hvy lm

brn lm 10% frags

4½-5

H_2O entering

7

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
5/1/03	3A V	8½	H_2O @	5½	FAIL FOR TRENCHES		
	1 V	6'9"	HARD	BOT	FAIL FOR TRENCHES		
	2B V	7	H_2O @	6½		MARGINAL	
	2C V	7	H_2O @	4½-5	FAIL FOR TRENCHES		
	D V	11½	OK, esp @ NORTH SIDE				
	E V	10½	OK, esp @ NORTH SIDE				
	F V	11½	OK				
	G V	14	OK				

REMARKS POTENTIAL FOR ONE SAND MOUND AND ONE CONV. TRENCH SYSTEM

TYPE OF SOIL

TESTED BY M. Rifkin / K. Noonan ALSO PRESENT OK, OK Jr

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH SQ. FT/BEDROOM

APPLICATION

PERCOLATION TESTING

A _____

P _____

DISTRICT _____

DATE _____

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 _____

ADDRESS _____ PHONE _____

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION 1704 Woodstock Rd LOT NO. _____

ROAD AND DESCRIPTION _____

_____

TAX MAP _____ PARCEL # _____

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

HD-216 (3/92)

COUNTY #

SOIL PROFILE

0'

3A

topsoil

8"

brn orge mica heavy lm

17"

brn sa mica lm

24"

2B

topsoil

9"

brn sticky very heavy mica lm and c/lm

24"

2C

topsoil

6"

orge brn very heavy mica lm

7"

orge brn mica lm

24"

SOIL PROFILE

0'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME

REMARKS _____

TYPE OF SOIL _____

TESTED BY _____ ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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

TEST DATA

NAME _____ FILE NO _____

LOCATION 1704 Woodstock COUNTY _____

_____ DATE _____

_____ GRID _____ E

RECORDED BY M. Rifkin/K. Noonan _____ N

HOLE NO.	TEST NO. H_2O HEIGHT	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)	inch/min	min/inch
2B-1	7"	8"	1:31	—	35			
			1:46	15	34 13/16	3/16	.0125	80
			2:01	15	34 14/16	2/16	.008	120
			2:16	15	34 9/16	2/16	.008	120
			2:31	15	34 8/16	1/16	.004	240
			2:46	15	34 6/16	2/16	.008	120
			3:01	15	34 4/16	2/16	.008	120
			3:16	15	34 3/16	1/16	.004	240
			3:31	15	34 3/32	3/32	.01	160

TEST DATA

NAME Peggy Hoch — FILE NO A517415-B

LOCATION 1704 Woodstock Rd TM 10, Parcel 136 — COUNTY Howard

DATE 5/1/03

GRID ____ E

RECORDED BY M. Rifkin — N

HOLE NO.	TEST NO. H_2O HEIGHT	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)	inch/min	min/inch
3.A	7"	10"	10:41	—	10"	> 5/16	.016	64
			11:01	20	9 11/16	> 4/16	.017	60
			11:16	15	9 7/16	> 3/16	.0125	80
			11:31	15	9 4/16	> 3/16	.0125	80
			11:46	15	9 1/16	> 3/16	.0125	80
			12:01	15	8 14/16	> 7/32	.01	100
			12:23	22	8 21/32	> 7/32	.014	73
			12:38	16	8 14/32			
2C LOC. NOT STAKED	7"	9"	10:56	—	35	> 4/16	.017	60
			11:11	15	34 12/16	> 3/16	.0125	80
			11:26	15	34 9/16	> 3/16	.011	91
			11:43	17	34 6/16	> 2/16	.01	104
			11:56	13	34 4/16	> 7/32	.009	114
			12:21	25	34 1/32	> 4/32	.008	120
			12:36	15	33 29/32	> 4/32	.008	120
			12:51	15	33 25/32			
2B	7"	7-8"	10:49	—	10	> 1/16	.004	240
			11:04	15	9 15/16	> 2/16	.008	120
			11:19	15	9 13/16	> 2/16	.008	120
			11:34	15	9 11/16	> 3/16	.0125	80
			11:49	15	9 8/16	> 1/32	.002	480
			12:04	15	9 15/32	> 3/32	.005	213
			12:24	20	9 12/32	> 2/32	.004	240
			12:39	15	9 10/32			

K & K Excavating, Inc.
15882 Frederick Road
P. O. Box 280
Lisbon, Maryland 21765

Phone: 410-442-1336
Fax: 410-442-1335

1-24-03

Landplan Associates
207 Martins Lane, #100
P. O. Box 10375
Rockville, Maryland 20849

Phone: 301-279-9990
Fax: 301-279-9991

This is to correspond with drawing:

Hole #1 Clay to 3 ft. water at 3 ft. FAIL

Hole #2 Clay to 2 ft. sand to 9 ft. water at 6 ft. FAIL

Hole #3 Clay to 2 ft. sand loam to 8 ft. rock and water at 8 ft. FAIL

Hole #4 Clay to 2 ft. sand loam to 12 ft. water at 8 ft. FAIL

Hole #5 Clay to 2 ft. sand loam to 8 ft. rock and water at 8 ft. FAIL

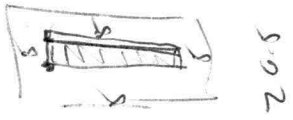
Hole #6 Clay to 3 ft. sand loam to 8 ft. mix rock and loam to 12 ft.
Water at 10 ft. FAIL

Hole #7 Clay to 2 ft. mix sandstone and loam to 6 ft. rock at 6 ft. FAIL

Hole #8 Clay to 2 ft. mix sandstone and loam to 7 ft. rock at 7 ft. FAIL

Mike, It don't look good for a perc site on property as you can see by the results of digging visual holes.

