

4/20/00
ASAP 4/23/00
a

04-362020

PERMIT

SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
410-313-2640

P 513391

A 50572-N

ISSUE DATE 4/17/00

APPROVAL DATE 4/20/00

INDEXED

K&K Excavating IS PERMITTED TO INSTALL ALTER

ADDRESS 14960 Route 144 Woodbine, MD 21797 PHONE _____

SUBDIVISION Carriage Mill Farms LOT NUMBER 45 ADDRESS 14801 Carriage Mill Drive

PROPERTY OWNER Oakhill Properties PROPERTY OWNER'S ADDRESS 107 Loudoun Street, S.E.

Leesburg, VA 20175

SEPTIC TANK CAPACITY 1250 GALLONS

PUMP CHAMBER CAPACITY _____ GALLONS

NUMBER OF BEDROOMS 4

* WATERTIGHT SEPTIC TANK AND
PRE-INSTALLATION TRENCH LAYOUT
INSPECTION REQUIRED. *

SQUARE FEET PER BEDROOM 210

LINEAR FEET OF TRENCH REQUIRED 280

TRENCHES: Trenches to be 3 feet wide. Inlet 3.5 feet below original grade. Bottom maximum depth

5.5 feet below original grade. 2 feet of stone below distribution box.

LOCATION: Place the distribution box 125' from the front lot line and 20'-30' off the left lot

line. Run trenches along contour toward rear of lot.

PLANS APPROVED Craig Williams OK SRM 4/21/00 DATE 1-13-2000

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

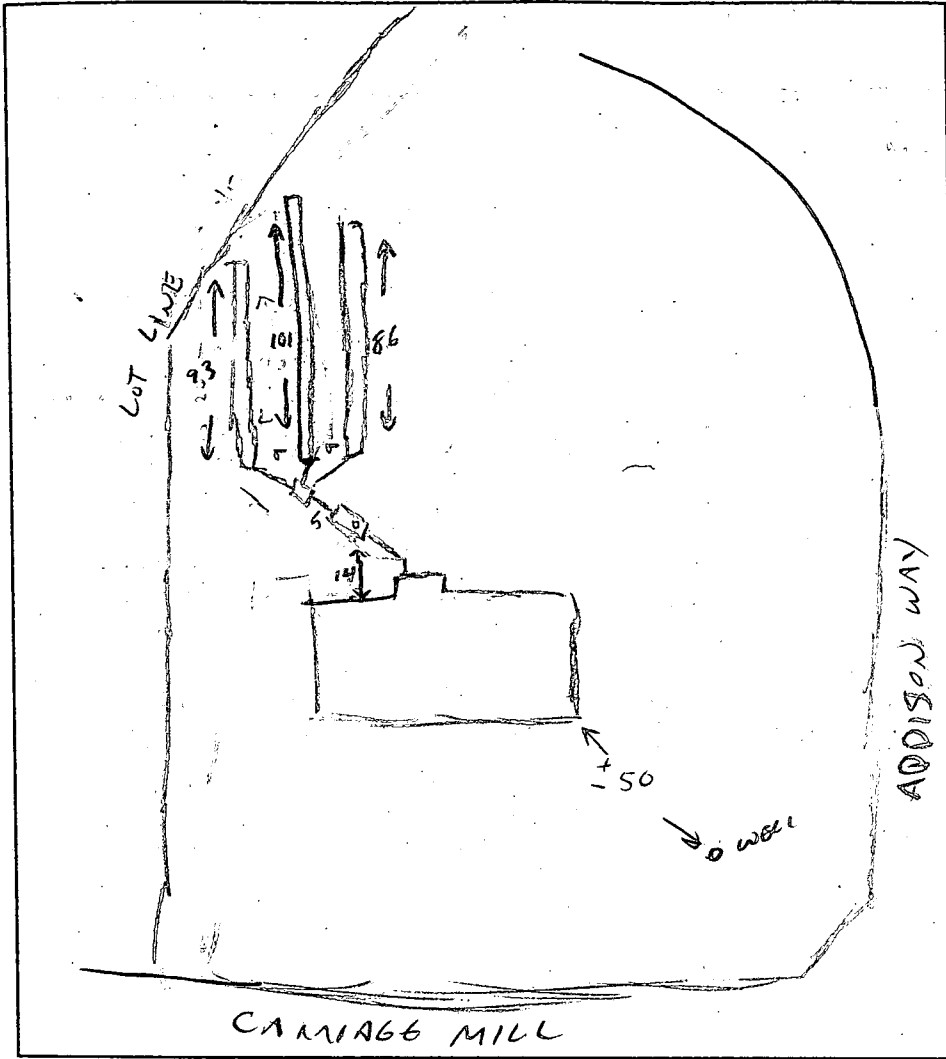
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

