

11/22/99
C.O. 11:00 \$3.00

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

03-330621

P 512778

A 50830 0B

DISTRICT _____

DATE 10/22/1999

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXXXX~~ 410-313-2640

INDEXED

DATE SYSTEM APPROVED 11/22/99

INSPECTOR BB

K & K Excavating IS PERMITTED TO INSTALL X ALTER _____

ADDRESS 14960 Frederick Road, Woodbine, MD 21797 PHONE 410-442-1336

SUBDIVISION Brantwood LOT 25 ROAD 3100 Argent Path

PROPERTY OWNER Dorsey Homes, Inc.

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 180

TRENCHES - Trench to be 2 feet wide. Inlet 2.5 feet below original grade. Bottom maximum depth 6.5 feet below original grade. Effective area begins at 2.5 feet below original grade. 4.0 feet of stone below distribution pipe.

LOCATION - Place the distribution box 50 feet off the left (217.54') lot line and 55 feet off the front (93.84') lot line as viewed from Argent Path, Install trenches **ON CONTOUR** toward the rear lot line.

NOTES - Maintain minimum of 100 foot separation distance from wells on Lot 24 and Lot 25 to any part of septic system. No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. 10/4/99 O.K. (BB)

PLANS APPROVED BY Ronald J. Pinkley DATE 9-14-1999

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

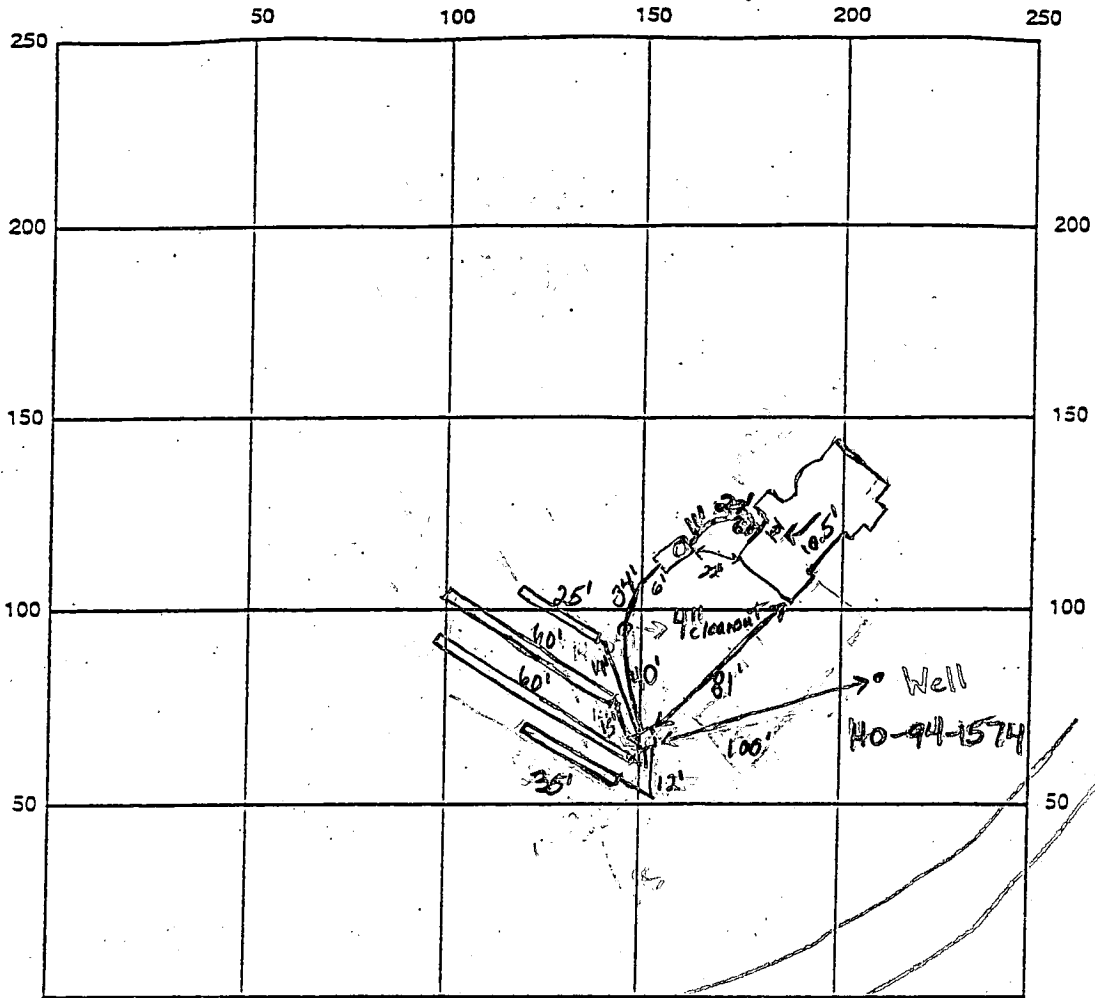
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