Thank You,
Olen Ketterman



Test Hole **T** ran 9/23/04 Fails

Water at *5.5* *feet*
Tested at *8* *inches*

Time	Minutes	Distance	Drop	M.P.I.	% Change
10:38:30		10 15/16			
10:54:50	16 1/3	10 7/16	8/16	33	
11:16:50	22	10 3/16	4/16	88	169%
11:40:50	24	9 14/16	5/16	77	-13%
12:07:30	26 2/3	9 10/16	4/16	107	39%
12:20:30	13	9 8/16	2/16	104	-3%

Fails

Test Hole **J** ran 9/23/04

Water at *6* *feet*
Tested at *24* *inches*

Time	Minutes	Distance	Drop	M.P.I.	% Change
9:12:30		9 13/16			
9:36:30	24	9 9/16	4/16	96	
10:05:30	29	9 7/16	2/16	232	142%
10:21:00	15 1/2	9 7/16	0		

Test Hole **D** ran 9/23/04

Water at *5.5* *feet*
Tested at *24* *inches*

Time	Minutes	Distance	Drop	M.P.I.	% Change
8:25:40		10 13/16			
8:39:23	13 43/60	10 2/16	11/16	20	
8:55:45	16 11/30	9 8/16	10/16	26	31%
9:13:40	17 11/12	8 12/16	12/16	24	-9%
9:27:45	14 1/12	8 3/16	9/16	25	5%
10:06:45	39	6 9/16	1 10/16	24	-4%

Most restrictive layer? see Test 4"

Howard County
Health Department

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

November 12, 2002

Peggy Marie Hoch
10551 Twin Rivers Road, # D2
Columbia, MD 21044

RE: **Percolation Test Date – A517415**
Tax Map 10, Parcels 136 and 306
Two Parcels of Record
1704 Woodstock Road

Dear Ms. Hoch:

Percolation testing has been tentatively scheduled for the referenced proposal for **Tuesday November 19, 2002 at 9:00 a.m.** Please call this office at (410) 313-2640 to confirm this test date. The test holes should be excavated in the locations shown on the most recent site plan, with the adjustment shown on the enclosed plan. Testing should begin with Sand Mound 4. Additional hole locations, if needed, will be arranged in the field.

The applicant is responsible for having a backhoe on site to excavate sand mound percolation test holes; a few of these may be later excavated to a depth of 14 feet. It is expected that all proposed percolation test holes will be staked and excavated at the locations depicted on the recently submitted percolation test plan, as revised. It is also expected that any necessary clearing will be completed, and excavation of the test holes will be started, prior to the inspector's arrival.

Although water table issues are expected to be problematic, testing has been scheduled because agency experience and test history suggest that the proposal has little or no potential to pass as drawn. Specifically, the land position and soil types near Sand Mound 4 suggest a relatively quick failure.

Your engineer reported that a replacement dwelling on P. 136 would still be desired regardless of the status of P. 306. You should be prepared to consider all such options, including a completely different house location. Some potential exists to test and approve a single conventional (non-sand-mound) septic area in the front of P. 136, contingent upon: 1) demolition of the existing house; 2) the existing house having a basement of minimal depth; 3) securing a suitable location for a new well at least 100' from and not downslope of any septic system (consideration of offsite locations accessible via recorded easement is encouraged); 4) your acknowledgement that the new house would likely require a pumped septic system; and 5) proper filling of the two existing wells.

In the event of uncertain weather (i.e., precipitation or temperature extremes), please contact this office prior to 9:00 a.m. on the test date to determine whether or not percolation testing can be performed on that date. If it is not feasible to perform the test, a new test date will be assigned. Percolation test results will be available for distribution by mail approximately two weeks after the completion of the percolation testing. Thank you in advance for your cooperation in this matter.

Sincerely,

Mark E. Rifkin

Mark E. Rifkin, R.S.
Water and Sewerage Program

MER
cc: Mike Mirtaghavi, Land Plan Associates
File

FILE COPY

Howard County
Health Department

7178 Columbia Gateway Drive, Columbia, MD 21046
(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, 2005

Ms. Peggy Marie Hoch
10551 Twin Rivers Road, D-2
Columbia, Maryland 21044-2120

Re: 1704 Woodstock Road
Woodstock, MD

Dear Ms. Hoch,

I am writing in response to your request to determine what options maybe available for the above referenced property. Below I have attempted to provide a list of requirements for occupying the existing house, rebuilding a two bedroom house and building a new home with more than two bedrooms.

Occupy the existing house or build a new two bedroom house to replace the existing house.

1. Abandon the existing old well.
2. Install an innovative and alternative septic system in the area of perc holes 2C, 2B, and 3A or install a conventional system in the area of perc holes D, E, F, and G. Please be advised that the area of perc holes D, E, F, and G **may only be utilized if** both wells on the property are properly abandoned by a licensed well driller and a new well is drilled on parcel 306 in a perpetual legal easement. The neighboring well(s) serving 1696 Woodstock Road and/or 1701 Woodstock Road may need to be properly abandoned by a licensed well driller and relocated 90 feet from the property line to increase the amount of area available for sewage disposal beyond the 100 foot setback from the well to the proposed septic system.
3. A revised perc certification plan will be required if the proposed project will require a building permit.
4. Provide legal documentation that accurately describes the location of the underground utility easement on parcel 306 as well as a site plan that shows the precise location.