A50572-N

NOT TO SCALE



TRENCH DATA

TRENCH WIDTH 3'
 TRENCH INLET DEPTH 3 1/2'
 TRENCH BOTTOM DEPTH 5 1/2'
 DEPTH OF STONE 2'
 NUMBER OF TRENCHES 3
 TOTAL TRENCH LENGTH 280
 ABSORBENT AREA 720
 DISTRIBUTION BOX LEVEL
 BAFFLE IN DISTRIBUTION BOX CINDER BLOCK

SEPTIC TANK DATA

SEPTIC TANK 1250 ^{TOP SEAMED} GALLONS
 MANHOLE RISER _____
 6 INCH INSPECTION PORT

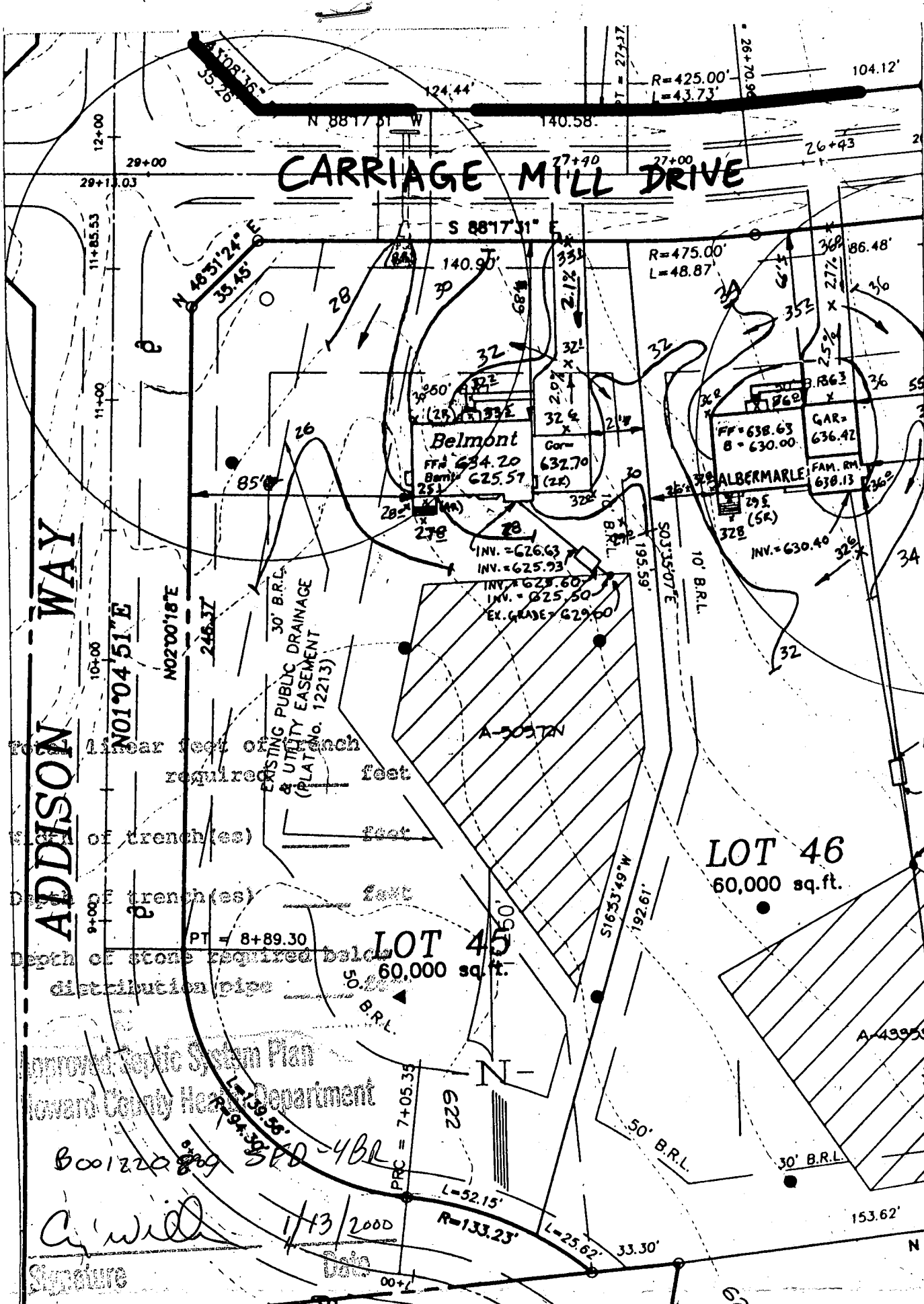
PUMP CHAMBER DATA

PUMP CHAMBER GALLONS N/A
 MANHOLE RISER _____
 ALARM _____
 PUMP PERFORMANCE TEST _____

PRE-CONSTRUCTION INSPECTION: 4/20/00 TRENCH ORIENTATION - OK TO FOLLOW UPPER EDGE OF FOUNDATION, (CW)

