

7/16/96
10:00
(SEPTIC CO. WORK)
03-307832

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 56615

A 28490

DISTRICT 3rd

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~313-2640~~ 313-2640

6/19/96
KTK TO CONTACT
WILDER BUILDING TO

INDEXED

DATE 5/10/96

DATE SYSTEM APPROVED 7-16-96

INSPECTOR [Signature]

GET TRANSFER
OF PERMIT. [Signature] / O.K.
6/19/96 ISSUE RESOLVED! [Signature]

J. Joseph Gartland (PLUMBING CONTRACTOR) IS PERMITTED TO INSTALL ALTER

ADDRESS 1835 West Old Liberty Road Westminster, MD 21157 PHONE 875-2400

SUBDIVISION Laukenmann Property LOT 8 ROAD 1070 Driver Road

PROPERTY OWNER Wilder Building Corp. / McMurtrie

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS
NUMBER OF BEDROOMS 4

****TWO DRYWELLS****
*720 total square feet, each drywell to be 15 foot square, providing 360 feet (60' perimeter X 6' deep) square foot of area.

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED _____

TRENCHES - Inlet 4 feet below original grade. Bottom maximum depth 10 feet below original grade. Effective area begins at 4 feet below original grade.

LOCATION - Place the center of the upper drywell 60' from the front lot line and 30' from the right lot line. Center of second drywell to be 45' downhill from center of upper drywell. Use distribution box or similar device to split effluent equally between the two drywells.

OK 1/2 PG Dylas

6-5-96 SITE INSPECTION - GRAVITY SERVICE SHOULD BE NO ARCADE TO ALL PORTION OF THE SEWAGE EASEMENT - WELL CONFLICT WITH HIGHER PORTION OF SEWAGE EASEMENT.

