

LAYOUT 8/5/02 10am INSP 4 _____
 INSP 2 8/6/02 ASAP INSP 5 _____
 INSP 3 _____ INSP 6 _____

ISSUE DATE: 6/20/2002 **PERMIT** P 517321
 APPROVAL DATE: 8/6/02 **INDEXED** A 59907-N

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

03-337464

Hatfield's Equipment IS PERMITTED TO INSTALL ALTER
 ADDRESS: 13785 Burntwoods Rd., Glenelg PHONE NUMBER: 301-854-6172
 SUBDIVISION: Friendship Lakes LOT NUMBER: 15
 ADDRESS: 2920 New Rover Road 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: 180
 LINEAR FEET OF TRENCH REQUIRED: 240 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. Effective area begins at 3.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box as shown on the approved site plan. Run trenches on contour.
NOTES:	Basement Service by gravity is not proposed.

PLANS APPROVED: Steven R. Krieg OK SRK 6/20/02 DATE: 6/03/2002

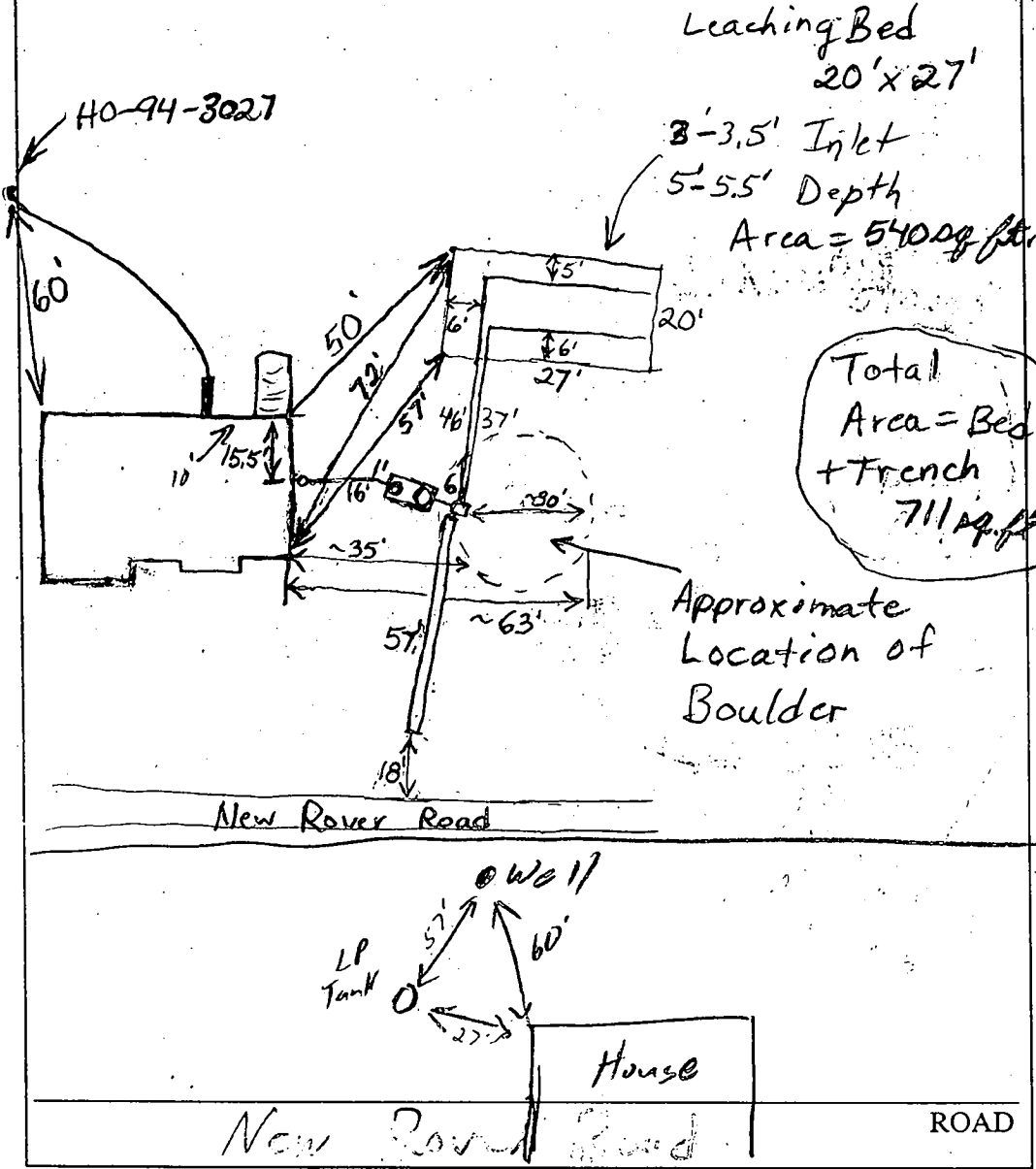
NOTES: PERMIT VOID AFTER 2 YEARS
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
 WATERTIGHT SEPTIC TANKS REQUIRED
 ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
 MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS 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 BUILDING PERMITS SIGNED AND RETURNED ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

10-7-02 800 138315 - UG PERIPANE TANK
 7-31-03 800 142997 - SW ROOM

A59907-N

NOT TO SCALE



Leaching Bed
20' x 27'
3'-3.5' Inlet
5'-5.5' Depth
Area = 540 sq ft.

Total Area = Bed + Trench
711 sq ft.

Approximate Location of Boulder

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3.0'	3.0'	5.0'
NUMBER OF TRENCHES <u>1</u>		
TOTAL LENGTH <u>57'</u>		
ABSORPTION AREA <u>171 sq ft.</u>		
DISTRIBUTION BOX LEVEL <u>yes</u>		
DISTRIBUTION BOX BAFFLE <u>yes</u>		
DISTRIBUTION BOX PORT <u>no</u>		

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	<u>Yes</u>
CAPACITY	<u>1500</u> GAL
SEAM LOC	<u>Top</u>
TANK LID DEPTH	<u>~2'</u>
BAFFLES	<u>Yes</u>
BAFFLE FILTER	<u>No</u>
MANHOLE LOC	<u>Rear</u>
6" PORT LOC	<u>Front</u>
WATERTIGHT TEST	<u>No</u>
SEPTIC TANK 2 LEVEL	<u>N/A</u>
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____

PRE-CONSTRUCTION 8/5/02 To install 4 trenches of approximately 60' toward New Rover Road.

