

4/27/98
H.00
5-18-98
(open trench)
11:00

Tax# 04350672

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 59292

A 40332

DISTRICT 4th

DATE 1-2-98

DATE SYSTEM APPROVED 5/18/98

INSPECTOR AM

INDEXED

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
~~XX401-9933~~ 410-313-2640

Arnold Backhoe & Septic Services IS PERMITTED TO INSTALL ALTER

ADDRESS P. O. Box 15, Woodbine, Maryland 21797 PHONE 410-795-7873

SUBDIVISION A. Adams/M. Harless LOT 1 ROAD 1600 Woodbine Road

PROPERTY OWNER Judith Giangrandi

ADDRESS _____

SEPTIC TANK CAPACITY 1250 ~~1000~~ GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 135 ~~180~~

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 - From the junction of the 627.88' and 903.60' lot lines, place the distribution box 400 feet down the 903.60' lot line and 220 feet off that same lot line. Run trenches on contour towards the 2071.58' 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 JJ 12/10/97*

5/4/98 Specs revised for a 4 bedroom house ALM

PLANS APPROVED BY Glen Savage DATE 12/02/97

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

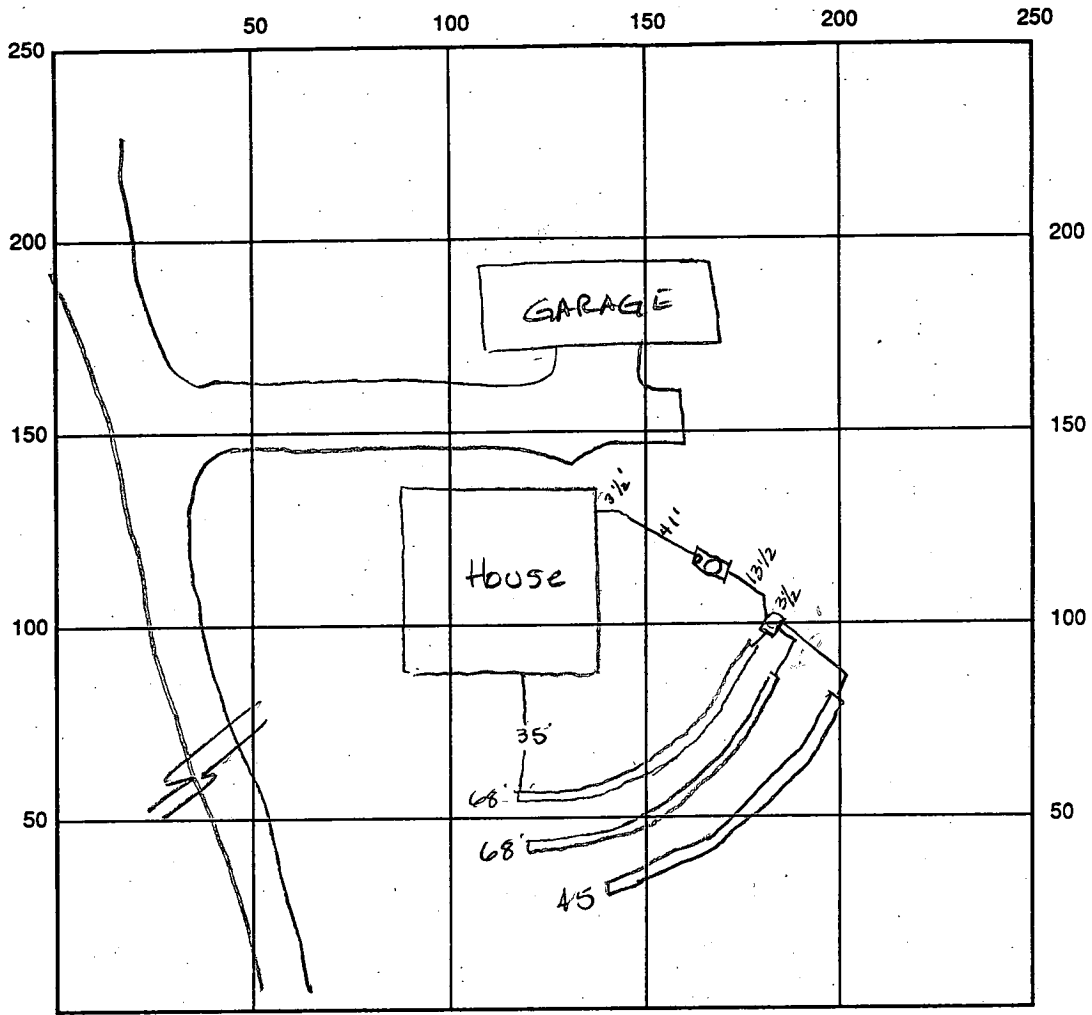
PERMIT VOID AFTER TWO YEARS

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**

A 40332



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL manhole c.o. CLEANOUTS 1250 gal
 DISTRIBUTION BOX LEVEL OK
 DRAIN FIELD/TITLE DEPTH 7.0 FT. TRENCH WIDTH 2.0 FT. INLET DEPTH 3.0 FT.
 EFFECTIVE GRAVEL DEPTH 4.0 FT. TOTAL LENGTH 181 FT.
 NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA 724 SQ. FT.
 DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET 4.0 FT.
 ABSORBENT AREA — SQ. FT.