PLANS APPROVED BY Craig Williams DATE 10/5/95

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

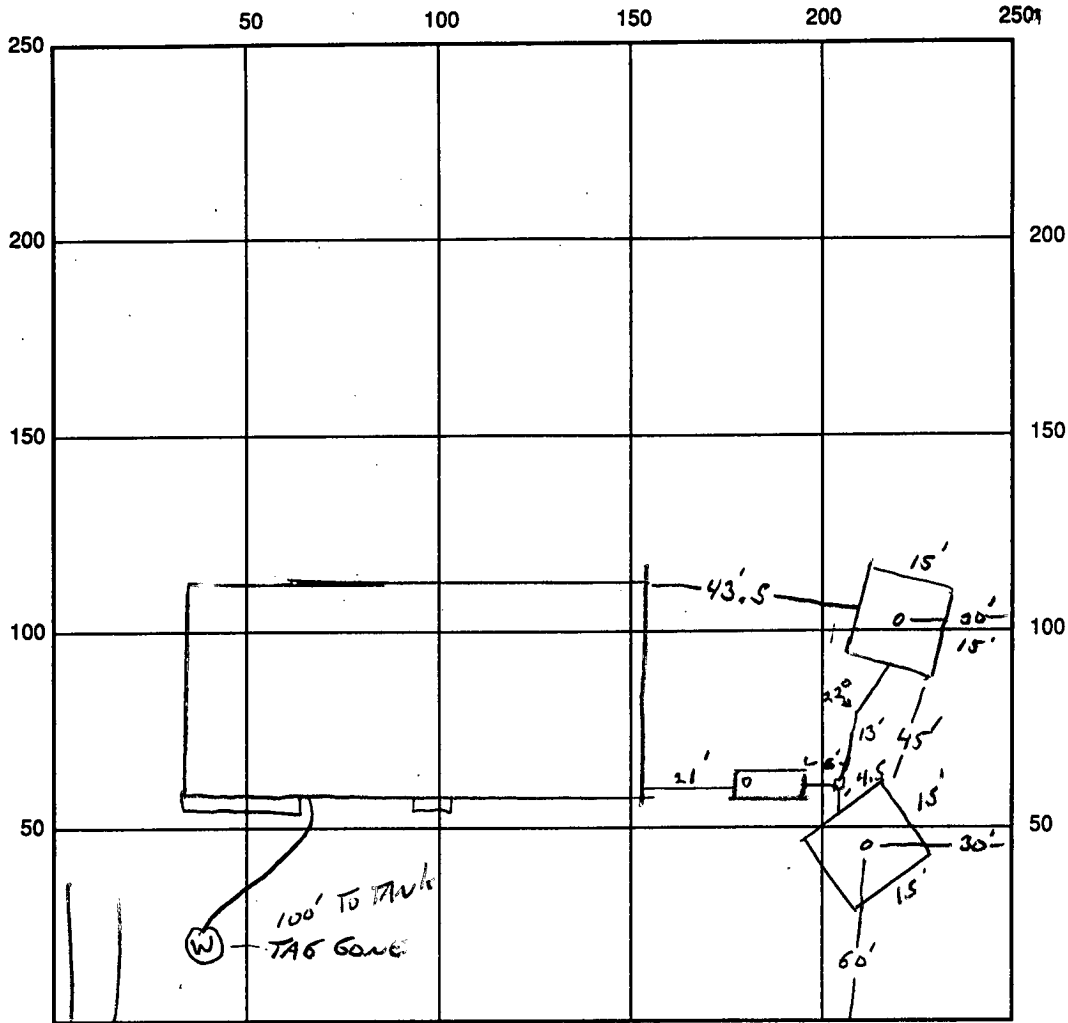
PERMIT VOID AFTER TWO YEARS

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**

A 28490



7/16/96
WPI OK
HH

REAR DRYWELL IS
105' FROM C.O. TO
FRONT LOT LINE

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE
DRIVER ROAD

N →

SEPTIC TANK LEVEL OK, BAFLE W CLEANOUTS 100' TANK, 1 ON EACH DRYWELL
 DISTRIBUTION BOX LEVEL OK
 DRAIN FIELD/TITLE DEPTH 10 FT. TRENCH WIDTH NA FT. INLET DEPTH 4 FT.
 EFFECTIVE GRAVEL DEPTH 6-7' FT. TOTAL LENGTH — FT.
 NUMBER OF TRENCHES NA ~~ONE~~ SIDEWALL/BOTTOM AREA 720 SQ. FT.
 DRYWALL INSIDE DIAMETER 60 FT. EFFECTIVE DEPTH BELOW INLET 6 FT.
 ABSORBENT AREA 720 SQ. FT.

REMARKS: 7-16-96 SEPTIC SYSTEM OK TO COVER.

DATE SYSTEM APPROVED 7-16-96 INSPECTOR Hal Jones

PRELIMINARY

APPLICATION

A 28490

P _____

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

DISTRICT 3rd

P. O. BOX 476, ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 465-5000, EXT. 356

DATE 7/13/78

~~System 1~~

Final lot 8 4/2/79

SYSTEM TEST (OK/CU)

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 Laukenmann property

ADDRESS _____ PHONE Boender - 465-7777

PROPERTY LOCATION:

PART OF LOT 8 ON
5 ON 1/25/79
F79-11

SUBDIVISION _____ LOT NO. 5

ROAD AND DESCRIPTION Driver Road

BLDG. PERMIT SIGNED
AND RETURNED 12-11-95

SIZE OF LOT 3 acres m/1 TYPE BLDG. 3 or 4 bedrooms 4 BRMS
Serial # 62847
NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE _____

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

SIGNATURE OF APPLICANT /s/ Jack Boender

APPROVED BY _____ FOR _____ DATE _____
(KIND OF SYSTEM)

REJECTED BY _____ FOR _____ DATE _____
(KIND OF SYSTEM)

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT

lots		see ATT attached		

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
8/23/76	15	4'	208	228	failed 1st	inch	4 1/5	
	10	13' (13)	212	215	215	219	4	
	25	3 1/2	144	156	156	222	26	
	20	13'	144	147	147	156	9	
	1M	5'	233	235	235	239	4	
	35	4	240	243	243	246	3	
	30	13	240	243	243	250	7	
	4	10'	} visual - see profile					
	5	10'						
	6	11'						

