

4/8/92 ASPT
4/9/92 3 PM

PERMIT

05-412072

P 47489

SEWAGE DISPOSAL SYSTEM

A 37510

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

DISTRICT 5th

INDEXED

DATE 9/18/91

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

461-9933

DATE SYSTEM APPROVED 4/9/92

INSPECTOR M. Rifkin

Fogle's Septic Service, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS 558 Obrecht Rd., Sykesville, Maryland 21784 PHONE 795-5670

SUBDIVISION Chapel Woods II LOT 13 ROAD 11840 Chapel ^{Estates} ~~Woods~~ Drive

PROPERTY OWNER Mr. & Mrs. David Dresner

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 180

TRENCHES - 180 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 3.0 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 - Start the first trench 235 feet from the front lot line and 75 feet from the right lot line. As seen when facing the lot from Chapel Woods Drive. Run trenches on contour in both directions.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. ^{OK 5/14/91} _{Rifkin}

PLANS APPROVED BY Mark Rifkin cm DATE 3/19/91

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

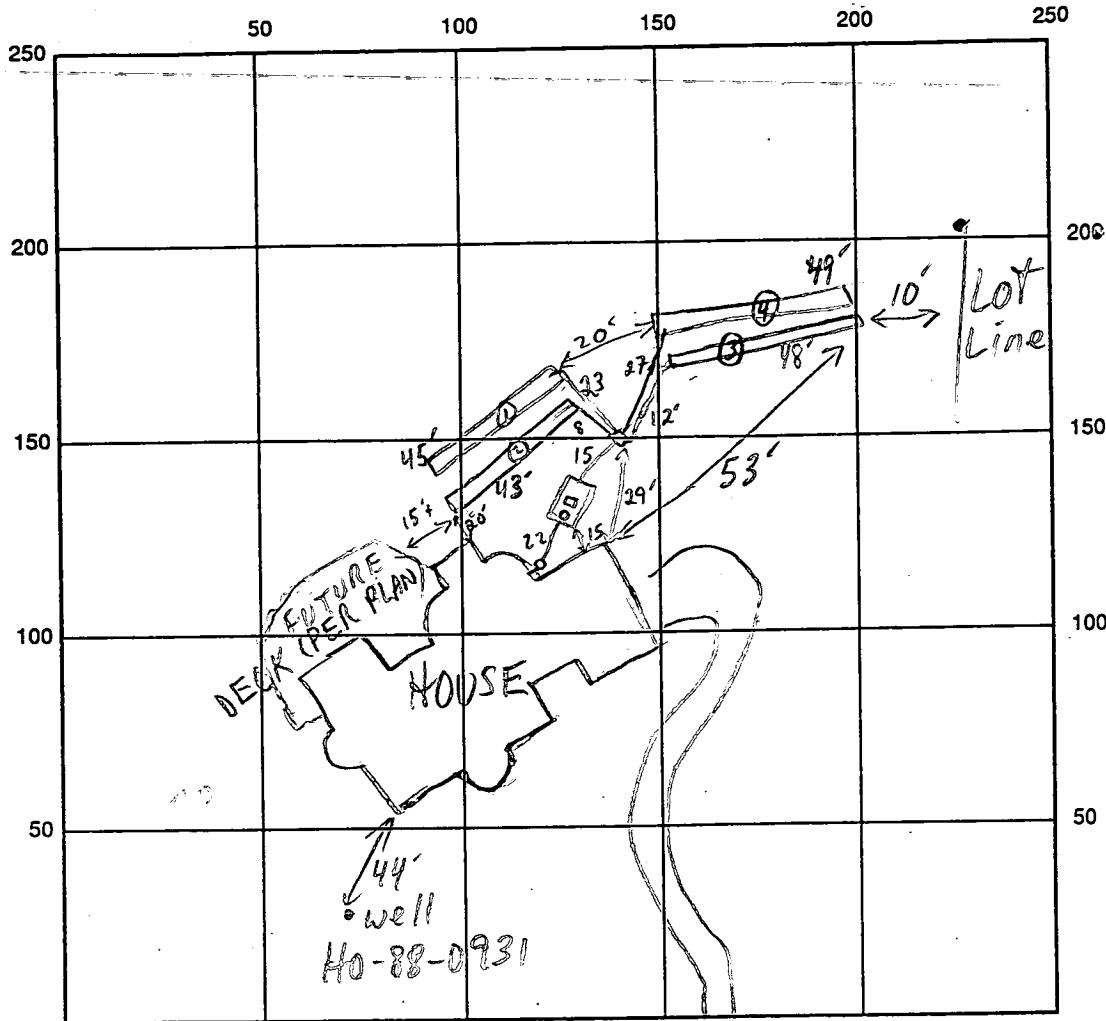
PERMIT VOID AFTER TWO YEARS

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 37510



CHAPEL WOODS DR INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE INLINE @ HOUSE OK

SEPTIC TANK LEVEL 1250 GAL - OK

CLEANOUTS S.T.: 8" PVC & MANHOLE

DISTRIBUTION BOX LEVEL OK - BAFFLE IN

DRAIN FIELD/TITLE DEPTH $\frac{112}{7} \frac{123}{7} \frac{134}{7} \frac{145}{7}$ FT.

