

8/16/00 - Layout inspection 10:00

Need WPT form

8/10/00  
8/14/00 3:00 a.m.  
6/12/01 12:00

# PERMIT

## SEWAGE DISPOSAL SYSTEM

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
410-313-2640

P 514180  
A 50548-A  
ISSUE DATE 8/9/00  
APPROVAL DATE 6/12/01

04-357728

**INDEXED**

Harrison Contracting IS PERMITTED TO INSTALL X ALTER

ADDRESS 2858 Flag Marsh Road, Mt. Airy, MD 21771 PHONE 410-795-8691

SUBDIVISION Harris Property LOT NUMBER 2 ADDRESS 16204 Frederick Road

PROPERTY OWNER Robert Leidig PROPERTY OWNER'S ADDRESS 16204 Frederick Road

SEPTIC TANK CAPACITY 1250 1500 GALLONS → Top Seamed

PUMP CHAMBER CAPACITY 1250 1500 GALLONS → Top Seamed

NUMBER OF BEDROOMS 4.5

SQUARE FEET PER BEDROOM 180

LINEAR FEET OF TRENCH REQUIRED 240 (300)

ACTUAL # OF BR REVEALED 8/9/00

(Pumped System)

LAYOUT INSP  
REQ'D PRIOR TO  
INITIAL EXCAVATION  
MR 8/9/00

TRENCHES: Trenches to be 3.0 feet wide. Inlet 2.0 feet below original grade. Bottom maximum depth 4.0 feet below original grade. 2.0 feet of stone below distribution box.

LOCATION: Begin trenches 130 feet up the left (644.71) lot line and 70 feet off that same lot line as seen when facing the lot from Frederick Road. Run trenches on contour toward Frederick Road.

WELL LINE MUST BE 10' FROM ALL PARTS OF SEPTIC SYSTEM - SEE HOWARD CO. PLUMBING

NOTES: \*Maintain 100 feet separation from the well to all parts of the septic system CODE  
Septic pump detail as provided by the installer.  
Pump performance test is necessary prior to Health Department approval of pumped septic system.

TANKS MUST NOT BE IN WELL RADIUS NOR D BOX

PLANS APPROVED Amy Mc Millen DATE 5/1/00

PERMIT VOID AFTER 2 YEARS

NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS

NOTE: TOP OF SEPTIC TANKS ARE TO BE NO DEEPER THAN 3.0 FEET BELOW FINISH GRADE

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS ARE NOT ACCEPTABLE

\*NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX, DRAINFIELDS) TO BE 100 FEET FROM ANY WATER WELL UNLESS OTHERWISE SPECIFICALLY AUTHORIZED

NOTE: NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH UNLESS SPECIFICALLY AUTHORIZED

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

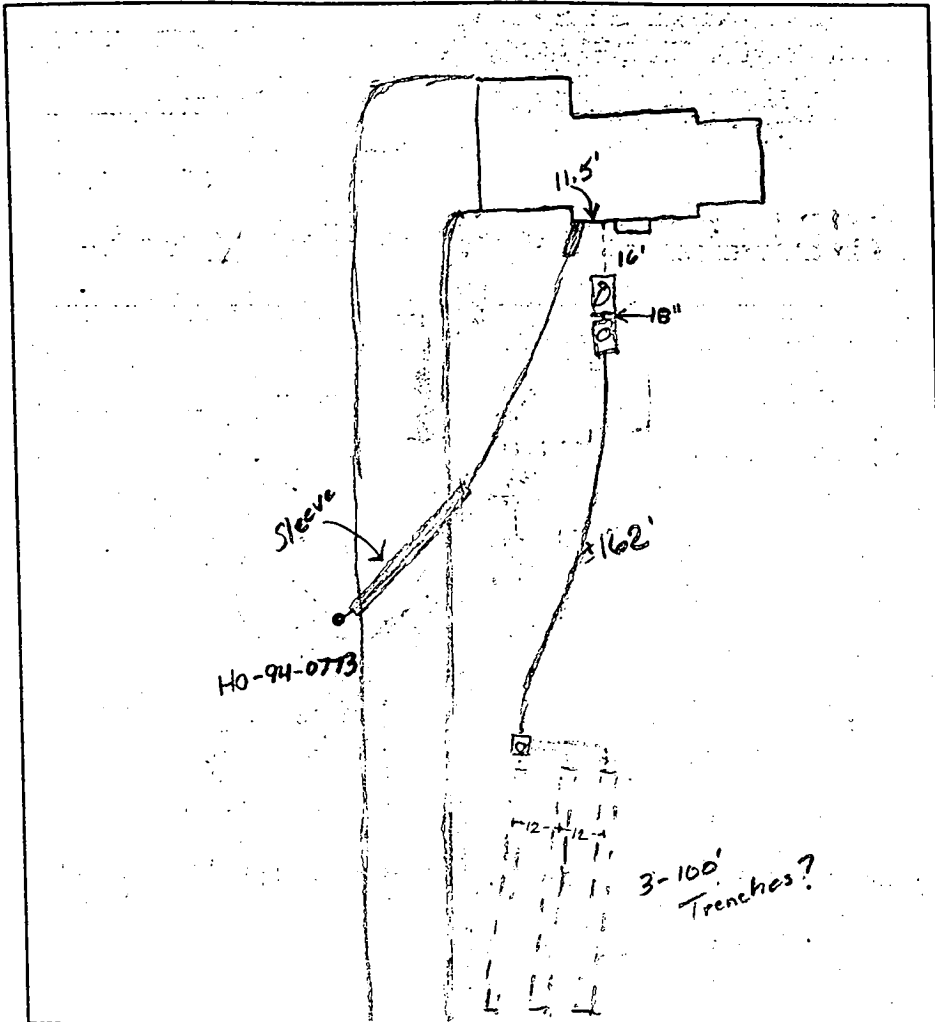
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

NOTE: IF PUMPED SEPTIC SYSTEM REQUIRED, (1) SEPTIC PUMP DETAIL TO BE PROVIDED BY INSTALLER PRIOR TO ISSUANCE OF SEPTIC PERMIT (2) PUMP PERFORMANCE TEST IS NECESSARY PRIOR TO HEALTH DEPARTMENT APPROVAL OF SEPTIC 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  
CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

P 514180

NOT TO SCALE



TRENCH DATA	
TRENCH WIDTH	3 <small>see Installer's Drawing</small>
TRENCH INLET DEPTH	2
TRENCH BOTTOM DEPTH	4
DEPTH OF STONE	2
NUMBER OF TRENCHES	3
TOTAL TRENCH LENGTH	306 LF
ABSORBENT AREA	900 sq ft
DISTRIBUTION BOX LEVEL	<input checked="" type="checkbox"/>
BAFFLE IN DISTRIBUTION BOX	<input checked="" type="checkbox"/>

SEPTIC TANK DATA	
SEPTIC TANK	1500 TS GALLONS
MANHOLE RISER	yes (2 ft)
6 INCH INSPECTION PORT	Yes
PUMP CHAMBER DATA	
PUMP CHAMBER GALLONS	1500 TS
MANHOLE RISER	<input checked="" type="checkbox"/> (2' tall)
ALARM	
PUMP PERFORMANCE TEST	

Frederick Road

PRE-CONSTRUCTION INSPECTION: 8/10/00 system layout confirmed installer to install 3 100' trenches. SDA corners staked. DKS

INSPECTION COMMENTS: 8/11/00 Missed insp. Contractor asked to send drawing. On 8/14/00 Section from house to tank not connected. Pressure line not connected to pump tank. Manhole covers not on tanks. Cleanout on distribution box. Trenches covered. Distribution box partially covered. O.K. to cover well line. PVC conduit not attached correctly to well cap. Waiting on system drawing from installer. (BB) 8/24/00 Contractor sent drawing - pump performance test needed. Pump Alarm OK, on/off pump cycle OK.