INSTALLATION 8/5/02 Tank set. First trench done. Some rock in tank hole and beginning of first trench. (BB) 8/6/02 Huge boulder in highest area of septic easement. Unable to dig through it. To install leaching bed away from boulder to conserve area. O.K. to cover. (BB)

BUILDING PERMIT SIGNED
AND RETURNED

FINAL INSPECTOR B. Baker

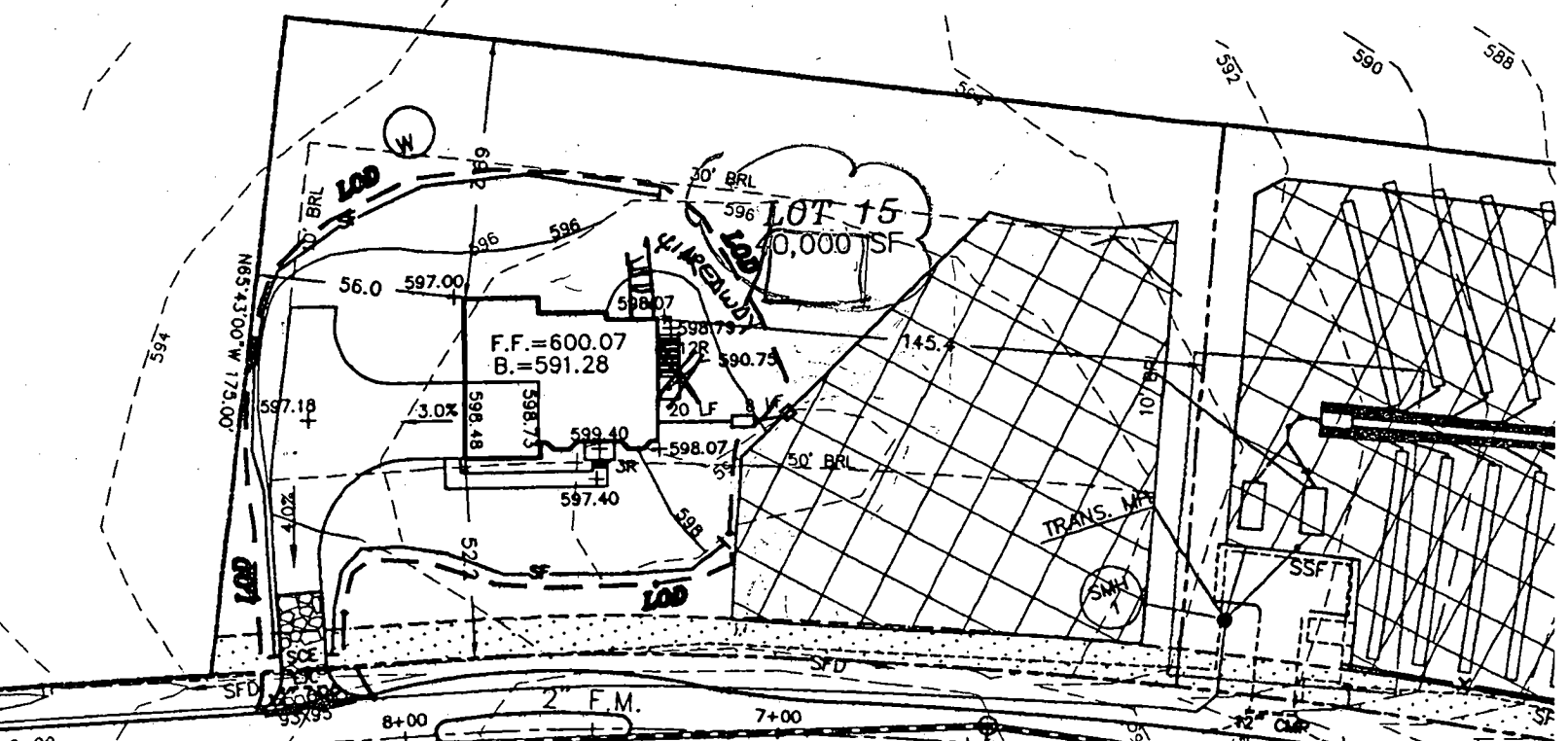
DATE OF APPROVAL 8/6/02

Lot 15
2920 New River Rd.

HEALTH Dept.
ENG:
MILLENBERG -
SAM

410/997-0298

36



Total linear feet of trench required 210 feet

Width of trench(es) 3 feet

Depth of trench(es) 5 feet

Depth of stone required below distribution pipe 2 feet

**LOT 15
SEPTIC SYSTEM DATA**

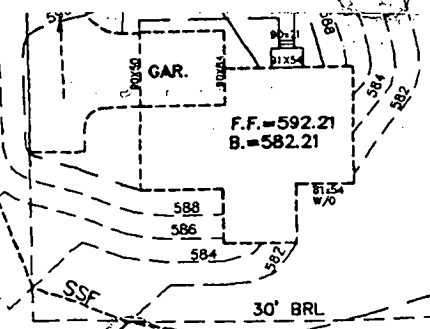
FIRST FLOOR EL	599.57
INV. OUT OF HOUSE	595.81
INV. IN SEPTIC TANK	595.41
INV. OUT SEPTIC TANK	595.16
EXIST EL ● SEPTIC TANK	597.70
PROP EL ● SEPTIC TANK	598.22
INV. IN DIST. BOX	595.00
EXIST EL ● DIST. BOX	598.00

* BASEMENT SEWERAGE TO BE PUMPED.