TRENCH WIDTH 2 FT.

INLET DEPTH $\frac{112}{3} \frac{123}{3} \frac{134}{3} \frac{145}{3}$ FT.

EFFECTIVE GRAVEL DEPTH $\frac{112}{4} \frac{123}{4} \frac{134}{4} \frac{145}{4}$ FT.

TOTAL LENGTH $\frac{112}{481} \frac{123}{481} \frac{134}{481} \frac{145}{481}$ FT.

NUMBER OF TRENCHES 4

ONE SIDEWALL/BOTTOM AREA 196 SQ. FT.

DRYWALL INSIDE DIAMETER _____ FT.

EFFECTIVE DEPTH BELOW INLET _____ FT.

ABSORBENT AREA 740 SQ. FT.

REMARKS: 4/8/92 #1 CLARIFIED SOME DETAILS TO INSTALLER - NO DRASTIC CHANGES MR
 4/8/92 #2 3" ± FILL OVER HIGH PART OF SDA; CLARIFIED SYSTEM DESIGN & OPERATION TO OWNER; OK TO CONTINUE W/ TRENCHES MR
 4/9/92 OK TO FINISH STONE & COVER

DATE SYSTEM APPROVED 4/9/92

INSPECTOR M. Rifkin

A 37510

SUBDIVISION: Chapel Woods II
Chapel Woods Dr

LOT NUMBER: 73

DRY WELL OR DRY WELL AND TRENCH

_____ sq. ft./bedroom

| | <u>Septic Tank</u> | <u>Minimum Total Square Feet</u> |
|-----------|--------------------|----------------------------------|
| 3 bedroom | 1000 gallon | _____ |
| 4 bedroom | 1250 gallon | _____ |
| 5 bedroom | 1500 gallon | _____ |

Inlet _____ feet below original grade.

Bottom maximum depth _____ feet below original grade.

Effective area begins at _____ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5-foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with _____ feet of stone below distribution pipe.

TRENCHES

180 sq. ft./bedroom

Trench to be 2 wide.

Inlet 3.0 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.

45 LINEAR FT PER BEDROOM
4
180

- NOTE:
- (1) No trench to exceed 100 feet in length.
 - (2) If more than one trench used, a distribution box is required.
 - (3) Trenches to be installed on level ground.
 - (4) Call for inspection of trench before gravel is installed.
 - (5) Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank and drywell.
 - (6) If a garbage disposal is used, increase septic tank capacity by 50% and increase absorbent sidewall area by 22%.

LOCATION: START THE FIRST TRENCH 235 FT FROM THE FRONT LOT
LINE AND 75 FT FROM THE RIGHT LOT LINE. AS SEEN
WHEN FACING THE LOT FROM CHAPEL WOODS DR. RUN
TRENCHES ON CONTOUR IN BOTH DIRECTIONS.
7-21-89. S-Allen 1

REVISED MR 3/19/91

APPLICATION

SEWAGE DISPOSAL TESTING

A 37510

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P _____

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P. O. BOX 473 ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 992-2330

DISTRICT _____

DATE 8/13/86

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 J.J.M. Partnership Mr. & Mrs. David ~~Dresner~~ Dresner

ADDRESS 5570-201 Sterrett Place PHONE 730-7272
Columbia, Maryland 21045 740-4466

PROPERTY LOCATION: LOT 17 ON PRELIM

SUBDIVISION Chapel Woods II LOT NO. 13 LOT 13 on 2nd Prelim

ROAD AND DESCRIPTION West side of Middle Patuxent; North of Route 108
(11840 Chapel Woods Drive)

SIZE OF LOT 3.35 ac. TYPE BLDG. residential
(NUMBER OF BEDROOMS) _____

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.

John Mikalasko
(SIGNATURE OF APPLICANT)