Build a new home with more than two bedrooms **(site may not support this use)**.

1. Properly abandon both wells on parcel 136 and drill a new well in a perpetual legal easement on parcel 306.
2. **Demonstrate on a revised perc certification plan that there is adequate area available for an initial conventional on-site sewage disposal system and a conventional replacement.** Be advised that the area of perc holes D, E, F, and G may

only be utilized if both wells on the property are properly abandoned by a licensed well driller and a new well is drilled on parcel 306 in a perpetual legal easement. The neighboring well(s) serving 1696 Woodstock Road and/or 1701 Woodstock Road may need to be properly abandoned by a licensed well driller and relocated 90 feet from the property line to increase the amount of area available beyond the 100 foot setback from the well to the proposed septic system. Relocation of the proposed home away from passing perc holes D, E, F, and G will leave more area available for conventional septic system design and **may** alleviate the need to abandon and relocate the existing well(s) serving 1696 Woodstock Road and/or 1701 Woodstock Road.

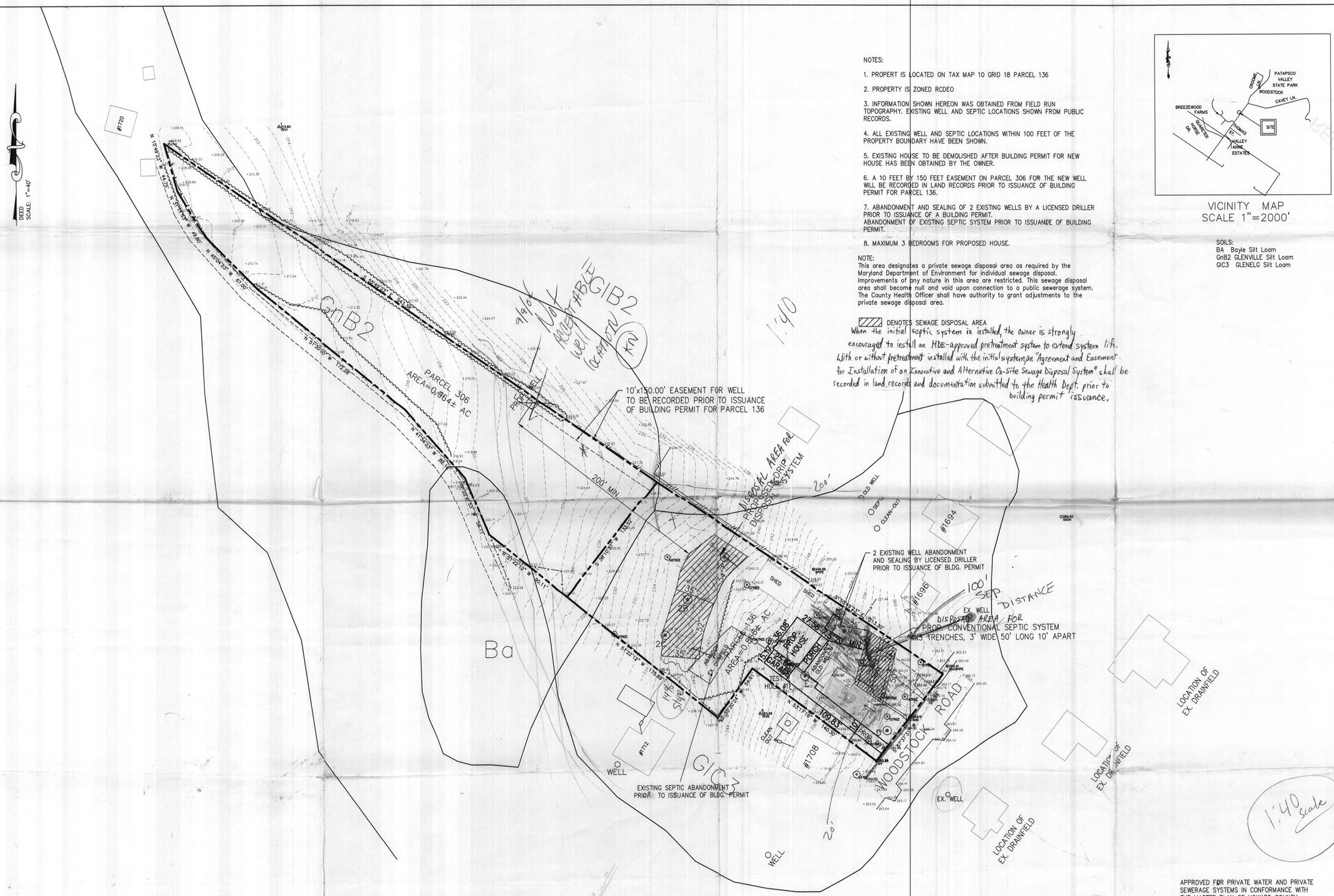
3. Include the underground utility easement that extends through parcel 306 on the perc certification plan.

Additionally, be advised that additional testing to expand upon the conventional on-site sewage disposal area (area of perc holes D, E, F, and G) may be required for a new home or addition to the existing home beyond two bedrooms. This letter does not guarantee the issuance of permits for property improvements, it is intended to clarify Department of Health requirements for future use of the property.

