

C1 18625 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

ST/CO USE ONLY DATE RECEIVED MM 05 DD 28 YY 13 DATE WELL COMPLETED MM 05 DD 10 YY 13 PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-2517
Depth of Well 22 300 26 6/11/13 (TO NEAREST FOOT) 28 29 30 31 32 33 34 35 36 37

OWNER Wenger Stephen last name first name TOWN 211.041 City MD
WELL SITE ADDRESS 3518 Garrett Ct SECTION LOT 17
SUBDIVISION Briar Hill

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	
Top Soil	0	4	
Saprock	4	55	
Bin Rock	55	65	
Soft Gray Rock	65	300	

2 closed loops

GRROUTING RECORD yes no
WELL HAS BEEN GROUTED (Circle Appropriate Box) Y N
44 44
TYPE OF GROUTING MATERIAL (Circle one)
CEMENT CM BENTONITE CLAY BC
NO. OF BAGS 24 NO. OF POUNDS 1200
GALLONS OF WATER 600
DEPTH OF GROUT SEAL (to nearest foot)
from 0 ft. to 300 ft.
(enter 0 if from surface)

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)! Total depth of main casing (nearest foot)
60 61 63 64 66 70

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

SCREEN RECORD
screen type or open hole insert appropriate code below
 ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER

NUMBER OF UNSUCCESSFUL WELLS: _____
WELL HYDROFRACTURED Y N

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 28.04.04 "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.

DRILLERS LIC. NO. 1 M 4D 553
DRILLER'S SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
LIC. NO. 1 95D 138

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

C 2 DEPTH (nearest ft.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
E	8	9	11	15	17	21															
A																					
C	23	24	26	30	32	36															
H																					
S																					
R	38	39	41	45	47	51															
E																					
N																					

SLOT SIZE 1 _____ 2 _____ 3 _____
DIAMETER OF SCREEN (NEAREST INCH)
56 _____ 60 _____
from to

GRAVEL PACK _____
IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 _____ 68

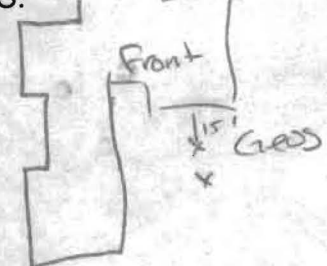
MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) W Q
70 _____ 72 _____ 74 75 76
TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3 **PUMPING TEST**

HOURS PUMPED (nearest hour) 8 9
PUMPING RATE (gal. per min.) 11 15
METHOD USED TO MEASURE PUMPING RATE _____
WATER LEVEL (distance from land surface)
BEFORE PUMPING 77 20 ft.
WHEN PUMPING 22 25 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 INSTALLED PUMP YES NO
(CIRCLE) (YES or 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)
 + above } LAND SURFACE
 - below } (nearest foot)
49 50 51

LATITUDE 39. 27.534
LONGITUDE 76. 94.897
(DEFAULT COORD. WGS 84)

NOTES:


Tax 03-303985

EMERGENCY/TEMP NO. IF ANY

B 1 21218

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

W544593 please type

HO-95-2517 fill in this form completely

Date Received (APA)

04/08/13

OWNER INFORMATION

Wenger Stephen 3518 Garratt Ct Ellicott City MD 21042

B 3 LOCATION OF WELL

Howard 21 COUNTY Briar Hill 42 SUBDIVISION Ellicott City 71 NEAREST TOWN

DRILLER INFORMATION

C. John Hess MWD 553 Allied Environmental Svcs 129 Annapolitan MD 20701

B 4 SOURCES OF DRILLING WATER

3518 Garratt Ct 30 STREET ADDRESS Public ON WHICH SIDE OF ROAD DISTANCE FROM ROAD TAX MAP: 0022 BLK: 0005 PARCEL 0516

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) INDUSTRIAL, COMMERCIAL, DEWATERING PUBLIC WATER SUPPLY WELL TEST, OBSERVATION, MONITORING OPEN LOOP GEOTHERMAL CLOSED LOOP GEOTHERMAL 2 loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 A 31426 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 5/6/13 CO SIGNATURE EXP. DATE 5/6/14

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) AIR-ROTary JETTED AIR-PERCussion JETTED & DRIVEN ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT

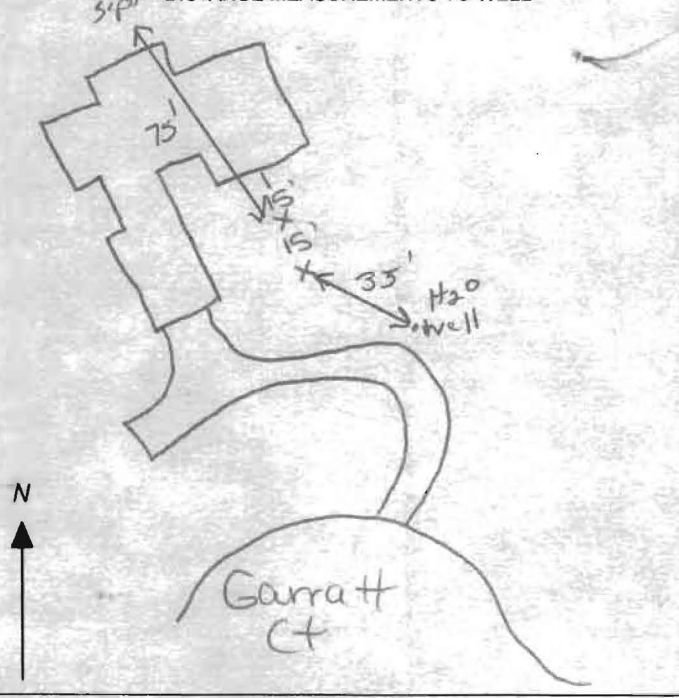
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- 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-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)

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER G PERMIT No. HO-95-2517

PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL



SPECIAL CONDITIONS Grant bore's bottom to top.

Deck
11'6" x 32'

Sepic

Byment
Entrance

10.01
508

N81°51'

33'

27'

64.8
#3518

13.5

20.8

22.0
12.0
22.0
22.0

0.16

15' x 15'

8/6/13
Geo well sides
Approval.

(KW)

35' well per
hammer

75' Building Restriction Line

DO NOT REMOVE THIS TAG
DEPARTMENT OF THE ENVIRONMENT
WELL PERMIT NUMBER

H0-95- 2517

INFORMATION-GIVE NUMBER AND WRITE
1800 WASHINGTON BLVD.
BALTIMORE, MARYLAND 21230

20.67
05



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

IMPORTANT

MEMORANDUM

TO: Allied Environmental Services
Attn: John Hess, MWD 553
FILE

FROM: Kevin M. Wolf, R.S., R.E.H.S. *Kmw*
Well and Septic Program
Groundwater Mgmt. Sec.

DATE: April 18th, 2013

RE: Geothermal Wells

The following comments apply to all geo well application's submitted for review and approval:

A complete Site Plan must be submitted with all well permits. The plan must be clear and legible, and show indications of nominal distances from features on the property to the proposed geobore locations. These features include, but not limited to, wells, septic system components, house, right-of-ways, and property lines.

Site inspections occur frequently on most of the well permit applications submitted to our office for review. Please make sure the proposed geo bore sites are clearly marked in the field (i.e. stakes, flags, markers, etc...)

In conjunction with these statements and current regulations, geothermal bores must be separated by 30' to any potable wells and 50' to any adjacent septic's if geobores are up-gradient and 100' separation if down-gradient. Bores must also be 15' removed from foundations of structures and right-of-way's and 10' removed from all property lines.

Any questions please call me at 410-313-2645 or email kwolf@howardcountymd.gov

KMW
Cc: file



Bureau of Environmental Health
 7178 Columbia Gateway Drive, Columbia, MD 21046-2147
 (410) 313-2640 Fax (410) 313-2646
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

Peter L. Bellenson, M.D., M.P.H., Health Officer

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location:
 Brian Hill 17 3518 Garrett Ct
 Subdivision/Property Name Lot# Road Name

- The well site has been staked by _____
 (professional land surveyor or company employing professional land surveyors)
 on _____ (date) and does not require a site inspection.
- The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05



DEVELOPMENT
CONSULTANTS
GROUP INC.