APPROVED BY Fredrick Abel FOR Deep trenches DATE 7-21-89
Structural Repair

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

BLDG. PERMIT SIGNED
AND RETURNED 5/6/91
Serial # 37612-
SFD

THIS IS NOT A PERMIT

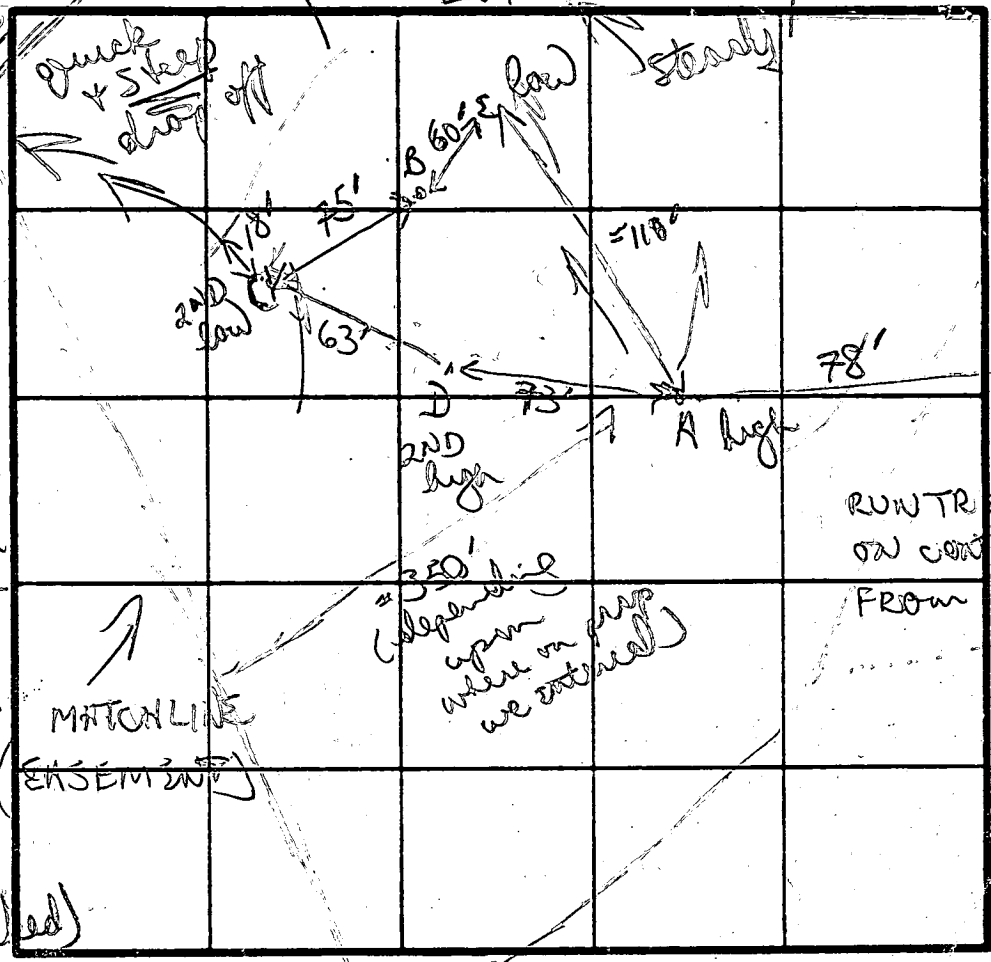
runway

LOT 3

LOT 12

D
SOIL PROFILE

Red/yellow
brown silty
loam (some
clay)
4 1/2' changes
to powdery
orange
tan brown
silty loam
w/ 10%
small red
rock frags
↓
12 1/2'



orange/brown
silty gravelly
loam
↓
silty rocky
loam (small
frag) frags
↓ 20%
rocky bottom

A
orange gravelly
silty clay
loam (small pebbles)
↓
5 1/2'

changes to
rocky gravelly
(sandstone/crinity
(small frags)
20%
↓
1 1/2' rock
bottom

c
similar to
D but w/
a few large
rock frags
from 4'

↓
10 1/2'

| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME | |
|--------|----------|----------|---------------------------|------|----------------|------|--------|--|
| | | | START | STOP | START | STOP | | |
| | D | 3 1/2 S | 1058 | 1101 | 1107 | 1105 | 4 MIN | |
| 9/5/86 | | 8' M | 1051 | 1052 | 1052 | 1054 | 2 MIN | |
| | | 12 1/2 | bottom (see profile) | | | | | |
| | A | 3' D | 1145 | 1146 | 1146 | 1136 | 6 MIN | |
| | | 6 1/2 D | 1125 | 1126 | 1126 | 1128 | 2 MIN | |
| | | 11 1/2 D | hard bottom (see profile) | | | | | |
| | C | 4 | 1108 | 1109 | 1109 | 1111 | 2 MIN | |
| | | 12 | bottom (see profile) | | | | | |
| | E | 3 1/2 S | 1202 | 1212 | 1212 | 1243 | 21 MIN | |
| | | 10 1/2 D | rocky to hard bottom | | | | | |
| | B | 11' D | VISUAL (see profile) | | | | | |

↓ 20%
rocky bottom
11' D
E

silty/clay
(chunky &
gritty)
-4'
layers small
rock frags
↑ to larger
rock
frags 25%

shallow system better because of rock ↑ with depth
REMARKS orange red silty loams 4-5' gravelly rock to lge frags
TYPE OF SOIL (up to 25%) in some places

TESTED BY B Dupen ALSO PRESENT Eric, Sonny, Harish
Dulcet 3 1/2 MAX 5 1/2 180 1/2 / 30 / ROOM X = 2 MIN

HOWARD COUNTY
PERMIT APPLICATION

SERIAL NUMBER
37612

DEPARTMENT OF INSPECTIONS, LICENSES & PERMITS
 3430 COURT HOUSE DRIVE, ELICOTT CITY, MARYLAND 21043

BUILDING ADDRESS (HOUSE NO., STREET, TOWN OR AREA) **Woods**
11840 CHAPEL ~~DRIVE~~ DRIVE
MARYLAND 21029

GRADING/SEDIMENT CONTROL YES NO **SDP #**

LOT NO. **13** PARCEL NO. **20023** SEC. **2** AREA **13** BLOCK NO. **13** LIBER. **13** FOLIO **13**

DESCRIPTION OF WORK AUTHORIZED
BUILDING A NEW SINGLE FAMILY DWELING, WITH 2 STORIES, 6'6" MIN. HT/CORNER BOARDS CARPENTRY, PATIO & DECK.

