Co. Open Trench Cancel
1:00 1/24/97 3/18/97 1PM
SAT 2/15/97 11:00

WPI #2 of 1

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

04-315766

P 57646

A 49918A

DISTRICT 4th

DATE 1/22/97

DATE SYSTEM APPROVED 3-12-97

INSPECTOR KM

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
~~XXXXXXXX~~ 313-2640

INDEXED

Arnold Backhoe & Septic Services IS PERMITTED TO INSTALL X ALTER ____

ADDRESS P.O. Box 15 Woodbine, MD 21797 PHONE 795-7873

SUBDIVISION Royal Hollow LOT 1 ROAD 901 Lady Ann Court

PROPERTY OWNER Douglas & Sharon Brown

ADDRESS ____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

240 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 240

BLDG. PERMIT SIGNED AND RETURNED 2-3-97
Serial# B00106603
Check

TRENCHES - Trench to be 2 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 7 feet below original grade. Effective area begins at 3 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Place the distribution box 50 feet from the left (~~16~~) lot line and 100 feet from the front lot line as viewed from Lady Ann Court. Install trenches on contour toward right lot line.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 1/15/97 DKS

PLANS APROVED BY Ronald J. Pinkley/Amy McMillen DATE 07/07/95

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

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

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

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

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

PERMIT VOID AFTER TWO YEARS

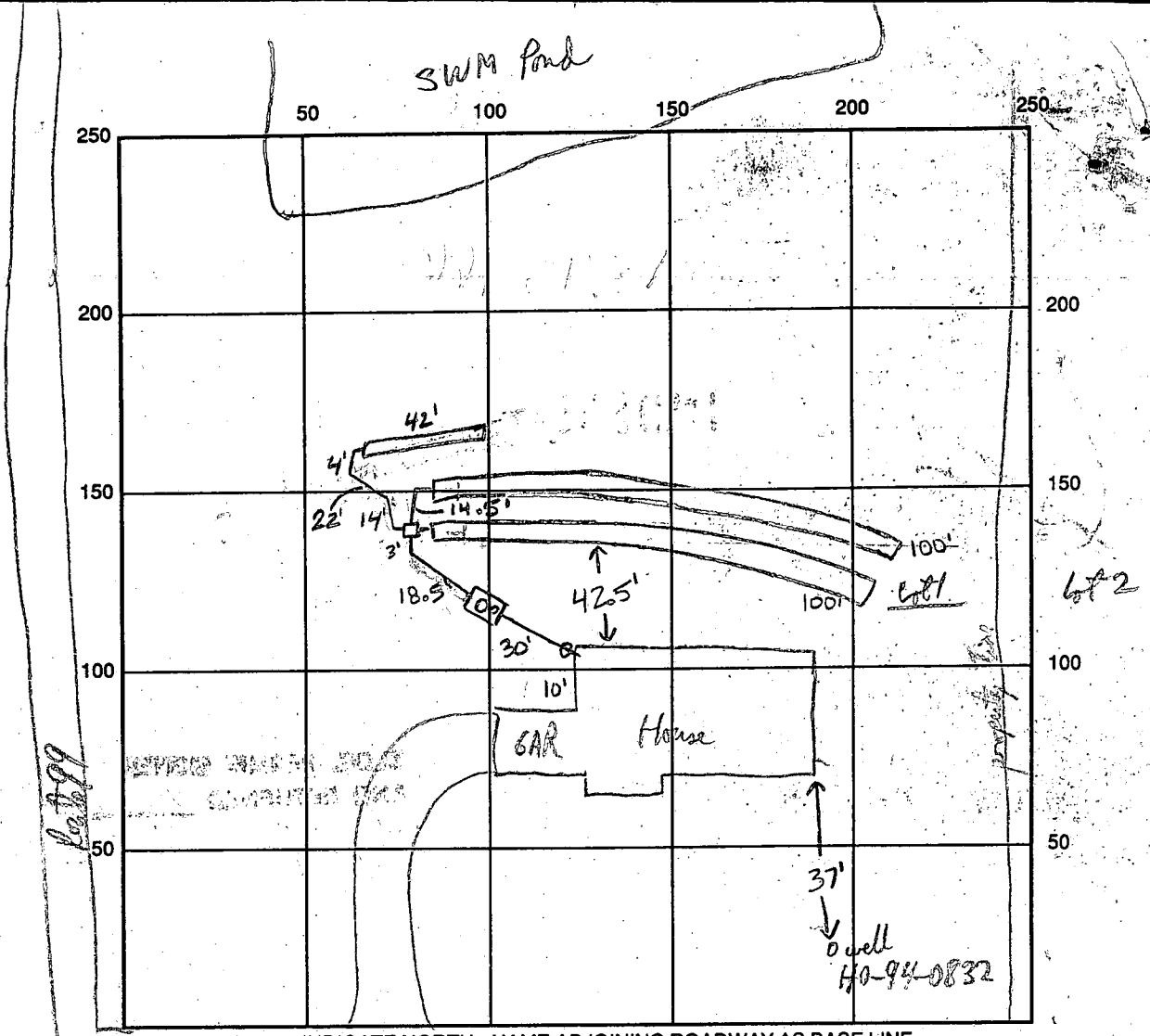
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON. CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**
***CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.**

HD-260(6-90)

A 49918A



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Lady Anne Ct

SEPTIC TANK LEVEL ok, manhole on tank CLEANOUTS 1 at house, 1 on tank

DISTRIBUTION BOX LEVEL ok

DRAIN FIELD/TITLE DEPTH 7 FT. TRENCH WIDTH 2 (2x100) FT. INLET DEPTH 3 FT.

EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH 1x42 FT. → 242

NUMBER OF TRENCHES 3 ONE SIDEWALL/BOTTOM AREA 968 SQ. FT.

DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.

ABSORBENT AREA — SQ. FT.