Approved Septic System Plan
Howard County Health Department

[Signature]
Signature

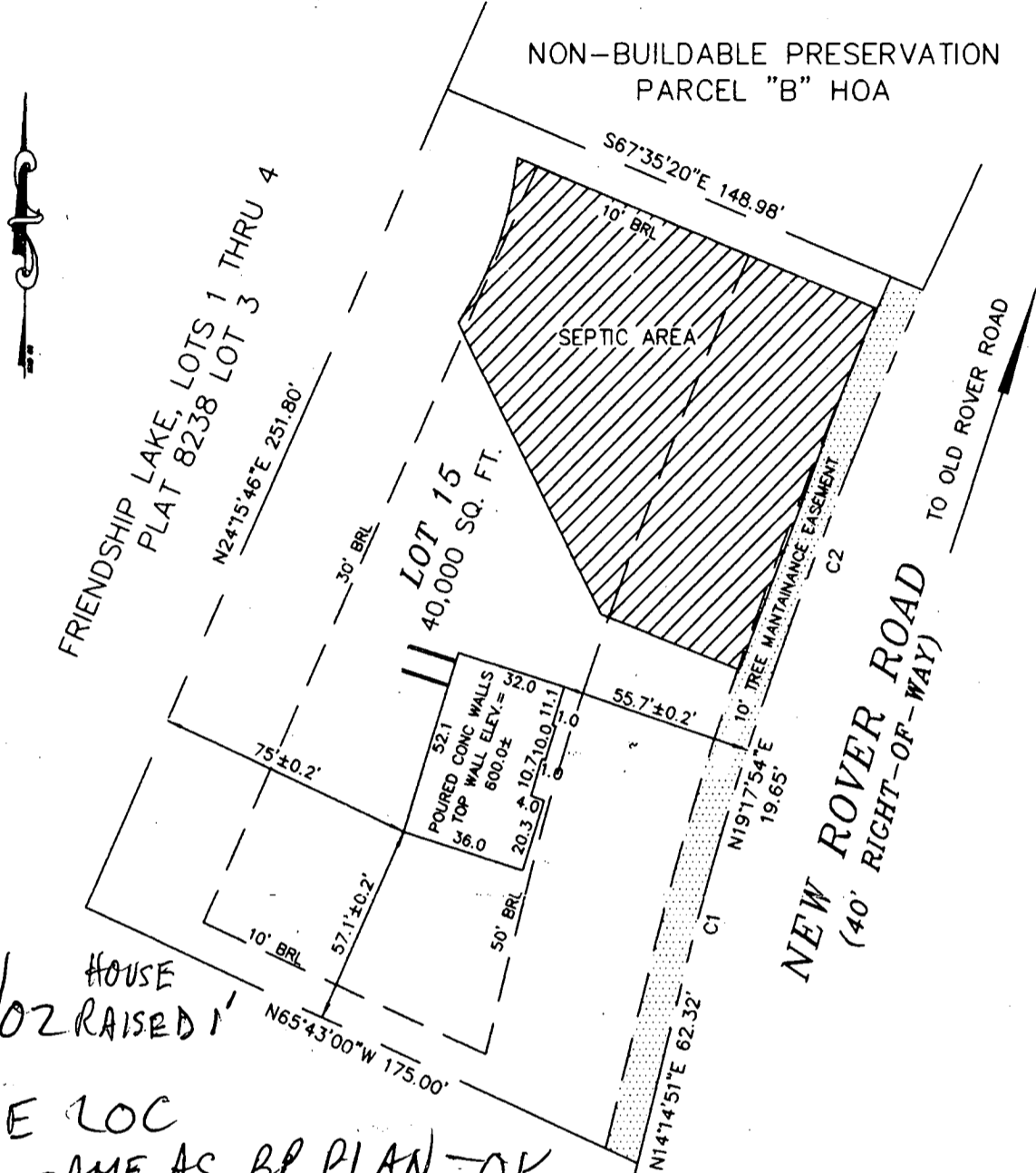
12/10/02
Date



BP# B00135874

CURVE TABLE

	DELTA	LENGTH	RADIUS	TANGENT	CHORD
C1	05 17' 54"	64.73	700.00	32.39	64.71
C2	04 43' 05"	111.64	1355.73	55.85	111.61



6/27/02 HOUSE RAISED 1'
HOUSE LOC APPROX SAME AS BP PLAN - OK

LOT 15
FRIENDSHIP LAKES
LOTS 5 THRU 15
& PRES. PARCELS A&B
A RESUBDIVISION OF FRIENDSHIP LAKES
LOTS 1, 2, & 4
TAX MAP 15, PARCEL NO. 175

- LEGEND
- O/H = OVERHANG
 - A/C = HEAT PUMP/AIR COND.
 - G/M = GAS METER
 - E/M = ELECTRIC METER
 - C = CHIMNEY
 - B/W = BAY WINDOW
 - D/W = DRIVEWAY
 - CONC = CONCRETE
 - S = CONC STOOP

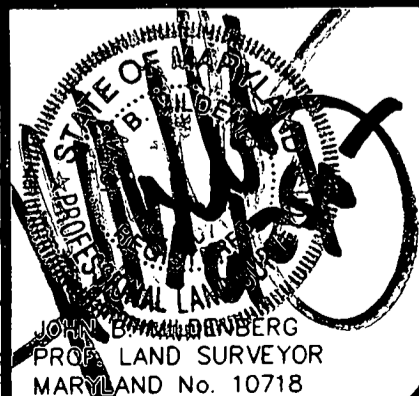
ADDRESS: NEW ROVER ROAD

ELECTION DISTRICT No. 3
HOWARD COUNTY, MARYLAND

THE INFORMATION SHOWN HAS BEEN ESTABLISHED BY CURRENT ACCEPTABLE SURVEY PROCEDURES AND FROM AVAILABLE RECORD INFORMATION. THIS DRAWING IS TO BE USED FOR TITLE TRANSFER FINANCING, OR REFINANCING ONLY AND IS NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES, LOCATION OF FENCES, GARAGES, BUILDINGS, OR OTHER EXISTING OR FUTURE IMPROVEMENTS.