SUB DIVISION **CHAPEL WOODS II** ZONE **R** ZONE MAP **29** ELEC. DIST. **5** CENSUS TR. **605101**

| SIZE OF BLDG. | FRONT | DEPTH | HEIGHT |
|---------------|-------|-------|--------|
| | | | |
| | | | |
| | | | |

OWNER'S NAME AND ADDRESS **MR & MRS. DAVID DRESNER** PHONE NO. **(301) 730-7272**
10065 COTTON HILL LANE
COLUMBIA, MD 21046

| TYPE OF BLDG. | AREA | VOLUME | ROOF |
|---------------|------|--------|------|
| | | | |
| | | | |
| | | | |

OCCUPANT'S NAME AND ADDRESS **MR & MRS DAVID DRESNER** PHONE NO. **(301) 224-2911**
SAME

| FOOTINGS | FOUNDATION | S. WALLS |
|----------|------------|----------|
| | | |
| | | |

ARCHITECT OR ENGINEER'S NAME AND ADDRESS **S & F ARCHITECTS** PHONE NO. **(301) 224-2911**
415 N CHARLES STREET
BALTIMORE, MD 21201

UTILITIES
 WATER WELD SEWER SEPTIC GAS ELECTRICITY TYPE OF HEAT AC

CONTRACTOR'S NAME AND ADDRESS **OUT TO BID** PHONE NO.

I have carefully examined and read this application and know the same is true and correct, and that in doing this work, all provisions of Howard County Ordinances and the State Laws of Maryland will be complied with, whether specified or not; and I will notify the Bureau of Inspections, and Permits twenty-four hours in advance when I am ready for the inspections called for elsewhere in this application; and that no work shall be covered up until such inspections have been complied with.

EXISTING USE **VACANT LOT** PROPOSED USE **RESIDENCE**

OWNER REP SIGNATURE **4.25.91** DATE
OWNER REP TITLE

EST. CONSTRUCTION COST **\$500,000.00** LICENSE NUMBER PERMIT FEE

W/S CODE **FOR OFFICE USE ONLY**

DISTANCE IN FEET FROM R/W LINE TO FRONT BUILDING LINE _____
 SIDE YARD _____
 (DISTANCE IN FEET FROM SIDE BLDG. LINE TO SIDE PROPERTY LINE)
 DISTANCE IN FEET FROM SIDE STREET R/W LINE _____
 TO SIDE BUILDING LINE _____
 DISTANCE IN FEET, REAR YD. REQUIRING SET _____
 BACK _____ (CORNER LOT ONLY)
 CONDITIONS (IF ANY) _____ SDP # _____

| FUNCTION | DATE | SIGNATURE APPROVAL |
|-------------------|---------------|--------------------|
| ZONING/PLANNING | | |
| SHA | | |
| SEDIMENT/GRADING | | |
| BUILDING OFFICIAL | | |
| WATER & SEWER | | |
| HEALTH DEPT. | 5/6/91 | B. Hodge |
| FIRE PROTECTION | | |
| STORM WATER MGMT | | |

Checks payable to **DIRECTOR OF FINANCE OF HOWARD COUNTY**

CAUTION
 To begin construction before a permit placard has been issued and displayed on the job is a violation of the law.
 Use and occupancy permit must be applied for two weeks before it will be issued.

APPROVED _____ DATE _____

IMPORTANT: PLEASE SHOW ZIP CODES AND AREA CODES WHEREVER REQUIRED.

Distribution of Copies:
 White - Building Official
 Green - Planning & Zoning
 Yellow - Engineering
 Pink - Health Dept.
 Gold - S.M.A.