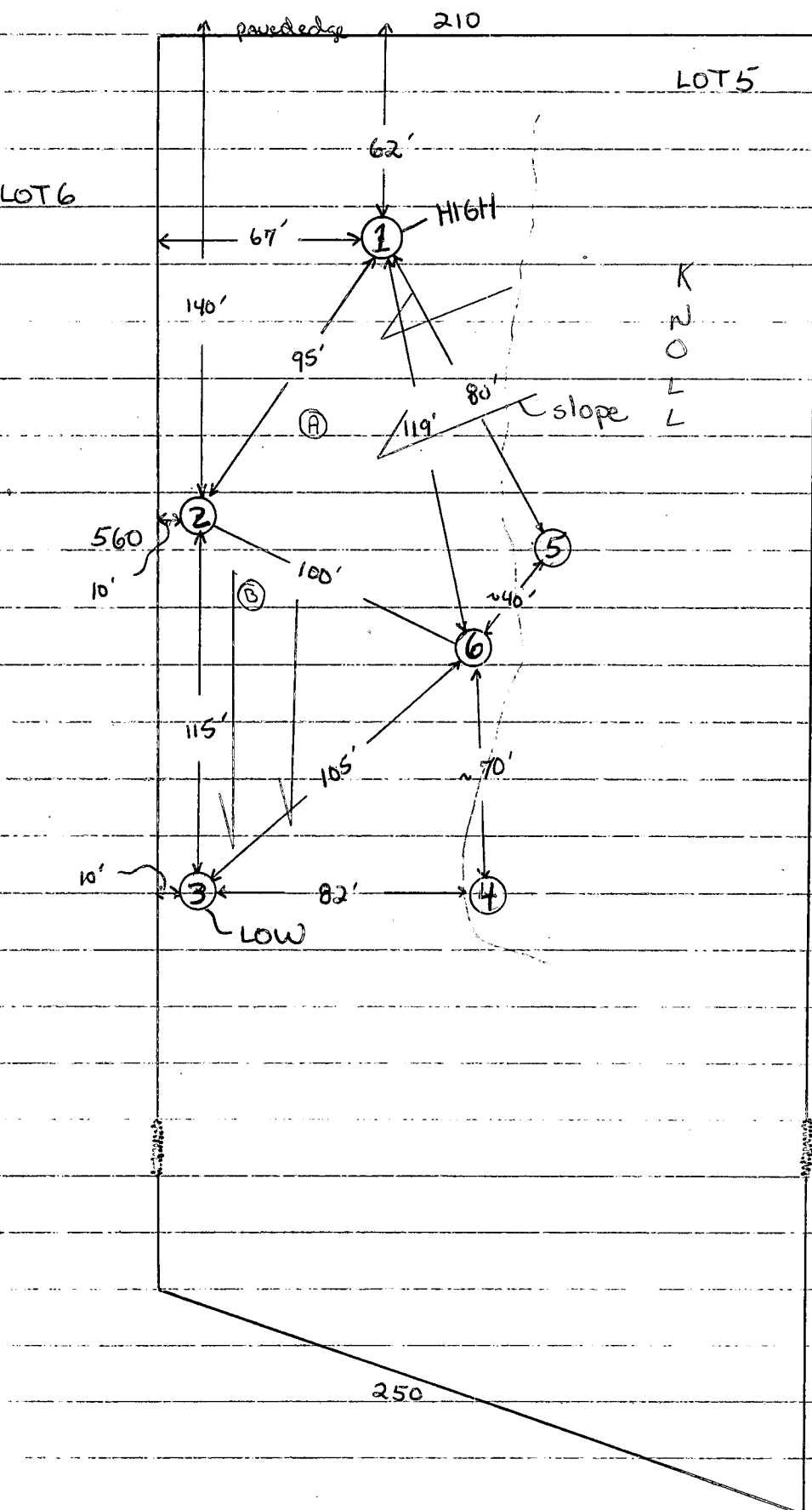
9.