508300B

NOT TO SCALE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Argent Path

SEPTIC TANK LEVEL 1500 gallon CLEANOUTS _____

DISTRIBUTION BOX LEVEL _____

DRAIN FIELD/TITLE DEPTH 6.5 FT. TRENCH WIDTH 2 FT. INLET DEPTH 2.5 FT.

EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH 2x60' FT. 1x25', 1x35' (180' total)

NUMBER OF TRENCHES 4 ONE SIDEWALL BOTTOM AREA 720 SQ. FT.

DRYWALL INSIDE DIAMETER FT. EFFECTIVE DEPTH BELOW INLET FT.

ABSORBENT AREA SQ. FT.

REMARKS: 11/22/99 Home connection made. WPD done - O.K. O.K. to cover everything (BB)

DATE SYSTEM APPROVED 11/22/99 INSPECTOR B. Baker



HO. CO. DEPT. OF ENVIRONMENTAL HEALTH

ATTN: Ron

9-14-99

Revised

RE: BRANTWOOD LOT 25 DISTR. Box. E1.

FR: Brian Wacabaugh @ C.F. & S

410-381-7500 Ext. 224

Total linear feet of trench required 180 feet

Approved Septic System Plan

Howard County Health Department

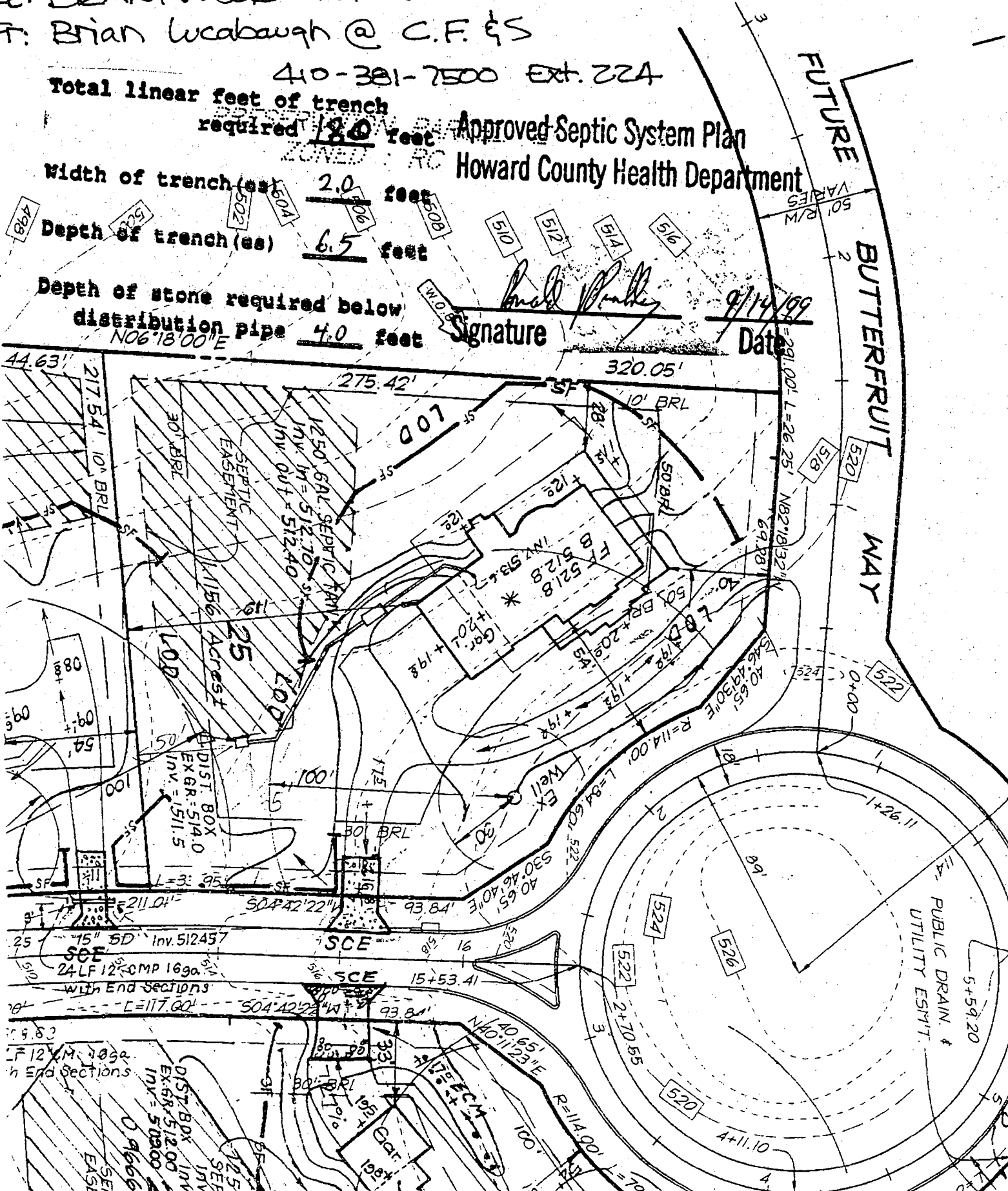
Width of trench (est) 2.0 feet

Depth of trench (est) 6.5 feet

Depth of stone required below distribution pipe 4.0 feet

*Paul P...
Signature*

9/14/99
Date



APPLICATION

PERCOLATION TESTING

A _____

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2840

DISTRICT _____

DATE 8/15/95

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 Feaga Family DORSEY HOMES, Inc

ADDRESS _____ PHONE _____

AGENT OR PROSPECTIVE BUYER Land Marketing, Inc. C/O Tim Feaga

ADDRESS 3243 Bethany Lane Ellicott City PHONE 313-8808

21042

PROPERTY LOCATION: _____

SUBDIVISION Feaga Property LOT NO. 48 52/

ROAD AND DESCRIPTION Rt 144 + Folly Quarter Rd

3170 ARGENT PATH

~~PERMIT SIGNATURE~~
~~AND RETURNED~~ 9/14/99
Serial # 120157

TAX MAP 16 + 23 PARCEL # 34 + 63

SIZE OF LOT 1 acre +/- TYPE BLDG. SFD - 4 Bdr
(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. Mark A. Reil
(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