REMARKS: Invert of septic line exits below Basement Footers (about 5' elevation below that shown on grading BP)

3-11-97 (12:30pm) house connection made, ok to cover first two trenches leave ends open KM

3-12-97 ok to cover all work, make sure cleanout on tank is above grade KM

DATE SYSTEM APPROVED 3-12-97 INSPECTOR Kimberly Maistos

APPLICATION

PERCOLATION TESTING

A 49918-A

P _____

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

DISTRICT _____

DATE 3/10/94

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 ~~MISSLER FARM JOINT VENTURE~~ c/o LDG INC. Douglas & Sharon Brown

ADDRESS LEE PLAZA, SUITE 200 8601 GA. AVE. SILVER SPRING, MD PHONE (301) 585-7000

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION ROYAL HOLLOW LOT NO. 1

ROAD AND DESCRIPTION OLD FREDERICK RD. & WOODBINE RD.
(901 Lady Ann Court)

TAX MAP 7 PARCEL # 84

BLDG. PERMIT SIGNED AND RETURNED 11/1/94
Serial # 614102880
S.F.D. - 4 Bdrm

SIZE OF LOT 1 AC. ± 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. Thos Jones FOR VMA
(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 _____

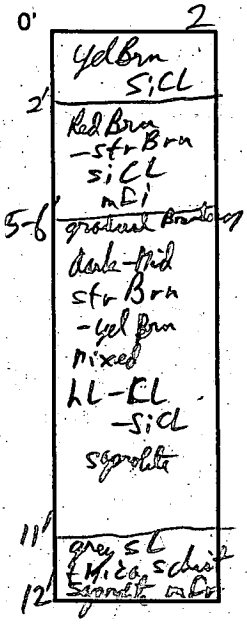
THIS IS NOT A PERMIT

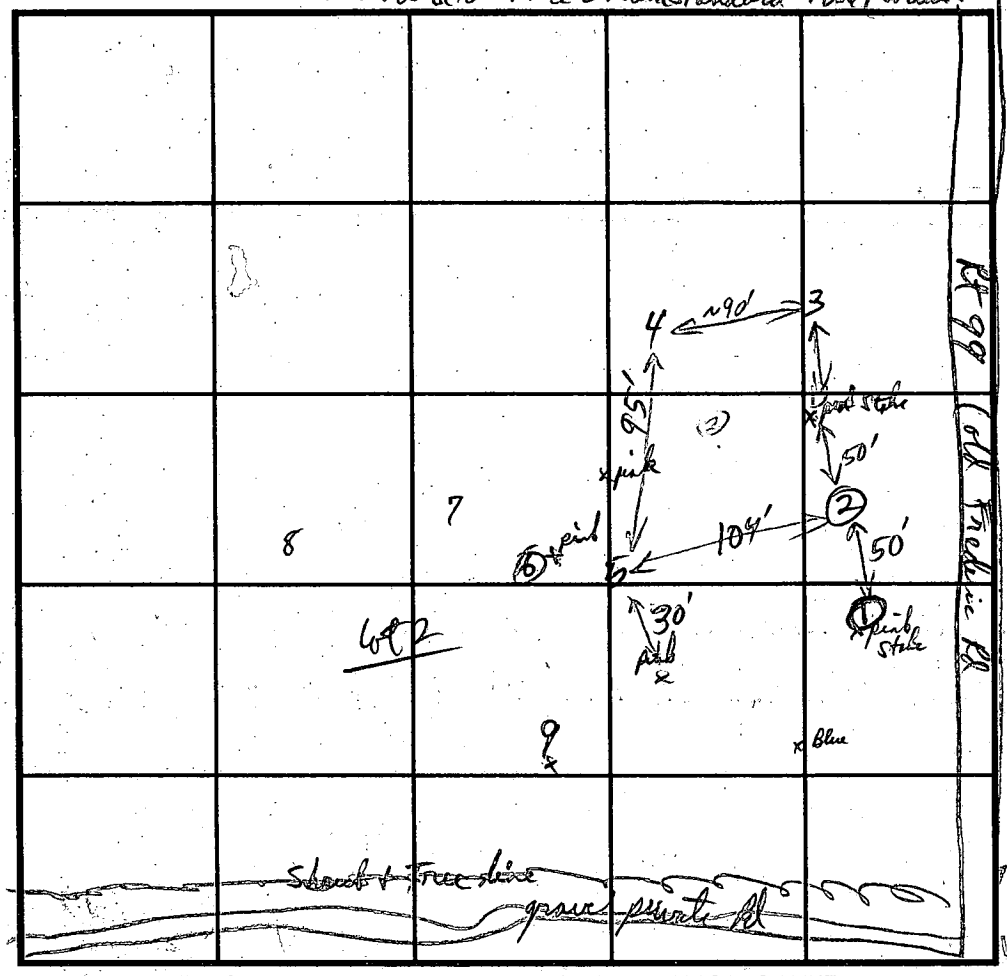
HD-216 (3/92)

lot/ 49918A
COUNTY #

Note all Times are Eastern Standard Time (or dst should be at 1hr faster than these)

SOIL PROFILE





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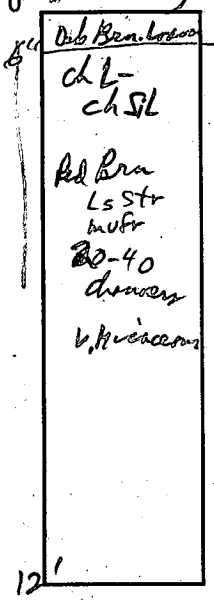
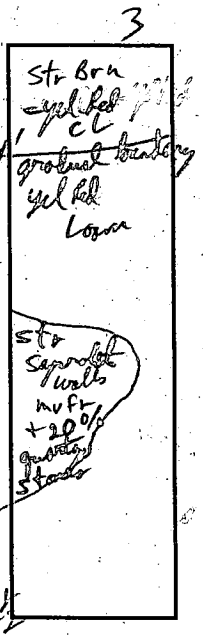
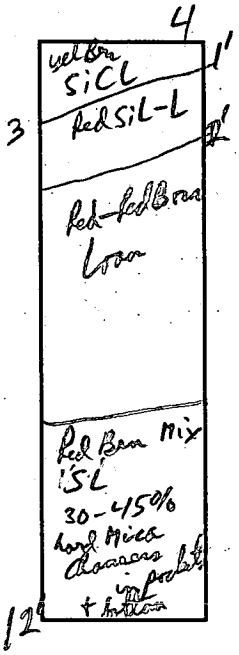


INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.





DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
4-4-94	①		Dug & Closed Rock @ 9' (No Water)				Fail
	②	3½	9:34:20	9:59:00	9:59:00	10:12:00	13 min
		8½ V12	9:33:00	9:59:00	9:59:00	10:09:50	18 min
	③	3½	9:47:00	Missed		10:12:00	13 min
		8½ V12½	9:44:30	9:49:30	9:49:30	10:07:00	17 min
	④	3½	10:05:30	10:11:00	10:11:00	10:15:00	5 min
		8' V12'	10:05:00 0 ft	10:14:00 very dense	10:14:00	10:30:00	16 min
	⑤	3½	10:18:30	10:20:00	10:21:00	10:27:00	2 min
		8' V12	10:19:00	10:31:00	10:31:00	10:56:00	25 min

14
8 115
8
35
32
3

REMARKS

TYPE OF SOIL Glenelg

TESTED BY R/Brantley ALSO PRESENT Dwayne + Bud Arndt

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 15 min TRENCH WIDTH 2

INLET DEPTH 3 MAXIMUM BOTTOM DEPTH 7 SQ. FT/BEDROOM 240

1/31/97 Royal Hollow Lot 1

OBS

Spec's were written assuming Trenches go to Higher part of Septic Field (only 20 ft from House as Built. Outlet pipe at house wall is under Basement Footer (5' + deeper than Approved Plan ⇒ BP, shows)

Need a pump System for High Placement.

If you allow low placement — require the P.C. installation (as usual) and because of Water Table Concerns (Mottled mottles and stone elevation as Shown Pond Enclosed "grey" soils in original Test notes)) I recommend shallow Trench Design (i.e. Bottom @ 5' rather than 7', 2' stone fill, 3' wide Trenches and 320 Lin Ft (vs 240 L.F. shown) of Septic Trench. Bottom line — either option will cost Builder more $.

RJF 1/31/97

C 1 1933 (1 2 3 6) (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

SEQUENCE NO. (MDE USE ONLY)

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 A 499/18A

ST/CO USE ONLY
DATE Received 07/16/96 (8 13)

DATE WELL COMPLETED 07/29/96 (15 20)

Depth of Well 200 (22 26) (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 110-94-0832 (28 29 30 31 32 33 34 35 36 37)

OWNER Lee Development Group
STREET OR RFD (last name) Lazy Acre Court (first name) TOWN Lisbon
SUBDIVISION Rural Row SECTION LOT 1

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 FROM	FEET TO	check if water bearing

NUMBER OF UNSUCCESSFUL WELLS: ____

WELL HYDROFRACTURED yes [Y] (44) no [N] (44)

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
DRILLERS LIC. NO: ____

DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. ____

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

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes [Y] (44) no [N] (44)
TYPE OF GROUTING MATERIAL (Circle one)
CEMENT [C M] (45 46) BENTONITE CLAY [B C] (45 46)
NO. OF BAGS 2 NO. OF POUNDS 220
GALLONS OF WATER ____
DEPTH OF GROUT SEAL (to nearest foot)
from 0 (48 52) ft. to 38 (54 58) ft. TOP BOTTOM
(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below
- [S T] STEEL
- [C O] CONCRETE
- [P L] PLASTIC
- [O T] OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
ST (60 61)	(63 64)	(66 70)

OTHER CASING (if used)
EACH CASING

diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole insert appropriate code below
- [S T] STEEL
- [B R] BRASS BRONZE
- [H O] OPEN HOLE
- [P L] PLASTIC
- [O T] OTHER

C 2 (1 2)

EACH SCREEN

	DEPTH (nearest ft.)	
1	(8 9)	(11 15) (17 21)
2	(23 24)	(26 30) (32 36)
3	(38 39)	(41 45) (47 51)

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

GRAVEL PACK from ____ to ____
IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 (68)

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

C 3 (1 2)

PUMPING TEST
HOURS PUMPED (nearest hour) 3 (8 9)
PUMPING RATE (gal. per min.) 12.0 (11 15)
METHOD USED TO MEASURE PUMPING RATE Bucket
WATER LEVEL (distance from land surface)
BEFORE PUMPING 39 (17 20) ft.
WHEN PUMPING 150 (22 25) ft.

TYPE OF PUMP USED (for test)
- [A] air (27)
- [P] piston (27)
- [T] turbine (27)
- [C] centrifugal (27)
- [R] rotary (27)
- [O] other (describe below) (27)
- [J] jet (27)
- [S] submersible (27)

PUMP INSTALLED
DRILLER WILL INSTALL PUMP (CIRCLE) (YES or NO) YES (NO)

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. (29)
CAPACITY: GALLONS PER MINUTE (to nearest gallon) (31 35)
PUMP HORSE POWER (37 41)
PUMP COLUMN LENGTH (nearest ft.) (43 47)
CASING HEIGHT (circle appropriate box and enter casing height)
- [+] (49) above
- [–] (49) below

LAND SURFACE 2 (50 51) (nearest) foot

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

N

OWNER

Page ____ of ____
Date ____

10:30 7-12-96 Review 7/19/96 OR RLL

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-0832
Location of property (road) Lady Anne Court & Old Frederick Rd
Subdivision Royal Hollow Lot 1 Block ____ Plat ____ Sec. ____
Well Driller G. Easterday Owner Lee Development

Depth of well 200 / 20 GPM
Distance of measuring point (M.P.) above ground 2'
Static water level (S.W.L.) below M.P. 34'