Sincerely,

Michael J. Davis
Supervisor, Well and Septic Program

DEED
SCALE: 1"=40'



NOTES:

1. PROPERT IS LOCATED ON TAX MAP 10 GRID 18 PARCEL 136

2. PROPERTY IS ZONED RCDEO

3. INFORMATION SHOWN HEREON WAS OBTAINED FROM FIELD RUN TOPOGRAPHY. EXISTING WELL AND SEPTIC LOCATIONS SHOWN FROM PUBLIC RECORDS.

4. ALL EXISTING WELL AND SEPTIC LOCATIONS WITHIN 100 FEET OF THE PROPERTY BOUNDARY HAVE BEEN SHOWN.

5. EXISTING HOUSE TO BE DEMOLISHED AFTER BUILDING PERMIT FOR NEW HOUSE HAS BEEN OBTAINED BY THE OWNER.

6. A 10 FEET BY 150 FEET EASEMENT ON PARCEL 306 FOR THE NEW WELL WILL BE RECORDED IN LAND RECORDS PRIOR TO ISSUANCE OF BUILDING PERMIT FOR PARCEL 136.

7. ABANDONMENT AND SEALING OF 2 EXISTING WELLS BY A LICENSED DRILLER PRIOR TO ISSUANCE OF A BUILDING PERMIT.
ABANDONMENT OF EXISTING SEPTIC SYSTEM PRIOR TO ISSUANCE OF BUILDING PERMIT.

8. MAXIMUM 3 BEDROOMS FOR PROPOSED HOUSE.

NOTE:
This area designates a private sewage disposal area as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This sewage disposal area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage disposal area.

▨ DENOTES SEWAGE DISPOSAL AREA

When the initial septic system is installed, the owner is strongly encouraged to install an MDE-approved pretreatment system to extend system life. With or without pretreatment installed with the initial system an "Agreement and Easement for Installation of an Innovative and Alternative On-Site Sewage Disposal System" shall be recorded in land records and documentation submitted to the Health Dept. prior to building permit issuance.

VICINITY MAP
SCALE 1"=2000'

SOILS:
BA Bayle Silt Loam
GnB2 GLENVILLE Silt Loam
GIC3 GLENELG Silt Loam

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

Penny Borenstein MD-Sd 12-5-03
HOWARD COUNTY HEALTH OFFICER HR DATE

STATE OF MARYLAND
MICHAEL MIRTAGHAFF
PROFESSIONAL ENGINEER
4-20-03

Revisions		
No.	Date	Description
1	10/01/02	REVISED PER HEALTH DEPT. COMMENTS
2	7/30/03	REVISED PER HEALTH DEPT. LETTER 5/19/03
3	10/17/03	REVISED PER HEALTH DEPT. COMMENTS

M.M. Designed | CADD Drawn | M.M. Approved | 10/17/03 Date

PERCOLATION TEST
PC 517415

OWNERS/DEVELOPERS:
PEGGY MARIE HOCH
10551 TWIN RIVERS RD. #02
COLUMBIA, MD. 21044
(301) 742-0438

PARCEL 306 & 13
1704 WOODSTOCK RIAD
WOODSTOCK, 3rd ELEC. DISTRICT
HOWARD COUNTY, MARYLAND

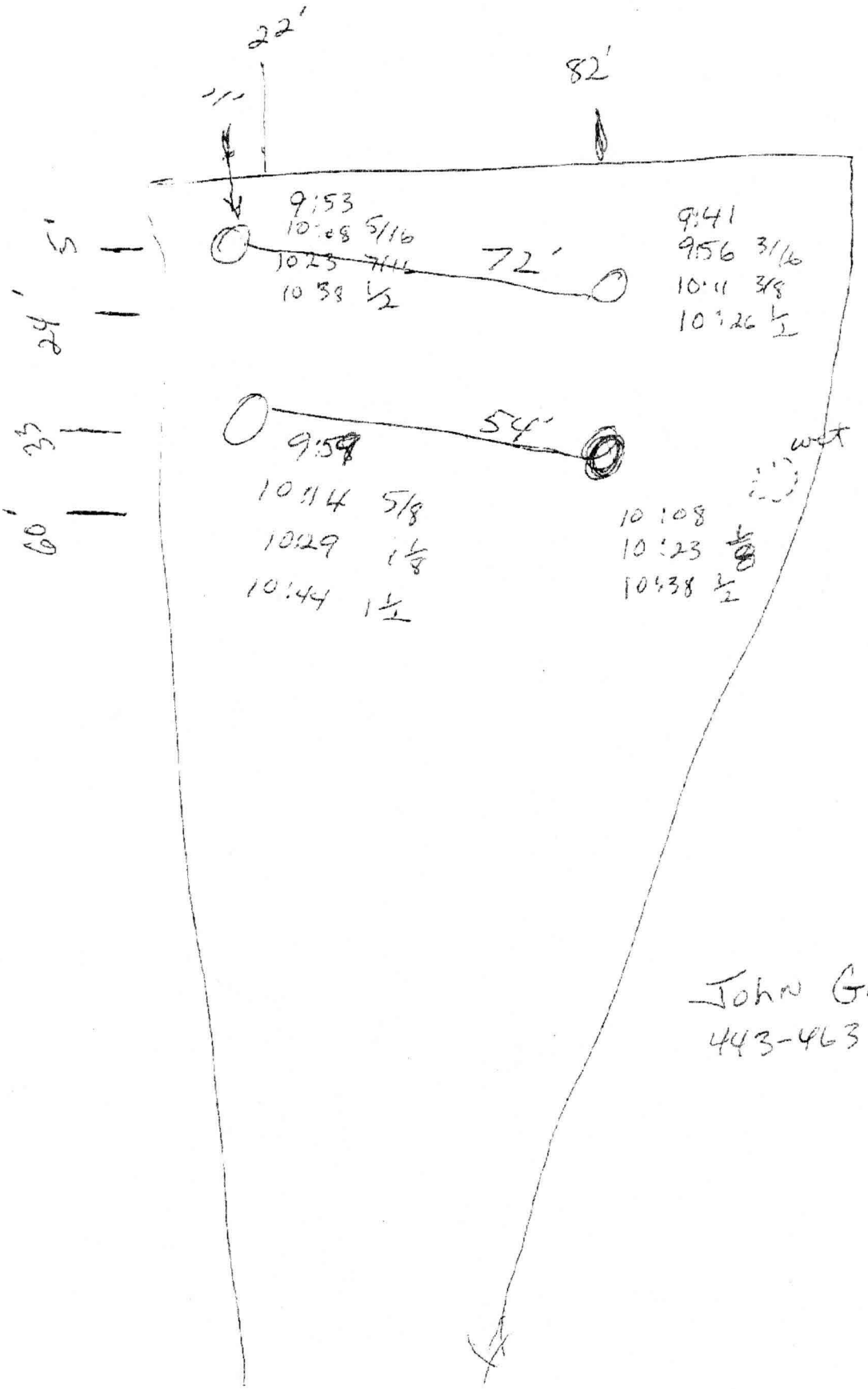
LANDPLAN ASSOCIATES
P.O. BOX 10375
ROCKVILLE, MD. 20849
TEL: (301) 279-9990
FAX: (301) 279-9991