136
 45
 181
 3
 181
 724

REMARKS: 4/27/98 OK to cover trenches - if no inspection by 4:00 -
cover tank & distribution box and send diagram w/ appropriate
measurements. House may have moved - final approval contingent
upon as built provided by builder At 5/14/98 Owner requested upgrade
to a 4 bdrm system - OK to upgrade At 5/18/98 1250 gal tank installed &
45 linear ft of trench added Au

DATE SYSTEM APPROVED 5/18/98 INSPECTOR A.M. McLean

APPLICATION

PERCOLATION TESTING

A 40332

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE. 461-9933

DISTRICT 47H

DATE 10-22-87

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER COLUMBIA HOMES

ADDRESS SLITE 201 10451 TWIN RIVERS RD PHONE 730-5544
COLUMBIA MD. 21044

PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION PENDLETON FARM LOT NO. 15 PLOT A Prelim.

ROAD AND DESCRIPTION _____

TAX MAP 7 PARCEL # 83

SIZE OF LOT 3.00 AC. TYPE BLDG 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.

James Hanna
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 11/2/87 PERC SATISFACTORY - HOLD FOR SUBDIVISION P.L.M.F. SAT

HD-216

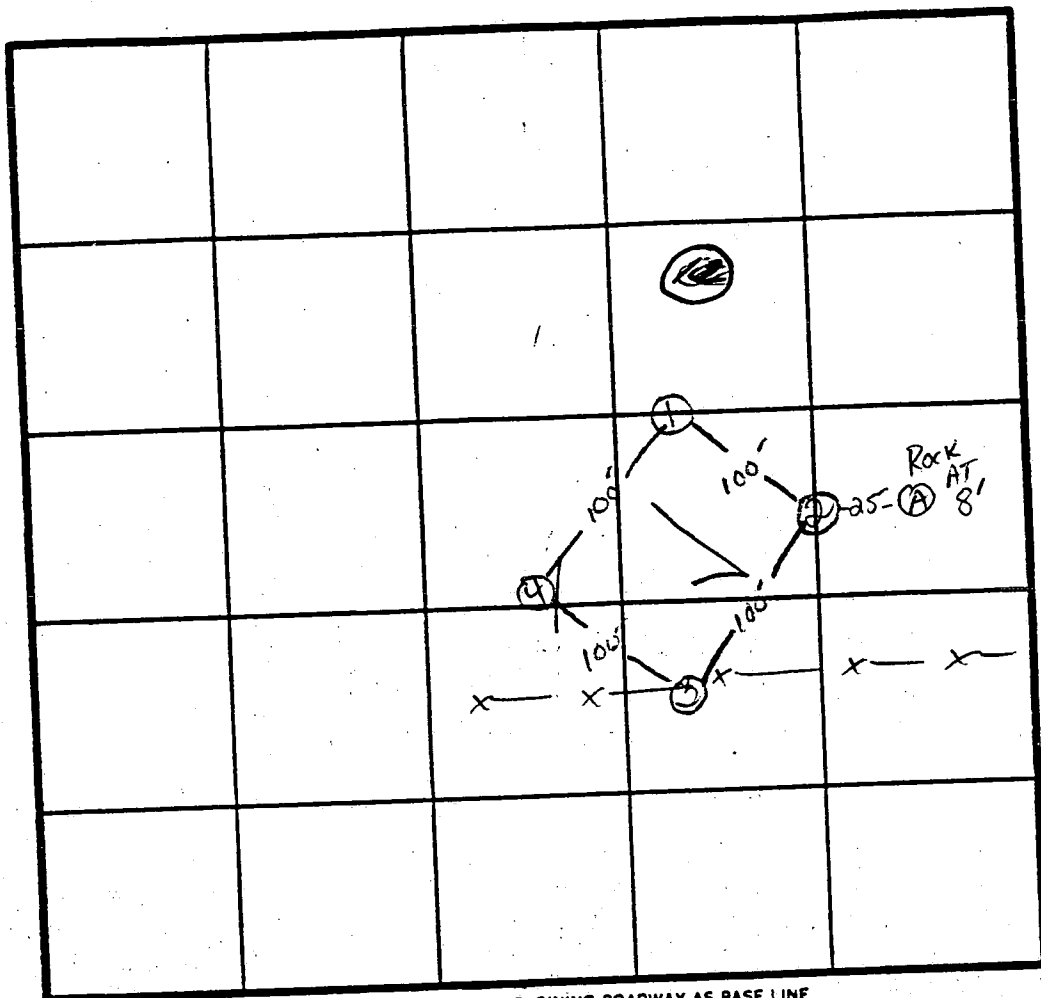
THIS IS NOT A PERMIT

SOIL PROFILE

4" 0
 2.5'-3.5'
 12" 1

A-3
 Yellow BL
 Silty CLAY
 LOAM
 10-15%
 FRAGS

Yellow BL
 Silty CLAY
 LOAM
 15-25%
 Shaly
 FRAGS



x Perc
 5 min
 180 #/BR
 Inlet 3'
 Bottom 5'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

RE 94

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11/12/87	1 S V	3.5- 12"	2:30	2:33	2:33	2:40	7 MIN
	2 S V	3.0 11' HAND BOTTOM	2:33	2:34	2:34	2:38	4 MIN
	3 S V	3.5- 11.5"	2:49	2:51	2:51	2:56	5 MIN
	4 S M	3 7	2:41	2:43	2:43	2:48	5 MIN
	4 V	12' UNIFORM SOIL BELOW	2:41	2:43	2:43	2:47	4 MIN