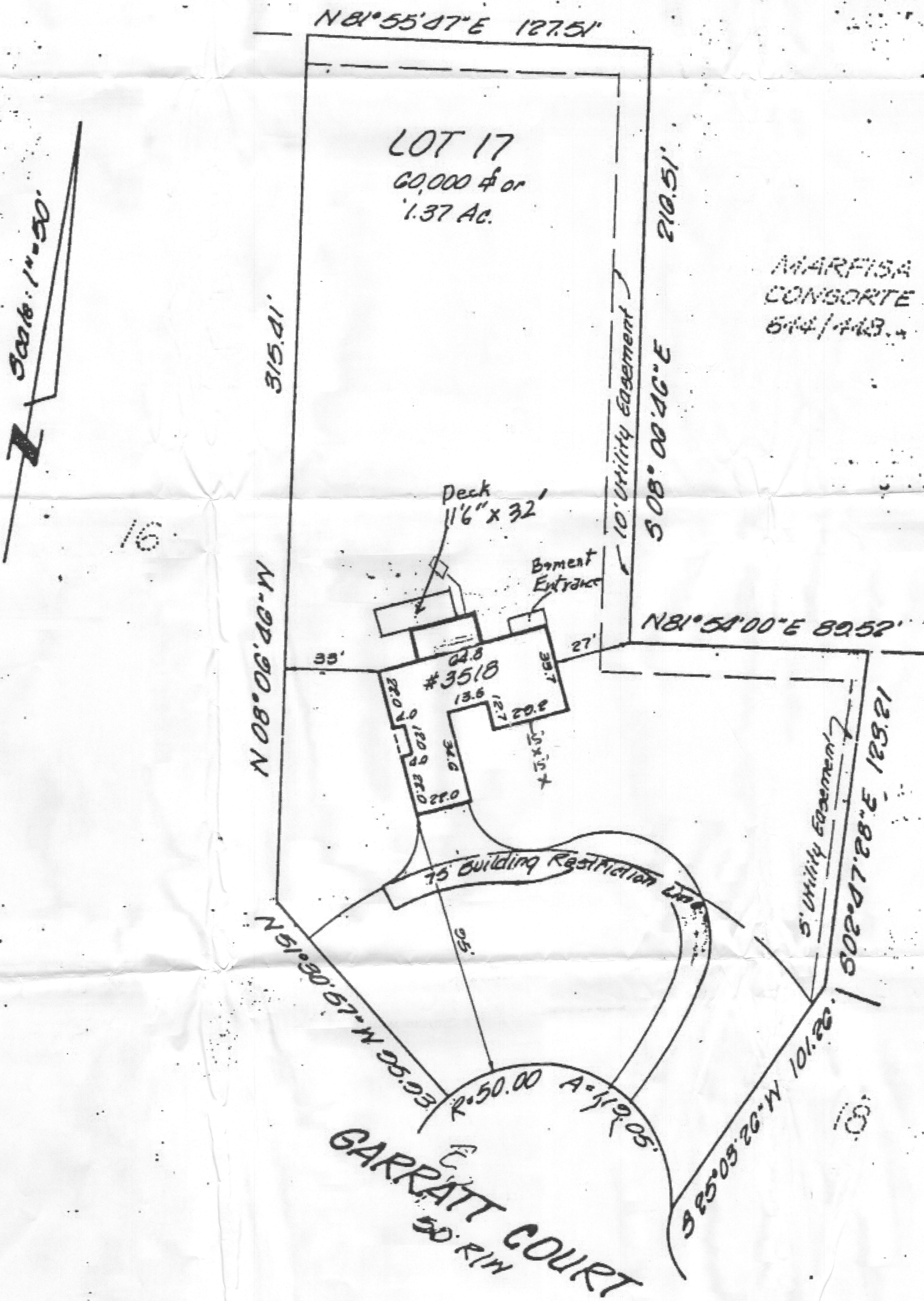
SUITE 235
LONG REACH VILLAGE CENTER 301-596.3811
COLUMBIA, MD. 21045 301-460.3826

HOUSE LOCATION SURVEY

LOT 17

BRIAR HILL

Howard County, Maryland Plat. CMP 358A



NOTE: Existence of property corners not guaranteed by this plat

SURVEYOR'S CERTIFICATION

I hereby certify that the property delineated herein is in accordance with the Plat of Subdivision and, as used of record, that the improvements were located by accepted field practices and include permanent visible structures and encroachments if any. This Plat is not for determining property lines, but prepared for exclusive use of present owners of property and also those who purchase, mortgage, or guarantee the sale thereto within six months from date hereof, and as to them I warrant the accuracy of this Plat. No site report furnished.

Jefferson D. Lawrence
Professional Land Surveyor No. 5816

Job No	77-075
Drawn	JRS
Checked	MLS
Date	1-4-79
Scale	1"=50'
Final	6-19-79



DEVELOPMENT
CONSULTANTS
GROUP INC.