I. High rate pumping -- reservoir drawdown

Time pump started 10:00 Pumping rate 12 GPM
Total time 20 min. to reach pumping water level 56' ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals	WATER LEVEL below M.P.	PUMPING RATE time to fill B/ gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
10:20	56'	5 Seconds	—	12 GPM
10:35	56'	5 Seconds	—	12 GPM
10:50	56'	5 Seconds		12 GPM
11:05	56'	5 Seconds		12 GPM
11:20	56'	5 Seconds	—	12 GPM
11:35	56'	5 Seconds	—	12 GPM
11:50	56'	5 Seconds	—	12 GPM
12:05	56'	5 Seconds	—	12 GPM
12:20	56'	5 Seconds	—	12 GPM
12:35	56'	5 Seconds	—	12 GPM
12:50	56'	5 Seconds	—	12 GPM
1:05	56'	5 Seconds	—	12 GPM
1:20	56'	5 Seconds	—	12 GPM

HD-224

3/12/97
WTP I, ok to cover well line
P.I. No 4.5' below grade
casing 2.5' above grade
2 piece watertight cap will be installed
KM

HOWARD COUNTY HEALTH DEPARTMENT
Bureau of Environmental Health
3525-H Ellicott Mills Drive
Ellicott City, MD 21043
461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation ✓
Replacement ____

Receipt # ____
Date 1-28-97

Name of Installer Cavanaugh Plumbing Inc. Telephone (301) 795-1715

License Number MD 23765
Certified Well Pump Installer ____ Well Driller ____ Registered Plumber ✓

Name of Property Owner Douglas Brown Telephone (410) 379-5639
Subdivision ROYAL Hollow Lot # 1 Well Tag # HO-84-0832
Site Address 901 LADY ANNE CT. WOODBINE

Pump
1. Type
   a. Deep well jet ____
   b. Shallow well jet ____
   c. Submersible ✓
2. Make JACUZZI
3. Model # ____
4. Capacity 5 GPM
5. Pump exceeds well capacity Yes ____ No ✓
6. If Yes, is low pressure cutoff switch installed? Yes ____ No ____
7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors ✓ Cable guards ✓ Other TAPE

Motor
1. Horsepower 1/2
2. RPM ____
3. Voltage ____
   a. 110 ____
   b. 220 ✓

Pitless Adapter
1. Make HARVARD
2. Model # PI 800
3. Depth 4 Ft.

Tank
1. Capacity 10
2. Pressure relief valve? yes

Piping
1. Type YARDLEY
2. Size 1"
3. NSF and/or BOCA Code approved ✓
4. Depth of supply line 4 ft.

Well data
1. Depth 200 ft.
2. Yield 12 GPM
3. Static water level 70 ft.
4. Will water supply be disinfected by installer? yes

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

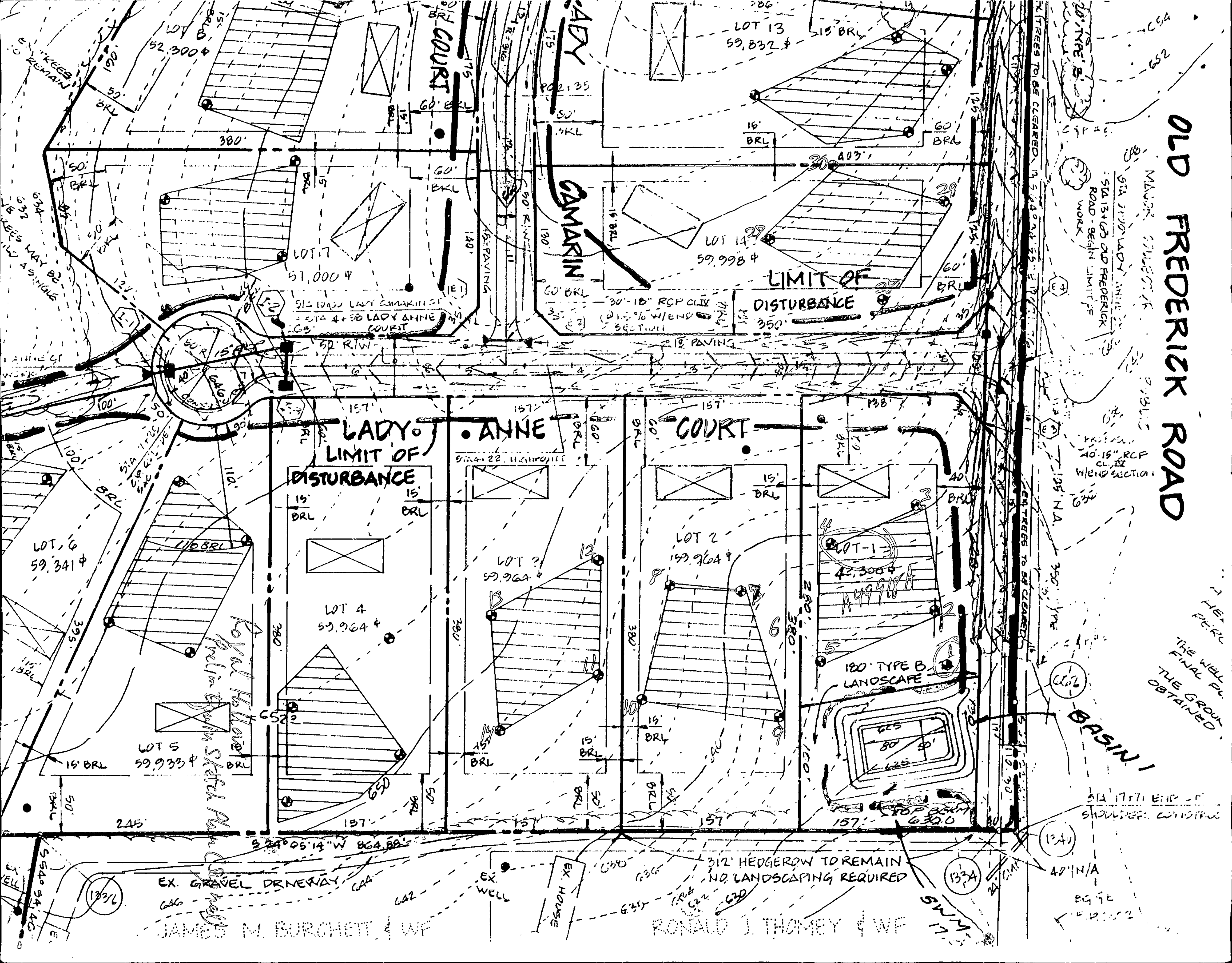
All information given above is true to the best of my knowledge.