Sheet No. 1

Project No. 02-152

Please give to Mark

1704 Woodstock Rd



John Gaske
443-463-2754

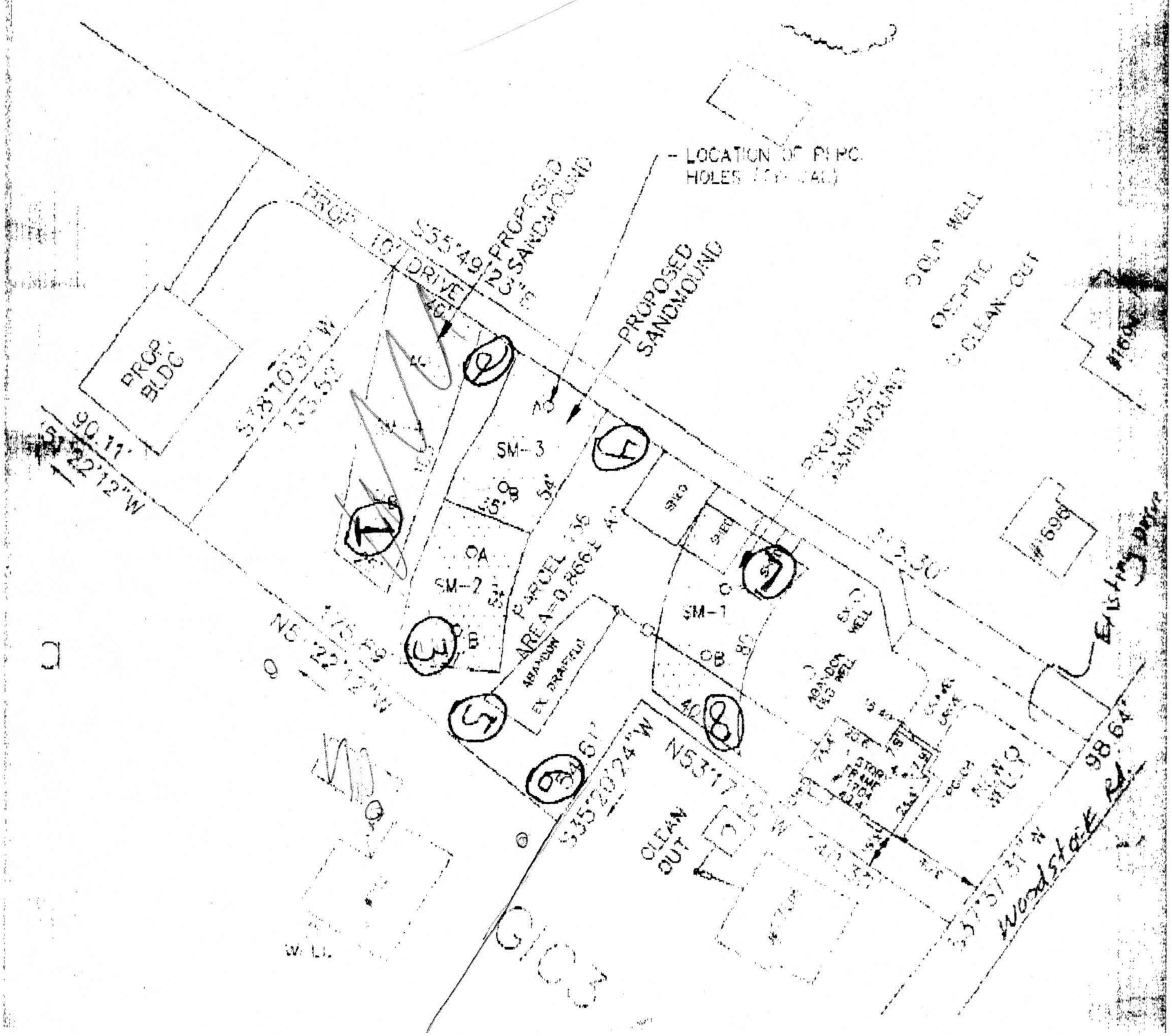

LOCATION OF PERC. HOLES
OLD WELL
OSEPTIC
CLEAN-OUT
PROPOSED SANDMOUND
PROP. 10' DRIVE
PROP. BLDG
SM-1
SM-2
SM-3
PARCEL 136
AREA=0.8661 AC
ABANDON EX. DRAFIELD
ABANDON OLD WELL
EX. WELL
CLEAN OUT
WELL
98.64'
Woodstock Rd.
Existing Drive
#1696
#1698
N53°17'
S35°20'24"W
90.11'
S78°10'37"W
133.52'
S55°49'

TABLE 3.1
EQUATIONS FOR CALCULATING SAND MOUND DIMENSIONS

Absorption bed ft.^{2} (A × B) = $\frac{\text{Design flow}}{\text{1.0 gpd/ft.}^2}$ = $\frac{450}{}$ ft.^{2}