REMARKS _____

TYPE OF SOIL good soil below clay layer - rocky on high elevations

TESTED BY (GLK) + JS ALSO PRESENT: Wilder

DRIVER RD



Area ①, ②, ③, ⑥

$$A \approx \frac{1}{2}(95)(100) \approx 4750$$

$$B = \frac{1}{2}(110)(100) = 5500$$

$$A + B = \text{Total} \approx 10,250 \text{ ft}^2$$

Elevation Difference:

$$\textcircled{1} \rightarrow \textcircled{3} = 3-4' \text{ max.}$$

680	Hole ①	Hole ②, ③
OG	CLAYEY LOAM	OG
5'		3-4'
	SANDY LOAM	SANDY SILTY LOAM
13'		12-13'

Hole ④, ⑤	Hole ⑥
OG	OG
hard blue mica-like rock throughout (boulder-like)	4' CLAYEY LOAM
10' Solid	SANDY SILTY LOAM
	small amts of mica-like rock
	11'

C1 2850

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 COLUMNS 3-6 ON ALL CARDS)

COUNTY NUMBER A28490

ST/CO USE ONLY DATE RECEIVED 1/07/95

DATE WELL COMPLETED 11/01/95

Depth of Well 150 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-94-0692

OWNER WILDER BUILDERS last name first name TOWN WOODSTOCK STREET OR RFD 1070 DRIVER RD SUBDIVISION LAUKEN MAN PROPERTY SECTION LOT 8

WELL LOG Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes entries for Overburden, Brown Shale, and Gray Rock.

GROUTING RECORD Form: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM), CEMENT (12 BAGS), NO. OF POUNDS (1200), DEPTH OF GROUT SEAL (0 to 40 ft).

CASING RECORD Form: casing types insert appropriate code below (ST, CO, PL, OT).

MAIN CASING TYPE Form: Nominal diameter top (main) casing (4 inch), Total depth of main casing (40 feet).

OTHER CASING (if used) Form: diameter inch, depth (feet).

SCREEN RECORD Form: screen type or open-hole insert appropriate code below (ST, BR, HO, PL, OT).

NUMBER OF UNSUCCESSFUL WELLS: 0; WELL HYDROFRACTURED: YES (Y), NO (N).

CIRCLE APPROPRIATE LETTER: A (well abandoned and sealed), 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...

TYPE: MWD/MSD/MGD; DRILLERS LIC. NO. 399; DRILLERS SIGNATURE (handwritten).

DRILLERS SIGNATURE (handwritten); LIC. NO. MSD017; SITE SUPERVISOR (handwritten).

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

DEPTH (nearest ft.) Form: 150; 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); TELESCOPE CASING, LOG INDICATOR, OTHER DATA.

PUMPING TEST Form: HOURS PUMPED (3), PUMPING RATE (13.6 gal. per min.), METHOD USED TO MEASURE PUMPING RATE (Submersible), WATER LEVEL (43 ft. before, 73 ft. when pumping), TYPE OF PUMP USED (S submersible).

PUMP INSTALLED Form: DRILLER WILL INSTALL PUMP (NO), TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29, CAPACITY: GALLONS PER MINUTE, PUMP HORSE POWER, PUMP COLUMN LENGTH (nearest ft.), CASING HEIGHT (+ above, - below), LAND SURFACE (nearest foot).

LOCATION OF WELL ON LOT Form: SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL). Includes a north arrow and 'NA' marking.

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-0692
Location of property (road) 1070 DRIVER RD
Subdivision LAUKENMAN PROPERTY Lot 8 Block Plat Sec.
Well Driller EASTERDAY HALL Owner WILDEA BUILDERS

Depth of well 150'
Distance of measuring point (M.P.) above ground 1'
Static water level (S.W.L.) below M.P. 43'

I. High rate pumping -- reservoir drawdown

Time pump started 0800 Pumping rate 13.64
Total time 15 MIN to reach pumping water level 51' 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 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
0800	43'	22		13.64
0815	51'	22		13.64
0830	57'	22		13.64
0845	63'	22		13.64
0900	68'	22		13.64
0915	70'	22		13.64
0930	71'	22		13.64
0945	72'	22		13.64
1000	73'	22		13.64
1015	73'	22		13.64
1030	73'	22		13.64
1045	73'	22		13.64
1100	73'	22		13.64

7-16-96
W.P.I. dk

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 5/10/96

Name of Installer J. Jas. Bartland, Inc.