INSPECTOR Ronald Plimley DATE SYSTEM APPROVED 6/12/01 *PP/4/2001*

Note: PVC conduit per reference pressure in 2 piece cap - OK P/P  
 on well (Needs WPI form though) 6/12/01 P/P  
 also grounding wire to be done but that electrical inspector.

# APPLICATION

PERCOLATION TESTING

A 50548A

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2840

*PERCOLATION OF  
3 LOT SUBDIVISION (CW)  
2/22/95*

DISTRICT \_\_\_\_\_

DATE 2/22/95

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 STEPHEN S. HARRIS & CHRISTINE M. LAMEROS

ADDRESS 2402 NOBLE MANOR LANE, Frederick, MD 21702 PHONE (W) 410-388-6148 (H) 301-695-0132

AGENT OR PROSPECTIVE BUYER SHANABERGER & LANE

ADDRESS 9726 TOWN & COUNTRY BLDG., E.C., MD. SUITE 104 PHONE 461-9563  
21043

PROPERTY LOCATION:

SUBDIVISION HARRIS PROPERTY, LOTS 1-3 LOT NO. 2

ROAD AND DESCRIPTION N. SIDE ROUTE 144, 1250' WEST OF RT. 94

TAX MAP 7 PARCEL # 425

SIZE OF LOT 2.9781 AC. ± TYPE BLDG. SINGLE-FAMILY DETACHED DWELLING  
(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]*  
(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 \_\_\_\_\_

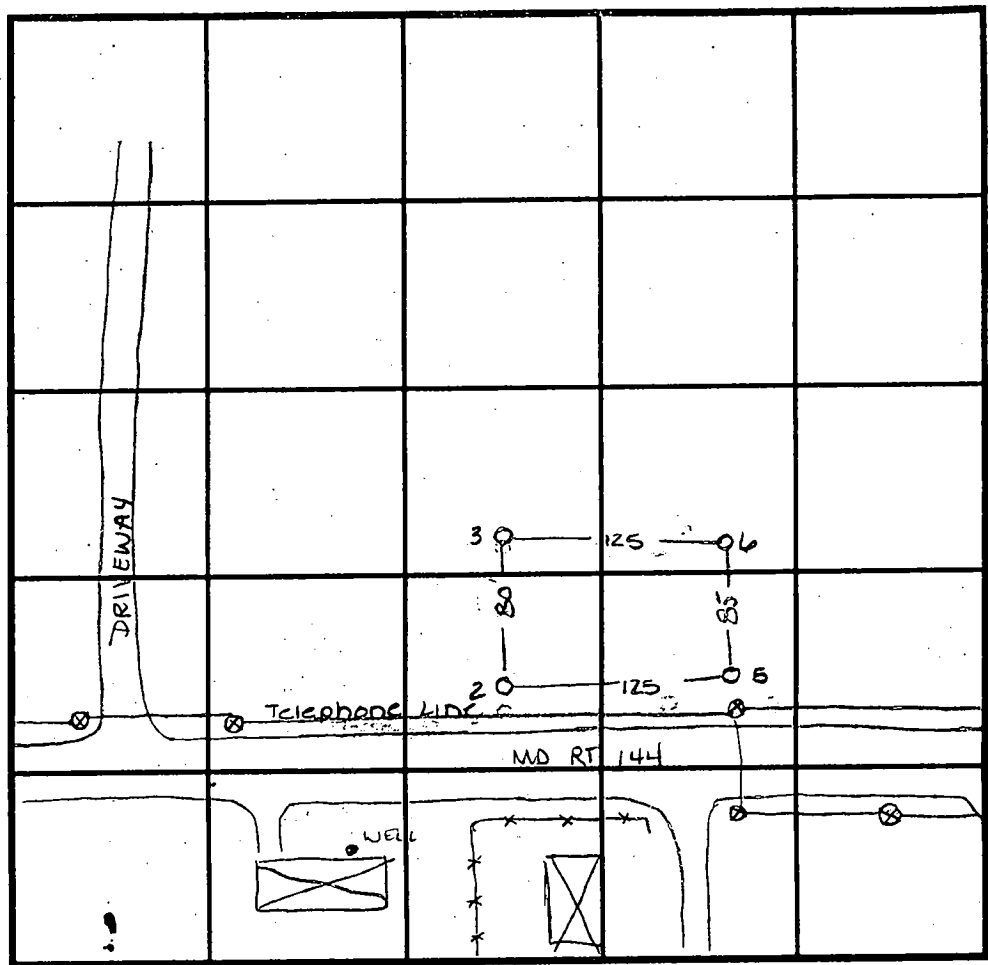
# THIS IS NOT A PERMIT

A 50548-A  
COUNTY #

LOT 2

SOIL PROFILE  
5  
0' yellow brn 6.1m  
2' red 3.1m  
3' pink 5.1m 5% shale OK  
12'

SOIL PROFILE  
6  
0' yellow tan 6.1m  
3' beige 5.1m 30% shale and saprolite mix  
12'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

2  
6' topsoil yellow orange 5.1m gravelly  
2' yellow brn 5.1m 15% shale  
8' 20-30% shale very decayed  
11'

3'  
2' yellow brn 5.1m  
pink matrix color 5.1m 10-15% saprolite yellow red's white mottled from parent rock  
12'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4-17-95	2	3.5 VII'	10:52 <sup>45</sup>	10:53 <sup>30</sup>	10:53 <sup>30</sup>	10:54 <sup>45</sup>	1 1/4 min
	2	repour	10:56	10:58	10:58	11:00 <sup>30</sup>	2 1/2 min
	2	7.5 VII'	11:02 <sup>30</sup>	11:04 <sup>30</sup>	11:04 <sup>30</sup>	11:07	2 1/2 min
	3	3' VI2'	11:06 <sup>45</sup>	11:08	11:08	11:09 <sup>30</sup>	1 1/2 min
	3	repour	11:10	11:12 <sup>15</sup>	11:12 <sup>15</sup>	11:15	2 3/4 min
	5	3.5 VI2'	11:14	11:15 <sup>30</sup>	11:15 <sup>30</sup>	11:17 <sup>30</sup>	2 min
	6	Visual to 12'					OK