Bed length (B) = 42 ft. (42 ft. to 104 ft. dependent on site)

Bed width (A) = $\frac{\text{Bed area}}{\text{Bed length}}$ $\frac{\text{ft}^2}{\text{ft.}}$ = 10.7 ft. (12 ft. or less)

Upslope sand fill depth (D) = 48 in. – Z in. = 12 in. (12 in. min.)

Downslope sand fill depth (E) = [12A × 14 % slope] + D in. = 30 in.

Cap + topsoil at bed center (H) = 18 in.

CANNOT PLACE SM ON 14% SLOPED

Cap + topsoil at bed edge (G) = 12 in.

Total bed depth (F) = 10 in.

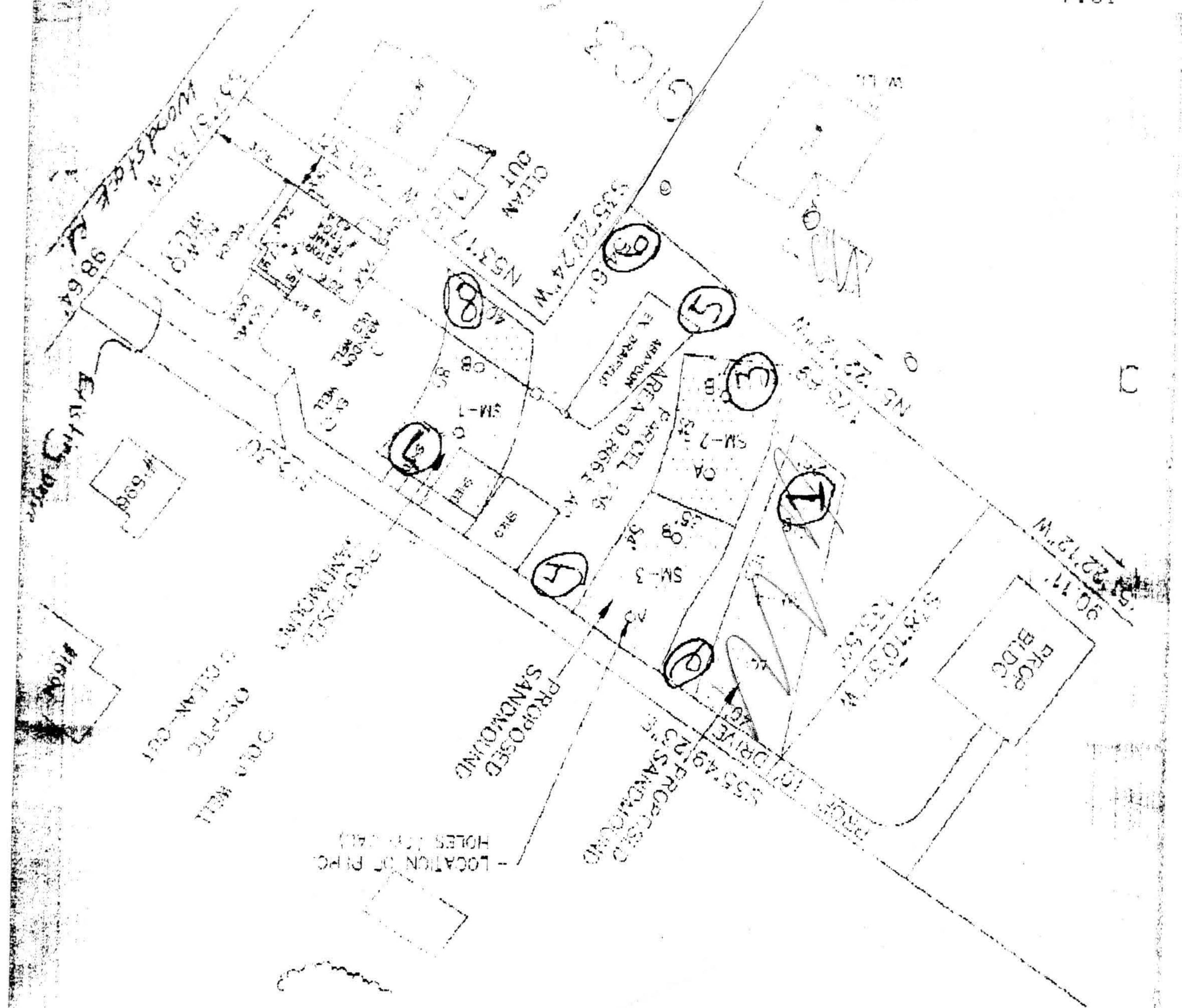
Sideslope setback (K) = $\left[\frac{(D + E)}{2} + 28 \text{ in.}\right] \times 3$ = 147 in. 12.25'