COUNTY #

SOIL PROFILE

1142

red
brn
silt
loam

4' zone
of large
rocks

6.5' 20%
sand mixed

dark
brn
SisalM

9' brn salm
w/ pockets
of decayed
white quartz
orange white
marked

1145 1143

no
distinct
clay
layer
beign
Salm
very
micaceous

5-10%
rock/
saprotic
mix

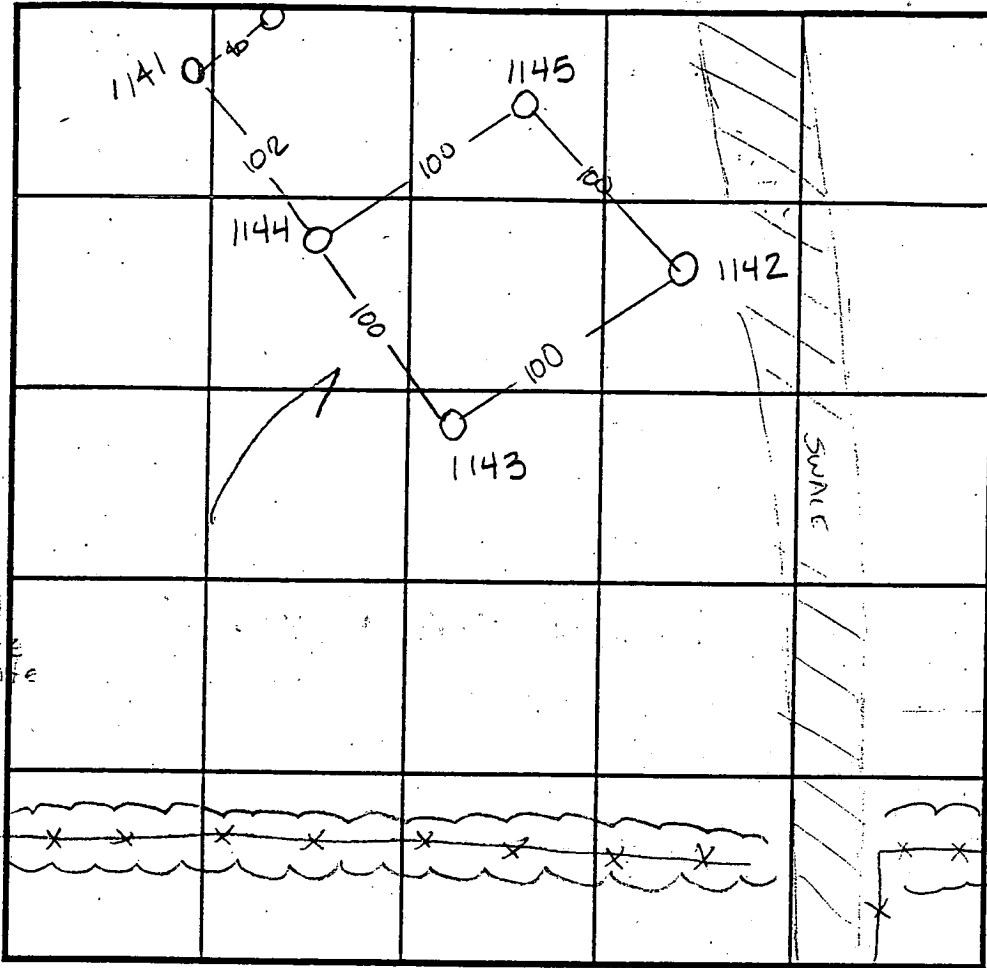
1144

orange
brn
Salm

red brn
Salm
very
micaceous

<5%
rock
zones
of pink
brn
saprotic

9010



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

141

orange
brown
Salm
micaceous

3.0' beign
brown
SisalM
5%
rock

Saprotic
mix
micaceous

12.0' 9010

all orange
10% shale
Salm

3.5' bright or
sand large
grained
white &
orange
mix - 10%
decayed
quartz

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10-11-95	1142	6' / V12	10:59	11:00 ³⁰	11:00 ³⁰	11:02 ³⁰	2min
	1145	3.5' / V12.5	11:02	11:05	11:05	11:08	3min
	1144	3' / X13	10:11	10:12	10:12	10:13 ³⁰	1 1/2 min
	1144	7' / V13	10:09 ³⁰	11:11	11:11	11:16	5min
	1143	Visual	see profile		—		OK
	141	Visual	to 2.5 -		see profile		OK
5-2-97	9010	Visual	to 12.0 -		see profile		OK