REMARKS locate well; septic on all surrounding properties

TYPE OF SOIL \_\_\_\_\_

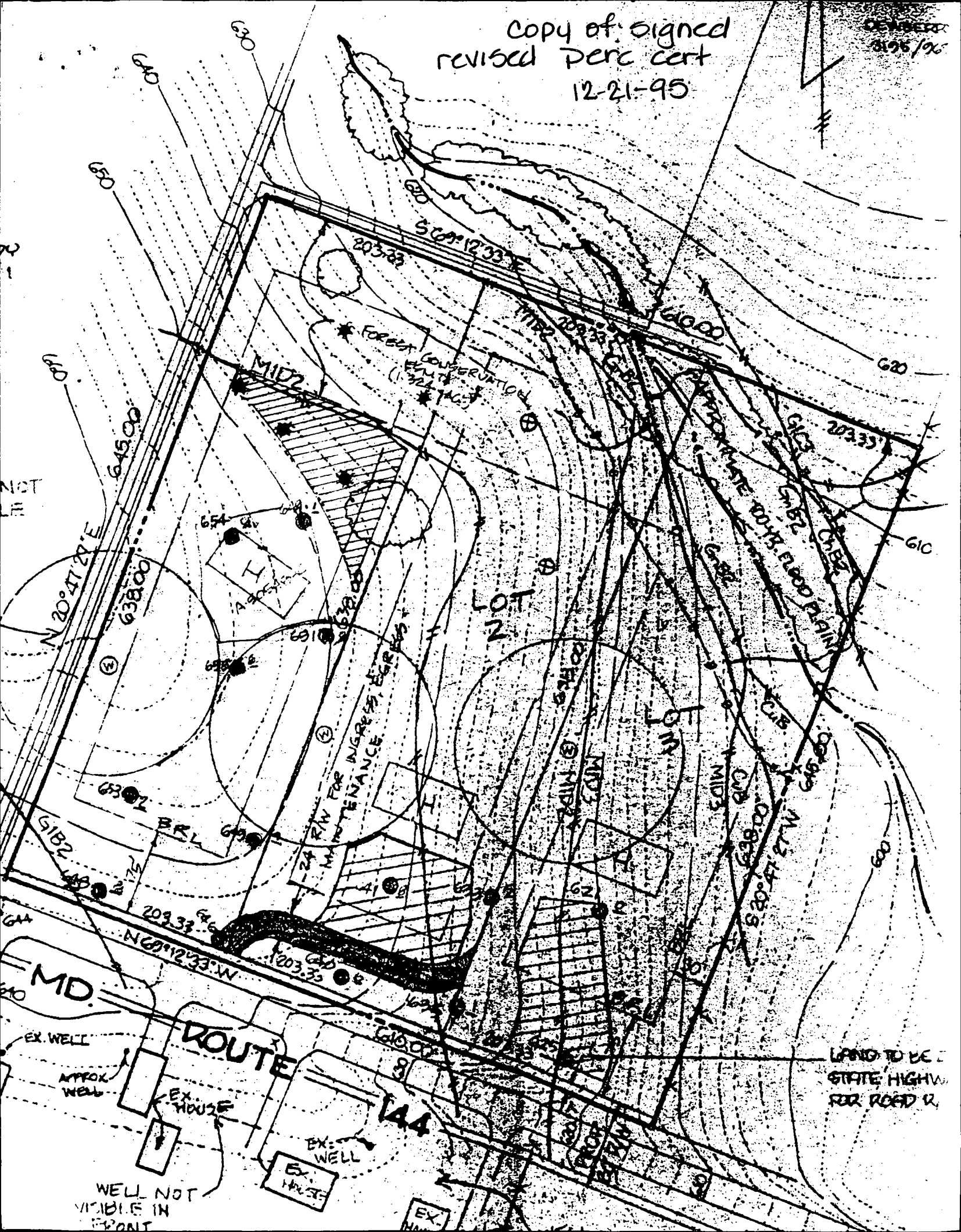
TESTED BY Amy McMillen ALSO PRESENT Olan

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 2 min TRENCH WIDTH 3'

INLET DEPTH 2' MAXIMUM BOTTOM DEPTH 4' SQ. FT./BEDROOM 180

Copy of signed  
revised Perc cert  
12-21-95

DEWEY  
01/26/96



FOREST CONSERVATION  
EASEMENT  
(1.322 AC)

MID2

NOA

APPROXIMATE  
100-YR FLOOD PLAIN

24' RW FOR INGRESS, EGRESS,  
& MAINTENANCE

NOT  
IN

MD

ROUTE  
144

LAND TO BE  
STATE HIGHWAY  
FOR ROAD R.