Upslope setback (J) = (22 in. + D) × 3 × upslope corr. factor = 71.4 in. 6'

Downslope setback (I) = (22 in. + E) × 3 × downslope corr. factor = 268.32 in. 22.36'

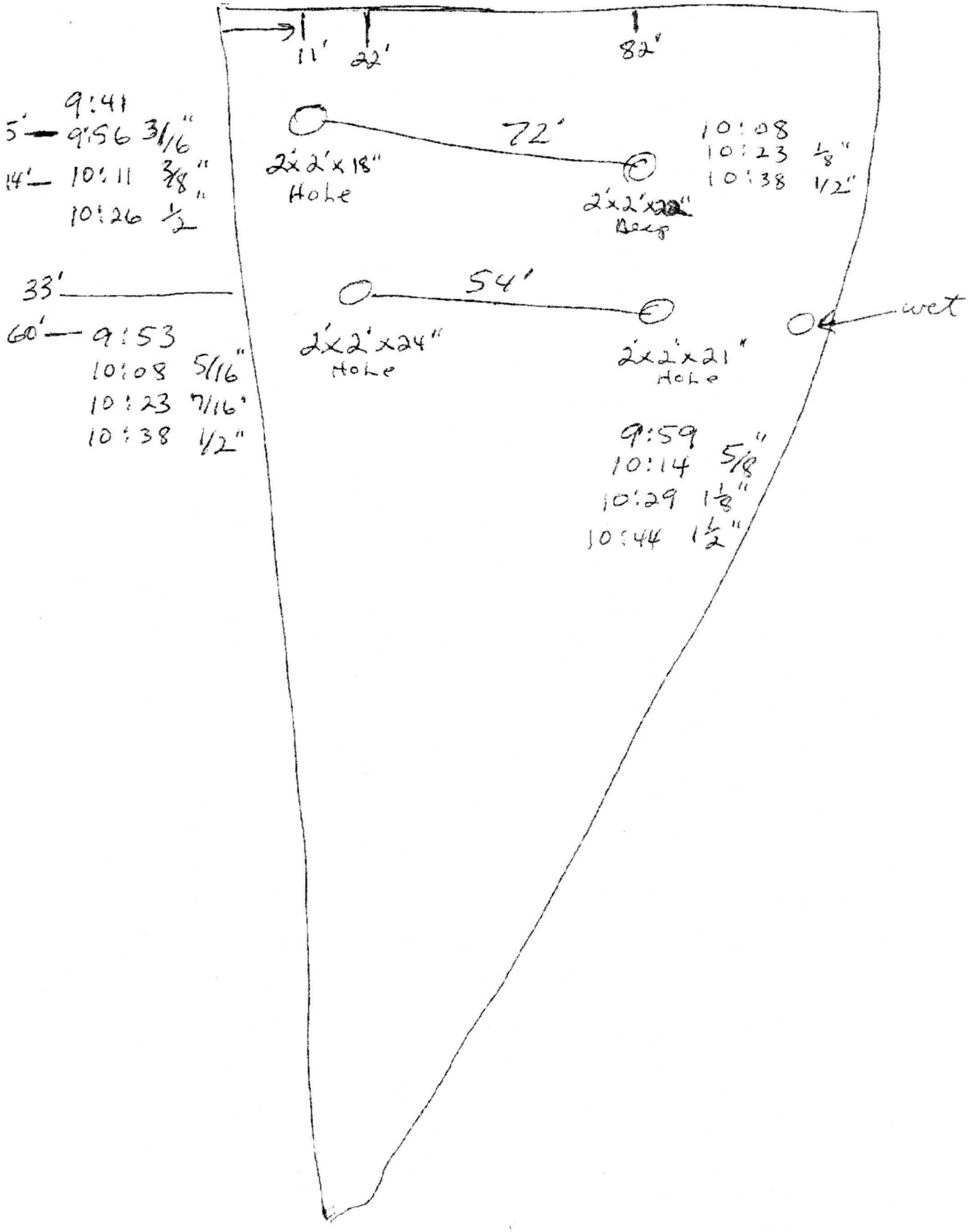
Total width of mound (W) = 12A + J + I = 468.12 in. 39'

Total length of mound (L) = 12B + K + K = 798 in. 66.5'


PROP. BLDG
PROP. 10' DRIVE
PROPOSED SANDMOUND
LOCATION OF PERC. HOLES
SM-1
SM-2
SM-3
CLEAN OUT
S35°20'24"W
N53°17'
Existing Drive
Woodstock Rd
98.64'
90.11'

House ↑

1704 Woodstock Rd. Parcel B



2/7/03 w/Peggy Hoch & Mike M. (MR)

CONV. TRENCH DESIGN NOT LIKELY ON EITHER PARCEL (ROCK & FILL WOULD BE ON P. 136) + 2 AB. WELLS

AREA AT SM-1 COULD BE USEFUL FOR
S.M. (ALTHO LENGTH AVAIL LIMITS OPTIONS TO <60/inch)
AT-GRADE MOUND (BUT NEED <60 MIN/inch)
* LPD (NEED ROCK NO SHALLOWER THAN 6')