REMARKS wet season - ALL HOLES DUG PER STAKE

TYPE OF SOIL

TESTED BY Amy McMillan

ALSO PRESENT Mark Reich

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

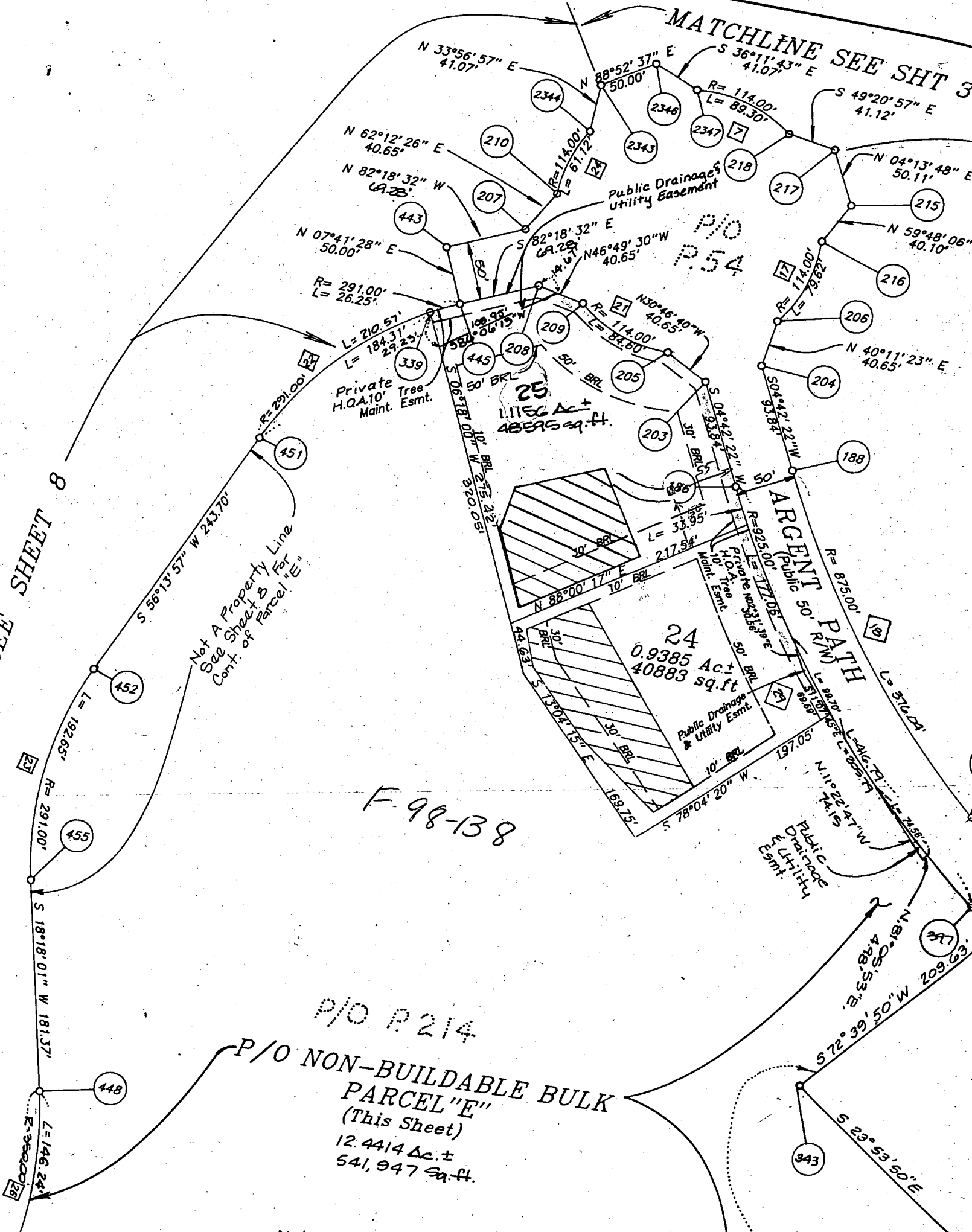
INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT/BEDROOM

SEE SHEET 8

MATCHLINE SEE SHT 3



F-98-138

P/O P 214

P/O NON-BUILDABLE BULK
 PARCEL "E"
 (This Sheet)

12.4414 Ac. ±
 541,947 sq. ft.

Not A Property Line
 See Sheet 8 For
 Cont. of Parcel "E"

P/O P 54

ARGENT Public 30' R/W Path
 R=835.00'
 L=316.04'

Public Drainage & Utility Esmt.

Private H.O.A. 10' Tree Maint. Esmt.

Public Drainage & Utility Esmt.

Private Tree Maint. Esmt.

Public Drainage & Utility Easement

28
 R=350.00'
 L=146.24'

29
 L=192.65'
 R=291.00'

448

452

455

R=291.00'
 L=26.25'

N 07°41'28" E
 50.00'

N 62°12'26" E
 40.65'

N 82°18'32" W
 69.28'

N 33°56'57" E
 41.07'

N 88°52'37" E
 50.00'

S 36°11'43" E
 41.07'

S 49°20'57" E
 41.12'

N 04°13'48" E
 50.11'

N 59°48'06" W
 40.10'

N 40°11'23" E
 40.65'

N 30°46'40" W
 40.65'

R=114.00'
 L=84.60'

N 85°00'17" E
 10' BRL

N 88°00'17" E
 10' BRL

N 85°00'17" E
 10' BRL

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R=114.00'
 L=79.62'

R=114.00'
 L=84.60'

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 L=84.60'

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R=114.00'
 L=84.60'

N 81°05'18" E
 4.98-53.2'

S 72°39'50" W
 209.62'