EX. WELL

APPROX  
WELL

EX. HOUSE

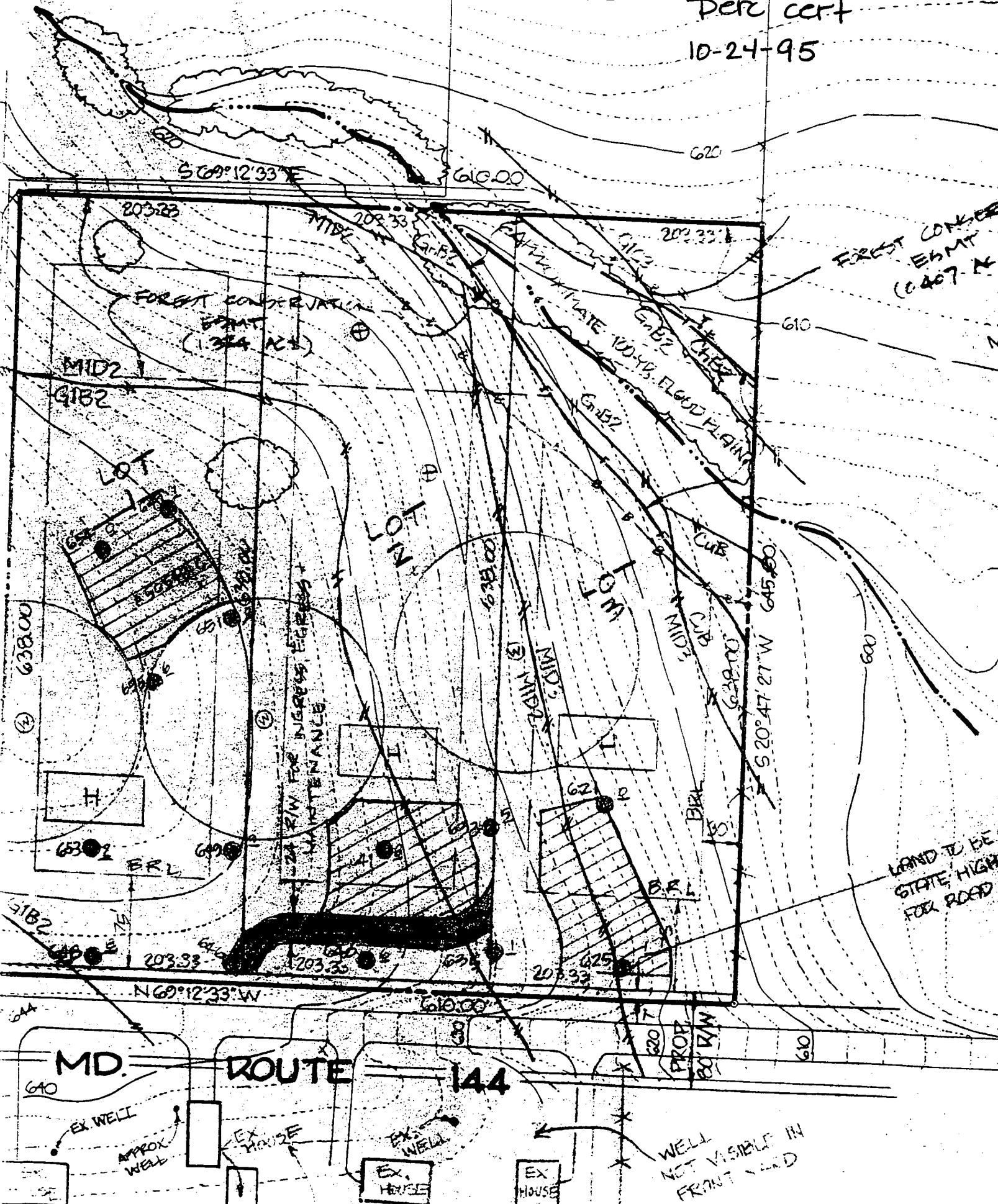
EX. WELL

EX. HOUSE

WELL NOT  
VISIBLE IN  
FRONT

EX. HOUSE

Copy of signed  
Per cert  
10-24-95



BEARING	DISTANCE
N 65° 43' 57" E	76.37'
N 65° 43' 57" E	70.71'
N 65° 43' 57" E	59.69'
N 80° 27' 45" E	59.69'

13. DRIVEWAY REQUIREMENTS:
  - A.) WIDTH - 12 FEET
  - B.) SURFACE - 6 INCHES COATING
  - C.) GEOMETRY - MAXIMUM 15% GRADIENT
  - D.) MINIMUM OF 45 FOOT TURNING RADIUS
  - E.) STRUCTURES - (CULVERTS, BRIDGES) CAPABLE TONS (H25 LOADING)
  - F.) DRAINAGE ELEMENTS - CAPABLE OF PASSING 100-YEAR FLOOD 1 FOOT DEPTH OVER DRIVEWAY SURFACE
  - G.) STRUCTURE CLEARANCES - MINIMUM 12 FEET
  - H.) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE
14. DECLARATION OF MAINTENANCE OBLIGATION FOR PRIVATE USE-IN-COMMON DRIVEWAY SERVING LOTS 1, 2, & 3 IS RECORDED IN LIBER FOLIO
15. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITH THE FOREST CONSERVATION EASEMENTS, OR 100 YEAR FLOODPLAIN.

AVOLIO  
1224/67

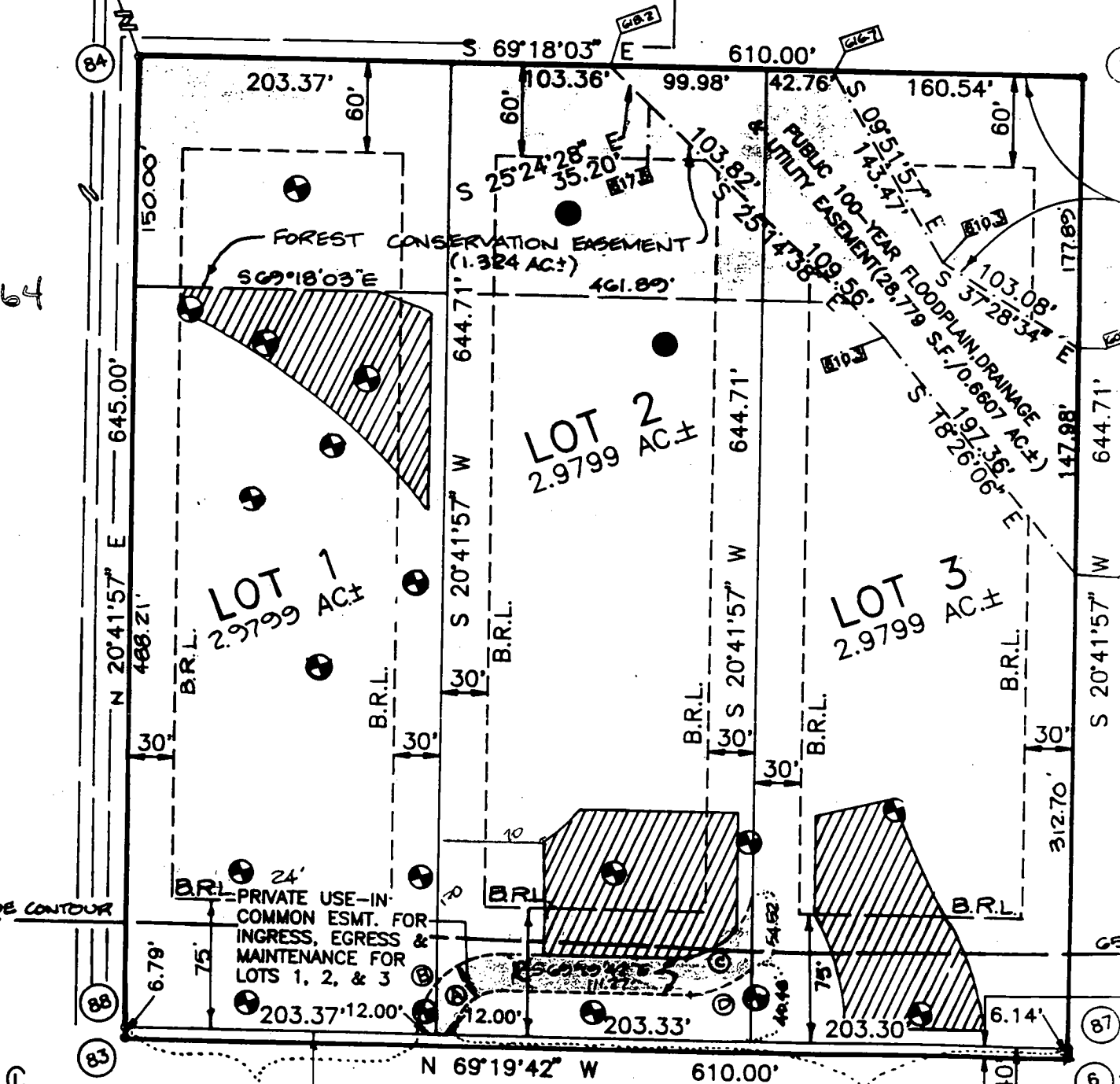
SWADOW  
1250/001

DEWBERRY  
3195/269

copy of  
Signed  
record  
plat  
F-96-64

RADY  
006/01

65dBA NOISE CONTOUR



VEHICULAR INGRESS & EGRESS IS RESTRICTED

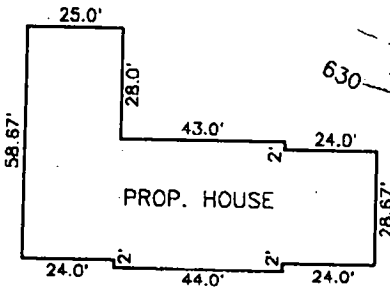
MD. ROUTE 144  
(MINOR ARTERIAL)

VEHICULAR INGRESS & EGRESS IS RESTRICTED

FUTURE 80' R/W

N/F DEWBERRY 3195/969

S 69°18'03" E 203.33'



PUBLIC 100 YR. FLOODPLAIN, DRAINAGE & UTILITY ESMT.