REMARKS Holes 1, 2, 4 Per PLAN. Hole 3 10' OFF DUE TO FENCE, SHADY SYST

TYPE OF SOIL MAJOR LOAM -> M+ silty

TESTED BY S. ALD

ALSO PRESENT ROCKY / SKIP

C1 097.00 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

COUNTY NUMBER 13-A40332

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED 11 20 97 Depth of Well 300'

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-1320

OWNER Giannardi Judith STREET OR RFD Route 94 (Florence Rd) TOWN Lisbon SUBDIVISION Adams & H. Feeless Property SECTION LOT 1

WELL LOG Not required for driven wells

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

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows: Brown Shale (0-96), Blue Rock (96-300)

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) NO (N) TYPE OF GROUTING MATERIAL (C) MENTONITE CLAY (B) C NO. OF BAGS 35 NO. OF POUNDS 3290 GALLONS OF WATER 210 DEPTH OF GROUT SEAL 90'

CASING RECORD (S) T (C) O (P) L (O) T STEEL CONCRETE PLASTIC OTHER

MAIN CASING TYPE (S) T Nominal diameter top (main) casing 6" Total depth of main casing 100'

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD (S) T (B) R (H) O (P) L (O) T STEEL BRASS OPEN HOLE PLASTIC OTHER

DEPTH (nearest ft.) 98 300

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED (Y) (N)

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

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. MS D O 2 4 DRILLERS SIGNATURE Joseph M. Maigne

LIC. NO. M D

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

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

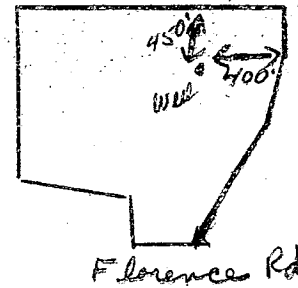
PUMPING TEST

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 41 ft. WHEN PUMPING 222 ft. TYPE OF PUMP USED (for test) (S) submersible

PUMP INSTALLED

DRILLER WILL INSTALL PUMP (YES) (NO) TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 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) (+) above () below LAND SURFACE 2 (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)



B 1 8086 SEQUENCE NO. (MDE USE ONLY)
1 2 3 6
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

STATE OF MARYLAND
PERMIT TO DRILL WELL
please print or type

STATE PERMIT NUMBER
H0-94-1320
70 fill in this form completely 79

Date Received (APA) 10/24/97
OWNER INFORMATION
8 MM DD YY 13
GIANGRANDI Judith
15 Last Name Owner First Name 34
2886 Rosemary Drive
36 Street or RFD 55
Ellcott City Md 21043
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
Howard
8 COUNTY 21
E. Adams and M. Harless Property
23 SUBDIVISION 42
SECTION 44 46 LOT 1 48 50
Lisbon
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) 1 M 73 76 77 78

DRILLER INFORMATION
Joseph E. Meyer MS D24
Driller's Name 76 License No. 81
Joseph E. Meyer Well Drilling
Firm Name
5512 Ridge Rd. Mt. Airy Md. 21771
Address
Joseph E. Meyer 10/23/97
Signature Date

B 4
1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NEAR WHAT ROAD MD 94 Florence Rd. 11 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
34 3/10 37 DISTANCE FROM ROAD Mi
ENTER FT. OR MI 38 39
TAX MAP: 7 BLK: PARCEL 215

B 2 WELL INFORMATION
1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 5
8 12
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard 13-A 40332
COUNTY NAME COUNTY NO.
STATE SIGNATURE _____ INSERT S → 41
DATE ISSUED 11/6/97 Joseph Meyer 11/6/98
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 547 0 0 0 EAST GRID 0976 0 0 0
50 55 57 63

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

APPROXIMATE DEPTH OF WELL 300 FEET
24 28
APPROXIMATE DIAMETER OF WELL 6 INCH
NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
SOURCES OF DRILLING WATER
1. WELL
2.
3.
WRITE THE BOX NUMBER FROM THE MAP HERE
E 7726
N 547
DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION.

METHOD OF DRILLING (circle one)
BORED (or Augered) JETTED Jetted & DRIVEN
30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)
37 CABLE REVerse-ROTary Drive-POINT
other _____