S 29°53'50" E

S 29°53'50" E

S 29°53'50" E

S 29°53'50" E

S 29°53'50" E

343

397

188

204

216

218

217

215

206

205

203

209

208

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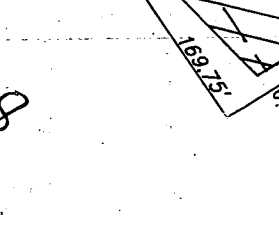
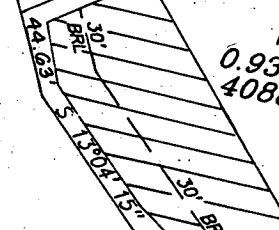
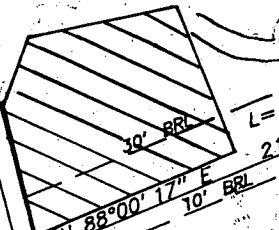
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34

35



HOWARD COUNTY HEALTH DEPARTMENT
Bureau of Environmental Health
3535-N Ell Hill Drive
Ellicott City, MD 21043
461-8933

APPLICATION FOR FITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation
Replacement

Receipt # _____
Date _____

Name of Installer Willoughby Plumbing

Telephone 410-781-7051

License Number #6992
Certified Well Pump Installer _____

Well Driller _____ Registered Plumber

Name of Property Owner Nantucket Homes, Dorsey
Subdivision BRENWOOD Lot # 25
Site Address 3100 ARGENT PATH

Telephone _____
Well Tag # HO-94-1574

- Pump**
- Type
 - Deep well jet _____
 - Shallow well jet
 - Submersible
 - Make JACUZZI
 - Model # _____
 - Capacity _____ GPM
 - Pump exceeds well capacity Yes _____ No
 - If Yes, is low pressure cutoff switch installed? Yes _____ No _____
 - What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors Cable guards Other TAPE

- Motor**
- Horsepower 1/2 HP
 - RPM _____
 - Voltage _____
 - 110 _____
 - 220

- Fitless Adapter**
- Make HARVARD
 - Model # _____
 - Depth 4 FT

- Tank**
- Capacity 40 gal
 - Pressure relief valve? yes

- Piping**
- Type CROSS LINE
 - Size 1"
 - NSF and/or BOCA Code approved yes
 - Depth of supply line 4 FT

- Well data**
- Depth 200 ft.
 - Yield 1 GPM
 - Static water level 28 ft.
 - Will water supply be disinfected by installer? _____

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: [Signature]

Date: 3/17/00

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

HO-218

11/22/99-WPI OK (BB) SRK

C1-05196 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 A50830

ST/CO USE ONLY DATE Received 7 10 98

DATE WELL COMPLETED 7 6 98

Depth of Well 200 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-1574

OWNER Liparini John STREET OR RFD Argent Path TOWN ELlicott City SUBDIVISION Brantwood SECTION I LOT 25

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. Includes handwritten entries: BROWN SHALE 0-49, BLUE SLATE 49-200.

WATER AT 140-152

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (Circle one) CEMENT (M) BENTONITE CLAY (BC) NO. OF BAGS 15 NO. OF POUNDS 1410 GALLONS OF WATER 60 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 59 ft.

CASING RECORD

MAIN CASING TYPE (ST) Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 60

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

SCREEN RECORD

screen type or open hole (ST) (BR) (HO) (PL) (OT)

DEPTH (nearest ft.)

Table with columns: 1-21, 23-36, 38-51. Includes handwritten entries: 140, 59, 200.

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) (E.R.O.S.)

TELESCOPE CASING LOG INDICATOR OTHER DATA

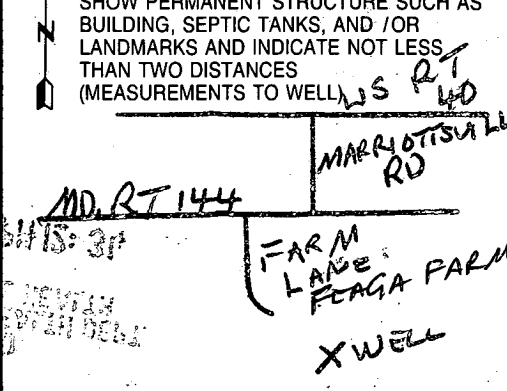
C 3 PUMPING TEST

HOURS PUMPED (nearest hour) 72 PUMPING RATE (gal. per min.) 7 METHOD USED TO MEASURE PUMPING RATE TIME WATER LEVEL (distance from land surface) BEFORE PUMPING 28 ft. WHEN PUMPING 110 ft. TYPE OF PUMP USED (for test) (S) submersible