INSPECTION COMMENTS: TANK -> DIST BOX -> FIRST TRENCH COMPLETE, 4/20/00 (CW)
2ND TRENCH COMPLETE - THIRD TRENCH IN PROGRESS, OK TO COVER ALL 4/20/00 (CW)

INSPECTOR Curt Jones DATE SYSTEM APPROVED 4/20/00



CARRIAGE MILL FARMS

**PHASE II
LOT 45
BUILDING PERMIT**

DATE: 12/23/99	PROJECT NO.: 95005.22
DRAWN BY: JMZ	SCALE: 1"=50'

SEPTIC DATA

INV. OUT OF HOUSE = 626.63
 INV. INTO SEPTIC TANK = 625.93
 INV. OUT SEPTIC TANK = 625.60
 INV. INTO DIST. BOX = 625.50
 EX. ELEV @ DIST. BOX = 629.00

6P 99 126

R.M. MOCHI GROUP, P.C.
 CIVIL ENGINEERS
 LAND SURVEYORS
 PLANNERS
 ENVIRONMENTAL

P.O. Box 10
 New Market, MD 21774-0010
 10120 A Old National Pike
 Ploverville, MD 21754-9706

(301) 865-5858
 Fax: (301) 865-5111

4/19/00
W.P. [signature]

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

~~461-0022~~
410-313-2640

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation
Replacement

Receipt # _____
Date 4-15-00

Name of Installer Darren Wilson

Telephone _____

License Number JD5065

Certified Well Pump Installer Well Driller Registered Plumber

Name of Property Owner Oak Hill Prop

Telephone _____

Subdivision _____ Lot # 45

Well Tag # 16-99-2148

Site Address Carriage Mill Ln.

Pump

- 1. Type
 - a. Deep well jet _____
 - b. Shallow well jet _____
 - c. Submersible

Motor

- 1. Horsepower _____
- 2. RPM _____
- 3. Voltage 3150
 - a. 110 _____
 - b. 220

Pitless Adapter

- 1. Make Mattinson
- 2. Model # B-10K
- 3. Depth 31/2

- 2. Make Grundfos
- 3. Model # 56503122
- 4. Capacity 5.20 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 _____

Tank

- 1. Capacity 32
- 2. Pressure relief valve?

Piping

- 1. Type PE
- 2. Size 1"
- 3. NSF and/or BOCA Code approved
- 4. Depth of supply line 31/2

Well data

- 1. Depth 300 ft.
- 2. Yield 10 GPM
- 3. Static water level _____ ft.
- 4. Will water supply be disinfected by installer?

4/17/00 Pitless 4' below grade 2-piece cap 27" above grade. Some channeling around casing. O.K. (BB)

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: Darren Wilson [signature]

Date: 4-15-00

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

APPLICATION

PERCOLATION TESTING

A 50572N

P _____

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

DISTRICT 4

DATE March 6, 1995

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 Oak Hill Properties, L.L.C.

ADDRESS 11501 Huff Court, North Bethesda, MD 20895 PHONE 301 816 9433

AGENT OR PROSPECTIVE BUYER Oak Hill Properties, L.L.C/ c/o Ralph E. Bice, III

ADDRESS Same as Above PHONE Same As Above

PROPERTY LOCATION:

SUBDIVISION Berkshire Estates LOT NO. 30

ROAD AND DESCRIPTION (14801 CARRIAGE MILL DRIVE)
Property is located on the Northeast Side of the intersection of Route 144
and Old Frederick Road.

LOG. PERMIT SIGNED

AND RETURNED

1-13-2170
Serial # 270122089

TAX MAP 8 PARCEL# 158 & 79

SIZE OF LOT Average size equals 60,000Sq. Feet TYPE BLDG. Single Family Detached - 4 Bed
(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.