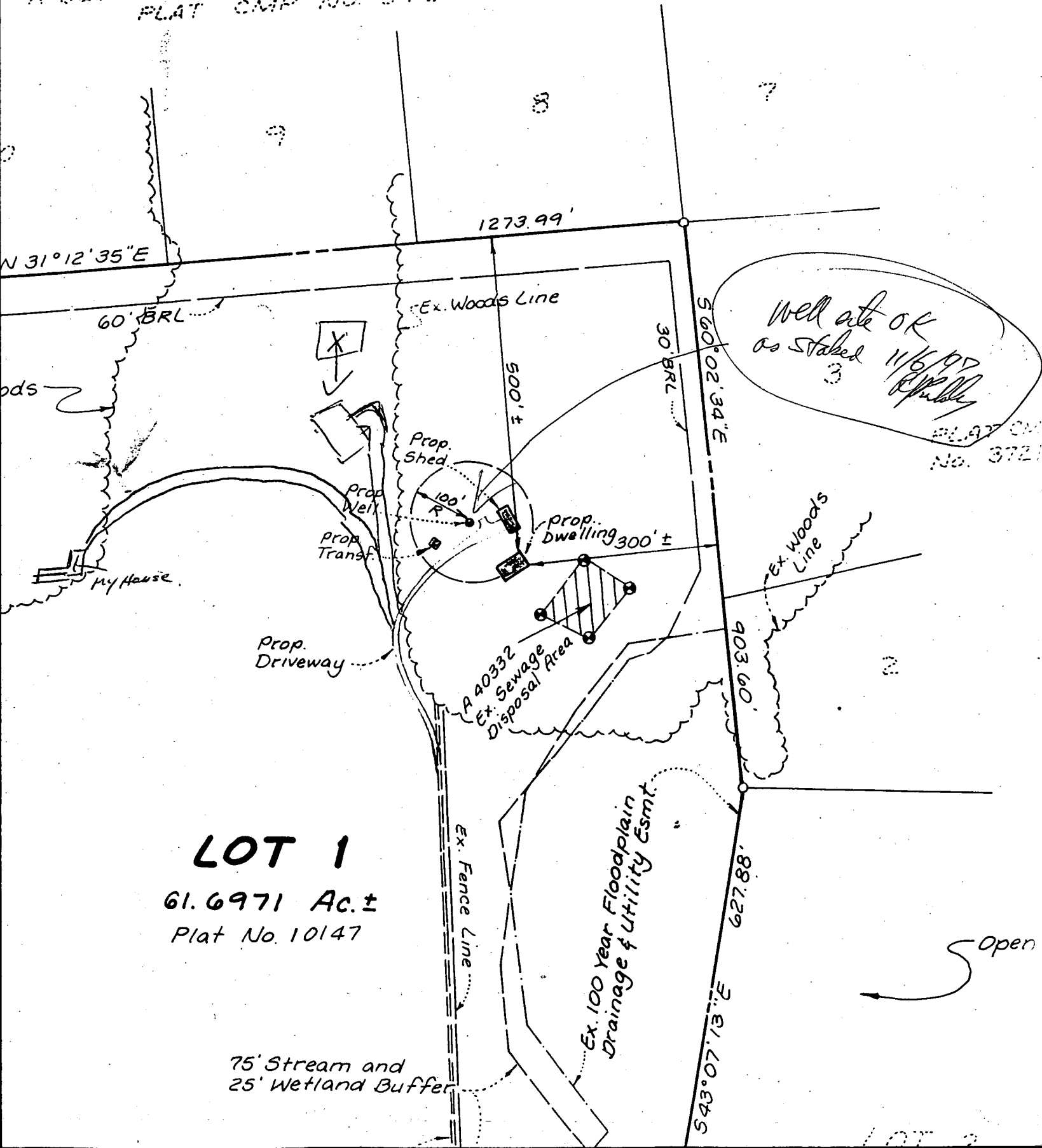
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)
 THIS WELL WILL NOT REPLACE AN EXISTING WELL
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
39 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
 THIS WELL WILL DEEPEM AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
APPROP. PERMIT NUMBER 54 GAP 63
FORCE RP WRITE INITIALS IN BOX PERMIT No. H0-94-1320
67 68 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS
NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