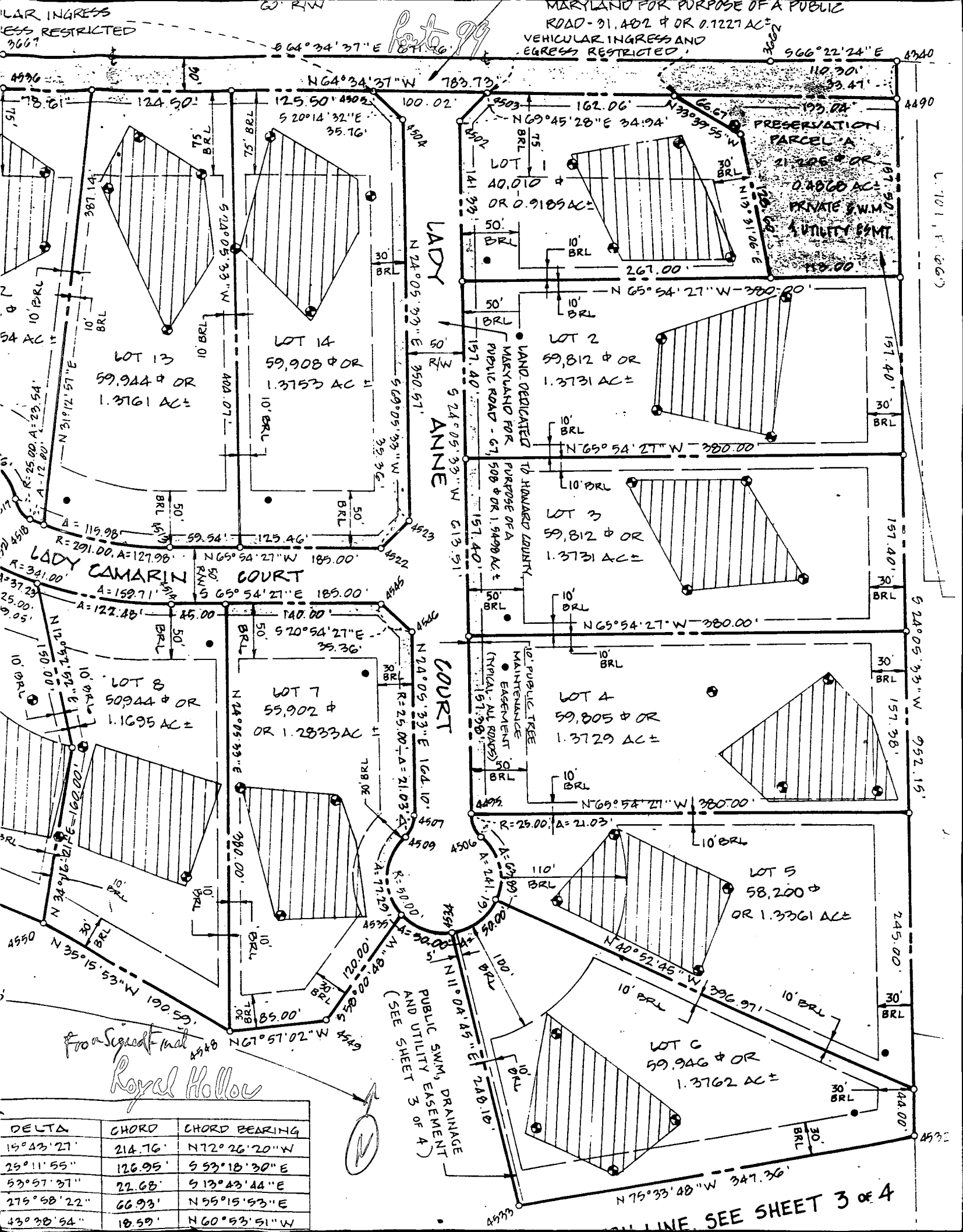
Signature of Applicant: Kevin Cavanaugh

Date: 1/28/97

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

HD-215


OLD FREDERICK ROAD
LADY ANNE COURT
LADY GAMARIN
LIMIT OF DISTURBANCE
LOT 13
59,832 ¢
LOT 14
59,998 ¢
LOT 7
51,000 ¢
LOT 8
52,300 ¢
LOT 6
59,341 ¢
LOT 5
59,933 ¢
LOT 4
59,964 ¢
LOT 3
59,964 ¢
LOT 2
59,964 ¢
LOT-1
180' TYPE B
LANDSCAPE
BASIN 1
SWM
312' HEDGEROW TO REMAIN
NO LANDSCAPING REQUIRED
EX. GRAVEL DRIVEWAY
EX. WELL
EX. HOUSE
JAMES M. BURCHETT & WF
RONALD J. THOMEY & WF
S 74°05'14" W 864.88'
50' R/W
18' PAVING
EX. TREES TO BE CLEARED
30"-18" RCP CL IV
15% W/END SECTION
15' BRL
60' BRL
Royal Hollow
Prelim Sketch Plan



DELTA	CHORD	CHORD BEARING
15°43'27"	214.76'	N 72°26'20"W
29°11'55"	126.95'	S 53°18'30"E
53°57'37"	22.68'	S 13°43'44"E
275°58'22"	66.93'	N 55°15'53"E
43°38'54"	18.59'	N 60°53'51"W

Date 2/28/97

Number of pages including cover sheet 2

TO: HAL MARTER

ROYAL HOLLOW

LOT 1

Phone / Fax phone 301 776-0180

FROM:

LDE Inc
9250 Rumsey Road
Suite 105
Columbia, MD 21045

Phone 410-715-1070
Fax Phone 410-715-9540

CC: ARNOLD SEPTIC / KENNY 410 795 0087

HO. CO. HEALTH DEPT. / RON PINKLEY 313 2648

REMARKS: ☐ Urgent ☒ For your review ☐ Reply ASAP ☐ Please Comment

HAL I'VE REVIEWED THE SEPTIC SITUATION @ ROYAL HOLLOW. IT APPEARS THAT SHIFTING THE BOX DOWNHILL TO PICK UP 10"-12" OF FALL WILL STILL PROVIDE GRAVITY SERVICE. THERE ALSO LOOKS LIKE OVER TWO FUTURE SYSTEMS COULD BE INSTALLED WITHIN THE AVAILABLE SEPTIC EASEMENT AREA. PLEASE REVIEW AND GET BACK TO ME.