FOREST CON. ESMT.

A. PROP HOUSE  
 FF=646.0  
 BF=637.2  
 INV OUT=638.2

B. PROP TANK  
 EX EL=642.2  
 INV IN=638.0  
 INV OUT=637.7

C. PROP PUMP CHAMBER  
 EX EL=641.7  
 INV IN=637.6±

D. PROP DBOX  
 EX EL=645.4  
 INV IN=643.7  
 INV OUT=643.4

E. PROP TRENCHES  
 INV IN=643.4  
 INLET 2' BELOW GRADE  
 2' DEPTH OF STONE  
 3 TRENCHES @ 80' = 240'  
 (240' REQ'D)  
 ACTUAL LENGTH & NUMBER  
 OF TRENCHES TO BE  
 DETERMINED AT TIME OF  
 SEPTIC PERMIT ISSUANCE.

Approved Septic System Plan  
Howard County Health Department

*Signature*  
 Date 5/1/00

24' PRIVATE USE-IN-COMMON ESMT. FOR INGRESS, EGRESS & MAINTENANCE FOR LOTS 1, 2 & 3.

EX. ASPH. ENT.

Total linear feet of trench required 240 feet

Width of trench(es) 3.0 feet

Depth of trench(es) 4.0 feet

MD ROUTE 144  
80' R/W

Depth of stone required below distribution pipe 2.0 feet

PLOT PLAN  
LOT 2

HARRIS PROPERTY

16204 FREDERICK ROAD  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1" = 100' - APRIL, 2000

REVISED 5/1/00: SEPTIC TANK & PUMP LOCATION



4/25/00

NOTES:

- GRAVITY SERVICE PROVIDED TO FIRST FLOOR ONLY. SEPTIC TO BE PUMPED FROM PUMP CHAMBER TO DBOX. BASEMENT CAN BE SERVICED BY GRAVITY IF MANHOLE ACCESS IS PROVIDED FOR SEPTIC TANK & PUMP CHAMBER.
- PROVIDE 'TOP SEAM' TANK & PUMP CHAMBER PER APPROVED HCHD STANDARDS.
- BASED UPON EXISTING CONDITIONS & PROPOSED GRADING, IT APPEARS THAT A SUB-FOUNDATION WILL NEED TO BE PROVIDED FOR THE LOWER PORTION OF HOUSE.
- AREA OF DISTURBANCE=28,200 S.F.±

I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.



**VANMAR ASSOCIATES, INC.**  
 Engineers Surveyors Planners  
 310 South Main Street P.O. box 328  
 Mount Airy, Maryland 21771  
 (301) 829 2890 (301) 831 5015 (410) 549 2751

REFERENCE

PLAT 12159

JOB NO.

4427

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: P & Mowl Plumbing Telephone #: 301 410-2925
Address: 6118 Moser Rd
Cockeysboro MD 21115

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Richard H. Mowl License# 8535

\*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: Bob Leddie Telephone #: 410 489-2677
Subdivision: HAZZS - FARM Lot #: 2 Well Tag #: HO-94-0773
Site Address: 16204 FREDERICK ROAD
WOOD BINE MD 21797

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Goulds Make: Mott Johnson Two piece watertight cap: [checked]
Model #: 1P70510422 Model #: 1510X Screened, vented well cap: [checked]
Pump Capacity: 7 GPM Depth: 12' 11" (36" min) Cap secured to casing: YES
Well Yield: 4 GPM NSF approved: YES Conduit min 18" E.G.: YES
Depth of well encountered at time of pump installation: 42' (feet) Conduit secured to well cap: YES
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.84
Torque arrestors on Cable guards are required - Must circle one (BOTH)
Safety rope, if used, attached to inside of well casing with eye bolt: NOT USED

Piping to house House Connection
Type: Polyethylene PVC sleeved to undisturbed soil at wall penetration: YES
PSL: 100 (160 psi min) Approximate length of sleeve: 10
Depth of supply line: 2' (36" min) Sleeve caulked and sealed properly: Fernco

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 of company representative responsible for installation: Richard H. Mowl
date: 7/5/01

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

Date Insp. Requested: 6/12/01 Date Insp. Approved: 6/12/01 (RJP) SRK
Inspection Data: Pitless adapter and water supply line at least 36" below grade [checked]
Two piece cap installed and attached to casing securely [checked]
Elec. conduit extends at least 18" below grade/attached to cap properly [checked]
Safety rope installed inside of well casing [checked]
Correct well tag attached properly and casing 8" above finished grade [checked]
Water supply line sleeved adequately at house connection [checked]
Adequate groud observed below pitless adapter [checked]

C1 **4567** SEQUENCE NO. (MDE USE ONLY)  
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.  
 COUNTY NUMBER **A50548-A**

ST/CO USE ONLY  
 DATE RECEIVED

DATE WELL COMPLETED  
**04/25/96**

Depth of Well  
**400**  
 (TO NEAREST FOOT)

PERMIT NO.  
 FROM "PERMIT TO DRILL WELL"  
**H0-94-0773**

OWNER **Stephen Harris**  
 STREET OR RFD **Rt. 144** TOWN **Lisbon**  
 SUBDIVISION **Harris Property** SECTION \_\_\_\_\_ LOT **2**

**WELL LOG**  
 Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
<i>Brown Shale</i>	0	111	
<i>Blue Rock</i>	111	400	✓

**GROUTING RECORD**

WELL HAS BEEN GROUTED  YES  NO

TYPE OF GROUTING MATERIAL (Circle one)  
 CEMENT  BENTONITE CLAY

CEMENT  NO. OF BAGS **30** NO. OF POUNDS **2820**  
 GALLONS OF WATER **180**

DEPTH OF GROUT SEAL (to nearest foot)  
 from **0** ft. to **95** ft.

**CASING RECORD**

casing types insert appropriate code below

ST STEEL  CO CONCRETE  
 PL PLASTIC  OT OTHER

**MAIN CASING TYPE**

Nominal diameter top (main) casing (nearest inch): **6**  
 Total depth of main casing (nearest foot): **115**

**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 BRONZE  HO OPEN HOLE  
 PL PLASTIC  OT OTHER

NUMBER OF UNSUCCESSFUL WELLS: **0**

WELL HYDROFRACTURED  YES  NO

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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

TYPE: MWD/MSD/MGD **24**  
 DRILLERS LIC. NO. \_\_\_\_\_

DRILLERS SIGNATURE  
*Joseph L. Mayne*

LIC. NO. \_\_\_\_\_

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

**DEPTH (nearest ft.)**

**H0** **113** **400**

SLOT SIZE 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_  
 DIAMETER OF SCREEN \_\_\_\_\_ (NEAREST INCH)

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 \_\_\_\_\_  
 74 75 76

70  72  \_\_\_\_\_

TELESCOPE CASING LOG INDICATOR OTHER DATA

**C 3**

**PUMPING TEST**

HOURS PUMPED (nearest hour) **3**

PUMPING RATE (gal. per min.) **4**

METHOD USED TO MEASURE PUMPING RATE **Bucket**

WATER LEVEL (distance from land surface)  
 BEFORE PUMPING **43** ft.  
 WHEN PUMPING **360** ft.