MILDENBERG BOENDER, & ASSOC., INC.

Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



FOUNDATION	DATE: 06-07-02	FINAL LOCATION	DATE:
DRAWN BY: D.FOGL	SCALE: 1" = 50'		
PROJECT NO.: 99010	LOCATION DRAWING		

8/7/02
AM

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 & Son Inc Telephone #: (410) 549-6960
Address: 5720 Kloss Mill Road
Sykesville, MD 21784

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): CHARLES A. KLEIN, JR License# 6521
*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: Williamburg Group Telephone # (410) 997-8800
Subdivision: Friendship Dale Lot #: 15 Well Tag #: HO-94-3027
Site Address: 2900 NEW ROVER ROAD
WEST FRIENDSHIP MD 21794

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: JACOZZI Make: HOWARD Two piece watertight cap:
Model #: SS45-13P-52 Model#: PT-800 Screened, vented well cap:
Pump Capacity: 5 GPM Depth: 42" (36" min) Cap secured to casing:
Well Yield: 4 GPM NSF approved: Conduit min 18" B.G.:
Depth of well encountered at time of pump installation: 340 (feet) Conduit secured to well cap:
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:

Piping to house House Connection
Type: POLYETHYLENE PVC sleeved to undisturbed soil at wall penetration: Yes
PSI: 1" (160 psi min) Approximate length of sleeve: _____
Depth of supply line: 42 (36" min) 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.

Charles A. Klein Jr 6/30/02
Signature of company representative responsible for installation date

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

Date Insp. Requested: 8/5/02 9:10 AM Date Insp. Approved: 8/7/02 (SO)
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 grout observed below pitless adapter

8/6/02
Not Finished
BB

C1 0850

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED

COUNTY NUMBER A59907N

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well 340 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-94-3027

OWNER ROVER MILL LLC STREET OR RFD New River Road TOWN Gleneta SUBDIVISION Friendship Lakes SECTION LOT 15

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Sandy, Sand Stone MICKA, Sand Stone MICKA.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS (22), NO. OF POUNDS (2280), GALLONS OF WATER (132), DEPTH OF GROUT SEAL (30 feet).

CASING RECORD: casing types (ST, CO, PL, OT), MAIN CASING TYPE (PL), Nominal diameter (6 inch), Total depth (90 feet).

OTHER CASING (if used) section with diameter and depth fields.

SCREEN RECORD: screen type (HO), insert appropriate code below.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: YES (Y), NO (N)

CIRCLE APPROPRIATE LETTER: A (abandoned), E (electric log), P (test well converted).

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. M SD 112, DRILLERS SIGNATURE (Must match signature on application)

LIC. NO. M D

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

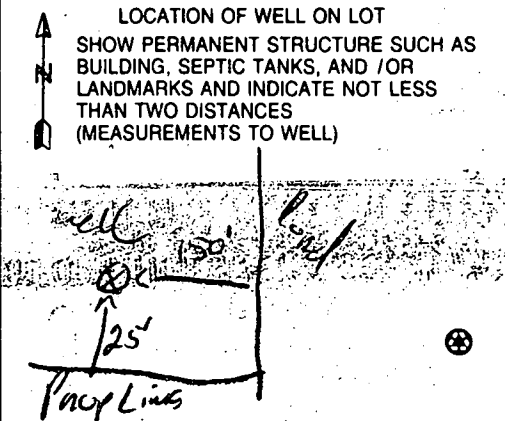
C2 DEPTH (nearest ft.) table with columns 1-21 and 23-51. Includes slot size and diameter of screen information.

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 O

C3 PUMPING TEST: HOURS PUMPED (3), PUMPING RATE (4 gal. per min.), METHOD USED TO MEASURE PUMPING RATE (Bucket), WATER LEVEL (distance from land surface) BEFORE PUMPING (41 ft), WHEN PUMPING (101 ft), TYPE OF PUMP USED (S) submersible.

PUMP INSTALLED: DRILLER INSTALLED PUMP (NO), TYPE OF PUMP INSTALLED (29), CAPACITY: GALLONS PER MINUTE (31-35), PUMP HORSE POWER (37-41), PUMP COLUMN LENGTH (43-47), CASING HEIGHT (above/below land surface).



B 1 04795

SEQUENCE NO. (DP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL W514954 please print or type

STATE PERMIT NUMBER

40-99-3027 fill in this form completely

Date Received (APA) 050107

OWNER INFORMATION

ROVER MILL LLC 8808 CENTRE PARK DR COLUMBIA MD 21045

B 3

LOCATION OF WELL

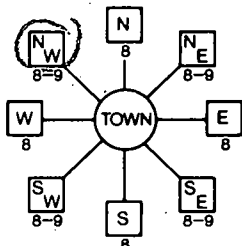
HOWARD COUNTY FRIENDSHIP LAKES SECTION 15 GLENELG MILES FROM TOWN 2 MI

DRILLER INFORMATION

Ralph E. Mayne MSO 11277 License No. 80 RALPH E. MAYNE WELL DRILLING 17024 Handy Rd. Mt Airy MD 02-25-01

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



new flower rd NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



150 DISTANCE FROM ROAD ENTER FT or MI 64

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 530

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT) PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL) TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard CO H54907N COUNTY NAME COUNTY NO. DATE ISSUED 030507 AIR-ROTARY EXP. DATE 3/5/02 NORTH GRID 530000 EAST GRID 770000

APPROXIMATE DEPTH OF WELL 150 FEET

APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTARY AIR-Percussion ROTARY (Hydraulic Rotary) CABLE REVerse-ROTary Drive-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