PUMP INSTALLED

DRILLER WILL INSTALL PUMP (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 1 (nearest foot) (-) below 50 51

LOCATION OF WELL ON LOT



NUMBER OF UNSUCCESSFUL WELLS: 0

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 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. 1 MW D 139 Rabut Elaine DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 MW D 536 Rabut Elaine

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

B 1 9715 SEQUENCE NO. (MDE USE ONLY)
1 2 3 6
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

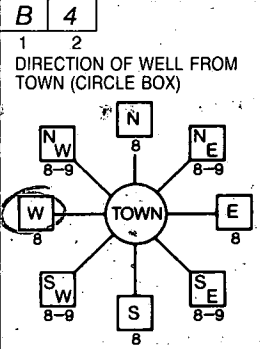
STATE OF MARYLAND
PERMIT TO DRILL WELL
please print or type

STATE PERMIT NUMBER
HO-94-1574
70 fill in this form completely 79

Date Received (APA) 05 28 98
8 MM DD YY 13
OWNER INFORMATION
Liparini John
15 Last Name Owner First Name 34
8835-P Columbia 100 Parkway
36 Street or RFD 55
Columbia, MD 21045
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
Howard
8 COUNTY 21
Feaga Property
23 SUBDIVISION 42
SECTION 44 46 LOT 25 48 50
Ellicott City
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) 3 M I 73 76 77 78

DRILLER INFORMATION
Robert L. Cline M W D 139
76 Driller's Name License No. 81
Cline & Duvall, Inc.
Firm Name
8093 Hillmark Ct., Frederick, MD 21704
Address
Signature: Robert L. Cline Date: 5/21/98



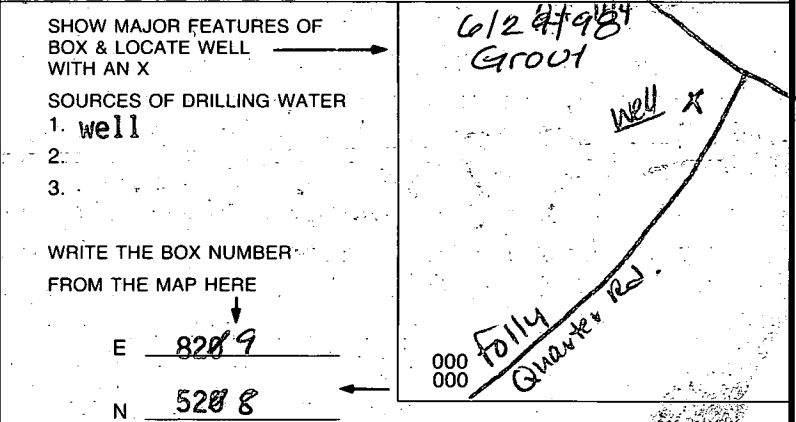
Argent Path
Folly Quarter
11 NEAR WHAT ROAD 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) [W] [E] [S] [N]
34 2200 37 DISTANCE FROM ROAD FT 38 39
ENTER FT OR MI
TAX MAP: BLK: PARCEL

B 2 WELL INFORMATION
1 2 APPROX. PUMPING RATE 5
(GAL. PER MIN.) 8 12
AVERAGE DAILY QUANTITY NEEDED 300
(GAL. PER DAY) 14 20

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL
Howard CO A50830
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S → 41
DATE ISSUED 6/10/98 AMcMullo 6/10/99
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 528 000 EAST GRID 829 000
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 250 FEET
24 28
APPROXIMATE DIAMETER OF WELL 6 INCH
NEAREST



METHOD OF DRILLING (circle one)
BORED (or Augered) JETTED Jettied & 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 DEEPEAN 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)
APPROX. PERMIT NUMBER 54 G A P 63
FORCE AM WRITE INITIALS IN BOX PERMIT No. HO-94-1574
67 68 70 71 72 73 74 75 76 77 78 79