BRUCE BURTON

Message relayed by T.C. to Bruce Butler

Revised plan appears acceptable with revision

① 1st Repair Trench to be 10' from old 40' long trench, make up extra length in other 2 trenches. 100

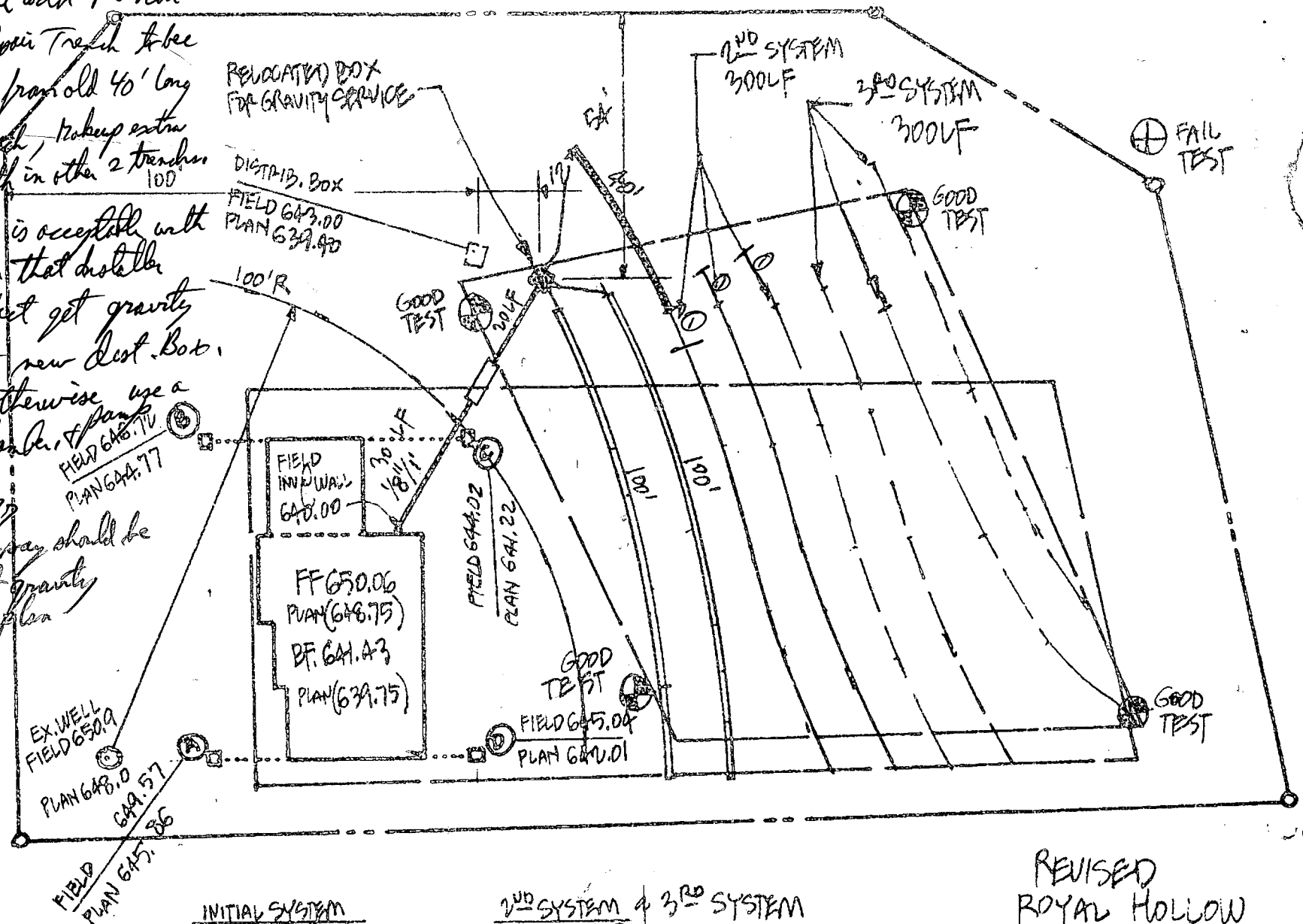
② Plan is acceptable with provision that installer can in fact get gravity flow to new Dist. Box. site — otherwise use a pump chamber & pump

JJP 3/3/97

Arnold's spray should be able to get gravity per New plan

INV. @ WALL 640.00
TANK IN 639.69
OUT 639.39

BOX IN 639.18
TOP 648.18



INITIAL SYSTEM
INSTALL 2-100' TRENCHES AND 1-40' TRENCH

2ND SYSTEM & 3RD SYSTEM
ENOUGH AREA EXISTS TO INSTALL 300 L.F. TRENCH

REVISED
ROYAL HOLLOW
LOT #1
2/28/97

Feb-28-97 11:49A LDE Inc. 410-715-9540 P.02

HOWARD SOIL CONSERVATION DISTRICT

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed

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

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

1) PREFERRED -- Apply 2 tons per acres dolomitic limestone (92 lbs/1000sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 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/1000sq. ft.)

2) ACCEPTABLE -- Apply 2 tons per acres dolomitic limestone (92 lbs/1000sq. 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.