Telephone 875-2400

License Number 1713

Certified Well Pump Installer Well Driller Registered Plumber

Name of Property Owner Wilder Bldg. Corp.

Telephone 461-2522

Subdivision _____ Lot # 8

Well Tag # _____

Site Address 1070 Driven Rd.

- | | | |
|---|--|-------------------------|
| Pump | Motor | Pitless Adapter |
| 1. Type | 1. Horsepower <u>1/2</u> | 1. Make <u>HANVARD</u> |
| a. Deep well jet _____ | 2. RPM _____ | 2. Model # <u>PT800</u> |
| b. Shallow well jet _____ | 3. Voltage _____ | 3. Depth <u>42"</u> |
| c. Submersible <input checked="" type="checkbox"/> | a. 110 _____ | |
| 2. Make <u>Goulds</u> | b. 220 <input checked="" type="checkbox"/> | |
| 3. Model # <u>10EJ05422</u> | | |
| 4. Capacity <u>10</u> GPM | | |
| 5. Pump exceeds well capacity Yes _____ No <input checked="" type="checkbox"/> | | |
| 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 _____ | | |

- | | | |
|---|---|---|
| Tank | Piping | Well data |
| 1. Capacity <u>42gal</u> | 1. Type <u>PLASTIC</u> | 1. Depth <u>150</u> ft. |
| 2. Pressure relief valve? <u>7.5psi</u> | 2. Size <u>1"</u> | 2. Yield <u>13.6</u> GPM |
| | 3. NSF and/or BOCA Code approved <u>Yes</u> | 3. Static water level _____ ft. |
| | 4. Depth of supply line <u>42"</u> | 4. Will water supply be disinfected by installer? <u>No</u> |

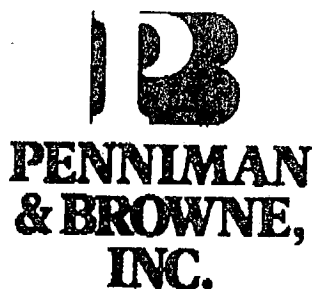
I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

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

Signature of Applicant: _____

Date: 5/10/96

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



CHEMISTS / ENGINEERS / INSPECTORS

6252 FALLS ROAD / P.O. BOX 66309 / BALTIMORE, MARYLAND 21209-0509 / TELEPHONE 410-825-4131 / FAX 410-321-7384

REPORT OF ANALYSIS

No. 961845 August 9, 1996
 Sample of Water rec'd 8/7/96 @ 1350
 Client Wilder Building Corporation
 Source of Sample Sampled by Penniman & Browne, Inc.
 Marks or Other Data Sampler: T. Baker #96-164

<u>Grab Sample 8/7/96</u>	<u>MDL</u>	<u>Results</u>	<u>Analyzed</u>
Nitrates, mg/l	1.0	7.9	8/9,1300 TW-WeWW5880
Sand	--	Present	8/7,1300 TB-Visual
Total Coliform	--	Negative	8/7,1400 SD-ONPG-MMO-MUG
Turbidity, NTU	1.0	5.8	8/8,1230 TW-SM2130B

<u>Grab Resample 8/9/96</u>	<u>MDL</u>	<u>Results</u>	<u>Analyzed</u>
Sand	--	Not Present	8/9,1000 TB-Visual
Turbidity, NTU	1.0	<1.0	8/9,1450 TW-SM2130B

MDL = Method Detection Limit

According to state regulations, the absence of coliform organisms indicate the water is bacteriologically of potable quality.

The maximum allowable level for nitrates in drinking water is 10 mg/l.