Ralph E. Bice, III
(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 _____

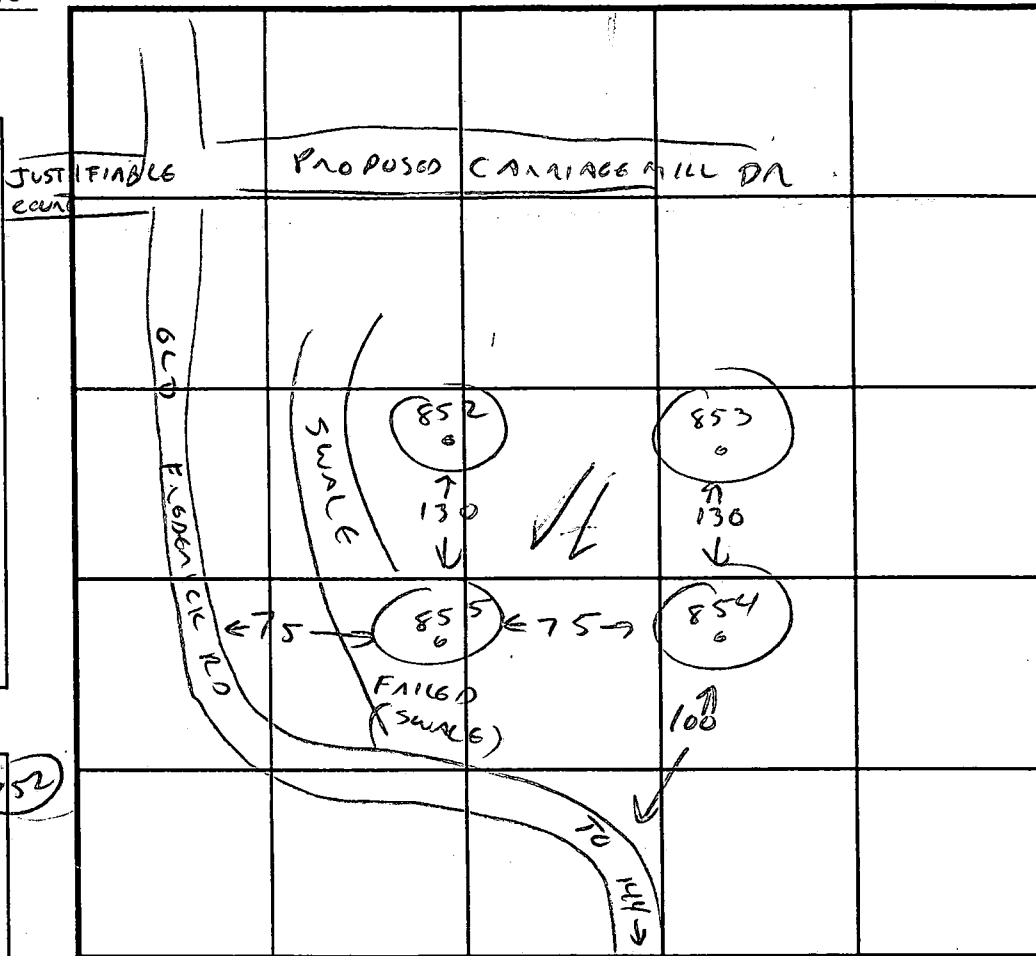
THIS IS NOT A PERMIT

A 50572 N

COUNTY #

SOIL PROFILE

0'
 (855)
 NOT TESTED IN SWALE



SOIL PROFILE

0'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

(853) (852)
 3'
 CLAY
 RED ORANGE LOAM

(854)
 4 1/2'
 CLAY
 RED ORANGE LOAM
 HARD BOTTOM

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
4/11/95	855		UNACCEPTABLE LANDSCAPE POSITION					
	853	3 8	3:26 3:25	3:27 3:27	3:27 3:27	3:29 3:29	2 MIN	
	852	3 8 12	VIS OK SAME AS 853 LOAM 3-12					
	854		VIS OR 4 1/2" - 11 HARD BOTTOM					

REMARKS IN ATCH 16511

TYPE OF SOIL _____

TESTED BY _____ ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 2 TRENCH WIDTH 3

INLET DEPTH 3 1/2 MAXIMUM BOTTOM DEPTH 5 1/2 SQ. FT./BEDROOM 210

liable
urt

COUNTY
ICATION
72Y
22

A-50572K

A-43351

A-43350

835

A-50572J

831

839

842

PT 27+17.26
PC = 26+70.96

26+00

25+00

24+00

23+00

22+00

21+00

20+00

MILL DRIVE

CARRIAGE

28+00

28+00

27+00

26+00

25+00

24+00

23+00

22+00

21+00

20+00

N01°04'51"E

LOT 5

852

853

A-50572N

LOT 6

856

A-43353

LOT 7

A-43354

LOT 8

858

A-50572P

859

LOT 12

865

864

A-50572M

LOT 11

LOT 10

± 621.50

± 622.50

Ch B2
Ch A

857

860

A-50572Q

LOT 4

862

863

861

LOT 9

LOT 9

PHASE I
PHASE II

LOT 28

LOT 29

N85°33'11"E
199.30'