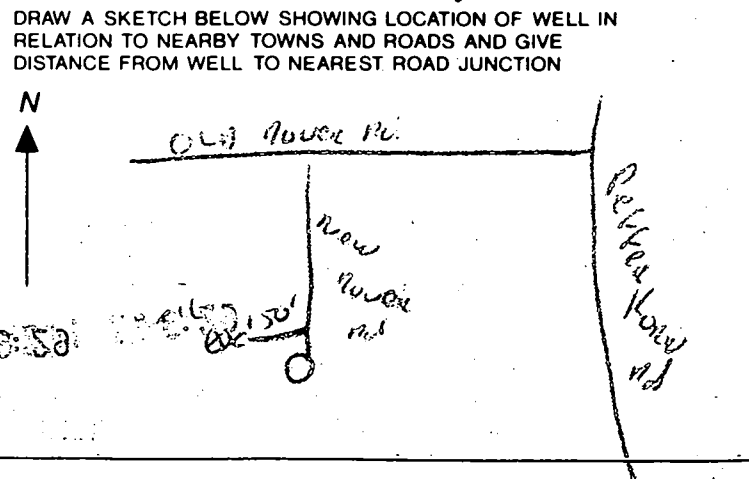
- THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

Not to be filled in by driller (OEP USE ONLY)

APPROX. PERMIT NUMBER 4000 GAP 51-1 FORCE 111 PERMIT No. 40-99-3027

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. well 2. TAG, LOC OK 3. GROUT HAS 6" OF H2O @ TOP MR 6/1/01 12:35



SPECIAL CONDITIONS

APPLICATION

PERCOLATION TESTING

A 59907

P _____

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

DISTRICT _____

DATE 4/1/98

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 Louis Auxier, et al

ADDRESS 1612 MEADOWLAND Terrace, Olney MD 20832 PHONE (301) 570-6083

AGENT OR PROSPECTIVE BUYER SAM ECKER

ADDRESS P.O. BOX 187 WESTFRIENDS #10, MD 21794 PHONE (410) 992-8486

PROPERTY LOCATION:

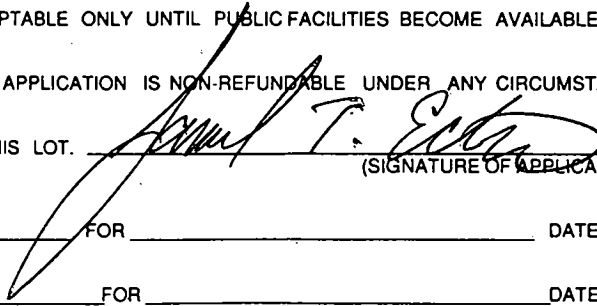
SUBDIVISION RESUB FRIENDSHIP LAKE LOT NO. NEW LOT #9

ROAD AND DESCRIPTION 13721 OLD ROVER ROAD W. FRIENDSHIP MD 21794
LOTS 1, 2, 4

TAX MAP 15 PARCEL # 175

SIZE OF LOT 40,010 sq ft TYPE BLDG. SFD
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.


(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

COUNTY #

SOIL PROFILE

23/24/27

0'
4'
14'

ORANGE
CLAY
LOAM

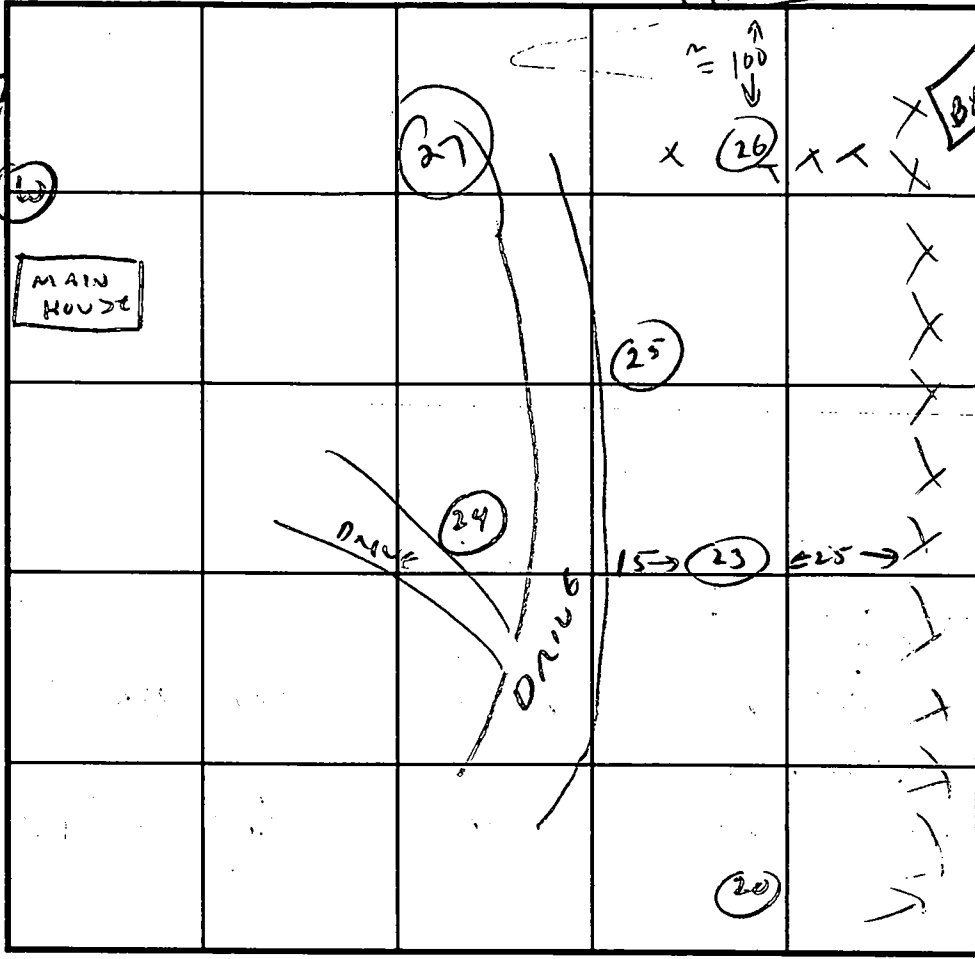
ORANGE
TAN
MICA
SILICA

25-26-27

5'
13'