owner brought in
copy 10/31/97

"A SUBDIVISION PLAT OF STANLEY MILLER"
PLAT CMP No. 3721



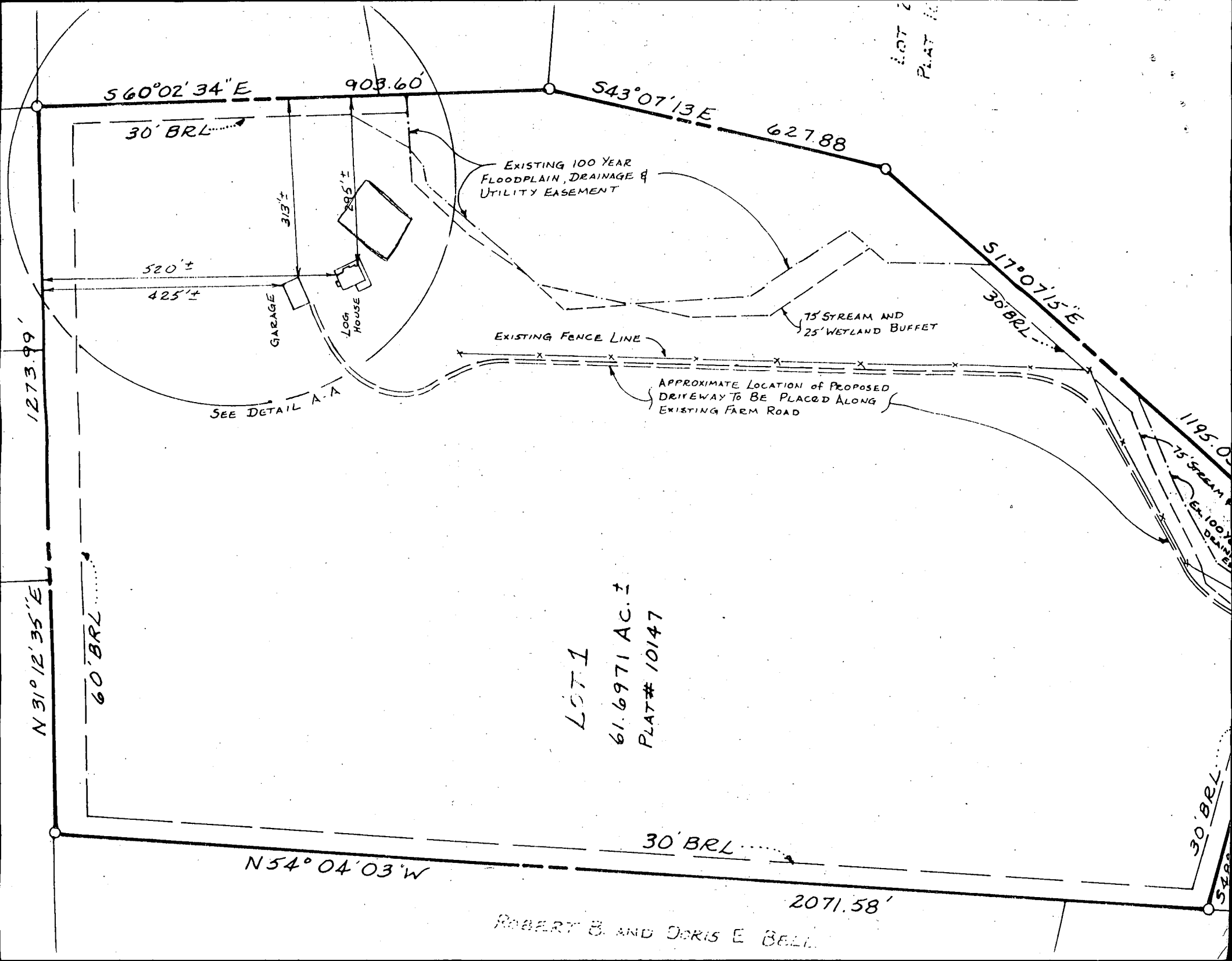
LOT 1
61.6971 Ac. ±
Plat No. 10147

Well site OK
as Staked 11/6/07
R. Kelly
PLAT CMP
No. 3721

Open

75' Stream and
25' Wetland Buffer





Ex. 100 Year Floodplain
Drainage & Utility Esmt.