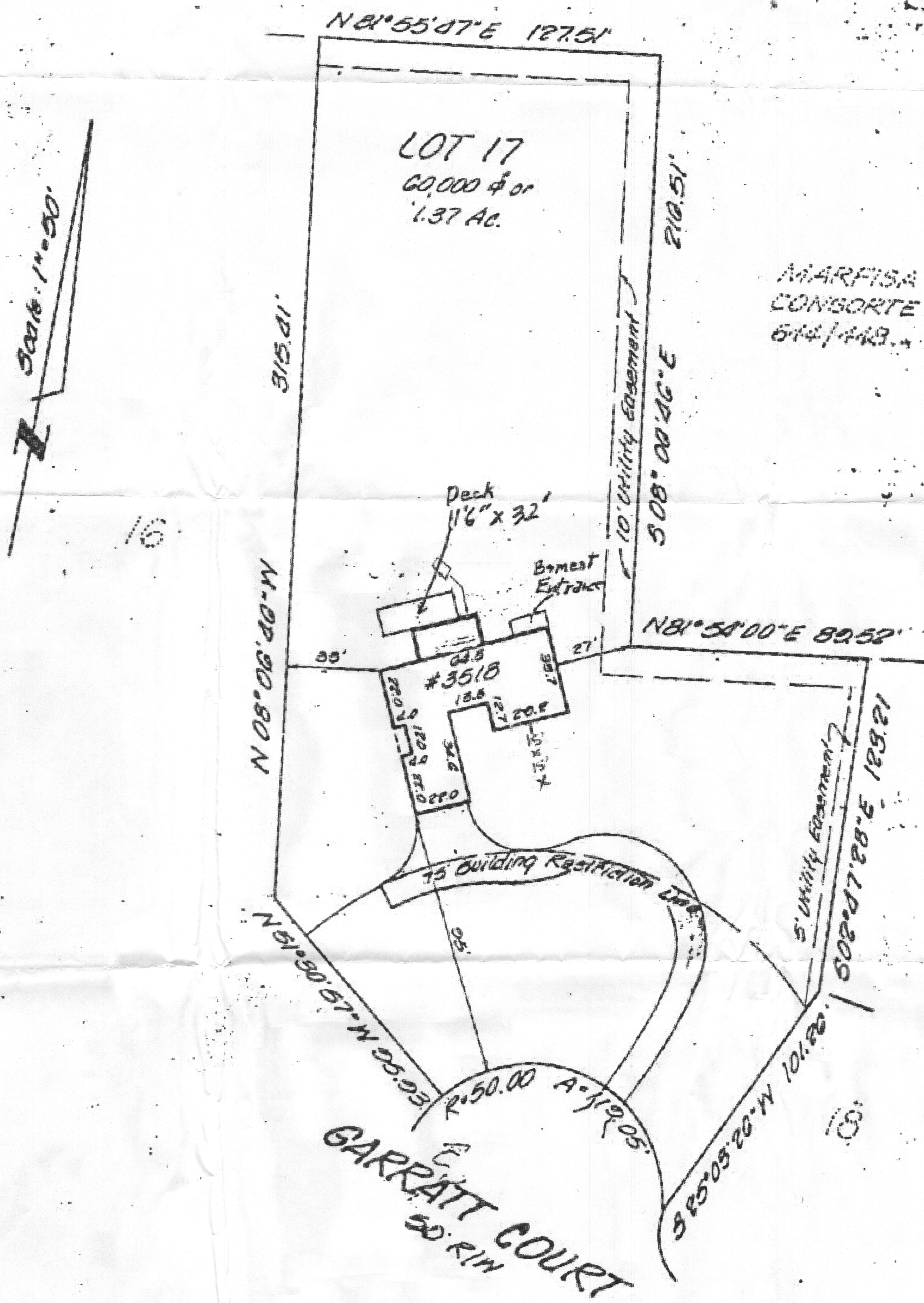
SUITE 235
LONG REACH VILLAGE CENTER 301-596-3811
COLUMBIA, MD. 21045 301-460-3826

HOUSE LOCATION SURVEY

LOT 17

BRIAR HILL

Howard County, Maryland Plat. CMP 355A



Scale: 1"=50'

16

MARFISA
CONSORTE
644/443

Deck
16" x 32"

Basement
Entrance

75 Building Restriction

GARRATT COURT
50' R/W

NOTE: Existence of property corners not guaranteed by this plat

PROFESSIONAL CERTIFICATION

I hereby certify that the property delineated herein is in accordance with the Plat of Subdivision and, to best of my knowledge and belief, that the improvements were located by accepted field practices and include permanent visible structures and encroachments if any. This Plat is not for determining property lines, but prepared for exclusive use of present owners of property and also those who purchase, mortgage, or guarantee the title thereto within six months from date hereof, and as to them I warrant the accuracy of this Plat. No title report furnished.

Jefferson D. Lawrence
Professional Land Surveyor No. 5816

Job No	77-075
Drawn	JRS
Checked	MLS
Date	1-4-79
Scale	1"=50'
Final	6-19-79