B 1 **8709** SEQUENCE NO. (DP USE ONLY)
 (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
40-88-0931
 fill in this form completely

Date Received (APA) **061689**
 OWNER INFORMATION
J. J. M. Inc.
 15 Last Name 13 Owner 13 First Name 34
5510 S. FERRETT PLACE
 36 Street or RFD 55
COLUMBIA 57 Town 70 State 72 **MD 21044** 76 Zip 76

B 3 LOCATION OF WELL
HOWARD 8 COUNTY 21
CHAPPEL WOODS II 23 SUBDIVISION 42
 SECTION 44 46 LOT **13** 48 50
CHARKSVILLE 52 NEAREST TOWN 71
 MILES FROM TOWN (enter 0 if in town) **3** 73 76 77 78 MI

DRILLER INFORMATION
 Driller's Name **Joseph L. Mayne** 77 License No. 80 **238**
 Firm Name **Joseph L. Mayne Well Drill Inc**
 Address **5512 RIDGE RD. 114. HIKY 2177**
 Signature **Joseph L. Mayne** Date **6/14/89**

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

 NEAR WHAT ROAD **CHAPPEL WOODS DR.** 11 30
 DISTANCE FROM ROAD **80** 34 37 FT
 ENTER FT or MI **FT** 38 39

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 COUNTY NAME **HOWARD** COUNTY NO. **A-37510**
 STATE SIGNATURE _____ INSERT S 41
 DATE ISSUED **072189** **Sally Abel** 48 CO SIGNATURE 01-20-90 EXP. DATE
 NORTH GRID **509000** 50 55 EAST GRID **0819000** 57 63

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

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

APPROXIMATE DEPTH OF WELL **300** 24 28 FEET

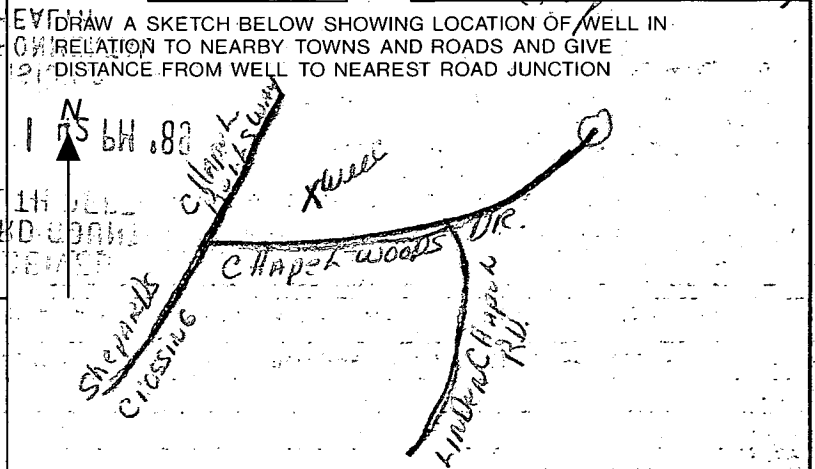
APPROXIMATE DIAMETER OF WELL **E** NEAREST INCH

METHOD OF DRILLING (circle one)
 BORED (or Augered) JETTED Jetted & DRIVEN
 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)
 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
 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY
 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. (OEP USE ONLY)
 APPROP. PERMIT NUMBER _____ 54 GAP _____ 63
 FORCE **SA** WRITE INITIALS IN BOX PERMIT No. **40-88-0931** 70 71 72 73 74 75 76 77 78 79

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 **82619**
 N **57609**
 000 000
 (Tag on site 11)



SPECIAL CONDITIONS

C1 **1065** SEQUENCE NO. (DENV USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
 COUNTY: **A-37510**
 NUMBER: **A-37510**

ST/CO USE ONLY
 DATE Received: [] [] [] [] [] []
 DATE WELL COMPLETED: **11/07/99**

Depth of Well: **225**
 (TO NEAREST FOOT)

PERMIT NO.
 FROM "PERMIT TO DRILL WELL"
40-88-0931

OWNER: **JTA TNC**
 last name: **CHADEL WOODS DA** first name: **CHADEL WOODS**
 STREET OR RFD: **CHADEL WOODS II** TOWN: **CRANFORD**
 SUBDIVISION: **CHADEL WOODS II** SECTION: **13** LOT: **13**

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 | |
| SAND | 0 | 24 | |
| GRAY MUD ROCK | 24 | 225 | |

DRY WELL 365'
 FILLED IN WITH CEMENT DRILLING MATERIALS

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle appropriate box)
 YES NO
 TYPE OF GROUTING MATERIAL:
 CEMENT BENTONITE CLAY
 NO. OF BAGS: **7** NO. OF POUNDS: **650**
 GALLONS OF WATER: **10**
 DEPTH OF GROUT SEAL (to nearest foot):
 from **0** ft. to **24** ft.