ORANGE
CLAY
LOAM

TAN
ORANGE
M, S, CLM



SOIL PROFILE

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4/13/98	23	4	5:46	5:48	5:48	5:51	3MIN
	24	4	5:59	6:02	6:02	6:06	4MIN
	25	4	5:45	5:50	5:50	5:57	7MIN
	26	UNTIL OK 4-13'					
	27	4	5:53	5:55	5:55	5:58	3MIN

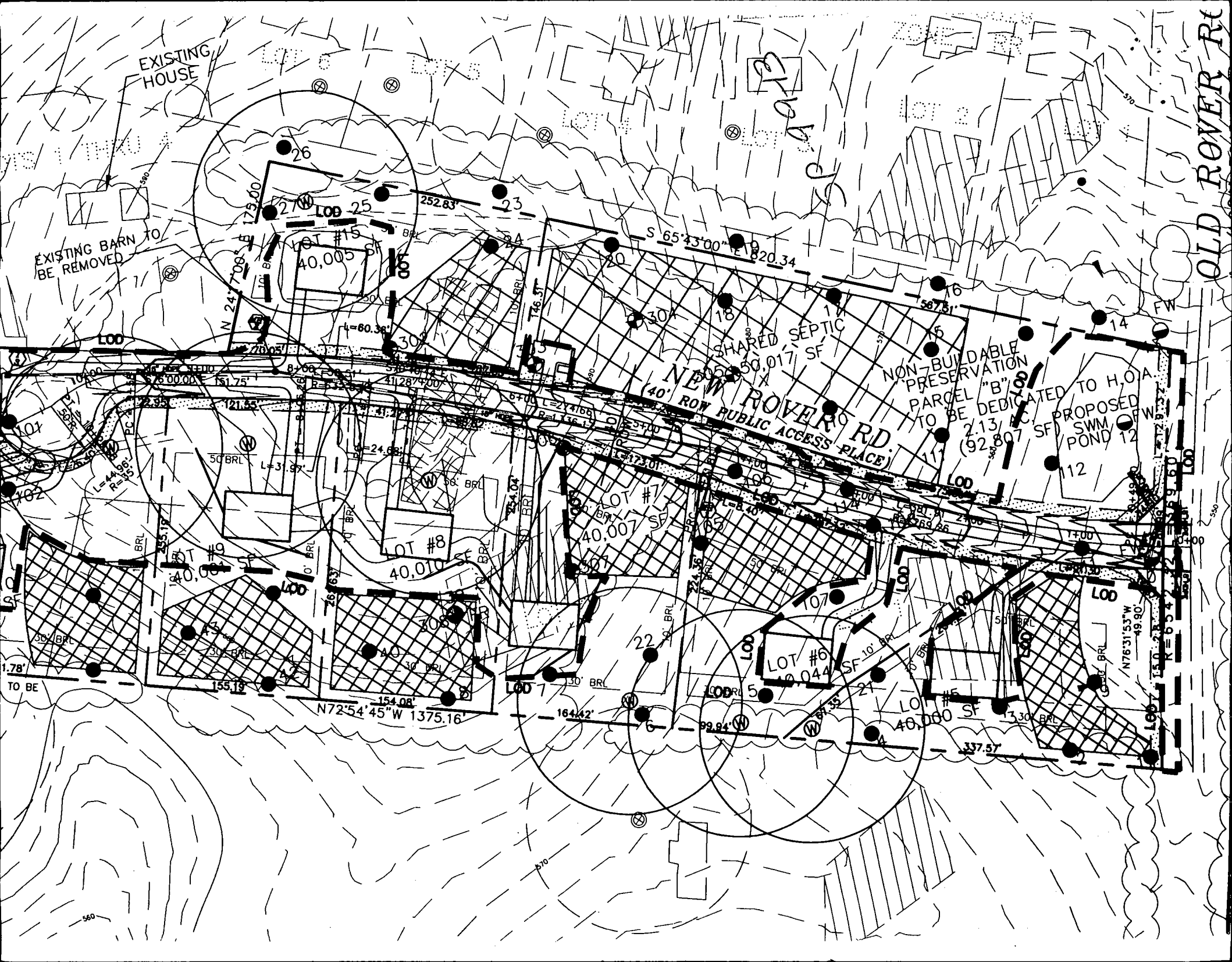
REMARKS _____

TYPE OF SOIL _____

TESTED BY CRAIG WILLIAMS ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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