Barbara Black
 Barbara Black

I. Stephen Jaworski
 I. Stephen Jaworski PhD

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HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

October 8, 1996

Mr. McMurtrie
1070 Driver Road
Marriottsville, Maryland 21104

RE: Laukenmann Property, Lot #8
1070 Driver Road
Well Permit #HO-94-0692

Dear Mr. McMurtrie:

This is to advise you that the septic system for the above referenced property was installed, inspected and approved on July 16, 1996.

The water sample recently submitted for testing was free of coliform and fecal coliform bacteria at the time of sampling and is bacteriologically safe for drinking.

FINAL CERTIFICATE OF POTABILITY

This certifies that all sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under permit #HO-94-0692.

Dates of Water Samples: August 7, 1996
October 1, 1996

Date of Well Completion: November 1, 1995

Approving Authority

Donna K. Soe, R.S.
Water and Sewerage Program

DKS
Enclosures
cc: file

SHEET 1 OF 2

881'

N82°40'02"E 45.99'

137.35'

581°20'24"N 67510'

576°22'29"E 53500'

508°39'36"E 468.04'

2535'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

30'

I certify that the Above measurements AND ELEVATIONS are actual and correct FOR THIS PROPERTY.
Joseph Wilder
President
Wilder Bldg. Corp.
8-31-95

1ST FL. EL. 302'
D.F. EL. 493
INF. EL. 491.30'
SEP TANK
EXIST ELEV 496
INV IN 484.45
INV. BUT 489.60

DISTA #1
EXIST EL 491'
INV IN 485.00'

SITE PLAN
Lot 8
Lankenmann Property
3 ac. DITR.
Howard County
Md.
print 4545
Scale 1/8" = 30'

1000

SHEET #4

LOT 8
3063 AC.

490

492

494

496

498

499

500

501

502

503

504

505

BUILDING RESTRICTION LINE

EXISTING 50' WIDE COLONIAL PIPELINE EASEMENT LINE

SEE SHEET #4

EX. 30' 1/2 RW DRIVER RD.

E ROAD

DIST. 89X
SEPTIC TANK

WELL SITE OK
BUT
STICKER NOT
LEFT ON
STAKE

10/3/95
C. Wilder

Wilder Bldg. Corp.
461-2522

TAN.	CHD BEARING & DIS.
3.77'	S03°20'22"E 87.16'

Copy of Signed Final

LOT 2
PB. 4028

MATCH LINE
S2°06'33"W

E 4400

422.27

SEE SHEET 1 OF 2

N14°58'00"W 82.88'
N14°10'41"W 115.05'
S12°25'05"E 152.05'
S19°43'58"E 88.58'
26.61'
519.27'
88.58'

N82°40'02"E 45.99'
N75°06'59"W 250.13'
S12°25'05"E 152.05'

MATCH LINE
S6°00'00"E

432.08

BLDG. RESTRICTION LINE
BLDG. RESTRICTION LINE
BLDG. RESTRICTION LINE

S84°57'42"E 929.37'

EXISTING 50' WIDE COLONIAL PIPELINE EASEMENT

LOT 8
3.063 AC.

LOT 6
3.032 AC.

LOT 7
3.021 AC.

S81°20'24"W 499.52'

BUILDING RESTRICTION LINE
200.00'

DRIVER ROAD
(PB. 4028)

N3600

S08°38'36"E 468.04'

68.04'

174.67'