CASING RECORD
 casing types insert appropriate code below:
 ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER

MAIN CASING TYPE: **ST**
 Nominal diameter top (main) casing (nearest inch): **4**
 Total depth of main casing (nearest foot): **225**

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

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

C2
 DEPTH (nearest ft.)
 A C H S C R E E N
 1 **11** **09** **15** **025**
 2 [] [] [] [] [] [] [] []
 3 [] [] [] [] [] [] [] []
 SLOT SIZE 1: [] 2: [] 3: []
 DIAMETER OF SCREEN (NEAREST INCH): [] [] [] []
 from [] to []

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

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)
 T (E.R.O.S.) [] [] [] []
 W Q [] [] [] []
 TELESCOPE CASING LOG INDICATOR OTHER DATA

C3
PUMPING TEST
 HOURS PUMPED (nearest hour): **2**
 PUMPING RATE (gal. per min. to nearest gal.): **15**
 METHOD USED TO MEASURE PUMPING RATE: **Direct**
 WATER LEVEL (distance from land surface):
 BEFORE PUMPING: **17**
 WHEN PUMPING: **134**
 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 WILL INSTALL PUMP YES NO
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE
 TYPE OF PUMP INSTALLED: []
 PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: []
 CAPACITY: GALLONS PER MINUTE (to nearest gallon): [] [] [] []
 PUMP HORSE POWER: [] [] [] []
 PUMP COLUMN LENGTH (nearest ft.): [] [] [] []
 CASING HEIGHT (circle appropriate box and enter casing height):
 + above } LAND SURFACE (nearest foot)
 - below } [] [] [] []

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)
 See Attached Well Location

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 IDENT. NO.: **228**
 DRILLERS SIGNATURE: **[Signature]**
 SITE SUPERVISOR (sign of driller or journeyman responsible for sitework if different from permittee): []

HAPEL WOODS II

Drawing: ROAD

Fri Nov 10 12:06:25 1989

EXISTING WELL LOCATIONS

LISTING OF CURRENTLY SET COORDINATE POINTS

| Point | Coordinates | Elevation | Desc / Type |
|-------|------------------------------|-----------|-----------------------|
| 10013 | N 509582.360 E 819993.817 | . | Well (Lot-13) CPNT |
| 10010 | N 509708.039 E 820769.688 | . | Well (Lot-10) CPNT |
| 10009 | N 509759.416 E 820927.058 | . | Well (Lot-9) CPNT |
| 10008 | N 509942.705 E 821097.558 | . | Well (Lot-8) CPNT |

LOT 11) WELL CAME IN @ ORIG. POINT STAKED BY (LOT 11)
REIMER, MUGGE ASSOC.

LOT 12 - TWO DRY HOLES - TO DATE

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

Refer to the 1983 HARTLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

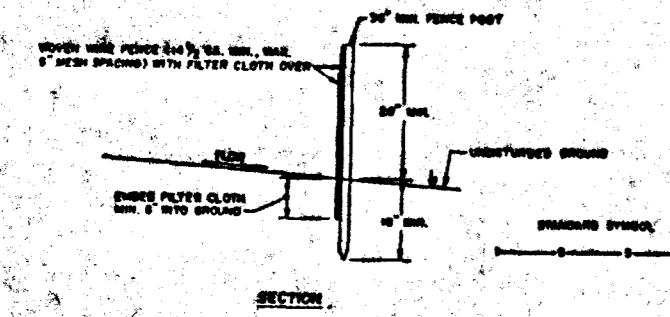
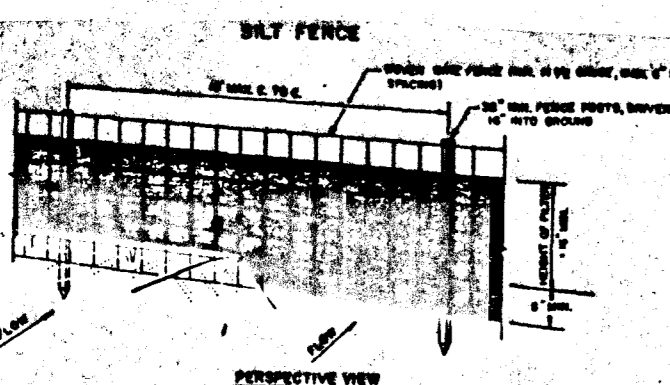
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Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.).