TYPE OF PUMP USED (for test)  
 A air  P piston  T turbine  
 C centrifugal  R rotary  O other (describe below)  
 J jet  S submersible

**PUMP INSTALLED**

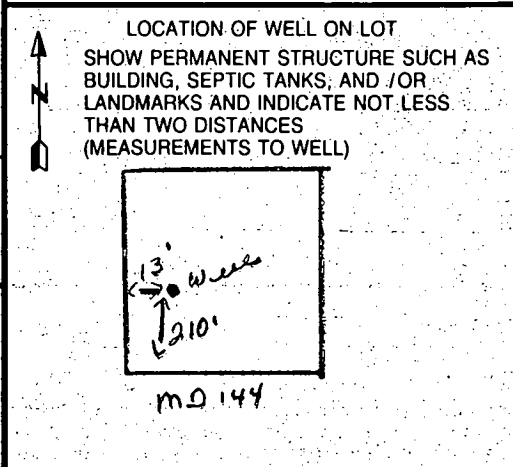
DRILLER WILL INSTALL PUMP (YES or NO)  YES  NO

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.  29

CAPACITY: GALLONS PER MINUTE (to nearest gallon) \_\_\_\_\_  
 PUMP HORSE POWER \_\_\_\_\_  
 PUMP COLUMN LENGTH (nearest ft.) \_\_\_\_\_

CASING HEIGHT (circle appropriate box and enter casing height)  
 + above }  
 - below } **2** (nearest foot)







<b>B 1.</b>	<b>3027</b> SEQUENCE NO. (MDE USE ONLY)	<b>STATE OF MARYLAND PERMIT TO DRILL WELL</b> please print or type	STATE PERMIT NUMBER <b>HO-94-0773</b> <small>70 fill in this form completely 78</small>
-------------	---	---	---

**OWNER INFORMATION**

Date Received (APA) **041996**

**HARRIS** **STEPHEN**  
Last Name Owner First Name

**2402 MOBILE MANOR LANE**  
Street or RFD

**FREDERICK** **MD 21702**  
Town 70 State 72 Zip 76

**B 3** LOCATION OF WELL

**HOWARD**  
8 COUNTY

**HARRIS PROPERTY**  
23 SUBDIVISION 42

SECTION **44** **46** LOT **2** **48** **50**

**LISBON**  
52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) **2** **M** **I**  
73 76 77 78

**DRILLER INFORMATION** CIRCLE: MSD/MGD/MWD

**Joseph L. Maime**  
Driller's Name License No. 80 **24**

**Joseph L. Maime Well Drilling**  
Firm Name

**5512 Ridge Rd. Mt. Airy Md. 21771**  
Address

**Joseph L. Maime 4/19/96**  
Signature Date

**B 4** DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

NEAR WHAT ROAD **MD 144**  
11 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
NORTH  WEST  EAST  SOUTH

DISTANCE FROM ROAD **210**  
34 37

ENTER FT OR MI **FT**  
38 39

TAX MAP: \_\_\_\_\_ BLK: \_\_\_\_\_ PARCEL \_\_\_\_\_

**B 2** WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) **5** **8** **12**

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500** **14** **20**

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

**D** HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

**F** FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

**I** INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)

**P** PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)

**T** TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

**Howard Co.** **A50548-A**  
COUNTY NAME COUNTY NO.

STATE SIGNATURE **Amy M. Melle** INSERT S  DATE ISSUED **4/19/97** EXP. DATE **4/19/97**

**041996** CO SIGNATURE **Amy M. Melle** EXP. DATE **4/19/97**

NORTH GRID **550000** EAST GRID **0770000**  
50 55 57 63

APPROXIMATE DEPTH OF WELL **200** FEET  
24 28

APPROXIMATE DIAMETER OF WELL **6** INCH  
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**

other \_\_\_\_\_

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- WELL**
- 
- 

WRITE THE BOX NUMBER FROM THE MAP HERE

**770**  
**550**

000  
000

**4-25-96**  
**9:00 grout +**  
**COMPLETE AT 411**  
**NO ONE AT SITE**  
**LOCATION OK**  
**TAG ON WELL OK**  
**± 28 BAG GROUT USED**

**REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)**

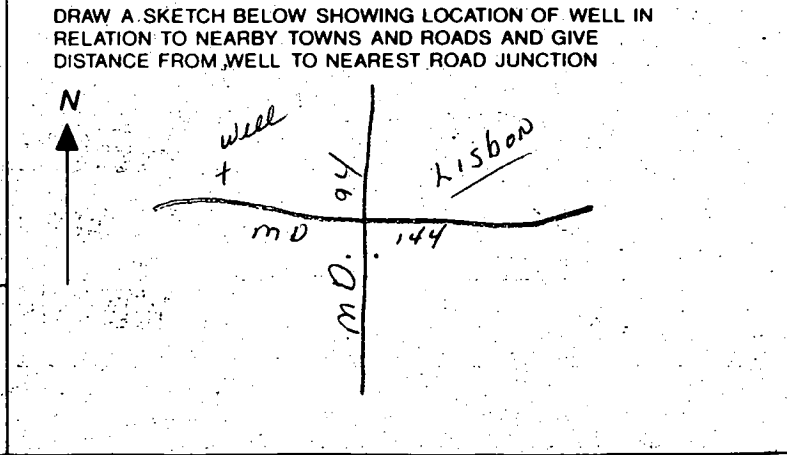
**N** THIS WELL WILL NOT REPLACE AN EXISTING WELL

**Y** THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

**S** THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

**D** THIS WELL WILL DEEPEAN 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 **GAP**

FORCE **AM** WRITE INITIALS IN BOX PERMIT No. **HO-94-0773**

301-829-2164  
Fax 301-829-5384

Joseph L. Mayne Well Drilling  
5512 Ridge Rd.  
Mt. Airy, Md. 21771

Please Deliver The Following Fax To: *Howard Co. Health Department*

Name *amy Mille*

Telephone no. *313-2640*

Fax no. *410-313-2648*

Fax From *Joseph Mayne Well Drilling*

Pages 2 including Transmittal page:

Date *4/25/96*

Comments *Results of yield test for Harris Prop Lot 2*  
*Well had 115 ft casing, 95 ft open hole, 30 bags cement*  
*& pumped 4 gal per min. Will send well completion*  
*tomorrow.*

*Joseph Mayne*



**GOULDS PUMPS**



**Submersible Effluent Pump**

MODEL

**3885**

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

**APPLICATIONS**

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

**SPECIFICATIONS**

**Pump**

- Solids handling capabilities: 3/4" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

**FEATURES**

- **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.
- **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.
- **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

- **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on three phase models to guard against component damage on accidental reverse rotation.
- **Fasteners:** 300 series stainless steel.
- Capable of running dry without damage to components.
- Designed for continuous operation when fully submerged.