SEEDING -- For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000sq ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs per acre (1.4 lbs/1000sq ft.) of Kentucky 31 Tall Fescue and 2 lbs. per acre (.05 lbs/1000sq ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) -- 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.per acre Kentucky 31 Tall Fescue and mulch 2 tons / acre well anchored straw.

MULCHING -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000sq. 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 cover is needed.

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

SOIL AMENDMENTS: -- Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000sq. ft.).

SEEDING -- For periods March 1 thru April 30, and from August 15 thru October 15 seed with 2-12 bushels per acre of annual rye (32 lbs/1000sq ft.). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

MULCHING -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. ft.) of unrotted weed free small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000sq ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000sq ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.

HOWARD SOIL CONSERVATION DISTRICT

STANDARD SEDIMENT CONTROL NOTES

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. (313-1855).
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 resisturbance, permanent or temporary stabilization shall be completed within: a) 7 calender 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 7, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (Section C) for permanent seeding, sod, temporary seeding, and mulching. Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper permanent 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.
7. Site Analysis:

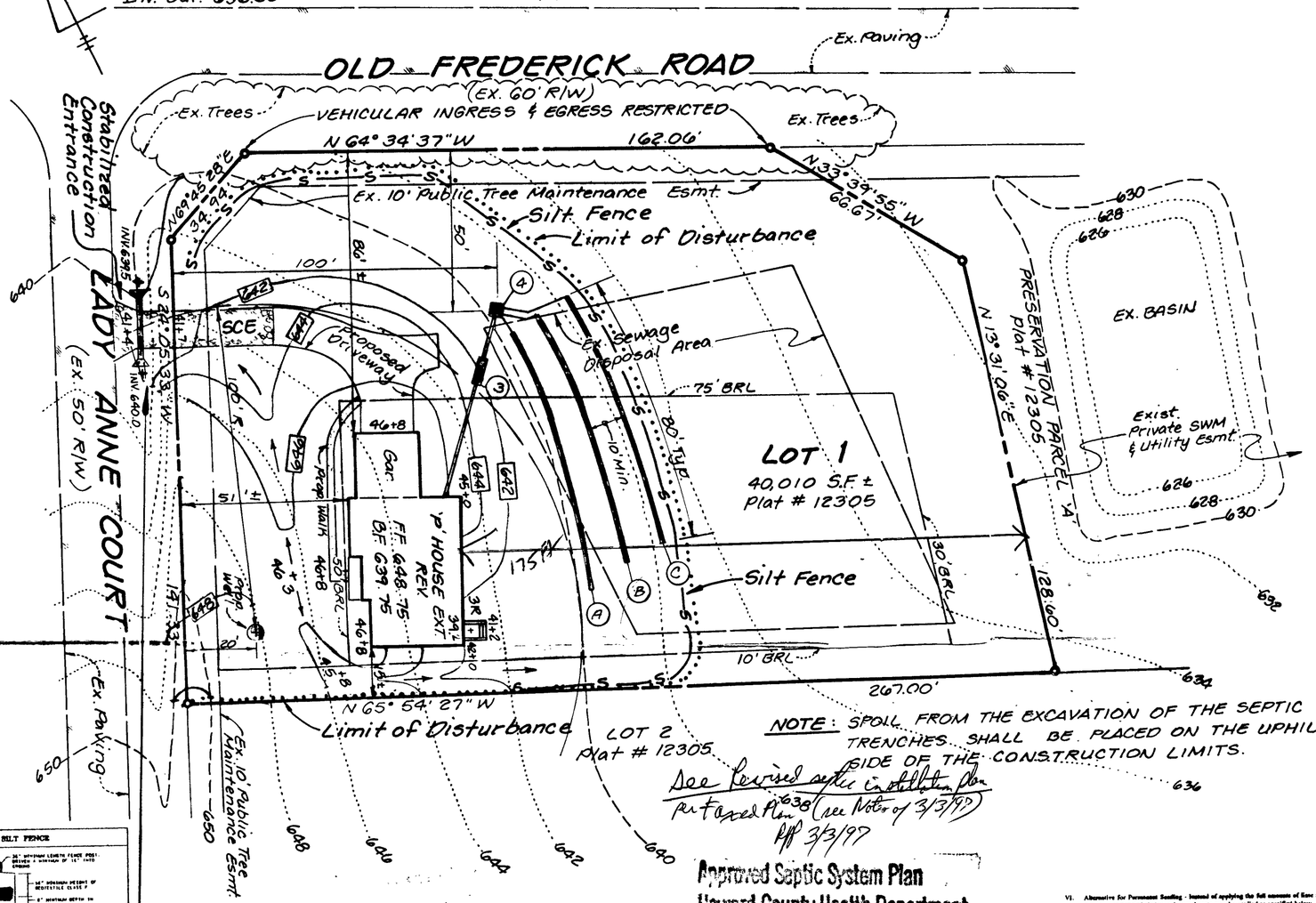
Total Area of Site	0.9185	Acres
Area Disturbed	0.50	Acres
Area to be roofed or paved	0.07	Acres
Area to be vegetatively stabilized	0.43	Acres
Total Cut	165	Cu. Yds.
Total Fill	165	Cu. Yds.
Offsite waste/borrow area location	N/A	

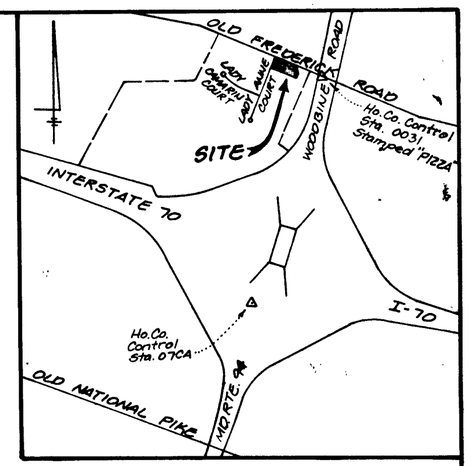
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
9. On all sites with disturbed areas in 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.
10. Trenches for the construction of utilities is limited to three pipe lengths or that which can be pipe filled and stabilized within one working day, whichever is shorter.