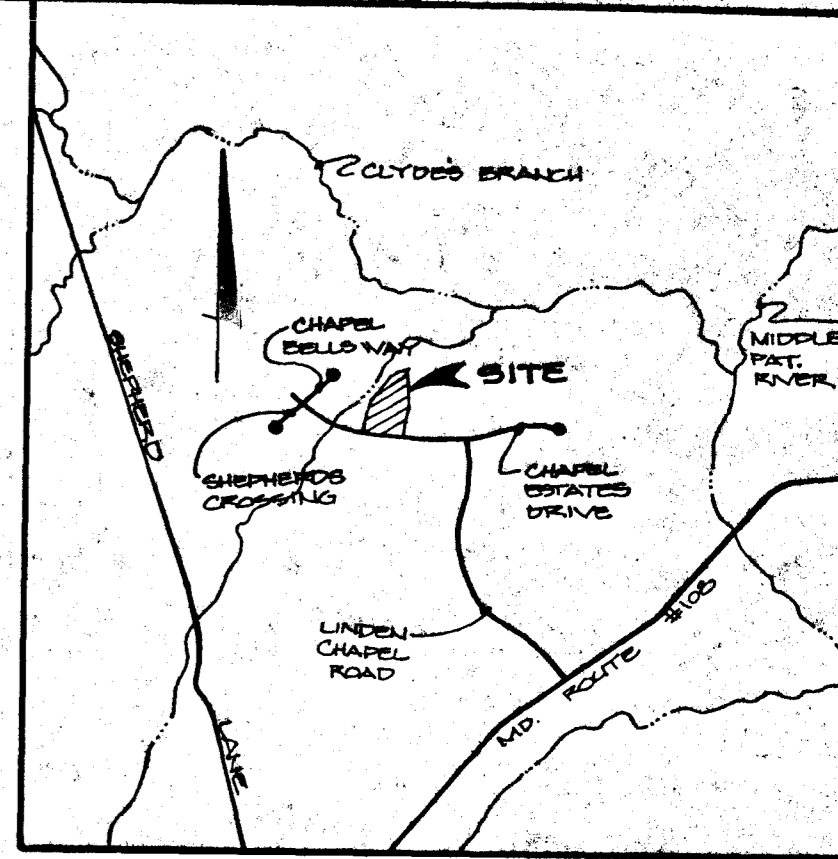
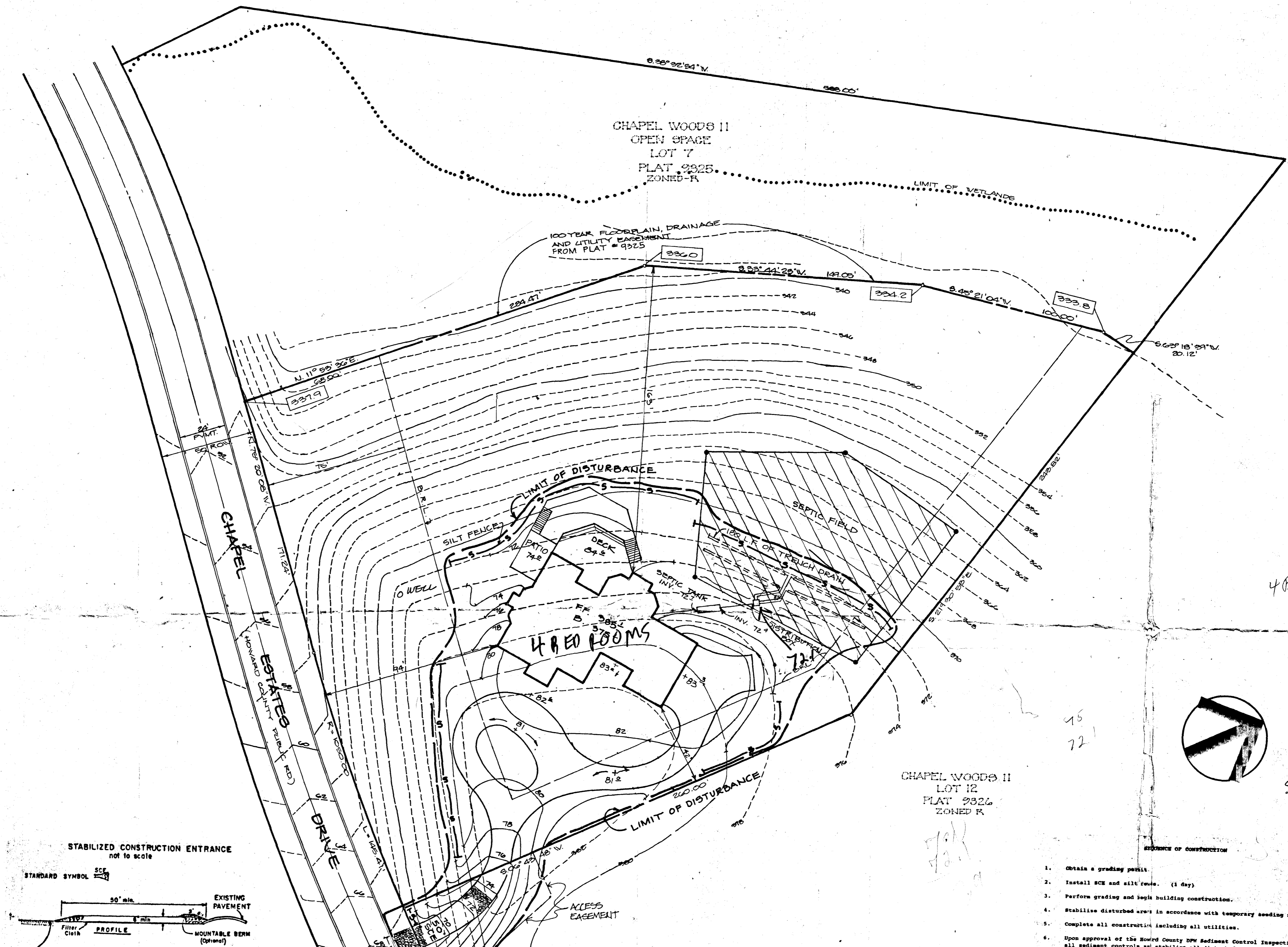
Seeding: For the period March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseeding.