**MOTORS**

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- **Class B insulation.**

**Single phase:**

- Built-in overload with automatic reset.
- All single phase models feature capacitor start motors for maximum starting torque.
- 1/2 and 3/4 HP - 16/3 SJTOW with 115 V or 230 V three prong plug.
- 3/4-2 HP - 14/3 STOW with bare leads.

**Three phase:**

- Overload protection must be provided in starter unit.
- 1/2-2 HP - 14/4 STOW with bare leads.

- **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage.

- **Bearings:** Upper and lower heavy duty ball bearing construction.

- **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. 20 foot standard with optional lengths available.

- **O-ring:** Assures positive sealing against contaminants and oil leakage.

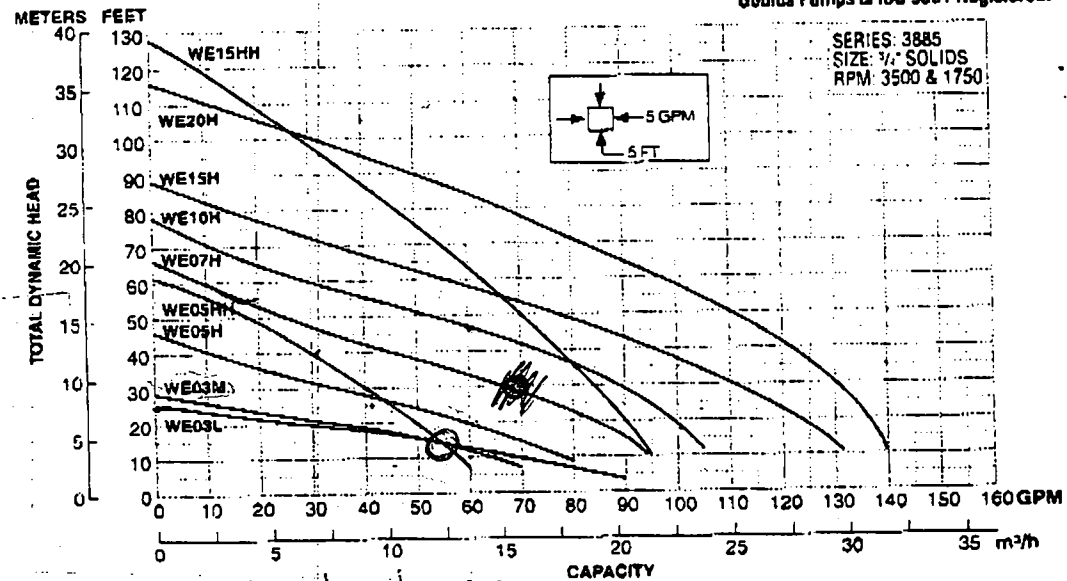
- Consult factory for information on CSA listed models.

**AGENCY LISTINGS**

Canadian Standards Association File #LR38549

Underwriters Laboratories File #83318

Goulds Pumps is ISO 9001 Registered.



L = Low head  
M = Med head.

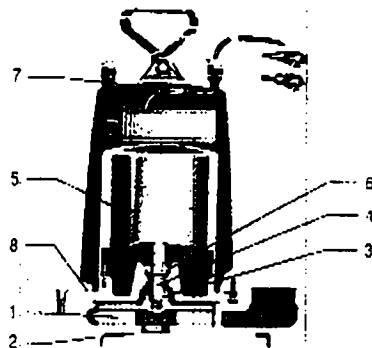
Goulds Pumps



# GOULDS PUMPS

## COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Silicon carbide vs. silicon carbide Mechanical seal
4	Shaft
5	Motor
6	All Ball bearing heavy duty design
7	Power cable
8	O-ring



# Submersible Effluent Pump

MODEL

# 3885

## MODELS

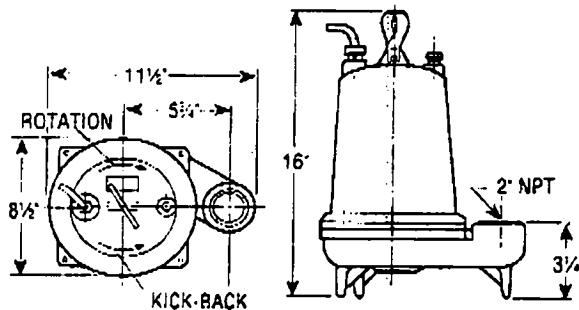
Order No.	HP	Volts*	Phase	Max. Amp.	RPM	Solids	Wt. (lbs.)	Heaters
WE0311L		115		9.8				
WE0318L		200		5.5				
WE0312L		230		4.9				
WE0311M		115		9.8				
WE0318M		200		5.5				
WE0312M		230		4.9				
WE0511H		115		14.5				
WE0518H		200		8.1				
WE0512H		230		7.3				
WE0538H		200		4.1				
WE0532H		230		3.3				
WE0534H		460		1.7				
WE0511HH		115		14.5				
WE0518HH		200		8.1				
WE0512HH		230		7.3				
WE0538HH		200		4.1				
WE0532HH		230		3.6				
WE0534HH		460		1.8				
WE0718H		200		11.0				
WE0712H		230		10.0				
WE0738H		200		6.2				
WE0732H		230		5.4				
WE0734H		460		2.7				
WE1018H		200		14.0				
WE1012H		230		12.5				
WE1038H		200		8.1				
WE1032H		230		7.0				
WE1034H		460		3.3				
WE1518H		200		17.5				
WE1512H		230		15.7				
WE1538H		200		10.6				
WE1532H		230		9.2				
WE1534H		460		4.6				
WE1518HH		200		17.5				
WE1512HH		230		15.7				
WE1538HH		200		10.6				
WE1532HH		230		9.2				
WE1534HH		460		4.6				
WE2012H		230		18.0				
WE2038H		200		12.0				
WE2032H		230		11.6				
WE2034H		460		5.8				

## PERFORMANCE RATINGS (gallons per minute)

Order No.	WE03L	WE03M	WE05H	WE07H	WE10H	WE15H	WE05HH	WE15HH	WE20H
HP	1/4	1/2	3/4	1	1 1/2	2	1/2	1 1/2	2
RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
5	86	-	-	-	-	-	-	-	-
10	70	65	78	94	-	-	56	95	140
15	58	58	70	90	103	128	53	93	138
20	30	35	60	85	98	123	50	90	136
25	5	15	48	76	94	117	45	87	133
30	-	-	35	68	88	111	40	84	130
35	-	-	23	57	82	103	35	82	126
40	-	-	12	45	74	95	30	77	121
45	-	-	-	35	64	86	25	74	116
50	-	-	-	25	53	77	18	70	110
55	-	-	-	17	42	67	12	66	104
60	-	-	-	9	30	56	3	63	97
65	-	-	-	-	20	46	-	58	90
70	-	-	-	-	11	35	-	55	83
75	-	-	-	-	4	25	-	51	75
80	-	-	-	-	-	15	-	47	66
90	-	-	-	-	-	-	-	37	51
100	-	-	-	-	-	-	-	28	30
110	-	-	-	-	-	-	-	17	10
120	-	-	-	-	-	-	-	8	-

## DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)

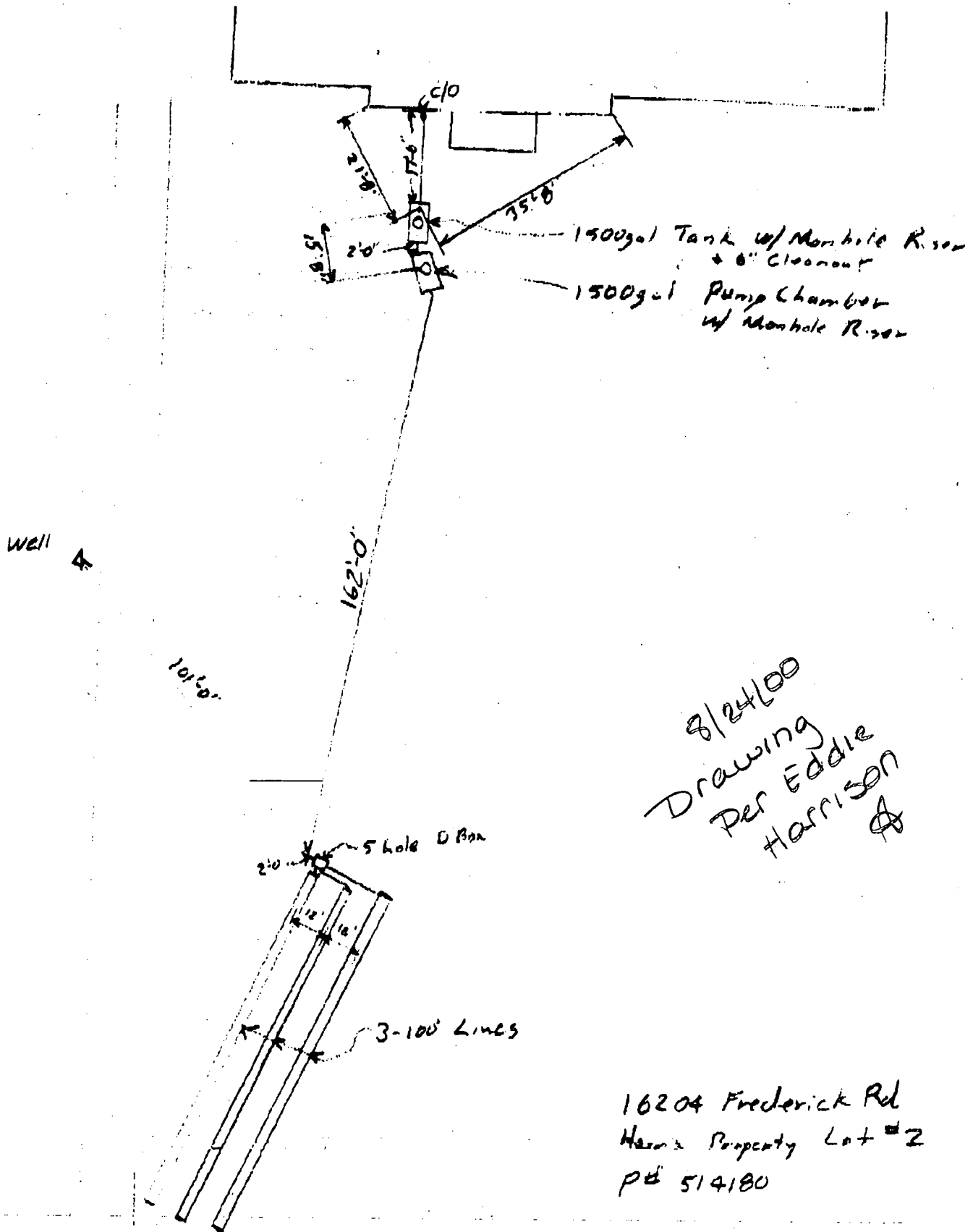


## EFFLUENT EJECTOR SYSTEM

Effluent ejector system offers ease of ordering and installation. A single ordering number specifies a complete system designed for most residential and commercial sump and effluent pump applications.



**Package Includes:**  
 Submersible Effluent Pump WE0311L, 12L or WE0311M, 12M, WE0511HH, 12HH  
 Mechanical Level Control Switch A2-5 (115V), A2-6 (230V)  
 Basin and Cover A7-1830P  
 Check Valve A9-2P  
 Order No.: SWE0311L, SWE0312L, SWE0311M, SWE0312M, SWE0511HH, SWE0512HH.



N/F  
DEWBERRY  
3195/969

S 69°18'03" E 203.33'

PUBLIC 100 YR. FLOODPLAIN,  
DRAINAGE & UTILITY ESMT.

FOREST  
CON. ESMT.

60' BRL

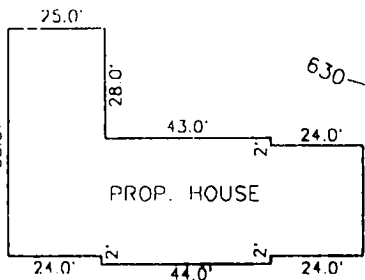
A. PROP HOUSE  
FF=646.0  
BF=637.2  
INV OUT=639.8

B. PROP TANK  
EX EL=642.8  
INV IN=638.8  
INV OUT=638.5

C. PROP PUMP CHAMBER  
EX EL=643.3  
INV IN=638.4±

D. PROP DBOX  
EX EL=645.4  
INV IN=643.7  
INV OUT=643.4

E. PROP TRENCHES  
INV IN=643.4  
INLET 2' BELOW GRADE  
2' DEPTH OF STONE  
4 TRENCHES @ 75'=300'  
(240' REQ'D)  
ACTUAL LENGTH & NUMBER  
OF TRENCHES TO BE  
DETERMINED AT TIME OF  
SEPTIC PERMIT ISSUANCE.



DRAWN TO SCALE  
35 FT. LAYTON  
TRAVEL TRAILER  
VIN#15L900R22G-  
H0016 09

GVWR - 8000 POUNDS

24' PRIVATE USE-  
IN-COMMON ESMT.  
FOR INGRESS, EGRESS  
& MAINTENANCE FOR  
LOTS 1, 2 & 3.

EX. ASPH. ENT.

N 20°41'57" E 638.33'

S 20°41'57" W 638.44'

N 69°16'03" W 203.33'

MD ROUTE 144

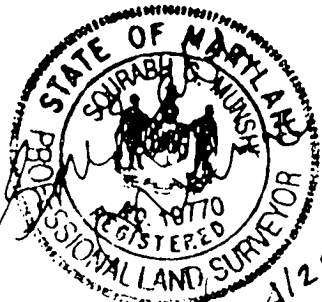
80' R/W

5/1/00  
shown temp.  
construction trailer  
will have no impact  
to ex well/septic - No  
H<sub>2</sub>O service - For  
storage of building  
materials only

PLOT PLAN  
LOT 2

HARRIS PROPERTY

16204 FREDERICK ROAD  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE: 1"=100' APRIL, 2000



4/25/00

D-4427\A0-4427