EXISTING HOUSE

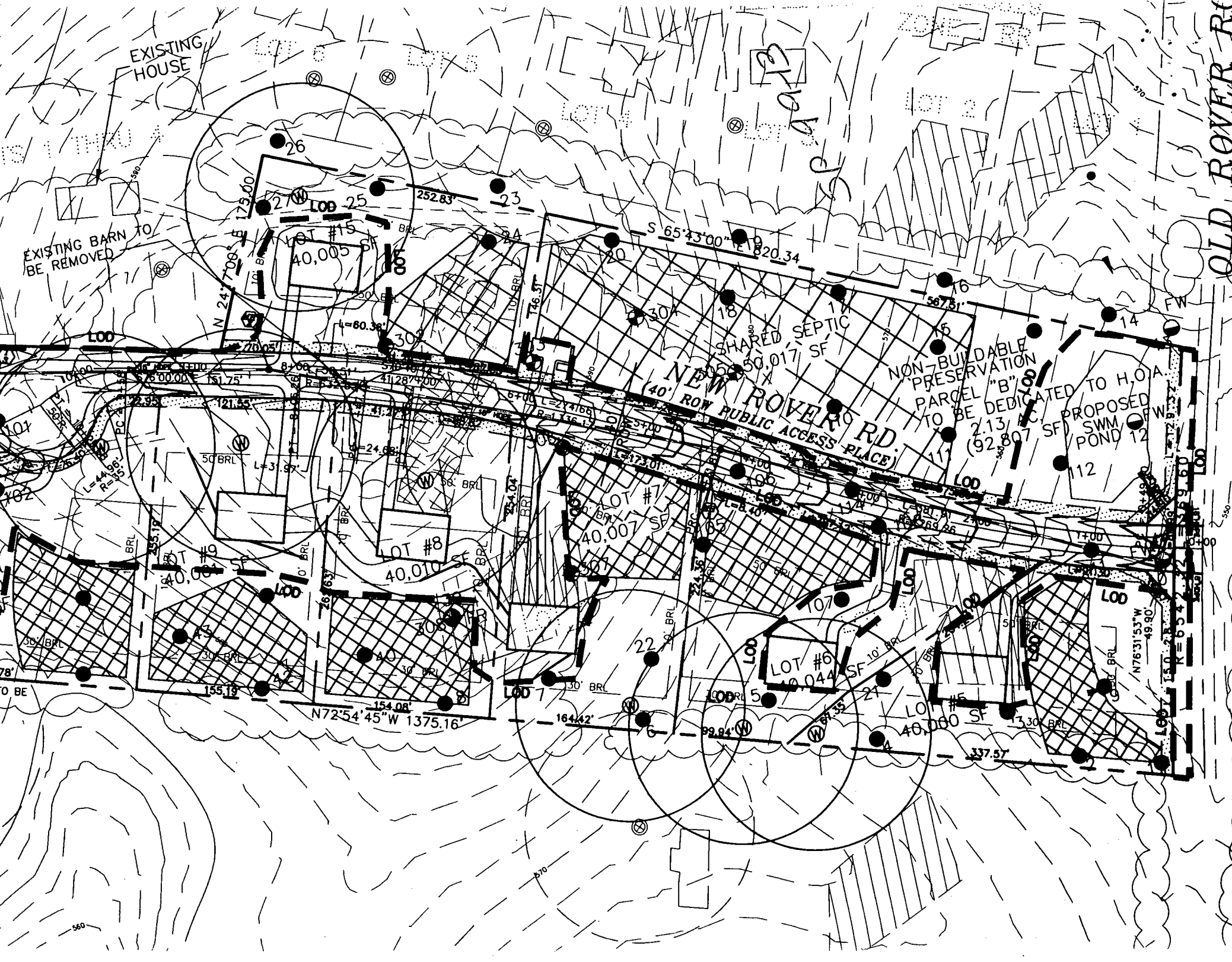
EXISTING BARN TO BE REMOVED

SEWARD

OLD ROVER RD

NEW ROVER RD
(40' ROW PUBLIC ACCESS PLACE)

NON-BUILDABLE PRESERVATION PARCEL "B" TO BE DEDICATED TO H.O.A.
2.13 AC (92,807 SF) PROPOSED SWM POND 12



TO BE

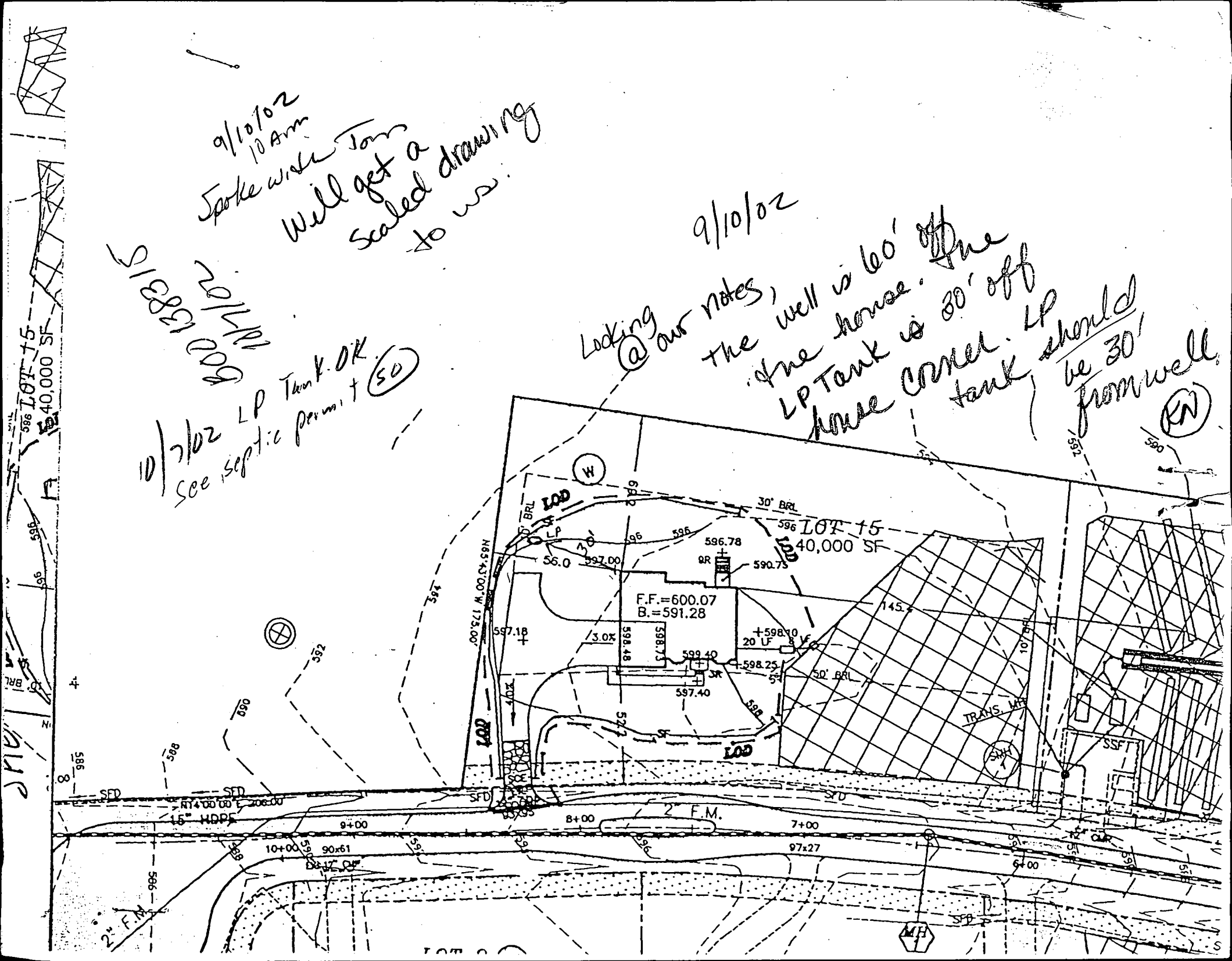
560

9/10/02
 10 AM
 Spoke with Tom
 Will get a
 sealed drawing
 to us.