SEPTIC SYSTEM DESIGN:

1. 4 Bedrooms
2. Inv. @ Wall: 637.25
3. 1250 Gallon Septic Tank (Provide Manhole To Grade)
   Ex. Grade @ Tank: 641.20
   Fin. Grade @ Tank: 642.00
   Inv. In: 636.90
   Inv. Out: 636.60
4. Distribution Box:
   Ex. Grade @ Box: 639.40
   Fin. Grade @ Box: 639.40
   Inv. In: 636.40
   (Provide 3 Min. Outlets)
5. Trench Design: 240 SF/BR
   4 BR x 240 SF = 960 SF
   Provide (3) 80 Lf Trenches

	A	B	C
Ex. ground @ trench:	639.30	638.70	637.60
Fin. grade:	639.30	638.70	637.60
Invert:	636.30	635.70	634.60
Bottom El:	632.30	631.70	630.60
Trench Width:	2'-0"	2'-0"	2'-0"
Trench Length:	80'	80'	80'

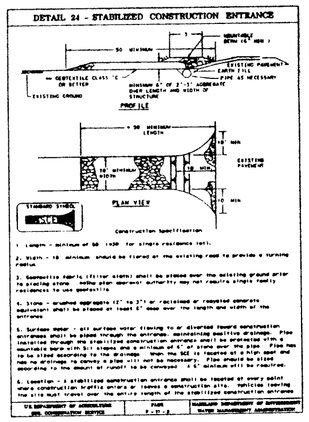




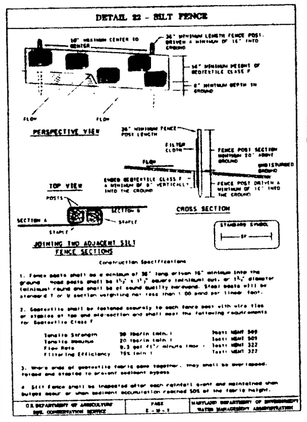
VICINITY MAP

Scale: 1" = 1200'

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



DETAIL 22 - SILT FENCE



CONSTRUCT RESIDENTIAL DRIVEWAY ENTRANCE (STD. DETAIL R G.06) PROVIDE 15" CMP OR 11" x 18" CMP ARCH
AREA = 0.15 Ac.± Tc = 5.0 Min.
C = 0.50 (42% Imp.) I = 8.5 Q10 = 1.0 CFS

CONSTRUCTION SEQUENCE:

1. OBTAIN GRADING PERMIT. (1 day)
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE. (1 day)
3. INSTALL SILT FENCE. (1 day)
4. CLEAR AND GRUB SITE TO SUBGRADE. (1 day)
5. EXCAVATE FOR HOUSE FOUNDATION AND BEGIN HOUSE CONSTRUCTION. (60 days)
6. INSTALL SEPTIC SYSTEM. (1 day)
7. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT CONTROL DEVICES SHOWN ON THIS PLAN AFTER EACH RAINFALL AND ON A DAILY BASIS.
8. REMOVE SEDIMENT FROM LADY ANNE COURT AND DRESS STABILIZED CONSTRUCTION ENTRANCE AS REQUIRED (daily)
9. FINE GRADE SITE AND STABILIZE WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH. (1 day)

TOTAL TIME: 66 DAYS

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.

DATE

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Brian D Burton — 10/18/96

SIGNATURE OF ENGINEER — DATE

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

10/8/96

SIGNATURE OF DEVELOPER — DATE

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 on 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 requirements.

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 be added to meet the requirements prior to use

c Composted sludge shall be applied at a rate of 1 ton/1,000 square feet

ii Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate

References: Guideline Specifications, Soil Preparation and Seeding; MD-VA. Pub #1, Cooperative Extention Service, University of Maryland and Virginia Polytechnic Institutes Revised 1973

V. Topsoil Application

i When topsoiling, maintain seeded erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.

ii Grades on the areas to be topsoiled, which have been previously established, shall be maintained, almost 4" - 8" higher in elevation

iii Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a maximum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil 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

iv 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

Per Bruce Burton, this is the accurate BP plan 1/15/97 DKS

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DES.: BDB	GRADING and SEDIMENT CONTROL PLAN	SCALE: 1" = 30'
DRAWN: KBW	ROYAL HOLLOW LOT No. 1	SHEET No. 1 OF 1
CHECKED: BDB	TAX MAP No. 7, 4th ELECTION DISTRICT; P/O PARCEL No. 84, HOWARD COUNTY, MD.	JOB No. 96-068
DATE: Oct. 1996	Previous Submittals: SP 94-05, F95-145	FILE No.
	DEVELOPER: HAL C. MARKER CO. 10524 Hunters Way, Laurel, MD 20723 (301) 776-8228	

Property known as: LOT 1 ROYAL HOLLOW PLAT #12305, LOTS 1-14 AND PRESERVATION PARCELS A & B 4th ELECTION DISTRICT, HOWARD COUNTY, MD.

THIS PLAT CAN NOT BE USED TO ESTABLISH PROPERTY LINES OR CORNERS.

7-3-97
owner informed that future deck is in possible conflict with septic (KM)

N13°31'06"E 128.60'

N33°39'55"W 66.67'

30' BRL

10' BRL

75' BRL

LOT 1
40,010 ±

267.00'

S65°54'27E

N64°34'37"W 162.06'

OLD FREDERICK ROAD MD. RT #144
EX 60' ROFW

VEHICULAR INGRESS & EGRESS RESTRICTED

7-3-97
Future deck in conflict with septic. Proposed deck OK as shown, no impact on well & septic. (KM)

SEPTIC

WELL

B.W.C. 2ND FLOOR

CONCRETE AREAWAY

2 STORY BRICK & FRAME W/BASEMENT

GAR.

CONCRETE STOOP

MAC. DRIVEWAY

PUBLIC

N69°45'28E 34.94'

10' TREE MAINTENANCE EASMENT

S 24°05'33"W 141.33'

LADY ANNE COURT
EX 50' ROFW

FINAL 4-24-97

FIRST FLOOR