CARRIAGE MILL LEST

Signed Perc. Cert.
8-29-95

EK22

627.87

LOT 3

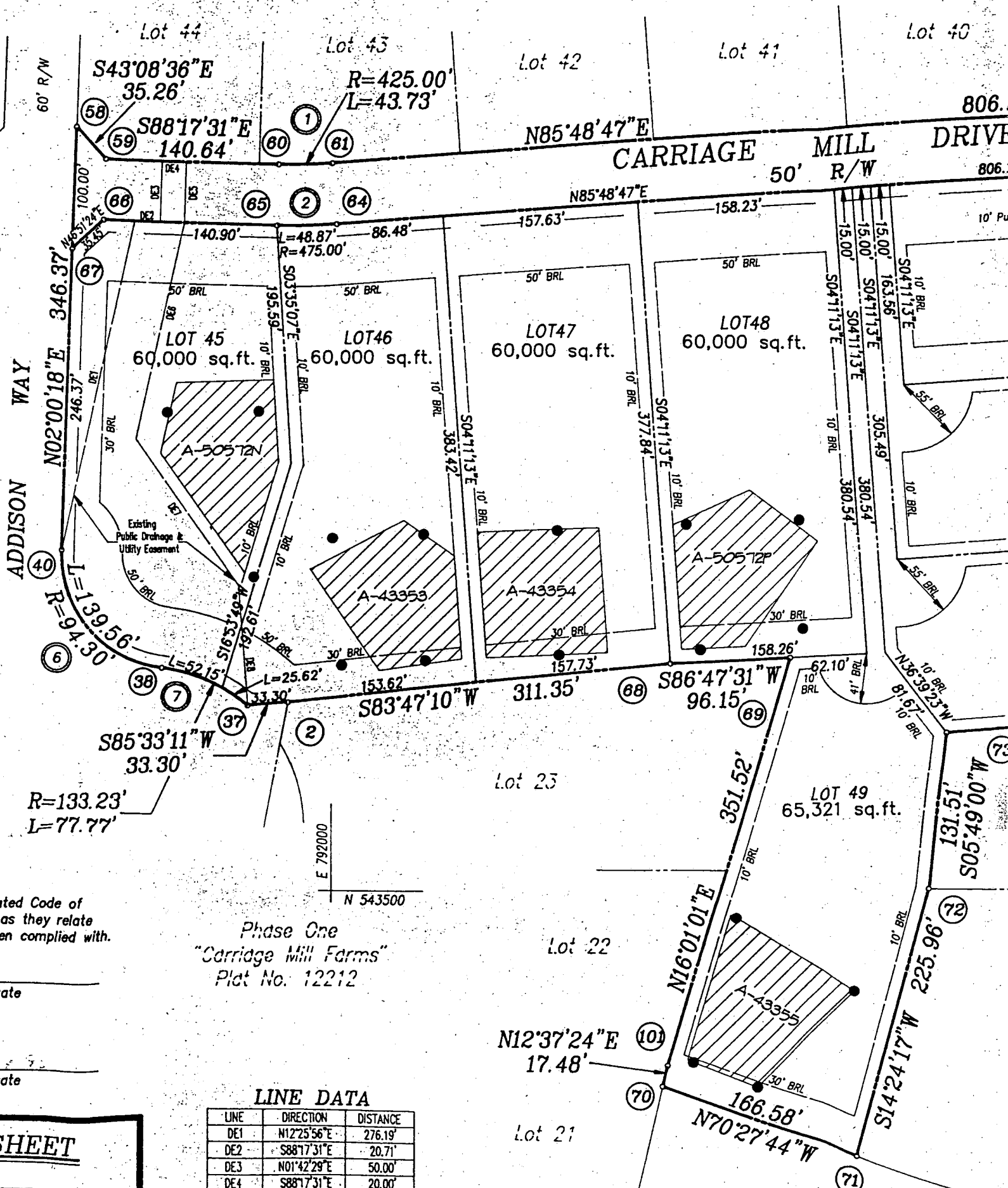
628

877

PTS
ARE NEEDED
ORTH IN

1	425.00	43.73	21.88	43.71	N88°45'38"E	05°53'42"
2	475.00'	48.87'	24.46'	48.85'	N88°45'38"E	05°53'42"
3	341.00'	420.55'	241.72'	394.40'	N58°51'22"W	70°39'42"
4	291.00'	358.88'	206.27'	336.57'	N58°51'22"W	70°39'42"
5	291.00'	266.06'	143.14'	256.89'	N02°40'03"E	52°23'09"
6	94.30'	139.56'	86.10'	127.17'	S40°23'17"E	60°45'35"
7	133.23'	77.77'	40.03'	76.68'	S66°03'46"E	43°00'20"

"Carriage Mill Farms"
Sheet 3 of 5
Phase 2



Unnotated Code of
as far as they relate
have been complied with.