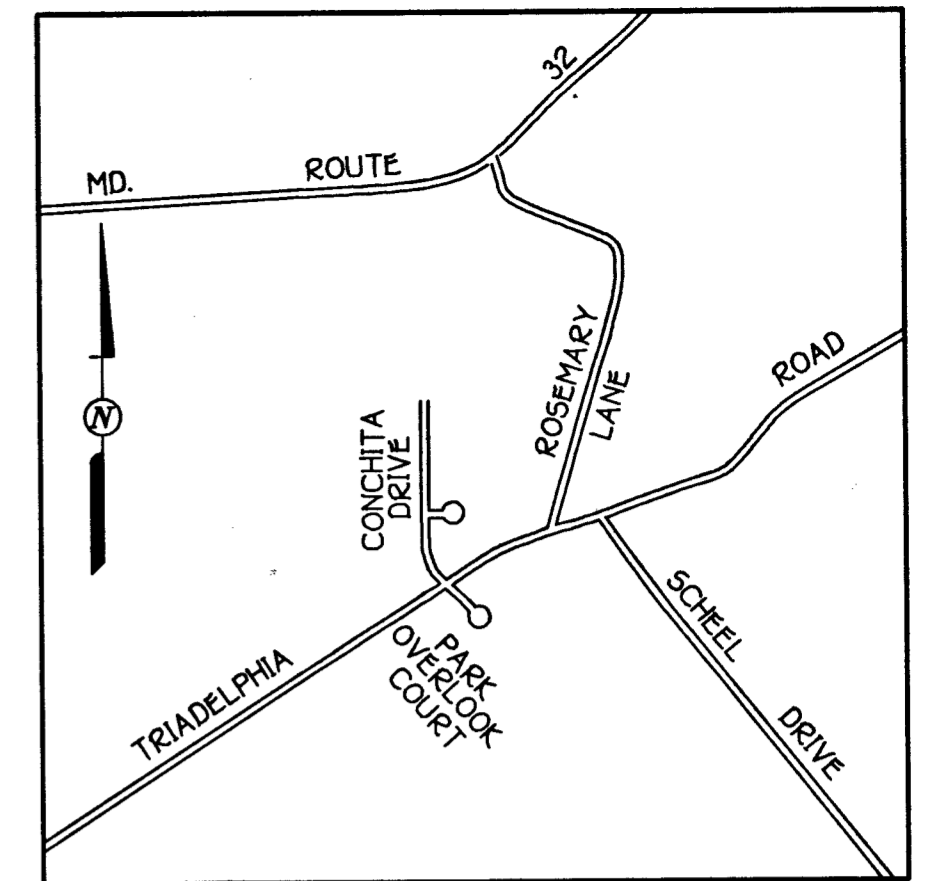


LOT 1
61.6971 AC. ±
PLAT # 10147

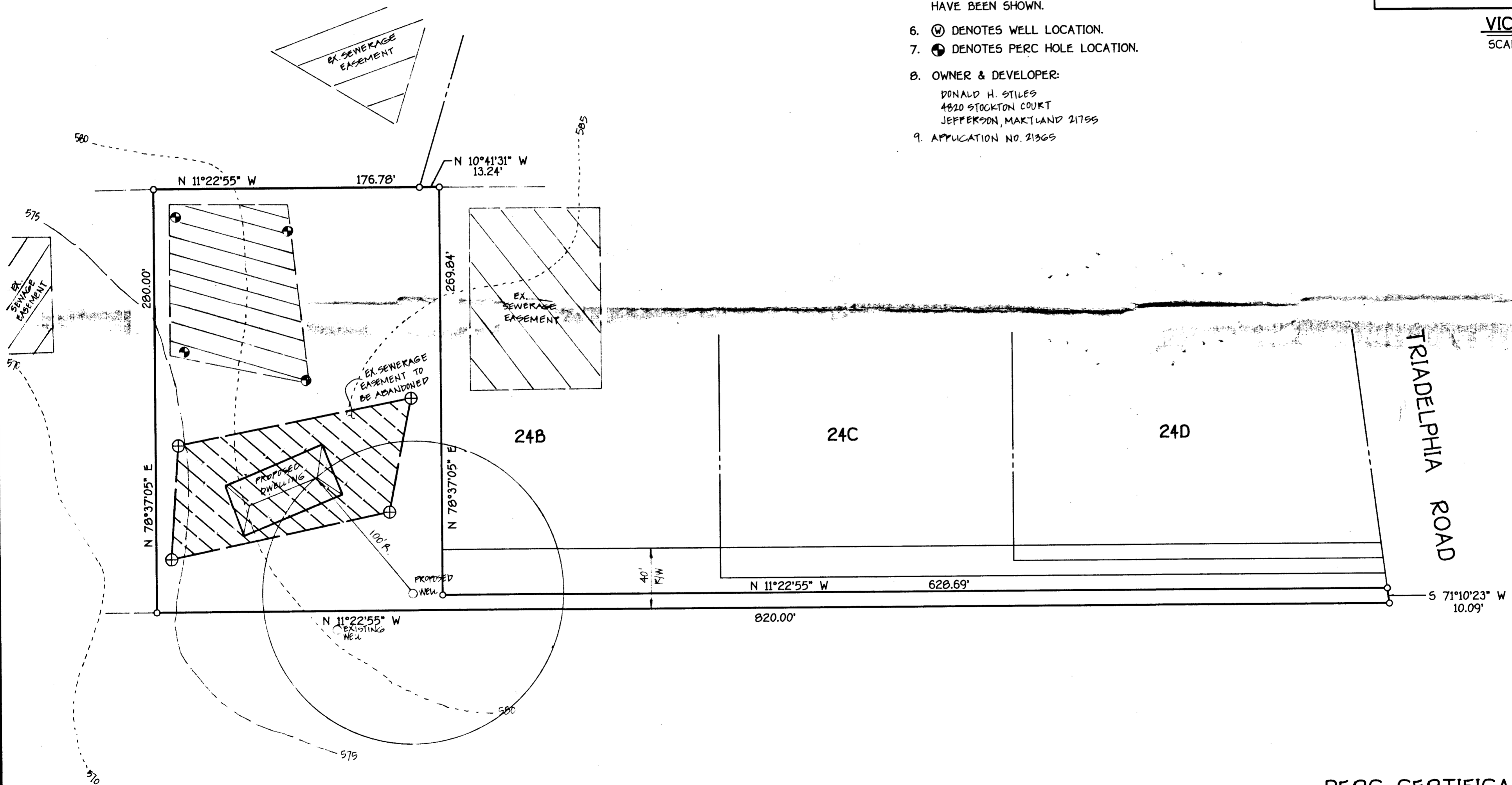
ROBERT B. AND DORIS E. BELL

GENERAL NOTES:

1.  THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2.  THIS AREA DESIGNATES AN EXISTING PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET. THIS EASEMENT IS TO BE ABANDONED BY THIS ACTION.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. THE PURPOSE OF THIS PLAT IS TO REVISE THE EXISTING PRIVATE SEWERAGE EASEMENT RECORDED IN PLAT NO. TO THE LOCATION SHOWN HEREON.
5. ALL WELLS AND SEPTIC AREAS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN.
6.  DENOTES WELL LOCATION.
7.  DENOTES PERC HOLE LOCATION.
8. OWNER & DEVELOPER:
DONALD H. STILES
4820 STOCKTON COURT
JEFFERSON, MARYLAND 21755
9. APPLICATION NO. 21365



VICINITY MAP
SCALE: 1" = 2000'