1. Filter cloth to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to stone fill with wire ties or staples every 2' at top and mid section.
3. The bottom of filter cloth should be secured to ground with 1/2" x 1/2" x 1/2" wire ties or staples every 6 inches and folded.
4. Maintenance shall be provided to remove sediment from the silt fence.



VICINITY MAP
SCALE: 1" = 2000'

SETBACK CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 HARTLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redisturbances, permanent or temporary stabilization shall be completed within all 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1. 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 HARTLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilizations with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grass.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis:

| | |
|------------------------------------|---------------|
| Total Area of Site | 0.045 acres |
| Area Disturbed | 0.05 acres |
| Area to be roofed or paved | 0.12 acres |
| Area to be vegetatively stabilized | 0.75 acres |
| Total Cut | 1250 Cu. yds. |
| Total Fill | 1250 Cu. yds. |
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard County Department of Public Works Sediment Control Inspector.
10. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
11. Sediment will be removed from traps when its depth reaches the 'clean out' elevation shown on the plans.
12. Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish reflect consideration of undercutting or removal of unsuitable material. The contractor shall familiarize himself with site conditions which may affect the work.

PLAN REVISED 8/15/01
SECRET LINES
516191
R. HODGES

1. Obtain a grading permit.
2. Install S.C.E. and silt fence. (1 day)
3. Perform grading and begin building construction.
4. Stabilize disturbed areas in accordance with temporary seeding notes.
5. Complete all construction including all utilities.
6. Upon approval of the Howard County DPW Sediment Control Inspector remove all sediment controls and stabilize all disturbed areas in accordance with the permanent seeding notes.

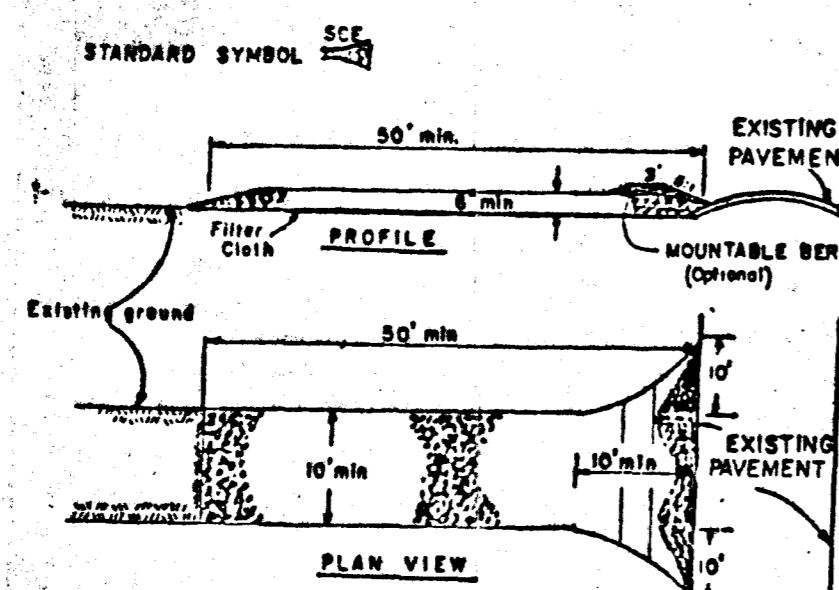
1. Trench shall be 2' wide.
2. Inlet to trenches shall be 2' below grade.
3. Bottom of trench shall be max. 7' below grade.
4. Stone shall extend 4' below distribution pipe.
5. Septic tank shall be 55-gallon precast tank and shall conform to Howard County plumbing codes.
6. Distribution box shall be precast box conforming to Howard County plumbing code requirements.
7. No trench to exceed 100' in length.
8. Trenches to be installed on level ground.

Note: Basement sewerability is limited.

LEGEND

- S - S - SILT FENCE
- S.C.E. - STABILIZED CONSTRUCTION ENTRANCE
- --- LIMIT OF DISTURBANCE
- B.R.L. - BUILDING RESTRICTION LINE

STABILIZED CONSTRUCTION ENTRANCE
not to scale



CONSTRUCTION SPECIFICATIONS

1. Stone Size - One (1) size of stone, or crushed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) feet minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

| DATE | NO. | REVISION |
|------|-----|----------|
| | | |

OWNER
MR. & MRS. DAVID DRESNER
10065 COTTON MILL LANE
COLUMBIA, MD, 21046
(301) 730 2272

PROJECT:
CHAPEL WOODS II LOT 13
AREA TAX MAP 29 PAR. 26, 86, 282, 347
5th ELECTION DISTRICT
HOWARD CO., MD.

TITLE:
PLOT PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

| DATE | DESIGNED BY: | DRAWN BY: | PROJECT NO.: | DATE: | SCALE: | DRAWING NO.: |
|------|--------------|-----------|--------------|----------------|----------|--------------|
| | LJA | ZK | 77400 | MARCH 20, 1991 | 1" = 30' | 1 OF 1 |