Phase One
"Carriage Mill Farms"
Plat No. 12212

Date _____

Date _____

LINE DATA

LINE	DIRECTION	DISTANCE
DE1	N12°25'56"E	276.19'
DE2	S88°17'31"E	20.71'
DE3	N01°42'29"E	50.00'
DE4	S88°17'31"E	20.00'

SHEET

C1 9645 SEQUENCE NO. (MDE USE ONLY)

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

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED.
COUNTY NUMBER **A 50572 N**

ST/CO USE ONLY: DATE Received MM DD YY 8 13 DATE WELL COMPLETED MM DD YY 15 **3/18/99** 20 Depth of Well 22 **300** 26 (TO NEAREST FOOT) PERMIT NO. FROM "PERMIT TO DRILL WELL" **NO 94-2148** 28 29 30 31 32 33 34 35 36 37

OWNER **Oakhill Properties** last name first name
STREET OR RFD **Carriage Mill Drive** TOWN **Glenwood**
SUBDIVISION **Carriage Mill Farm** SECTION LOT **45**

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	2	
red shaly clay	2	15	
brown slate	15	68	
gray slate	68	85	
Sand Stone	85	86	✓
gray slate	86	130	
Quartz	230	231	
Mica	231	240	
Quartz	240	241	
Mica	241	260	
Quartz	260	262	✓
Mica	262	300	

GROUTING RECORD yes no
WELL HAS BEEN GROUTED (Circle Appropriate Box) **(Y)** **(N)**
TYPE OF GROUTING MATERIAL (Circle one)
CEMENT **(CM)** BENTONITE CLAY **(BC)**
NO. OF BAGS ^{45 46} **15** NO. OF POUNDS ^{45 46} **1500**
GALLONS OF WATER **75**
DEPTH OF GROUT SEAL (to nearest foot)
from **0** ft. to **45** ft.
(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below
(ST) **(CO)**
STEEL CONCRETE
(PL) **(OT)**
PLASTIC OTHER
MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch)! Total depth of main casing (nearest foot)
ST **6** **80**
60 61 63 64 66 70

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

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

NUMBER OF UNSUCCESSFUL WELLS: **0**
WELL HYDROFRACTURED yes no **(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 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.

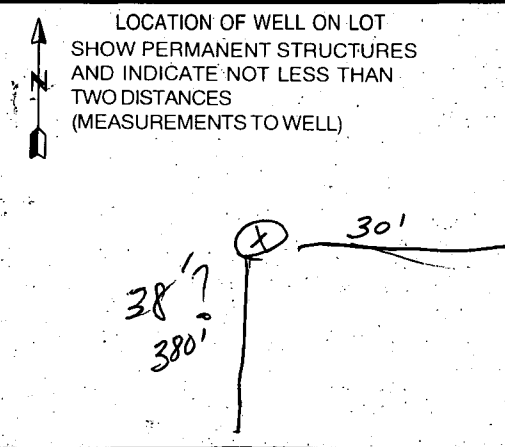
DRILLERS LIC. NO. **MWD 040**
George F. Easterday
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
LIC. NO. **MWD 501**

C 2 DEPTH (nearest ft.)
HO **28** **300**
8 9 11 15 17 21
23 24 26 30 32 36
38 39 41 45 47 51
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
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) **3**
8 9
PUMPING RATE (gal. per min.) **10**
11 15
METHOD USED TO MEASURE PUMPING RATE **Bucket**
WATER LEVEL (distance from land surface)
BEFORE PUMPING **24** ft.
17 20
WHEN PUMPING **187** ft.
22 25
TYPE OF PUMP USED (for test)
(A) air **(P)** piston **(T)** turbine
27 27 27
(C) centrifugal **(R)** rotary **(O)** other (describe below)
27 27 27
(J) jet **(S)** submersible
27 27

PUMP INSTALLED
DRILLER INSTALLED 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
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
49
(-) below } (nearest foot)
49 50 51



Side Lane

3-18-99

1230

Page _____ of _____
Date _____

Review CR MK
4/30/99

FIELD DATA SHEET

HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94 - 2148
Location of property (road) Carriage Mill Drive
Subdivision Carriage Mill Farms Lot 45 Block _____ Plat _____ Sec. _____
Well Driller G. Easterday Owner Oakhill Properties

Depth of well 300 10 GPM
Distance of measuring point (M.P.) above ground 2 FT
Static water level (S.W.L.) below M.P. 24 FT

I. High rate pumping -- reservoir drawdown

Time pump started 12:30 PM Pumping rate 15 GPM
Total time _____ to reach pumping water level 24 ft. below M.P.