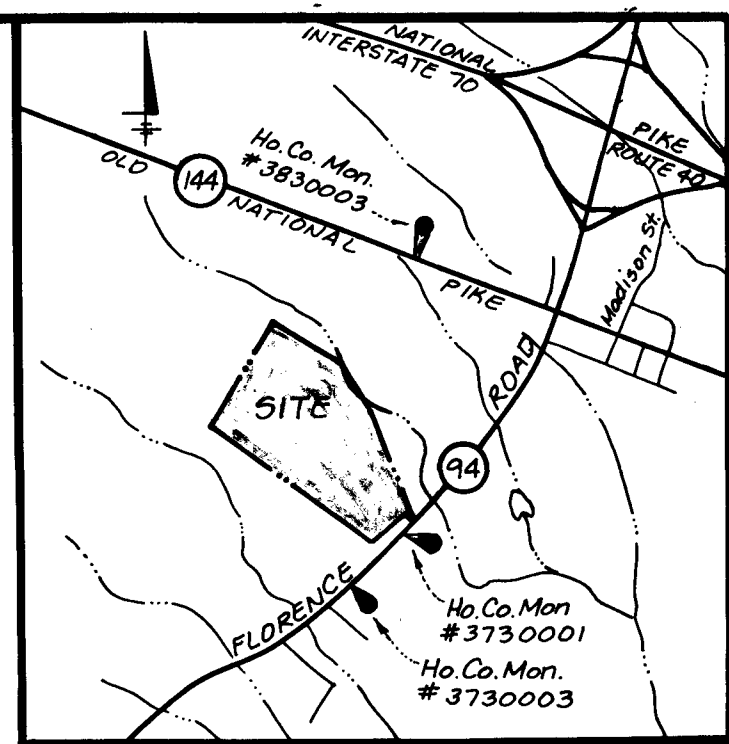


PERC CERTIFICATION PLAT
ROSE MARY ESTATES
LOT 24A

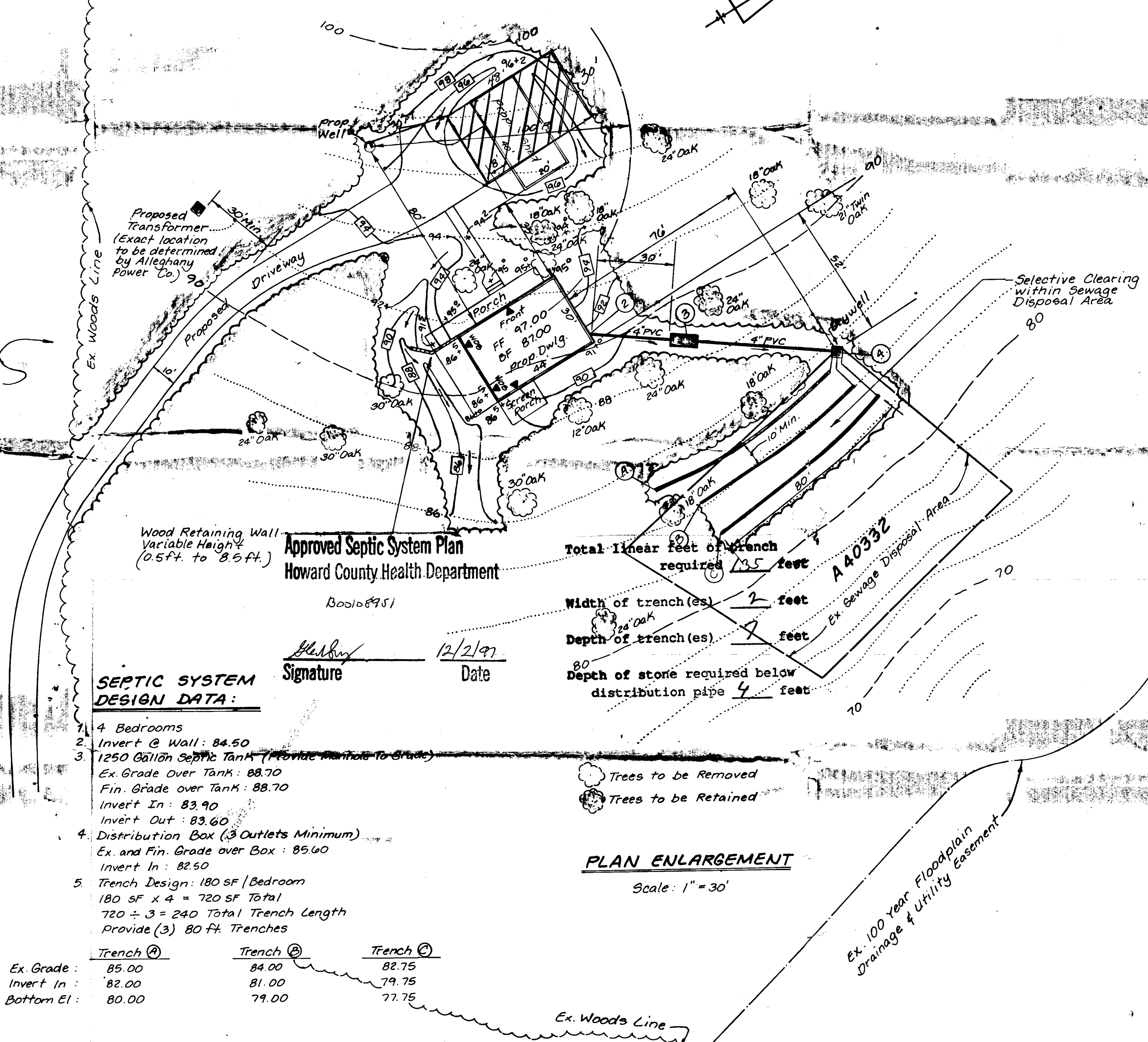
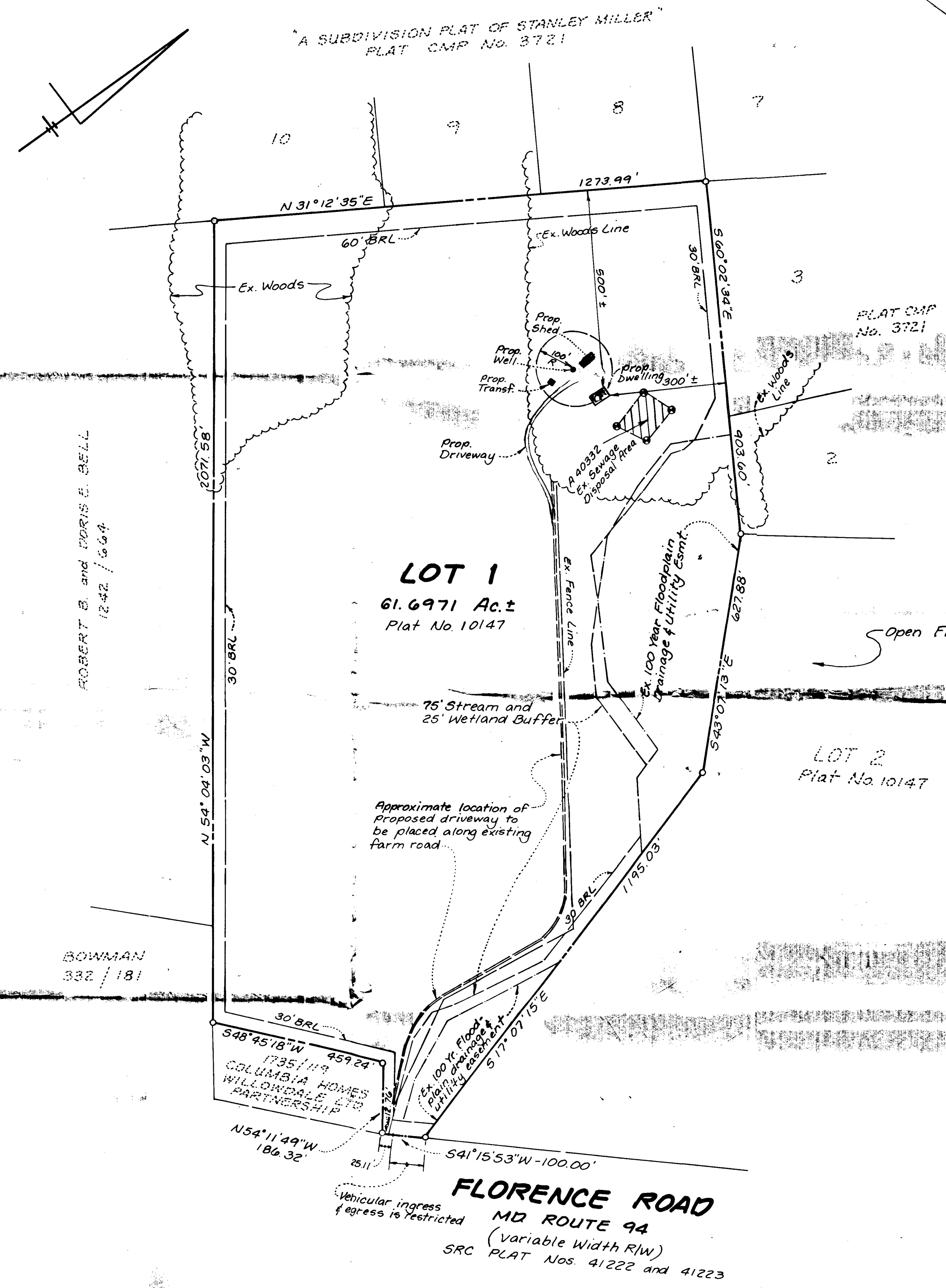
TAX MAP NO. 22 ZONED: RR-DE0 PARCEL NO. 308
3rd. ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' DATE: APRIL 27, 1998