5138816
 600 N 1/2

10/2/02 LP Tank OK
 See septic permit (50)

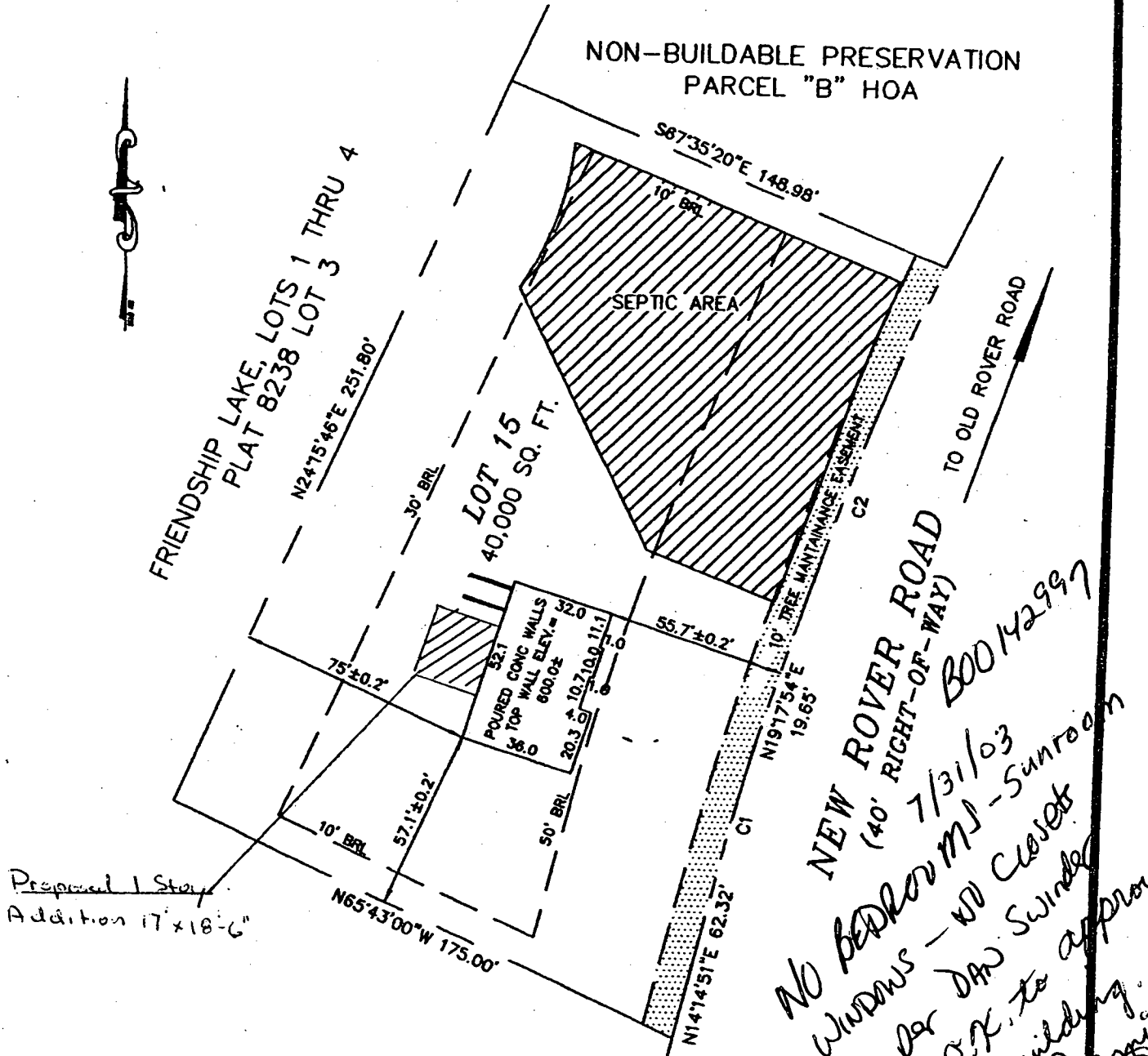
Looking @ our notes,
 9/10/02
 the well is 60' off
 the house. The
 LP Tank is 30' off
 house corner. LP
 tank should
 be 30'
 from well. (KN)



BP# [REDACTED]

CURVE TABLE 2920 NEW ROVER RD.

	DELTA	LENGTH	RADIUS	TANGENT	CHORD
C1	05 17' 54"	64.73	700.00	32.39	64.71
C2	04 43' 05"	111.84	1355.73	55.85	111.81



Proposed 1 Story Addition 17x18-6

NEW ROVER ROAD (40' RIGHT-OF-WAY)
 NO BEDROOMS - Sunroom
 WINDOWS - NO Closet
 per DAW Swinick
 O.K. to approve
 Building Permit
 BB

LOT 15
FRIENDSHIP LAKES
LOTS 5 THRU 15
& PRES. PARCELS A&B
A RESUBDIVISION OF FRIENDSHIP LAKES
LOTS 1, 2, & 4
TAX MAP 15, PARCEL NO. 175

ADDRESS: NEW ROVER ROAD

- LEGEND**
- O/H = OVERHANG
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 - G/M = GAS METER
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