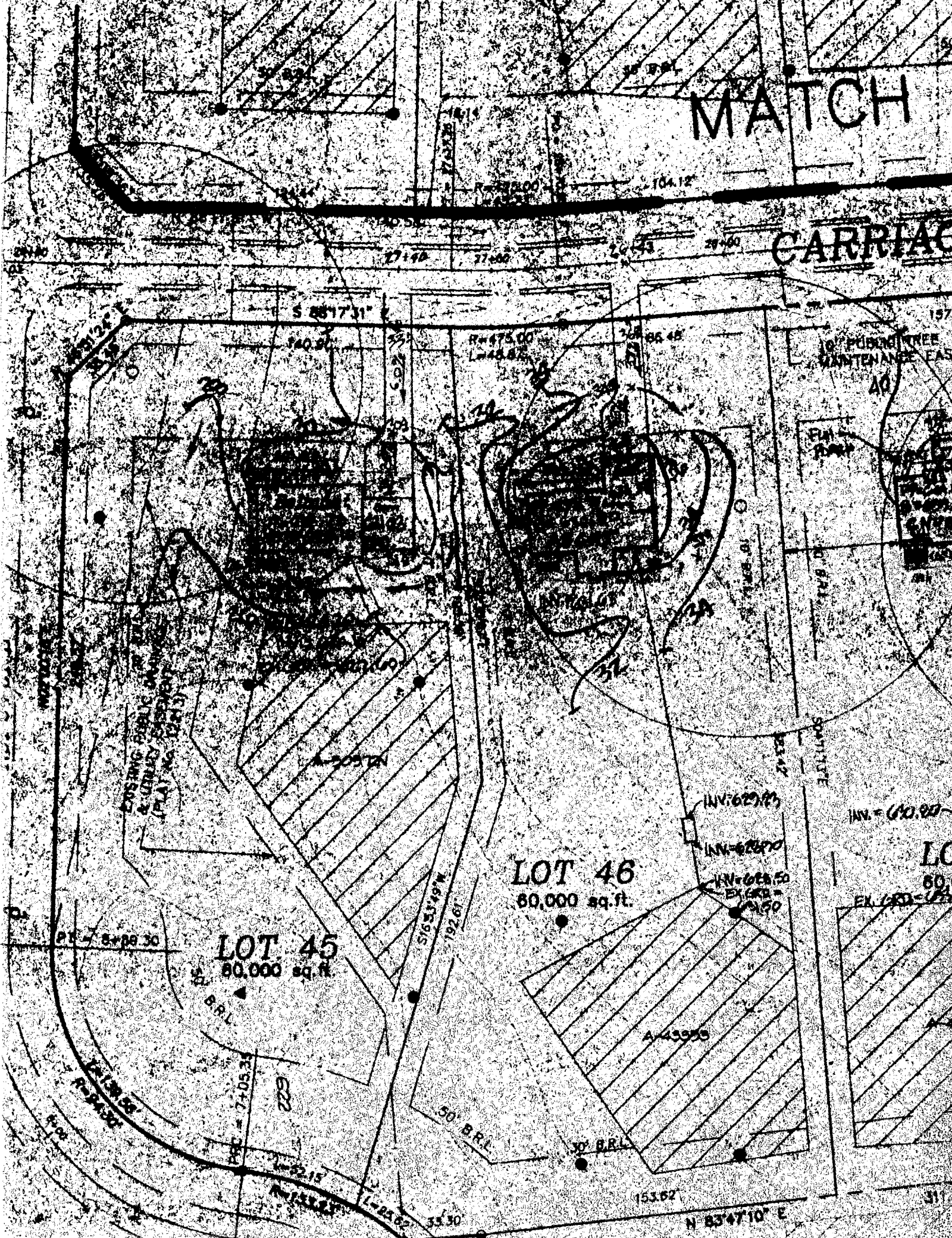
II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill gallon bucket	FLOW METER READING (if used) <u>Pump Set</u>	CALCULATED FLOW (gallons per minute)
12:45 PM	110 FT	4 Sec	290 FT	15 GPM
1:00 PM	141 FT	5 Sec	270 FT	12 GPM
1:15 PM	159 FT	5 Sec	280 FT	12 GPM
1:30 PM	170 FT	5 Sec	290 FT	12 GPM
1:45 PM	176 FT	5 Sec	290 FT	12 GPM
2:00 PM	178 FT	6 Sec	290 FT	11 GPM
2:15 PM	182 FT	6 Sec	290 FT	10 GPM
2:30 PM	183 FT	6 Sec	290 FT	10 GPM
2:45 PM	185 FT	6 Sec	290 FT	10 GPM
3:00 PM	186 FT	6 Sec	290 FT	10 GPM
3:15 PM	186 FT	6 Sec	290 FT	10 GPM
3:30 PM	186 FT	6 SEC	290 FT	10 GPM
3:45 PM	187 FT	6 Sec	290 FT	10 GPM