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT.
James M. Boyd
COUNTY HEALTH OFFICER
DATE: 5/4/98

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461-2895



VICINITY MAP
Scale: 1" = 2000'



Approved Septic System Plan
Howard County Health Department
Base 108951
Signature: *[Signature]* Date: 12/2/97

SEPTIC SYSTEM DESIGN DATA:

- 4 Bedrooms
- Invert @ Wall: 84.50
- 1250 Gallon Septic Tank (Provide Manhole to Grade)
Ex. Grade over Tank: 88.70
Fin. Grade over Tank: 88.70
Invert In: 83.90
Invert Out: 83.60
- Distribution Box (3 Outlets Minimum)
Ex and Fin. Grade over Box: 85.60
Invert In: 82.50
- Trench Design: 180 SF / Bedroom
180 SF x 4 = 720 SF Total
720 ÷ 3 = 240 Total Trench Length
Provide (3) 80 ft. Trenches

	Trench (A)	Trench (B)	Trench (C)
Ex. Grade:	85.00	84.00	82.75
Invert In:	82.00	81.00	79.75
Bottom El:	80.00	79.00	77.75

Total linear feet of trench required: 245 feet
Width of trench (es): 2 feet
Depth of trench (es): 2 feet
Depth of stone required below distribution pipe: 4 feet

PLAN ENLARGEMENT
Scale: 1" = 30'

PLAN
Scale: 1" = 200'

LDE, INC.
9250 Rumsey Road, Suite 106, Columbia, MD. 21045
(410) 715-1070 (301) 598-3424 (410) 715-9540 (Fax)

Design: BOB	PLOT PLAN LOT 1 E. ALEXANDER ADAMS and MARION HARLESS PROPERTY Tax Map 7 Grid 17 Parcel 215 4th Election District Howard County, MD Previous Submittals: F92-53, WP 92-68	Scale: As Shown
Drawn: K.B.W.		Sheet: 1 of 1
Check: BOB		Job No: 97-014
Date: 6/25/97		File No:
		Owner/Developer: JUDY GIANGRANDI 2886 Rossmore Drive Ellicott City, Maryland 21043 (410) 465-3114