6/10/98

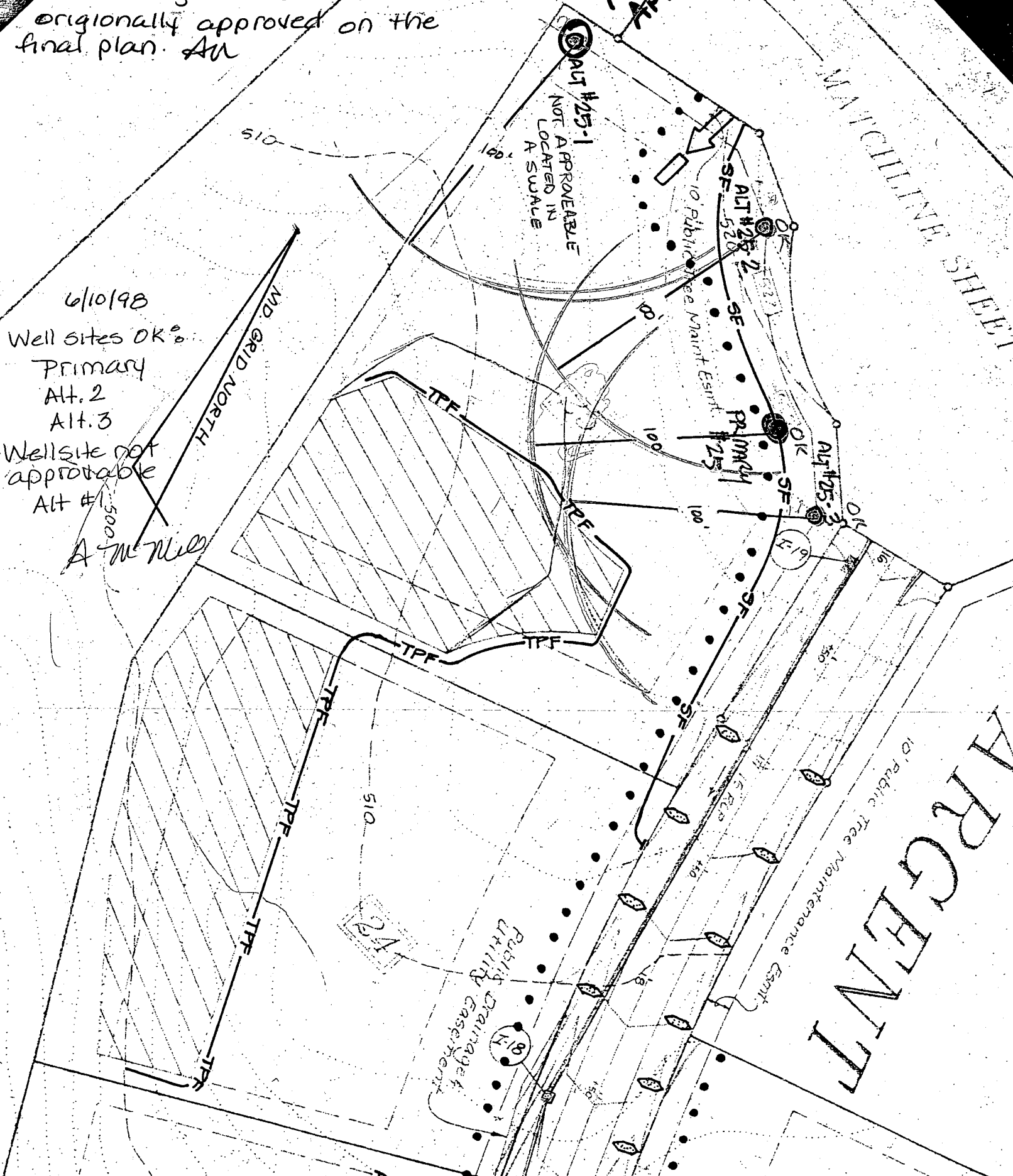
Septic esmit on this plan not shown as approved on Perc Cert. Engineer informed & will adjust to what was originally approved on the final plan. AN

NOT APPROVED

ALT #25-1 NOT A POREABLE NOT LOCATED IN A SWALE

6/10/98
Well sites OK:
Primary
Alt. 2
Alt. 3
Well site not approvable
Alt #1

A Mill



MANICULINE SHEET 1

ARGENT