TESTED BY DIC

MATCH

CARRIAGE



3/1/99
LOT 45 -

well site ok
as staked

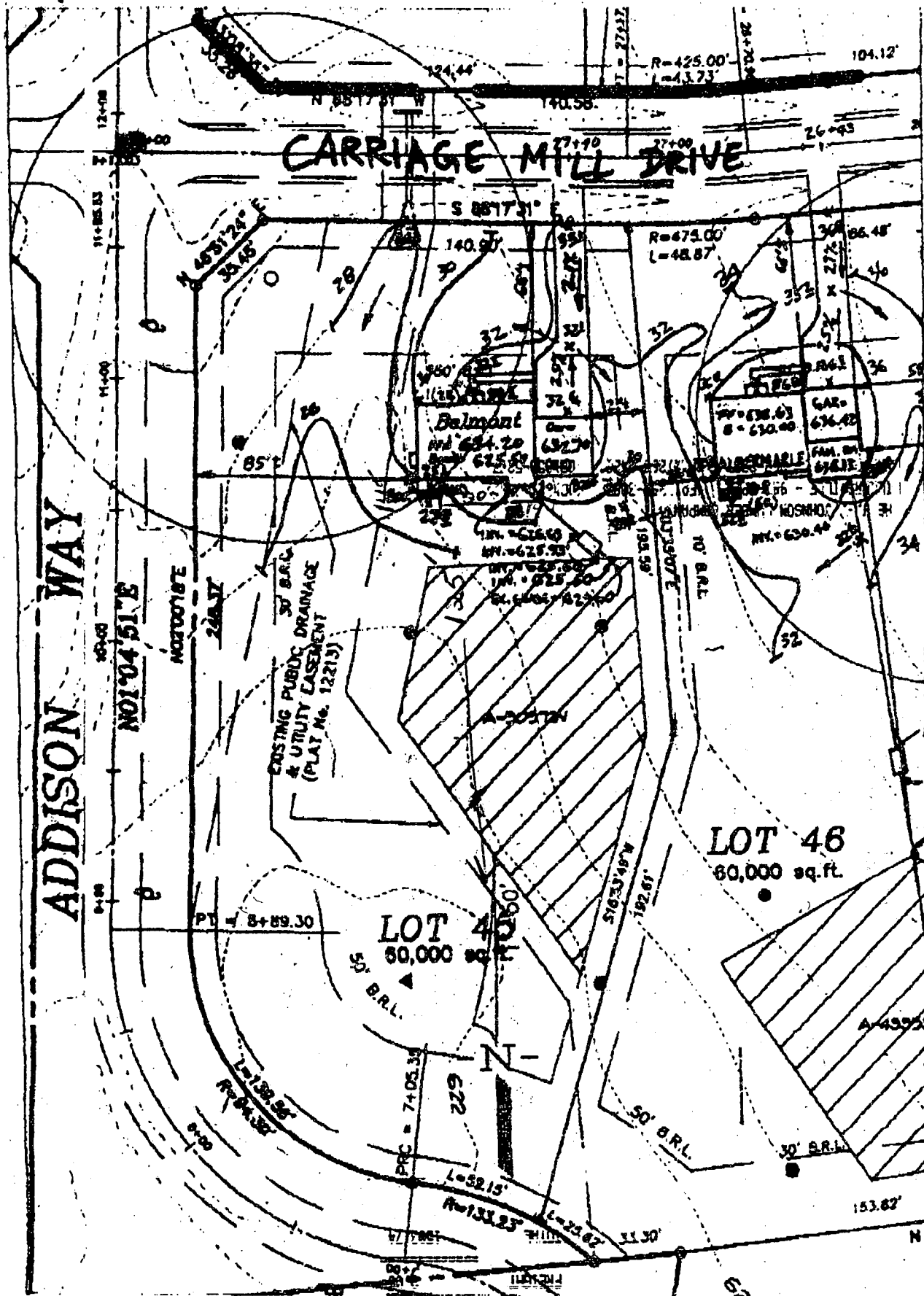
SMS

CO. HEALTH DEPAR.

FEB 1 1 1999

RECEIVED

20x14 Porch 14x12 Deck



CARRIAGE MILL FARMS

PHASE II
LOT 45

BUILDING PERMIT

DATE: 7/23/99

PROJECT NO.: 85005.22

DRAWN BY: JAZ

SCALE: 1"=50'

SEPTIC DATA

INV. OUT OF HOUSE = 626.63
 INV. OUT SEPTIC TANK = 625.95
 INV. OUT SEPTIC TANK = 625.60
 EX. ELEV. & DIST. BOX = 625.00

DESCRIPTION

R.M. MOCHI GROUP, P.C.

1125 S. 10th Ave. Millersville, MD 21774-0010
 4481 Alther Ave. Millersville, MD 21774-0010
 16120 Old National Pike
 New Market, MD 21774-0010
 P.O. Box 88
 Millersville, MD 21774-0010

7/11/01
 00031378
 Deck - 14x12
 screened porch 20x14 or as
 shown *all*