P. 306

QUES FOR BARRY G:
1) CLARIFY REQ'D CONDITIONS FOR SM AT 3/25 SM-1 (DUE TO LIMITED LENGTH)
2) " " AT-GRADE MOUND
3) CLARIFY TESTING PROCEDURES FOR LPD & DESIGN/AREA REQ'MENTS
4) IF SM-2/3 FAILS >120 min/inch any options left for P. 136?
P. 306? NO

CONV TT
S.M.
At-gr
~~LPD~~

PER B.G. (P. 136)
S.M. 1 OR S.M 2/3
≤60 MIN OK FOR REPL. DWG OR 4BR
OK AG MOUND (GRSM)

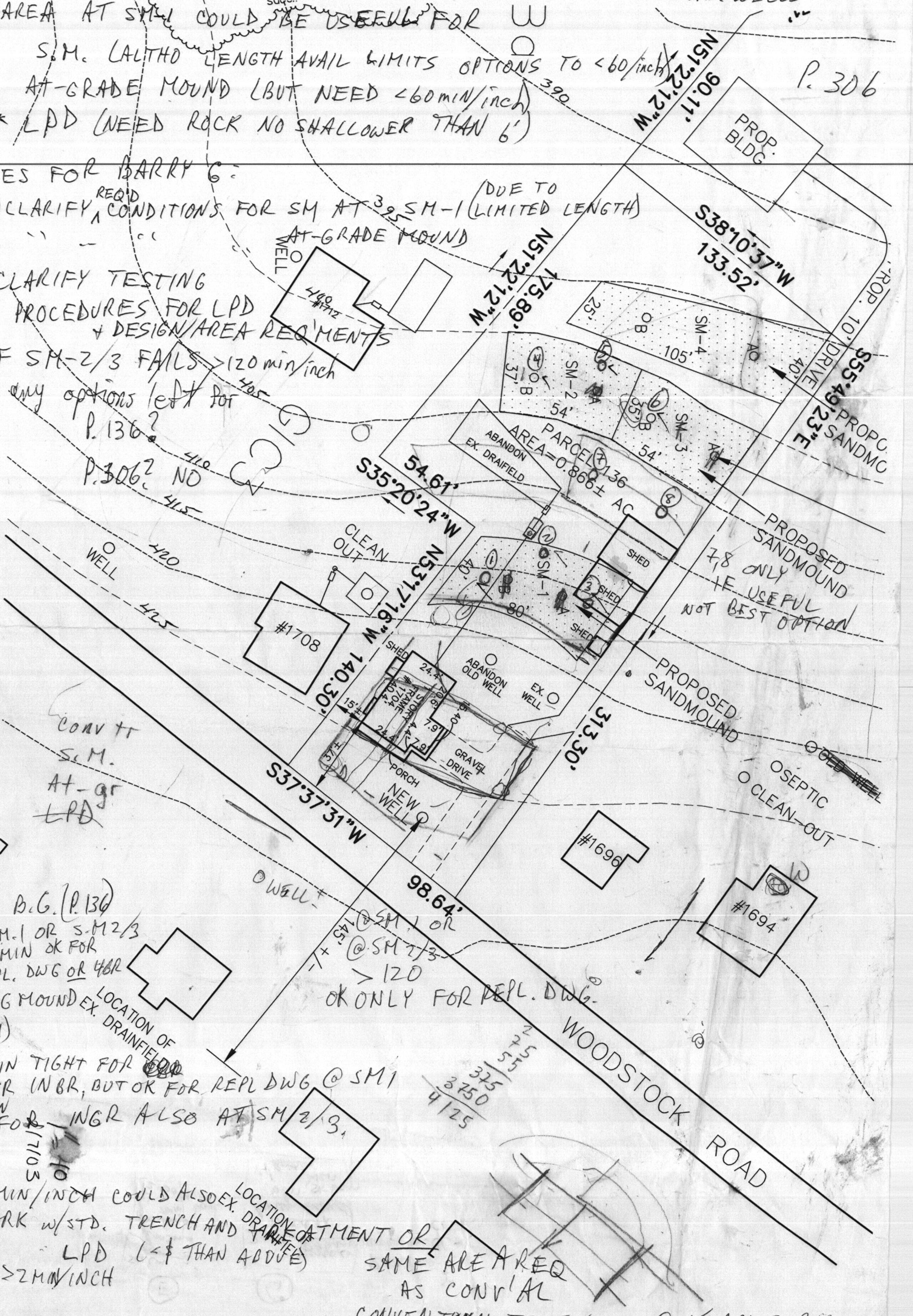
>60 MIN TIGHT FOR 4BR INGR IN BR, BUT OK FOR REPL DWG @ SM1
60 MIN OK FOR INGR ALSO AT SM 2/3.

2/7/03

<60 MIN/INCH COULD ALSO WORK w/STD. TRENCH AND TREATMENT OR LPD (<$ THAN ABOVE)
BOTH ≥2 MIN/INCH

@ SM 1 OR @ SM 2/3 >120 OK ONLY FOR REPL. DWG.

SAME AREA REQ AS CONV'AL
CONVENTIONAL TEST HOLES @ 4' ABOVE R.K



(E)

scl lm 2'

4' lm sand

platy frags 20% Hard

11½ Bottom

(G)

3-4' Dense Rd brn

Trace Rx

lmy sand

y brn, str brn

14' Bottom

Ribbons 5"

org brn CL - cl lm