EX. 30' 1/2 RM

E 5

SITE PLAN
Lot 8

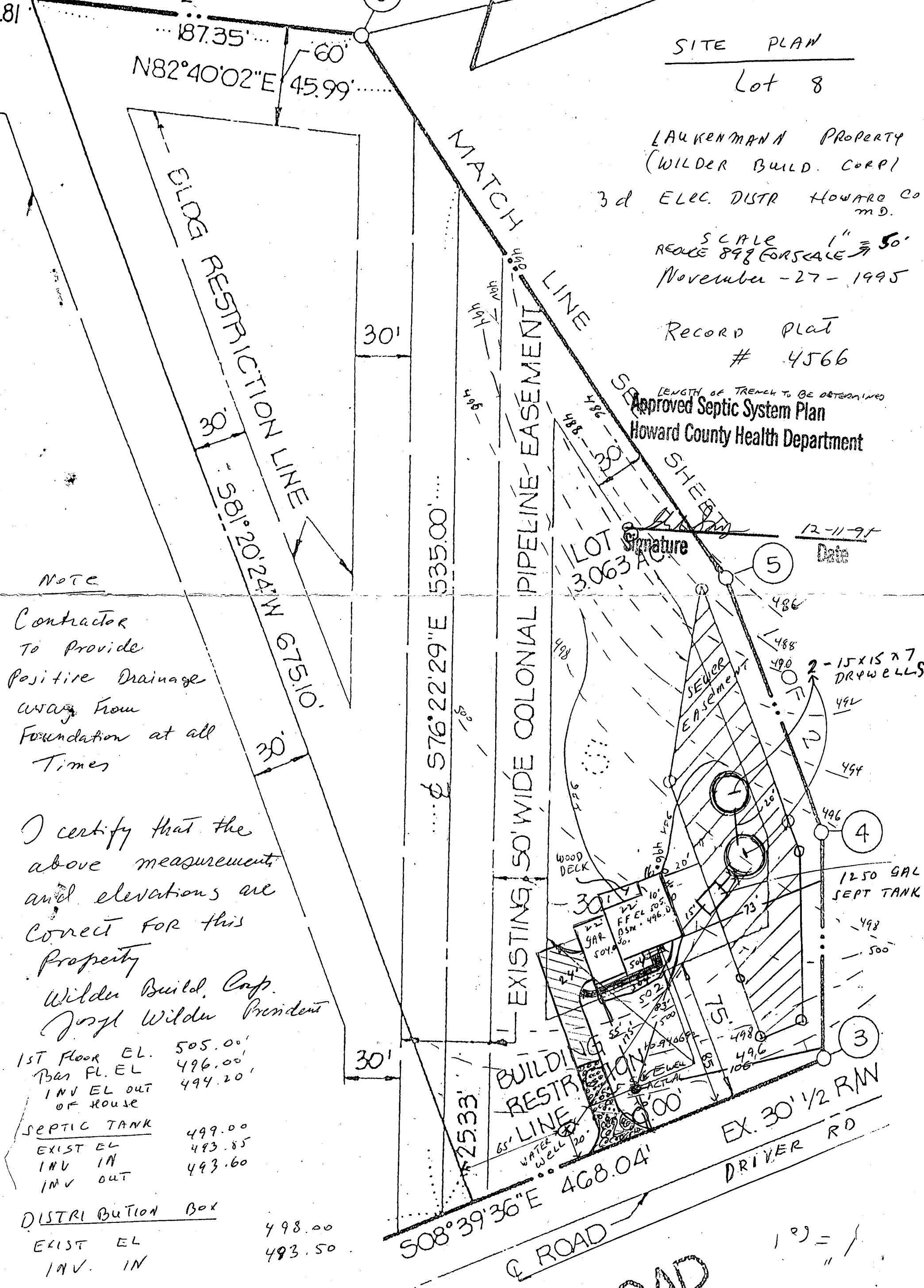
LAUKENMAN PROPERTY
(WILDER BUILD. CORP)
3d ELEC. DISTR HOWARD CO MD.

SCALE 1" = 50'
RECORD 898 FOR SCALE
November - 27 - 1995

Record Plat # 4566

Approved Septic System Plan
Howard County Health Department

Signature _____
Date 12-11-95



NOTE

Contractor
To provide
Positive Drainage
away from
Foundation at all
Times

I certify that the
above measurements
and elevations are
correct for this
Property

Wilder Build. Corp.
Joseph Wilder President

1st Floor EL.	505.00'
Bas Fl. EL.	496.00'
INV EL OUT OF HOUSE	494.20'
SEPTIC TANK	
EXIST EL	499.00
INV IN	493.85
INV OUT	493.60

DISTRIBUTION Box	
EXIST EL	498.00
INV. IN	493.50

1" = 50'